



**Analytical Resources, LLC**  
Analytical Chemists and Consultants

02 June 2023

Ali Judkins  
Anchor QEA, LLC  
1201 3rd Ave, Suite 2600  
Seattle, WA 98101

RE: AOC5 MR Phase 1

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

|                                 |                             |
|---------------------------------|-----------------------------|
| <u>Associated Work Order(s)</u> | <u>Associated SDG ID(s)</u> |
| 23A0179                         | N/A                         |

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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclosed Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

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Analytical Resources, LLC

Susan Dunninghoo, Director, Client Services

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*





1 of 1

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3495

Project/Client Name: AOCS MR Ph 1  
 Project Number: 210075.01.02  
 Contact Name: Amara Vandervort  
 Sampled By: Windward

Ship to: ARL  
 Attn: Sue Dunahoo  
 Shipper: corner  
 Form filled out by: K. McPaele  
 Shipping Date: 1/10/23  
 Airbill Number: ---  
 Turnaround requested: std.

| Sample Collection Date (m/d/y) | Time | Sample Identification | Volume of Sample / # of Containers | Matrix  | Test(s) Requested (check test(s) required) |     |      |            |                    |     |         | Comments / Instructions (Jar tag number(s)) |
|--------------------------------|------|-----------------------|------------------------------------|---|--|-----|------|------------|--------------------|-----|---------|---|
|                                |      |                       |                                    |   | PCBS                                       | SMS | SVCS | SMS metals | TPC / Total Solids | DIF | Archive |   |
| 1/10/23                        | 0824 | LW23-SS1277           | 4                                  | Sediment  | X  | X   | X    | X          | NA                 | X   |         |   |
|                                | 0843 | -SS1271               |                                    |   | X  | X   | X    | X          | NA                 | X   |         |   |
|                                | 0904 | -SS1266               |                                    |   | X  | X   | X    | X          | NA                 | X   |         |   |
|                                | 0920 | -SS1248               |                                    |   | X  | X   | X    | X          | NA                 | X   |         |   |
|                                | 0935 | -SS1239               |                                    |   | X  | X   | X    | X          | NA                 | X   |         |   |
|                                | 0954 | -SS1213               |                                    |   | X  | X   | X    | X          | NA                 | X   |         |   |
|                                | 1010 | -SS1200               |                                    |   | X  | X   | X    | X          | NA                 | X   |         |   |
|                                | 1056 | -SS1178               |                                    |   | X  | X   | X    | X          | NA                 | X   |         |   |
|                                | 1108 | -SS1171               |                                    |   | X  | X   | X    | X          | NA                 | X   |         |   |
|                                | 1128 | -SS1112               |                                    |   | X  | X   | X    | X          | NA                 | X   |         |   |
|                                | 1156 | -SS1039               |                                    |   | X  | X   | X    | X          | NA                 | X   |         |   |
|                                | 1248 | -SS1007               |                                    |   | X  | X   | X    | X          | NA                 | X   |         |   |
| Total Number of Containers     |      |                       | 48                                 | Purchase Order / Statement of Work # <u>APT-110222-AOCS-ARL</u> |  |     |      |            |                    |     |         |   |

|  |  |   |   |
|--|--|---|---|
| 1) Released by: <u>Amara Vandervort</u><br>Print name: <u>Amara Vandervort</u><br>Signature: <u>[Signature]</u><br>Company: <u>Windward</u><br>Date/Time: <u>1/10/23</u> | 1) Rec'd by: <u>YARED</u><br>Print name: <u>YARED</u><br>Signature: <u>[Signature]</u><br>Company: <u>YA YA SAFETY</u><br>Date/Time: <u>01/10/23</u> | 2) Released by: <u>[Signature]</u><br>Print name: <u>YARED</u><br>Signature: <u>[Signature]</u><br>Company: <u>YA YA SAFETY</u><br>Date/Time: <u>01/10/23 17:10</u> | 2) Rec'd by: <u>Jacob Walter</u><br>Print name: <u>Jacob Walter</u><br>Signature: <u>[Signature]</u><br>Company: <u>AR, LLC</u><br>Date/Time: <u>01/10/23 17:10</u> |
|--|--|---|---|

\* Distribution: White copies accompany shipment; yellow retained by consignee.



200 1st Ave W, Suite 500  
Seattle, WA 98119

206.378.1364

To be completed by Laboratory upon sample receipt:

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Date of receipt: <u>1/10/23</u>     | Laboratory W.O. #: <u>23A0179</u> |
| Condition upon receipt: <u>good</u> | Time of receipt: <u>17:10</u>     |
| Cooler temperature: <u>3.90C</u>    | Received by: <u>Jacob Walter</u>  |



# Cooler Receipt Form

ARI Client: Ancher  
 COC No(s): 3495 NA  
 Assigned ARI Job No: 23 A0179

Project Name: AOC5 MR Phase 1  
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: \_\_\_\_\_  
 Tracking No: \_\_\_\_\_ NA

**Preliminary Examination Phase:**

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO  
 Were custody papers included with the cooler? ..... YES NO  
 Were custody papers properly filled out (ink, signed, etc.) ..... YES NO  
 Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1700 5.7 3.1 (3.9)  
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 7009708

Cooler Accepted by: TS Date: 11/10/23 Time: 1700

**Complete custody forms and attach all shipping documents**

**Log-In Phase:**

Was a temperature blank included in the cooler? ..... YES NO  
 What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: \_\_\_\_\_  
 Was sufficient ice used (if appropriate)? ..... NA YES NO  
 How were bottles sealed in plastic bags? ..... Individually Grouped Not  
 Did all bottles arrive in good condition (unbroken)? ..... YES NO  
 Were all bottle labels complete and legible? ..... YES NO  
 Did the number of containers listed on COC match with the number of containers received? ..... YES NO  
 Did all bottle labels and tags agree with custody papers? ..... YES NO  
 Were all bottles used correct for the requested analyses? ..... YES NO  
 Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO  
 Were all VOC vials free of air bubbles? ..... NA YES NO  
 Was sufficient amount of sample sent in each bottle? ..... YES NO  
 Date VOC Trip Blank was made at ARI..... NA  
 Were the sample(s) split by ARI? NA YES Date/Time: \_\_\_\_\_ Equipment: \_\_\_\_\_ Split by: \_\_\_\_\_

Samples Logged by: PFB Date: 11/10/23 P2B Time: 8:31 Labels checked by: \_\_\_\_\_

**\*\* Notify Project Manager of discrepancies or concerns \*\***

| Sample ID on Bottle | Sample ID on COC | Sample ID on Bottle | Sample ID on COC |
|---------------------|------------------|---------------------|------------------|
|                     |                  |                     |                  |
|                     |                  |                     |                  |
|                     |                  |                     |                  |

**Additional Notes, Discrepancies, & Resolutions:**

By: \_\_\_\_\_ Date: \_\_\_\_\_



Anchor QEA, LLC

1201 3rd Ave, Suite 2600

Seattle, WA 98101

Project: AOC5 MR Phase 1

Project Number: 210075-01.02

Project Manager: Ali Judkins

**Reported:**

06/02/2023 10:08

**ANALYTICAL REPORT FOR SAMPLES**

| Laboratory ID | Sample ID    | Matrix | Date Sampled   | Date Received  |
|---------------|--------------|--------|----------------|----------------|
| 23A0179-01    | LDW23-SS1277 | Solid  | 01/10/23 08:24 | 01/10/23 17:10 |
| 23A0179-02    | LDW23-SS1271 | Solid  | 01/10/23 08:43 | 01/10/23 17:10 |
| 23A0179-03    | LDW23-SS1266 | Solid  | 01/10/23 09:04 | 01/10/23 17:10 |
| 23A0179-04    | LDW23-SS1248 | Solid  | 01/10/23 09:20 | 01/10/23 17:10 |
| 23A0179-05    | LDW23-SS1239 | Solid  | 01/10/23 09:35 | 01/10/23 17:10 |
| 23A0179-06    | LDW23-SS1213 | Solid  | 01/10/23 09:54 | 01/10/23 17:10 |
| 23A0179-07    | LDW23-SS1200 | Solid  | 01/10/23 10:10 | 01/10/23 17:10 |
| 23A0179-08    | LDW23-SS1178 | Solid  | 01/10/23 10:56 | 01/10/23 17:10 |
| 23A0179-09    | LDW23-SS1171 | Solid  | 01/10/23 11:08 | 01/10/23 17:10 |
| 23A0179-10    | LDW23-SS1112 | Solid  | 01/10/23 11:28 | 01/10/23 17:10 |
| 23A0179-11    | LDW23-SS1039 | Solid  | 01/10/23 11:56 | 01/10/23 17:10 |
| 23A0179-12    | LDW23-SS1007 | Solid  | 01/10/23 12:48 | 01/10/23 17:10 |





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Project: AOC5 MR Phase 1  
Project Number: 210075-01.02  
Project Manager: Ali Judkins

Reported:  
02-Jun-2023 10:08

## Case Narrative

**Client:** Anchor QEA, LLC  
**Project:** AOC5 MR Phase 1  
**Work Order:** 23A0179

*Revised 06/01/2023 to include a reanalysis of sample LDW23-SS1112 for aroclors.*

### Sample receipt

Samples as listed on the preceding page were received 10-Jan-2023 17:10 under ARI work order 23A0179. For details regarding sample receipt, please refer to the Cooler Receipt Form. Samples were frozen on receipt to preserve holding times.

Per client request, sample LDW23-SS1112 was re-extracted to attempt to report at a lesser dilution than provided in the original report.

### Semivolatiles - EPA Method SW8270E

The sample(s) were extracted and analyzed within the recommended holding times for samples stored frozen. The initial extraction batch BLA0557 did not pass QC requirements and were approaching the 40-day holding time, and the samples were reextracted in batch BLC0442.

Initial and continuing calibrations were within method requirements, with accepted excursions outside the 20% window. Associated positive results have been "Q"-flagged.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The batch BLC0442 method blank(s) were clean at the reporting limits and was rerun as part of instrument QC to start a sequence.

The batch BLC0442 blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits

The batch BLC0442 matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent difference (RPD) were within advisory control limits.

The reference material (SRM) percent recoveries were within control limits.

### Semivolatiles - EPA Method SW8270E-SIM

The sample(s) were extracted and analyzed within the recommended holding times for samples stored frozen. The initial extraction batch BLA0557 did not pass QC requirements and were approaching the 40-day holding time, and the samples were reextracted in batch BLC0442.

Initial and continuing calibrations were within method requirements, with accepted excursions outside the 20% window. Associated positive results have been "Q"-flagged.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The batch BLC0442 method blank(s) were clean at the reporting limits.



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Project Number: 210075-01.02  
Project Manager: Ali Judkins

Reported:  
02-Jun-2023 10:08

## Case Narrative

The batch BLC0442 blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits.

The batch BLC0442 matrix spike (MS) percent recovery for pentachlorophenol was high of advisory control limits. The relative percent difference (RPD) for 2,4-dimethylphenol was high of advisory control limits and flagged on the summary sheet.

The reference material (SRM) percent recoveries were within control limits.

### Pesticides - EPA Method SW8081B (Hexachlorobenzene)

The sample(s) were extracted and analyzed within the recommended holding times for samples stored frozen.

Initial and continuing calibrations were within method requirements. A PEM was not run to open the sequence. As the only target is hexachlorobenzene, no corrective action was required.

Internal standard areas were within limits.

The surrogate percent recoveries for decachlorobiphenyl were flagged NRS in sample LDW23-SC 1112 due to interference from the matrix.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits.

The matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent difference (RPD) were within advisory control limits.

### PCB Aroclors - EPA Method SW8082A

The sample(s) were extracted and analyzed within the recommended holding times for samples stored frozen.

Calibrations SLB0084-CCV5 and SLB0084-CCV7 were outside limits high on the ZB5 column, attributed to continual issues with the matrix affecting instrument performance. All results are reported from the ZB35 column as primary.

Tetrachloro-m-xylene (TCMX) was high of limits on both columns for SLB0084-CCV3. As TCMX is used only for evaluation of blow down efficiency and not required by the method, no corrective action was taken.

The internal standard hexabromobiphenyl (HBB) failed low on the ZB5 column for a number of samples, attributed to the sample matrix. Data is reported from the ZB35 column as primary.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits.

The matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent difference (RPD) were within advisory control limits.

The reference material (SRM) percent recoveries were within control limits.

Sample LDW23-SS1171 was diluted 1x5000 to bring response into the calibrated range of the instrument.



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Reported:

02-Jun-2023 10:08

## Case Narrative

Sample LDW23-SS1112 was diluted 1x100 due to the color and characteristics of the matrix. The sample was ND for aroclors at a high level, but due to the chromatography and response of the extract at 1x100, no runs were made at a lower dilution to avoid further damage to the analytical column.

The analyst noted carry-over from sample LDW23-SS1171, so a methylene chloride rinse was run after the sample to avoid carry-over issues with subsequent sample analyses.

The analyst noted identification of aroclors were made using the best possible fit, as there were miscellaneous interfering peaks throughout the runs.

Per client request, sample LDW23-SS1112 was reextracted from frozen volume in batch BLD0737 and analyzed without dilution. The associated QC was within control limits. The analyst noted low recovery of the internal standard hexabromobiphenyl in the BLD0737-MS and -MSD on the ZB5 column, and the sample appears to have high sulfur content interfering with recoveries. The baseline was raised to account for the sulfur peak, and the analyst noted again going with the best fit due to miscellaneous interfering peaks.

### **Total Metals - EPA Method 6020B**

The sample(s) were digested and analyzed within the recommended holding times for samples stored frozen.

Calibration SLD0127-CCV3 showed indium to be slightly noisy, SLD0127-CCB7 showed scandium and terbium slightly noisy. SLD0127-IFA and SLD0127-IFB1 showed chromium-35 high.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The matrix spike/matrix spike duplicate (MS/MSD) percent recoveries for silver were low of advisory control limits. The relative percent differences (RPD) were within advisory control limits.

The duplicate (DUP) relative percent difference (RPD) was high of advisory control limits for lead.

The post spike had acceptable recovery for all elements.

### **Total Mercury - EPA Method 7471B**

The sample(s) were digested and analyzed within the recommended holding times for samples stored frozen.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

The matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent difference (RPD) were within advisory control limits.

### **Wet Chemistry (Total Organic Carbon and Total Solids)**

The sample(s) were prepared and analyzed within the recommended holding times for samples stored frozen.



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Seattle WA, 98101

Project: AOC5 MR Phase 1  
Project Number: 210075-01.02  
Project Manager: Ali Judkins

**Reported:**  
02-Jun-2023 10:08

### **Case Narrative**

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The reference material (SRM) percent recoveries were within control limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.



## QUALIFIERS AND NOTES

| <u>Qualifier</u> | <u>Definition</u>   |
|------------------|---|
| U                | This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).                                       |
| Q                | Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20% RSD, <20% drift or minimum RRF) |
| P1               | The reported value is greater than 40% difference between the concentrations determined on two GC columns where applicable.                                     |
| NRS              | This surrogate not reported due to chromatographic interference   |
| M                | Estimated value for a GC/MS analyte detected and confirmed by an analyst but with low spectral match parameters.  |
| L                | Analyte concentration is $\leq 5$ times the reporting limit and the replicate control limit defaults to $\pm$ RL instead of 20% RPD                             |
| J                | Estimated concentration value detected below the reporting limit.   |
| H                | Hold time violation - Hold time was exceeded.   |
| D1               | Surrogate was not detected due to sample extract dilution   |
| D                | The reported value is from a dilution   |
| B                | This analyte was detected in the method blank.  |
| *                | Flagged value is not within established control limits.   |
| DET              | Analyte DETECTED  |
| ND               | Analyte NOT DETECTED at or above the reporting limit  |
| NR               | Not Reported  |
| dry              | Sample results reported on a dry weight basis   |
| RPD              | Relative Percent Difference   |





Form I  
ORGANIC ANALYSIS DATA SHEET  
EPA 8270E  
Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-01RE1 A

SDG: 23A0179

Sampled: 01/10/23 08:24

Prepared: 03/17/23 11:16

File ID: NT1003222310.D

% Solids: 58.98

Preparation: EPA 3546 (Microwave)

Analyzed: 03/22/23 22:49

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 16.98 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| CAS NO.  | COMPOUND                    | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|-----------------------------|----------|----------------------|---|------|------|
| 108-95-2 | Phenol                      | 1        | 797                  |   | 4.4  | 20.0 |
| 106-44-5 | 4-Methylphenol              | 1        | 89.1                 |   | 7.4  | 20.0 |
| 91-20-3  | Naphthalene                 | 1        | 9.1                  | J | 4.2  | 20.0 |
| 91-57-6  | 2-Methylnaphthalene         | 1        | 8.0                  | J | 4.5  | 20.0 |
| 208-96-8 | Acenaphthylene              | 1        | 20.0                 | U | 6.2  | 20.0 |
| 131-11-3 | Dimethylphthalate           | 1        | 20.0                 | U | 4.4  | 20.0 |
| 83-32-9  | Acenaphthene                | 1        | 6.3                  | J | 5.2  | 20.0 |
| 132-64-9 | Dibenzofuran                | 1        | 20.0                 | U | 14.1 | 20.0 |
| 86-73-7  | Fluorene                    | 1        | 20.0                 | U | 14.5 | 20.0 |
| 85-01-8  | Phenanthrene                | 1        | 43.1                 |   | 8.7  | 20.0 |
| 120-12-7 | Anthracene                  | 1        | 17.9                 | J | 7.2  | 20.0 |
| 206-44-0 | Fluoranthene                | 1        | 93.5                 |   | 6.1  | 20.0 |
| 129-00-0 | Pyrene                      | 1        | 114                  |   | 5.7  | 20.0 |
| 85-68-7  | Butylbenzylphthalate        | 1        | 16.9                 | J | 9.4  | 20.0 |
| 56-55-3  | Benzo(a)anthracene          | 1        | 52.9                 |   | 6.0  | 20.0 |
| 218-01-9 | Chrysene                    | 1        | 71.8                 |   | 6.1  | 20.0 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate  | 1        | 88.0                 |   | 5.5  | 49.9 |
|          | Benzo(a)fluoranthene, Total | 1        | 161                  |   | 10.0 | 39.9 |
| 50-32-8  | Benzo(a)pyrene              | 1        | 61.9                 |   | 4.2  | 20.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene      | 1        | 38.1                 |   | 14.6 | 20.0 |
| 53-70-3  | Dibenzo(a,h)anthracene      | 1        | 20.0                 | U | 17.2 | 20.0 |
| 191-24-2 | Benzo(g,h,i)perylene        | 1        | 42.7                 |   | 13.6 | 20.0 |

| SURROGATES             | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol         | 748.89                | 524                   | 70.0  | 27 - 120  |   |
| Phenol-d5              | 748.89                | 550                   | 73.4  | 29 - 120  |   |
| 2-Chlorophenol-d4      | 748.89                | 576                   | 76.9  | 31 - 120  |   |
| 1,2-Dichlorobenzene-d4 | 499.26                | 362                   | 72.4  | 32 - 120  |   |
| Nitrobenzene-d5        | 499.26                | 381                   | 76.2  | 30 - 120  |   |
| 2-Fluorobiphenyl       | 499.26                | 413                   | 82.7  | 35 - 120  |   |



**Form I**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8270E**  
**Semivolatiles (20ug/kg - 0.2ug/L SepF)**

Laboratory: Analytical Resources, LLC  
 Client: Anchor OEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment  
 Sampled: 01/10/23 08:24  
 % Solids: 58.98  
 Batch: BLC0442  
 Instrument: NT10  
 Cleanups: GPC

Laboratory ID: 23A0179-01RE1 A  
 Prepared: 03/17/23 11:16  
 Preparation: EPA 3546 (Microwave)  
 Sequence: SLC0397  
 Column: ZB-5MSi

SDG: 23A0179  
 File ID: NT1003222310.D  
 Analyzed: 03/22/23 22:49  
 Initial/Final: 16.98 g Wet / 1 mL  
 Calibration: GC00046

| SURROGATES           | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------|-----------------------|-----------------------|-------|-----------|---|
| 2,4,6-Tribromophenol | 748.89                | 871                   | 116   | 24 - 134  | Q |
| p-Terphenyl-d14      | 499.26                | 399                   | 79.9  | 37 - 120  |   |

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222310.D

Date: 22-MAR-2023 22:49

Client ID:

Sample Info: 23A0179-01REL

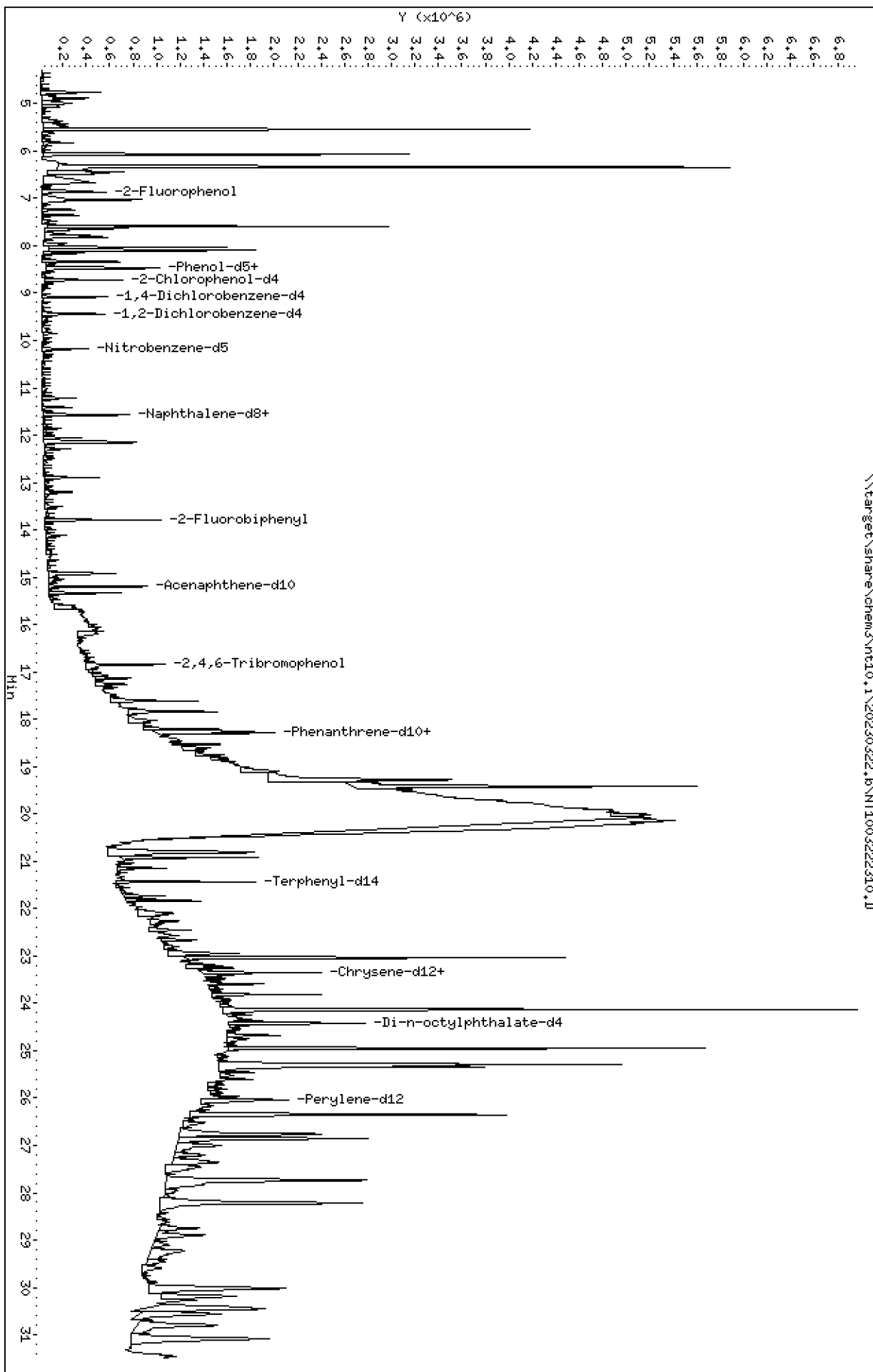
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

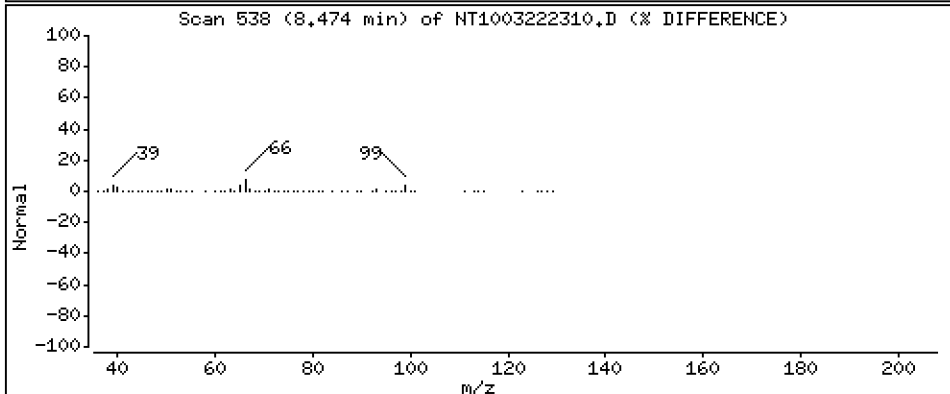
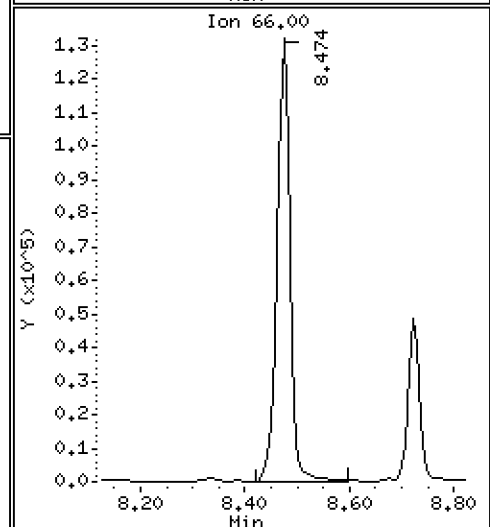
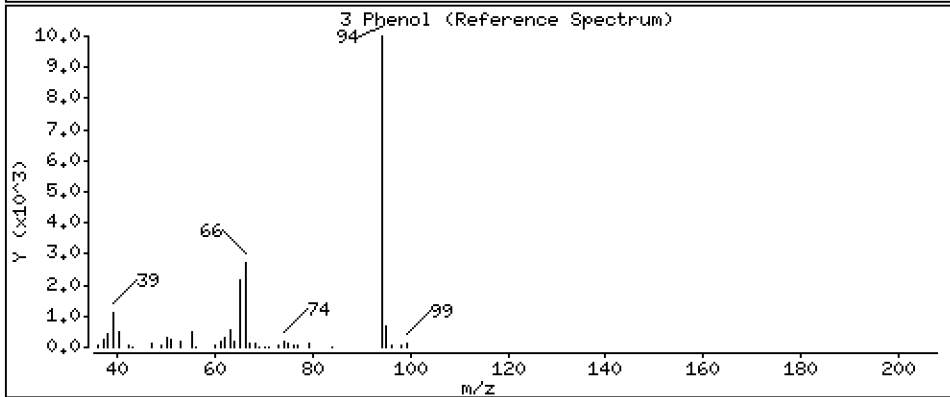
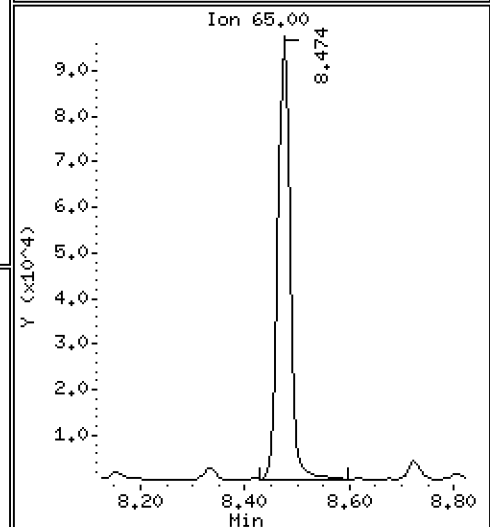
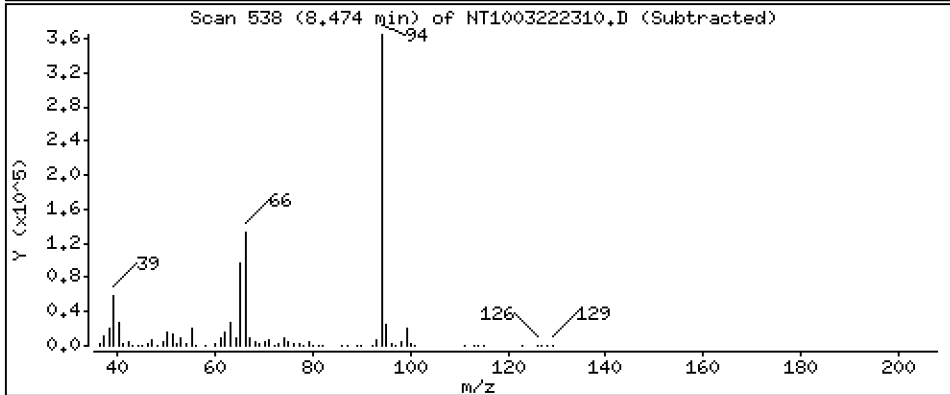
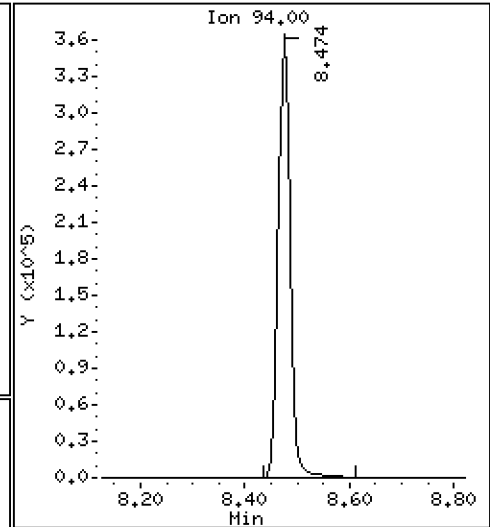
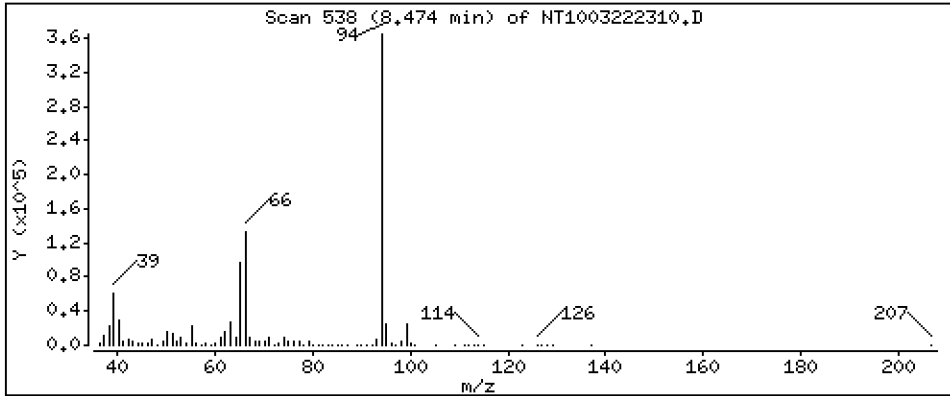
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 7,982 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

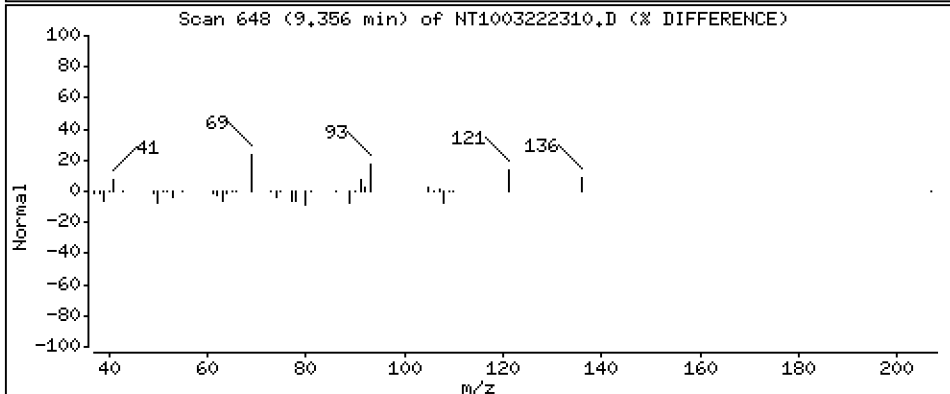
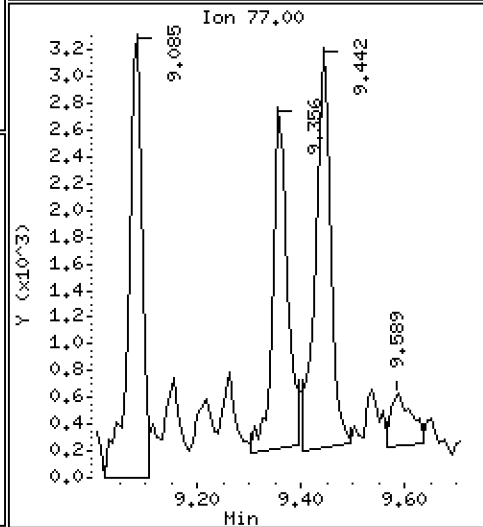
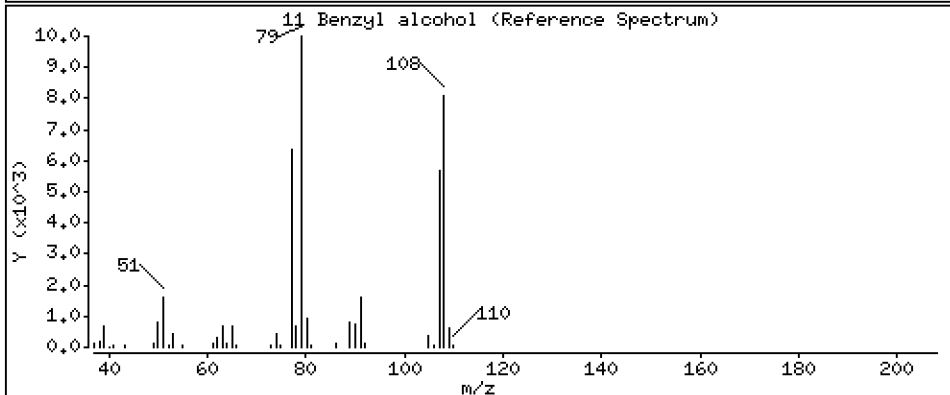
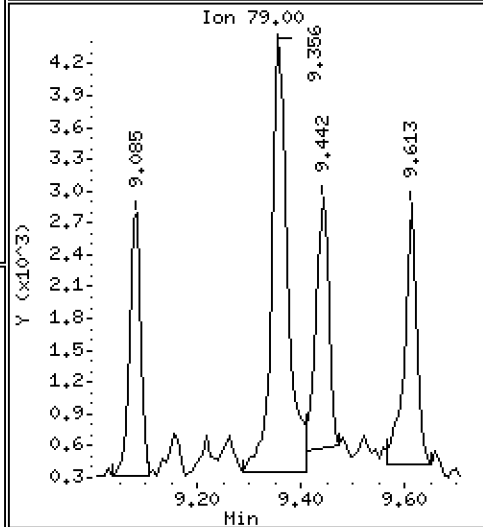
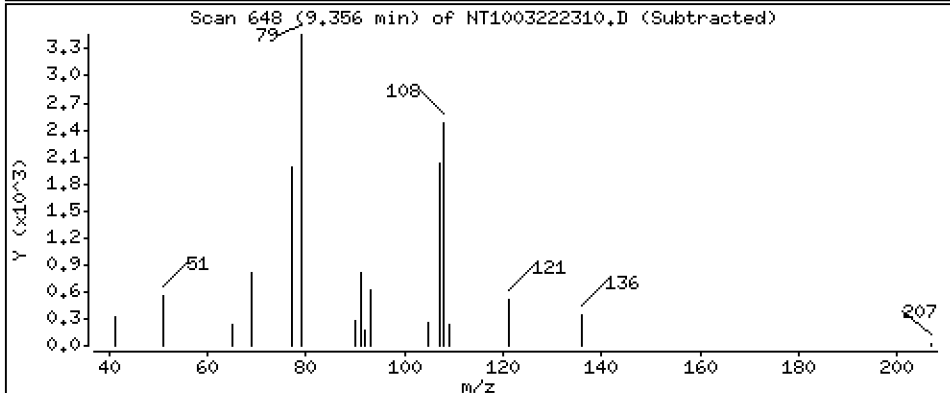
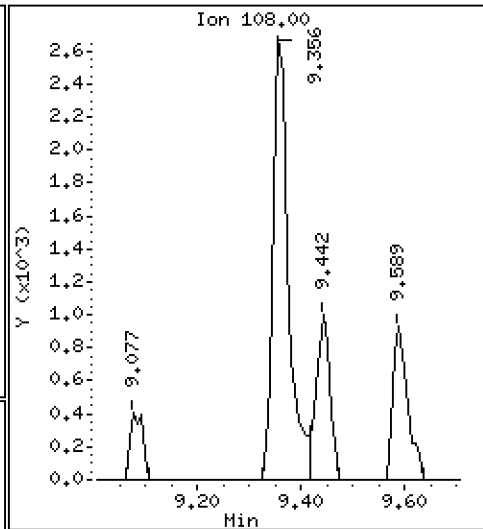
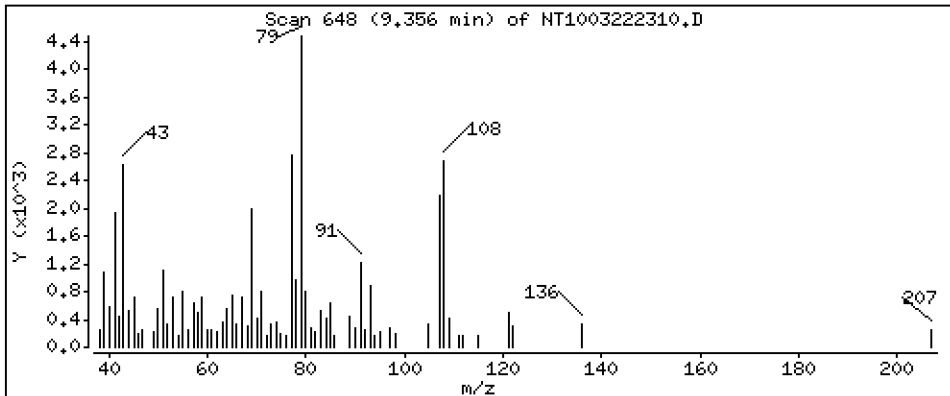
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1668 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

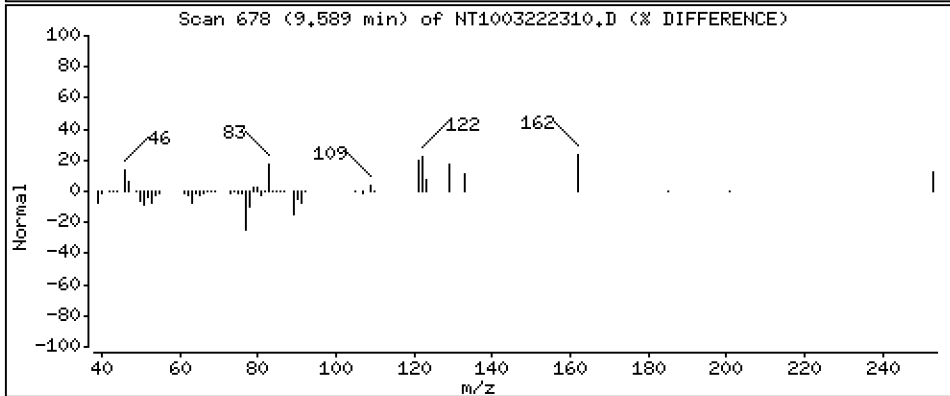
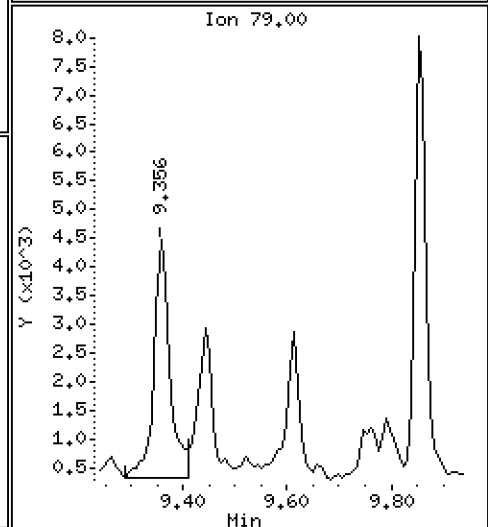
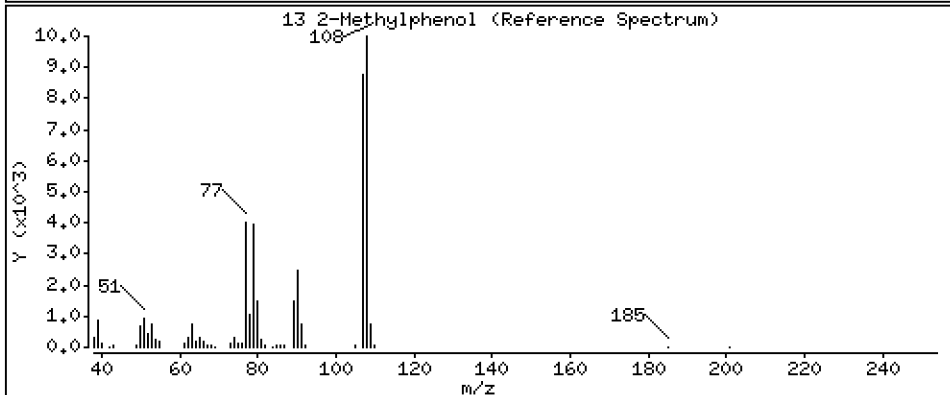
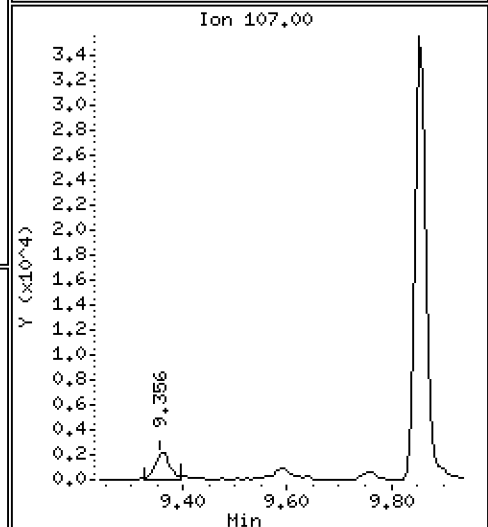
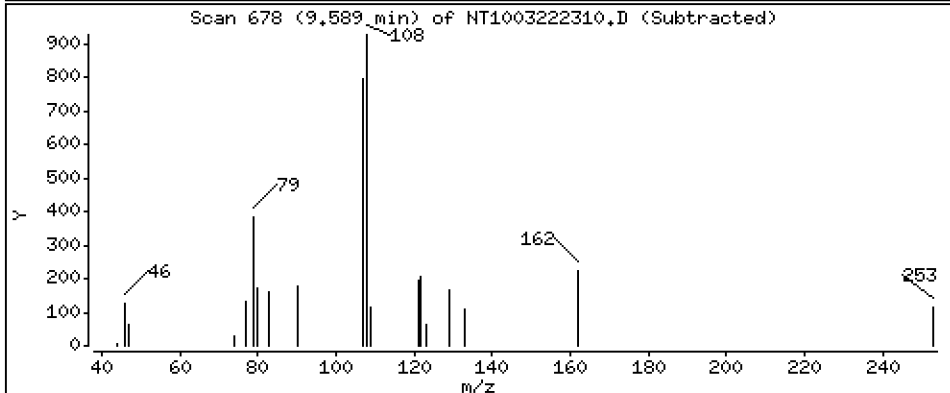
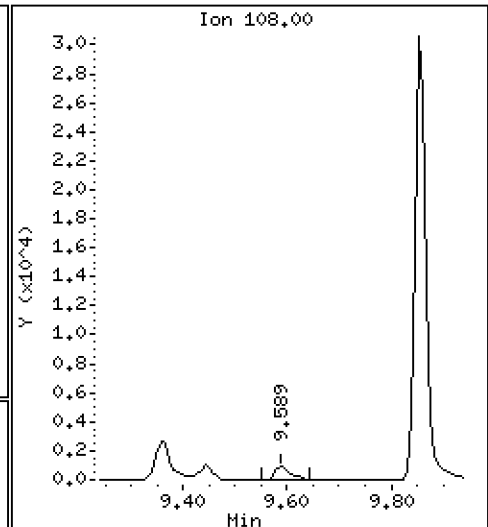
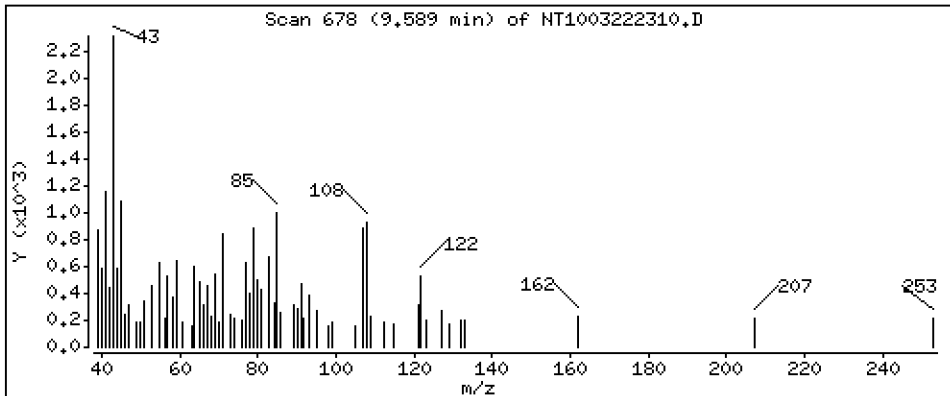
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 0,03499 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

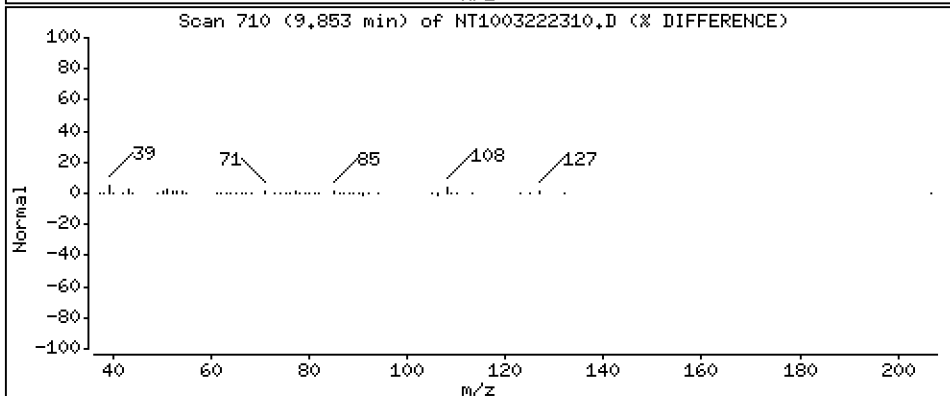
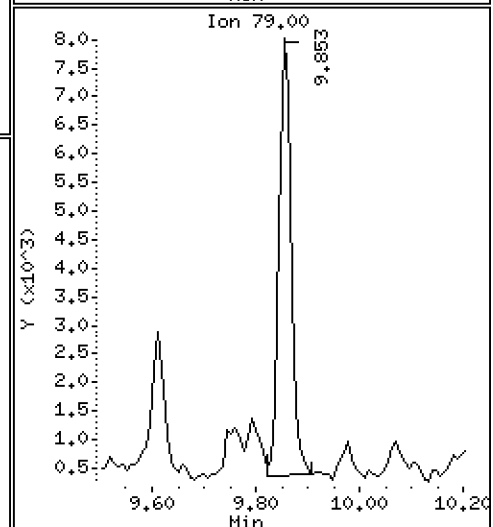
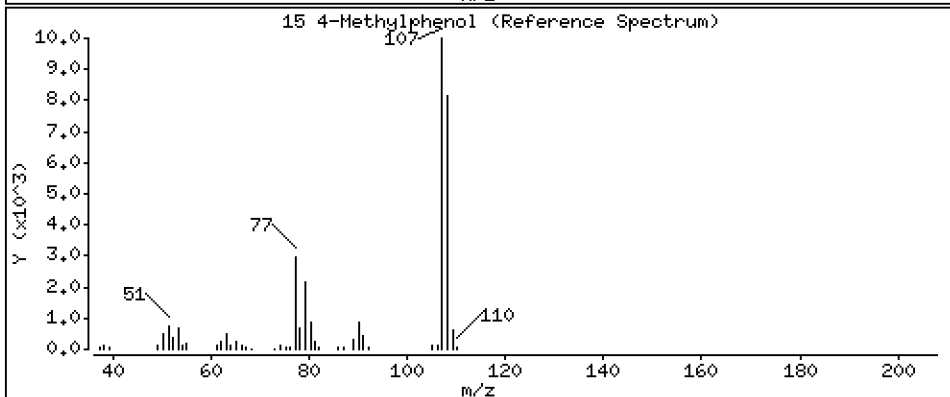
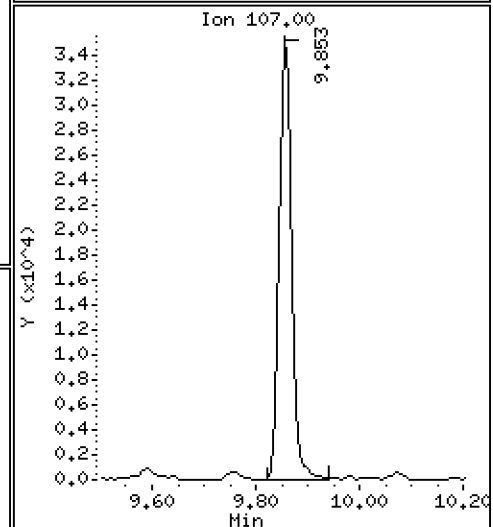
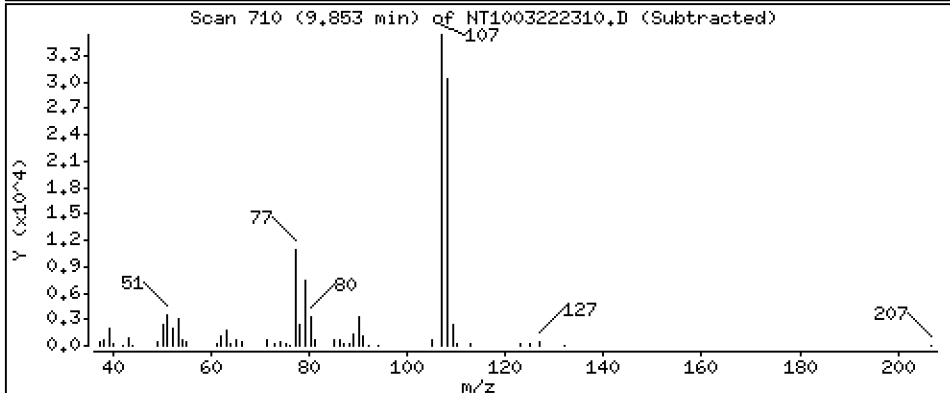
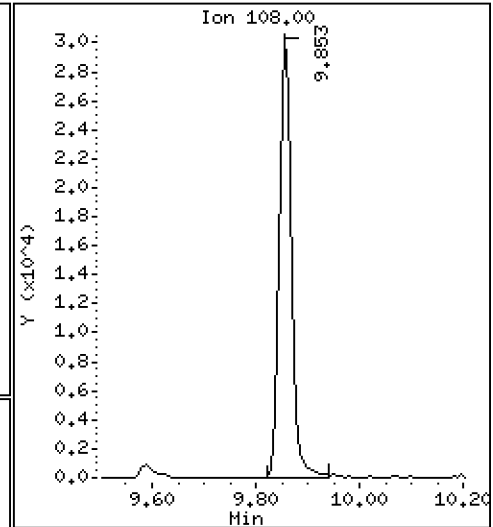
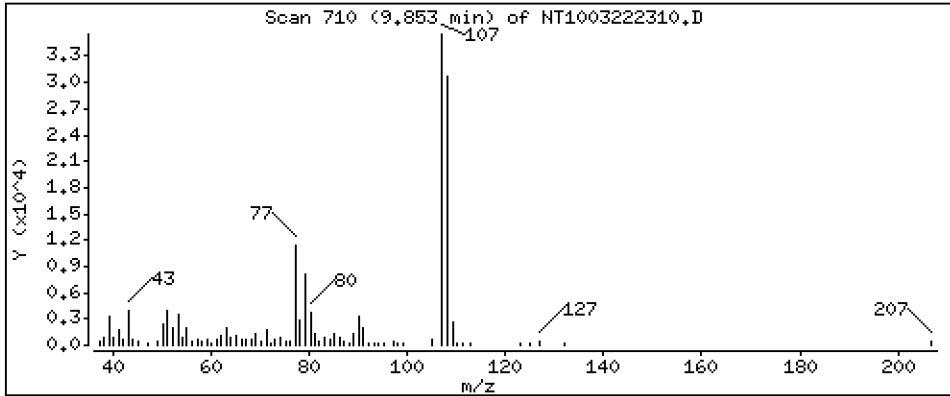
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.8919 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

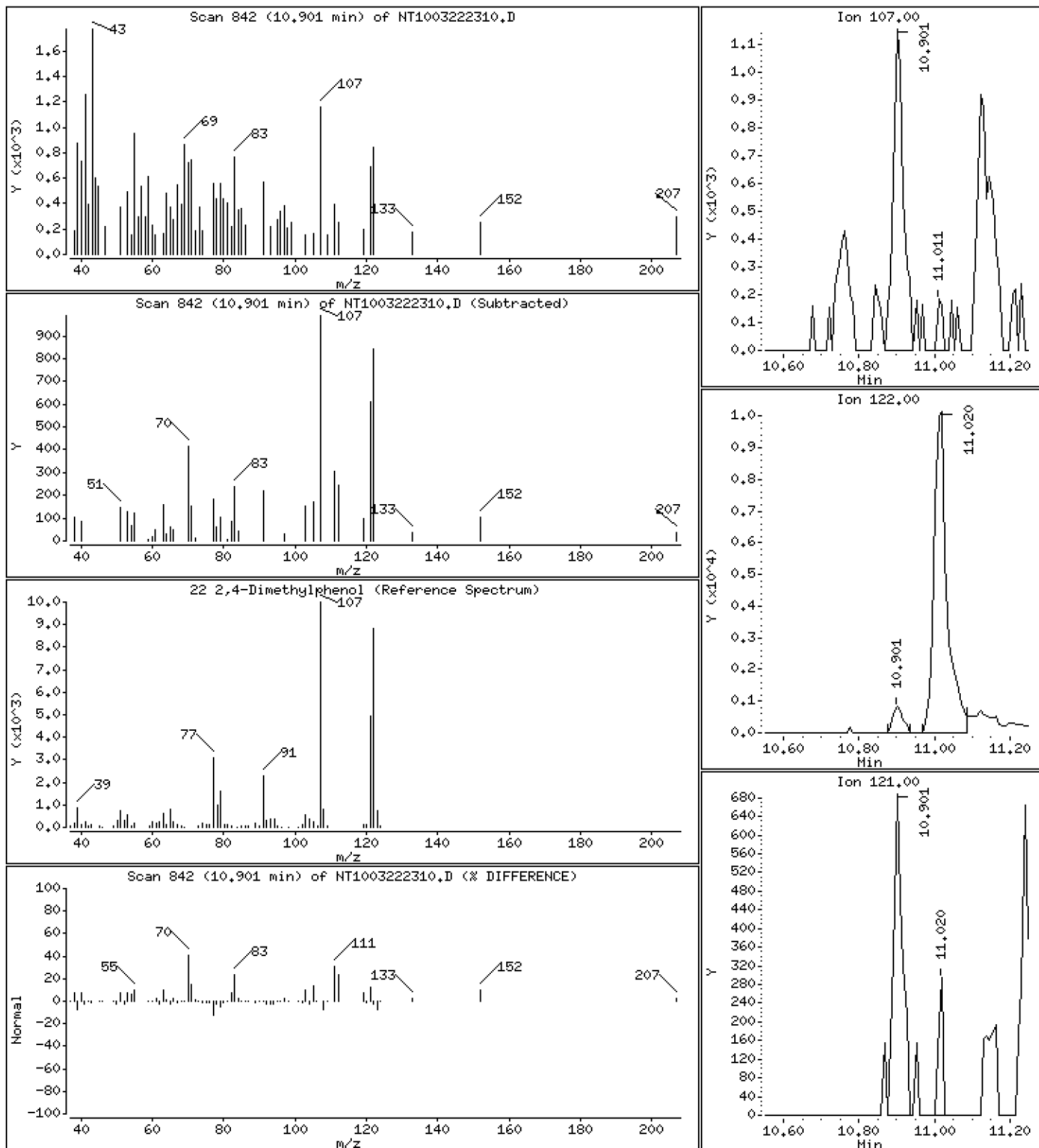
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 0.04056 ug/mL





Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

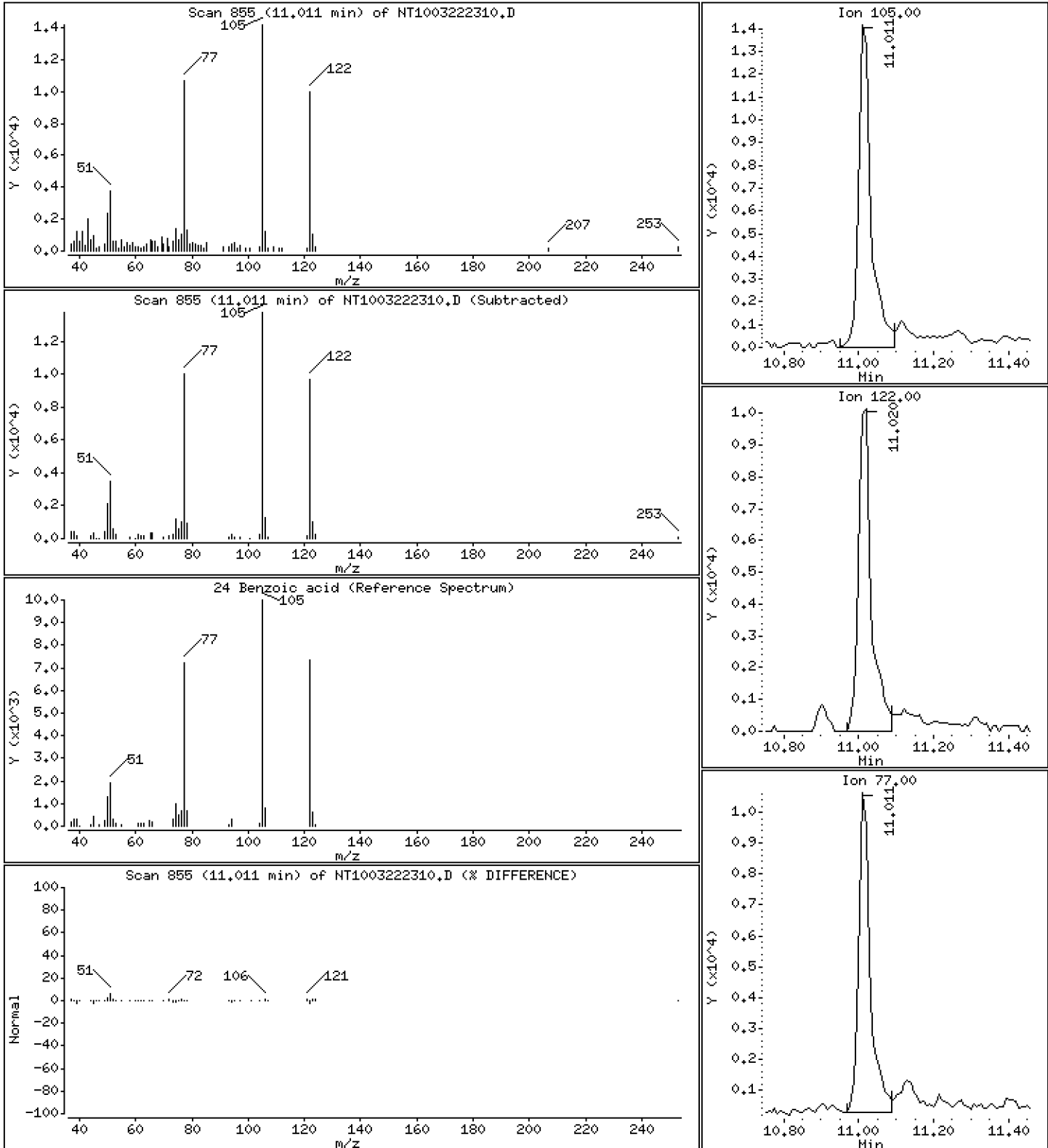
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 1,110 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

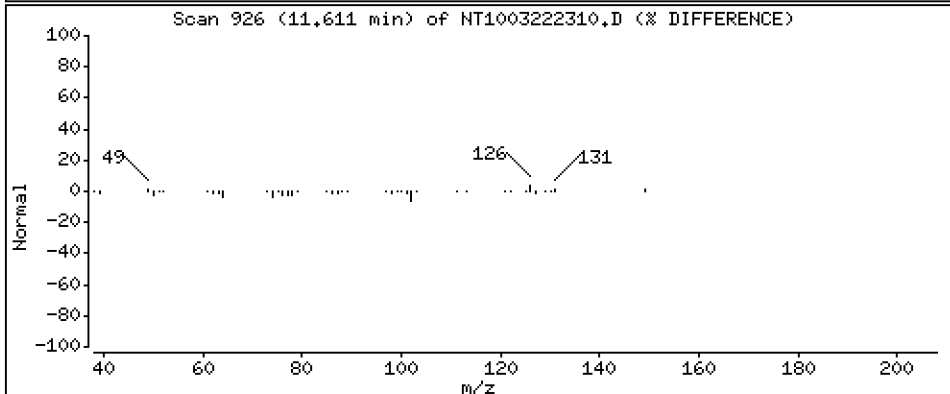
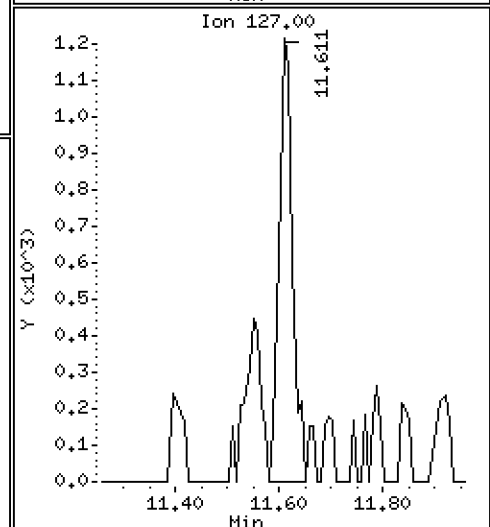
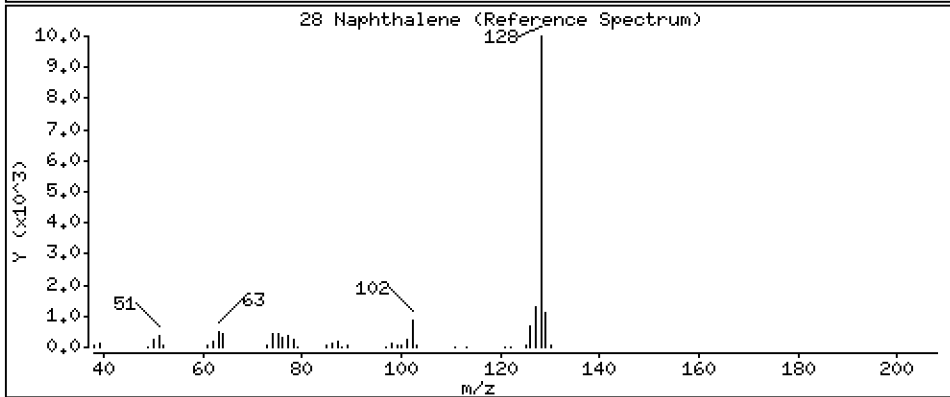
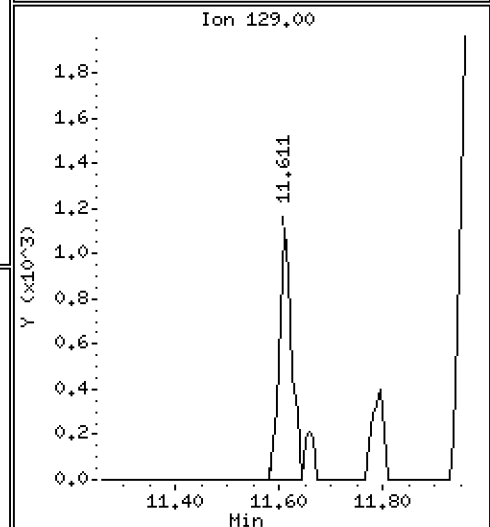
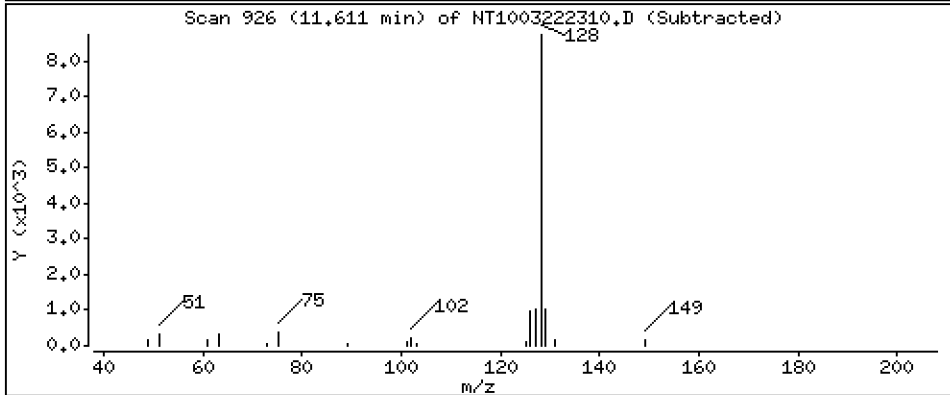
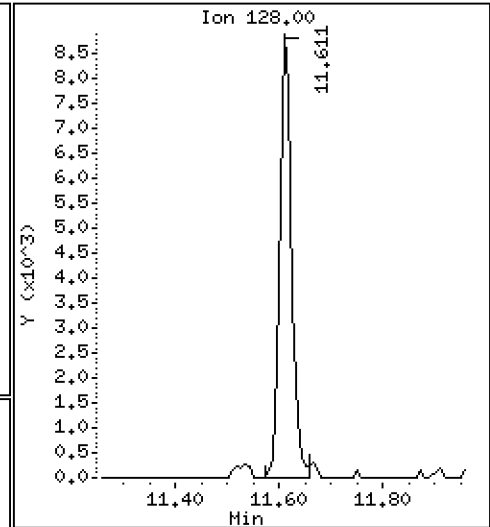
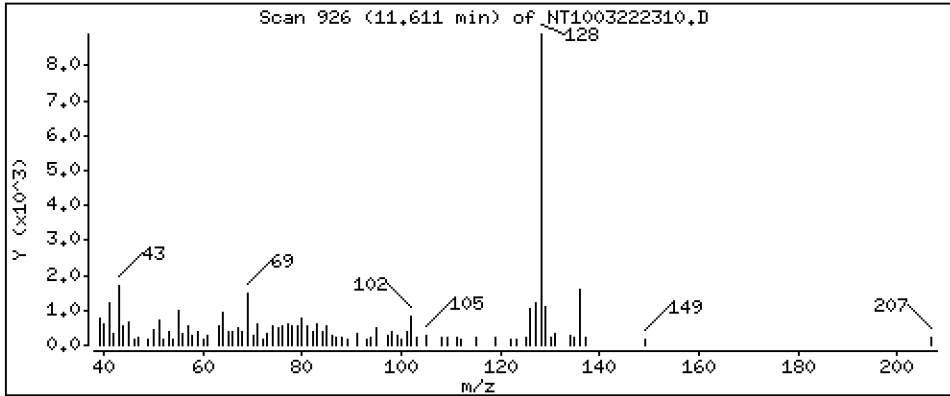
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 0.09078 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

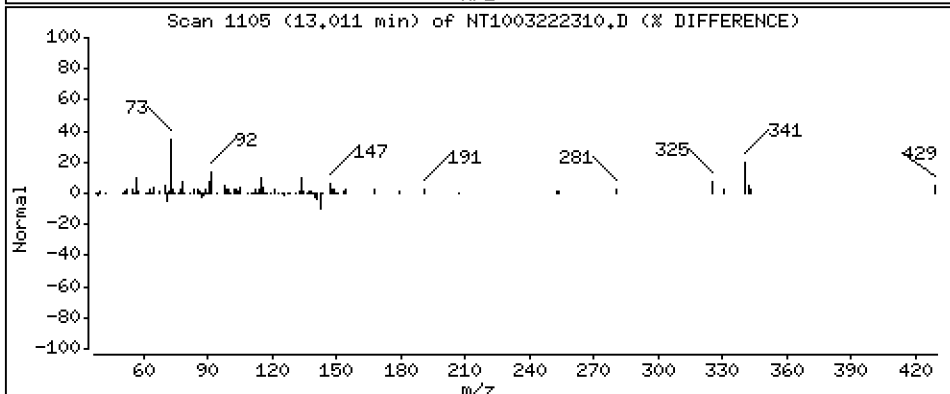
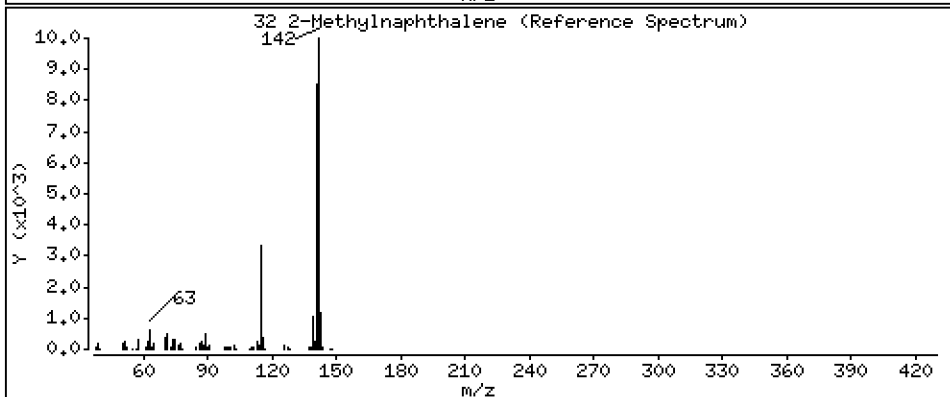
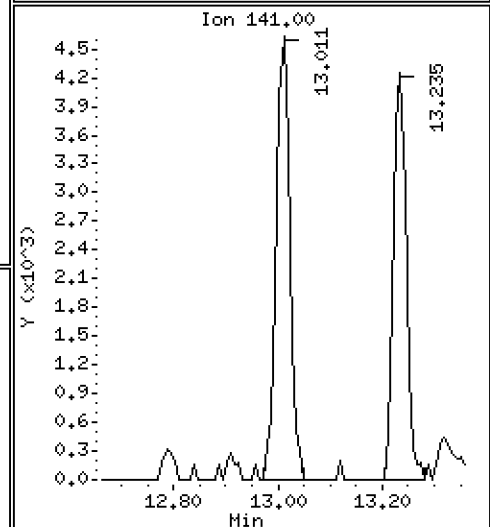
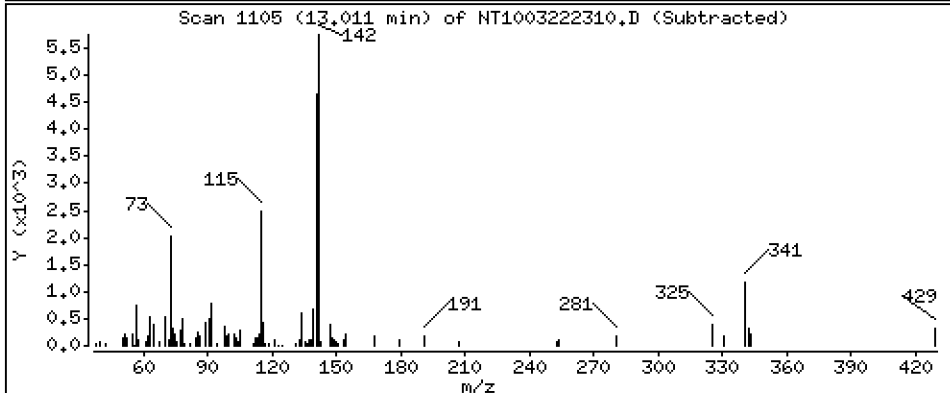
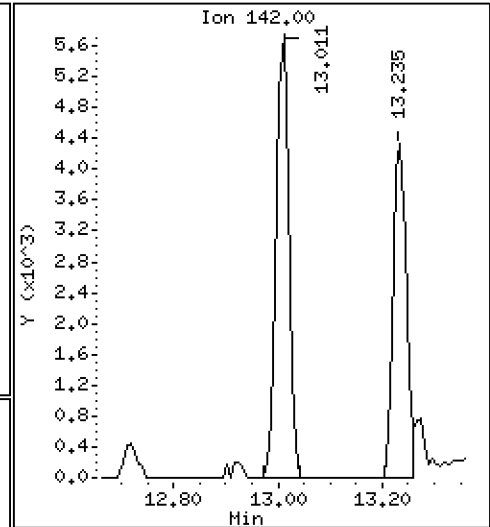
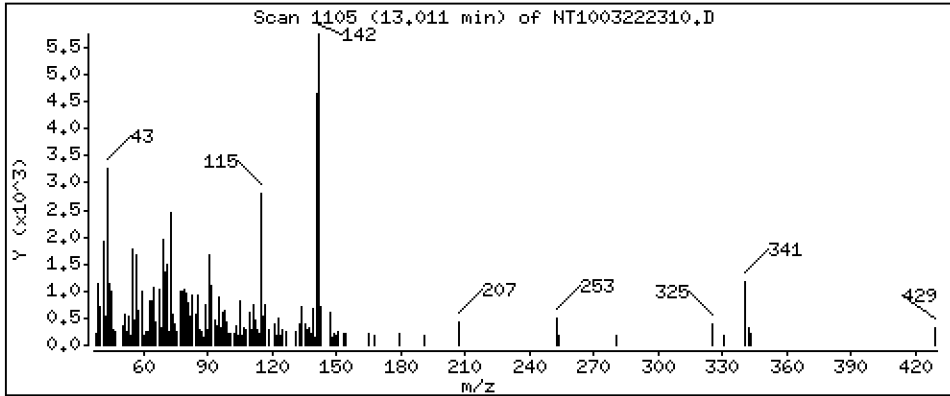
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,08054 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

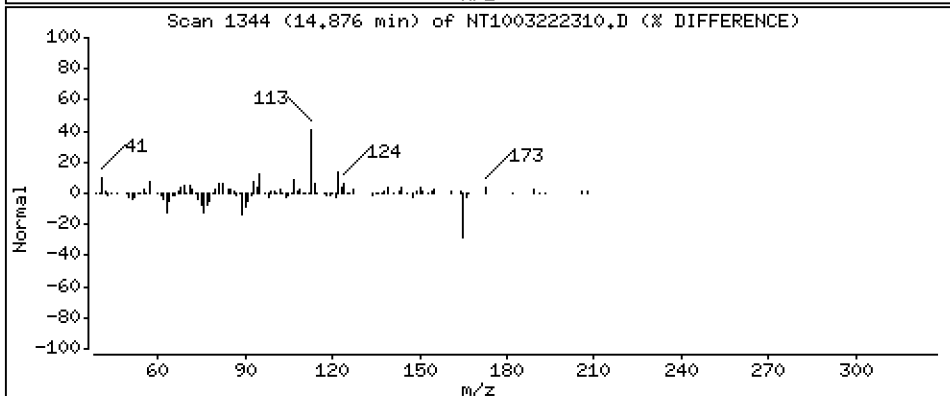
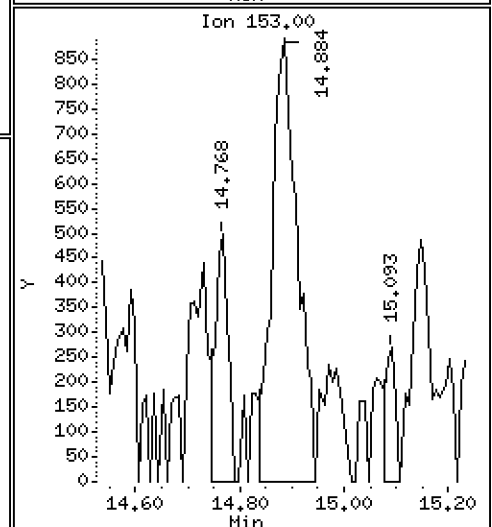
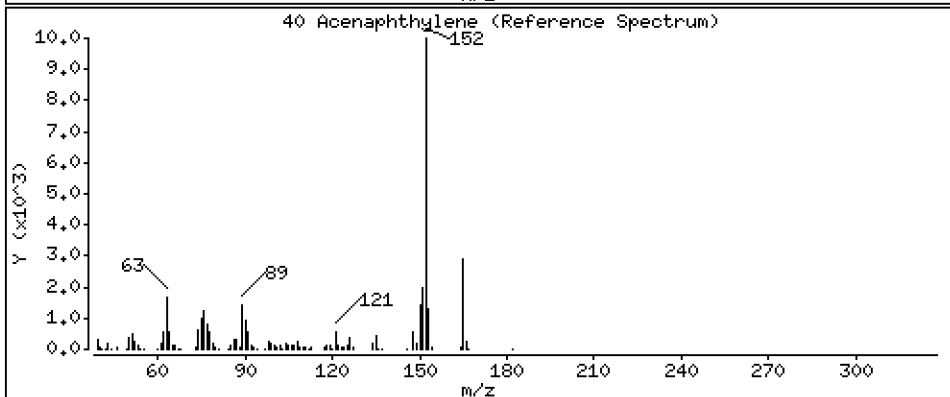
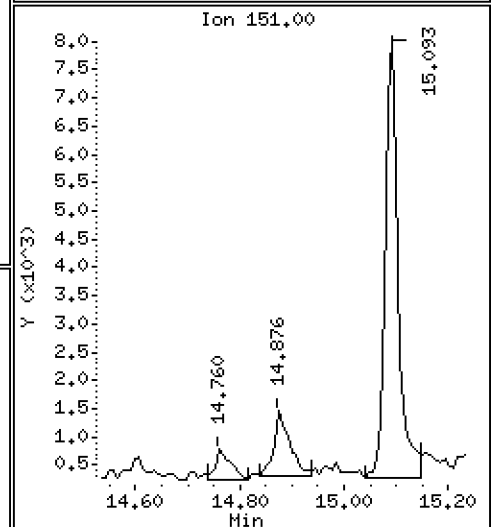
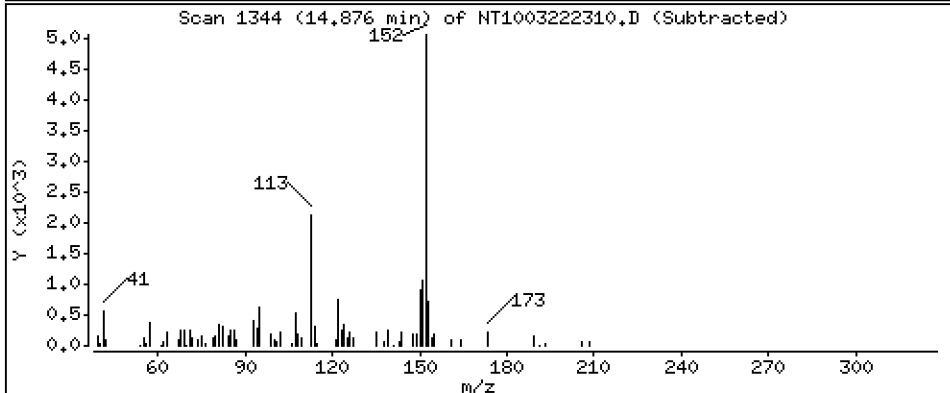
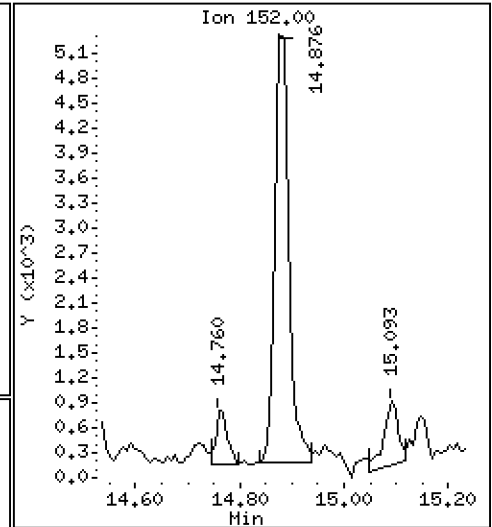
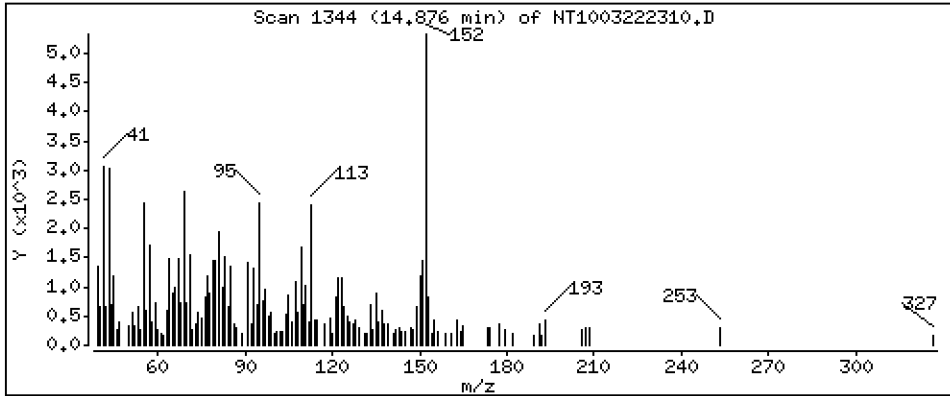
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 0.05611 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

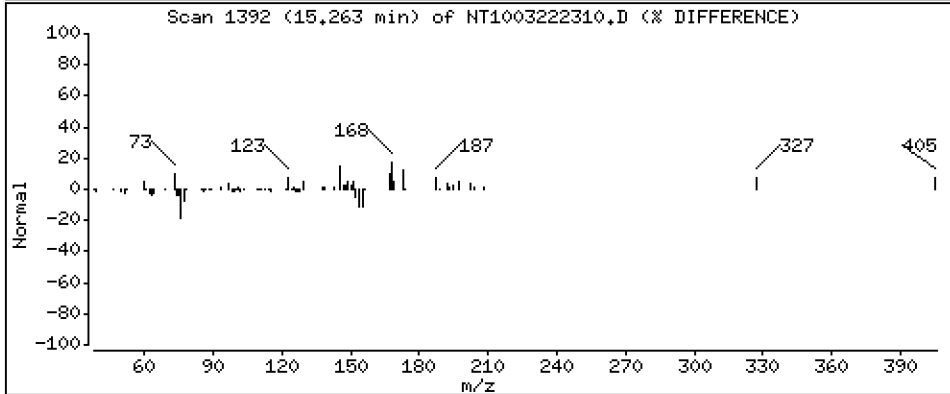
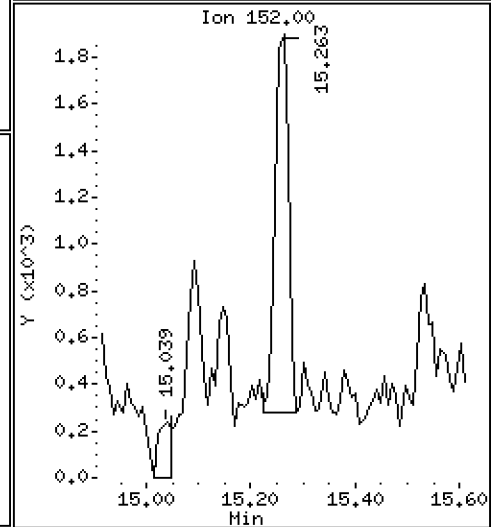
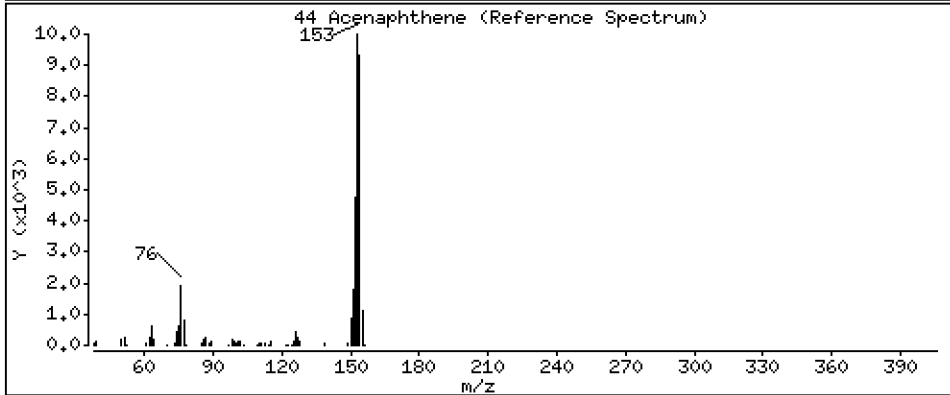
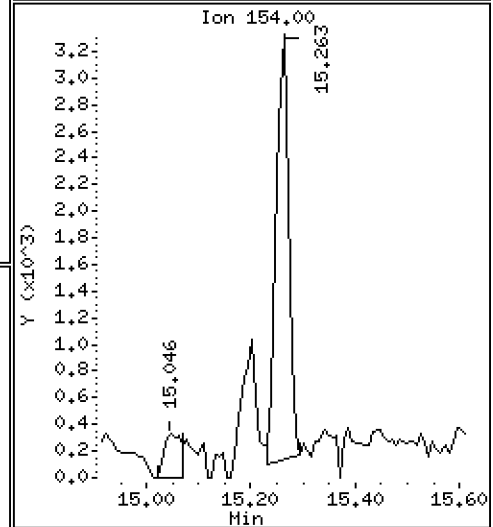
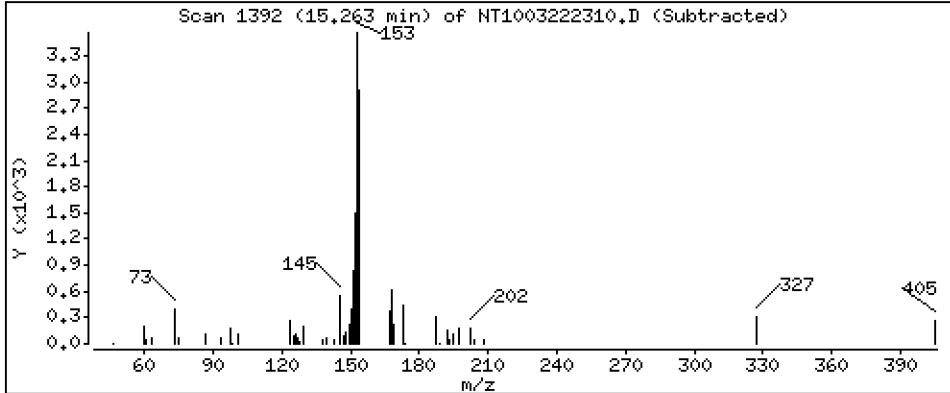
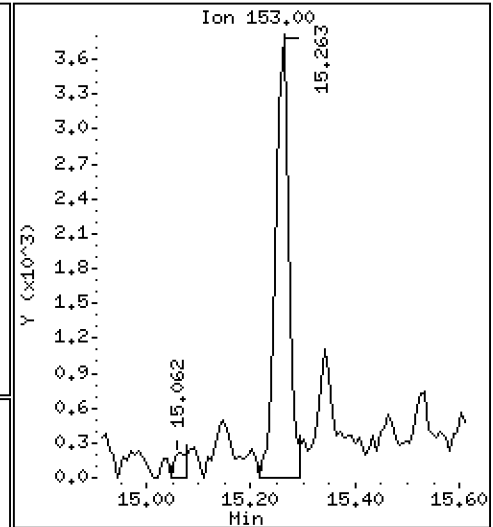
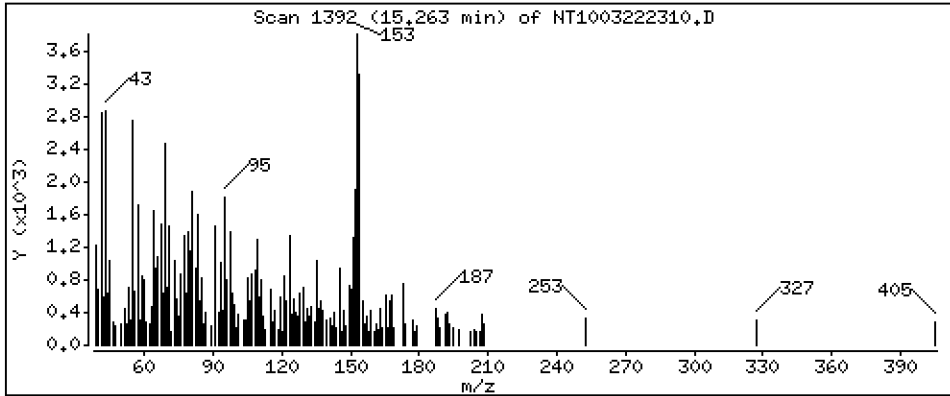
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,06352 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

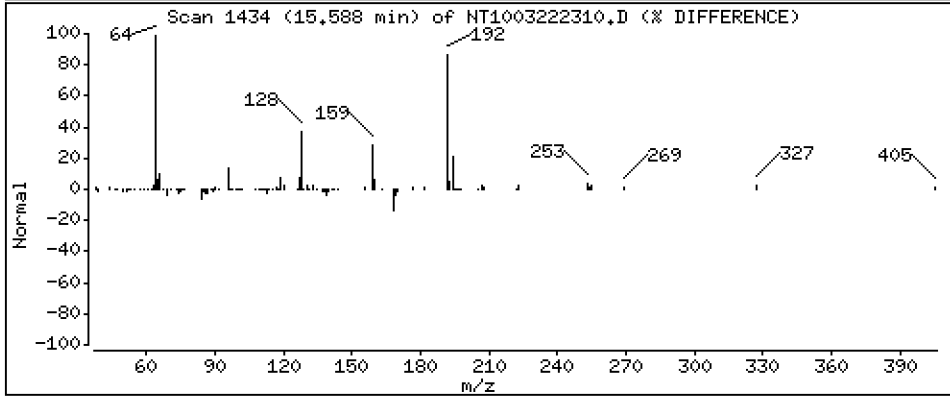
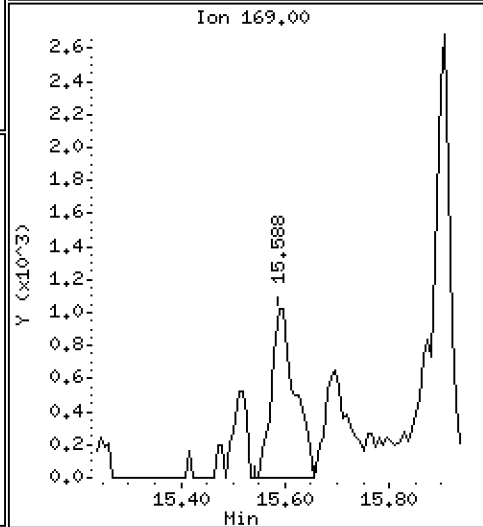
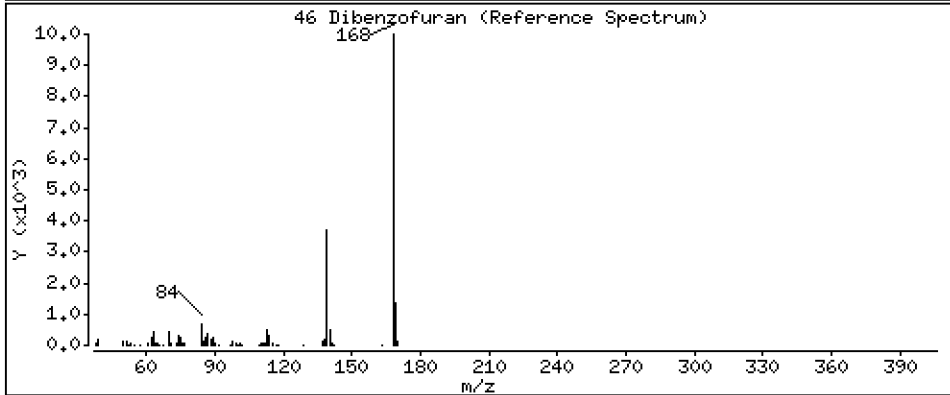
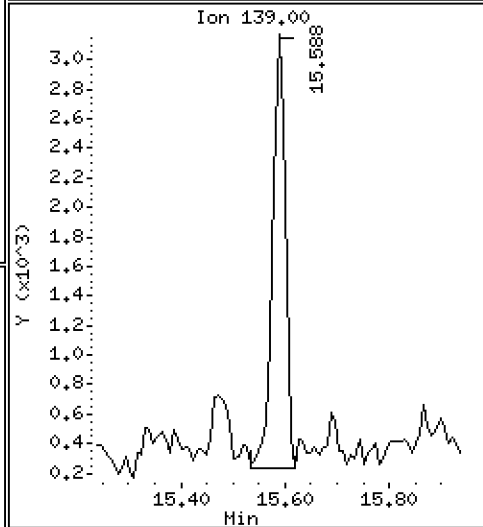
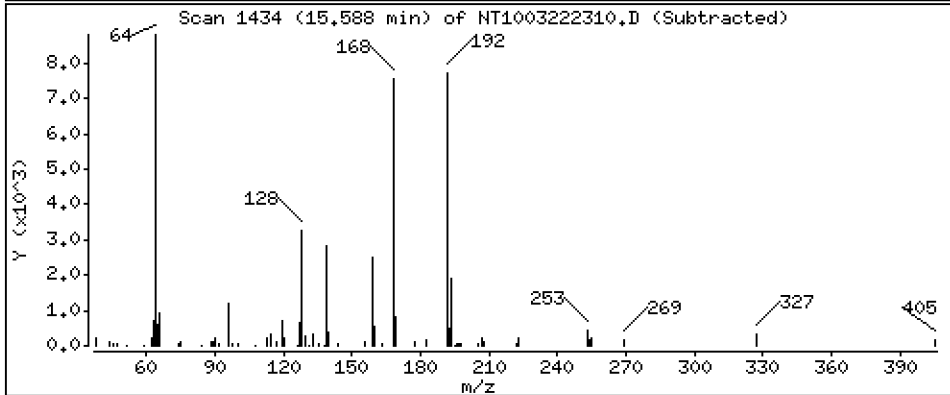
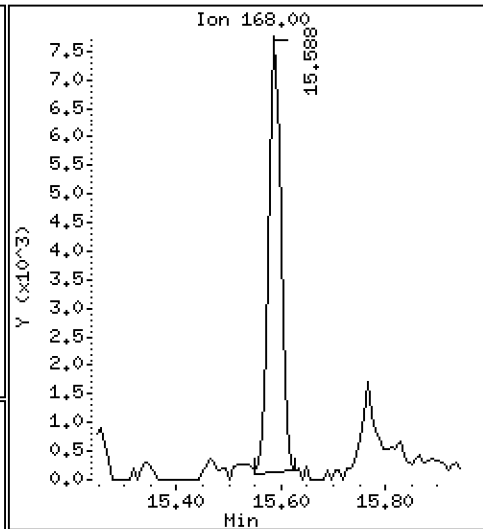
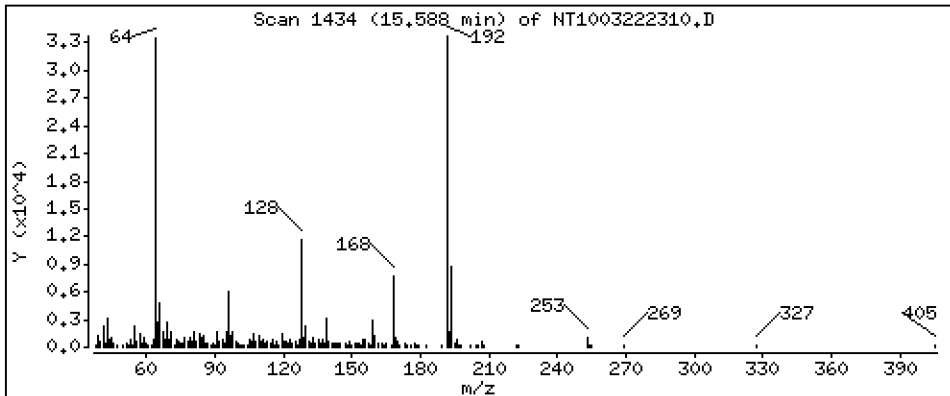
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,07932 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

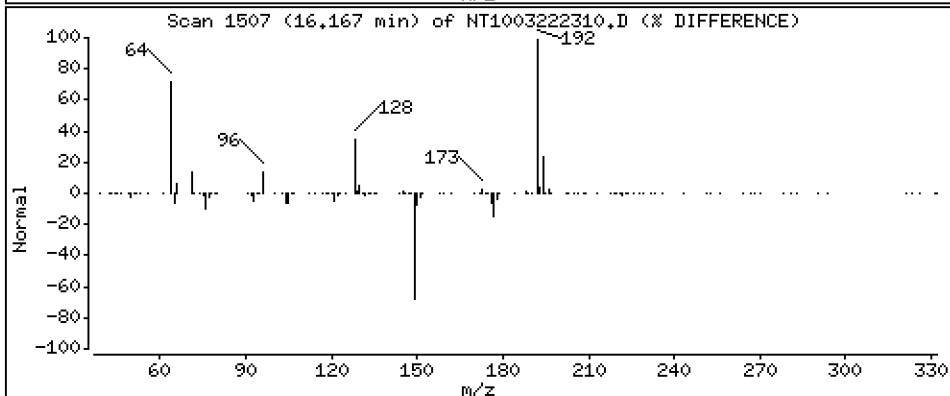
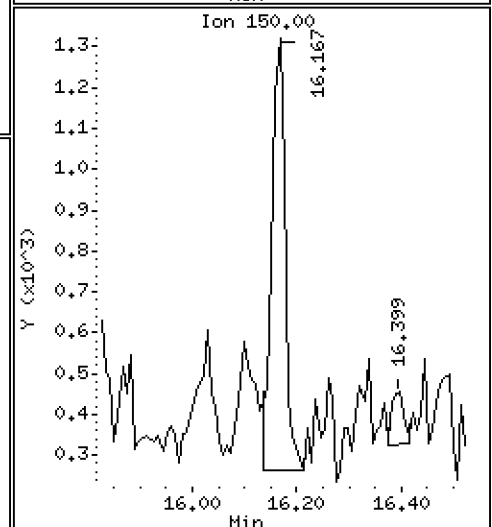
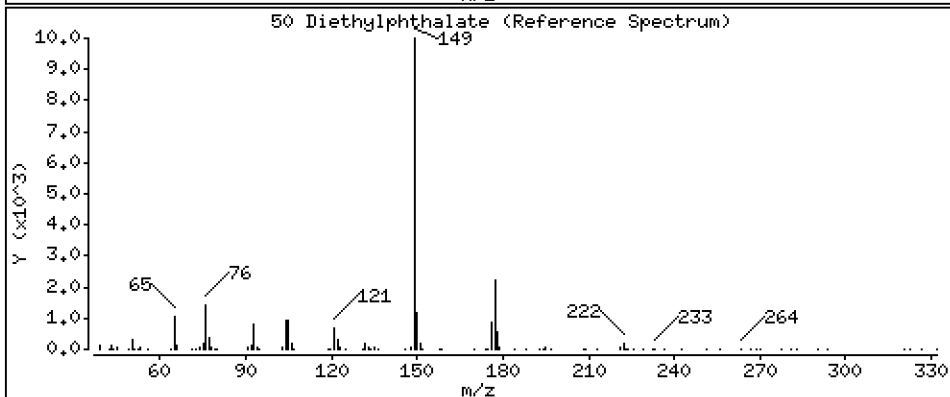
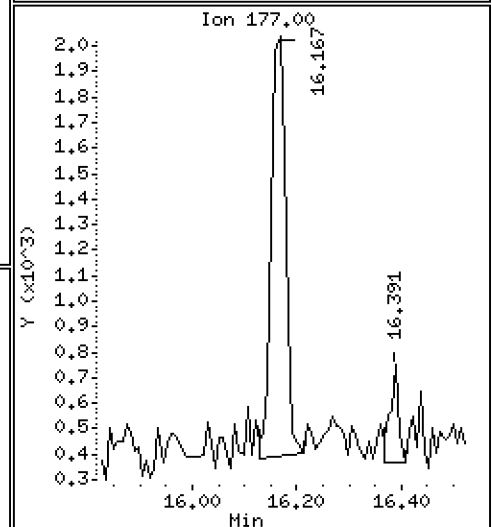
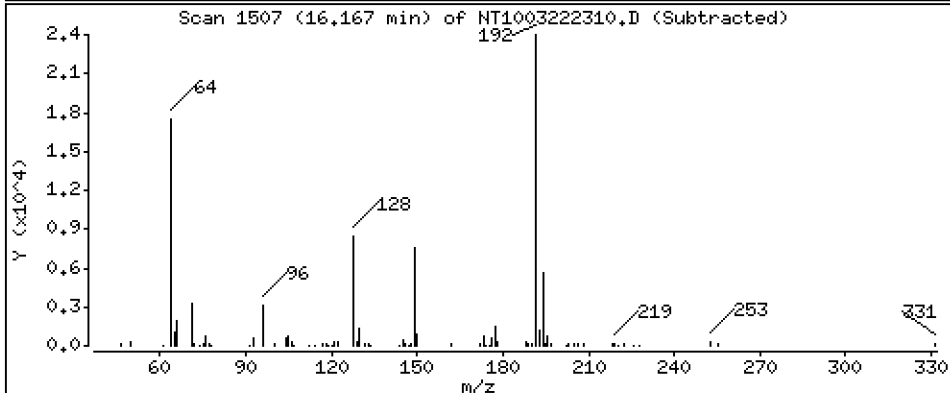
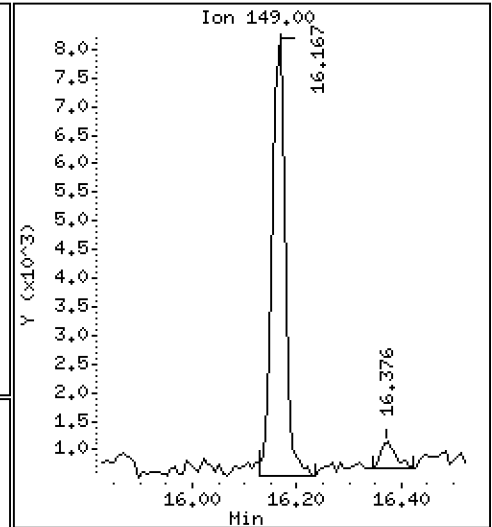
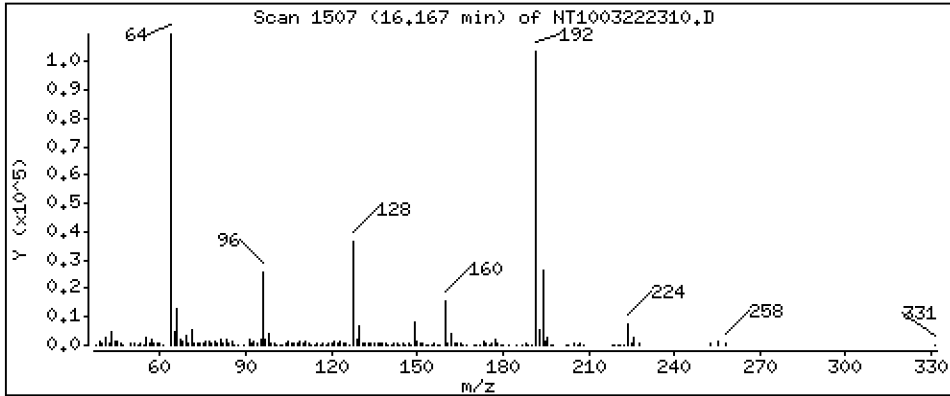
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 0.1393 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

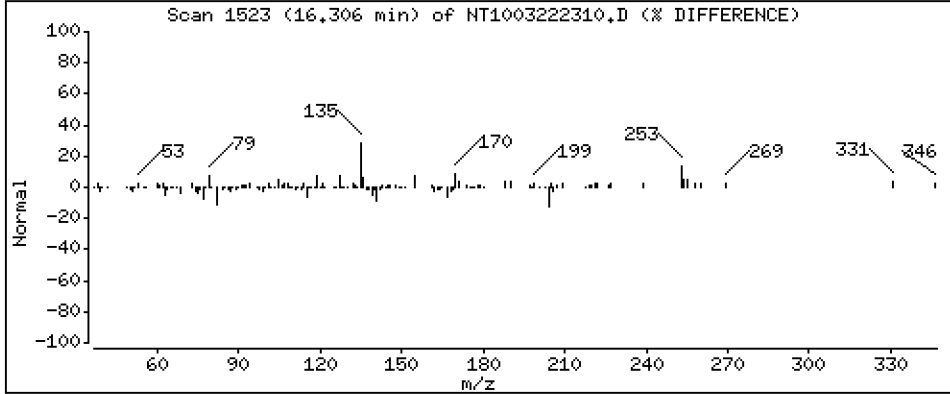
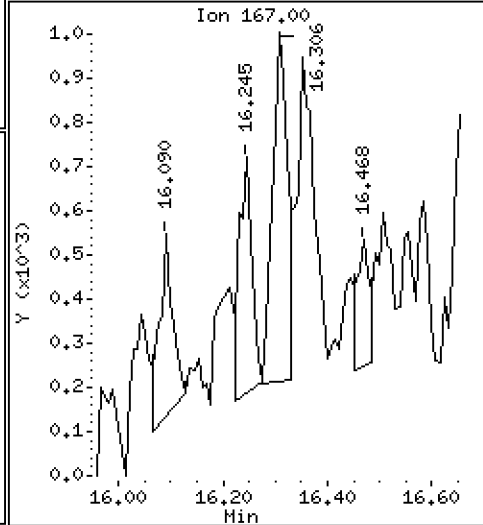
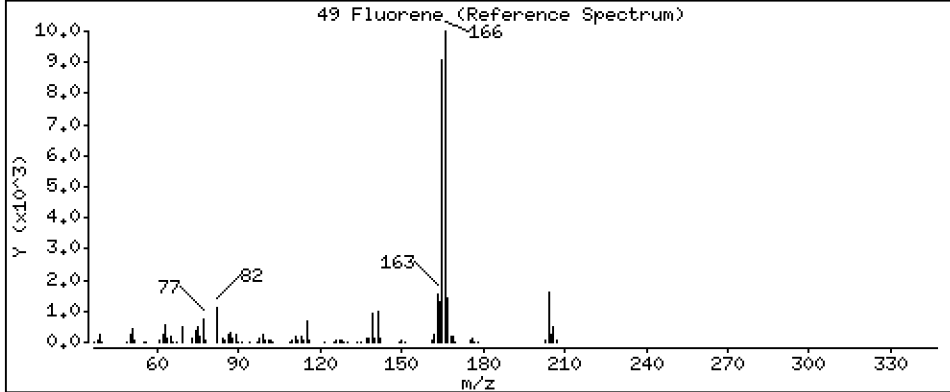
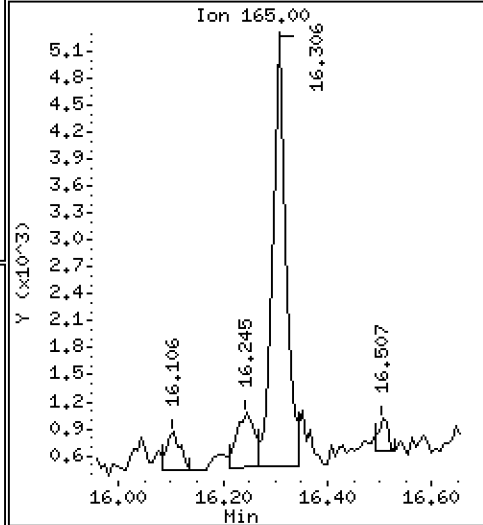
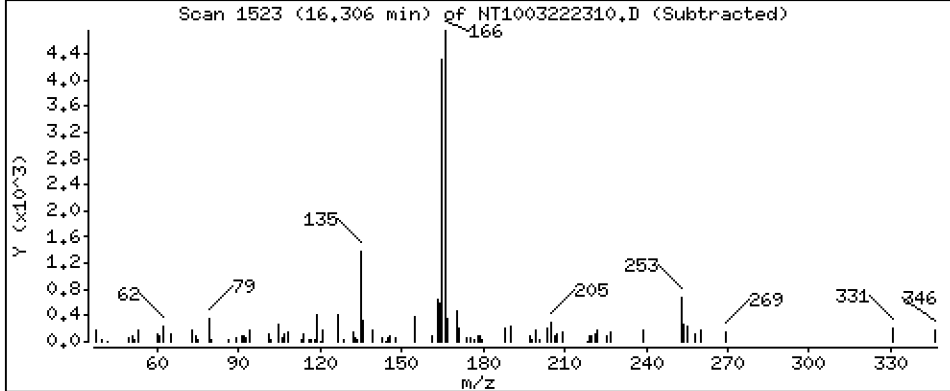
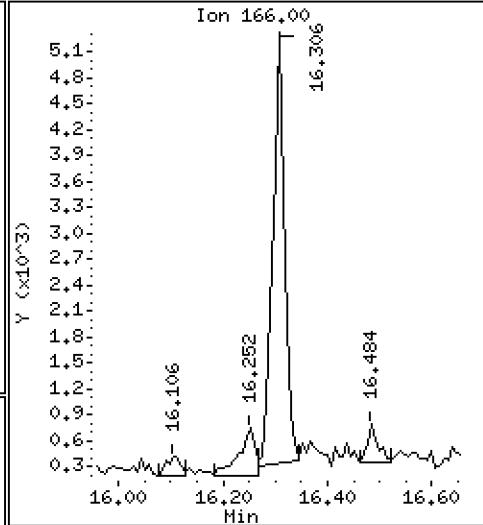
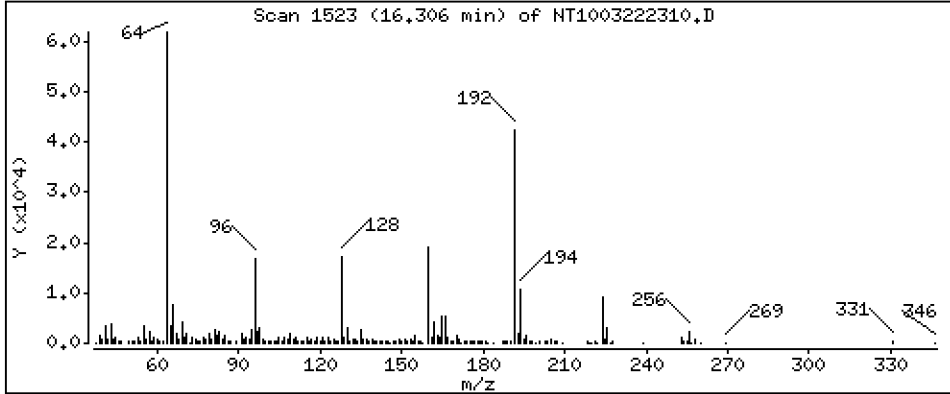
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,06580 ug/mL





Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

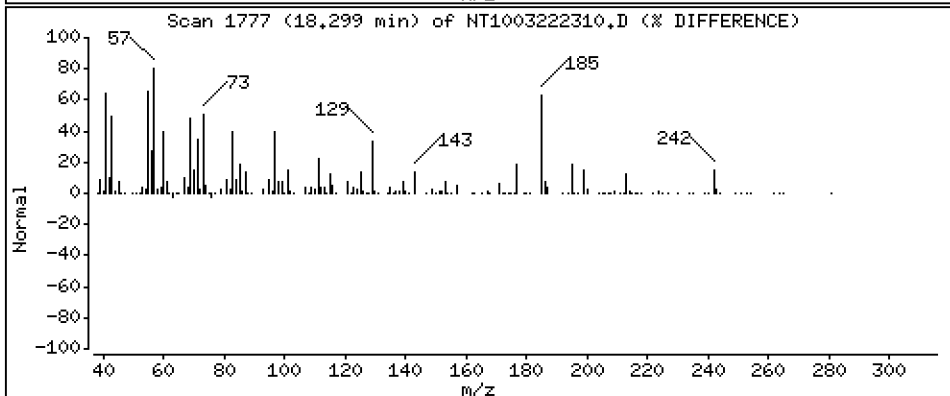
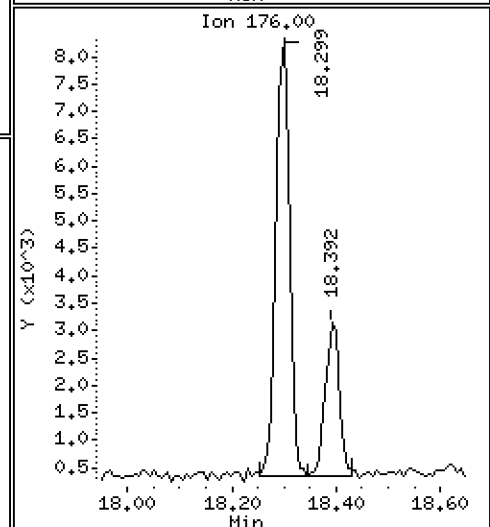
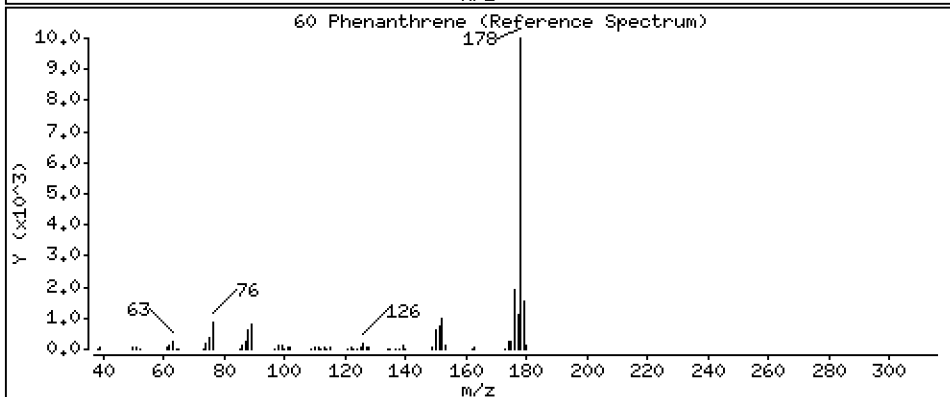
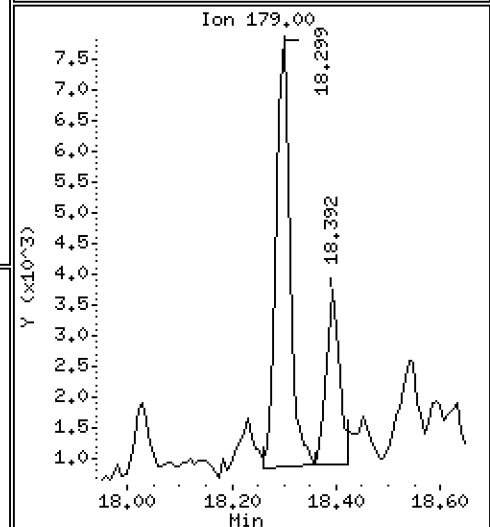
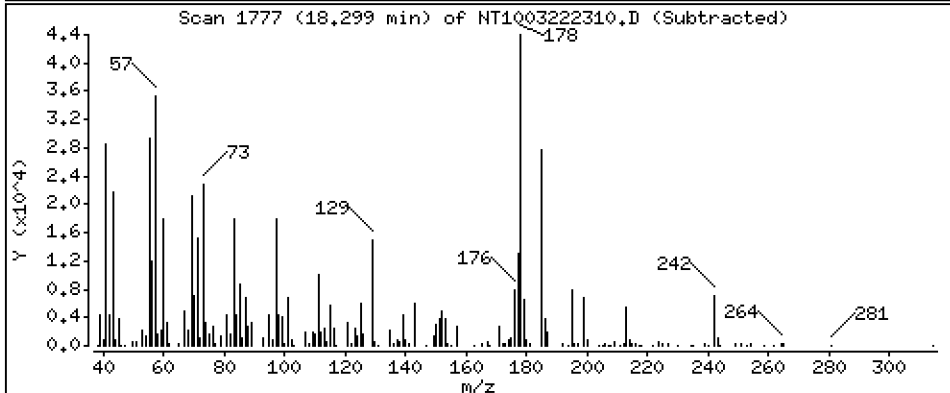
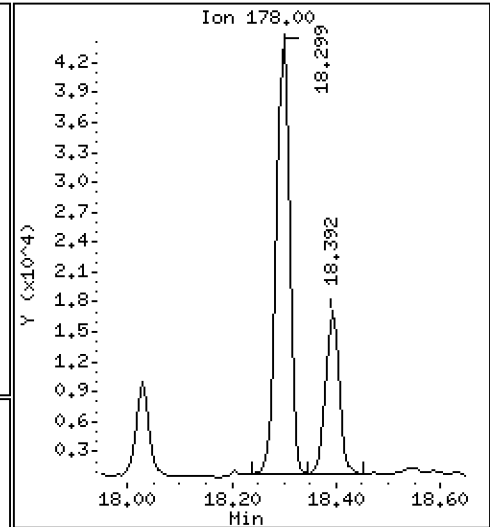
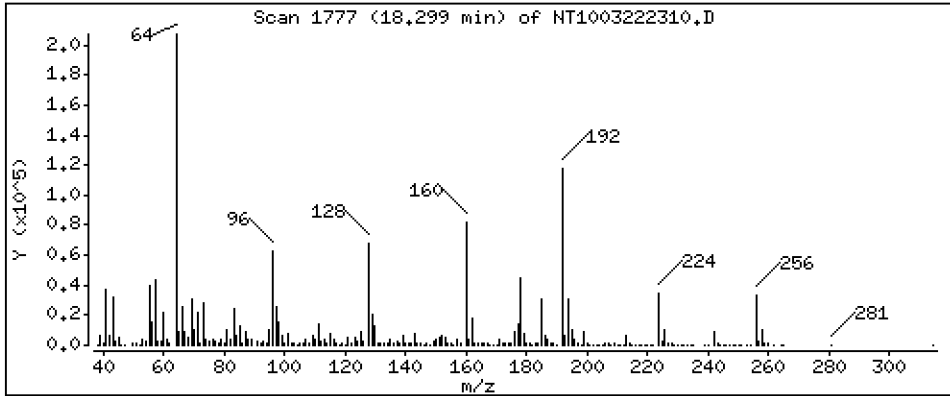
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 0.4314 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

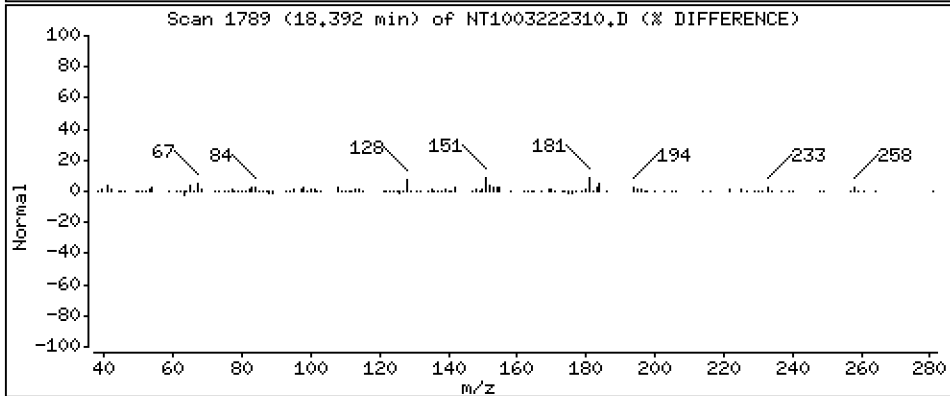
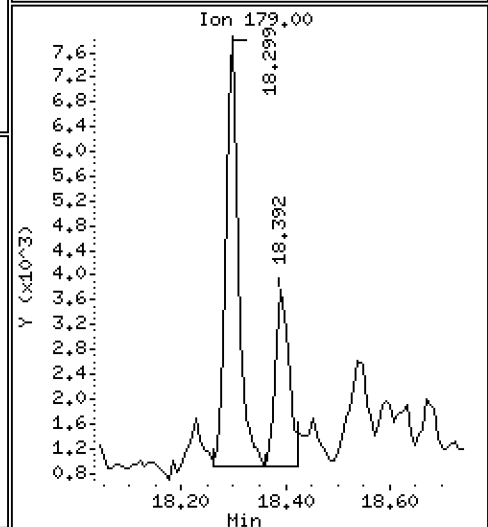
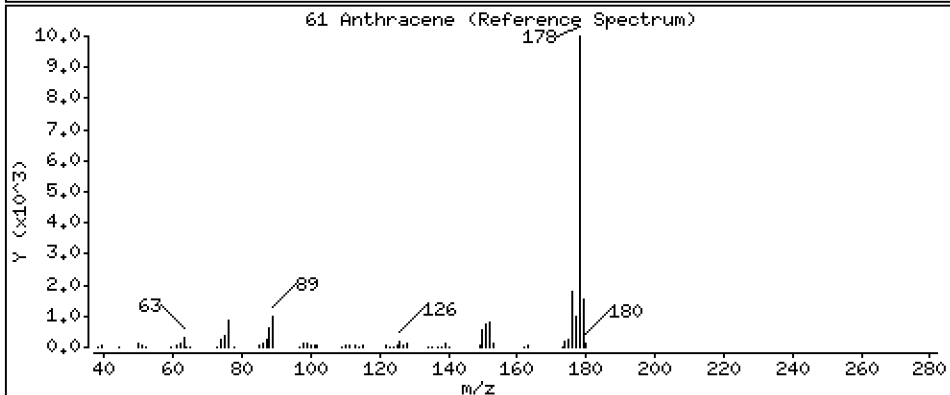
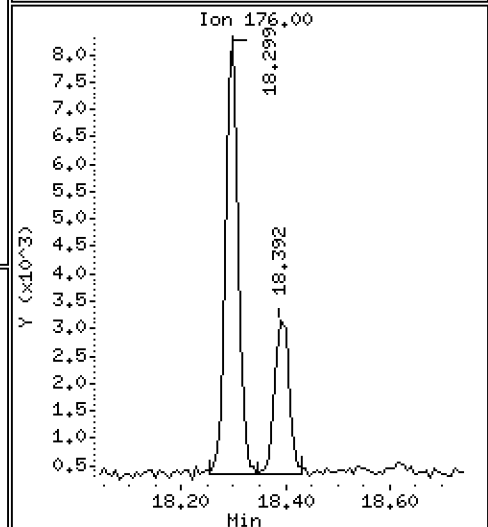
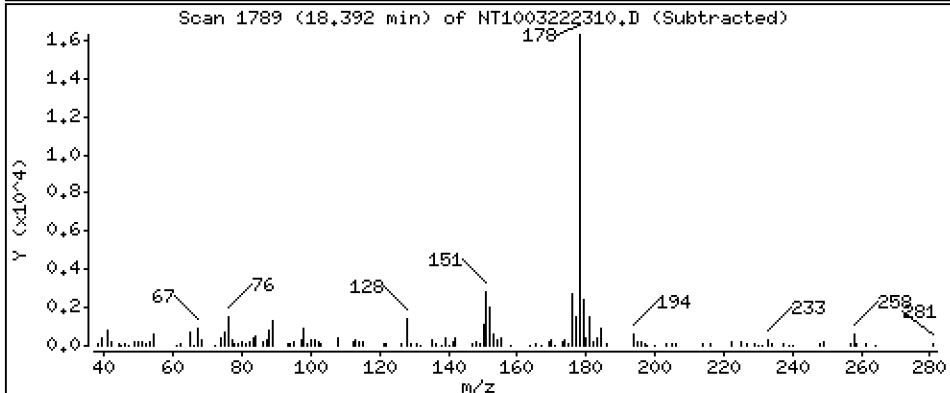
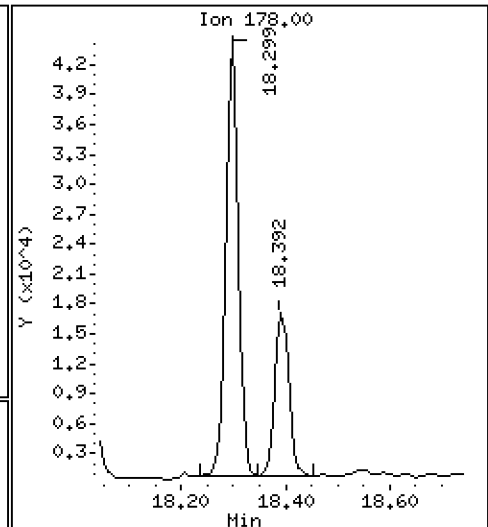
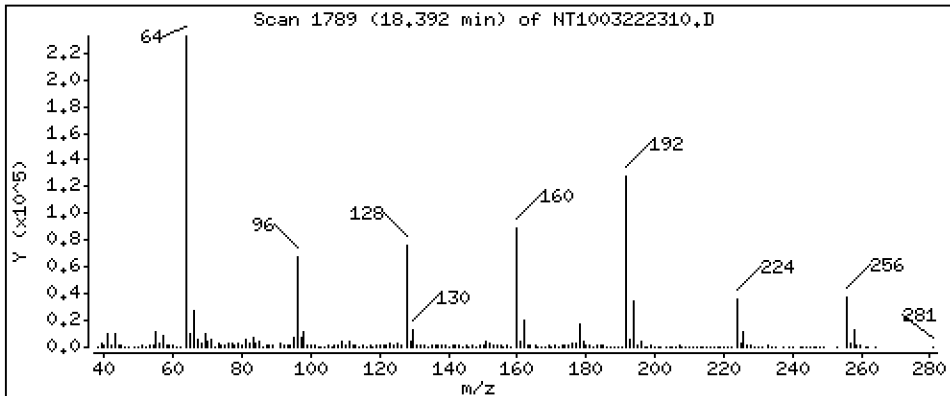
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,1792 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

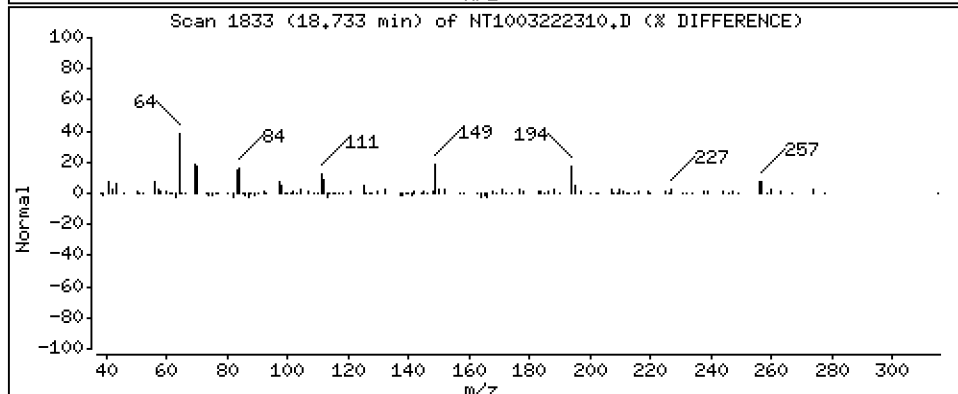
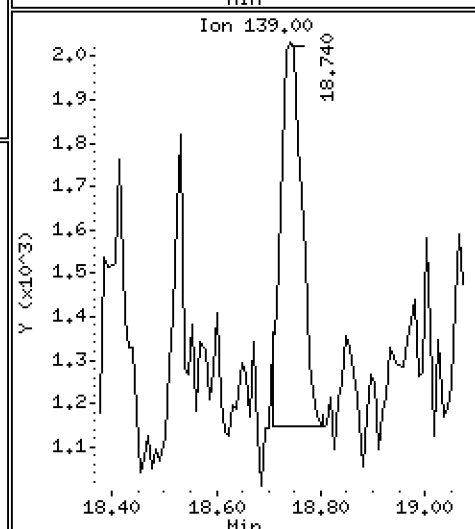
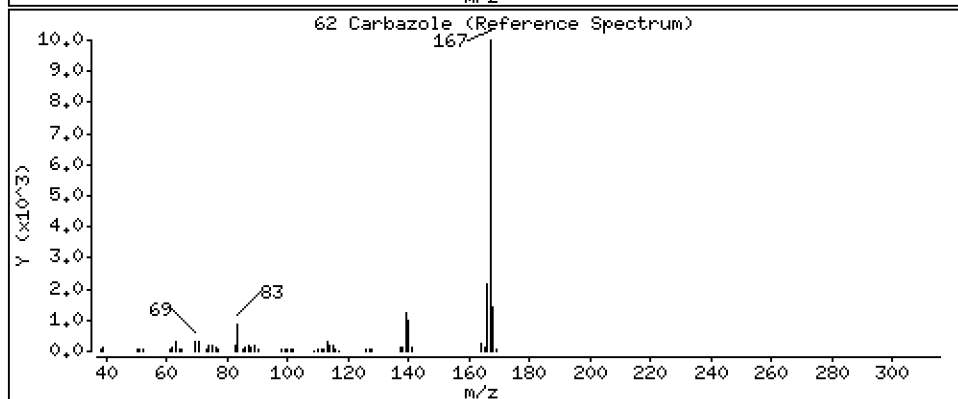
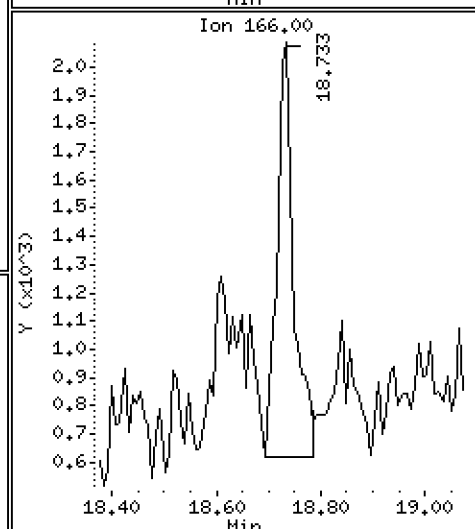
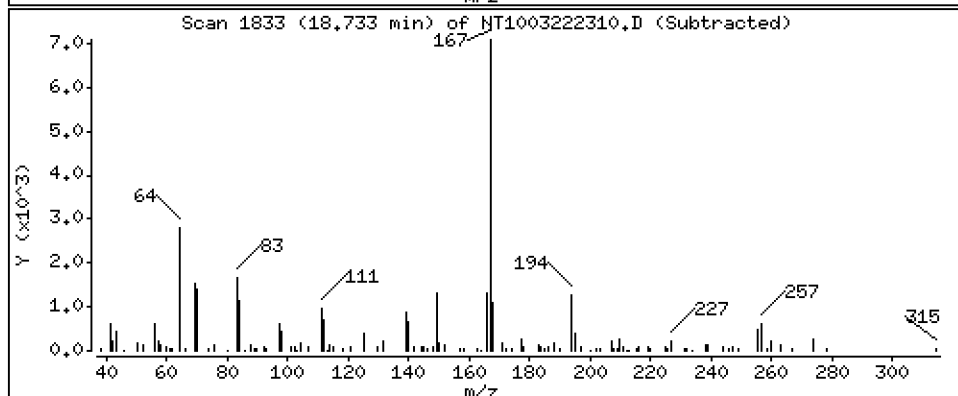
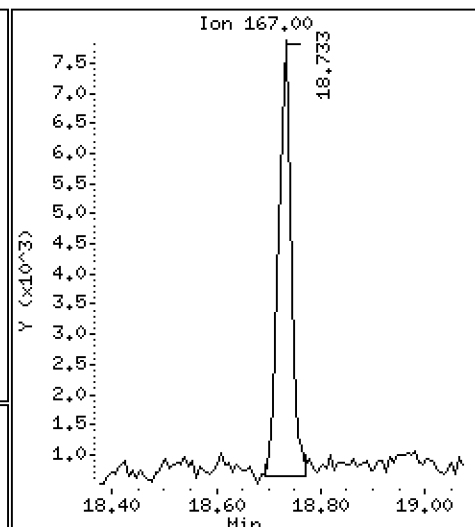
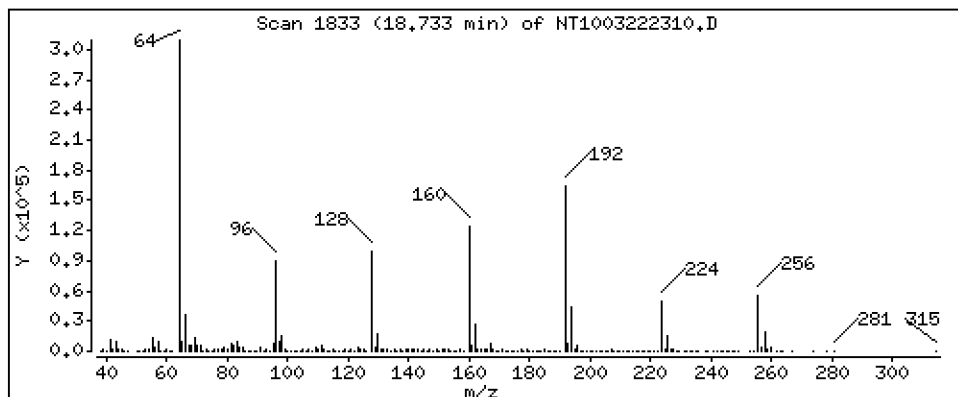
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

62 Carbazole

Concentration: 0.08103 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

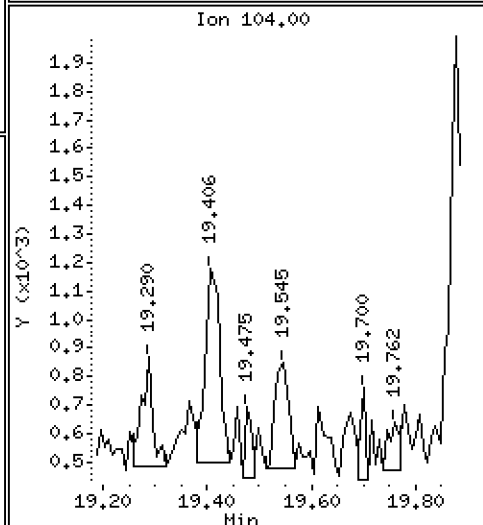
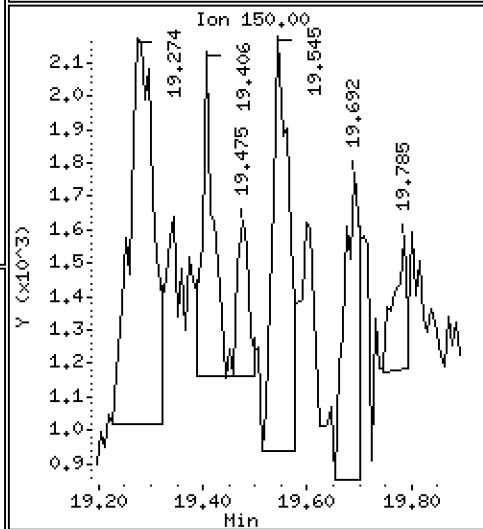
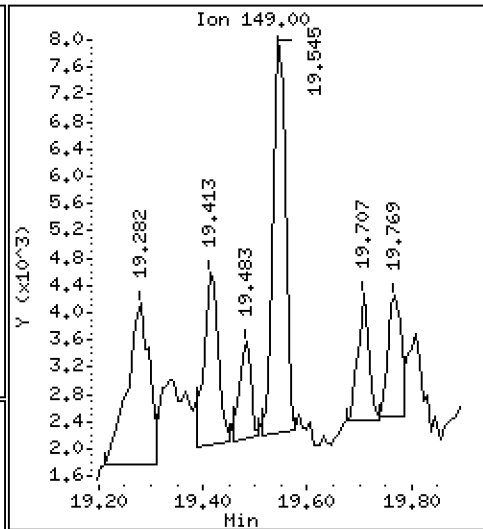
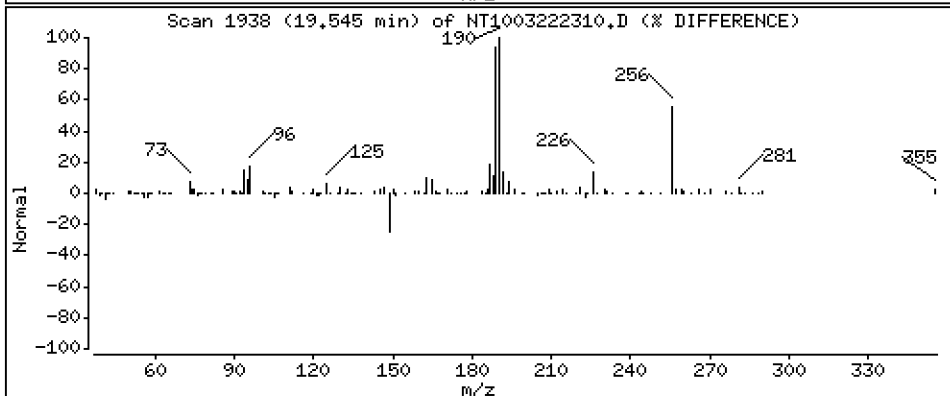
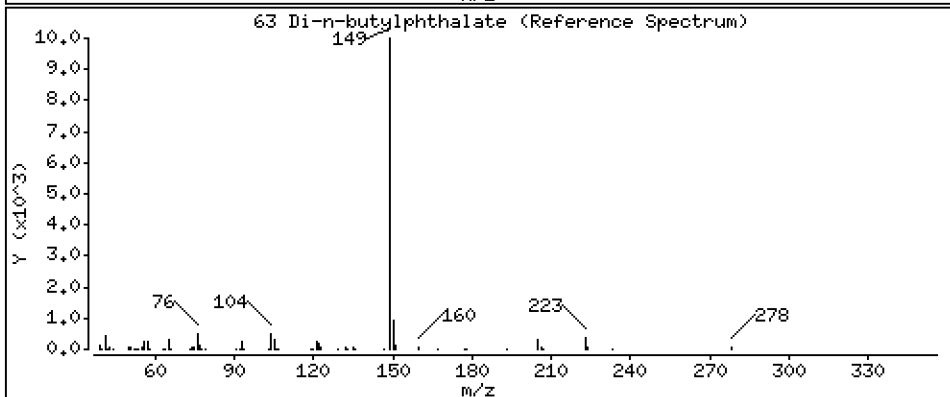
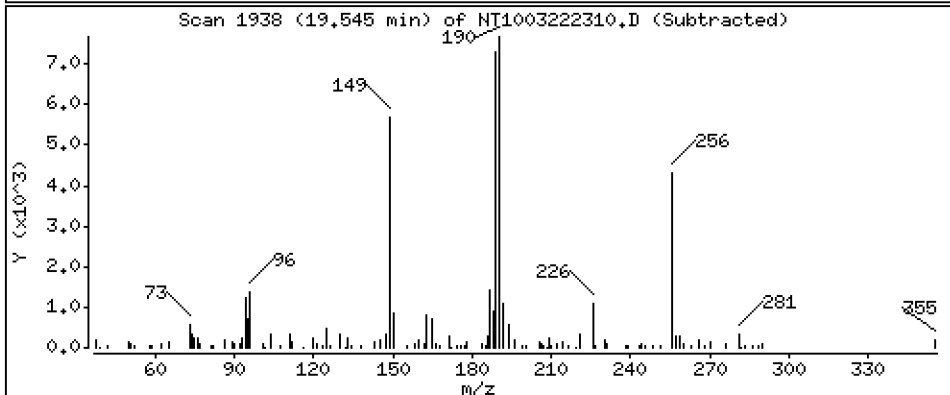
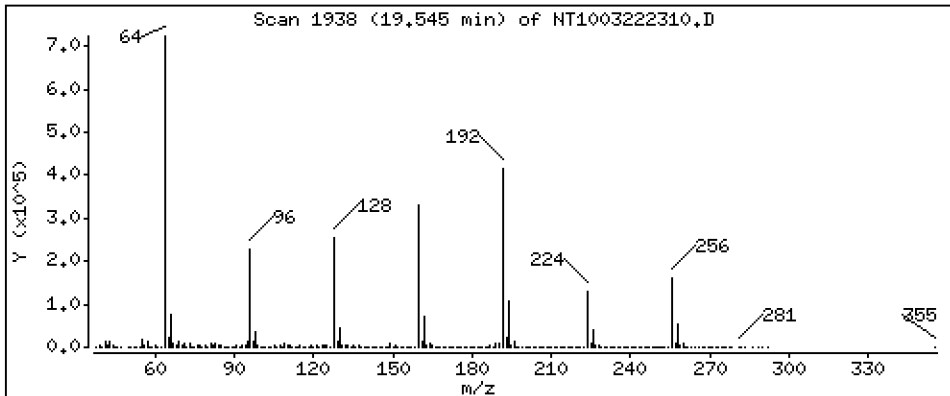
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 0.04567 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

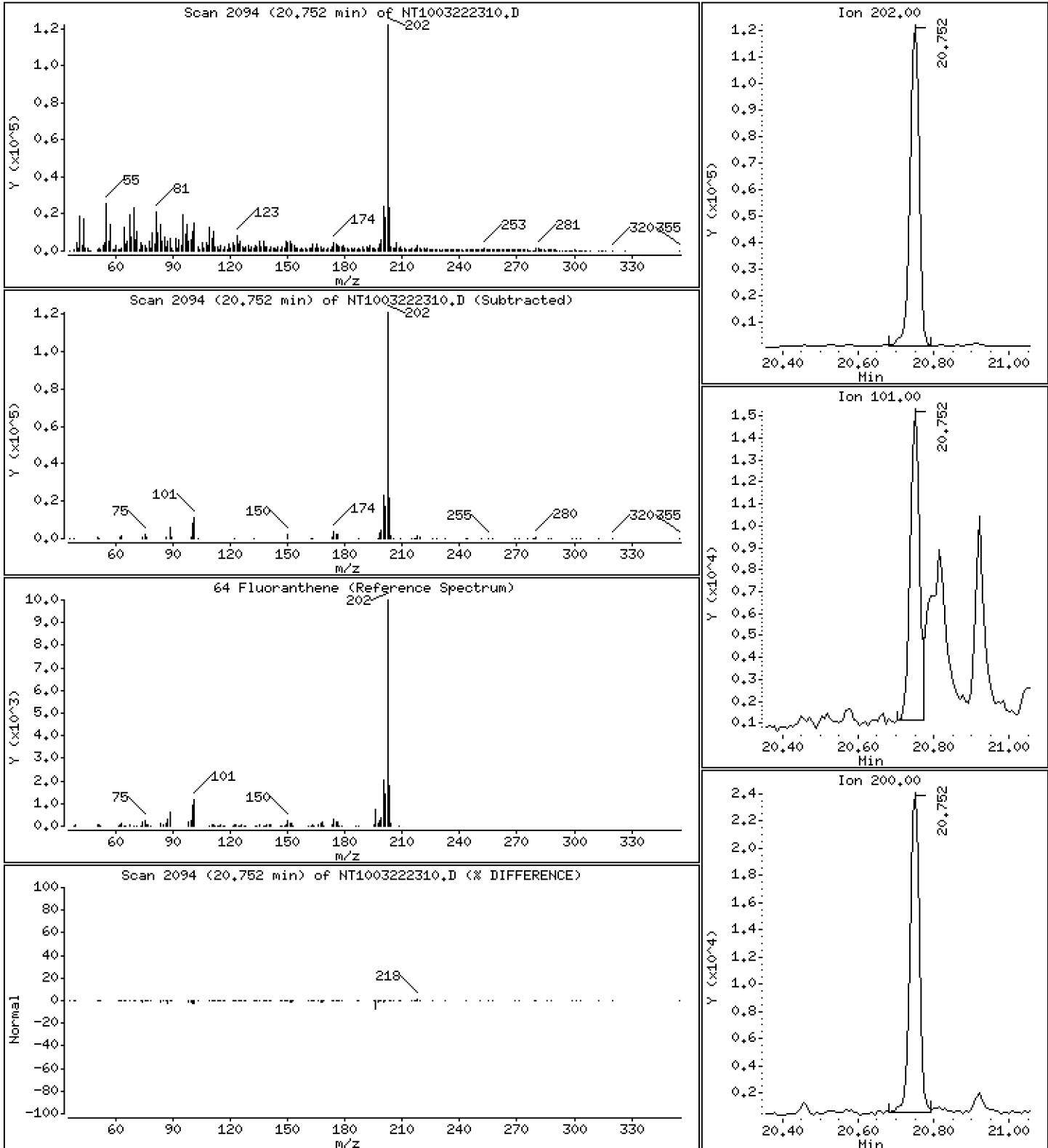
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,9361 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

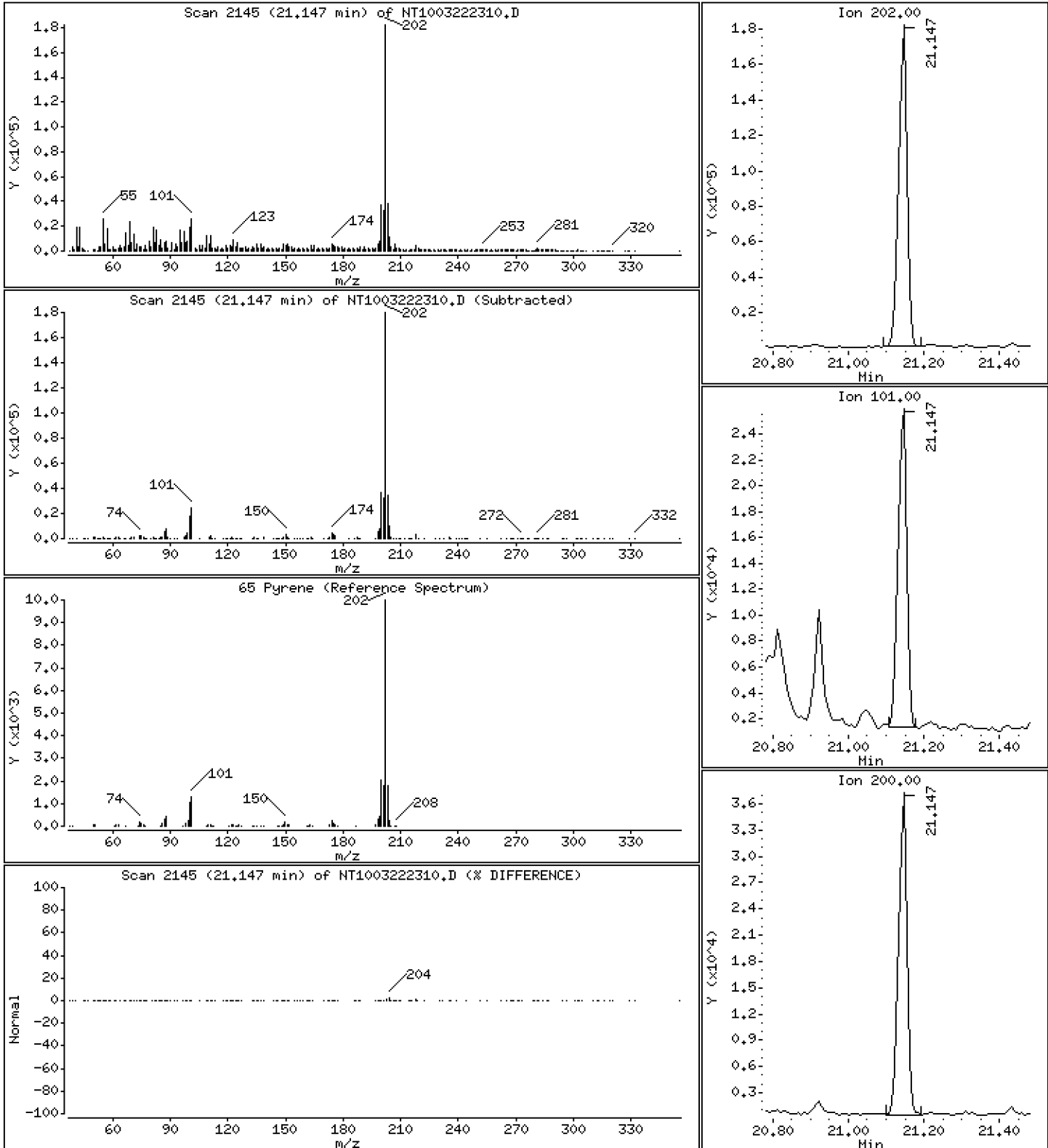
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 1,142 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

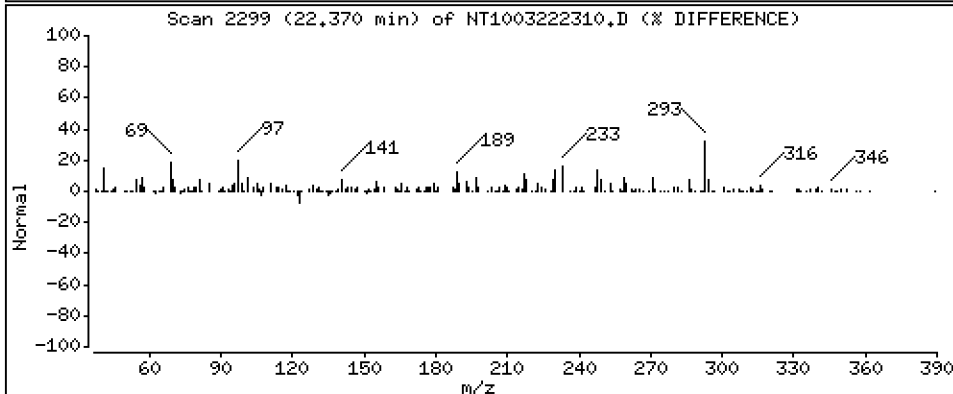
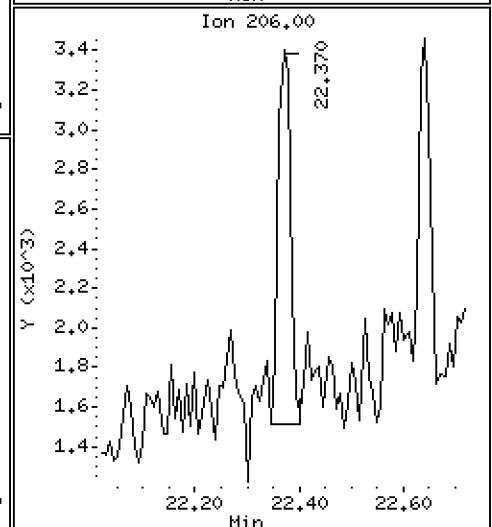
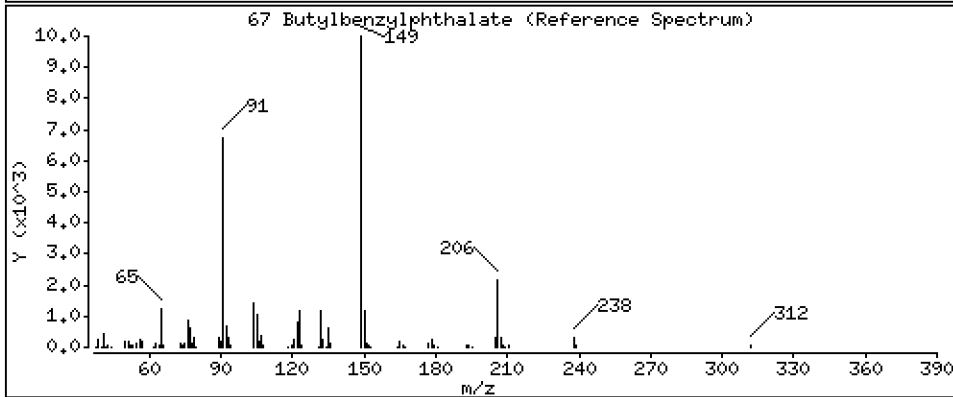
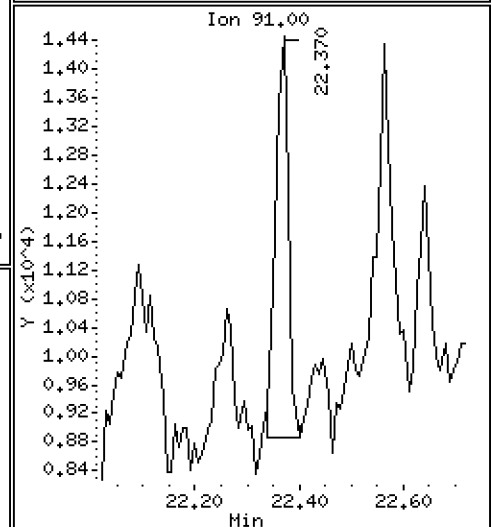
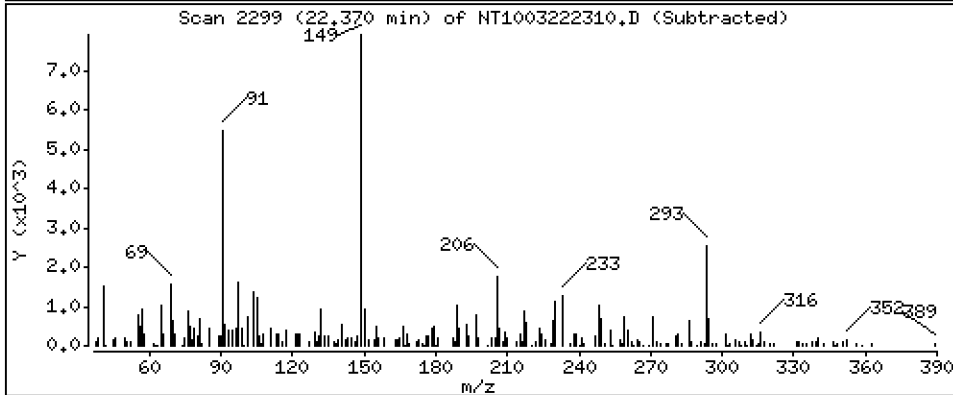
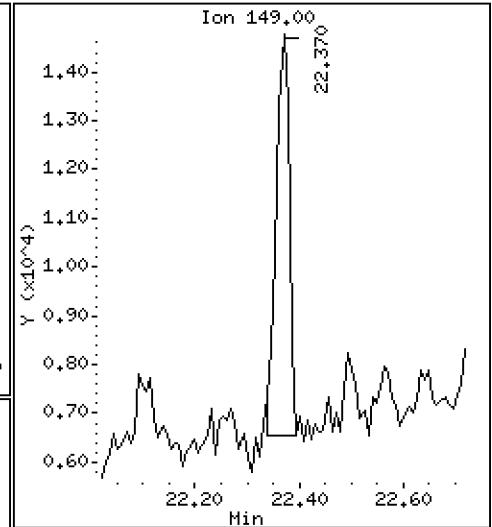
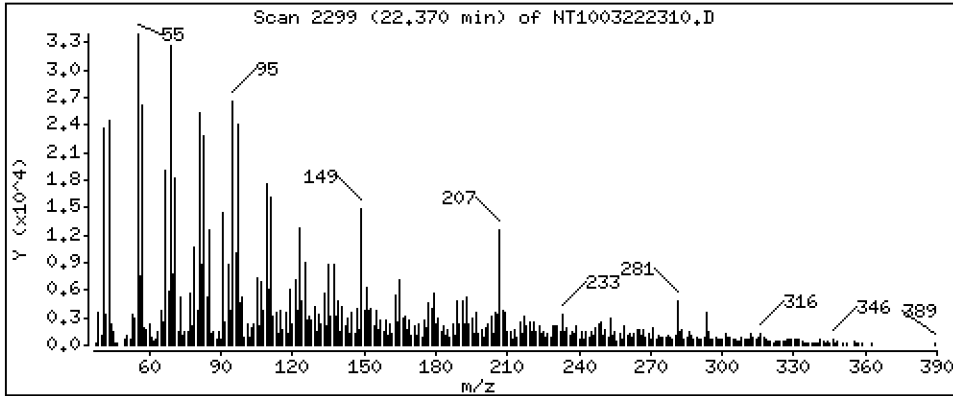
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.1688 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

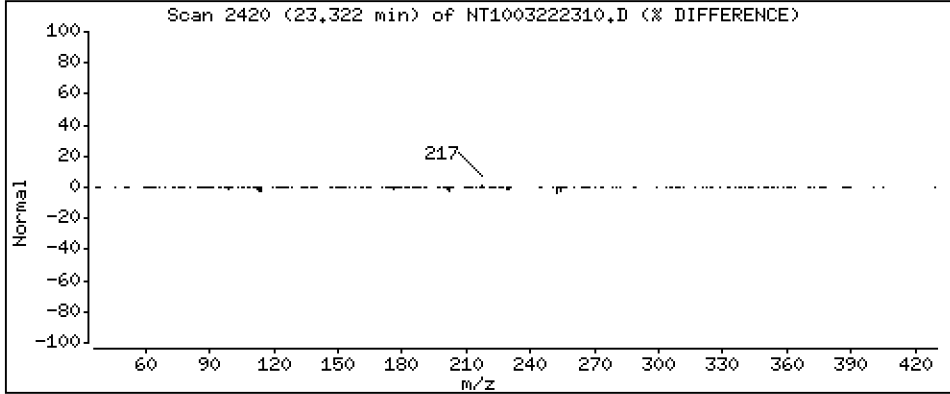
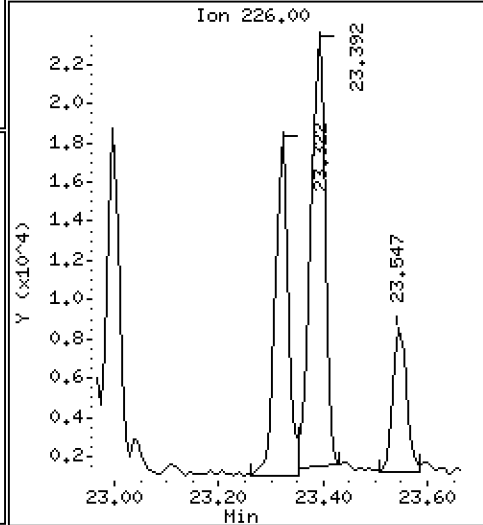
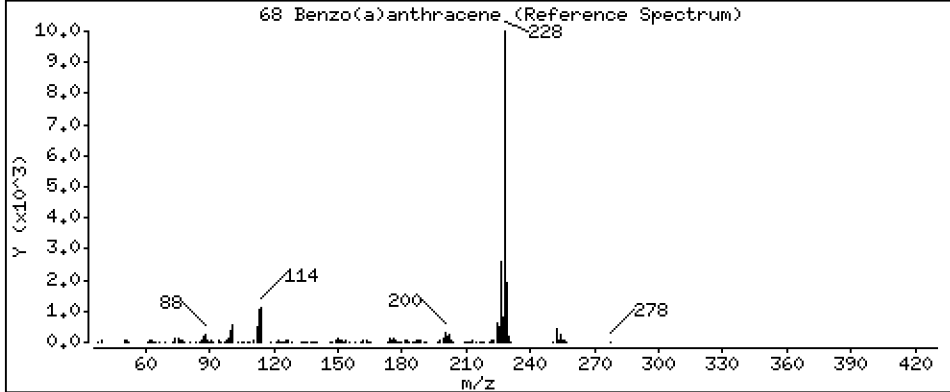
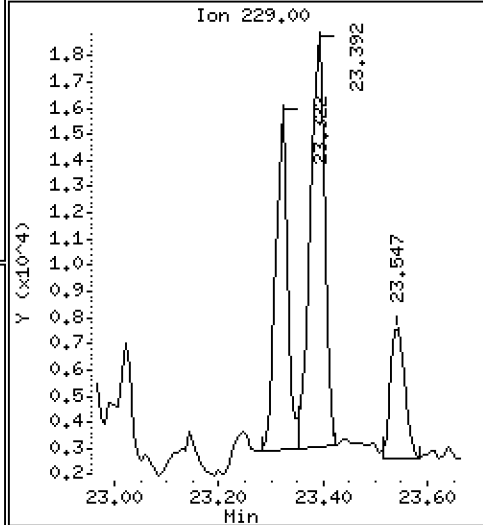
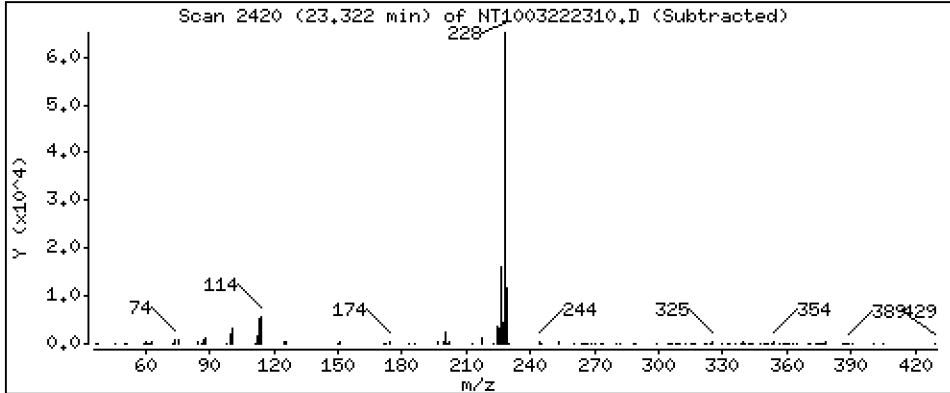
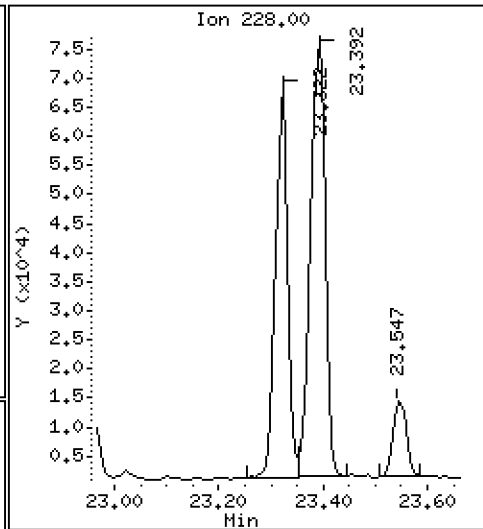
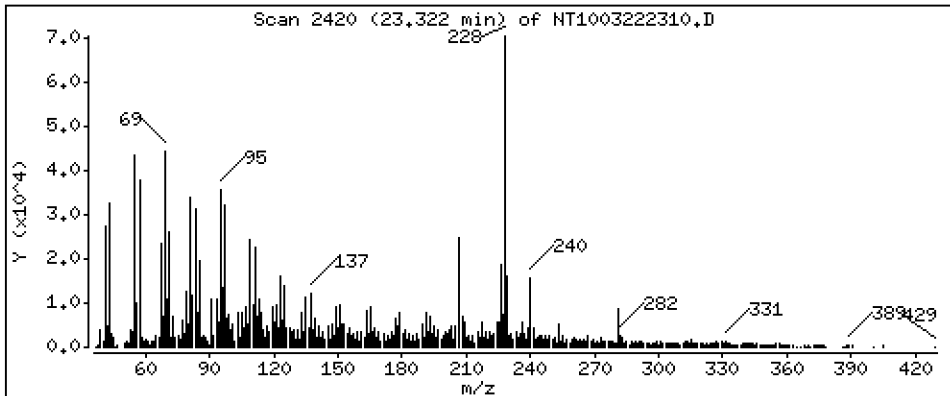
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,5296 ug/mL





Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

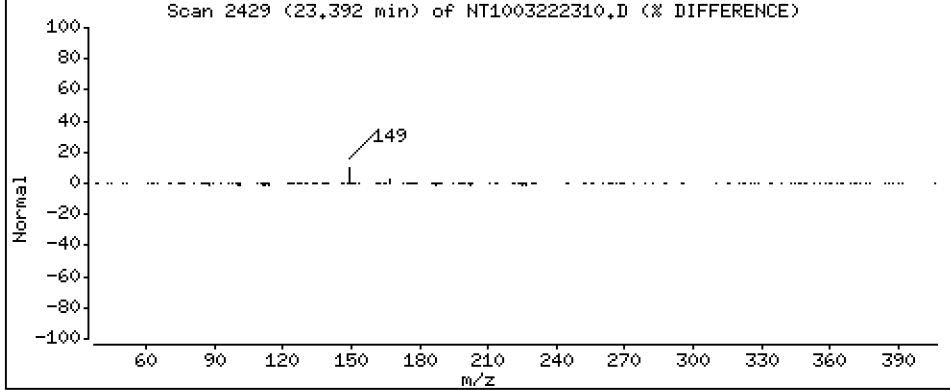
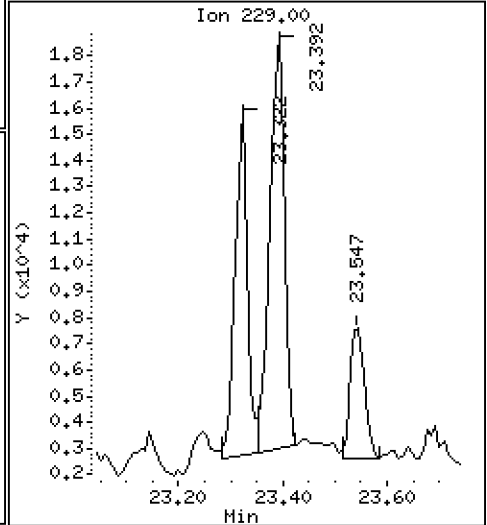
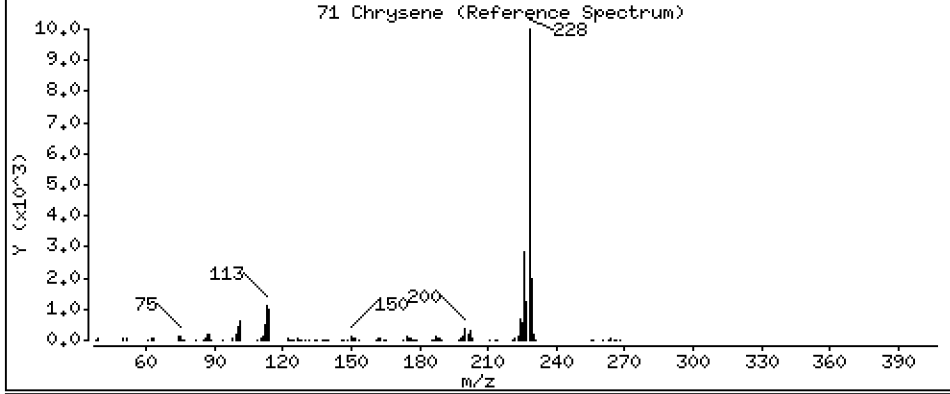
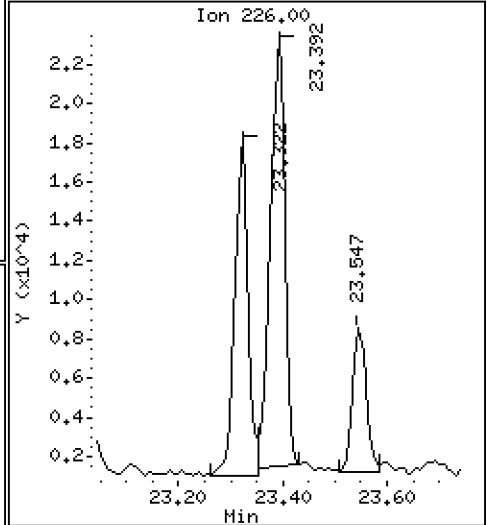
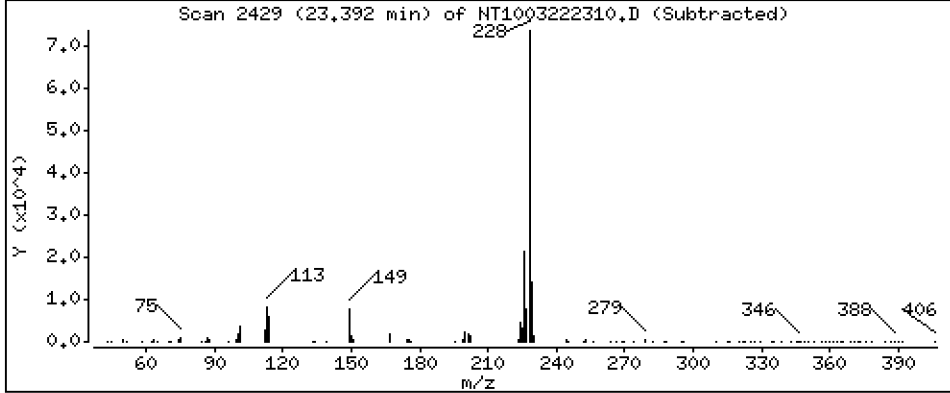
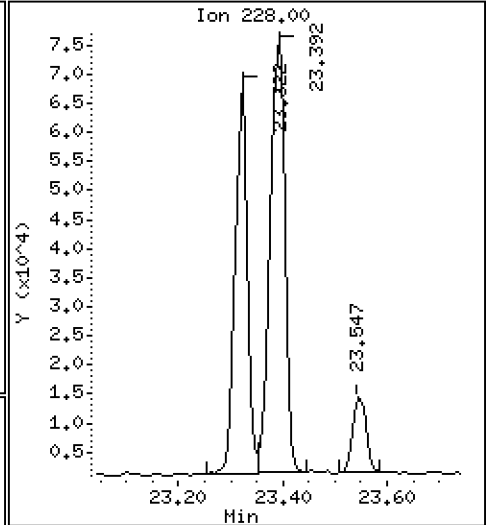
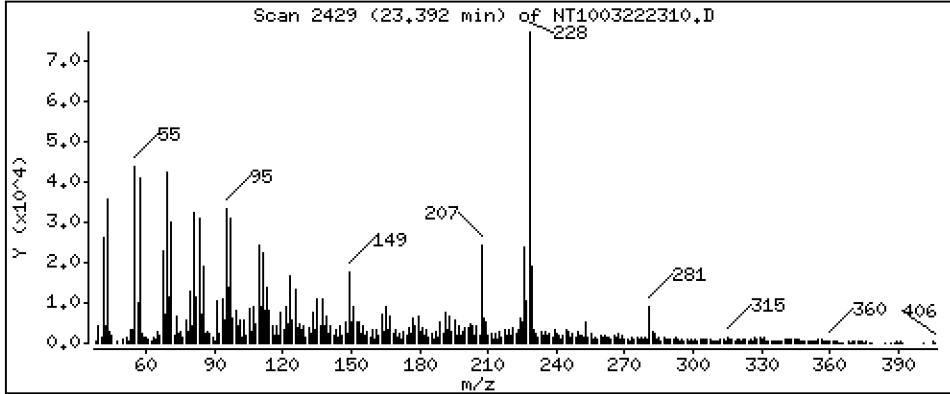
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,7194 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

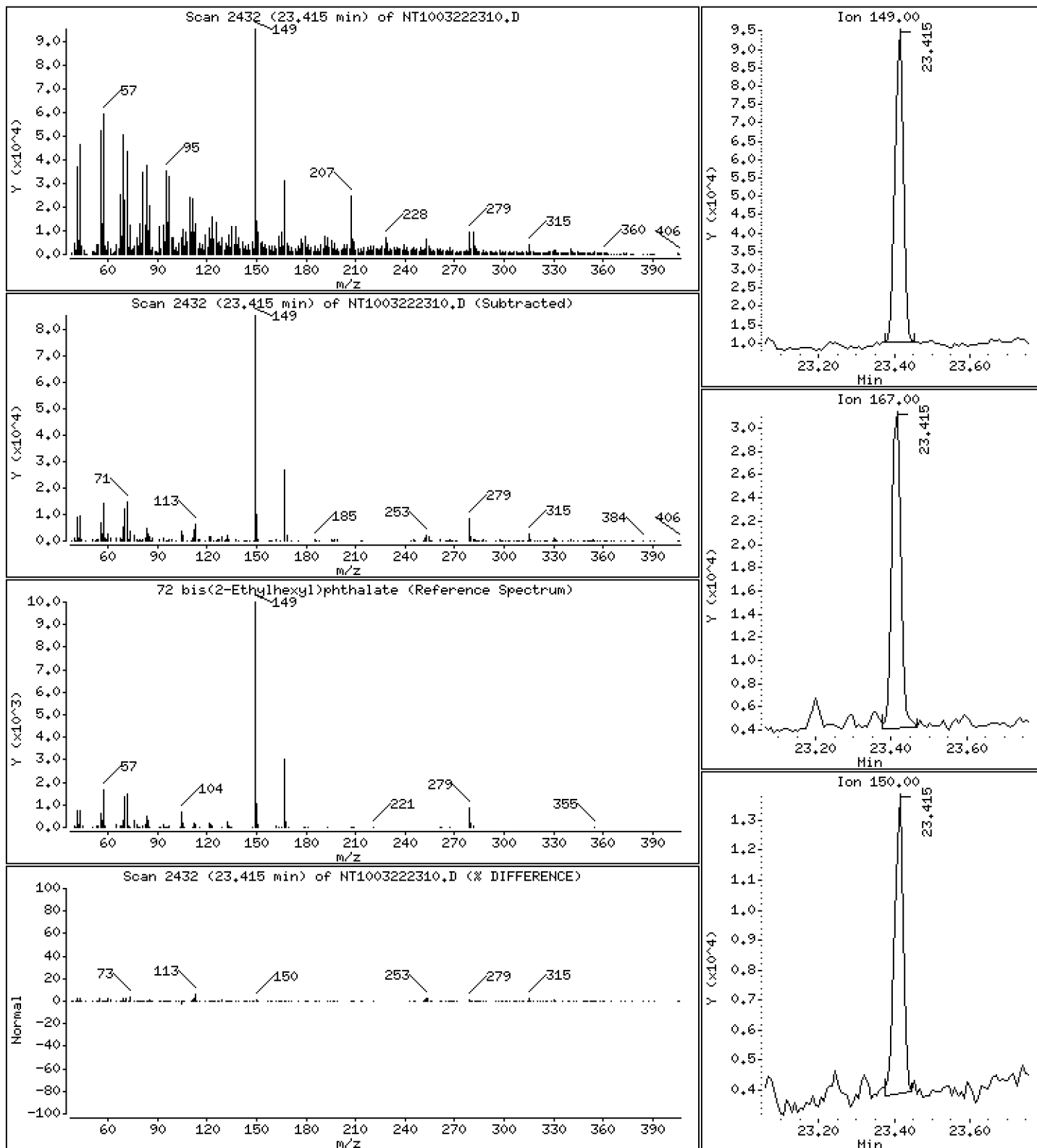
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,8815 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

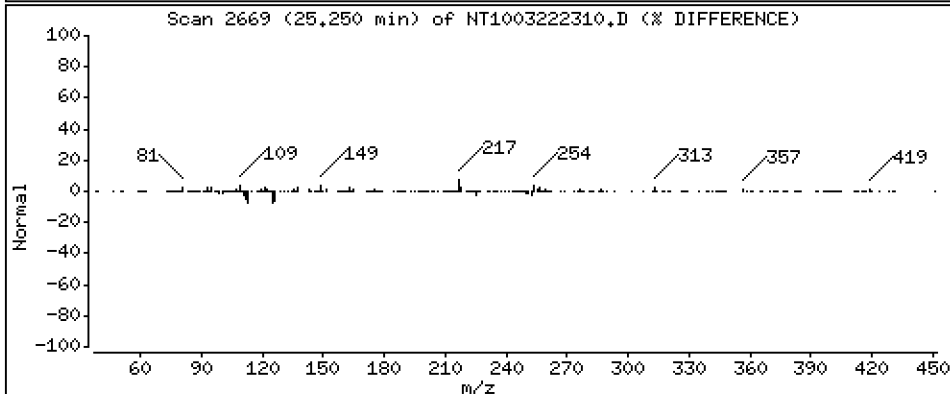
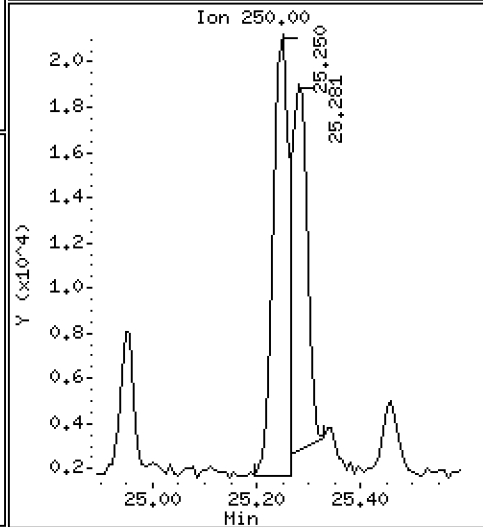
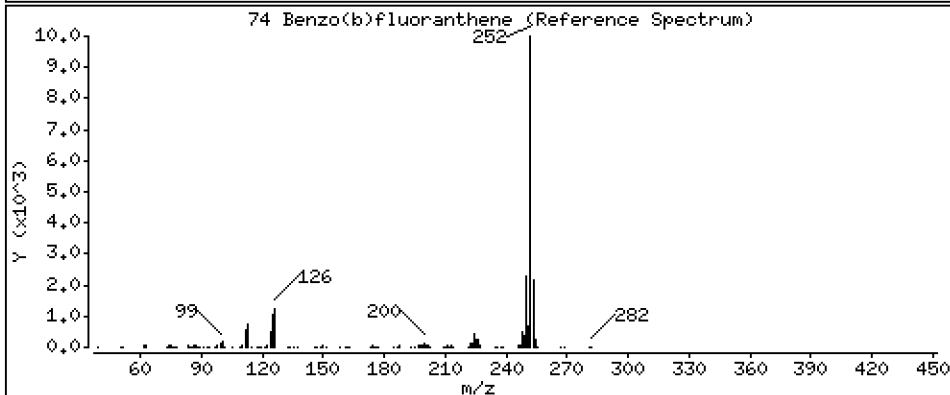
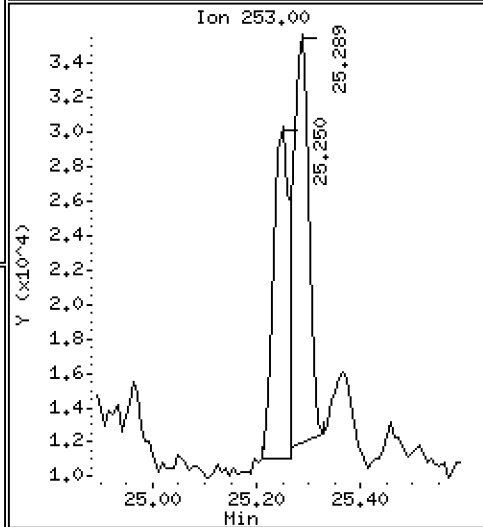
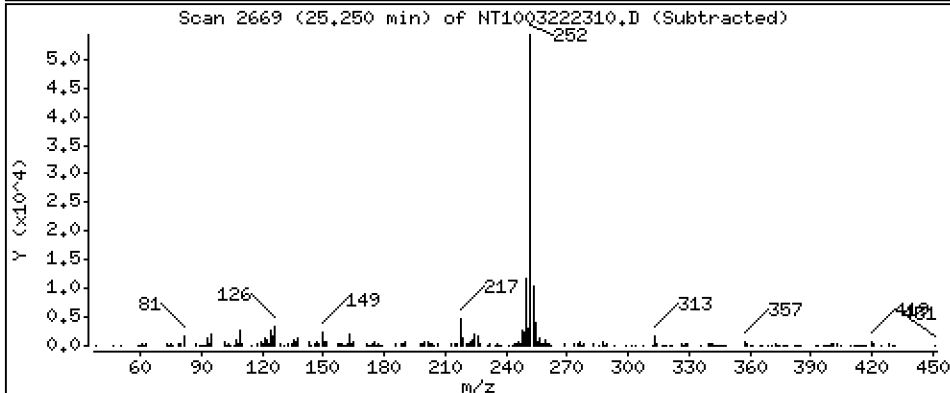
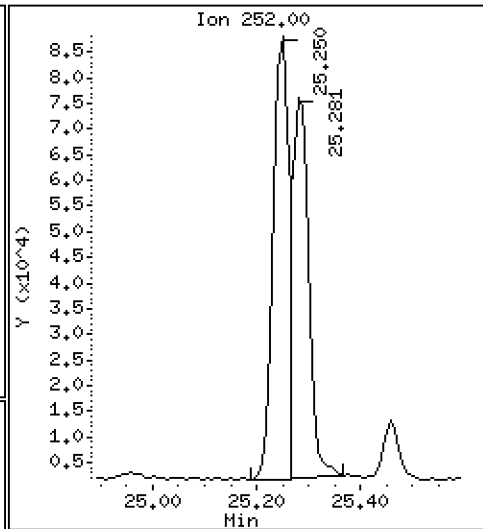
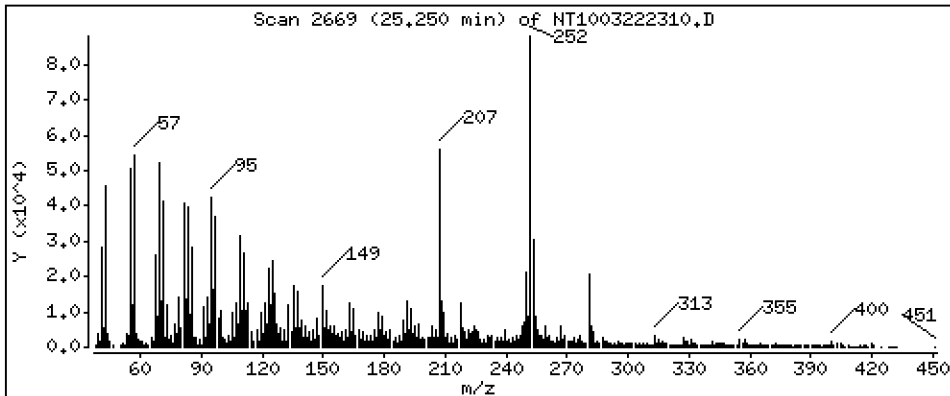
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,8297 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

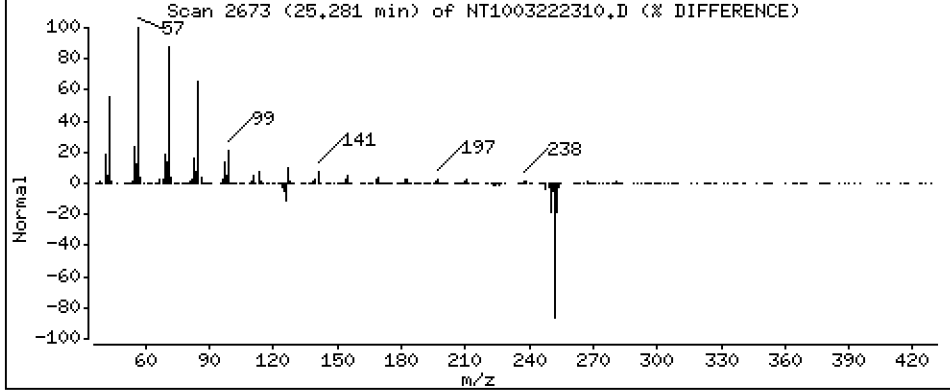
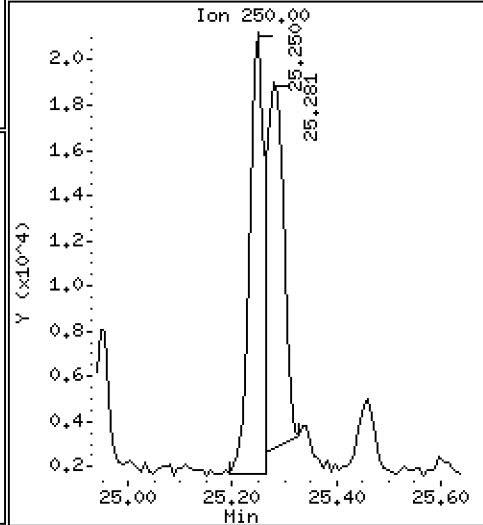
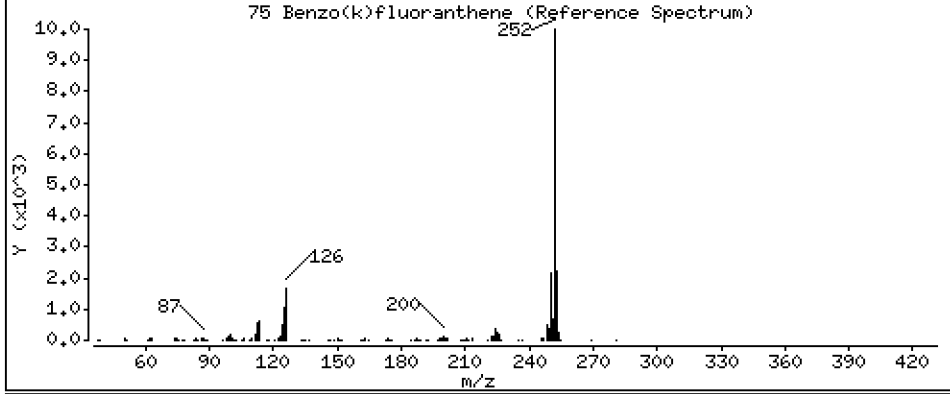
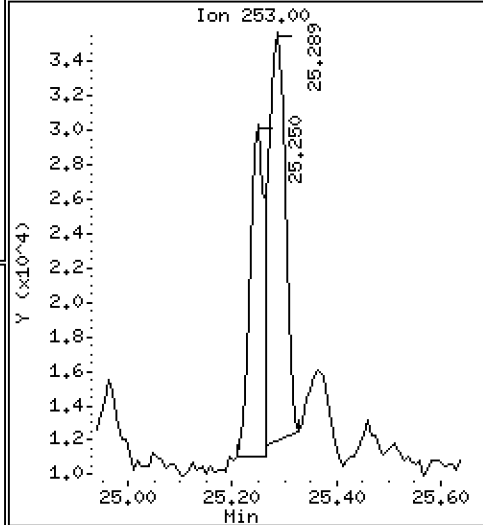
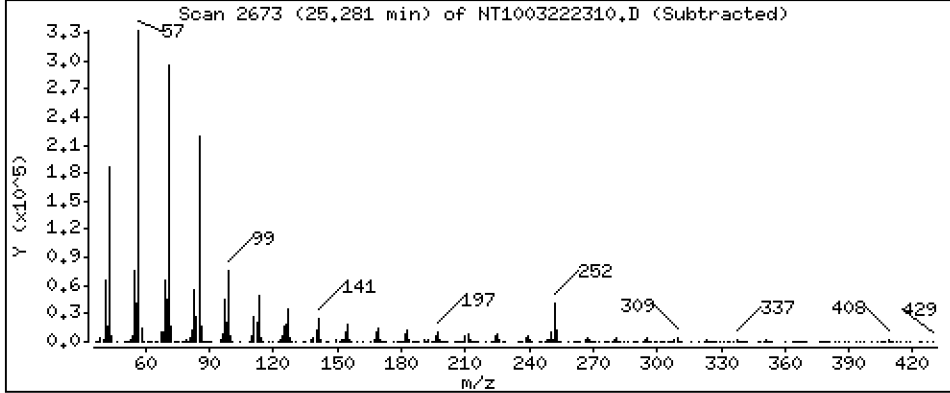
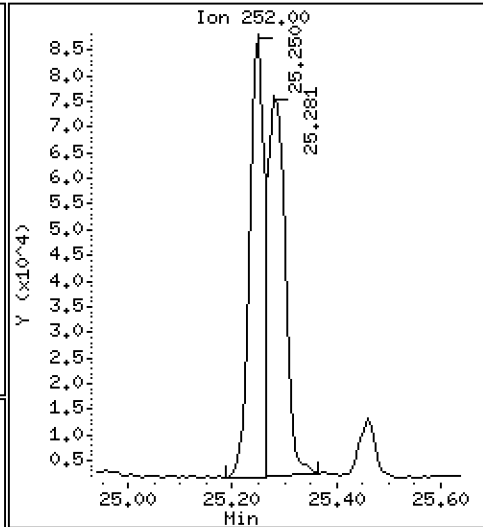
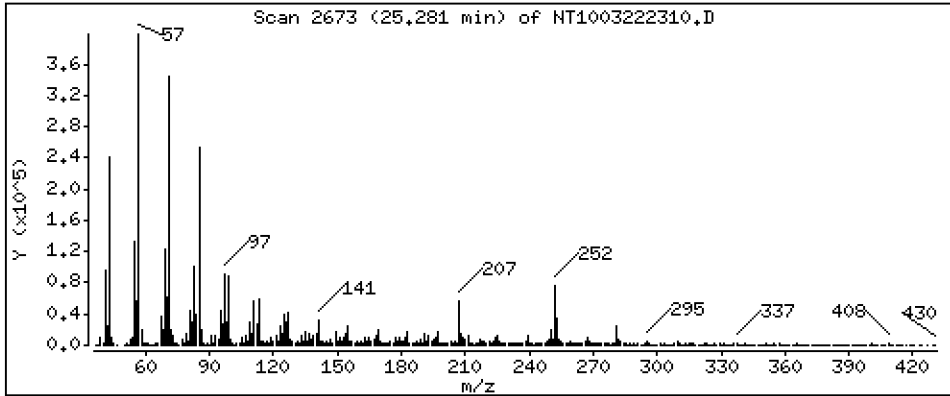
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,8077 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

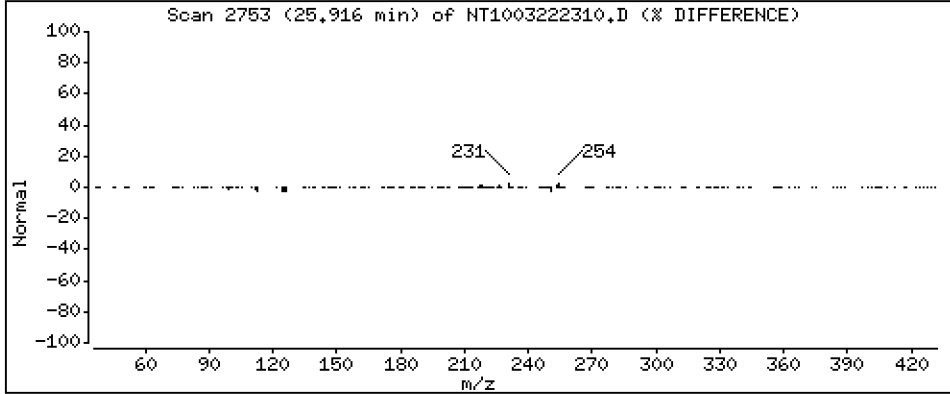
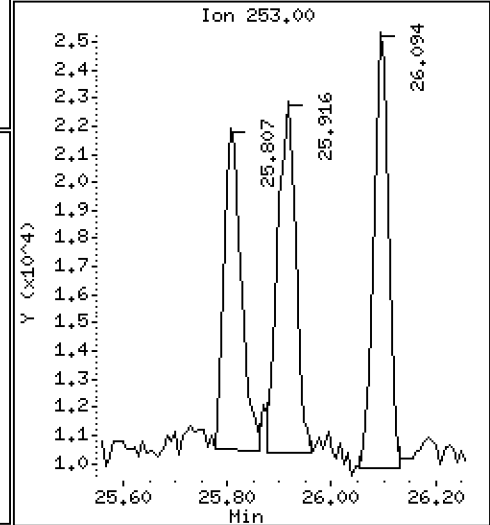
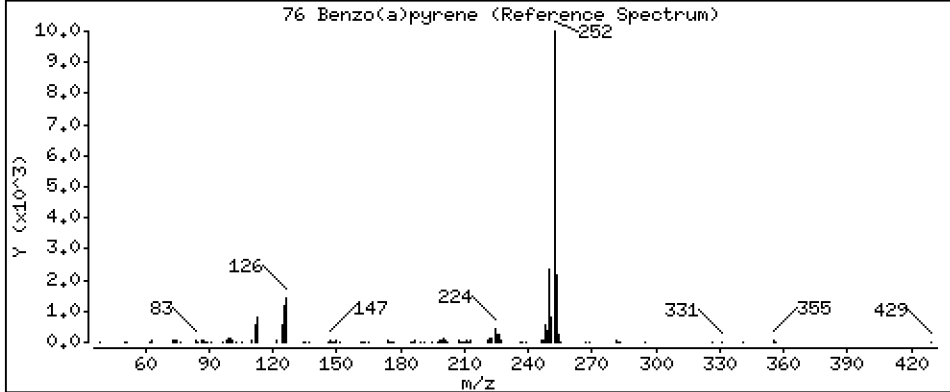
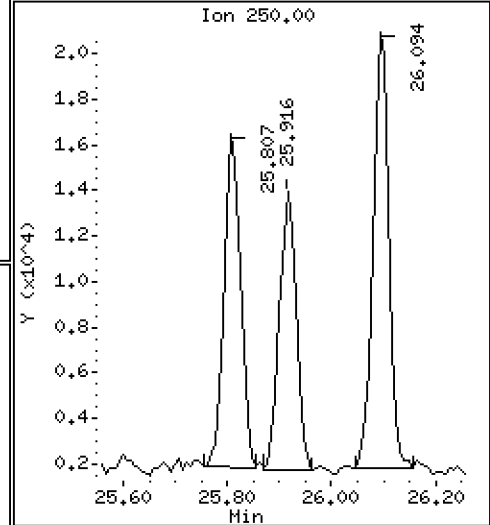
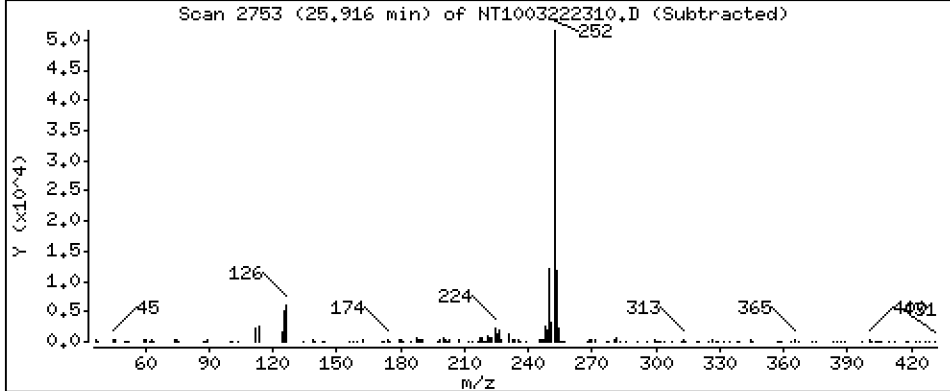
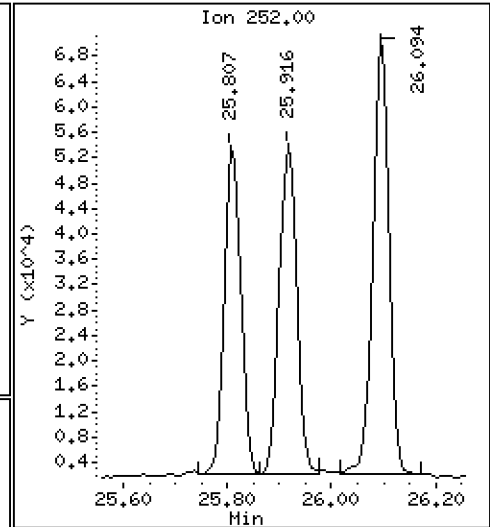
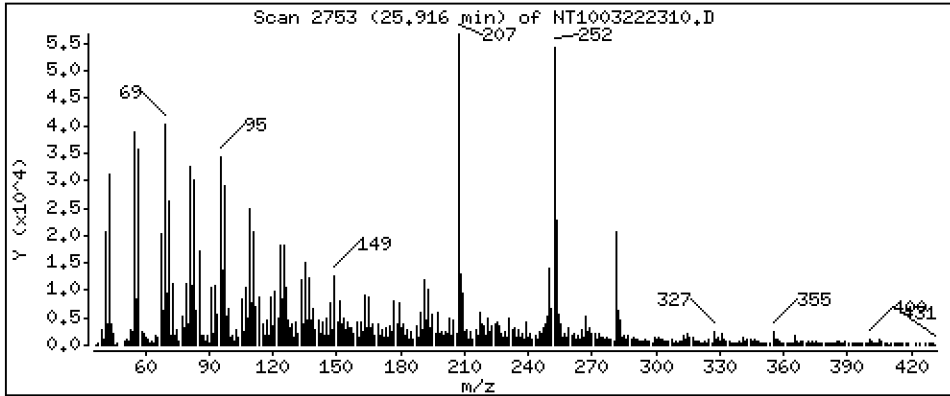
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,6201 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

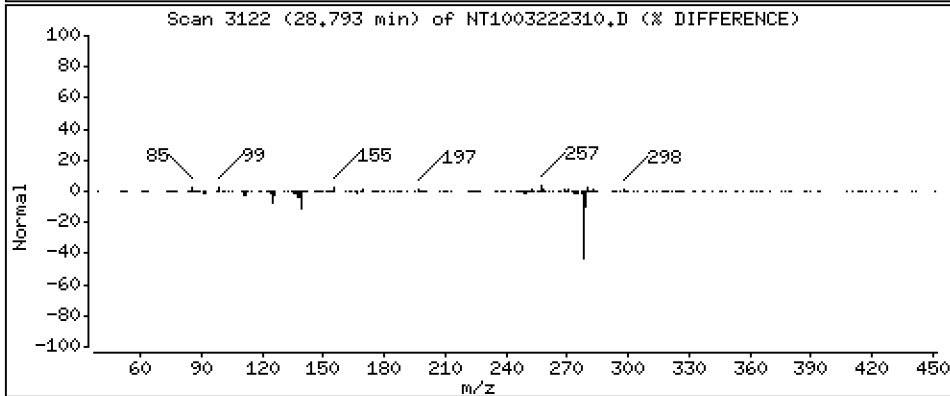
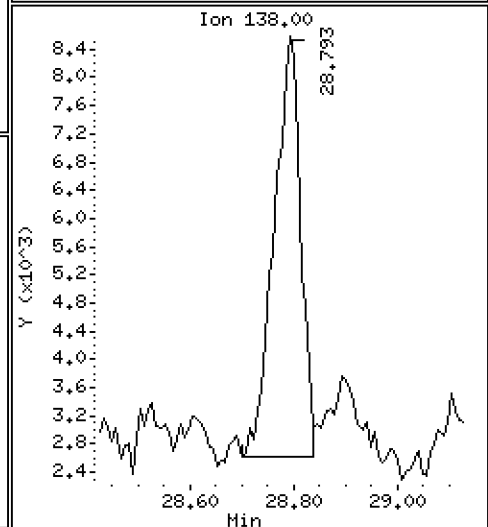
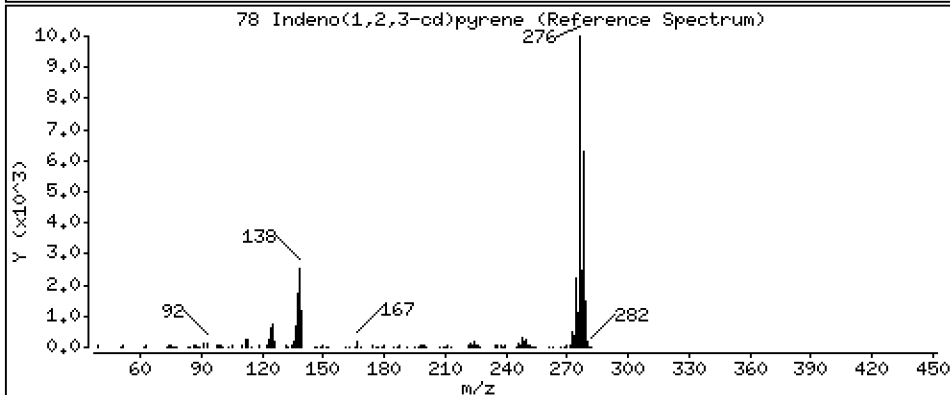
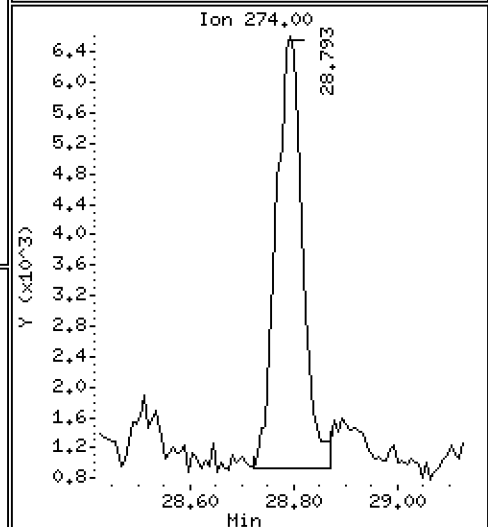
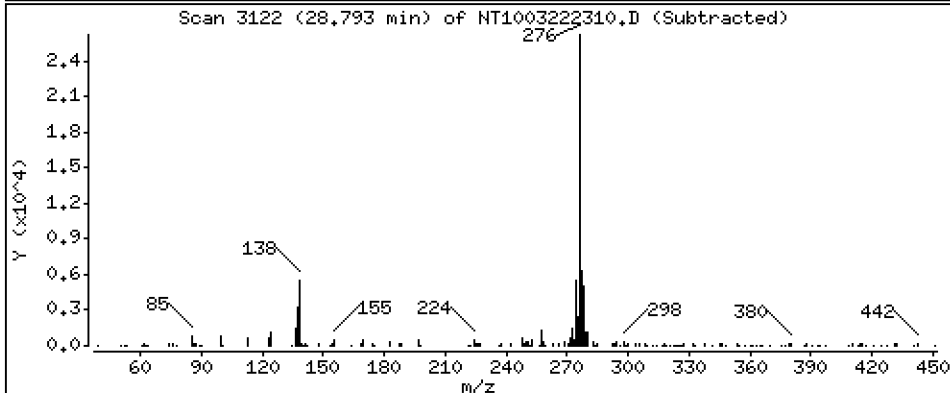
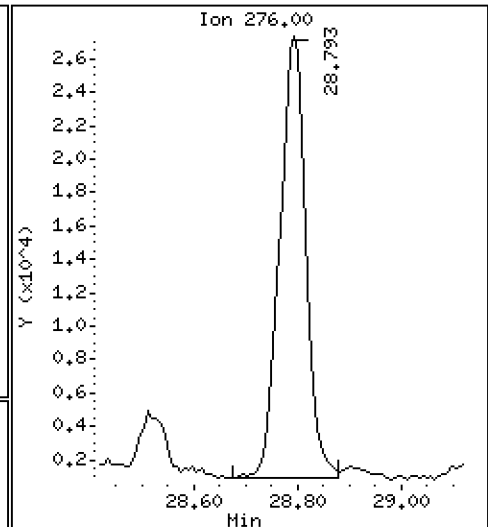
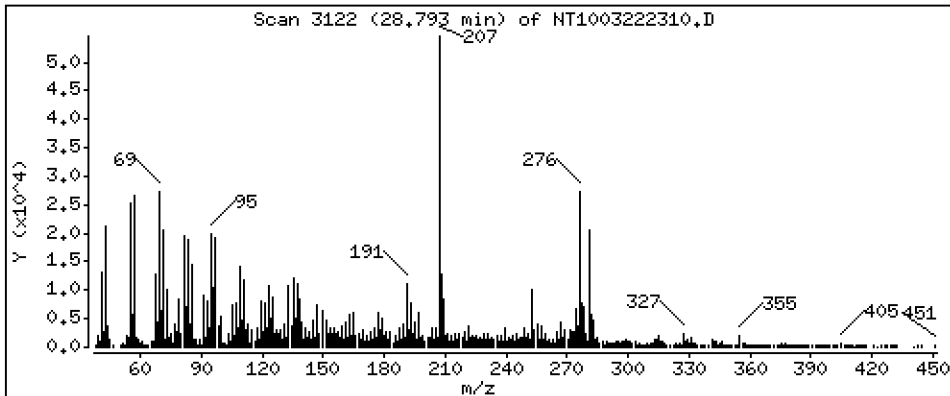
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,3815 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

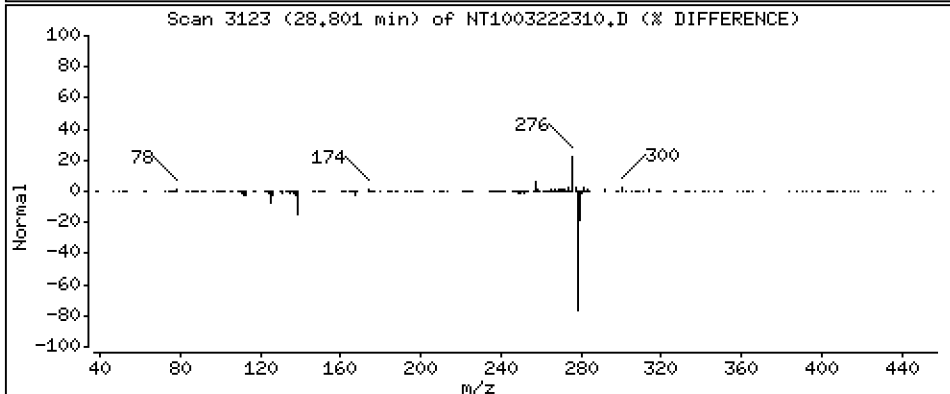
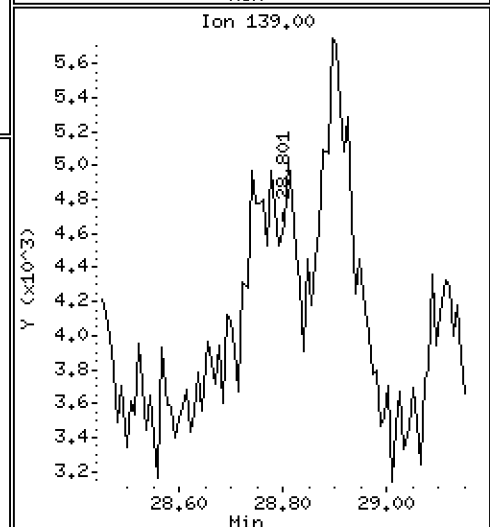
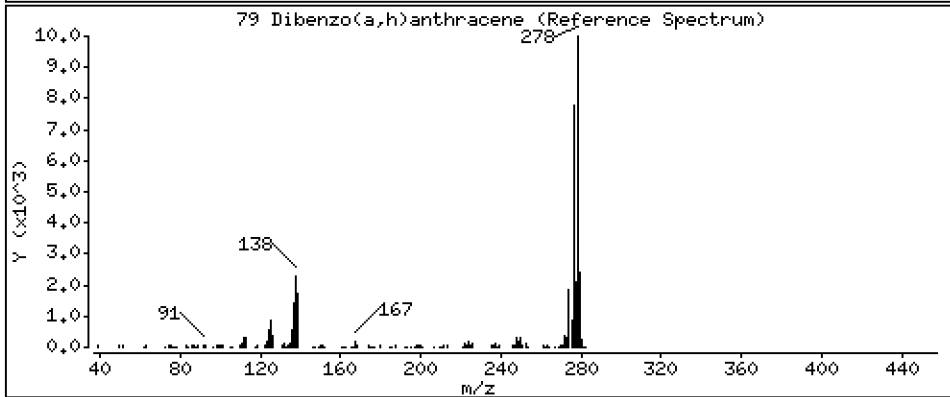
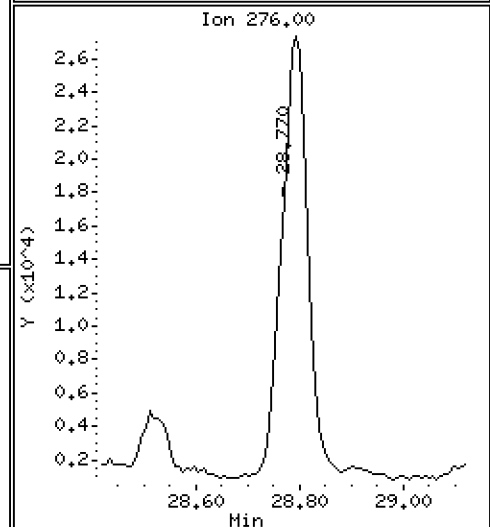
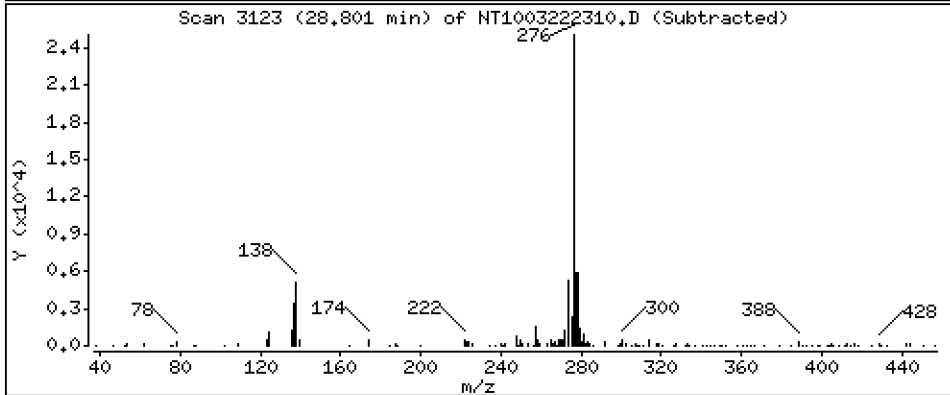
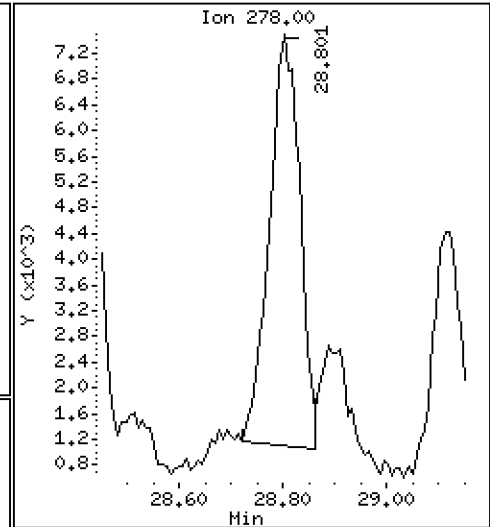
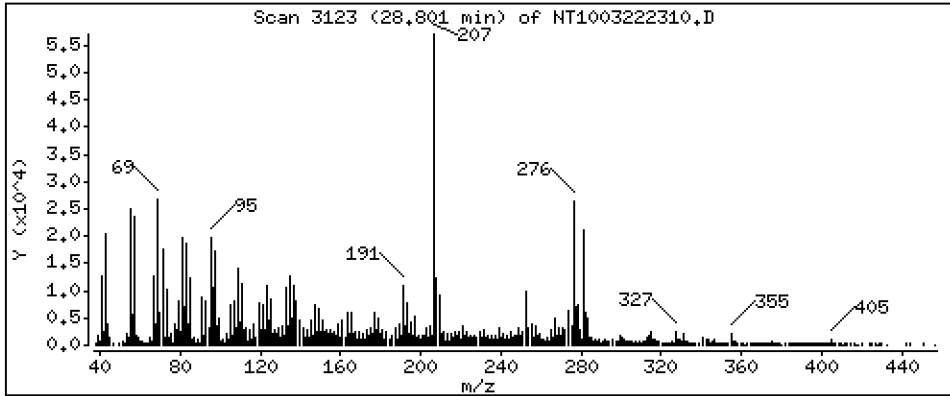
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1276 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

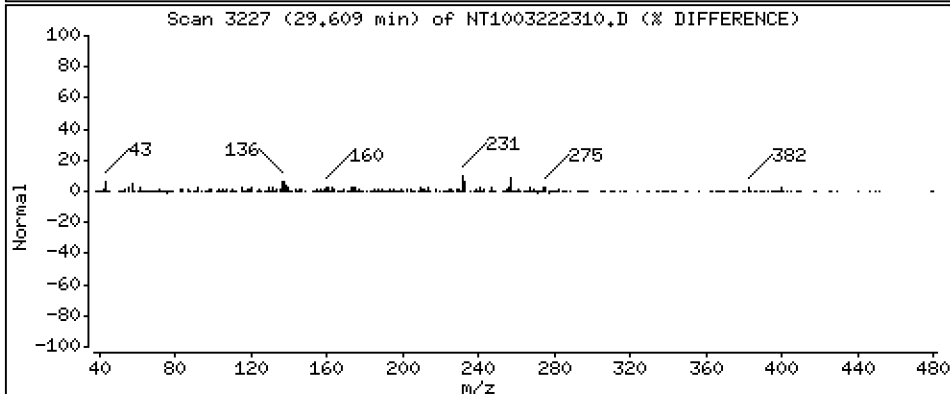
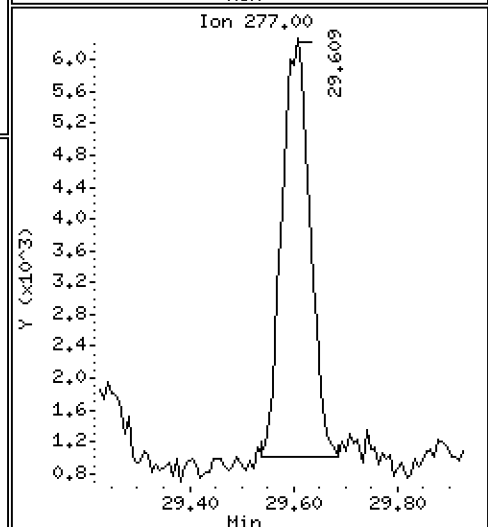
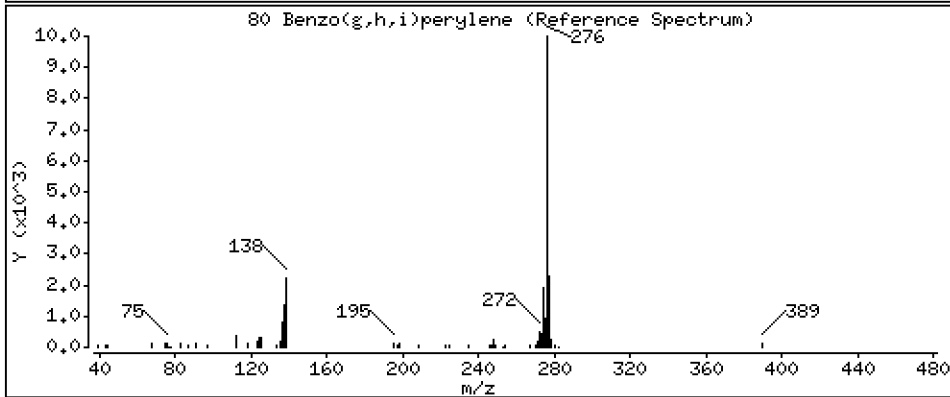
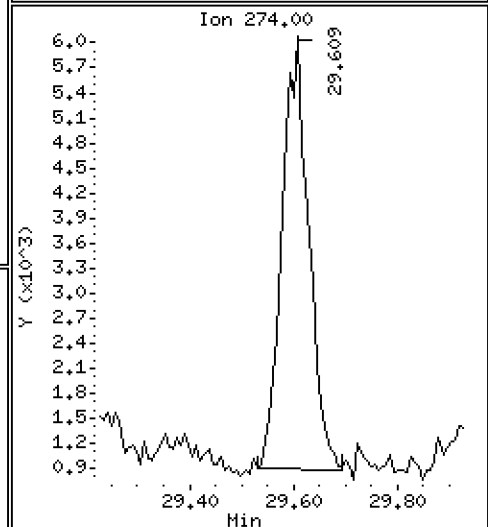
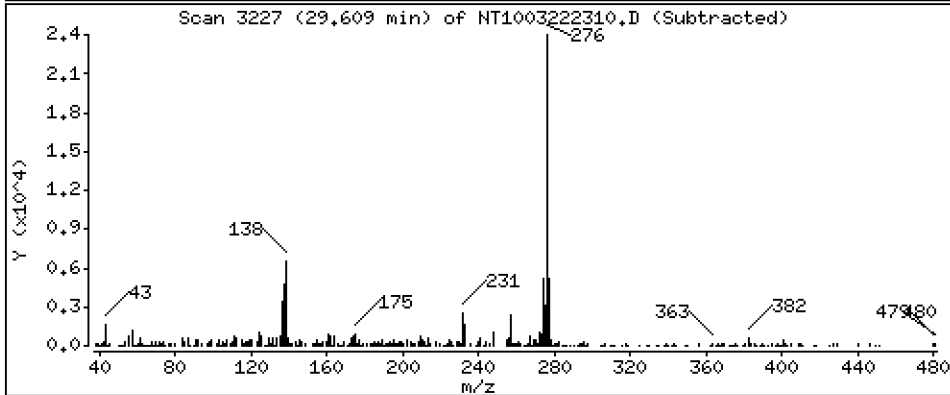
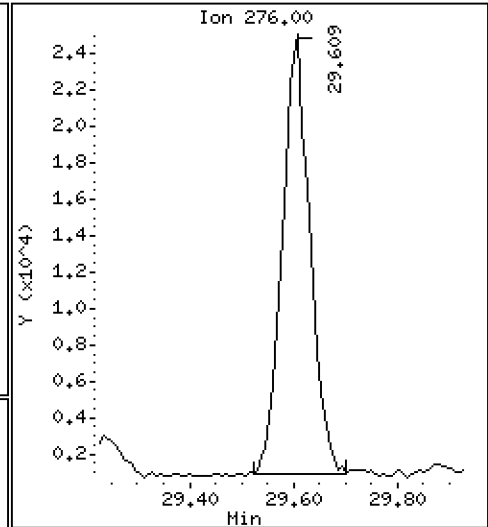
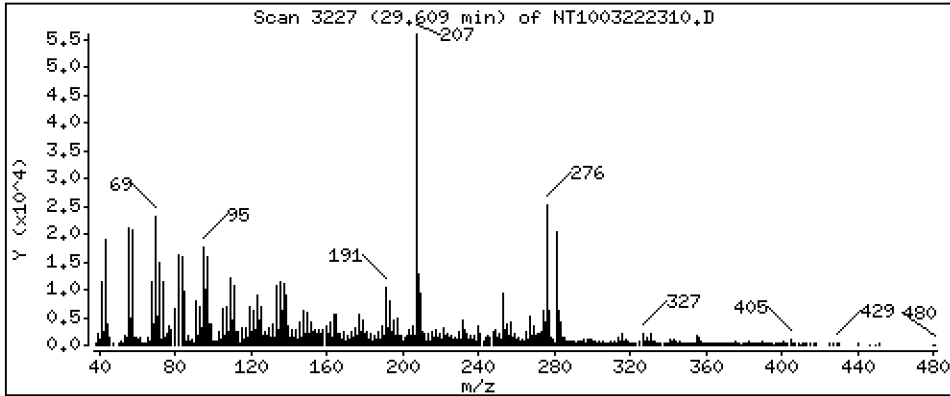
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,4280 ug/mL





Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

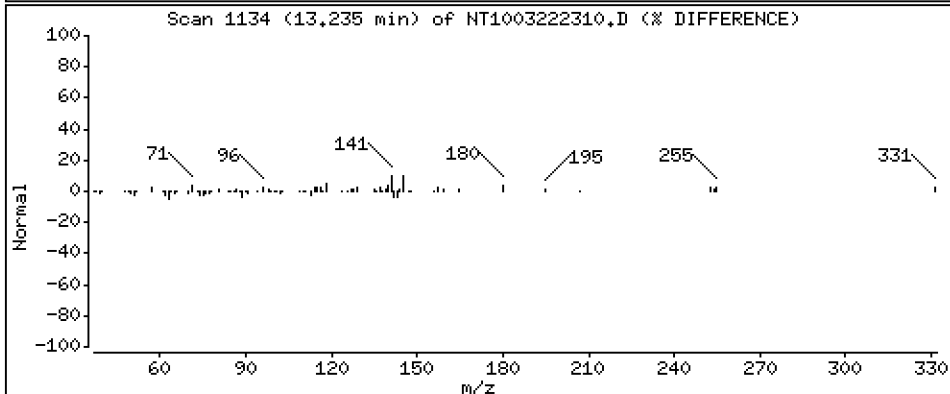
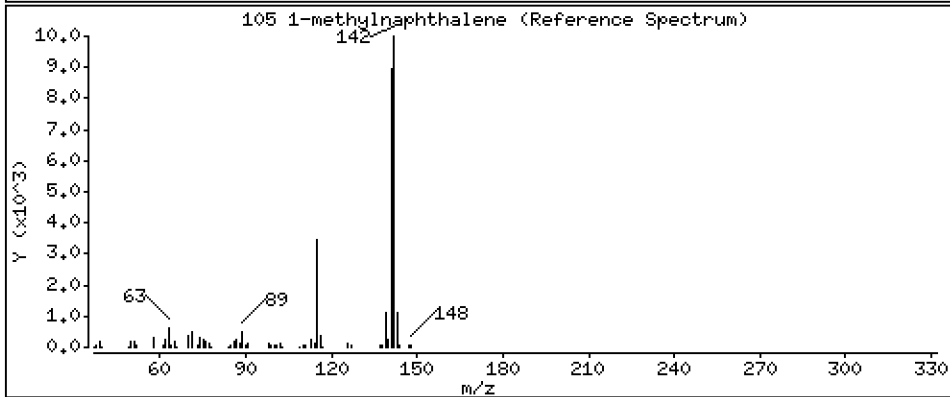
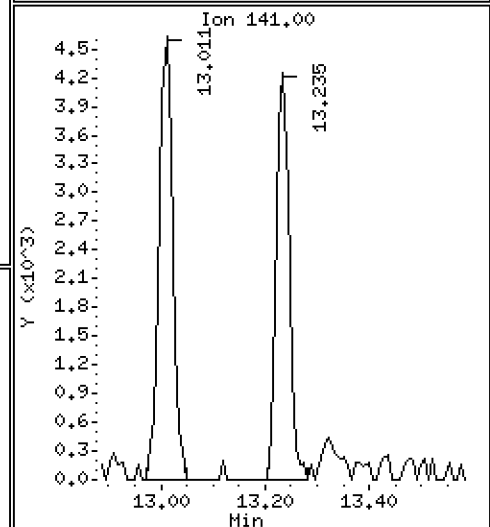
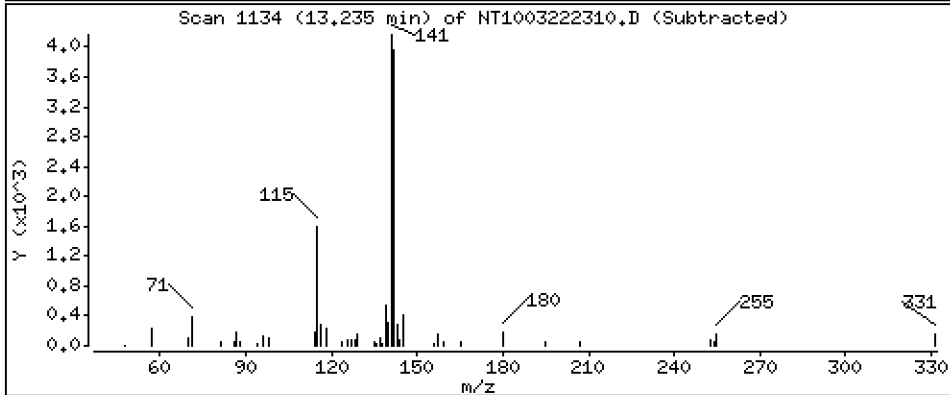
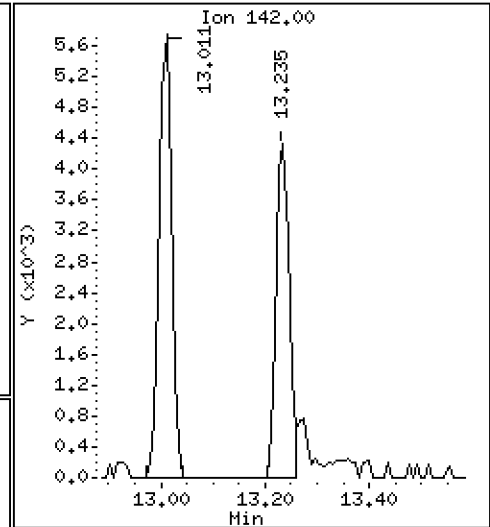
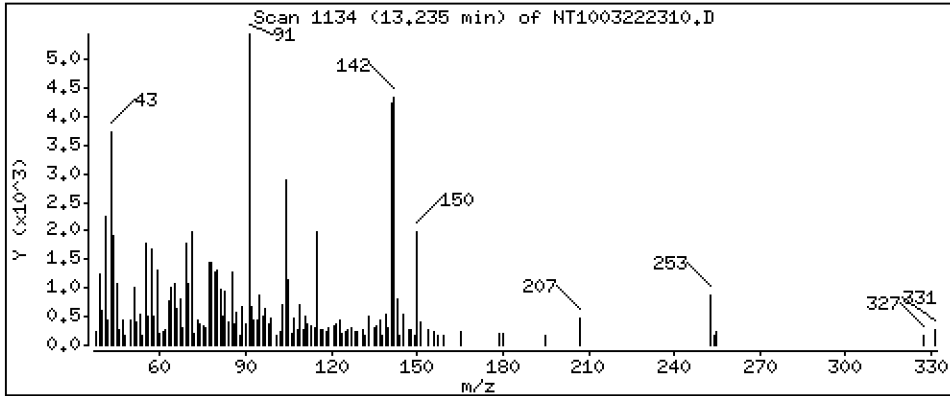
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,07055 ug/mL



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01RE1

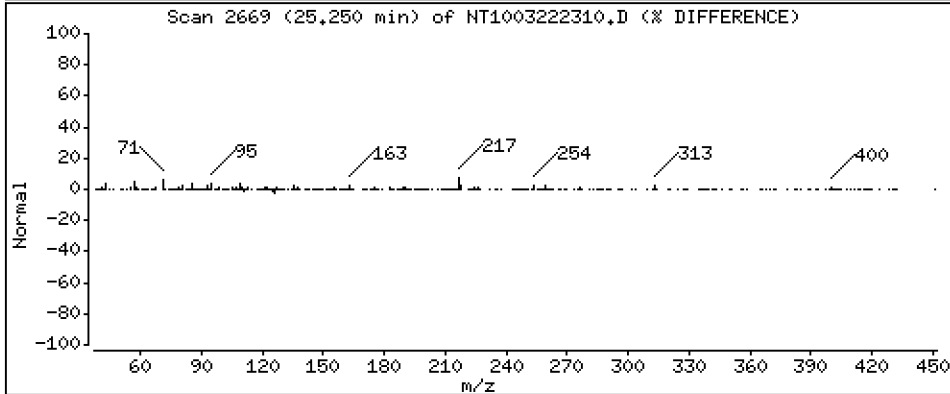
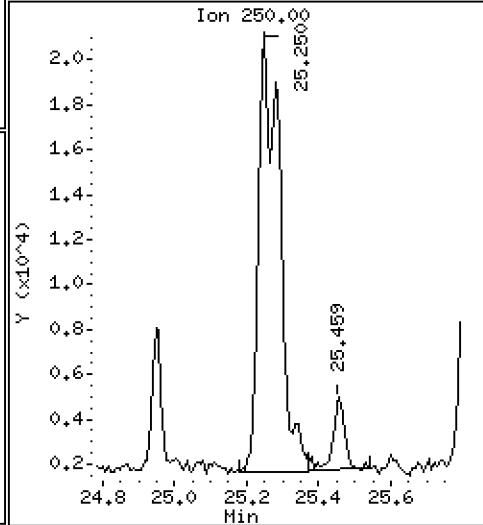
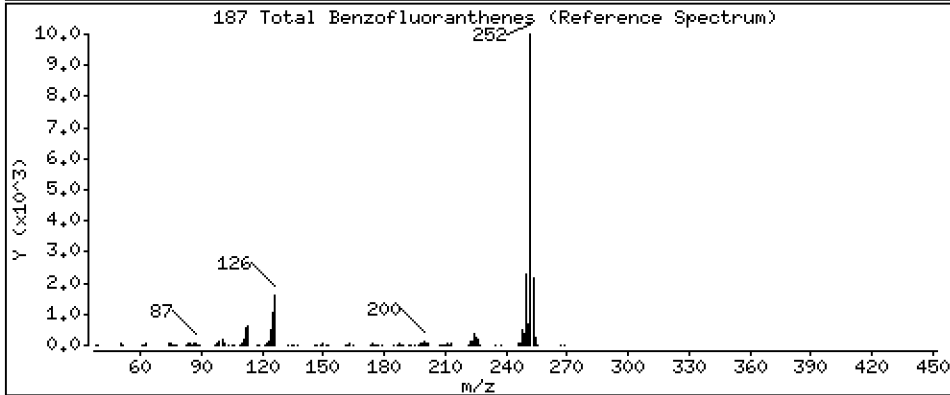
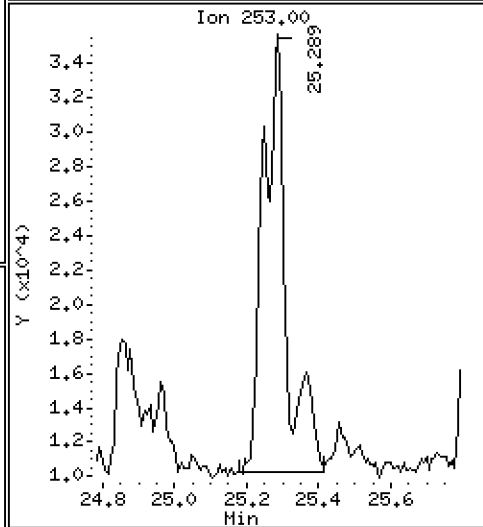
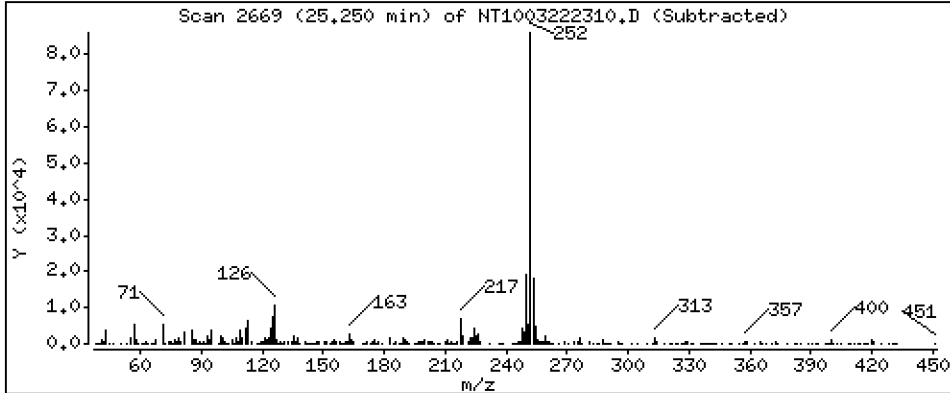
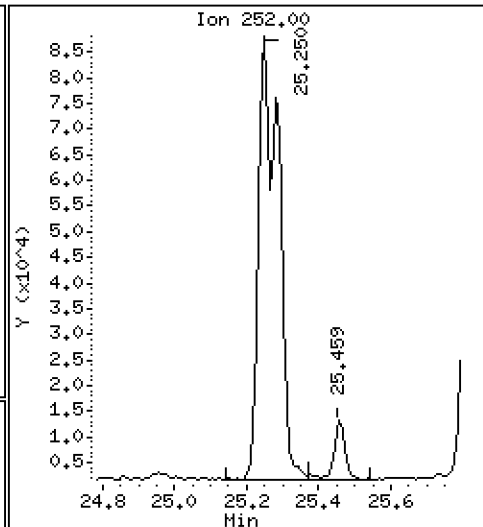
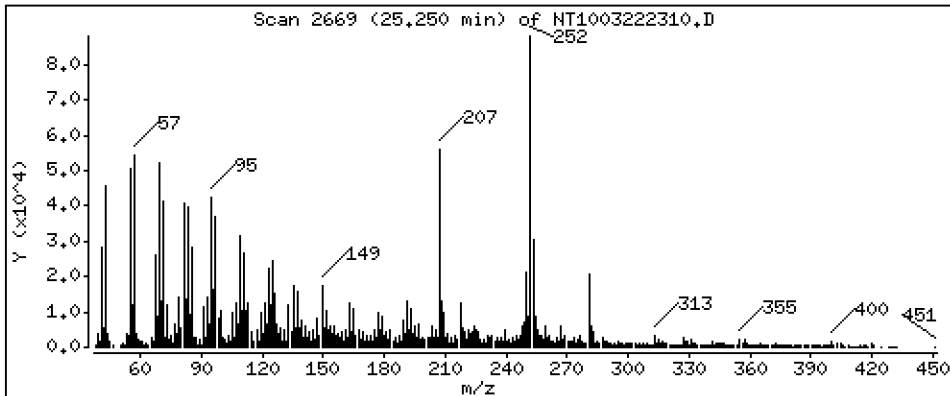
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,607 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222310.D  
 Lab Smp Id: 23A0179-01RE1  
 Inj Date : 22-MAR-2023 22:49  
 Operator : VTS  
 Smp Info : 23A0179-01RE1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 07:55 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 10  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |             |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-------------|
|                                 |       |     |                        |        |         |          | ON-COLUMN      | FINAL       |
|                                 | MASS  |     |                        |        |         |          | (ug/mL)        | (ug/mL)     |
| \$ 1 2-Fluorophenol             | 112   |     | 6.866                  | 6.851  | (0.756) | 262857   | 5.24716        | 5.247       |
| \$ 2 Phenol-d5                  | 99    |     | 8.450                  | 8.450  | (0.930) | 361971   | 5.50800        | 5.508       |
| 3 Phenol                        | 94    |     | 8.473                  | 8.473  | (0.933) | 545121   | 7.98237        | 7.982       |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.720                  | 8.721  | (0.960) | 323598   | 5.76639        | 5.766       |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | Compound Not Detected. |        |         |          |                |             |
| 6 2-Chlorophenol                | 128   |     | Compound Not Detected. |        |         |          |                |             |
| 7 1,3-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |             |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.084                  | 9.084  | (1.000) | 165652   | 4.00000        |             |
| 9 1,4-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |             |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.441                  | 9.449  | (1.039) | 145944   | 3.62132        | 3.621       |
| 12 1,2-Dichlorobenzene          | 146   |     | Compound Not Detected. |        |         |          |                |             |
| 11 Benzyl alcohol               | 108   |     | 9.356                  | 9.356  | (1.030) | 5347     | 0.16681        | 0.1668      |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | Compound Not Detected. |        |         |          |                |             |
| 13 2-Methylphenol               | 108   |     | 9.589                  | 9.589  | (1.056) | 1742     | 0.03499        | 0.03499 (M) |
| 17 Hexachloroethane             | 117   |     | Compound Not Detected. |        |         |          |                |             |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | Compound Not Detected. |        |         |          |                |             |
| 15 4-Methylphenol               | 108   |     | 9.853                  | 9.853  | (1.085) | 46783    | 0.89191        | 0.8919      |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.179                 | 10.187 | (0.880) | 228198   | 3.81173        | 3.812       |
| 19 Nitrobenzene                 | 77    |     | Compound Not Detected. |        |         |          |                |             |
| 20 Isophorone                   | 82    |     | Compound Not Detected. |        |         |          |                |             |
| 21 2-Nitrophenol                | 139   |     | Compound Not Detected. |        |         |          |                |             |
| 22 2,4-Dimethylphenol           | 107   |     | 10.901                 | 10.901 | (0.942) | 2189     | 0.04056        | 0.04056     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | Compound Not Detected. |        |         |          |                |             |
| 24 Benzoic acid                 | 105   |     | 11.011                 | 11.104 | (0.952) | 33347    | 1.11043        | 1.110       |
| 25 2,4-Dichlorophenol           | 162   |     | Compound Not Detected. |        |         |          |                |             |
| 26 1,2,4-Trichlorobenzene       | 180   |     | Compound Not Detected. |        |         |          |                |             |
| * 27 Naphthalene-d8             | 136   |     | 11.572                 | 11.572 | (1.000) | 593120   | 4.00000        |             |
| 28 Naphthalene                  | 128   |     | 11.610                 | 11.611 | (1.003) | 14264    | 0.09078        | 0.09078     |
| 29 4-Chloroaniline              | 127   |     | Compound Not Detected. |        |         |          |                |             |
| 30 Hexachlorobutadiene          | 225   |     | Compound Not Detected. |        |         |          |                |             |
| 31 4-Chloro-3-methylphenol      | 107   |     | Compound Not Detected. |        |         |          |                |             |
| 32 2-Methylnaphthalene          | 142   |     | 13.010                 | 13.011 | (1.124) | 9132     | 0.08054        | 0.08054     |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                |             |

| Compounds                         | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
|                                   |       |     |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| \$ 36 2-Fluorobiphenyl            | 172   |     | 13.792 | 13.800 | (0.908) | 532599   | 4.13316              | 4.133            |
| 37 2-Chloronaphthalene            | 162   |     |        |        |         |          |                      |                  |
| 38 2-Nitroaniline                 | 65    |     |        |        |         |          |                      |                  |
| 39 Dimethylphthalate              | 163   |     |        |        |         |          |                      |                  |
| 40 Acenaphthylene                 | 152   |     | 14.876 | 14.884 | (0.979) | 9122     | 0.05611              | 0.05611          |
| 41 2,6-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| * 42 Acenaphthene-d10             | 164   |     | 15.193 | 15.193 | (1.000) | 325756   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 44 Acenaphthene                   | 153   |     | 15.262 | 15.263 | (1.005) | 6380     | 0.06352              | 0.06352          |
| 45 2,4-Dinitrophenol              | 184   |     |        |        |         |          |                      |                  |
| 46 Dibenzofuran                   | 168   |     | 15.587 | 15.595 | (1.026) | 11749    | 0.07932              | 0.07932          |
| 47 4-Nitrophenol                  | 109   |     |        |        |         |          |                      |                  |
| 48 2,4-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| 50 Diethylphthalate               | 149   |     | 16.167 | 16.175 | (1.064) | 14468    | 0.13934              | 0.1393           |
| 49 Fluorene                       | 166   |     | 16.306 | 16.306 | (1.073) | 7667     | 0.06580              | 0.06580          |
| 51 4-Chlorophenyl-phenylether     | 204   |     |        |        |         |          |                      |                  |
| 52 4-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     |        |        |         |          |                      |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     |        |        |         |          |                      |                  |
| \$ 55 2,4,6-Tribromophenol        | 330   |     | 16.846 | 16.846 | (1.109) | 132195   | 8.72488              | 8.725            |
| 56 4-Bromophenyl-phenylether      | 248   |     |        |        |         |          |                      |                  |
| 57 Hexachlorobenzene              | 284   |     |        |        |         |          |                      |                  |
| 58 Pentachlorophenol              | 266   |     |        |        |         |          |                      |                  |
| * 59 Phenanthrene-d10             | 188   |     | 18.252 | 18.253 | (1.000) | 627650   | 4.00000              |                  |
| 60 Phenanthrene                   | 178   |     | 18.299 | 18.299 | (1.003) | 73840    | 0.43144              | 0.4314           |
| 61 Anthracene                     | 178   |     | 18.392 | 18.392 | (1.008) | 29420    | 0.17920              | 0.1792           |
| 62 Carbazole                      | 167   |     | 18.732 | 18.725 | (1.026) | 11921    | 0.08103              | 0.08103          |
| 63 Di-n-butylphthalate            | 149   |     | 19.545 | 19.545 | (1.071) | 9035     | 0.04567              | 0.04567          |
| 64 Fluoranthene                   | 202   |     | 20.751 | 20.705 | (0.889) | 213461   | 0.93605              | 0.9361           |
| 65 Pyrene                         | 202   |     | 21.146 | 21.131 | (0.906) | 267258   | 1.14246              | 1.142            |
| \$ 66 Terphenyl-d14               | 244   |     | 21.432 | 21.425 | (0.918) | 701615   | 3.99374              | 3.994            |
| 67 Butylbenzylphthalate           | 149   |     | 22.369 | 22.369 | (0.958) | 13868    | 0.16883              | 0.1688           |
| 68 Benzo(a)anthracene             | 228   |     | 23.322 | 23.314 | (0.999) | 106100   | 0.52965              | 0.5296           |
| * 69 Chrysene-d12                 | 240   |     | 23.345 | 23.345 | (1.000) | 567532   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     |        |        |         |          |                      |                  |
| 71 Chrysene                       | 228   |     | 23.391 | 23.392 | (1.002) | 140803   | 0.71945              | 0.7194           |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 23.415 | 23.407 | (0.959) | 127299   | 0.88148              | 0.8815           |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 24.421 | 24.413 | (1.000) | 986968   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149   |     |        |        |         |          |                      |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 25.249 | 25.242 | (0.970) | 179672   | 0.82975              | 0.8297           |
| 75 Benzo(k)fluoranthene           | 252   |     | 25.280 | 25.288 | (0.971) | 177605   | 0.80775              | 0.8077           |
| 76 Benzo(a)pyrene                 | 252   |     | 25.915 | 25.908 | (0.995) | 120053   | 0.62012              | 0.6201           |
| * 77 Perylene-d12                 | 264   |     | 26.039 | 26.024 | (1.000) | 668016   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 28.792 | 28.769 | (1.106) | 93975    | 0.38154              | 0.3815           |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 28.800 | 28.800 | (1.106) | 26093    | 0.12760              | 0.1276 (M)       |
| 80 Benzo(g,h,i)perylene           | 276   |     | 29.608 | 29.577 | (1.137) | 91233    | 0.42801              | 0.4280           |
| 90 N-Nitrosodimethylamine         | 74    |     |        |        |         |          |                      |                  |
| 91 Aniline                        | 93    |     |        |        |         |          |                      |                  |
| 93 Benzidine                      | 184   |     |        |        |         |          |                      |                  |
| 103 Pyridine                      | 79    |     |        |        |         |          |                      |                  |
| 105 1-methylnaphthalene           | 142   |     | 13.235 | 13.235 | (1.144) | 7330     | 0.07055              | 0.07055          |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     |        |        |         |          |                      |                  |

| Compounds                     | QUANT<br>MASS | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|---------------|-----|------------------------|--------|---------|----------|----------------------|------------------|
|                               |               |     |                        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252           |     | 25.249                 | 25.288 | (0.970) | 336067   | 1.60742              | 1.607            |
| 120 2,3,4,6-Tetrachlorophenol | 232           |     | Compound Not Detected. |        |         |          |                      |                  |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 22-MAR-2023  
 Lab File ID: NT1003222310.D Calibration Time: 17:42  
 Lab Smp Id: 23A0179-01RE1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 122478   | 61239      | 244956  | 165652 | 35.25 |
| 27 Naphthalene-d8     | 459261   | 229631     | 918522  | 593120 | 29.15 |
| 42 Acenaphthene-d10   | 264106   | 132053     | 528212  | 325756 | 23.34 |
| 59 Phenanthrene-d10   | 503255   | 251628     | 1006510 | 627650 | 24.72 |
| 69 Chrysene-d12       | 437735   | 218868     | 875470  | 567532 | 29.65 |
| 134 Di-n-octylphthala | 700191   | 350096     | 1400382 | 986968 | 40.96 |
| 77 Perylene-d12       | 499049   | 249525     | 998098  | 668016 | 33.86 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.08     | 8.58     | 9.58  | 9.08   | -0.00 |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.57  | -0.00 |
| 42 Acenaphthene-d10   | 15.19    | 14.69    | 15.69 | 15.19  | -0.00 |
| 59 Phenanthrene-d10   | 18.25    | 17.75    | 18.75 | 18.25  | -0.00 |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.35  | -0.00 |
| 134 Di-n-octylphthala | 24.41    | 23.91    | 24.91 | 24.42  | 0.03  |
| 77 Perylene-d12       | 26.02    | 25.52    | 26.52 | 26.04  | 0.06  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222310.D

Lab ID: 23A0179-01RE1  
nt10.i, 20230322.b\ABN.m, 22-MAR-2023 22:49

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND     |
|-------|---------|---------|--------------|
| 0.952 | 0.960   | -0.0081 | Benzoic acid |

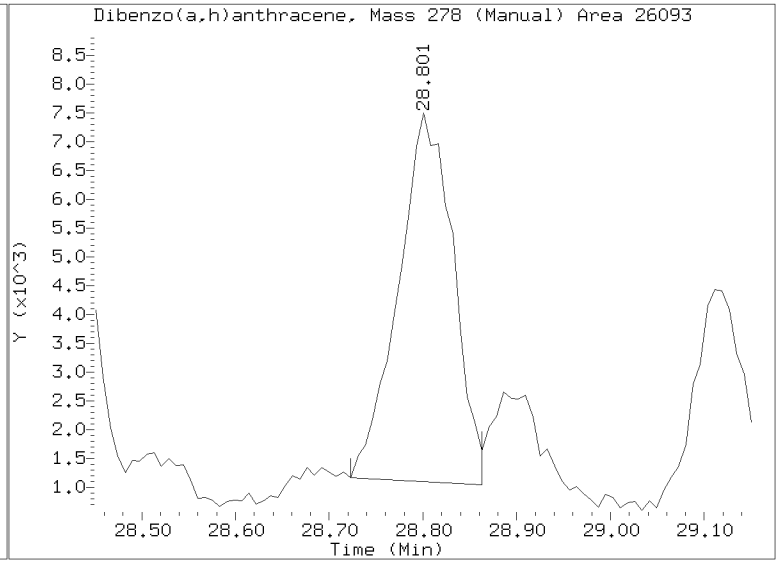
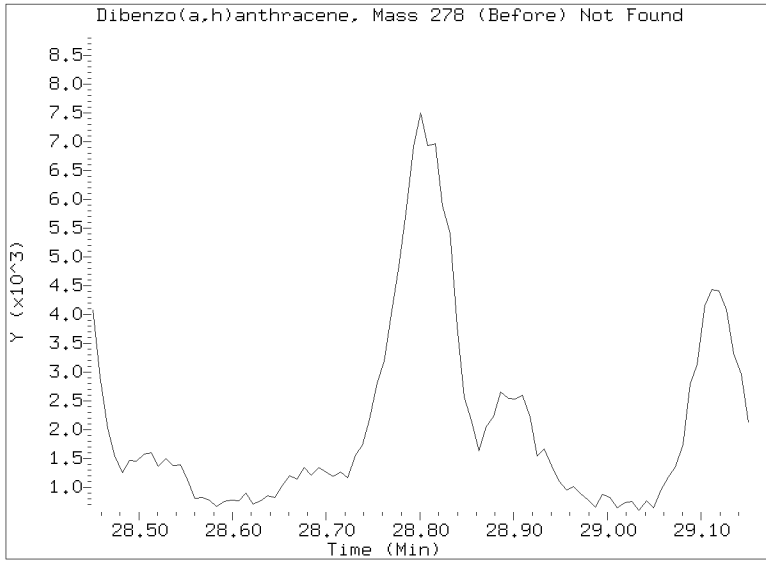
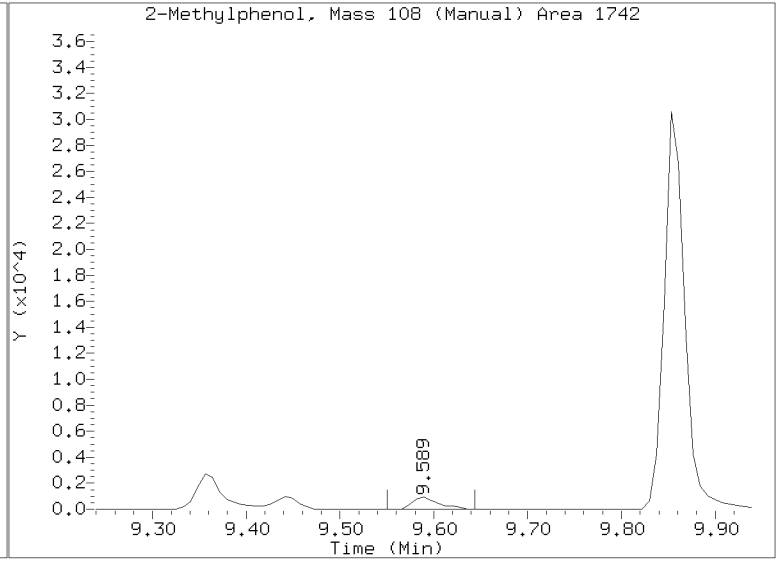
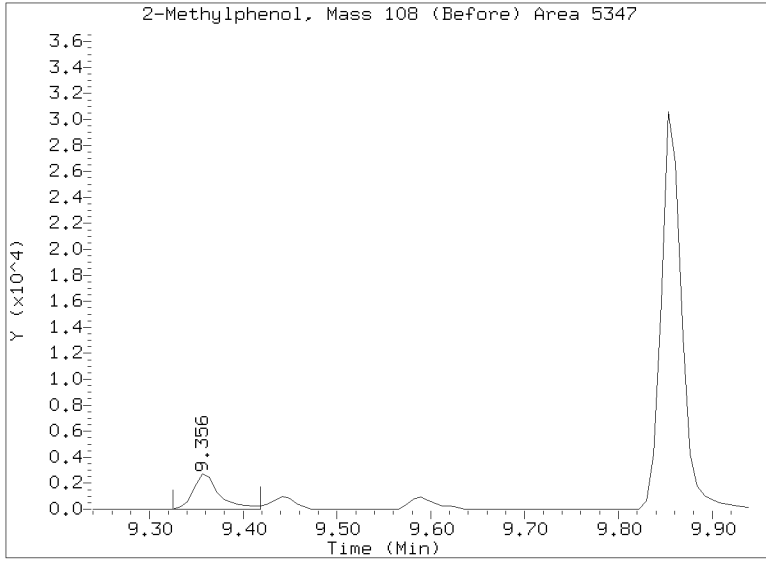
RRT check based on Ccal File: NT1003222302.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222310.D  
Injection Date: 22-MAR-2023 22:49  
Lab ID: 23A0179-01RE1 Client ID:  
Report Date: 03/25/2023 07:56







Form I  
ORGANIC ANALYSIS DATA SHEET  
EPA 8270E  
Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-02RE1 A

SDG: 23A0179

Sampled: 01/10/23 08:43

Prepared: 03/17/23 11:16

File ID: NT1003222311.D

% Solids: 66.21

Preparation: EPA 3546 (Microwave)

Analyzed: 03/22/23 23:27

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 15.11 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| CAS NO.  | COMPOUND                    | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|-----------------------------|----------|----------------------|---|------|------|
| 108-95-2 | Phenol                      | 1        | 145                  |   | 4.4  | 20.0 |
| 106-44-5 | 4-Methylphenol              | 1        | 16.0                 | J | 7.4  | 20.0 |
| 91-20-3  | Naphthalene                 | 1        | 7.5                  | J | 4.2  | 20.0 |
| 91-57-6  | 2-Methylnaphthalene         | 1        | 7.0                  | J | 4.5  | 20.0 |
| 208-96-8 | Acenaphthylene              | 1        | 20.0                 | U | 6.2  | 20.0 |
| 131-11-3 | Dimethylphthalate           | 1        | 20.0                 | U | 4.4  | 20.0 |
| 83-32-9  | Acenaphthene                | 1        | 20.0                 | U | 5.2  | 20.0 |
| 132-64-9 | Dibenzofuran                | 1        | 20.0                 | U | 14.1 | 20.0 |
| 86-73-7  | Fluorene                    | 1        | 20.0                 | U | 14.6 | 20.0 |
| 85-01-8  | Phenanthrene                | 1        | 51.0                 |   | 8.7  | 20.0 |
| 120-12-7 | Anthracene                  | 1        | 14.5                 | J | 7.2  | 20.0 |
| 206-44-0 | Fluoranthene                | 1        | 94.2                 |   | 6.1  | 20.0 |
| 129-00-0 | Pyrene                      | 1        | 106                  |   | 5.7  | 20.0 |
| 85-68-7  | Butylbenzylphthalate        | 1        | 20.0                 | U | 9.4  | 20.0 |
| 56-55-3  | Benzo(a)anthracene          | 1        | 48.7                 |   | 6.0  | 20.0 |
| 218-01-9 | Chrysene                    | 1        | 63.4                 |   | 6.1  | 20.0 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate  | 1        | 66.5                 |   | 5.5  | 50.0 |
|          | Benzo(a)fluoranthene, Total | 1        | 132                  |   | 10.0 | 40.0 |
| 50-32-8  | Benzo(a)pyrene              | 1        | 55.3                 |   | 4.2  | 20.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene      | 1        | 34.1                 |   | 14.6 | 20.0 |
| 53-70-3  | Dibenzo(a,h)anthracene      | 1        | 20.0                 | U | 17.2 | 20.0 |
| 191-24-2 | Benzo(g,h,i)perylene        | 1        | 41.6                 |   | 13.6 | 20.0 |

| SURROGATES             | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol         | 749.68                | 556                   | 74.2  | 27 - 120  |   |
| Phenol-d5              | 749.68                | 578                   | 77.1  | 29 - 120  |   |
| 2-Chlorophenol-d4      | 749.68                | 613                   | 81.7  | 31 - 120  |   |
| 1,2-Dichlorobenzene-d4 | 499.78                | 370                   | 74.1  | 32 - 120  |   |
| Nitrobenzene-d5        | 499.78                | 383                   | 76.7  | 30 - 120  |   |
| 2-Fluorobiphenyl       | 499.78                | 425                   | 85.0  | 35 - 120  |   |



**Form I**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8270E**  
**Semivolatiles (20ug/kg - 0.2ug/L SepF)**

Laboratory: Analytical Resources, LLC  
 Client: Anchor OEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment  
 Sampled: 01/10/23 08:43  
 % Solids: 66.21  
 Batch: BLC0442  
 Instrument: NT10  
 Cleanups: GPC

Laboratory ID: 23A0179-02RE1 A  
 Prepared: 03/17/23 11:16  
 Preparation: EPA 3546 (Microwave)  
 Sequence: SLC0397  
 Column: ZB-5MSi

SDG: 23A0179  
 File ID: NT1003222311.D  
 Analyzed: 03/22/23 23:27  
 Initial/Final: 15.11 g Wet / 1 mL  
 Calibration: GC00046

| SURROGATES           | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------|-----------------------|-----------------------|-------|-----------|---|
| 2,4,6-Tribromophenol | 749.68                | 901                   | 120   | 24 - 134  | Q |
| p-Terphenyl-d14      | 499.78                | 436                   | 87.2  | 37 - 120  |   |

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222311.D

Date: 22-MAR-2023 23:27

Client ID:

Sample Info: 23A0179-02RE1

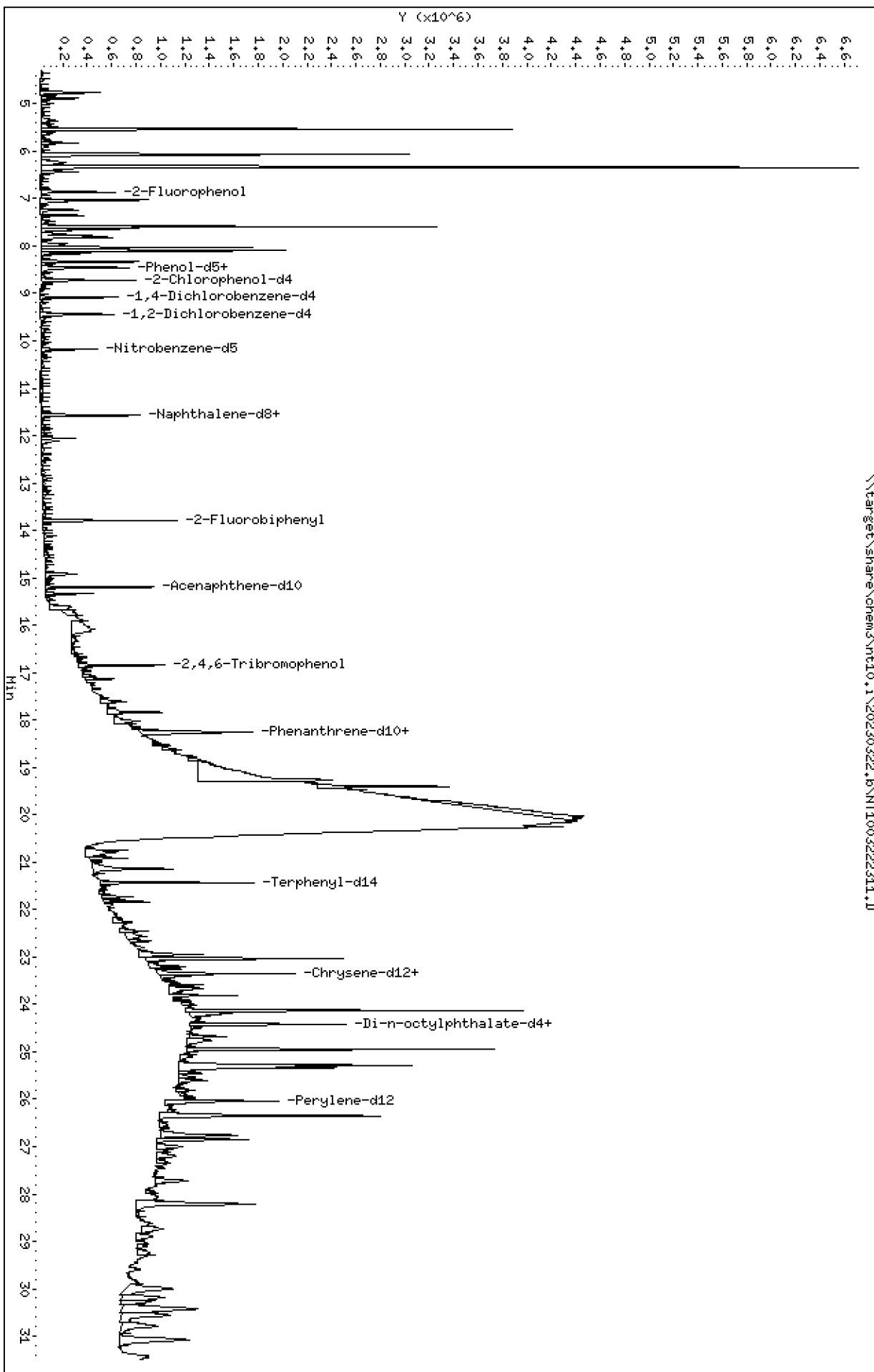
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\NT1003222311.D



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

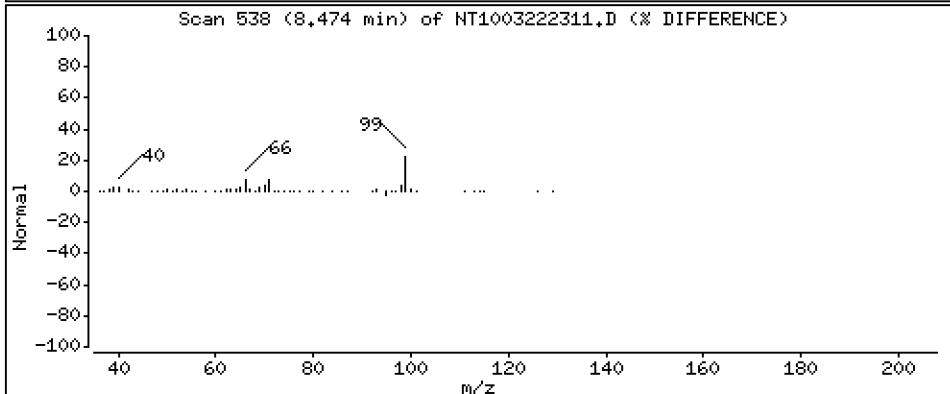
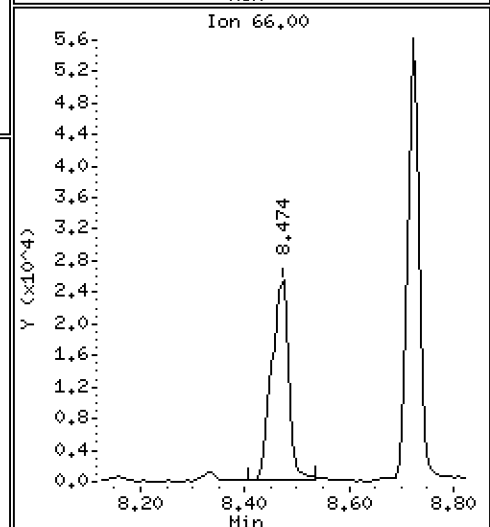
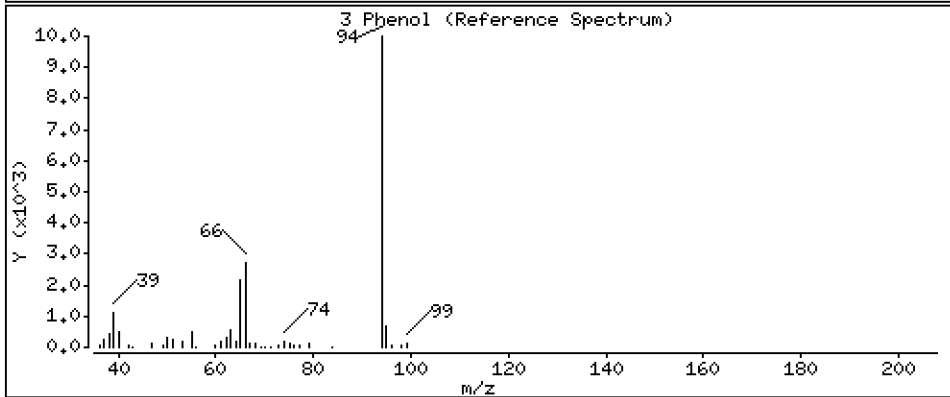
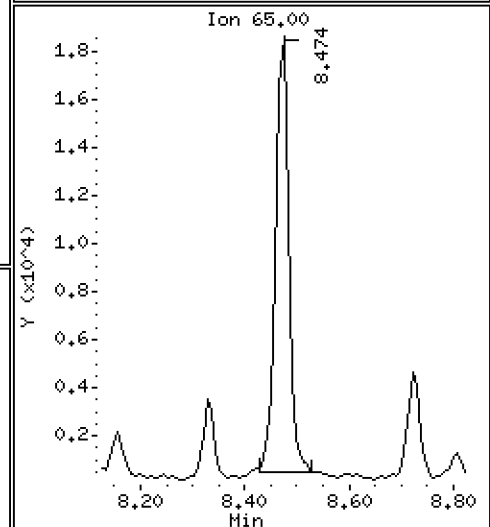
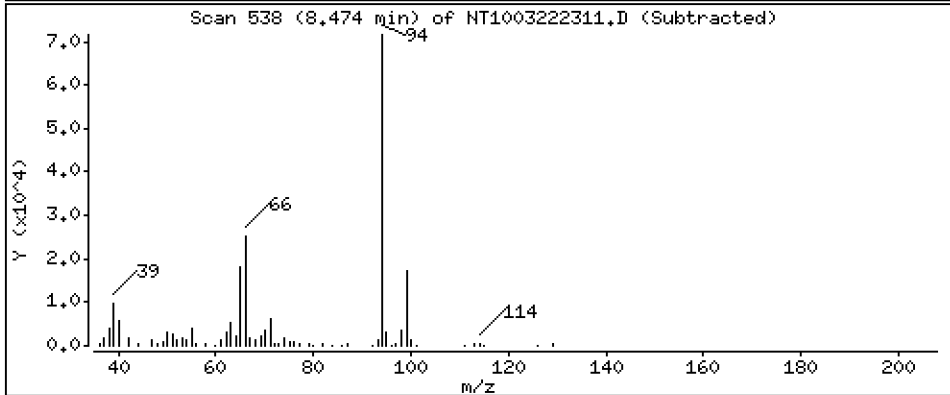
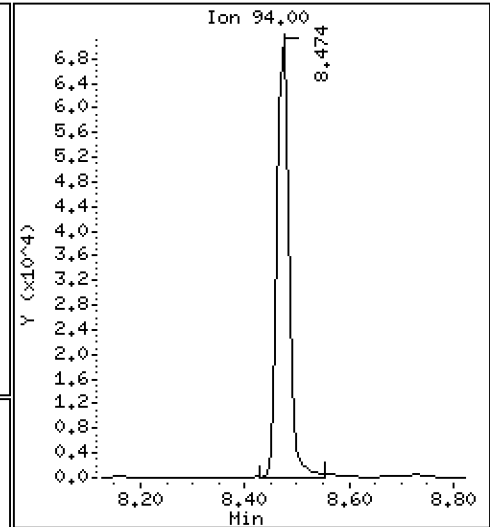
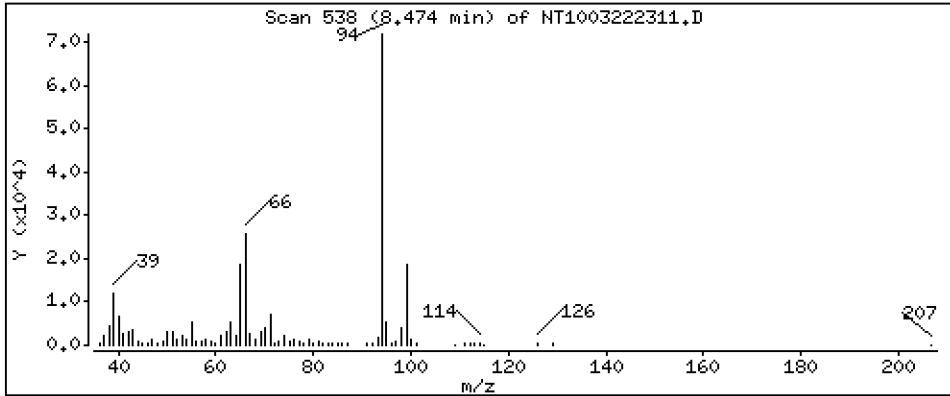
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 1,453 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

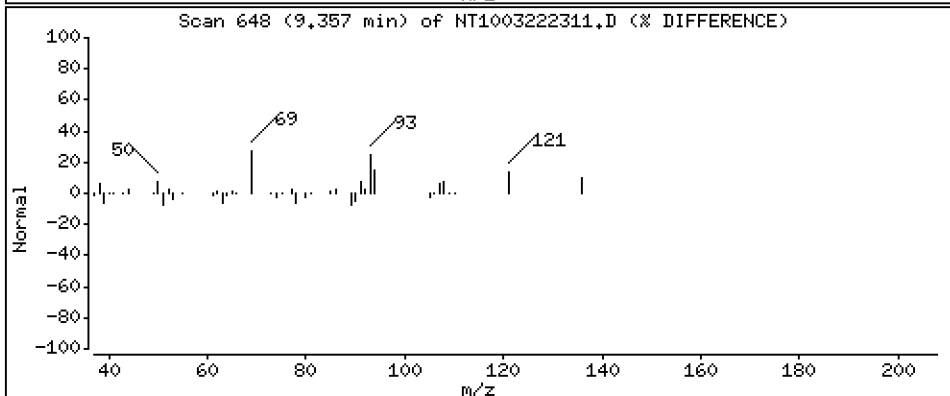
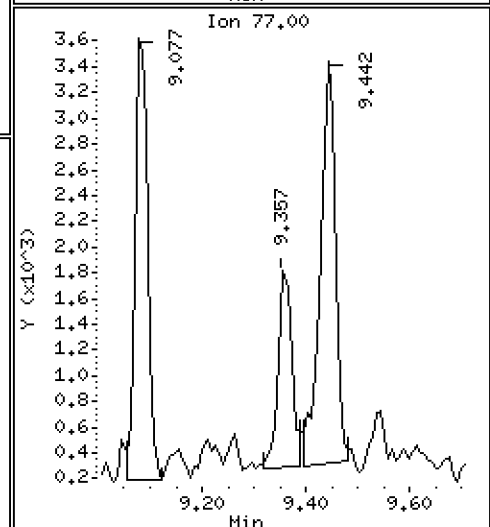
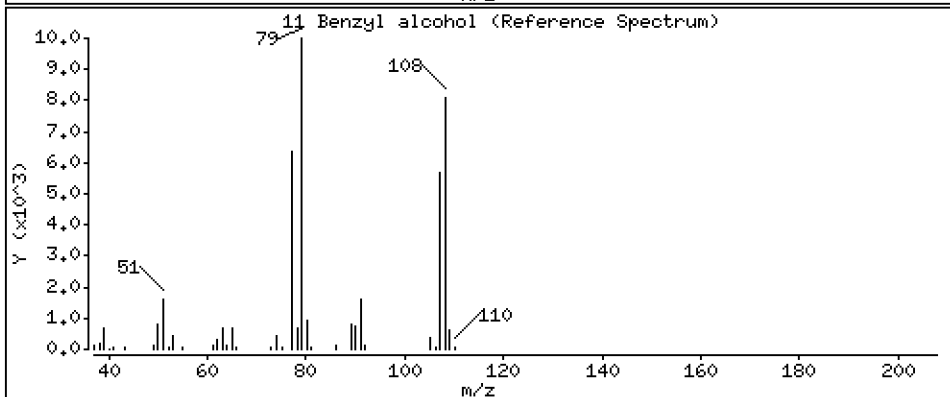
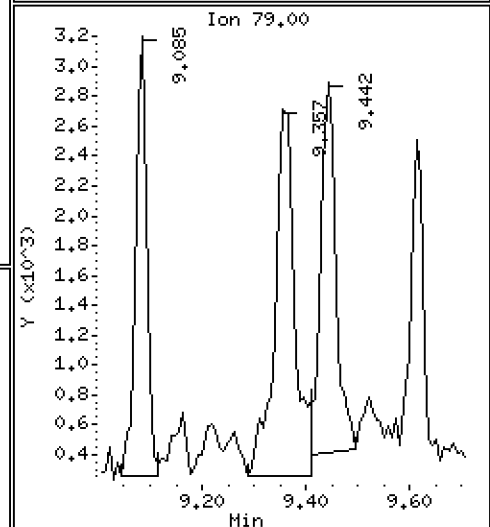
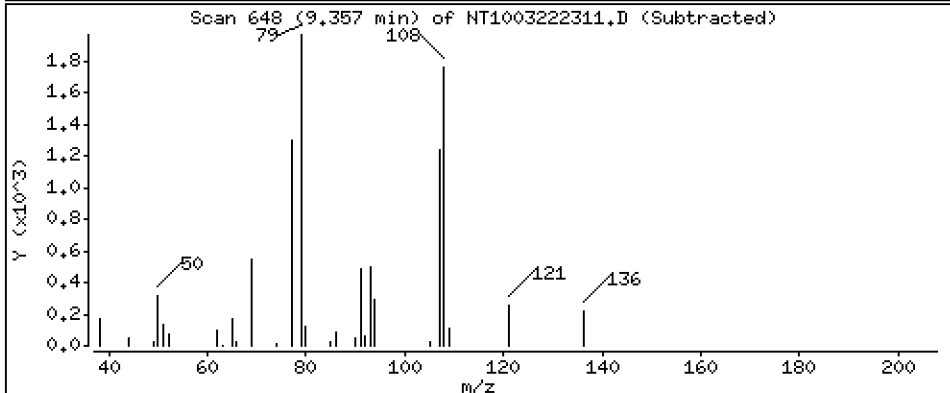
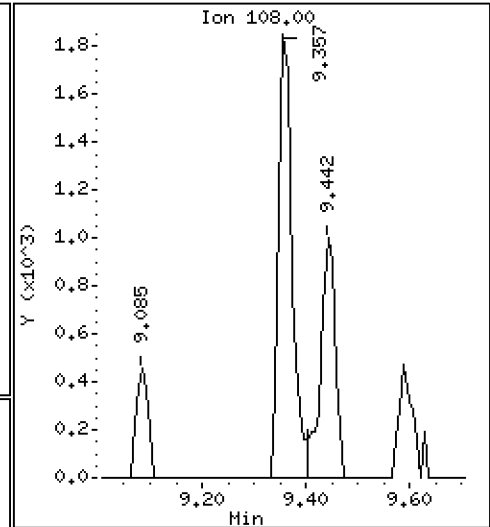
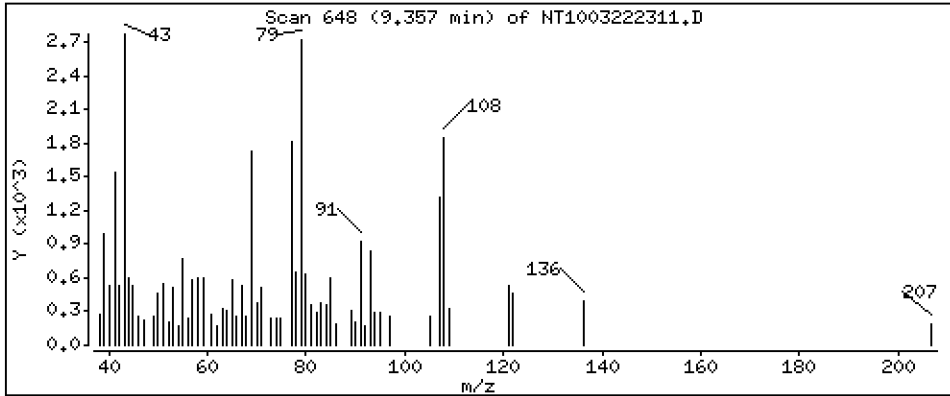
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.09238 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

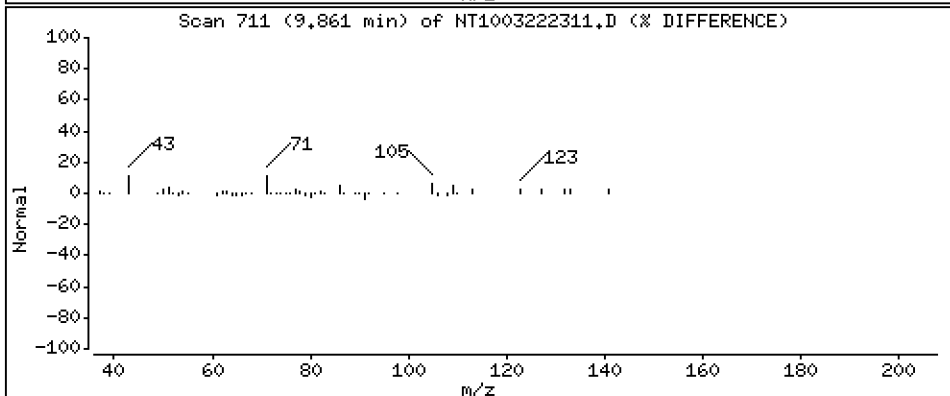
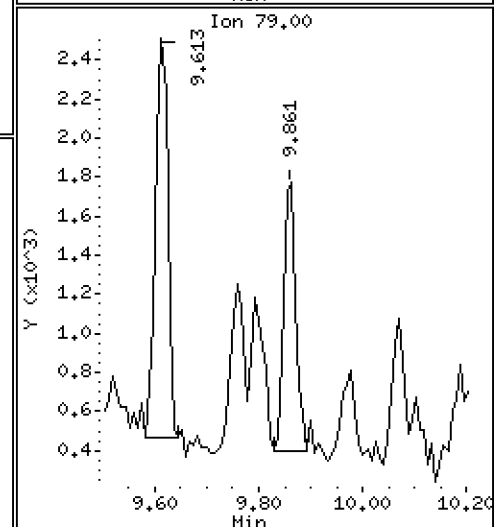
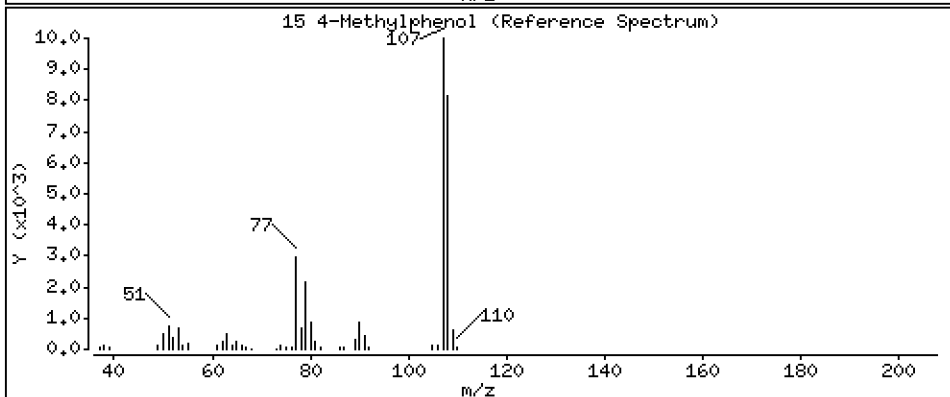
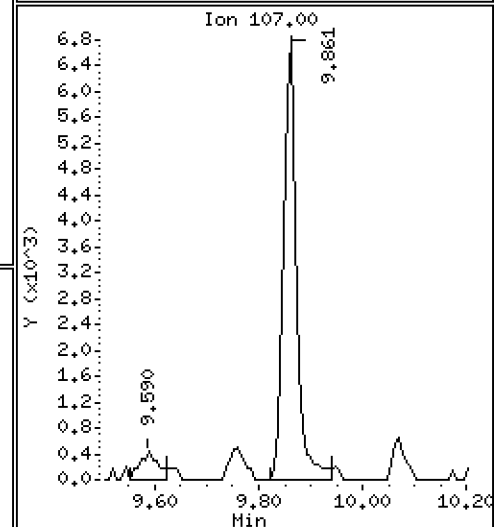
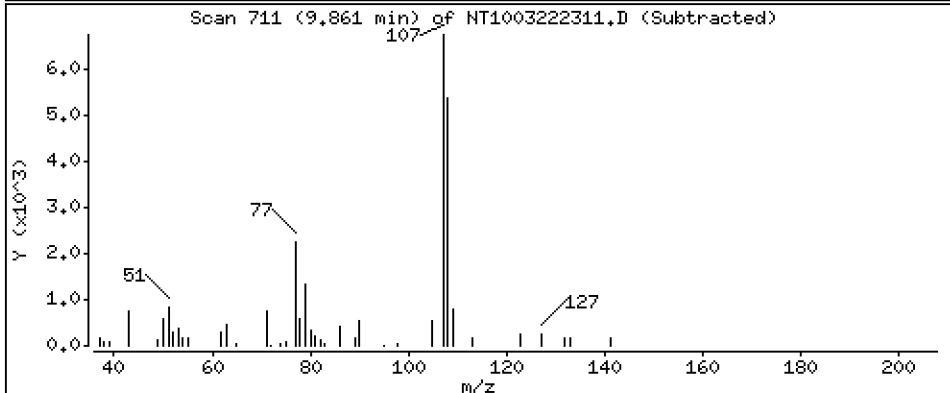
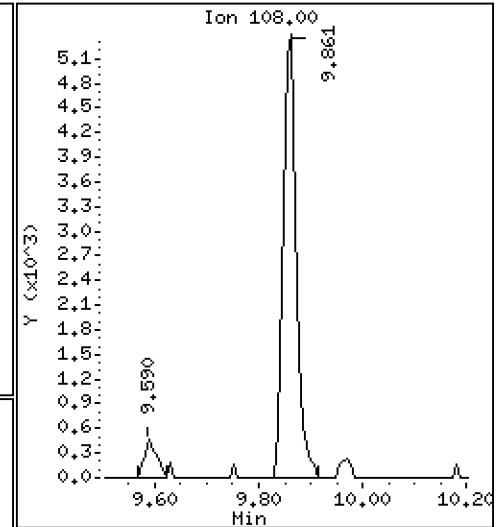
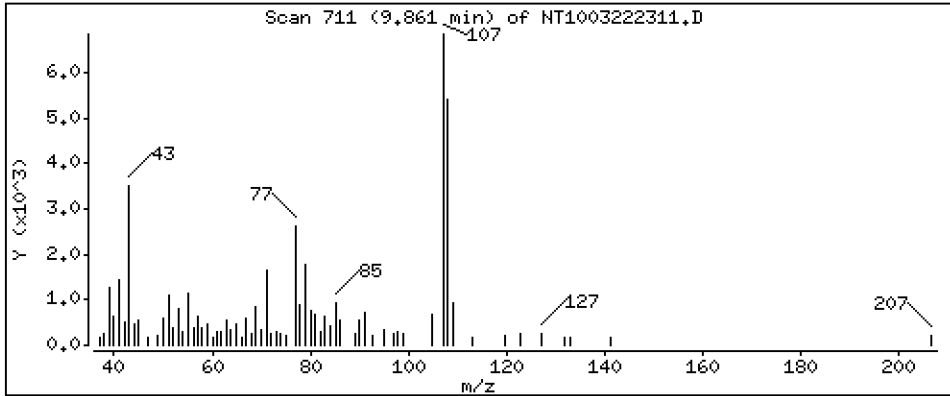
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1598 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

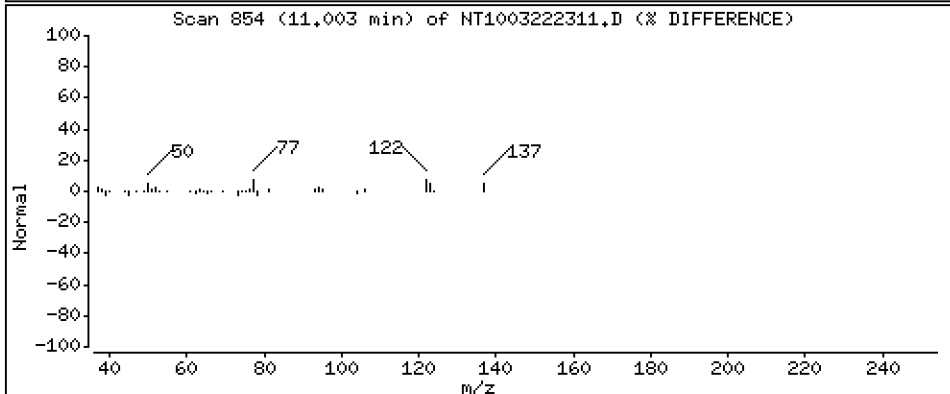
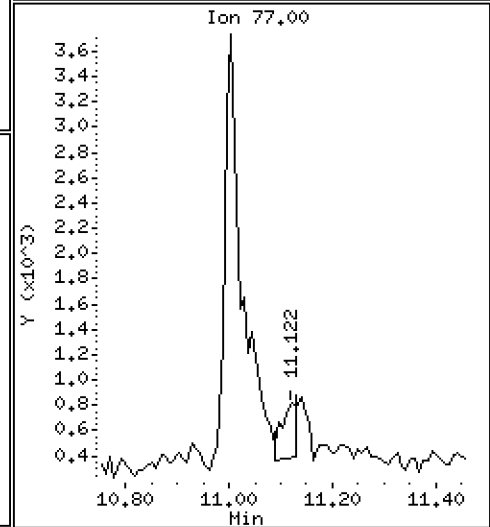
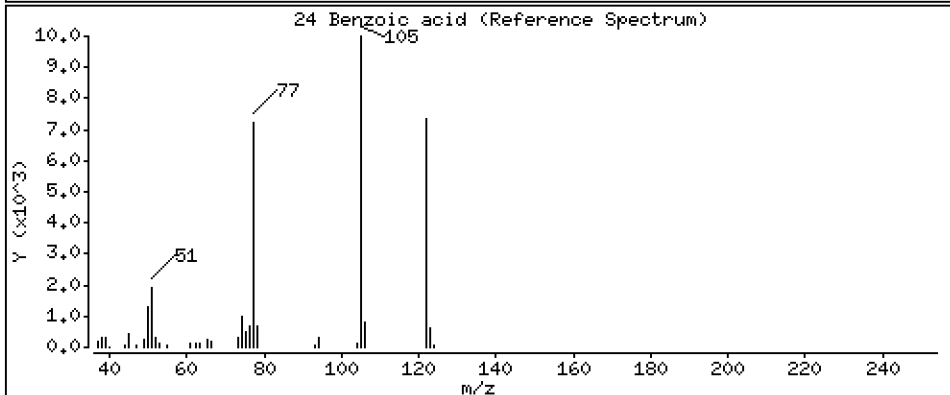
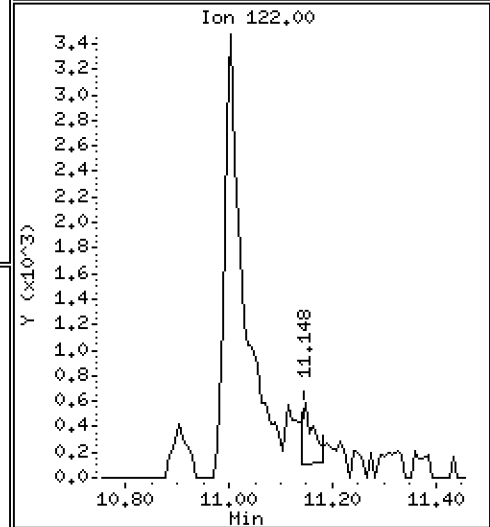
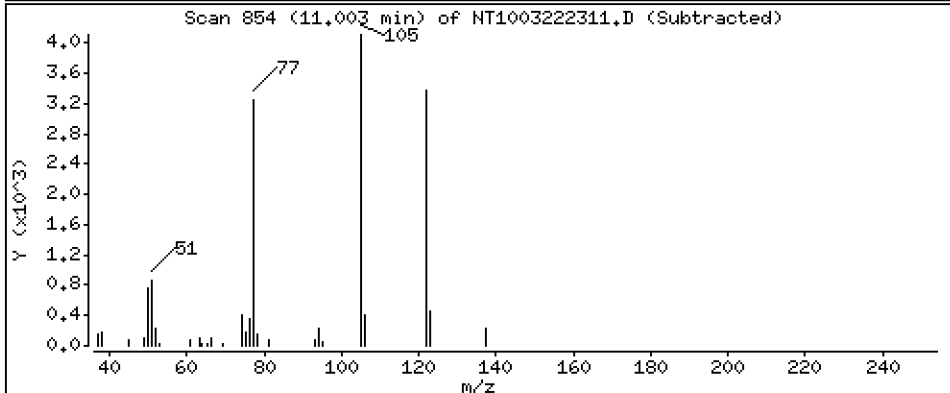
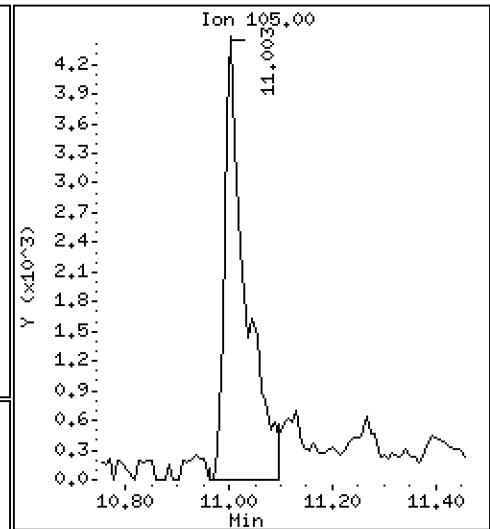
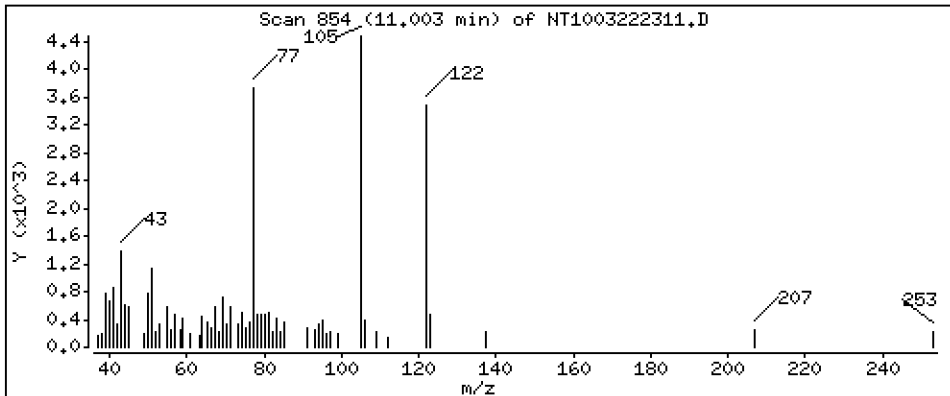
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,3917 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

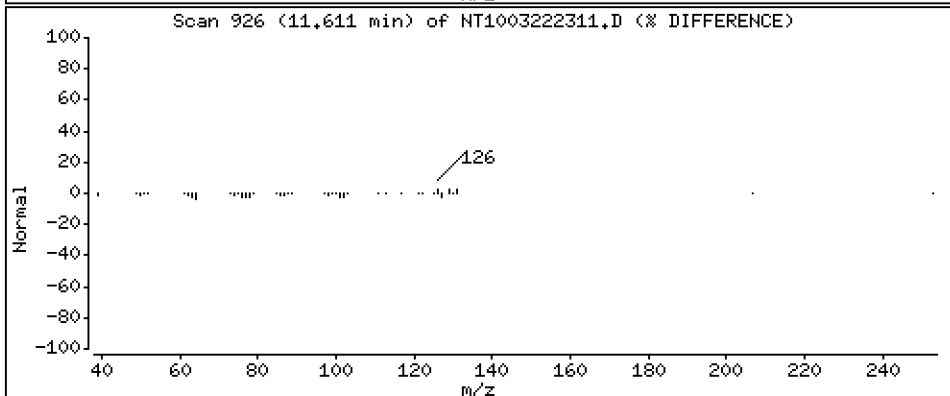
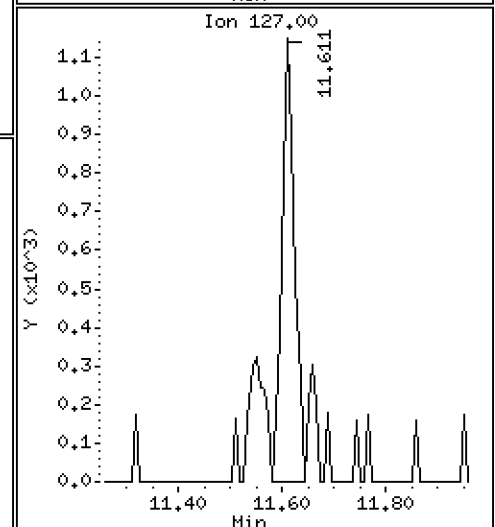
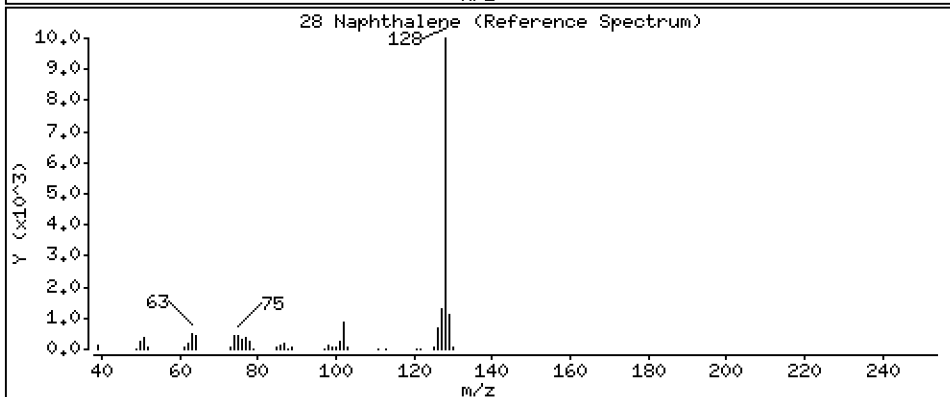
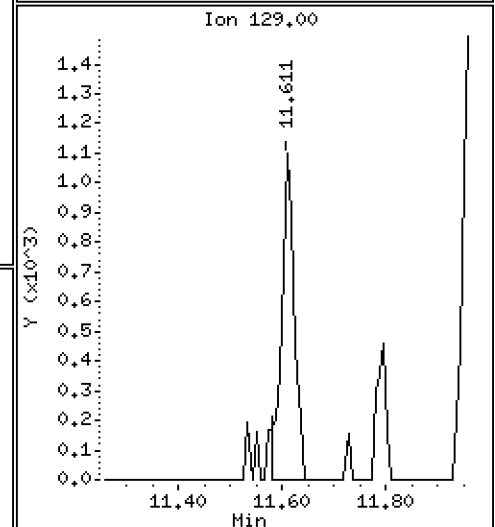
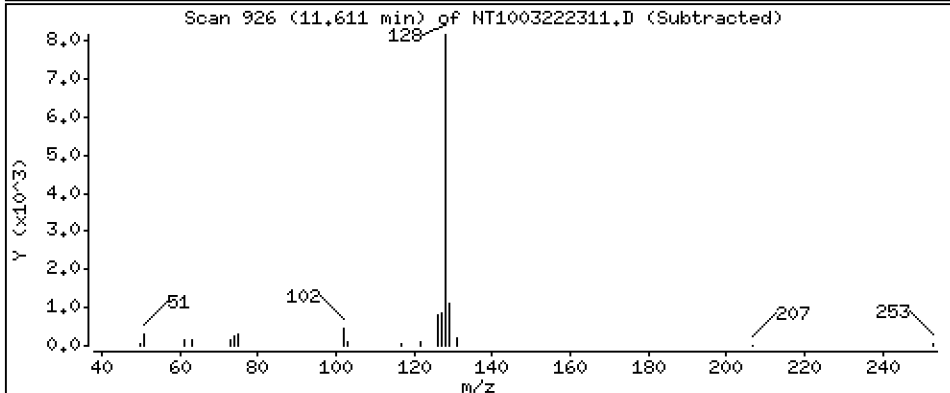
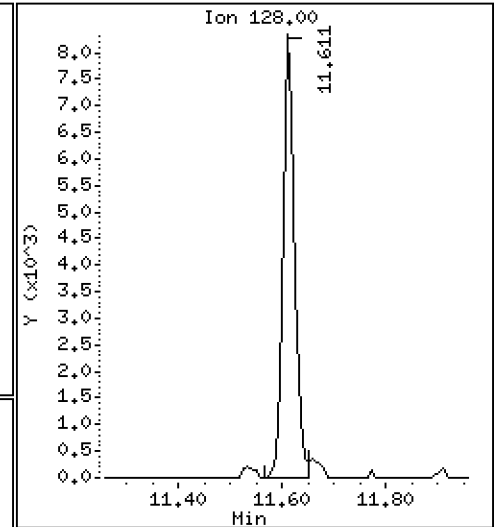
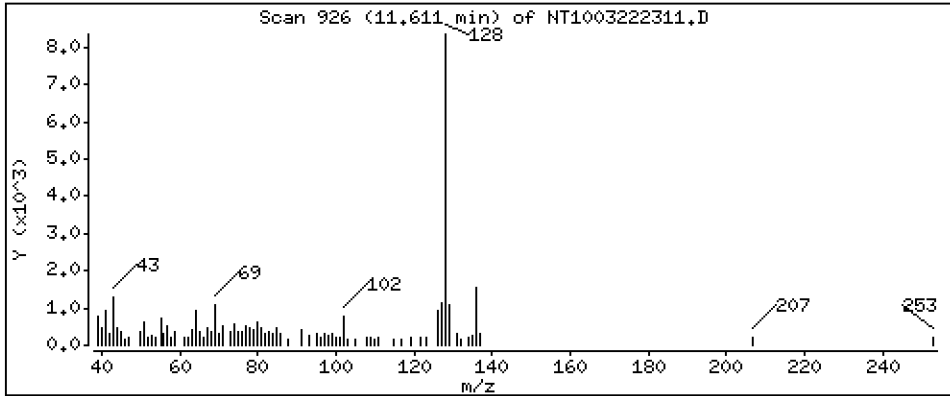
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,07487 ug/mL





Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

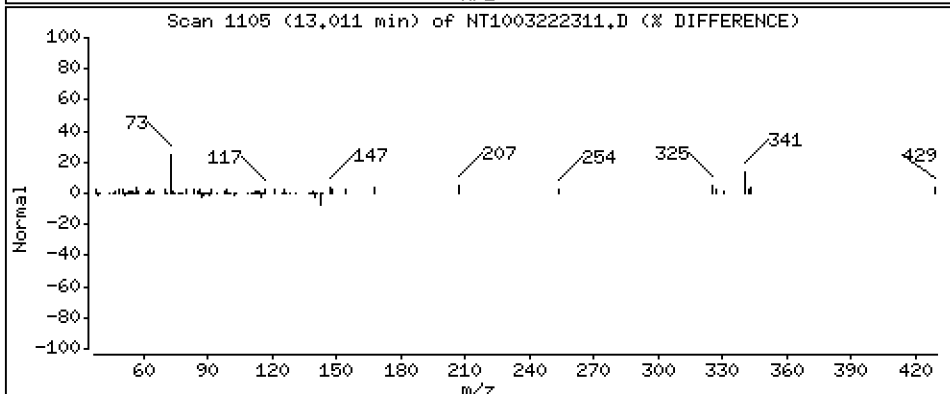
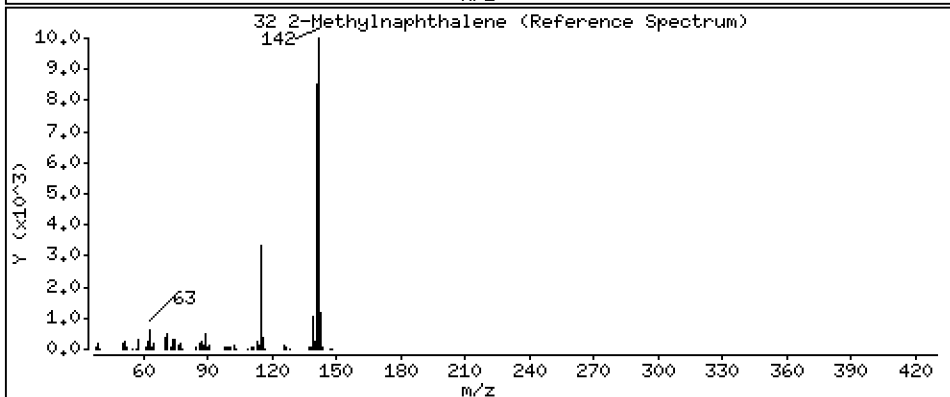
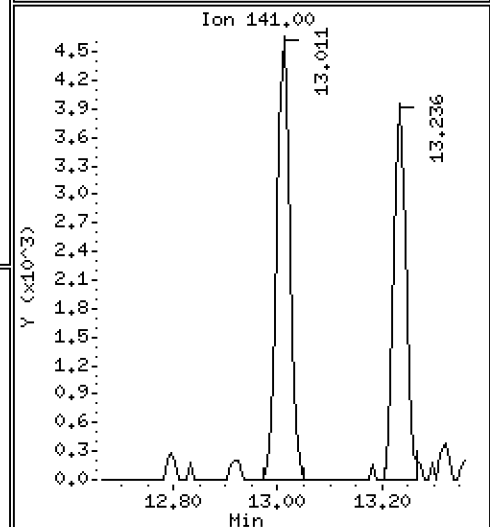
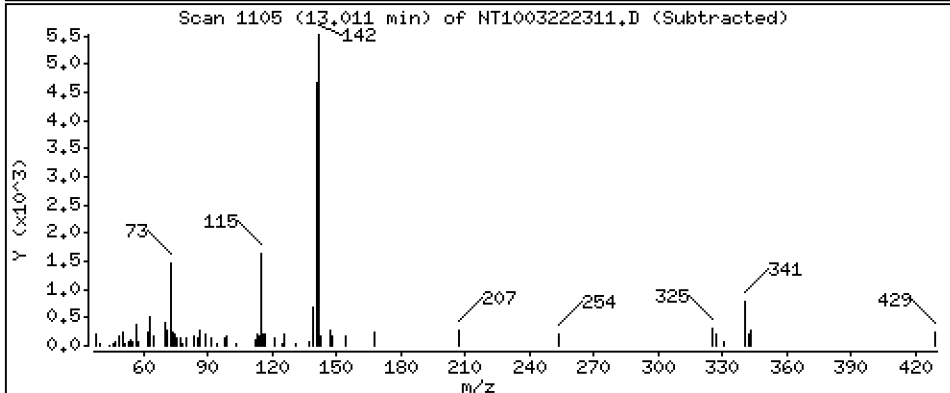
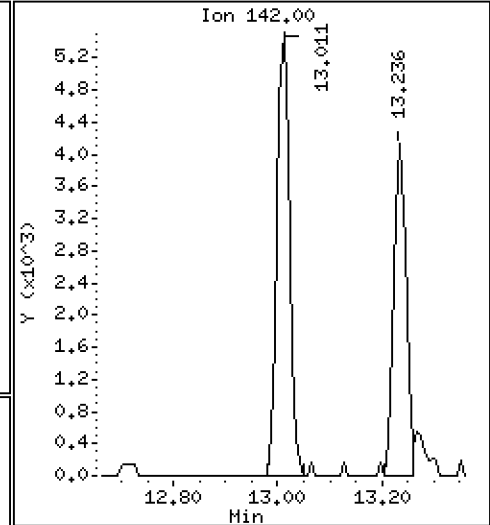
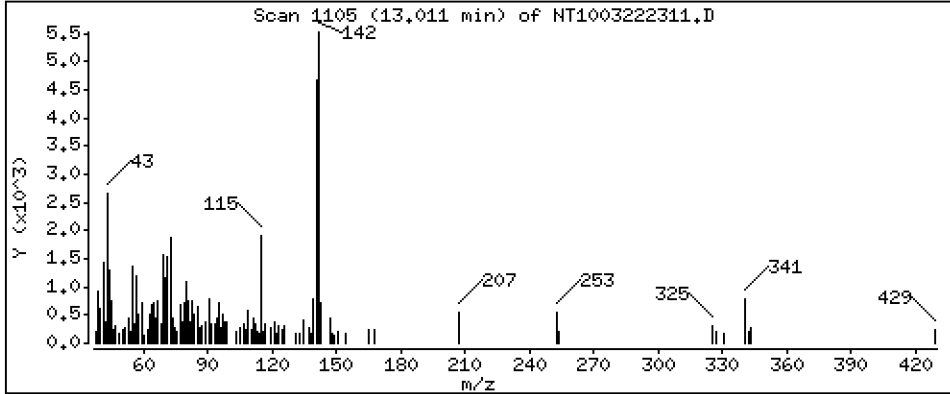
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,06978 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

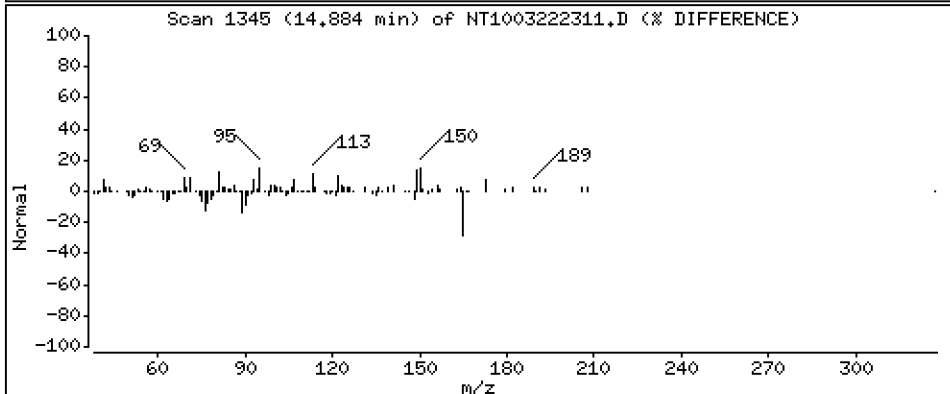
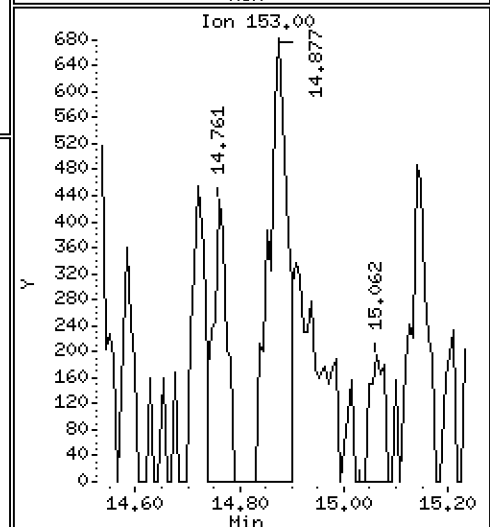
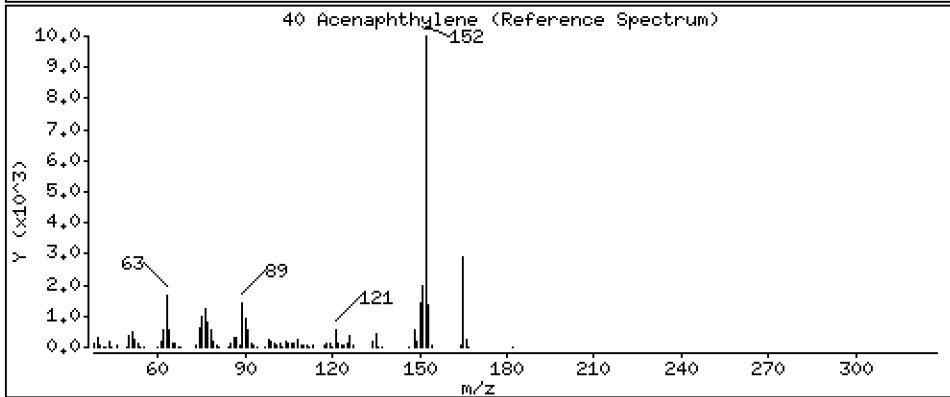
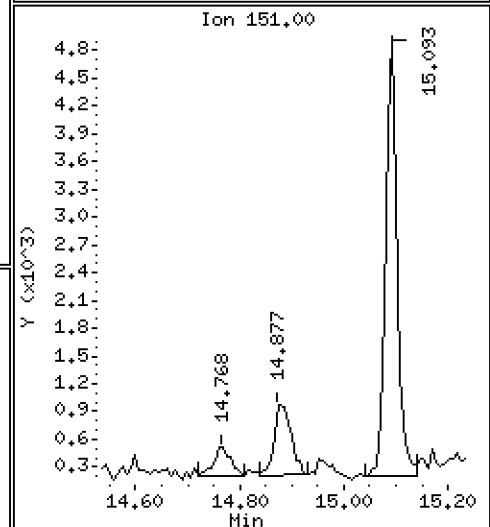
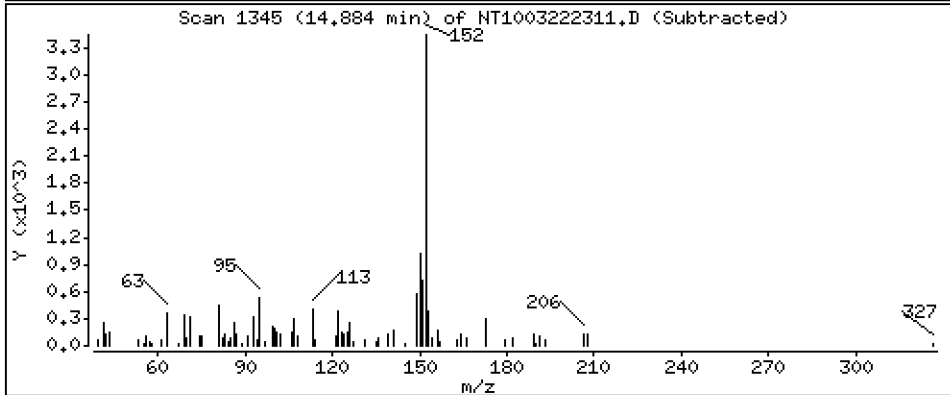
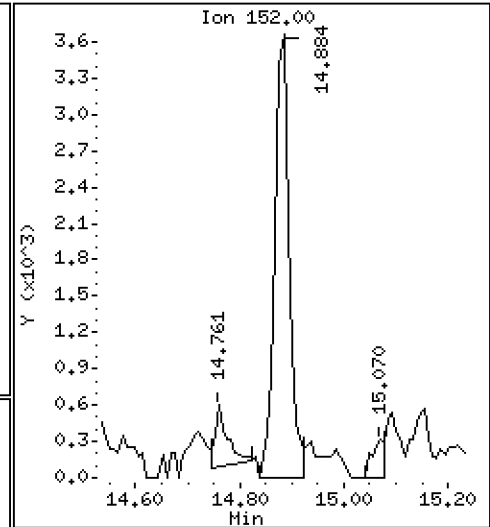
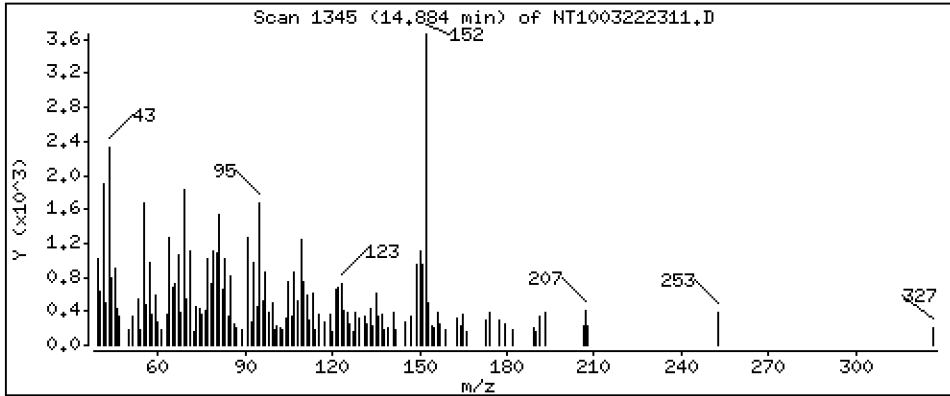
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 0.03835 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

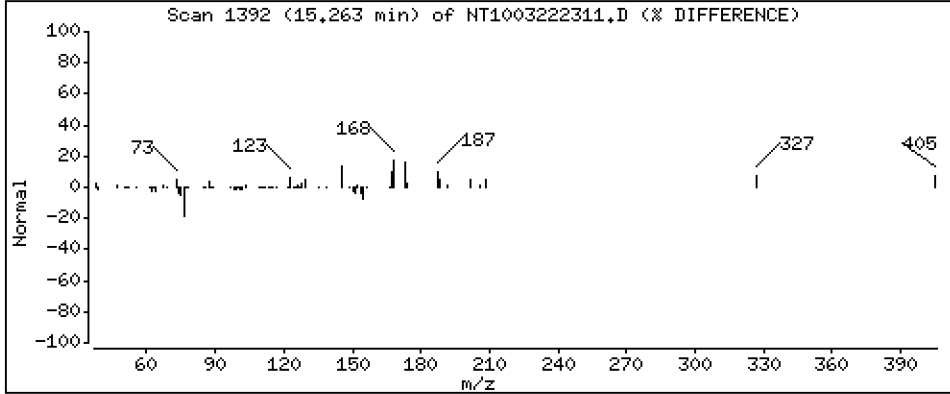
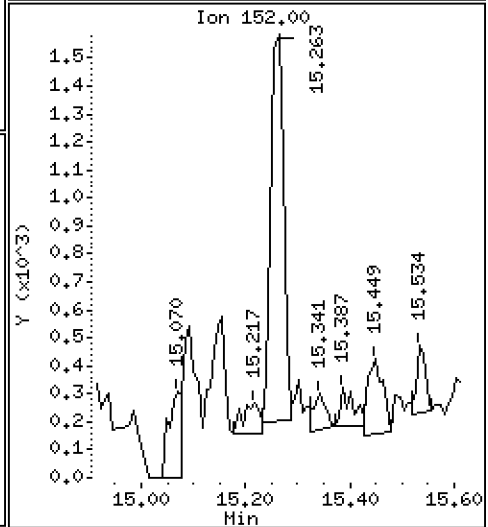
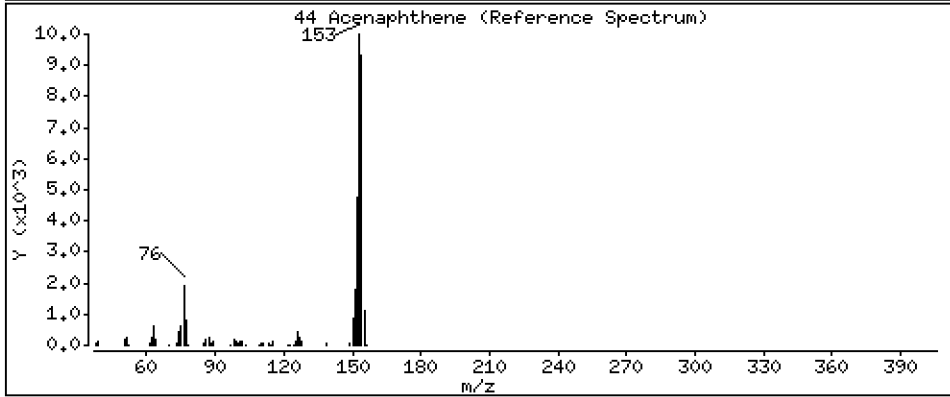
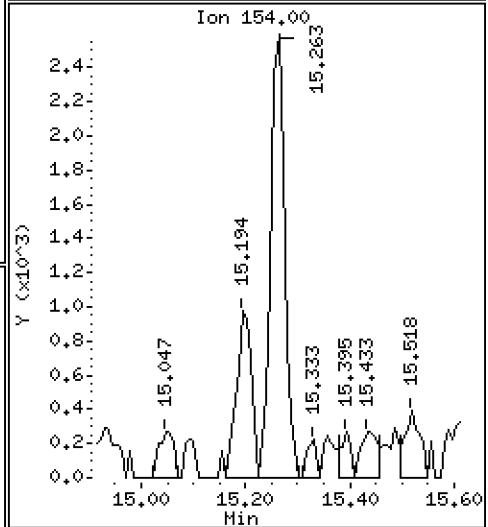
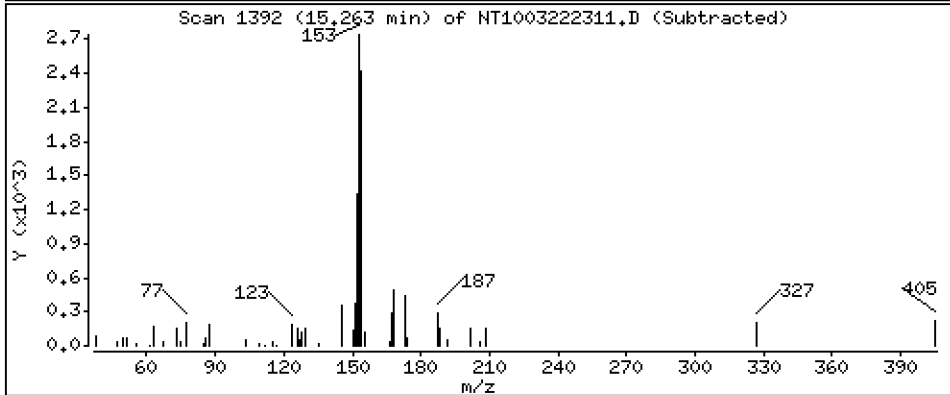
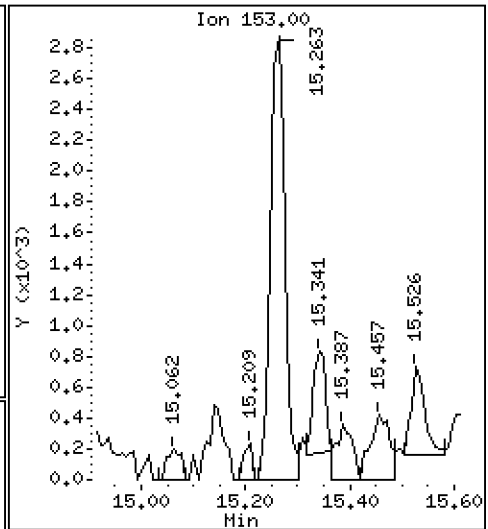
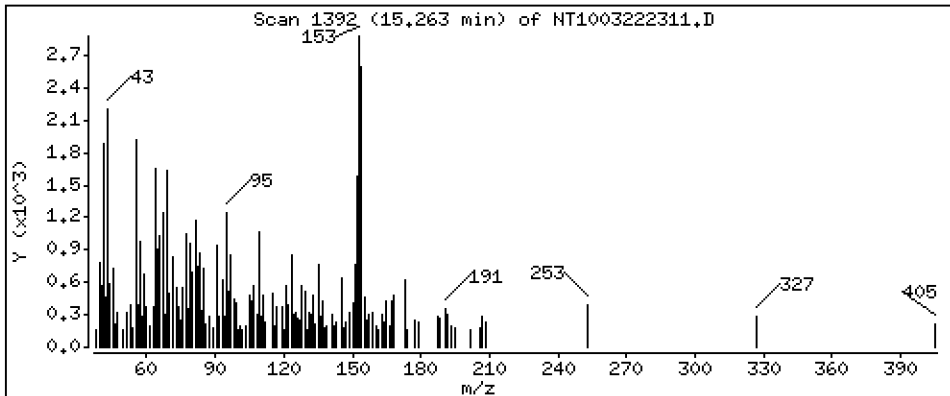
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,04855 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

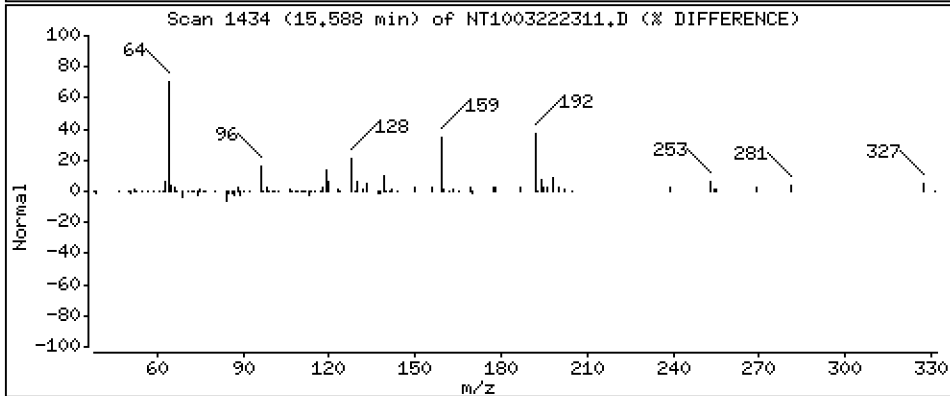
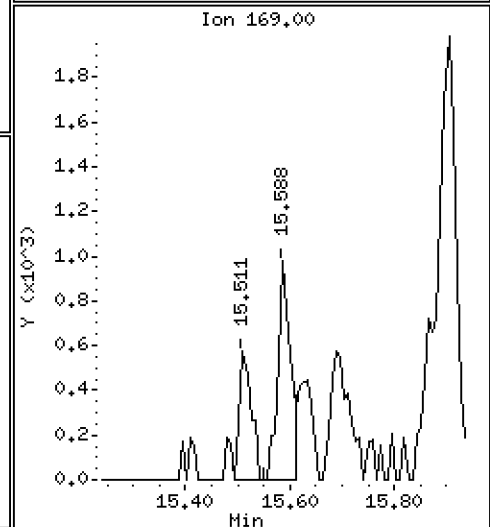
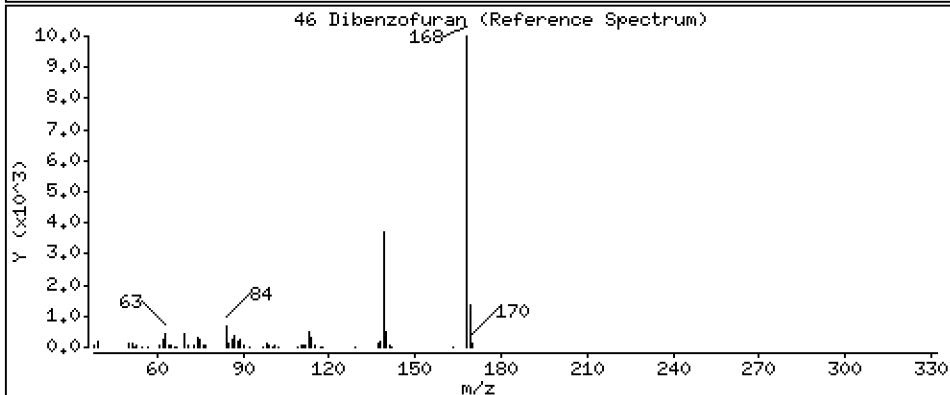
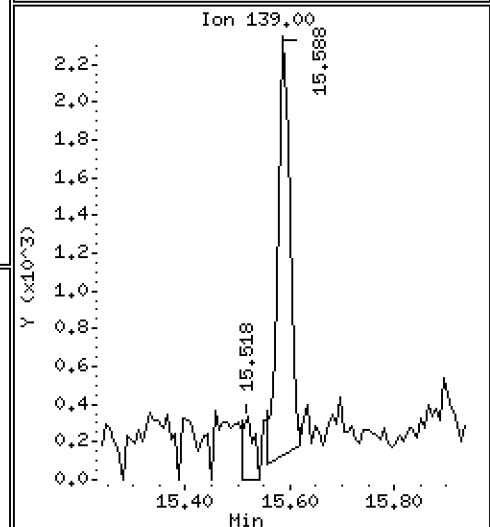
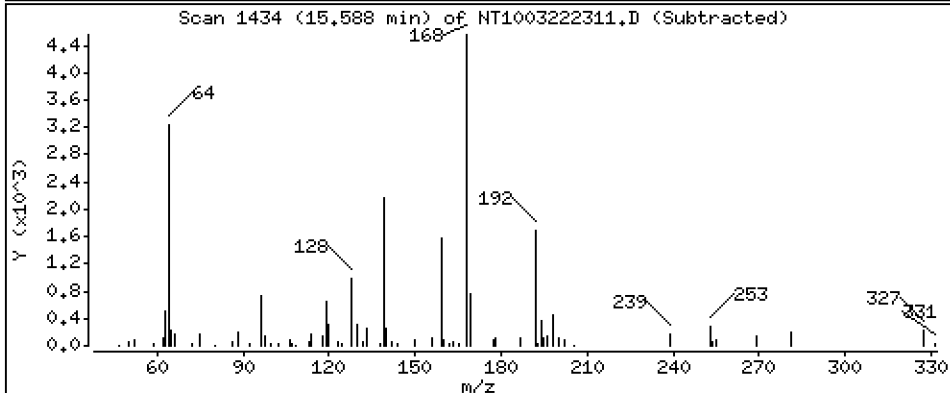
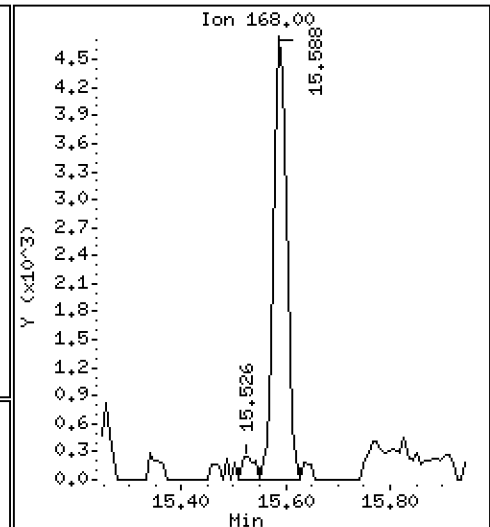
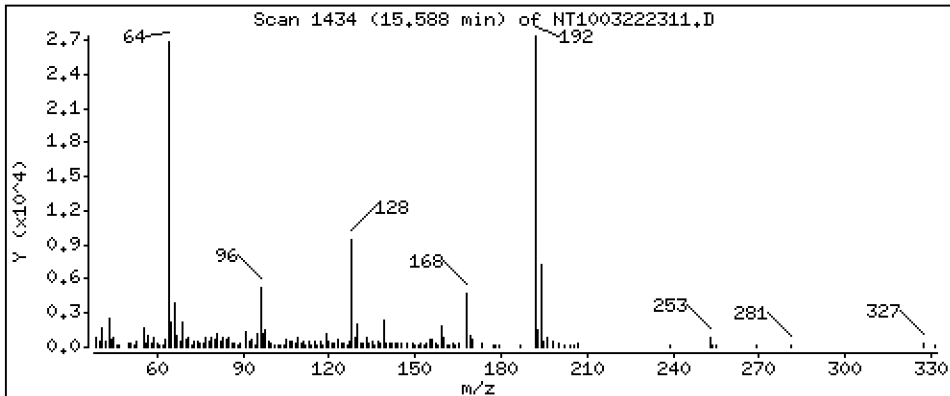
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

46 Dibenzofuran

Concentration: 0.05038 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

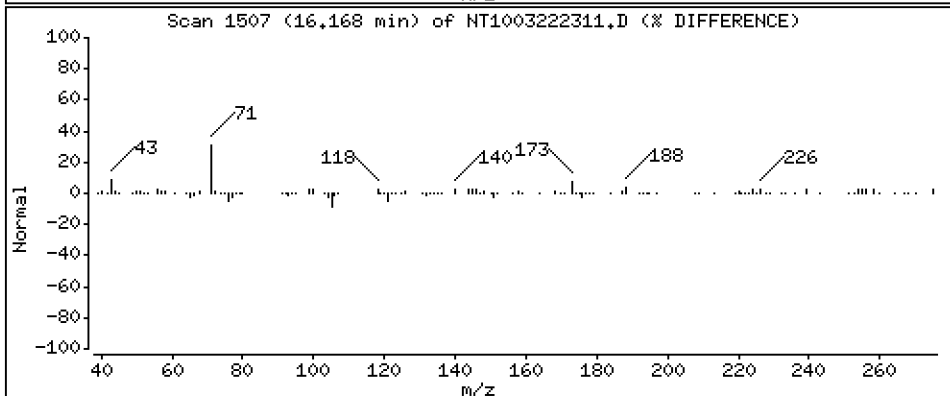
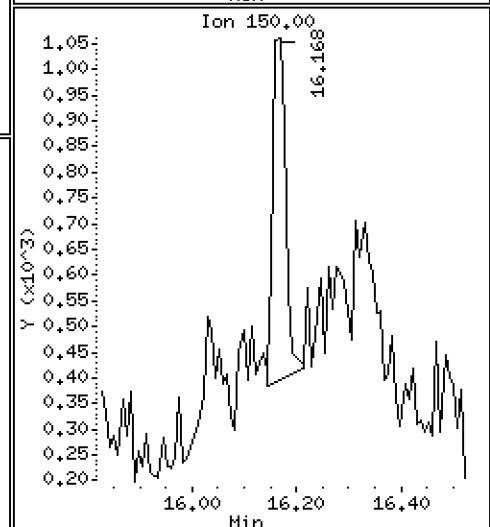
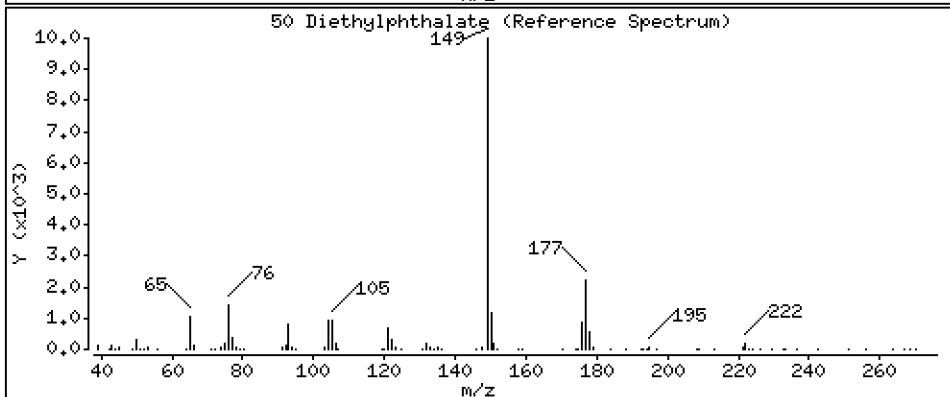
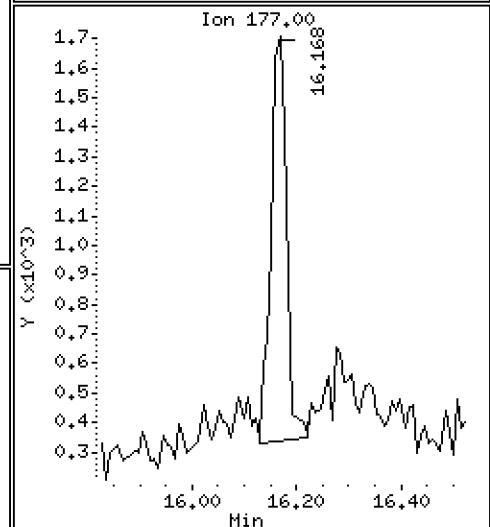
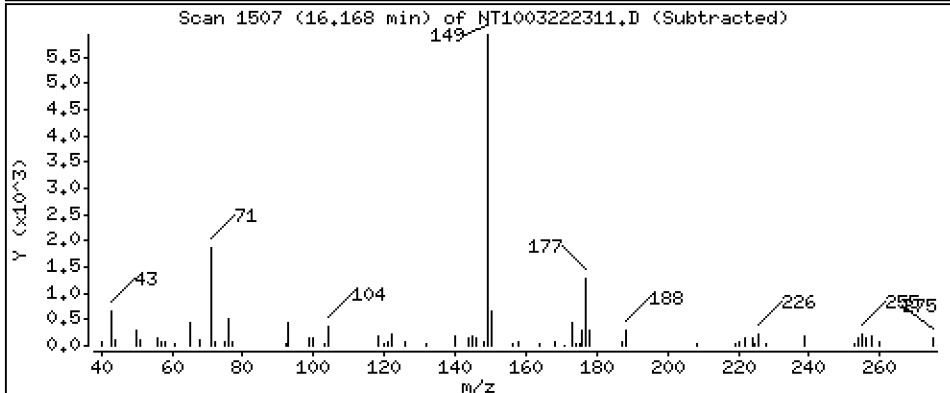
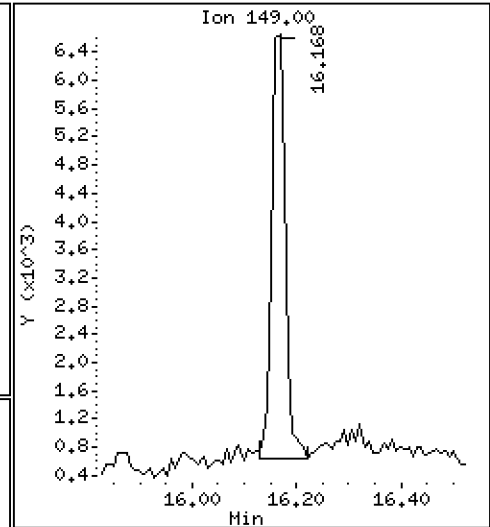
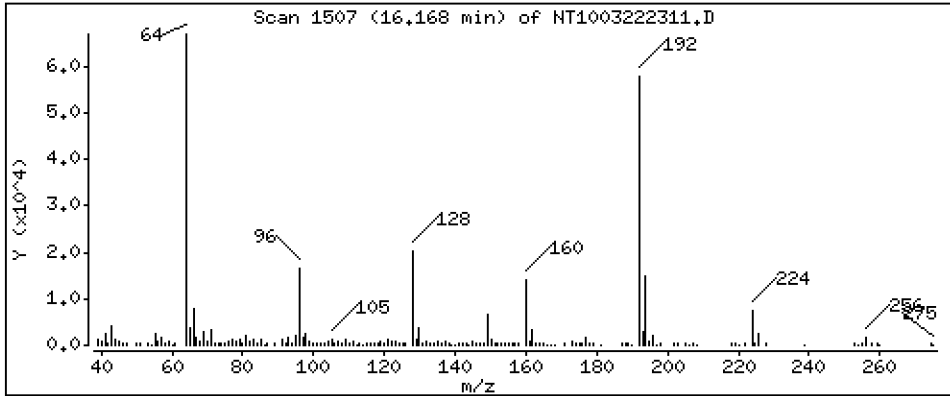
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 0.1069 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

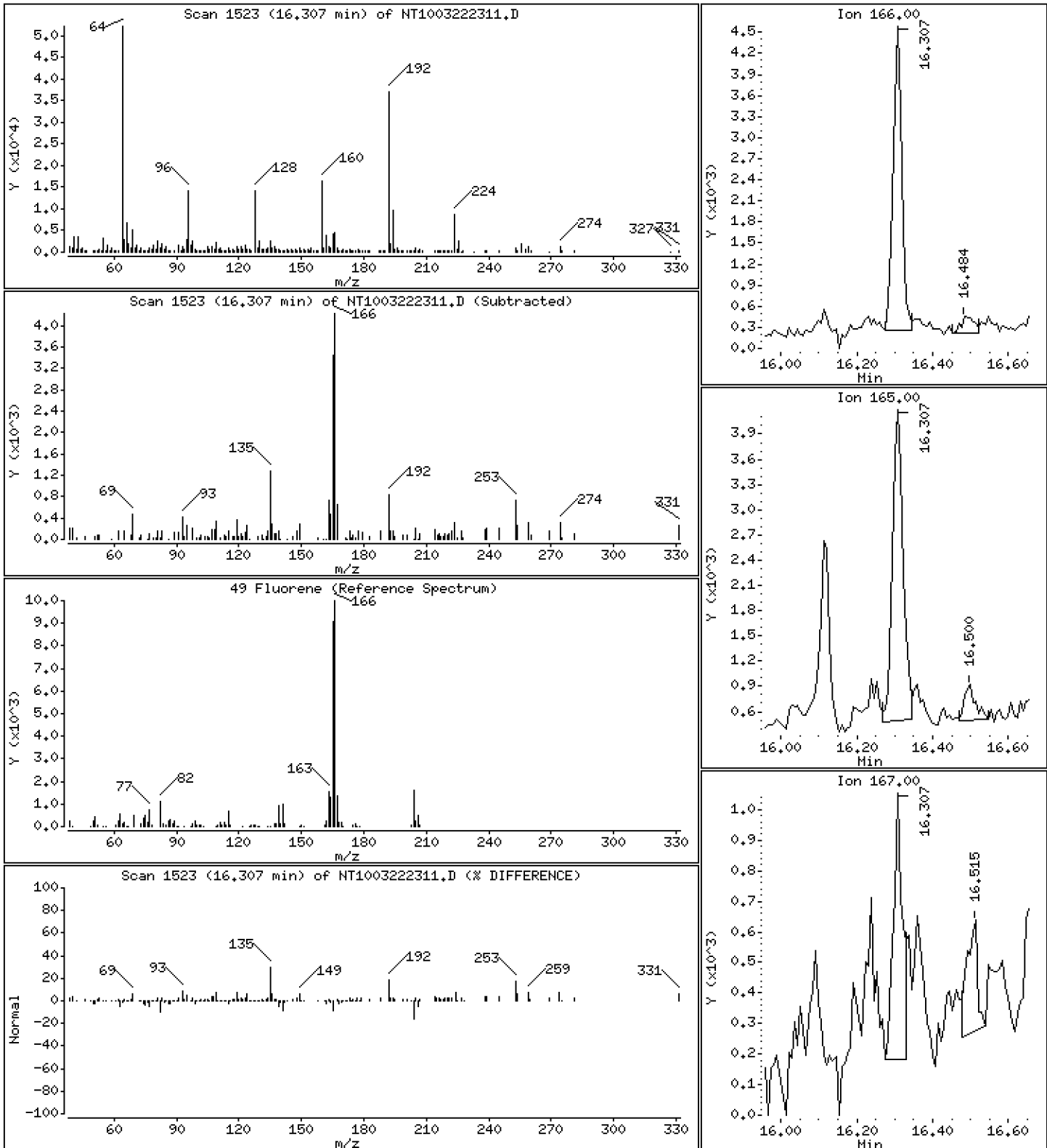
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 0.05341 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

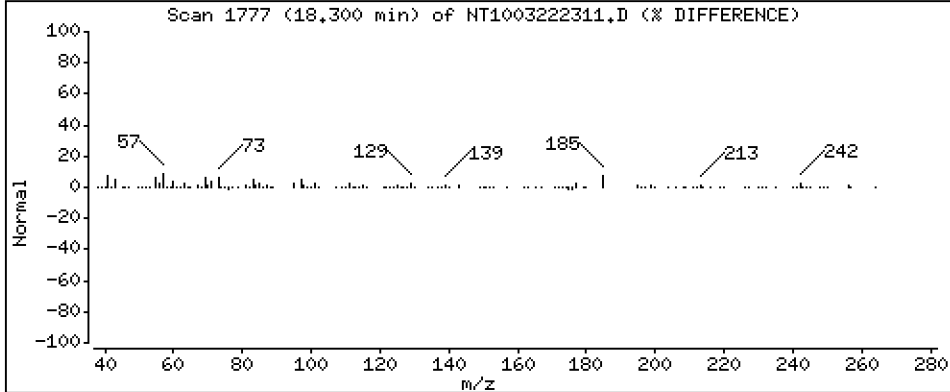
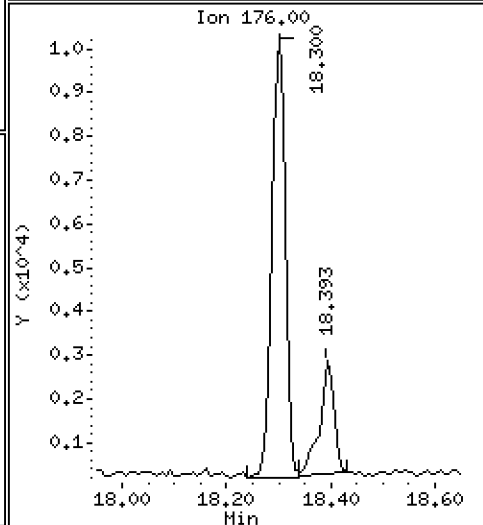
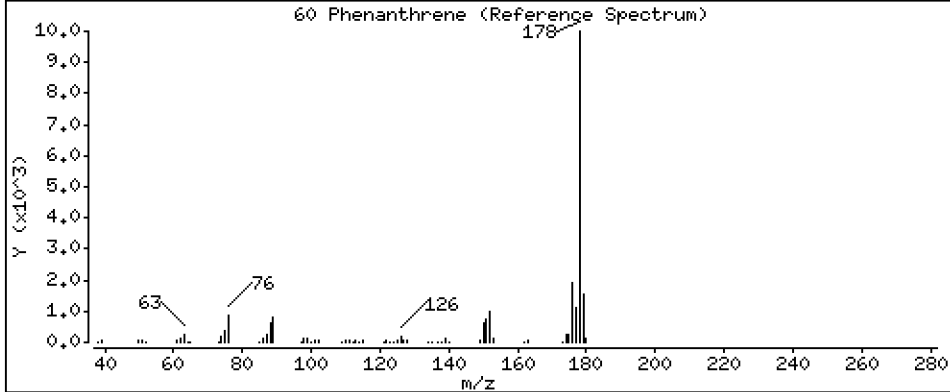
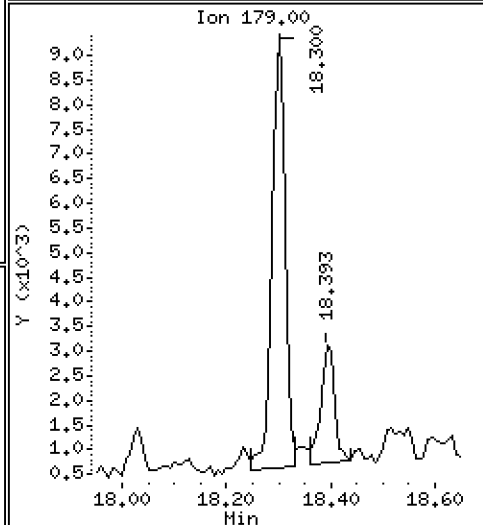
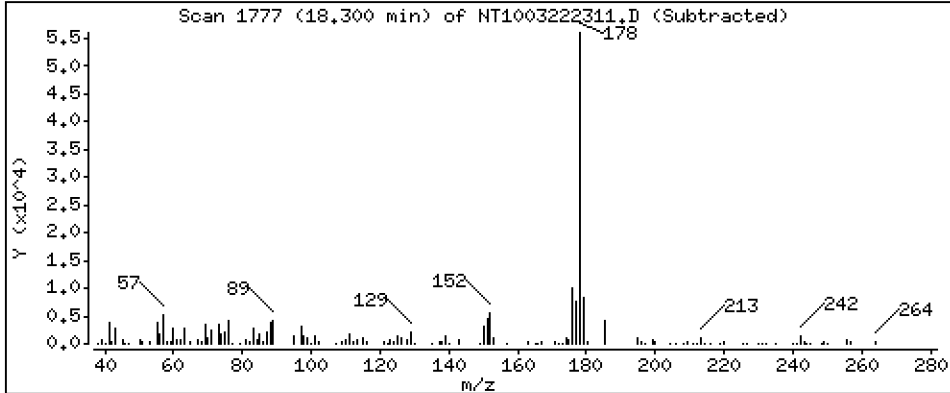
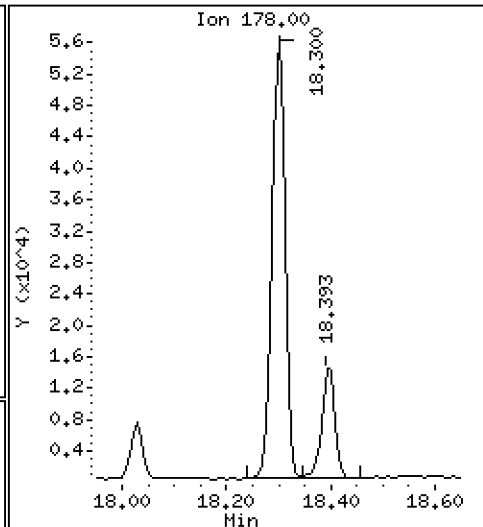
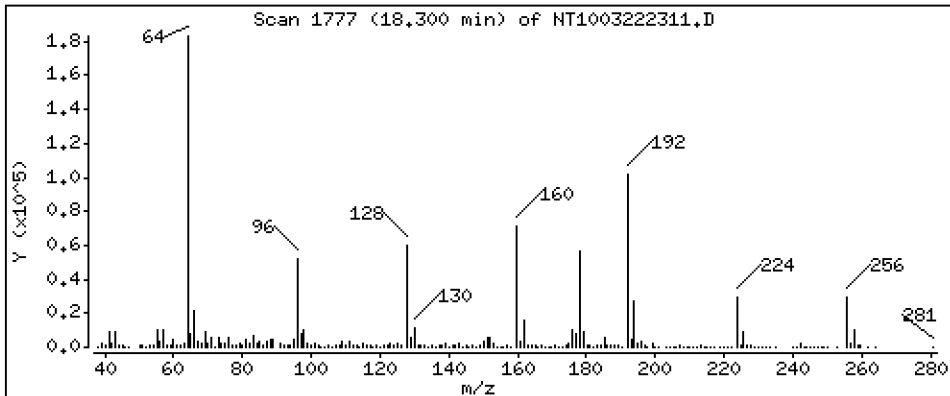
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,5102 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

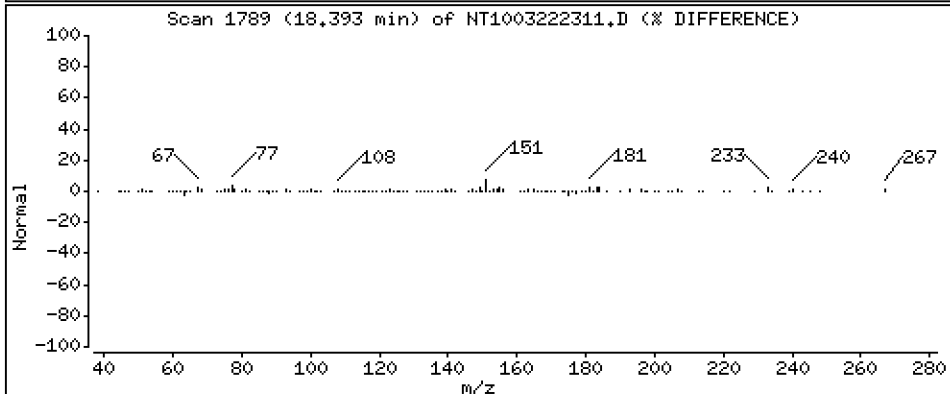
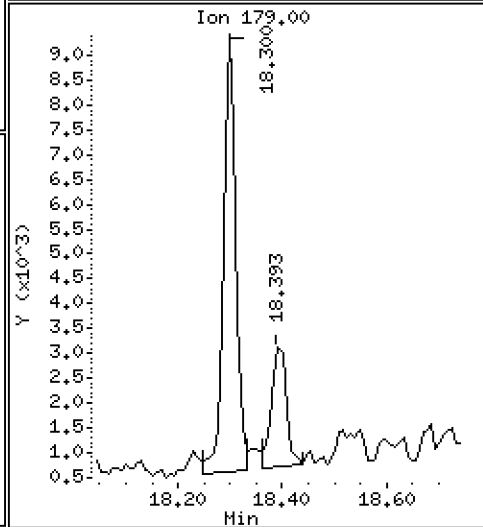
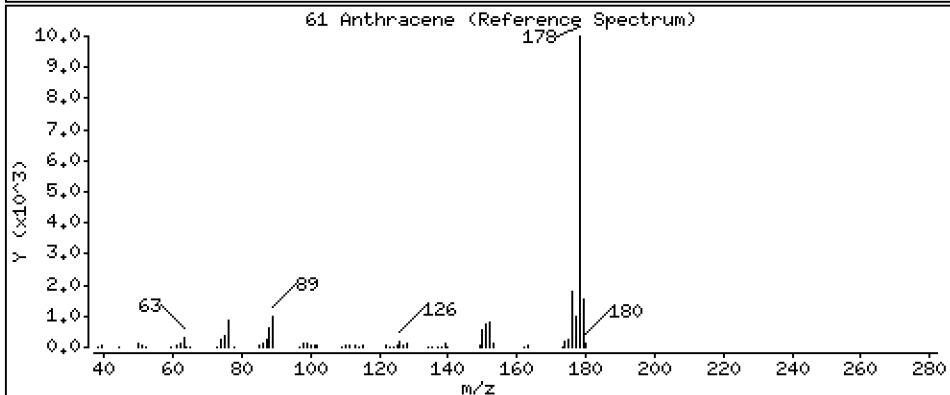
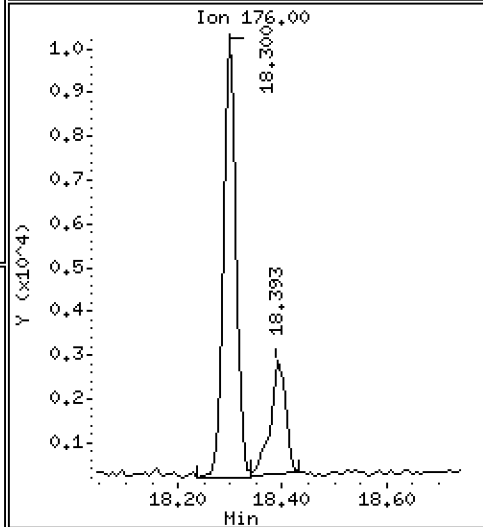
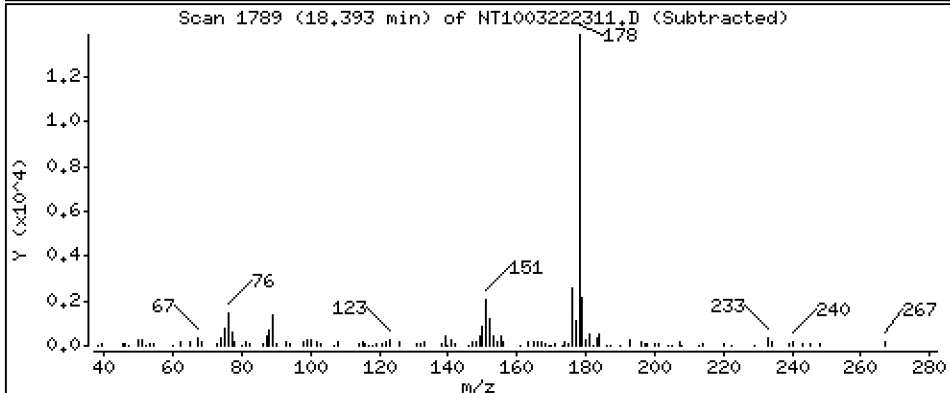
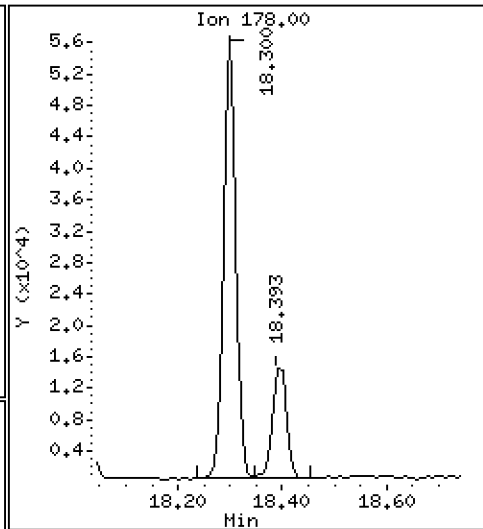
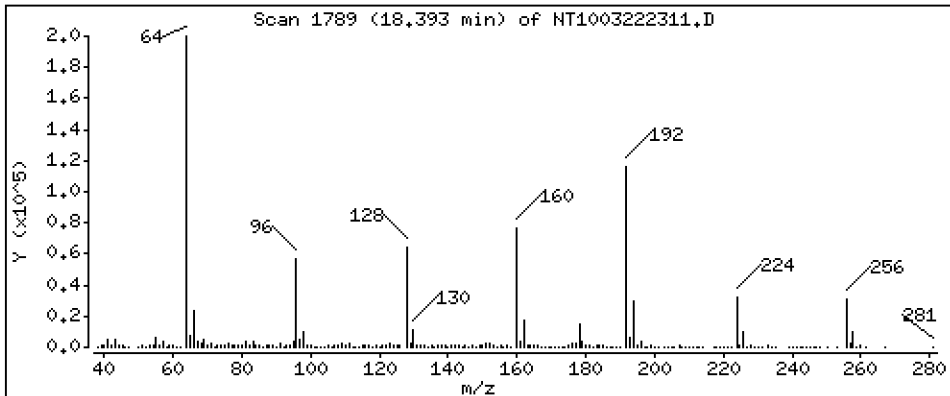
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,1451 ug/mL





Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

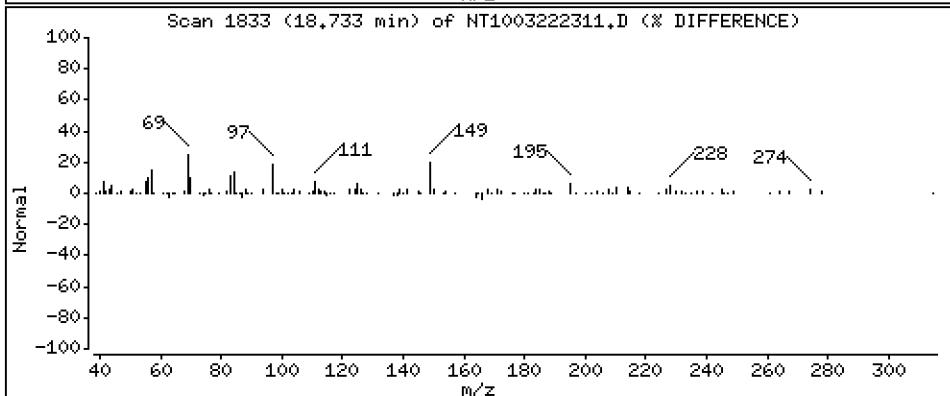
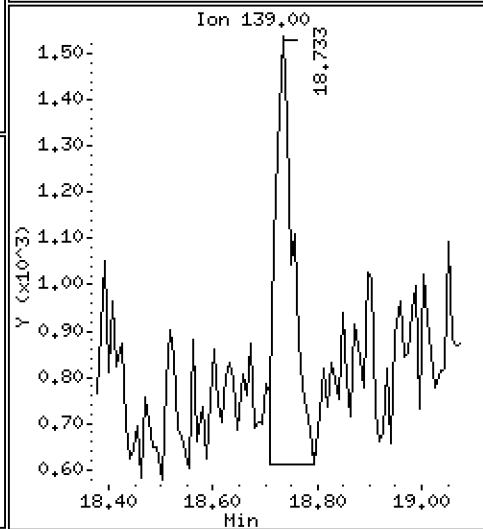
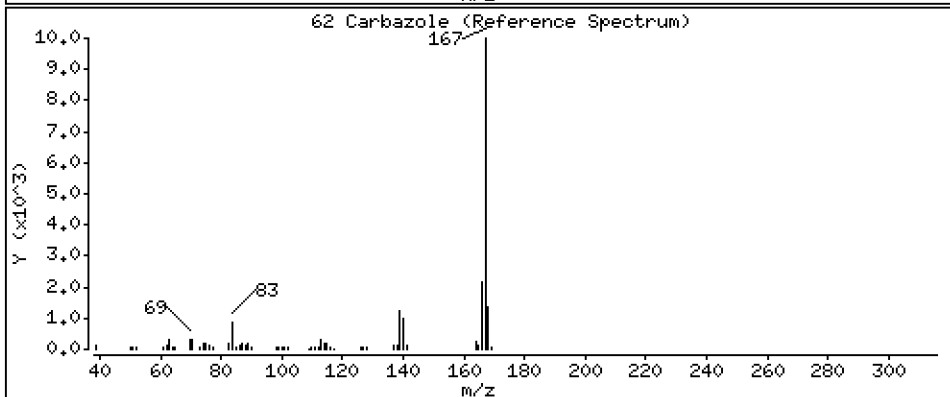
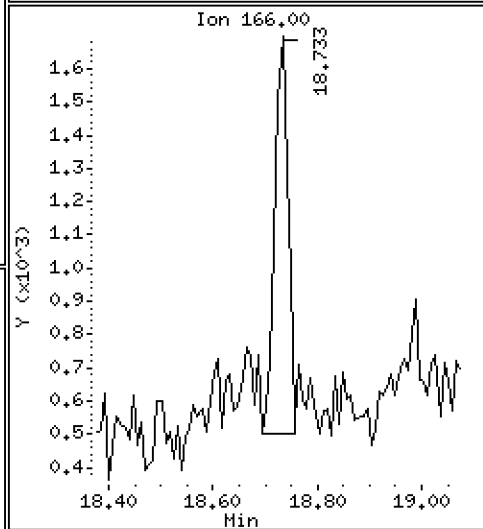
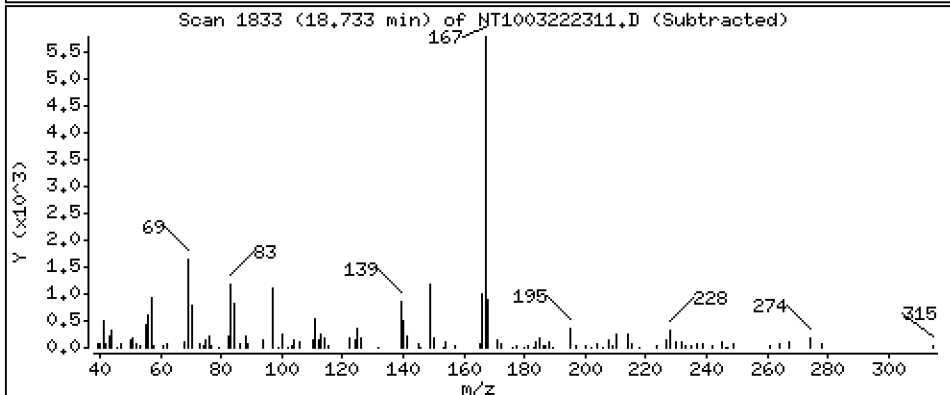
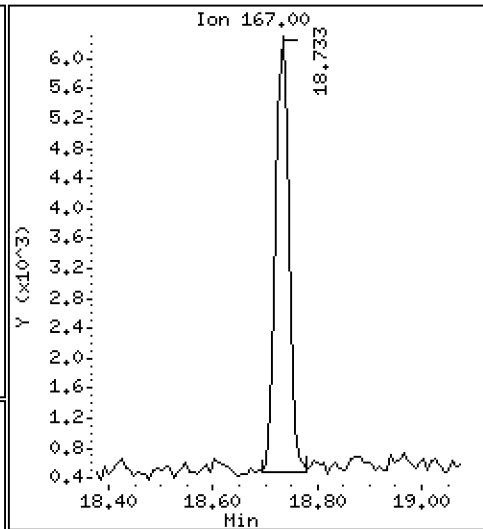
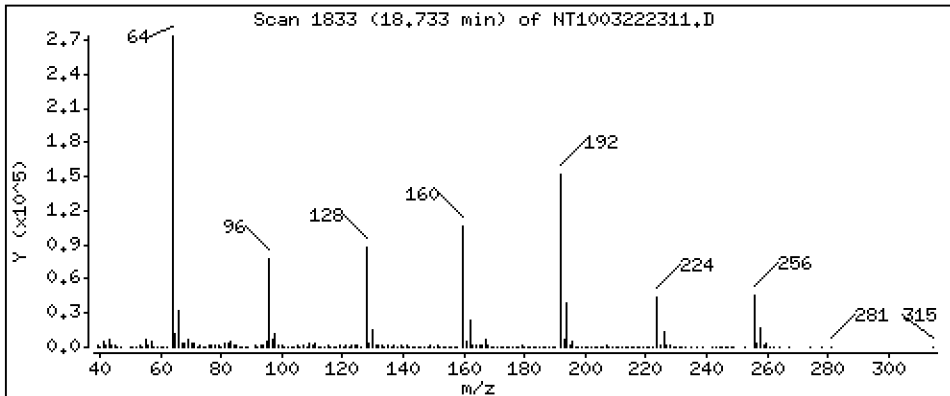
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

62 Carbazole

Concentration: 0.06374 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

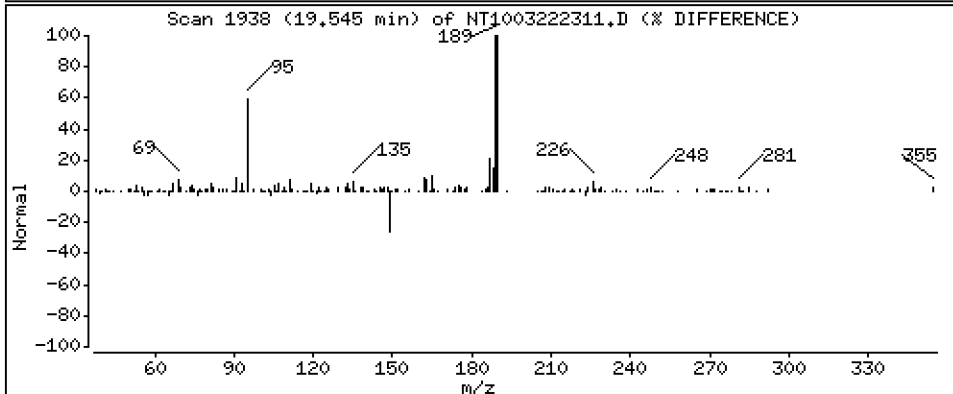
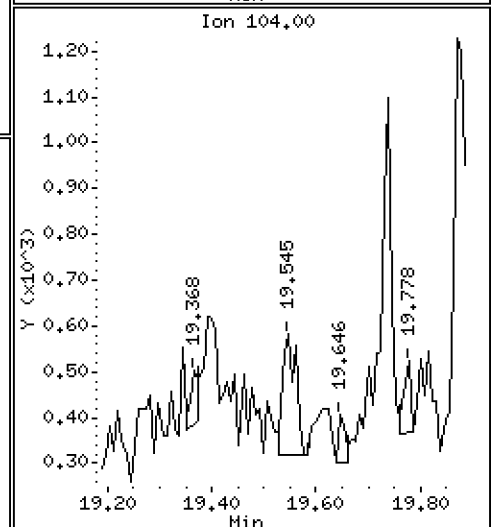
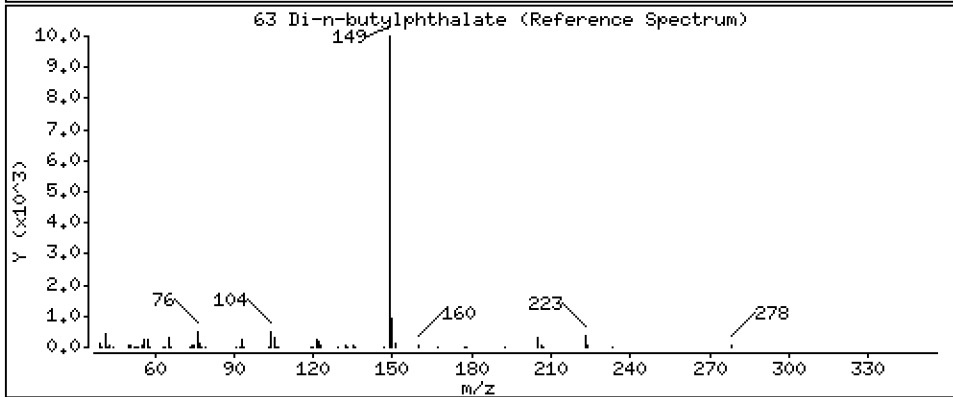
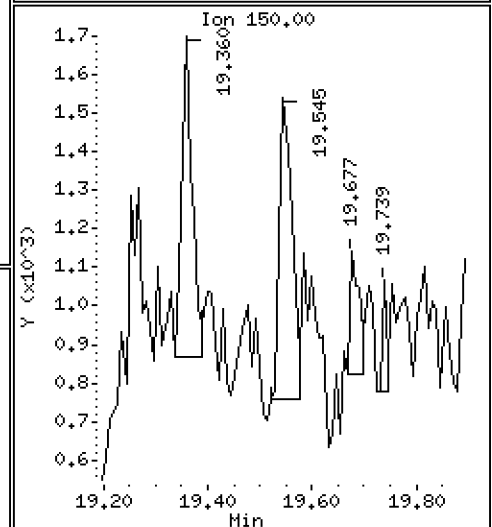
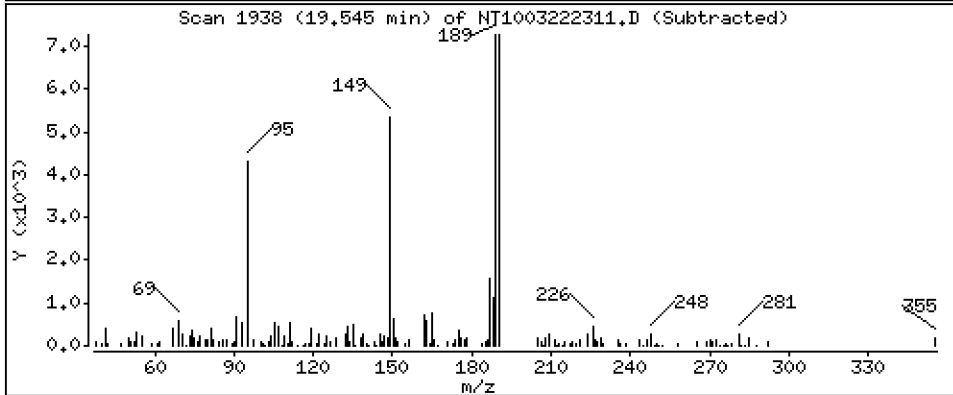
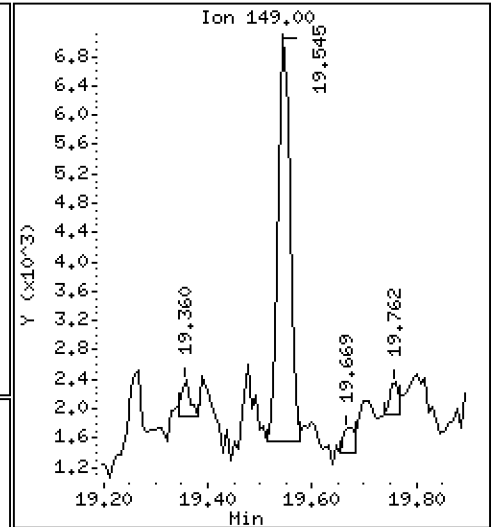
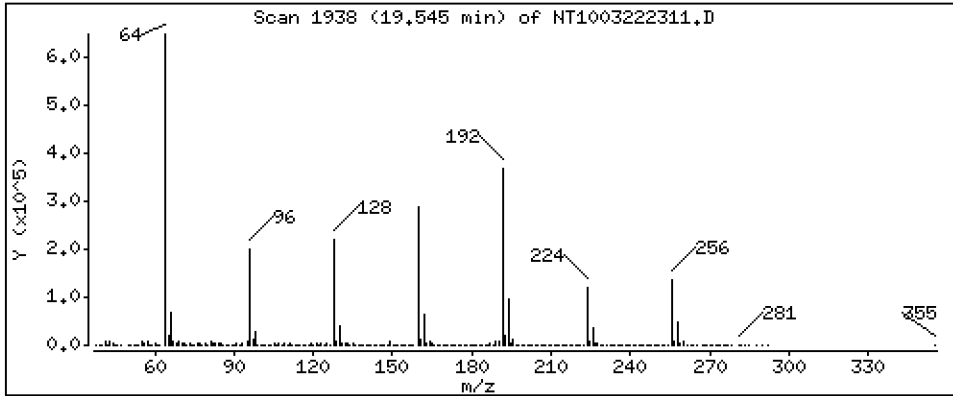
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,03963 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

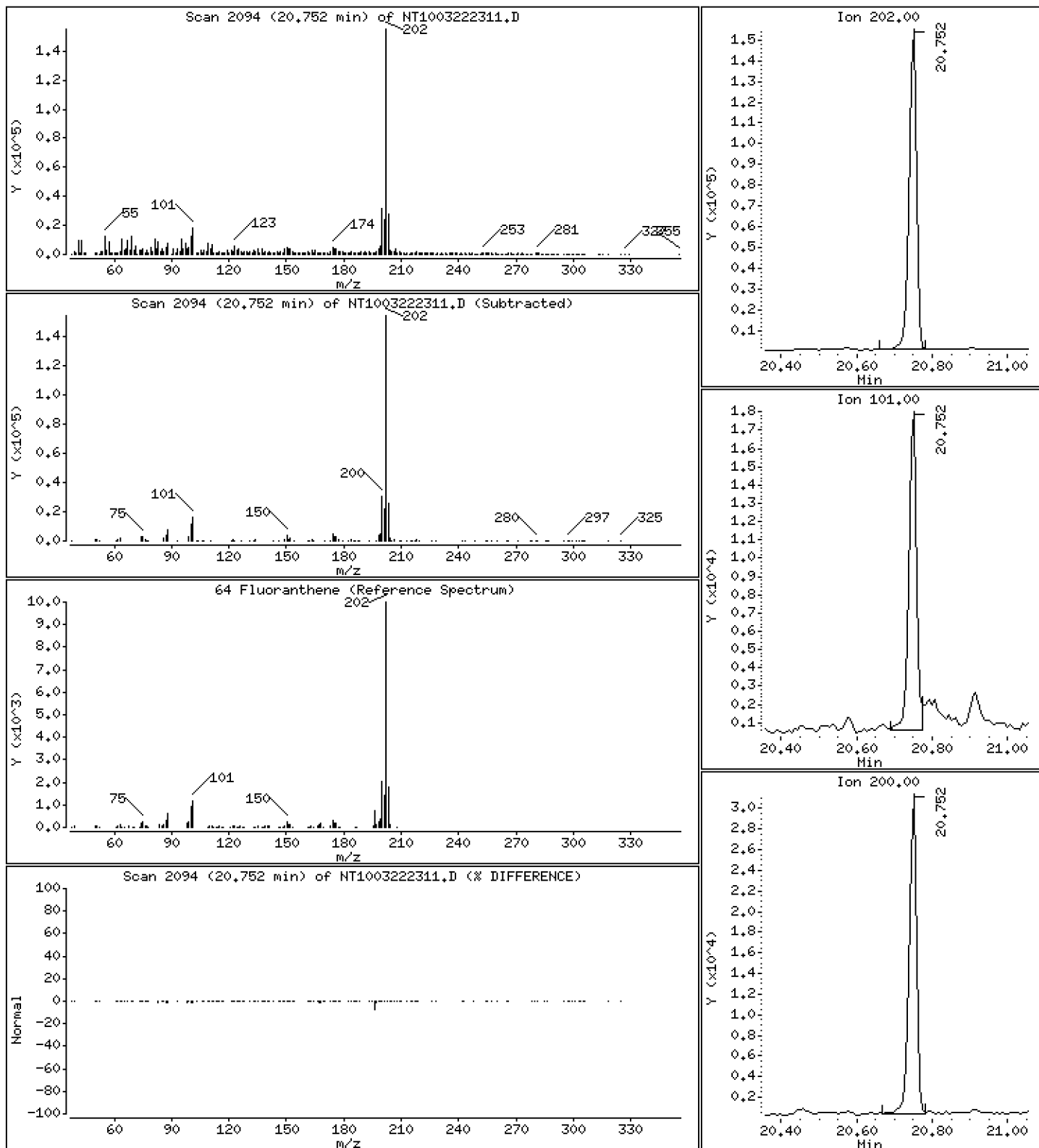
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,9423 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

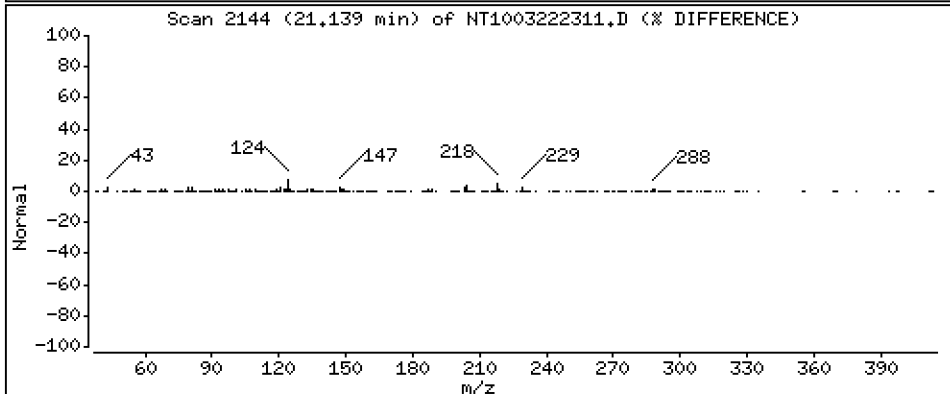
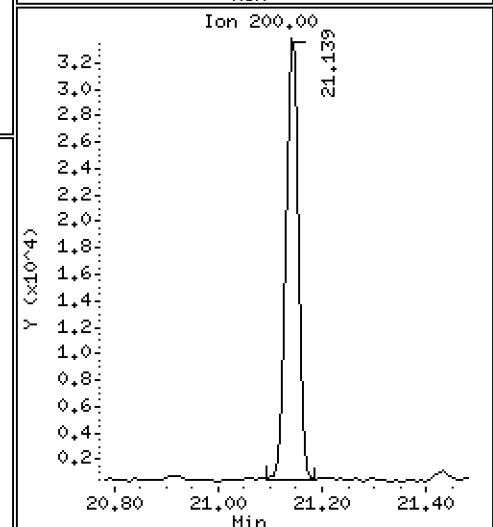
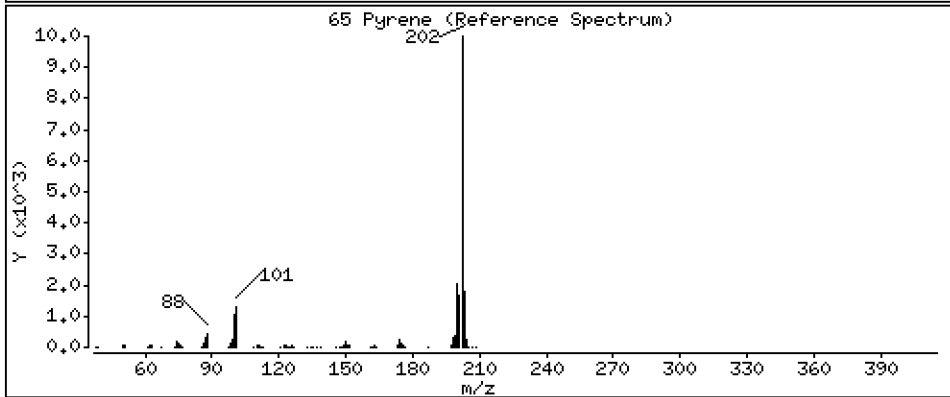
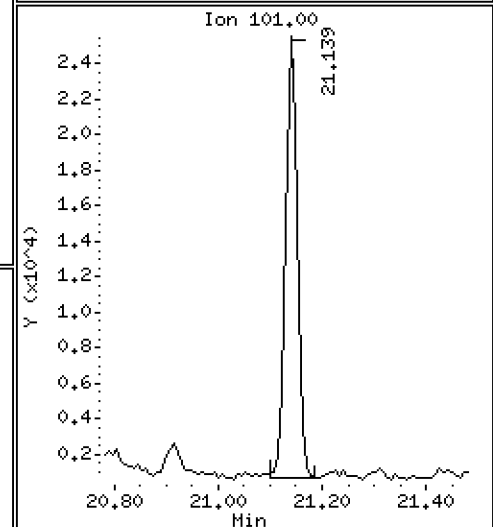
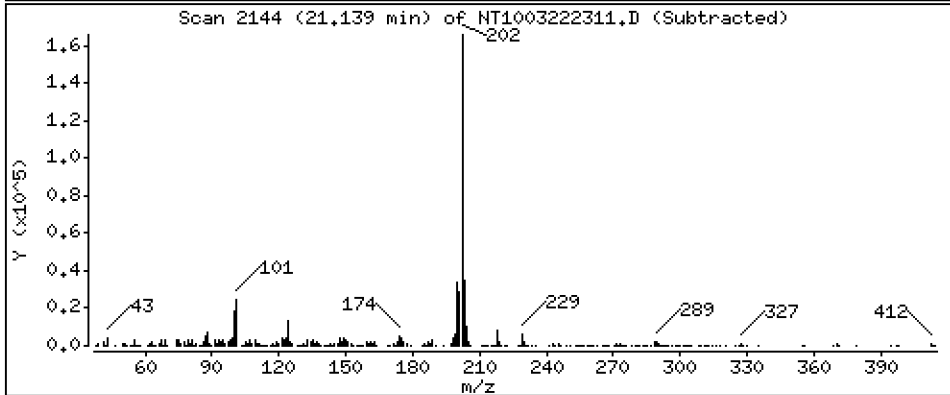
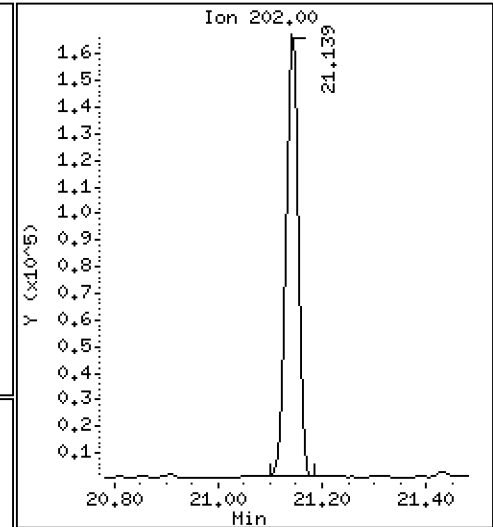
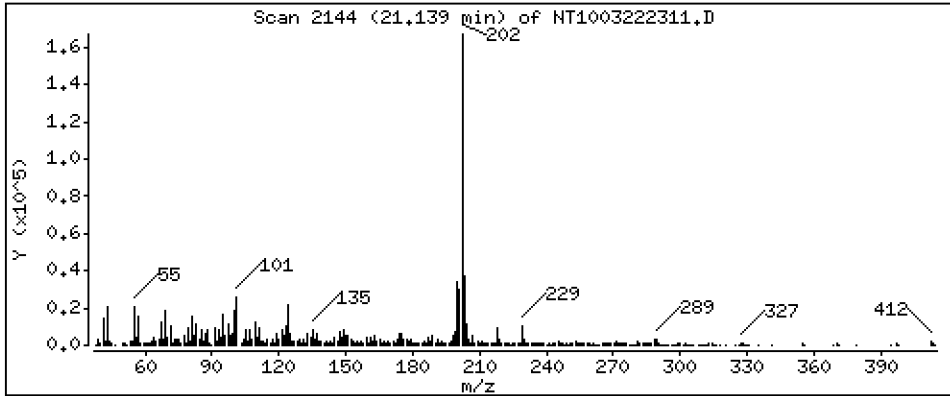
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 1,062 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

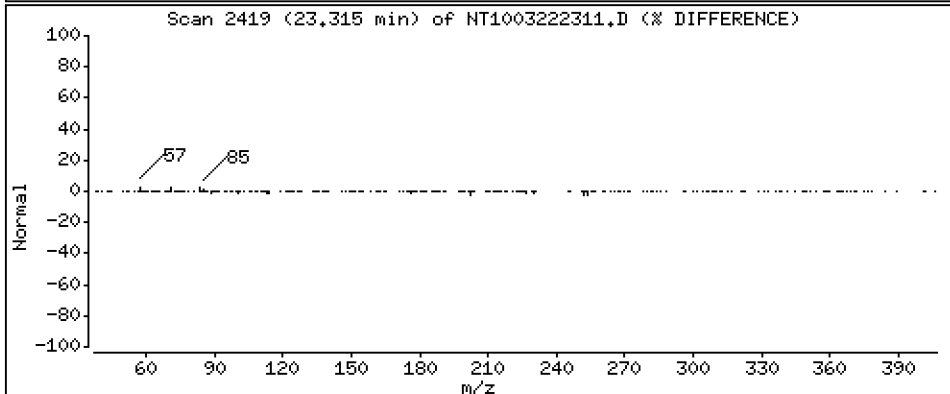
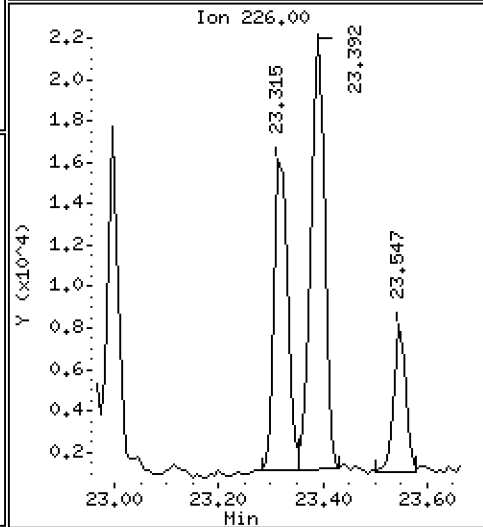
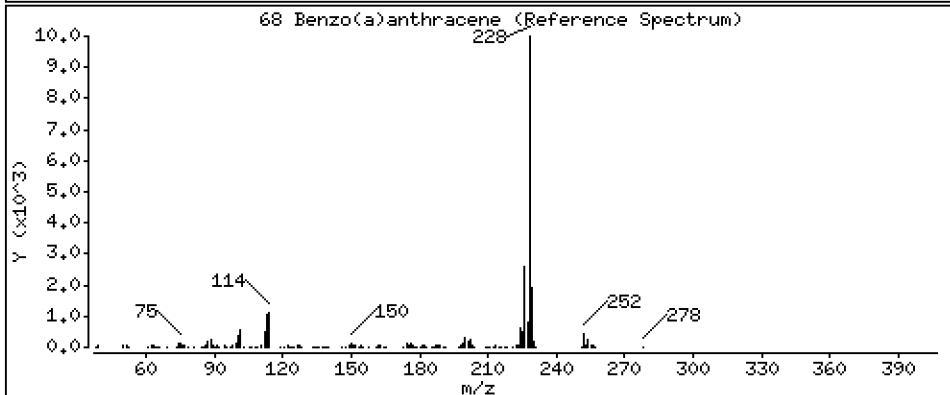
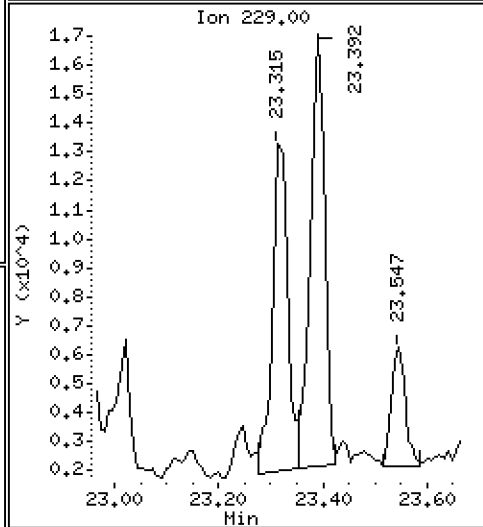
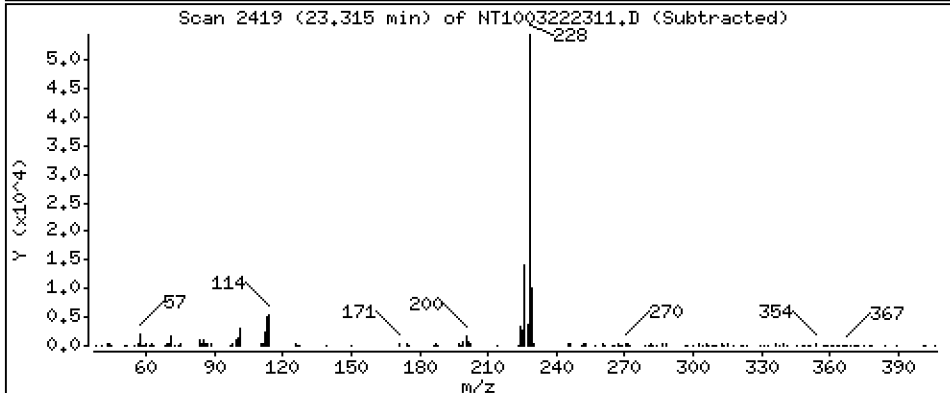
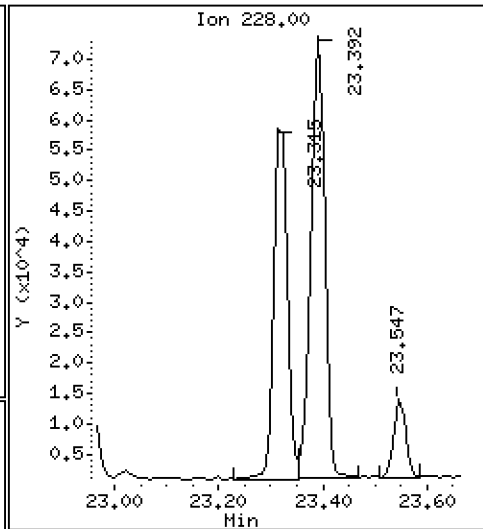
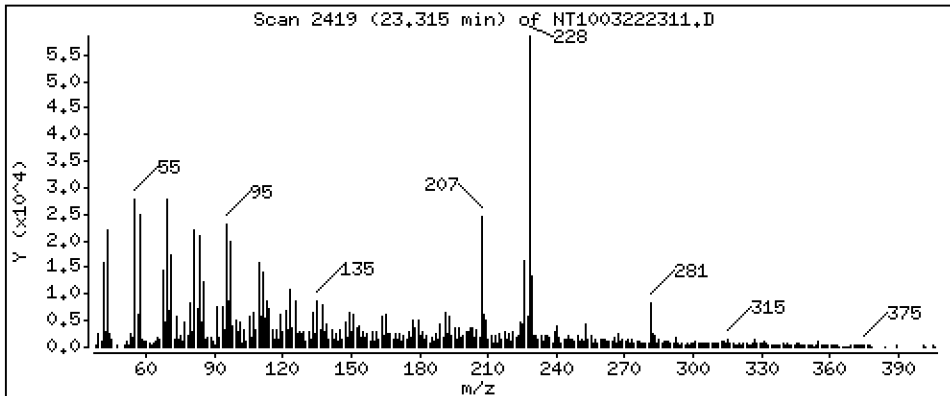
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,4868 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

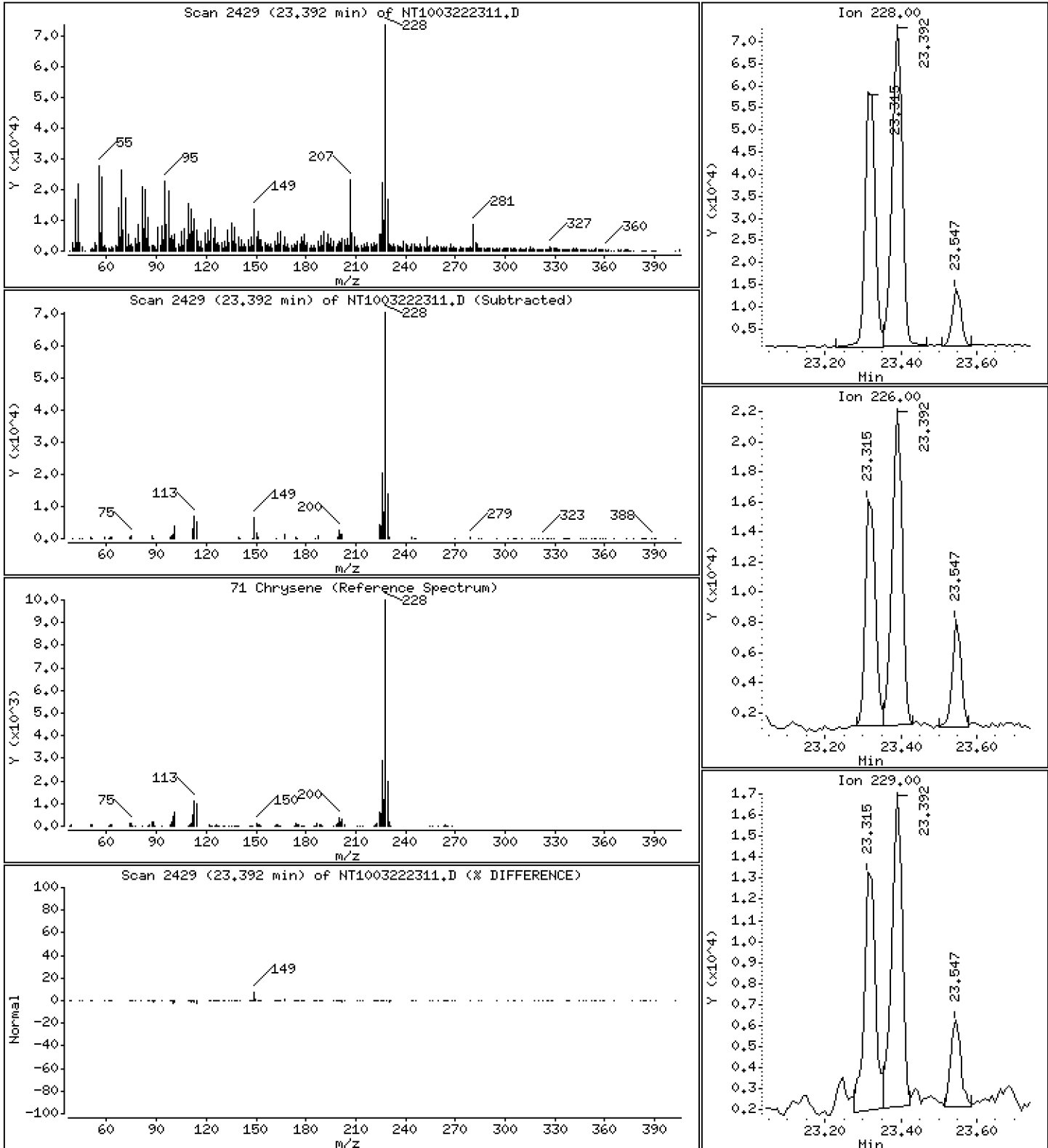
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,6347 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

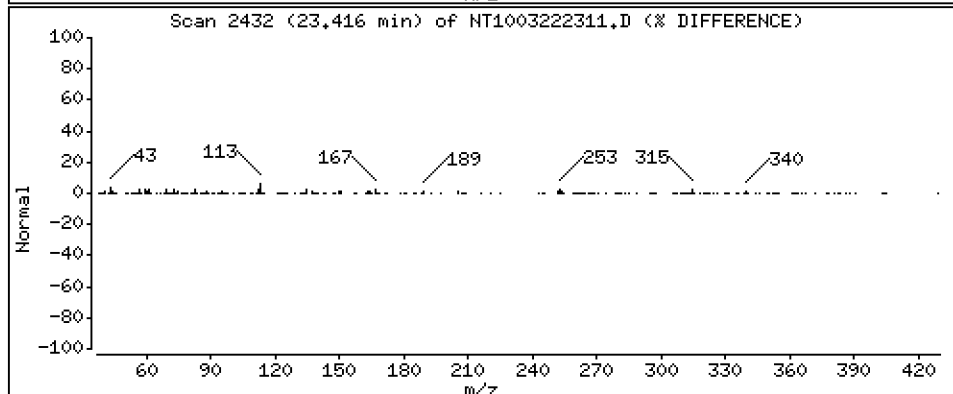
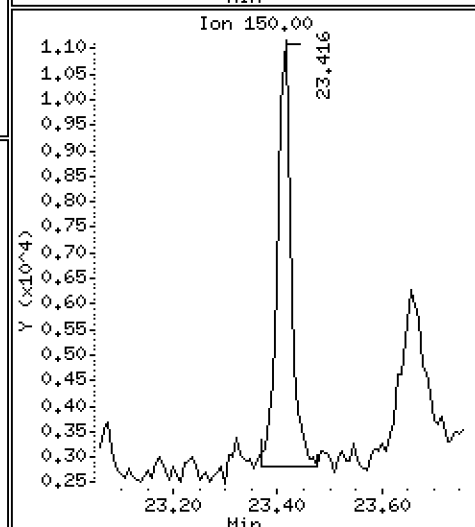
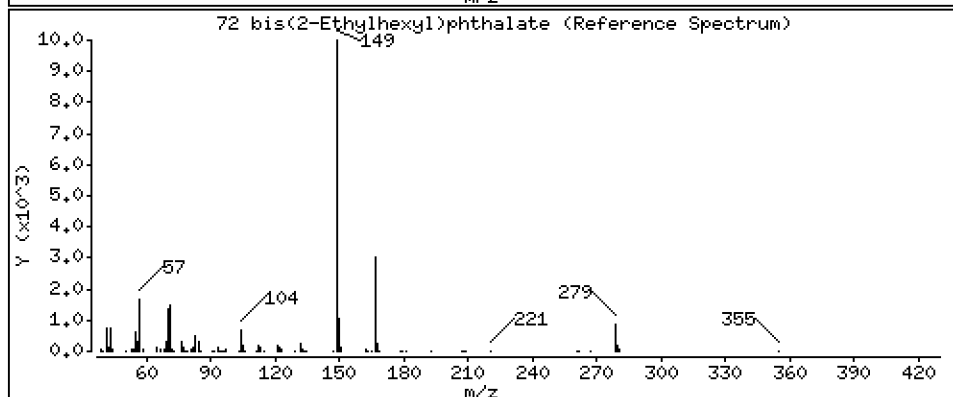
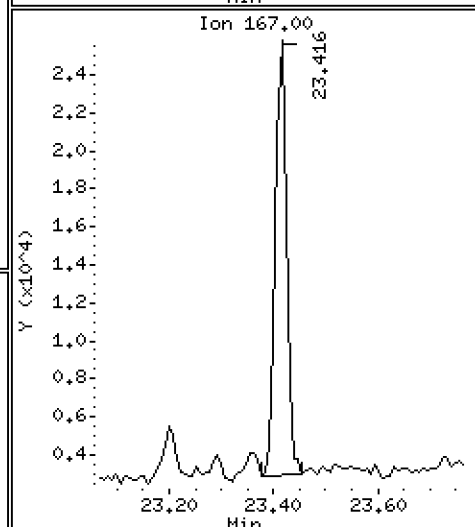
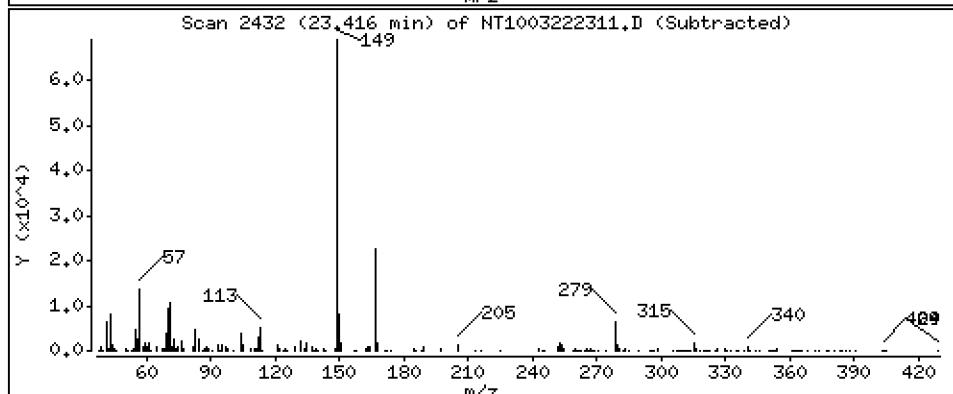
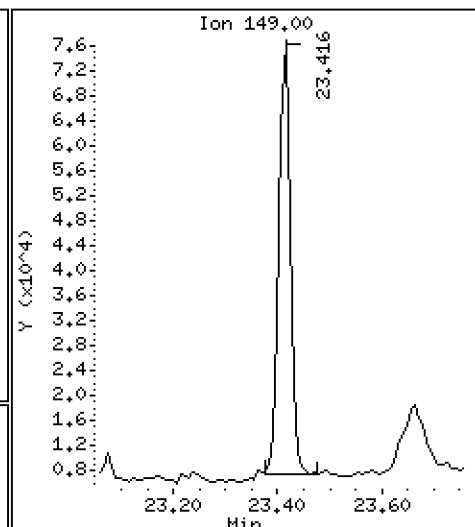
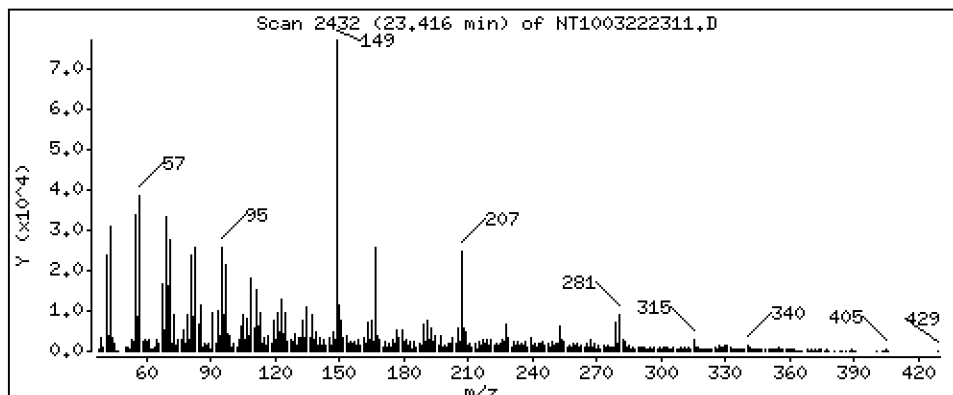
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,6656 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

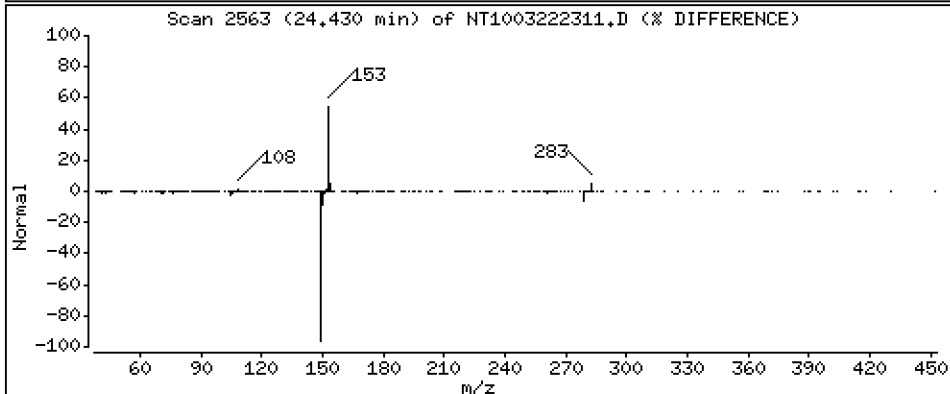
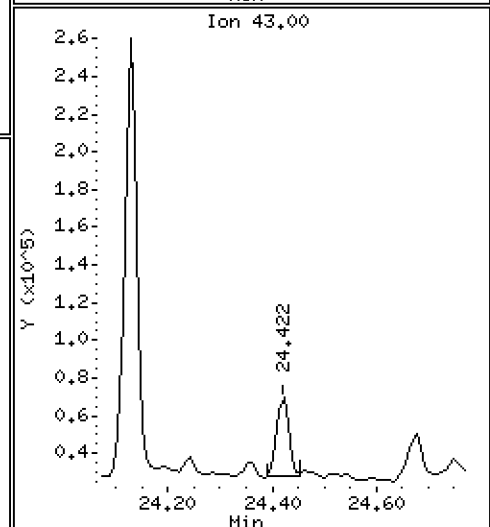
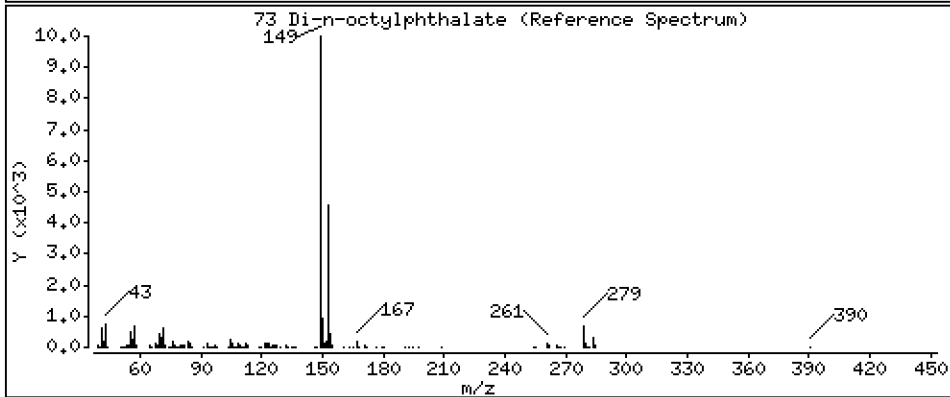
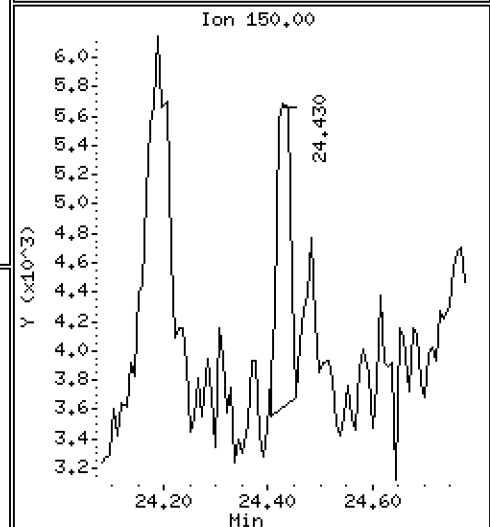
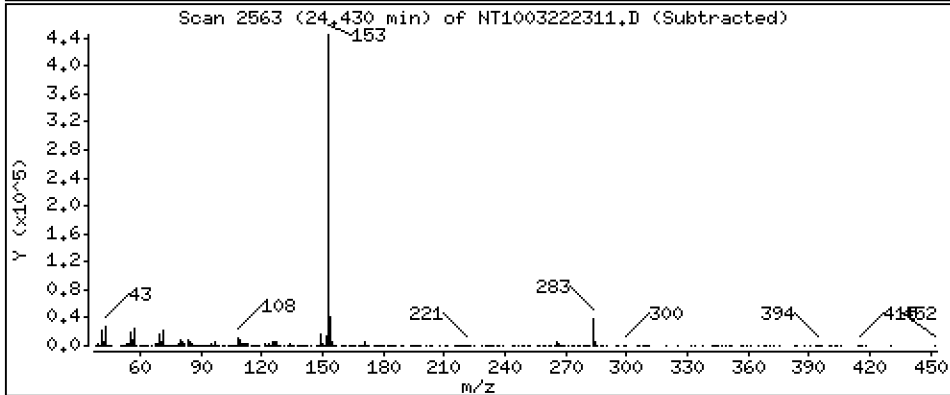
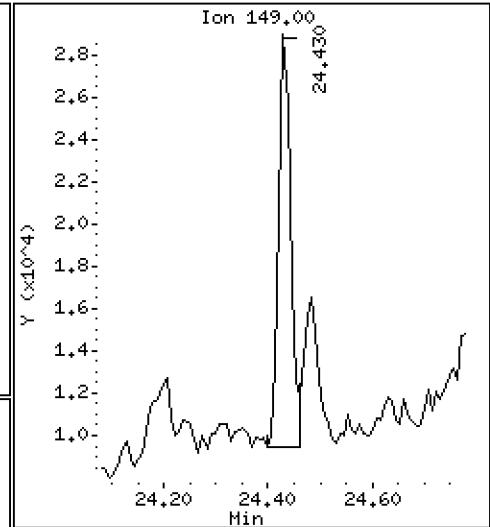
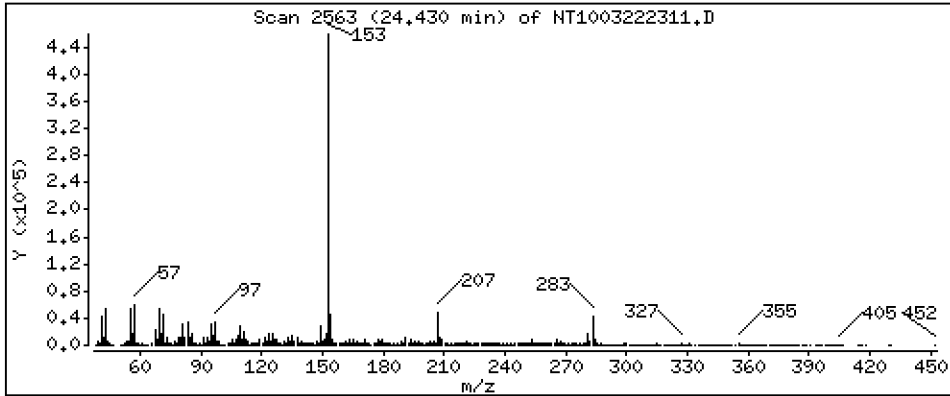
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,1100 ug/mL





Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

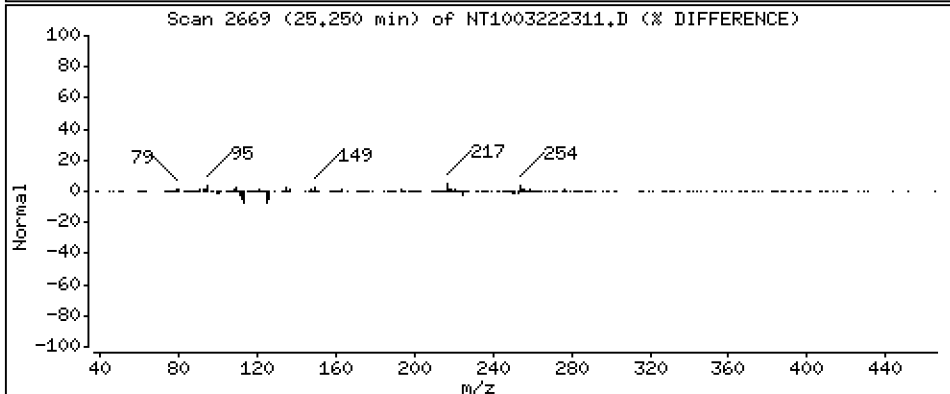
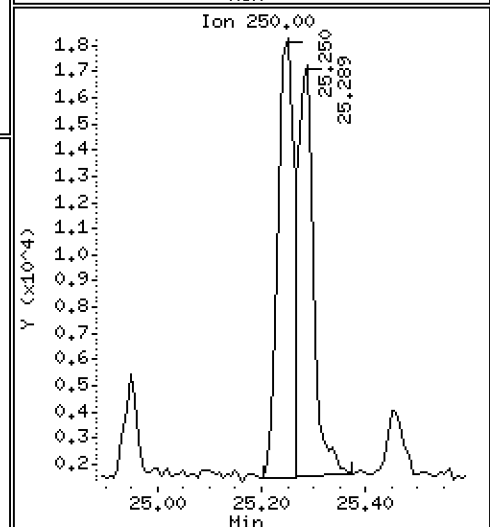
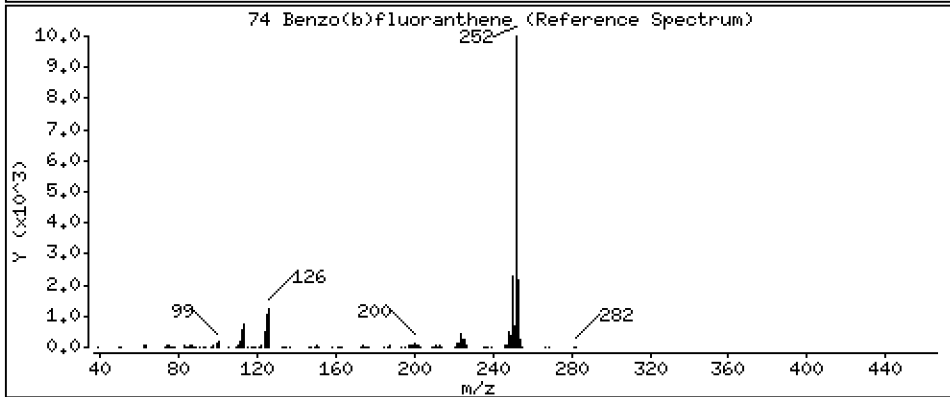
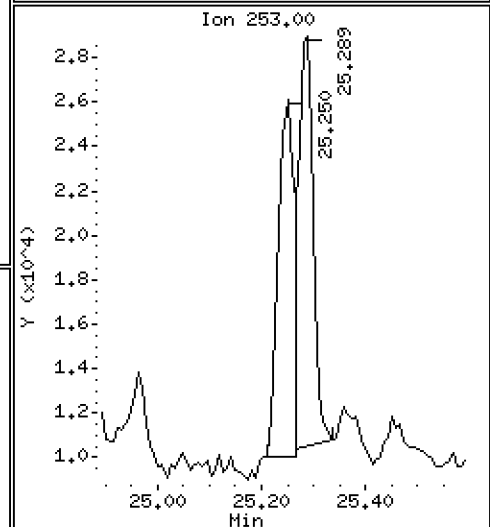
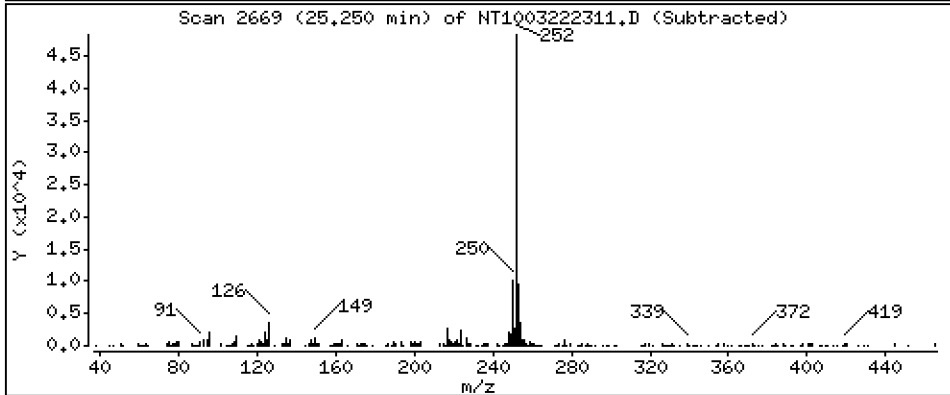
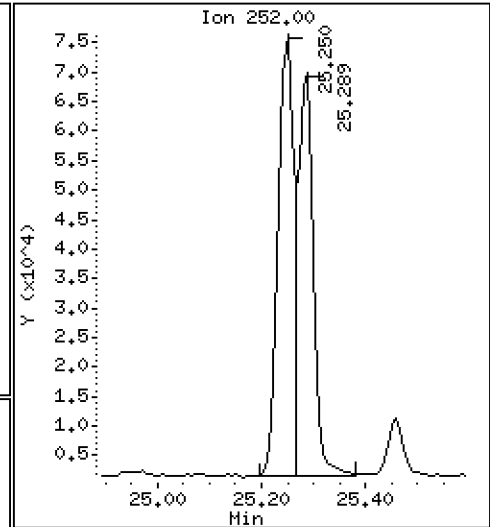
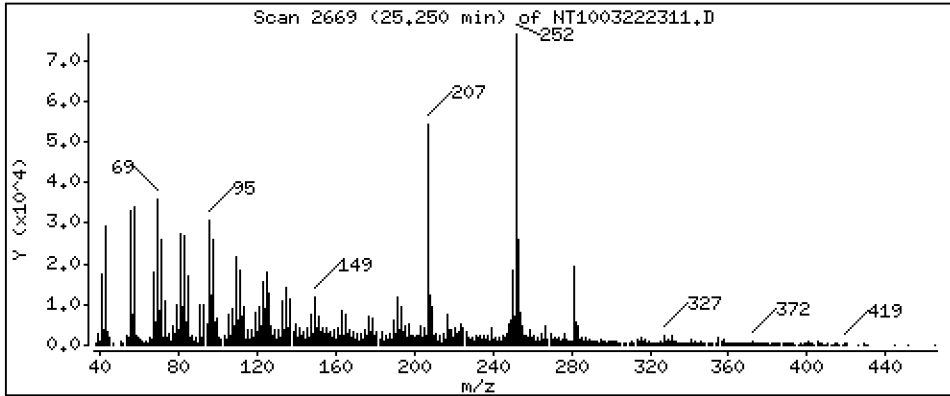
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,6872 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

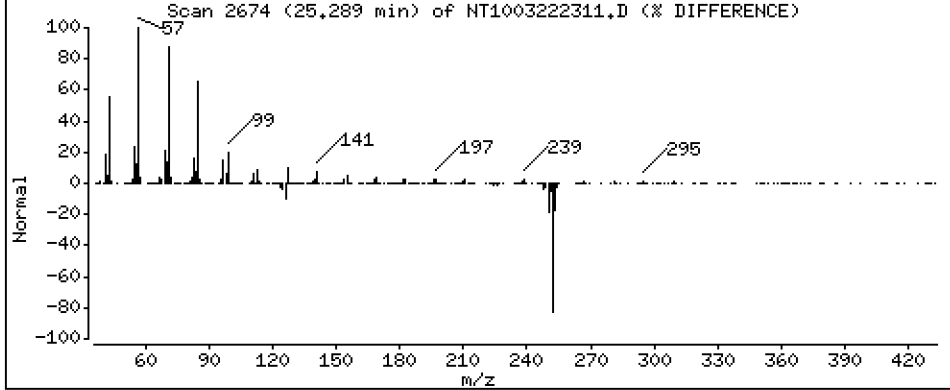
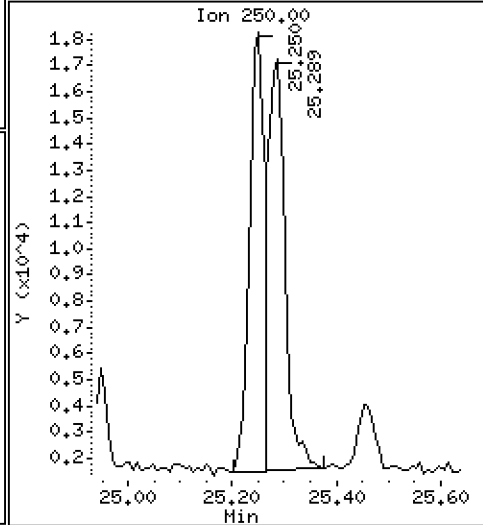
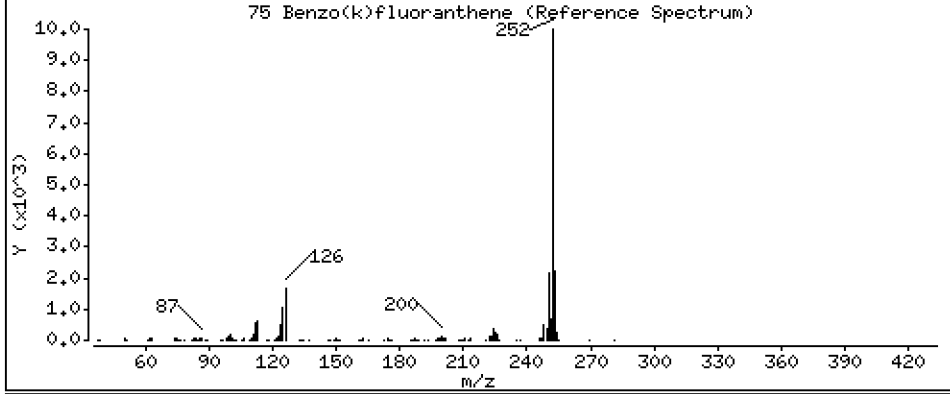
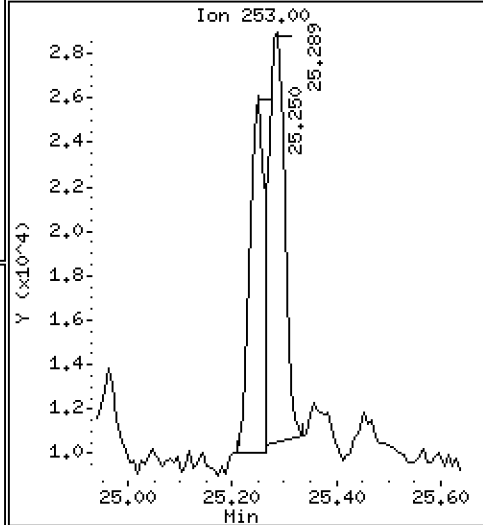
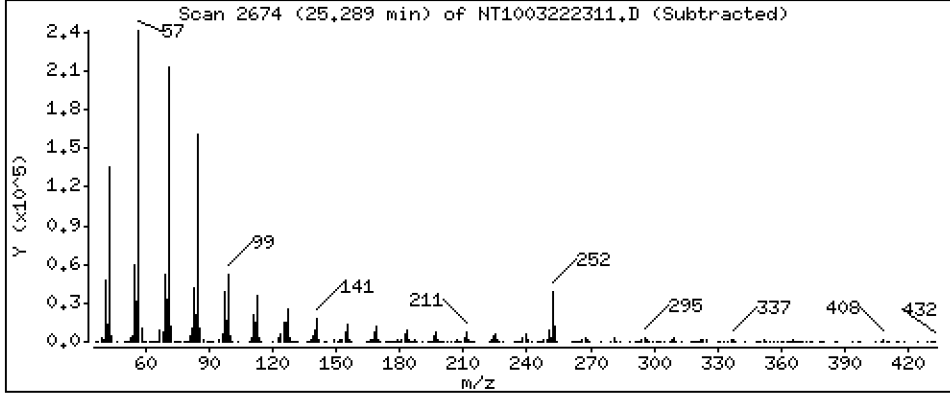
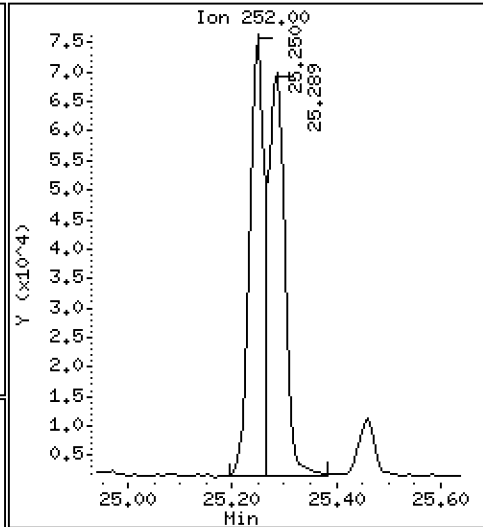
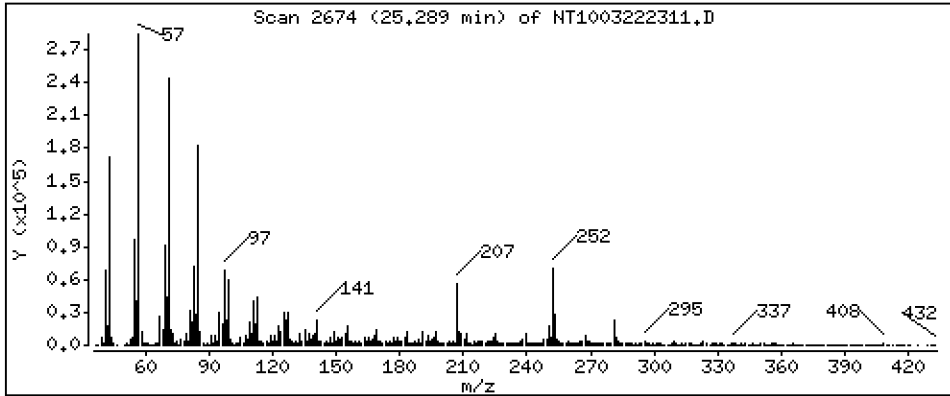
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,6704 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

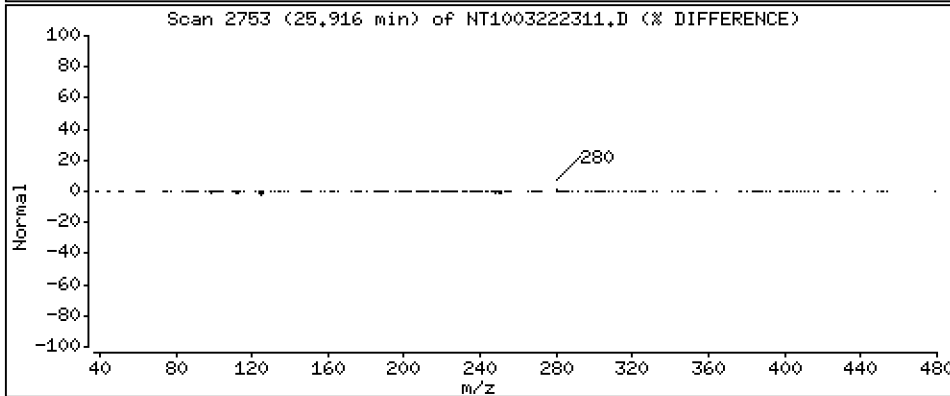
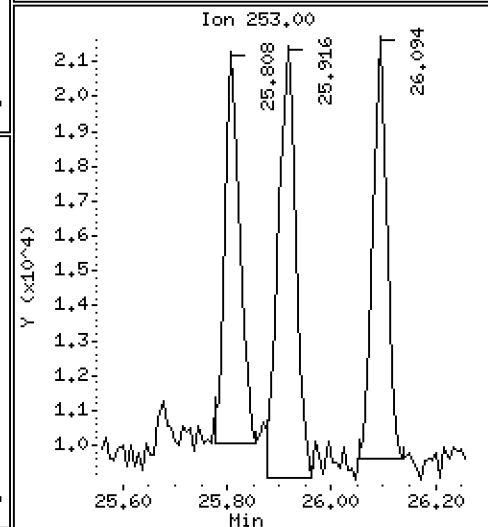
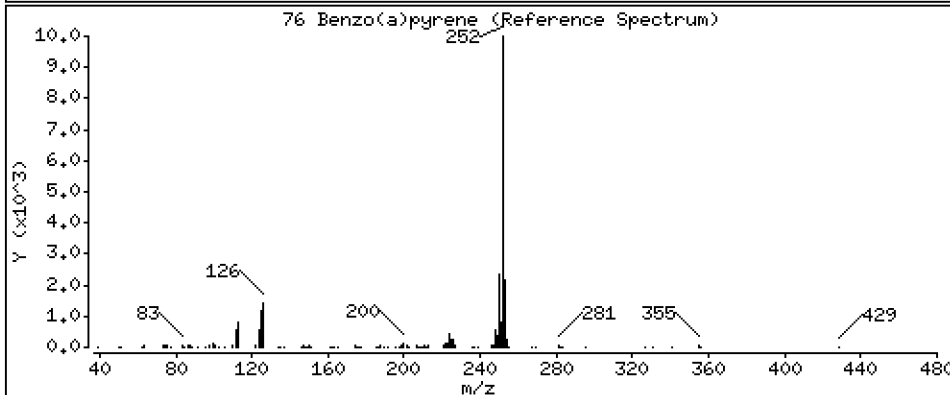
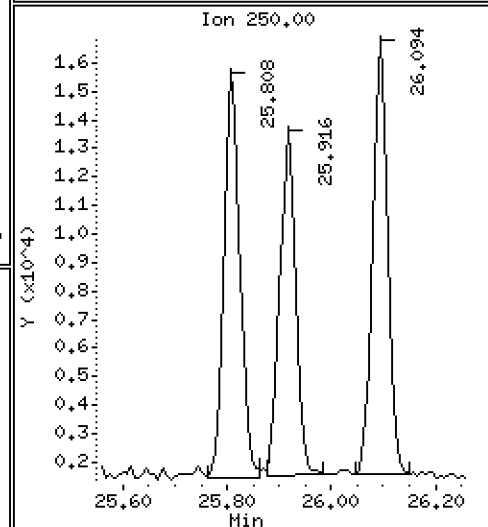
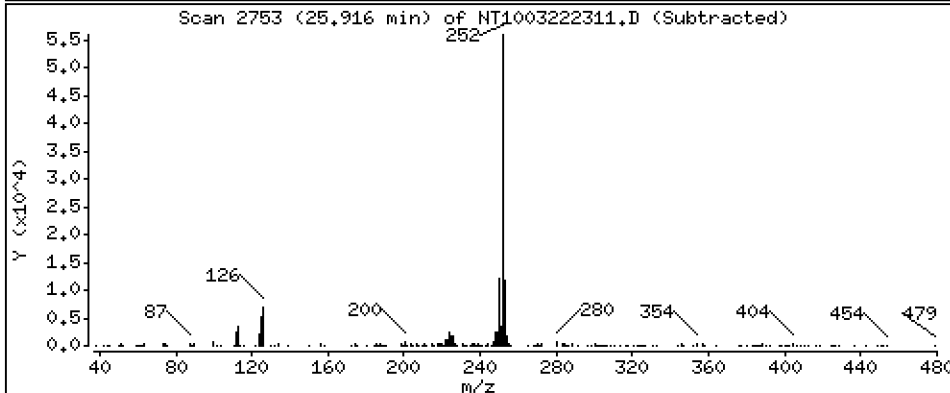
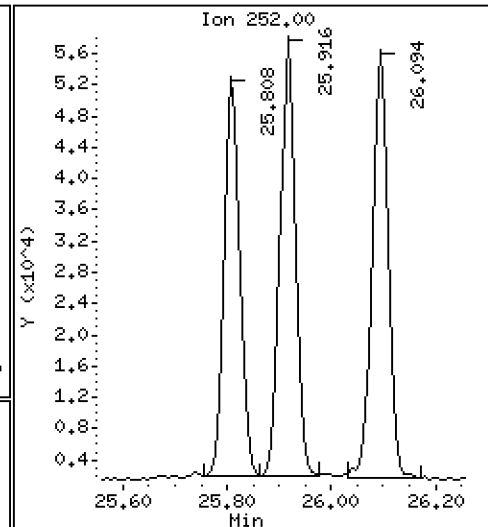
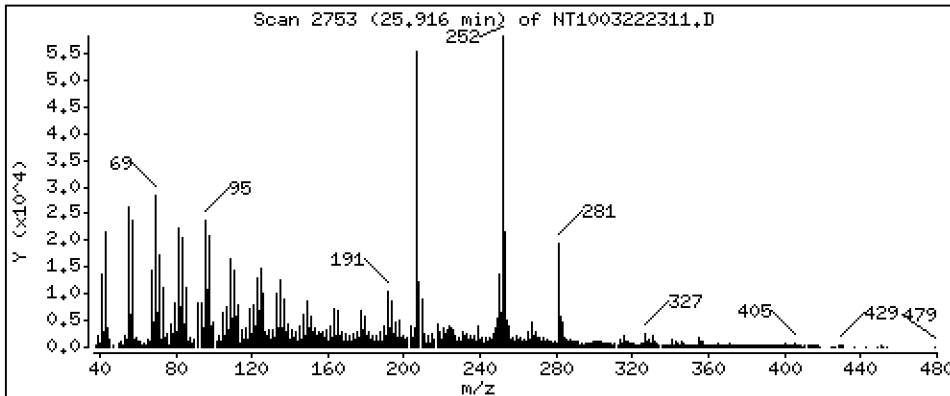
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,5529 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

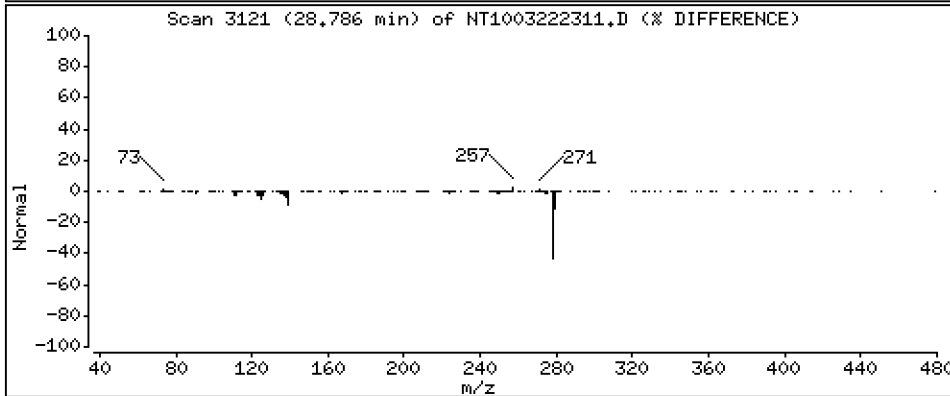
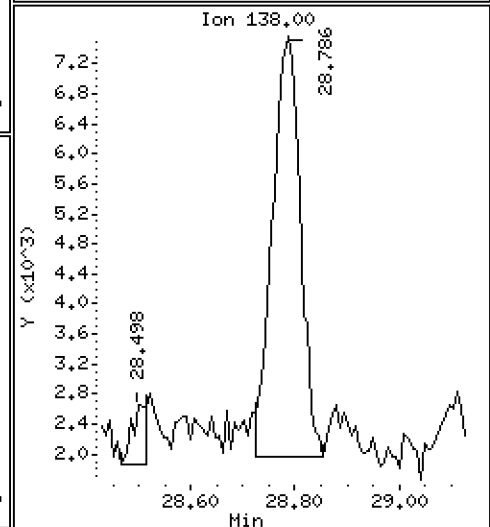
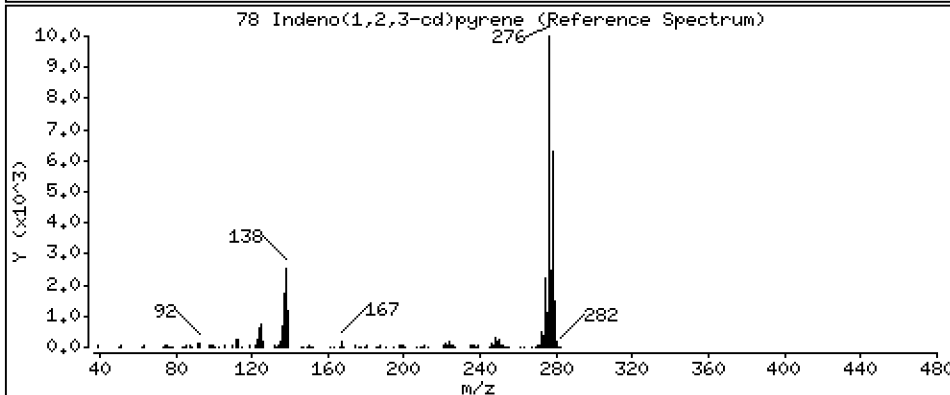
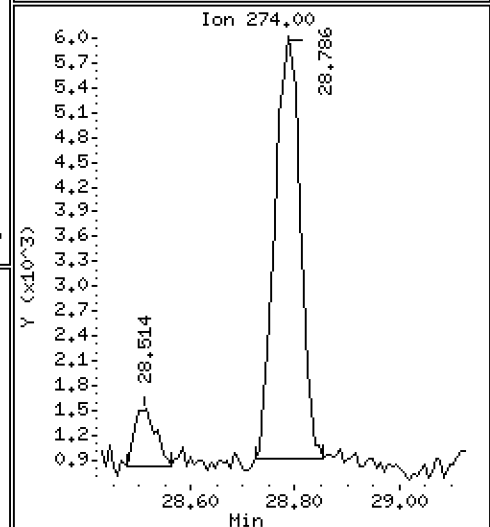
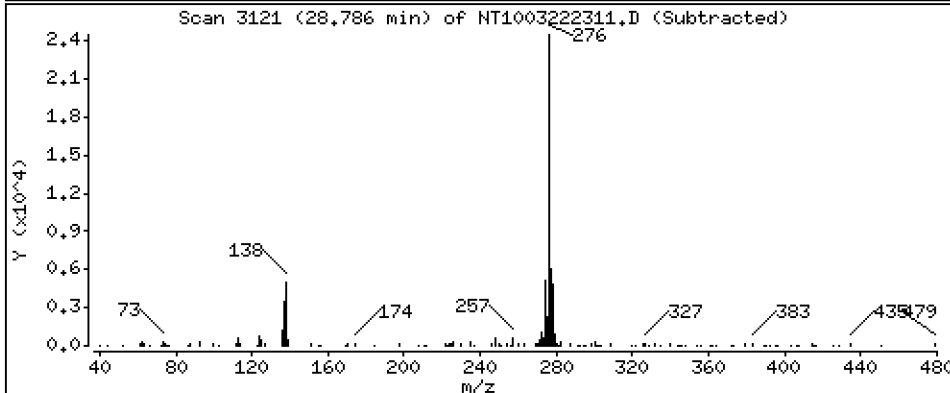
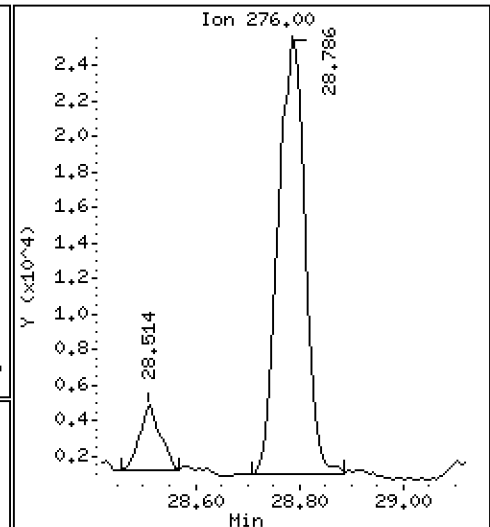
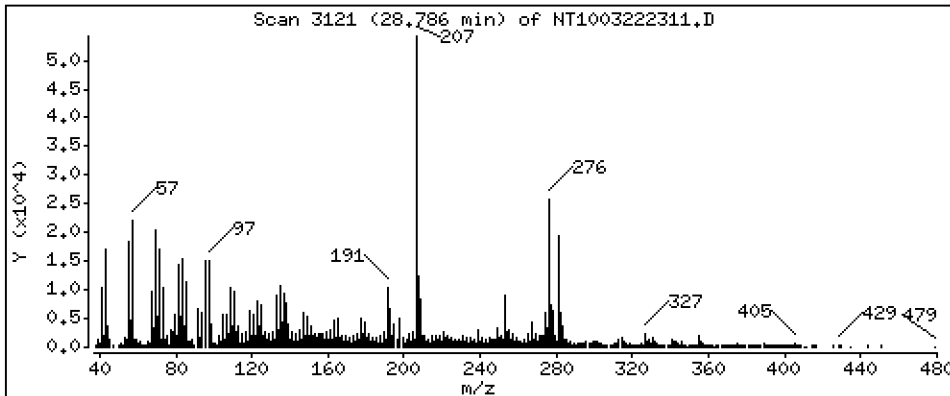
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,3409 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

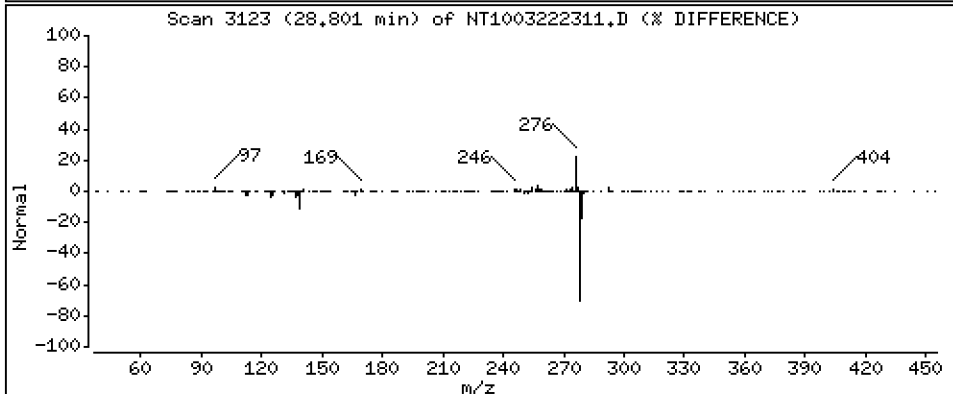
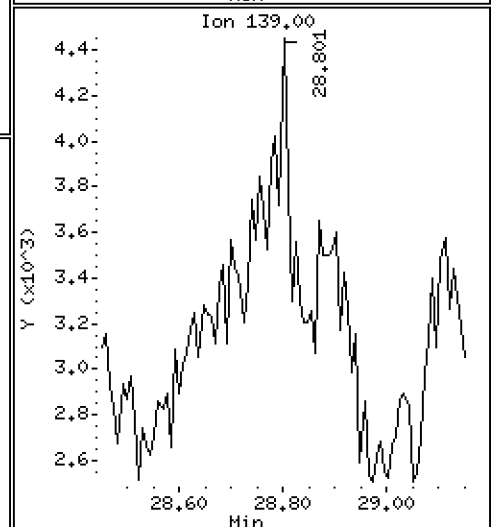
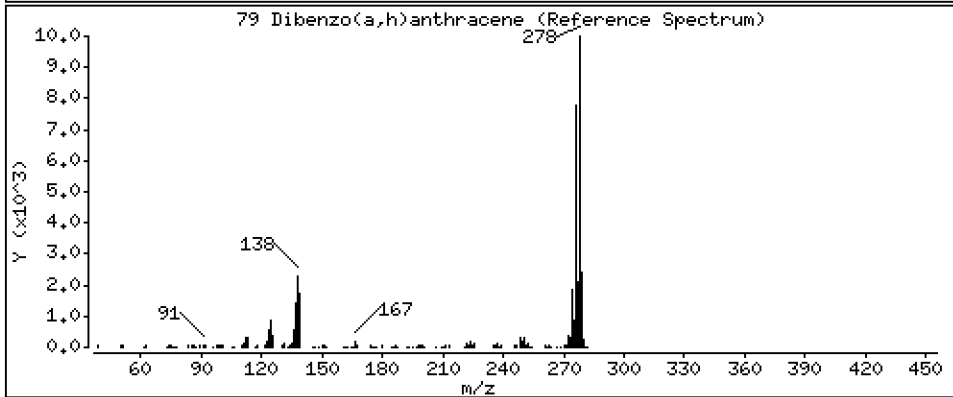
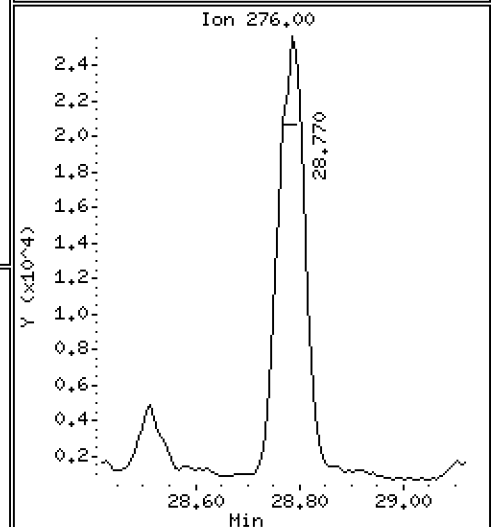
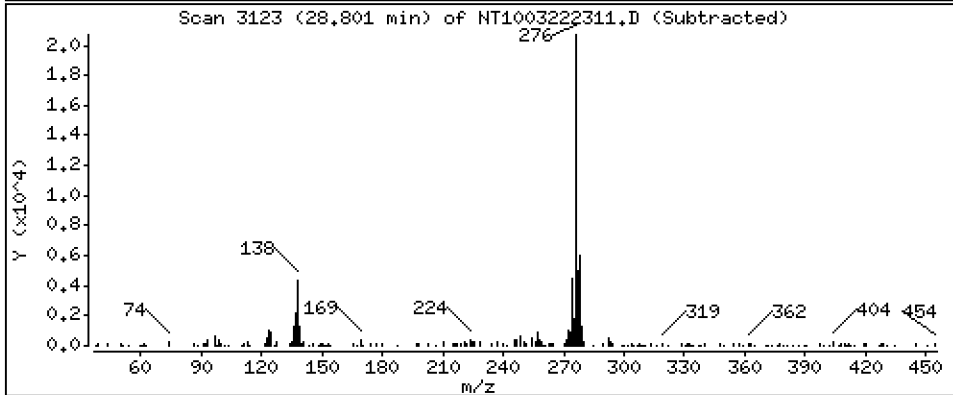
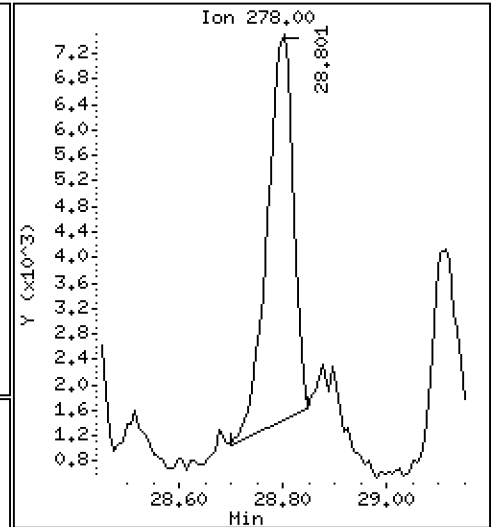
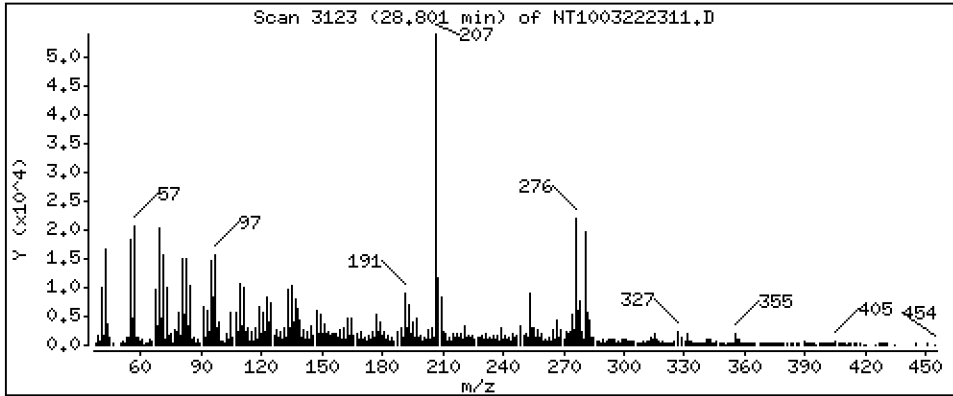
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,09720 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

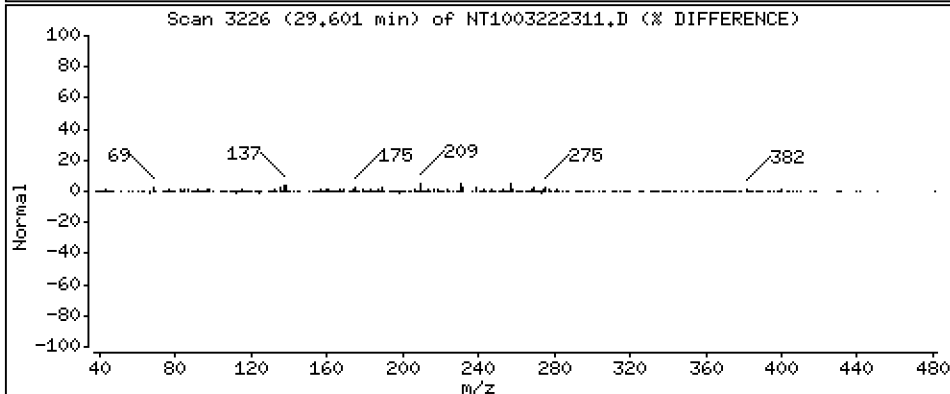
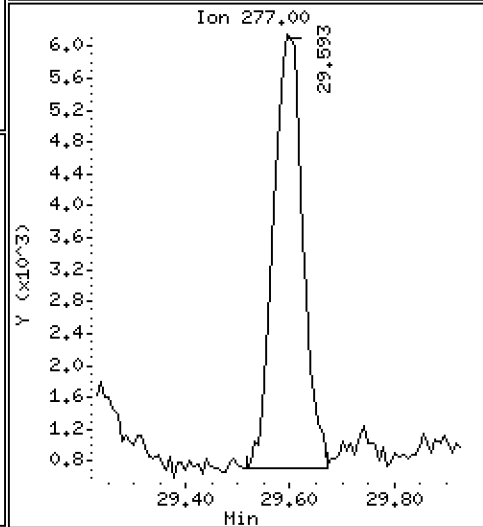
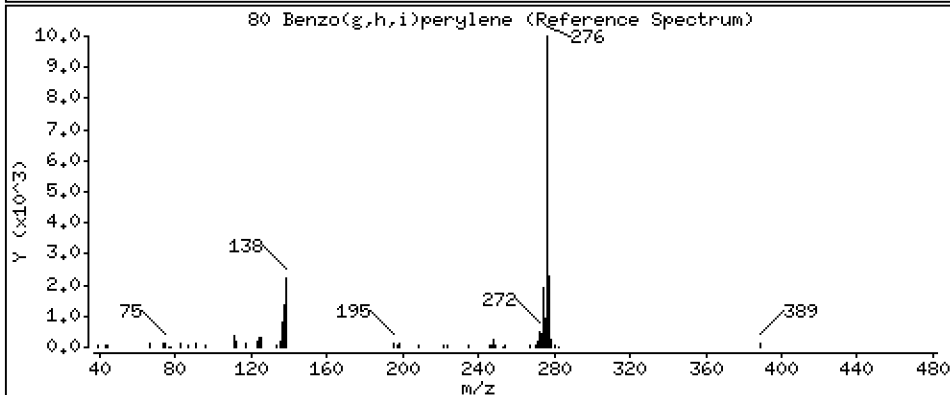
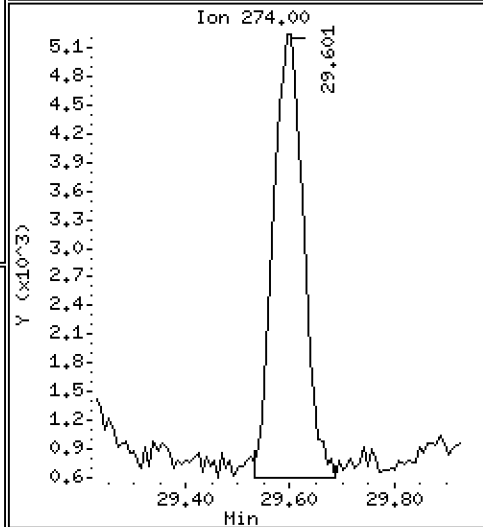
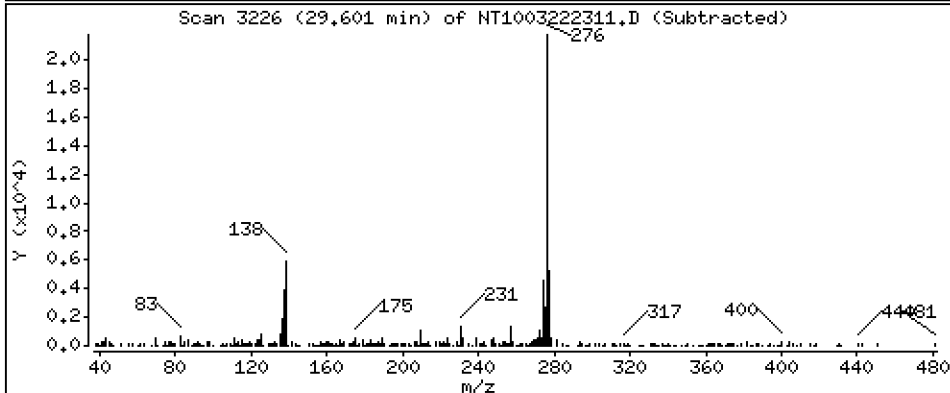
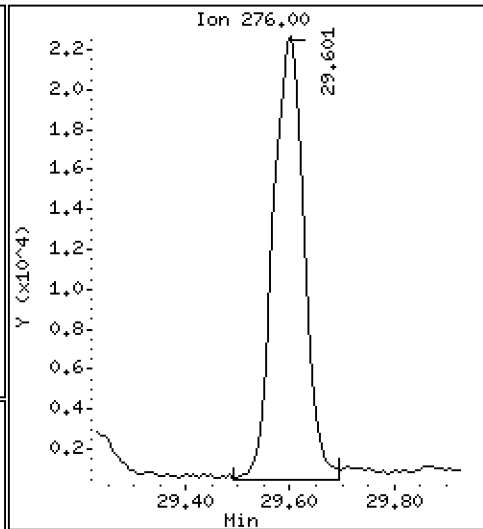
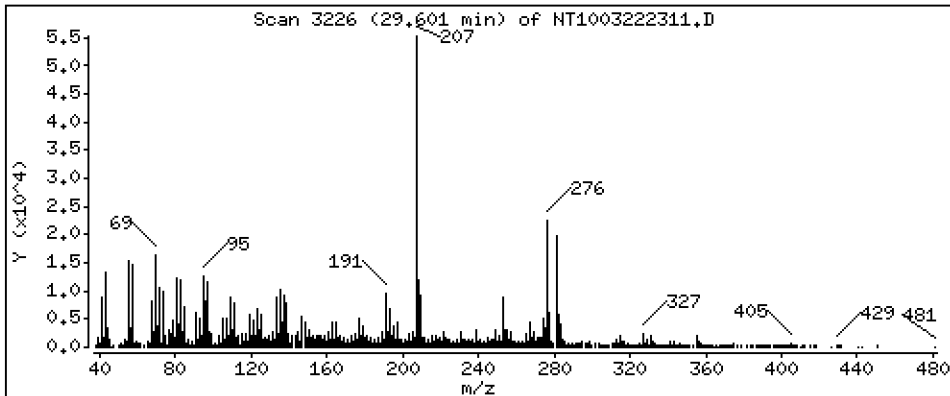
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,4163 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

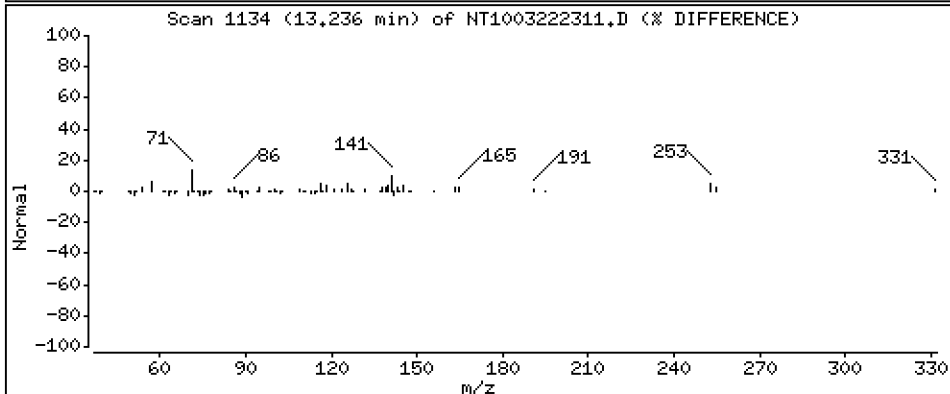
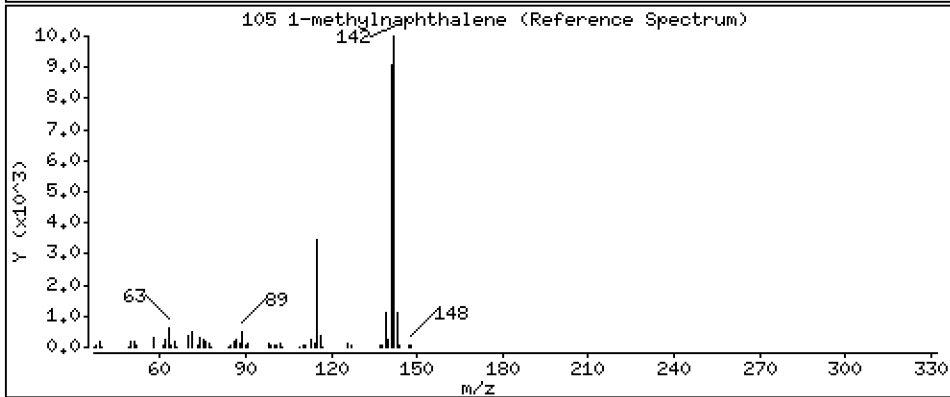
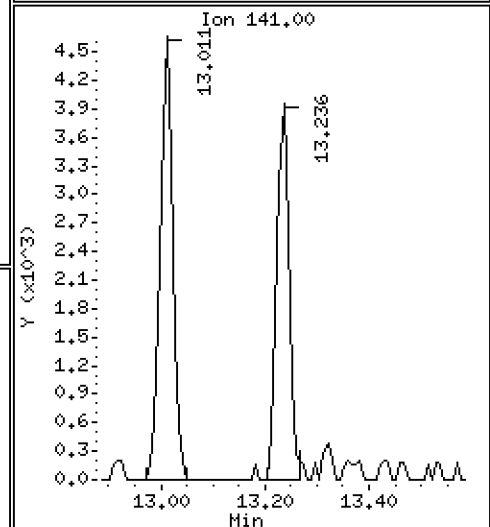
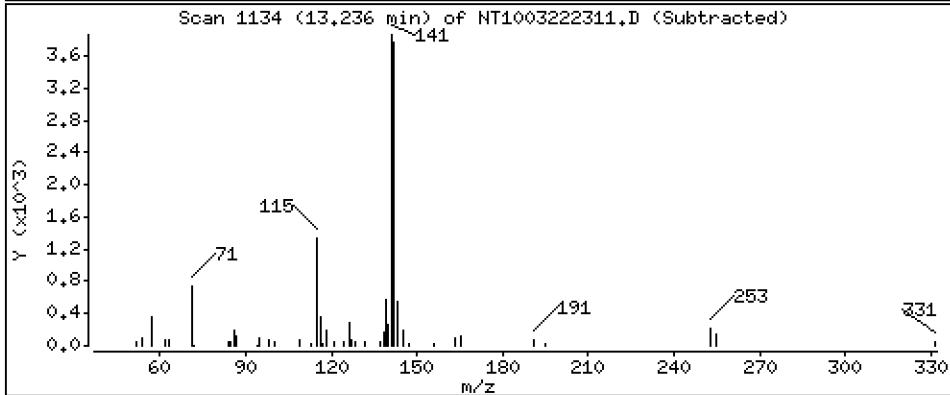
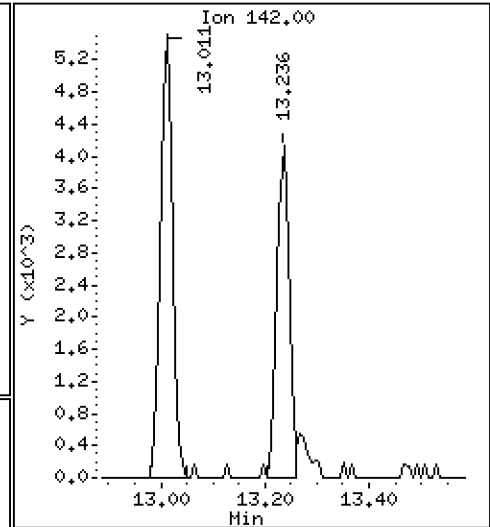
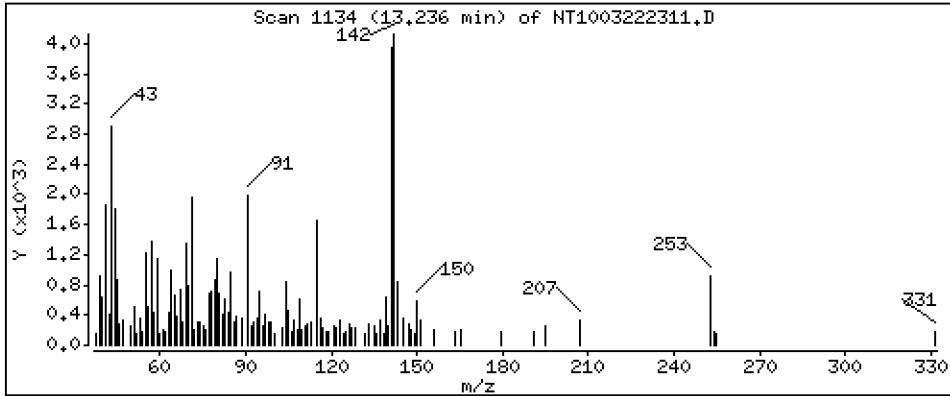
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,05705 ug/mL



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02RE1

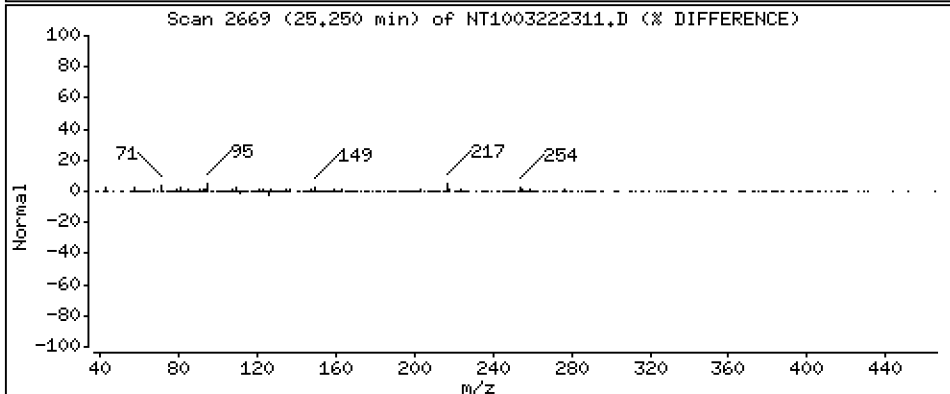
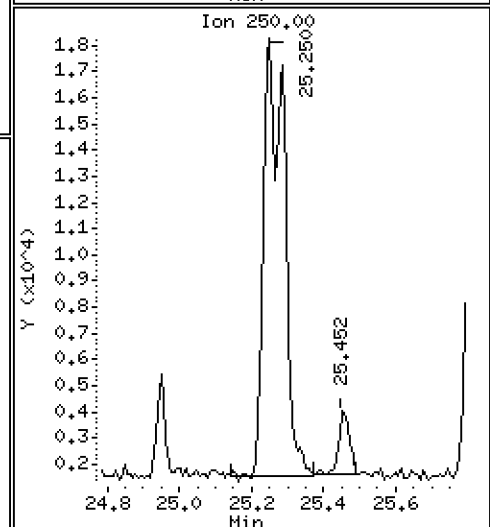
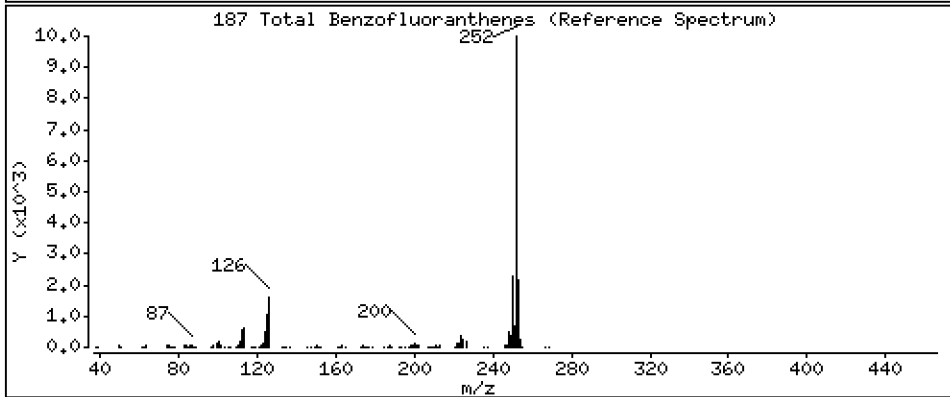
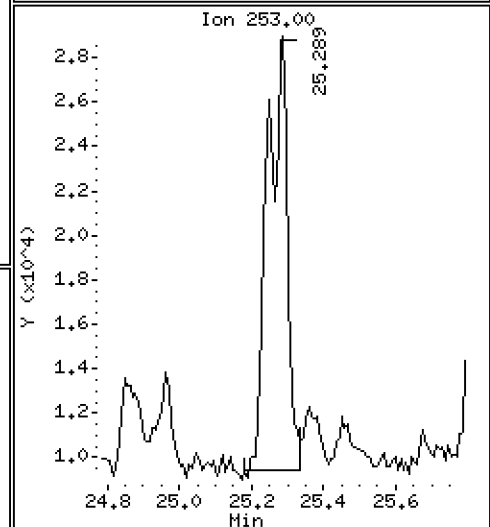
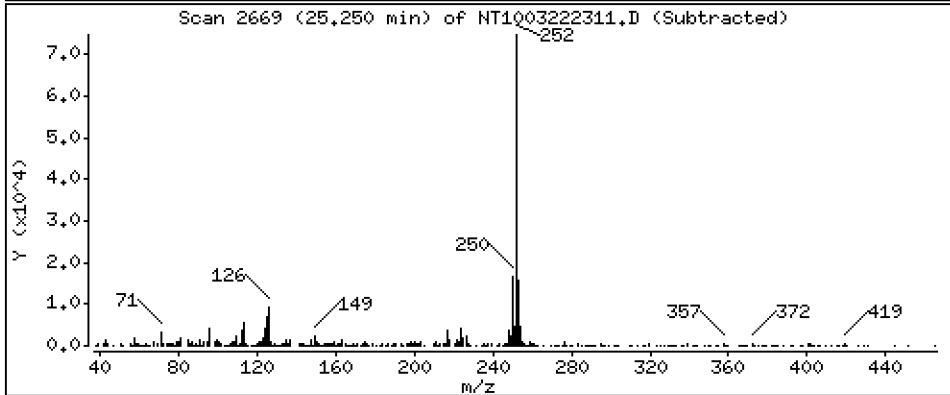
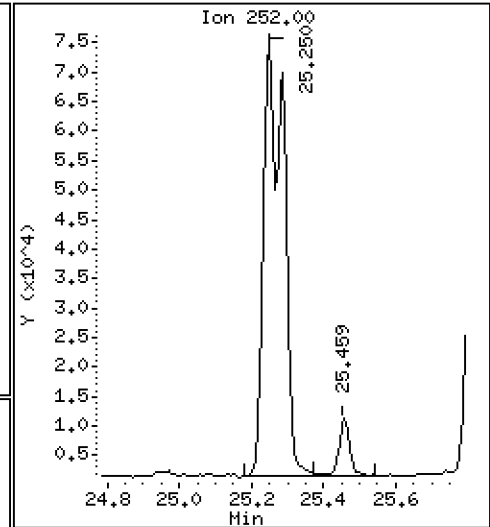
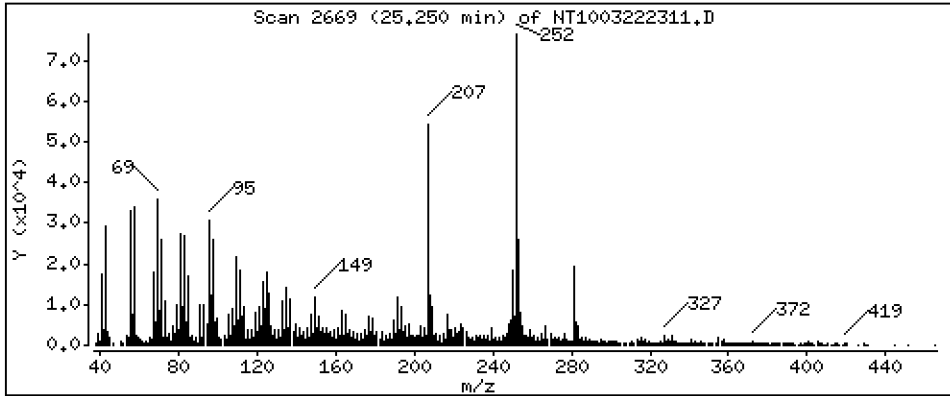
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,320 ug/mL





ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222311.D  
 Lab Smp Id: 23A0179-02RE1  
 Inj Date : 22-MAR-2023 23:27  
 Operator : VTS  
 Smp Info : 23A0179-02RE1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 07:55 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |            |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|------------|
|                                 |       |     |                        |        |         |          | ON-COLUMN      | FINAL      |
|                                 | MASS  |     |                        |        |         |          | (ug/mL)        | (ug/mL)    |
| \$ 1 2-Fluorophenol             | 112   |     | 6.867                  | 6.851  | (0.756) | 302960   | 5.56125        | 5.561      |
| \$ 2 Phenol-d5                  | 99    |     | 8.451                  | 8.450  | (0.930) | 413424   | 5.78492        | 5.785      |
| 3 Phenol                        | 94    |     | 8.474                  | 8.473  | (0.933) | 107919   | 1.45318        | 1.453      |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.721                  | 8.721  | (0.960) | 373958   | 6.12778        | 6.128      |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | Compound Not Detected. |        |         |          |                |            |
| 6 2-Chlorophenol                | 128   |     | Compound Not Detected. |        |         |          |                |            |
| 7 1,3-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |            |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.085                  | 9.084  | (1.000) | 180142   | 4.00000        |            |
| 9 1,4-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |            |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.442                  | 9.449  | (1.039) | 162372   | 3.70488        | 3.705      |
| 12 1,2-Dichlorobenzene          | 146   |     | Compound Not Detected. |        |         |          |                |            |
| 11 Benzyl alcohol               | 108   |     | 9.356                  | 9.356  | (1.030) | 3220     | 0.09238        | 0.09238    |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | Compound Not Detected. |        |         |          |                |            |
| 13 2-Methylphenol               | 108   |     | Compound Not Detected. |        |         |          |                |            |
| 17 Hexachloroethane             | 117   |     | Compound Not Detected. |        |         |          |                |            |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | Compound Not Detected. |        |         |          |                |            |
| 15 4-Methylphenol               | 108   |     | 9.861                  | 9.853  | (1.085) | 9114     | 0.15978        | 0.1598     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.179                 | 10.187 | (0.880) | 251449   | 3.83340        | 3.833      |
| 19 Nitrobenzene                 | 77    |     | Compound Not Detected. |        |         |          |                |            |
| 20 Isophorone                   | 82    |     | Compound Not Detected. |        |         |          |                |            |
| 21 2-Nitrophenol                | 139   |     | Compound Not Detected. |        |         |          |                |            |
| 22 2,4-Dimethylphenol           | 107   |     | Compound Not Detected. |        |         |          |                |            |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | Compound Not Detected. |        |         |          |                |            |
| 24 Benzoic acid                 | 105   |     | 11.003                 | 11.104 | (0.951) | 12866    | 0.39165        | 0.3917 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | Compound Not Detected. |        |         |          |                |            |
| 26 1,2,4-Trichlorobenzene       | 180   |     | Compound Not Detected. |        |         |          |                |            |
| * 27 Naphthalene-d8             | 136   |     | 11.572                 | 11.572 | (1.000) | 649859   | 4.00000        |            |
| 28 Naphthalene                  | 128   |     | 11.611                 | 11.611 | (1.003) | 12890    | 0.07487        | 0.07487    |
| 29 4-Chloroaniline              | 127   |     | Compound Not Detected. |        |         |          |                |            |
| 30 Hexachlorobutadiene          | 225   |     | Compound Not Detected. |        |         |          |                |            |
| 31 4-Chloro-3-methylphenol      | 107   |     | Compound Not Detected. |        |         |          |                |            |
| 32 2-Methylnaphthalene          | 142   |     | 13.011                 | 13.011 | (1.124) | 8669     | 0.06978        | 0.06978    |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                |            |

| Compounds                         | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
|                                   |       |     |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| \$ 36 2-Fluorobiphenyl            | 172   |     | 13.793 | 13.800 | (0.908) | 595181   | 4.25087              | 4.251            |
| 37 2-Chloronaphthalene            | 162   |     |        |        |         |          |                      |                  |
| 38 2-Nitroaniline                 | 65    |     |        |        |         |          |                      |                  |
| 39 Dimethylphthalate              | 163   |     |        |        |         |          |                      |                  |
| 40 Acenaphthylene                 | 152   |     | 14.884 | 14.884 | (0.980) | 6775     | 0.03835              | 0.03835          |
| 41 2,6-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| * 42 Acenaphthene-d10             | 164   |     | 15.193 | 15.193 | (1.000) | 353953   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 44 Acenaphthene                   | 153   |     | 15.263 | 15.263 | (1.005) | 5299     | 0.04855              | 0.04855          |
| 45 2,4-Dinitrophenol              | 184   |     |        |        |         |          |                      |                  |
| 46 Dibenzofuran                   | 168   |     | 15.588 | 15.595 | (1.026) | 8108     | 0.05038              | 0.05038          |
| 47 4-Nitrophenol                  | 109   |     |        |        |         |          |                      |                  |
| 48 2,4-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| 50 Diethylphthalate               | 149   |     | 16.167 | 16.175 | (1.064) | 12062    | 0.10692              | 0.1069           |
| 49 Fluorene                       | 166   |     | 16.306 | 16.306 | (1.073) | 6762     | 0.05341              | 0.05341          |
| 51 4-Chlorophenyl-phenylether     | 204   |     |        |        |         |          |                      |                  |
| 52 4-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     |        |        |         |          |                      |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     |        |        |         |          |                      |                  |
| \$ 55 2,4,6-Tribromophenol        | 330   |     | 16.846 | 16.846 | (1.109) | 148367   | 9.01564              | 9.016            |
| 56 4-Bromophenyl-phenylether      | 248   |     |        |        |         |          |                      |                  |
| 57 Hexachlorobenzene              | 284   |     |        |        |         |          |                      |                  |
| 58 Pentachlorophenol              | 266   |     |        |        |         |          |                      |                  |
| * 59 Phenanthrene-d10             | 188   |     | 18.253 | 18.253 | (1.000) | 665241   | 4.00000              |                  |
| 60 Phenanthrene                   | 178   |     | 18.299 | 18.299 | (1.003) | 92552    | 0.51022              | 0.5102           |
| 61 Anthracene                     | 178   |     | 18.392 | 18.392 | (1.008) | 25247    | 0.14509              | 0.1451           |
| 62 Carbazole                      | 167   |     | 18.733 | 18.725 | (1.026) | 9939     | 0.06374              | 0.06374          |
| 63 Di-n-butylphthalate            | 149   |     | 19.545 | 19.545 | (1.071) | 8310     | 0.03963              | 0.03963          |
| 64 Fluoranthene                   | 202   |     | 20.752 | 20.705 | (0.889) | 222351   | 0.94230              | 0.9423           |
| 65 Pyrene                         | 202   |     | 21.139 | 21.131 | (0.905) | 257113   | 1.06219              | 1.062            |
| \$ 66 Terphenyl-d14               | 244   |     | 21.433 | 21.425 | (0.918) | 792127   | 4.35758              | 4.358            |
| 67 Butylbenzylphthalate           | 149   |     |        |        |         |          |                      |                  |
| 68 Benzo(a)anthracene             | 228   |     | 23.314 | 23.314 | (0.998) | 100903   | 0.48680              | 0.4868           |
| * 69 Chrysene-d12                 | 240   |     | 23.353 | 23.345 | (1.000) | 587247   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     |        |        |         |          |                      |                  |
| 71 Chrysene                       | 228   |     | 23.392 | 23.392 | (1.002) | 128530   | 0.63469              | 0.6347           |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 23.415 | 23.407 | (0.959) | 100444   | 0.66555              | 0.6656           |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 24.421 | 24.413 | (1.000) | 1031564  | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149   |     | 24.429 | 24.429 | (1.000) | 29696    | 0.11000              | 0.1100           |
| 74 Benzo(b)fluoranthene           | 252   |     | 25.250 | 25.242 | (0.970) | 155689   | 0.68719              | 0.6872           |
| 75 Benzo(k)fluoranthene           | 252   |     | 25.289 | 25.288 | (0.971) | 154222   | 0.67037              | 0.6704           |
| 76 Benzo(a)pyrene                 | 252   |     | 25.916 | 25.908 | (0.995) | 111999   | 0.55292              | 0.5529           |
| * 77 Perylene-d12                 | 264   |     | 26.040 | 26.024 | (1.000) | 698935   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 28.785 | 28.769 | (1.105) | 87838    | 0.34085              | 0.3409           |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 28.801 | 28.800 | (1.106) | 20797    | 0.09720              | 0.09720 (M)      |
| 80 Benzo(g,h,i)perylene           | 276   |     | 29.601 | 29.577 | (1.137) | 92845    | 0.41631              | 0.4163           |
| 90 N-Nitrosodimethylamine         | 74    |     |        |        |         |          |                      |                  |
| 91 Aniline                        | 93    |     |        |        |         |          |                      |                  |
| 93 Benzidine                      | 184   |     |        |        |         |          |                      |                  |
| 103 Pyridine                      | 79    |     |        |        |         |          |                      |                  |
| 105 1-methylnaphthalene           | 142   |     | 13.235 | 13.235 | (1.144) | 6494     | 0.05705              | 0.05705          |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     |        |        |         |          |                      |                  |

| Compounds                     | QUANT SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |  |
|-------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|--|
|                               |           |                        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |  |
| 187 Total Benzofluoranthenes  | 252       | 25.250                 | 25.288 | (0.970) | 288786   | 1.32017              | 1.320            |  |
| 120 2,3,4,6-Tetrachlorophenol | 232       | Compound Not Detected. |        |         |          |                      |                  |  |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 22-MAR-2023  
 Lab File ID: NT1003222311.D Calibration Time: 17:42  
 Lab Smp Id: 23A0179-02RE1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE  | %DIFF |
|-----------------------|----------|------------|---------|---------|-------|
|                       |          | LOWER      | UPPER   |         |       |
| 8 1,4-Dichlorobenze   | 122478   | 61239      | 244956  | 180142  | 47.08 |
| 27 Naphthalene-d8     | 459261   | 229631     | 918522  | 649859  | 41.50 |
| 42 Acenaphthene-d10   | 264106   | 132053     | 528212  | 353953  | 34.02 |
| 59 Phenanthrene-d10   | 503255   | 251628     | 1006510 | 665241  | 32.19 |
| 69 Chrysene-d12       | 437735   | 218868     | 875470  | 587247  | 34.16 |
| 134 Di-n-octylphthala | 700191   | 350096     | 1400382 | 1031564 | 47.33 |
| 77 Perylene-d12       | 499049   | 249525     | 998098  | 698935  | 40.05 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.08     | 8.58     | 9.58  | 9.09   | 0.00  |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.57  | 0.00  |
| 42 Acenaphthene-d10   | 15.19    | 14.69    | 15.69 | 15.19  | 0.00  |
| 59 Phenanthrene-d10   | 18.25    | 17.75    | 18.75 | 18.25  | 0.00  |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.35  | 0.03  |
| 134 Di-n-octylphthala | 24.41    | 23.91    | 24.91 | 24.42  | 0.03  |
| 77 Perylene-d12       | 26.02    | 25.52    | 26.52 | 26.04  | 0.06  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222311.D

Lab ID: 23A0179-02RE1  
nt10.i, 20230322.b\ABN.m, 22-MAR-2023 23:27

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND     |
|-------|---------|---------|--------------|
| 0.951 | 0.960   | -0.0088 | Benzoic acid |

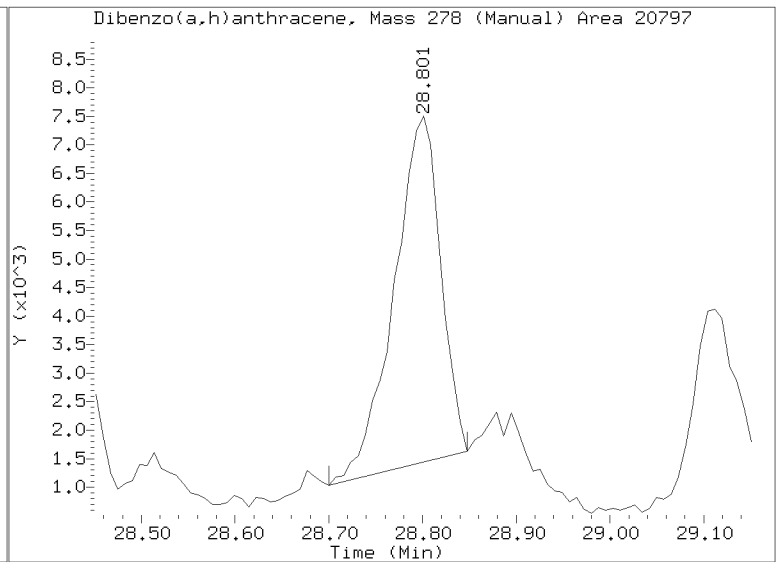
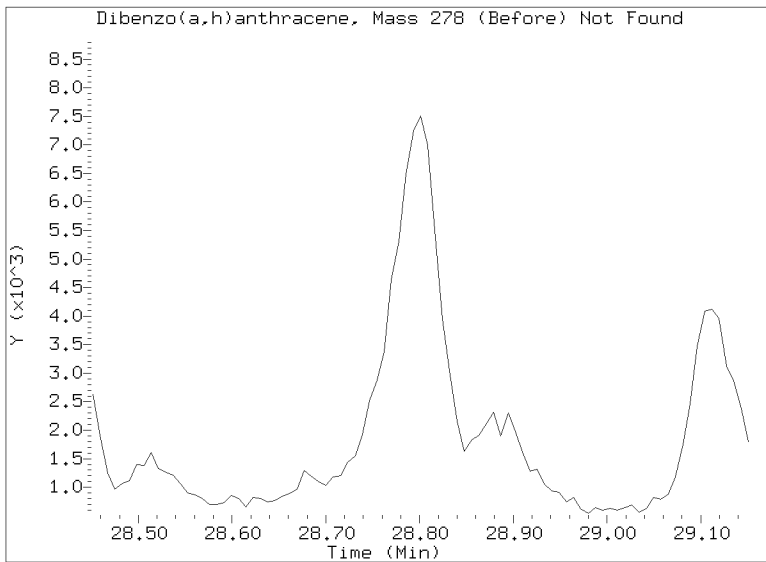
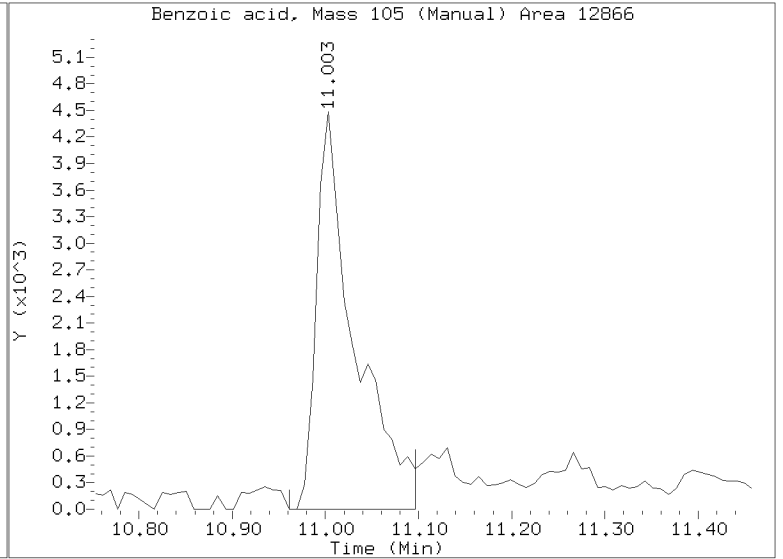
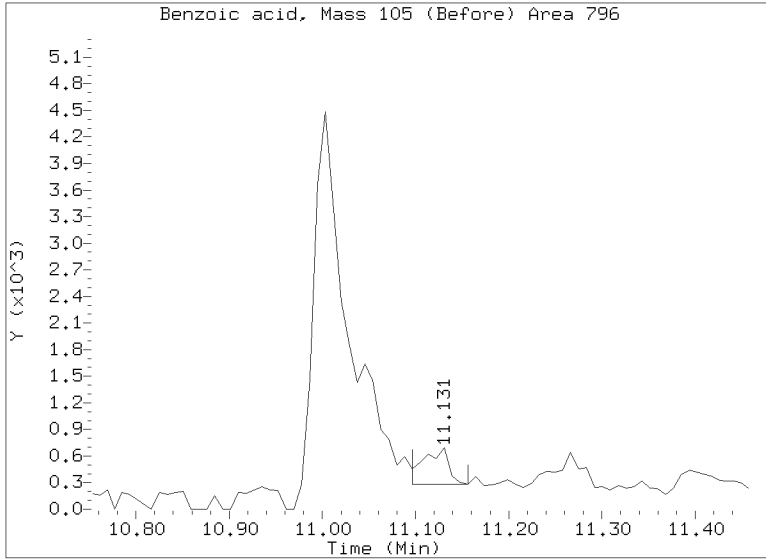
RRT check based on Ccal File: NT1003222302.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222311.D  
Injection Date: 22-MAR-2023 23:27  
Lab ID:23A0179-02RE1 Client ID:  
Report Date: 03/25/2023 07:56





Form I  
ORGANIC ANALYSIS DATA SHEET  
EPA 8270E  
Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-03RE1 A

SDG: 23A0179

Sampled: 01/10/23 09:04

Prepared: 03/17/23 11:16

File ID: NT1003222312.D

% Solids: 58.58

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 00:05

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 17.1 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| CAS NO.  | COMPOUND                    | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|-----------------------------|----------|----------------------|---|------|------|
| 108-95-2 | Phenol                      | 1        | 331                  |   | 4.4  | 20.0 |
| 106-44-5 | 4-Methylphenol              | 1        | 54.9                 |   | 7.4  | 20.0 |
| 91-20-3  | Naphthalene                 | 1        | 8.3                  | J | 4.2  | 20.0 |
| 91-57-6  | 2-Methylnaphthalene         | 1        | 7.6                  | J | 4.5  | 20.0 |
| 208-96-8 | Acenaphthylene              | 1        | 20.0                 | U | 6.2  | 20.0 |
| 131-11-3 | Dimethylphthalate           | 1        | 20.0                 | U | 4.4  | 20.0 |
| 83-32-9  | Acenaphthene                | 1        | 6.4                  | J | 5.2  | 20.0 |
| 132-64-9 | Dibenzofuran                | 1        | 20.0                 | U | 14.1 | 20.0 |
| 86-73-7  | Fluorene                    | 1        | 20.0                 | U | 14.5 | 20.0 |
| 85-01-8  | Phenanthrene                | 1        | 51.5                 |   | 8.7  | 20.0 |
| 120-12-7 | Anthracene                  | 1        | 19.2                 | J | 7.2  | 20.0 |
| 206-44-0 | Fluoranthene                | 1        | 109                  |   | 6.1  | 20.0 |
| 129-00-0 | Pyrene                      | 1        | 105                  |   | 5.7  | 20.0 |
| 85-68-7  | Butylbenzylphthalate        | 1        | 9.4                  | J | 9.4  | 20.0 |
| 56-55-3  | Benzo(a)anthracene          | 1        | 52.4                 |   | 5.9  | 20.0 |
| 218-01-9 | Chrysene                    | 1        | 71.4                 |   | 6.0  | 20.0 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate  | 1        | 94.7                 |   | 5.5  | 49.9 |
|          | Benzo(a)fluoranthene, Total | 1        | 144                  |   | 10.0 | 39.9 |
| 50-32-8  | Benzo(a)pyrene              | 1        | 56.2                 |   | 4.2  | 20.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene      | 1        | 32.7                 |   | 14.6 | 20.0 |
| 53-70-3  | Dibenzo(a,h)anthracene      | 1        | 20.0                 | U | 17.2 | 20.0 |
| 191-24-2 | Benzo(g,h,i)perylene        | 1        | 38.4                 |   | 13.6 | 20.0 |

| SURROGATES             | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol         | 748.71                | 572                   | 76.4  | 27 - 120  |   |
| Phenol-d5              | 748.71                | 593                   | 79.2  | 29 - 120  |   |
| 2-Chlorophenol-d4      | 748.71                | 623                   | 83.2  | 31 - 120  |   |
| 1,2-Dichlorobenzene-d4 | 499.14                | 379                   | 75.8  | 32 - 120  |   |
| Nitrobenzene-d5        | 499.14                | 389                   | 78.0  | 30 - 120  |   |
| 2-Fluorobiphenyl       | 499.14                | 425                   | 85.2  | 35 - 120  |   |



**Form I**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8270E**  
**Semivolatiles (20ug/kg - 0.2ug/L SepF)**

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-03RE1 A

SDG: 23A0179

Sampled: 01/10/23 09:04

Prepared: 03/17/23 11:16

File ID: NT1003222312.D

% Solids: 58.58

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 00:05

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 17.1 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| SURROGATES           | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------|-----------------------|-----------------------|-------|-----------|---|
| 2,4,6-Tribromophenol | 748.71                | 894                   | 119   | 24 - 134  | Q |
| p-Terphenyl-d14      | 499.14                | 427                   | 85.5  | 37 - 120  |   |



Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222312.D

Date: 23-MAR-2023 00:05

Client ID:

Sample Info: 23A0179-03REL

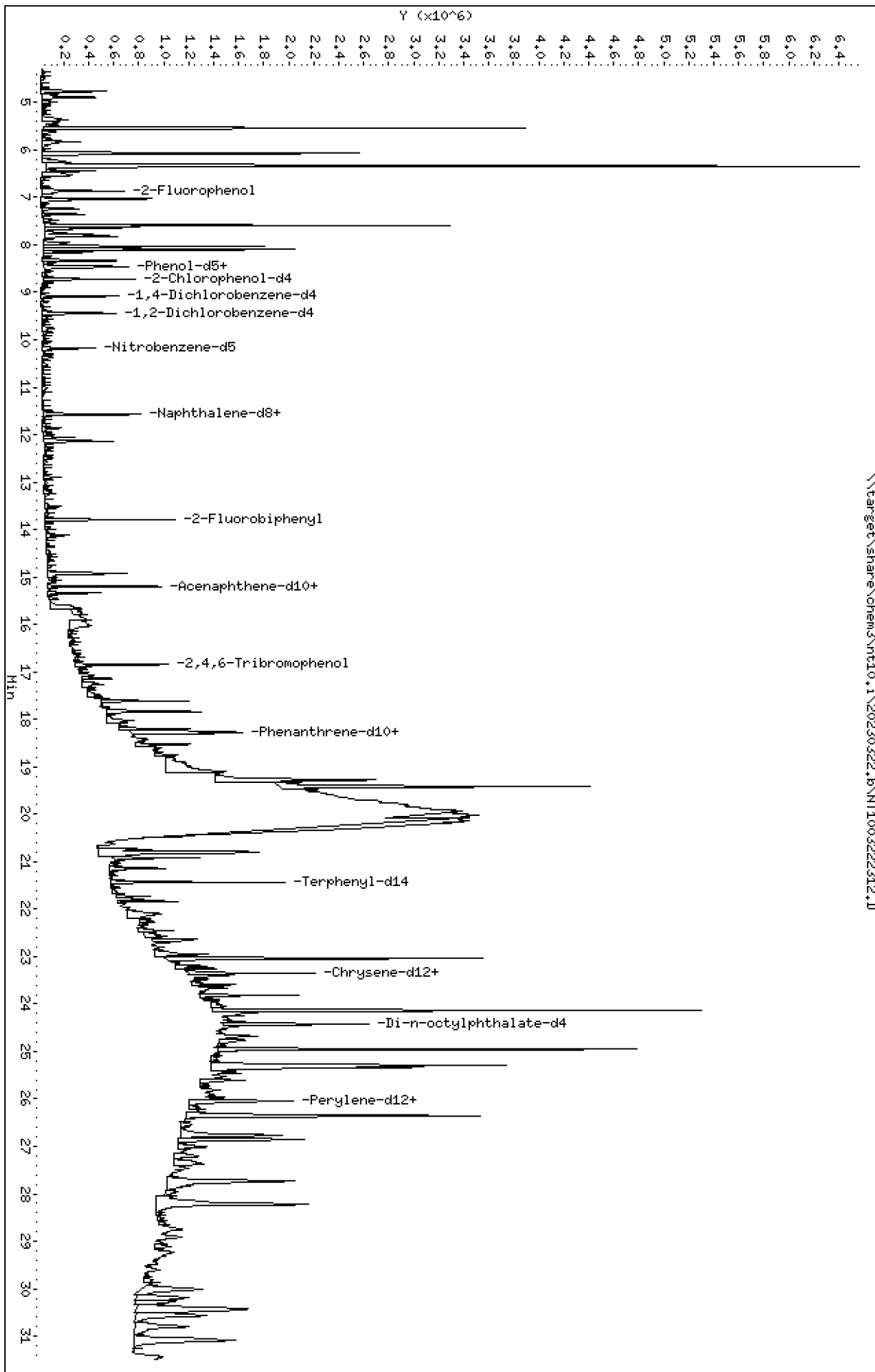
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\NT1003222312.D



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

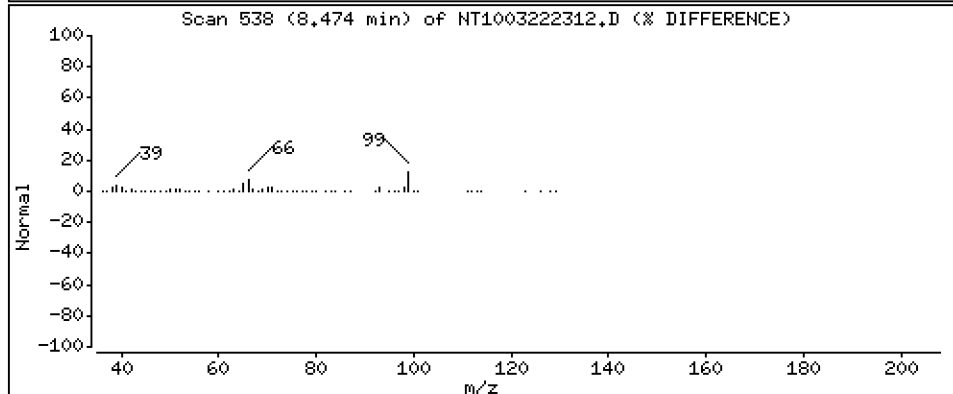
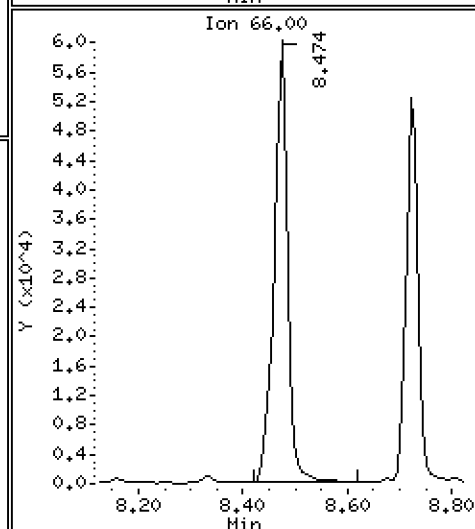
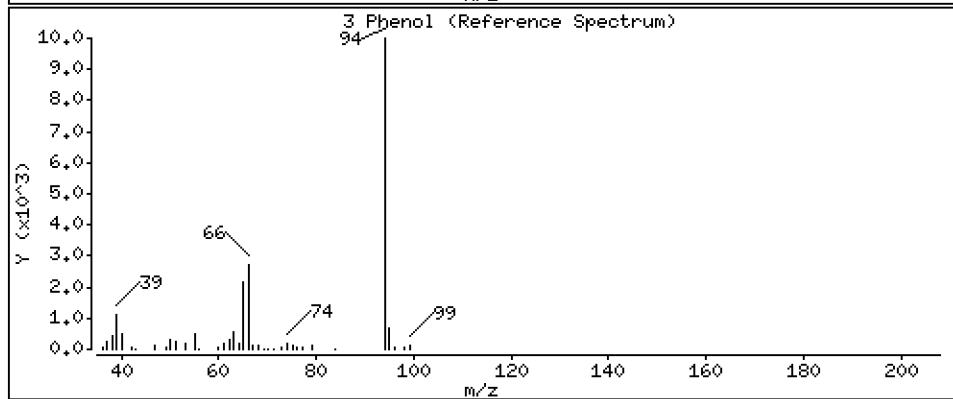
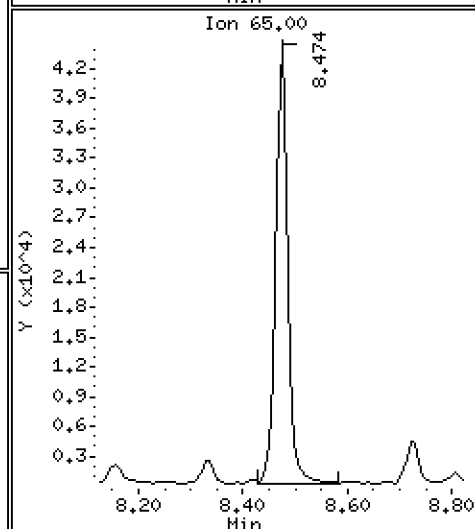
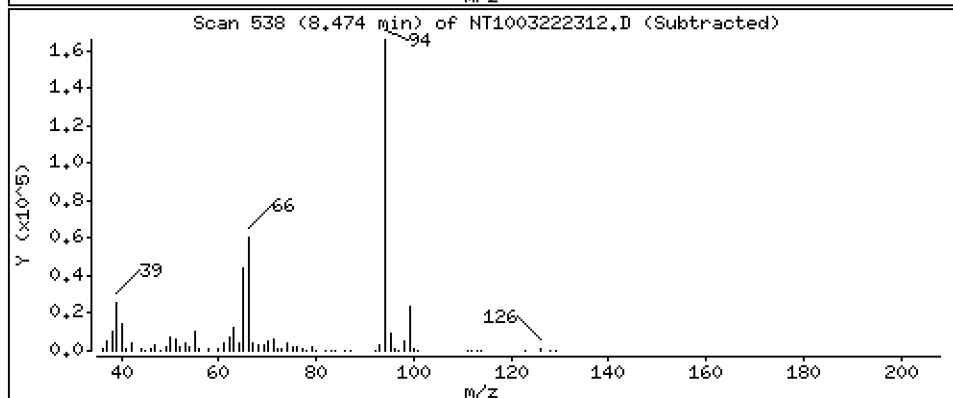
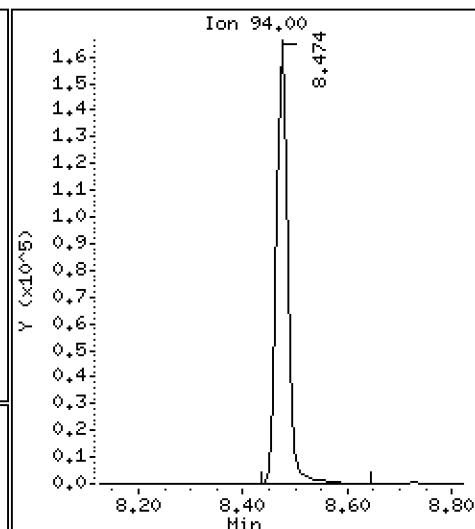
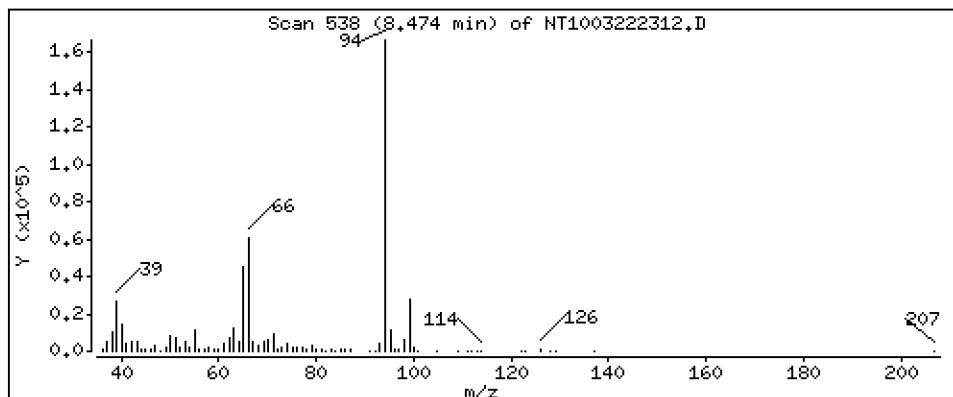
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 3,318 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

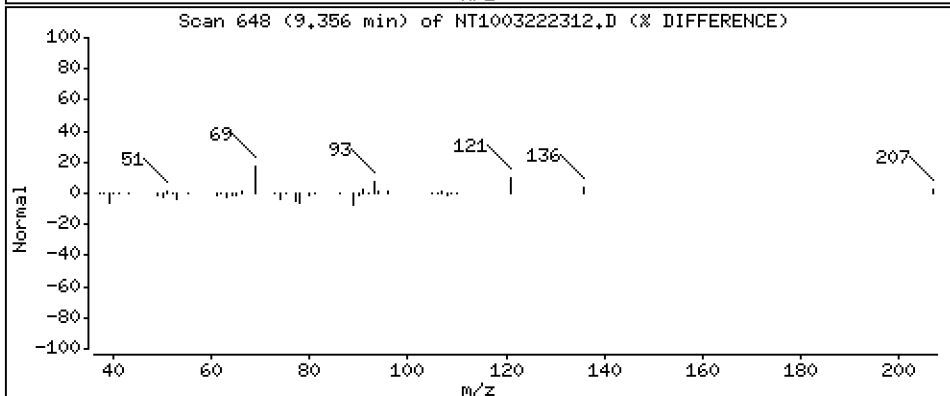
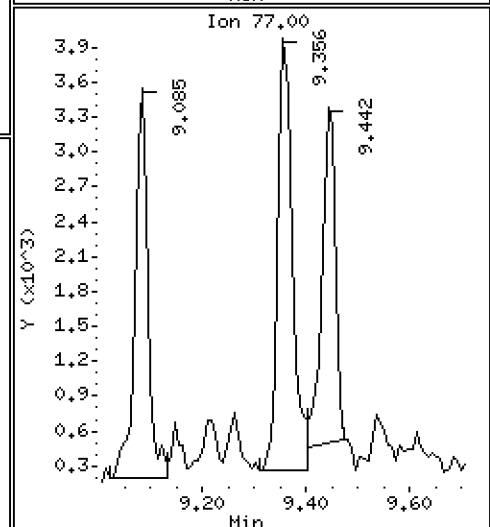
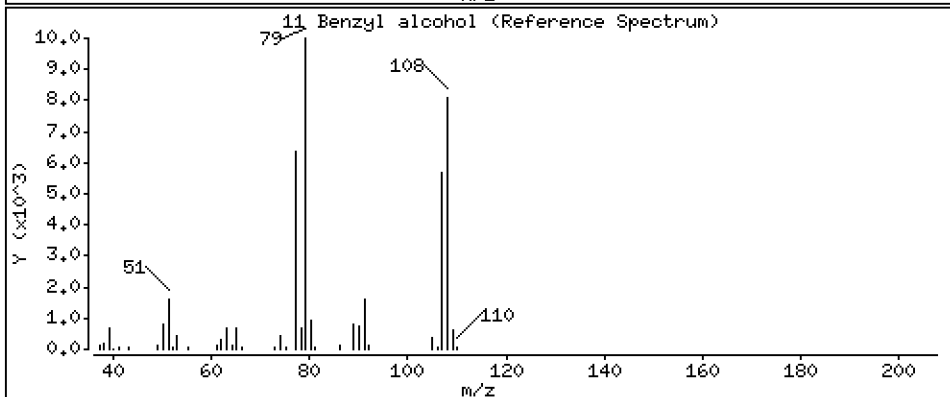
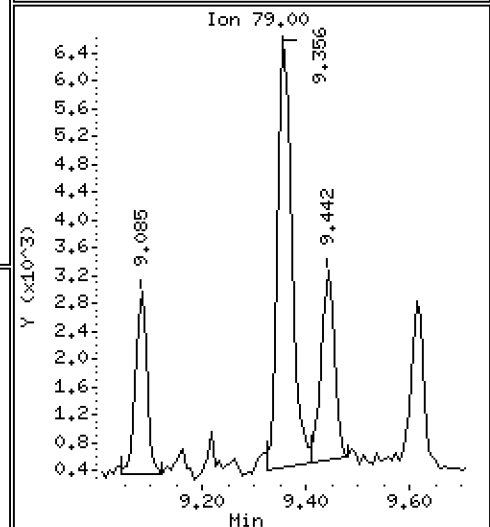
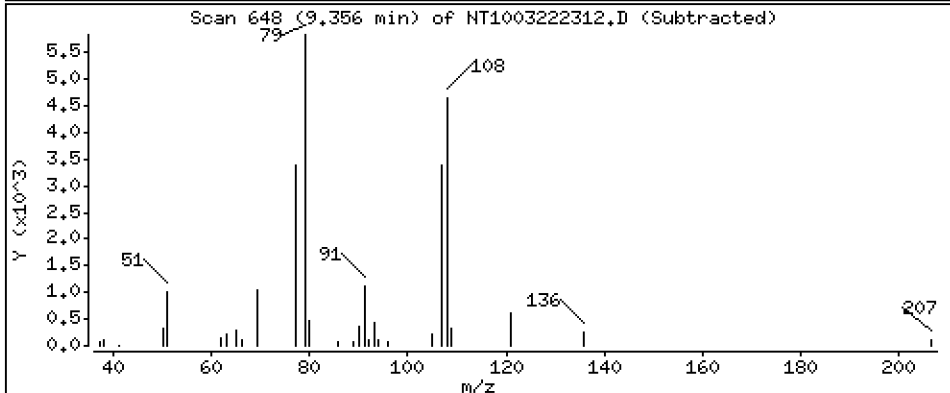
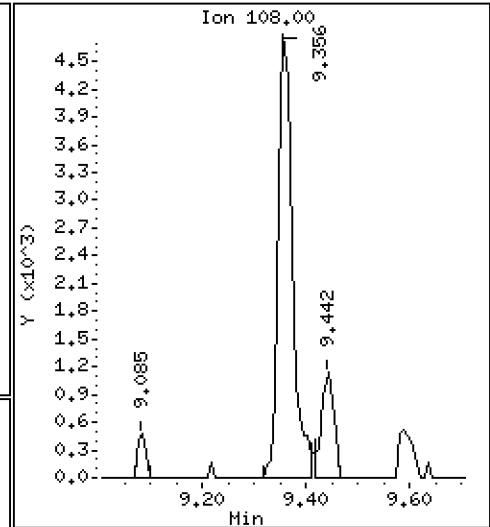
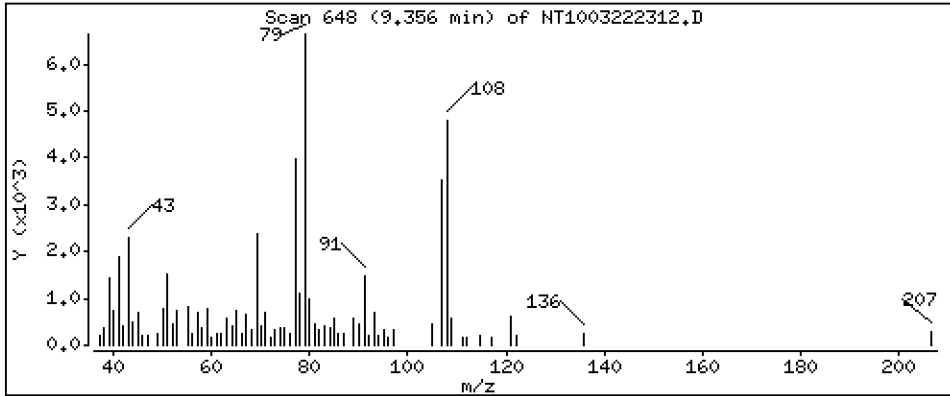
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.2613 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

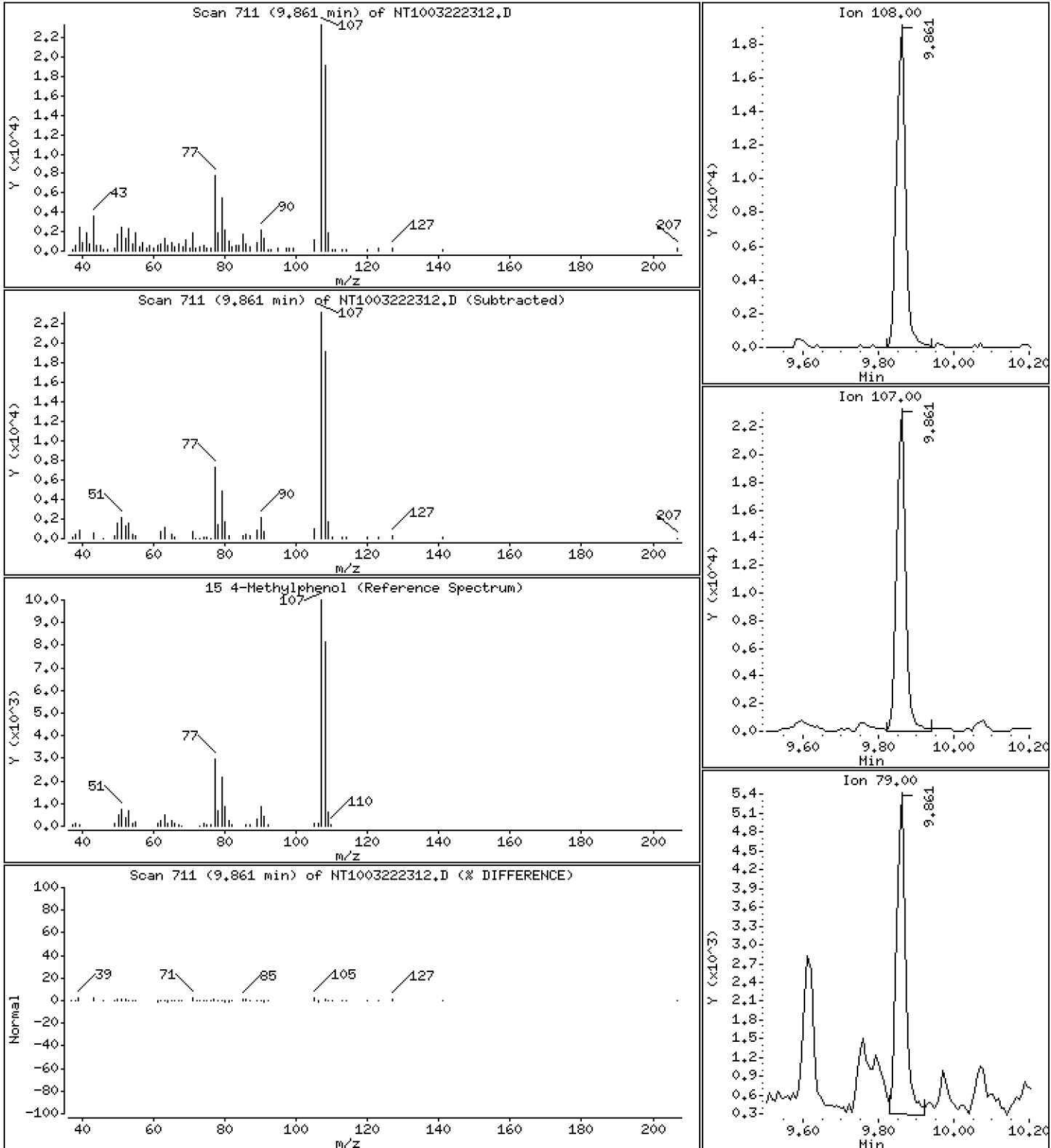
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.5498 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

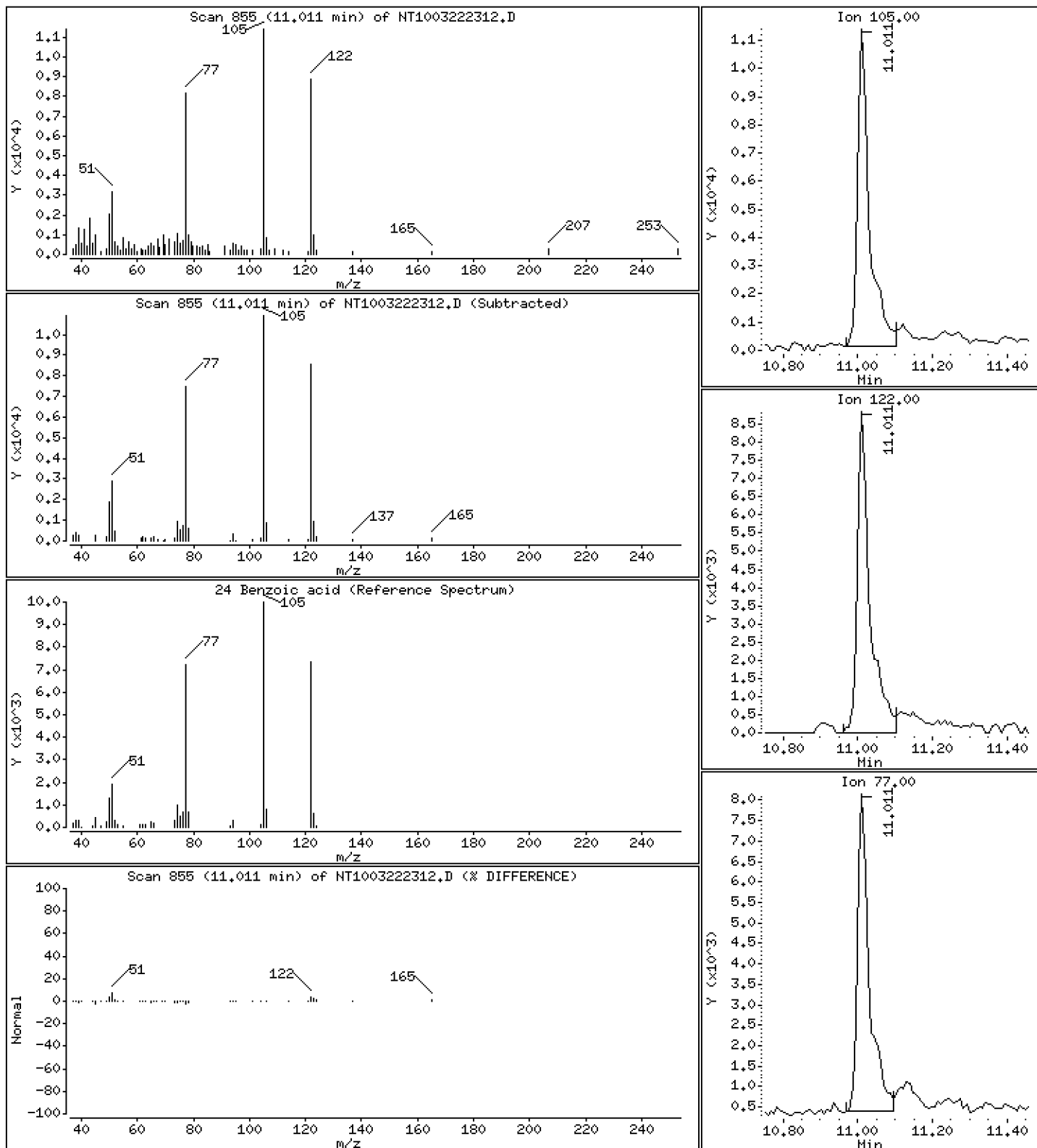
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.7874 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

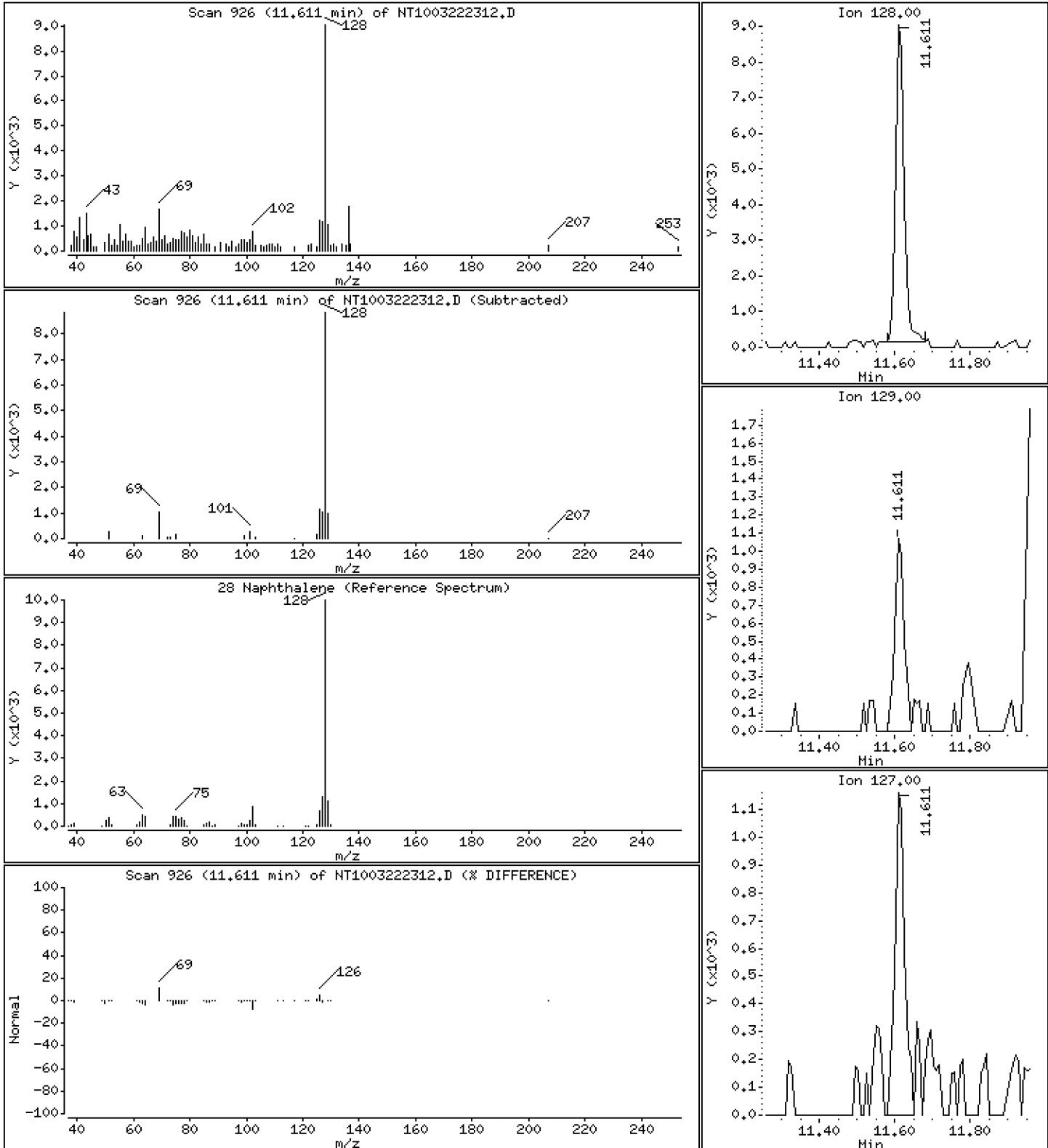
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,08351 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

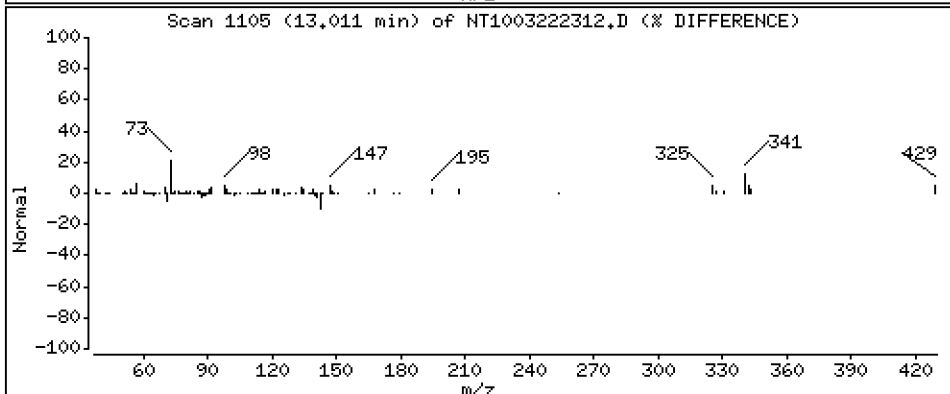
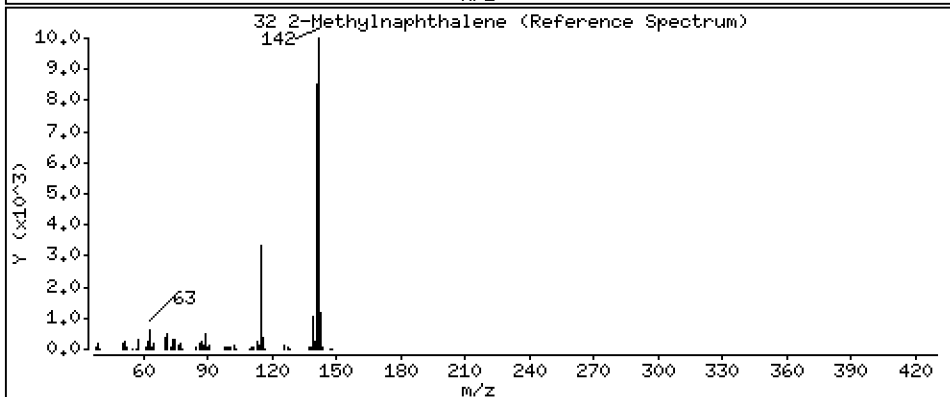
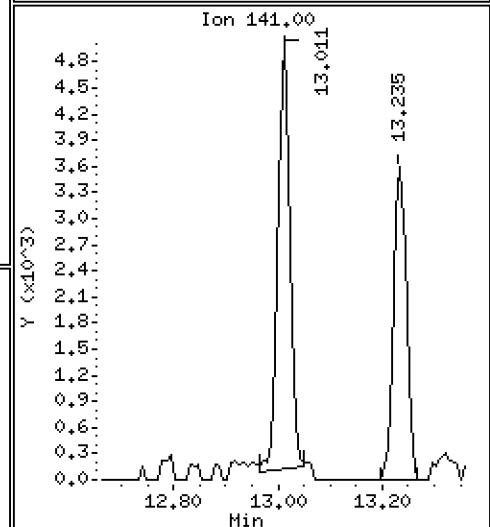
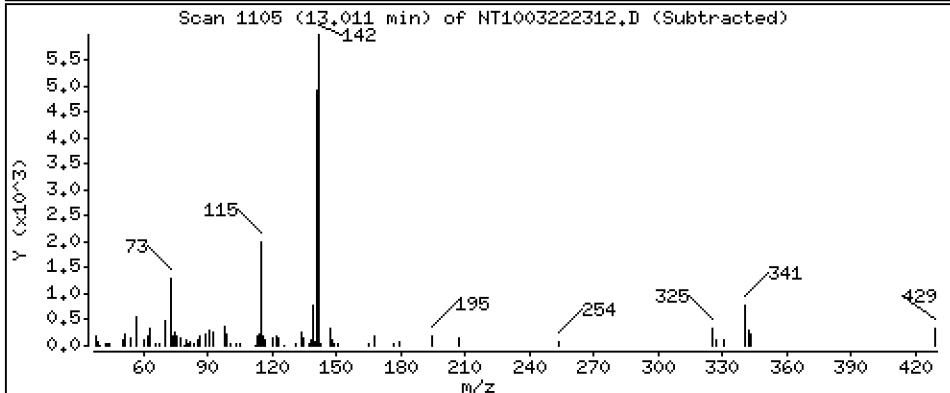
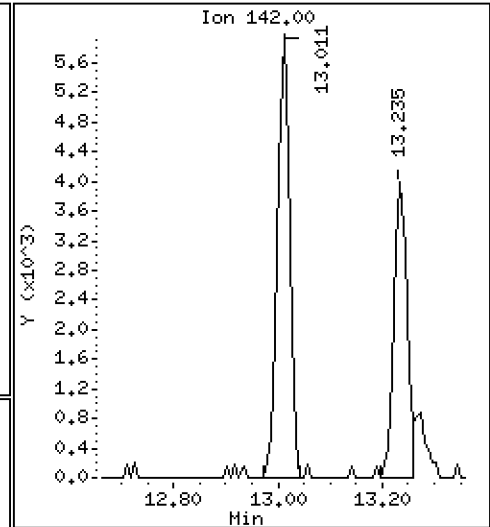
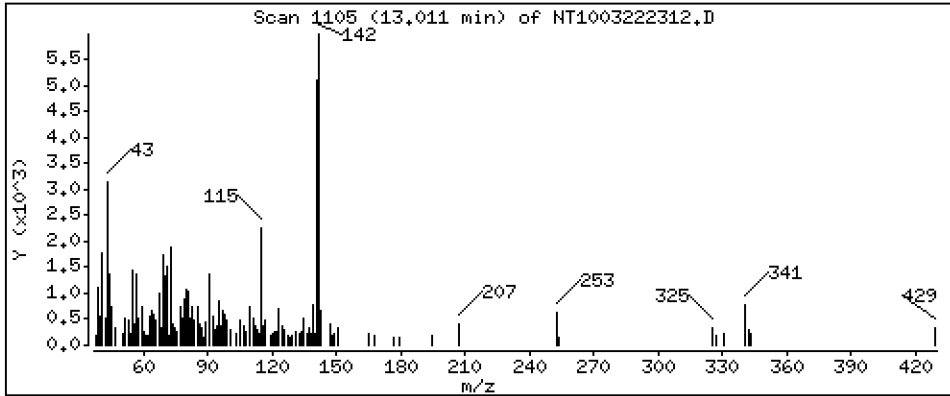
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,07624 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

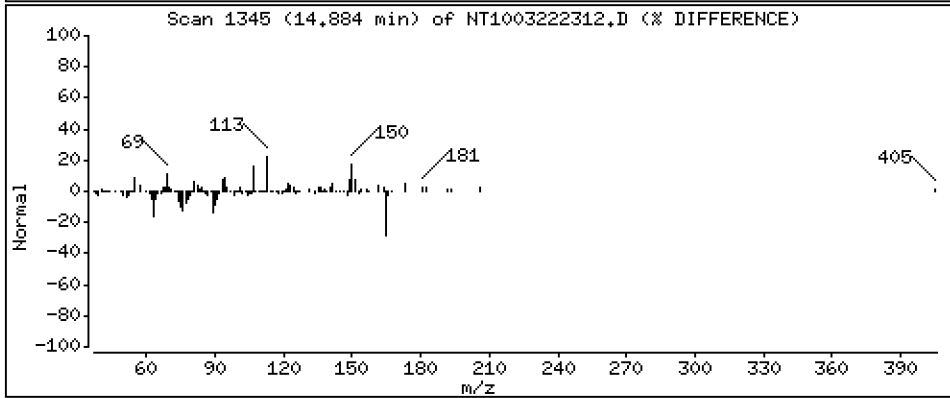
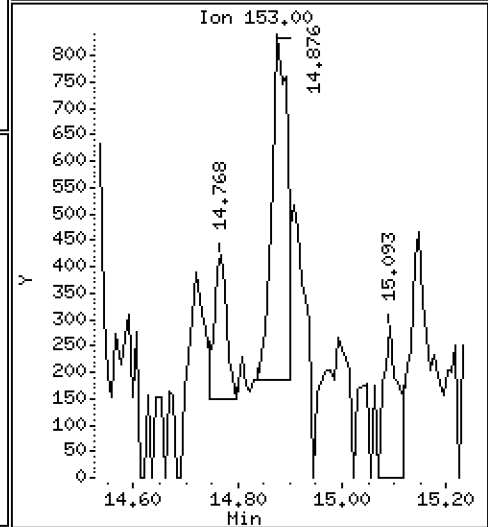
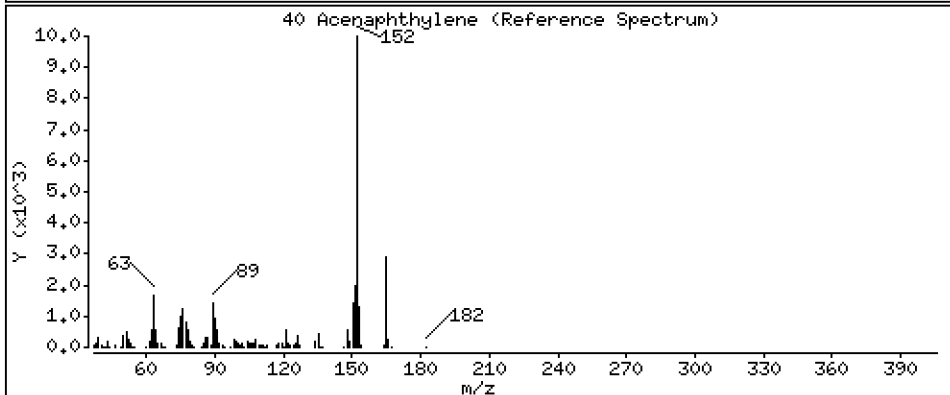
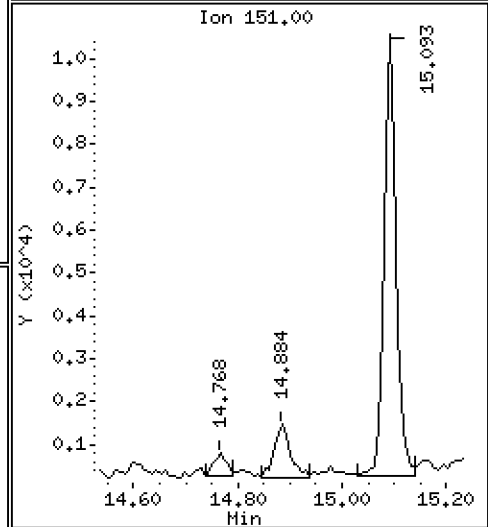
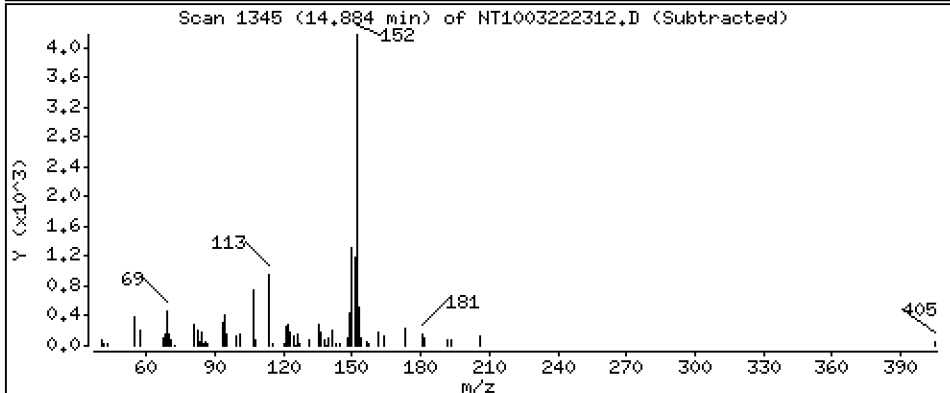
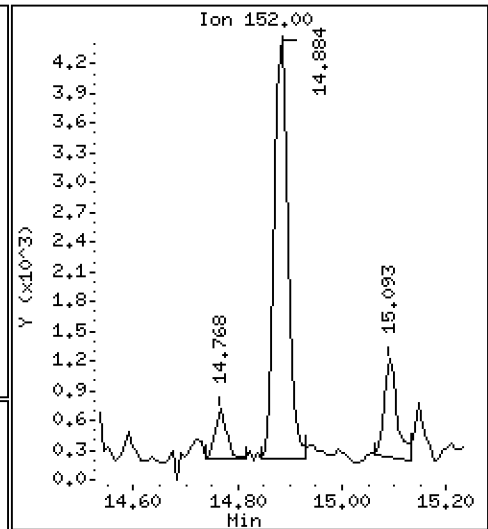
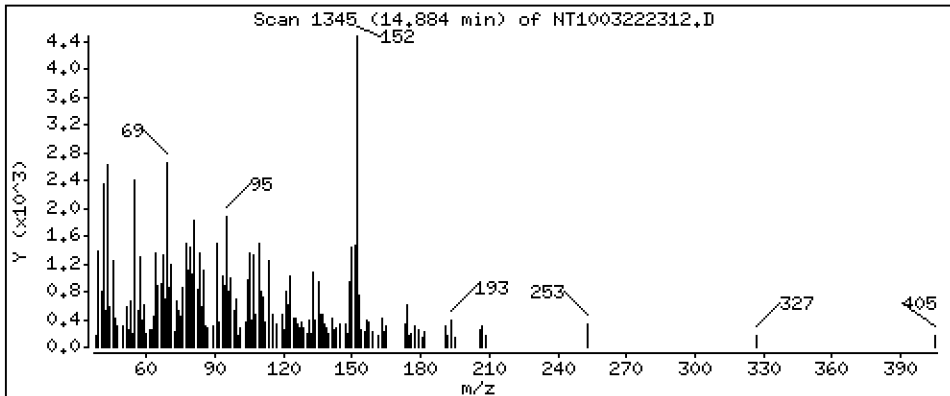
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 0.04325 ug/mL





Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

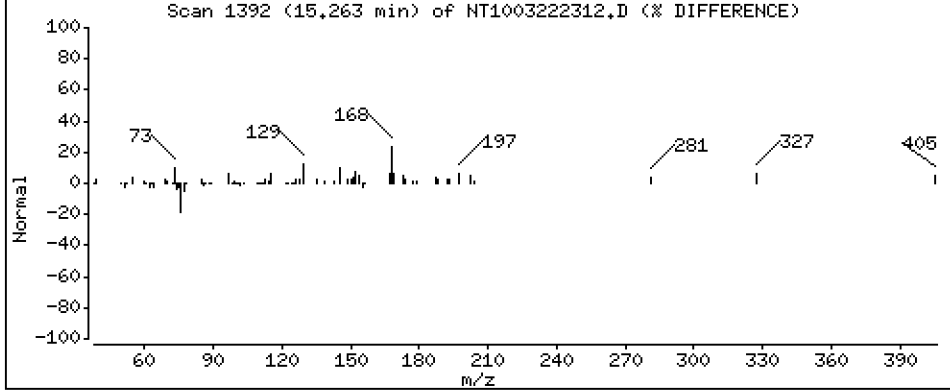
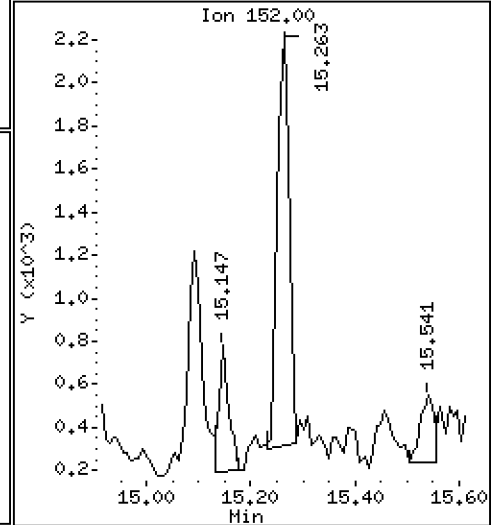
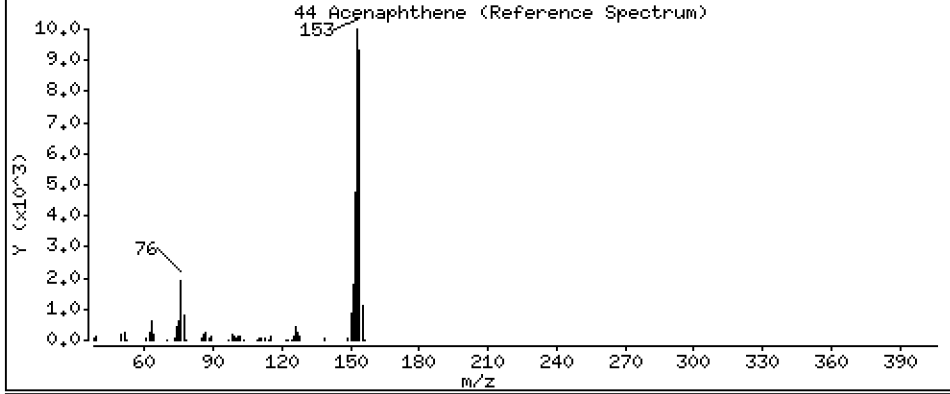
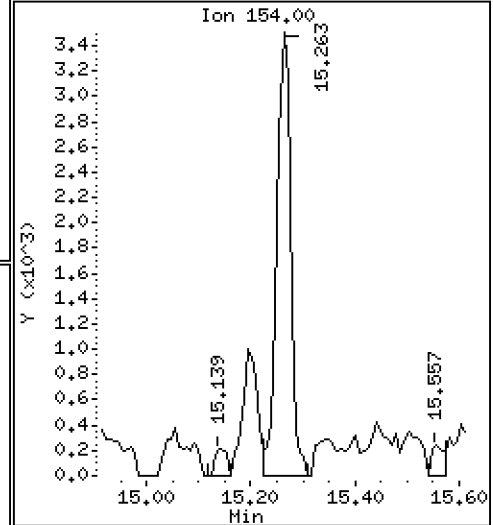
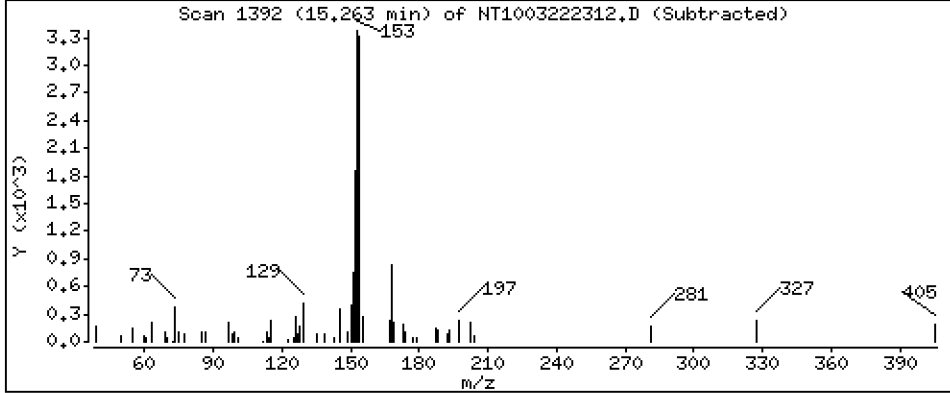
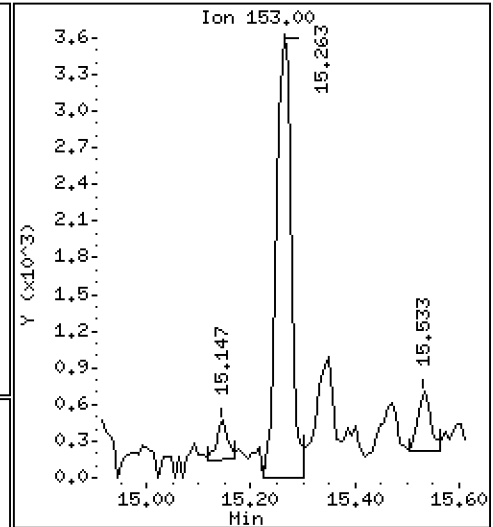
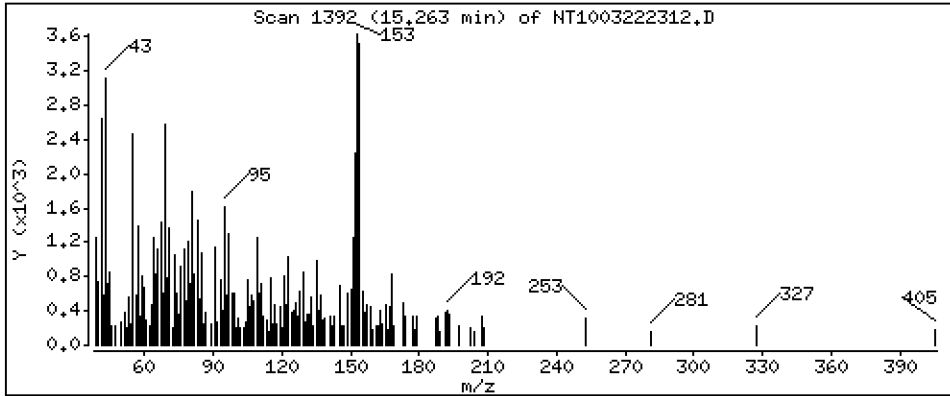
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,06446 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

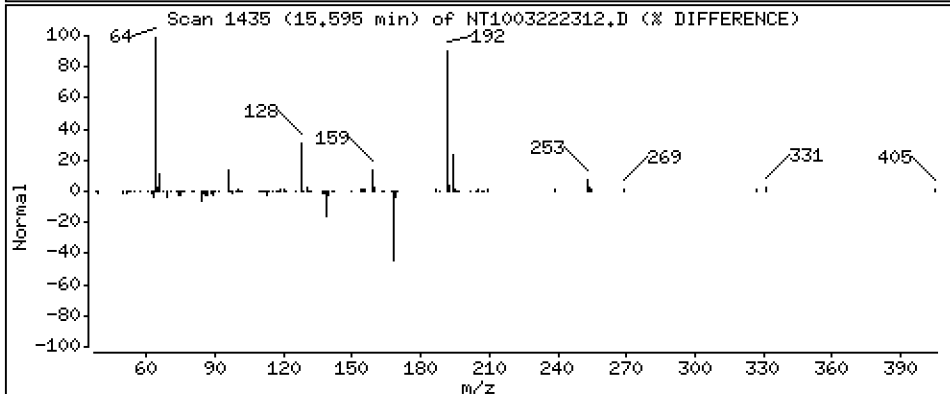
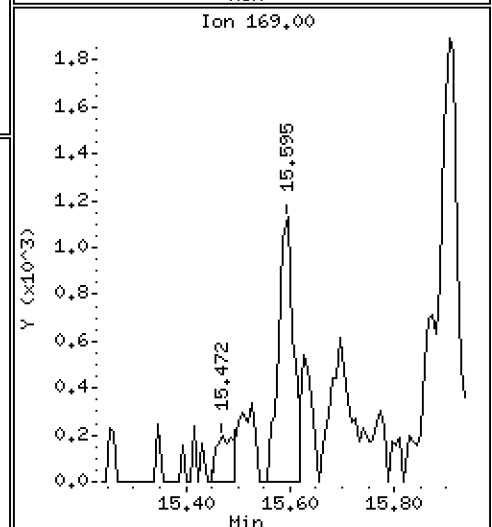
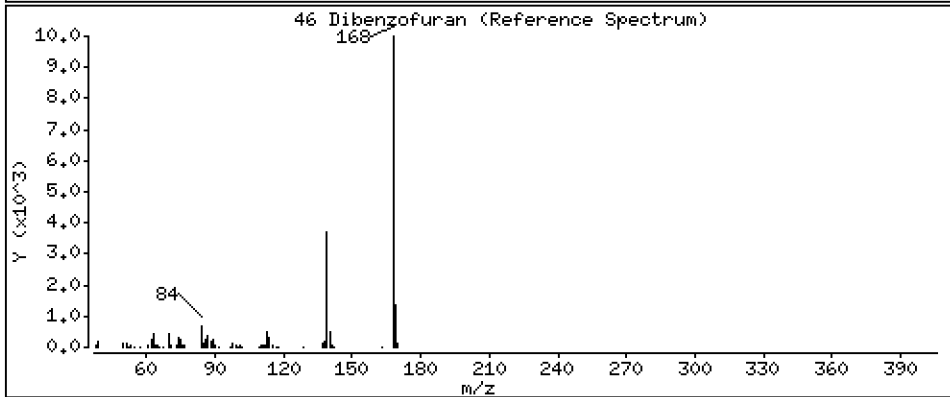
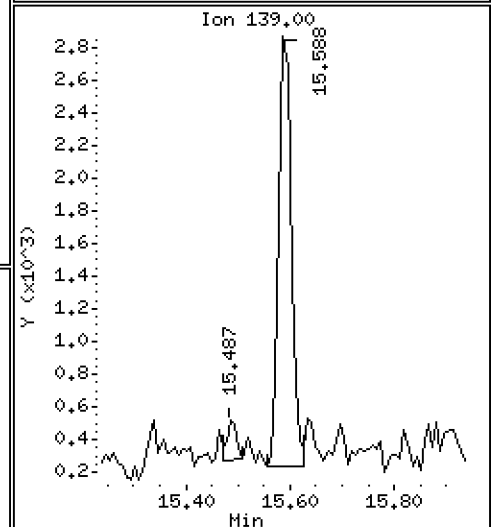
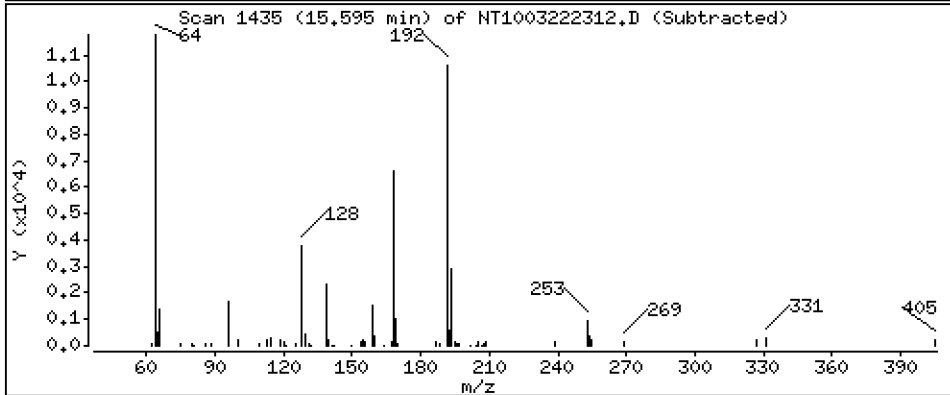
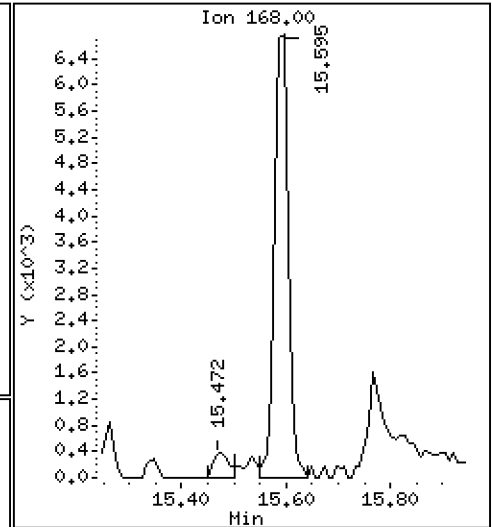
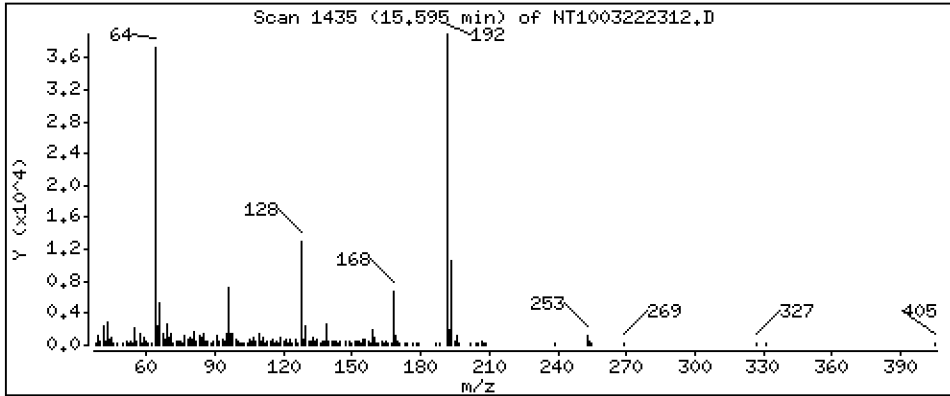
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,07597 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

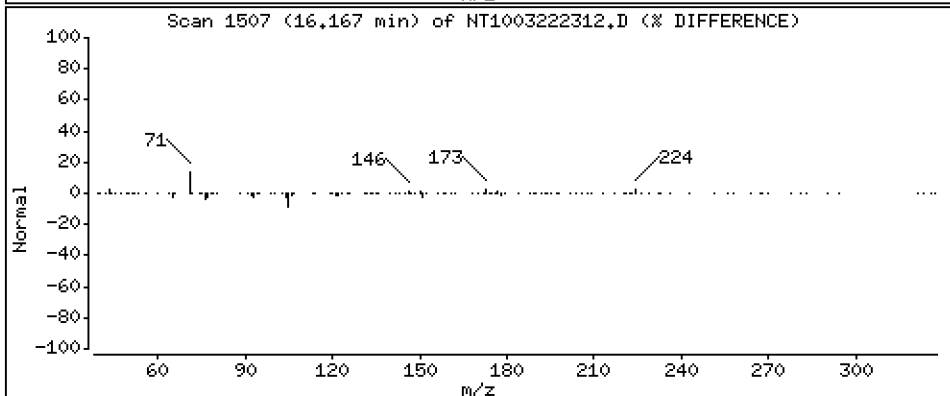
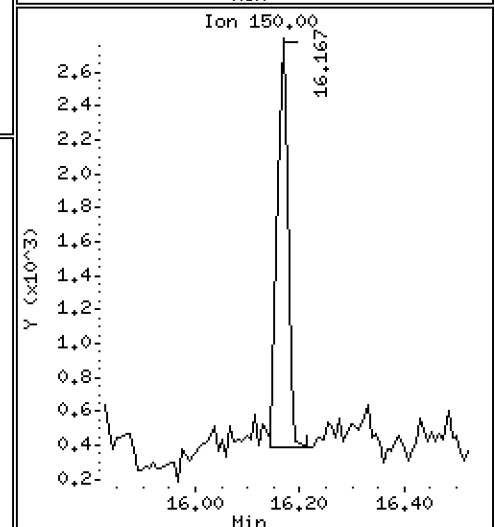
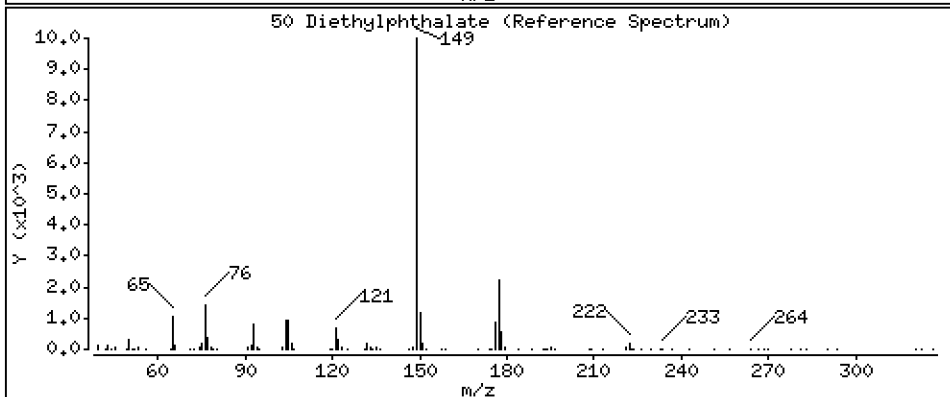
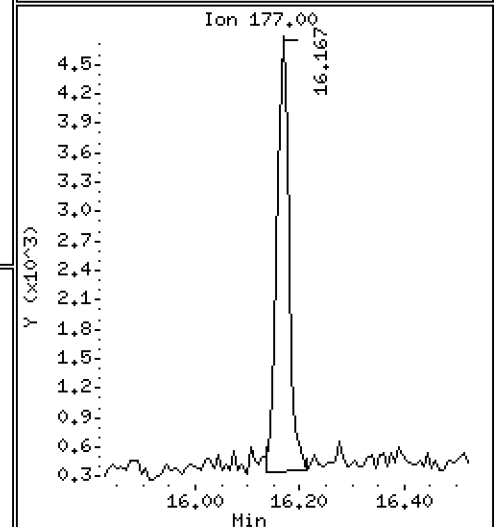
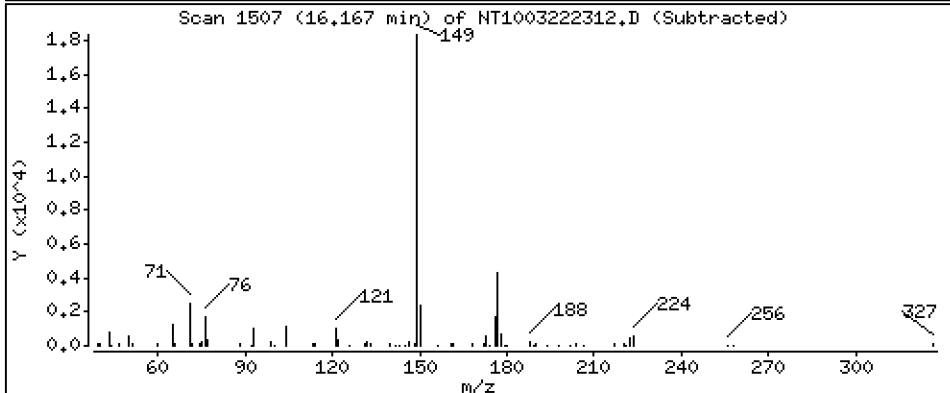
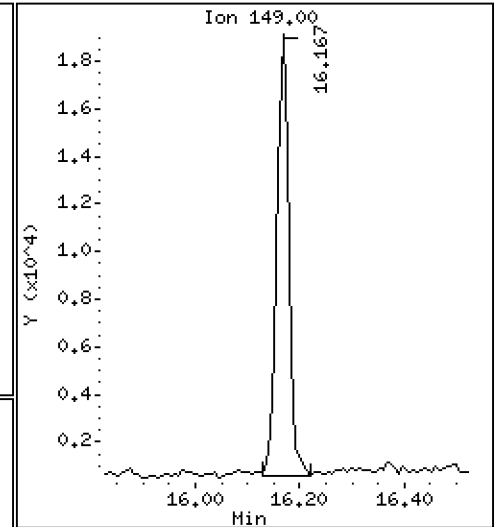
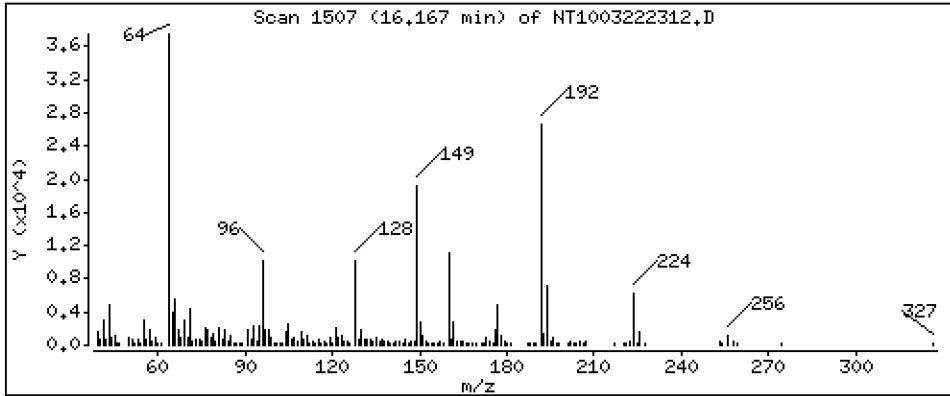
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 0.3019 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

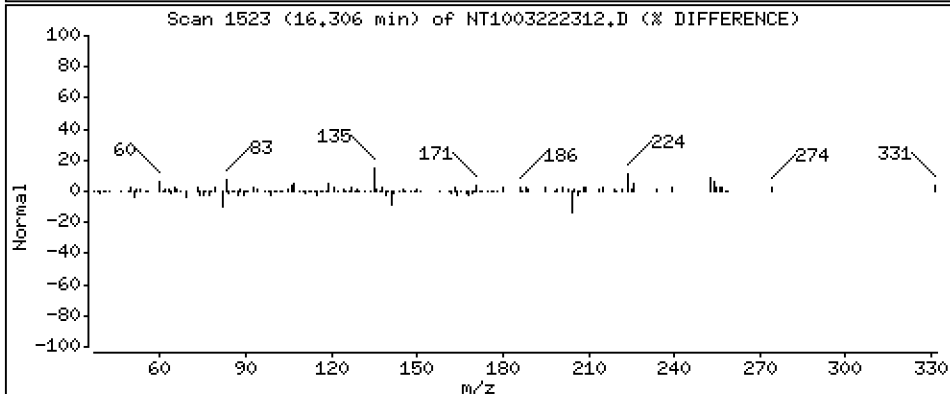
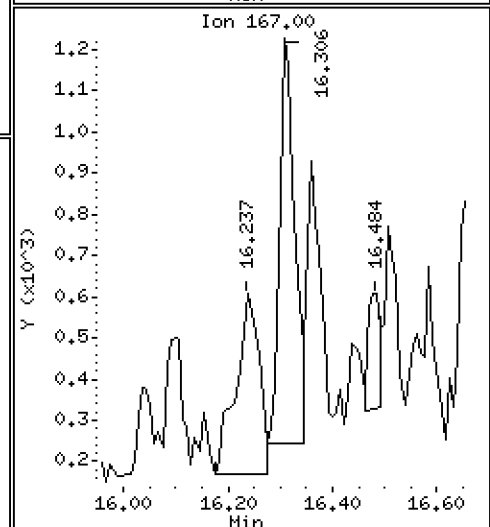
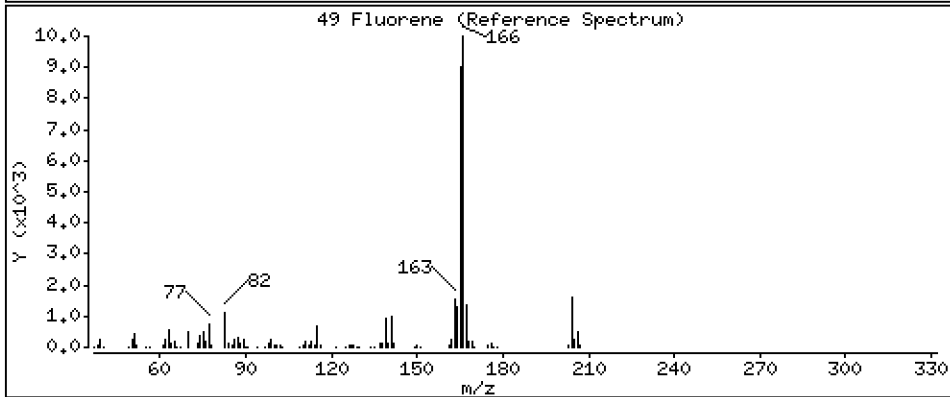
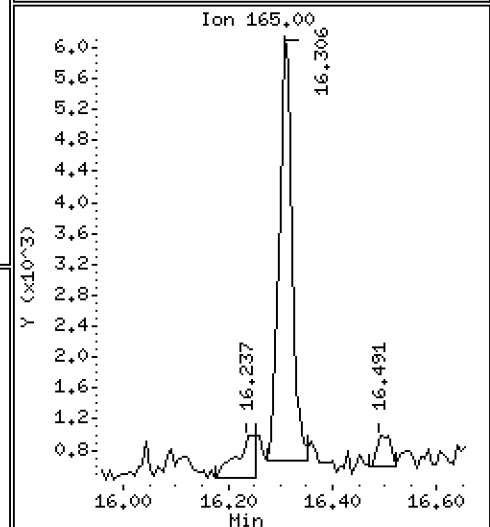
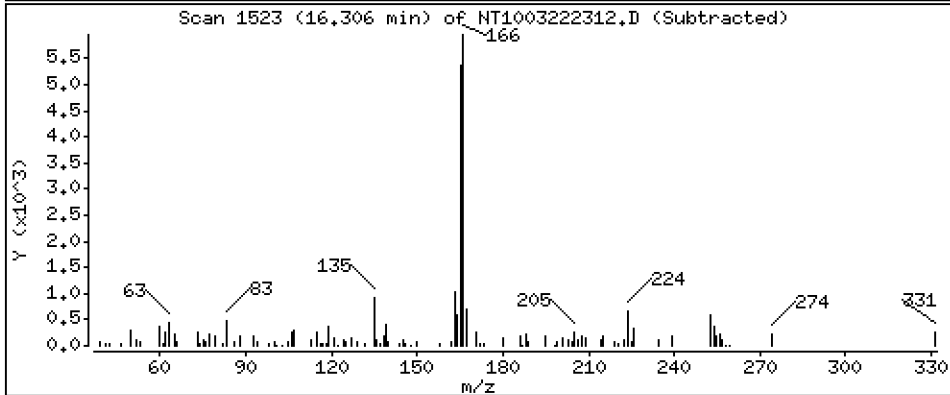
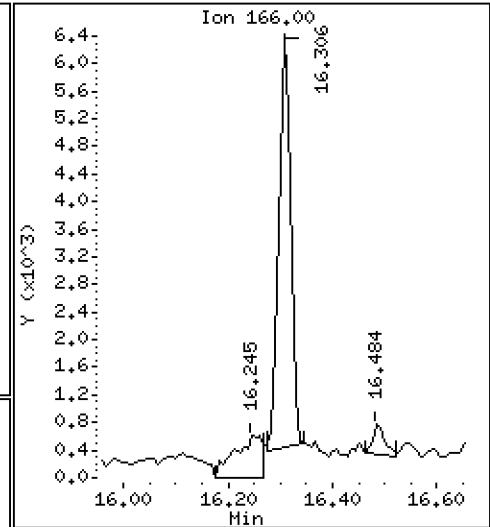
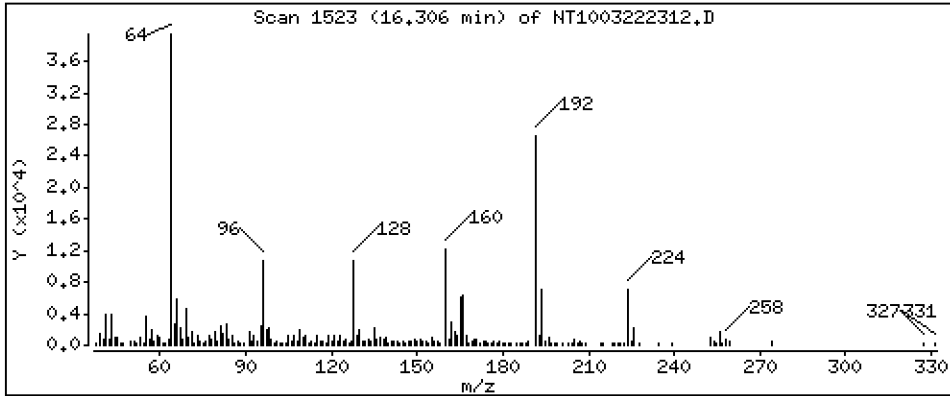
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 0.07561 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

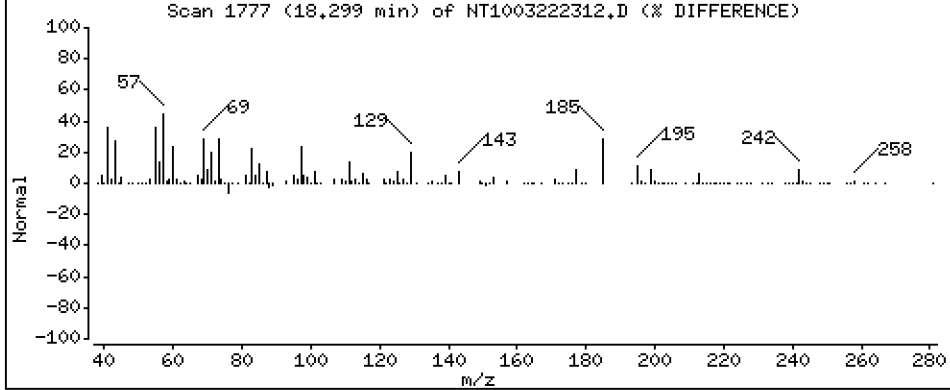
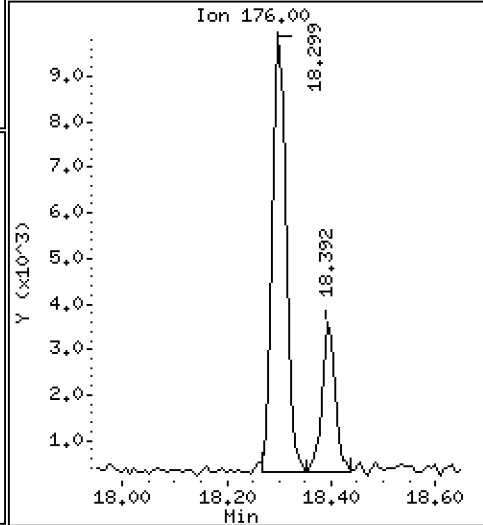
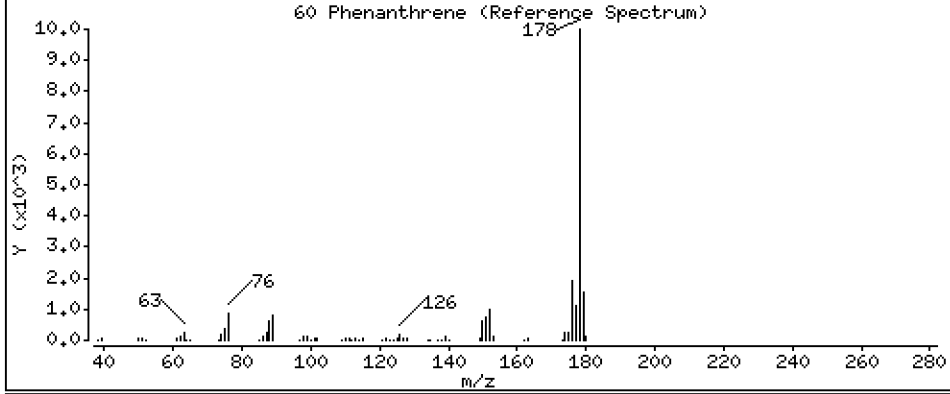
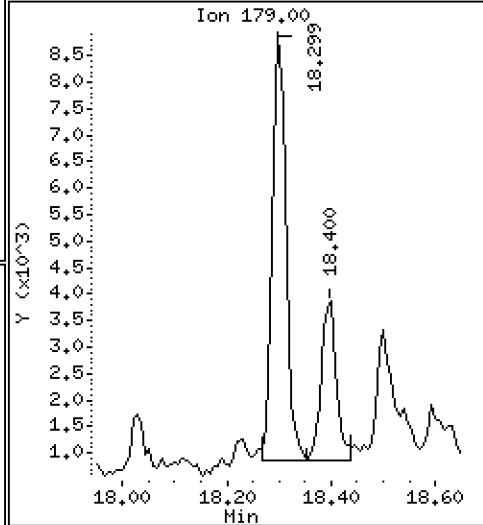
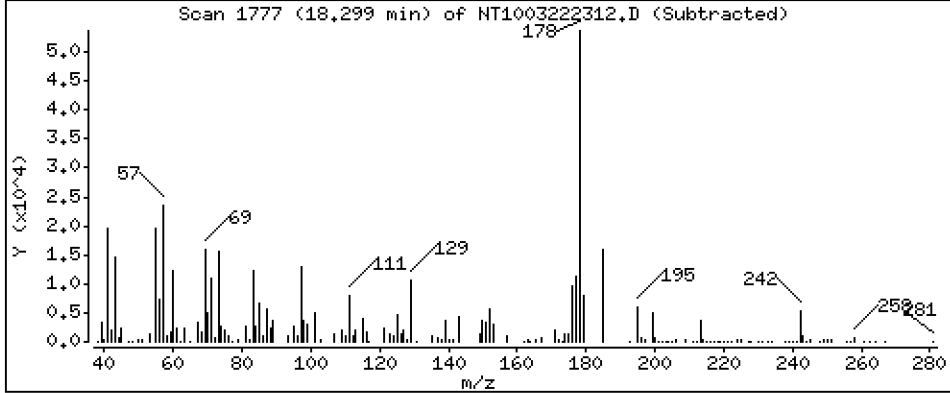
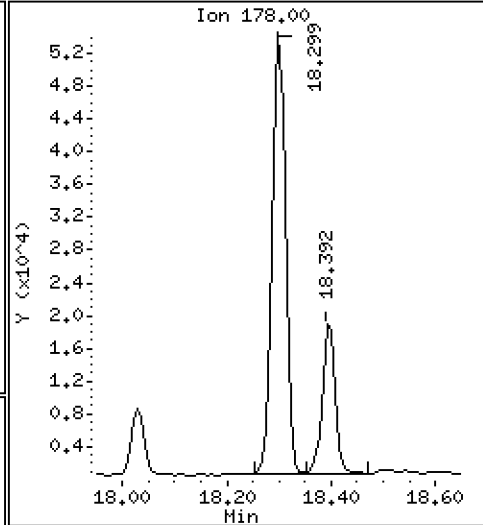
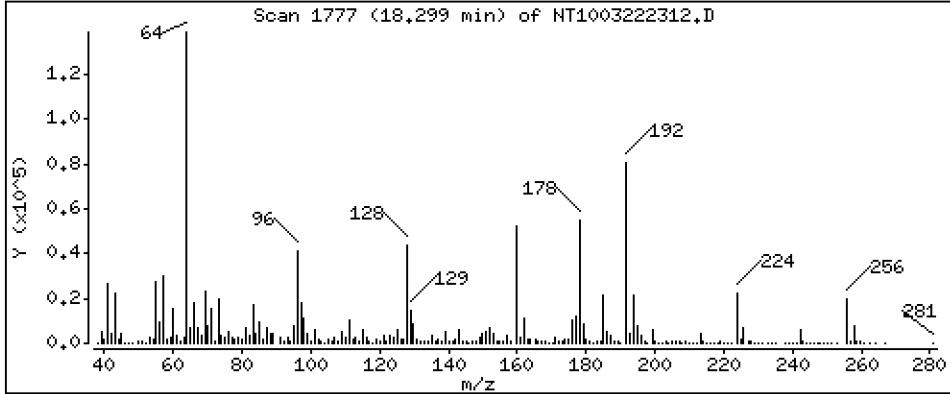
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 0.5159 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

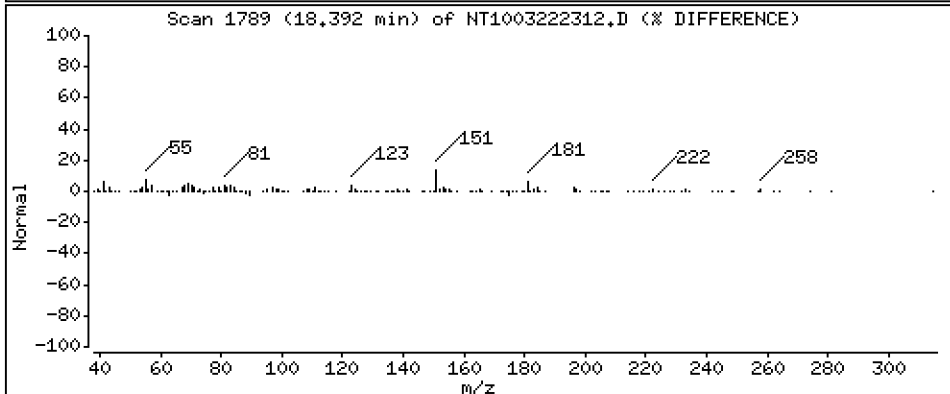
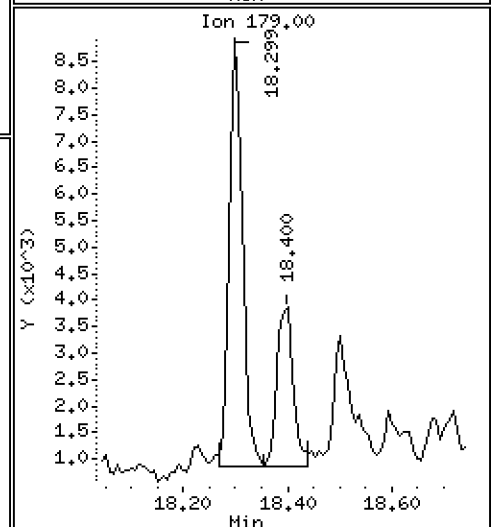
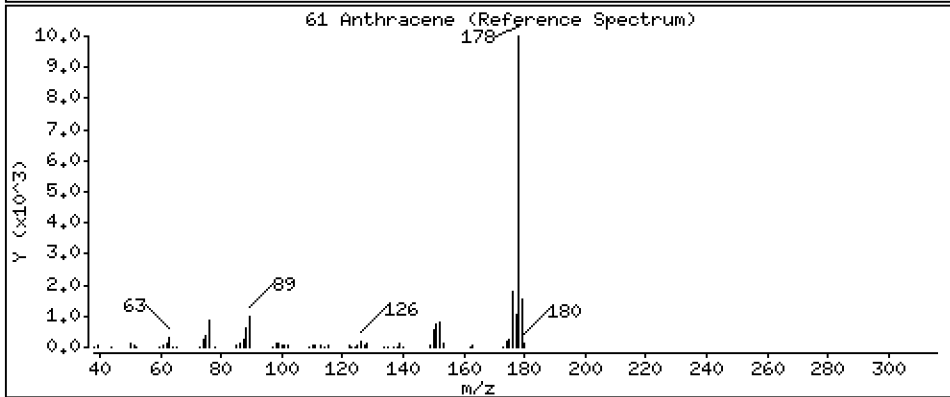
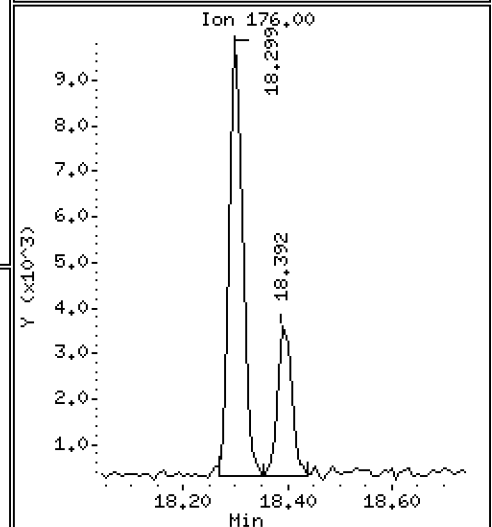
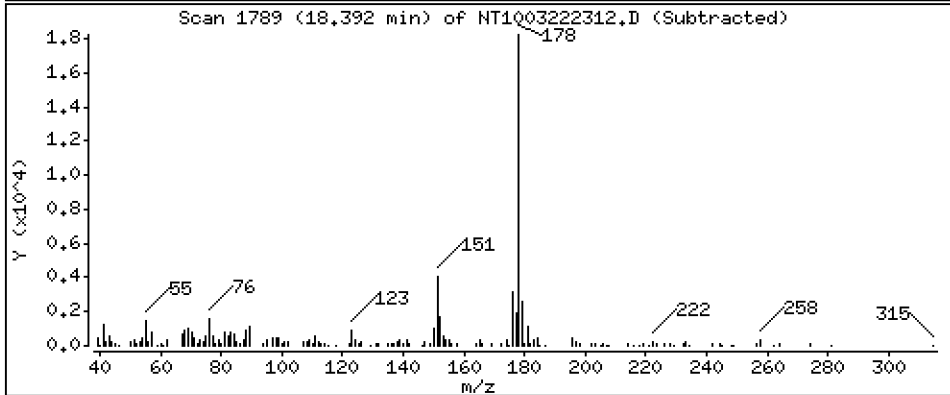
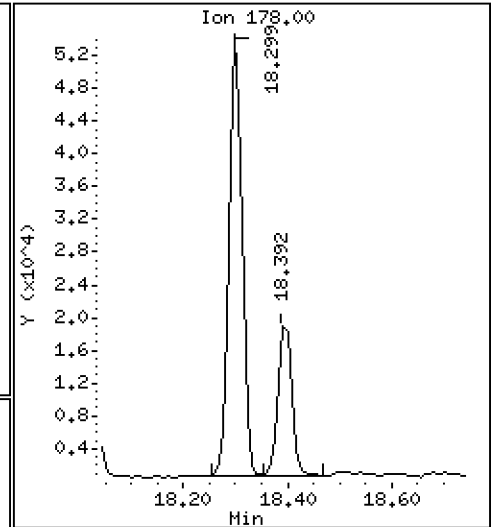
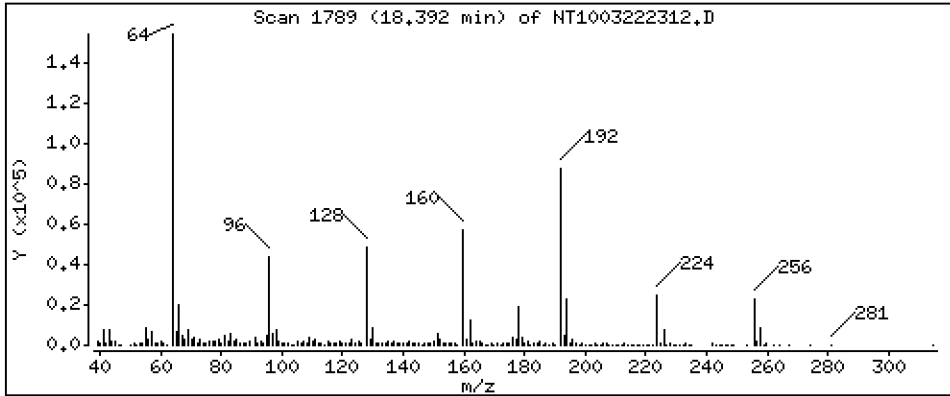
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,1926 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

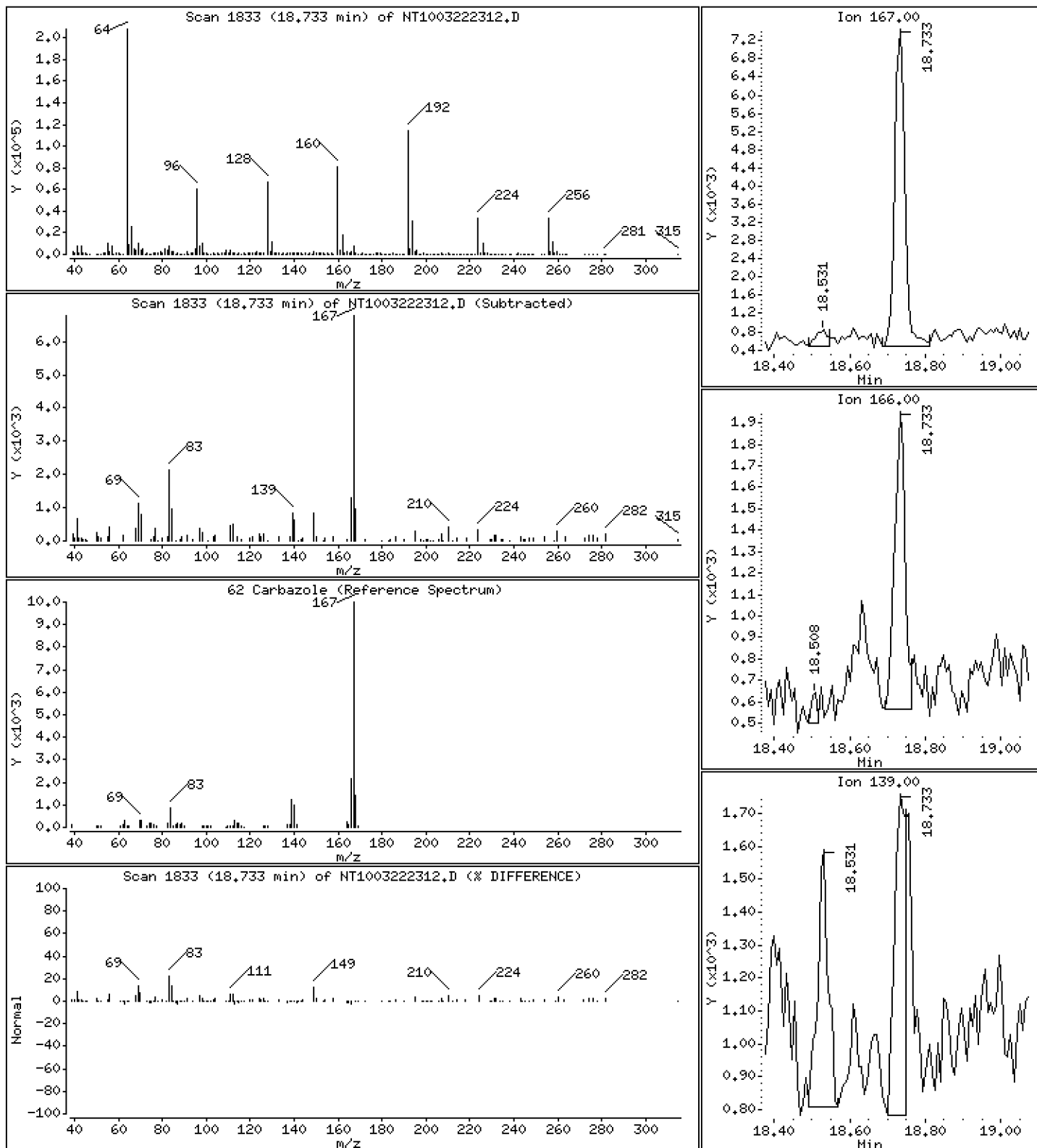
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

62 Carbazole

Concentration: 0.08052 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

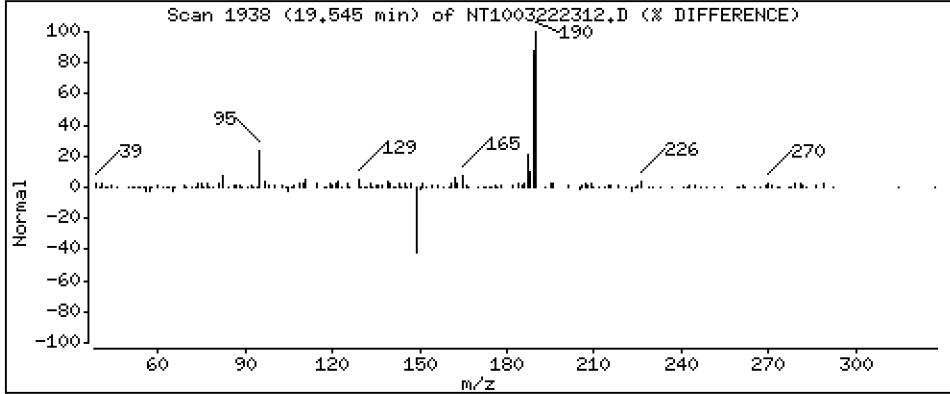
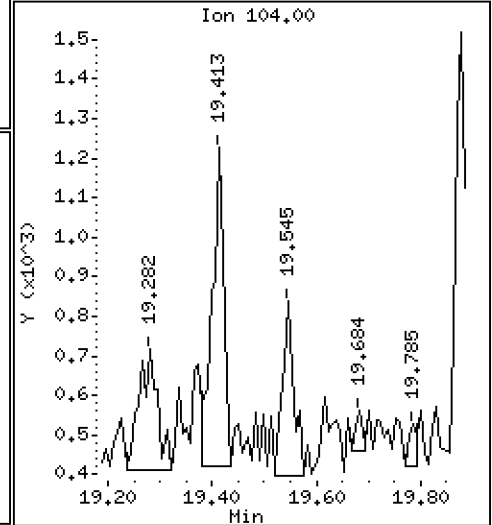
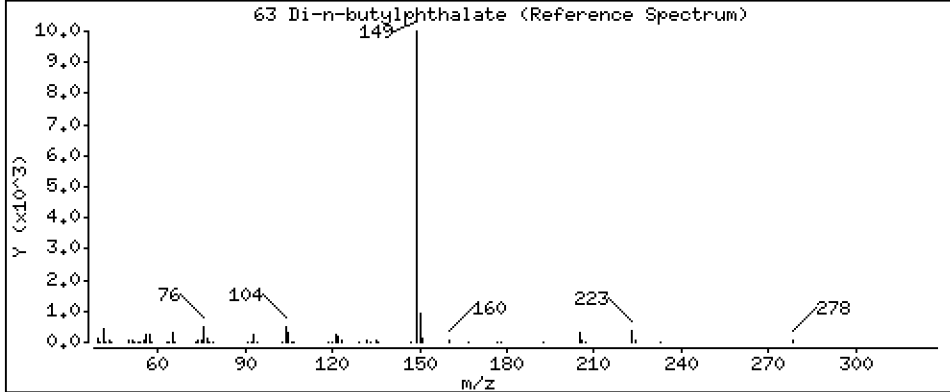
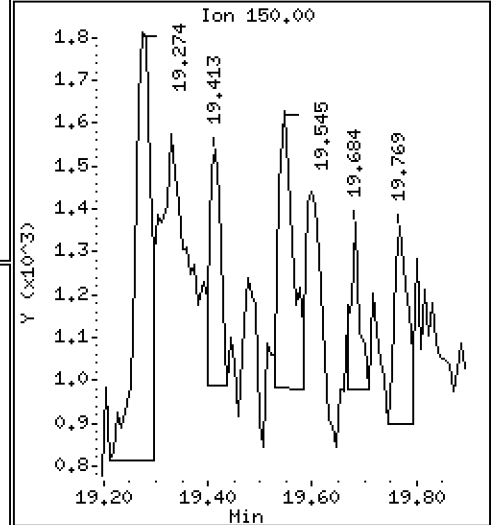
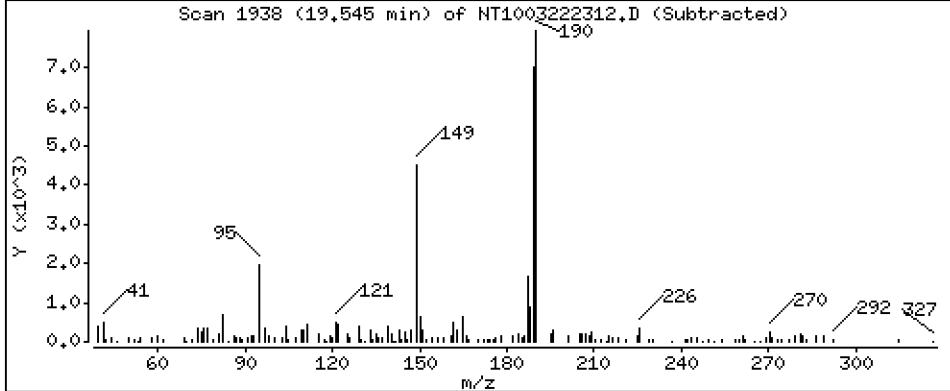
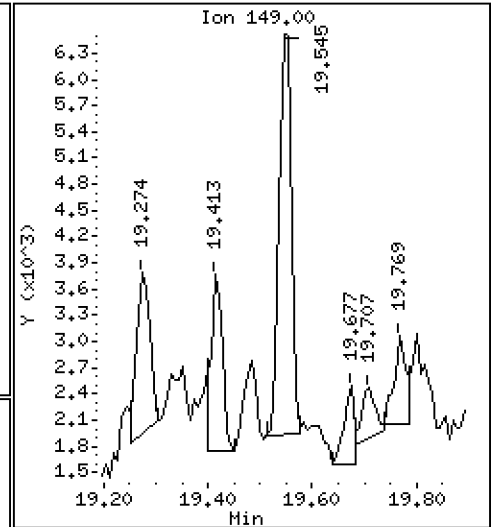
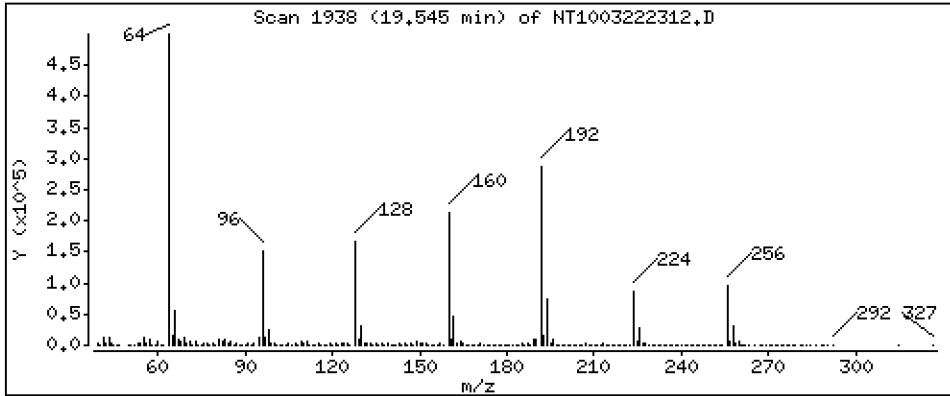
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 0.03528 ug/mL





Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

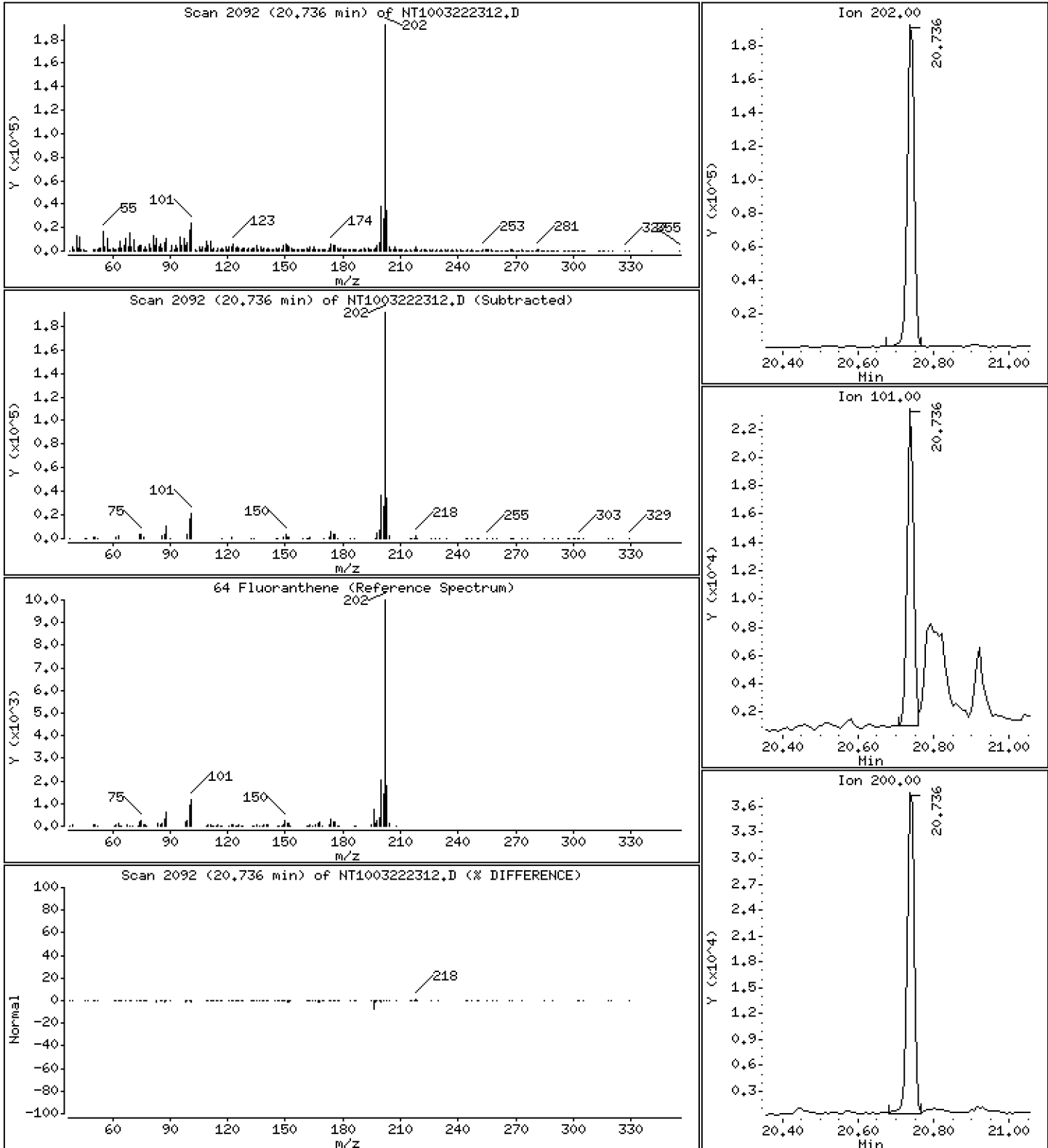
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 1,089 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

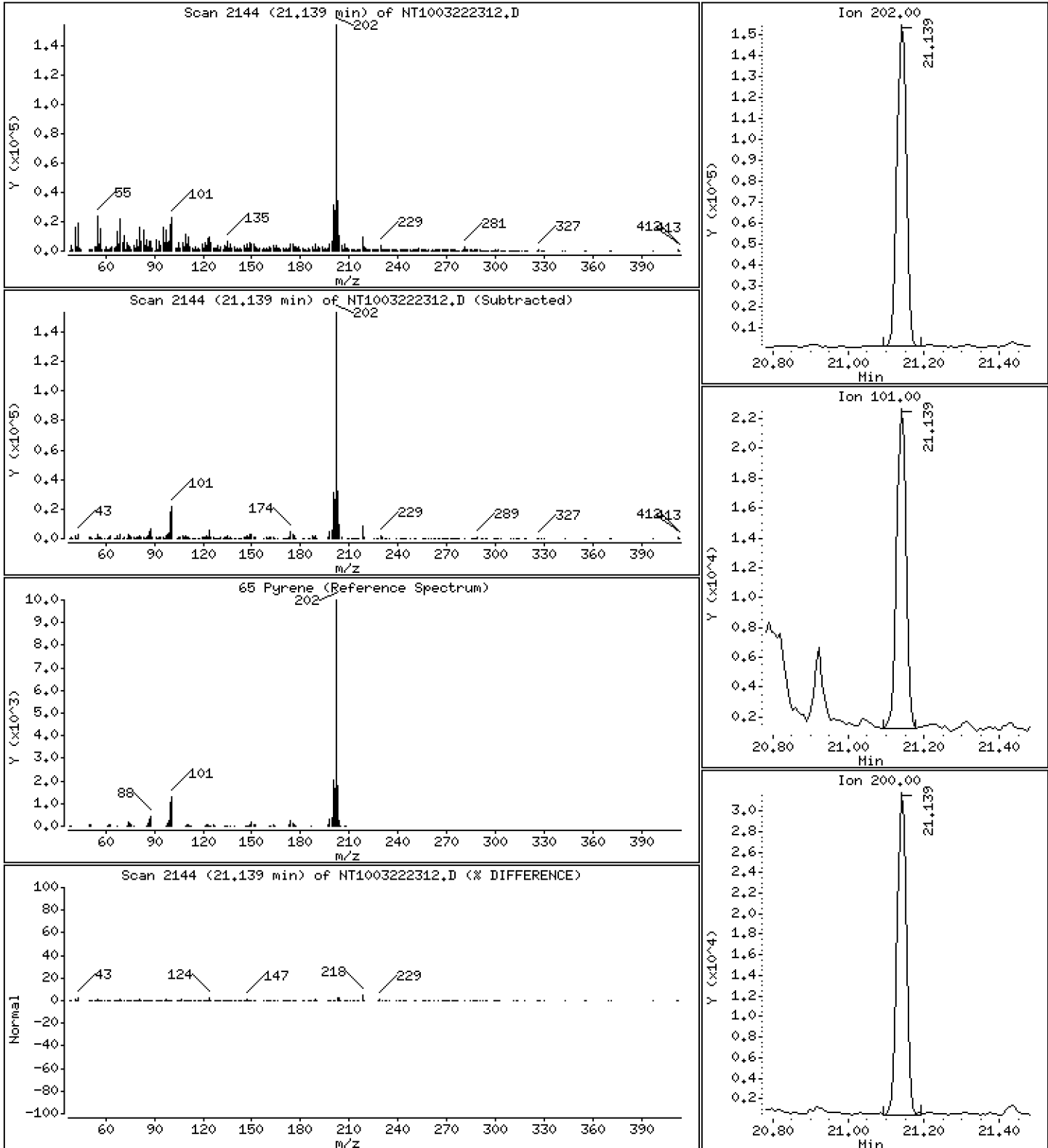
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 1.055 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

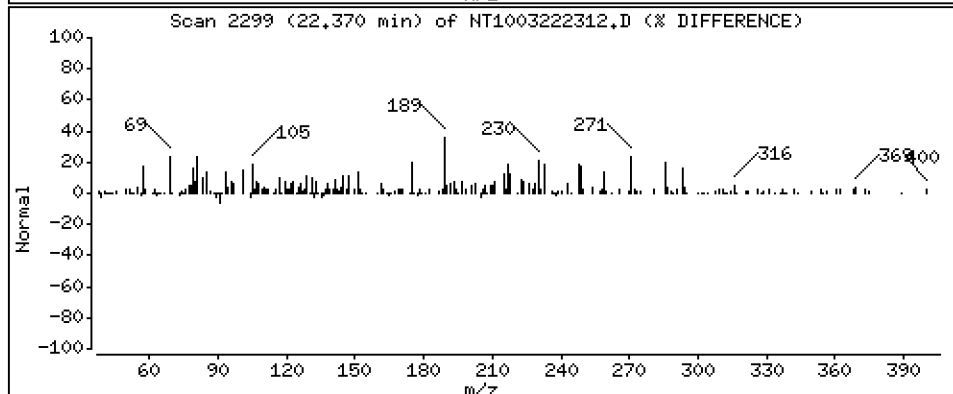
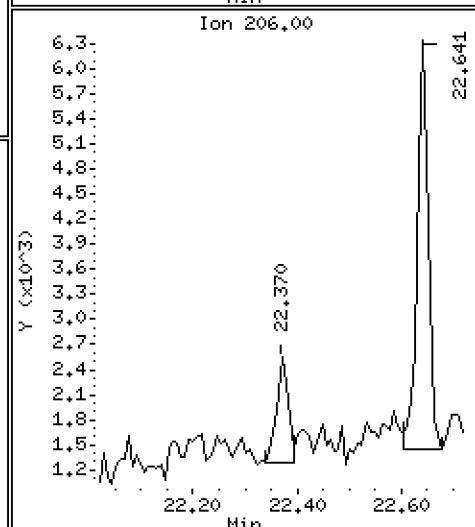
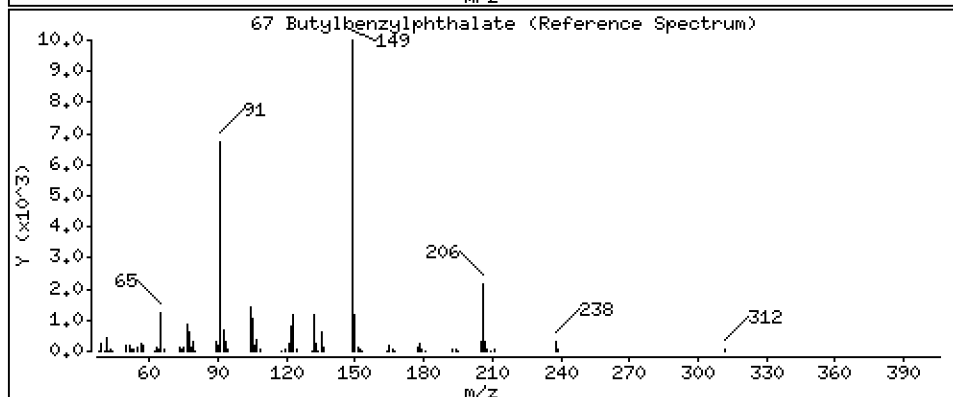
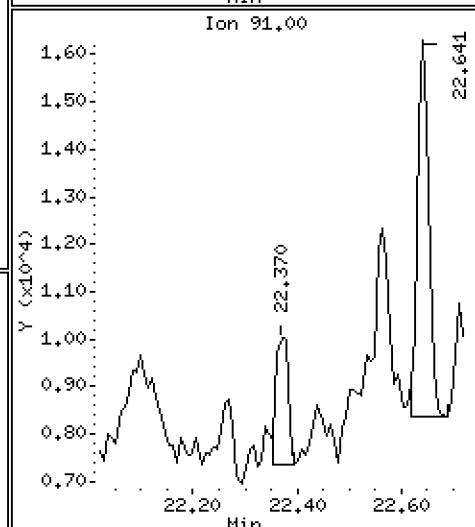
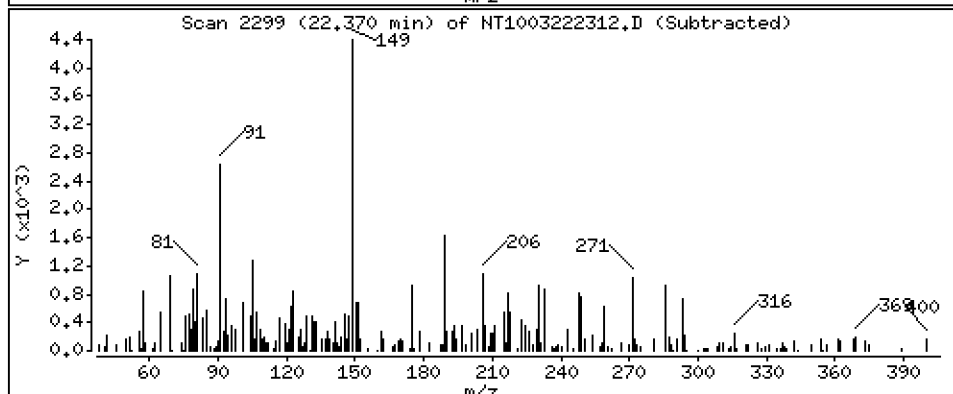
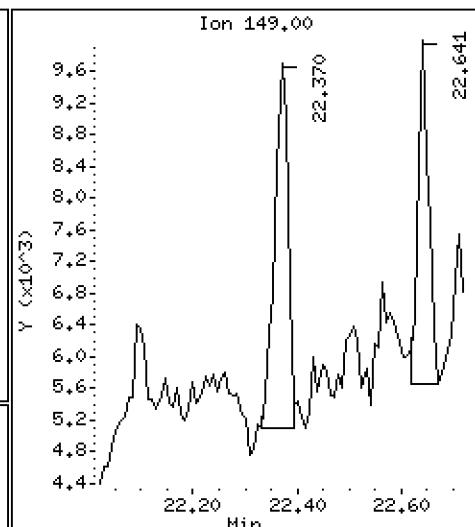
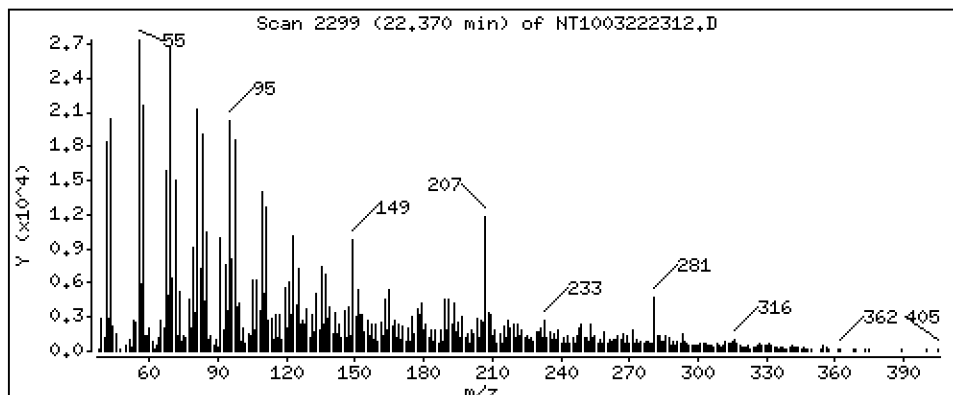
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.09455 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

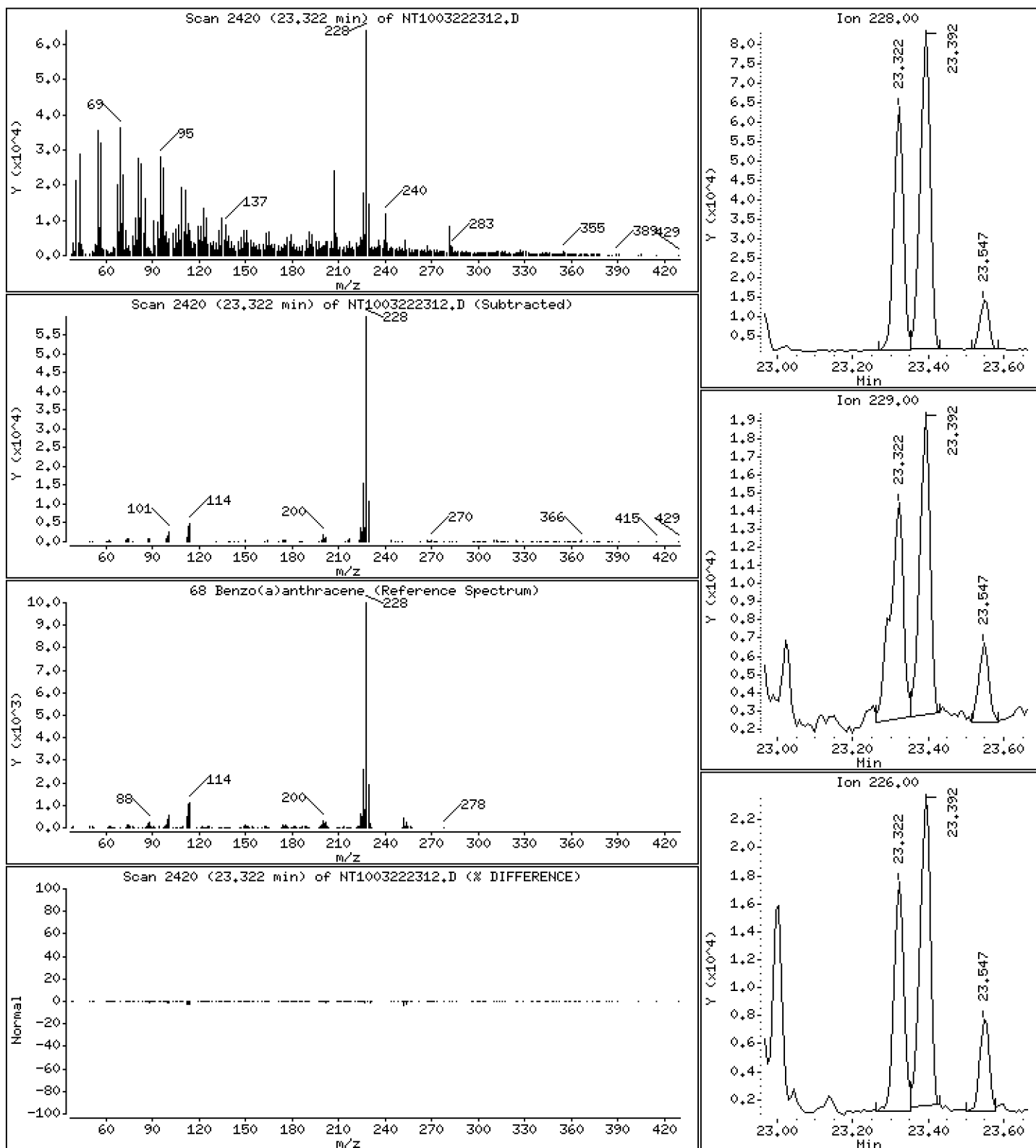
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,5248 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

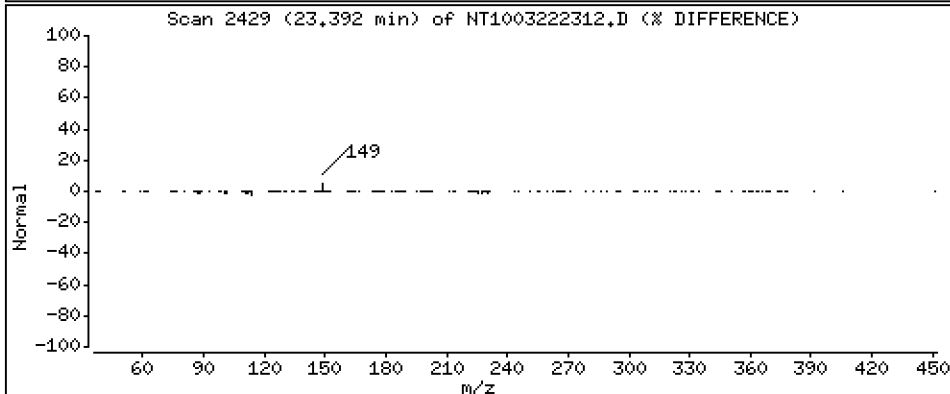
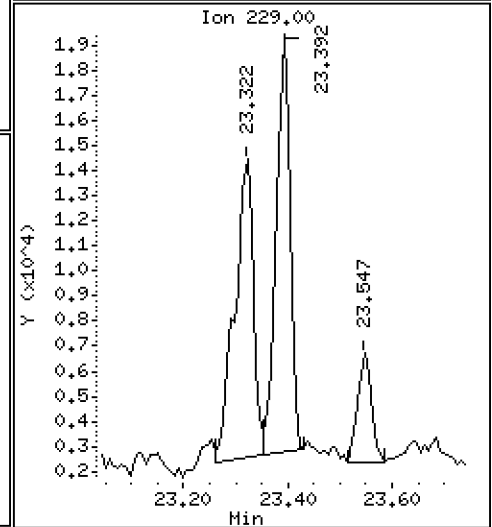
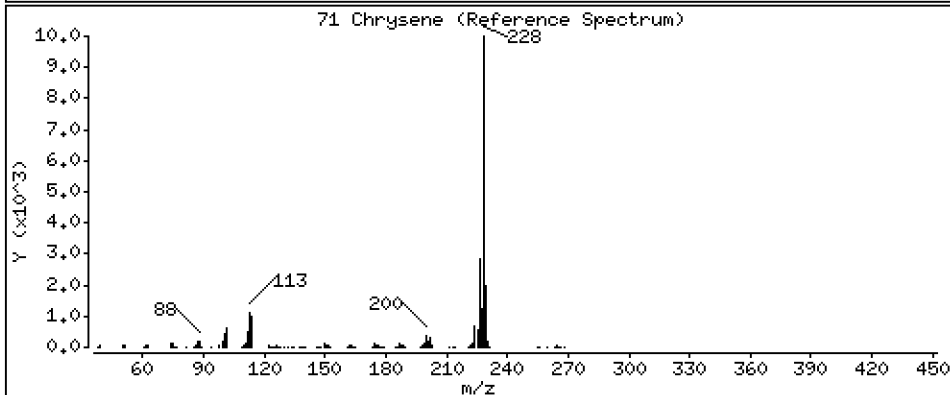
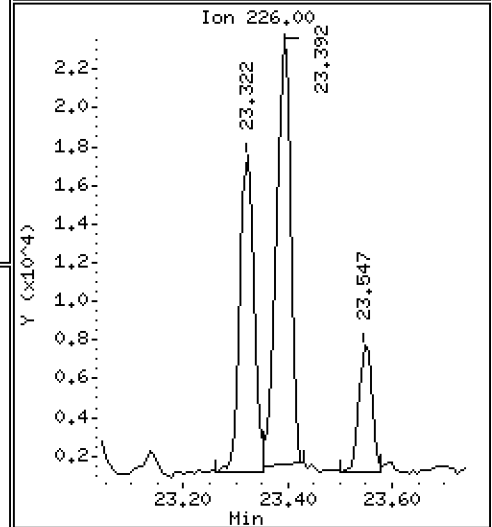
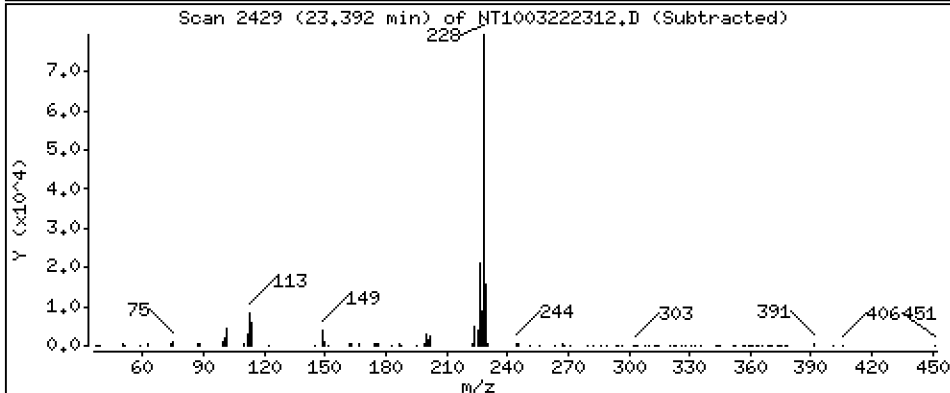
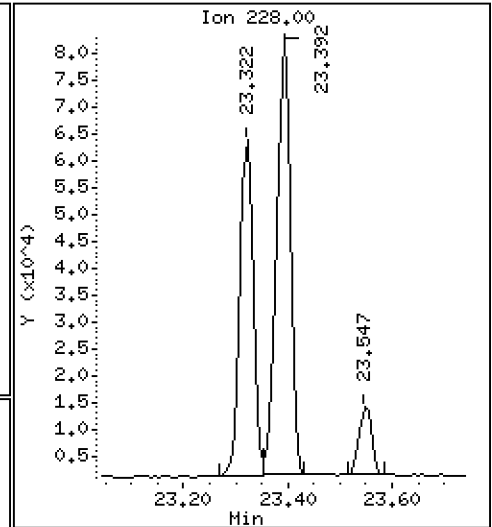
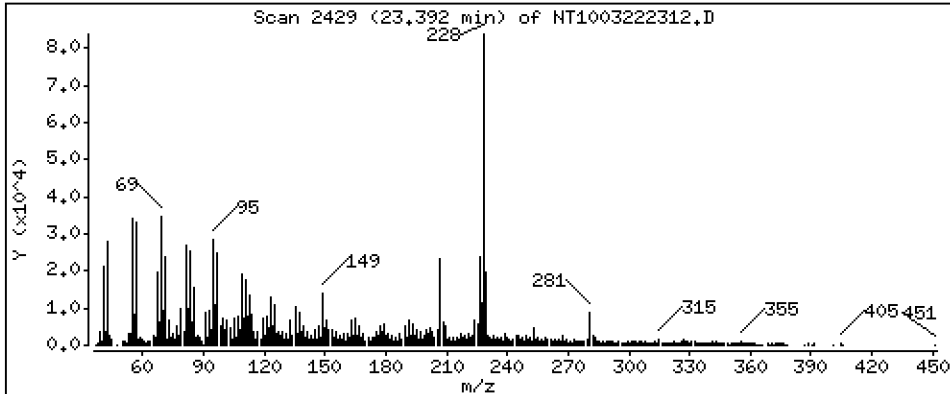
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 0.7148 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

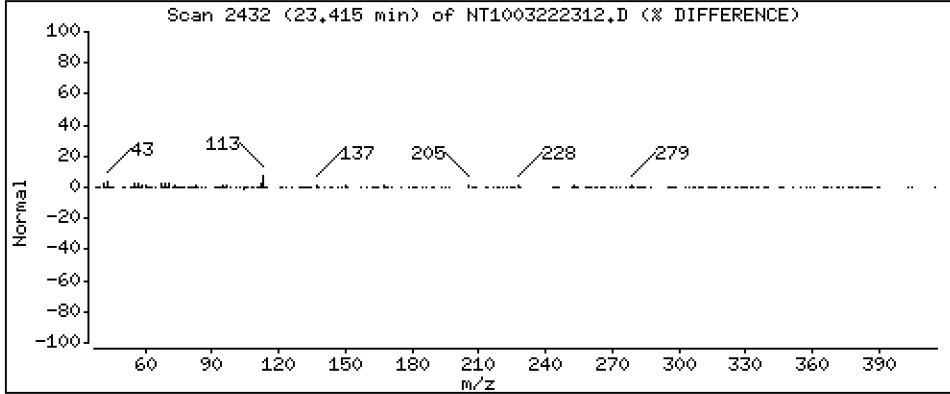
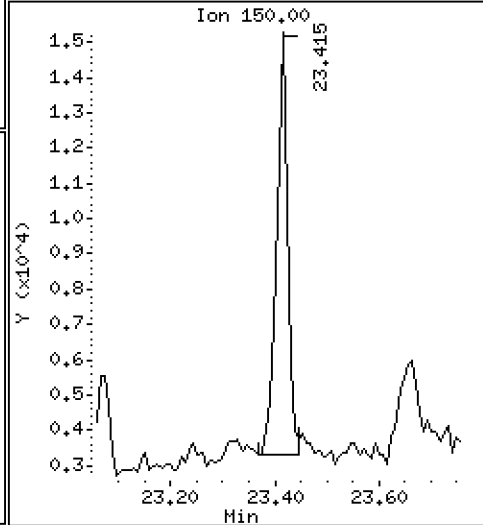
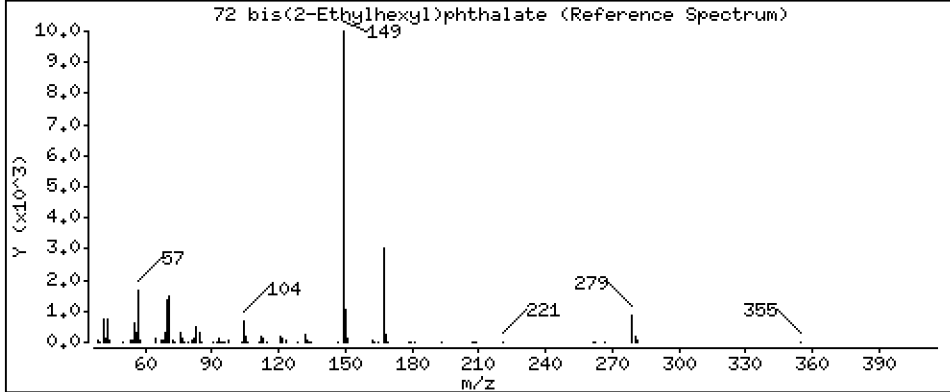
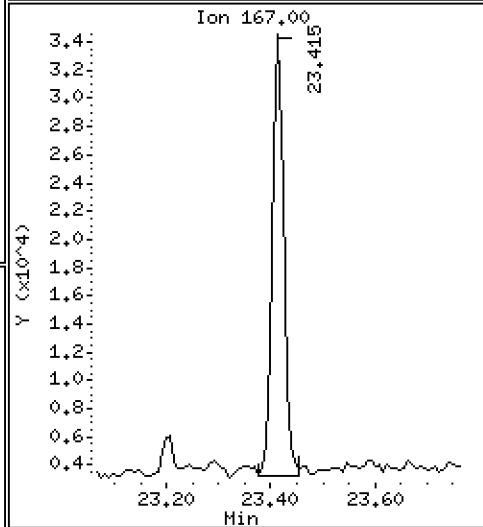
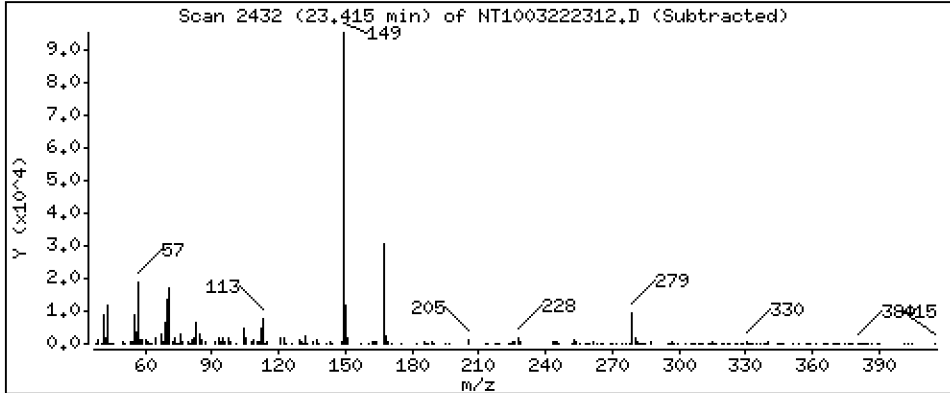
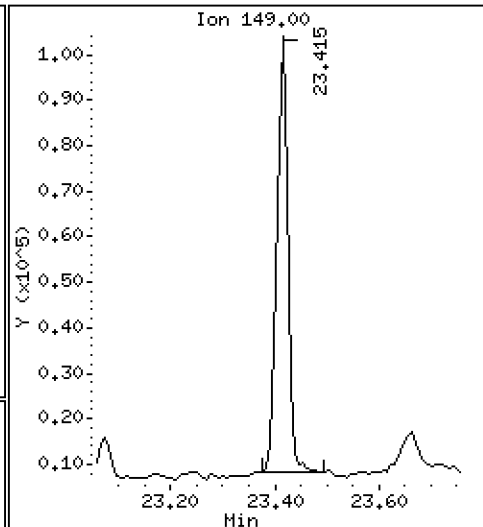
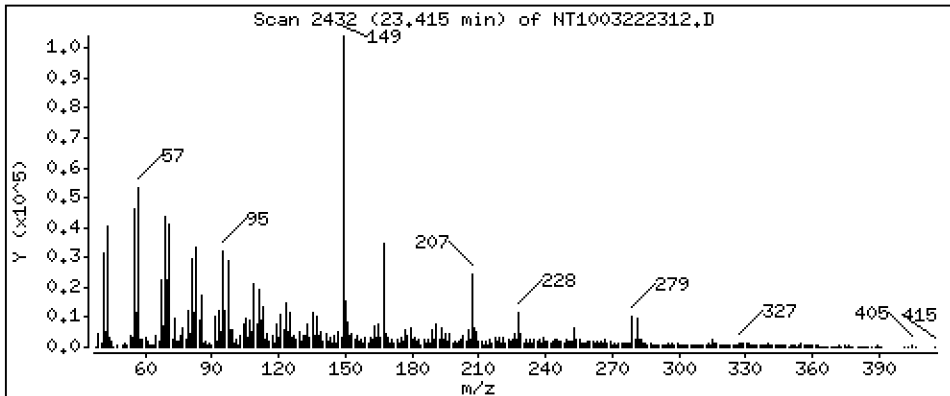
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,9490 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

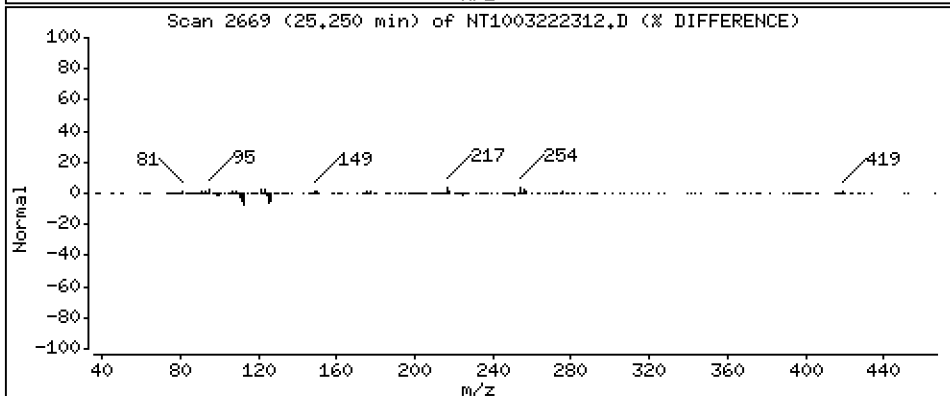
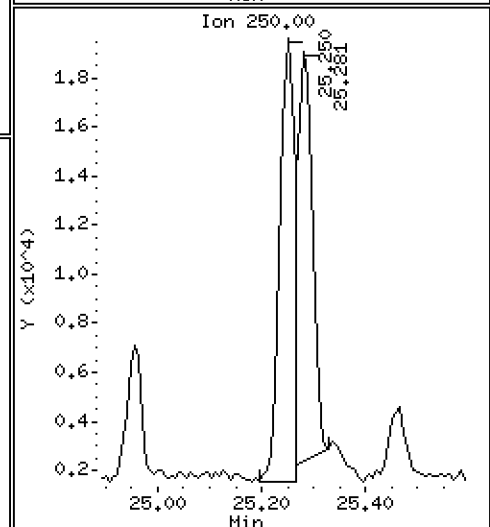
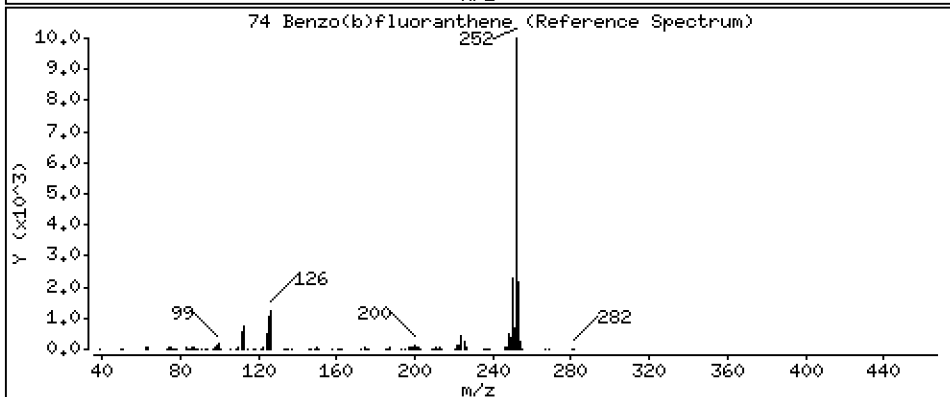
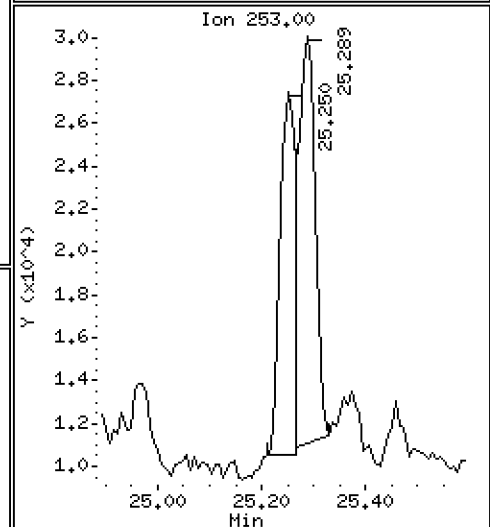
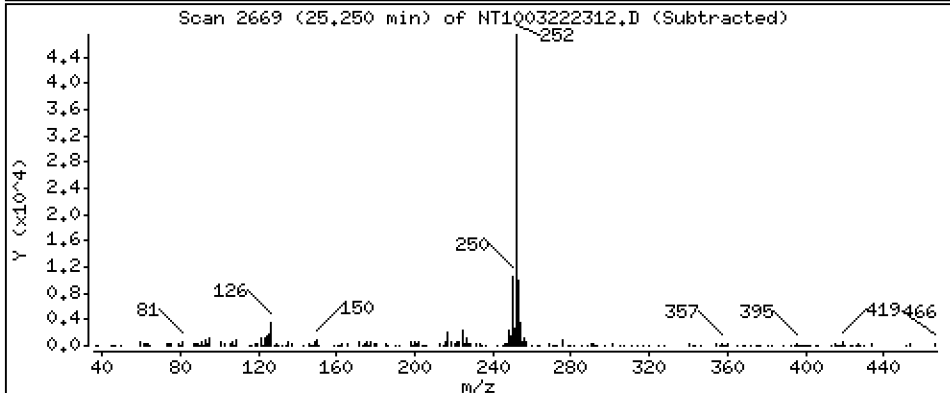
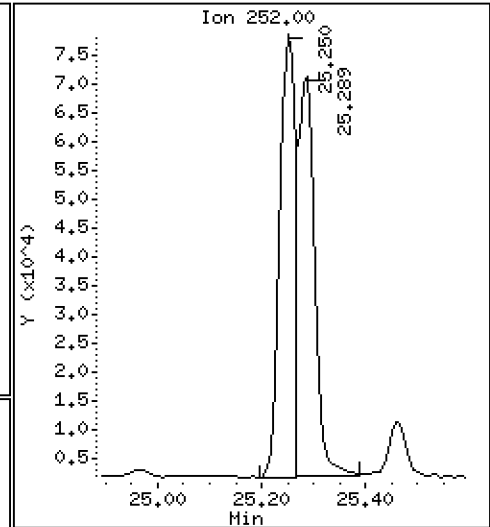
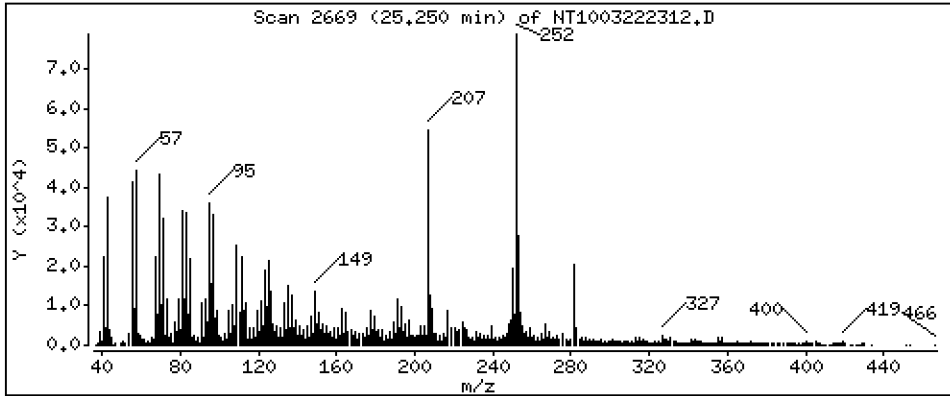
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,7031 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

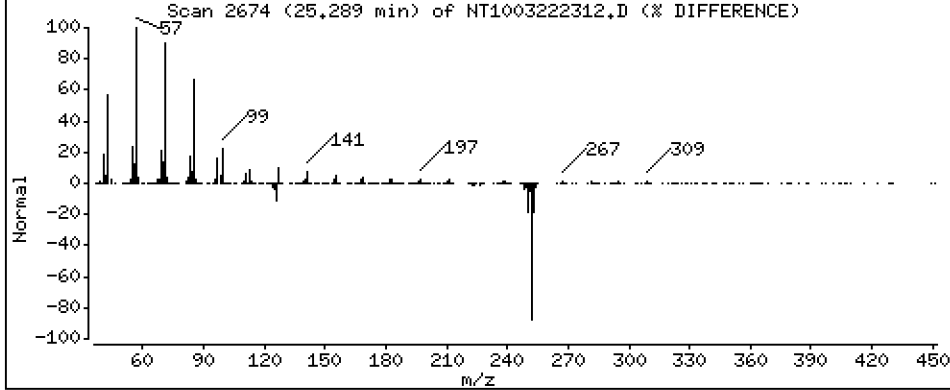
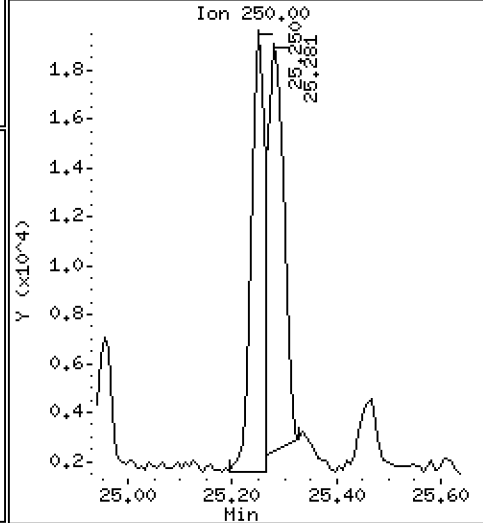
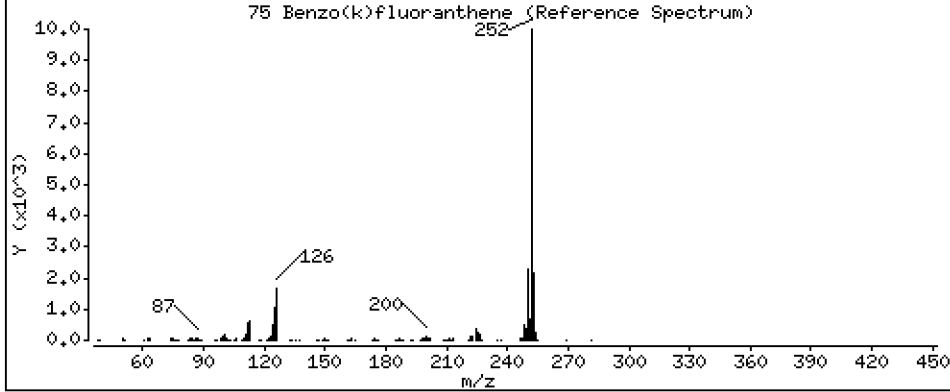
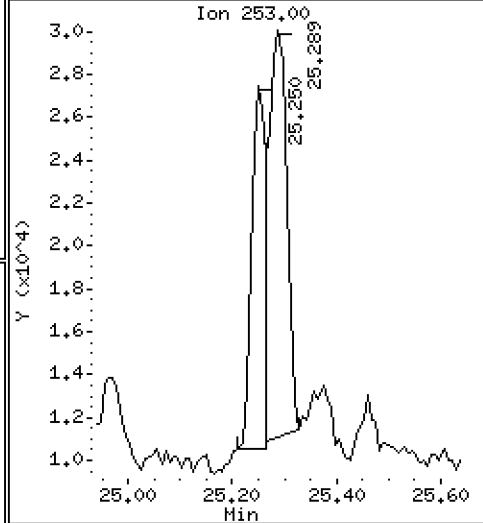
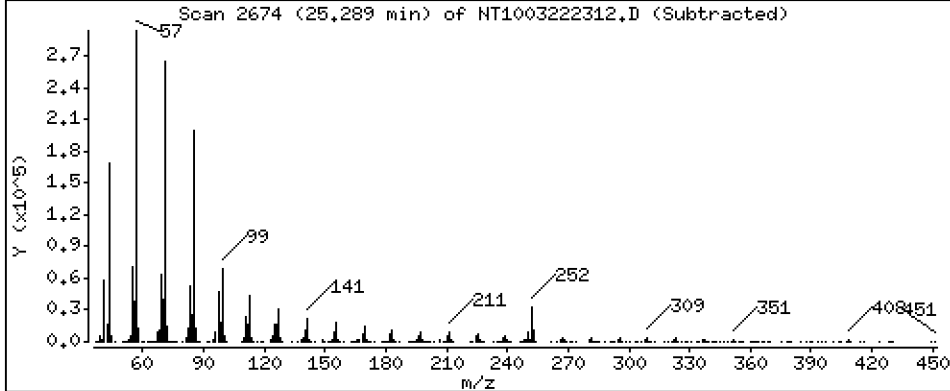
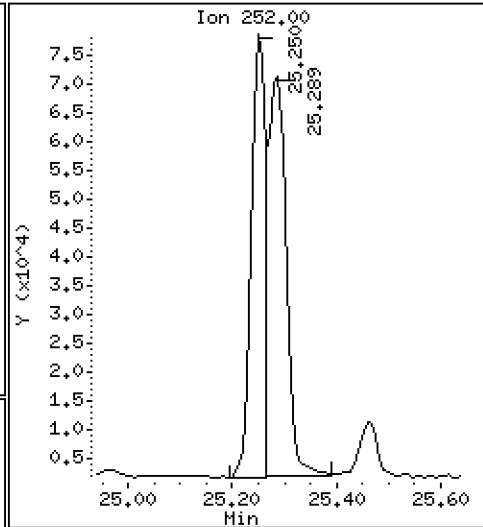
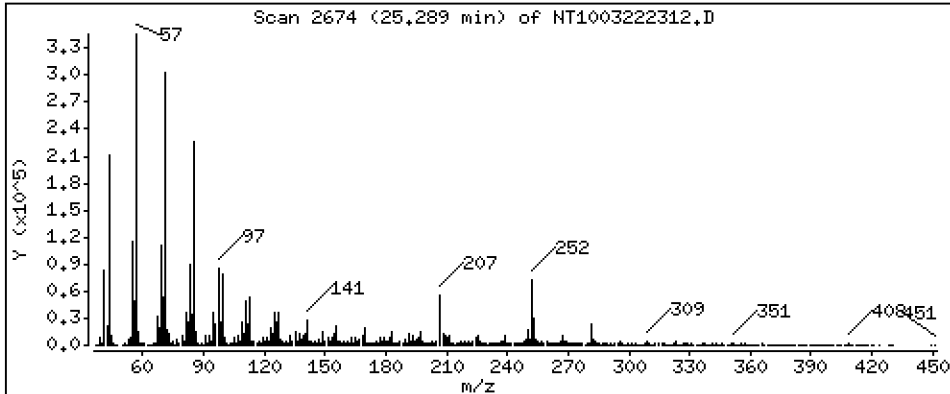
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,7895 ug/mL





Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

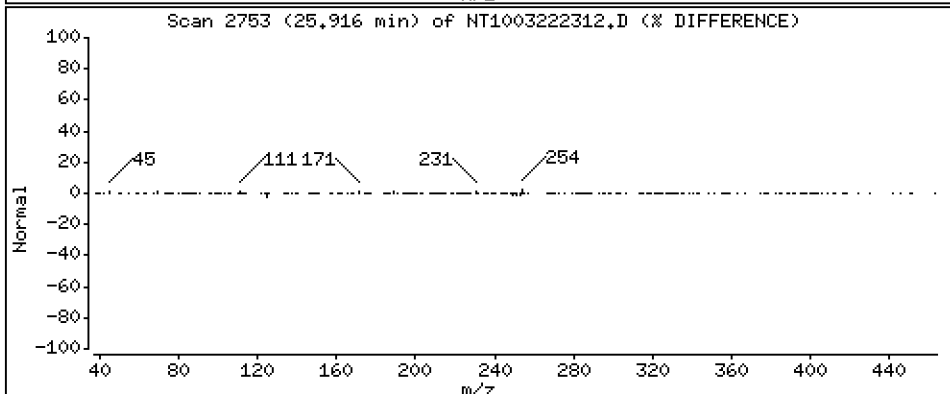
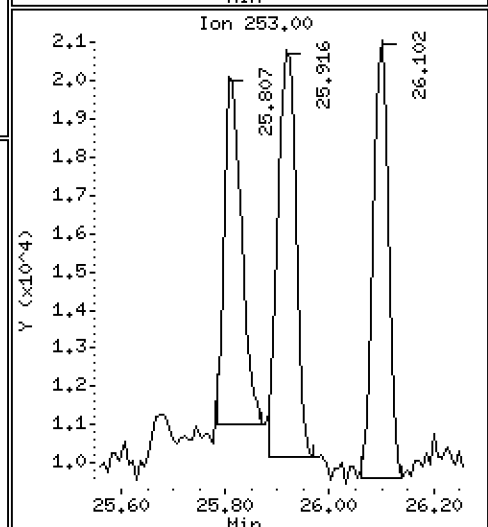
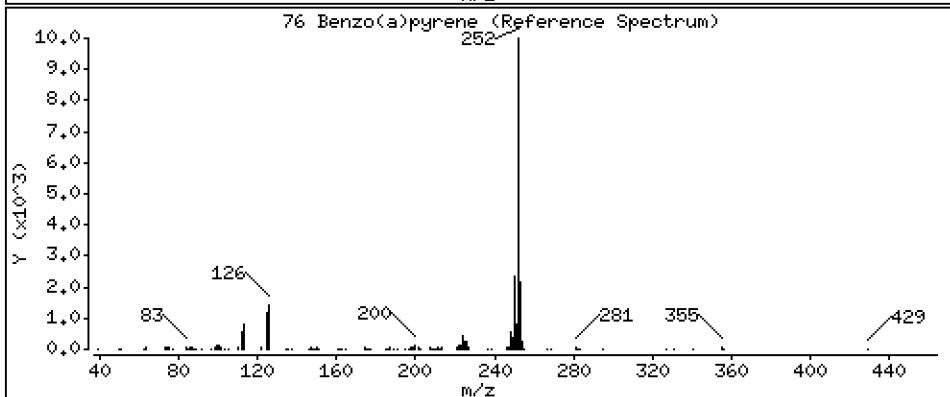
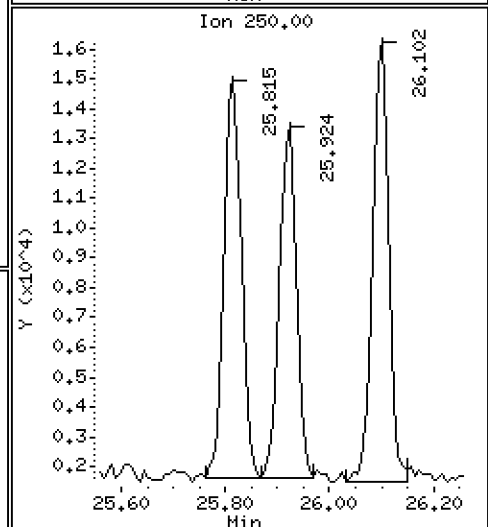
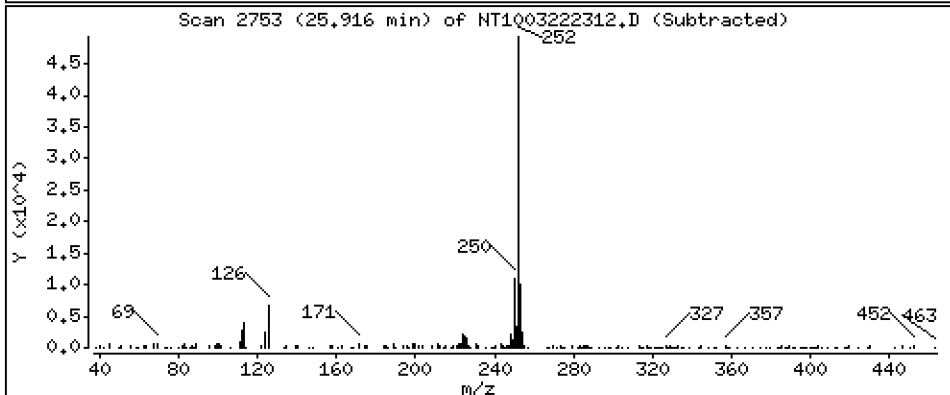
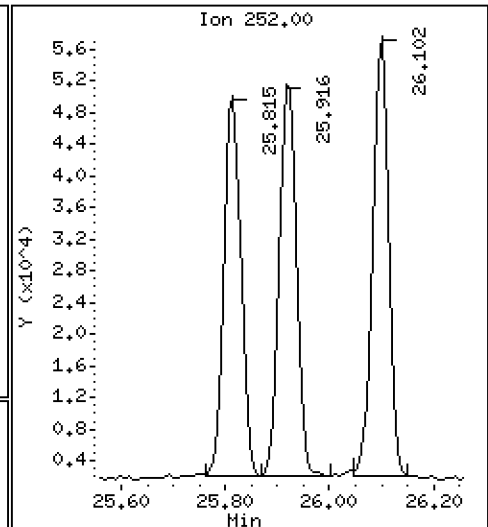
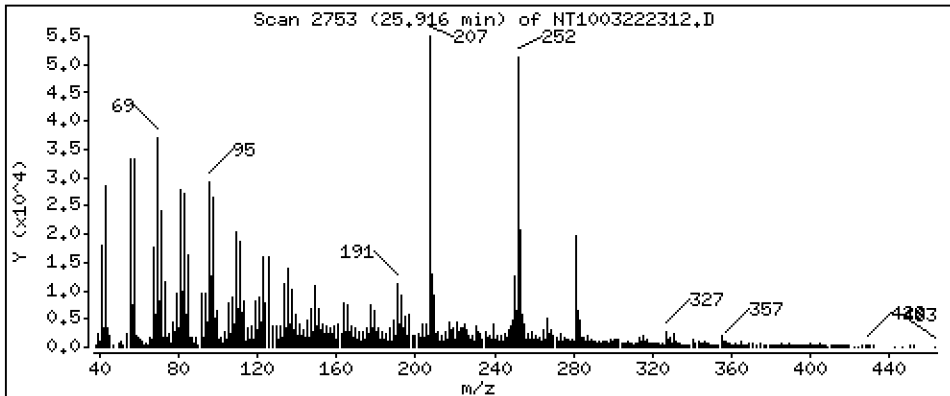
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,5630 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

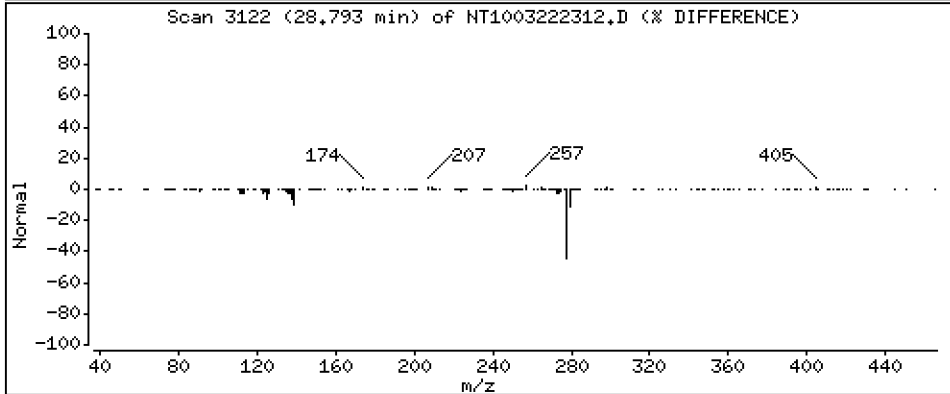
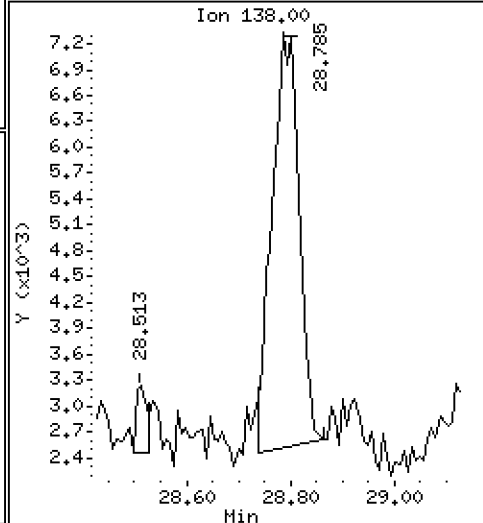
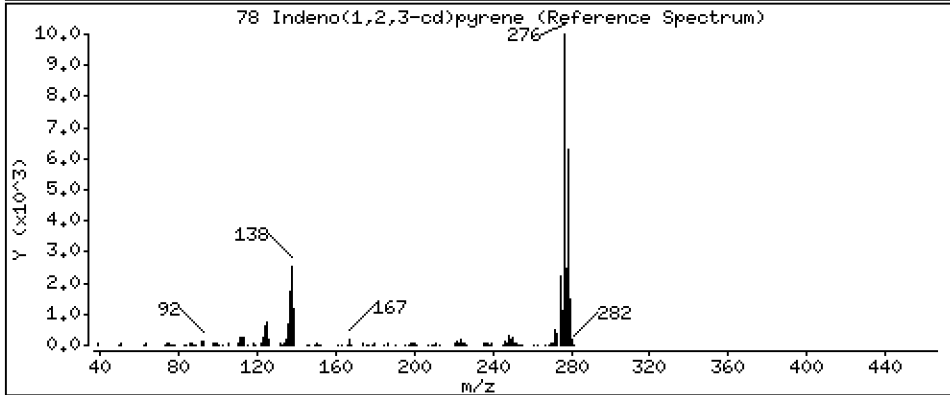
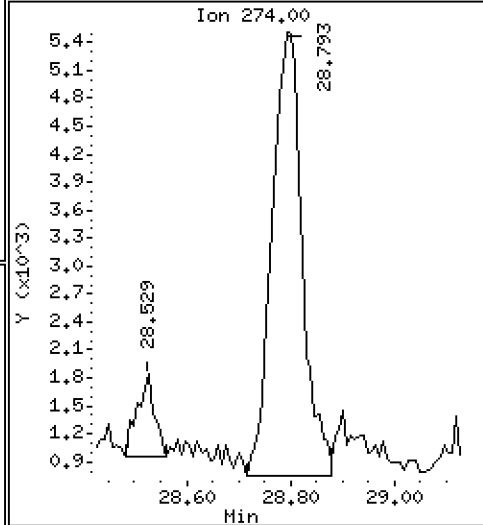
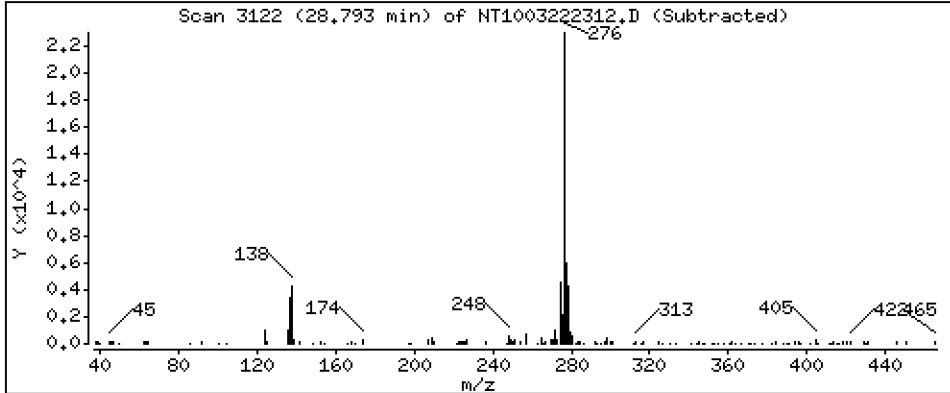
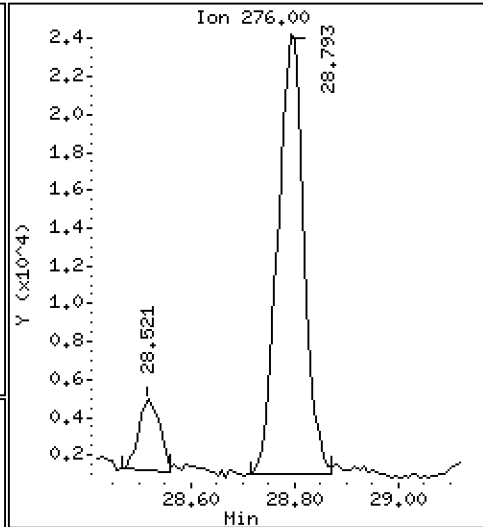
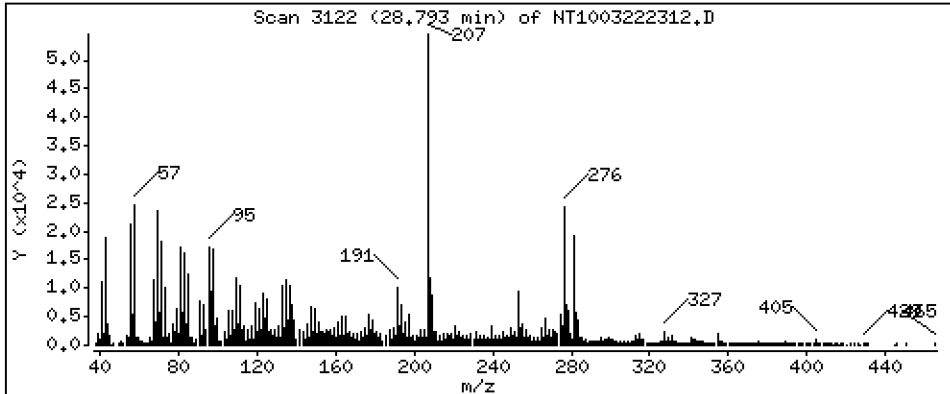
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,3272 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

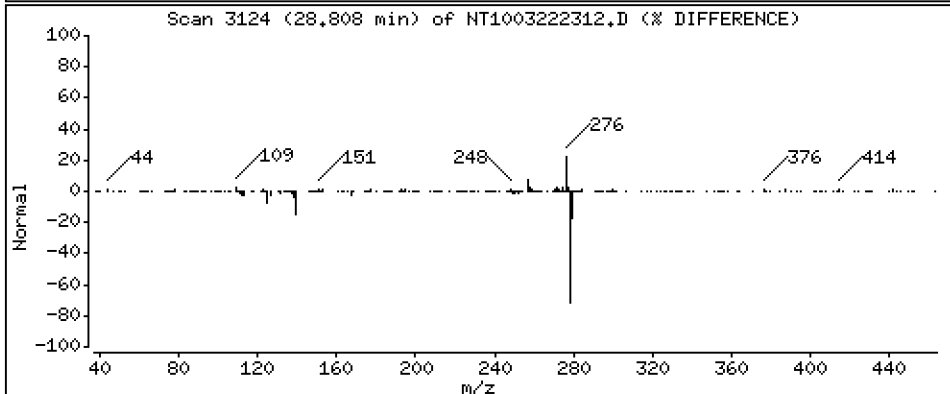
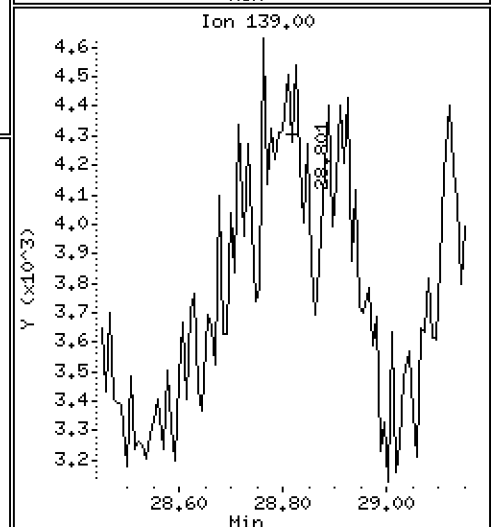
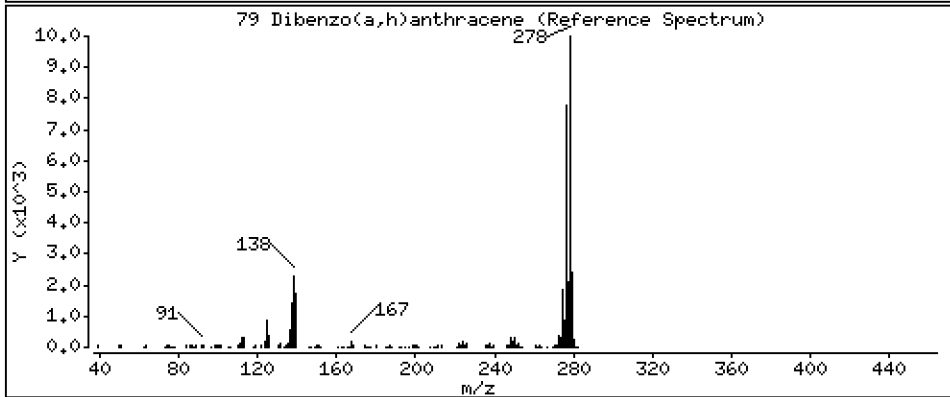
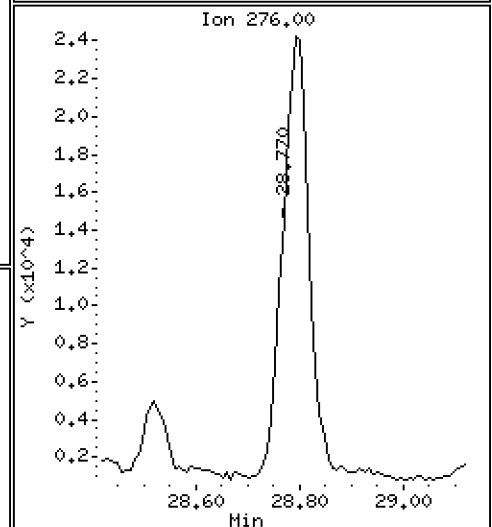
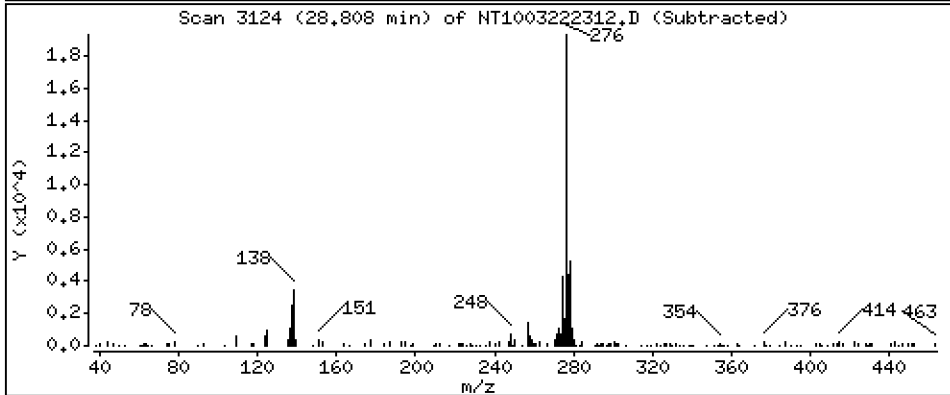
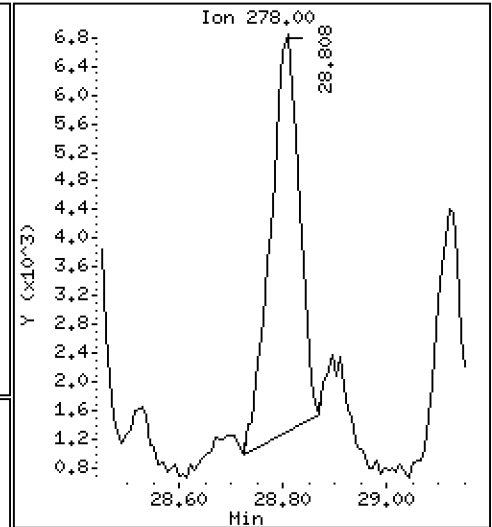
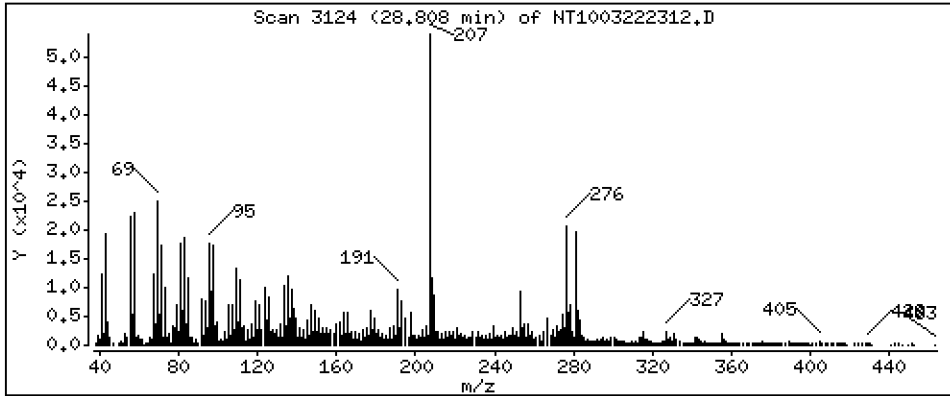
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1012 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

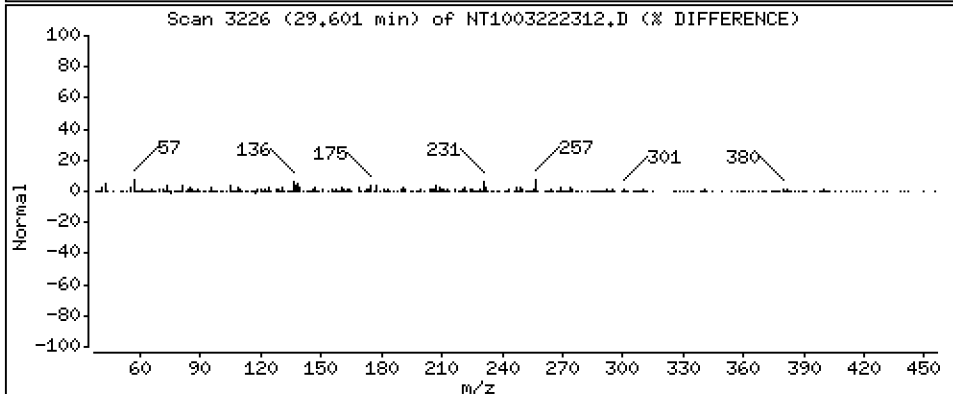
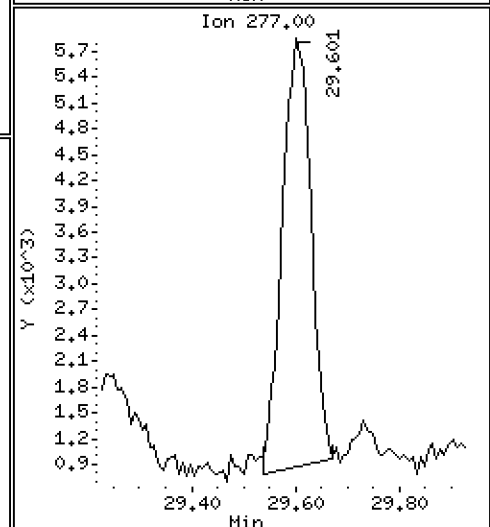
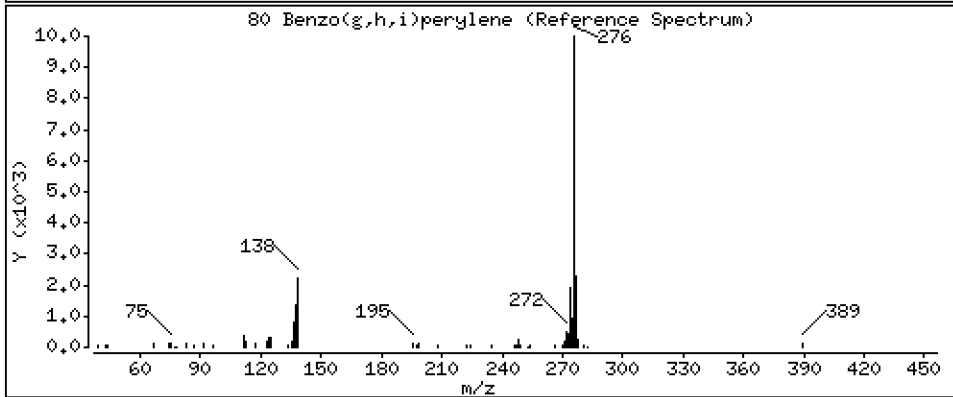
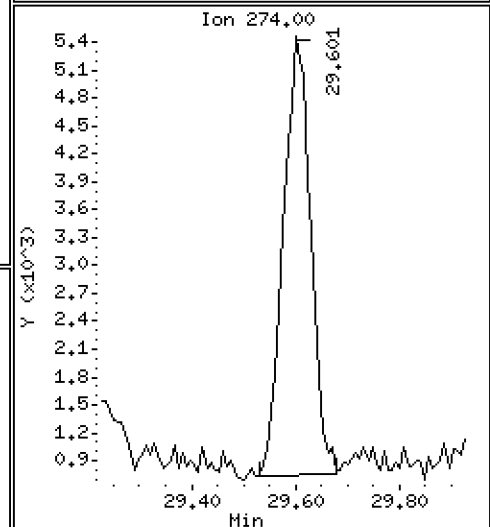
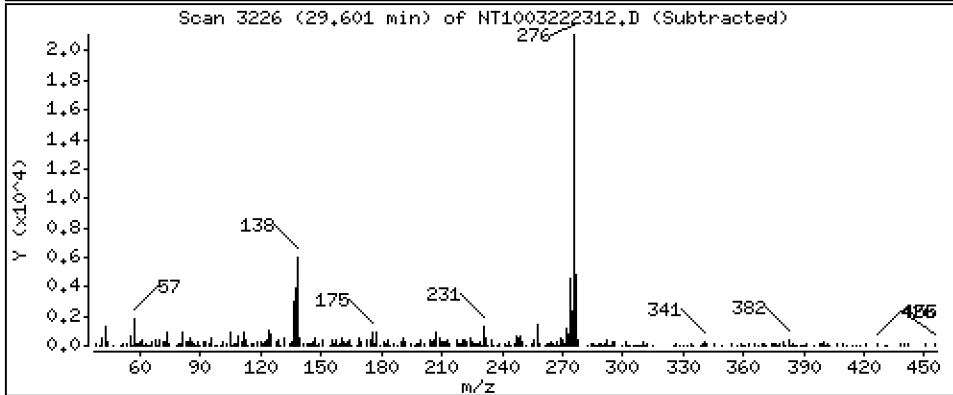
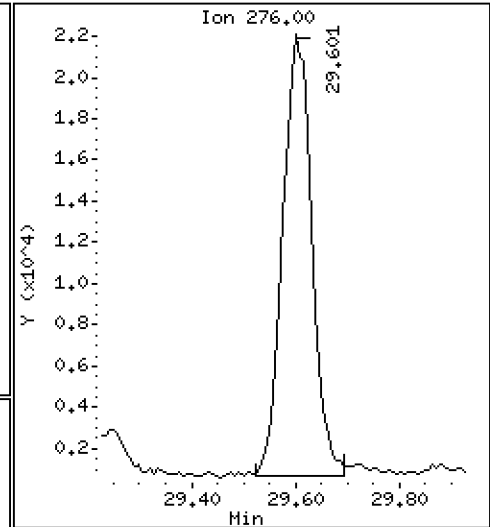
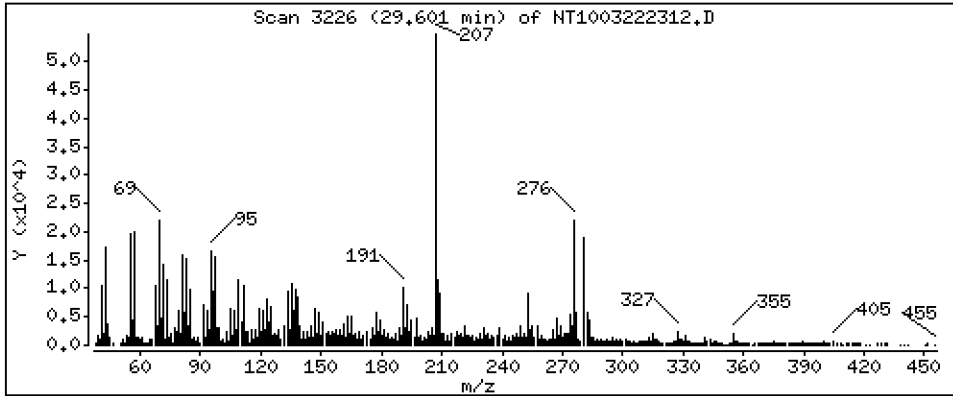
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,3848 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

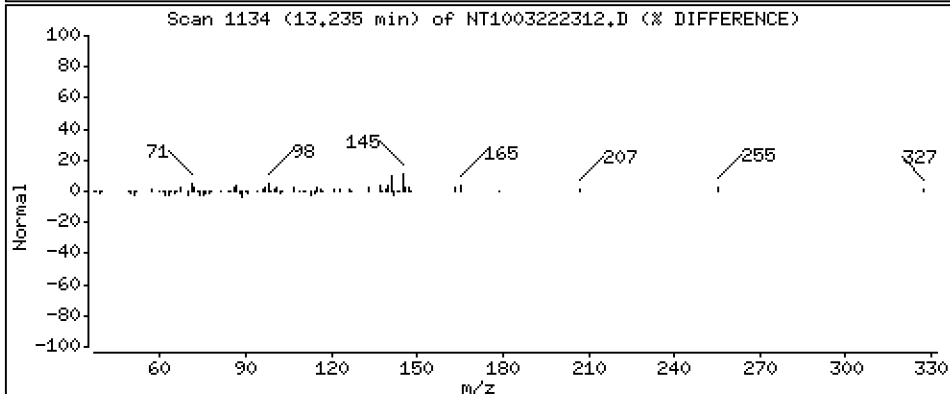
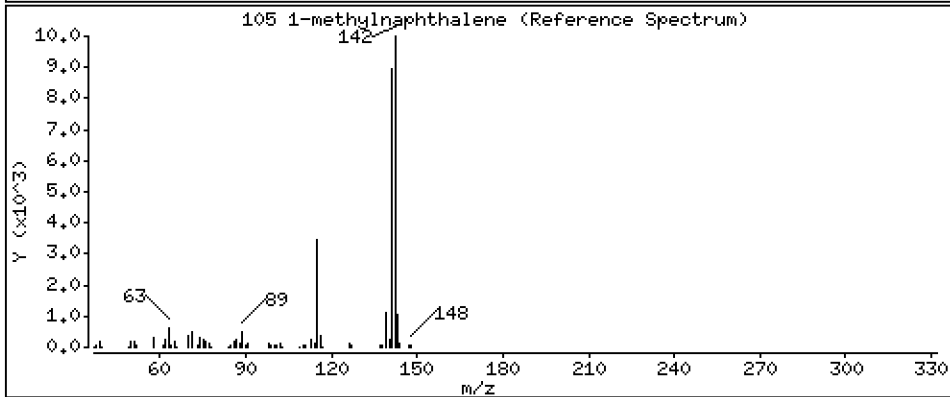
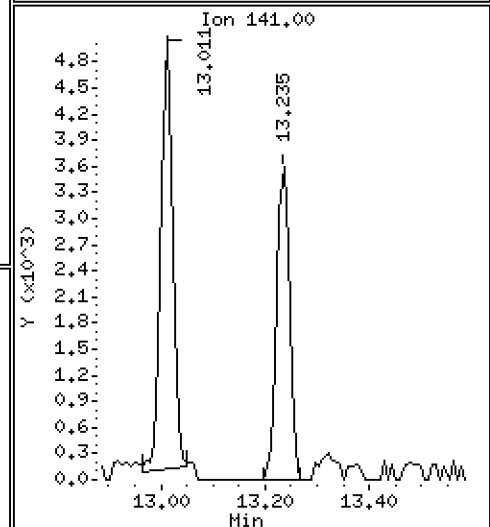
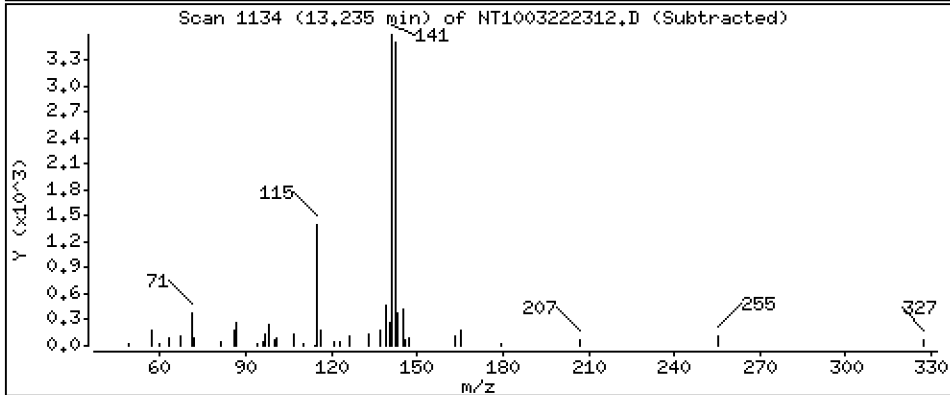
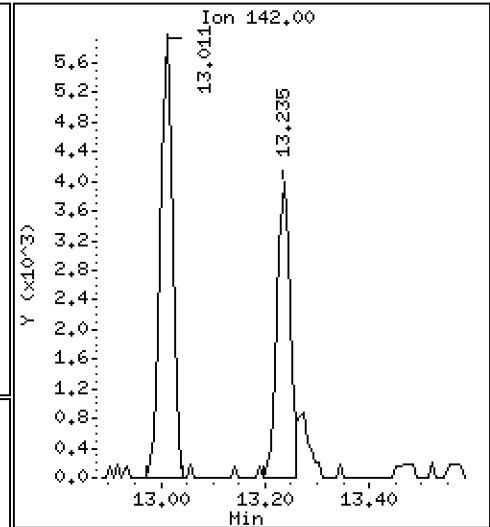
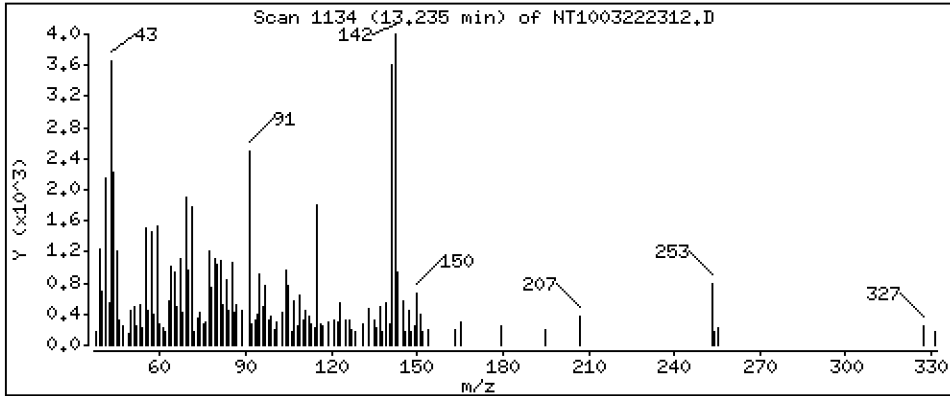
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,06078 ug/mL



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03RE1

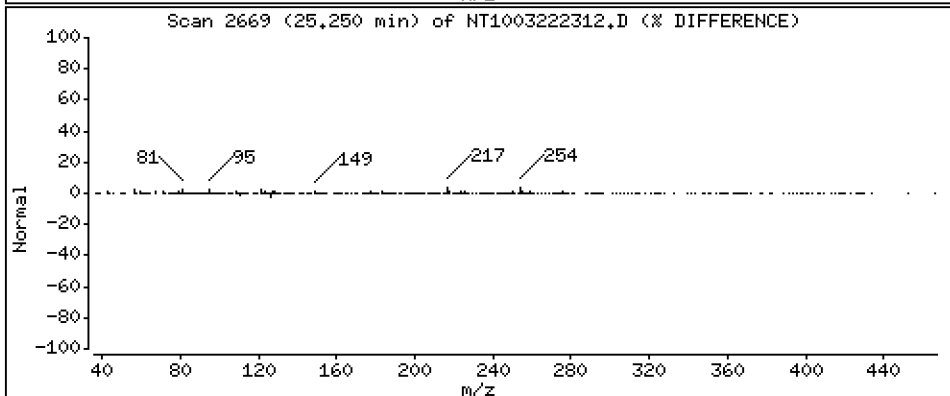
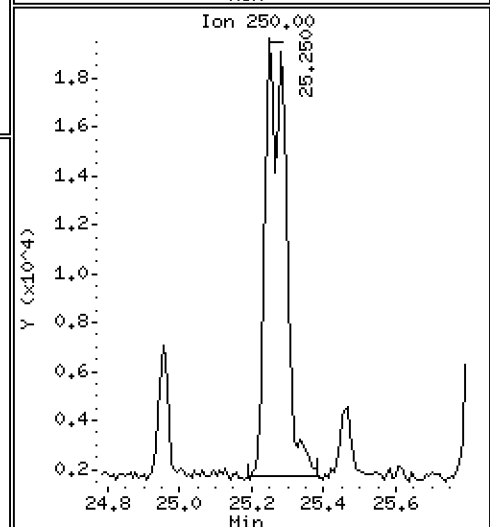
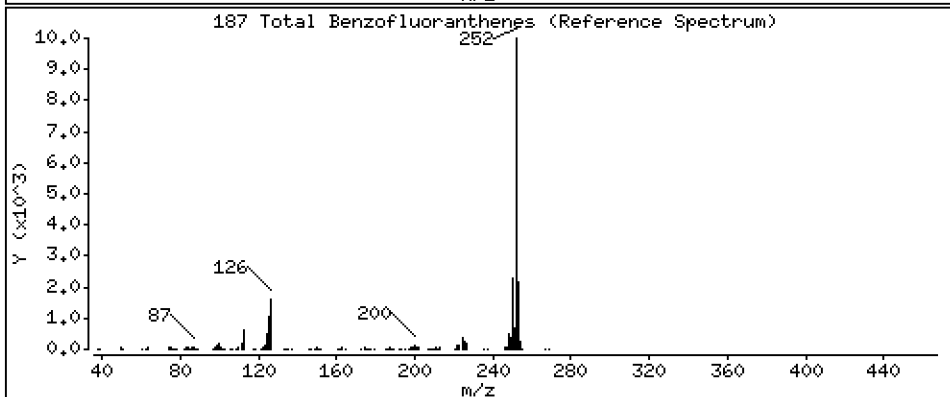
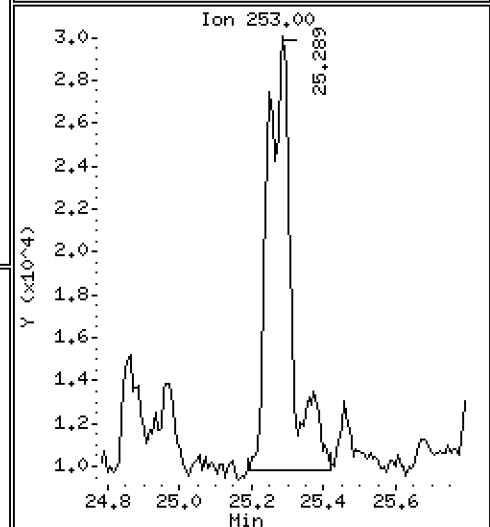
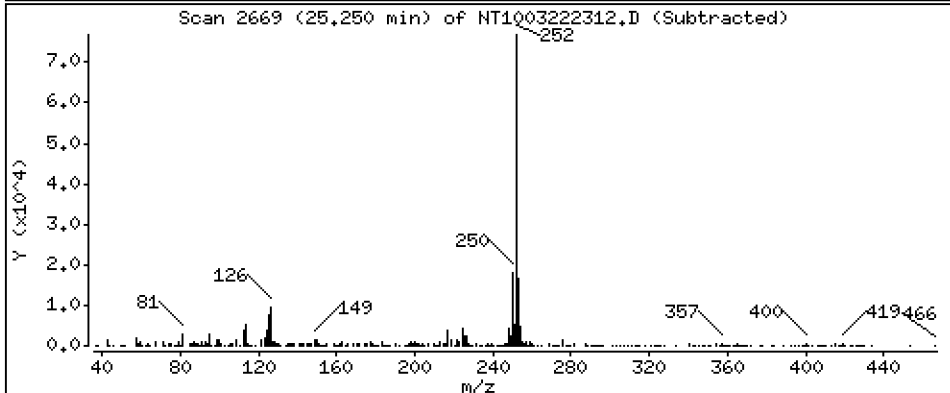
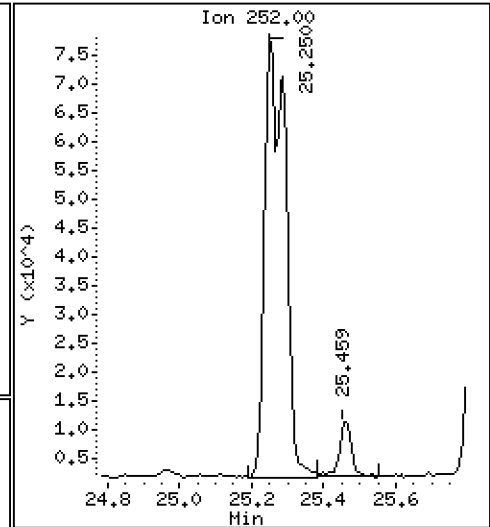
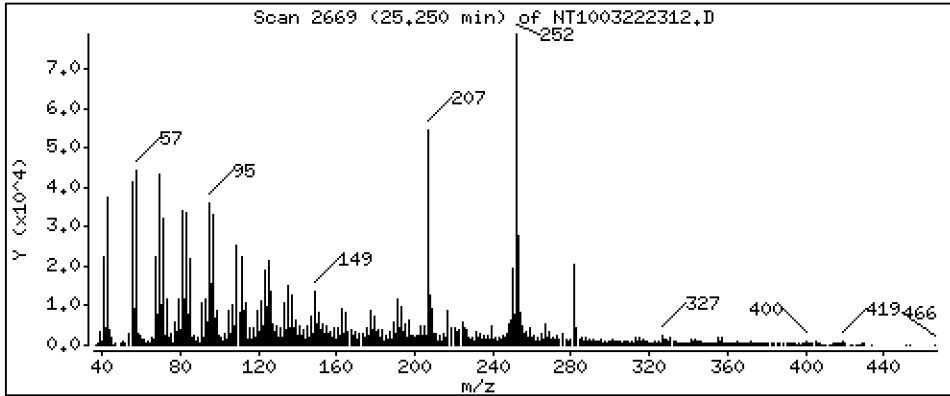
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,440 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222312.D  
 Lab Smp Id: 23A0179-03RE1  
 Inj Date : 23-MAR-2023 00:05  
 Operator : VTS  
 Smp Info : 23A0179-03RE1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 07:55 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 12  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |         |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|---------|
|                                 |       |     |                        |        |         |          | ON-COLUMN      | FINAL   |
|                                 | MASS  |     |                        |        |         |          | (ug/mL)        | (ug/mL) |
| \$ 1 2-Fluorophenol             | 112   |     | 6.866                  | 6.851  | (0.756) | 300076   | 5.72707        | 5.727   |
| \$ 2 Phenol-d5                  | 99    |     | 8.450                  | 8.450  | (0.930) | 408196   | 5.93861        | 5.939   |
| 3 Phenol                        | 94    |     | 8.473                  | 8.473  | (0.933) | 236995   | 3.31798        | 3.318   |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.720                  | 8.721  | (0.960) | 366236   | 6.23958        | 6.240   |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | Compound Not Detected. |        |         |          |                |         |
| 6 2-Chlorophenol                | 128   |     | Compound Not Detected. |        |         |          |                |         |
| 7 1,3-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |         |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.084                  | 9.084  | (1.000) | 173261   | 4.00000        |         |
| 9 1,4-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |         |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.441                  | 9.449  | (1.039) | 159828   | 3.79166        | 3.792   |
| 12 1,2-Dichlorobenzene          | 146   |     | Compound Not Detected. |        |         |          |                |         |
| 11 Benzyl alcohol               | 108   |     | 9.356                  | 9.356  | (1.030) | 8761     | 0.26132        | 0.2613  |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | Compound Not Detected. |        |         |          |                |         |
| 13 2-Methylphenol               | 108   |     | Compound Not Detected. |        |         |          |                |         |
| 17 Hexachloroethane             | 117   |     | Compound Not Detected. |        |         |          |                |         |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | Compound Not Detected. |        |         |          |                |         |
| 15 4-Methylphenol               | 108   |     | 9.860                  | 9.853  | (1.085) | 30165    | 0.54983        | 0.5498  |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.179                 | 10.187 | (0.880) | 247767   | 3.89847        | 3.898   |
| 19 Nitrobenzene                 | 77    |     | Compound Not Detected. |        |         |          |                |         |
| 20 Isophorone                   | 82    |     | Compound Not Detected. |        |         |          |                |         |
| 21 2-Nitrophenol                | 139   |     | Compound Not Detected. |        |         |          |                |         |
| 22 2,4-Dimethylphenol           | 107   |     | Compound Not Detected. |        |         |          |                |         |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | Compound Not Detected. |        |         |          |                |         |
| 24 Benzoic acid                 | 105   |     | 11.011                 | 11.104 | (0.952) | 25083    | 0.78735        | 0.7874  |
| 25 2,4-Dichlorophenol           | 162   |     | Compound Not Detected. |        |         |          |                |         |
| 26 1,2,4-Trichlorobenzene       | 180   |     | Compound Not Detected. |        |         |          |                |         |
| * 27 Naphthalene-d8             | 136   |     | 11.572                 | 11.572 | (1.000) | 629654   | 4.00000        |         |
| 28 Naphthalene                  | 128   |     | 11.610                 | 11.611 | (1.003) | 13930    | 0.08351        | 0.08351 |
| 29 4-Chloroaniline              | 127   |     | Compound Not Detected. |        |         |          |                |         |
| 30 Hexachlorobutadiene          | 225   |     | Compound Not Detected. |        |         |          |                |         |
| 31 4-Chloro-3-methylphenol      | 107   |     | Compound Not Detected. |        |         |          |                |         |
| 32 2-Methylnaphthalene          | 142   |     | 13.010                 | 13.011 | (1.124) | 9177     | 0.07624        | 0.07624 |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                |         |

| Compounds                         | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
|                                   |       |     |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| \$ 36 2-Fluorobiphenyl            | 172   |     | 13.792 | 13.800 | (0.907) | 580760   | 4.25826              | 4.258            |
| 37 2-Chloronaphthalene            | 162   |     |        |        |         |          |                      |                  |
| 38 2-Nitroaniline                 | 65    |     |        |        |         |          |                      |                  |
| 39 Dimethylphthalate              | 163   |     |        |        |         |          |                      |                  |
| 40 Acenaphthylene                 | 152   |     | 14.883 | 14.884 | (0.979) | 7443     | 0.04325              | 0.04325          |
| 41 2,6-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| * 42 Acenaphthene-d10             | 164   |     | 15.201 | 15.193 | (1.000) | 344777   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 44 Acenaphthene                   | 153   |     | 15.262 | 15.263 | (1.004) | 6853     | 0.06446              | 0.06446          |
| 45 2,4-Dinitrophenol              | 184   |     |        |        |         |          |                      |                  |
| 46 Dibenzofuran                   | 168   |     | 15.595 | 15.595 | (1.026) | 11910    | 0.07597              | 0.07597          |
| 47 4-Nitrophenol                  | 109   |     |        |        |         |          |                      |                  |
| 48 2,4-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| 50 Diethylphthalate               | 149   |     | 16.167 | 16.175 | (1.064) | 33176    | 0.30189              | 0.3019           |
| 49 Fluorene                       | 166   |     | 16.306 | 16.306 | (1.073) | 9325     | 0.07561              | 0.07561          |
| 51 4-Chlorophenyl-phenylether     | 204   |     |        |        |         |          |                      |                  |
| 52 4-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     |        |        |         |          |                      |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     |        |        |         |          |                      |                  |
| \$ 55 2,4,6-Tribromophenol        | 330   |     | 16.846 | 16.846 | (1.108) | 143630   | 8.95941              | 8.959            |
| 56 4-Bromophenyl-phenylether      | 248   |     |        |        |         |          |                      |                  |
| 57 Hexachlorobenzene              | 284   |     |        |        |         |          |                      |                  |
| 58 Pentachlorophenol              | 266   |     |        |        |         |          |                      |                  |
| * 59 Phenanthrene-d10             | 188   |     | 18.252 | 18.253 | (1.000) | 645006   | 4.00000              |                  |
| 60 Phenanthrene                   | 178   |     | 18.299 | 18.299 | (1.003) | 90744    | 0.51595              | 0.5159           |
| 61 Anthracene                     | 178   |     | 18.392 | 18.392 | (1.008) | 32501    | 0.19264              | 0.1926           |
| 62 Carbazole                      | 167   |     | 18.732 | 18.725 | (1.026) | 12174    | 0.08052              | 0.08052          |
| 63 Di-n-butylphthalate            | 149   |     | 19.545 | 19.545 | (1.071) | 7173     | 0.03528              | 0.03528          |
| 64 Fluoranthene                   | 202   |     | 20.736 | 20.705 | (0.888) | 254586   | 1.08919              | 1.089            |
| 65 Pyrene                         | 202   |     | 21.138 | 21.131 | (0.905) | 252958   | 1.05499              | 1.055            |
| \$ 66 Terphenyl-d14               | 244   |     | 21.432 | 21.425 | (0.918) | 769463   | 4.27324              | 4.273            |
| 67 Butylbenzylphthalate           | 149   |     | 22.369 | 22.369 | (0.958) | 7957     | 0.09455              | 0.09455          |
| 68 Benzo(a)anthracene             | 228   |     | 23.322 | 23.314 | (0.999) | 107744   | 0.52475              | 0.5248           |
| * 69 Chrysene-d12                 | 240   |     | 23.353 | 23.345 | (1.000) | 581703   | 4.00000              | (H)              |
| 70 3,3'-Dichlorobenzidine         | 252   |     |        |        |         |          |                      |                  |
| 71 Chrysene                       | 228   |     | 23.391 | 23.392 | (1.002) | 143379   | 0.71476              | 0.7148           |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 23.415 | 23.407 | (0.959) | 137547   | 0.94901              | 0.9490           |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 24.421 | 24.413 | (1.000) | 990496   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149   |     |        |        |         |          |                      |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 25.249 | 25.242 | (0.969) | 154998   | 0.70312              | 0.7031           |
| 75 Benzo(k)fluoranthene           | 252   |     | 25.288 | 25.288 | (0.971) | 176723   | 0.78949              | 0.7895           |
| 76 Benzo(a)pyrene                 | 252   |     | 25.915 | 25.908 | (0.995) | 110958   | 0.56298              | 0.5630           |
| * 77 Perylene-d12                 | 264   |     | 26.047 | 26.024 | (1.000) | 680067   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 28.792 | 28.769 | (1.105) | 82051    | 0.32723              | 0.3272           |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 28.808 | 28.800 | (1.106) | 21073    | 0.10123              | 0.1012 (M)       |
| 80 Benzo(g,h,i)perylene           | 276   |     | 29.600 | 29.577 | (1.136) | 83504    | 0.38481              | 0.3848           |
| 90 N-Nitrosodimethylamine         | 74    |     |        |        |         |          |                      |                  |
| 91 Aniline                        | 93    |     |        |        |         |          |                      |                  |
| 93 Benzidine                      | 184   |     |        |        |         |          |                      |                  |
| 103 Pyridine                      | 79    |     |        |        |         |          |                      |                  |
| 105 1-methylnaphthalene           | 142   |     | 13.235 | 13.235 | (1.144) | 6703     | 0.06078              | 0.06078          |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     |        |        |         |          |                      |                  |



| Compounds                     | QUANT SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |  |
|-------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|--|
|                               |           |                        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |  |
| 187 Total Benzofluoranthenes  | 252       | 25.249                 | 25.288 | (0.969) | 306425   | 1.43967              | 1.440            |  |
| 120 2,3,4,6-Tetrachlorophenol | 232       | Compound Not Detected. |        |         |          |                      |                  |  |

QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 22-MAR-2023  
 Lab File ID: NT1003222312.D Calibration Time: 17:42  
 Lab Smp Id: 23A0179-03RE1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 122478   | 61239      | 244956  | 173261 | 41.46 |
| 27 Naphthalene-d8     | 459261   | 229631     | 918522  | 629654 | 37.10 |
| 42 Acenaphthene-d10   | 264106   | 132053     | 528212  | 344777 | 30.54 |
| 59 Phenanthrene-d10   | 503255   | 251628     | 1006510 | 645006 | 28.17 |
| 69 Chrysene-d12       | 437735   | 218868     | 875470  | 581703 | 32.89 |
| 134 Di-n-octylphthala | 700191   | 350096     | 1400382 | 990496 | 41.46 |
| 77 Perylene-d12       | 499049   | 249525     | 998098  | 680067 | 36.27 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.08     | 8.58     | 9.58  | 9.08   | -0.00 |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.57  | -0.00 |
| 42 Acenaphthene-d10   | 15.19    | 14.69    | 15.69 | 15.20  | 0.05  |
| 59 Phenanthrene-d10   | 18.25    | 17.75    | 18.75 | 18.25  | -0.00 |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.35  | 0.03  |
| 134 Di-n-octylphthala | 24.41    | 23.91    | 24.91 | 24.42  | 0.03  |
| 77 Perylene-d12       | 26.02    | 25.52    | 26.52 | 26.05  | 0.09  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222312.D

Lab ID: 23A0179-03RE1  
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 00:05

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND     |
|-------|---------|---------|--------------|
| 0.952 | 0.960   | -0.0081 | Benzoic acid |

RRT check based on Ccal File: NT1003222302.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

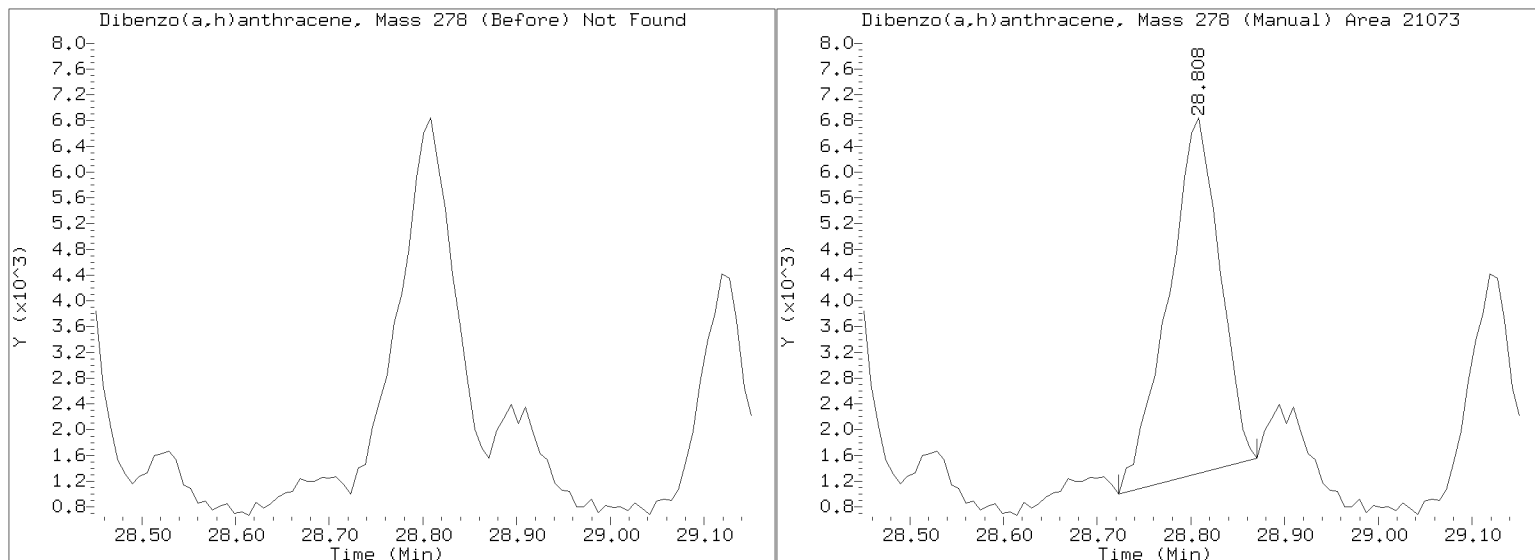
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222312.D

Injection Date: 23-MAR-2023 00:05

Lab ID: 23A0179-03RE1 Client ID:

Report Date: 03/25/2023 07:56





Form I  
ORGANIC ANALYSIS DATA SHEET  
EPA 8270E  
Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-04RE1 A

SDG: 23A0179

Sampled: 01/10/23 09:20

Prepared: 03/17/23 11:16

File ID: NT1003222313.D

% Solids: 53.74

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 00:43

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 18.63 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| CAS NO.  | COMPOUND                    | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|-----------------------------|----------|----------------------|---|------|------|
| 108-95-2 | Phenol                      | 1        | 472                  |   | 4.4  | 20.0 |
| 106-44-5 | 4-Methylphenol              | 1        | 83.9                 |   | 7.4  | 20.0 |
| 91-20-3  | Naphthalene                 | 1        | 9.2                  | J | 4.2  | 20.0 |
| 91-57-6  | 2-Methylnaphthalene         | 1        | 10.6                 | J | 4.5  | 20.0 |
| 208-96-8 | Acenaphthylene              | 1        | 20.0                 | U | 6.2  | 20.0 |
| 131-11-3 | Dimethylphthalate           | 1        | 20.0                 | U | 4.4  | 20.0 |
| 83-32-9  | Acenaphthene                | 1        | 5.5                  | J | 5.2  | 20.0 |
| 132-64-9 | Dibenzofuran                | 1        | 20.0                 | U | 14.1 | 20.0 |
| 86-73-7  | Fluorene                    | 1        | 20.0                 | U | 14.6 | 20.0 |
| 85-01-8  | Phenanthrene                | 1        | 70.6                 |   | 8.7  | 20.0 |
| 120-12-7 | Anthracene                  | 1        | 21.0                 |   | 7.2  | 20.0 |
| 206-44-0 | Fluoranthene                | 1        | 105                  |   | 6.1  | 20.0 |
| 129-00-0 | Pyrene                      | 1        | 123                  |   | 5.7  | 20.0 |
| 85-68-7  | Butylbenzylphthalate        | 1        | 20.0                 | U | 9.4  | 20.0 |
| 56-55-3  | Benzo(a)anthracene          | 1        | 56.6                 |   | 6.0  | 20.0 |
| 218-01-9 | Chrysene                    | 1        | 94.3                 |   | 6.1  | 20.0 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate  | 1        | 88.8                 |   | 5.5  | 49.9 |
|          | Benzo(a)fluoranthene, Total | 1        | 179                  |   | 10.0 | 40.0 |
| 50-32-8  | Benzo(a)pyrene              | 1        | 68.0                 |   | 4.2  | 20.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene      | 1        | 40.6                 |   | 14.6 | 20.0 |
| 53-70-3  | Dibenzo(a,h)anthracene      | 1        | 20.0                 | U | 17.2 | 20.0 |
| 191-24-2 | Benzo(g,h,i)perylene        | 1        | 47.2                 |   | 13.6 | 20.0 |

| SURROGATES             | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol         | 749.12                | 551                   | 73.5  | 27 - 120  |   |
| Phenol-d5              | 749.12                | 561                   | 74.9  | 29 - 120  |   |
| 2-Chlorophenol-d4      | 749.12                | 595                   | 79.4  | 31 - 120  |   |
| 1,2-Dichlorobenzene-d4 | 499.41                | 358                   | 71.8  | 32 - 120  |   |
| Nitrobenzene-d5        | 499.41                | 384                   | 76.9  | 30 - 120  |   |
| 2-Fluorobiphenyl       | 499.41                | 407                   | 81.4  | 35 - 120  |   |



**Form I**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8270E**  
**Semivolatiles (20ug/kg - 0.2ug/L SepF)**

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-04RE1 A

SDG: 23A0179

Sampled: 01/10/23 09:20

Prepared: 03/17/23 11:16

File ID: NT1003222313.D

% Solids: 53.74

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 00:43

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 18.63 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| SURROGATES           | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------|-----------------------|-----------------------|-------|-----------|---|
| 2,4,6-Tribromophenol | 749.12                | 866                   | 116   | 24 - 134  | Q |
| p-Terphenyl-d14      | 499.41                | 397                   | 79.4  | 37 - 120  |   |

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222313.D

Date : 23-HR-2023 00:43

Client ID:

Sample Info: 23A0179-04RE1

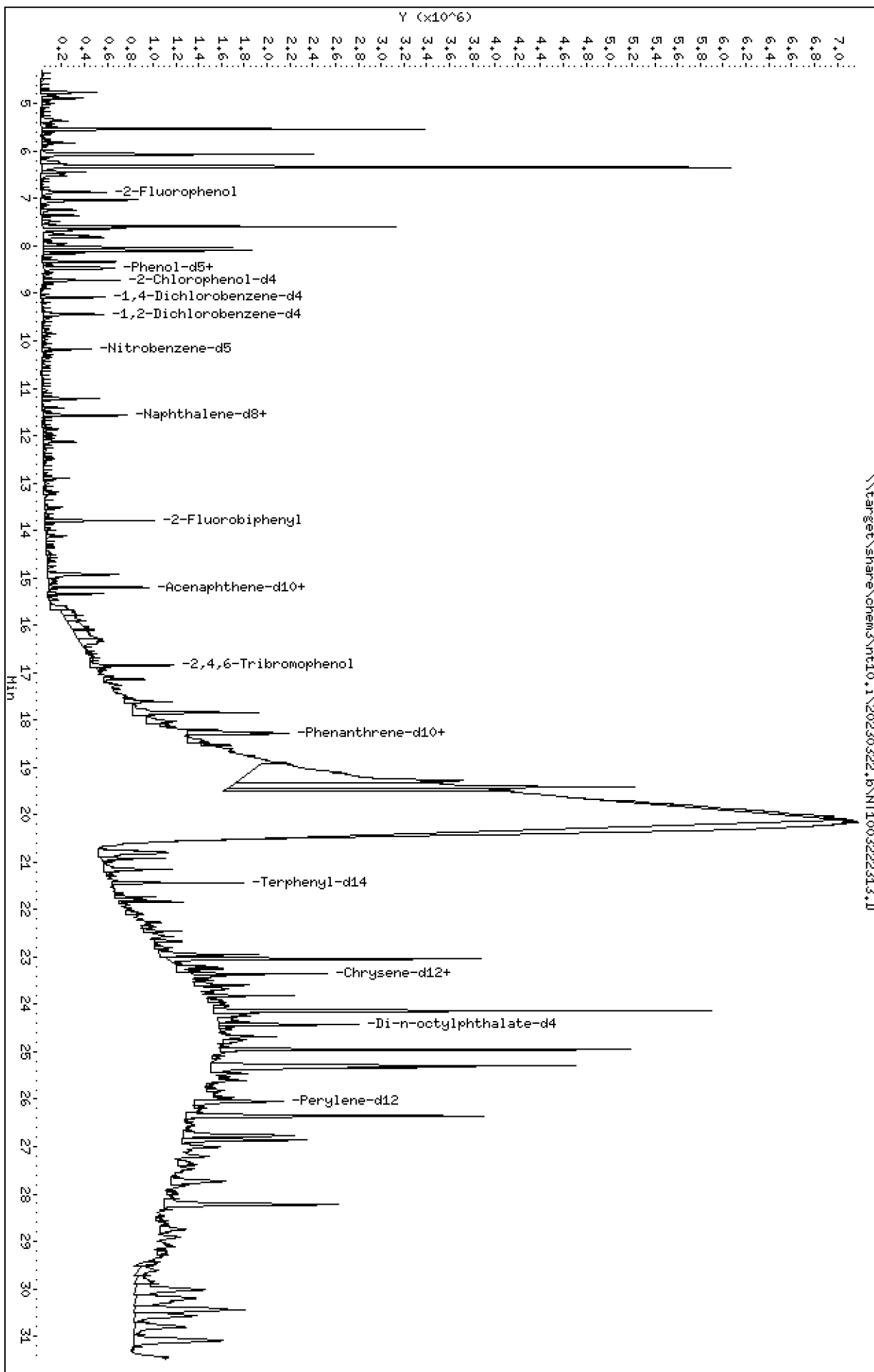
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

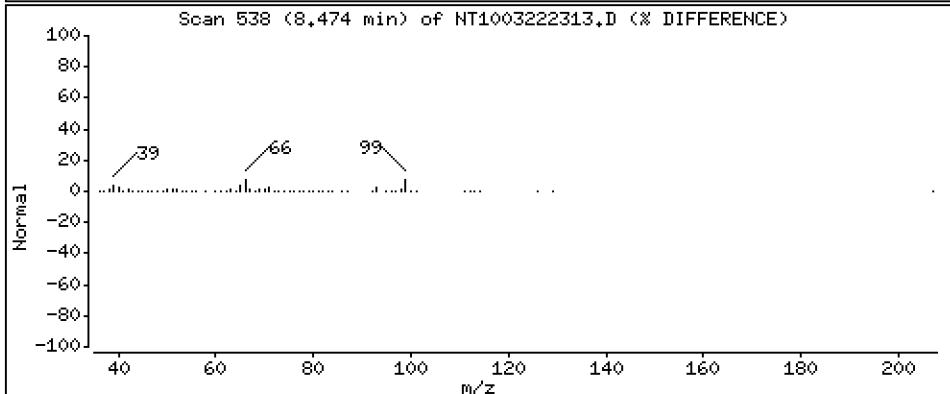
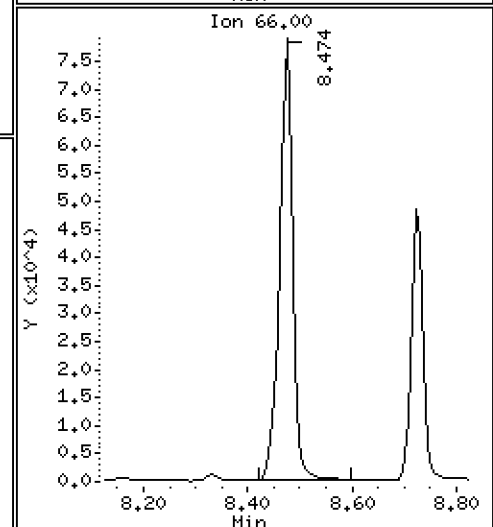
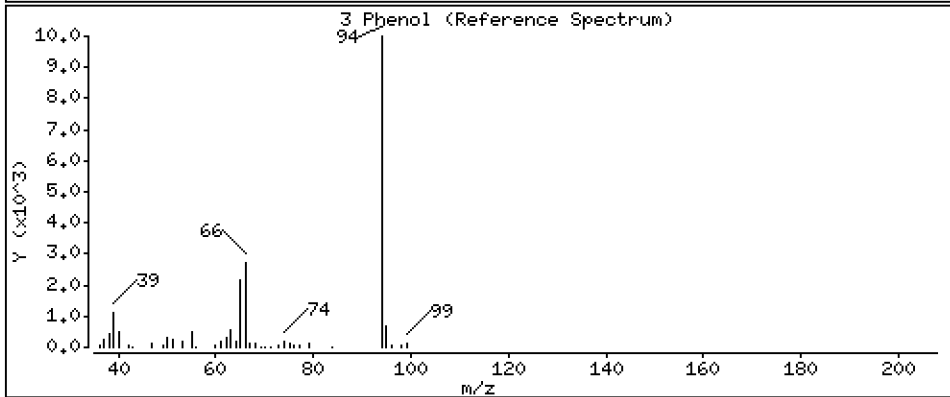
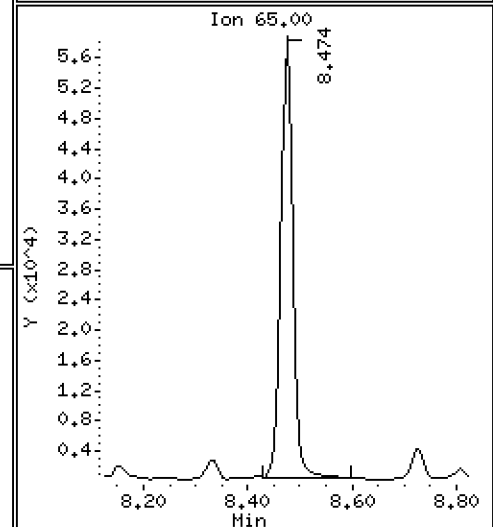
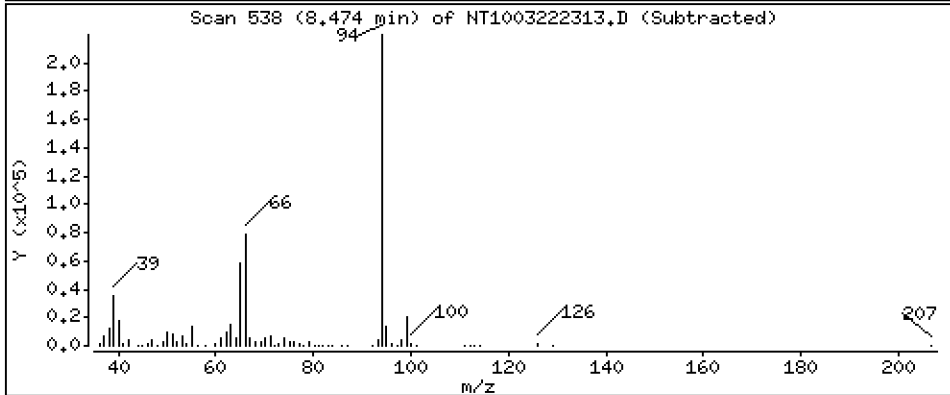
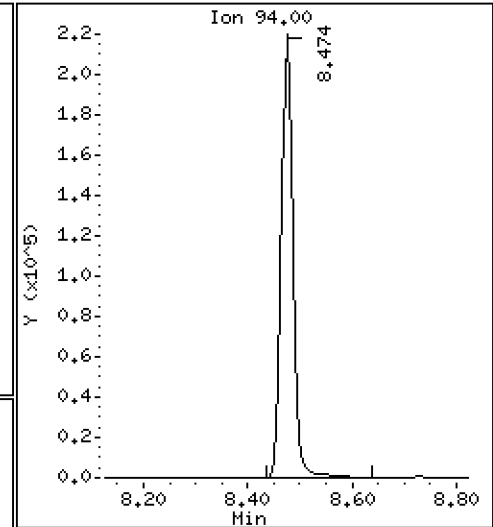
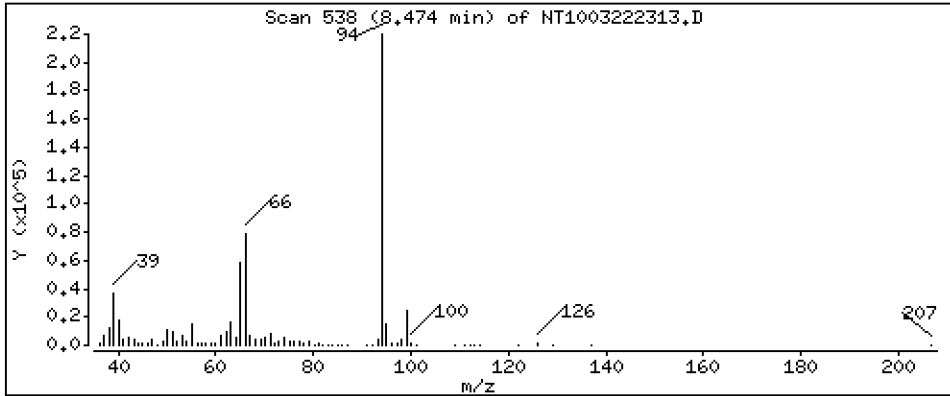
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 4,728 ug/mL





Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

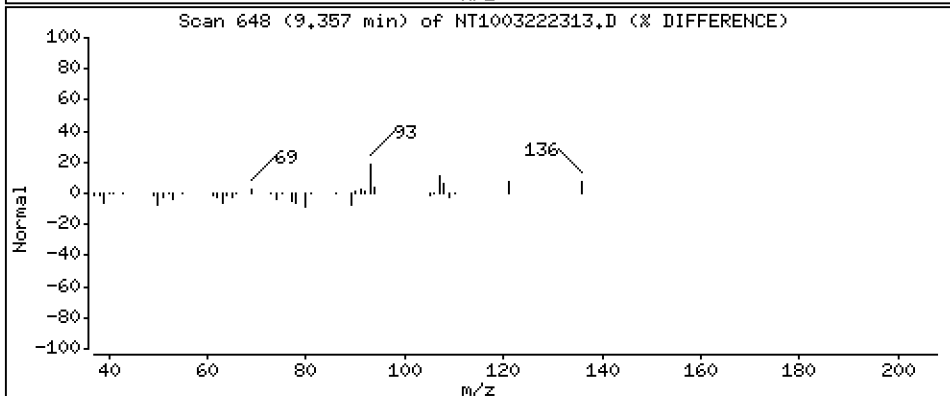
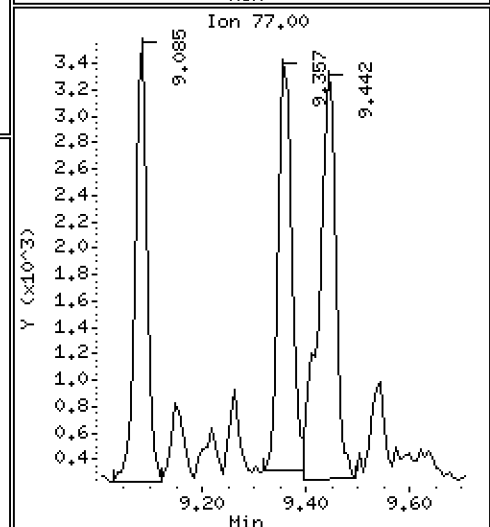
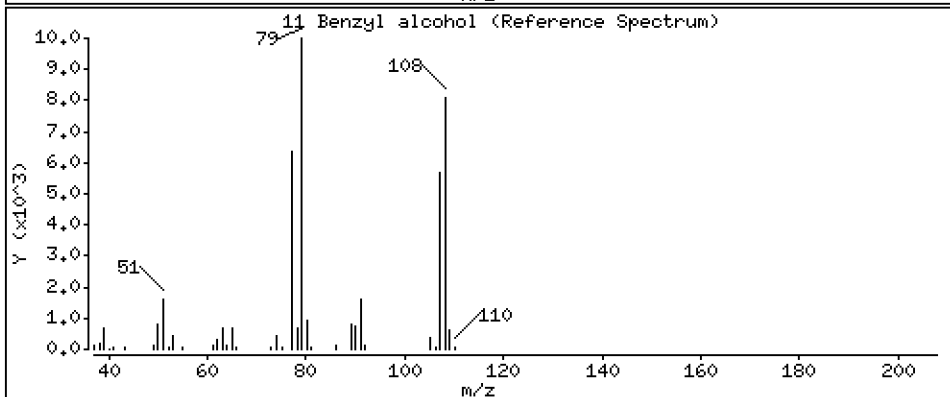
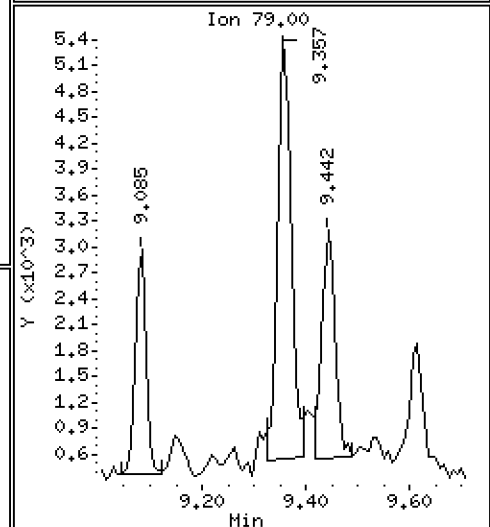
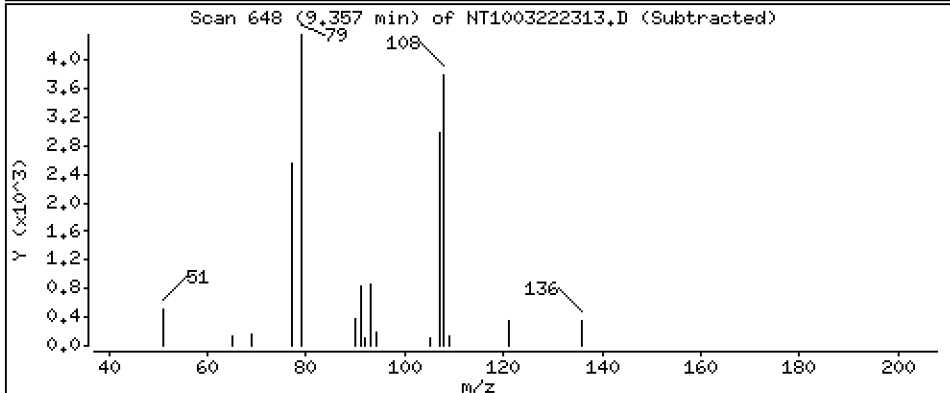
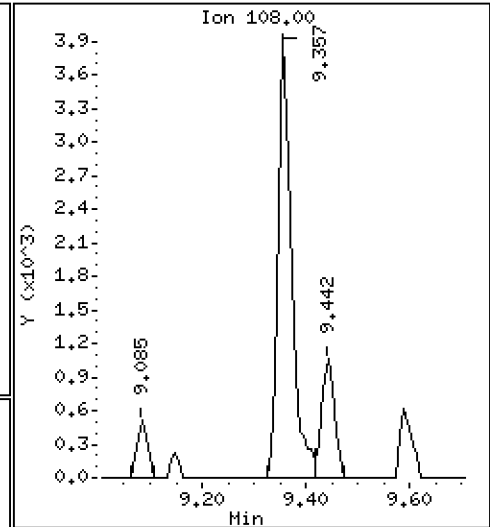
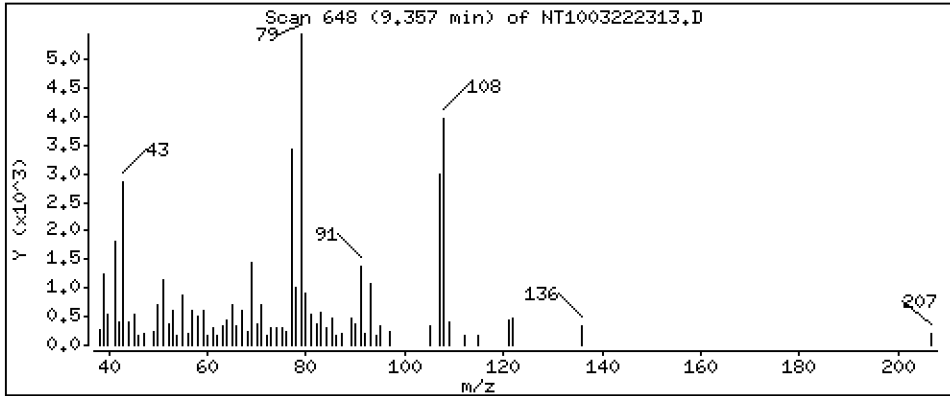
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.2117 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

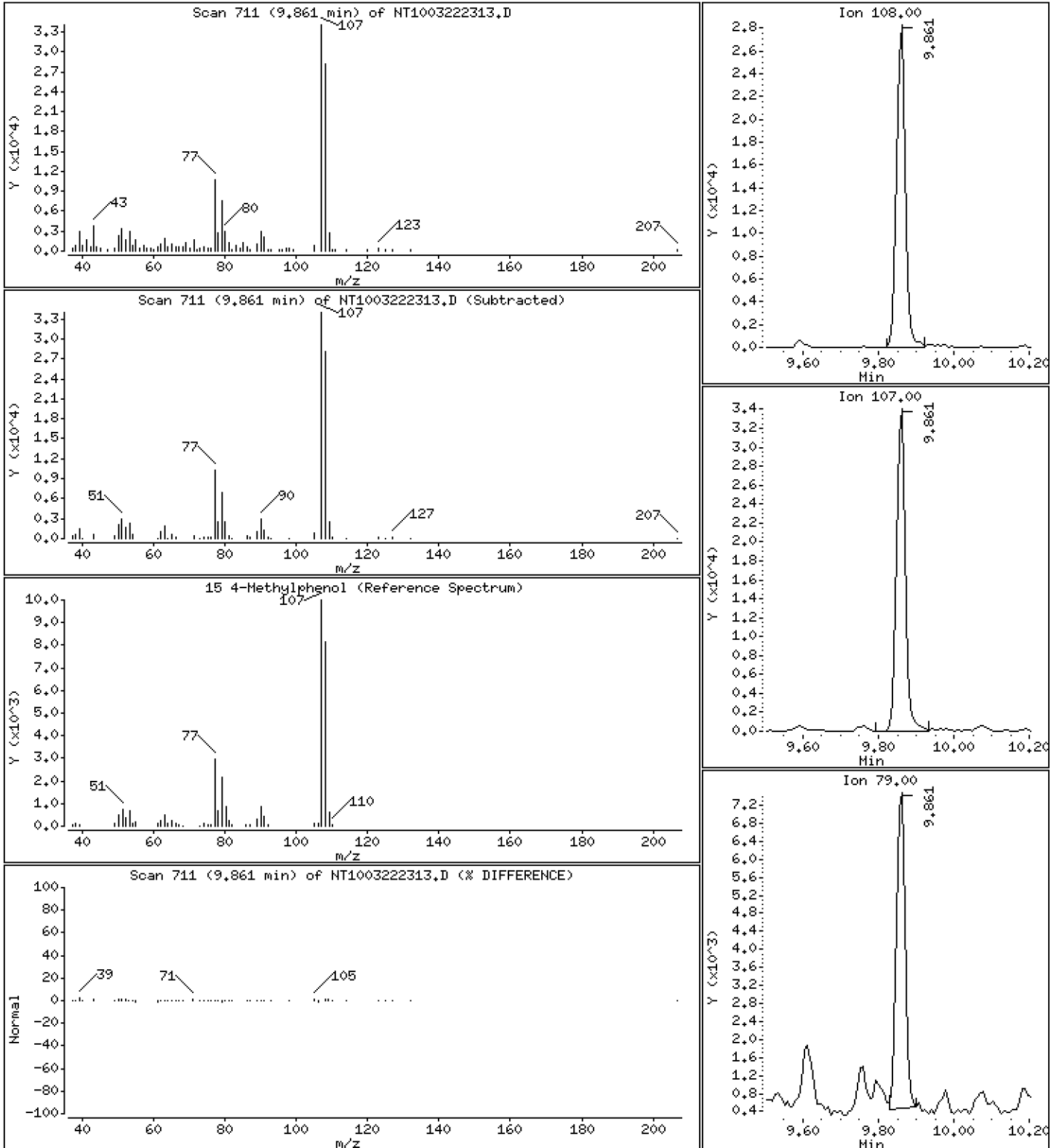
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.8404 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

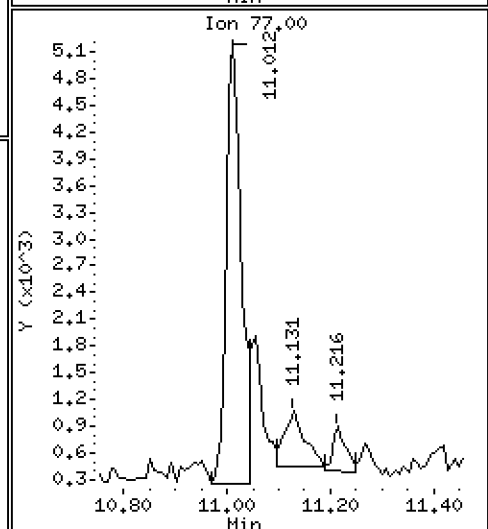
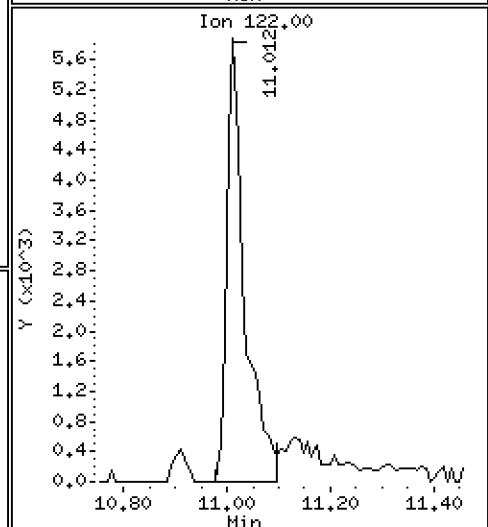
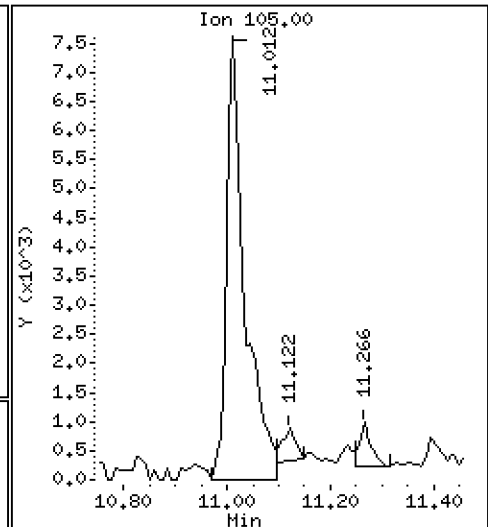
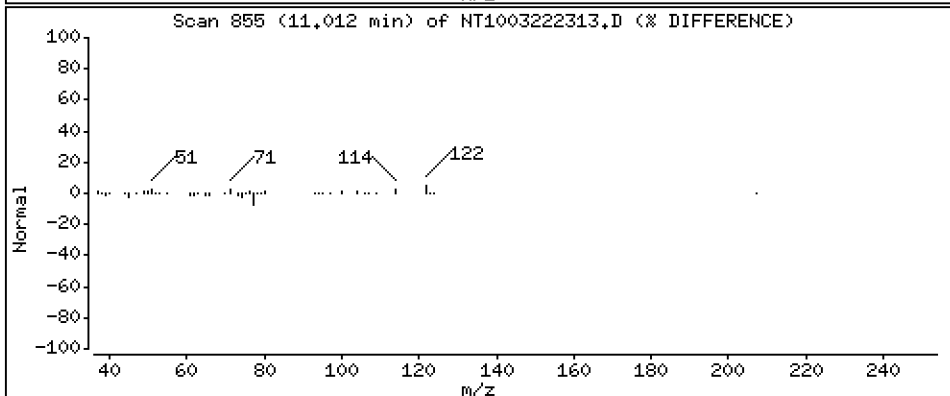
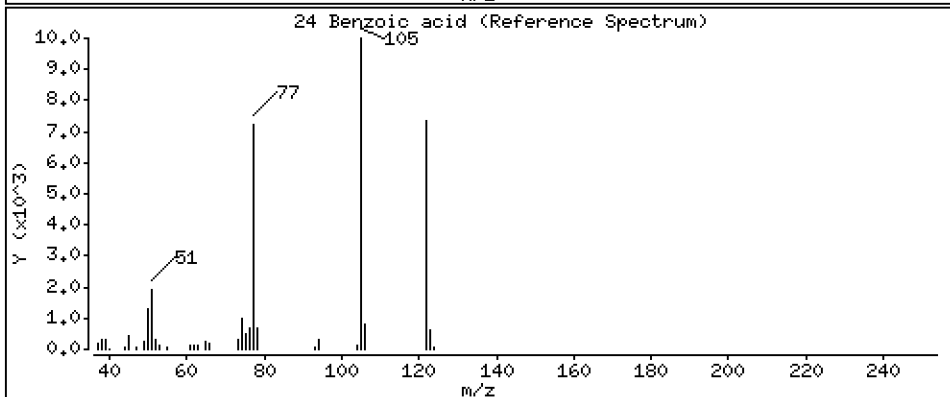
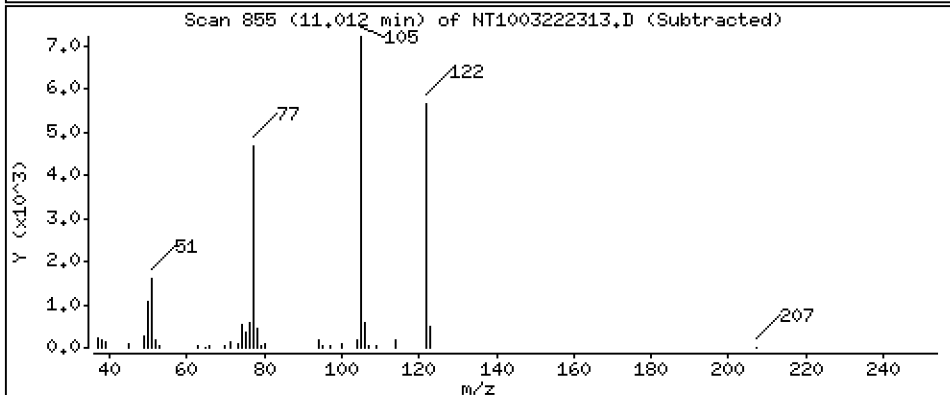
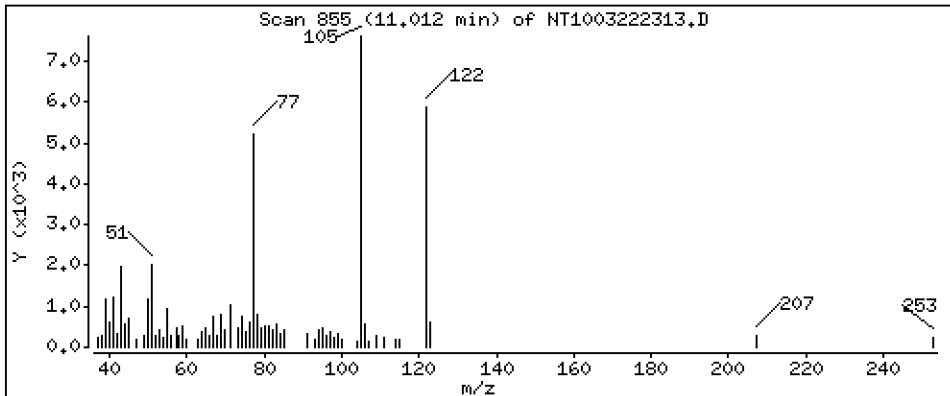
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,6233 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

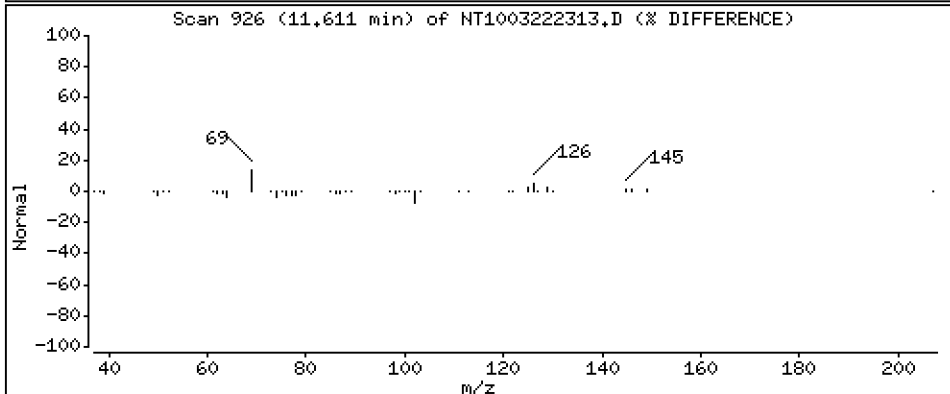
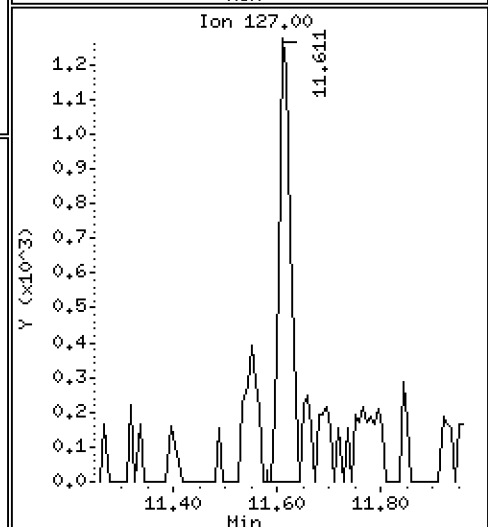
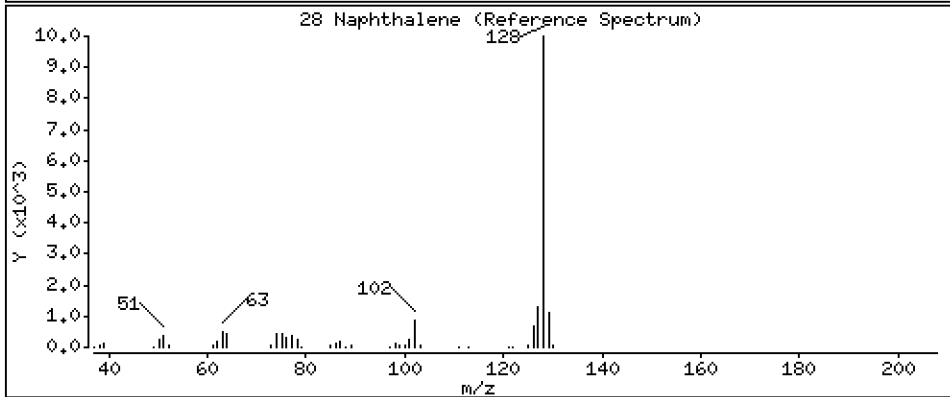
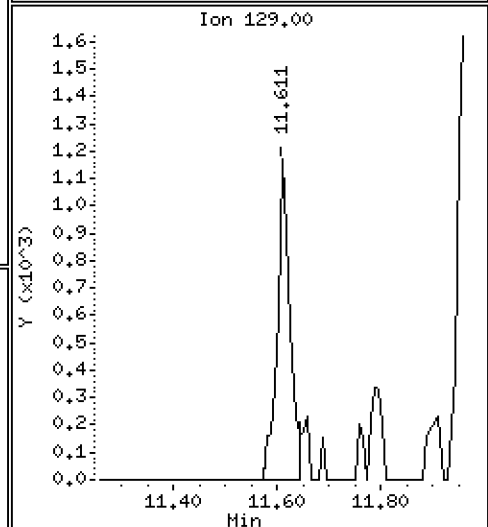
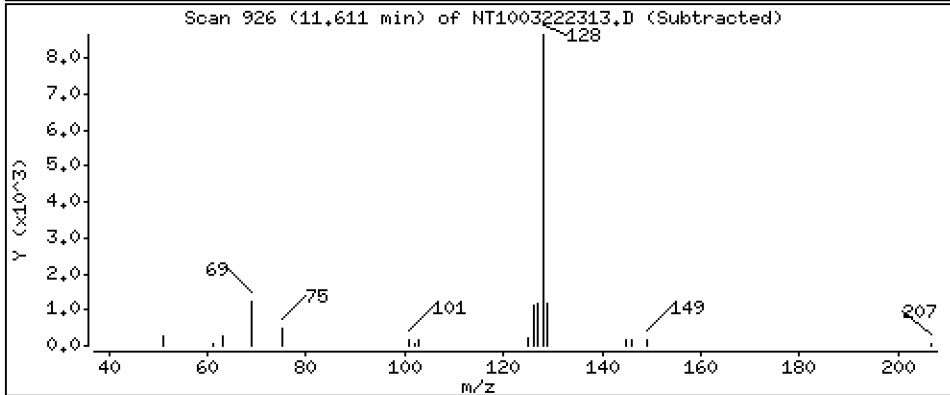
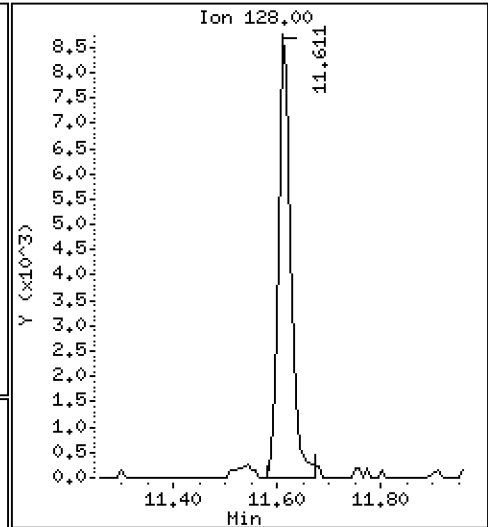
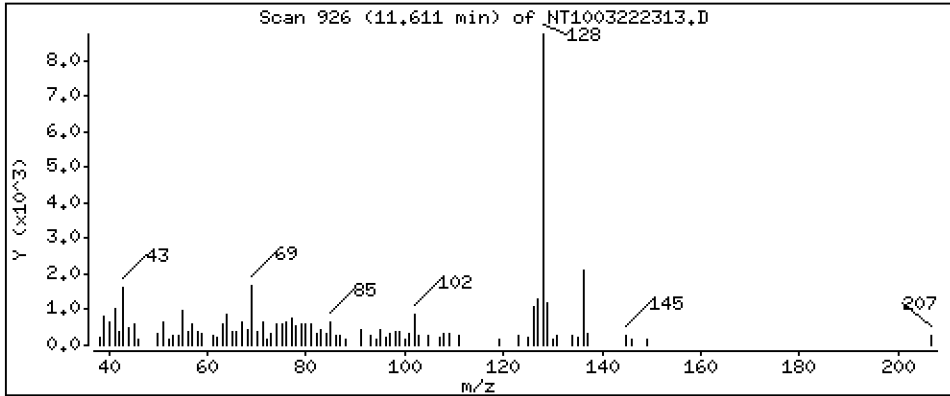
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 0.09169 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

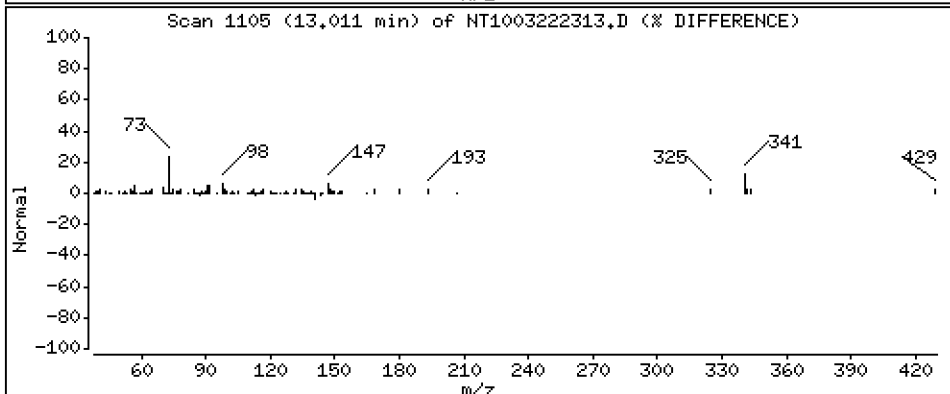
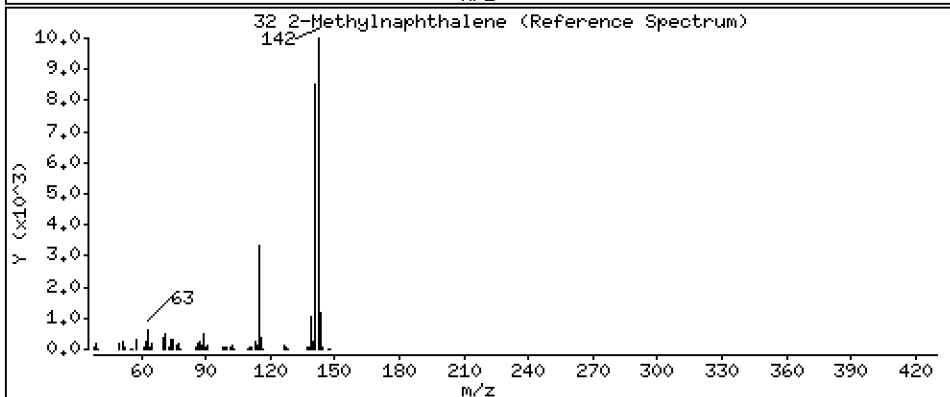
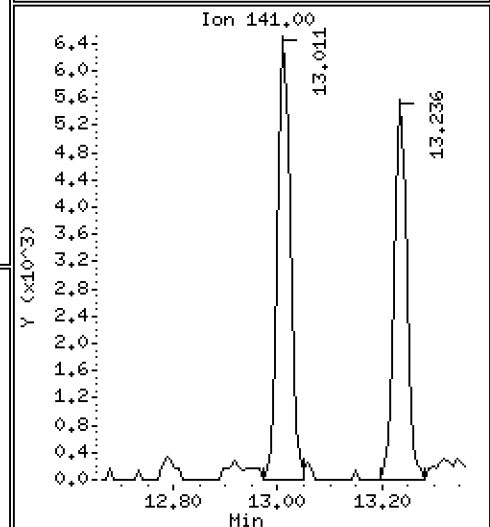
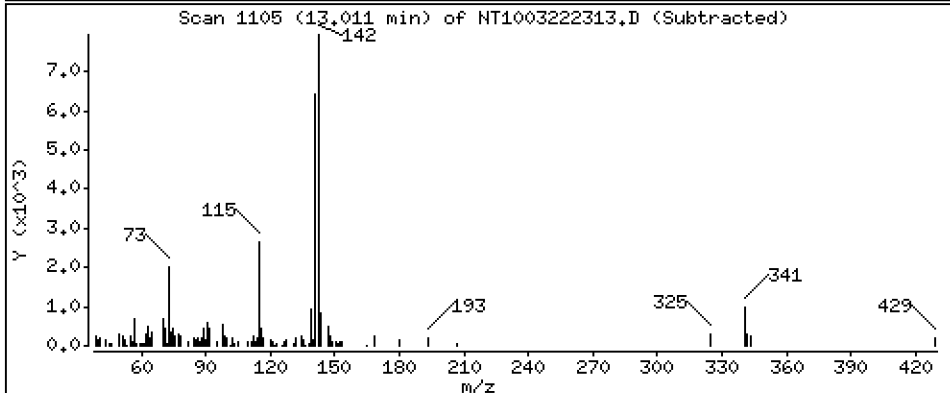
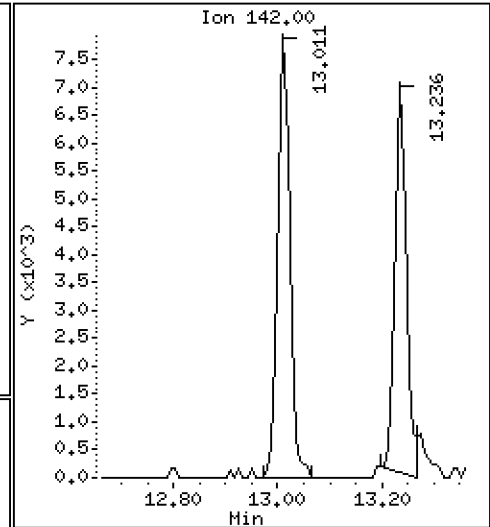
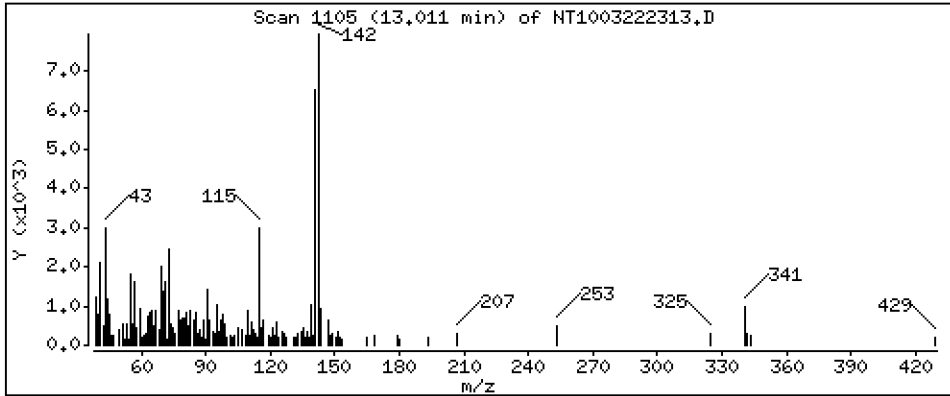
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1058 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

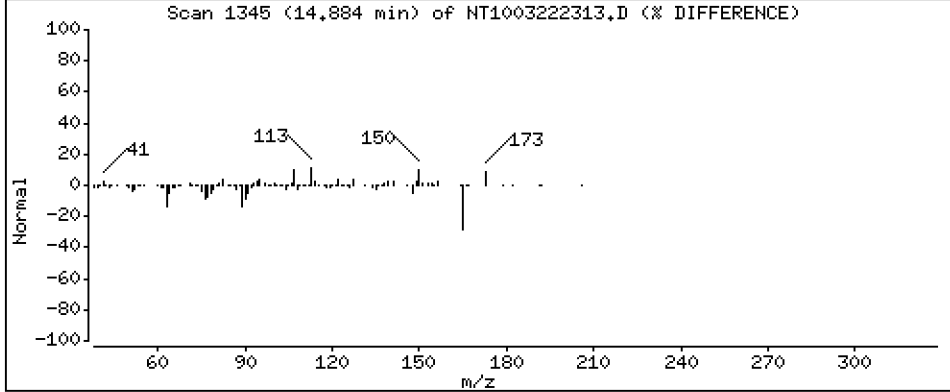
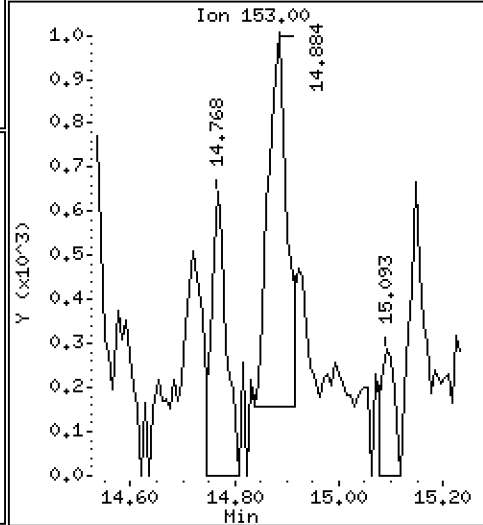
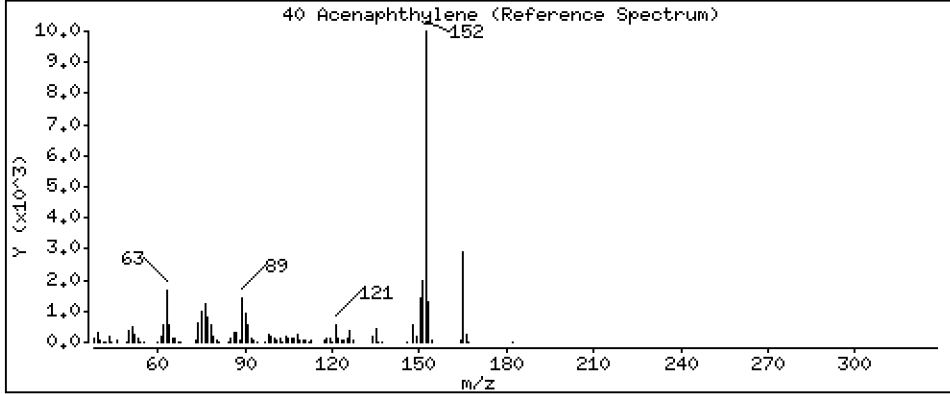
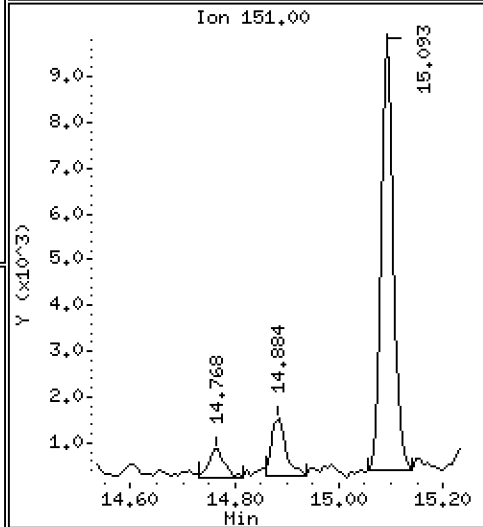
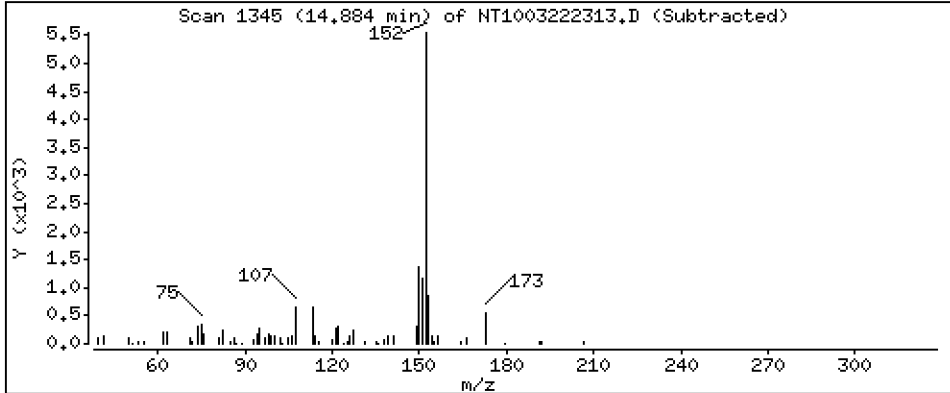
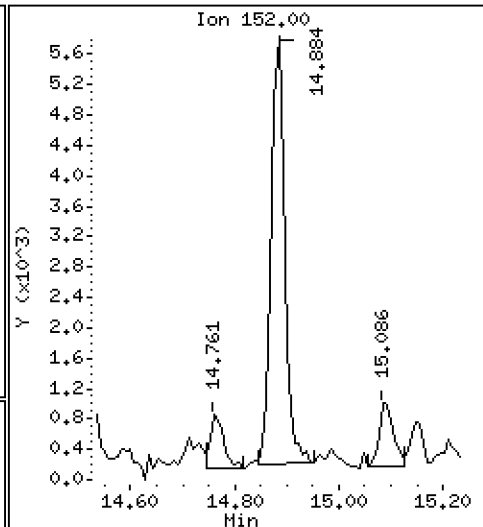
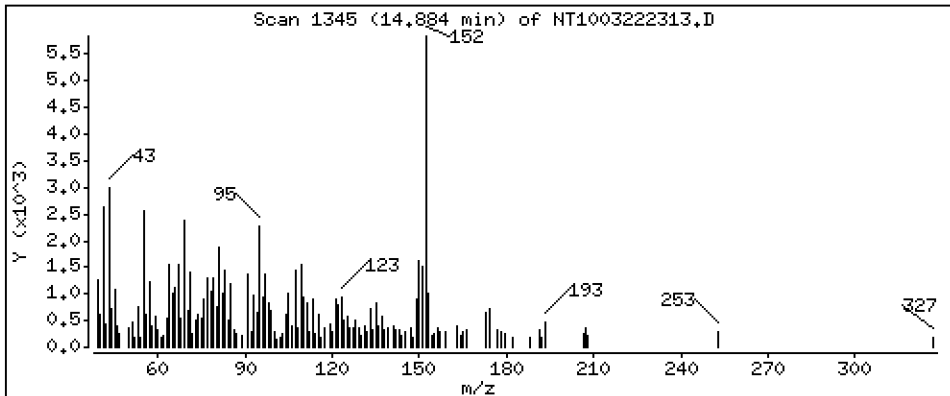
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 0.05750 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

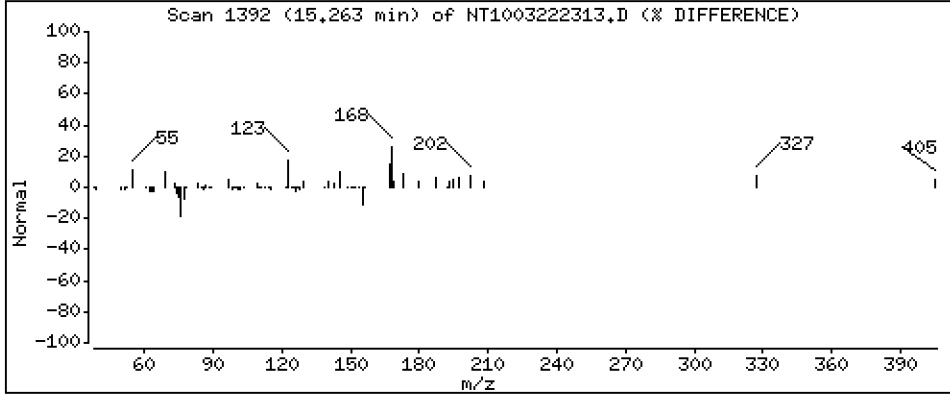
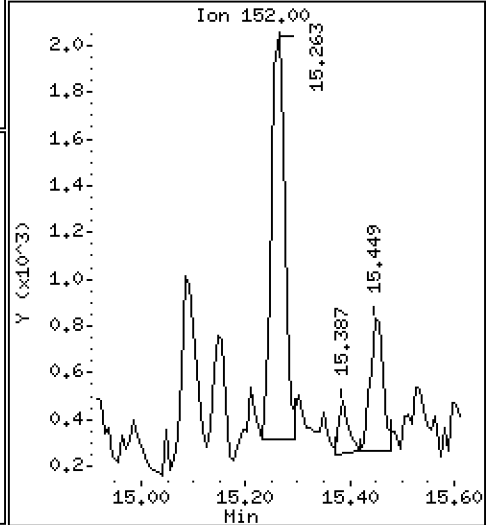
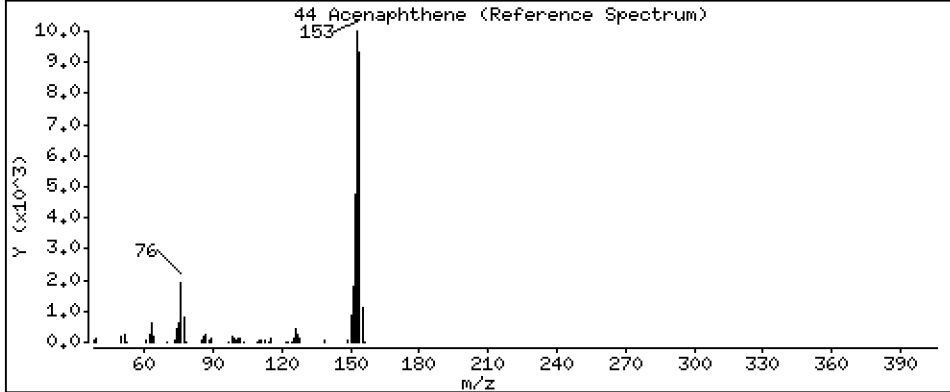
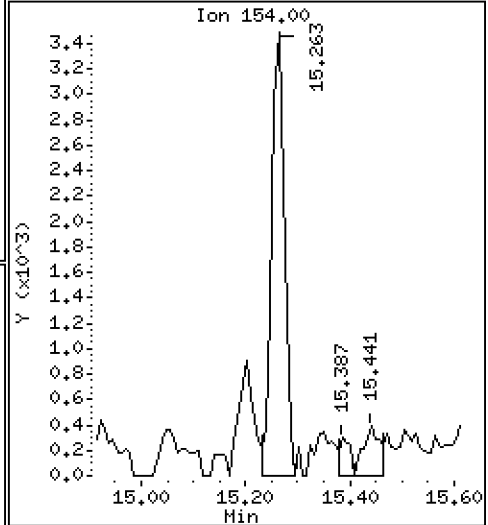
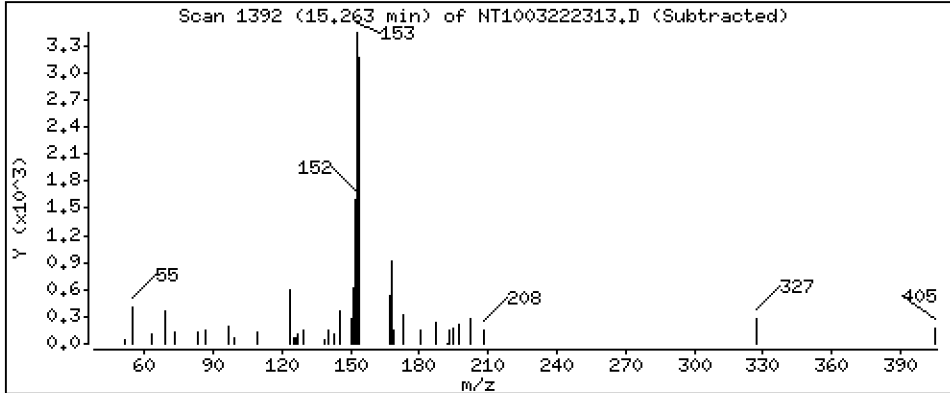
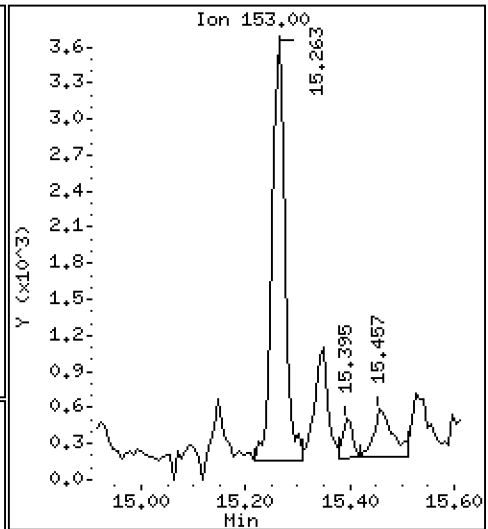
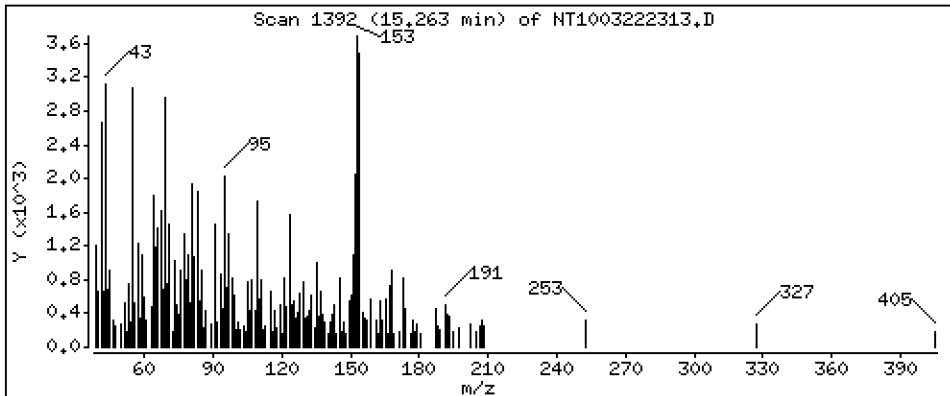
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,05458 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

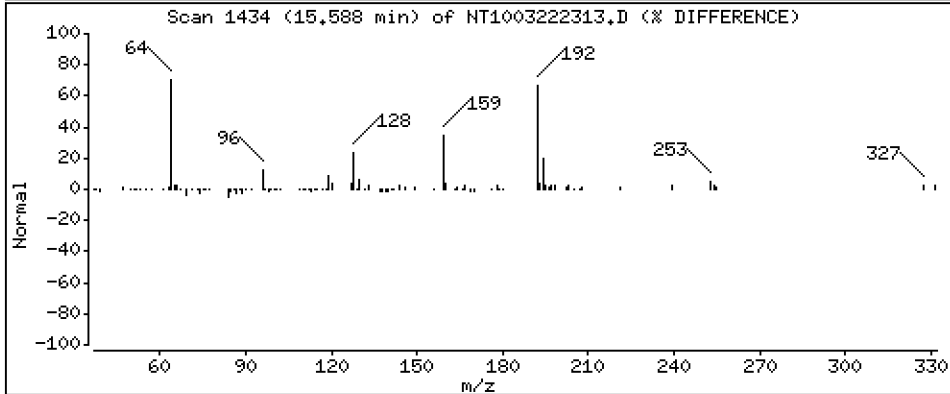
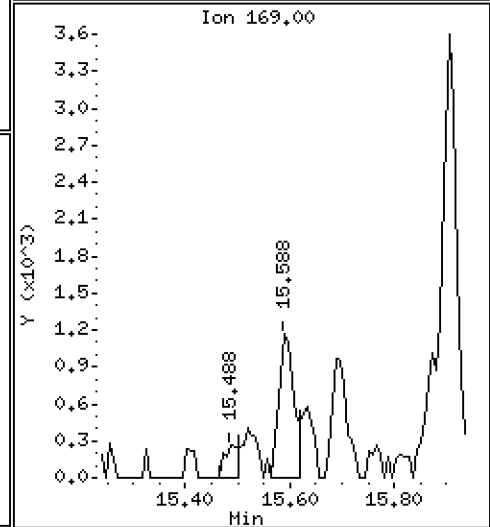
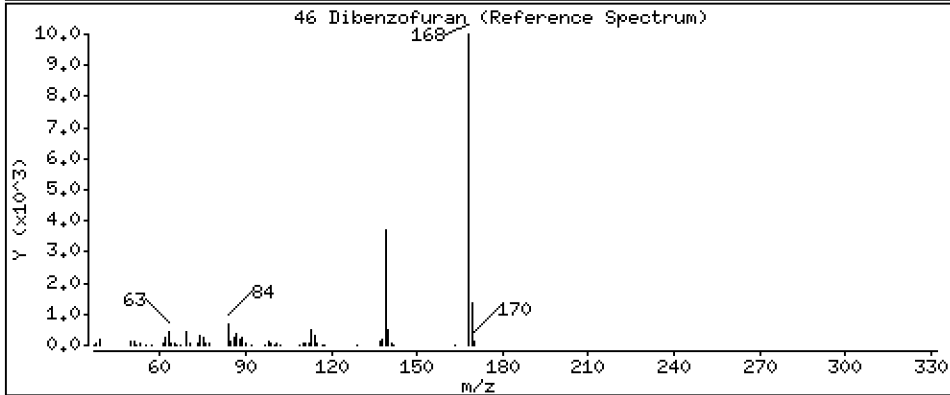
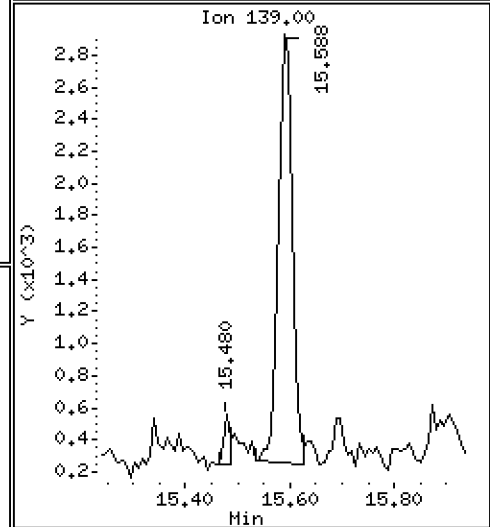
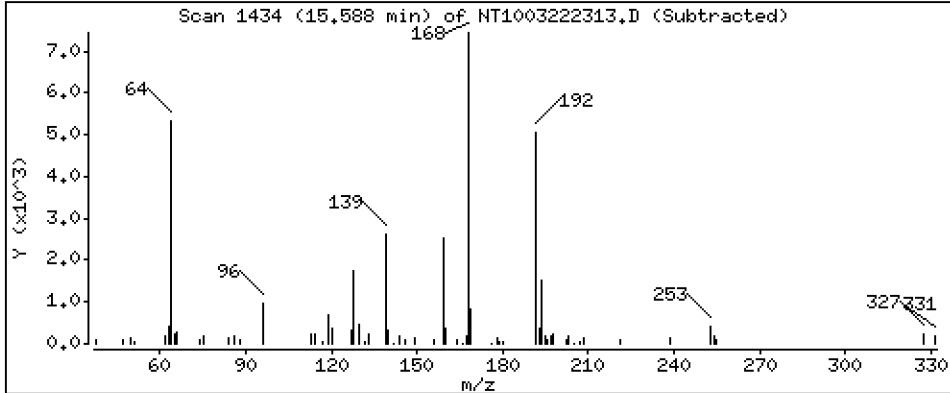
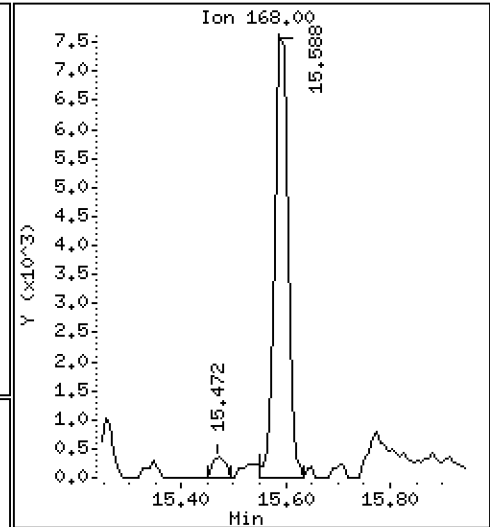
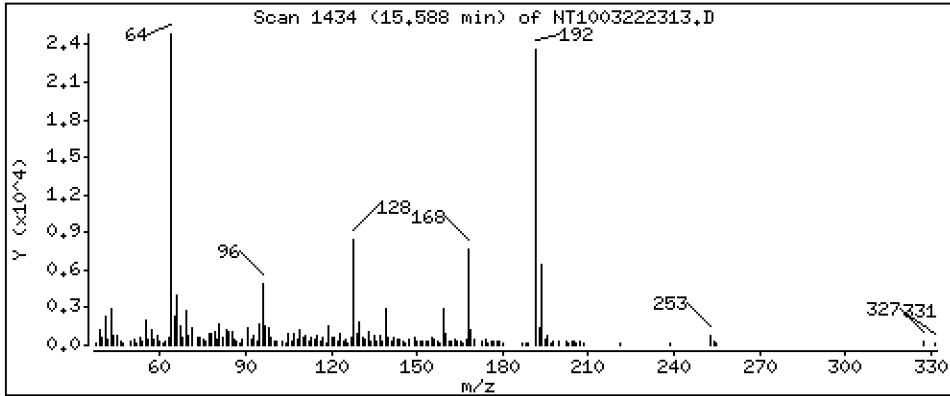
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,08342 ug/mL





Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

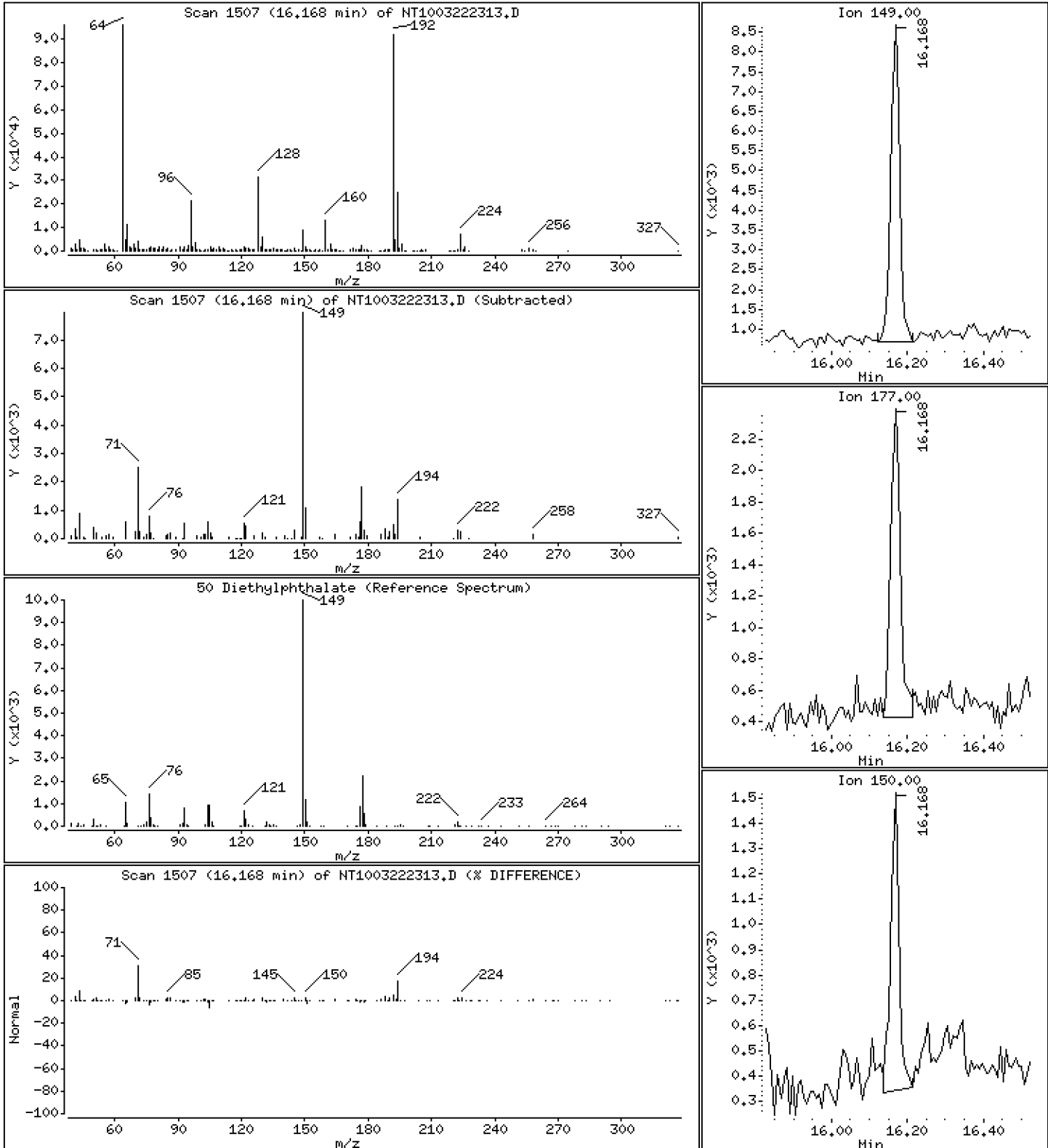
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,1340 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

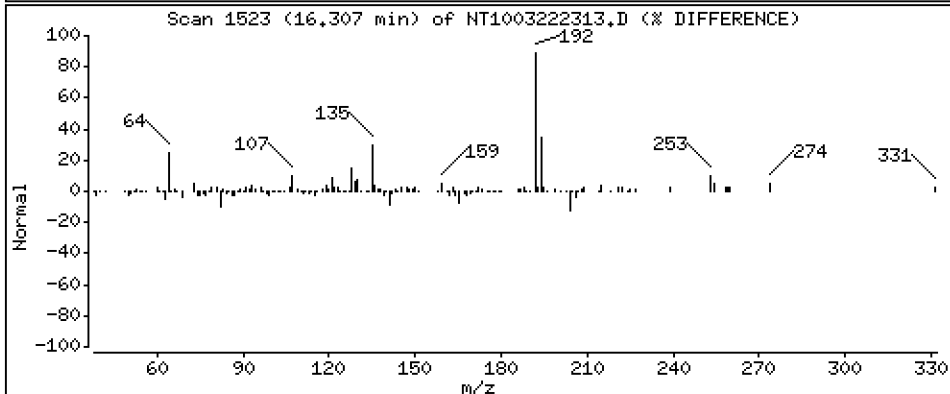
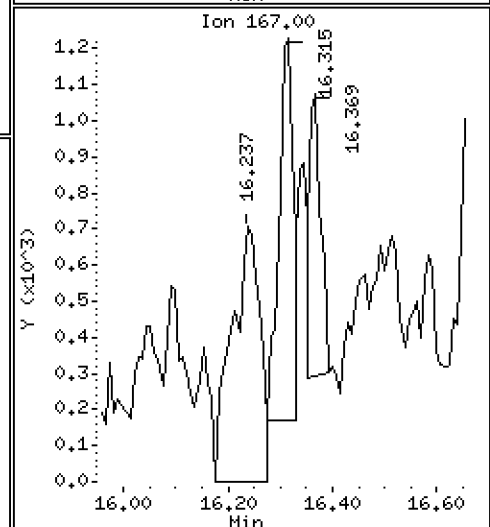
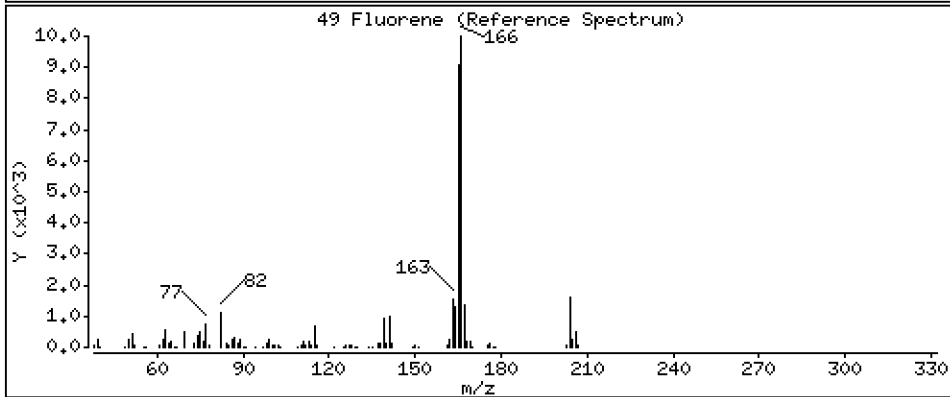
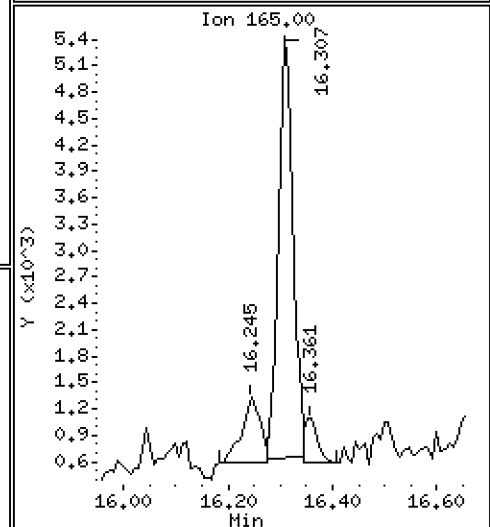
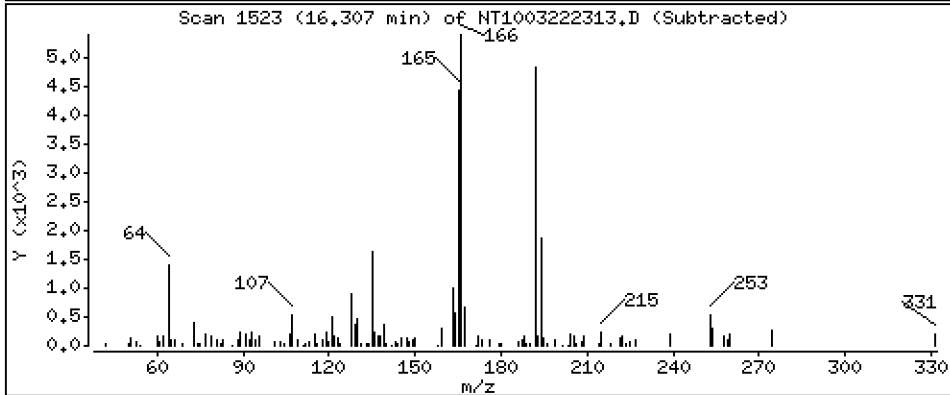
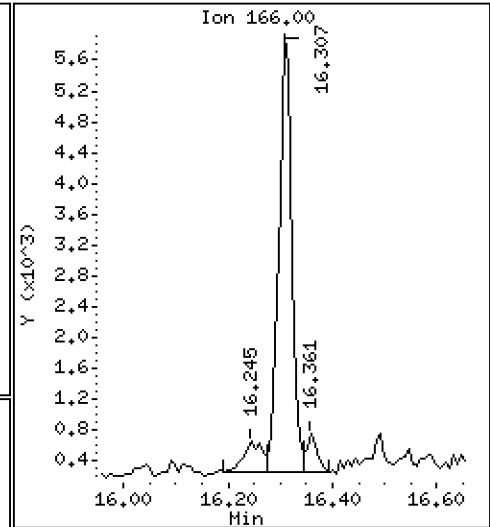
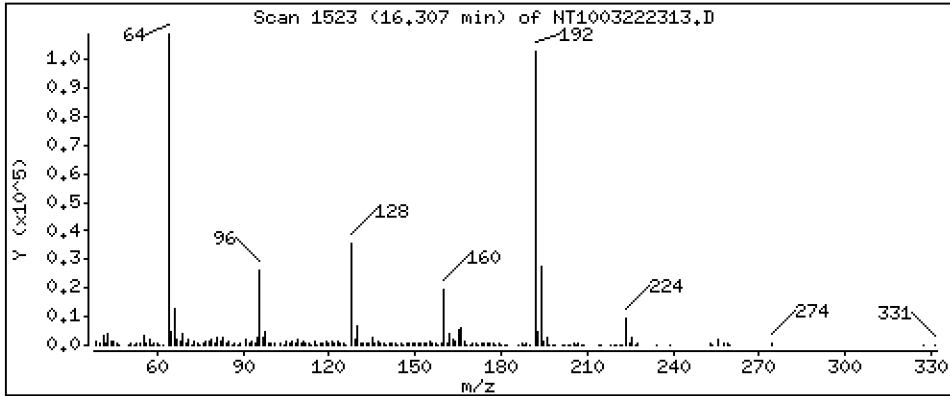
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 0.08133 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

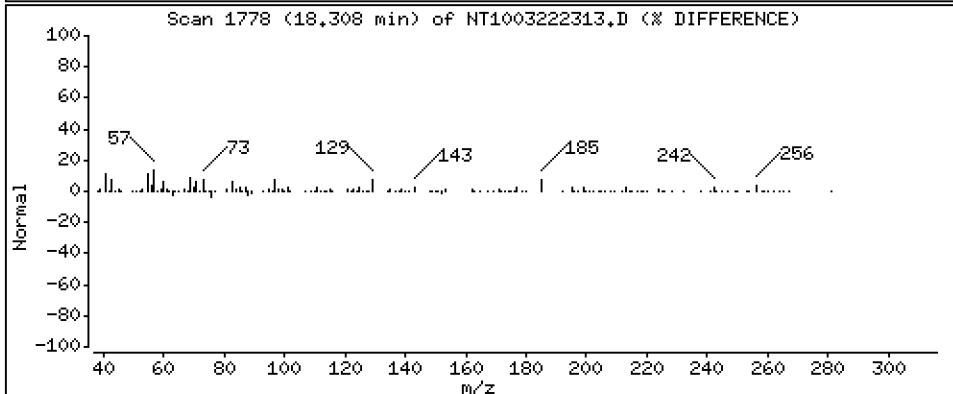
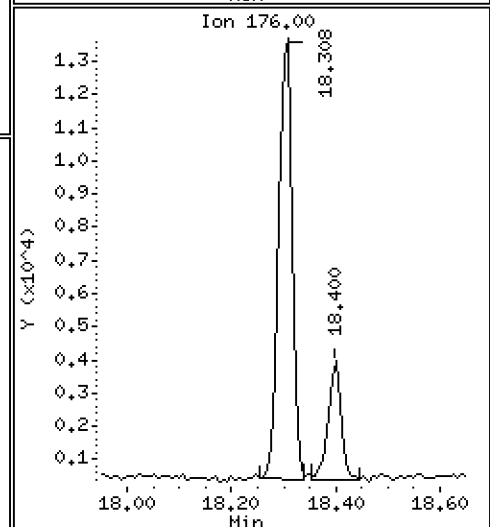
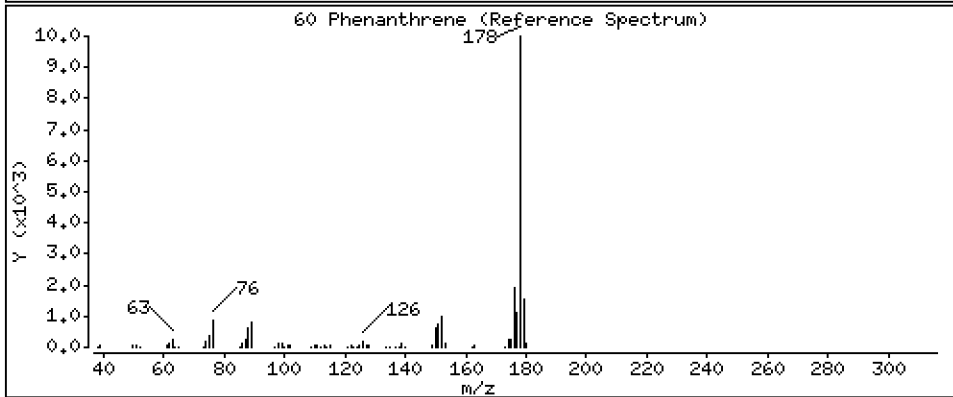
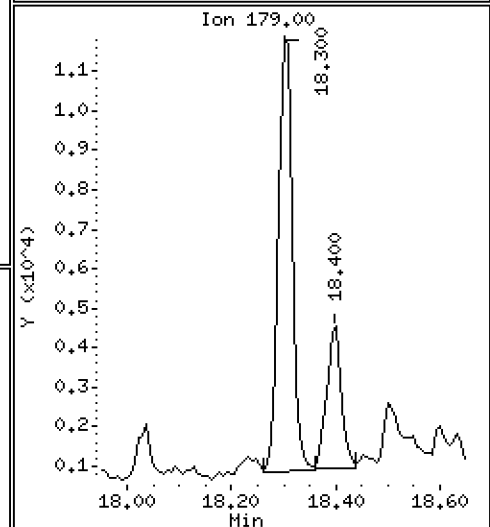
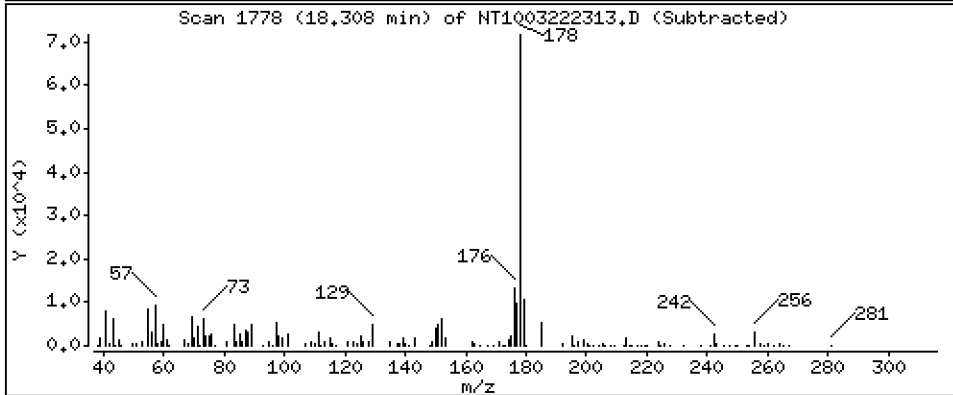
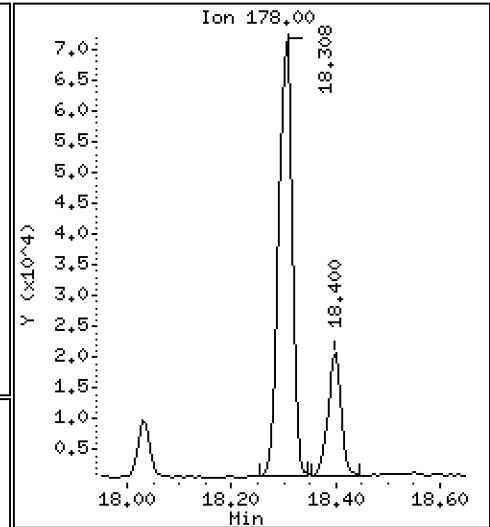
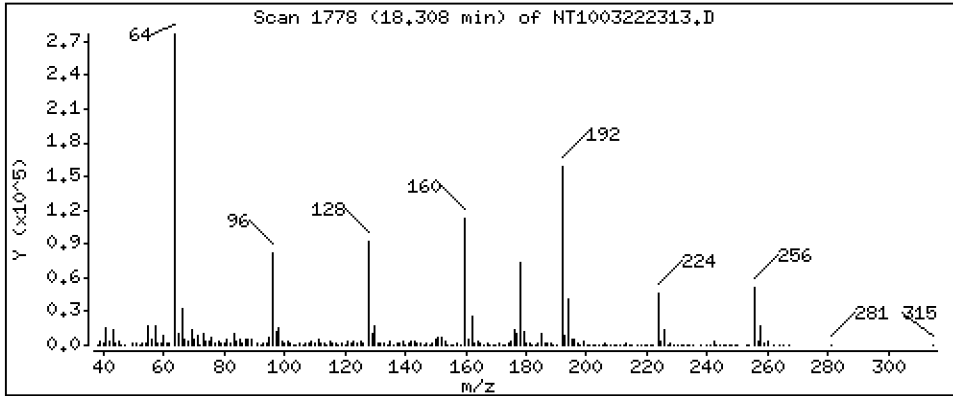
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,7068 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

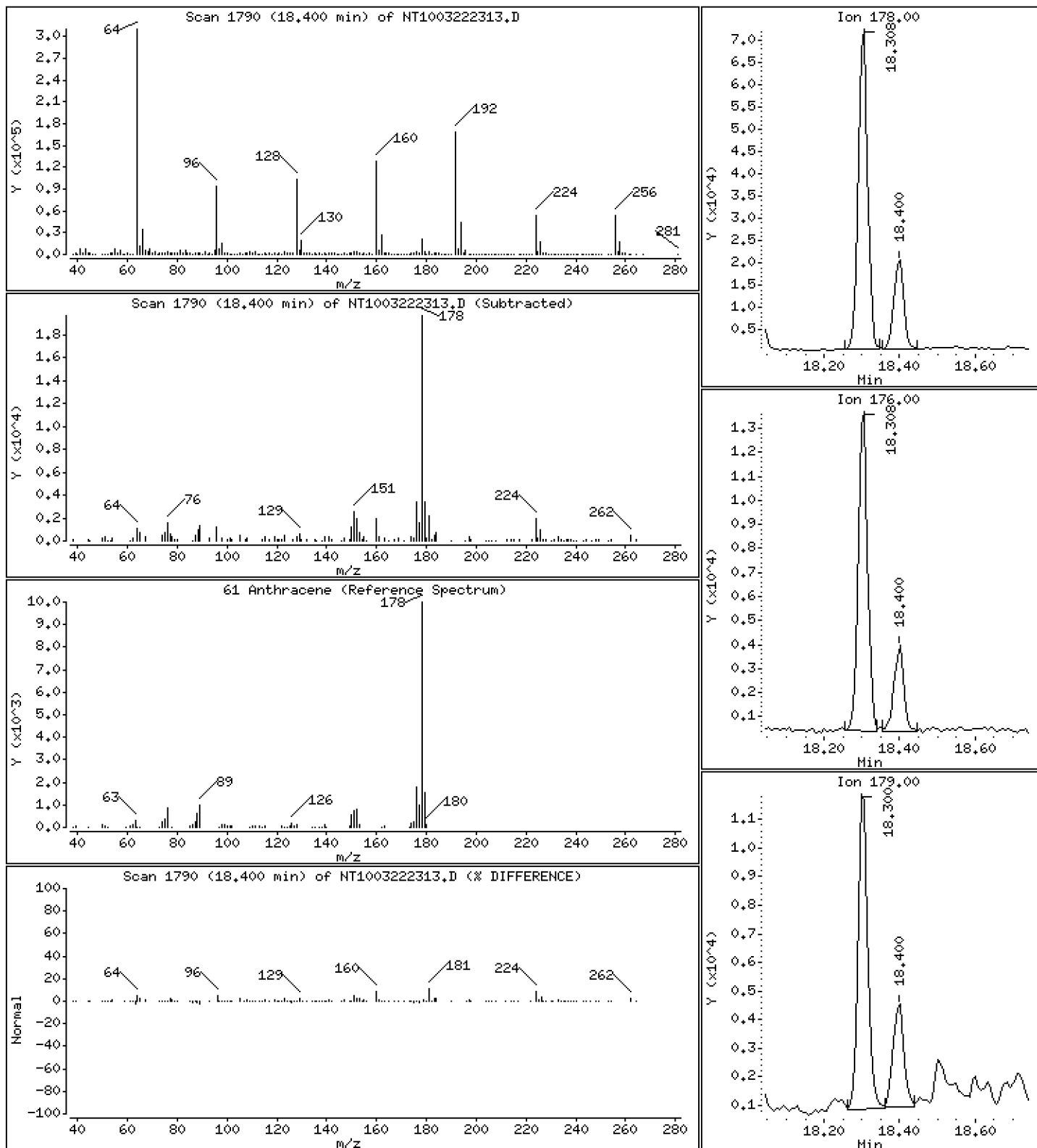
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2099 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

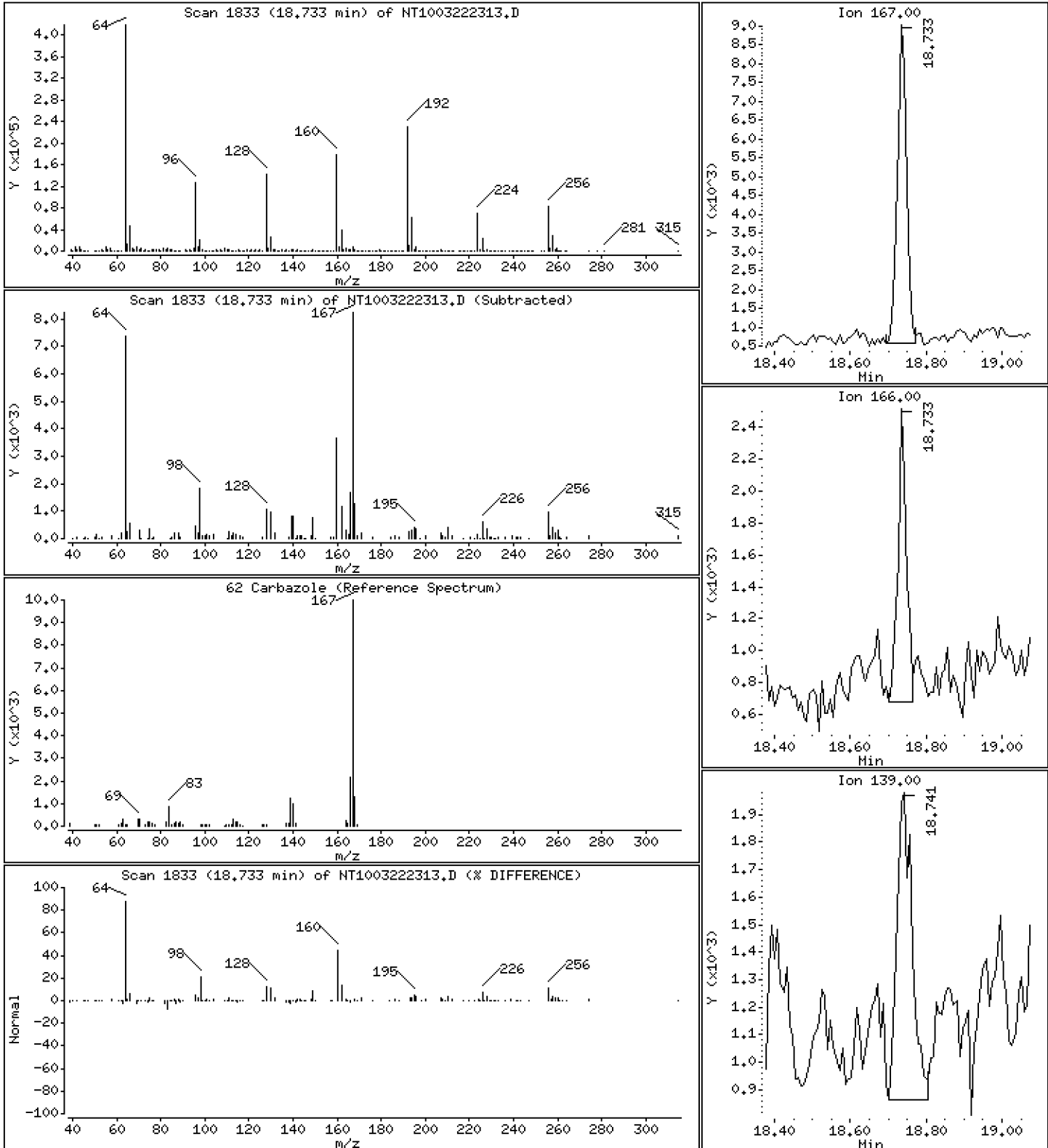
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,09309 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

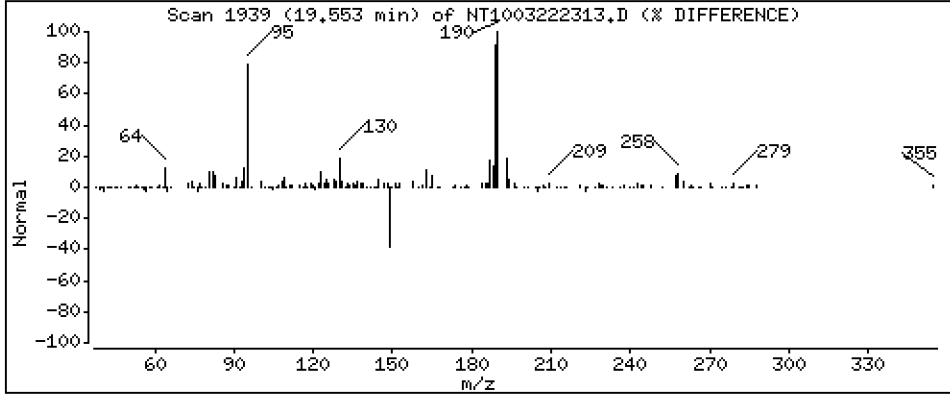
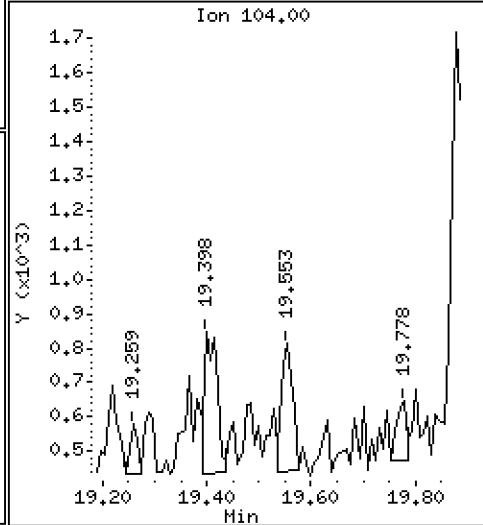
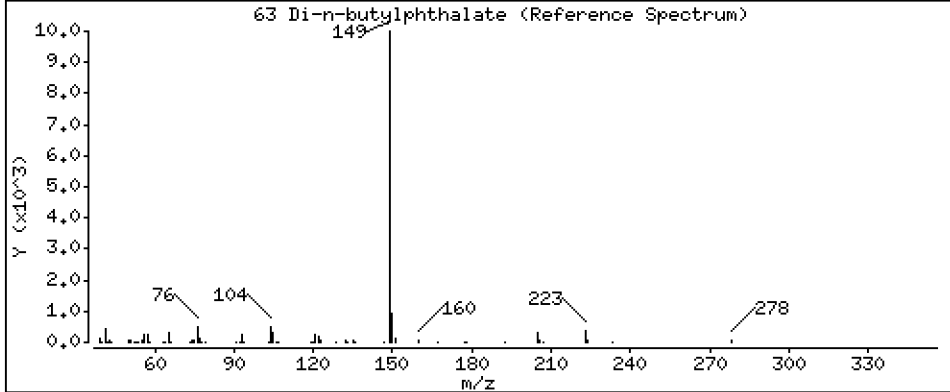
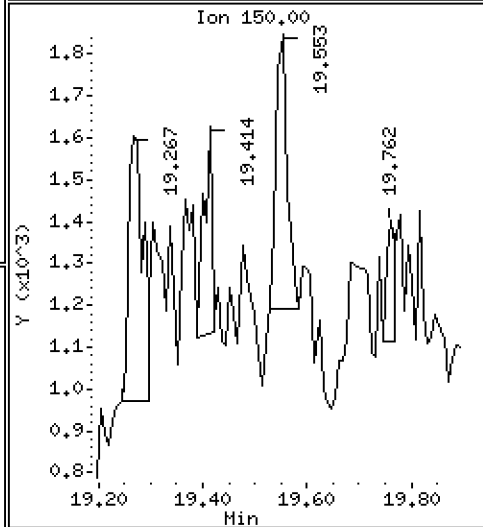
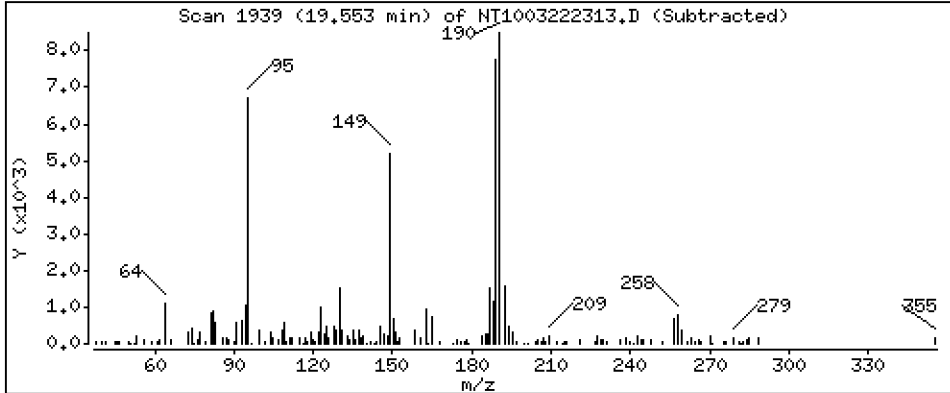
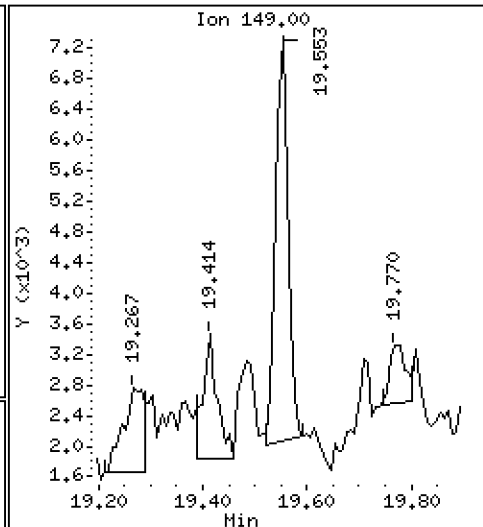
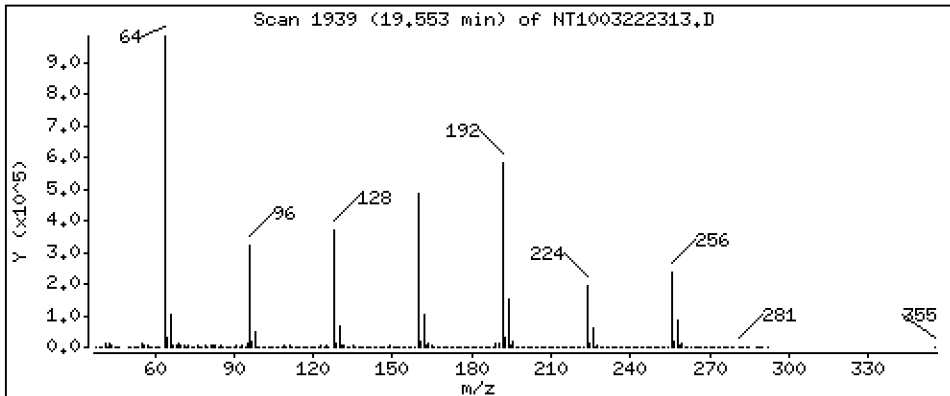
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,04090 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

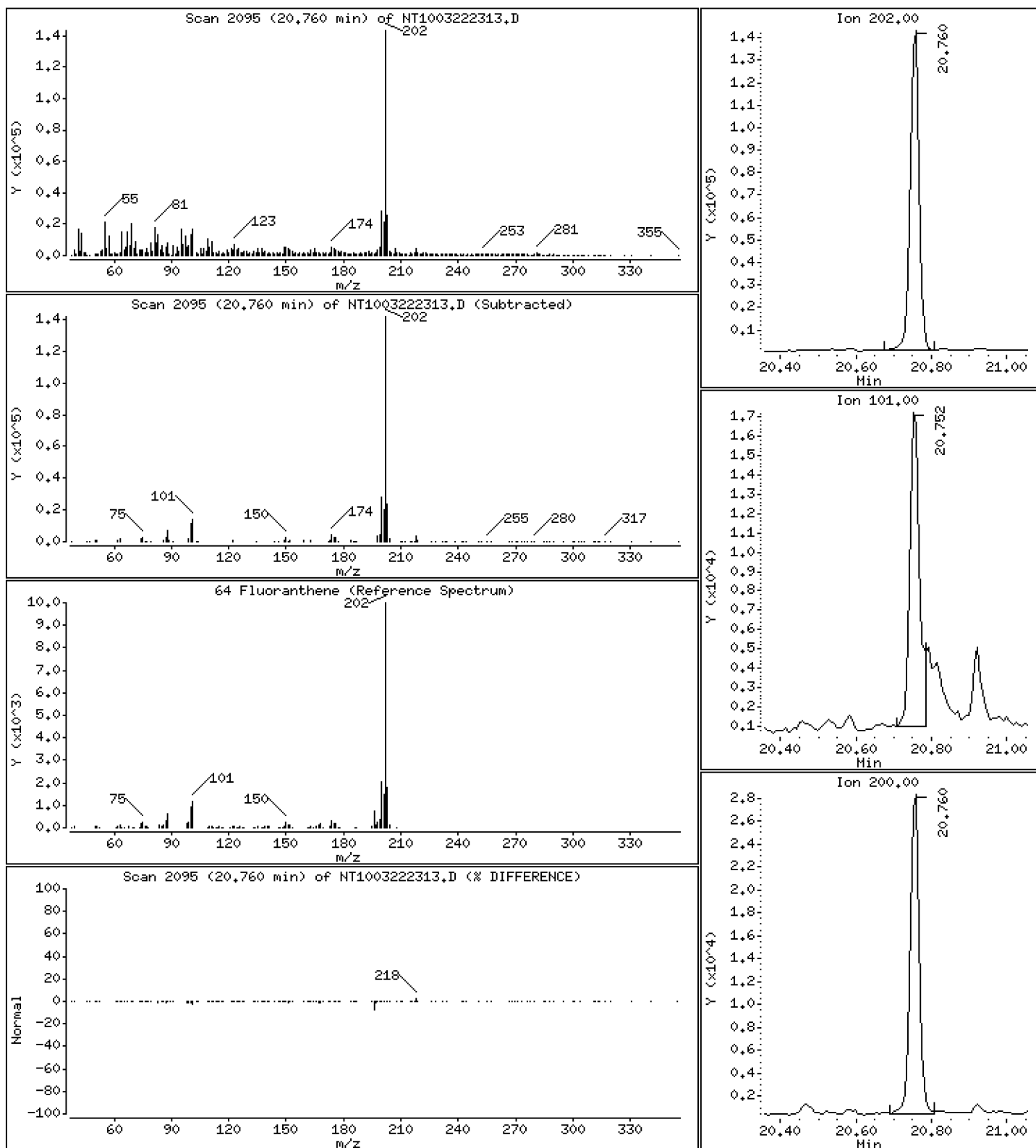
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 1,051 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

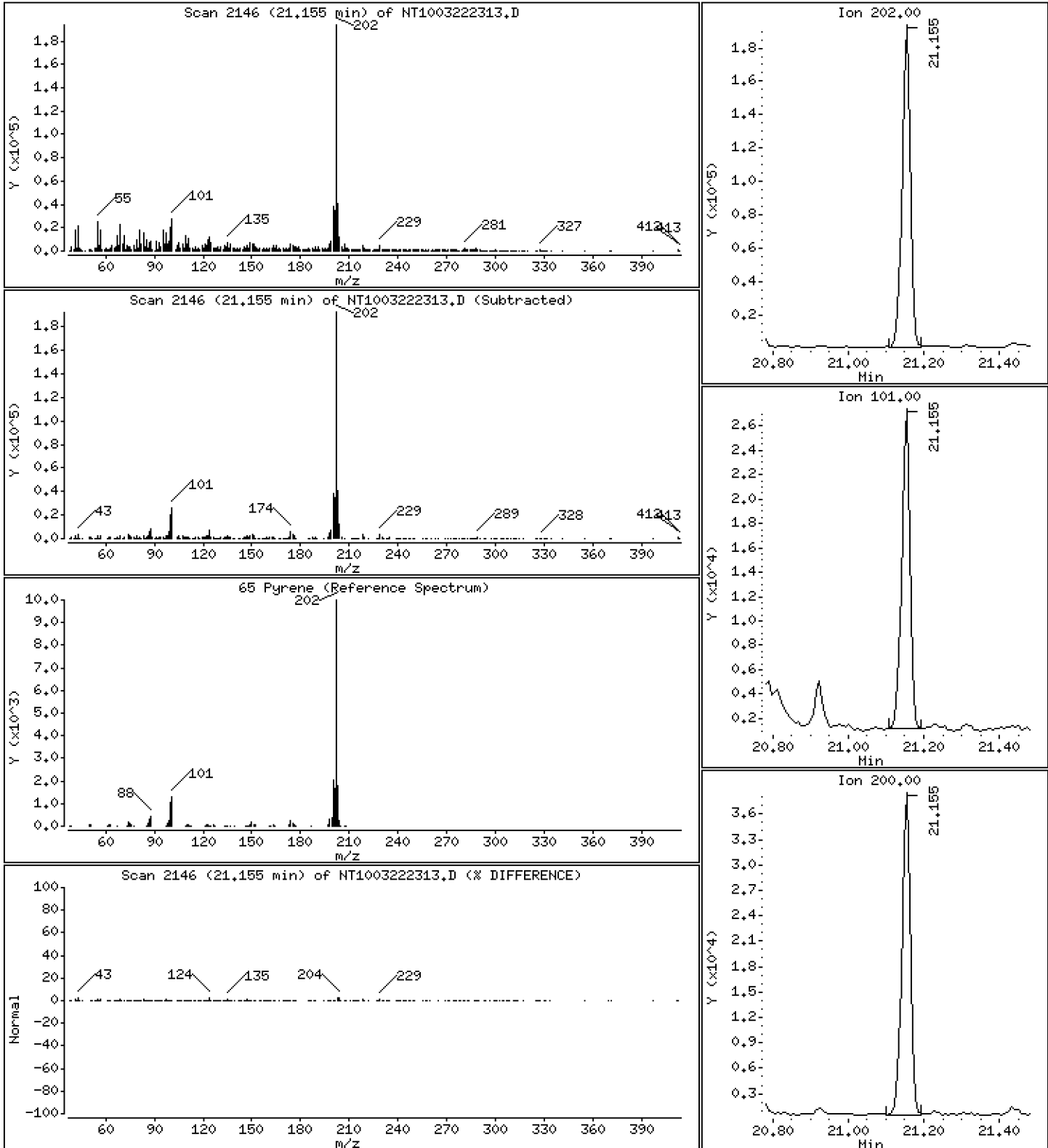
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 1,236 ug/mL





Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

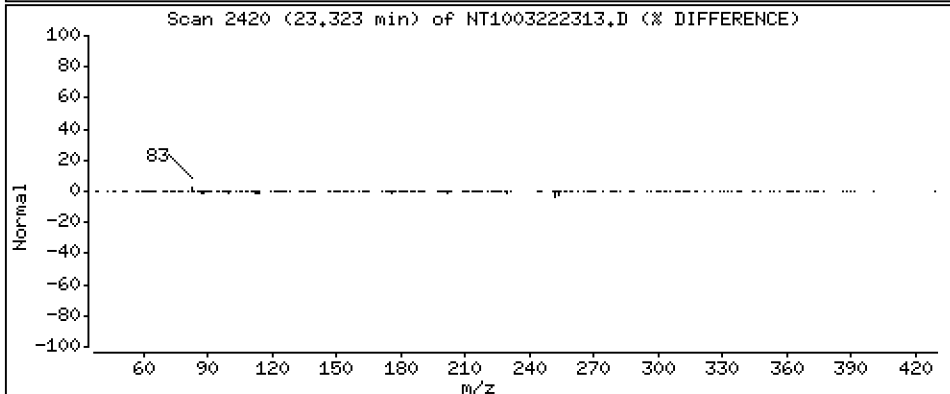
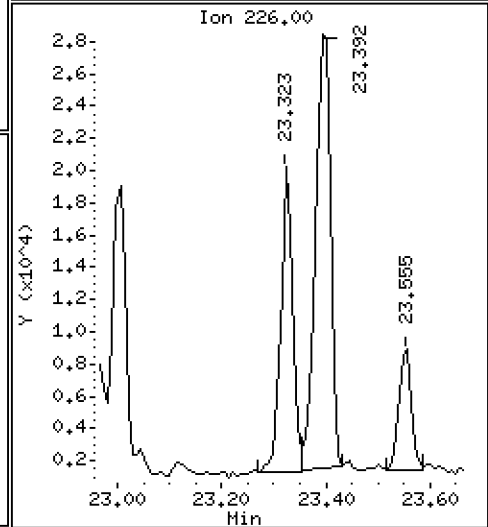
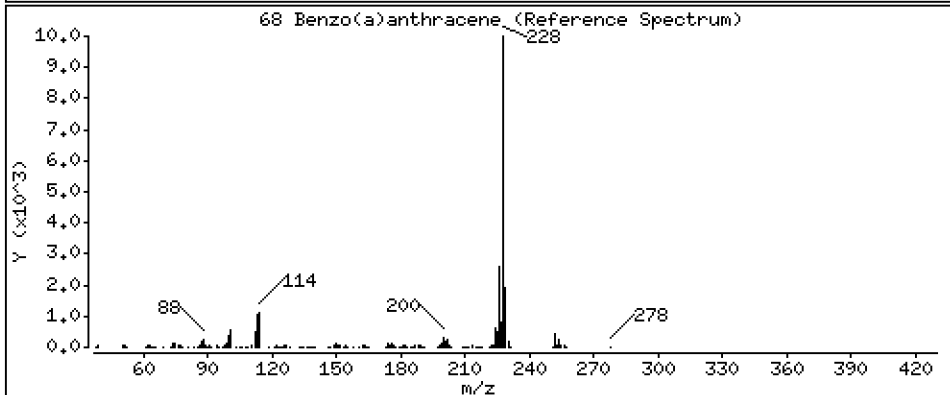
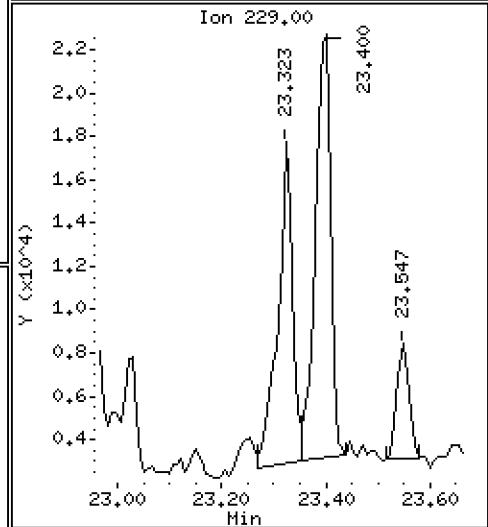
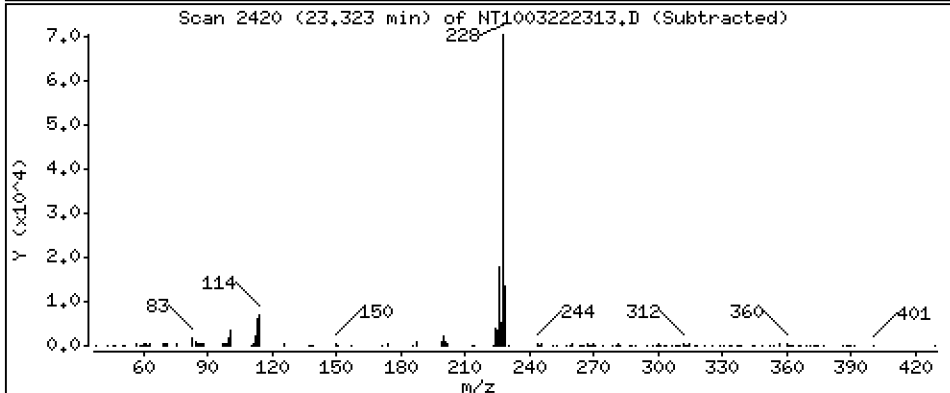
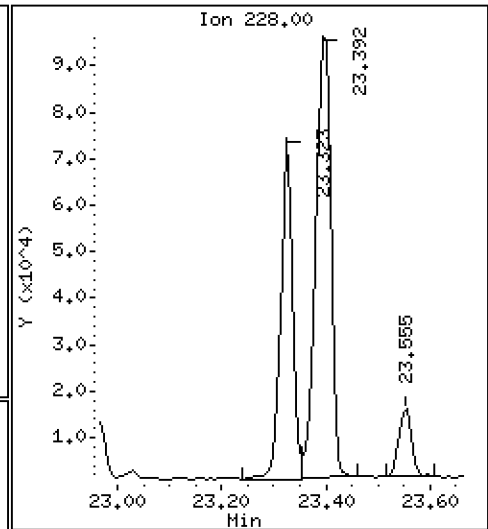
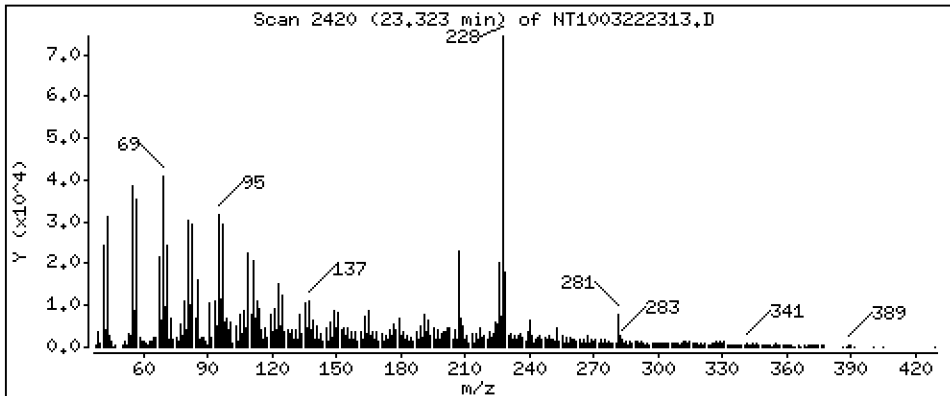
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,5669 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

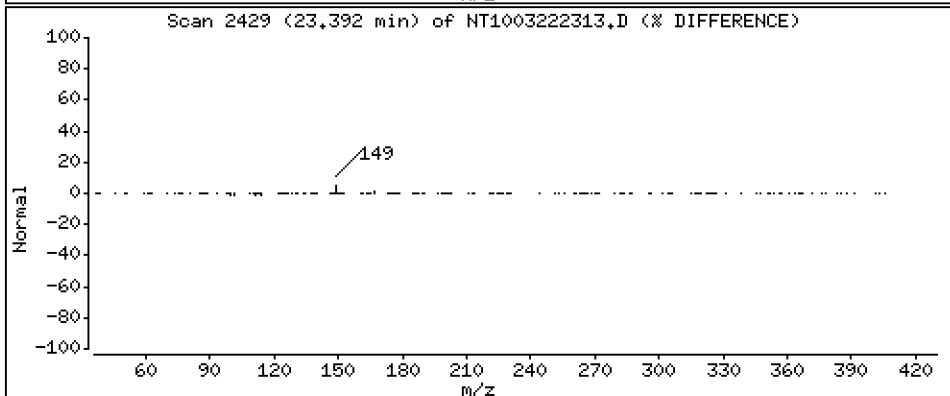
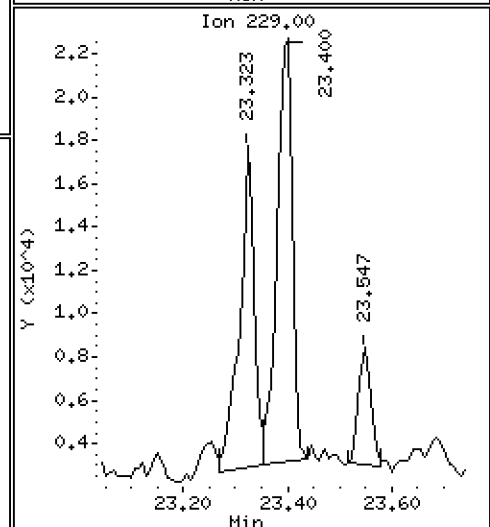
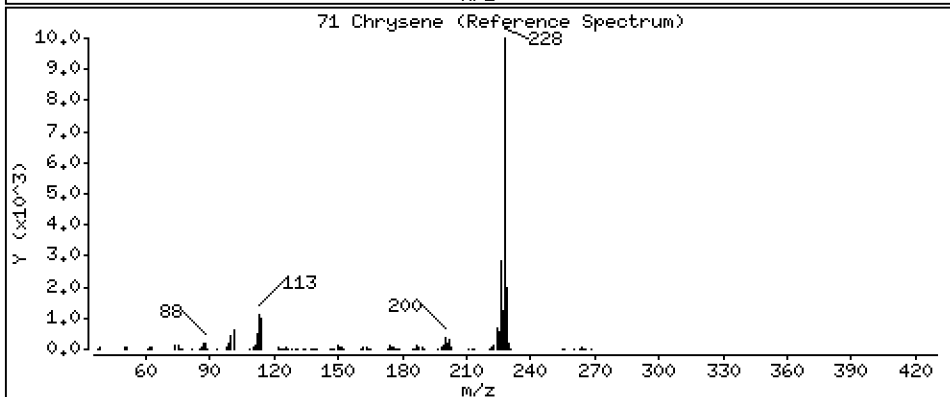
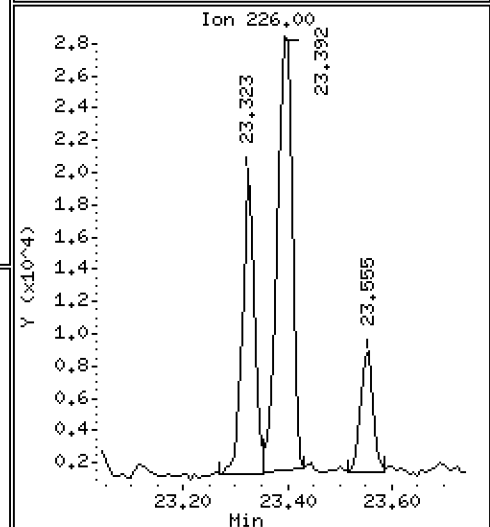
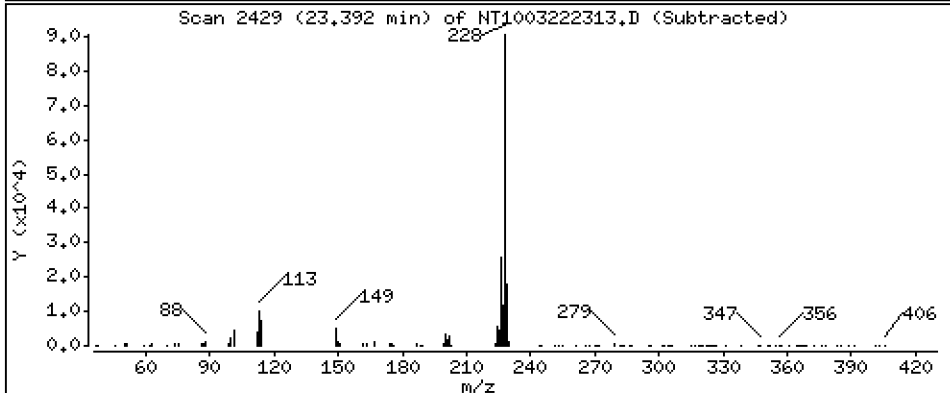
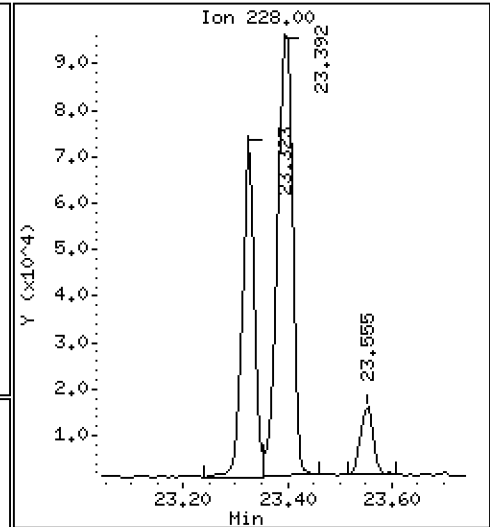
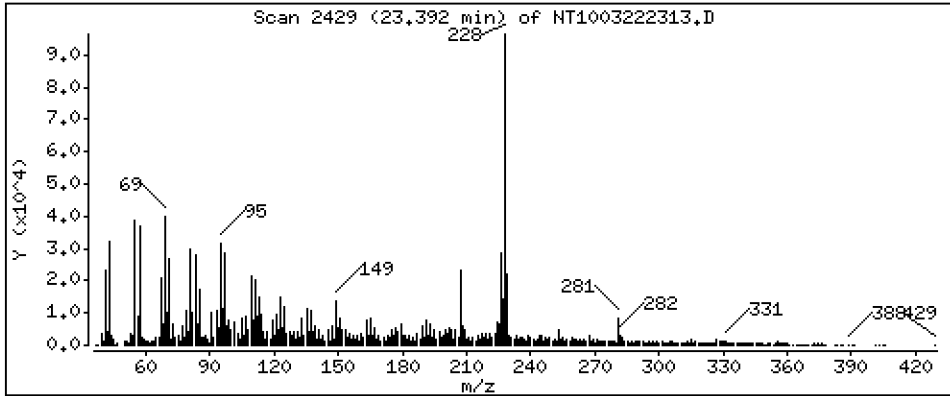
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,9446 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

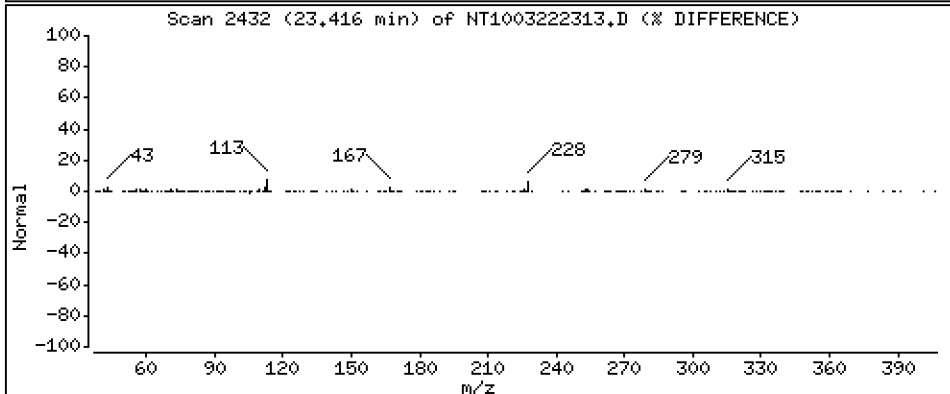
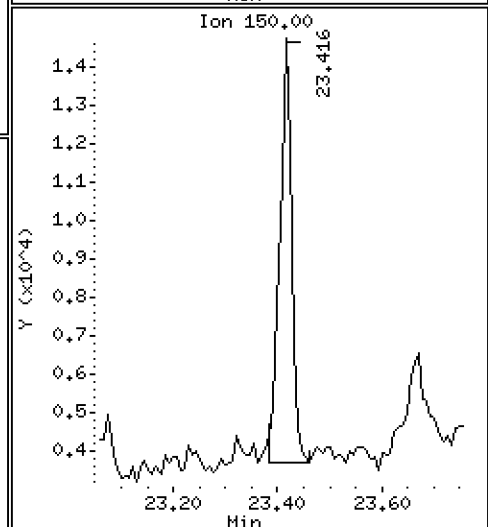
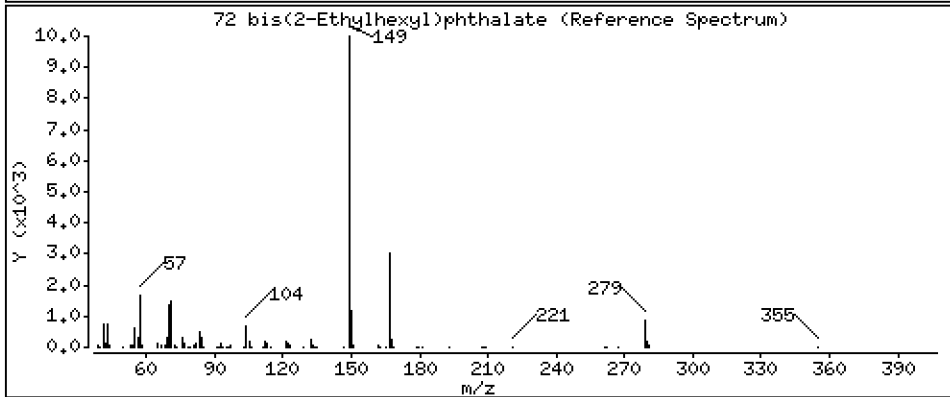
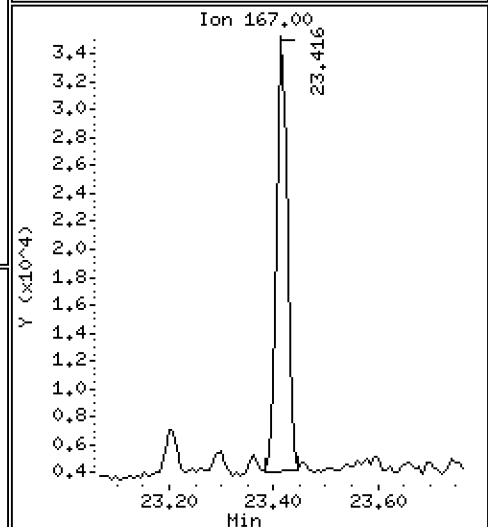
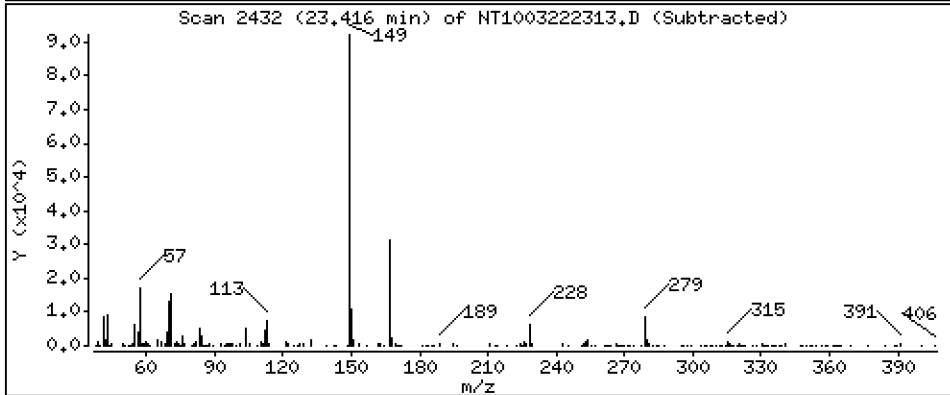
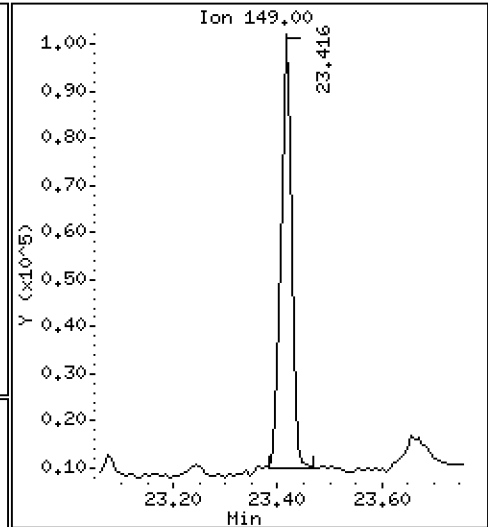
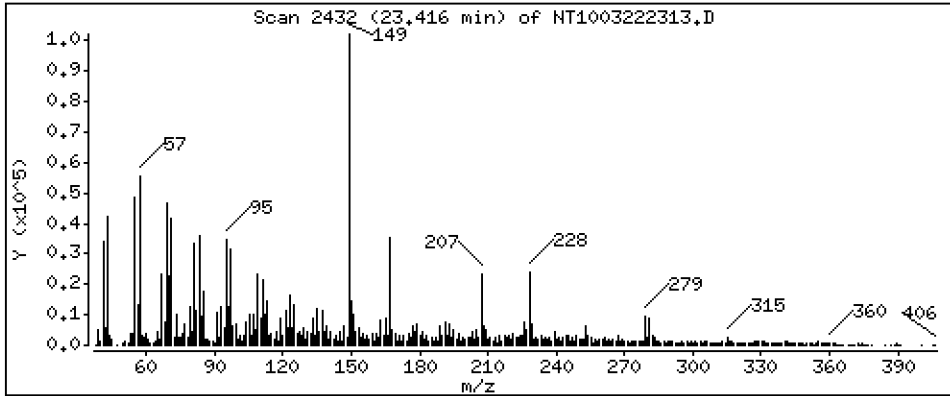
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,8893 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

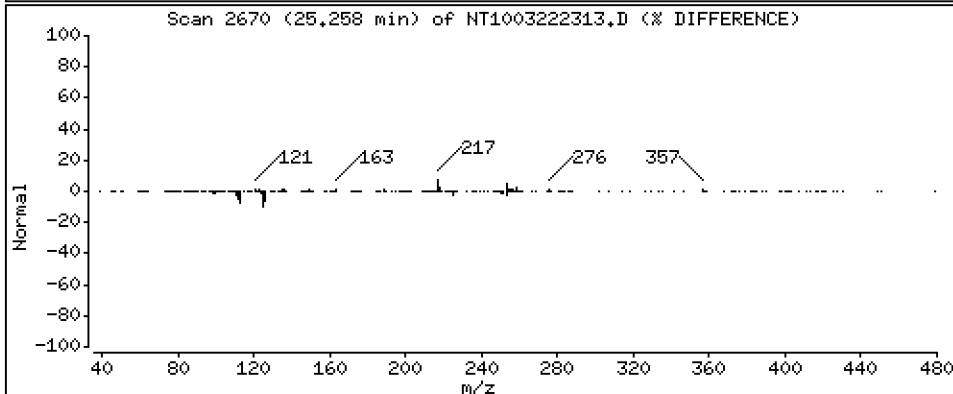
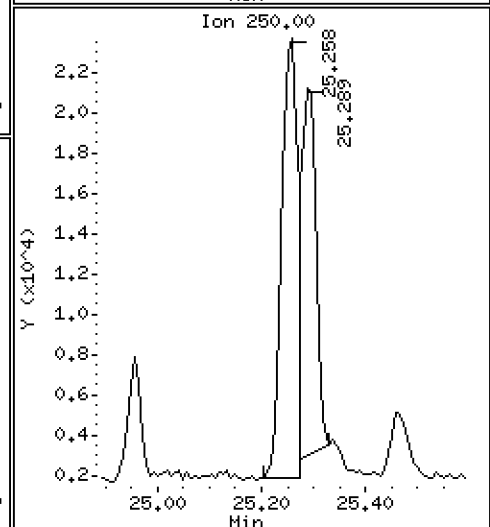
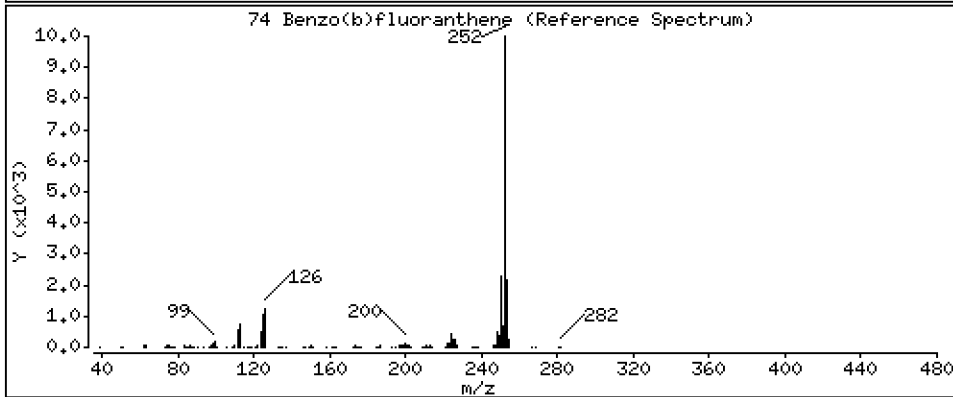
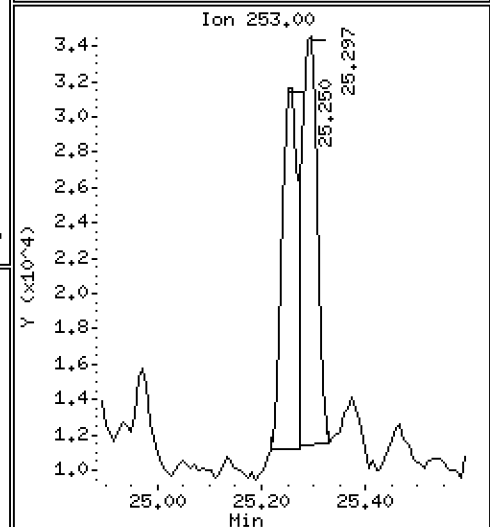
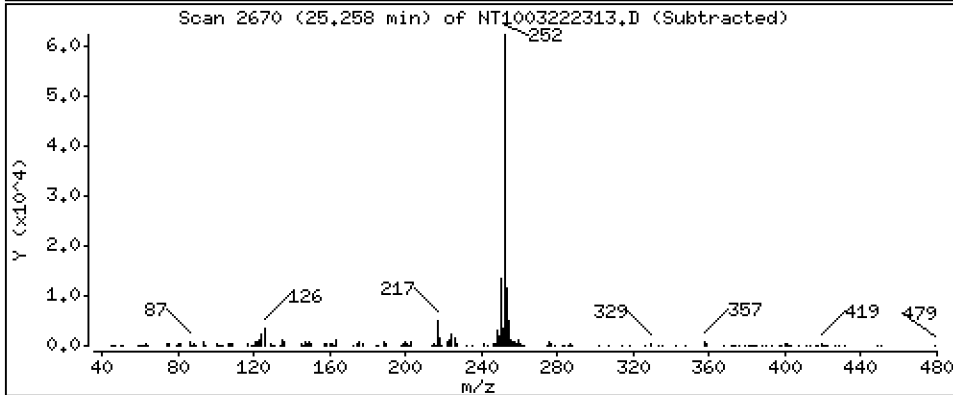
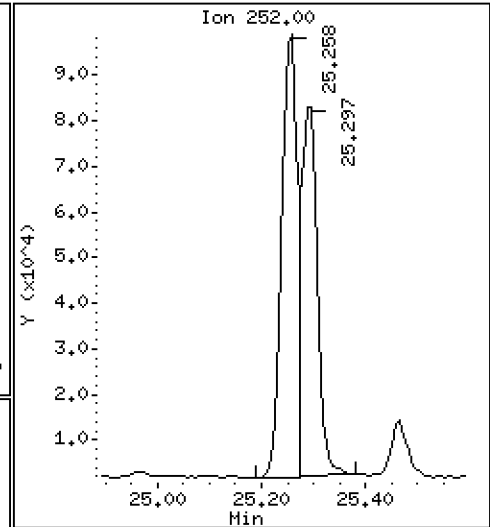
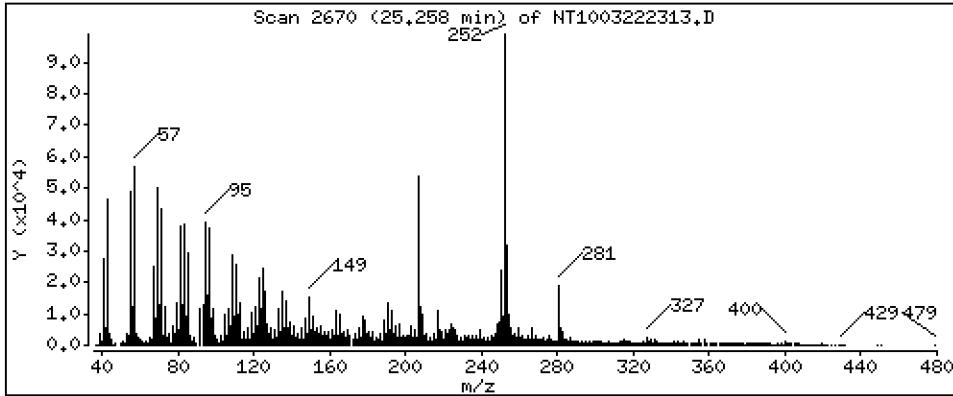
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,9612 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

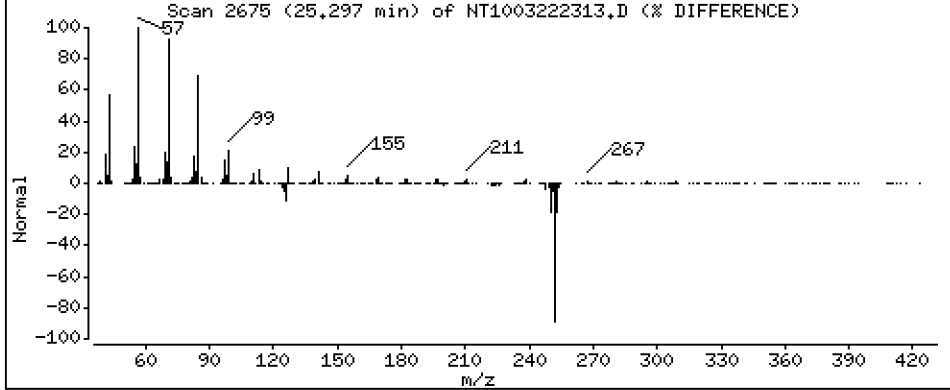
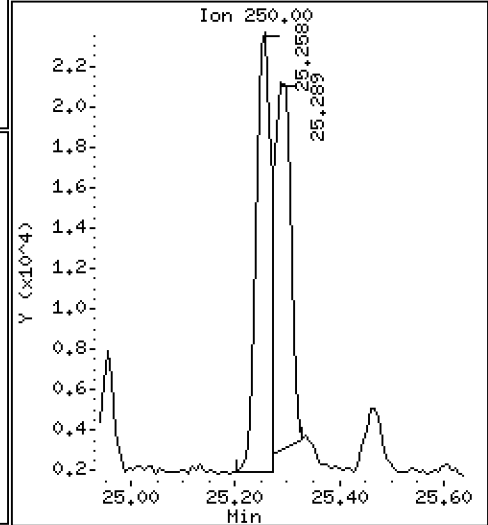
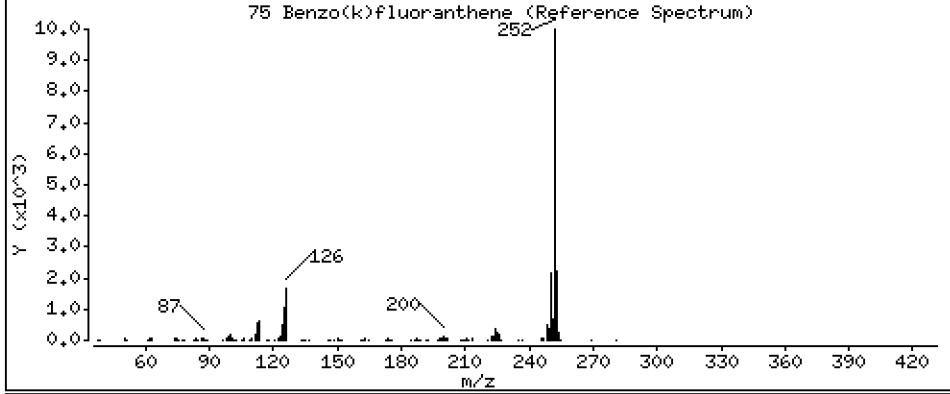
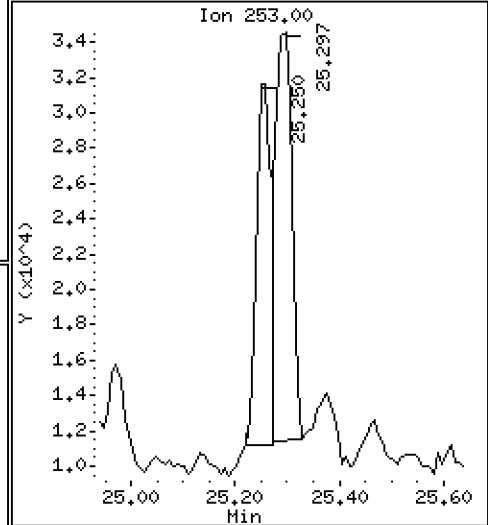
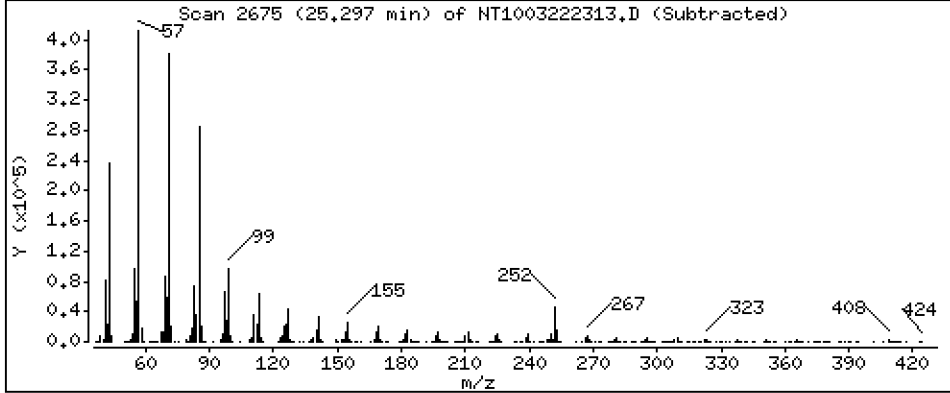
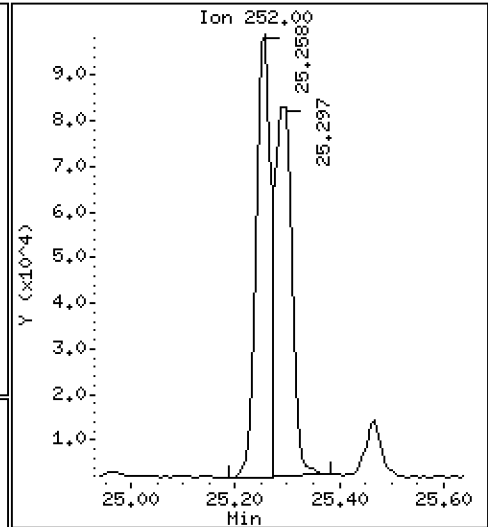
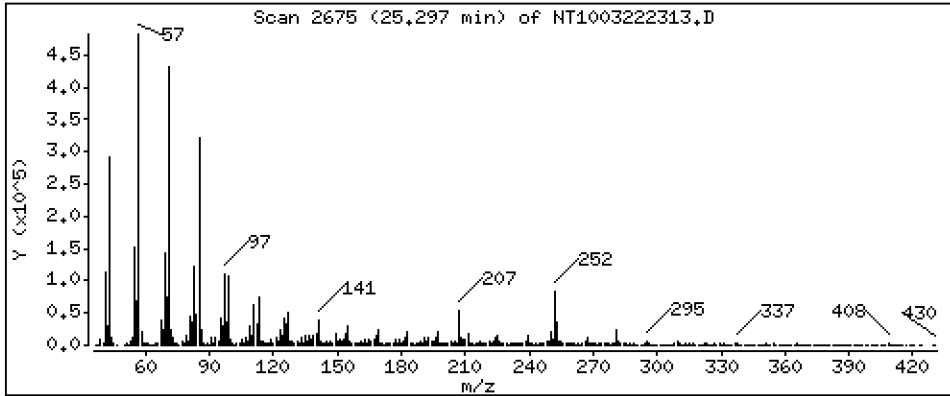
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,8757 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

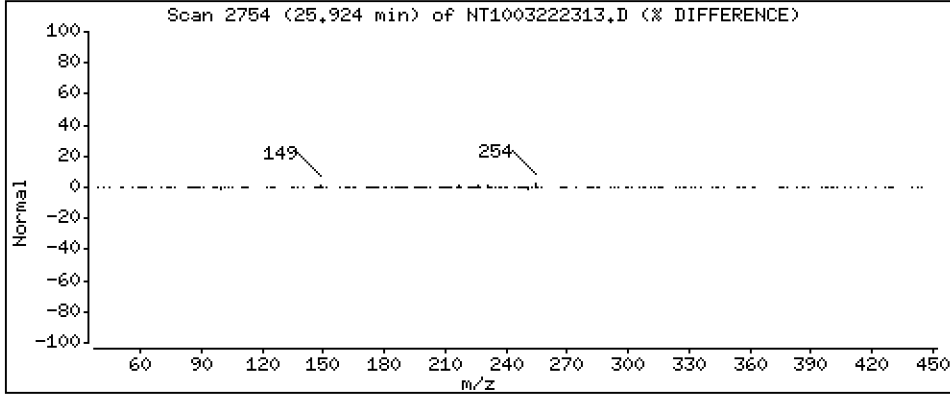
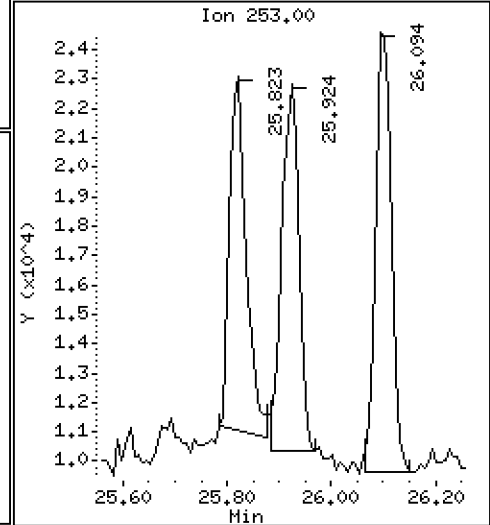
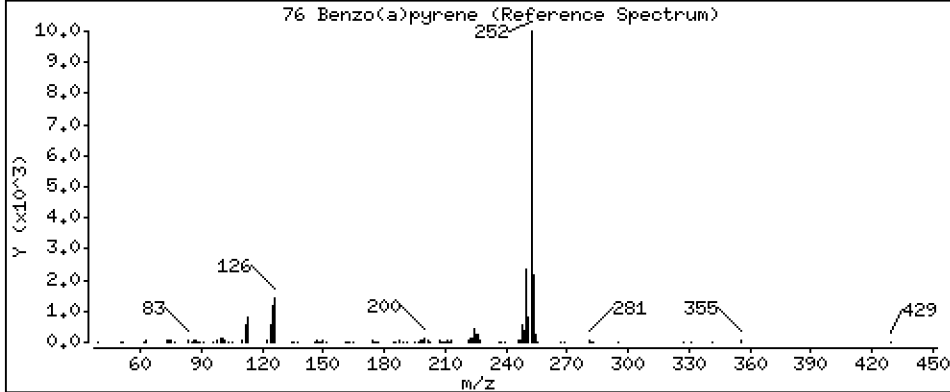
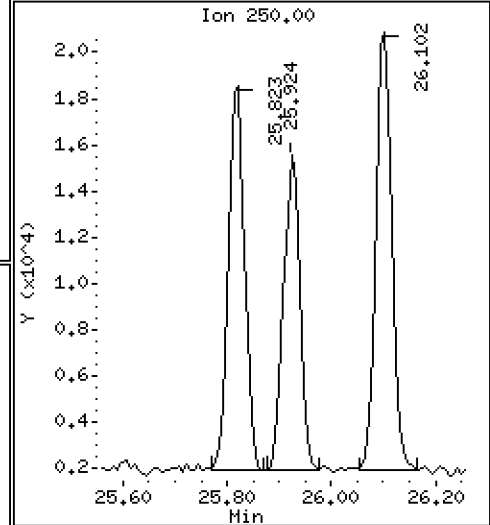
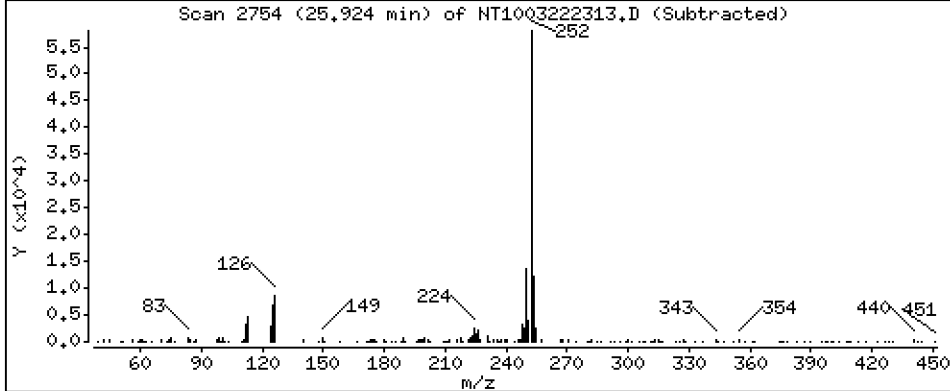
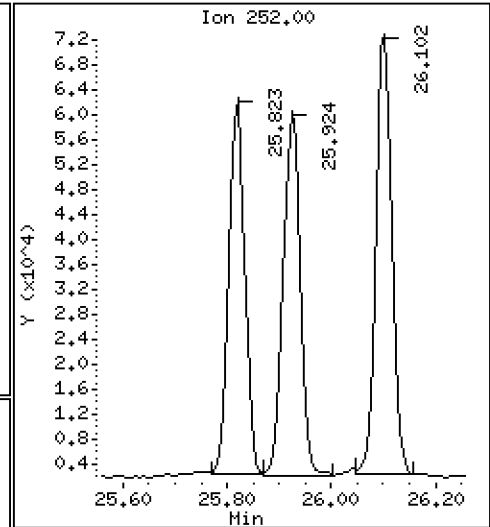
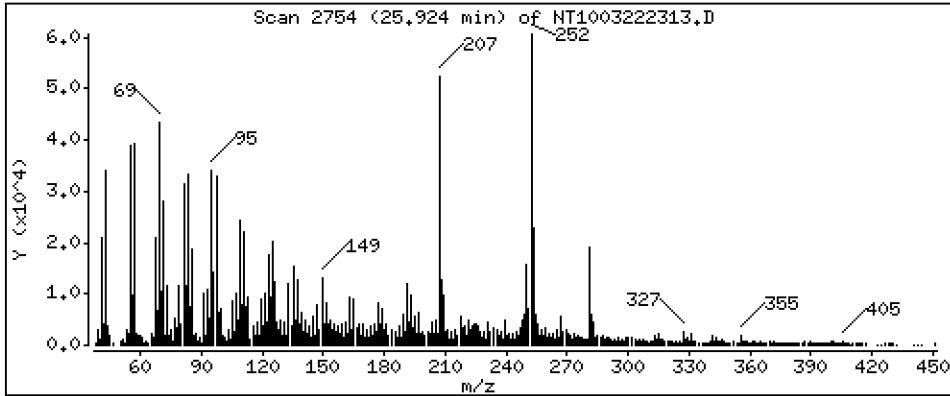
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,6807 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

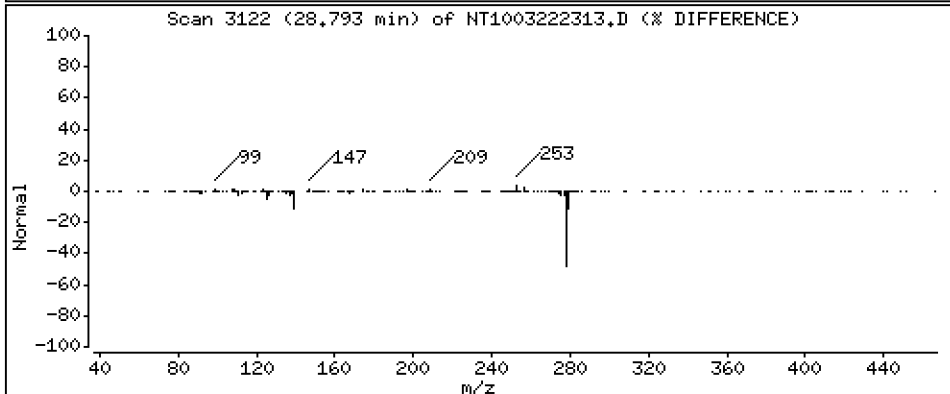
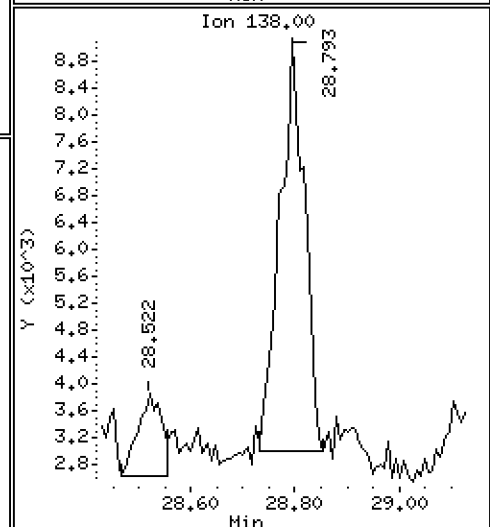
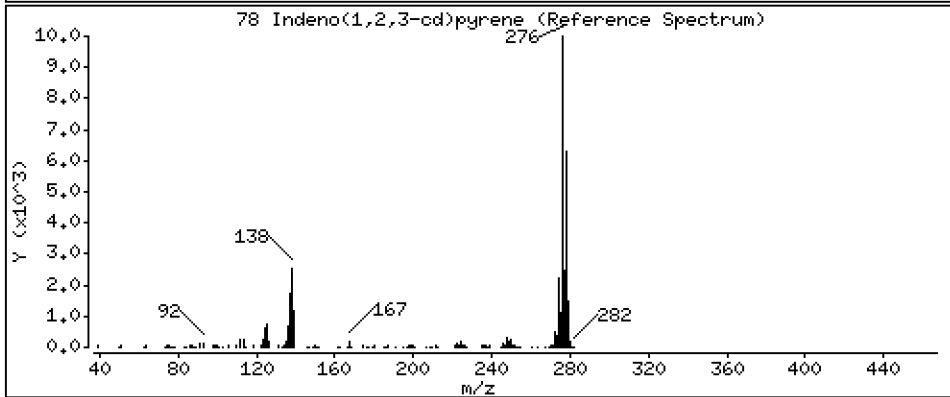
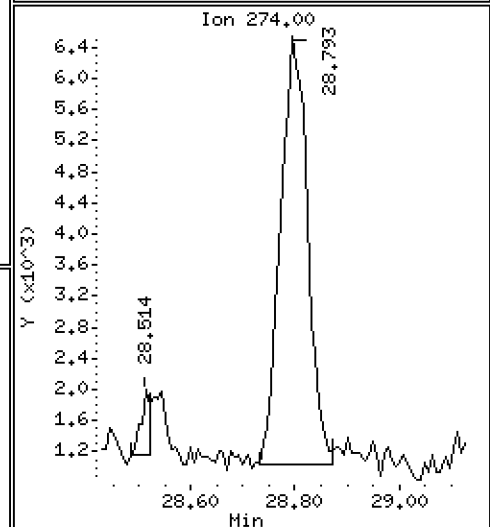
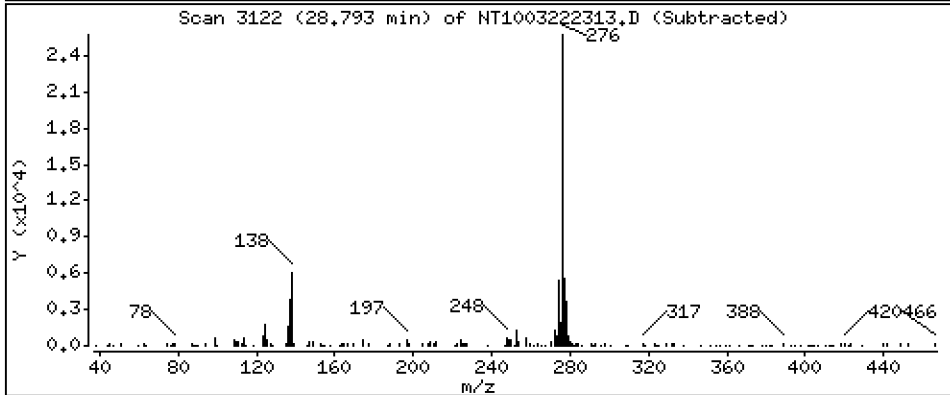
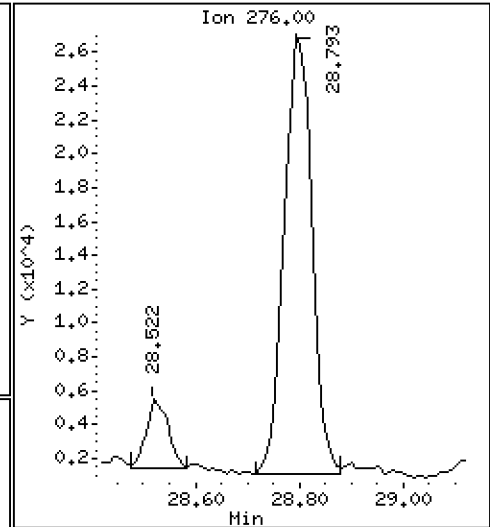
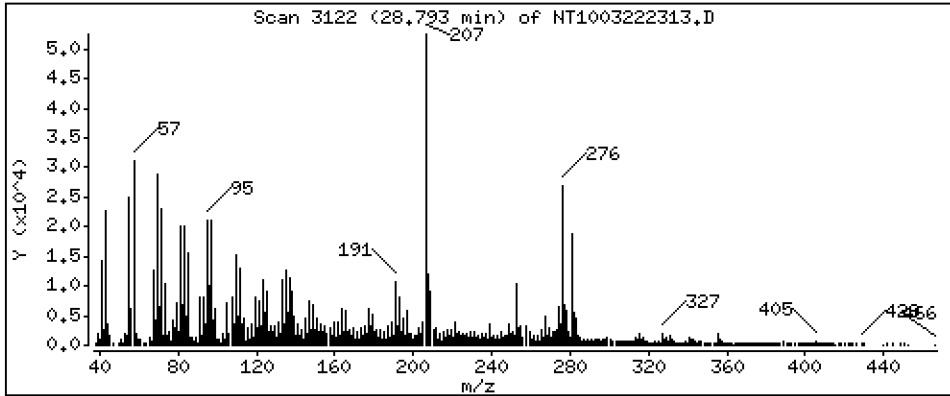
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,4065 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

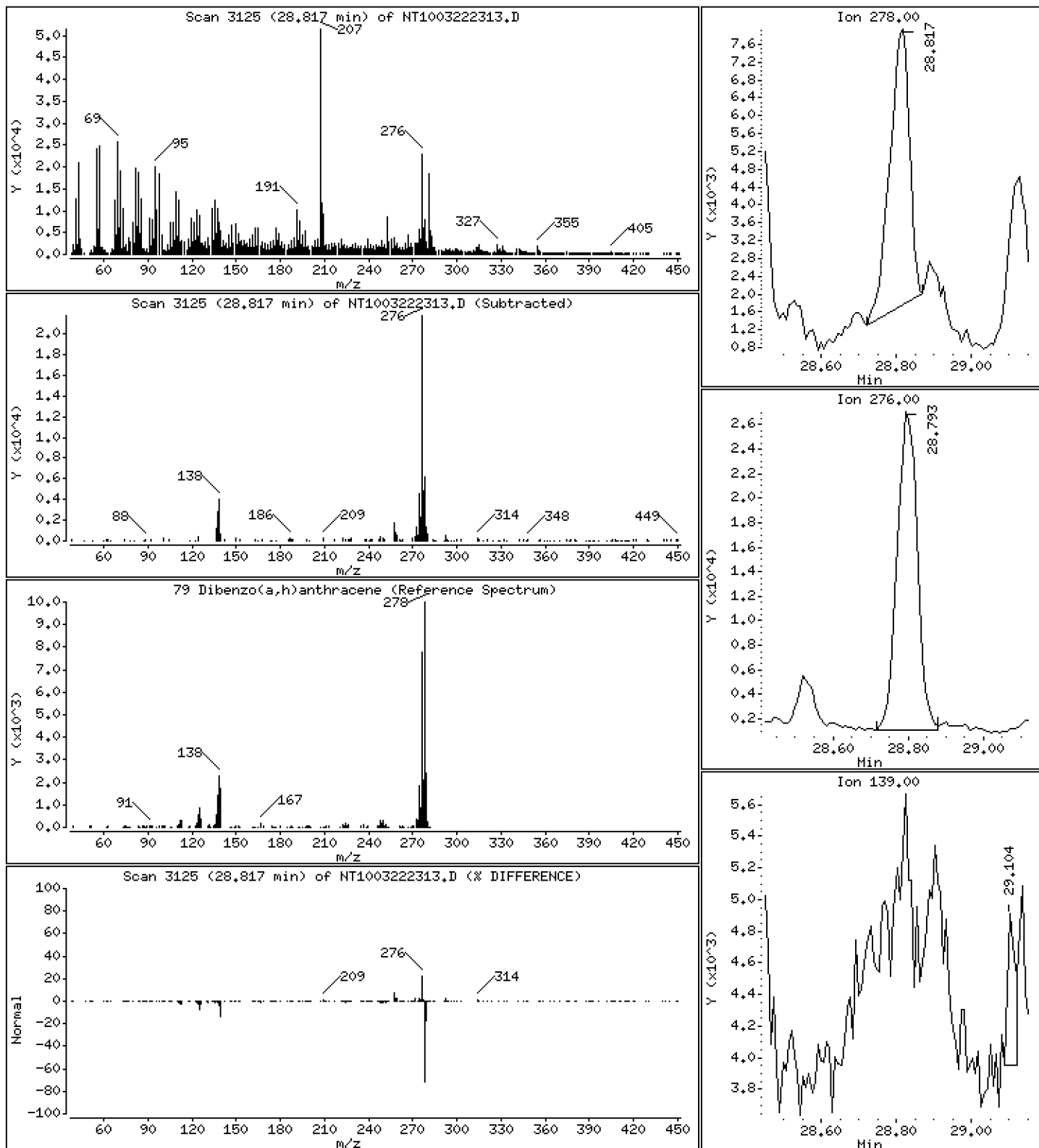
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 0.1120 ug/mL





Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

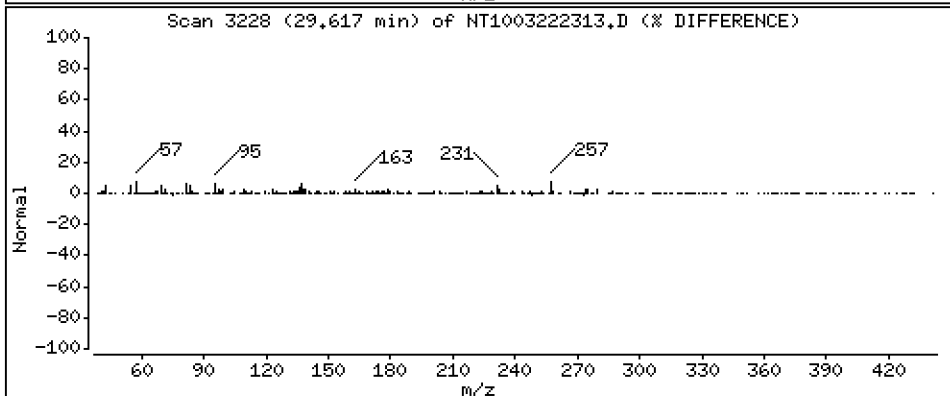
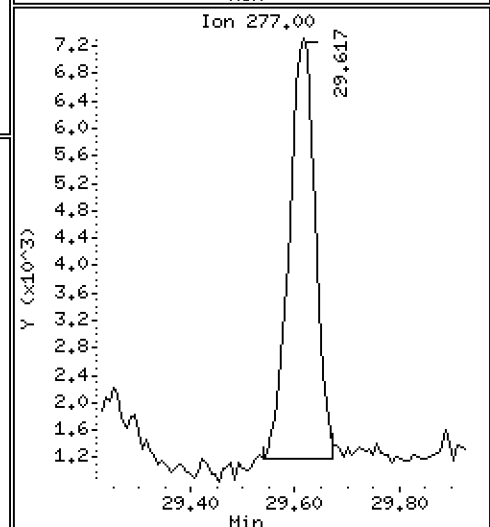
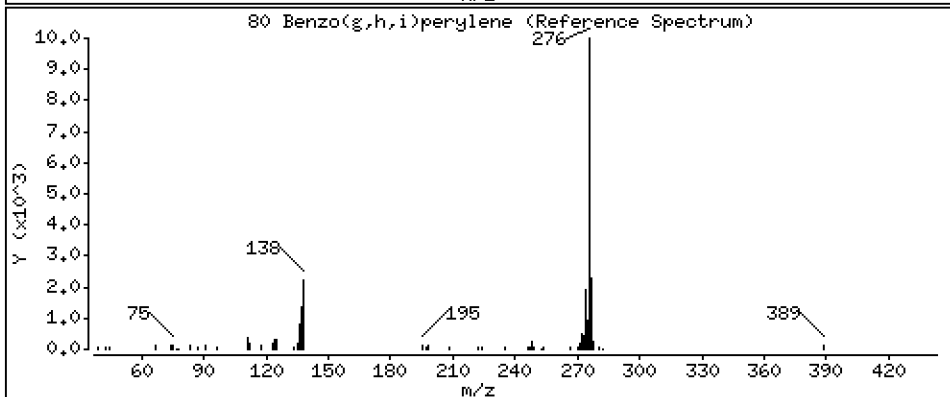
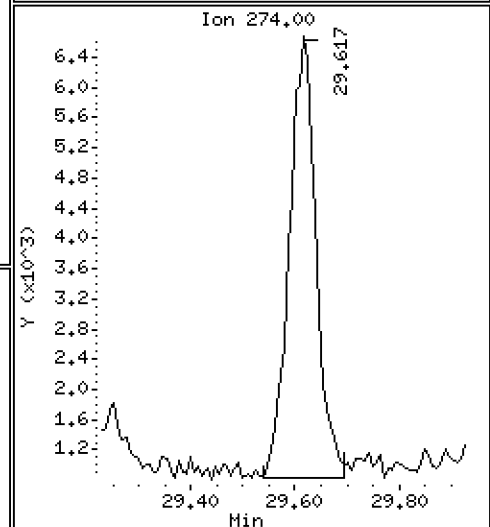
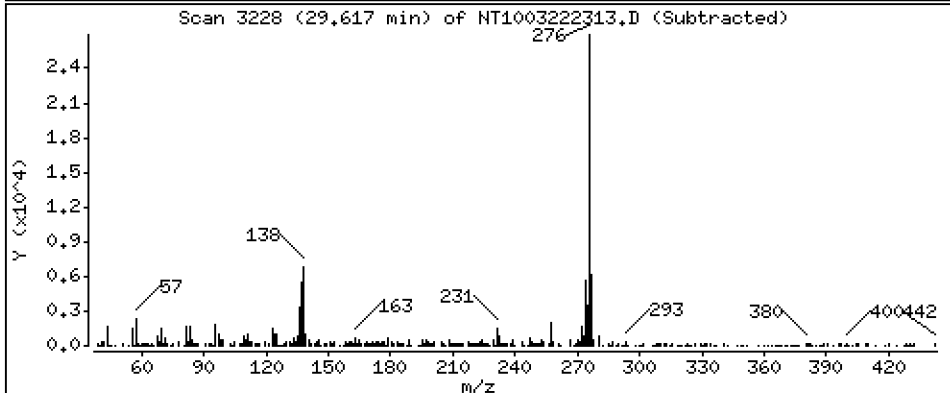
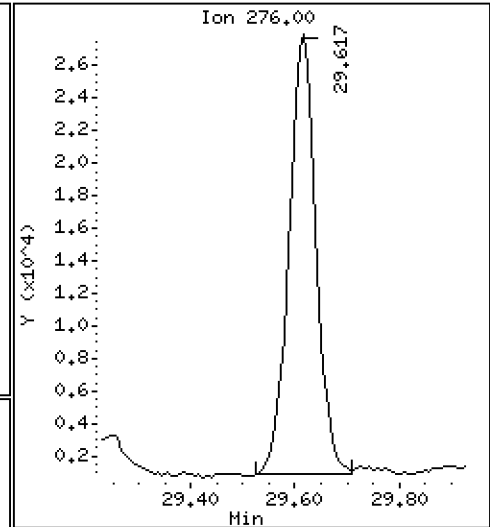
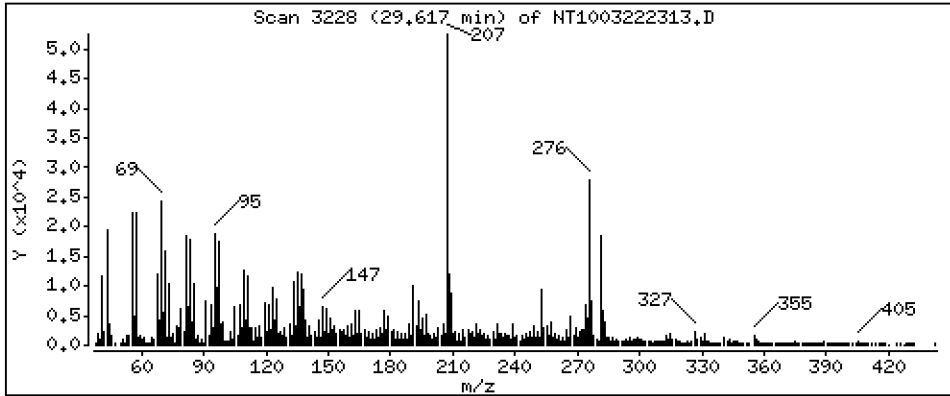
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,4721 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

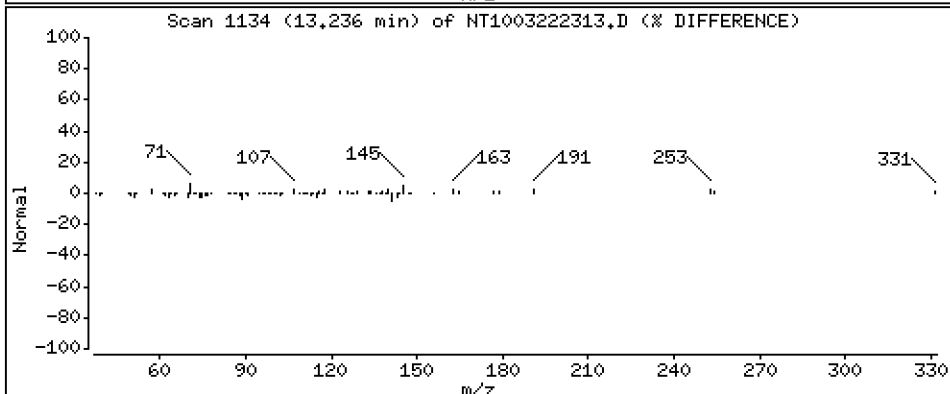
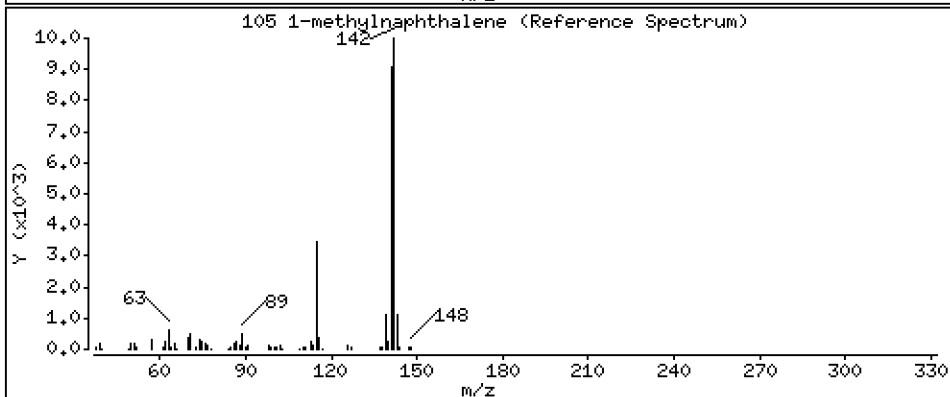
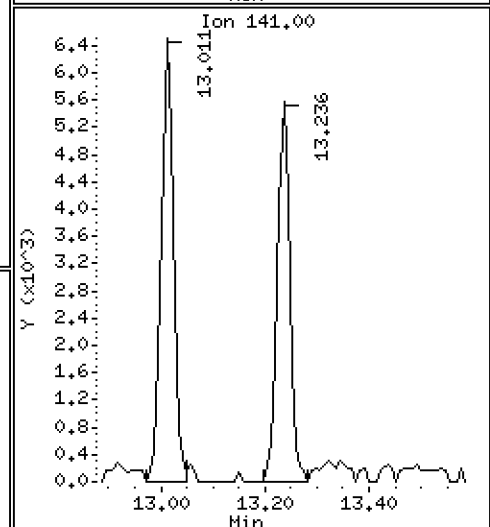
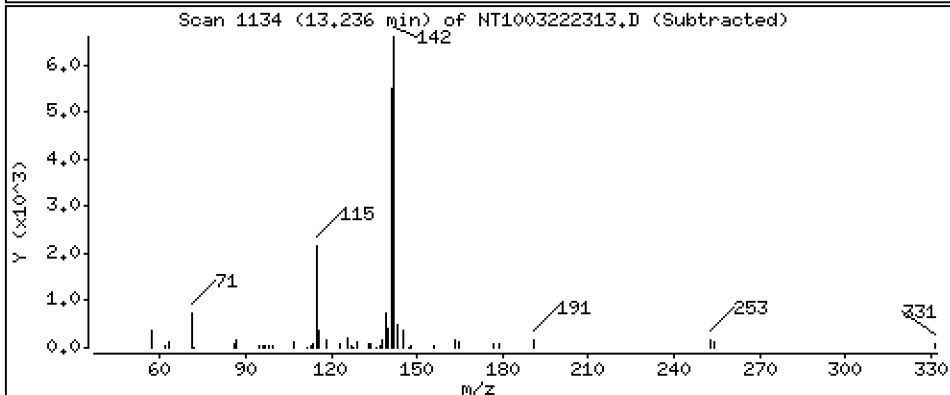
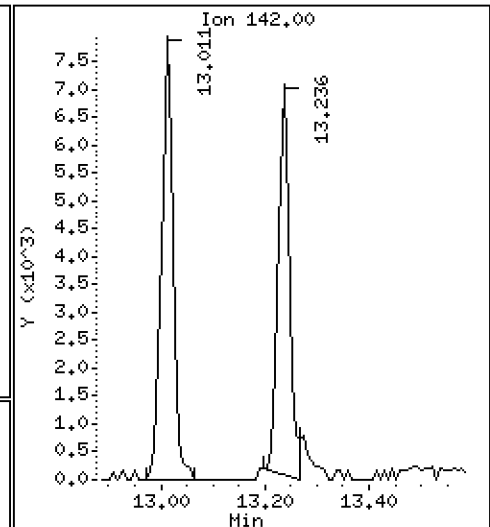
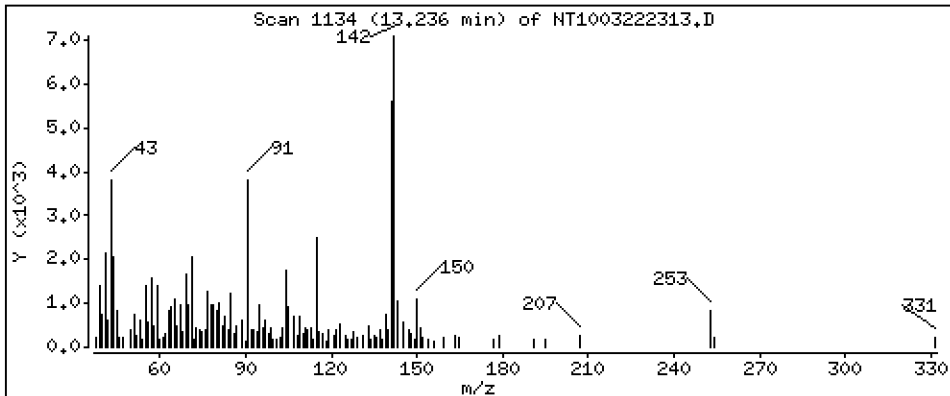
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,09540 ug/mL



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04RE1

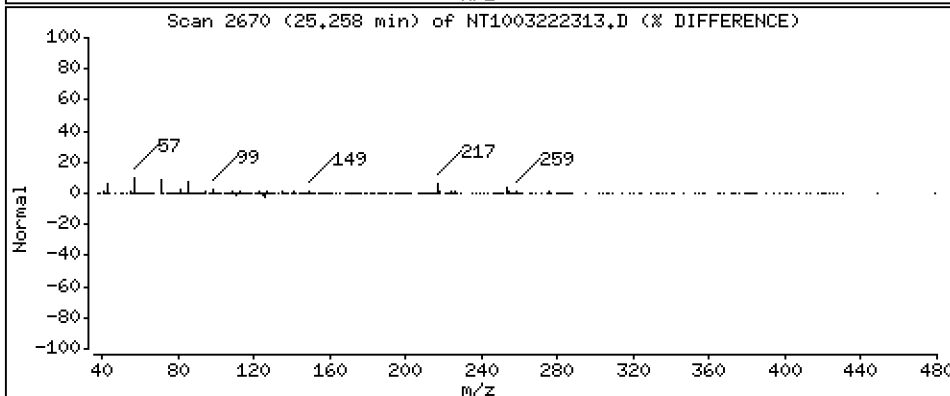
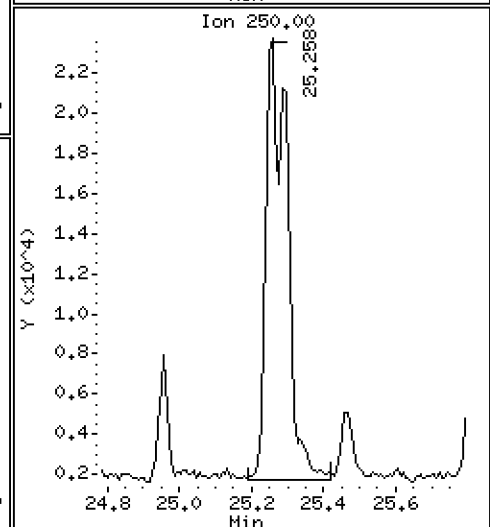
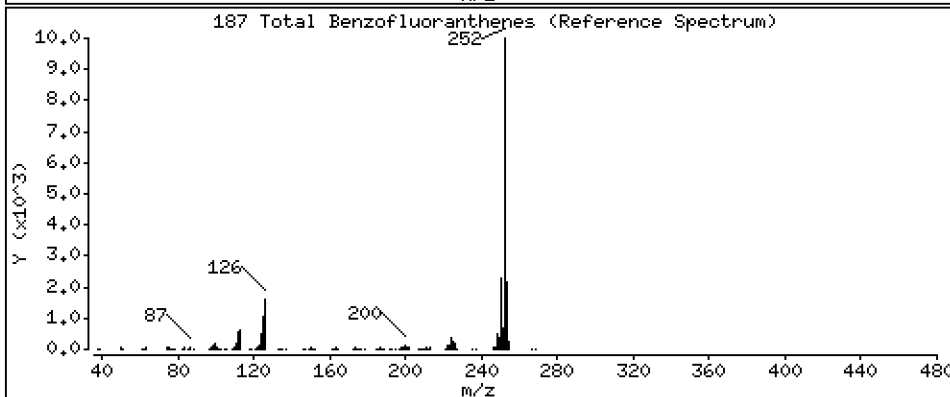
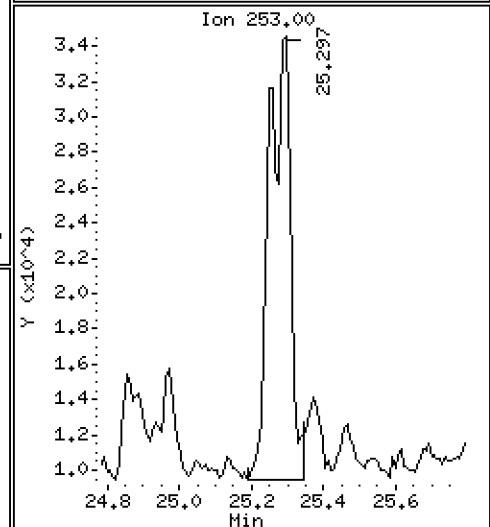
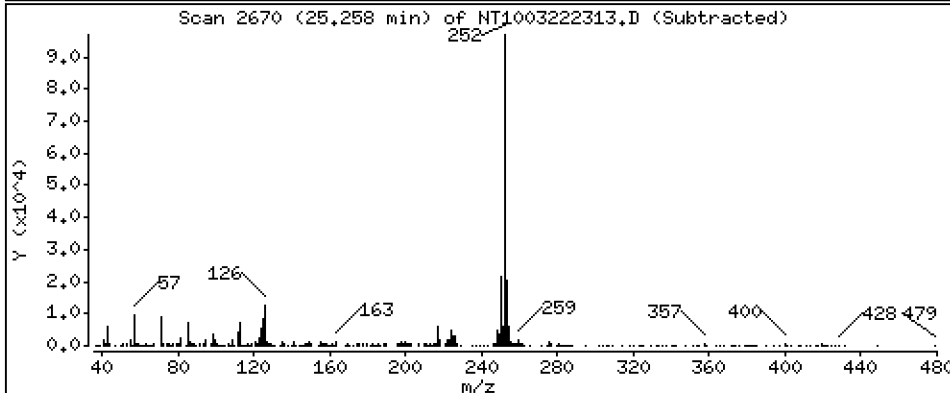
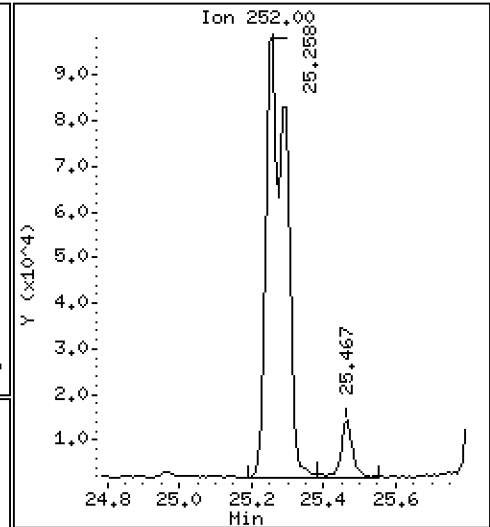
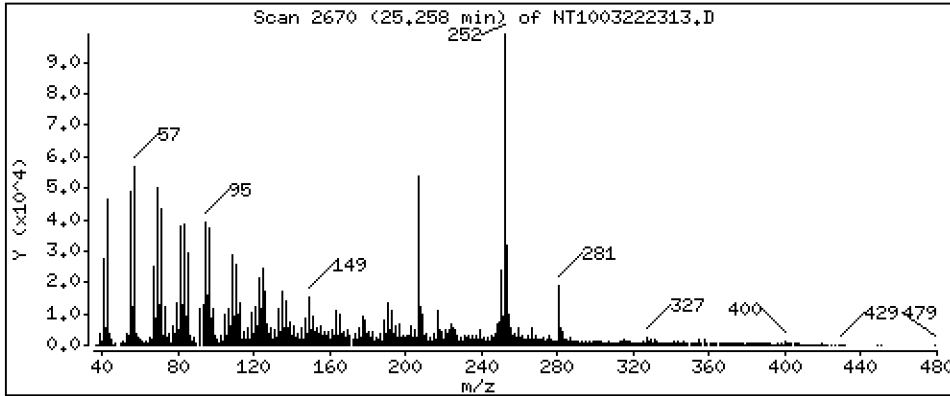
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,795 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222313.D  
 Lab Smp Id: 23A0179-04RE1  
 Inj Date : 23-MAR-2023 00:43  
 Operator : VTS  
 Smp Info : 23A0179-04RE1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 07:55 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 13  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |            |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|------------|
|                                 |       |     |                        |        |         |          | ON-COLUMN      | FINAL      |
|                                 | MASS  |     |                        |        |         |          | (ug/mL)        | (ug/mL)    |
| \$ 1 2-Fluorophenol             | 112   |     | 6.867                  | 6.851  | (0.756) | 274852   | 5.51380        | 5.514      |
| \$ 2 Phenol-d5                  | 99    |     | 8.451                  | 8.450  | (0.930) | 367416   | 5.61857        | 5.619      |
| 3 Phenol                        | 94    |     | 8.474                  | 8.473  | (0.933) | 321258   | 4.72760        | 4.728      |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.721                  | 8.721  | (0.960) | 332585   | 5.95591        | 5.956      |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | Compound Not Detected. |        |         |          |                |            |
| 6 2-Chlorophenol                | 128   |     | Compound Not Detected. |        |         |          |                |            |
| 7 1,3-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |            |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.085                  | 9.084  | (1.000) | 164835   | 4.00000        |            |
| 9 1,4-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |            |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.442                  | 9.449  | (1.039) | 143895   | 3.58818        | 3.588      |
| 12 1,2-Dichlorobenzene          | 146   |     | Compound Not Detected. |        |         |          |                |            |
| 11 Benzyl alcohol               | 108   |     | 9.356                  | 9.356  | (1.030) | 6751     | 0.21166        | 0.2117     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | Compound Not Detected. |        |         |          |                |            |
| 13 2-Methylphenol               | 108   |     | Compound Not Detected. |        |         |          |                |            |
| 17 Hexachloroethane             | 117   |     | Compound Not Detected. |        |         |          |                |            |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | Compound Not Detected. |        |         |          |                |            |
| 15 4-Methylphenol               | 108   |     | 9.861                  | 9.853  | (1.085) | 43862    | 0.84036        | 0.8404     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.179                 | 10.187 | (0.880) | 232621   | 3.84431        | 3.844      |
| 19 Nitrobenzene                 | 77    |     | Compound Not Detected. |        |         |          |                |            |
| 20 Isophorone                   | 82    |     | Compound Not Detected. |        |         |          |                |            |
| 21 2-Nitrophenol                | 139   |     | Compound Not Detected. |        |         |          |                |            |
| 22 2,4-Dimethylphenol           | 107   |     | Compound Not Detected. |        |         |          |                |            |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | Compound Not Detected. |        |         |          |                |            |
| 24 Benzoic acid                 | 105   |     | 11.011                 | 11.104 | (0.952) | 18898    | 0.62328        | 0.6233 (H) |
| 25 2,4-Dichlorophenol           | 162   |     | Compound Not Detected. |        |         |          |                |            |
| 26 1,2,4-Trichlorobenzene       | 180   |     | Compound Not Detected. |        |         |          |                |            |
| * 27 Naphthalene-d8             | 136   |     | 11.572                 | 11.572 | (1.000) | 599493   | 4.00000        |            |
| 28 Naphthalene                  | 128   |     | 11.611                 | 11.611 | (1.003) | 14561    | 0.09169        | 0.09169    |
| 29 4-Chloroaniline              | 127   |     | Compound Not Detected. |        |         |          |                |            |
| 30 Hexachlorobutadiene          | 225   |     | Compound Not Detected. |        |         |          |                |            |
| 31 4-Chloro-3-methylphenol      | 107   |     | Compound Not Detected. |        |         |          |                |            |
| 32 2-Methylnaphthalene          | 142   |     | 13.011                 | 13.011 | (1.124) | 12130    | 0.10584        | 0.1058     |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                |            |

| Compounds                         | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
|                                   |       |     |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| \$ 36 2-Fluorobiphenyl            | 172   |     | 13.800 | 13.800 | (0.908) | 541783   | 4.07180              | 4.072            |
| 37 2-Chloronaphthalene            | 162   |     |        |        |         |          |                      |                  |
| 38 2-Nitroaniline                 | 65    |     |        |        |         |          |                      |                  |
| 39 Dimethylphthalate              | 163   |     |        |        |         |          |                      |                  |
| 40 Acenaphthylene                 | 152   |     | 14.884 | 14.884 | (0.979) | 9653     | 0.05750              | 0.05750          |
| 41 2,6-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| * 42 Acenaphthene-d10             | 164   |     | 15.201 | 15.193 | (1.000) | 336367   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 44 Acenaphthene                   | 153   |     | 15.263 | 15.263 | (1.004) | 5661     | 0.05458              | 0.05458          |
| 45 2,4-Dinitrophenol              | 184   |     |        |        |         |          |                      |                  |
| 46 Dibenzofuran                   | 168   |     | 15.588 | 15.595 | (1.025) | 12759    | 0.08342              | 0.08342          |
| 47 4-Nitrophenol                  | 109   |     |        |        |         |          |                      |                  |
| 48 2,4-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| 50 Diethylphthalate               | 149   |     | 16.167 | 16.175 | (1.064) | 14363    | 0.13397              | 0.1340           |
| 49 Fluorene                       | 166   |     | 16.306 | 16.306 | (1.073) | 9786     | 0.08133              | 0.08133          |
| 51 4-Chlorophenyl-phenylether     | 204   |     |        |        |         |          |                      |                  |
| 52 4-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     |        |        |         |          |                      |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     |        |        |         |          |                      |                  |
| \$ 55 2,4,6-Tribromophenol        | 330   |     | 16.846 | 16.846 | (1.108) | 135695   | 8.67275              | 8.673            |
| 56 4-Bromophenyl-phenylether      | 248   |     |        |        |         |          |                      |                  |
| 57 Hexachlorobenzene              | 284   |     |        |        |         |          |                      |                  |
| 58 Pentachlorophenol              | 266   |     |        |        |         |          |                      |                  |
| * 59 Phenanthrene-d10             | 188   |     | 18.253 | 18.253 | (1.000) | 643416   | 4.00000              |                  |
| 60 Phenanthrene                   | 178   |     | 18.307 | 18.299 | (1.003) | 124003   | 0.70679              | 0.7068           |
| 61 Anthracene                     | 178   |     | 18.400 | 18.392 | (1.008) | 35329    | 0.20992              | 0.2099           |
| 62 Carbazole                      | 167   |     | 18.733 | 18.725 | (1.026) | 14039    | 0.09309              | 0.09309          |
| 63 Di-n-butylphthalate            | 149   |     | 19.553 | 19.545 | (1.071) | 8295     | 0.04090              | 0.04090          |
| 64 Fluoranthene                   | 202   |     | 20.760 | 20.705 | (0.889) | 241783   | 1.05119              | 1.051            |
| 65 Pyrene                         | 202   |     | 21.154 | 21.131 | (0.906) | 291625   | 1.23597              | 1.236            |
| \$ 66 Terphenyl-d14               | 244   |     | 21.433 | 21.425 | (0.918) | 703399   | 3.96968              | 3.970            |
| 67 Butylbenzylphthalate           | 149   |     |        |        |         |          |                      |                  |
| 68 Benzo(a)anthracene             | 228   |     | 23.322 | 23.314 | (0.999) | 114542   | 0.56691              | 0.5669           |
| * 69 Chrysene-d12                 | 240   |     | 23.353 | 23.345 | (1.000) | 572423   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     |        |        |         |          |                      |                  |
| 71 Chrysene                       | 228   |     | 23.392 | 23.392 | (1.002) | 186460   | 0.94459              | 0.9446           |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 23.415 | 23.407 | (0.959) | 129416   | 0.88932              | 0.8893           |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 24.421 | 24.413 | (1.000) | 994537   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149   |     |        |        |         |          |                      |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 25.258 | 25.242 | (0.970) | 205664   | 0.96118              | 0.9612           |
| 75 Benzo(k)fluoranthene           | 252   |     | 25.296 | 25.288 | (0.971) | 190258   | 0.87568              | 0.8757           |
| 76 Benzo(a)pyrene                 | 252   |     | 25.924 | 25.908 | (0.995) | 130213   | 0.68067              | 0.6807           |
| * 77 Perylene-d12                 | 264   |     | 26.047 | 26.024 | (1.000) | 660096   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 28.793 | 28.769 | (1.105) | 98929    | 0.40648              | 0.4065           |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 28.816 | 28.800 | (1.106) | 22627    | 0.11198              | 0.1120 (M)       |
| 80 Benzo(g,h,i)perylene           | 276   |     | 29.616 | 29.577 | (1.137) | 99433    | 0.47208              | 0.4721           |
| 90 N-Nitrosodimethylamine         | 74    |     |        |        |         |          |                      |                  |
| 91 Aniline                        | 93    |     |        |        |         |          |                      |                  |
| 93 Benzidine                      | 184   |     |        |        |         |          |                      |                  |
| 103 Pyridine                      | 79    |     |        |        |         |          |                      |                  |
| 105 1-methylnaphthalene           | 142   |     | 13.235 | 13.235 | (1.144) | 10018    | 0.09540              | 0.09540          |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     |        |        |         |          |                      |                  |

| Compounds                     | QUANT SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |  |
|-------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|--|
|                               |           |                        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |  |
| 187 Total Benzofluoranthenes  | 252       | 25.258                 | 25.288 | (0.970) | 370742   | 1.79454              | 1.795            |  |
| 120 2,3,4,6-Tetrachlorophenol | 232       | Compound Not Detected. |        |         |          |                      |                  |  |

QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 22-MAR-2023  
 Lab File ID: NT1003222313.D Calibration Time: 17:42  
 Lab Smp Id: 23A0179-04RE1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 122478   | 61239      | 244956  | 164835 | 34.58 |
| 27 Naphthalene-d8     | 459261   | 229631     | 918522  | 599493 | 30.53 |
| 42 Acenaphthene-d10   | 264106   | 132053     | 528212  | 336367 | 27.36 |
| 59 Phenanthrene-d10   | 503255   | 251628     | 1006510 | 643416 | 27.85 |
| 69 Chrysene-d12       | 437735   | 218868     | 875470  | 572423 | 30.77 |
| 134 Di-n-octylphthala | 700191   | 350096     | 1400382 | 994537 | 42.04 |
| 77 Perylene-d12       | 499049   | 249525     | 998098  | 660096 | 32.27 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.08     | 8.58     | 9.58  | 9.09   | 0.00  |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.57  | 0.00  |
| 42 Acenaphthene-d10   | 15.19    | 14.69    | 15.69 | 15.20  | 0.05  |
| 59 Phenanthrene-d10   | 18.25    | 17.75    | 18.75 | 18.25  | 0.00  |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.35  | 0.03  |
| 134 Di-n-octylphthala | 24.41    | 23.91    | 24.91 | 24.42  | 0.03  |
| 77 Perylene-d12       | 26.02    | 25.52    | 26.52 | 26.05  | 0.09  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222313.D

Lab ID: 23A0179-04RE1  
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 00:43

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND     |
|-------|---------|---------|--------------|
| 0.952 | 0.960   | -0.0081 | Benzoic acid |

RRT check based on Ccal File: NT1003222302.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*



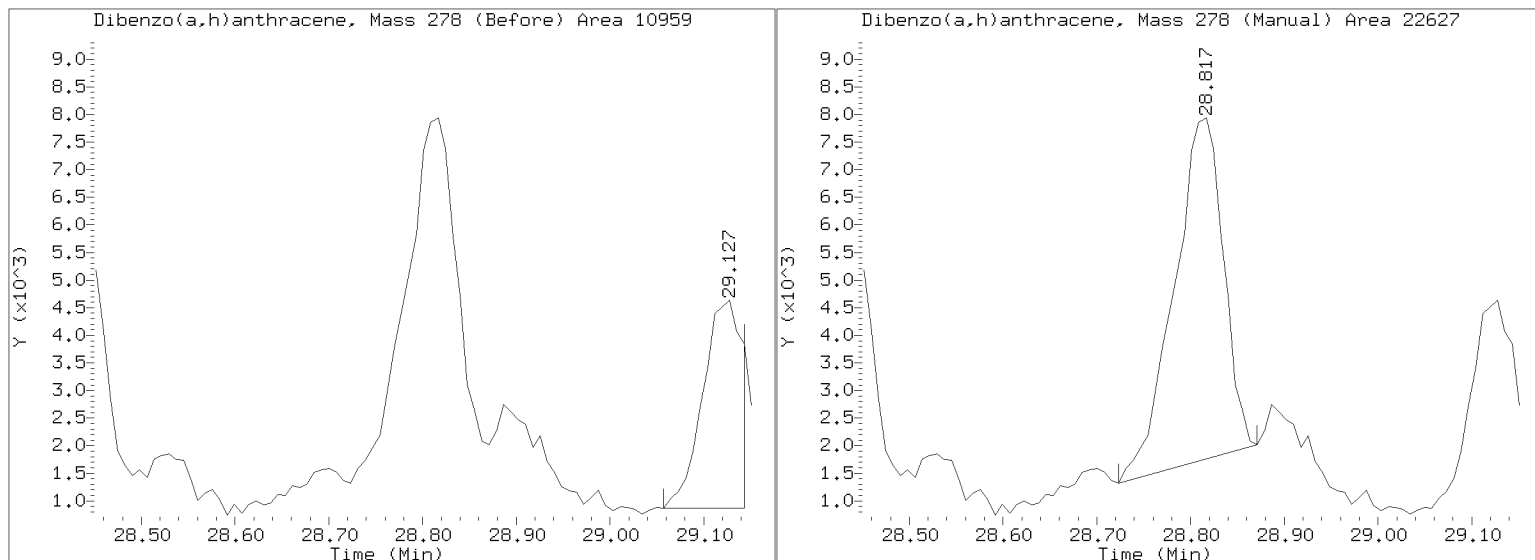
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222313.D

Injection Date: 23-MAR-2023 00:43

Lab ID: 23A0179-04RE1 Client ID:

Report Date: 03/25/2023 07:56





Form I  
ORGANIC ANALYSIS DATA SHEET

EPA 8270E  
Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-05RE1 A

SDG: 23A0179

Sampled: 01/10/23 09:35

Prepared: 03/17/23 11:16

File ID: NT1003222314.D

% Solids: 67.40

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 01:21

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 14.88 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| CAS NO.  | COMPOUND                    | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|-----------------------------|----------|----------------------|---|------|------|
| 108-95-2 | Phenol                      | 1        | 228                  |   | 4.4  | 19.9 |
| 106-44-5 | 4-Methylphenol              | 1        | 59.6                 |   | 7.4  | 19.9 |
| 91-20-3  | Naphthalene                 | 1        | 6.9                  | J | 4.2  | 19.9 |
| 91-57-6  | 2-Methylnaphthalene         | 1        | 4.6                  | J | 4.5  | 19.9 |
| 208-96-8 | Acenaphthylene              | 1        | 19.9                 | U | 6.2  | 19.9 |
| 131-11-3 | Dimethylphthalate           | 1        | 19.9                 | U | 4.4  | 19.9 |
| 83-32-9  | Acenaphthene                | 1        | 6.5                  | J | 5.2  | 19.9 |
| 132-64-9 | Dibenzofuran                | 1        | 19.9                 | U | 14.1 | 19.9 |
| 86-73-7  | Fluorene                    | 1        | 19.9                 | U | 14.5 | 19.9 |
| 85-01-8  | Phenanthrene                | 1        | 72.1                 |   | 8.7  | 19.9 |
| 120-12-7 | Anthracene                  | 1        | 30.9                 |   | 7.2  | 19.9 |
| 206-44-0 | Fluoranthene                | 1        | 213                  |   | 6.1  | 19.9 |
| 129-00-0 | Pyrene                      | 1        | 233                  |   | 5.7  | 19.9 |
| 85-68-7  | Butylbenzylphthalate        | 1        | 19.9                 | U | 9.4  | 19.9 |
| 56-55-3  | Benzo(a)anthracene          | 1        | 128                  |   | 5.9  | 19.9 |
| 218-01-9 | Chrysene                    | 1        | 151                  |   | 6.0  | 19.9 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate  | 1        | 87.2                 |   | 5.4  | 49.9 |
|          | Benzo(a)fluoranthene, Total | 1        | 256                  |   | 10.0 | 39.9 |
| 50-32-8  | Benzo(a)pyrene              | 1        | 116                  |   | 4.2  | 19.9 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene      | 1        | 51.2                 |   | 14.6 | 19.9 |
| 53-70-3  | Dibenzo(a,h)anthracene      | 1        | 18.4                 | J | 17.2 | 19.9 |
| 191-24-2 | Benzo(g,h,i)perylene        | 1        | 56.0                 |   | 13.6 | 19.9 |

| SURROGATES             | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol         | 747.82                | 590                   | 78.9  | 27 - 120  |   |
| Phenol-d5              | 747.82                | 594                   | 79.4  | 29 - 120  |   |
| 2-Chlorophenol-d4      | 747.82                | 635                   | 84.9  | 31 - 120  |   |
| 1,2-Dichlorobenzene-d4 | 498.55                | 387                   | 77.7  | 32 - 120  |   |
| Nitrobenzene-d5        | 498.55                | 405                   | 81.2  | 30 - 120  |   |
| 2-Fluorobiphenyl       | 498.55                | 429                   | 86.0  | 35 - 120  |   |



**Form I**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8270E**  
**Semivolatiles (20ug/kg - 0.2ug/L SepF)**

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-05RE1 A

SDG: 23A0179

Sampled: 01/10/23 09:35

Prepared: 03/17/23 11:16

File ID: NT1003222314.D

% Solids: 67.40

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 01:21

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 14.88 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| SURROGATES           | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------|-----------------------|-----------------------|-------|-----------|---|
| 2,4,6-Tribromophenol | 747.82                | 893                   | 119   | 24 - 134  | Q |
| p-Terphenyl-d14      | 498.55                | 436                   | 87.5  | 37 - 120  |   |

Data File: \\target\share\chem3\nt10,1\20230322,16\NT1003222314.D

Date: 23-MAR-2023 01:21

Client ID:

Sample Info: 23A0179-05RE1

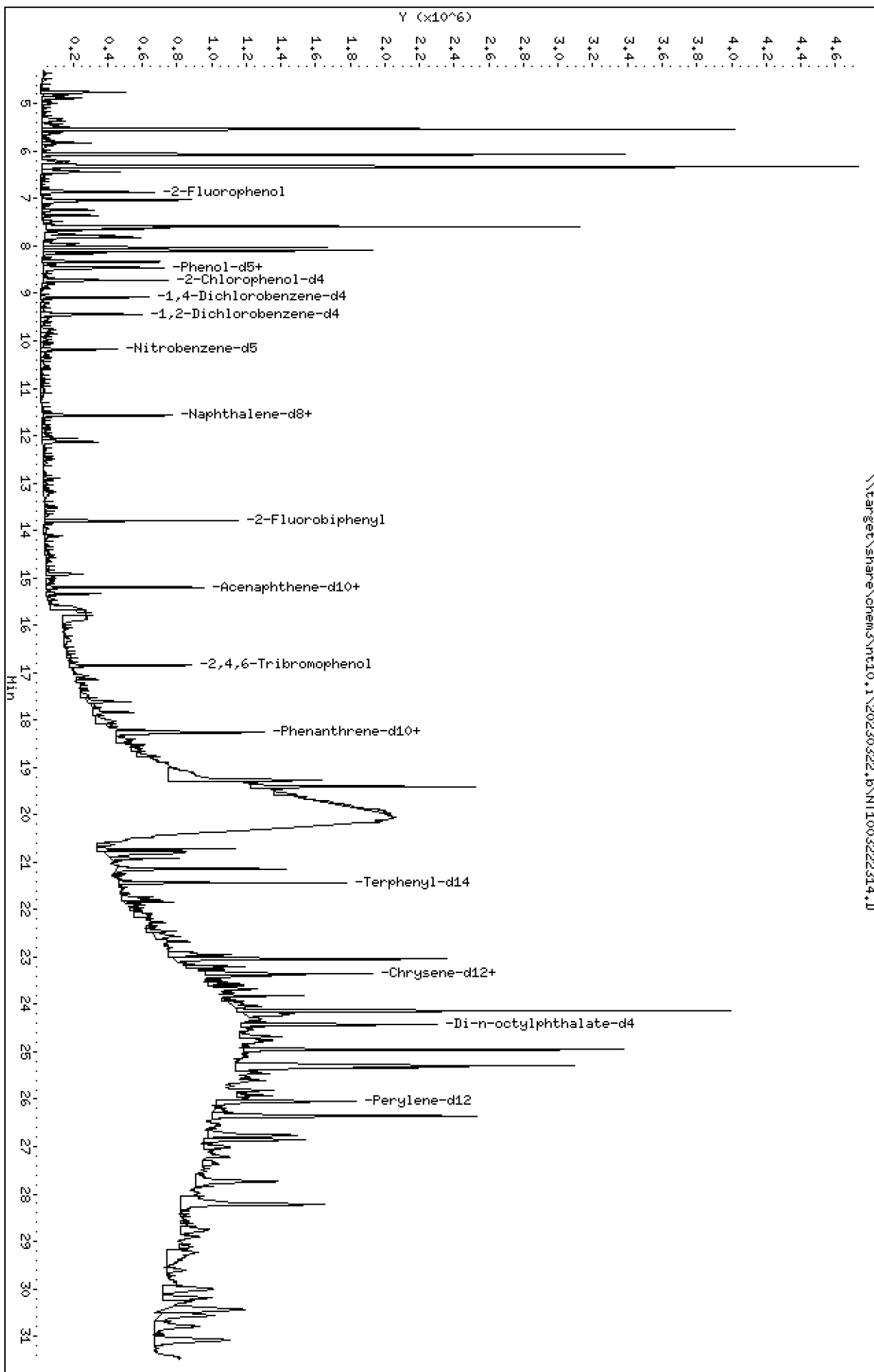
Column phase: ZB-5msi

Instrument: nt10,1

Operator: VTS

Column diameter: 0,25

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Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

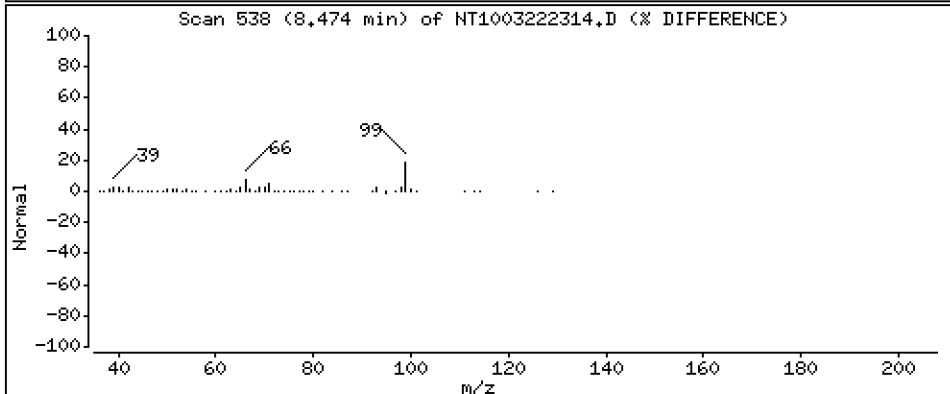
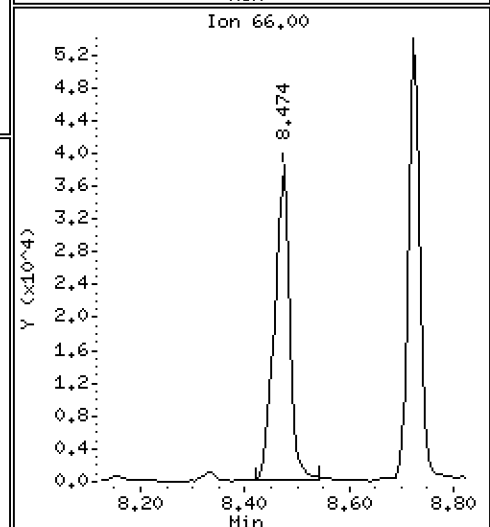
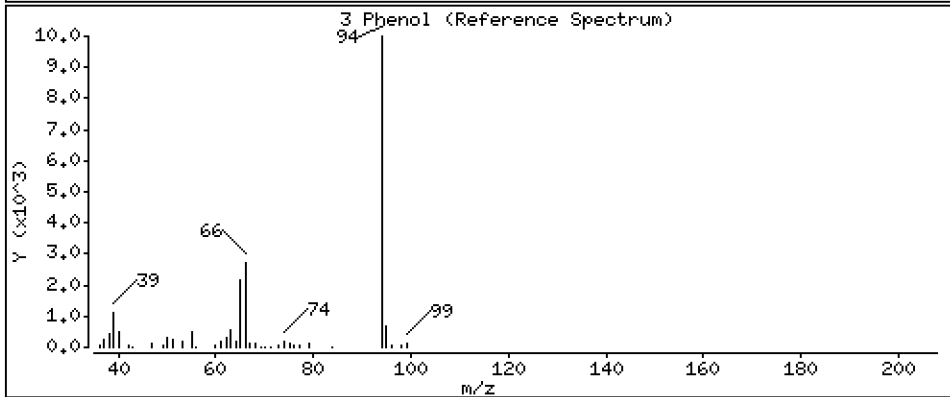
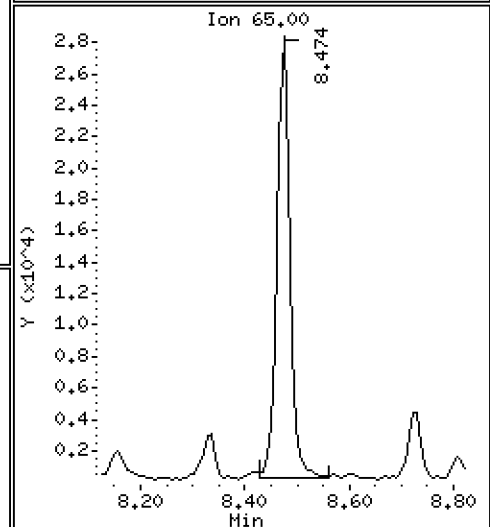
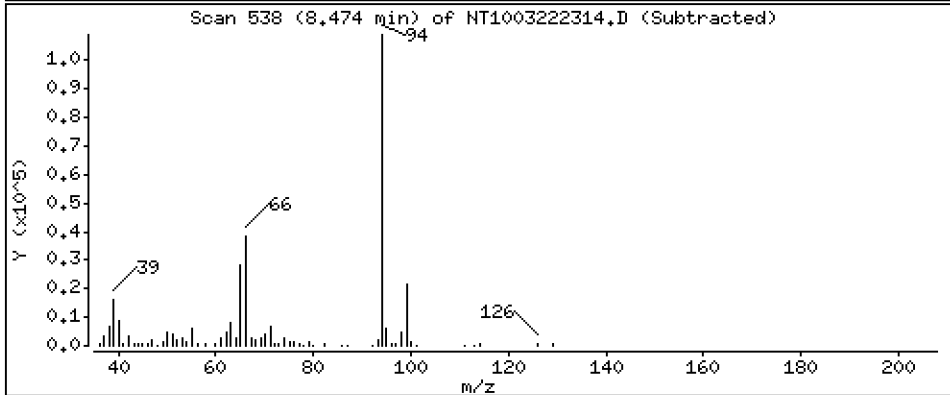
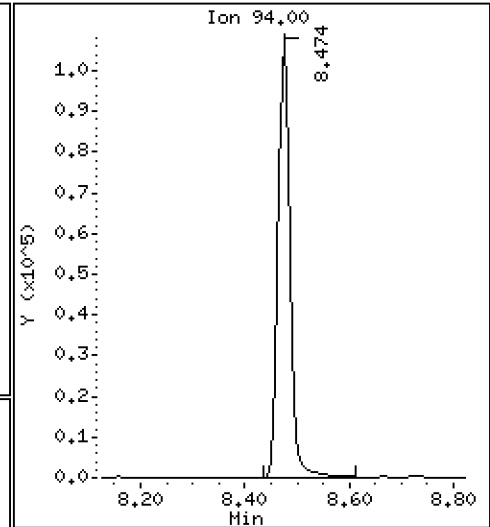
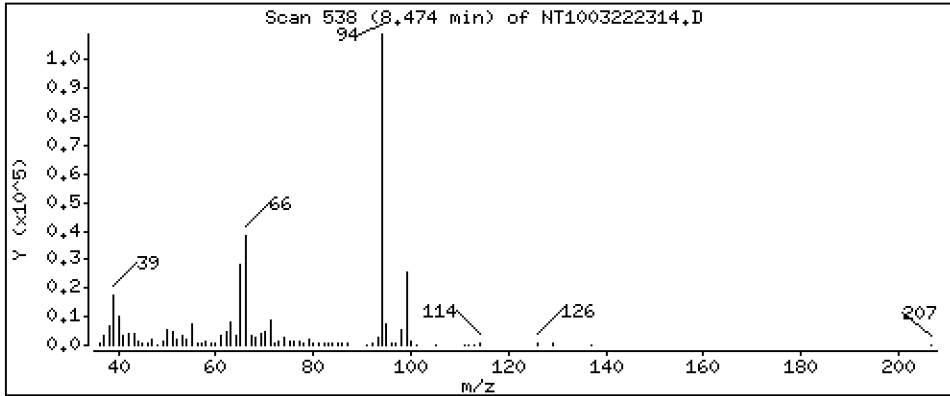
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 2,291 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

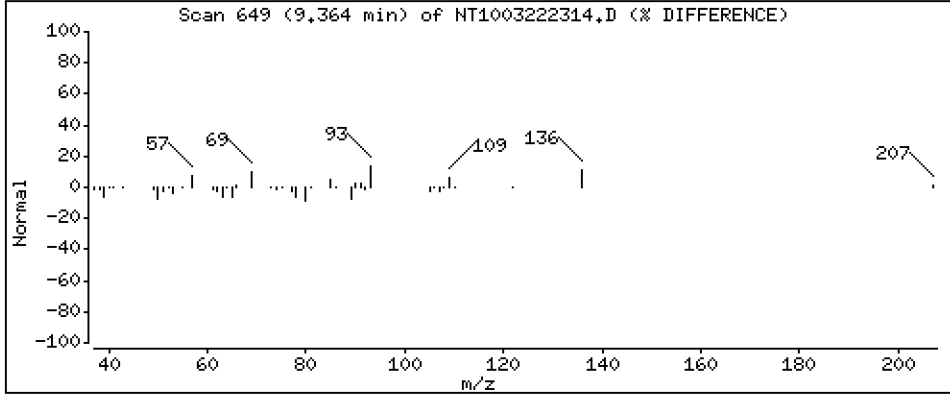
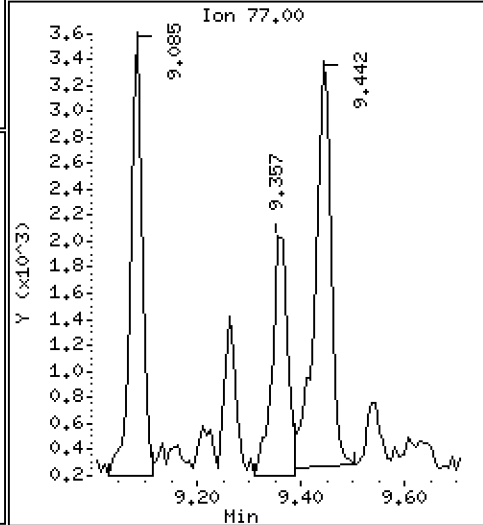
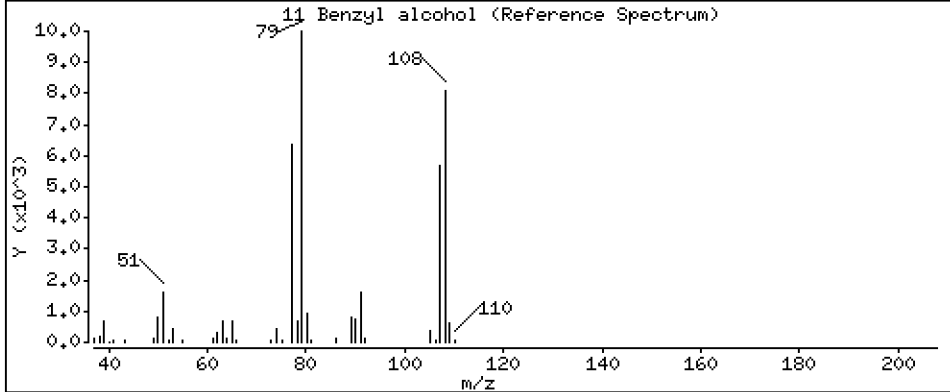
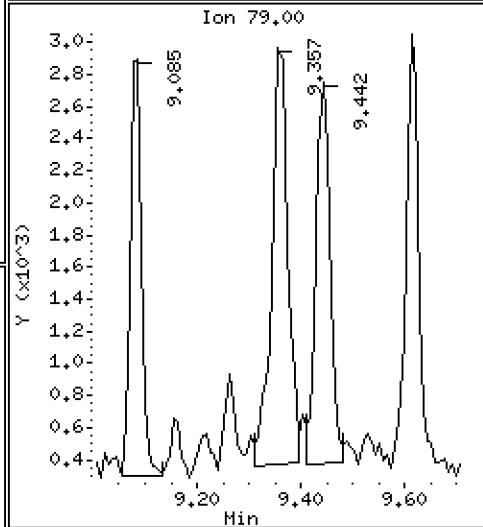
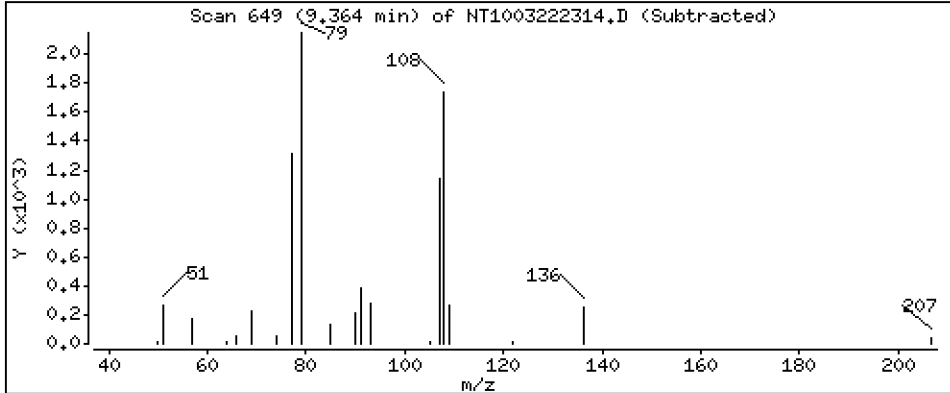
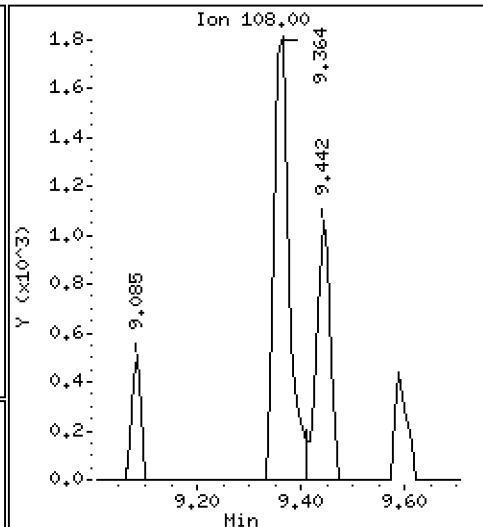
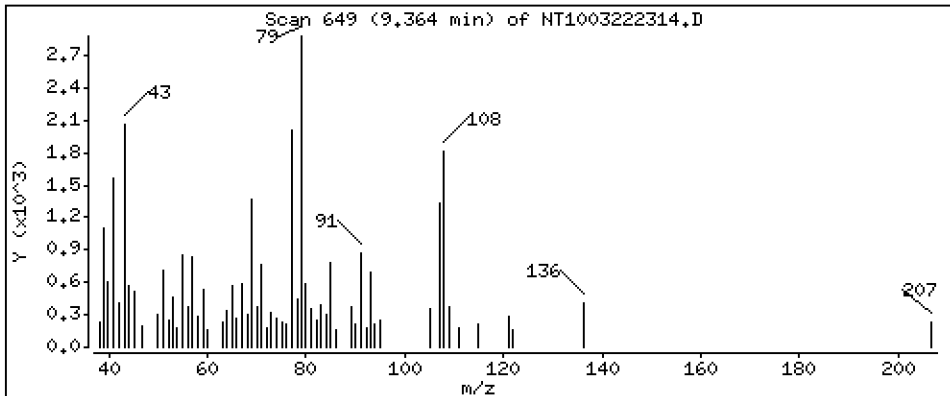
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1069 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

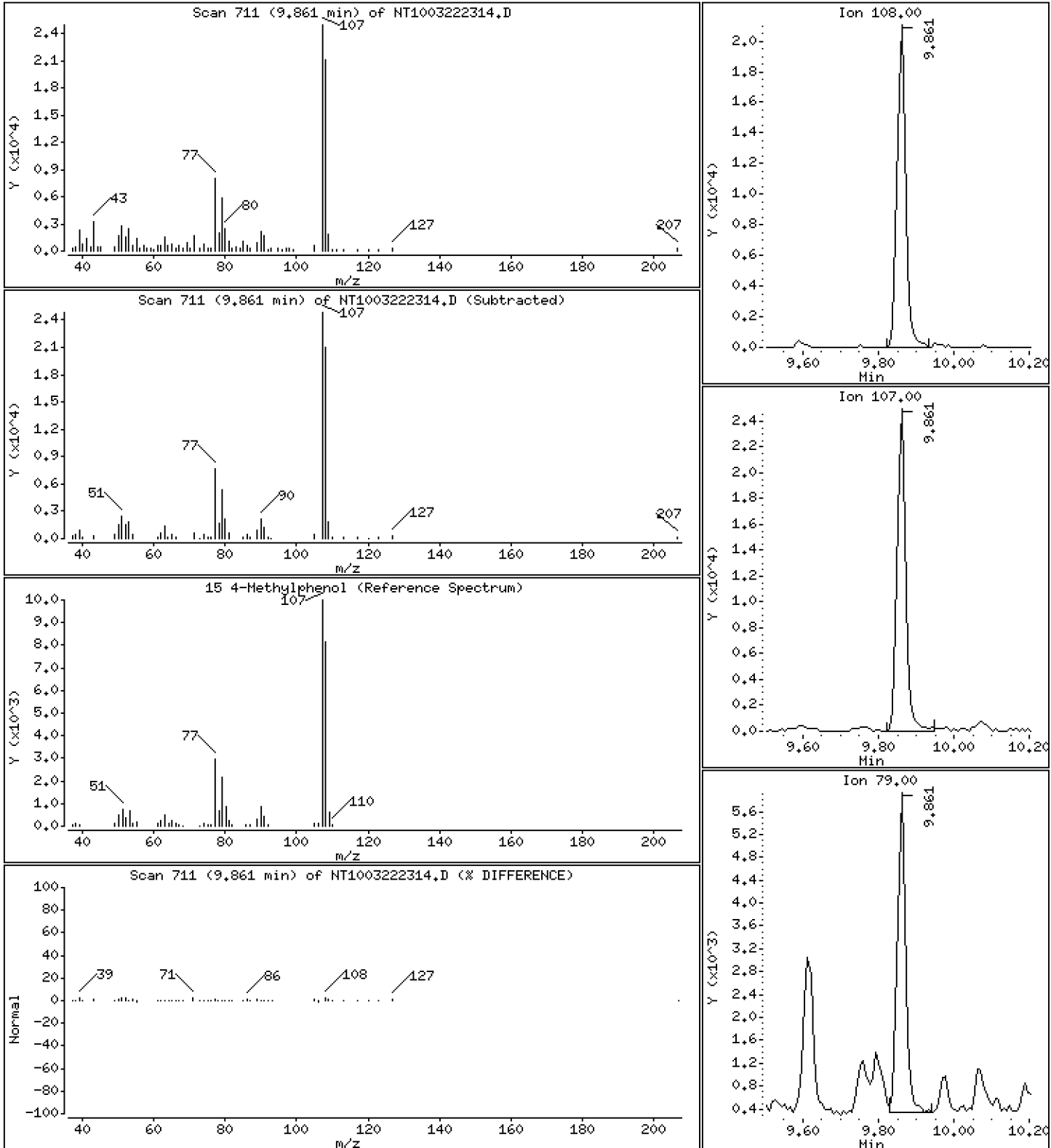
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.5977 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

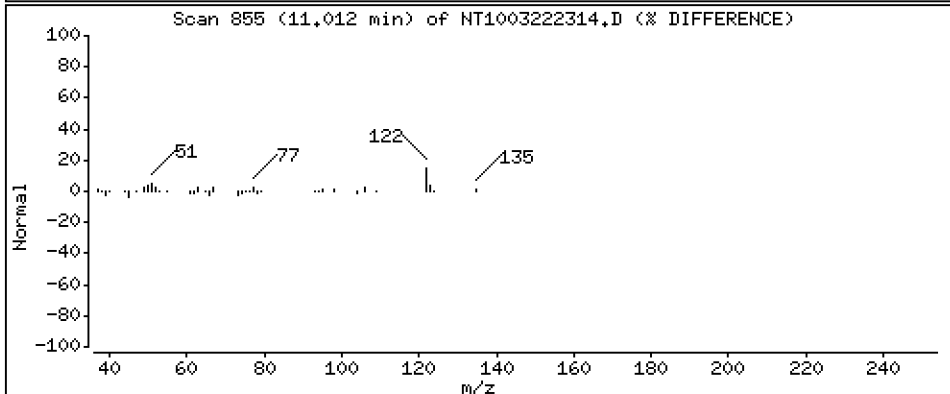
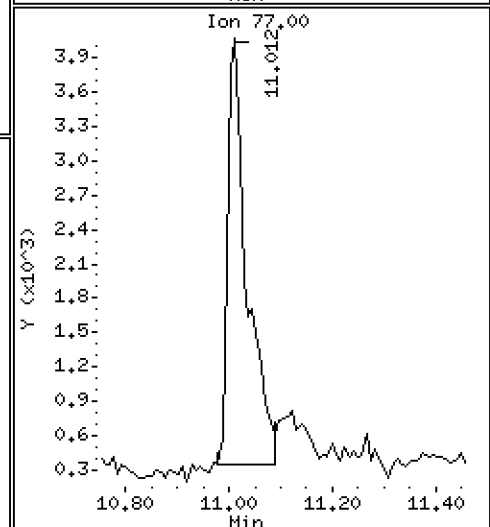
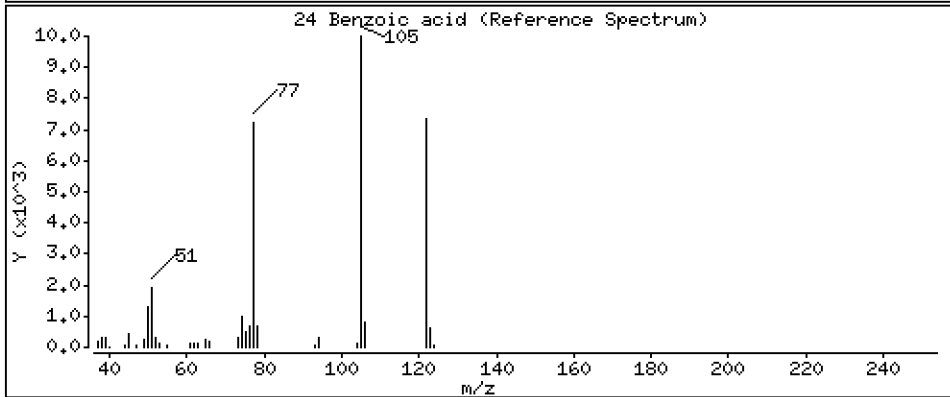
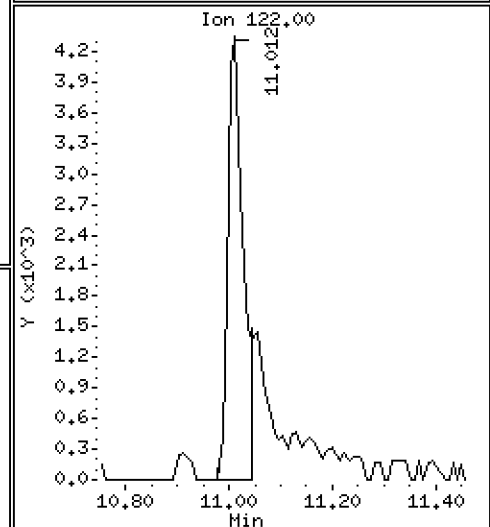
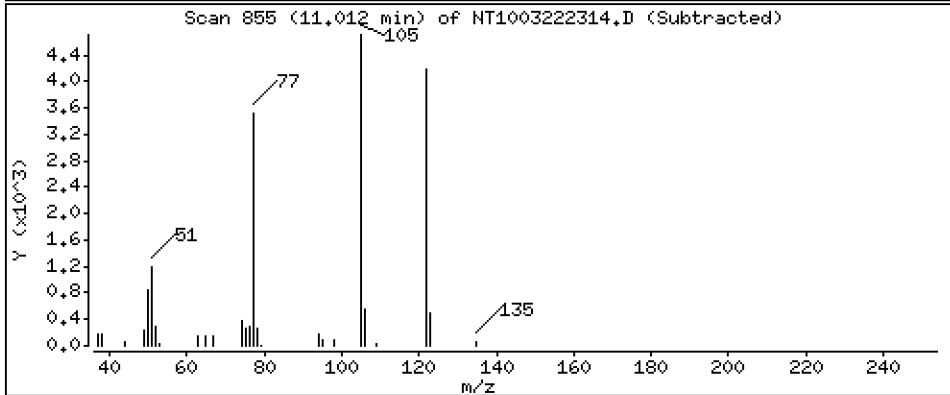
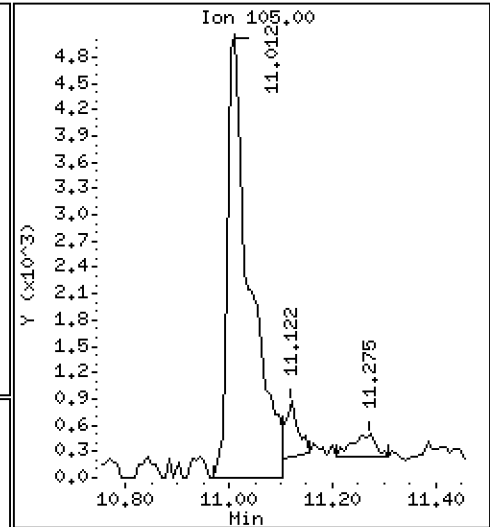
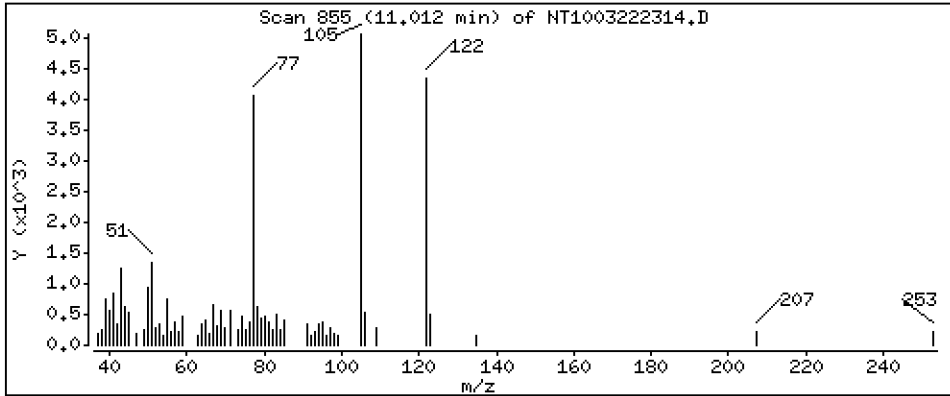
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,5000 ug/mL





Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

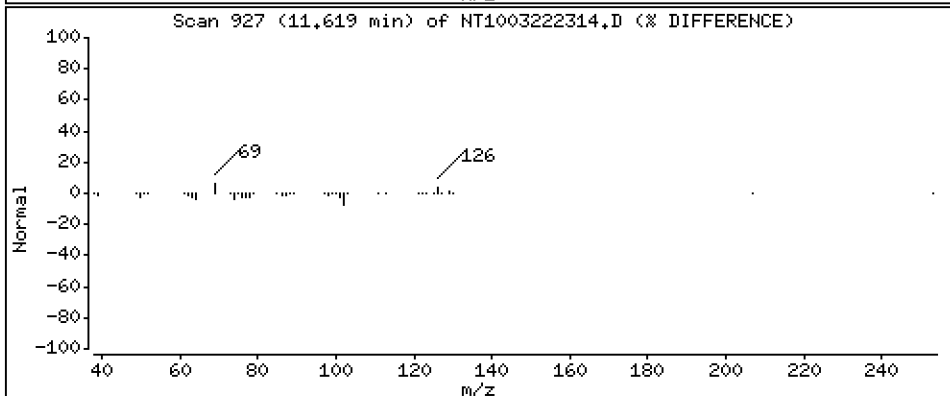
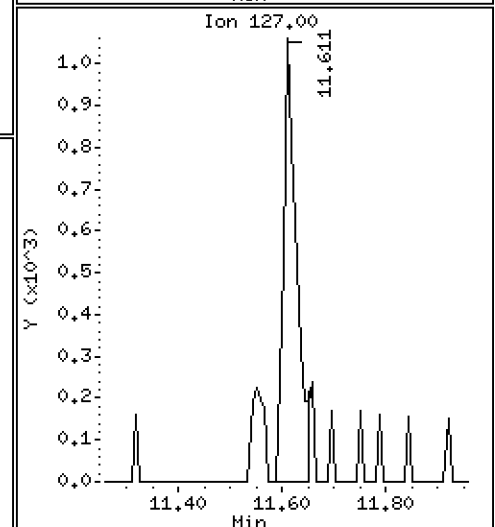
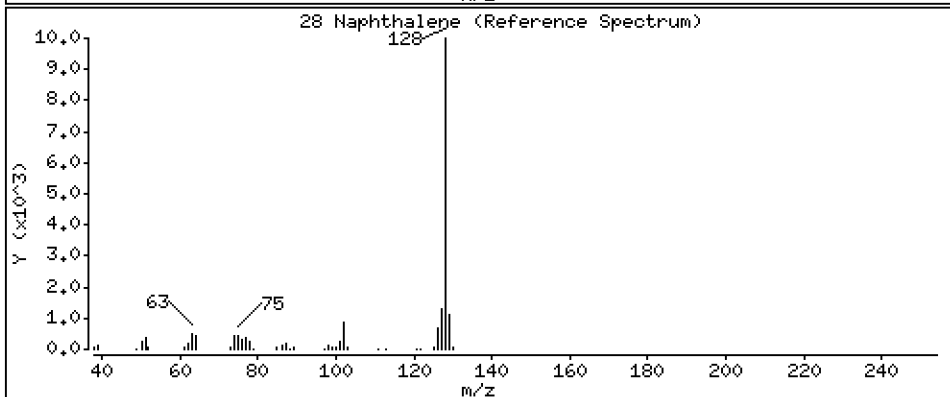
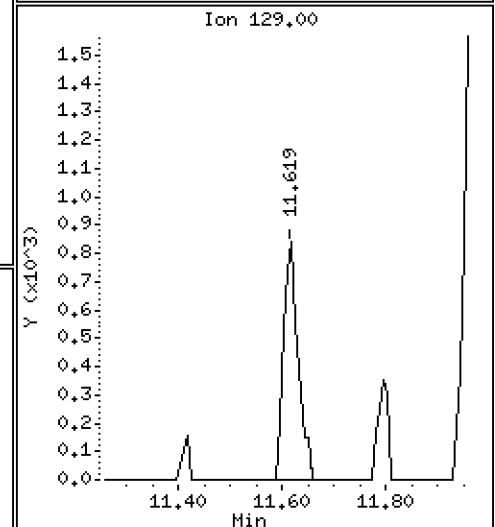
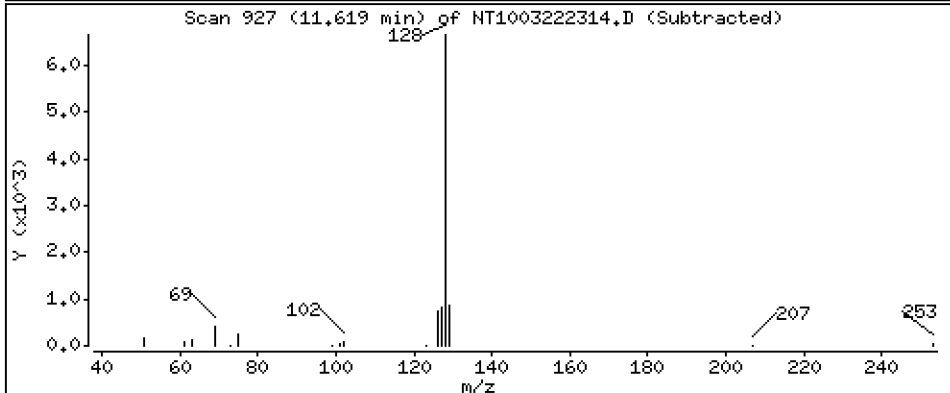
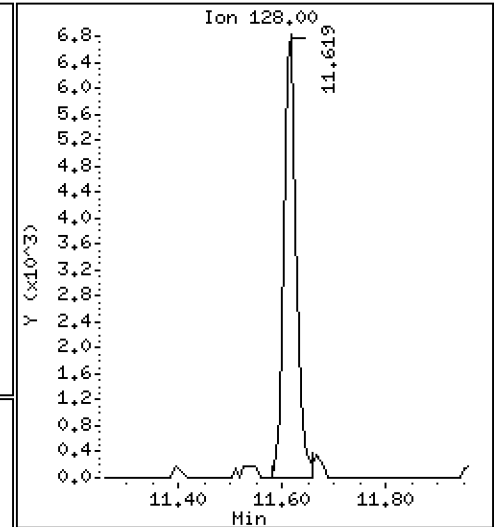
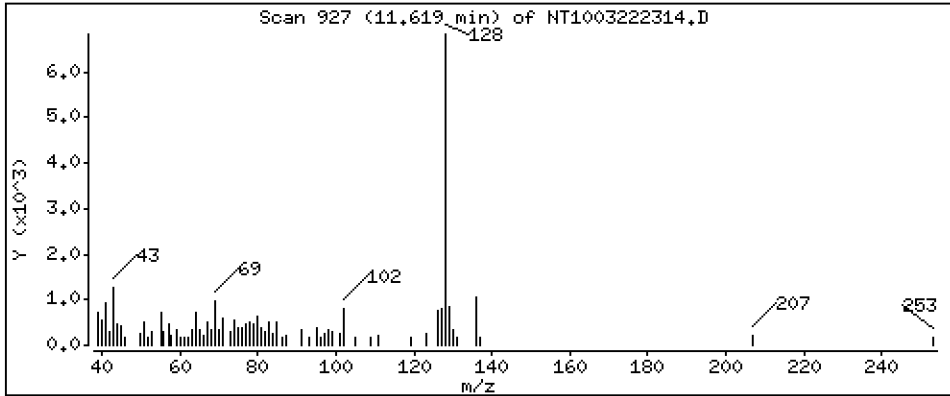
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 0.06892 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

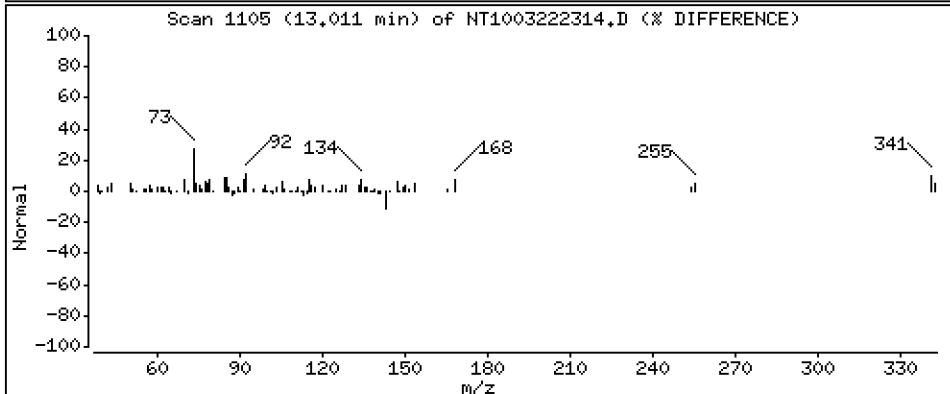
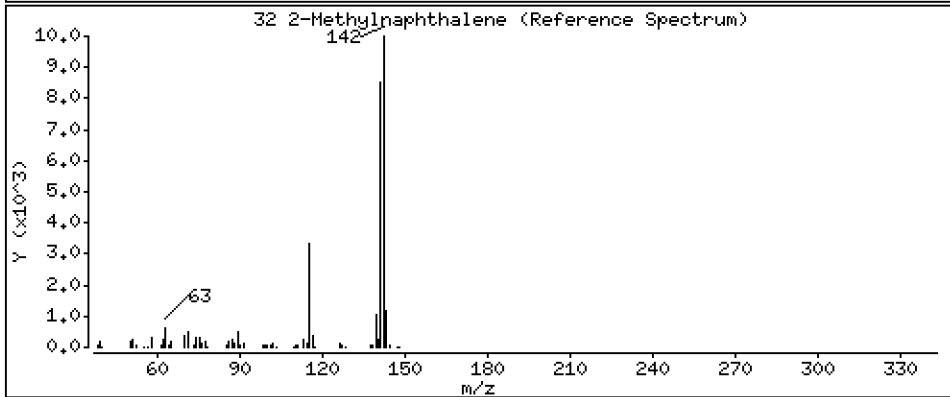
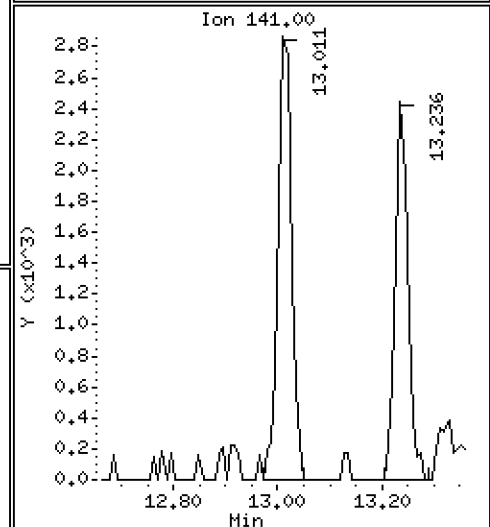
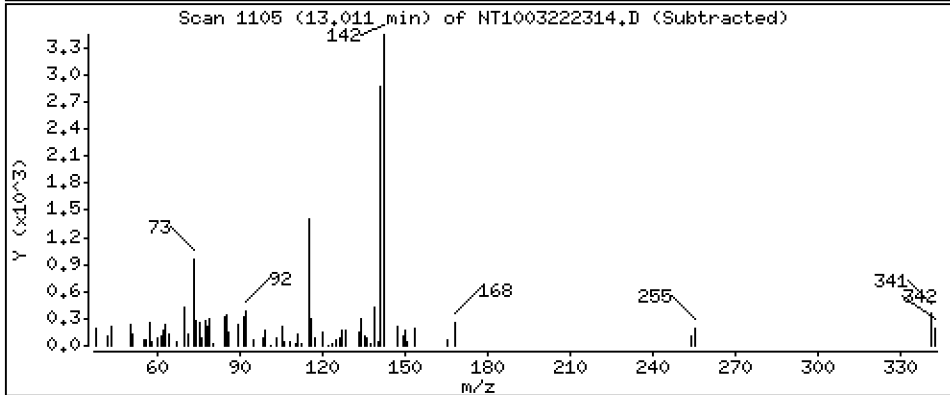
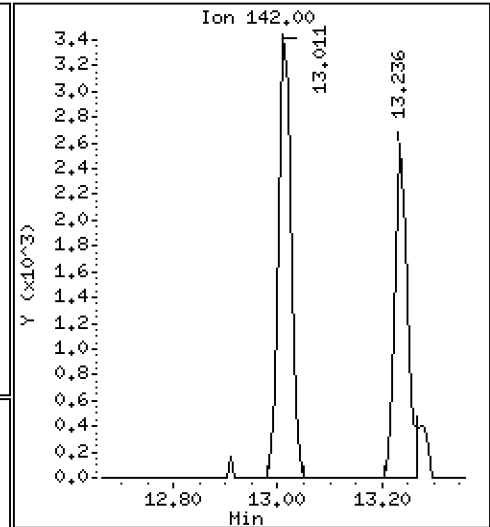
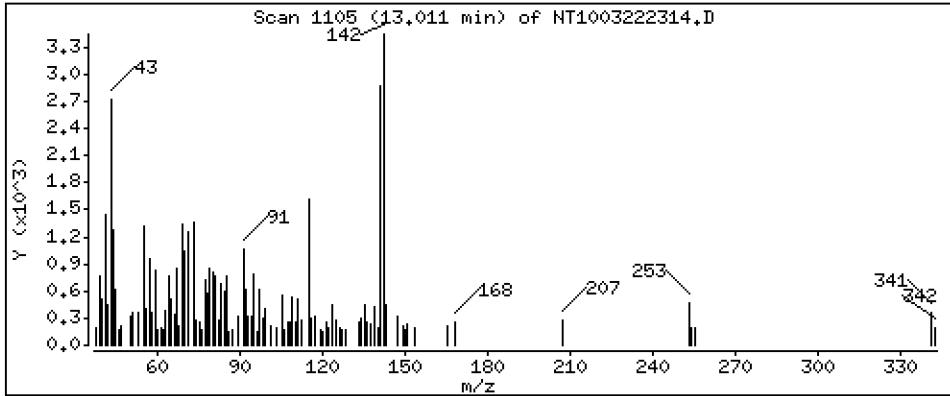
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,04567 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

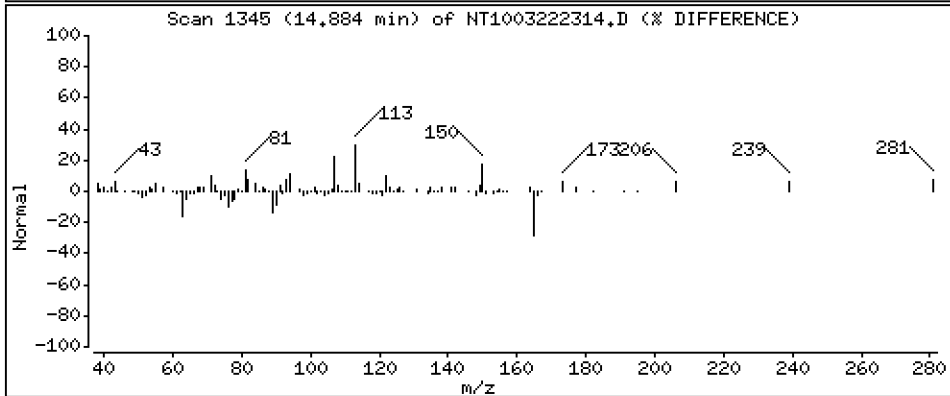
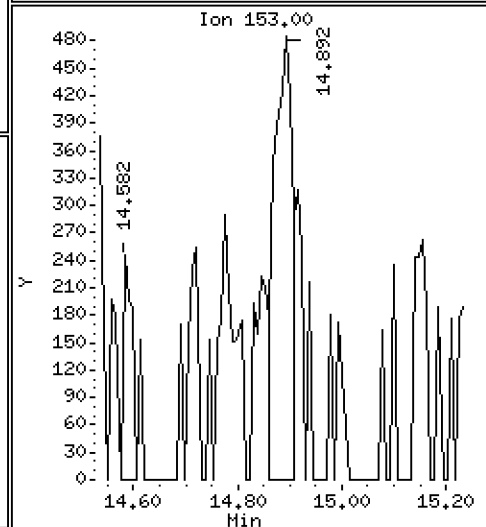
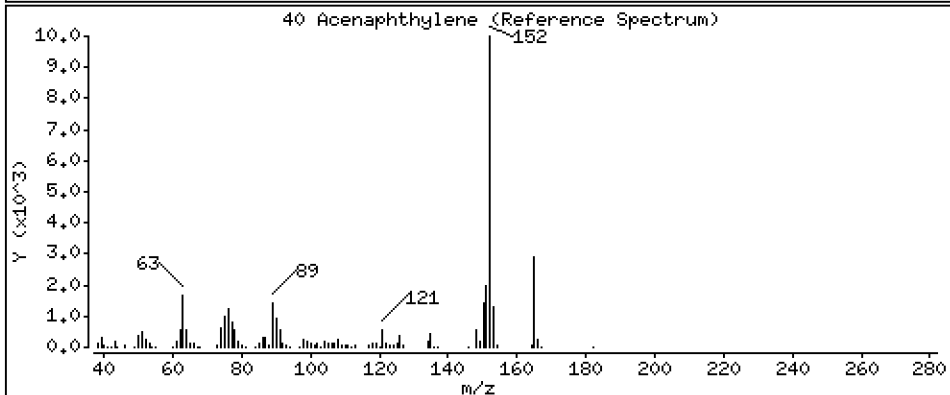
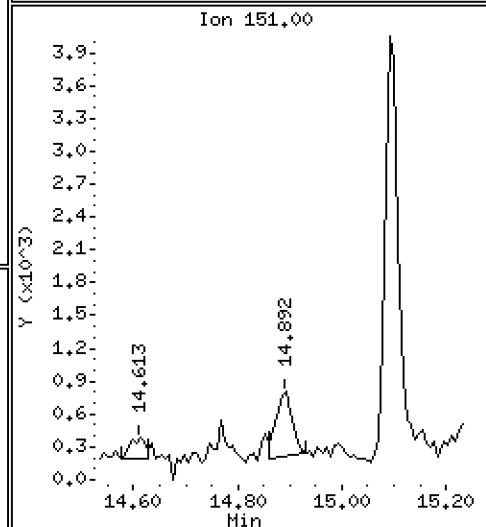
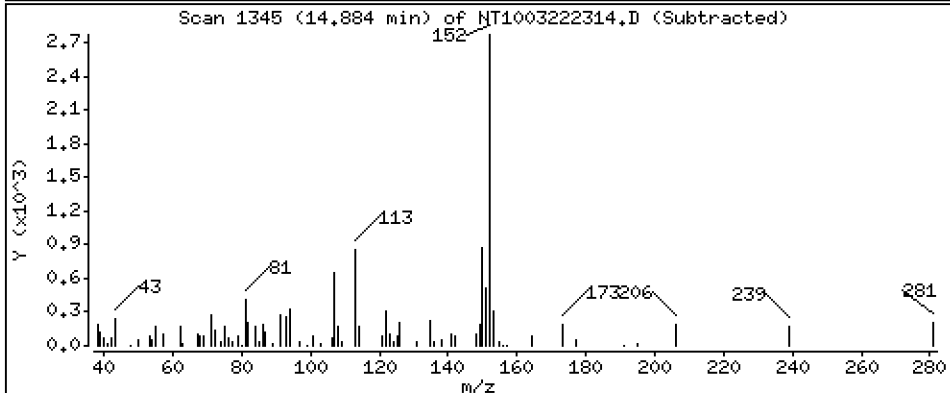
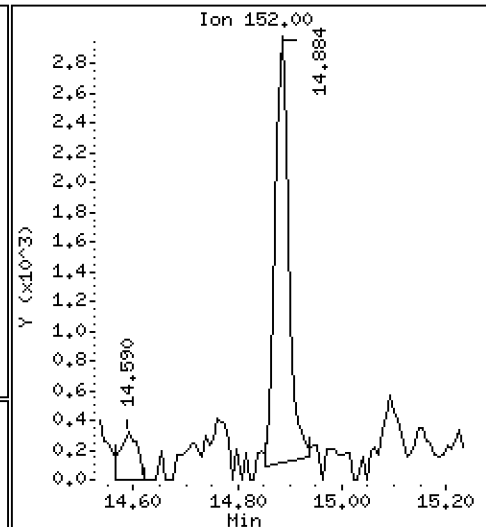
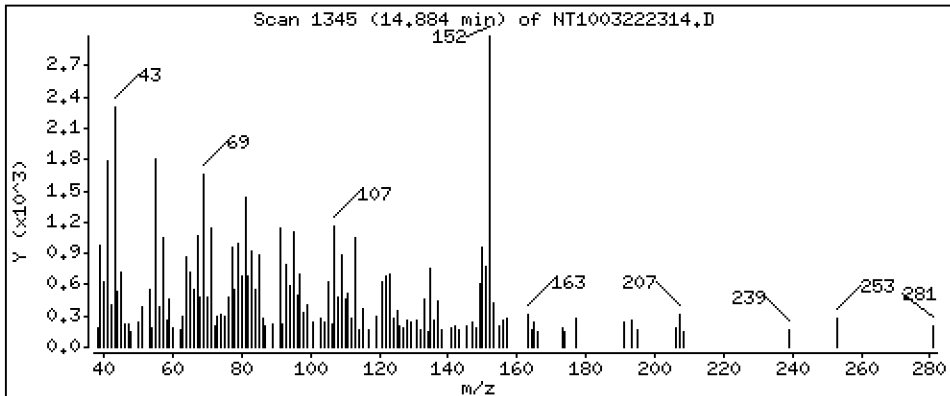
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 0.02915 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

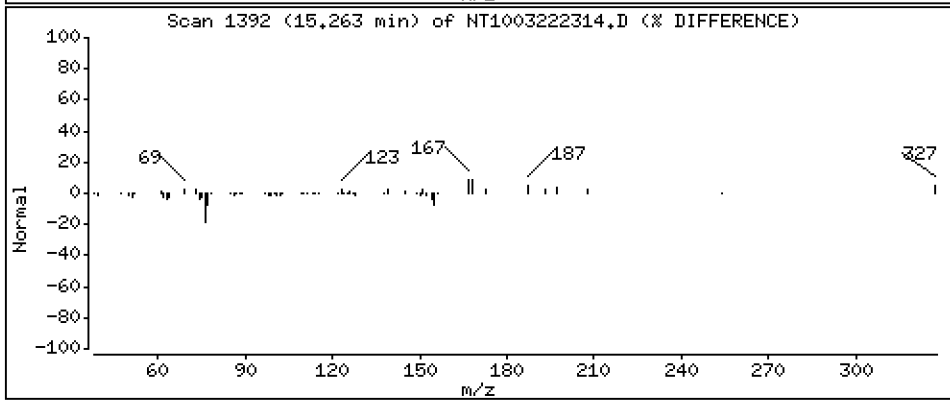
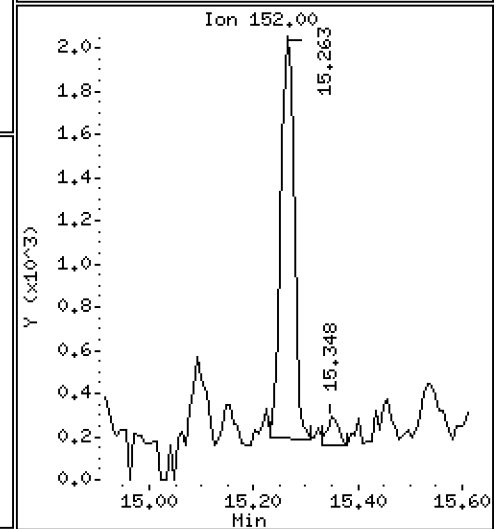
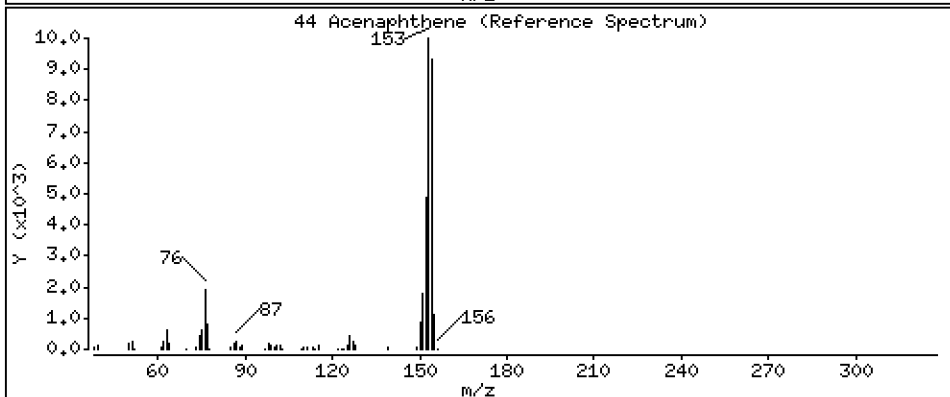
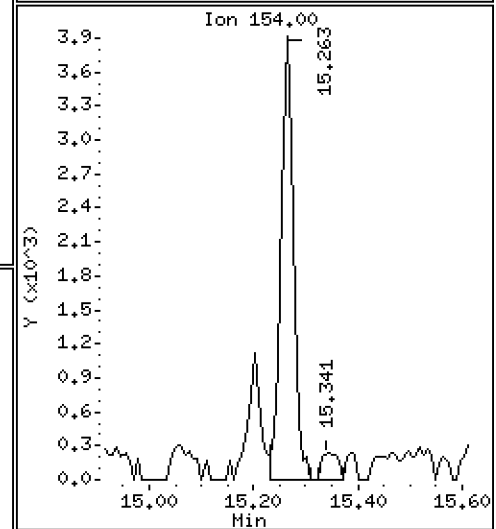
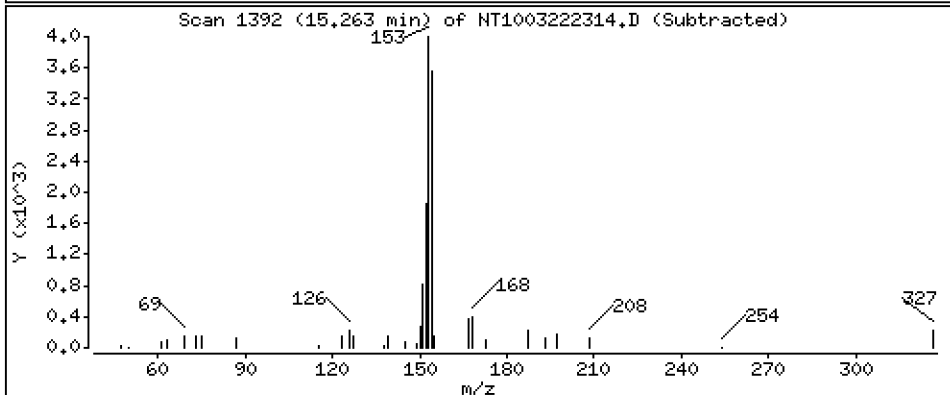
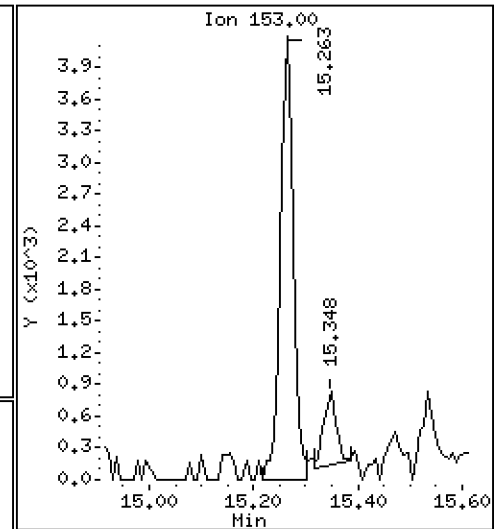
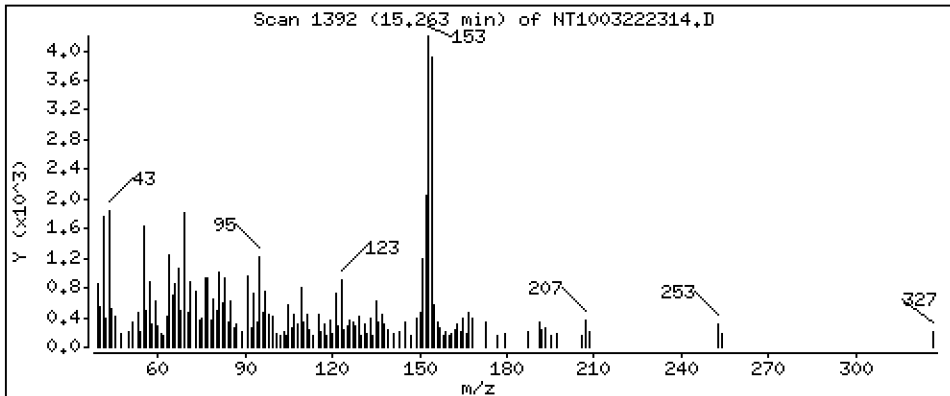
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 0.06515 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

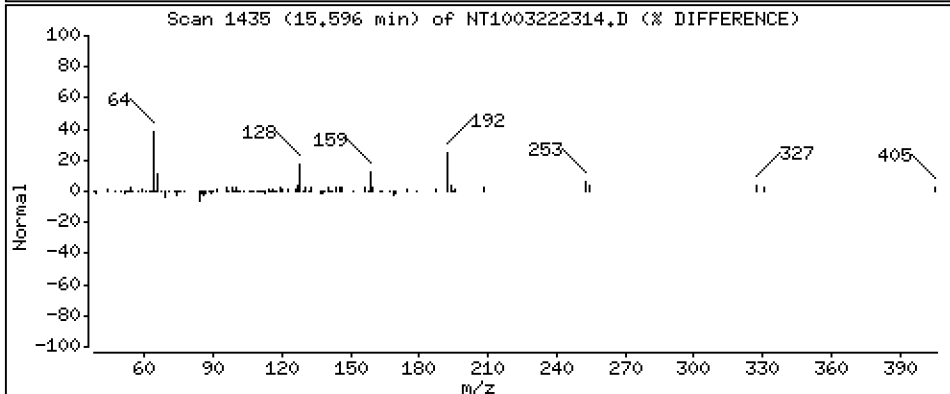
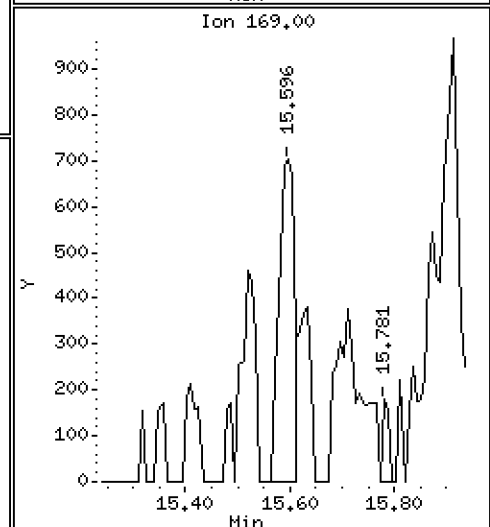
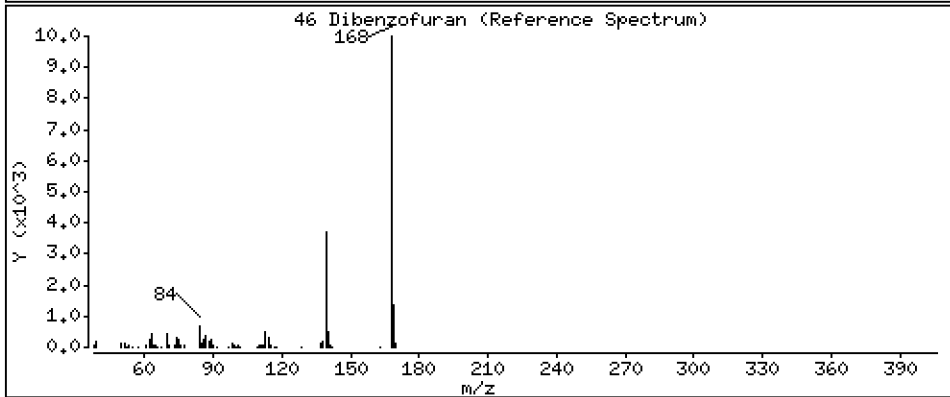
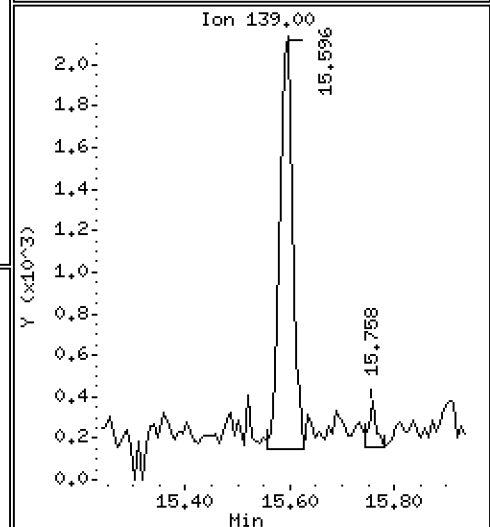
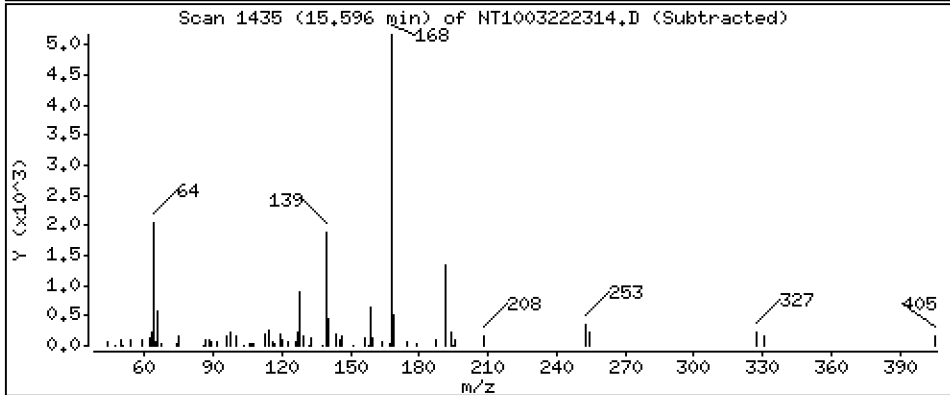
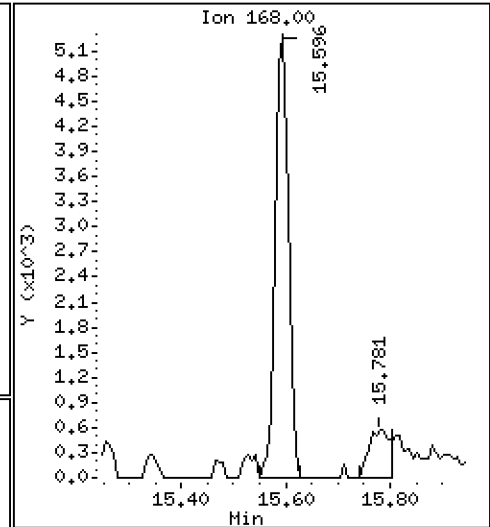
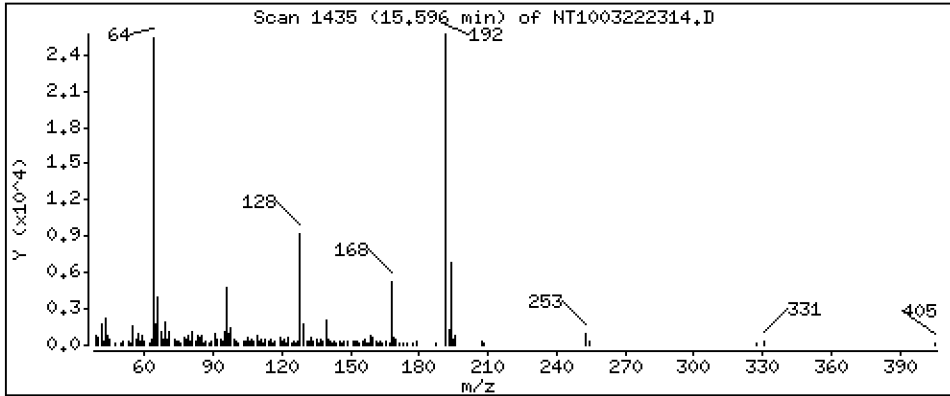
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

46 Dibenzofuran

Concentration: 0.05737 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

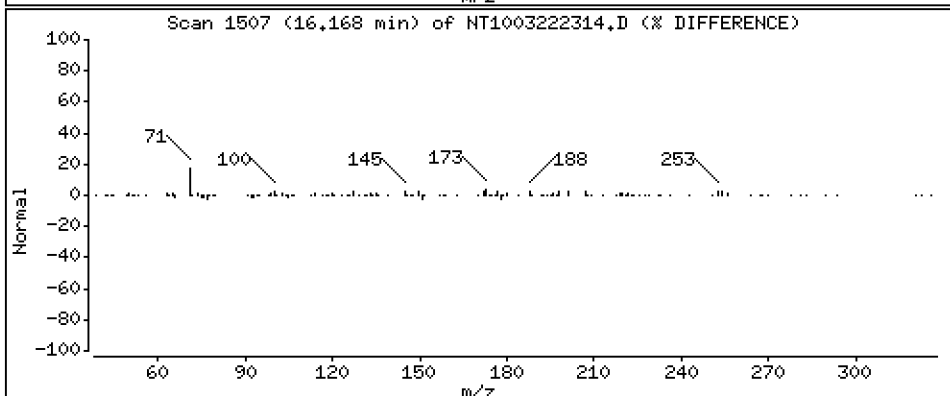
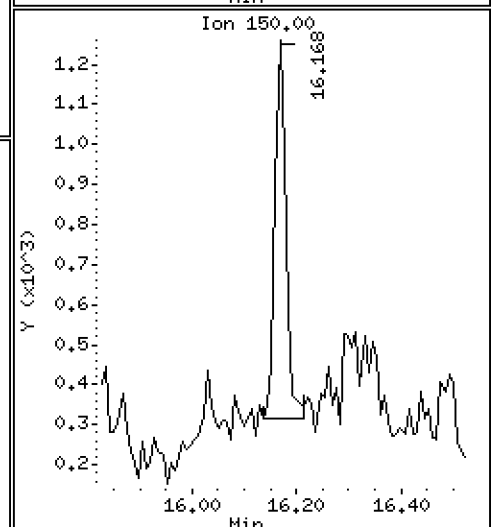
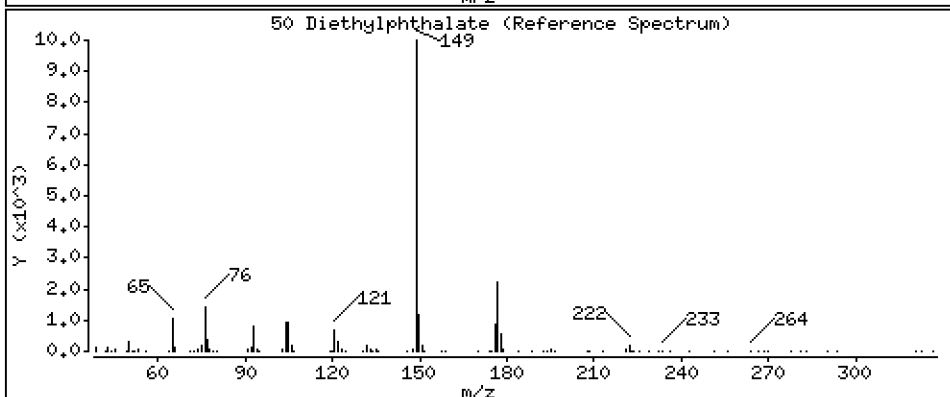
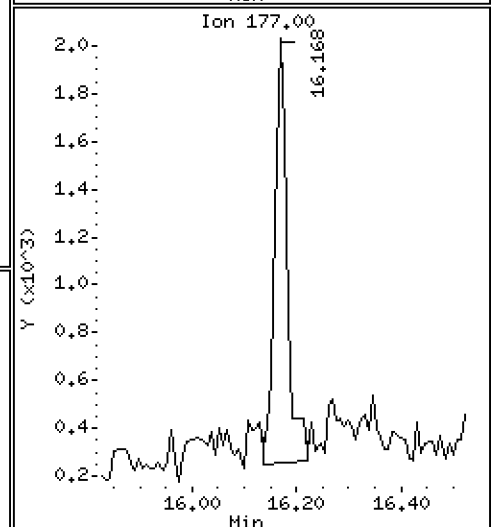
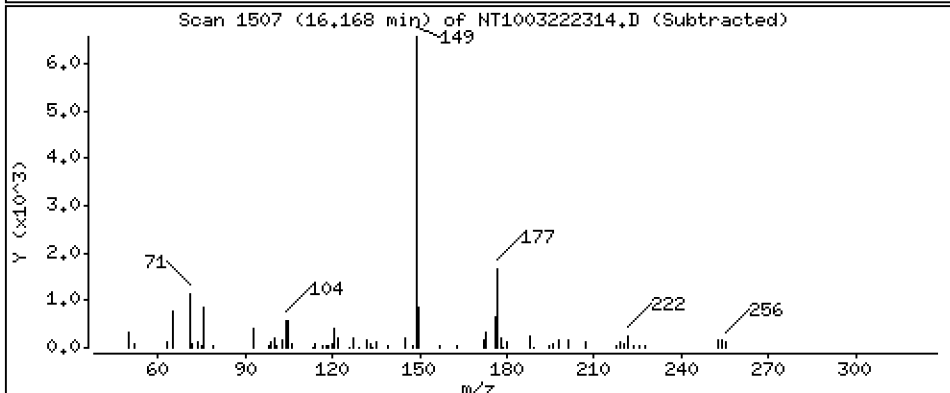
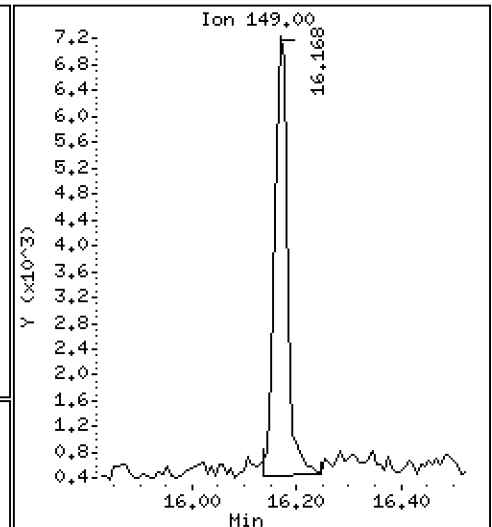
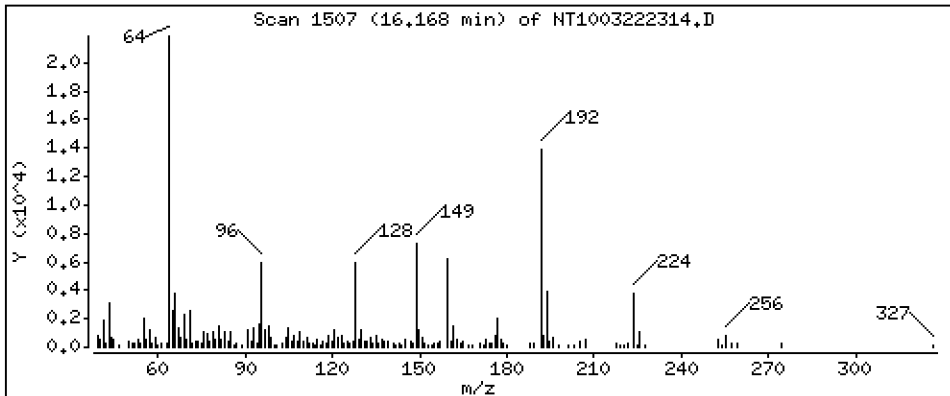
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 0.1153 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

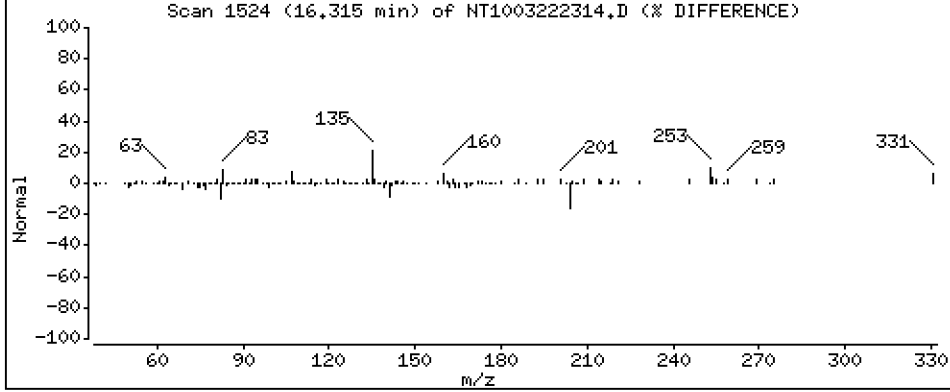
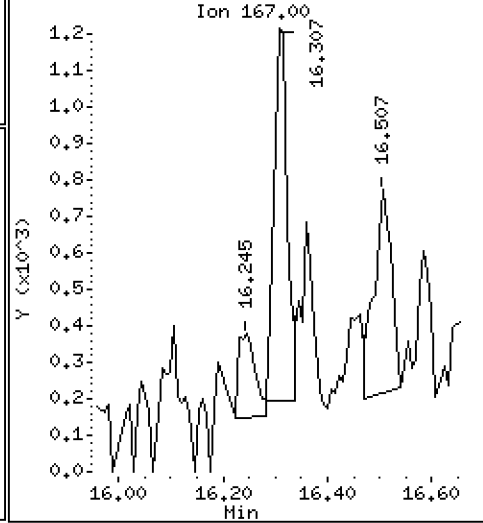
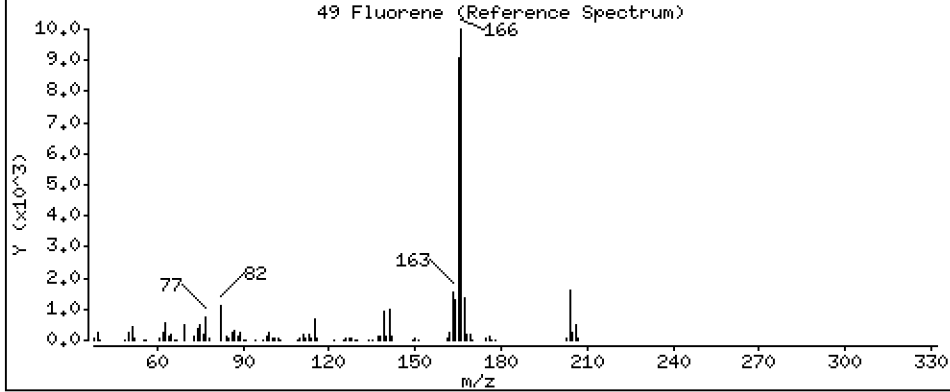
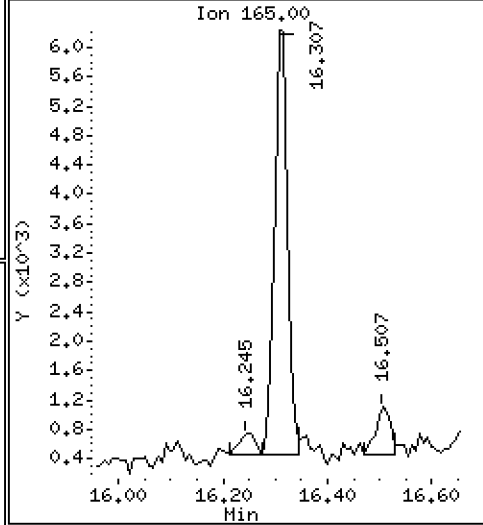
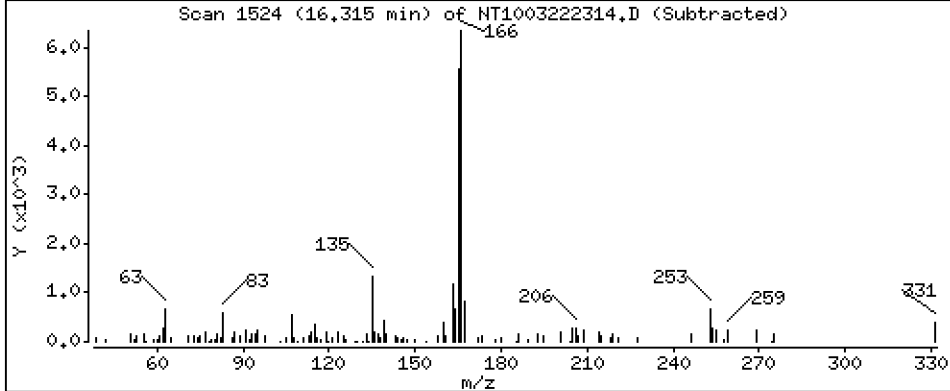
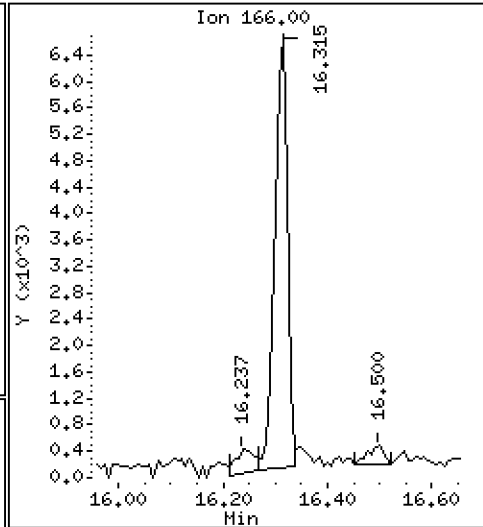
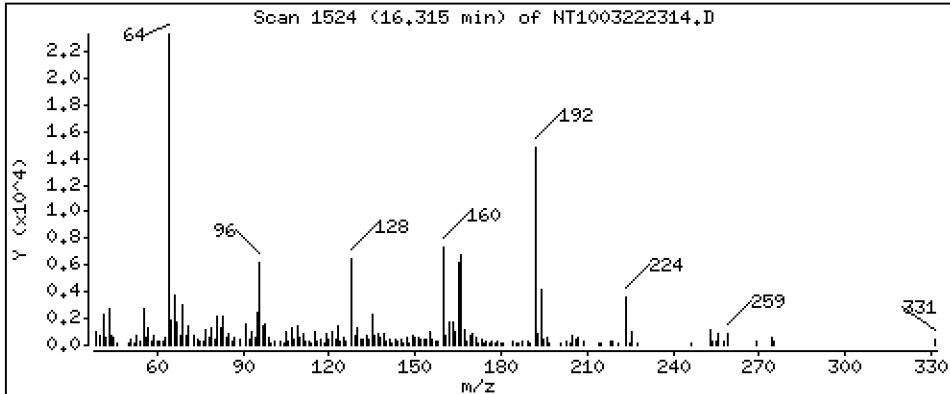
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 0.09186 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

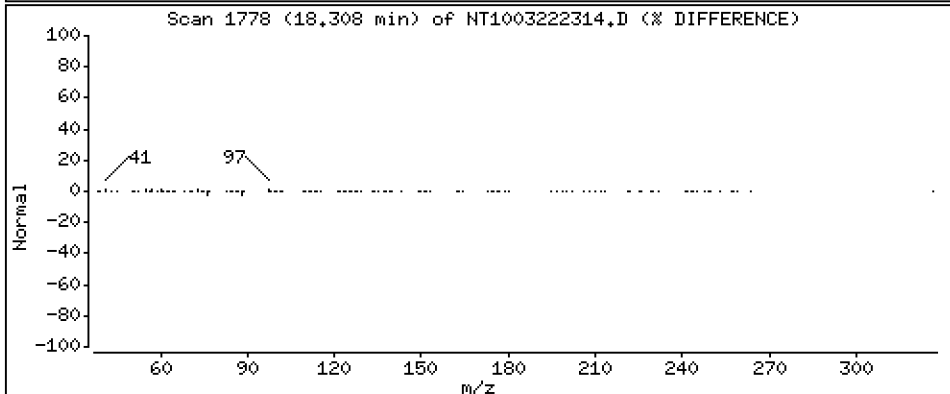
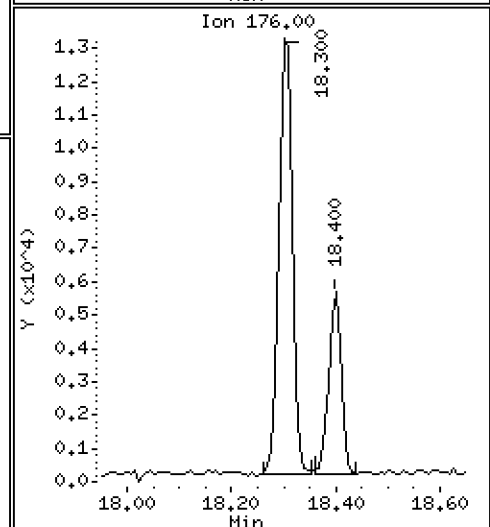
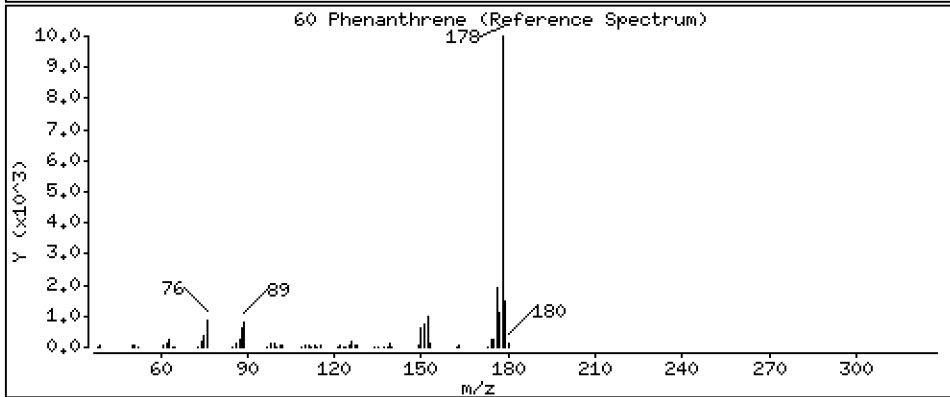
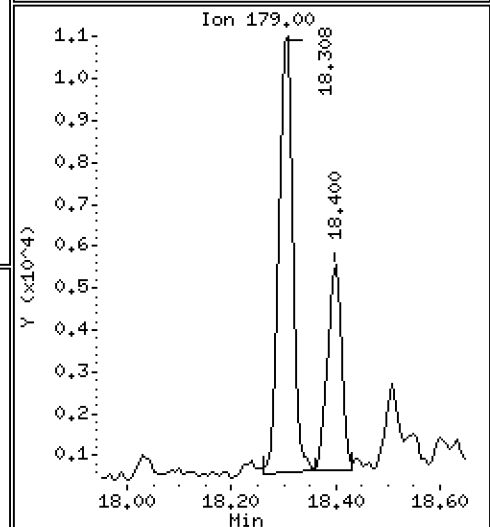
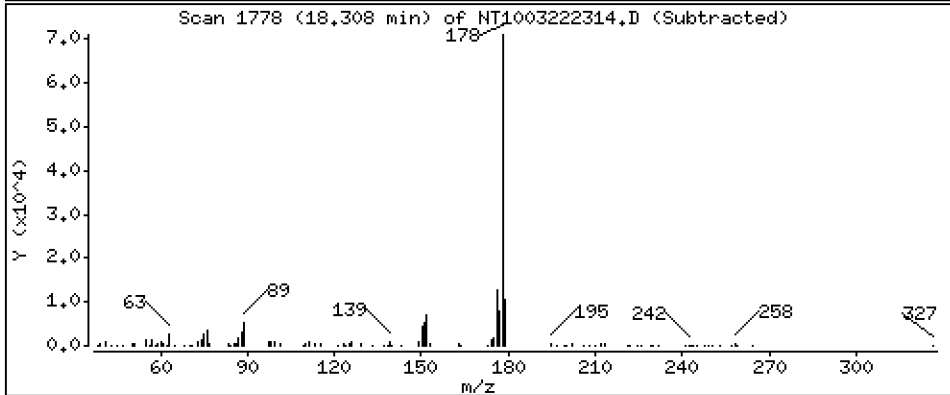
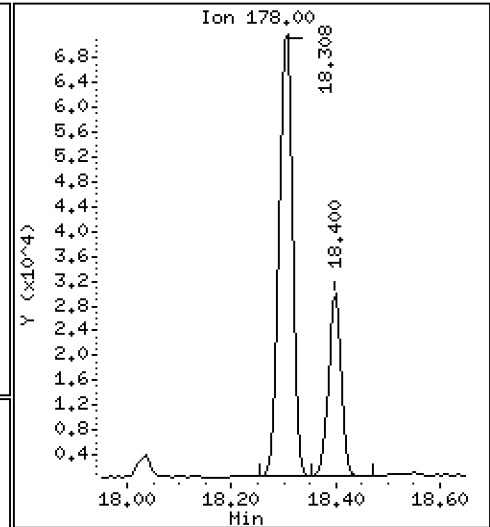
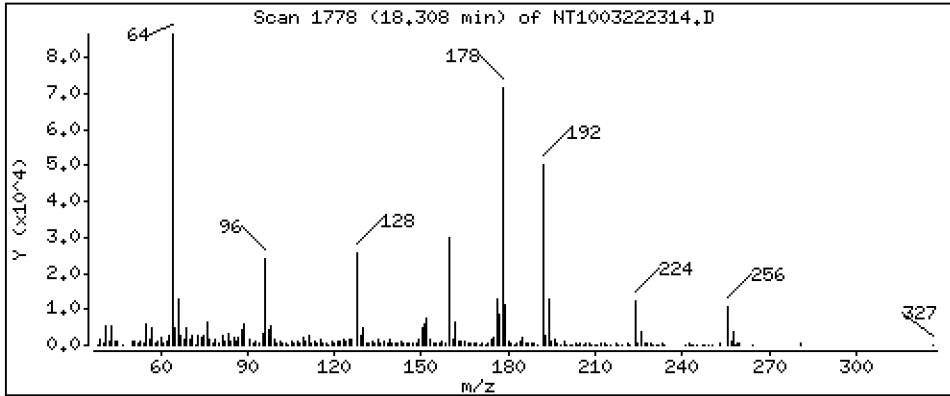
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,7232 ug/mL





Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

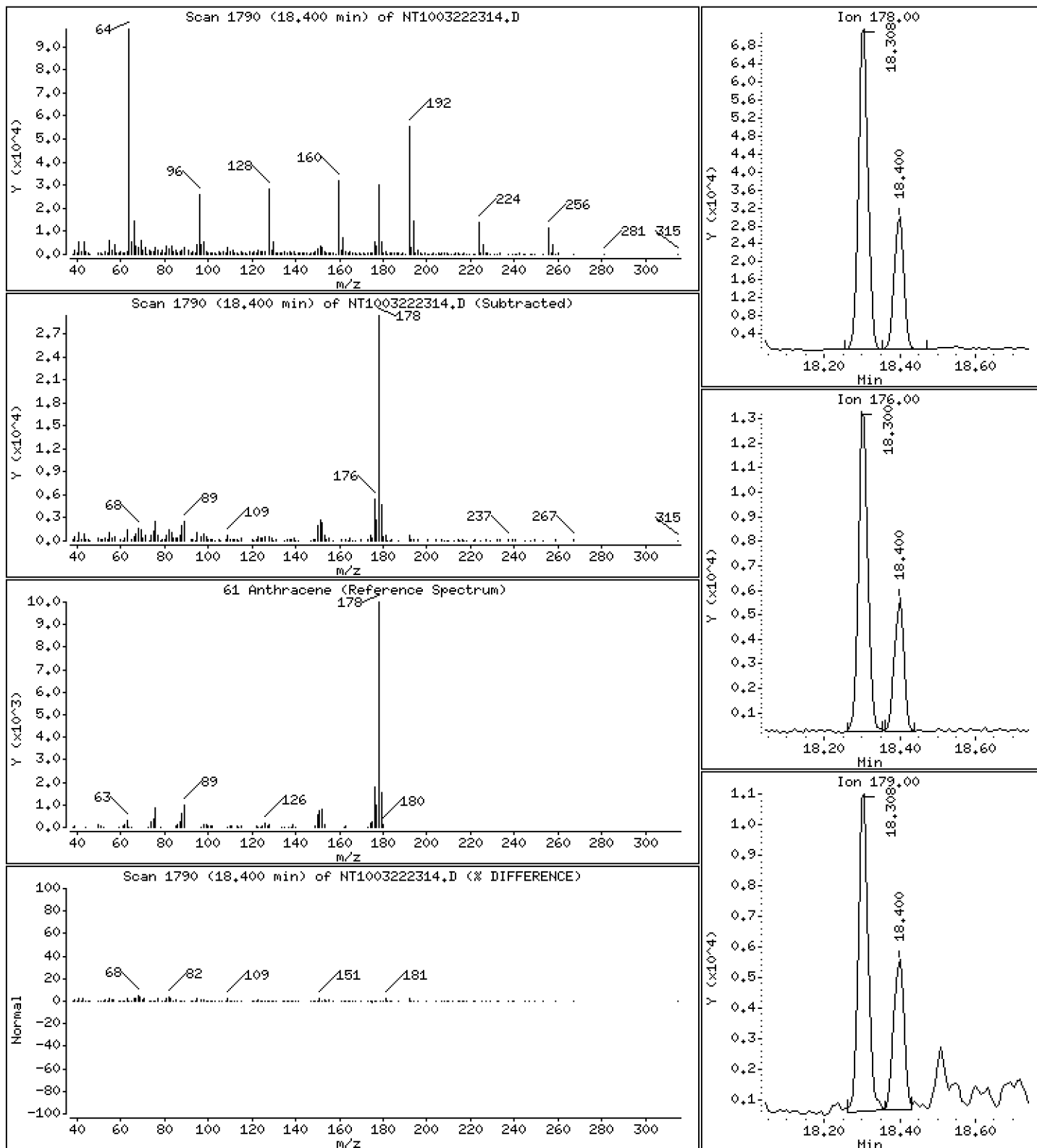
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,3103 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

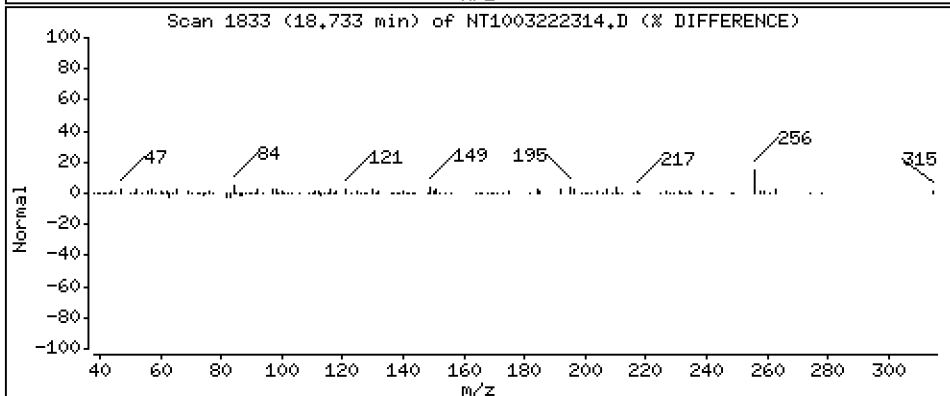
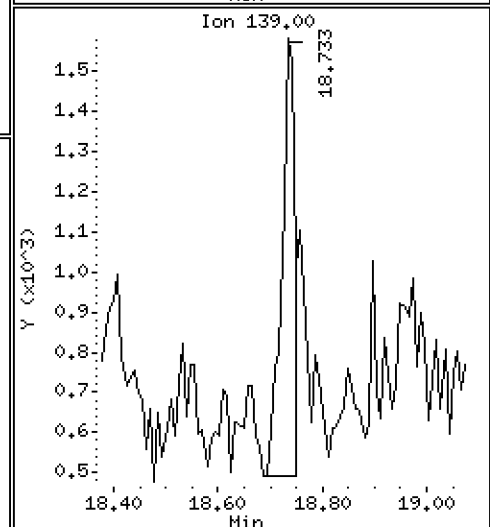
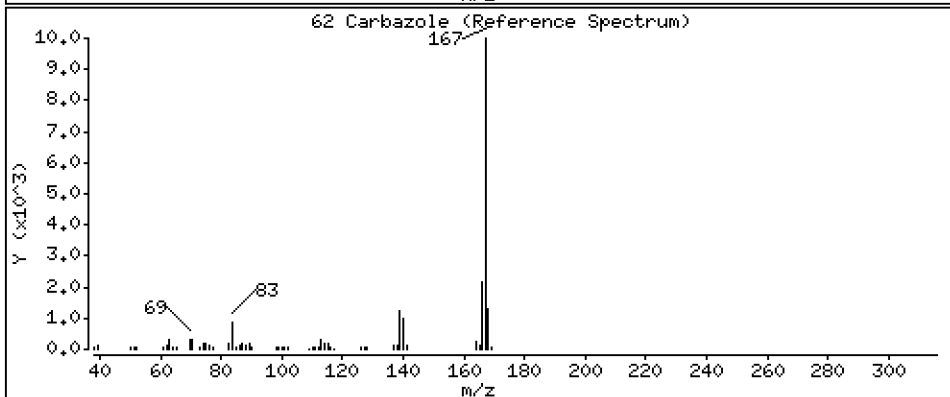
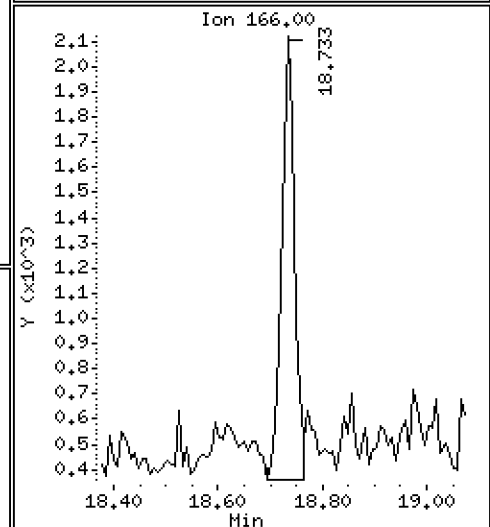
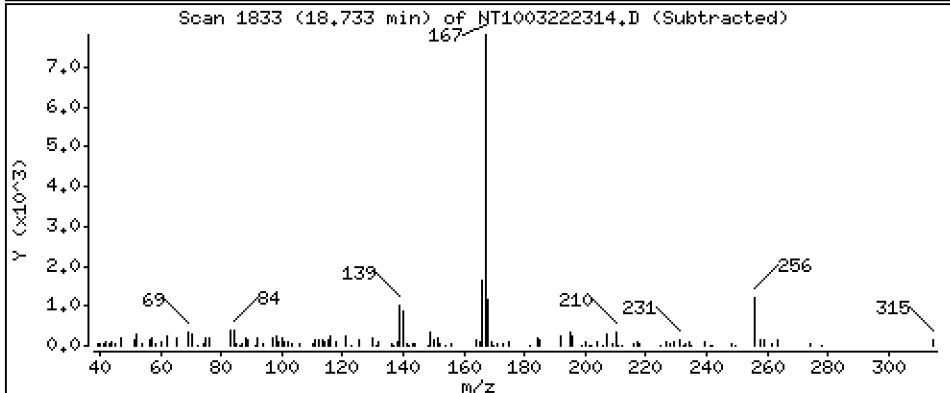
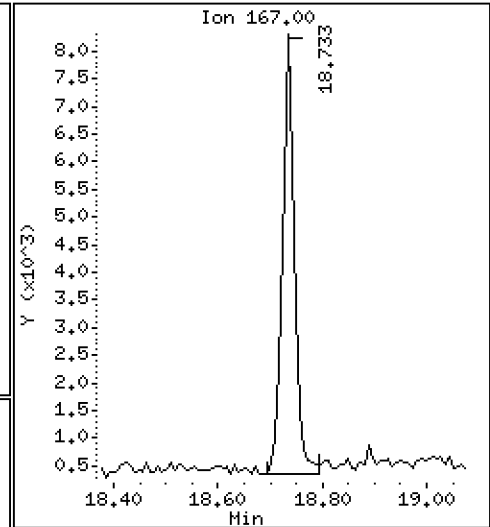
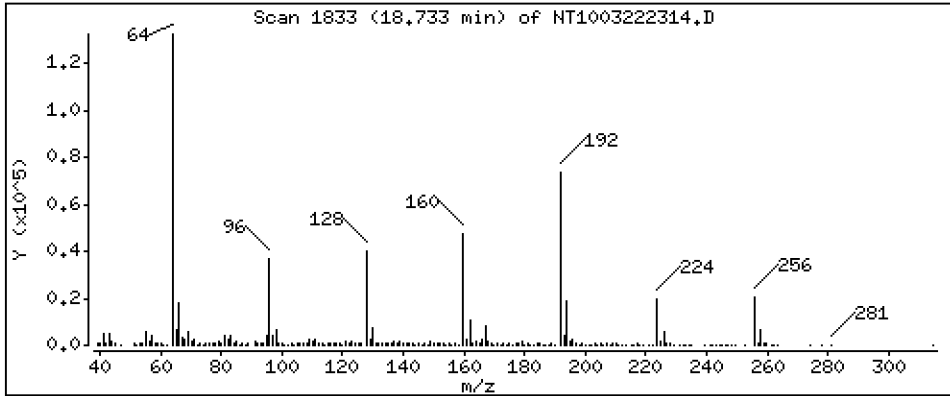
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

62 Carbazole

Concentration: 0.08525 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

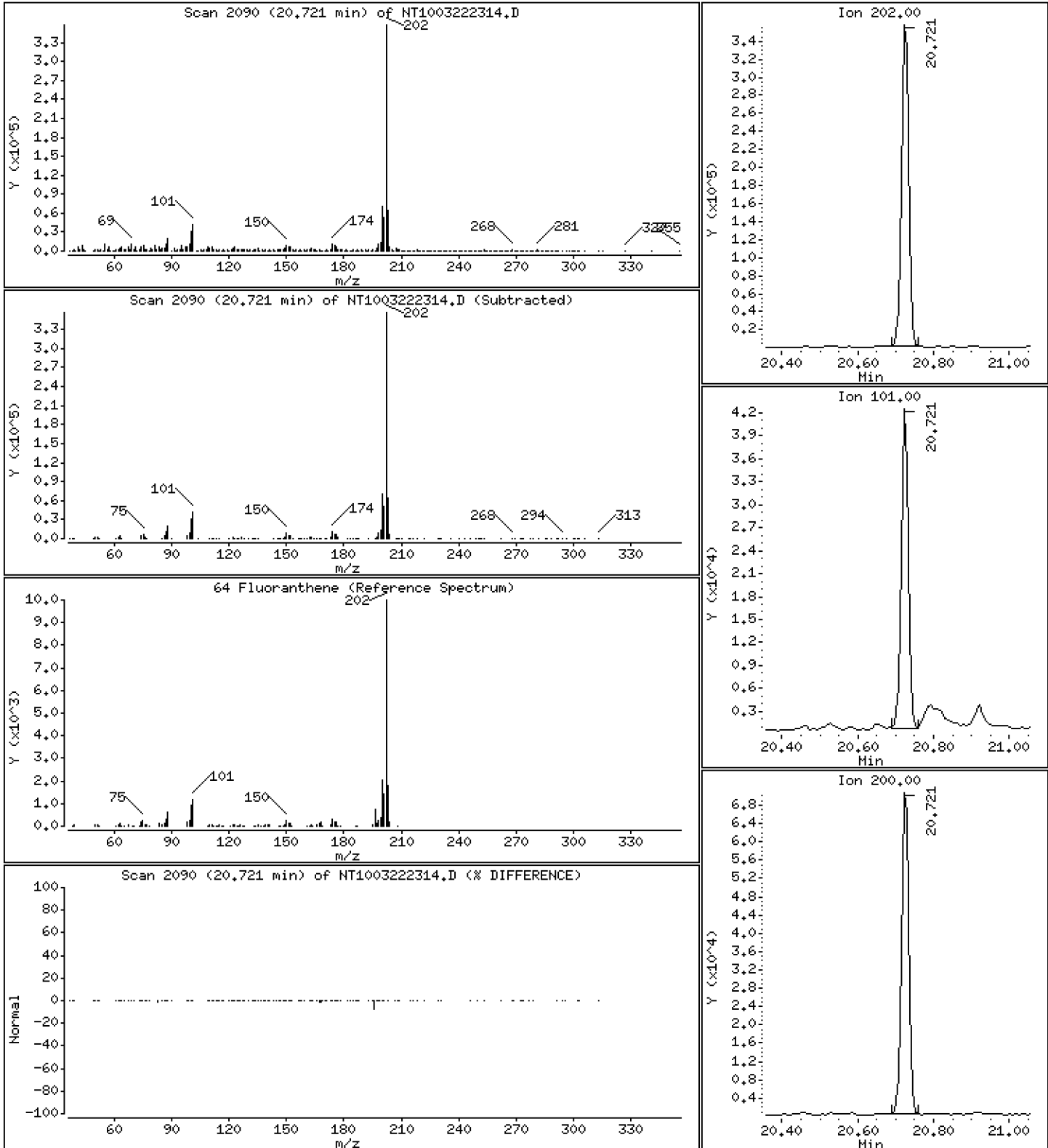
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 2,139 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

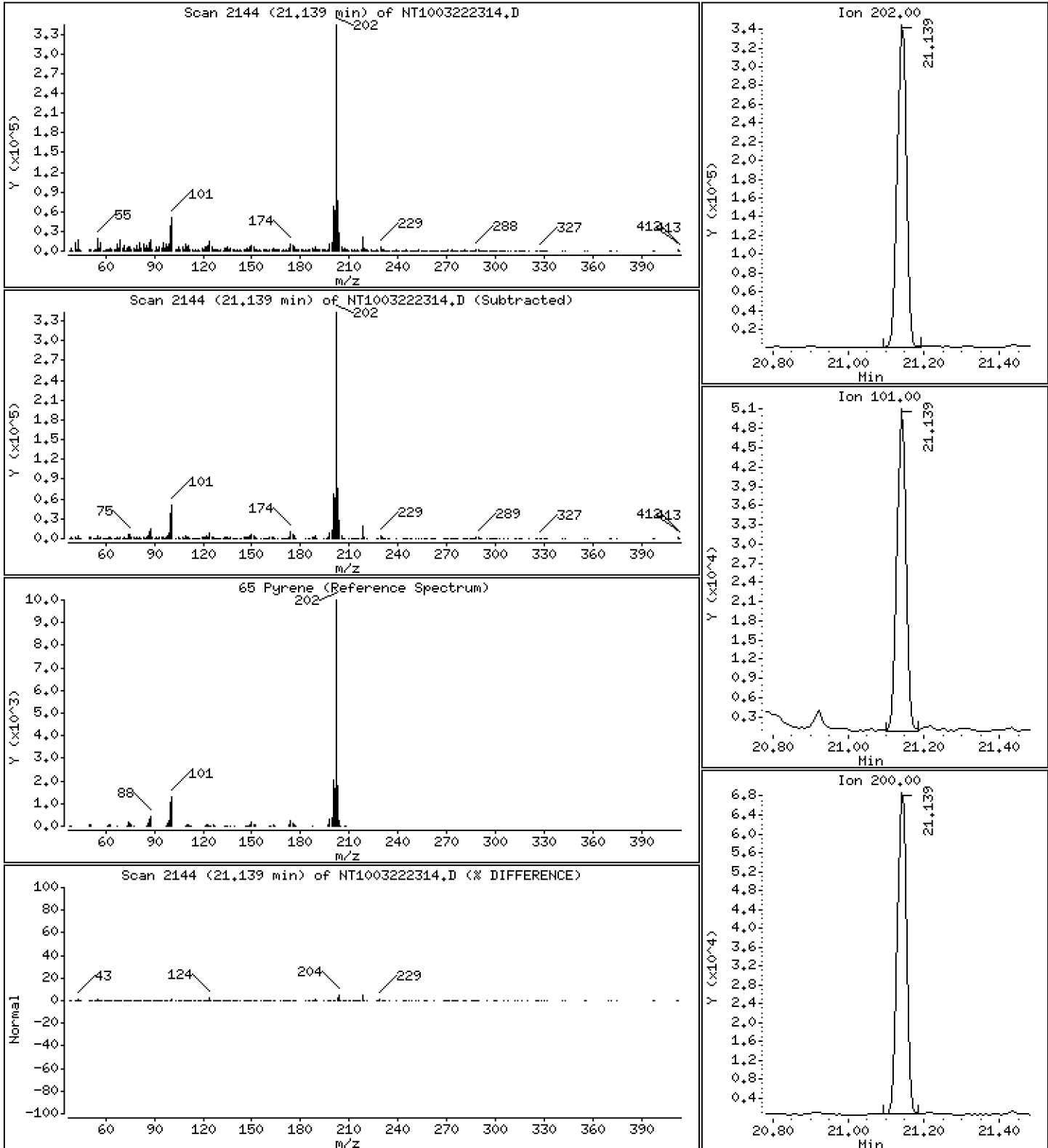
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 2,337 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

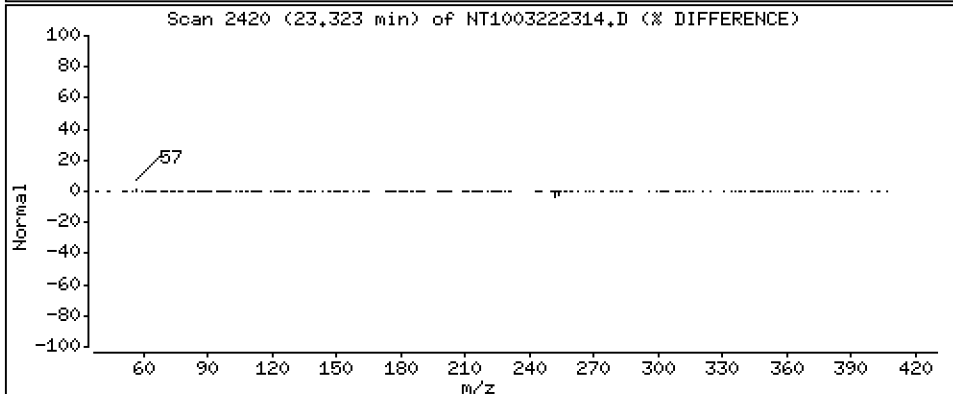
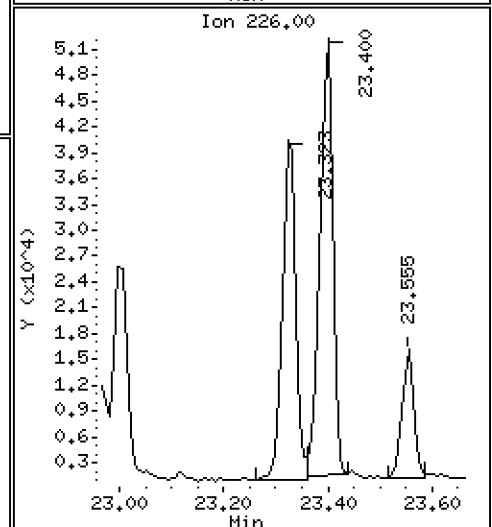
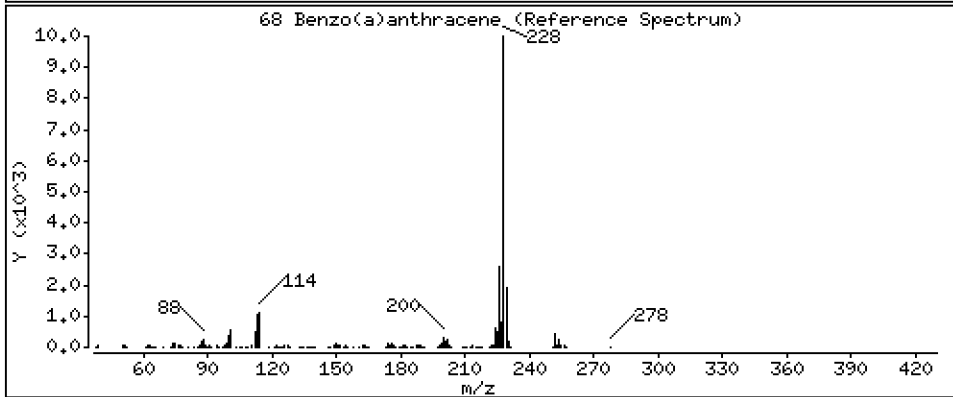
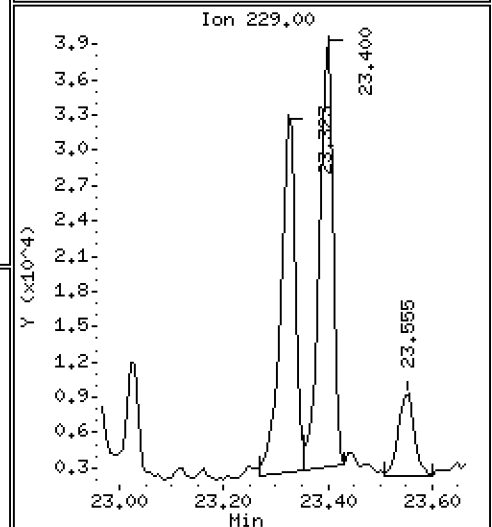
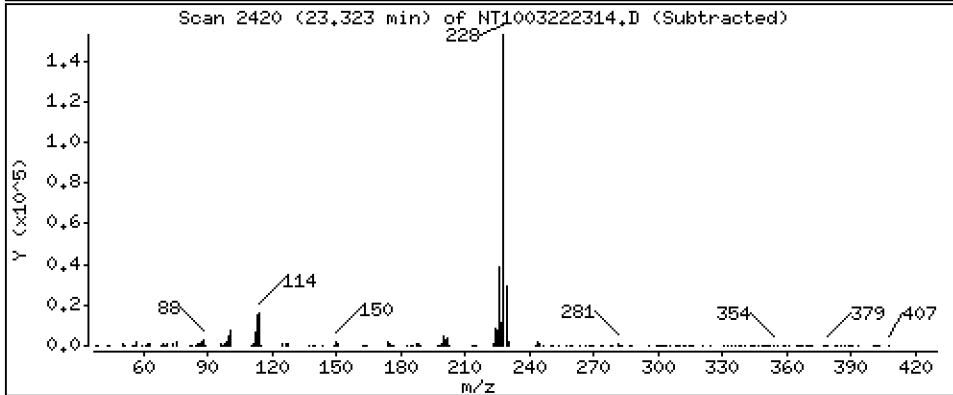
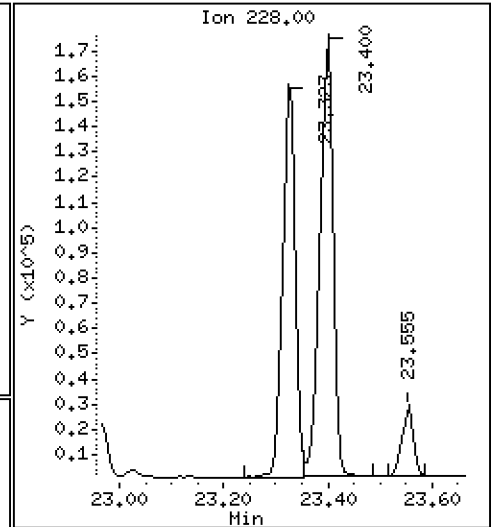
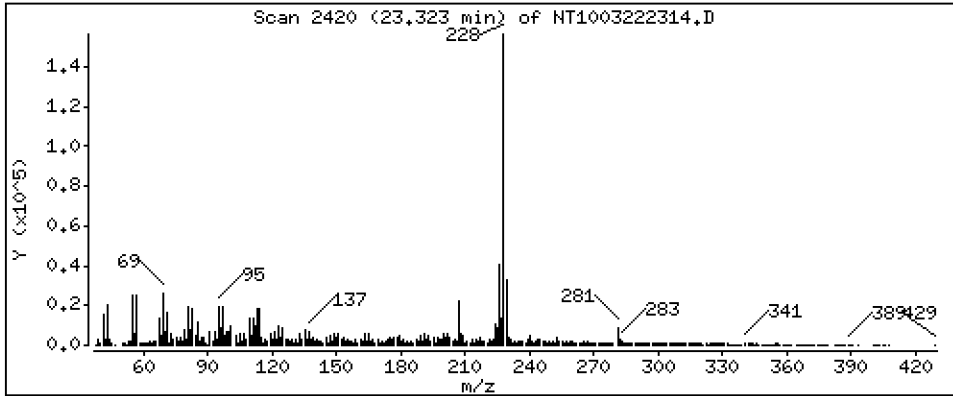
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 1,287 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

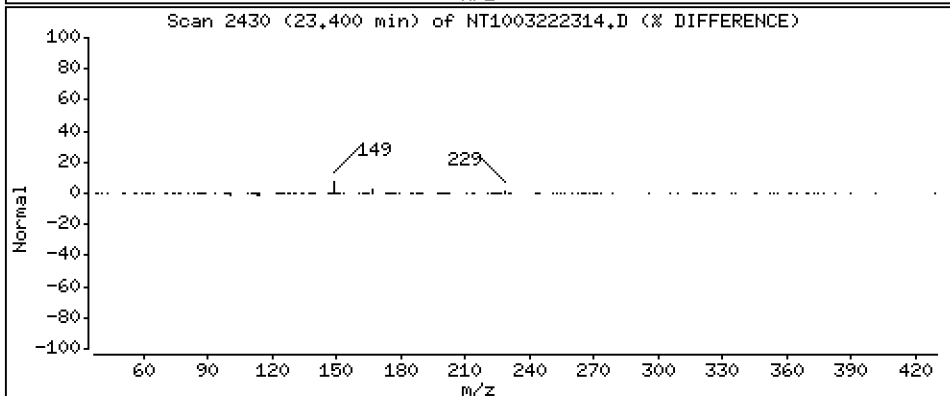
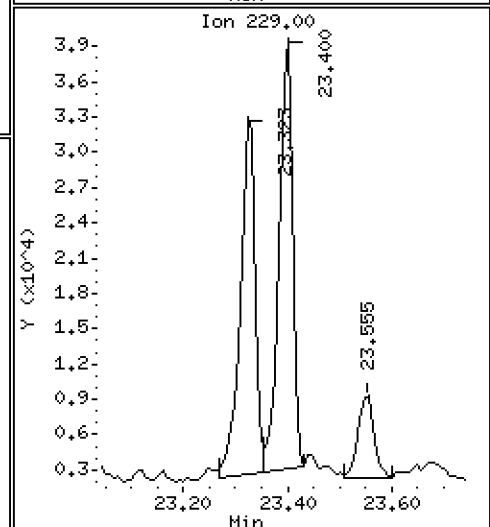
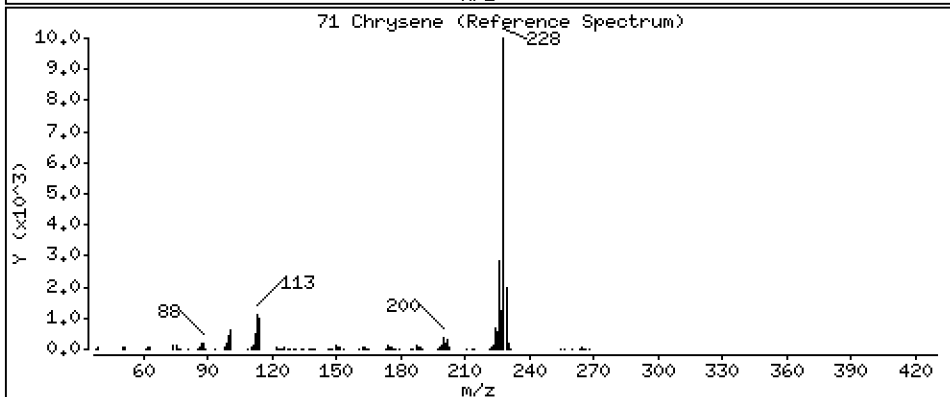
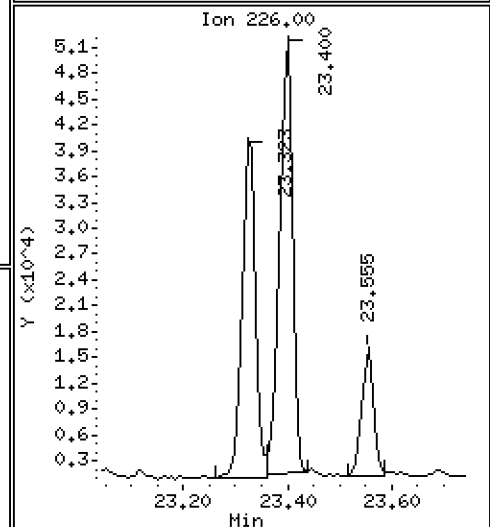
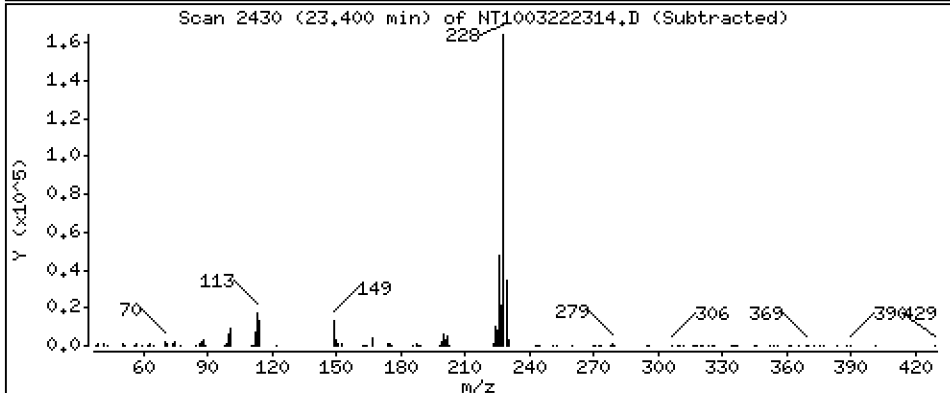
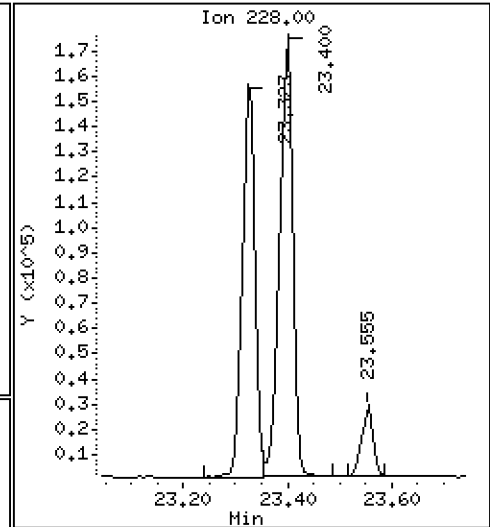
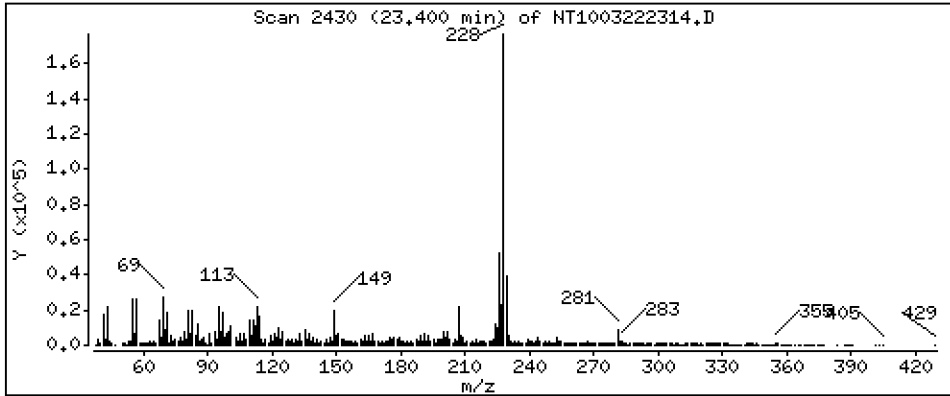
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 1,512 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

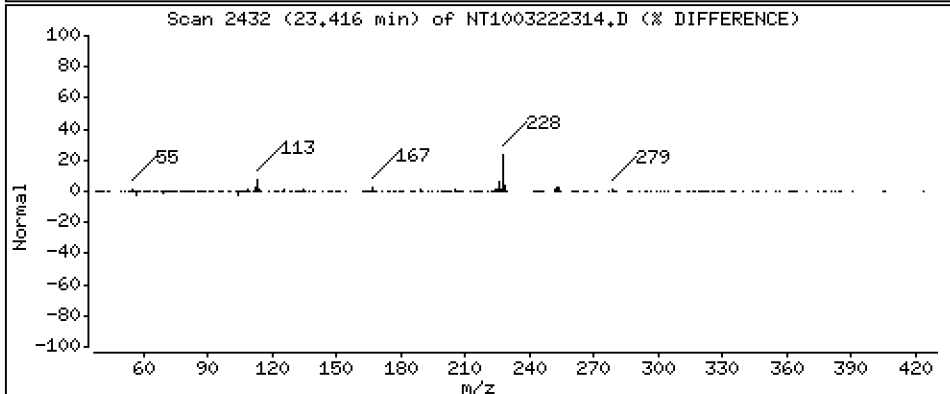
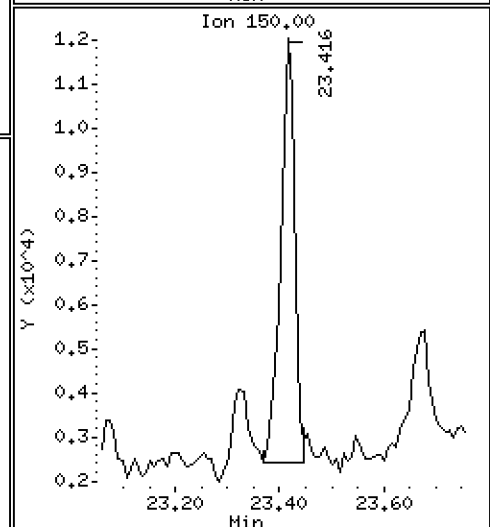
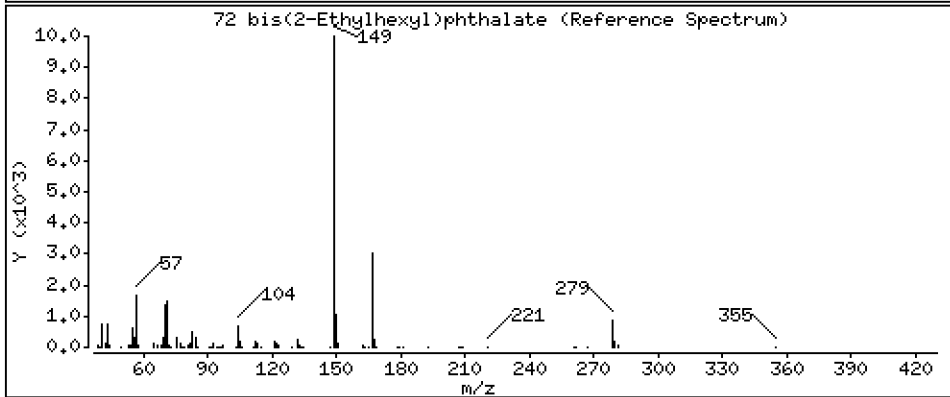
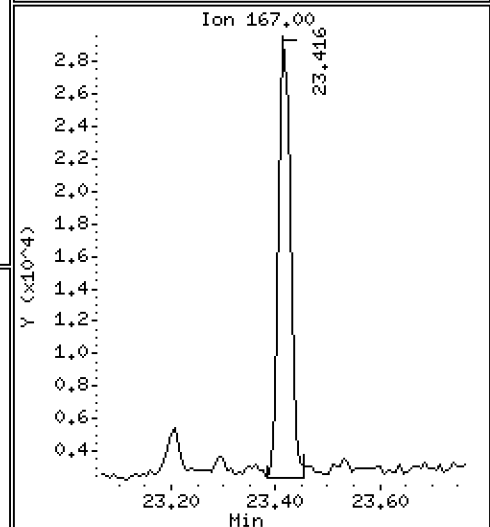
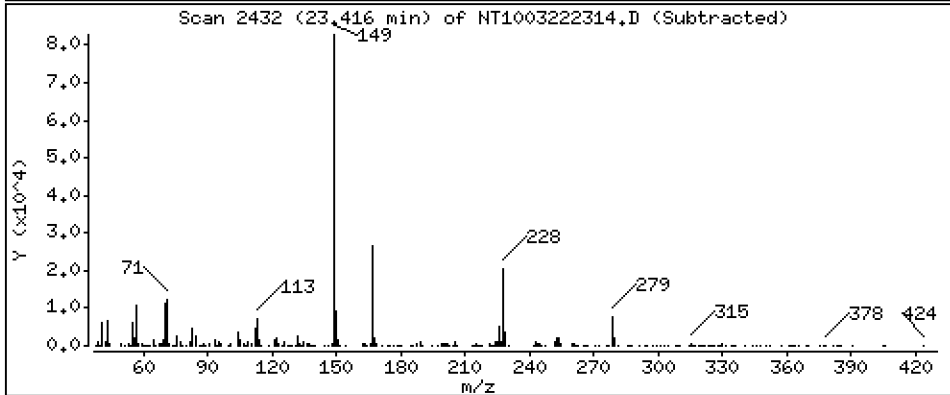
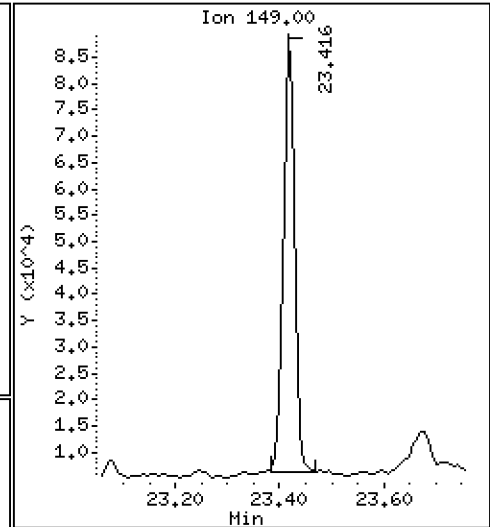
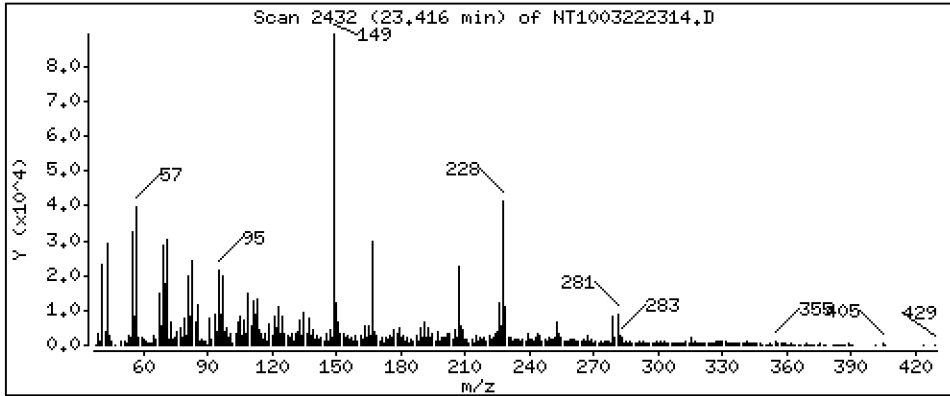
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,8748 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

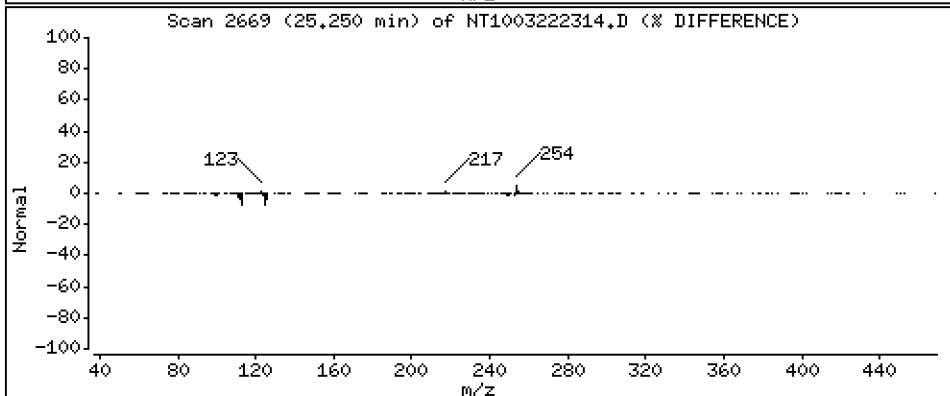
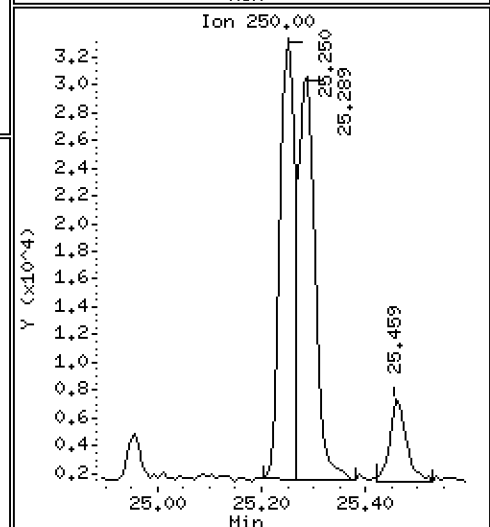
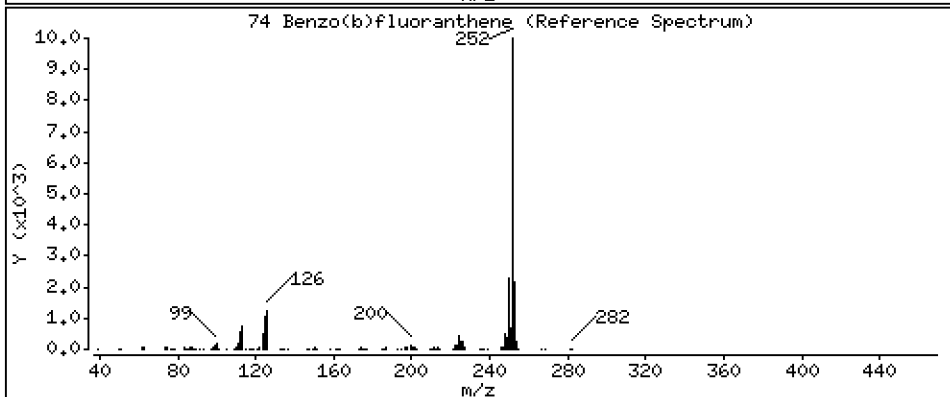
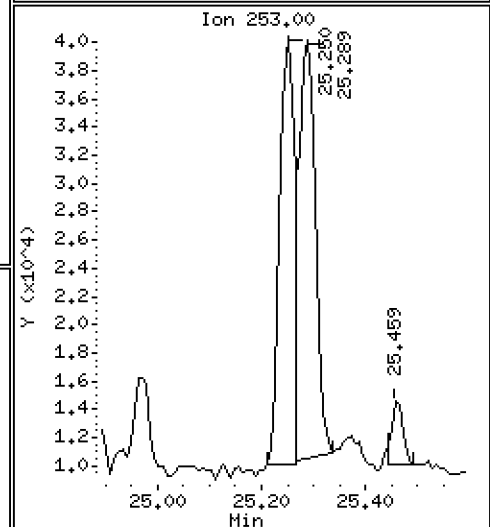
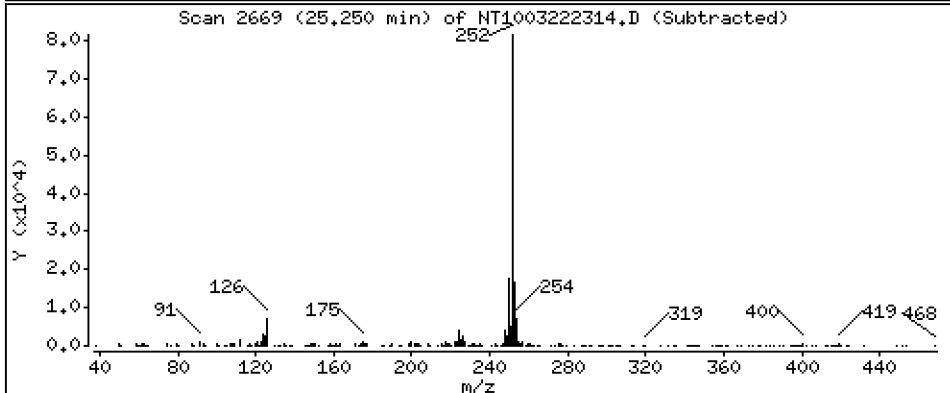
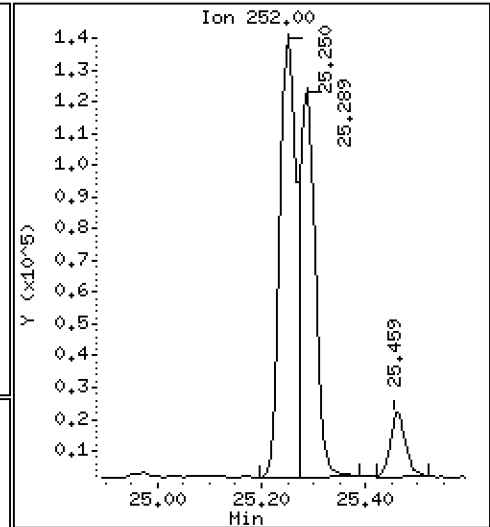
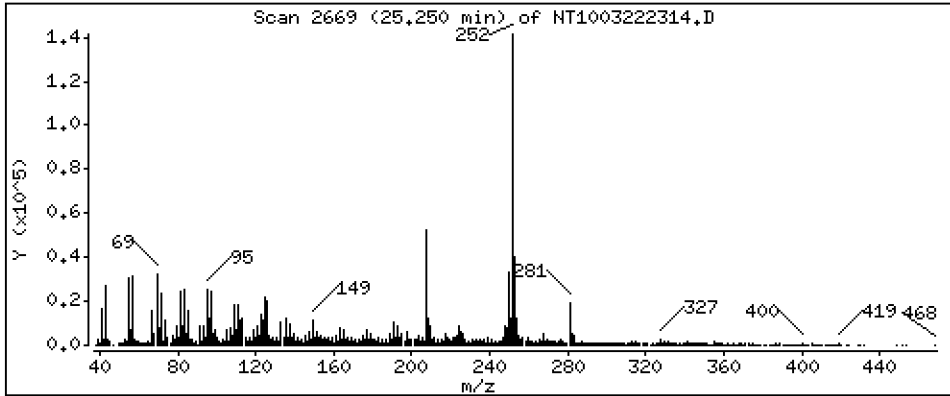
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 1,452 ug/mL





Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

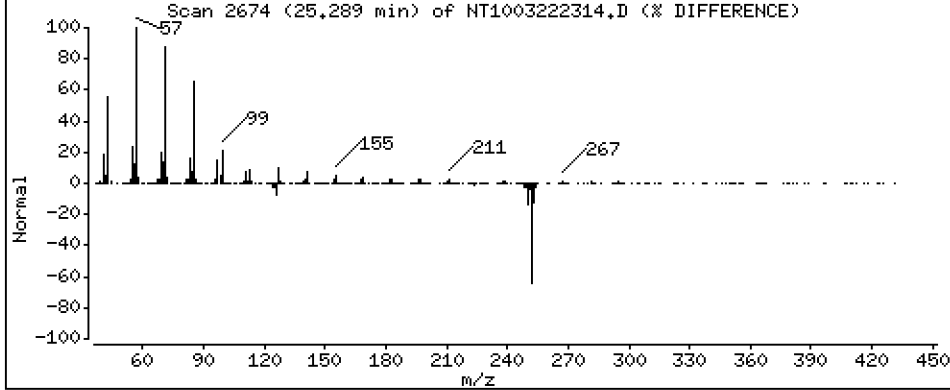
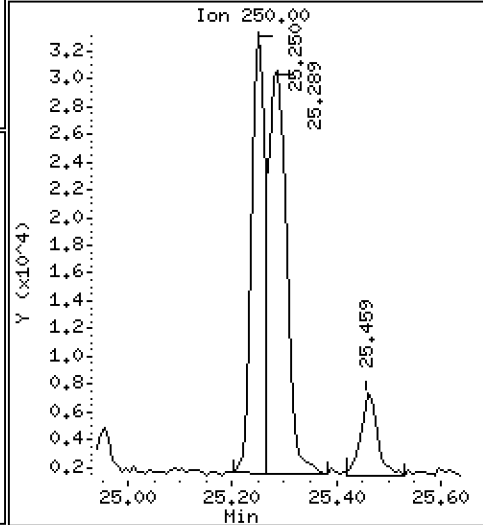
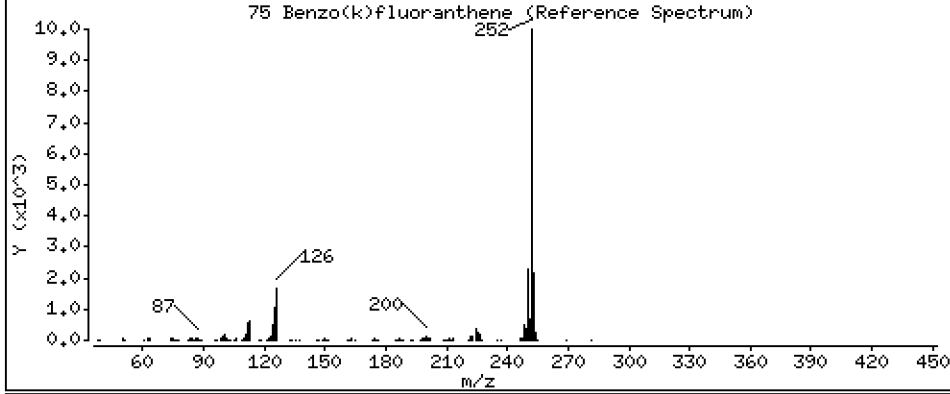
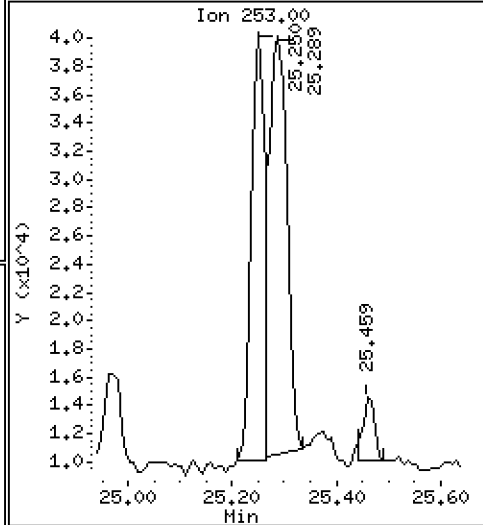
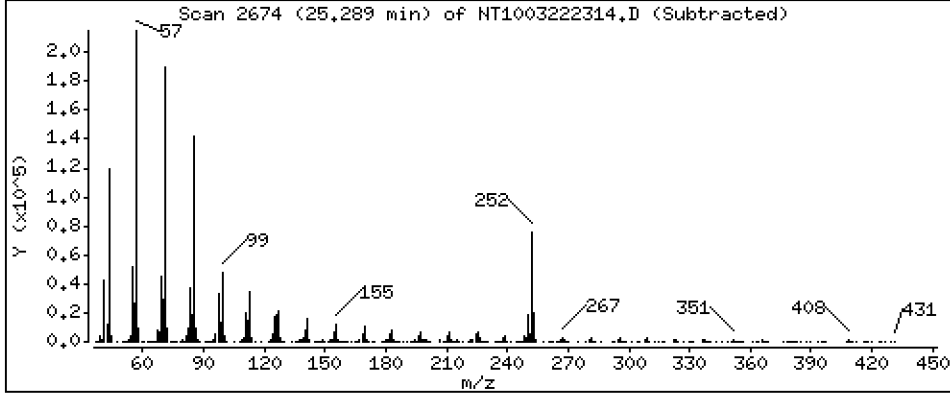
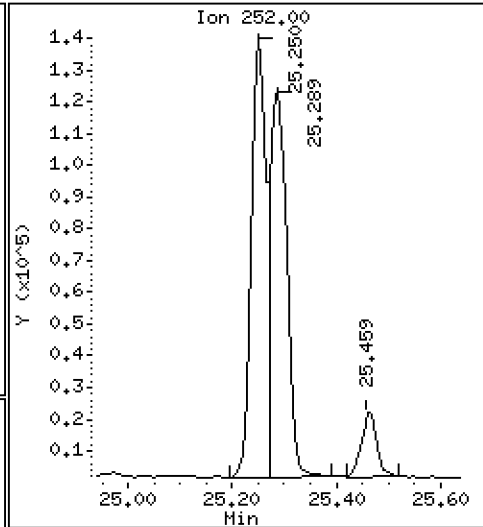
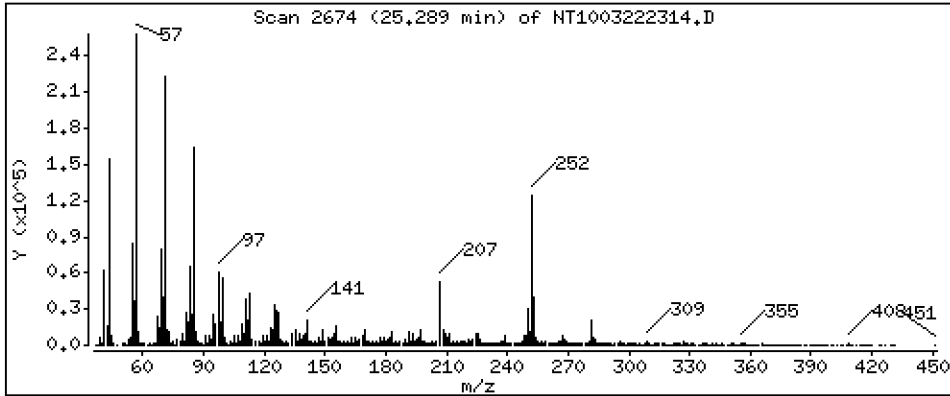
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 1,200 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

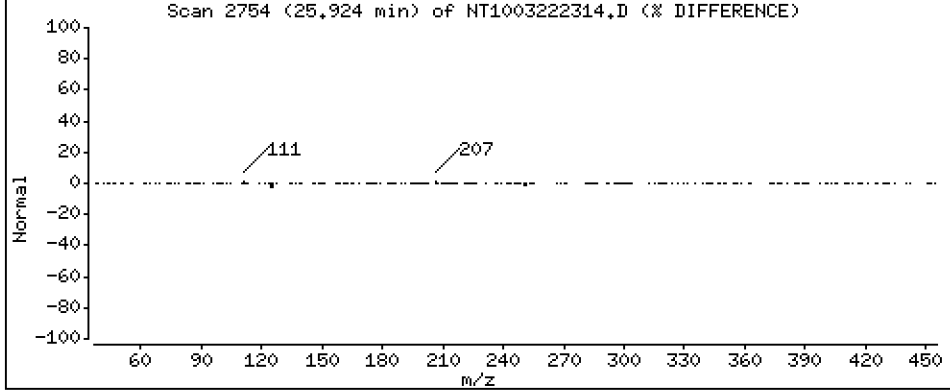
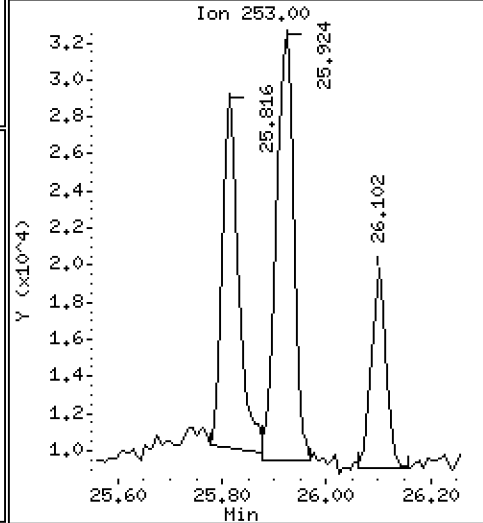
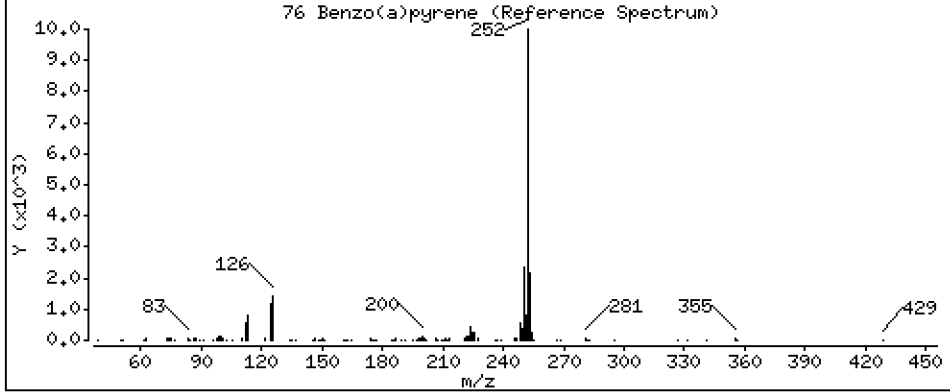
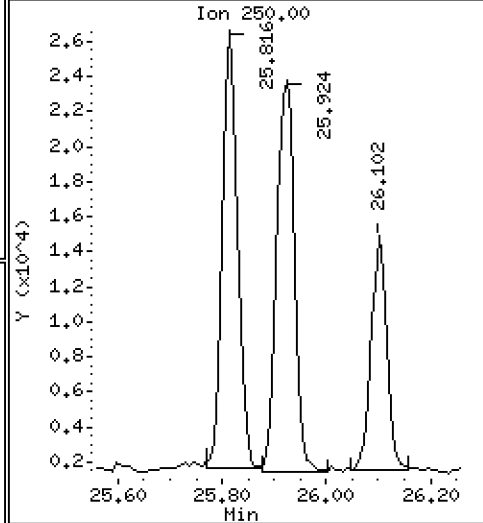
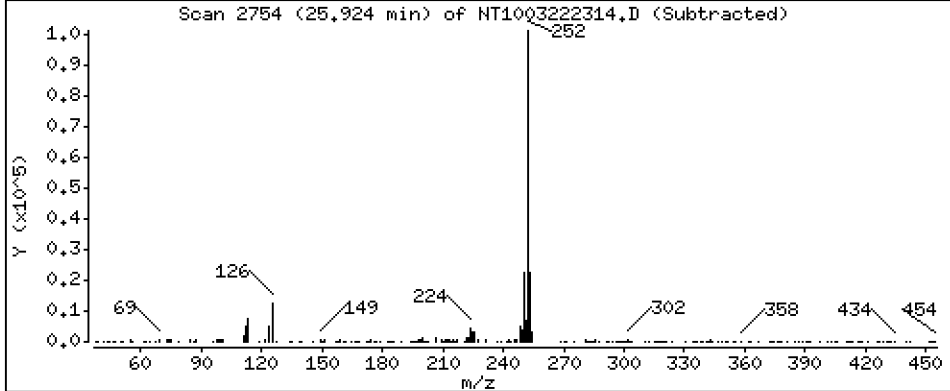
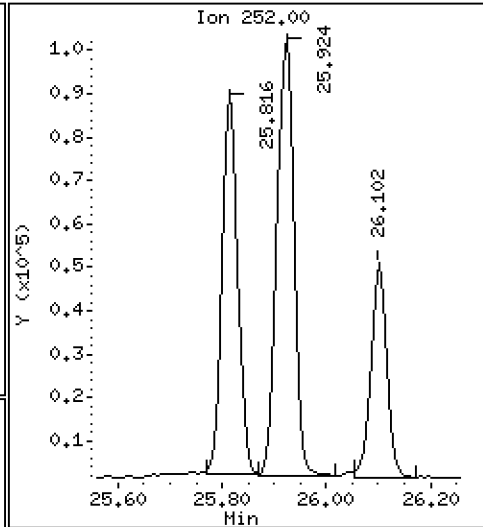
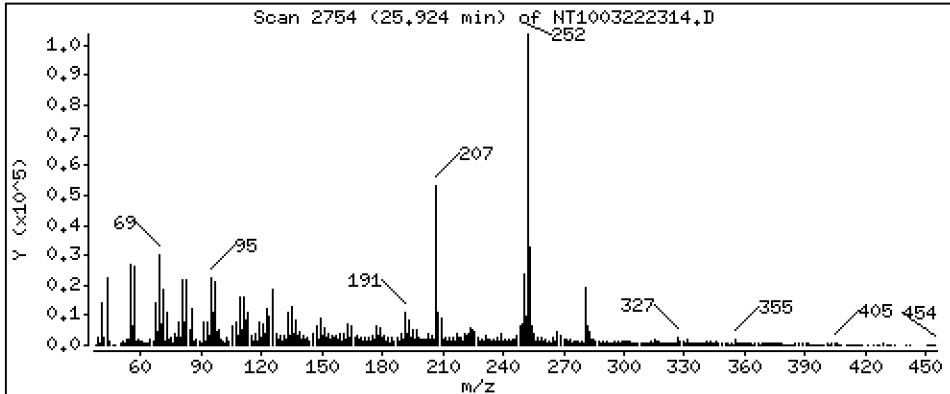
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 1,168 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

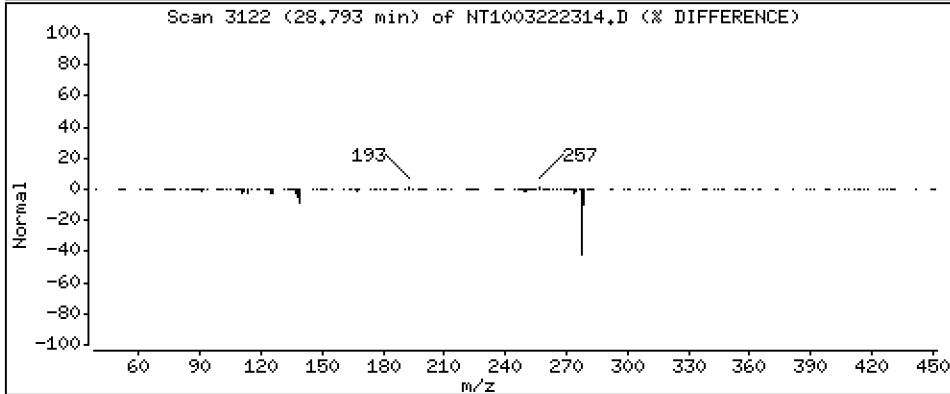
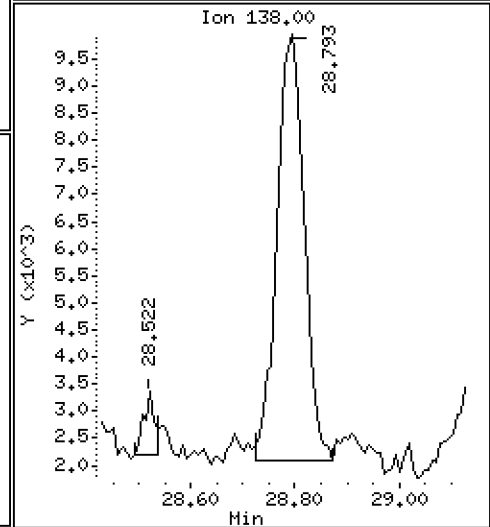
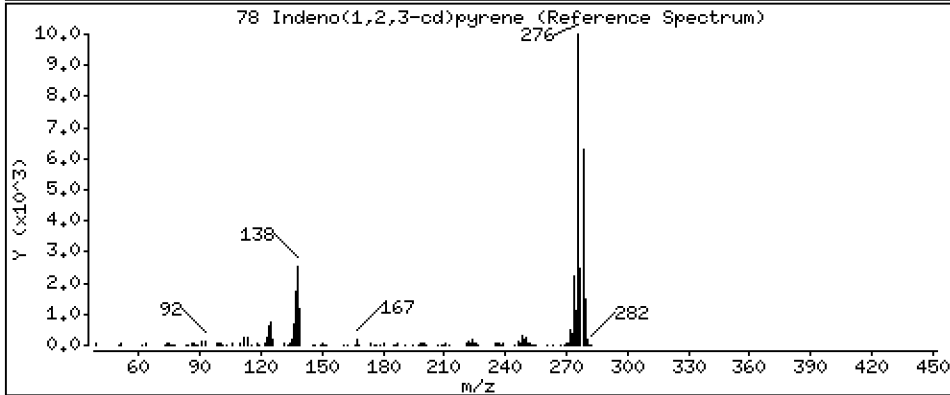
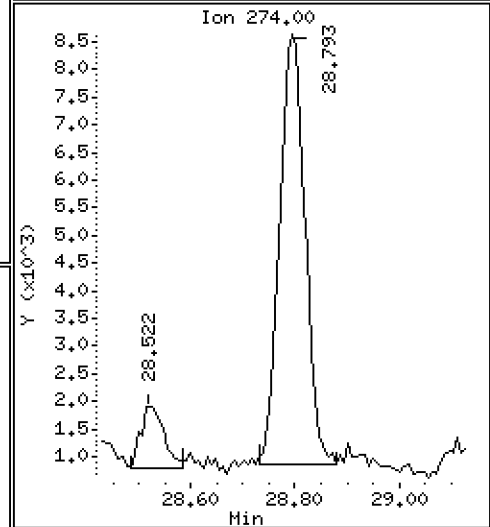
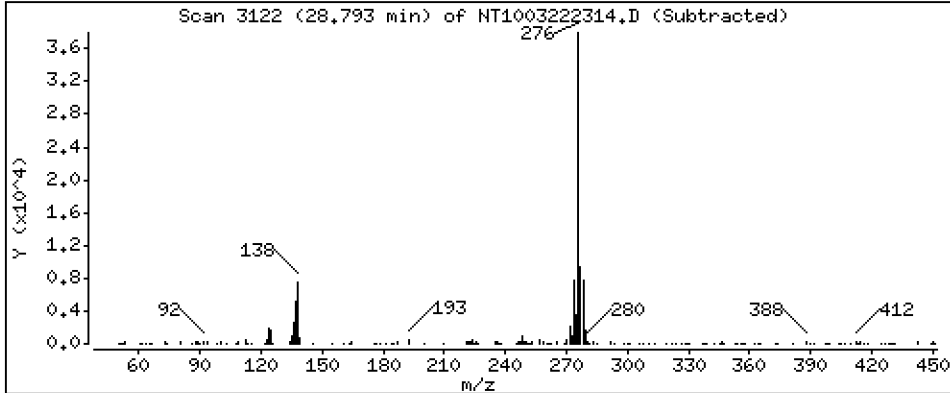
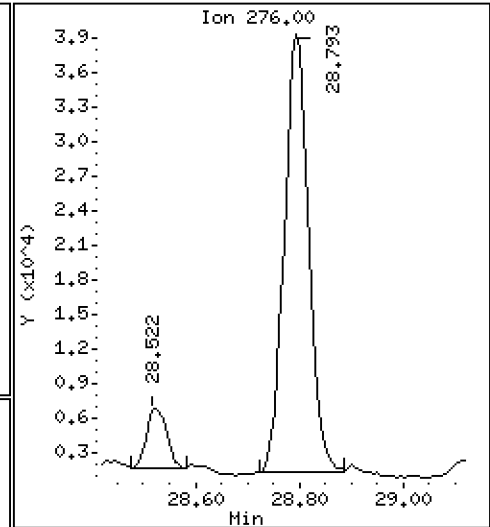
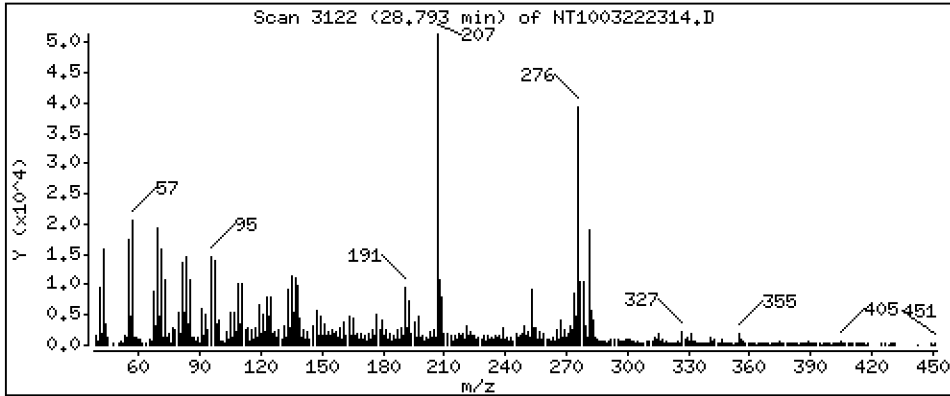
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,5137 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

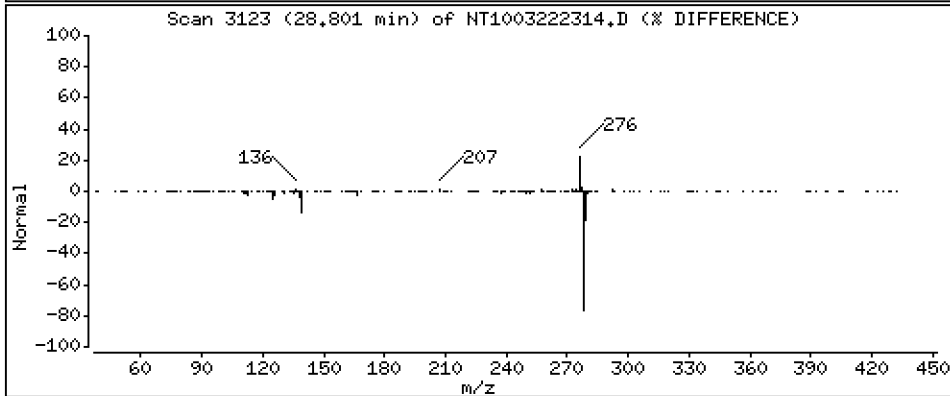
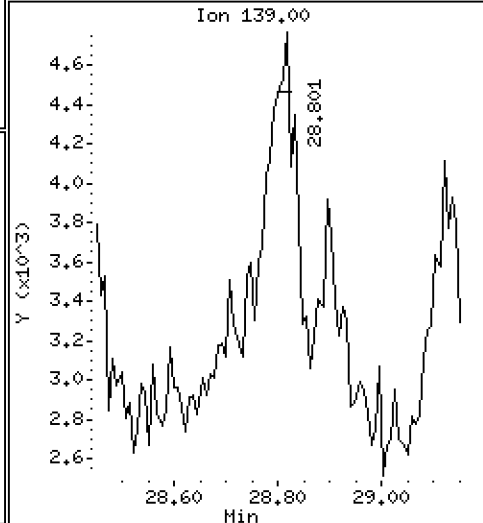
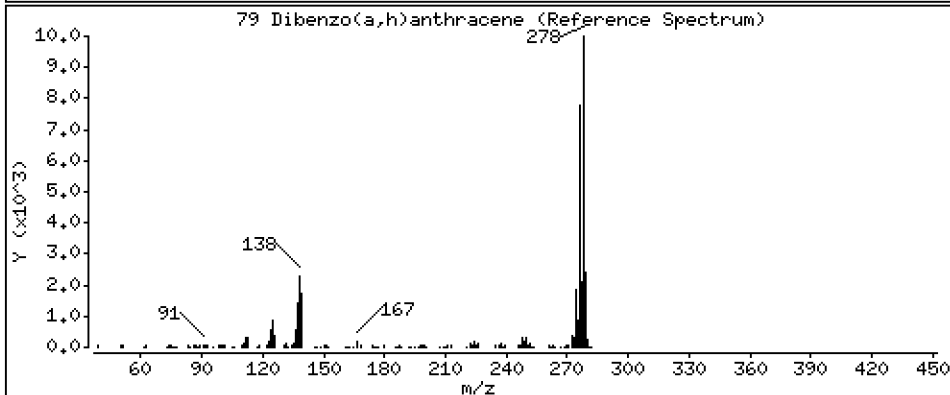
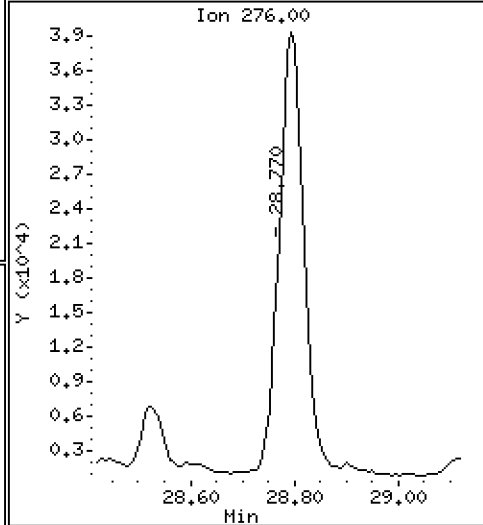
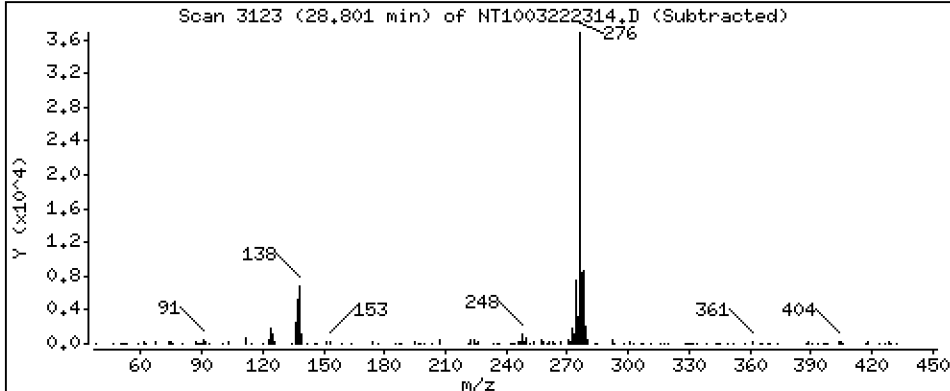
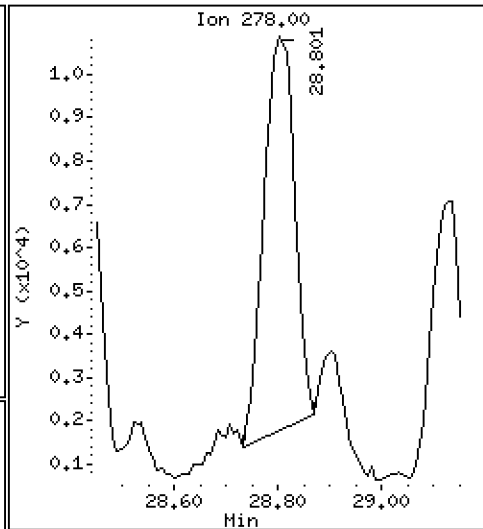
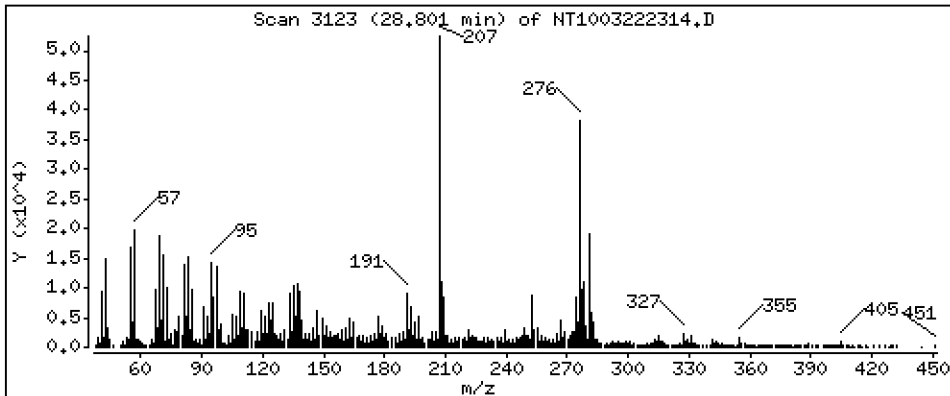
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1843 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

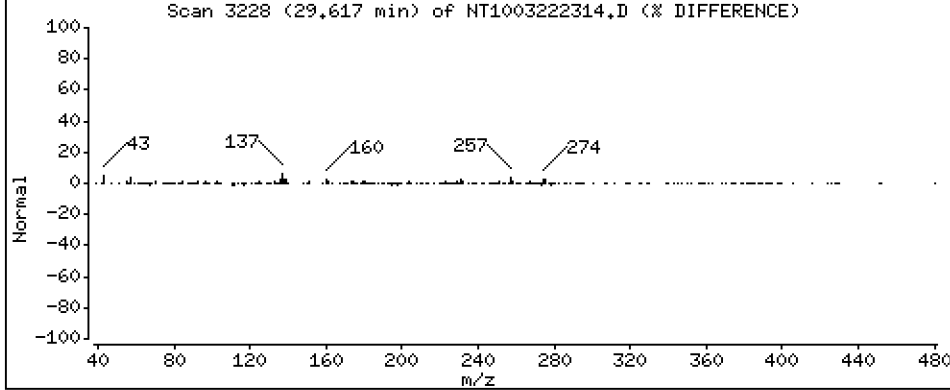
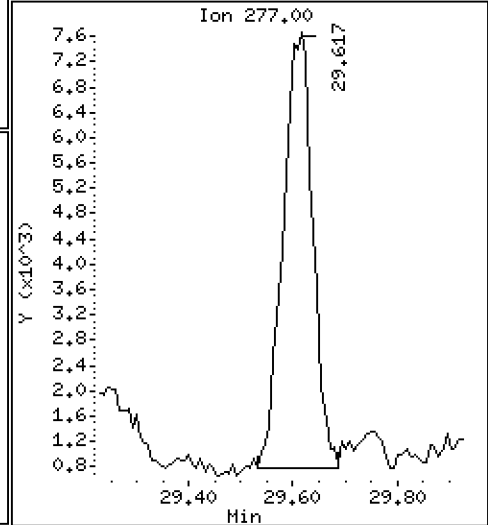
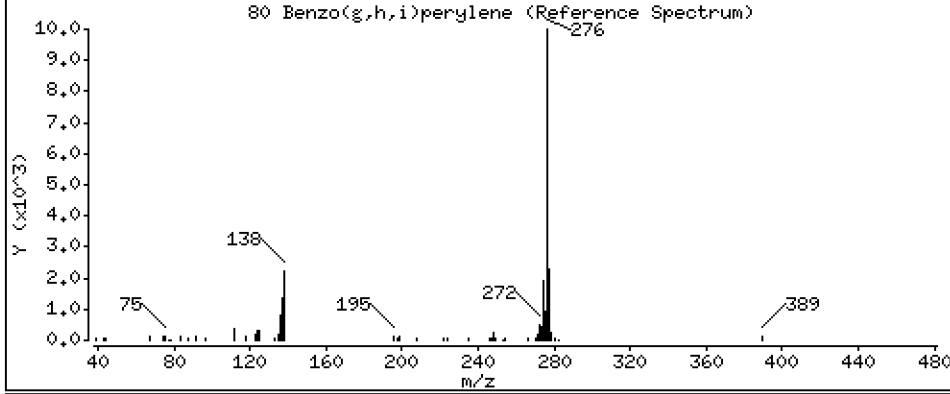
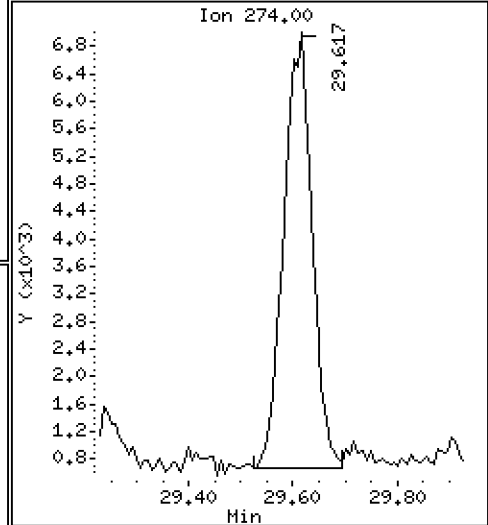
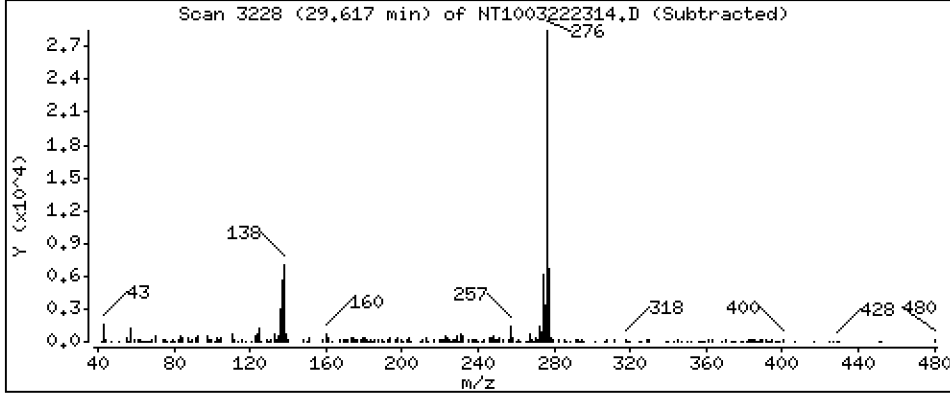
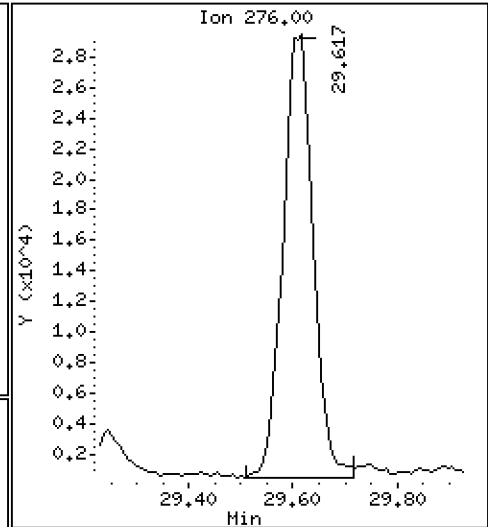
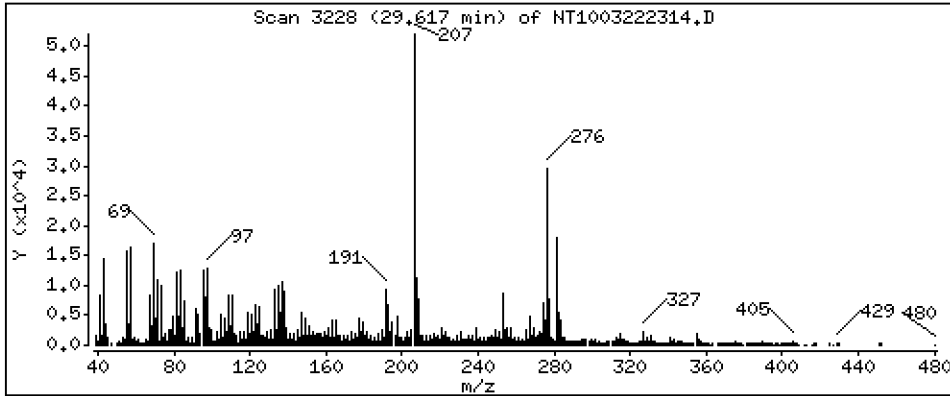
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,5621 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

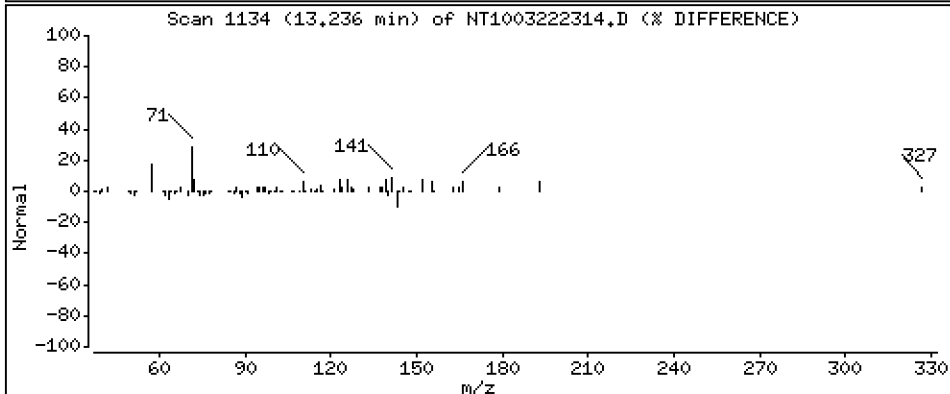
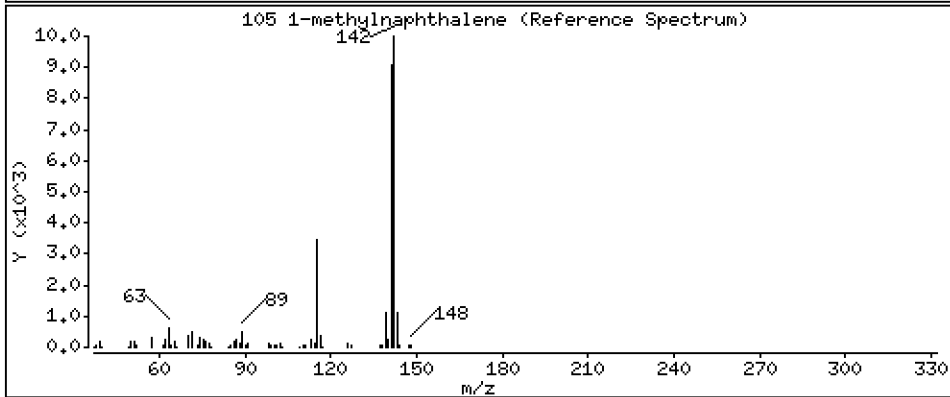
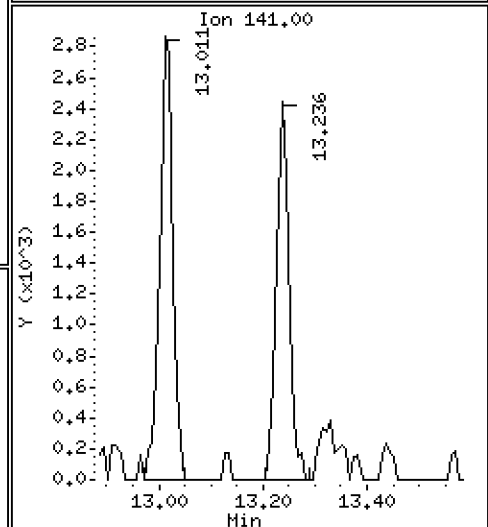
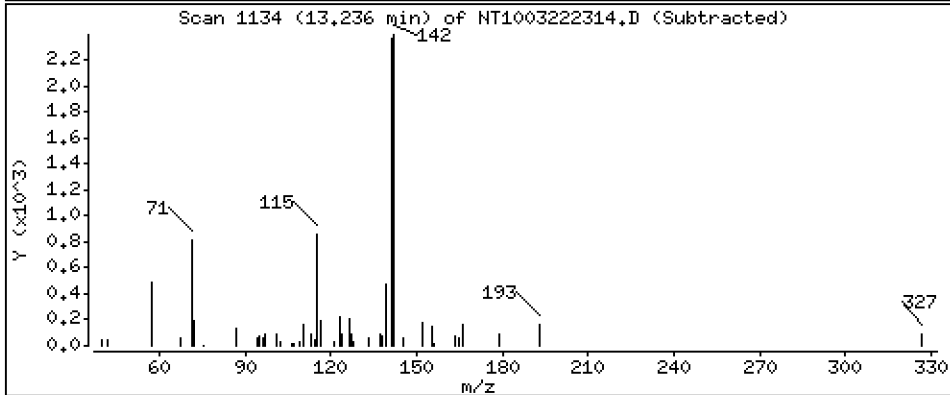
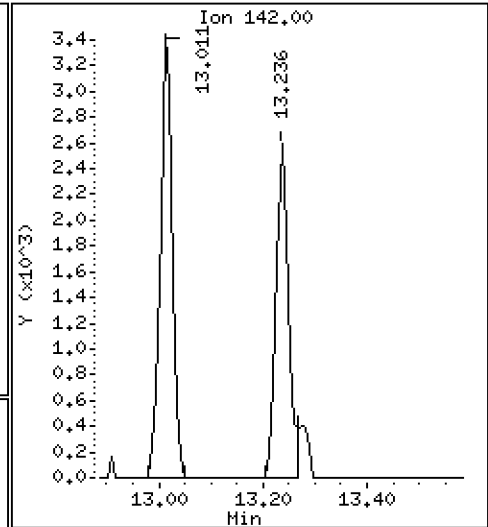
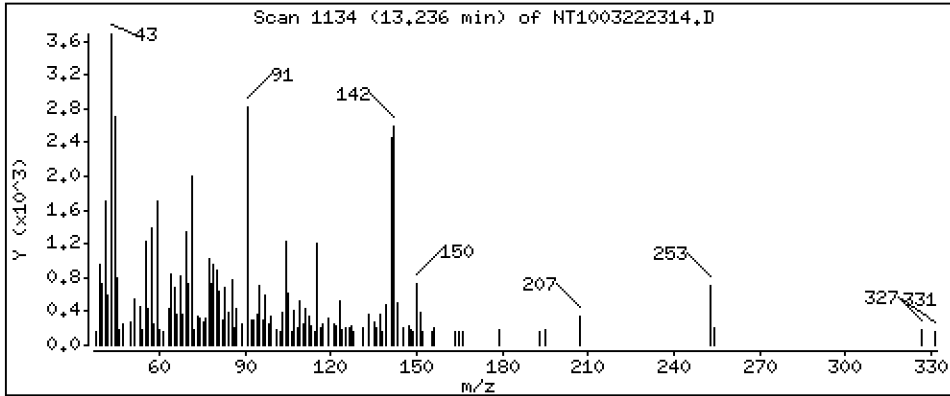
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 0.03816 ug/mL



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05RE1

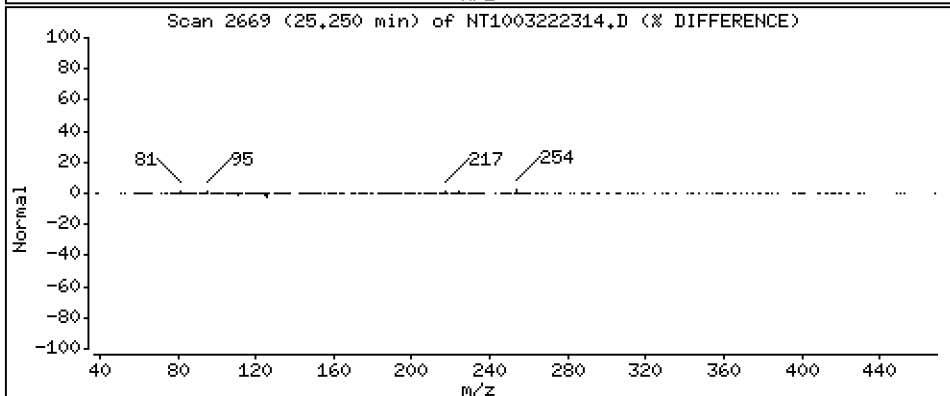
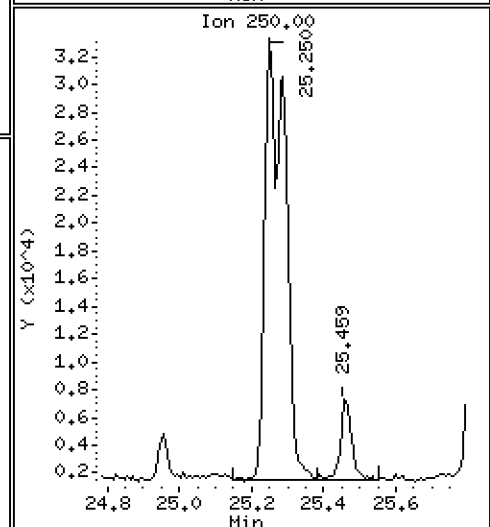
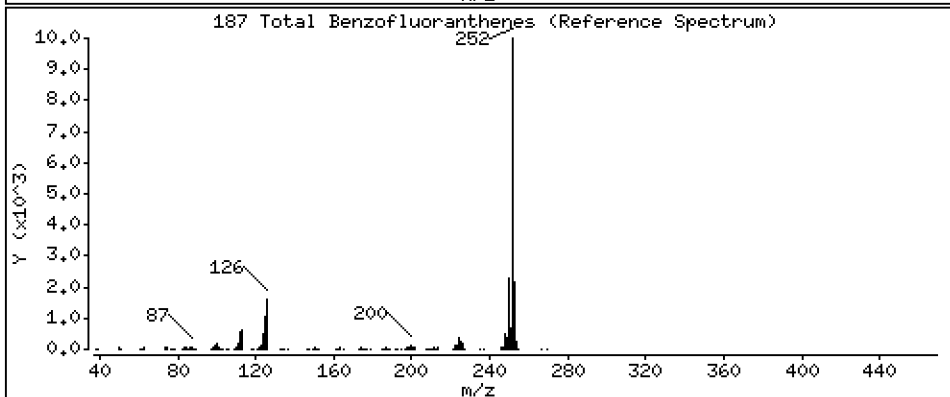
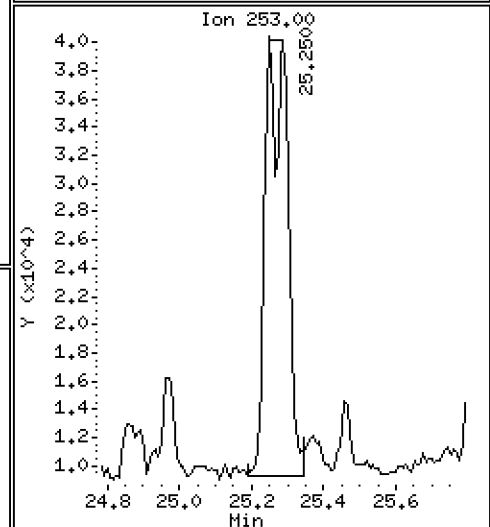
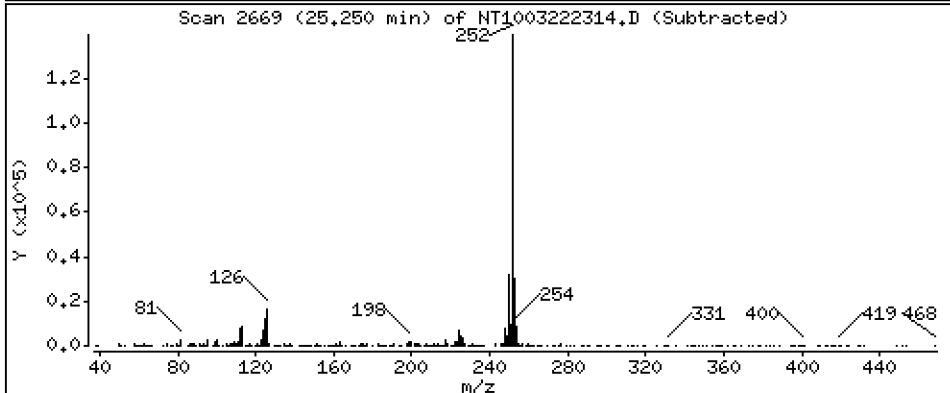
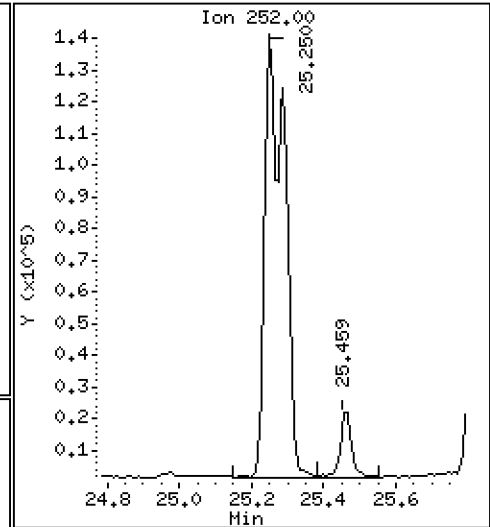
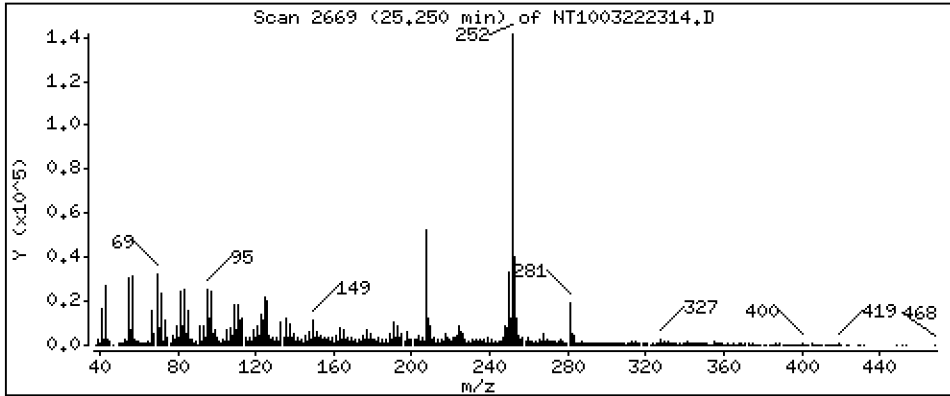
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 2,568 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222314.D  
 Lab Smp Id: 23A0179-05RE1  
 Inj Date : 23-MAR-2023 01:21  
 Operator : VTS  
 Smp Info : 23A0179-05RE1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 07:55 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 14  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |            |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|------------|
|                                 |       |     |                        |        |         |          | ON-COLUMN      | FINAL      |
|                                 | MASS  |     |                        |        |         |          | (ug/mL)        | (ug/mL)    |
| \$ 1 2-Fluorophenol             | 112   |     | 6.867                  | 6.851  | (0.756) | 307039   | 5.91654        | 5.917      |
| \$ 2 Phenol-d5                  | 99    |     | 8.451                  | 8.450  | (0.930) | 405532   | 5.95682        | 5.957      |
| 3 Phenol                        | 94    |     | 8.474                  | 8.473  | (0.933) | 162059   | 2.29077        | 2.291      |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.721                  | 8.721  | (0.960) | 370160   | 6.36733        | 6.367      |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | Compound Not Detected. |        |         |          |                |            |
| 6 2-Chlorophenol                | 128   |     | Compound Not Detected. |        |         |          |                |            |
| 7 1,3-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |            |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.085                  | 9.084  | (1.000) | 171604   | 4.00000        |            |
| 9 1,4-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |            |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.442                  | 9.449  | (1.039) | 162125   | 3.88329        | 3.883      |
| 12 1,2-Dichlorobenzene          | 146   |     | Compound Not Detected. |        |         |          |                |            |
| 11 Benzyl alcohol               | 108   |     | 9.364                  | 9.356  | (1.031) | 3548     | 0.10685        | 0.1069     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | Compound Not Detected. |        |         |          |                |            |
| 13 2-Methylphenol               | 108   |     | Compound Not Detected. |        |         |          |                |            |
| 17 Hexachloroethane             | 117   |     | Compound Not Detected. |        |         |          |                |            |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | Compound Not Detected. |        |         |          |                |            |
| 15 4-Methylphenol               | 108   |     | 9.861                  | 9.853  | (1.085) | 32477    | 0.59769        | 0.5977     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.179                 | 10.187 | (0.880) | 252596   | 4.06166        | 4.062      |
| 19 Nitrobenzene                 | 77    |     | Compound Not Detected. |        |         |          |                |            |
| 20 Isophorone                   | 82    |     | Compound Not Detected. |        |         |          |                |            |
| 21 2-Nitrophenol                | 139   |     | Compound Not Detected. |        |         |          |                |            |
| 22 2,4-Dimethylphenol           | 107   |     | Compound Not Detected. |        |         |          |                |            |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | Compound Not Detected. |        |         |          |                |            |
| 24 Benzoic acid                 | 105   |     | 11.011                 | 11.104 | (0.952) | 15578    | 0.50004        | 0.5000 (H) |
| 25 2,4-Dichlorophenol           | 162   |     | Compound Not Detected. |        |         |          |                |            |
| 26 1,2,4-Trichlorobenzene       | 180   |     | Compound Not Detected. |        |         |          |                |            |
| * 27 Naphthalene-d8             | 136   |     | 11.572                 | 11.572 | (1.000) | 616135   | 4.00000        |            |
| 28 Naphthalene                  | 128   |     | 11.619                 | 11.611 | (1.004) | 11249    | 0.06892        | 0.06892    |
| 29 4-Chloroaniline              | 127   |     | Compound Not Detected. |        |         |          |                |            |
| 30 Hexachlorobutadiene          | 225   |     | Compound Not Detected. |        |         |          |                |            |
| 31 4-Chloro-3-methylphenol      | 107   |     | Compound Not Detected. |        |         |          |                |            |
| 32 2-Methylnaphthalene          | 142   |     | 13.011                 | 13.011 | (1.124) | 5380     | 0.04567        | 0.04567    |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                |            |



| Compounds                         | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
|                                   |       |     |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| \$ 36 2-Fluorobiphenyl            | 172   |     | 13.800 | 13.800 | (0.908) | 579610   | 4.30166              | 4.302            |
| 37 2-Chloronaphthalene            | 162   |     |        |        |         |          |                      |                  |
| 38 2-Nitroaniline                 | 65    |     |        |        |         |          |                      |                  |
| 39 Dimethylphthalate              | 163   |     |        |        |         |          |                      |                  |
| 40 Acenaphthylene                 | 152   |     | 14.884 | 14.884 | (0.979) | 4955     | 0.02915              | 0.02915          |
| 41 2,6-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| * 42 Acenaphthene-d10             | 164   |     | 15.201 | 15.193 | (1.000) | 340623   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 44 Acenaphthene                   | 153   |     | 15.263 | 15.263 | (1.004) | 6842     | 0.06515              | 0.06515          |
| 45 2,4-Dinitrophenol              | 184   |     |        |        |         |          |                      |                  |
| 46 Dibenzofuran                   | 168   |     | 15.595 | 15.595 | (1.026) | 8886     | 0.05737              | 0.05737          |
| 47 4-Nitrophenol                  | 109   |     |        |        |         |          |                      |                  |
| 48 2,4-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| 50 Diethylphthalate               | 149   |     | 16.167 | 16.175 | (1.064) | 12513    | 0.11525              | 0.1153           |
| 49 Fluorene                       | 166   |     | 16.314 | 16.306 | (1.073) | 11193    | 0.09186              | 0.09186          |
| 51 4-Chlorophenyl-phenylether     | 204   |     |        |        |         |          |                      |                  |
| 52 4-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     |        |        |         |          |                      |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     |        |        |         |          |                      |                  |
| \$ 55 2,4,6-Tribromophenol        | 330   |     | 16.846 | 16.846 | (1.108) | 141886   | 8.95854              | 8.959            |
| 56 4-Bromophenyl-phenylether      | 248   |     |        |        |         |          |                      |                  |
| 57 Hexachlorobenzene              | 284   |     |        |        |         |          |                      |                  |
| 58 Pentachlorophenol              | 266   |     |        |        |         |          |                      |                  |
| * 59 Phenanthrene-d10             | 188   |     | 18.261 | 18.253 | (1.000) | 630416   | 4.00000              |                  |
| 60 Phenanthrene                   | 178   |     | 18.307 | 18.299 | (1.003) | 124320   | 0.72321              | 0.7232           |
| 61 Anthracene                     | 178   |     | 18.400 | 18.392 | (1.008) | 51161    | 0.31026              | 0.3103           |
| 62 Carbazole                      | 167   |     | 18.733 | 18.725 | (1.026) | 12597    | 0.08525              | 0.08525          |
| 63 Di-n-butylphthalate            | 149   |     |        |        |         |          |                      |                  |
| 64 Fluoranthene                   | 202   |     | 20.721 | 20.705 | (0.887) | 492463   | 2.13897              | 2.139            |
| 65 Pyrene                         | 202   |     | 21.139 | 21.131 | (0.905) | 551937   | 2.33695              | 2.337            |
| \$ 66 Terphenyl-d14               | 244   |     | 21.433 | 21.425 | (0.918) | 776025   | 4.37529              | 4.375            |
| 67 Butylbenzylphthalate           | 149   |     |        |        |         |          |                      |                  |
| 68 Benzo(a)anthracene             | 228   |     | 23.322 | 23.314 | (0.999) | 260386   | 1.28748              | 1.287            |
| * 69 Chrysene-d12                 | 240   |     | 23.353 | 23.345 | (1.000) | 572980   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     |        |        |         |          |                      |                  |
| 71 Chrysene                       | 228   |     | 23.400 | 23.392 | (1.002) | 298840   | 1.51243              | 1.512            |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 23.415 | 23.407 | (0.959) | 123138   | 0.87482              | 0.8748           |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 24.421 | 24.413 | (1.000) | 961985   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149   |     |        |        |         |          |                      |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 25.250 | 25.242 | (0.969) | 312652   | 1.45199              | 1.452            |
| 75 Benzo(k)fluoranthene           | 252   |     | 25.288 | 25.288 | (0.971) | 262463   | 1.20040              | 1.200            |
| 76 Benzo(a)pyrene                 | 252   |     | 25.923 | 25.908 | (0.995) | 224810   | 1.16776              | 1.168            |
| * 77 Perylene-d12                 | 264   |     | 26.047 | 26.024 | (1.000) | 664278   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 28.793 | 28.769 | (1.105) | 125825   | 0.51373              | 0.5137           |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 28.801 | 28.800 | (1.106) | 37476    | 0.18430              | 0.1843 (M)       |
| 80 Benzo(g,h,i)perylene           | 276   |     | 29.616 | 29.577 | (1.137) | 119148   | 0.56212              | 0.5621           |
| 90 N-Nitrosodimethylamine         | 74    |     |        |        |         |          |                      |                  |
| 91 Aniline                        | 93    |     |        |        |         |          |                      |                  |
| 93 Benzidine                      | 184   |     |        |        |         |          |                      |                  |
| 103 Pyridine                      | 79    |     |        |        |         |          |                      |                  |
| 105 1-methylnaphthalene           | 142   |     | 13.235 | 13.235 | (1.144) | 4118     | 0.03816              | 0.03816          |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     |        |        |         |          |                      |                  |

| Compounds                     | QUANT SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|
|                               |           |                        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 25.250                 | 25.288 | (0.969) | 533838   | 2.56773              | 2.568            |
| 120 2,3,4,6-Tetrachlorophenol | 232       | Compound Not Detected. |        |         |          |                      |                  |

### QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 22-MAR-2023  
 Lab File ID: NT1003222314.D Calibration Time: 17:42  
 Lab Smp Id: 23A0179-05RE1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 122478   | 61239      | 244956  | 171604 | 40.11 |
| 27 Naphthalene-d8     | 459261   | 229631     | 918522  | 616135 | 34.16 |
| 42 Acenaphthene-d10   | 264106   | 132053     | 528212  | 340623 | 28.97 |
| 59 Phenanthrene-d10   | 503255   | 251628     | 1006510 | 630416 | 25.27 |
| 69 Chrysene-d12       | 437735   | 218868     | 875470  | 572980 | 30.90 |
| 134 Di-n-octylphthala | 700191   | 350096     | 1400382 | 961985 | 37.39 |
| 77 Perylene-d12       | 499049   | 249525     | 998098  | 664278 | 33.11 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.08     | 8.58     | 9.58  | 9.09   | 0.00  |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.57  | 0.00  |
| 42 Acenaphthene-d10   | 15.19    | 14.69    | 15.69 | 15.20  | 0.05  |
| 59 Phenanthrene-d10   | 18.25    | 17.75    | 18.75 | 18.26  | 0.04  |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.35  | 0.03  |
| 134 Di-n-octylphthala | 24.41    | 23.91    | 24.91 | 24.42  | 0.03  |
| 77 Perylene-d12       | 26.02    | 25.52    | 26.52 | 26.05  | 0.09  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222314.D

Lab ID: 23A0179-05RE1  
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 01:21

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND     |
|-------|---------|---------|--------------|
| 0.952 | 0.960   | -0.0081 | Benzoic acid |

RRT check based on Ccal File: NT1003222302.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

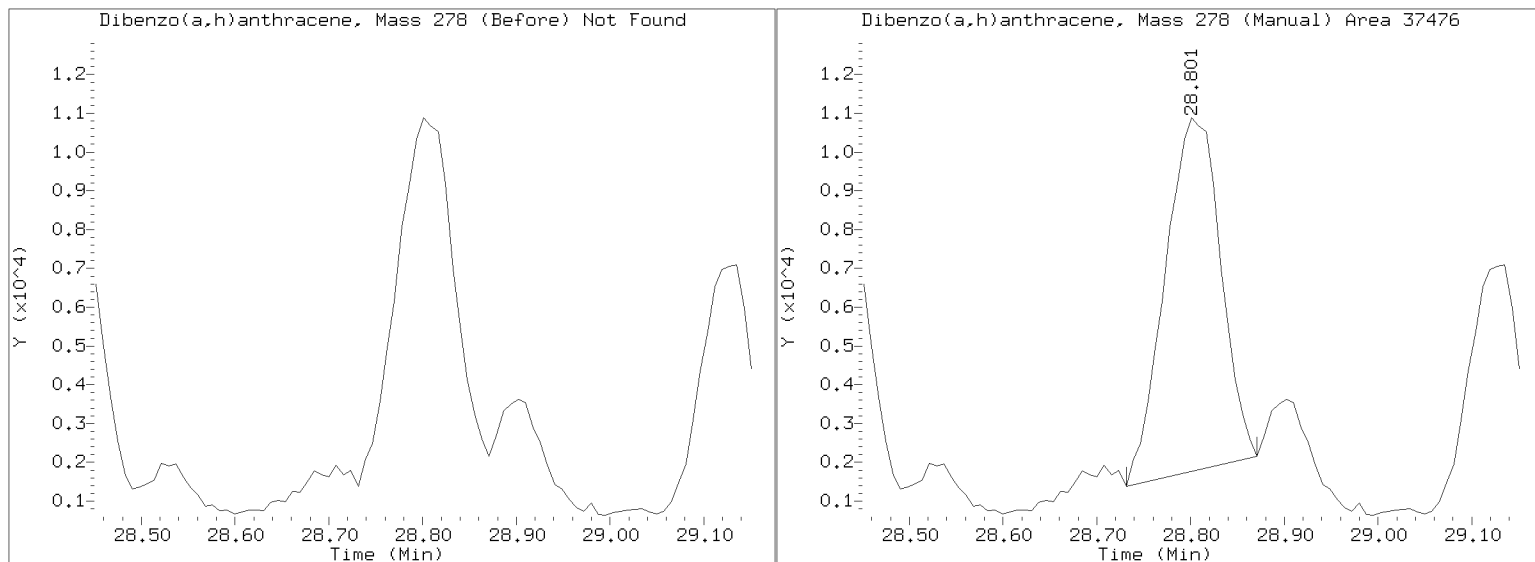
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222314.D

Injection Date: 23-MAR-2023 01:21

Lab ID: 23A0179-05RE1 Client ID:

Report Date: 03/25/2023 07:56





Form I  
ORGANIC ANALYSIS DATA SHEET  
EPA 8270E  
Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-06RE1 A

SDG: 23A0179

Sampled: 01/10/23 09:54

Prepared: 03/17/23 11:16

File ID: NT1003222315.D

% Solids: 53.98

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 01:59

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 18.61 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| CAS NO.  | COMPOUND                    | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|-----------------------------|----------|----------------------|---|------|------|
| 108-95-2 | Phenol                      | 1        | 317                  |   | 4.4  | 19.9 |
| 106-44-5 | 4-Methylphenol              | 1        | 58.0                 |   | 7.4  | 19.9 |
| 91-20-3  | Naphthalene                 | 1        | 8.7                  | J | 4.2  | 19.9 |
| 91-57-6  | 2-Methylnaphthalene         | 1        | 8.1                  | J | 4.5  | 19.9 |
| 208-96-8 | Acenaphthylene              | 1        | 9.2                  | J | 6.2  | 19.9 |
| 131-11-3 | Dimethylphthalate           | 1        | 19.9                 | U | 4.4  | 19.9 |
| 83-32-9  | Acenaphthene                | 1        | 6.5                  | J | 5.2  | 19.9 |
| 132-64-9 | Dibenzofuran                | 1        | 19.9                 | U | 14.1 | 19.9 |
| 86-73-7  | Fluorene                    | 1        | 19.9                 | U | 14.5 | 19.9 |
| 85-01-8  | Phenanthrene                | 1        | 60.0                 |   | 8.7  | 19.9 |
| 120-12-7 | Anthracene                  | 1        | 25.3                 |   | 7.2  | 19.9 |
| 206-44-0 | Fluoranthene                | 1        | 140                  |   | 6.1  | 19.9 |
| 129-00-0 | Pyrene                      | 1        | 161                  |   | 5.7  | 19.9 |
| 85-68-7  | Butylbenzylphthalate        | 1        | 12.1                 | J | 9.4  | 19.9 |
| 56-55-3  | Benzo(a)anthracene          | 1        | 98.6                 |   | 5.9  | 19.9 |
| 218-01-9 | Chrysene                    | 1        | 112                  |   | 6.0  | 19.9 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate  | 1        | 93.7                 |   | 5.4  | 49.8 |
|          | Benzo(a)fluoranthene, Total | 1        | 241                  |   | 10.0 | 39.8 |
| 50-32-8  | Benzo(a)pyrene              | 1        | 99.3                 |   | 4.2  | 19.9 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene      | 1        | 46.6                 |   | 14.6 | 19.9 |
| 53-70-3  | Dibenzo(a,h)anthracene      | 1        | 17.2                 | J | 17.2 | 19.9 |
| 191-24-2 | Benzo(g,h,i)perylene        | 1        | 52.0                 |   | 13.5 | 19.9 |

| SURROGATES             | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol         | 746.59                | 565                   | 75.7  | 27 - 120  |   |
| Phenol-d5              | 746.59                | 589                   | 78.9  | 29 - 120  |   |
| 2-Chlorophenol-d4      | 746.59                | 624                   | 83.6  | 31 - 120  |   |
| 1,2-Dichlorobenzene-d4 | 497.73                | 372                   | 74.8  | 32 - 120  |   |
| Nitrobenzene-d5        | 497.73                | 393                   | 79.0  | 30 - 120  |   |
| 2-Fluorobiphenyl       | 497.73                | 422                   | 84.8  | 35 - 120  |   |



**Form I**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8270E**  
**Semivolatiles (20ug/kg - 0.2ug/L SepF)**

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-06RE1 A

SDG: 23A0179

Sampled: 01/10/23 09:54

Prepared: 03/17/23 11:16

File ID: NT1003222315.D

% Solids: 53.98

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 01:59

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 18.61 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| SURROGATES           | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------|-----------------------|-----------------------|-------|-----------|---|
| 2,4,6-Tribromophenol | 746.59                | 921                   | 123   | 24 - 134  | Q |
| p-Terphenyl-d14      | 497.73                | 424                   | 85.2  | 37 - 120  |   |

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222315.D

Date: 23-MAR-2023 01:59

Client ID:

Sample Info: 23A0179-06RE1

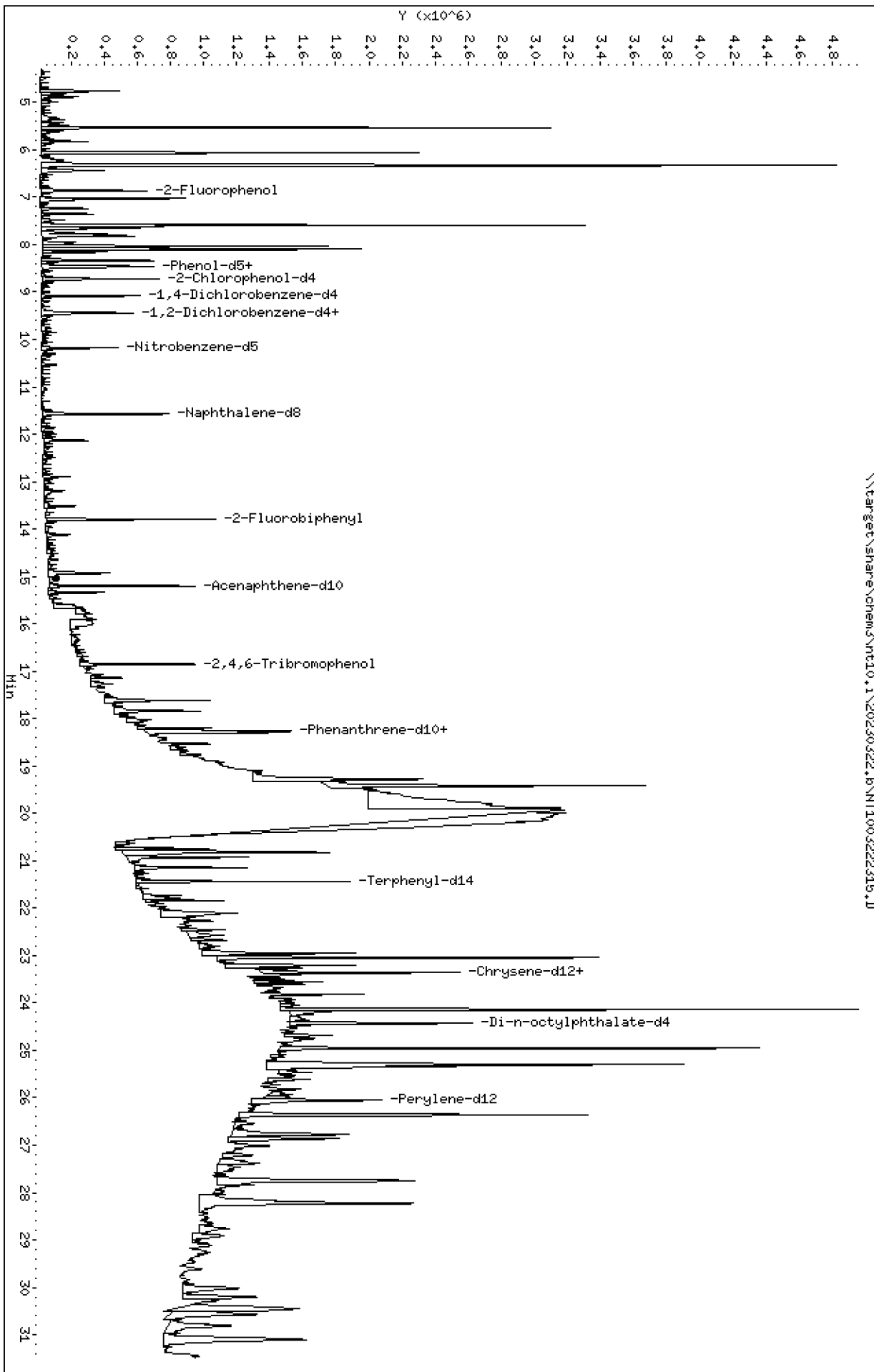
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

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Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

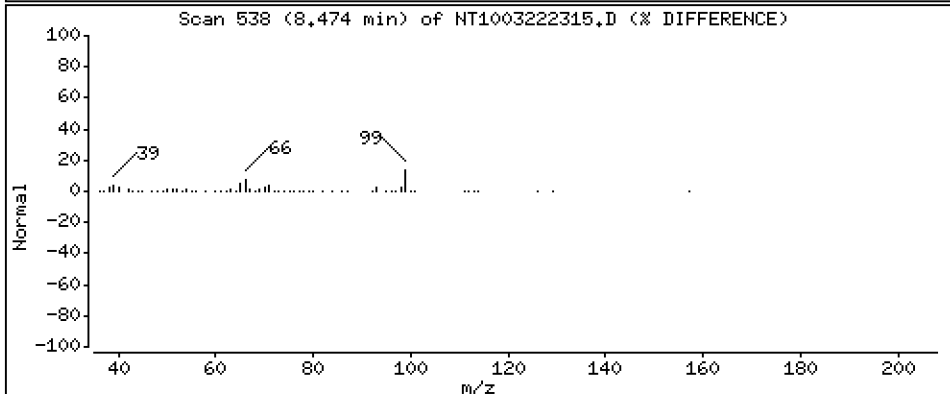
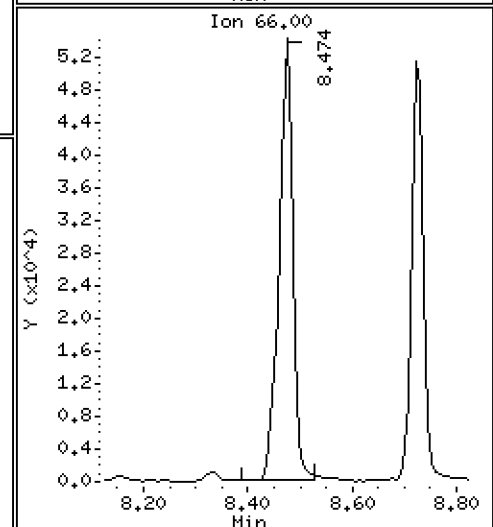
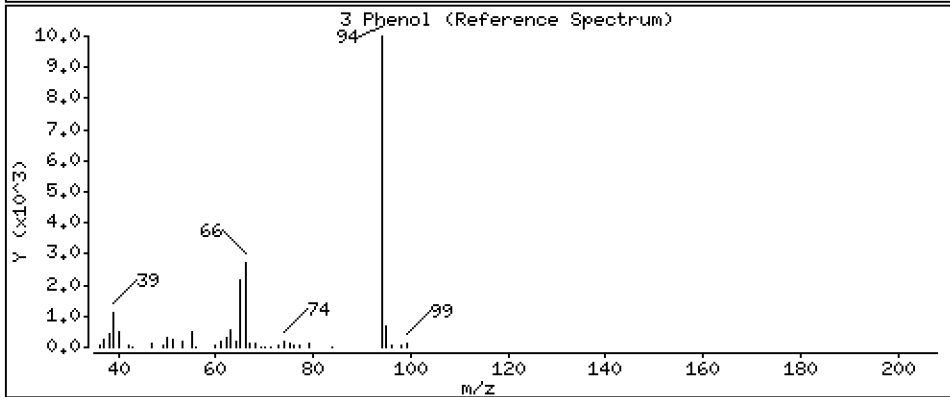
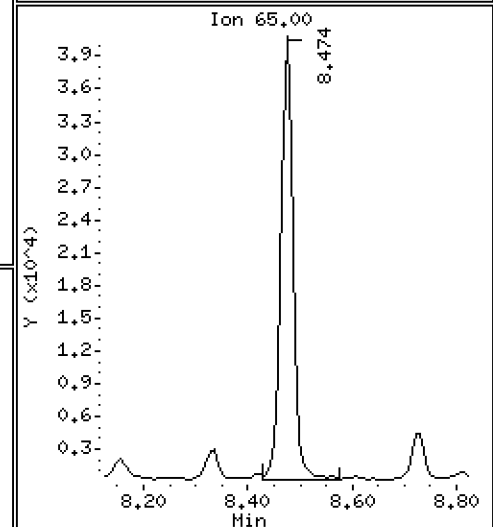
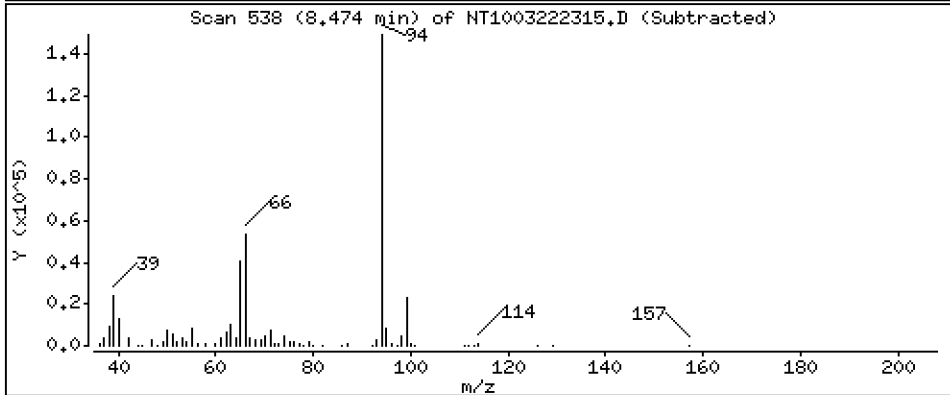
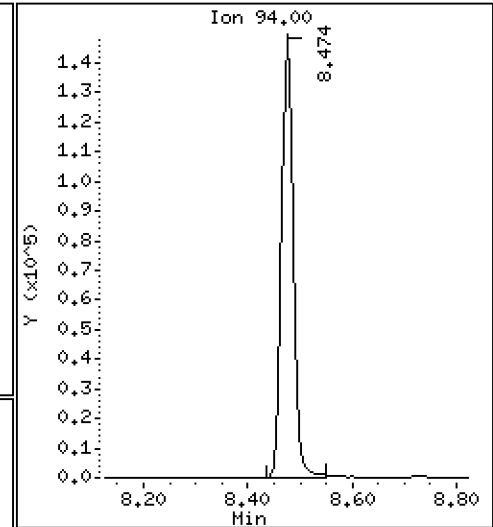
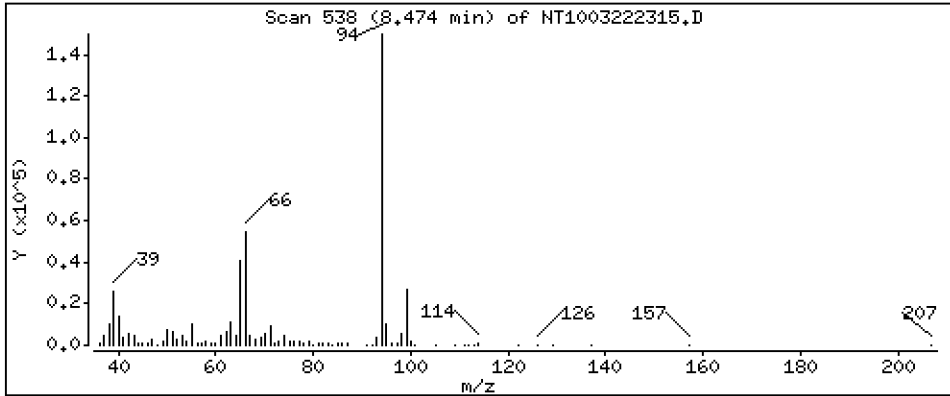
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 3,187 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

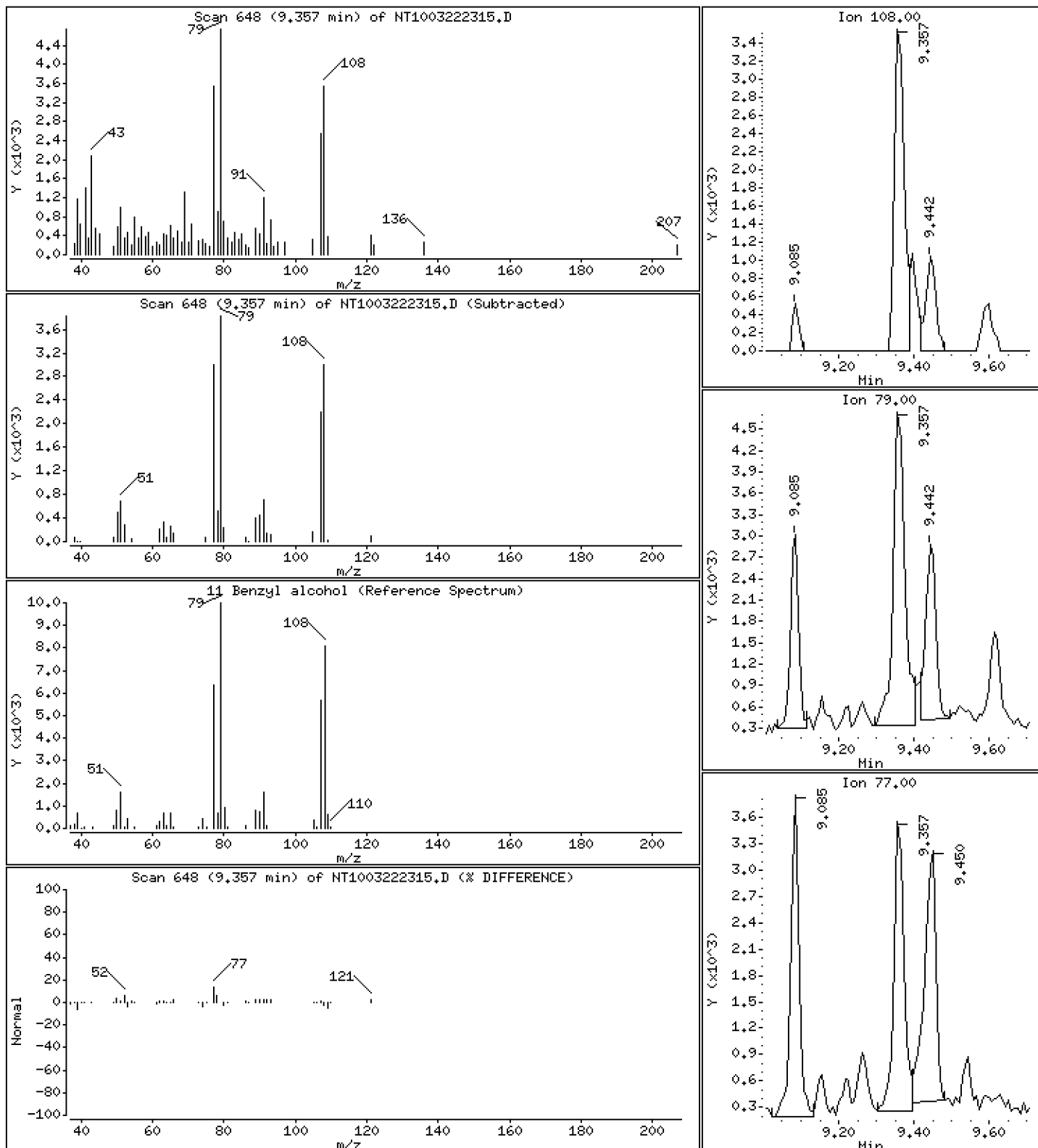
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1931 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

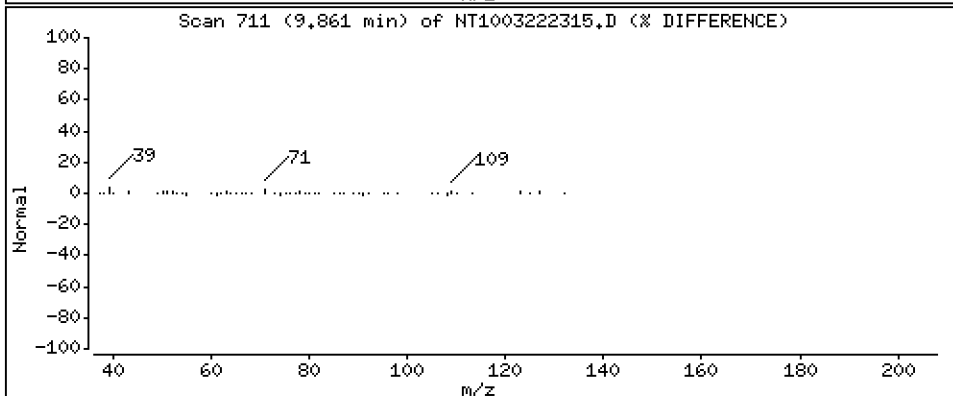
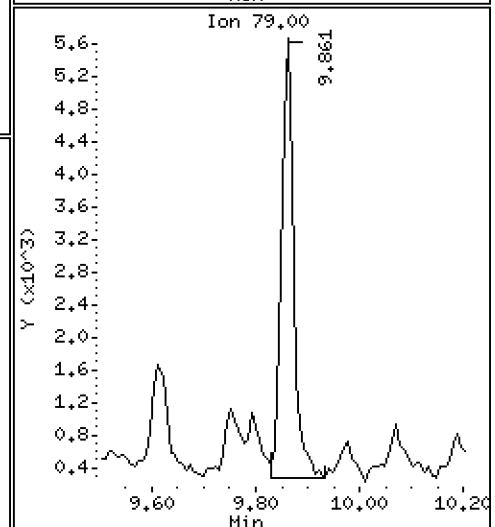
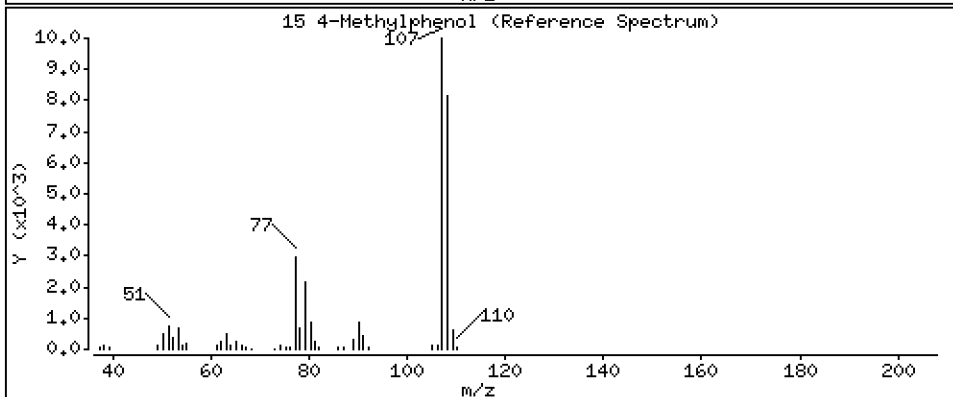
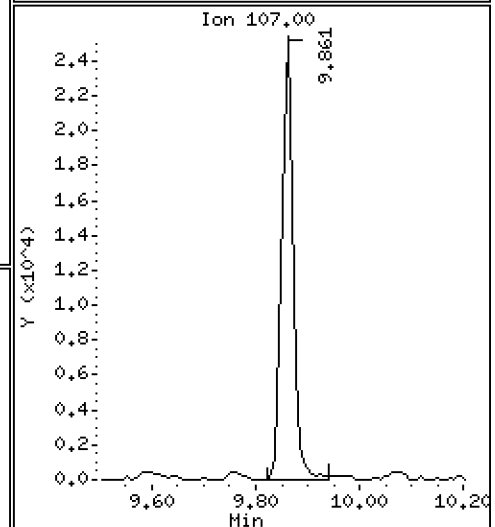
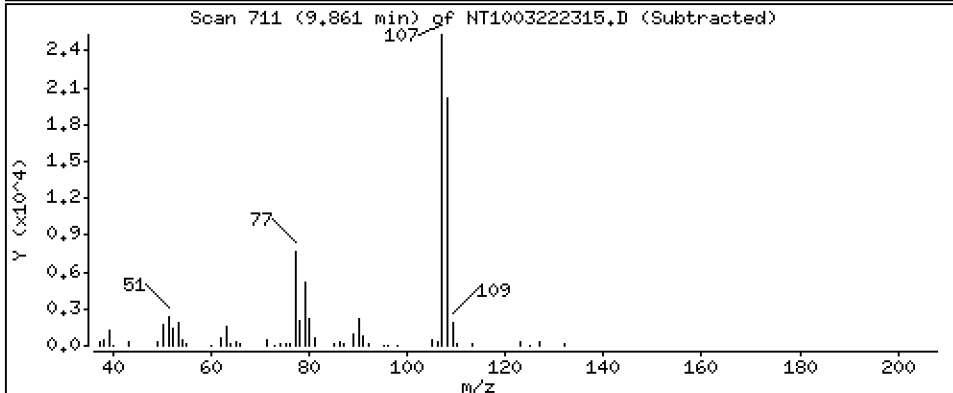
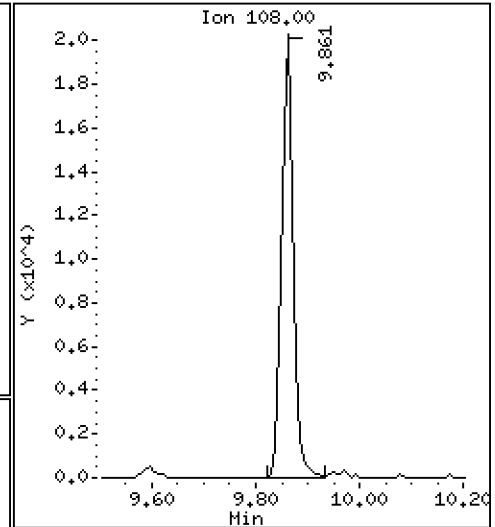
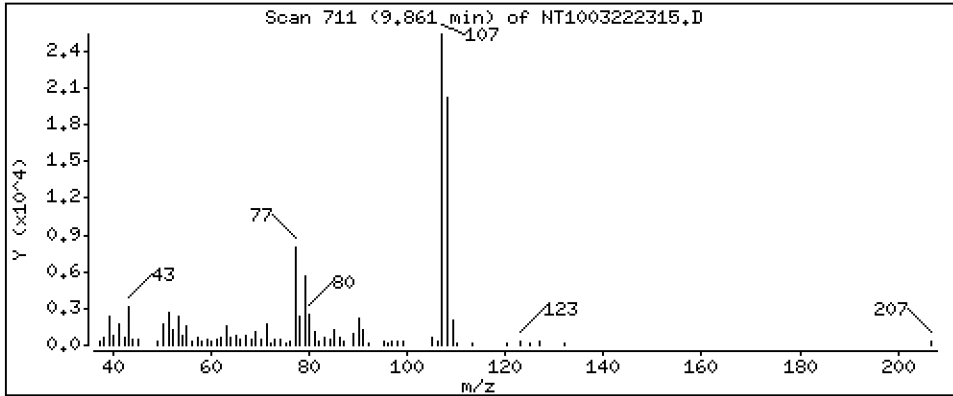
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.5828 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

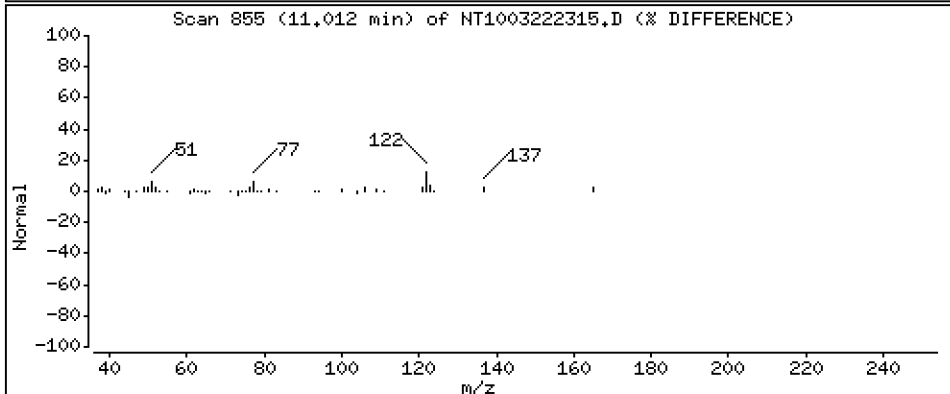
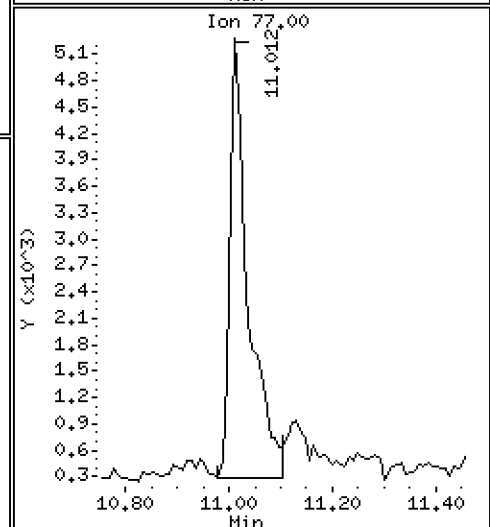
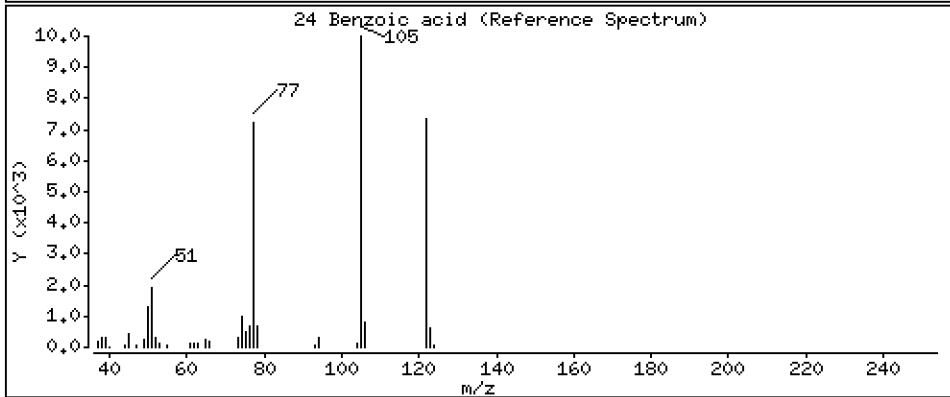
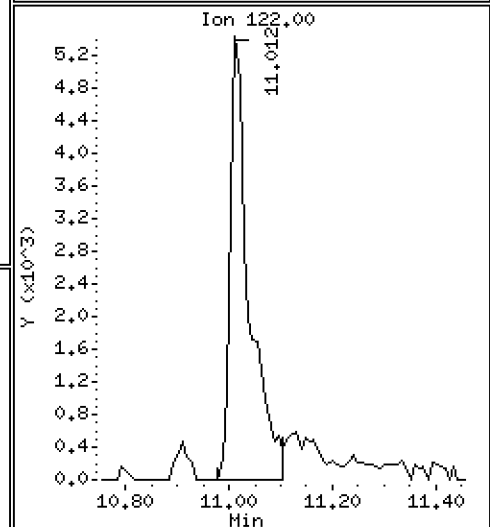
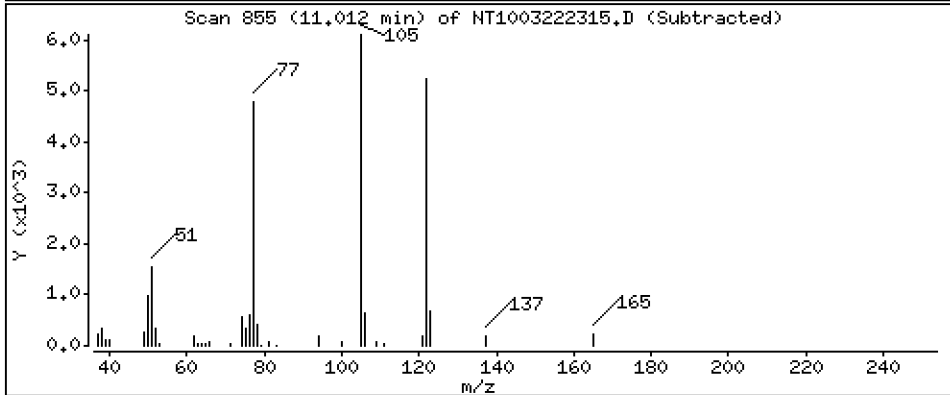
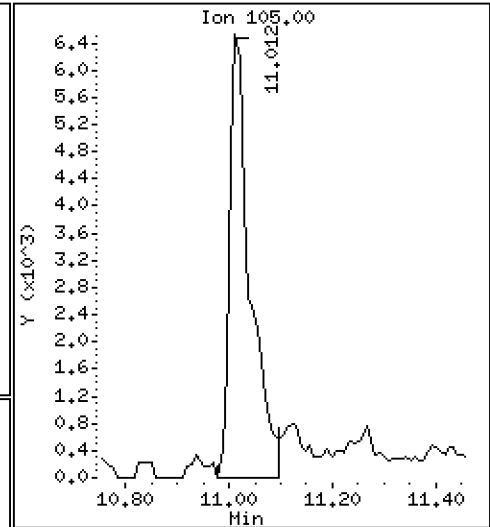
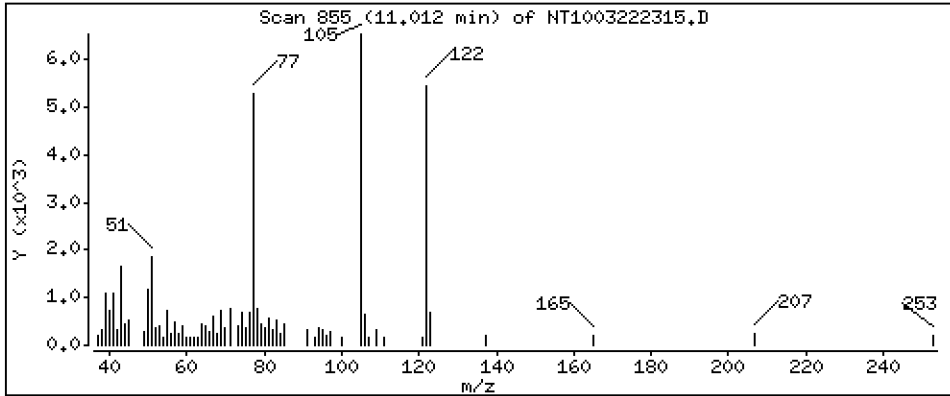
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,5854 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

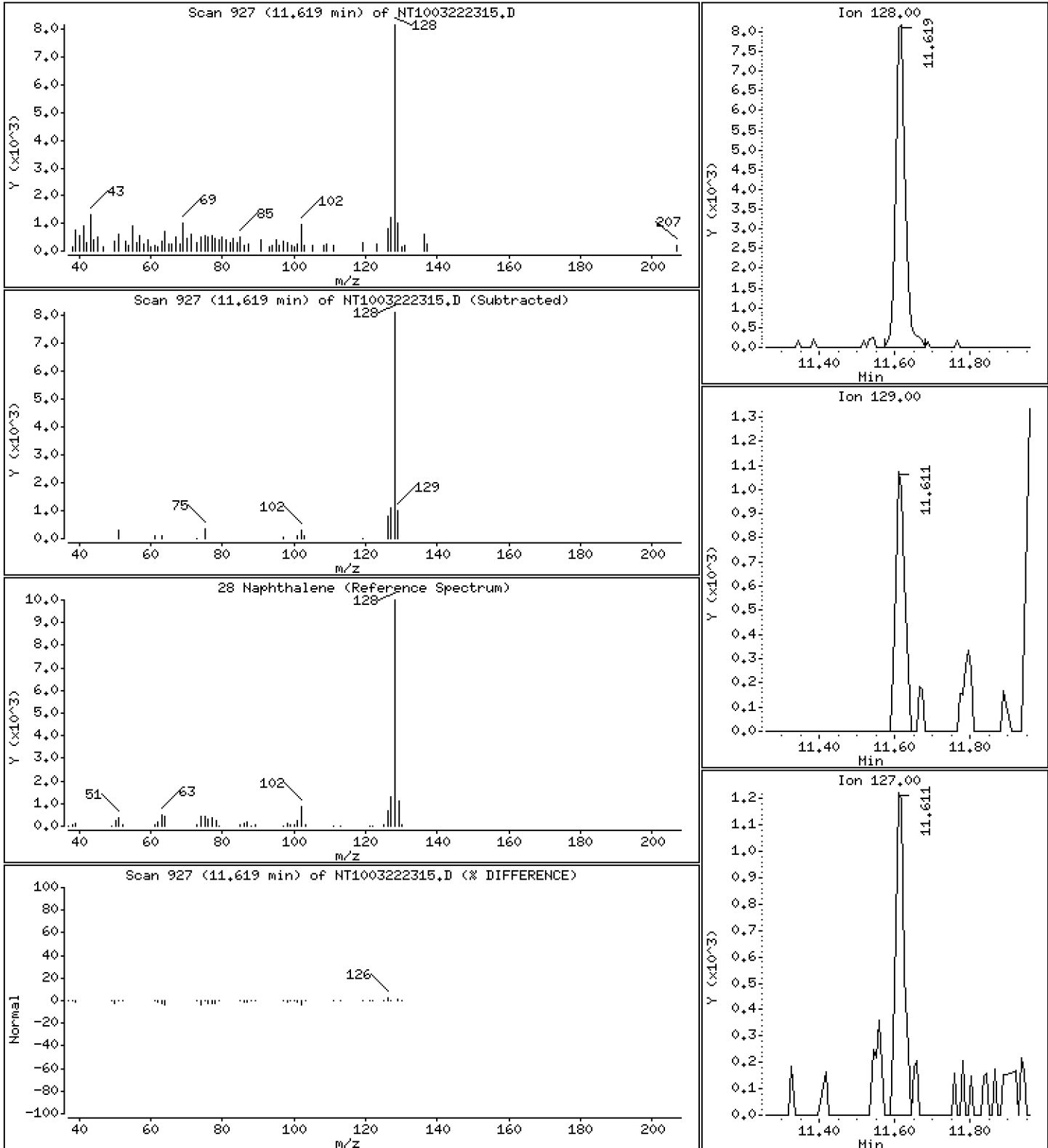
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 0.08723 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

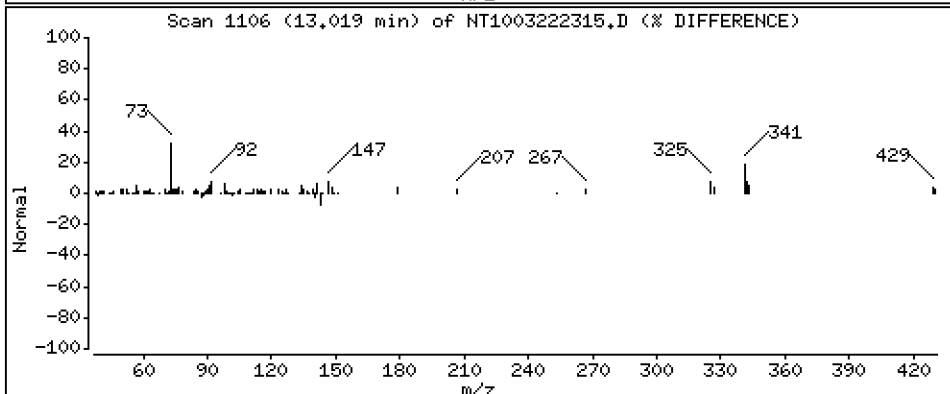
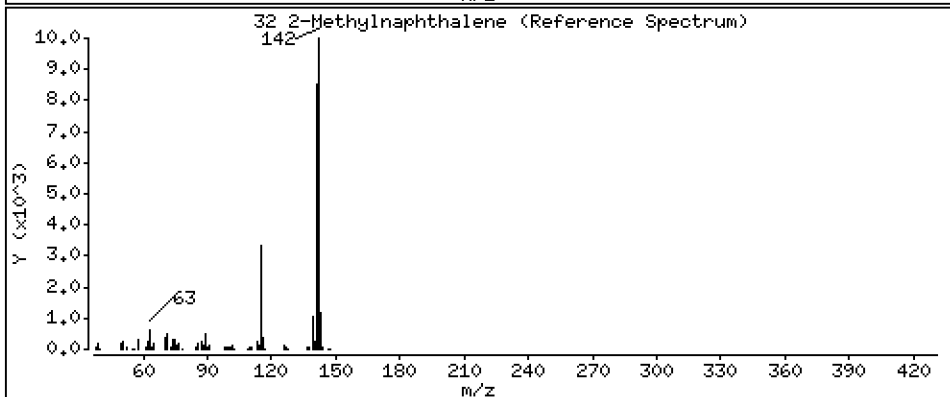
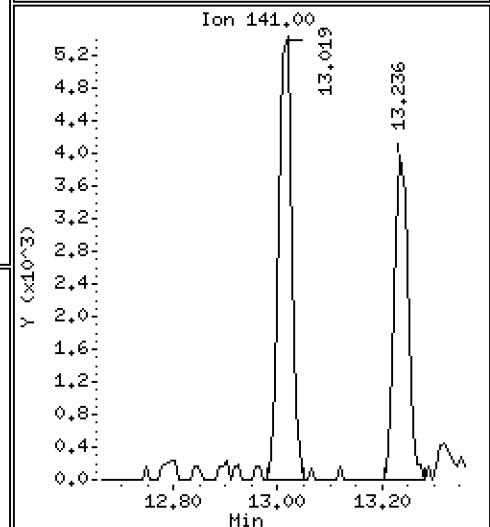
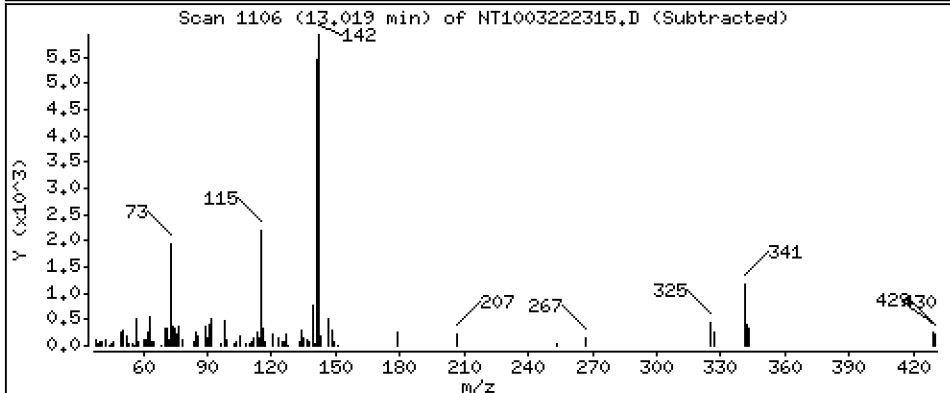
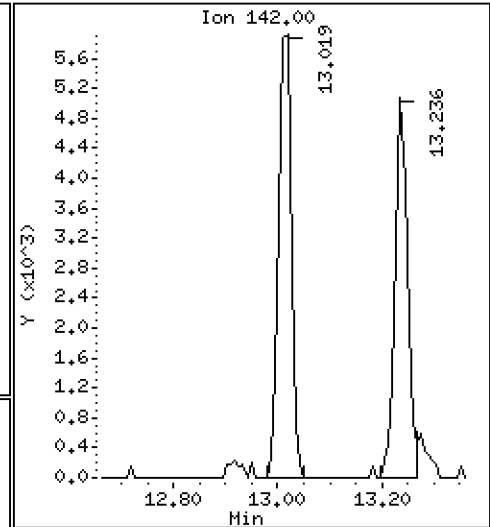
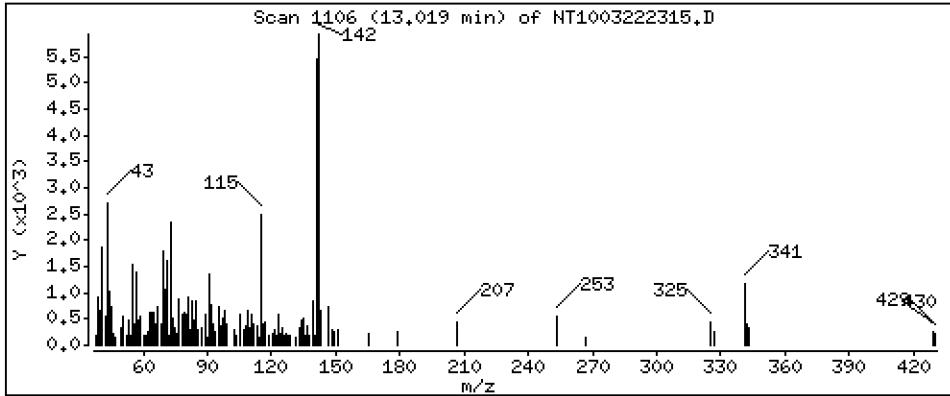
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,08131 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

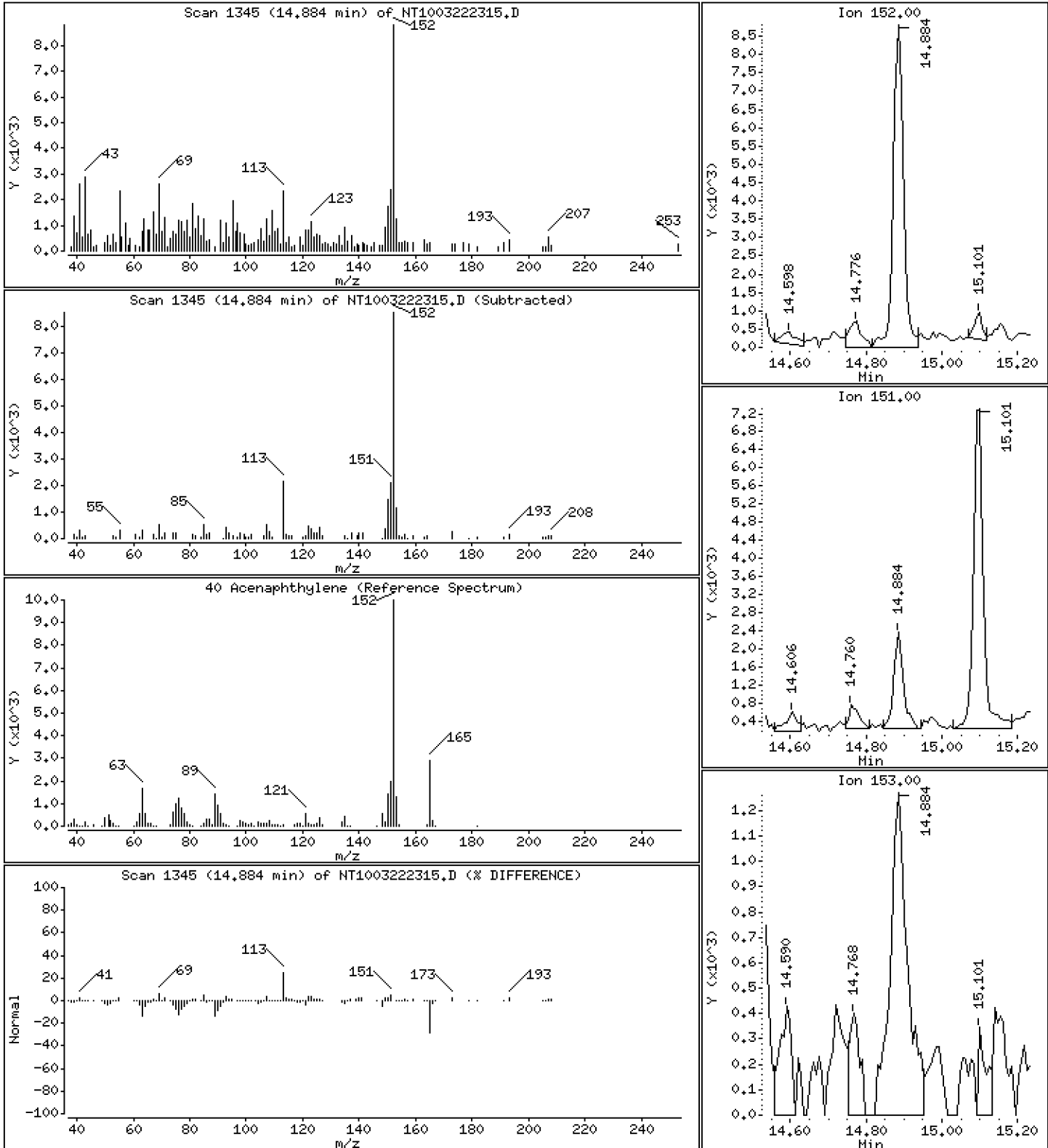
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 0.09275 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

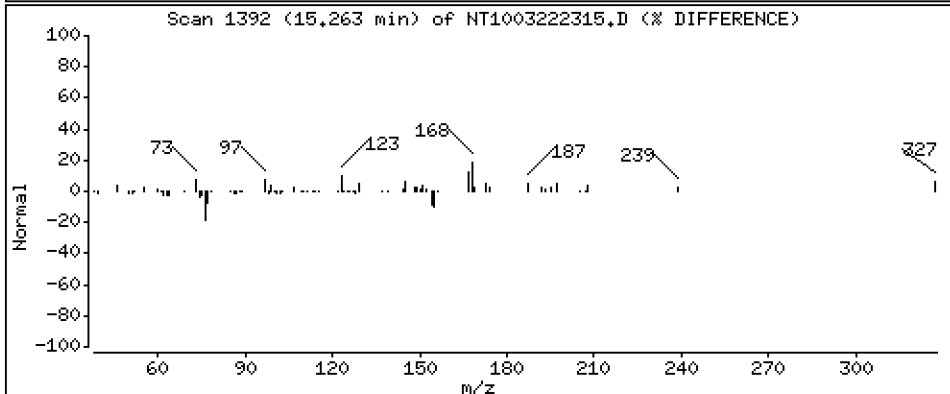
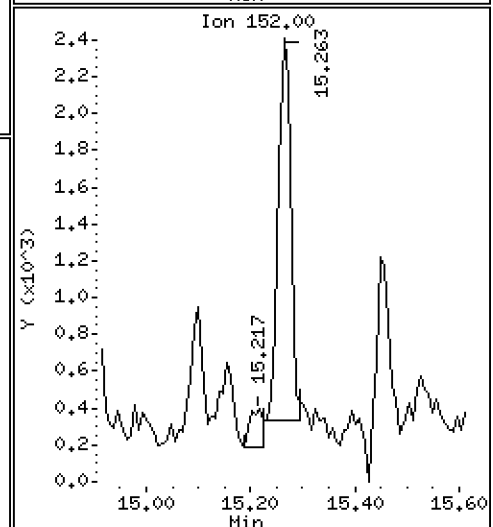
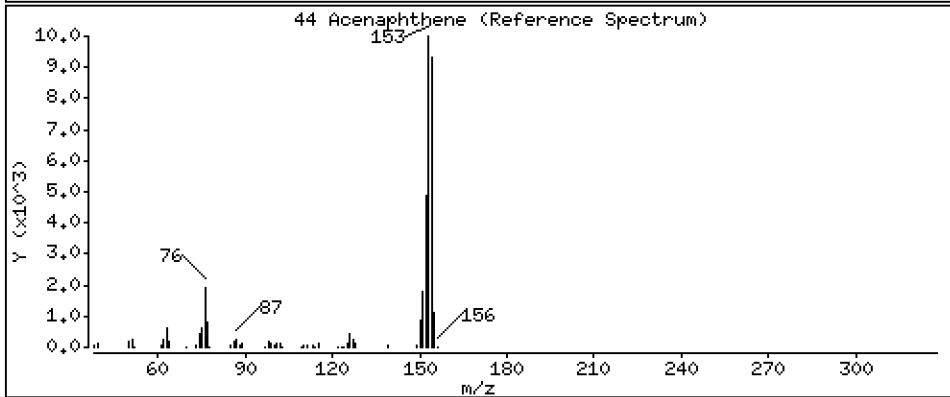
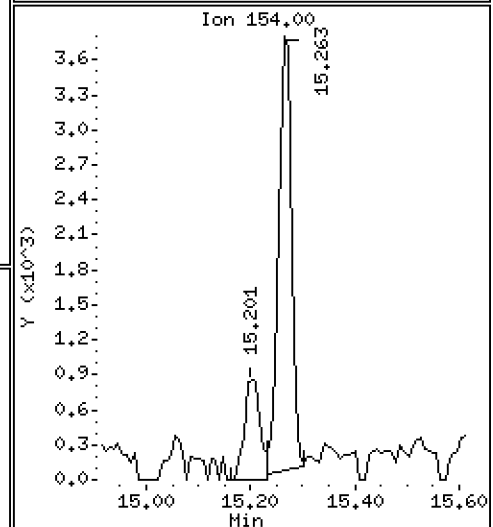
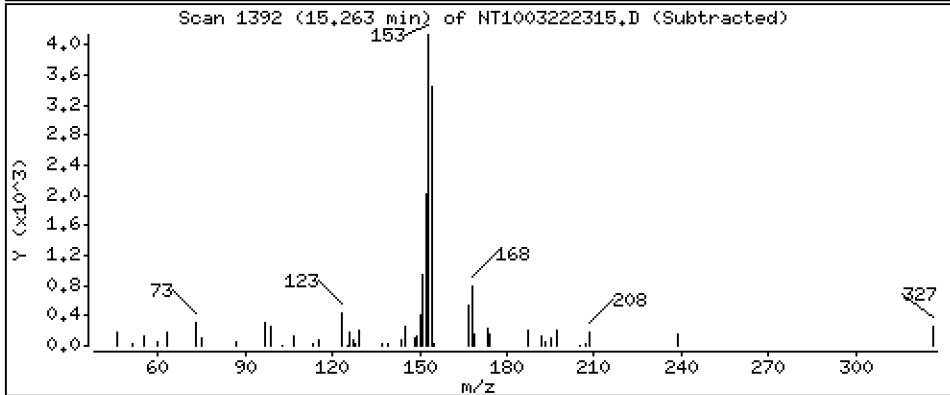
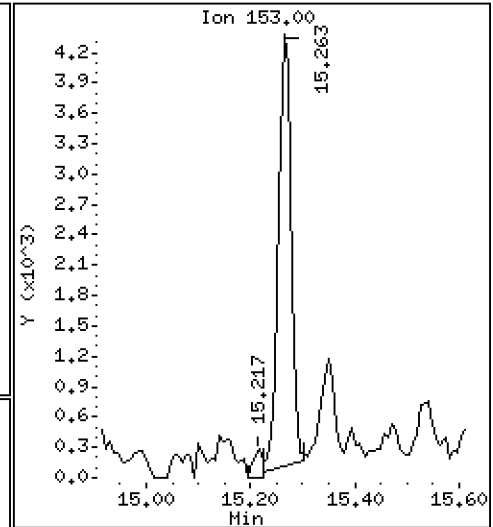
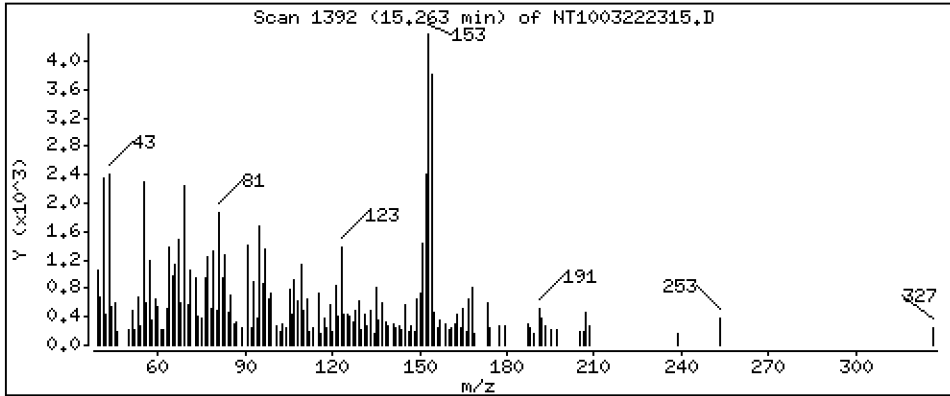
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 0.06535 ug/mL





Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

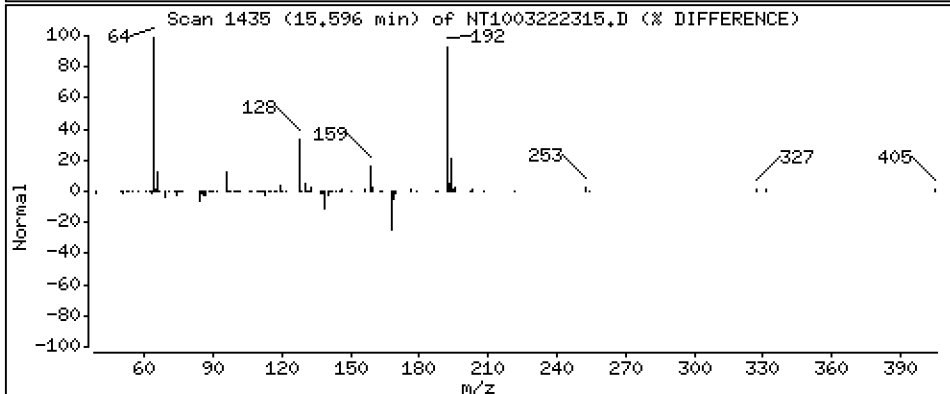
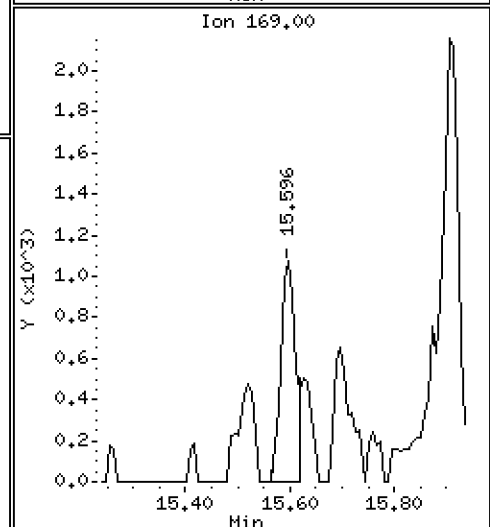
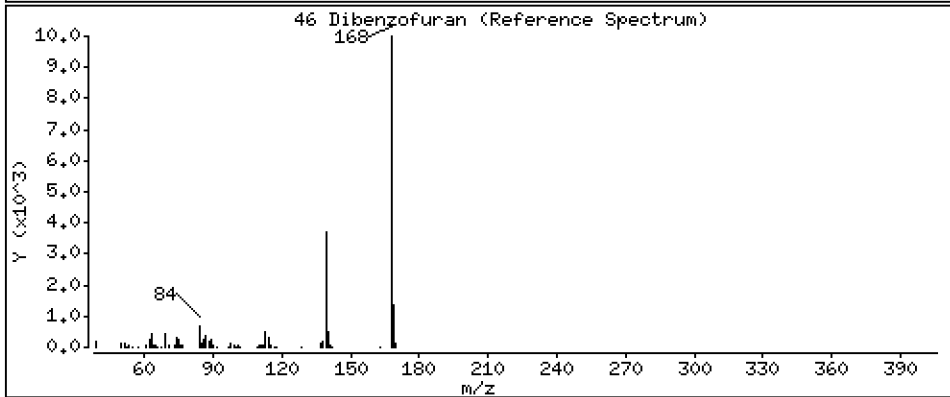
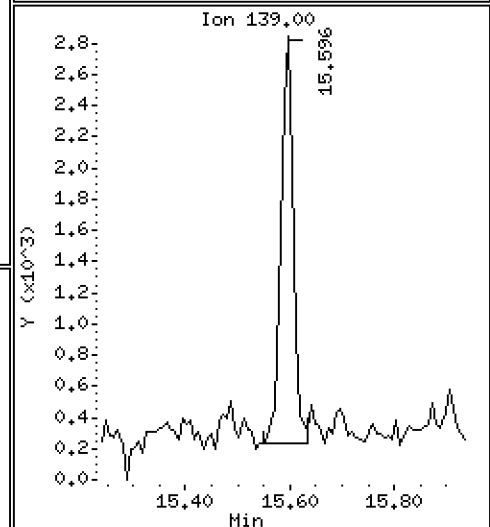
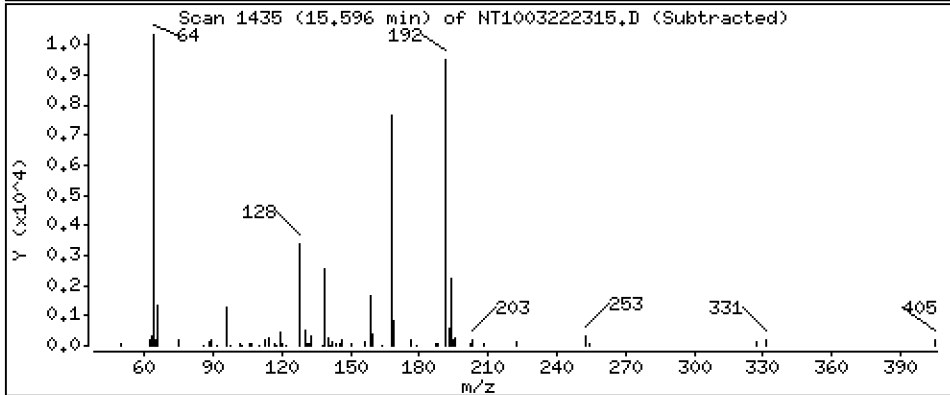
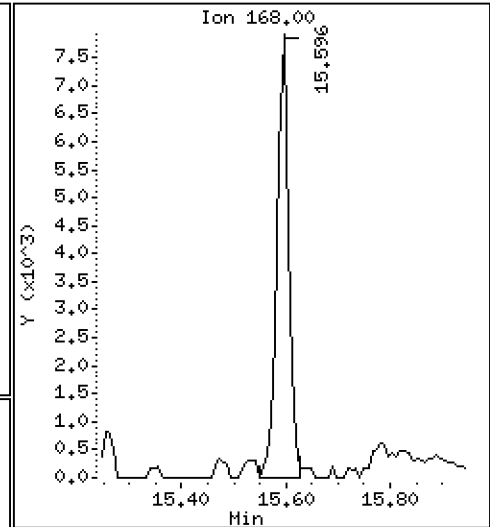
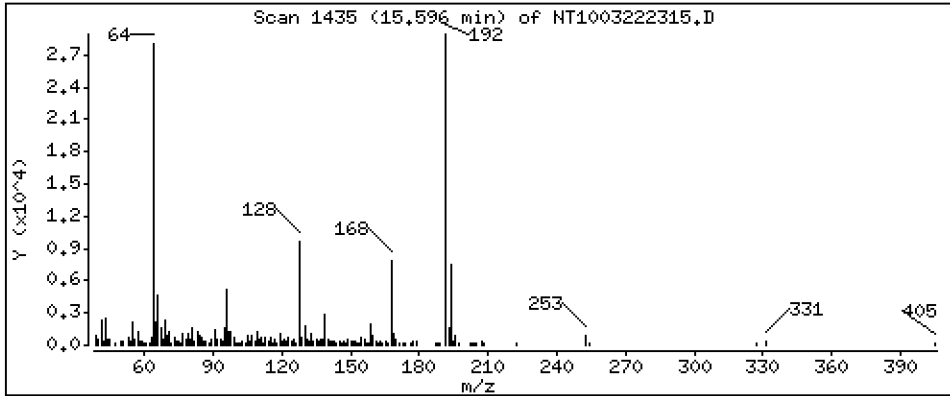
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,07461 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

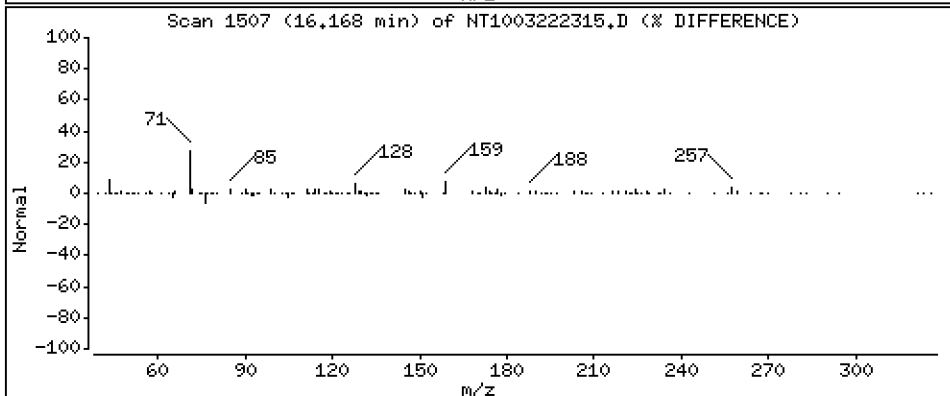
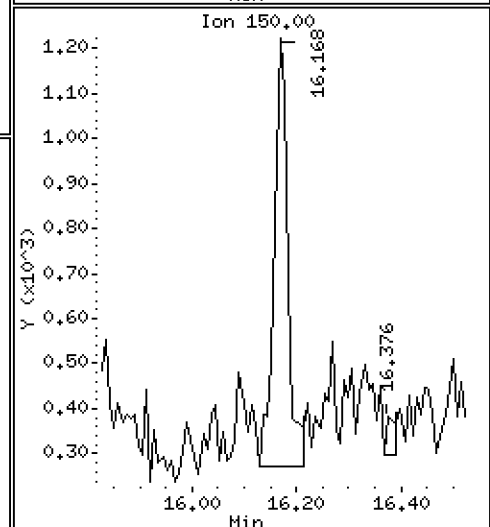
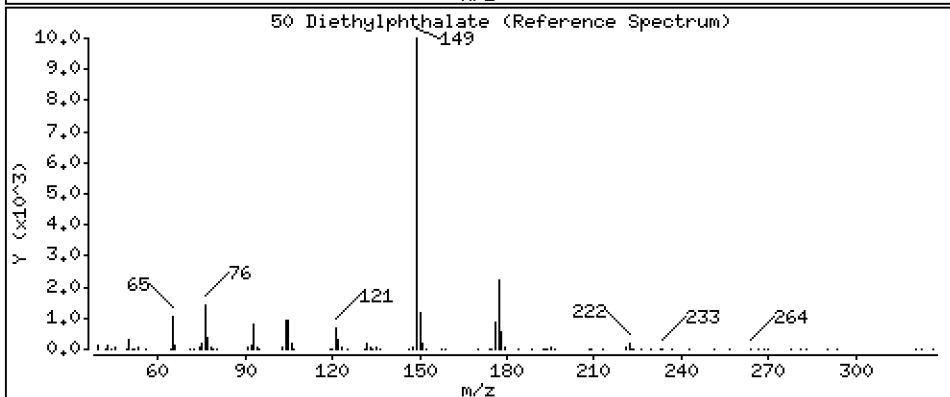
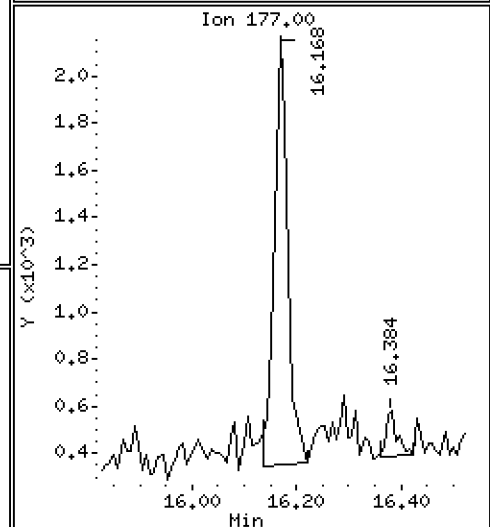
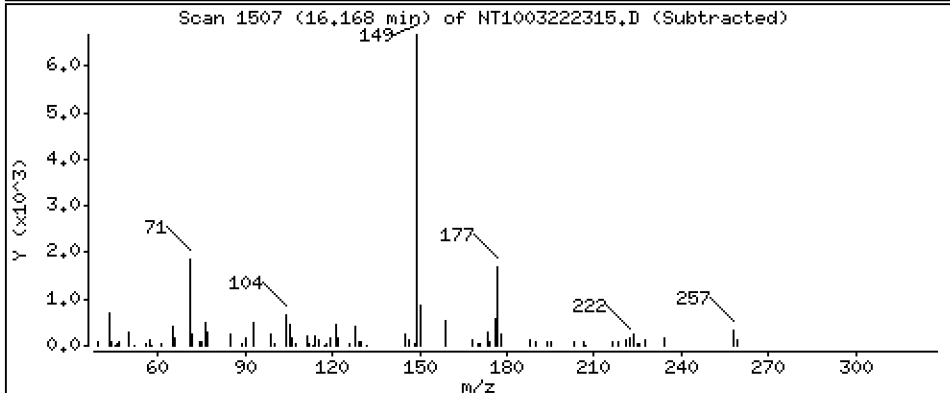
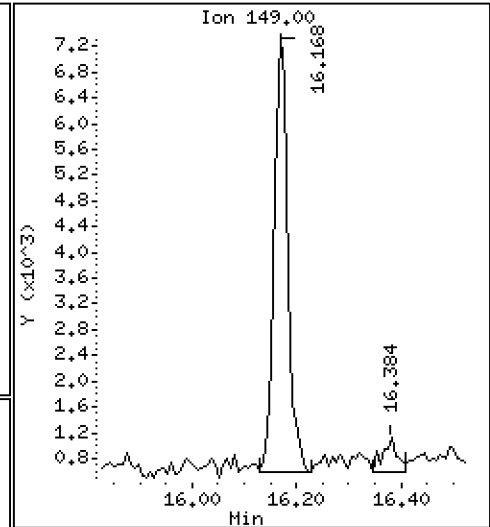
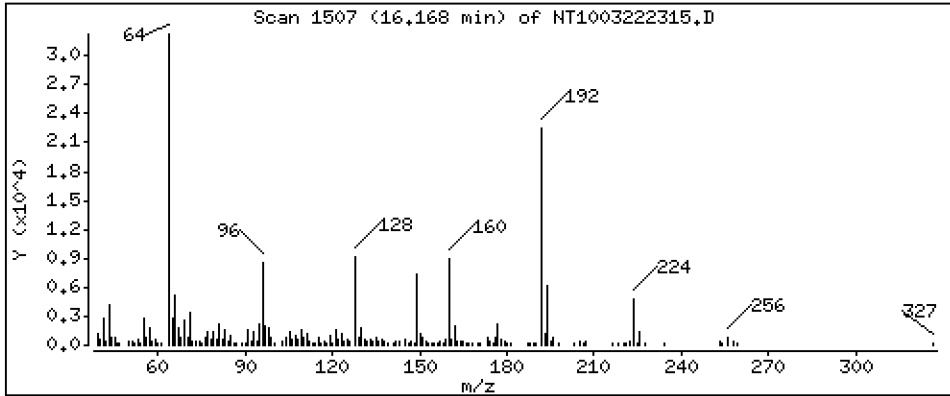
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 0.1218 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

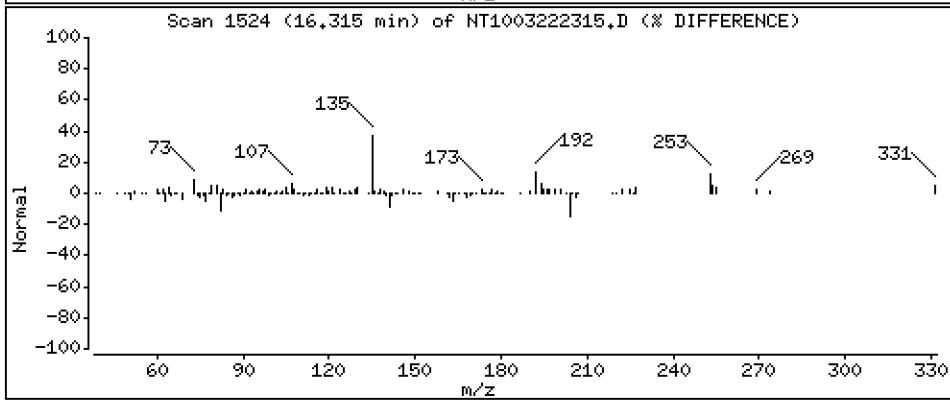
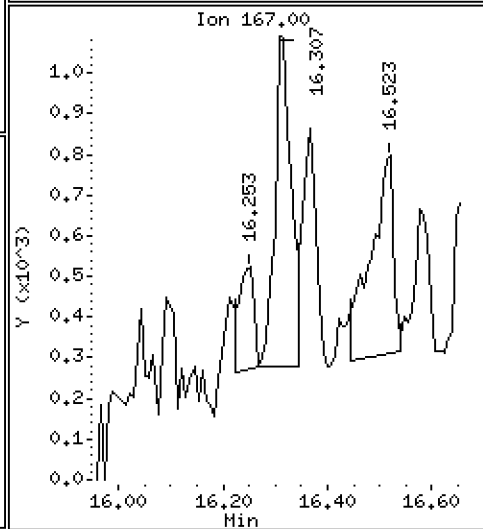
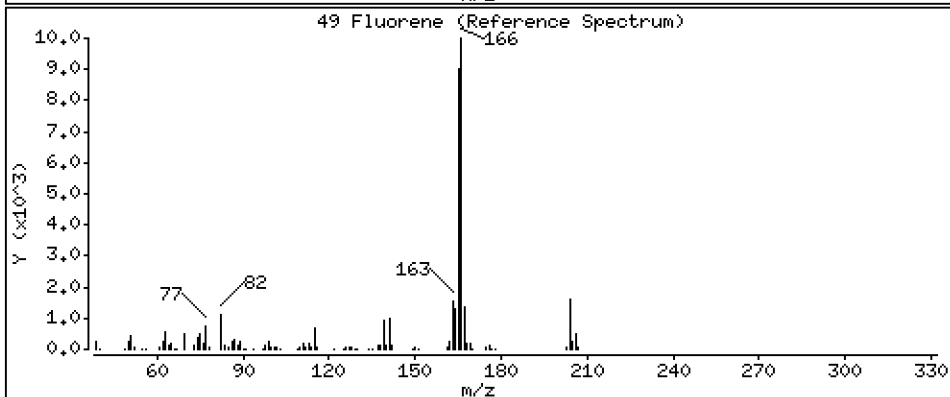
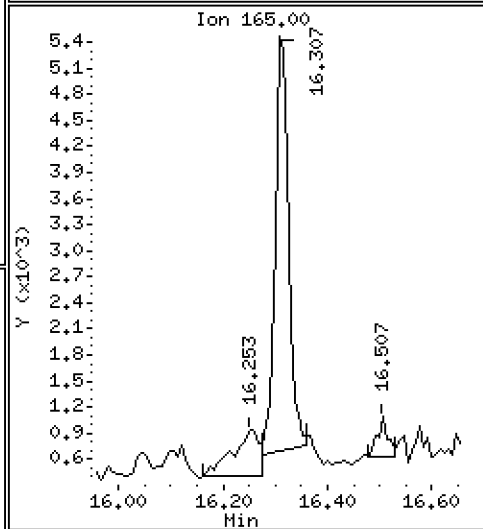
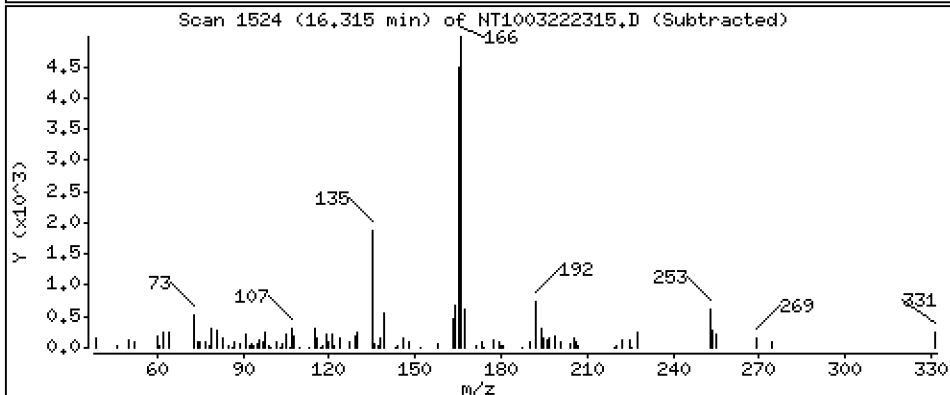
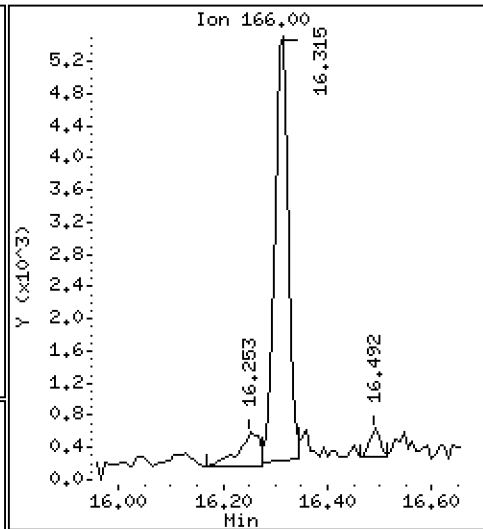
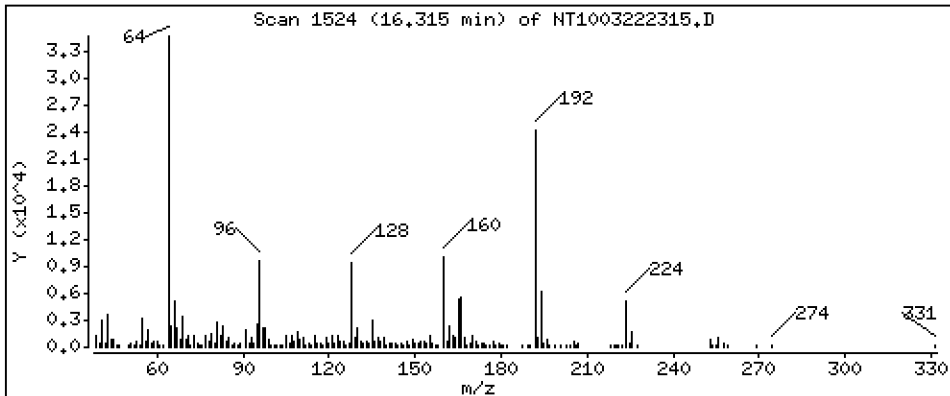
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 0.07908 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

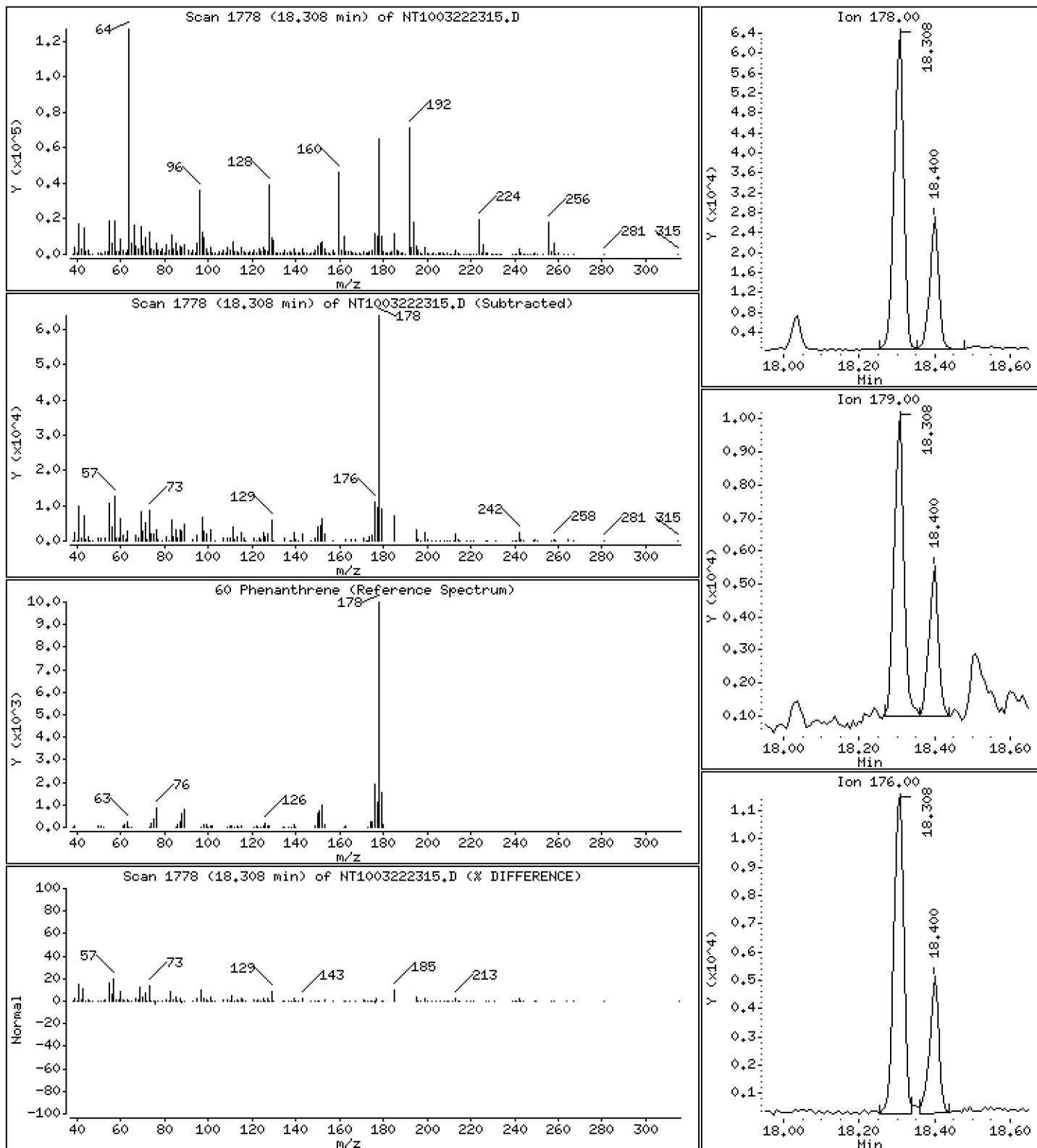
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,6027 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

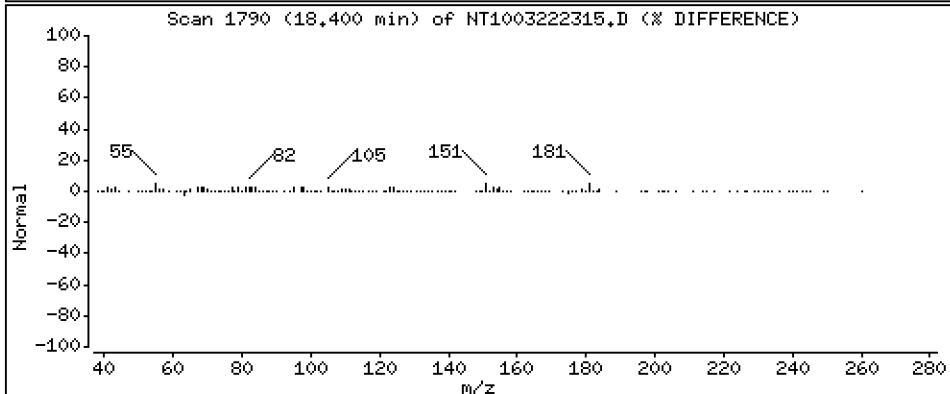
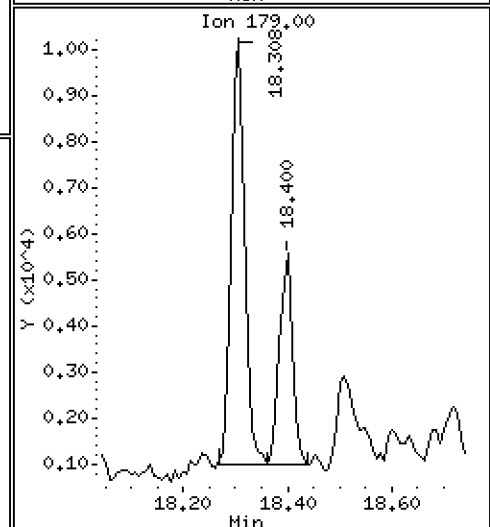
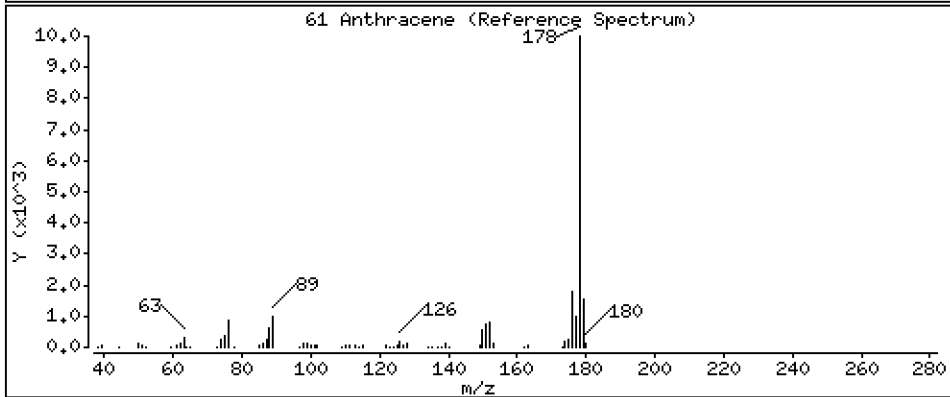
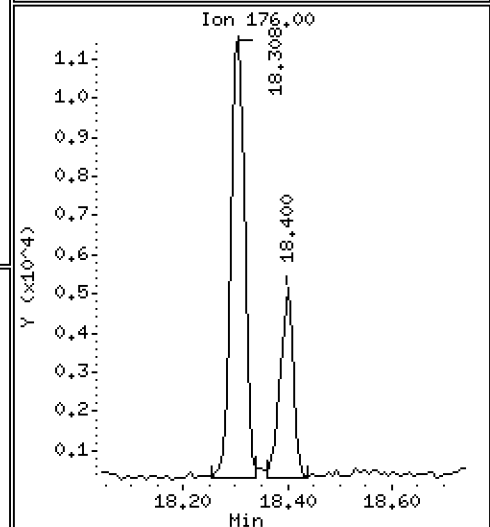
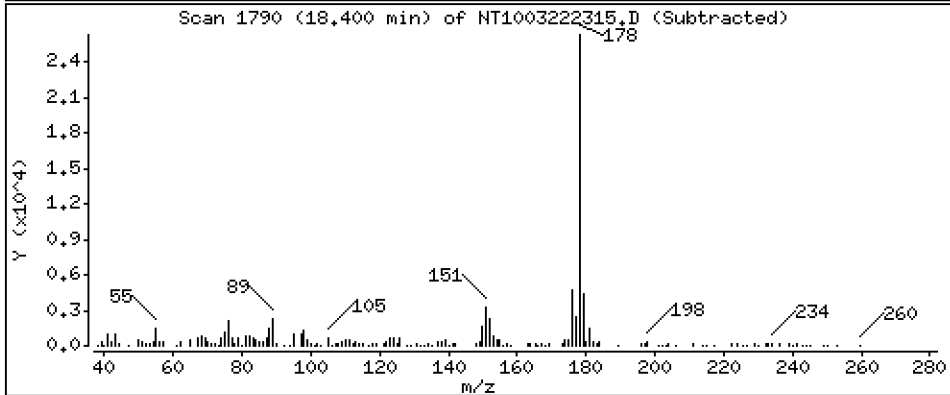
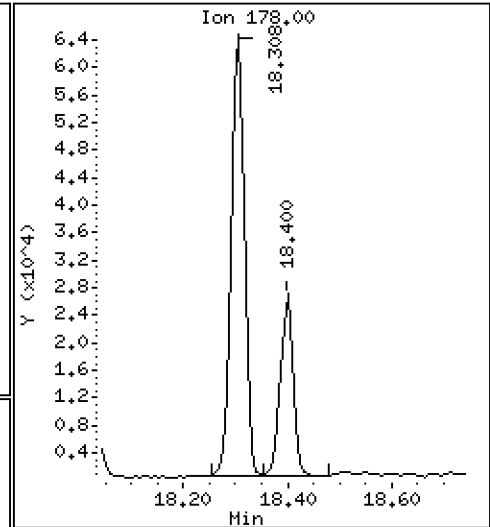
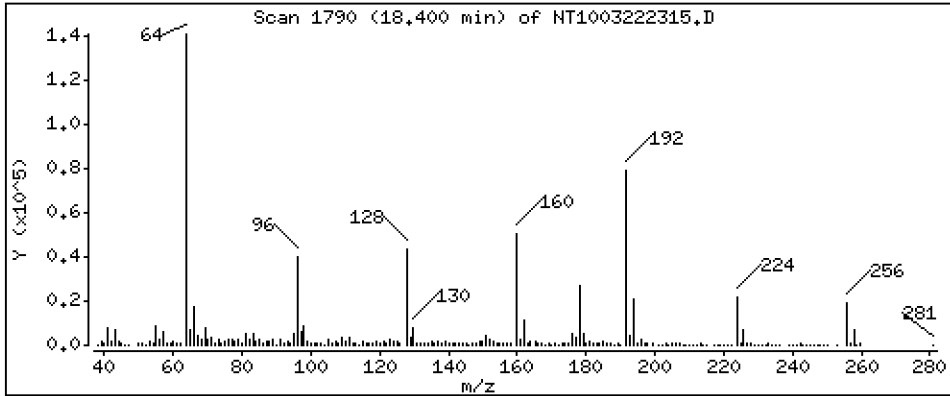
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2546 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

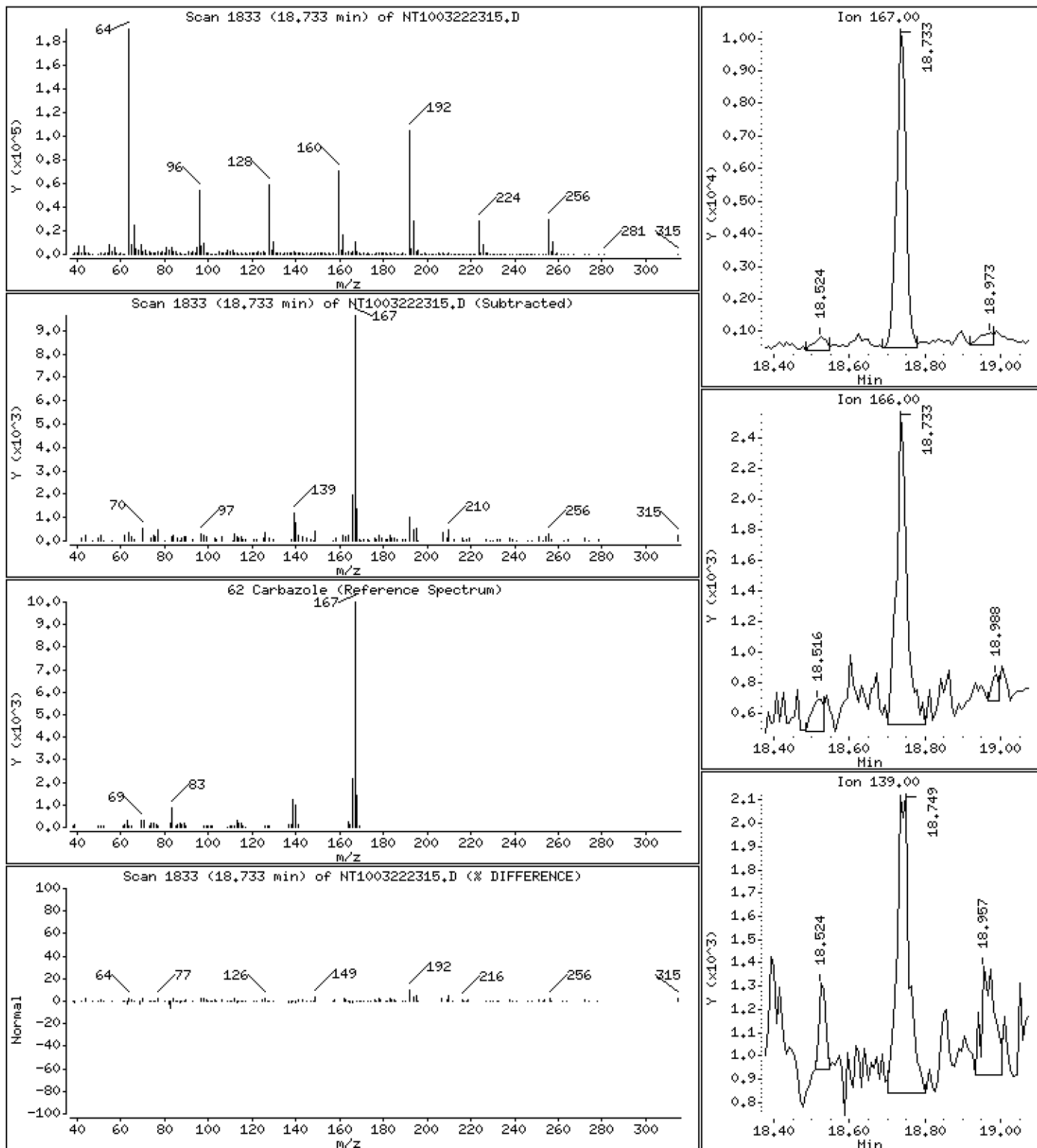
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1108 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

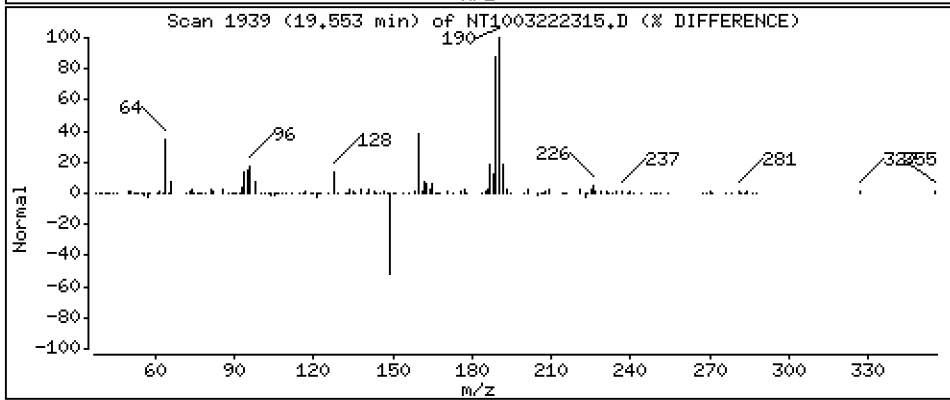
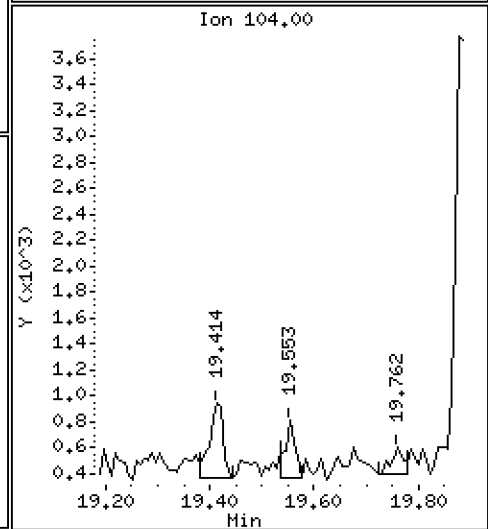
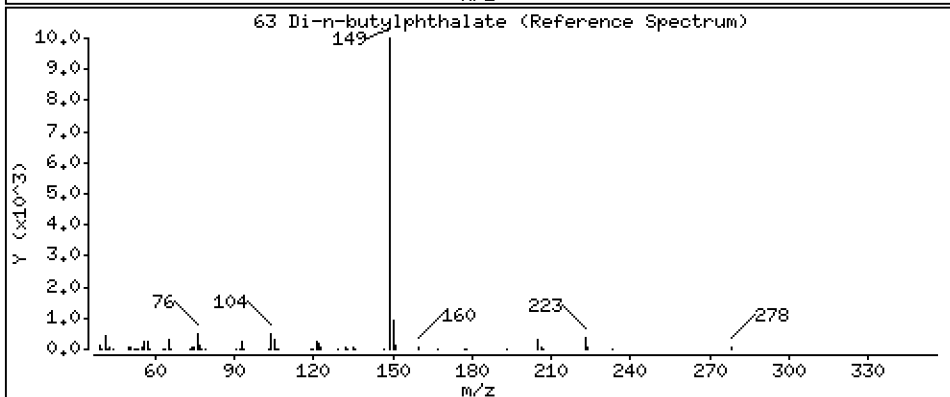
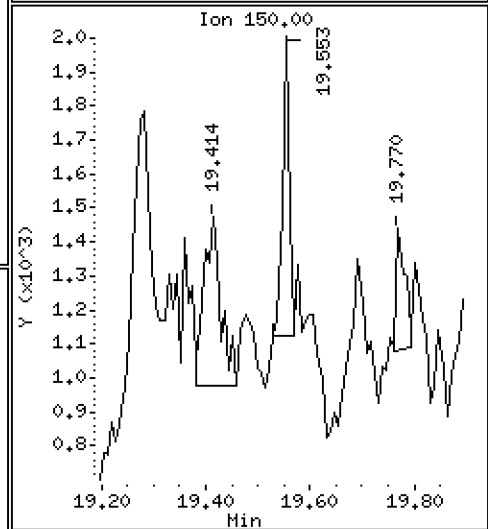
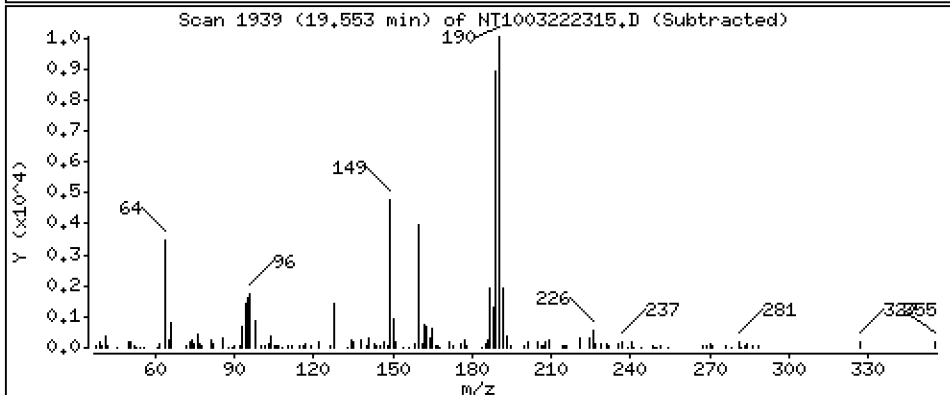
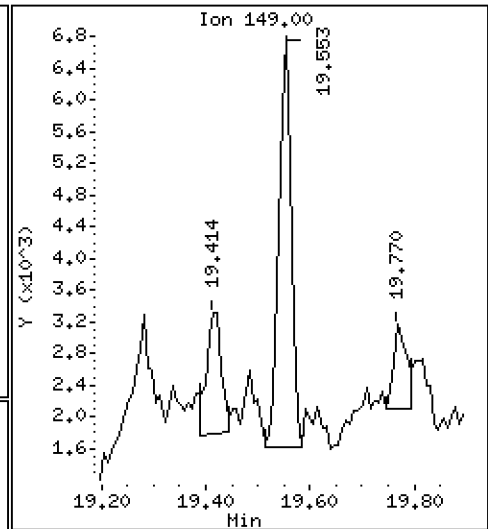
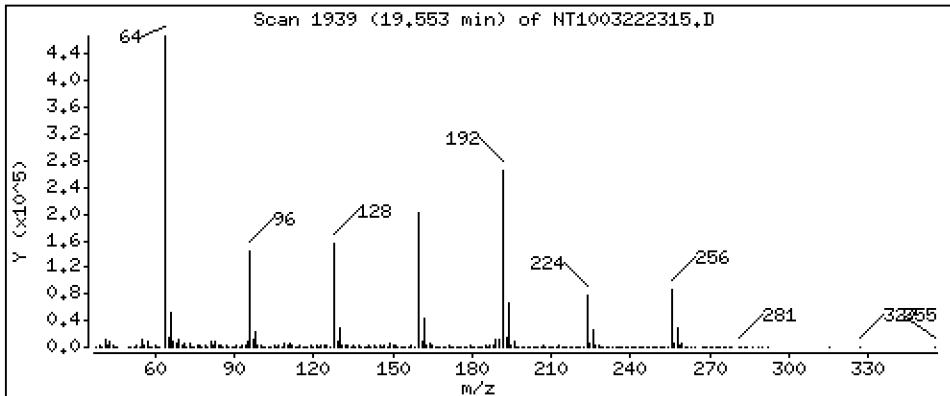
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 0.04040 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

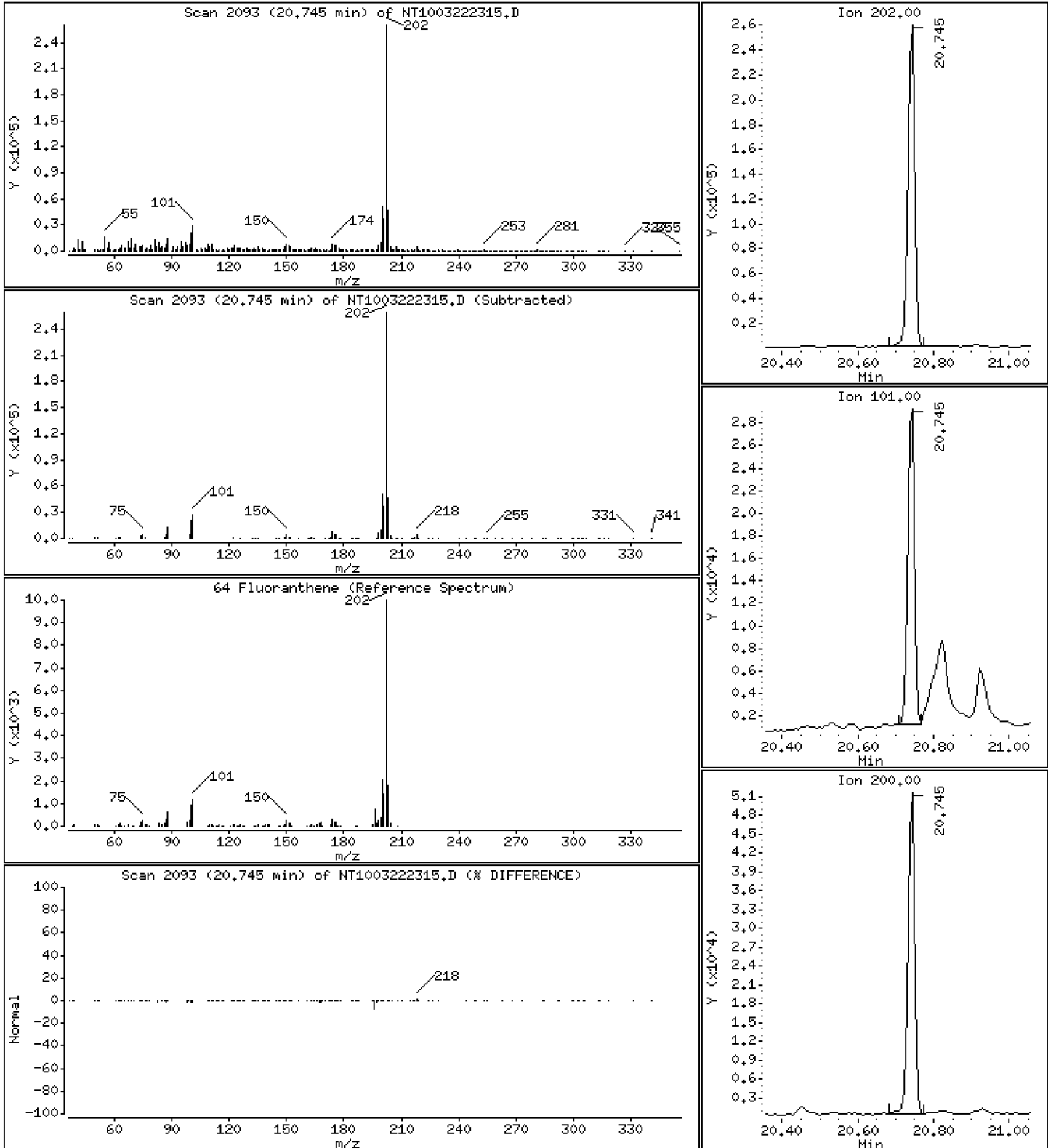
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 1,404 ug/mL





Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

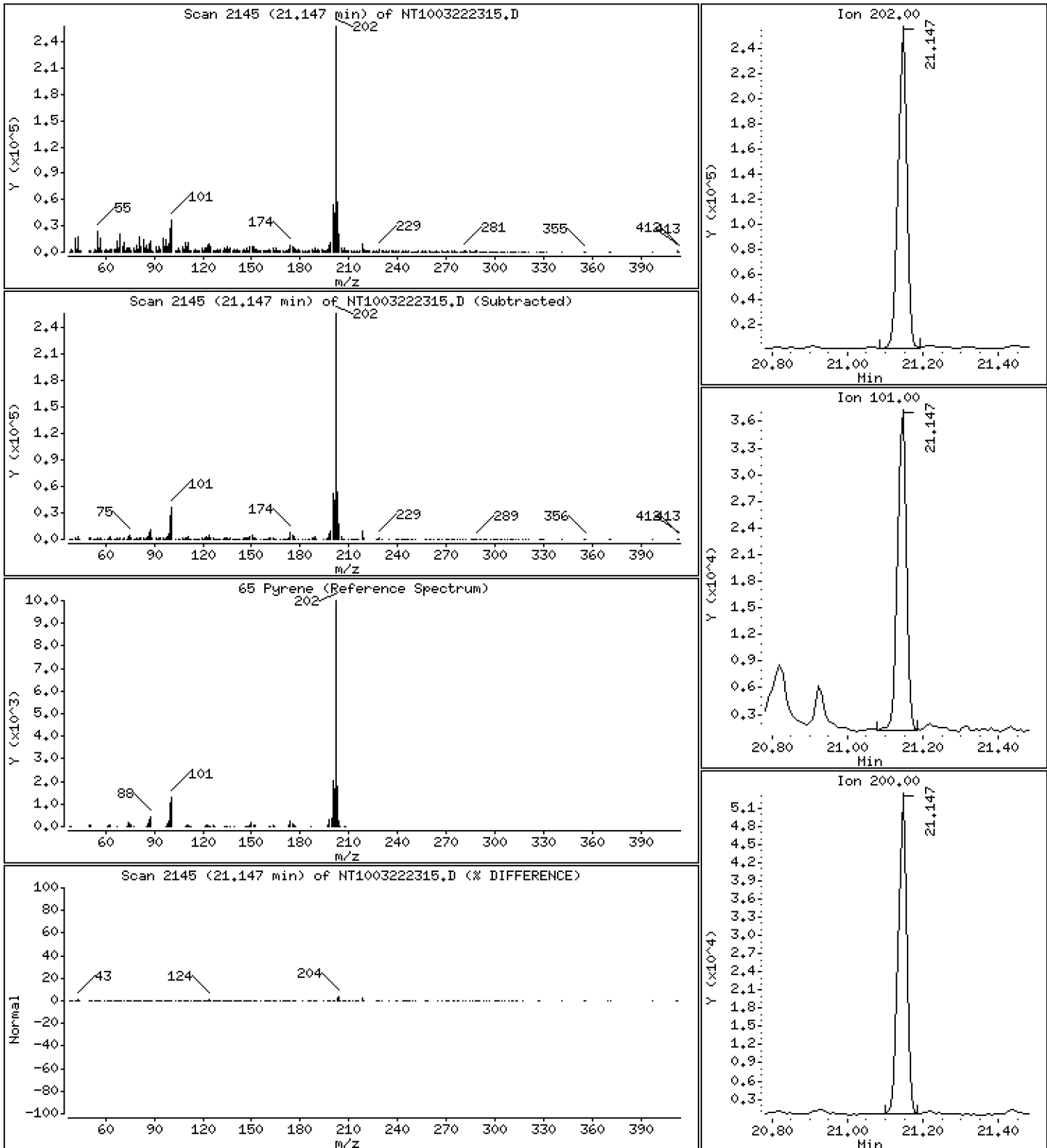
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 1,613 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

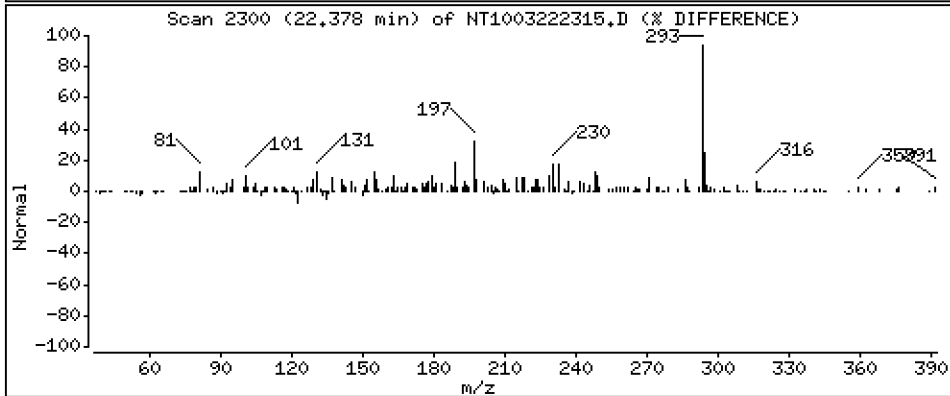
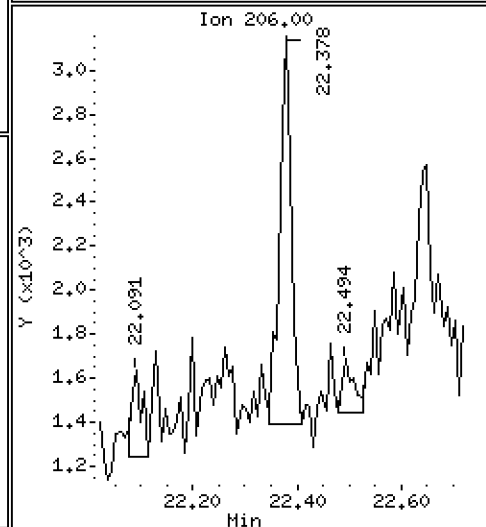
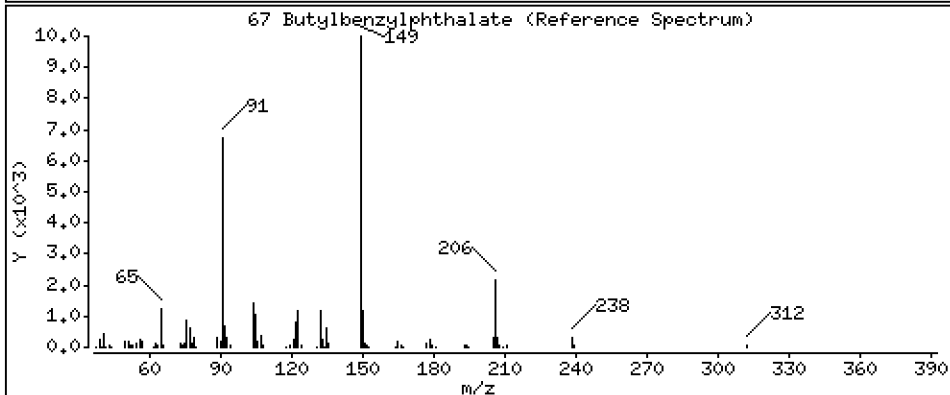
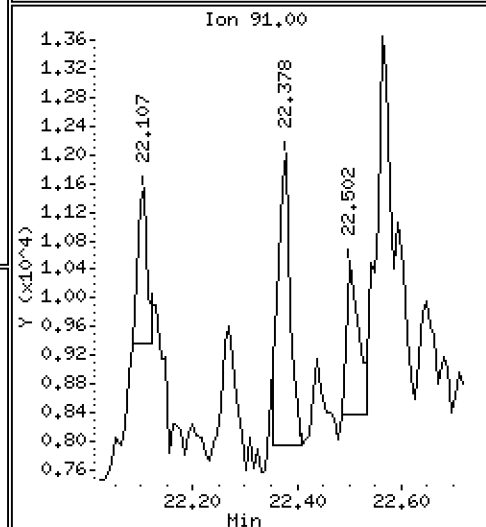
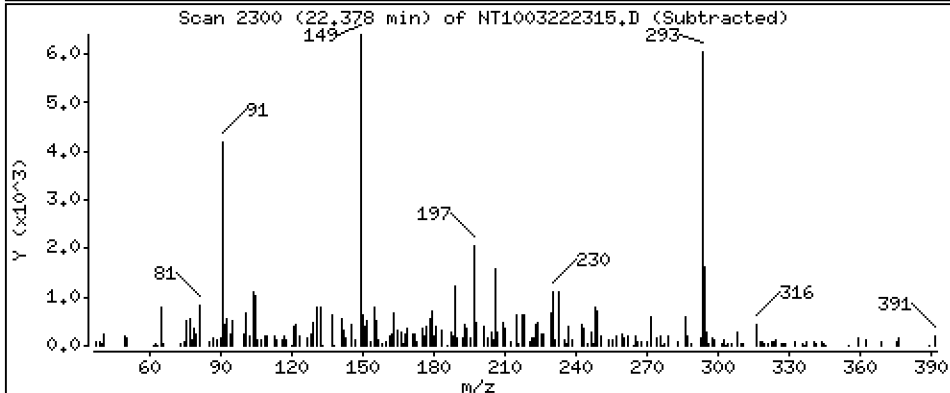
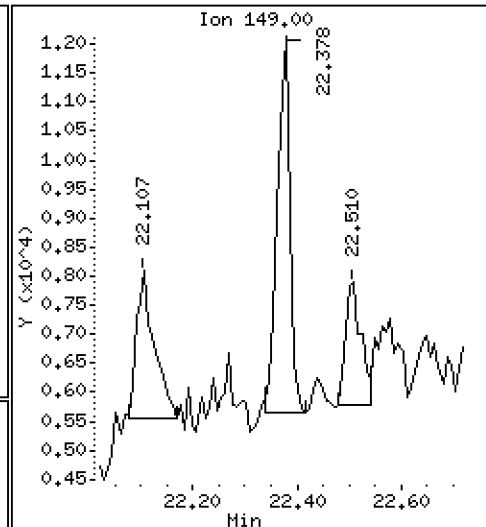
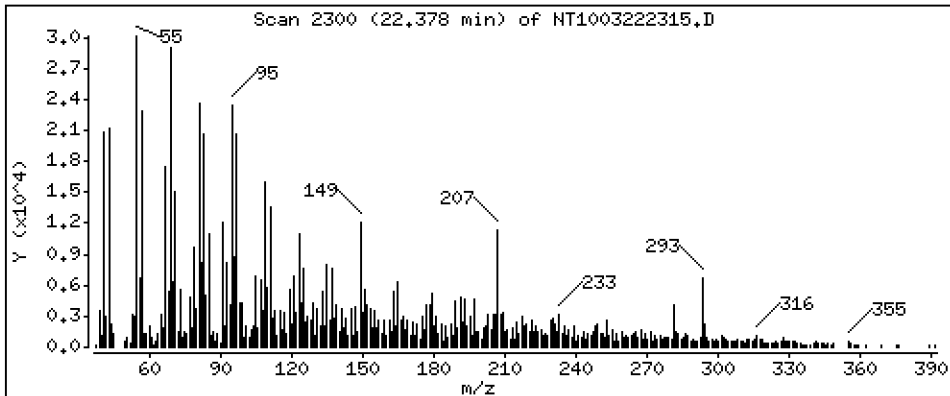
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.1215 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

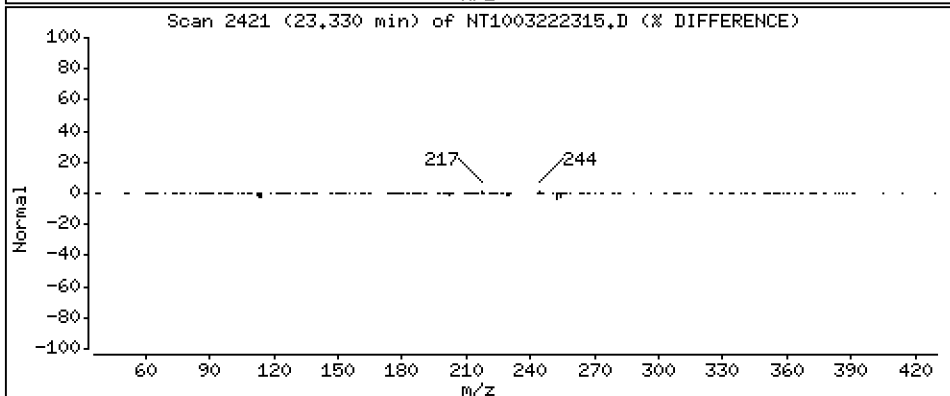
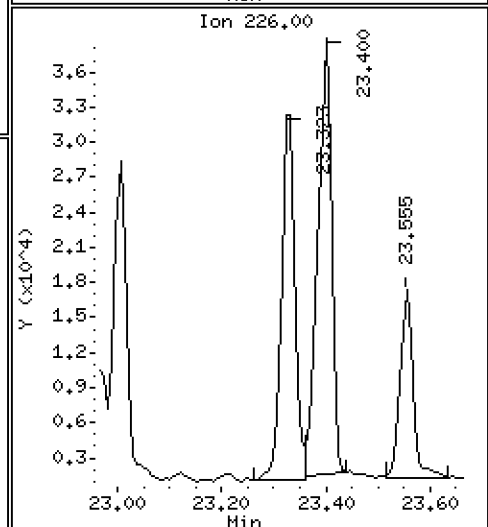
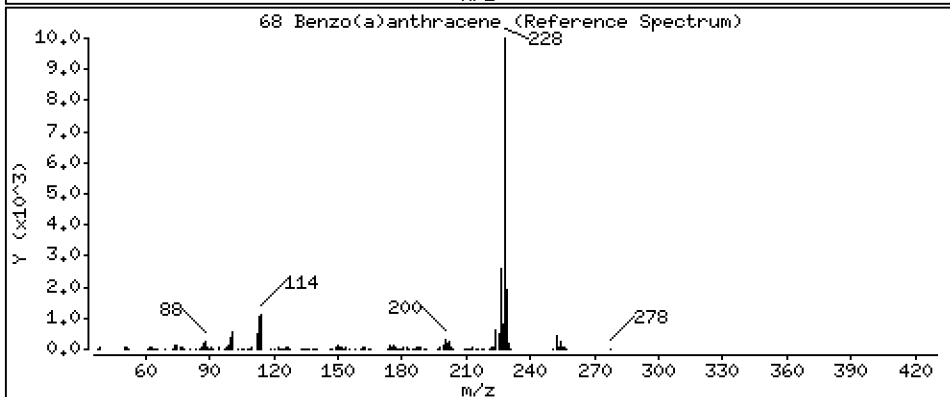
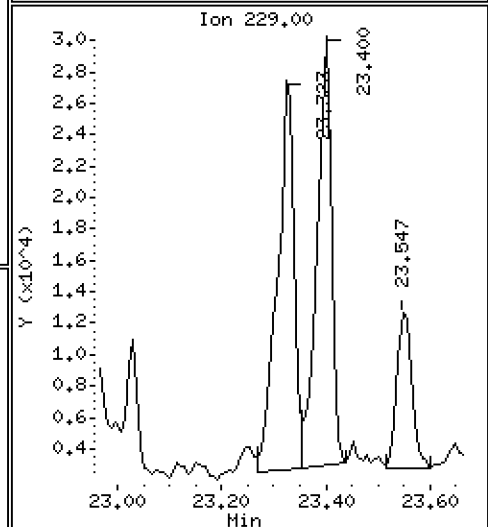
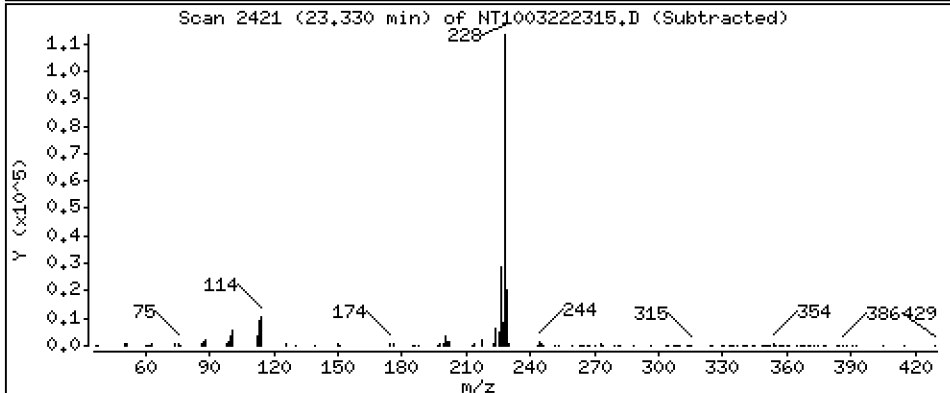
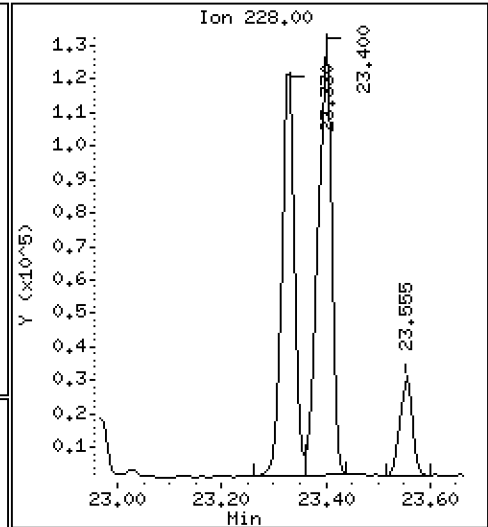
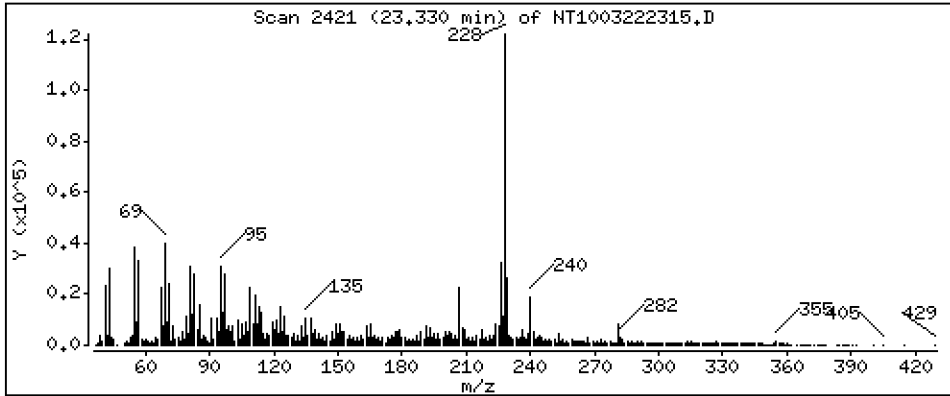
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,9903 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

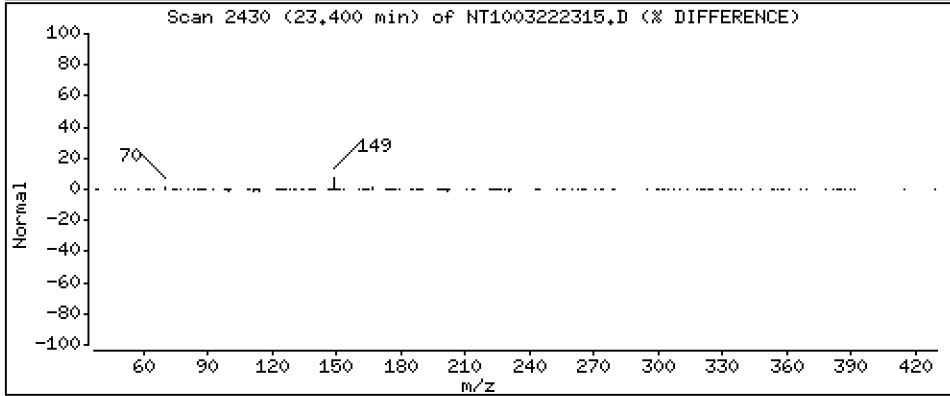
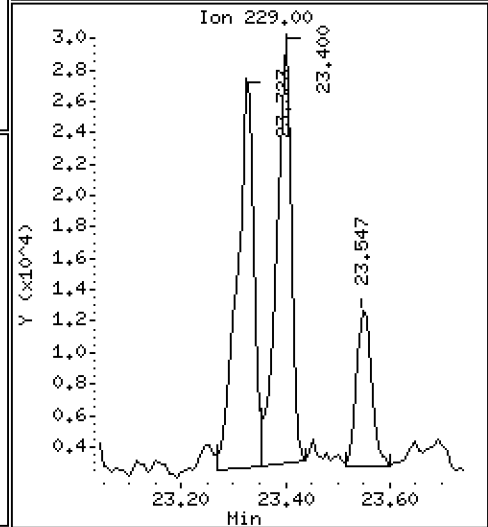
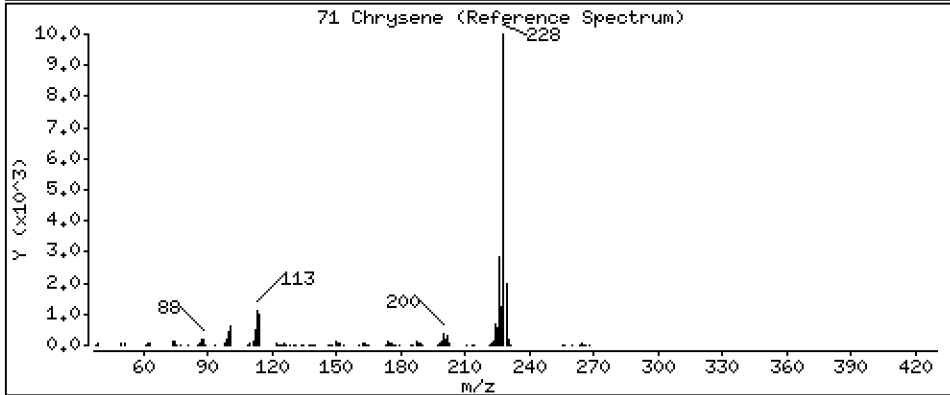
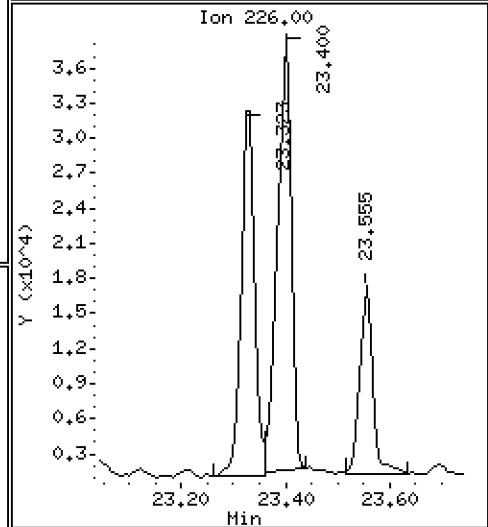
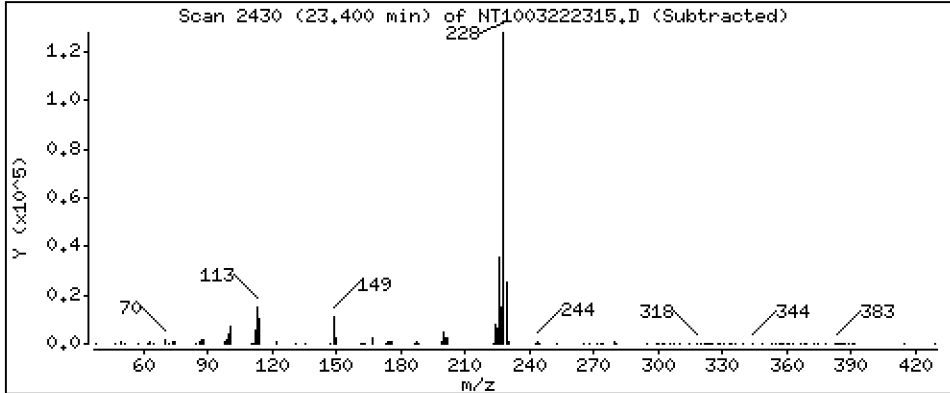
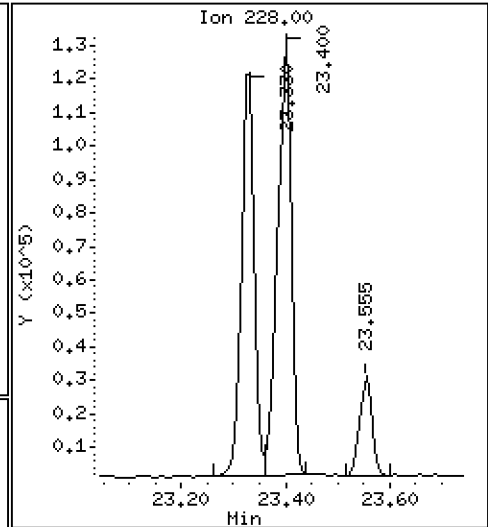
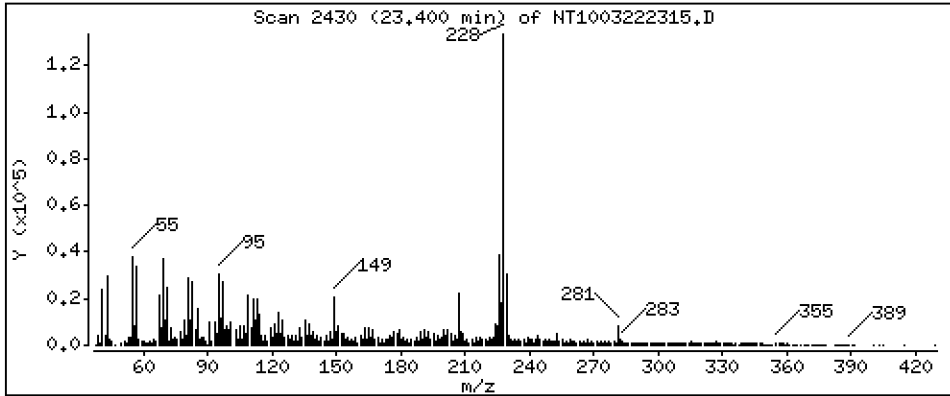
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 1,128 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

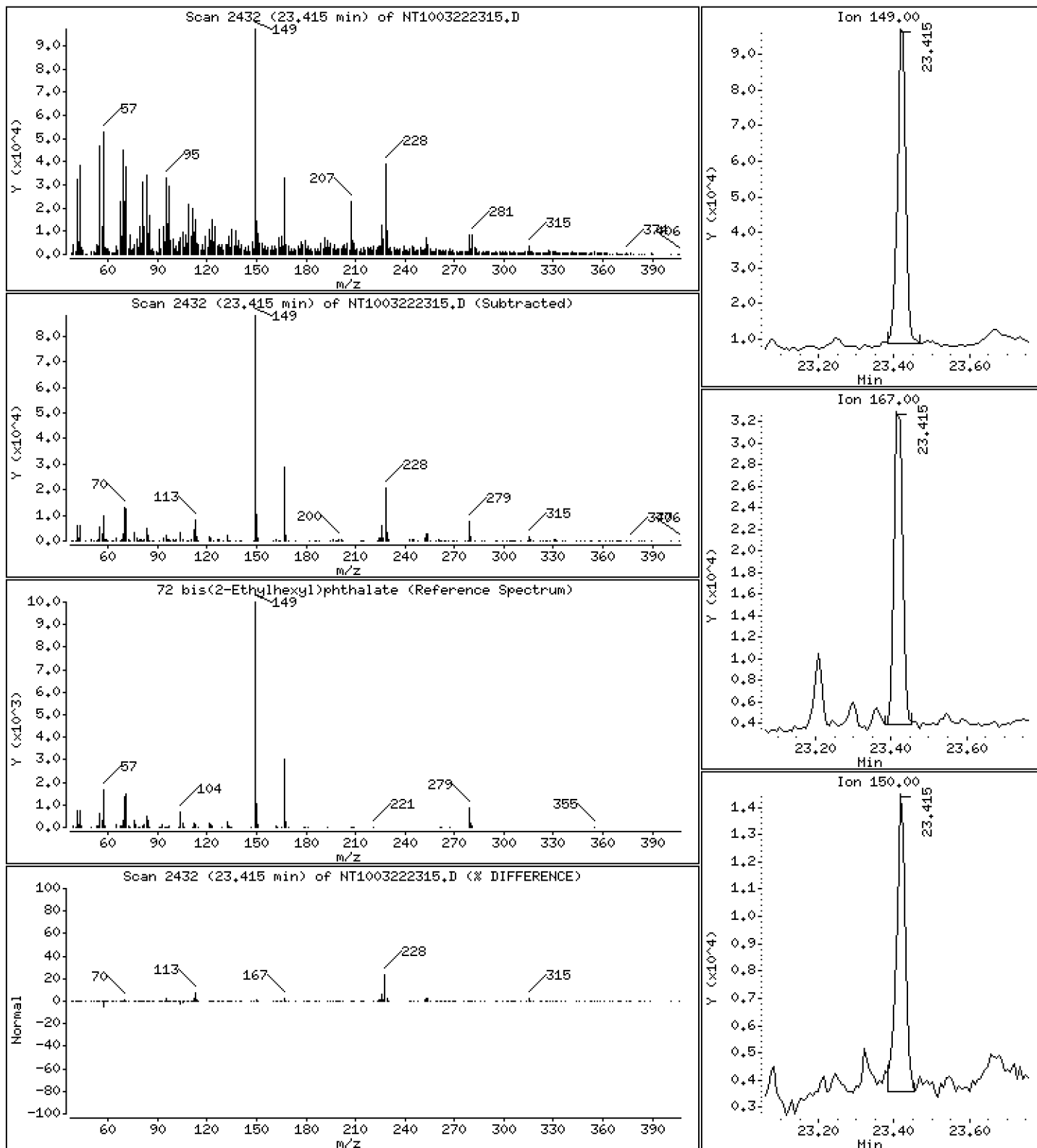
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,9413 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

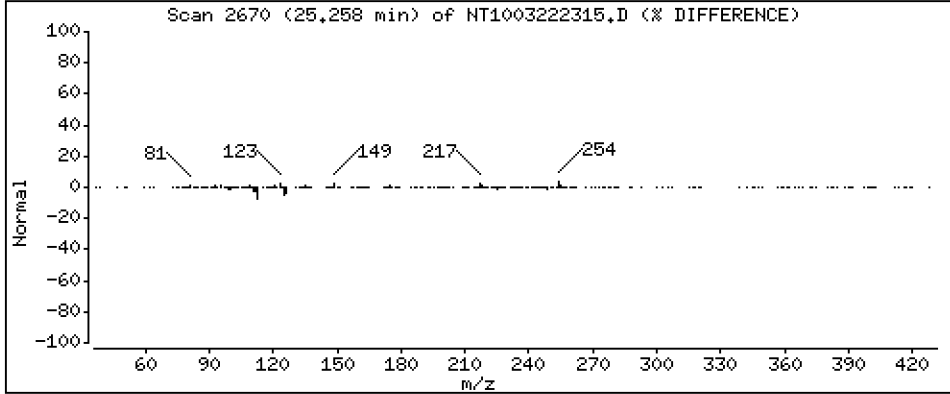
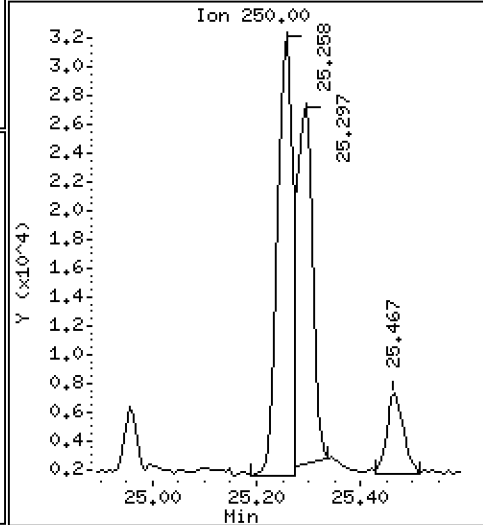
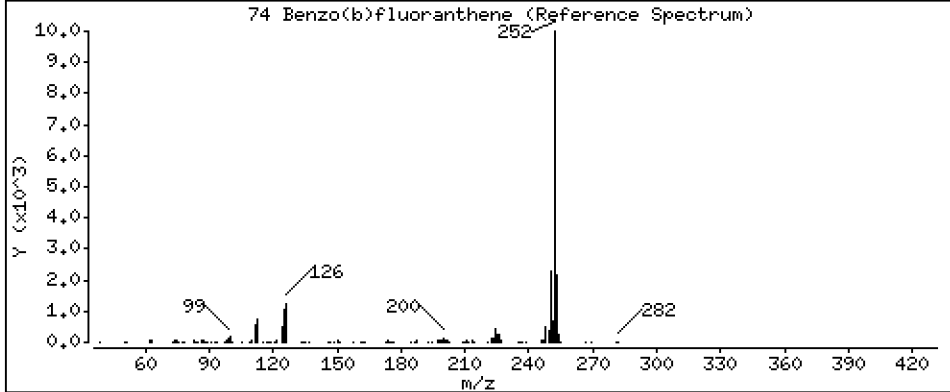
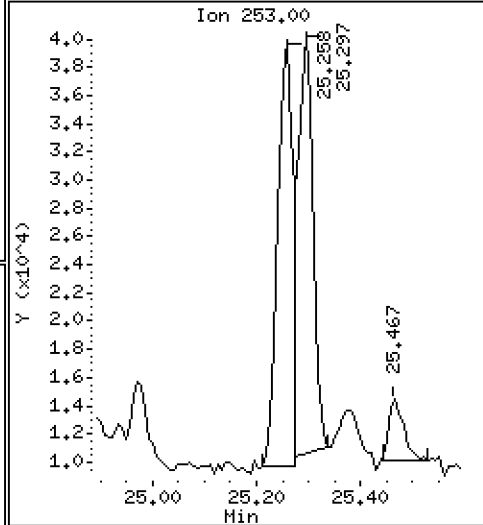
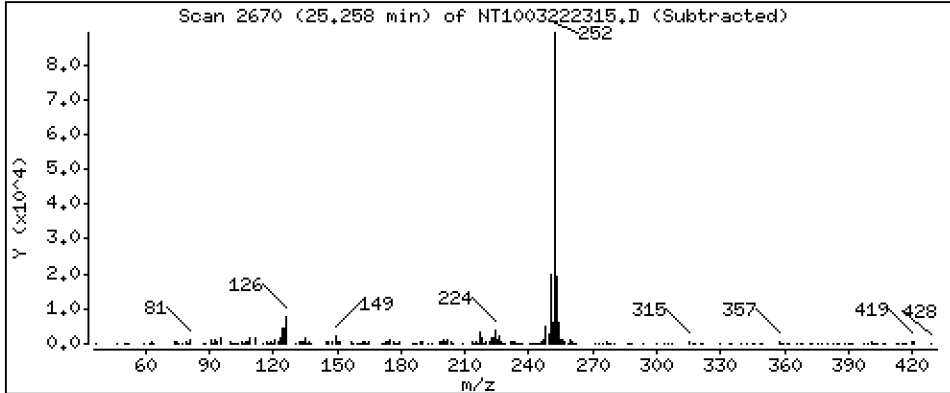
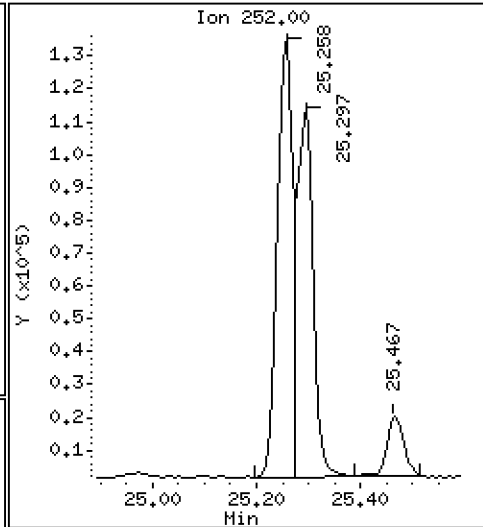
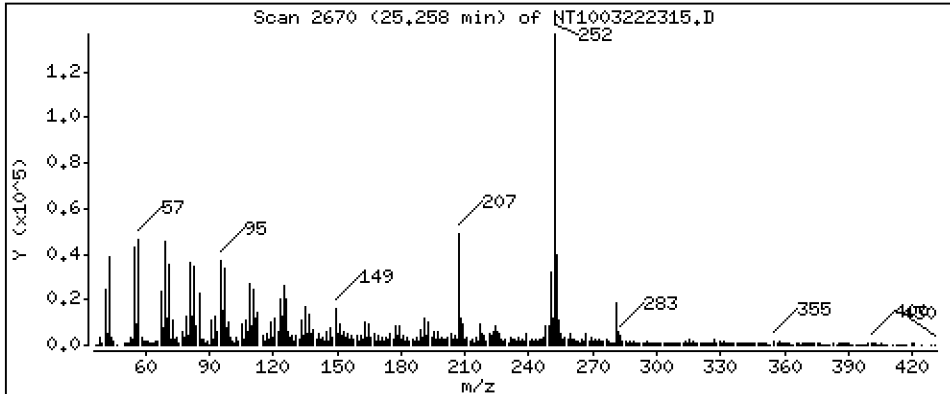
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 1,271 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

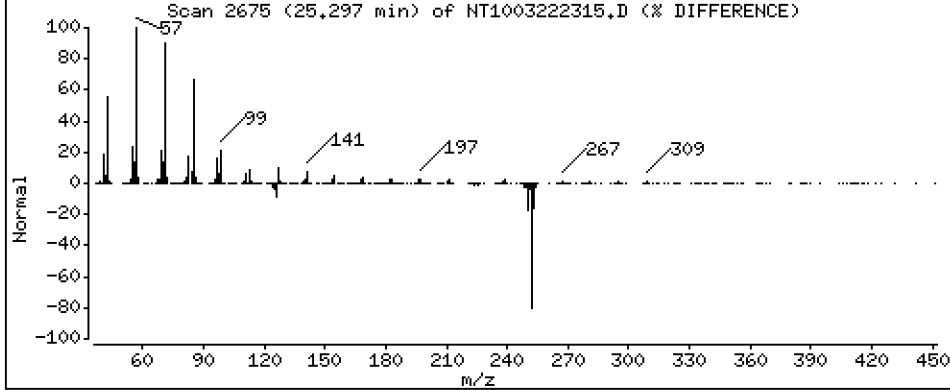
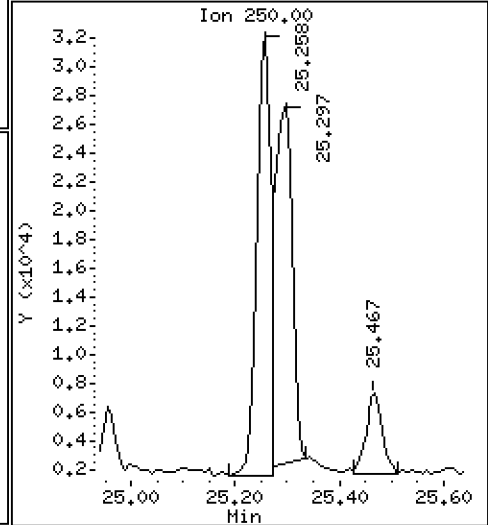
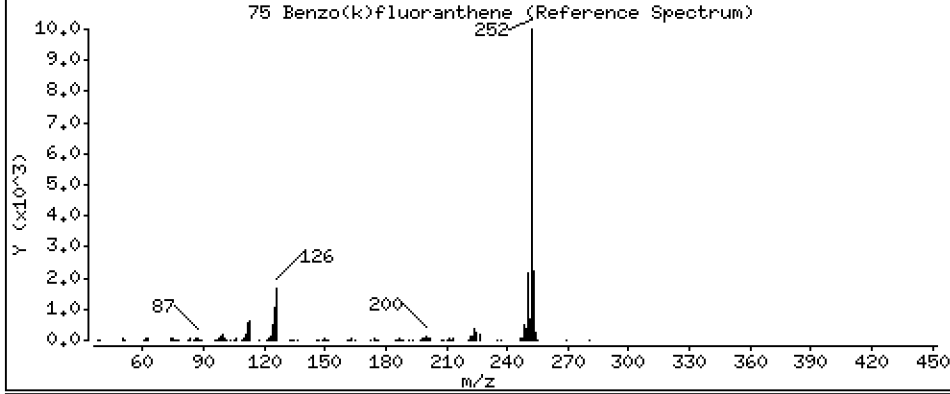
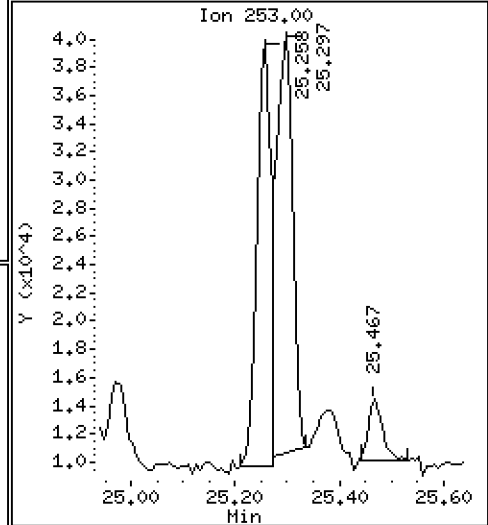
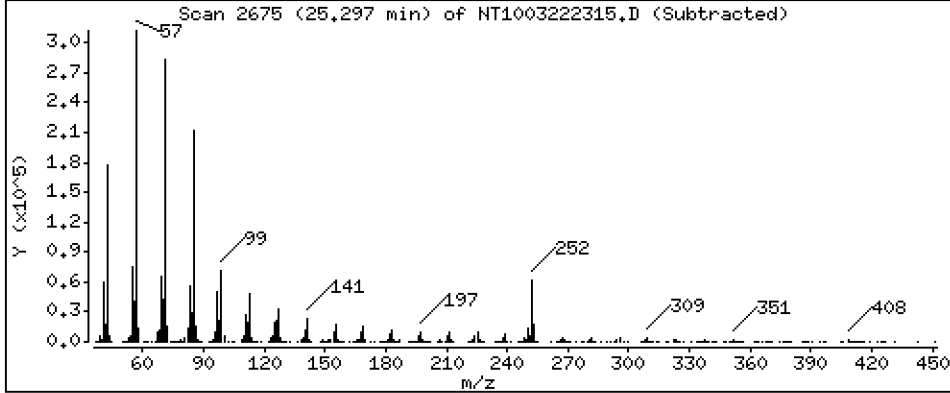
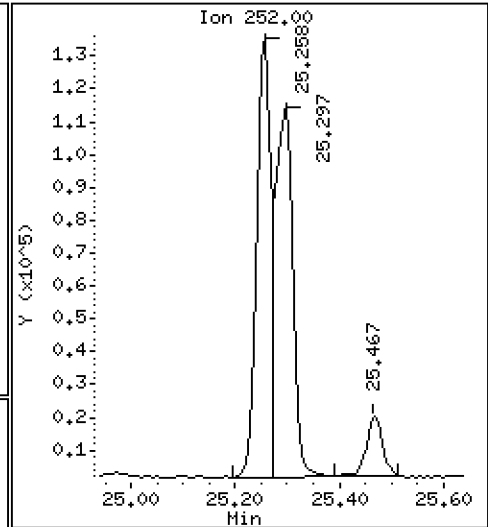
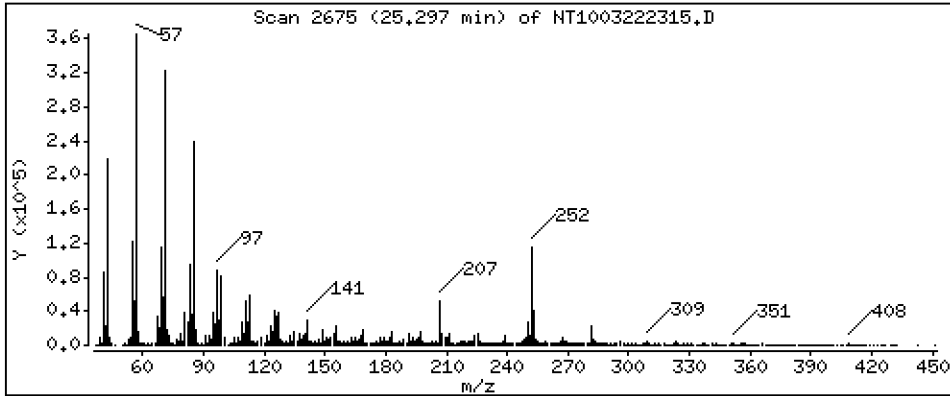
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 1,214 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

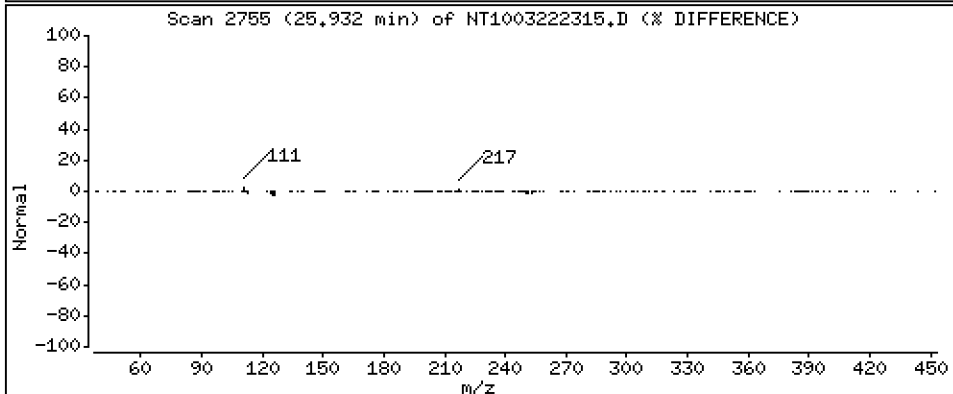
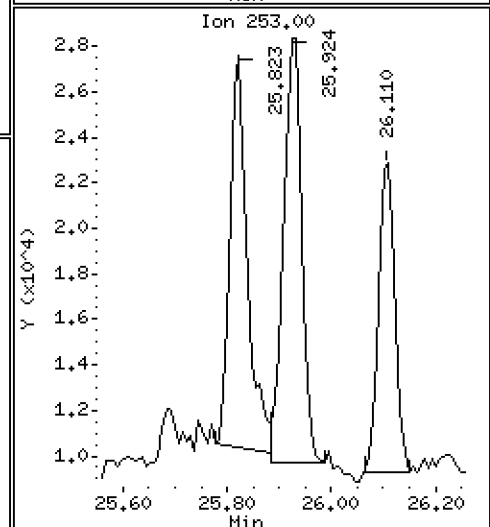
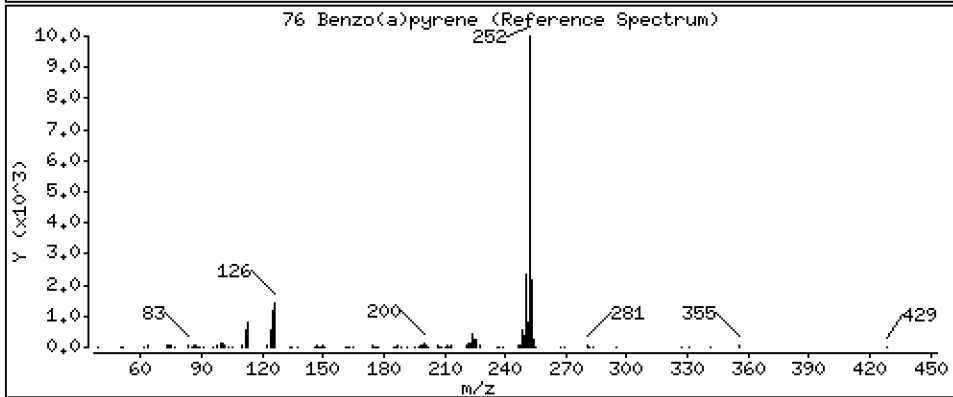
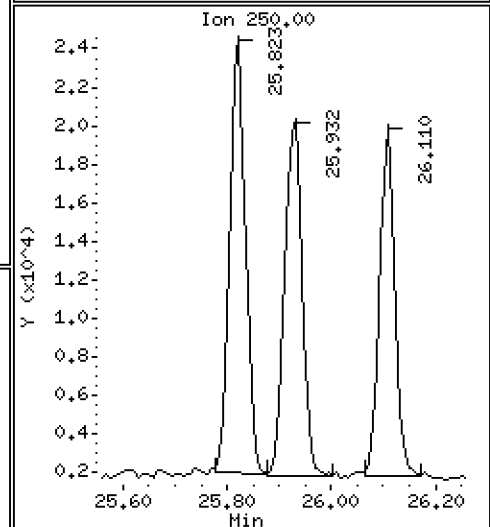
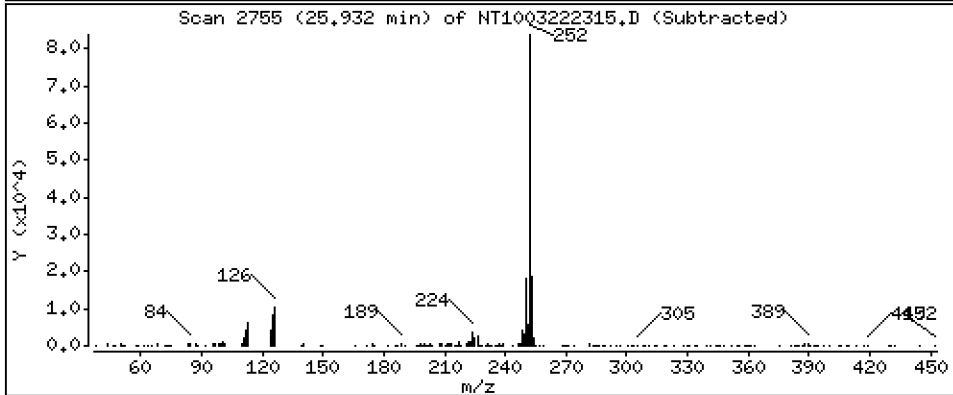
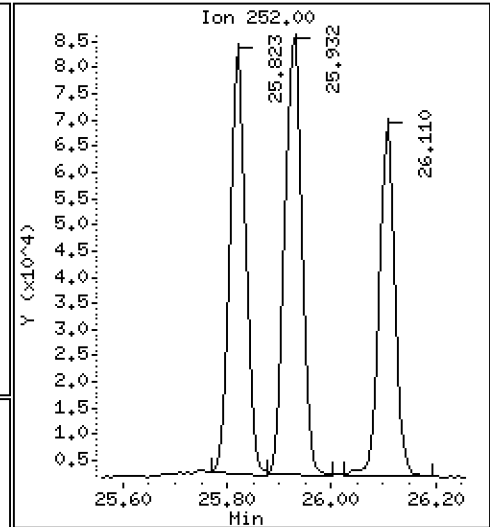
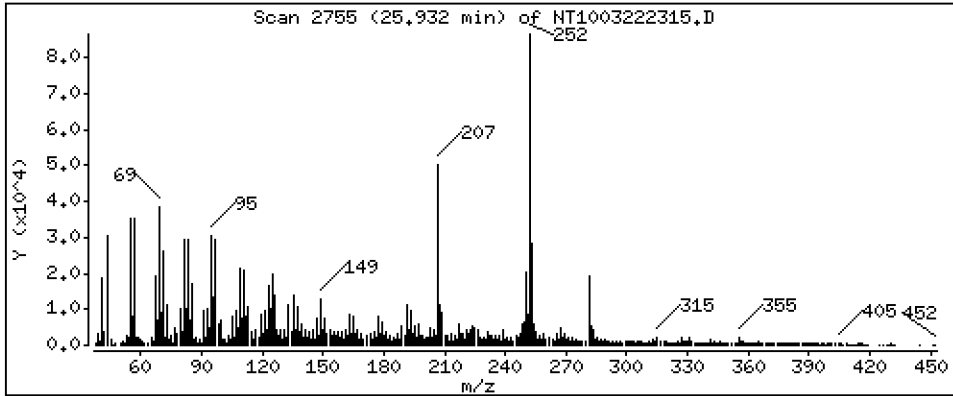
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,9979 ug/mL





Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

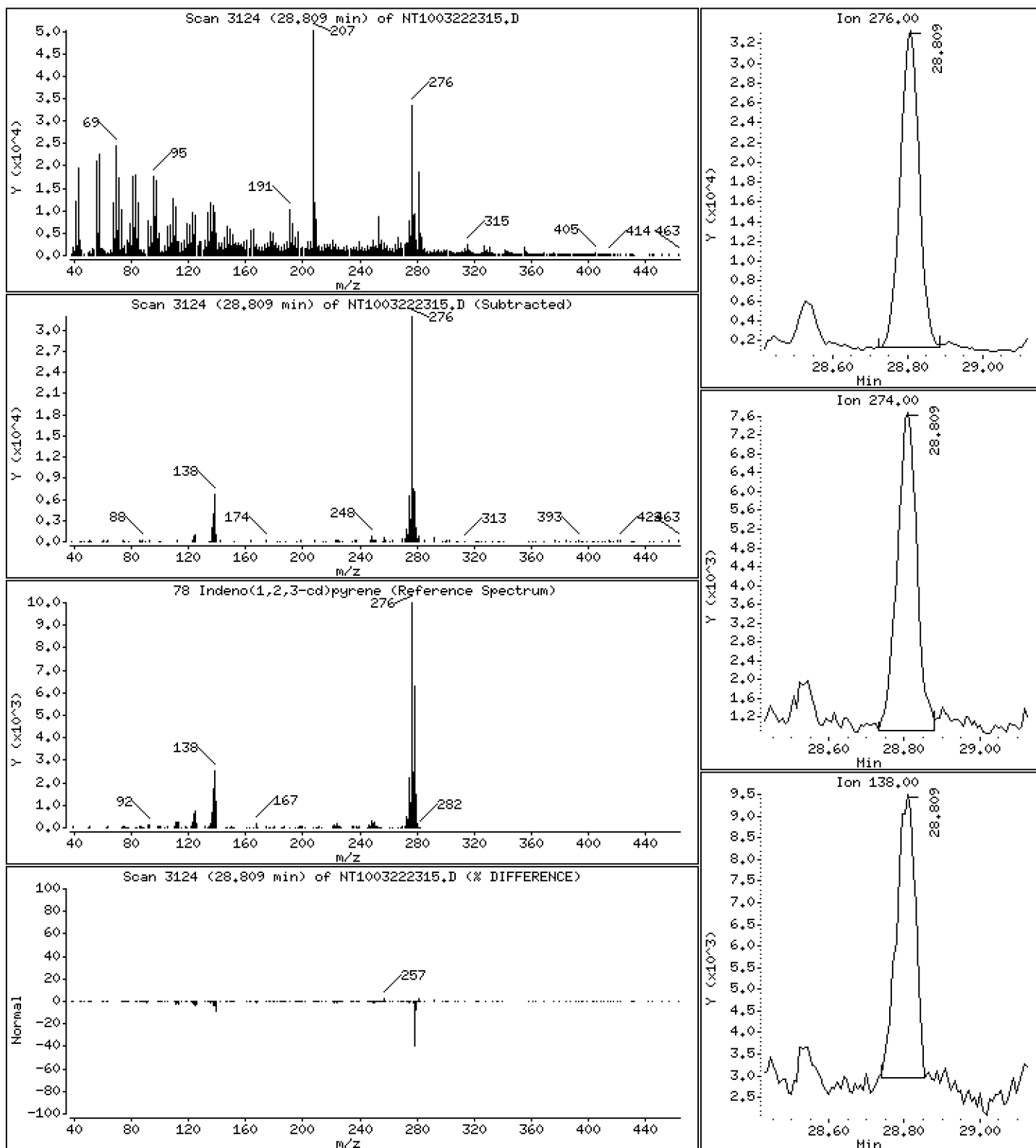
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,4685 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

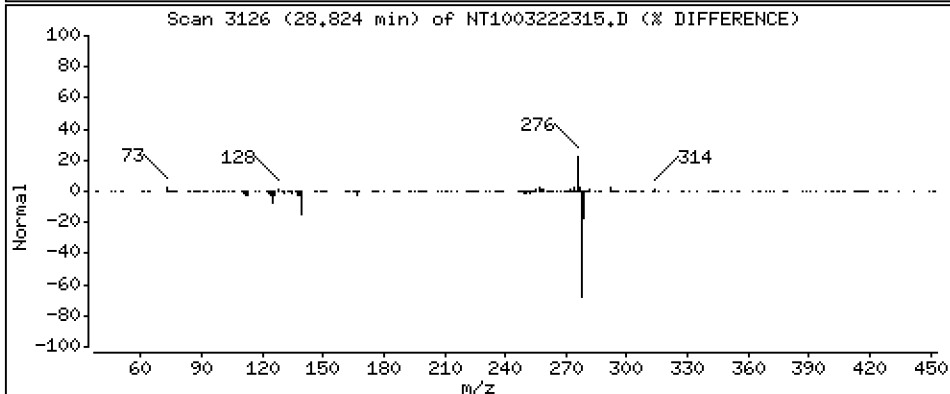
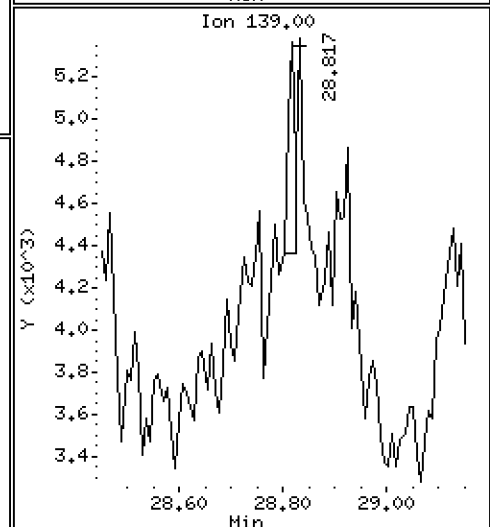
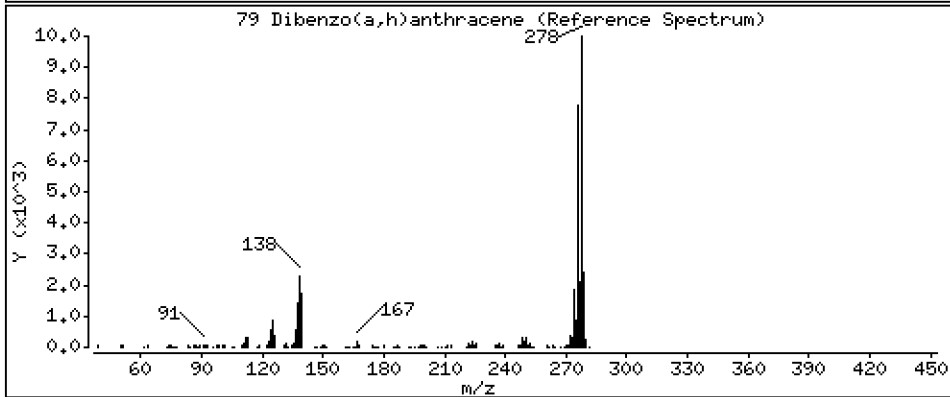
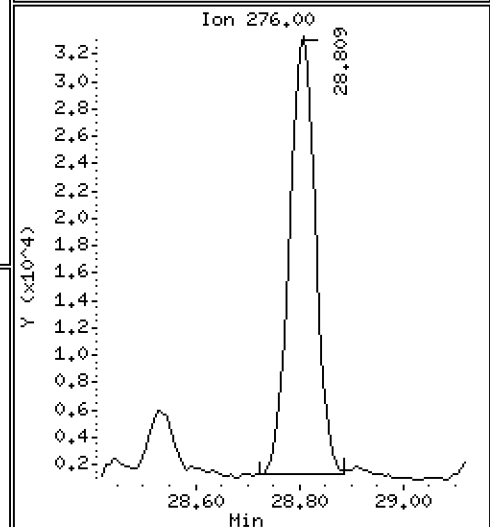
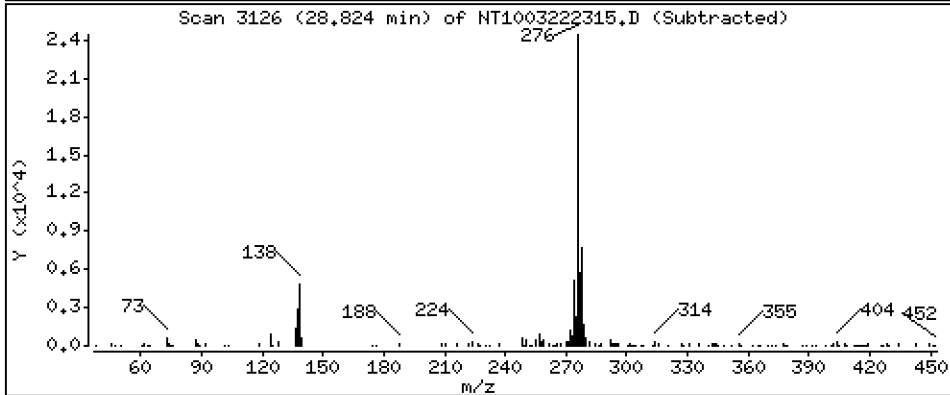
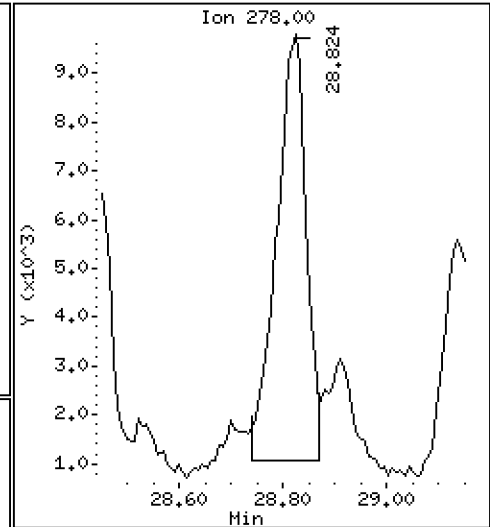
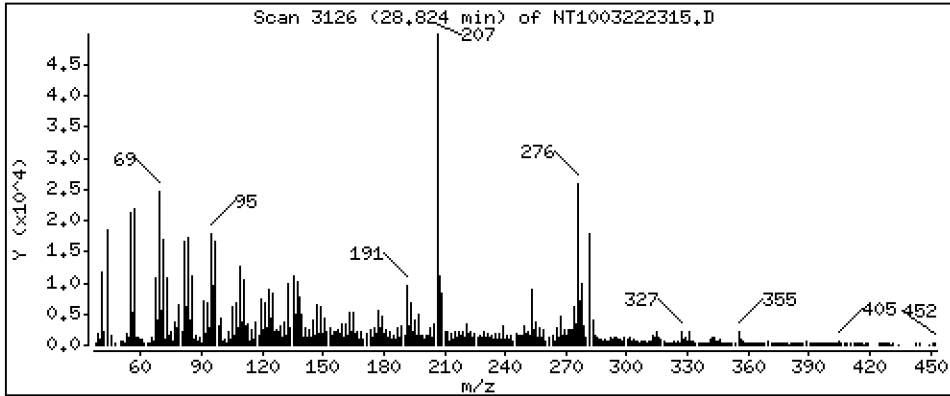
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1731 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

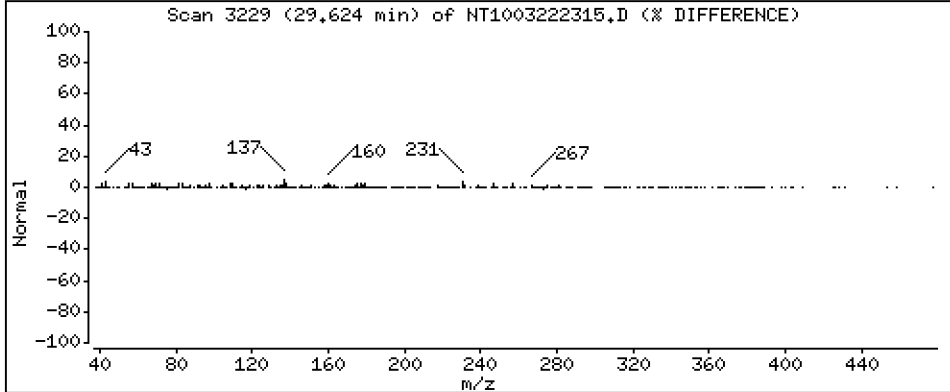
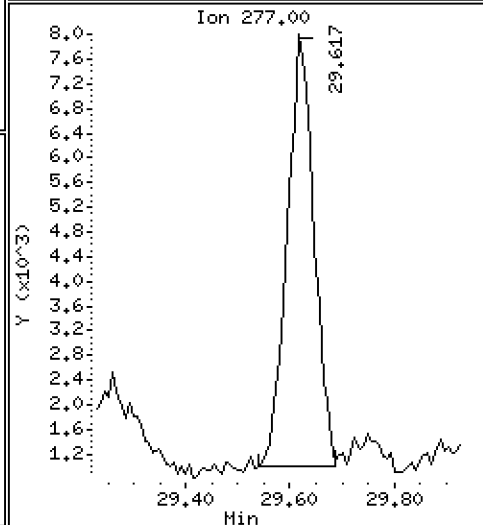
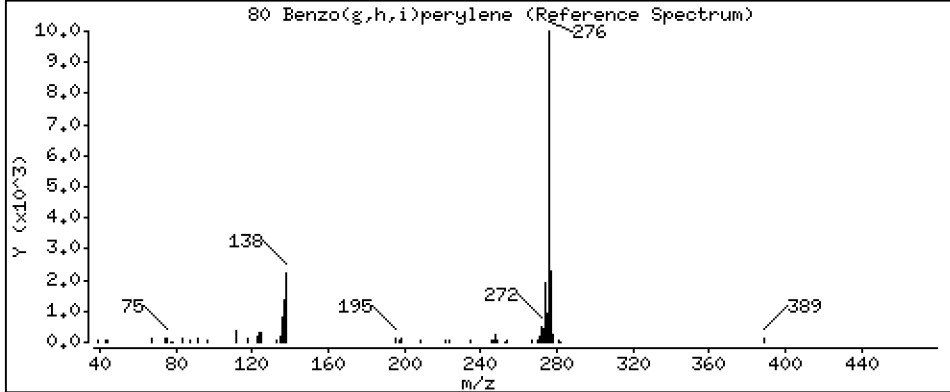
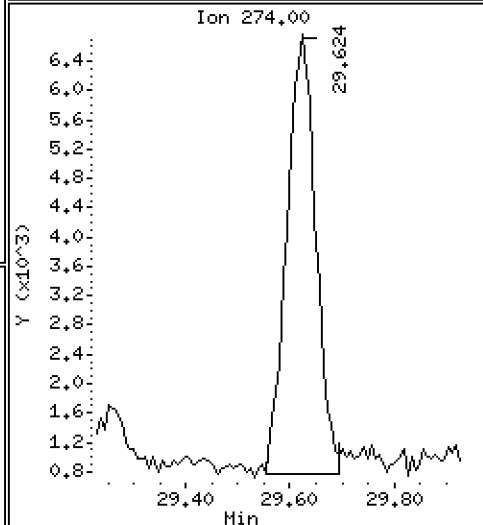
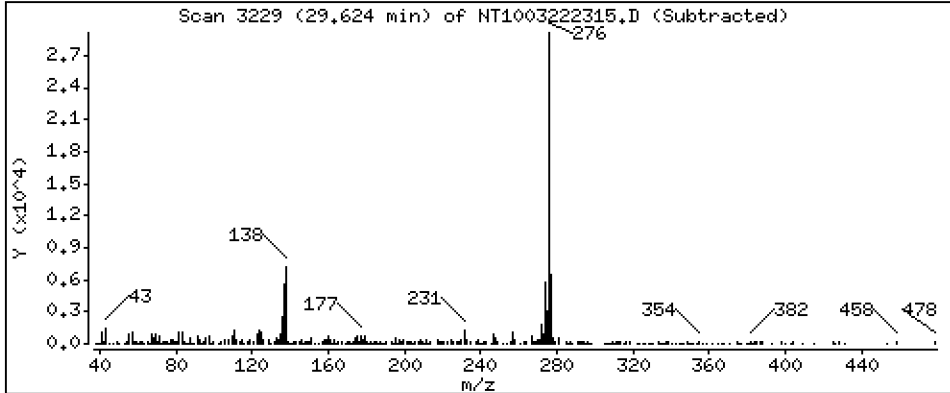
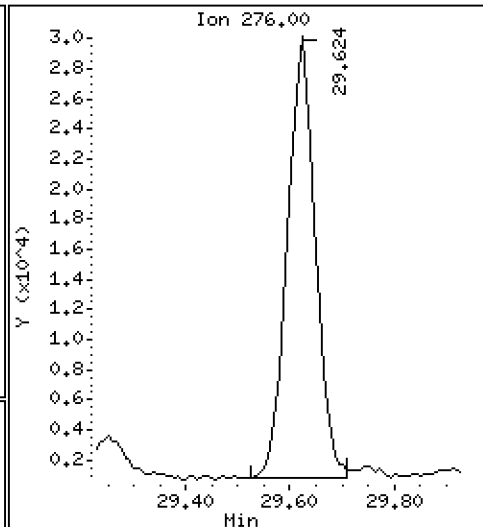
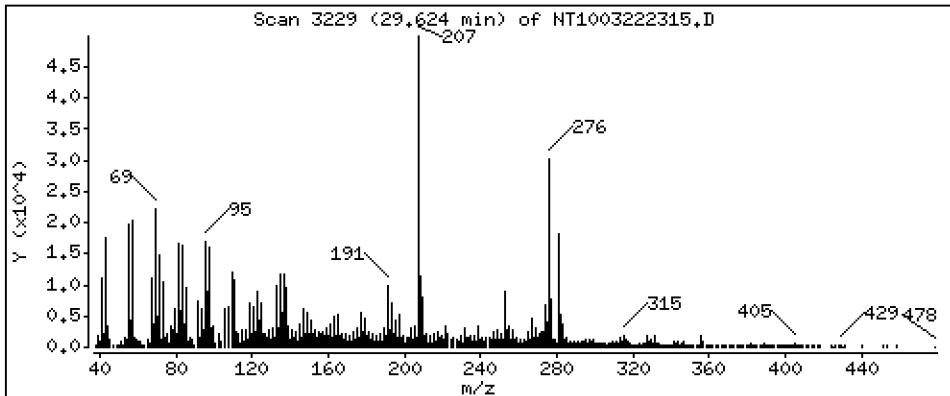
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,5219 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

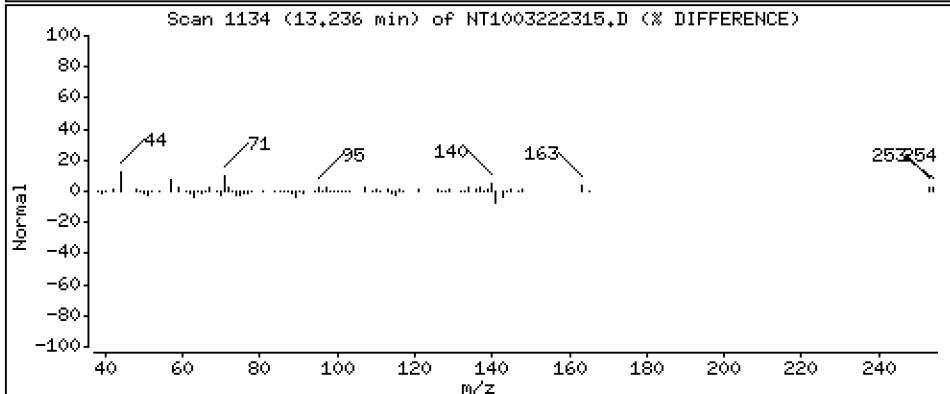
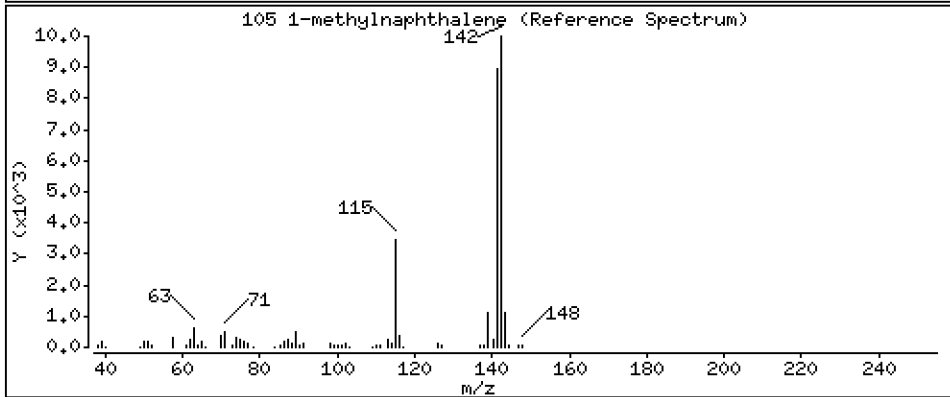
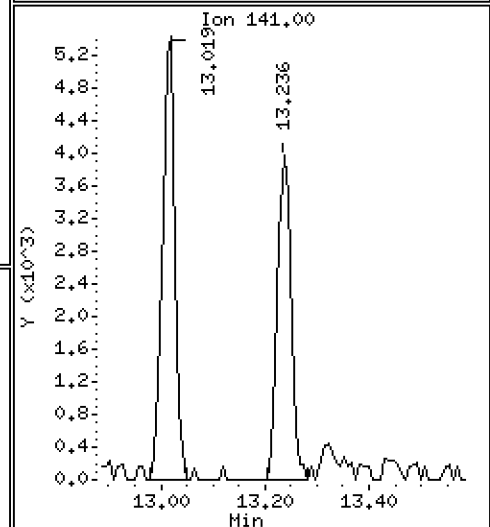
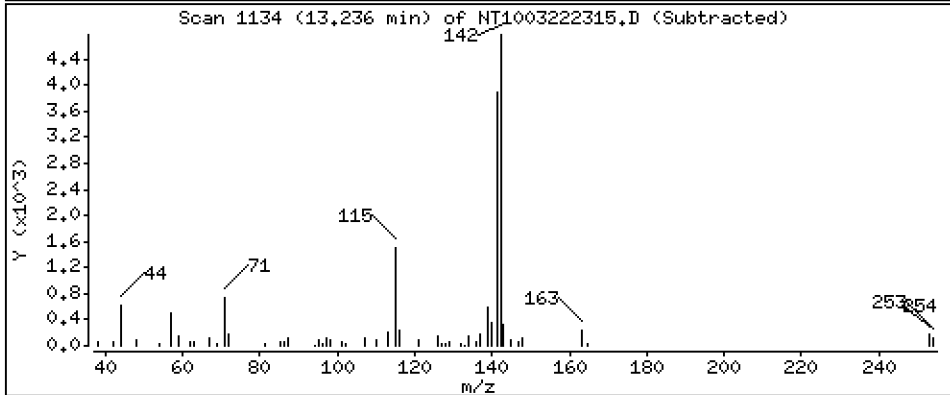
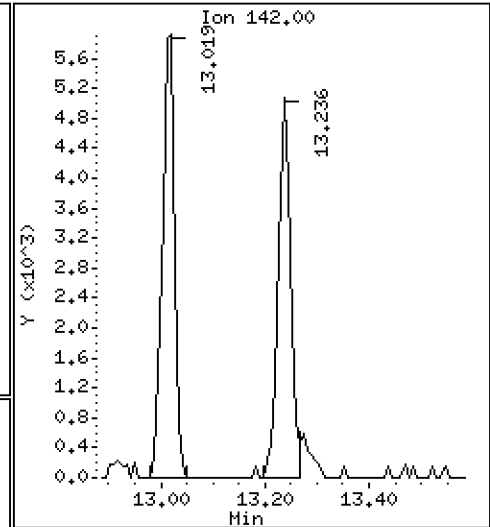
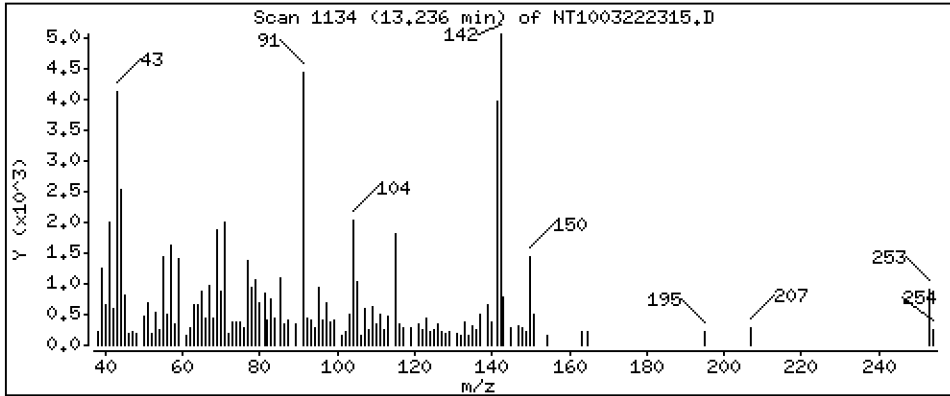
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,07470 ug/mL



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06RE1

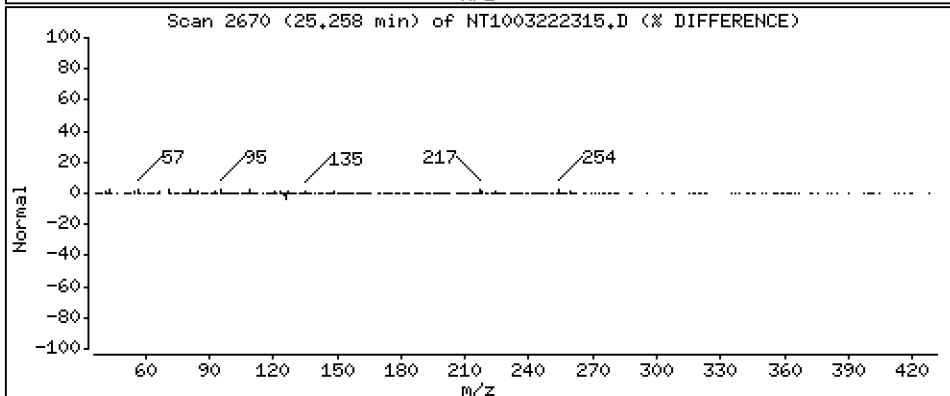
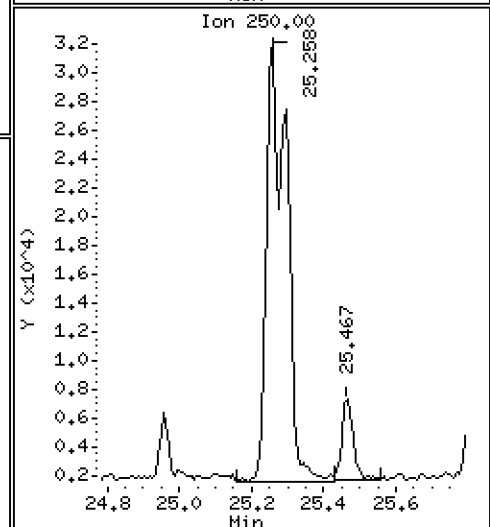
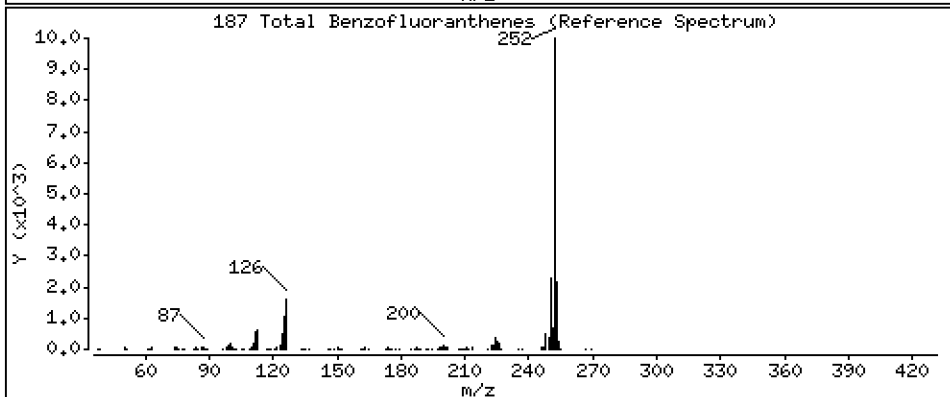
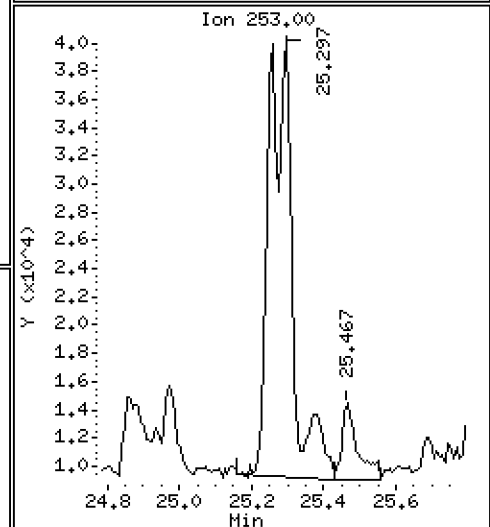
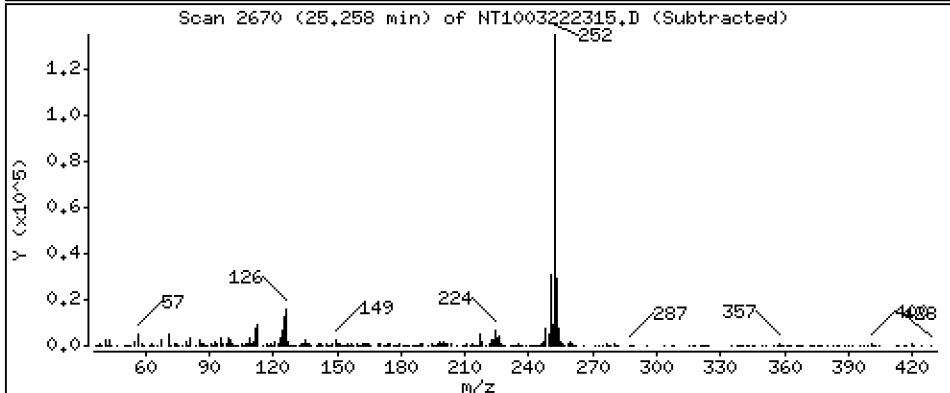
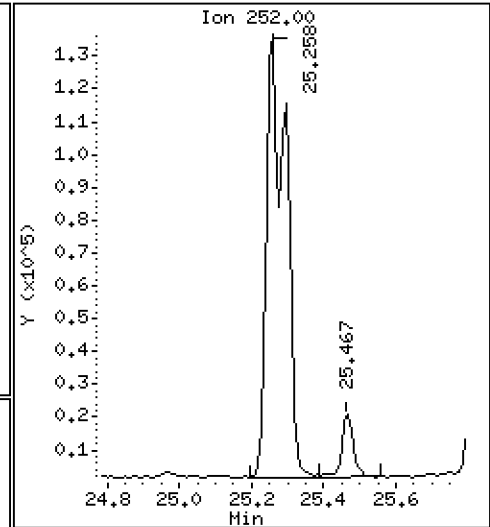
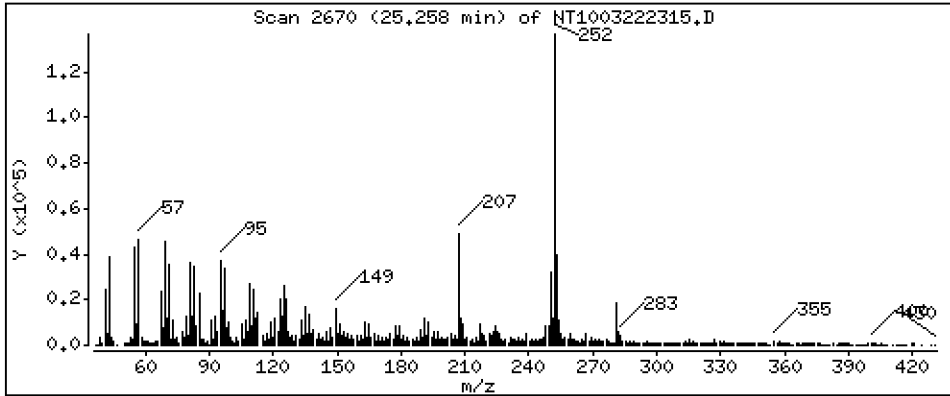
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 2,426 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222315.D  
 Lab Smp Id: 23A0179-06RE1  
 Inj Date : 23-MAR-2023 01:59  
 Operator : VTS  
 Smp Info : 23A0179-06RE1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 07:55 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 15  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------------|------------------|
|                                 |       |     |                        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| \$ 1 2-Fluorophenol             | 112   |     | 6.867                  | 6.851  | (0.756) | 285467   | 5.67497              | 5.675            |
| \$ 2 Phenol-d5                  | 99    |     | 8.451                  | 8.450  | (0.930) | 390506   | 5.91767              | 5.918            |
| 3 Phenol                        | 94    |     | 8.474                  | 8.473  | (0.933) | 218536   | 3.18687              | 3.187            |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.721                  | 8.721  | (0.960) | 353116   | 6.26640              | 6.266            |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | Compound Not Detected. |        |         |          |                      |                  |
| 6 2-Chlorophenol                | 128   |     | Compound Not Detected. |        |         |          |                      |                  |
| 7 1,3-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                      |                  |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.085                  | 9.084  | (1.000) | 166339   | 4.00000              |                  |
| 9 1,4-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                      |                  |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.442                  | 9.449  | (1.039) | 151312   | 3.73901              | 3.739            |
| 12 1,2-Dichlorobenzene          | 146   |     | Compound Not Detected. |        |         |          |                      |                  |
| 11 Benzyl alcohol               | 108   |     | 9.356                  | 9.356  | (1.030) | 6214     | 0.19306              | 0.1931           |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | Compound Not Detected. |        |         |          |                      |                  |
| 13 2-Methylphenol               | 108   |     | Compound Not Detected. |        |         |          |                      |                  |
| 17 Hexachloroethane             | 117   |     | Compound Not Detected. |        |         |          |                      |                  |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | Compound Not Detected. |        |         |          |                      |                  |
| 15 4-Methylphenol               | 108   |     | 9.861                  | 9.853  | (1.085) | 30697    | 0.58281              | 0.5828           |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.179                 | 10.187 | (0.880) | 245204   | 3.95154              | 3.952            |
| 19 Nitrobenzene                 | 77    |     | Compound Not Detected. |        |         |          |                      |                  |
| 20 Isophorone                   | 82    |     | Compound Not Detected. |        |         |          |                      |                  |
| 21 2-Nitrophenol                | 139   |     | Compound Not Detected. |        |         |          |                      |                  |
| 22 2,4-Dimethylphenol           | 107   |     | Compound Not Detected. |        |         |          |                      |                  |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | Compound Not Detected. |        |         |          |                      |                  |
| 24 Benzoic acid                 | 105   |     | 11.011                 | 11.104 | (0.952) | 18199    | 0.58536              | 0.5854           |
| 25 2,4-Dichlorophenol           | 162   |     | Compound Not Detected. |        |         |          |                      |                  |
| 26 1,2,4-Trichlorobenzene       | 180   |     | Compound Not Detected. |        |         |          |                      |                  |
| * 27 Naphthalene-d8             | 136   |     | 11.572                 | 11.572 | (1.000) | 614772   | 4.00000              |                  |
| 28 Naphthalene                  | 128   |     | 11.619                 | 11.611 | (1.004) | 14206    | 0.08723              | 0.08723          |
| 29 4-Chloroaniline              | 127   |     | Compound Not Detected. |        |         |          |                      |                  |
| 30 Hexachlorobutadiene          | 225   |     | Compound Not Detected. |        |         |          |                      |                  |
| 31 4-Chloro-3-methylphenol      | 107   |     | Compound Not Detected. |        |         |          |                      |                  |
| 32 2-Methylnaphthalene          | 142   |     | 13.019                 | 13.011 | (1.125) | 9556     | 0.08131              | 0.08131          |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                      |                  |

| Compounds                         | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
|                                   |       |     |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| \$ 36 2-Fluorobiphenyl            | 172   |     | 13.800 | 13.800 | (0.908) | 571827   | 4.24056              | 4.241            |
| 37 2-Chloronaphthalene            | 162   |     |        |        |         |          |                      |                  |
| 38 2-Nitroaniline                 | 65    |     |        |        |         |          |                      |                  |
| 39 Dimethylphthalate              | 163   |     |        |        |         |          |                      |                  |
| 40 Acenaphthylene                 | 152   |     | 14.884 | 14.884 | (0.979) | 15781    | 0.09275              | 0.09275          |
| 41 2,6-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| * 42 Acenaphthene-d10             | 164   |     | 15.201 | 15.193 | (1.000) | 340891   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 44 Acenaphthene                   | 153   |     | 15.263 | 15.263 | (1.004) | 6869     | 0.06535              | 0.06535          |
| 45 2,4-Dinitrophenol              | 184   |     |        |        |         |          |                      |                  |
| 46 Dibenzofuran                   | 168   |     | 15.595 | 15.595 | (1.026) | 11565    | 0.07461              | 0.07461          |
| 47 4-Nitrophenol                  | 109   |     |        |        |         |          |                      |                  |
| 48 2,4-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| 50 Diethylphthalate               | 149   |     | 16.167 | 16.175 | (1.064) | 13232    | 0.12178              | 0.1218           |
| 49 Fluorene                       | 166   |     | 16.314 | 16.306 | (1.073) | 9643     | 0.07908              | 0.07908          |
| 51 4-Chlorophenyl-phenylether     | 204   |     |        |        |         |          |                      |                  |
| 52 4-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     |        |        |         |          |                      |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     |        |        |         |          |                      |                  |
| \$ 55 2,4,6-Tribromophenol        | 330   |     | 16.854 | 16.846 | (1.109) | 146602   | 9.25265              | 9.253            |
| 56 4-Bromophenyl-phenylether      | 248   |     |        |        |         |          |                      |                  |
| 57 Hexachlorobenzene              | 284   |     |        |        |         |          |                      |                  |
| 58 Pentachlorophenol              | 266   |     |        |        |         |          |                      |                  |
| * 59 Phenanthrene-d10             | 188   |     | 18.261 | 18.253 | (1.000) | 651012   | 4.00000              |                  |
| 60 Phenanthrene                   | 178   |     | 18.307 | 18.299 | (1.003) | 106997   | 0.60274              | 0.6027           |
| 61 Anthracene                     | 178   |     | 18.400 | 18.392 | (1.008) | 43355    | 0.25460              | 0.2546           |
| 62 Carbazole                      | 167   |     | 18.733 | 18.725 | (1.026) | 16904    | 0.11078              | 0.1108           |
| 63 Di-n-butylphthalate            | 149   |     | 19.553 | 19.545 | (1.071) | 8289     | 0.04040              | 0.04040          |
| 64 Fluoranthene                   | 202   |     | 20.744 | 20.705 | (0.888) | 335669   | 1.40379              | 1.404            |
| 65 Pyrene                         | 202   |     | 21.146 | 21.131 | (0.905) | 395714   | 1.61325              | 1.613            |
| \$ 66 Terphenyl-d14               | 244   |     | 21.433 | 21.425 | (0.917) | 784360   | 4.25801              | 4.258            |
| 67 Butylbenzylphthalate           | 149   |     | 22.377 | 22.369 | (0.958) | 10462    | 0.12151              | 0.1215           |
| 68 Benzo(a)anthracene             | 228   |     | 23.330 | 23.314 | (0.999) | 208019   | 0.99035              | 0.9903           |
| * 69 Chrysene-d12                 | 240   |     | 23.361 | 23.345 | (1.000) | 595086   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     |        |        |         |          |                      |                  |
| 71 Chrysene                       | 228   |     | 23.400 | 23.392 | (1.002) | 231544   | 1.12832              | 1.128            |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 23.415 | 23.407 | (0.958) | 134903   | 0.94130              | 0.9413           |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 24.429 | 24.413 | (1.000) | 979419   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149   |     |        |        |         |          |                      |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 25.258 | 25.242 | (0.969) | 274517   | 1.27141              | 1.271            |
| 75 Benzo(k)fluoranthene           | 252   |     | 25.296 | 25.288 | (0.971) | 266267   | 1.21447              | 1.214            |
| 76 Benzo(a)pyrene                 | 252   |     | 25.931 | 25.908 | (0.995) | 192633   | 0.99789              | 0.9979           |
| * 77 Perylene-d12                 | 264   |     | 26.055 | 26.024 | (1.000) | 666096   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 28.808 | 28.769 | (1.106) | 115072   | 0.46855              | 0.4685           |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 28.824 | 28.800 | (1.106) | 35295    | 0.17310              | 0.1731           |
| 80 Benzo(g,h,i)perylene           | 276   |     | 29.624 | 29.577 | (1.137) | 110931   | 0.52193              | 0.5219           |
| 90 N-Nitrosodimethylamine         | 74    |     |        |        |         |          |                      |                  |
| 91 Aniline                        | 93    |     |        |        |         |          |                      |                  |
| 93 Benzidine                      | 184   |     |        |        |         |          |                      |                  |
| 103 Pyridine                      | 79    |     |        |        |         |          |                      |                  |
| 105 1-methylnaphthalene           | 142   |     | 13.235 | 13.235 | (1.144) | 8044     | 0.07470              | 0.07470          |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     |        |        |         |          |                      |                  |

| Compounds                     | QUANT SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |  |
|-------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|--|
|                               |           |                        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |  |
| 187 Total Benzofluoranthenes  | 252       | 25.258                 | 25.288 | (0.969) | 505656   | 2.42554              | 2.426            |  |
| 120 2,3,4,6-Tetrachlorophenol | 232       | Compound Not Detected. |        |         |          |                      |                  |  |



ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 22-MAR-2023  
 Lab File ID: NT1003222315.D Calibration Time: 17:42  
 Lab Smp Id: 23A0179-06RE1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 122478   | 61239      | 244956  | 166339 | 35.81 |
| 27 Naphthalene-d8     | 459261   | 229631     | 918522  | 614772 | 33.86 |
| 42 Acenaphthene-d10   | 264106   | 132053     | 528212  | 340891 | 29.07 |
| 59 Phenanthrene-d10   | 503255   | 251628     | 1006510 | 651012 | 29.36 |
| 69 Chrysene-d12       | 437735   | 218868     | 875470  | 595086 | 35.95 |
| 134 Di-n-octylphthala | 700191   | 350096     | 1400382 | 979419 | 39.88 |
| 77 Perylene-d12       | 499049   | 249525     | 998098  | 666096 | 33.47 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.08     | 8.58     | 9.58  | 9.09   | 0.00  |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.57  | 0.00  |
| 42 Acenaphthene-d10   | 15.19    | 14.69    | 15.69 | 15.20  | 0.05  |
| 59 Phenanthrene-d10   | 18.25    | 17.75    | 18.75 | 18.26  | 0.04  |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.36  | 0.07  |
| 134 Di-n-octylphthala | 24.41    | 23.91    | 24.91 | 24.43  | 0.06  |
| 77 Perylene-d12       | 26.02    | 25.52    | 26.52 | 26.06  | 0.12  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222315.D

Lab ID: 23A0179-06RE1  
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 01:59

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND     |
|-------|---------|---------|--------------|
| 0.952 | 0.960   | -0.0081 | Benzoic acid |

RRT check based on Ccal File: NT1003222302.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*



Form I  
ORGANIC ANALYSIS DATA SHEET  
EPA 8270E  
Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-07RE1 A

SDG: 23A0179

Sampled: 01/10/23 10:10

Prepared: 03/17/23 11:16

File ID: NT1003222316.D

% Solids: 74.59

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 02:37

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 13.46 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| CAS NO.  | COMPOUND                    | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|-----------------------------|----------|----------------------|---|------|------|
| 108-95-2 | Phenol                      | 1        | 38.5                 |   | 4.4  | 19.9 |
| 106-44-5 | 4-Methylphenol              | 1        | 19.9                 | U | 7.4  | 19.9 |
| 91-20-3  | Naphthalene                 | 1        | 5.7                  | J | 4.2  | 19.9 |
| 91-57-6  | 2-Methylnaphthalene         | 1        | 6.5                  | J | 4.5  | 19.9 |
| 208-96-8 | Acenaphthylene              | 1        | 19.9                 | U | 6.2  | 19.9 |
| 131-11-3 | Dimethylphthalate           | 1        | 19.9                 | U | 4.4  | 19.9 |
| 83-32-9  | Acenaphthene                | 1        | 19.9                 | U | 5.2  | 19.9 |
| 132-64-9 | Dibenzofuran                | 1        | 19.9                 | U | 14.1 | 19.9 |
| 86-73-7  | Fluorene                    | 1        | 19.9                 | U | 14.5 | 19.9 |
| 85-01-8  | Phenanthrene                | 1        | 23.4                 |   | 8.7  | 19.9 |
| 120-12-7 | Anthracene                  | 1        | 13.4                 | J | 7.2  | 19.9 |
| 206-44-0 | Fluoranthene                | 1        | 37.5                 |   | 6.1  | 19.9 |
| 129-00-0 | Pyrene                      | 1        | 61.6                 |   | 5.7  | 19.9 |
| 85-68-7  | Butylbenzylphthalate        | 1        | 19.9                 | U | 9.4  | 19.9 |
| 56-55-3  | Benzo(a)anthracene          | 1        | 28.2                 |   | 5.9  | 19.9 |
| 218-01-9 | Chrysene                    | 1        | 31.8                 |   | 6.0  | 19.9 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate  | 1        | 16.4                 | J | 5.4  | 49.8 |
|          | Benzo(a)fluoranthene, Total | 1        | 69.9                 |   | 10.0 | 39.8 |
| 50-32-8  | Benzo(a)pyrene              | 1        | 30.8                 |   | 4.2  | 19.9 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene      | 1        | 16.3                 | J | 14.6 | 19.9 |
| 53-70-3  | Dibenzo(a,h)anthracene      | 1        | 19.9                 | U | 17.2 | 19.9 |
| 191-24-2 | Benzo(g,h,i)perylene        | 1        | 19.3                 | J | 13.5 | 19.9 |

| SURROGATES             | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol         | 747.03                | 595                   | 79.6  | 27 - 120  |   |
| Phenol-d5              | 747.03                | 607                   | 81.3  | 29 - 120  |   |
| 2-Chlorophenol-d4      | 747.03                | 651                   | 87.2  | 31 - 120  |   |
| 1,2-Dichlorobenzene-d4 | 498.02                | 395                   | 79.4  | 32 - 120  |   |
| Nitrobenzene-d5        | 498.02                | 409                   | 82.2  | 30 - 120  |   |
| 2-Fluorobiphenyl       | 498.02                | 432                   | 86.8  | 35 - 120  |   |



**Form I**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8270E**  
**Semivolatiles (20ug/kg - 0.2ug/L SepF)**

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-07RE1 A

SDG: 23A0179

Sampled: 01/10/23 10:10

Prepared: 03/17/23 11:16

File ID: NT1003222316.D

% Solids: 74.59

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 02:37

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 13.46 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| SURROGATES           | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------|-----------------------|-----------------------|-------|-----------|---|
| 2,4,6-Tribromophenol | 747.03                | 906                   | 121   | 24 - 134  | Q |
| p-Terphenyl-d14      | 498.02                | 442                   | 88.7  | 37 - 120  |   |

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222316.D

Date: 23-MAR-2023 02:37

Client ID:

Sample Info: 23A0179-07RE1

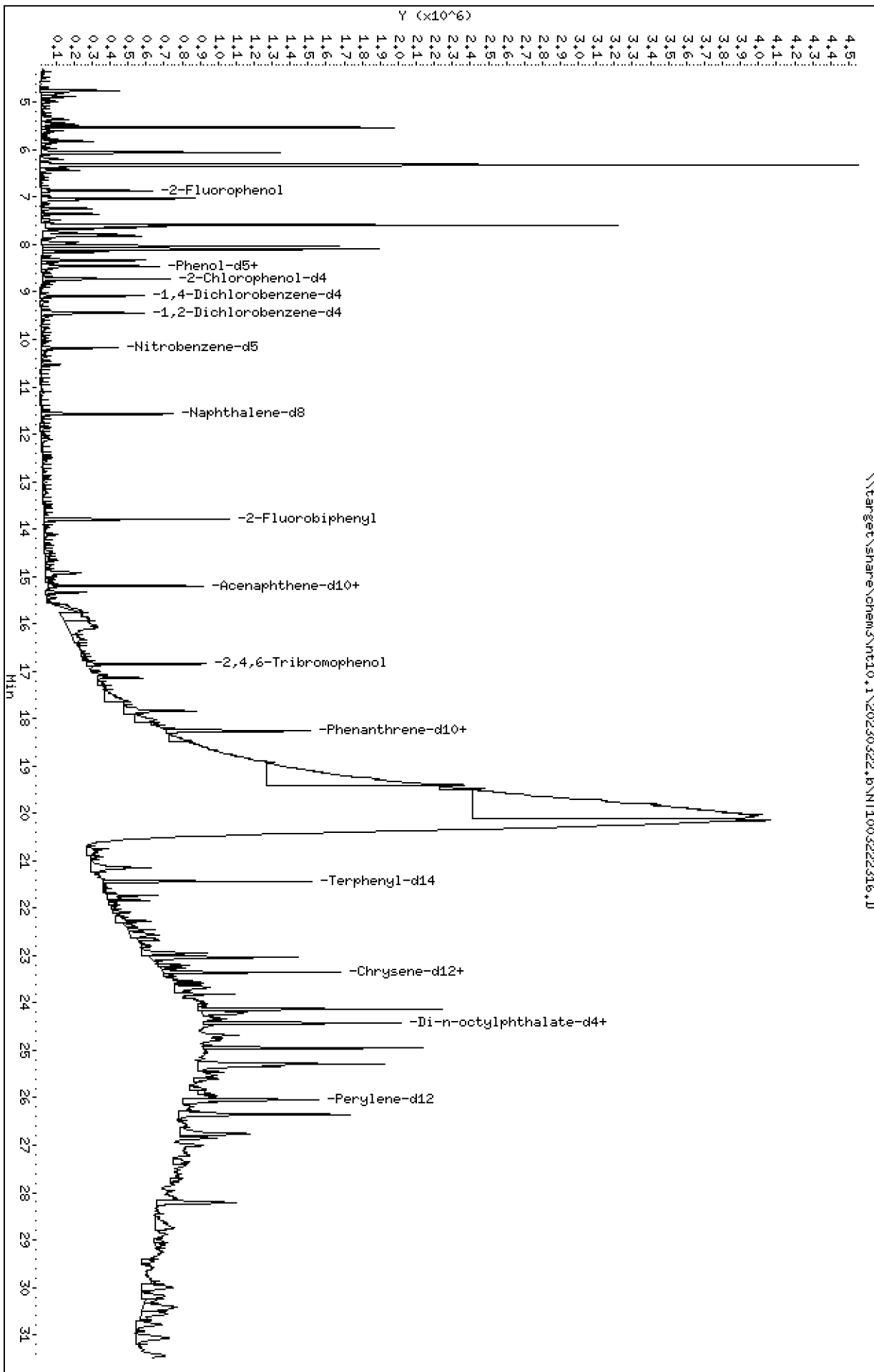
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\NT1003222316.D



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

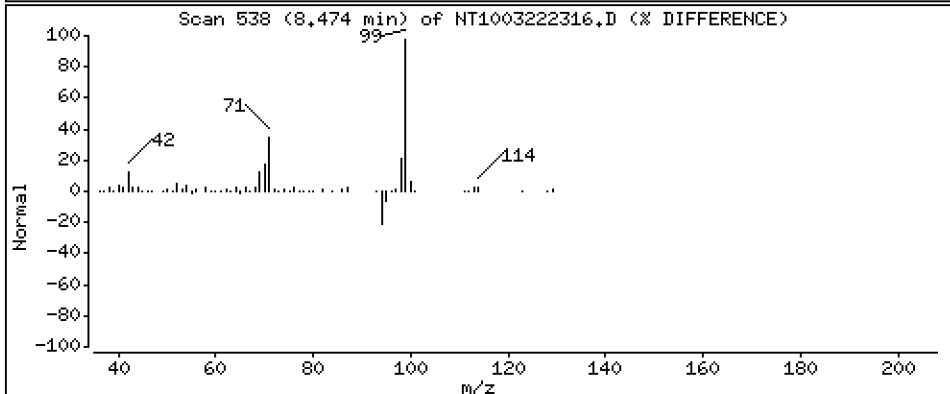
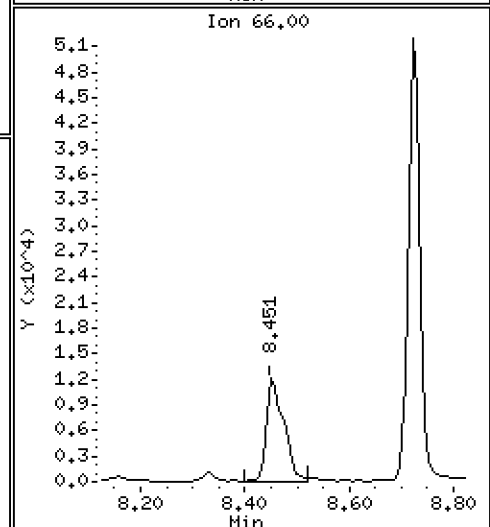
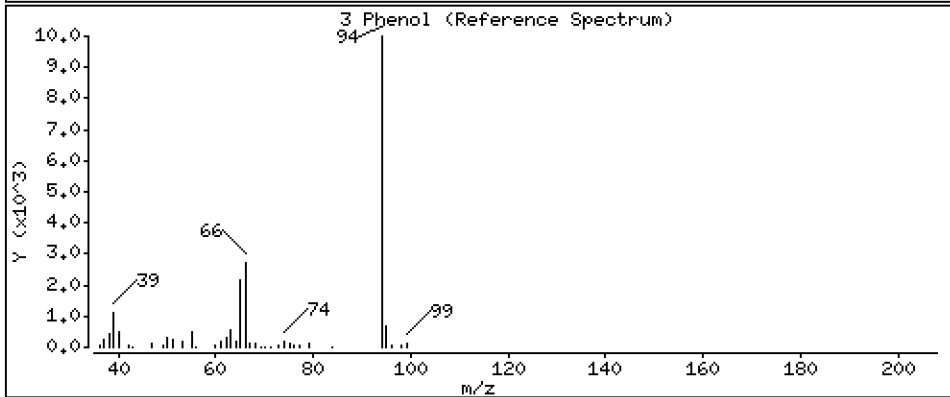
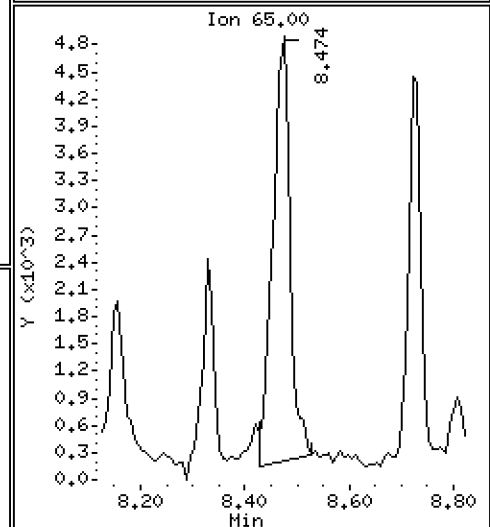
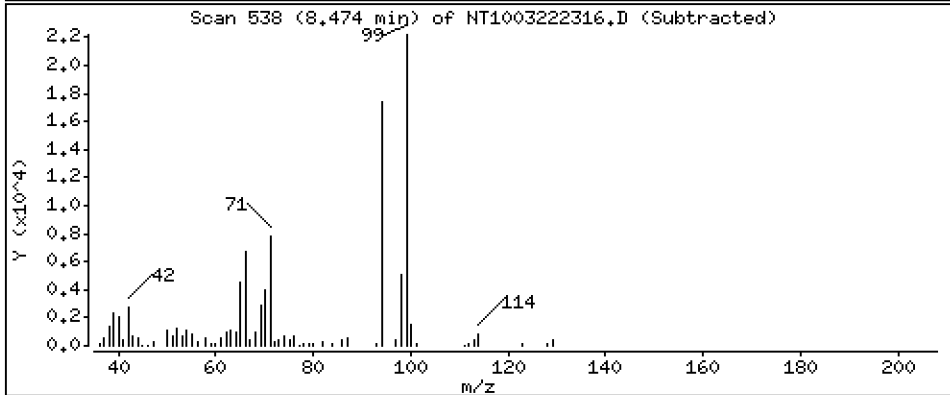
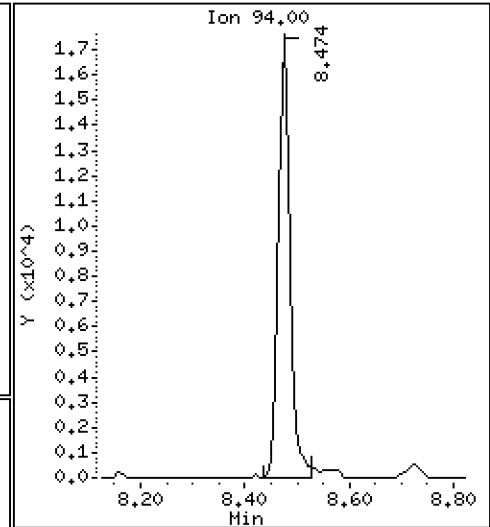
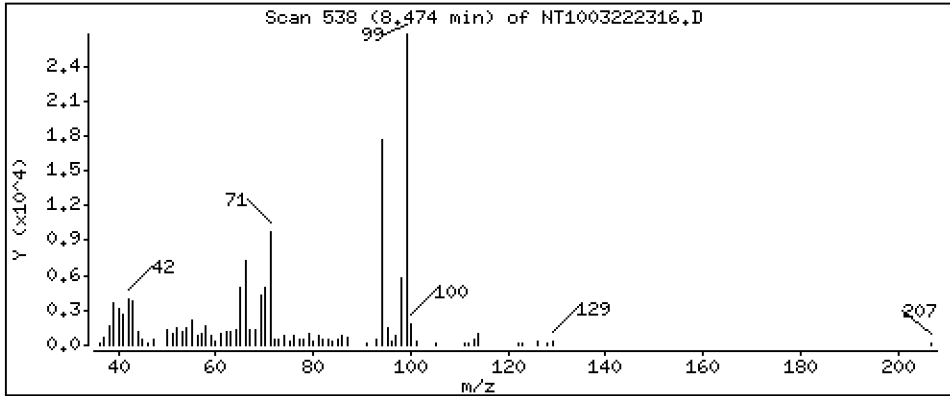
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,3867 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

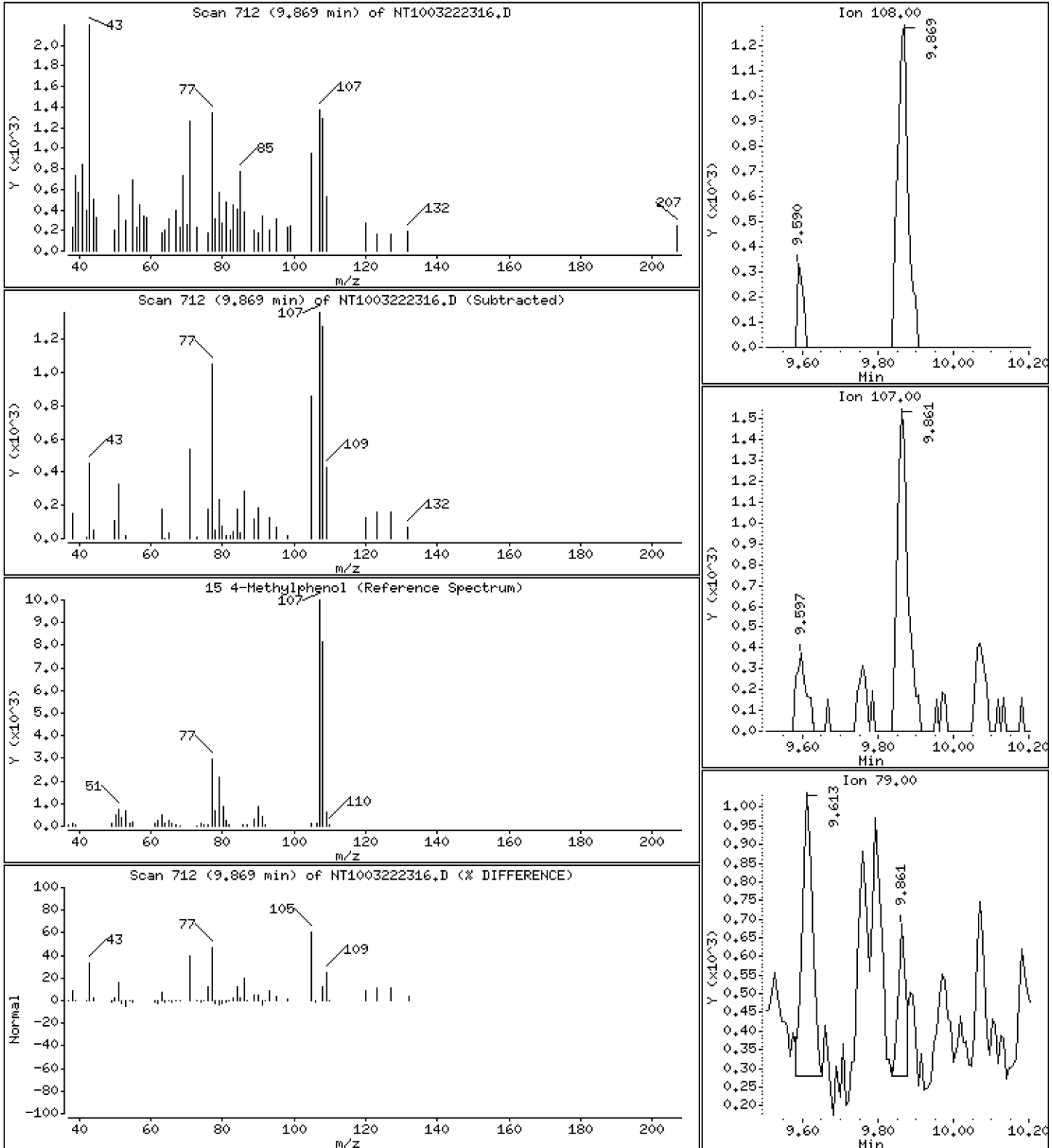
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.04870 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

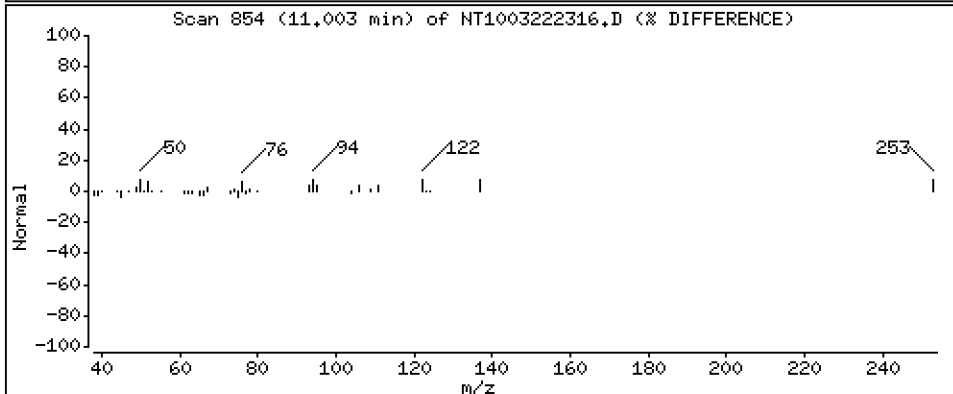
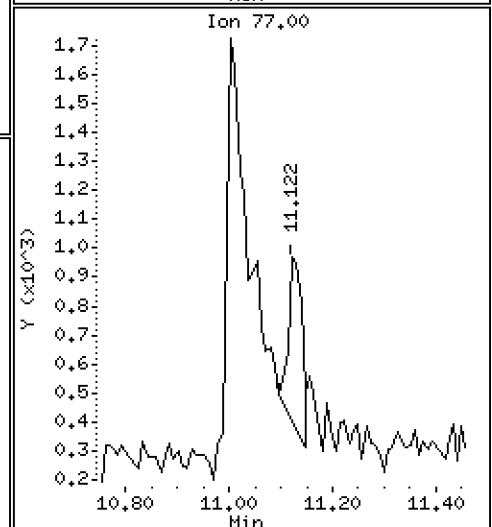
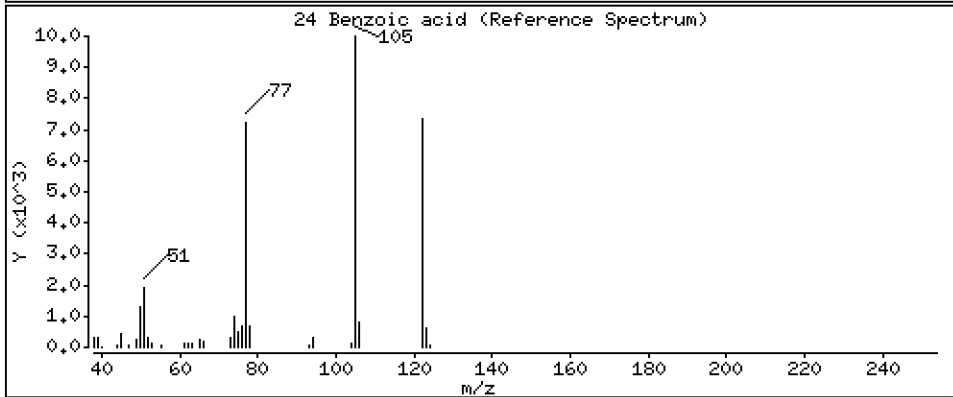
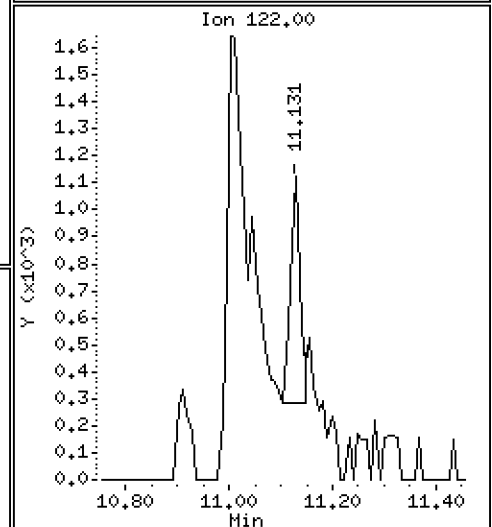
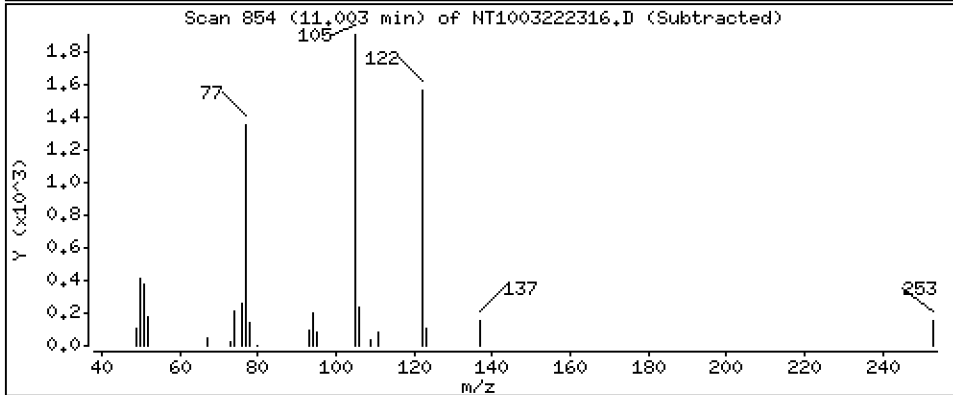
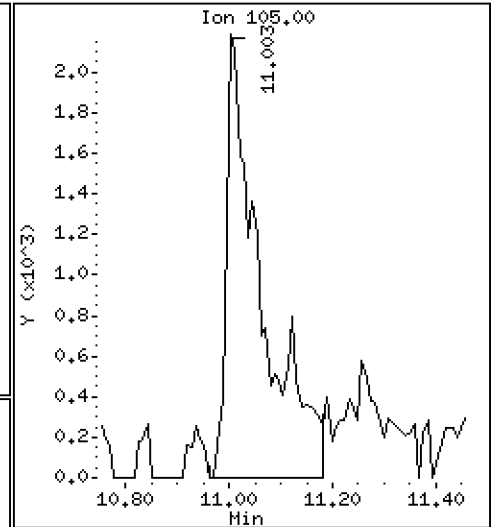
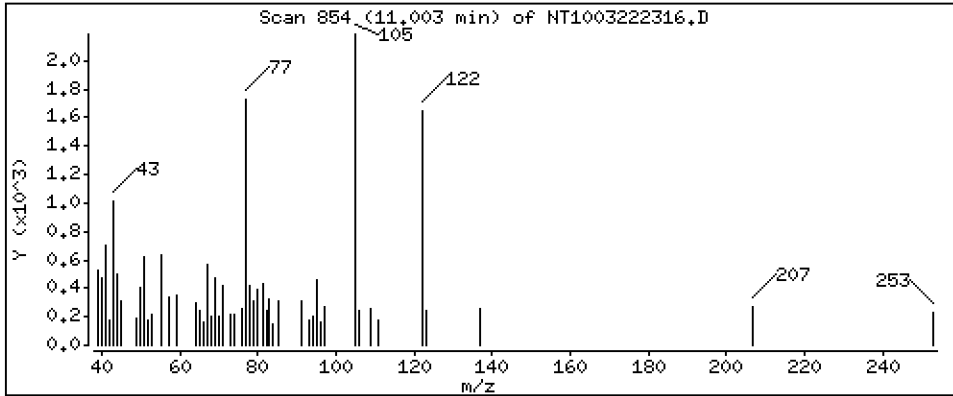
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,3476 ug/mL





Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

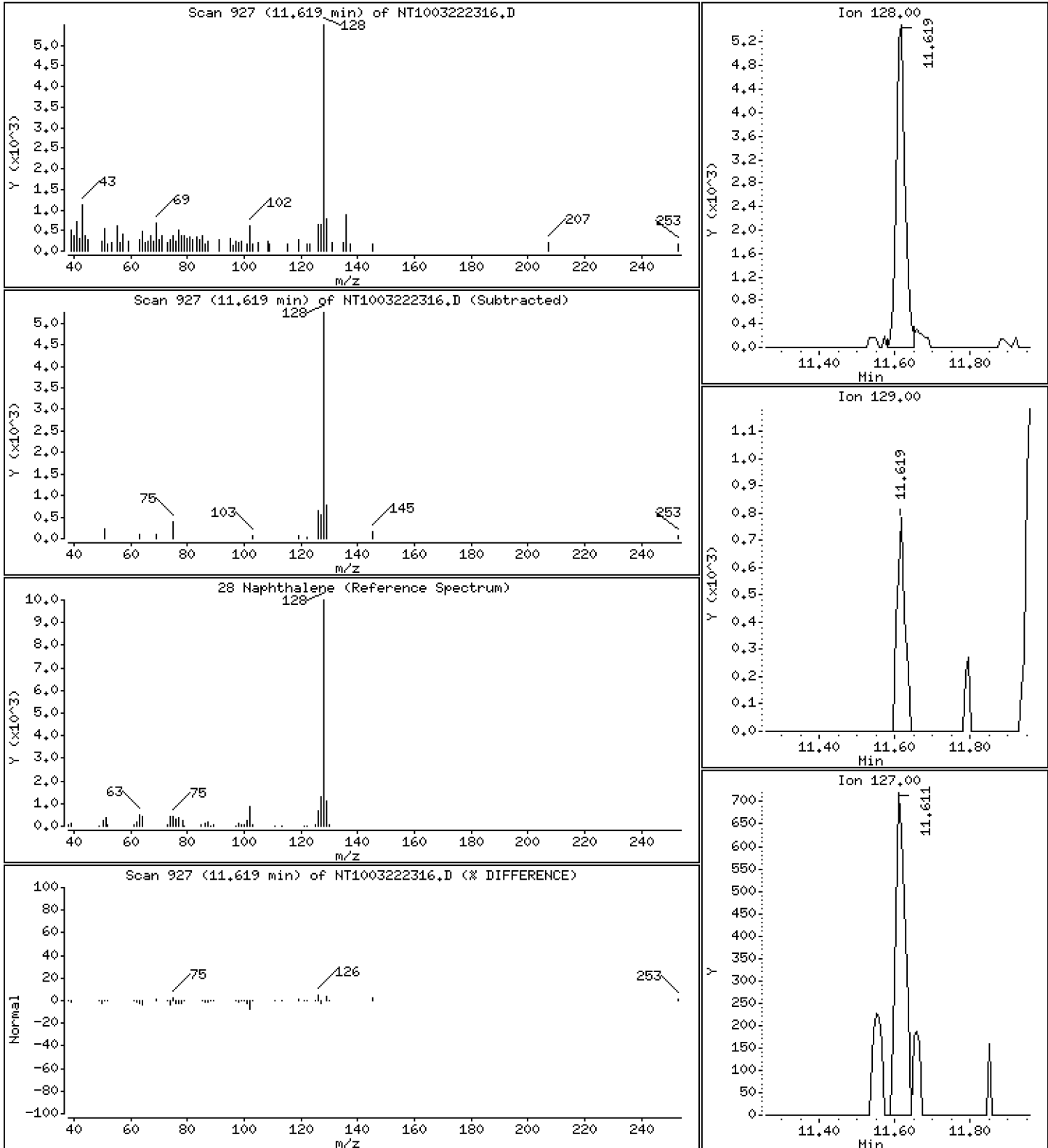
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 0.05728 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

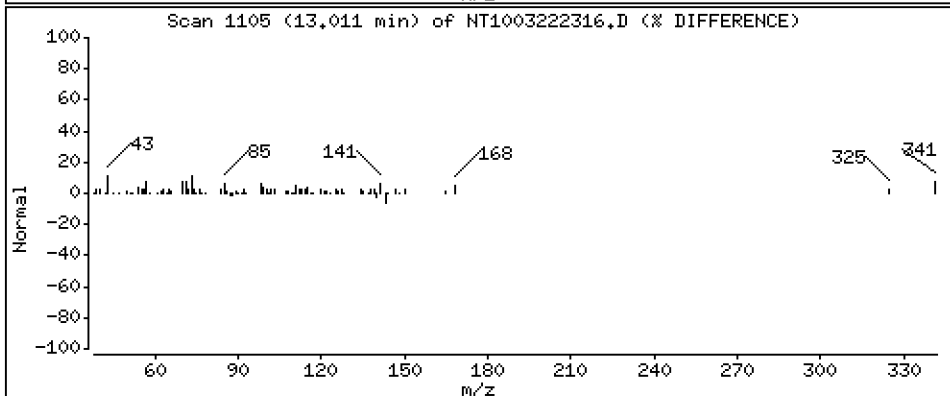
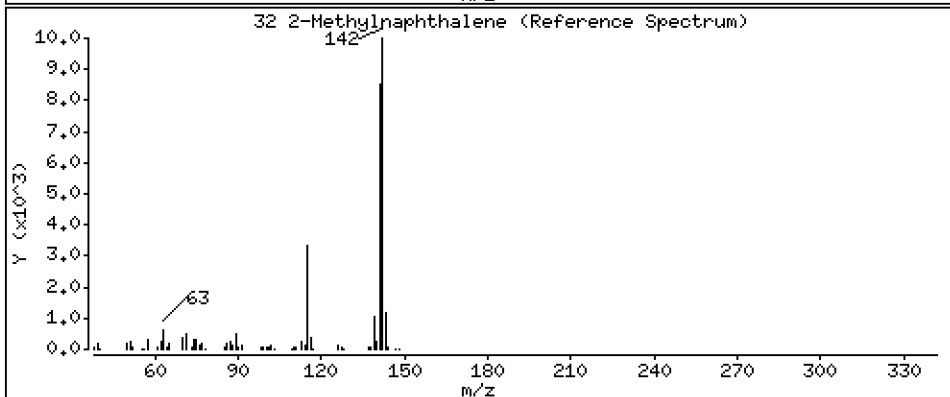
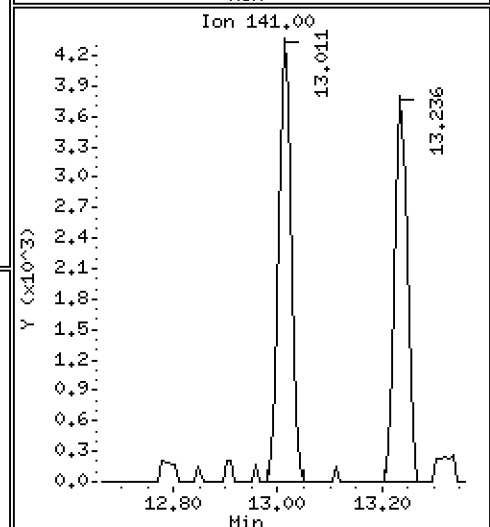
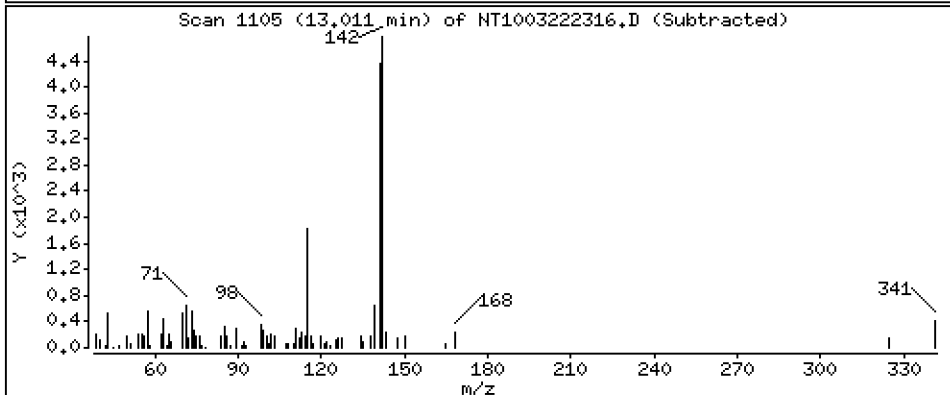
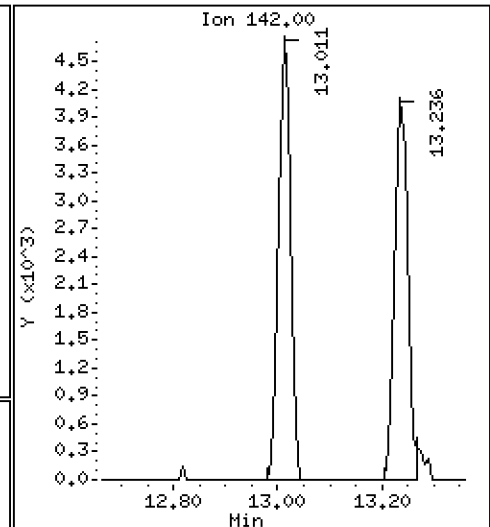
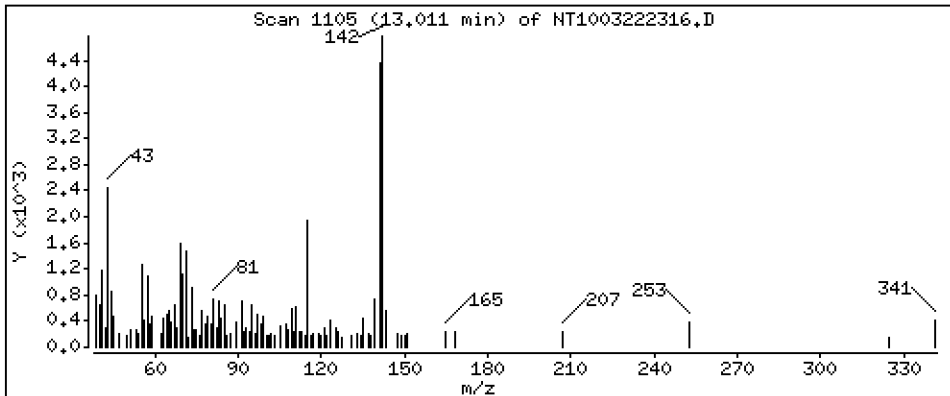
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,06487 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

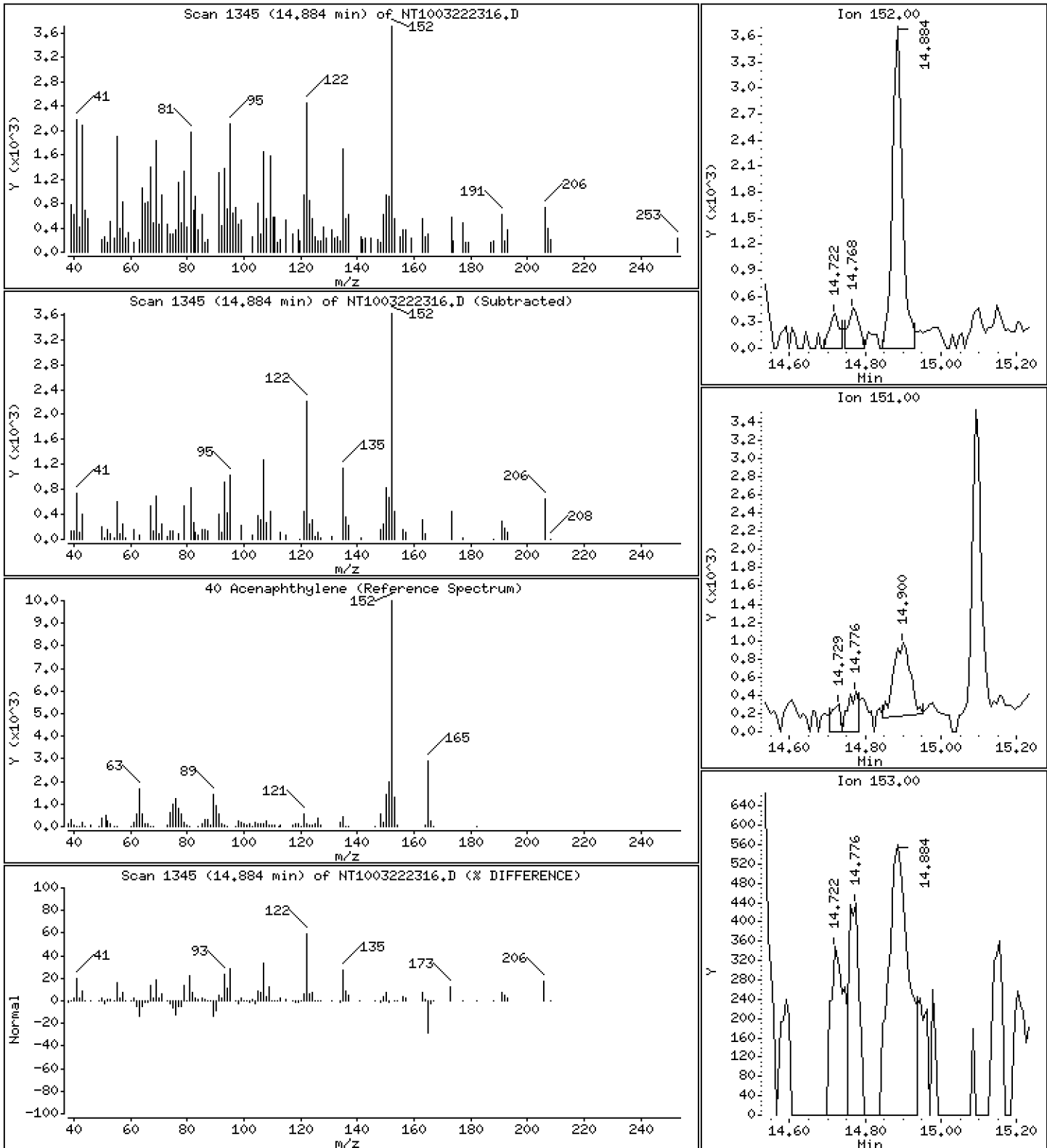
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 0.04033 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

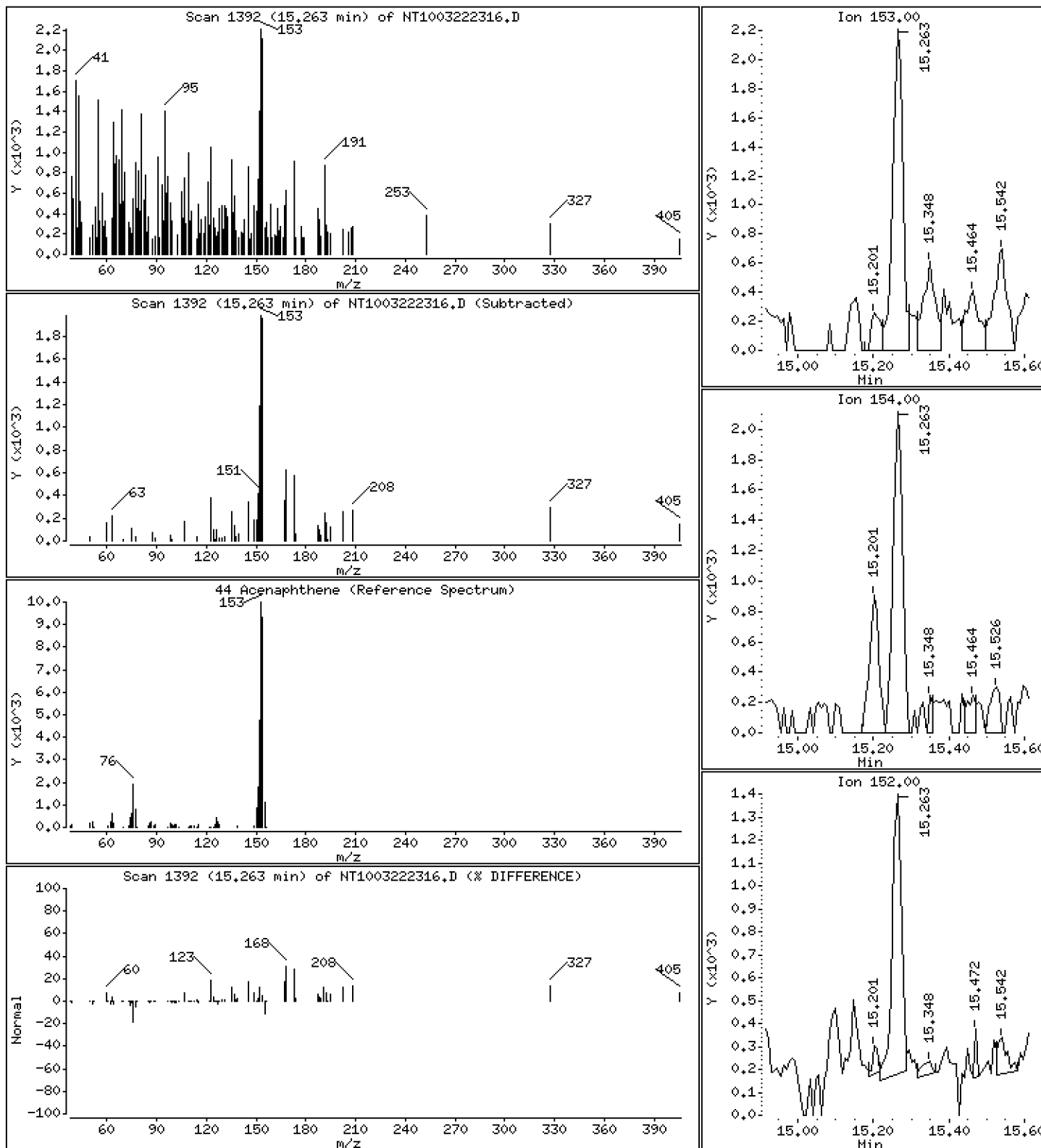
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 0.04019 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

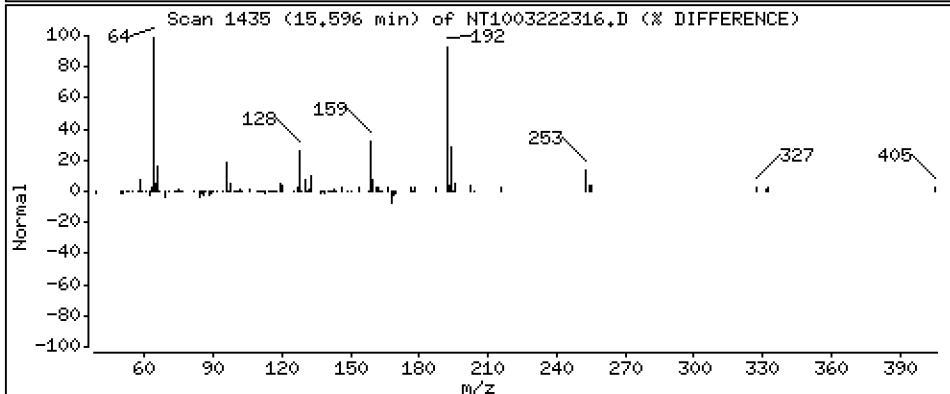
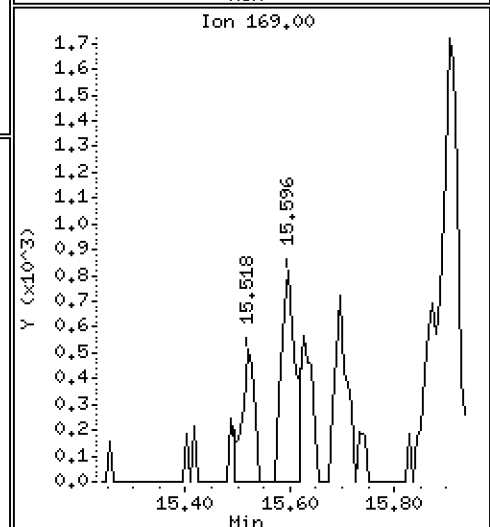
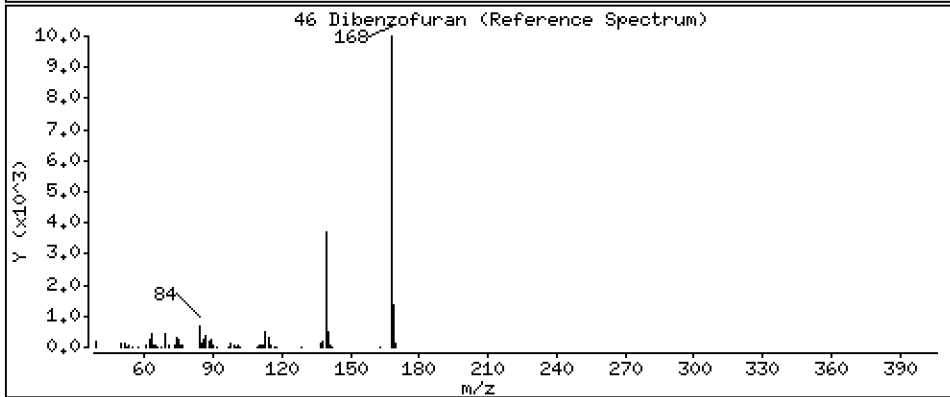
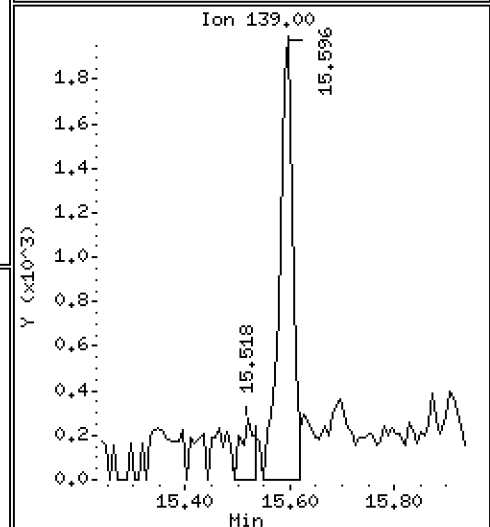
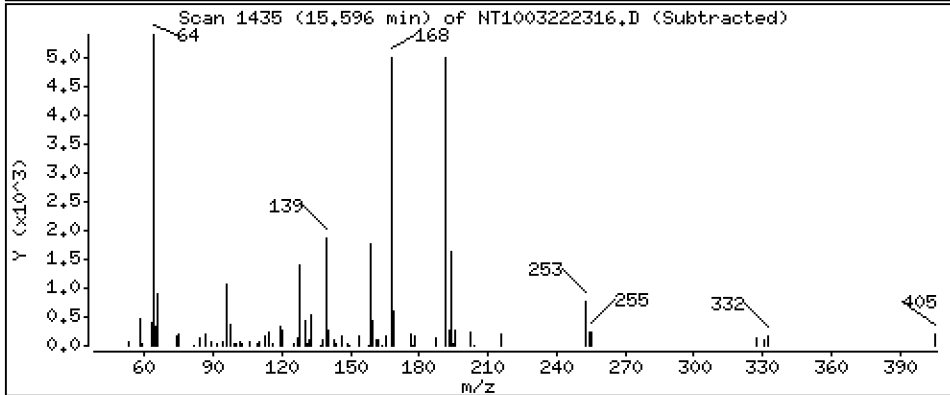
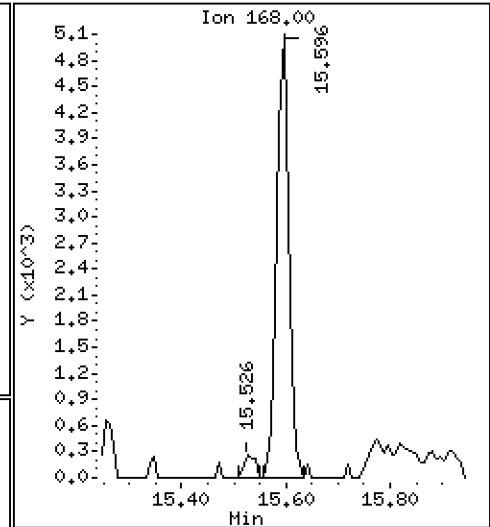
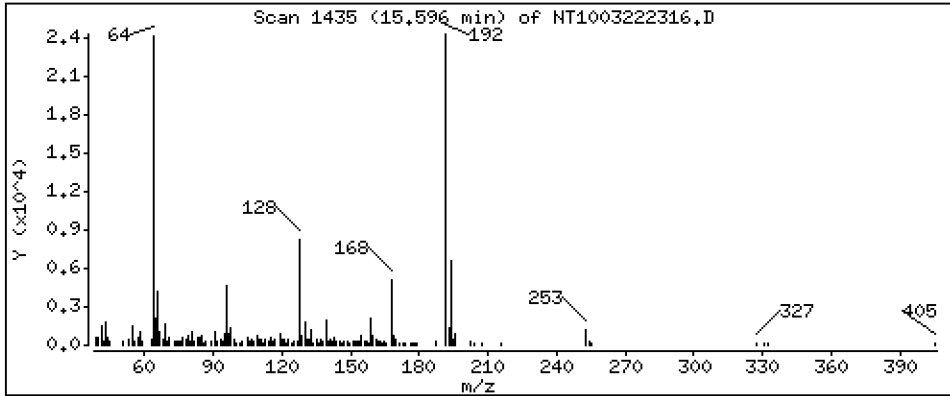
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,05305 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

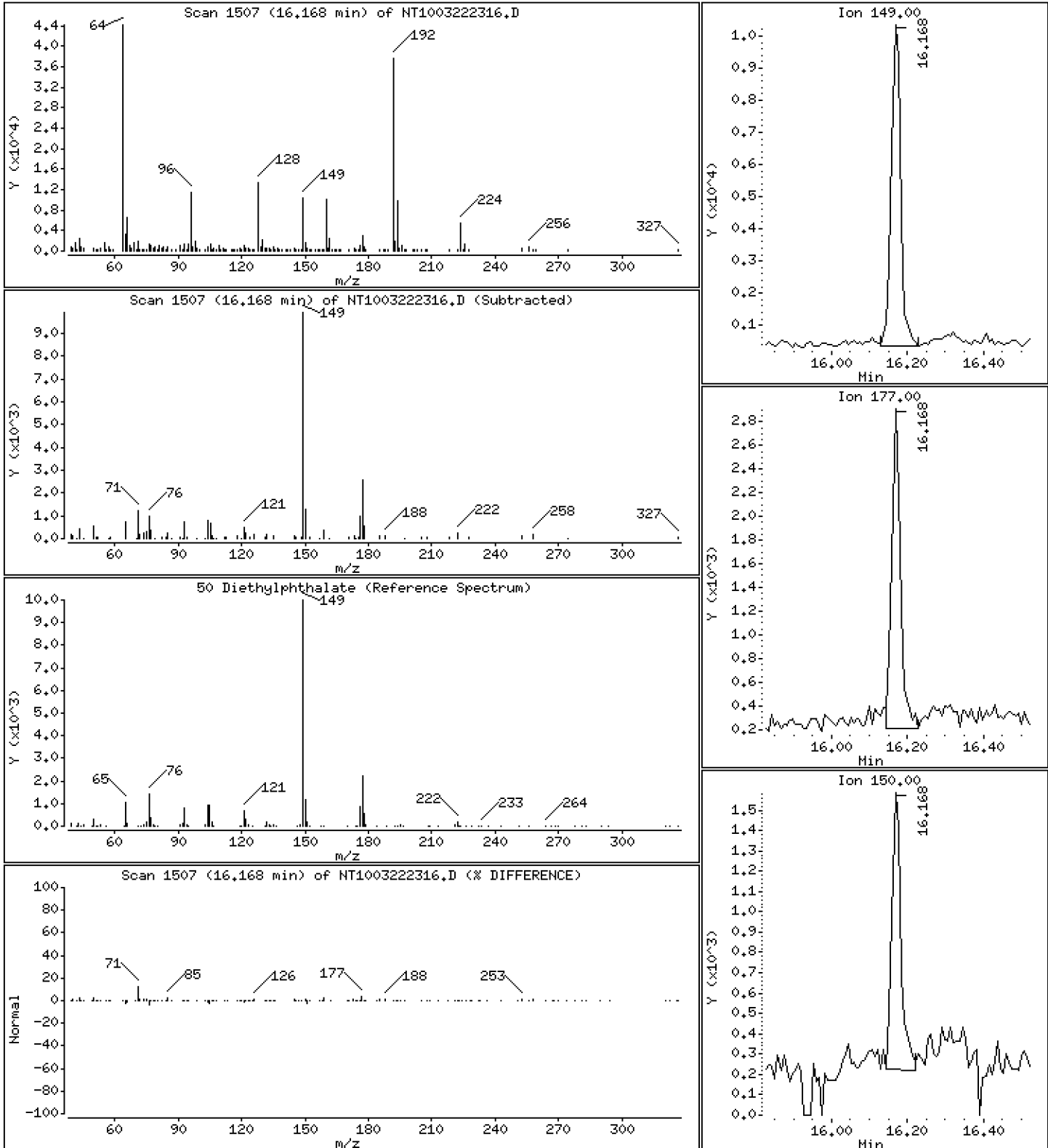
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 0.1812 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

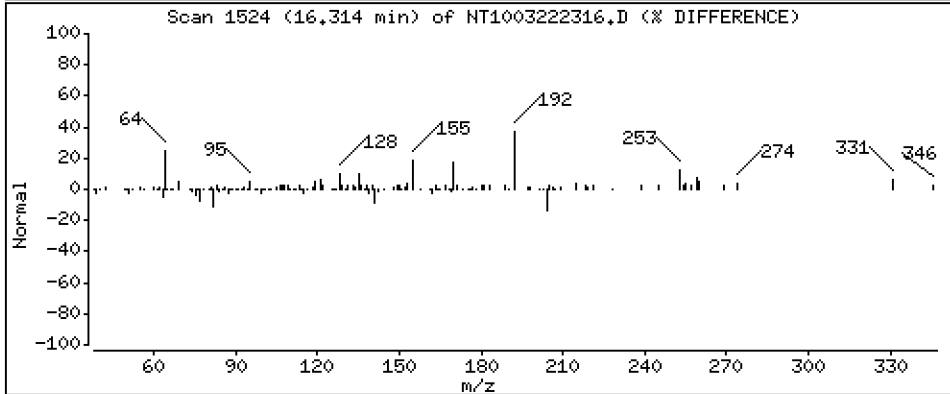
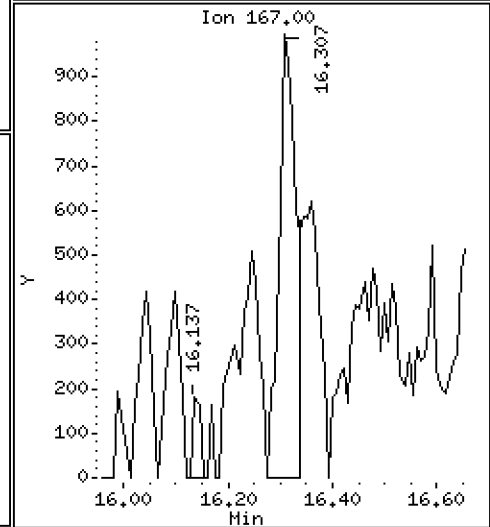
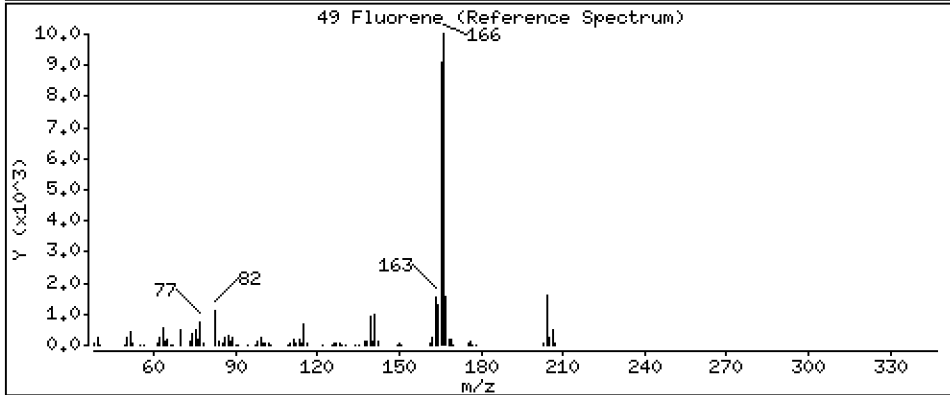
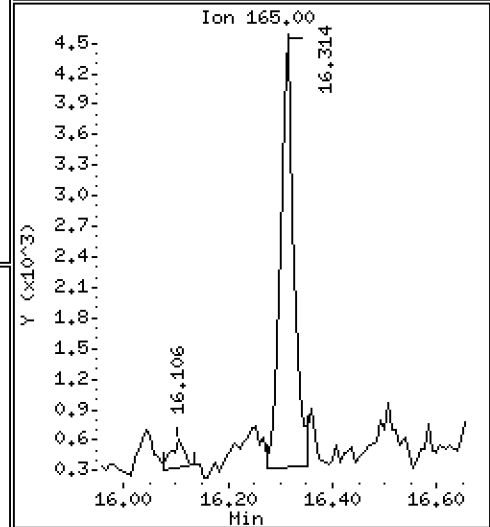
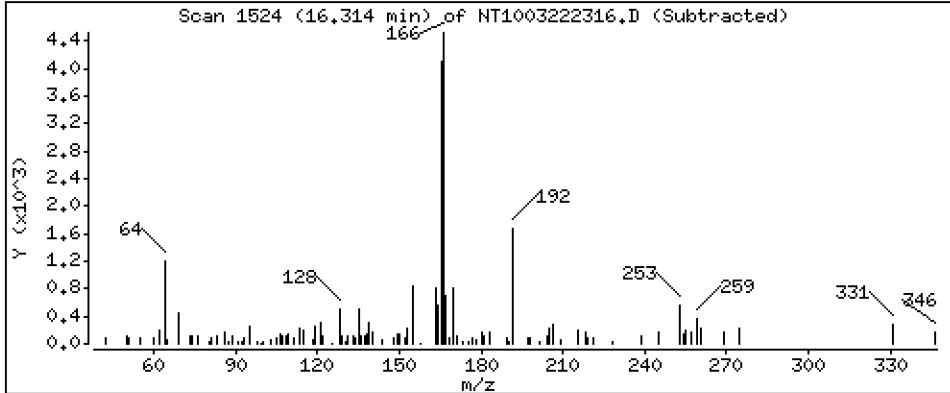
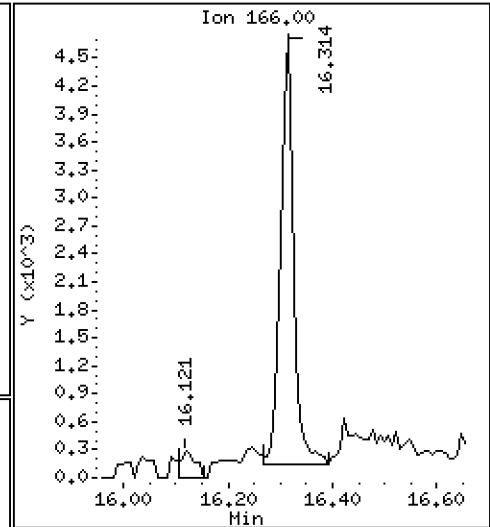
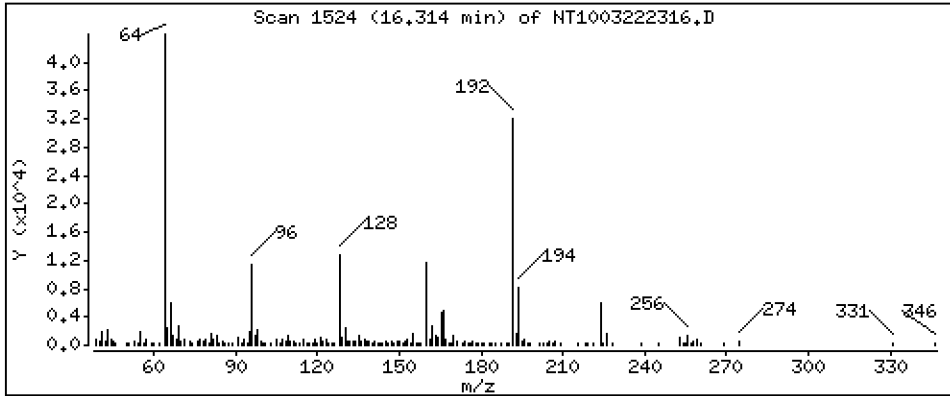
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,06967 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

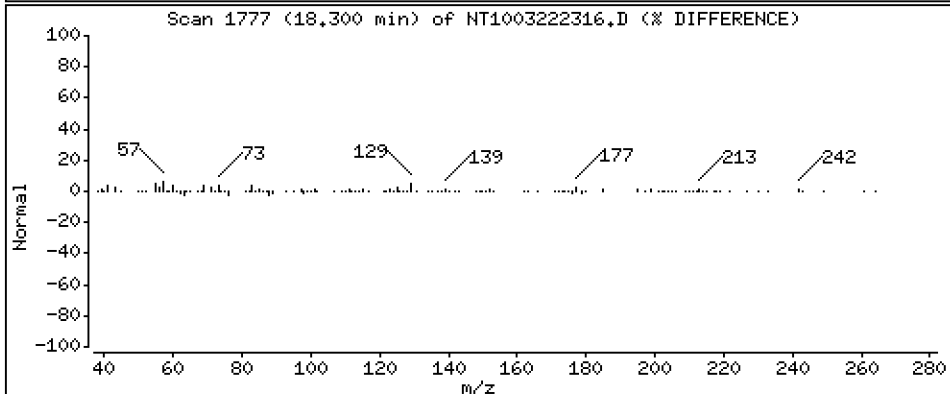
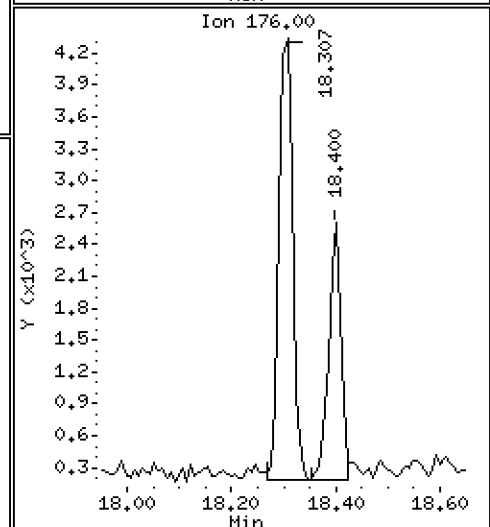
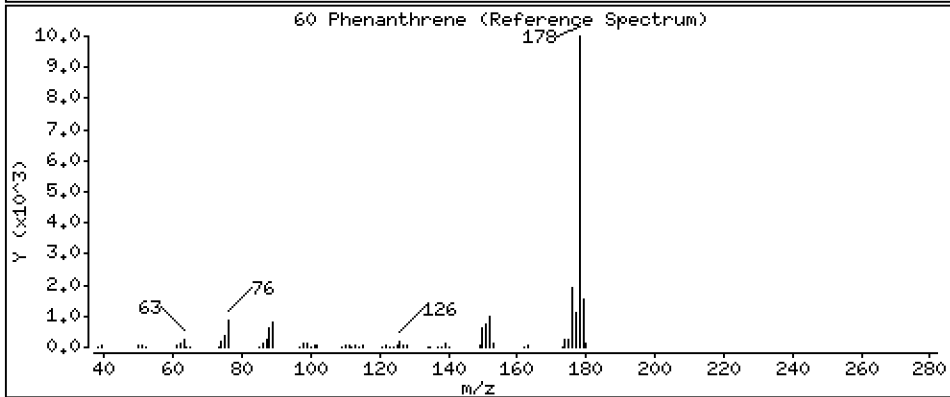
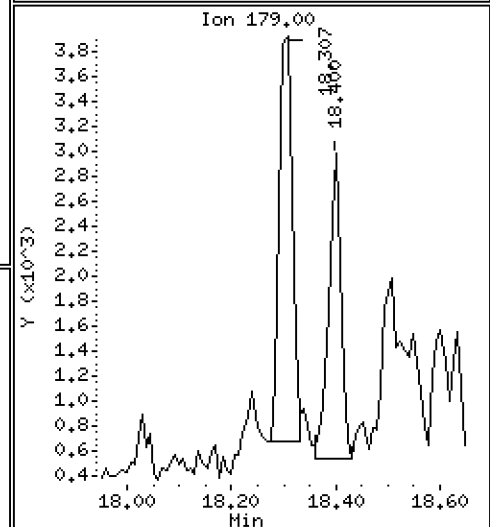
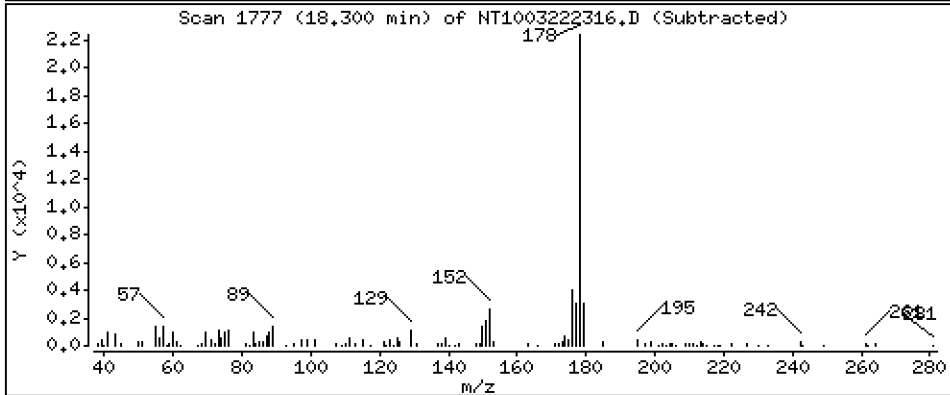
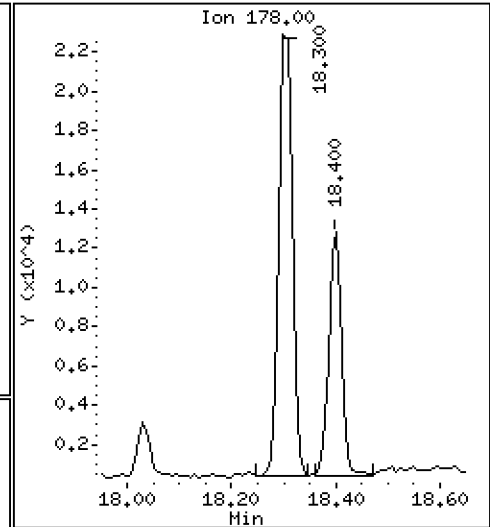
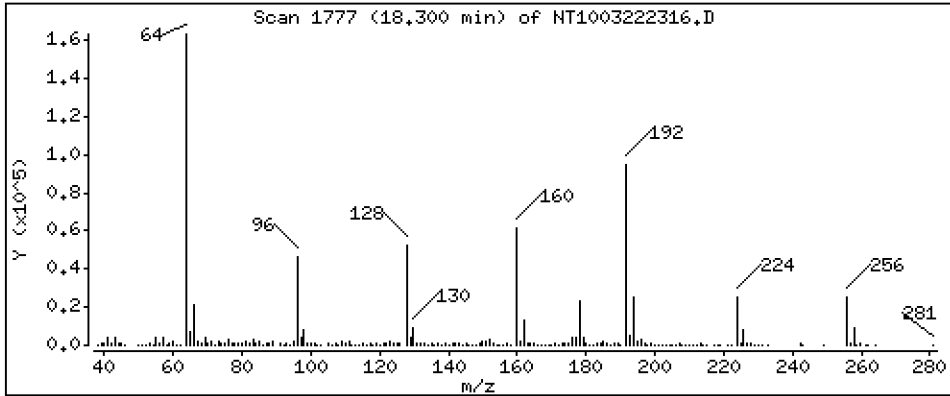
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 0.2352 ug/mL





Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

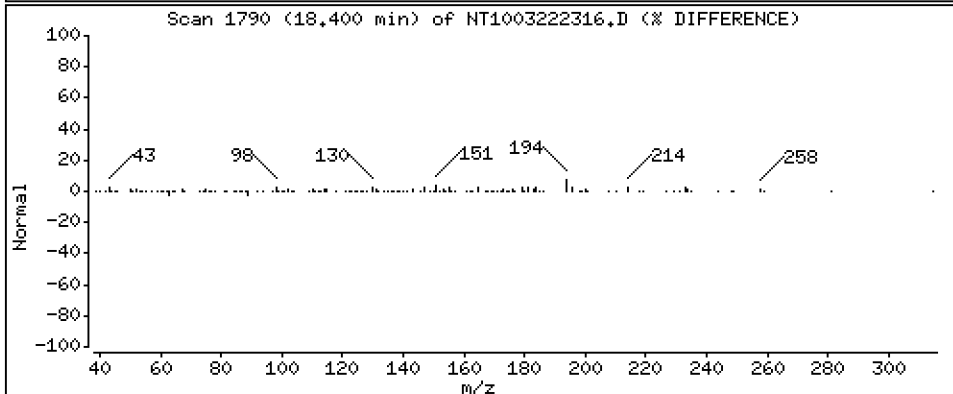
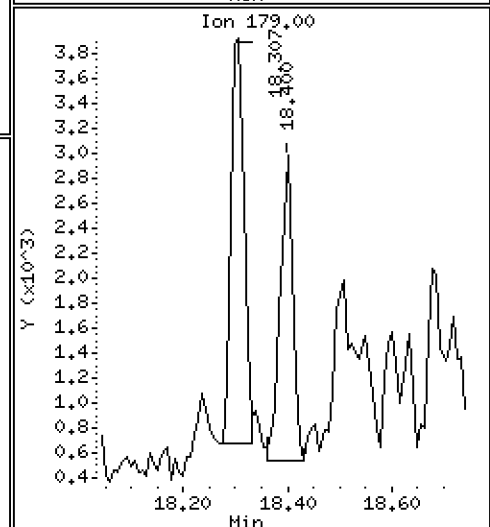
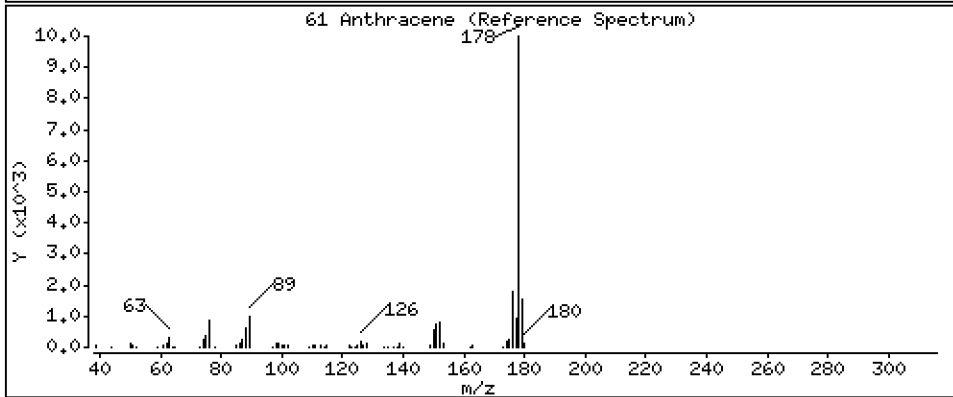
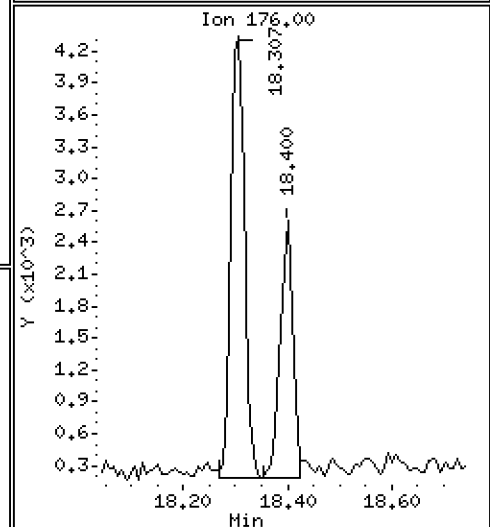
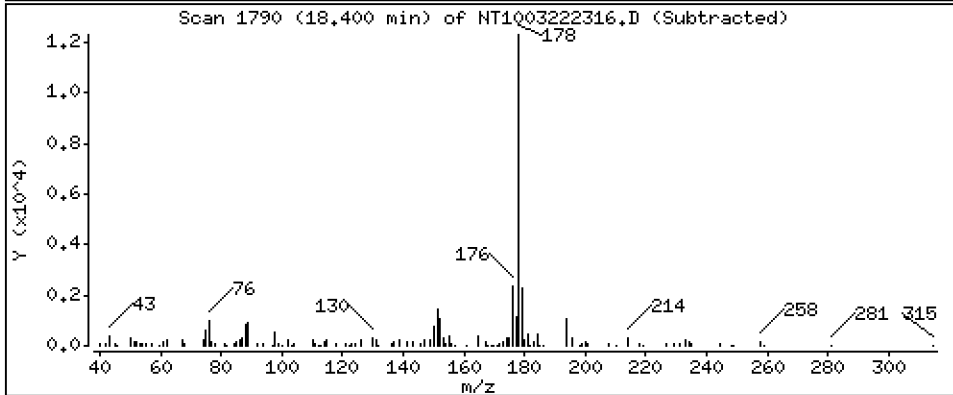
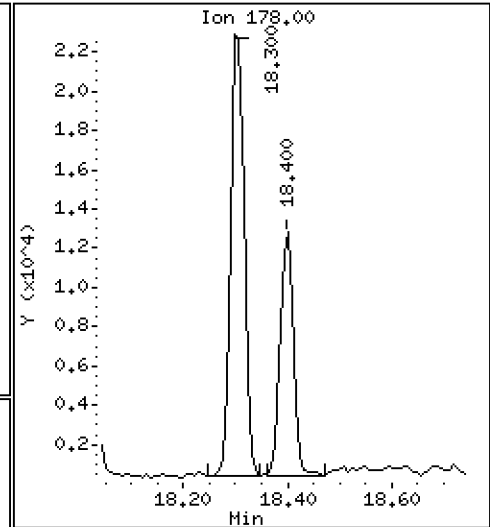
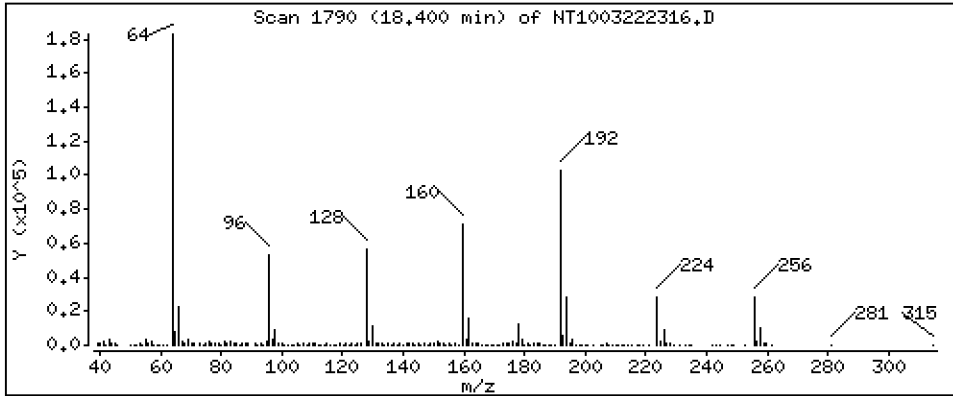
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,1341 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

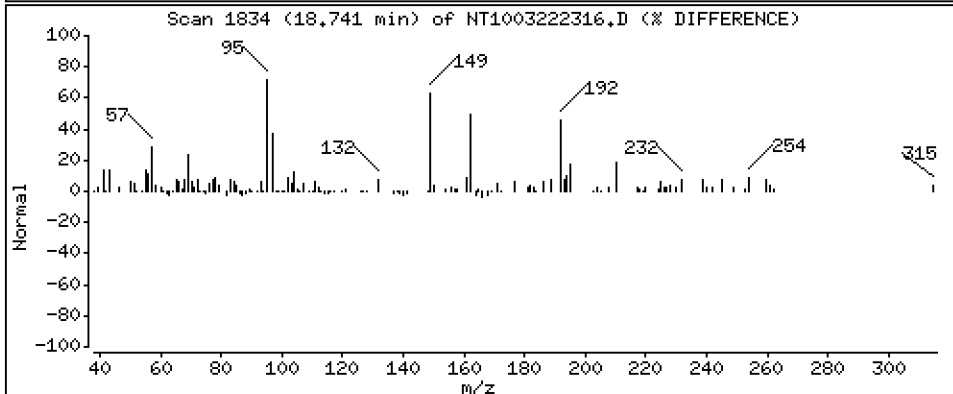
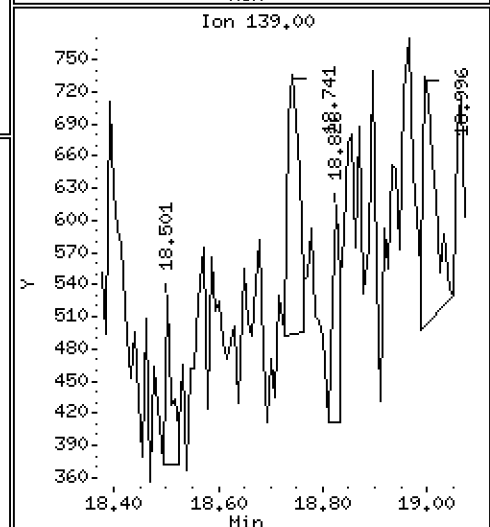
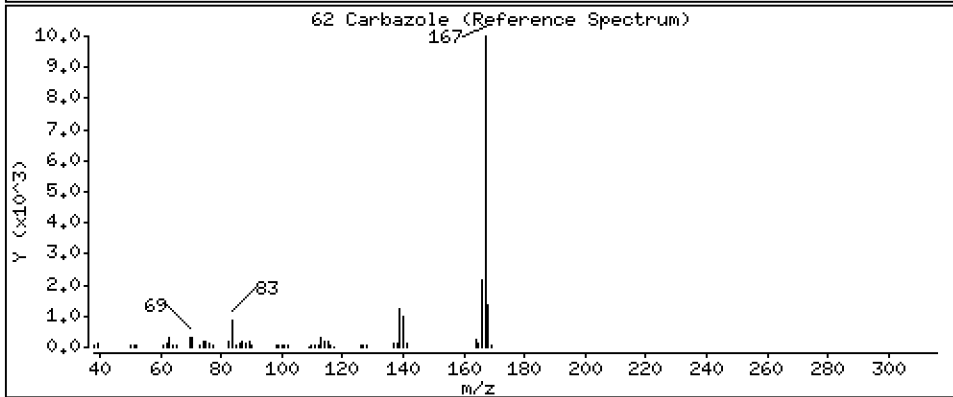
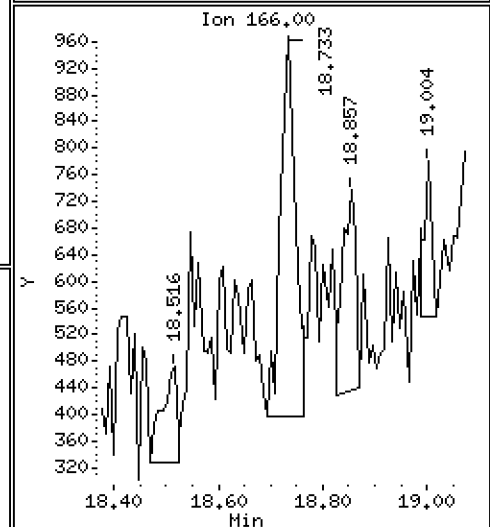
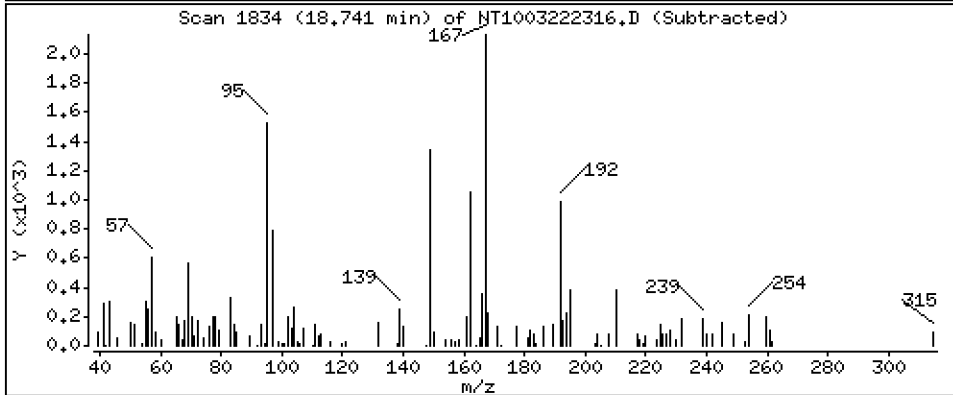
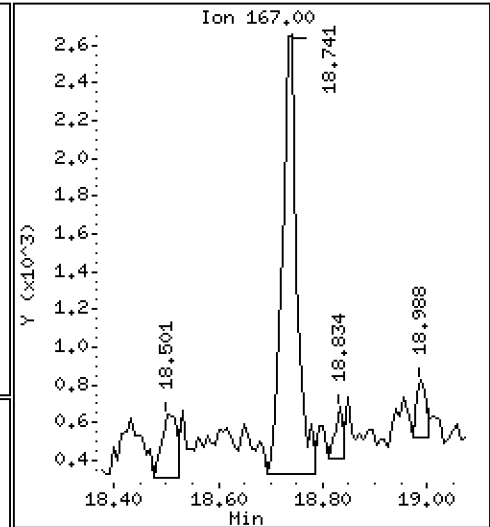
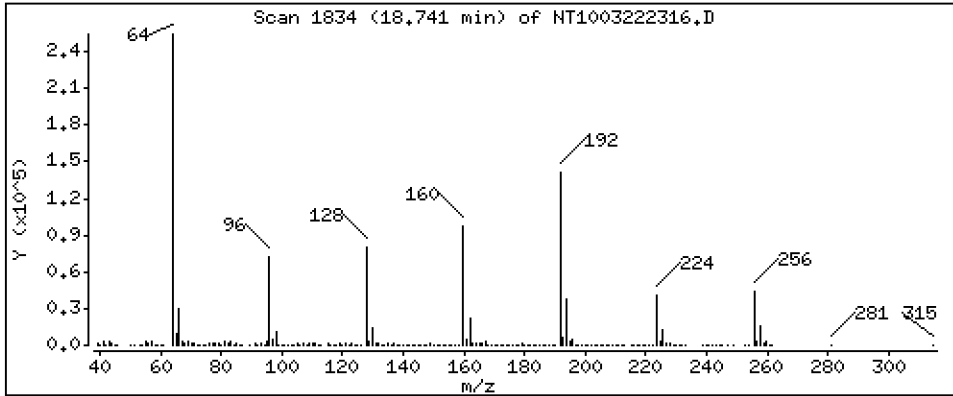
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,03214 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

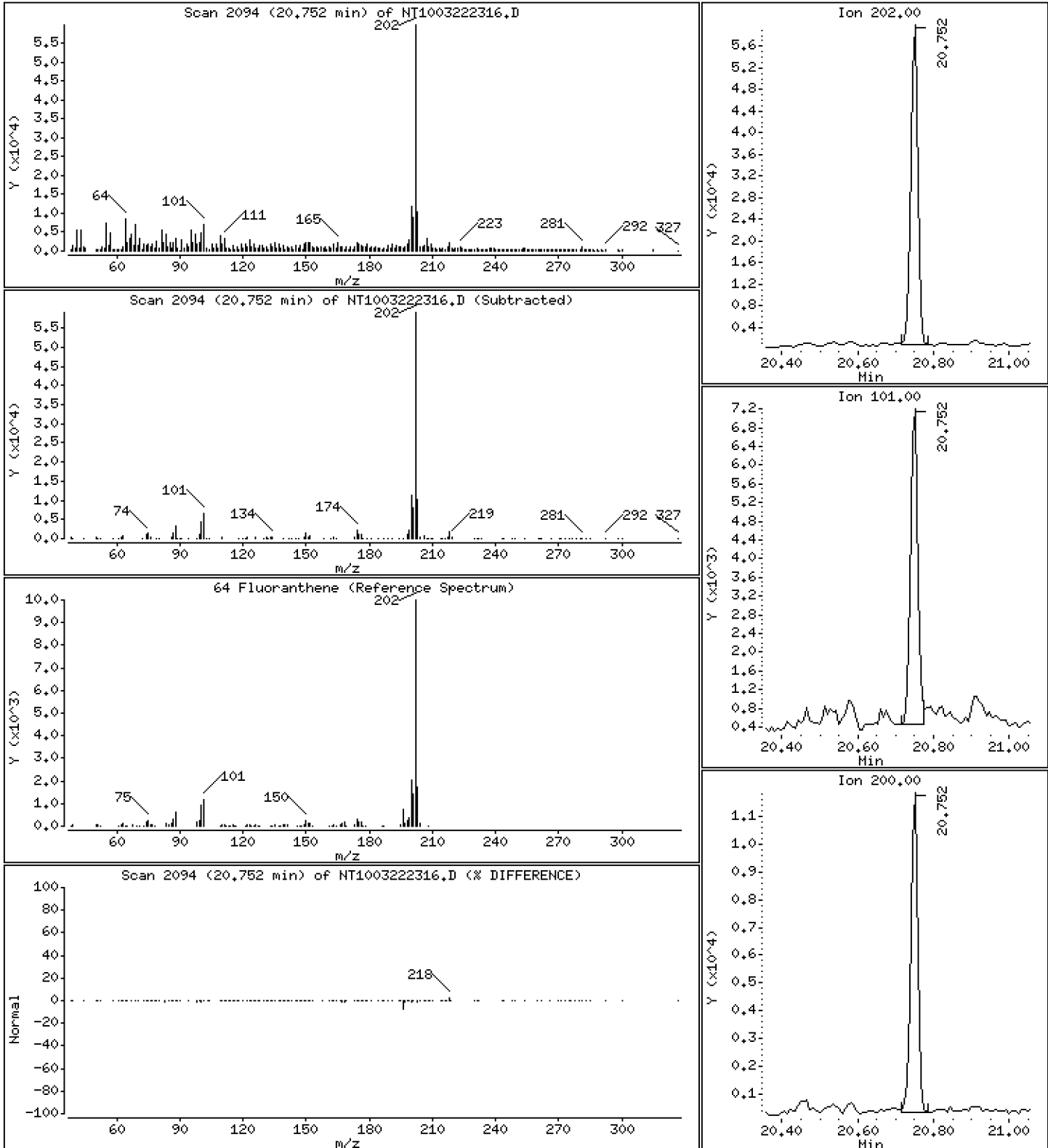
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,3763 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

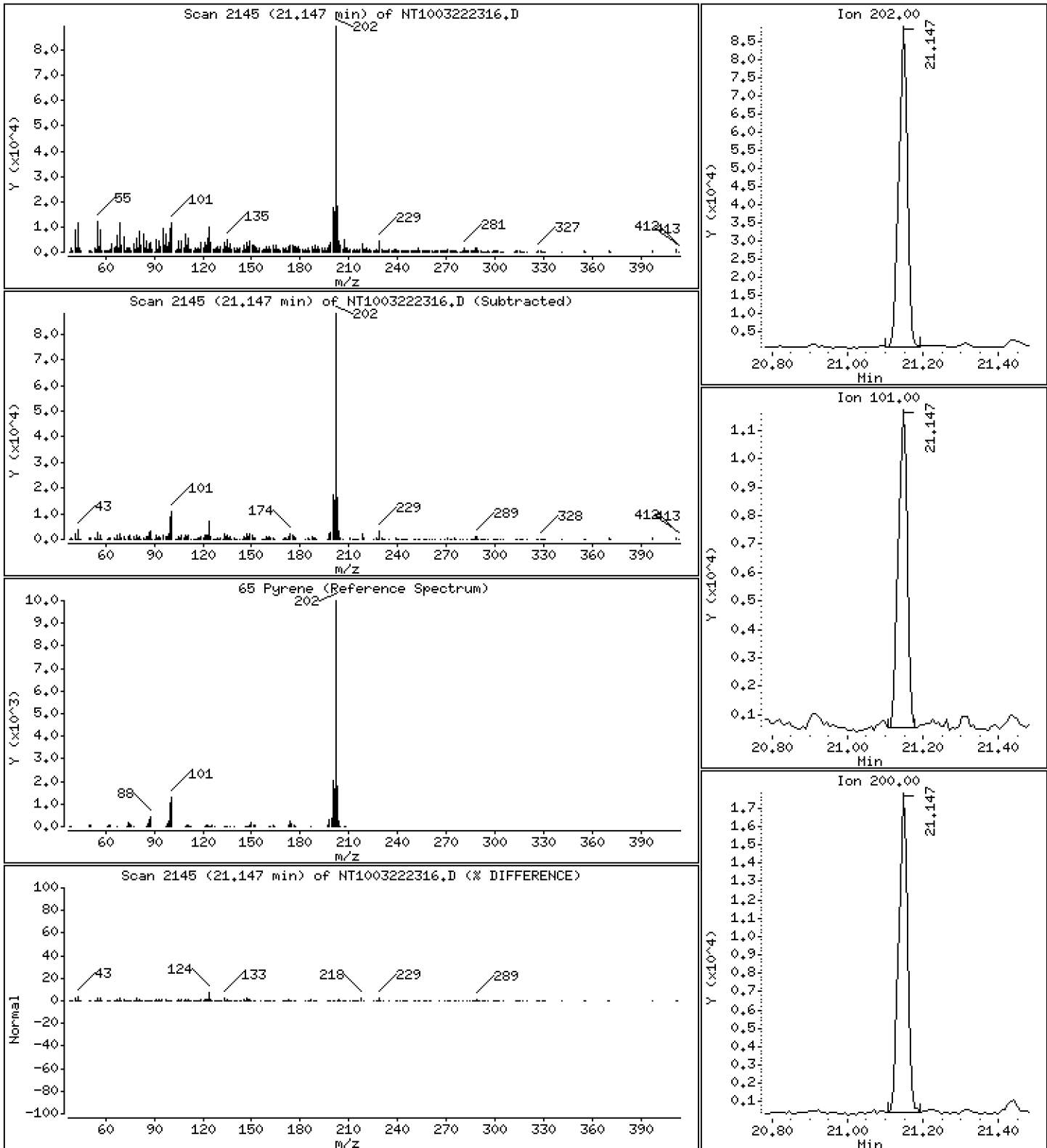
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,6182 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

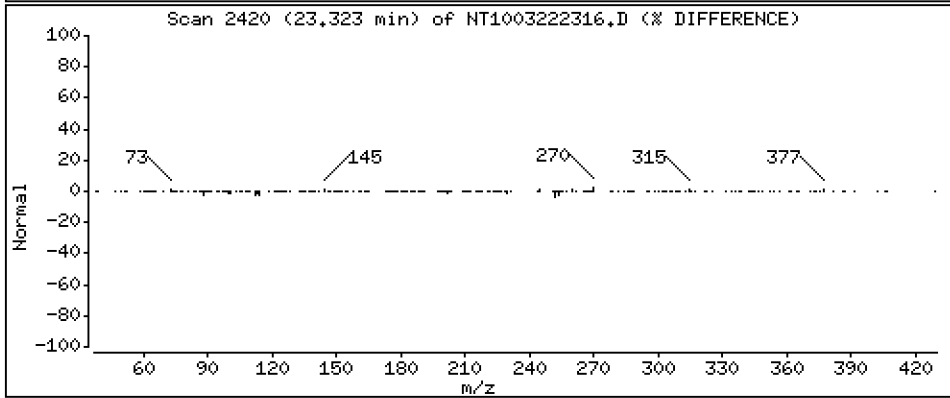
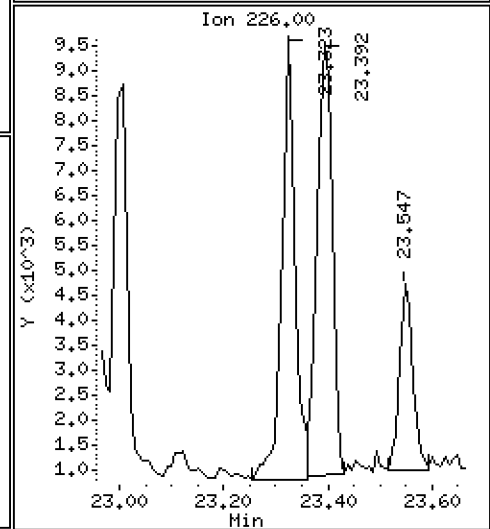
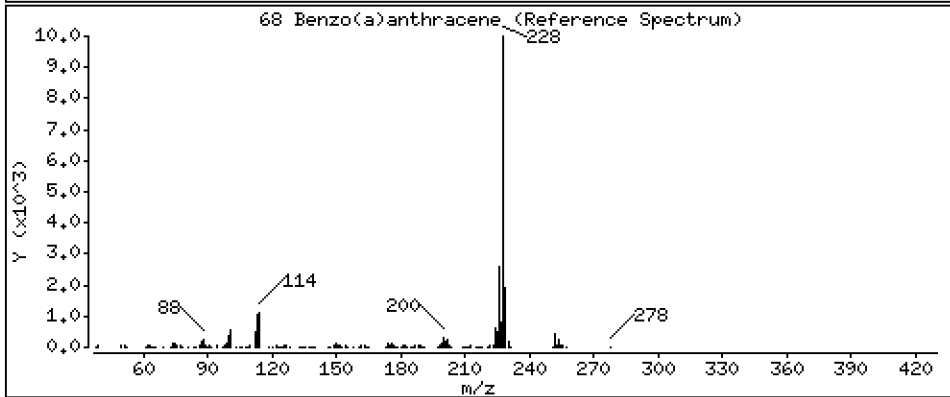
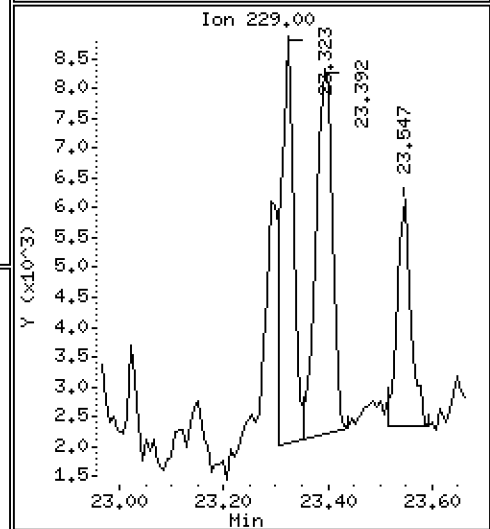
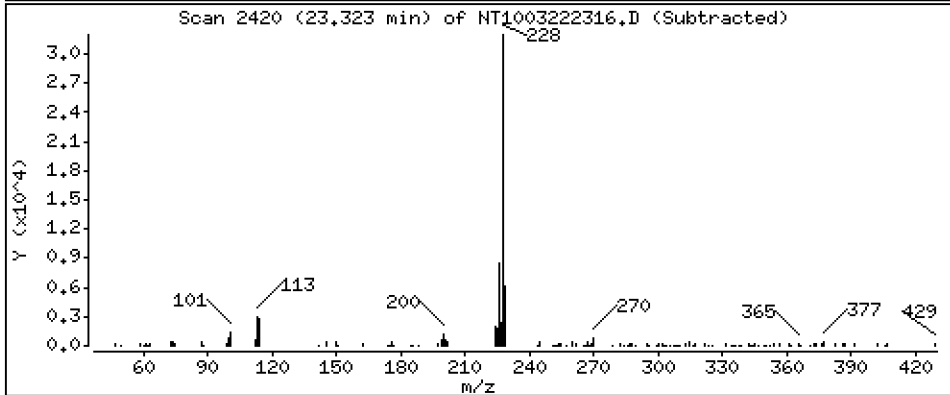
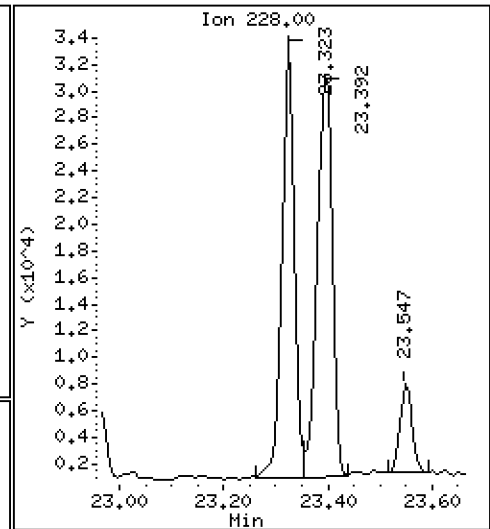
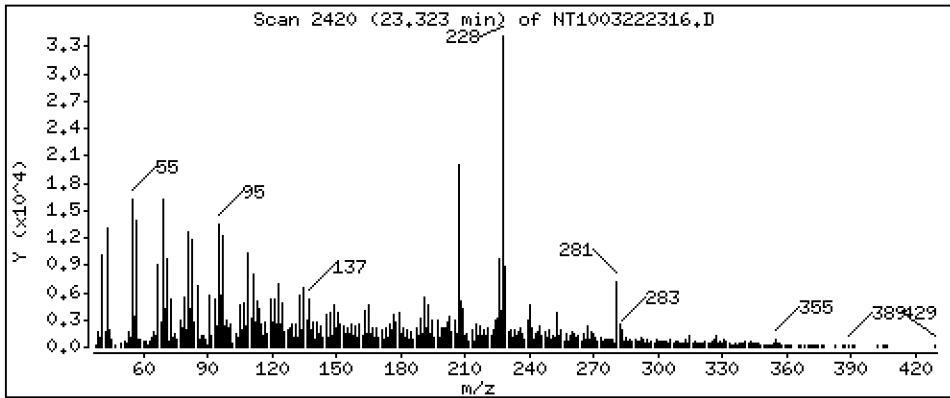
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 0.2833 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

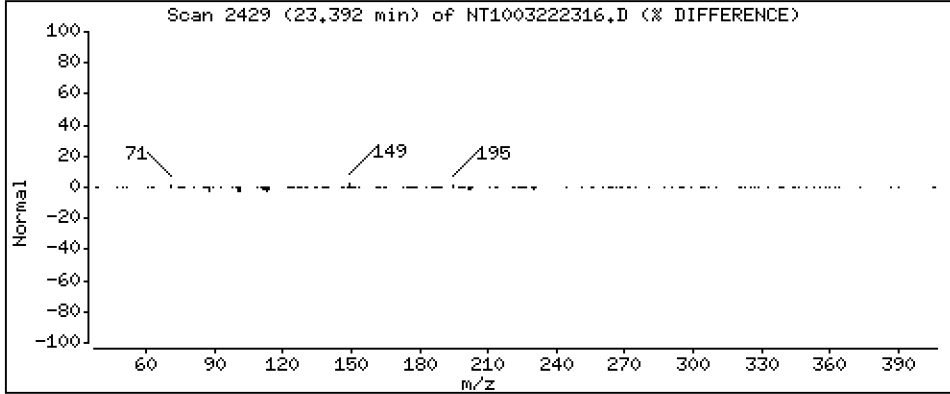
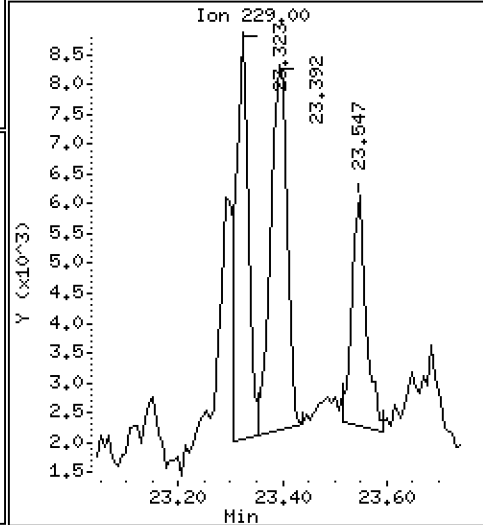
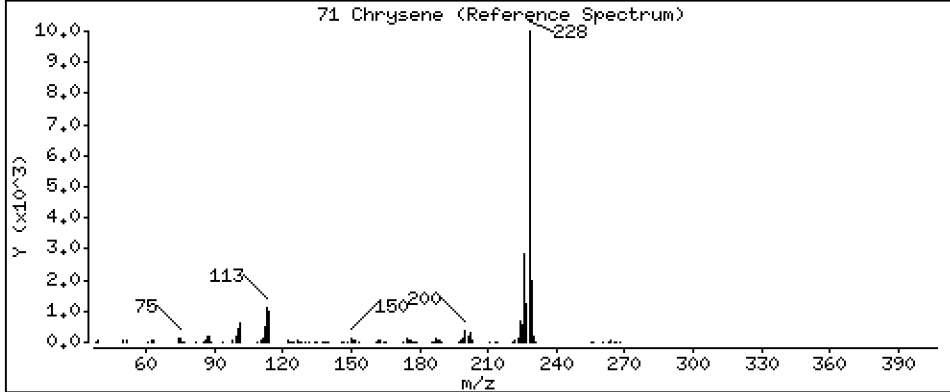
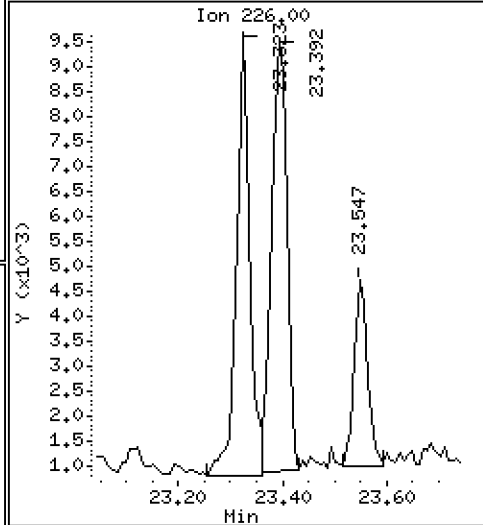
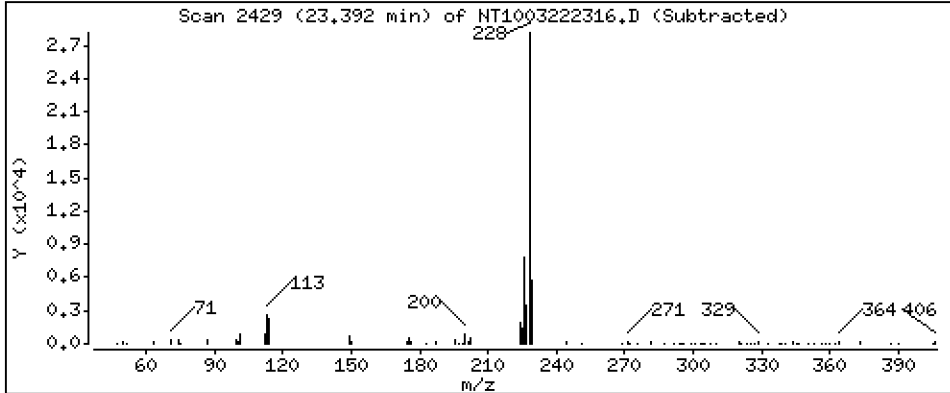
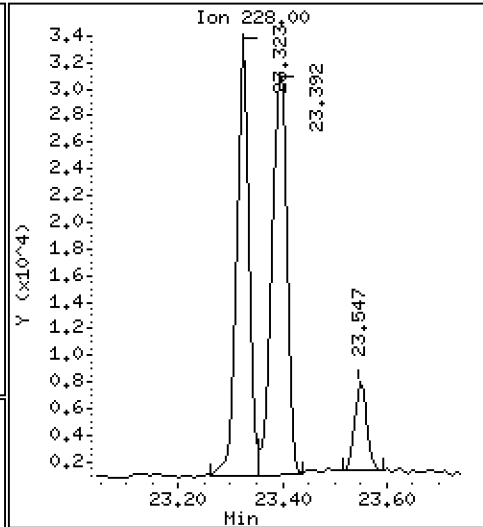
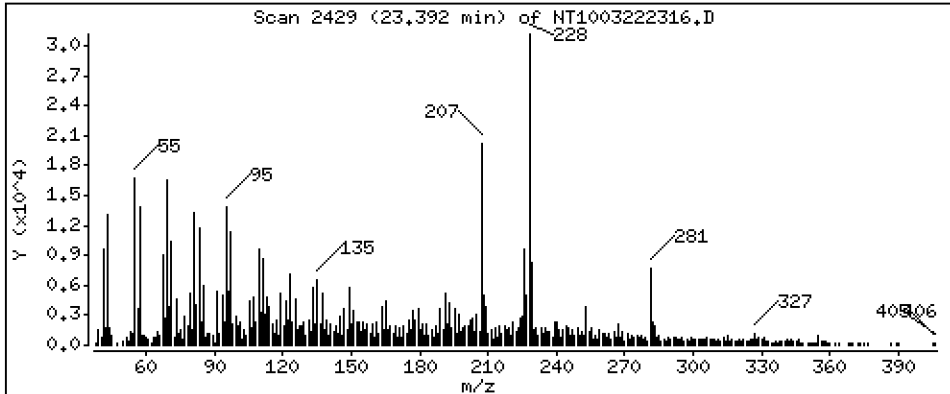
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

71 Chrysene

Concentration: 0.3193 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

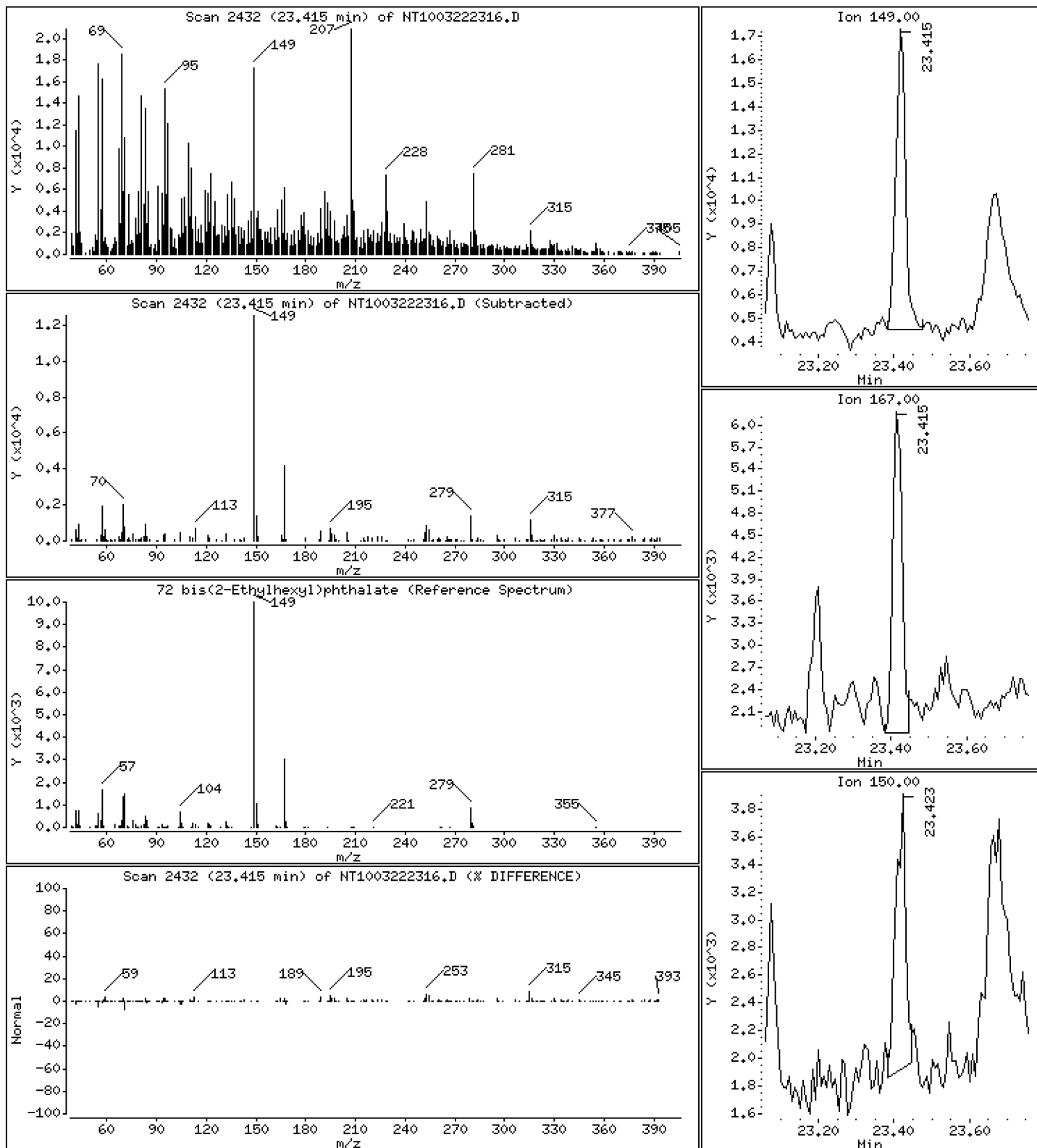
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0.1648 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

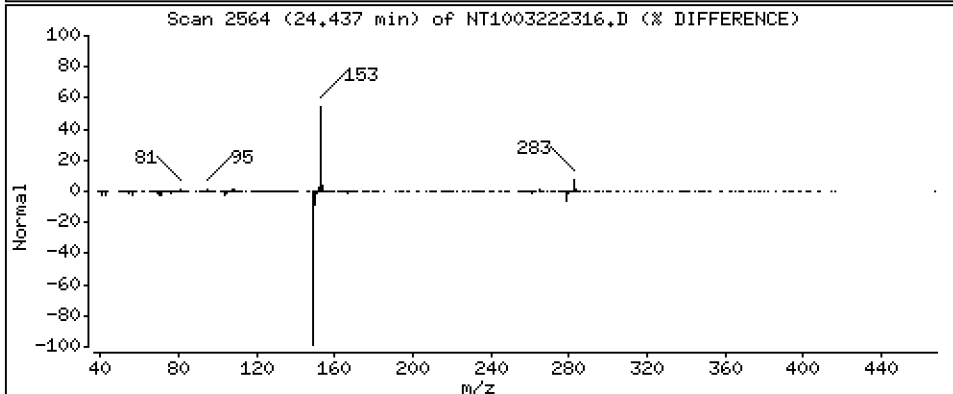
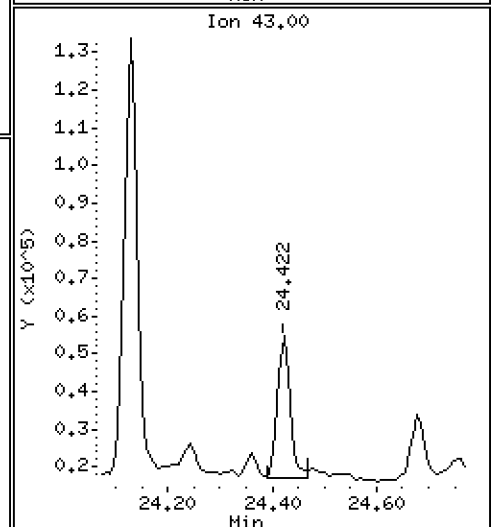
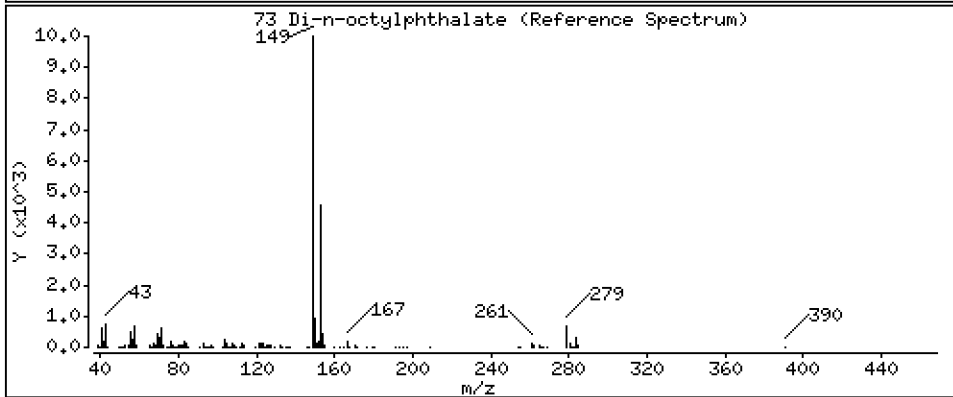
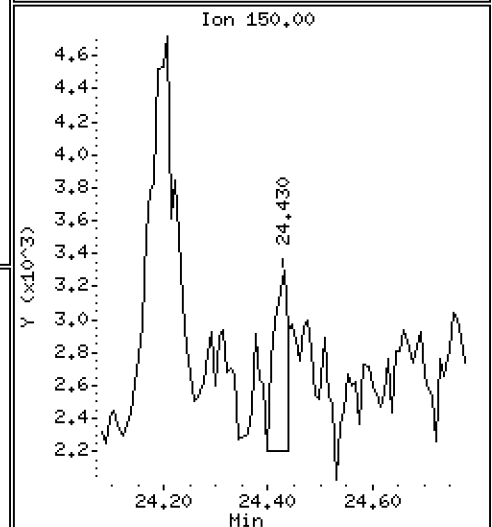
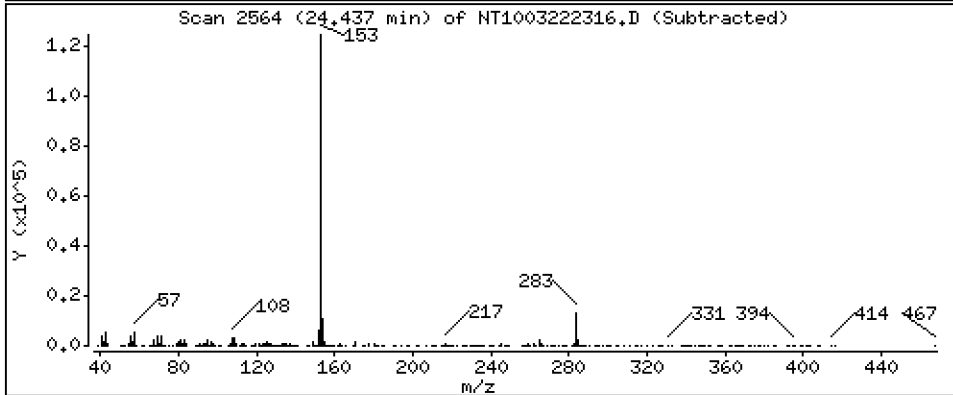
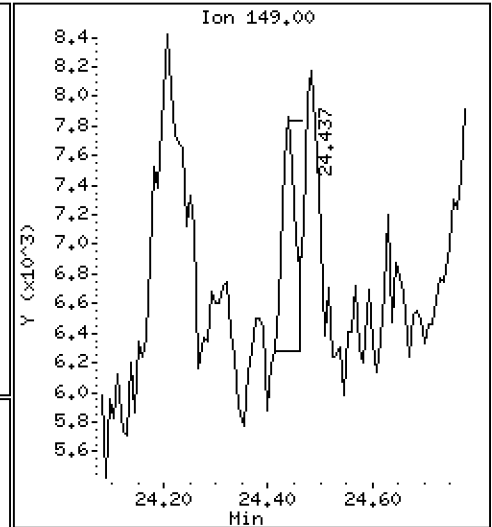
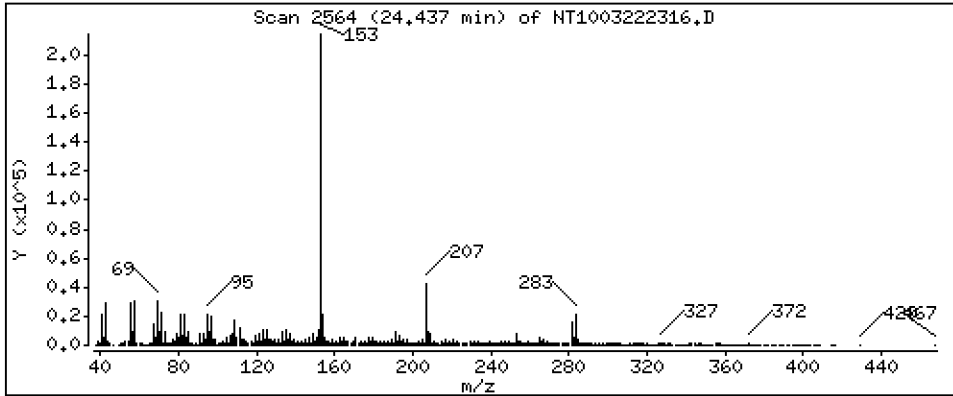
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,01099 ug/mL





Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

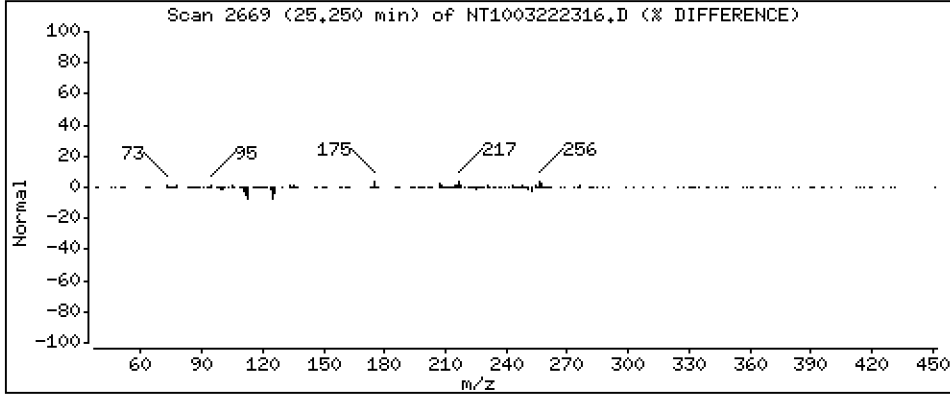
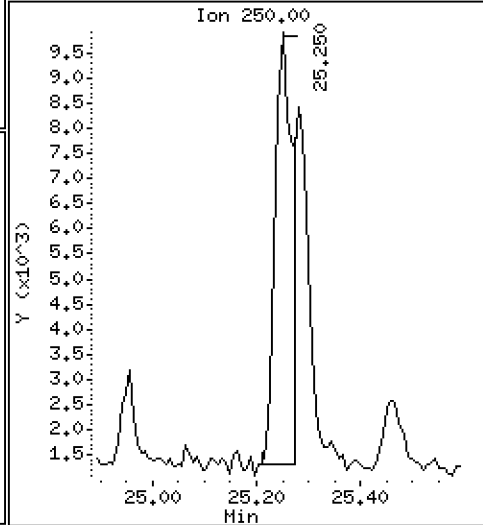
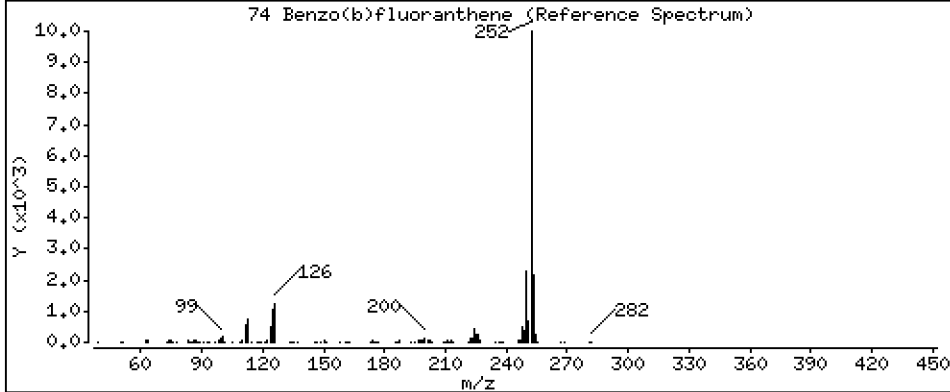
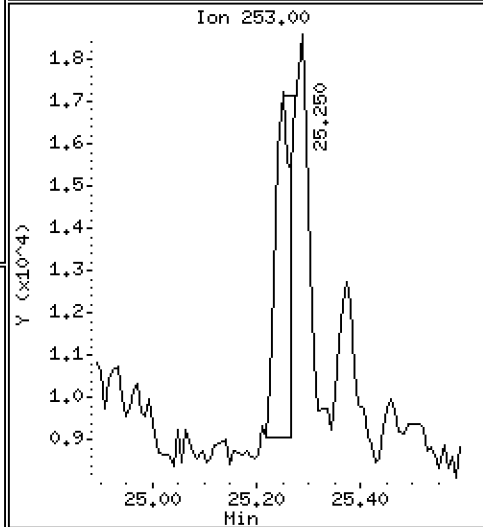
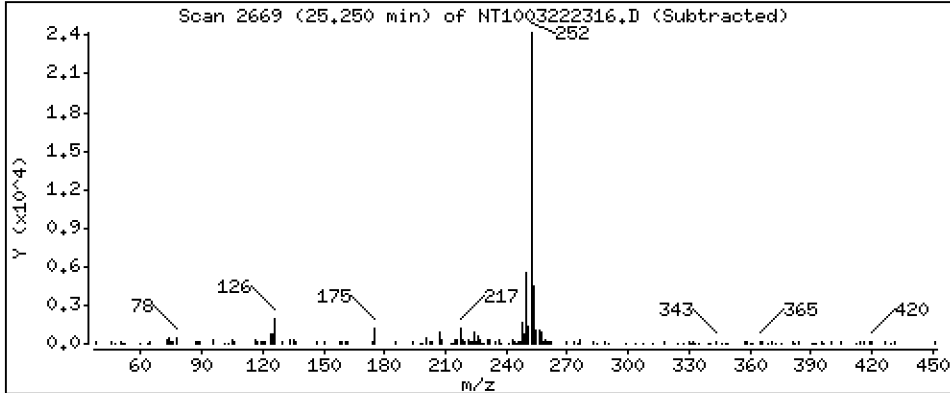
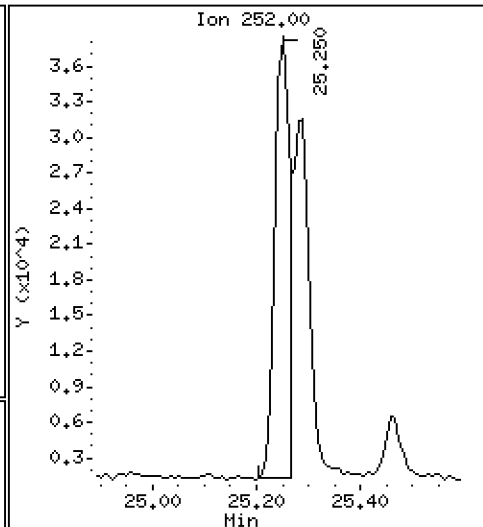
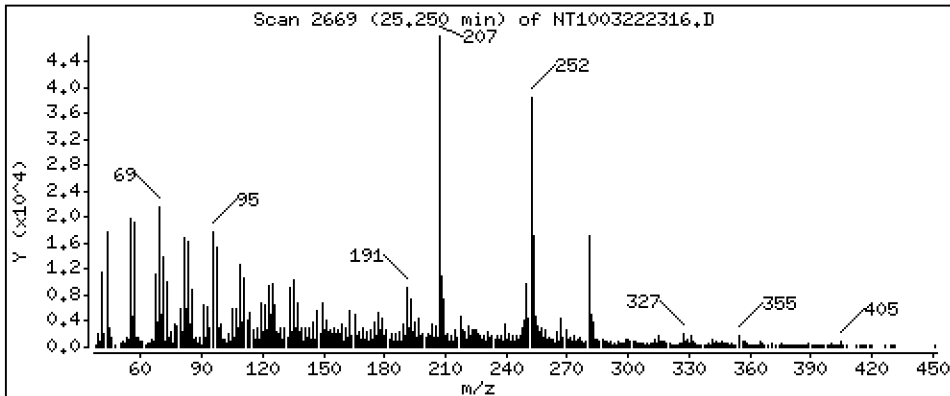
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,3517 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

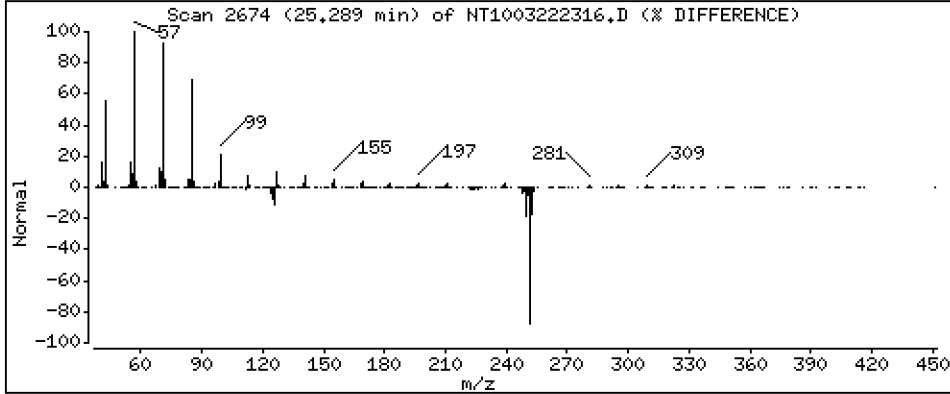
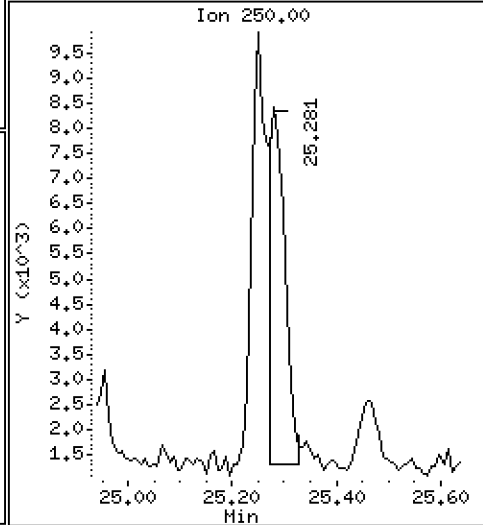
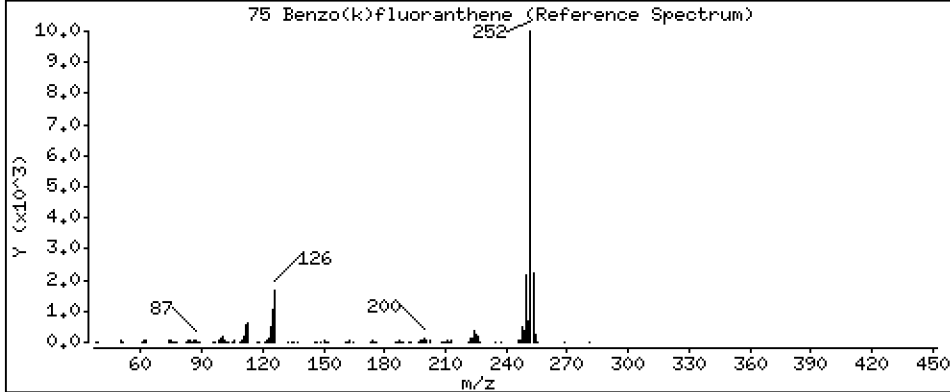
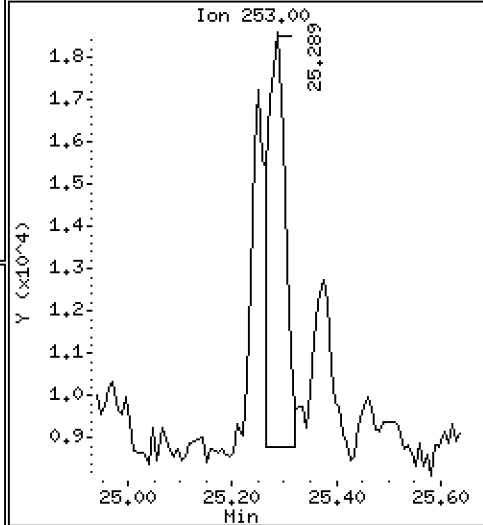
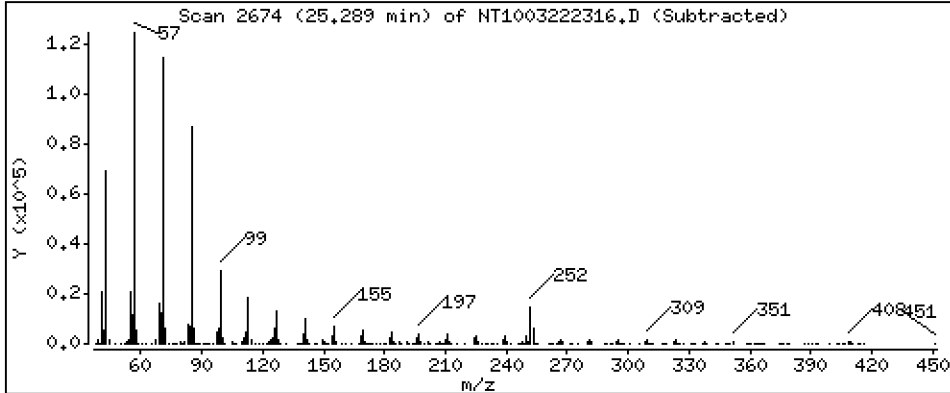
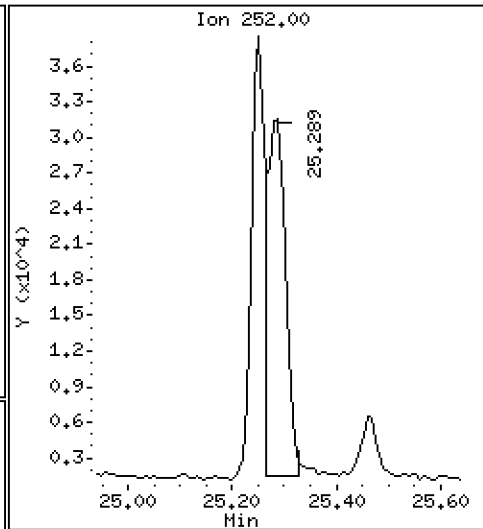
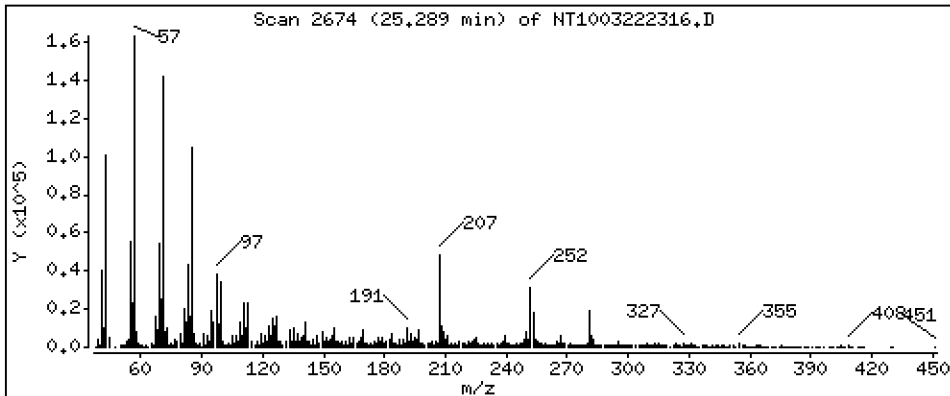
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,3643 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

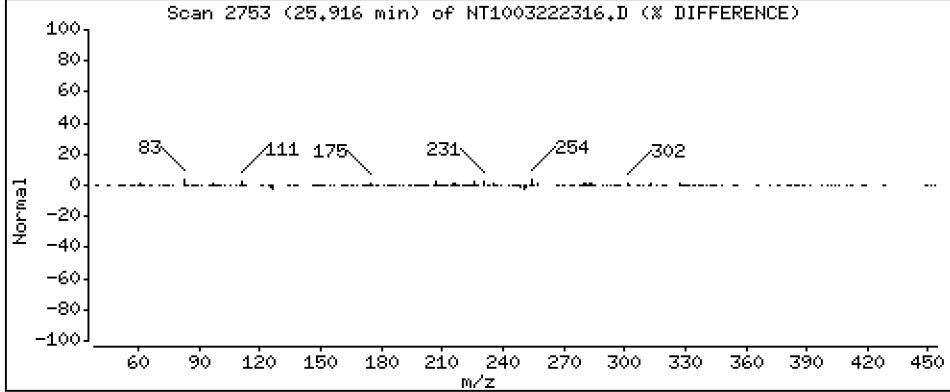
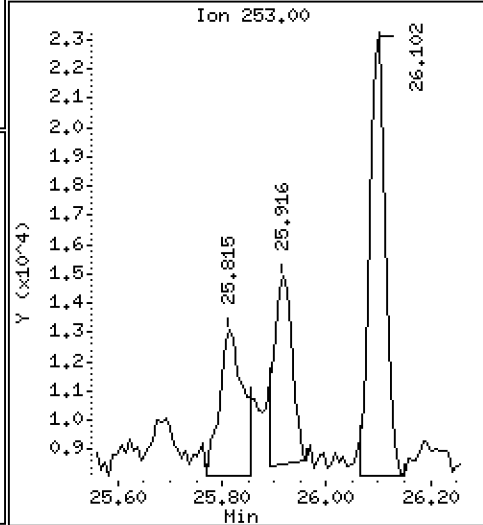
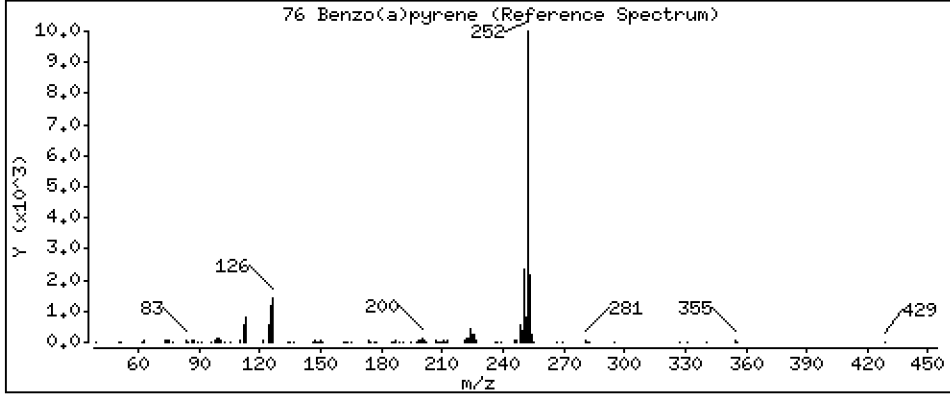
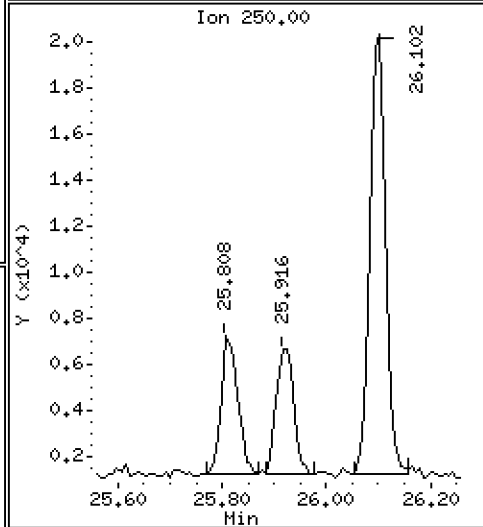
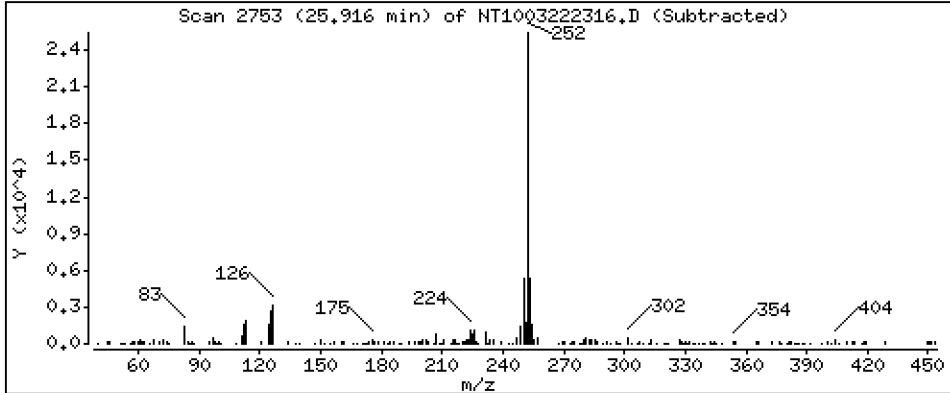
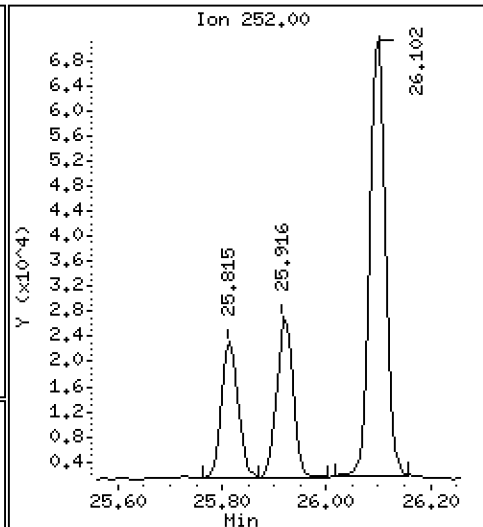
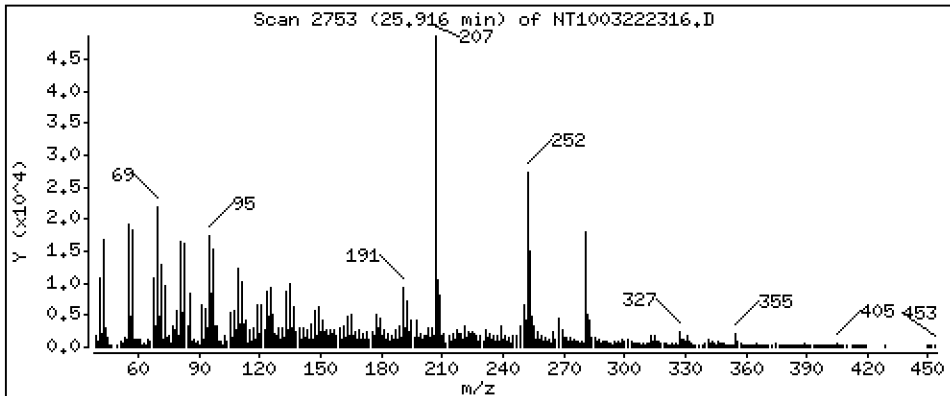
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,3093 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

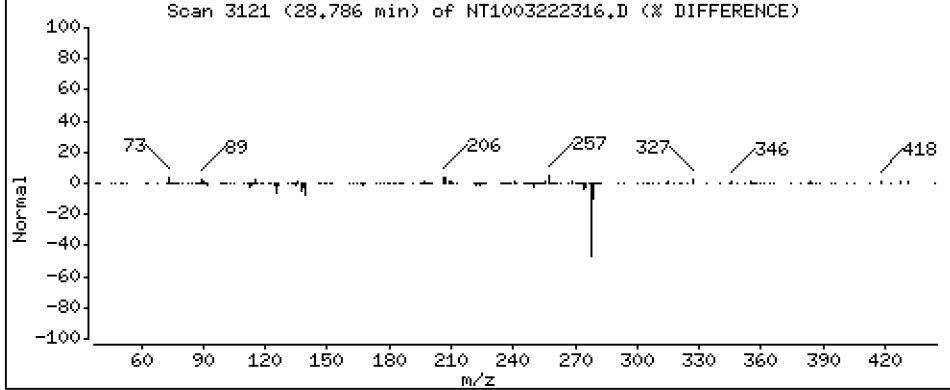
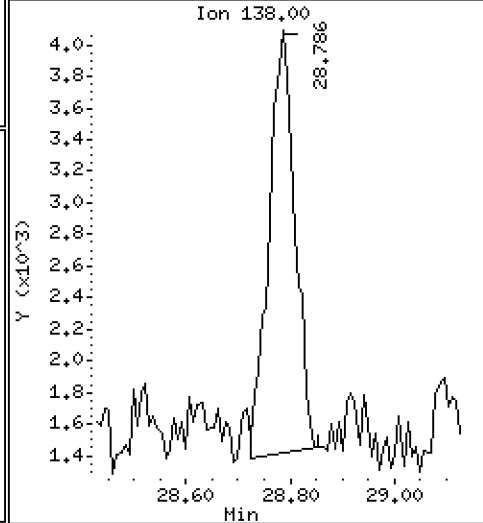
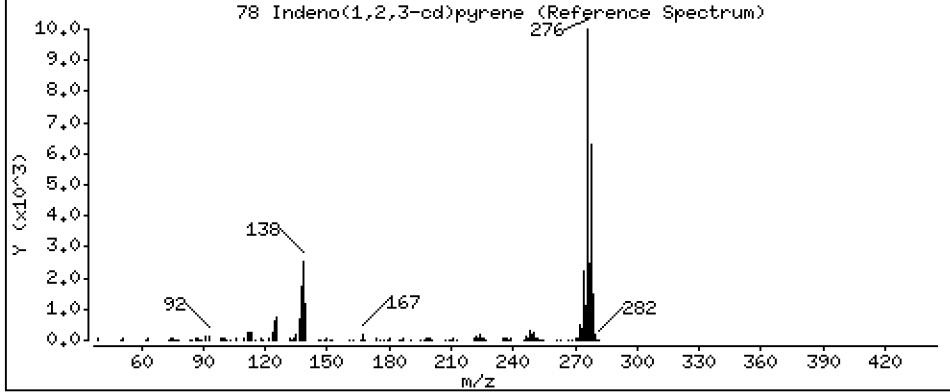
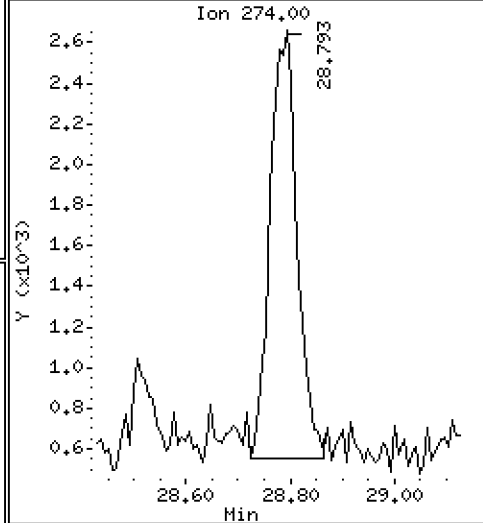
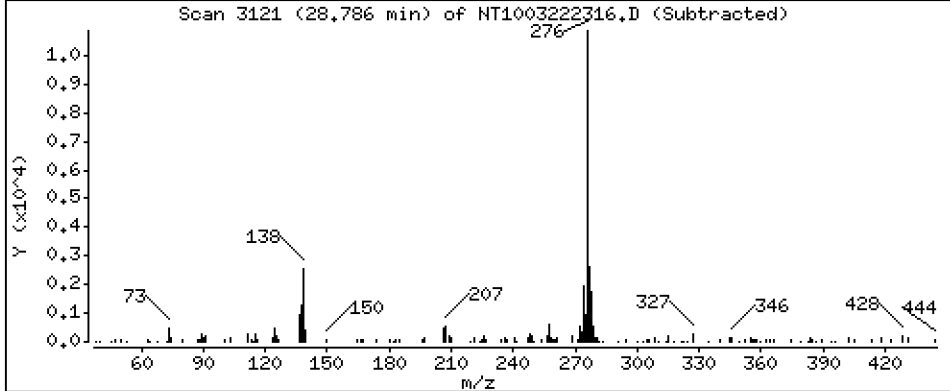
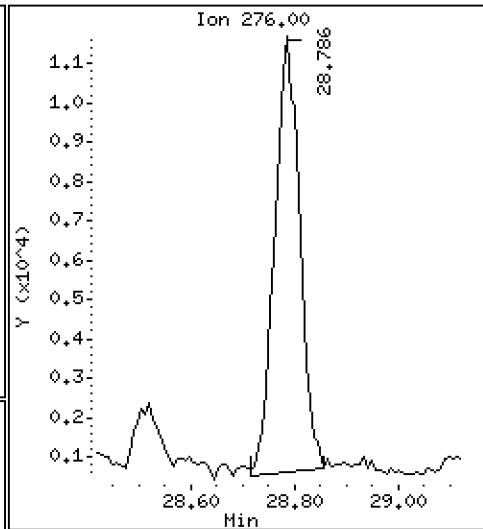
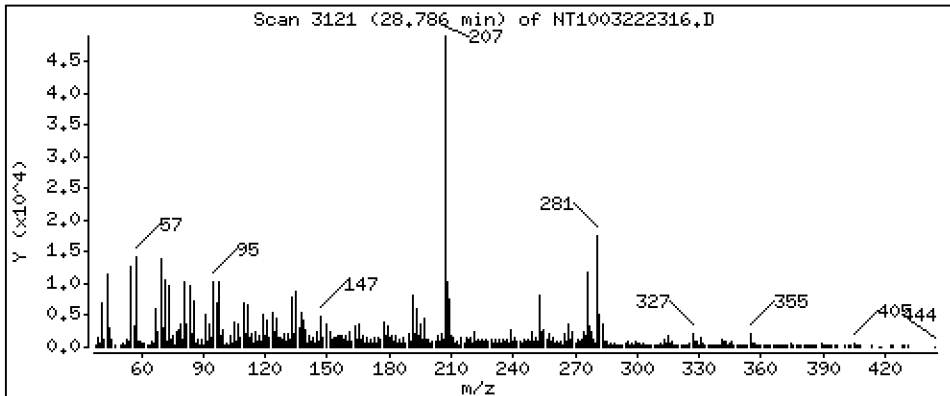
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,1638 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

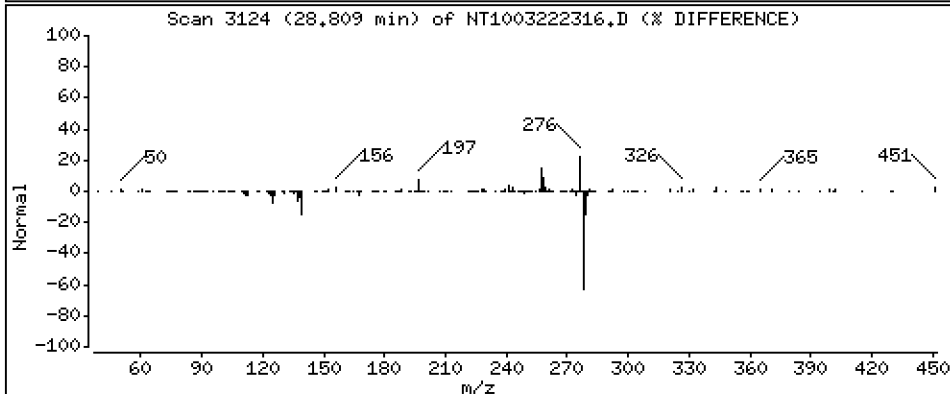
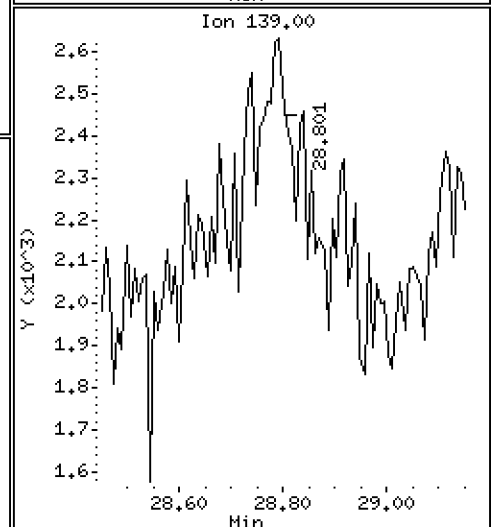
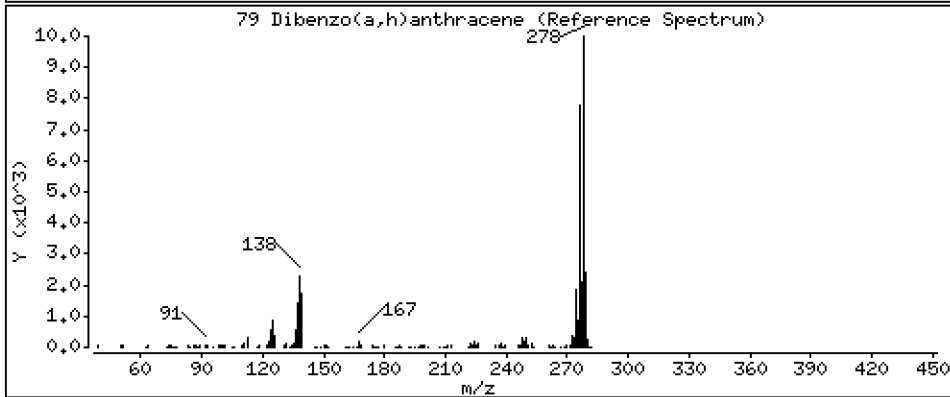
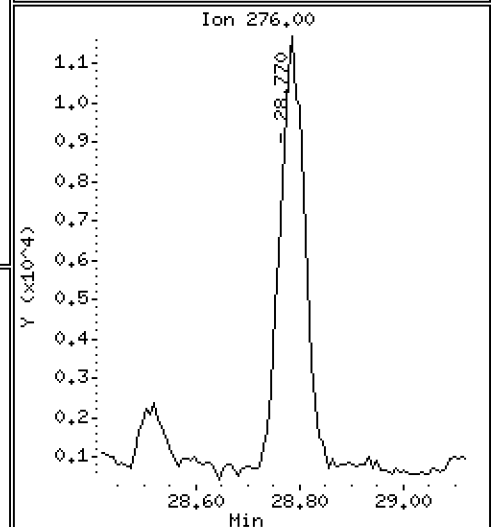
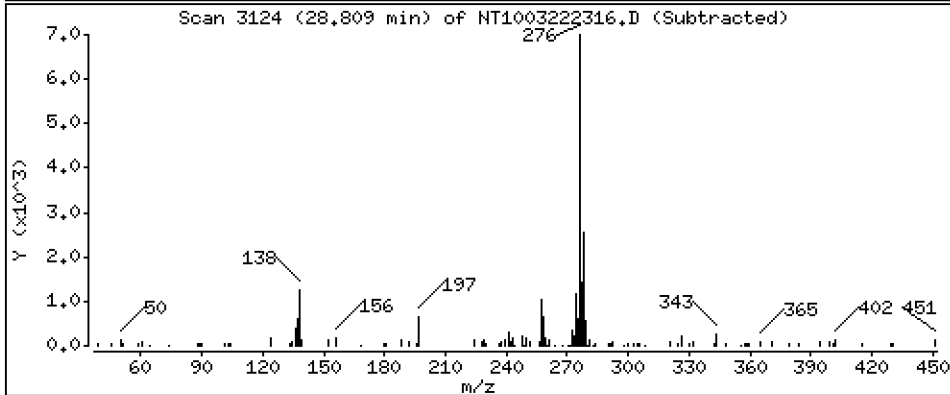
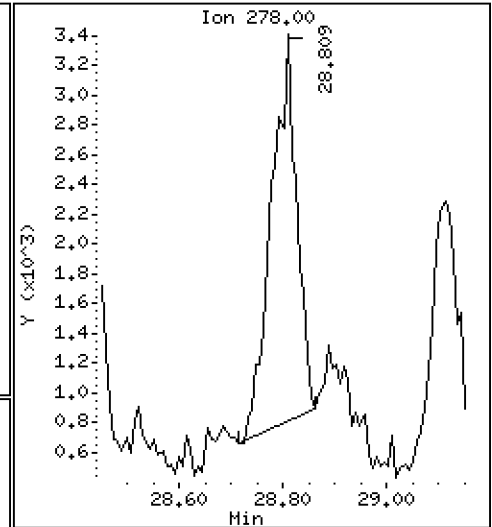
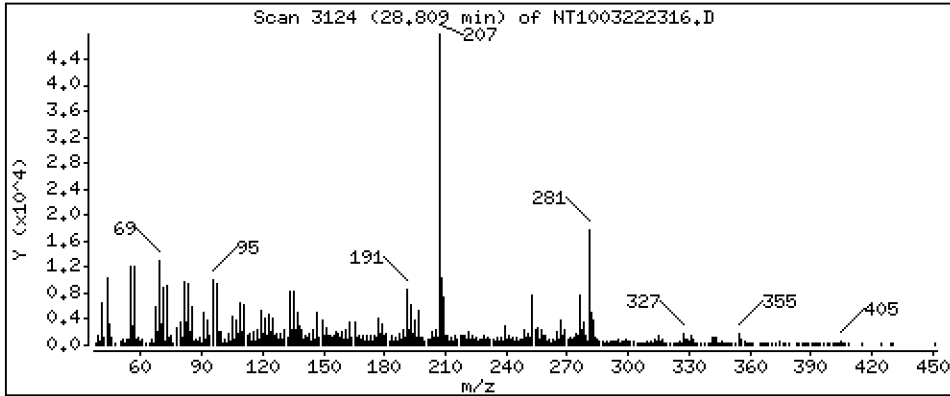
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,04630 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

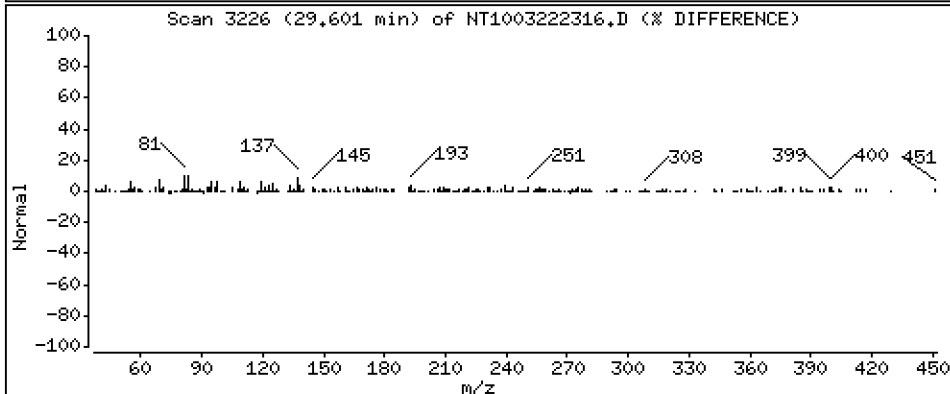
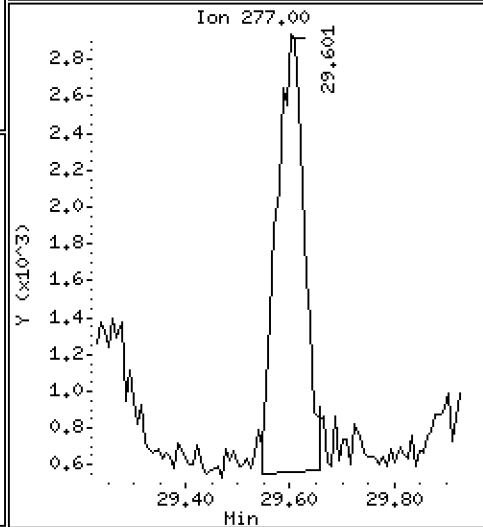
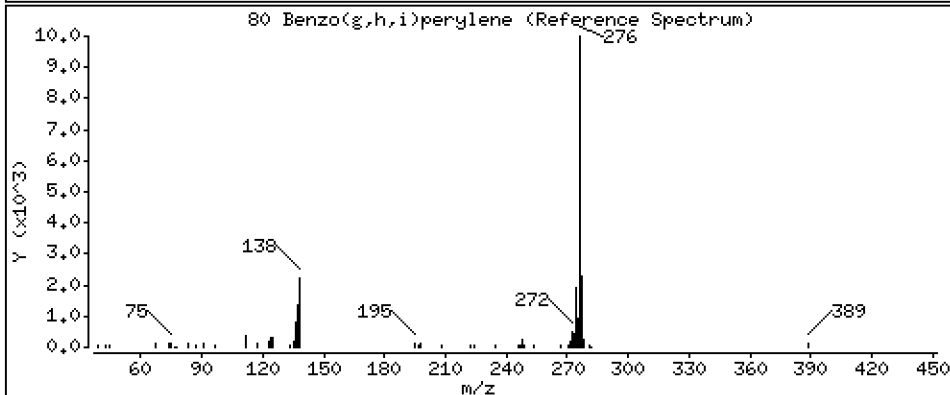
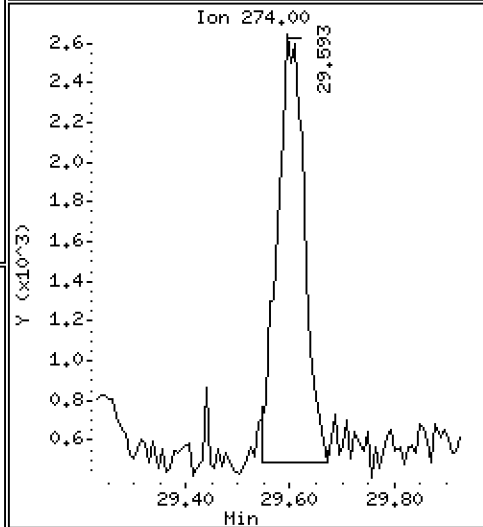
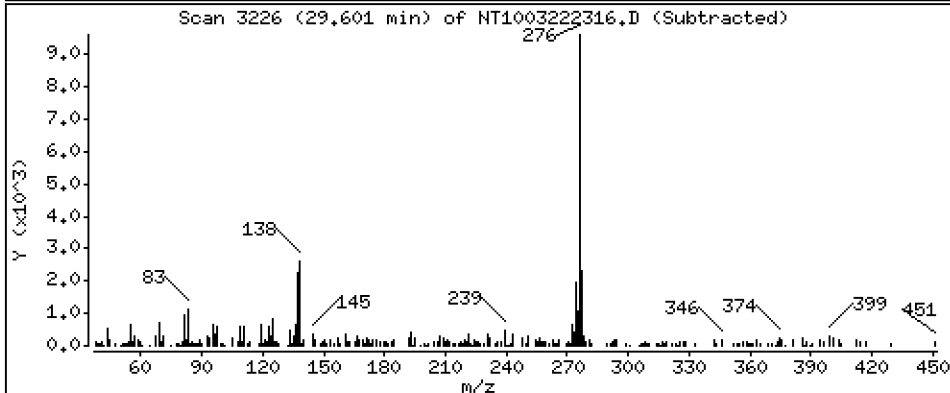
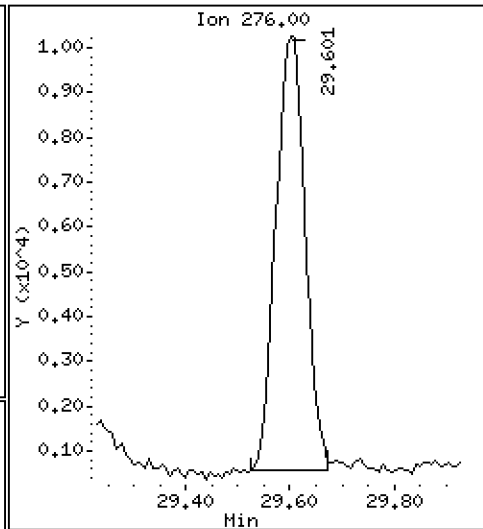
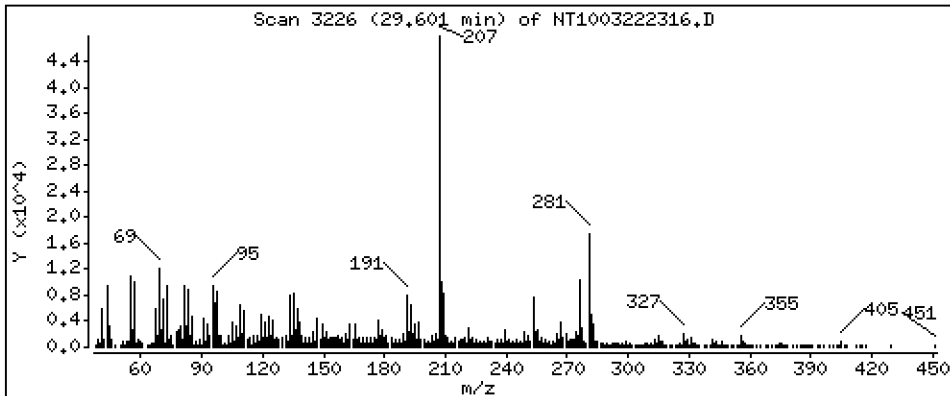
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,1940 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

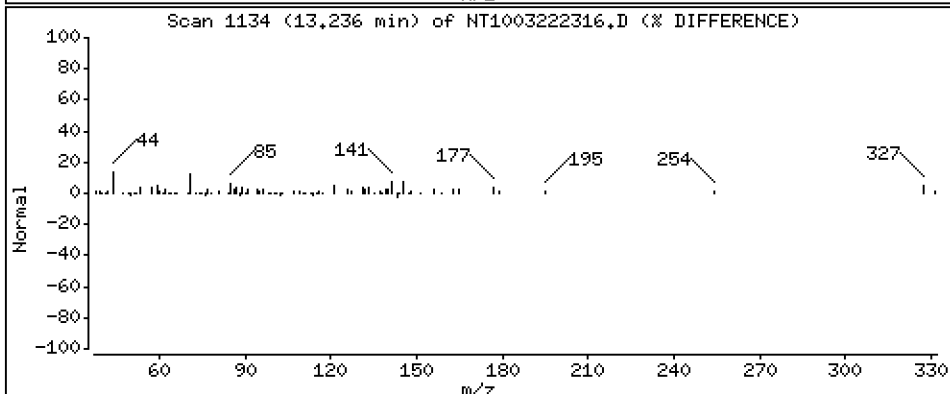
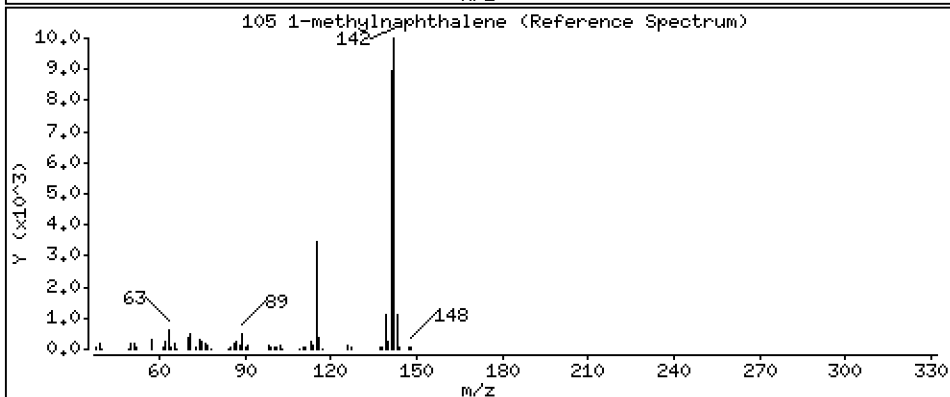
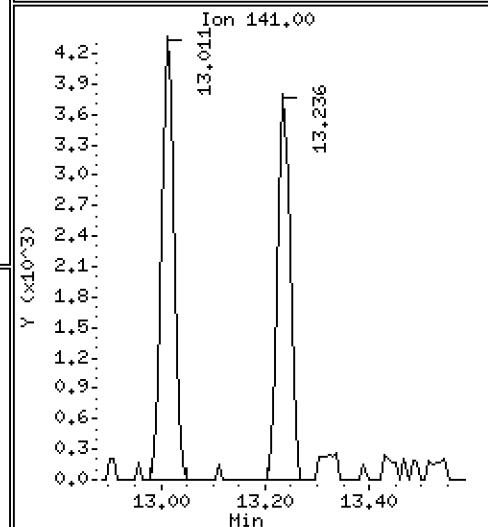
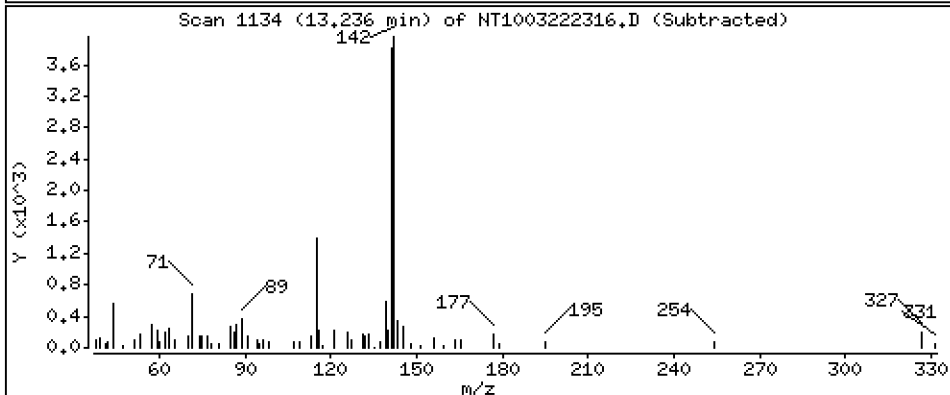
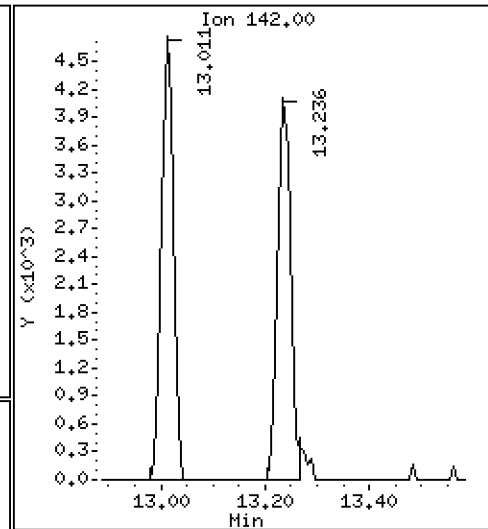
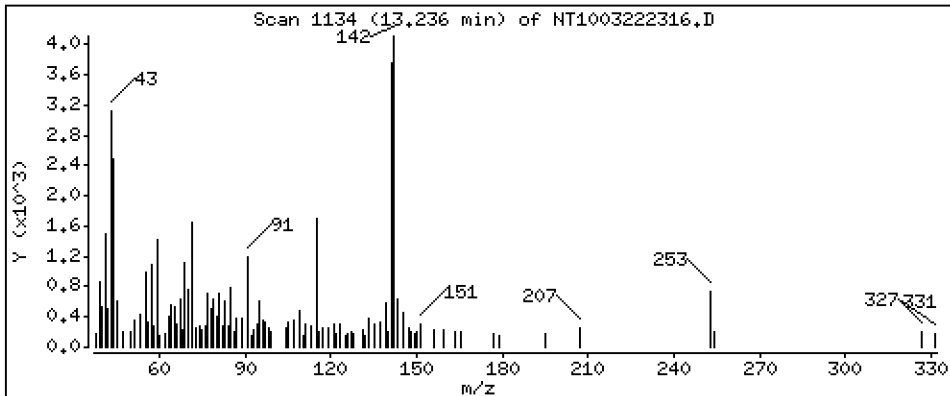
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,06686 ug/mL



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07RE1

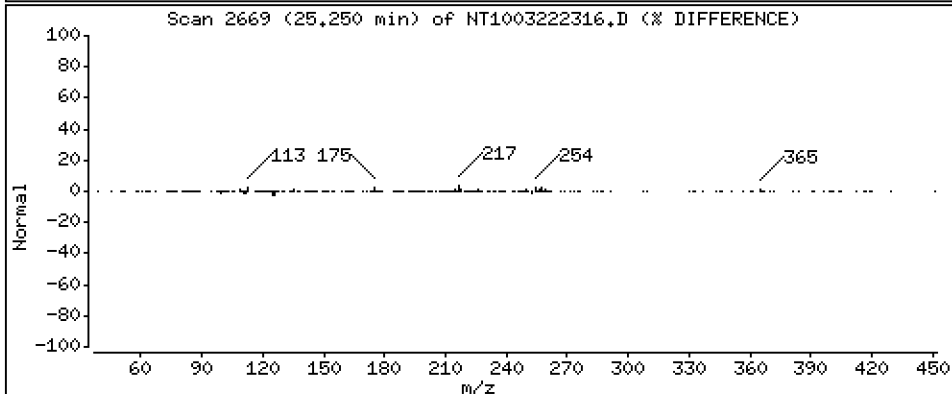
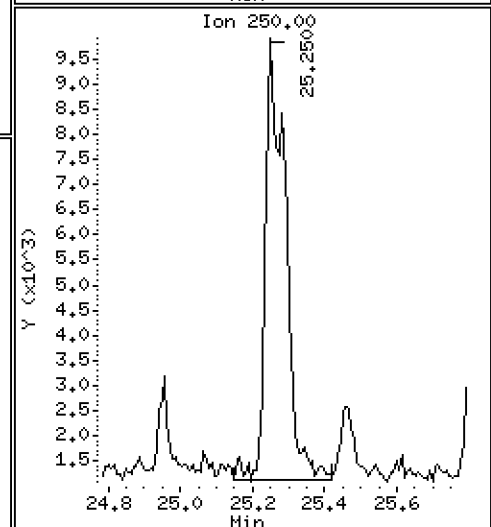
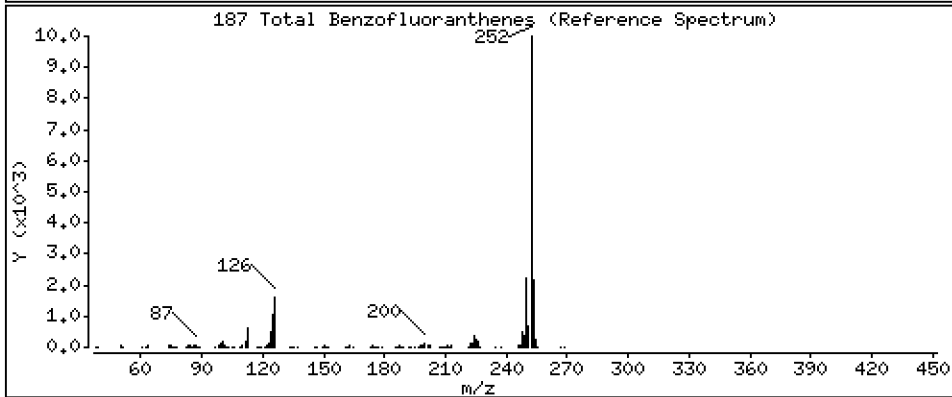
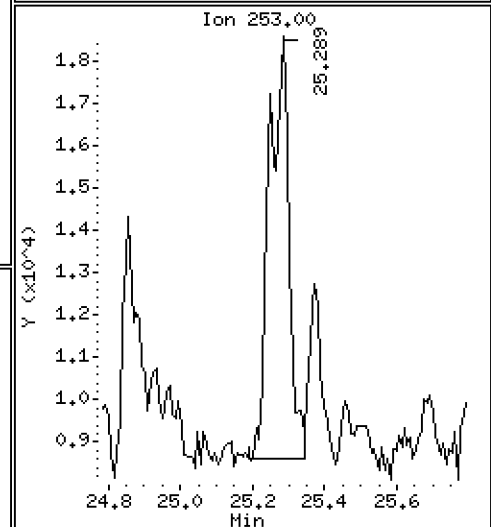
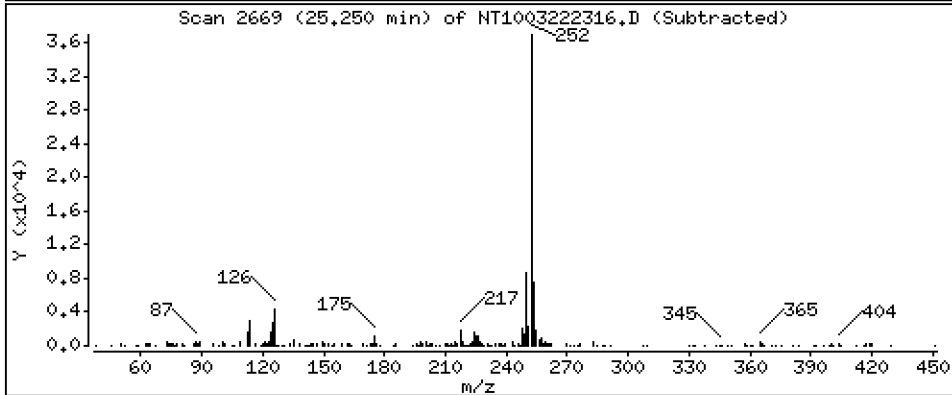
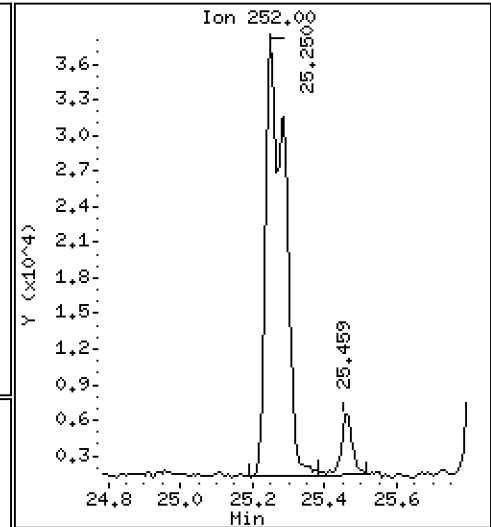
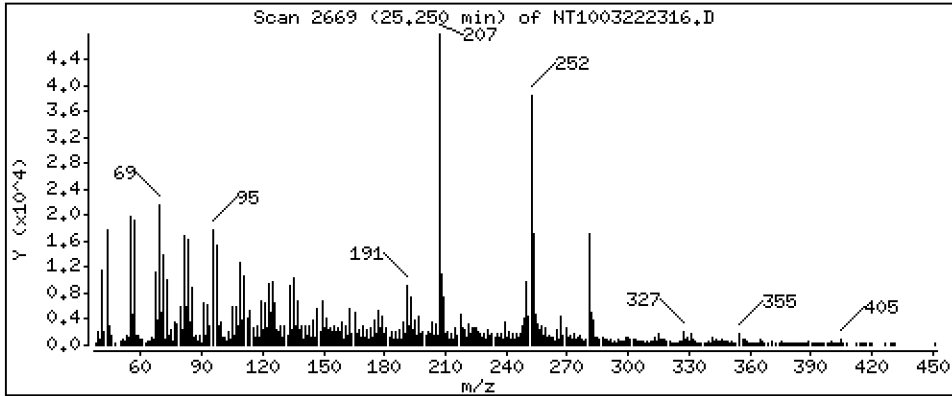
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,7018 ug/mL





ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222316.D  
 Lab Smp Id: 23A0179-07RE1  
 Inj Date : 23-MAR-2023 02:37  
 Operator : VTS  
 Smp Info : 23A0179-07RE1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 07:55 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 16  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |            |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|------------|
|                                 |       |     |                        |        |         |          | ON-COLUMN      | FINAL      |
|                                 | MASS  |     |                        |        |         |          | (ug/mL)        | (ug/mL)    |
| \$ 1 2-Fluorophenol             | 112   |     | 6.859                  | 6.851  | (0.755) | 290856   | 5.97065        | 5.971      |
| \$ 2 Phenol-d5                  | 99    |     | 8.451                  | 8.450  | (0.930) | 389622   | 6.09681        | 6.097      |
| 3 Phenol                        | 94    |     | 8.474                  | 8.473  | (0.933) | 25681    | 0.38671        | 0.3867     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.721                  | 8.721  | (0.960) | 356924   | 6.54053        | 6.541      |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | Compound Not Detected. |        |         |          |                |            |
| 6 2-Chlorophenol                | 128   |     | Compound Not Detected. |        |         |          |                |            |
| 7 1,3-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |            |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.085                  | 9.084  | (1.000) | 161086   | 4.00000        |            |
| 9 1,4-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |            |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.442                  | 9.449  | (1.039) | 155517   | 3.96824        | 3.968      |
| 12 1,2-Dichlorobenzene          | 146   |     | Compound Not Detected. |        |         |          |                |            |
| 11 Benzyl alcohol               | 108   |     | Compound Not Detected. |        |         |          |                |            |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | Compound Not Detected. |        |         |          |                |            |
| 13 2-Methylphenol               | 108   |     | Compound Not Detected. |        |         |          |                |            |
| 17 Hexachloroethane             | 117   |     | Compound Not Detected. |        |         |          |                |            |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | Compound Not Detected. |        |         |          |                |            |
| 15 4-Methylphenol               | 108   |     | 9.869                  | 9.853  | (1.086) | 2484     | 0.04870        | 0.04870    |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.179                 | 10.187 | (0.880) | 240977   | 4.10773        | 4.108      |
| 19 Nitrobenzene                 | 77    |     | Compound Not Detected. |        |         |          |                |            |
| 20 Isophorone                   | 82    |     | Compound Not Detected. |        |         |          |                |            |
| 21 2-Nitrophenol                | 139   |     | Compound Not Detected. |        |         |          |                |            |
| 22 2,4-Dimethylphenol           | 107   |     | Compound Not Detected. |        |         |          |                |            |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | Compound Not Detected. |        |         |          |                |            |
| 24 Benzoic acid                 | 105   |     | 11.003                 | 11.104 | (0.951) | 10212    | 0.34762        | 0.3476 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | Compound Not Detected. |        |         |          |                |            |
| 26 1,2,4-Trichlorobenzene       | 180   |     | Compound Not Detected. |        |         |          |                |            |
| * 27 Naphthalene-d8             | 136   |     | 11.572                 | 11.572 | (1.000) | 581202   | 4.00000        |            |
| 28 Naphthalene                  | 128   |     | 11.619                 | 11.611 | (1.004) | 8819     | 0.05728        | 0.05728    |
| 29 4-Chloroaniline              | 127   |     | Compound Not Detected. |        |         |          |                |            |
| 30 Hexachlorobutadiene          | 225   |     | Compound Not Detected. |        |         |          |                |            |
| 31 4-Chloro-3-methylphenol      | 107   |     | Compound Not Detected. |        |         |          |                |            |
| 32 2-Methylnaphthalene          | 142   |     | 13.011                 | 13.011 | (1.124) | 7208     | 0.06487        | 0.06487    |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                |            |

| Compounds                         | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
|                                   |       |     |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| \$ 36 2-Fluorobiphenyl            | 172   |     | 13.800 | 13.800 | (0.908) | 549368   | 4.34041              | 4.340            |
| 37 2-Chloronaphthalene            | 162   |     |        |        |         |          |                      |                  |
| 38 2-Nitroaniline                 | 65    |     |        |        |         |          |                      |                  |
| 39 Dimethylphthalate              | 163   |     |        |        |         |          |                      |                  |
| 40 Acenaphthylene                 | 152   |     | 14.884 | 14.884 | (0.979) | 6440     | 0.04033              | 0.04033          |
| 41 2,6-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| * 42 Acenaphthene-d10             | 164   |     | 15.201 | 15.193 | (1.000) | 319968   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 44 Acenaphthene                   | 153   |     | 15.263 | 15.263 | (1.004) | 3965     | 0.04019              | 0.04019          |
| 45 2,4-Dinitrophenol              | 184   |     |        |        |         |          |                      |                  |
| 46 Dibenzofuran                   | 168   |     | 15.595 | 15.595 | (1.026) | 7718     | 0.05305              | 0.05305          |
| 47 4-Nitrophenol                  | 109   |     |        |        |         |          |                      |                  |
| 48 2,4-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| 50 Diethylphthalate               | 149   |     | 16.167 | 16.175 | (1.064) | 18481    | 0.18121              | 0.1812           |
| 49 Fluorene                       | 166   |     | 16.314 | 16.306 | (1.073) | 7974     | 0.06967              | 0.06967          |
| 51 4-Chlorophenyl-phenylether     | 204   |     |        |        |         |          |                      |                  |
| 52 4-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     |        |        |         |          |                      |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     |        |        |         |          |                      |                  |
| \$ 55 2,4,6-Tribromophenol        | 330   |     | 16.846 | 16.846 | (1.108) | 135377   | 9.10107              | 9.101            |
| 56 4-Bromophenyl-phenylether      | 248   |     |        |        |         |          |                      |                  |
| 57 Hexachlorobenzene              | 284   |     |        |        |         |          |                      |                  |
| 58 Pentachlorophenol              | 266   |     |        |        |         |          |                      |                  |
| * 59 Phenanthrene-d10             | 188   |     | 18.261 | 18.253 | (1.000) | 603781   | 4.00000              |                  |
| 60 Phenanthrene                   | 178   |     | 18.299 | 18.299 | (1.002) | 38720    | 0.23518              | 0.2352           |
| 61 Anthracene                     | 178   |     | 18.400 | 18.392 | (1.008) | 21183    | 0.13413              | 0.1341           |
| 62 Carbazole                      | 167   |     | 18.740 | 18.725 | (1.026) | 4549     | 0.03214              | 0.03214          |
| 63 Di-n-butylphthalate            | 149   |     |        |        |         |          |                      |                  |
| 64 Fluoranthene                   | 202   |     | 20.752 | 20.705 | (0.889) | 80660    | 0.37631              | 0.3763           |
| 65 Pyrene                         | 202   |     | 21.146 | 21.131 | (0.906) | 135920   | 0.61816              | 0.6182           |
| \$ 66 Terphenyl-d14               | 244   |     | 21.433 | 21.425 | (0.918) | 732305   | 4.43486              | 4.435            |
| 67 Butylbenzylphthalate           | 149   |     |        |        |         |          |                      |                  |
| 68 Benzo(a)anthracene             | 228   |     | 23.322 | 23.314 | (0.999) | 53348    | 0.28333              | 0.2833           |
| * 69 Chrysene-d12                 | 240   |     | 23.353 | 23.345 | (1.000) | 533437   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     |        |        |         |          |                      |                  |
| 71 Chrysene                       | 228   |     | 23.392 | 23.392 | (1.002) | 58743    | 0.31934              | 0.3193           |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 23.415 | 23.407 | (0.959) | 22260    | 0.16483              | 0.1648           |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 24.421 | 24.413 | (1.000) | 923370   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149   |     | 24.437 | 24.429 | (1.001) | 2656     | 0.01099              | 0.01099          |
| 74 Benzo(b)fluoranthene           | 252   |     | 25.250 | 25.242 | (0.969) | 70726    | 0.35170              | 0.3517           |
| 75 Benzo(k)fluoranthene           | 252   |     | 25.288 | 25.288 | (0.971) | 74394    | 0.36433              | 0.3643 (M)       |
| 76 Benzo(a)pyrene                 | 252   |     | 25.916 | 25.908 | (0.995) | 55615    | 0.30933              | 0.3093           |
| * 77 Perylene-d12                 | 264   |     | 26.047 | 26.024 | (1.000) | 620378   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 28.785 | 28.769 | (1.105) | 37458    | 0.16376              | 0.1638           |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 28.808 | 28.800 | (1.106) | 8792     | 0.04630              | 0.04630 (M)      |
| 80 Benzo(g,h,i)perylene           | 276   |     | 29.601 | 29.577 | (1.136) | 38409    | 0.19403              | 0.1940           |
| 90 N-Nitrosodimethylamine         | 74    |     |        |        |         |          |                      |                  |
| 91 Aniline                        | 93    |     |        |        |         |          |                      |                  |
| 93 Benzidine                      | 184   |     |        |        |         |          |                      |                  |
| 103 Pyridine                      | 79    |     |        |        |         |          |                      |                  |
| 105 1-methylnaphthalene           | 142   |     | 13.235 | 13.235 | (1.144) | 6807     | 0.06686              | 0.06686          |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     |        |        |         |          |                      |                  |

| Compounds                     | QUANT SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |  |
|-------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|--|
|                               |           |                        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |  |
| 187 Total Benzofluoranthenes  | 252       | 25.250                 | 25.288 | (0.969) | 136256   | 0.70176              | 0.7018           |  |
| 120 2,3,4,6-Tetrachlorophenol | 232       | Compound Not Detected. |        |         |          |                      |                  |  |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 22-MAR-2023  
 Lab File ID: NT1003222316.D Calibration Time: 17:42  
 Lab Smp Id: 23A0179-07RE1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 122478   | 61239      | 244956  | 161086 | 31.52 |
| 27 Naphthalene-d8     | 459261   | 229631     | 918522  | 581202 | 26.55 |
| 42 Acenaphthene-d10   | 264106   | 132053     | 528212  | 319968 | 21.15 |
| 59 Phenanthrene-d10   | 503255   | 251628     | 1006510 | 603781 | 19.98 |
| 69 Chrysene-d12       | 437735   | 218868     | 875470  | 533437 | 21.86 |
| 134 Di-n-octylphthala | 700191   | 350096     | 1400382 | 923370 | 31.87 |
| 77 Perylene-d12       | 499049   | 249525     | 998098  | 620378 | 24.31 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.08     | 8.58     | 9.58  | 9.09   | 0.00  |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.57  | 0.00  |
| 42 Acenaphthene-d10   | 15.19    | 14.69    | 15.69 | 15.20  | 0.05  |
| 59 Phenanthrene-d10   | 18.25    | 17.75    | 18.75 | 18.26  | 0.04  |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.35  | 0.03  |
| 134 Di-n-octylphthala | 24.41    | 23.91    | 24.91 | 24.42  | 0.03  |
| 77 Perylene-d12       | 26.02    | 25.52    | 26.52 | 26.05  | 0.09  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222316.D

Lab ID: 23A0179-07RE1  
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 02:37

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND     |
|-------|---------|---------|--------------|
| 0.951 | 0.960   | -0.0088 | Benzoic acid |

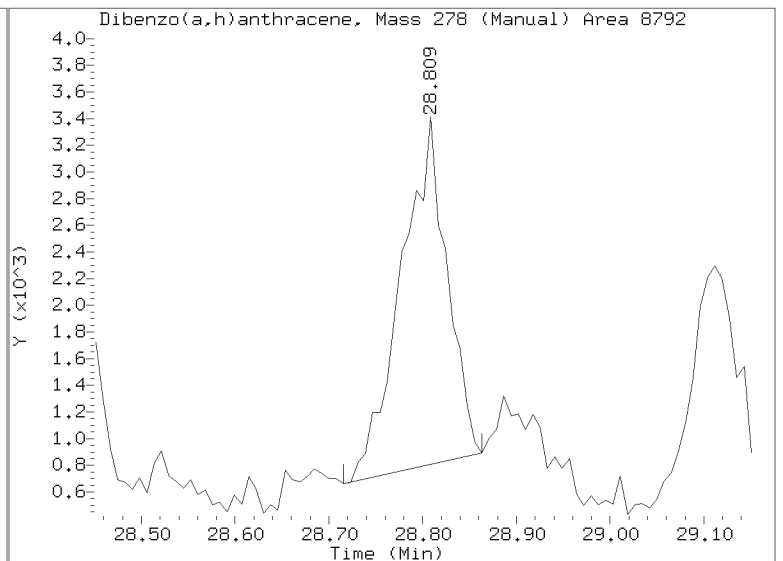
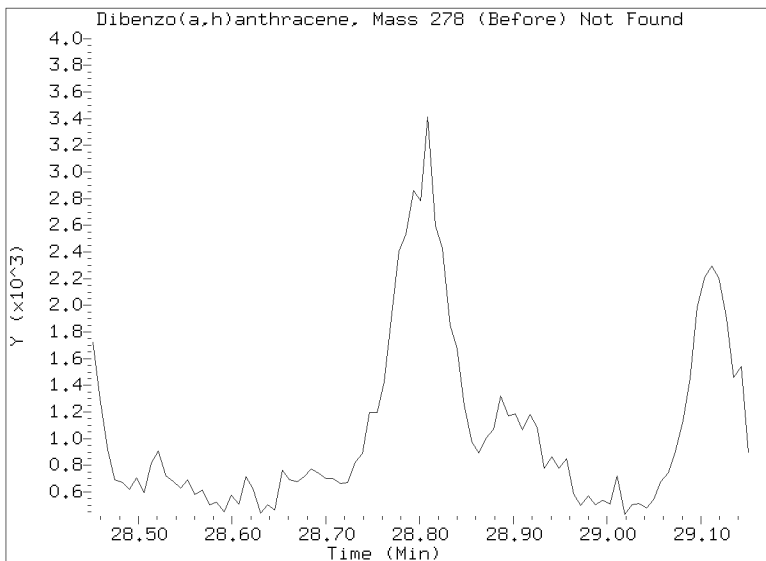
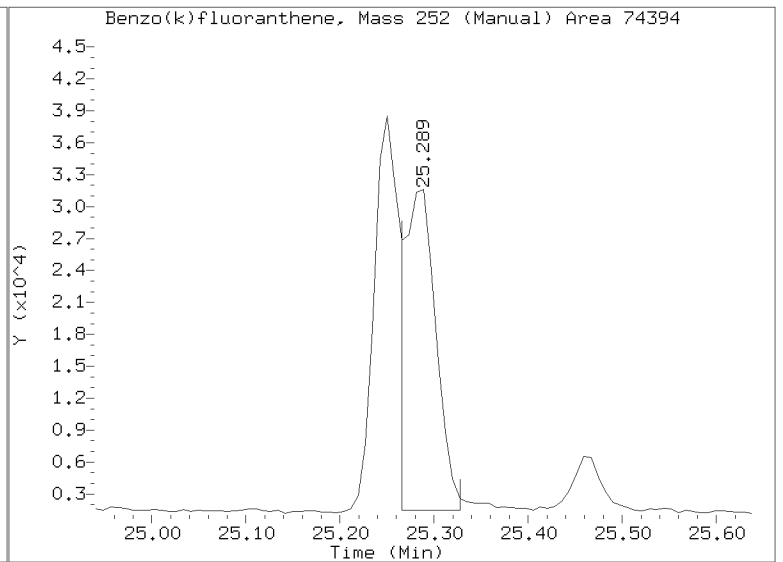
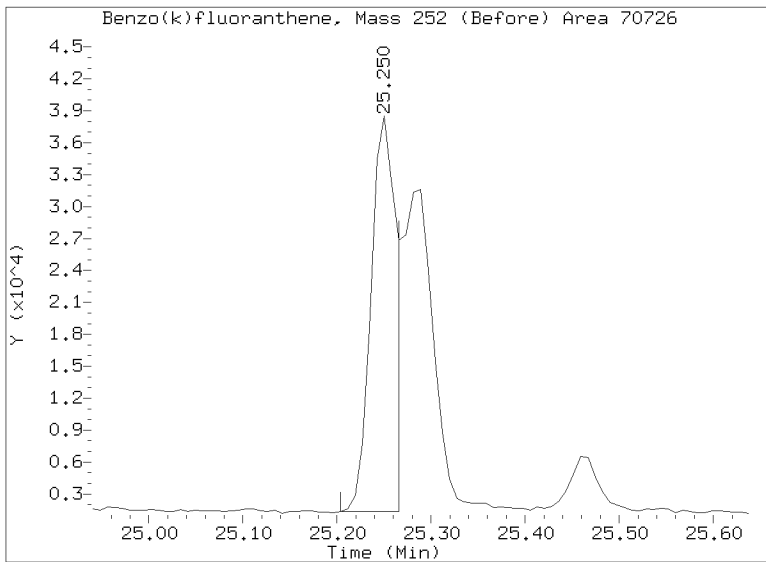
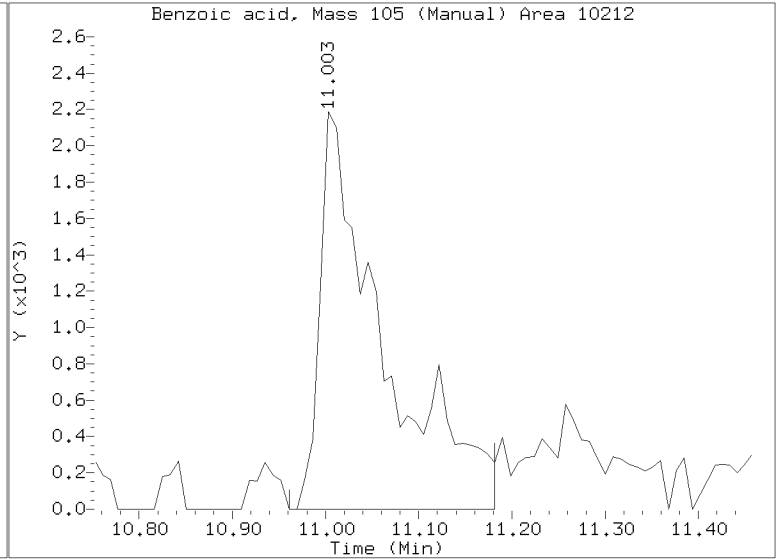
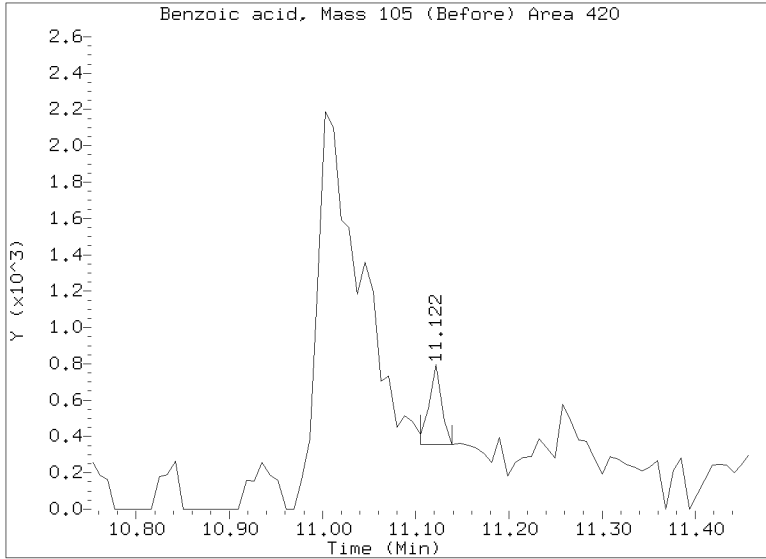
RRT check based on Ccal File: NT1003222302.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222316.D  
Injection Date: 23-MAR-2023 02:37  
Lab ID:23A0179-07RE1 Client ID:  
Report Date: 03/25/2023 07:57





Form I  
ORGANIC ANALYSIS DATA SHEET  
EPA 8270E  
Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-08RE1 A

SDG: 23A0179

Sampled: 01/10/23 10:56

Prepared: 03/17/23 11:16

File ID: NT1003222324.D

% Solids: 61.36

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 07:39

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 16.39 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| CAS NO.  | COMPOUND                    | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|-----------------------------|----------|----------------------|---|------|------|
| 108-95-2 | Phenol                      | 1        | 546                  |   | 4.4  | 19.9 |
| 106-44-5 | 4-Methylphenol              | 1        | 63.2                 |   | 7.3  | 19.9 |
| 91-20-3  | Naphthalene                 | 1        | 11.2                 | J | 4.2  | 19.9 |
| 91-57-6  | 2-Methylnaphthalene         | 1        | 9.4                  | J | 4.5  | 19.9 |
| 208-96-8 | Acenaphthylene              | 1        | 7.1                  | J | 6.2  | 19.9 |
| 131-11-3 | Dimethylphthalate           | 1        | 19.9                 | U | 4.4  | 19.9 |
| 83-32-9  | Acenaphthene                | 1        | 11.5                 | J | 5.2  | 19.9 |
| 132-64-9 | Dibenzofuran                | 1        | 19.9                 | U | 14.0 | 19.9 |
| 86-73-7  | Fluorene                    | 1        | 19.9                 | U | 14.5 | 19.9 |
| 85-01-8  | Phenanthrene                | 1        | 69.9                 |   | 8.7  | 19.9 |
| 120-12-7 | Anthracene                  | 1        | 30.8                 |   | 7.1  | 19.9 |
| 206-44-0 | Fluoranthene                | 1        | 137                  |   | 6.1  | 19.9 |
| 129-00-0 | Pyrene                      | 1        | 143                  |   | 5.6  | 19.9 |
| 85-68-7  | Butylbenzylphthalate        | 1        | 19.9                 | U | 9.4  | 19.9 |
| 56-55-3  | Benzo(a)anthracene          | 1        | 71.4                 |   | 5.9  | 19.9 |
| 218-01-9 | Chrysene                    | 1        | 101                  |   | 6.0  | 19.9 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate  | 1        | 94.4                 |   | 5.4  | 49.7 |
|          | Benzo(a)fluoranthene, Total | 1        | 185                  |   | 9.9  | 39.8 |
| 50-32-8  | Benzo(a)pyrene              | 1        | 77.2                 |   | 4.2  | 19.9 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene      | 1        | 38.2                 |   | 14.6 | 19.9 |
| 53-70-3  | Dibenzo(a,h)anthracene      | 1        | 19.9                 | U | 17.1 | 19.9 |
| 191-24-2 | Benzo(g,h,i)perylene        | 1        | 40.6                 |   | 13.5 | 19.9 |

| SURROGATES             | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol         | 745.76                | 552                   | 74.1  | 27 - 120  |   |
| Phenol-d5              | 745.76                | 569                   | 76.3  | 29 - 120  |   |
| 2-Chlorophenol-d4      | 745.76                | 599                   | 80.3  | 31 - 120  |   |
| 1,2-Dichlorobenzene-d4 | 497.17                | 364                   | 73.2  | 32 - 120  |   |
| Nitrobenzene-d5        | 497.17                | 382                   | 76.8  | 30 - 120  |   |
| 2-Fluorobiphenyl       | 497.17                | 405                   | 81.5  | 35 - 120  |   |



**Form I**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8270E**  
**Semivolatiles (20ug/kg - 0.2ug/L SepF)**

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-08RE1 A

SDG: 23A0179

Sampled: 01/10/23 10:56

Prepared: 03/17/23 11:16

File ID: NT1003222324.D

% Solids: 61.36

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 07:39

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 16.39 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| SURROGATES           | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------|-----------------------|-----------------------|-------|-----------|---|
| 2,4,6-Tribromophenol | 745.76                | 868                   | 116   | 24 - 134  |   |
| p-Terphenyl-d14      | 497.17                | 414                   | 83.3  | 37 - 120  |   |



Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222324.D

Date: 23-MAR-2023 07:39

Client ID:

Sample Info: 23A0179-08RE1

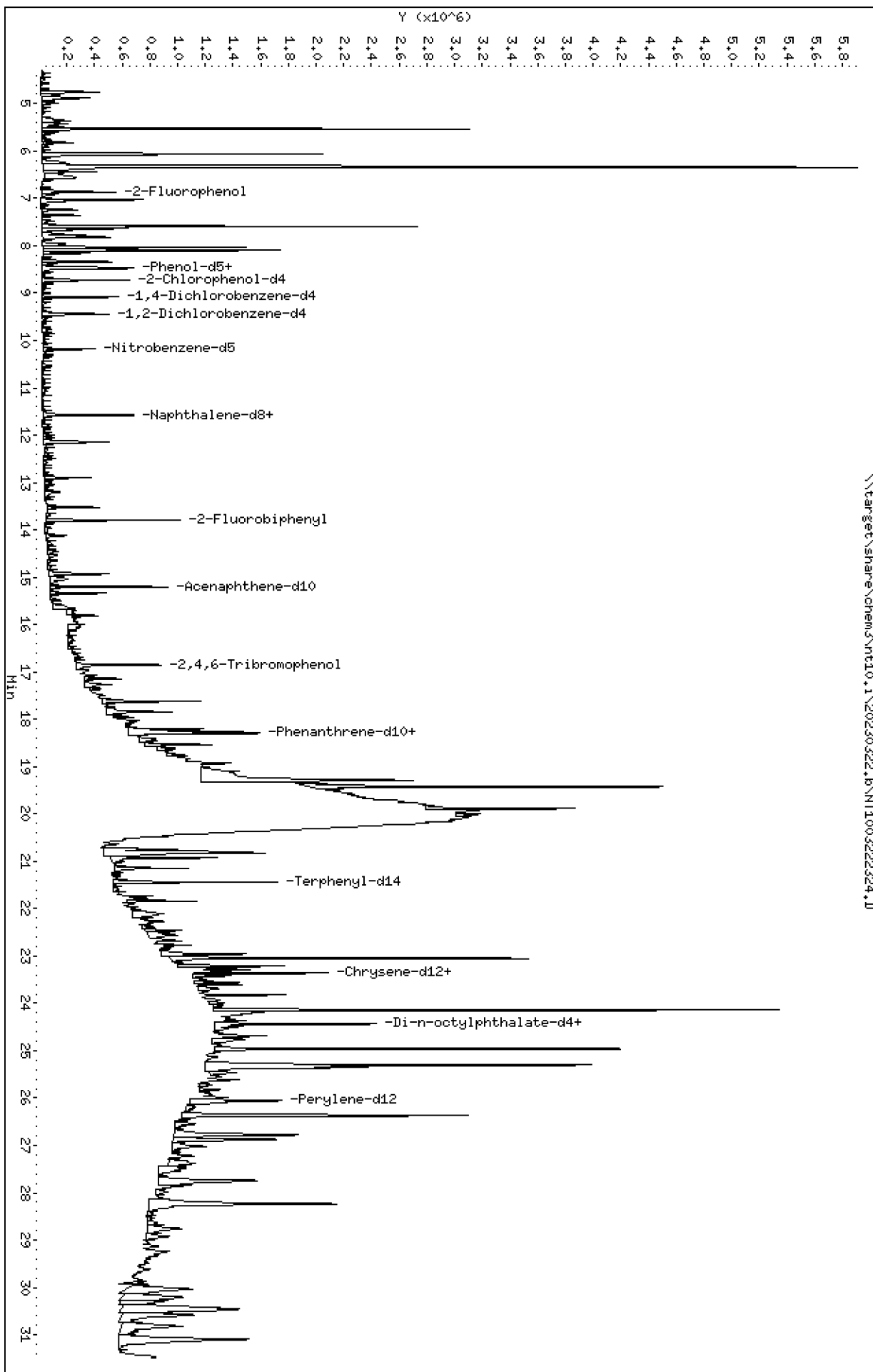
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

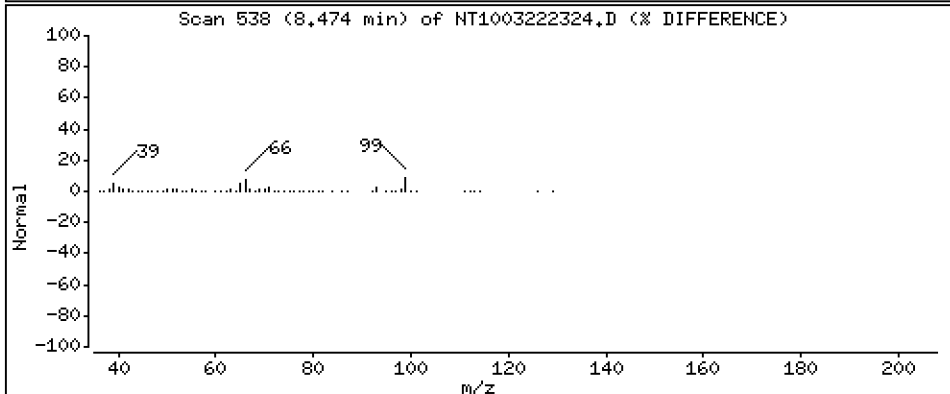
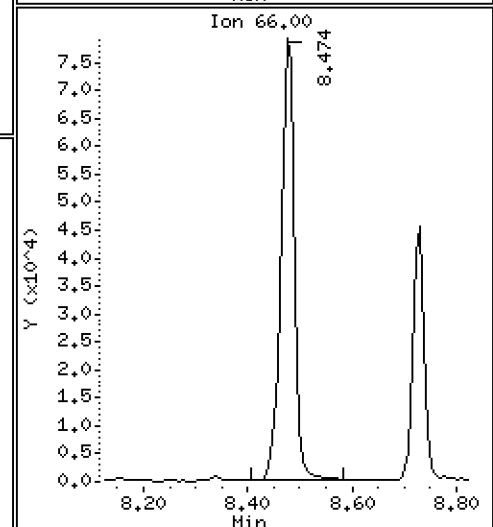
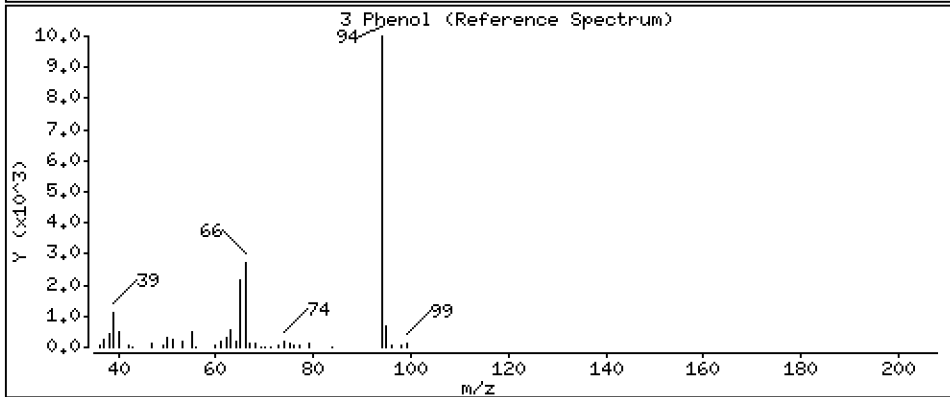
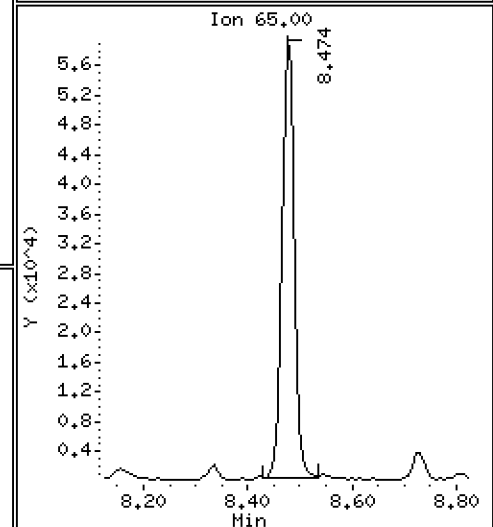
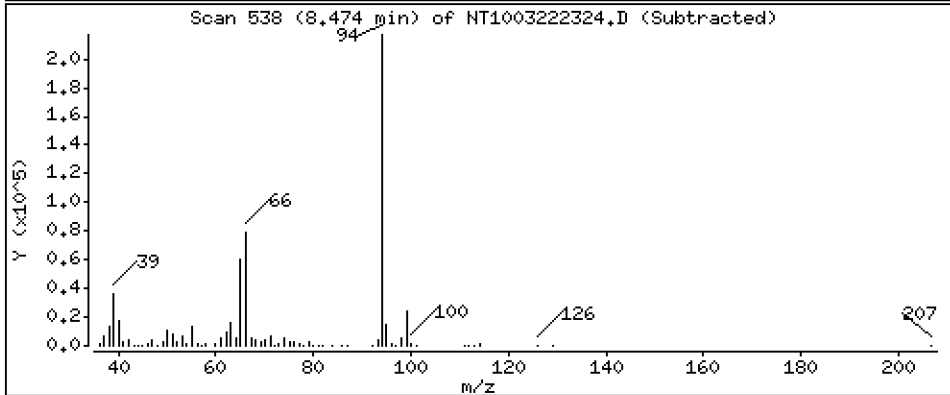
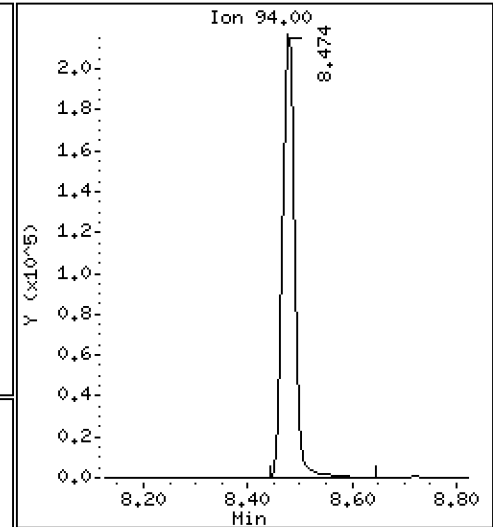
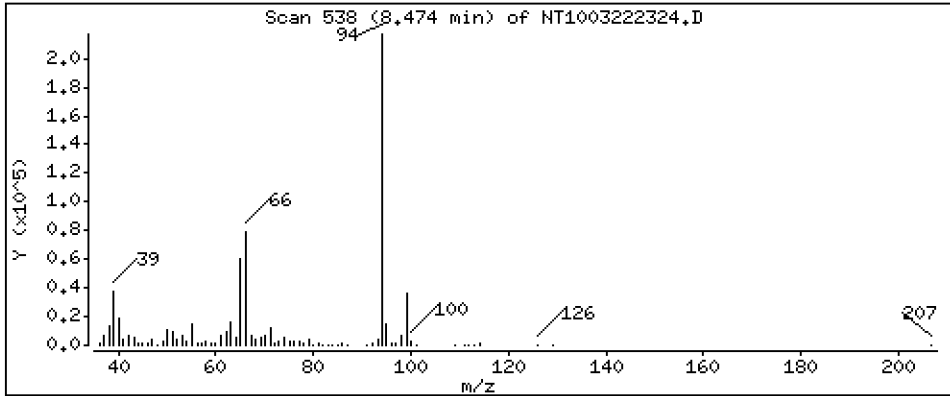
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 5,493 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

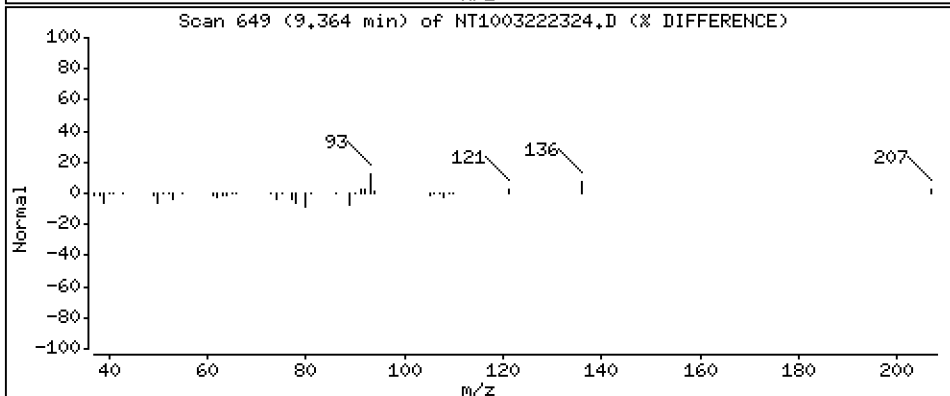
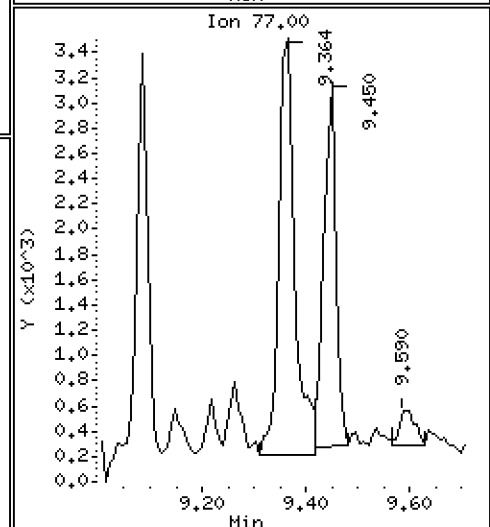
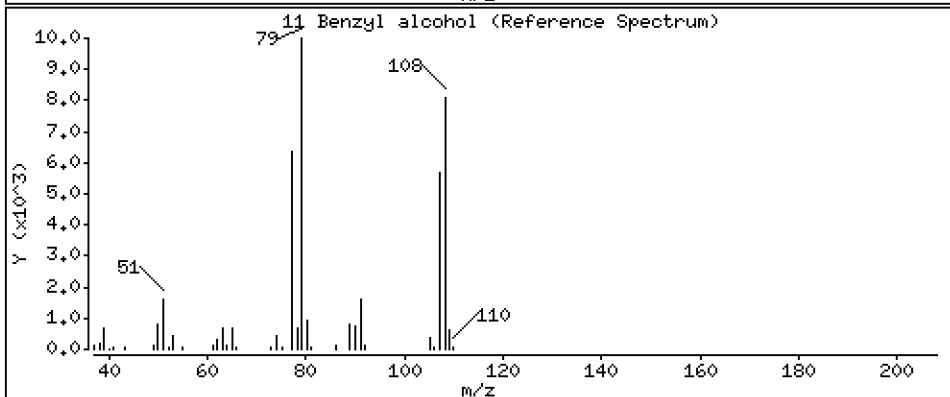
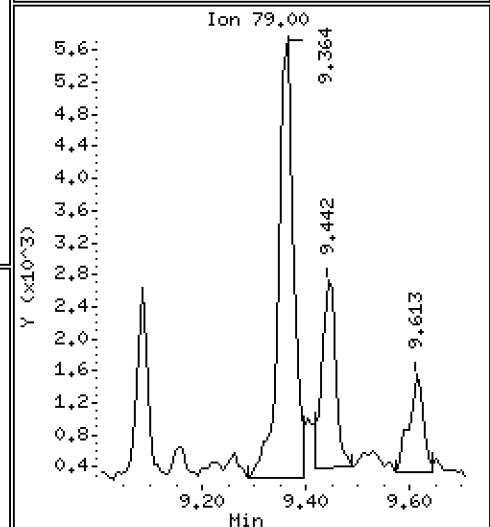
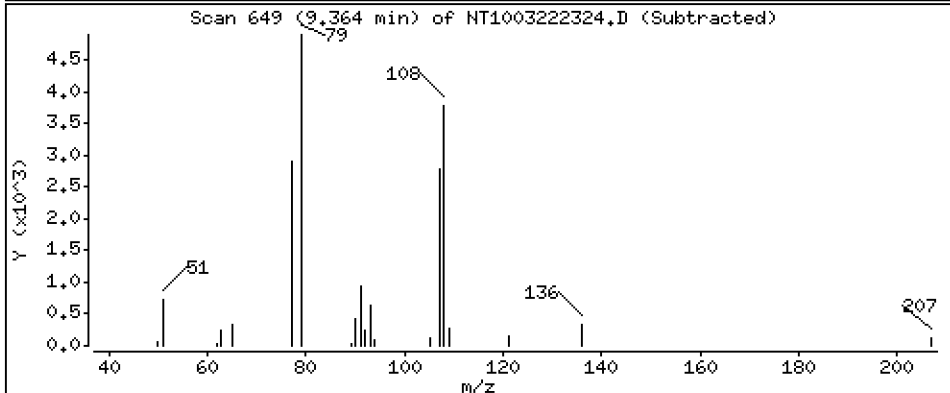
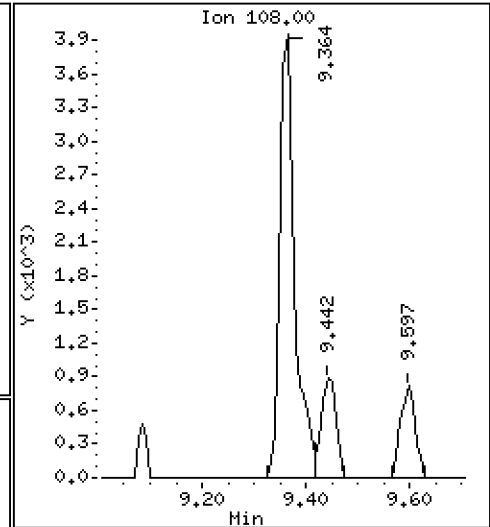
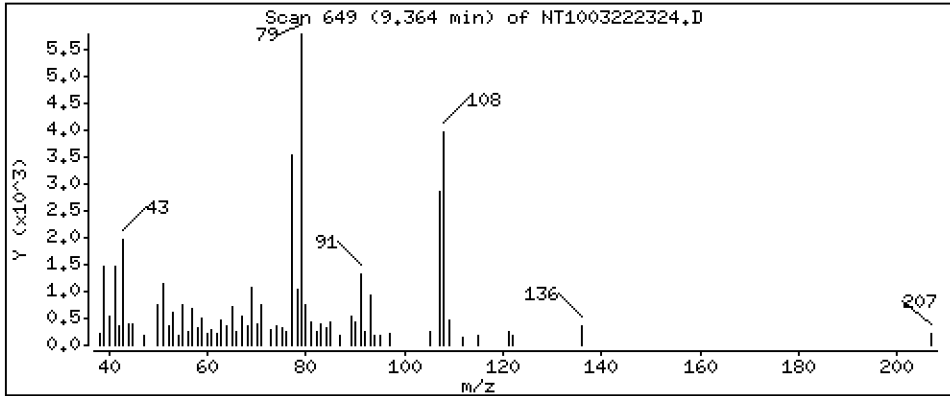
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 0,2627 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

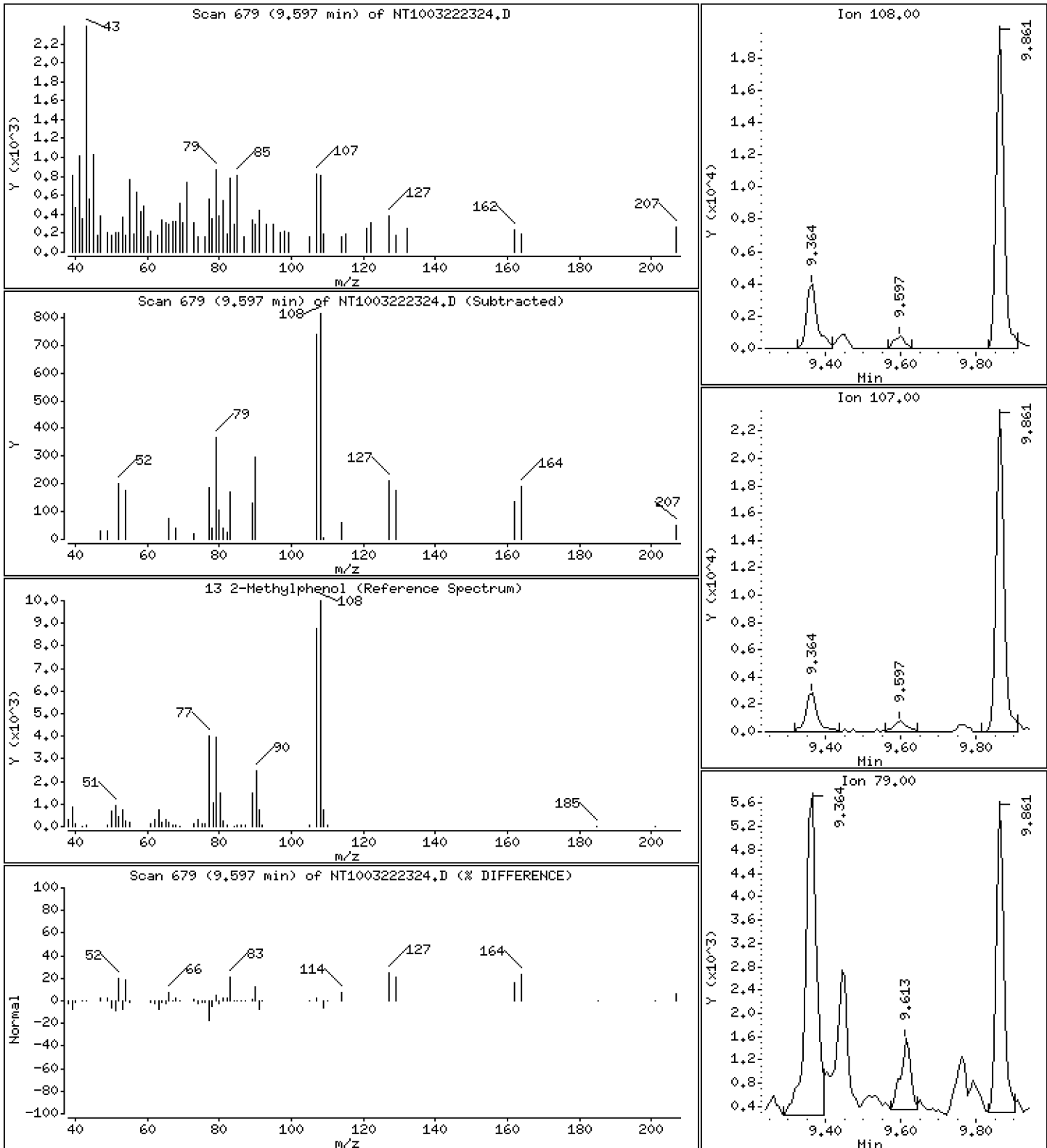
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.03424 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

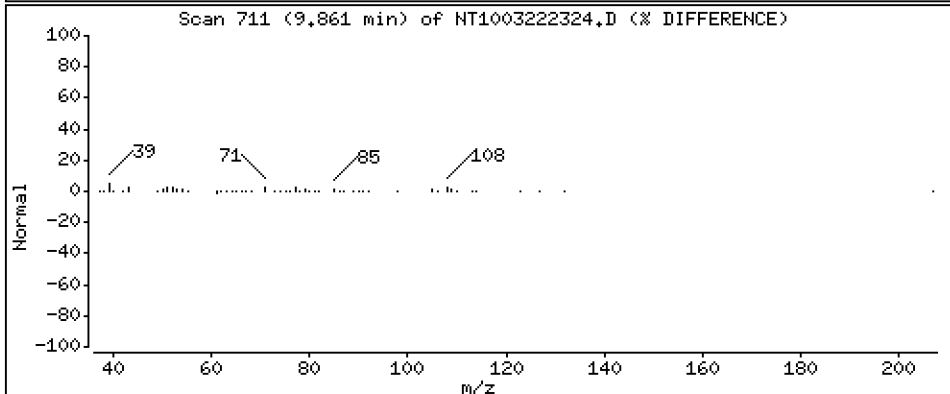
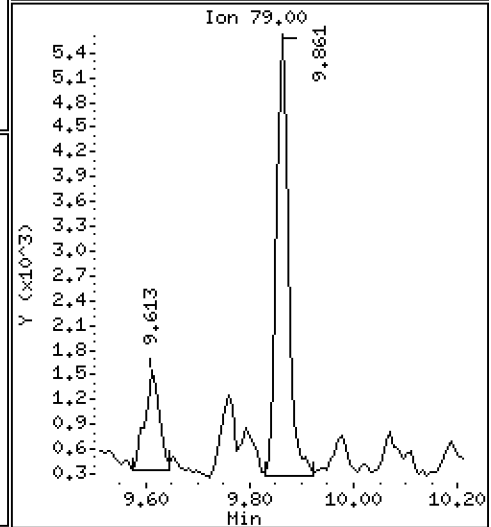
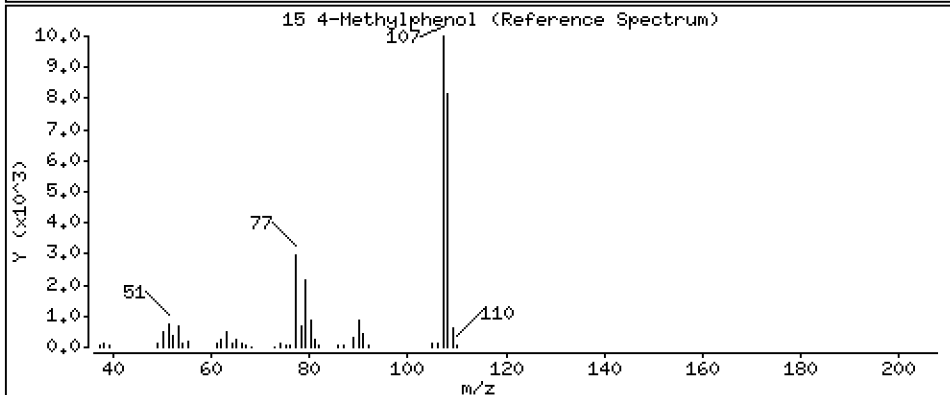
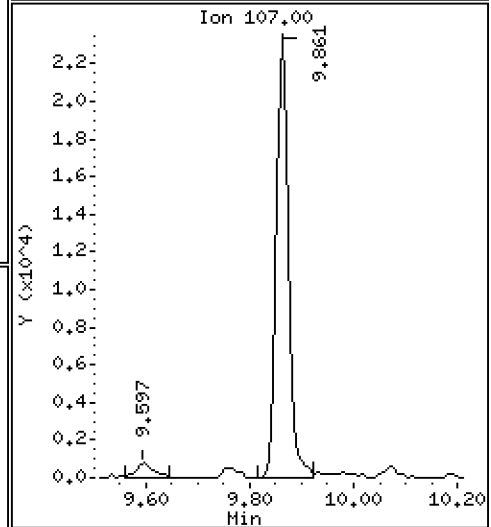
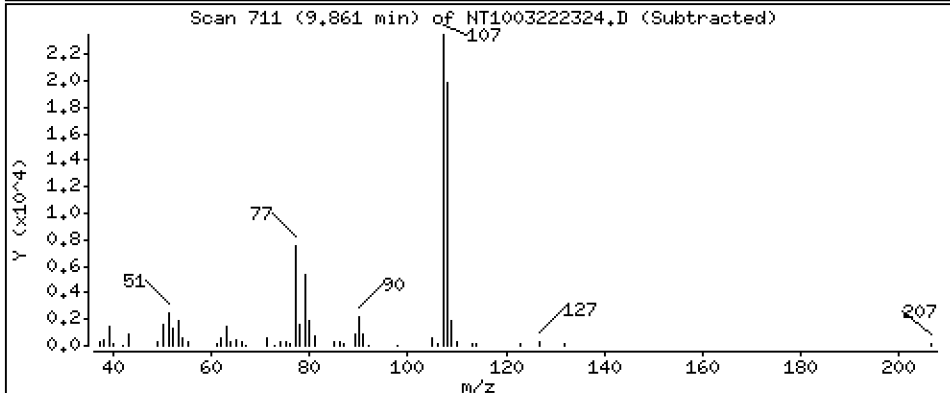
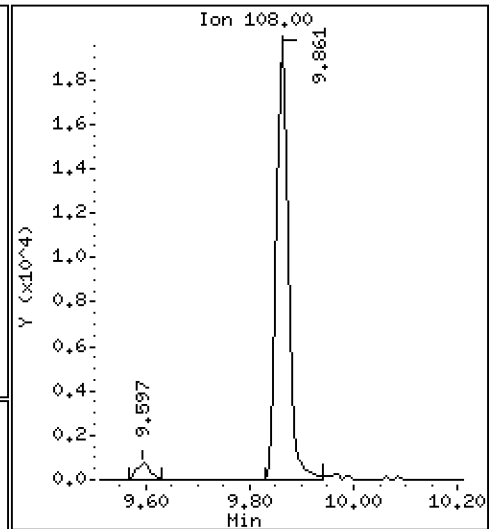
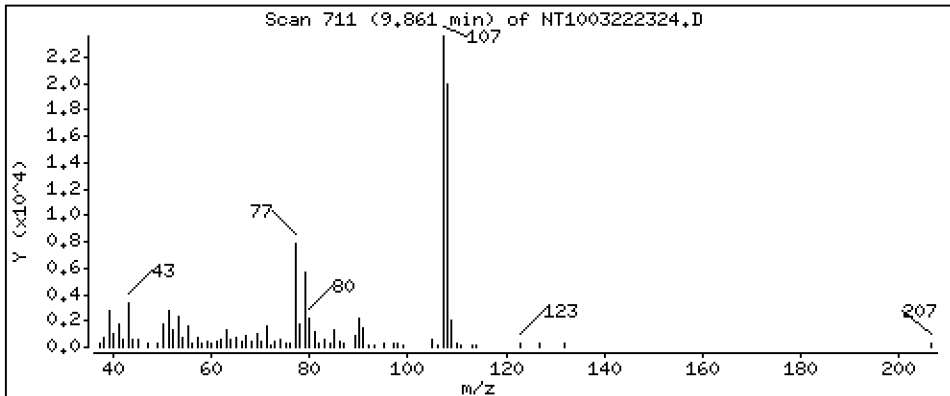
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.6357 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

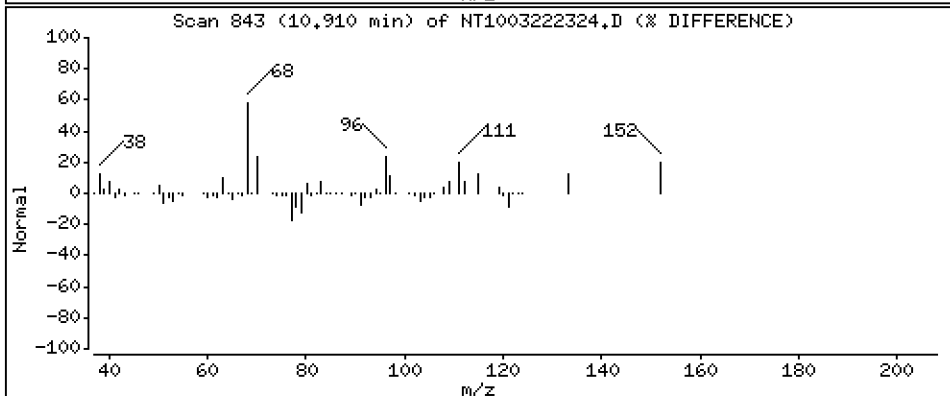
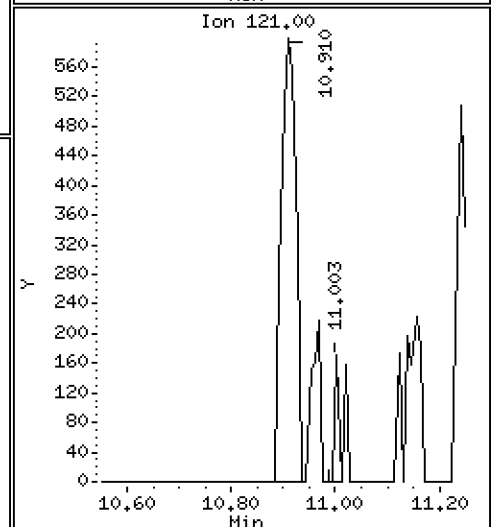
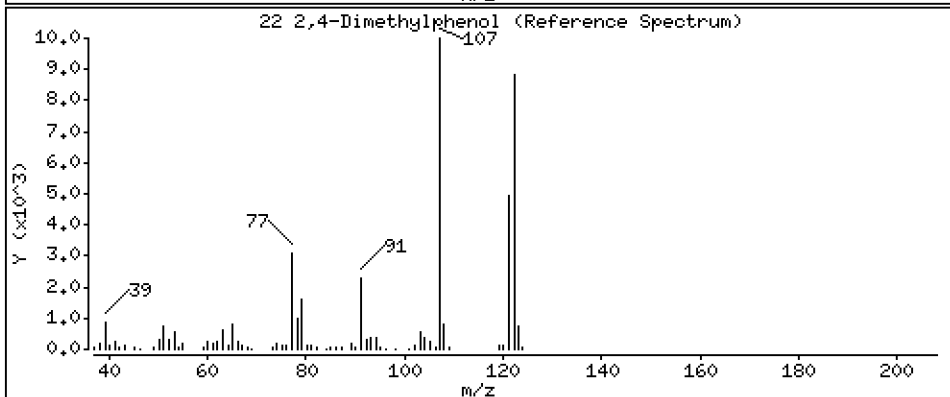
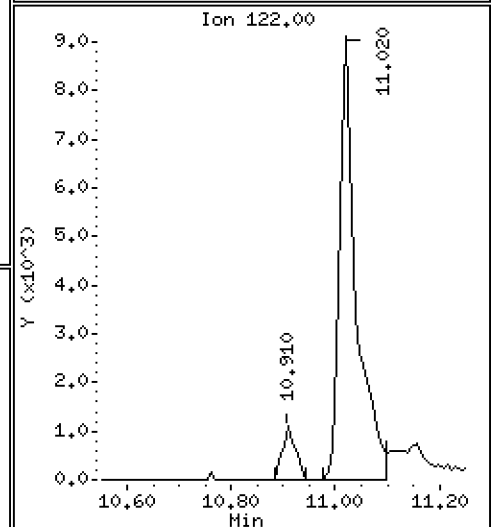
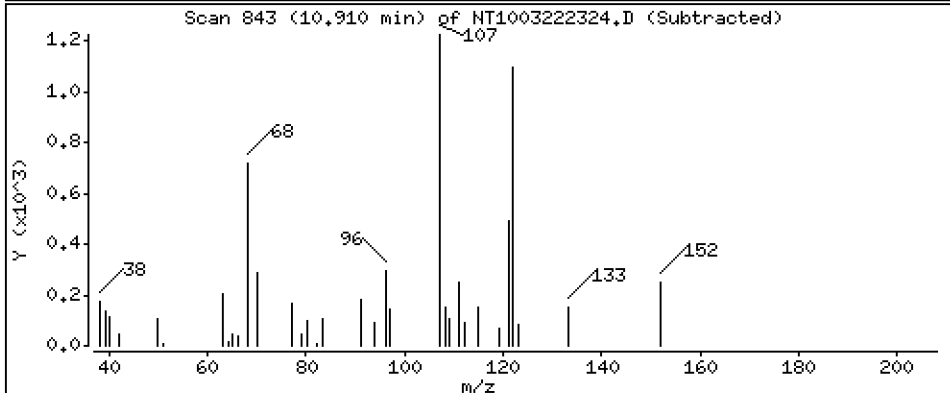
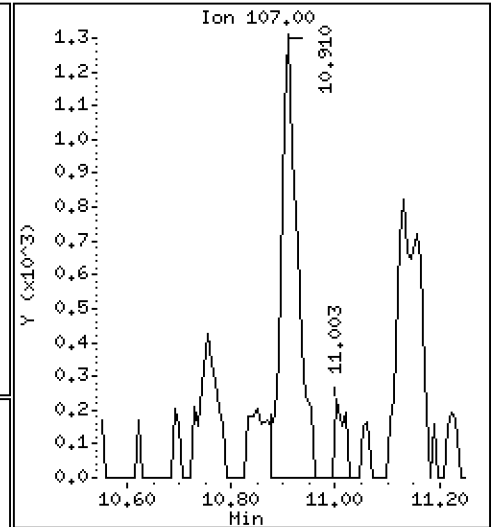
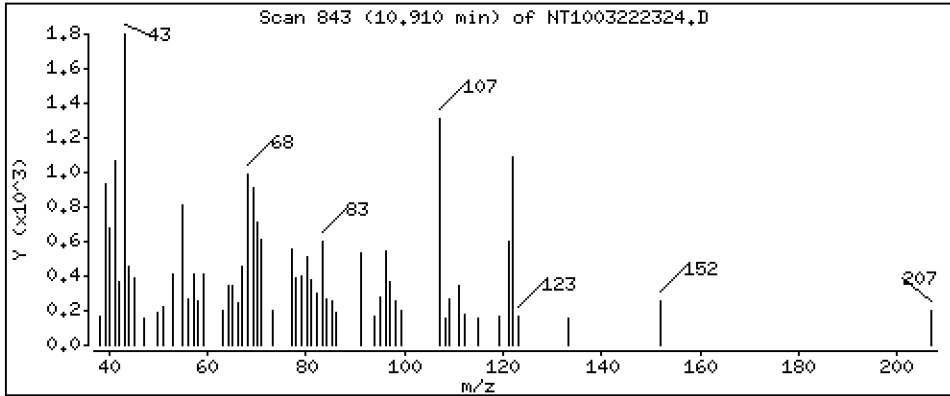
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 0.05659 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

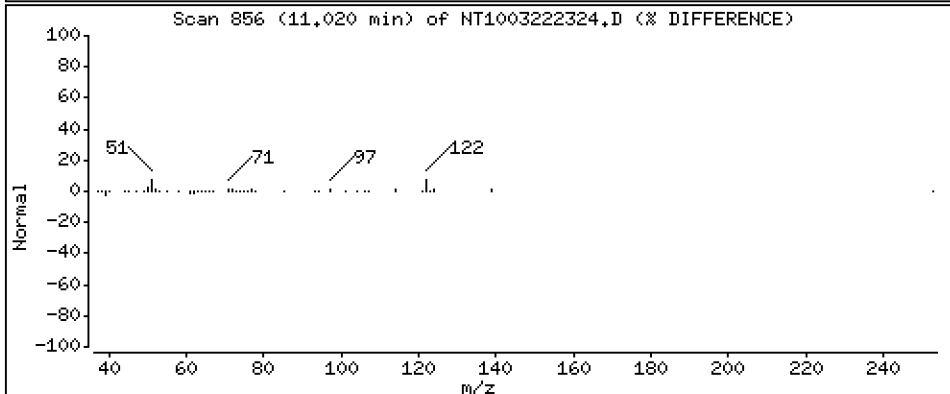
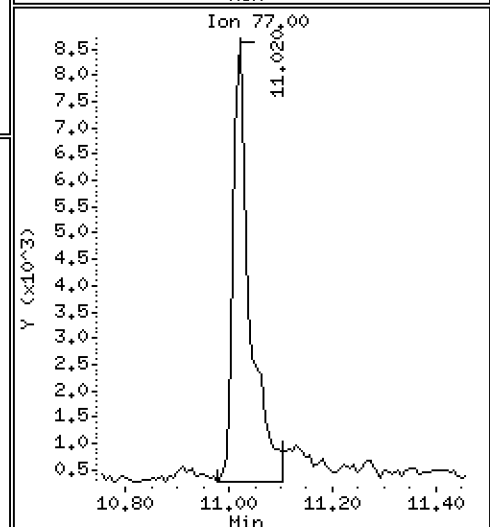
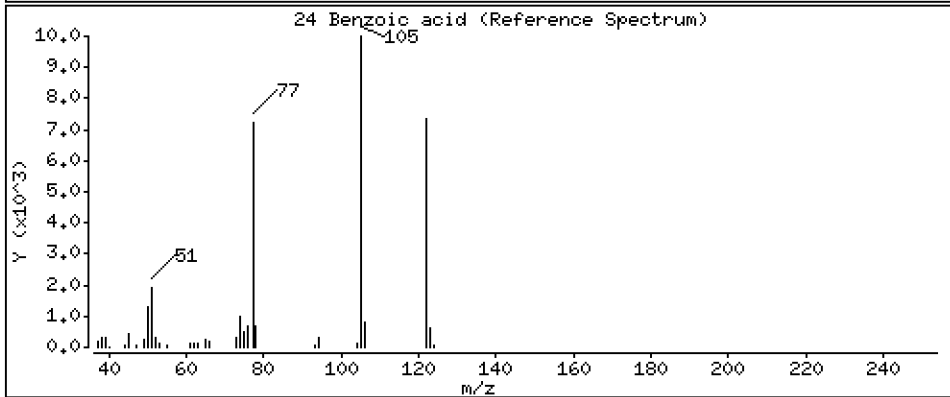
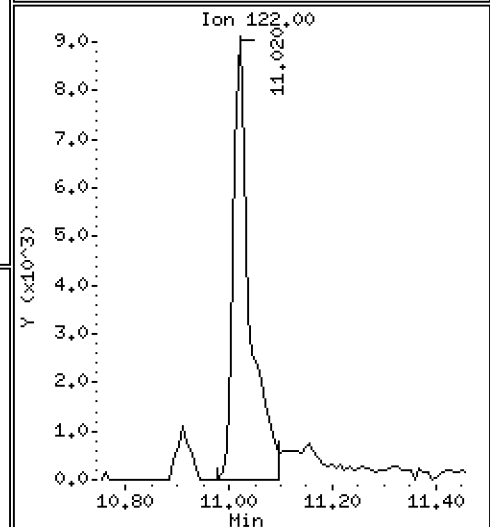
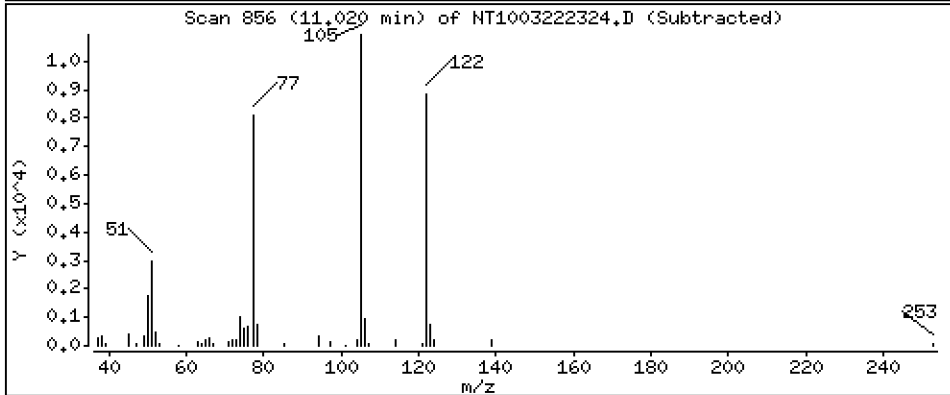
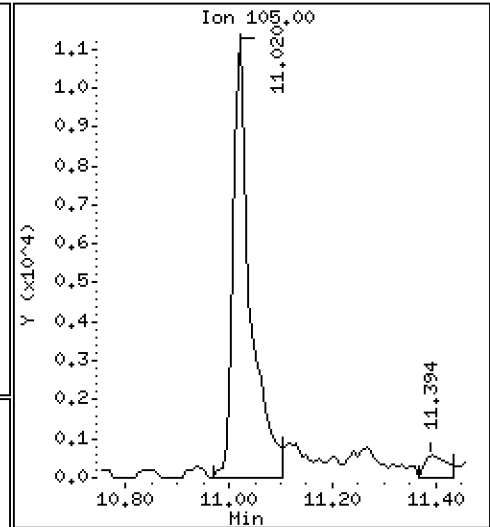
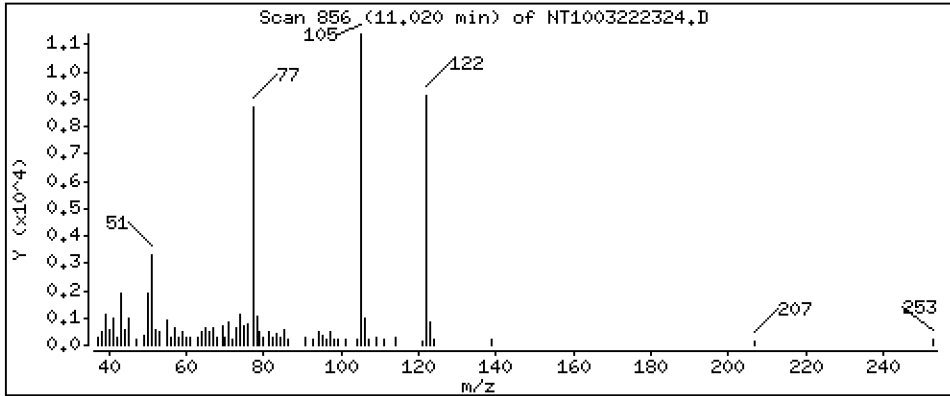
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.9489 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

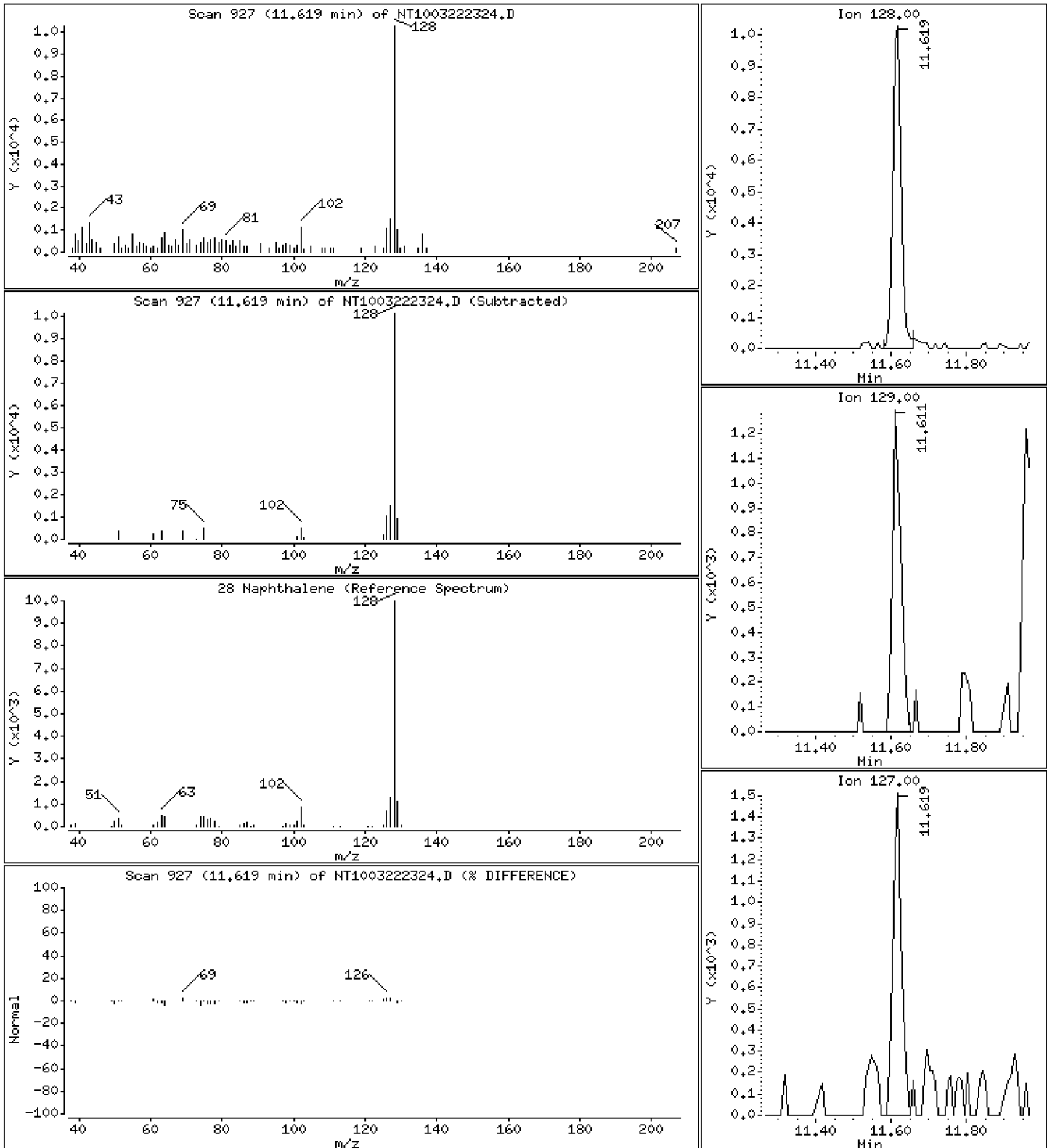
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 0.1127 ug/mL





Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

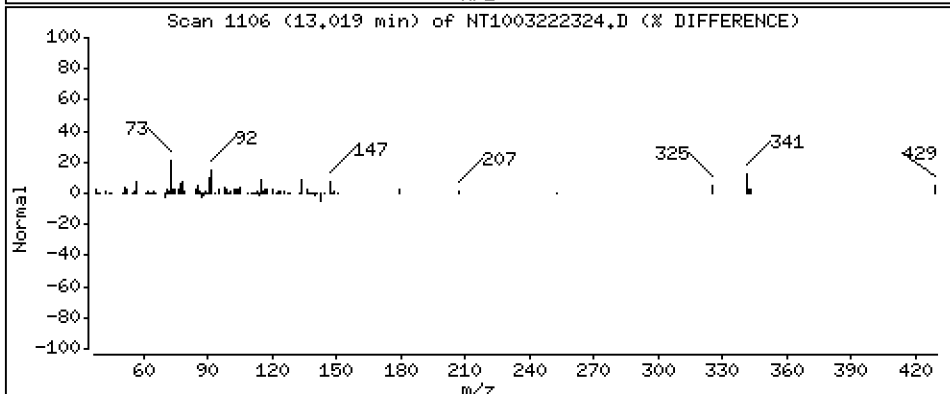
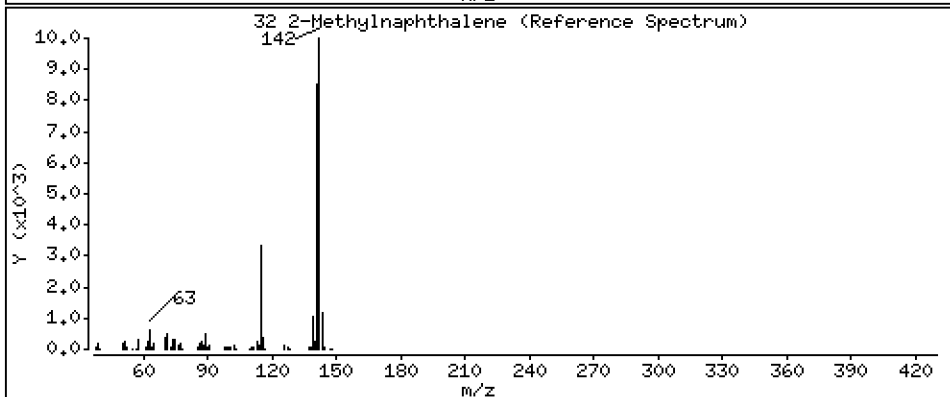
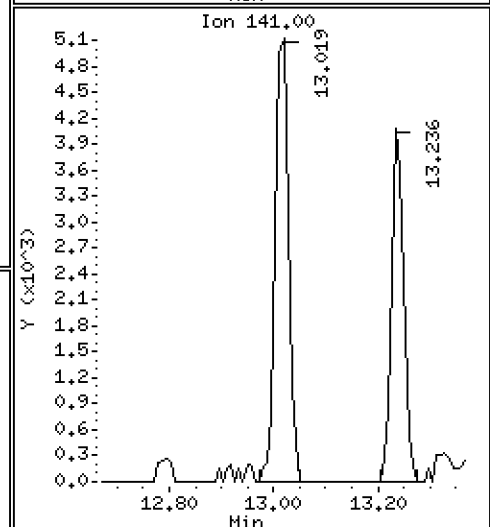
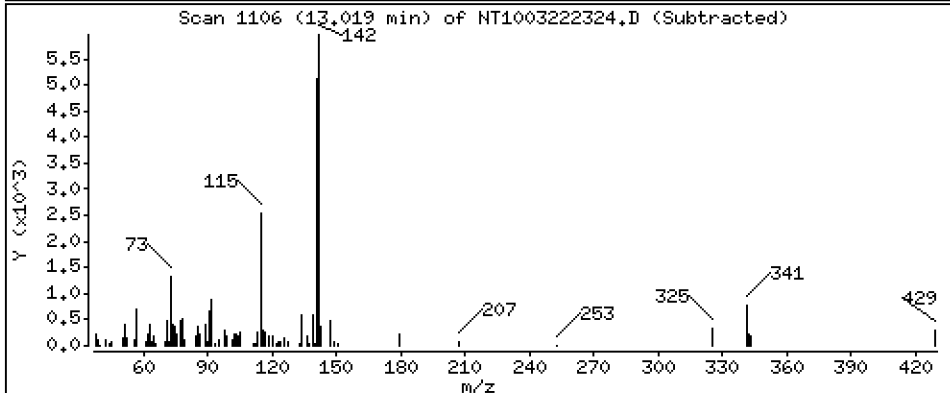
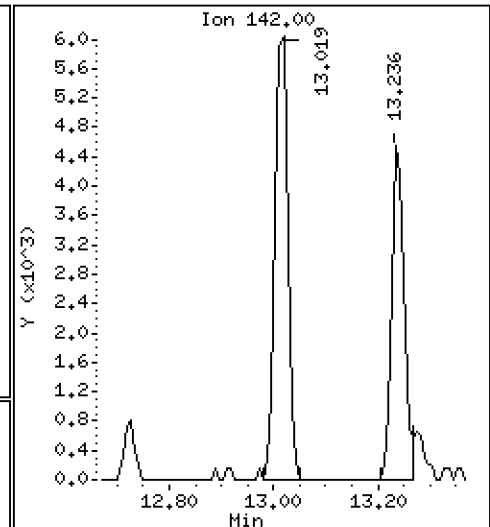
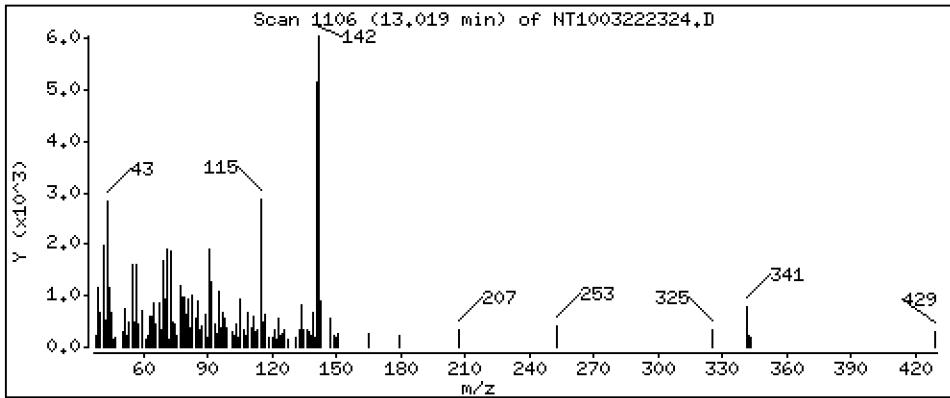
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

32 2-Methylnaphthalene

Concentration: 0.09434 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

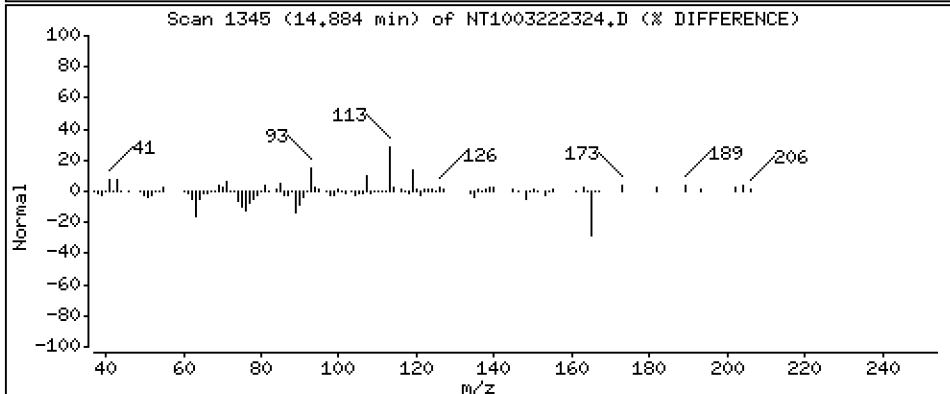
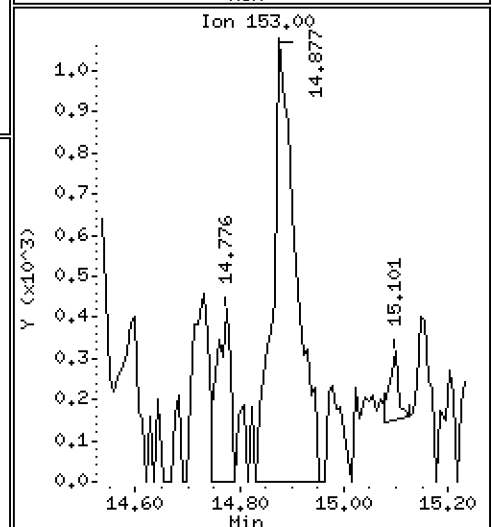
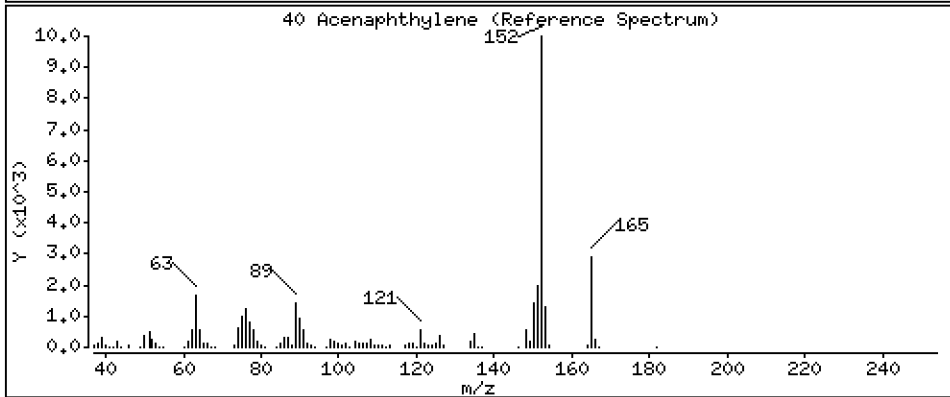
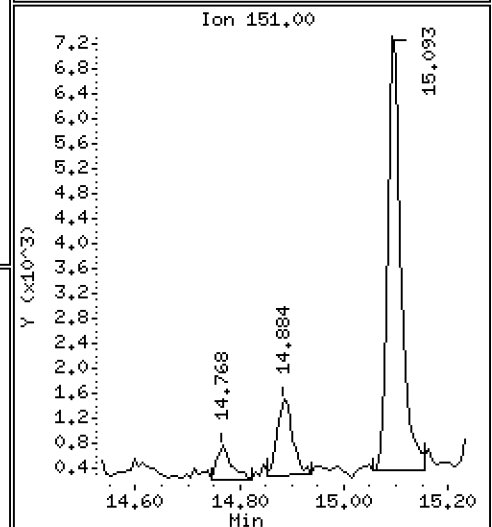
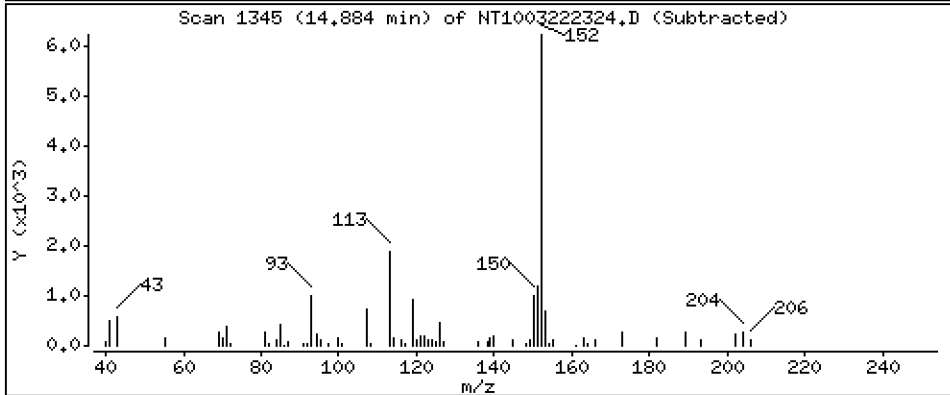
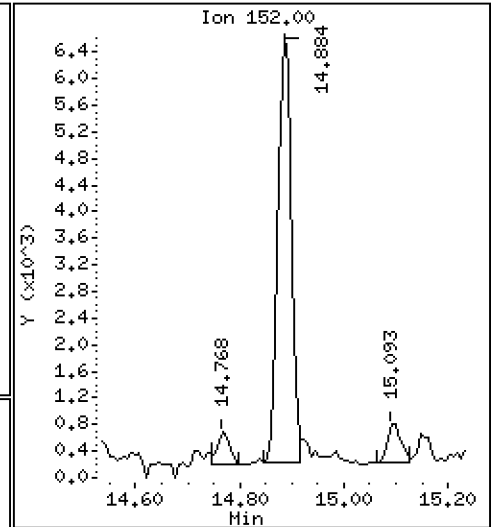
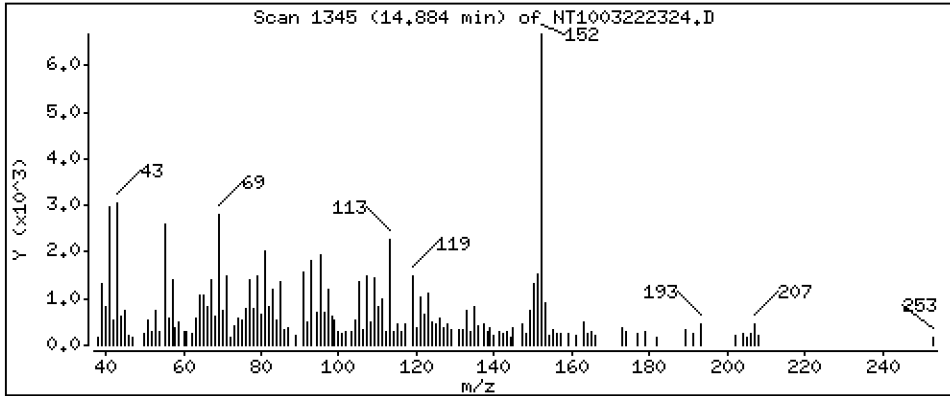
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 0.07141 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

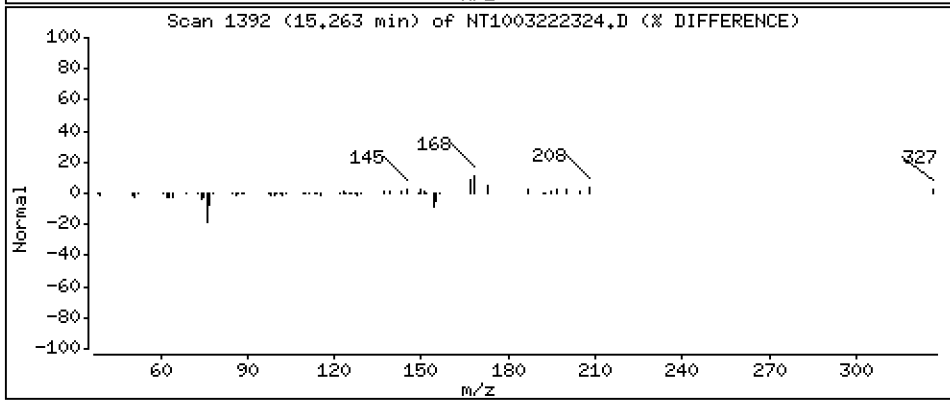
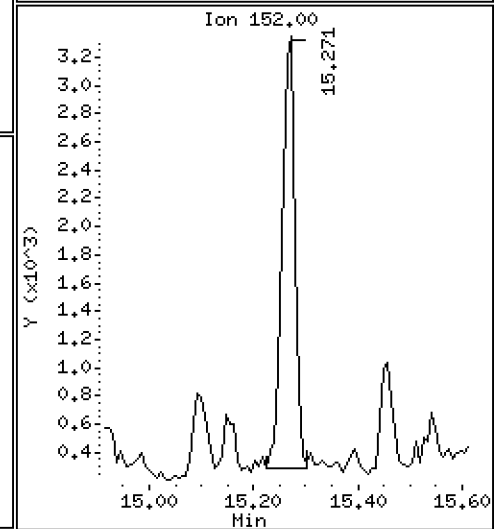
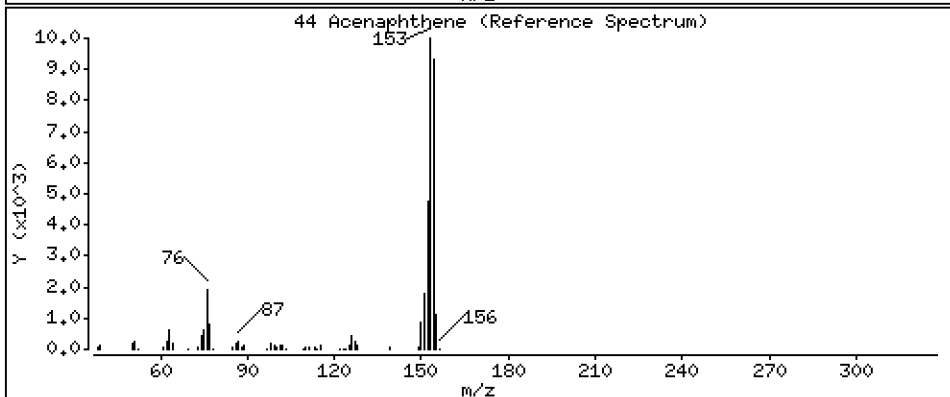
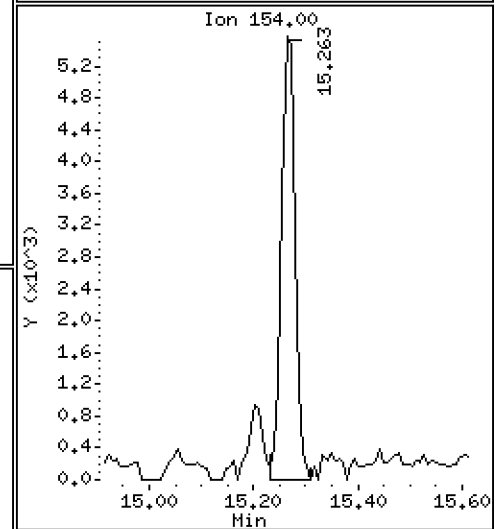
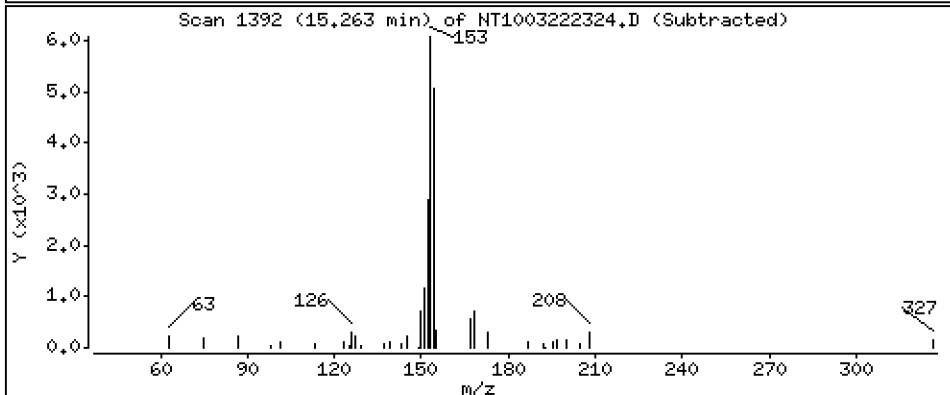
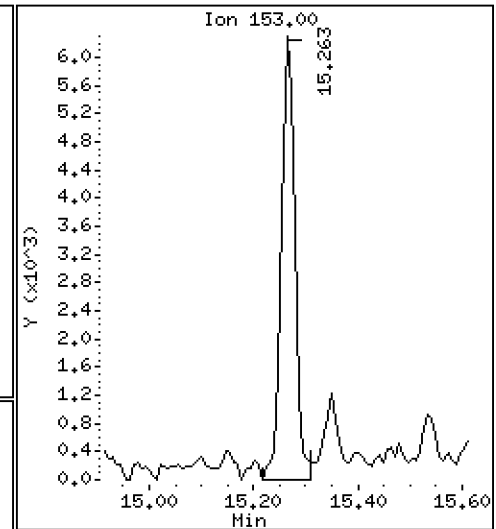
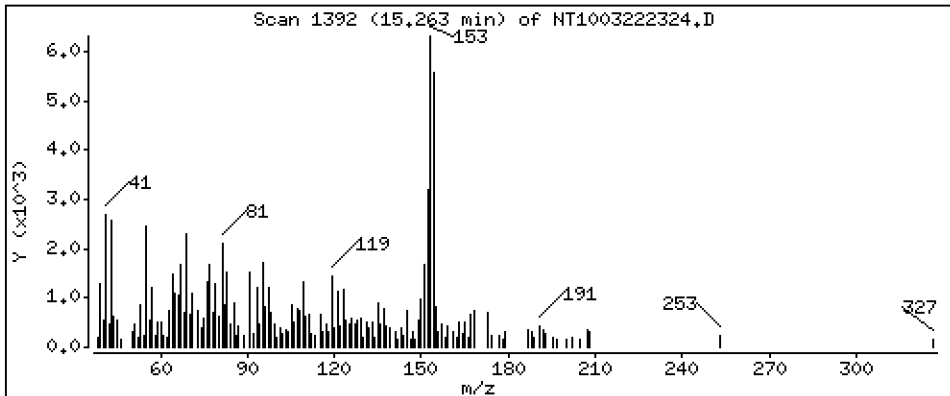
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,1154 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

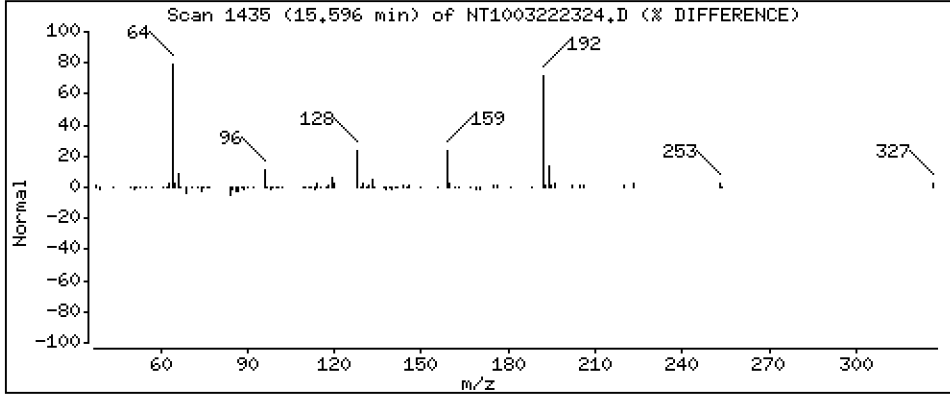
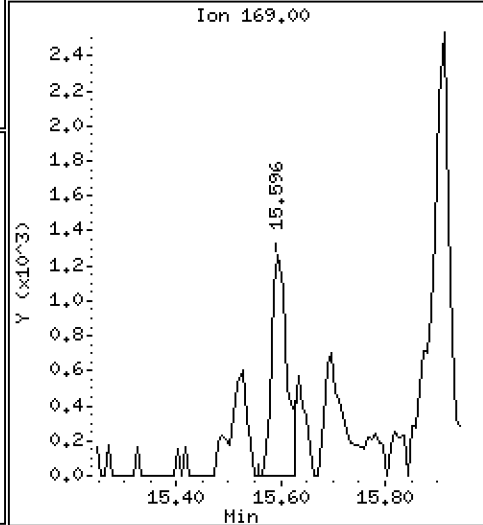
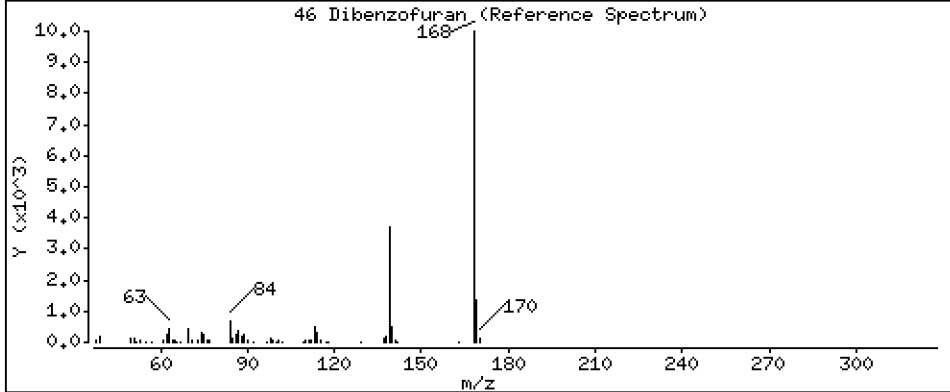
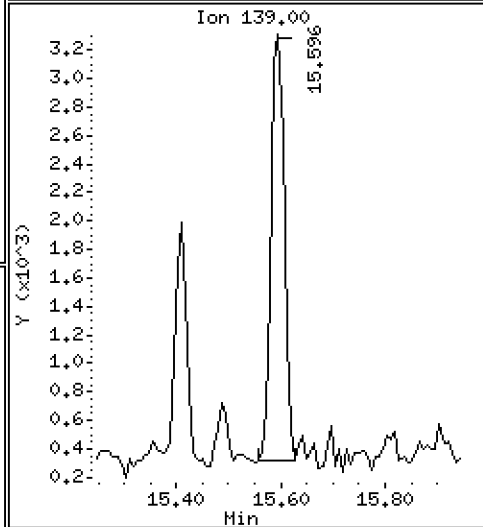
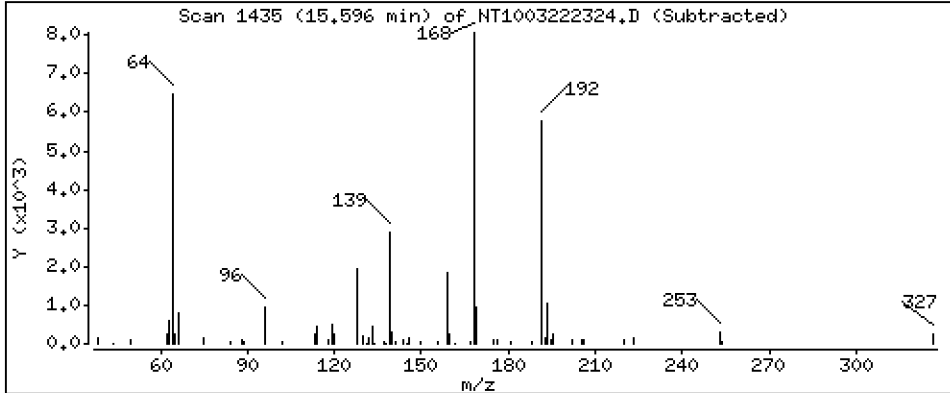
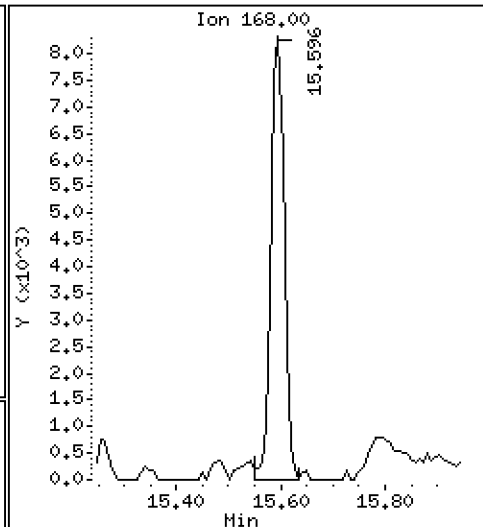
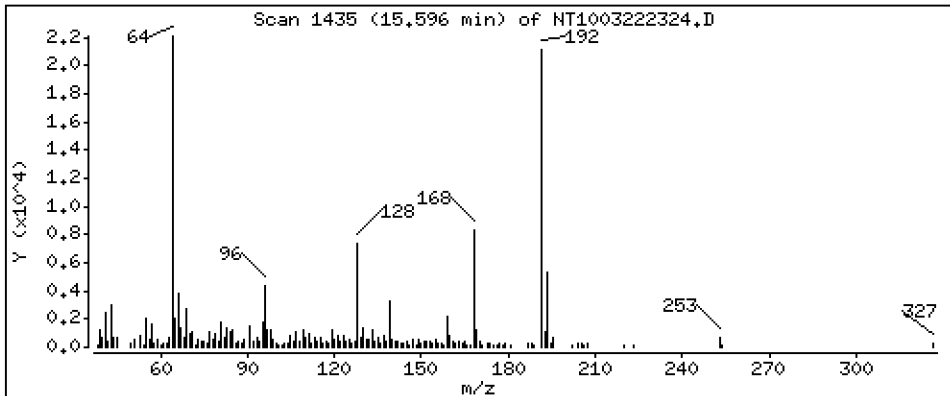
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,1011 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

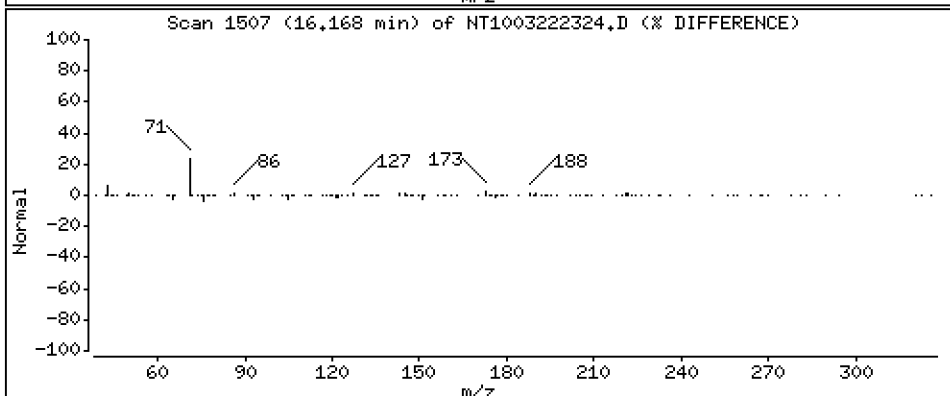
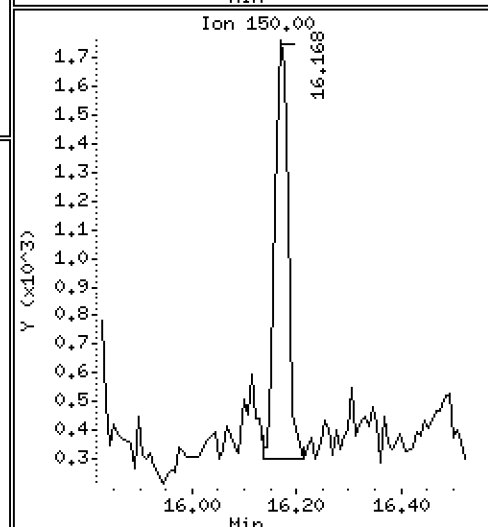
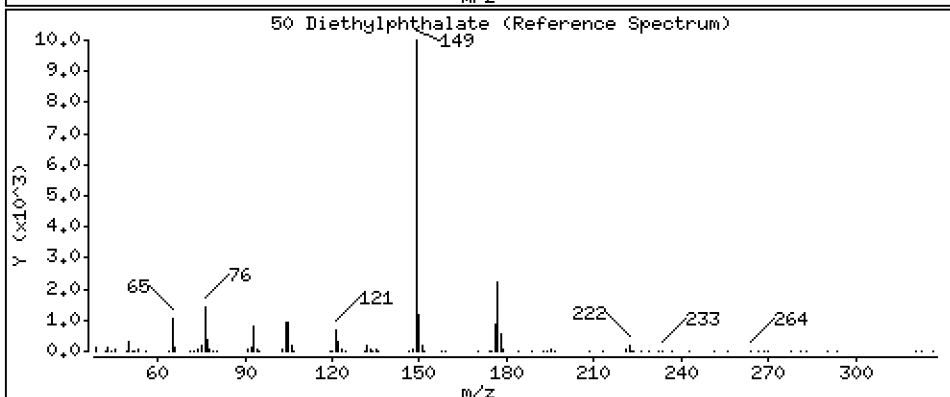
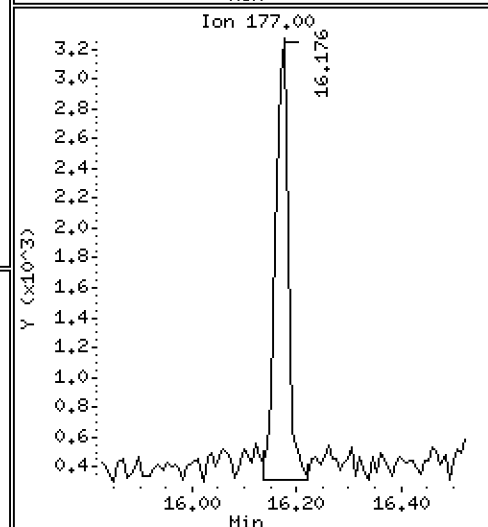
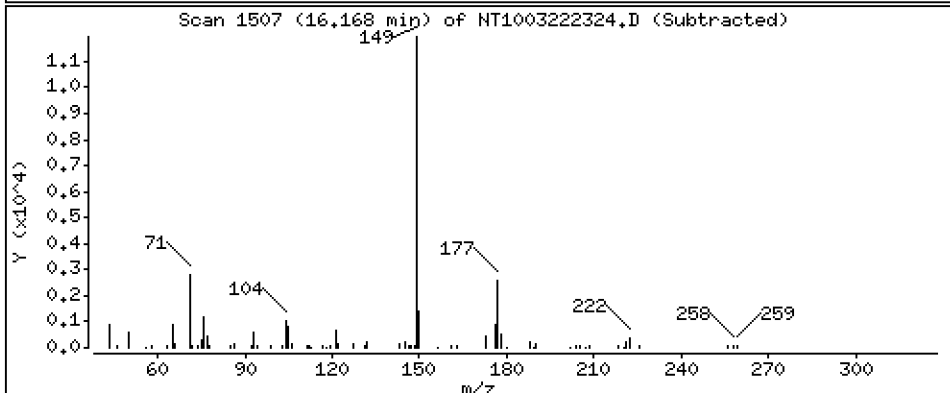
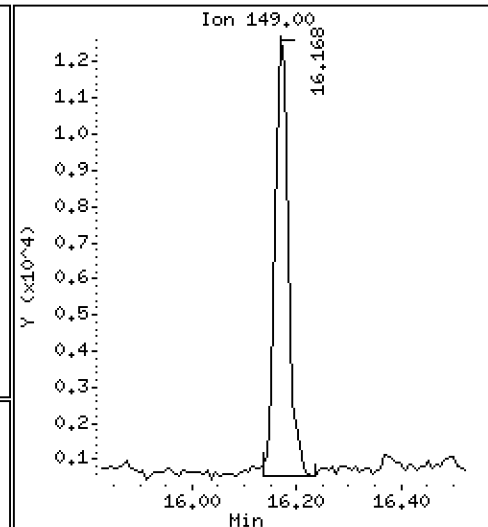
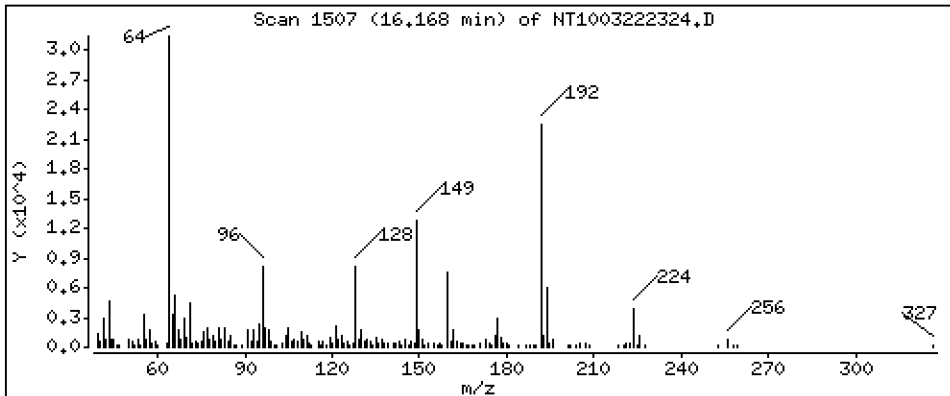
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 0.2398 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

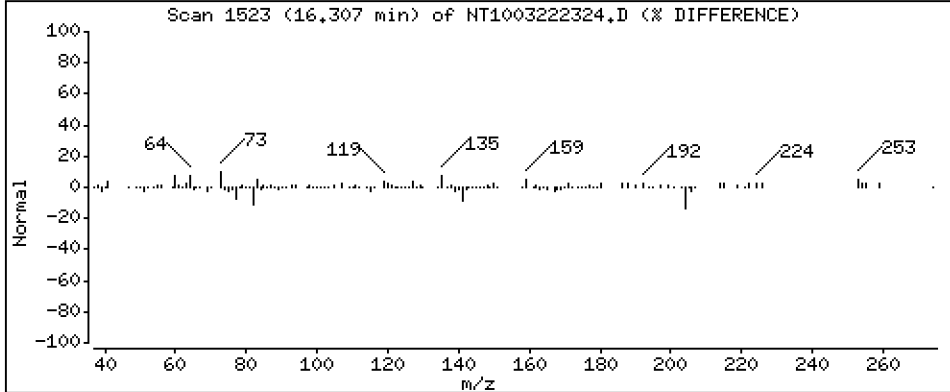
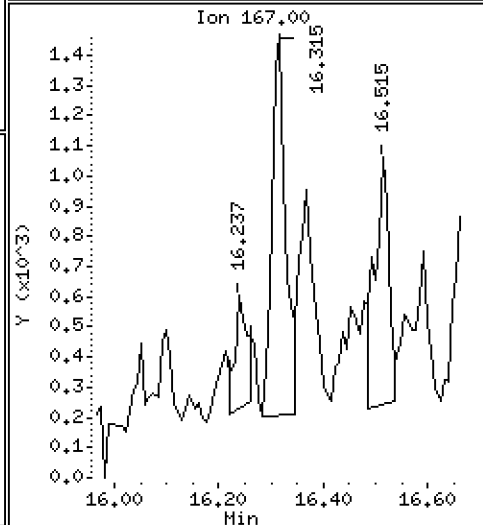
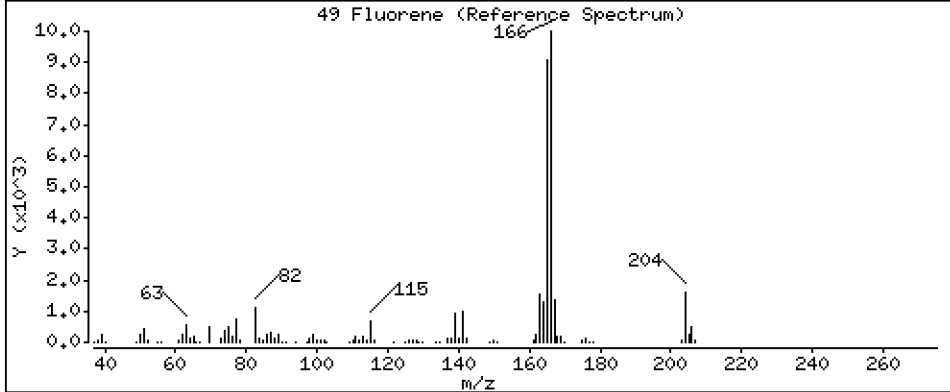
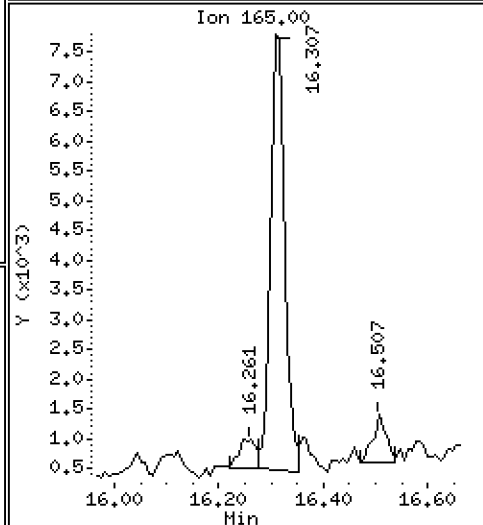
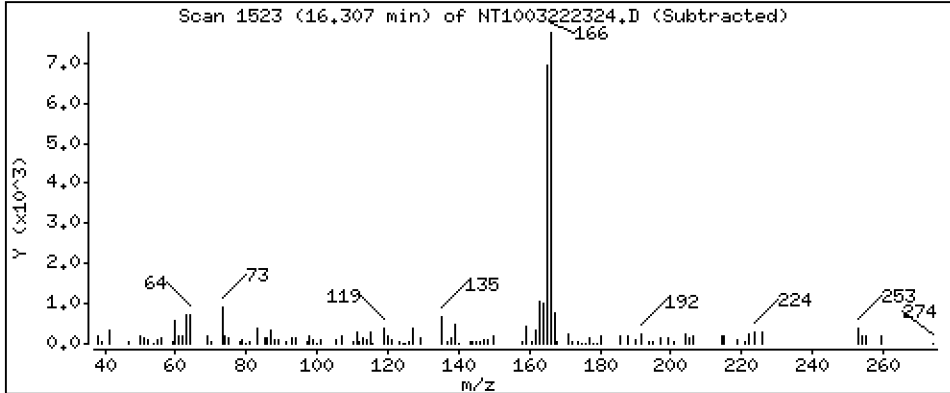
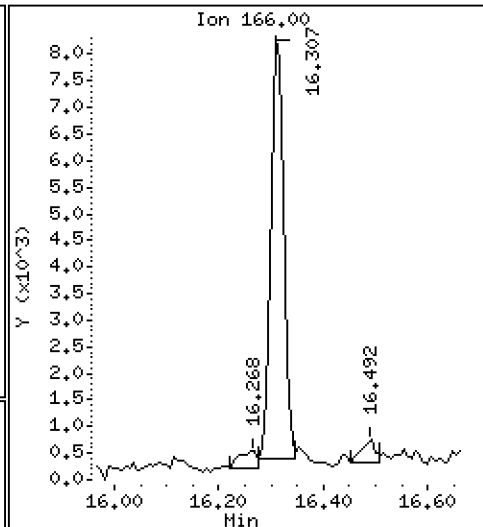
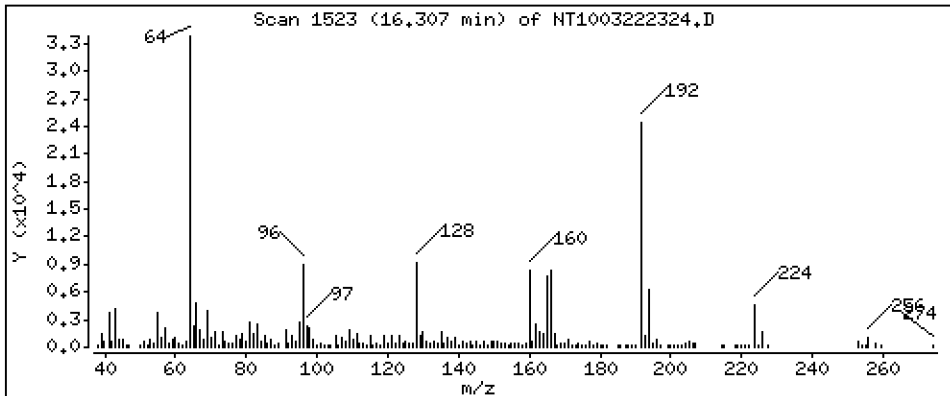
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 0.1177 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

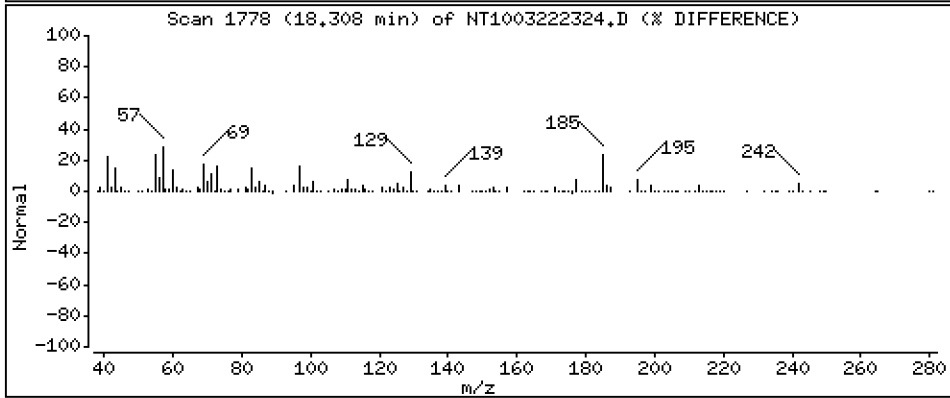
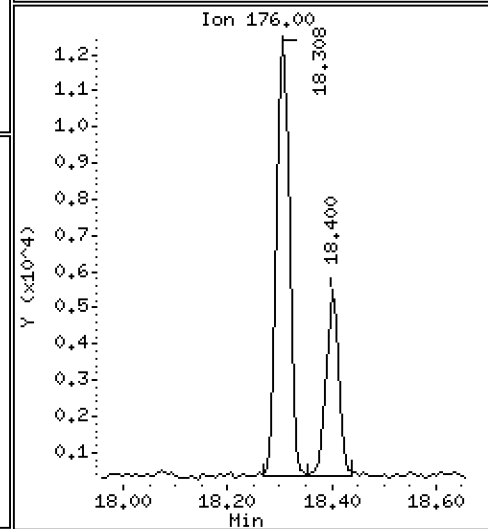
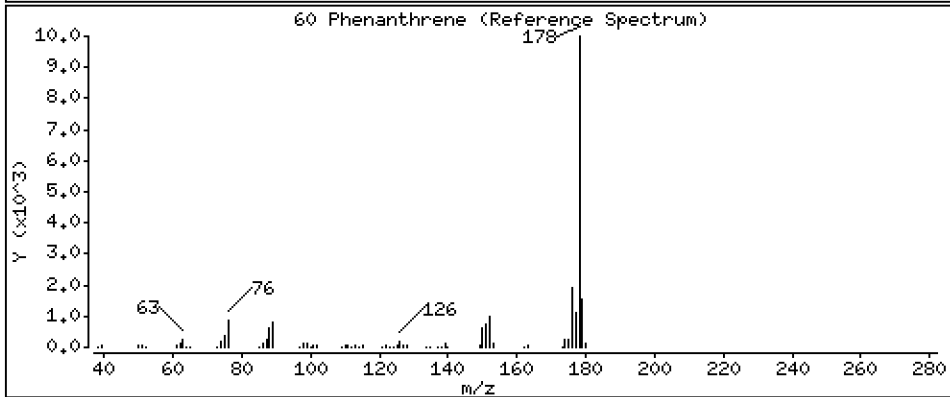
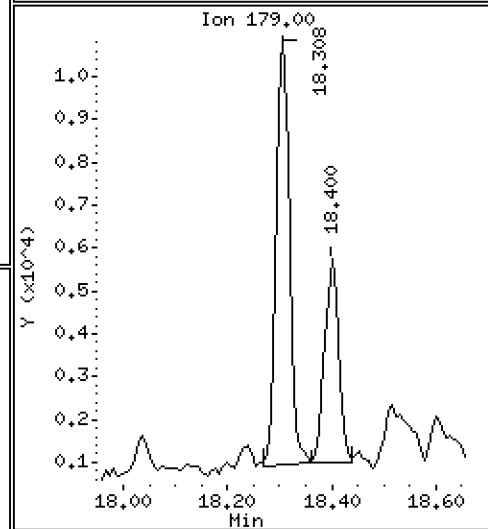
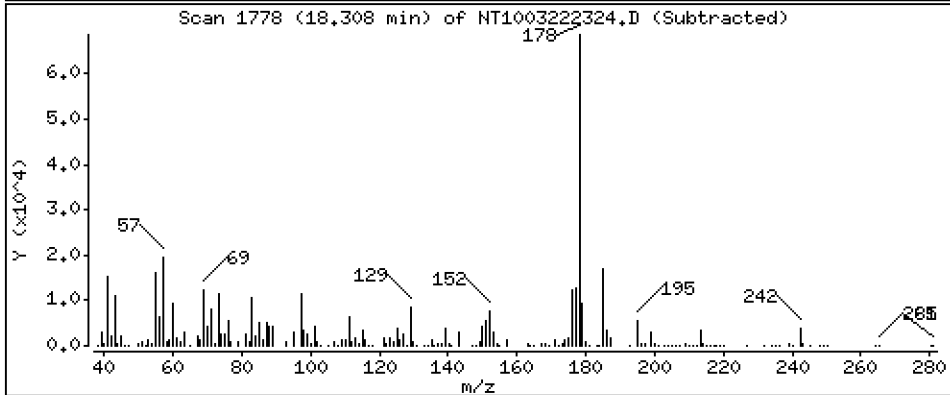
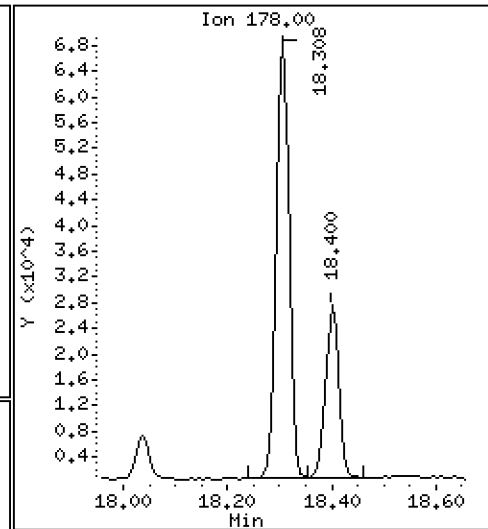
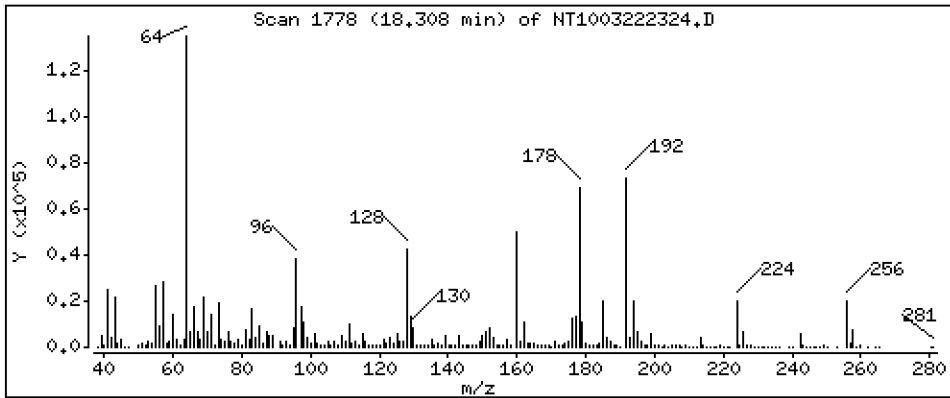
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 0.7030 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

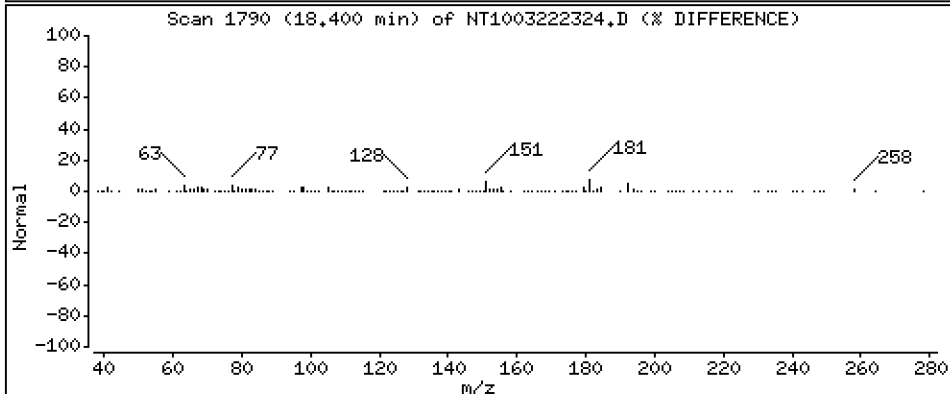
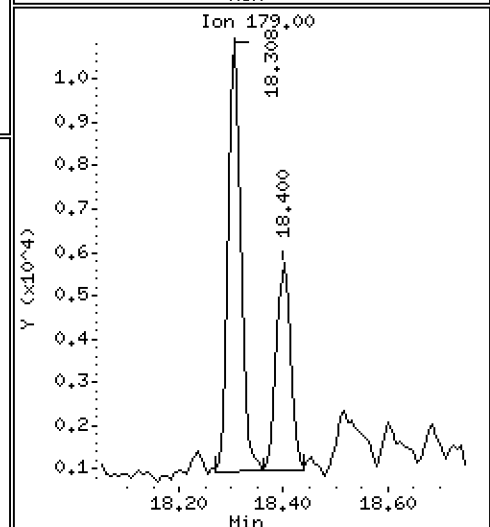
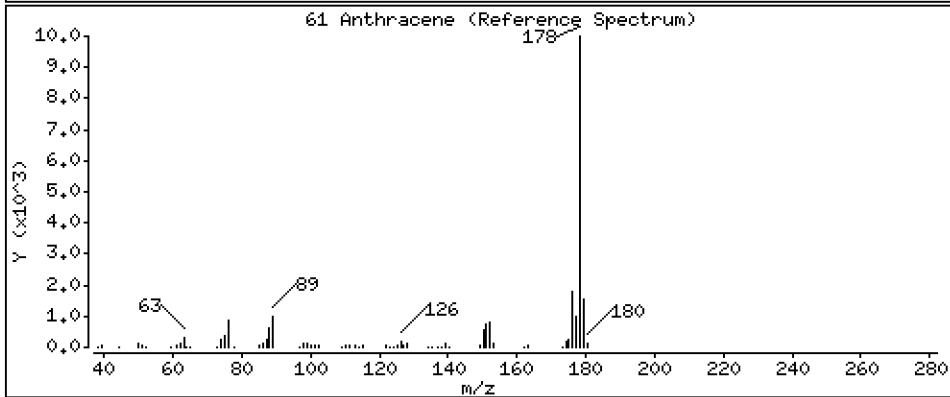
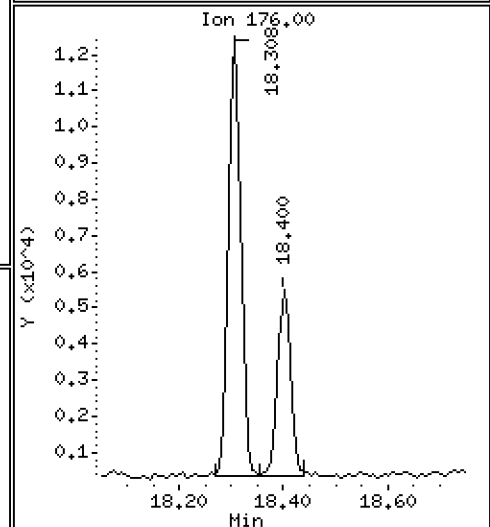
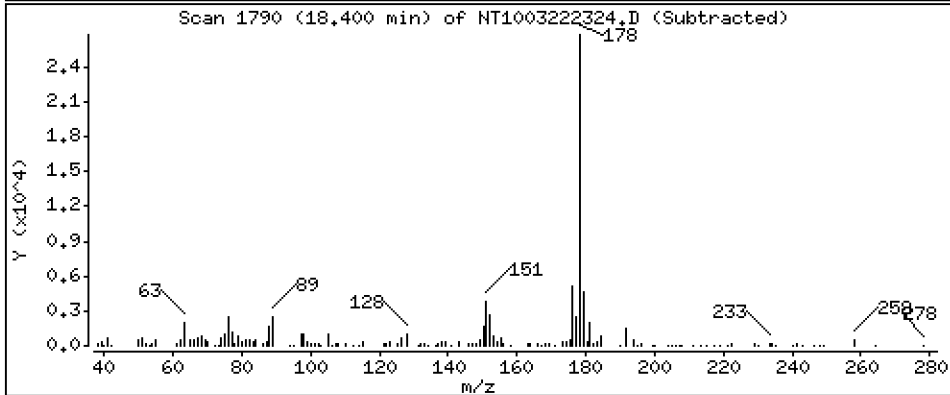
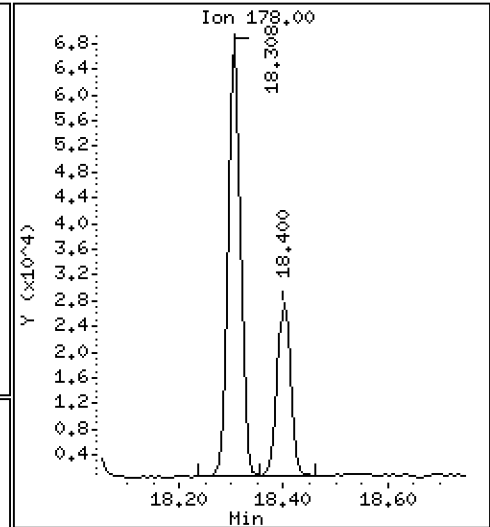
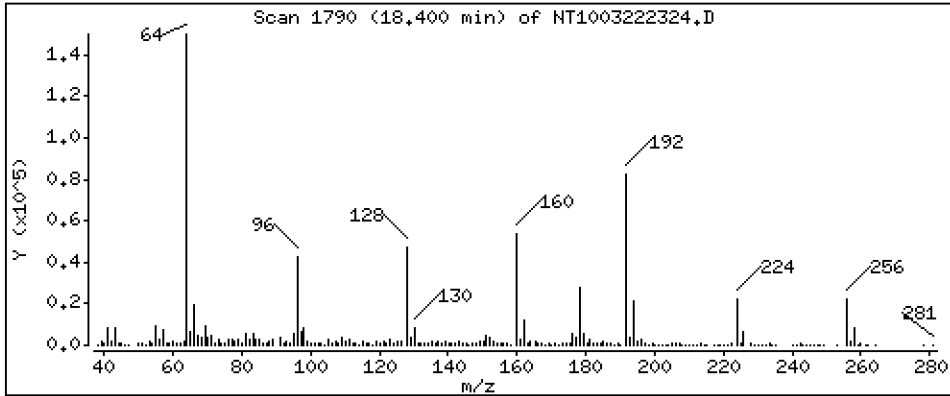
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 0.3096 ug/mL





Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

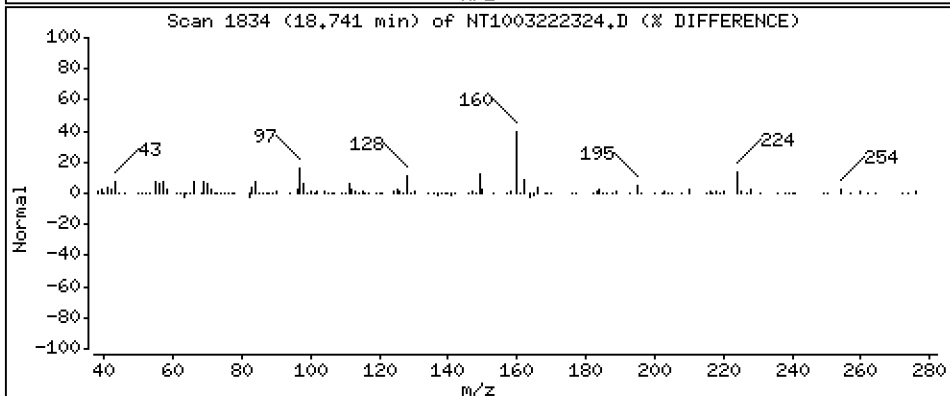
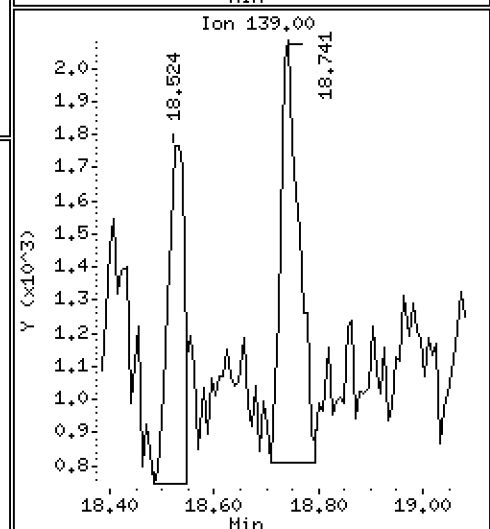
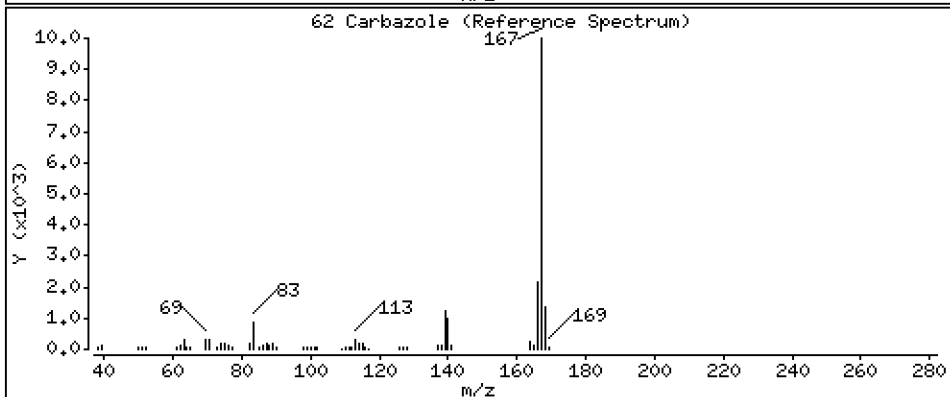
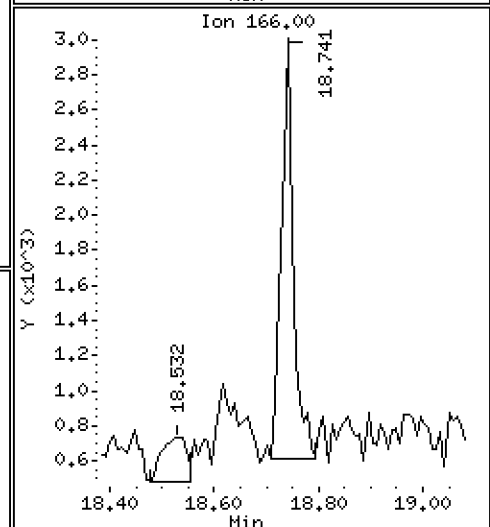
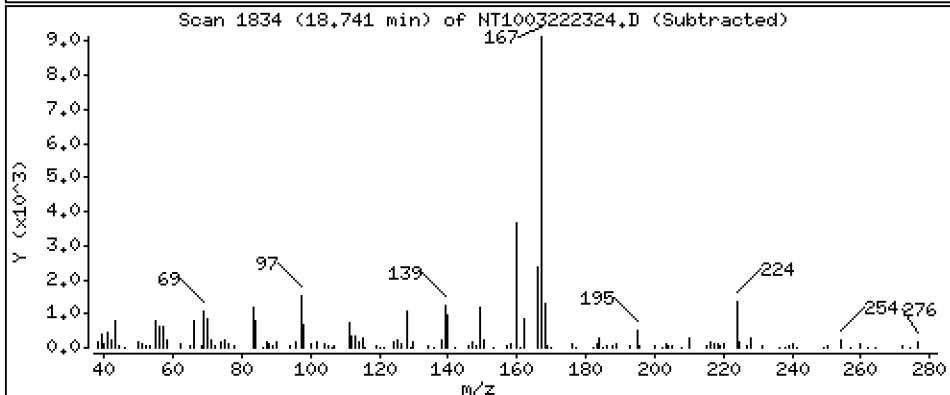
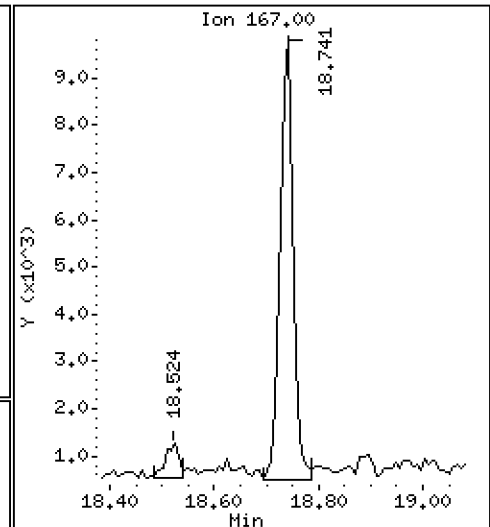
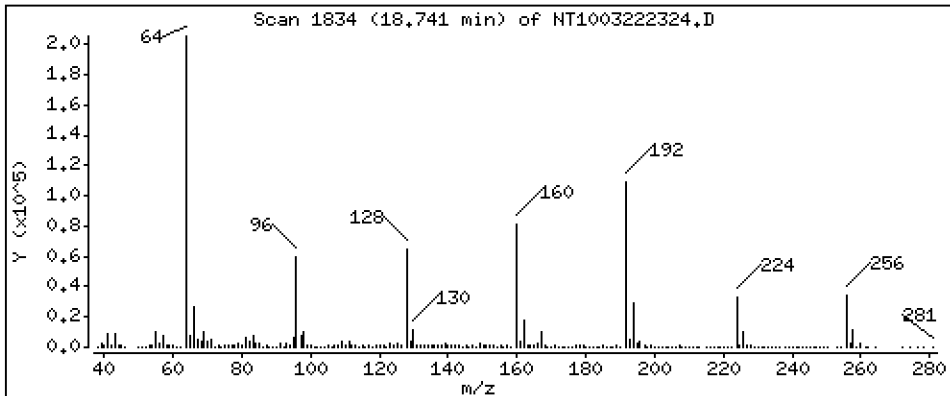
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

62 Carbazole

Concentration: 0.1162 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

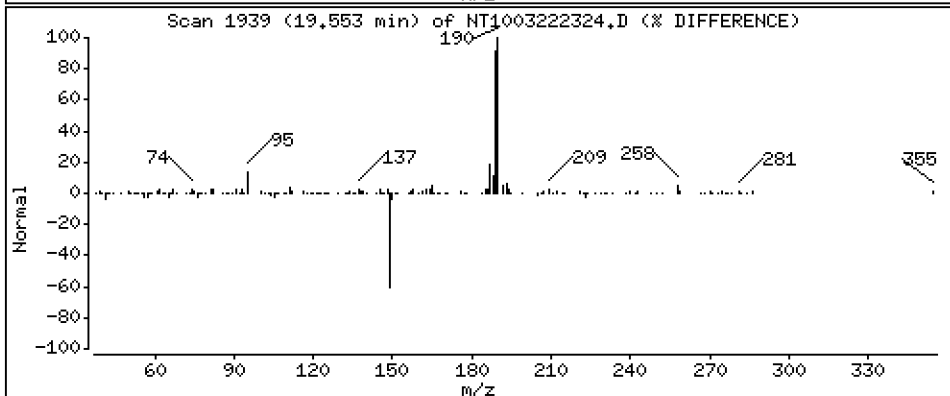
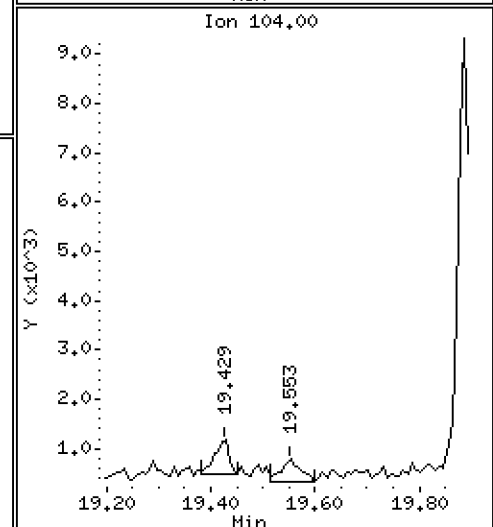
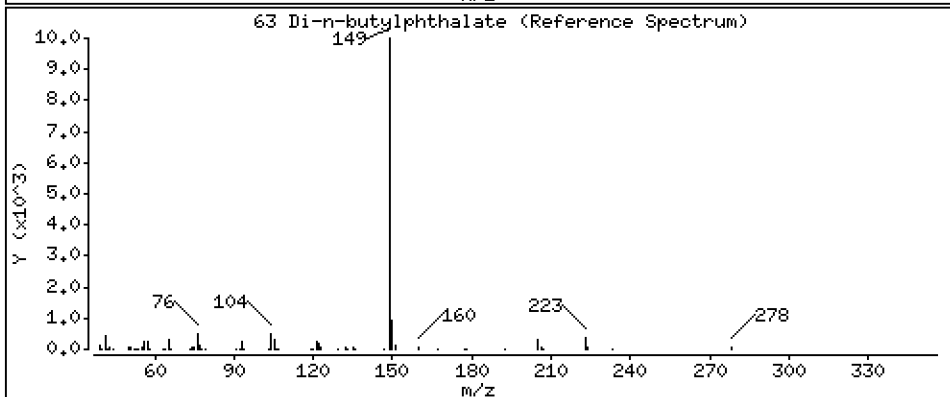
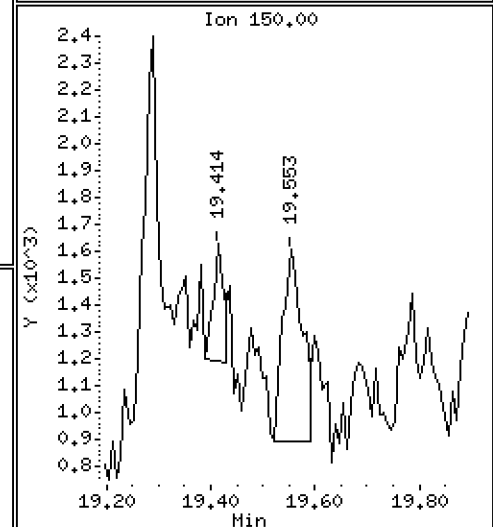
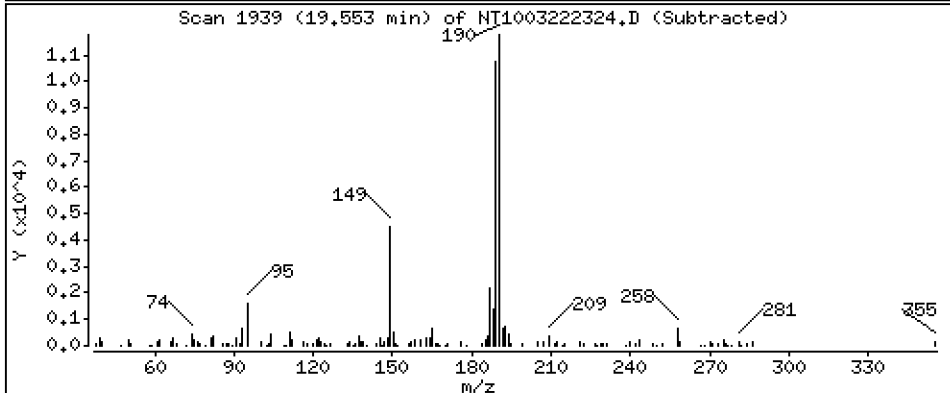
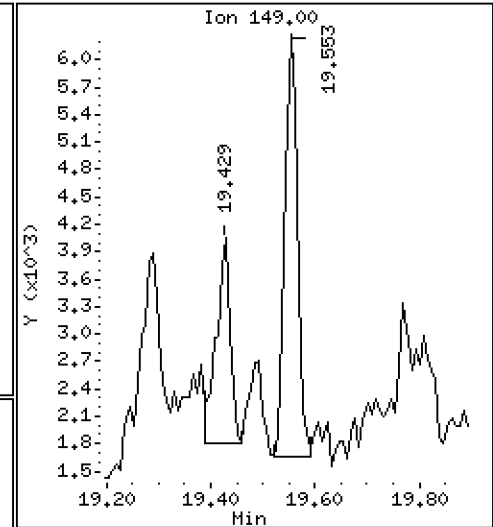
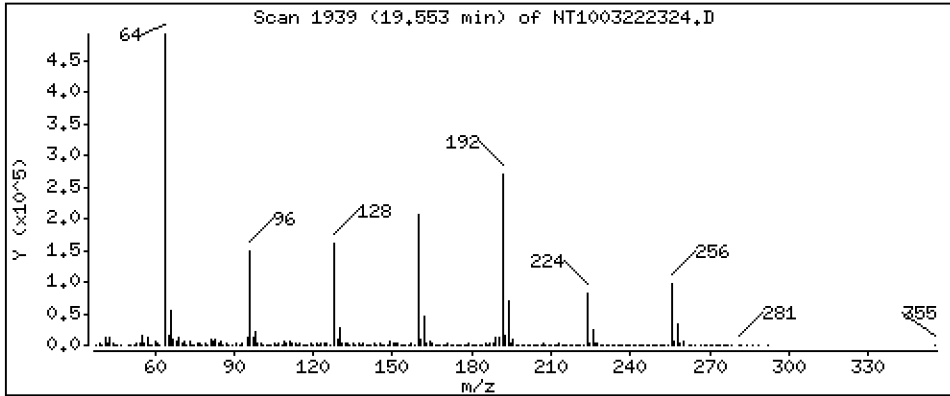
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 0.04077 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

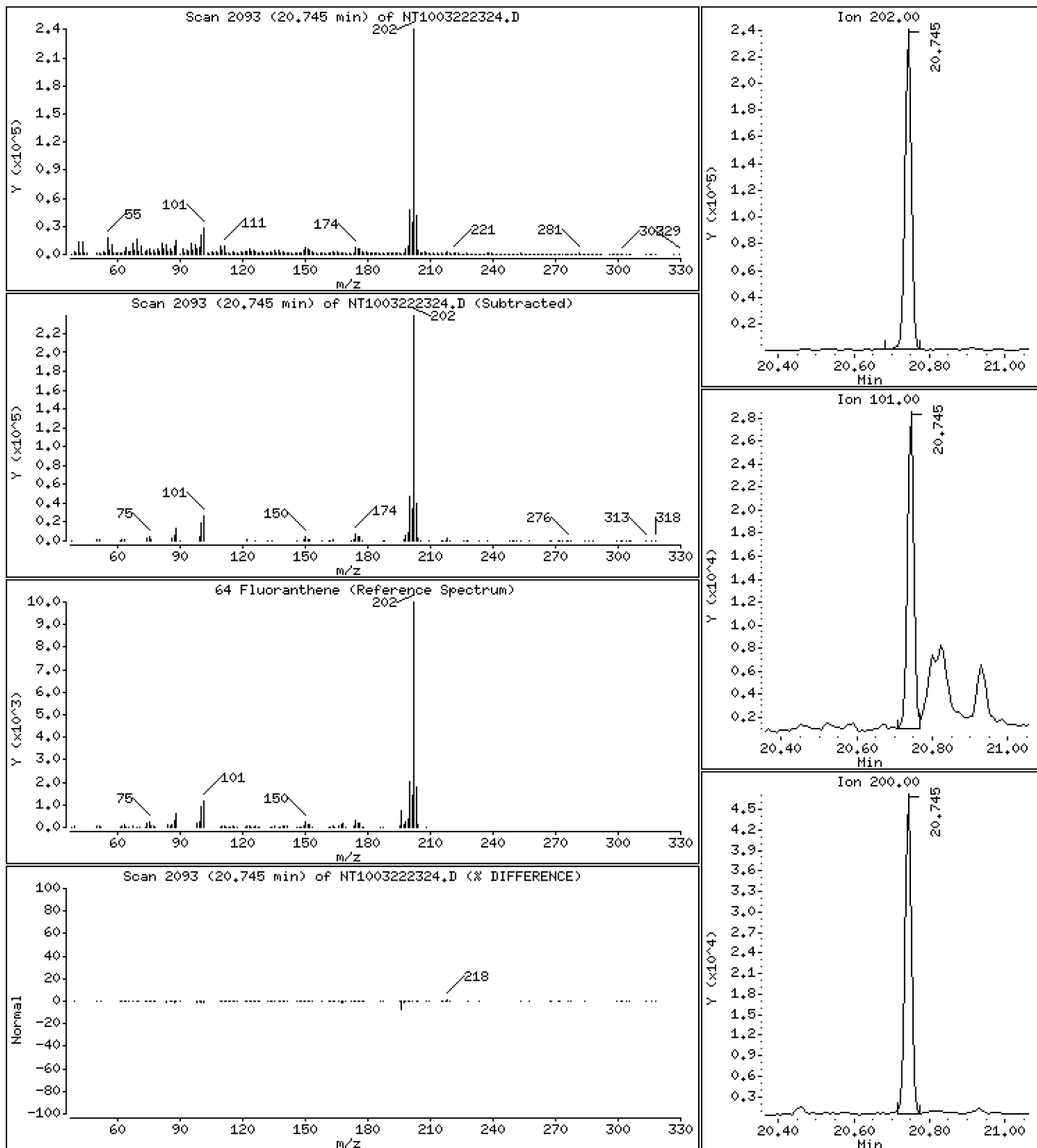
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 1,379 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

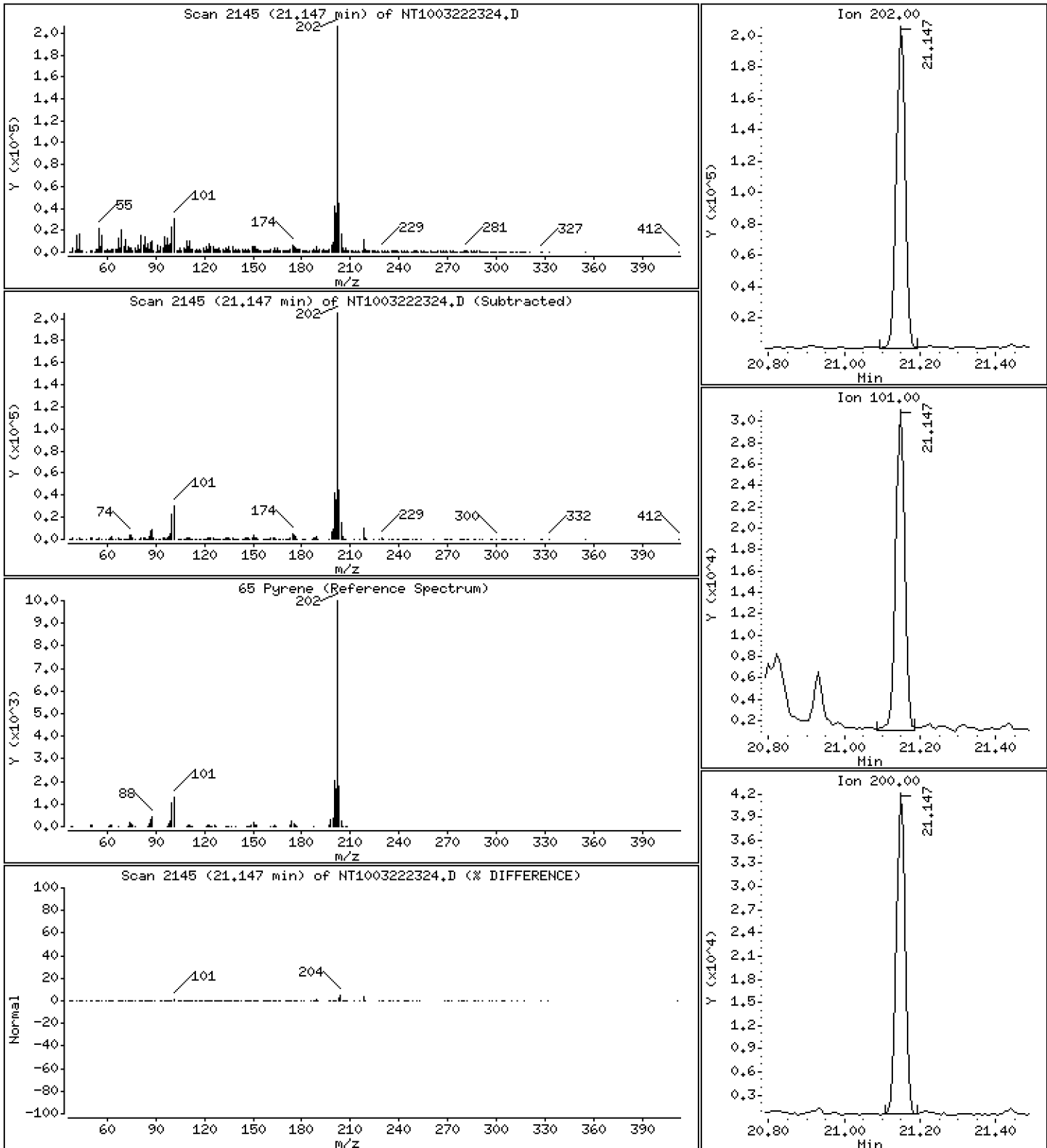
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 1,439 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

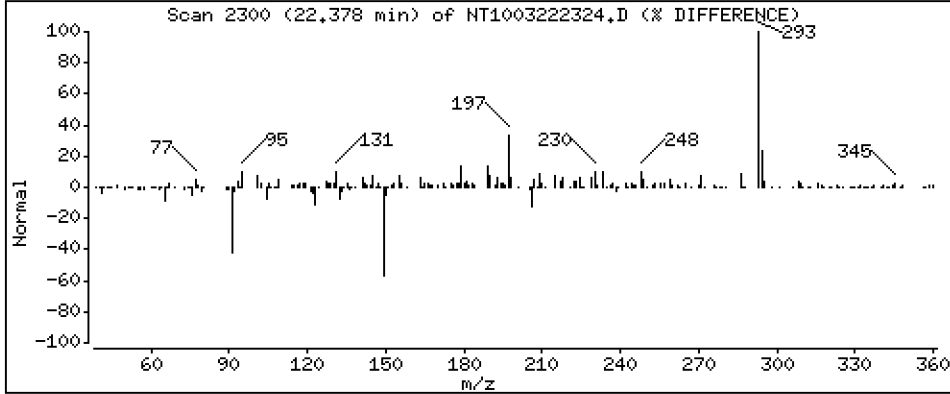
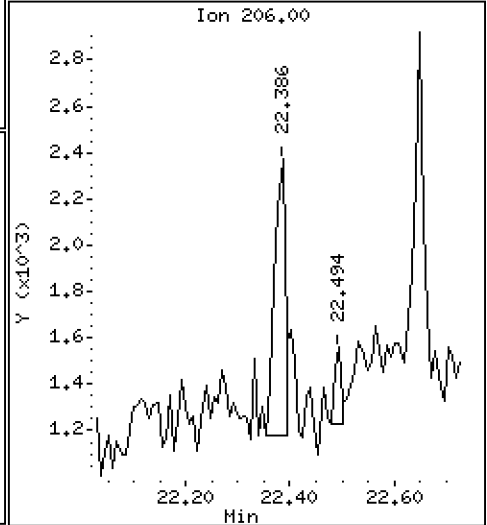
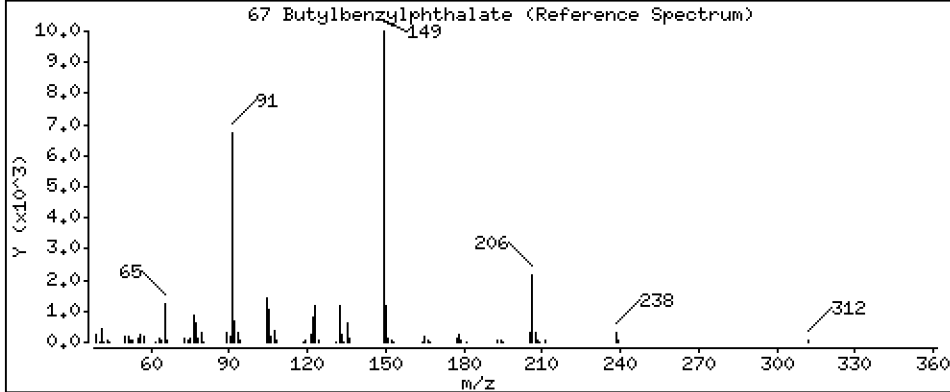
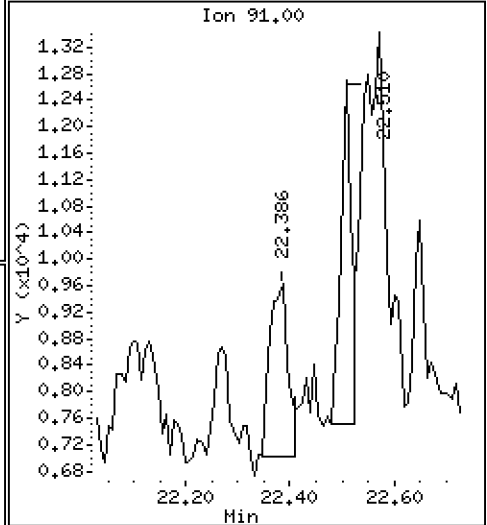
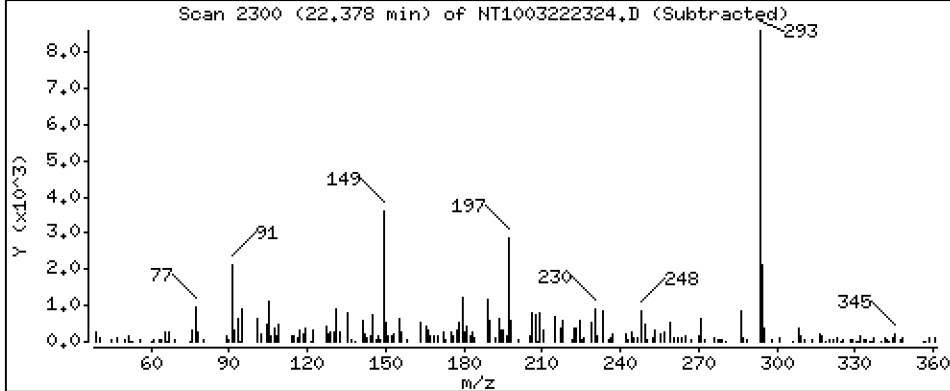
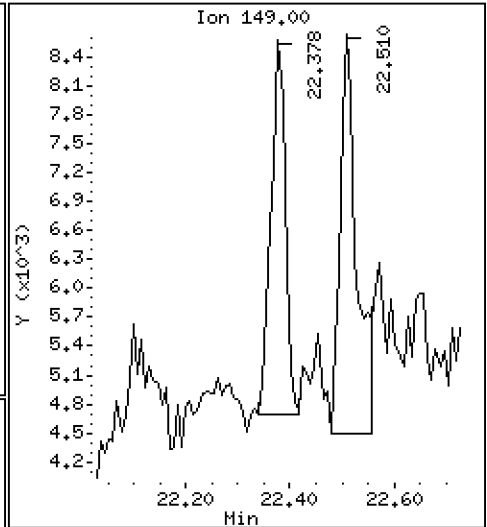
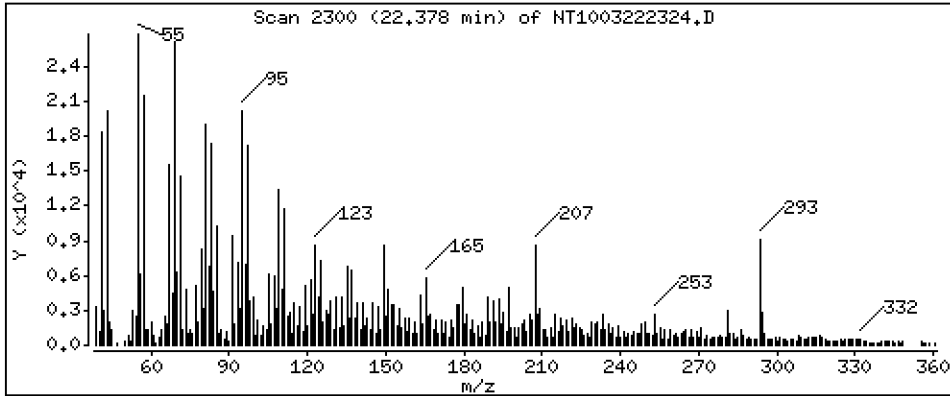
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.09213 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

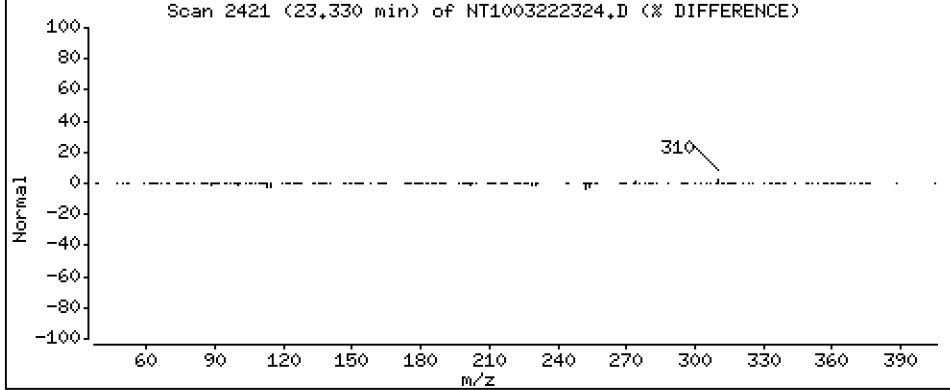
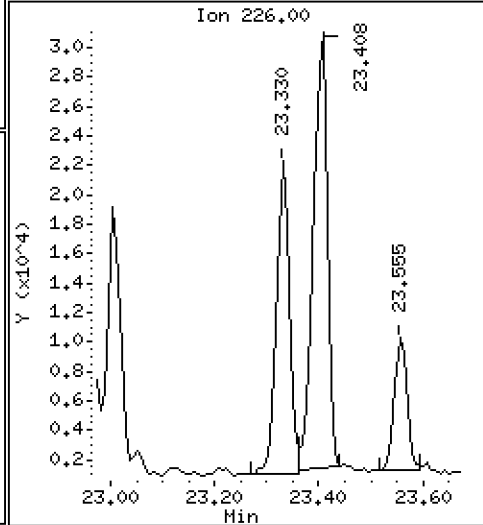
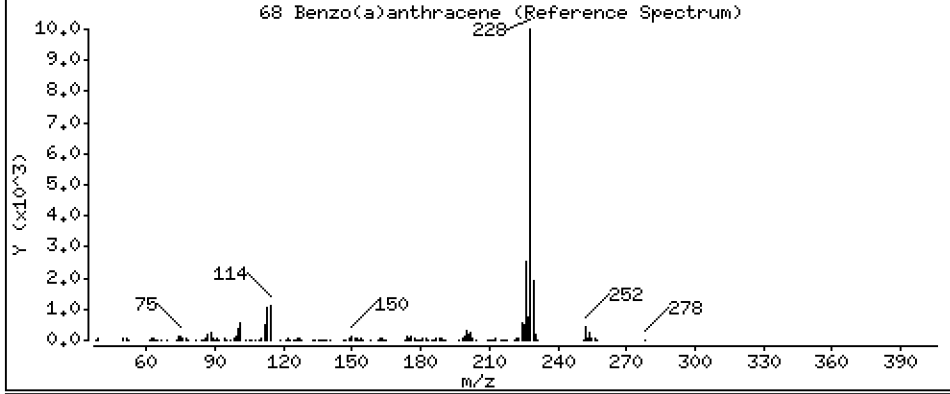
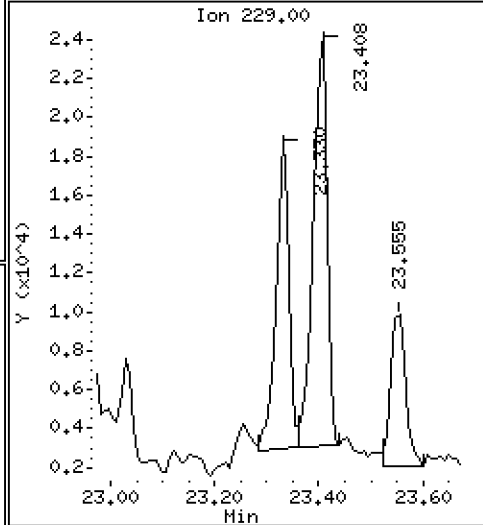
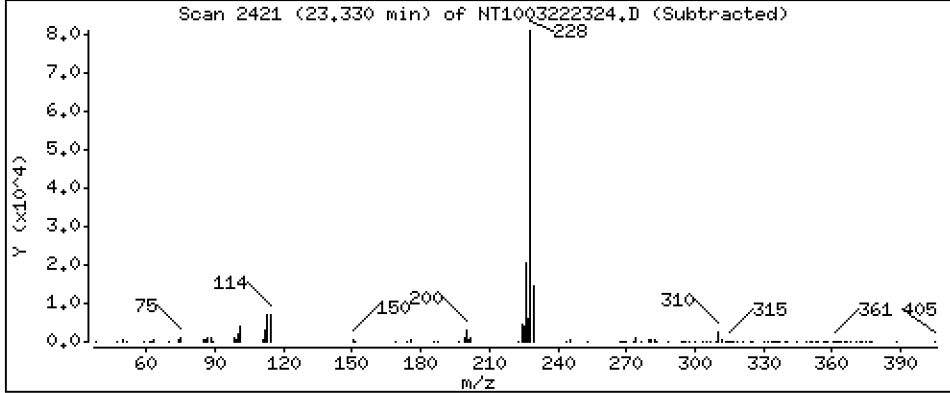
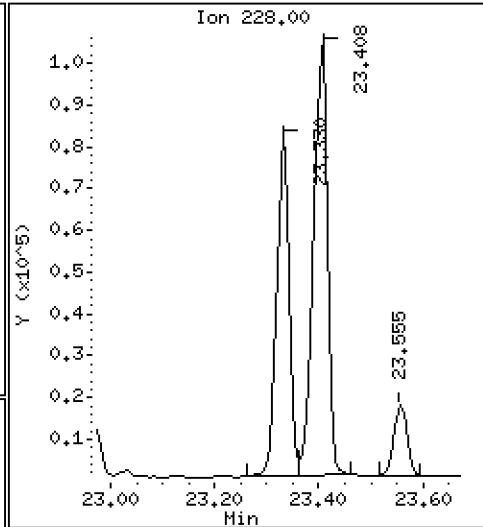
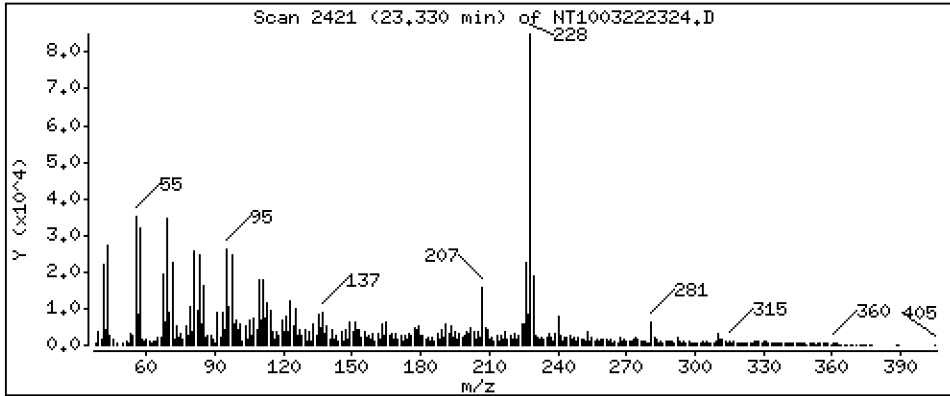
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,7182 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

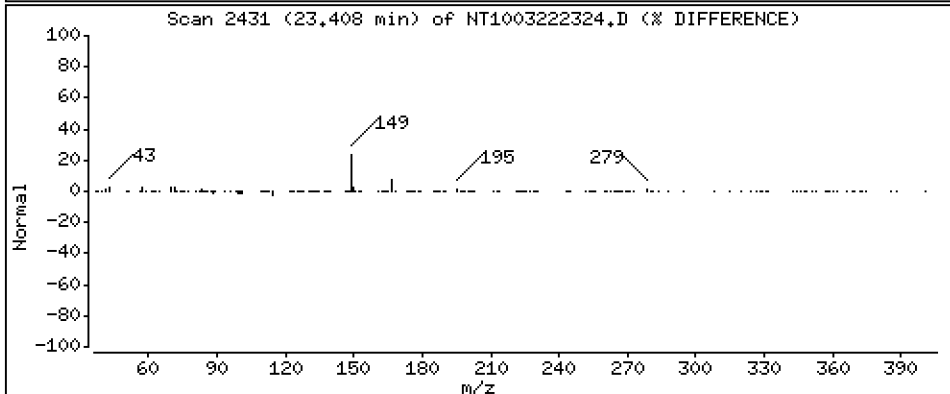
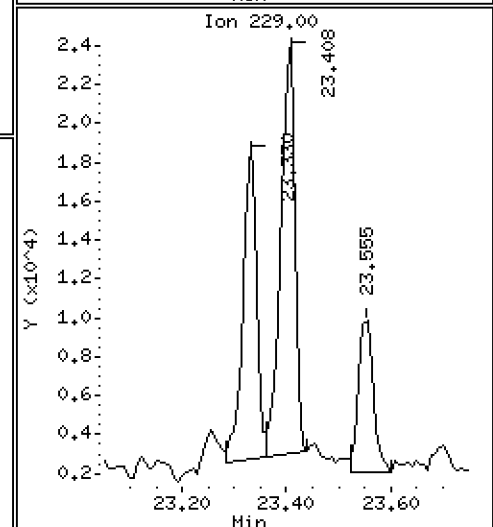
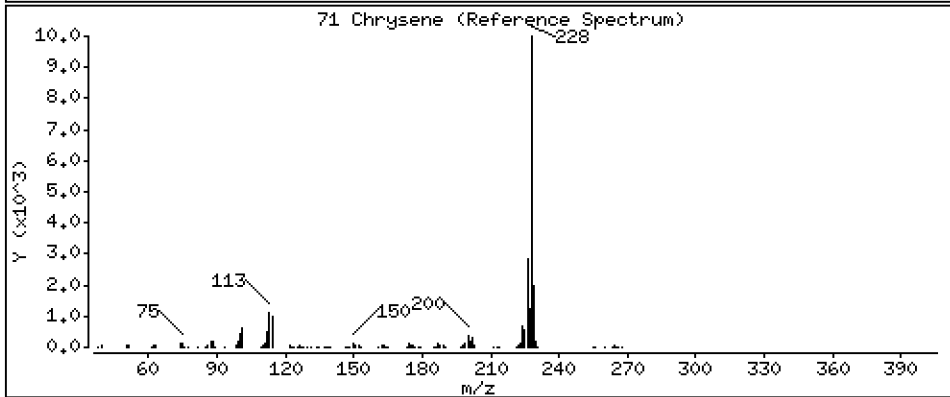
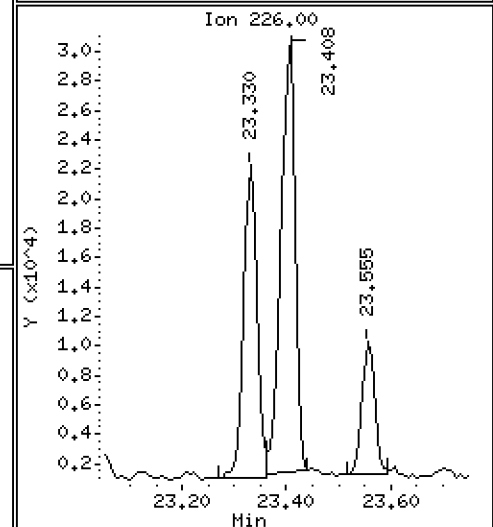
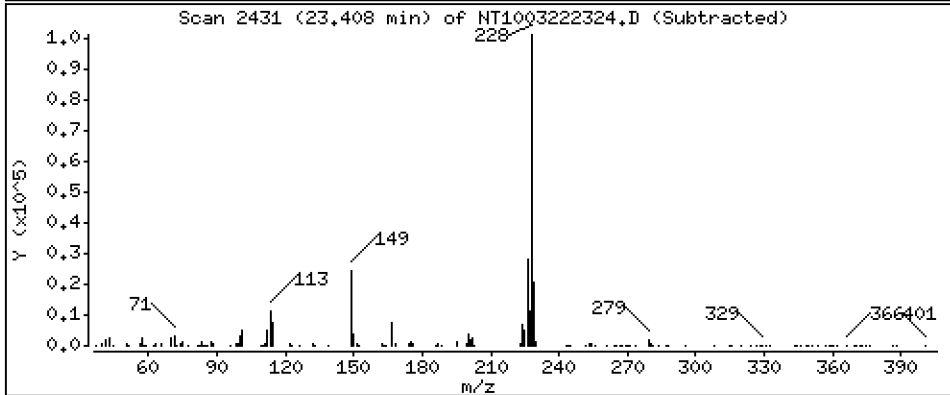
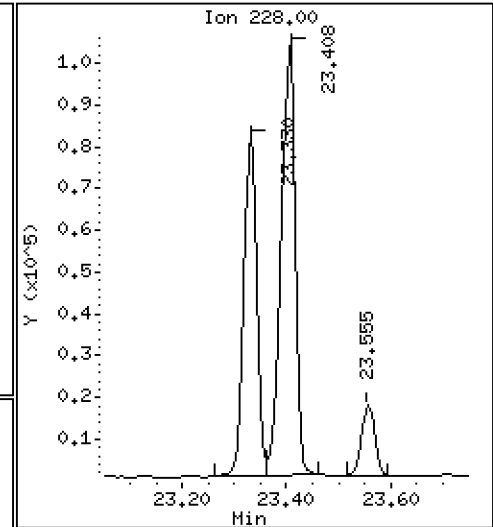
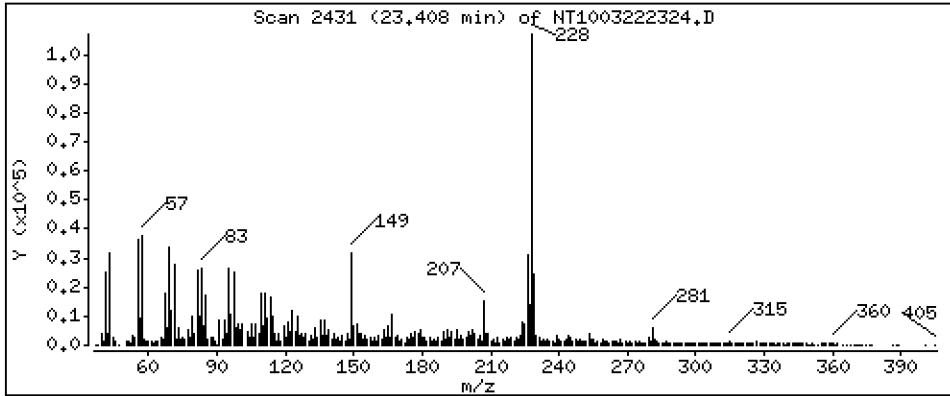
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 1,017 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

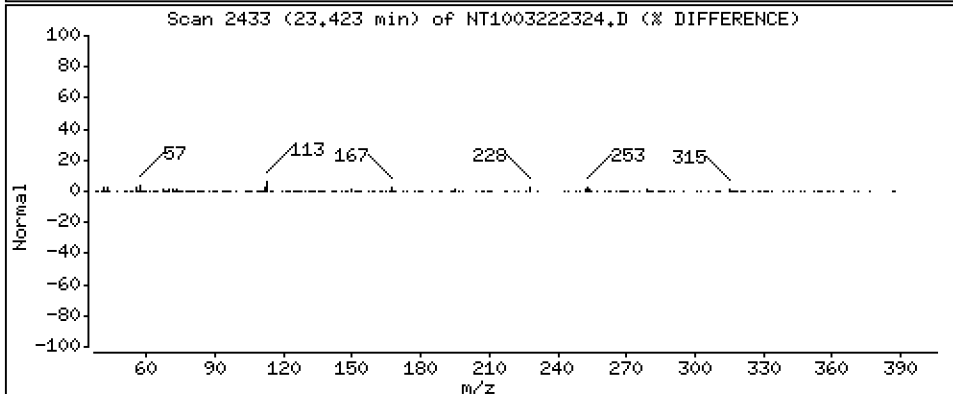
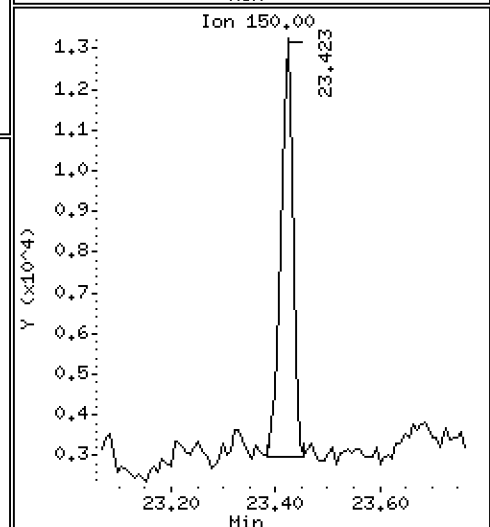
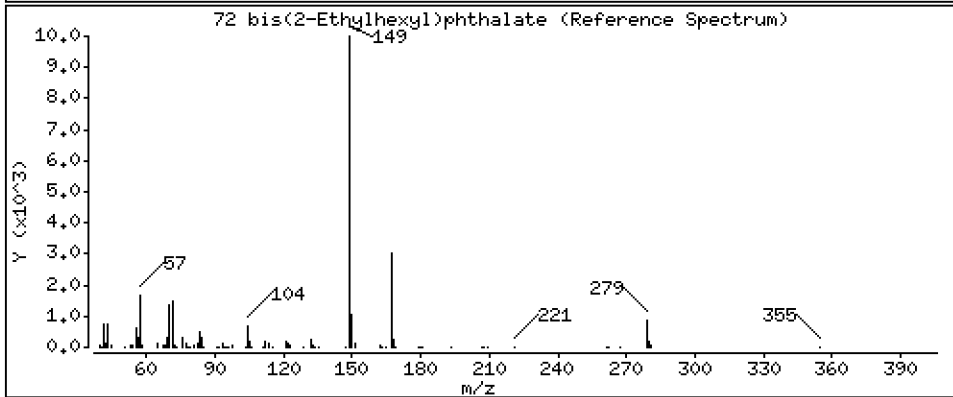
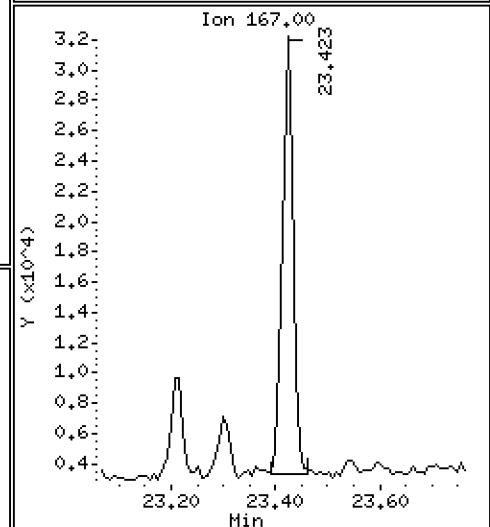
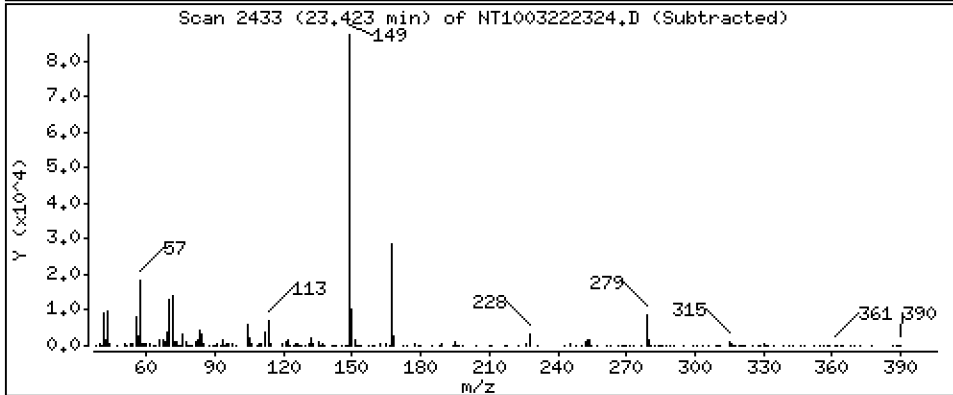
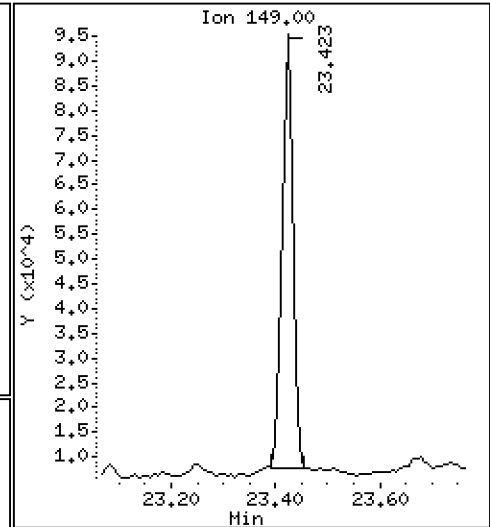
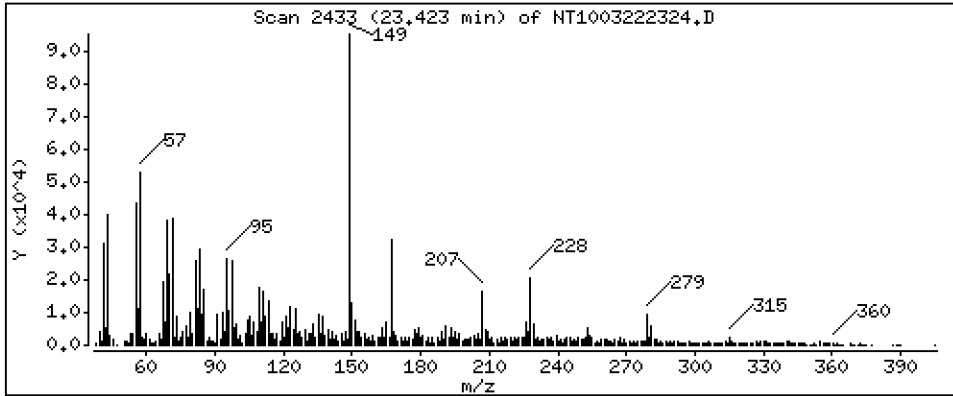
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,9492 ug/mL





Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

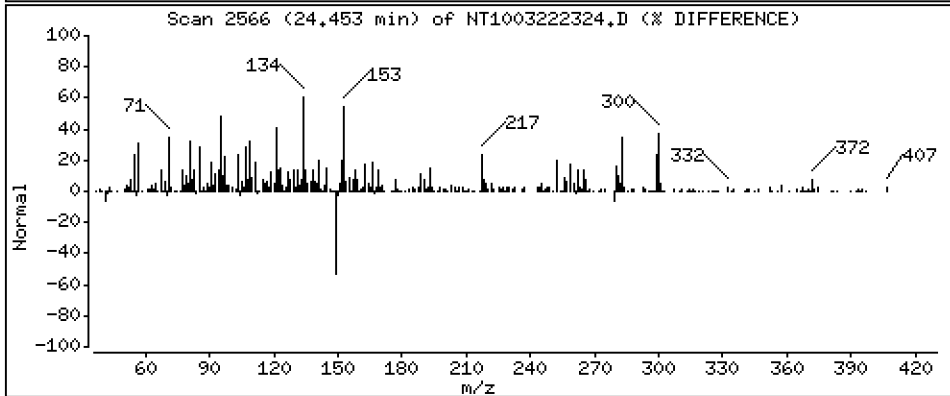
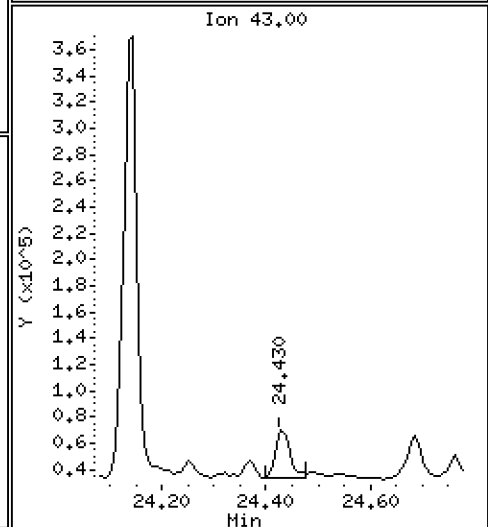
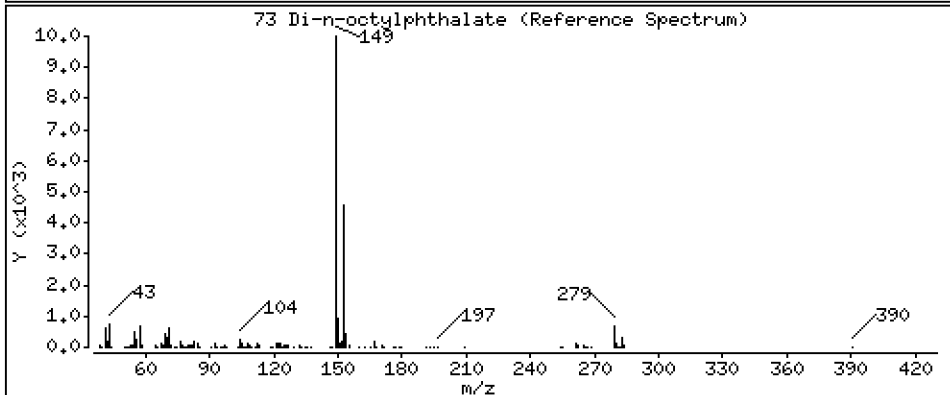
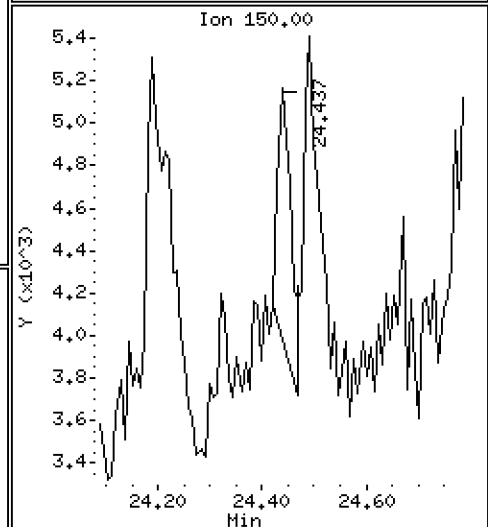
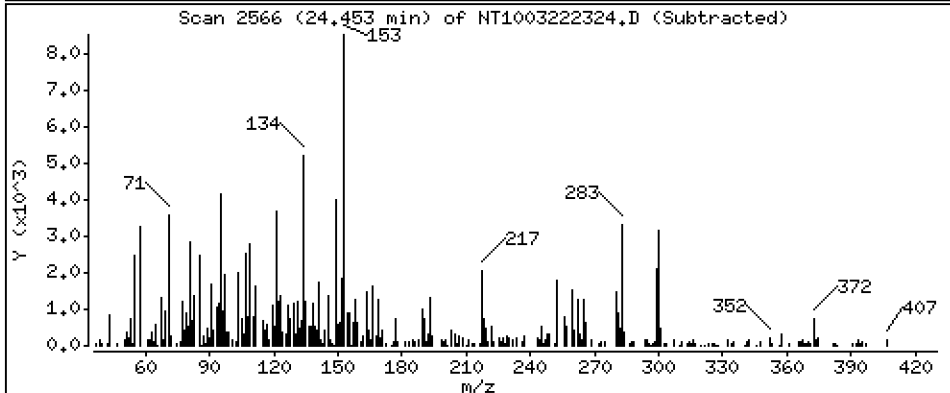
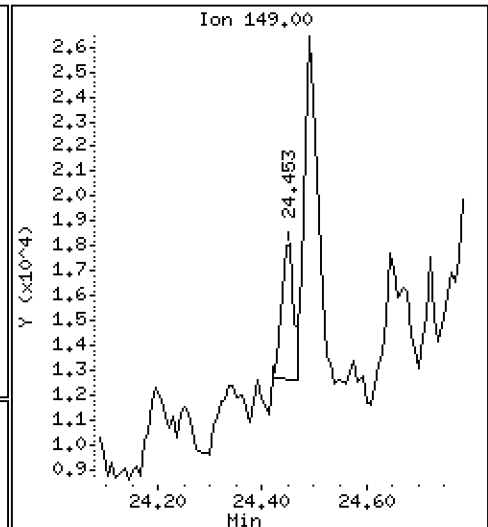
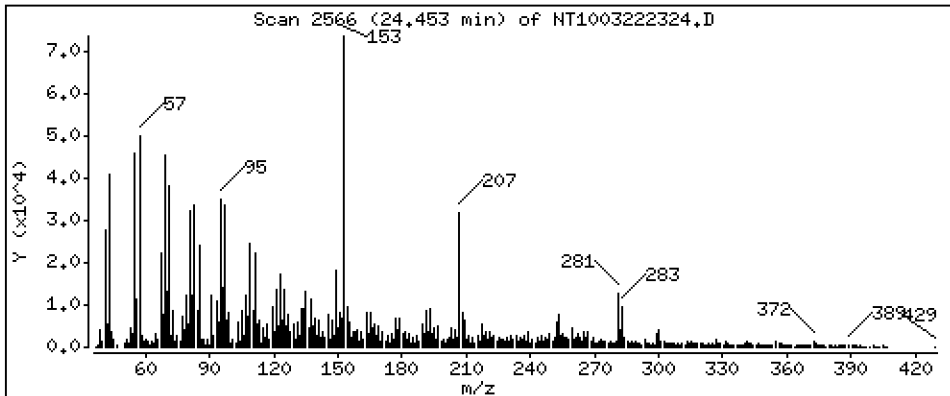
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

73 Di-n-octylphthalate

Concentration: 0.03895 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

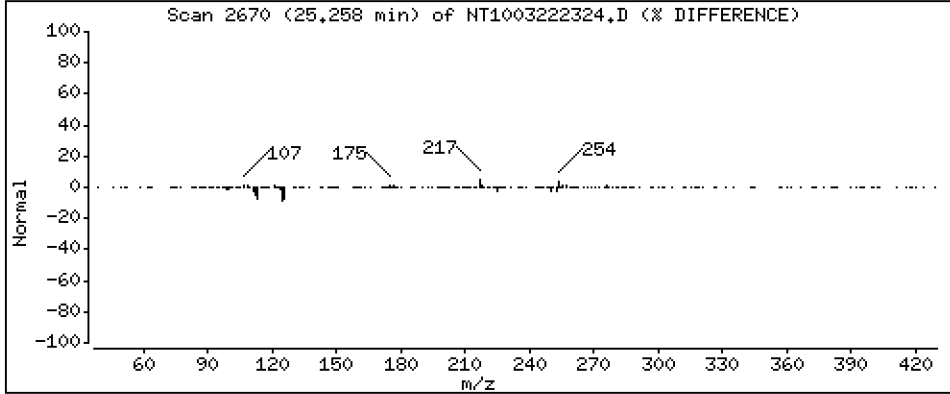
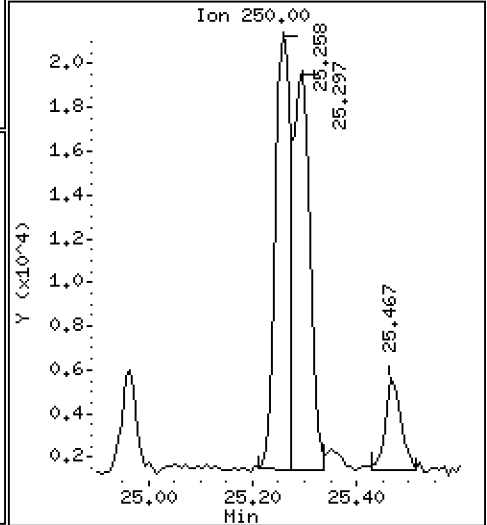
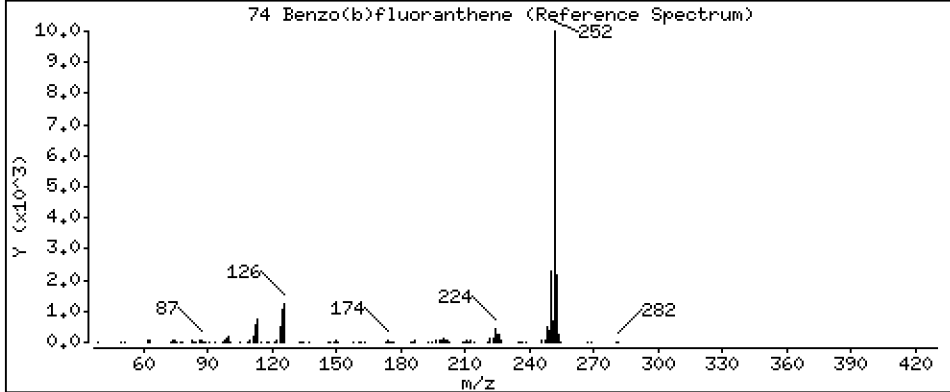
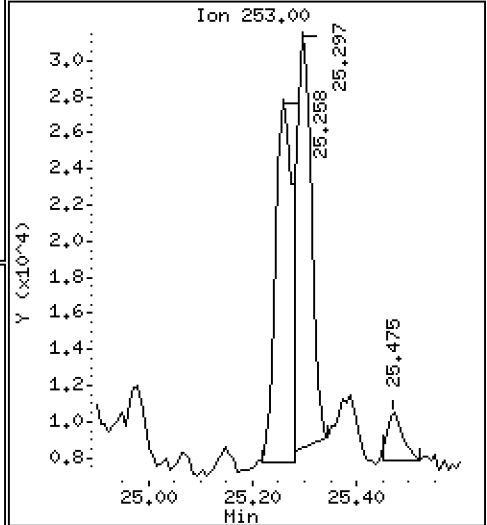
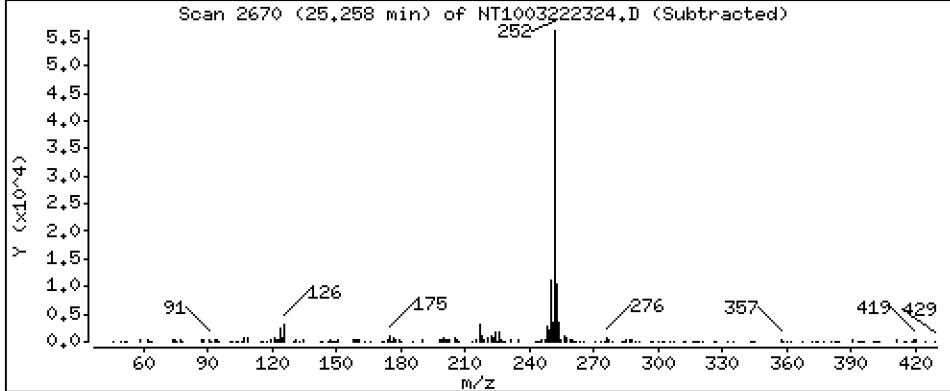
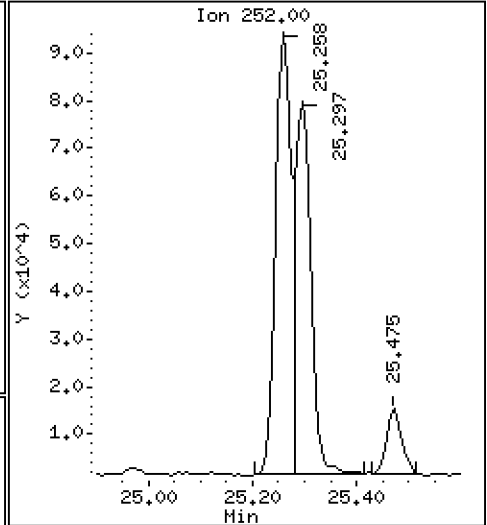
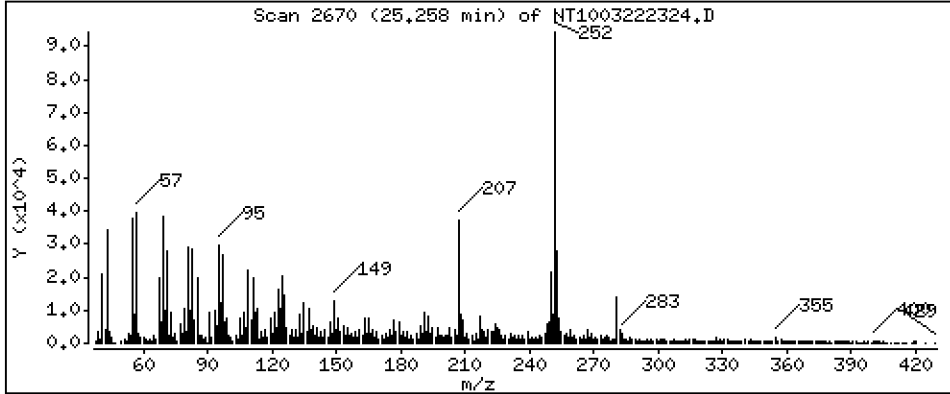
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 1,034 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

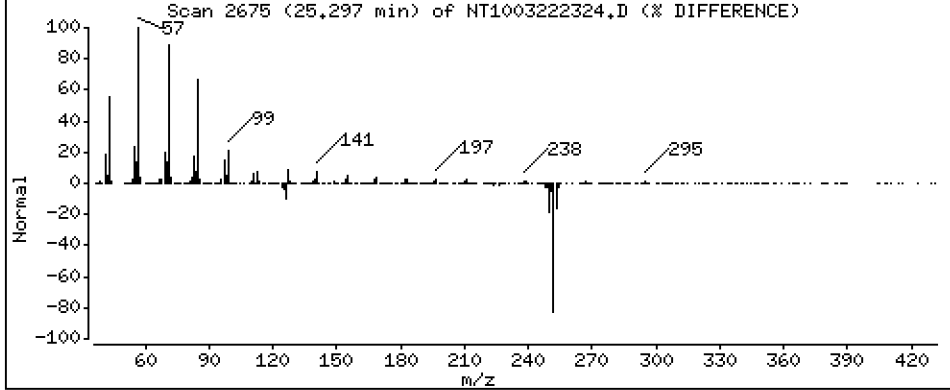
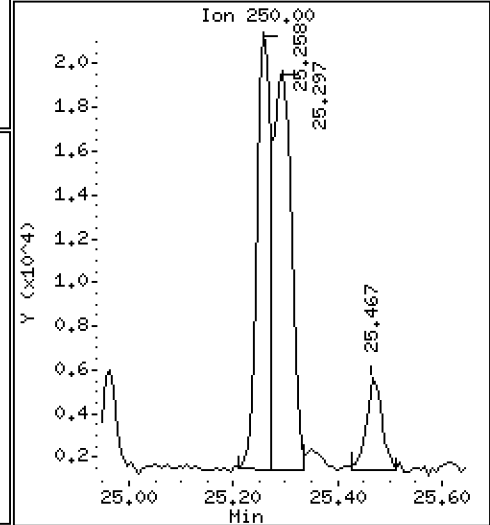
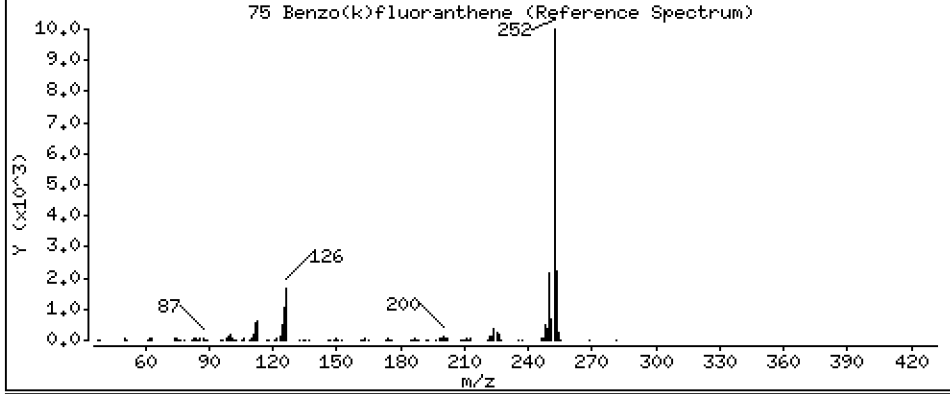
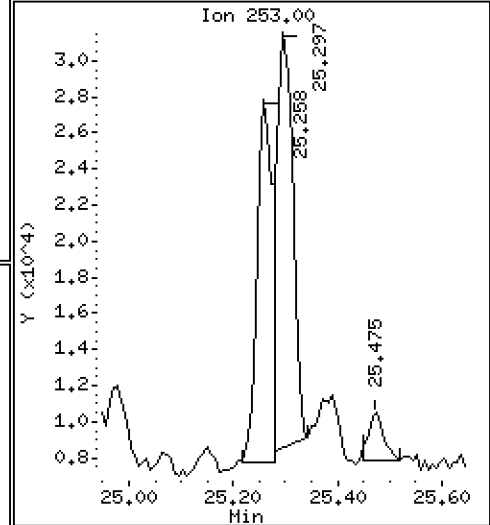
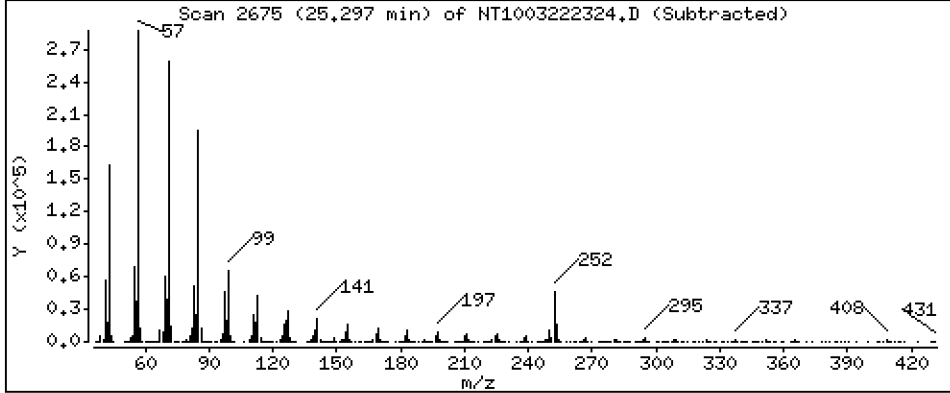
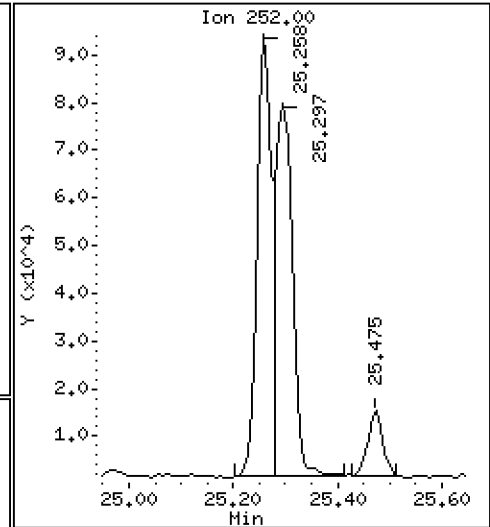
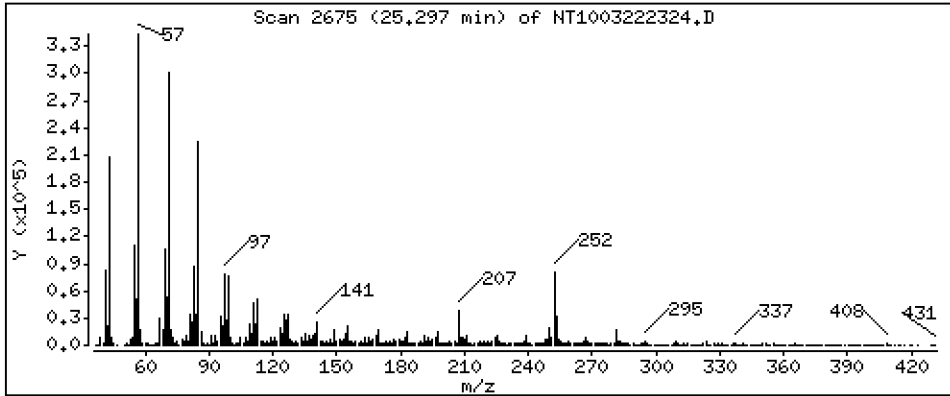
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,8873 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

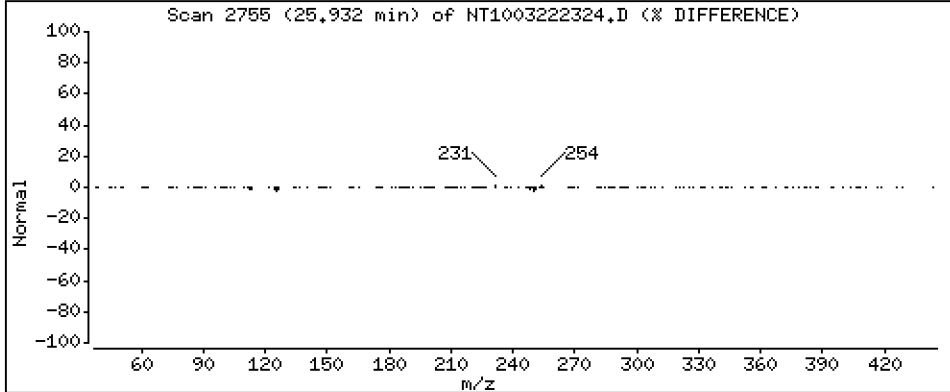
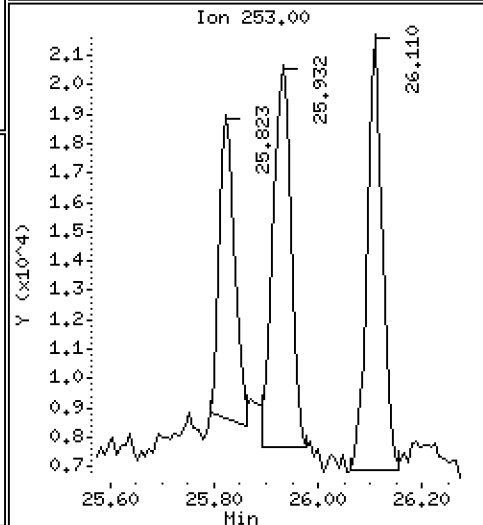
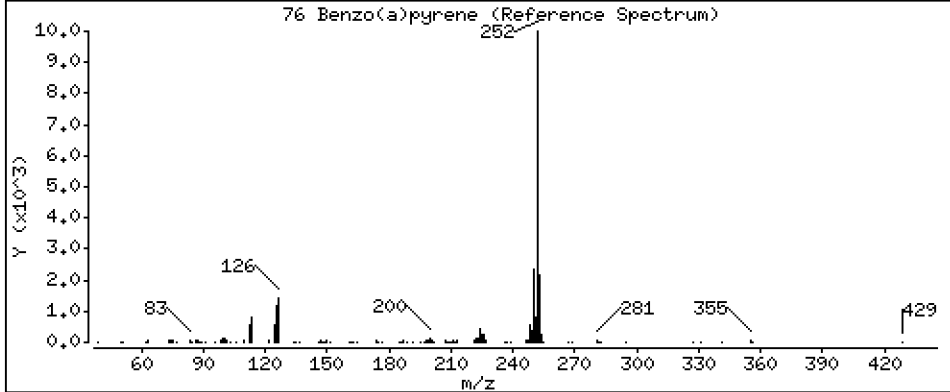
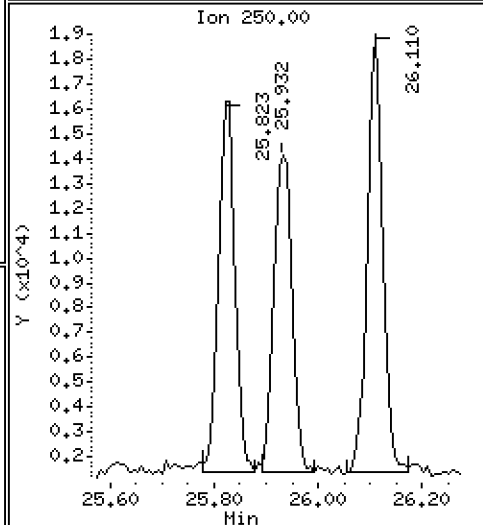
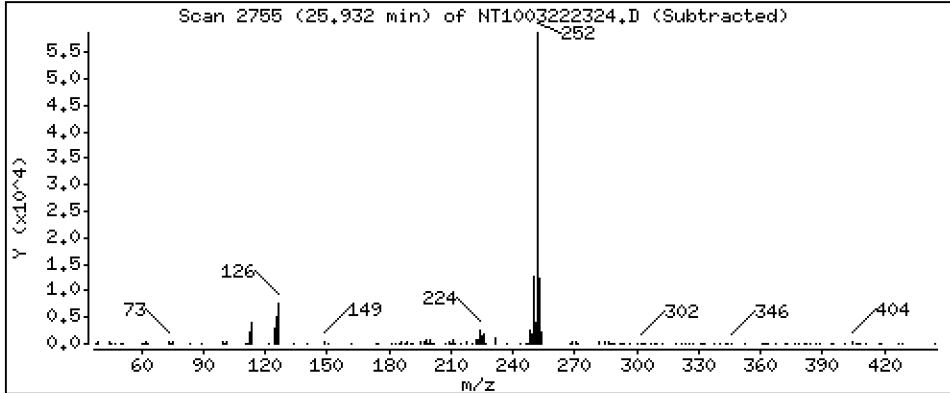
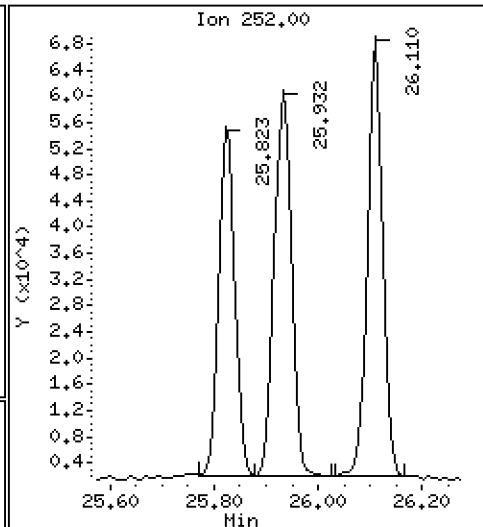
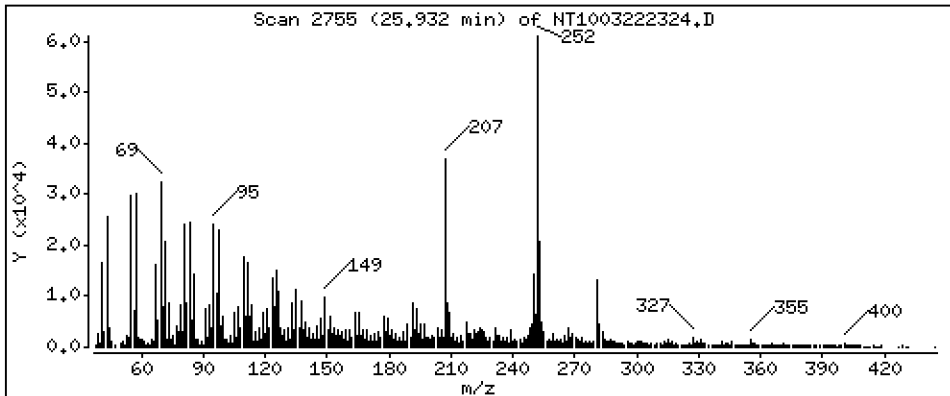
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,7763 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

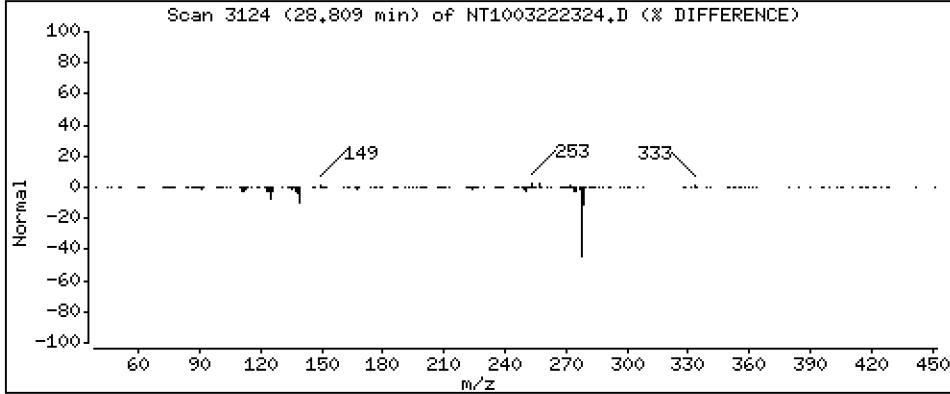
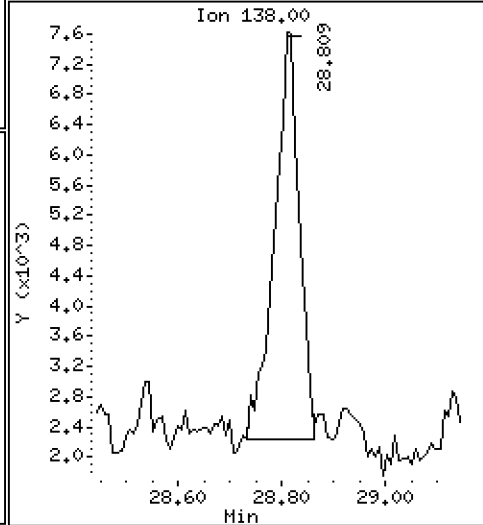
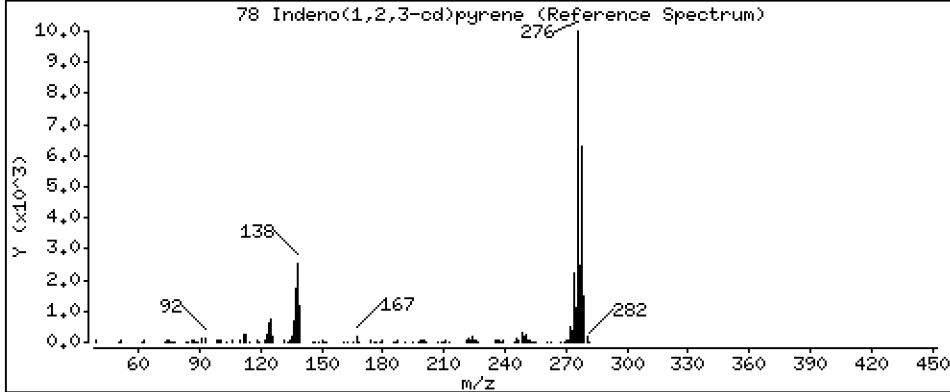
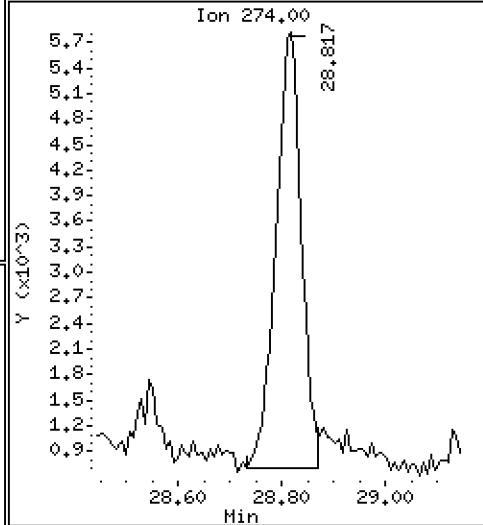
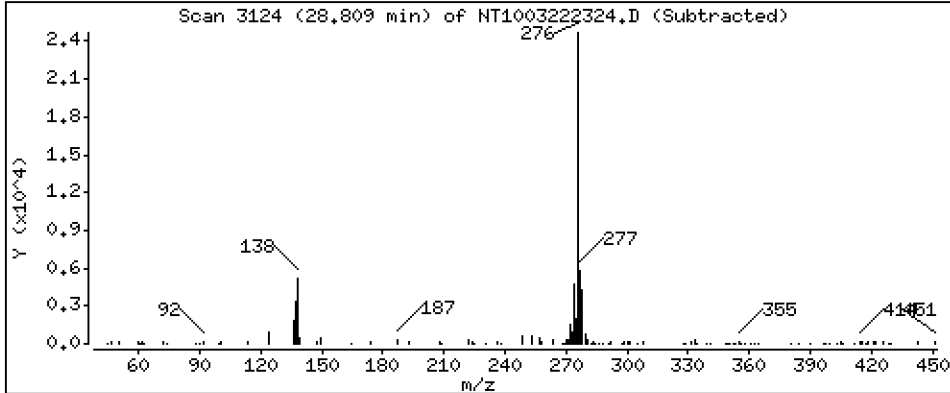
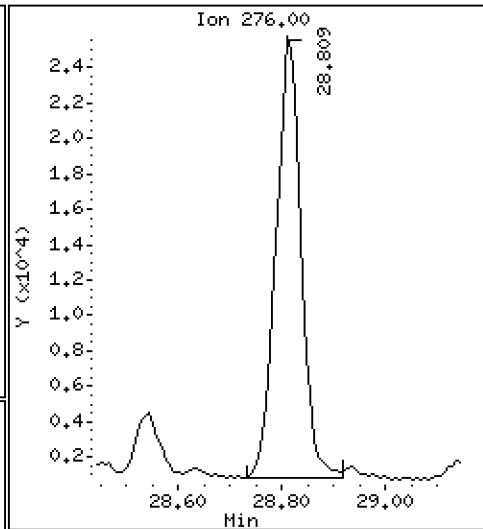
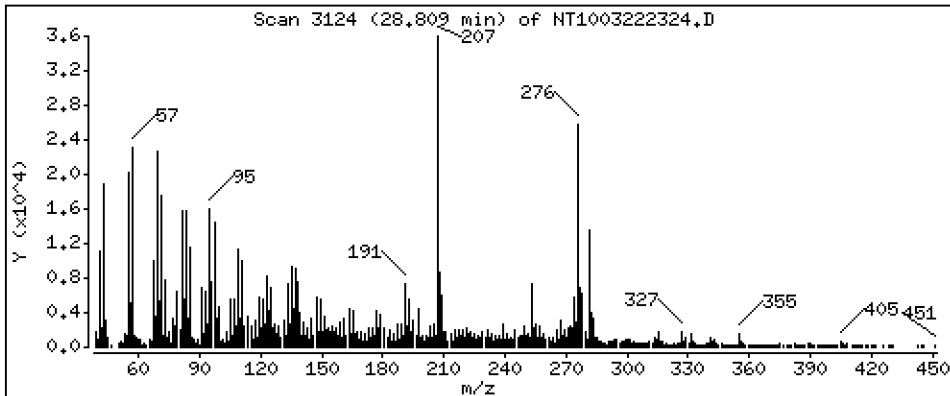
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,3844 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

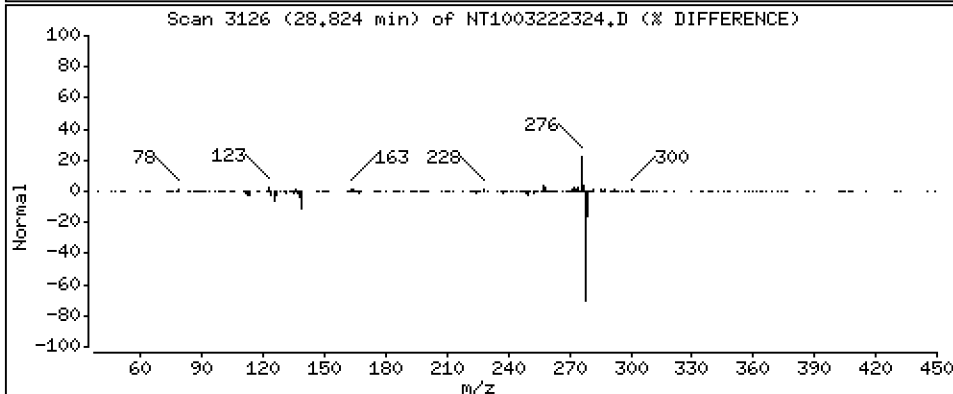
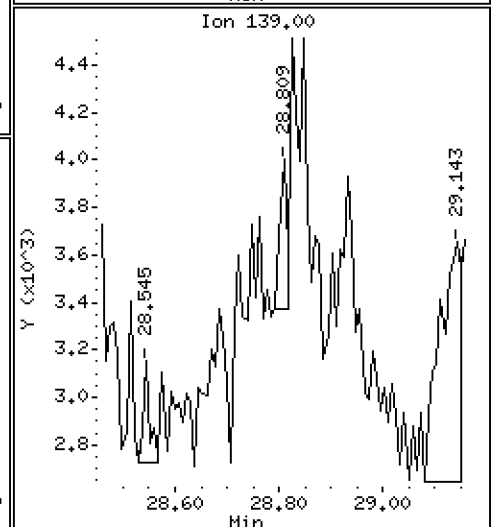
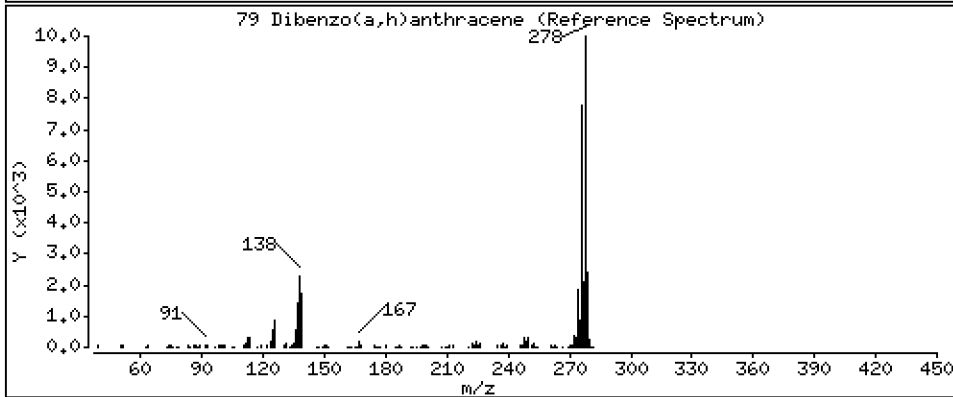
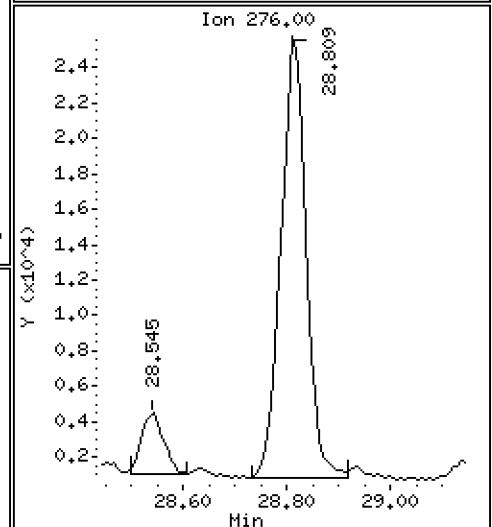
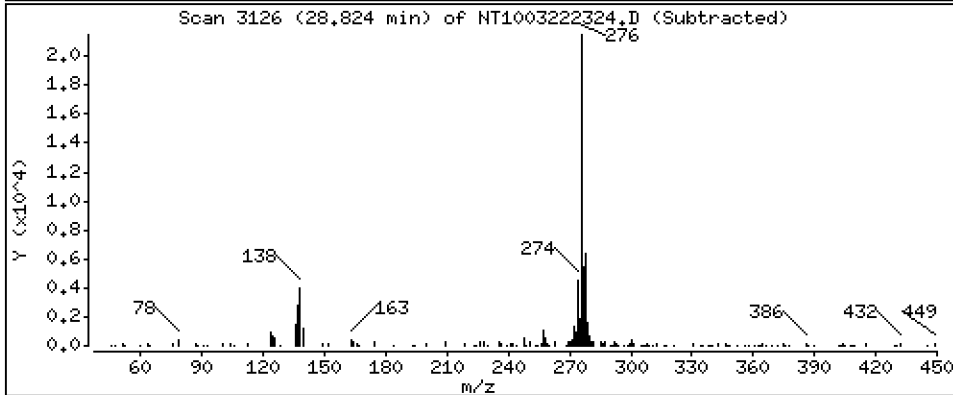
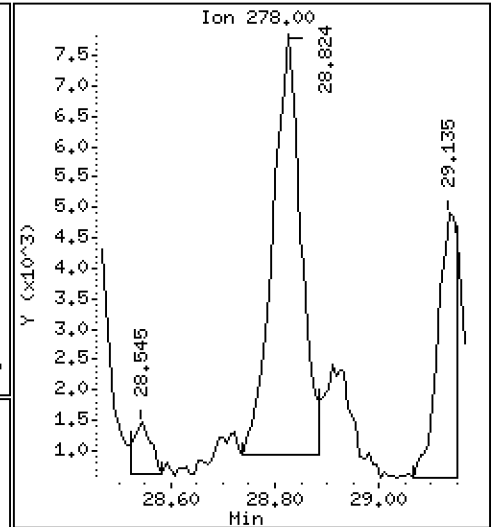
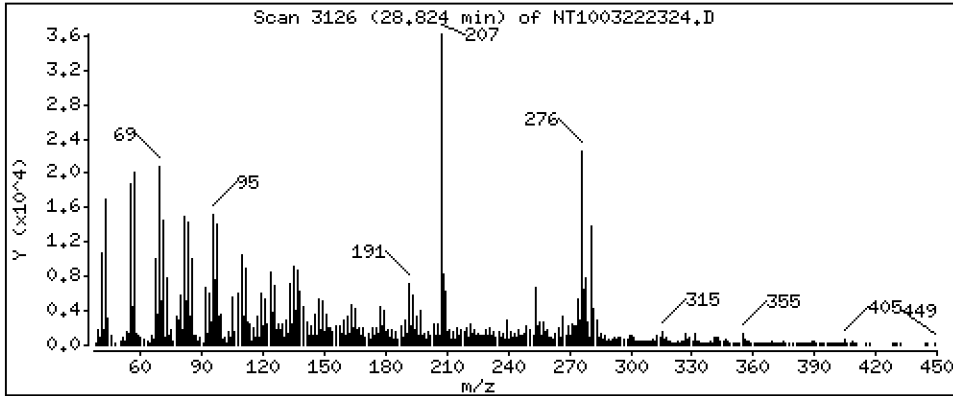
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1422 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

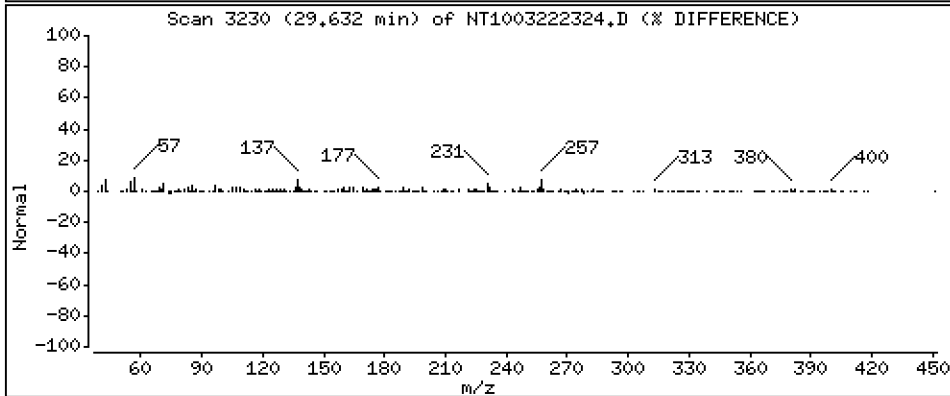
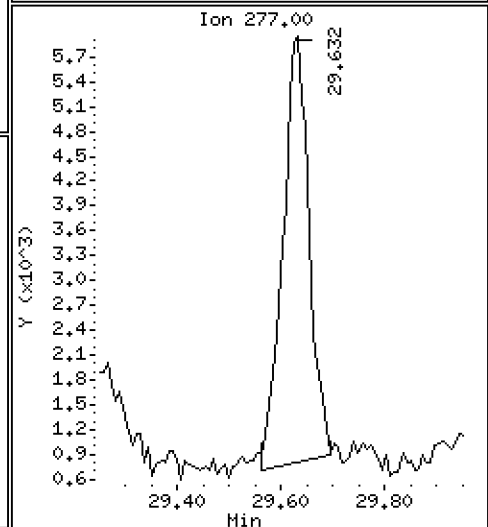
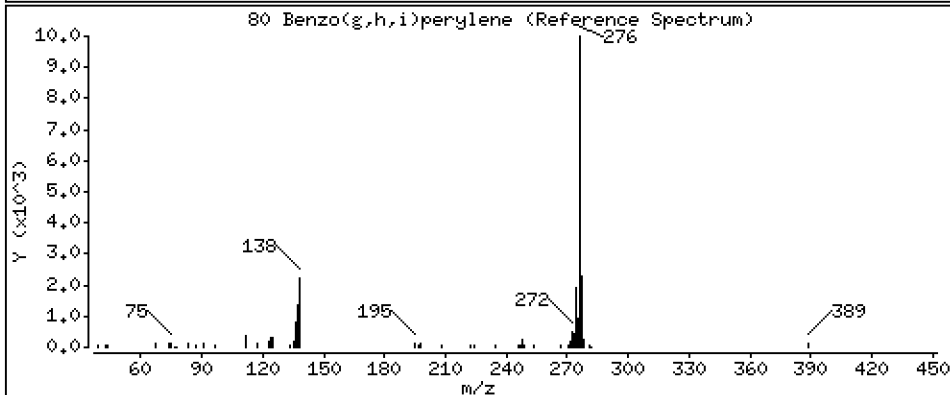
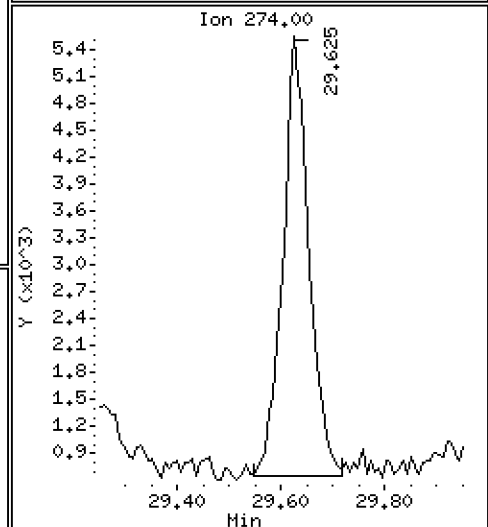
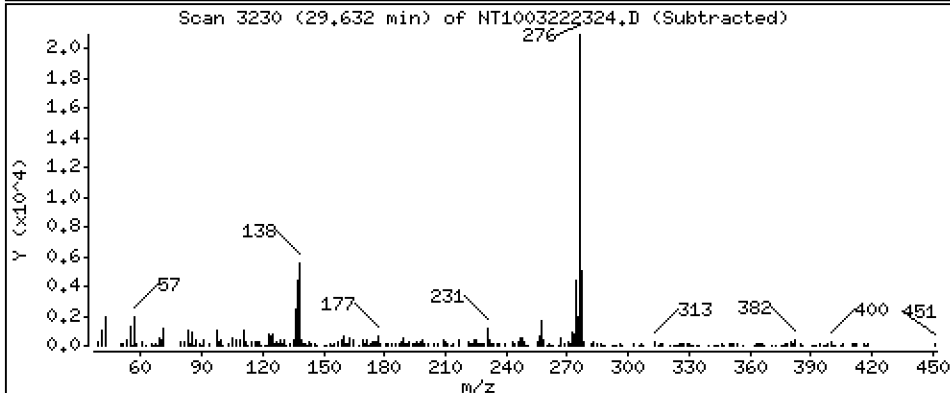
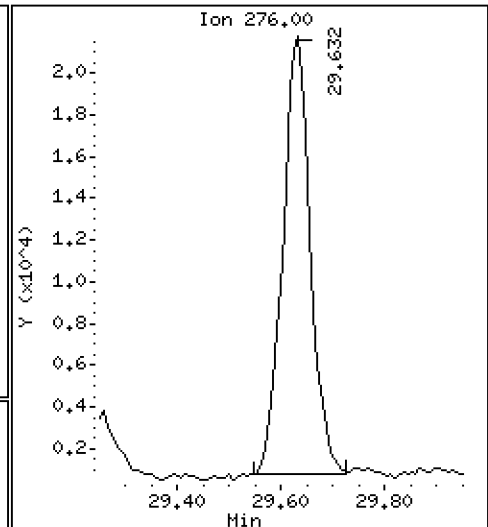
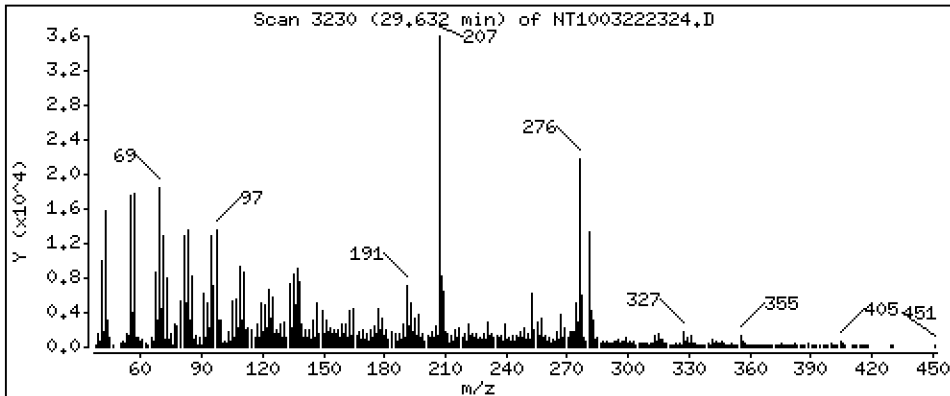
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,4085 ug/mL



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

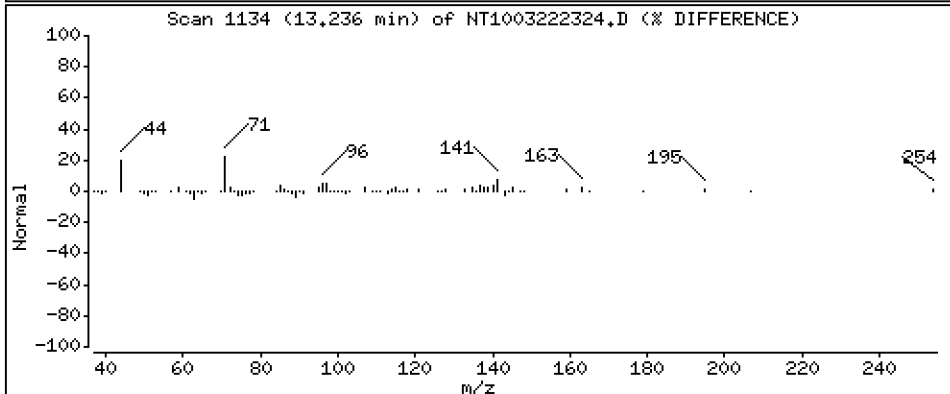
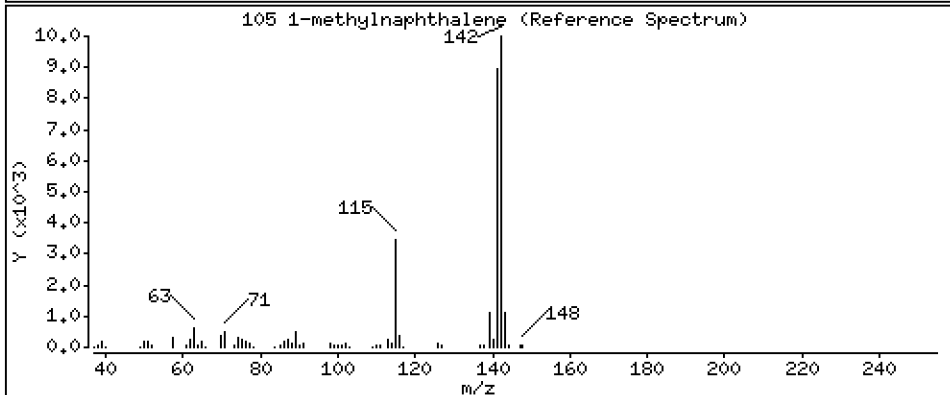
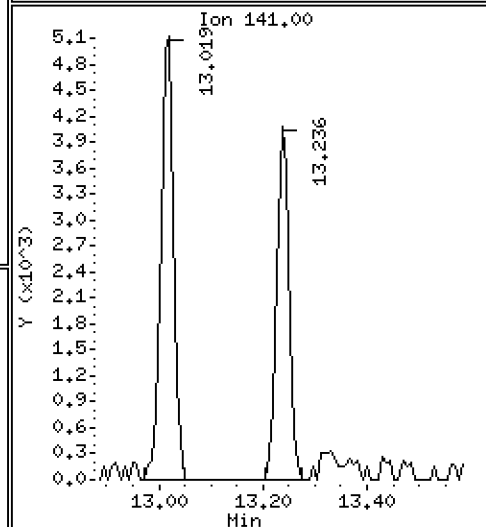
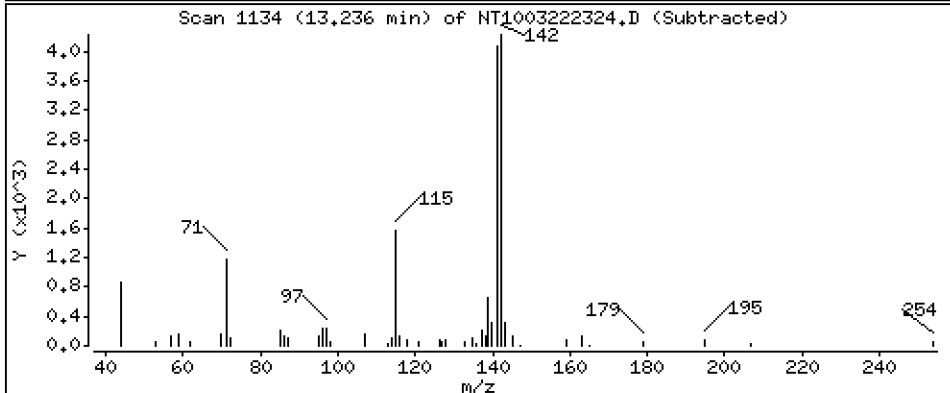
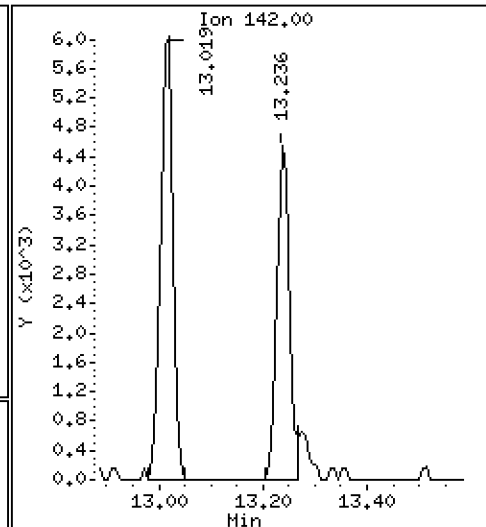
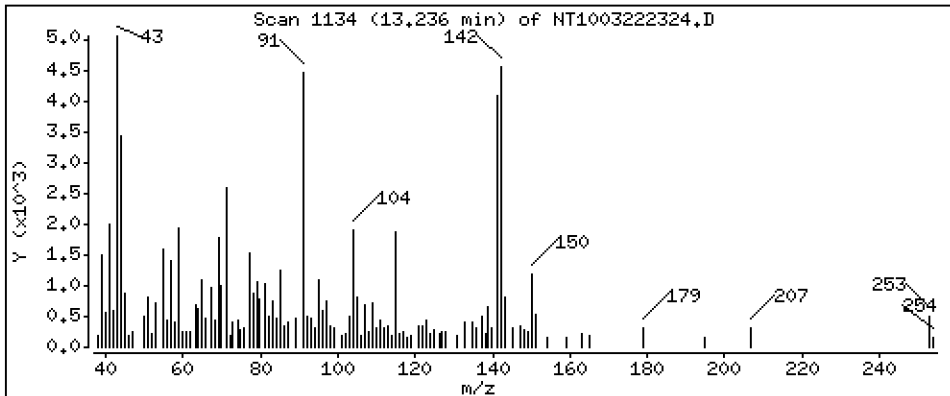
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 0.07582 ug/mL





Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08RE1

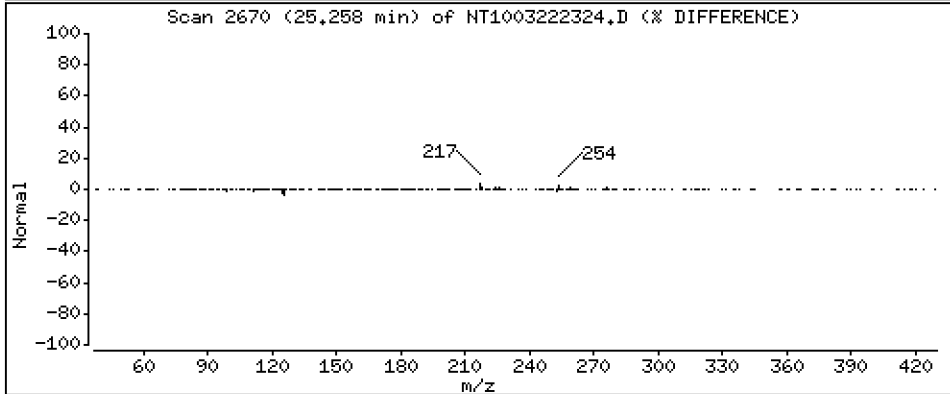
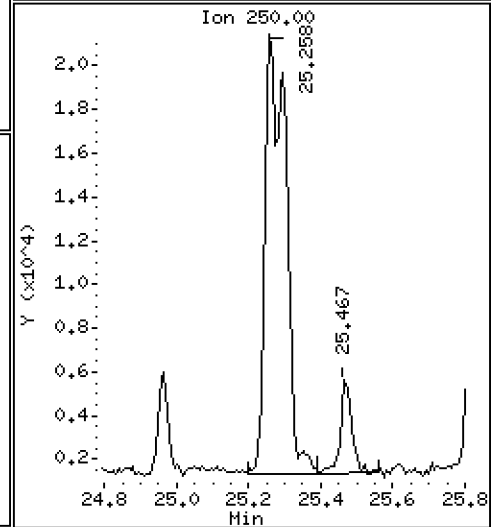
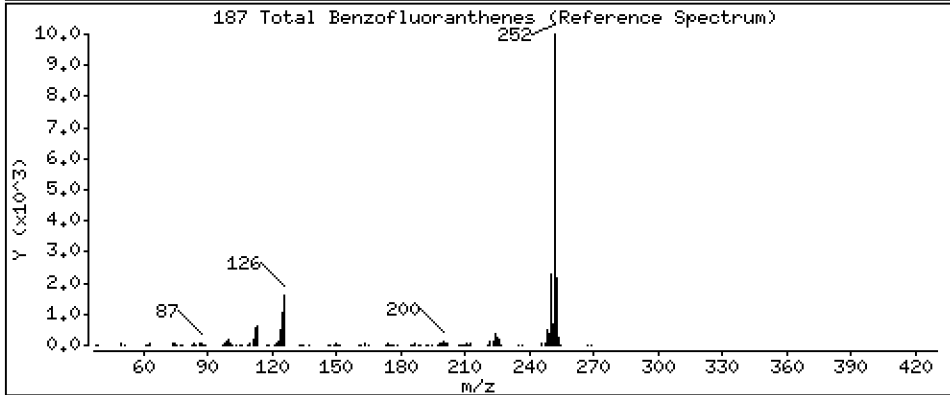
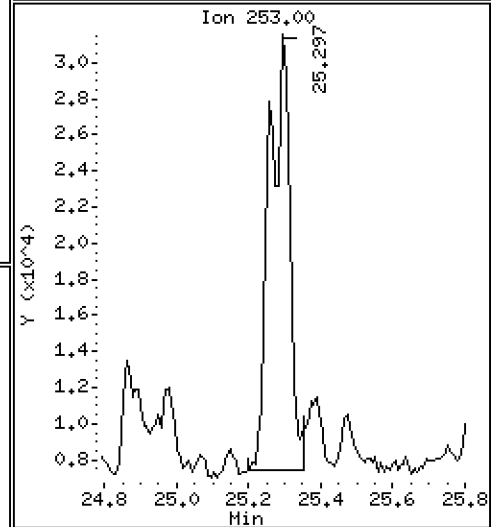
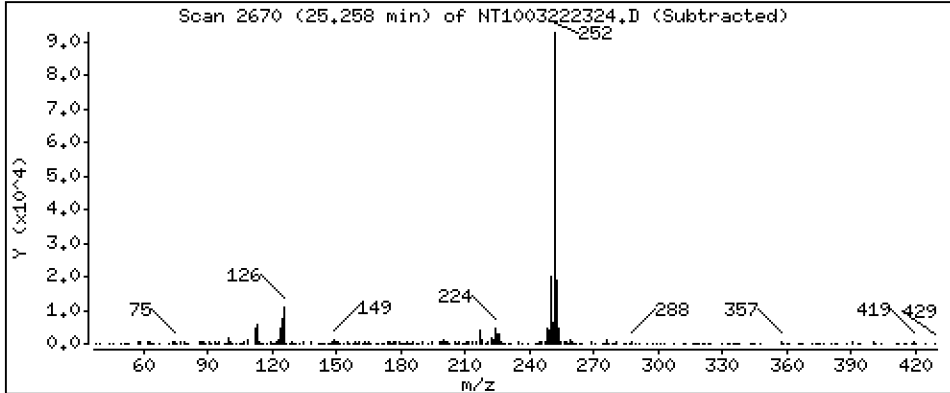
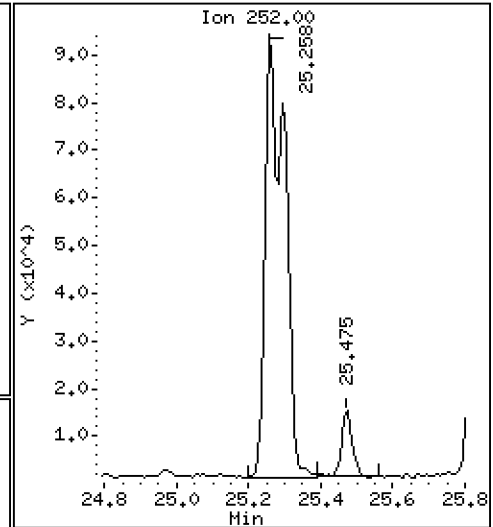
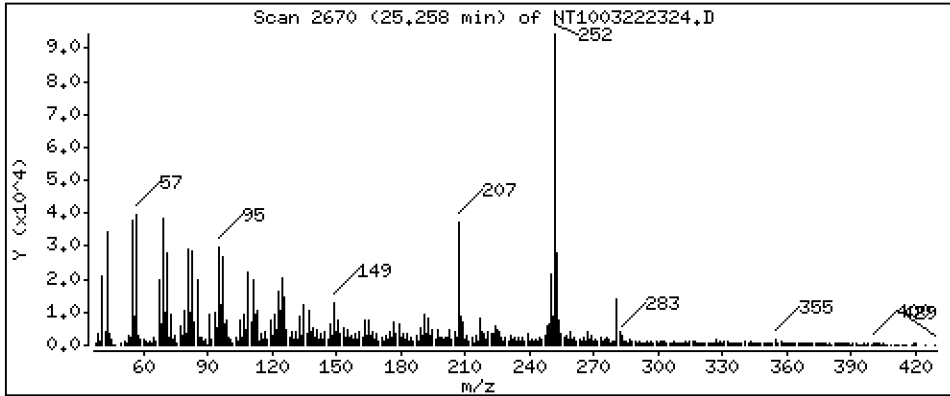
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,862 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222324.D  
 Lab Smp Id: 23A0179-08RE1  
 Inj Date : 23-MAR-2023 07:39  
 Operator : VTS  
 Smp Info : 23A0179-08RE1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 10:11 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 19  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |         |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|---------|
|                                 |       |     |                        |        |         |          | ON-COLUMN      | FINAL   |
|                                 | MASS  |     |                        |        |         |          | (ug/mL)        | (ug/mL) |
| \$ 1 2-Fluorophenol             | 112   |     | 6.867                  | 6.851  | (0.756) | 249885   | 5.55404        | 5.554   |
| \$ 2 Phenol-d5                  | 99    |     | 8.458                  | 8.450  | (0.931) | 337752   | 5.72245        | 5.722   |
| 3 Phenol                        | 94    |     | 8.474                  | 8.474  | (0.933) | 336907   | 5.49304        | 5.493   |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.729                  | 8.721  | (0.961) | 303536   | 6.02244        | 6.022   |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | Compound Not Detected. |        |         |          |                |         |
| 6 2-Chlorophenol                | 128   |     | Compound Not Detected. |        |         |          |                |         |
| 7 1,3-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |         |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.085                  | 9.085  | (1.000) | 148776   | 4.00000        |         |
| 9 1,4-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |         |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.449                  | 9.441  | (1.040) | 132544   | 3.66189        | 3.662   |
| 12 1,2-Dichlorobenzene          | 146   |     | Compound Not Detected. |        |         |          |                |         |
| 11 Benzyl alcohol               | 108   |     | 9.364                  | 9.356  | (1.031) | 7563     | 0.26271        | 0.2627  |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | Compound Not Detected. |        |         |          |                |         |
| 13 2-Methylphenol               | 108   |     | 9.597                  | 9.589  | (1.056) | 1531     | 0.03424        | 0.03424 |
| 17 Hexachloroethane             | 117   |     | Compound Not Detected. |        |         |          |                |         |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | Compound Not Detected. |        |         |          |                |         |
| 15 4-Methylphenol               | 108   |     | 9.861                  | 9.861  | (1.085) | 29947    | 0.63570        | 0.6357  |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.187                 | 10.179 | (0.880) | 213392   | 3.83956        | 3.840   |
| 19 Nitrobenzene                 | 77    |     | Compound Not Detected. |        |         |          |                |         |
| 20 Isophorone                   | 82    |     | Compound Not Detected. |        |         |          |                |         |
| 21 2-Nitrophenol                | 139   |     | Compound Not Detected. |        |         |          |                |         |
| 22 2,4-Dimethylphenol           | 107   |     | 10.909                 | 10.901 | (0.942) | 2835     | 0.05659        | 0.05659 |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | Compound Not Detected. |        |         |          |                |         |
| 24 Benzoic acid                 | 105   |     | 11.020                 | 11.105 | (0.952) | 26444    | 0.94888        | 0.9489  |
| 25 2,4-Dichlorophenol           | 162   |     | Compound Not Detected. |        |         |          |                |         |
| 26 1,2,4-Trichlorobenzene       | 180   |     | Compound Not Detected. |        |         |          |                |         |
| * 27 Naphthalene-d8             | 136   |     | 11.580                 | 11.572 | (1.000) | 550617   | 4.00000        |         |
| 28 Naphthalene                  | 128   |     | 11.619                 | 11.618 | (1.003) | 16432    | 0.11265        | 0.1127  |
| 29 4-Chloroaniline              | 127   |     | Compound Not Detected. |        |         |          |                |         |
| 30 Hexachlorobutadiene          | 225   |     | Compound Not Detected. |        |         |          |                |         |
| 31 4-Chloro-3-methylphenol      | 107   |     | Compound Not Detected. |        |         |          |                |         |
| 32 2-Methylnaphthalene          | 142   |     | 13.019                 | 13.018 | (1.124) | 9931     | 0.09434        | 0.09434 |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                |         |

| Compounds                         | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
|                                   |       |     |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| \$ 36 2-Fluorobiphenyl            | 172   |     | 13.800 | 13.800 | (0.908) | 495433   | 4.07683              | 4.077            |
| 37 2-Chloronaphthalene            | 162   |     |        |        |         |          |                      |                  |
| 38 2-Nitroaniline                 | 65    |     |        |        |         |          |                      |                  |
| 39 Dimethylphthalate              | 163   |     |        |        |         |          |                      |                  |
| 40 Acenaphthylene                 | 152   |     | 14.884 | 14.884 | (0.979) | 10950    | 0.07141              | 0.07141          |
| 41 2,6-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| * 42 Acenaphthene-d10             | 164   |     | 15.201 | 15.201 | (1.000) | 307211   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 44 Acenaphthene                   | 153   |     | 15.263 | 15.263 | (1.004) | 10935    | 0.11544              | 0.1154           |
| 45 2,4-Dinitrophenol              | 184   |     |        |        |         |          |                      |                  |
| 46 Dibenzofuran                   | 168   |     | 15.595 | 15.595 | (1.026) | 14125    | 0.10112              | 0.1011           |
| 47 4-Nitrophenol                  | 109   |     |        |        |         |          |                      |                  |
| 48 2,4-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| 50 Diethylphthalate               | 149   |     | 16.167 | 16.175 | (1.064) | 23479    | 0.23978              | 0.2398           |
| 49 Fluorene                       | 166   |     | 16.306 | 16.314 | (1.073) | 12931    | 0.11767              | 0.1177           |
| 51 4-Chlorophenyl-phenylether     | 204   |     |        |        |         |          |                      |                  |
| 52 4-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     |        |        |         |          |                      |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     |        |        |         |          |                      |                  |
| \$ 55 2,4,6-Tribromophenol        | 330   |     | 16.854 | 16.846 | (1.109) | 124784   | 8.73300              | 8.733            |
| 56 4-Bromophenyl-phenylether      | 248   |     |        |        |         |          |                      |                  |
| 57 Hexachlorobenzene              | 284   |     |        |        |         |          |                      |                  |
| 58 Pentachlorophenol              | 266   |     |        |        |         |          |                      |                  |
| * 59 Phenanthrene-d10             | 188   |     | 18.261 | 18.260 | (1.000) | 578105   | 4.00000              |                  |
| 60 Phenanthrene                   | 178   |     | 18.307 | 18.307 | (1.003) | 110817   | 0.70299              | 0.7030           |
| 61 Anthracene                     | 178   |     | 18.400 | 18.400 | (1.008) | 46816    | 0.30960              | 0.3096           |
| 62 Carbazole                      | 167   |     | 18.740 | 18.732 | (1.026) | 15752    | 0.11625              | 0.1162           |
| 63 Di-n-butylphthalate            | 149   |     | 19.553 | 19.545 | (1.071) | 7429     | 0.04077              | 0.04077          |
| 64 Fluoranthene                   | 202   |     | 20.744 | 20.713 | (0.888) | 294132   | 1.37937              | 1.379            |
| 65 Pyrene                         | 202   |     | 21.146 | 21.139 | (0.905) | 314798   | 1.43912              | 1.439            |
| \$ 66 Terphenyl-d14               | 244   |     | 21.441 | 21.433 | (0.918) | 683979   | 4.16370              | 4.164            |
| 67 Butylbenzylphthalate           | 149   |     | 22.377 | 22.377 | (0.958) | 7073     | 0.09213              | 0.09213          |
| 68 Benzo(a)anthracene             | 228   |     | 23.330 | 23.322 | (0.999) | 134523   | 0.71817              | 0.7182           |
| * 69 Chrysene-d12                 | 240   |     | 23.361 | 23.353 | (1.000) | 530682   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     |        |        |         |          |                      |                  |
| 71 Chrysene                       | 228   |     | 23.407 | 23.399 | (1.002) | 186192   | 1.01743              | 1.017            |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 23.423 | 23.415 | (0.959) | 123054   | 0.94918              | 0.9492           |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 24.429 | 24.421 | (1.000) | 885973   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149   |     | 24.452 | 24.437 | (1.001) | 9031     | 0.03895              | 0.03895          |
| 74 Benzo(b)fluoranthene           | 252   |     | 25.258 | 25.250 | (0.969) | 200860   | 1.03359              | 1.034            |
| 75 Benzo(k)fluoranthene           | 252   |     | 25.296 | 25.296 | (0.971) | 175084   | 0.88727              | 0.8873           |
| 76 Benzo(a)pyrene                 | 252   |     | 25.931 | 25.923 | (0.995) | 134874   | 0.77628              | 0.7763           |
| * 77 Perylene-d12                 | 264   |     | 26.055 | 26.040 | (1.000) | 599514   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 28.808 | 28.793 | (1.106) | 84979    | 0.38444              | 0.3844           |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 28.824 | 28.816 | (1.106) | 26092    | 0.14218              | 0.1422           |
| 80 Benzo(g,h,i)perylene           | 276   |     | 29.632 | 29.601 | (1.137) | 78137    | 0.40846              | 0.4085           |
| 90 N-Nitrosodimethylamine         | 74    |     |        |        |         |          |                      |                  |
| 91 Aniline                        | 93    |     |        |        |         |          |                      |                  |
| 93 Benzidine                      | 184   |     |        |        |         |          |                      |                  |
| 103 Pyridine                      | 79    |     |        |        |         |          |                      |                  |
| 105 1-methylnaphthalene           | 142   |     | 13.235 | 13.235 | (1.143) | 7313     | 0.07582              | 0.07582          |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     |        |        |         |          |                      |                  |

| Compounds                     | QUANT<br>MASS | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |  |
|-------------------------------|---------------|-----|------------------------|--------|---------|----------|----------------------|------------------|--|
|                               |               |     |                        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |  |
| 187 Total Benzofluoranthenes  | 252           |     | 25.258                 | 25.296 | (0.969) | 349438   | 1.86235              | 1.862            |  |
| 120 2,3,4,6-Tetrachlorophenol | 232           |     | Compound Not Detected. |        |         |          |                      |                  |  |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-MAR-2023  
 Lab File ID: NT1003222324.D Calibration Time: 03:15  
 Lab Smp Id: 23A0179-08RE1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 137603   | 68802      | 275206  | 148776 | 8.12  |
| 27 Naphthalene-d8     | 494588   | 247294     | 989176  | 550617 | 11.33 |
| 42 Acenaphthene-d10   | 278674   | 139337     | 557348  | 307211 | 10.24 |
| 59 Phenanthrene-d10   | 509229   | 254615     | 1018458 | 578105 | 13.53 |
| 69 Chrysene-d12       | 462271   | 231136     | 924542  | 530682 | 14.80 |
| 134 Di-n-octylphthala | 782572   | 391286     | 1565144 | 885973 | 13.21 |
| 77 Perylene-d12       | 551153   | 275577     | 1102306 | 599514 | 8.77  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.09     | 8.59     | 9.59  | 9.09   | 0.00  |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.58  | 0.07  |
| 42 Acenaphthene-d10   | 15.20    | 14.70    | 15.70 | 15.20  | 0.00  |
| 59 Phenanthrene-d10   | 18.26    | 17.76    | 18.76 | 18.26  | 0.00  |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.36  | 0.03  |
| 134 Di-n-octylphthala | 24.42    | 23.92    | 24.92 | 24.43  | 0.03  |
| 77 Perylene-d12       | 26.04    | 25.54    | 26.54 | 26.06  | 0.06  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222324.D

Lab ID: 23A0179-08RE1  
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 07:39

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND     |
|-------|---------|---------|--------------|
| 0.952 | 0.960   | -0.0080 | Benzoic acid |

RRT check based on Ccal File: NT1003222317.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*



Form I  
ORGANIC ANALYSIS DATA SHEET  
EPA 8270E  
Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-09RE1 A

SDG: 23A0179

Sampled: 01/10/23 11:08

Prepared: 03/17/23 11:16

File ID: NT1003222325.D

% Solids: 53.02

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 08:17

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 18.88 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| CAS NO.  | COMPOUND                    | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|-----------------------------|----------|----------------------|---|------|------|
| 108-95-2 | Phenol                      | 1        | 655                  |   | 4.4  | 20.0 |
| 106-44-5 | 4-Methylphenol              | 1        | 131                  |   | 7.4  | 20.0 |
| 91-20-3  | Naphthalene                 | 1        | 11.3                 | J | 4.2  | 20.0 |
| 91-57-6  | 2-Methylnaphthalene         | 1        | 10.2                 | J | 4.5  | 20.0 |
| 208-96-8 | Acenaphthylene              | 1        | 8.2                  | J | 6.2  | 20.0 |
| 131-11-3 | Dimethylphthalate           | 1        | 20.0                 | U | 4.4  | 20.0 |
| 83-32-9  | Acenaphthene                | 1        | 13.1                 | J | 5.2  | 20.0 |
| 132-64-9 | Dibenzofuran                | 1        | 15.0                 | J | 14.1 | 20.0 |
| 86-73-7  | Fluorene                    | 1        | 22.2                 |   | 14.6 | 20.0 |
| 85-01-8  | Phenanthrene                | 1        | 148                  |   | 8.7  | 20.0 |
| 120-12-7 | Anthracene                  | 1        | 65.8                 |   | 7.2  | 20.0 |
| 206-44-0 | Fluoranthene                | 1        | 310                  |   | 6.1  | 20.0 |
| 129-00-0 | Pyrene                      | 1        | 252                  |   | 5.7  | 20.0 |
| 85-68-7  | Butylbenzylphthalate        | 1        | 20.0                 | U | 9.4  | 20.0 |
| 56-55-3  | Benzo(a)anthracene          | 1        | 134                  |   | 6.0  | 20.0 |
| 218-01-9 | Chrysene                    | 1        | 175                  |   | 6.1  | 20.0 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate  | 1        | 90.9                 |   | 5.5  | 49.9 |
|          | Benzo(a)fluoranthene, Total | 1        | 241                  |   | 10.0 | 40.0 |
| 50-32-8  | Benzo(a)pyrene              | 1        | 92.4                 |   | 4.2  | 20.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene      | 1        | 40.4                 |   | 14.6 | 20.0 |
| 53-70-3  | Dibenzo(a,h)anthracene      | 1        | 20.0                 | U | 17.2 | 20.0 |
| 191-24-2 | Benzo(g,h,i)perylene        | 1        | 41.9                 |   | 13.6 | 20.0 |

| SURROGATES             | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol         | 749.24                | 390                   | 52.1  | 27 - 120  |   |
| Phenol-d5              | 749.24                | 396                   | 52.8  | 29 - 120  |   |
| 2-Chlorophenol-d4      | 749.24                | 416                   | 55.6  | 31 - 120  |   |
| 1,2-Dichlorobenzene-d4 | 499.49                | 257                   | 51.4  | 32 - 120  |   |
| Nitrobenzene-d5        | 499.49                | 270                   | 54.1  | 30 - 120  |   |
| 2-Fluorobiphenyl       | 499.49                | 282                   | 56.5  | 35 - 120  |   |



**Form I**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8270E**  
**Semivolatiles (20ug/kg - 0.2ug/L SepF)**

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-09RE1 A

SDG: 23A0179

Sampled: 01/10/23 11:08

Prepared: 03/17/23 11:16

File ID: NT1003222325.D

% Solids: 53.02

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 08:17

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 18.88 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| SURROGATES           | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------|-----------------------|-----------------------|-------|-----------|---|
| 2,4,6-Tribromophenol | 749.24                | 585                   | 78.1  | 24 - 134  |   |
| p-Terphenyl-d14      | 499.49                | 287                   | 57.5  | 37 - 120  |   |



Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222325.D

Date : 23-MAR-2023 08:17

Client ID:

Sample Info: 23A0179-09RE1

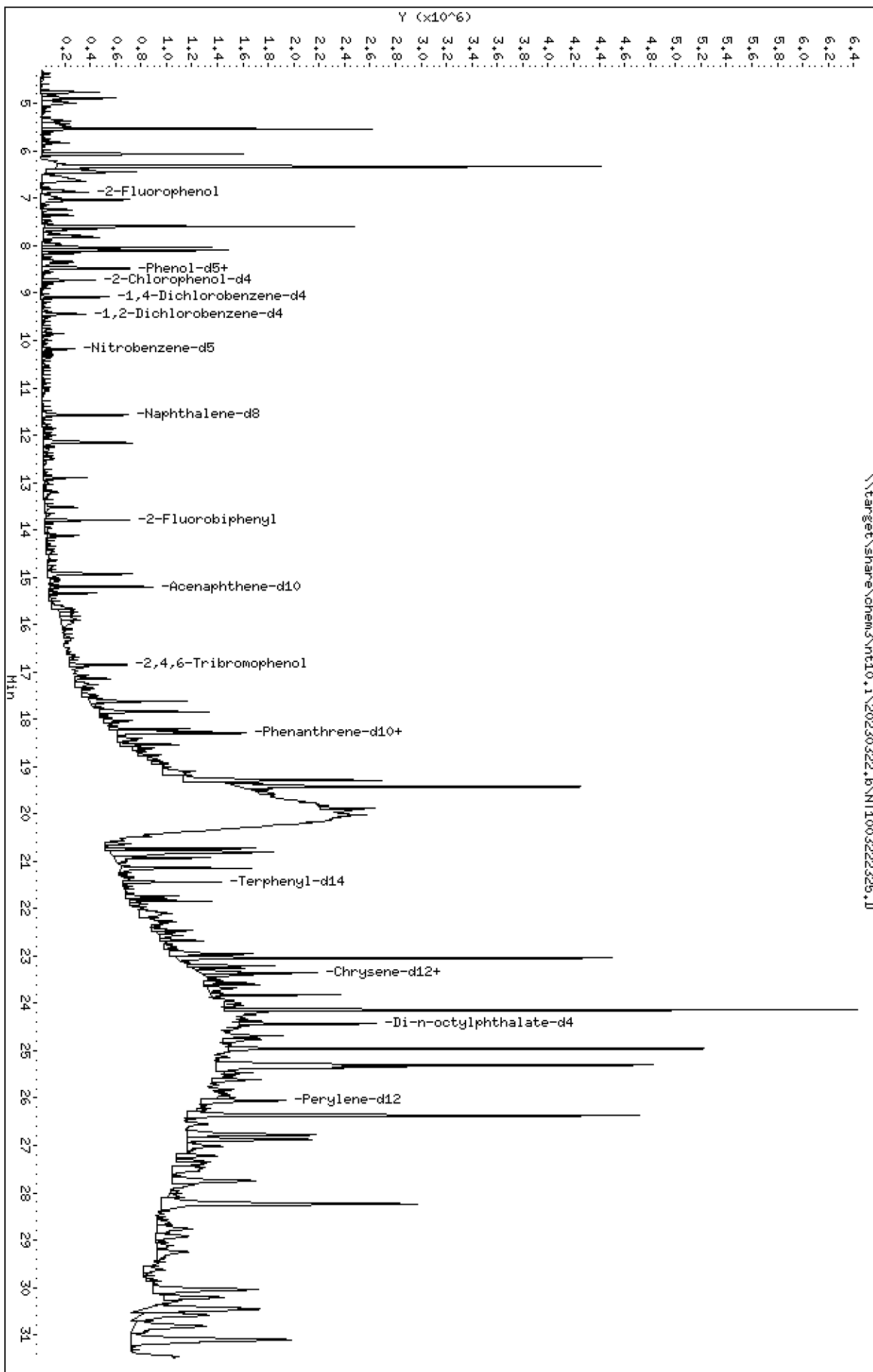
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

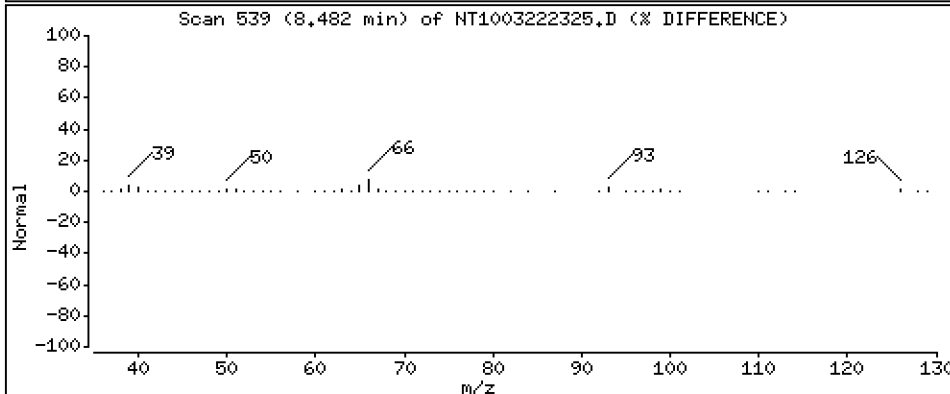
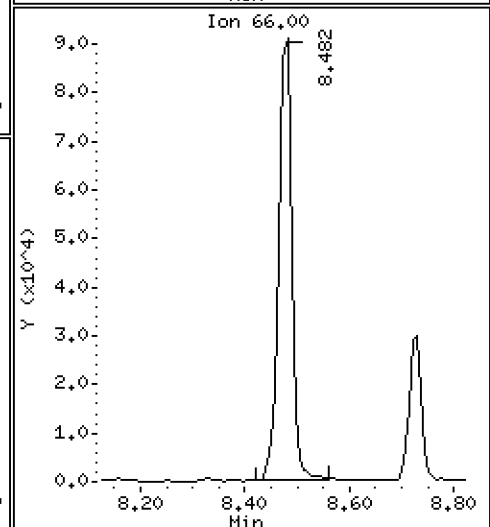
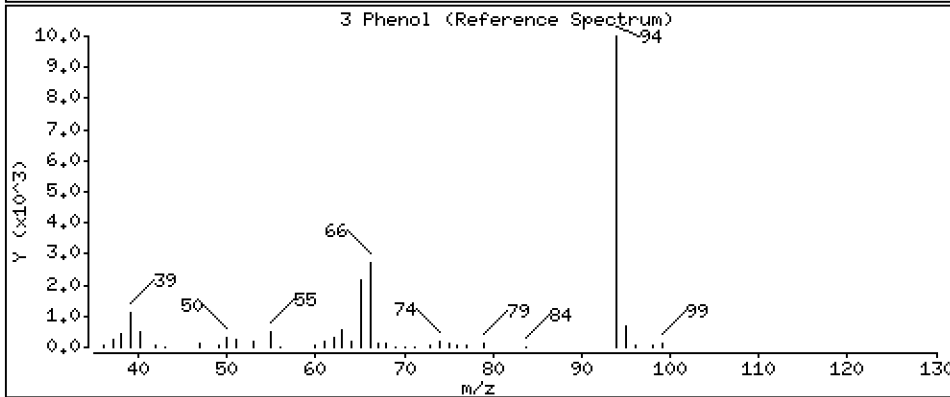
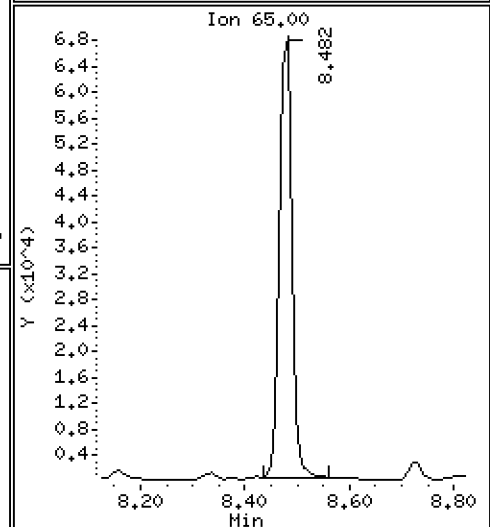
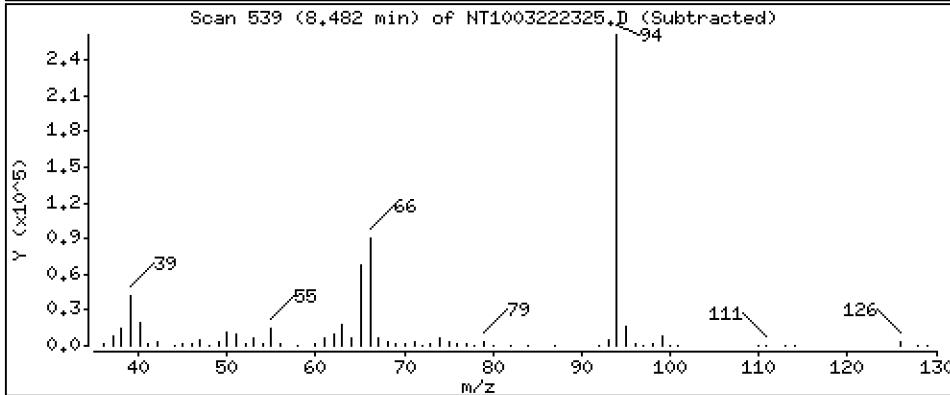
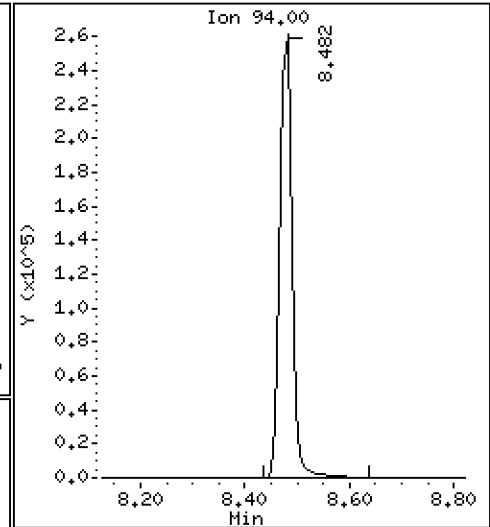
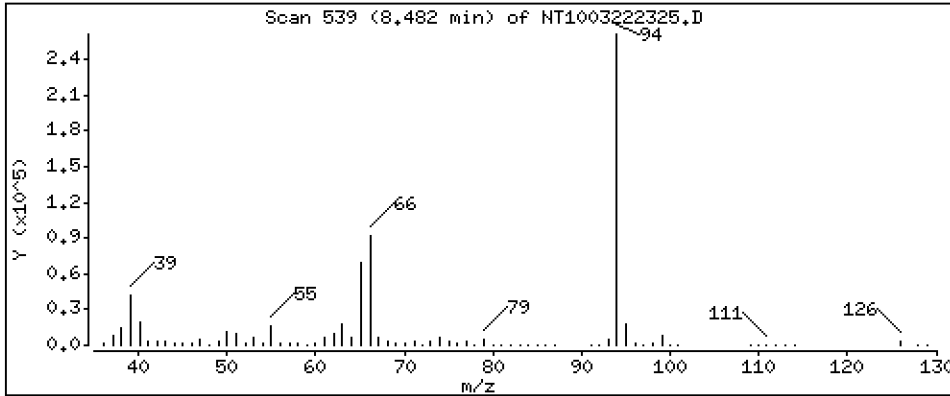
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 6,555 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

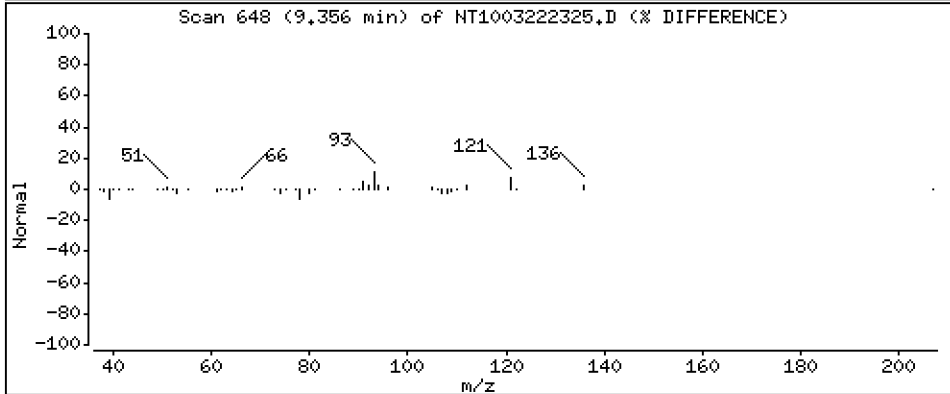
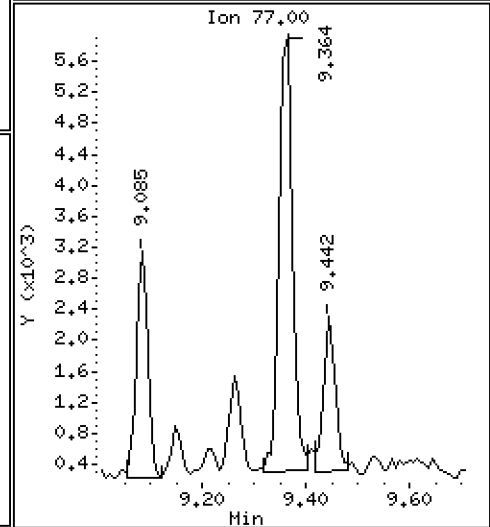
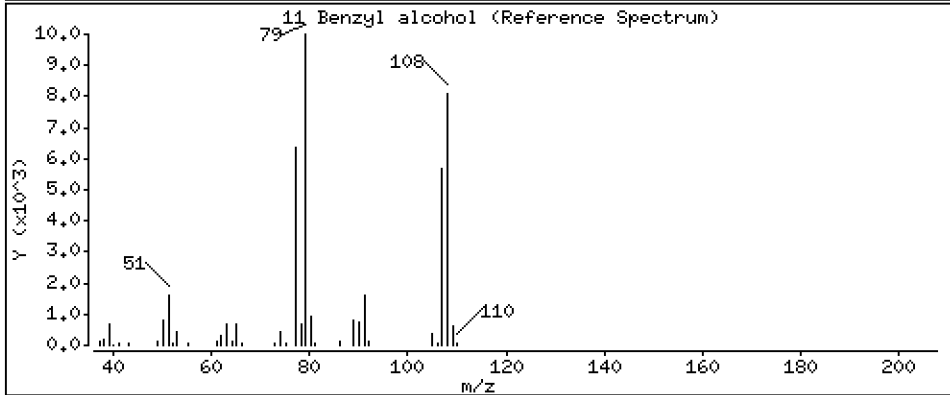
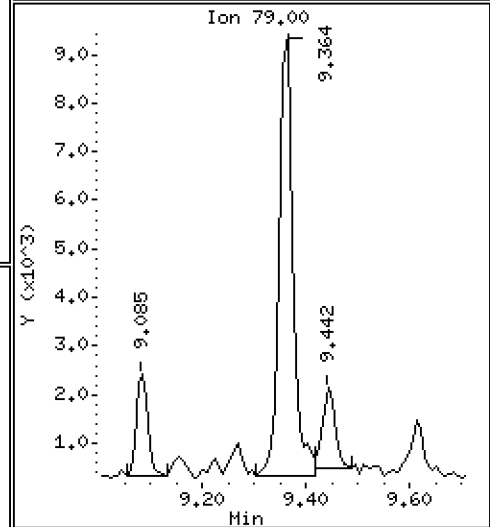
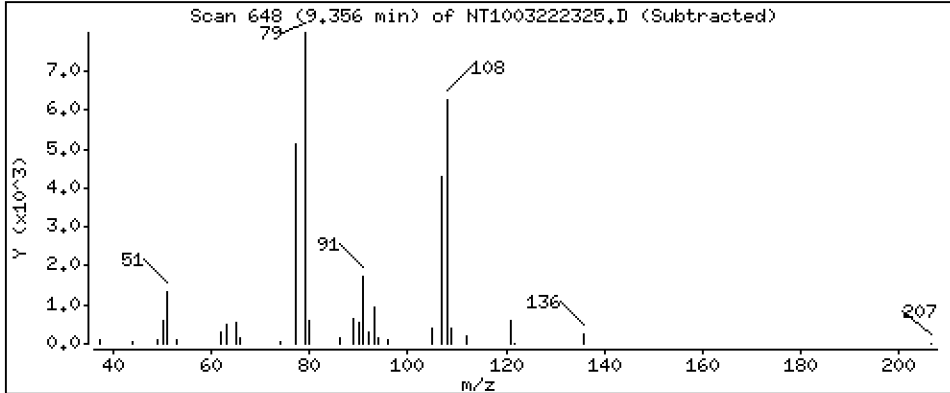
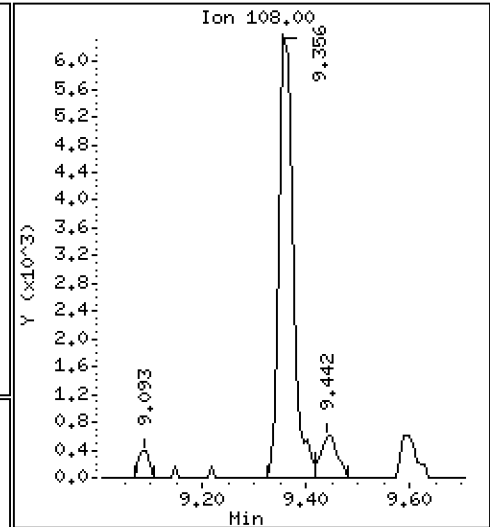
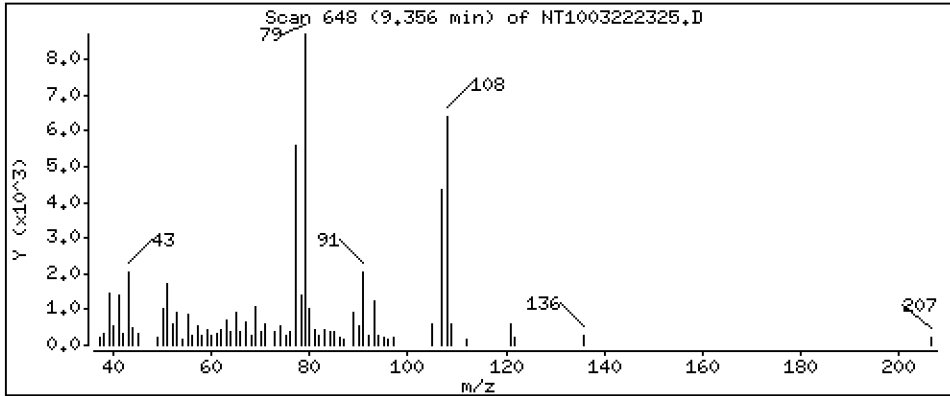
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 0,4032 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

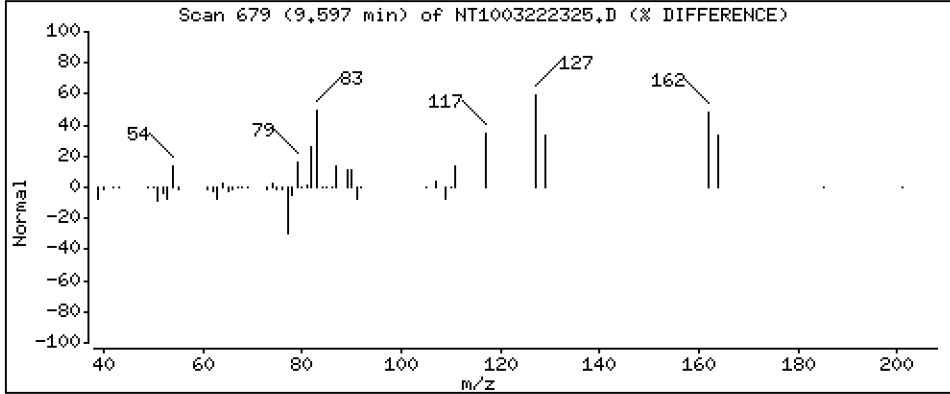
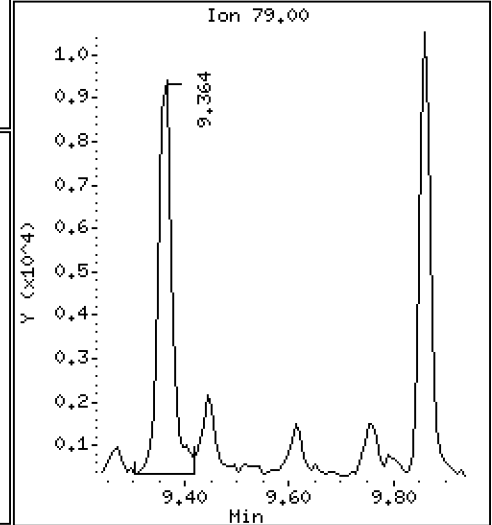
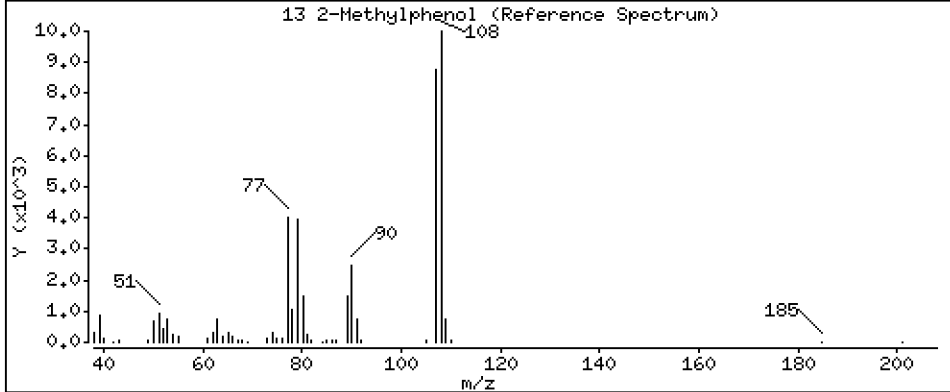
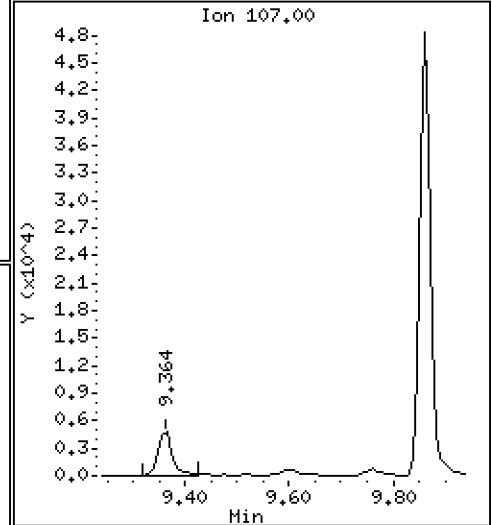
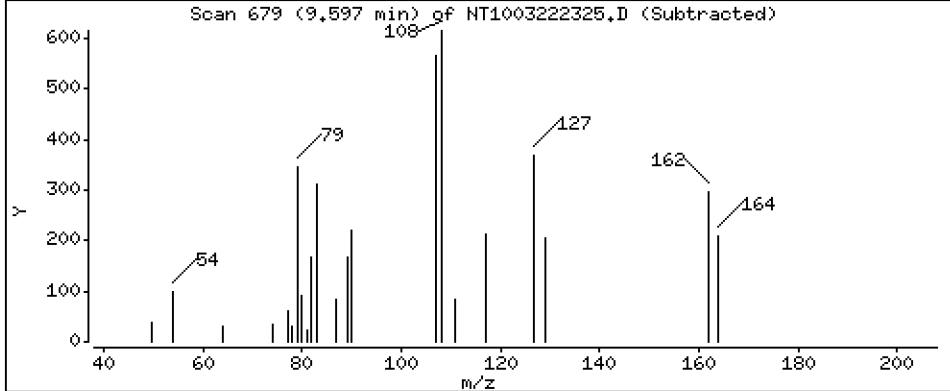
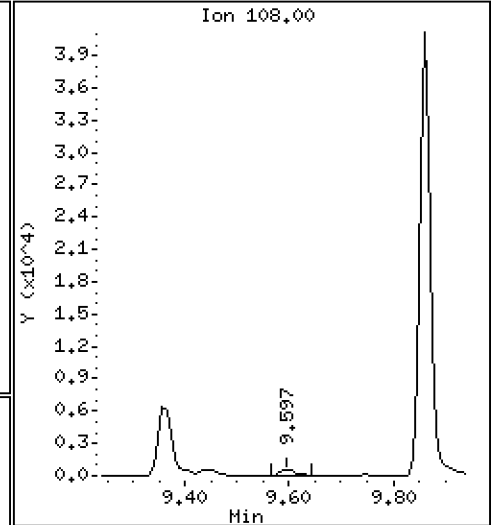
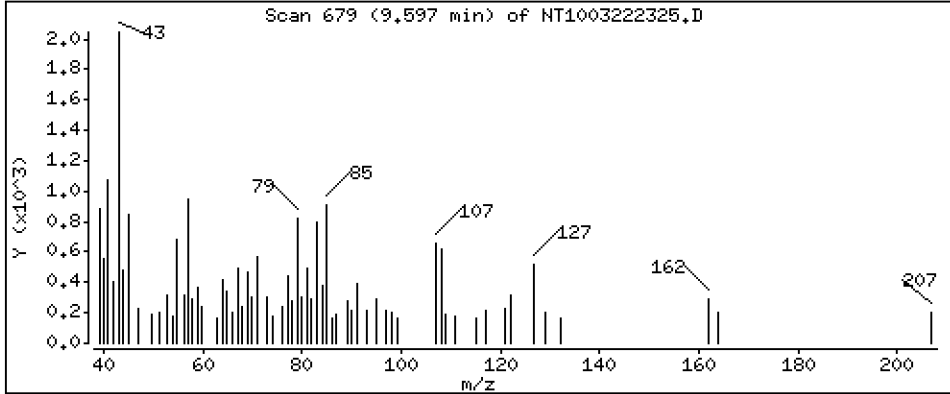
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Concentration: 0.02704 ug/mL

13 2-Methylphenol



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

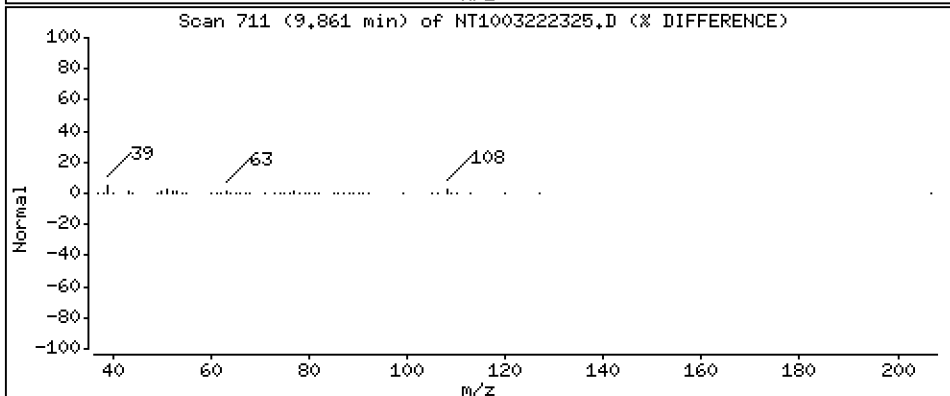
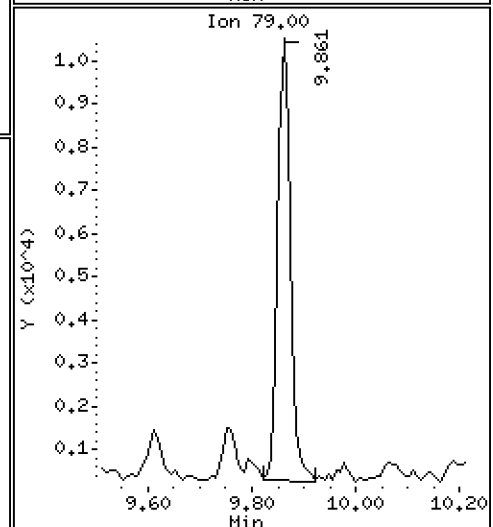
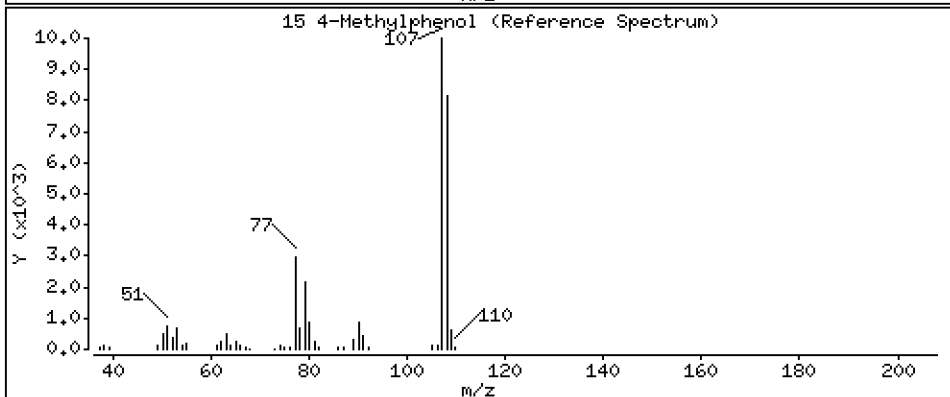
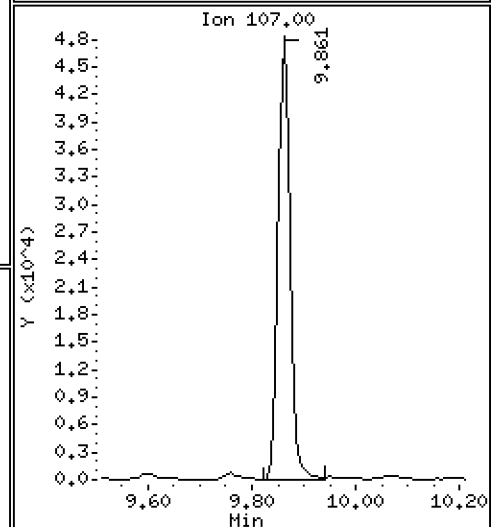
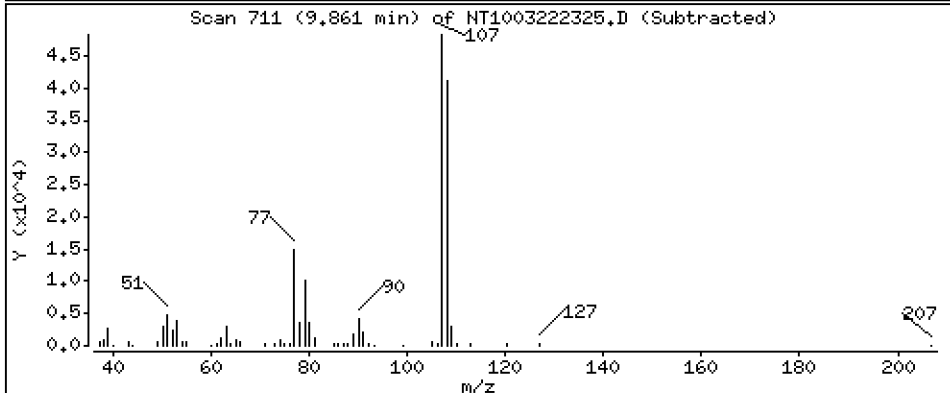
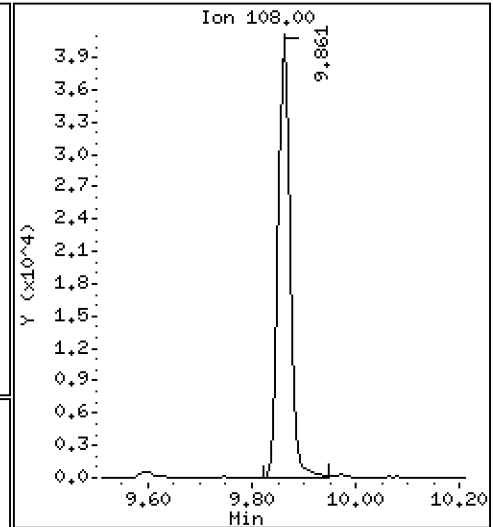
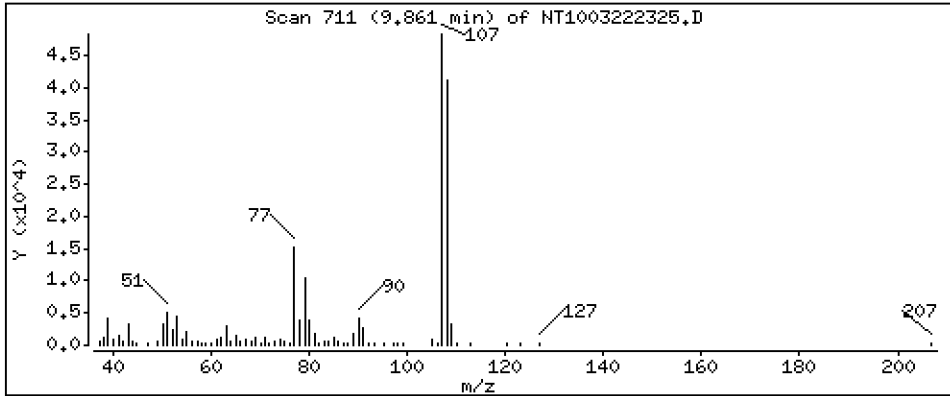
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 1,313 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

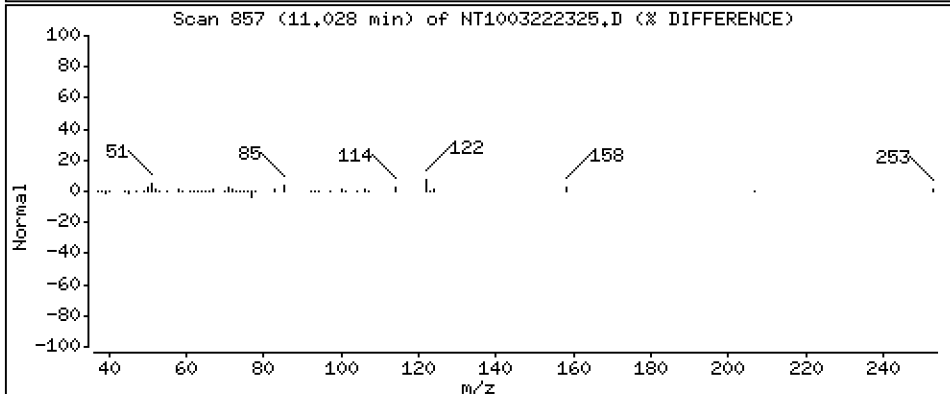
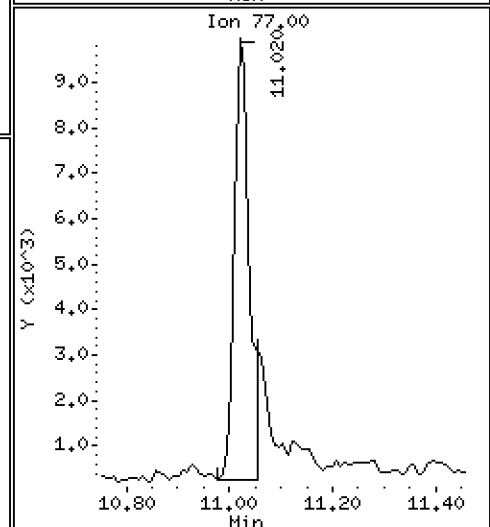
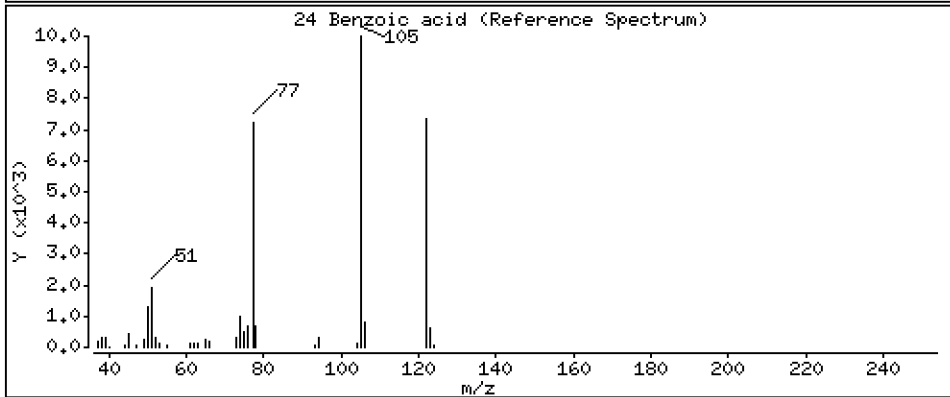
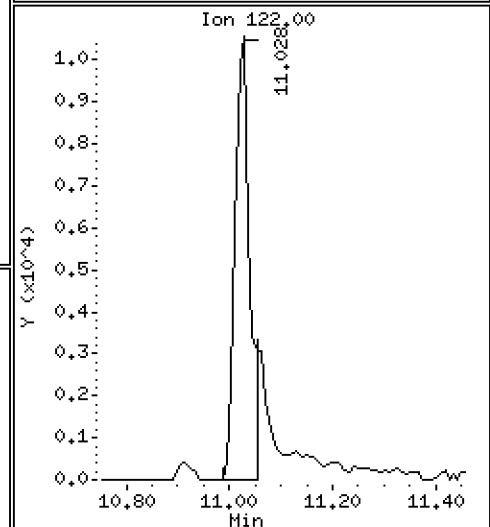
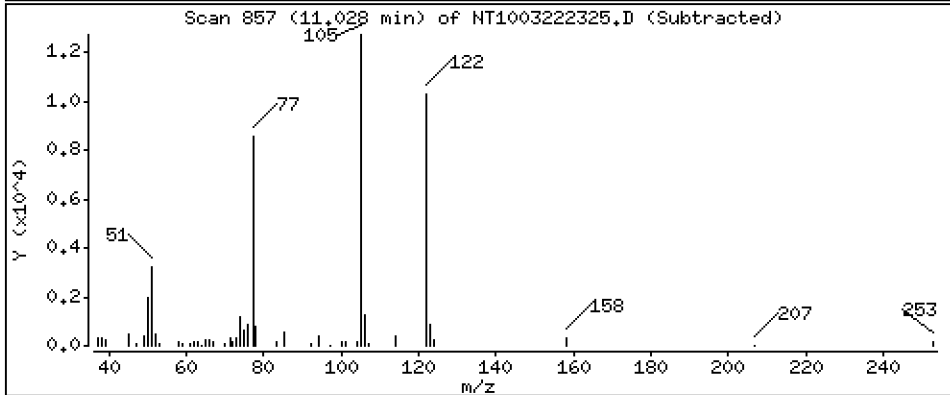
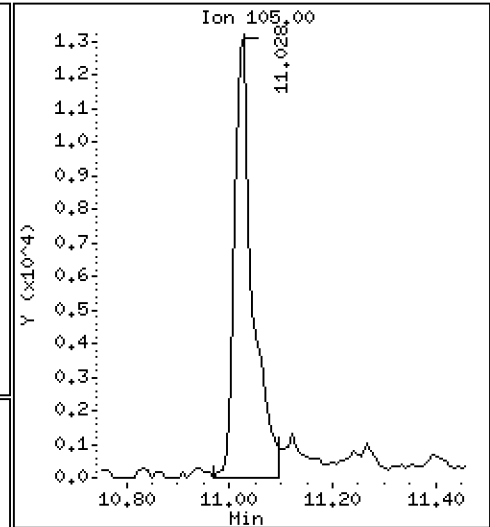
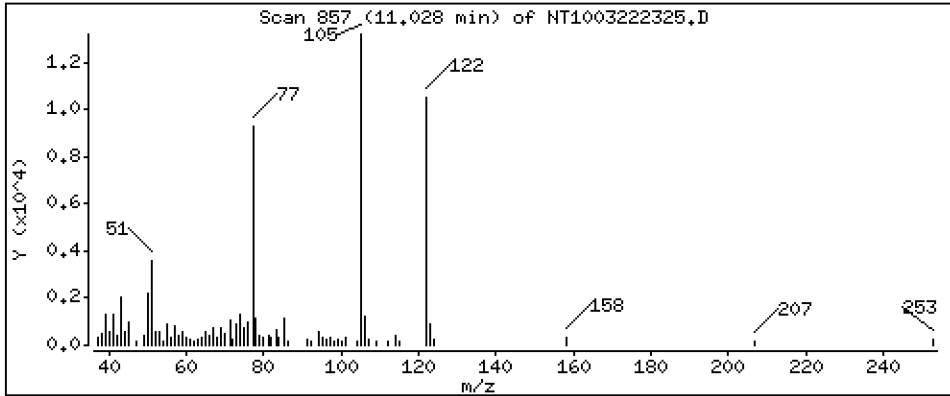
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 1,178 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

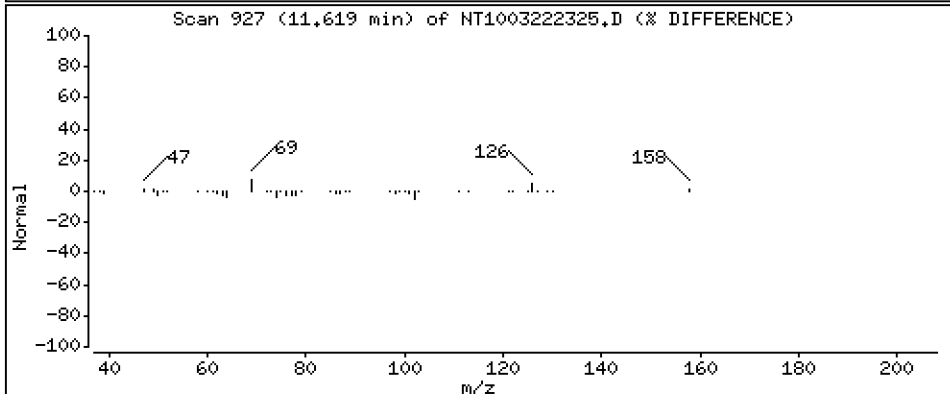
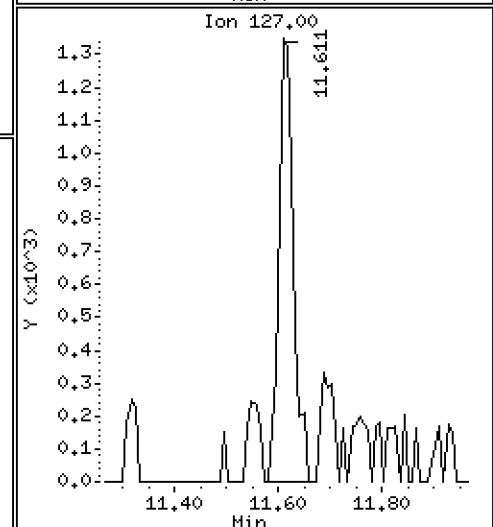
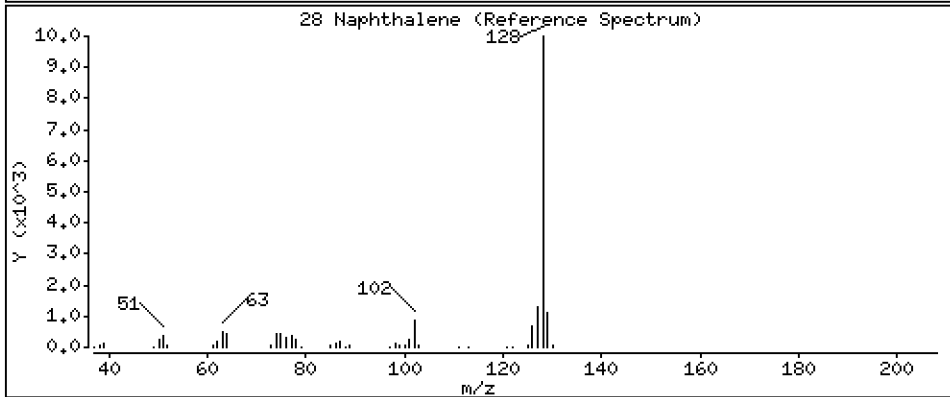
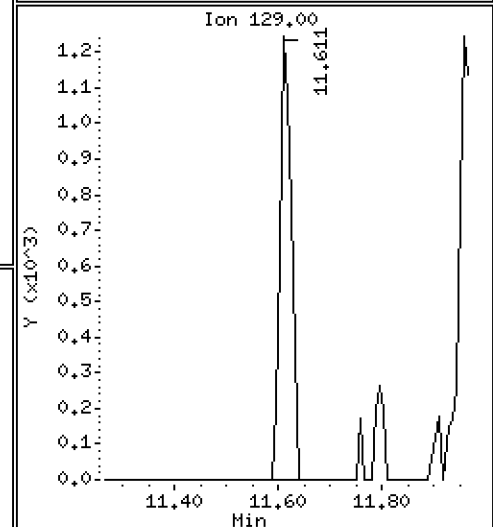
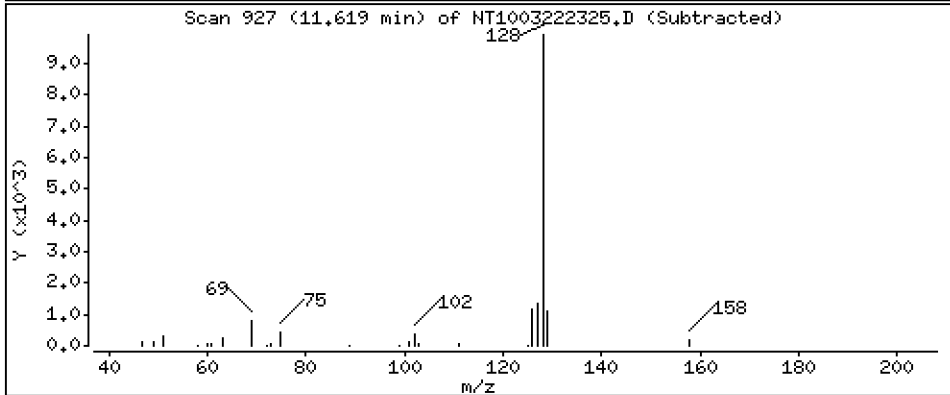
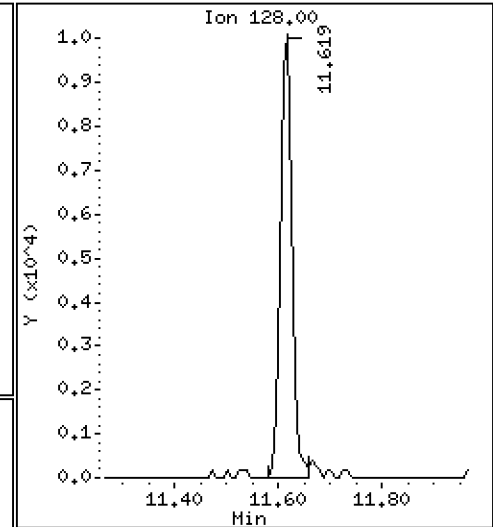
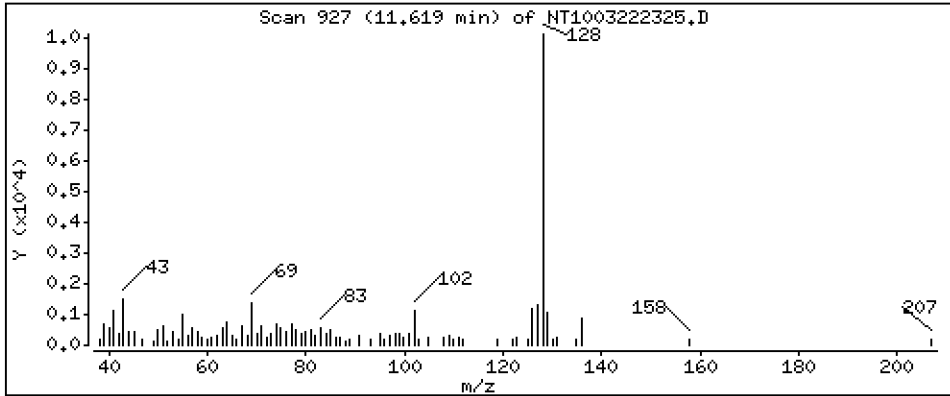
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 0.1134 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

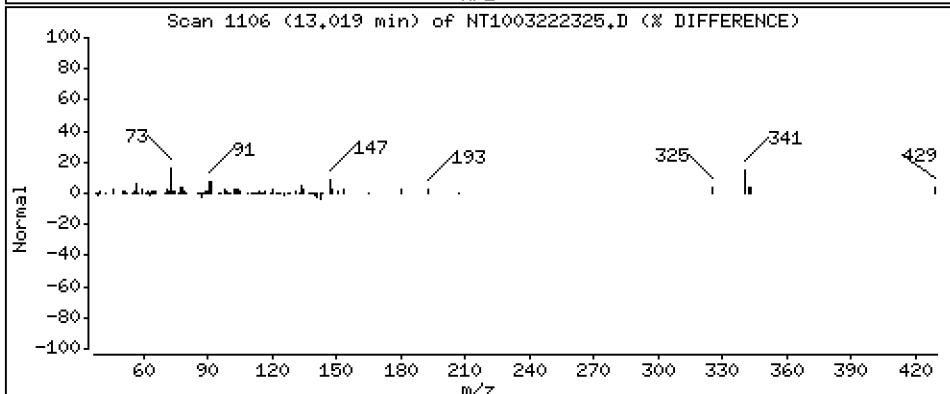
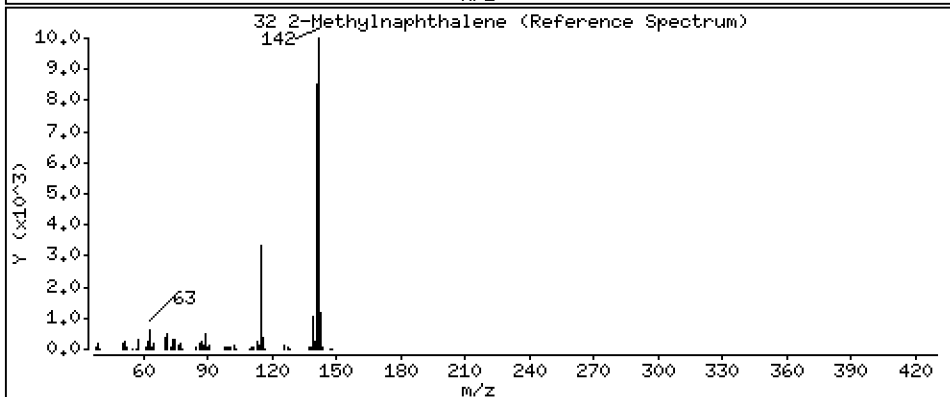
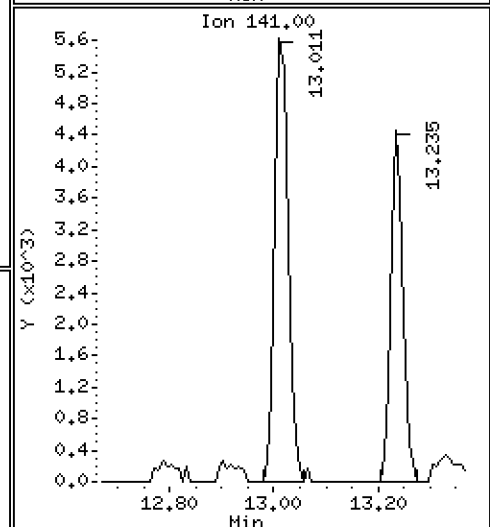
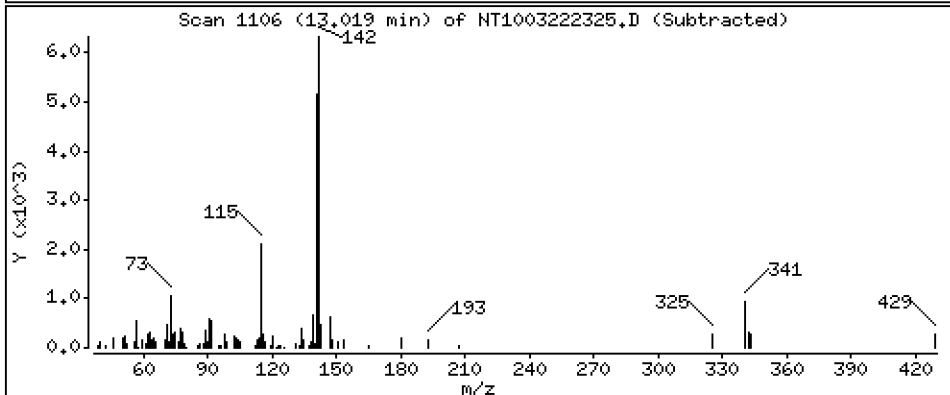
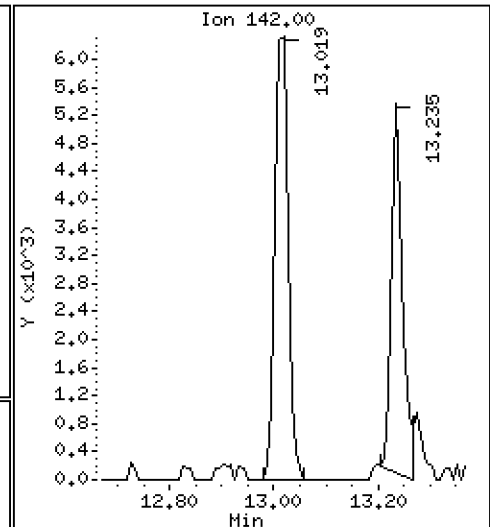
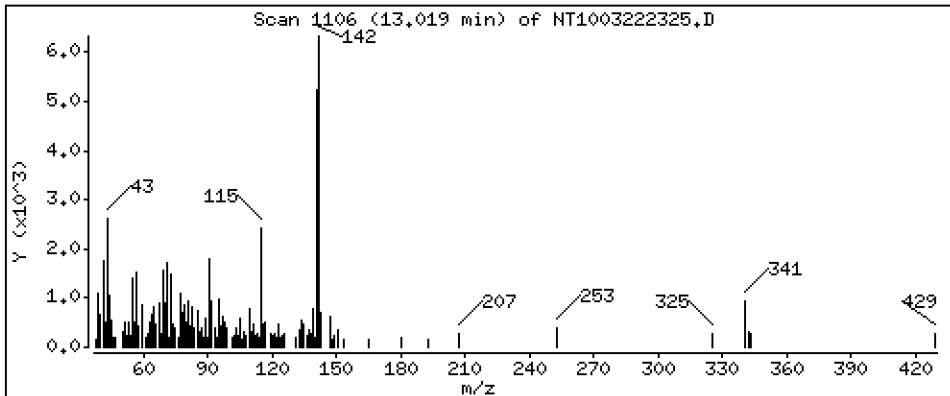
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1017 ug/mL





Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

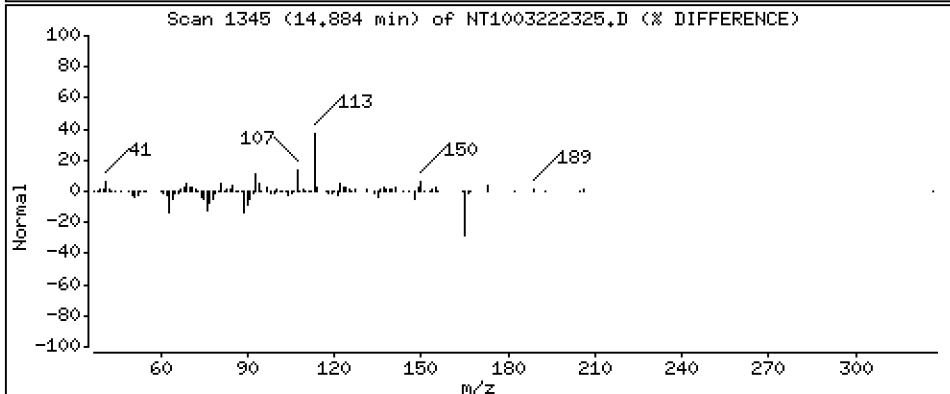
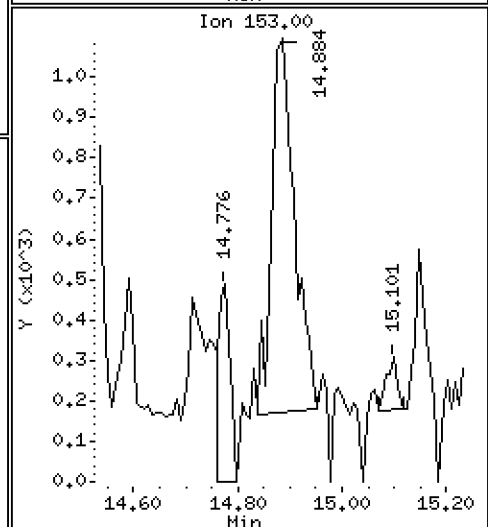
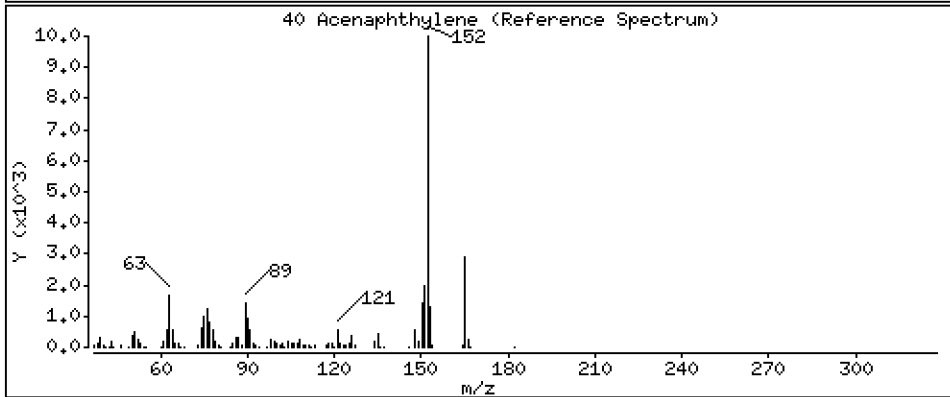
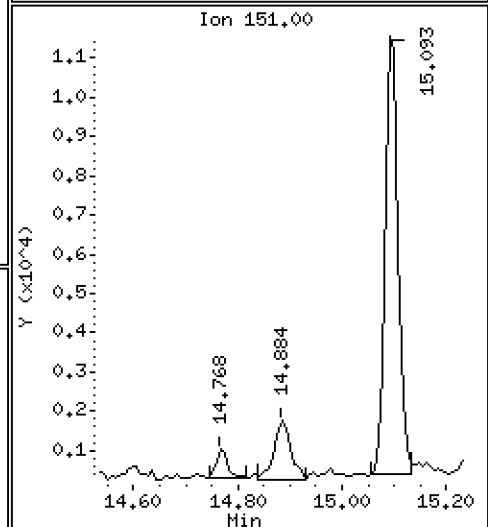
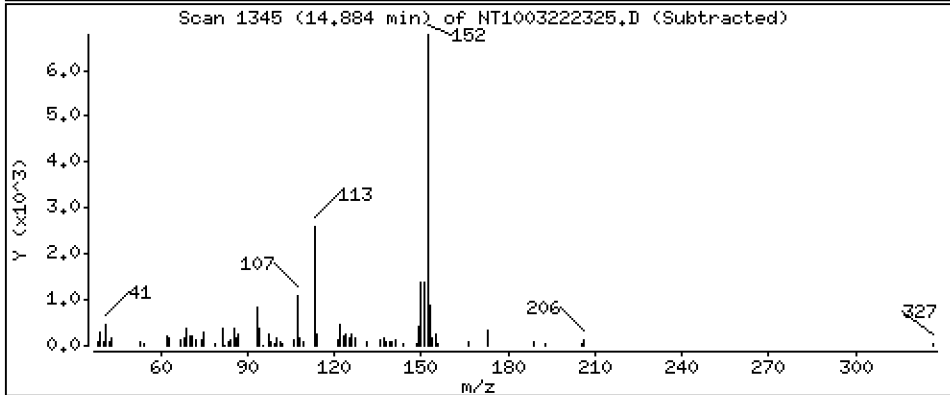
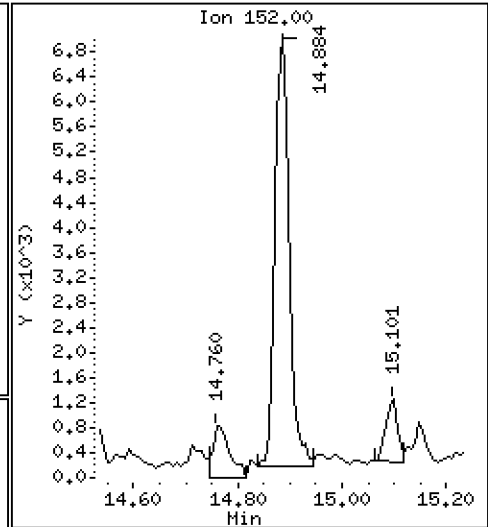
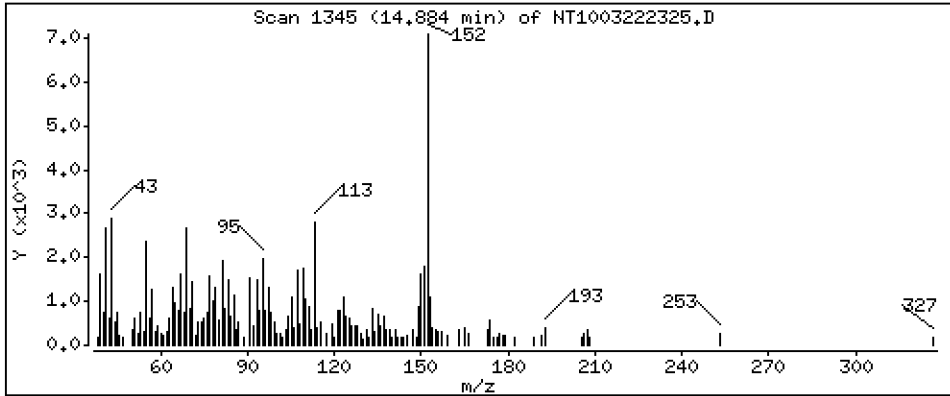
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 0.08202 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

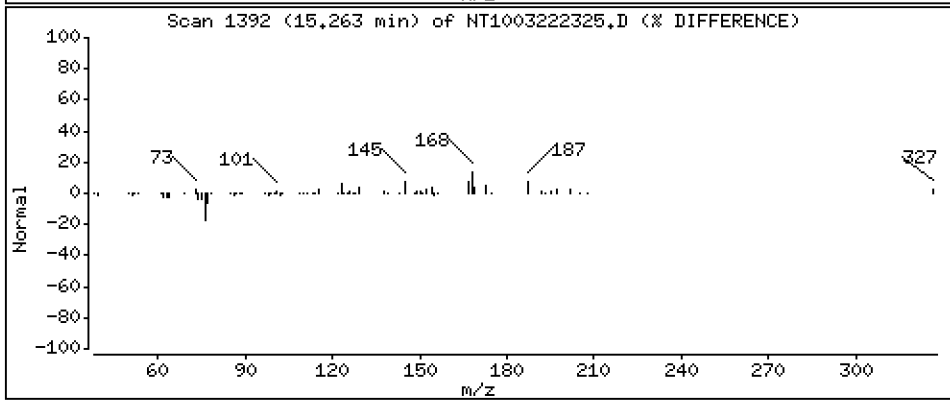
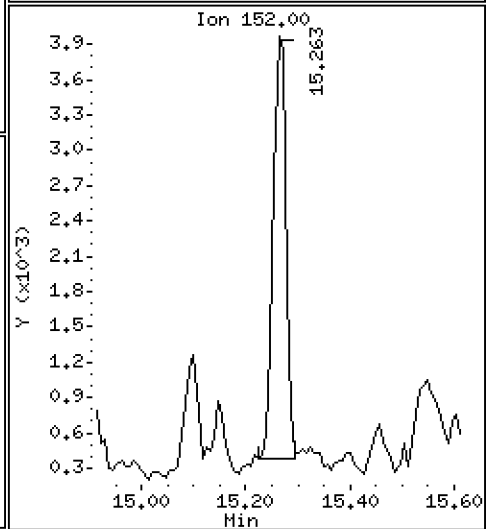
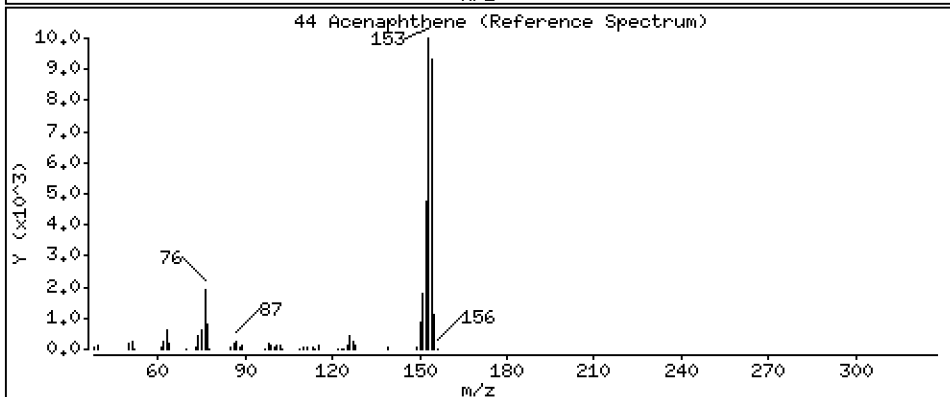
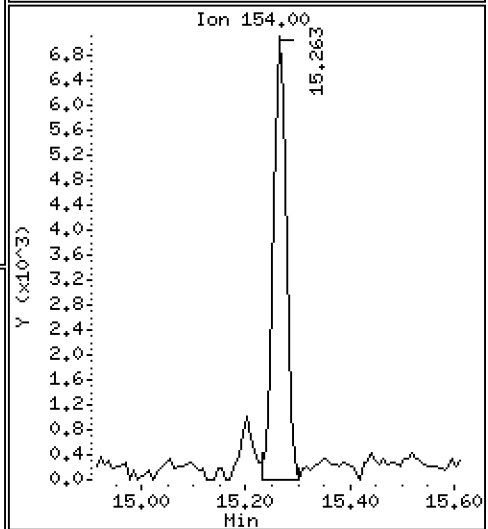
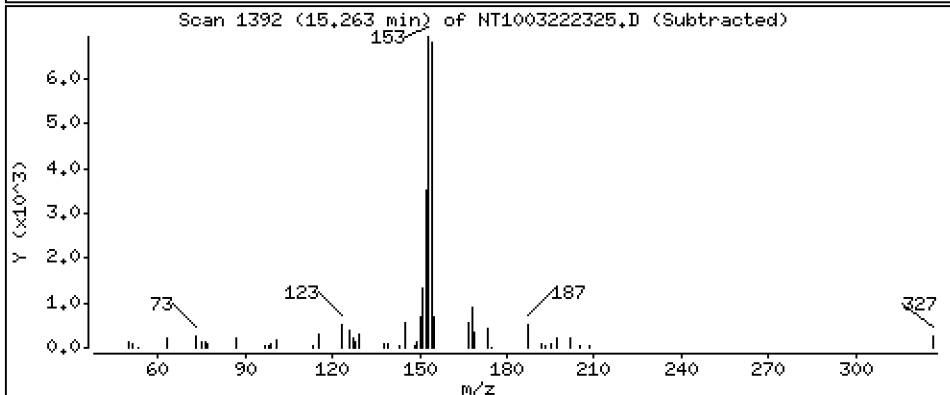
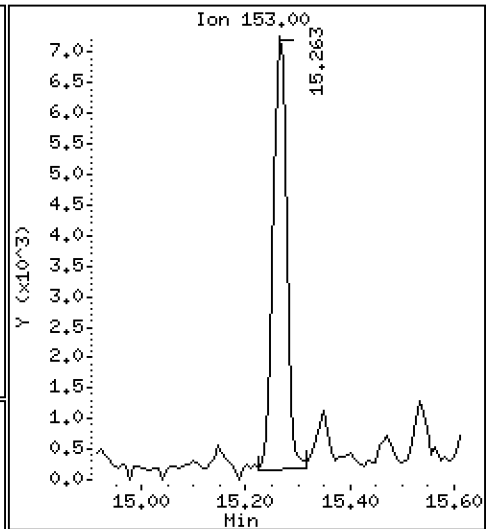
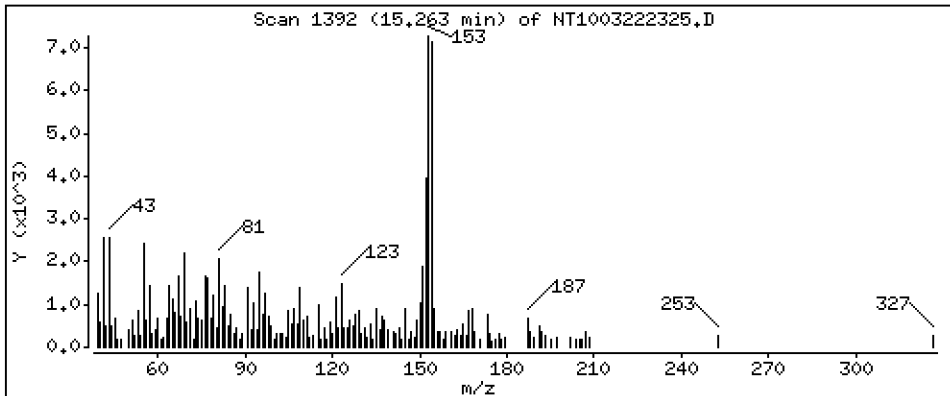
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,1309 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

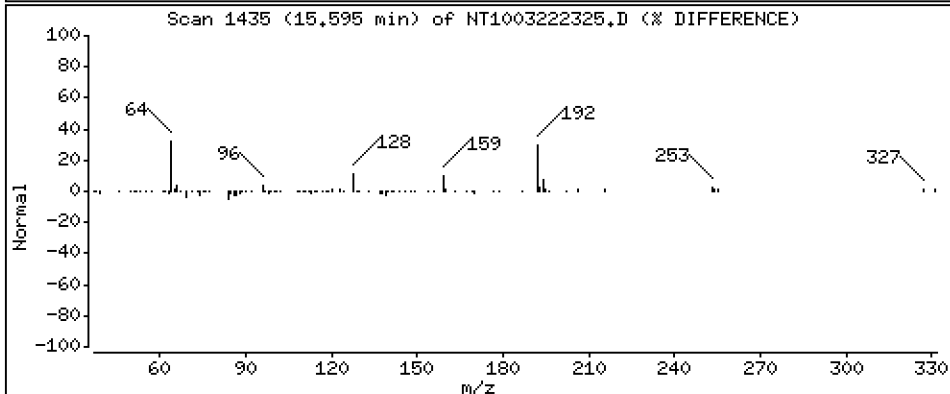
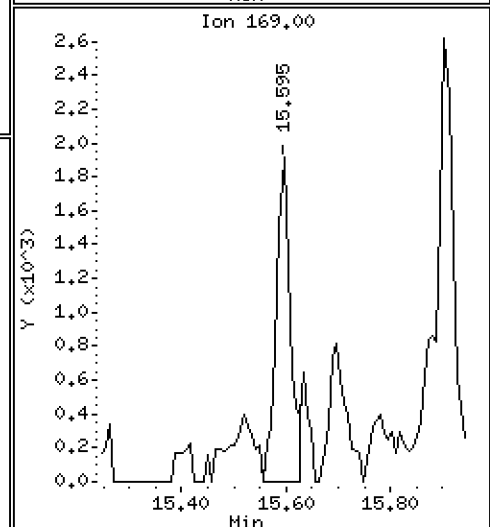
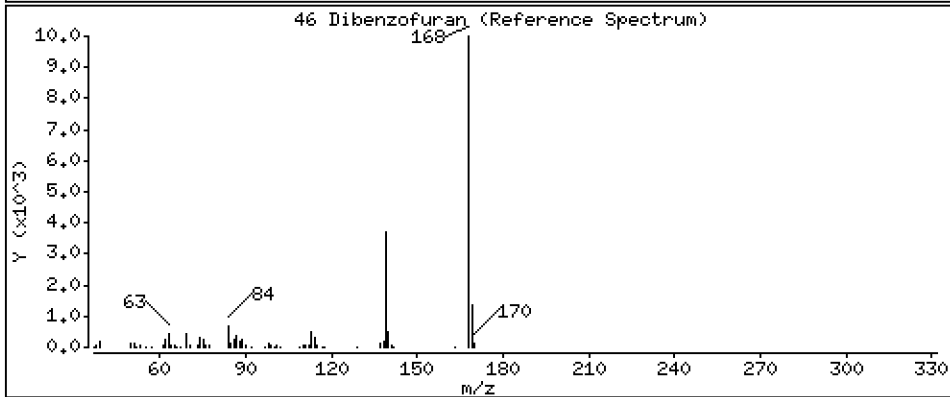
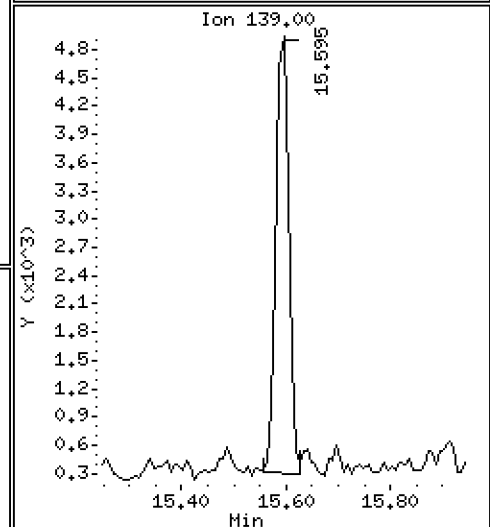
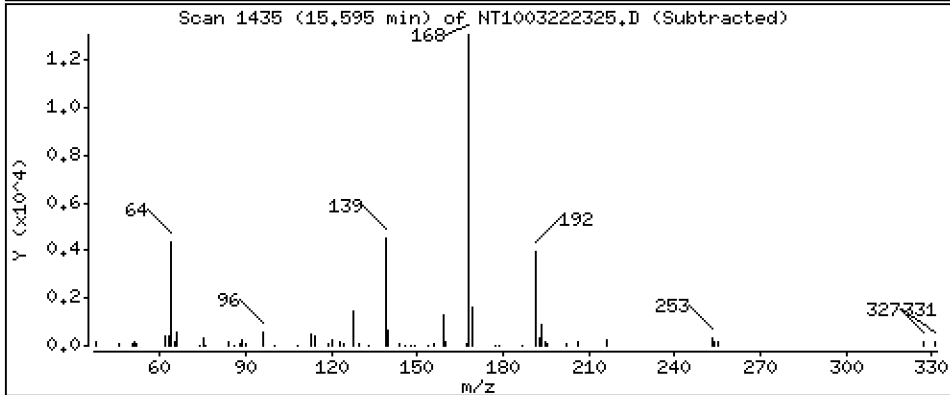
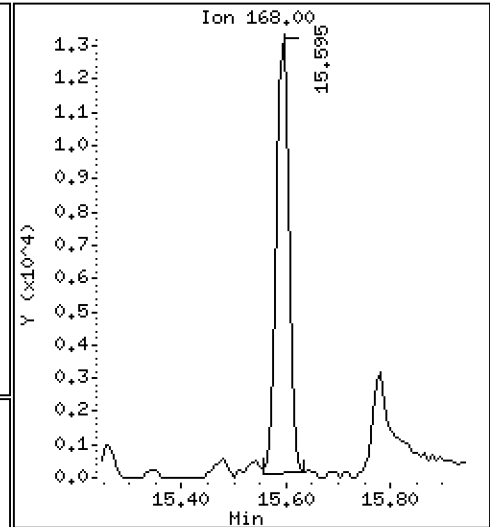
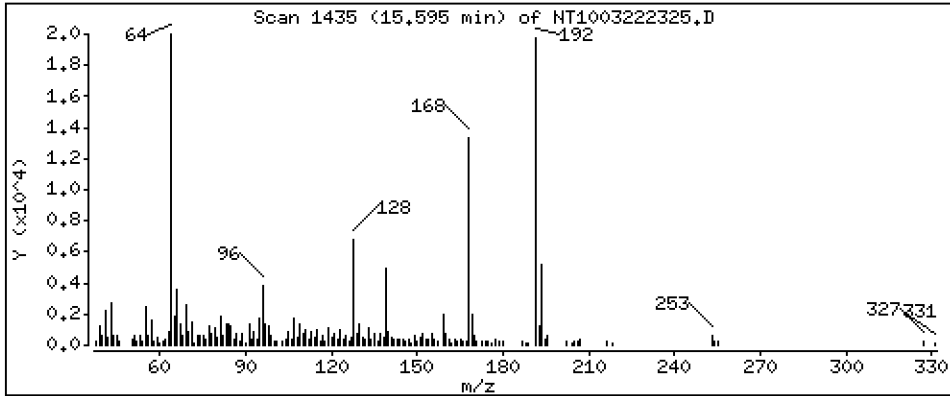
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,1499 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

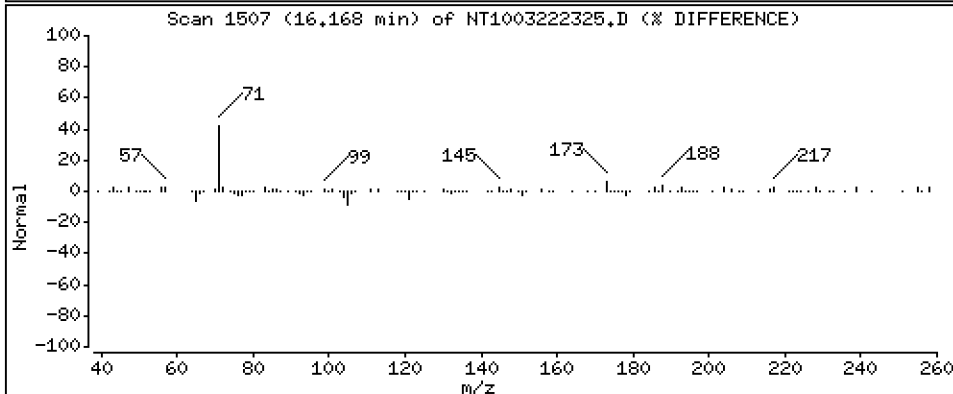
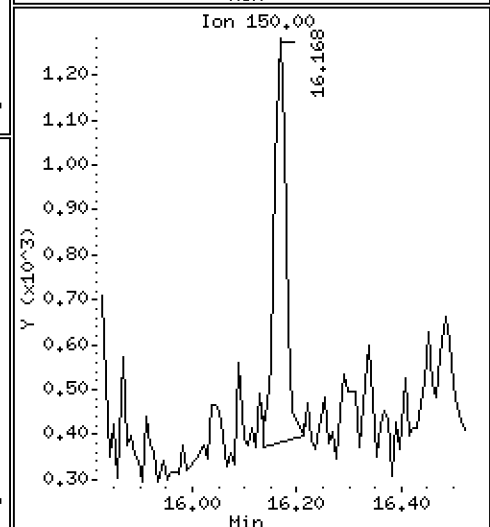
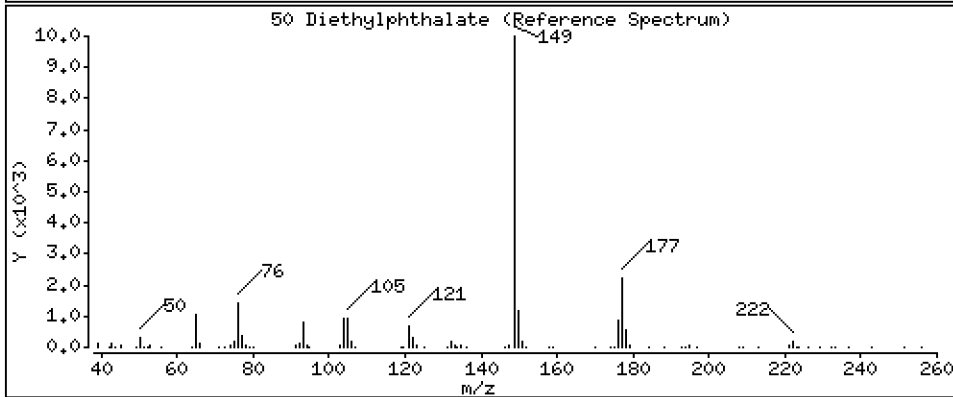
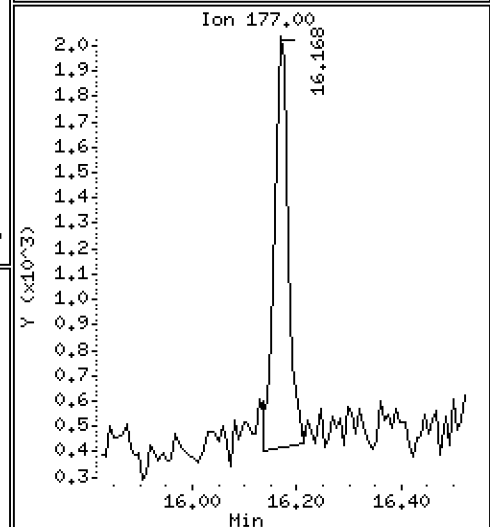
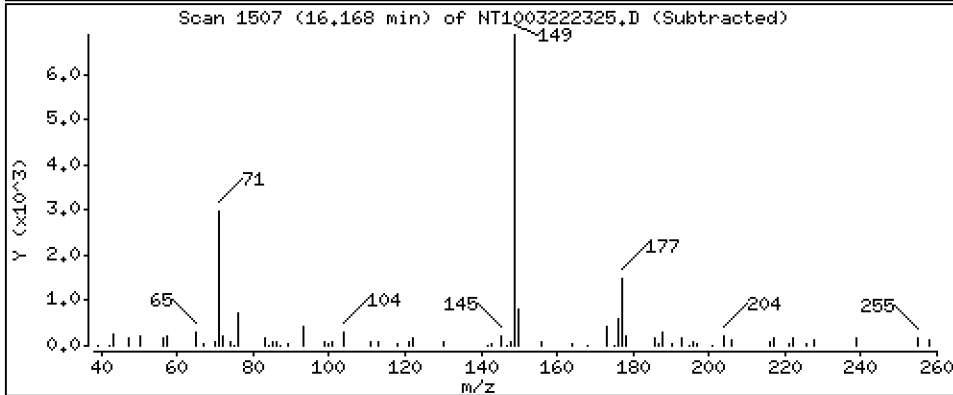
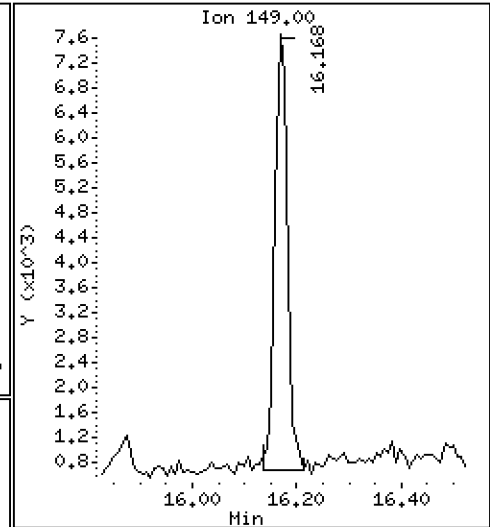
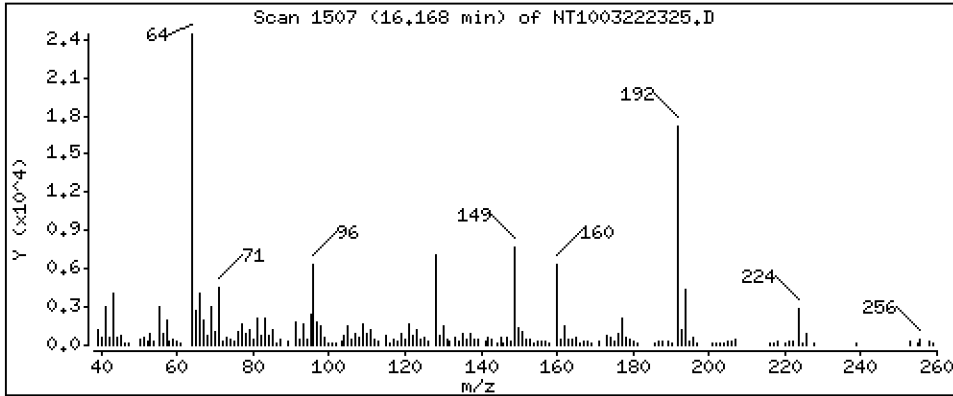
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,1393 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

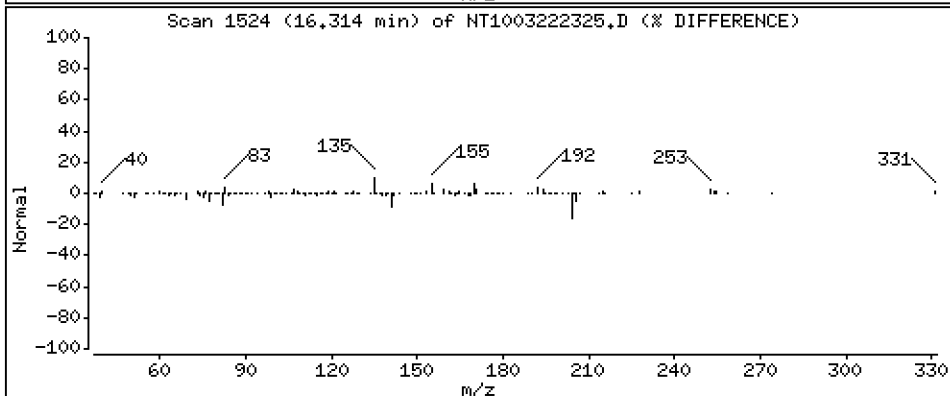
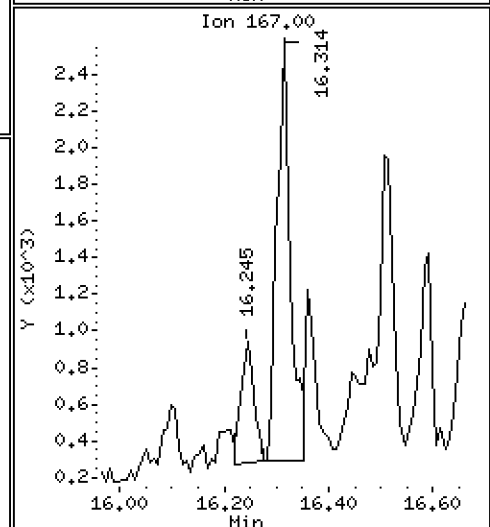
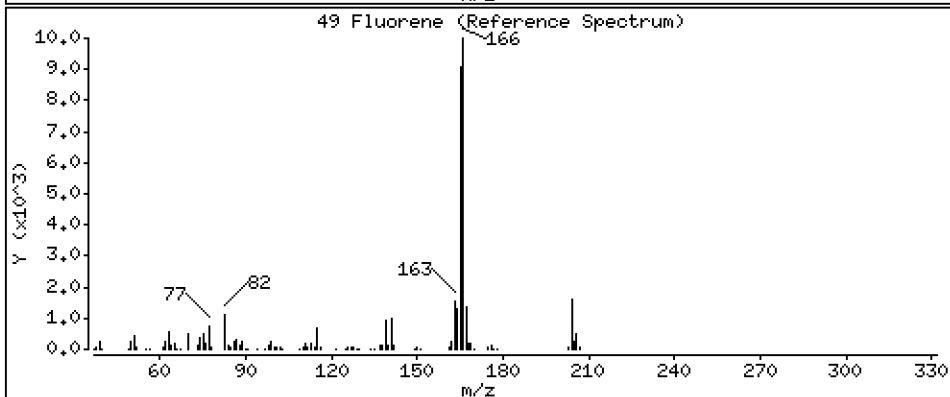
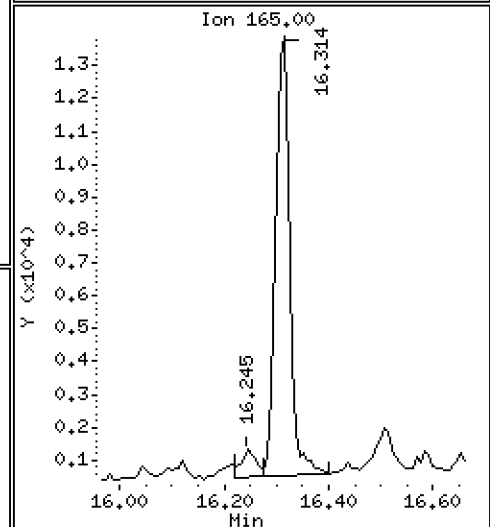
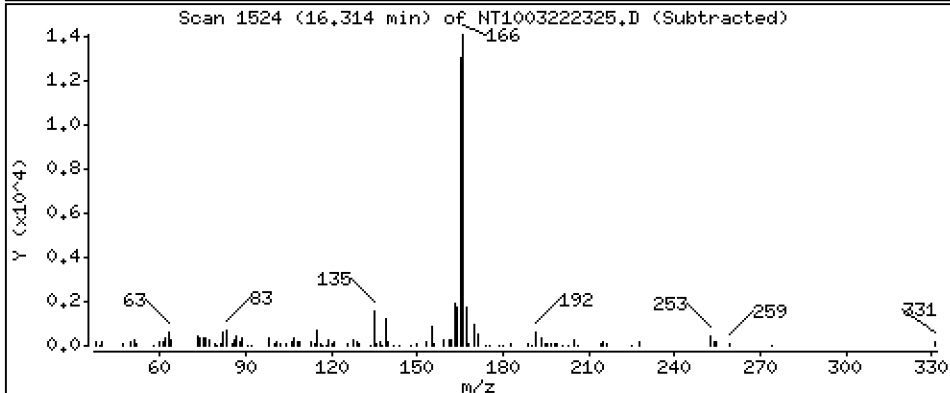
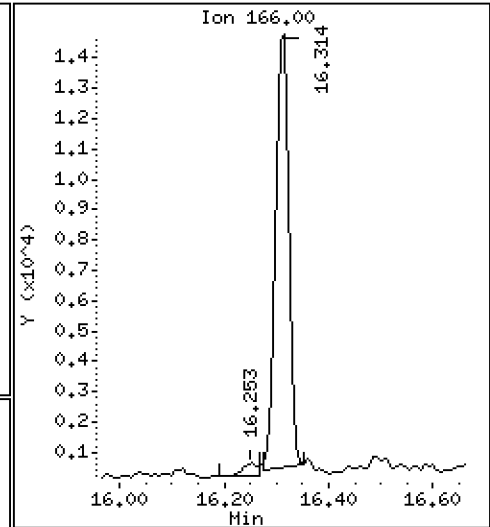
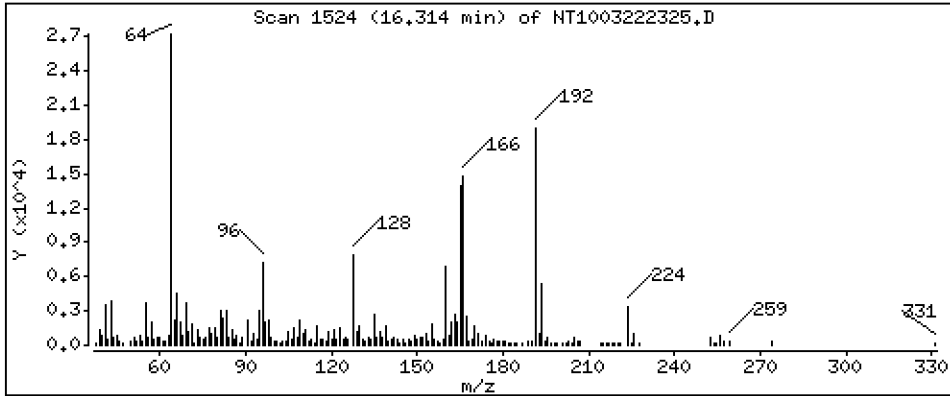
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 0.2221 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

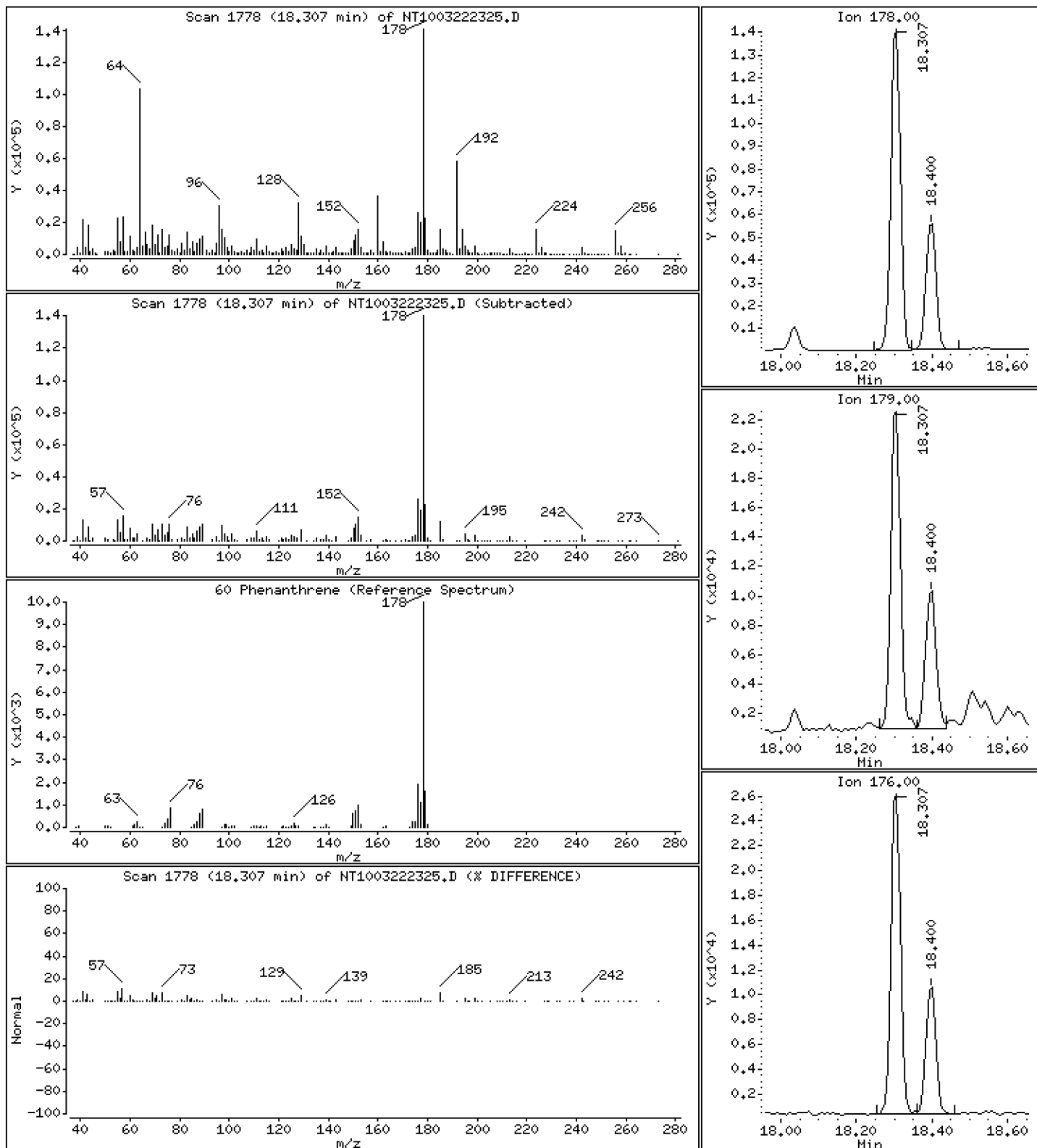
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 1,479 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

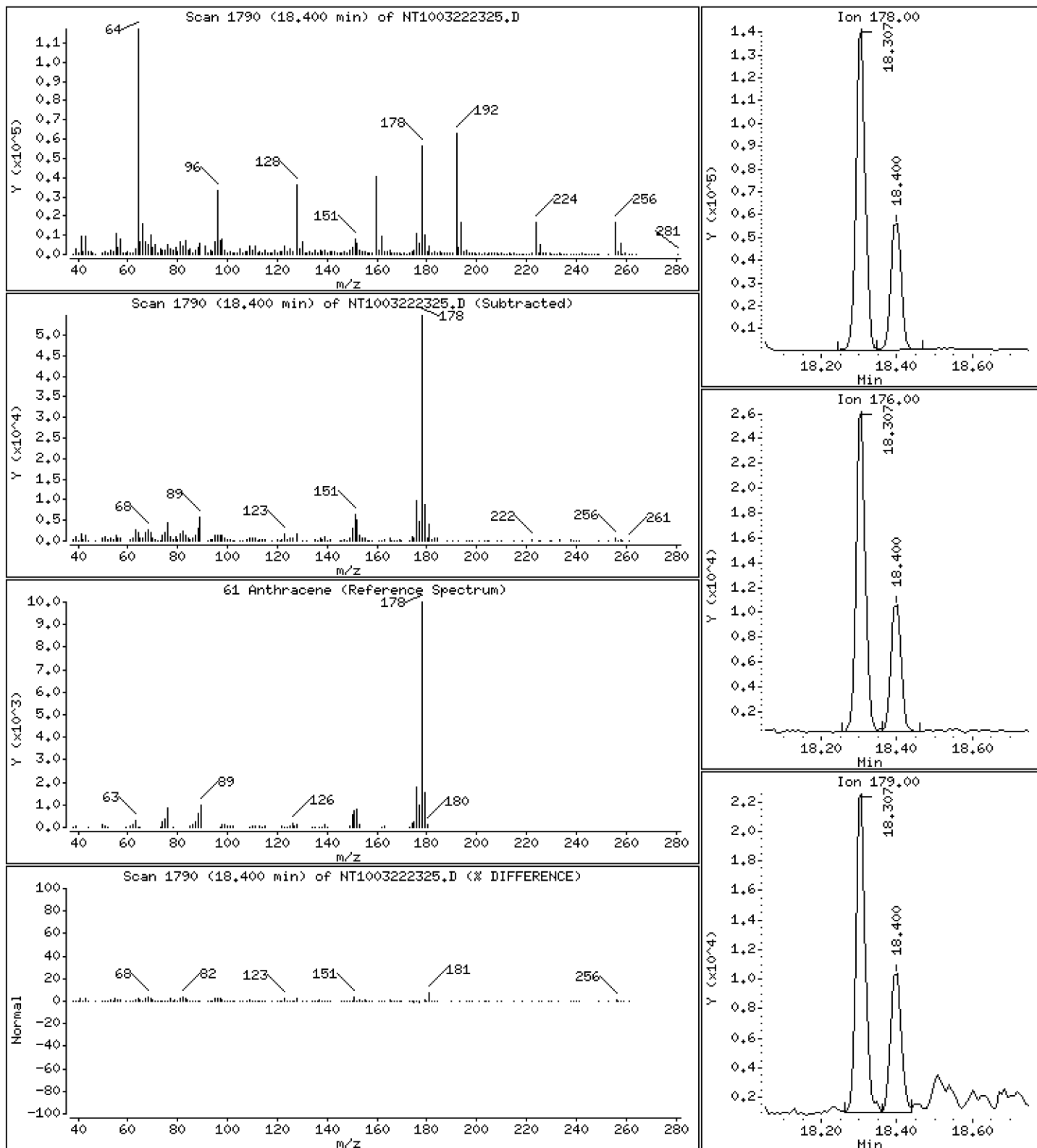
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,6592 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

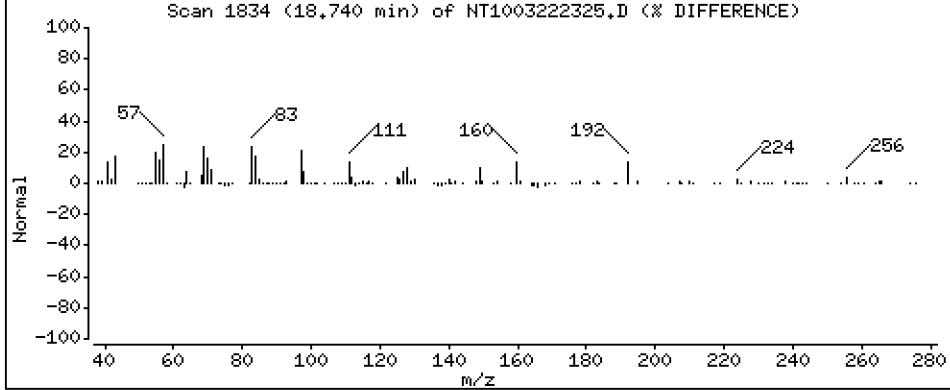
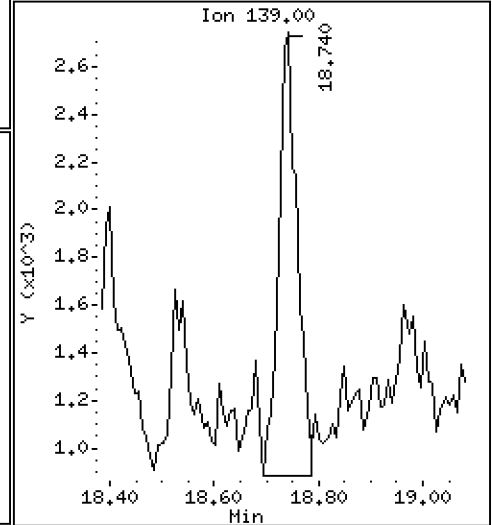
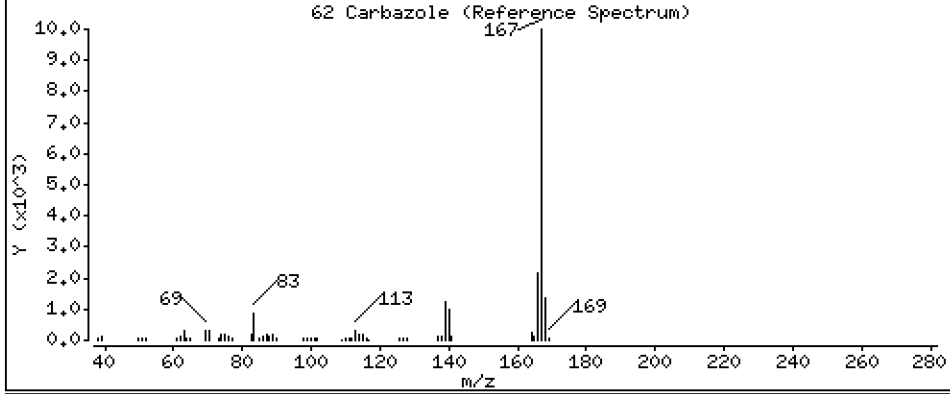
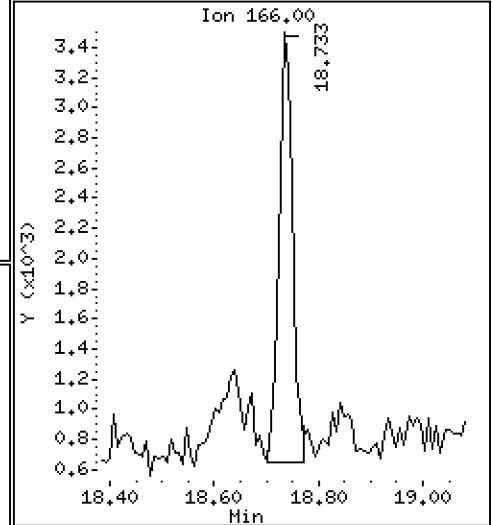
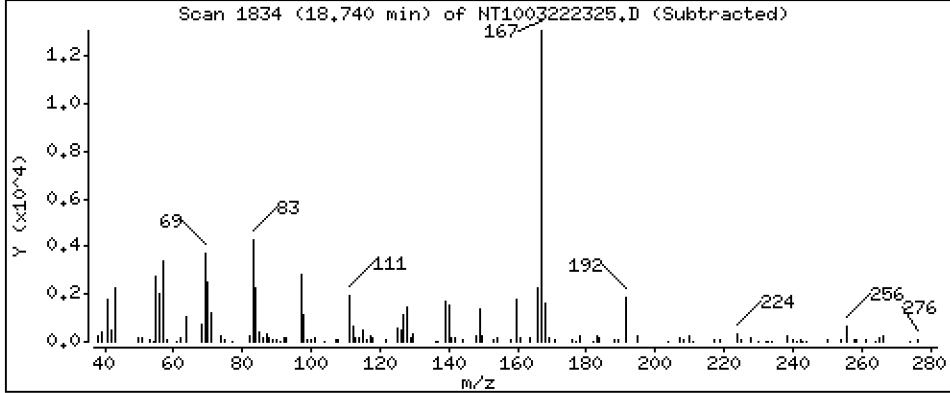
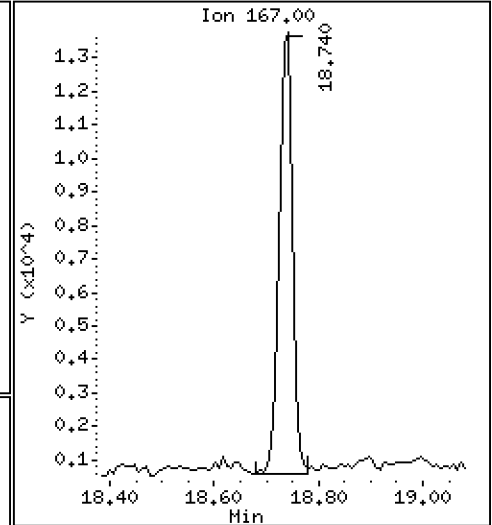
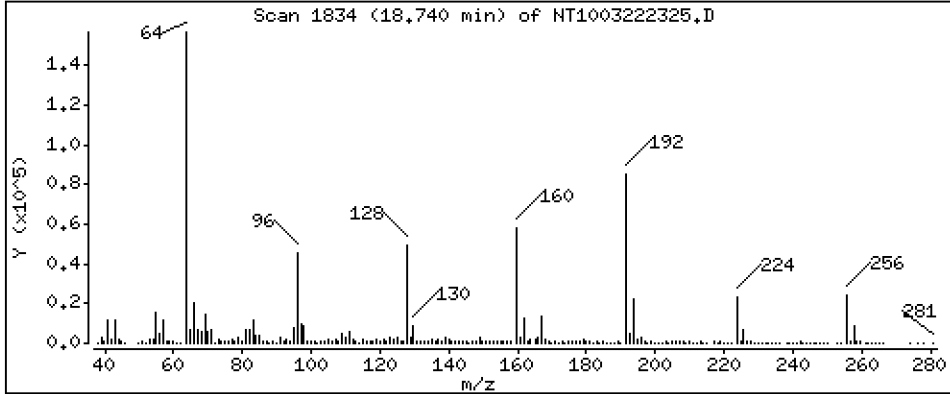
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1660 ug/mL





Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

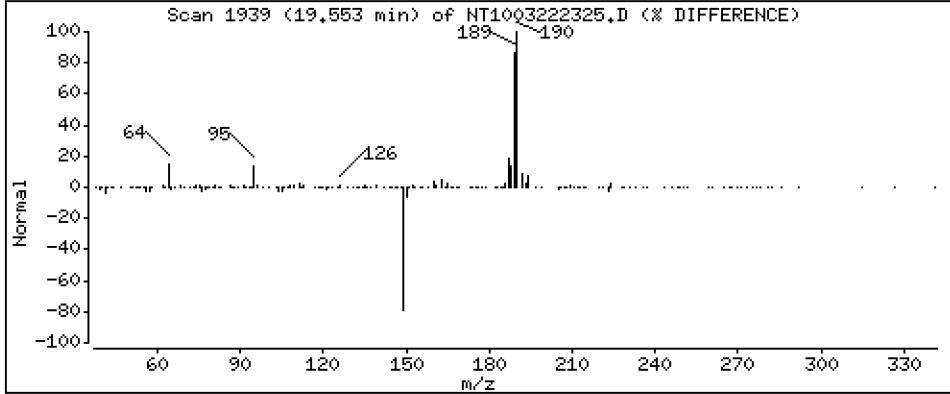
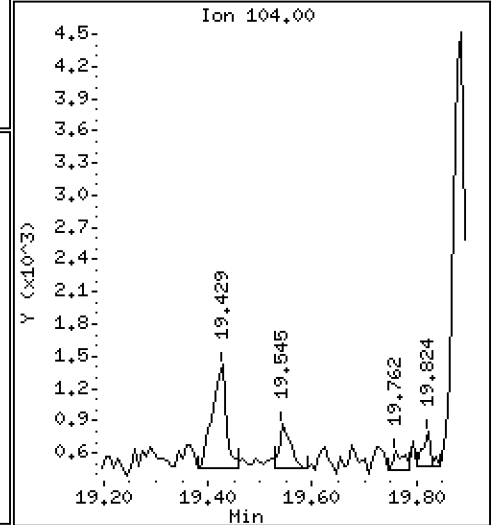
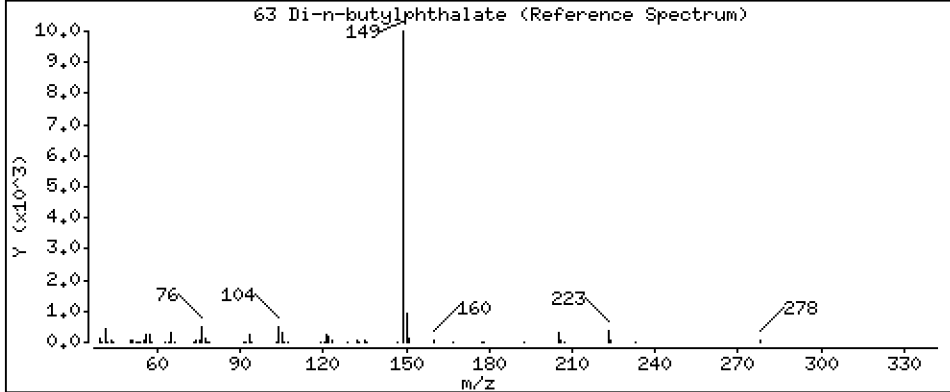
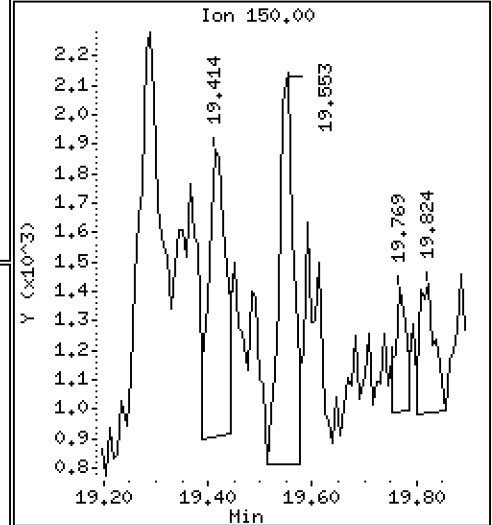
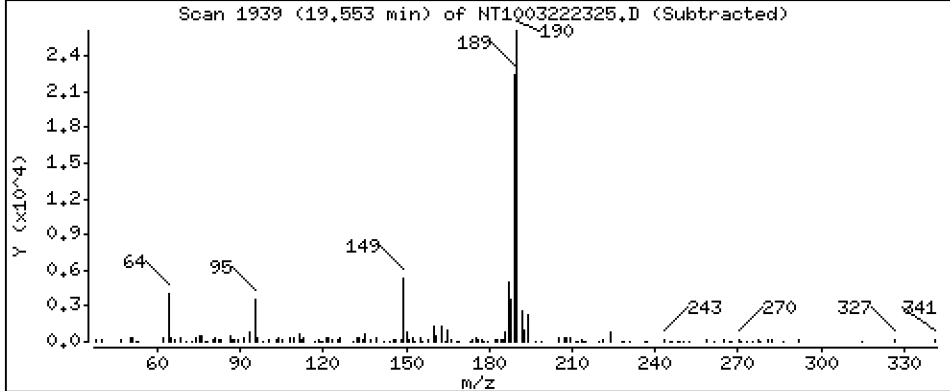
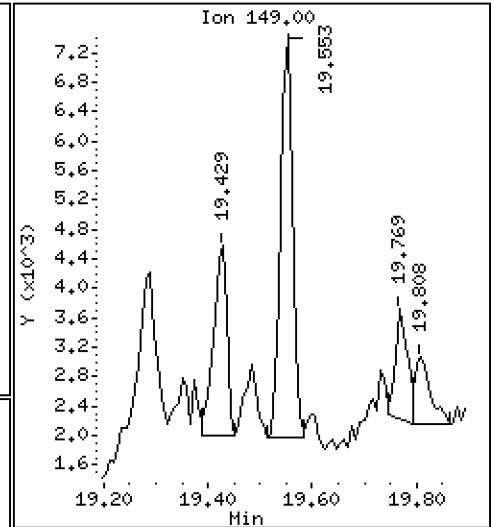
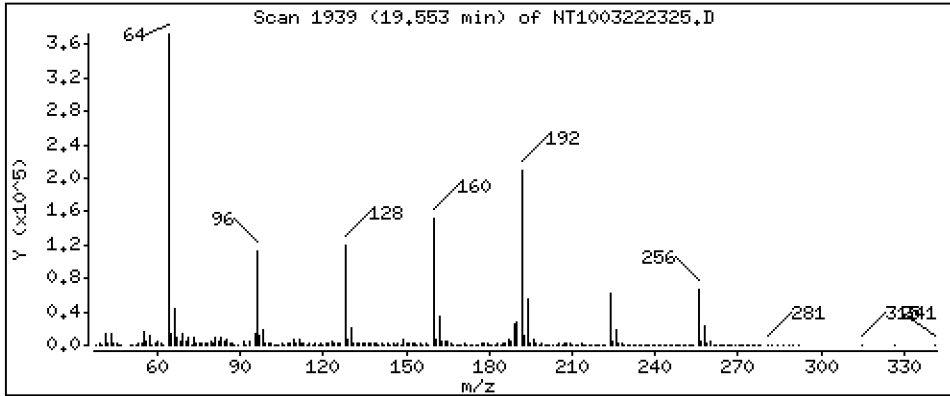
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 0.04487 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

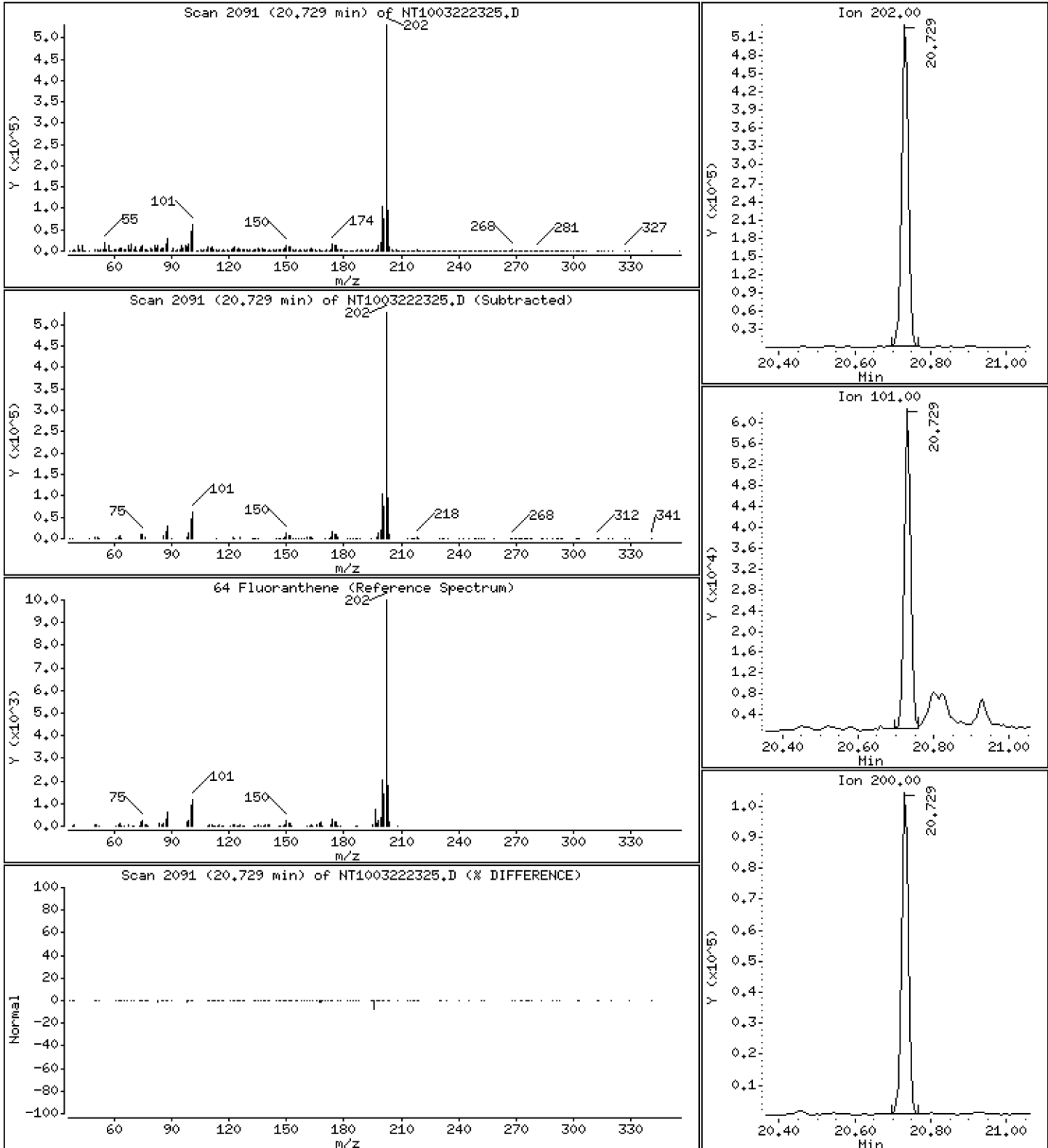
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 3,103 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

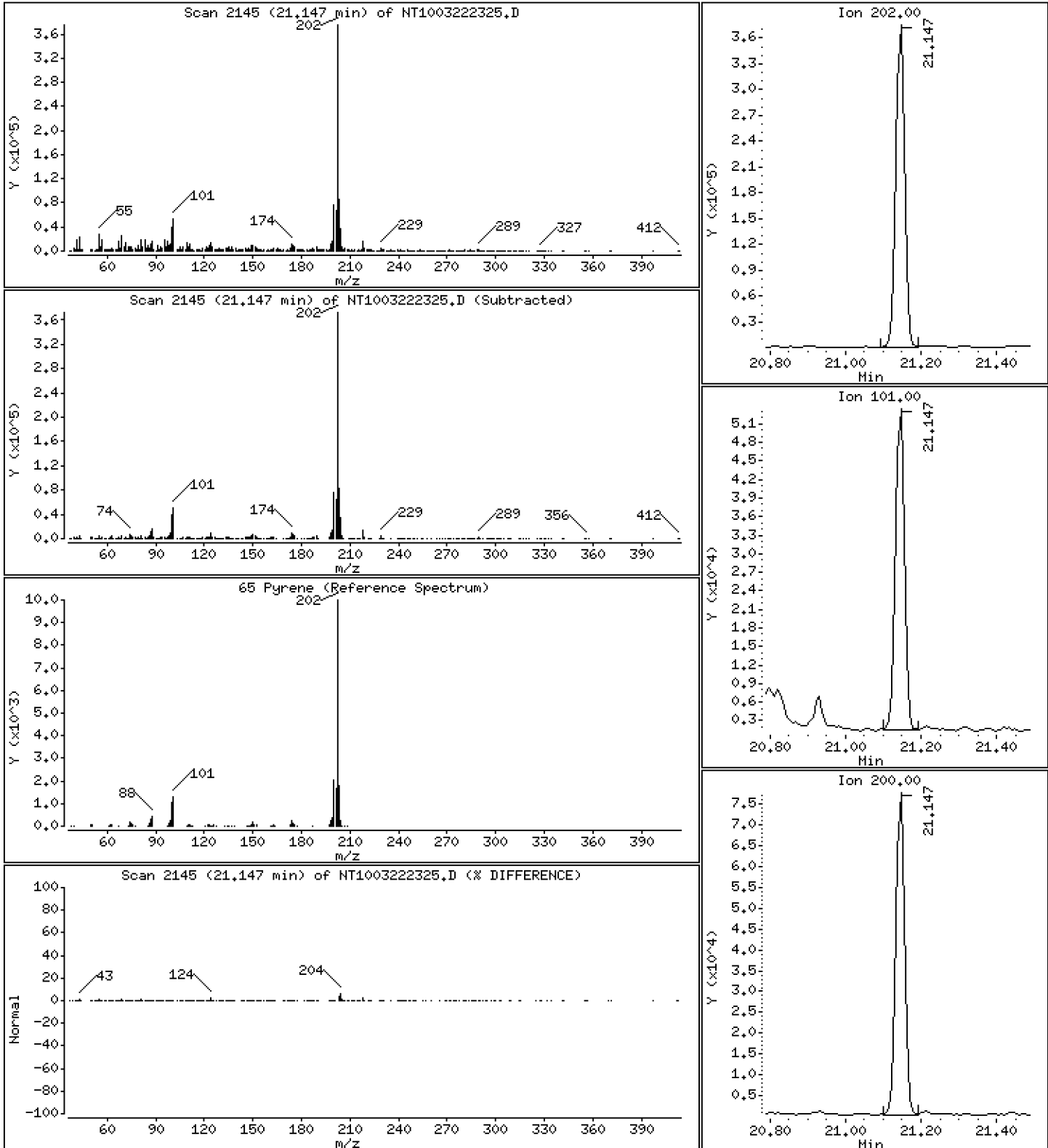
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 2,519 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

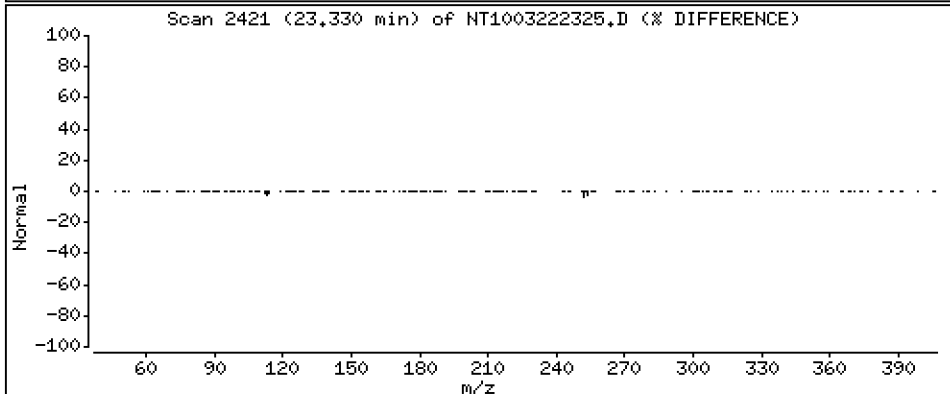
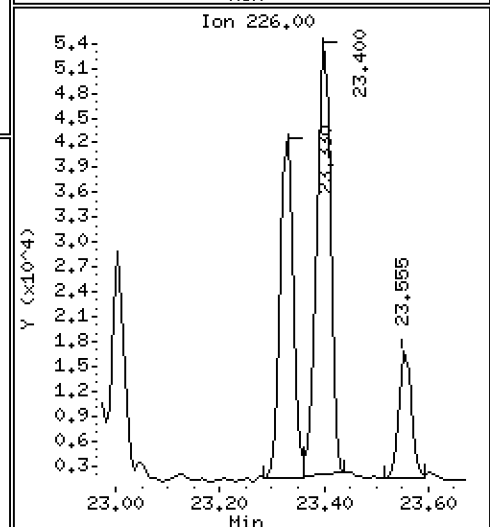
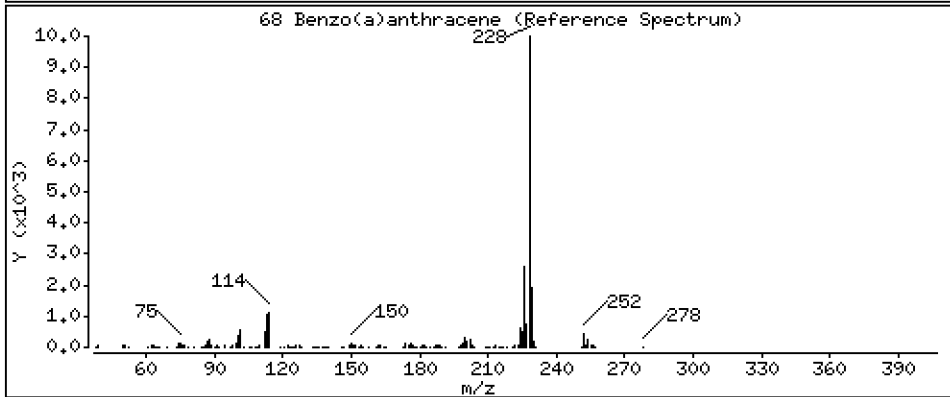
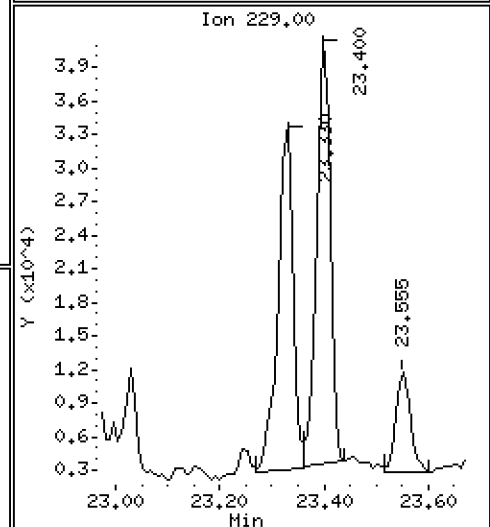
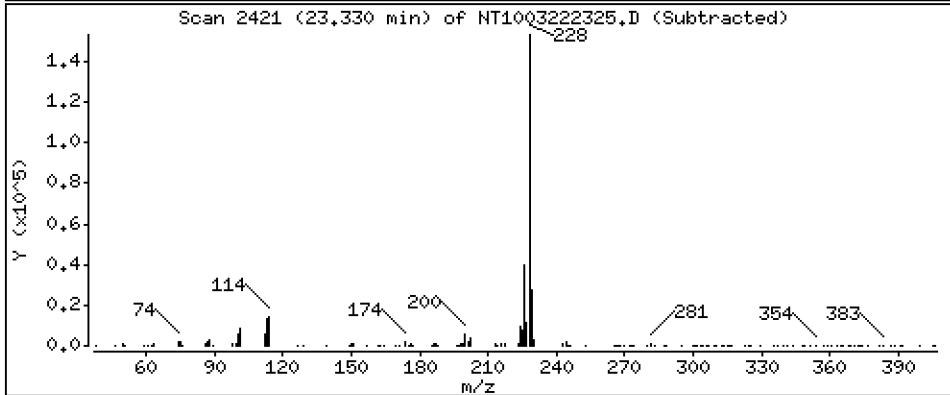
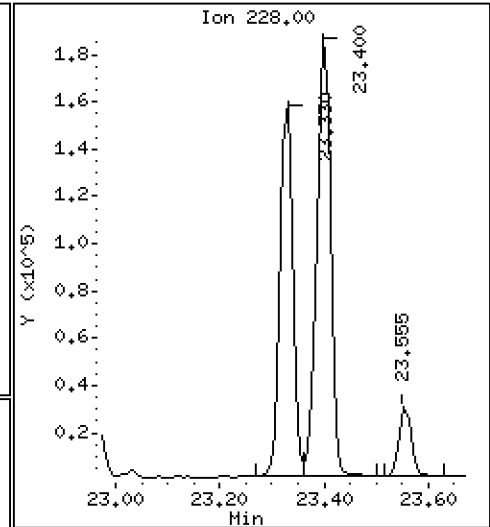
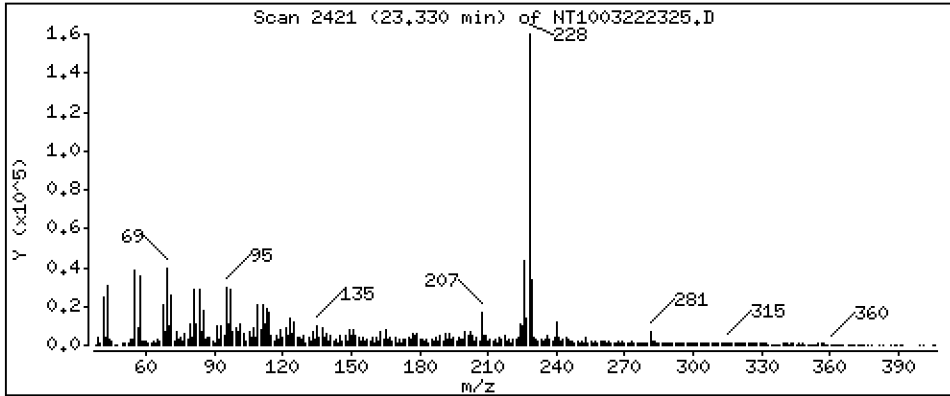
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 1,343 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

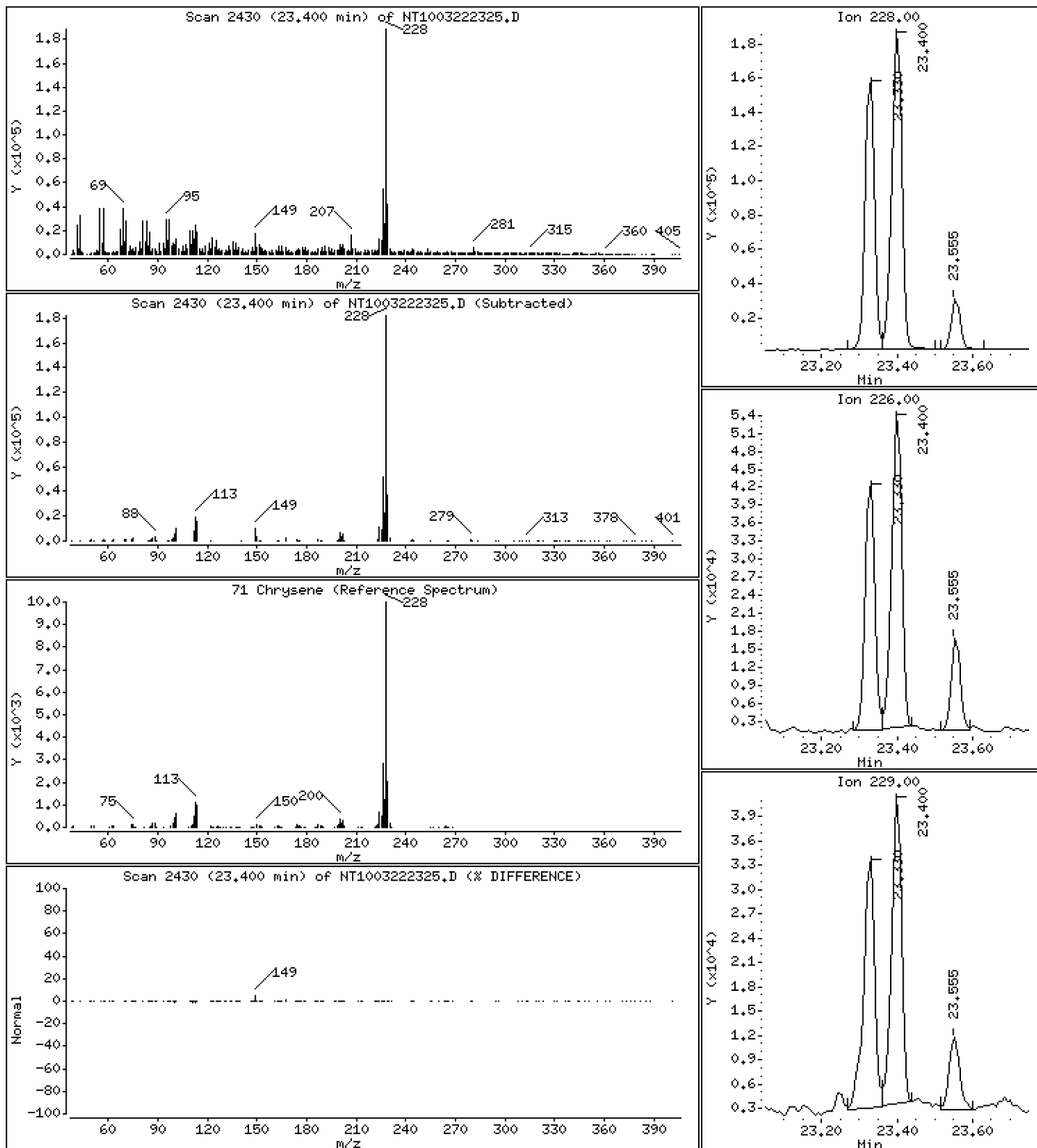
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 1,747 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

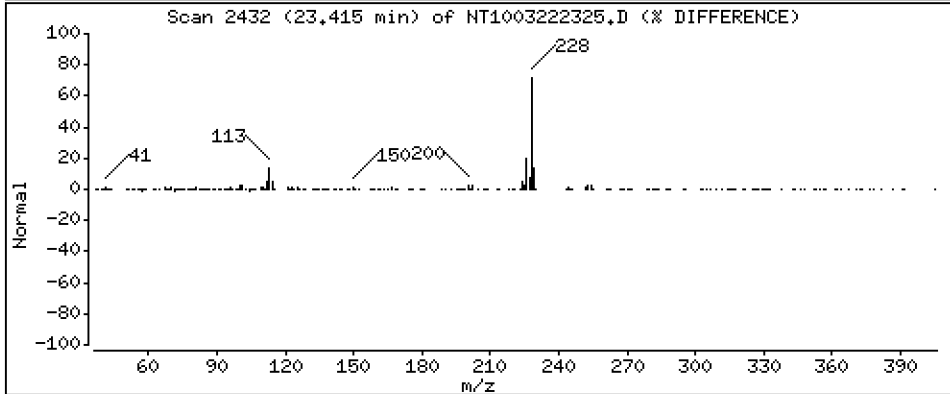
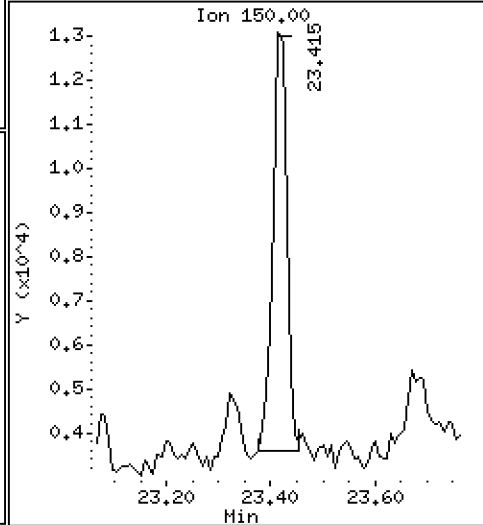
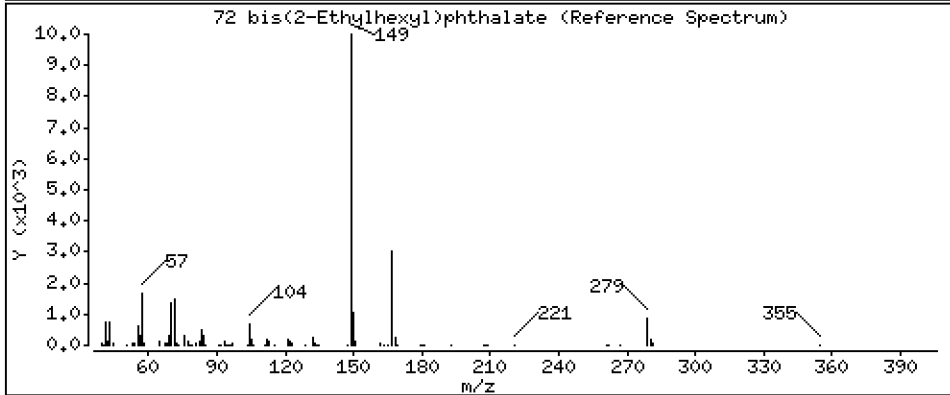
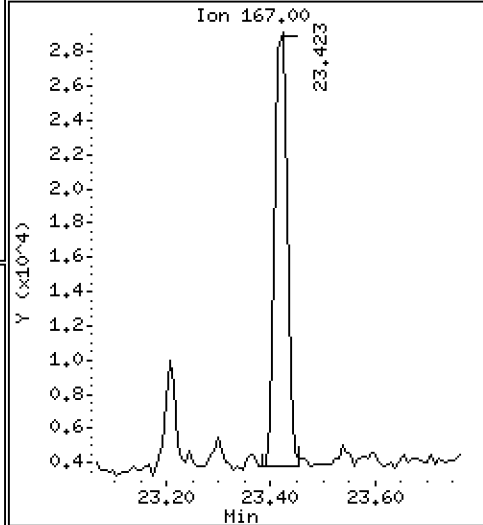
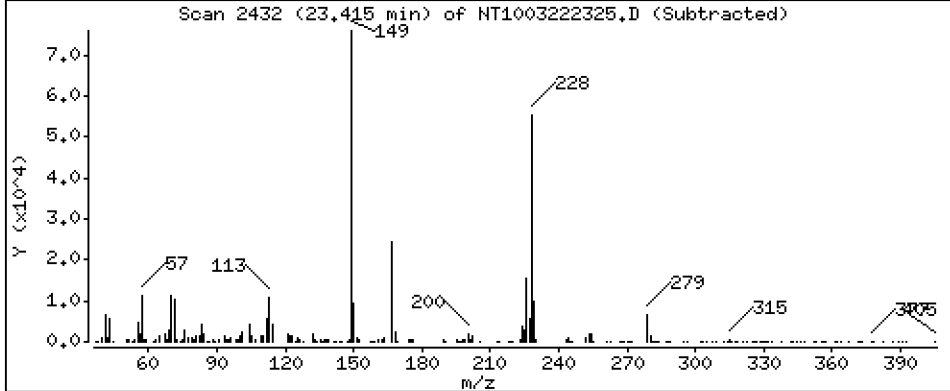
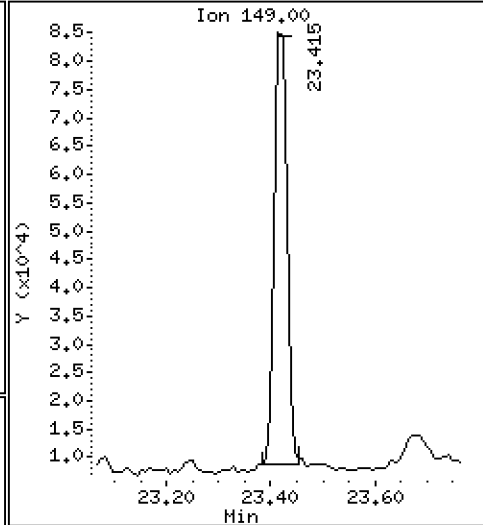
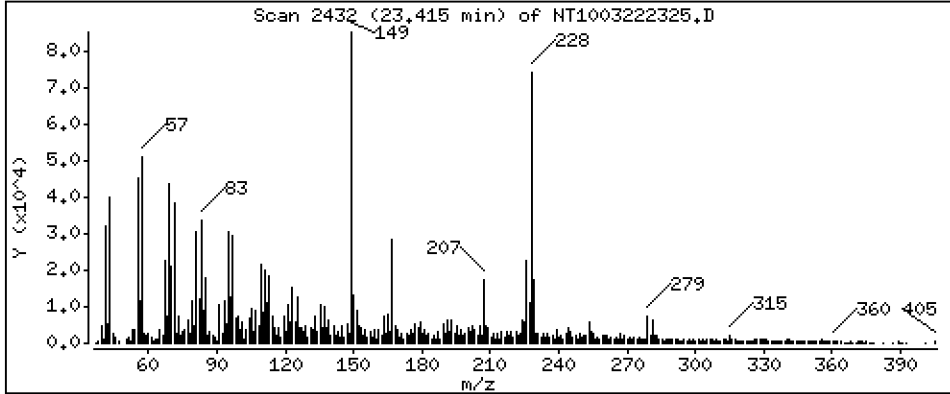
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,9104 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

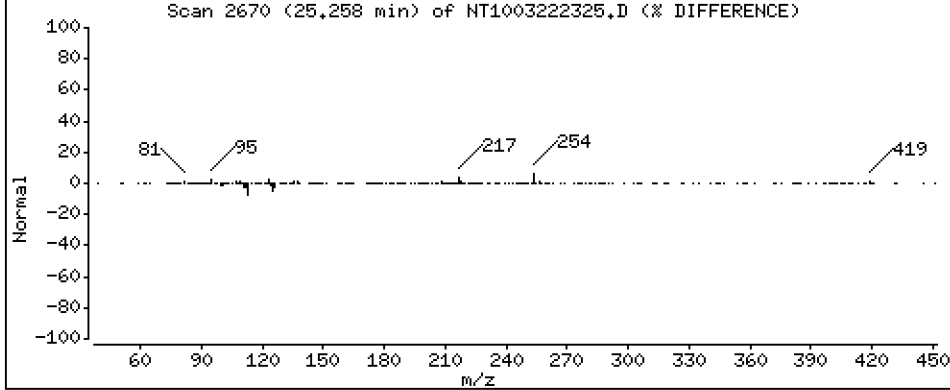
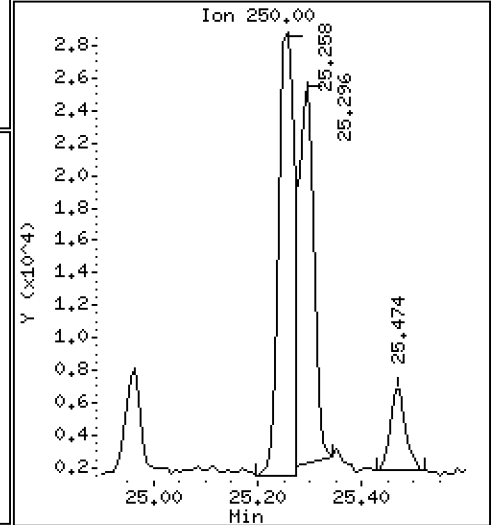
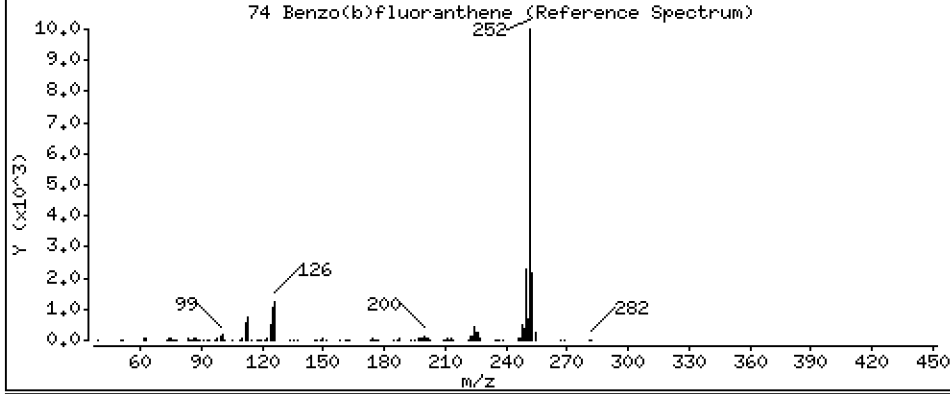
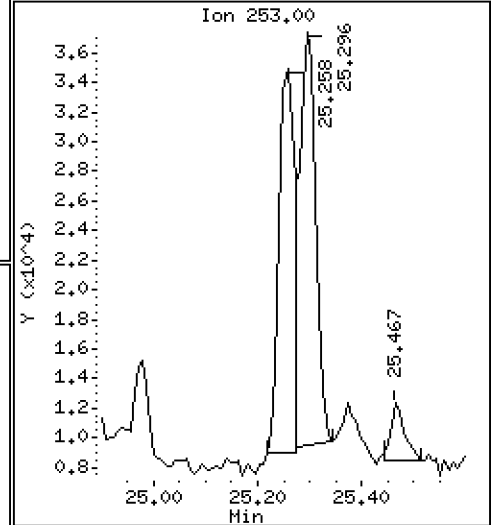
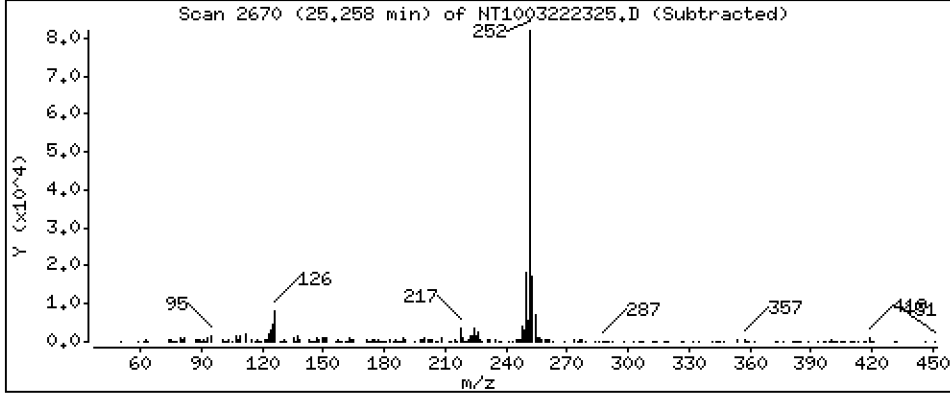
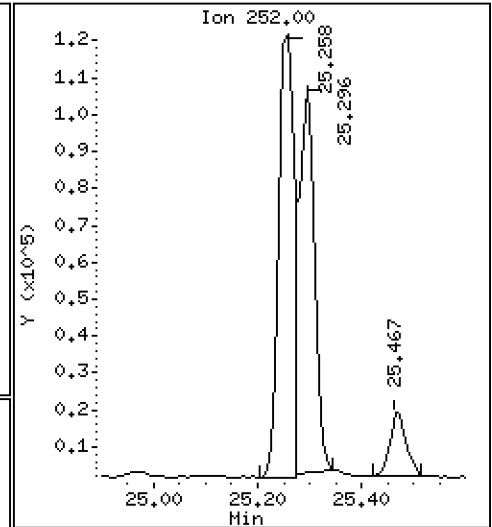
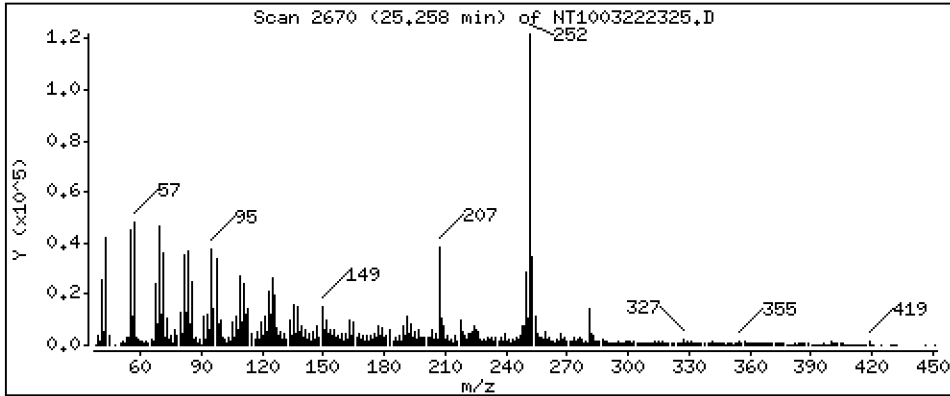
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 1,233 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

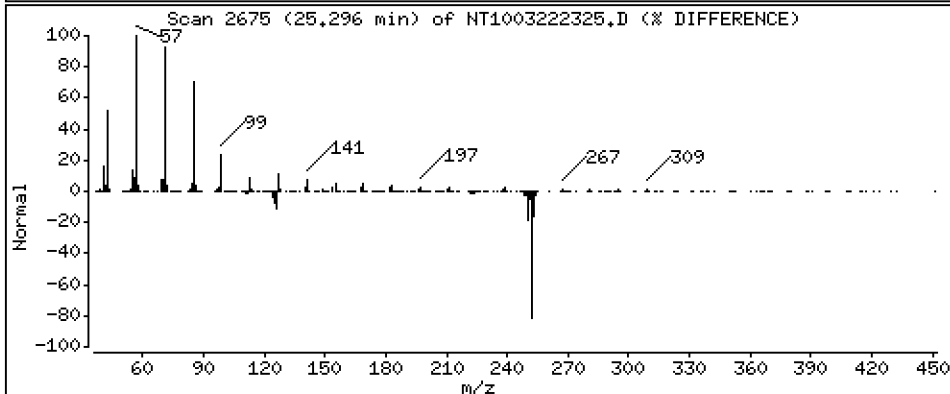
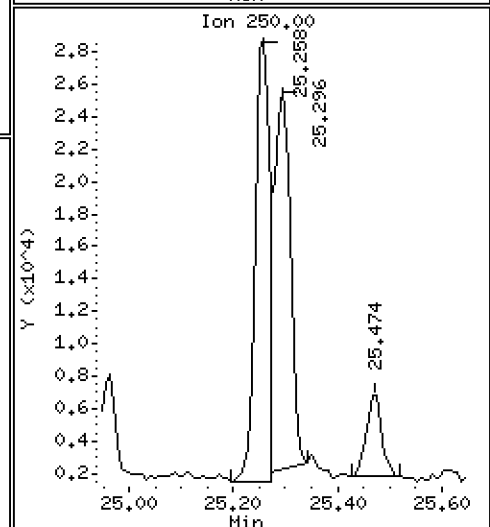
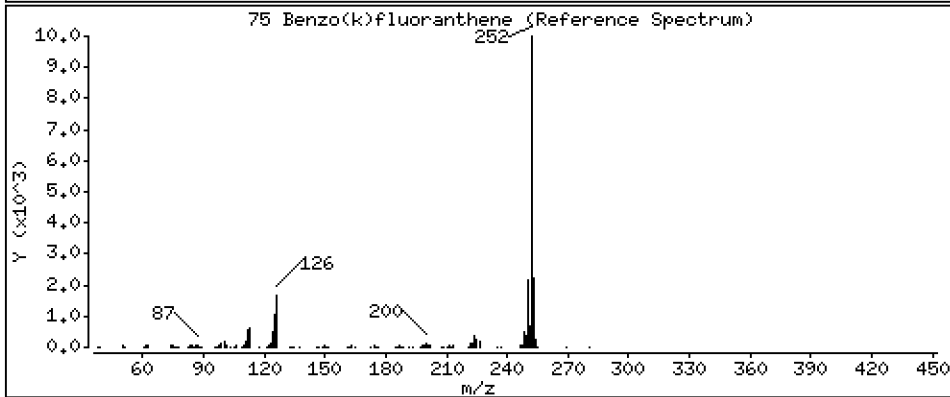
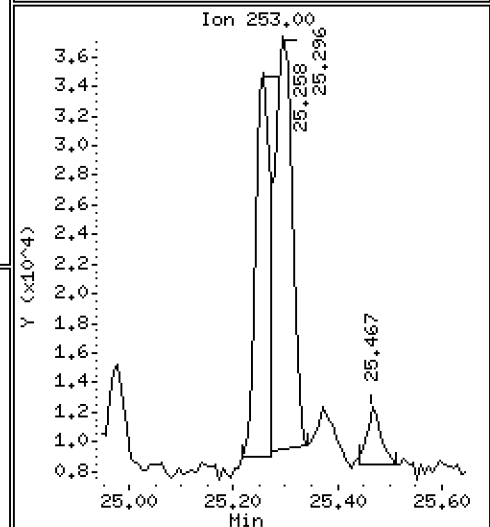
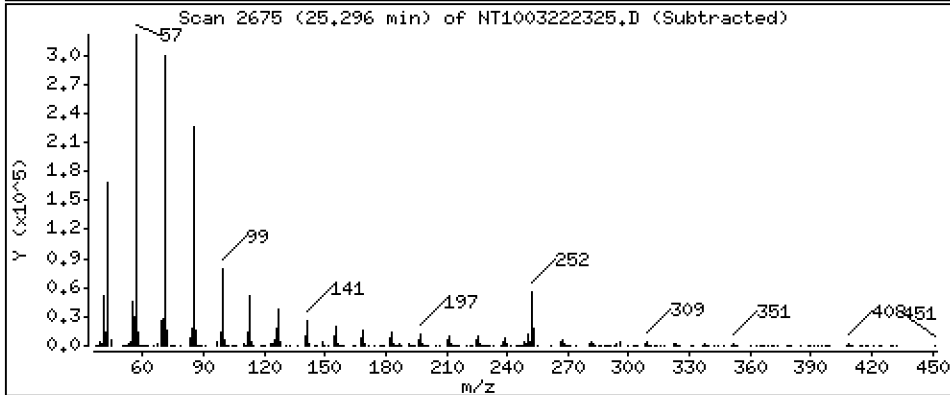
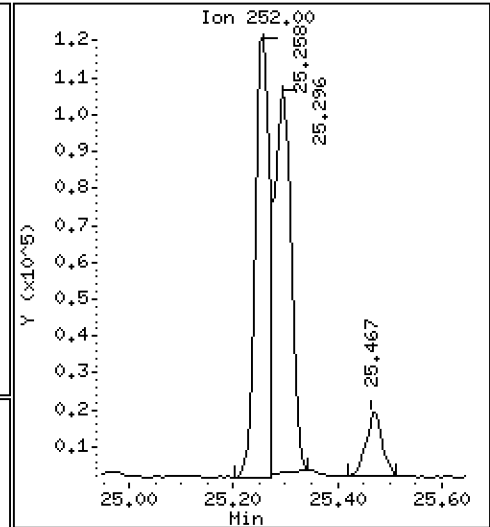
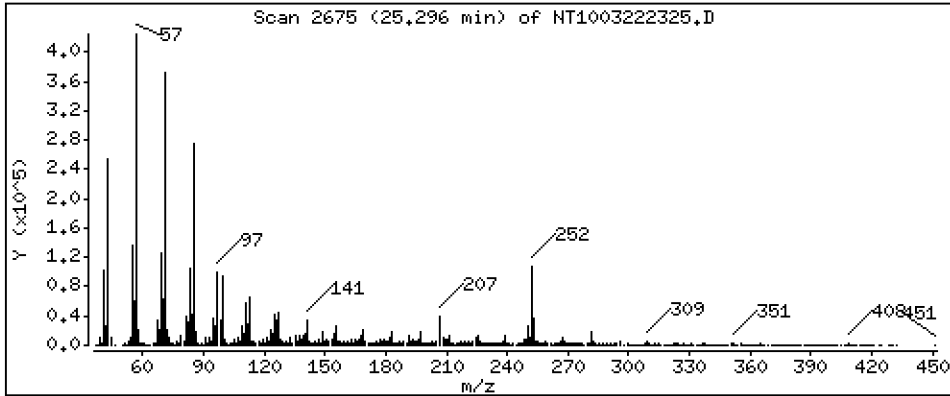
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

75 Benzo(k)fluoranthene

Concentration: 1,214 ug/mL





Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

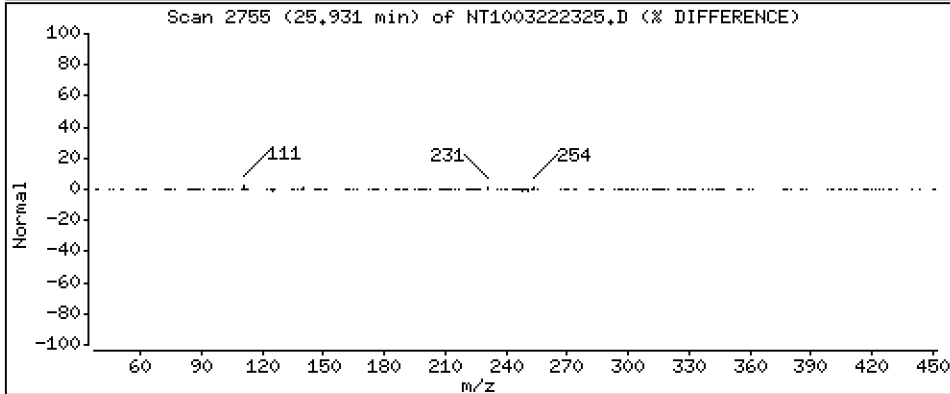
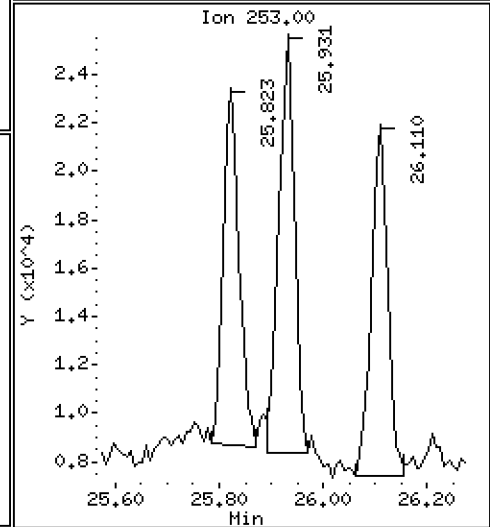
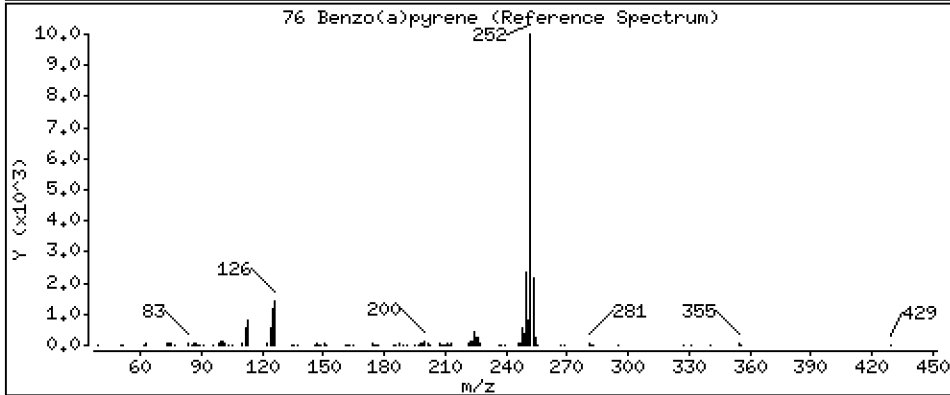
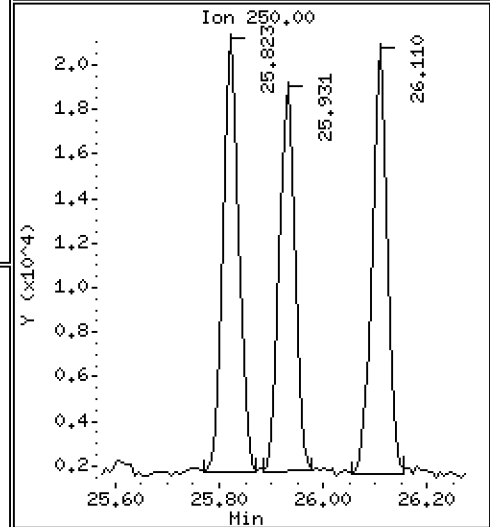
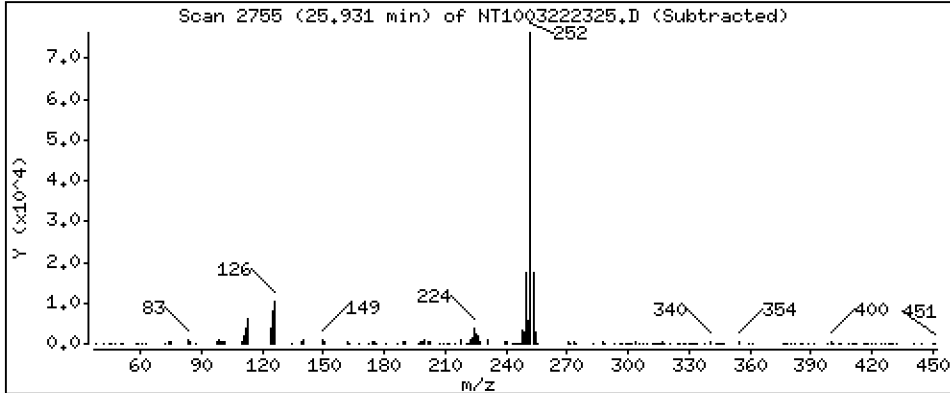
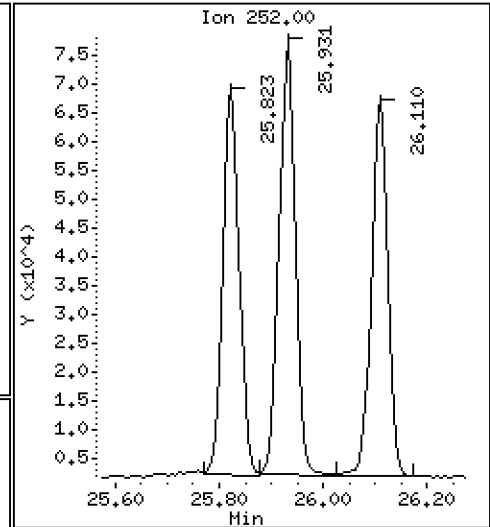
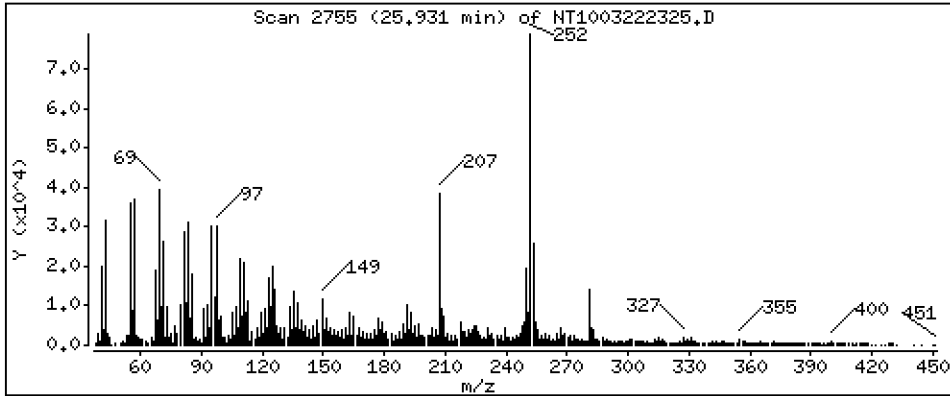
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,9248 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

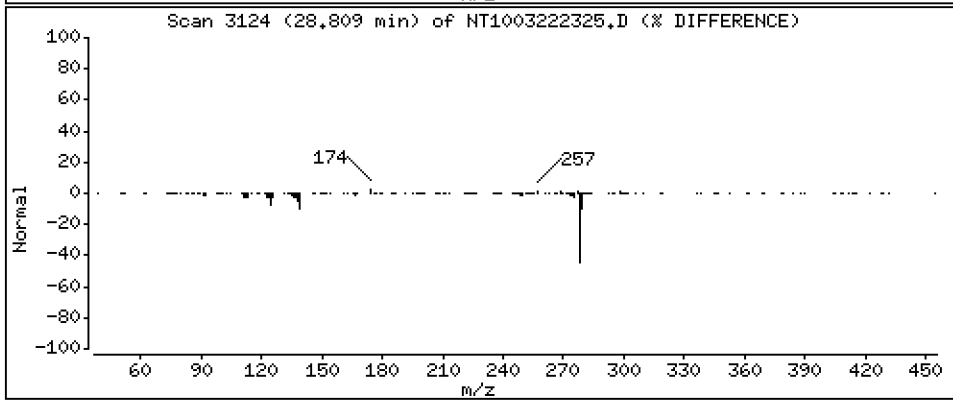
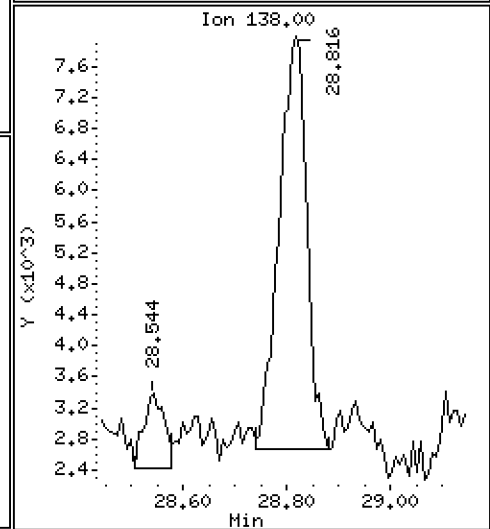
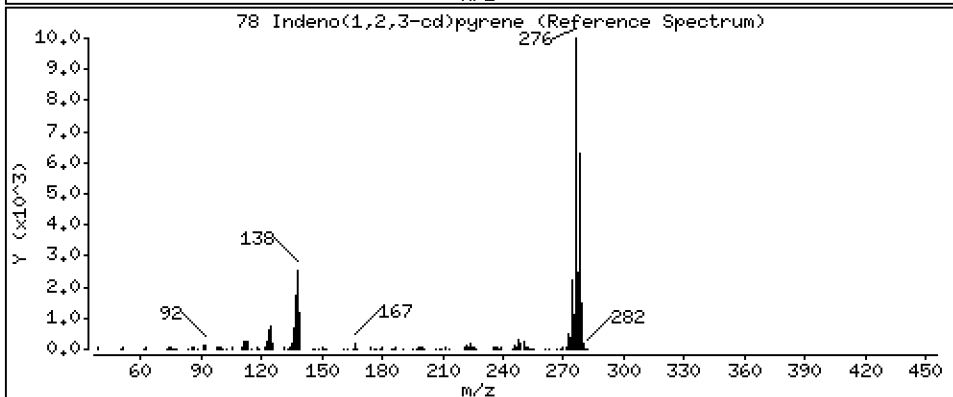
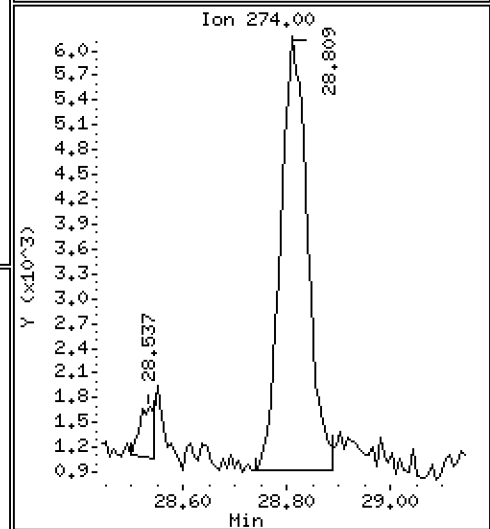
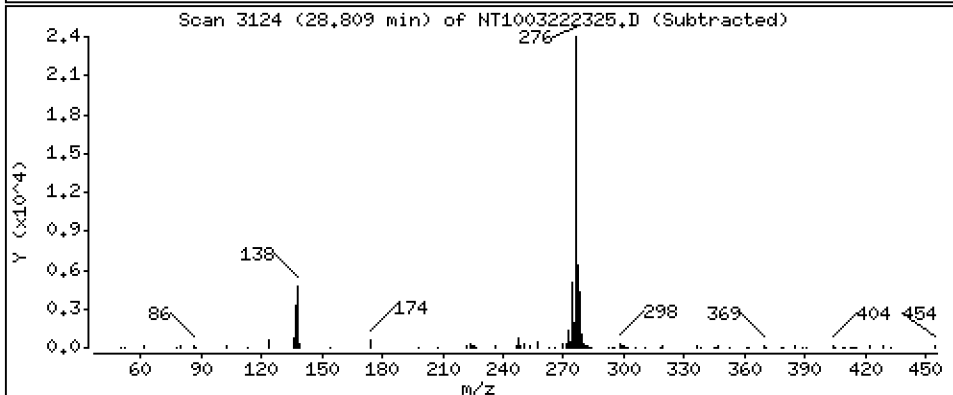
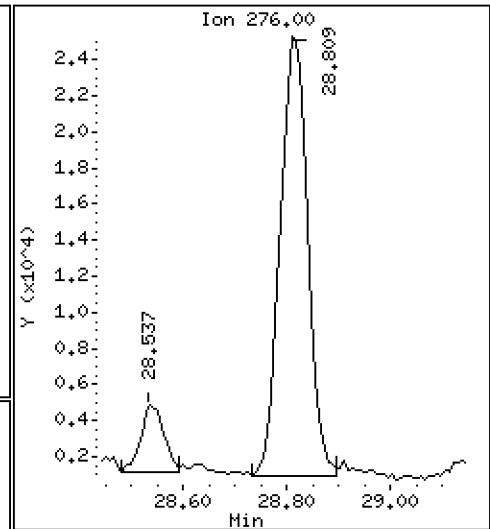
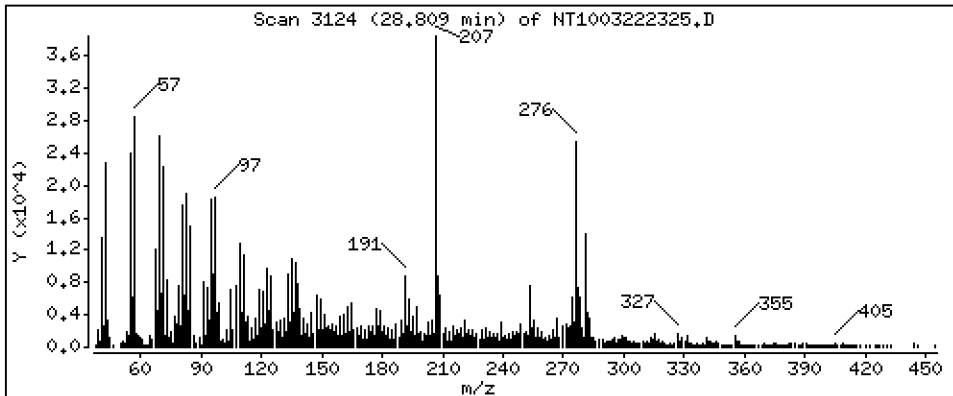
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,4043 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

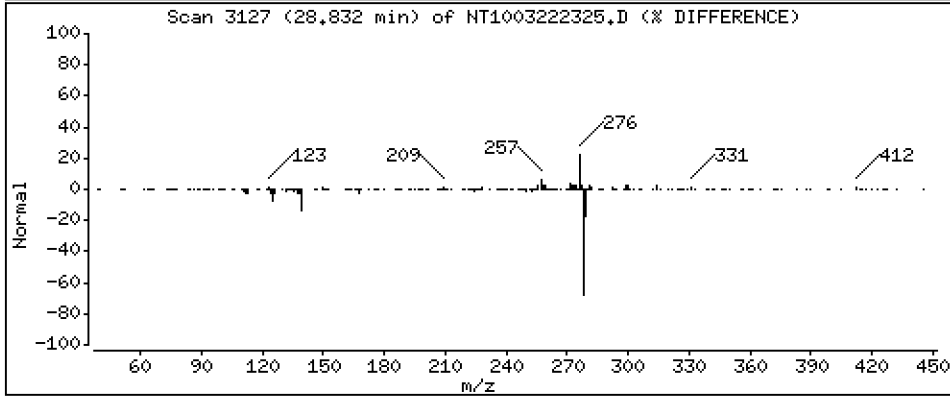
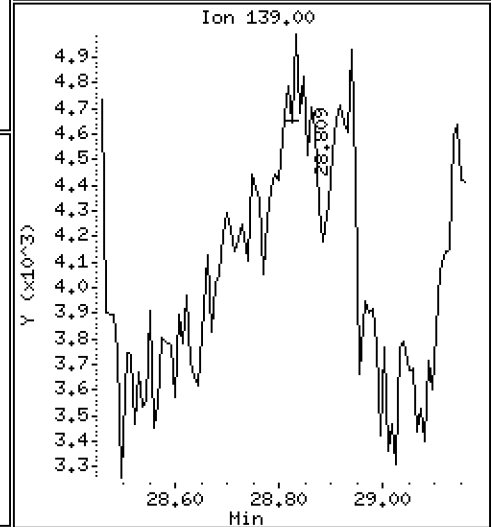
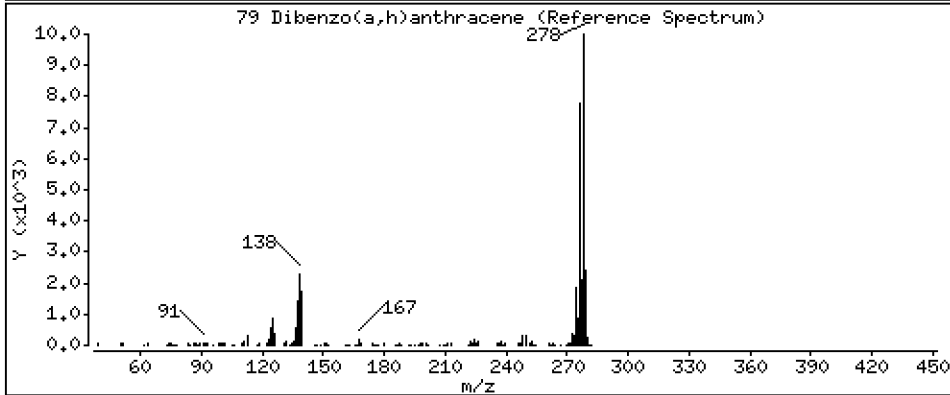
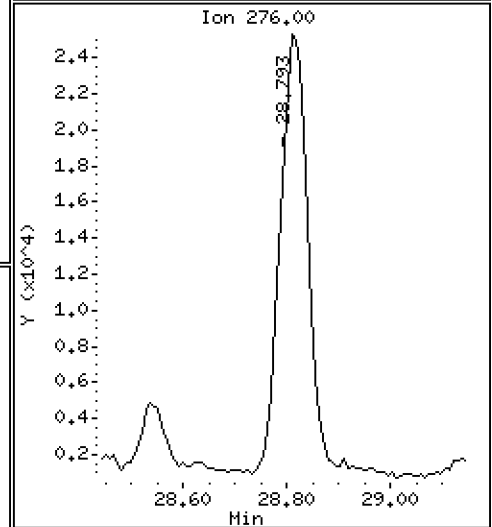
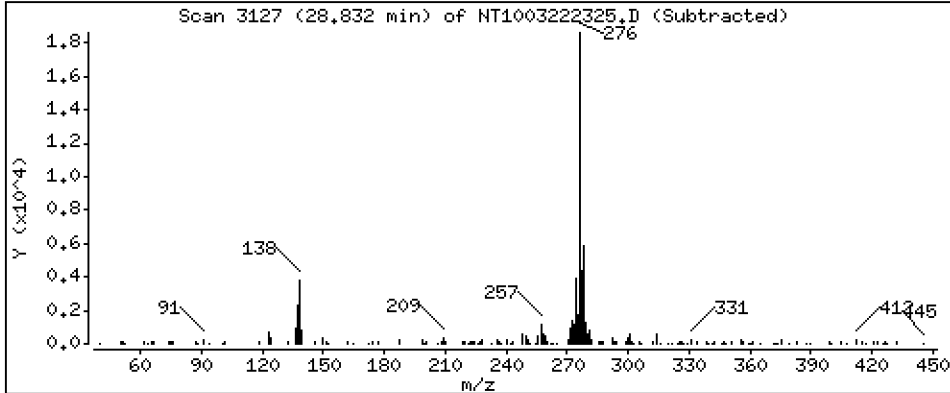
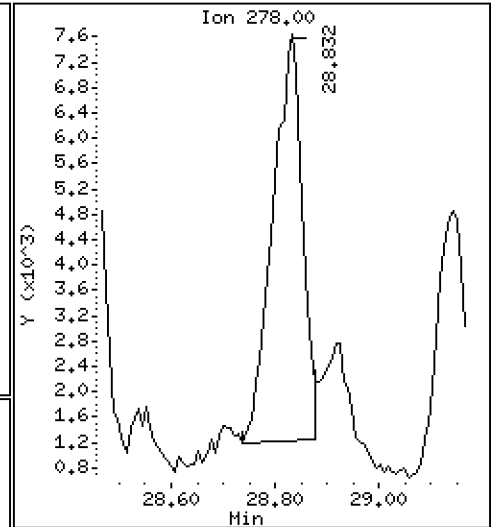
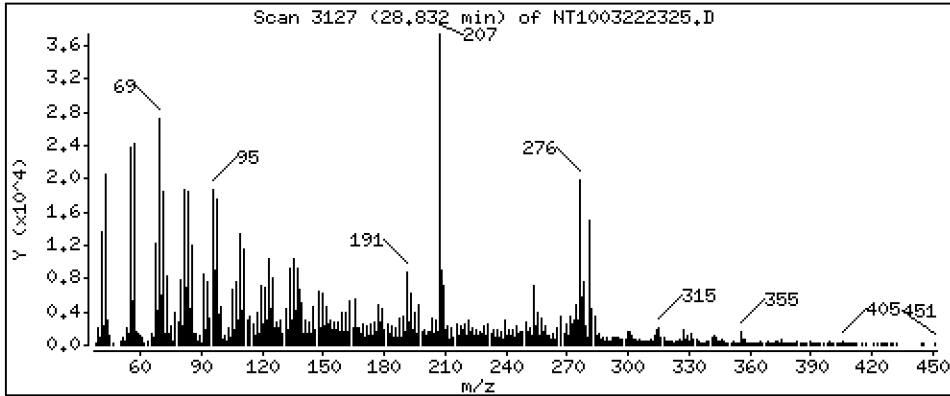
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1388 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

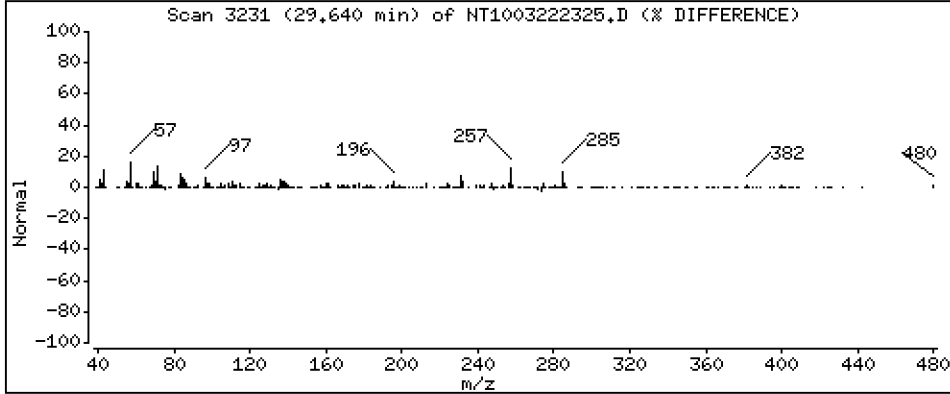
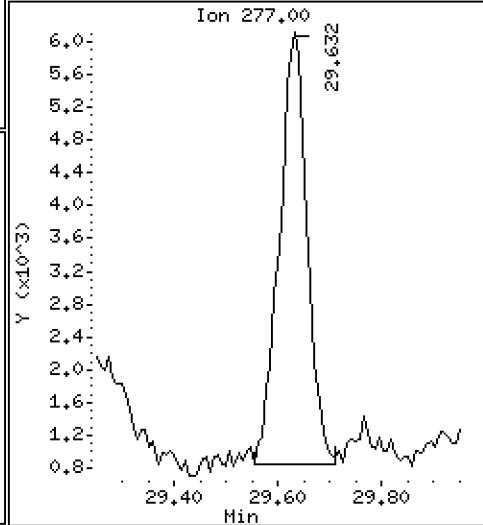
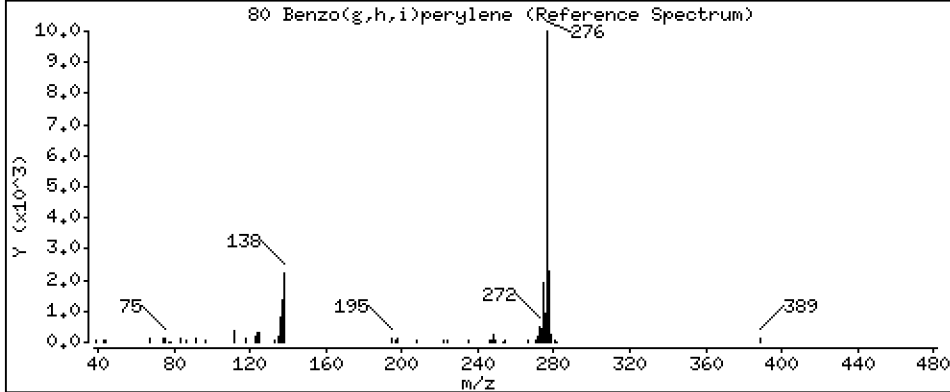
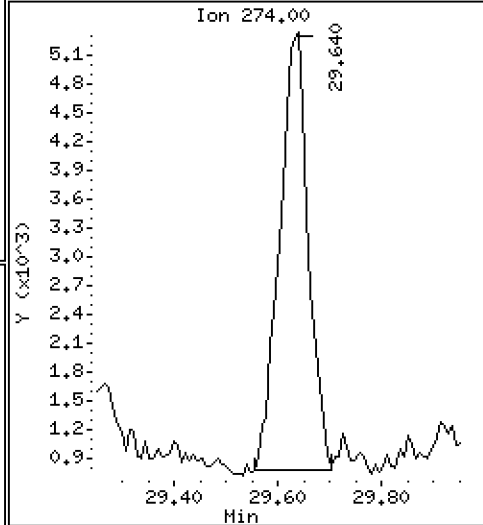
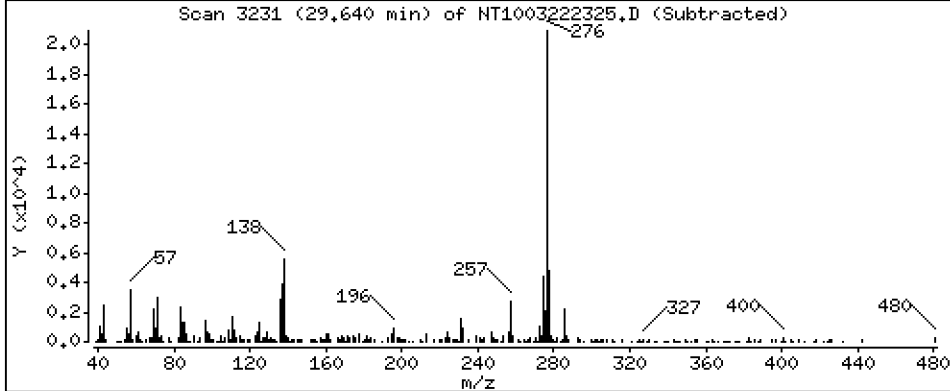
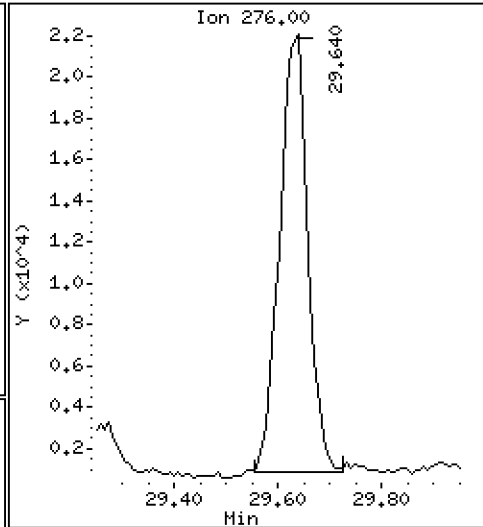
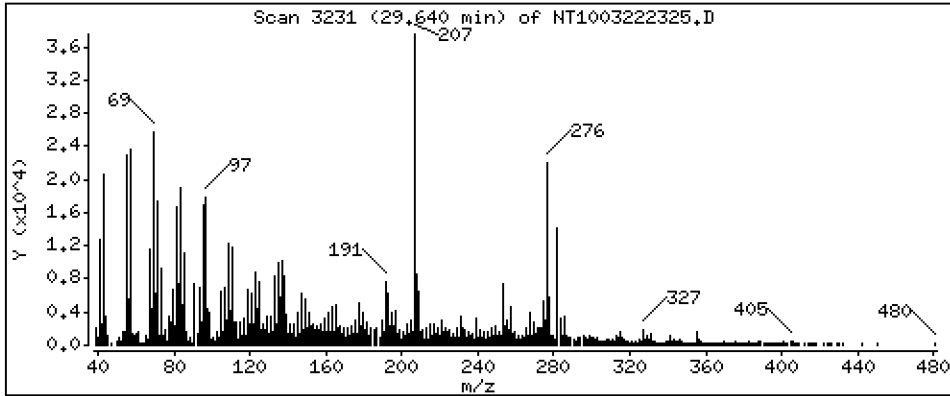
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,4198 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

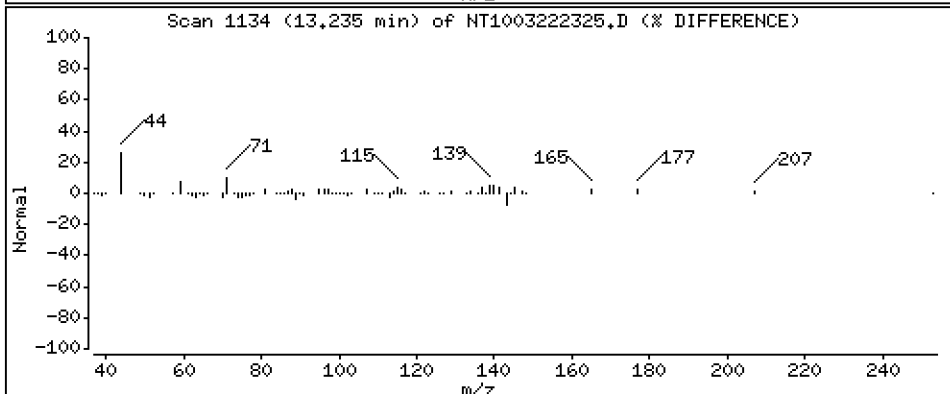
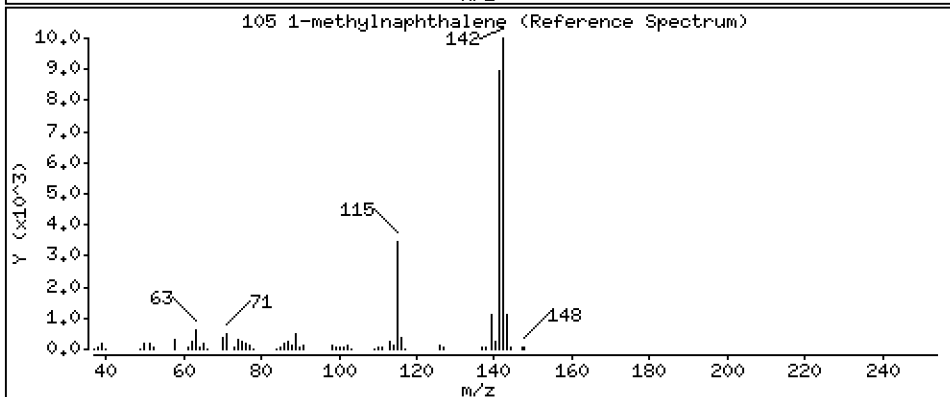
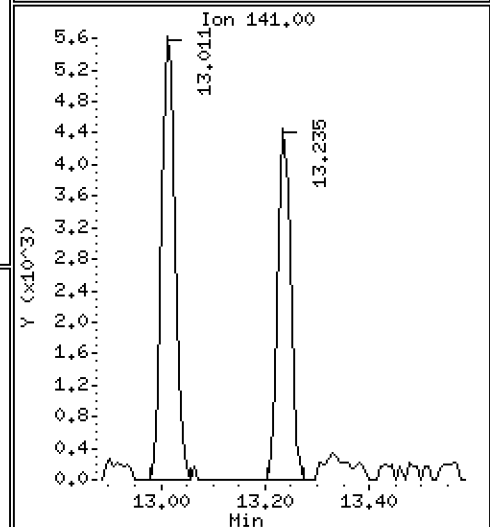
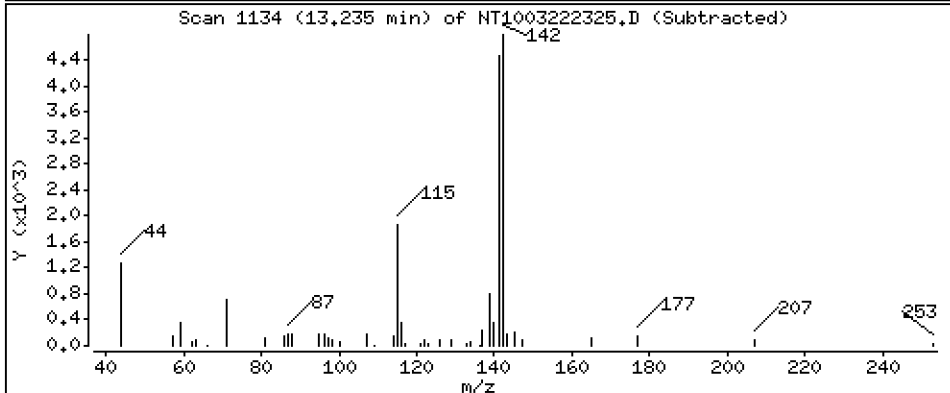
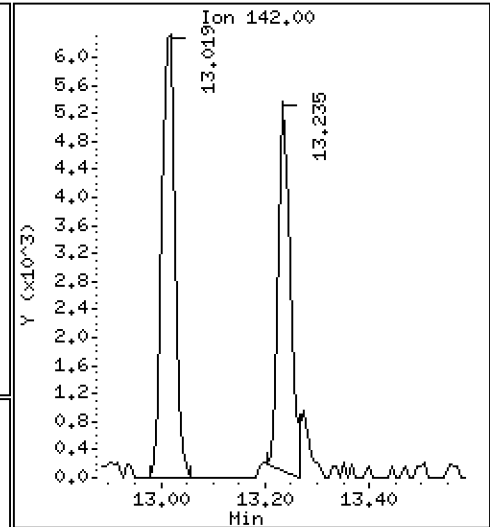
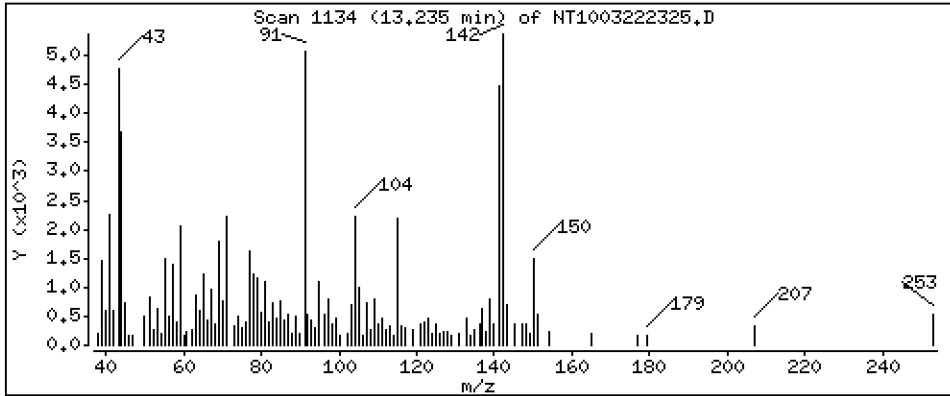
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,08375 ug/mL



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09RE1

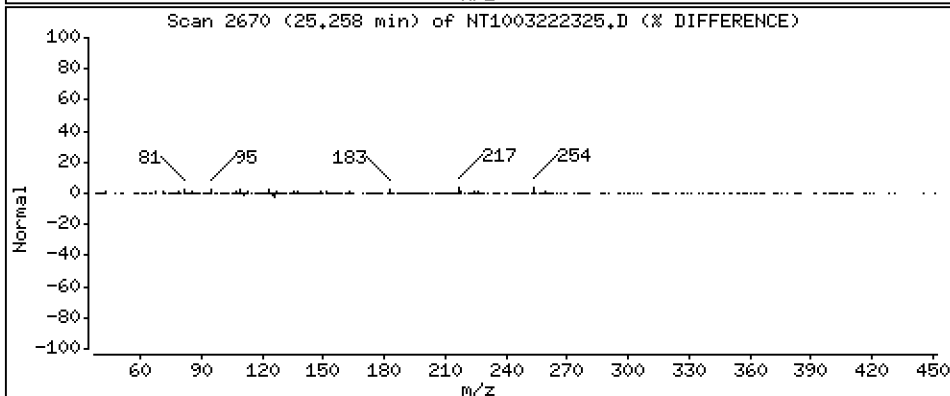
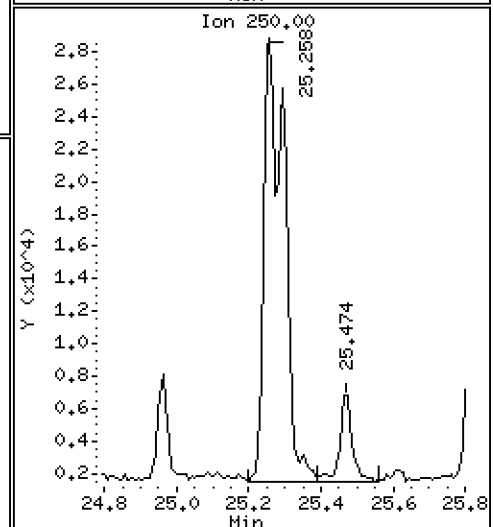
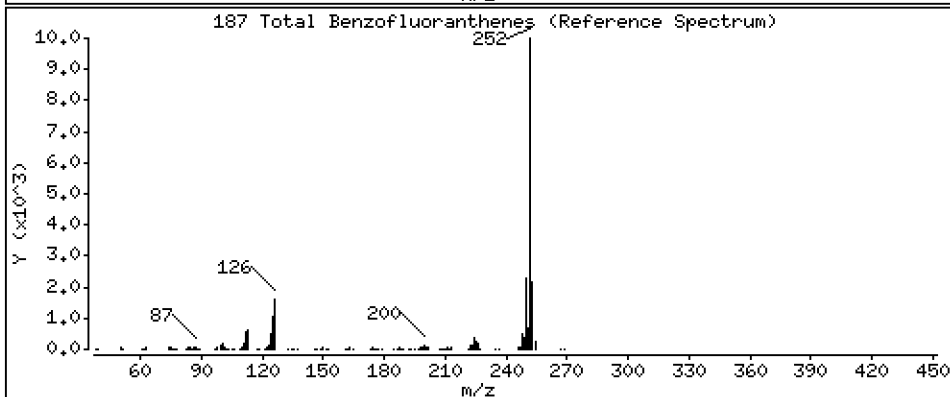
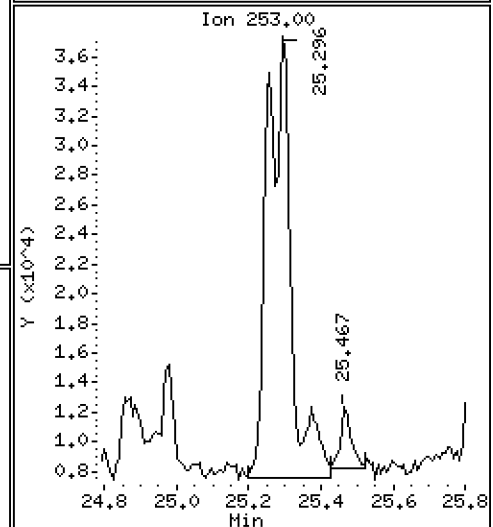
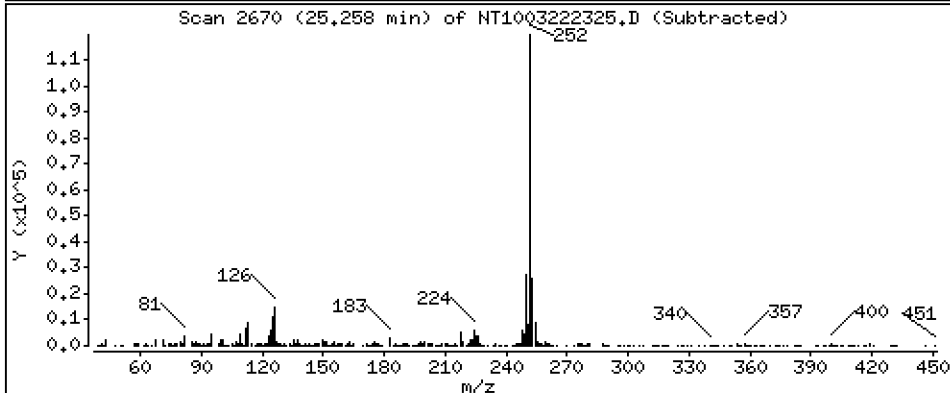
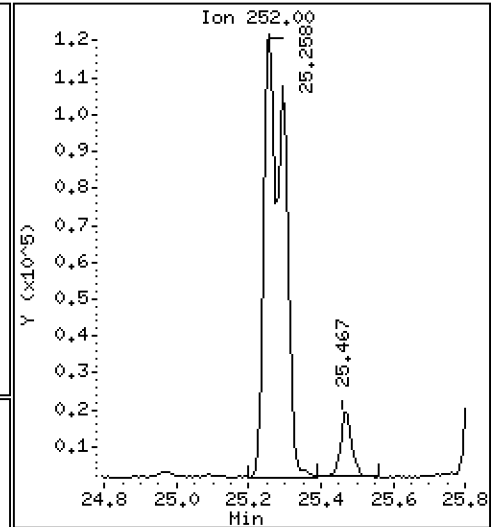
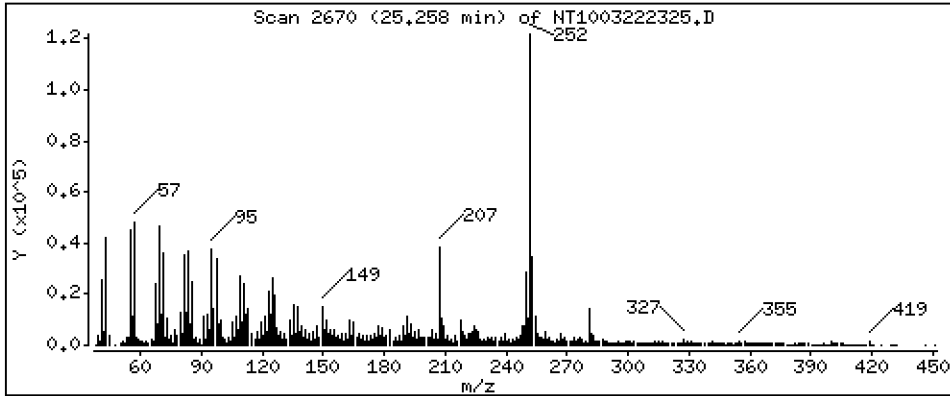
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 2,413 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222325.D  
 Lab Smp Id: 23A0179-09RE1  
 Inj Date : 23-MAR-2023 08:17  
 Operator : VTS  
 Smp Info : 23A0179-09RE1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 10:11 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 20  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |             |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-------------|
|                                 |       |     |                        |        |         |          | ON-COLUMN      | FINAL       |
|                                 | MASS  |     |                        |        |         |          | (ug/mL)        | (ug/mL)     |
| \$ 1 2-Fluorophenol             | 112   |     | 6.866                  | 6.851  | (0.756) | 175368   | 3.90433        | 3.904       |
| \$ 2 Phenol-d5                  | 99    |     | 8.458                  | 8.450  | (0.931) | 233306   | 3.95947        | 3.959       |
| 3 Phenol                        | 94    |     | 8.481                  | 8.474  | (0.934) | 401365   | 6.55496        | 6.555       |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.728                  | 8.721  | (0.961) | 209732   | 4.16826        | 4.168       |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | Compound Not Detected. |        |         |          |                |             |
| 6 2-Chlorophenol                | 128   |     | Compound Not Detected. |        |         |          |                |             |
| 7 1,3-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |             |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.084                  | 9.085  | (1.000) | 148527   | 4.00000        |             |
| 9 1,4-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |             |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.441                  | 9.441  | (1.039) | 92844    | 2.56937        | 2.569       |
| 12 1,2-Dichlorobenzene          | 146   |     | Compound Not Detected. |        |         |          |                |             |
| 11 Benzyl alcohol               | 108   |     | 9.356                  | 9.356  | (1.030) | 11588    | 0.40320        | 0.4032      |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | Compound Not Detected. |        |         |          |                |             |
| 13 2-Methylphenol               | 108   |     | 9.597                  | 9.589  | (1.056) | 1207     | 0.02704        | 0.02704 (M) |
| 17 Hexachloroethane             | 117   |     | Compound Not Detected. |        |         |          |                |             |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | Compound Not Detected. |        |         |          |                |             |
| 15 4-Methylphenol               | 108   |     | 9.861                  | 9.861  | (1.085) | 61746    | 1.31290        | 1.313       |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.179                 | 10.179 | (0.880) | 148923   | 2.70298        | 2.703       |
| 19 Nitrobenzene                 | 77    |     | Compound Not Detected. |        |         |          |                |             |
| 20 Isophorone                   | 82    |     | Compound Not Detected. |        |         |          |                |             |
| 21 2-Nitrophenol                | 139   |     | Compound Not Detected. |        |         |          |                |             |
| 22 2,4-Dimethylphenol           | 107   |     | Compound Not Detected. |        |         |          |                |             |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | Compound Not Detected. |        |         |          |                |             |
| 24 Benzoic acid                 | 105   |     | 11.028                 | 11.105 | (0.953) | 32558    | 1.17787        | 1.178       |
| 25 2,4-Dichlorophenol           | 162   |     | Compound Not Detected. |        |         |          |                |             |
| 26 1,2,4-Trichlorobenzene       | 180   |     | Compound Not Detected. |        |         |          |                |             |
| * 27 Naphthalene-d8             | 136   |     | 11.572                 | 11.572 | (1.000) | 545849   | 4.00000        |             |
| 28 Naphthalene                  | 128   |     | 11.618                 | 11.618 | (1.004) | 16404    | 0.11344        | 0.1134      |
| 29 4-Chloroaniline              | 127   |     | Compound Not Detected. |        |         |          |                |             |
| 30 Hexachlorobutadiene          | 225   |     | Compound Not Detected. |        |         |          |                |             |
| 31 4-Chloro-3-methylphenol      | 107   |     | Compound Not Detected. |        |         |          |                |             |
| 32 2-Methylnaphthalene          | 142   |     | 13.018                 | 13.018 | (1.125) | 10611    | 0.10168        | 0.1017      |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                |             |

| Compounds                         | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
|                                   |       |     |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| § 36 2-Fluorobiphenyl             | 172   |     | 13.800 | 13.800 | (0.908) | 341709   | 2.82712              | 2.827            |
| 37 2-Chloronaphthalene            | 162   |     |        |        |         |          |                      |                  |
| 38 2-Nitroaniline                 | 65    |     |        |        |         |          |                      |                  |
| 39 Dimethylphthalate              | 163   |     |        |        |         |          |                      |                  |
| 40 Acenaphthylene                 | 152   |     | 14.884 | 14.884 | (0.979) | 12508    | 0.08202              | 0.08202          |
| 41 2,6-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| * 42 Acenaphthene-d10             | 164   |     | 15.201 | 15.201 | (1.000) | 305553   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 44 Acenaphthene                   | 153   |     | 15.262 | 15.263 | (1.004) | 12331    | 0.13088              | 0.1309           |
| 45 2,4-Dinitrophenol              | 184   |     |        |        |         |          |                      |                  |
| 46 Dibenzofuran                   | 168   |     | 15.595 | 15.595 | (1.026) | 20830    | 0.14993              | 0.1499           |
| 47 4-Nitrophenol                  | 109   |     |        |        |         |          |                      |                  |
| 48 2,4-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| 50 Diethylphthalate               | 149   |     | 16.167 | 16.175 | (1.064) | 13562    | 0.13925              | 0.1393           |
| 49 Fluorene                       | 166   |     | 16.314 | 16.314 | (1.073) | 24272    | 0.22206              | 0.2221           |
| 51 4-Chlorophenyl-phenylether     | 204   |     |        |        |         |          |                      |                  |
| 52 4-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     |        |        |         |          |                      |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     |        |        |         |          |                      |                  |
| § 55 2,4,6-Tribromophenol         | 330   |     | 16.846 | 16.846 | (1.108) | 83565    | 5.85741              | 5.857            |
| 56 4-Bromophenyl-phenylether      | 248   |     |        |        |         |          |                      |                  |
| 57 Hexachlorobenzene              | 284   |     |        |        |         |          |                      |                  |
| 58 Pentachlorophenol              | 266   |     |        |        |         |          |                      |                  |
| * 59 Phenanthrene-d10             | 188   |     | 18.260 | 18.260 | (1.000) | 580255   | 4.00000              |                  |
| 60 Phenanthrene                   | 178   |     | 18.307 | 18.307 | (1.003) | 234024   | 1.47908              | 1.479            |
| 61 Anthracene                     | 178   |     | 18.400 | 18.400 | (1.008) | 100045   | 0.65916              | 0.6592           |
| 62 Carbazole                      | 167   |     | 18.740 | 18.732 | (1.026) | 22576    | 0.16599              | 0.1660           |
| 63 Di-n-butylphthalate            | 149   |     | 19.552 | 19.545 | (1.071) | 8207     | 0.04487              | 0.04487          |
| 64 Fluoranthene                   | 202   |     | 20.728 | 20.713 | (0.888) | 677098   | 3.10321              | 3.103            |
| 65 Pyrene                         | 202   |     | 21.146 | 21.139 | (0.906) | 563759   | 2.51873              | 2.519            |
| § 66 Terphenyl-d14                | 244   |     | 21.440 | 21.433 | (0.918) | 483596   | 2.87701              | 2.877            |
| 67 Butylbenzylphthalate           | 149   |     |        |        |         |          |                      |                  |
| 68 Benzo(a)anthracene             | 228   |     | 23.330 | 23.322 | (0.999) | 257344   | 1.34266              | 1.343            |
| * 69 Chrysene-d12                 | 240   |     | 23.353 | 23.353 | (1.000) | 543015   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     |        |        |         |          |                      |                  |
| 71 Chrysene                       | 228   |     | 23.399 | 23.399 | (1.002) | 327200   | 1.74734              | 1.747            |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 23.415 | 23.415 | (0.958) | 122079   | 0.91040              | 0.9104           |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 24.429 | 24.421 | (1.000) | 916417   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149   |     |        |        |         |          |                      |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 25.257 | 25.250 | (0.969) | 241589   | 1.23301              | 1.233            |
| 75 Benzo(k)fluoranthene           | 252   |     | 25.296 | 25.296 | (0.971) | 241602   | 1.21435              | 1.214            |
| 76 Benzo(a)pyrene                 | 252   |     | 25.931 | 25.923 | (0.995) | 162002   | 0.92479              | 0.9248           |
| * 77 Perylene-d12                 | 264   |     | 26.055 | 26.040 | (1.000) | 604455   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 28.808 | 28.793 | (1.106) | 90110    | 0.40432              | 0.4043           |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 28.831 | 28.816 | (1.107) | 25690    | 0.13884              | 0.1388 (M)       |
| 80 Benzo(g,h,i)perylene           | 276   |     | 29.639 | 29.601 | (1.138) | 80960    | 0.41976              | 0.4198           |
| 90 N-Nitrosodimethylamine         | 74    |     |        |        |         |          |                      |                  |
| 91 Aniline                        | 93    |     |        |        |         |          |                      |                  |
| 93 Benzidine                      | 184   |     |        |        |         |          |                      |                  |
| 103 Pyridine                      | 79    |     |        |        |         |          |                      |                  |
| 105 1-methylnaphthalene           | 142   |     | 13.235 | 13.235 | (1.144) | 8007     | 0.08375              | 0.08375          |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     |        |        |         |          |                      |                  |



| Compounds                     | QUANT SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |  |
|-------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|--|
|                               |           |                        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |  |
| 187 Total Benzofluoranthenes  | 252       | 25.257                 | 25.296 | (0.969) | 456506   | 2.41308              | 2.413            |  |
| 120 2,3,4,6-Tetrachlorophenol | 232       | Compound Not Detected. |        |         |          |                      |                  |  |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-MAR-2023  
 Lab File ID: NT1003222325.D Calibration Time: 03:15  
 Lab Smp Id: 23A0179-09RE1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 137603   | 68802      | 275206  | 148527 | 7.94  |
| 27 Naphthalene-d8     | 494588   | 247294     | 989176  | 545849 | 10.36 |
| 42 Acenaphthene-d10   | 278674   | 139337     | 557348  | 305553 | 9.65  |
| 59 Phenanthrene-d10   | 509229   | 254615     | 1018458 | 580255 | 13.95 |
| 69 Chrysene-d12       | 462271   | 231136     | 924542  | 543015 | 17.47 |
| 134 Di-n-octylphthala | 782572   | 391286     | 1565144 | 916417 | 17.10 |
| 77 Perylene-d12       | 551153   | 275577     | 1102306 | 604455 | 9.67  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.09     | 8.59     | 9.59  | 9.08   | -0.00 |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.57  | -0.00 |
| 42 Acenaphthene-d10   | 15.20    | 14.70    | 15.70 | 15.20  | -0.00 |
| 59 Phenanthrene-d10   | 18.26    | 17.76    | 18.76 | 18.26  | -0.00 |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.35  | -0.00 |
| 134 Di-n-octylphthala | 24.42    | 23.92    | 24.92 | 24.43  | 0.03  |
| 77 Perylene-d12       | 26.04    | 25.54    | 26.54 | 26.06  | 0.06  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222325.D

Lab ID: 23A0179-09RE1  
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 08:17

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND     |
|-------|---------|---------|--------------|
| 0.953 | 0.960   | -0.0066 | Benzoic acid |

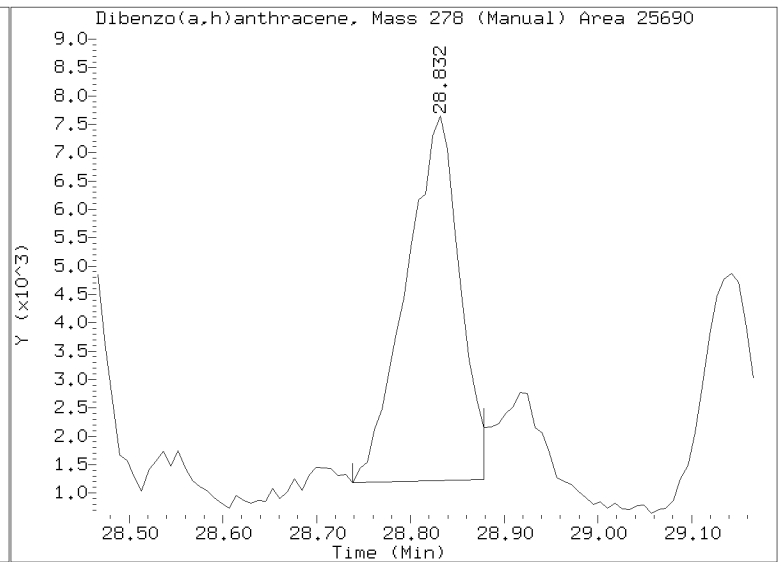
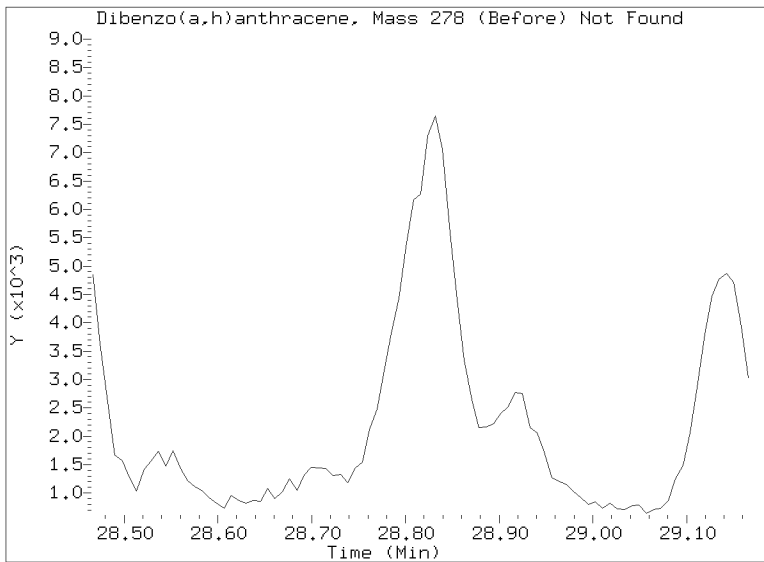
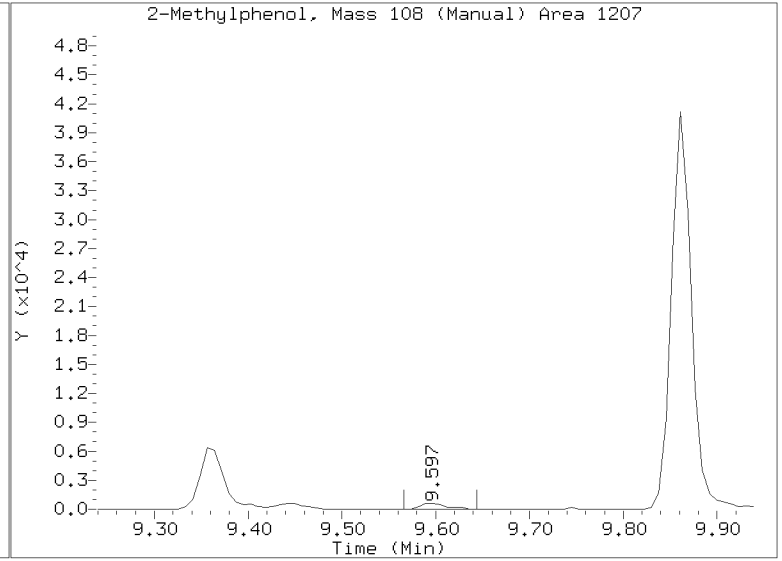
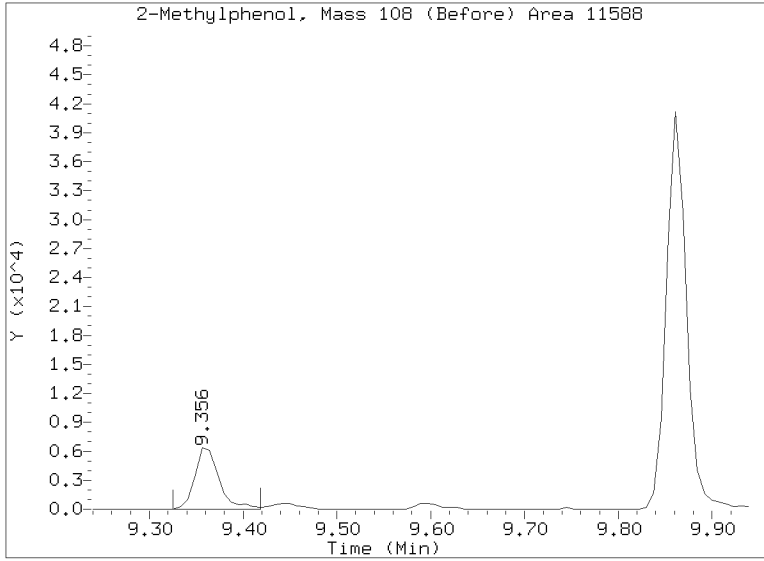
RRT check based on Ccal File: NT1003222317.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222325.D  
Injection Date: 23-MAR-2023 08:17  
Lab ID:23A0179-09RE1 Client ID:  
Report Date: 03/25/2023 10:16





Form I  
ORGANIC ANALYSIS DATA SHEET  
EPA 8270E  
Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-10RE1 A

SDG: 23A0179

Sampled: 01/10/23 11:28

Prepared: 03/17/23 11:16

File ID: NT1003222326.D

% Solids: 49.27

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 08:55

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 20.35 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| CAS NO.  | COMPOUND                    | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|-----------------------------|----------|----------------------|---|------|------|
| 108-95-2 | Phenol                      | 1        | 545                  |   | 4.4  | 19.9 |
| 106-44-5 | 4-Methylphenol              | 1        | 382                  |   | 7.4  | 19.9 |
| 91-20-3  | Naphthalene                 | 1        | 26.6                 |   | 4.2  | 19.9 |
| 91-57-6  | 2-Methylnaphthalene         | 1        | 20.6                 |   | 4.5  | 19.9 |
| 208-96-8 | Acenaphthylene              | 1        | 11.9                 | J | 6.2  | 19.9 |
| 131-11-3 | Dimethylphthalate           | 1        | 6.7                  | J | 4.4  | 19.9 |
| 83-32-9  | Acenaphthene                | 1        | 41.2                 |   | 5.2  | 19.9 |
| 132-64-9 | Dibenzofuran                | 1        | 25.8                 |   | 14.1 | 19.9 |
| 86-73-7  | Fluorene                    | 1        | 28.6                 |   | 14.5 | 19.9 |
| 85-01-8  | Phenanthrene                | 1        | 145                  |   | 8.7  | 19.9 |
| 120-12-7 | Anthracene                  | 1        | 53.2                 |   | 7.2  | 19.9 |
| 206-44-0 | Fluoranthene                | 1        | 277                  |   | 6.1  | 19.9 |
| 129-00-0 | Pyrene                      | 1        | 246                  |   | 5.7  | 19.9 |
| 85-68-7  | Butylbenzylphthalate        | 1        | 19.9                 | U | 9.4  | 19.9 |
| 56-55-3  | Benzo(a)anthracene          | 1        | 150                  |   | 5.9  | 19.9 |
| 218-01-9 | Chrysene                    | 1        | 199                  |   | 6.0  | 19.9 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate  | 1        | 138                  |   | 5.4  | 49.9 |
|          | Benzo(a)fluoranthene, Total | 1        | 330                  |   | 10.0 | 39.9 |
| 50-32-8  | Benzo(a)pyrene              | 1        | 131                  |   | 4.2  | 19.9 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene      | 1        | 59.7                 |   | 14.6 | 19.9 |
| 53-70-3  | Dibenzo(a,h)anthracene      | 1        | 19.1                 | J | 17.2 | 19.9 |
| 191-24-2 | Benzo(g,h,i)perylene        | 1        | 63.1                 |   | 13.6 | 19.9 |

| SURROGATES             | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol         | 748.02                | 560                   | 74.8  | 27 - 120  |   |
| Phenol-d5              | 748.02                | 575                   | 76.9  | 29 - 120  |   |
| 2-Chlorophenol-d4      | 748.02                | 604                   | 80.8  | 31 - 120  |   |
| 1,2-Dichlorobenzene-d4 | 498.68                | 367                   | 73.6  | 32 - 120  |   |
| Nitrobenzene-d5        | 498.68                | 386                   | 77.4  | 30 - 120  |   |
| 2-Fluorobiphenyl       | 498.68                | 412                   | 82.6  | 35 - 120  |   |



**Form I**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8270E**  
**Semivolatiles (20ug/kg - 0.2ug/L SepF)**

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-10RE1 A

SDG: 23A0179

Sampled: 01/10/23 11:28

Prepared: 03/17/23 11:16

File ID: NT1003222326.D

% Solids: 49.27

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 08:55

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 20.35 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| SURROGATES           | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------|-----------------------|-----------------------|-------|-----------|---|
| 2,4,6-Tribromophenol | 748.02                | 850                   | 114   | 24 - 134  |   |
| p-Terphenyl-d14      | 498.68                | 421                   | 84.4  | 37 - 120  |   |

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222326.D

Date: 23-MAR-2023 08:55

Client ID:

Sample Info: 23A0179-10RE1

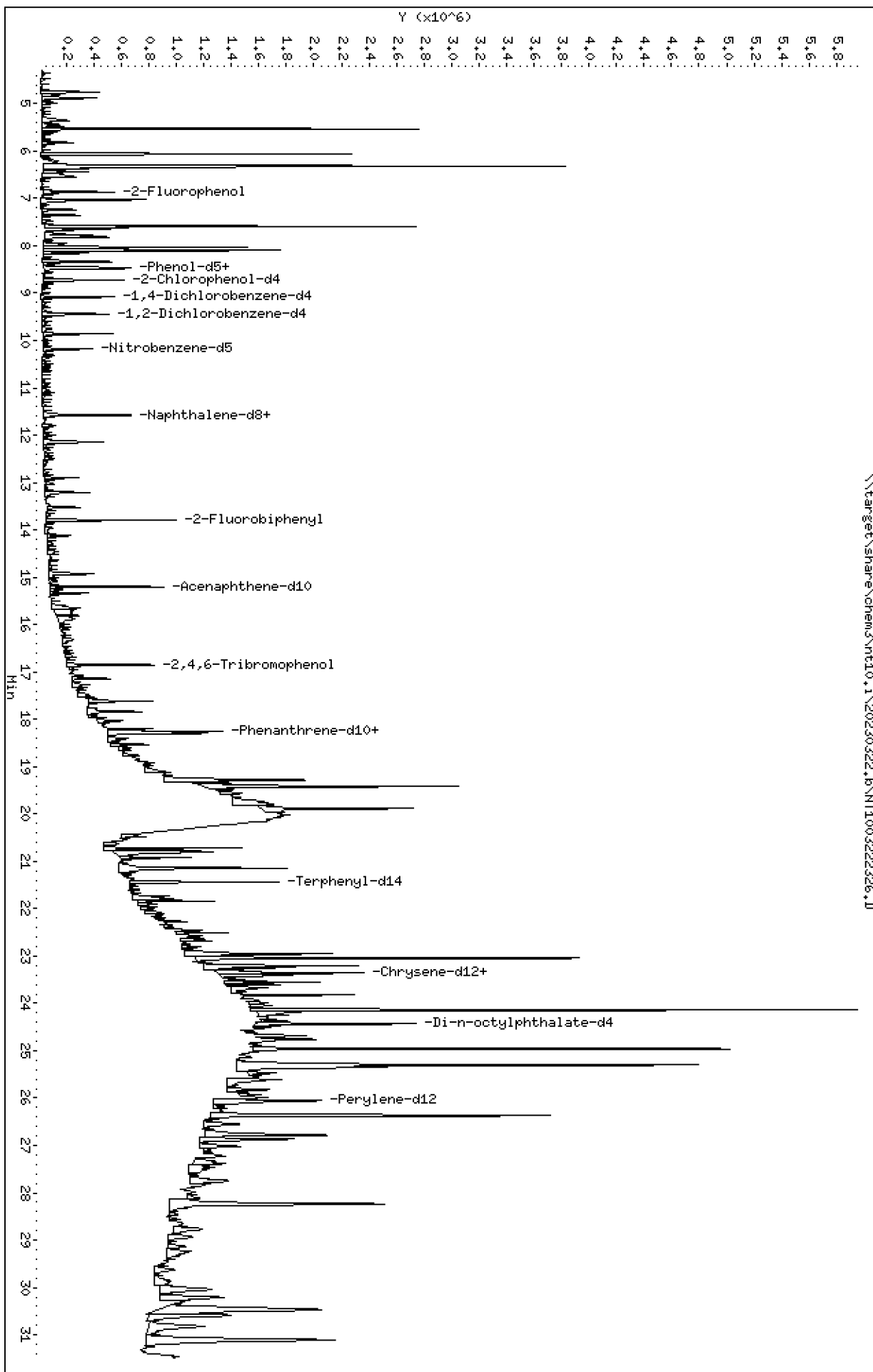
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

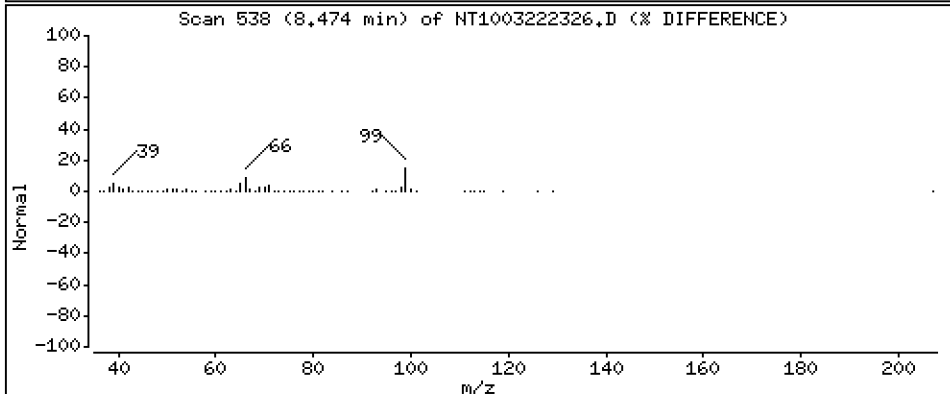
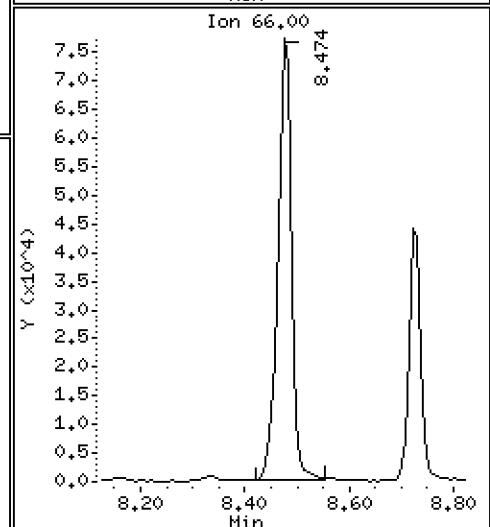
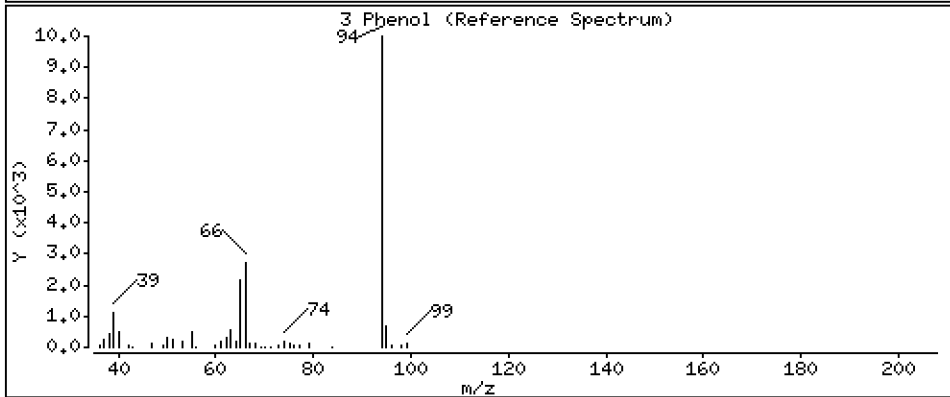
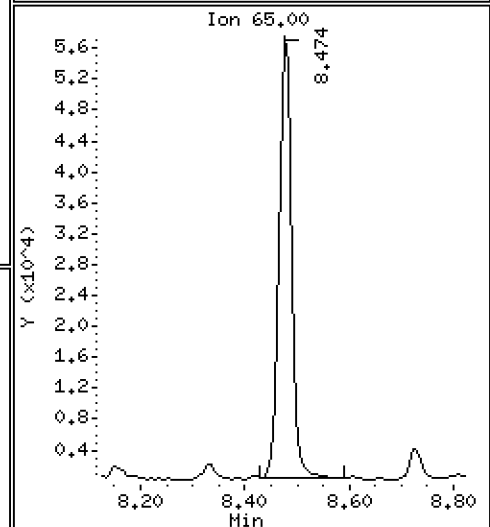
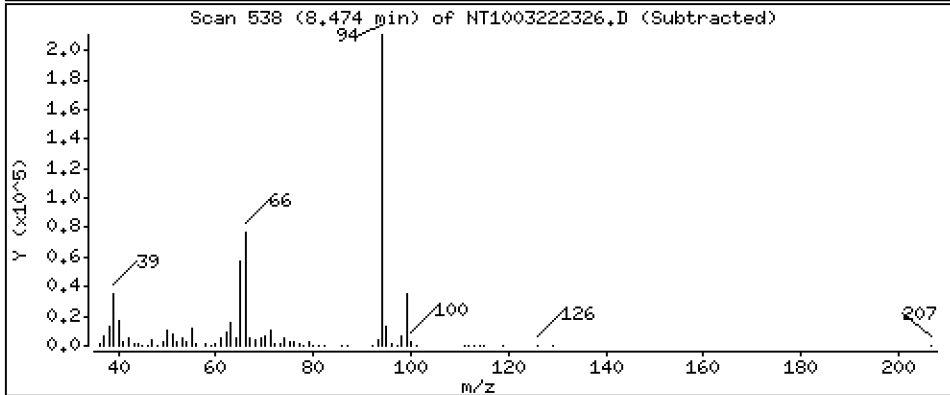
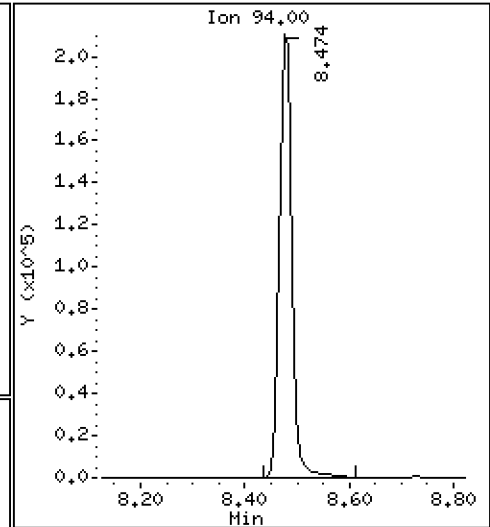
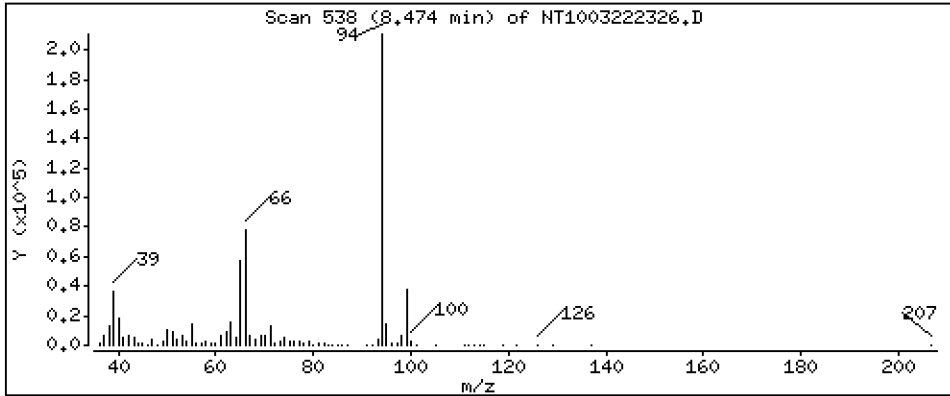
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 5,465 ug/mL





Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

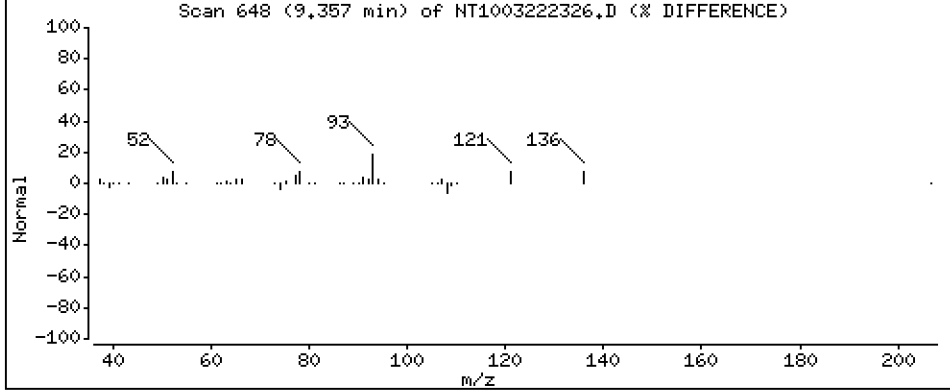
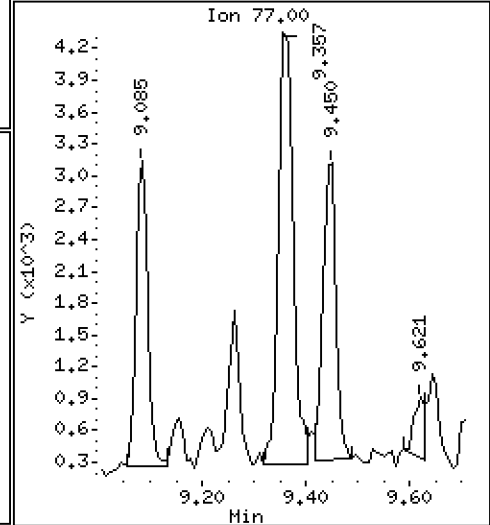
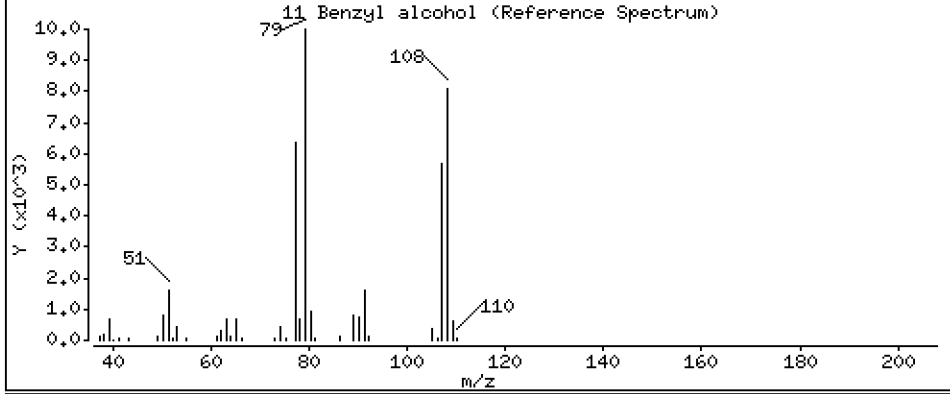
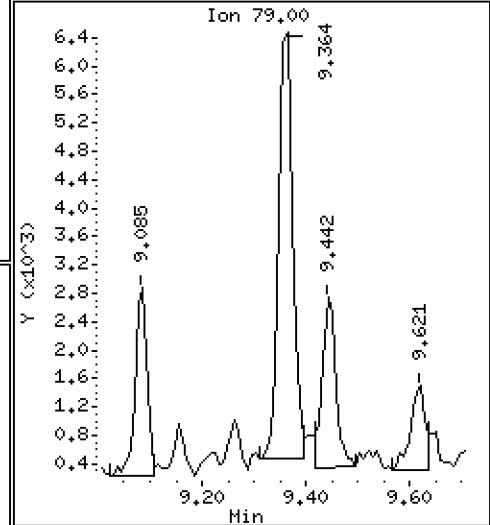
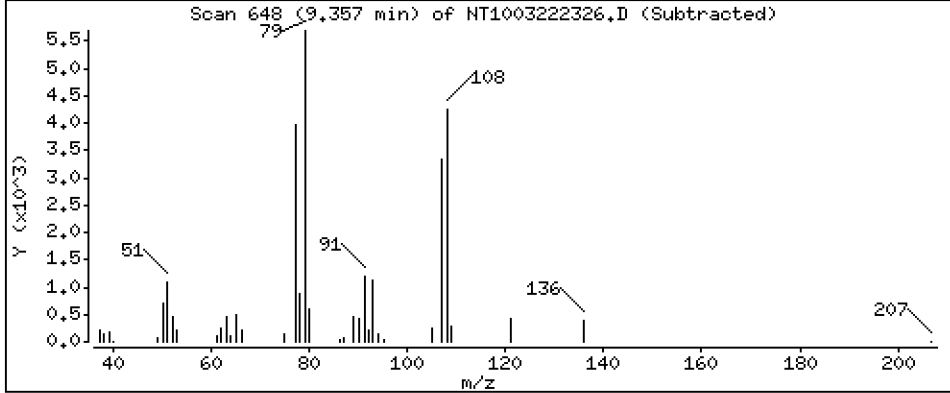
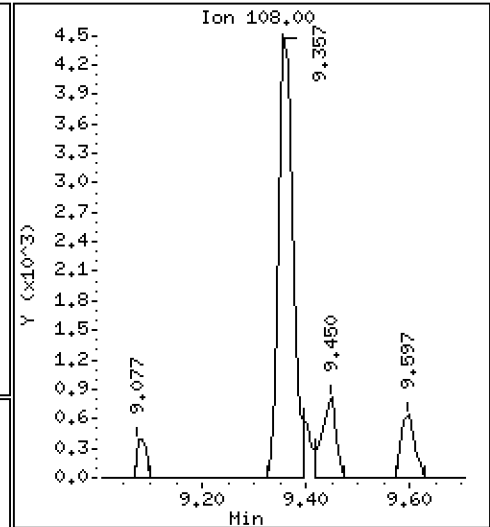
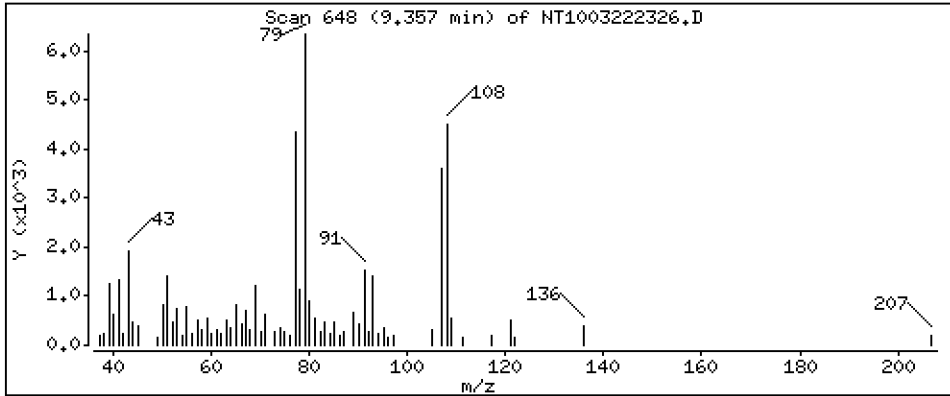
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.2904 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

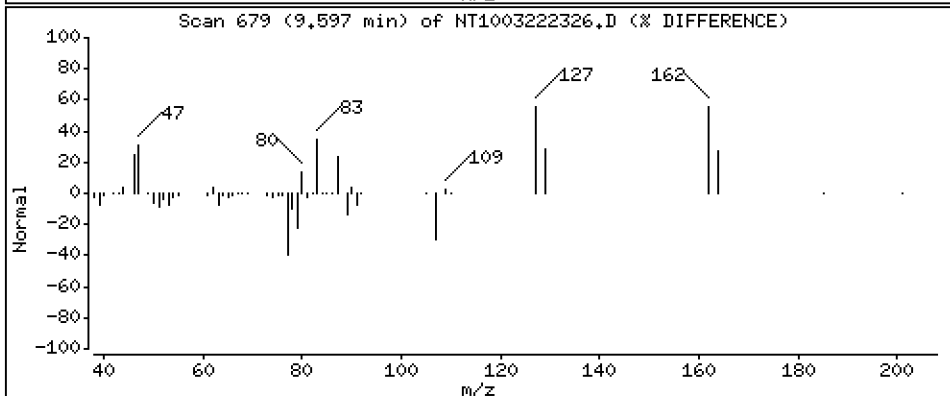
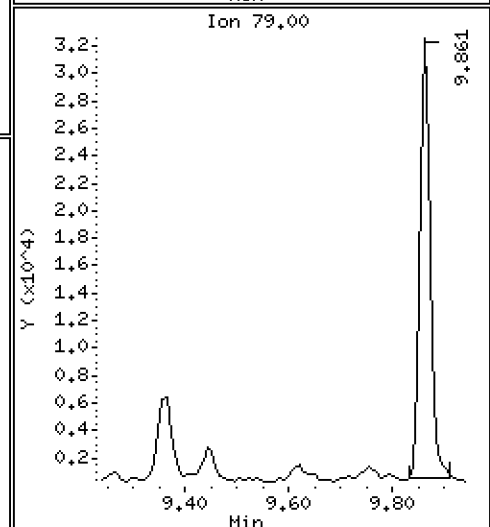
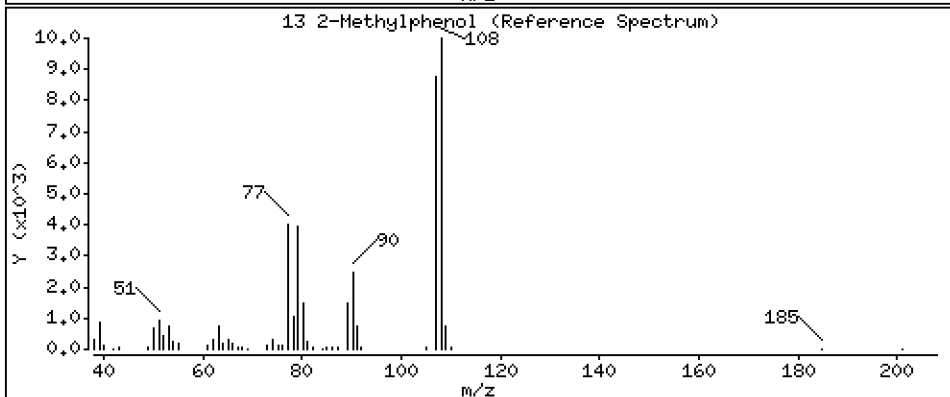
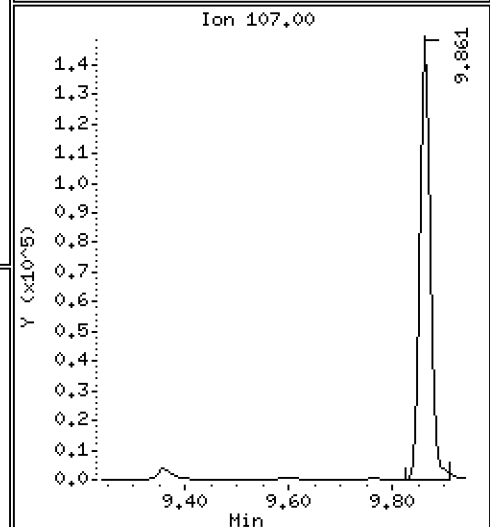
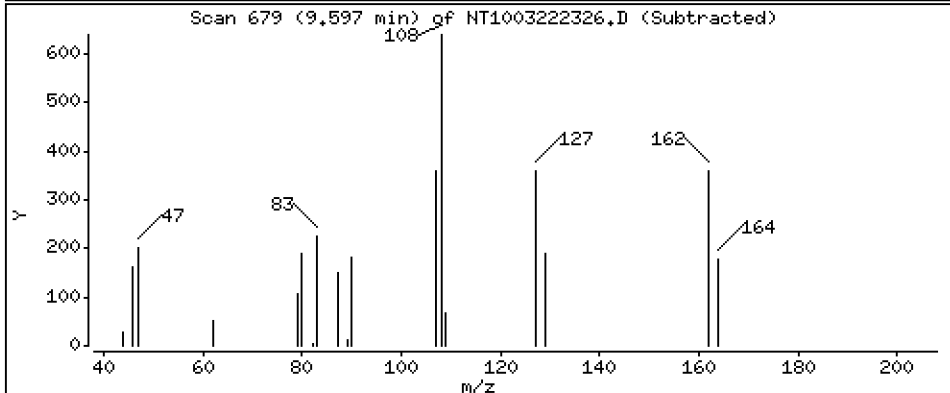
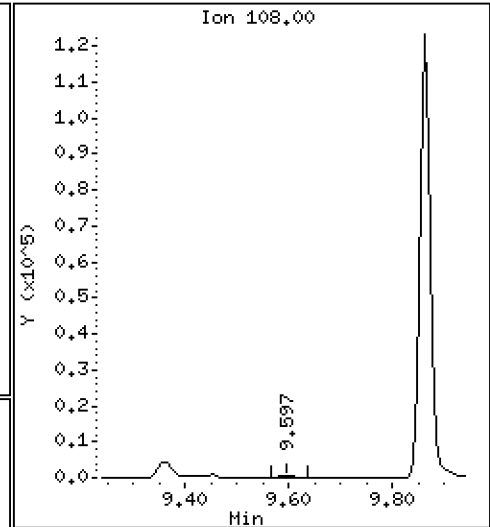
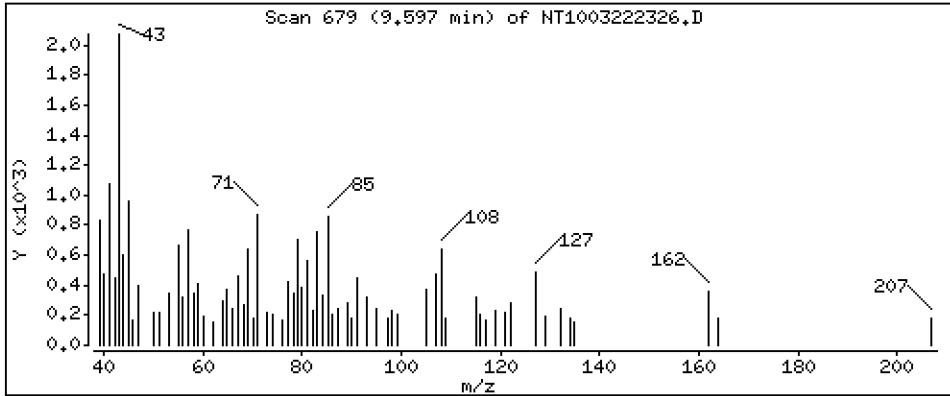
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 0,02435 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

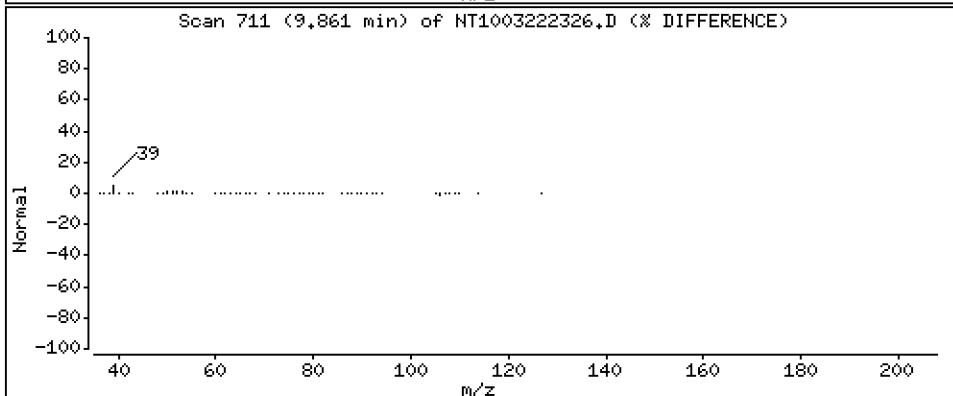
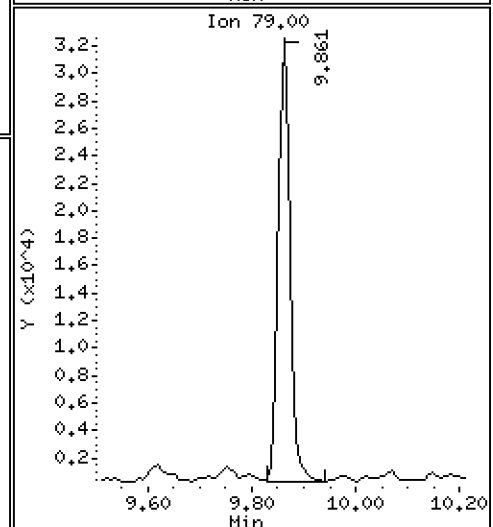
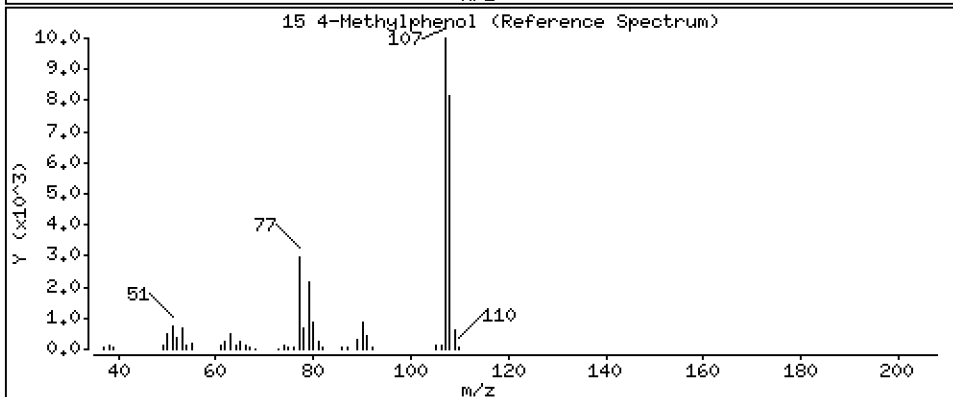
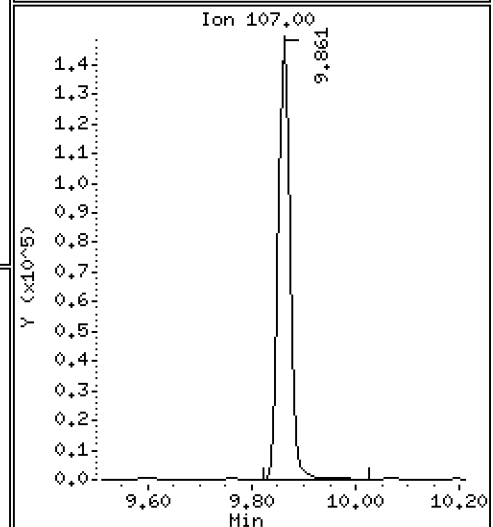
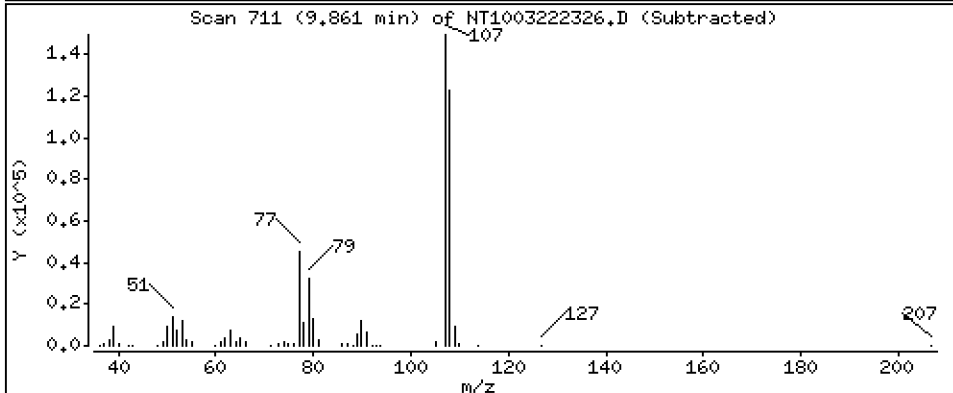
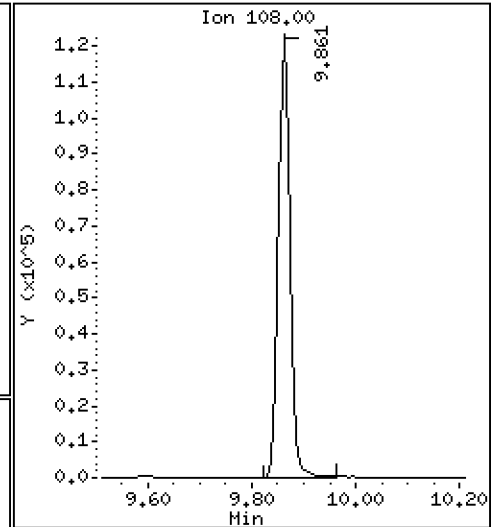
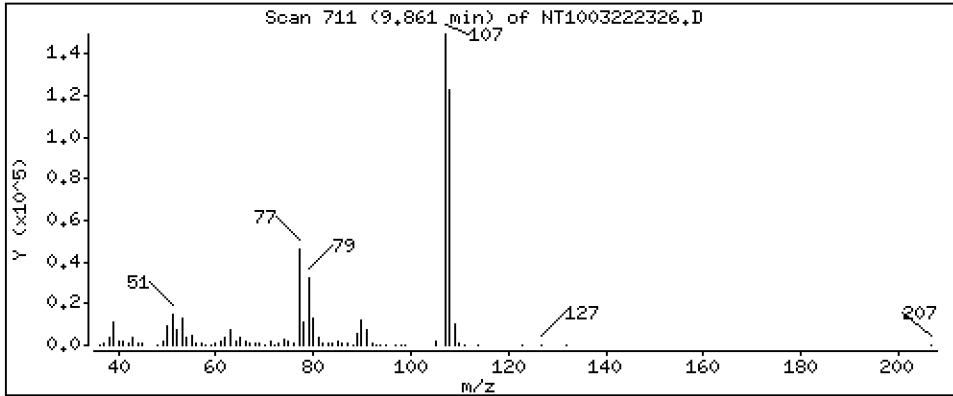
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 3,835 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

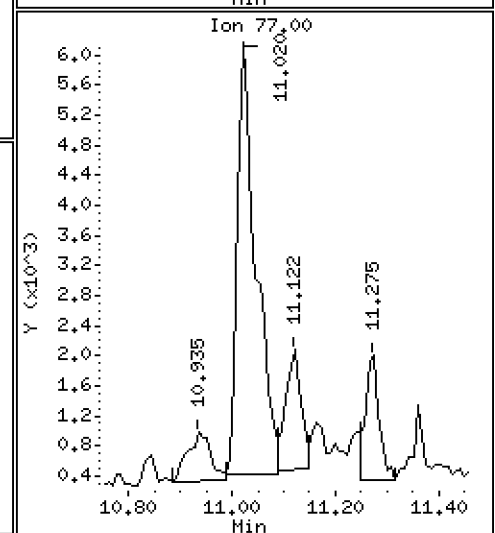
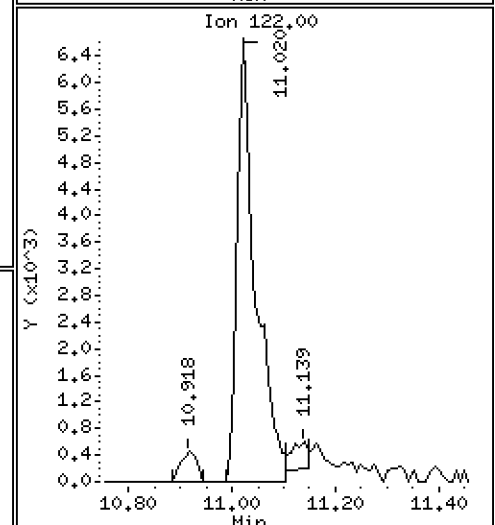
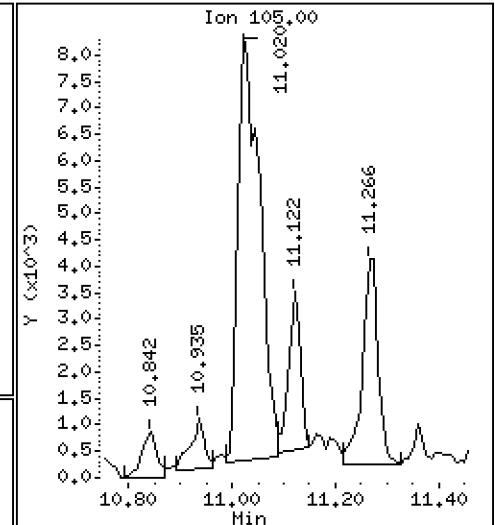
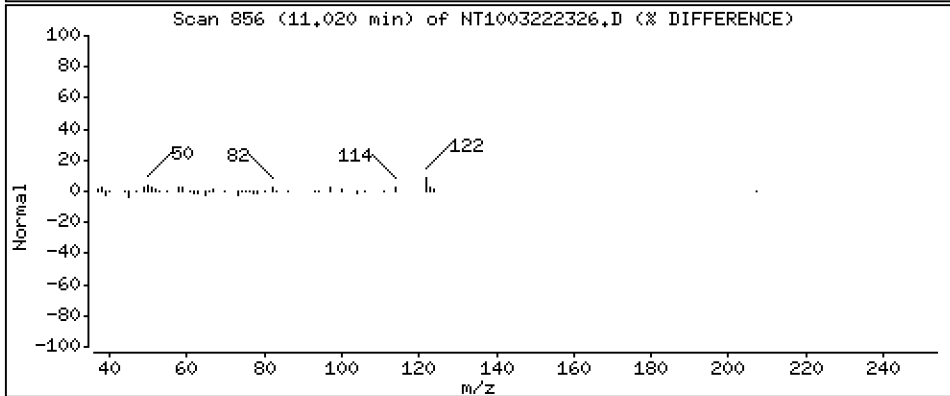
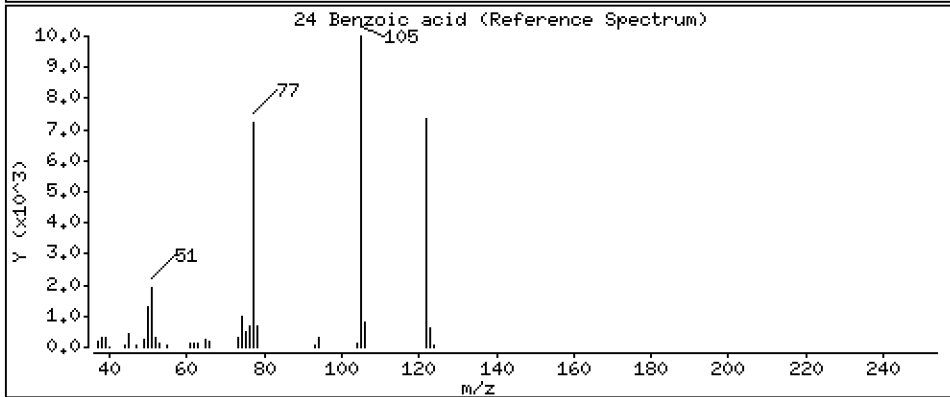
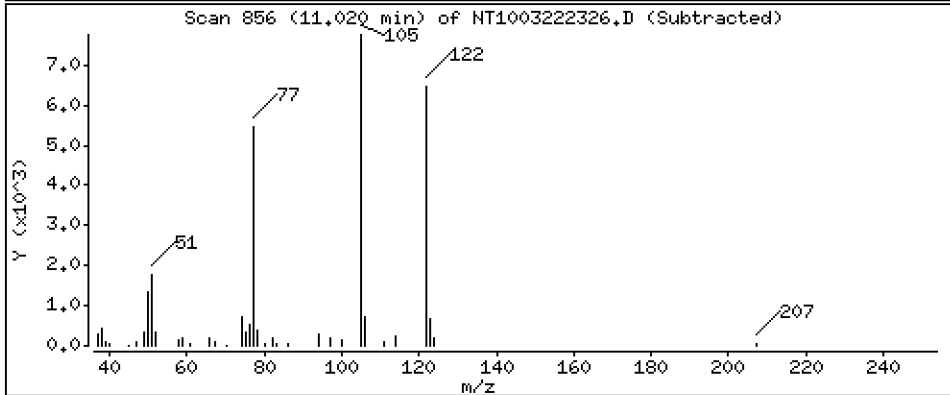
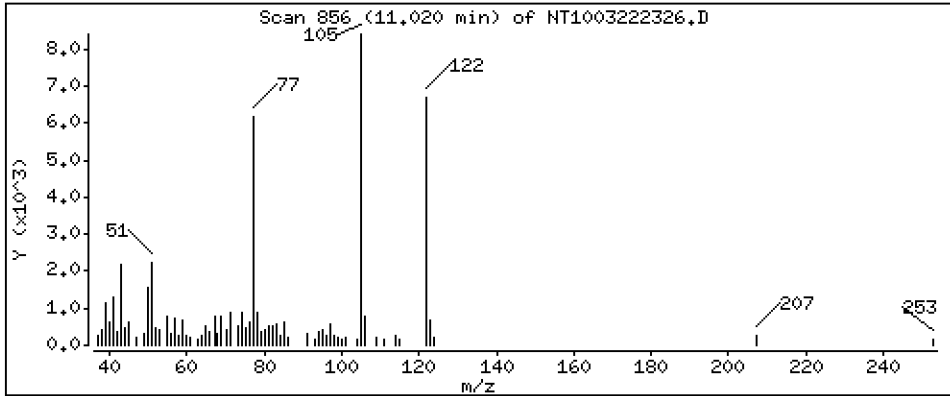
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,8637 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

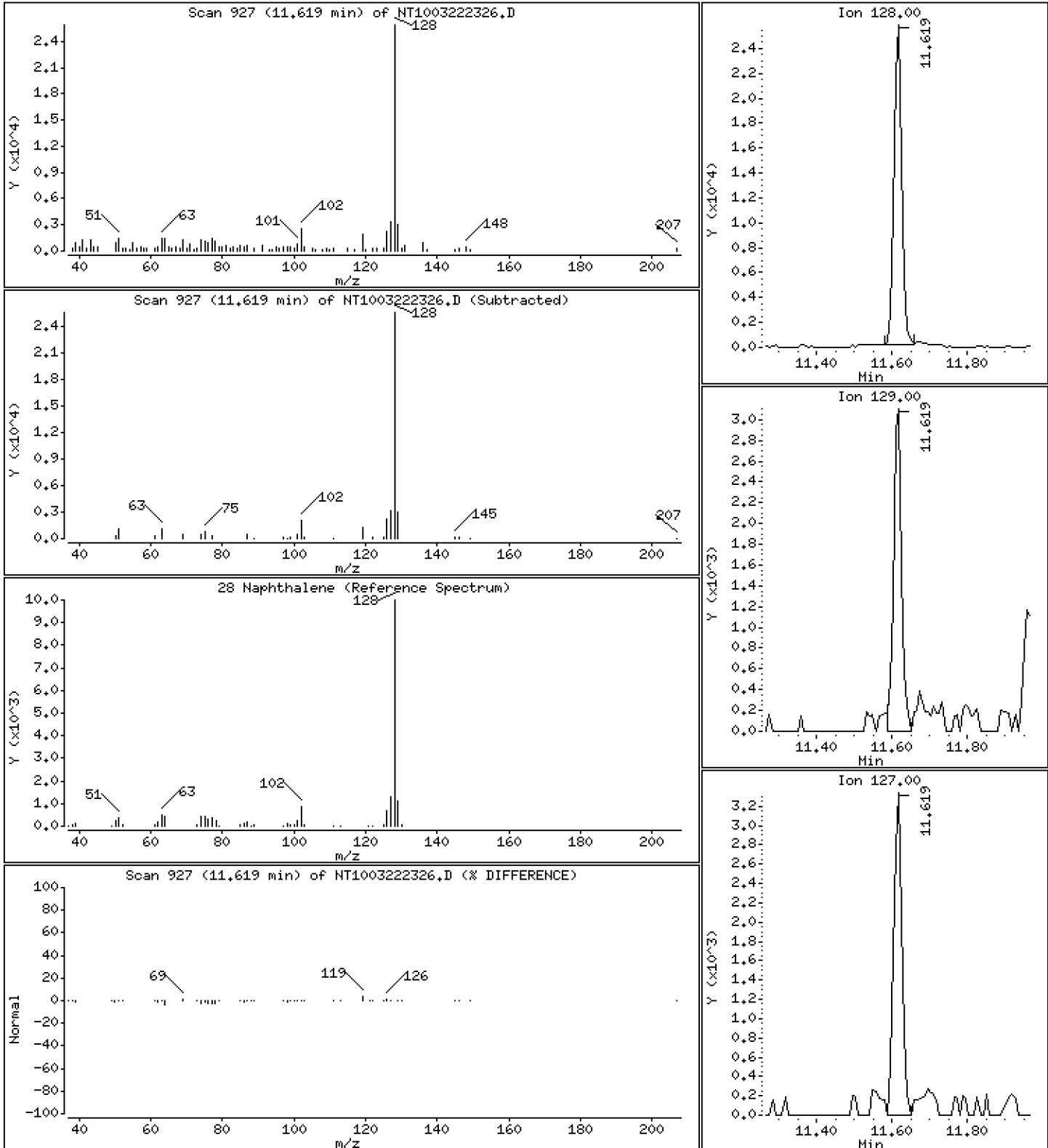
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 0.2667 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

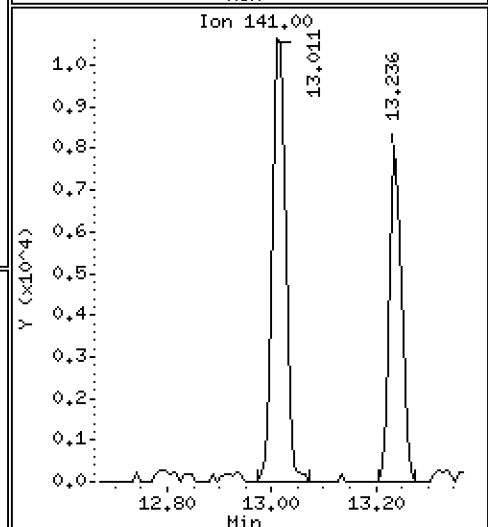
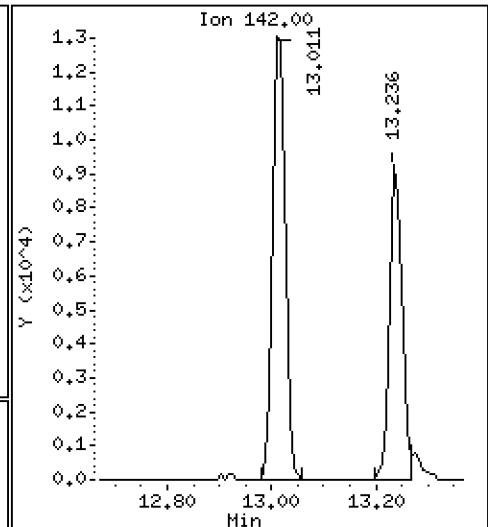
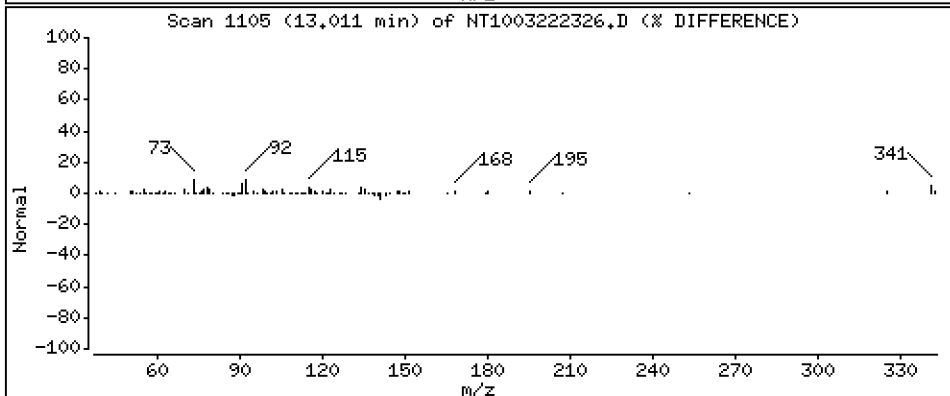
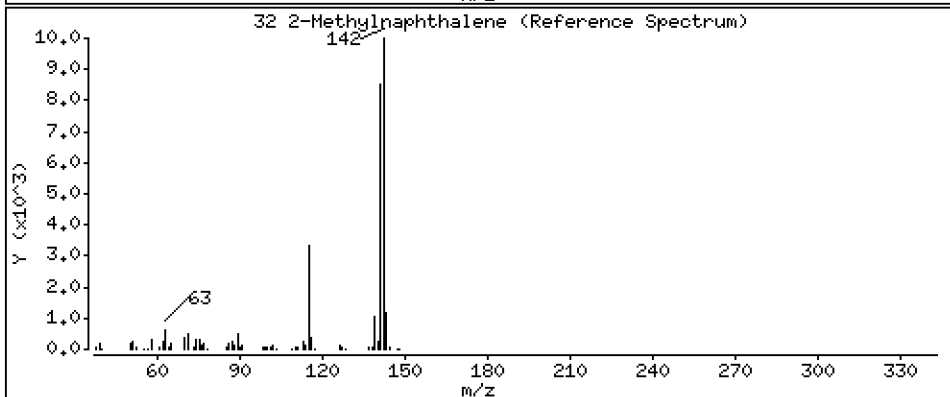
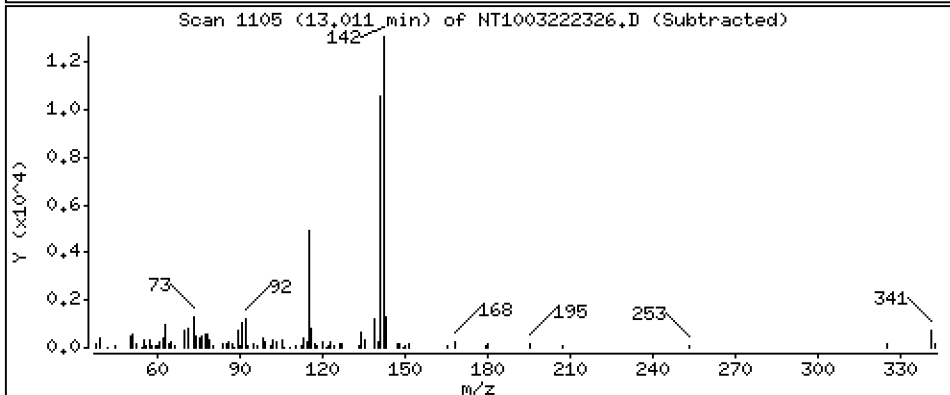
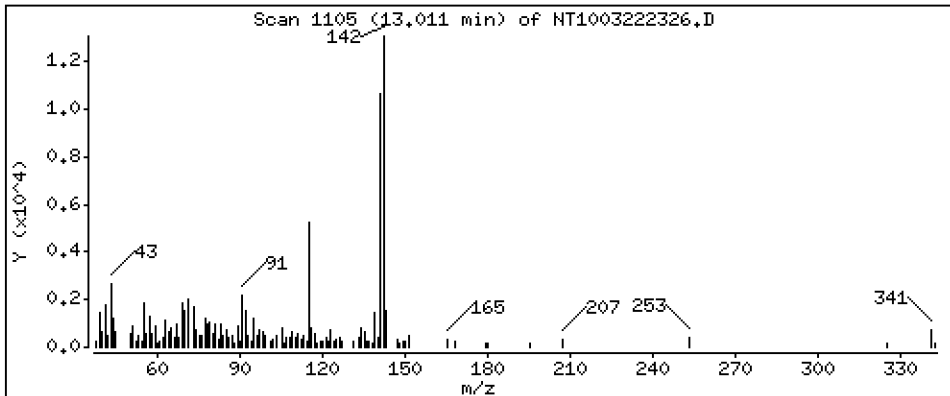
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,2068 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

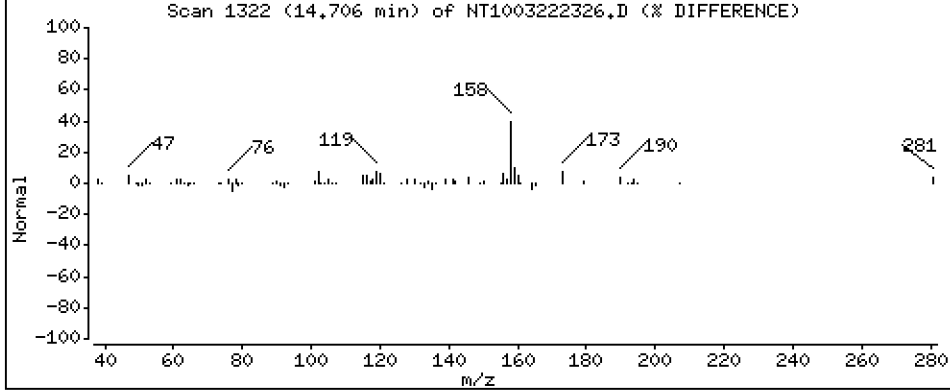
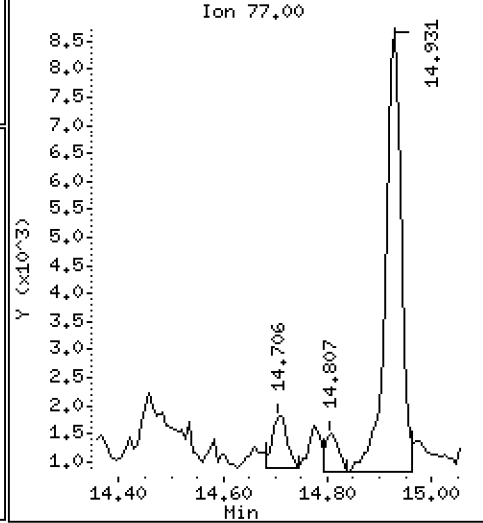
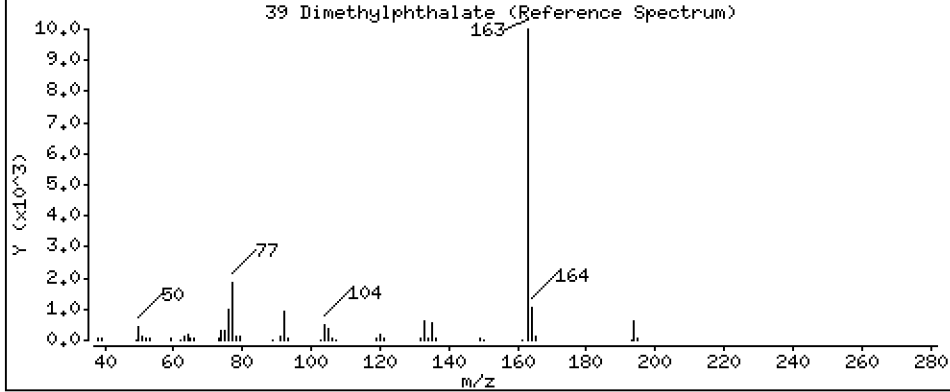
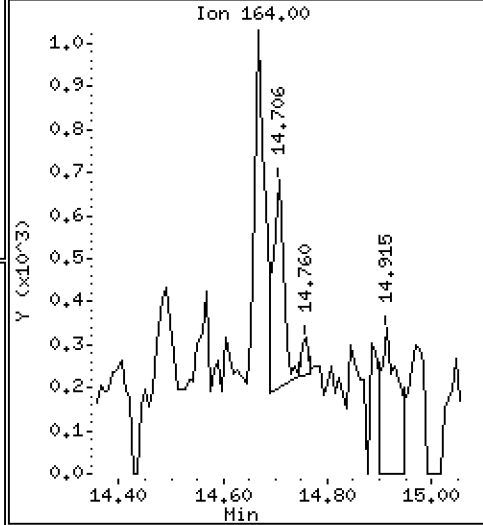
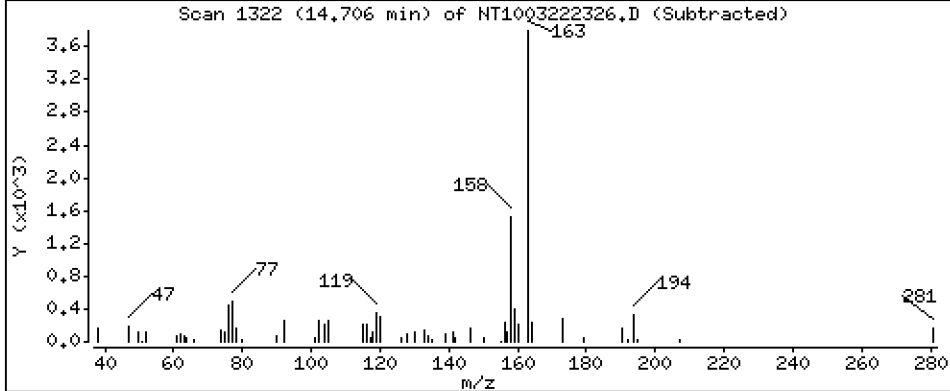
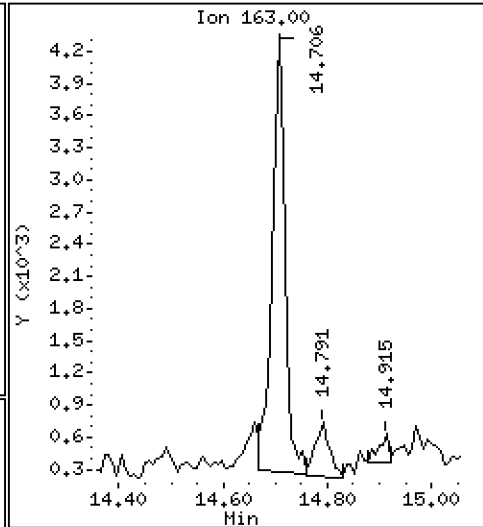
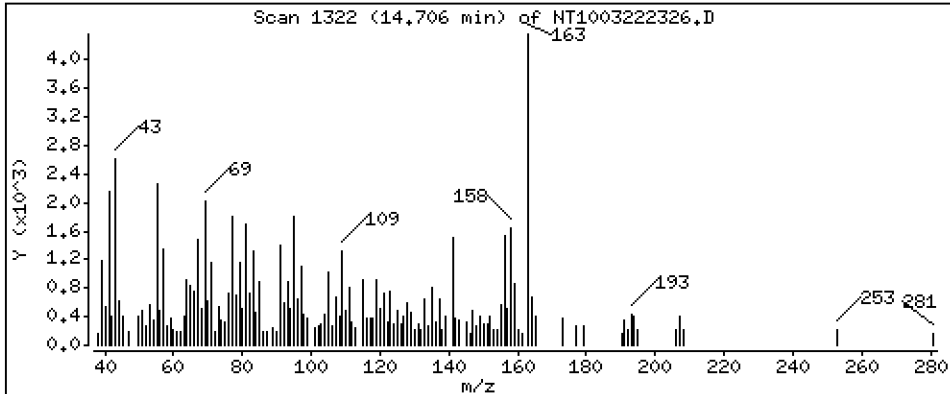
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

39 Dimethylphthalate

Concentration: 0.06702 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

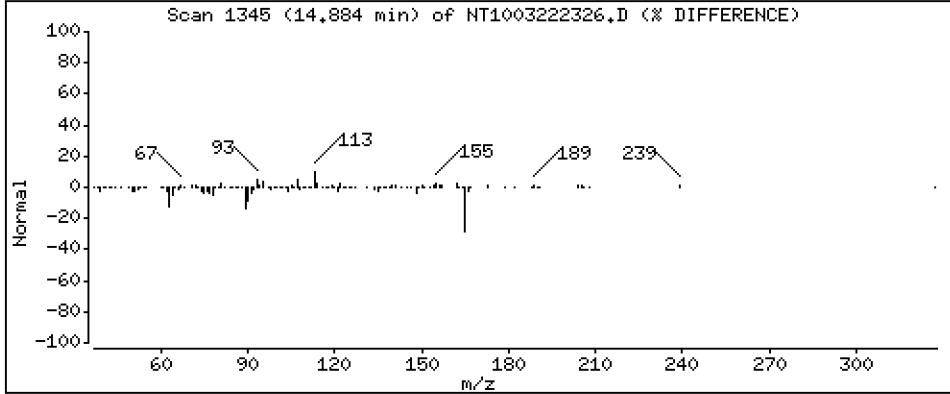
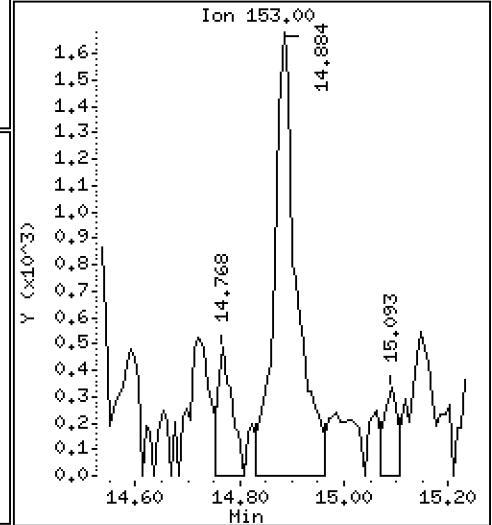
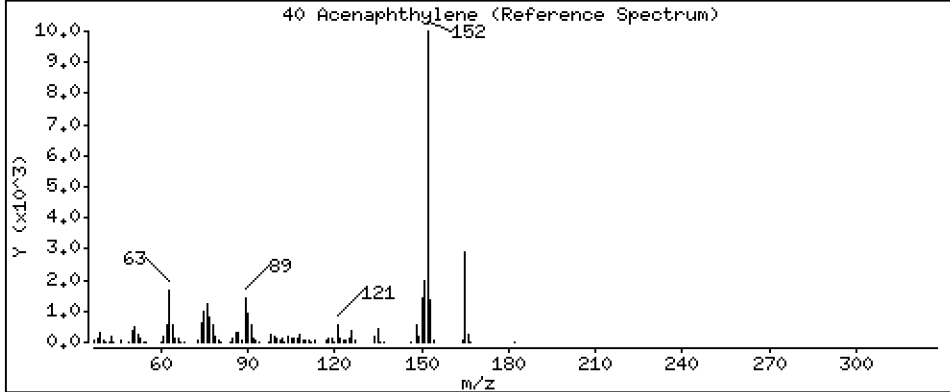
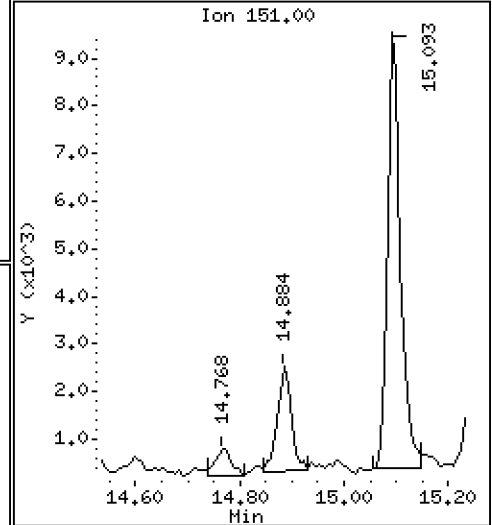
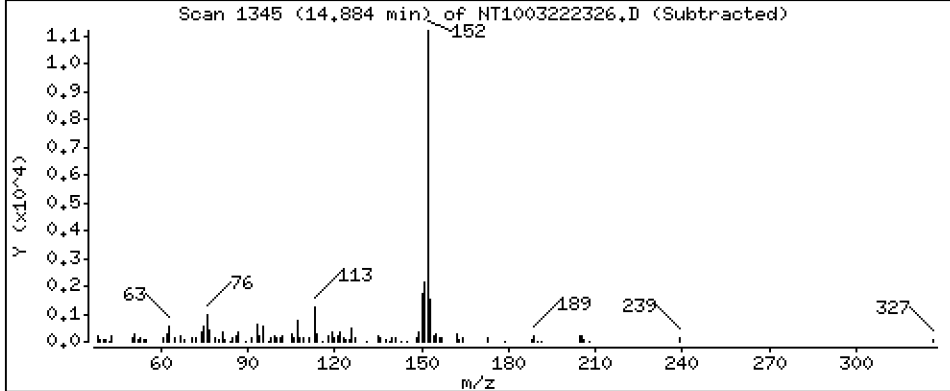
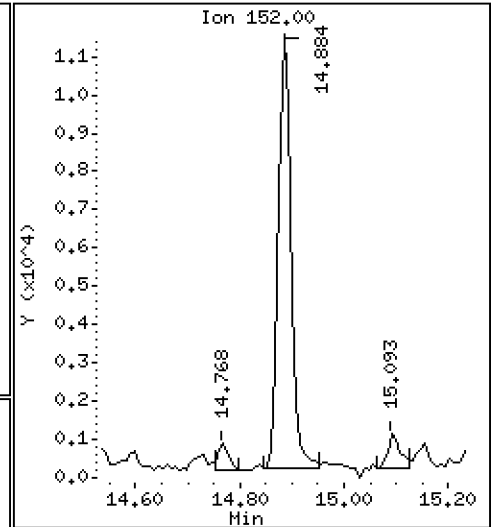
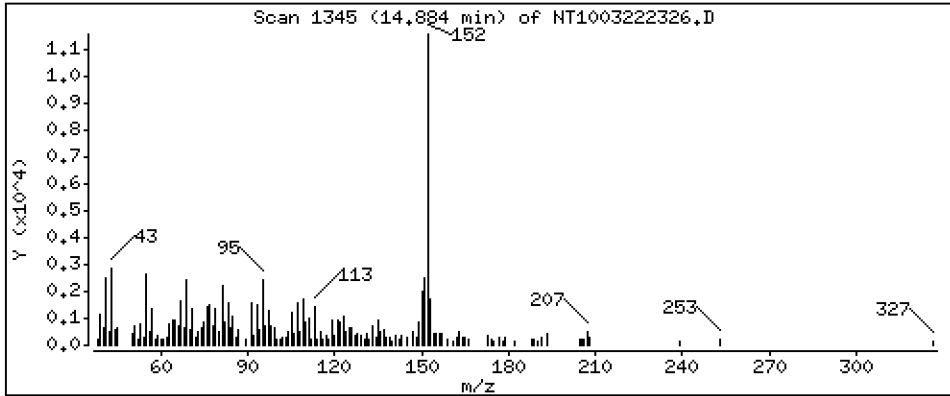
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,1193 ug/mL





Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

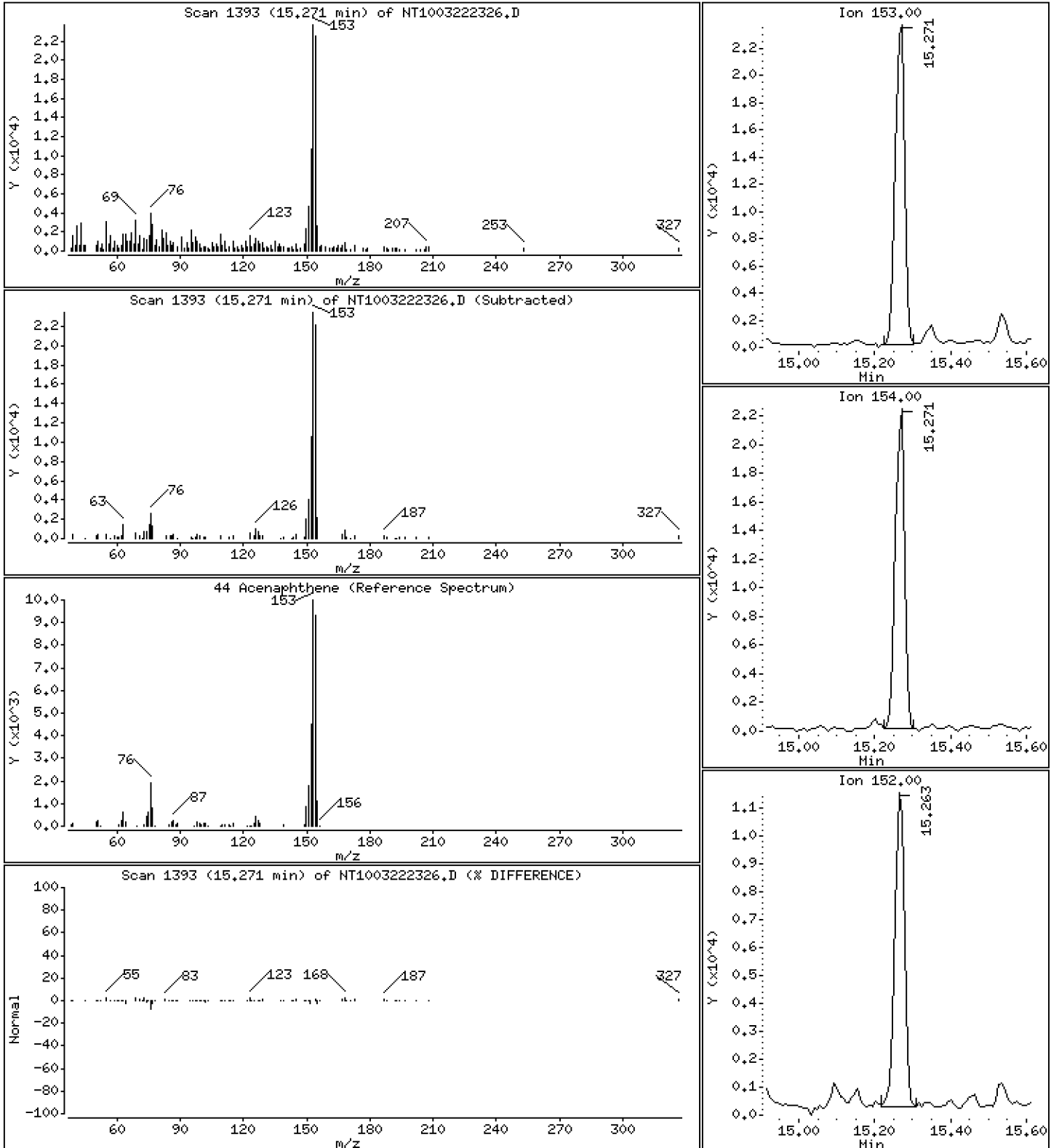
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,4129 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

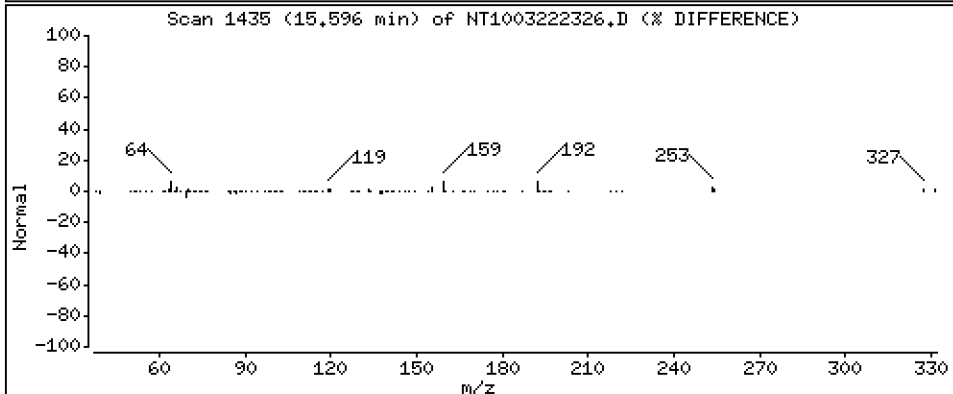
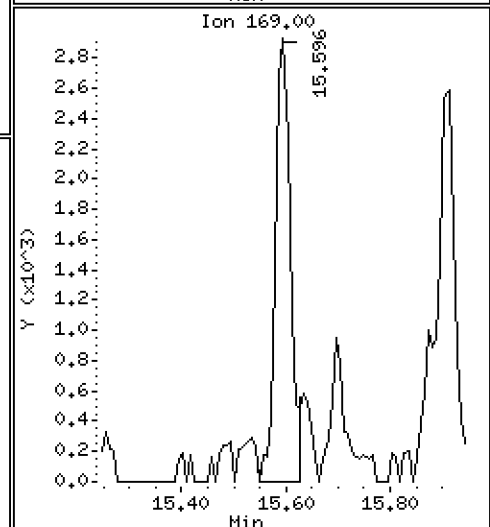
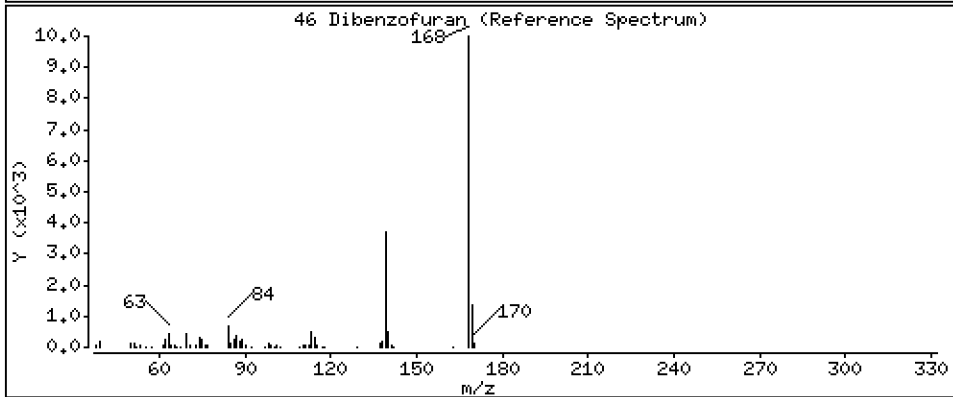
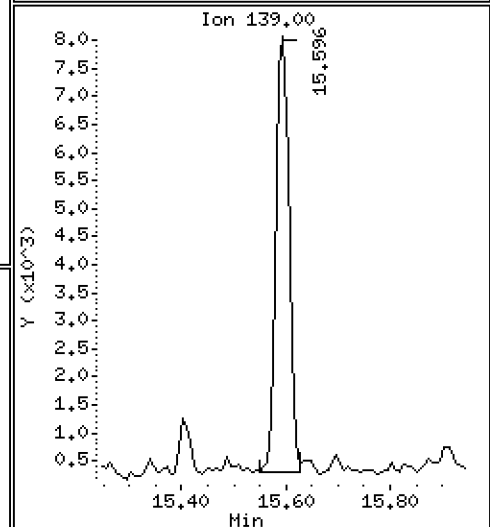
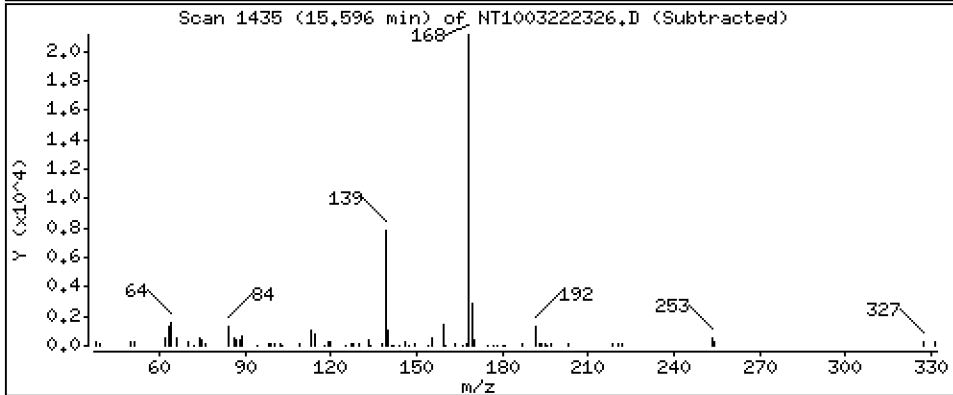
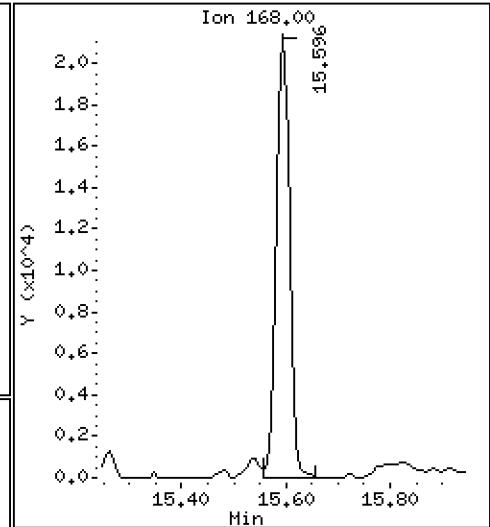
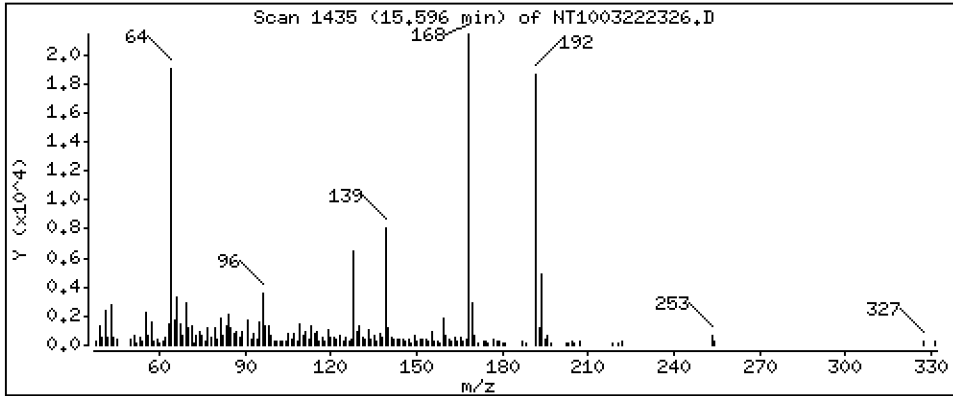
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,2587 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

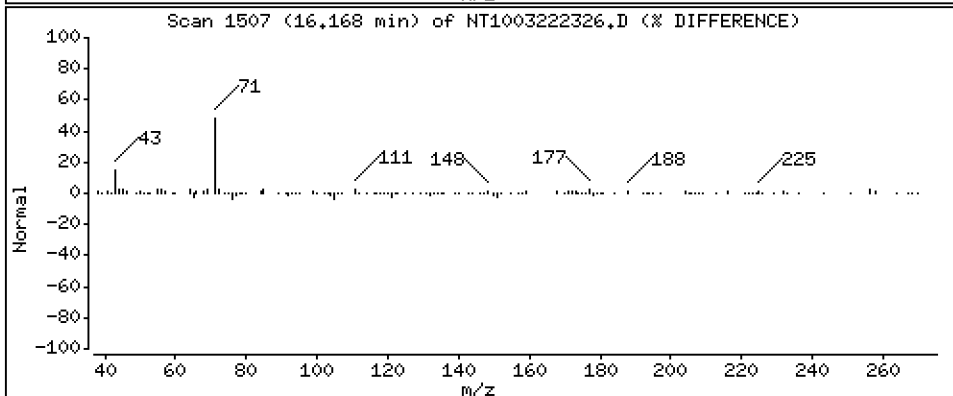
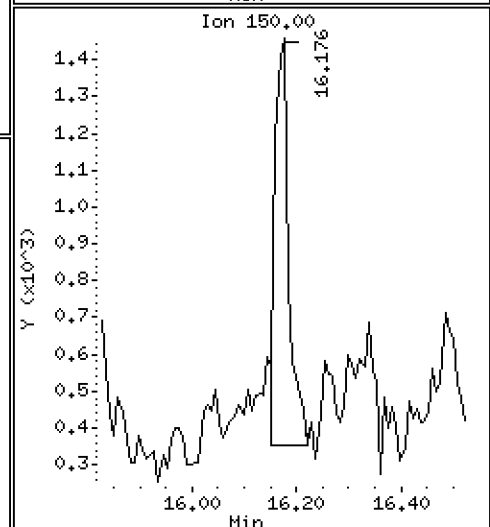
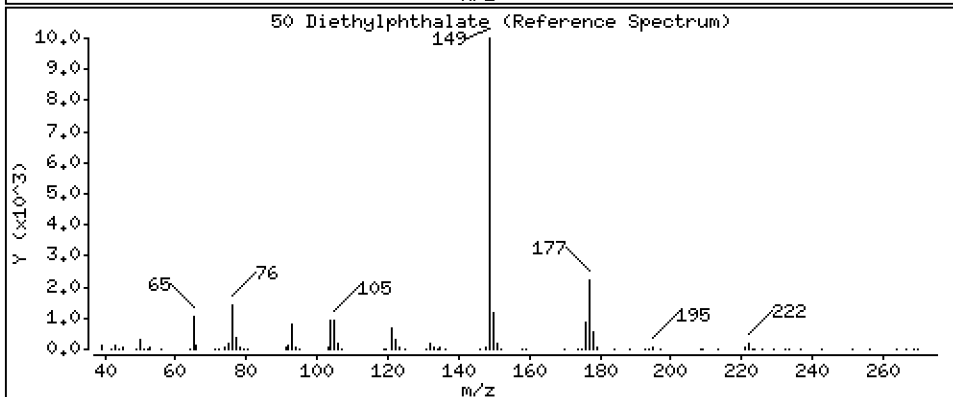
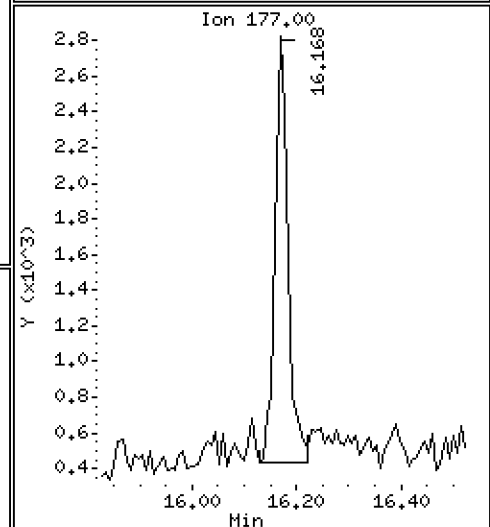
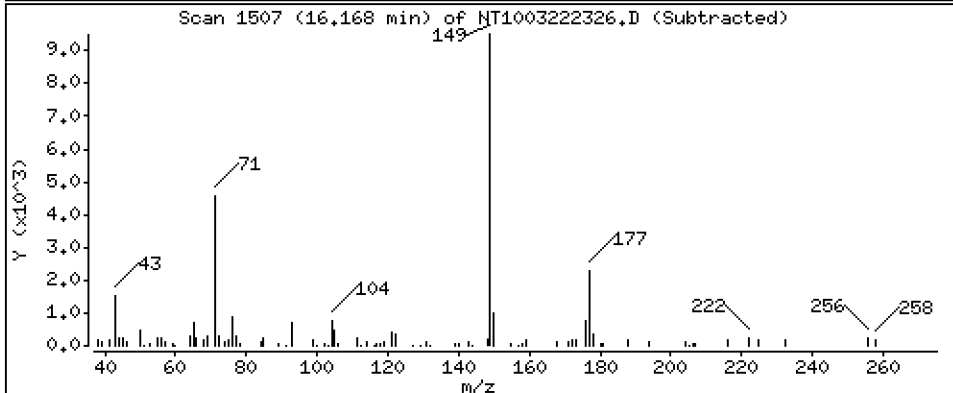
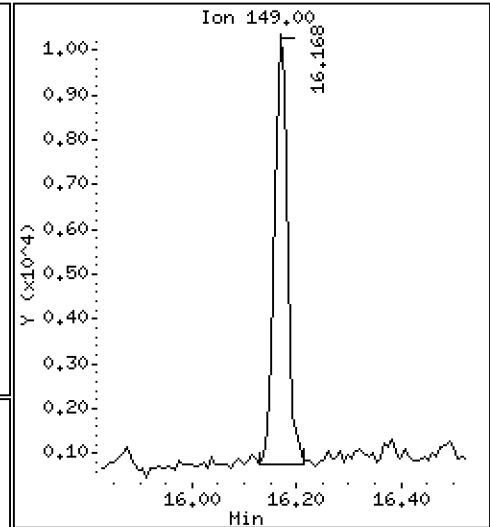
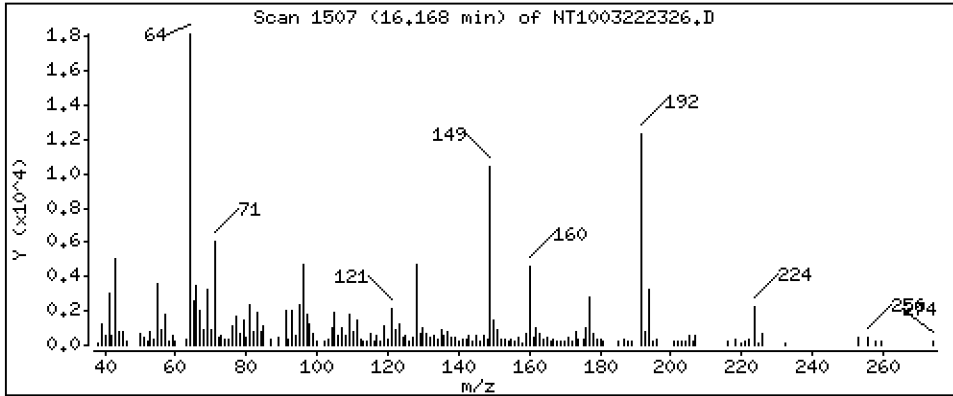
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,1931 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

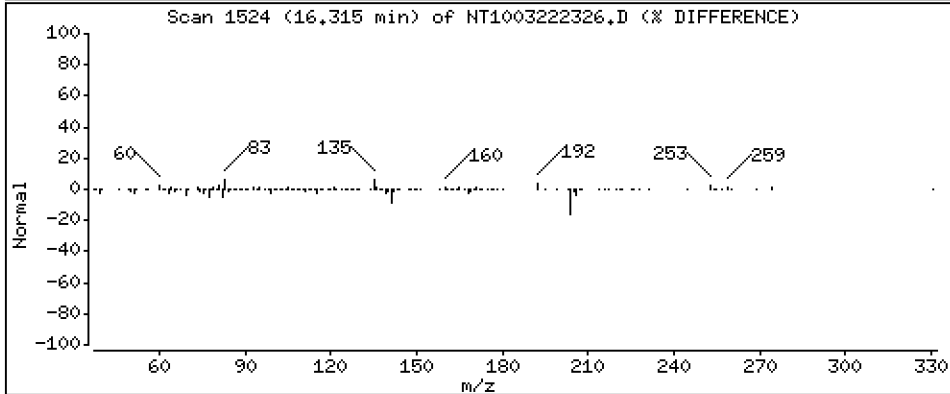
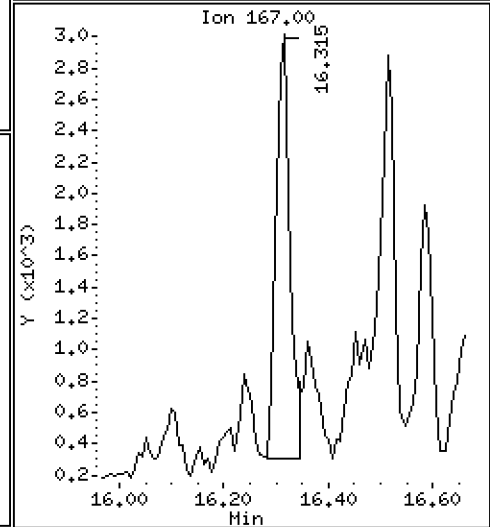
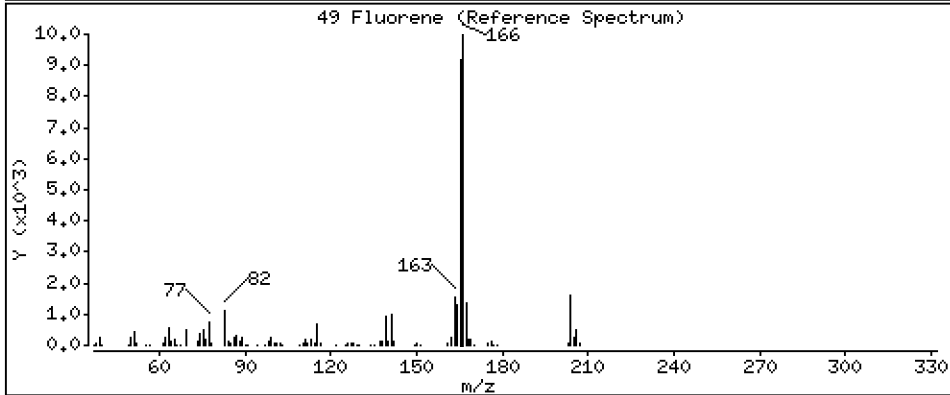
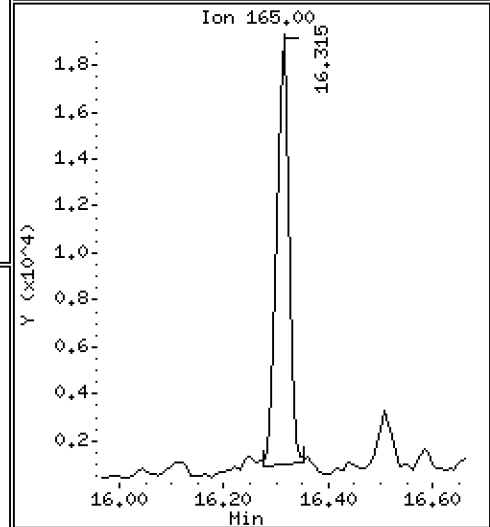
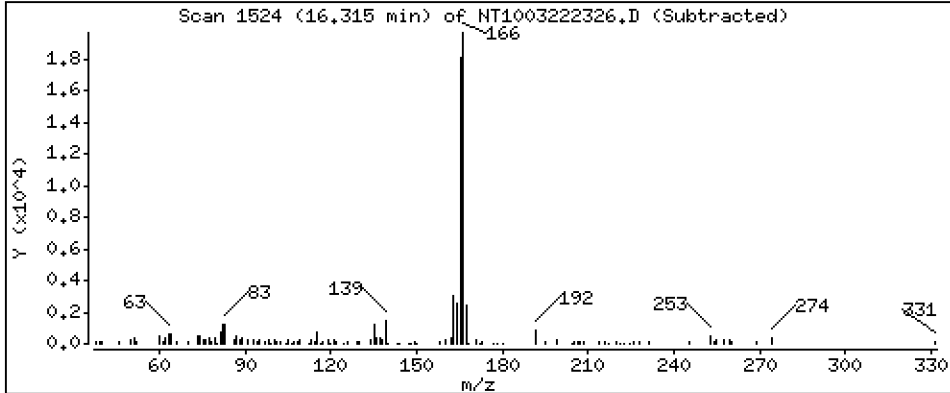
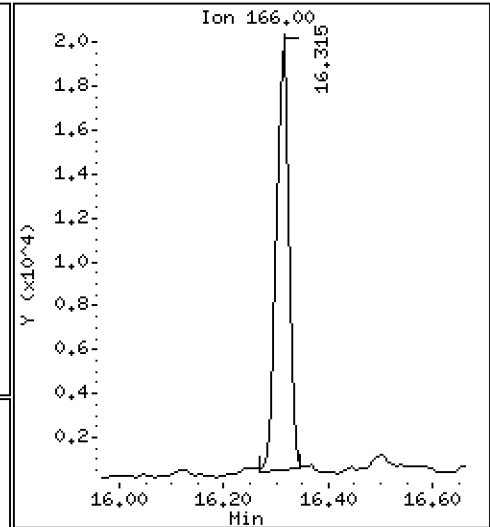
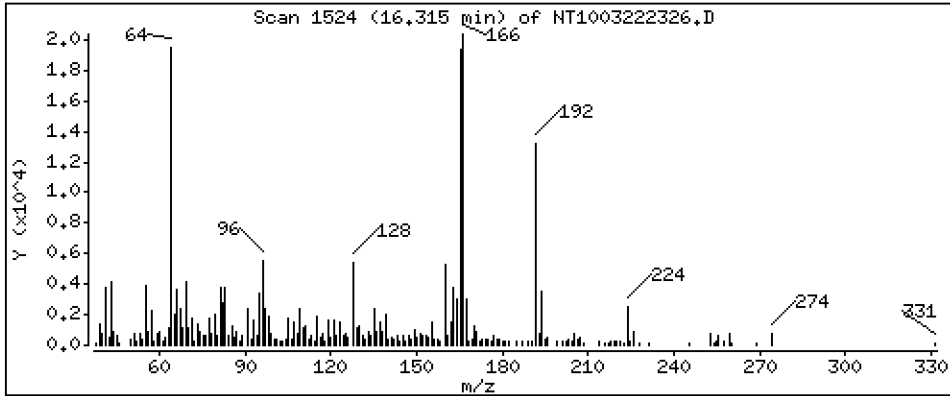
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 0.2864 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

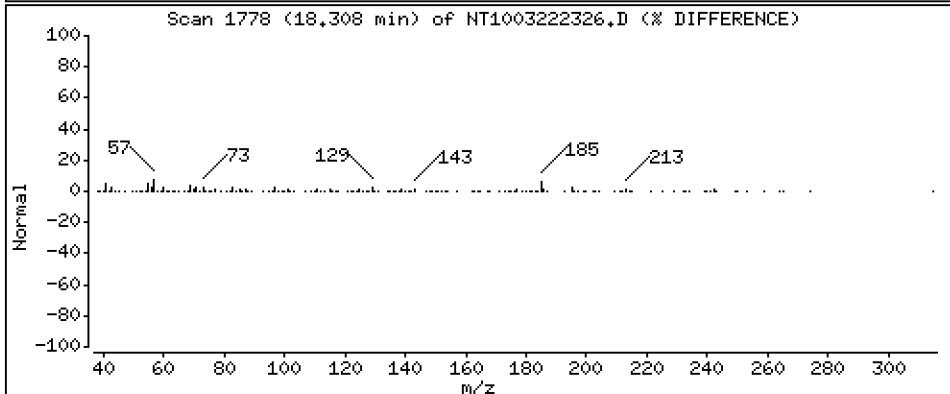
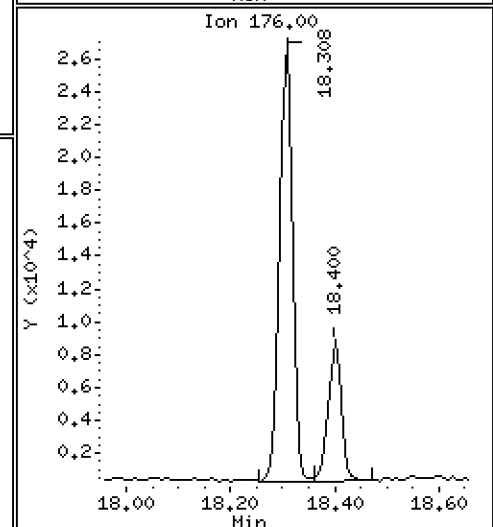
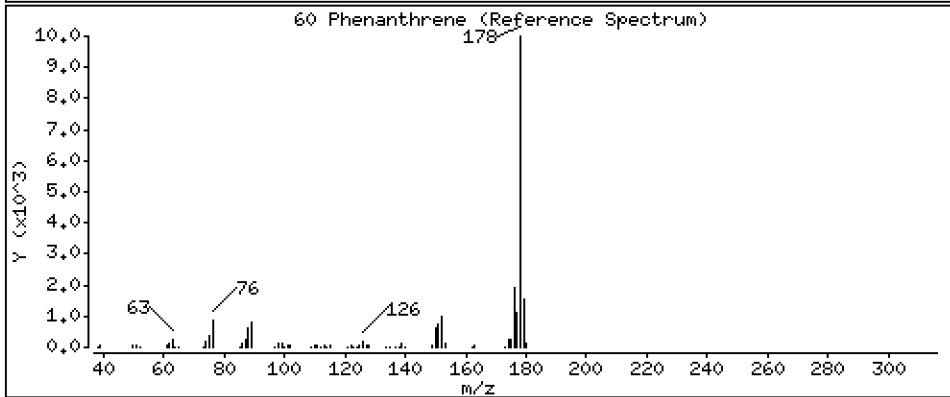
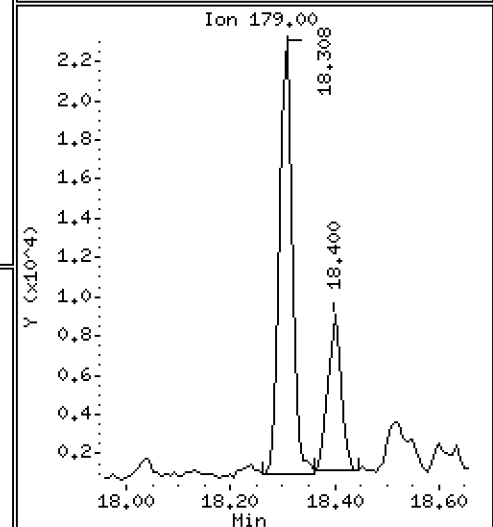
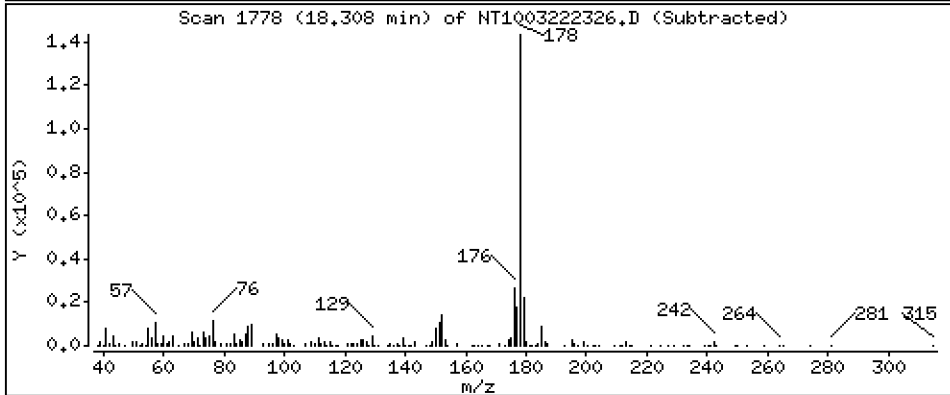
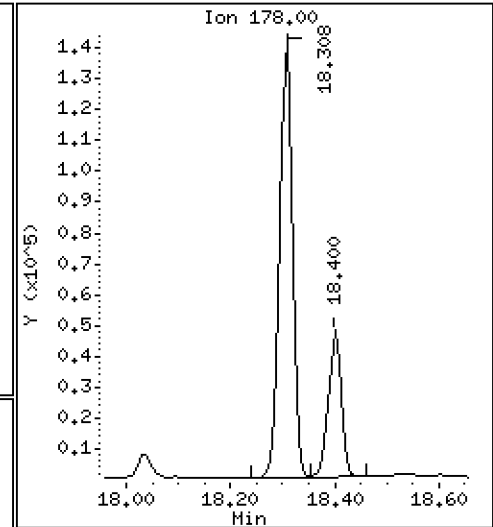
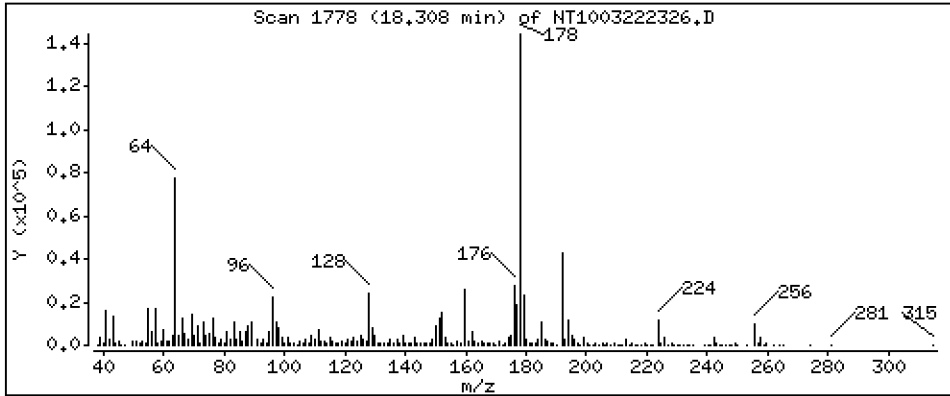
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 1,456 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

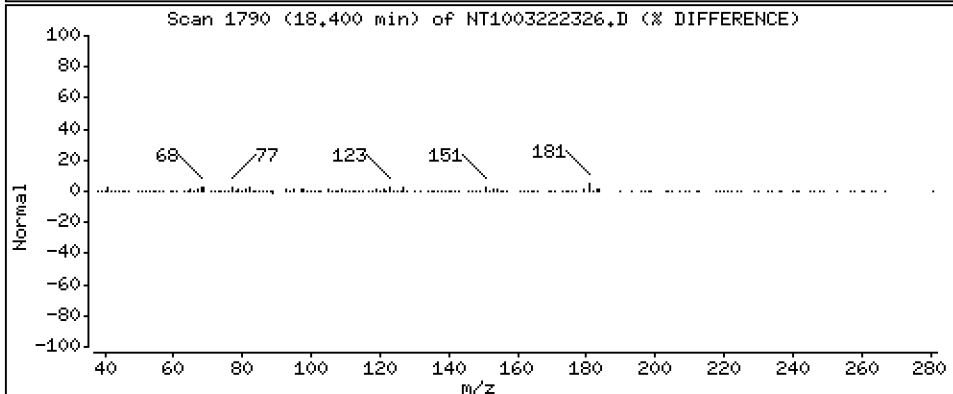
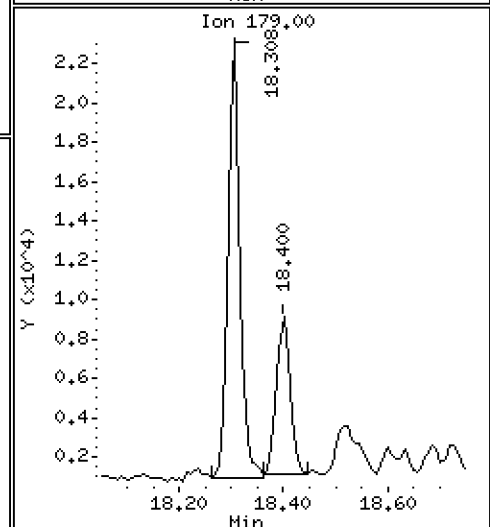
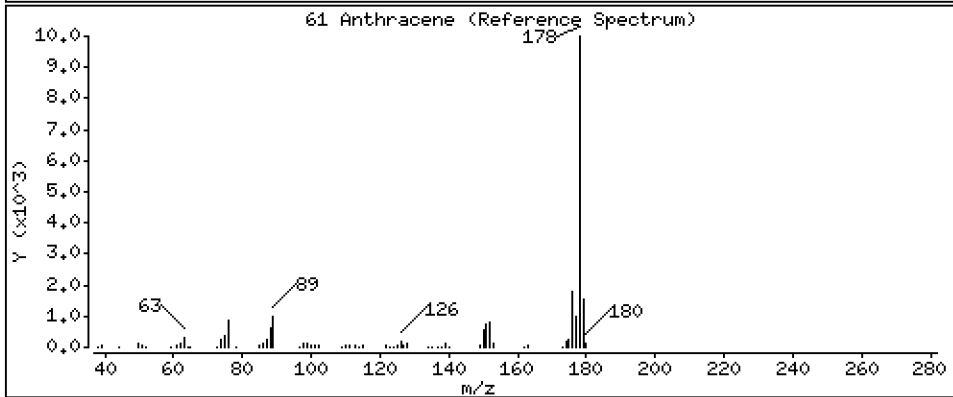
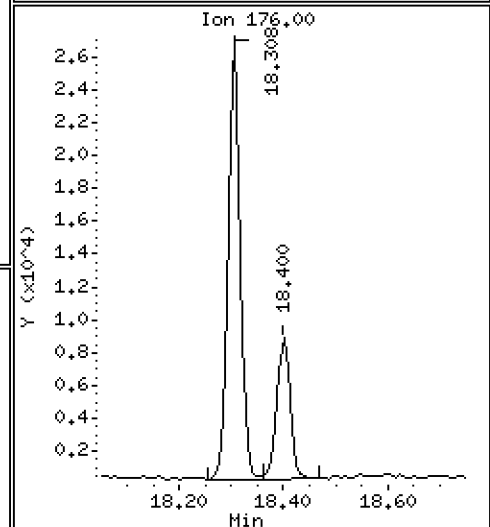
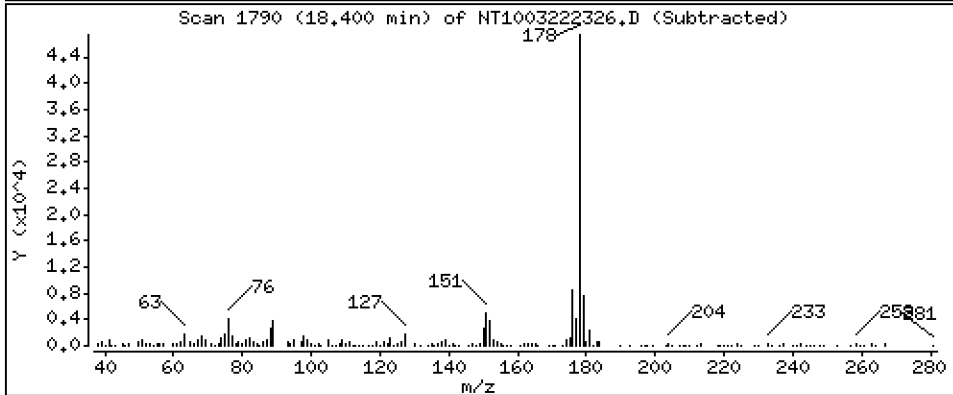
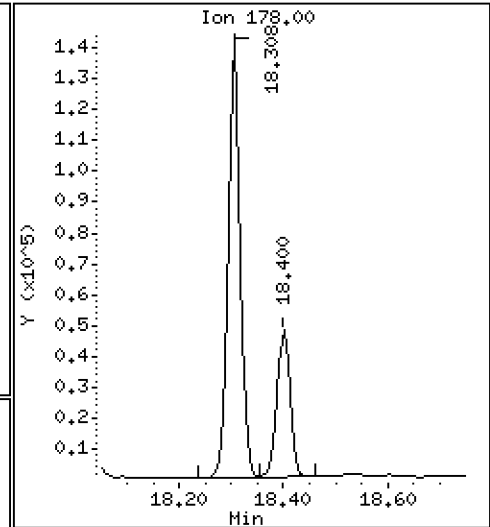
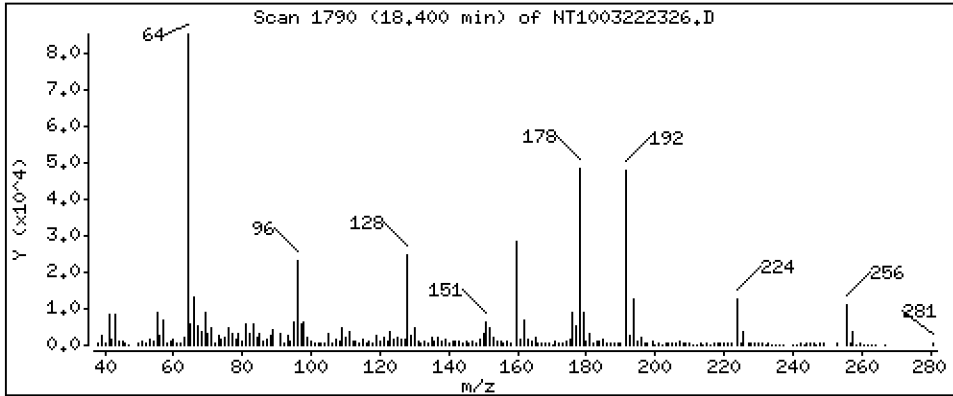
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,5337 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

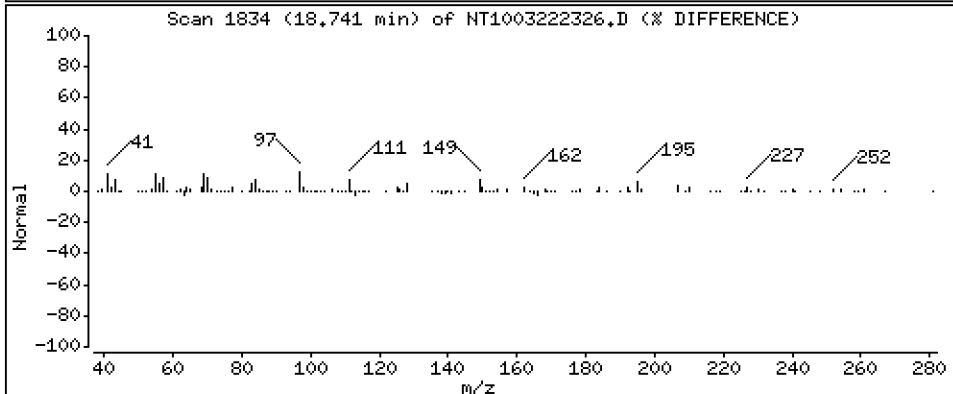
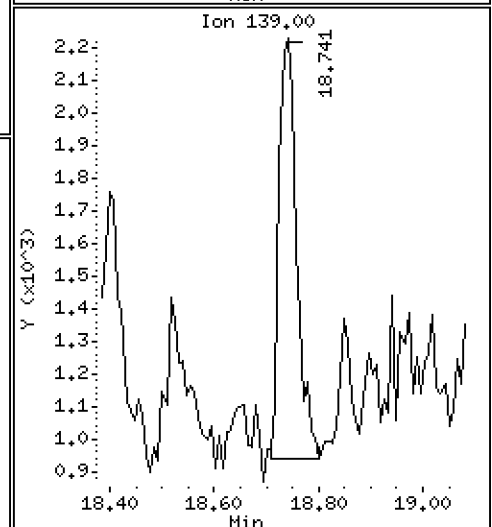
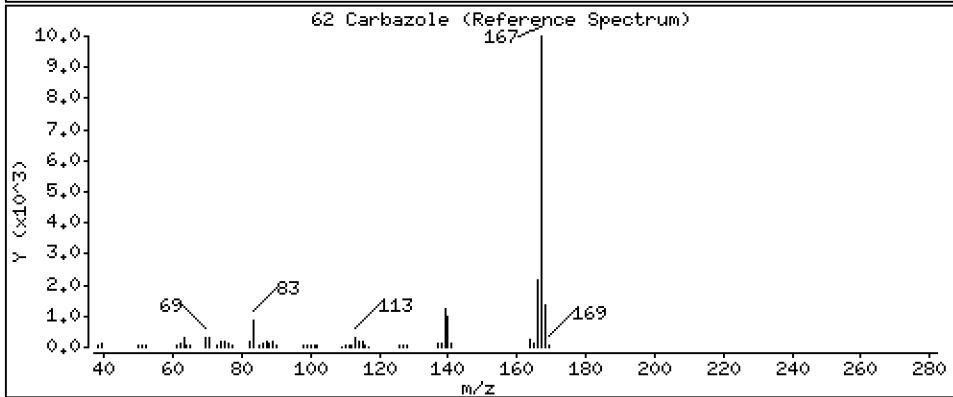
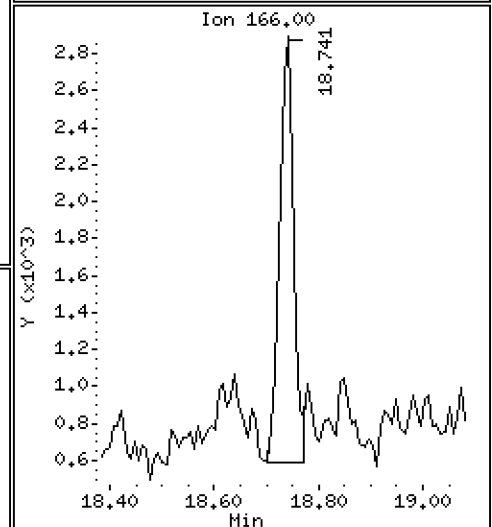
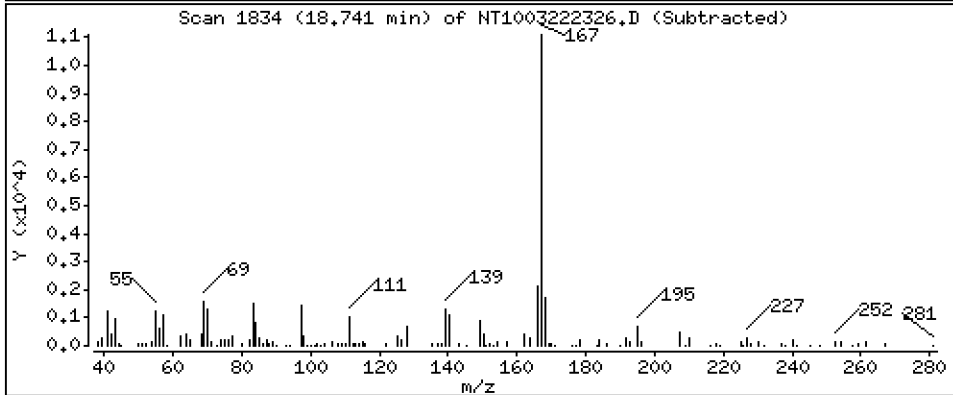
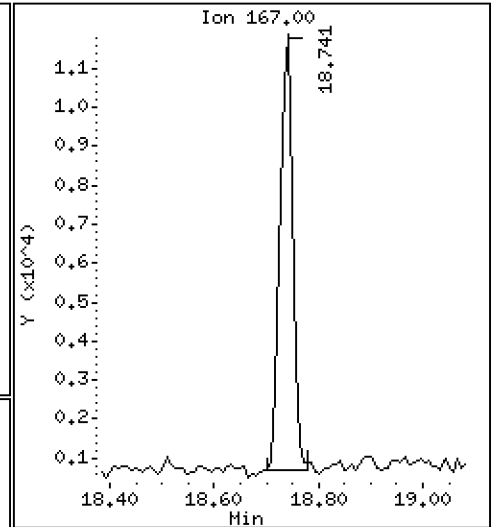
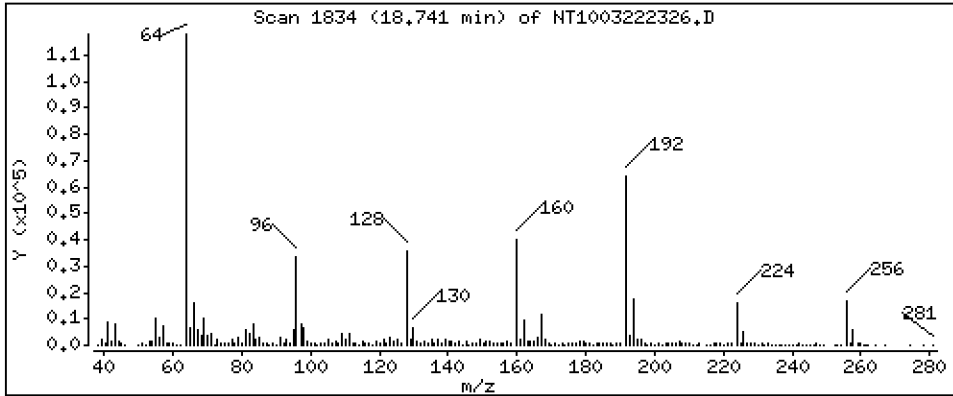
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1373 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

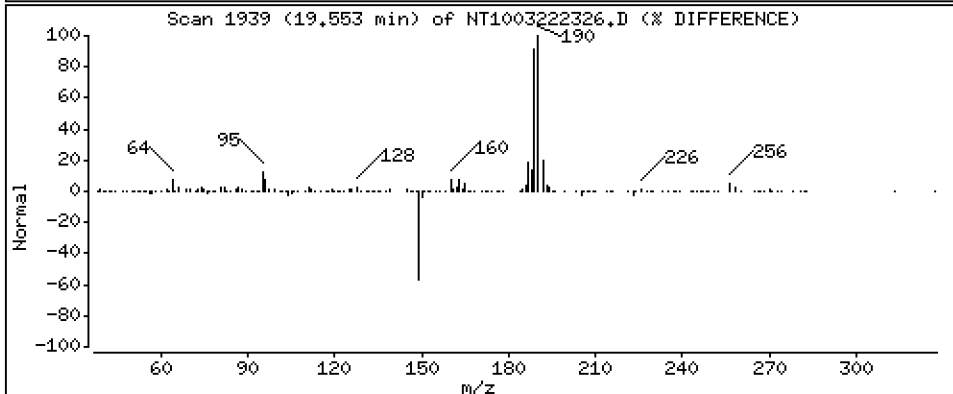
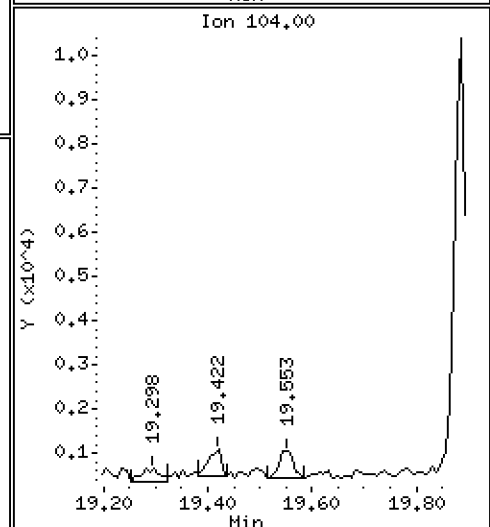
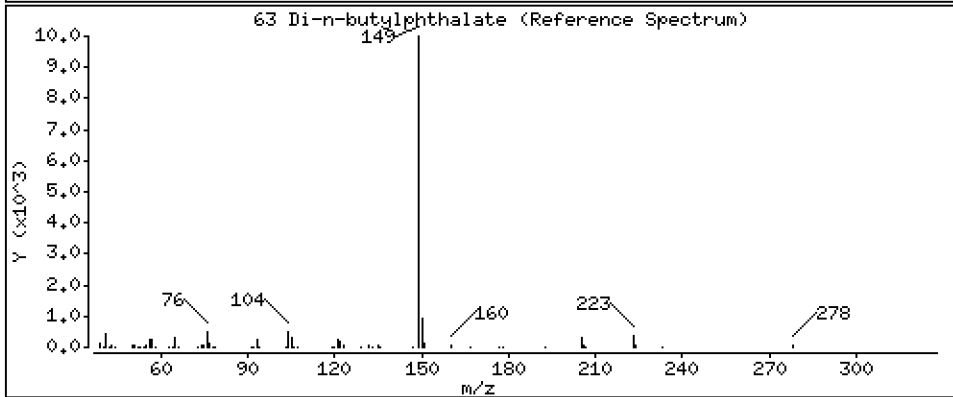
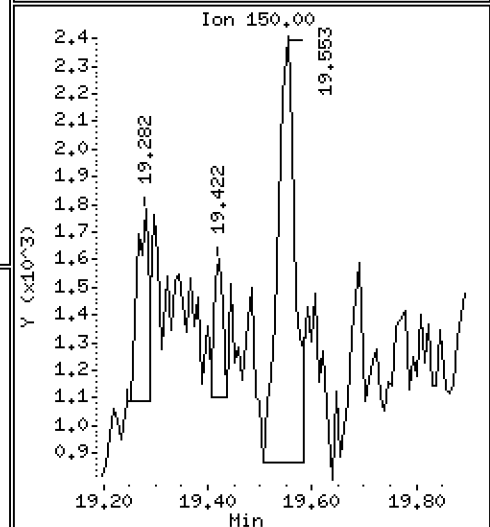
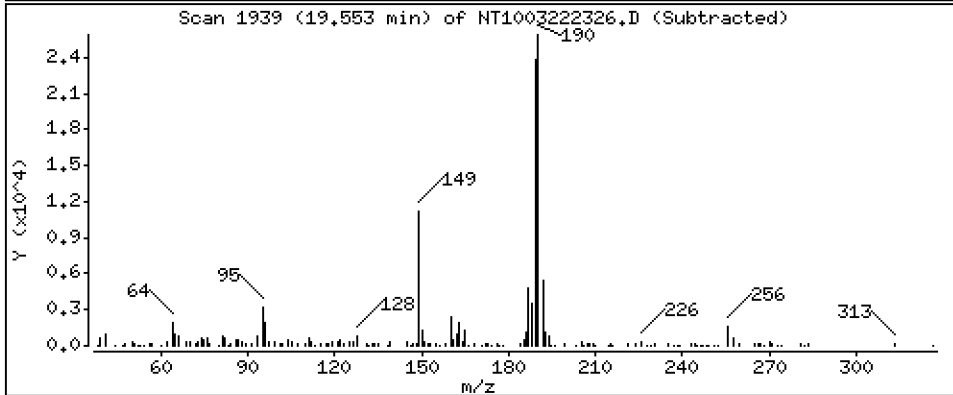
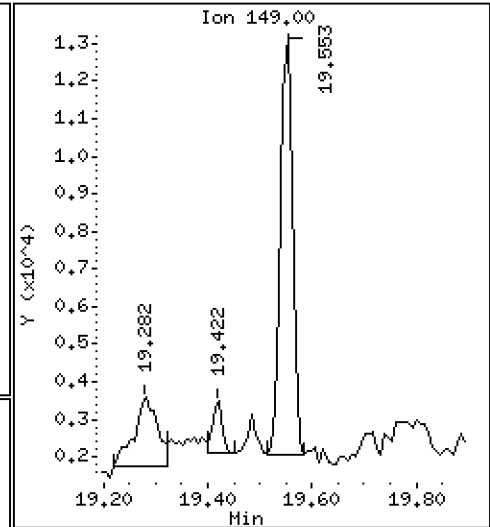
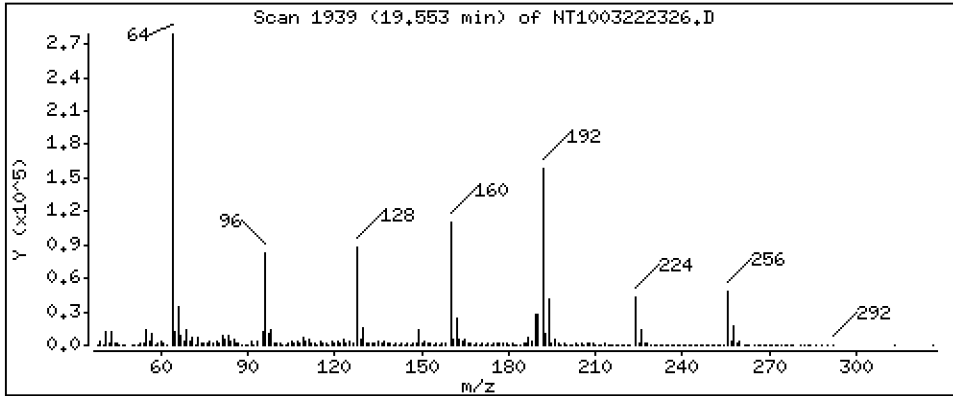
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,09392 ug/mL





Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

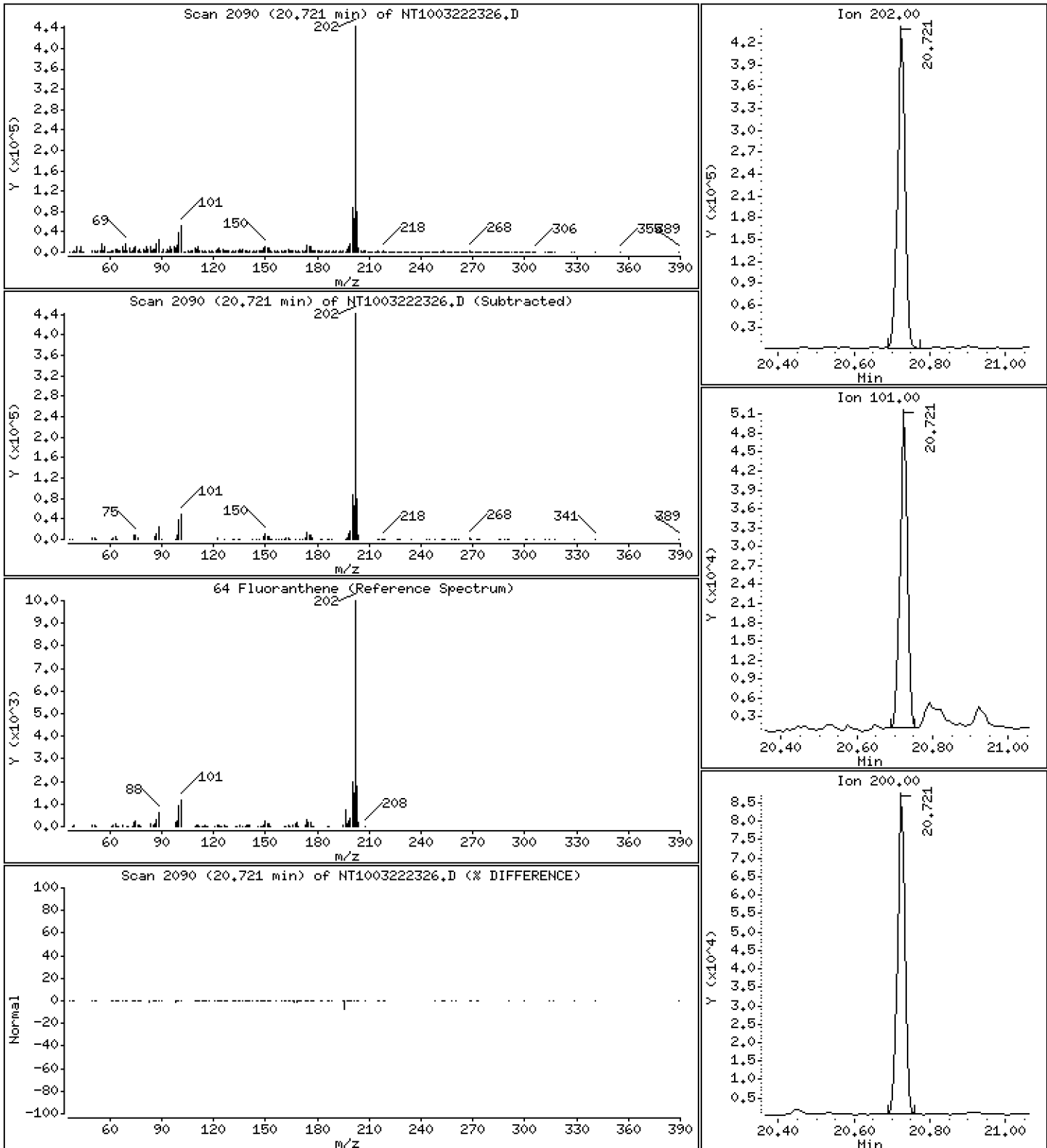
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 2,779 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

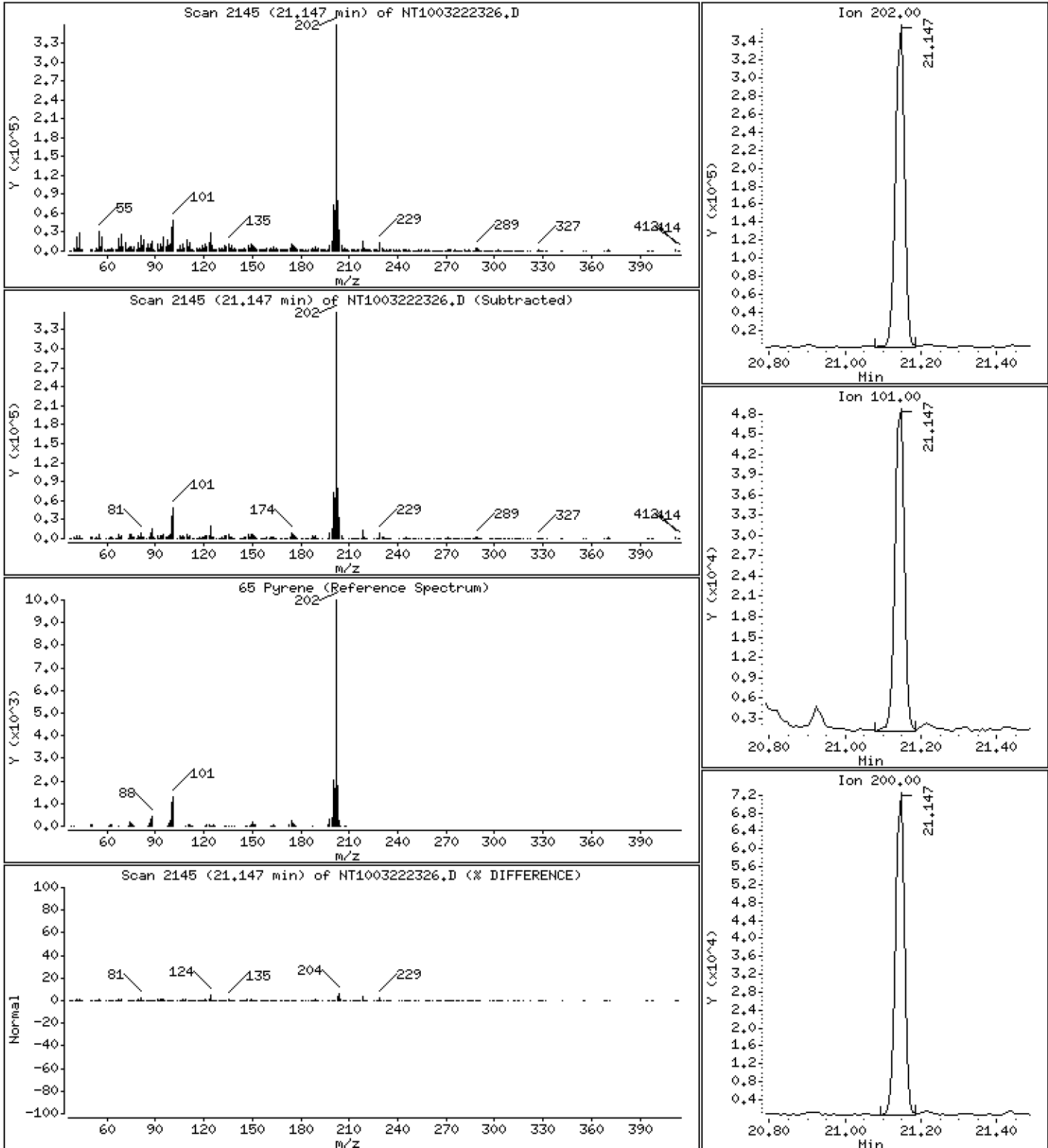
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 2,467 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

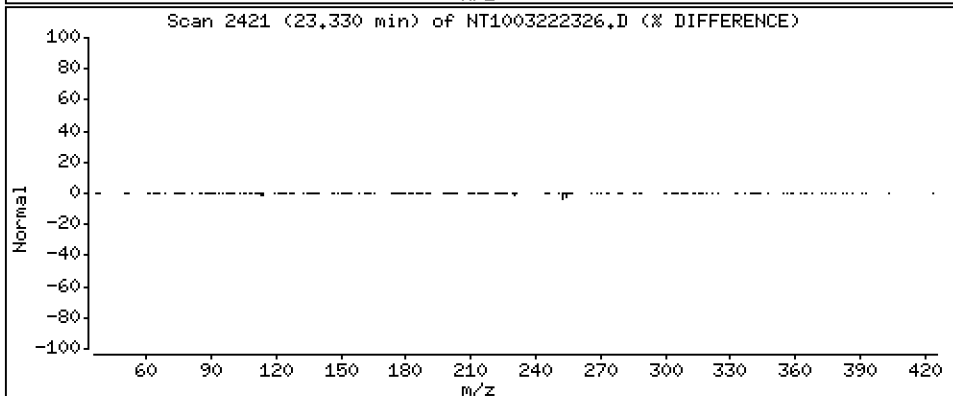
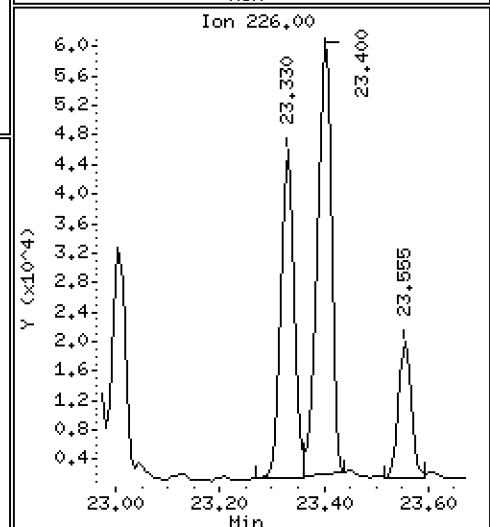
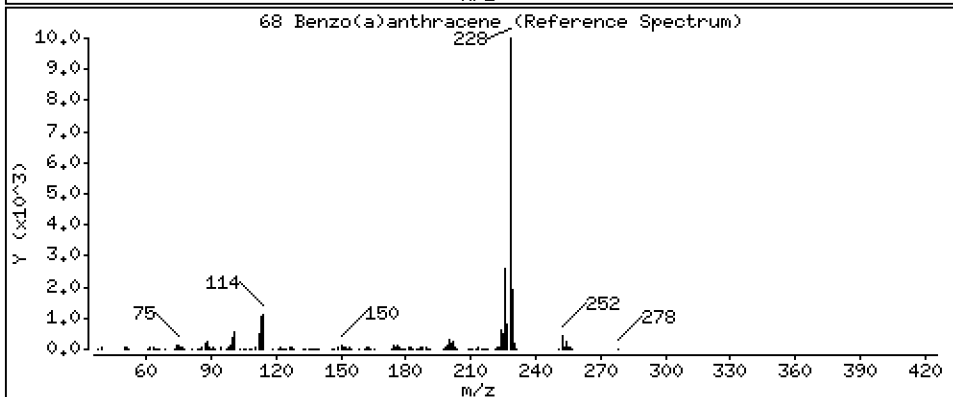
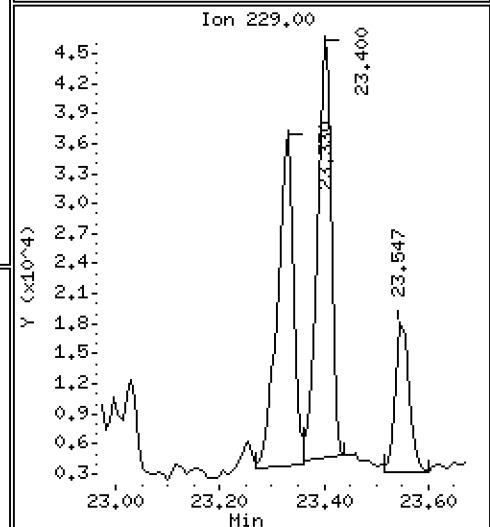
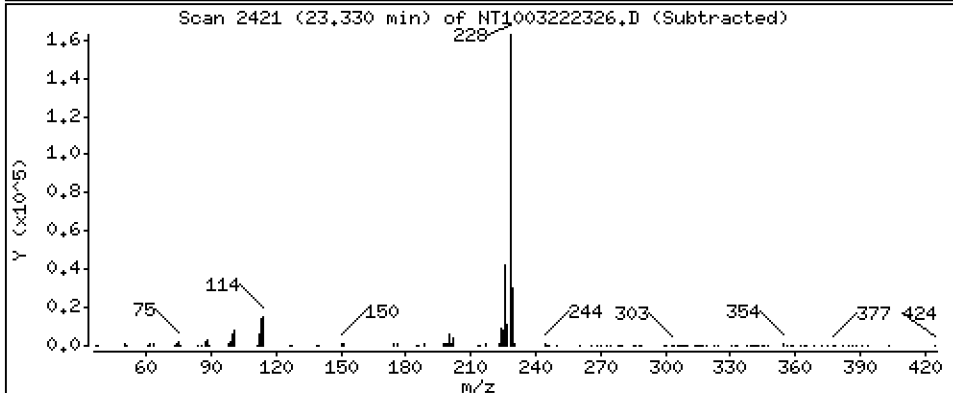
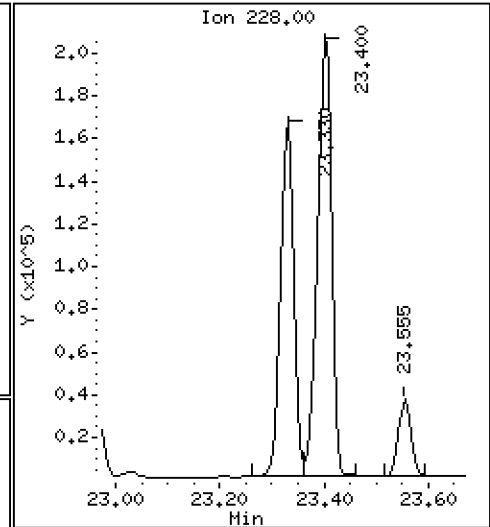
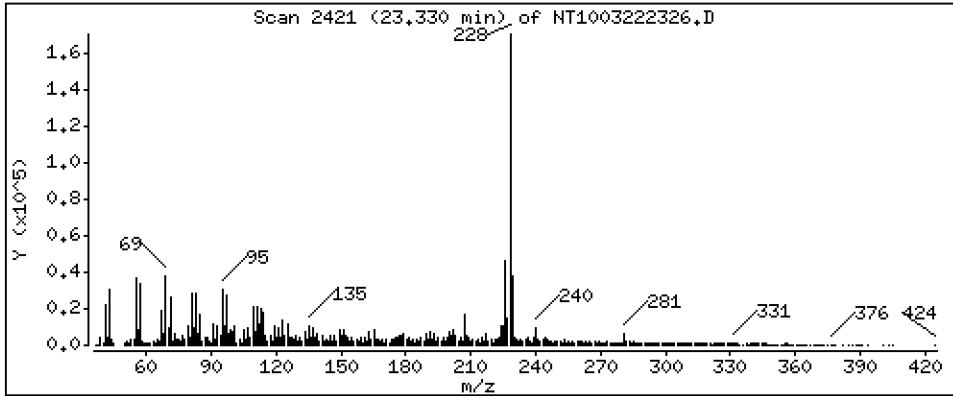
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 1,506 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

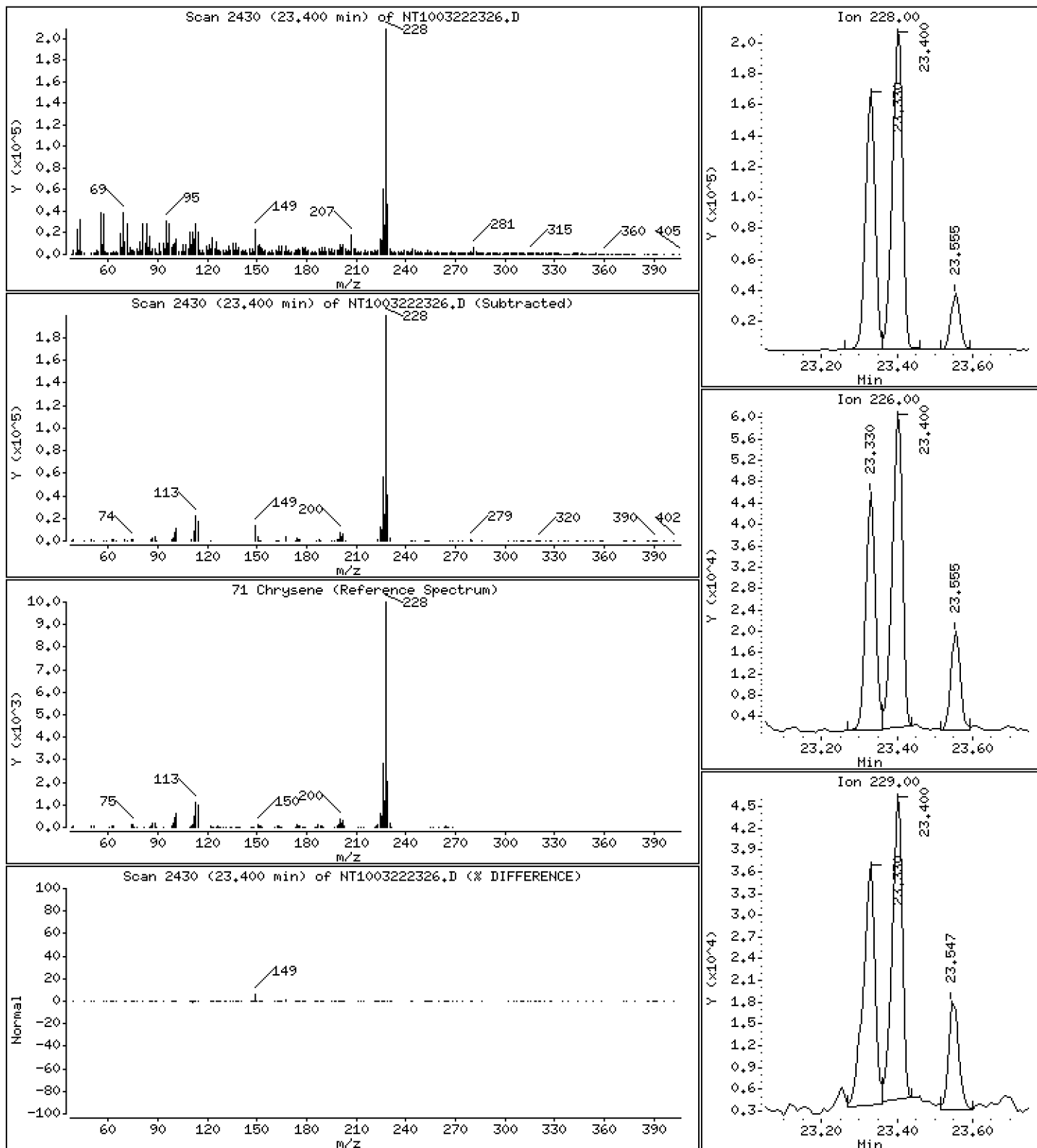
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 1,993 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

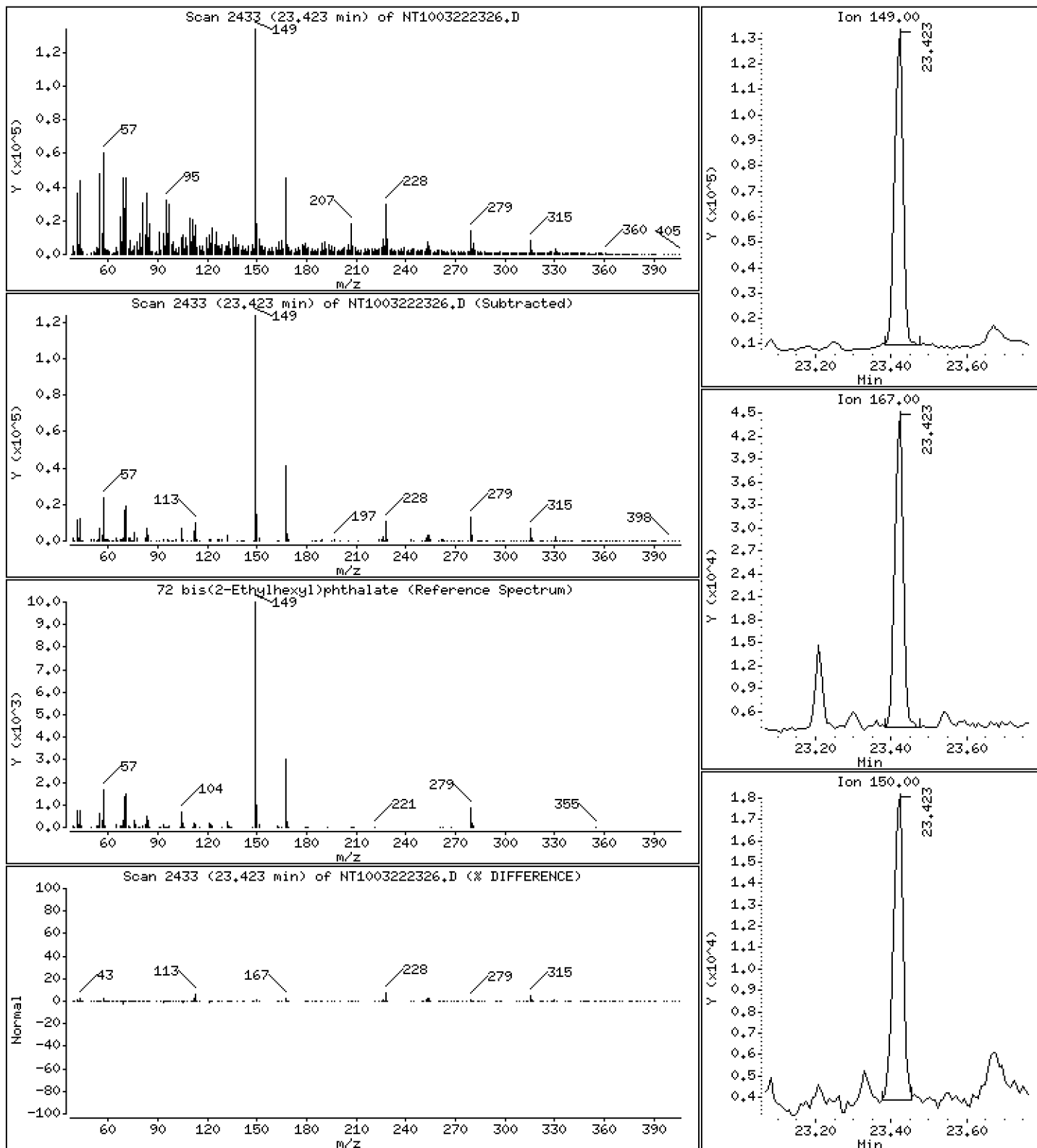
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 1,384 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

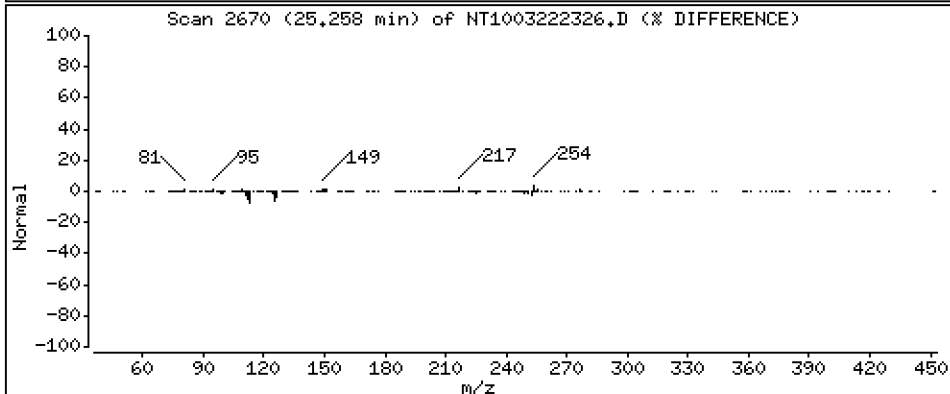
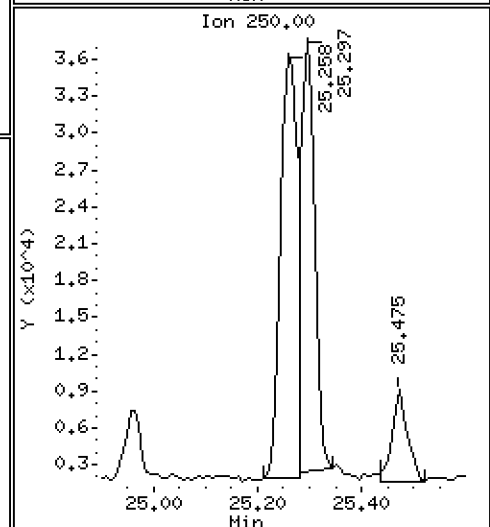
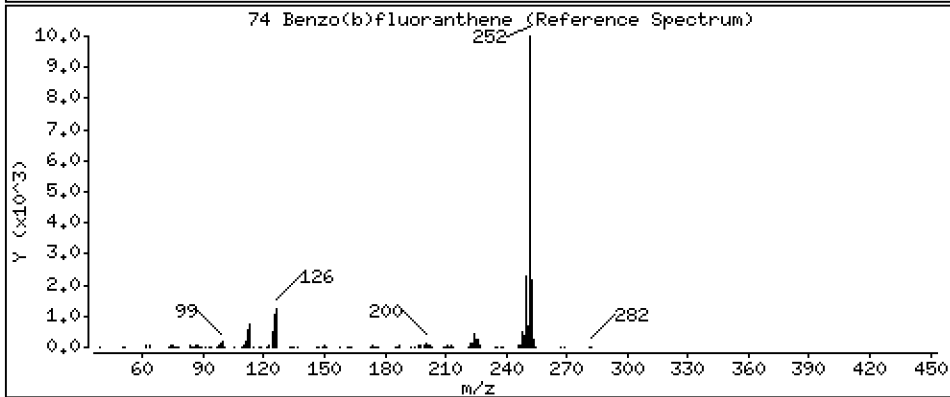
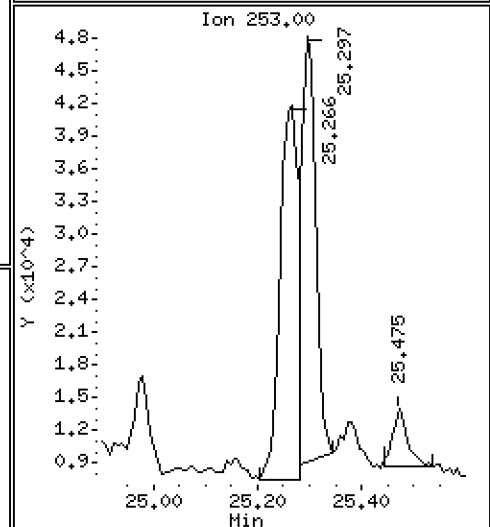
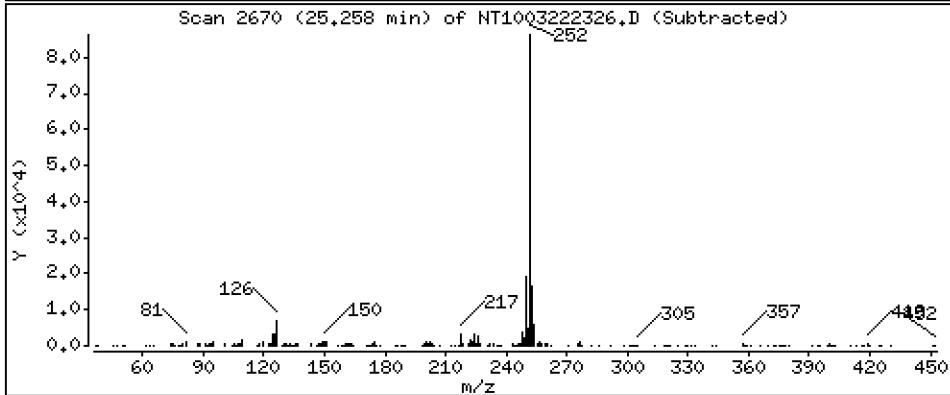
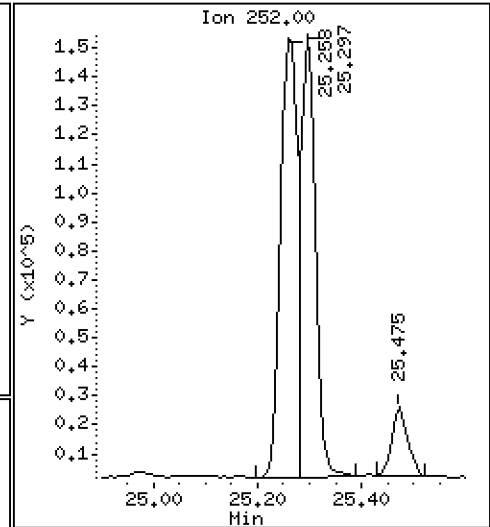
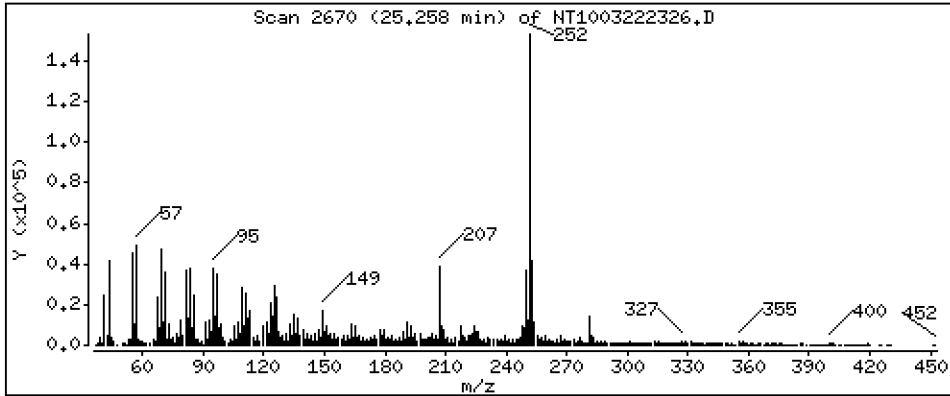
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 1,808 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

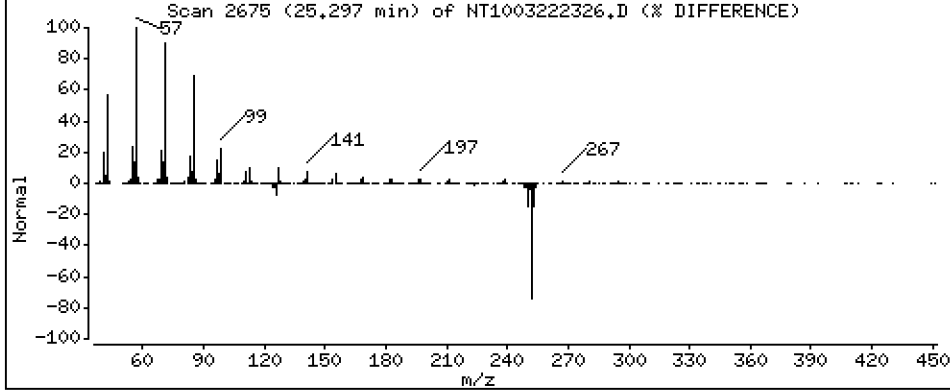
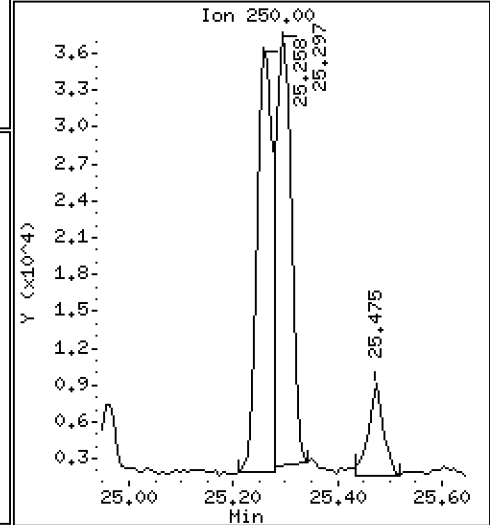
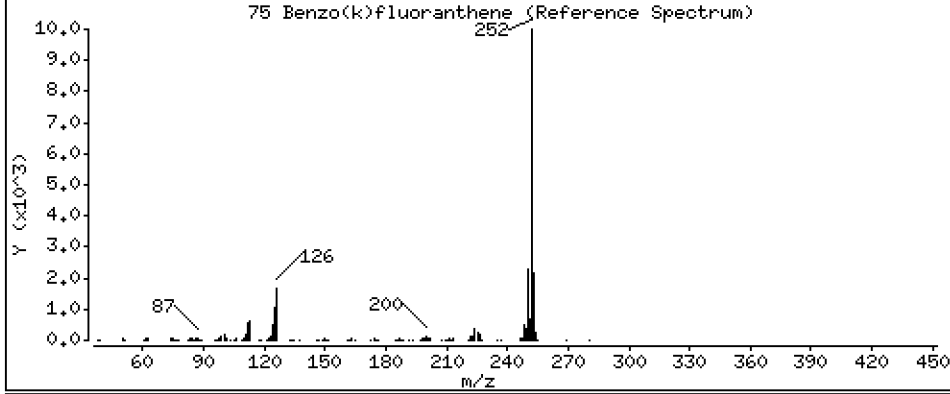
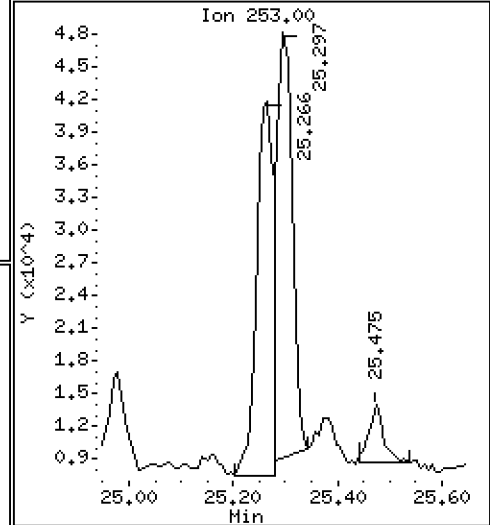
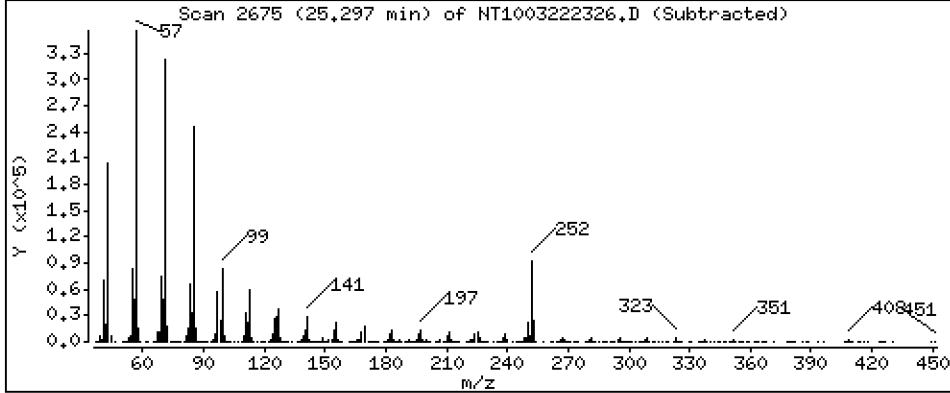
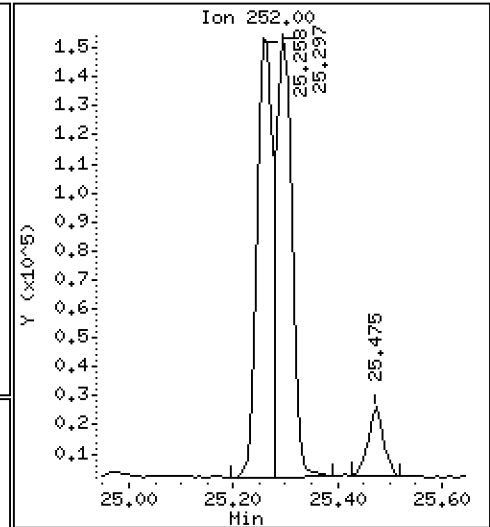
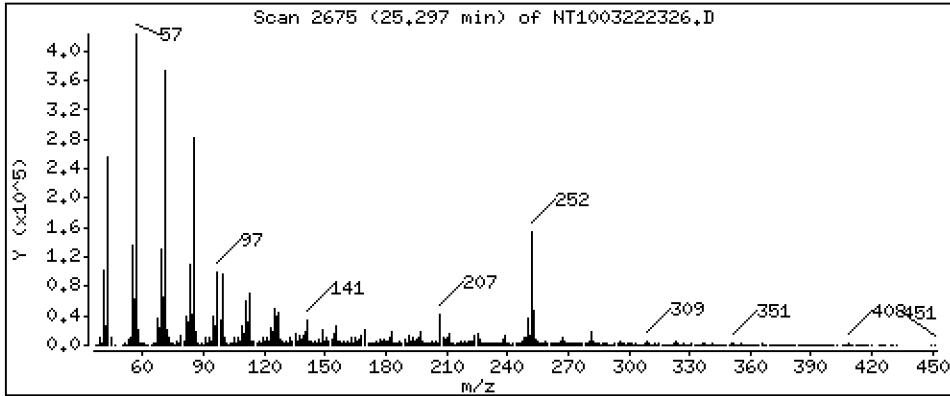
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 1,602 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

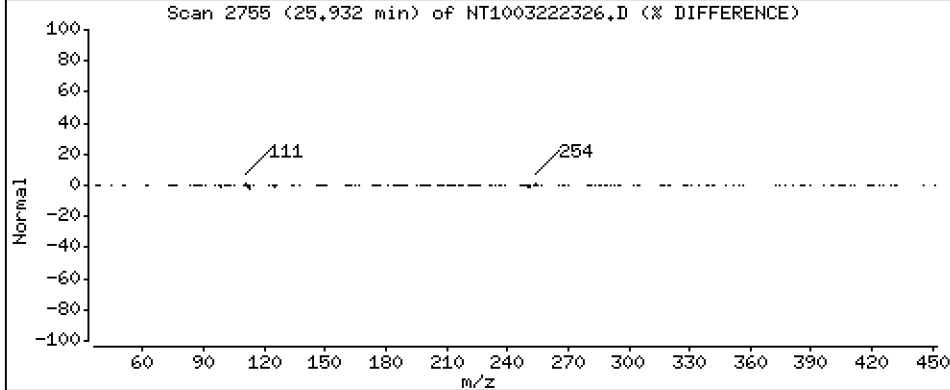
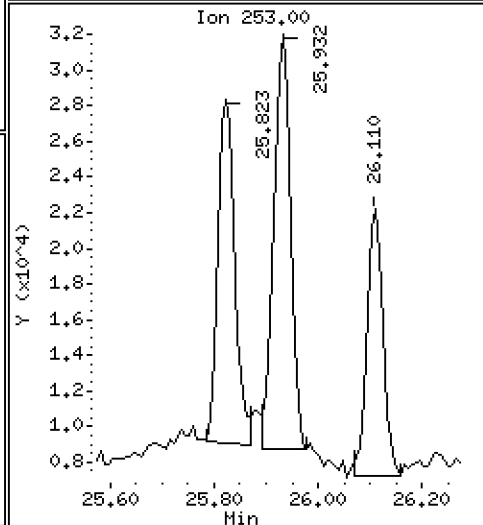
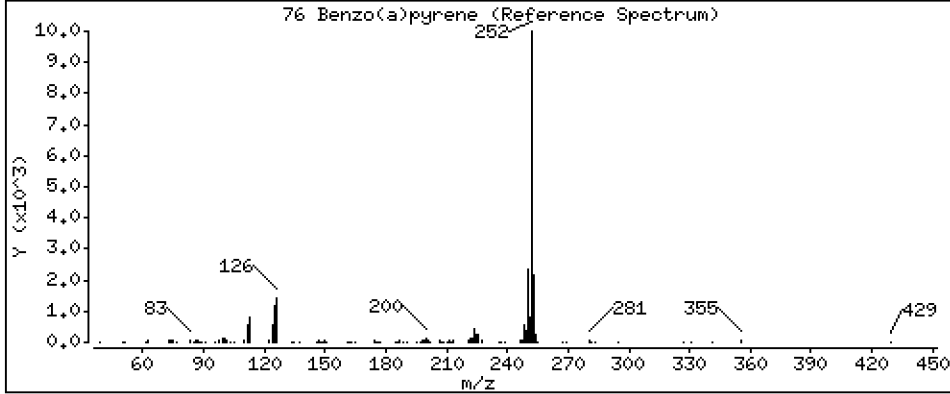
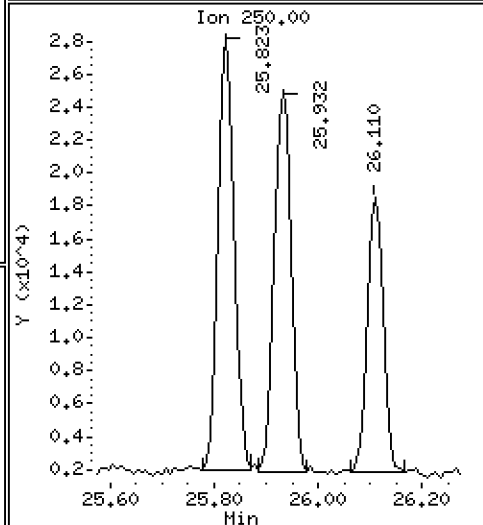
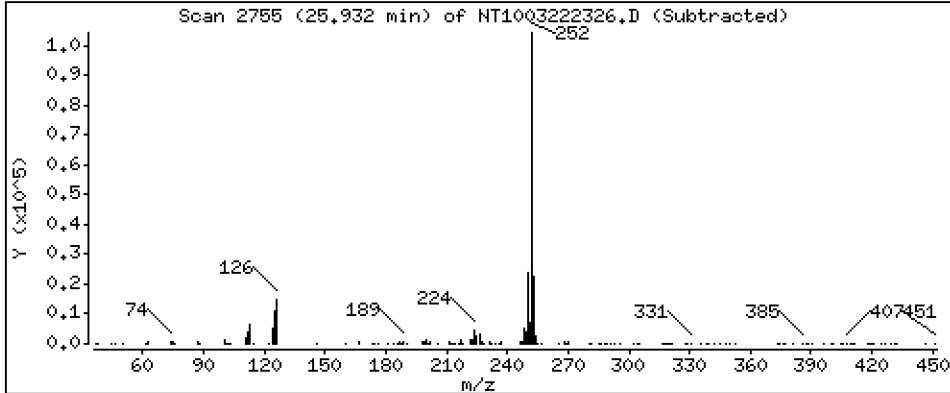
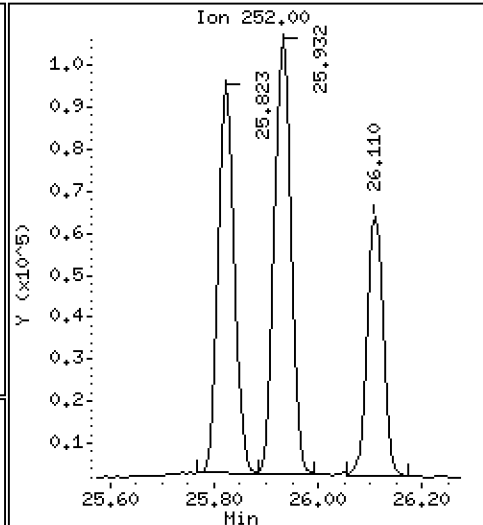
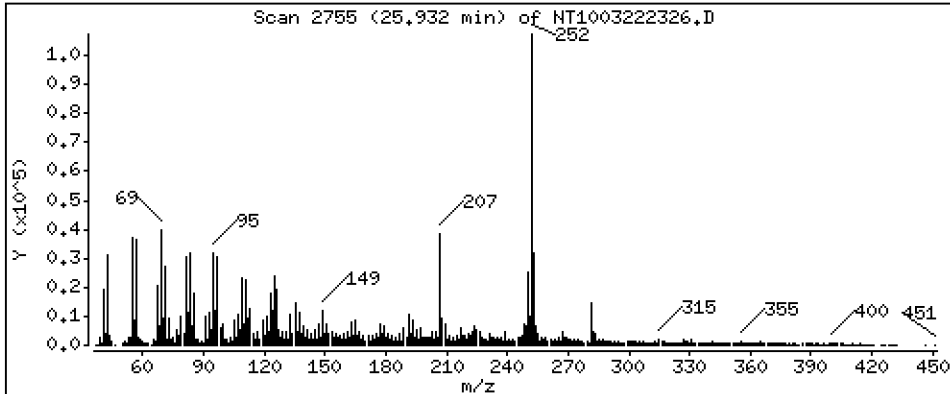
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 1,313 ug/mL





Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

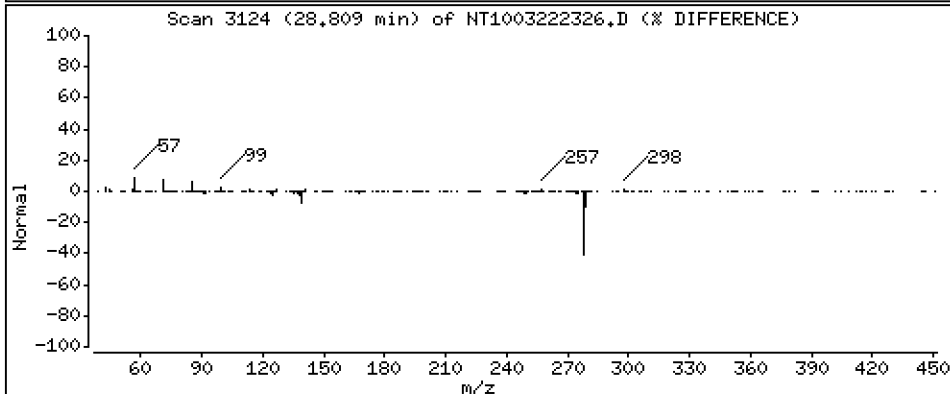
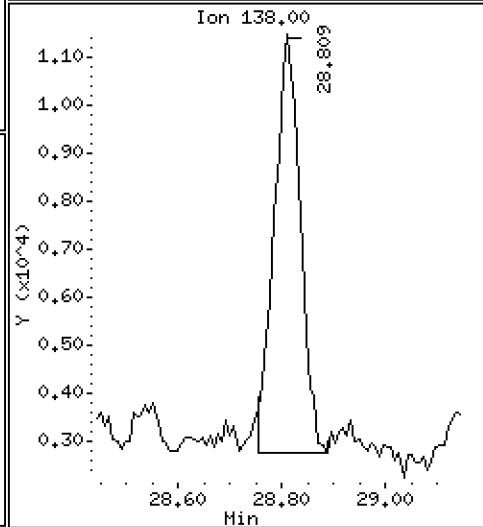
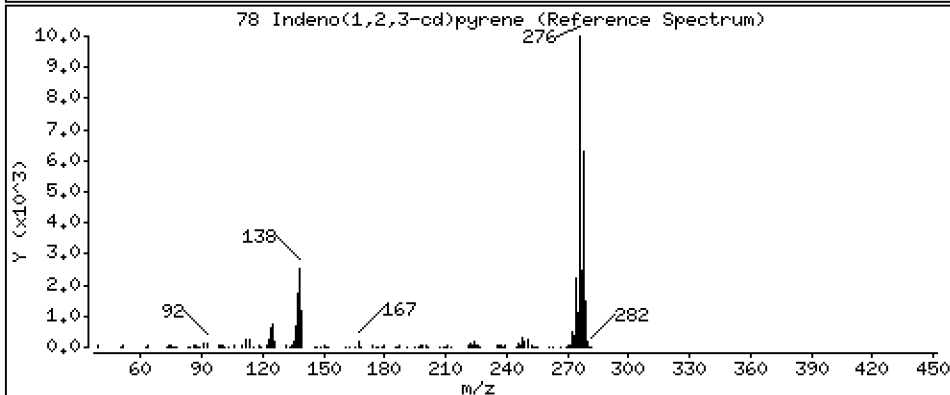
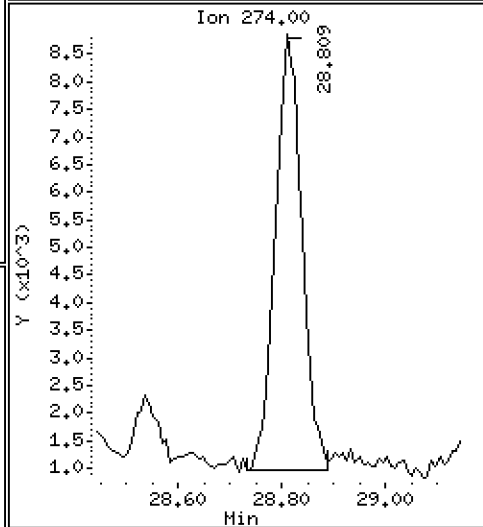
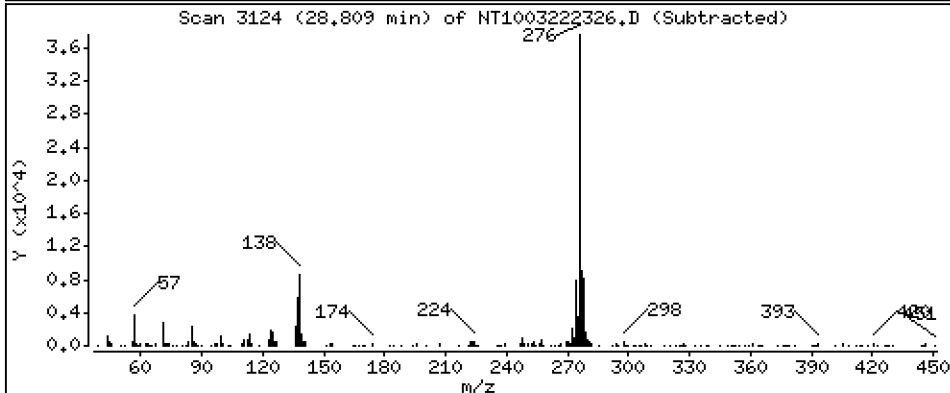
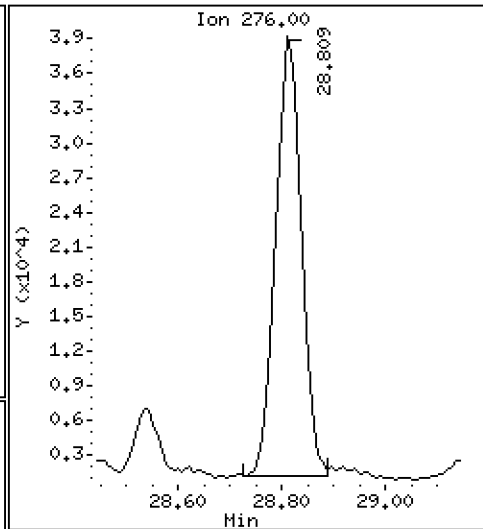
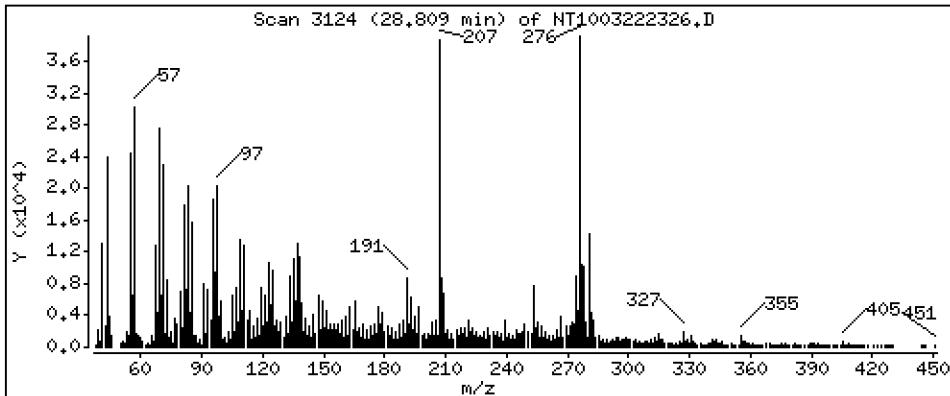
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,5986 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

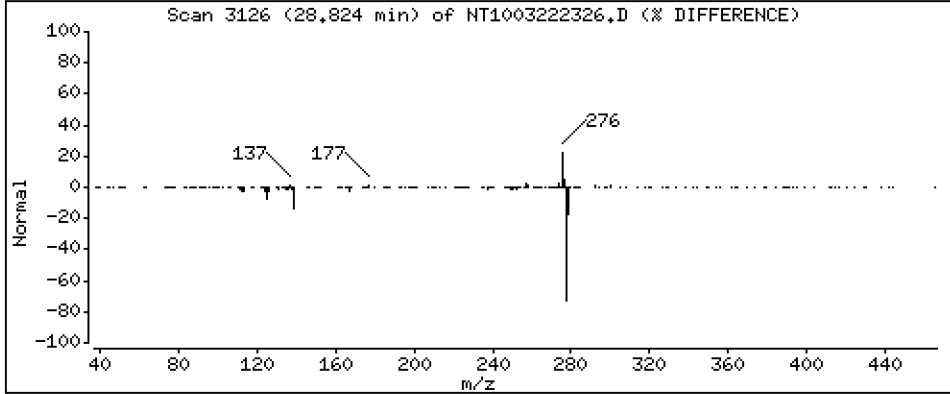
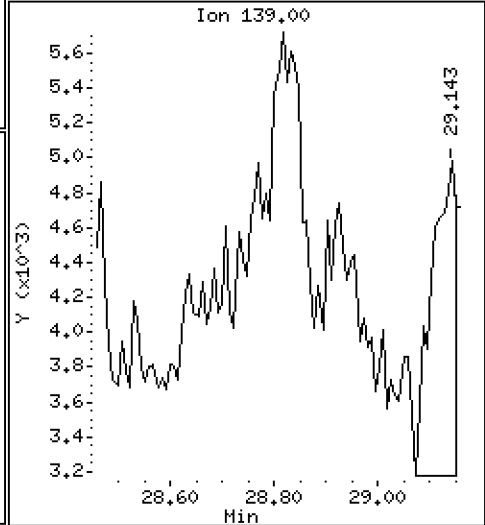
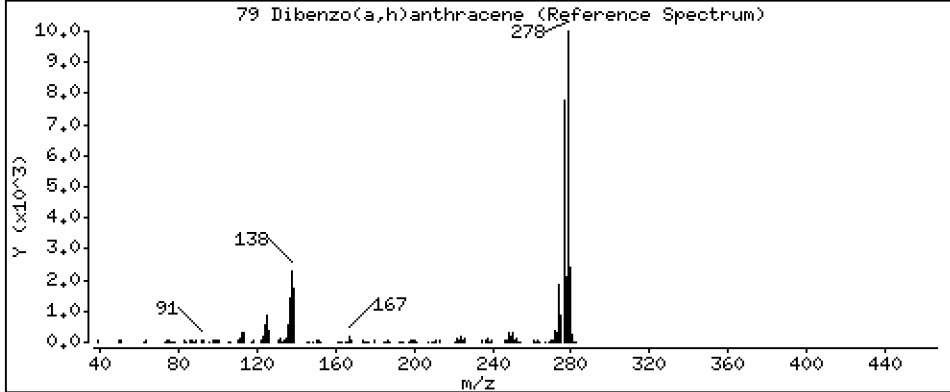
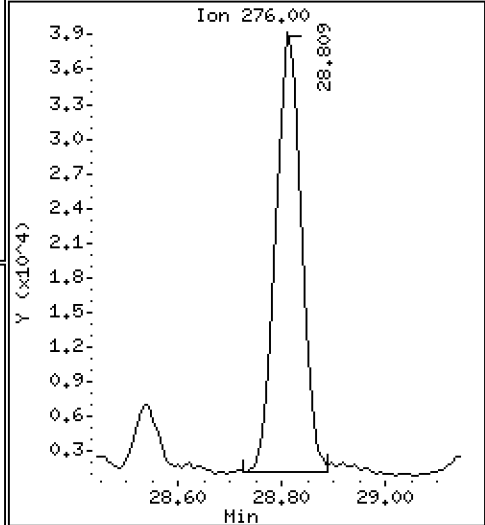
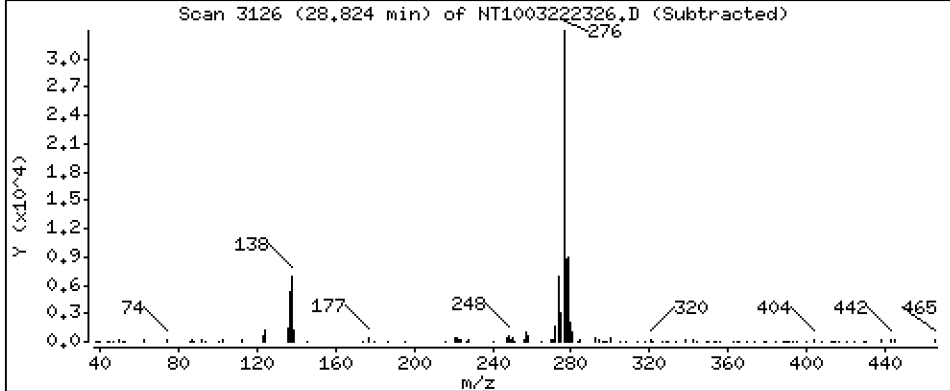
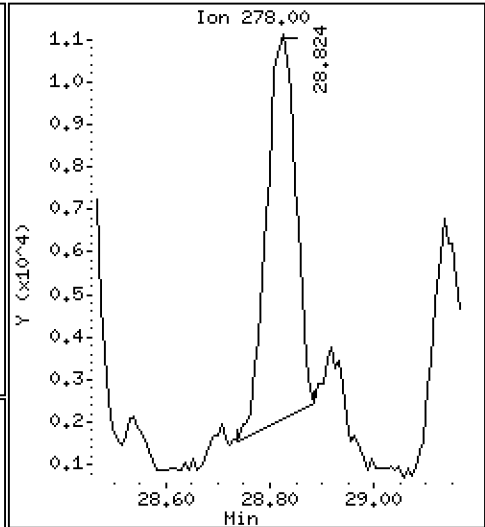
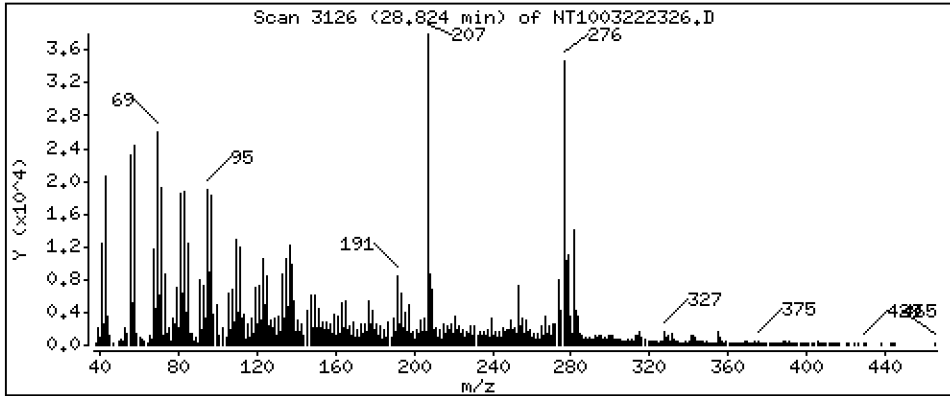
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1912 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

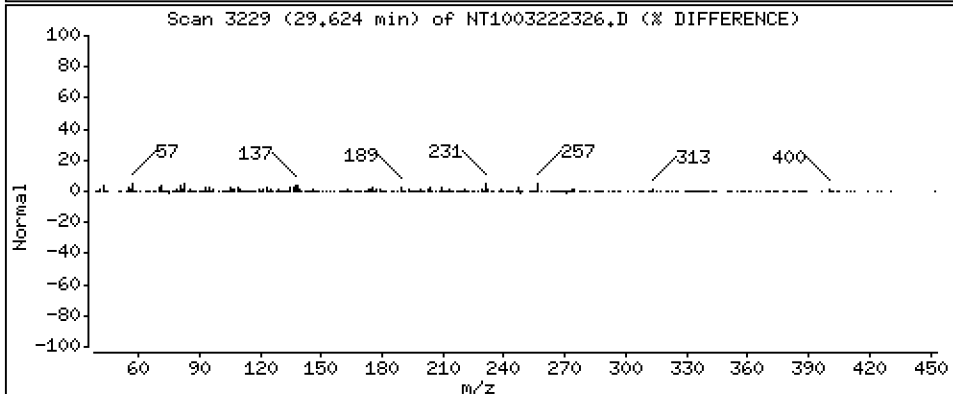
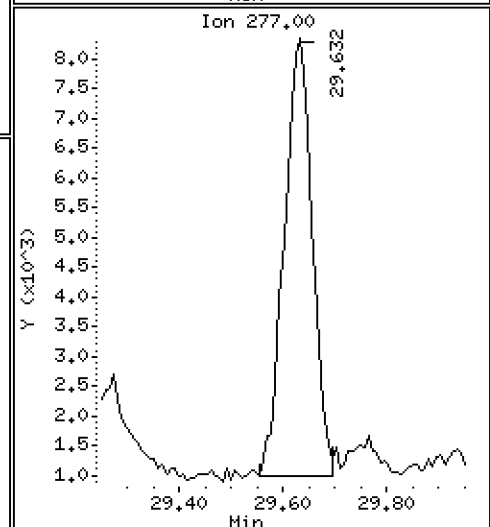
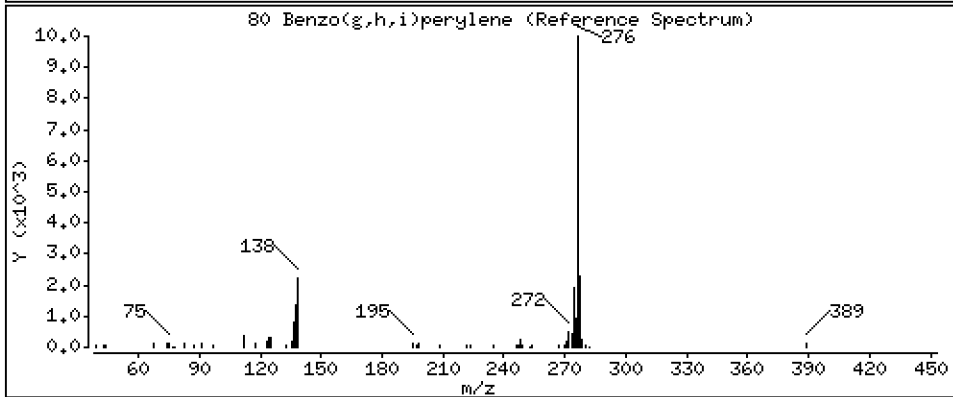
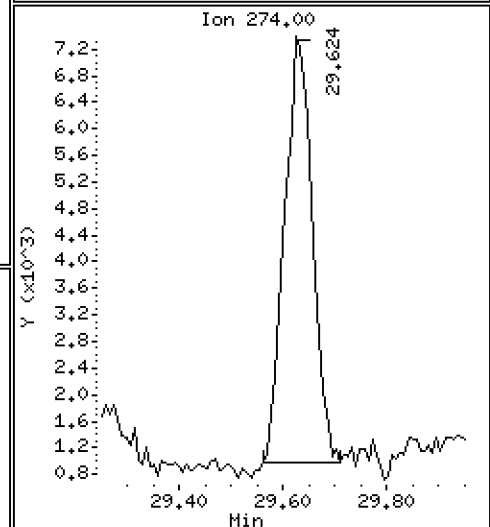
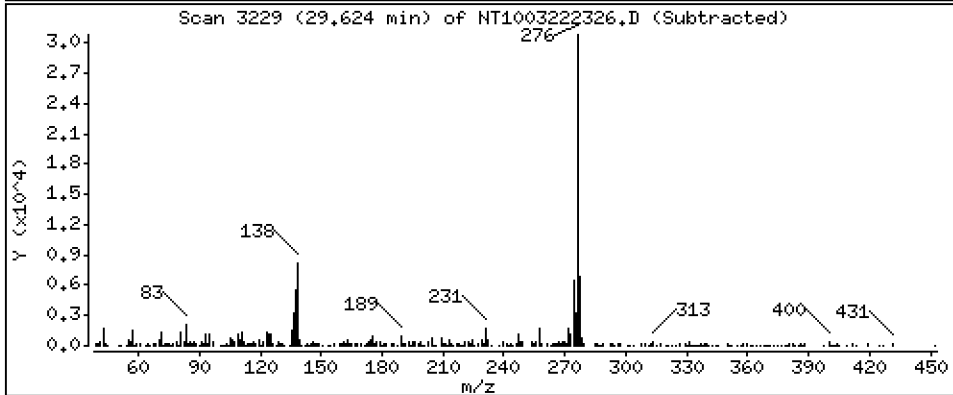
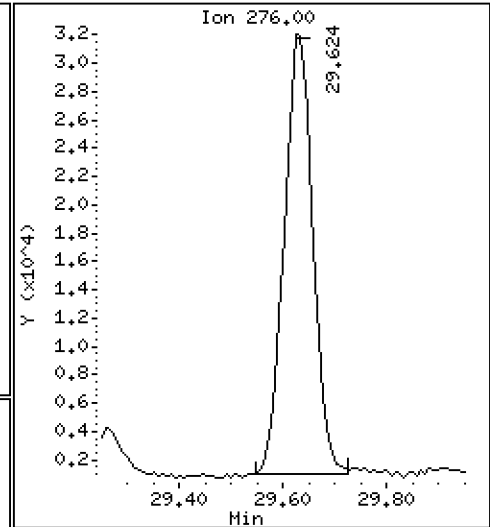
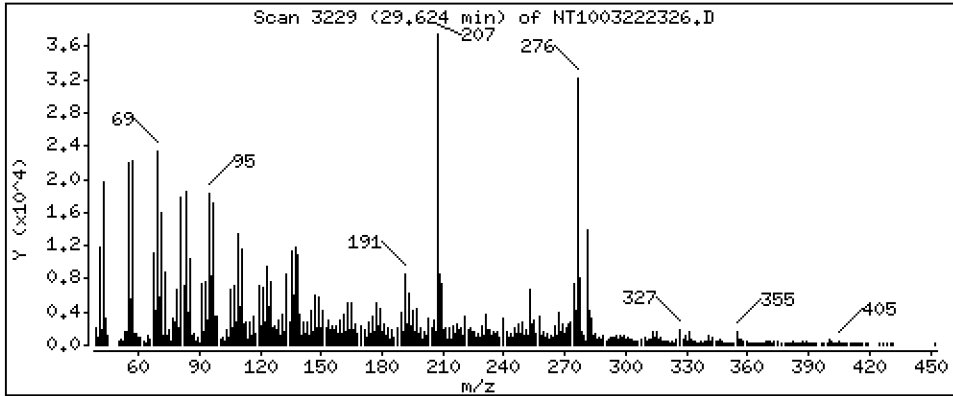
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,6327 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

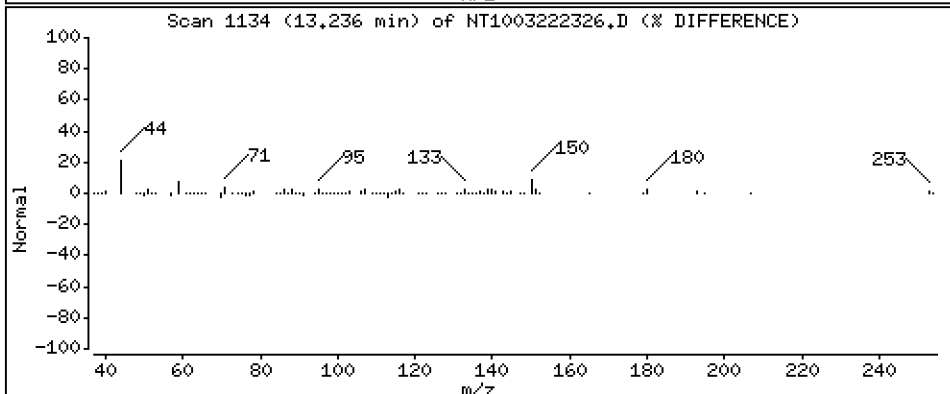
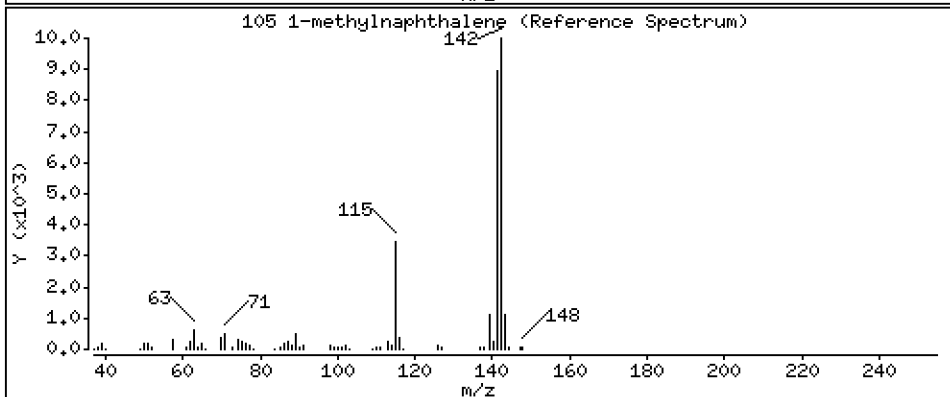
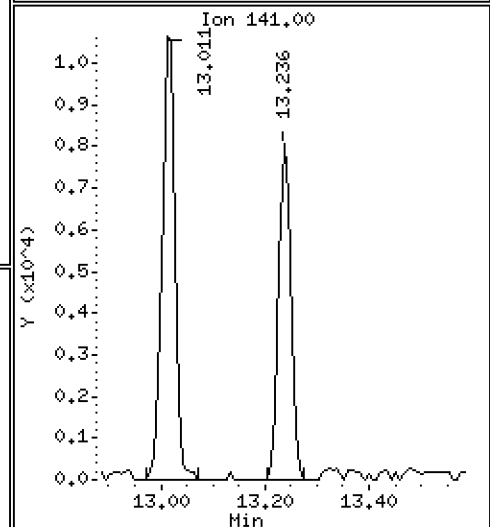
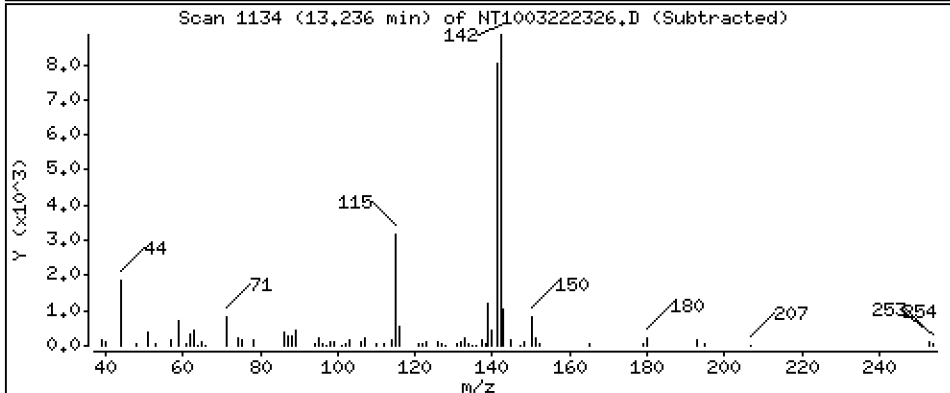
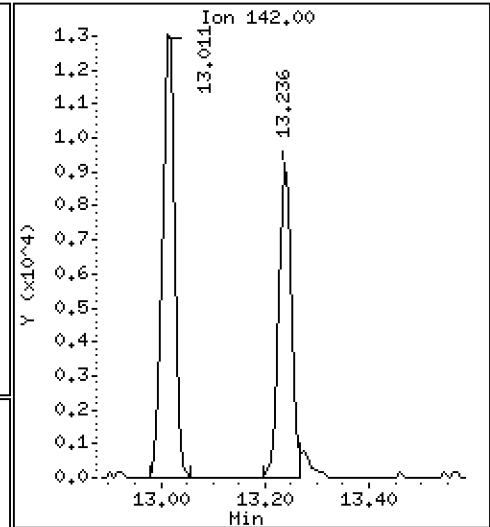
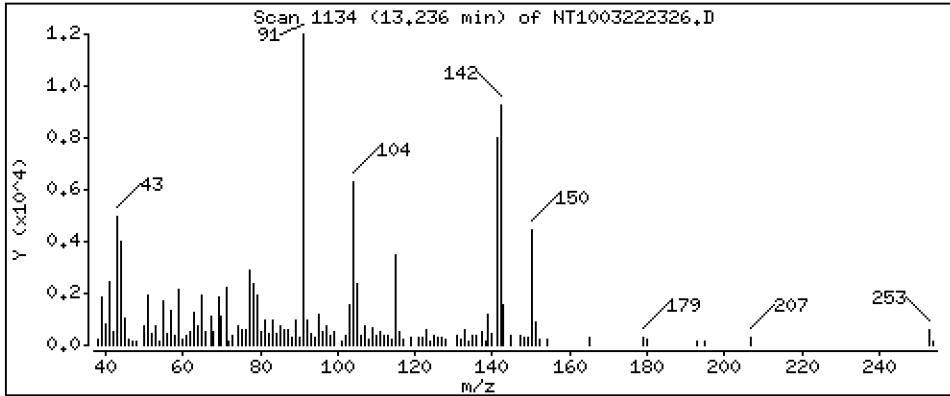
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,1581 ug/mL



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10RE1

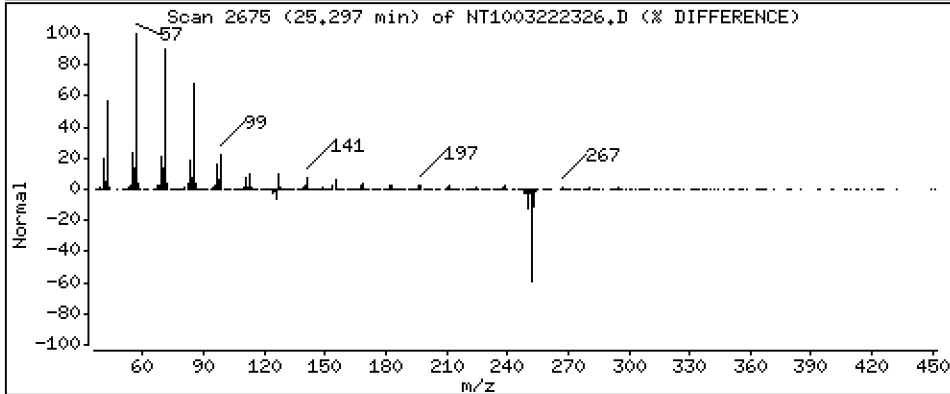
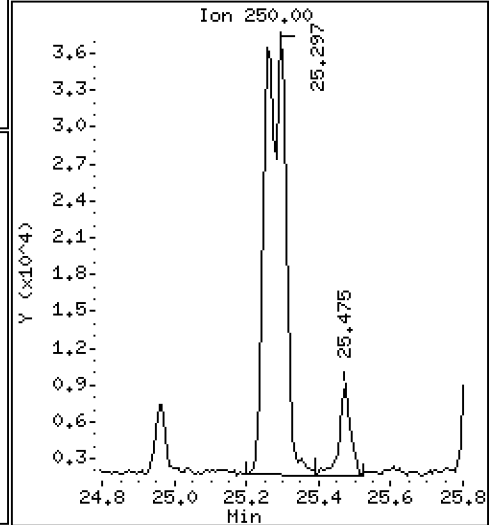
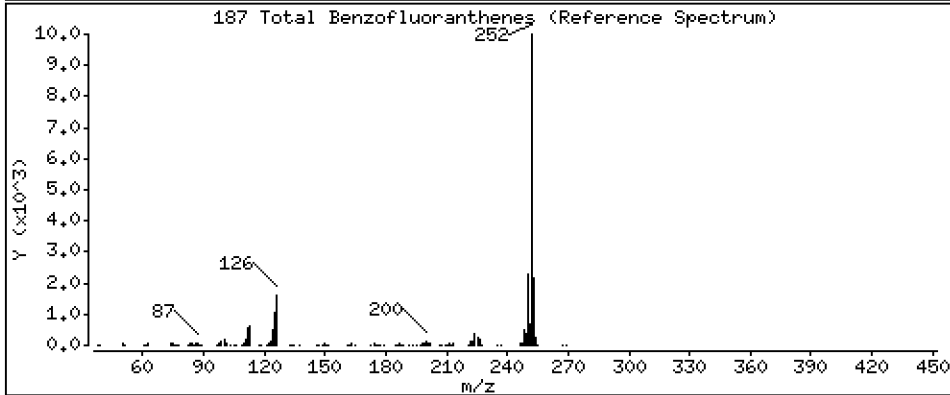
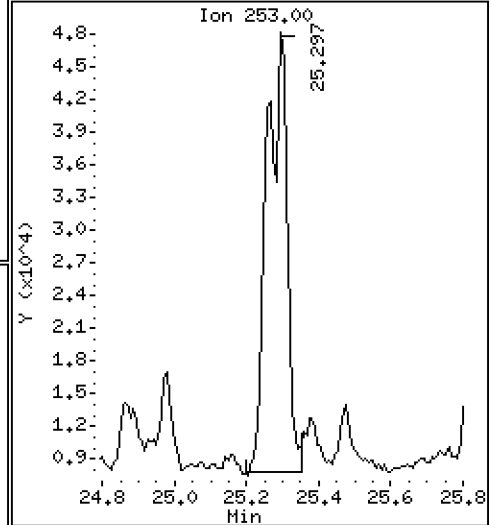
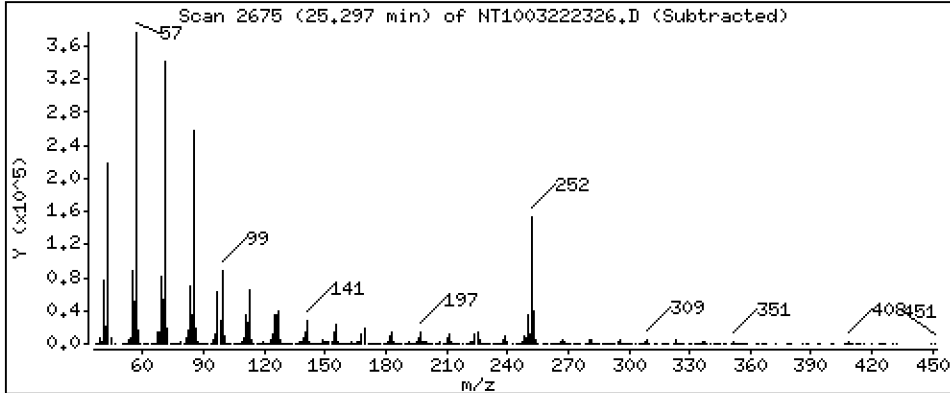
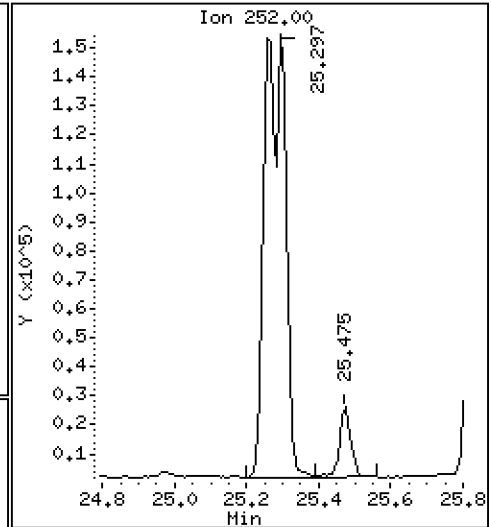
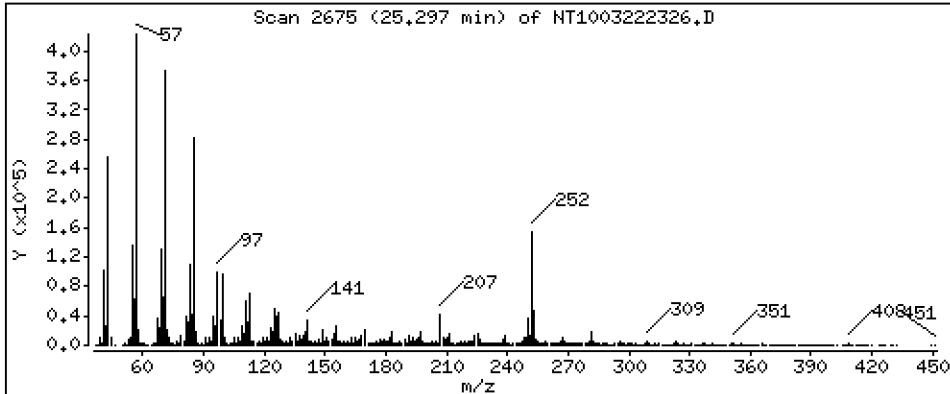
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 3,308 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222326.D  
 Lab Smp Id: 23A0179-10RE1  
 Inj Date : 23-MAR-2023 08:55  
 Operator : VTS  
 Smp Info : 23A0179-10RE1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 10:11 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 21  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |             |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-------------|
|                                 |       |     |                        |        |         |          | ON-COLUMN      | FINAL       |
|                                 | MASS  |     |                        |        |         |          | (ug/mL)        | (ug/mL)     |
| \$ 1 2-Fluorophenol             | 112   |     | 6.859                  | 6.851  | (0.755) | 251065   | 5.60987        | 5.610       |
| \$ 2 Phenol-d5                  | 99    |     | 8.451                  | 8.450  | (0.930) | 338514   | 5.76578        | 5.766       |
| 3 Phenol                        | 94    |     | 8.474                  | 8.474  | (0.933) | 333445   | 5.46543        | 5.465       |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.729                  | 8.721  | (0.961) | 303794   | 6.05953        | 6.060       |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | Compound Not Detected. |        |         |          |                |             |
| 6 2-Chlorophenol                | 128   |     | Compound Not Detected. |        |         |          |                |             |
| 7 1,3-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |             |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.085                  | 9.085  | (1.000) | 147991   | 4.00000        |             |
| 9 1,4-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |             |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.442                  | 9.441  | (1.039) | 132411   | 3.67762        | 3.678       |
| 12 1,2-Dichlorobenzene          | 146   |     | Compound Not Detected. |        |         |          |                |             |
| 11 Benzyl alcohol               | 108   |     | 9.356                  | 9.356  | (1.030) | 8315     | 0.29037        | 0.2904      |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | Compound Not Detected. |        |         |          |                |             |
| 13 2-Methylphenol               | 108   |     | 9.597                  | 9.589  | (1.056) | 1083     | 0.02435        | 0.02435 (M) |
| 17 Hexachloroethane             | 117   |     | Compound Not Detected. |        |         |          |                |             |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | Compound Not Detected. |        |         |          |                |             |
| 15 4-Methylphenol               | 108   |     | 9.861                  | 9.861  | (1.085) | 179692   | 3.83462        | 3.835       |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.179                 | 10.179 | (0.879) | 210741   | 3.86783        | 3.868       |
| 19 Nitrobenzene                 | 77    |     | Compound Not Detected. |        |         |          |                |             |
| 20 Isophorone                   | 82    |     | Compound Not Detected. |        |         |          |                |             |
| 21 2-Nitrophenol                | 139   |     | Compound Not Detected. |        |         |          |                |             |
| 22 2,4-Dimethylphenol           | 107   |     | Compound Not Detected. |        |         |          |                |             |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | Compound Not Detected. |        |         |          |                |             |
| 24 Benzoic acid                 | 105   |     | 11.020                 | 11.105 | (0.952) | 23594    | 0.86374        | 0.8637 (H)  |
| 25 2,4-Dichlorophenol           | 162   |     | Compound Not Detected. |        |         |          |                |             |
| 26 1,2,4-Trichlorobenzene       | 180   |     | Compound Not Detected. |        |         |          |                |             |
| * 27 Naphthalene-d8             | 136   |     | 11.580                 | 11.572 | (1.000) | 539802   | 4.00000        |             |
| 28 Naphthalene                  | 128   |     | 11.619                 | 11.618 | (1.003) | 38136    | 0.26668        | 0.2667      |
| 29 4-Chloroaniline              | 127   |     | Compound Not Detected. |        |         |          |                |             |
| 30 Hexachlorobutadiene          | 225   |     | Compound Not Detected. |        |         |          |                |             |
| 31 4-Chloro-3-methylphenol      | 107   |     | Compound Not Detected. |        |         |          |                |             |
| 32 2-Methylnaphthalene          | 142   |     | 13.011                 | 13.018 | (1.124) | 21338    | 0.20677        | 0.2068      |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                |             |

| Compounds                         | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
|                                   |       |     |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| \$ 36 2-Fluorobiphenyl            | 172   |     | 13.800 | 13.800 | (0.908) | 499474   | 4.12846              | 4.128            |
| 37 2-Chloronaphthalene            | 162   |     |        |        |         |          |                      |                  |
| 38 2-Nitroaniline                 | 65    |     |        |        |         |          |                      |                  |
| 39 Dimethylphthalate              | 163   |     | 14.706 | 14.706 | (0.967) | 6659     | 0.06702              | 0.06702          |
| 40 Acenaphthylene                 | 152   |     | 14.884 | 14.884 | (0.979) | 18215    | 0.11933              | 0.1193           |
| 41 2,6-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| * 42 Acenaphthene-d10             | 164   |     | 15.201 | 15.201 | (1.000) | 305843   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 44 Acenaphthene                   | 153   |     | 15.271 | 15.263 | (1.005) | 38934    | 0.41286              | 0.4129           |
| 45 2,4-Dinitrophenol              | 184   |     |        |        |         |          |                      |                  |
| 46 Dibenzofuran                   | 168   |     | 15.595 | 15.595 | (1.026) | 35970    | 0.25866              | 0.2587           |
| 47 4-Nitrophenol                  | 109   |     |        |        |         |          |                      |                  |
| 48 2,4-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| 50 Diethylphthalate               | 149   |     | 16.167 | 16.175 | (1.064) | 18821    | 0.19307              | 0.1931           |
| 49 Fluorene                       | 166   |     | 16.314 | 16.314 | (1.073) | 31339    | 0.28645              | 0.2864           |
| 51 4-Chlorophenyl-phenylether     | 204   |     |        |        |         |          |                      |                  |
| 52 4-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     |        |        |         |          |                      |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     |        |        |         |          |                      |                  |
| \$ 55 2,4,6-Tribromophenol        | 330   |     | 16.854 | 16.846 | (1.109) | 121309   | 8.52542              | 8.525            |
| 56 4-Bromophenyl-phenylether      | 248   |     |        |        |         |          |                      |                  |
| 57 Hexachlorobenzene              | 284   |     |        |        |         |          |                      |                  |
| 58 Pentachlorophenol              | 266   |     |        |        |         |          |                      |                  |
| * 59 Phenanthrene-d10             | 188   |     | 18.261 | 18.260 | (1.000) | 575184   | 4.00000              |                  |
| 60 Phenanthrene                   | 178   |     | 18.307 | 18.307 | (1.003) | 228306   | 1.45566              | 1.456            |
| 61 Anthracene                     | 178   |     | 18.400 | 18.400 | (1.008) | 80292    | 0.53368              | 0.5337           |
| 62 Carbazole                      | 167   |     | 18.740 | 18.732 | (1.026) | 18509    | 0.13729              | 0.1373           |
| 63 Di-n-butylphthalate            | 149   |     | 19.553 | 19.545 | (1.071) | 17025    | 0.09392              | 0.09392          |
| 64 Fluoranthene                   | 202   |     | 20.721 | 20.713 | (0.887) | 601598   | 2.77920              | 2.779            |
| 65 Pyrene                         | 202   |     | 21.146 | 21.139 | (0.905) | 547722   | 2.46662              | 2.467            |
| \$ 66 Terphenyl-d14               | 244   |     | 21.441 | 21.433 | (0.918) | 703525   | 4.21884              | 4.219            |
| 67 Butylbenzylphthalate           | 149   |     |        |        |         |          |                      |                  |
| 68 Benzo(a)anthracene             | 228   |     | 23.330 | 23.322 | (0.999) | 286325   | 1.50579              | 1.506            |
| * 69 Chrysene-d12                 | 240   |     | 23.361 | 23.353 | (1.000) | 538713   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     |        |        |         |          |                      |                  |
| 71 Chrysene                       | 228   |     | 23.400 | 23.399 | (1.002) | 370333   | 1.99348              | 1.993            |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 23.423 | 23.415 | (0.959) | 183417   | 1.38399              | 1.384            |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 24.429 | 24.421 | (1.000) | 905425   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149   |     |        |        |         |          |                      |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 25.257 | 25.250 | (0.969) | 351308   | 1.80759              | 1.808            |
| 75 Benzo(k)fluoranthene           | 252   |     | 25.296 | 25.296 | (0.971) | 316086   | 1.60166              | 1.602            |
| 76 Benzo(a)pyrene                 | 252   |     | 25.931 | 25.923 | (0.995) | 228226   | 1.31344              | 1.313            |
| * 77 Perylene-d12                 | 264   |     | 26.055 | 26.040 | (1.000) | 599572   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 28.808 | 28.793 | (1.106) | 132329   | 0.59859              | 0.5986           |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 28.824 | 28.816 | (1.106) | 35091    | 0.19120              | 0.1912 (M)       |
| 80 Benzo(g,h,i)perylene           | 276   |     | 29.624 | 29.601 | (1.137) | 121036   | 0.63265              | 0.6327           |
| 90 N-Nitrosodimethylamine         | 74    |     |        |        |         |          |                      |                  |
| 91 Aniline                        | 93    |     |        |        |         |          |                      |                  |
| 93 Benzidine                      | 184   |     |        |        |         |          |                      |                  |
| 103 Pyridine                      | 79    |     |        |        |         |          |                      |                  |
| 105 1-methylnaphthalene           | 142   |     | 13.235 | 13.235 | (1.143) | 14951    | 0.15813              | 0.1581           |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     |        |        |         |          |                      |                  |

| Compounds                     | QUANT SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |  |
|-------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|--|
|                               |           |                        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |  |
| 187 Total Benzofluoranthenes  | 252       | 25.296                 | 25.296 | (0.971) | 620668   | 3.30756              | 3.308            |  |
| 120 2,3,4,6-Tetrachlorophenol | 232       | Compound Not Detected. |        |         |          |                      |                  |  |

### QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.



ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-MAR-2023  
 Lab File ID: NT1003222326.D Calibration Time: 03:15  
 Lab Smp Id: 23A0179-10RE1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 137603   | 68802      | 275206  | 147991 | 7.55  |
| 27 Naphthalene-d8     | 494588   | 247294     | 989176  | 539802 | 9.14  |
| 42 Acenaphthene-d10   | 278674   | 139337     | 557348  | 305843 | 9.75  |
| 59 Phenanthrene-d10   | 509229   | 254615     | 1018458 | 575184 | 12.95 |
| 69 Chrysene-d12       | 462271   | 231136     | 924542  | 538713 | 16.54 |
| 134 Di-n-octylphthala | 782572   | 391286     | 1565144 | 905425 | 15.70 |
| 77 Perylene-d12       | 551153   | 275577     | 1102306 | 599572 | 8.79  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.09     | 8.59     | 9.59  | 9.09   | 0.00  |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.58  | 0.07  |
| 42 Acenaphthene-d10   | 15.20    | 14.70    | 15.70 | 15.20  | 0.00  |
| 59 Phenanthrene-d10   | 18.26    | 17.76    | 18.76 | 18.26  | 0.00  |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.36  | 0.03  |
| 134 Di-n-octylphthala | 24.42    | 23.92    | 24.92 | 24.43  | 0.03  |
| 77 Perylene-d12       | 26.04    | 25.54    | 26.54 | 26.06  | 0.06  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222326.D

Lab ID: 23A0179-10RE1  
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 08:55

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND     |
|-------|---------|---------|--------------|
| 0.952 | 0.960   | -0.0080 | Benzoic acid |

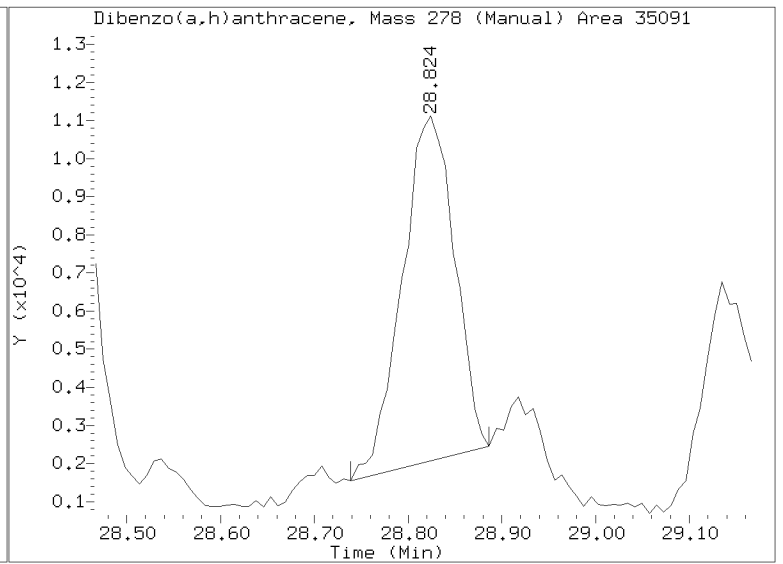
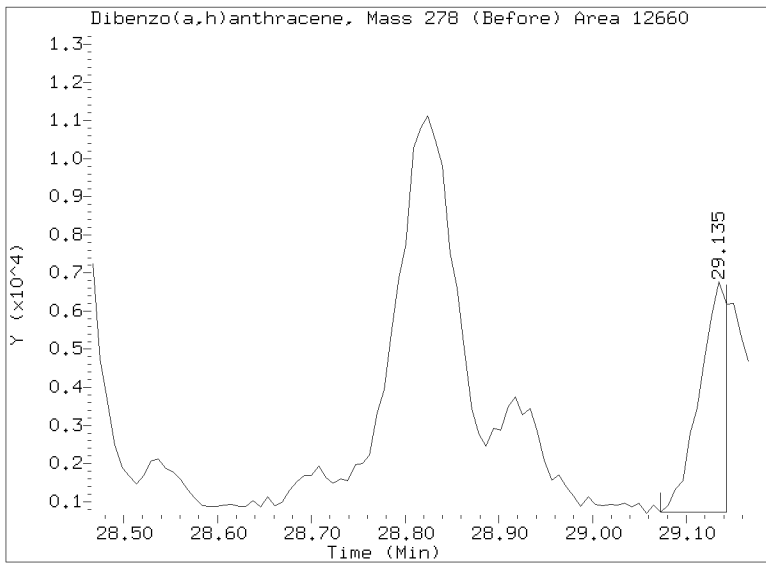
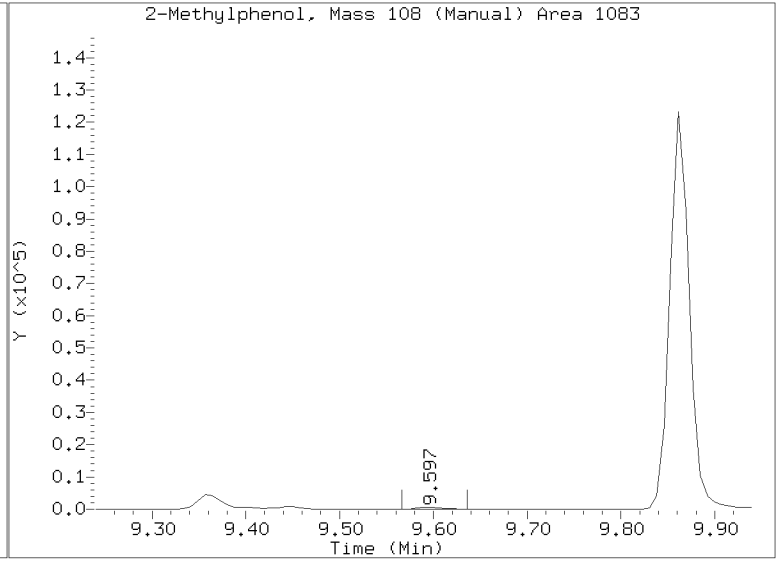
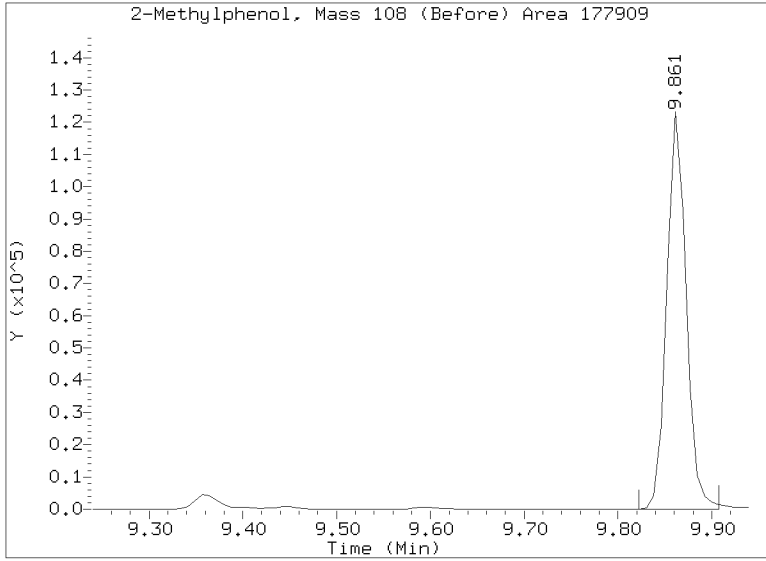
RRT check based on Ccal File: NT1003222317.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222326.D  
Injection Date: 23-MAR-2023 08:55  
Lab ID:23A0179-10RE1 Client ID:  
Report Date: 03/25/2023 10:16





Form I  
ORGANIC ANALYSIS DATA SHEET  
EPA 8270E  
Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-11RE1 A

SDG: 23A0179

Sampled: 01/10/23 11:56

Prepared: 03/17/23 11:16

File ID: NT1003222327.D

% Solids: 49.64

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 09:33

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 20.18 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| CAS NO.  | COMPOUND                    | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|-----------------------------|----------|----------------------|---|------|------|
| 108-95-2 | Phenol                      | 1        | 333                  |   | 4.4  | 20.0 |
| 106-44-5 | 4-Methylphenol              | 1        | 48.7                 |   | 7.4  | 20.0 |
| 91-20-3  | Naphthalene                 | 1        | 11.9                 | J | 4.2  | 20.0 |
| 91-57-6  | 2-Methylnaphthalene         | 1        | 10.0                 | J | 4.5  | 20.0 |
| 208-96-8 | Acenaphthylene              | 1        | 8.3                  | J | 6.2  | 20.0 |
| 131-11-3 | Dimethylphthalate           | 1        | 5.9                  | J | 4.4  | 20.0 |
| 83-32-9  | Acenaphthene                | 1        | 7.6                  | J | 5.2  | 20.0 |
| 132-64-9 | Dibenzofuran                | 1        | 20.0                 | U | 14.1 | 20.0 |
| 86-73-7  | Fluorene                    | 1        | 20.0                 | U | 14.5 | 20.0 |
| 85-01-8  | Phenanthrene                | 1        | 53.2                 |   | 8.7  | 20.0 |
| 120-12-7 | Anthracene                  | 1        | 31.4                 |   | 7.2  | 20.0 |
| 206-44-0 | Fluoranthene                | 1        | 123                  |   | 6.1  | 20.0 |
| 129-00-0 | Pyrene                      | 1        | 127                  |   | 5.7  | 20.0 |
| 85-68-7  | Butylbenzylphthalate        | 1        | 11.8                 | J | 9.4  | 20.0 |
| 56-55-3  | Benzo(a)anthracene          | 1        | 75.8                 |   | 5.9  | 20.0 |
| 218-01-9 | Chrysene                    | 1        | 109                  |   | 6.0  | 20.0 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate  | 1        | 131                  |   | 5.5  | 49.9 |
|          | Benzo(a)fluoranthene, Total | 1        | 214                  |   | 10.0 | 39.9 |
| 50-32-8  | Benzo(a)pyrene              | 1        | 84.3                 |   | 4.2  | 20.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene      | 1        | 42.0                 |   | 14.6 | 20.0 |
| 53-70-3  | Dibenzo(a,h)anthracene      | 1        | 20.0                 | U | 17.2 | 20.0 |
| 191-24-2 | Benzo(g,h,i)perylene        | 1        | 45.8                 |   | 13.6 | 20.0 |

| SURROGATES             | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol         | 748.70                | 570                   | 76.2  | 27 - 120  |   |
| Phenol-d5              | 748.70                | 582                   | 77.7  | 29 - 120  |   |
| 2-Chlorophenol-d4      | 748.70                | 615                   | 82.2  | 31 - 120  |   |
| 1,2-Dichlorobenzene-d4 | 499.13                | 369                   | 74.0  | 32 - 120  |   |
| Nitrobenzene-d5        | 499.13                | 387                   | 77.6  | 30 - 120  |   |
| 2-Fluorobiphenyl       | 499.13                | 419                   | 84.0  | 35 - 120  |   |



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Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-11RE1 A

SDG: 23A0179

Sampled: 01/10/23 11:56

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| SURROGATES           | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------|-----------------------|-----------------------|-------|-----------|---|
| 2,4,6-Tribromophenol | 748.70                | 874                   | 117   | 24 - 134  |   |
| p-Terphenyl-d14      | 499.13                | 423                   | 84.7  | 37 - 120  |   |

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222327.D

Date: 23-MAR-2023 09:33

Client ID:

Sample Info: 23A0179-11RE1

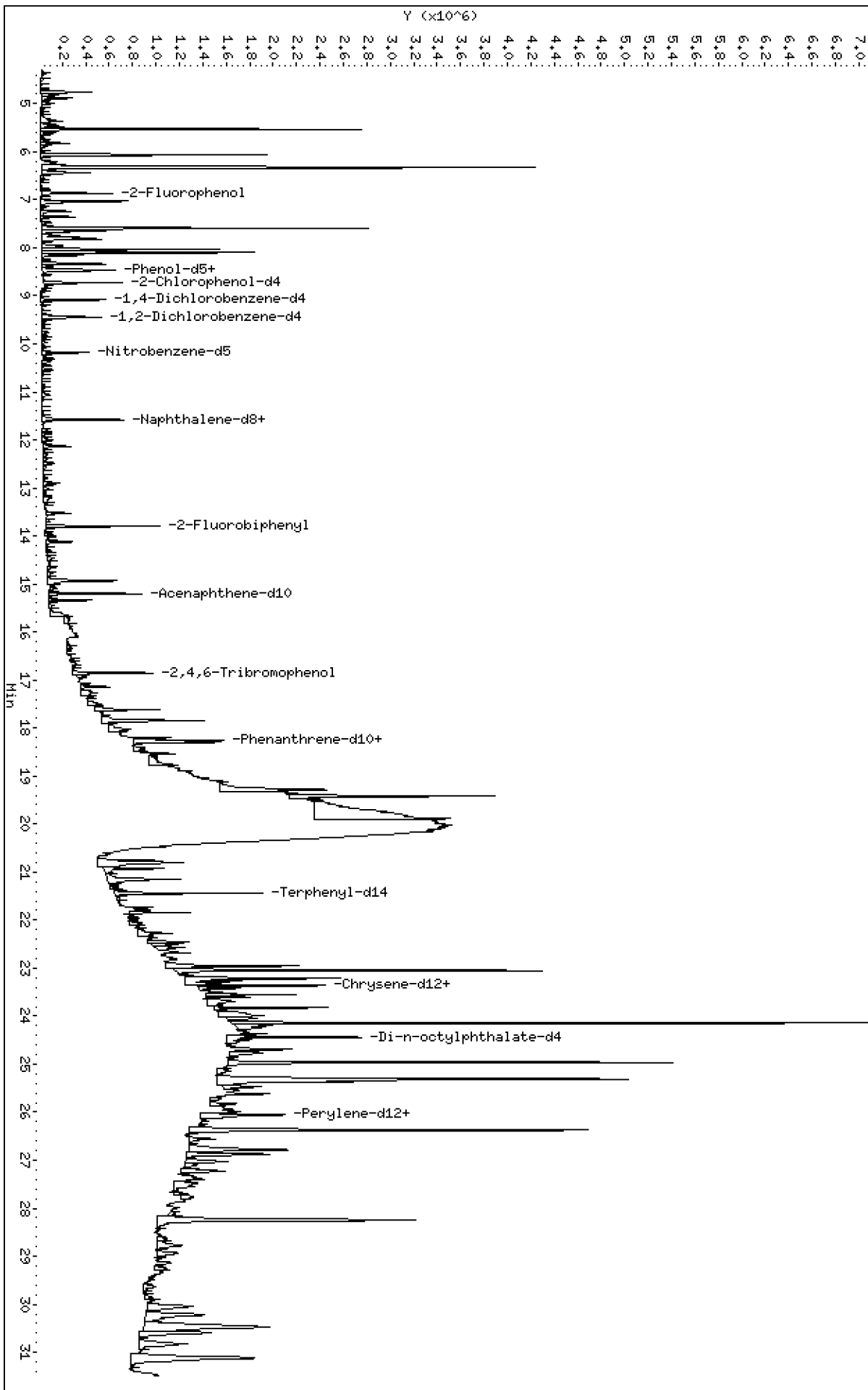
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

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Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

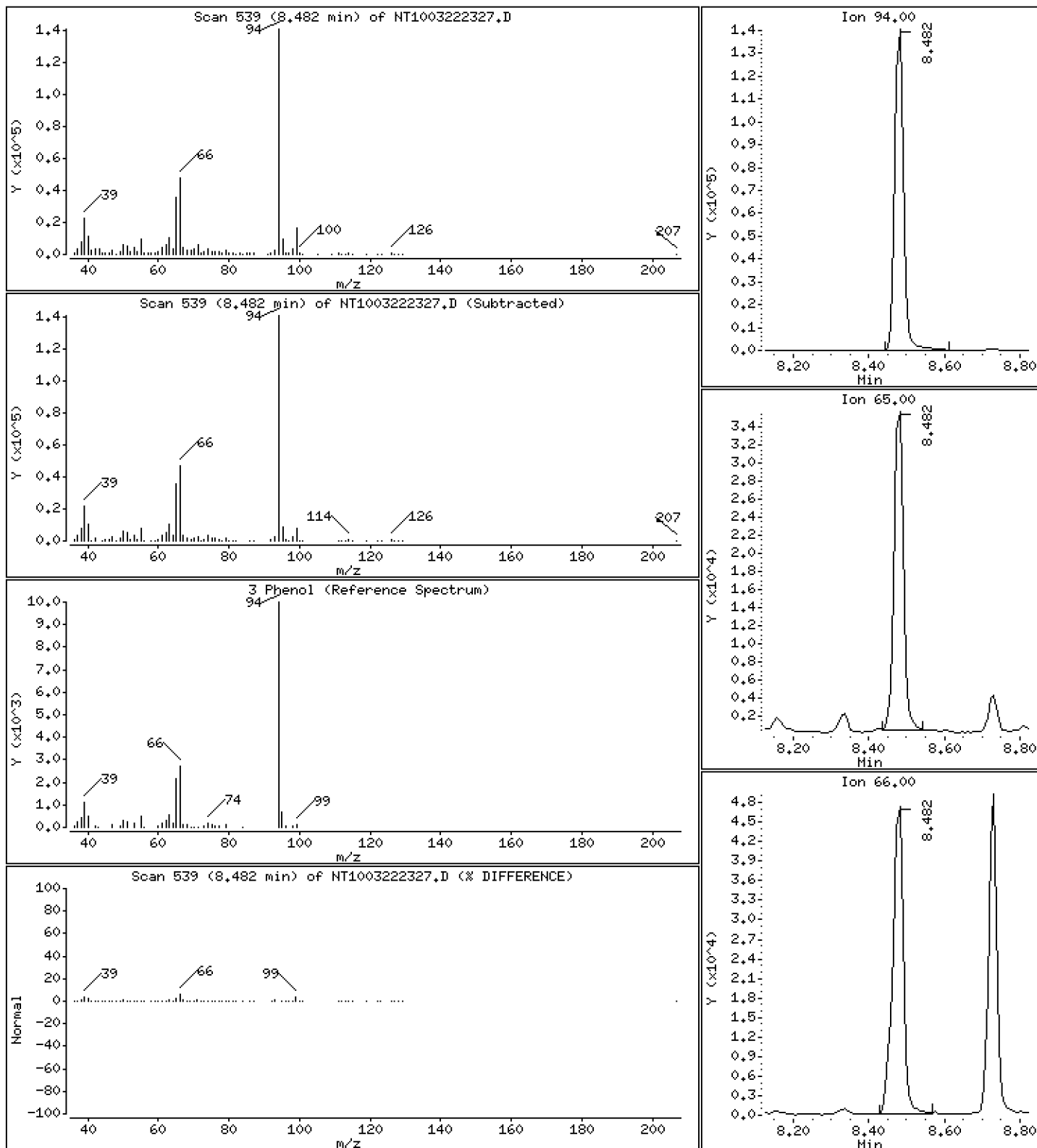
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 3,333 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

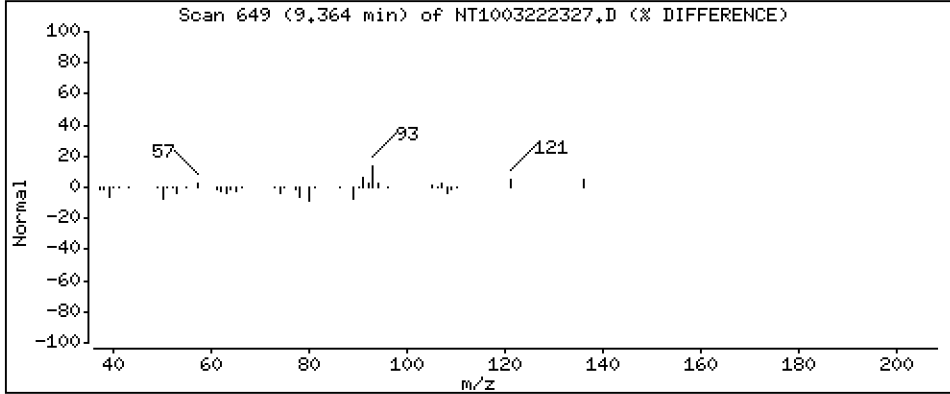
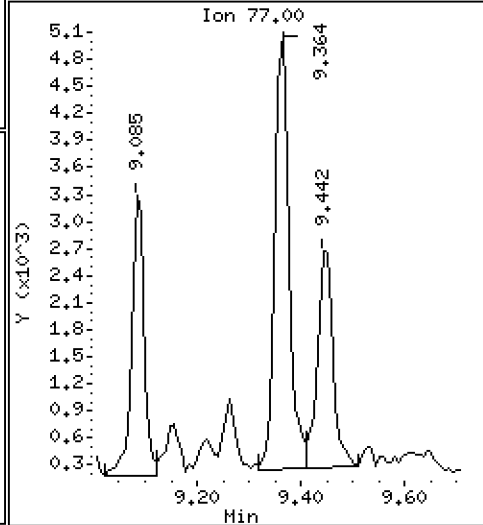
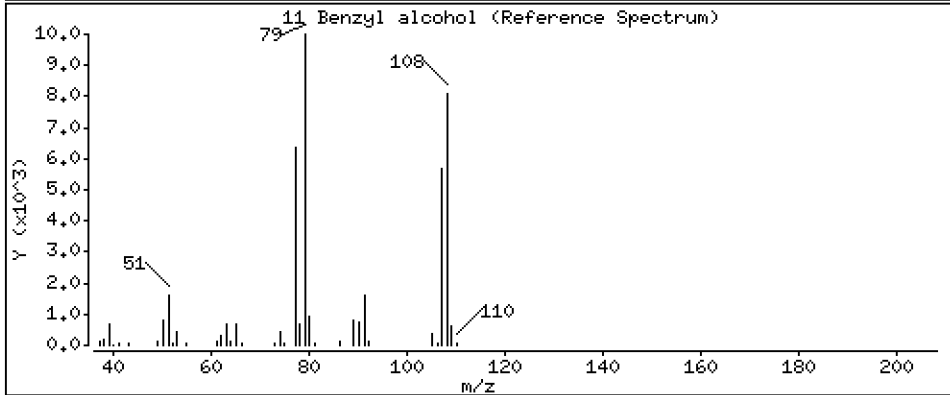
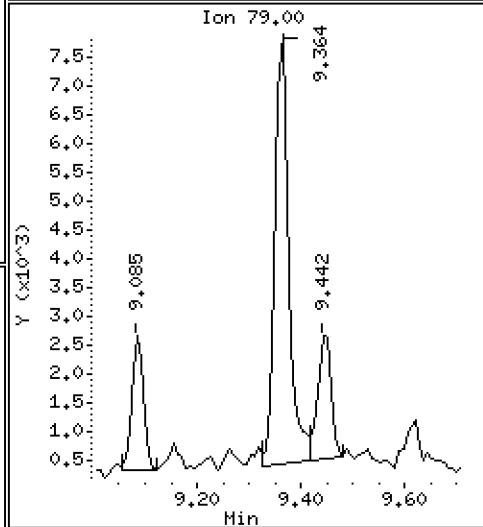
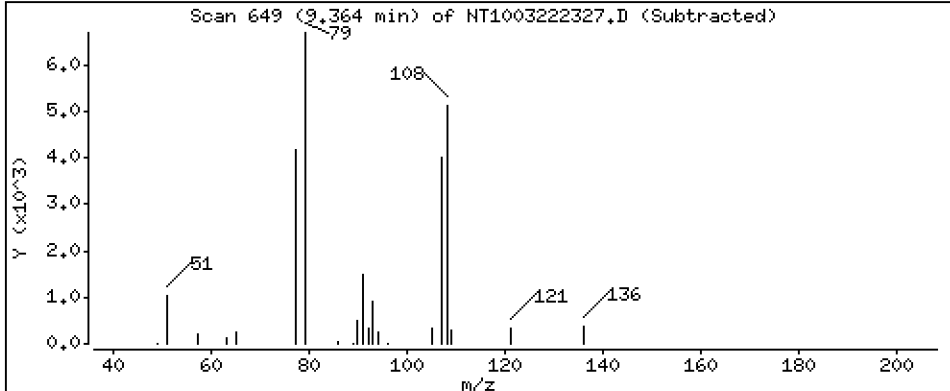
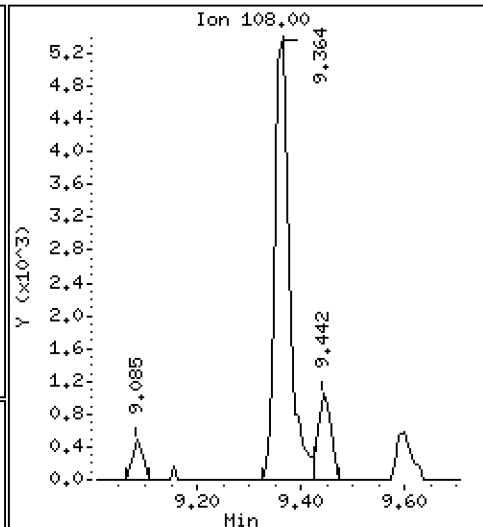
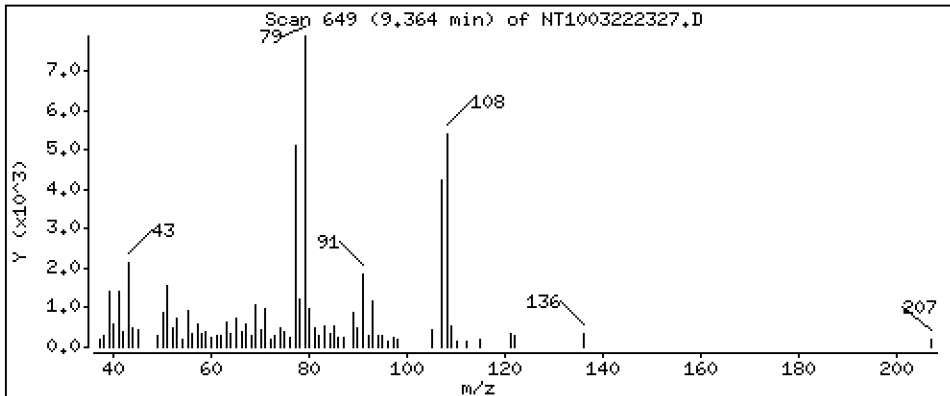
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.3353 ug/mL





Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

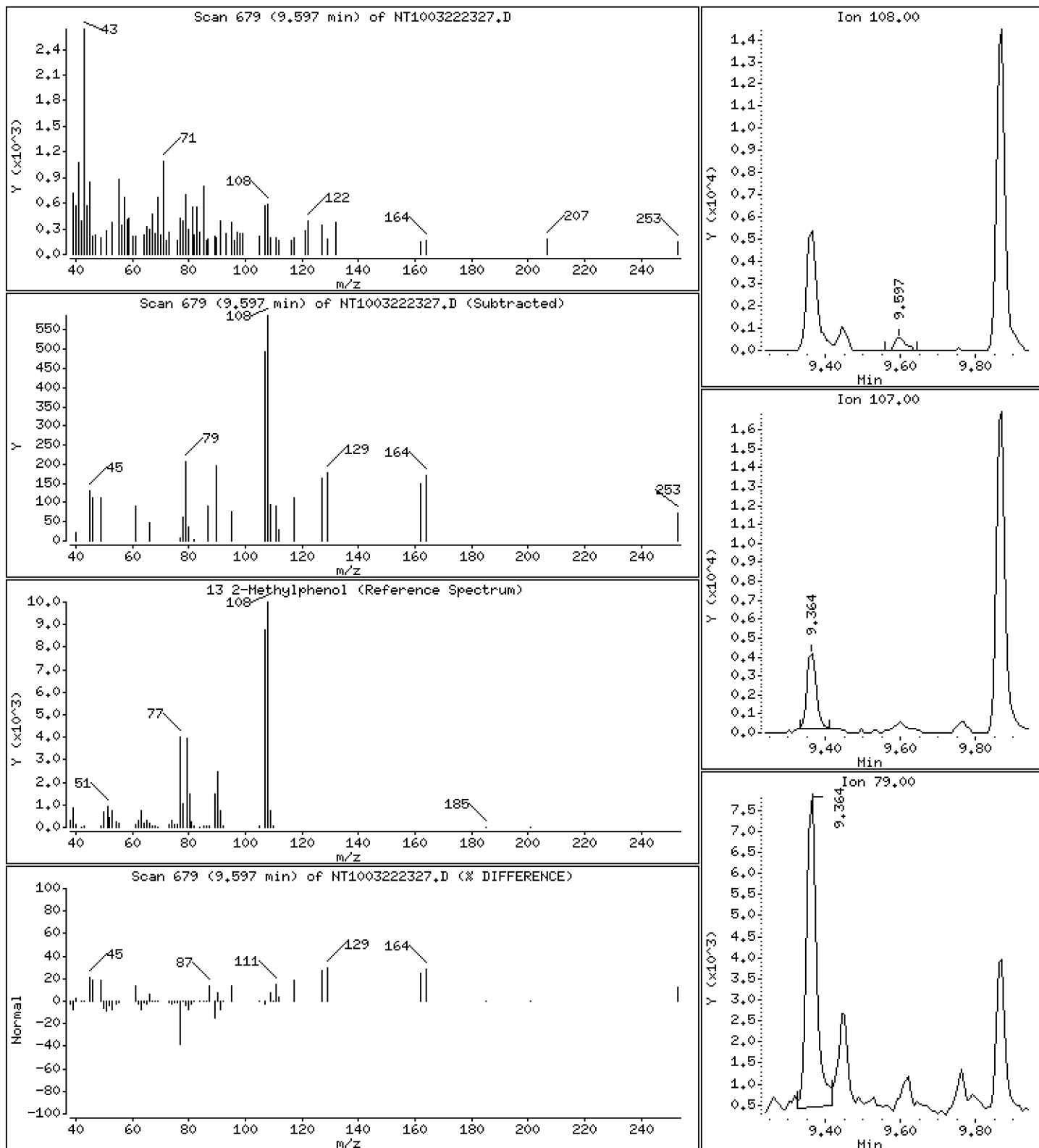
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 0,02362 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

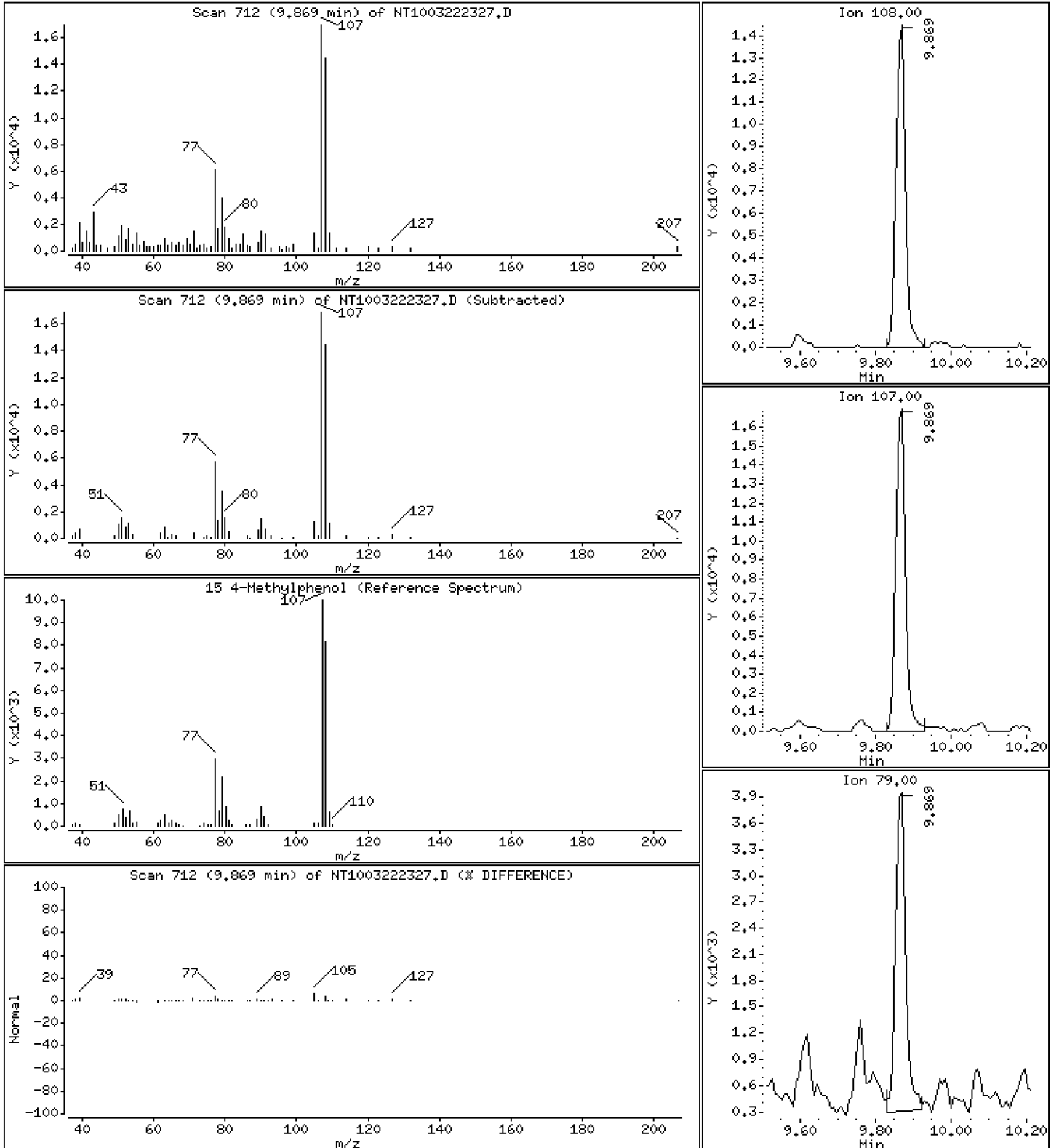
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.4874 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

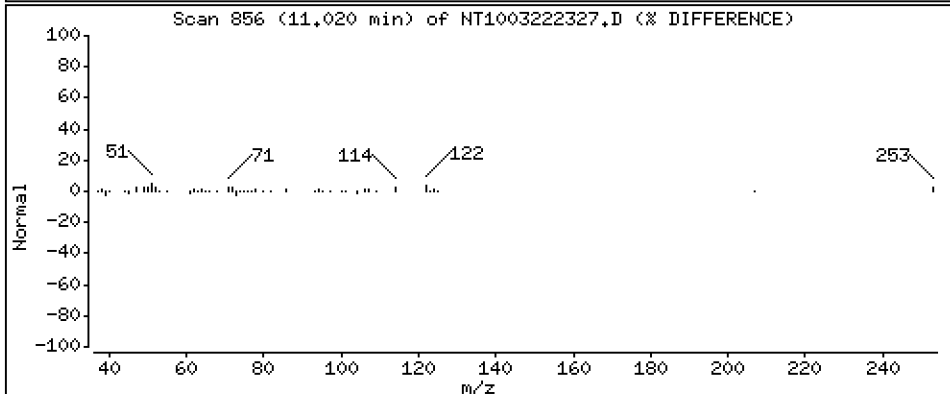
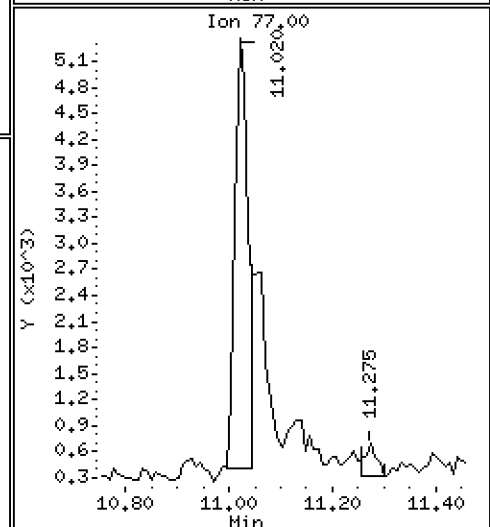
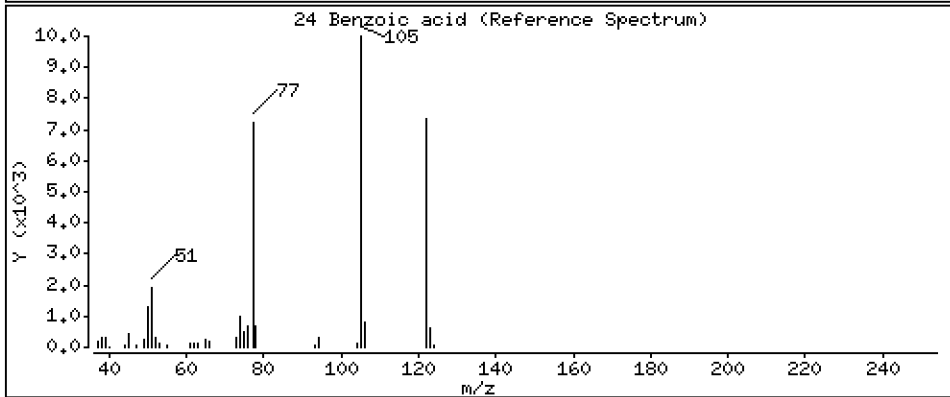
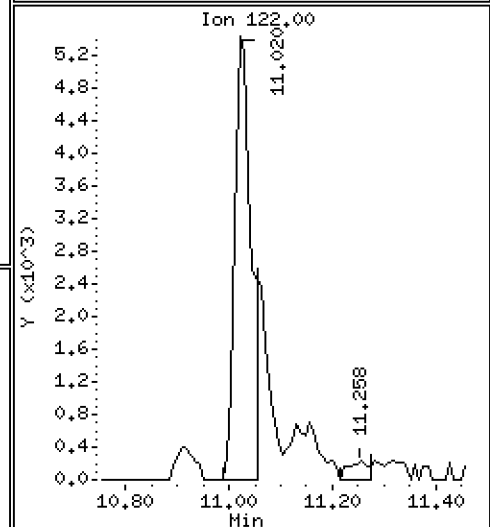
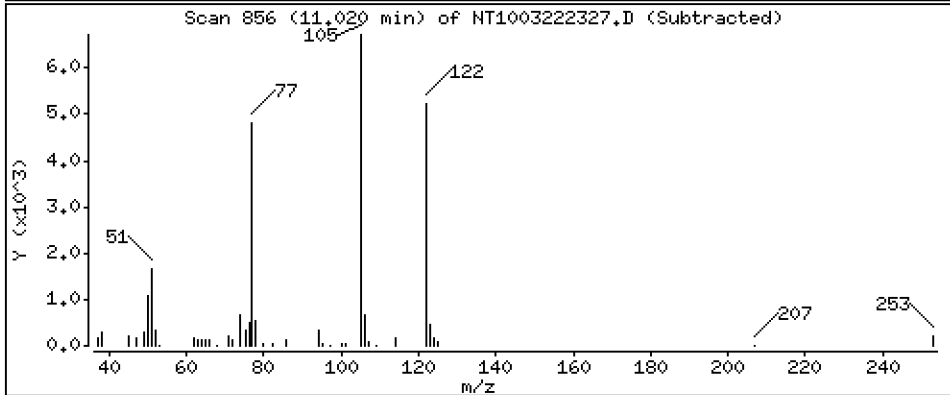
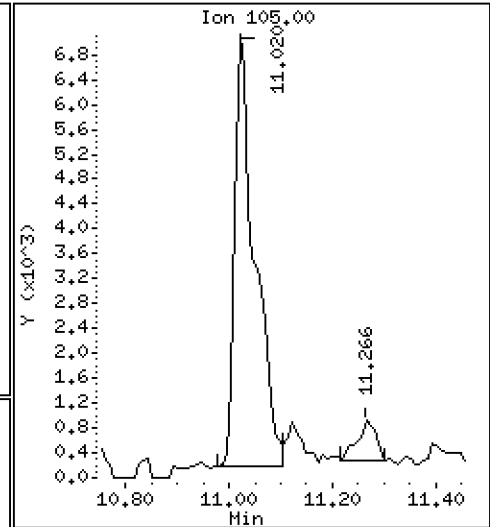
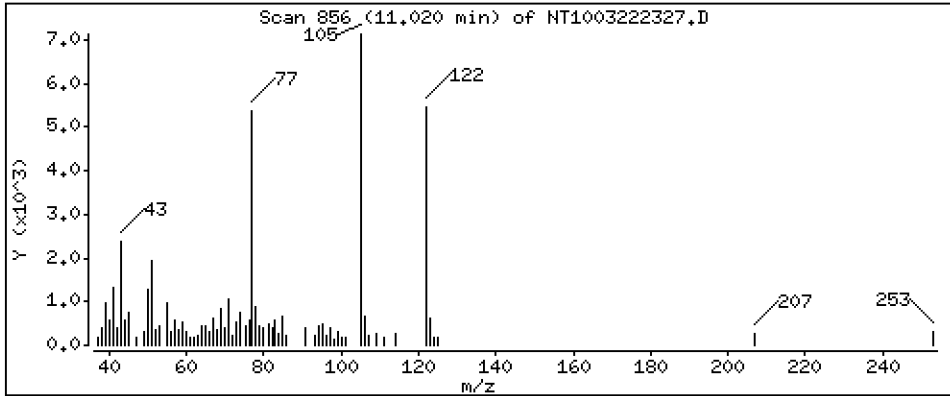
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.6580 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

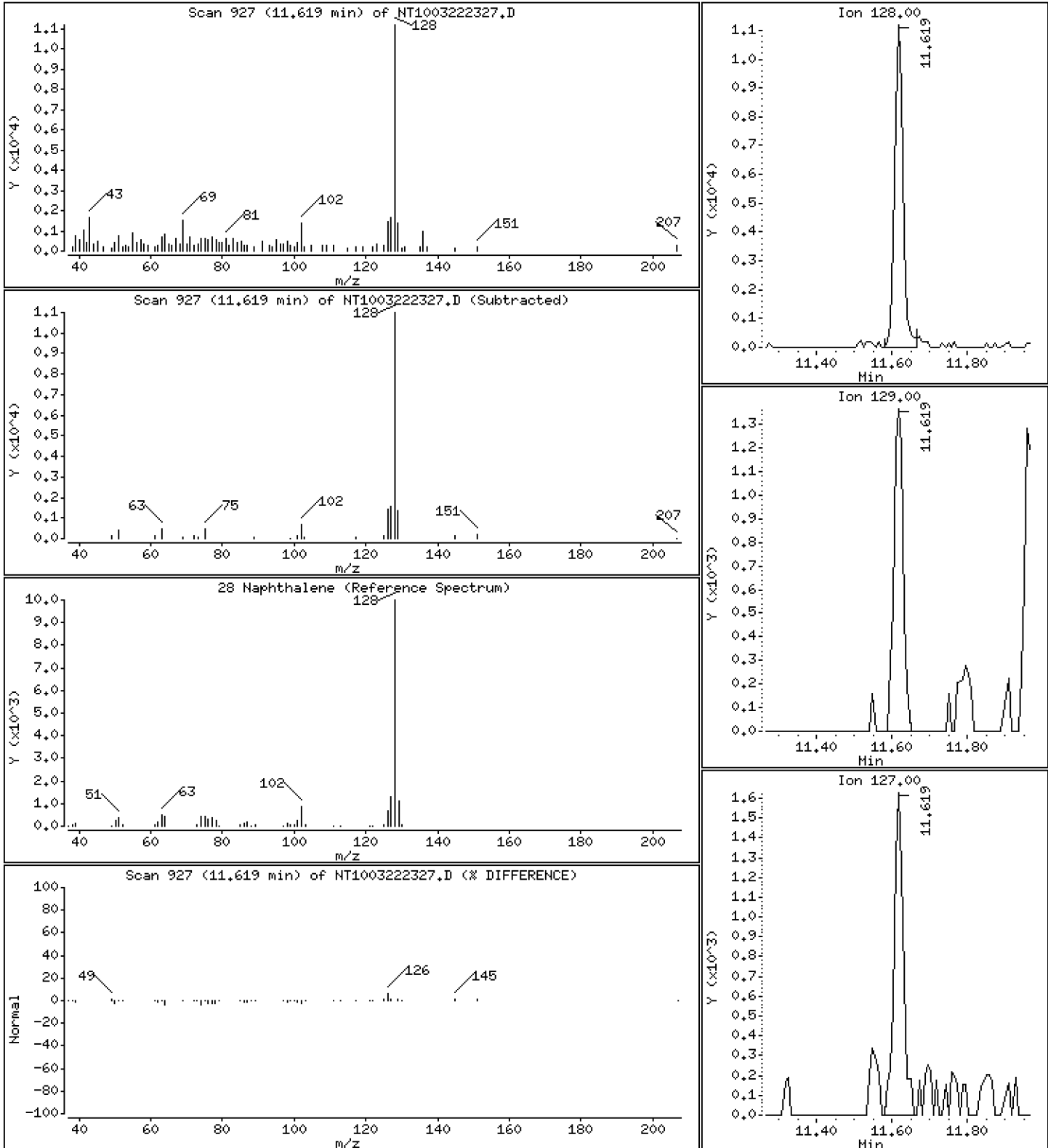
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,1190 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

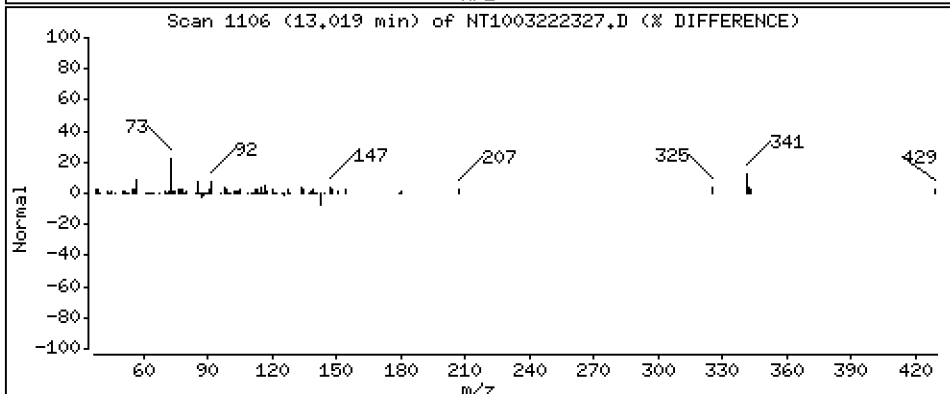
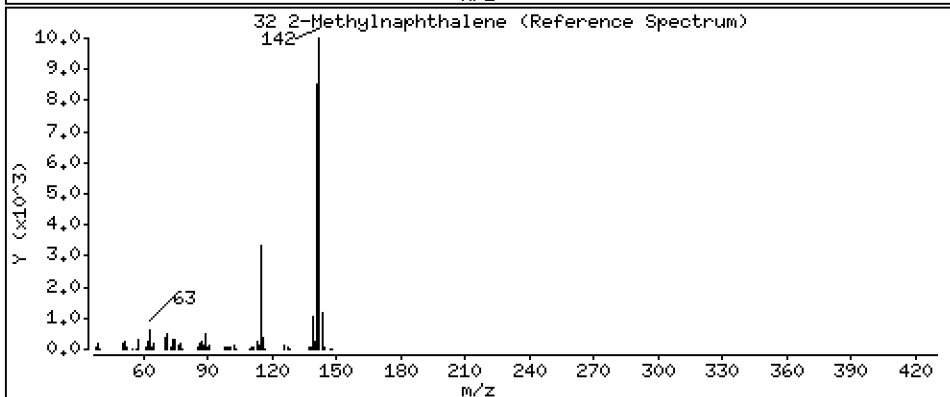
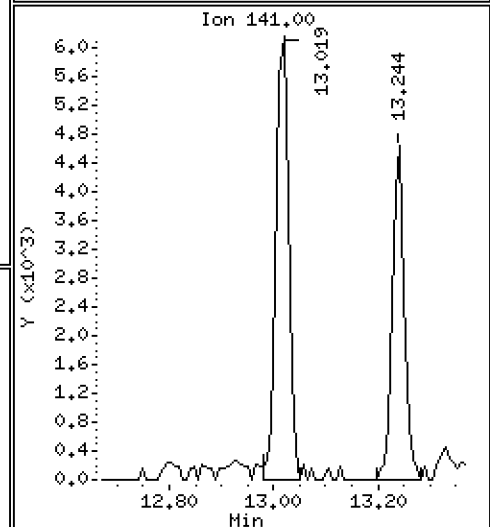
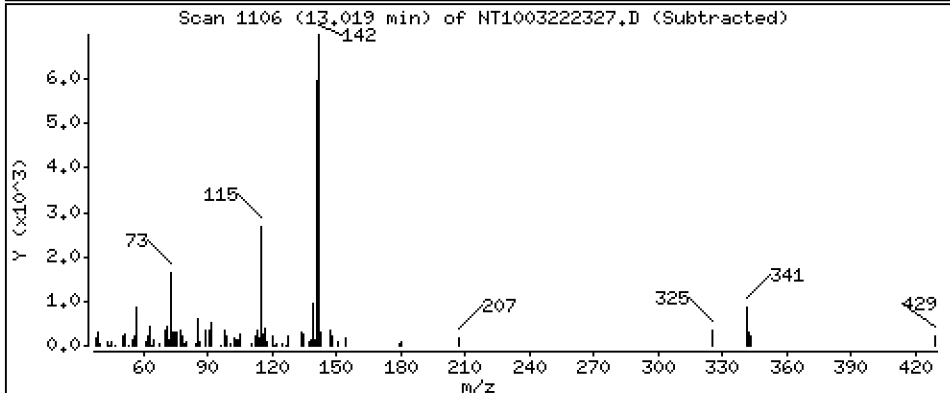
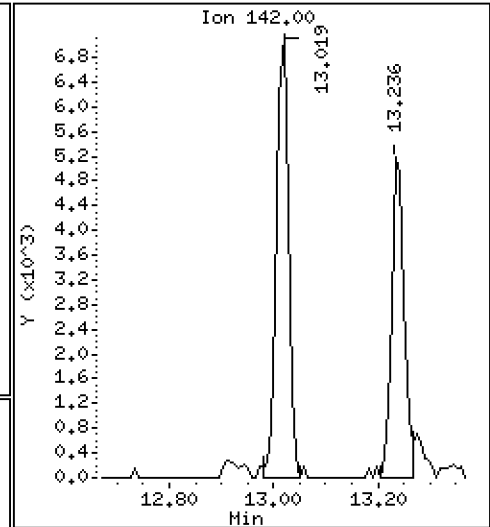
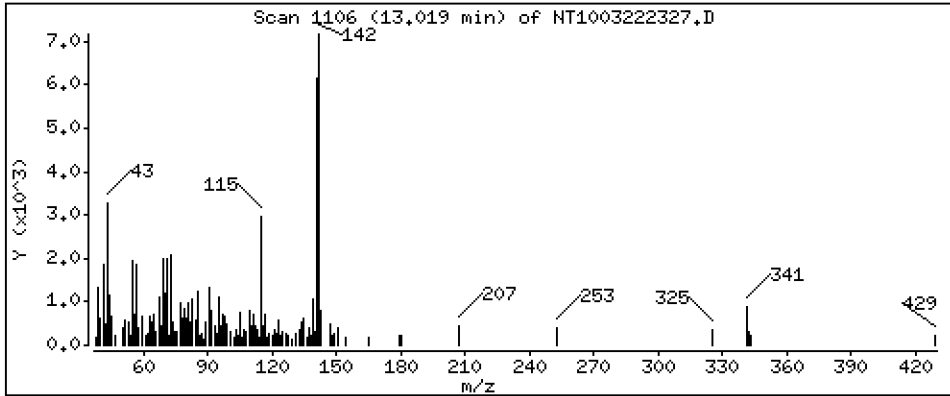
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1002 ug/mL



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Sample Info: 23A0179-11RE1

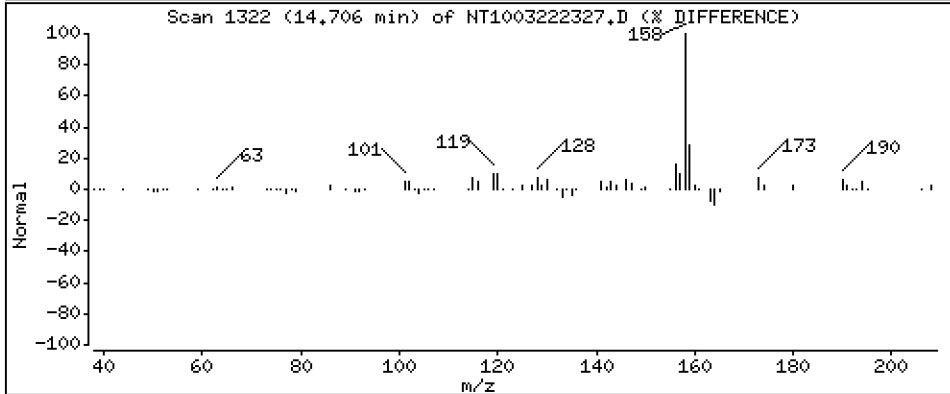
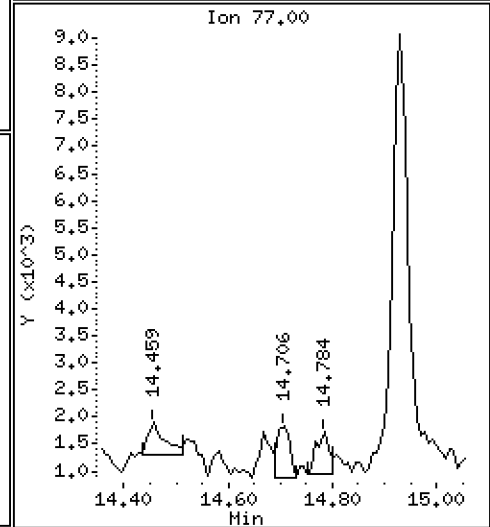
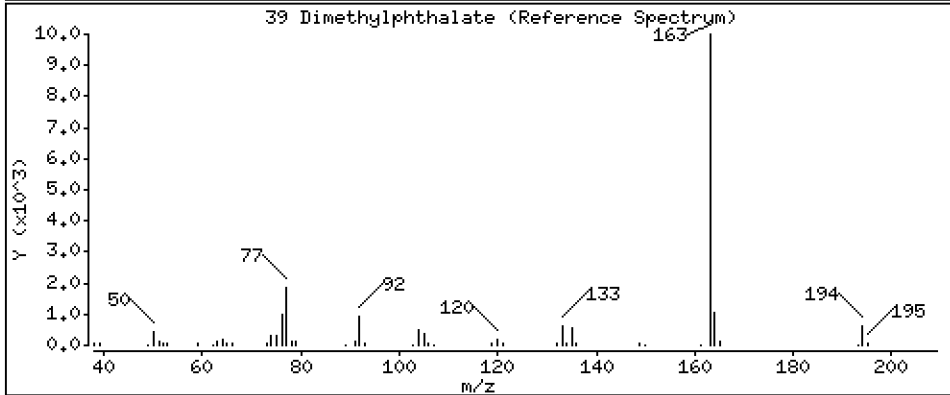
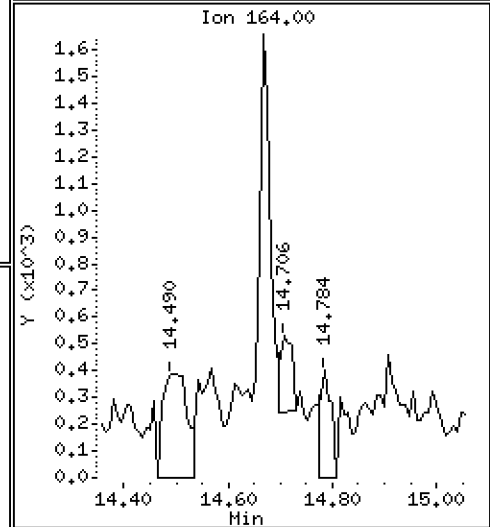
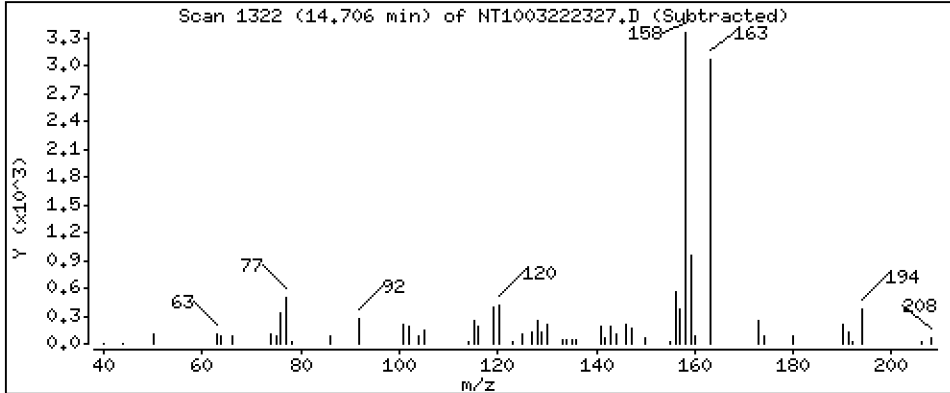
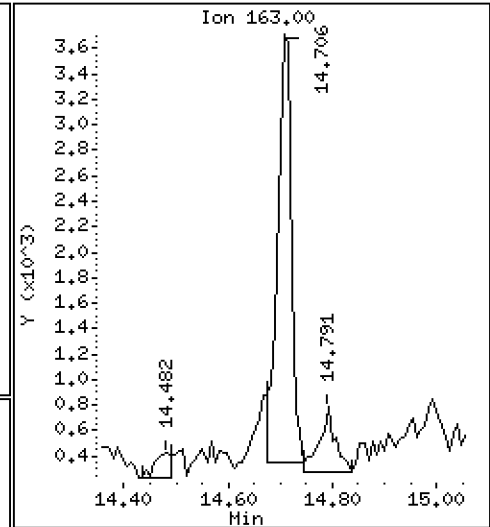
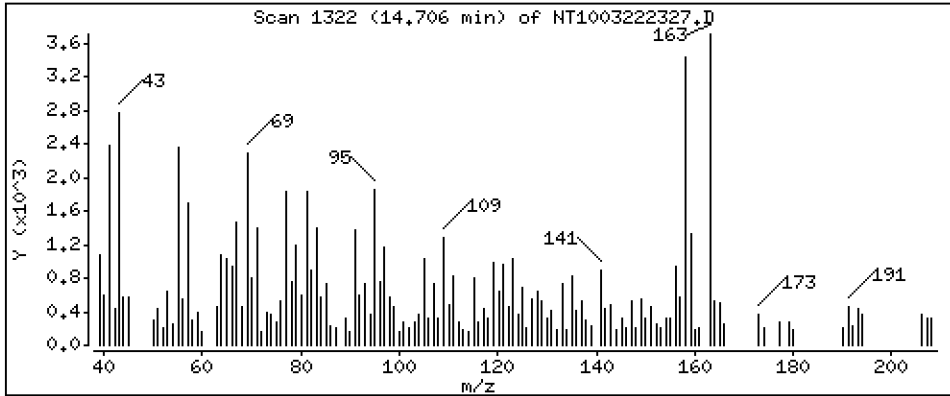
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

39 Dimethylphthalate

Concentration: 0.05893 ug/mL



Date : 23-MAR-2023 09:33

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Instrument: nt10.i

Sample Info: 23A0179-11RE1

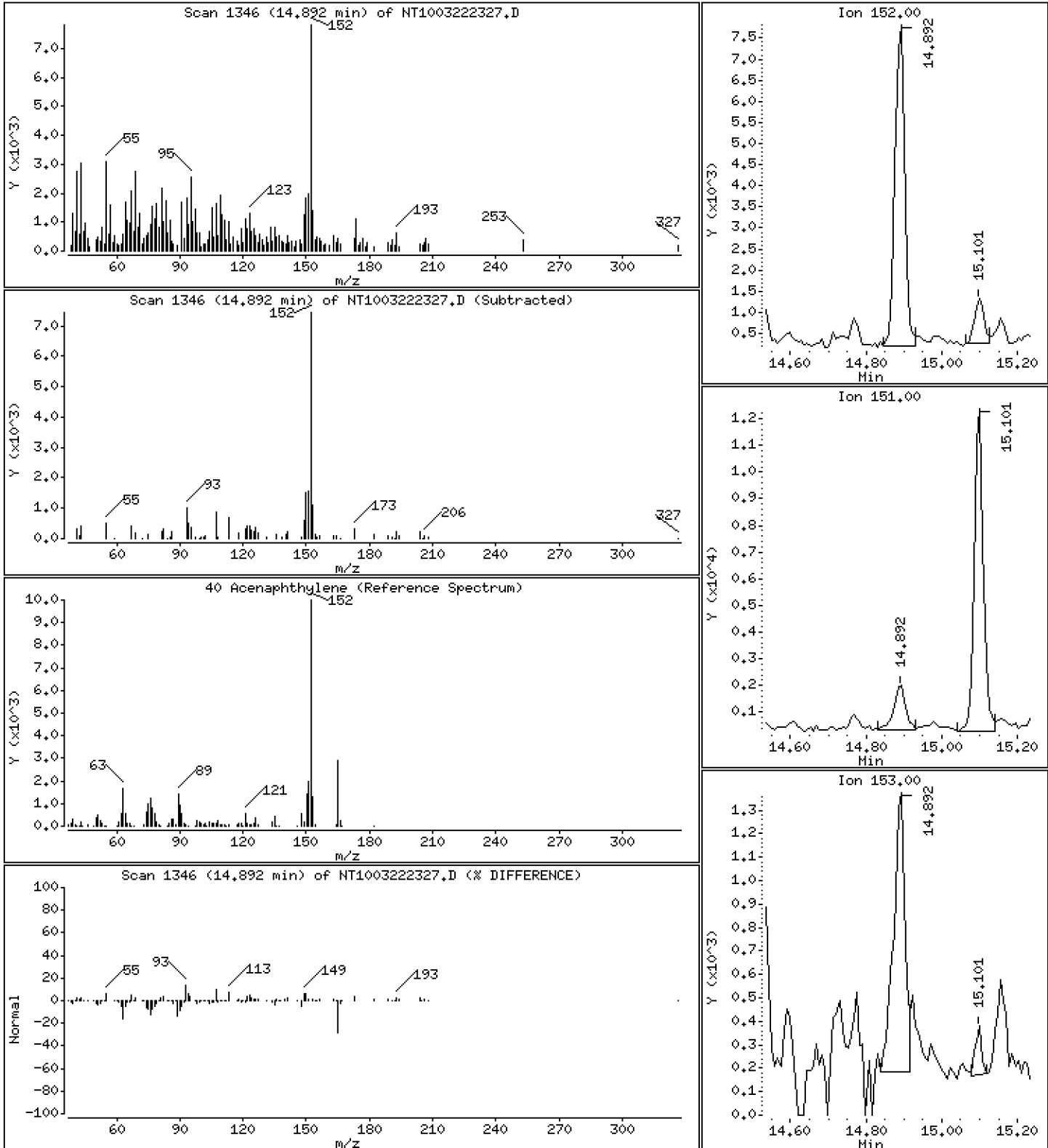
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,08328 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

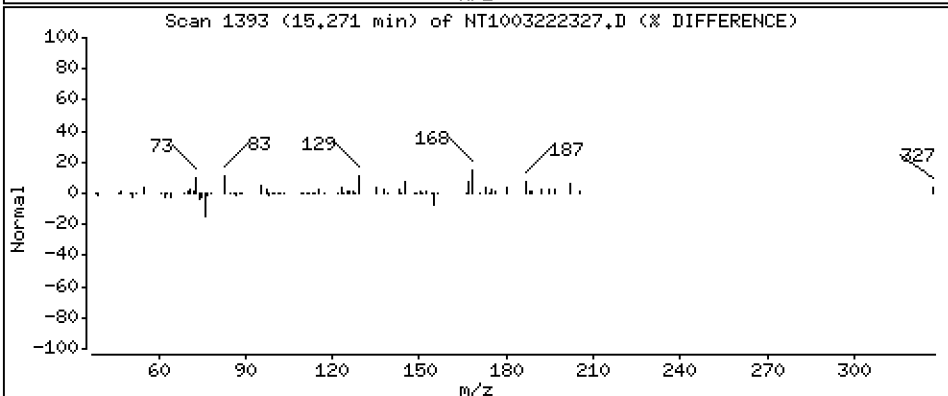
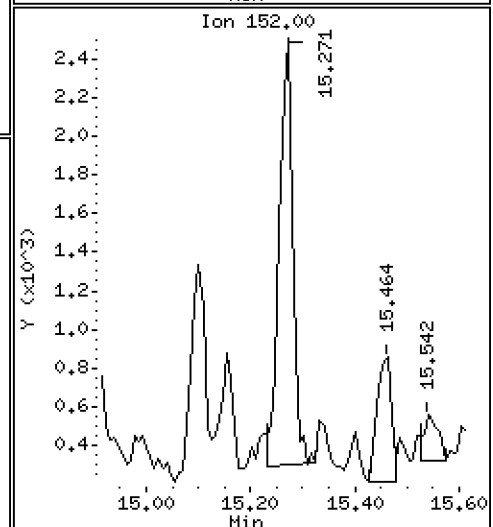
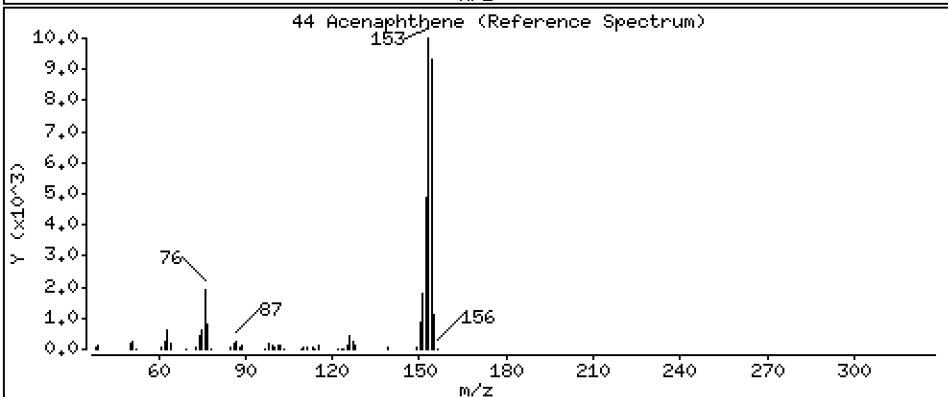
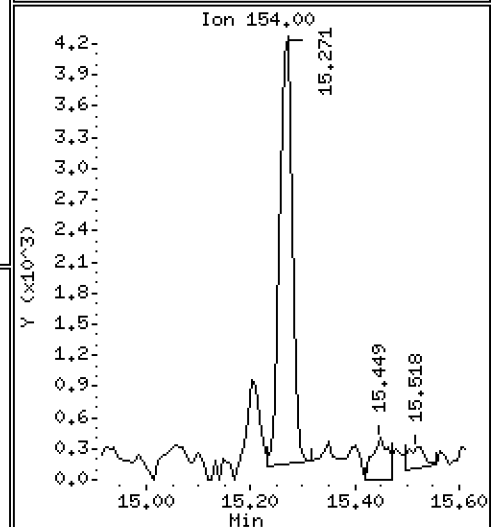
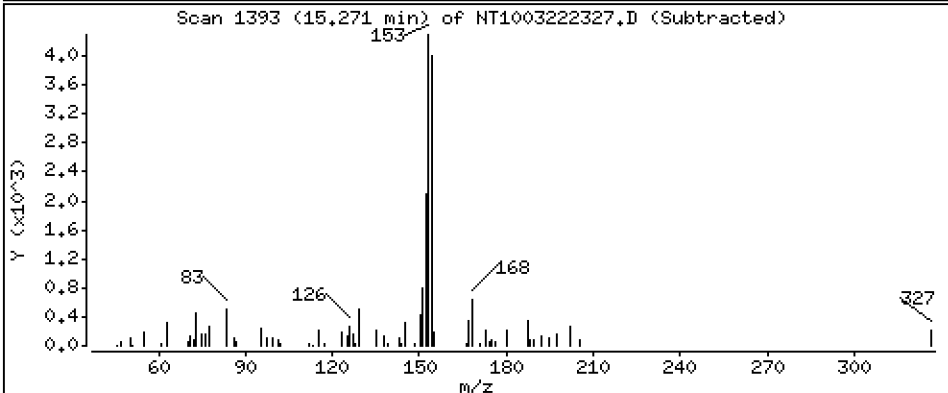
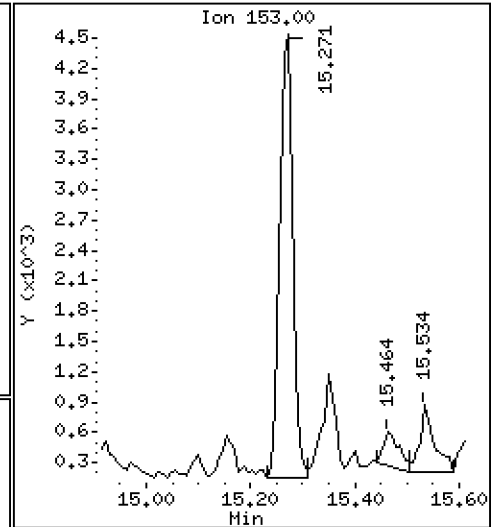
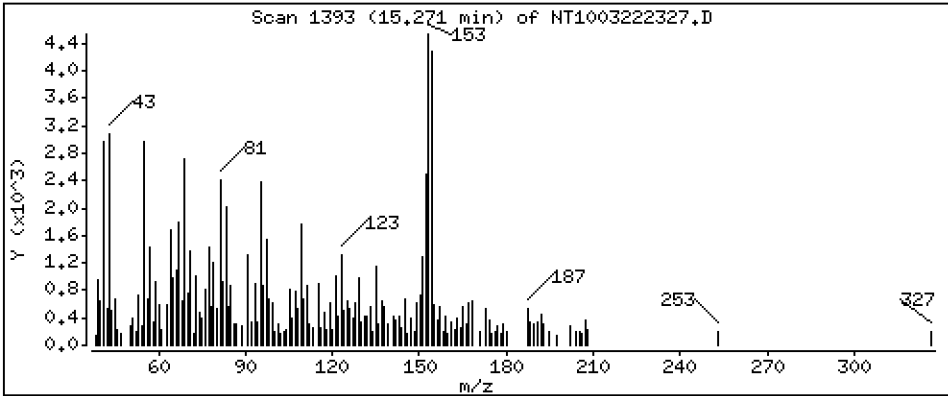
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 0.07578 ug/mL





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Instrument: nt10.i

Sample Info: 23A0179-11RE1

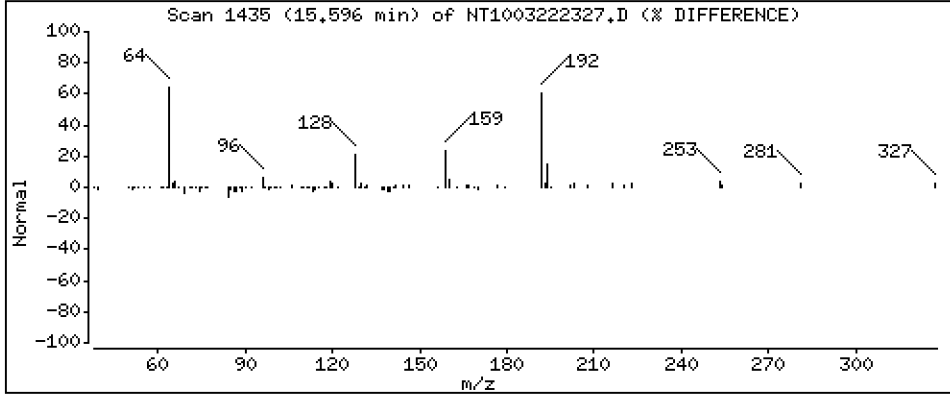
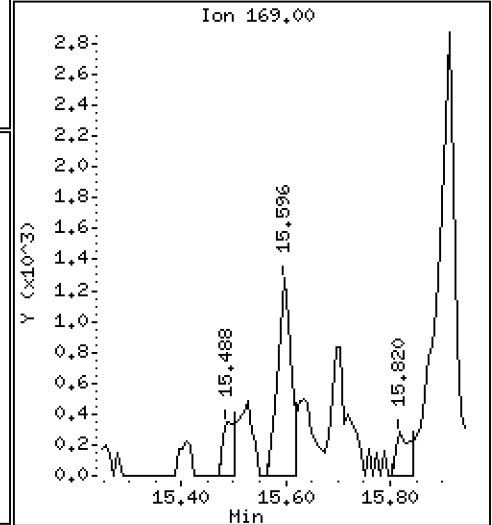
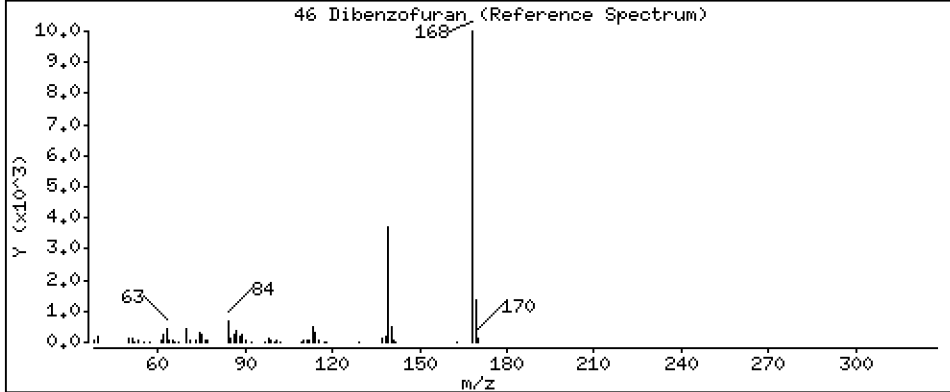
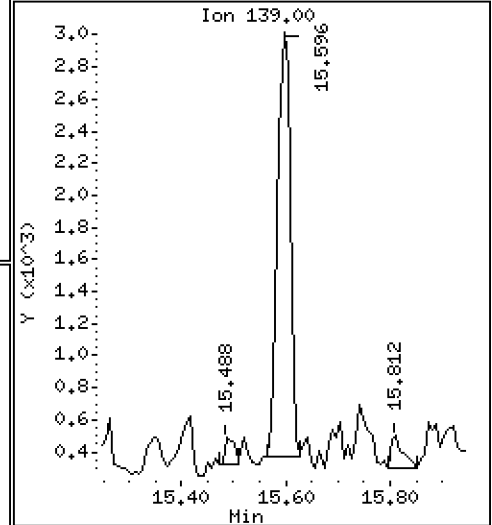
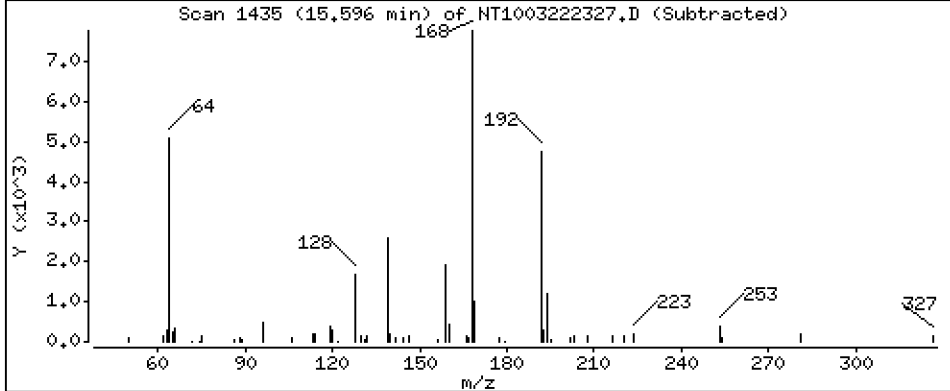
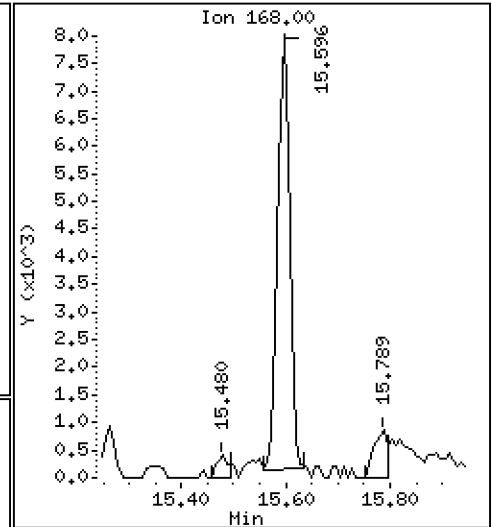
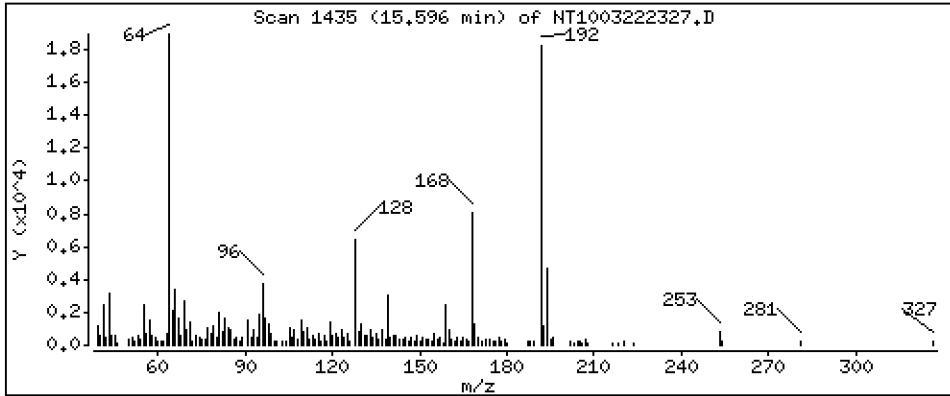
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,08328 ug/mL



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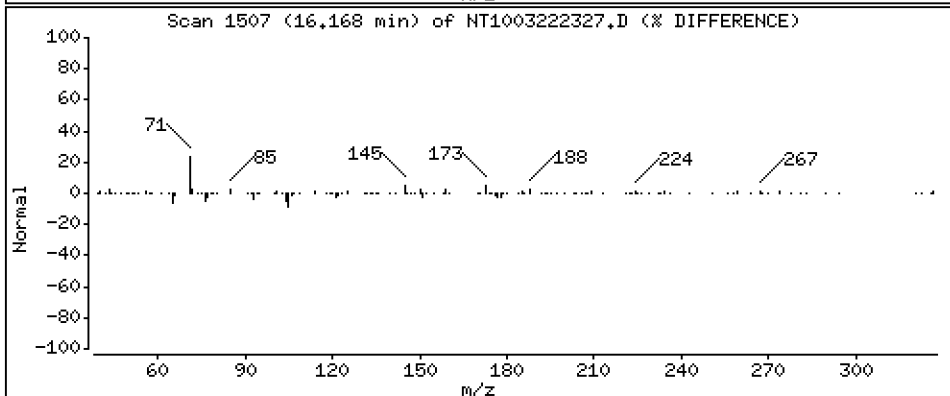
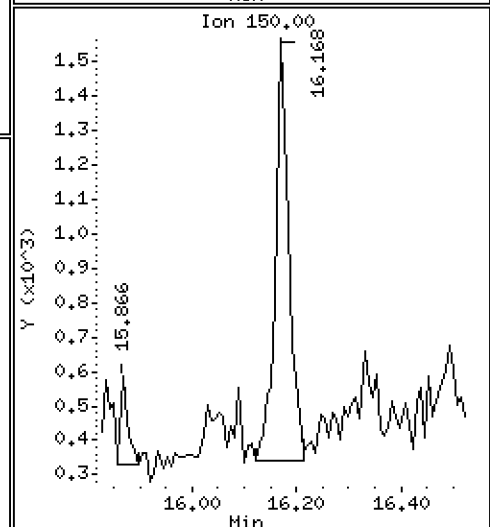
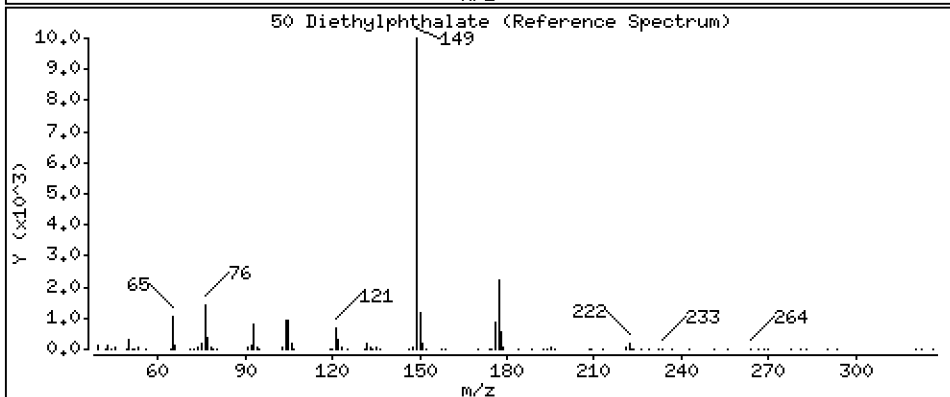
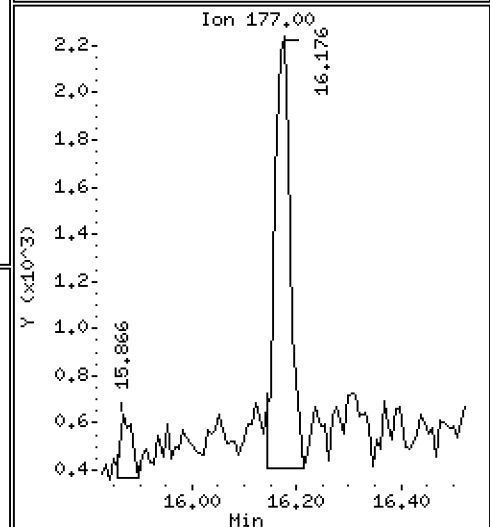
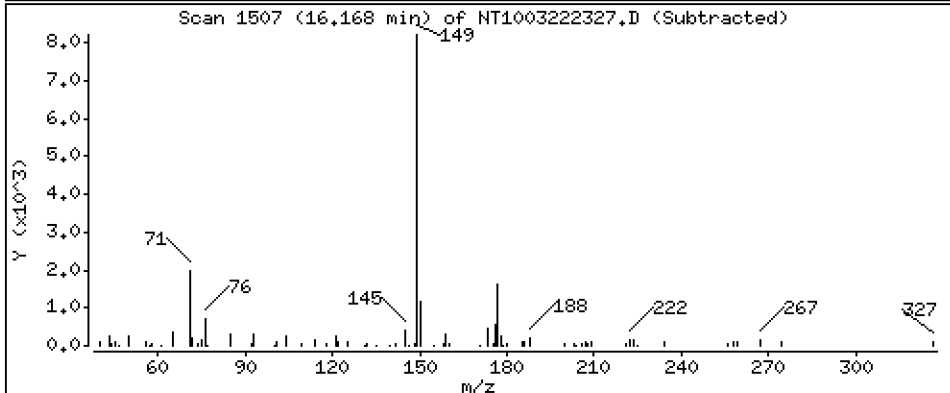
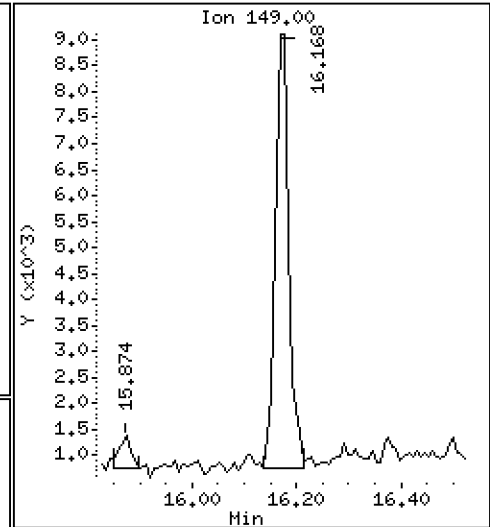
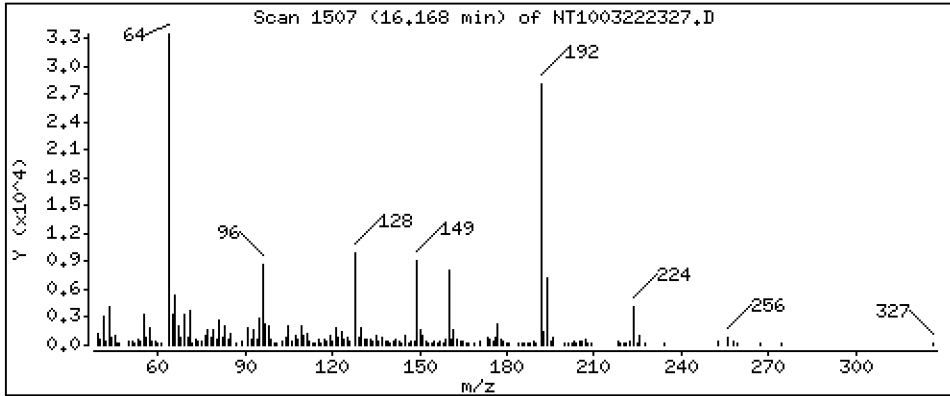
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,1683 ug/mL



Date : 23-MAR-2023 09:33

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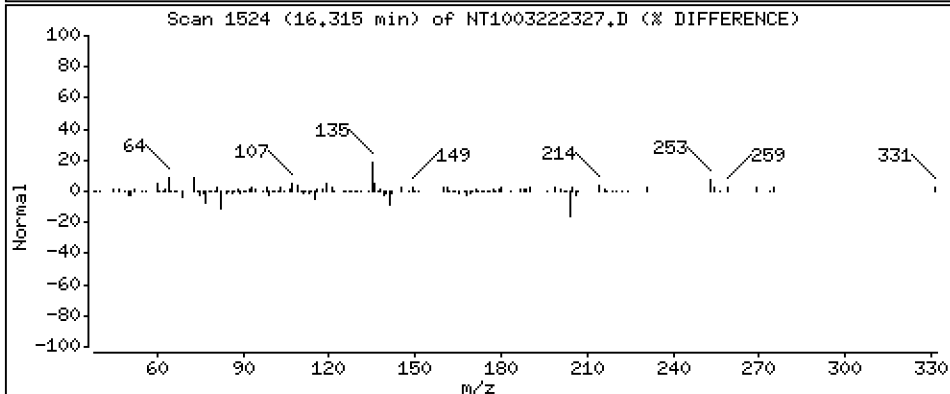
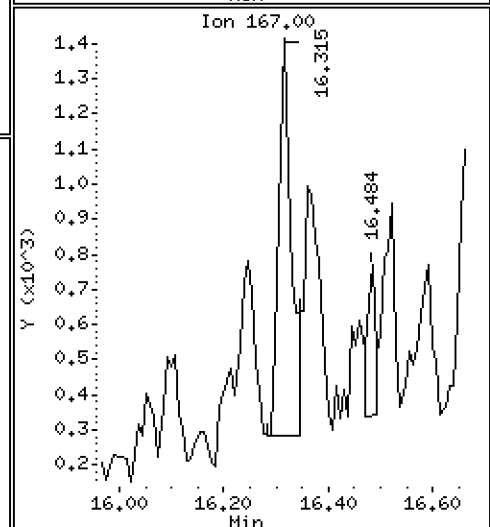
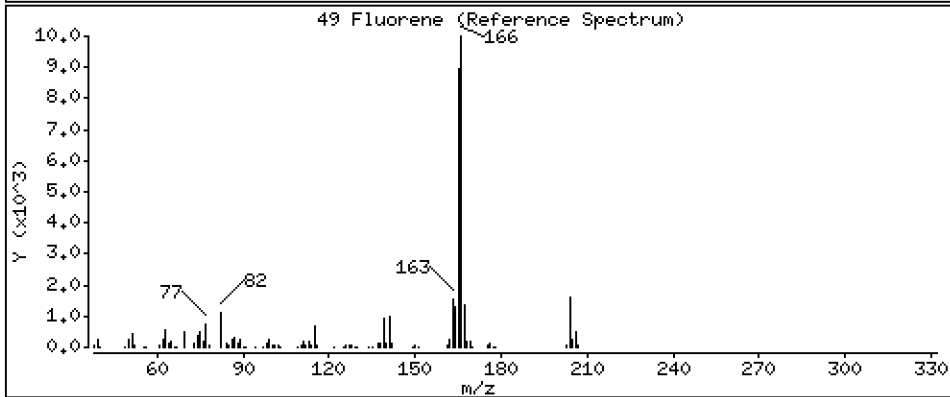
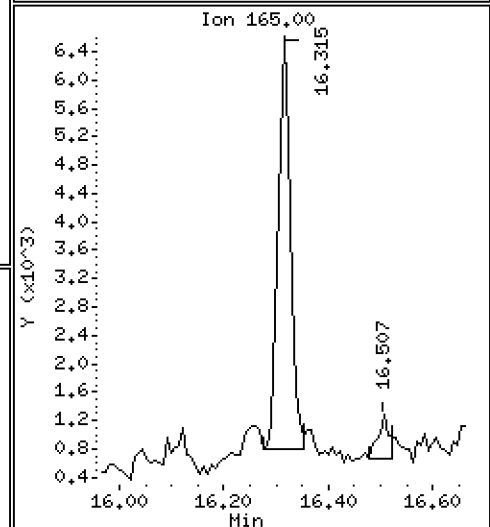
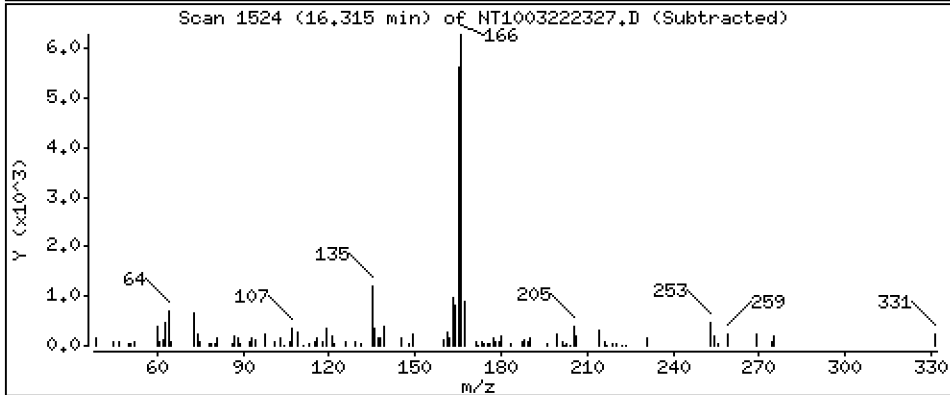
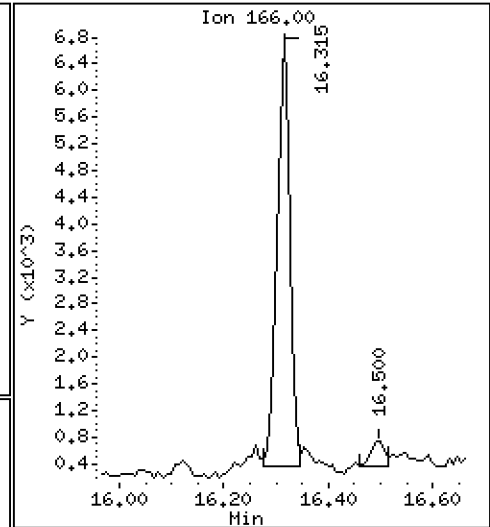
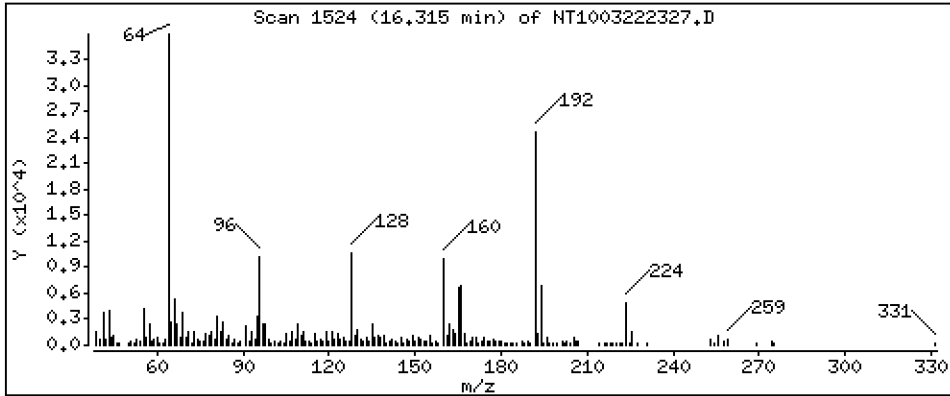
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 0.09425 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

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Sample Info: 23A0179-11RE1

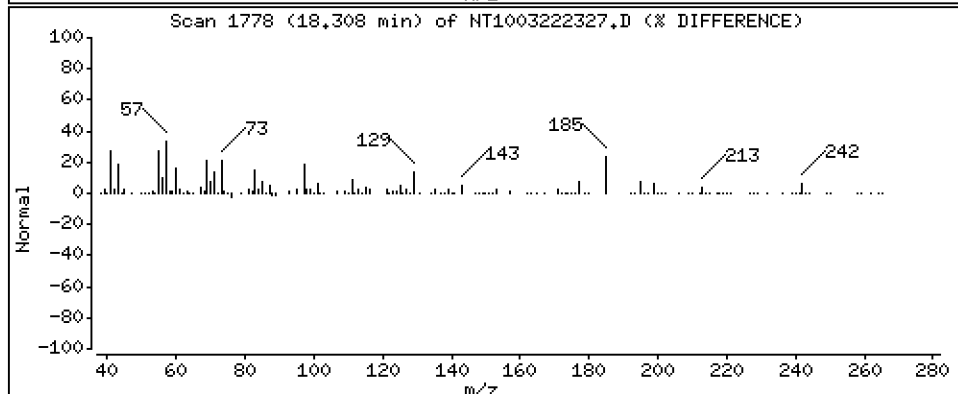
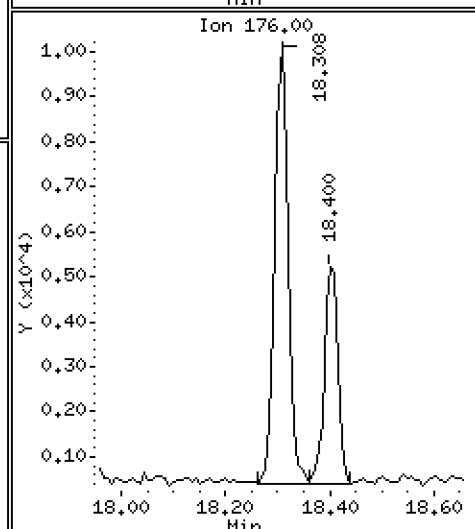
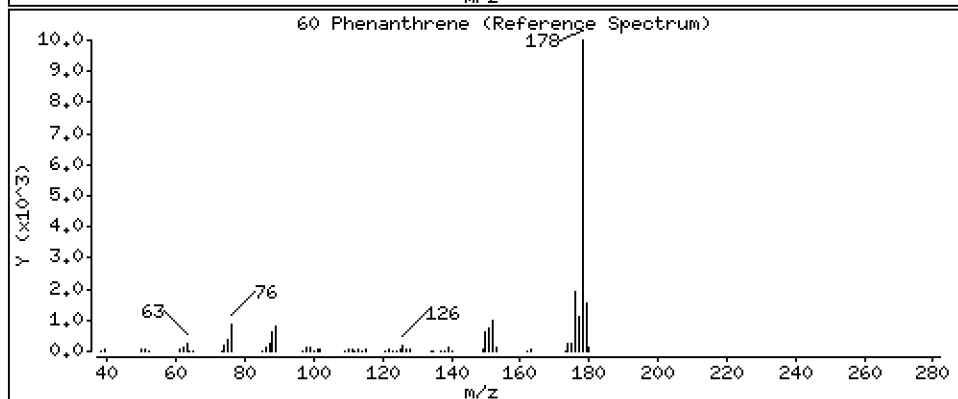
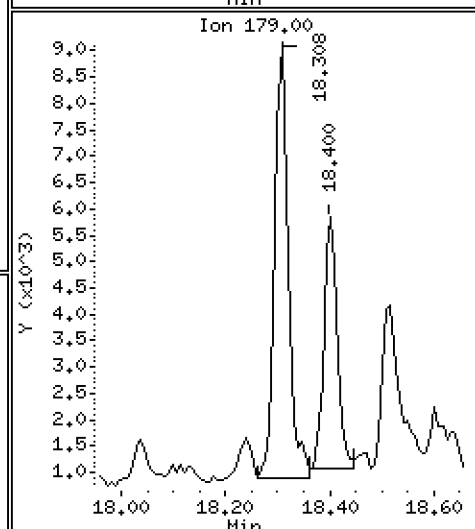
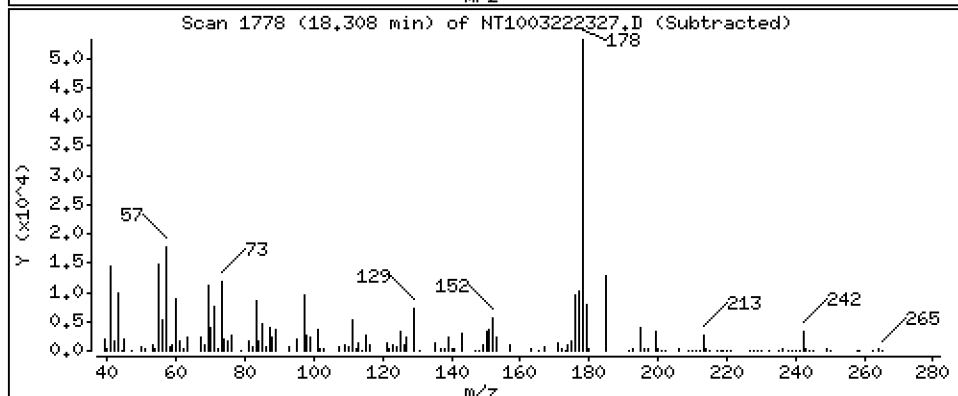
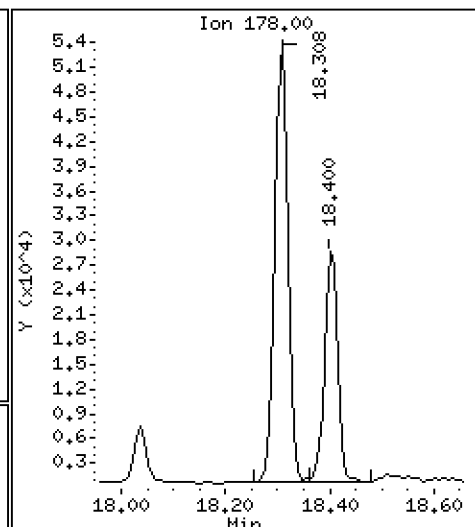
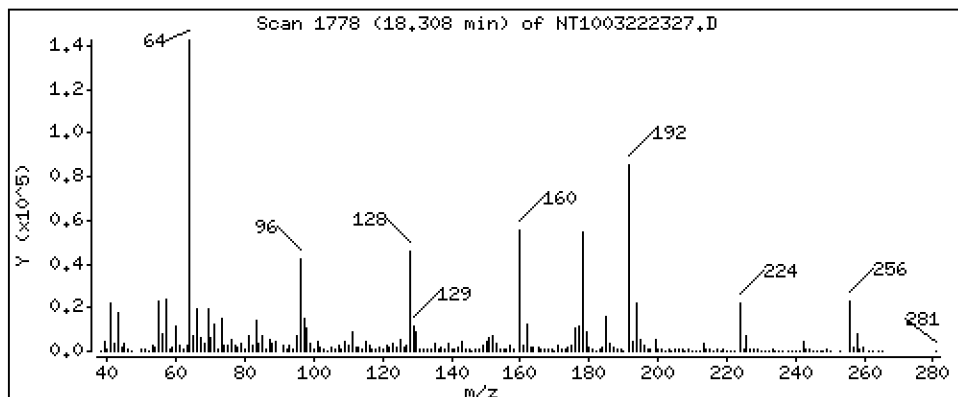
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,5330 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

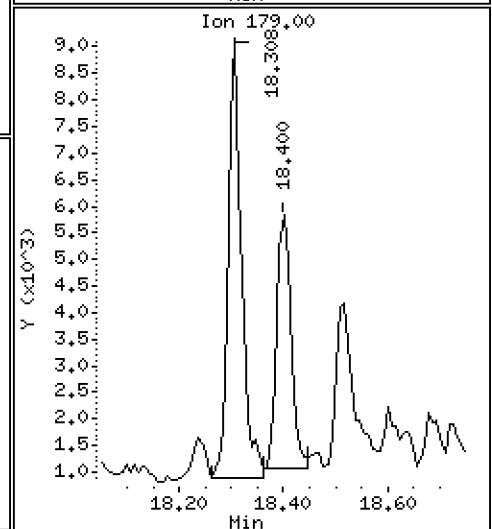
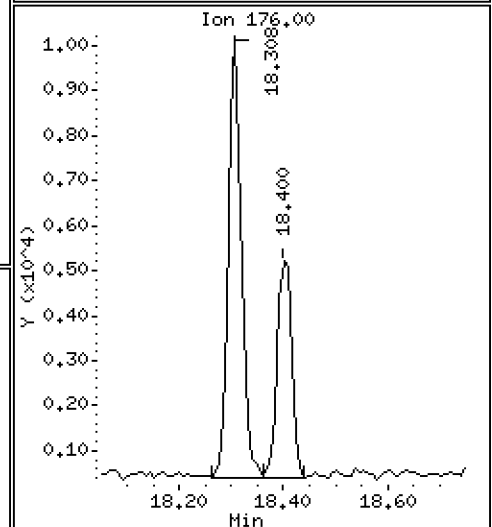
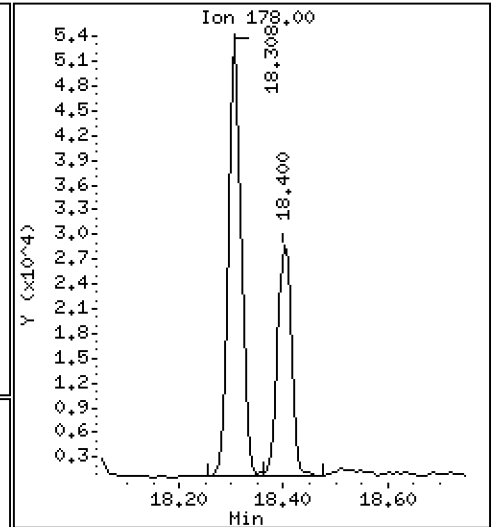
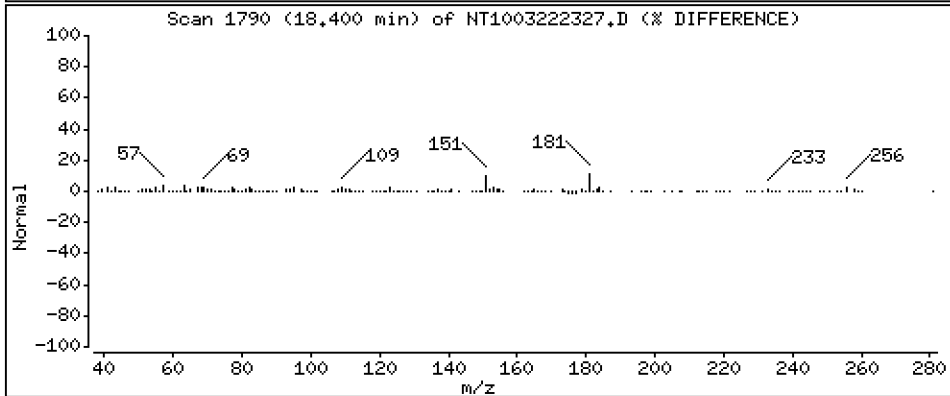
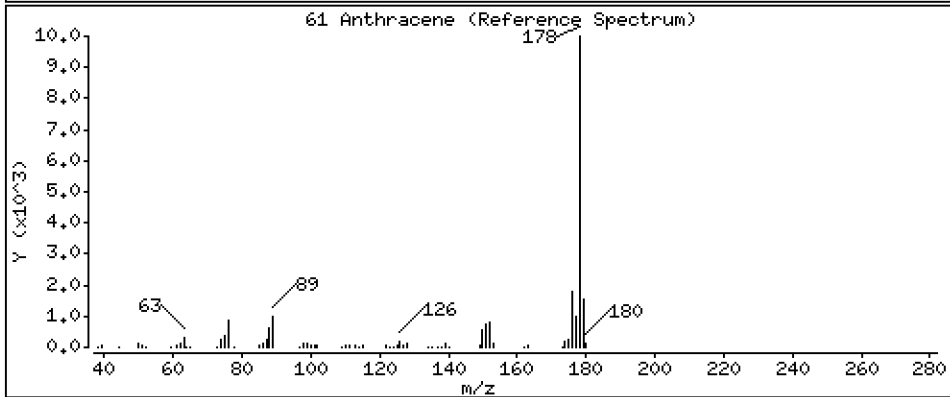
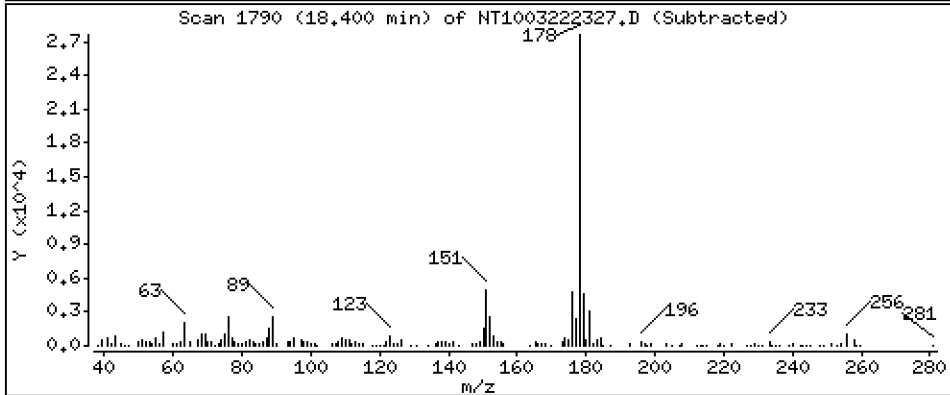
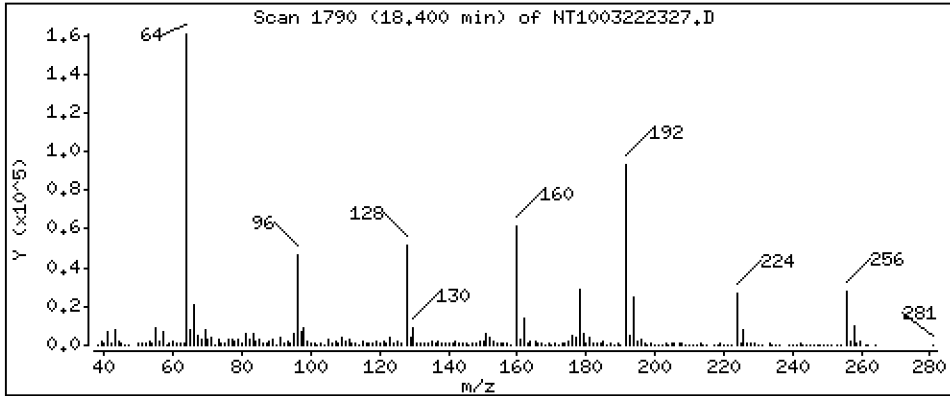
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,3150 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

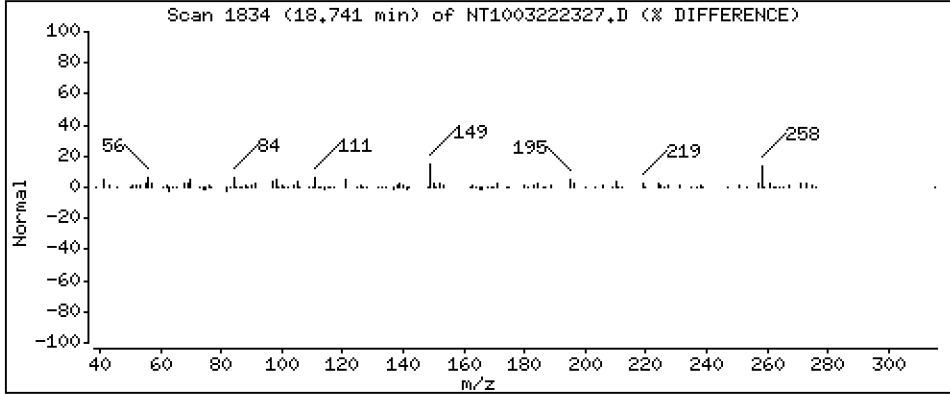
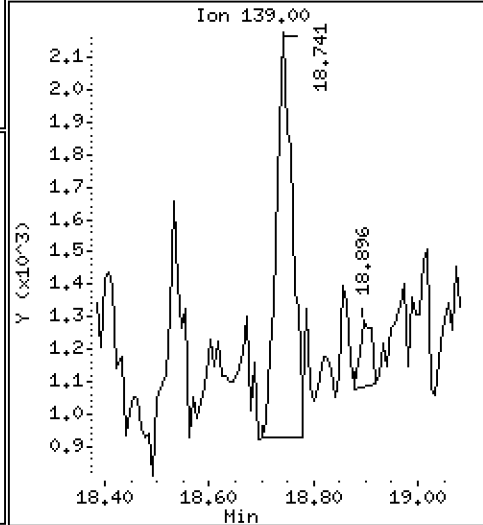
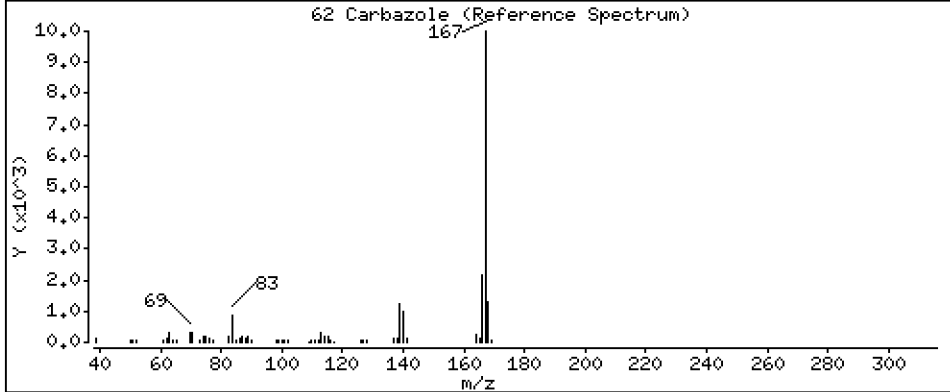
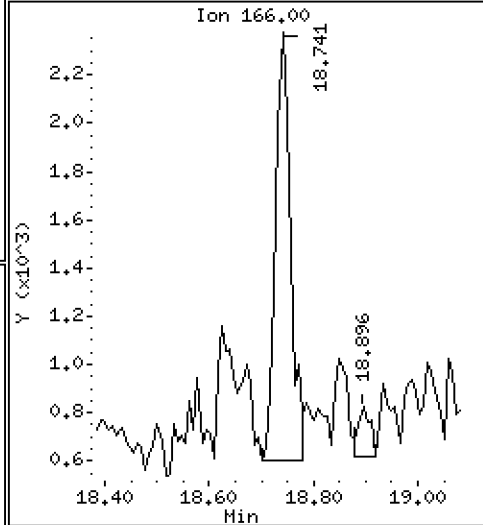
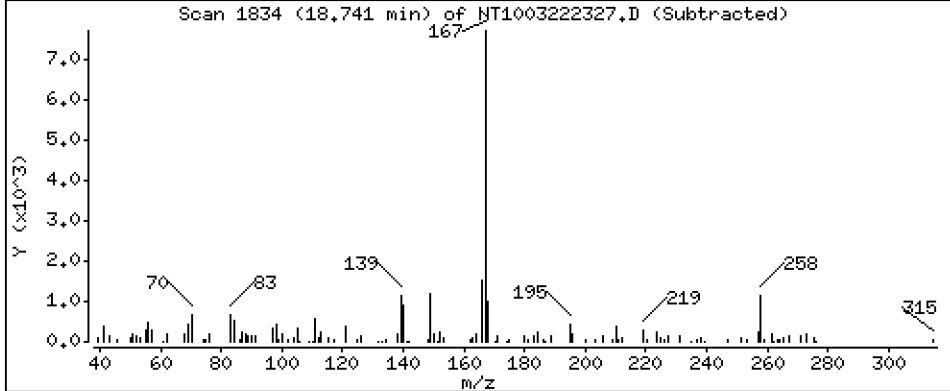
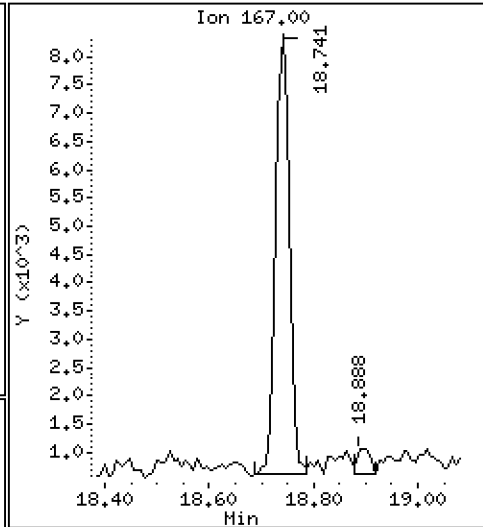
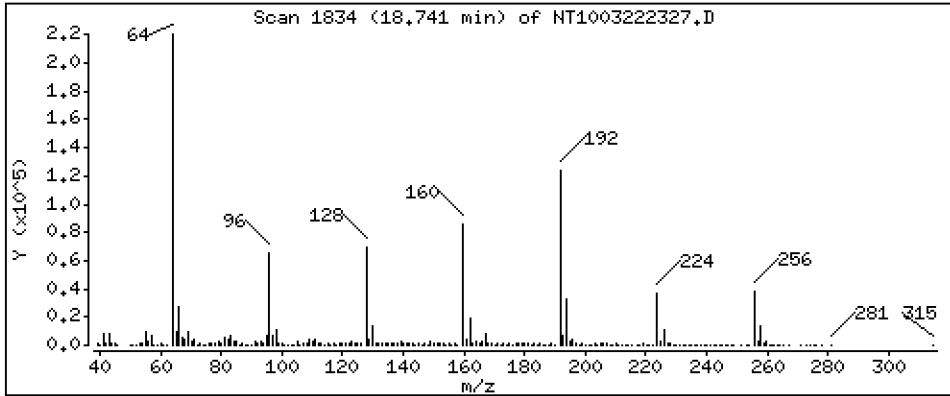
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

62 Carbazole

Concentration: 0.09662 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

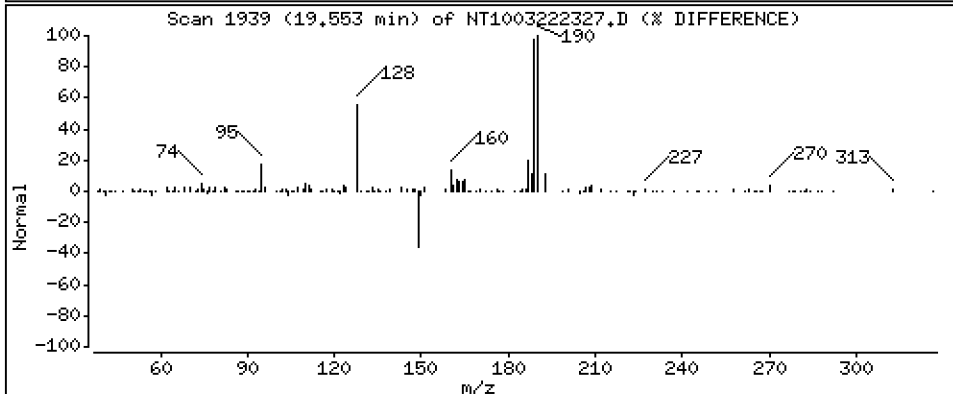
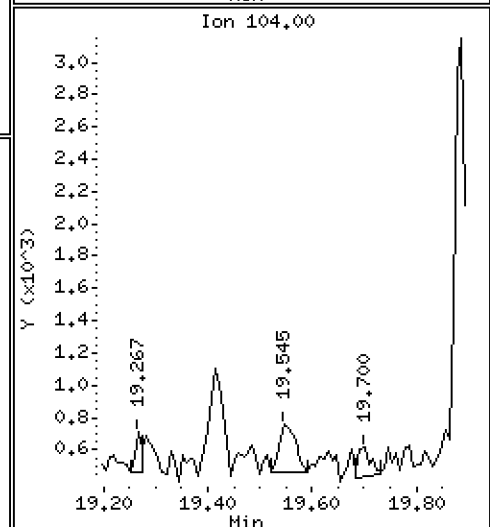
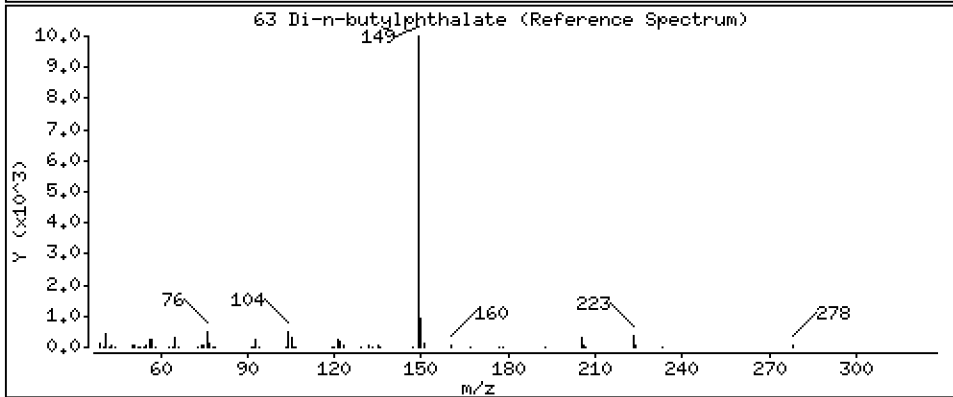
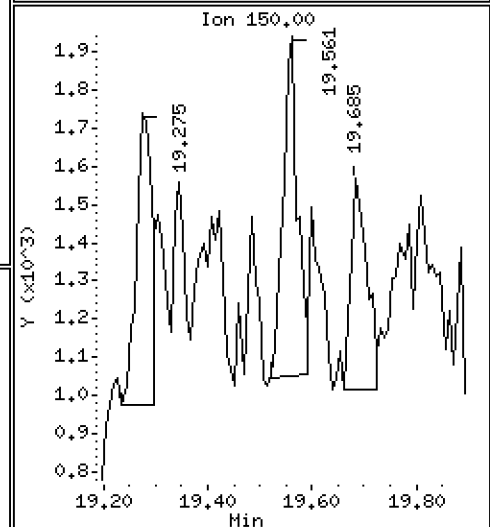
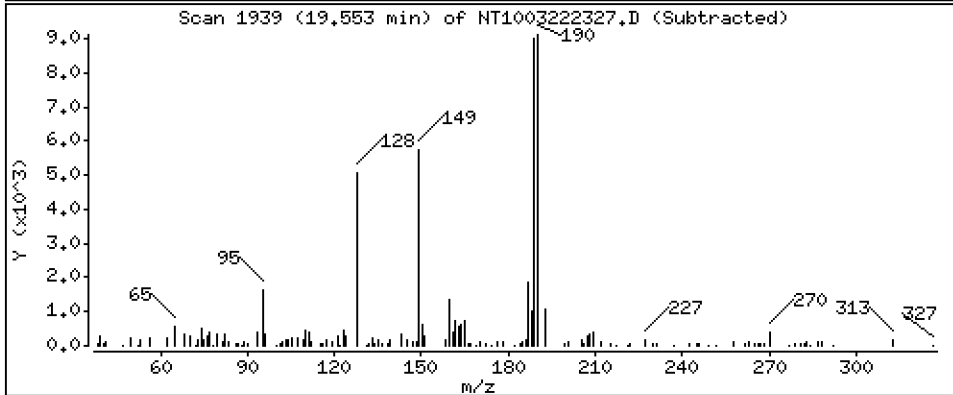
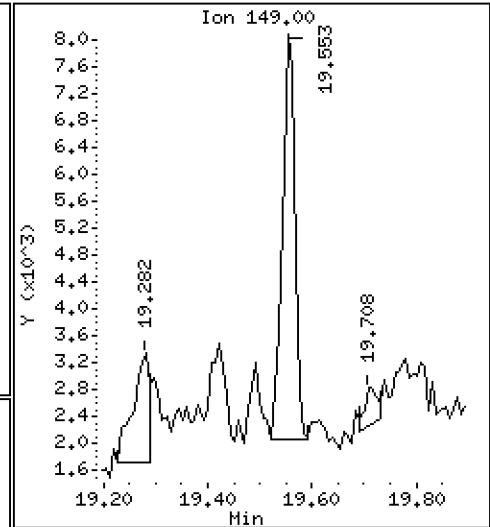
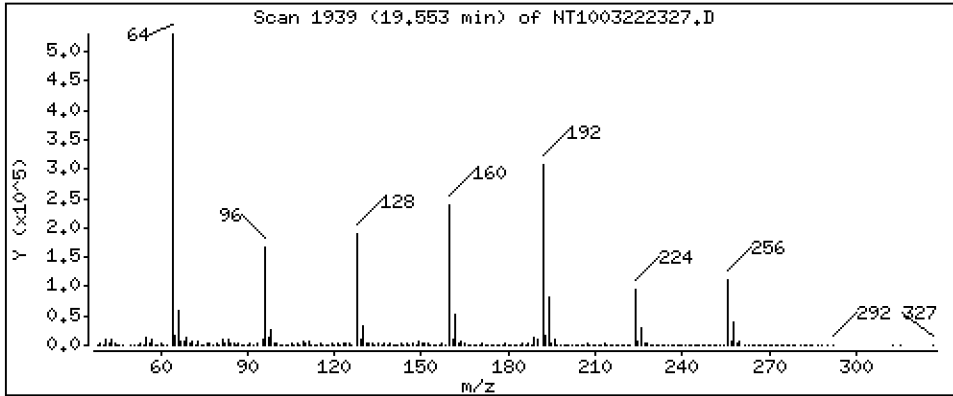
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 0.05213 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

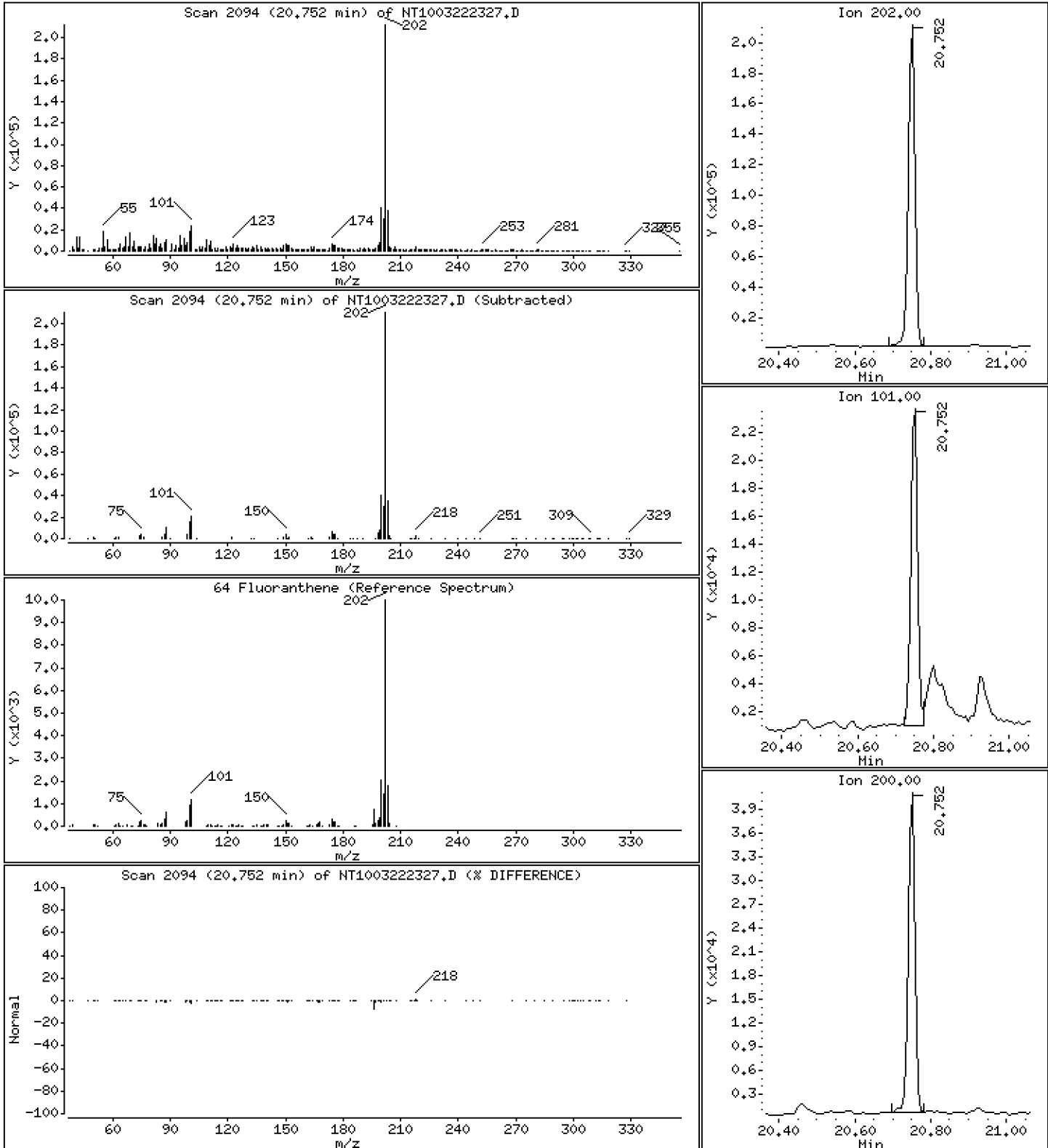
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 1,236 ug/mL





Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

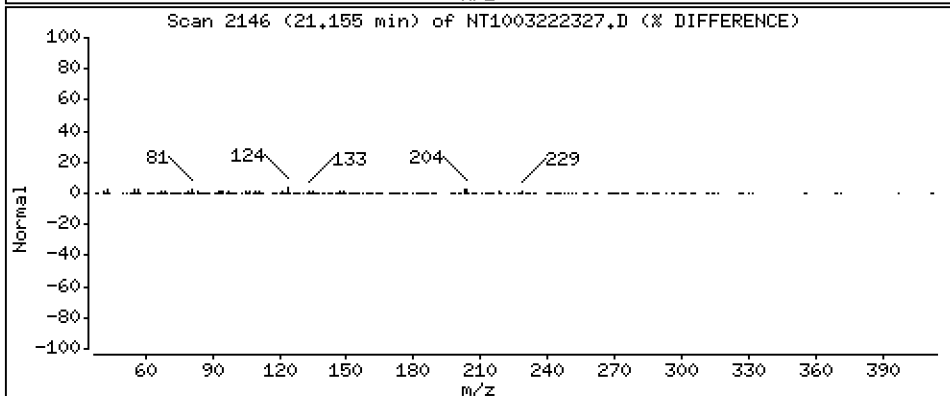
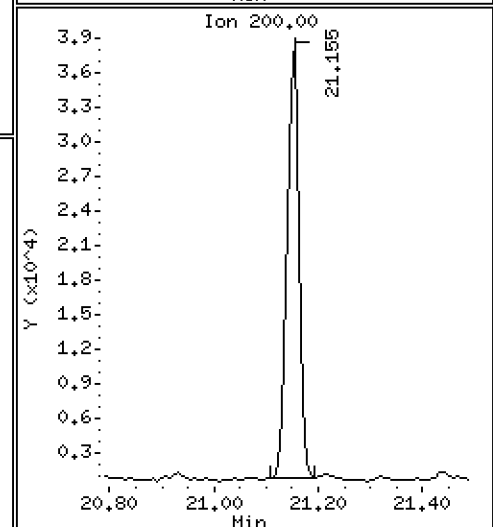
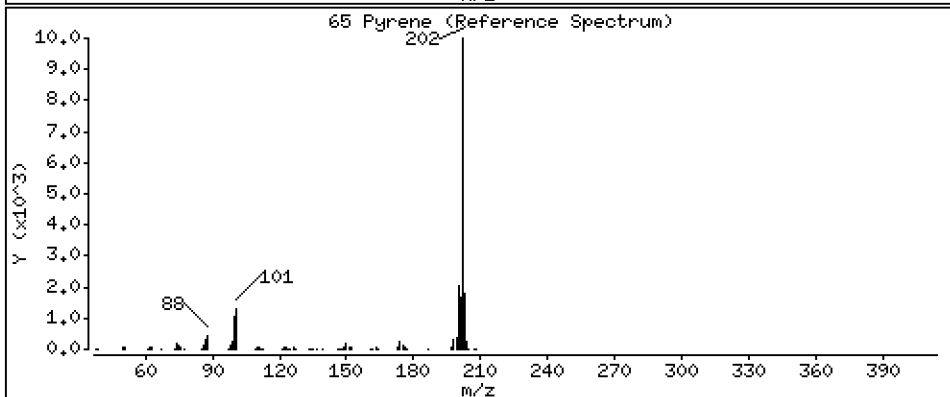
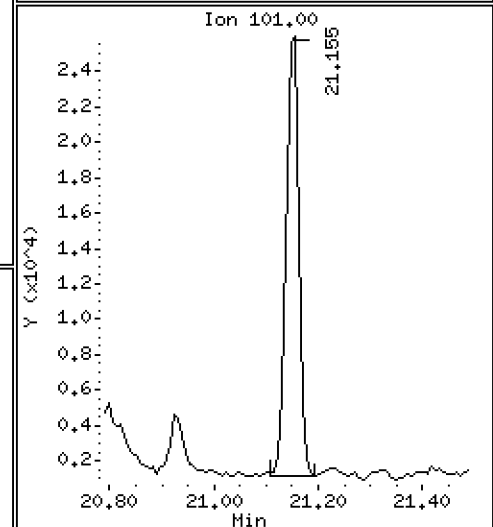
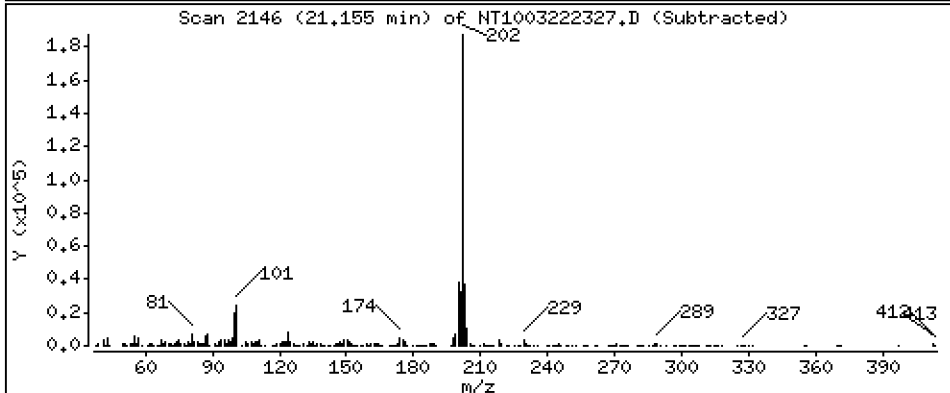
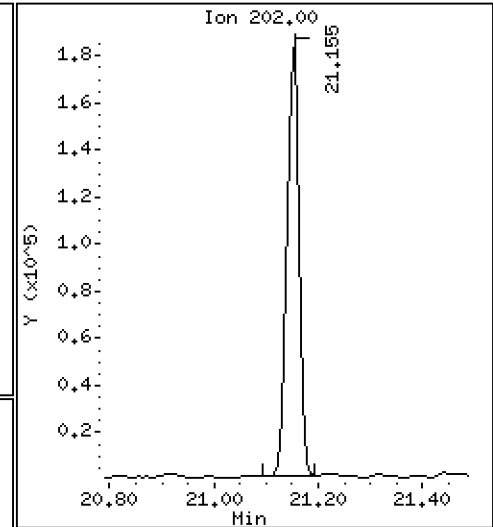
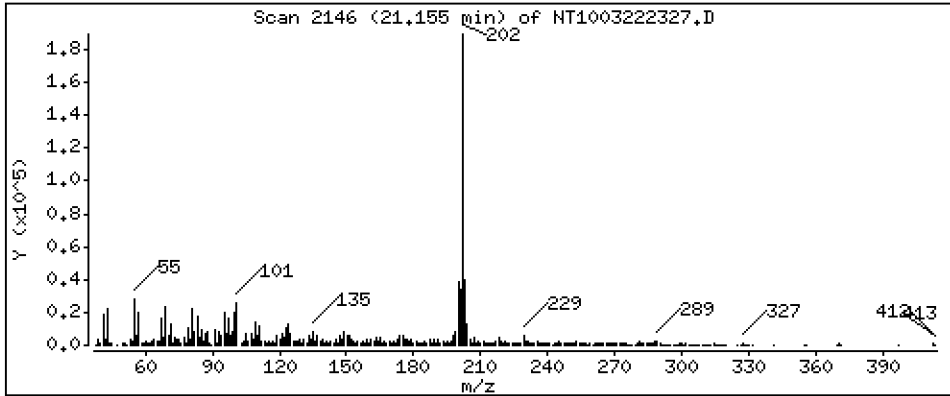
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 1,275 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

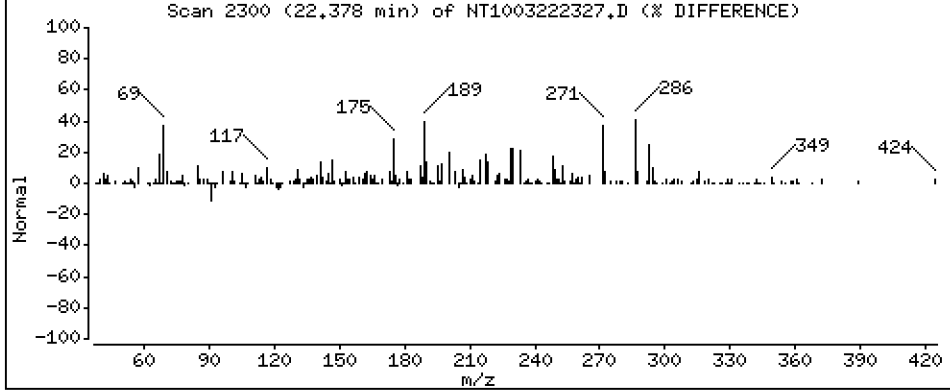
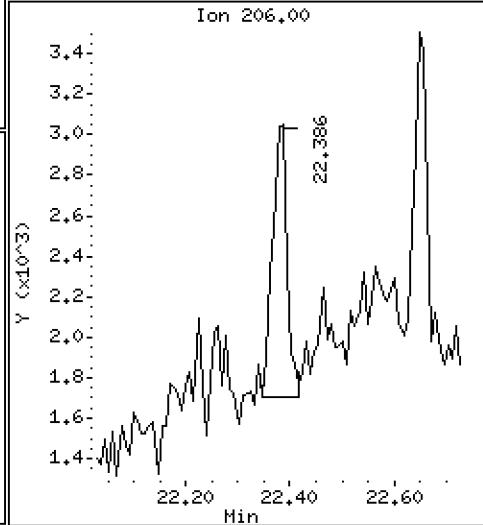
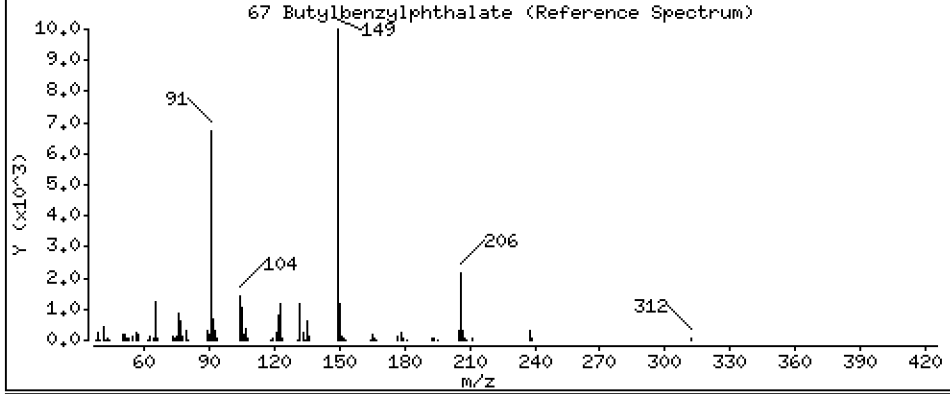
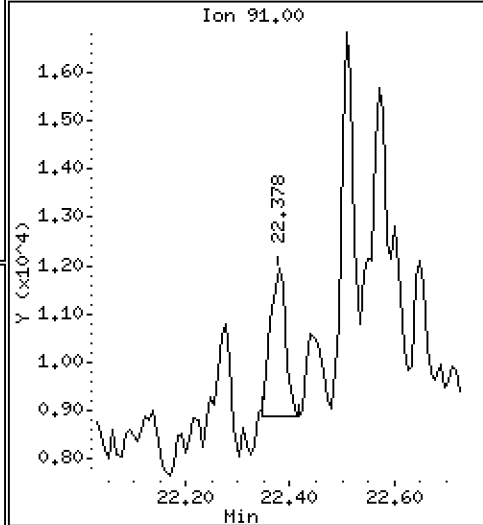
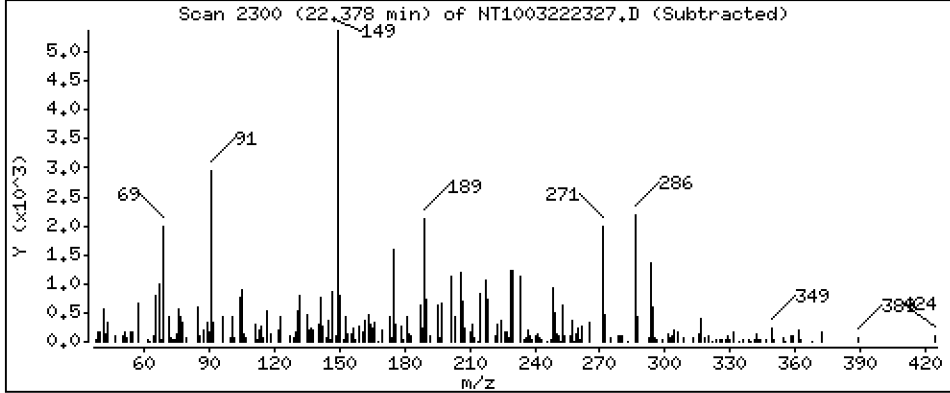
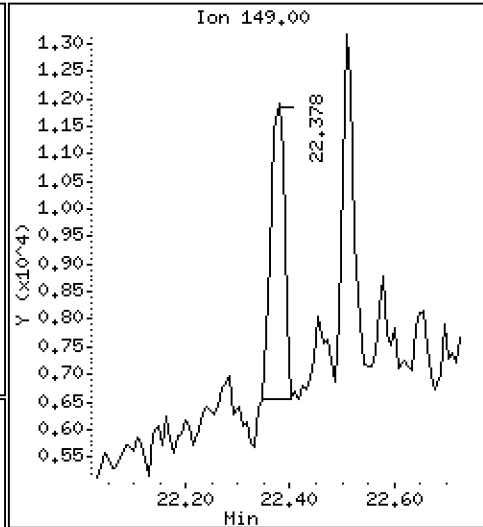
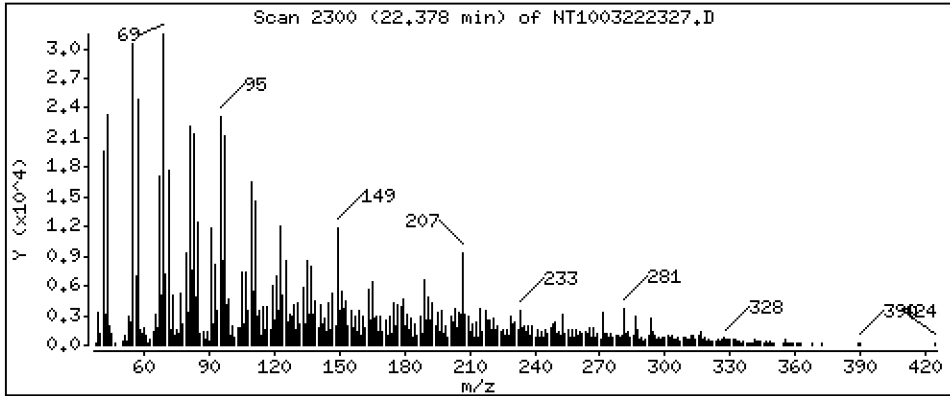
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.1180 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

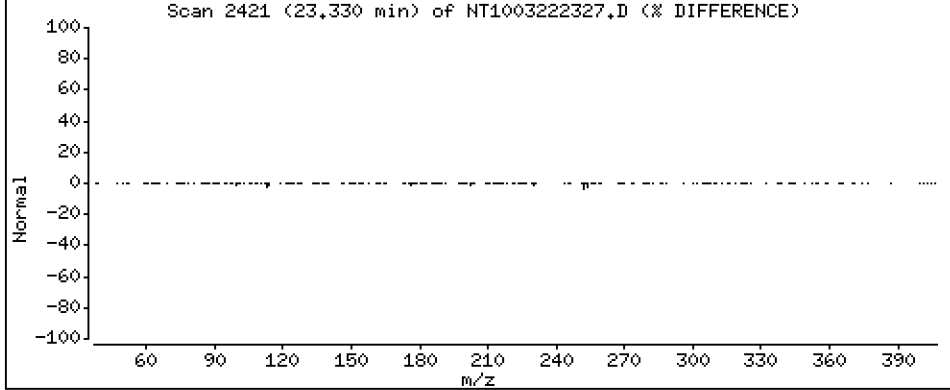
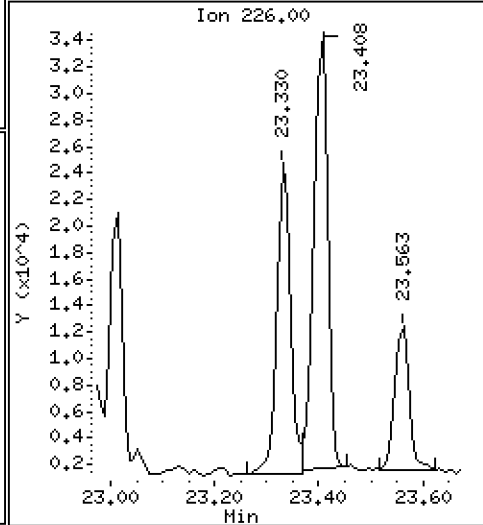
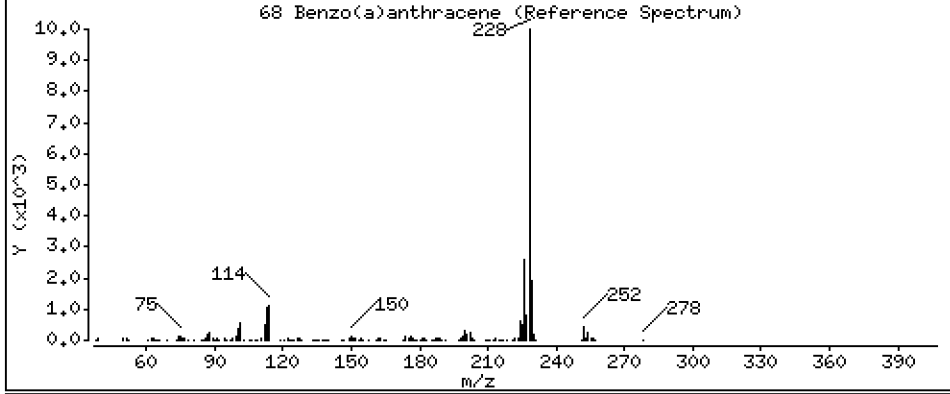
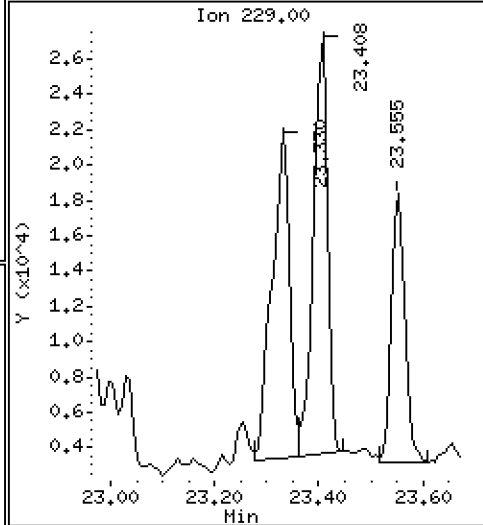
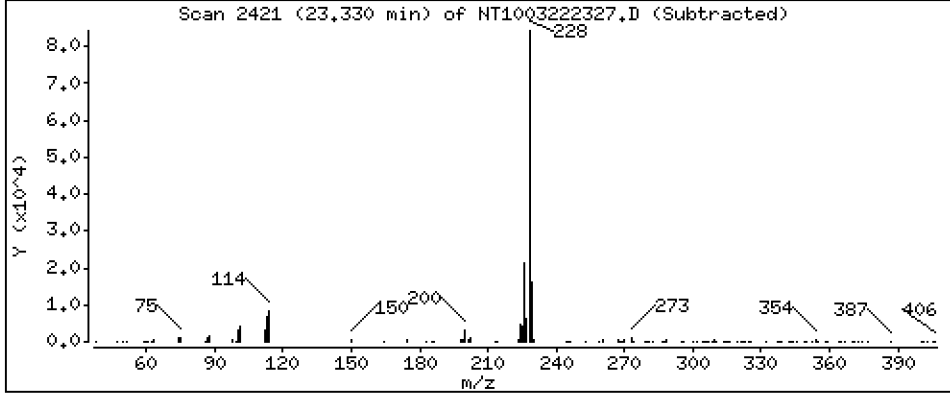
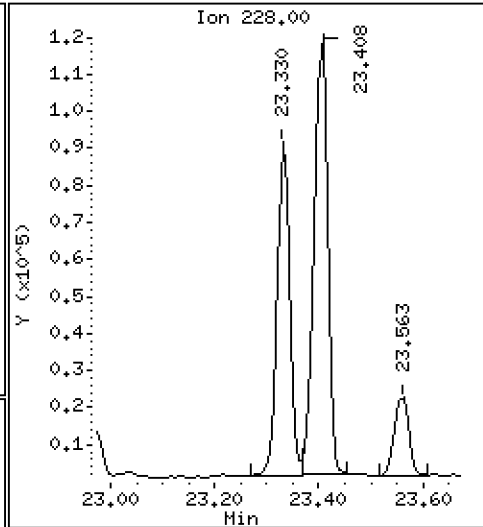
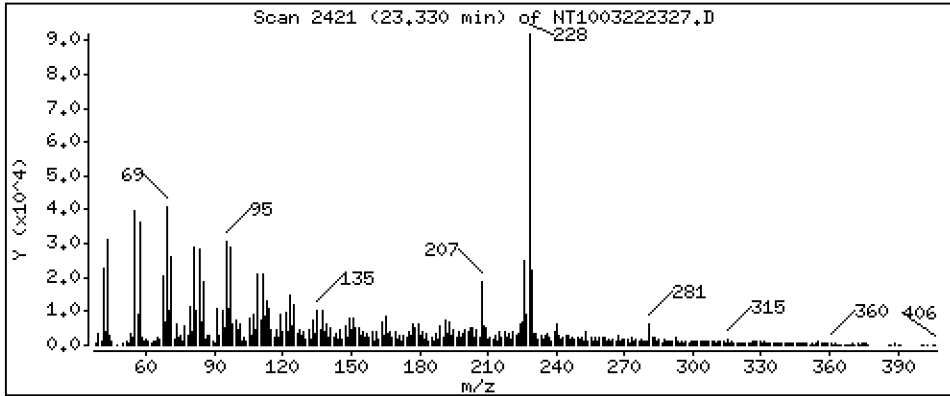
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,7598 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

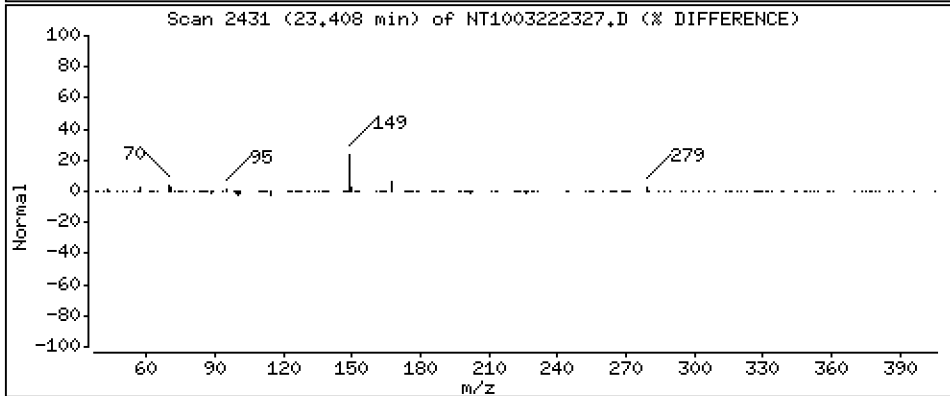
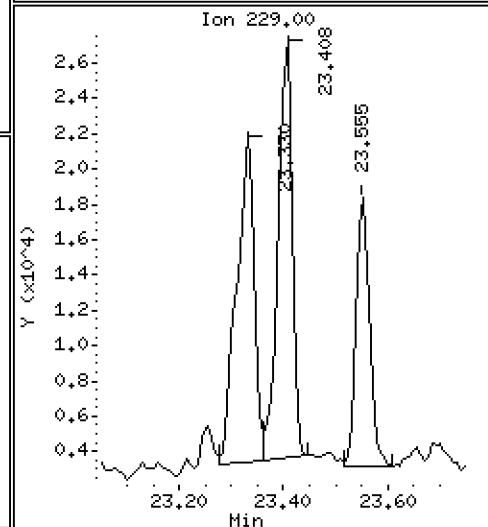
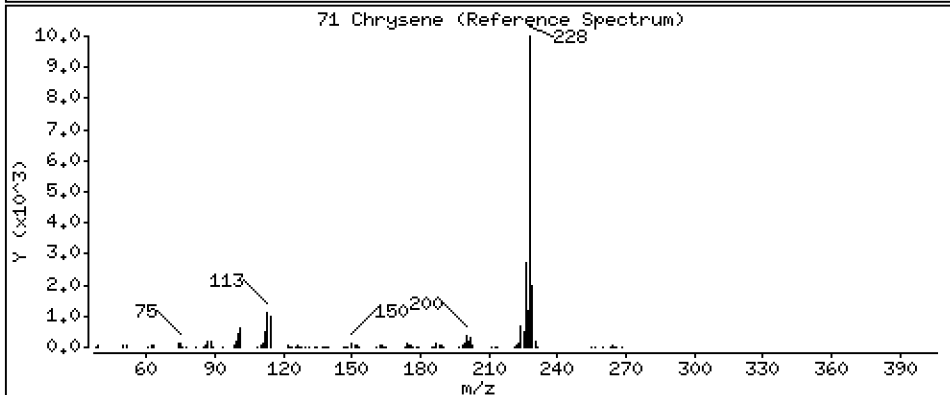
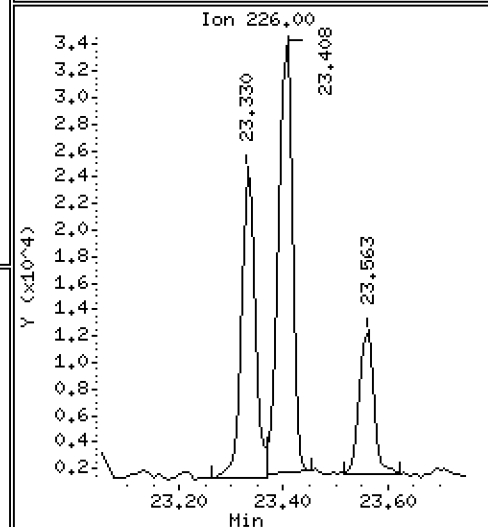
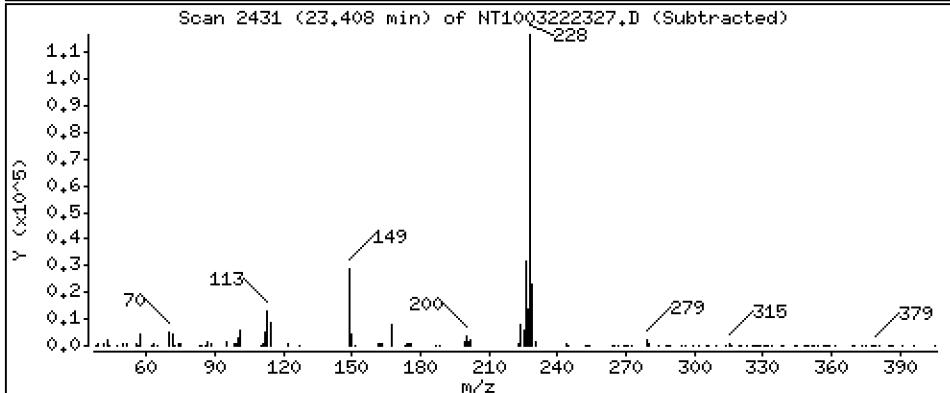
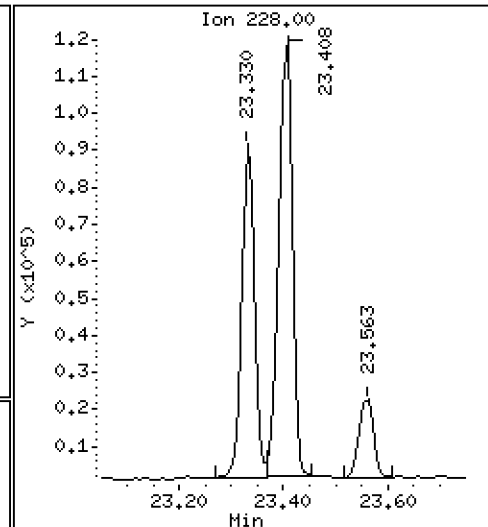
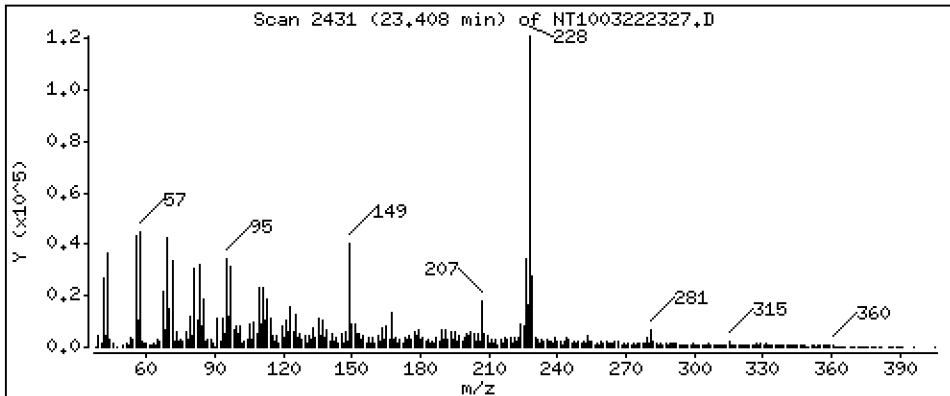
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 1,090 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

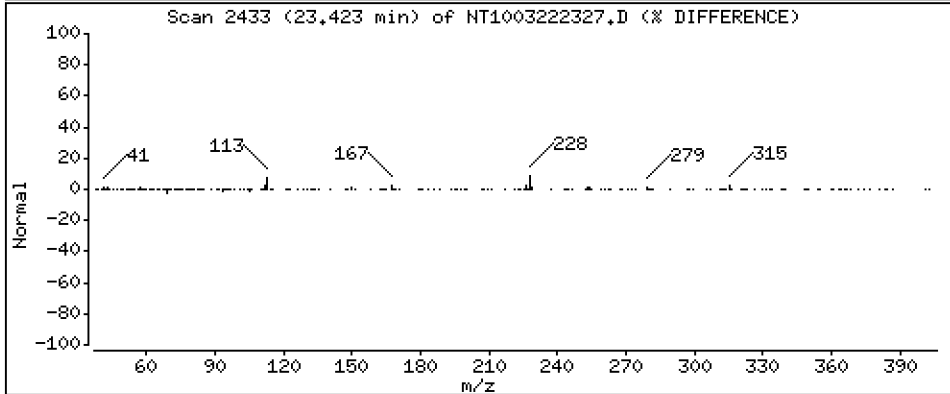
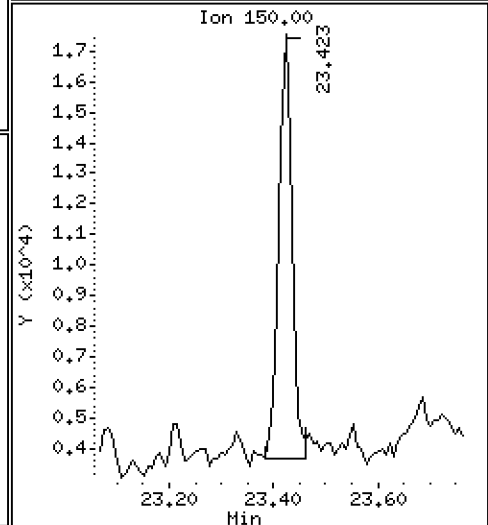
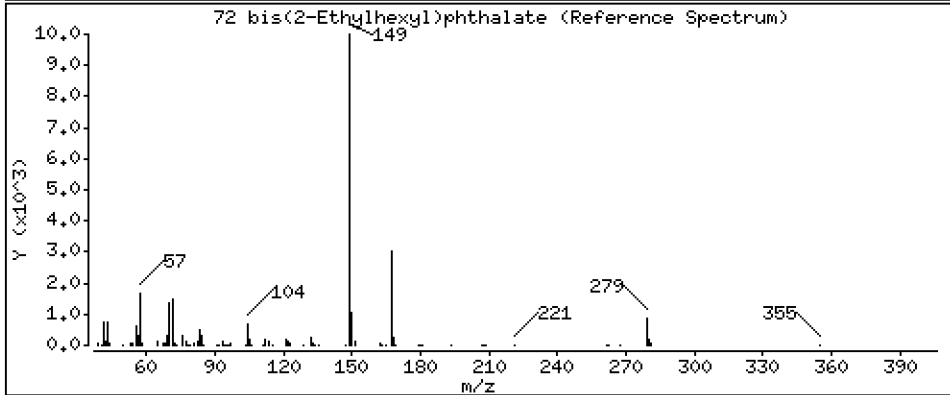
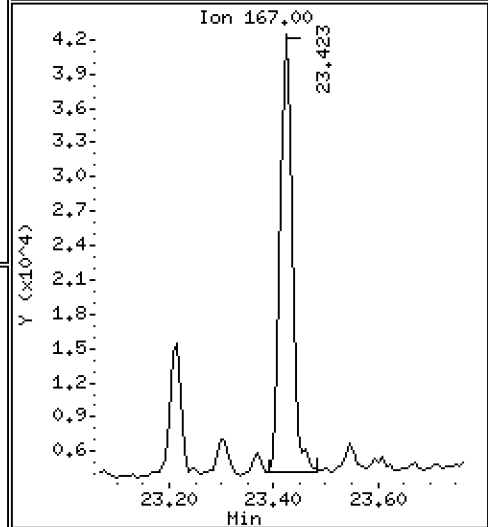
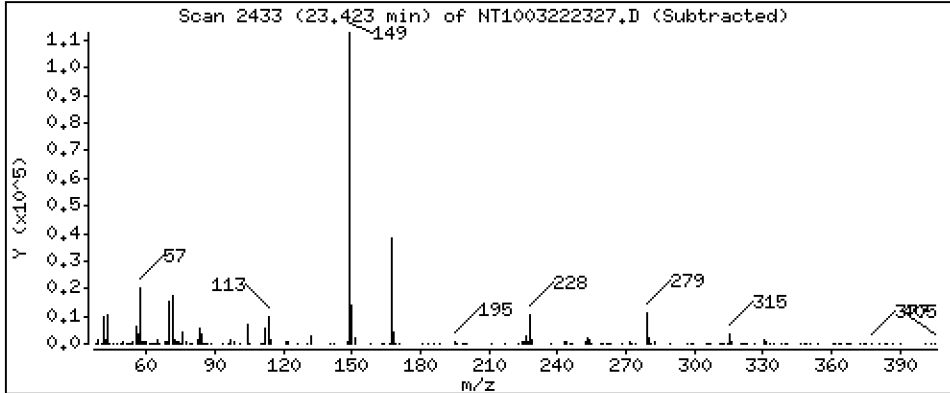
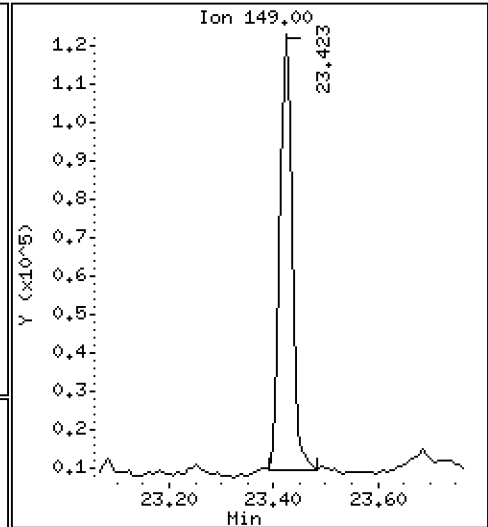
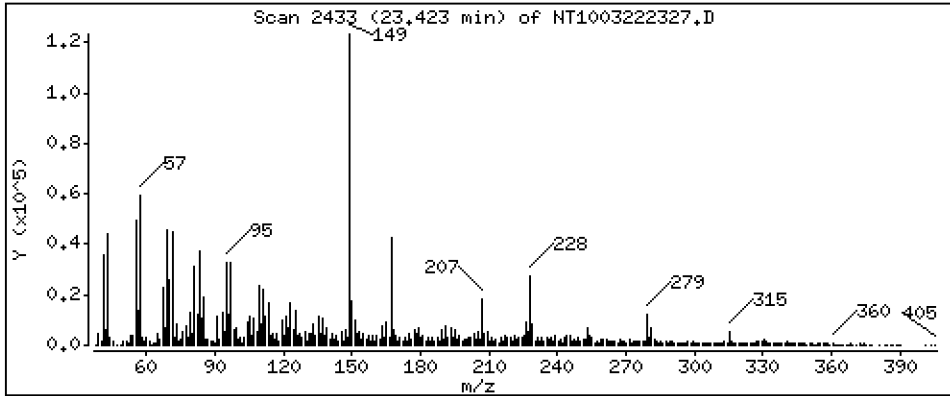
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 1,309 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

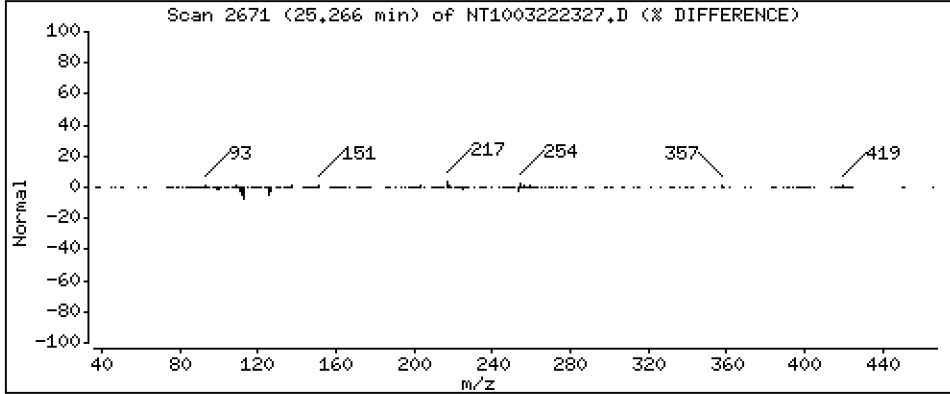
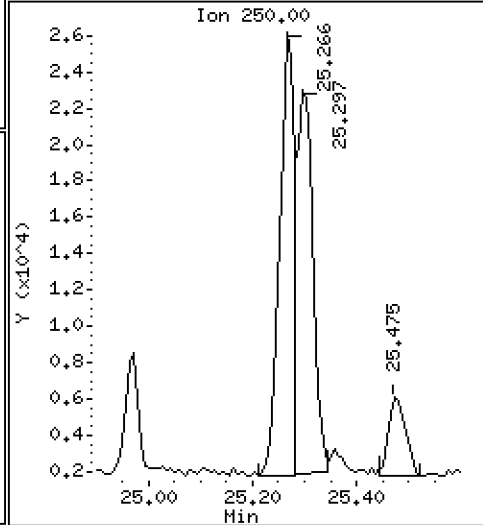
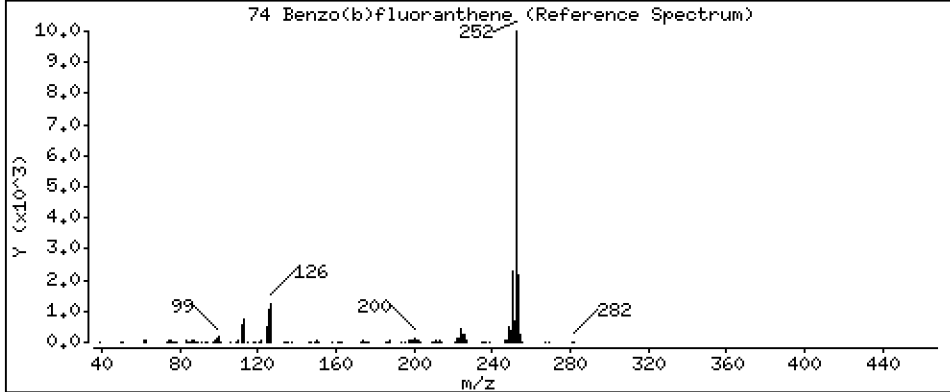
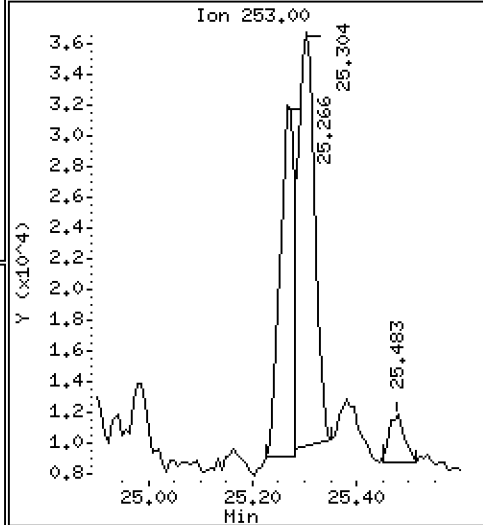
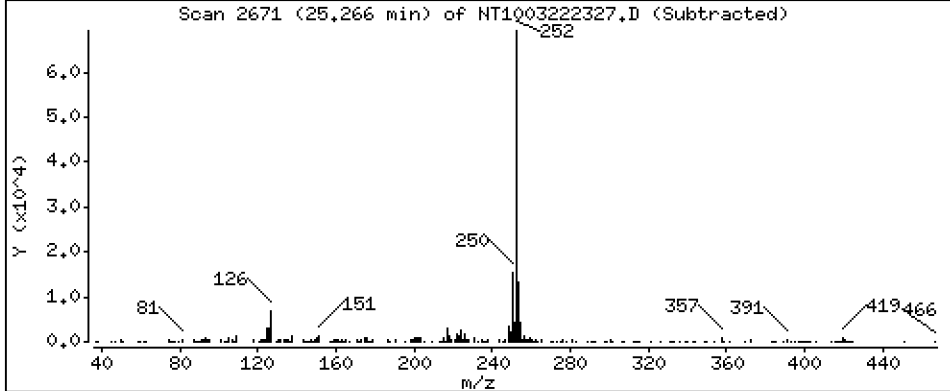
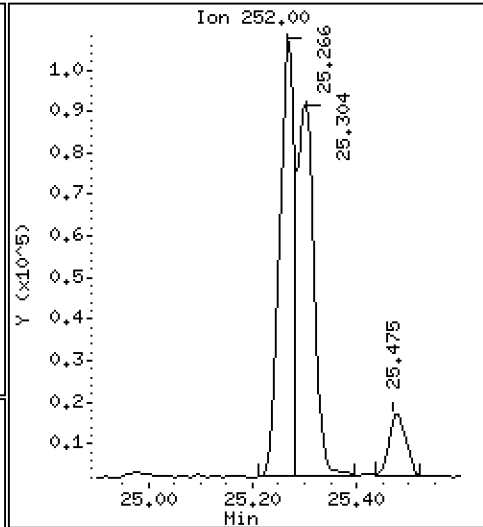
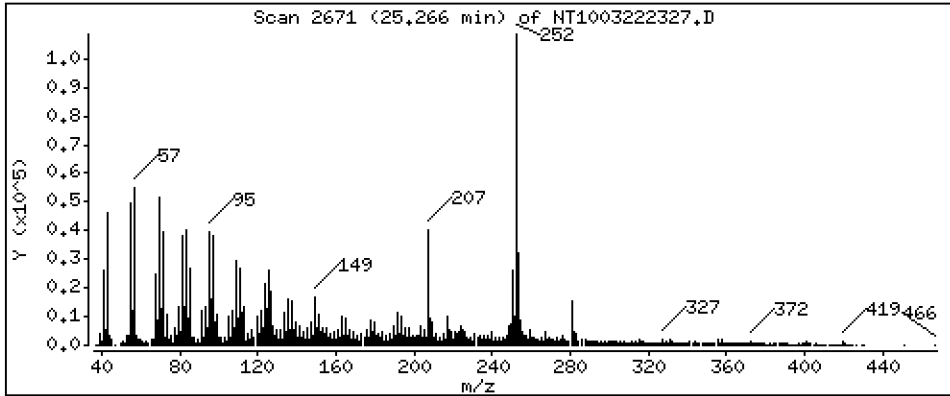
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 1,048 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

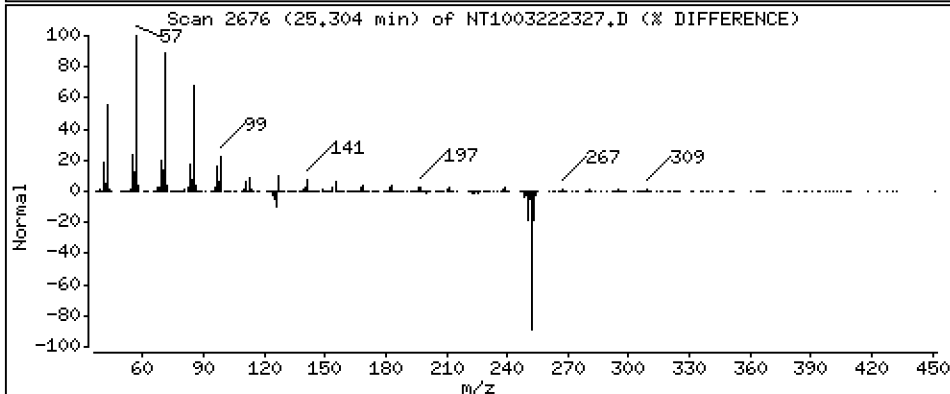
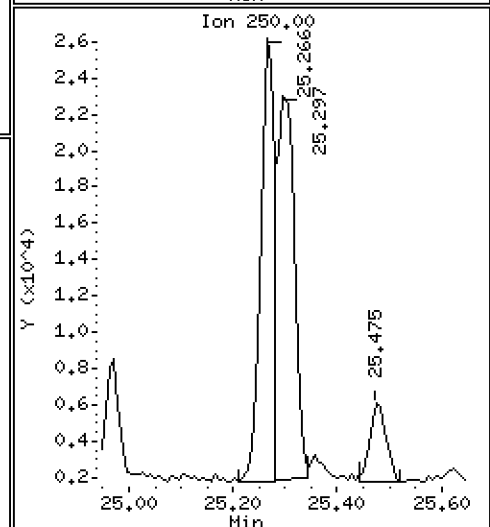
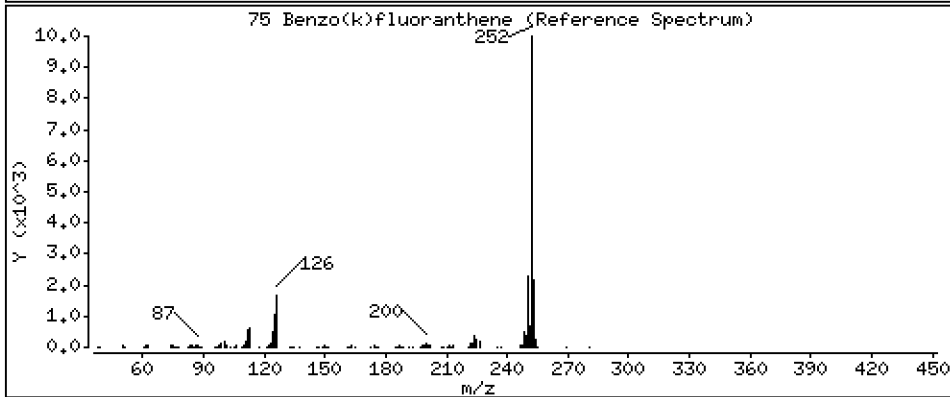
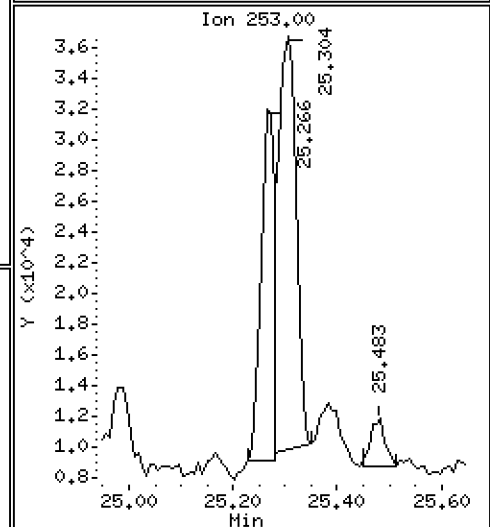
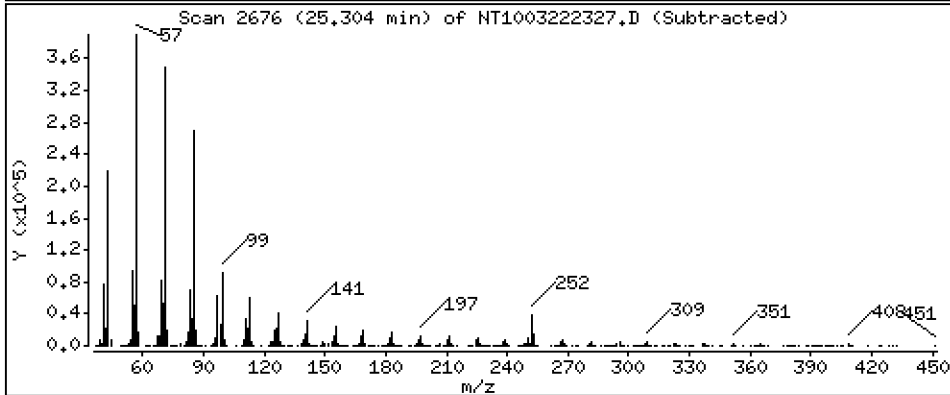
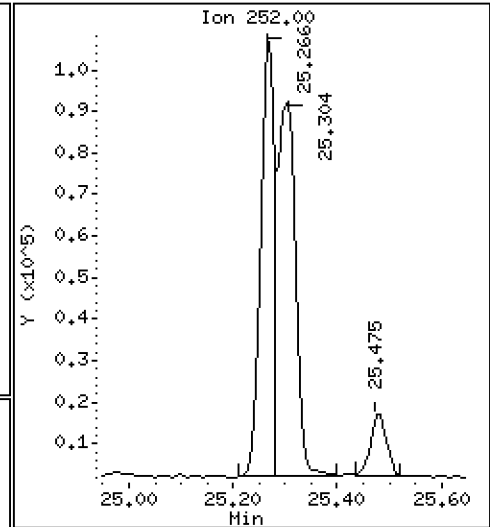
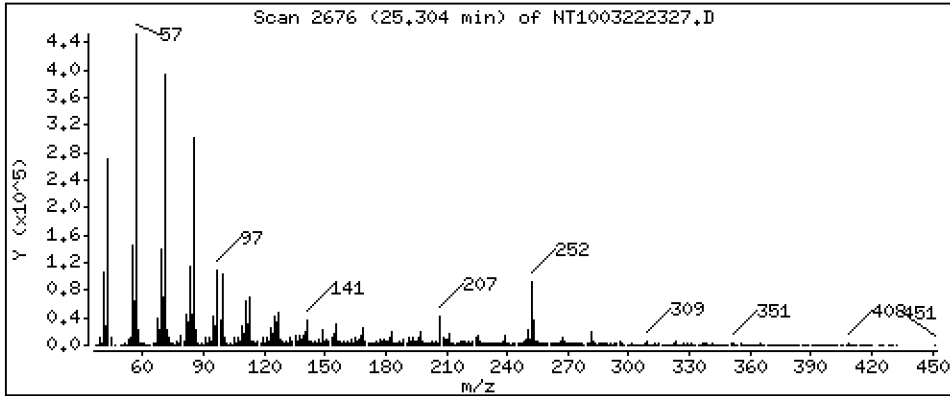
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 1,161 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

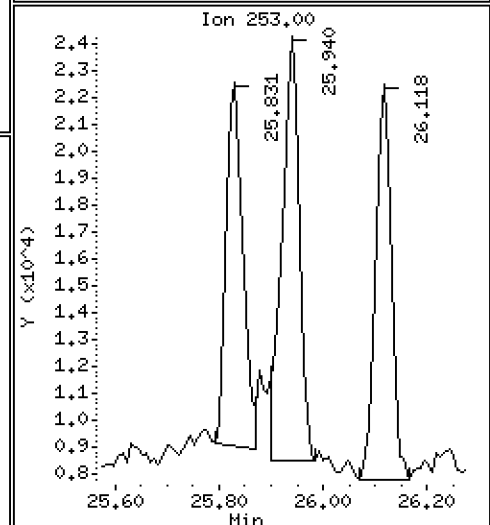
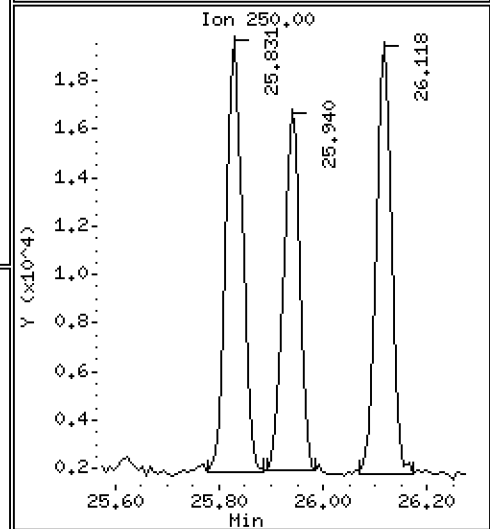
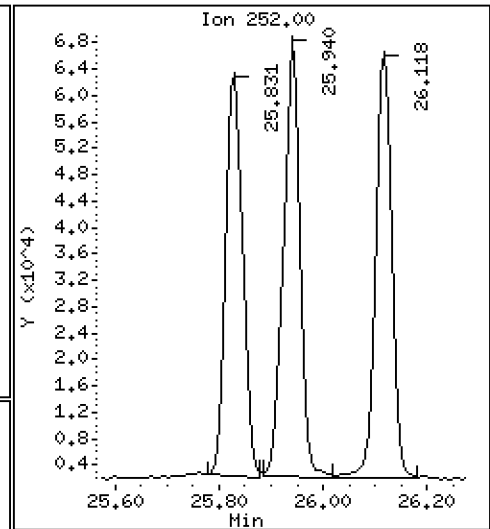
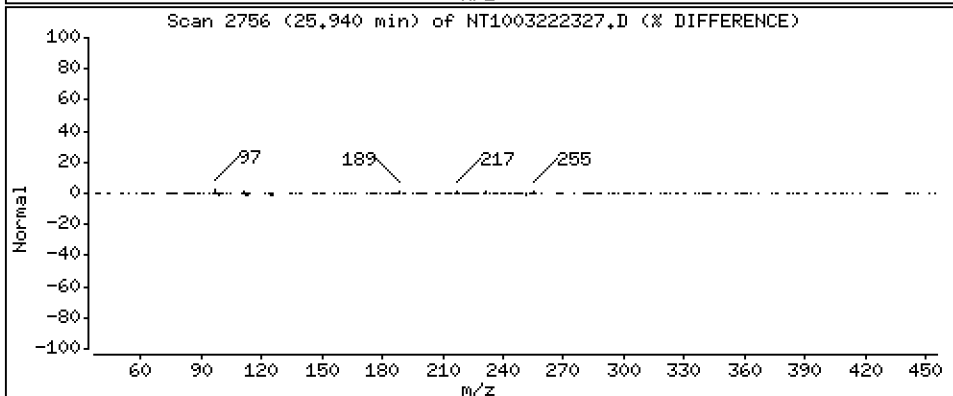
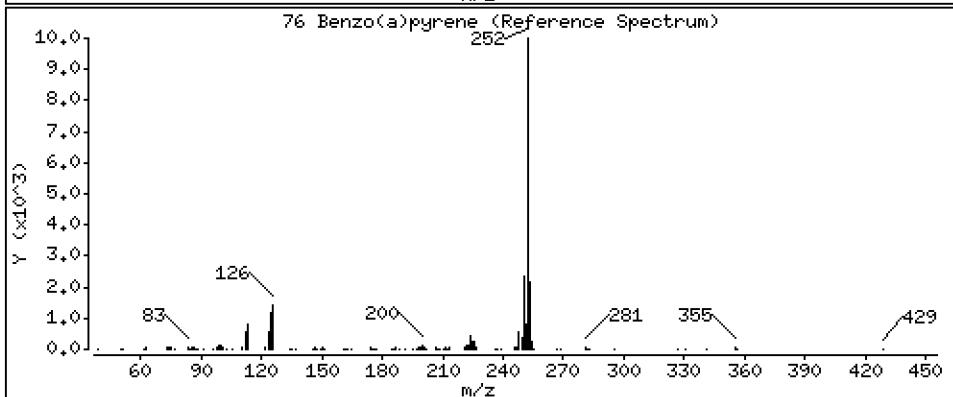
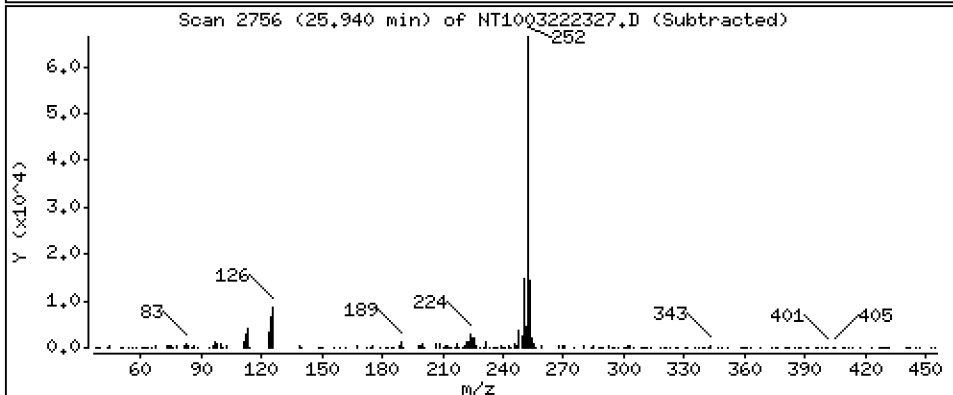
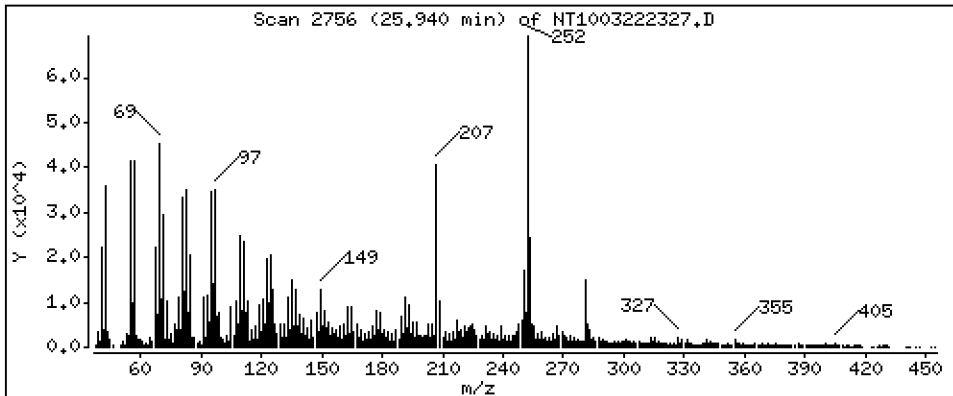
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,8446 ug/mL





Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

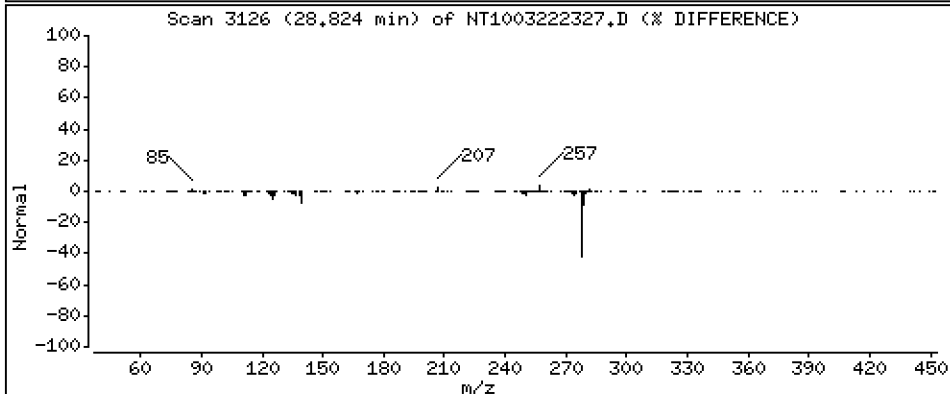
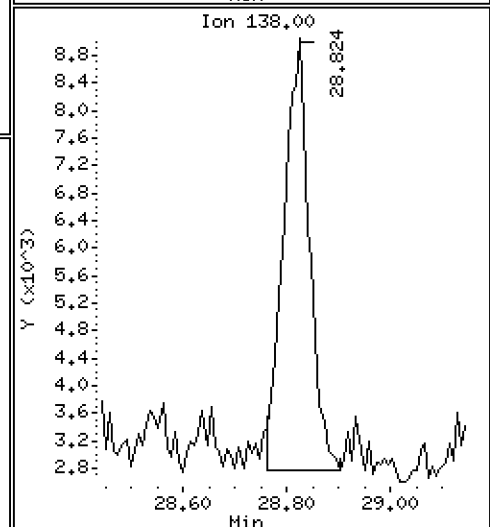
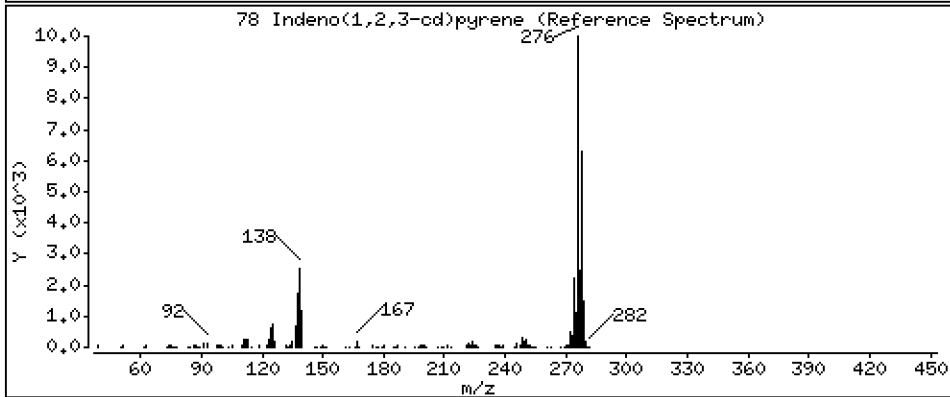
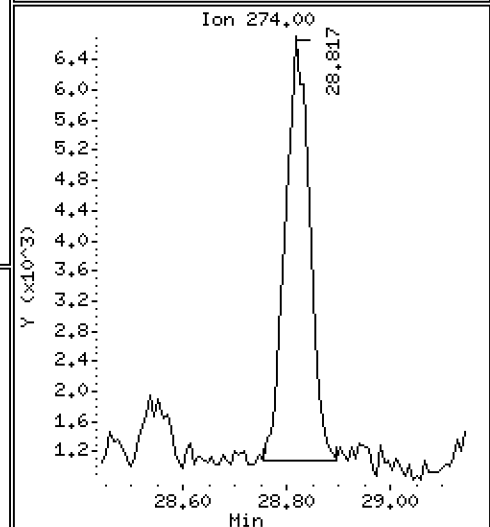
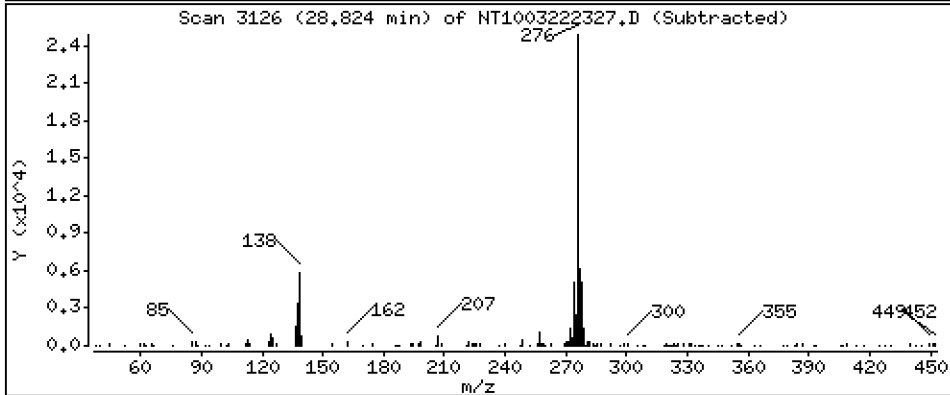
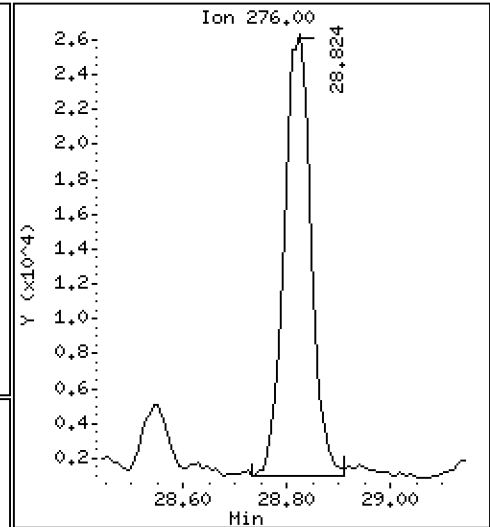
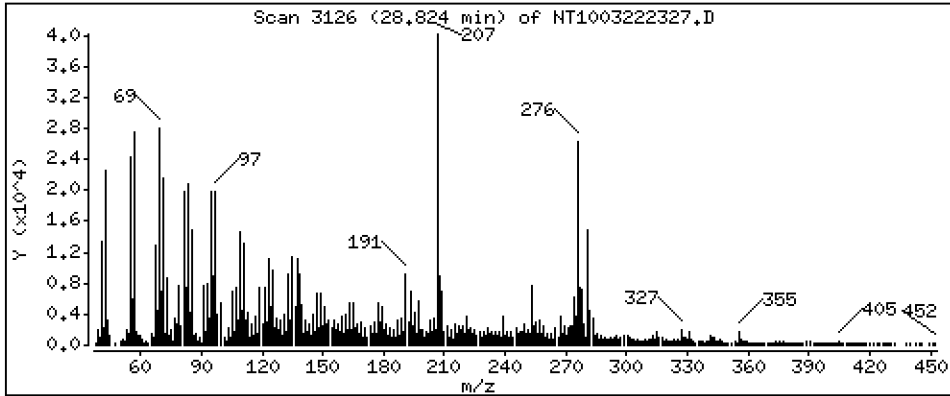
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,4204 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

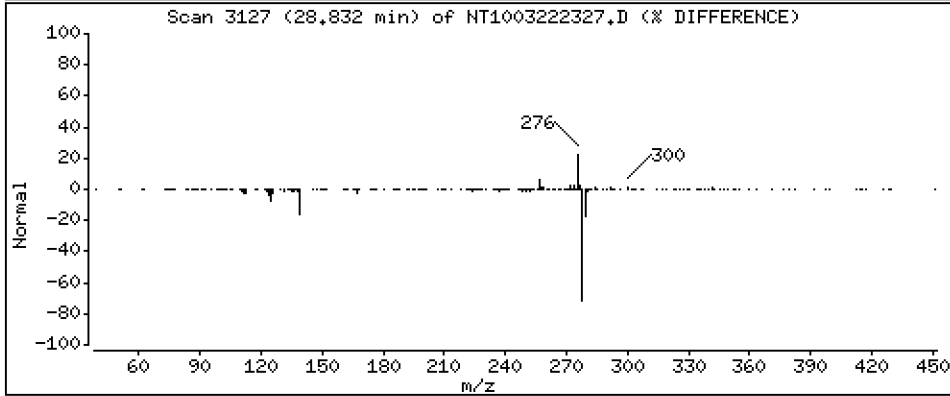
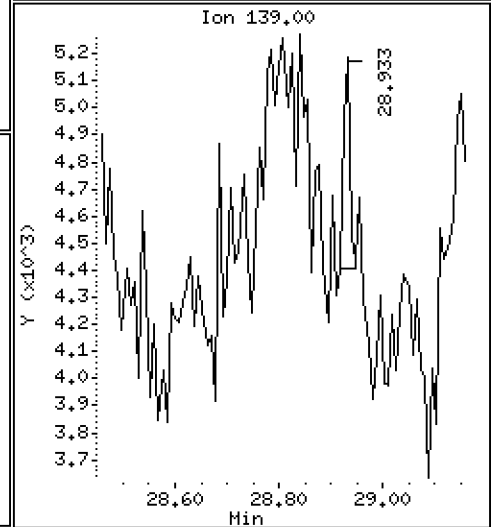
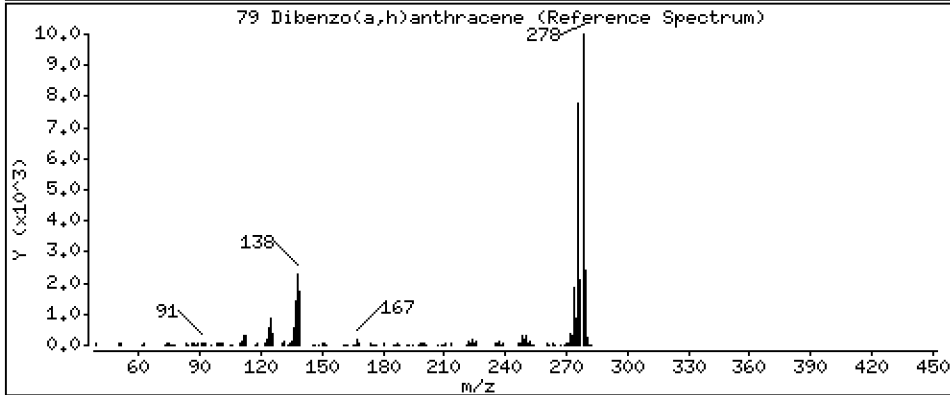
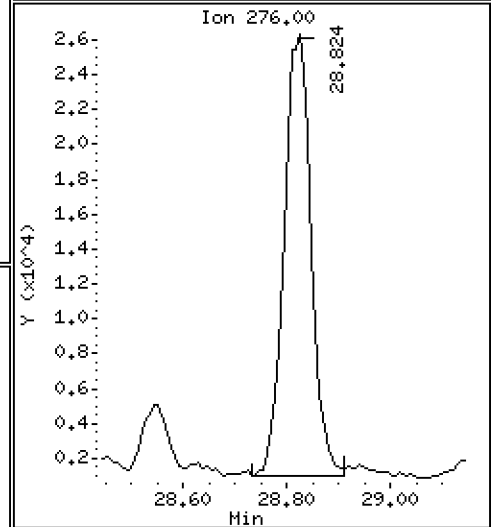
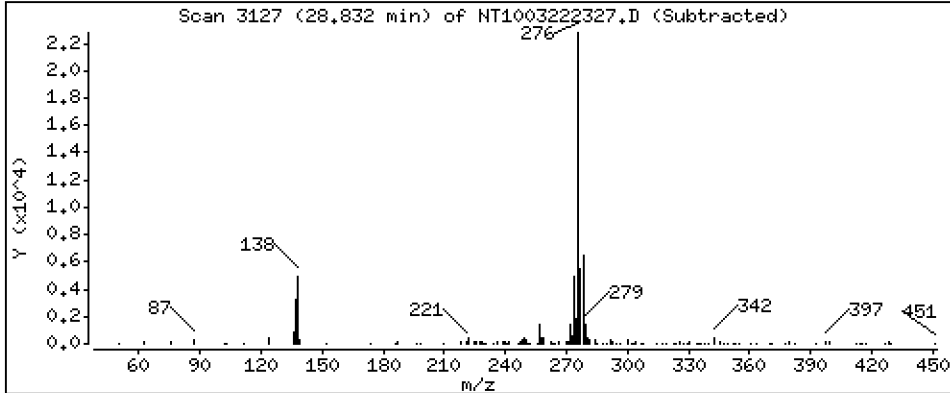
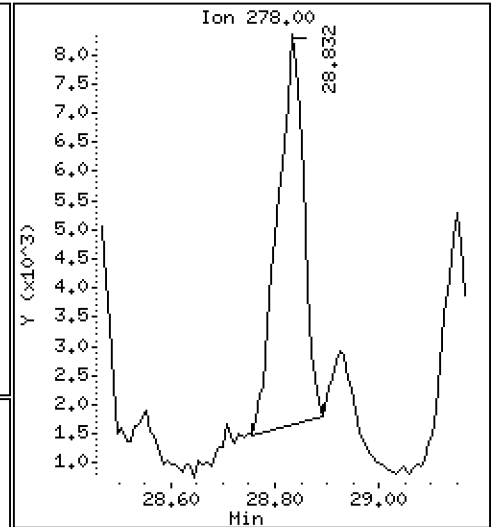
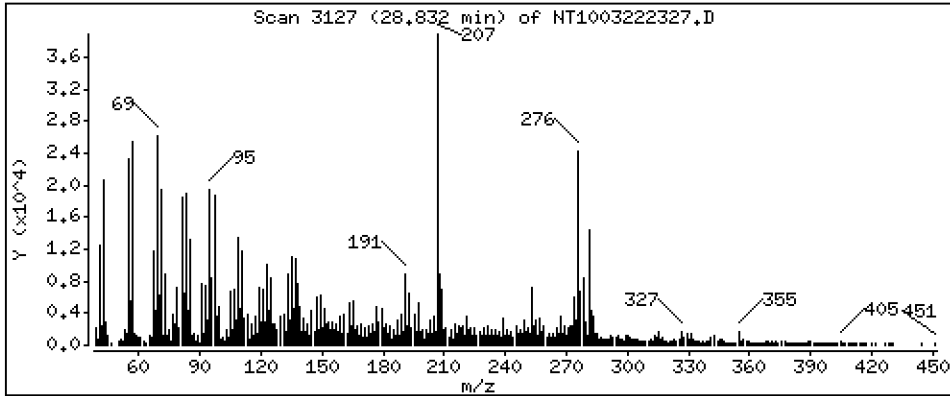
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1281 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

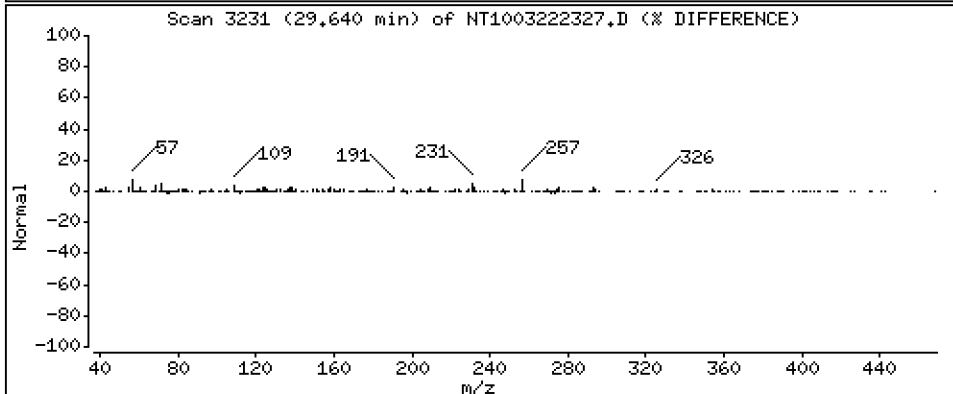
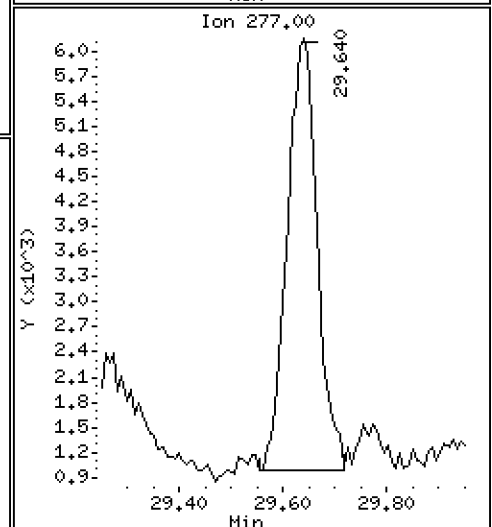
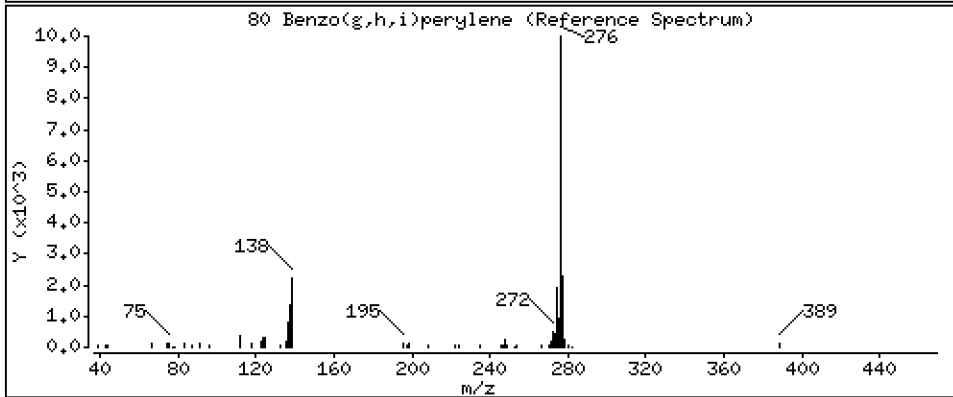
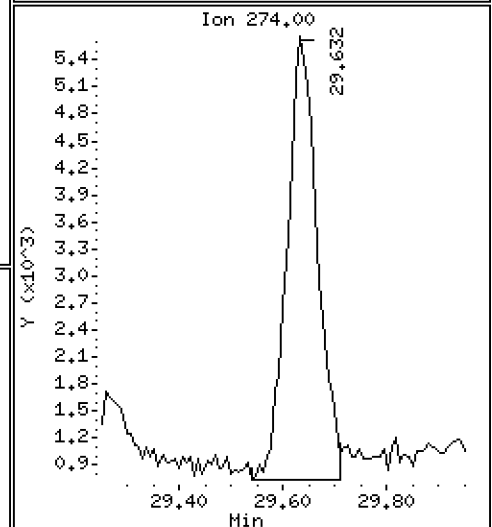
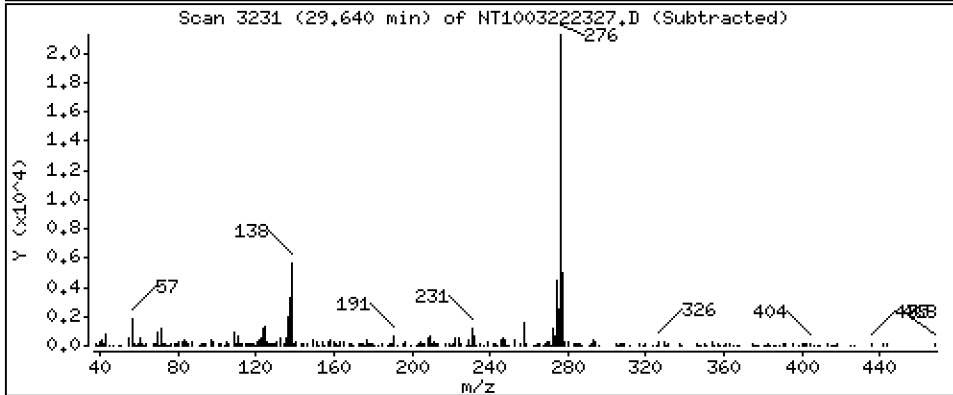
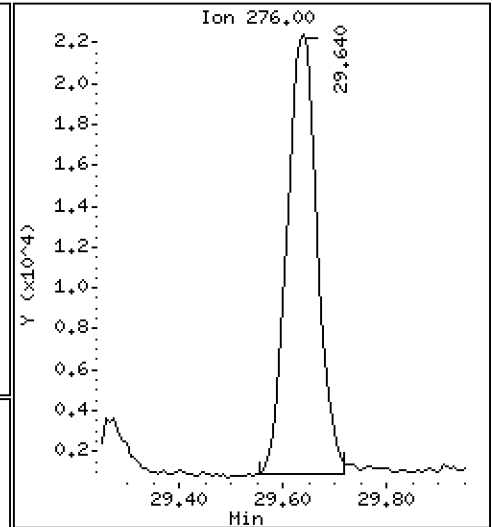
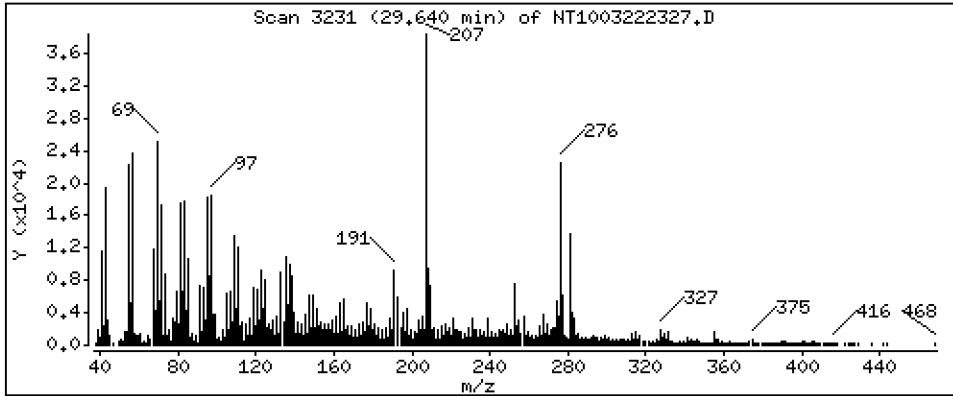
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,4589 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

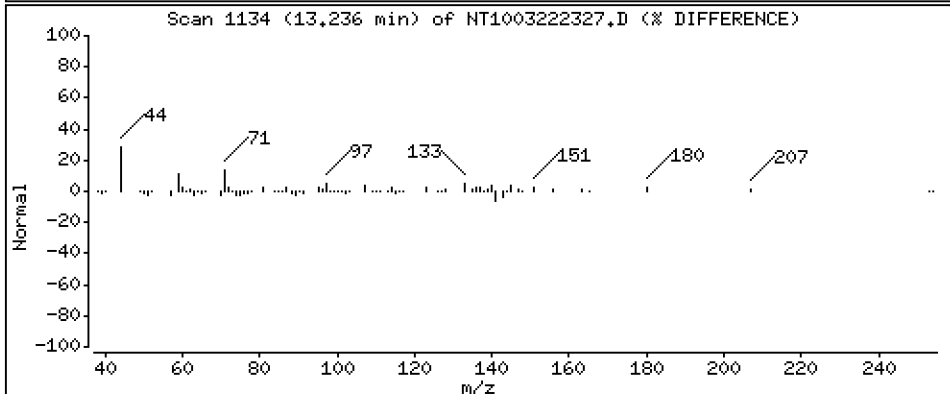
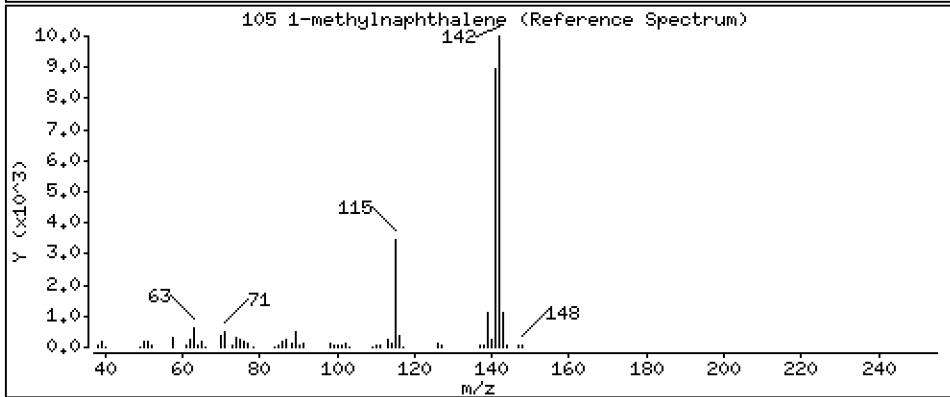
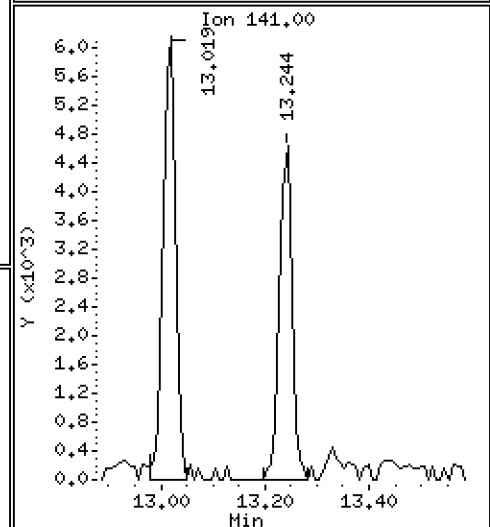
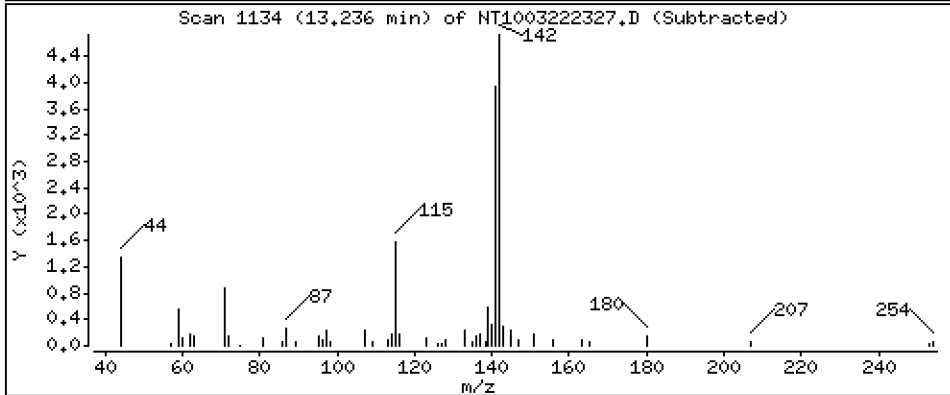
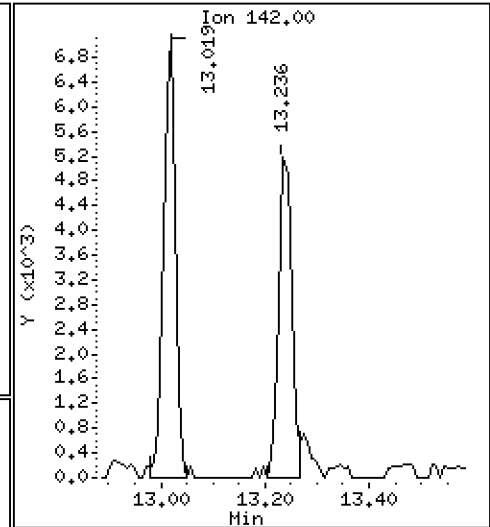
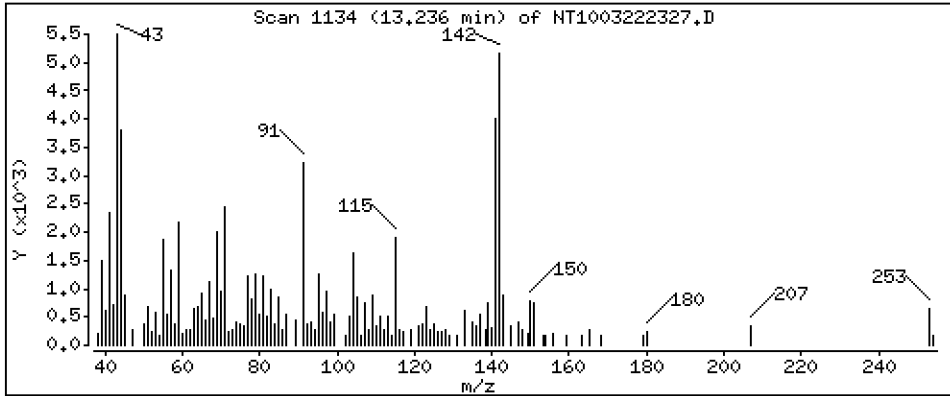
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,08709 ug/mL



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11RE1

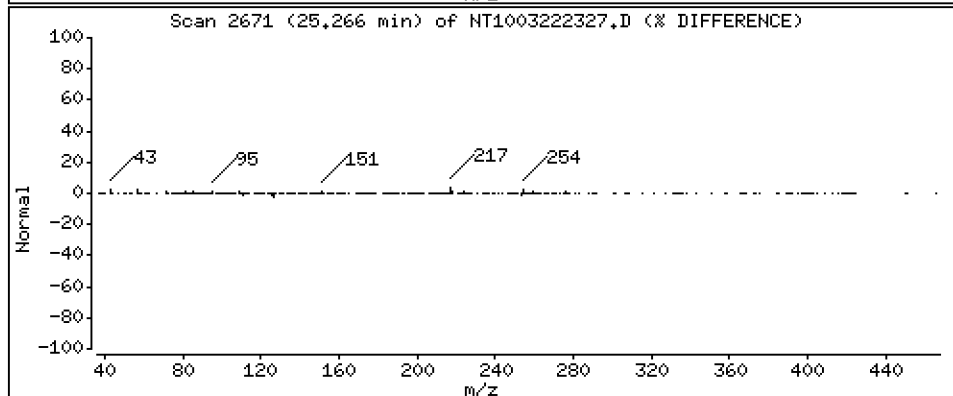
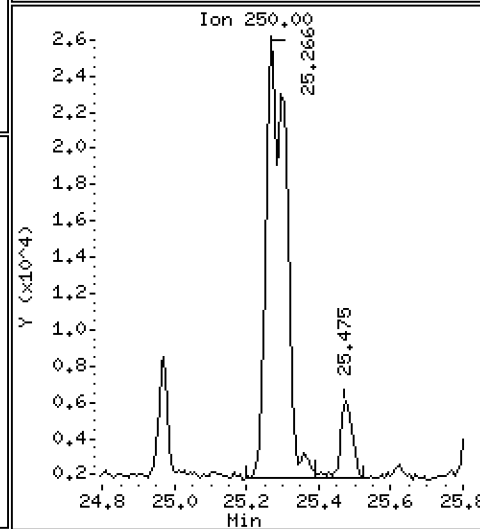
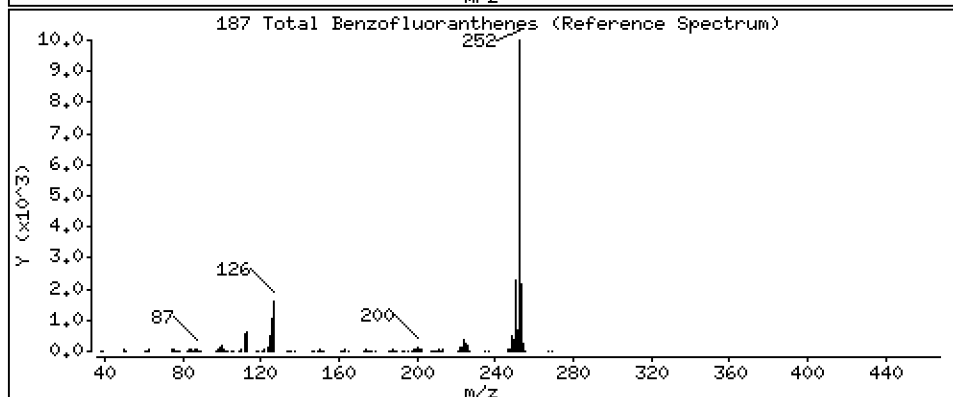
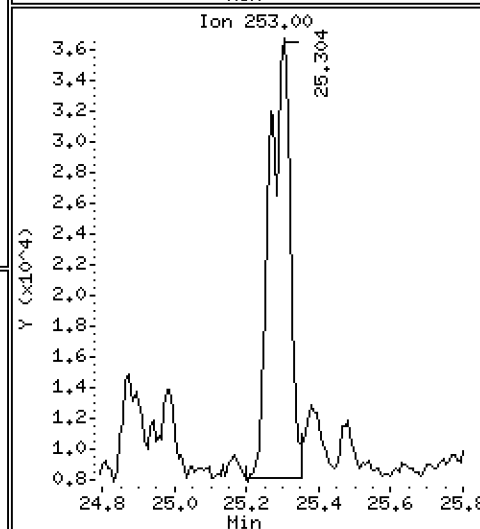
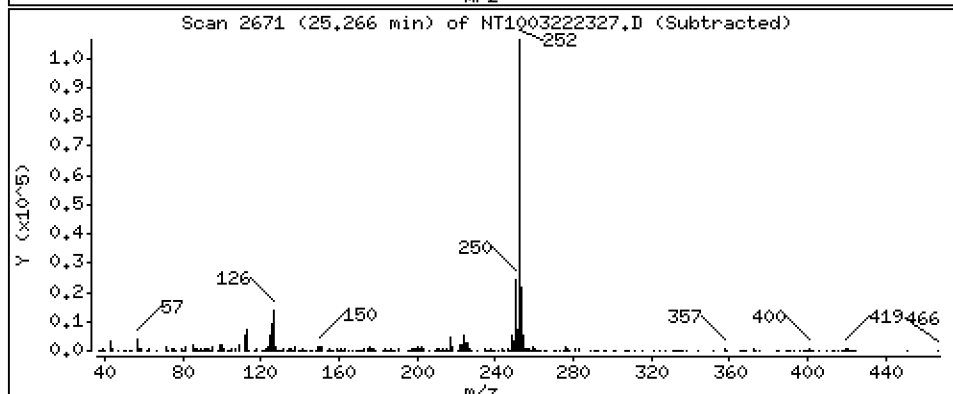
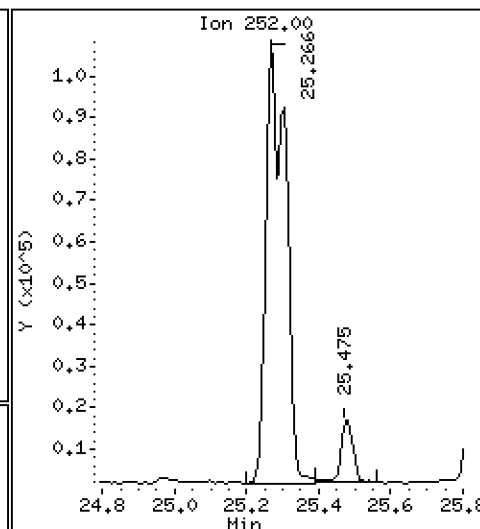
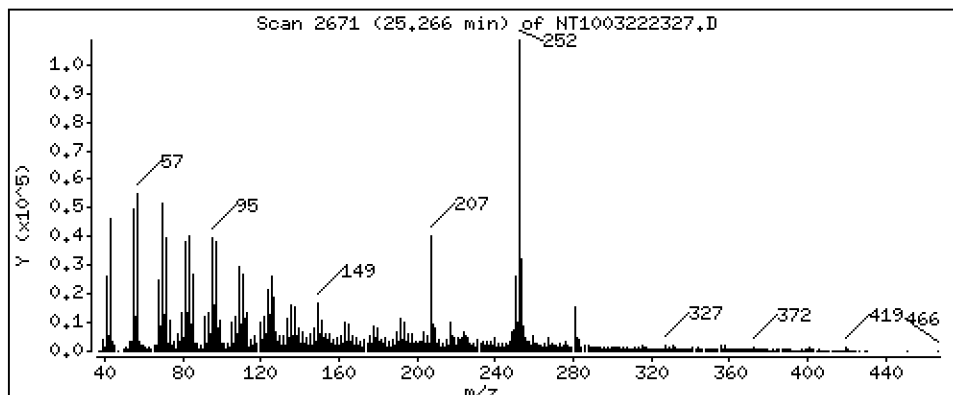
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 2,145 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222327.D  
 Lab Smp Id: 23A0179-11RE1  
 Inj Date : 23-MAR-2023 09:33  
 Operator : VTS  
 Smp Info : 23A0179-11RE1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 10:11 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 22  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |             |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-------------|
|                                 |       |     |                        |        |         |          | ON-COLUMN      | FINAL       |
|                                 | MASS  |     |                        |        |         |          | (ug/mL)        | (ug/mL)     |
| \$ 1 2-Fluorophenol             | 112   |     | 6.867                  | 6.851  | (0.756) | 269497   | 5.71465        | 5.715       |
| \$ 2 Phenol-d5                  | 99    |     | 8.458                  | 8.450  | (0.931) | 360722   | 5.83074        | 5.831       |
| 3 Phenol                        | 94    |     | 8.482                  | 8.474  | (0.934) | 214266   | 3.33291        | 3.333       |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.729                  | 8.721  | (0.961) | 325694   | 6.16508        | 6.165       |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | Compound Not Detected. |        |         |          |                |             |
| 6 2-Chlorophenol                | 128   |     | Compound Not Detected. |        |         |          |                |             |
| 7 1,3-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |             |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.085                  | 9.085  | (1.000) | 155943   | 4.00000        |             |
| 9 1,4-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |             |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.449                  | 9.441  | (1.040) | 140379   | 3.70010        | 3.700       |
| 12 1,2-Dichlorobenzene          | 146   |     | Compound Not Detected. |        |         |          |                |             |
| 11 Benzyl alcohol               | 108   |     | 9.364                  | 9.356  | (1.031) | 10117    | 0.33528        | 0.3353      |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | Compound Not Detected. |        |         |          |                |             |
| 13 2-Methylphenol               | 108   |     | 9.597                  | 9.589  | (1.056) | 1107     | 0.02362        | 0.02362 (M) |
| 17 Hexachloroethane             | 117   |     | Compound Not Detected. |        |         |          |                |             |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | Compound Not Detected. |        |         |          |                |             |
| 15 4-Methylphenol               | 108   |     | 9.869                  | 9.861  | (1.086) | 24068    | 0.48742        | 0.4874      |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.187                 | 10.179 | (0.880) | 222552   | 3.87819        | 3.878       |
| 19 Nitrobenzene                 | 77    |     | Compound Not Detected. |        |         |          |                |             |
| 20 Isophorone                   | 82    |     | Compound Not Detected. |        |         |          |                |             |
| 21 2-Nitrophenol                | 139   |     | Compound Not Detected. |        |         |          |                |             |
| 22 2,4-Dimethylphenol           | 107   |     | Compound Not Detected. |        |         |          |                |             |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | Compound Not Detected. |        |         |          |                |             |
| 24 Benzoic acid                 | 105   |     | 11.020                 | 11.105 | (0.952) | 18923    | 0.65804        | 0.6580      |
| 25 2,4-Dichlorophenol           | 162   |     | Compound Not Detected. |        |         |          |                |             |
| 26 1,2,4-Trichlorobenzene       | 180   |     | Compound Not Detected. |        |         |          |                |             |
| * 27 Naphthalene-d8             | 136   |     | 11.580                 | 11.572 | (1.000) | 568533   | 4.00000        |             |
| 28 Naphthalene                  | 128   |     | 11.619                 | 11.618 | (1.003) | 17930    | 0.11905        | 0.1190      |
| 29 4-Chloroaniline              | 127   |     | Compound Not Detected. |        |         |          |                |             |
| 30 Hexachlorobutadiene          | 225   |     | Compound Not Detected. |        |         |          |                |             |
| 31 4-Chloro-3-methylphenol      | 107   |     | Compound Not Detected. |        |         |          |                |             |
| 32 2-Methylnaphthalene          | 142   |     | 13.019                 | 13.018 | (1.124) | 10891    | 0.10020        | 0.1002      |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                |             |

| Compounds                         | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE               | CONCENTRATIONS |            |
|-----------------------------------|-------|-----|--------|--------|---------|------------------------|----------------|------------|
|                                   |       |     |        |        |         |                        | ON-COLUMN      | FINAL      |
|                                   | MASS  |     |        |        |         |                        | (ug/mL)        | (ug/mL)    |
| =====                             | ===== |     | =====  | =====  | =====   | =====                  | =====          | =====      |
| 34 2,4,6-Trichlorophenol          | 196   |     |        |        |         | Compound Not Detected. |                |            |
| 35 2,4,5-Trichlorophenol          | 196   |     |        |        |         | Compound Not Detected. |                |            |
| \$ 36 2-Fluorobiphenyl            | 172   |     | 13.800 | 13.800 | (0.908) | 524912                 | 4.20030        | 4.200      |
| 37 2-Chloronaphthalene            | 162   |     |        |        |         | Compound Not Detected. |                |            |
| 38 2-Nitroaniline                 | 65    |     |        |        |         | Compound Not Detected. |                |            |
| 39 Dimethylphthalate              | 163   |     | 14.706 | 14.706 | (0.967) | 6048                   | 0.05893        | 0.05893    |
| 40 Acenaphthylene                 | 152   |     | 14.892 | 14.884 | (0.980) | 13131                  | 0.08328        | 0.08328    |
| 41 2,6-Dinitrotoluene             | 165   |     |        |        |         | Compound Not Detected. |                |            |
| * 42 Acenaphthene-d10             | 164   |     | 15.201 | 15.201 | (1.000) | 315922                 | 4.00000        |            |
| 43 3-Nitroaniline                 | 138   |     |        |        |         | Compound Not Detected. |                |            |
| 44 Acenaphthene                   | 153   |     | 15.271 | 15.263 | (1.005) | 7382                   | 0.07578        | 0.07578    |
| 45 2,4-Dinitrophenol              | 184   |     |        |        |         | Compound Not Detected. |                |            |
| 46 Dibenzofuran                   | 168   |     | 15.595 | 15.595 | (1.026) | 11963                  | 0.08328        | 0.08328    |
| 47 4-Nitrophenol                  | 109   |     |        |        |         | Compound Not Detected. |                |            |
| 48 2,4-Dinitrotoluene             | 165   |     |        |        |         | Compound Not Detected. |                |            |
| 50 Diethylphthalate               | 149   |     | 16.167 | 16.175 | (1.064) | 16951                  | 0.16834        | 0.1683     |
| 49 Fluorene                       | 166   |     | 16.314 | 16.314 | (1.073) | 10651                  | 0.09425        | 0.09425    |
| 51 4-Chlorophenyl-phenylether     | 204   |     |        |        |         | Compound Not Detected. |                |            |
| 52 4-Nitroaniline                 | 138   |     |        |        |         | Compound Not Detected. |                |            |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     |        |        |         | Compound Not Detected. |                |            |
| 54 N-Nitrosodiphenylamine         | 169   |     |        |        |         | Compound Not Detected. |                |            |
| \$ 55 2,4,6-Tribromophenol        | 330   |     | 16.854 | 16.846 | (1.109) | 128714                 | 8.75998        | 8.760      |
| 56 4-Bromophenyl-phenylether      | 248   |     |        |        |         | Compound Not Detected. |                |            |
| 57 Hexachlorobenzene              | 284   |     |        |        |         | Compound Not Detected. |                |            |
| 58 Pentachlorophenol              | 266   |     |        |        |         | Compound Not Detected. |                |            |
| * 59 Phenanthrene-d10             | 188   |     | 18.261 | 18.260 | (1.000) | 605413                 | 4.00000        |            |
| 60 Phenanthrene                   | 178   |     | 18.307 | 18.307 | (1.003) | 87990                  | 0.53300        | 0.5330     |
| 61 Anthracene                     | 178   |     | 18.400 | 18.400 | (1.008) | 49876                  | 0.31496        | 0.3150     |
| 62 Carbazole                      | 167   |     | 18.740 | 18.732 | (1.026) | 13710                  | 0.09662        | 0.09662    |
| 63 Di-n-butylphthalate            | 149   |     | 19.553 | 19.545 | (1.071) | 9948                   | 0.05213        | 0.05213    |
| 64 Fluoranthene                   | 202   |     | 20.752 | 20.713 | (0.888) | 269136                 | 1.23591        | 1.236      |
| 65 Pyrene                         | 202   |     | 21.154 | 21.139 | (0.906) | 284713                 | 1.27453        | 1.275      |
| \$ 66 Terphenyl-d14               | 244   |     | 21.441 | 21.433 | (0.918) | 710376                 | 4.23450        | 4.235      |
| 67 Butylbenzylphthalate           | 149   |     | 22.378 | 22.377 | (0.958) | 9252                   | 0.11799        | 0.1180     |
| 68 Benzo(a)anthracene             | 228   |     | 23.330 | 23.322 | (0.999) | 145343                 | 0.75980        | 0.7598     |
| * 69 Chrysene-d12                 | 240   |     | 23.361 | 23.353 | (1.000) | 541947                 | 4.00000        |            |
| 70 3,3'-Dichlorobenzidine         | 252   |     |        |        |         | Compound Not Detected. |                |            |
| 71 Chrysene                       | 228   |     | 23.407 | 23.399 | (1.002) | 203764                 | 1.09030        | 1.090      |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 23.423 | 23.415 | (0.959) | 176505                 | 1.30855        | 1.309      |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 24.437 | 24.421 | (1.000) | 921583                 | 4.00000        |            |
| 73 Di-n-octylphthalate            | 149   |     |        |        |         | Compound Not Detected. |                |            |
| 74 Benzo(b)fluoranthene           | 252   |     | 25.265 | 25.250 | (0.970) | 203090                 | 1.04847        | 1.048      |
| 75 Benzo(k)fluoranthene           | 252   |     | 25.304 | 25.296 | (0.971) | 228345                 | 1.16095        | 1.161      |
| 76 Benzo(a)pyrene                 | 252   |     | 25.939 | 25.923 | (0.996) | 146260                 | 0.84455        | 0.8446     |
| * 77 Perylene-d12                 | 264   |     | 26.055 | 26.040 | (1.000) | 597568                 | 4.00000        |            |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 28.824 | 28.793 | (1.106) | 92627                  | 0.42041        | 0.4204     |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 28.832 | 28.816 | (1.107) | 23430                  | 0.12809        | 0.1281 (M) |
| 80 Benzo(g,h,i)perylene           | 276   |     | 29.640 | 29.601 | (1.138) | 87496                  | 0.45887        | 0.4589     |
| 90 N-Nitrosodimethylamine         | 74    |     |        |        |         | Compound Not Detected. |                |            |
| 91 Aniline                        | 93    |     |        |        |         | Compound Not Detected. |                |            |
| 93 Benzidine                      | 184   |     |        |        |         | Compound Not Detected. |                |            |
| 103 Pyridine                      | 79    |     |        |        |         | Compound Not Detected. |                |            |
| 105 1-methylnaphthalene           | 142   |     | 13.235 | 13.235 | (1.143) | 8673                   | 0.08709        | 0.08709    |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     |        |        |         | Compound Not Detected. |                |            |

| Compounds                     | QUANT SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|
|                               |           |                        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 25.265                 | 25.296 | (0.970) | 401171   | 2.14502              | 2.145            |
| 120 2,3,4,6-Tetrachlorophenol | 232       | Compound Not Detected. |        |         |          |                      |                  |

QC Flag Legend

M - Compound response manually integrated.



ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-MAR-2023  
 Lab File ID: NT1003222327.D Calibration Time: 03:15  
 Lab Smp Id: 23A0179-11RE1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 137603   | 68802      | 275206  | 155943 | 13.33 |
| 27 Naphthalene-d8     | 494588   | 247294     | 989176  | 568533 | 14.95 |
| 42 Acenaphthene-d10   | 278674   | 139337     | 557348  | 315922 | 13.37 |
| 59 Phenanthrene-d10   | 509229   | 254615     | 1018458 | 605413 | 18.89 |
| 69 Chrysene-d12       | 462271   | 231136     | 924542  | 541947 | 17.24 |
| 134 Di-n-octylphthala | 782572   | 391286     | 1565144 | 921583 | 17.76 |
| 77 Perylene-d12       | 551153   | 275577     | 1102306 | 597568 | 8.42  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.09     | 8.59     | 9.59  | 9.09   | 0.00  |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.58  | 0.07  |
| 42 Acenaphthene-d10   | 15.20    | 14.70    | 15.70 | 15.20  | 0.00  |
| 59 Phenanthrene-d10   | 18.26    | 17.76    | 18.76 | 18.26  | 0.00  |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.36  | 0.03  |
| 134 Di-n-octylphthala | 24.42    | 23.92    | 24.92 | 24.44  | 0.06  |
| 77 Perylene-d12       | 26.04    | 25.54    | 26.54 | 26.06  | 0.06  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222327.D

Lab ID: 23A0179-11RE1  
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 09:33

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND     |
|-------|---------|---------|--------------|
| 0.952 | 0.960   | -0.0080 | Benzoic acid |

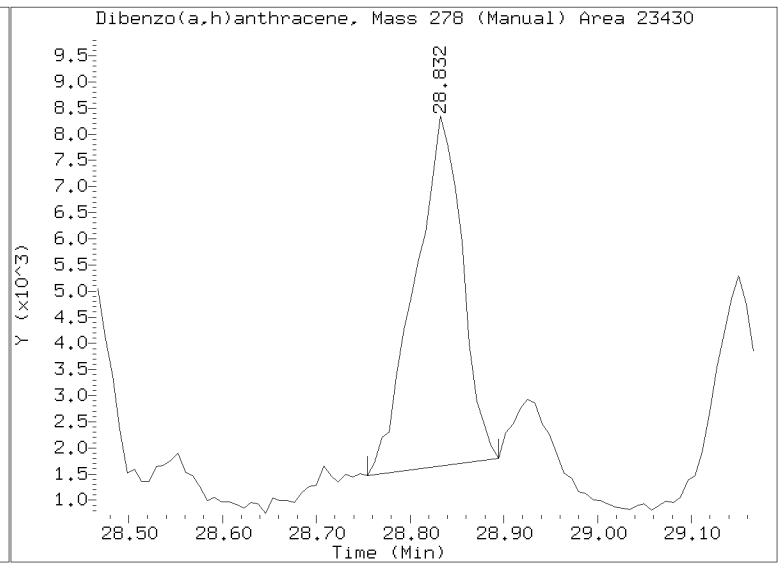
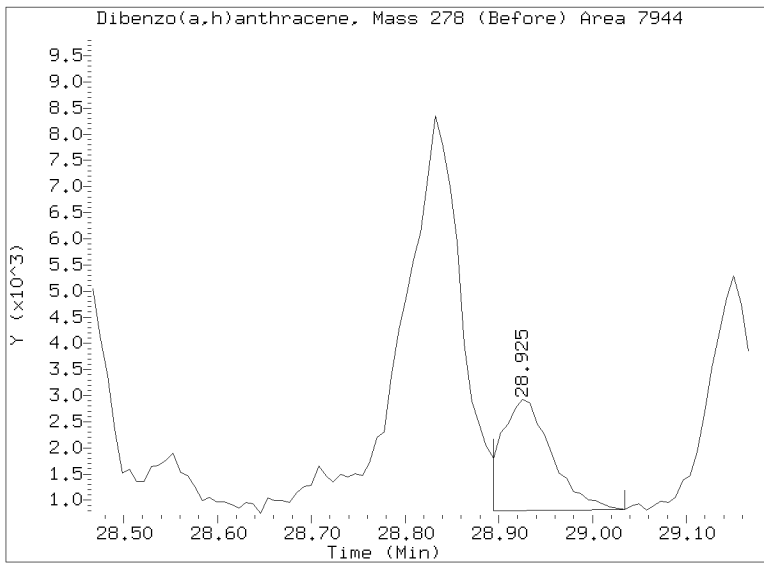
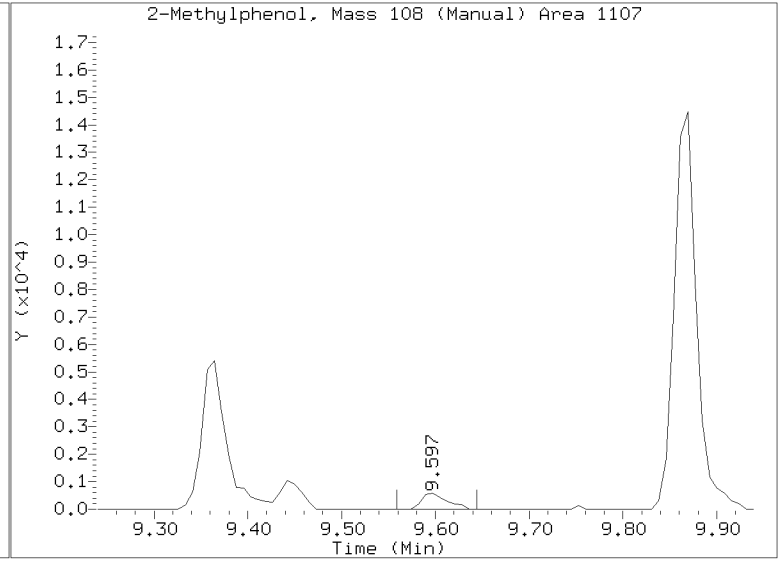
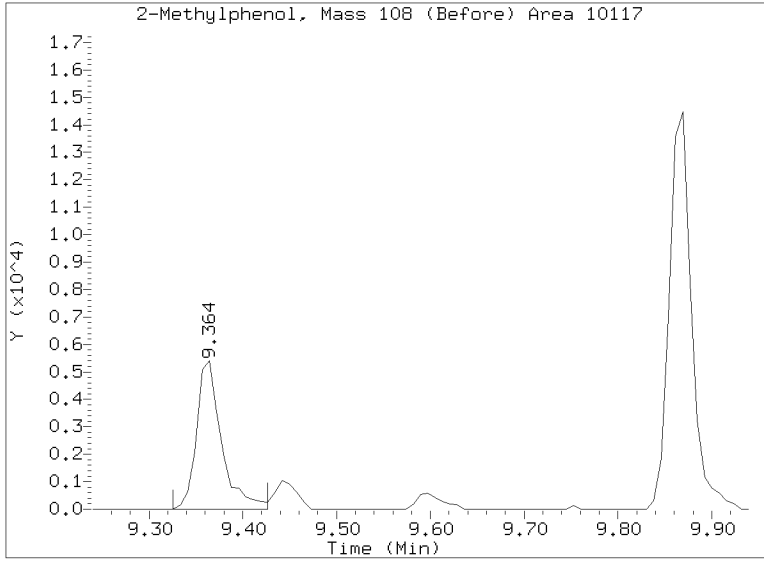
RRT check based on Ccal File: NT1003222317.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222327.D  
Injection Date: 23-MAR-2023 09:33  
Lab ID:23A0179-11RE1 Client ID:  
Report Date: 03/25/2023 10:16





Form I  
ORGANIC ANALYSIS DATA SHEET  
EPA 8270E  
Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-12RE1 A

SDG: 23A0179

Sampled: 01/10/23 12:48

Prepared: 03/17/23 11:16

File ID: NT1003222328.D

% Solids: 49.35

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 10:11

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 20.27 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| CAS NO.  | COMPOUND                    | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|-----------------------------|----------|----------------------|---|------|------|
| 108-95-2 | Phenol                      | 1        | 241                  |   | 4.4  | 20.0 |
| 106-44-5 | 4-Methylphenol              | 1        | 26.4                 |   | 7.4  | 20.0 |
| 91-20-3  | Naphthalene                 | 1        | 13.7                 | J | 4.2  | 20.0 |
| 91-57-6  | 2-Methylnaphthalene         | 1        | 11.3                 | J | 4.5  | 20.0 |
| 208-96-8 | Acenaphthylene              | 1        | 9.1                  | J | 6.2  | 20.0 |
| 131-11-3 | Dimethylphthalate           | 1        | 20.0                 | U | 4.4  | 20.0 |
| 83-32-9  | Acenaphthene                | 1        | 9.1                  | J | 5.2  | 20.0 |
| 132-64-9 | Dibenzofuran                | 1        | 20.0                 | U | 14.1 | 20.0 |
| 86-73-7  | Fluorene                    | 1        | 16.4                 | J | 14.6 | 20.0 |
| 85-01-8  | Phenanthrene                | 1        | 73.9                 |   | 8.7  | 20.0 |
| 120-12-7 | Anthracene                  | 1        | 44.1                 |   | 7.2  | 20.0 |
| 206-44-0 | Fluoranthene                | 1        | 157                  |   | 6.1  | 20.0 |
| 129-00-0 | Pyrene                      | 1        | 155                  |   | 5.7  | 20.0 |
| 85-68-7  | Butylbenzylphthalate        | 1        | 17.9                 | J | 9.4  | 20.0 |
| 56-55-3  | Benzo(a)anthracene          | 1        | 96.8                 |   | 6.0  | 20.0 |
| 218-01-9 | Chrysene                    | 1        | 135                  |   | 6.1  | 20.0 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate  | 1        | 161                  |   | 5.5  | 50.0 |
|          | Benzo(a)fluoranthene, Total | 1        | 259                  |   | 10.0 | 40.0 |
| 50-32-8  | Benzo(a)pyrene              | 1        | 100                  |   | 4.2  | 20.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene      | 1        | 50.1                 |   | 14.6 | 20.0 |
| 53-70-3  | Dibenzo(a,h)anthracene      | 1        | 20.0                 | U | 17.2 | 20.0 |
| 191-24-2 | Benzo(g,h,i)perylene        | 1        | 53.9                 |   | 13.6 | 20.0 |

| SURROGATES             | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol         | 749.76                | 537                   | 71.7  | 27 - 120  |   |
| Phenol-d5              | 749.76                | 549                   | 73.2  | 29 - 120  |   |
| 2-Chlorophenol-d4      | 749.76                | 592                   | 78.9  | 31 - 120  |   |
| 1,2-Dichlorobenzene-d4 | 499.84                | 353                   | 70.6  | 32 - 120  |   |
| Nitrobenzene-d5        | 499.84                | 370                   | 74.0  | 30 - 120  |   |
| 2-Fluorobiphenyl       | 499.84                | 402                   | 80.5  | 35 - 120  |   |



**Form I**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8270E**  
**Semivolatiles (20ug/kg - 0.2ug/L SepF)**

Laboratory: Analytical Resources, LLC  
 Client: Anchor OEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment  
 Sampled: 01/10/23 12:48  
 % Solids: 49.35  
 Batch: BLC0442  
 Instrument: NT10  
 Cleanups: GPC

Laboratory ID: 23A0179-12RE1 A  
 Prepared: 03/17/23 11:16  
 Preparation: EPA 3546 (Microwave)  
 Sequence: SLC0397  
 Column: ZB-5MSi

SDG: 23A0179  
 File ID: NT1003222328.D  
 Analyzed: 03/23/23 10:11  
 Initial/Final: 20.27 g Wet / 1 mL  
 Calibration: GC00046

| SURROGATES           | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------|-----------------------|-----------------------|-------|-----------|---|
| 2,4,6-Tribromophenol | 749.76                | 838                   | 112   | 24 - 134  |   |
| p-Terphenyl-d14      | 499.84                | 399                   | 79.9  | 37 - 120  |   |

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222328.D

Date: 23-MAR-2023 10:11

Client ID:

Sample Info: 23A0179-12RE1

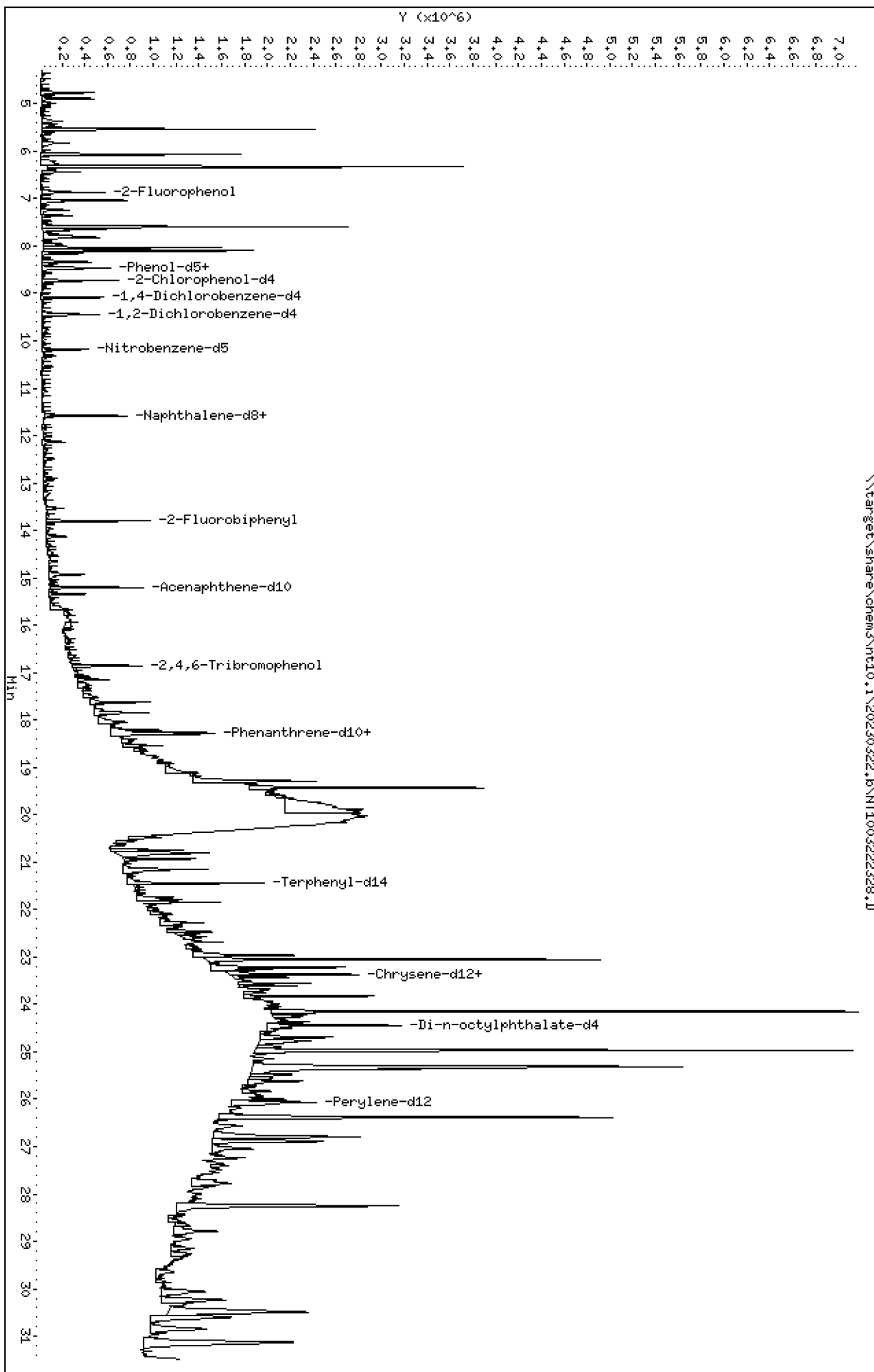
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\NT1003222328.D



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

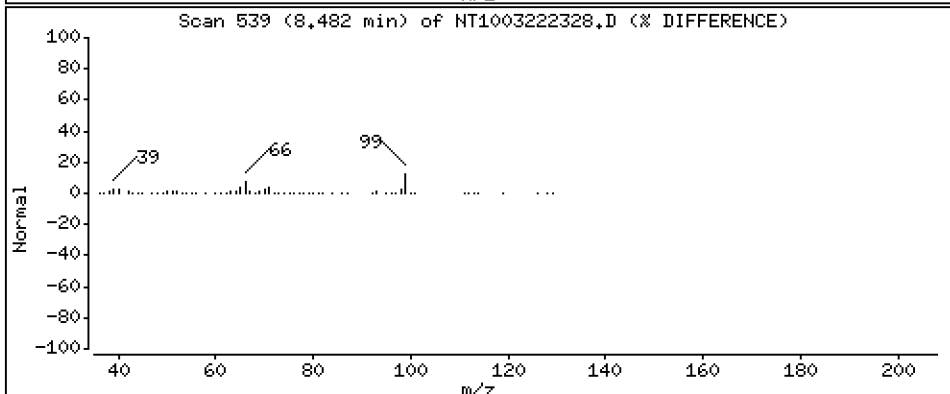
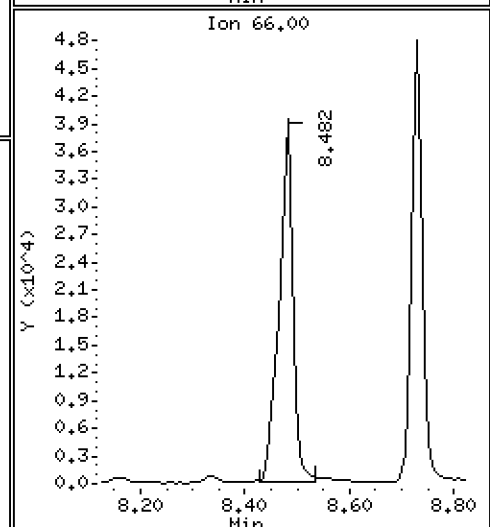
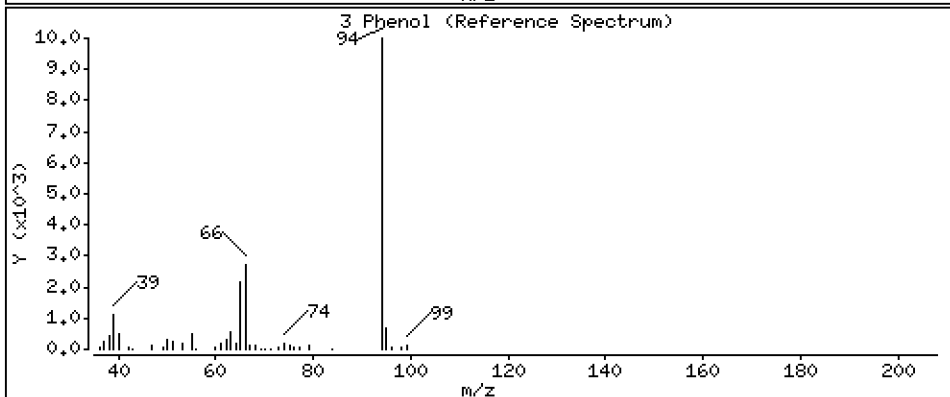
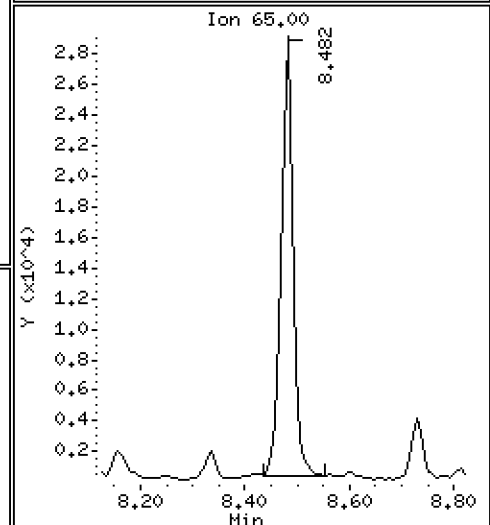
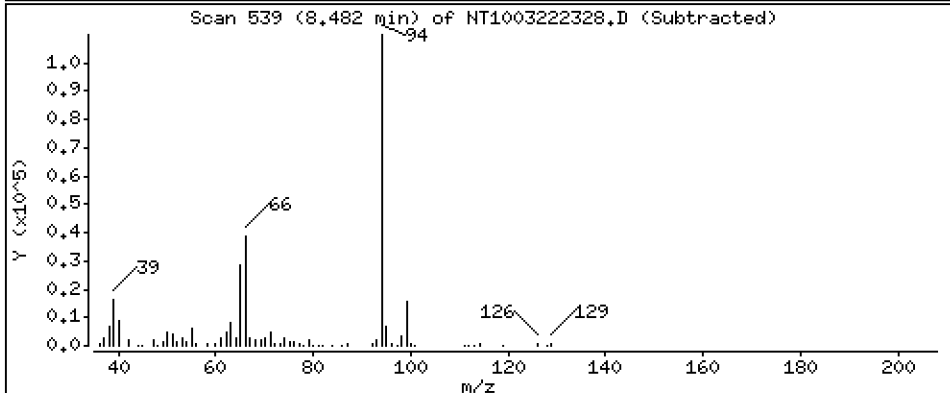
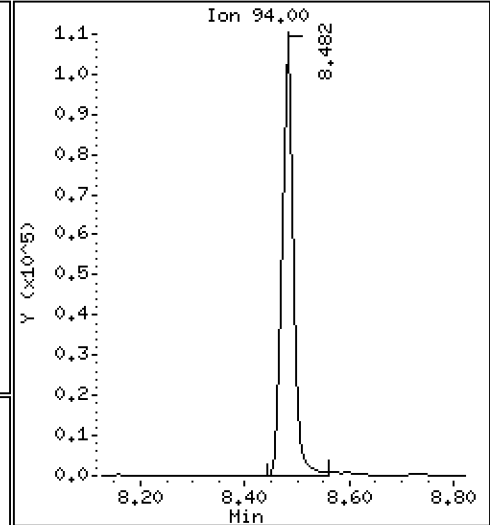
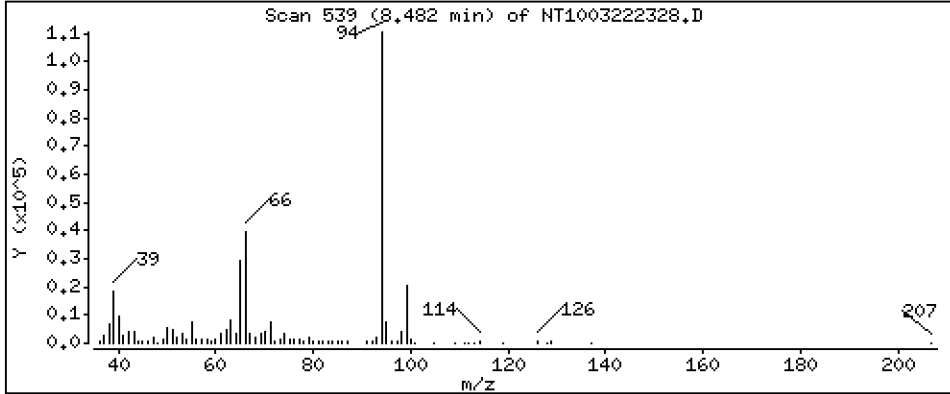
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 2,413 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

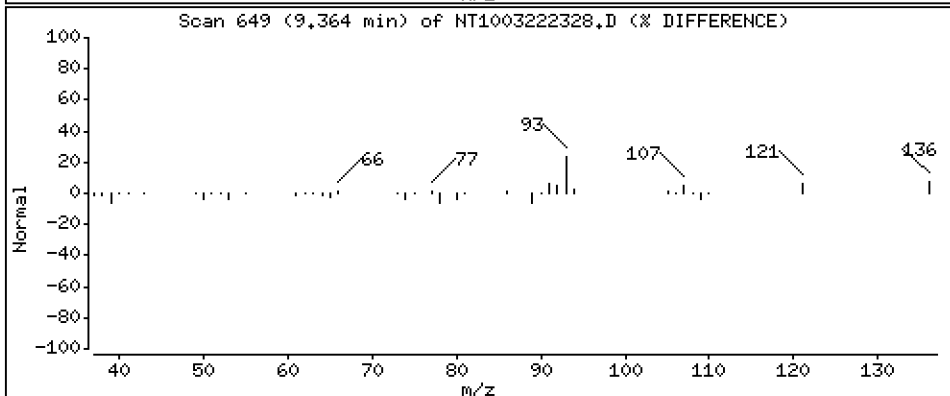
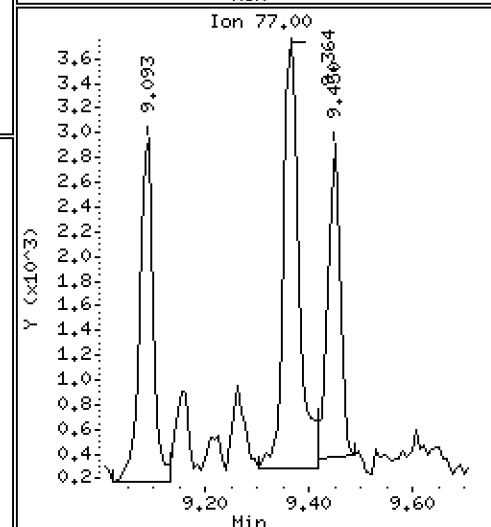
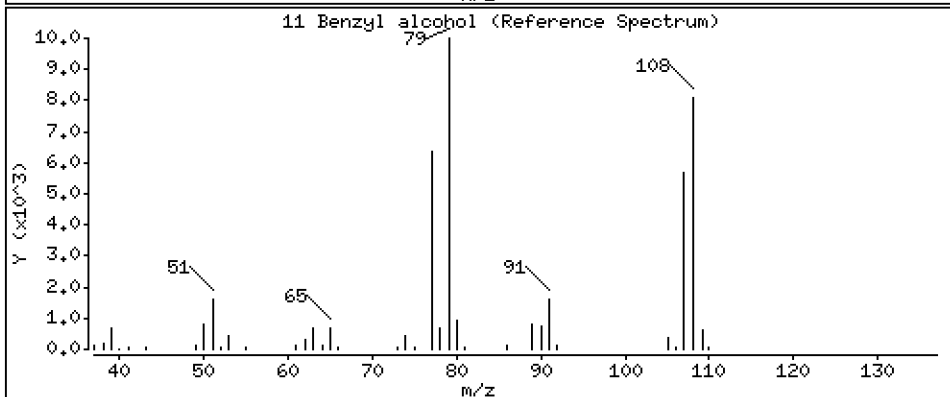
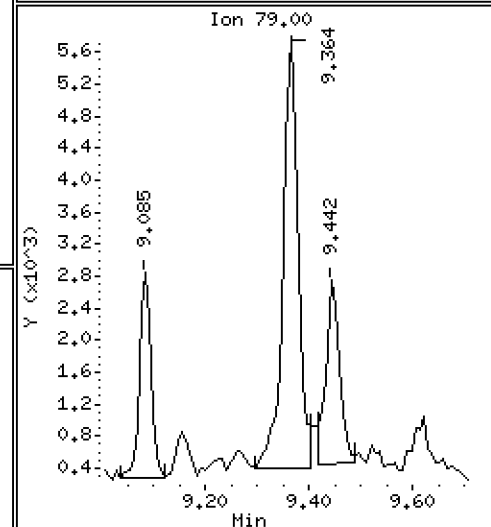
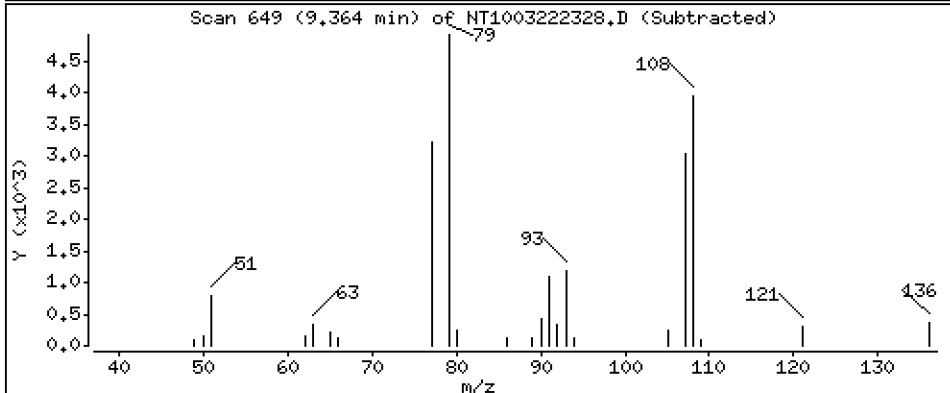
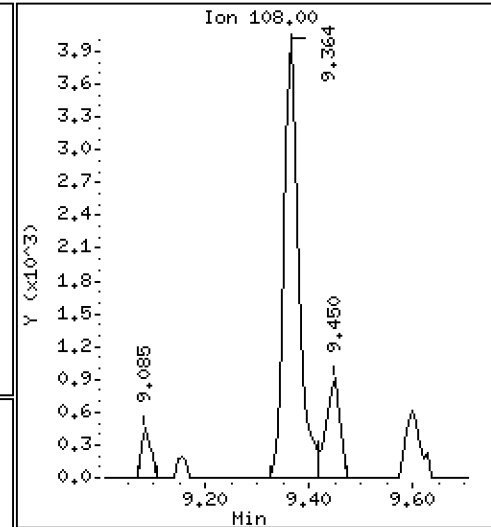
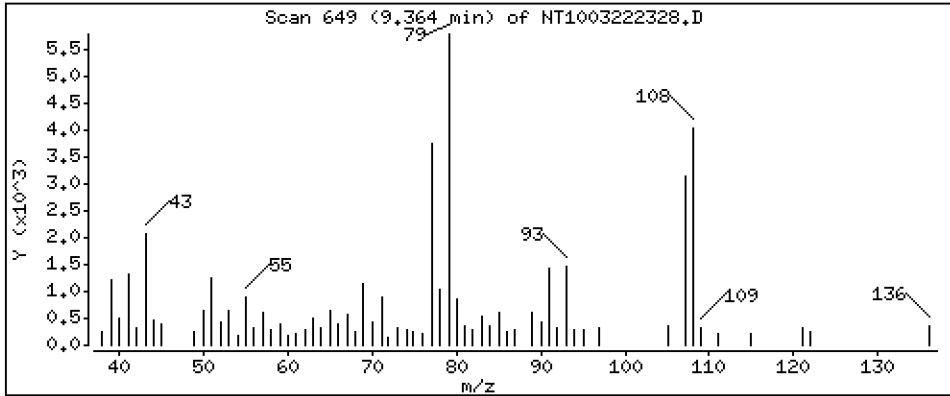
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.2439 ug/mL





Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

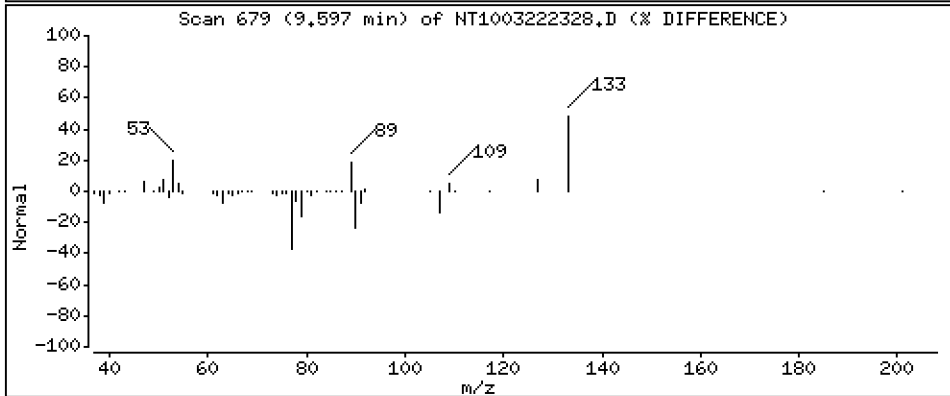
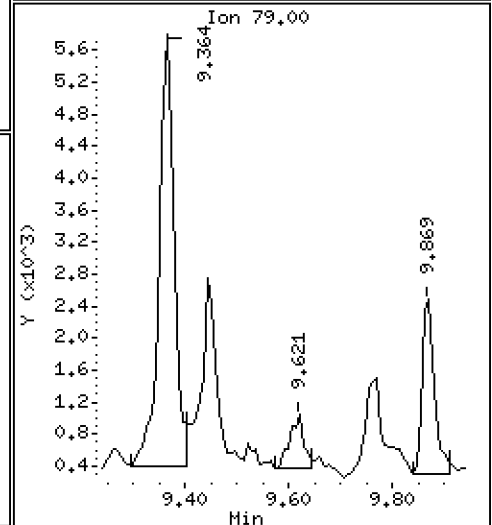
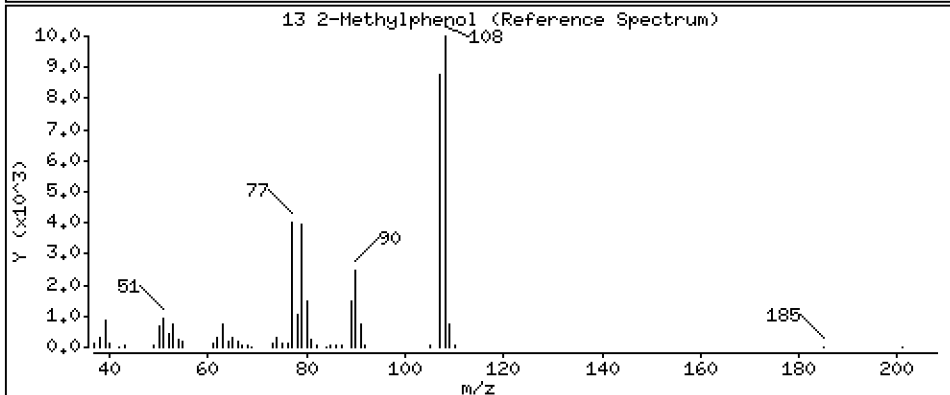
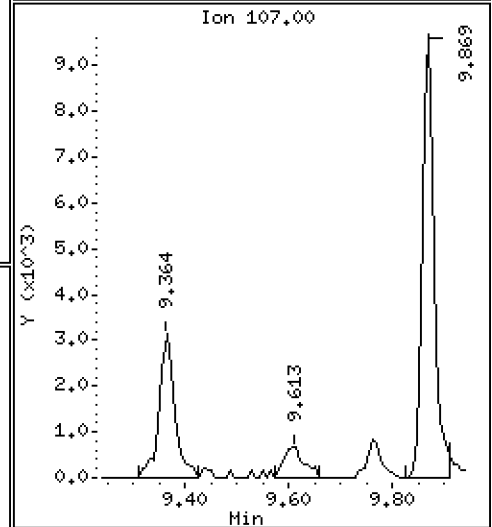
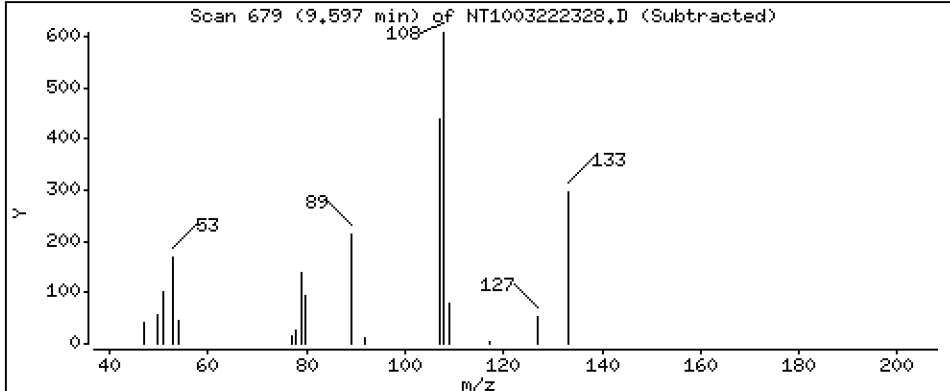
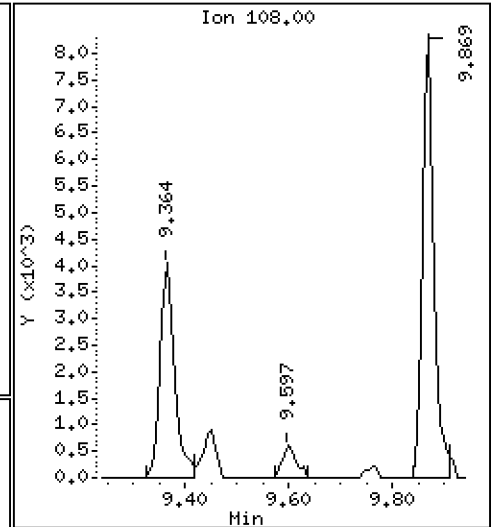
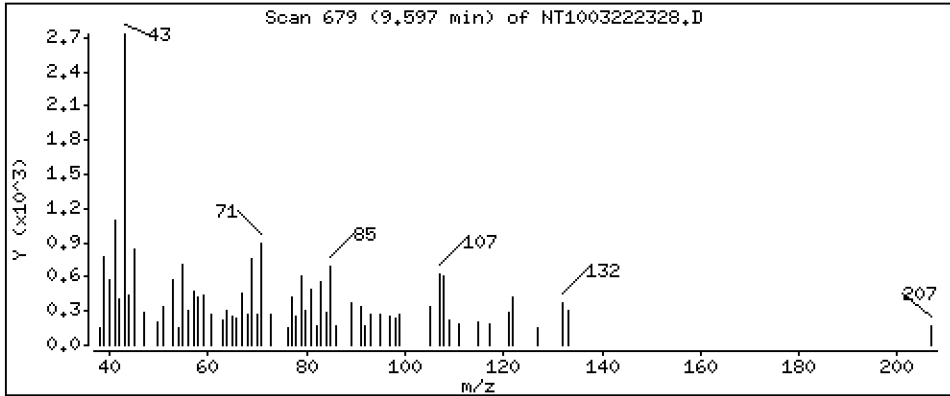
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Concentration: 0.02360 ug/mL

13 2-Methylphenol



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

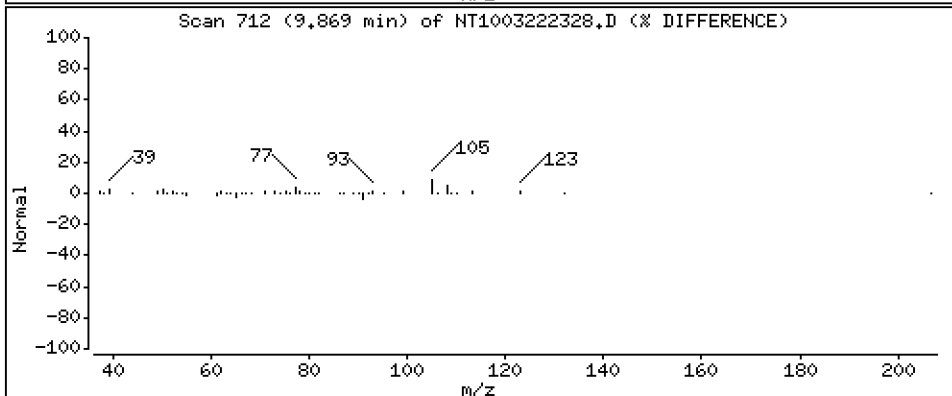
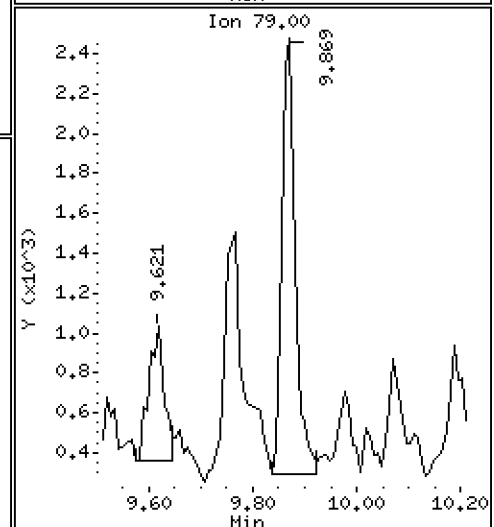
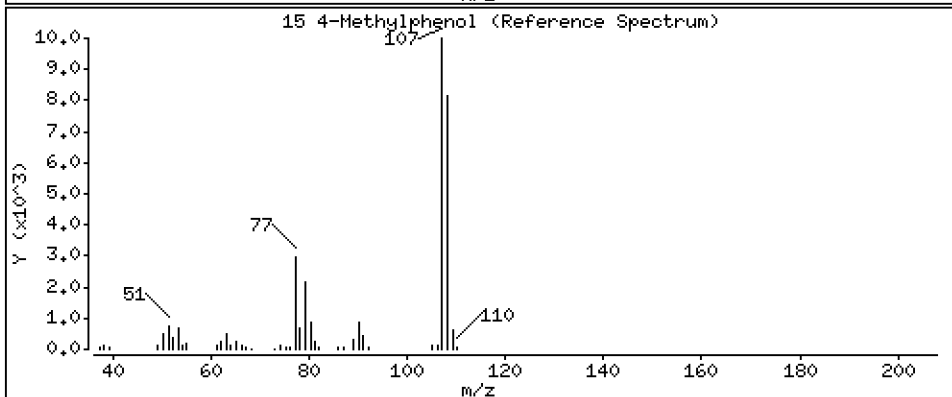
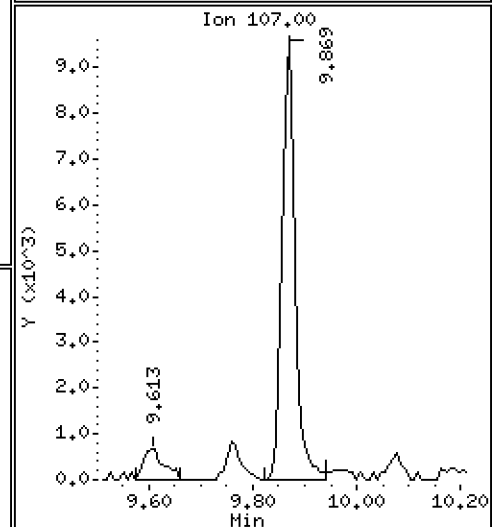
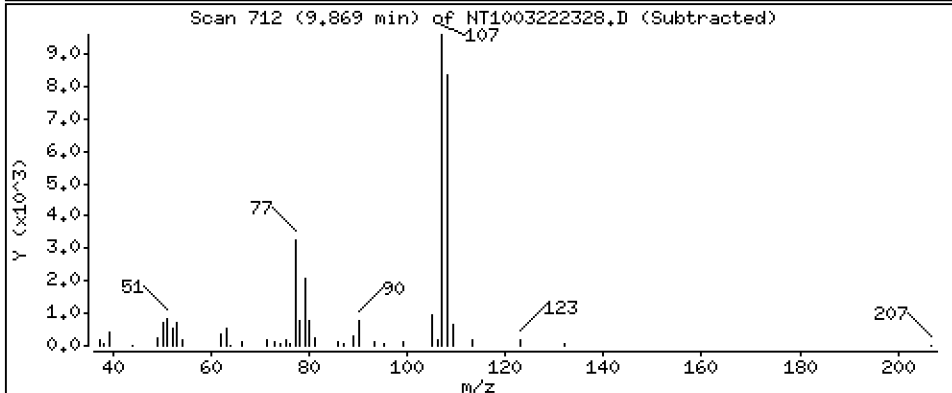
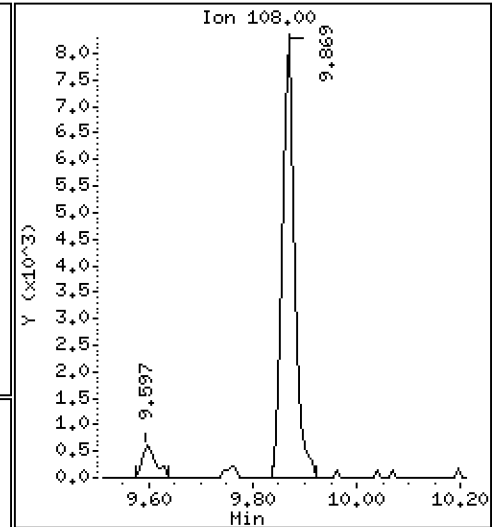
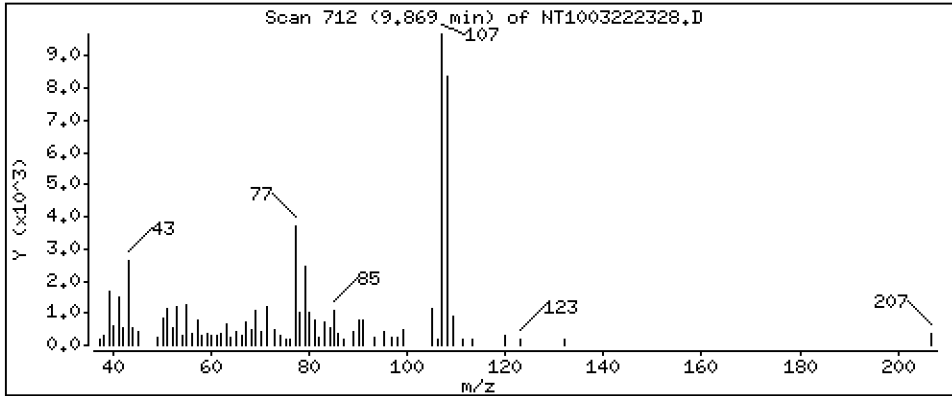
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,2639 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

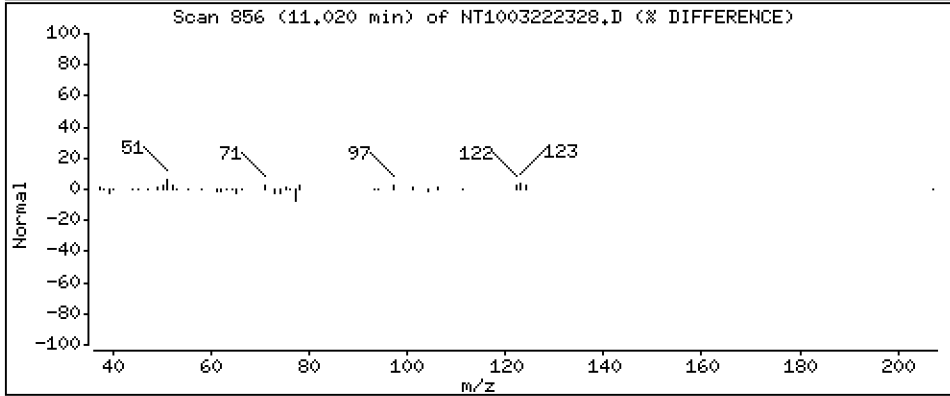
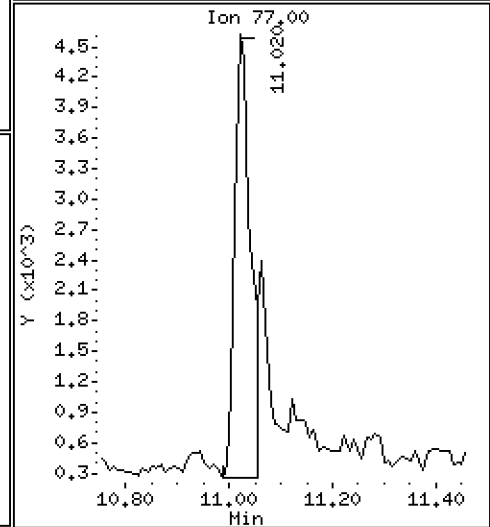
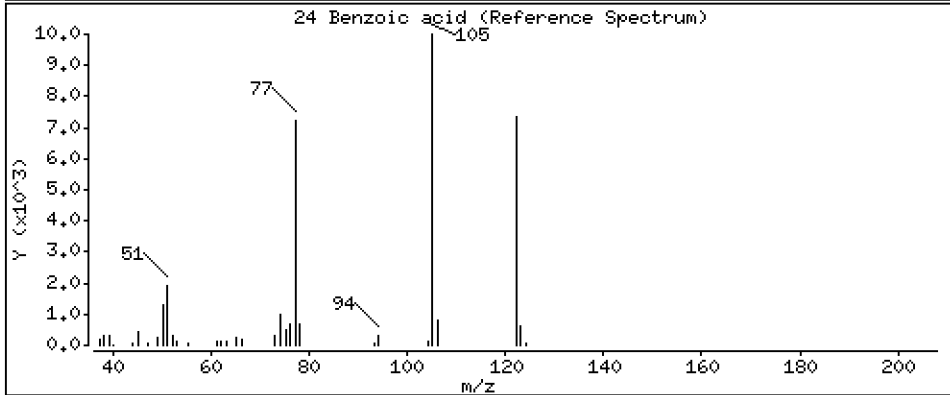
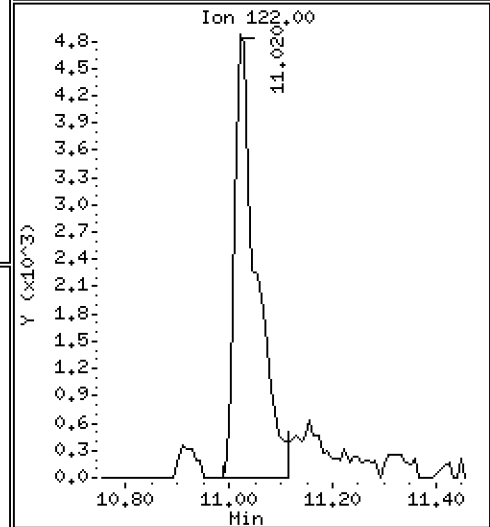
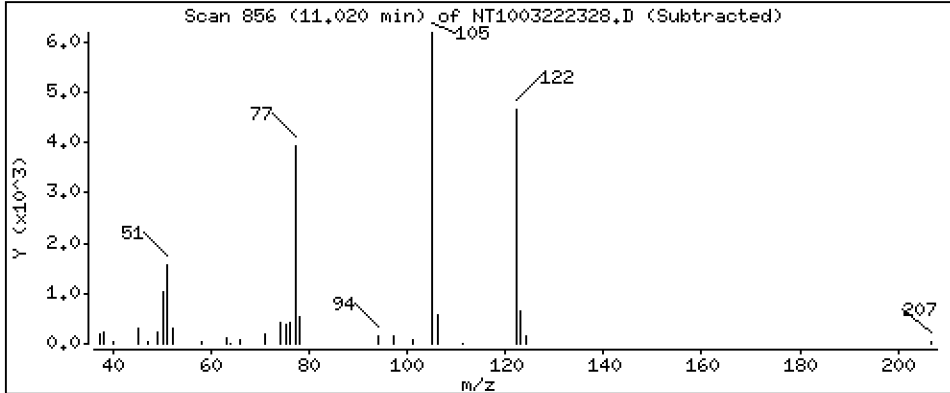
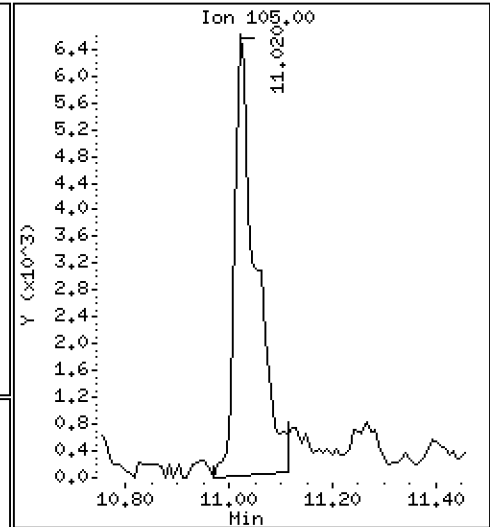
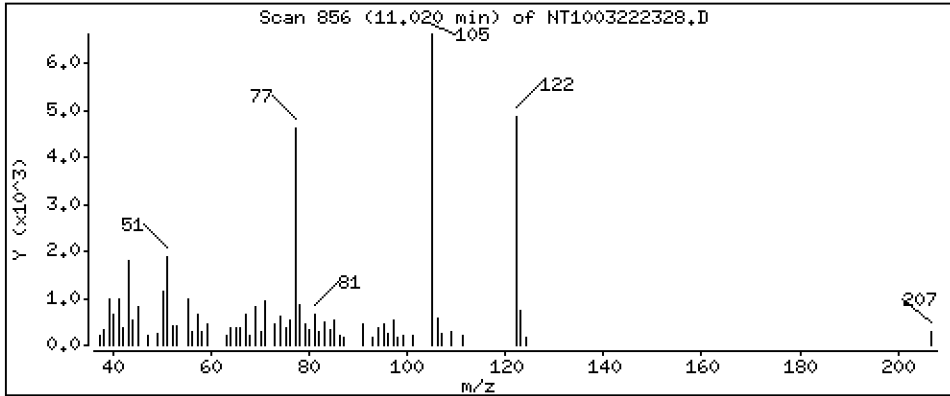
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.6518 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

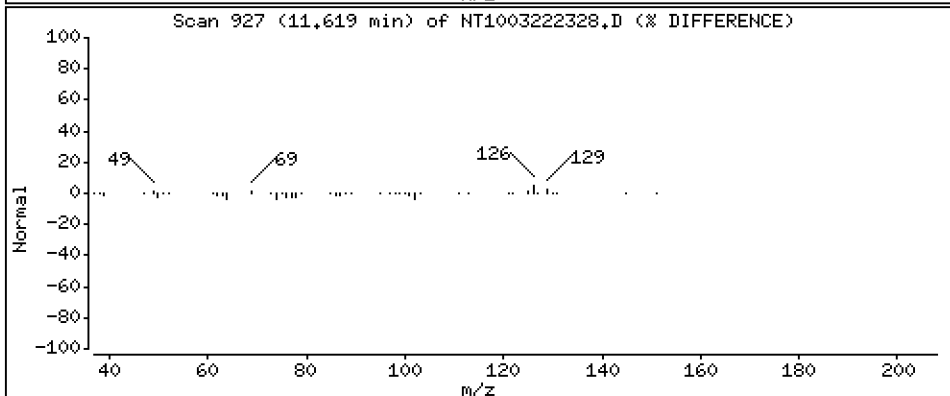
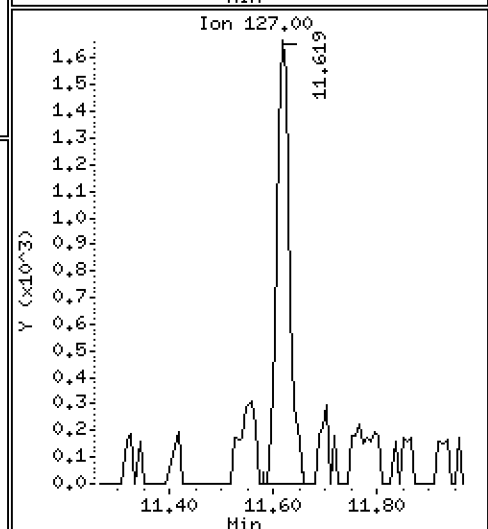
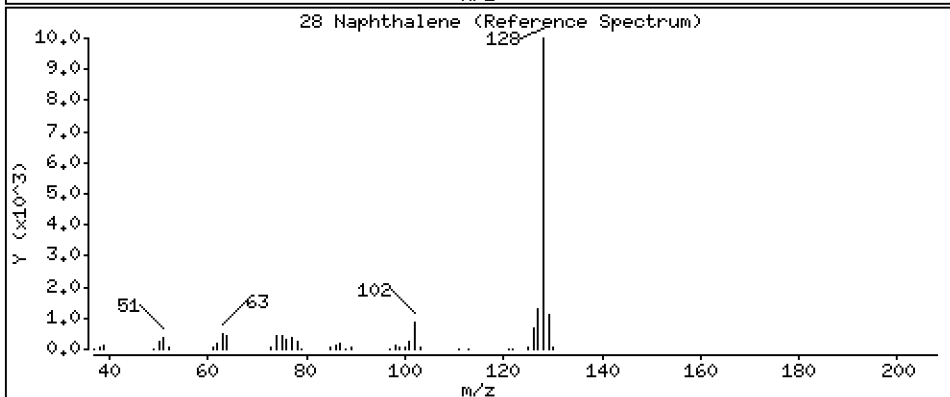
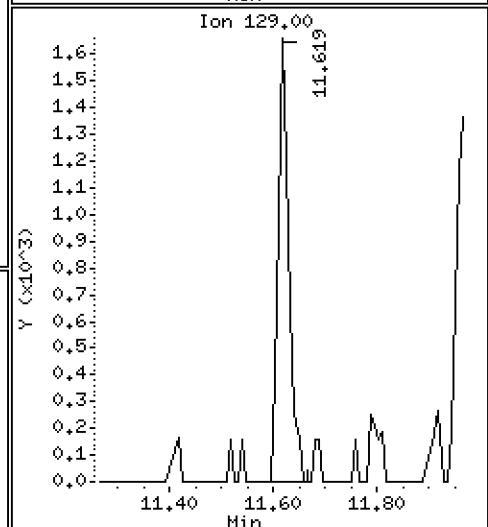
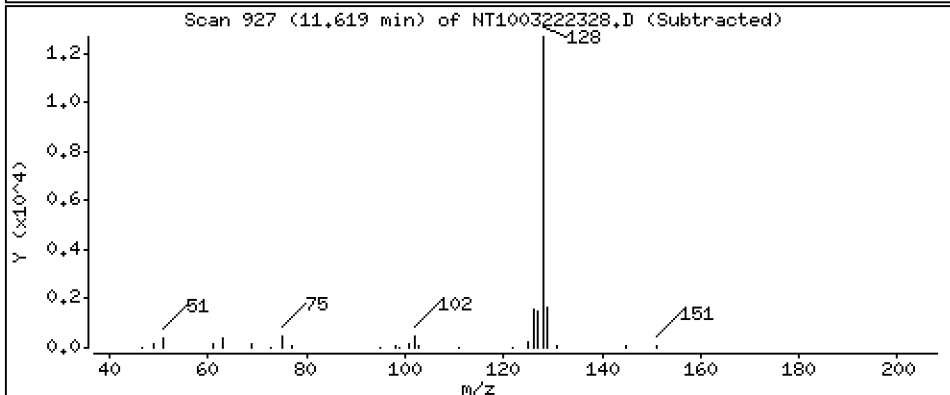
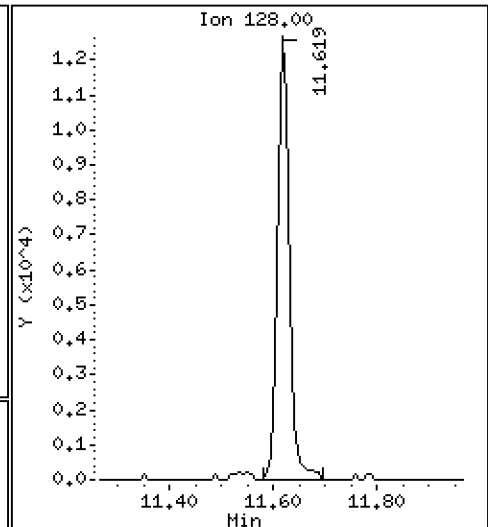
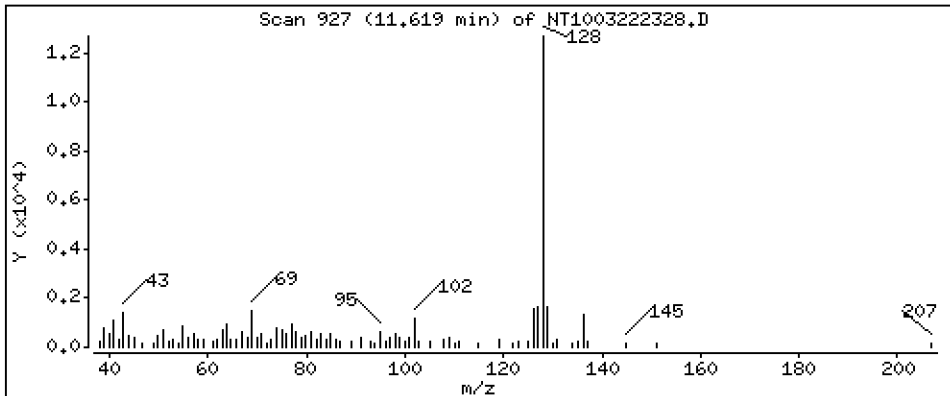
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 0.1368 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

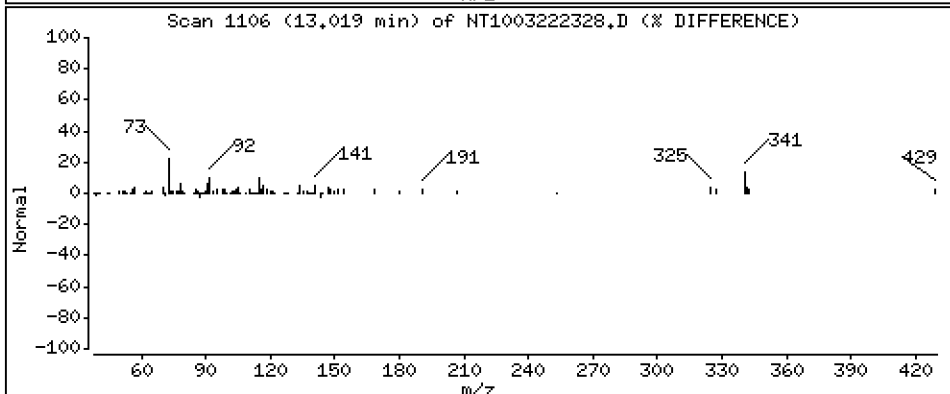
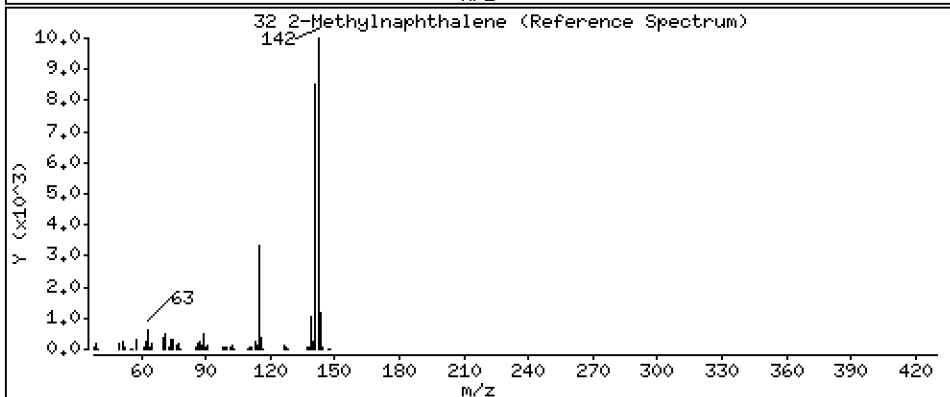
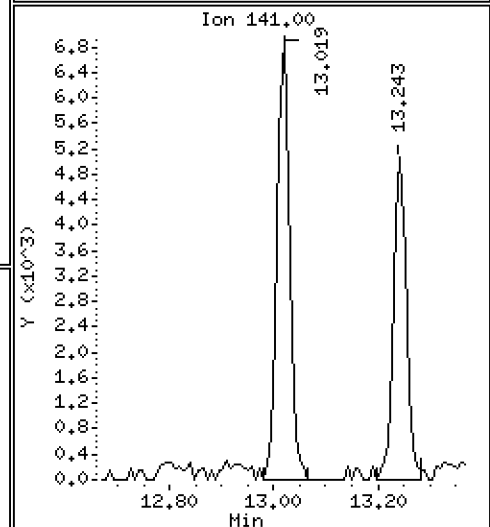
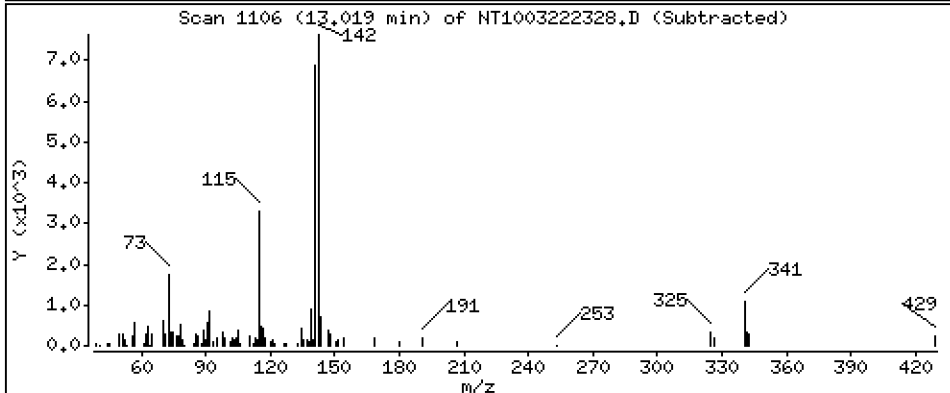
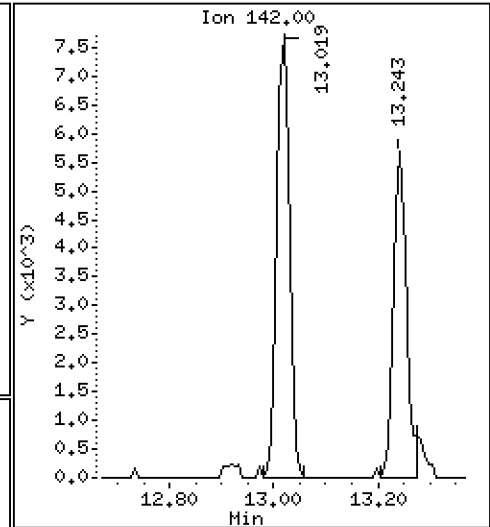
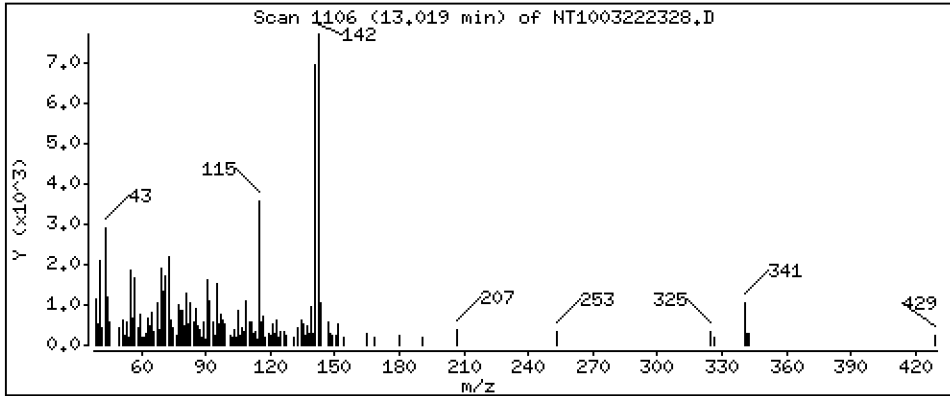
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1128 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

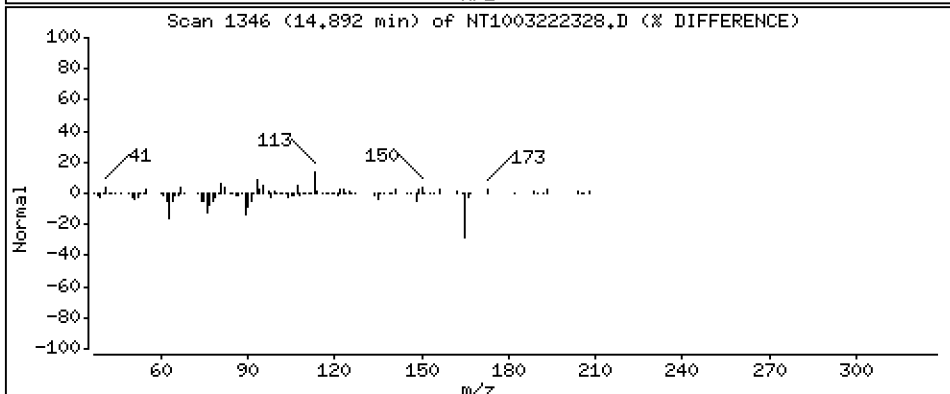
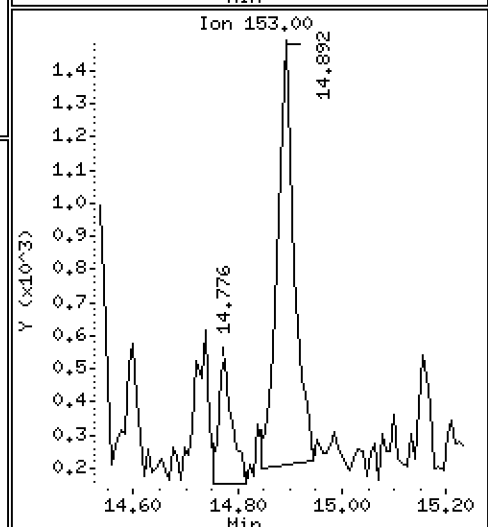
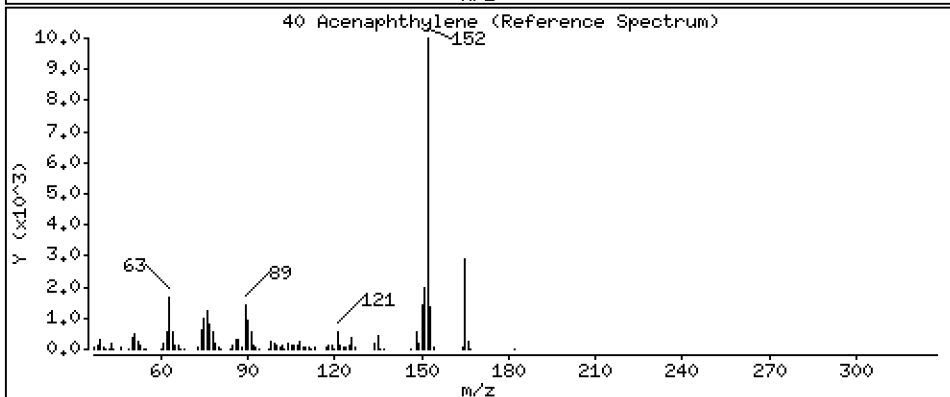
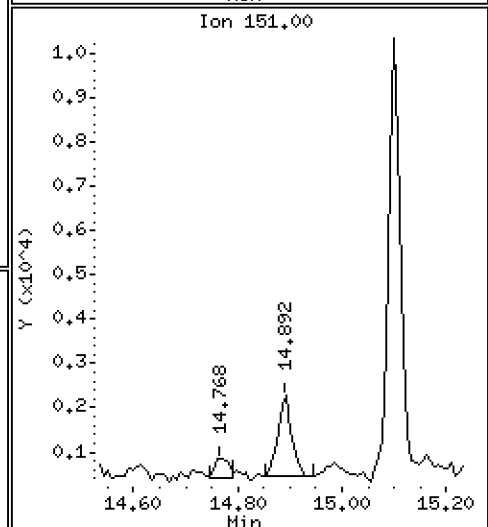
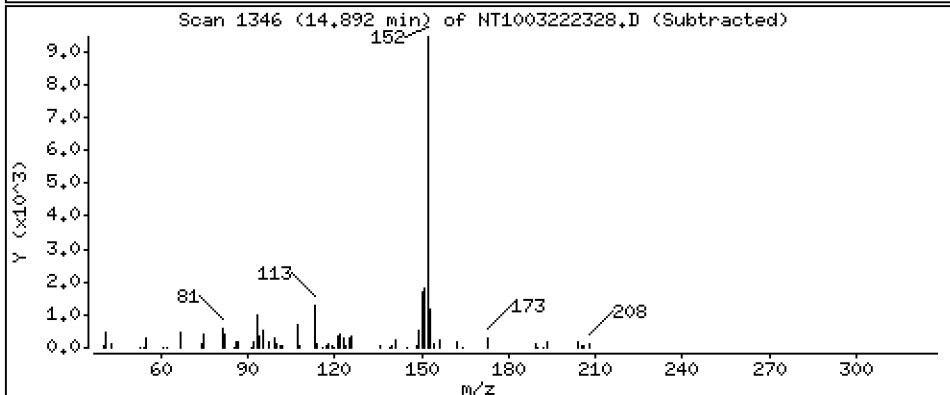
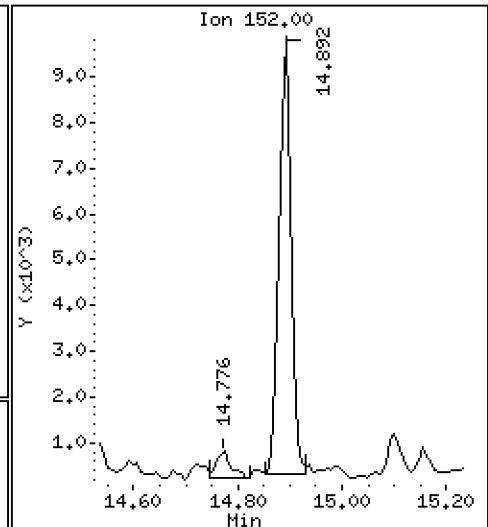
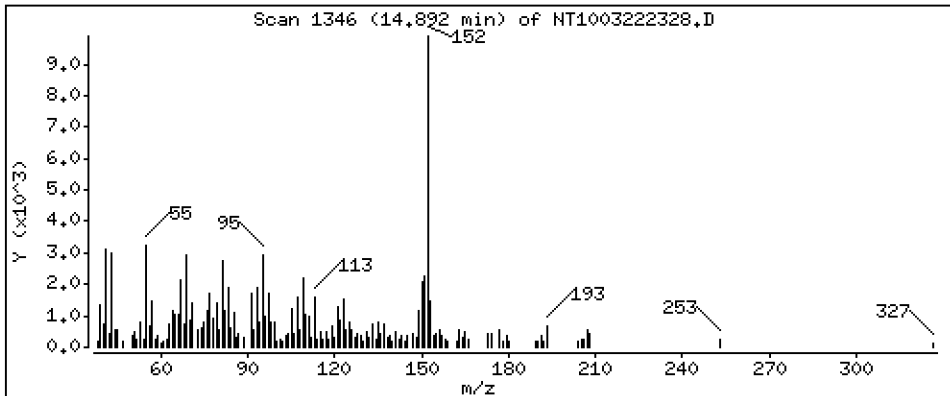
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 0.09132 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

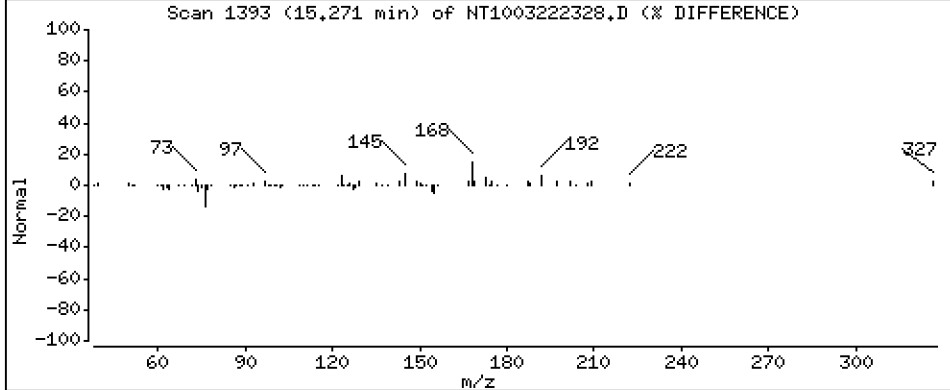
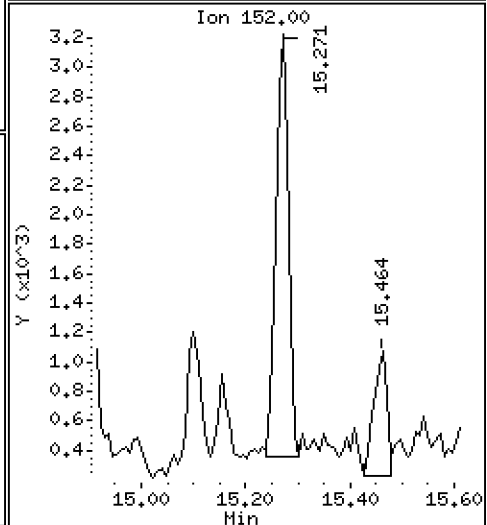
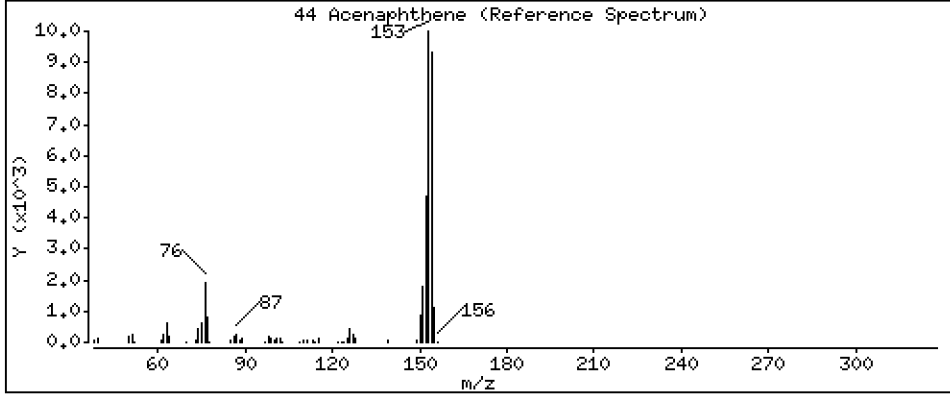
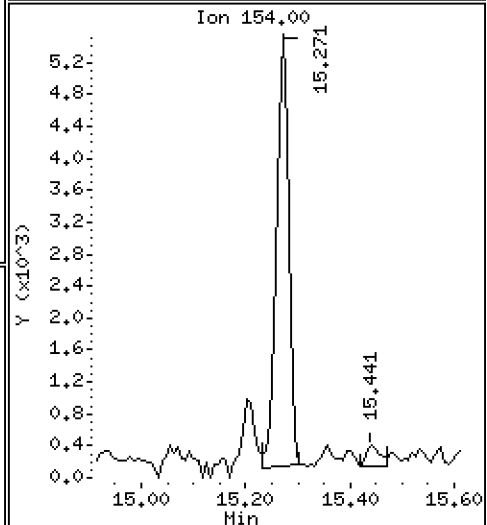
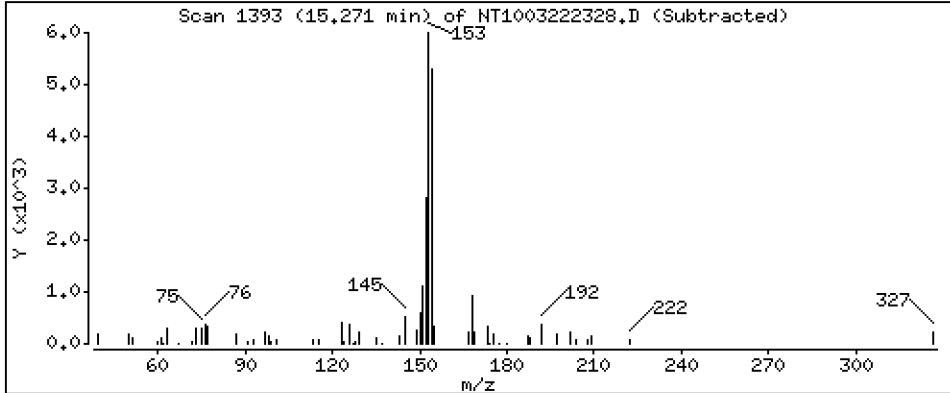
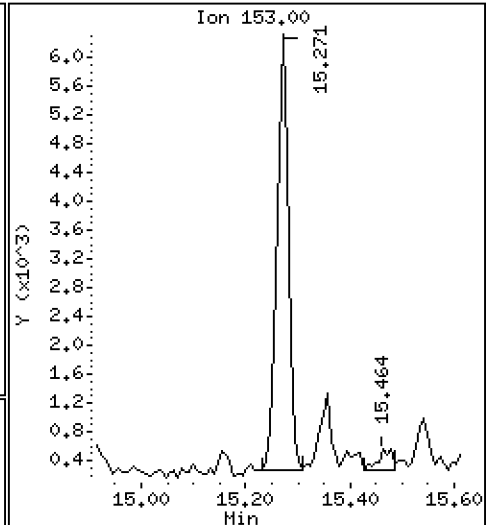
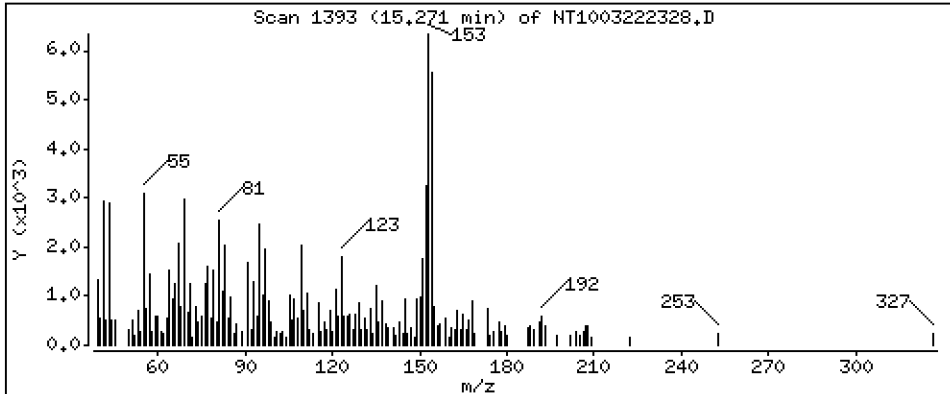
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,09130 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

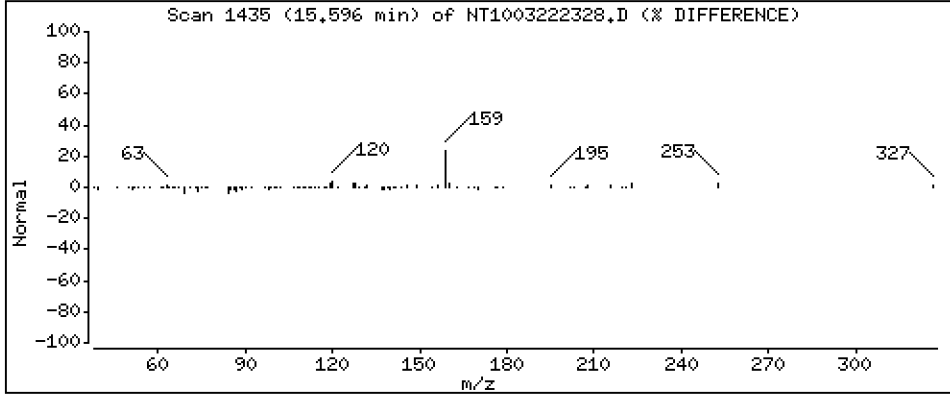
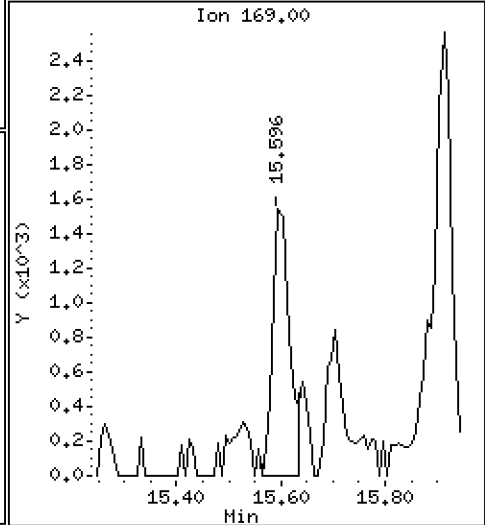
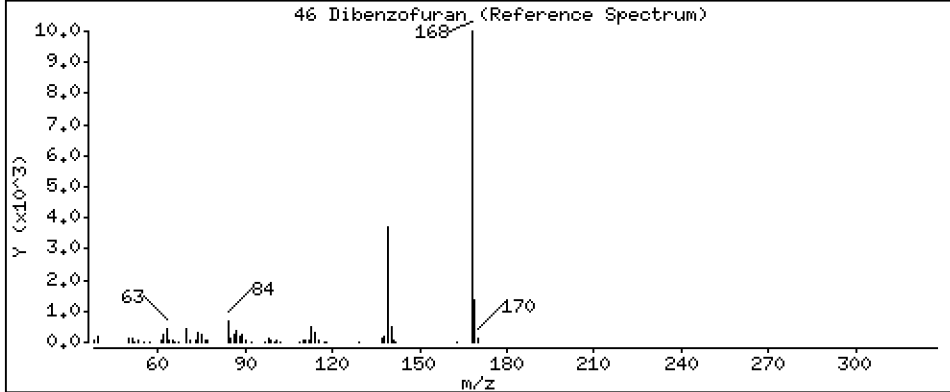
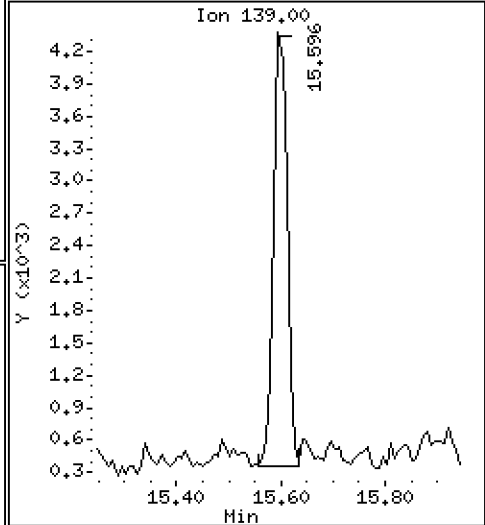
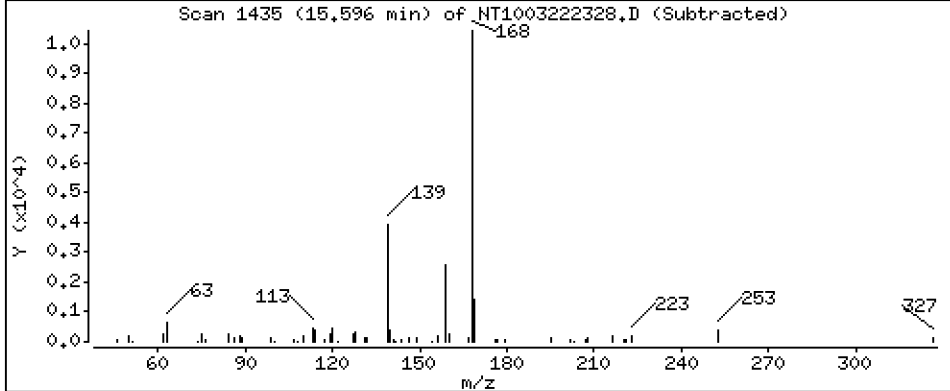
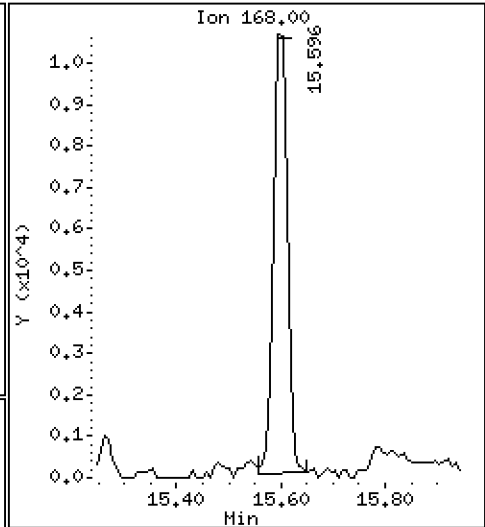
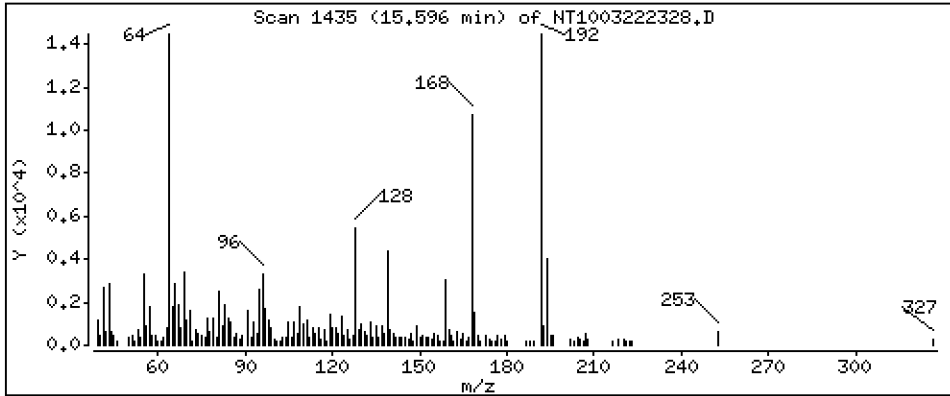
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,1259 ug/mL





Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

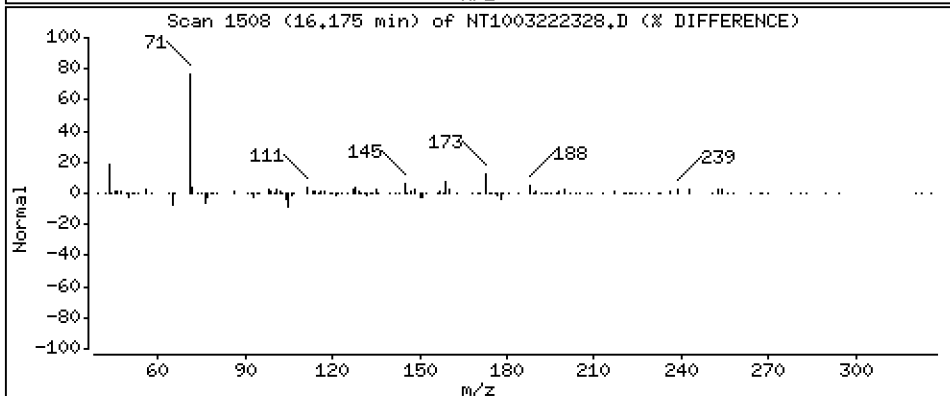
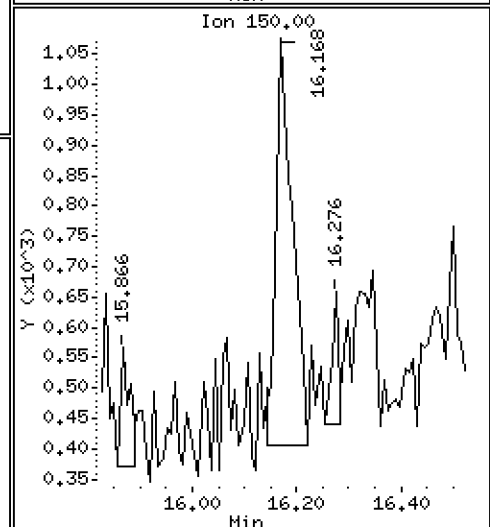
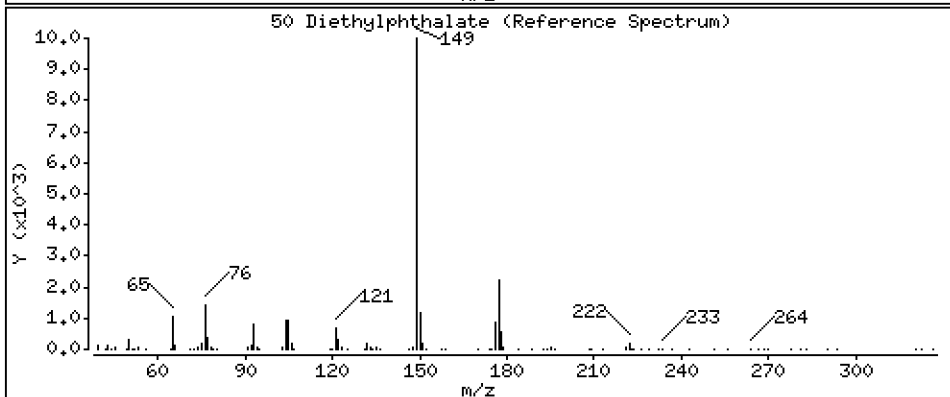
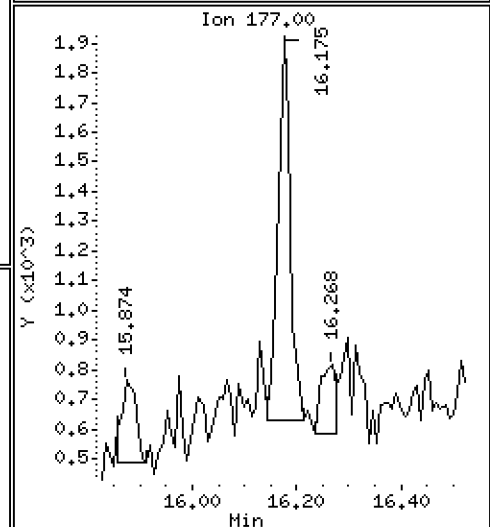
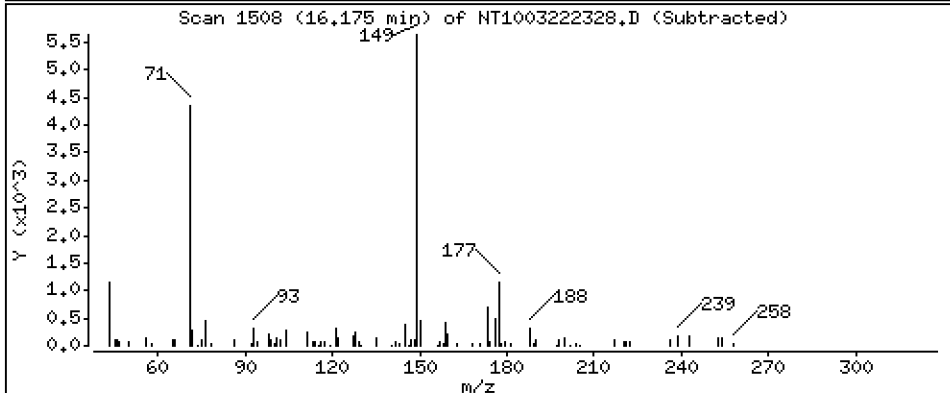
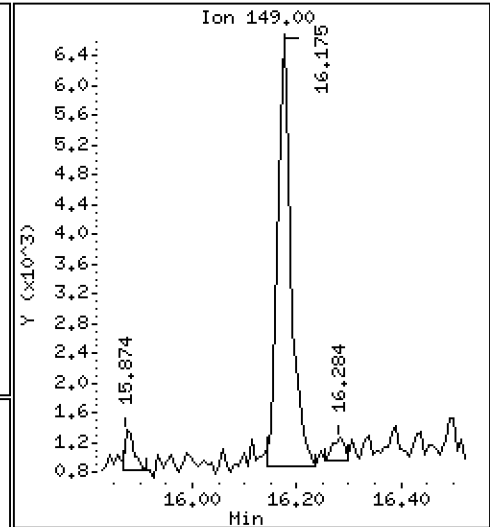
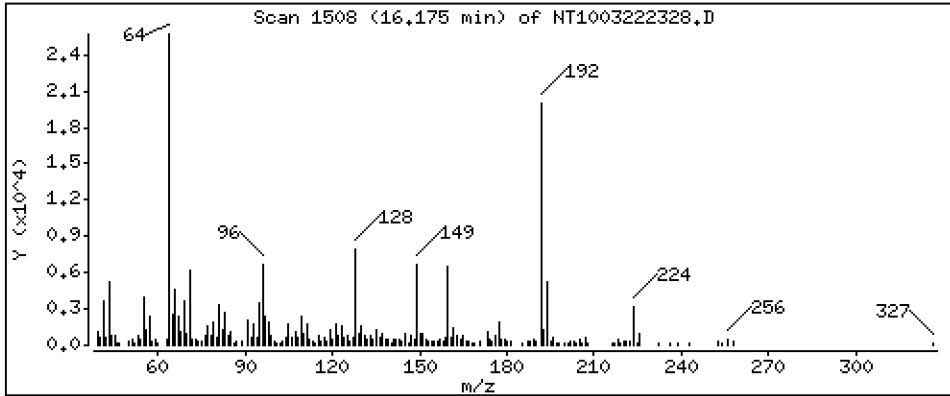
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 0.1064 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

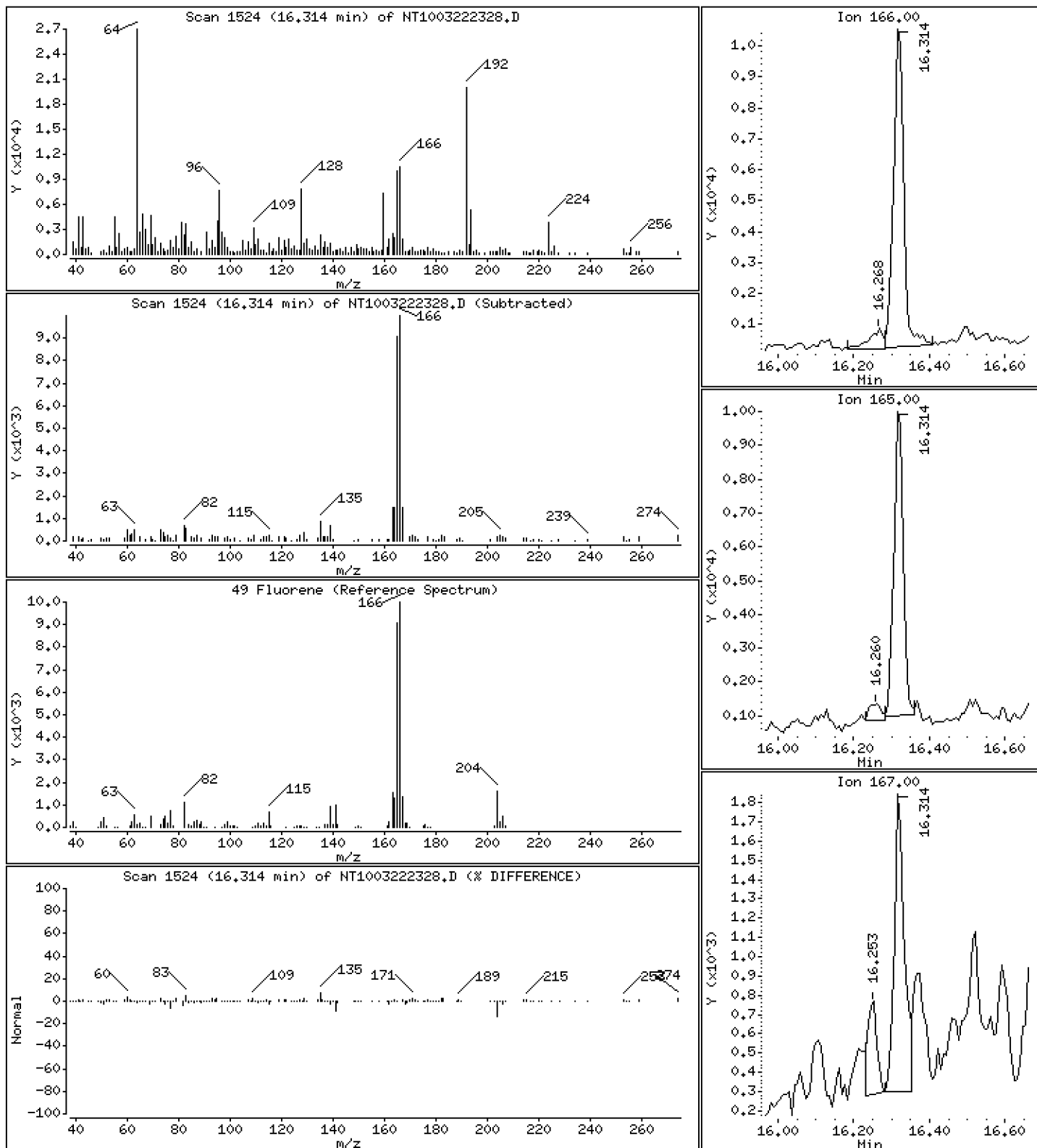
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 0.1644 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

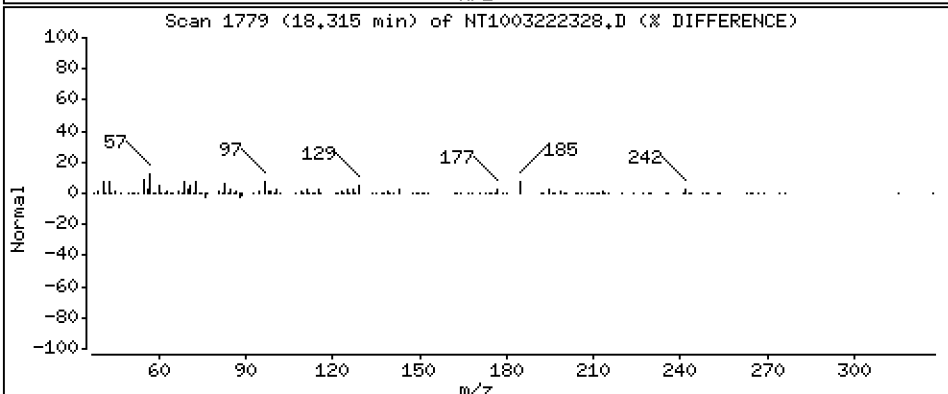
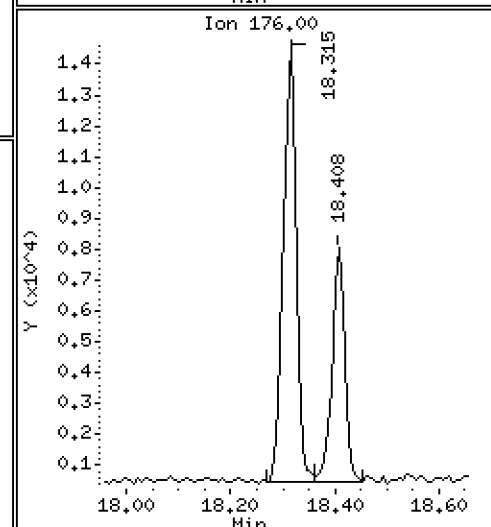
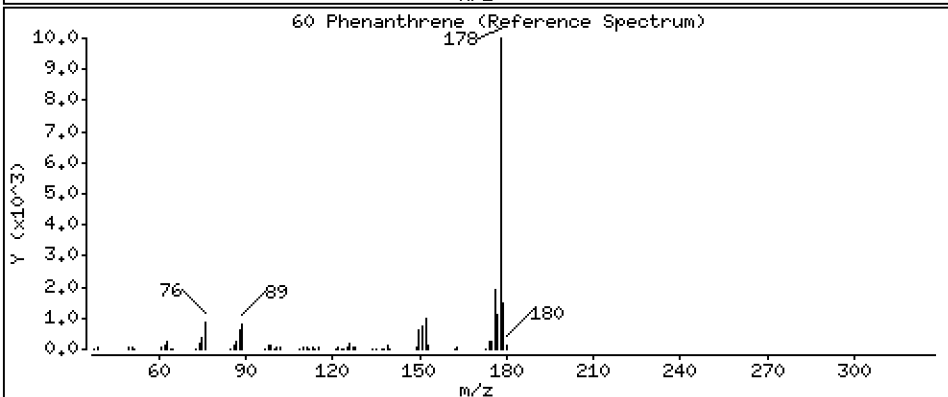
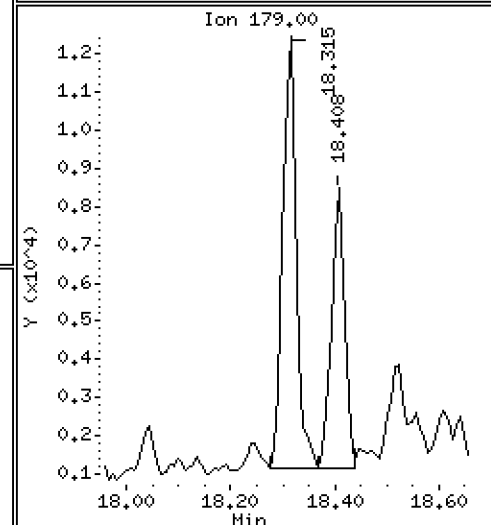
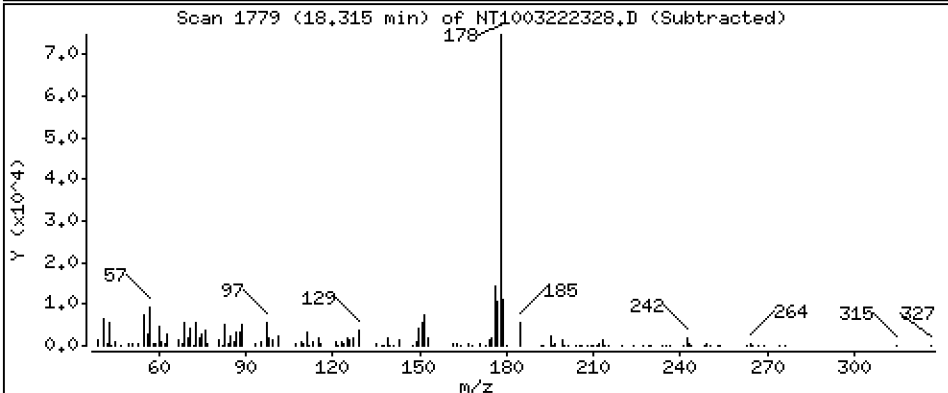
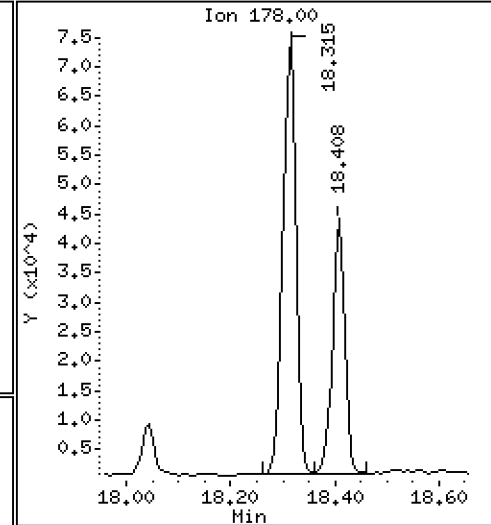
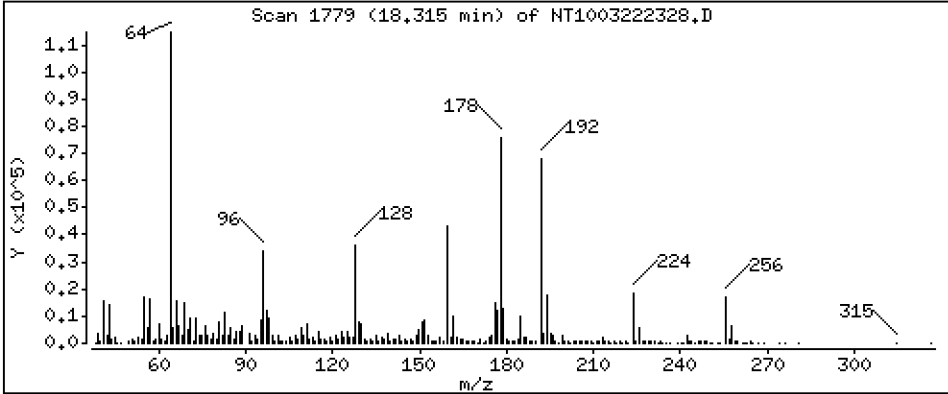
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,7392 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

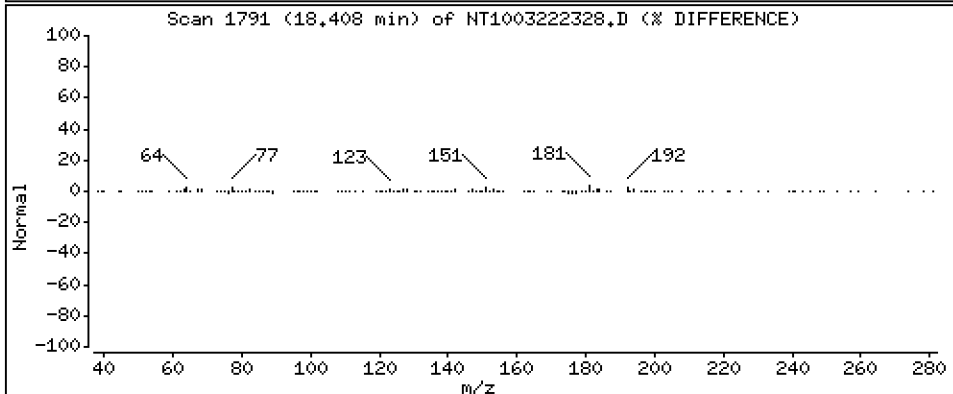
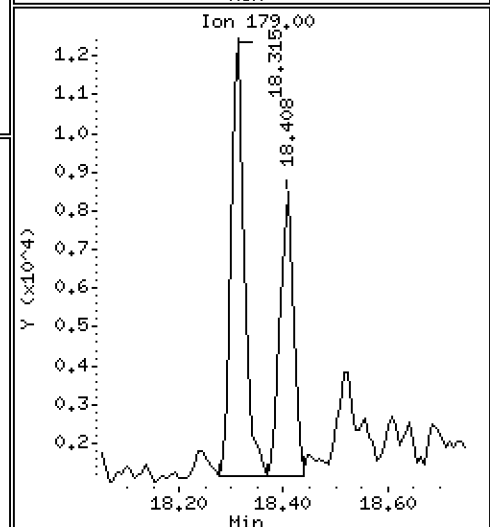
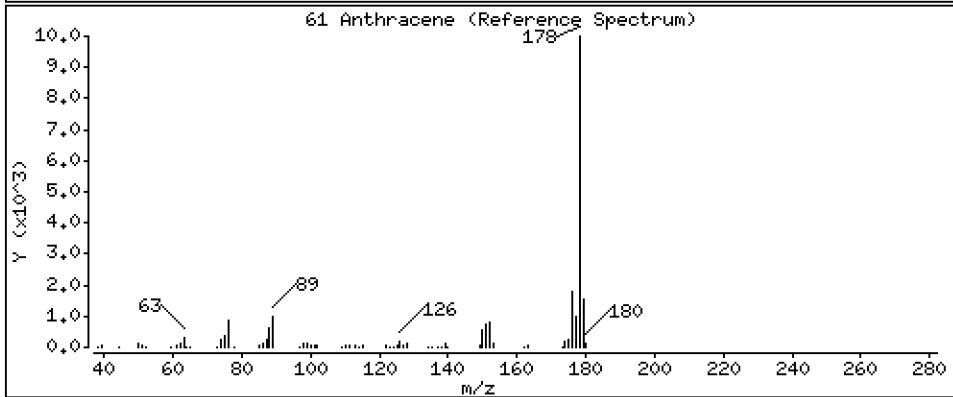
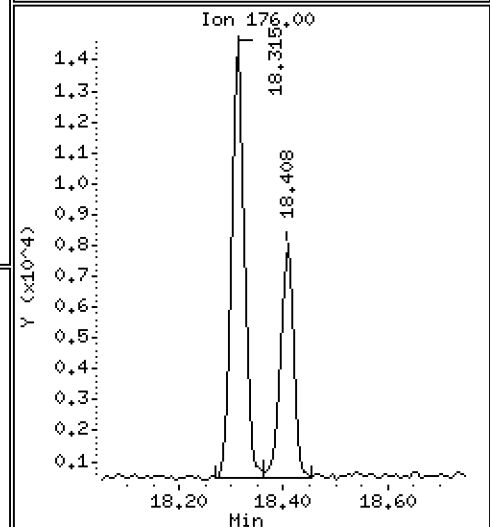
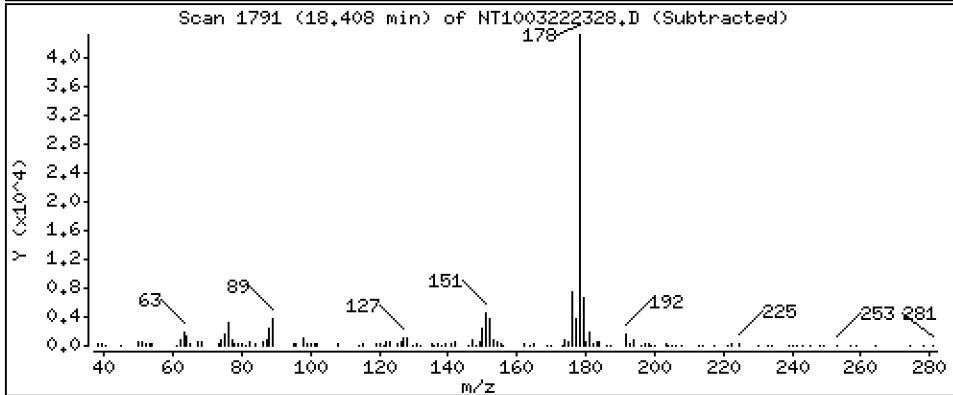
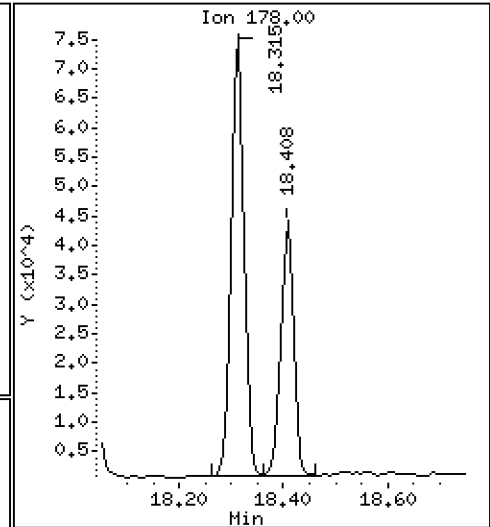
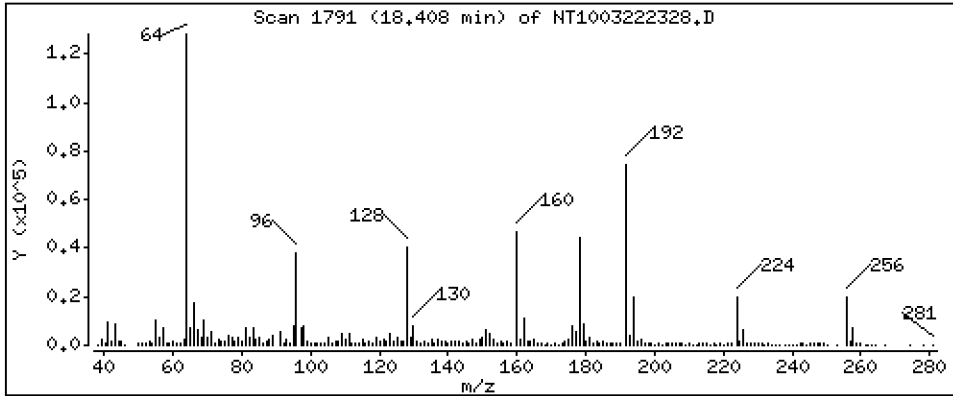
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 0.4415 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

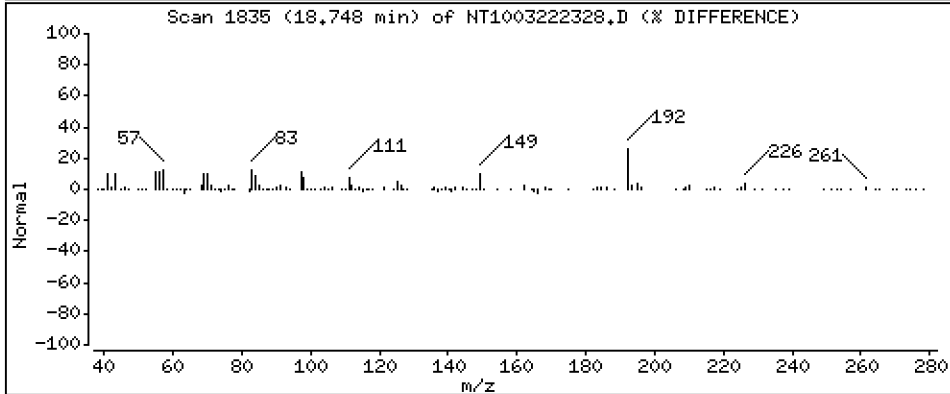
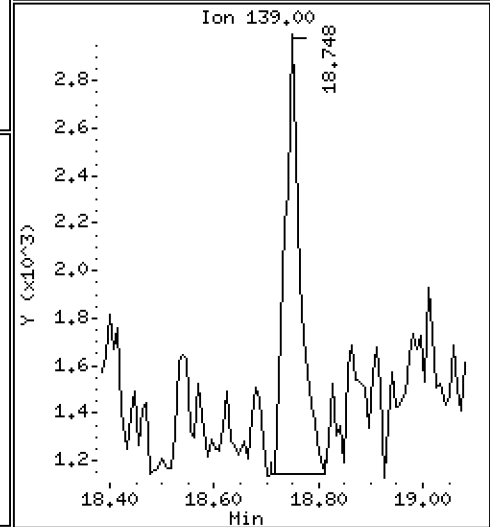
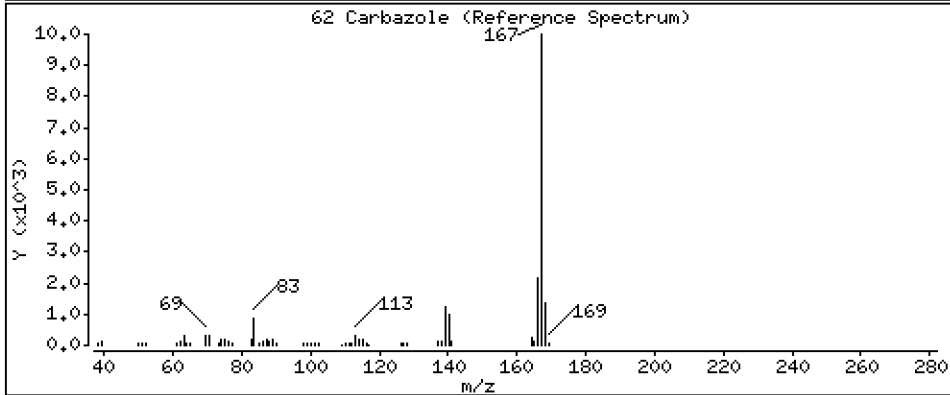
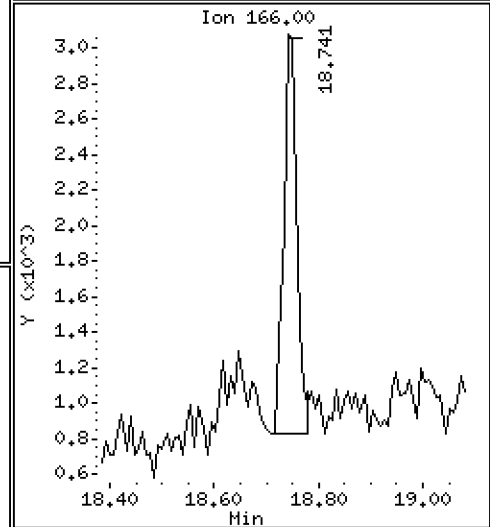
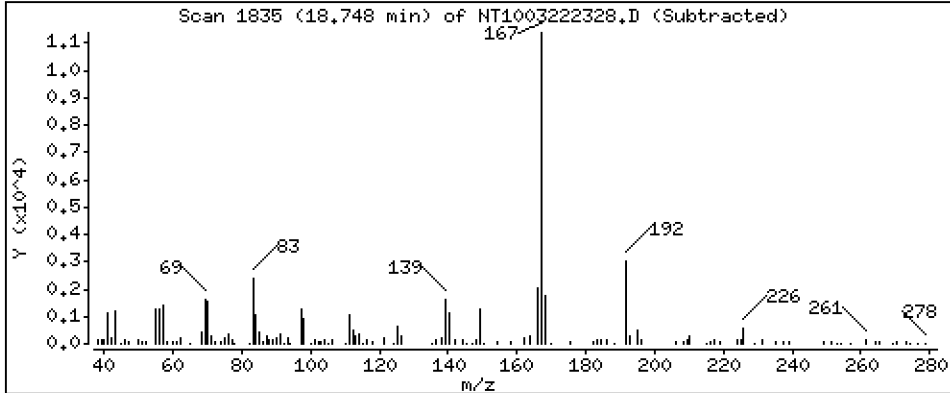
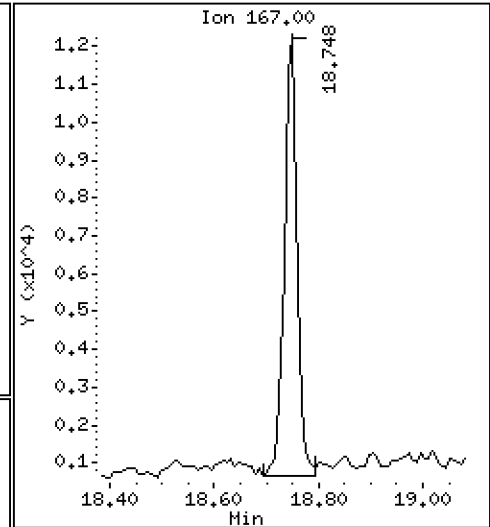
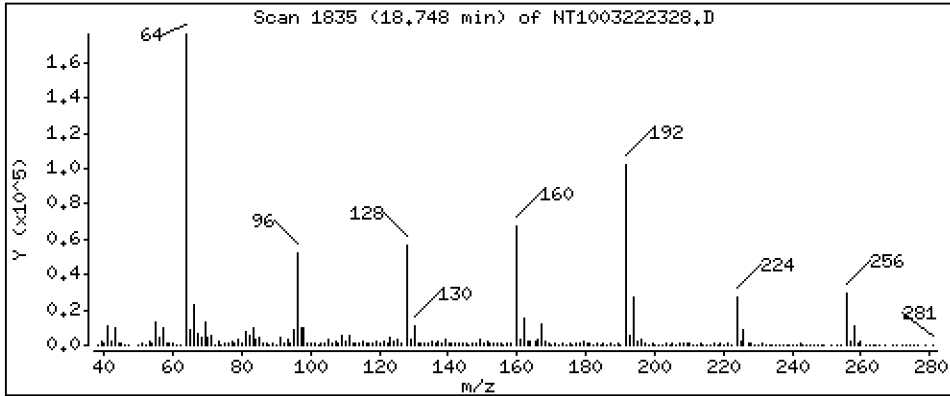
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

62 Carbazole

Concentration: 0.1359 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

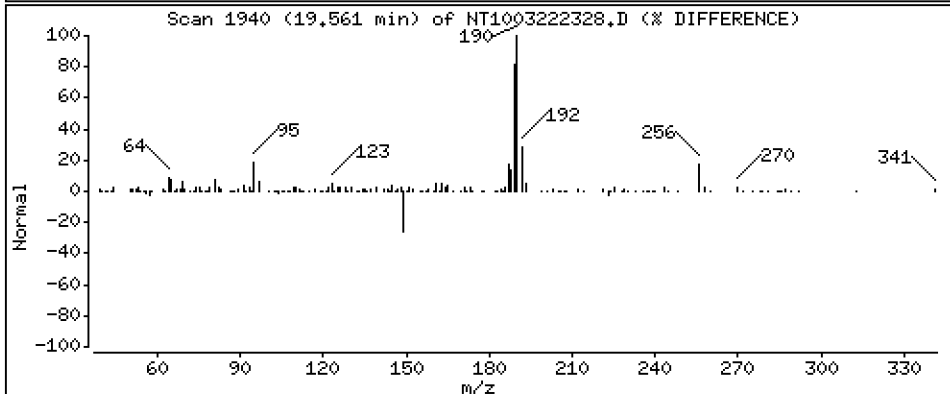
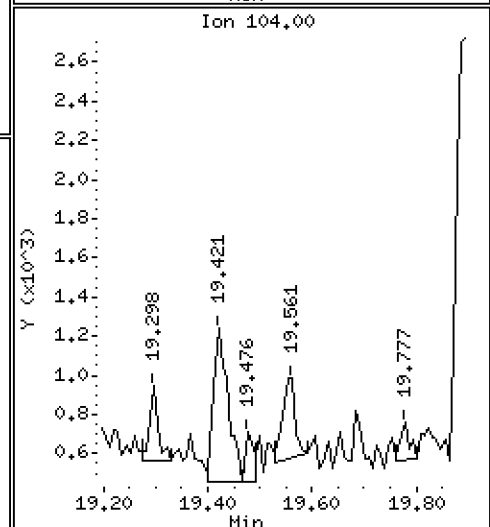
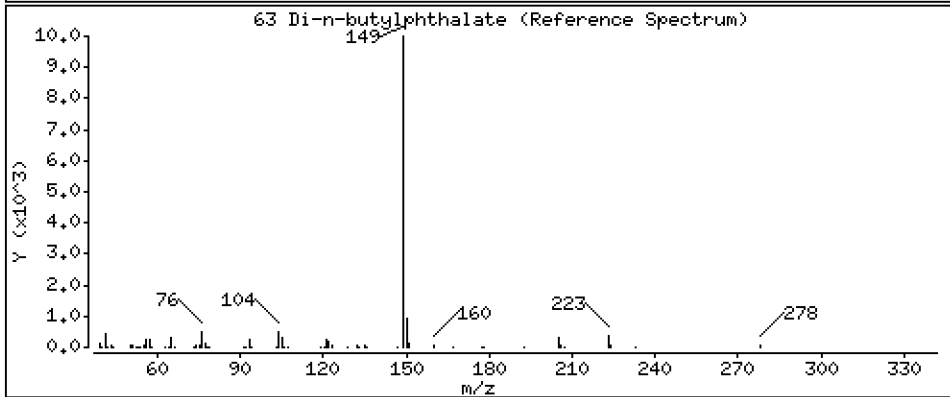
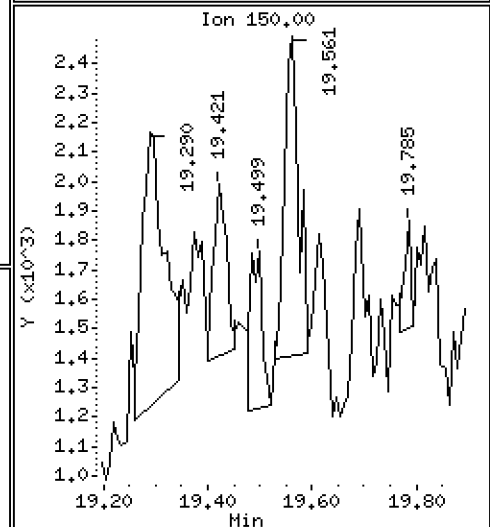
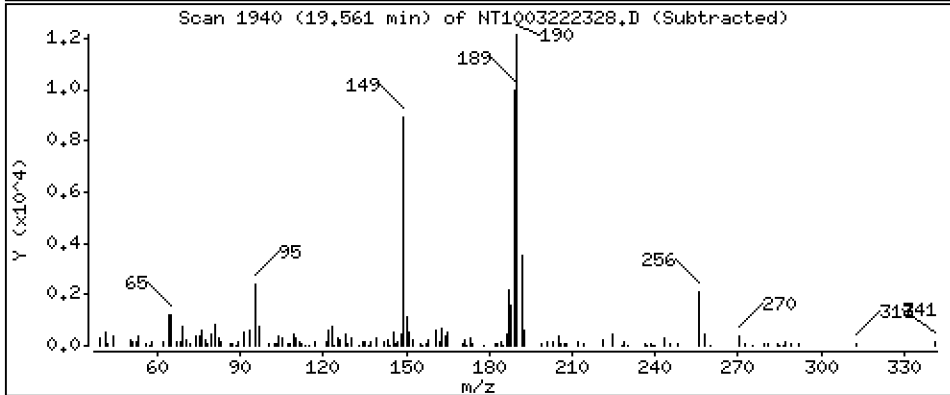
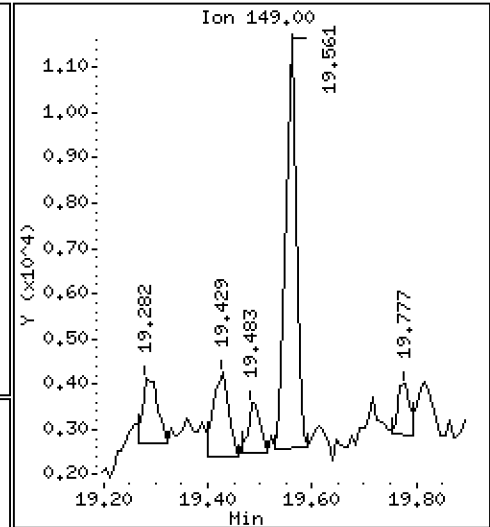
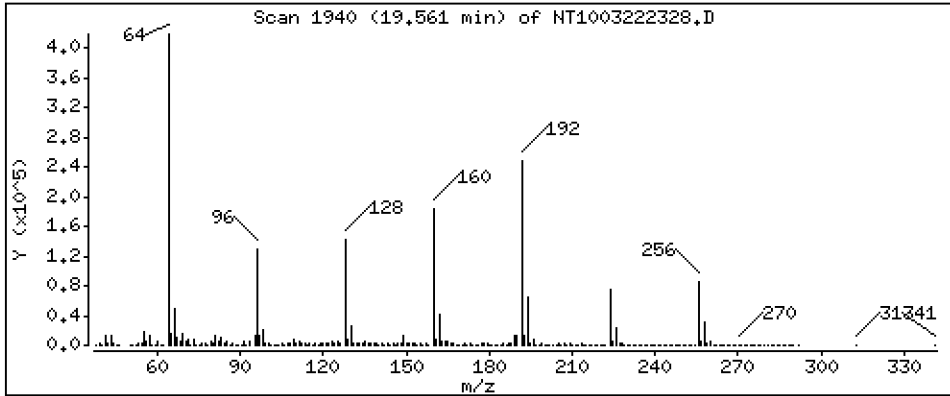
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 0.06379 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

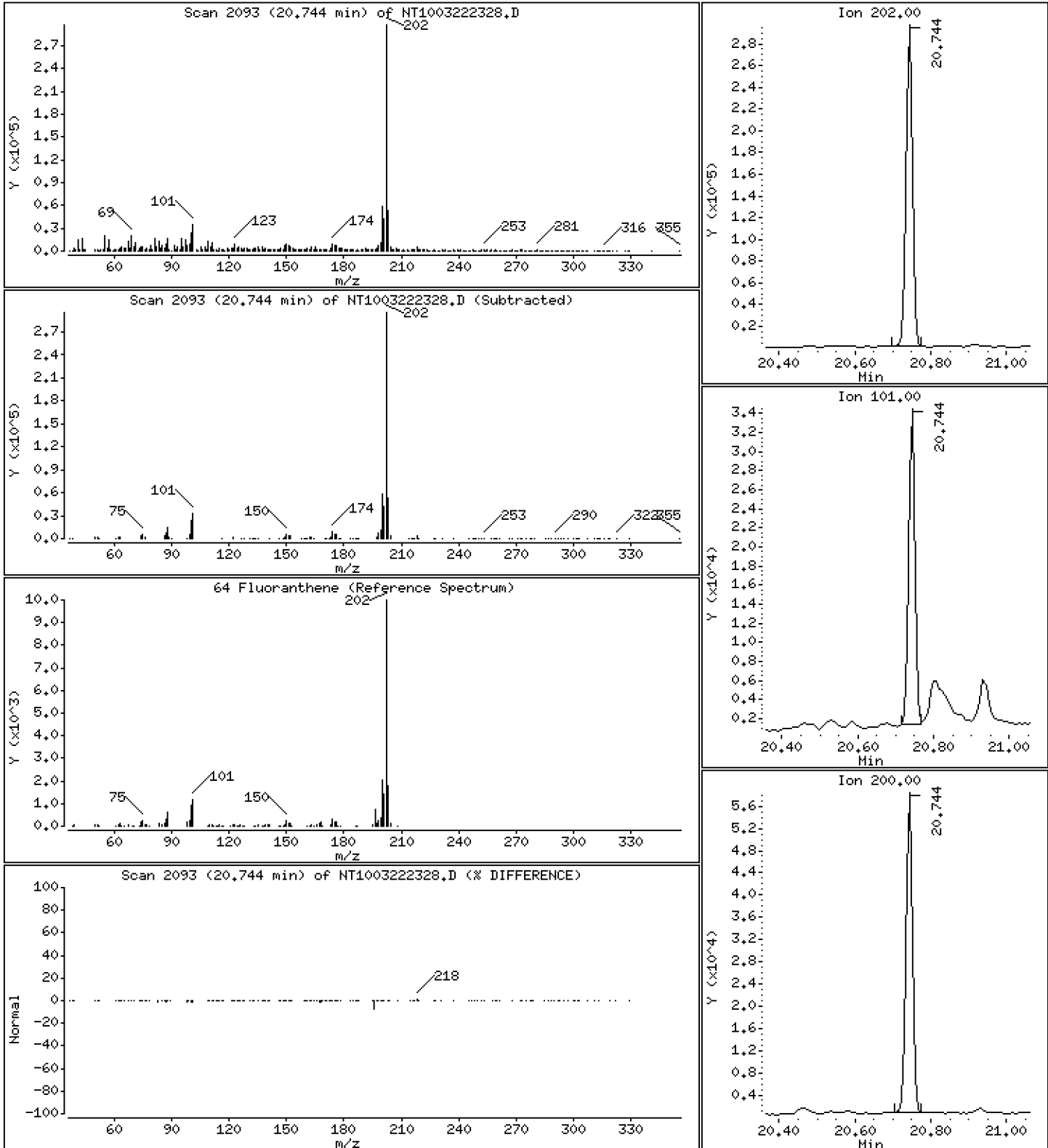
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 1,573 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

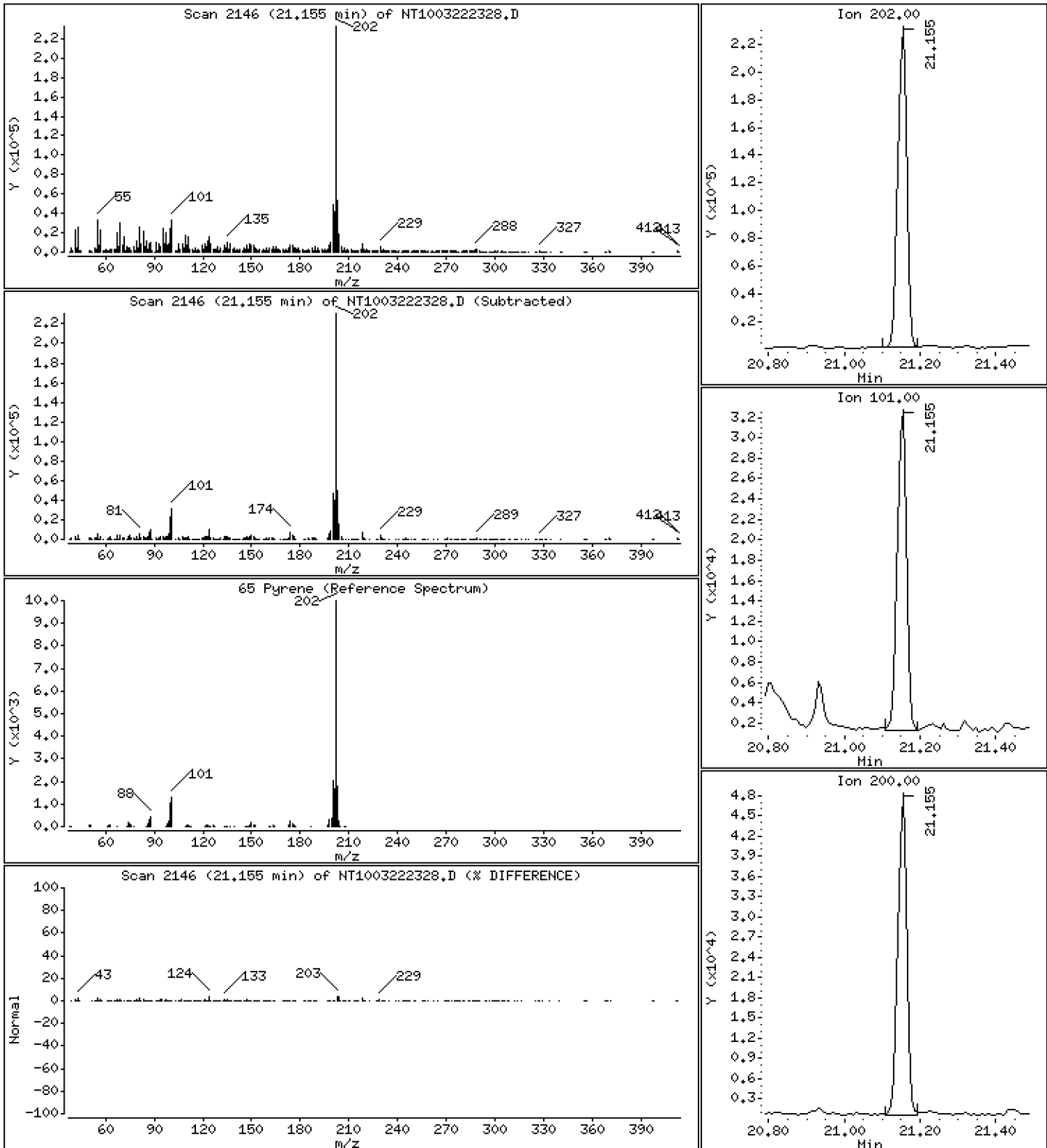
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 1,553 ug/mL





Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

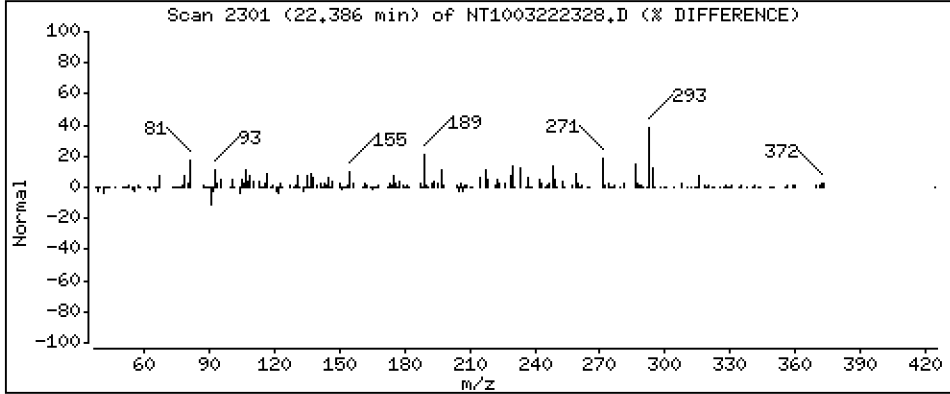
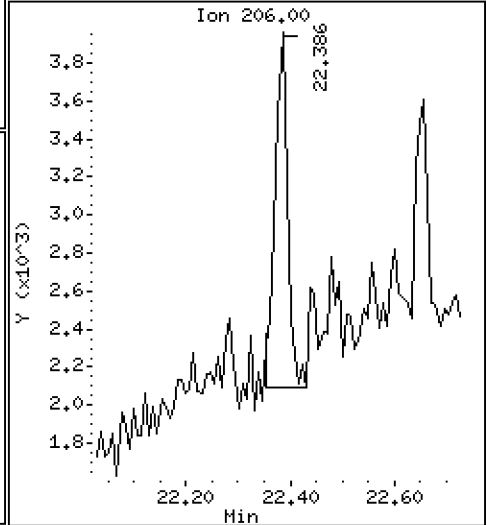
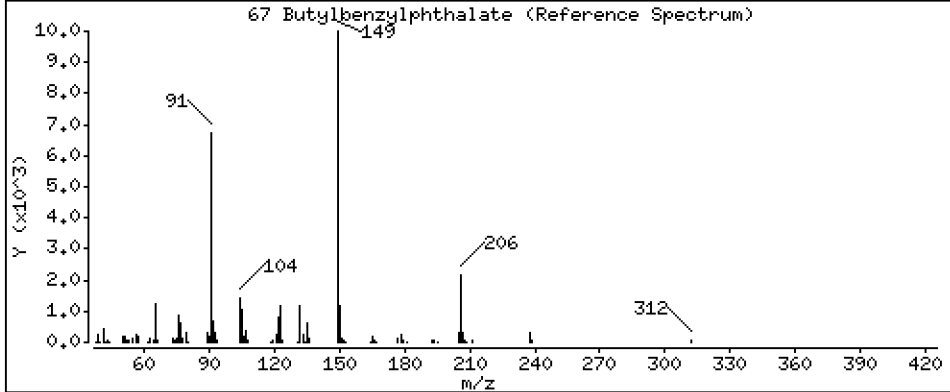
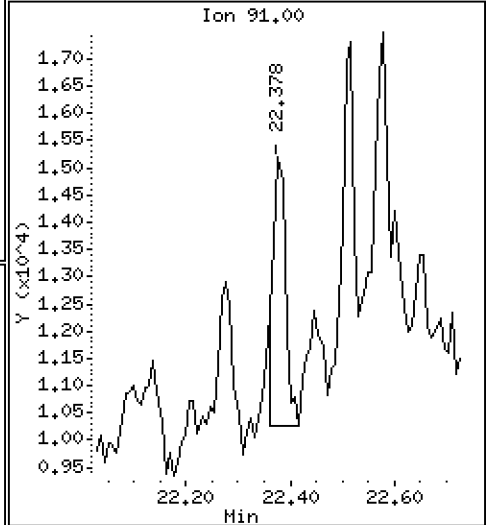
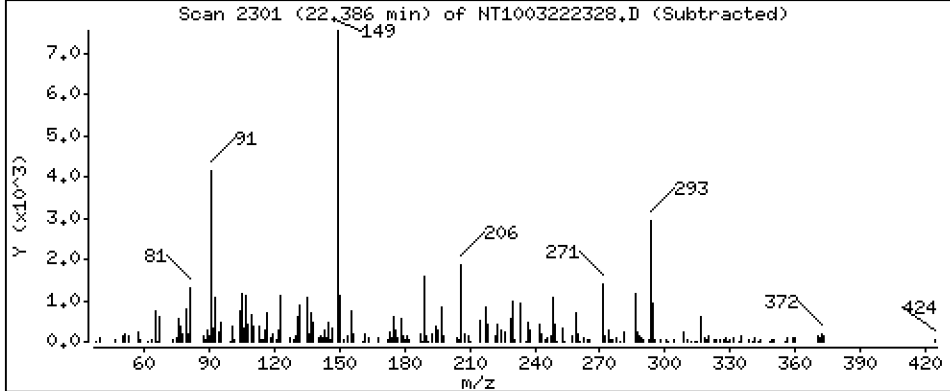
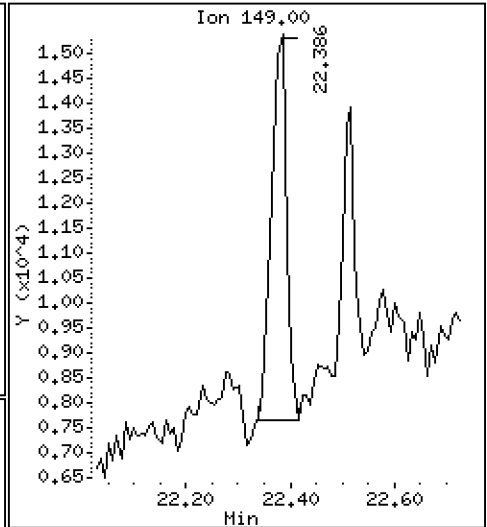
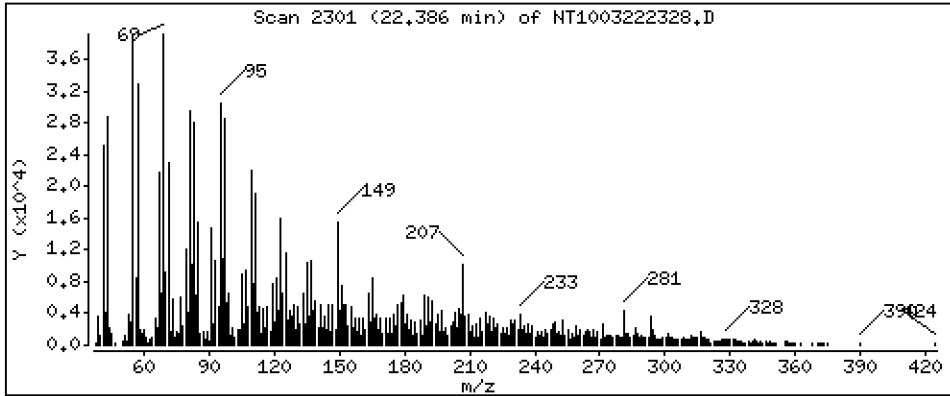
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.1787 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

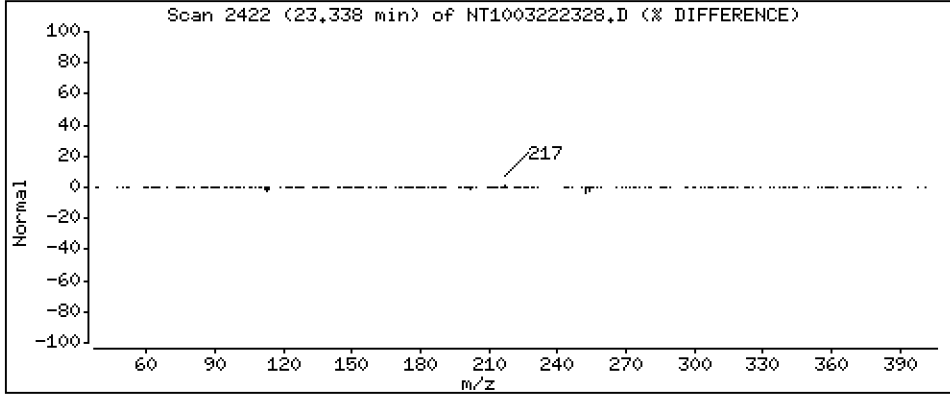
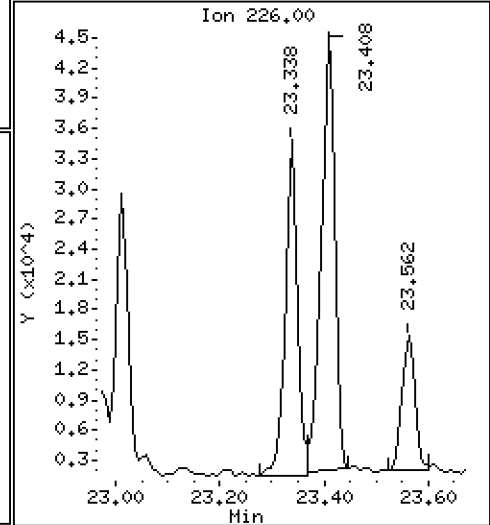
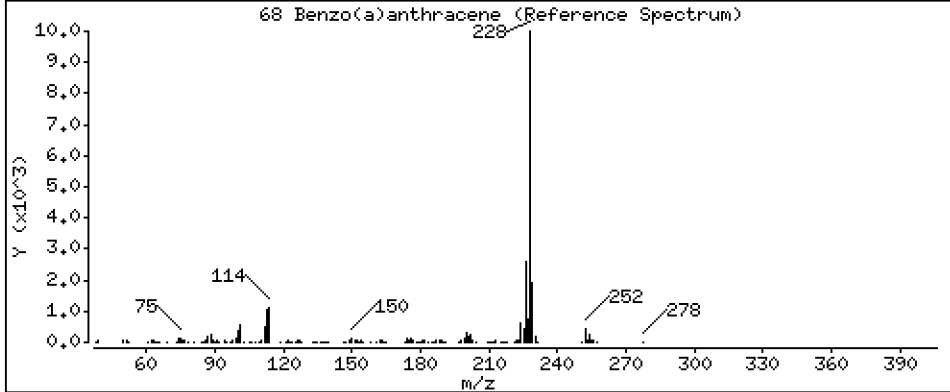
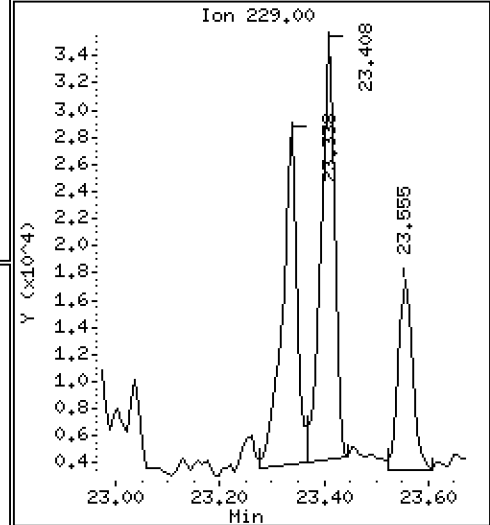
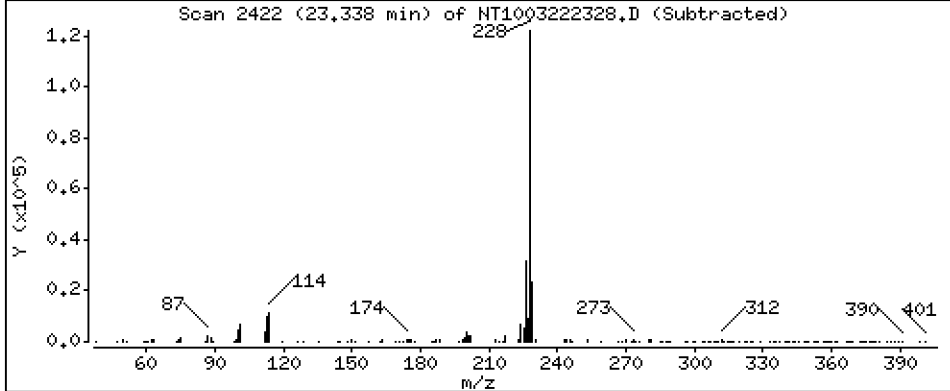
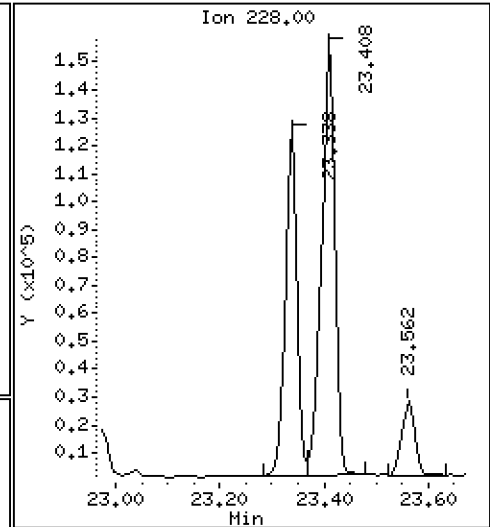
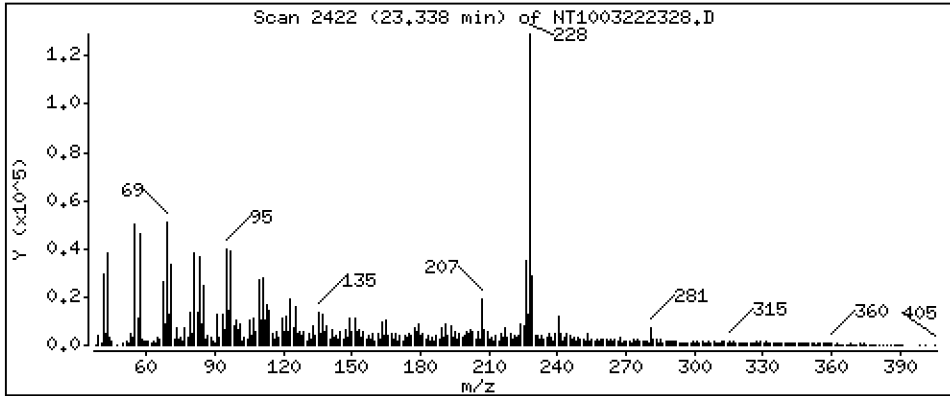
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,9686 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

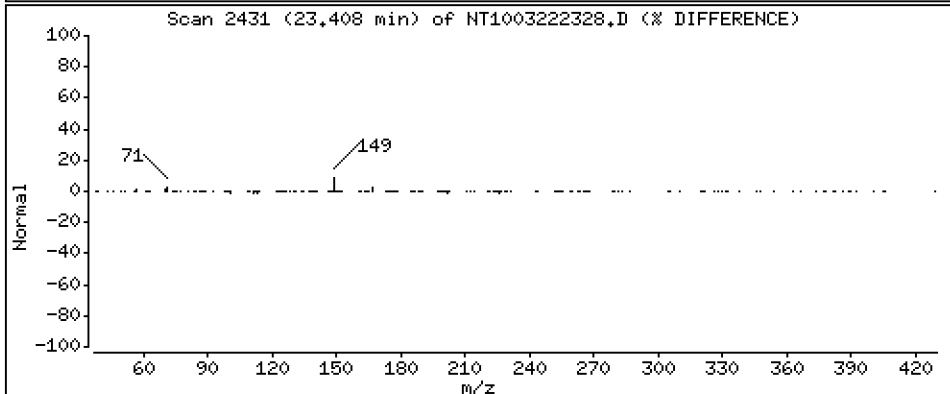
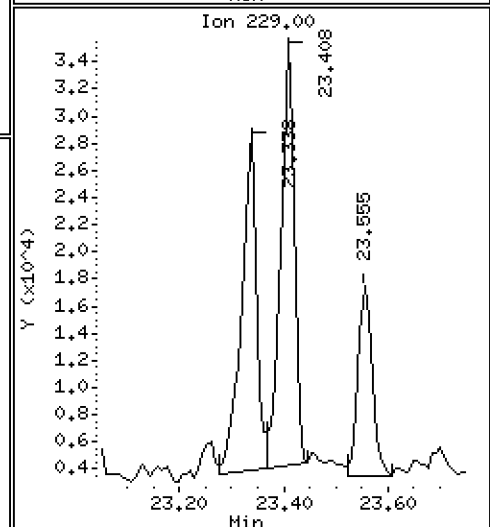
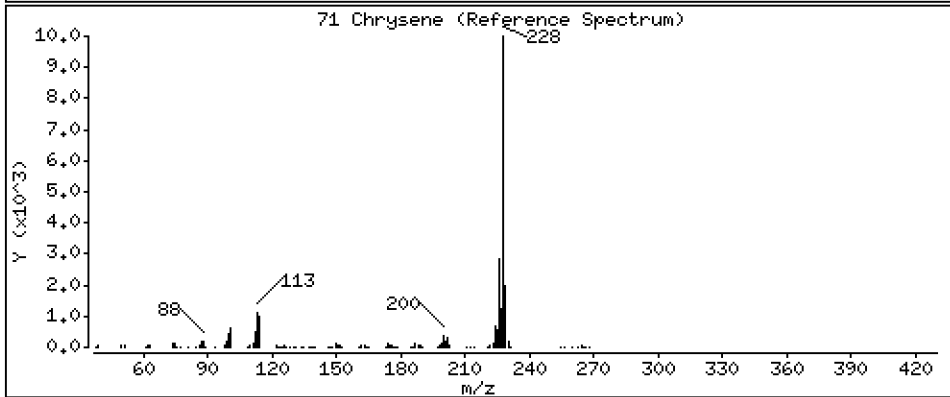
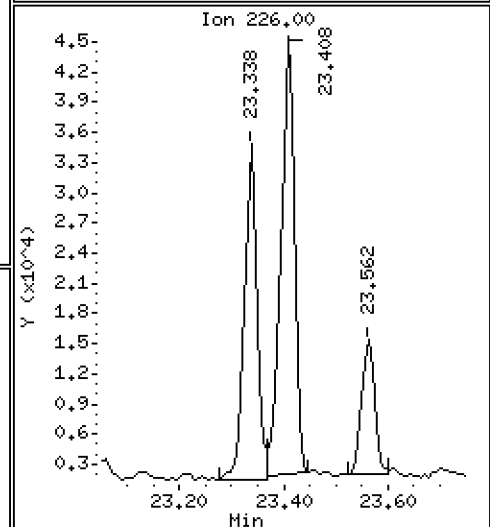
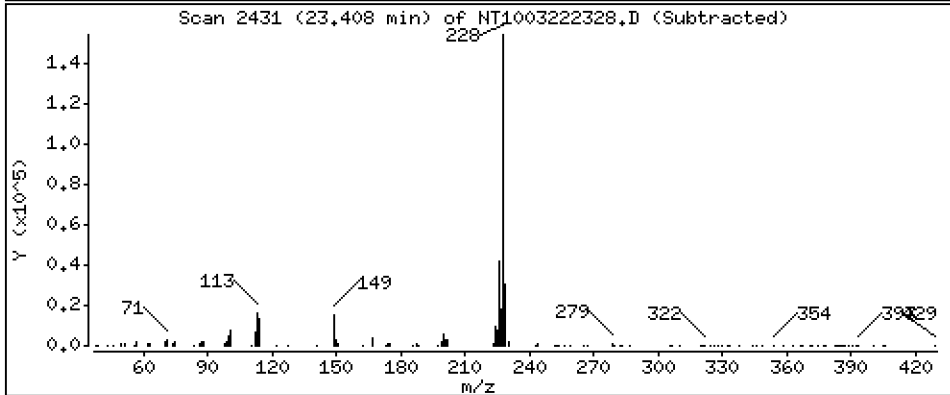
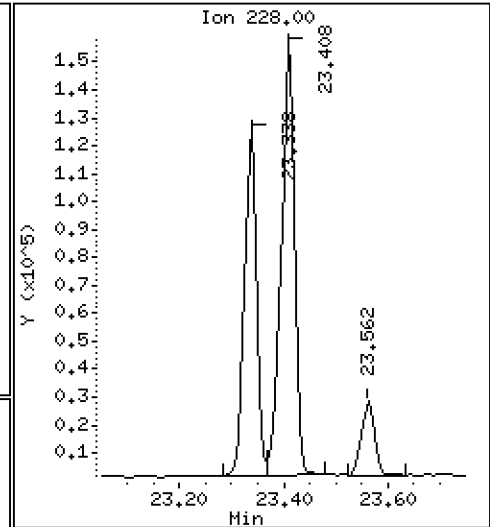
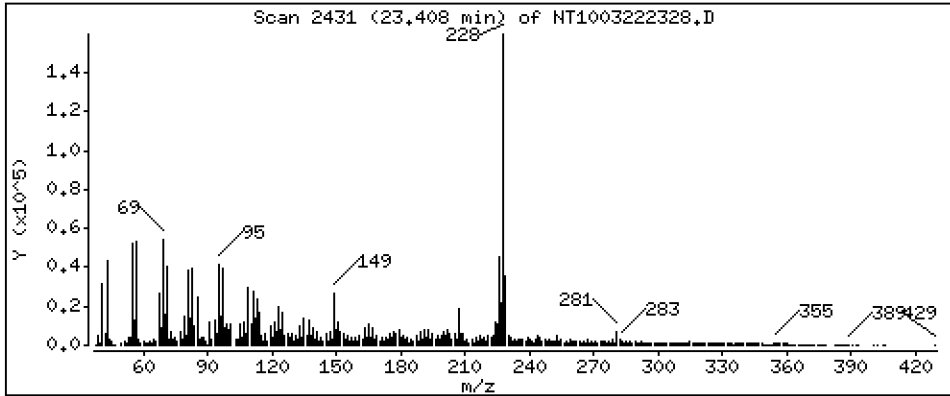
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 1,353 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

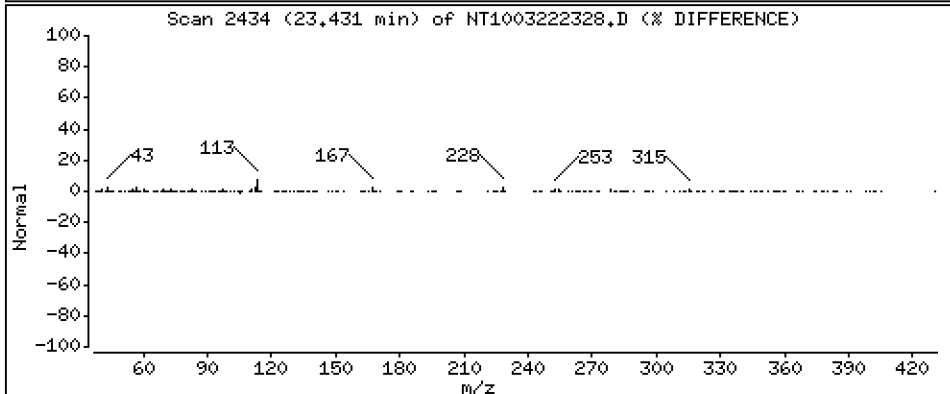
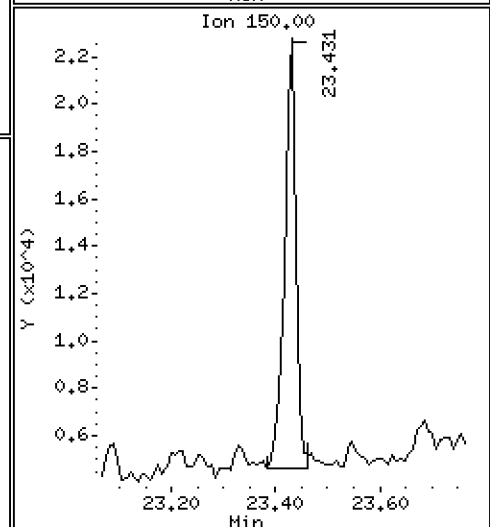
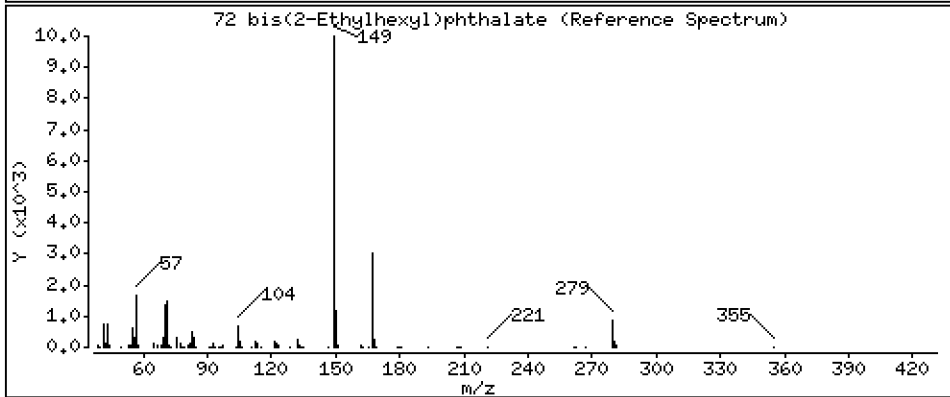
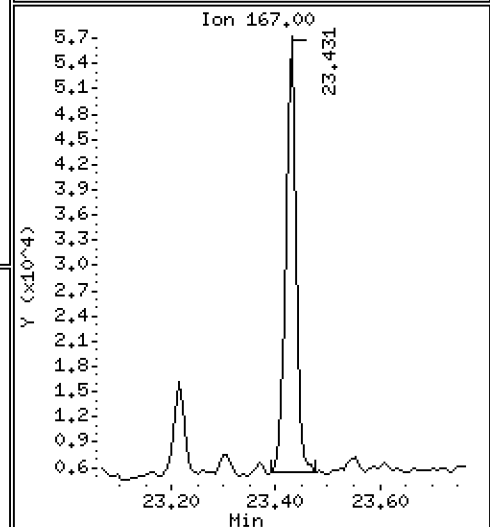
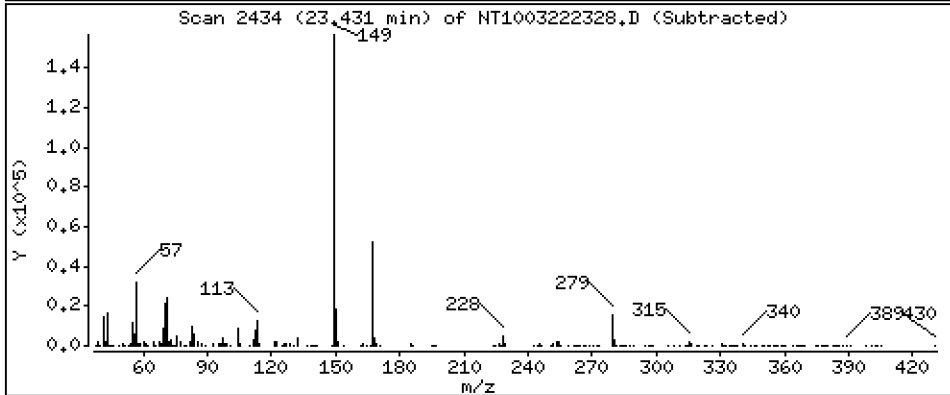
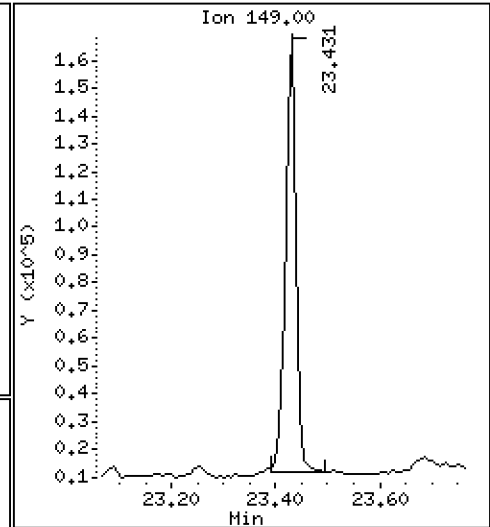
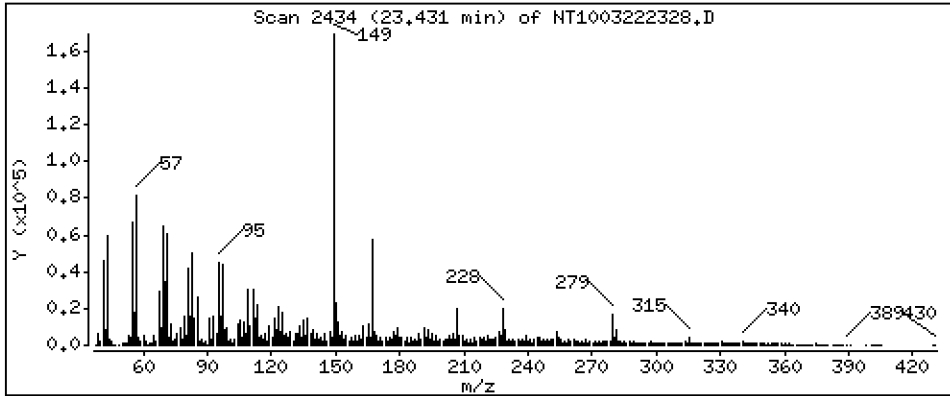
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 1,611 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

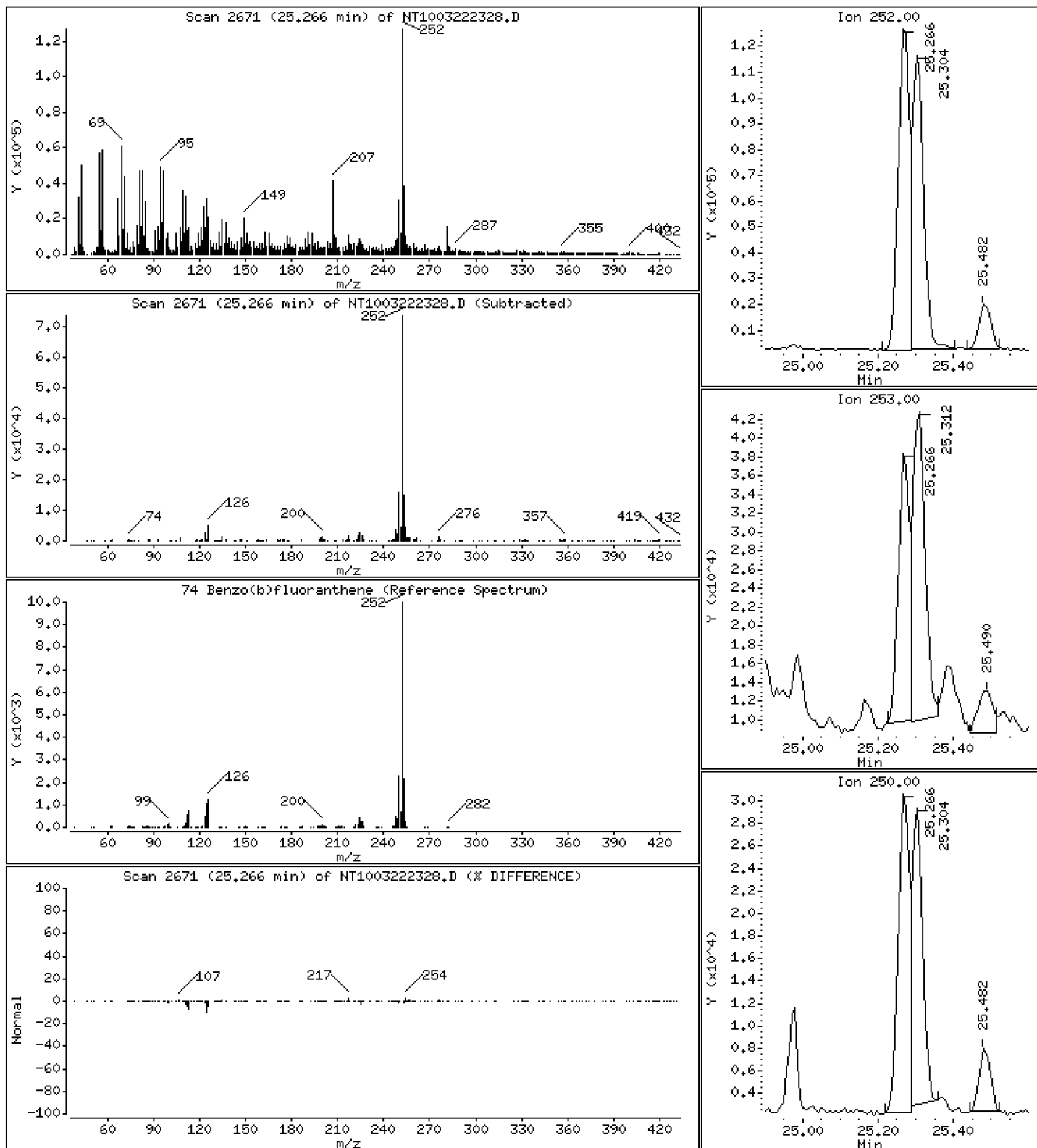
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 1,391 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

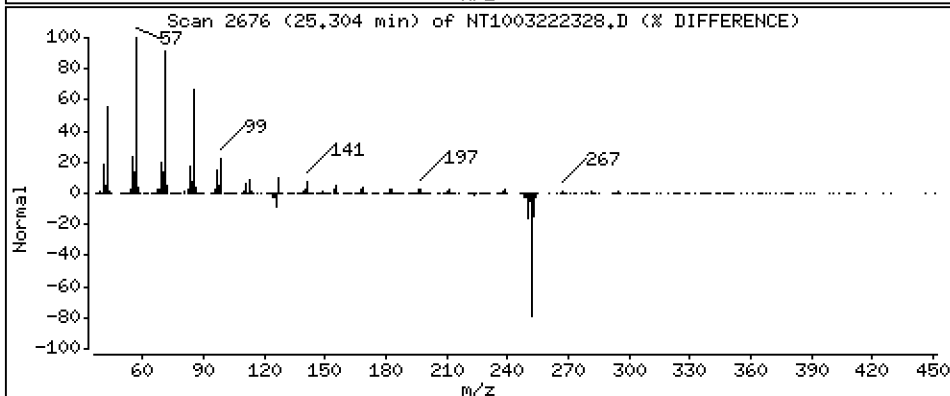
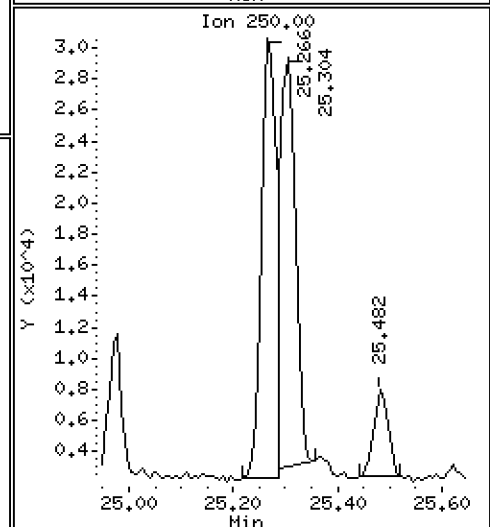
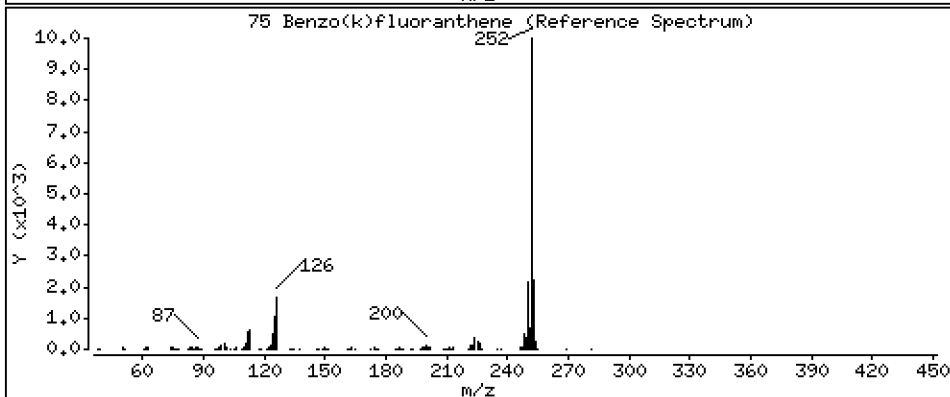
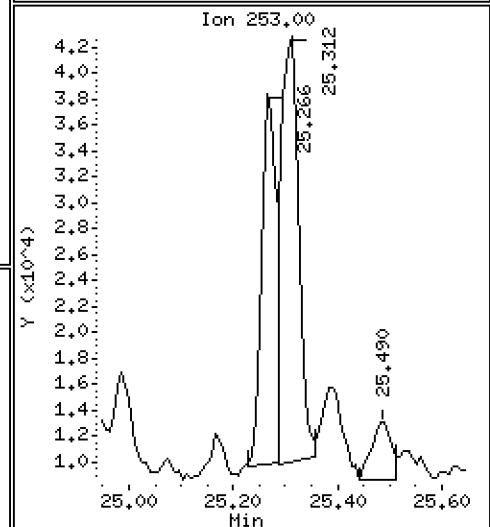
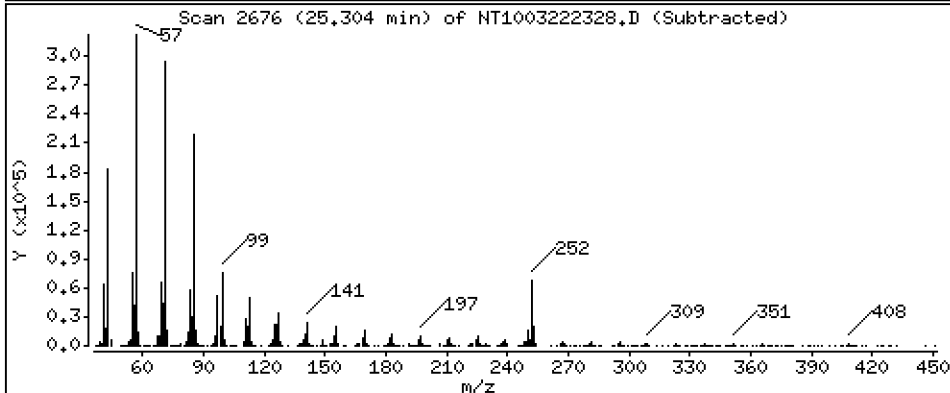
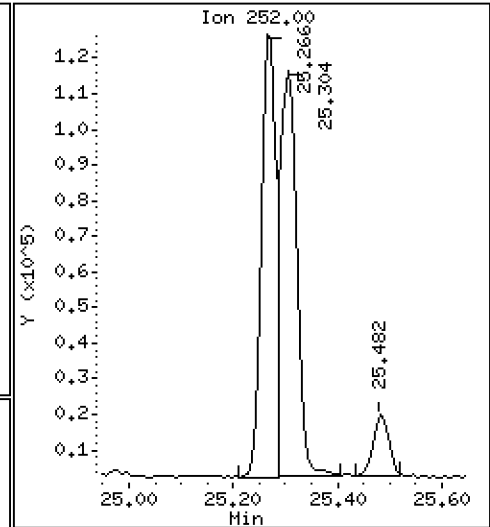
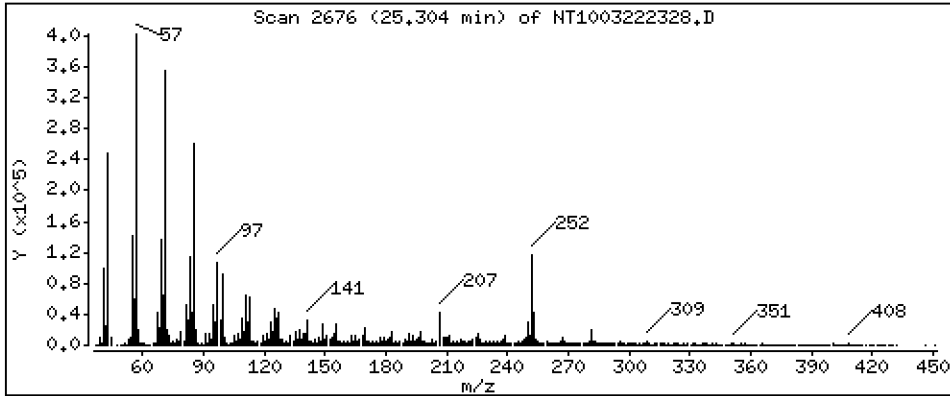
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 1,265 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

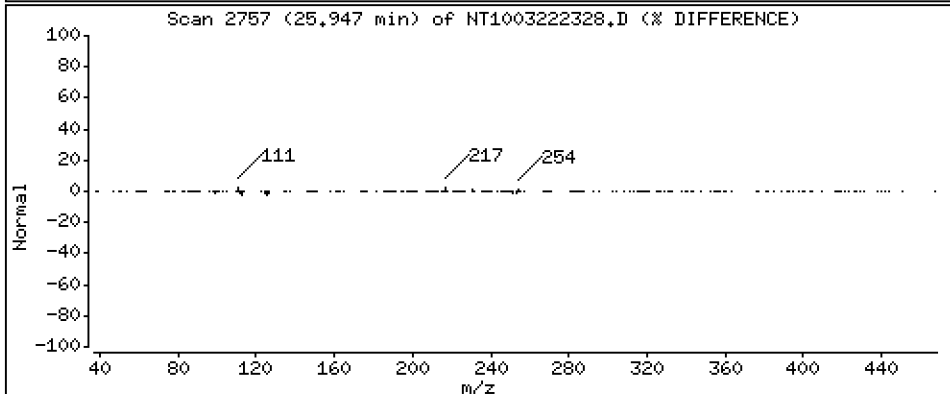
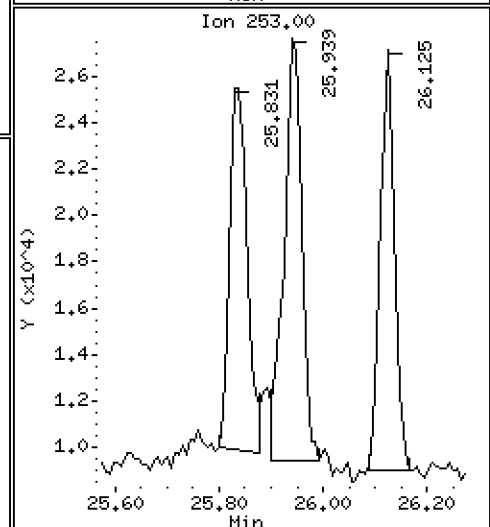
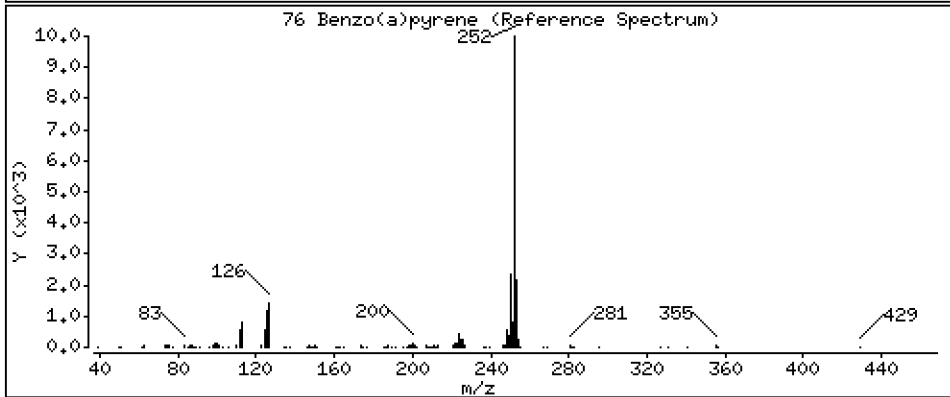
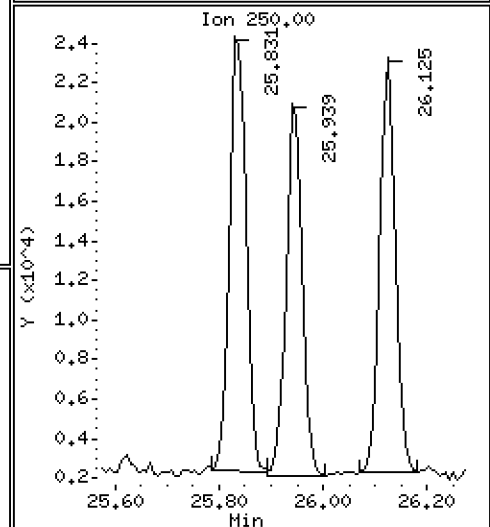
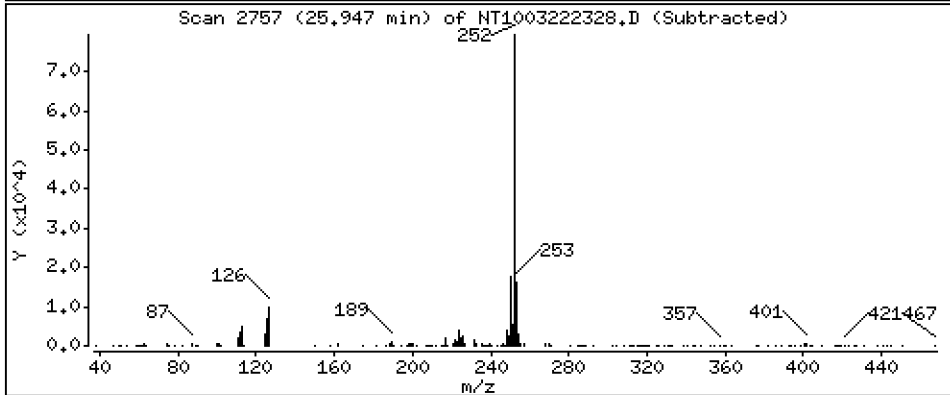
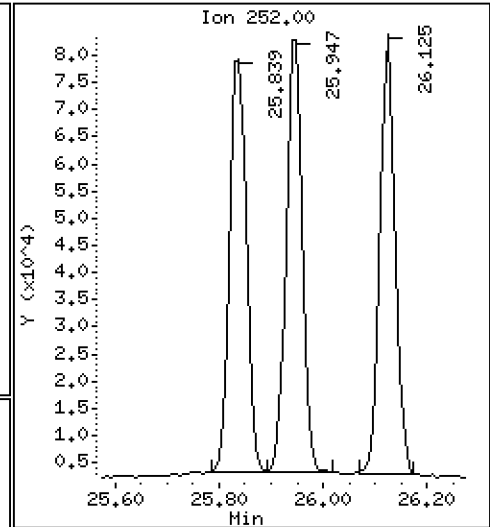
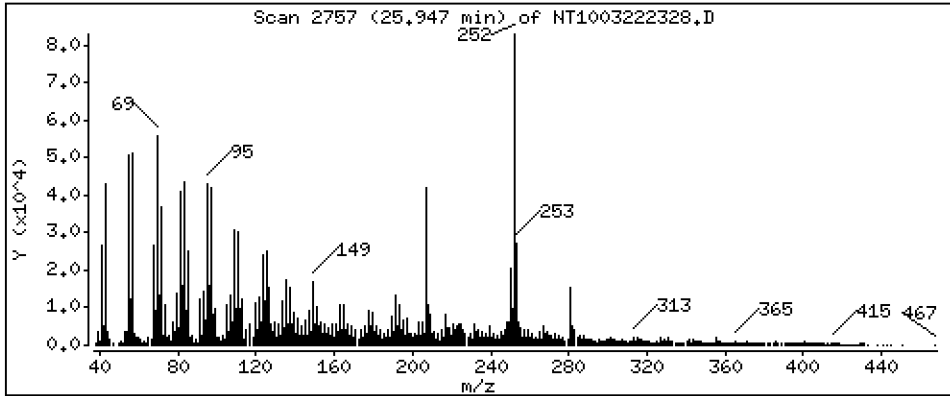
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 1,001 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

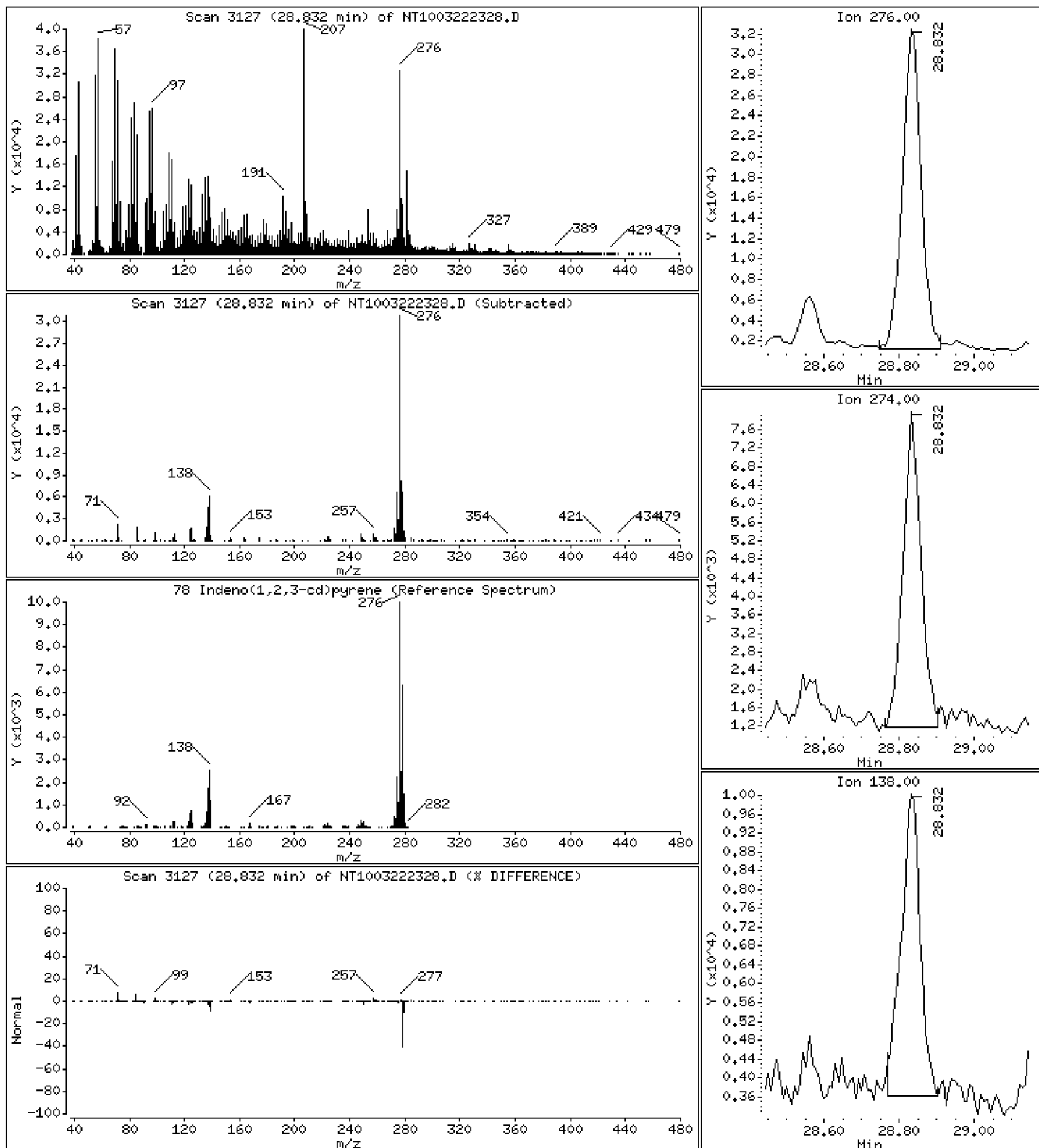
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,5015 ug/mL





Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

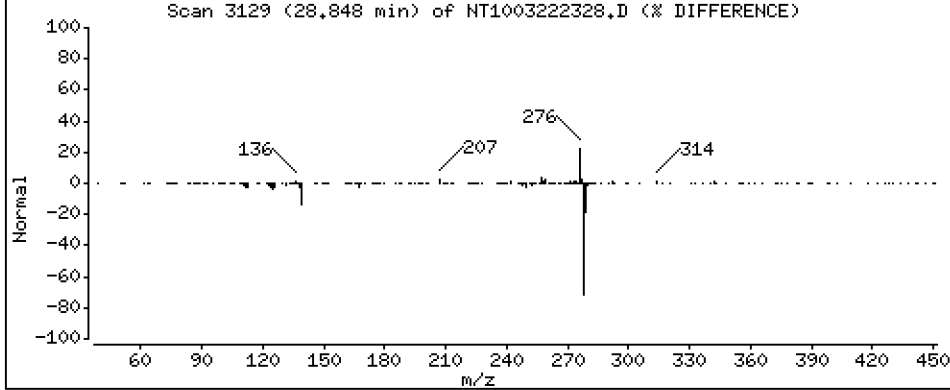
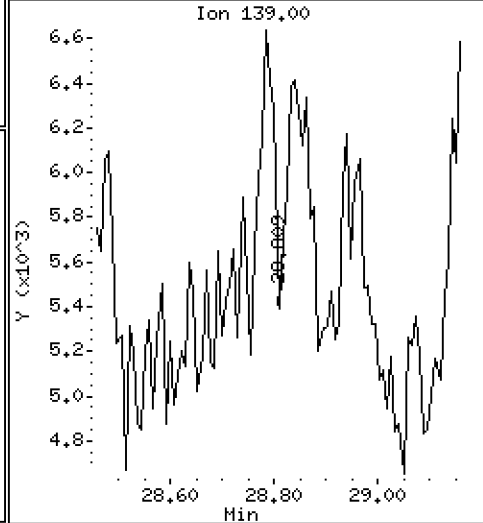
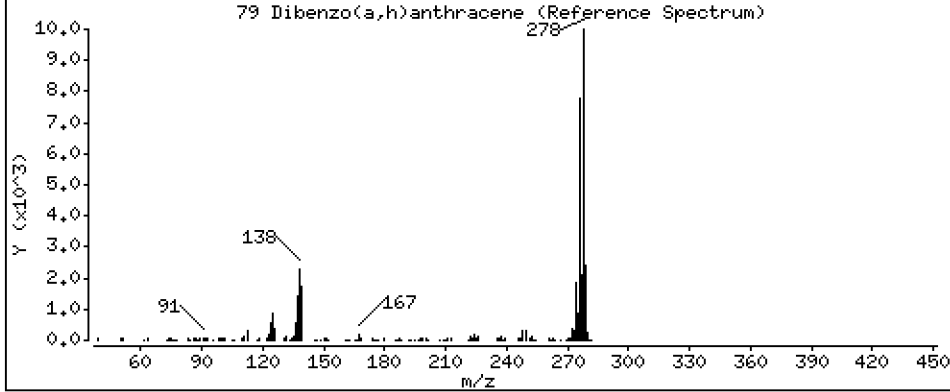
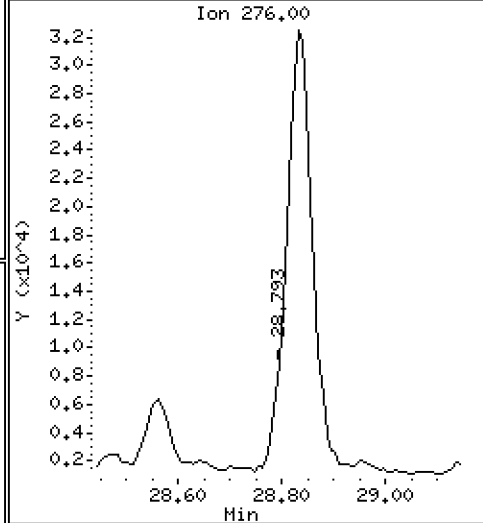
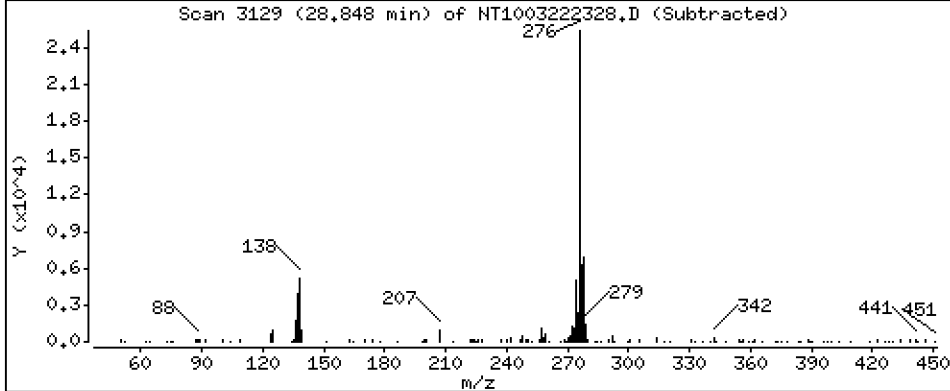
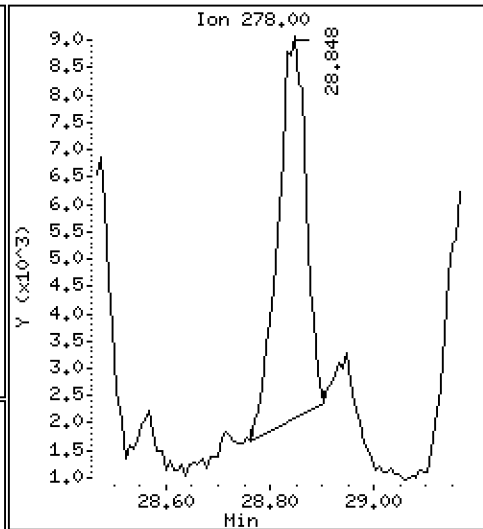
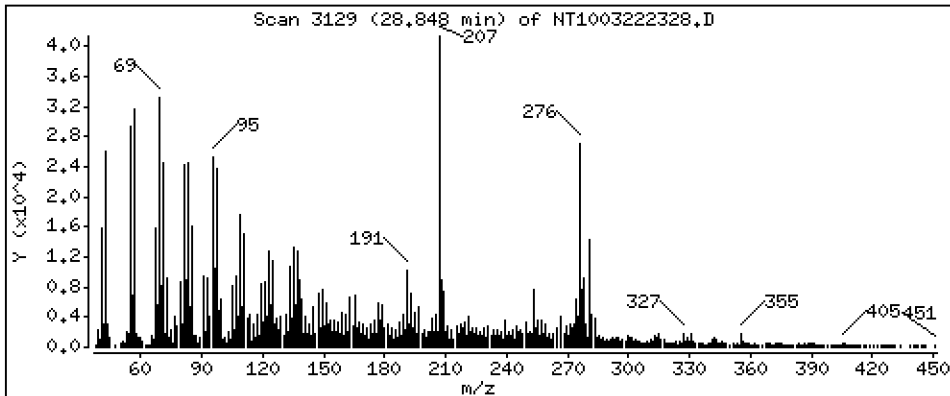
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1451 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

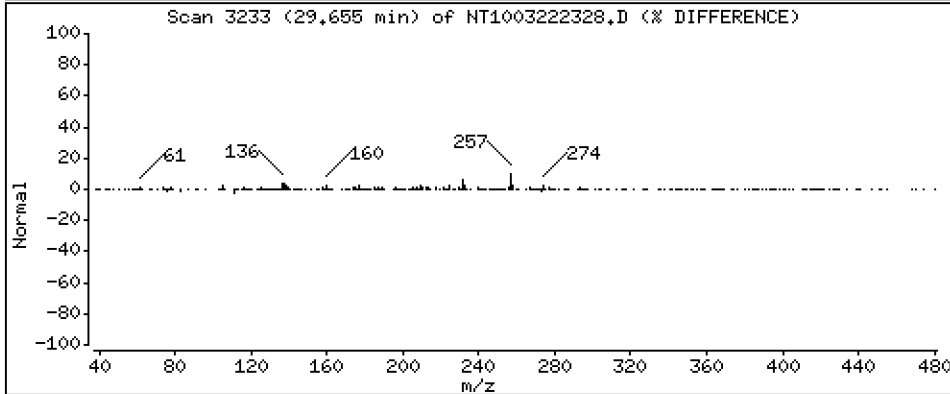
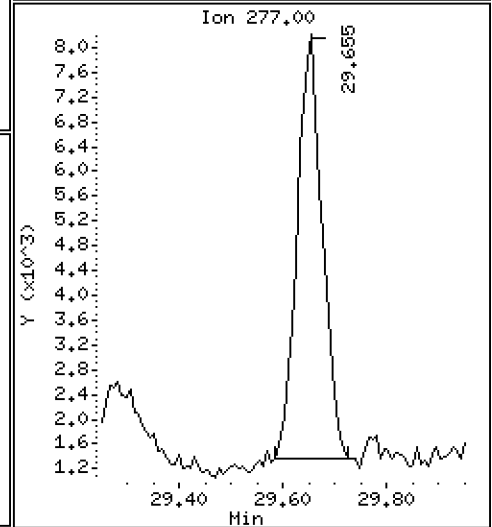
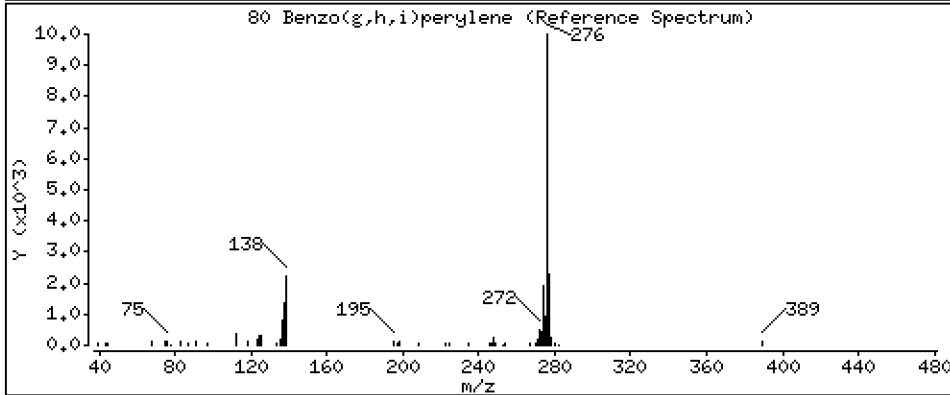
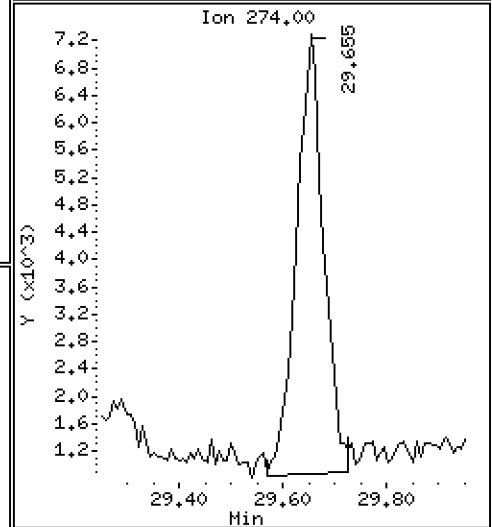
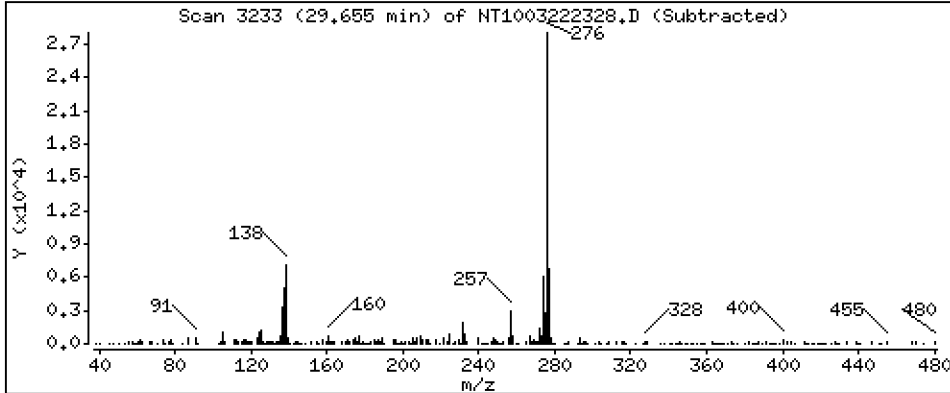
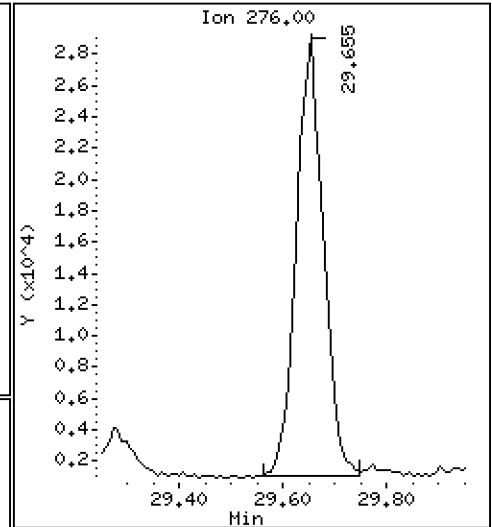
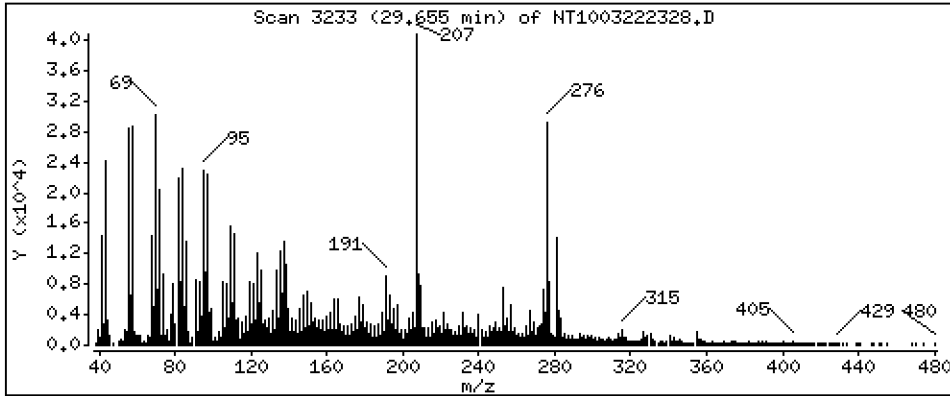
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,5391 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

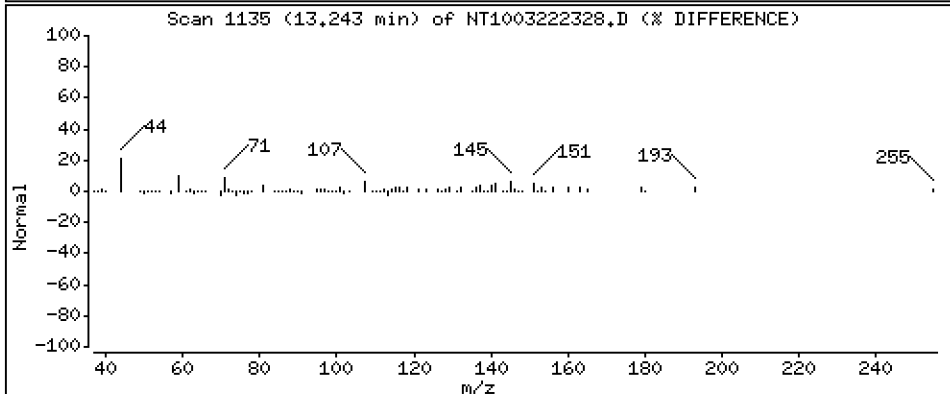
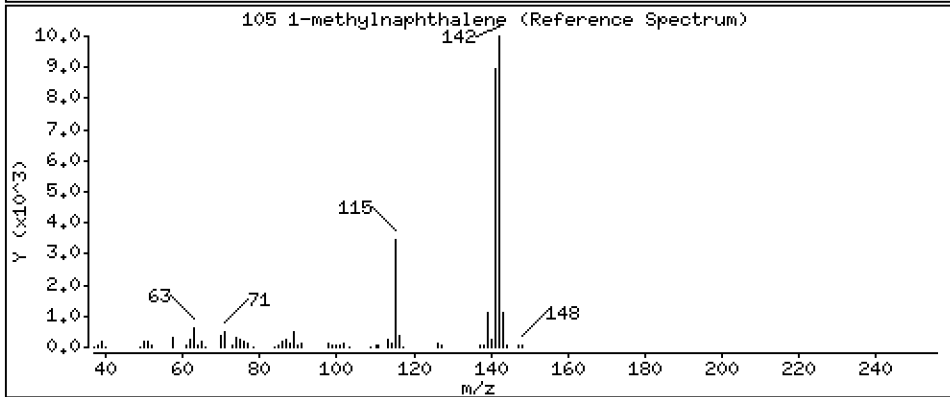
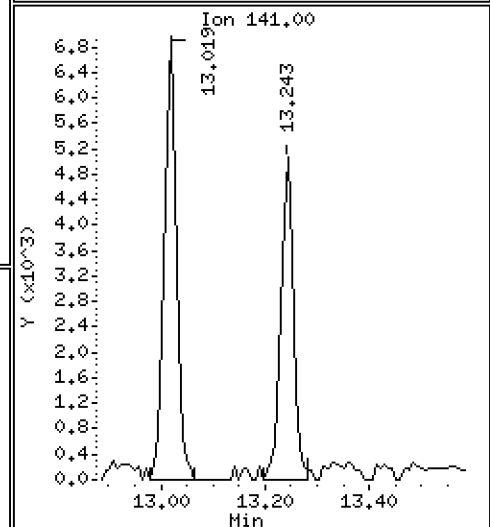
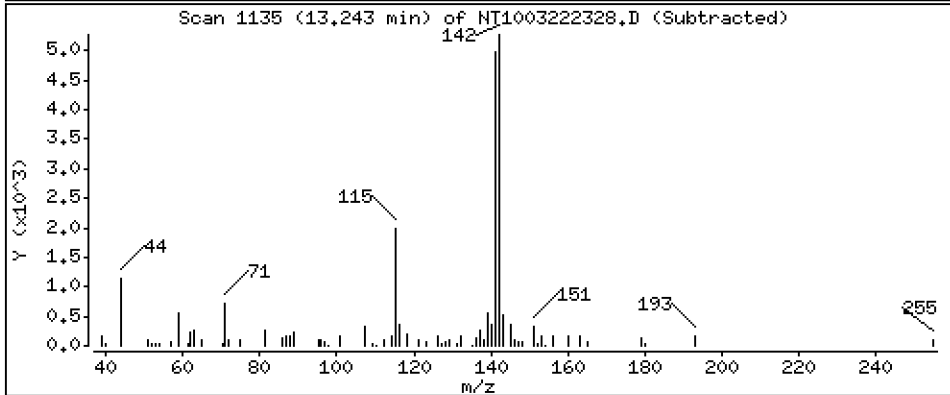
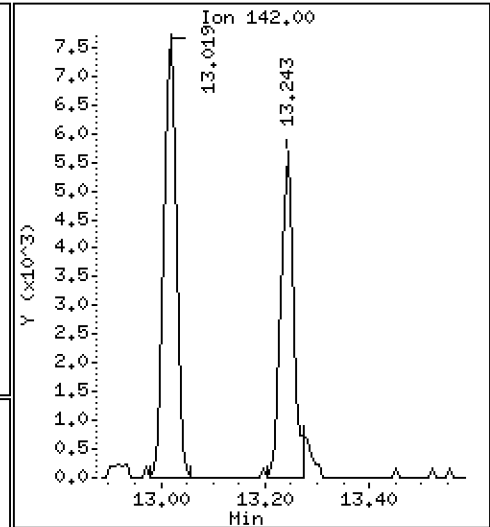
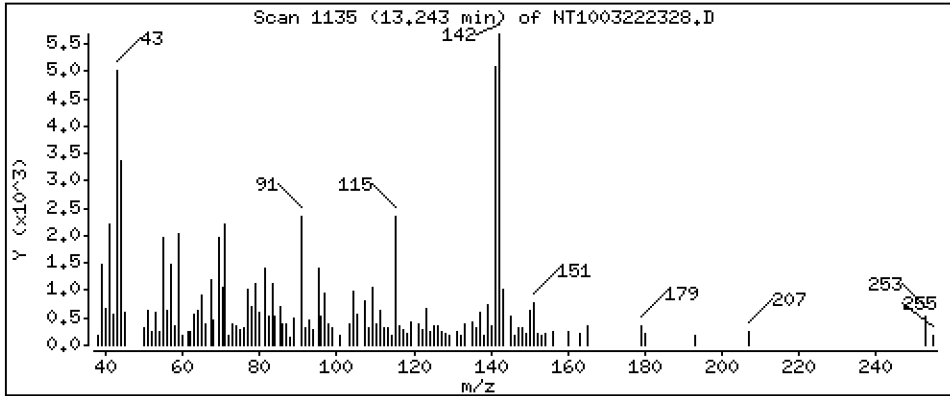
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 0.09357 ug/mL



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12RE1

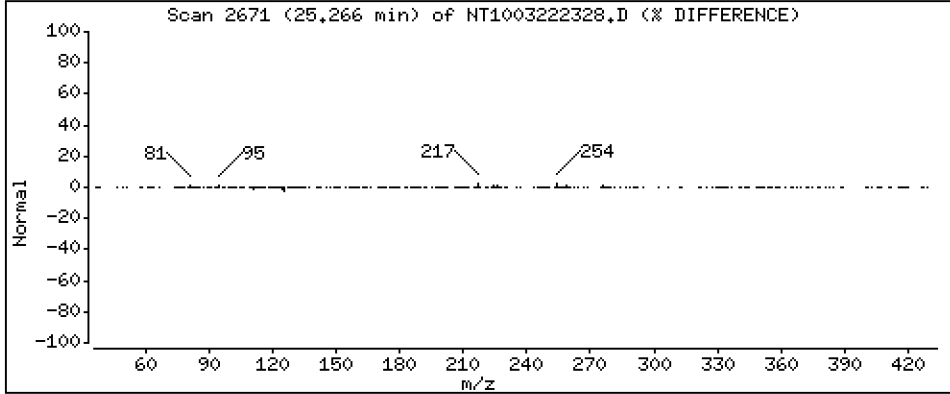
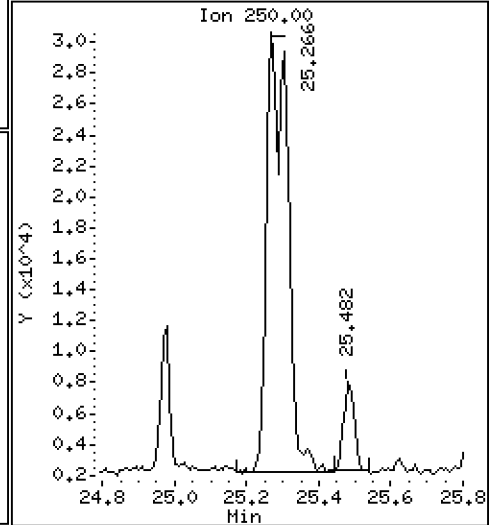
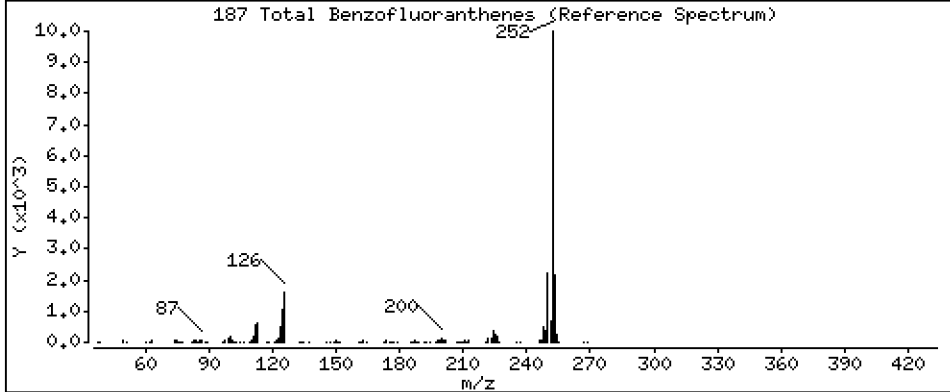
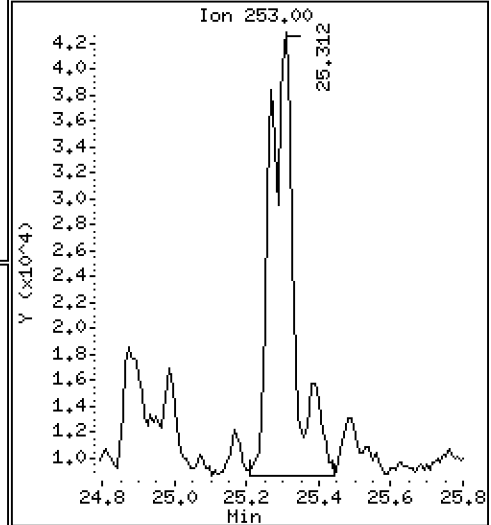
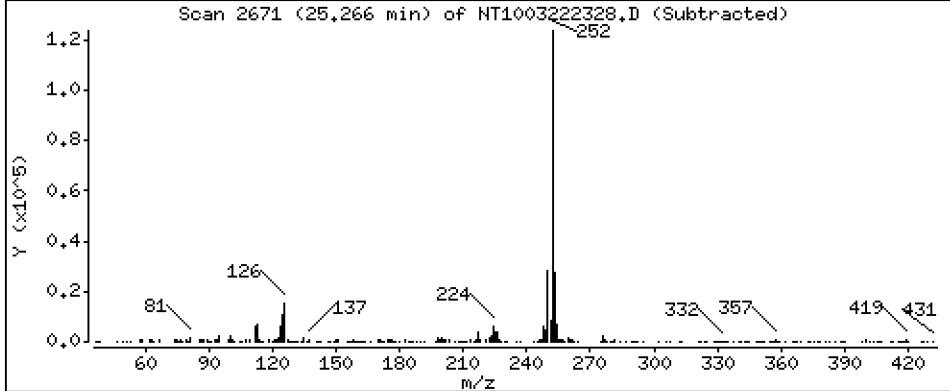
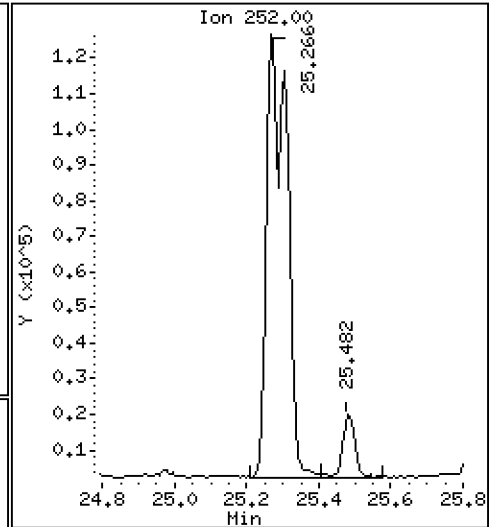
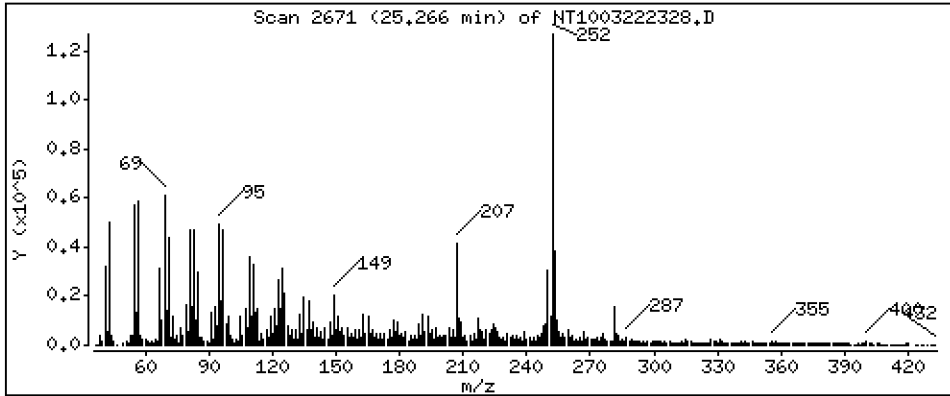
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 2,589 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222328.D  
 Lab Smp Id: 23A0179-12RE1  
 Inj Date : 23-MAR-2023 10:11  
 Operator : VTS  
 Smp Info : 23A0179-12RE1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 10:11 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 23  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |            |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|------------|
|                                 |       |     |                        |        |         |          | ON-COLUMN      | FINAL      |
|                                 | MASS  |     |                        |        |         |          | (ug/mL)        | (ug/mL)    |
| \$ 1 2-Fluorophenol             | 112   |     | 6.867                  | 6.851  | (0.756) | 259747   | 5.37621        | 5.376      |
| \$ 2 Phenol-d5                  | 99    |     | 8.458                  | 8.450  | (0.931) | 348121   | 5.49251        | 5.493      |
| 3 Phenol                        | 94    |     | 8.481                  | 8.474  | (0.934) | 158953   | 2.41339        | 2.413      |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.728                  | 8.721  | (0.961) | 320427   | 5.92036        | 5.920      |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | Compound Not Detected. |        |         |          |                |            |
| 6 2-Chlorophenol                | 128   |     | Compound Not Detected. |        |         |          |                |            |
| 7 1,3-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |            |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.084                  | 9.085  | (1.000) | 159763   | 4.00000        |            |
| 9 1,4-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |            |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.449                  | 9.441  | (1.040) | 137303   | 3.53249        | 3.532      |
| 12 1,2-Dichlorobenzene          | 146   |     | Compound Not Detected. |        |         |          |                |            |
| 11 Benzyl alcohol               | 108   |     | 9.364                  | 9.356  | (1.031) | 7539     | 0.24387        | 0.2439     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | Compound Not Detected. |        |         |          |                |            |
| 13 2-Methylphenol               | 108   |     | 9.597                  | 9.589  | (1.056) | 1133     | 0.02360        | 0.02360    |
| 17 Hexachloroethane             | 117   |     | Compound Not Detected. |        |         |          |                |            |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | Compound Not Detected. |        |         |          |                |            |
| 15 4-Methylphenol               | 108   |     | 9.868                  | 9.861  | (1.086) | 13350    | 0.26390        | 0.2639     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.187                 | 10.179 | (0.880) | 215353   | 3.70107        | 3.701      |
| 19 Nitrobenzene                 | 77    |     | Compound Not Detected. |        |         |          |                |            |
| 20 Isophorone                   | 82    |     | Compound Not Detected. |        |         |          |                |            |
| 21 2-Nitrophenol                | 139   |     | Compound Not Detected. |        |         |          |                |            |
| 22 2,4-Dimethylphenol           | 107   |     | Compound Not Detected. |        |         |          |                |            |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | Compound Not Detected. |        |         |          |                |            |
| 24 Benzoic acid                 | 105   |     | 11.020                 | 11.105 | (0.952) | 19006    | 0.65183        | 0.6518 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | Compound Not Detected. |        |         |          |                |            |
| 26 1,2,4-Trichlorobenzene       | 180   |     | Compound Not Detected. |        |         |          |                |            |
| * 27 Naphthalene-d8             | 136   |     | 11.580                 | 11.572 | (1.000) | 576470   | 4.00000        |            |
| 28 Naphthalene                  | 128   |     | 11.618                 | 11.618 | (1.003) | 20886    | 0.13676        | 0.1368     |
| 29 4-Chloroaniline              | 127   |     | Compound Not Detected. |        |         |          |                |            |
| 30 Hexachlorobutadiene          | 225   |     | Compound Not Detected. |        |         |          |                |            |
| 31 4-Chloro-3-methylphenol      | 107   |     | Compound Not Detected. |        |         |          |                |            |
| 32 2-Methylnaphthalene          | 142   |     | 13.018                 | 13.018 | (1.124) | 12429    | 0.11278        | 0.1128     |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                |            |

| Compounds                         | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
|                                   |       |     |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| \$ 36 2-Fluorobiphenyl            | 172   |     | 13.800 | 13.800 | (0.907) | 516348   | 4.02296              | 4.023            |
| 37 2-Chloronaphthalene            | 162   |     |        |        |         |          |                      |                  |
| 38 2-Nitroaniline                 | 65    |     |        |        |         |          |                      |                  |
| 39 Dimethylphthalate              | 163   |     |        |        |         |          |                      |                  |
| 40 Acenaphthylene                 | 152   |     | 14.891 | 14.884 | (0.979) | 14789    | 0.09132              | 0.09132          |
| 41 2,6-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| * 42 Acenaphthene-d10             | 164   |     | 15.209 | 15.201 | (1.000) | 324467   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 44 Acenaphthene                   | 153   |     | 15.270 | 15.263 | (1.004) | 9134     | 0.09130              | 0.09130          |
| 45 2,4-Dinitrophenol              | 184   |     |        |        |         |          |                      |                  |
| 46 Dibenzofuran                   | 168   |     | 15.595 | 15.595 | (1.025) | 18578    | 0.12593              | 0.1259           |
| 47 4-Nitrophenol                  | 109   |     |        |        |         |          |                      |                  |
| 48 2,4-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| 50 Diethylphthalate               | 149   |     | 16.175 | 16.175 | (1.064) | 11004    | 0.10640              | 0.1064           |
| 49 Fluorene                       | 166   |     | 16.314 | 16.314 | (1.073) | 19079    | 0.16438              | 0.1644           |
| 51 4-Chlorophenyl-phenylether     | 204   |     |        |        |         |          |                      |                  |
| 52 4-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     |        |        |         |          |                      |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     |        |        |         |          |                      |                  |
| \$ 55 2,4,6-Tribromophenol        | 330   |     | 16.854 | 16.846 | (1.108) | 126570   | 8.38299              | 8.383            |
| 56 4-Bromophenyl-phenylether      | 248   |     |        |        |         |          |                      |                  |
| 57 Hexachlorobenzene              | 284   |     |        |        |         |          |                      |                  |
| 58 Pentachlorophenol              | 266   |     |        |        |         |          |                      |                  |
| * 59 Phenanthrene-d10             | 188   |     | 18.268 | 18.260 | (1.000) | 621505   | 4.00000              |                  |
| 60 Phenanthrene                   | 178   |     | 18.315 | 18.307 | (1.003) | 125269   | 0.73918              | 0.7392           |
| 61 Anthracene                     | 178   |     | 18.407 | 18.400 | (1.008) | 71769    | 0.44147              | 0.4415           |
| 62 Carbazole                      | 167   |     | 18.748 | 18.732 | (1.026) | 19803    | 0.13594              | 0.1359           |
| 63 Di-n-butylphthalate            | 149   |     | 19.560 | 19.545 | (1.071) | 12496    | 0.06379              | 0.06379          |
| 64 Fluoranthene                   | 202   |     | 20.744 | 20.713 | (0.888) | 363558   | 1.57255              | 1.573            |
| 65 Pyrene                         | 202   |     | 21.154 | 21.139 | (0.905) | 368297   | 1.55295              | 1.553            |
| \$ 66 Terphenyl-d14               | 244   |     | 21.440 | 21.433 | (0.917) | 711327   | 3.99392              | 3.994            |
| 67 Butylbenzylphthalate           | 149   |     | 22.385 | 22.377 | (0.958) | 14880    | 0.17868              | 0.1787           |
| 68 Benzo(a)anthracene             | 228   |     | 23.337 | 23.322 | (0.999) | 196716   | 0.96864              | 0.9686           |
| * 69 Chrysene-d12                 | 240   |     | 23.368 | 23.353 | (1.000) | 575362   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     |        |        |         |          |                      |                  |
| 71 Chrysene                       | 228   |     | 23.407 | 23.399 | (1.002) | 268467   | 1.35309              | 1.353            |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 23.430 | 23.415 | (0.959) | 220687   | 1.61123              | 1.611            |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 24.437 | 24.421 | (1.000) | 935621   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149   |     |        |        |         |          |                      |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 25.265 | 25.250 | (0.969) | 271479   | 1.39103              | 1.391 (H)        |
| 75 Benzo(k)fluoranthene           | 252   |     | 25.304 | 25.296 | (0.971) | 250656   | 1.26484              | 1.265            |
| 76 Benzo(a)pyrene                 | 252   |     | 25.947 | 25.923 | (0.995) | 174658   | 1.00098              | 1.001            |
| * 77 Perylene-d12                 | 264   |     | 26.070 | 26.040 | (1.000) | 602076   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 28.832 | 28.793 | (1.106) | 111329   | 0.50151              | 0.5015           |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 28.847 | 28.816 | (1.107) | 26751    | 0.14515              | 0.1451 (M)       |
| 80 Benzo(g,h,i)perylene           | 276   |     | 29.655 | 29.601 | (1.137) | 103564   | 0.53908              | 0.5391           |
| 90 N-Nitrosodimethylamine         | 74    |     |        |        |         |          |                      |                  |
| 91 Aniline                        | 93    |     |        |        |         |          |                      |                  |
| 93 Benzidine                      | 184   |     |        |        |         |          |                      |                  |
| 103 Pyridine                      | 79    |     |        |        |         |          |                      |                  |
| 105 1-methylnaphthalene           | 142   |     | 13.243 | 13.235 | (1.144) | 9448     | 0.09357              | 0.09357          |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     |        |        |         |          |                      |                  |

| Compounds                     | QUANT SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |  |
|-------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|--|
|                               |           |                        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |  |
| 187 Total Benzofluoranthenes  | 252       | 25.265                 | 25.296 | (0.969) | 487943   | 2.58945              | 2.589            |  |
| 120 2,3,4,6-Tetrachlorophenol | 232       | Compound Not Detected. |        |         |          |                      |                  |  |

### QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-MAR-2023  
 Lab File ID: NT1003222328.D Calibration Time: 03:15  
 Lab Smp Id: 23A0179-12RE1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 137603   | 68802      | 275206  | 159763 | 16.10 |
| 27 Naphthalene-d8     | 494588   | 247294     | 989176  | 576470 | 16.56 |
| 42 Acenaphthene-d10   | 278674   | 139337     | 557348  | 324467 | 16.43 |
| 59 Phenanthrene-d10   | 509229   | 254615     | 1018458 | 621505 | 22.05 |
| 69 Chrysene-d12       | 462271   | 231136     | 924542  | 575362 | 24.46 |
| 134 Di-n-octylphthala | 782572   | 391286     | 1565144 | 935621 | 19.56 |
| 77 Perylene-d12       | 551153   | 275577     | 1102306 | 602076 | 9.24  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.09     | 8.59     | 9.59  | 9.08   | -0.00 |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.58  | 0.07  |
| 42 Acenaphthene-d10   | 15.20    | 14.70    | 15.70 | 15.21  | 0.05  |
| 59 Phenanthrene-d10   | 18.26    | 17.76    | 18.76 | 18.27  | 0.04  |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.37  | 0.07  |
| 134 Di-n-octylphthala | 24.42    | 23.92    | 24.92 | 24.44  | 0.06  |
| 77 Perylene-d12       | 26.04    | 25.54    | 26.54 | 26.07  | 0.12  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



REVIEW SUMMARY FOR FILE - NT1003222328.D

Lab ID: 23A0179-12RE1  
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 10:11

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND     |
|-------|---------|---------|--------------|
| 0.952 | 0.960   | -0.0080 | Benzoic acid |

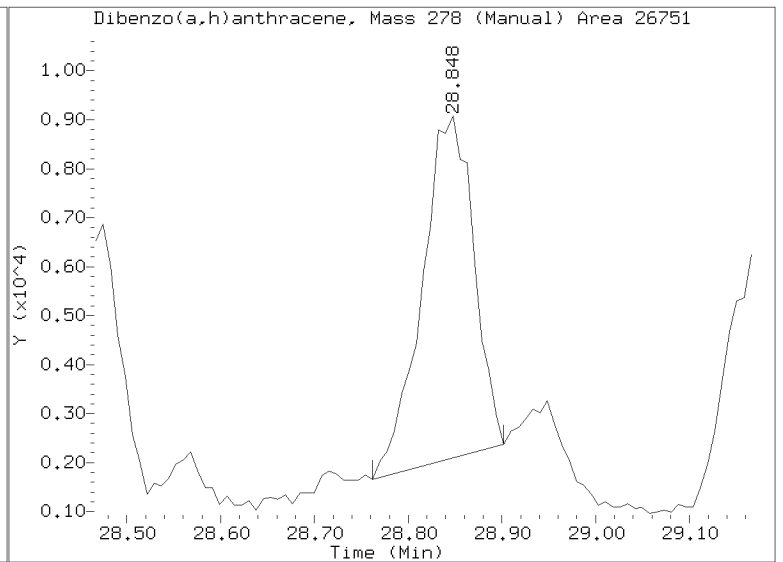
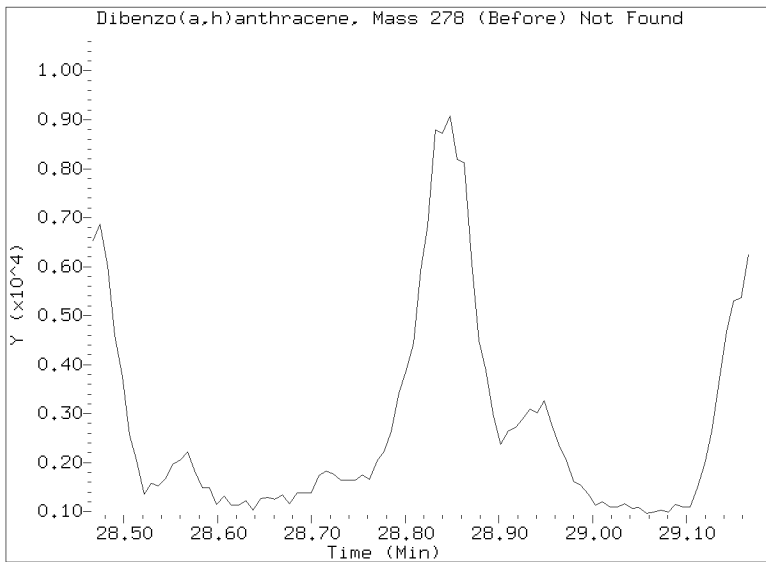
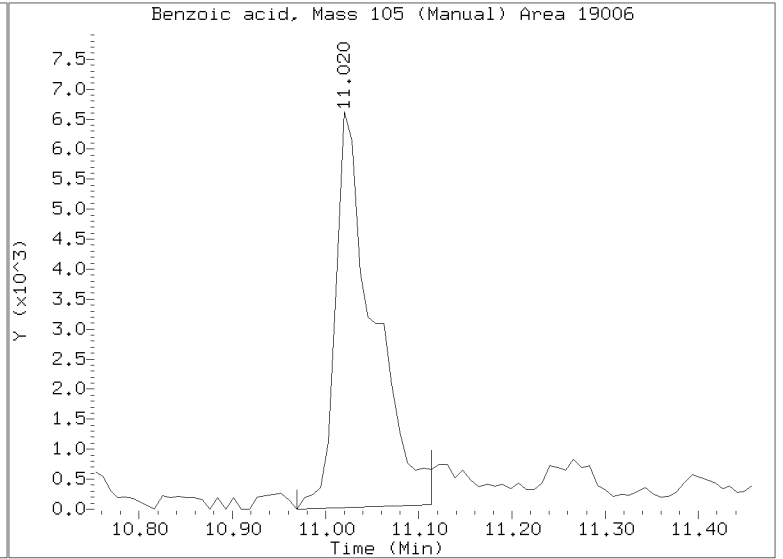
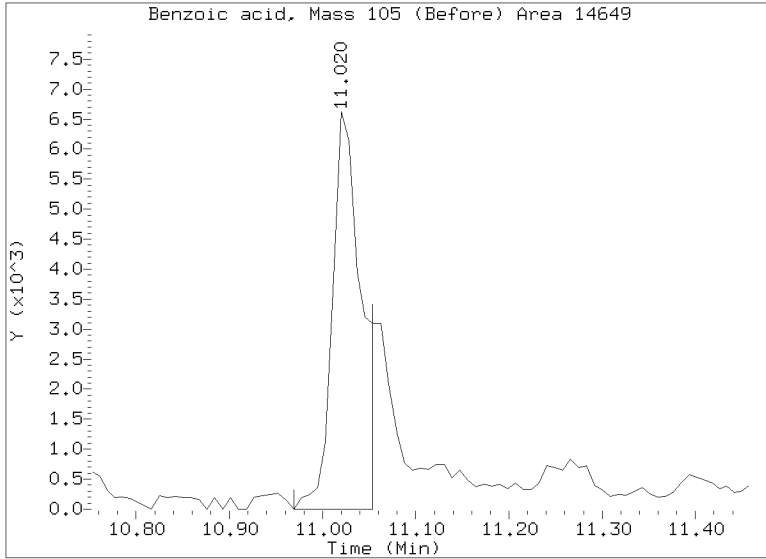
RRT check based on Ccal File: NT1003222317.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222328.D  
Injection Date: 23-MAR-2023 10:11  
Lab ID: 23A0179-12RE1 Client ID:  
Report Date: 03/25/2023 10:16







Batch: BLA0557

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:AOC4 List)

**WO Comments**

23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)  
23A0180: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

**Analysis: 8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf)**

| Lab Number & Container | % Solids | Initial (g)          |        | (REQ) GPC C/U | Water Wash mL | Final Effective Vol (mL) | Vol (mL) to Lab | Extraction Comments |
|------------------------|----------|----------------------|--------|---------------|---------------|--------------------------|-----------------|---------------------|
|                        |          | Target Dry: 10 (Wet) | Actual |               |               |                          |                 |                     |
| 23A0179-01 A           | 59.0     | (16.96)              | 17.05  | (1:1)<br>103  | 1mL           | 1                        | 0.5             |                     |
| 23A0179-02 A           | 66.2     | (15.10)              | 15.82  | (1:1)         | 1mL           | 1                        | 0.5             |                     |
| 23A0179-03 A           | 58.6     | (17.07)              | 17.77  | (1:1)         | 1mL           | 1                        | 0.5             |                     |
| 23A0179-04 A           | 53.7     | (18.61)              | 18.69  | (1:1)         | 1mL           | 1                        | 0.5             |                     |
| 23A0179-05 A           | 67.4     | (14.84)              | 15.09  | (1:1)         | 1mL           | 1                        | 0.5             |                     |
| 23A0179-06 A           | 54.0     | (18.53)              | 18.84  | (1:1)         | 1mL           | 1                        | 0.5             |                     |
| 23A0179-07 A           | 74.6     | (13.41)              | 13.41  | (1:1)         | 1mL           | 1                        | 0.5             |                     |
| 23A0179-08 A           | 61.4     | (16.30)              | 16.95  | (1:1)         | 1mL           | 1                        | 0.5             |                     |
| 23A0179-09 A           | 53.0     | (18.86)              | 18.90  | (1:1)         | 1mL           | 1                        | 0.5             |                     |
| 23A0179-10 A           | 49.3     | (20.30)              | 20.77  | (1:1)         | 1mL           | 1                        | 0.5             |                     |
| 23A0179-11 A           | 49.6     | (20.15)              | 20.83  | (1:1)         | 1mL           | 1                        | 0.5             |                     |
| 23A0179-12 A           | 49.4     | (20.26)              | 20.82  | (1:1)         | 1mL           | 1                        | 0.5             |                     |
| 23A0180-01 A           | 51.4     | (19.47)              | 19.57  | (1:1)         | 1mL           | 1                        | 0.5             |                     |
| 23A0180-02 A           | 53.0     | (18.86)              | 18.99  | (1:1)         | 1mL           | 1                        | 0.5             |                     |
| 23A0180-03 A           | 54.3     | (18.41)              | 19.14  | (1:1)         | 1mL           | 1                        | 0.5             |                     |
| 23A0180-04 A           | 56.1     | (17.83)              | 17.94  | (1:1)         | 1mL           | 1                        | 0.5             |                     |

**Batch QC**

| Lab Number   | % Solids | Initial (g)          |        | (REQ) GPC C/U | Water Wash mL | Final Effective Vol (mL) | Vol (mL) to Lab | Extraction Comments                      |
|--------------|----------|----------------------|--------|---------------|---------------|--------------------------|-----------------|--|
|              |          | Target Dry: 10 (Wet) | Actual |               |               |                          |                 |  |
| BLA0557-BLK1 | 100.0    | (10.00)              | 10.00  | (1:1)<br>103  | 1mL           | 1                        | 0.5             | Use 5g Neutral Sodium Sulfate for Blanks |
| BLA0557-BS1  | 100.0    | (10.00)              | 10.00  | (1:1)         | 1mL           | 1                        | 0.5             | Use 5g Neutral Sodium Sulfate for Blanks |
| BLA0557-BSD1 | 100.0    | (10.00)              | 10.00  | (1:1)         | 1mL           | 1                        | 0.5             | Use 5g Neutral Sodium Sulfate for Blanks |
| BLA0557-MS1  | 74.6     | (13.41)              | 13.41  | (1:1)         | 1mL           | 1                        | 0.5             | Use 23A0179-07                           |
| BLA0557-MSD1 | 74.6     | (13.41)              | 13.41  | (1:1)         | 1mL           | 1                        | 0.5             | Use 23A0179-07                           |
| BLA0557-SRM1 | 100.0    | (10.00)              | 10.00  | (1:1)         | 1mL           | 1                        | 0.5             | Use K003477                              |

+1g DI WATER

R
1/25/23
NRK
2/5/23
01/25/23
CT
14:24

Client ID verified By

Date

Preparation Reviewed By

Date

Extraction Date and Time



WO Comments

23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)  
23A0180: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Steps

Reagents Used

Surrogates & Spike Standards Used

| Microwave  | Station/Reagent                         | Standard ID                | Type                      | Vial ID / Standard ID    | Vol uL         | Analyst  | Witness   |
|--|---|----------------------------|---------------------------|--------------------------|----------------|----------|-----------|
| 2 3<br>Analyst/Date: <i>RG 1/25/23</i>   | Microwave                               |                            | Surrogate                 | A K010466                | 50µL           | <i>R</i> | <i>CT</i> |
|  | Anhydrous Sodium Sulfate                | <i>L000953</i>             | 100/150µg/mL              | Exp Date: <i>5/19/23</i> |                |          |           |
| Pre-GPC KD<br>100°C<br>Exchange to Hexane<br>(add 10 mL to KD)<br>Analyst/Date: <i>TWC 1/31/23</i> | 1:1 Methylene Chloride/Acetone          | <i>L000281</i>             | Full List Spike (Freezer) | 7 K011369 (V)            | 50µL           | <i>R</i> | <i>CT</i> |
|  | Methylene Chloride                      | <i>L000808</i>             | 100µg/mL                  | Exp Date: <i>8/31/23</i> |                |          |           |
|  | Pre-Deactivated Glass Wool              | <i>L000852</i>             | Base Spike                | 56 K011369 (V)           | 50µL           |          |           |
| Analyst/Date: <i>TWC 1/31/23</i>   | Pre GPC KD                              |                            | 200µg/mL                  | Exp Date: <i>4/19/23</i> |                | <i>R</i> | <i>CT</i> |
|  | Analyt: <i>TWC</i> Date: <i>1/31/23</i> | Pre-Deactivated Glass Wool | N/A                       | Acid Spike               | 38 K011369 (V) |          |           |
| TurboVap<br>Pre GPC<br>Analyst/Date: <i>LJ 1/31/23</i>   | Anhydrous Sodium Sulfate                | <i>N/A</i>                 | 100/200µg/mL              | Exp Date: <i>4/19/23</i> |                | <i>R</i> | <i>CT</i> |
|  | Methylene Chloride                      | <i>K011573</i>             |                           |                          |                |          |           |
|  | Hexane                                  | <i>L000808</i>             |                           |                          |                |          |           |
| Post GPC KD<br>80-85°C<br>Analyst/Date: <i>LJ 2/3/23</i>   | GPC Filter Prep                         |                            |                           |                          |                |          |           |
|  | Analyt: <i>LJ</i> Date: <i>1/31/23</i>  | Methylene Chloride         | <i>L000808</i>            |                          |                |          |           |
| TurboVap<br>Analyst/Date: <i>NR's 2/5/23</i>   | GPC Calibration File                    | <i>CLA0166</i>             |                           |                          |                |          |           |
|  | Post GPC KD                             |                            |                           |                          |                |          |           |
| Water Wash<br>Analyst/Date: <i>NR's 2/5/23</i>   | Analyt: <i>LJ</i> Date: <i>2/3/23</i>   | Methylene Chloride         | <i>L000808</i>            |                          |                |          |           |
|  | Methylene Chloride                      | <i>L000808</i>             |                           |                          |                |          |           |
|  | Vialing                                 |                            |                           |                          |                |          |           |
|  | Analyt: <i>NR's</i> Date: <i>2/5/23</i> | Methylene Chloride         | <i>L000808</i>            |                          |                |          |           |
|  | Methylene Chloride                      | <i>L000808</i>             |                           |                          |                |          |           |

MANUALLY ENTER EXPIRATION DATES!

(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.

If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator in the Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).





**WO Comments**

23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)  
23A0180: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

**Prep Instructions**

**SPECIAL INSTRUCTIONS:**

1. Weigh into beakers—lightly dry with Sodium Sulfate.
2. Transfer to microwave vessel.
3. Add DCM ONLY to the vessels (until solvent is 3 inches above soil layer after homogenization).
4. Add surr/spike.
5. Microwave on appropriate power setting determined by # of samples.
6. After microwave-re-homogenize while hot then let cool 10-15 min in Refridgerator 05. Re-homogenize while cool.
7. Decant DCM into Erlenmeyer flask with a funnel containing pre-deactivated glasswool.
8. Rinse with DCM
9. Microwave a 2nd time using 1:1 DCM/ACE.
10. Let cool and decant the solvent then empty the soil into the funnel and rinse with DCM.
11. KD: Add 10 mL Hexane directly to extract in the KD.
12. GPC REQUIRED 100°C water bath (CLP) KD to 5mL.
13. Vialers to take 1:5 Split Pre- GPC.
14. (After GPC): KD at 80°C.
15. TurboVap to 1mL in DCM.
16. WATER WASH REQUIRED:
  - 16a. Vial 1mL of all extracts in 2mL amber vials in DCM.
  - 16b. Add ~0.5mL DI water and vortex for ~5 seconds each.
  - 16c. Centrifuge extracts for 5 minutes at 1500-2000rpm.
  - 16d. Transfer and vial 0.5mL to new 2mL amber vials (Avoiding collecting water in syringe and cleaning syringe with Acetone and DCM between each vial).
17. Archive water wahed vials and deliever new vials to GC Department for analysis.

A. Need Total Solids Y /  N

B. Archive/Freeze  Y /  N



Batch: BLA0557

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:AOC4 List)

Matrix: Solid

Date Prepared: 1/25/23

Balance ID: B139298082 Set Up By: C90 1/24/23

**WO Comments**

23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)  
23A0180: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

**The following standards may be missing from this batch!**

| Designator | Description         |
|------------|---------------------|
| 39         | Benzidine Spike     |
| QLS 14     | QLS Spike (Freezer) |



Extraction Parameter: SVOA Extraction Batch BLA0478

Total Solids Batch: BLA0478 Work Order(s): 23A0180 01-15

| Screens: Soil/Sediment/Solid/Other:   | Analyst/Date      |
|---|-------------------|
| <input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= <u>01-15</u>                                       | <u>CR 1/20/23</u> |
| <input checked="" type="checkbox"/> Standing Water Decanted (Not shared)= <u>01-15</u>  | <u>CR 1/20/23</u> |
| <input type="checkbox"/> Standing Water Homogenized (Shared samples)=   |                   |
| <input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=   |                   |
| <input type="checkbox"/> Rocks (%+size)?  |                   |
| <input type="checkbox"/> Organics (Leaves/sticks/grass)=  |                   |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors=   |                   |
| <input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=   |                   |
| <input checked="" type="checkbox"/> Previously Frozen = <u>01-15</u>  | <u>CR 1/20/23</u> |
| <input type="checkbox"/> Other (Details)=   |                   |
| Aqueous:  |                   |
| <input type="checkbox"/> No Anomalies   |                   |
| <input type="checkbox"/> Turbid/Color=  |                   |
| <input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)   |                   |
| <input type="checkbox"/> Emulsions (%)=   |                   |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors=   |                   |
| <input type="checkbox"/> Other (Details)=   |                   |
| <input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=  |                   |
| <input checked="" type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).<br><u>No GPC printout for 180-41</u> | <u>TWC 2/4/23</u> |
| <input checked="" type="checkbox"/> Share Samples Y/ <u>(N)</u>   | <u>CR 1/20/23</u> |
| <input checked="" type="checkbox"/> Multiple Jars Y/ <u>(N)</u>   | <u>CR 1/20/23</u> |
| <input type="checkbox"/> Sample Pre-Screens indicate analyte activity=  |                   |
| <input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=  |                   |





Extraction Parameter: SVOA Extraction Batch BLA0557

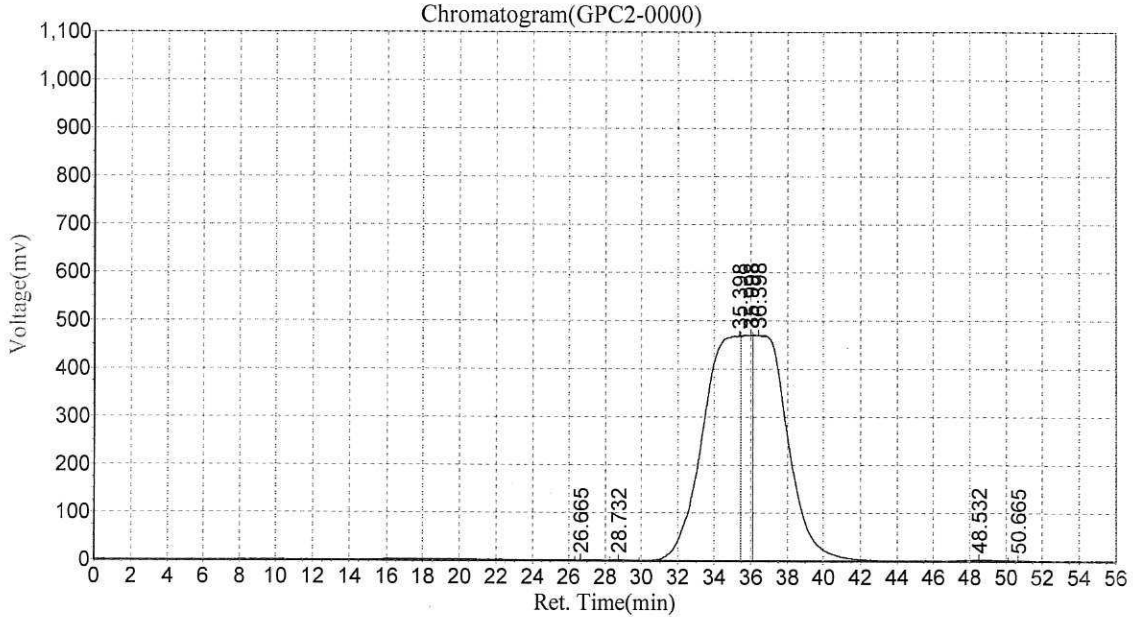
Total Solids Batch: BLA0477 Work Order(s): 23A0179

| Screens: Soil/Sediment/Solid/Other:   | Analyst/Date             |
|---|--------------------------|
| <input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= <u>φ1-12</u> | <u>φ</u> <u>φ1/21/23</u> |
| <input checked="" type="checkbox"/> Standing Water Decanted (Not shared)= <u>φ1-12</u>                  | <u>φ</u> <u>φ1/21/23</u> |
| <input type="checkbox"/> Standing Water Homogenized (Shared samples)=                                   | <u>φ</u>                 |
| <input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=   |                          |
| <input type="checkbox"/> Rocks (%+size)?  |                          |
| <input type="checkbox"/> Organics (Leaves/sticks/grass)=  |                          |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors=   |                          |
| <input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=                             |                          |
| <input type="checkbox"/> Previously Frozen =  |                          |
| <input type="checkbox"/> Other (Details)=   |                          |
| <b>Aqueous:</b>   |                          |
| <input checked="" type="checkbox"/> No Anomalies  |                          |
| <input type="checkbox"/> Turbid/Color=  |                          |
| <input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)                             |                          |
| <input type="checkbox"/> Emulsions (%)=   |                          |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors=   |                          |
| <input type="checkbox"/> Other (Details)=   |                          |
| <input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=                                    |                          |
| <input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).           |                          |
| <input checked="" type="checkbox"/> Share Samples Y/N   | <u>φ</u> <u>φ1/21/23</u> |
| <input checked="" type="checkbox"/> Multiple Jars Y/N   | <u>φ</u> <u>φ1/21/23</u> |
| <input type="checkbox"/> Sample Pre-Screens indicate analyte activity=                                  |                          |
| <input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=                            |                          |

# BLA0557 23A0179/180 PSSDA SVOC

Date:2023-02-01,6:46:35 PM  
 Data File:c:\n2000\data\gpc2\020123\GPC2-0000  
 Method File:E\GPC2\_InHouse.mtd

AnalystE°TWC  
 Date/Time2023-02-01,6:46:36 PM



### Results

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 26.665   | 1995.319    | 102924.602    | 0.0699  |
| 2            |         | 28.732   | 2357.967    | 131025.945    | 0.0890  |
| 3            |         | 35.398   | 469691.719  | 65839140.000  | 44.7192 |
| 4            |         | 35.998   | 470773.000  | 18817820.000  | 12.7814 |
| 5            |         | 36.398   | 470907.531  | 61494288.000  | 41.7681 |
| 6            |         | 48.532   | 3943.348    | 615627.063    | 0.4181  |
| 7            |         | 50.665   | 2620.130    | 226985.094    | 0.1542  |
| <b>Total</b> |         |          | 1422289.014 | 147227810.703 | 100.000 |

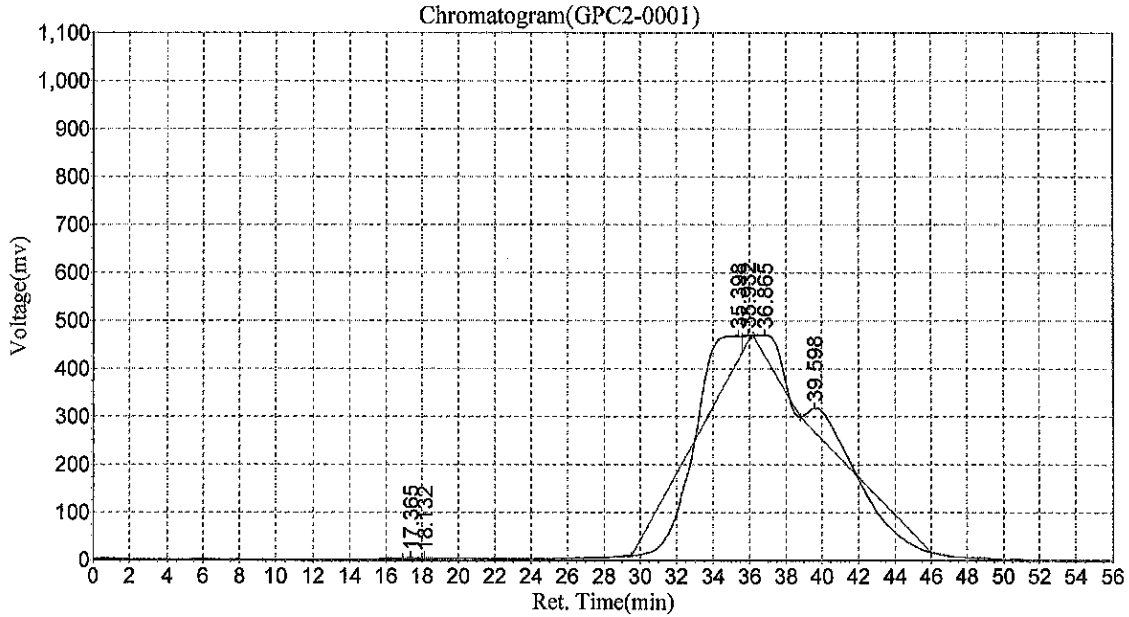
### Ingredient Table

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

# BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-01,7:44:20 PM  
 Data File:c:\n2000\data\gpc2\020123\GPC2-0001  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:°TWC  
 Date/Time:2023-02-01,7:44:20 PM



### Results

| Peak No.     | Peak ID | Ret Time | Height     | Area        | Conc    |
|--------------|---------|----------|------------|-------------|---------|
| 1            |         | 17.365   | 3319.585   | 126147.742  | 2.0858  |
| 2            |         | 18.132   | 2752.680   | 100309.836  | 1.6586  |
| 3            |         | 35.398   | 51061.234  | 777441.750  | 12.8548 |
| 4            |         | 35.932   | 15304.072  | 607308.625  | 10.0417 |
| 5            |         | 36.865   | 43937.770  | 4294793.500 | 71.0132 |
| 6            |         | 39.598   | 48834.777  | 141882.438  | 2.3460  |
| <b>Total</b> |         |          | 165210.118 | 6047883.891 | 100.000 |

### Ingredient Table

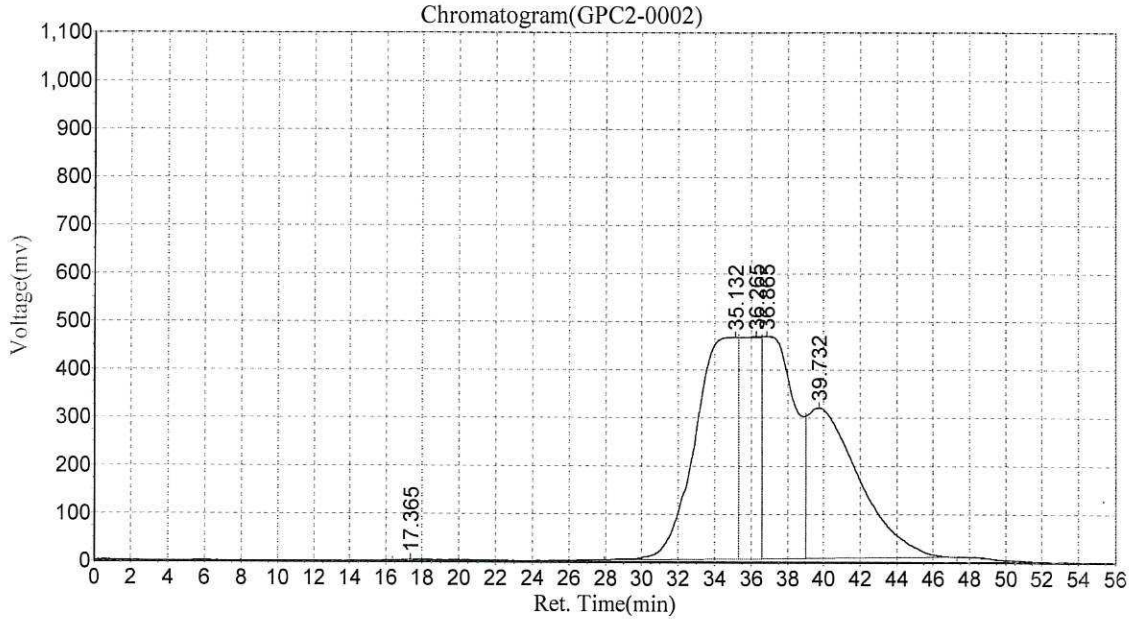
| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |



# BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-01,8:42:01 PM  
 Data File:c:\n2000\data\gpc2\020123\GPC2-0002  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:ETWC  
 Date/Time:2023-02-01,8:42:01 PM



### Results

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.365   | 2749.493    | 157590.672    | 0.0692  |
| 2            |         | 35.132   | 462095.781  | 73805384.000  | 32.3949 |
| 3            |         | 36.265   | 462323.031  | 35097132.000  | 15.4049 |
| 4            |         | 36.865   | 463292.438  | 56678780.000  | 24.8776 |
| 5            |         | 39.732   | 312911.344  | 62091668.000  | 27.2534 |
| <b>Total</b> |         |          | 1703372.086 | 227830554.672 | 100.000 |

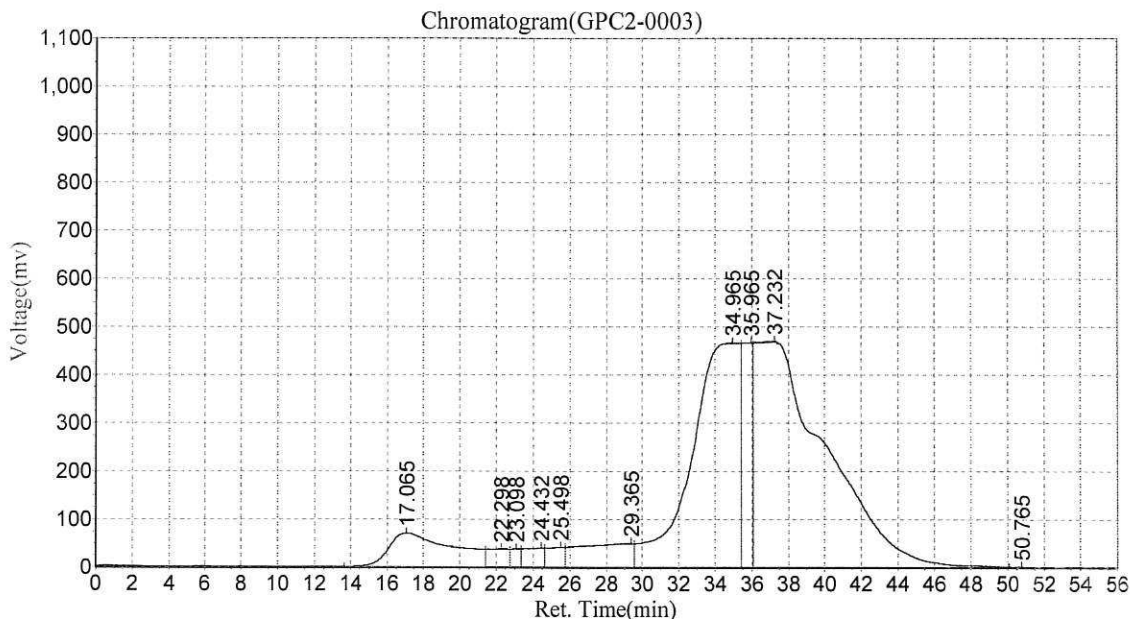
### Ingredient Table

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

# BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-01,9:39:45 PM  
 Data File:c:\n2000\data\gpc2\020123\GPC2-0003  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:ETWC  
 Date/Time:2023-02-01,9:39:45 PM



### Results

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.065   | 70500.383   | 17436690.000  | 6.4937  |
| 2            |         | 22.298   | 38425.938   | 3039292.250   | 1.1319  |
| 3            |         | 23.098   | 38654.453   | 1380127.625   | 0.5140  |
| 4            |         | 24.432   | 40334.980   | 2991851.000   | 1.1142  |
| 5            |         | 25.498   | 42350.004   | 2818469.250   | 1.0496  |
| 6            |         | 29.365   | 50055.840   | 10590151.000  | 3.9440  |
| 7            |         | 34.965   | 466533.469  | 84658504.000  | 31.5283 |
| 8            |         | 35.965   | 466816.094  | 18656634.000  | 6.9481  |
| 9            |         | 37.232   | 469014.250  | 126726408.000 | 47.1951 |
| 10           |         | 50.765   | 2519.673    | 217890.219    | 0.0811  |
| <b>Total</b> |         |          | 1685205.083 | 268516017.344 | 100.000 |

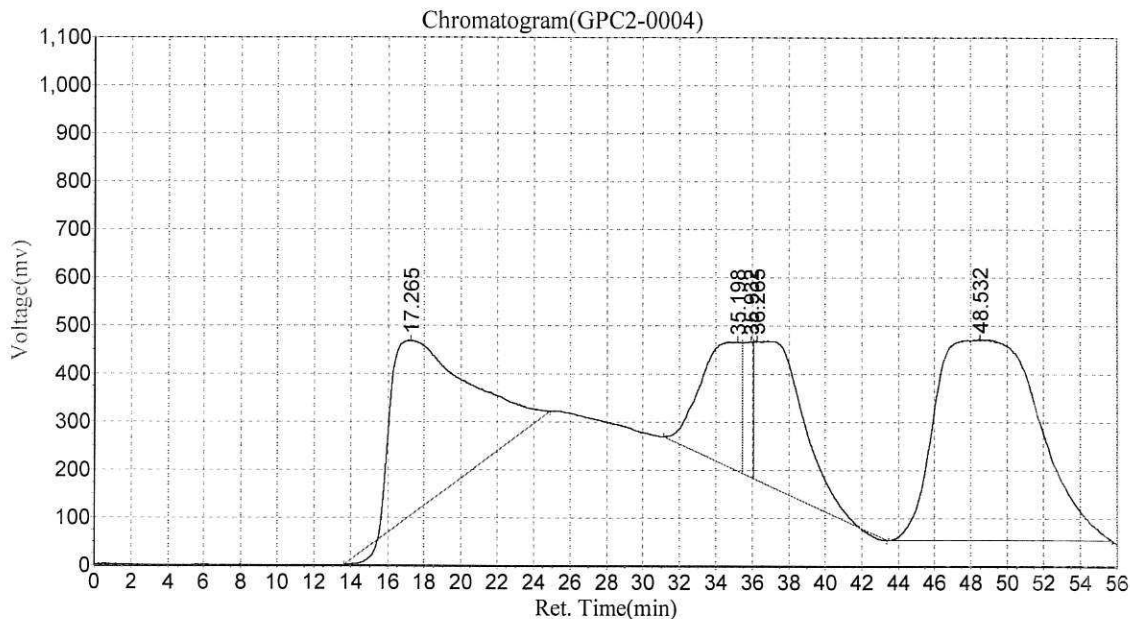
### Ingredient Table

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

-ql  
**BLA0557 23A0179/180 PSSDA SVOC**

Date:2023-02-01,10:37:26 PM  
 Data File:c:\n2000\data\gpc2\020123\GPC2-0004  
 Method File:E:\GPC2\_InHouse.mtd

AnalystE°TWC  
 Date/Time2023-02-01,10:37:27 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.265   | 363343.438  | 102447000.000 | 27.5819 |
| 2            |         | 35.198   | 267340.656  | 38991968.000  | 10.4979 |
| 3            |         | 35.932   | 281599.313  | 9992913.000   | 2.6904  |
| 4            |         | 36.265   | 287959.500  | 55597848.000  | 14.9687 |
| 5            |         | 48.532   | 415497.156  | 164398080.000 | 44.2611 |
| <b>Total</b> |         |          | 1615740.063 | 371427809.000 | 100.000 |

**Ingredient Table**

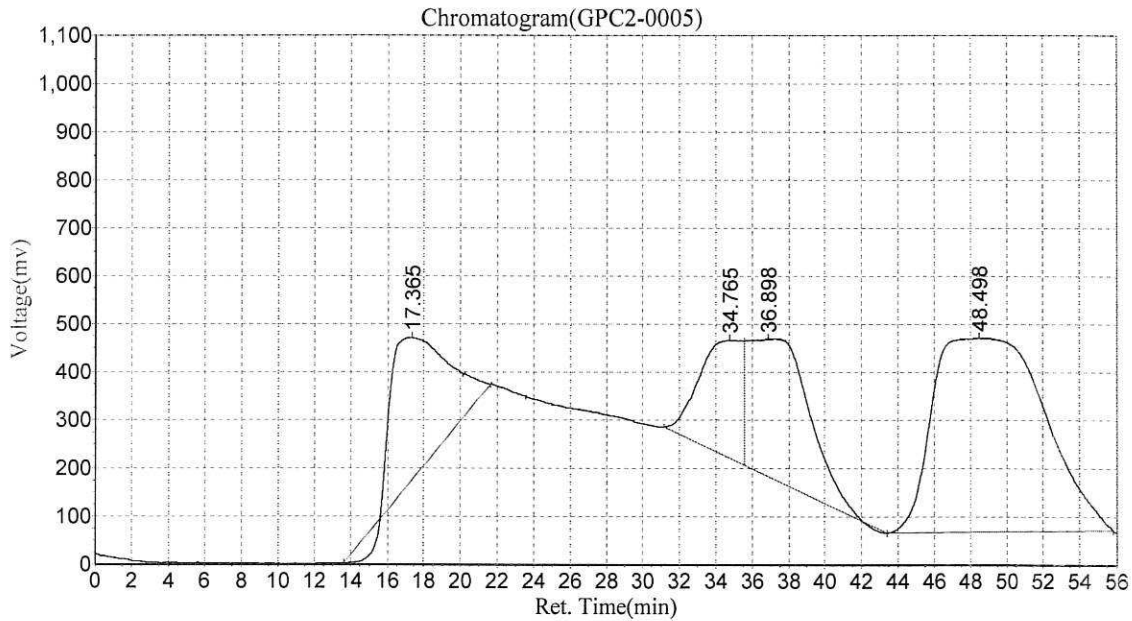
| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |



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**BLA0557 23A0179/180 PSDDA SVOC**

Date:2023-02-01,11:35:10 PM  
 Data File:c:\n2000\data\gpc2\020123\GPC2-0005  
 Method File:E:\GPC2\_InHouse.mtd

Analyst: TWC  
 Date/Time:2023-02-01,11:35:11 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.365   | 295641.281  | 59633704.000  | 17.6956 |
| 2            |         | 34.765   | 244256.891  | 38890904.000  | 11.5404 |
| 3            |         | 36.898   | 284769.469  | 67929608.000  | 20.1573 |
| 4            |         | 48.498   | 399851.469  | 170542672.000 | 50.6066 |
| <b>Total</b> |         |          | 1224519.109 | 336996888.000 | 100.000 |

**Ingredient Table**

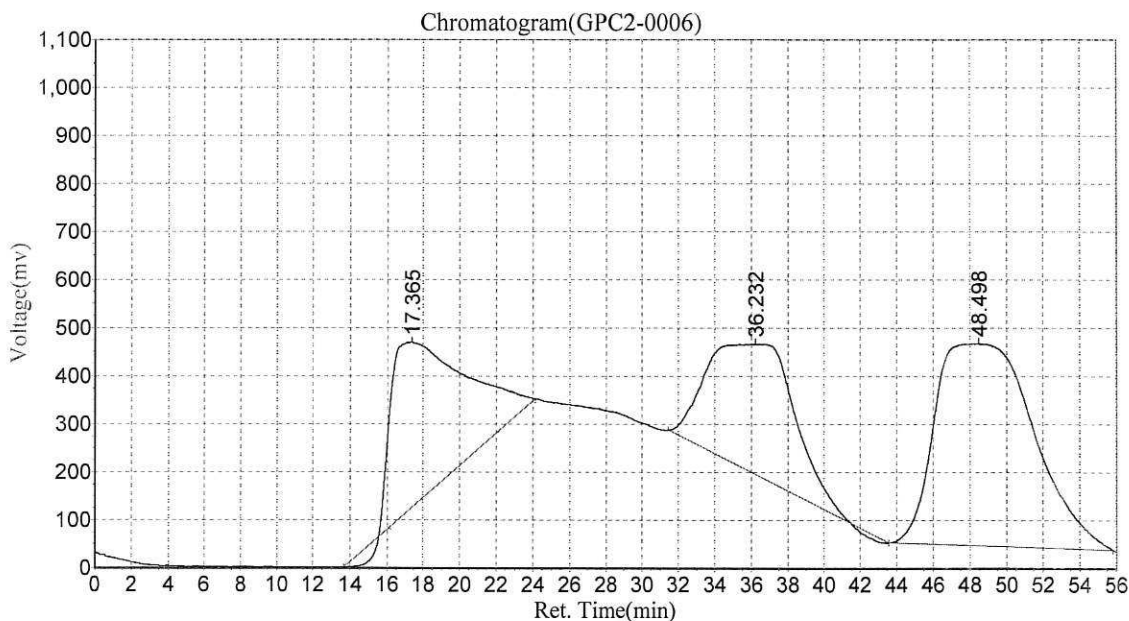
| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

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# BLA0557 23A0179/180 PSDDA SVOC

Date: 2023-02-02, 12:32:52 AM  
 Data File: c:\n2000\data\gpc2\020123\GPC2-0006  
 Method File: E:\GPC2\_InHouse.mtd

Analyst: TWC  
 Date/Time: 2023-02-02, 12:32:52 AM



### Results

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.365   | 343113.500  | 91988000.000  | 27.2041 |
| 2            |         | 36.232   | 271392.031  | 89529040.000  | 26.4769 |
| 3            |         | 48.498   | 419884.000  | 156623440.000 | 46.3190 |
| <b>Total</b> |         |          | 1034389.531 | 338140480.000 | 100.000 |

### Ingredient Table

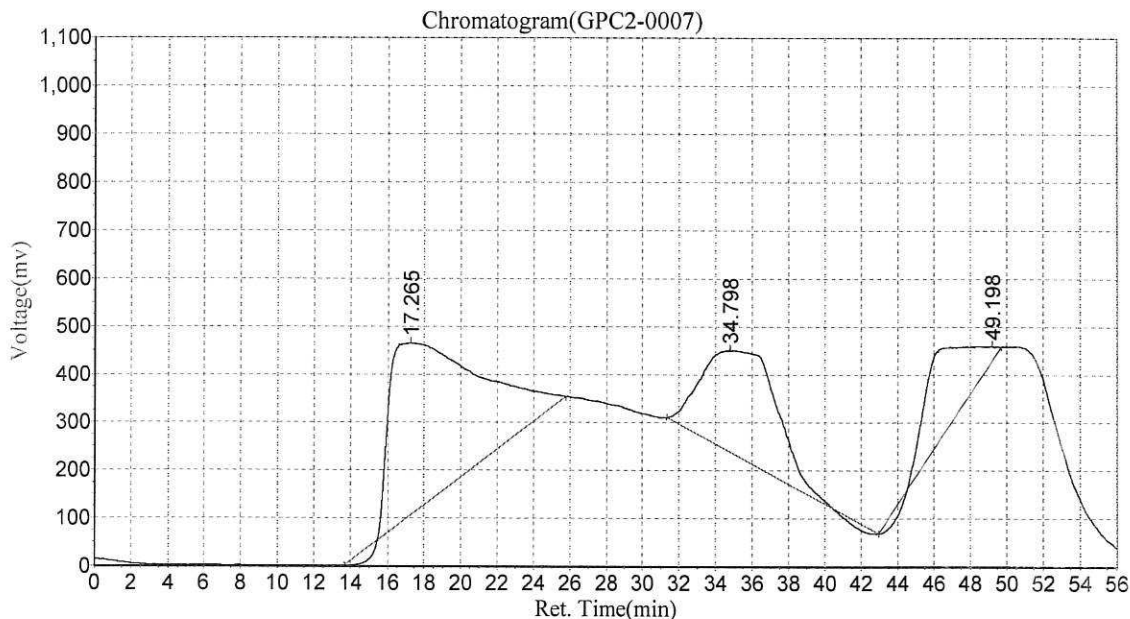
| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |



BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-02,1:30:35 AM  
 Data File:c:\n2000\data\gpc2\020123\GPC2-0007  
 Method File:E:\GPC2\_InHouse.mtd

AnalystE°TWC  
 Date/Time2023-02-02,1:30:36 AM



Results

| Peak No.     | Peak ID | Ret Time | Height     | Area          | Conc    |
|--------------|---------|----------|------------|---------------|---------|
| 1            |         | 17.265   | 359271.781 | 115553368.000 | 55.1164 |
| 2            |         | 34.798   | 212703.641 | 63438104.000  | 30.2586 |
| 3            |         | 49.198   | 31761.660  | 30661946.000  | 14.6251 |
| <b>Total</b> |         |          | 603737.082 | 209653418.000 | 100.000 |

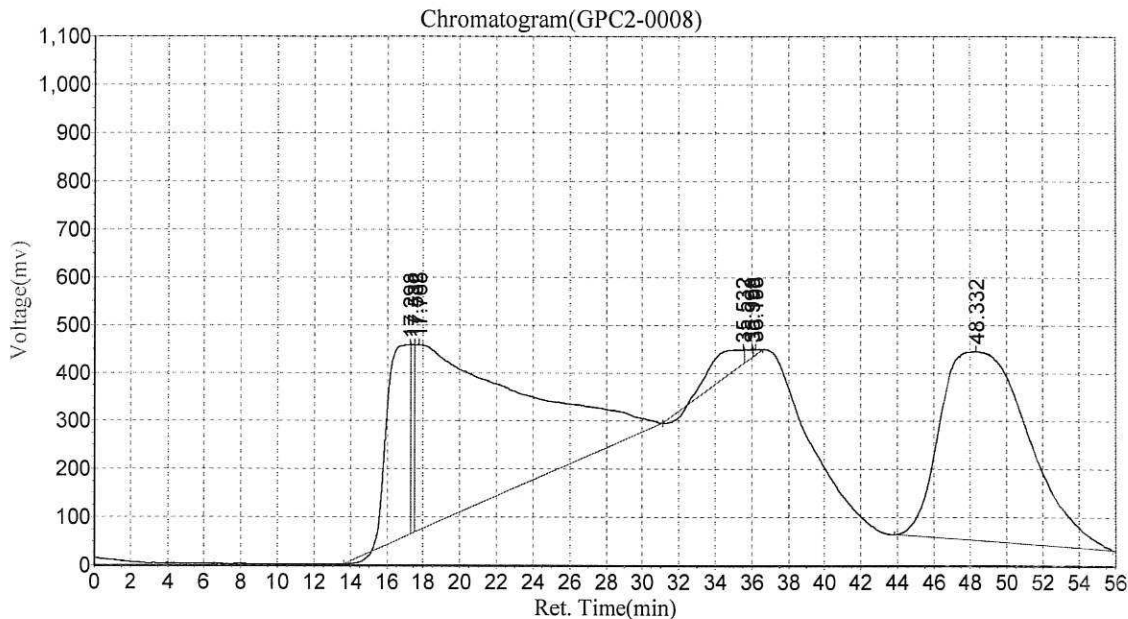
Ingredient Table

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLA0557 23A0179/180 PSDDA SVOC**

Date:2023-02-02,2:28:16 AM  
 Data File:c:\n2000\data\gpc2\020123\GPC2-0008  
 Method File:E:\GPC2\_InHouse.mtd

Analyst: TWC  
 Date/Time:2023-02-02,2:28:17 AM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.298   | 394764.188  | 34725940.000  | 10.6931 |
| 2            |         | 17.532   | 390915.094  | 5486188.000   | 1.6894  |
| 3            |         | 17.765   | 386866.000  | 144761744.000 | 44.5763 |
| 4            |         | 35.532   | 29226.094   | 6166333.000   | 1.8988  |
| 5            |         | 35.998   | 17056.801   | 595887.250    | 0.1835  |
| 6            |         | 36.198   | 11788.531   | 246803.703    | 0.0760  |
| 7            |         | 48.332   | 392605.188  | 132767432.000 | 40.8829 |
| <b>Total</b> |         |          | 1623221.895 | 324750327.953 | 100.000 |

**Ingredient Table**

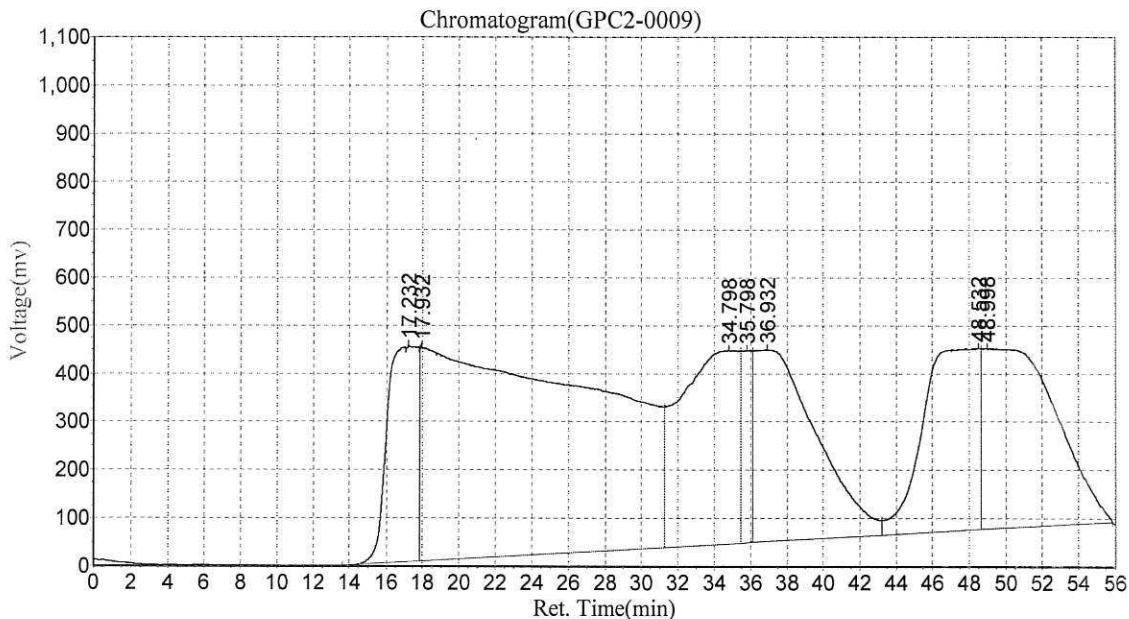
| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |



-06  
**BLA0557 23A0179/180 PSDDA SVOC**

Date:2023-02-02,3:26:05 AM  
 Data File:c:\n2000\data\gpc2\020123\GPC2-0009  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:°TWC  
 Date/Time:2023-02-02,3:26:05 AM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.232   | 450403.625  | 51738652.000  | 7.1377  |
| 2            |         | 17.932   | 447327.031  | 292330208.000 | 40.3287 |
| 3            |         | 34.798   | 400267.250  | 90002688.000  | 12.4164 |
| 4            |         | 35.798   | 398109.125  | 15901380.000  | 2.1937  |
| 5            |         | 36.932   | 397296.031  | 92655128.000  | 12.7823 |
| 6            |         | 48.532   | 373251.781  | 79463064.000  | 10.9624 |
| 7            |         | 48.998   | 372294.719  | 102777816.000 | 14.1788 |
| <b>Total</b> |         |          | 2838949.563 | 724868936.000 | 100.000 |

**Ingredient Table**

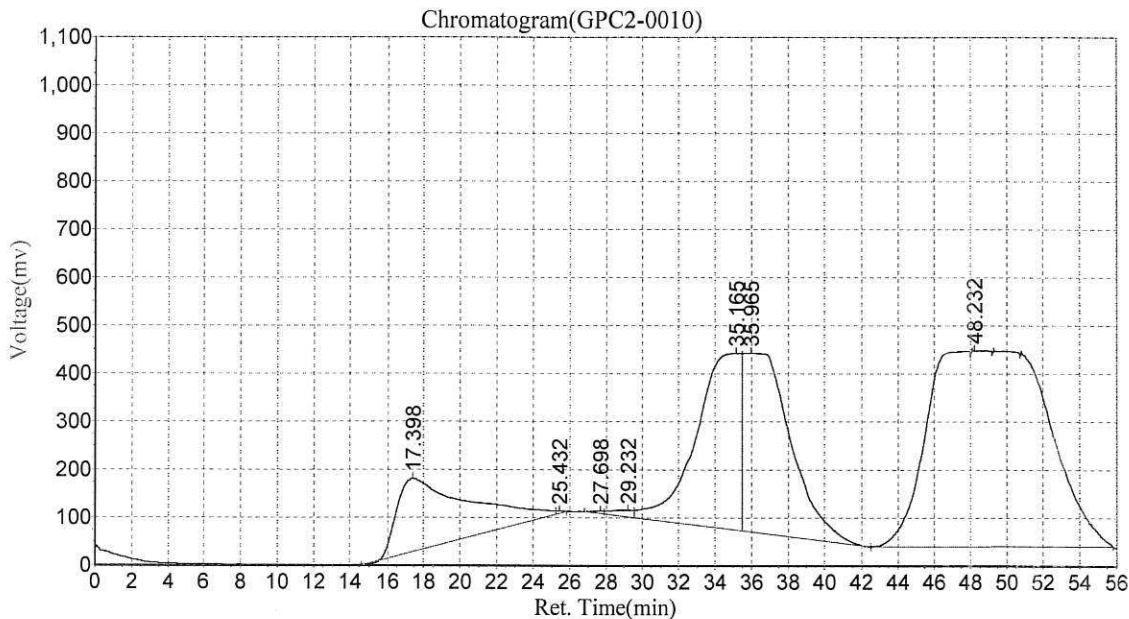
| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

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# BLA0557 23A0179/180 PSSDA SVOC

Date:2023-02-02,4:23:47 AM  
 Data File:c:\n2000\data\gpc2\020123\GPC2-0010  
 Method File:E:\GPC2\_InHouse.mtd

AnalystE°TWC  
 Date/Time2023-02-02,4:23:47 AM



### Results

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.398   | 153766.844  | 41058520.000  | 11.4248 |
| 2            |         | 25.432   | 5350.184    | 136414.469    | 0.0380  |
| 3            |         | 27.698   | 6940.471    | 316038.750    | 0.0879  |
| 4            |         | 29.232   | 16313.463   | 1316549.250   | 0.3663  |
| 5            |         | 35.165   | 368832.906  | 62521160.000  | 17.3969 |
| 6            |         | 35.965   | 372915.000  | 66801880.000  | 18.5881 |
| 7            |         | 48.232   | 407597.500  | 187230000.000 | 52.0980 |
| <b>Total</b> |         |          | 1331716.368 | 359380562.469 | 100.000 |

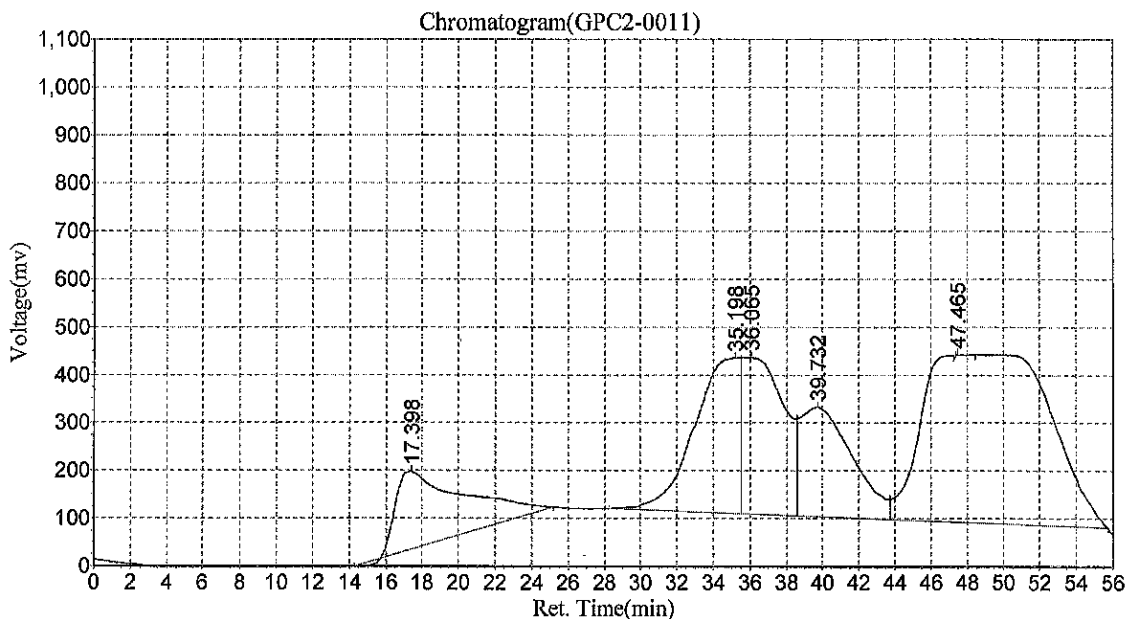
### Ingredient Table

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

# BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-02,5:21:31 AM  
 Data File:c:\n2000\data\gpc2\020123\GPC2-0011  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:°TWC  
 Date/Time:2023-02-02,5:21:31 AM



### Results

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.398   | 162791.500  | 41474092.000  | 11.3889 |
| 2            |         | 35.198   | 325684.688  | 55947628.000  | 15.3634 |
| 3            |         | 36.065   | 327804.563  | 51550360.000  | 14.1559 |
| 4            |         | 39.732   | 228050.469  | 45351900.000  | 12.4537 |
| 5            |         | 47.465   | 349187.156  | 169838784.000 | 46.6382 |
| <b>Total</b> |         |          | 1393518.375 | 364162764.000 | 100.000 |

### Ingredient Table

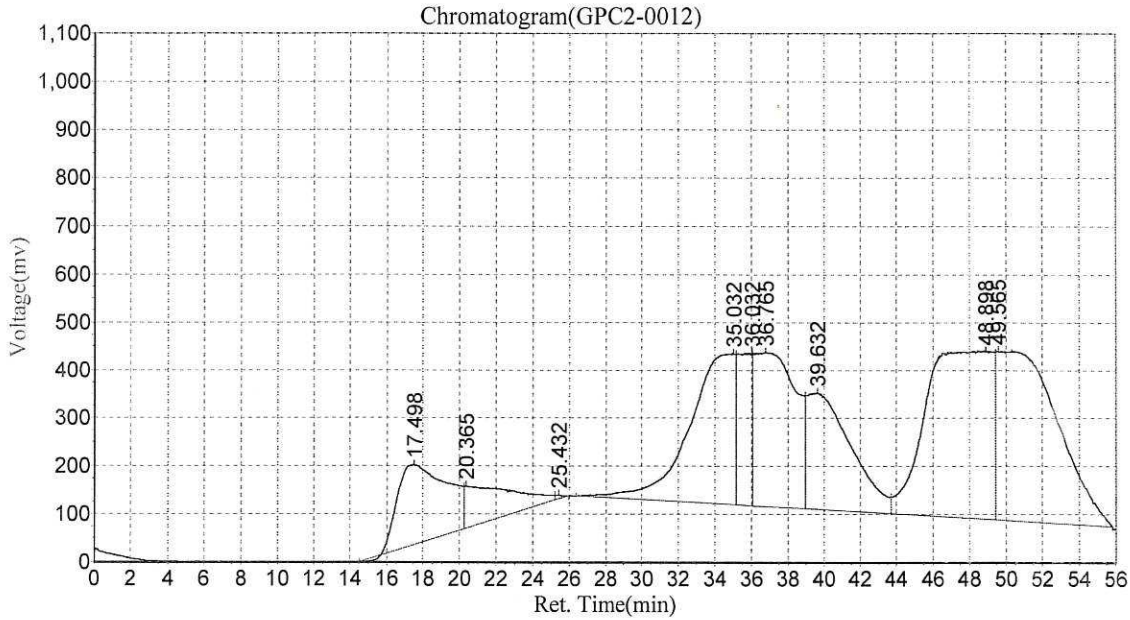
| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |



# BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-02,6:19:13 AM  
 Data File:c:\n2000\data\gpc2\020123\GPC2-0012  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:ETWC  
 Date/Time:2023-02-02,6:19:13 AM



### Results

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.498   | 166870.281  | 31058446.000  | 8.2658  |
| 2            |         | 20.365   | 87772.734   | 14621598.000  | 3.8913  |
| 3            |         | 25.432   | 7898.397    | 222408.281    | 0.0592  |
| 4            |         | 35.032   | 314156.531  | 53743896.000  | 14.3032 |
| 5            |         | 36.032   | 316786.875  | 17663520.000  | 4.7009  |
| 6            |         | 36.765   | 320083.250  | 49954544.000  | 13.2947 |
| 7            |         | 39.632   | 241475.250  | 40960268.000  | 10.9010 |
| 8            |         | 48.898   | 347924.188  | 87300016.000  | 23.2336 |
| 9            |         | 49.565   | 348836.063  | 80223520.000  | 21.3503 |
| <b>Total</b> |         |          | 2151803.569 | 375748216.281 | 100.000 |

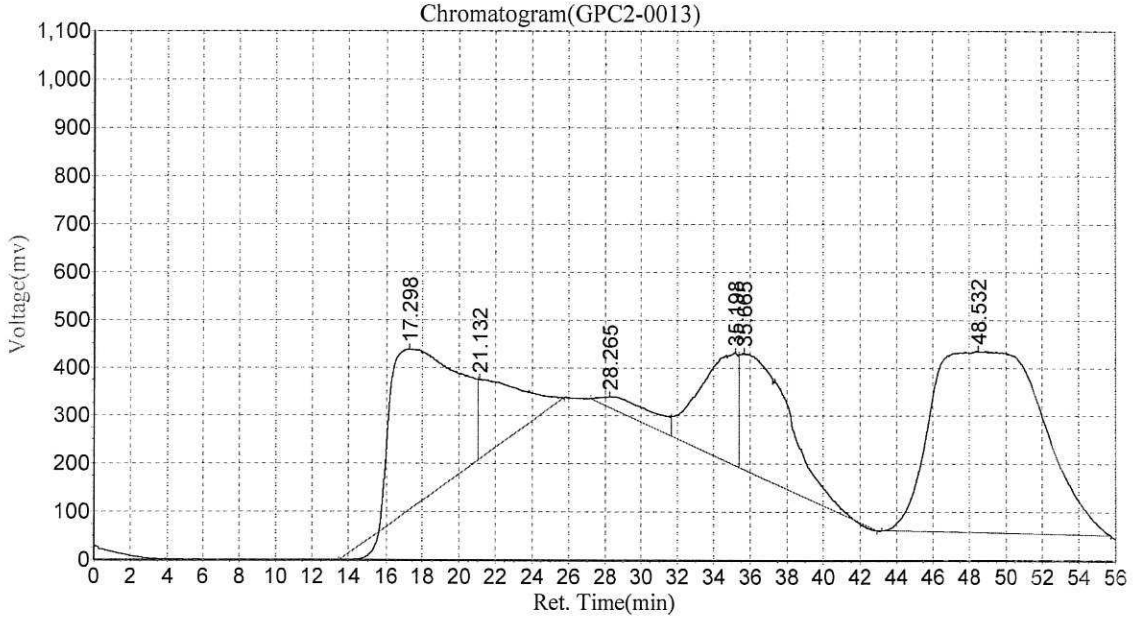
### Ingredient Table

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-02,7:16:56 AM  
 Data File:c:\n2000\data\gpc2\020123\GPC2-0013  
 Method File:E:\GPC2\_InHouse.mtd

AnalystE°TWC  
 Date/Time2023-02-02,7:16:56 AM



Results

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.298   | 335062.375  | 80361136.000  | 22.8522 |
| 2            |         | 21.132   | 167465.359  | 23712494.000  | 6.7431  |
| 3            |         | 28.265   | 22348.762   | 7077054.000   | 2.0125  |
| 4            |         | 35.198   | 234514.219  | 32397062.000  | 9.2127  |
| 5            |         | 35.665   | 241088.234  | 47126772.000  | 13.4014 |
| 6            |         | 48.532   | 376105.688  | 160982272.000 | 45.7782 |
| <b>Total</b> |         |          | 1376584.637 | 351656790.000 | 100.000 |

Ingredient Table

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

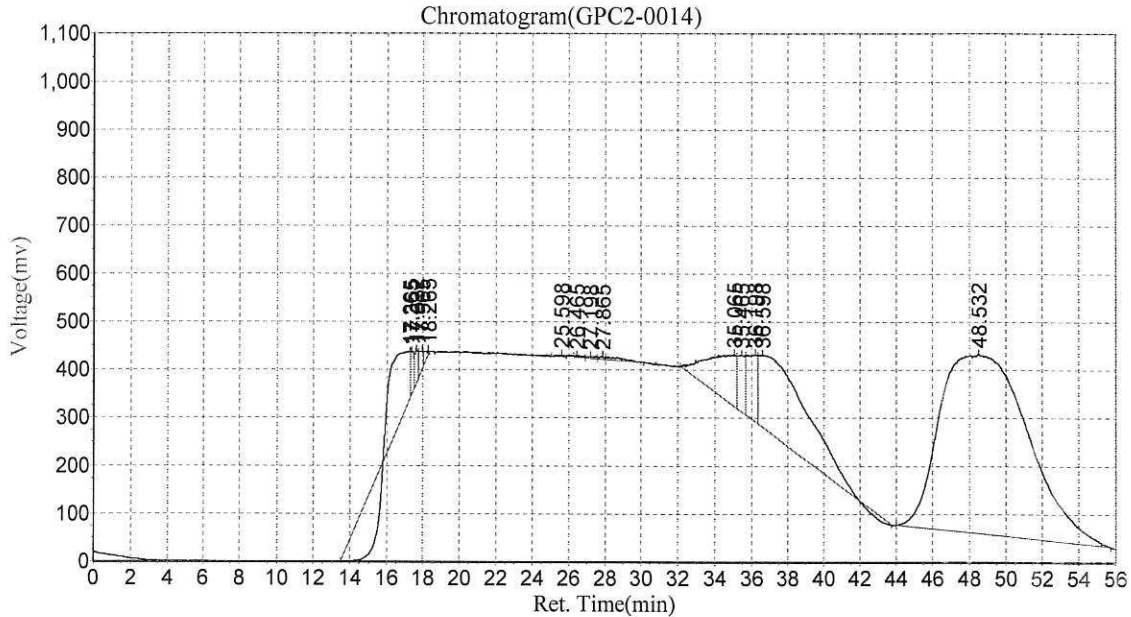


-49

# BLA0557 23A0179/180 PSSDA SVOC

Date:2023-02-02,8:14:37 AM  
 Data File:c:\n2000\data\gpc2\020123\GPC2-0014  
 Method File:E:\GPC2\_InHouse.mtd

Analyst: TWC  
 Date/Time: 2023-02-02,8:14:37 AM



### Results

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.265   | 98236.258   | 478644.563    | 0.2666  |
| 2            |         | 17.365   | 89676.055   | 1015911.438   | 0.5658  |
| 3            |         | 17.632   | 70010.508   | 929177.875    | 0.5175  |
| 4            |         | 17.965   | 36408.824   | 782346.625    | 0.4357  |
| 5            |         | 18.265   | 10103.207   | 302103.688    | 0.1682  |
| 6            |         | 25.598   | 3855.681    | 133629.844    | 0.0744  |
| 7            |         | 26.465   | 4995.021    | 183030.625    | 0.1019  |
| 8            |         | 27.198   | 4966.617    | 170396.969    | 0.0949  |
| 9            |         | 27.865   | 6354.341    | 486171.313    | 0.2708  |
| 10           |         | 35.065   | 106797.766  | 10582330.000  | 5.8936  |
| 11           |         | 35.465   | 117387.008  | 3239944.500   | 1.8044  |
| 12           |         | 36.198   | 138810.953  | 5296150.500   | 2.9496  |
| 13           |         | 36.598   | 150130.188  | 30853446.000  | 17.1831 |
| 14           |         | 48.532   | 370140.188  | 125103896.000 | 69.6736 |
| <b>Total</b> |         |          | 1207872.614 | 179557179.938 | 100.000 |

### Ingredient Table

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  |              |          |            |           |           |          |
| 3  |              |          |            |           |           |          |



**GPC #2**

---

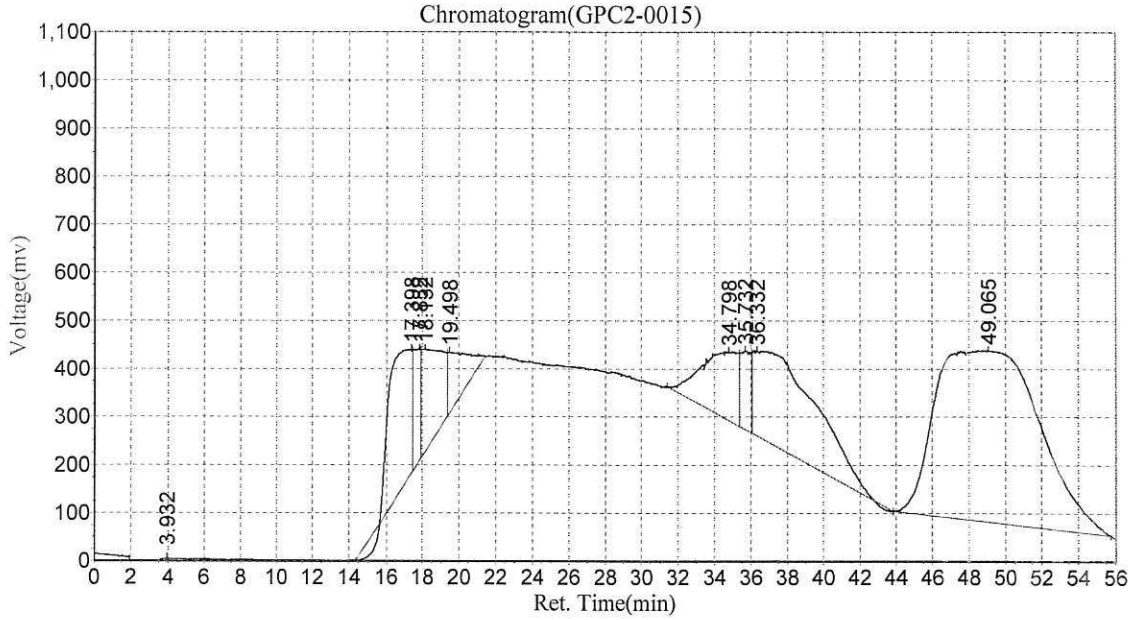
|   |             |        |       |           |           |        |
|---|-------------|--------|-------|-----------|-----------|--------|
| 4 | Dump Pest   | 46.000 | 0.010 | 0.00E+000 | 0.00E+000 | 0.0000 |
|   | Dump BAN    | 48.000 | 0.010 | 0.00E+000 | 0.00E+000 | 0.0000 |
|   | Collect BAN | 24.000 | 0.010 | 0.00E+000 | 0.00E+000 | 0.0000 |

-1φ

# BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-02,9:12:25 AM  
 Data File:c:\n2000\data\gpc2\020123\GPC2-0015  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:ETWC  
 Date/Time:2023-02-02,9:12:25 AM



### Results

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 3.932    | 9454.935    | 798293.625    | 0.2958  |
| 2            |         | 17.398   | 256877.609  | 23786382.000  | 8.8153  |
| 3            |         | 17.832   | 233117.547  | 6238210.500   | 2.3119  |
| 4            |         | 18.132   | 213782.969  | 15931787.000  | 5.9044  |
| 5            |         | 19.498   | 125999.563  | 8396672.000   | 3.1118  |
| 6            |         | 34.798   | 142545.906  | 19782094.000  | 7.3313  |
| 7            |         | 35.732   | 164291.313  | 6446387.000   | 2.3890  |
| 8            |         | 36.332   | 175706.000  | 47498920.000  | 17.6032 |
| 9            |         | 49.065   | 353971.844  | 140951872.000 | 52.2372 |
| <b>Total</b> |         |          | 1675747.685 | 269830618.125 | 100.000 |

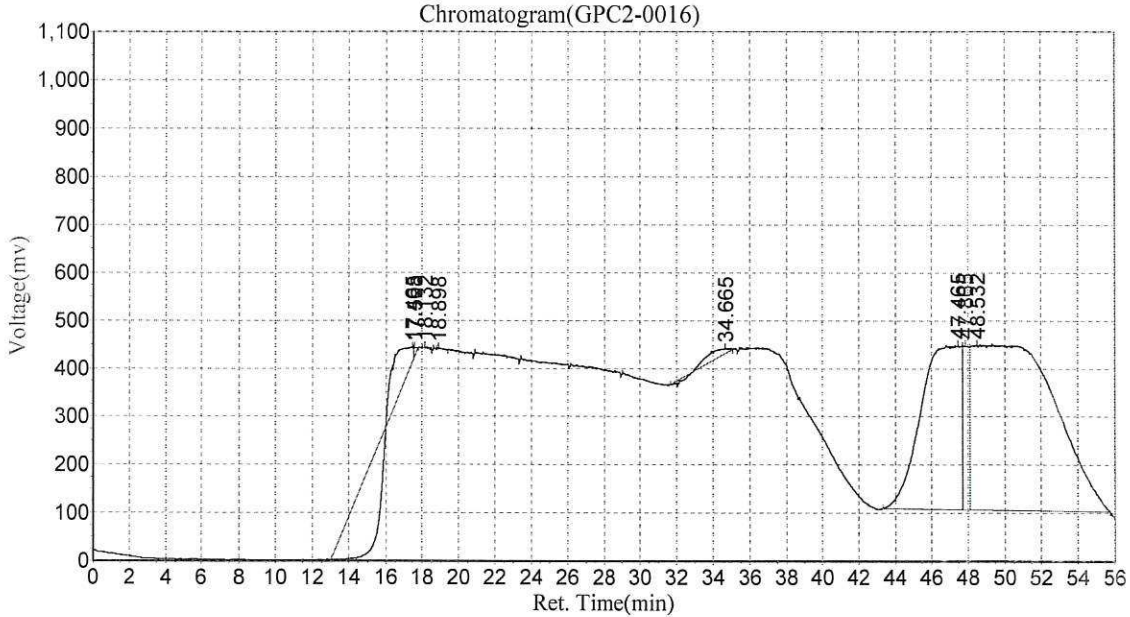
### Ingredient Table

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-02,10:10:07 AM  
 Data File:c:\n2000\data\gpc2\020123\GPC2-0016  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:ETWC  
 Date/Time:2023-02-02,10:10:08 AM



Results

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.465   | 31812.834   | 12003937.000  | 6.6457  |
| 2            |         | 17.598   | 19216.709   | 201612.906    | 0.1116  |
| 3            |         | 18.132   | 3225.400    | 104845.398    | 0.0580  |
| 4            |         | 18.898   | 7659.805    | 187495.406    | 0.1038  |
| 5            |         | 34.665   | 17810.363   | 2157449.750   | 1.1944  |
| 6            |         | 47.465   | 338798.344  | 51719980.000  | 28.6334 |
| 7            |         | 47.865   | 338828.938  | 8122670.000   | 4.4969  |
| 8            |         | 48.532   | 340482.969  | 106130144.000 | 58.7562 |
| <b>Total</b> |         |          | 1097835.361 | 180628134.461 | 100.000 |

Ingredient Table

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

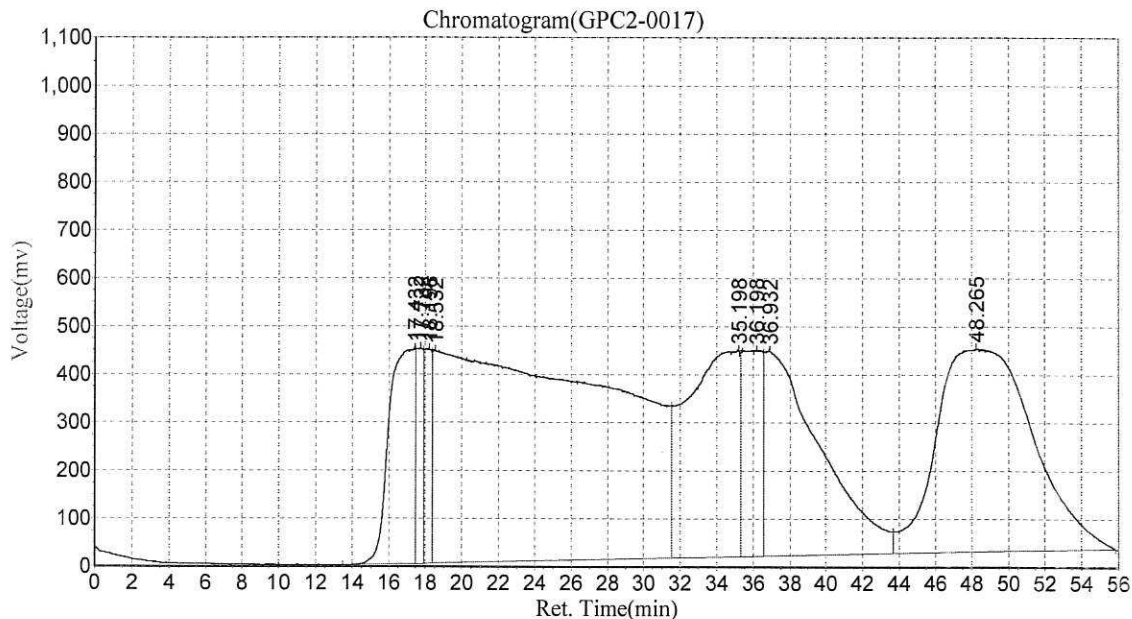


-12

# BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-02,11:07:55 AM  
 Data File:c:\n2000\data\gpc2\020123\GPC2-0017  
 Method File:E:\GPC2\_InHouse.mtd

Analyst: TWC  
 Date/Time:2023-02-02,11:07:56 AM



### Results

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.432   | 447532.406  | 42816288.000  | 5.8414  |
| 2            |         | 17.732   | 446946.250  | 11596057.000  | 1.5820  |
| 3            |         | 18.198   | 445812.781  | 13327998.000  | 1.8183  |
| 4            |         | 18.532   | 443653.156  | 299927680.000 | 40.9189 |
| 5            |         | 35.198   | 429191.844  | 86380656.000  | 11.7849 |
| 6            |         | 36.198   | 428214.938  | 32501676.000  | 4.4342  |
| 7            |         | 36.932   | 427034.781  | 90350072.000  | 12.3264 |
| 8            |         | 48.265   | 420737.469  | 156080144.000 | 21.2939 |
| <b>Total</b> |         |          | 3489123.625 | 732980571.000 | 100.000 |

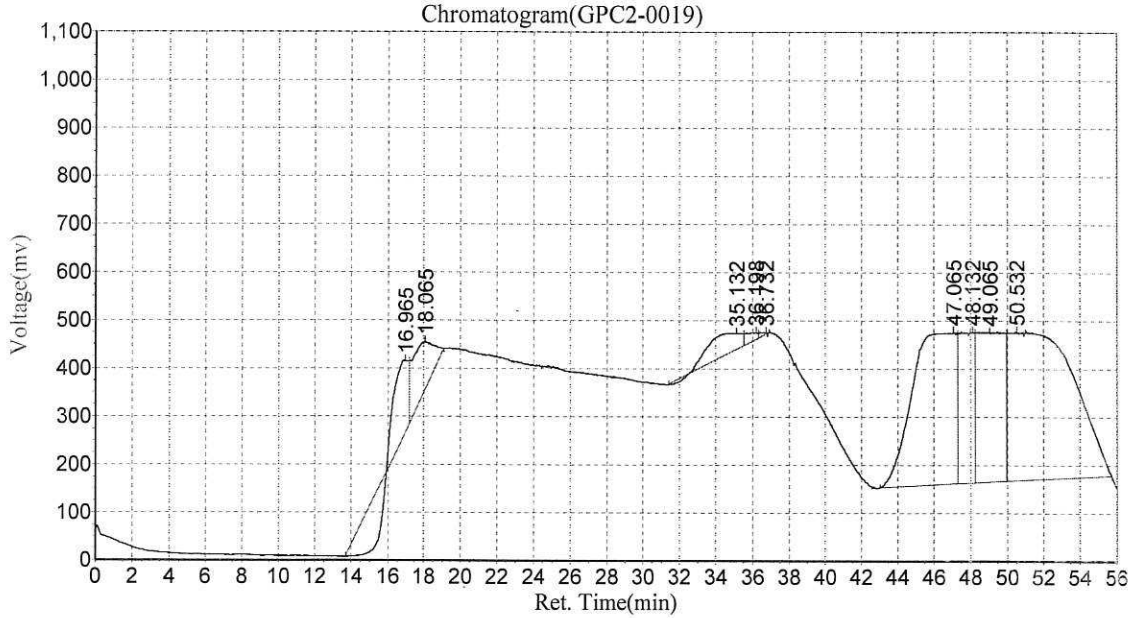
### Ingredient Table

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLA0557 23A0179/180 PSDDA SVOC**

Date:2023-02-02,1:03:20 PM  
 Data File:c:\n2000\data\gpc2\020123\GPC2-0019  
 Method File:E:\GPC2\_InHouse.mtd

AnalystE\*TCW  
 Date/Time2023-02-02,1:03:20 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 16.965   | 149276.047  | 827717.250    | 0.4286  |
| 2            |         | 18.065   | 99681.953   | 9320555.000   | 4.8258  |
| 3            |         | 35.132   | 34086.973   | 5683143.500   | 2.9425  |
| 4            |         | 36.198   | 14815.680   | 912139.125    | 0.4723  |
| 5            |         | 36.732   | 4452.533    | 209480.906    | 0.1085  |
| 6            |         | 47.065   | 310957.781  | 52600256.000  | 27.2342 |
| 7            |         | 48.132   | 309697.813  | 17354644.000  | 8.9855  |
| 8            |         | 49.065   | 307655.688  | 31929688.000  | 16.5318 |
| 9            |         | 50.532   | 304006.063  | 74303128.000  | 38.4710 |
| <b>Total</b> |         |          | 1534630.529 | 193140751.781 | 100.000 |

**Ingredient Table**

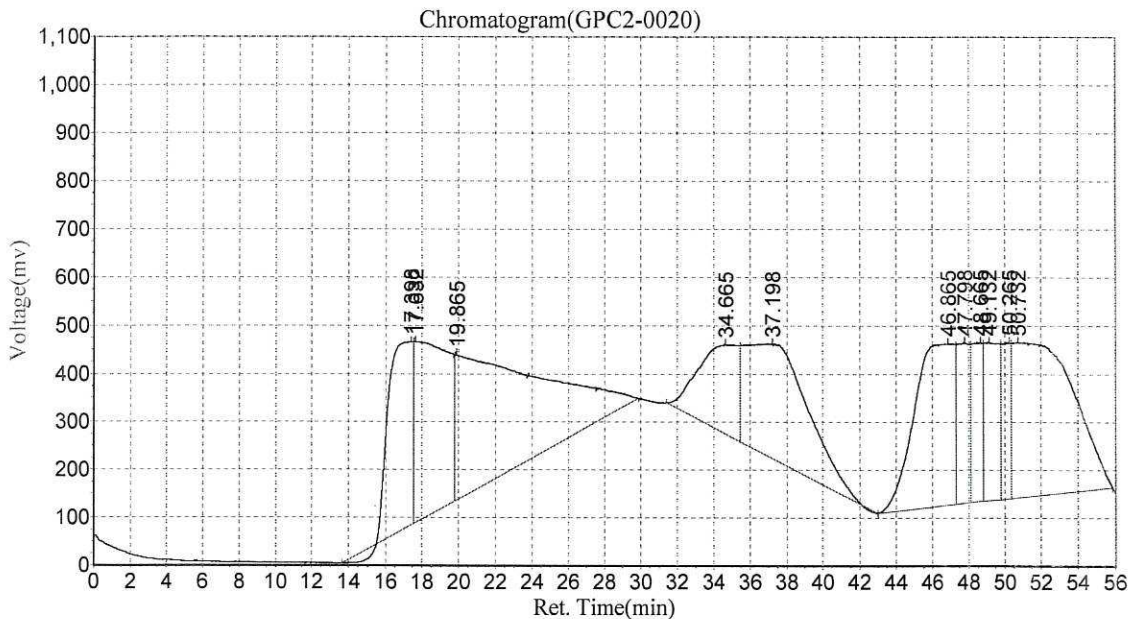
| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |



-023  
**BLA0557 23A0179/180 PSDDA SVOC**

Date:2023-02-02,2:01:02 PM  
 Data File:c:\n2000\data\gpc2\020123\GPC2-0020  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:°TWC  
 Date/Time:2023-02-02,2:01:02 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.398   | 382401.375  | 34521080.000  | 7.8314  |
| 2            |         | 17.632   | 377591.281  | 46234400.000  | 10.4887 |
| 3            |         | 19.865   | 306168.313  | 91034696.000  | 20.6520 |
| 4            |         | 34.665   | 185423.844  | 27809334.000  | 6.3088  |
| 5            |         | 37.198   | 237277.500  | 57015716.000  | 12.9345 |
| 6            |         | 46.865   | 335339.094  | 52056124.000  | 11.8094 |
| 7            |         | 47.798   | 333092.406  | 15928525.000  | 3.6135  |
| 8            |         | 48.665   | 329537.875  | 13183132.000  | 2.9907  |
| 9            |         | 49.132   | 328287.031  | 19561538.000  | 4.4377  |
| 10           |         | 50.265   | 323050.000  | 11601258.000  | 2.6318  |
| 11           |         | 50.732   | 322032.188  | 71858224.000  | 16.3016 |
| <b>Total</b> |         |          | 3460200.906 | 440804027.000 | 100.000 |

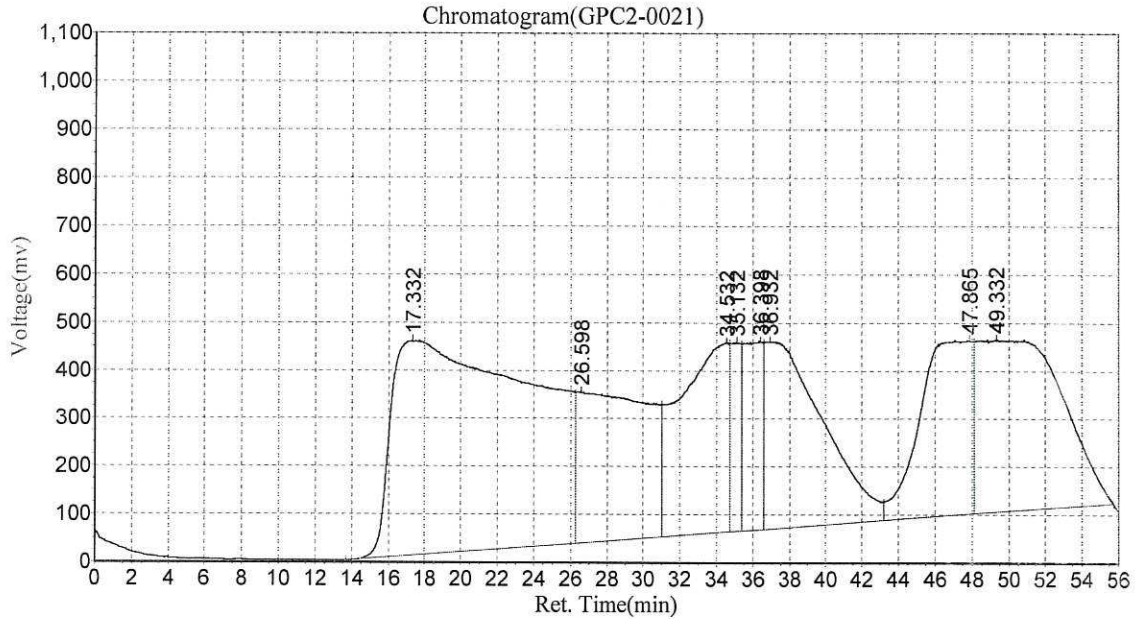
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-02 2:58:50 PM  
 Data File:c:\n2000\data\gpc2\020123\GPC2-0021  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:ETWC  
 Date/Time:2023-02-02,2:58:50 PM



Results

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.332   | 446623.813  | 235298912.000 | 33.3854 |
| 2            |         | 26.598   | 312726.063  | 83514448.000  | 11.8495 |
| 3            |         | 34.532   | 392720.094  | 73788392.000  | 10.4695 |
| 4            |         | 35.132   | 391637.531  | 15629124.000  | 2.2175  |
| 5            |         | 36.398   | 390001.594  | 27983028.000  | 3.9704  |
| 6            |         | 36.932   | 388308.875  | 85026256.000  | 12.0640 |
| 7            |         | 47.865   | 358496.094  | 70409624.000  | 9.9901  |
| 8            |         | 49.332   | 355084.625  | 113146200.000 | 16.0538 |
| <b>Total</b> |         |          | 3035598.688 | 704795984.000 | 100.000 |

Ingredient Table

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |



## PREPARATION BATCH SUMMARY

### EPA 8270E

Laboratory: Analytical Resources, LLC SDG: 23A0179  
Client: Anchor QEA, LLC Project: AOC5 MR Phase 1  
Batch: BLC0442 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

| SAMPLE NAME  | LAB SAMPLE ID | LAB FILE ID    | DATE PREPARED  | OBSERVATIONS                       |
|--------------|---------------|----------------|----------------|------------------------------------|
| LDW23-SS1277 | 23A0179-01RE1 | NT1003222310.D | 03/17/23 11:16 | From BLA0557 by CTO on 16-Mar-2023 |
| LDW23-SS1271 | 23A0179-02RE1 | NT1003222311.D | 03/17/23 11:16 | From BLA0557 by CTO on 16-Mar-2023 |
| LDW23-SS1266 | 23A0179-03RE1 | NT1003222312.D | 03/17/23 11:16 | From BLA0557 by CTO on 16-Mar-2023 |
| LDW23-SS1248 | 23A0179-04RE1 | NT1003222313.D | 03/17/23 11:16 | From BLA0557 by CTO on 16-Mar-2023 |
| LDW23-SS1239 | 23A0179-05RE1 | NT1003222314.D | 03/17/23 11:16 | From BLA0557 by CTO on 16-Mar-2023 |
| LDW23-SS1213 | 23A0179-06RE1 | NT1003222315.D | 03/17/23 11:16 | From BLA0557 by CTO on 16-Mar-2023 |
| LDW23-SS1200 | 23A0179-07RE1 | NT1003222316.D | 03/17/23 11:16 | From BLA0557 by CTO on 16-Mar-2023 |
| LDW23-SS1178 | 23A0179-08RE1 | NT1003222324.D | 03/17/23 11:16 | From BLA0557 by CTO on 16-Mar-2023 |
| LDW23-SS1171 | 23A0179-09RE1 | NT1003222325.D | 03/17/23 11:16 | From BLA0557 by CTO on 16-Mar-2023 |
| LDW23-SS1112 | 23A0179-10RE1 | NT1003222326.D | 03/17/23 11:16 | From BLA0557 by CTO on 16-Mar-2023 |
| LDW23-SS1039 | 23A0179-11RE1 | NT1003222327.D | 03/17/23 11:16 | From BLA0557 by CTO on 16-Mar-2023 |
| LDW23-SS1007 | 23A0179-12RE1 | NT1003222328.D | 03/17/23 11:16 | From BLA0557 by CTO on 16-Mar-2023 |
| Blank        | BLC0442-BLK1  | NT1003222306.D | 03/17/23 11:16 |                                    |
| Blank        | BLC0442-BLK3  | NT1003222321.D | 03/17/23 11:16 | full scan                          |
| LCS          | BLC0442-BS1   | NT1003222307.D | 03/17/23 11:16 |                                    |
| LCS Dup      | BLC0442-BSD1  | NT1003222308.D | 03/17/23 11:16 |                                    |
| LDW23-SS1200 | BLC0442-MS1   | NT1003222322.D | 03/17/23 11:16 |                                    |
| LDW23-SS1200 | BLC0442-MSD1  | NT1003222323.D | 03/17/23 11:16 |                                    |
| Reference    | BLC0442-SRM1  | NT1003222309.D | 03/17/23 11:16 |                                    |





**WO Comments**

23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)  
23A0180: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

**Analysis: 8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf)**

| Lab Number & Container | % Solids | Initial (g)          |        | (REQ) GPC C/U (1:1) 1 2 3 | Water Wash 1mL | Final Effective Vol (mL) | Vol (mL) to Lab | Extraction Comments                |
|------------------------|----------|----------------------|--------|---------------------------|----------------|--------------------------|-----------------|------------------------------------|
|                        |          | Target Dry: 10 (Wet) | Actual |                           |                |                          |                 |                                    |
| 23A0179-01RE1 A        | 59.0     | (16.96)              | 16.98  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-02RE1 A        | 66.2     | (15.10)              | 15.11  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-03RE1 A        | 58.6     | (17.07)              | 17.14  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-04RE1 A        | 53.7     | (18.61)              | 18.63  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-05RE1 A        | 67.4     | (14.84)              | 14.88  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-06RE1 A        | 54.0     | (18.53)              | 18.61  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-07RE1 A        | 74.6     | (13.41)              | 13.46  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-08RE1 A        | 61.4     | (16.30)              | 16.39  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-09RE1 A        | 53.0     | (18.86)              | 18.88  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-10RE1 A        | 49.3     | (20.30)              | 20.35  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-11RE1 A        | 49.6     | (20.15)              | 20.18  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-12RE1 A        | 49.4     | (20.26)              | 20.27  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0180-01RE1 A        | 51.4     | (19.47)              | 19.47  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0180-02RE1 A        | 53.0     | (18.86)              | 18.93  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0180-03RE1 A        | 54.3     | (18.41)              | 18.41  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0180-04RE1 A        | 56.1     | (17.83)              | 17.88  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |

**Batch QC**

| Lab Number   | % Solids | Initial (g)          |        | (REQ) GPC C/U (1:1) 1 2 3 | Water Wash 1mL | Final Effective Vol (mL) | Vol (mL) to Lab | Extraction Comments                      |
|--------------|----------|----------------------|--------|---------------------------|----------------|--------------------------|-----------------|--|
|              |          | Target Dry: 10 (Wet) | Actual |                           |                |                          |                 |  |
| BLC0442-BLK1 | 100.0    | (10.00)              | 10.00  | (1:1)                     | 1mL            | 1                        | 0.5             | Use 5g Neutral Sodium Sulfate for Blanks |
| BLC0442-BS1  | 100.0    | (10.00)              | 10.00  | (1:1)                     | 1mL            | 1                        | 0.5             | Use 5g Neutral Sodium Sulfate for Blanks |



Batch: BLC0442

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:AOC4 List)

**WO Comments**  
 23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E>  
 <H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)  
 23A0180: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E>  
 <H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

|              |       |                           |              |       |     |   |     |  |
|--------------|-------|---------------------------|--------------|-------|-----|---|-----|--|
| BLC0442-BSD1 | 100.0 | (10.00)                   | <u>16.60</u> | (1:1) | 1mL | 1 | 0.5 | Use 5g Neutral Sodium Sulfate for Blanks |
| BLC0442-MS1  | 74.6  | (13.41)                   | <u>13.41</u> | (1:1) | 1mL | 1 | 0.5 | Use 23A0179-07RE1                        |
| BLC0442-MSD1 | 74.6  | (13.41)                   | <u>13.41</u> | (1:1) | 1mL | 1 | 0.5 | Use 23A0179-07RE1                        |
| BLC0442-SRM1 | 100.0 | <del>(10.00)</del> (1.00) | <u>1.00</u>  | (1:1) | 1mL | 1 | 0.5 | Use K003477                              |

+1g DI WATER

Client ID: 03/17/23 Date: 3/17/23 Preparation Reviewed By: GD Date: 3/21/23 Extraction Date and Time: 03/17/23 11:16





Batch: BLC0442

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:AOC4 List)

**WO Comments**  
23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)  
23A0180: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

| Prep Steps   | Reagents Used   | Surrogates & Spike Standards Used   |
|--|---|---|
| <b>Microwave</b><br>CT 2 3<br>3/17/23<br>Analyst/Date  | <b>Station/Reagent</b><br><b>Microwave</b><br>Analyst: <i>CT</i> Date: <i>3/17/23</i><br>Anhydrous Sodium Sulfate<br>1:1 Methylene Chloride/Acetone<br>Methylene Chloride<br>Pre-Deactivated Glass Wool | <b>Type</b><br><b>Surrogate</b><br>A L001153<br>Exp<br>Date: <i>8/1/24</i><br>100/150µg/mL<br><b>Full List Spike (Freezer)</b><br>7 L001812 (V)<br>Exp<br>Date: <i>8/4/24</i><br>100µg/mL<br><b>Base Spike</b><br>56 L001812 (V)<br>Exp<br>Date: <i>8/24/23</i><br>200µg/mL<br><b>Acid Spike</b><br>38 L001812 (V)<br>Exp<br>Date: <i>3/24/23</i><br>100/200µg/mL   |
| <b>Pre-GPC KD</b><br>100°C<br>Exchange to Hexane (add 10 mL to KD)<br>0 2 4 5 6<br>TWC 3/18/23<br>Analyst/Date | Standard ID<br>L002484<br>L002244<br>L002621<br>L0041923<br><b>Pre GPC KD</b><br>Analyst: <i>TWC</i> Date: <i>3/18/23</i><br>Pre-Deactivated Glass Wool   | Witness<br><i>CT</i><br><i>CT</i><br><i>CT</i><br><i>CT</i>   |
| <b>TurboVap Pre GPC</b><br>1 2 3 4 5<br>TWC 3/18/23<br>Analyst/Date  | Anhydrous Sodium Sulfate<br>Methylene Chloride<br>Hexane<br><b>GPC Filter Prep</b><br>Analyst: <i>TWC</i> Date: <i>3/18/23</i>  | <b>MANUALLY ENTER EXPIRATION DATES!</b><br>(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.<br><br>If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator in the Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s). |
| <b>Post GPC KD</b><br>80-85°C<br>1 0 2 4 5 6<br>LW/SA 3-21<br>Analyst/Date                                     | Methylene Chloride<br>GPC Filter<br><b>GPC</b><br>Analyst: <i>LW/SA</i> Date: <i>3/20/23</i>  |   |
| <b>TurboVap</b><br>1 2 3 4 5<br>CTO 3/21/23<br>Analyst/Date  | Methylene Chloride<br>GPC Calibration File<br><b>Post GPC KD</b><br>Analyst: <i>LW/SA</i> Date: <i>3-21-23</i>  |   |
| <b>Water Wash</b><br>CTO 3/21/23<br>Analyst/Date   | Methylene Chloride<br><b>Vialing</b><br>Analyst: <i>CTO</i> Date: <i>3/21/23</i><br>Methylene Chloride  |   |



Extraction Parameter: SWA Extraction Batch BLC0442 RE

Total Solids Batch: N/A Work Order(s): 23A0179, 180

| Screens: Soil/Sediment/Solid/Other:   | Analyst/Date       |
|---|--------------------|
| <input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)=   |                    |
| <input type="checkbox"/> Standing Water Decanted (Not shared)=  |                    |
| <input type="checkbox"/> Standing Water Homogenized (Shared samples)=   |                    |
| <input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=   |                    |
| <input type="checkbox"/> Rocks (%+size)?  |                    |
| <input type="checkbox"/> Organics (Leaves/sticks/grass)=  |                    |
| <input checked="" type="checkbox"/> Oily, obvious fuel/sulfur odors= <u>23A0179</u> <u>23A0180</u><br><u>01-12</u> <u>01-04</u>                         | <u>03/17/23</u>    |
| <input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=   |                    |
| <input checked="" type="checkbox"/> Previously Frozen = <u>23A0179</u> <u>23A0180</u><br><u>01-12</u> <u>=01-04</u>                                     | <u>03/17/23</u>    |
| <input type="checkbox"/> Other (Details)=   |                    |
| <b>Aqueous:</b>   |                    |
| <input checked="" type="checkbox"/> No Anomalies  |                    |
| <input type="checkbox"/> Turbid/Color=  |                    |
| <input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)   |                    |
| <input type="checkbox"/> Emulsions (%)=   |                    |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors=   |                    |
| <input type="checkbox"/> Other (Details)=   |                    |
| <input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=  |                    |
| <input checked="" type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).  | <u>TWC 3/18/23</u> |
| <u>179-04 = Sample over-pressurized while kd-ing causing Sygan to fly off and some of sample was lost (amount lost is unclear even for an estimate)</u> |                    |
| <input checked="" type="checkbox"/> Share Samples Y/N   | <u>03/17/23</u>    |
| <input checked="" type="checkbox"/> Multiple Jars Y/N   | <u>03/17/23</u>    |
| <input type="checkbox"/> Sample Pre-Screens indicate analyte activity=  |                    |
| <input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=  |                    |





Batch: BLC0442 **RE**

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:AOC4 List)

Matrix: Solid

Date Prepared: **03/17/23**

Balance ID: **B146462614**

Set Up By: **CTO 3/16/23**

From BLA0557 on 3/16/2023 by CTO

**WO Comments**

23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)  
23A0180: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

**The following standards may be missing from this batch!**

| Designator | Description         |
|------------|---------------------|
| 39         | Benzidine Spike     |
| QLS 14     | QLS Spike (Freezer) |



**Batch: BLC0442**

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:AOC4 List)

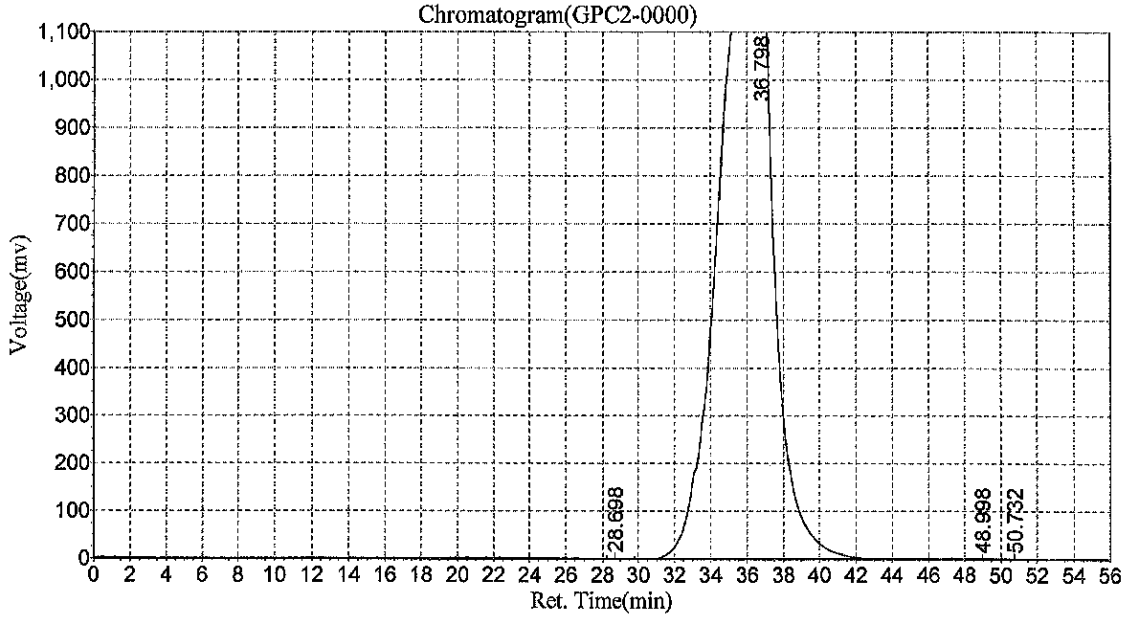
**WO Comments**  
 23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM 1009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>  
 <H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)  
 23A0180: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM 1009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>  
 <H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

| Prep Instructions  |  |
|--|--|
| <p><b>SPECIAL INSTRUCTIONS:</b></p> <ol style="list-style-type: none"> <li>1. Weigh into beakers-lightly dry with Sodium Sulfate.</li> <li>2. Transfer to microwave vessel.</li> <li>3. Add DCM ONLY to the vessels (until solvent is 3 inches above soil layer after homogenization).</li> <li>4. Add surr/spike.</li> <li>5. Microwave on appropriate power setting determined by # of samples.</li> <li>6. After microwave-re-homogenize while hot then let cool 10-15 min in Refrigerator 05. Re-homogenize while cool.</li> <li>7. Decant DCM into Erlenmeyer flask with a funnel containing pre-deactivated glasswool.</li> <li>8. Rinse with DCM</li> <li>9. Microwave a 2nd time using 1:1 DCM/ACE.</li> <li>10. Let cool and decant the solvent then empty the soil into the funnel and rinse with DCM.</li> <li>11. KD: Add 10 mL Hexane directly to extract in the KD.</li> <li>12. GPC REQUIRED 100°C water bath (CLP) KD to 5mL.</li> <li>13. Vialers to take 1:5 Split Pre- GPC.</li> <li>14. (After GPC): KD at 80°C.</li> <li>15. TurboVap to 1mL in DCM.</li> <li>16. WATER WASH REQUIRED:             <ol style="list-style-type: none"> <li>16a. Vial 1mL of all extracts in 2mL amber vials in DCM.</li> <li>16b. Add ~0.5mL DI water and vortex for ~5 seconds each.</li> <li>16c. Centrifuge extracts for 5 minutes at 1500-2000rpm.</li> <li>16d. Transfer and vial 0.5mL to new 2mL amber vials (Avoiding collecting water in syringe and cleaning syringe with Acetone and DCM between each vial).</li> </ol> </li> <li>17. Archive water washed vials and deliver new vials to GC Department for analysis.</li> </ol> <p>A. Need Total Solids Y / <input type="checkbox"/> N</p> <p>B. Archive/Freeze <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N</p> |  |

*BLK1*  
**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-20,2:01:58 PM  
Data File:c:\n2000\data\gpc2\032023\GPC2-0000  
Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
Date/Time:2023-03-20,2:01:58 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 28.698   | 2386.429    | 128857.344    | 0.0475  |
| 2            |         | 36.798   | 1249813.875 | 271069312.000 | 99.8549 |
| 3            |         | 48.998   | 1236.742    | 120339.891    | 0.0443  |
| 4            |         | 50.732   | 1735.484    | 144730.859    | 0.0533  |
| <b>Total</b> |         |          | 1255172.530 | 271463240.094 | 100.000 |

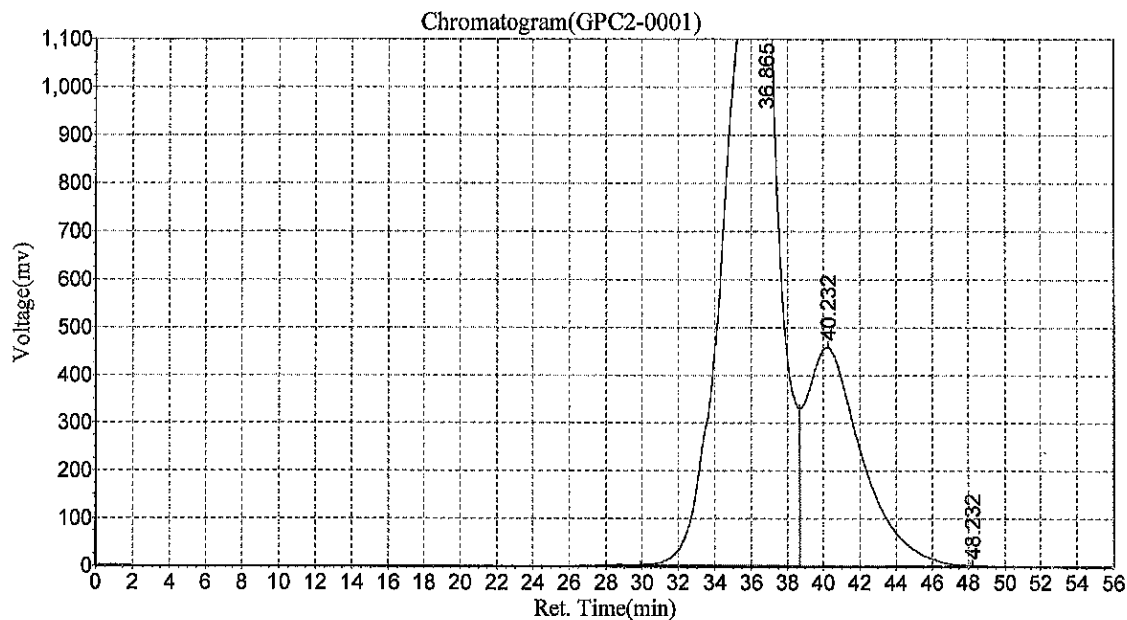
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

BS1  
**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-20,2:59:45 PM  
Data File:c:\n2000\data\gpc2\032023\GPC2-0001  
Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
Date/Time:2023-03-20,2:59:46 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 36.865   | 1247080.000 | 272841920.000 | 73.5257 |
| 2            |         | 40.232   | 458391.156  | 98079440.000  | 26.4306 |
| 3            |         | 48.232   | 2981.619    | 162174.125    | 0.0437  |
| <b>Total</b> |         |          | 1708452.775 | 371083534.125 | 100.000 |

**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

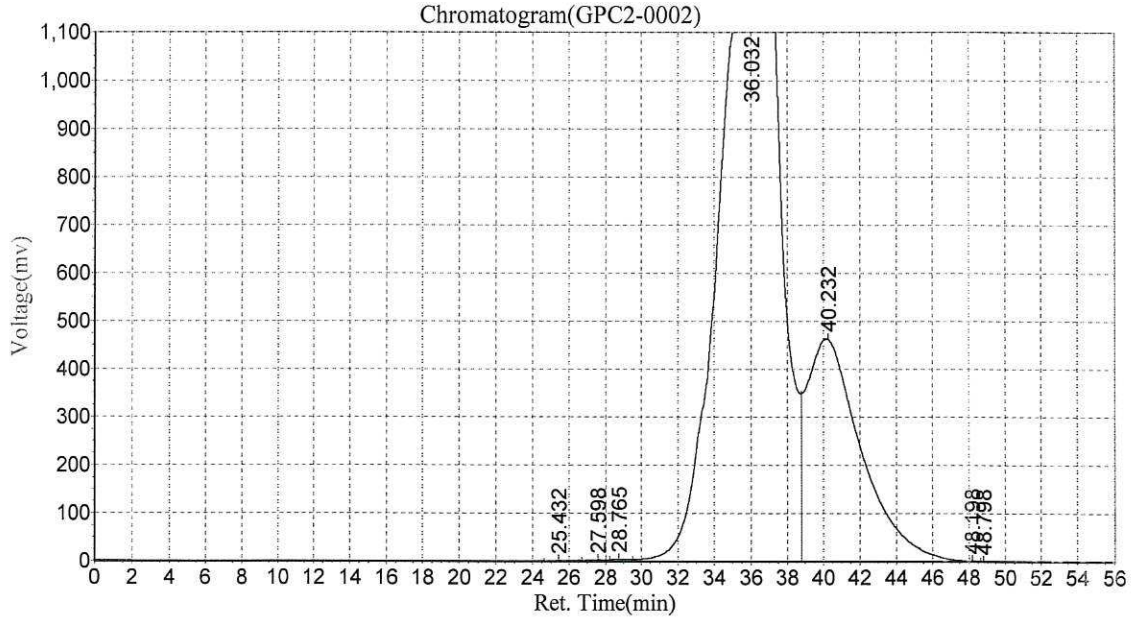


*BSP1*

# BLC0442/423/23A0179/180/23C0174

Date:2023-03-20,3:57:27 PM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0002  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-20,3:57:28 PM



### Results

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 25.432   | 2696.384    | 119099.922    | 0.0294  |
| 2            |         | 27.598   | 5152.632    | 317832.719    | 0.0785  |
| 3            |         | 28.765   | 6547.766    | 475432.563    | 0.1175  |
| 4            |         | 36.032   | 1248679.750 | 305185728.000 | 75.4120 |
| 5            |         | 40.232   | 465755.688  | 98314256.000  | 24.2936 |
| 6            |         | 48.198   | 4011.195    | 135911.688    | 0.0336  |
| 7            |         | 48.798   | 3280.464    | 143139.766    | 0.0354  |
| <b>Total</b> |         |          | 1736123.877 | 404691400.656 | 100.000 |

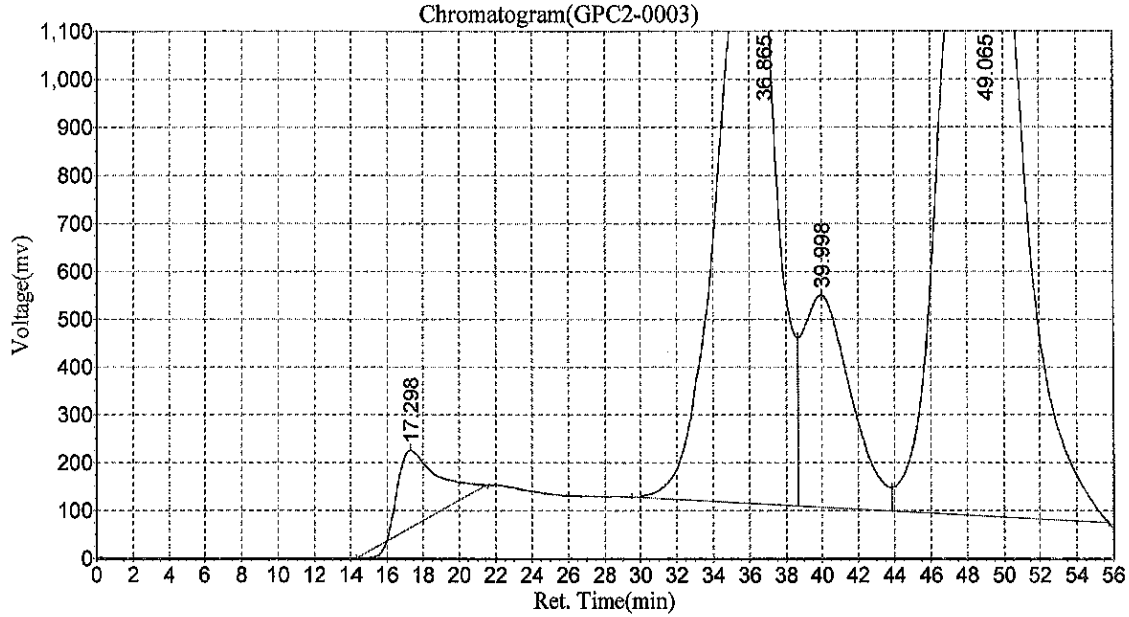
### Ingredient Table

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

*MJI*  
**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-20,4:55:10 PM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0003  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-20,4:55:10 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.298   | 163019.422  | 23469964.000  | 3.0047  |
| 2            |         | 36.865   | 1135126.250 | 272298016.000 | 34.8610 |
| 3            |         | 39.998   | 443069.094  | 81847288.000  | 10.4785 |
| 4            |         | 49.065   | 1161551.125 | 403480256.000 | 51.6557 |
| <b>Total</b> |         |          | 2902765.891 | 781095524.000 | 100.000 |

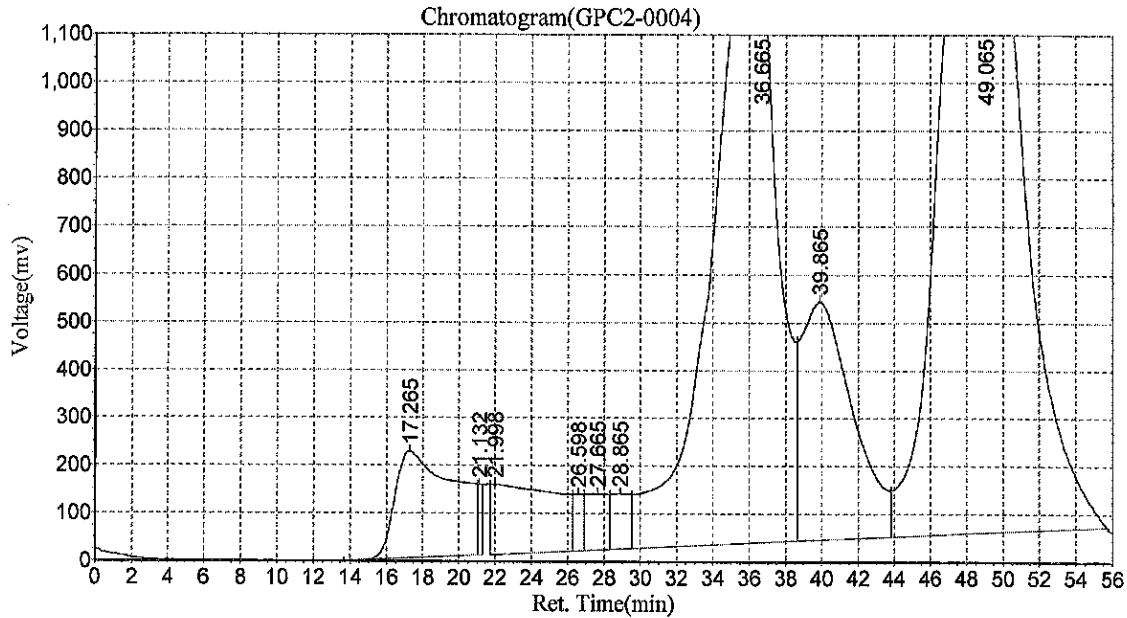
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

*MSD*  
**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-20,5:52:52 PM  
Data File:c:\n2000\data\gpc2\032023\GPC2-0004  
Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
Date/Time:2023-03-20,5:52:52 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.265   | 224383.953  | 51508632.000  | 5.4540  |
| 2            |         | 21.132   | 147925.859  | 2066188.875   | 0.2188  |
| 3            |         | 21.998   | 146094.359  | 35864208.000  | 3.7975  |
| 4            |         | 26.598   | 117965.445  | 4709386.500   | 0.4987  |
| 5            |         | 27.665   | 116690.898  | 9762018.000   | 1.0337  |
| 6            |         | 28.865   | 114923.656  | 8224336.000   | 0.8708  |
| 7            |         | 36.665   | 1205647.125 | 314043680.000 | 33.2528 |
| 8            |         | 39.865   | 496703.469  | 96731880.000  | 10.2426 |
| 9            |         | 49.065   | 1187798.625 | 421501184.000 | 44.6311 |
| <b>Total</b> |         |          | 3758133.391 | 944411513.375 | 100.000 |

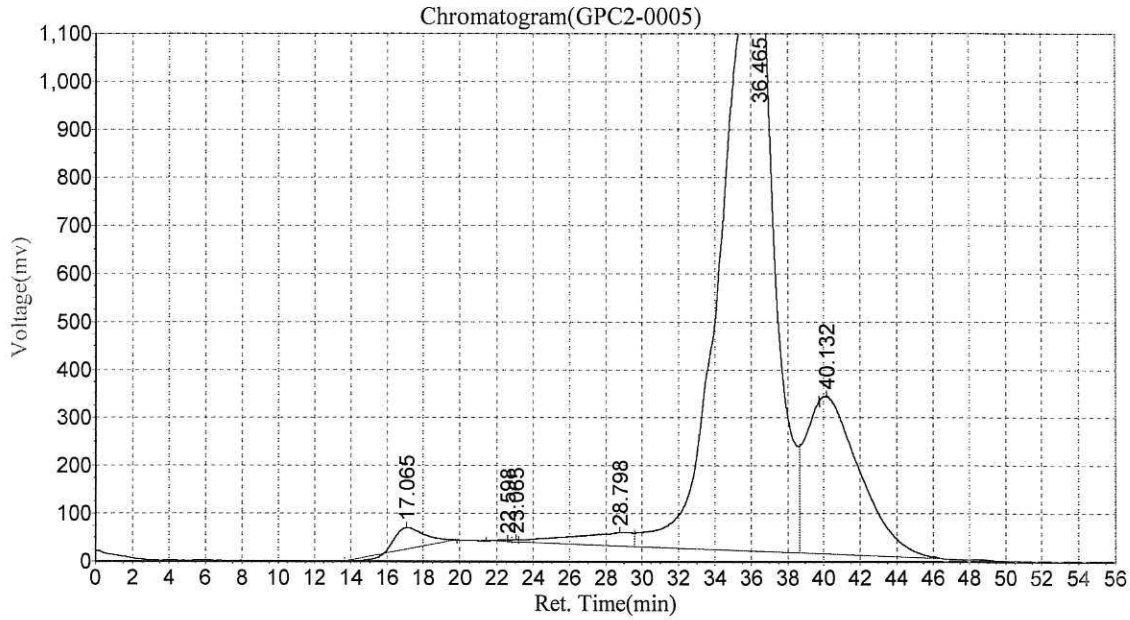
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

*SEM 1*  
**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-20,6:50:39 PM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0005  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-20,6:50:39 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.065   | 46099.746   | 4760543.000   | 1.4296  |
| 2            |         | 22.598   | 3937.567    | 208280.641    | 0.0625  |
| 3            |         | 23.065   | 4928.899    | 111123.672    | 0.0334  |
| 4            |         | 28.798   | 28887.830   | 6873306.000   | 2.0641  |
| 5            |         | 36.465   | 1200763.625 | 253297968.000 | 76.0653 |
| 6            |         | 40.132   | 329563.750  | 67749696.000  | 20.3452 |
| <b>Total</b> |         |          | 1614181.417 | 333000917.313 | 100.000 |

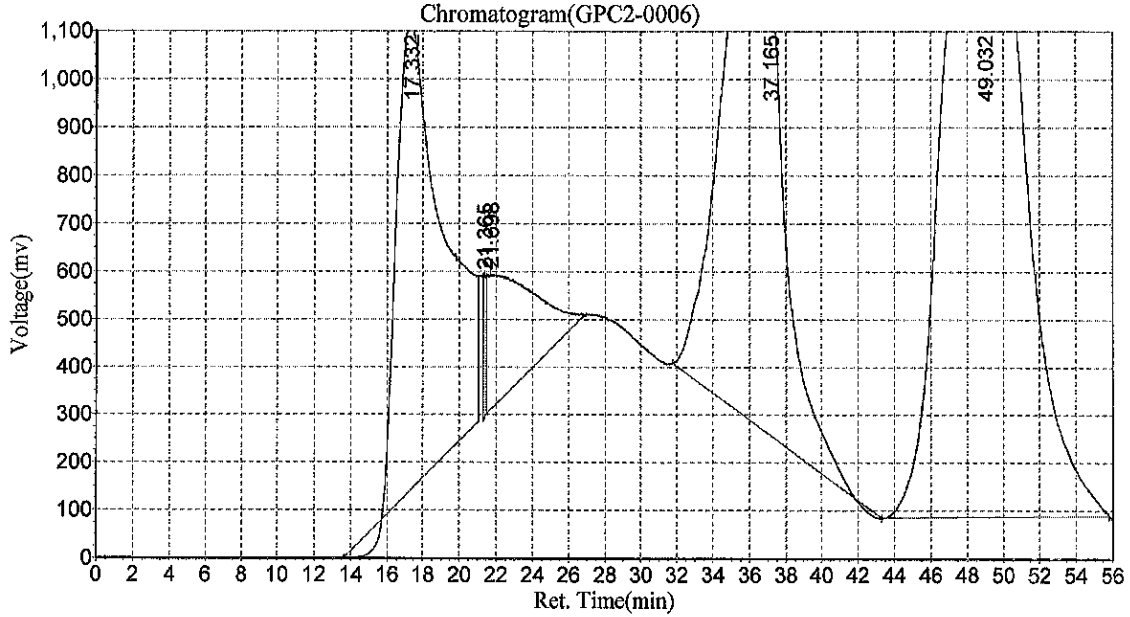
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-20,7:48:21 PM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0006  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:°NRB  
 Date/Time:2023-03-20,7:48:21 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.332   | 979148.750  | 170481424.000 | 19.5358 |
| 2            |         | 21.365   | 295223.969  | 3518400.750   | 0.4032  |
| 3            |         | 21.698   | 283869.500  | 47592488.000  | 5.4537  |
| 4            |         | 37.165   | 992281.188  | 246763088.000 | 28.2770 |
| 5            |         | 49.032   | 1163002.125 | 404307264.000 | 46.3303 |
| <b>Total</b> |         |          | 3713525.531 | 872662664.750 | 100.000 |

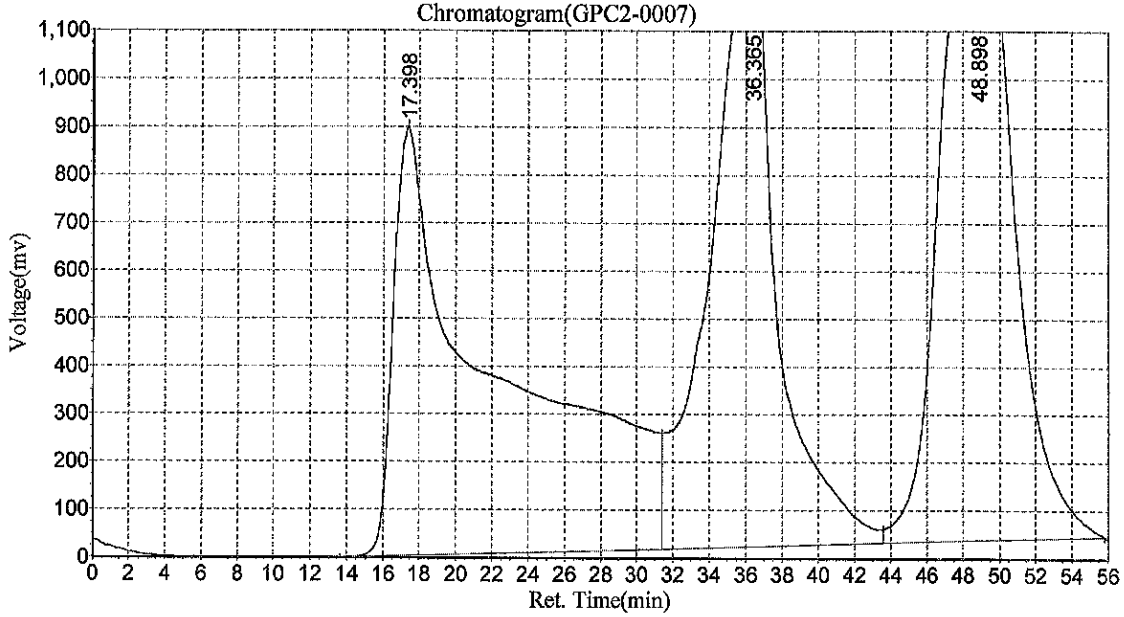
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-20,8:46:03 PM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0007  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-20,8:46:04 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area           | Conc    |
|--------------|---------|----------|-------------|----------------|---------|
| 1            |         | 17.398   | 898157.438  | 362966528.000  | 34.7954 |
| 2            |         | 36.365   | 1210978.125 | 317889504.000  | 30.4742 |
| 3            |         | 48.898   | 1210915.000 | 362287808.000  | 34.7304 |
| <b>Total</b> |         |          | 3320050.563 | 1043143840.000 | 100.000 |

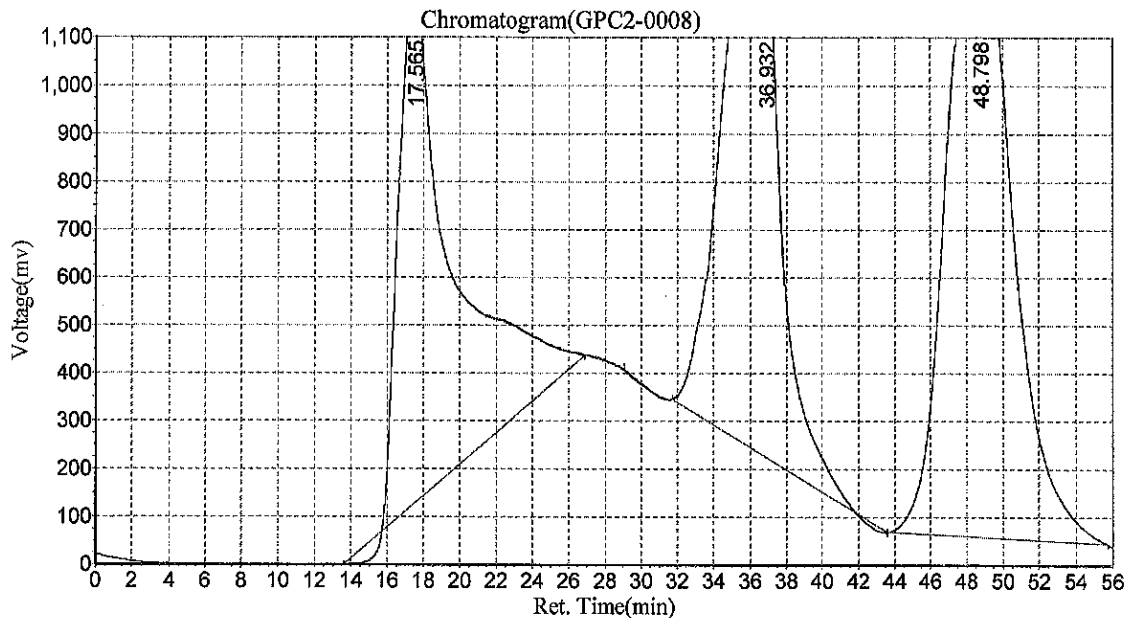
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLC0442/423/23A0179/180/23C0174** <sup>03</sup>

Date:2023-03-20,9:43:44 PM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0008  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-20,9:43:45 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.565   | 1083207.875 | 226174944.000 | 28.7724 |
| 2            |         | 36.932   | 1022889.500 | 243226224.000 | 30.9415 |
| 3            |         | 48.798   | 1181953.750 | 316682464.000 | 40.2861 |
| <b>Total</b> |         |          | 3288051.125 | 786083632.000 | 100.000 |

**Ingredient Table**

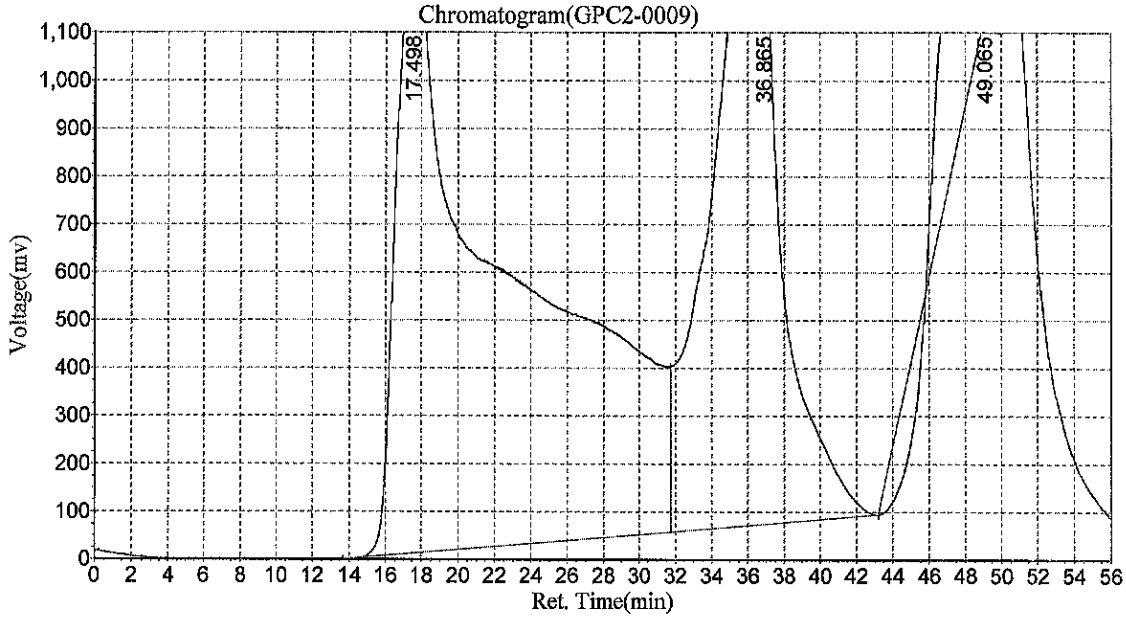
| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |



**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-20,10:41:32 PM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0009  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-20,10:41:33 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.498   | 1238220.375 | 561533952.000 | 59.0078 |
| 2            |         | 36.865   | 1173152.625 | 348418464.000 | 36.6129 |
| 3            |         | 49.065   | 118636.492  | 41674752.000  | 4.3793  |
| <b>Total</b> |         |          | 2530009.492 | 951627168.000 | 100.000 |

**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

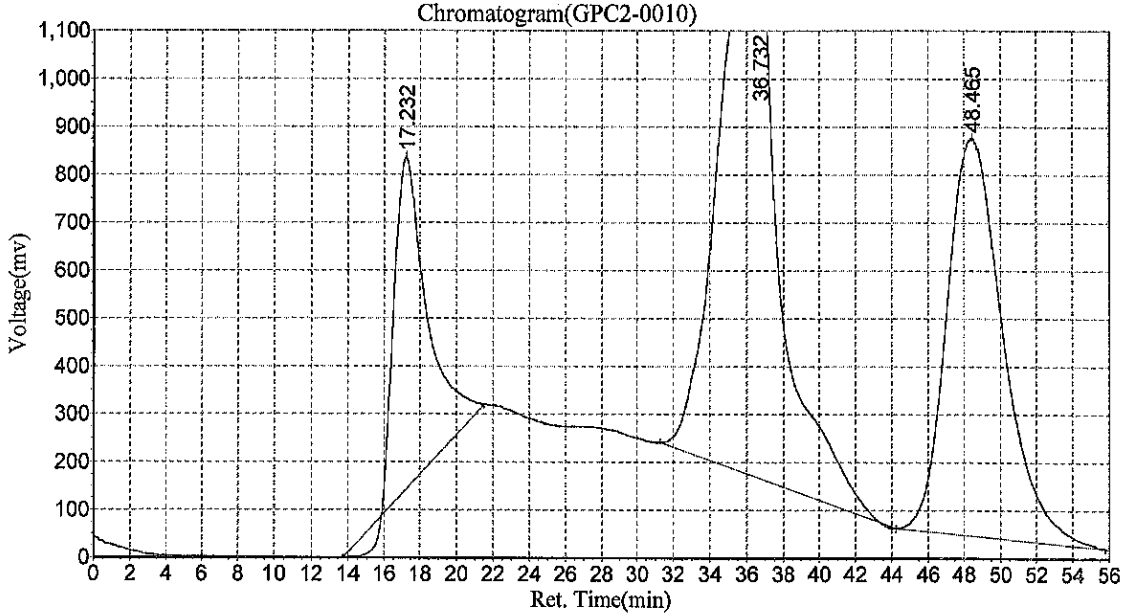


**BLC0442/423/23A0179/180/23C0174**

05

Date:2023-03-20,11:39:14 PM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0010  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:°NRB  
 Date/Time:2023-03-20,11:39:14 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.232   | 694219.438  | 84725520.000  | 16.1240 |
| 2            |         | 36.732   | 1080109.125 | 261837552.000 | 49.8300 |
| 3            |         | 48.465   | 827919.750  | 178898656.000 | 34.0460 |
| <b>Total</b> |         |          | 2602248.313 | 525461728.000 | 100.000 |

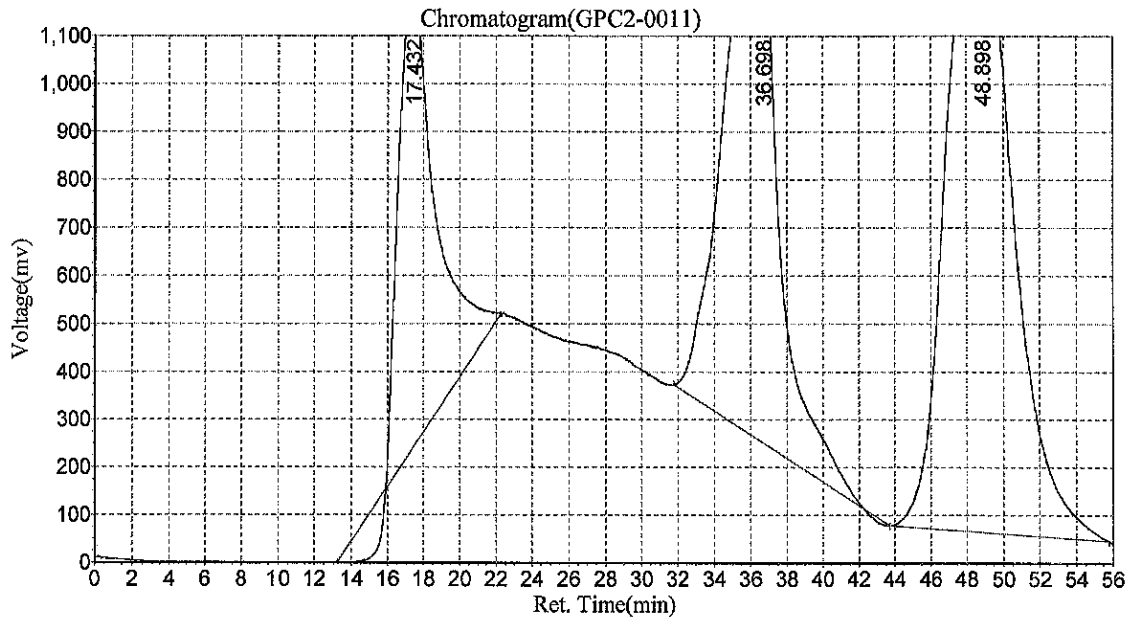
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-21,12:36:57 AM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0011  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-21,12:36:57 AM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.432   | 956759.750  | 130376792.000 | 19.2410 |
| 2            |         | 36.698   | 995375.375  | 227247792.000 | 33.5372 |
| 3            |         | 48.898   | 1177791.875 | 319975264.000 | 47.2219 |
| <b>Total</b> |         |          | 3129927.000 | 677599848.000 | 100.000 |

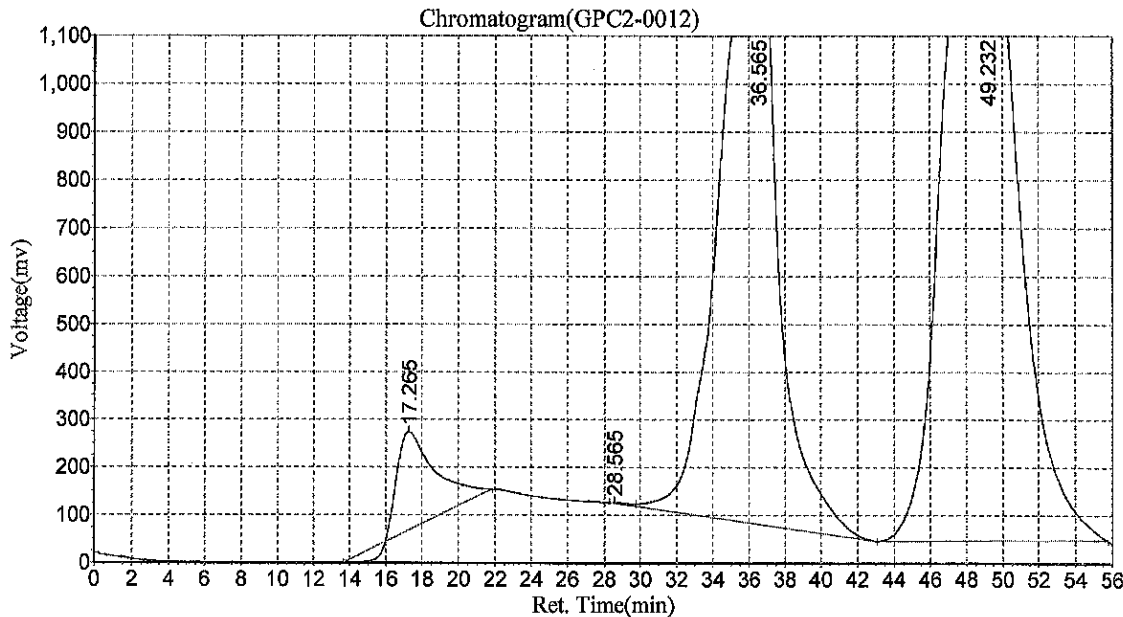
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-21,1:34:38 AM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0012  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-21,1:34:39 AM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.265   | 206298.266  | 28425322.000  | 4.1575  |
| 2            |         | 28.565   | 1922.153    | 276825.531    | 0.0405  |
| 3            |         | 36.565   | 1164358.750 | 279324448.000 | 40.8542 |
| 4            |         | 49.232   | 1203026.000 | 375683552.000 | 54.9478 |
| <b>Total</b> |         |          | 2575605.169 | 683710147.531 | 100.000 |

**Ingredient Table**

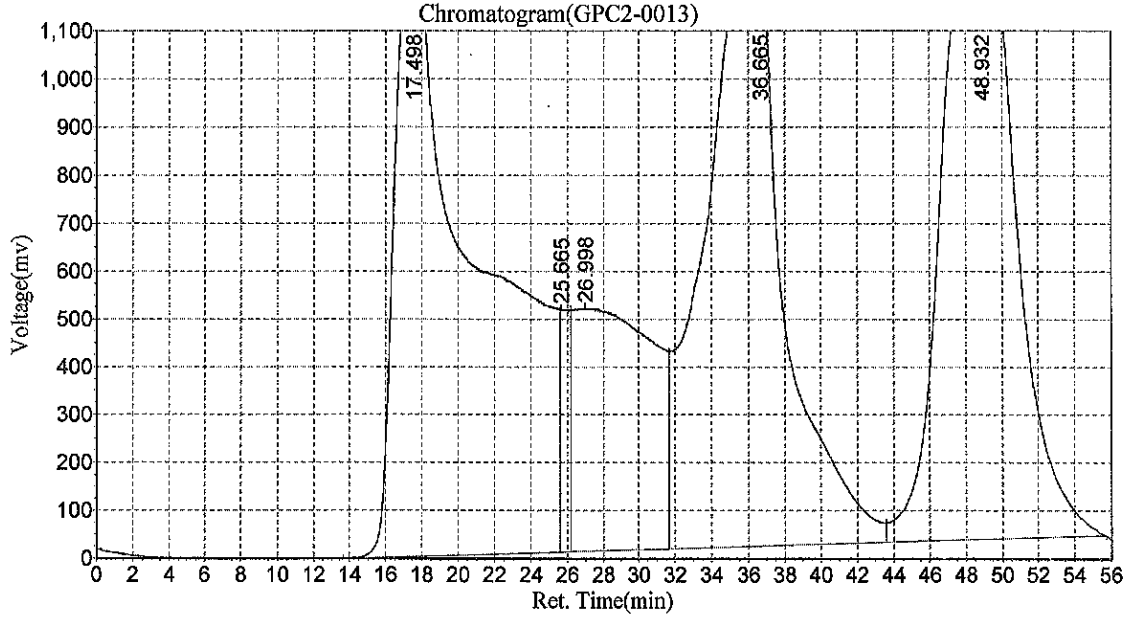
| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

# BLC0442/423/23A0179/180/23C0174

-08

Date:2023-03-21,2:32:26 AM  
Data File:c:\n2000\data\gpc2\032023\GPC2-0013  
Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
Date/Time:2023-03-21,2:32:27 AM



### Results

| Peak No.     | Peak ID | Ret Time | Height      | Area           | Conc    |
|--------------|---------|----------|-------------|----------------|---------|
| 1            |         | 17.498   | 1247212.625 | 412758112.000  | 31.1969 |
| 2            |         | 25.665   | 506934.438  | 18199000.000   | 1.3755  |
| 3            |         | 26.998   | 506449.750  | 155369360.000  | 11.7431 |
| 4            |         | 36.665   | 1219960.625 | 377302816.000  | 28.5172 |
| 5            |         | 48.932   | 1207576.125 | 359443488.000  | 27.1673 |
| <b>Total</b> |         |          | 4688133.563 | 1323072776.000 | 100.000 |

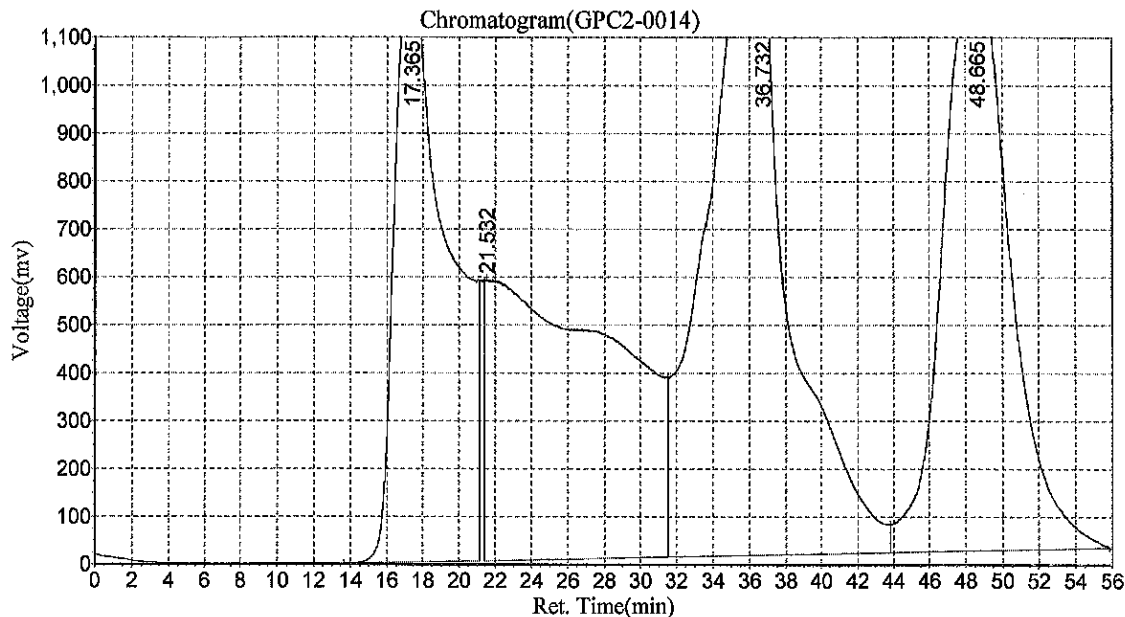
### Ingredient Table

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-21,3:30:08 AM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0014  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-21,3:30:08 AM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area           | Conc    |
|--------------|---------|----------|-------------|----------------|---------|
| 1            |         | 17.365   | 1245955.750 | 254981072.000  | 20.2470 |
| 2            |         | 21.532   | 585070.313  | 292012704.000  | 23.1876 |
| 3            |         | 36.732   | 1225911.125 | 407100576.000  | 32.3262 |
| 4            |         | 48.665   | 1177588.750 | 305256832.000  | 24.2392 |
| <b>Total</b> |         |          | 4234525.938 | 1259351184.000 | 100.000 |

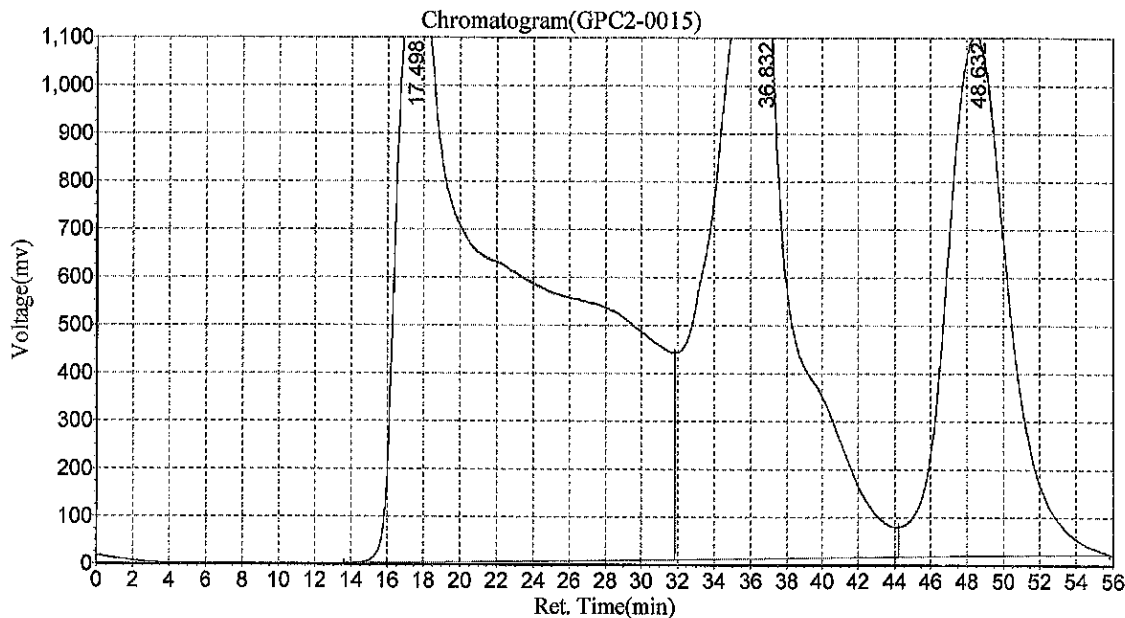
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLC0442/423/23A0179/180/23C0174** <sup>10</sup>

Date:2023-03-21,4:27:51 AM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0015  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-21,4:27:51 AM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area           | Conc    |
|--------------|---------|----------|-------------|----------------|---------|
| 1            |         | 17.498   | 1248121.500 | 624849280.000  | 48.2619 |
| 2            |         | 36.832   | 1233413.875 | 413760672.000  | 31.9579 |
| 3            |         | 48.632   | 1084263.875 | 256093952.000  | 19.7801 |
| <b>Total</b> |         |          | 3565799.250 | 1294703904.000 | 100.000 |

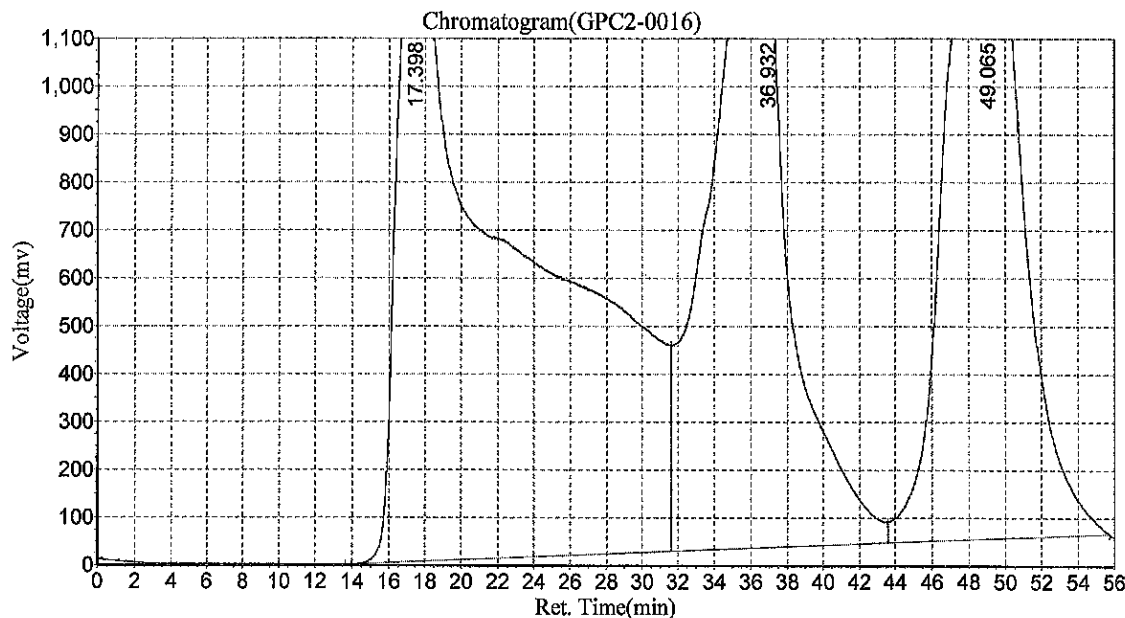
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLC0442/423/23A0179/180/23C0174 -11**

Date:2023-03-21,5:25:33 AM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0016  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-21,5:25:33 AM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area           | Conc    |
|--------------|---------|----------|-------------|----------------|---------|
| 1            |         | 17.398   | 1243660.000 | 647777728.000  | 45.1377 |
| 2            |         | 36.932   | 1208860.375 | 404613344.000  | 28.1938 |
| 3            |         | 49.065   | 1191889.500 | 382724800.000  | 26.6686 |
| <b>Total</b> |         |          | 3644409.875 | 1435115872.000 | 100.000 |

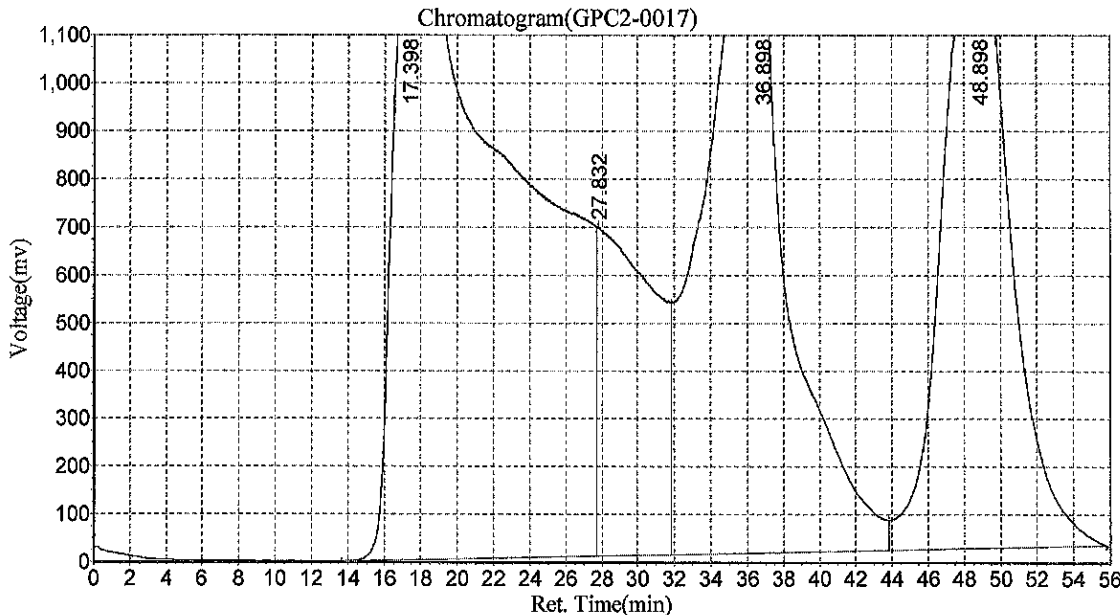
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-21,6:23:16 AM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0017  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-21,6:23:16 AM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area           | Conc    |
|--------------|---------|----------|-------------|----------------|---------|
| 1            |         | 17.398   | 1245895.500 | 639083648.000  | 41.4942 |
| 2            |         | 27.832   | 689824.063  | 148648768.000  | 9.6514  |
| 3            |         | 36.898   | 1226104.875 | 422137248.000  | 27.4084 |
| 4            |         | 48.898   | 1212363.625 | 330307360.000  | 21.4461 |
| <b>Total</b> |         |          | 4374188.063 | 1540177024.000 | 100.000 |

**Ingredient Table**

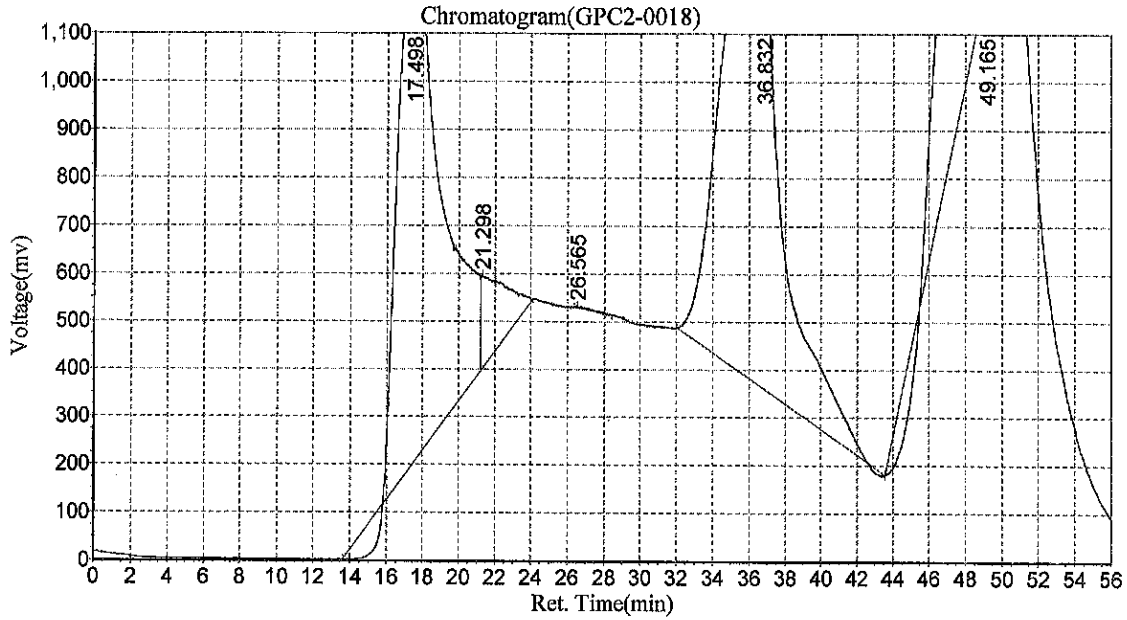
| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |



**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-21,7:20:57 AM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0018  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-21,7:20:57 AM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.498   | 1047066.625 | 174874240.000 | 37.7677 |
| 2            |         | 21.298   | 196352.656  | 17526248.000  | 3.7852  |
| 3            |         | 26.565   | 3524.936    | 189172.000    | 0.0409  |
| 4            |         | 36.832   | 887701.250  | 218651632.000 | 47.2224 |
| 5            |         | 49.165   | 49400.109   | 51784408.000  | 11.1839 |
| <b>Total</b> |         |          | 2184045.576 | 463025700.000 | 100.000 |

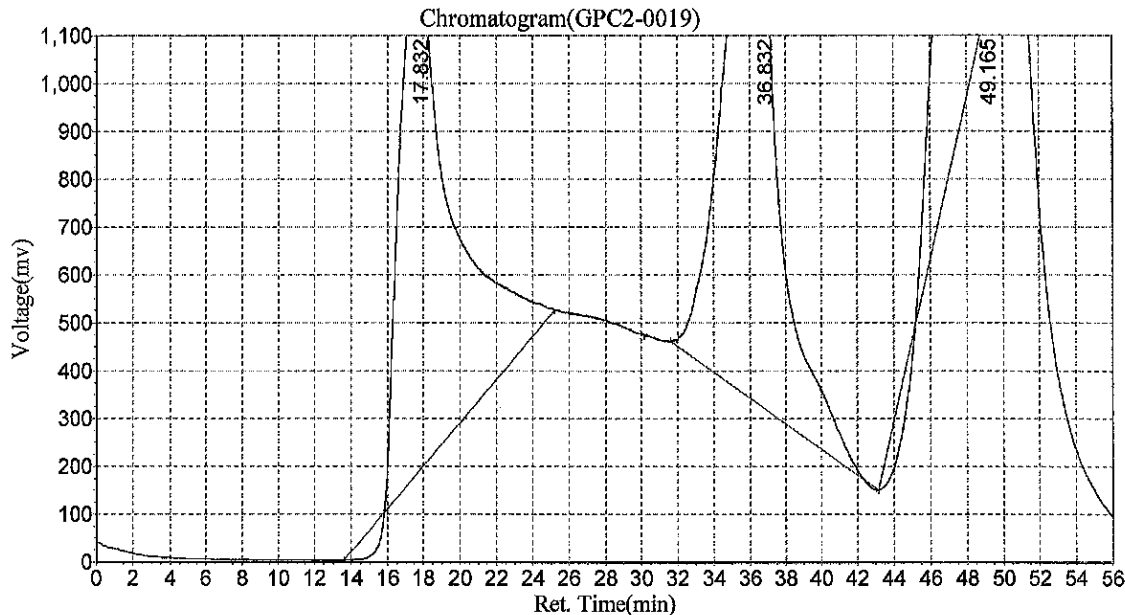
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

02  
**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-21,8:18:40 AM  
Data File:c:\n2000\data\gpc2\032023\GPC2-0019  
Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
Date/Time:2023-03-21,8:18:41 AM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.832   | 1057970.250 | 218716800.000 | 42.8052 |
| 2            |         | 36.832   | 926899.563  | 226352768.000 | 44.2996 |
| 3            |         | 49.165   | 90555.180   | 65889392.000  | 12.8952 |
| <b>Total</b> |         |          | 2075424.992 | 510958960.000 | 100.000 |

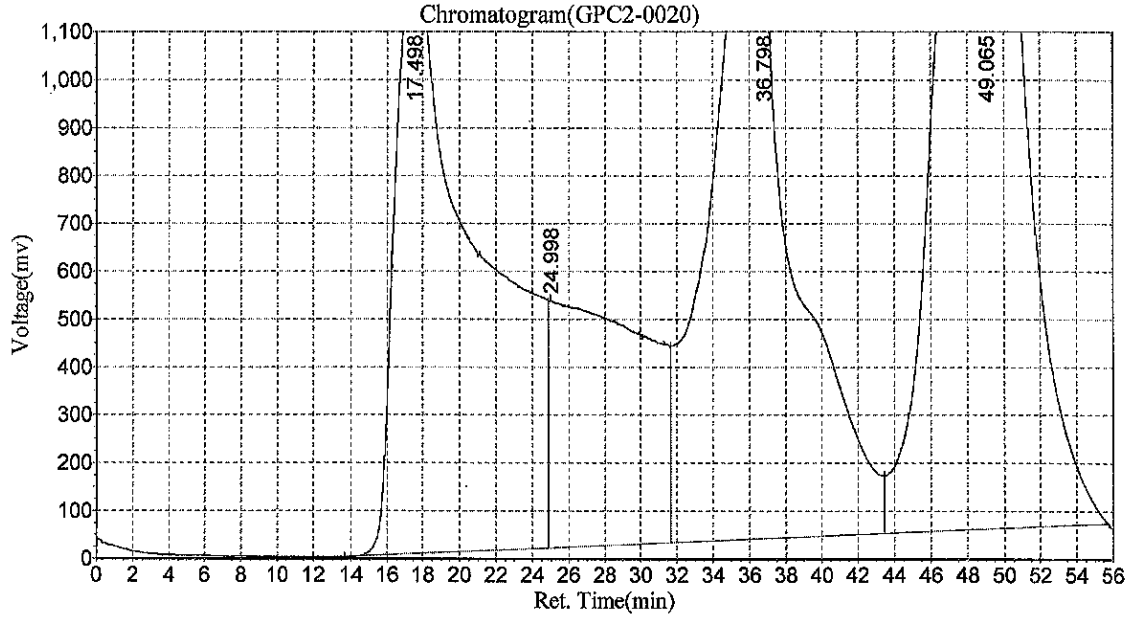
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

# BLC0442/423/23A0179/180/23C0174

Date:2023-03-21,9:16:22 AM  
Data File:c:\n2000\data\gpc2\032023\GPC2-0020  
Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
Date/Time:2023-03-21,9:16:23 AM



### Results

| Peak No.     | Peak ID | Ret Time | Height      | Area           | Conc    |
|--------------|---------|----------|-------------|----------------|---------|
| 1            |         | 17.498   | 1241627.375 | 400978336.000  | 26.7973 |
| 2            |         | 24.998   | 517815.500  | 188737536.000  | 12.6133 |
| 3            |         | 36.798   | 1204099.875 | 429762208.000  | 28.7209 |
| 4            |         | 49.065   | 1187190.125 | 476859840.000  | 31.8685 |
| <b>Total</b> |         |          | 4150732.875 | 1496337920.000 | 100.000 |

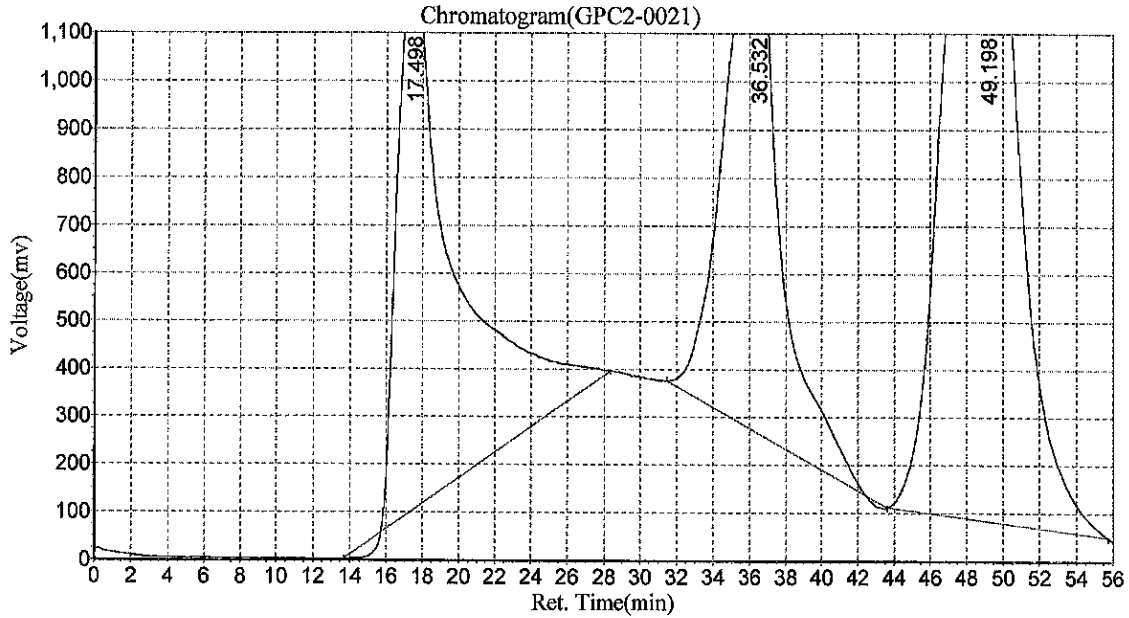
### Ingredient Table

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

04  
**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-21,10:14:10 AM  
Data File:c:\n2000\data\gpc2\032023\GPC2-0021  
Method File:E:\GPC2\_InHouse.mtd

Analyst:°NRB  
Date/Time:2023-03-21,10:14:10 AM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.498   | 1146666.000 | 254363952.000 | 29.5232 |
| 2            |         | 36.532   | 982837.875  | 225198368.000 | 26.1381 |
| 3            |         | 49.198   | 1169467.125 | 382009568.000 | 44.3387 |
| <b>Total</b> |         |          | 3298971.000 | 861571888.000 | 100.000 |

**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |



## CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLB0033

Cleanup Type: GPC

Cleanup Method: EPA 3640A GPC Cleanup 1:1

Analysis: EPA 8270E

| SAMPLE NAME      | LAB SAMPLE ID | LAB FILE ID    | DATE PREPARED | OBSERVATIONS |
|------------------|---------------|----------------|---------------|--------------|
| LDW23-SS1266     | 23A0179-03    | NT1423022832.D | 02/05/2023    |              |
| LDW23-SS1039     | 23A0179-11    | NT1423022842.D | 02/05/2023    |              |
| LDW23-SS1112     | 23A0179-10    | NT1423022853.D | 02/05/2023    |              |
| LDW23-SS1171     | 23A0179-09    | NT1423022852.D | 02/05/2023    |              |
| LDW23-SS1178     | 23A0179-08    | NT1423022841.D | 02/05/2023    |              |
| LDW23-SS1200     | 23A0179-07    | NT1423022840.D | 02/05/2023    |              |
| LDW23-SS1213     | 23A0179-06    | NT1423022835.D | 02/05/2023    |              |
| LDW23-SS1007     | 23A0179-12    | NT1423022843.D | 02/05/2023    |              |
| LDW23-SS1248     | 23A0179-04    | NT1423022833.D | 02/05/2023    |              |
| Reference        | BLA0557-SRM1  | NT1423022829.D | 02/05/2023    |              |
| LDW23-SS1271     | 23A0179-02    | NT1423022831.D | 02/05/2023    |              |
| LDW23-SS1277     | 23A0179-01    | NT1423022830.D | 02/05/2023    |              |
| Blank            | BLA0557-BLK1  | NT1423022826.D | 02/05/2023    |              |
| LCS              | BLA0557-BS1   | NT1423022827.D | 02/05/2023    |              |
| LCS Dup          | BLA0557-BSD1  | NT1423022828.D | 02/05/2023    |              |
| Matrix Spike     | BLA0557-MS1   | NT1423022854.D | 02/05/2023    |              |
| Matrix Spike Dup | BLA0557-MSD1  | NT1423022855.D | 02/05/2023    |              |
| LDW23-SS1239     | 23A0179-05    | NT1423022834.D | 02/05/2023    |              |



**CLEANUP BENCH SHEET**

CLB0033

Matrix: Solid      Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1      Check Standard: CLA0166-GPC1      Printed: 2/5/2023 10:16:35AM

| Lab Number | Sample Container | Sample Name  | Extract Container | Initial (uL) | Final (uL) | Analysis   | Clean Up Date | Cleaned By | Cleanup Comments |
|------------|------------------|--------------|-------------------|--------------|------------|--|---------------|------------|------------------|
| 23A0179-01 | A                | LDW23-SS1277 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-01 | A                | LDW23-SS1277 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-02 | A                | LDW23-SS1271 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-02 | A                | LDW23-SS1271 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-03 | A                | LDW23-SS1266 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-03 | A                | LDW23-SS1266 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-04 | A                | LDW23-SS1248 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-04 | A                | LDW23-SS1248 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-05 | A                | LDW23-SS1239 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-05 | A                | LDW23-SS1239 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-06 | A                | LDW23-SS1213 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-06 | A                | LDW23-SS1213 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-07 | A                | LDW23-SS1200 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-07 | A                | LDW23-SS1200 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-08 | A                | LDW23-SS1178 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-08 | A                | LDW23-SS1178 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-09 | A                | LDW23-SS1171 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-09 | A                | LDW23-SS1171 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-10 | A                | LDW23-SS1112 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-10 | A                | LDW23-SS1112 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-11 | A                | LDW23-SS1039 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-11 | A                | LDW23-SS1039 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |



**CLEANUP BENCH SHEET**

CLB0033

Matrix: Solid      Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1      Check Standard: CLA0166-GPC1      Printed: 2/5/2023 10:16:35AM

| Lab Number   | Sample Container | Sample Name      | Extract Container | Initial (uL) | Final (uL) | Analysis   | Clean Up Date | Cleaned By | Cleanup Comments |
|--------------|------------------|------------------|-------------------|--------------|------------|--|---------------|------------|------------------|
| 23A0179-12   | A                | LDW23-SS1007     | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-12   | A                | LDW23-SS1007     | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0180-01   | A                | LDW23-SC1164     | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0180-01   | A                | LDW23-SC1164     | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0180-02   | A                | LDW23-SC1164-FD  | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0180-02   | A                | LDW23-SC1164-FD  | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0180-03   | A                | LDW23-SC1158     | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0180-03   | A                | LDW23-SC1158     | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0180-04   | A                | LDW23-SC1151     | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0180-04   | A                | LDW23-SC1151     | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| BLA0557-BLK1 | -                | Blank            | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-BLK2 | -                | Blank            | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-BS1  | -                | LCS              | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-BS2  | -                | LCS              | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-BSD1 | -                | LCS Dup          | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-BSD2 | -                | LCS Dup          | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-MS1  | -                | Matrix Spike     | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-MS2  | -                | Matrix Spike     | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-MSD1 | -                | Matrix Spike Dup | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-MSD2 | -                | Matrix Spike Dup | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-SRM1 | -                | Reference        | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-SRM2 | -                | Reference        | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |



### CLEANUP BENCH SHEET

CLB0033

**Matrix: Solid**      **Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1**      **Check Standard: CLA0166-GPC1**      **Printed: 2/5/2023 10:16:35AM**

| Lab Number | Sample Container | Sample Name | Extract Container | Initial (uL) | Final (uL) | Analysis | Clean Up Date | Cleaned By | Cleanup Comments |
|------------|------------------|-------------|-------------------|--------------|------------|----------|---------------|------------|------------------|
|------------|------------------|-------------|-------------------|--------------|------------|----------|---------------|------------|------------------|





## CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLC0186

Cleanup Type: GPC

Cleanup Method: EPA 3640A GPC Cleanup 1:1

Analysis: EPA 8270E

| SAMPLE NAME      | LAB SAMPLE ID | LAB FILE ID    | DATE PREPARED | OBSERVATIONS |
|------------------|---------------|----------------|---------------|--------------|
| LDW23-SS1266     | 23A0179-03RE1 | NT1003222312.D | 03/21/2023    |              |
| LDW23-SS1039     | 23A0179-11RE1 | NT1003222327.D | 03/21/2023    |              |
| LDW23-SS1112     | 23A0179-10RE1 | NT1003222326.D | 03/21/2023    |              |
| LDW23-SS1171     | 23A0179-09RE1 | NT1003222325.D | 03/21/2023    |              |
| LDW23-SS1178     | 23A0179-08RE1 | NT1003222324.D | 03/21/2023    |              |
| LDW23-SS1200     | 23A0179-07RE1 | NT1003222316.D | 03/21/2023    |              |
| LDW23-SS1213     | 23A0179-06RE1 | NT1003222315.D | 03/21/2023    |              |
| LDW23-SS1007     | 23A0179-12RE1 | NT1003222328.D | 03/21/2023    |              |
| LDW23-SS1248     | 23A0179-04RE1 | NT1003222313.D | 03/21/2023    |              |
| Reference        | BLC0442-SRM1  | NT1003222309.D | 03/21/2023    |              |
| LDW23-SS1271     | 23A0179-02RE1 | NT1003222311.D | 03/21/2023    |              |
| LDW23-SS1277     | 23A0179-01RE1 | NT1003222310.D | 03/21/2023    |              |
| Blank            | BLC0442-BLK1  | NT1003222306.D | 03/21/2023    |              |
| LCS              | BLC0442-BS1   | NT1003222307.D | 03/21/2023    |              |
| LCS Dup          | BLC0442-BSD1  | NT1003222308.D | 03/21/2023    |              |
| Matrix Spike     | BLC0442-MS1   | NT1003222322.D | 03/21/2023    |              |
| Matrix Spike Dup | BLC0442-MSD1  | NT1003222323.D | 03/21/2023    |              |
| LDW23-SS1239     | 23A0179-05RE1 | NT1003222314.D | 03/21/2023    |              |



## CLEANUP BENCH SHEET

CLC0186

Matrix: Solid

Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1

Check Standard: CLB0132-GPC2

Printed: 3/21/2023 2:52:34PM

| Lab Number    | Sample Container | Sample Name  | Extract Container | Initial (uL) | Final (uL) | Analysis                           | Clean Up Date | Cleaned By | Cleanup Comments |
|---------------|------------------|--------------|-------------------|--------------|------------|------------------------------------|---------------|------------|------------------|
| 23A0179-01RE1 | A                | LDW23-SS1277 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0179-01RE1 | A                | LDW23-SS1277 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-02RE1 | A                | LDW23-SS1271 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-02RE1 | A                | LDW23-SS1271 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0179-03RE1 | A                | LDW23-SS1266 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-03RE1 | A                | LDW23-SS1266 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0179-04RE1 | A                | LDW23-SS1248 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-04RE1 | A                | LDW23-SS1248 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0179-05RE1 | A                | LDW23-SS1239 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-05RE1 | A                | LDW23-SS1239 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0179-06RE1 | A                | LDW23-SS1213 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-06RE1 | A                | LDW23-SS1213 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0179-07RE1 | A                | LDW23-SS1200 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0179-07RE1 | A                | LDW23-SS1200 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-08RE1 | A                | LDW23-SS1178 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-08RE1 | A                | LDW23-SS1178 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0179-09RE1 | A                | LDW23-SS1171 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-09RE1 | A                | LDW23-SS1171 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0179-10RE1 | A                | LDW23-SS1112 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0179-10RE1 | A                | LDW23-SS1112 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-11RE1 | A                | LDW23-SS1039 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-11RE1 | A                | LDW23-SS1039 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |



## CLEANUP BENCH SHEET

CLC0186

Matrix: Solid

Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1

Check Standard: CLB0132-GPC2

Printed: 3/21/2023 2:52:34PM

| Lab Number    | Sample Container | Sample Name      | Extract Container | Initial (uL) | Final (uL) | Analysis                           | Clean Up Date | Cleaned By | Cleanup Comments |
|---------------|------------------|------------------|-------------------|--------------|------------|------------------------------------|---------------|------------|------------------|
| 23A0179-12RE1 | A                | LDW23-SS1007     | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-12RE1 | A                | LDW23-SS1007     | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0180-01RE1 | A                | LDW23-SC1164     | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0180-01RE1 | A                | LDW23-SC1164     | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0180-02RE1 | A                | LDW23-SC1164-FD  | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0180-02RE1 | A                | LDW23-SC1164-FD  | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0180-03RE1 | A                | LDW23-SC1158     | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0180-03RE1 | A                | LDW23-SC1158     | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0180-04RE1 | A                | LDW23-SC1151     | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0180-04RE1 | A                | LDW23-SC1151     | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| BLC0442-BLK1  | -                | Blank            | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-BLK2  | -                | Blank            | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-BS1   | -                | LCS              | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-BS2   | -                | LCS              | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-BSD1  | -                | LCS Dup          | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-BSD2  | -                | LCS Dup          | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-MS1   | -                | Matrix Spike     | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-MS2   | -                | Matrix Spike     | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-MSD1  | -                | Matrix Spike Dup | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-MSD2  | -                | Matrix Spike Dup | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-SRM1  | -                | Reference        | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-SRM2  | -                | Reference        | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |



# CLEANUP BENCH SHEET

CLC0186

Matrix: Solid

Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1

Check Standard: CLB0132-GPC2

Printed: 3/21/2023 2:52:34PM

| Lab Number | Sample Container | Sample Name | Extract Container | Initial (uL) | Final (uL) | Analysis | Clean Up Date | Cleaned By | Cleanup Comments |
|------------|------------------|-------------|-------------------|--------------|------------|----------|---------------|------------|------------------|
|------------|------------------|-------------|-------------------|--------------|------------|----------|---------------|------------|------------------|



Form I  
METHOD BLANK DATA SHEET  
EPA 8270E

Blank

Laboratory: Analytical Resources, LLC SDG: 23A0179  
 Client: Anchor QEA, LLC Project: AOC5 MR Phase 1  
 Matrix: Solid Laboratory ID: BLA0557-BLK1 File ID: NT1423022826.D  
 Sampled: N/A Prepared: 01/25/23 14:20 Analyzed: 03/01/23 16:40  
 Solids: Preparation: EPA 3546 (Microwave) Initial/Final: 10 g / 1 mL  
 Batch: BLA0557 Sequence: SLB0374 Calibration: GC00033  
 Instrument: NT14 Column: ZB-5MS Cleanups: GPC

| CAS NO.  | COMPOUND                    | DILUTION | CONC:<br>(ug/kg wet) | Q | DL   | RL   |
|----------|-----------------------------|----------|----------------------|---|------|------|
| 108-95-2 | Phenol                      | 1        | 33.1                 |   | 4.4  | 20.0 |
| 106-44-5 | 4-Methylphenol              | 1        | 20.0                 | U | 7.4  | 20.0 |
| 91-20-3  | Naphthalene                 | 1        | 20.0                 | U | 4.2  | 20.0 |
| 91-57-6  | 2-Methylnaphthalene         | 1        | 20.0                 | U | 4.5  | 20.0 |
| 208-96-8 | Acenaphthylene              | 1        | 20.0                 | U | 6.2  | 20.0 |
| 131-11-3 | Dimethylphthalate           | 1        | 20.0                 | U | 4.4  | 20.0 |
| 83-32-9  | Acenaphthene                | 1        | 20.0                 | U | 5.2  | 20.0 |
| 132-64-9 | Dibenzofuran                | 1        | 20.0                 | U | 14.1 | 20.0 |
| 86-73-7  | Fluorene                    | 1        | 20.0                 | U | 14.6 | 20.0 |
| 85-01-8  | Phenanthrene                | 1        | 20.0                 | U | 8.7  | 20.0 |
| 120-12-7 | Anthracene                  | 1        | 20.0                 | U | 7.2  | 20.0 |
| 206-44-0 | Fluoranthene                | 1        | 20.0                 | U | 6.1  | 20.0 |
| 129-00-0 | Pyrene                      | 1        | 20.0                 | U | 5.7  | 20.0 |
| 85-68-7  | Butylbenzylphthalate        | 1        | 20.0                 | U | 9.4  | 20.0 |
| 56-55-3  | Benzo(a)anthracene          | 1        | 20.0                 | U | 6.0  | 20.0 |
| 218-01-9 | Chrysene                    | 1        | 20.0                 | U | 6.1  | 20.0 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate  | 1        | 50.0                 | U | 5.5  | 50.0 |
|          | Benzo(a)fluoranthene, Total | 1        | 40.0                 | U | 10.0 | 40.0 |
| 50-32-8  | Benzo(a)pyrene              | 1        | 20.0                 | U | 4.2  | 20.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene      | 1        | 20.0                 | U | 14.7 | 20.0 |
| 53-70-3  | Dibenzo(a,h)anthracene      | 1        | 20.0                 | U | 17.2 | 20.0 |
| 191-24-2 | Benzo(g,h,i)perylene        | 1        | 20.0                 | U | 13.6 | 20.0 |

| SURROGATES             | ADDED:<br>(ug/kg wet) | FOUND:<br>(ug/kg wet) | % REC | QC LIMITS | Q |
|------------------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol         | 750.00                | 561                   | 74.8  | 27 - 120  |   |
| Phenol-d5              | 750.00                | 565                   | 75.3  | 29 - 120  |   |
| 2-Chlorophenol-d4      | 750.00                | 555                   | 74.0  | 31 - 120  |   |
| 1,2-Dichlorobenzene-d4 | 500.00                | 373                   | 74.6  | 32 - 120  |   |
| Nitrobenzene-d5        | 500.00                | 448                   | 89.7  | 30 - 120  |   |
| 2-Fluorobiphenyl       | 500.00                | 415                   | 83.0  | 35 - 120  |   |
| 2,4,6-Tribromophenol   | 750.00                | 481                   | 64.2  | 24 - 134  |   |
| p-Terphenyl-d14        | 500.00                | 489                   | 97.8  | 37 - 120  |   |

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022826.D

Date: 01-HRR-2023 16:40

Client ID:

Sample Info: BLR0557-BLK1

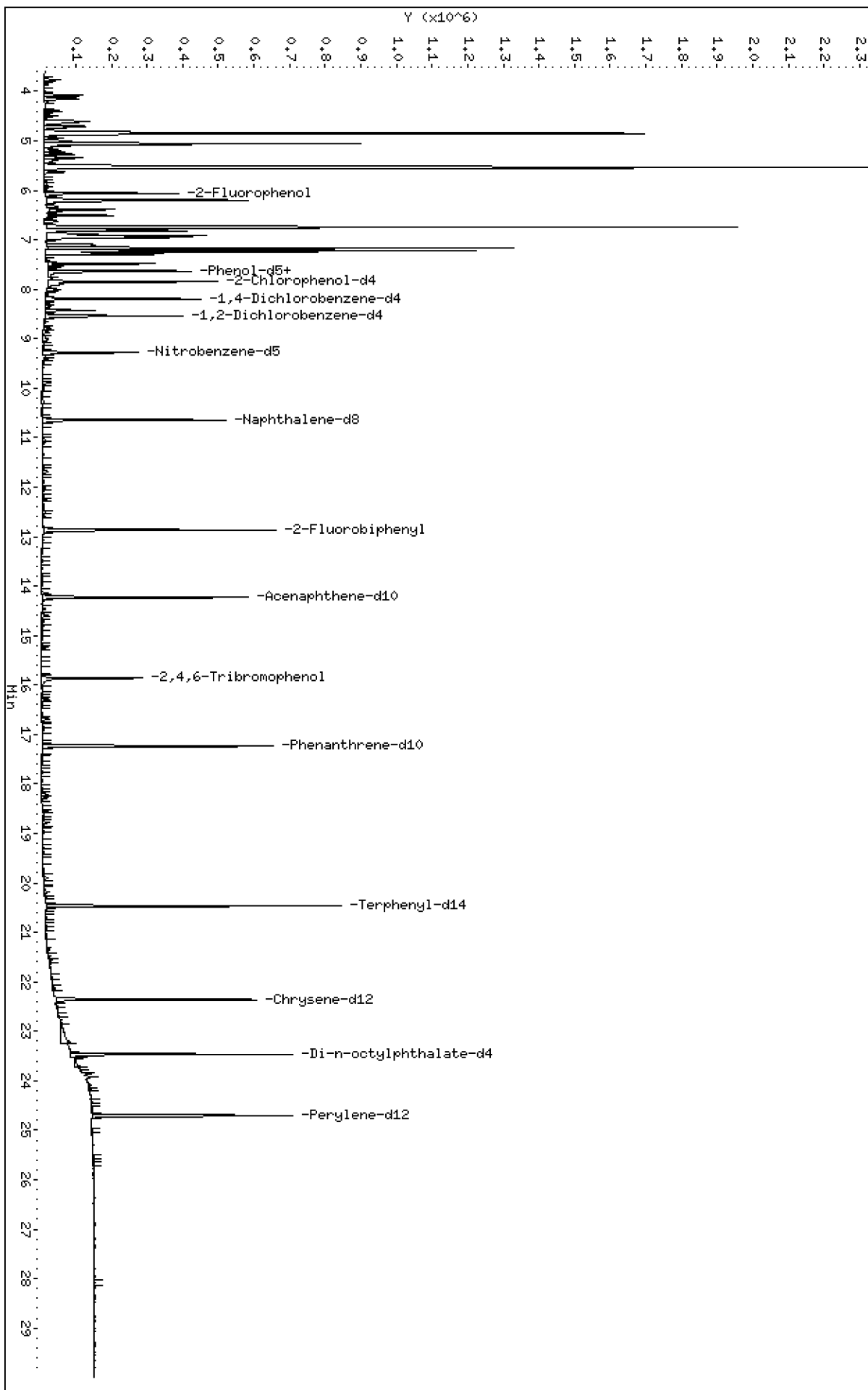
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022826.D



Date : 01-MAR-2023 16:40

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BLK1

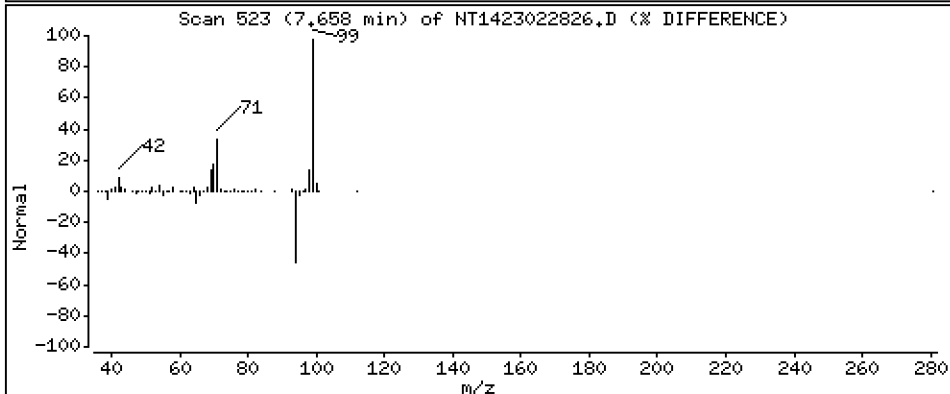
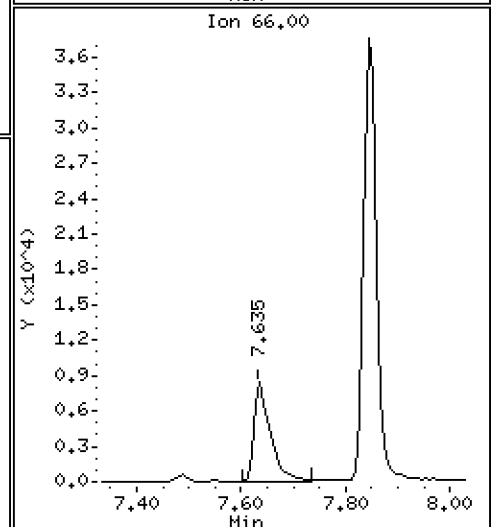
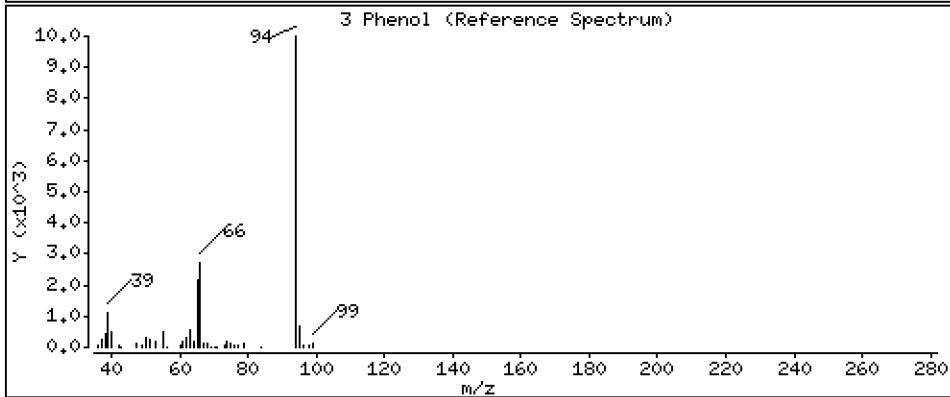
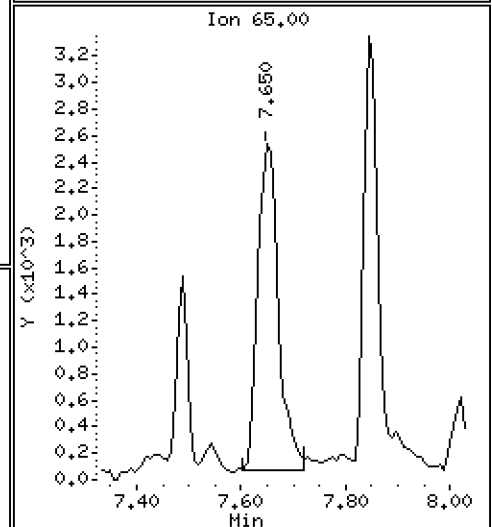
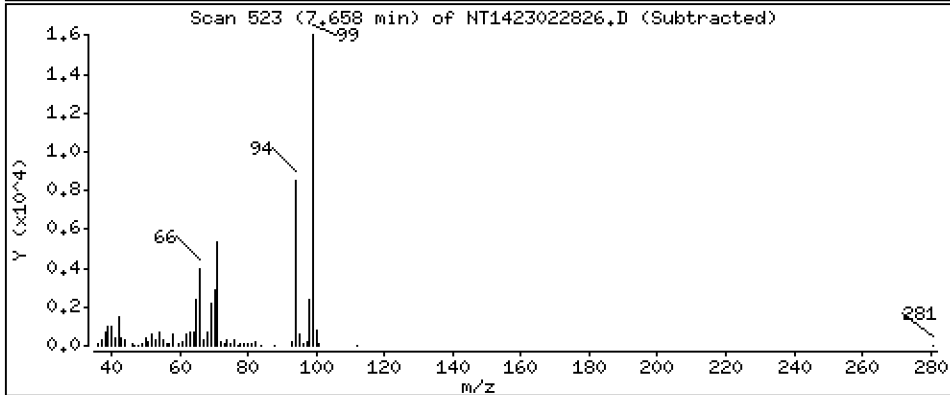
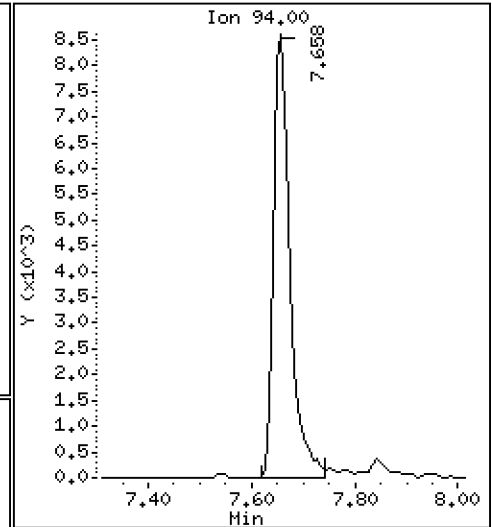
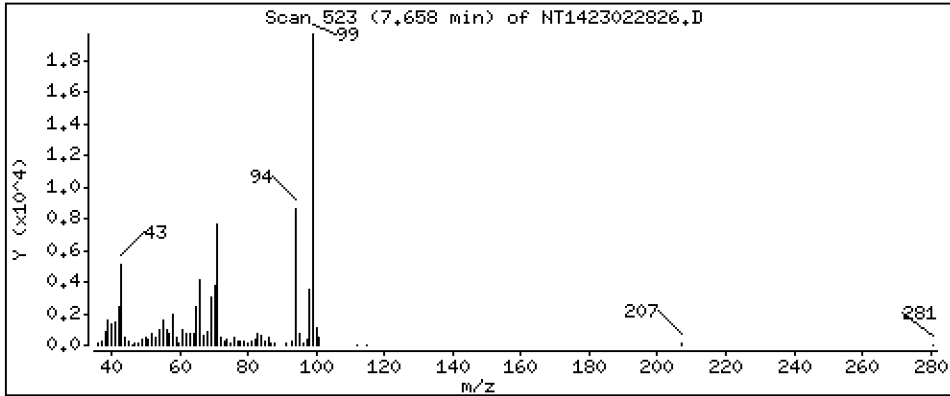
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,3314 ug/mL



Date : 01-MAR-2023 16:40

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BLK1

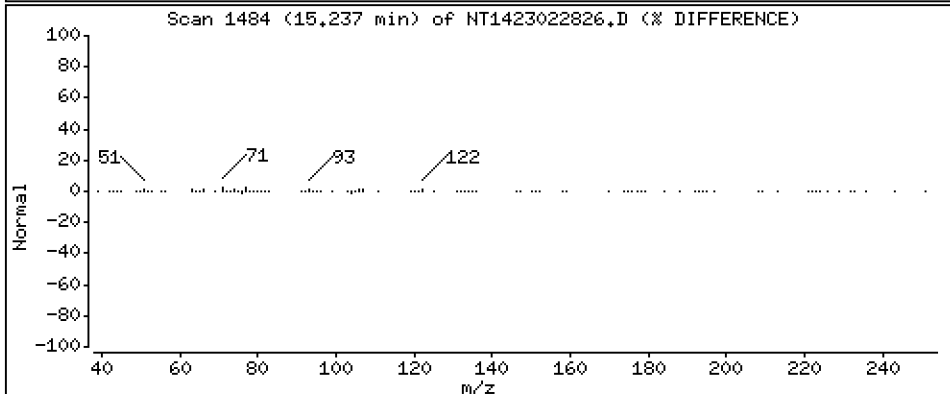
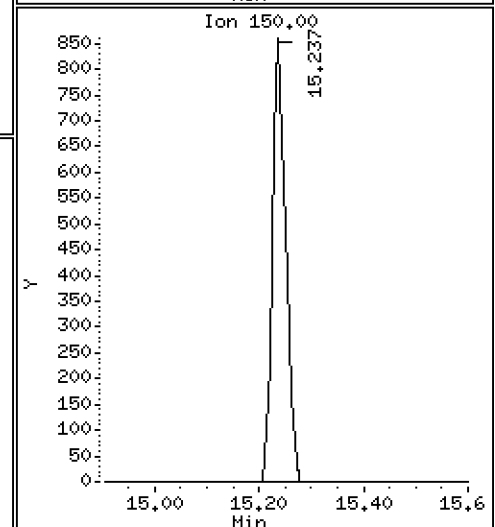
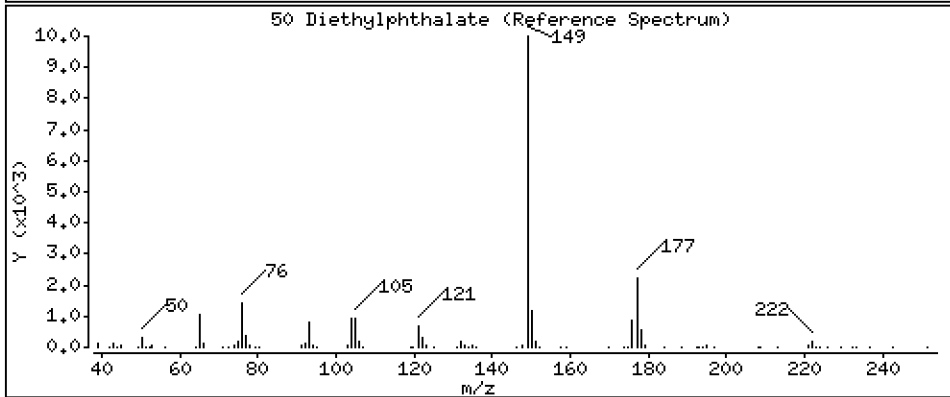
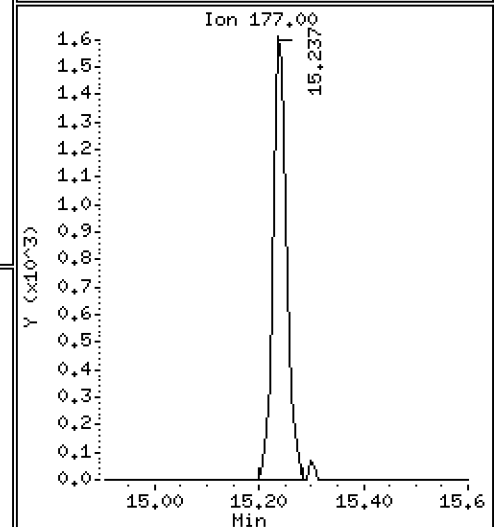
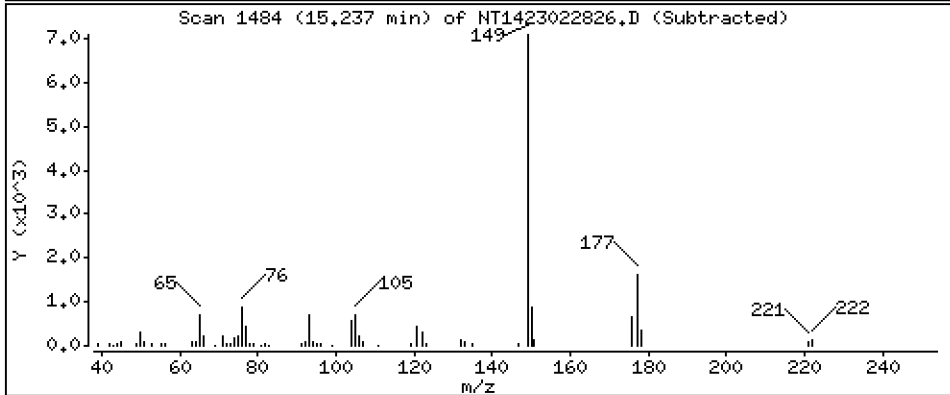
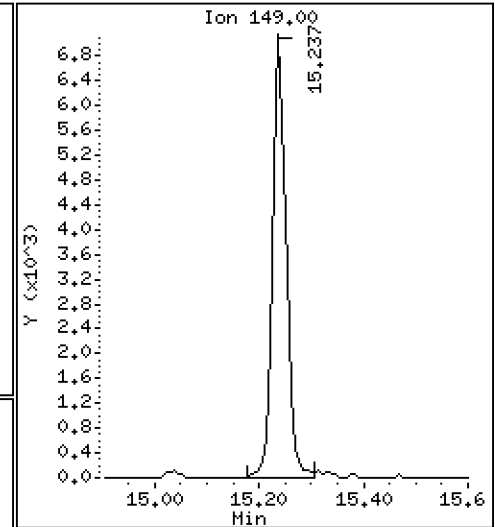
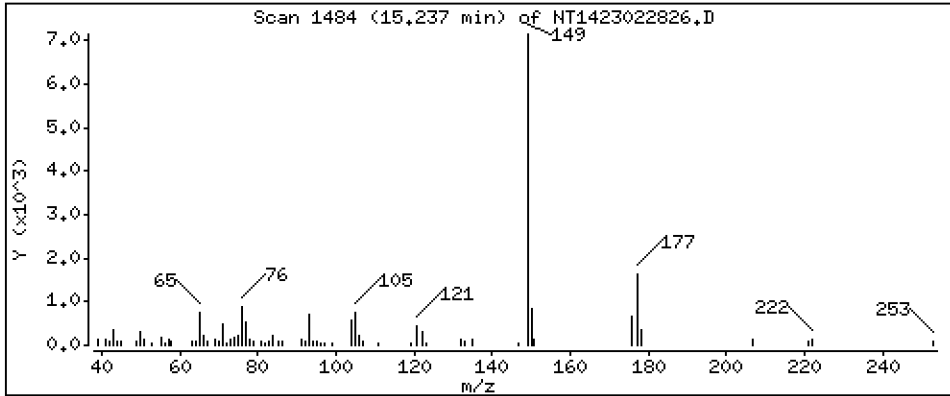
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 0.1728 ug/mL





Date : 01-MAR-2023 16:40

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BLK1

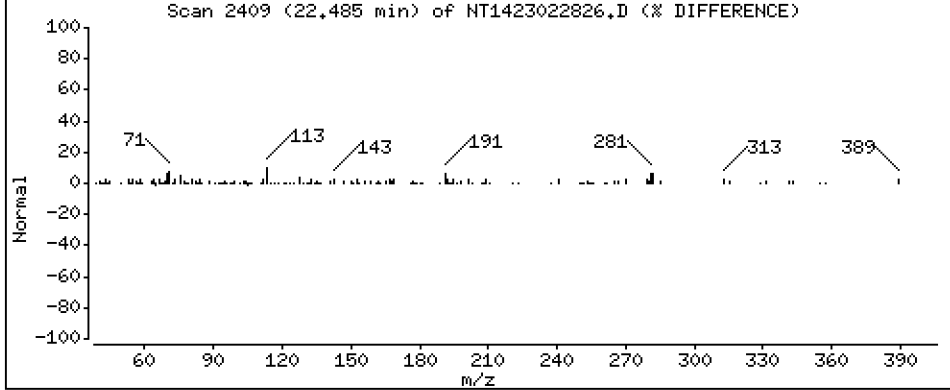
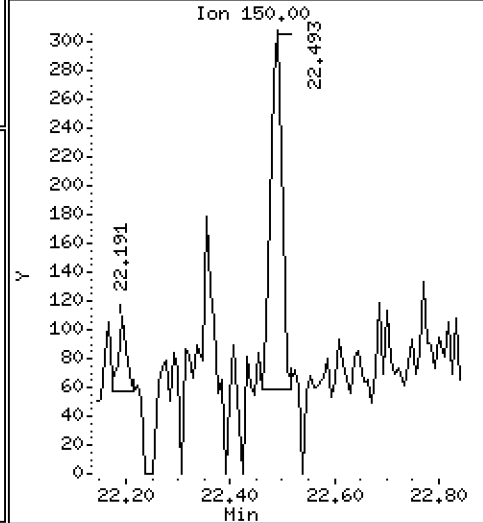
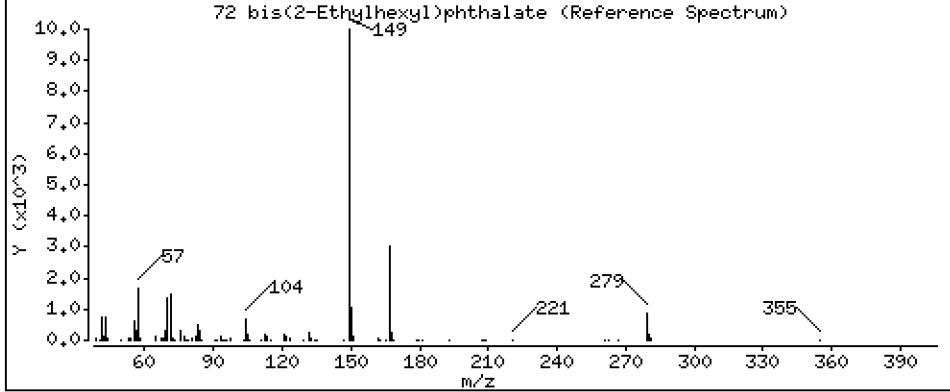
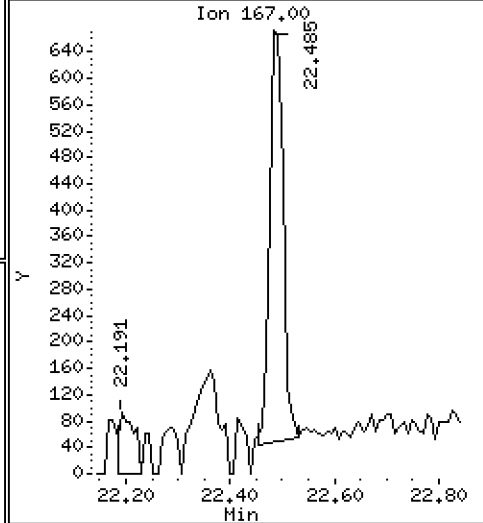
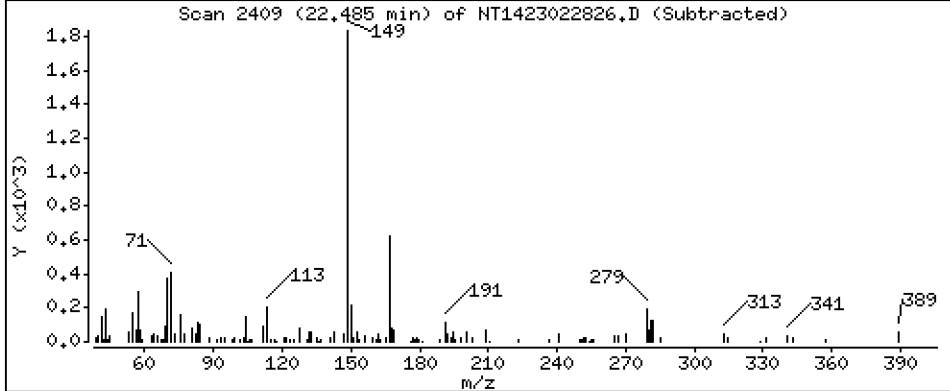
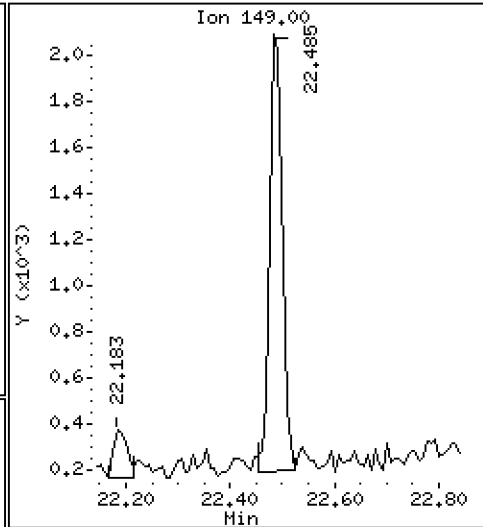
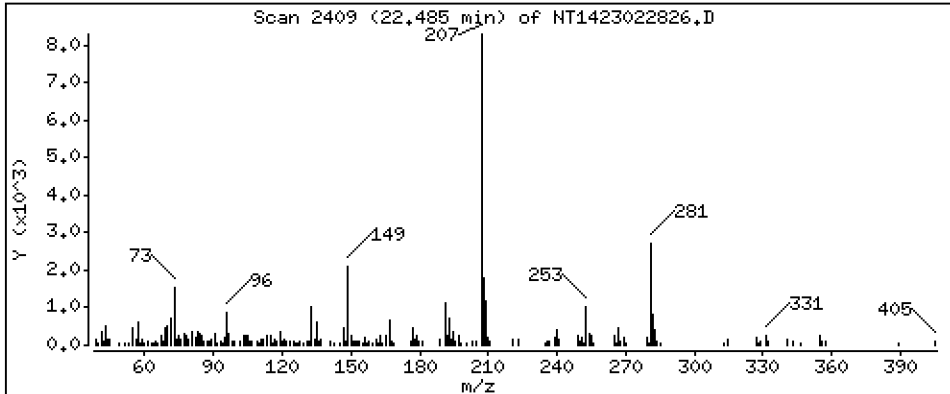
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,04083 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022826.D  
 Lab Smp Id: BLA0557-BLK1  
 Inj Date : 01-MAR-2023 16:40 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : BLA0557-BLK1  
 Misc Info :  
 Comment : lul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 11-Mar-2023 09:11 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 18  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |         |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|---------|
|                                 |       |     |                        |        |         |          | ON-COLUMN      | FINAL   |
|                                 | MASS  |     |                        |        |         |          | (ug/mL)        | (ug/mL) |
| \$ 1 2-Fluorophenol             | 112   |     | 6.058                  | 6.050  | (0.740) | 182211   | 5.61219        | 5.612   |
| \$ 2 Phenol-d5                  | 99    |     | 7.634                  | 7.634  | (0.932) | 260247   | 5.64575        | 5.646   |
| 3 Phenol                        | 94    |     | 7.658                  | 7.657  | (0.935) | 18229    | 0.33144        | 0.3314  |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.843                  | 7.850  | (0.957) | 217503   | 5.54916        | 5.549   |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | Compound Not Detected. |        |         |          |                |         |
| 6 2-Chlorophenol                | 128   |     | Compound Not Detected. |        |         |          |                |         |
| 7 1,3-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |         |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.191                  | 8.191  | (1.000) | 119737   | 4.00000        |         |
| 9 1,4-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |         |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.540                  | 8.548  | (1.043) | 110105   | 3.73137        | 3.731   |
| 12 1,2-Dichlorobenzene          | 146   |     | Compound Not Detected. |        |         |          |                |         |
| 11 Benzyl alcohol               | 108   |     | Compound Not Detected. |        |         |          |                |         |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | Compound Not Detected. |        |         |          |                |         |
| 13 2-Methylphenol               | 108   |     | Compound Not Detected. |        |         |          |                |         |
| 17 Hexachloroethane             | 117   |     | Compound Not Detected. |        |         |          |                |         |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | Compound Not Detected. |        |         |          |                |         |
| 15 4-Methylphenol               | 108   |     | Compound Not Detected. |        |         |          |                |         |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.278                  | 9.285  | (0.872) | 188267   | 4.48406        | 4.484   |
| 19 Nitrobenzene                 | 77    |     | Compound Not Detected. |        |         |          |                |         |
| 20 Isophorone                   | 82    |     | Compound Not Detected. |        |         |          |                |         |
| 21 2-Nitrophenol                | 139   |     | Compound Not Detected. |        |         |          |                |         |
| 22 2,4-Dimethylphenol           | 107   |     | Compound Not Detected. |        |         |          |                |         |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | Compound Not Detected. |        |         |          |                |         |
| 24 Benzoic acid                 | 105   |     | Compound Not Detected. |        |         |          |                |         |
| 25 2,4-Dichlorophenol           | 162   |     | Compound Not Detected. |        |         |          |                |         |
| 26 1,2,4-Trichlorobenzene       | 180   |     | Compound Not Detected. |        |         |          |                |         |
| * 27 Naphthalene-d8             | 136   |     | 10.642                 | 10.649 | (1.000) | 429209   | 4.00000        |         |
| 28 Naphthalene                  | 128   |     | Compound Not Detected. |        |         |          |                |         |
| 29 4-Chloroaniline              | 127   |     | Compound Not Detected. |        |         |          |                |         |
| 30 Hexachlorobutadiene          | 225   |     | Compound Not Detected. |        |         |          |                |         |
| 31 4-Chloro-3-methylphenol      | 107   |     | Compound Not Detected. |        |         |          |                |         |
| 32 2-Methylnaphthalene          | 142   |     | Compound Not Detected. |        |         |          |                |         |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                |         |

| Compounds                         | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
|                                   |       |     |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| \$ 36 2-Fluorobiphenyl            | 172   |     | 12.870 | 12.877 | (0.904) | 397580   | 4.14863              | 4.149            |
| 37 2-Chloronaphthalene            | 162   |     |        |        |         |          |                      |                  |
| 38 2-Nitroaniline                 | 65    |     |        |        |         |          |                      |                  |
| 39 Dimethylphthalate              | 163   |     |        |        |         |          |                      |                  |
| 40 Acenaphthylene                 | 152   |     |        |        |         |          |                      |                  |
| 41 2,6-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| * 42 Acenaphthene-d10             | 164   |     | 14.232 | 14.232 | (1.000) | 246224   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 44 Acenaphthene                   | 153   |     |        |        |         |          |                      |                  |
| 45 2,4-Dinitrophenol              | 184   |     |        |        |         |          |                      |                  |
| 46 Dibenzofuran                   | 168   |     |        |        |         |          |                      |                  |
| 47 4-Nitrophenol                  | 109   |     |        |        |         |          |                      |                  |
| 48 2,4-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| 50 Diethylphthalate               | 149   |     | 15.237 | 15.252 | (1.071) | 12518    | 0.17284              | 0.1728           |
| 49 Fluorene                       | 166   |     |        |        |         |          |                      |                  |
| 51 4-Chlorophenyl-phenylether     | 204   |     |        |        |         |          |                      |                  |
| 52 4-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     |        |        |         |          |                      |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     |        |        |         |          |                      |                  |
| \$ 55 2,4,6-Tribromophenol        | 330   |     | 15.862 | 15.870 | (1.115) | 64930    | 4.81274              | 4.813            |
| 56 4-Bromophenyl-phenylether      | 248   |     |        |        |         |          |                      |                  |
| 57 Hexachlorobenzene              | 284   |     |        |        |         |          |                      |                  |
| 58 Pentachlorophenol              | 266   |     |        |        |         |          |                      |                  |
| * 59 Phenanthrene-d10             | 188   |     | 17.237 | 17.237 | (1.000) | 459727   | 4.00000              |                  |
| 60 Phenanthrene                   | 178   |     |        |        |         |          |                      |                  |
| 61 Anthracene                     | 178   |     |        |        |         |          |                      |                  |
| 62 Carbazole                      | 167   |     |        |        |         |          |                      |                  |
| 63 Di-n-butylphthalate            | 149   |     |        |        |         |          |                      |                  |
| 64 Fluoranthene                   | 202   |     |        |        |         |          |                      |                  |
| 65 Pyrene                         | 202   |     |        |        |         |          |                      |                  |
| \$ 66 Terphenyl-d14               | 244   |     | 20.464 | 20.471 | (0.915) | 493068   | 4.89106              | 4.891            |
| 67 Butylbenzylphthalate           | 149   |     |        |        |         |          |                      |                  |
| 68 Benzo(a)anthracene             | 228   |     |        |        |         |          |                      |                  |
| * 69 Chrysene-d12                 | 240   |     | 22.361 | 22.361 | (1.000) | 327323   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     |        |        |         |          |                      |                  |
| 71 Chrysene                       | 228   |     |        |        |         |          |                      |                  |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 22.485 | 22.492 | (0.958) | 3051     | 0.04083              | 0.04083          |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 23.468 | 23.468 | (1.000) | 489283   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149   |     |        |        |         |          |                      |                  |
| 74 Benzo(b)fluoranthene           | 252   |     |        |        |         |          |                      |                  |
| 75 Benzo(k)fluoranthene           | 252   |     |        |        |         |          |                      |                  |
| 76 Benzo(a)pyrene                 | 252   |     |        |        |         |          |                      |                  |
| * 77 Perylene-d12                 | 264   |     | 24.707 | 24.707 | (1.000) | 397979   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     |        |        |         |          |                      |                  |
| 79 Dibenzo(a,h)anthracene         | 278   |     |        |        |         |          |                      |                  |
| 80 Benzo(g,h,i)perylene           | 276   |     |        |        |         |          |                      |                  |
| 90 N-Nitrosodimethylamine         | 74    |     |        |        |         |          |                      |                  |
| 91 Aniline                        | 93    |     |        |        |         |          |                      |                  |
| 93 Benzidine                      | 184   |     |        |        |         |          |                      |                  |
| 103 Pyridine                      | 79    |     |        |        |         |          |                      |                  |
| 105 1-methylnaphthalene           | 142   |     |        |        |         |          |                      |                  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     |        |        |         |          |                      |                  |

| Compounds                     | QUANT<br>MASS | SIG   | RT    | EXP RT | REL RT                 | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|---------------|-------|-------|--------|------------------------|----------|----------------------|------------------|
|                               |               |       |       |        |                        |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| =====                         | =====         | ===== | ===== | =====  | =====                  | =====    | =====                |                  |
| 187 Total Benzofluoranthenes  | 252           |       |       |        | Compound Not Detected. |          |                      |                  |
| 120 2,3,4,6-Tetrachlorophenol | 232           |       |       |        | Compound Not Detected. |          |                      |                  |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023  
 Lab File ID: NT1423022826.D Calibration Time: 13:39  
 Lab Smp Id: BLA0557-BLK1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 125853   | 62927      | 251706  | 119737 | -4.86  |
| 27 Naphthalene-d8     | 454961   | 227481     | 909922  | 429209 | -5.66  |
| 42 Acenaphthene-d10   | 273779   | 136890     | 547558  | 246224 | -10.06 |
| 59 Phenanthrene-d10   | 520384   | 260192     | 1040768 | 459727 | -11.66 |
| 69 Chrysene-d12       | 399183   | 199592     | 798366  | 327323 | -18.00 |
| 134 Di-n-octylphthala | 602810   | 301405     | 1205620 | 489283 | -18.83 |
| 77 Perylene-d12       | 478887   | 239444     | 957774  | 397979 | -16.90 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.19     | 7.69     | 8.69  | 8.19   | 0.00  |
| 27 Naphthalene-d8     | 10.65    | 10.15    | 11.15 | 10.64  | -0.07 |
| 42 Acenaphthene-d10   | 14.23    | 13.73    | 14.73 | 14.23  | 0.00  |
| 59 Phenanthrene-d10   | 17.24    | 16.74    | 17.74 | 17.24  | 0.00  |
| 69 Chrysene-d12       | 22.36    | 21.86    | 22.86 | 22.36  | 0.00  |
| 134 Di-n-octylphthala | 23.47    | 22.97    | 23.97 | 23.47  | 0.00  |
| 77 Perylene-d12       | 24.71    | 24.21    | 25.21 | 24.71  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022826.D

Lab ID: BLA0557-BLK1  
nt14.i, ABN.m, 01-MAR-2023 16:40

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

---

NONE

RRT check based on Ccal File: NT1423022821.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*



Form I  
METHOD BLANK DATA SHEET  
EPA 8270E

Blank

Laboratory: Analytical Resources, LLC SDG: 23A0179  
 Client: Anchor QEA, LLC Project: AOC5 MR Phase 1  
 Matrix: Solid Laboratory ID: BLC0442-BLK1 File ID: NT1003222306.D  
 Sampled: N/A Prepared: 03/17/23 11:16 Analyzed: 03/22/23 20:16  
 Solids: Preparation: EPA 3546 (Microwave) Initial/Final: 10 g / 1 mL  
 Batch: BLC0442 Sequence: SLC0397 Calibration: GC00046  
 Instrument: NT10 Column: ZB-5MSi Cleanups: GPC

| CAS NO.  | COMPOUND                    | DILUTION | CONC:<br>(ug/kg wet) | Q | DL   | RL   |
|----------|-----------------------------|----------|----------------------|---|------|------|
| 108-95-2 | Phenol                      | 1        | 20.0                 | U | 4.4  | 20.0 |
| 106-44-5 | 4-Methylphenol              | 1        | 20.0                 | U | 7.4  | 20.0 |
| 91-20-3  | Naphthalene                 | 1        | 20.0                 | U | 4.2  | 20.0 |
| 91-57-6  | 2-Methylnaphthalene         | 1        | 20.0                 | U | 4.5  | 20.0 |
| 208-96-8 | Acenaphthylene              | 1        | 20.0                 | U | 6.2  | 20.0 |
| 131-11-3 | Dimethylphthalate           | 1        | 20.0                 | U | 4.4  | 20.0 |
| 83-32-9  | Acenaphthene                | 1        | 20.0                 | U | 5.2  | 20.0 |
| 132-64-9 | Dibenzofuran                | 1        | 20.0                 | U | 14.1 | 20.0 |
| 86-73-7  | Fluorene                    | 1        | 20.0                 | U | 14.6 | 20.0 |
| 85-01-8  | Phenanthrene                | 1        | 20.0                 | U | 8.7  | 20.0 |
| 120-12-7 | Anthracene                  | 1        | 20.0                 | U | 7.2  | 20.0 |
| 206-44-0 | Fluoranthene                | 1        | 20.0                 | U | 6.1  | 20.0 |
| 129-00-0 | Pyrene                      | 1        | 20.0                 | U | 5.7  | 20.0 |
| 85-68-7  | Butylbenzylphthalate        | 1        | 20.0                 | U | 9.4  | 20.0 |
| 56-55-3  | Benzo(a)anthracene          | 1        | 20.0                 | U | 6.0  | 20.0 |
| 218-01-9 | Chrysene                    | 1        | 20.0                 | U | 6.1  | 20.0 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate  | 1        | 50.0                 | U | 5.5  | 50.0 |
|          | Benzo(a)fluoranthene, Total | 1        | 40.0                 | U | 10.0 | 40.0 |
| 50-32-8  | Benzo(a)pyrene              | 1        | 20.0                 | U | 4.2  | 20.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene      | 1        | 20.0                 | U | 14.7 | 20.0 |
| 53-70-3  | Dibenzo(a,h)anthracene      | 1        | 20.0                 | U | 17.2 | 20.0 |
| 191-24-2 | Benzo(g,h,i)perylene        | 1        | 20.0                 | U | 13.6 | 20.0 |

| SURROGATES             | ADDED:<br>(ug/kg wet) | FOUND:<br>(ug/kg wet) | % REC | QC LIMITS | Q |
|------------------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol         | 750.00                | 539                   | 71.9  | 27 - 120  |   |
| Phenol-d5              | 750.00                | 565                   | 75.3  | 29 - 120  |   |
| 2-Chlorophenol-d4      | 750.00                | 615                   | 81.9  | 31 - 120  |   |
| 1,2-Dichlorobenzene-d4 | 500.00                | 400                   | 79.9  | 32 - 120  |   |
| Nitrobenzene-d5        | 500.00                | 401                   | 80.1  | 30 - 120  |   |
| 2-Fluorobiphenyl       | 500.00                | 427                   | 85.5  | 35 - 120  |   |
| 2,4,6-Tribromophenol   | 750.00                | 664                   | 88.6  | 24 - 134  | Q |
| p-Terphenyl-d14        | 500.00                | 454                   | 90.8  | 37 - 120  |   |

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222306.D

Date: 22-MAR-2023 20:16

Client ID:

Sample Info: BLC0442-BLK1

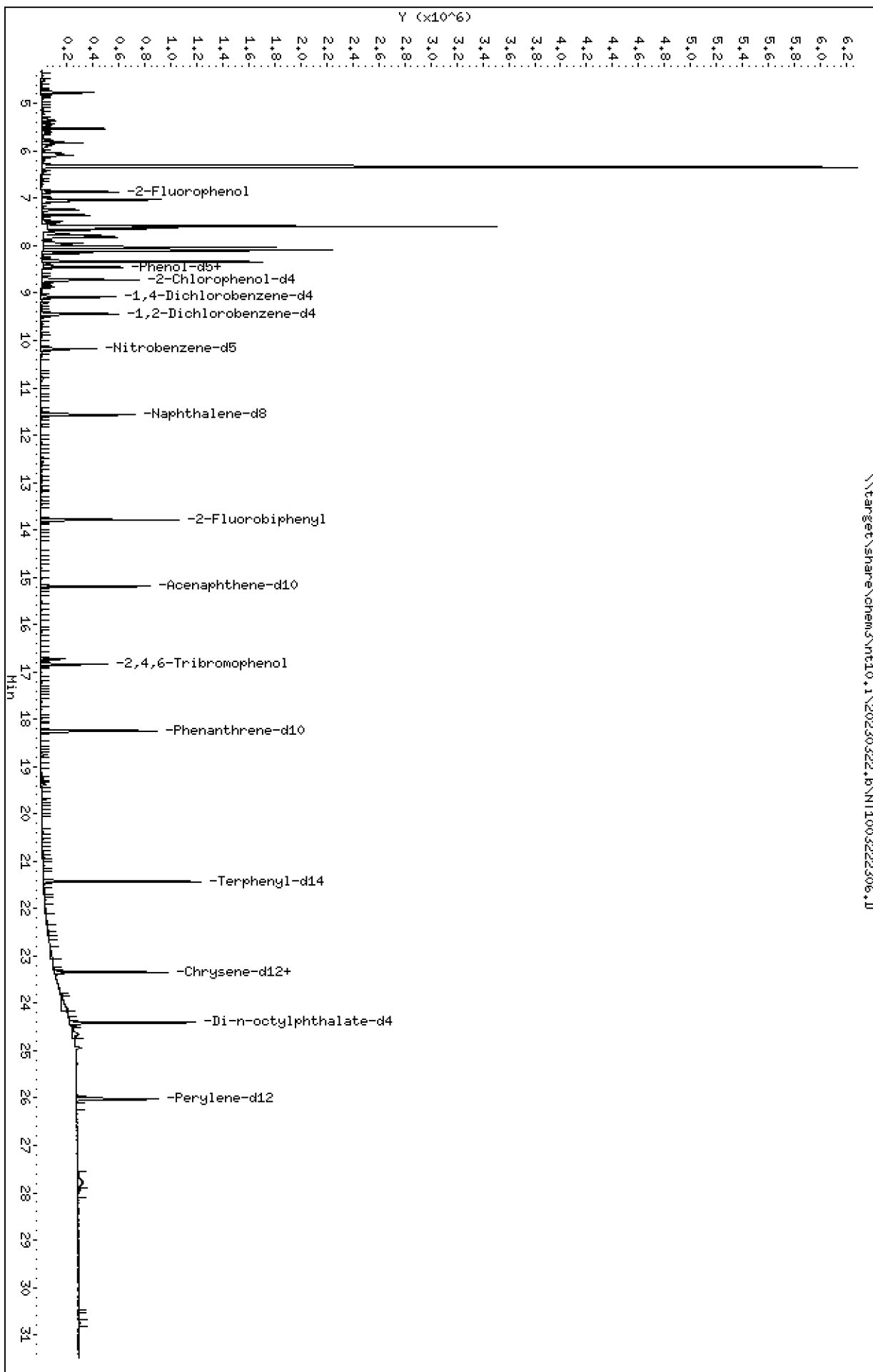
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1





Date : 22-MAR-2023 20:16

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BLK1

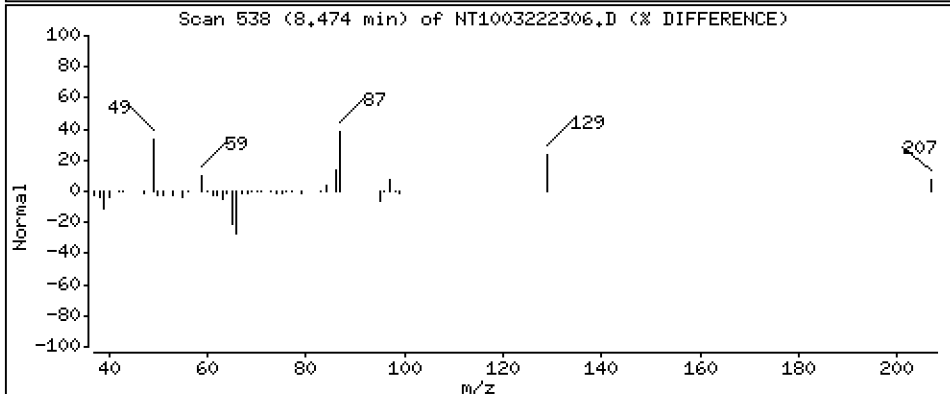
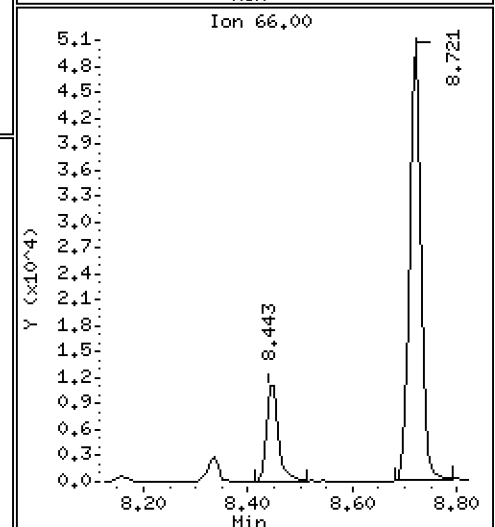
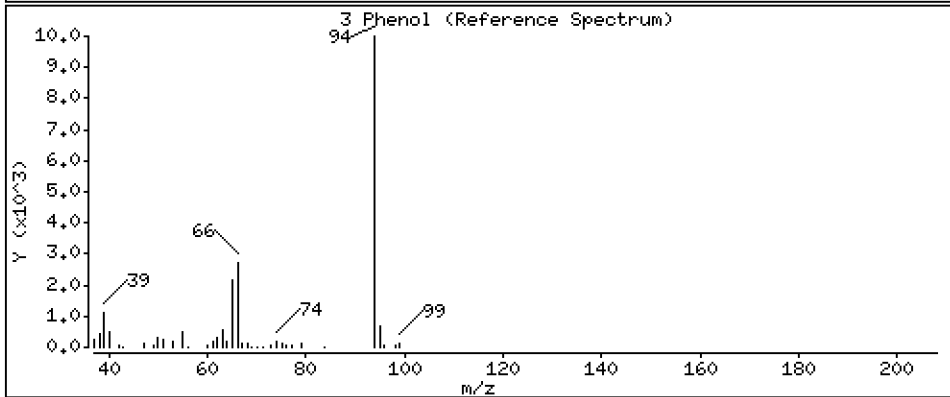
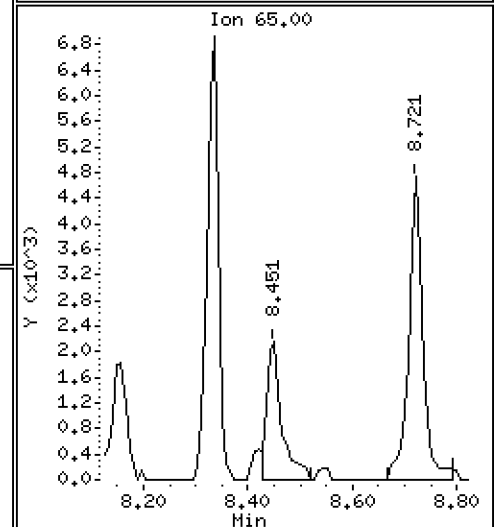
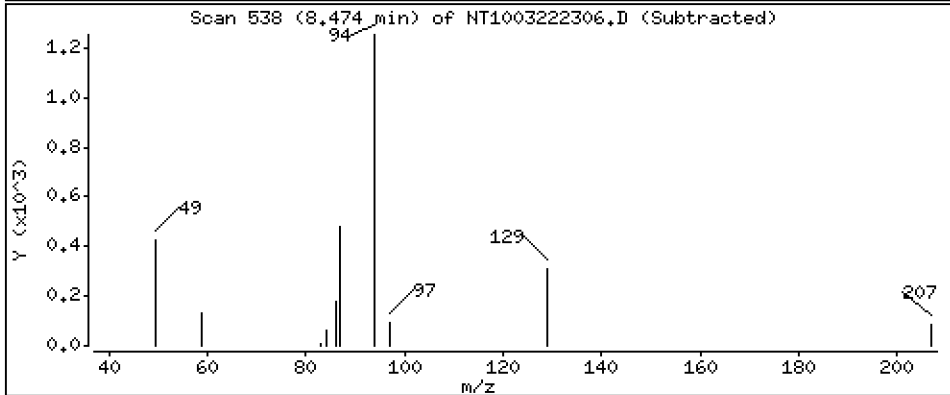
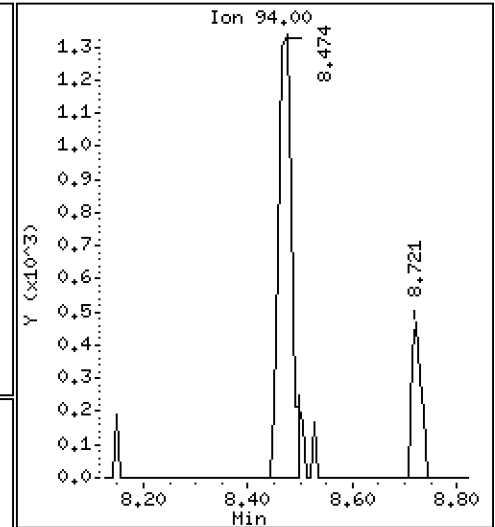
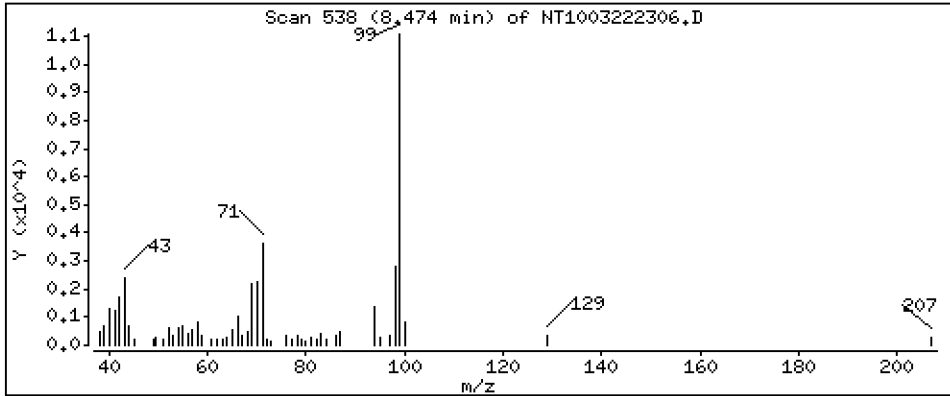
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,03230 ug/mL



Date : 22-MAR-2023 20:16

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BLK1

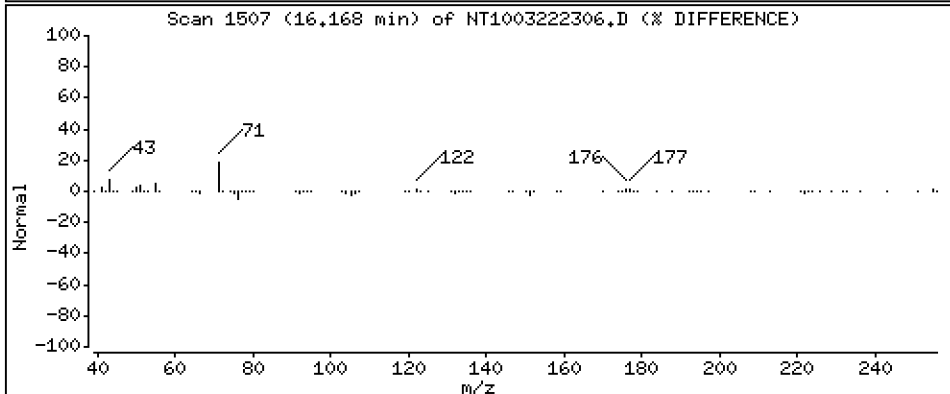
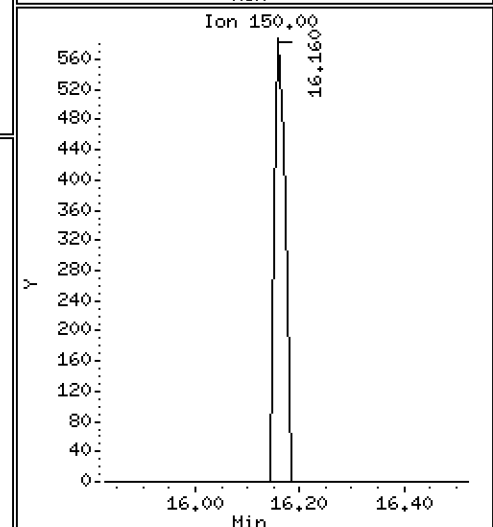
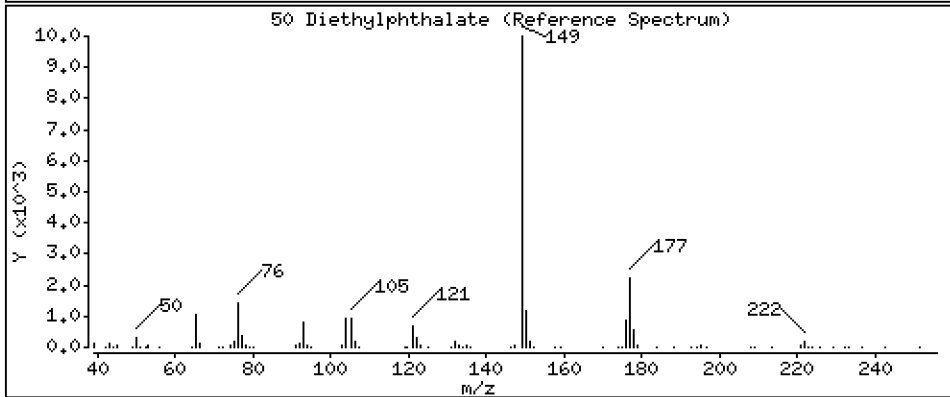
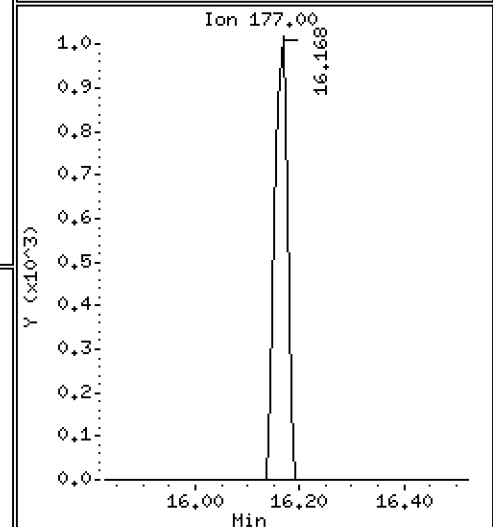
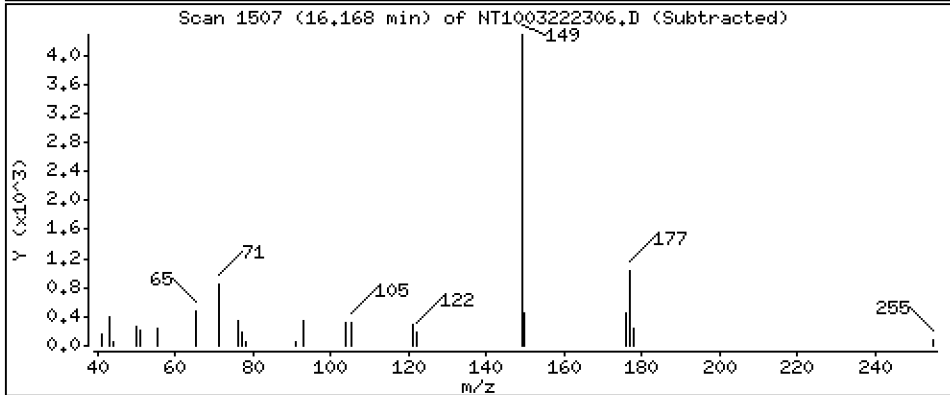
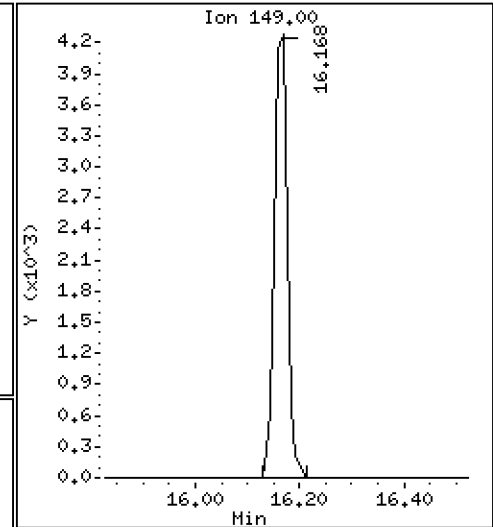
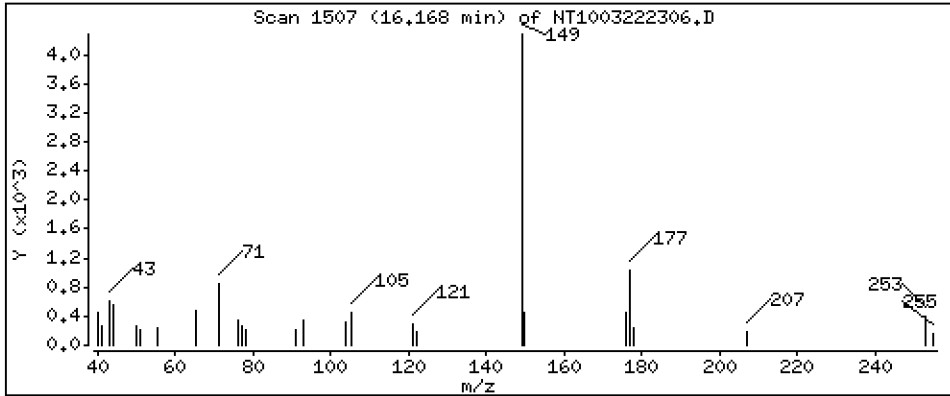
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,08070 ug/mL



Date : 22-MAR-2023 20:16

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BLK1

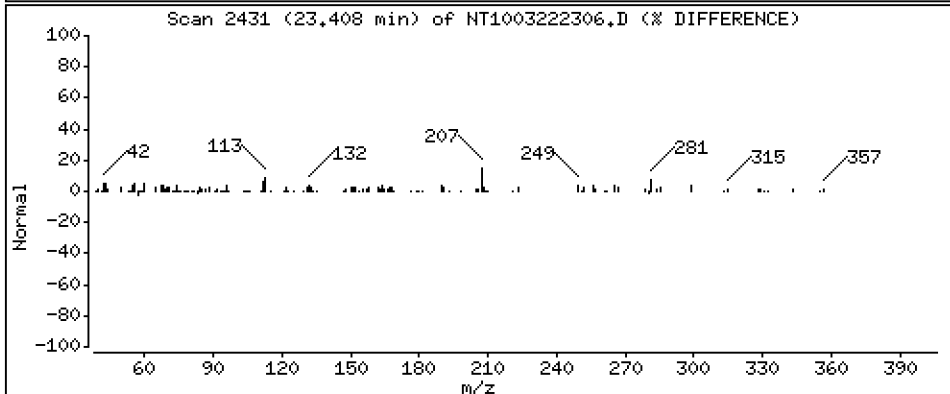
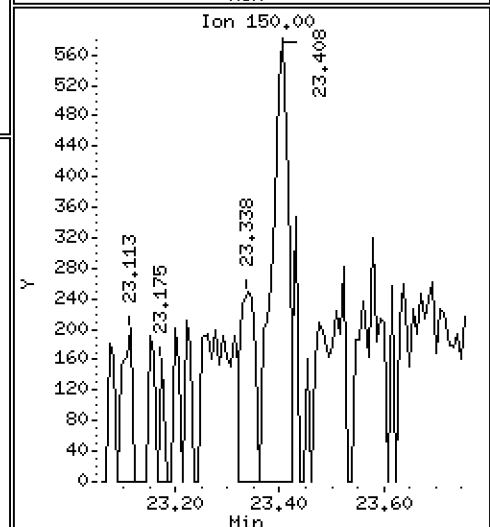
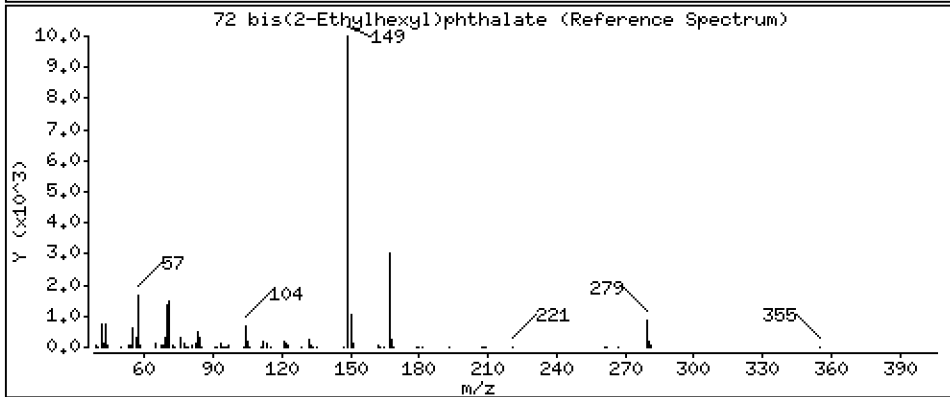
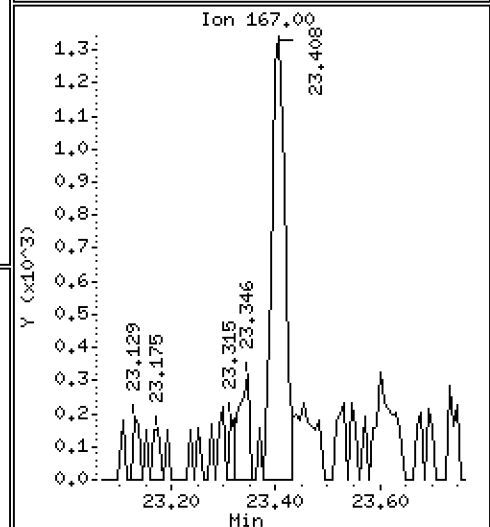
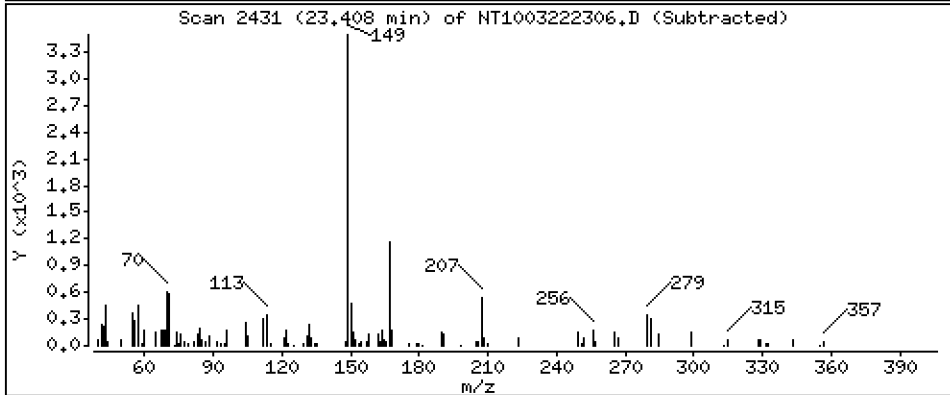
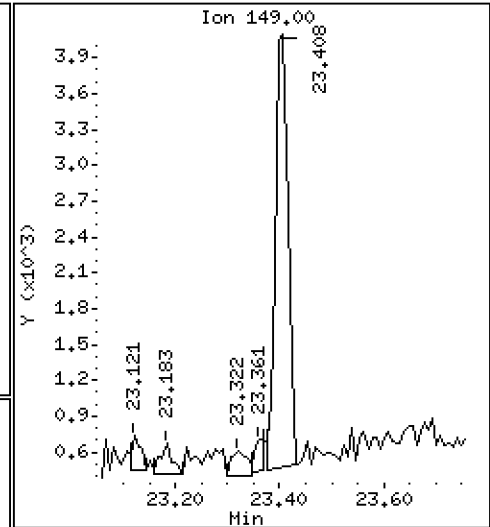
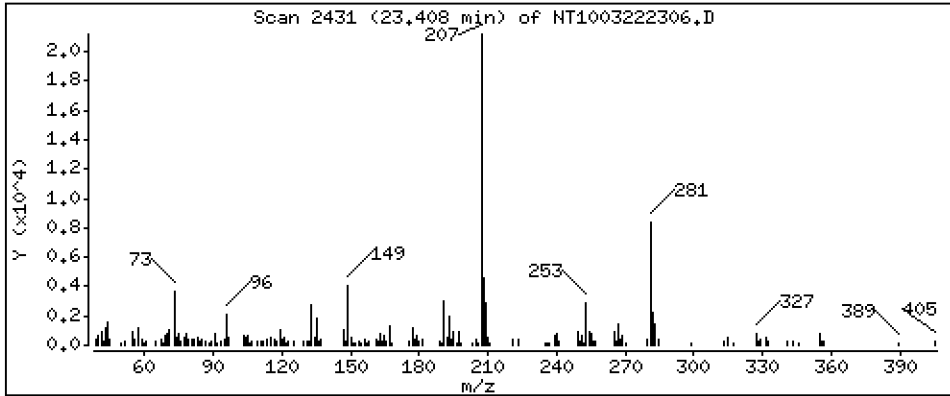
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0.05319 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222306.D  
 Lab Smp Id: BLC0442-BLK1  
 Inj Date : 22-MAR-2023 20:16  
 Operator : VTS  
 Smp Info : BLC0442-BLK1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 07:55 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 6  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |         |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|---------|
|                                 |       |     |                        |        |         |          | ON-COLUMN      | FINAL   |
|                                 | MASS  |     |                        |        |         |          | (ug/mL)        | (ug/mL) |
| =====                           | ====  |     | ====                   | =====  | =====   | =====    | =====          | =====   |
| \$ 1 2-Fluorophenol             | 112   |     | 6.859                  | 6.851  | (0.755) | 271472   | 5.39426        | 5.394   |
| \$ 2 Phenol-d5                  | 99    |     | 8.450                  | 8.450  | (0.930) | 372750   | 5.64598        | 5.646   |
| 3 Phenol                        | 94    |     | 8.474                  | 8.473  | (0.933) | 2216     | 0.03230        | 0.03230 |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.721                  | 8.721  | (0.960) | 346503   | 6.14620        | 6.146   |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | Compound Not Detected. |        |         |          |                |         |
| 6 2-Chlorophenol                | 128   |     | Compound Not Detected. |        |         |          |                |         |
| 7 1,3-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |         |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.084                  | 9.084  | (1.000) | 166416   | 4.00000        |         |
| 9 1,4-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |         |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.441                  | 9.449  | (1.039) | 161804   | 3.99643        | 3.996   |
| 12 1,2-Dichlorobenzene          | 146   |     | Compound Not Detected. |        |         |          |                |         |
| 11 Benzyl alcohol               | 108   |     | Compound Not Detected. |        |         |          |                |         |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | Compound Not Detected. |        |         |          |                |         |
| 13 2-Methylphenol               | 108   |     | Compound Not Detected. |        |         |          |                |         |
| 17 Hexachloroethane             | 117   |     | Compound Not Detected. |        |         |          |                |         |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | Compound Not Detected. |        |         |          |                |         |
| 15 4-Methylphenol               | 108   |     | Compound Not Detected. |        |         |          |                |         |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.179                 | 10.187 | (0.880) | 239123   | 4.00578        | 4.006   |
| 19 Nitrobenzene                 | 77    |     | Compound Not Detected. |        |         |          |                |         |
| 20 Isophorone                   | 82    |     | Compound Not Detected. |        |         |          |                |         |
| 21 2-Nitrophenol                | 139   |     | Compound Not Detected. |        |         |          |                |         |
| 22 2,4-Dimethylphenol           | 107   |     | Compound Not Detected. |        |         |          |                |         |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | Compound Not Detected. |        |         |          |                |         |
| 24 Benzoic acid                 | 105   |     | Compound Not Detected. |        |         |          |                |         |
| 25 2,4-Dichlorophenol           | 162   |     | Compound Not Detected. |        |         |          |                |         |
| 26 1,2,4-Trichlorobenzene       | 180   |     | Compound Not Detected. |        |         |          |                |         |
| * 27 Naphthalene-d8             | 136   |     | 11.572                 | 11.572 | (1.000) | 591408   | 4.00000        |         |
| 28 Naphthalene                  | 128   |     | Compound Not Detected. |        |         |          |                |         |
| 29 4-Chloroaniline              | 127   |     | Compound Not Detected. |        |         |          |                |         |
| 30 Hexachlorobutadiene          | 225   |     | Compound Not Detected. |        |         |          |                |         |
| 31 4-Chloro-3-methylphenol      | 107   |     | Compound Not Detected. |        |         |          |                |         |
| 32 2-Methylnaphthalene          | 142   |     | Compound Not Detected. |        |         |          |                |         |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                |         |

| Compounds                         | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
|                                   |       |     |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| § 36 2-Fluorobiphenyl             | 172   |     | 13.792 | 13.800 | (0.908) | 549905   | 4.27309              | 4.273            |
| 37 2-Chloronaphthalene            | 162   |     |        |        |         |          |                      |                  |
| 38 2-Nitroaniline                 | 65    |     |        |        |         |          |                      |                  |
| 39 Dimethylphthalate              | 163   |     |        |        |         |          |                      |                  |
| 40 Acenaphthylene                 | 152   |     |        |        |         |          |                      |                  |
| 41 2,6-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| * 42 Acenaphthene-d10             | 164   |     | 15.193 | 15.193 | (1.000) | 325327   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 44 Acenaphthene                   | 153   |     |        |        |         |          |                      |                  |
| 45 2,4-Dinitrophenol              | 184   |     |        |        |         |          |                      |                  |
| 46 Dibenzofuran                   | 168   |     |        |        |         |          |                      |                  |
| 47 4-Nitrophenol                  | 109   |     |        |        |         |          |                      |                  |
| 48 2,4-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| 50 Diethylphthalate               | 149   |     | 16.167 | 16.175 | (1.064) | 8368     | 0.08070              | 0.08070          |
| 49 Fluorene                       | 166   |     |        |        |         |          |                      |                  |
| 51 4-Chlorophenyl-phenylether     | 204   |     |        |        |         |          |                      |                  |
| 52 4-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     |        |        |         |          |                      |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     |        |        |         |          |                      |                  |
| § 55 2,4,6-Tribromophenol         | 330   |     | 16.838 | 16.846 | (1.108) | 100819   | 6.64431              | 6.644            |
| 56 4-Bromophenyl-phenylether      | 248   |     |        |        |         |          |                      |                  |
| 57 Hexachlorobenzene              | 284   |     |        |        |         |          |                      |                  |
| 58 Pentachlorophenol              | 266   |     |        |        |         |          |                      |                  |
| * 59 Phenanthrene-d10             | 188   |     | 18.245 | 18.253 | (1.000) | 589824   | 4.00000              |                  |
| 60 Phenanthrene                   | 178   |     |        |        |         |          |                      |                  |
| 61 Anthracene                     | 178   |     |        |        |         |          |                      |                  |
| 62 Carbazole                      | 167   |     |        |        |         |          |                      |                  |
| 63 Di-n-butylphthalate            | 149   |     |        |        |         |          |                      |                  |
| 64 Fluoranthene                   | 202   |     |        |        |         |          |                      |                  |
| 65 Pyrene                         | 202   |     |        |        |         |          |                      |                  |
| § 66 Terphenyl-d14                | 244   |     | 21.425 | 21.425 | (0.918) | 693043   | 4.54125              | 4.541            |
| 67 Butylbenzylphthalate           | 149   |     |        |        |         |          |                      |                  |
| 68 Benzo(a)anthracene             | 228   |     |        |        |         |          |                      |                  |
| * 69 Chrysene-d12                 | 240   |     | 23.337 | 23.345 | (1.000) | 493010   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     |        |        |         |          |                      |                  |
| 71 Chrysene                       | 228   |     |        |        |         |          |                      |                  |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 23.407 | 23.407 | (0.959) | 5844     | 0.05319              | 0.05319          |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 24.406 | 24.413 | (1.000) | 751292   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149   |     |        |        |         |          |                      |                  |
| 74 Benzo(b)fluoranthene           | 252   |     |        |        |         |          |                      |                  |
| 75 Benzo(k)fluoranthene           | 252   |     |        |        |         |          |                      |                  |
| 76 Benzo(a)pyrene                 | 252   |     |        |        |         |          |                      |                  |
| * 77 Perylene-d12                 | 264   |     | 26.024 | 26.024 | (1.000) | 544575   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     |        |        |         |          |                      |                  |
| 79 Dibenzo(a,h)anthracene         | 278   |     |        |        |         |          |                      |                  |
| 80 Benzo(g,h,i)perylene           | 276   |     |        |        |         |          |                      |                  |
| 90 N-Nitrosodimethylamine         | 74    |     |        |        |         |          |                      |                  |
| 91 Aniline                        | 93    |     |        |        |         |          |                      |                  |
| 93 Benzidine                      | 184   |     |        |        |         |          |                      |                  |
| 103 Pyridine                      | 79    |     |        |        |         |          |                      |                  |
| 105 1-methylnaphthalene           | 142   |     |        |        |         |          |                      |                  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     |        |        |         |          |                      |                  |

| Compounds                     | QUANT<br>MASS | SIG   |       |        |                        |          | CONCENTRATIONS       |                  |
|-------------------------------|---------------|-------|-------|--------|------------------------|----------|----------------------|------------------|
|                               |               |       | RT    | EXP RT | REL RT                 | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| =====                         | =====         | ===== | ===== | =====  | =====                  | =====    | =====                |                  |
| 187 Total Benzofluoranthenes  | 252           |       |       |        | Compound Not Detected. |          |                      |                  |
| 120 2,3,4,6-Tetrachlorophenol | 232           |       |       |        | Compound Not Detected. |          |                      |                  |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 22-MAR-2023  
 Lab File ID: NT1003222306.D Calibration Time: 17:42  
 Lab Smp Id: BLC0442-BLK1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 122478   | 61239      | 244956  | 166416 | 35.87 |
| 27 Naphthalene-d8     | 459261   | 229631     | 918522  | 591408 | 28.77 |
| 42 Acenaphthene-d10   | 264106   | 132053     | 528212  | 325327 | 23.18 |
| 59 Phenanthrene-d10   | 503255   | 251628     | 1006510 | 589824 | 17.20 |
| 69 Chrysene-d12       | 437735   | 218868     | 875470  | 493010 | 12.63 |
| 134 Di-n-octylphthala | 700191   | 350096     | 1400382 | 751292 | 7.30  |
| 77 Perylene-d12       | 499049   | 249525     | 998098  | 544575 | 9.12  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.08     | 8.58     | 9.58  | 9.08   | 0.00  |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.57  | 0.00  |
| 42 Acenaphthene-d10   | 15.19    | 14.69    | 15.69 | 15.19  | 0.00  |
| 59 Phenanthrene-d10   | 18.25    | 17.75    | 18.75 | 18.25  | -0.04 |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.34  | -0.03 |
| 134 Di-n-octylphthala | 24.41    | 23.91    | 24.91 | 24.41  | -0.03 |
| 77 Perylene-d12       | 26.02    | 25.52    | 26.52 | 26.02  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222306.D

Lab ID: BLC0442-BLK1  
nt10.i, 20230322.b\ABN.m, 22-MAR-2023 20:16

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

---

NONE

RRT check based on Ccal File: NT1003222302.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*





Form I  
METHOD BLANK DATA SHEET  
EPA 8270E

Blank

Laboratory: Analytical Resources, LLC      SDG: 23A0179  
 Client: Anchor QEA, LLC      Project: AOC5 MR Phase 1  
 Matrix: Solid      Laboratory ID: BLC0442-BLK3      File ID: NT1003222321.D  
 Sampled: N/A      Prepared: 03/17/23 11:16      Analyzed: 03/23/23 05:46  
 Solids:      Preparation: EPA 3546 (Microwave)      Initial/Final: 10 g / 1 mL  
 Batch: BLC0442      Sequence: SLC0397      Calibration: GC00046  
 Instrument: NT10      Column: ZB-5MSi

| CAS NO.  | COMPOUND                    | DILUTION | CONC:<br>(ug/kg wet) | Q | DL   | RL   |
|----------|-----------------------------|----------|----------------------|---|------|------|
| 108-95-2 | Phenol                      | 1        | 20.0                 | U | 4.4  | 20.0 |
| 106-44-5 | 4-Methylphenol              | 1        | 20.0                 | U | 7.4  | 20.0 |
| 91-20-3  | Naphthalene                 | 1        | 20.0                 | U | 4.2  | 20.0 |
| 91-57-6  | 2-Methylnaphthalene         | 1        | 20.0                 | U | 4.5  | 20.0 |
| 208-96-8 | Acenaphthylene              | 1        | 20.0                 | U | 6.2  | 20.0 |
| 131-11-3 | Dimethylphthalate           | 1        | 20.0                 | U | 4.4  | 20.0 |
| 83-32-9  | Acenaphthene                | 1        | 20.0                 | U | 5.2  | 20.0 |
| 132-64-9 | Dibenzofuran                | 1        | 20.0                 | U | 14.1 | 20.0 |
| 86-73-7  | Fluorene                    | 1        | 20.0                 | U | 14.6 | 20.0 |
| 85-01-8  | Phenanthrene                | 1        | 20.0                 | U | 8.7  | 20.0 |
| 120-12-7 | Anthracene                  | 1        | 20.0                 | U | 7.2  | 20.0 |
| 206-44-0 | Fluoranthene                | 1        | 20.0                 | U | 6.1  | 20.0 |
| 129-00-0 | Pyrene                      | 1        | 20.0                 | U | 5.7  | 20.0 |
| 85-68-7  | Butylbenzylphthalate        | 1        | 20.0                 | U | 9.4  | 20.0 |
| 56-55-3  | Benzo(a)anthracene          | 1        | 20.0                 | U | 6.0  | 20.0 |
| 218-01-9 | Chrysene                    | 1        | 20.0                 | U | 6.1  | 20.0 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate  | 1        | 50.0                 | U | 5.5  | 50.0 |
|          | Benzo(a)fluoranthene, Total | 1        | 40.0                 | U | 10.0 | 40.0 |
| 50-32-8  | Benzo(a)pyrene              | 1        | 20.0                 | U | 4.2  | 20.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene      | 1        | 20.0                 | U | 14.7 | 20.0 |
| 53-70-3  | Dibenzo(a,h)anthracene      | 1        | 20.0                 | U | 17.2 | 20.0 |
| 191-24-2 | Benzo(g,h,i)perylene        | 1        | 20.0                 | U | 13.6 | 20.0 |

| SURROGATES             | ADDED:<br>(ug/kg wet) | FOUND:<br>(ug/kg wet) | % REC | QC LIMITS | Q |
|------------------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol         | 750.00                | 546                   | 72.8  | 27 - 120  |   |
| Phenol-d5              | 750.00                | 572                   | 76.3  | 29 - 120  |   |
| 2-Chlorophenol-d4      | 750.00                | 611                   | 81.5  | 31 - 120  |   |
| 1,2-Dichlorobenzene-d4 | 500.00                | 396                   | 79.2  | 32 - 120  |   |
| Nitrobenzene-d5        | 500.00                | 413                   | 82.5  | 30 - 120  |   |
| 2-Fluorobiphenyl       | 500.00                | 433                   | 86.5  | 35 - 120  |   |
| 2,4,6-Tribromophenol   | 750.00                | 694                   | 92.5  | 24 - 134  |   |
| p-Terphenyl-d14        | 500.00                | 455                   | 91.1  | 37 - 120  |   |

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222321.D

Date: 23-MAR-2023 05:46

Client ID:

Sample Info: BLC0442-BLK3

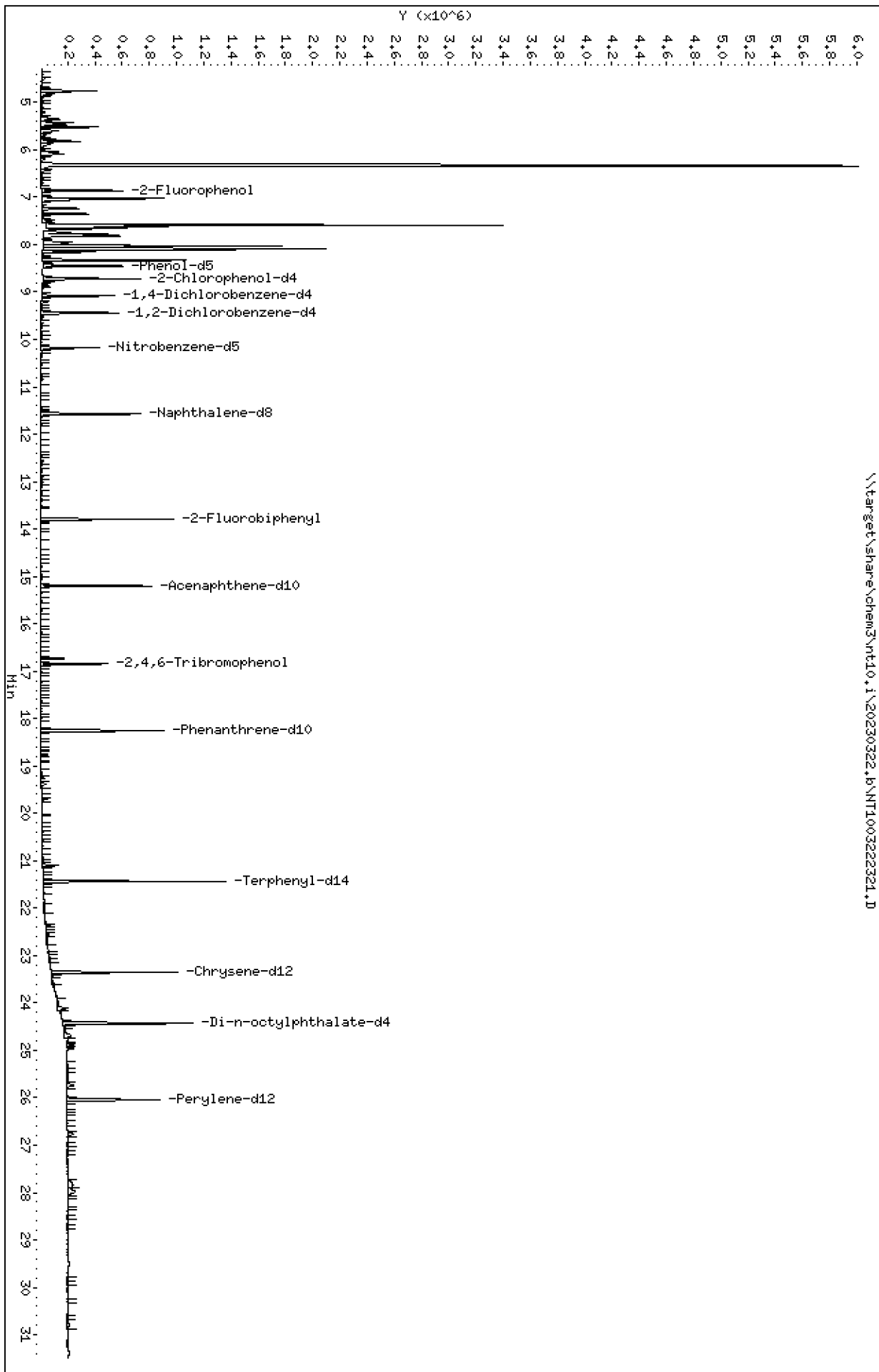
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\NT1003222321.D



Date : 23-MAR-2023 05:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BLK3

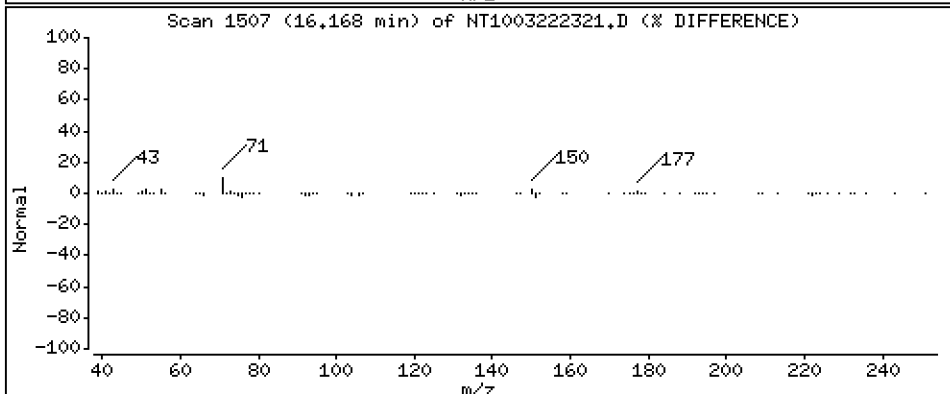
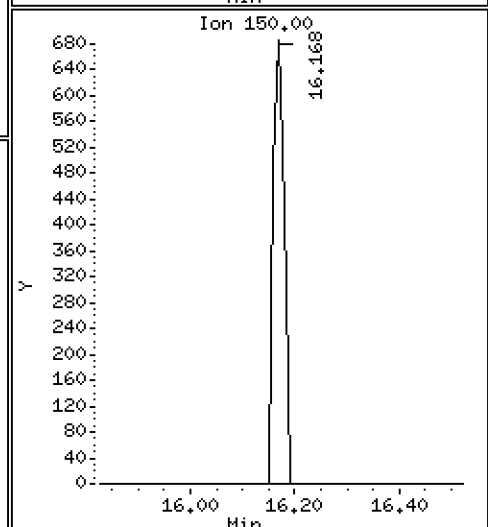
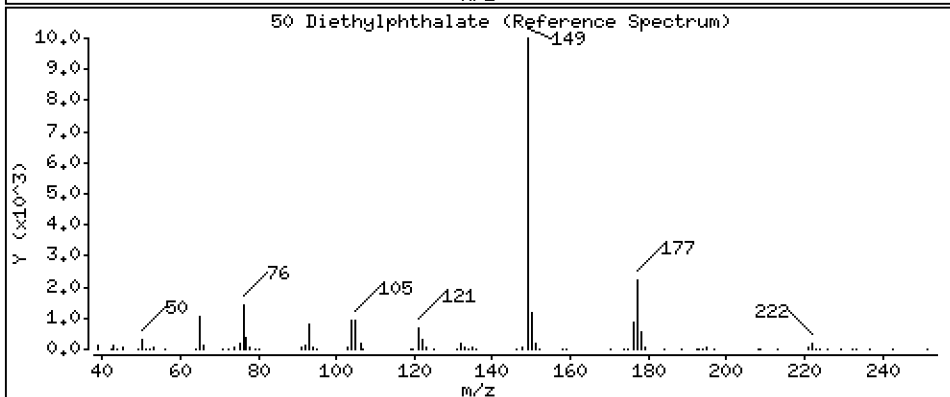
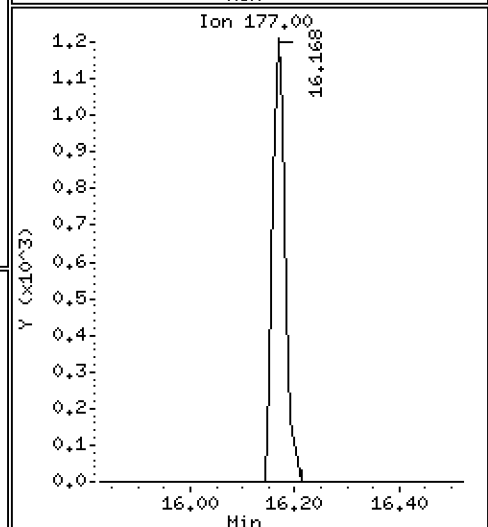
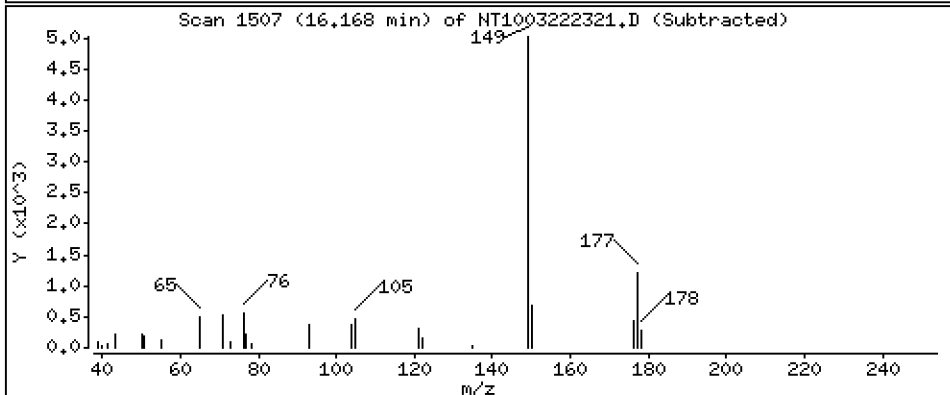
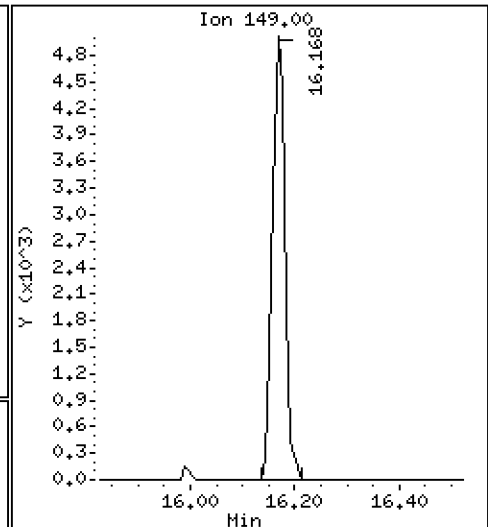
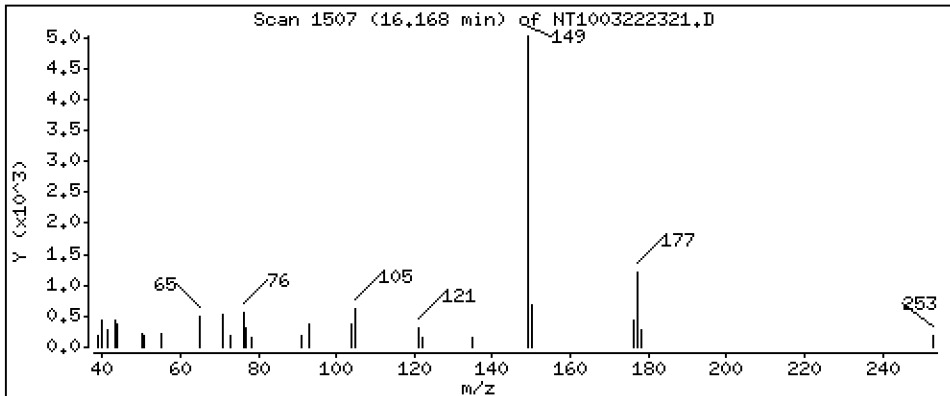
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,09664 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222321.D  
 Lab Smp Id: BLC0442-BLK3  
 Inj Date : 23-MAR-2023 05:46  
 Operator : VTS  
 Smp Info : BLC0442-BLK3  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 10:11 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 6  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |         |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|---------|
|                                 |       |     |                        |        |         |          | ON-COLUMN      | FINAL   |
|                                 | MASS  |     |                        |        |         |          | (ug/mL)        | (ug/mL) |
| \$ 1 2-Fluorophenol             | 112   |     | 6.859                  | 6.851  | (0.755) | 266772   | 5.45921        | 5.459   |
| \$ 2 Phenol-d5                  | 99    |     | 8.450                  | 8.450  | (0.930) | 366835   | 5.72237        | 5.722   |
| 3 Phenol                        | 94    |     | Compound Not Detected. |        |         |          |                |         |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.721                  | 8.721  | (0.960) | 334583   | 6.11205        | 6.112   |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | Compound Not Detected. |        |         |          |                |         |
| 6 2-Chlorophenol                | 128   |     | Compound Not Detected. |        |         |          |                |         |
| 7 1,3-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |         |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.084                  | 9.085  | (1.000) | 161589   | 4.00000        |         |
| 9 1,4-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |         |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.441                  | 9.441  | (1.039) | 155769   | 3.96230        | 3.962   |
| 12 1,2-Dichlorobenzene          | 146   |     | Compound Not Detected. |        |         |          |                |         |
| 11 Benzyl alcohol               | 108   |     | Compound Not Detected. |        |         |          |                |         |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | Compound Not Detected. |        |         |          |                |         |
| 13 2-Methylphenol               | 108   |     | Compound Not Detected. |        |         |          |                |         |
| 17 Hexachloroethane             | 117   |     | Compound Not Detected. |        |         |          |                |         |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | Compound Not Detected. |        |         |          |                |         |
| 15 4-Methylphenol               | 108   |     | Compound Not Detected. |        |         |          |                |         |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.179                 | 10.179 | (0.880) | 238273   | 4.12565        | 4.126   |
| 19 Nitrobenzene                 | 77    |     | Compound Not Detected. |        |         |          |                |         |
| 20 Isophorone                   | 82    |     | Compound Not Detected. |        |         |          |                |         |
| 21 2-Nitrophenol                | 139   |     | Compound Not Detected. |        |         |          |                |         |
| 22 2,4-Dimethylphenol           | 107   |     | Compound Not Detected. |        |         |          |                |         |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | Compound Not Detected. |        |         |          |                |         |
| 24 Benzoic acid                 | 105   |     | Compound Not Detected. |        |         |          |                |         |
| 25 2,4-Dichlorophenol           | 162   |     | Compound Not Detected. |        |         |          |                |         |
| 26 1,2,4-Trichlorobenzene       | 180   |     | Compound Not Detected. |        |         |          |                |         |
| * 27 Naphthalene-d8             | 136   |     | 11.572                 | 11.572 | (1.000) | 572184   | 4.00000        |         |
| 28 Naphthalene                  | 128   |     | Compound Not Detected. |        |         |          |                |         |
| 29 4-Chloroaniline              | 127   |     | Compound Not Detected. |        |         |          |                |         |
| 30 Hexachlorobutadiene          | 225   |     | Compound Not Detected. |        |         |          |                |         |
| 31 4-Chloro-3-methylphenol      | 107   |     | Compound Not Detected. |        |         |          |                |         |
| 32 2-Methylnaphthalene          | 142   |     | Compound Not Detected. |        |         |          |                |         |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                |         |

| Compounds                         | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
|                                   |       |     |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     |        |        |         |          |                      |                  |
| \$ 36 2-Fluorobiphenyl            | 172   |     | 13.800 | 13.800 | (0.908) | 540075   | 4.32632              | 4.326            |
| 37 2-Chloronaphthalene            | 162   |     |        |        |         |          |                      |                  |
| 38 2-Nitroaniline                 | 65    |     |        |        |         |          |                      |                  |
| 39 Dimethylphthalate              | 163   |     |        |        |         |          |                      |                  |
| 40 Acenaphthylene                 | 152   |     |        |        |         |          |                      |                  |
| 41 2,6-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| * 42 Acenaphthene-d10             | 164   |     | 15.201 | 15.201 | (1.000) | 315580   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 44 Acenaphthene                   | 153   |     |        |        |         |          |                      |                  |
| 45 2,4-Dinitrophenol              | 184   |     |        |        |         |          |                      |                  |
| 46 Dibenzofuran                   | 168   |     |        |        |         |          |                      |                  |
| 47 4-Nitrophenol                  | 109   |     |        |        |         |          |                      |                  |
| 48 2,4-Dinitrotoluene             | 165   |     |        |        |         |          |                      |                  |
| 50 Diethylphthalate               | 149   |     | 16.167 | 16.175 | (1.064) | 9721     | 0.09664              | 0.09664          |
| 49 Fluorene                       | 166   |     |        |        |         |          |                      |                  |
| 51 4-Chlorophenyl-phenylether     | 204   |     |        |        |         |          |                      |                  |
| 52 4-Nitroaniline                 | 138   |     |        |        |         |          |                      |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     |        |        |         |          |                      |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     |        |        |         |          |                      |                  |
| \$ 55 2,4,6-Tribromophenol        | 330   |     | 16.846 | 16.846 | (1.108) | 102054   | 6.93615              | 6.936            |
| 56 4-Bromophenyl-phenylether      | 248   |     |        |        |         |          |                      |                  |
| 57 Hexachlorobenzene              | 284   |     |        |        |         |          |                      |                  |
| 58 Pentachlorophenol              | 266   |     |        |        |         |          |                      |                  |
| * 59 Phenanthrene-d10             | 188   |     | 18.253 | 18.260 | (1.000) | 596777   | 4.00000              |                  |
| 60 Phenanthrene                   | 178   |     |        |        |         |          |                      |                  |
| 61 Anthracene                     | 178   |     |        |        |         |          |                      |                  |
| 62 Carbazole                      | 167   |     |        |        |         |          |                      |                  |
| 63 Di-n-butylphthalate            | 149   |     |        |        |         |          |                      |                  |
| 64 Fluoranthene                   | 202   |     |        |        |         |          |                      |                  |
| 65 Pyrene                         | 202   |     |        |        |         |          |                      |                  |
| \$ 66 Terphenyl-d14               | 244   |     | 21.433 | 21.433 | (0.918) | 711553   | 4.55367              | 4.554            |
| 67 Butylbenzylphthalate           | 149   |     |        |        |         |          |                      |                  |
| 68 Benzo(a)anthracene             | 228   |     |        |        |         |          |                      |                  |
| * 69 Chrysene-d12                 | 240   |     | 23.353 | 23.353 | (1.000) | 504797   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     |        |        |         |          |                      |                  |
| 71 Chrysene                       | 228   |     |        |        |         |          |                      |                  |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     |        |        |         |          |                      |                  |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 24.429 | 24.421 | (1.000) | 820765   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149   |     |        |        |         |          |                      |                  |
| 74 Benzo(b)fluoranthene           | 252   |     |        |        |         |          |                      |                  |
| 75 Benzo(k)fluoranthene           | 252   |     |        |        |         |          |                      |                  |
| 76 Benzo(a)pyrene                 | 252   |     |        |        |         |          |                      |                  |
| * 77 Perylene-d12                 | 264   |     | 26.039 | 26.040 | (1.000) | 587644   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     |        |        |         |          |                      |                  |
| 79 Dibenzo(a,h)anthracene         | 278   |     |        |        |         |          |                      |                  |
| 80 Benzo(g,h,i)perylene           | 276   |     |        |        |         |          |                      |                  |
| 90 N-Nitrosodimethylamine         | 74    |     |        |        |         |          |                      |                  |
| 91 Aniline                        | 93    |     |        |        |         |          |                      |                  |
| 93 Benzidine                      | 184   |     |        |        |         |          |                      |                  |
| 103 Pyridine                      | 79    |     |        |        |         |          |                      |                  |
| 105 1-methylnaphthalene           | 142   |     |        |        |         |          |                      |                  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     |        |        |         |          |                      |                  |

| Compounds                     | QUANT<br>MASS | SIG   | RT    | EXP RT | REL RT                 | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|---------------|-------|-------|--------|------------------------|----------|----------------------|------------------|
|                               |               |       |       |        |                        |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| =====                         | =====         | ===== | ===== | =====  | =====                  | =====    | =====                |                  |
| 187 Total Benzofluoranthenes  | 252           |       |       |        | Compound Not Detected. |          |                      |                  |
| 120 2,3,4,6-Tetrachlorophenol | 232           |       |       |        | Compound Not Detected. |          |                      |                  |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-MAR-2023  
 Lab File ID: NT1003222321.D Calibration Time: 03:15  
 Lab Smp Id: BLC0442-BLK3  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 137603   | 68802      | 275206  | 161589 | 17.43 |
| 27 Naphthalene-d8     | 494588   | 247294     | 989176  | 572184 | 15.69 |
| 42 Acenaphthene-d10   | 278674   | 139337     | 557348  | 315580 | 13.24 |
| 59 Phenanthrene-d10   | 509229   | 254615     | 1018458 | 596777 | 17.19 |
| 69 Chrysene-d12       | 462271   | 231136     | 924542  | 504797 | 9.20  |
| 134 Di-n-octylphthala | 782572   | 391286     | 1565144 | 820765 | 4.88  |
| 77 Perylene-d12       | 551153   | 275577     | 1102306 | 587644 | 6.62  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.09     | 8.59     | 9.59  | 9.08   | -0.00 |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.57  | -0.00 |
| 42 Acenaphthene-d10   | 15.20    | 14.70    | 15.70 | 15.20  | -0.00 |
| 59 Phenanthrene-d10   | 18.26    | 17.76    | 18.76 | 18.25  | -0.04 |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.35  | -0.00 |
| 134 Di-n-octylphthala | 24.42    | 23.92    | 24.92 | 24.43  | 0.03  |
| 77 Perylene-d12       | 26.04    | 25.54    | 26.54 | 26.04  | -0.00 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222321.D

Lab ID: BLC0442-BLK3  
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 05:46

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

---

NONE

RRT check based on Ccal File: NT1003222317.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*





**LCS / LCS DUPLICATE RECOVERY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Analyzed: 03/01/23 17:16

Batch: BLA0557

Laboratory ID: BLA0557-BS1

Preparation: EPA 3546 (Microwave)

Sequence Name: LCS

Initial/Final: 10 g / 1 mL

| COMPOUND                   | SPIKE ADDED (ug/kg wet) | LCS CONCENTRATION (ug/kg wet) | Q    | LCS % REC. # | QC LIMITS REC. |
|----------------------------|-------------------------|-------------------------------|------|--------------|----------------|
| Phenol                     | 500                     | 463                           | B    | 92.6         | 34 - 120       |
| 4-Methylphenol             | 500                     | 368                           |      | 73.6         | 29 - 120       |
| Naphthalene                | 500                     | 392                           |      | 78.4         | 43 - 120       |
| 2-Methylnaphthalene        | 500                     | 383                           |      | 76.6         | 43 - 120       |
| Acenaphthylene             | 500                     | 408                           |      | 81.5         | 42 - 120       |
| Dimethylphthalate          | 500                     | 506                           |      | 101          | 43 - 120       |
| Acenaphthene               | 500                     | 409                           |      | 81.8         | 45 - 120       |
| Dibenzofuran               | 500                     | 407                           |      | 81.5         | 43 - 120       |
| Fluorene                   | 500                     | 415                           |      | 82.9         | 45 - 120       |
| Phenanthrene               | 500                     | 446                           |      | 89.2         | 49 - 120       |
| Anthracene                 | 500                     | 382                           |      | 76.4         | 45 - 120       |
| Fluoranthene               | 500                     | 489                           |      | 97.9         | 53 - 145       |
| Pyrene                     | 500                     | 459                           |      | 91.8         | 52 - 134       |
| Butylbenzylphthalate       | 500                     | 566                           |      | 113          | 45 - 132       |
| Benzo(a)anthracene         | 500                     | 465                           |      | 93.0         | 49 - 120       |
| Chrysene                   | 500                     | 456                           |      | 91.1         | 47 - 120       |
| bis(2-Ethylhexyl)phthalate | 500                     | 486                           |      | 97.3         | 34 - 130       |
| Benzofluoranthenes, Total  | 1000                    | 948                           |      | 94.8         | 30 - 160       |
| Benzo(a)pyrene             | 500                     | 425                           |      | 85.1         | 42 - 120       |
| Indeno(1,2,3-cd)pyrene     | 500                     | 281                           | Q    | 56.3         | 42 - 163       |
| Dibenzo(a,h)anthracene     | 500                     | 310                           | Q    | 62.0         | 30 - 133       |
| Benzo(g,h,i)perylene       | 500                     | 208                           | *, Q | 41.6         | * 46 - 148     |

\* Indicates values outside of QC limits

| COMPOUND            | SPIKE ADDED (ug/kg wet) | LCSD CONCENTRATION (ug/kg wet) | Q | LCSD % REC. # | % RPD # | QC LIMITS |          |
|---------------------|-------------------------|--------------------------------|---|---------------|---------|-----------|----------|
|                     |                         |                                |   |               |         | RPD       | REC.     |
| Phenol              | 500                     | 480                            | B | 96.1          | 3.65    | 30        | 34 - 120 |
| 4-Methylphenol      | 500                     | 405                            |   | 80.9          | 9.47    | 30        | 29 - 120 |
| Naphthalene         | 500                     | 428                            |   | 85.7          | 8.93    | 30        | 43 - 120 |
| 2-Methylnaphthalene | 500                     | 422                            |   | 84.4          | 9.70    | 30        | 43 - 120 |
| Acenaphthylene      | 500                     | 447                            |   | 89.4          | 9.19    | 30        | 42 - 120 |
| Dimethylphthalate   | 500                     | 539                            |   | 108           | 6.34    | 30        | 43 - 120 |
| Acenaphthene        | 500                     | 458                            |   | 91.6          | 11.3    | 30        | 45 - 120 |

\* Indicates values outside of QC limits



**LCS / LCS DUPLICATE RECOVERY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Analyzed: 03/01/23 17:52

Batch: BLA0557

Laboratory ID: BLA0557-BSD1

Preparation: EPA 3546 (Microwave)

Sequence Name: LCS Dup

Initial/Final: 10 g / 1 mL

| COMPOUND                    | SPIKE<br>ADDED<br>(ug/kg wet) | LCS D<br>CONCENTRATION<br>(ug/kg wet) | Q    | LCS D<br>%<br>REC. # | %<br>RPD # | QC LIMITS |          |
|-----------------------------|-------------------------------|---------------------------------------|------|----------------------|------------|-----------|----------|
|                             |                               |                                       |      |                      |            | RPD       | REC.     |
| Dibenzofuran                | 500                           | 452                                   |      | 90.3                 | 10.3       | 30        | 43 - 120 |
| Fluorene                    | 500                           | 462                                   |      | 92.4                 | 10.8       | 30        | 45 - 120 |
| Phenanthrene                | 500                           | 468                                   |      | 93.7                 | 4.89       | 30        | 49 - 120 |
| Anthracene                  | 500                           | 408                                   |      | 81.5                 | 6.47       | 30        | 45 - 120 |
| Fluoranthene                | 500                           | 512                                   |      | 102                  | 4.59       | 30        | 53 - 145 |
| Pyrene                      | 500                           | 506                                   |      | 101                  | 9.66       | 30        | 52 - 134 |
| Butylbenzylphthalate        | 500                           | 597                                   |      | 119                  | 5.32       | 30        | 45 - 132 |
| Benzo(a)anthracene          | 500                           | 495                                   |      | 99.0                 | 6.28       | 30        | 49 - 120 |
| Chrysene                    | 500                           | 484                                   |      | 96.7                 | 5.99       | 30        | 47 - 120 |
| bis(2-Ethylhexyl)phthalate  | 500                           | 522                                   |      | 104                  | 7.03       | 30        | 34 - 130 |
| Benzo(b)fluoranthene, Total | 1000                          | 1020                                  |      | 102                  | 7.31       | 30        | 30 - 160 |
| Benzo(a)pyrene              | 500                           | 472                                   |      | 94.5                 | 10.5       | 30        | 42 - 120 |
| Indeno(1,2,3-cd)pyrene      | 500                           | 306                                   | Q    | 61.1                 | 8.25       | 30        | 42 - 163 |
| Dibenzo(a,h)anthracene      | 500                           | 334                                   | Q    | 66.9                 | 7.59       | 30        | 30 - 133 |
| Benzo(g,h,i)perylene        | 500                           | 224                                   | *, Q | 44.9                 | * 7.65     | 30        | 46 - 148 |

\* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022827.D

Date: 01-MAR-2023 17:16

Client ID:

Sample Info: BLR0557-BS1

Page 1

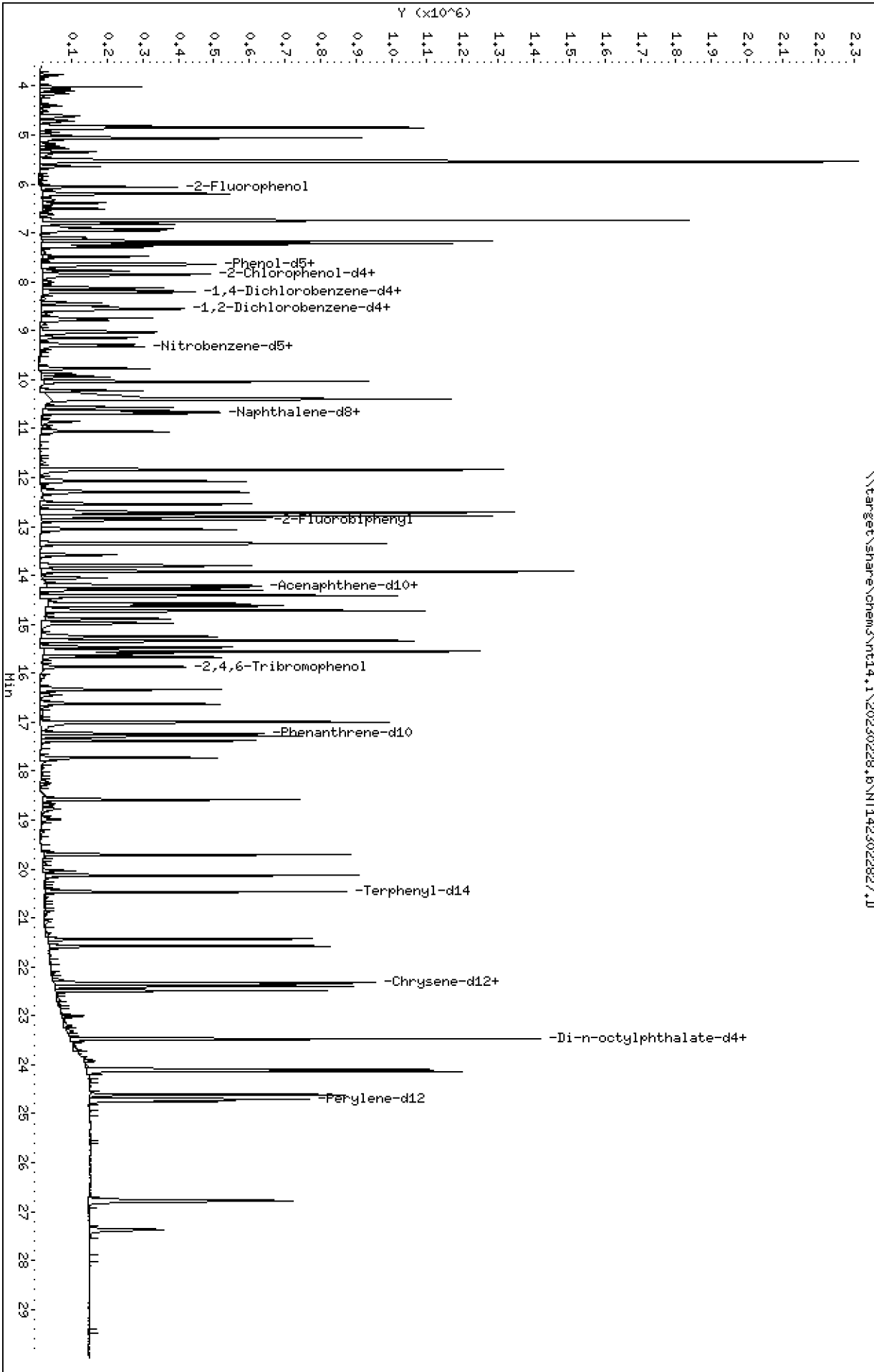
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

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Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

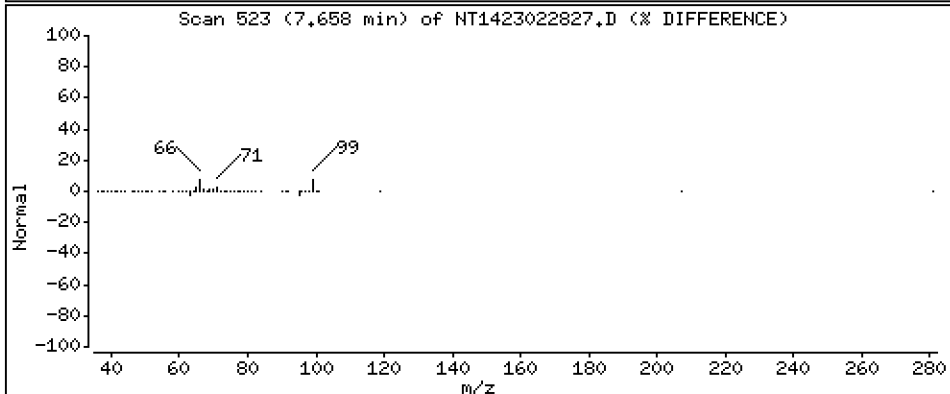
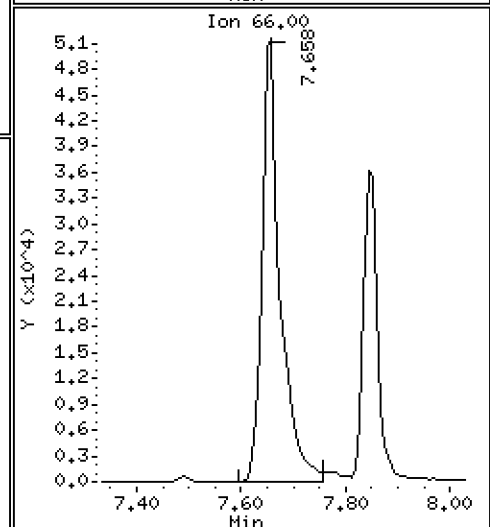
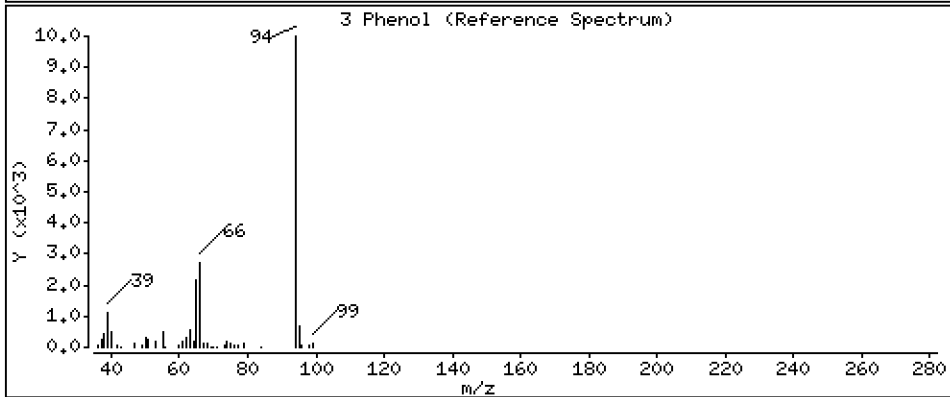
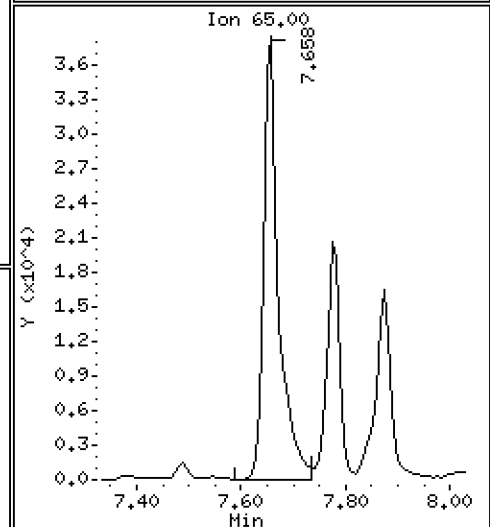
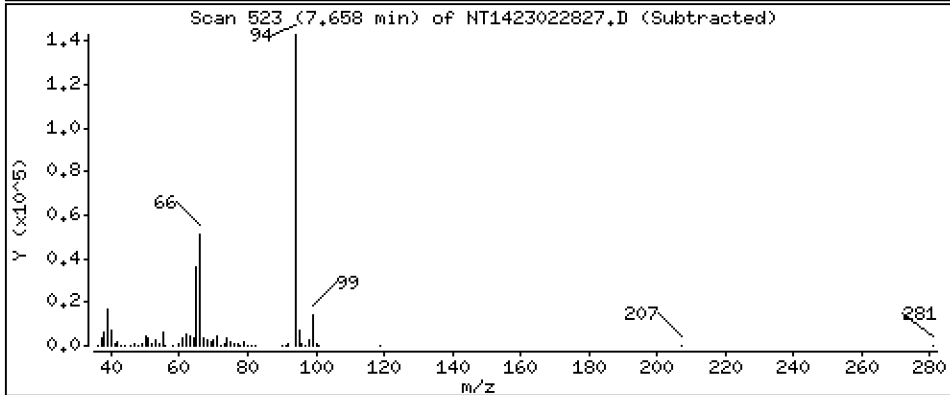
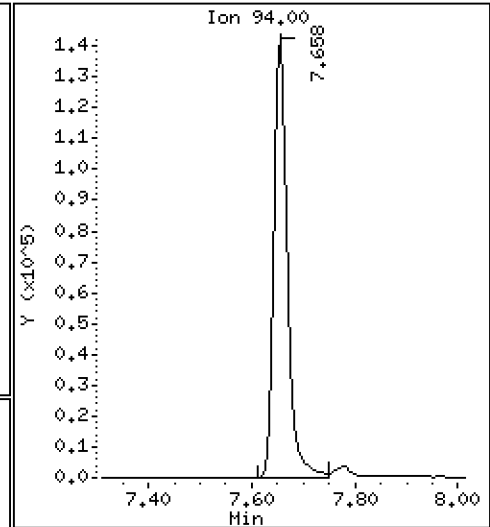
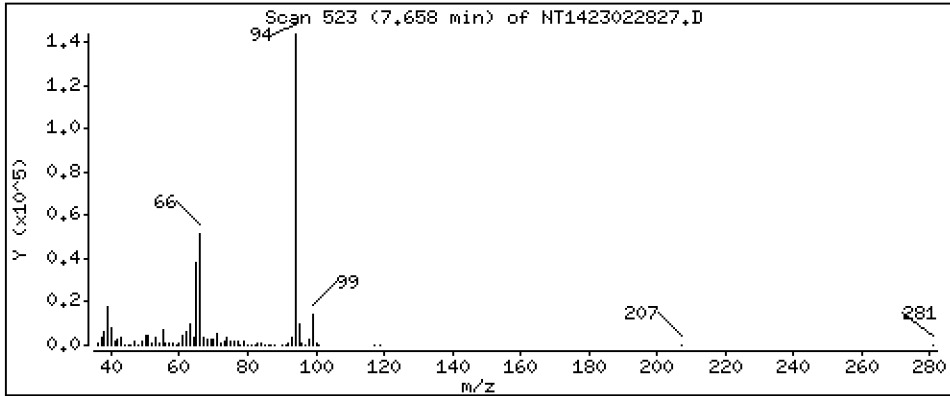
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 4,632 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

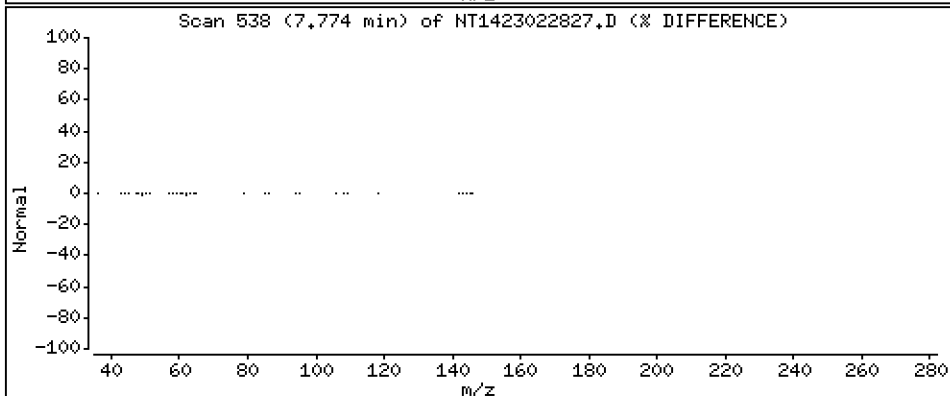
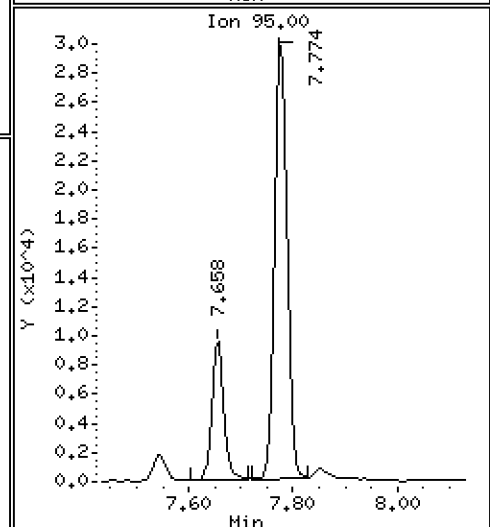
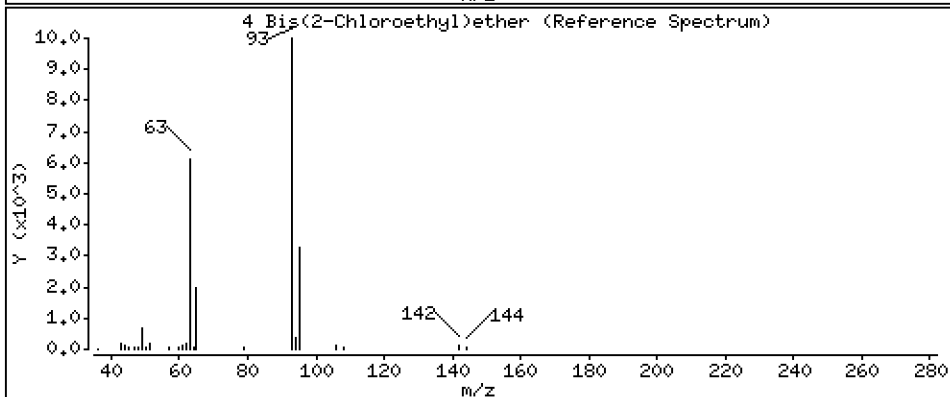
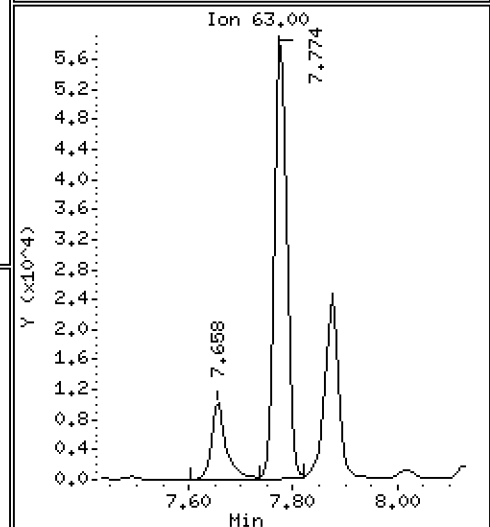
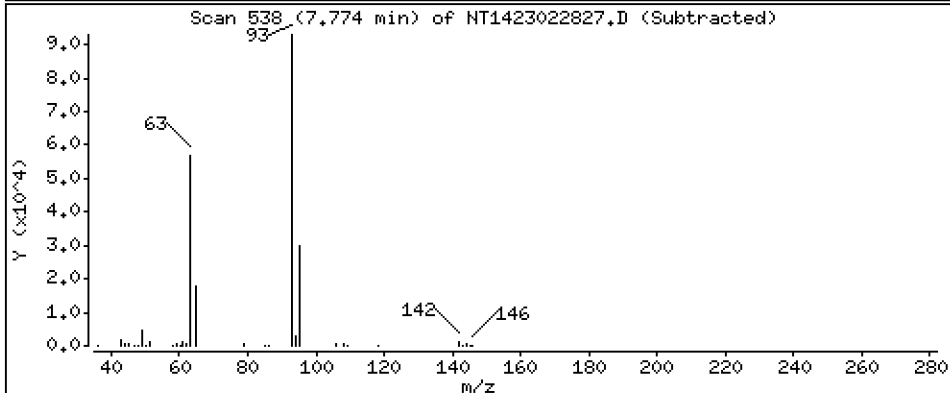
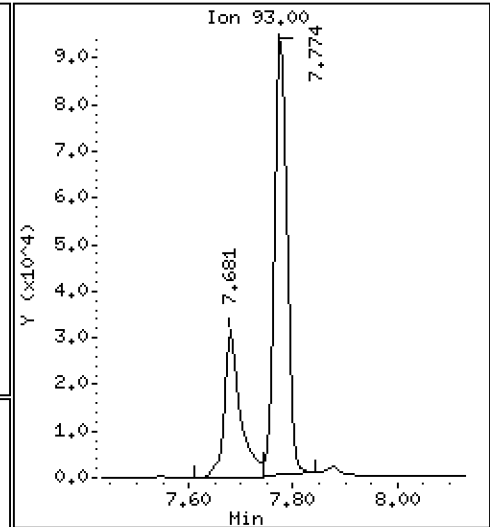
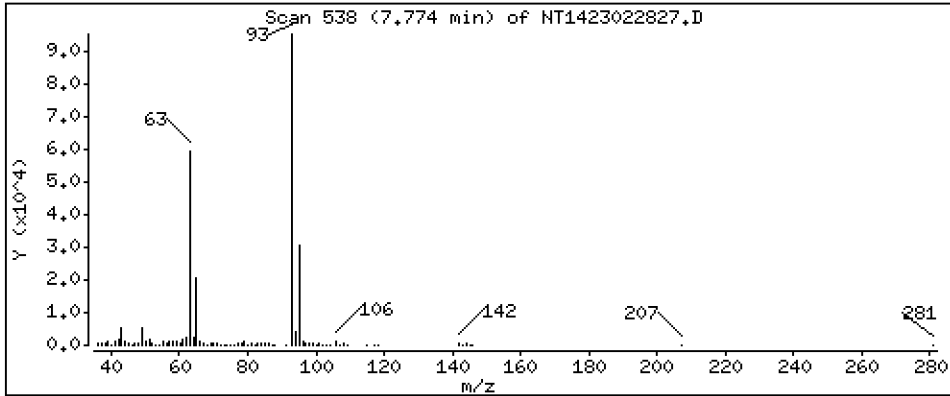
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,174 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

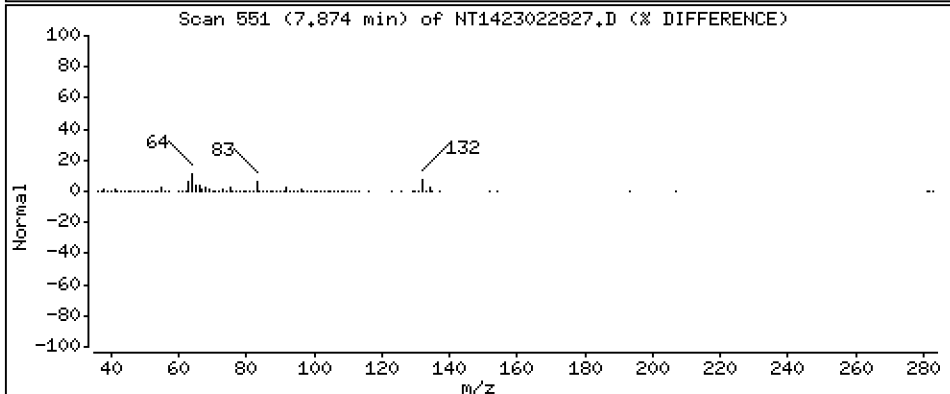
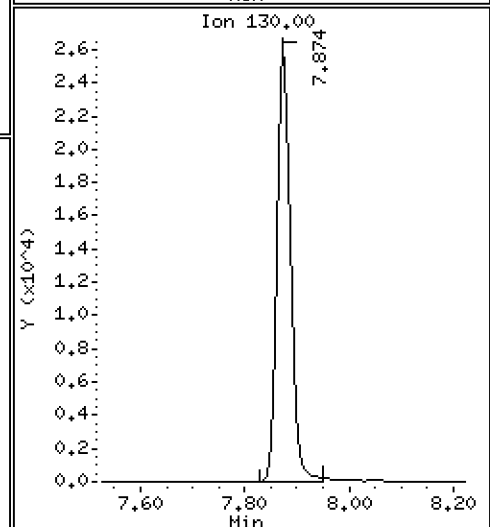
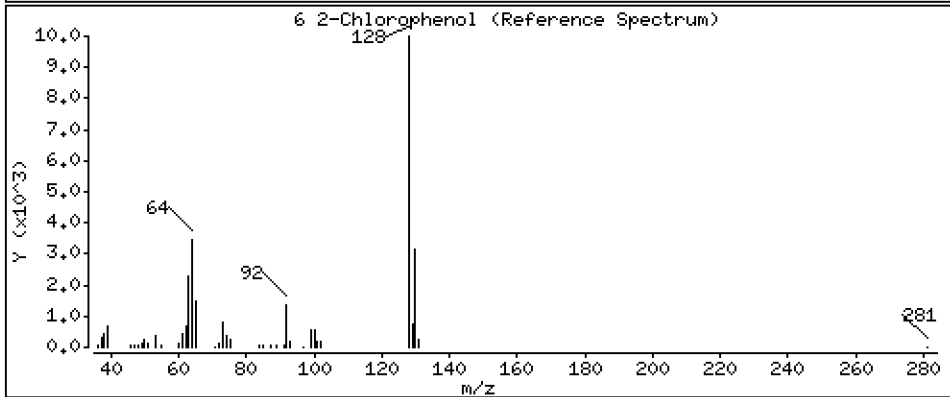
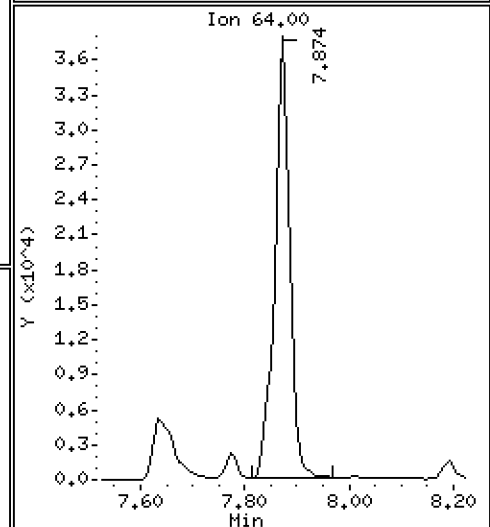
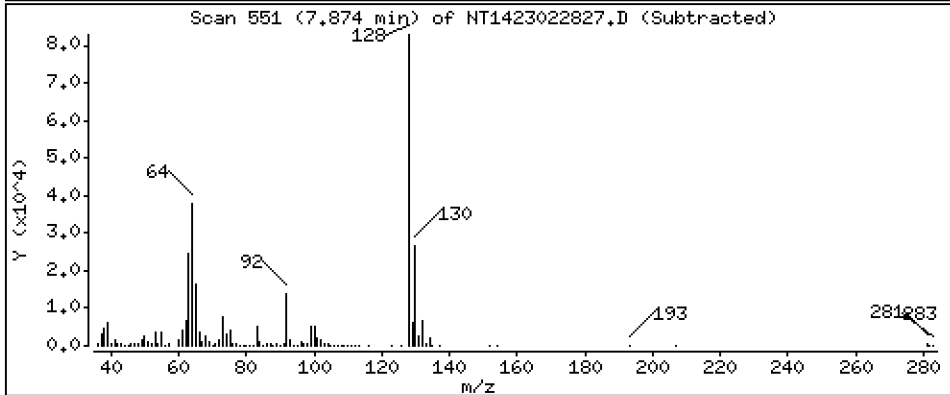
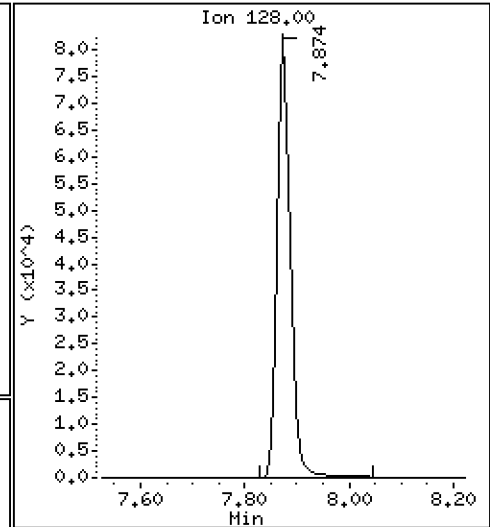
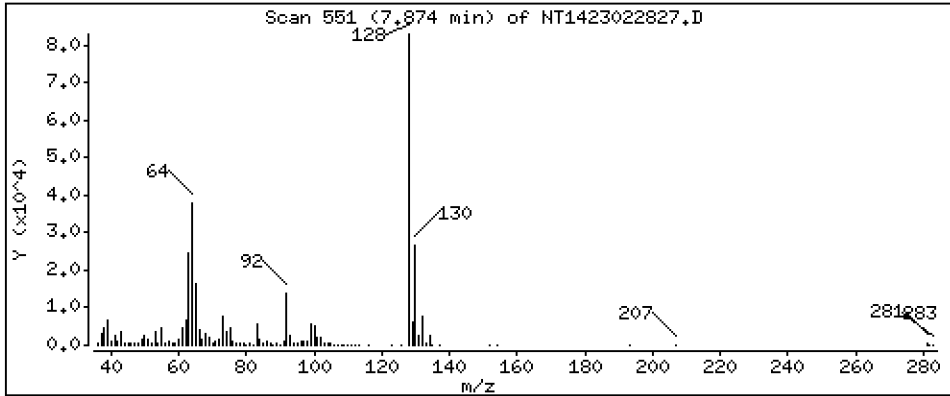
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 3,904 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

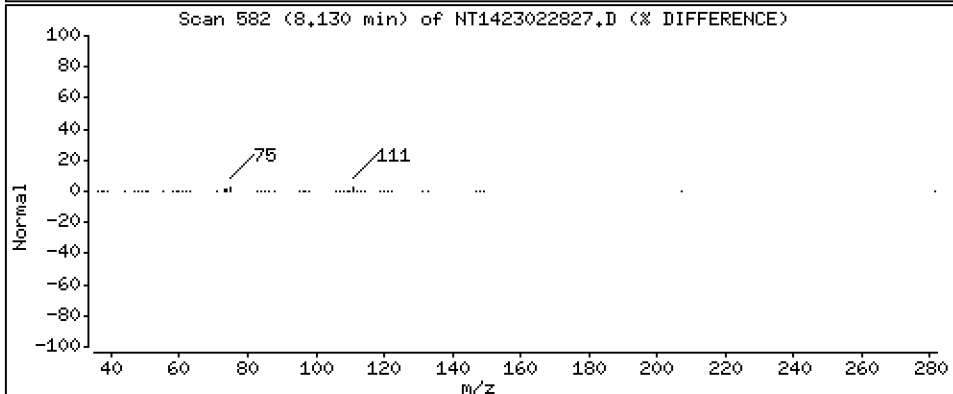
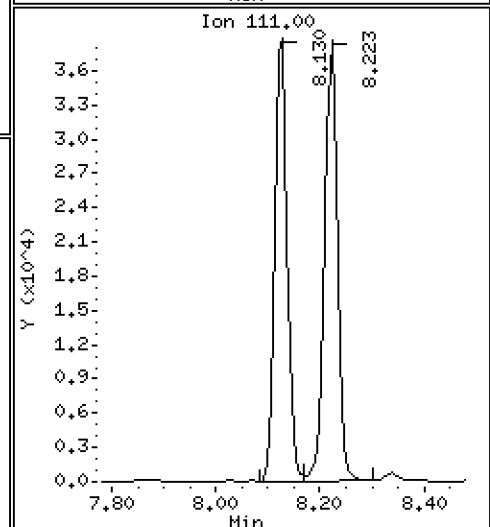
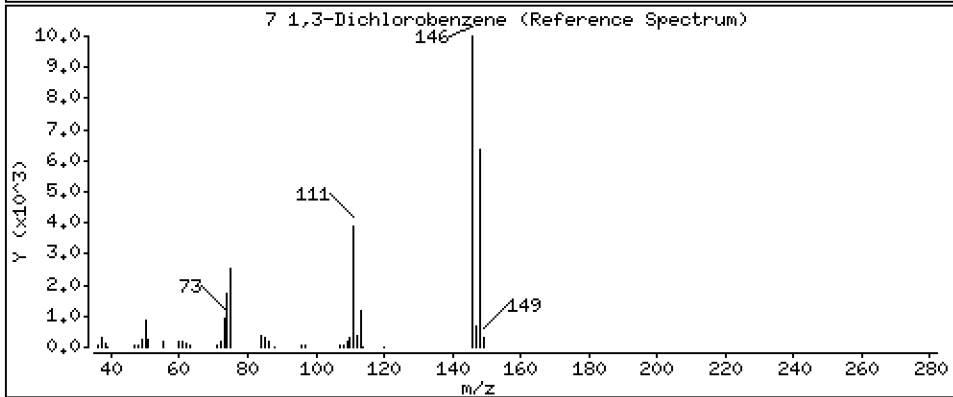
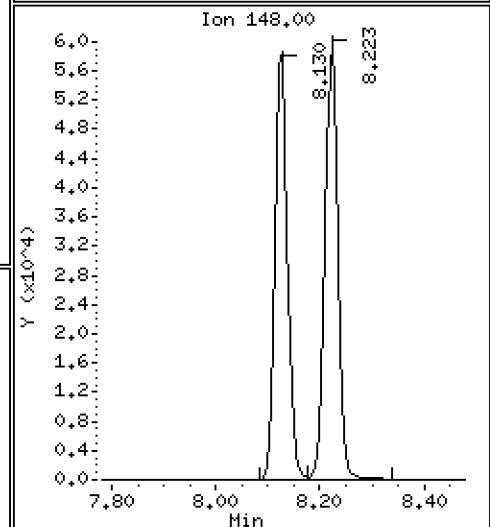
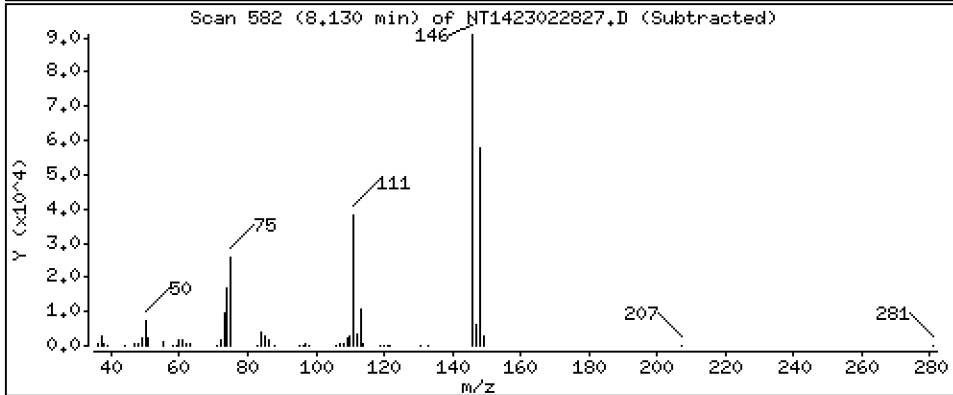
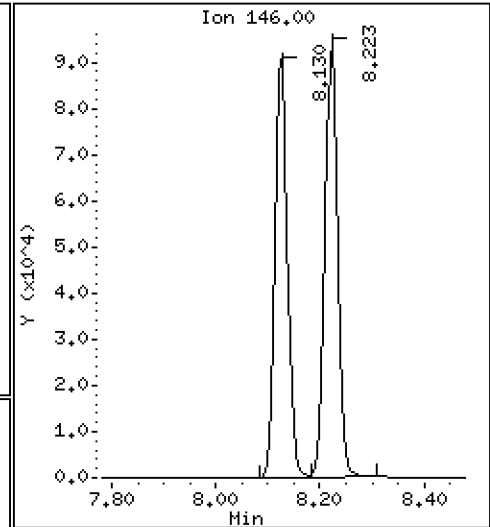
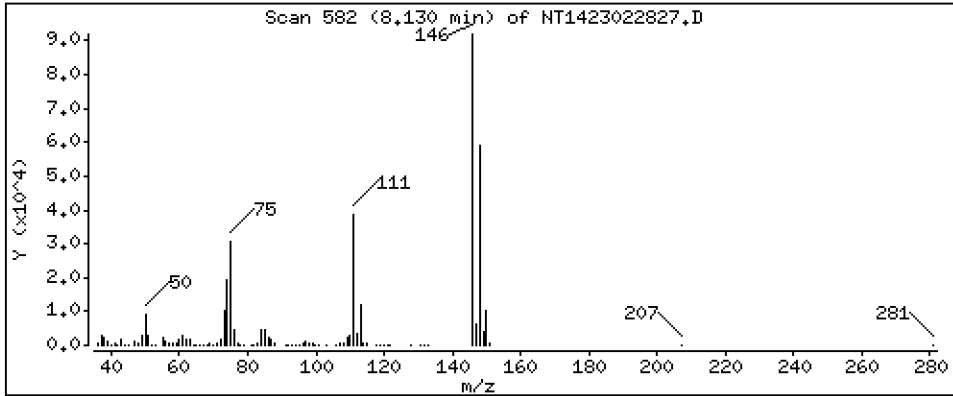
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 3,557 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

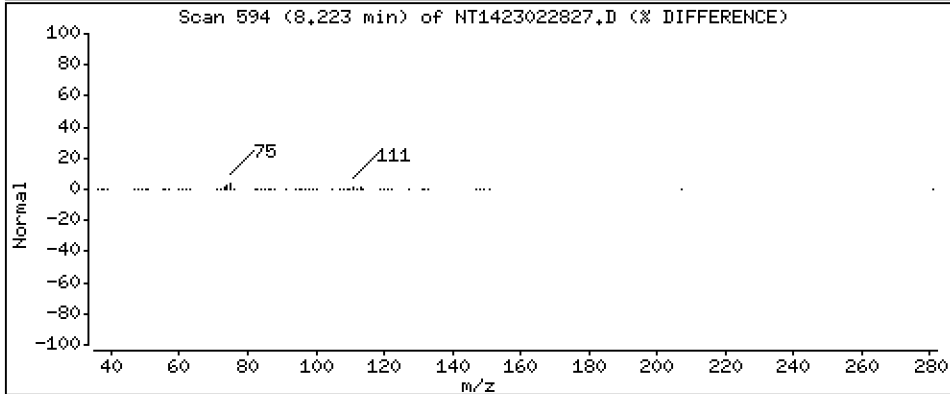
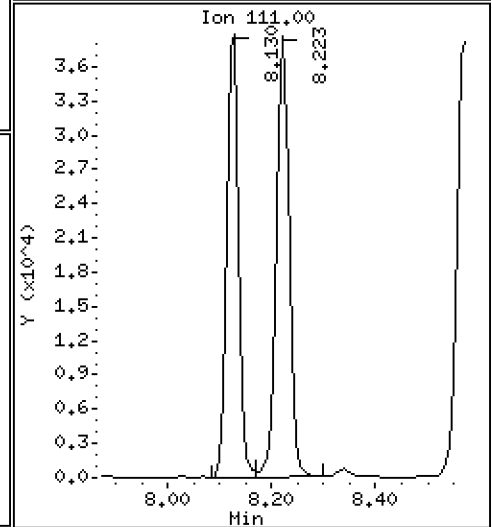
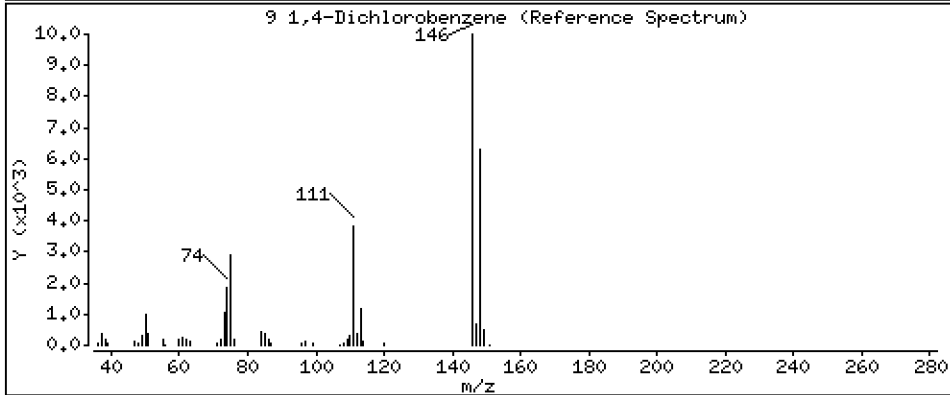
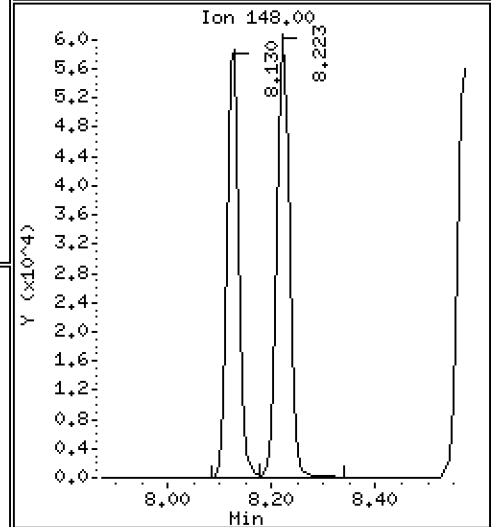
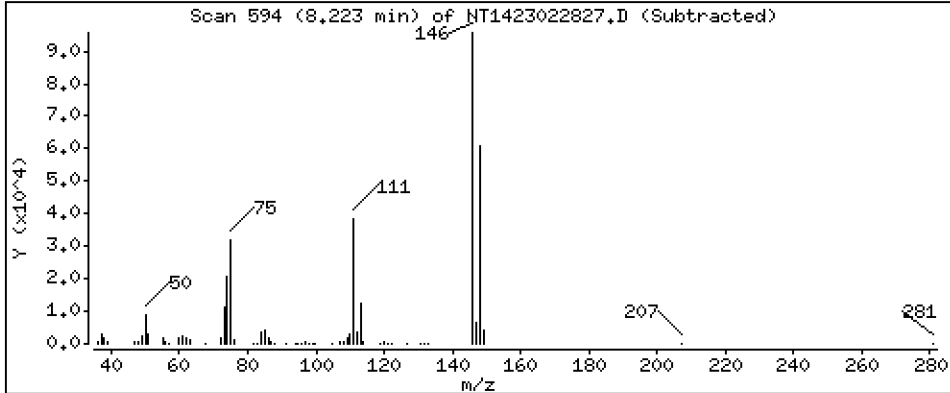
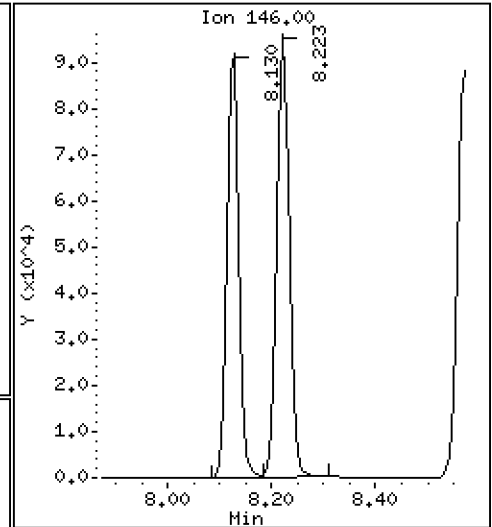
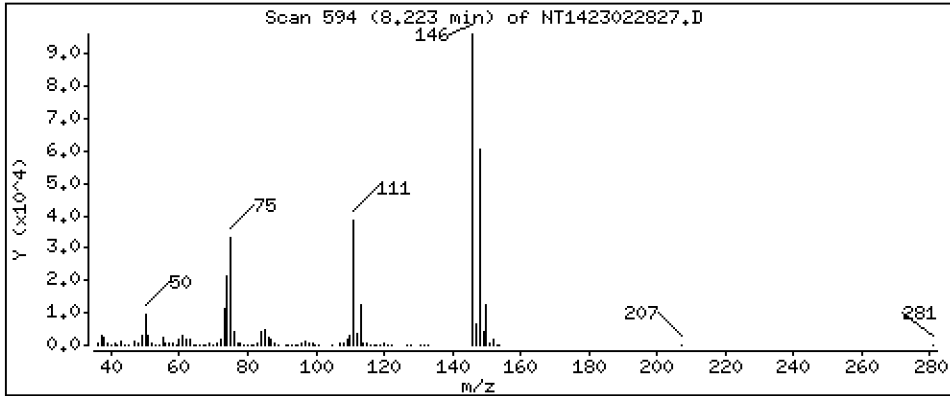
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 3,555 ug/mL





Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

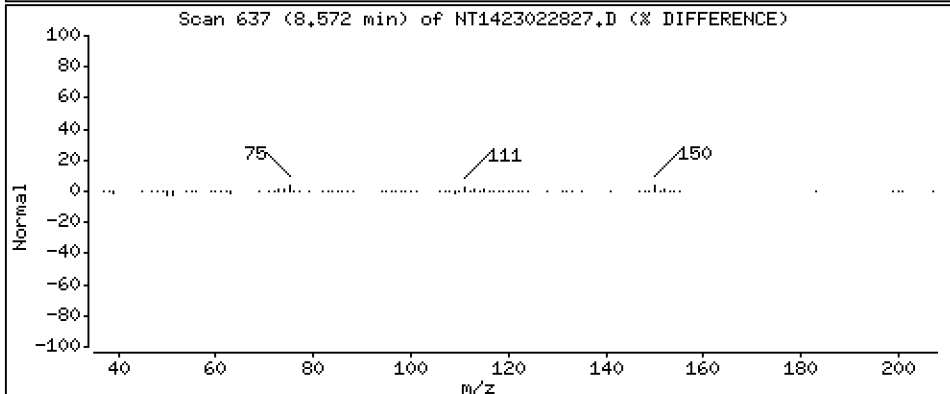
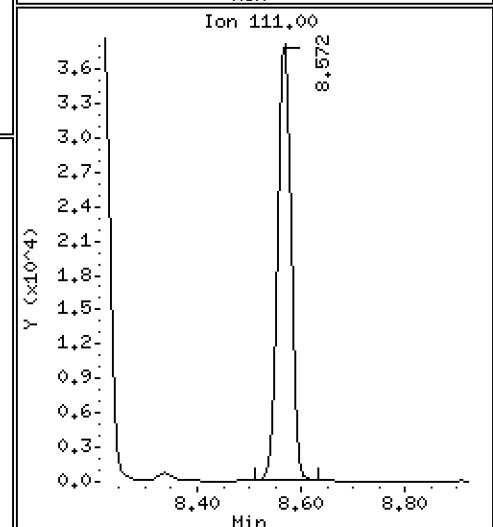
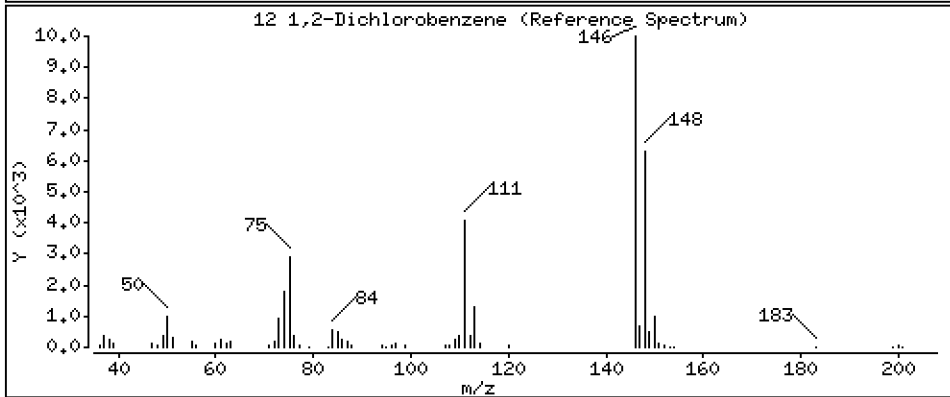
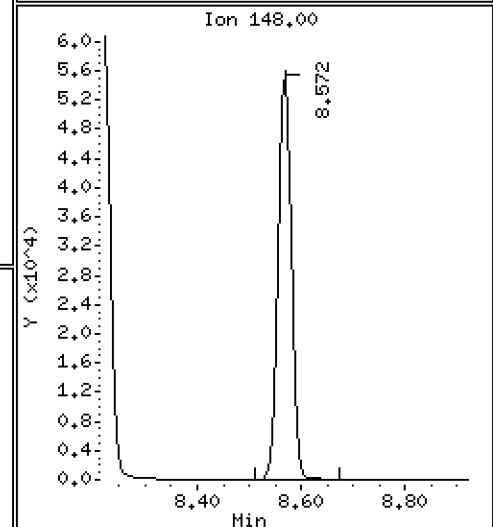
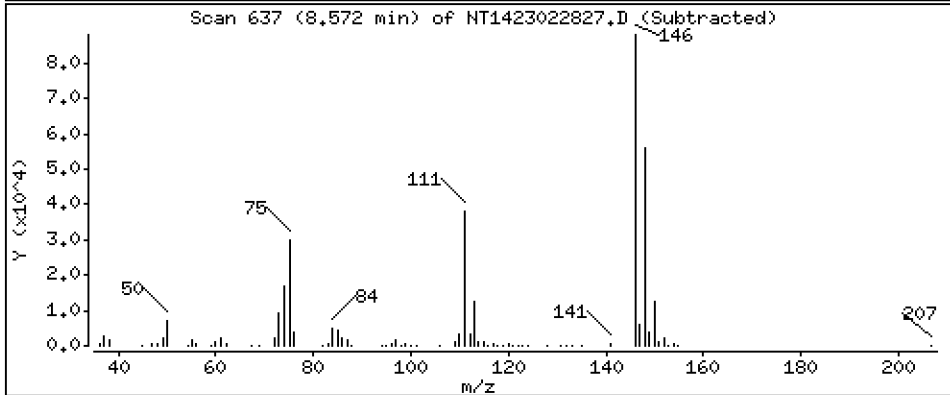
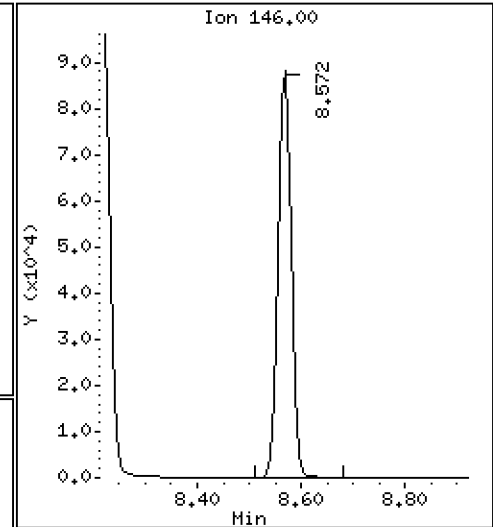
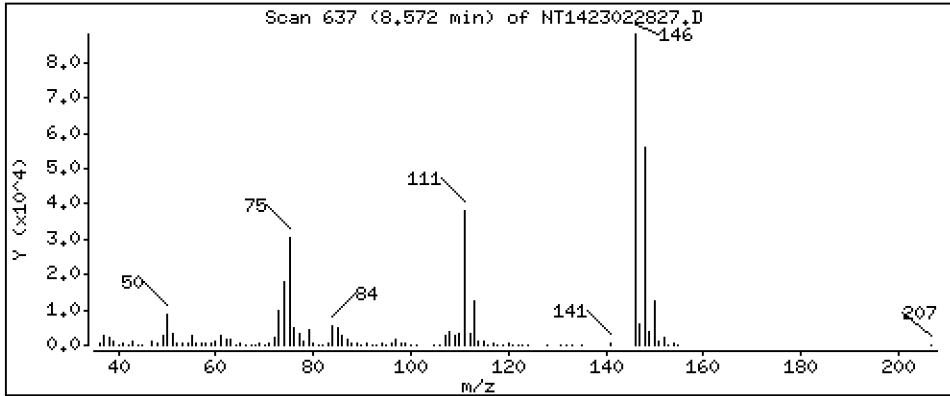
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 3,653 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

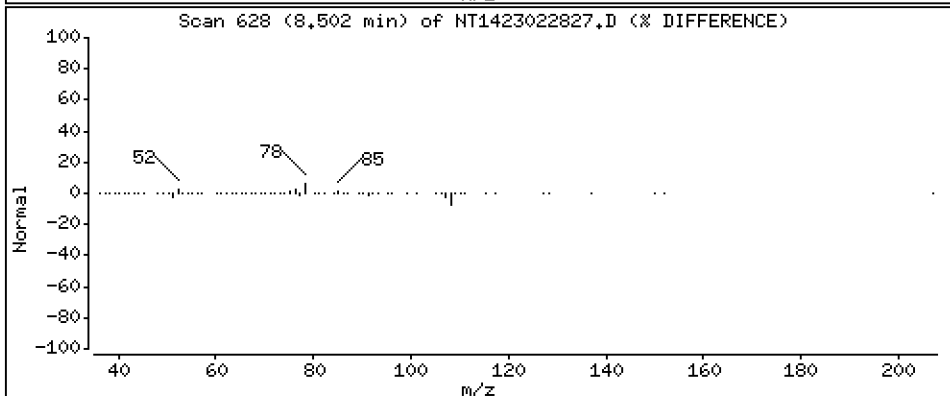
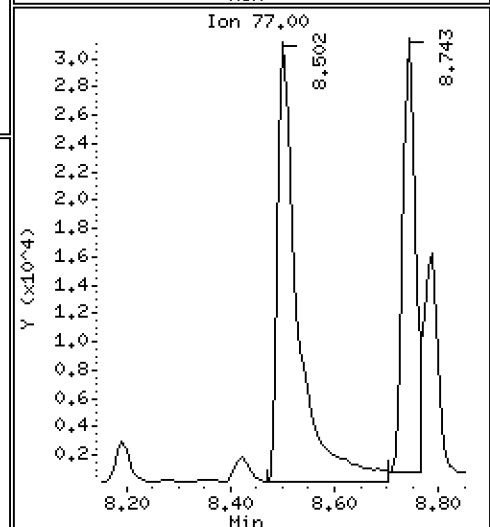
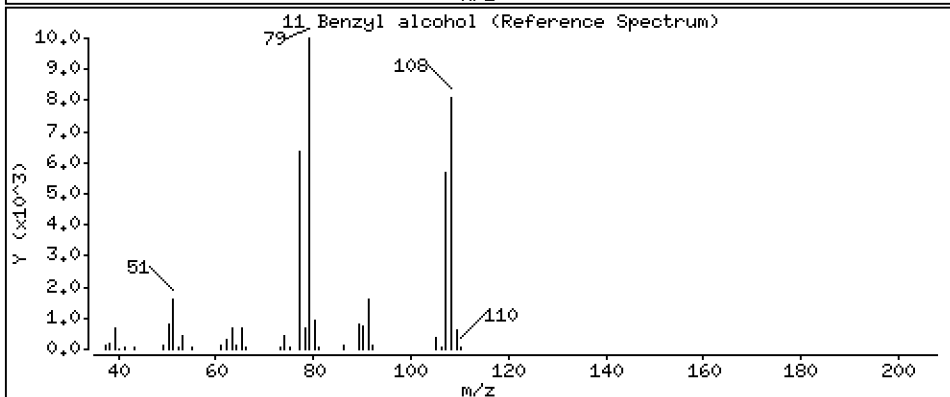
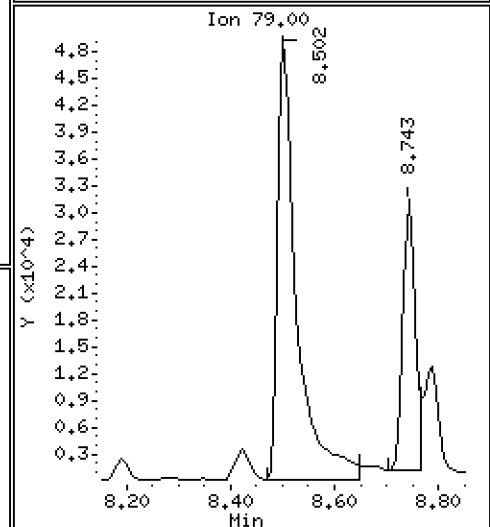
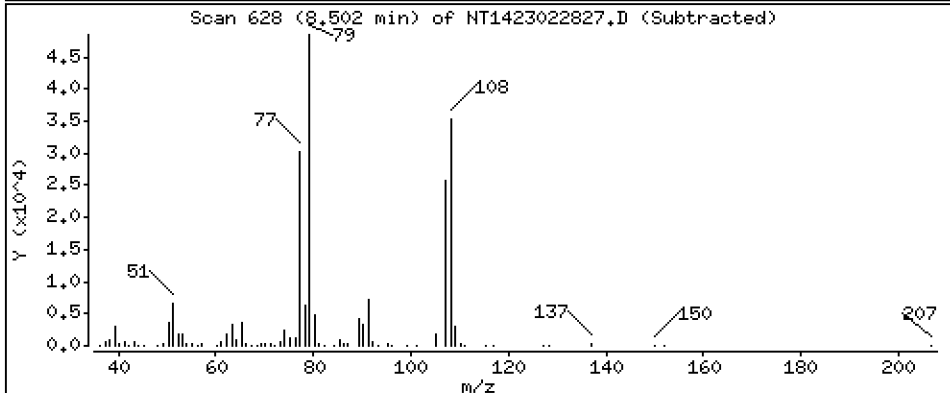
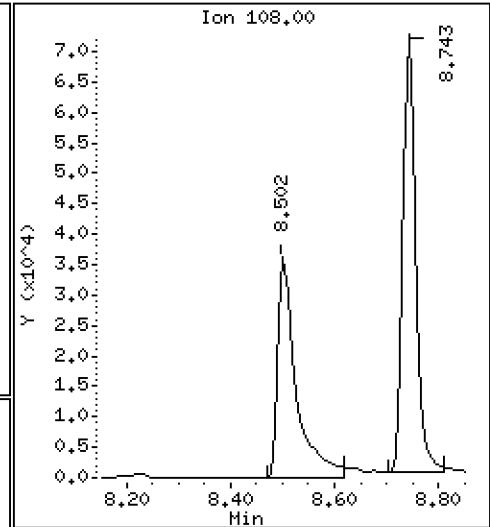
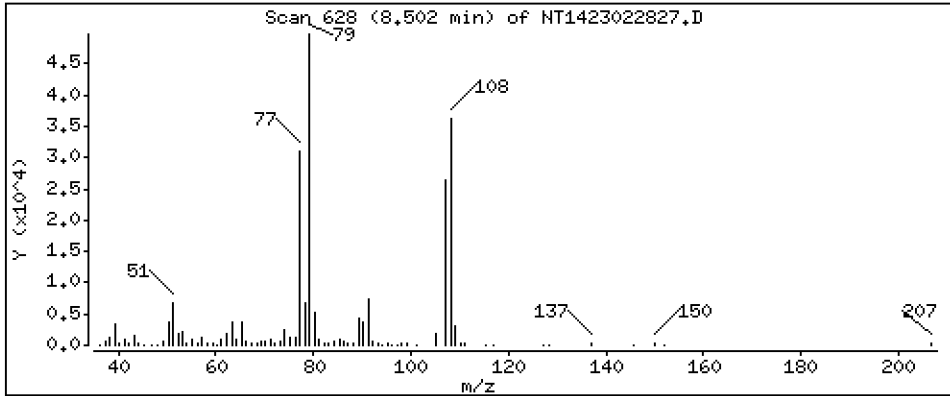
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 3,705 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

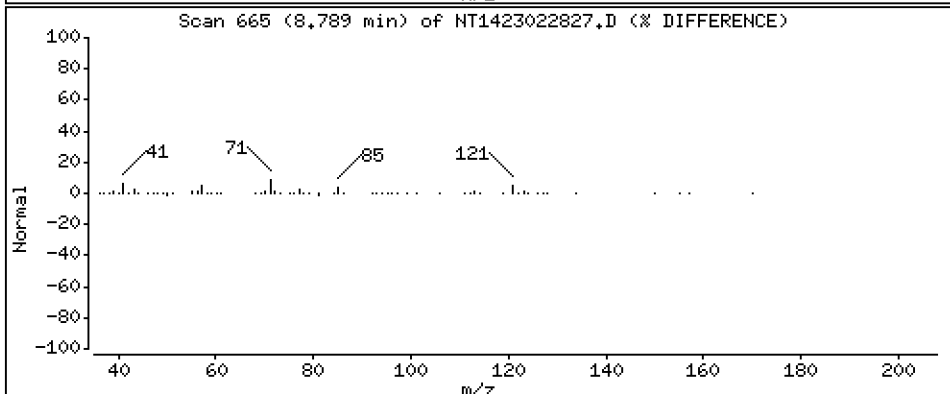
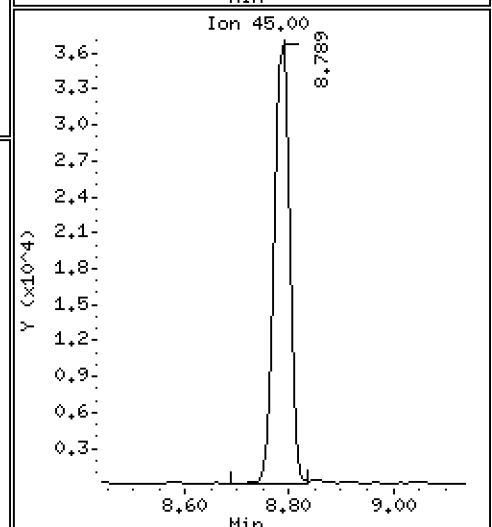
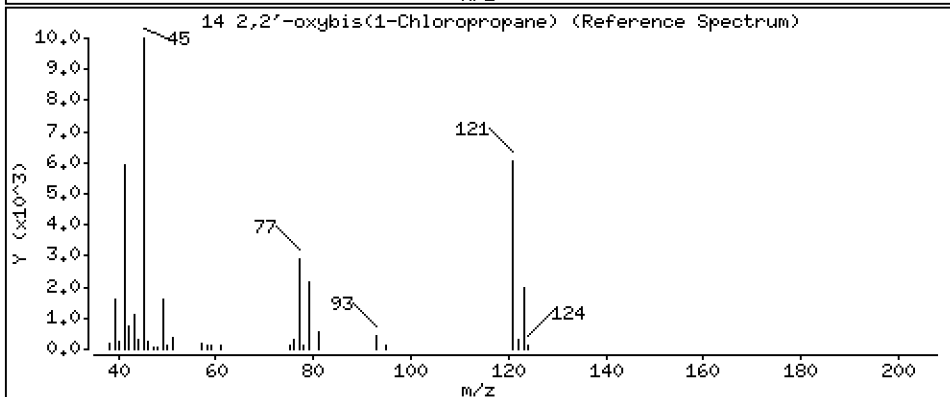
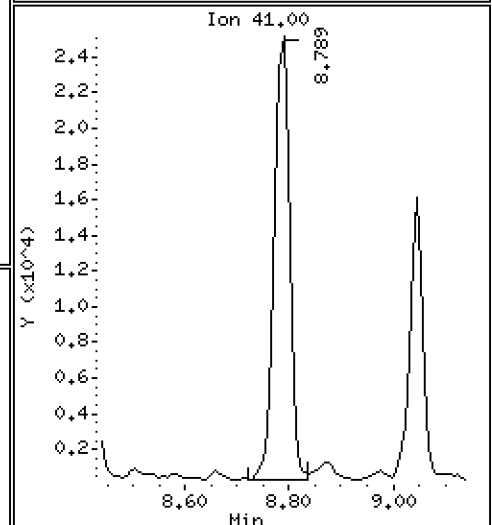
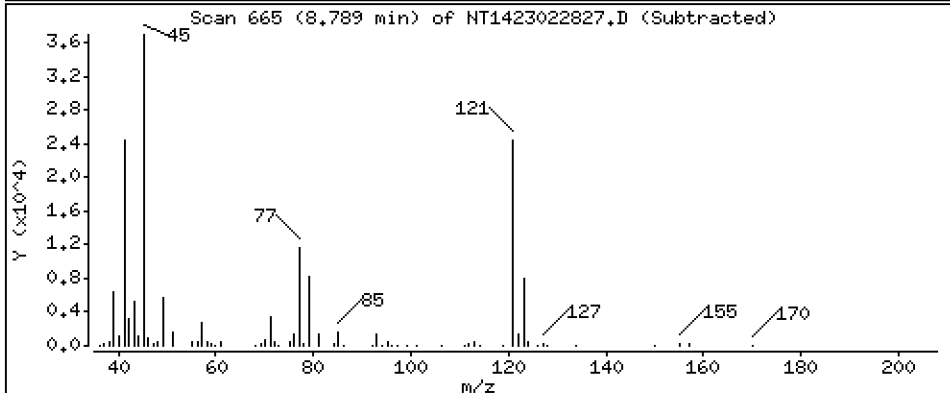
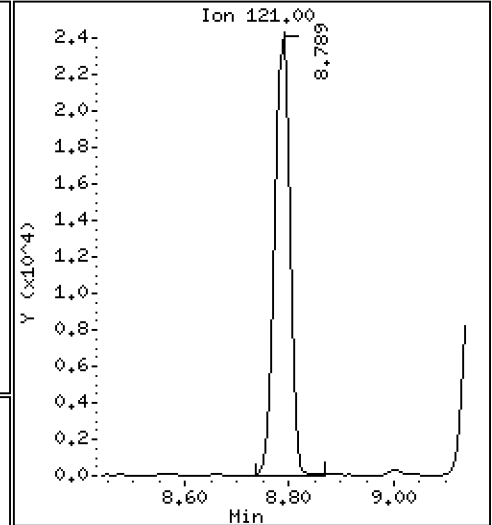
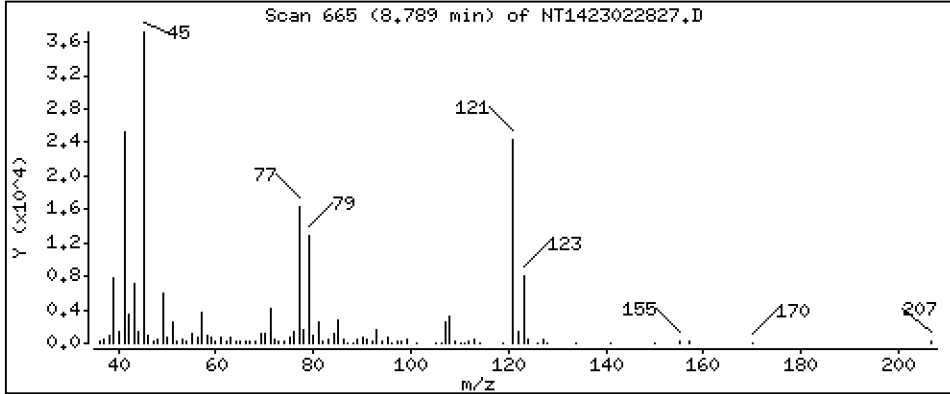
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 4,326 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

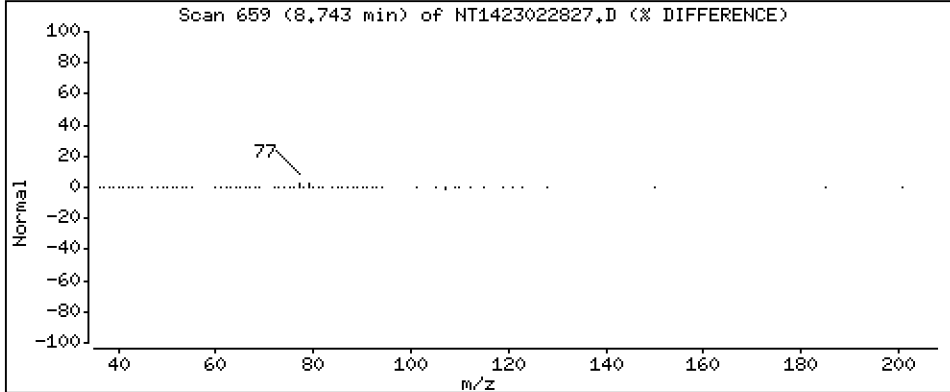
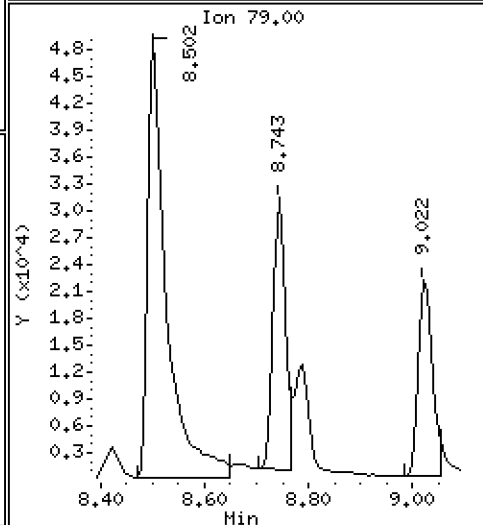
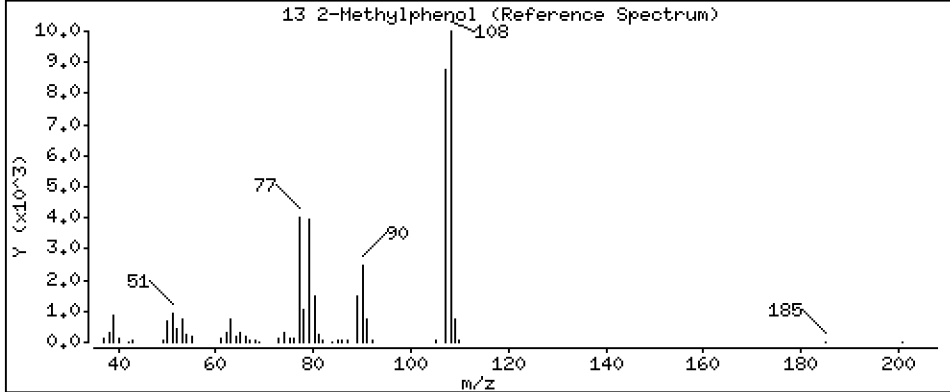
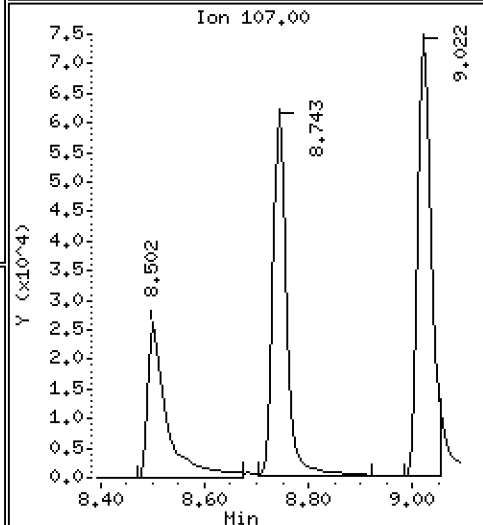
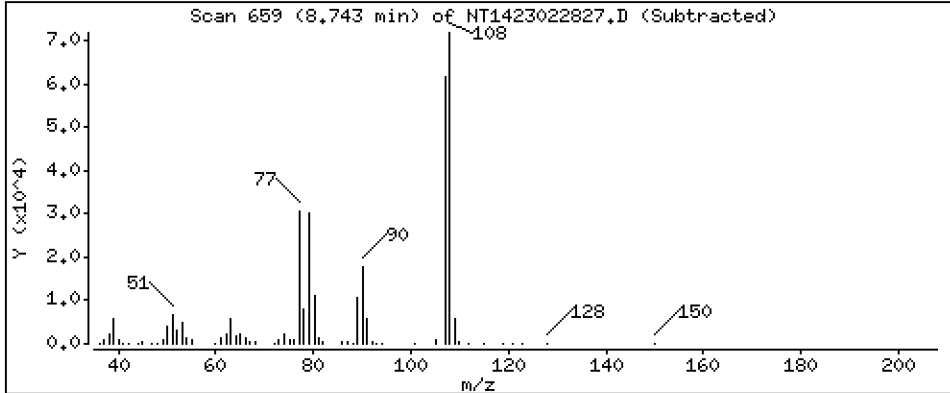
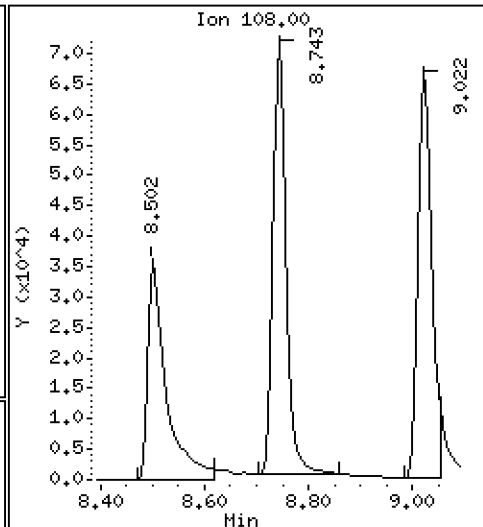
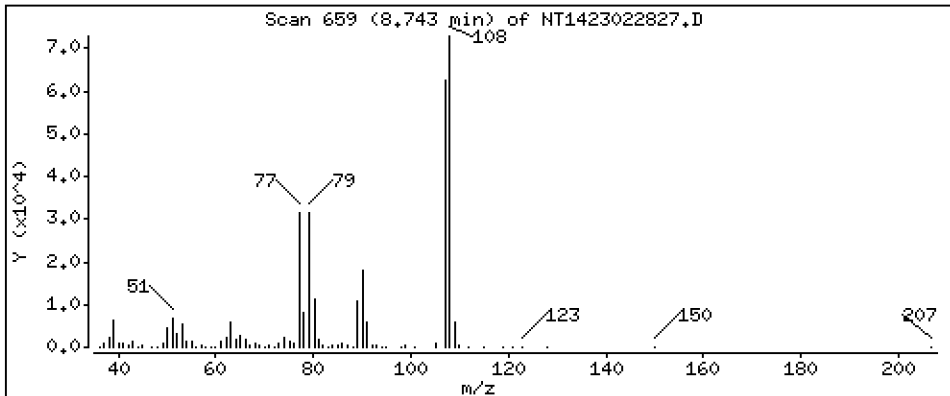
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 3,527 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

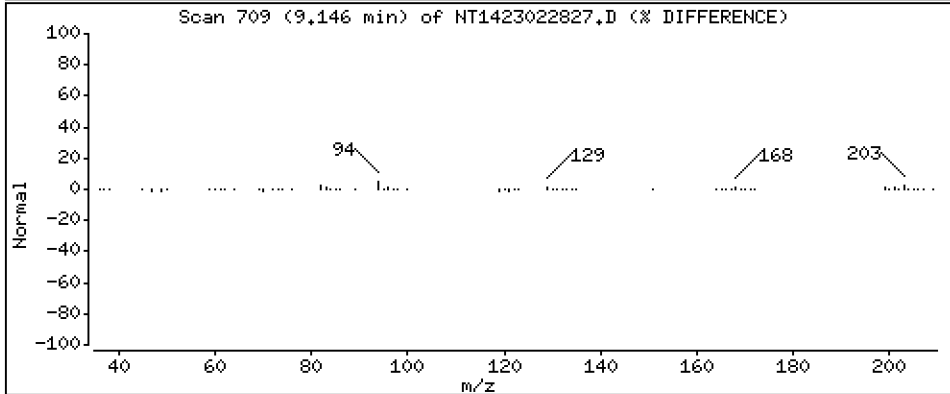
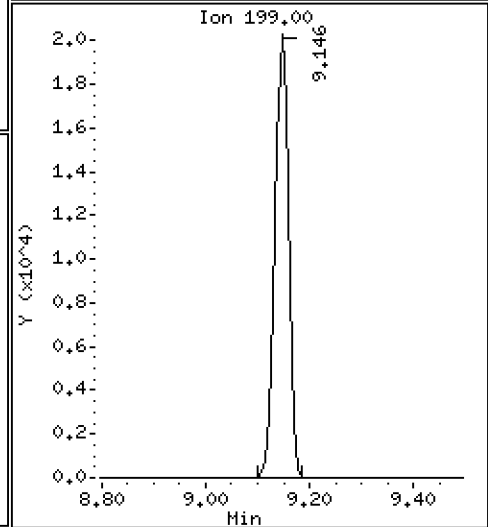
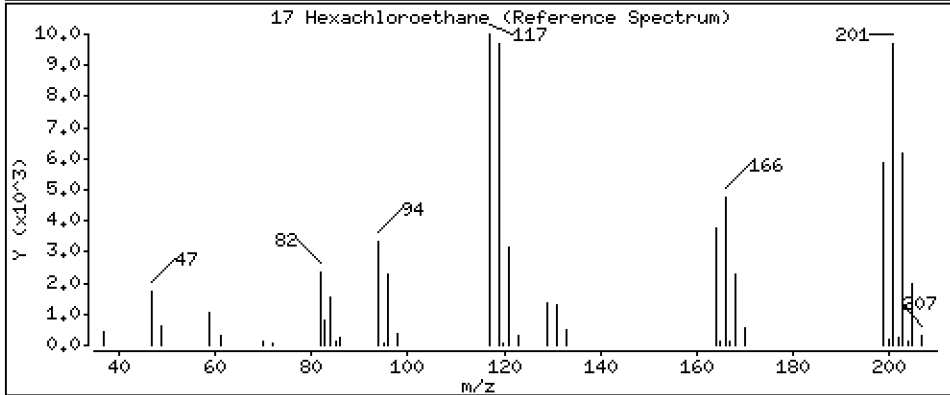
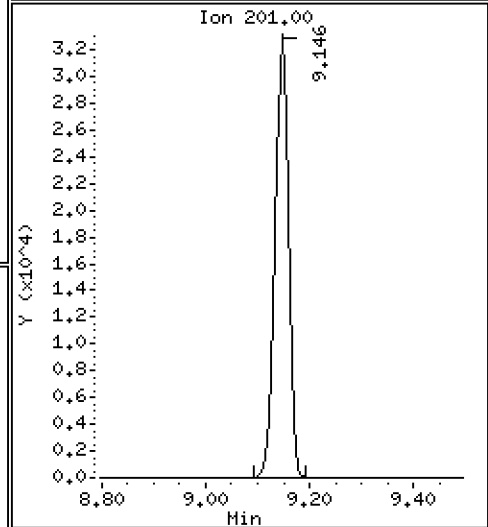
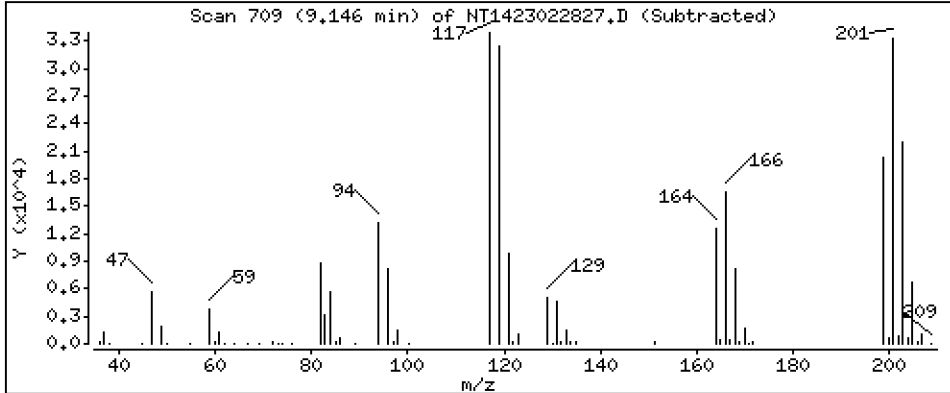
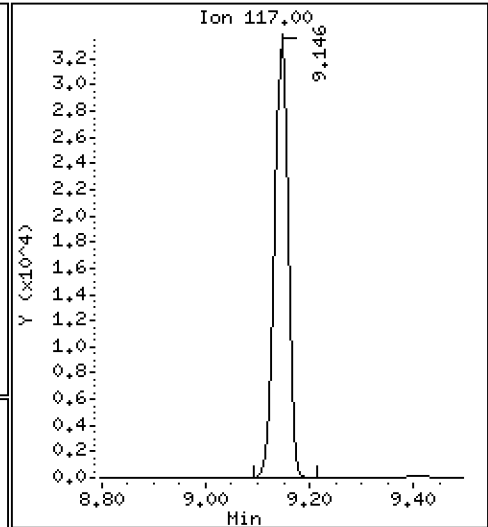
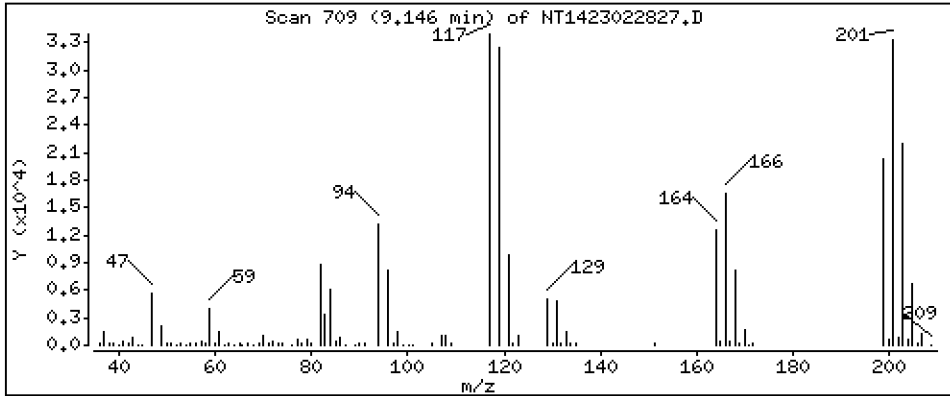
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 3,664 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

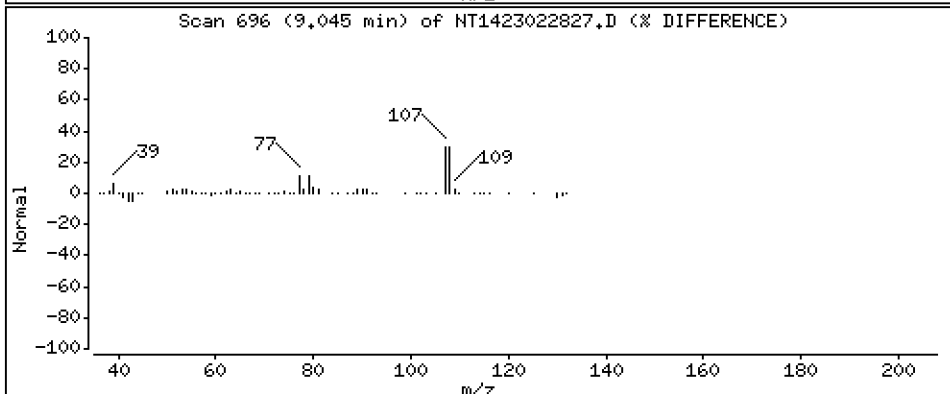
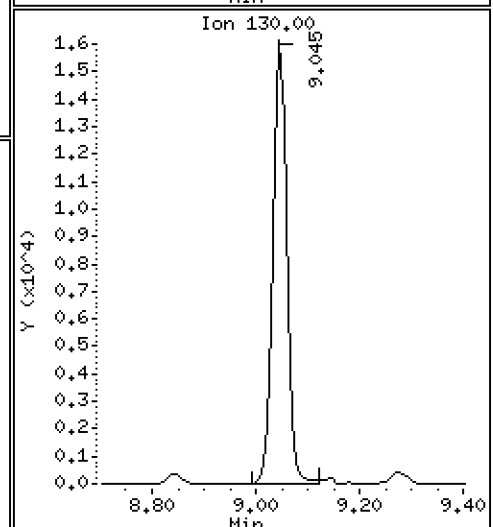
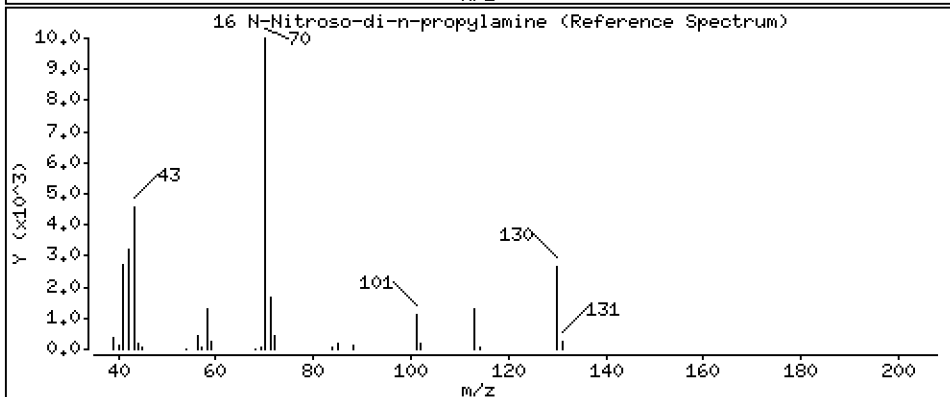
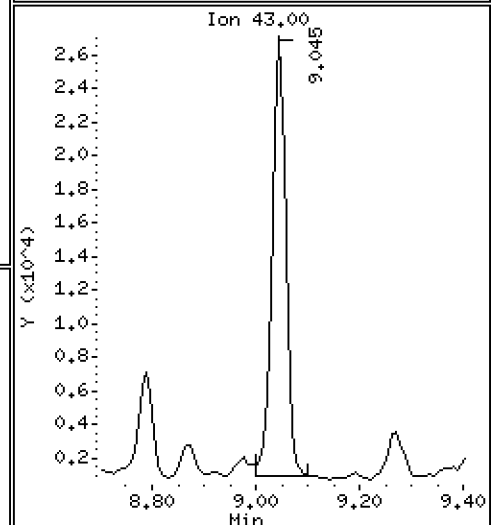
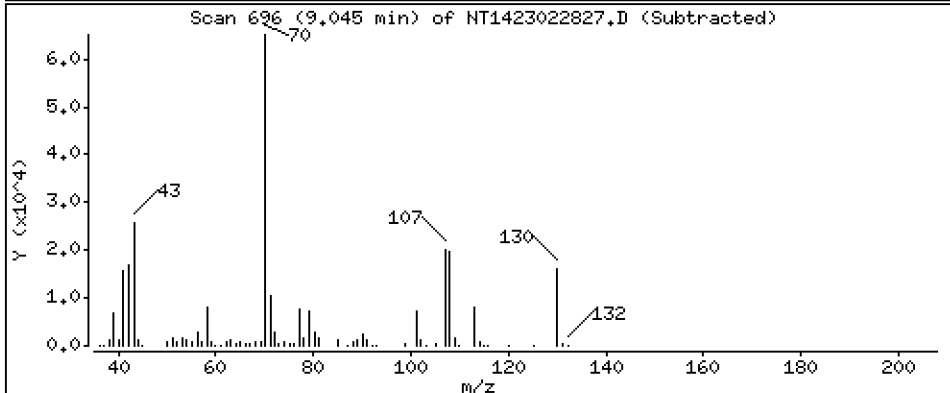
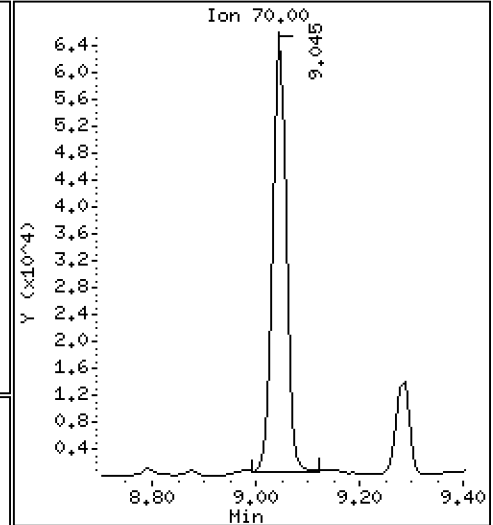
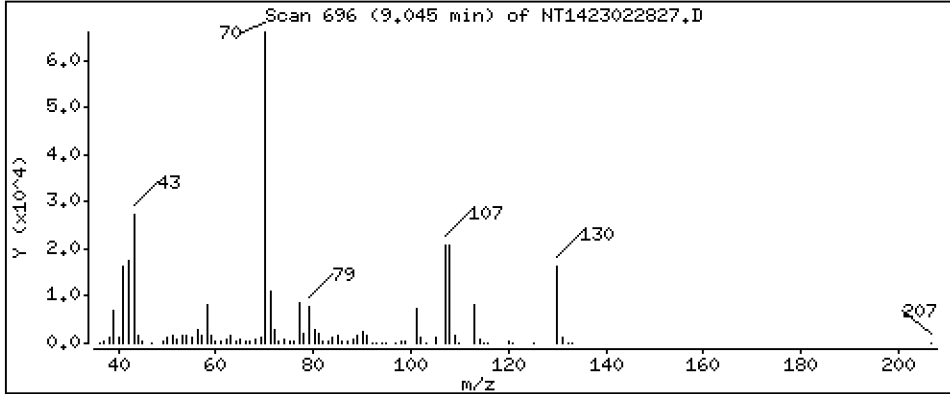
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 4,374 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

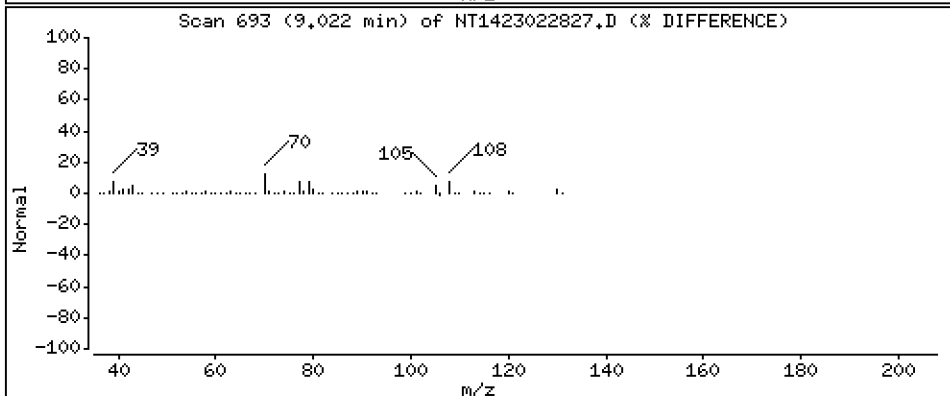
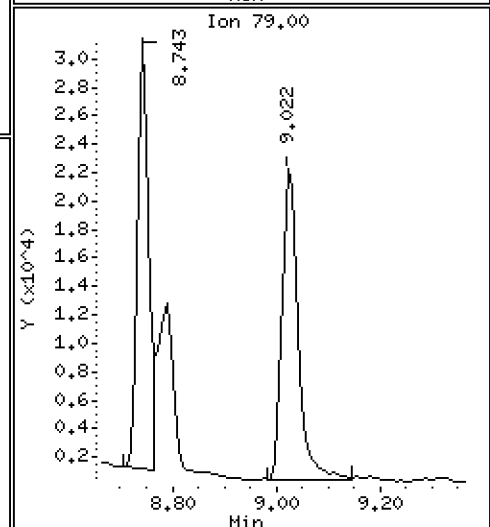
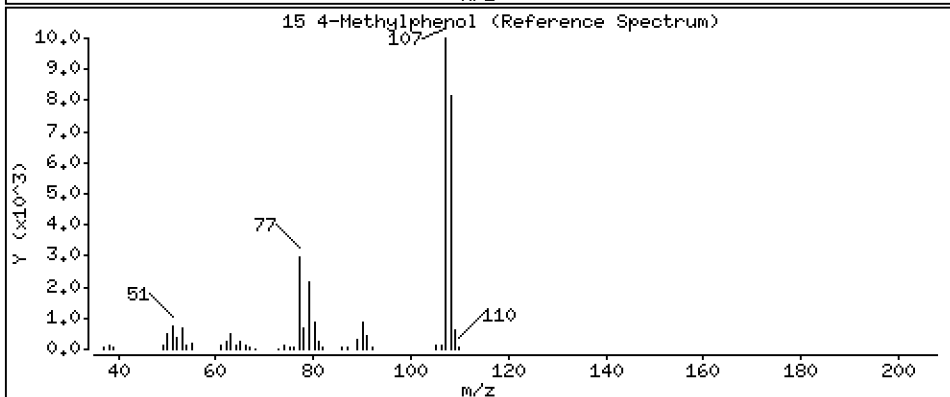
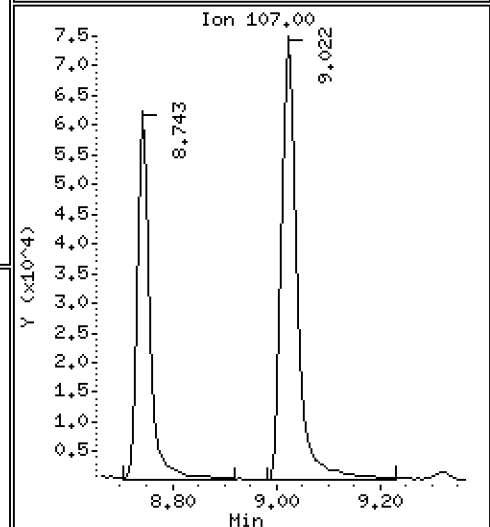
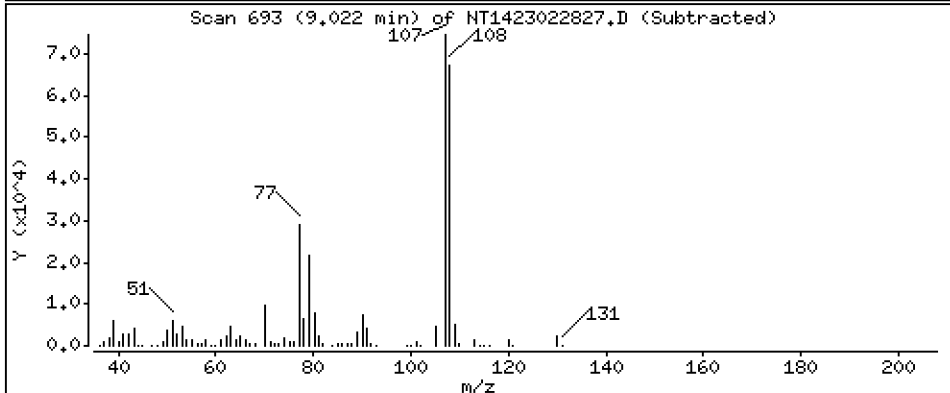
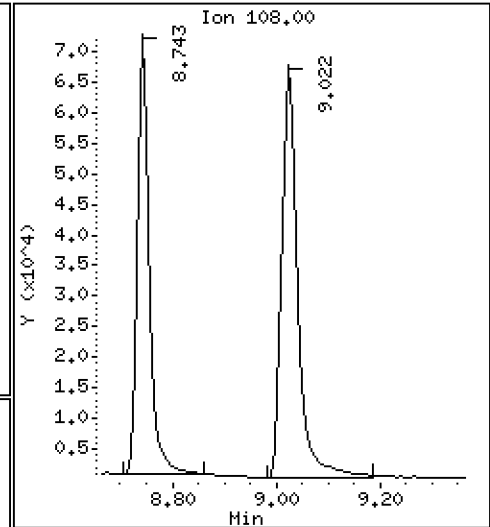
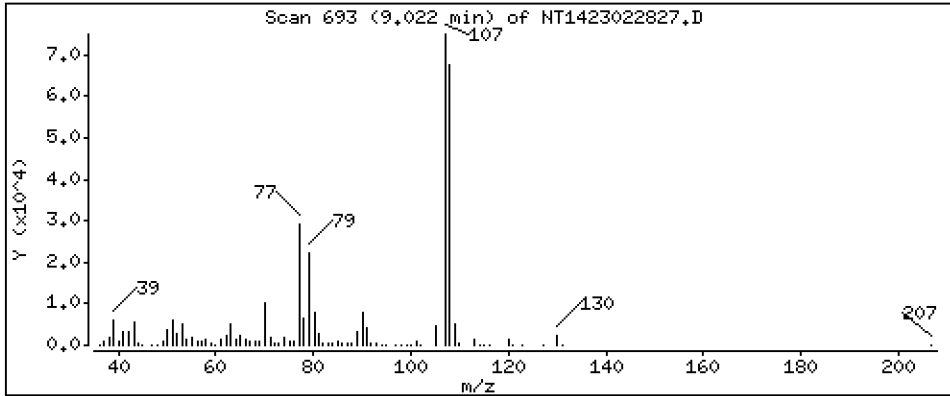
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 3,681 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

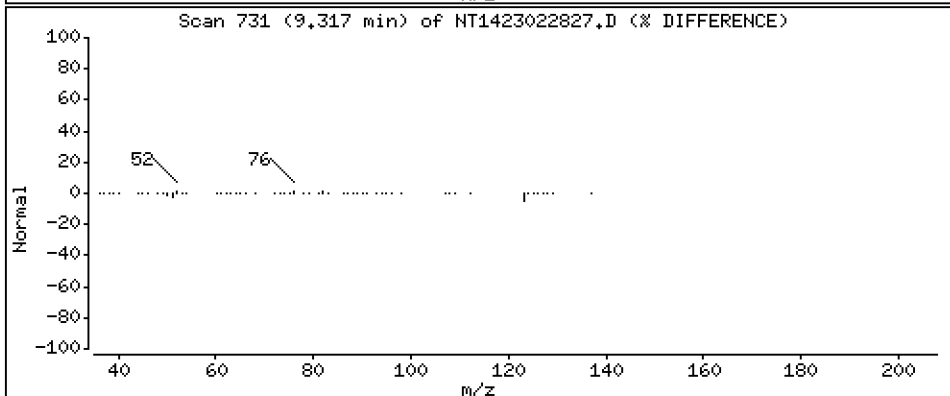
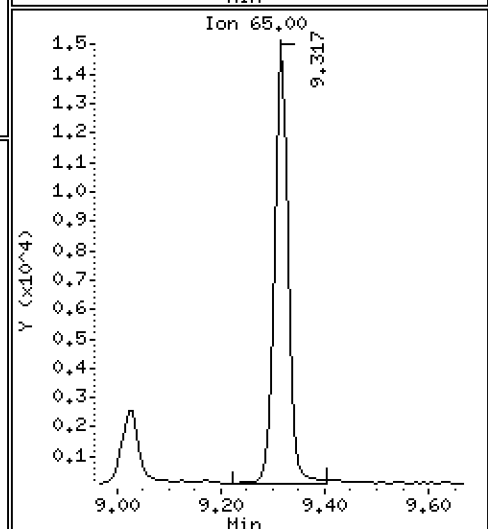
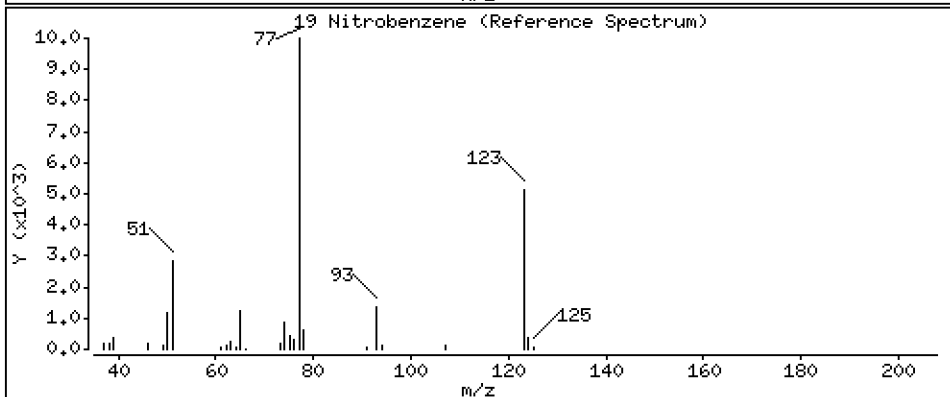
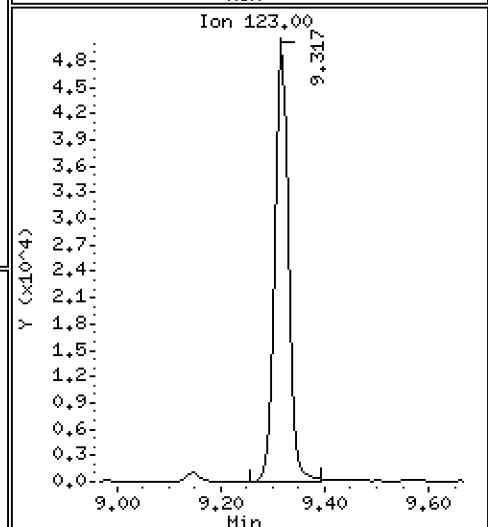
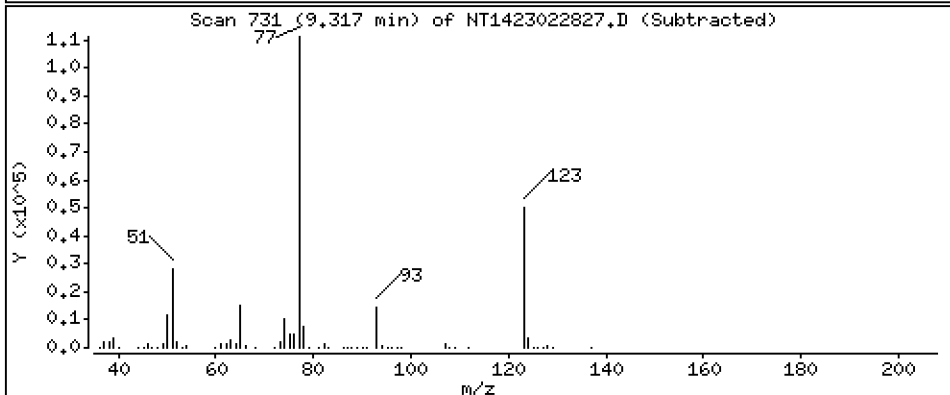
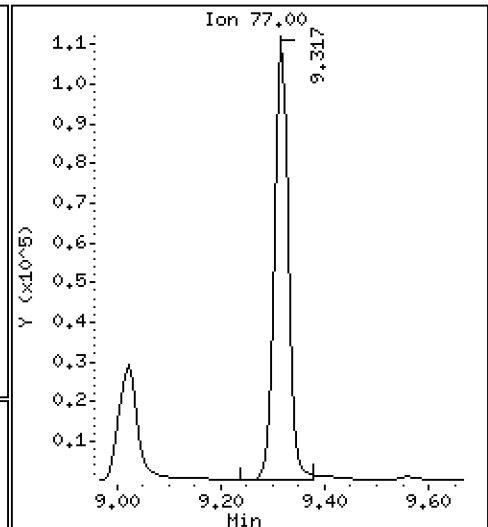
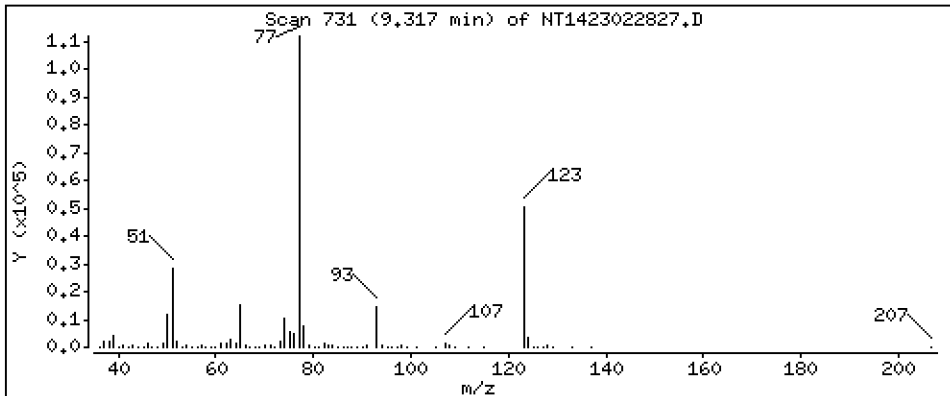
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 5,035 ug/mL





Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

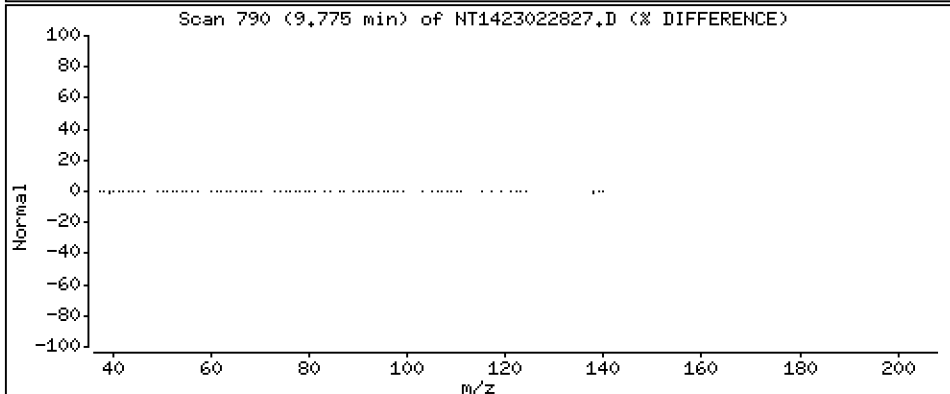
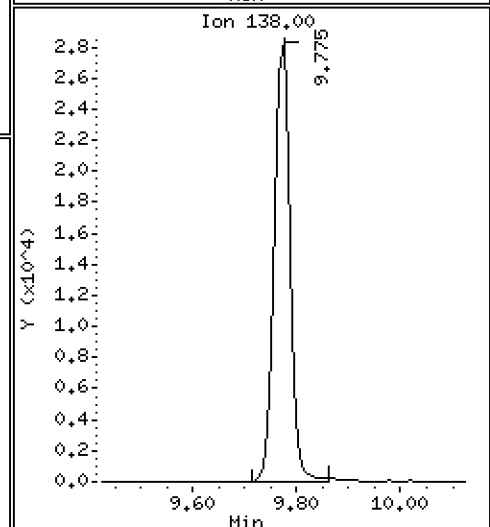
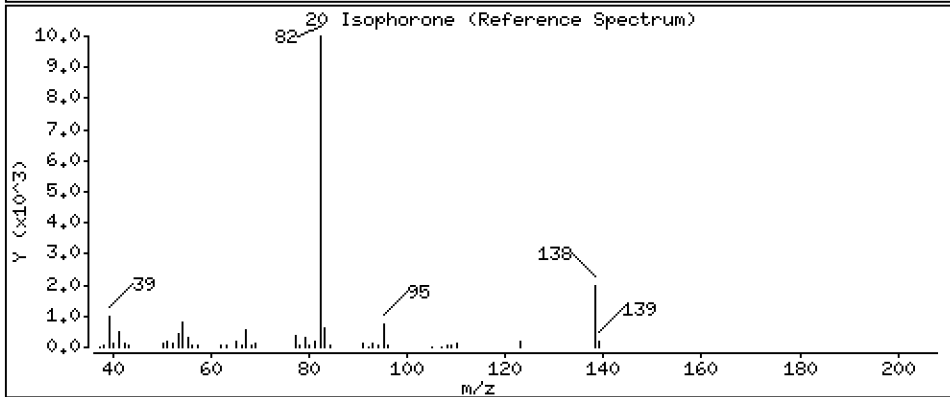
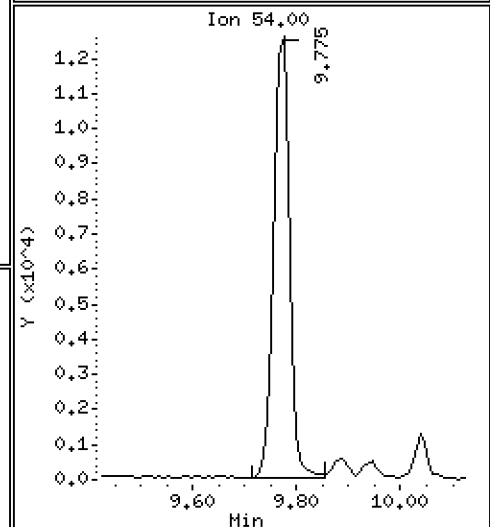
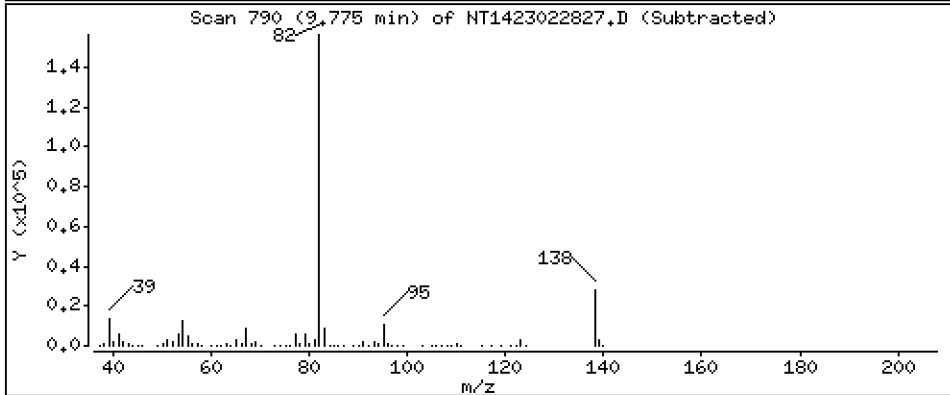
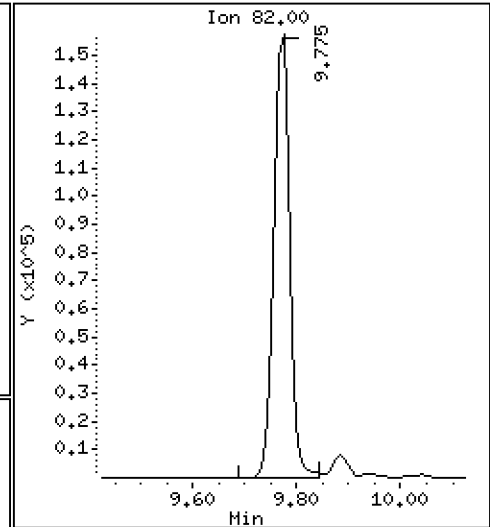
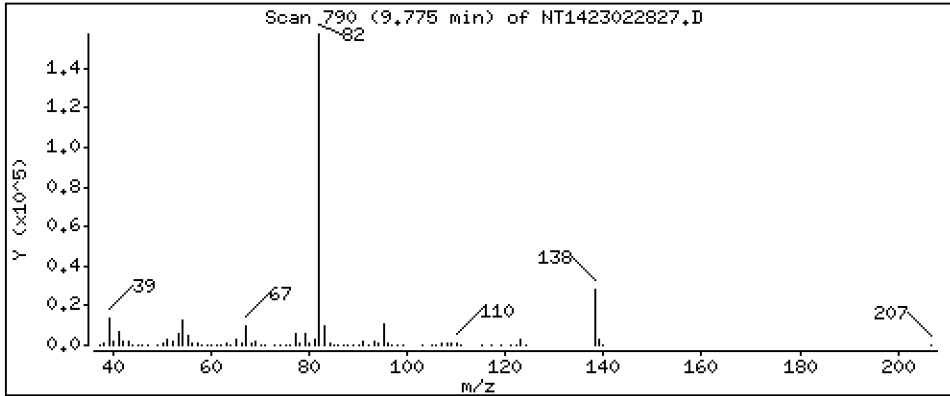
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 5,386 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

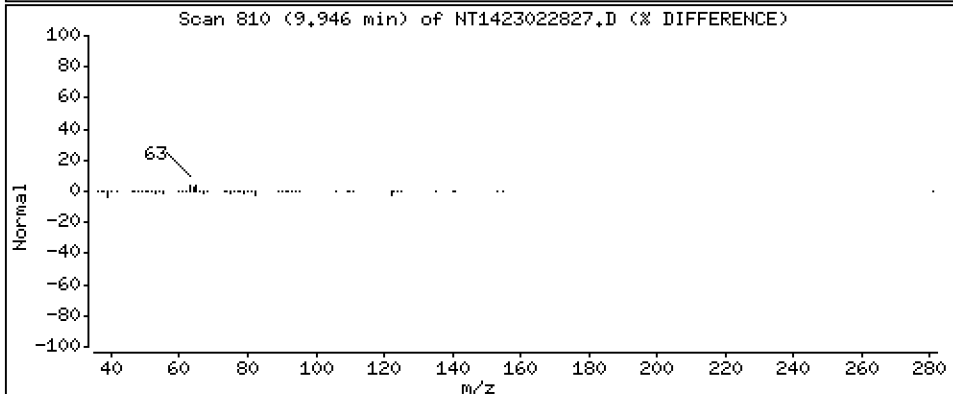
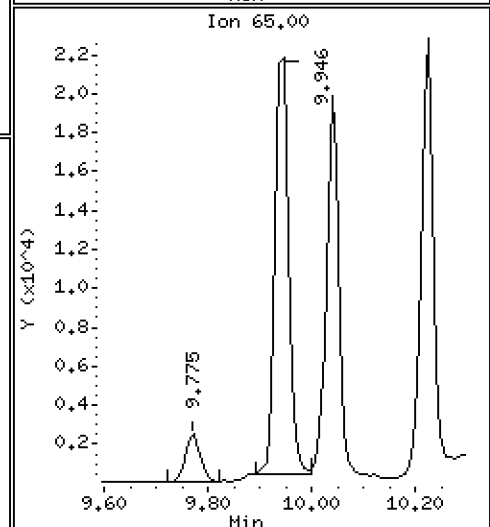
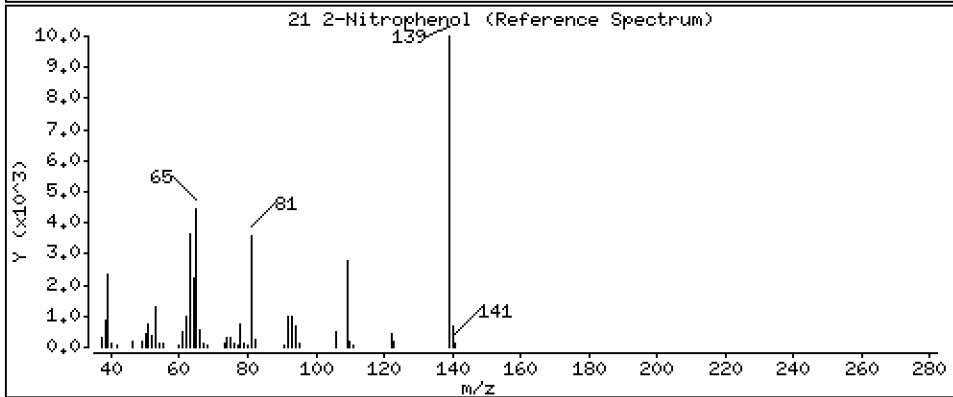
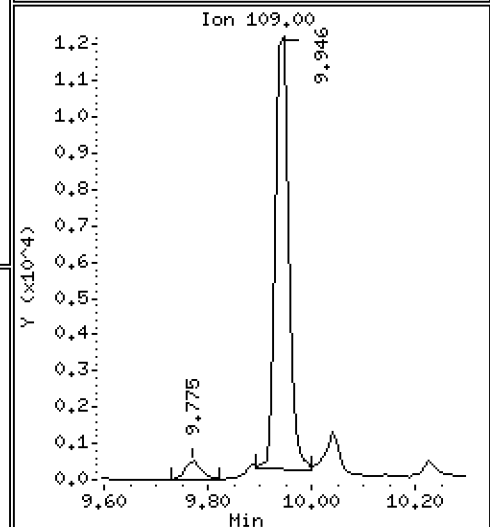
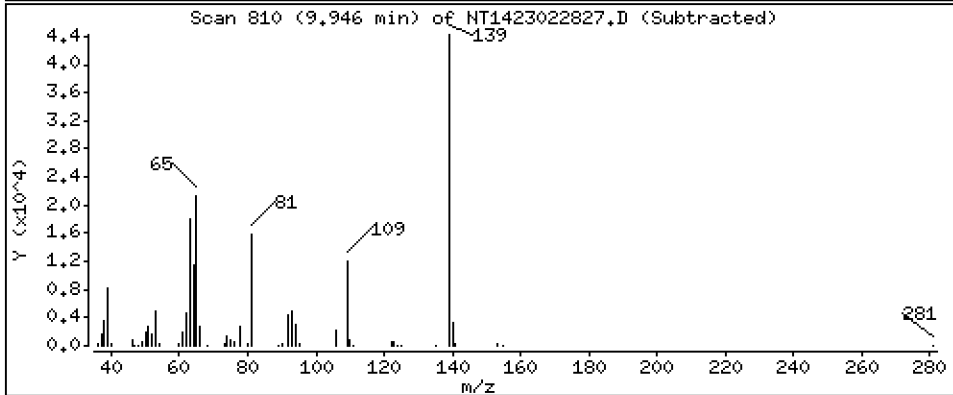
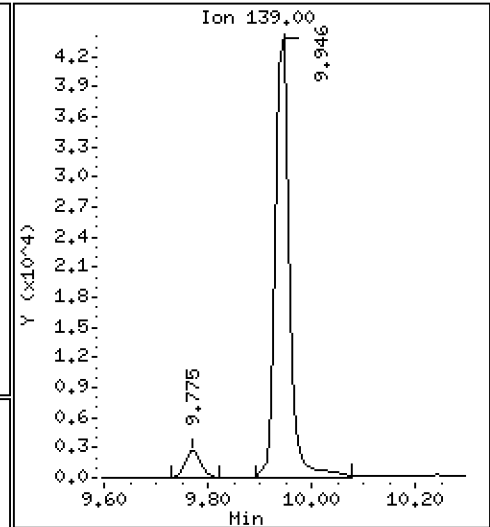
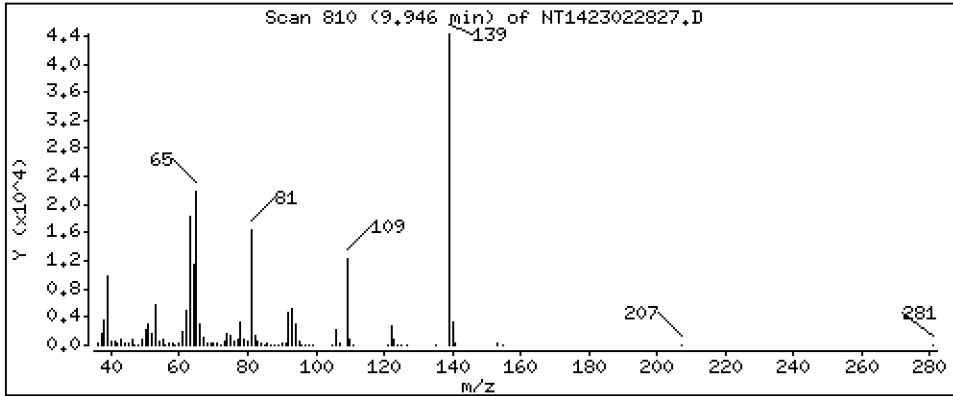
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,250 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

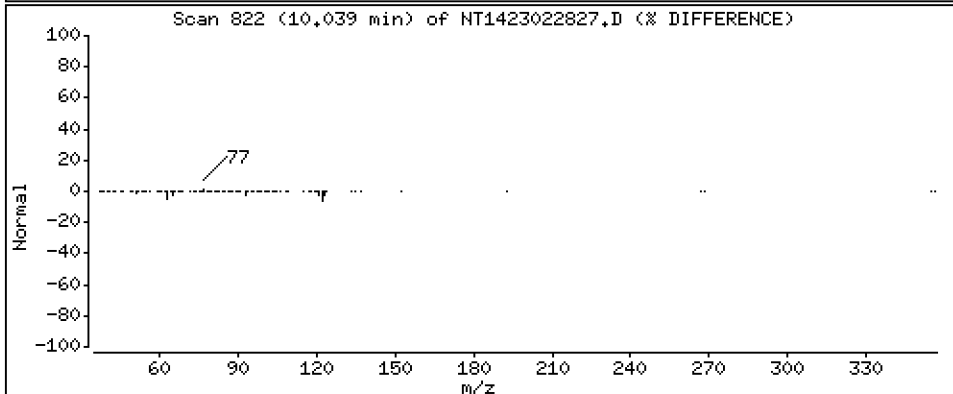
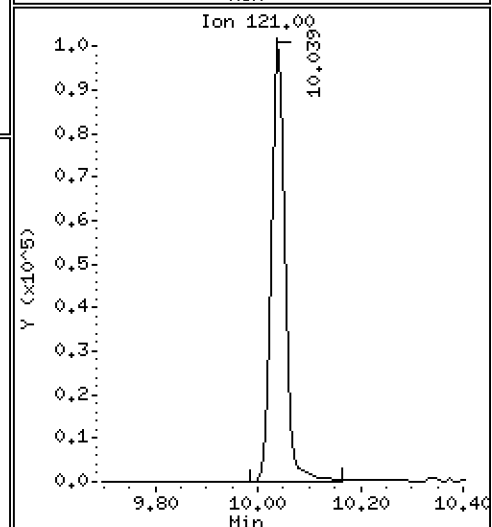
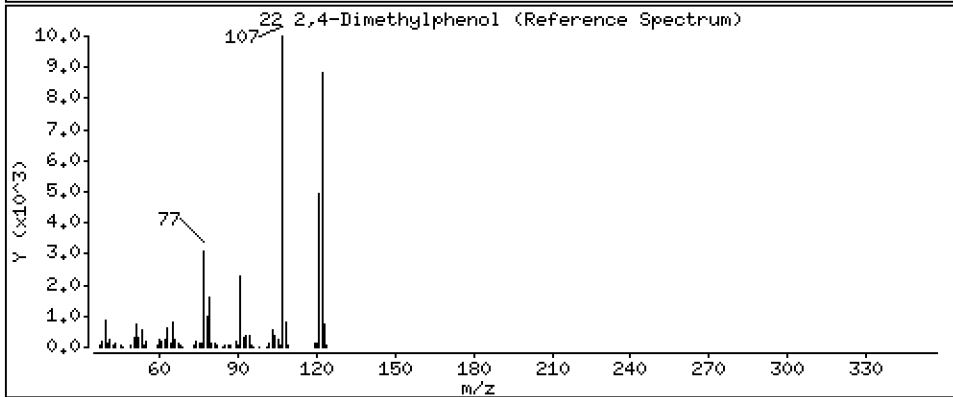
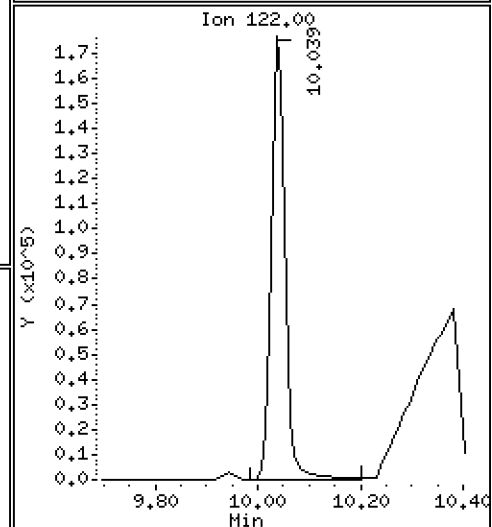
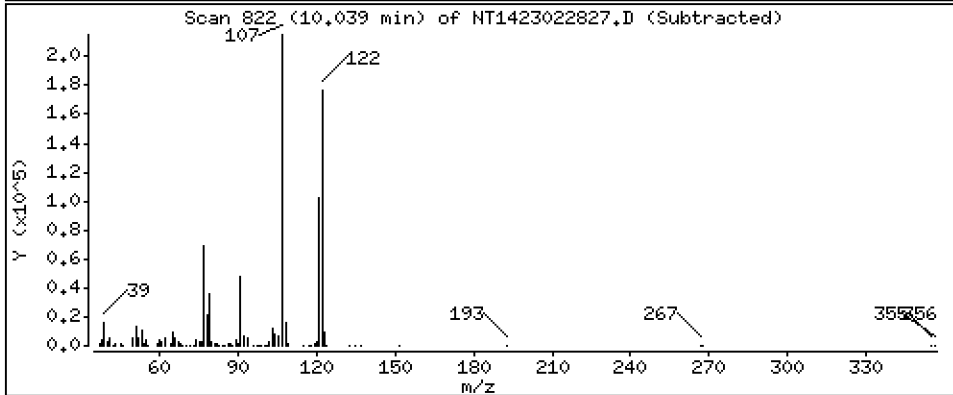
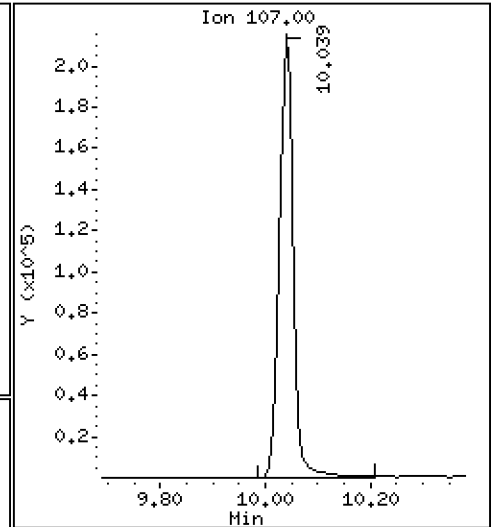
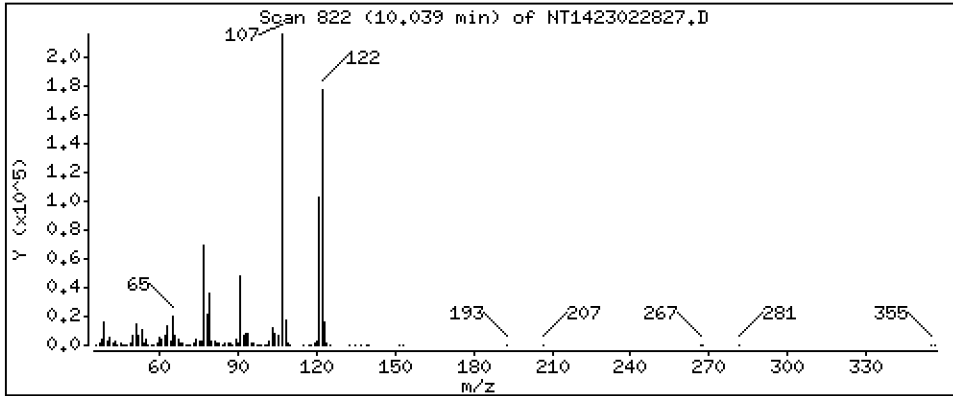
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 10,72 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

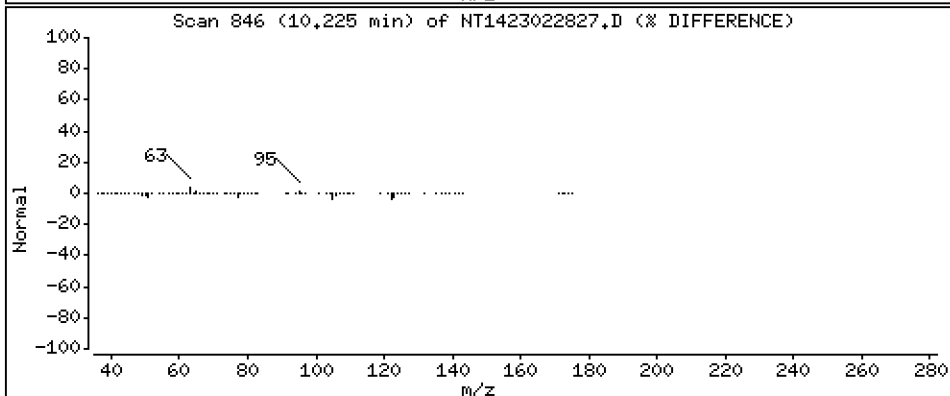
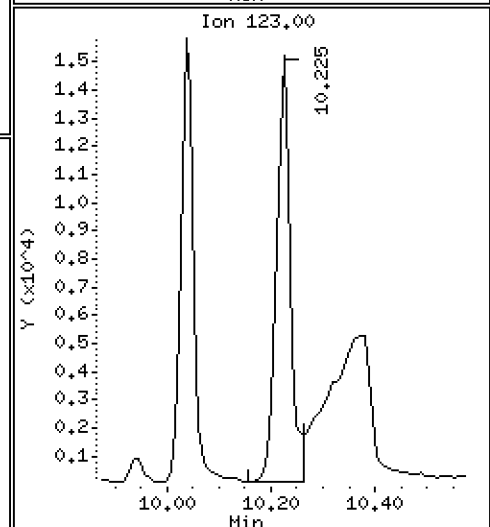
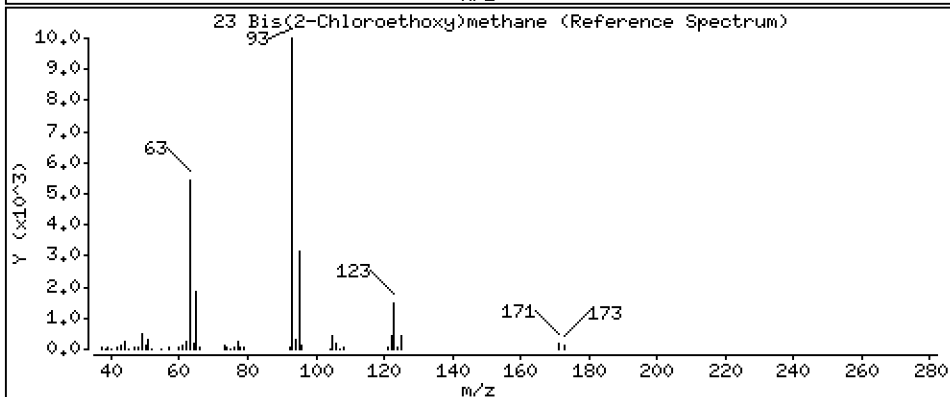
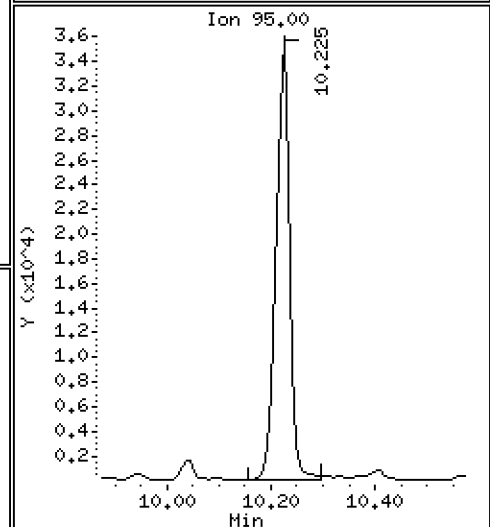
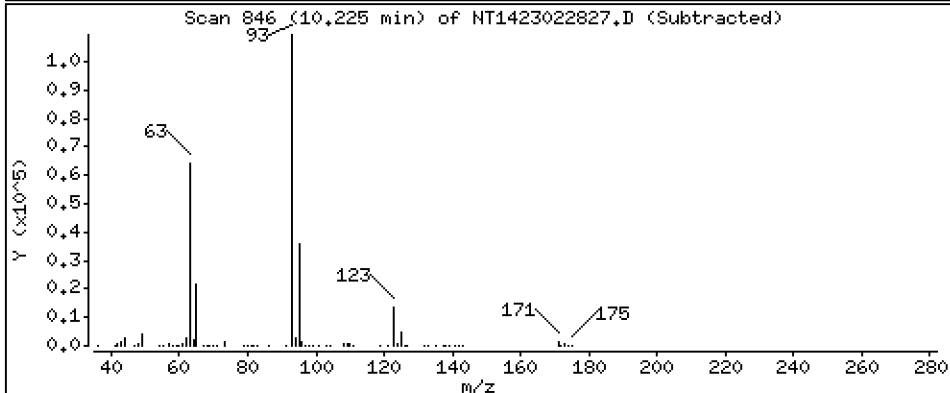
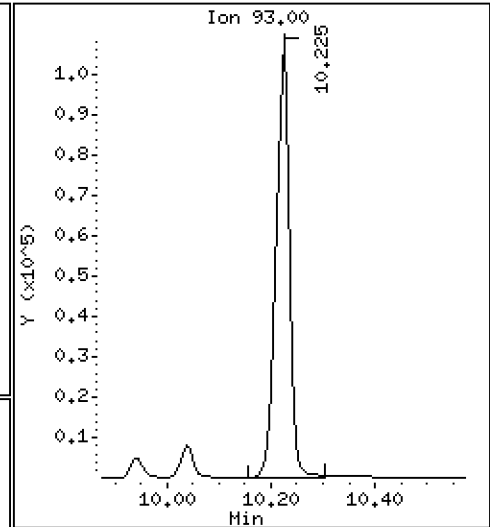
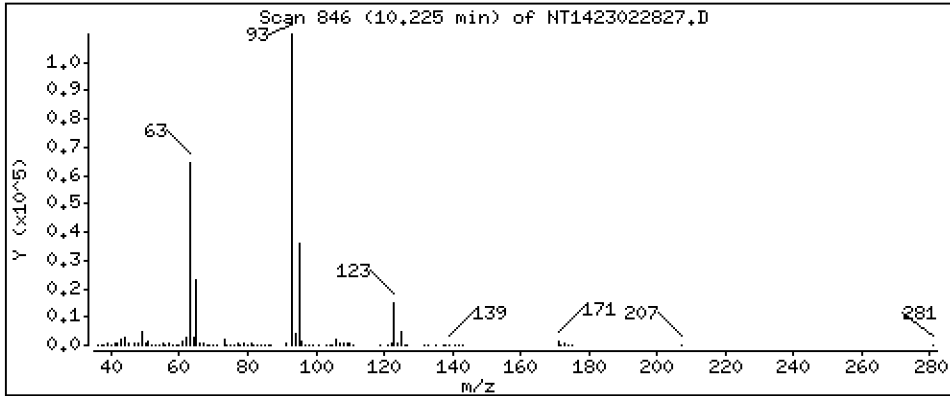
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 4,808 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

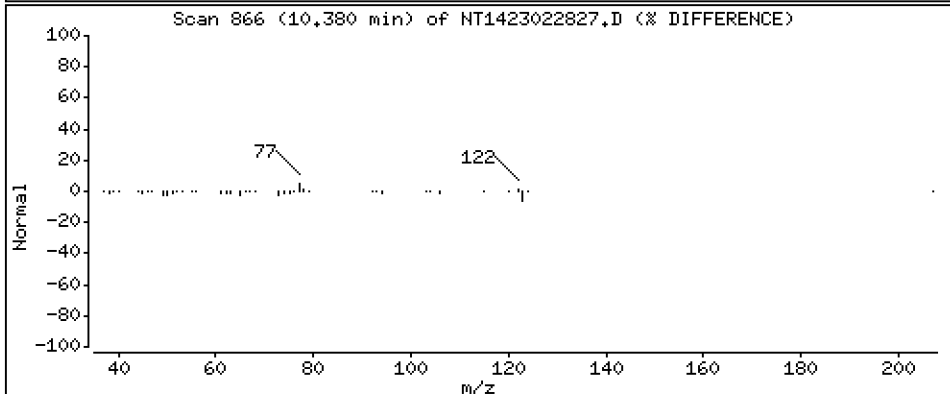
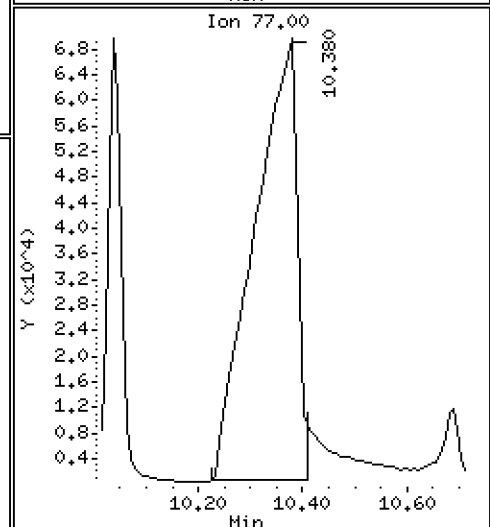
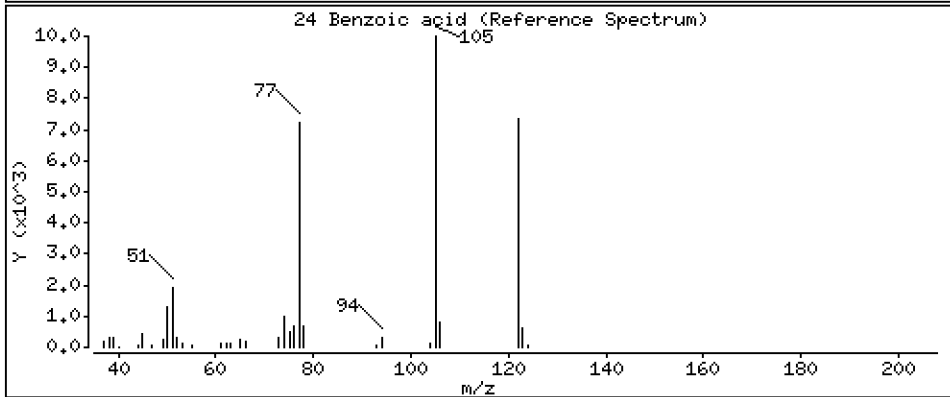
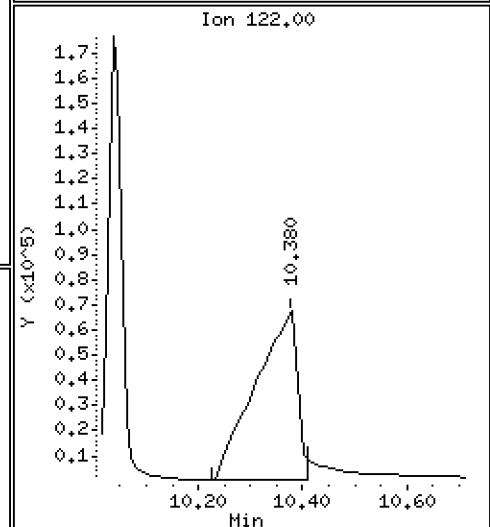
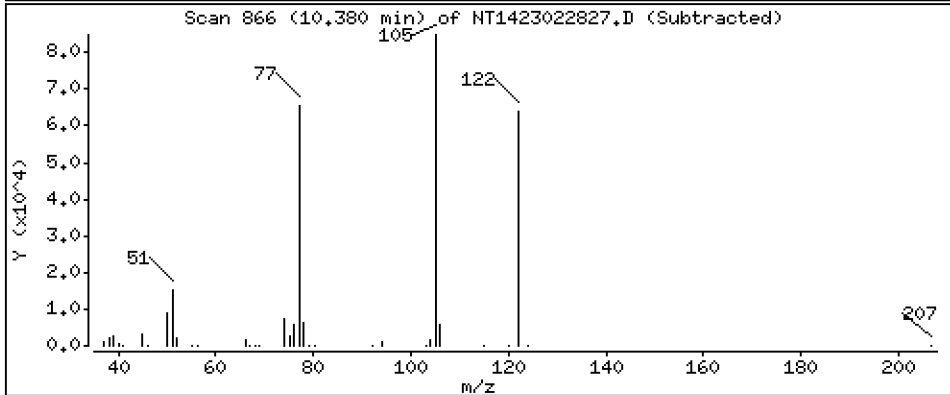
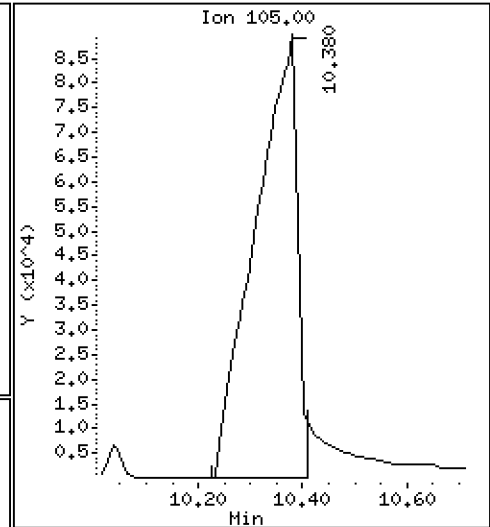
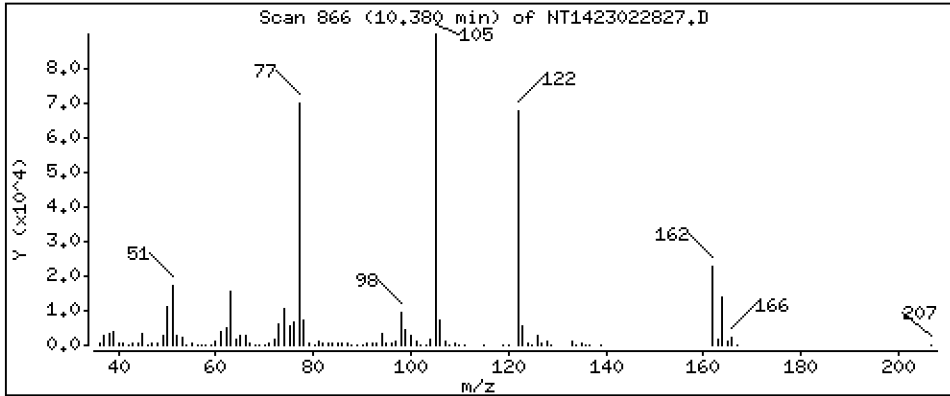
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 35,55 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

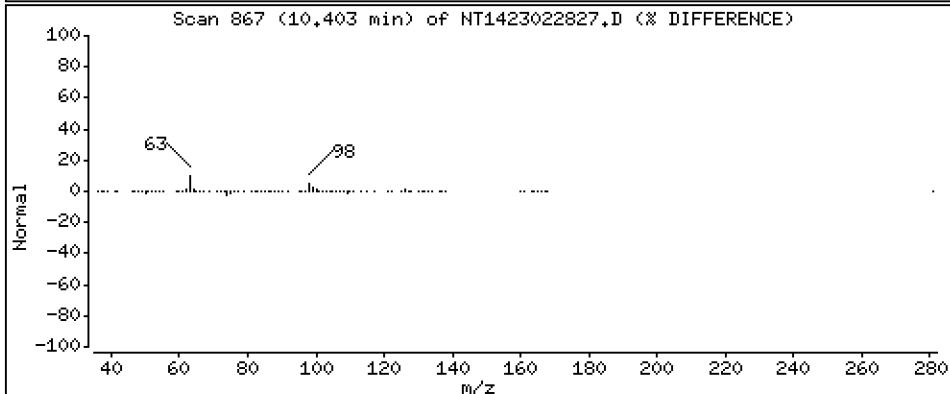
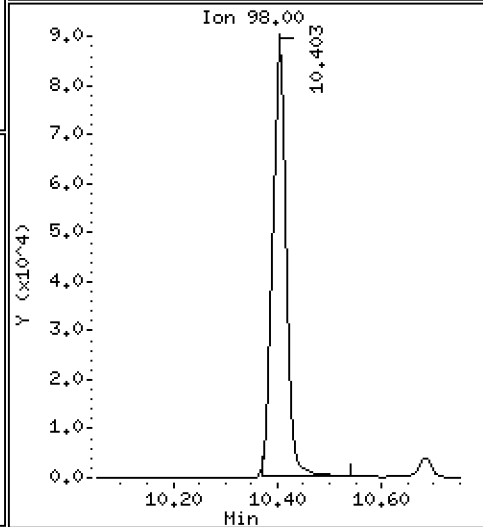
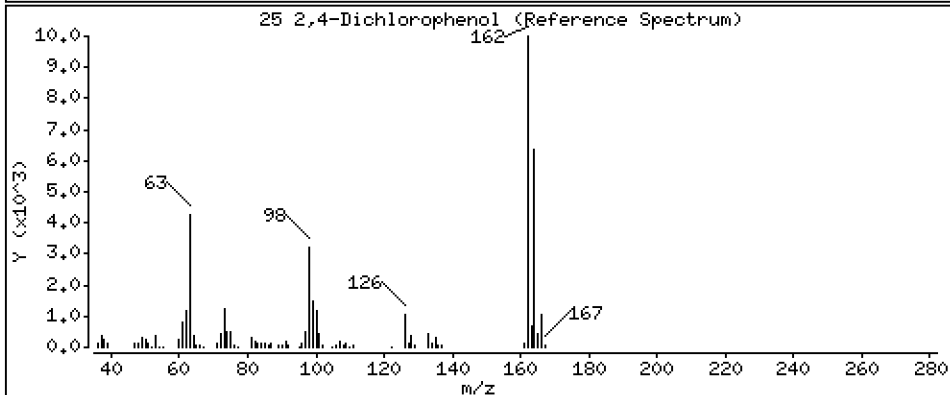
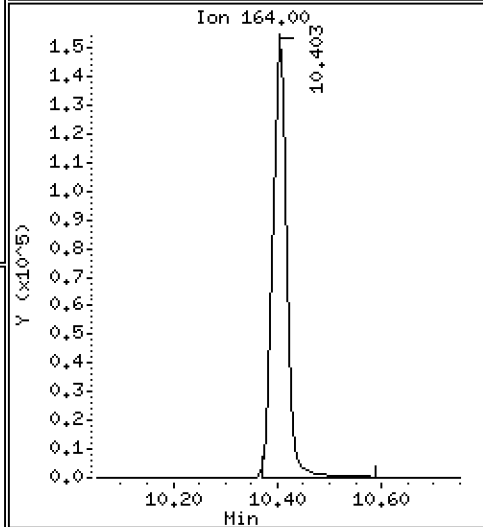
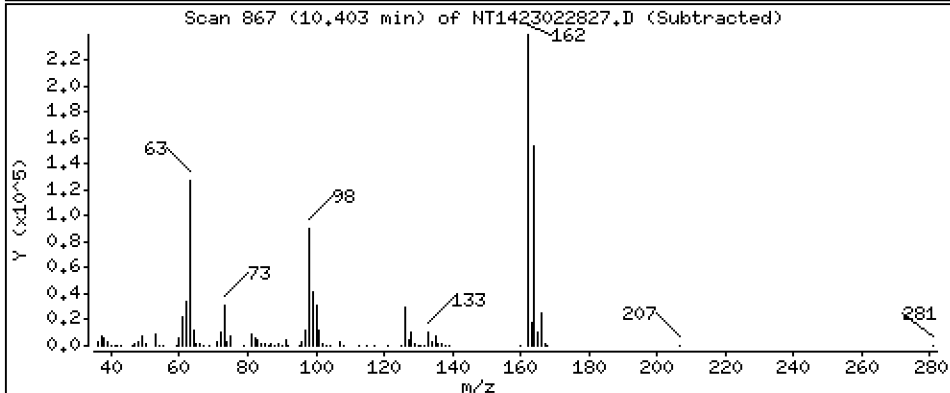
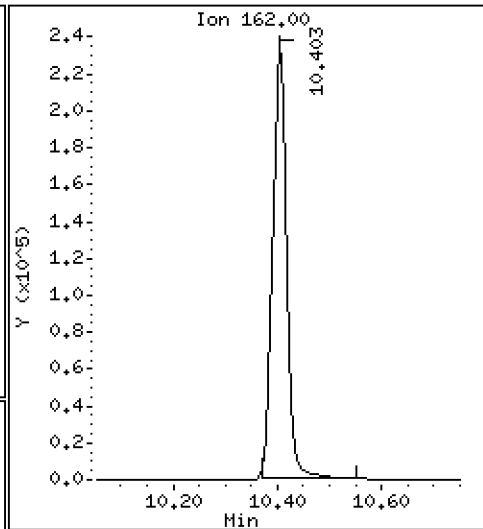
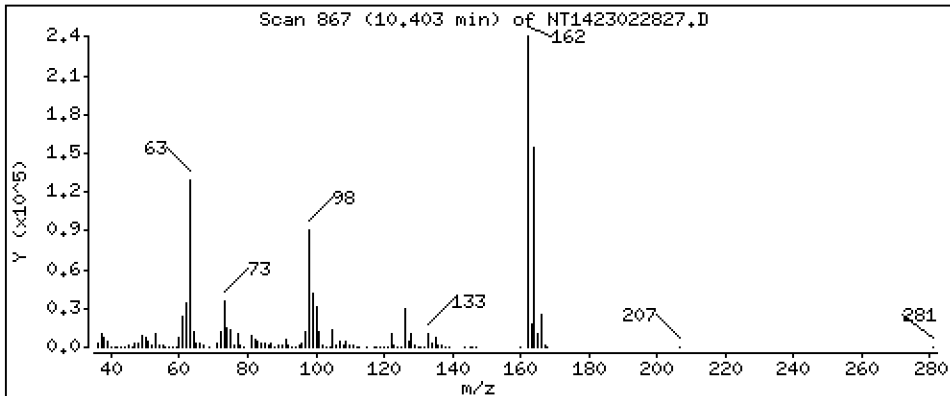
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 9,880 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

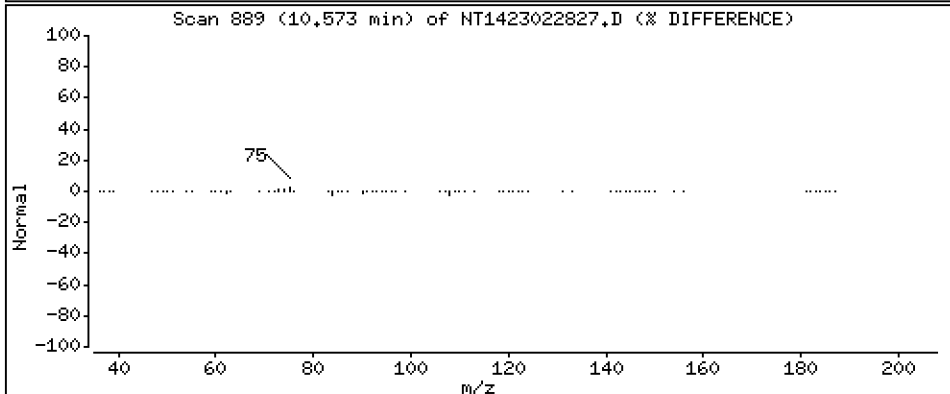
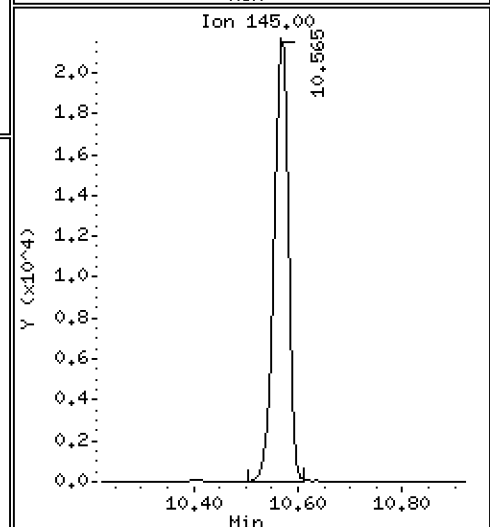
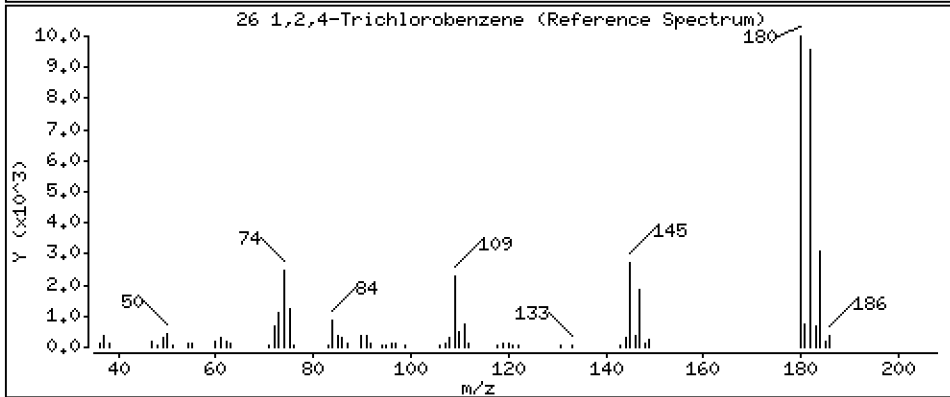
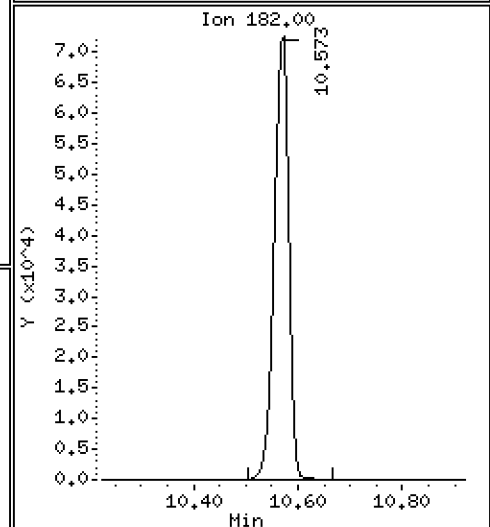
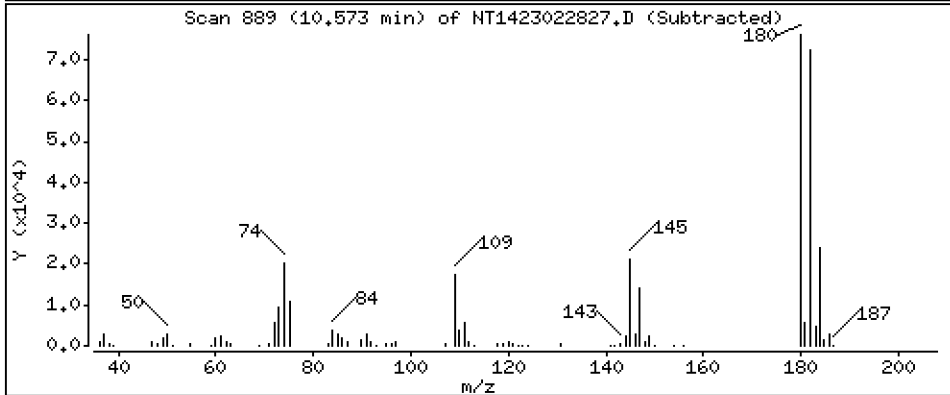
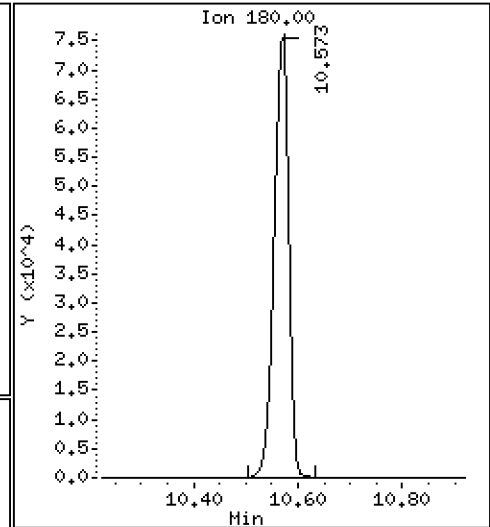
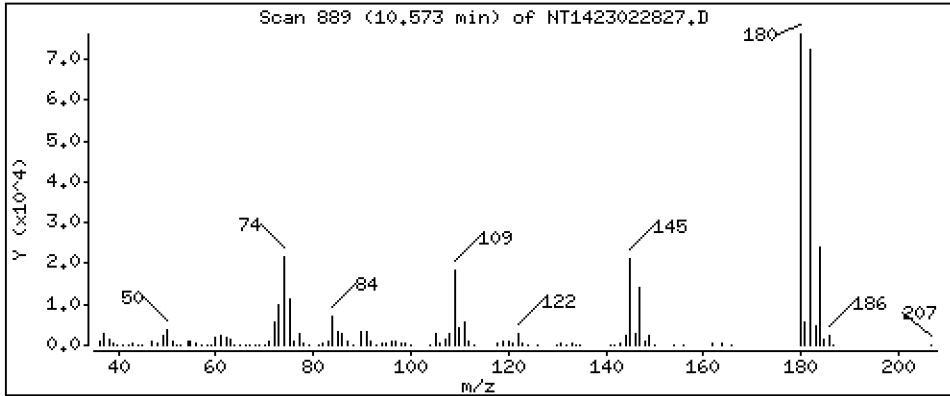
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 3,545 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

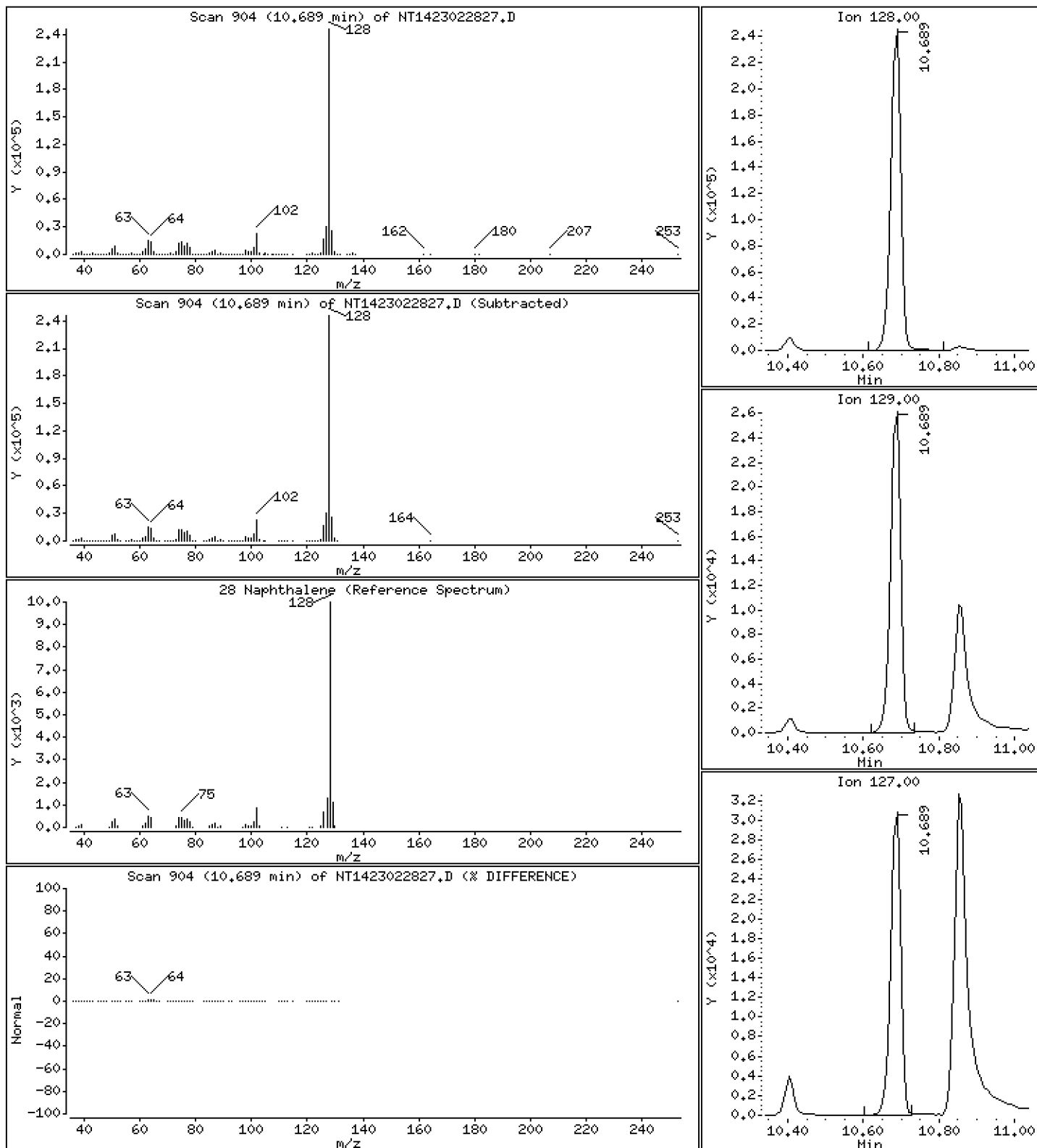
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 3,919 ug/mL





Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

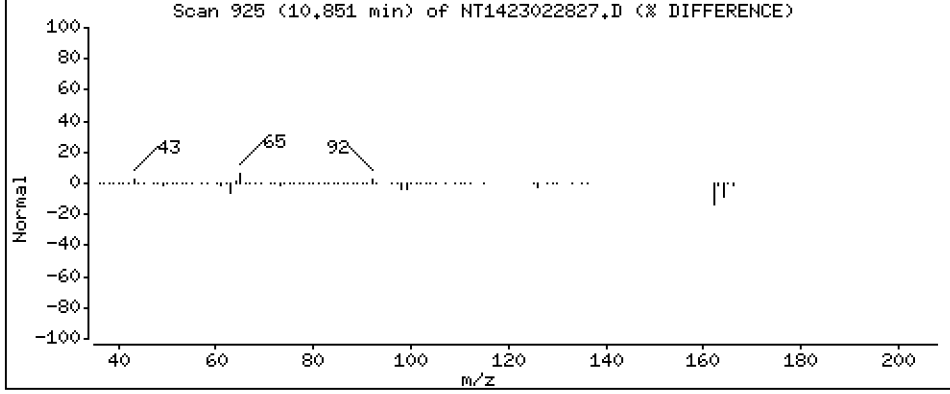
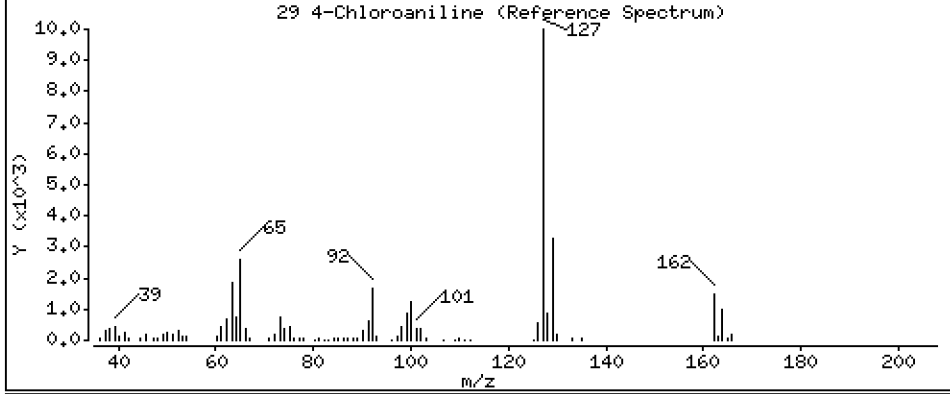
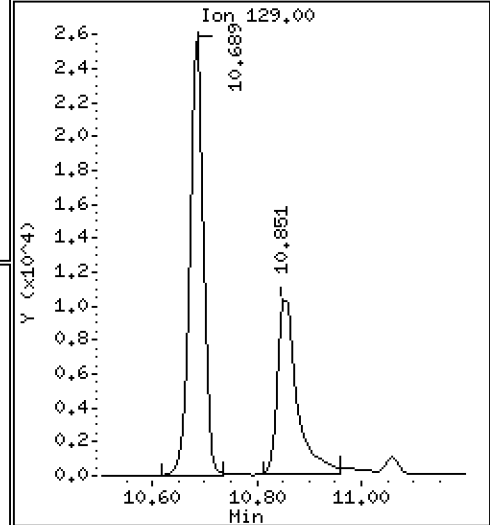
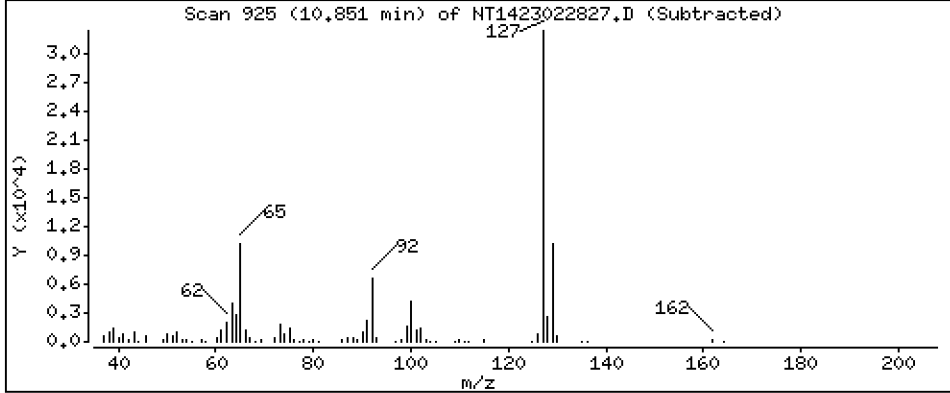
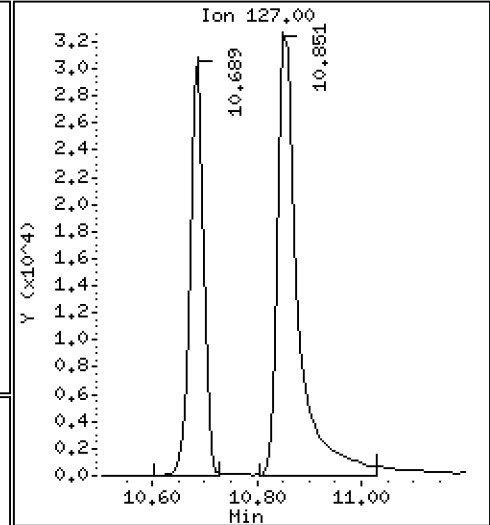
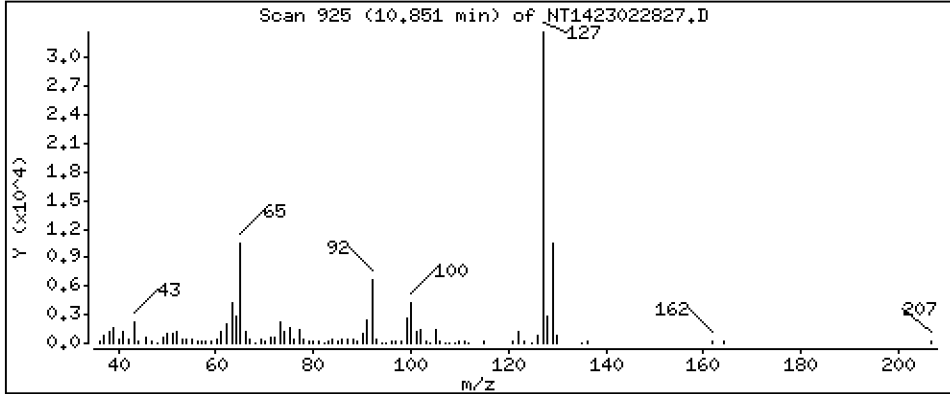
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 1,954 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

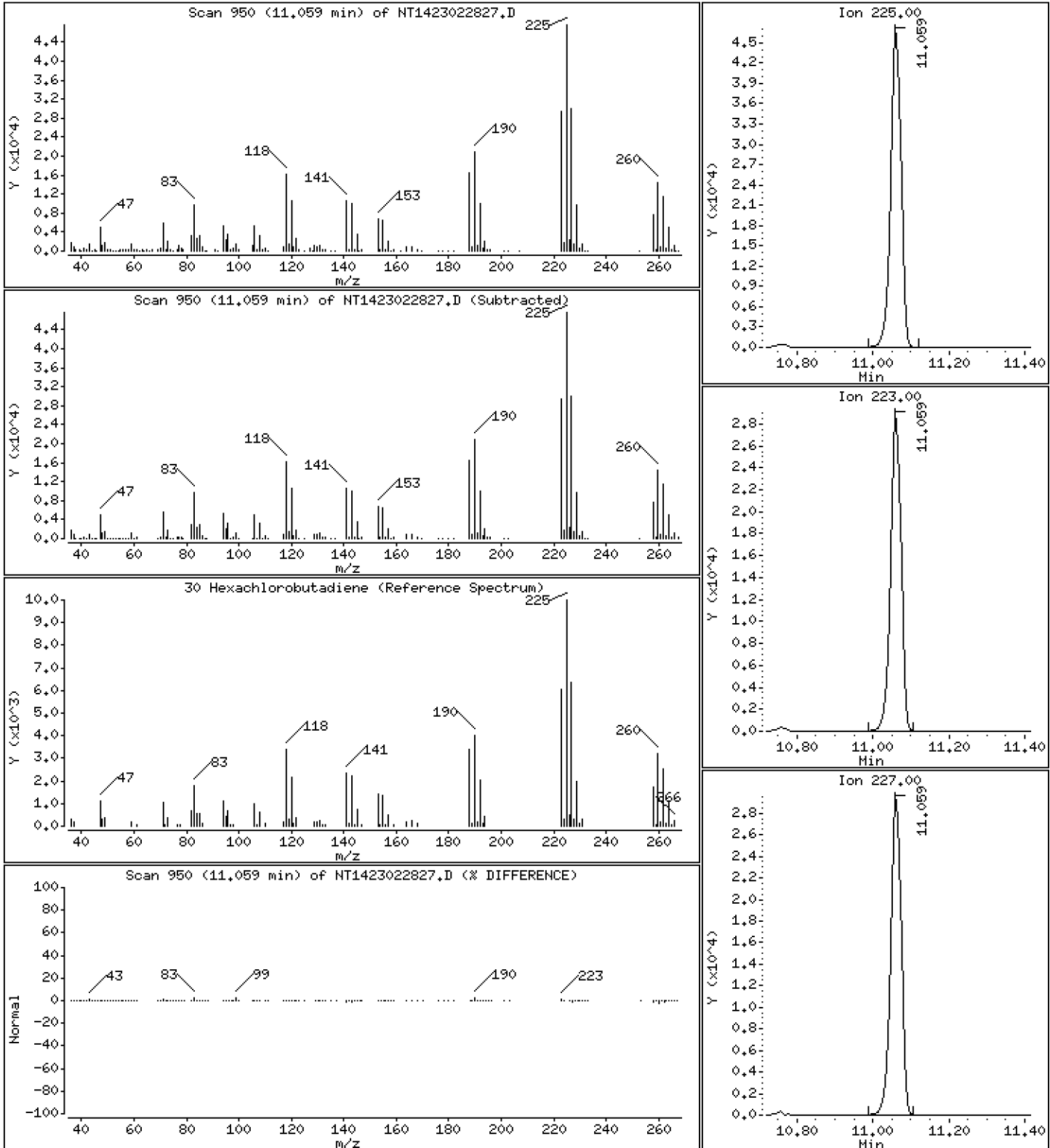
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,019 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

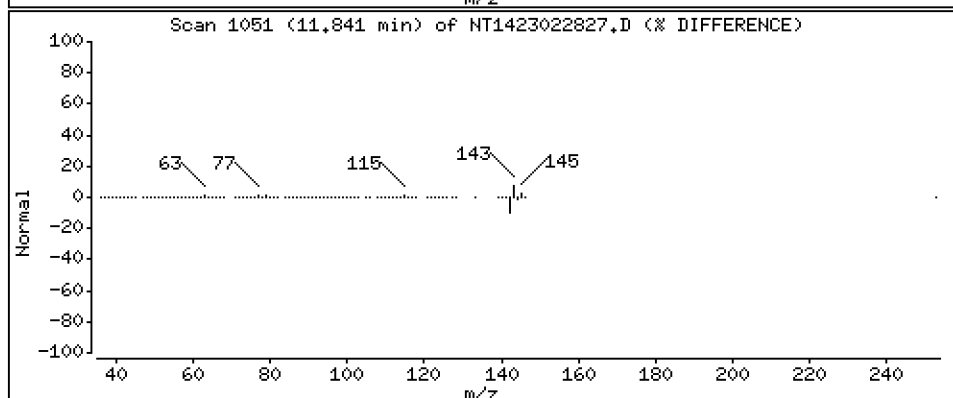
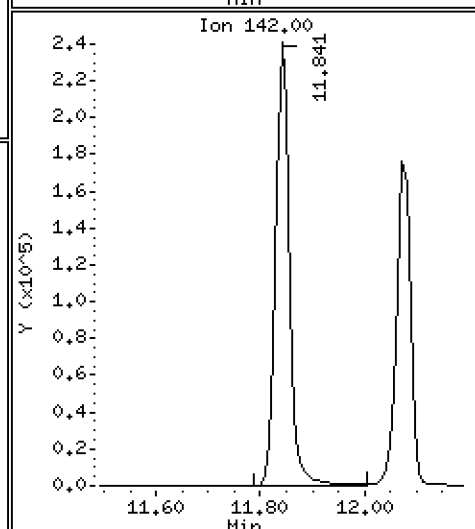
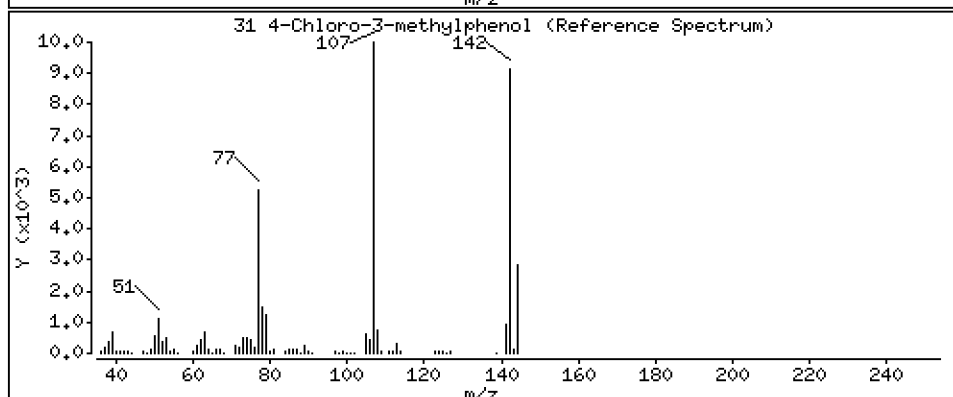
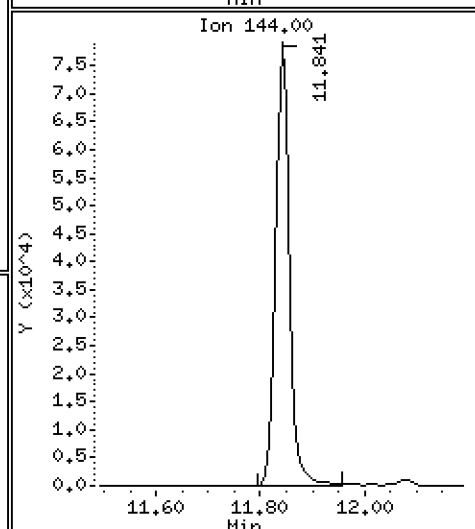
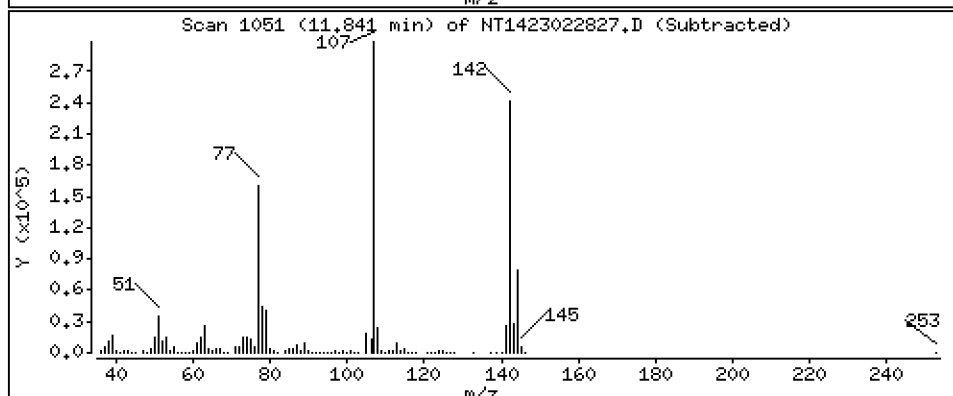
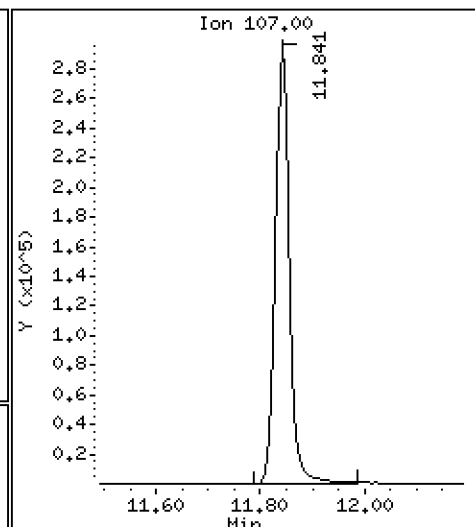
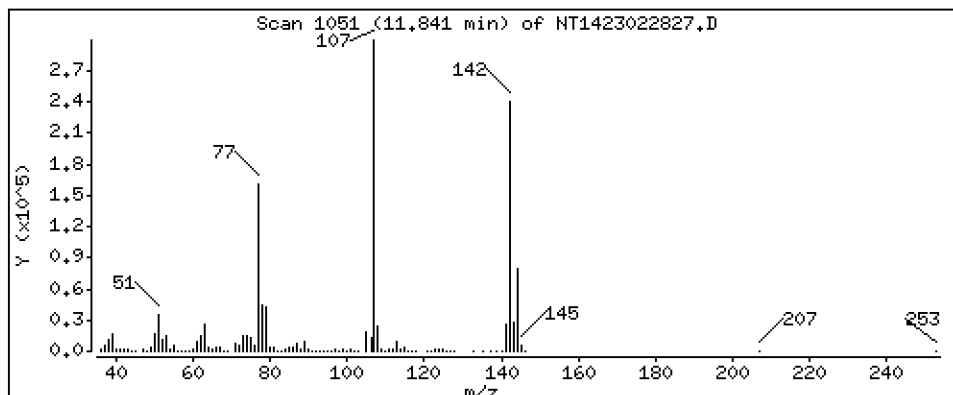
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 16,50 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

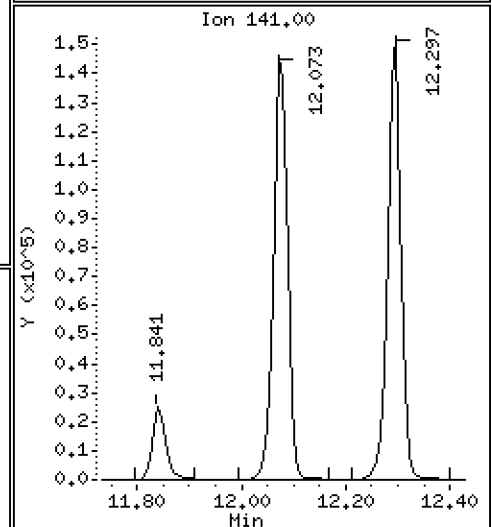
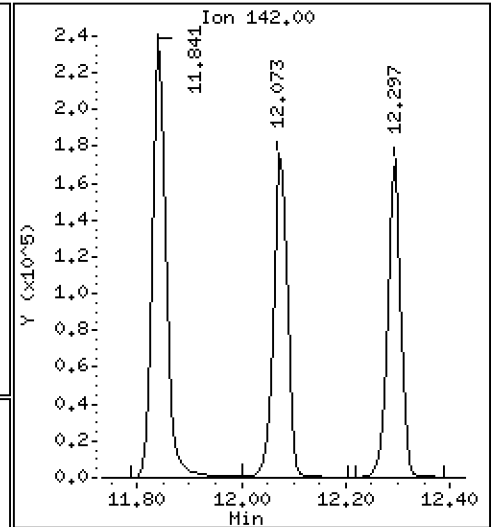
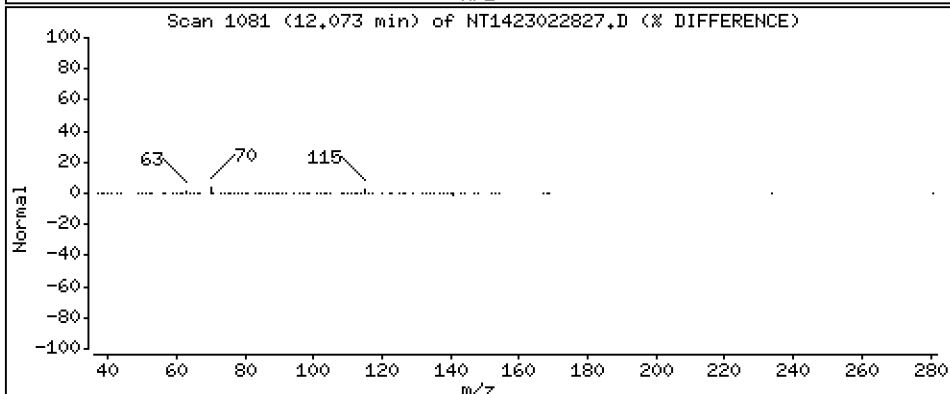
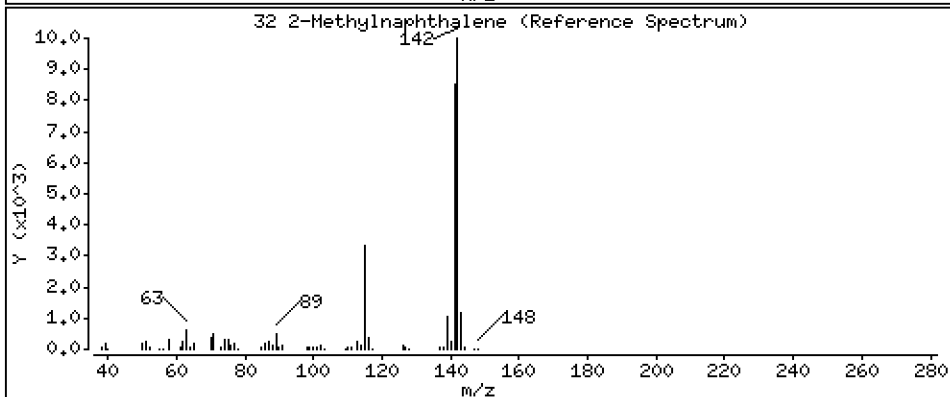
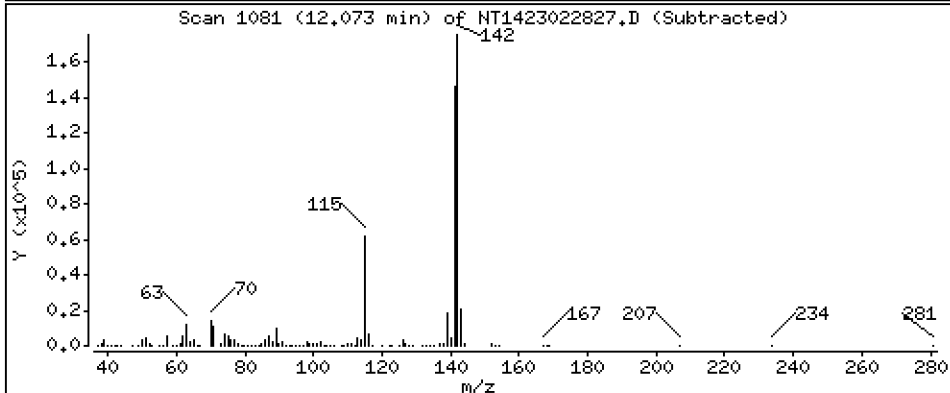
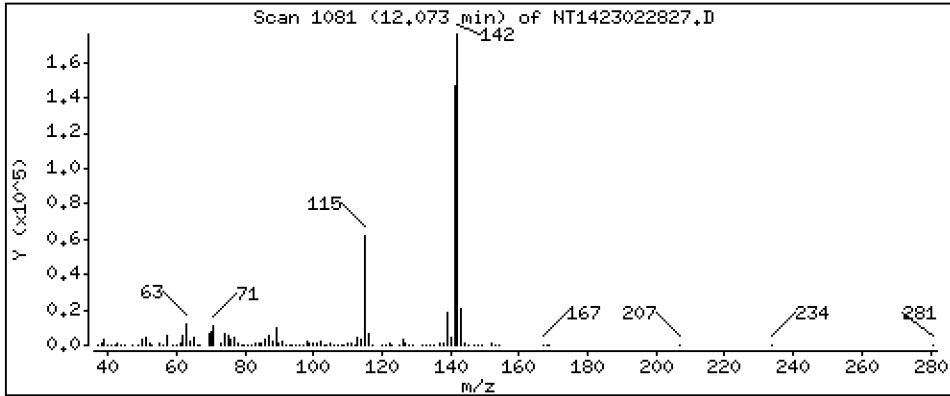
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 3,832 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

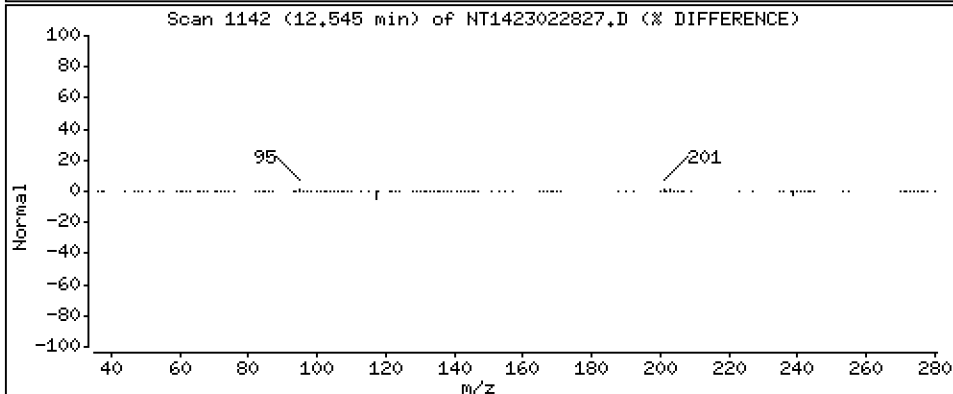
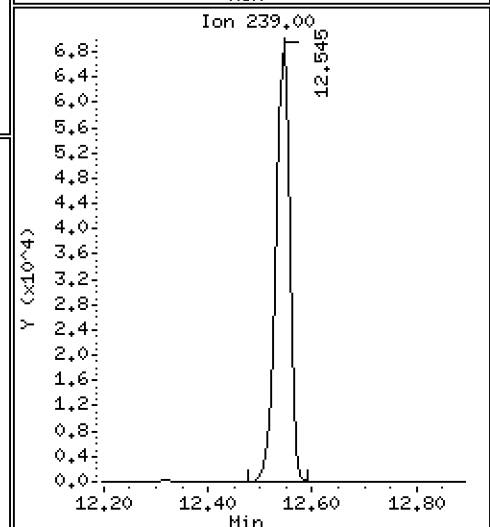
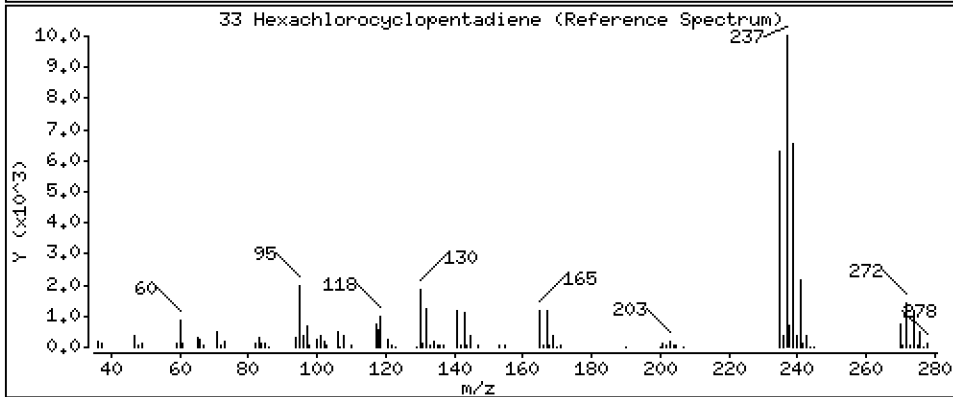
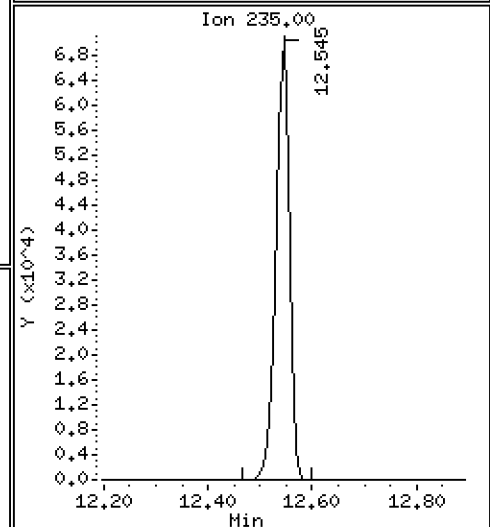
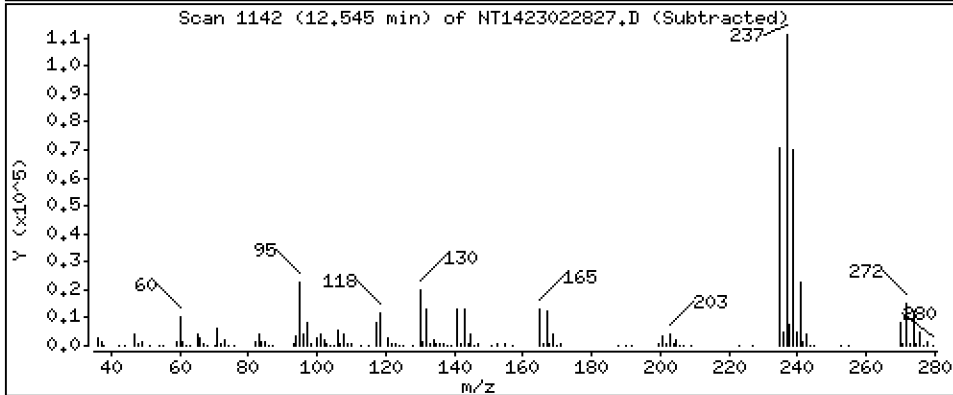
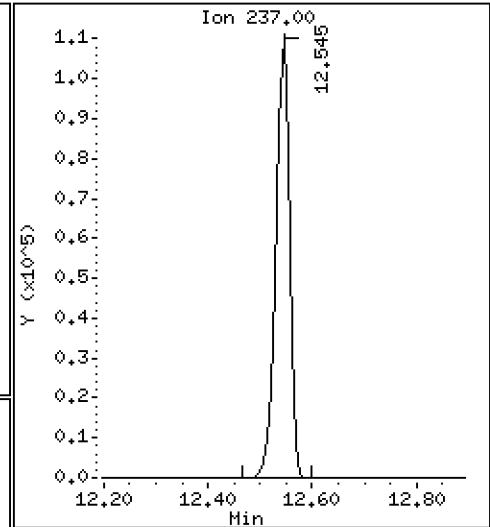
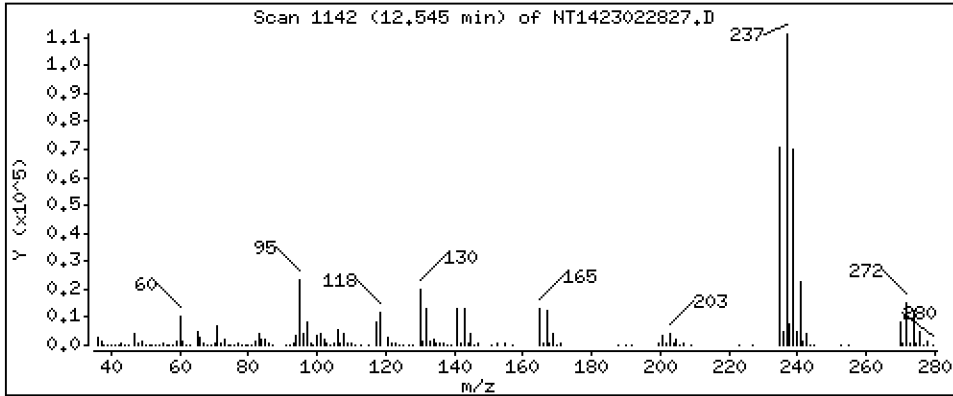
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 7,331 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

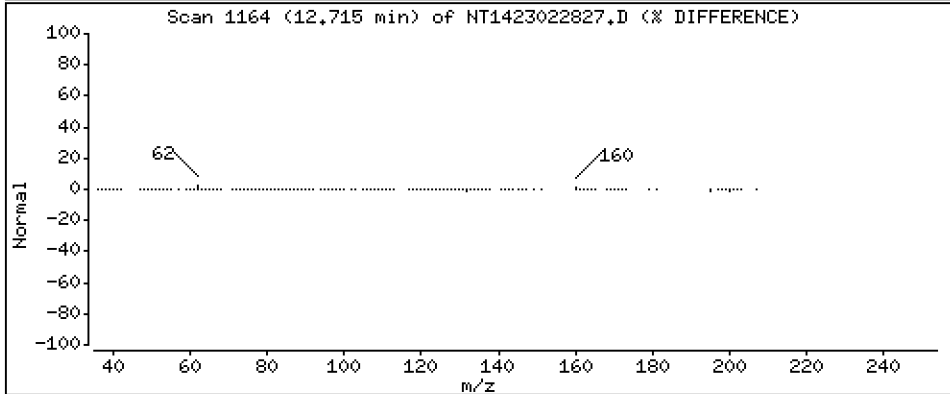
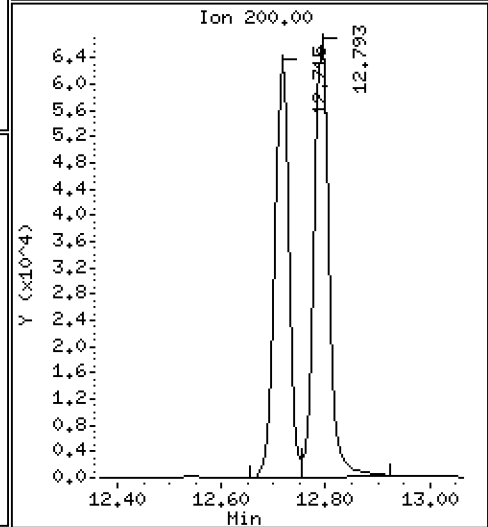
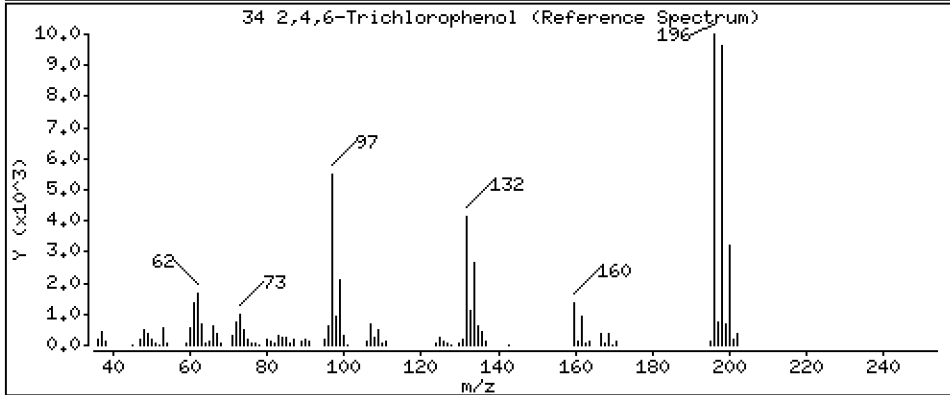
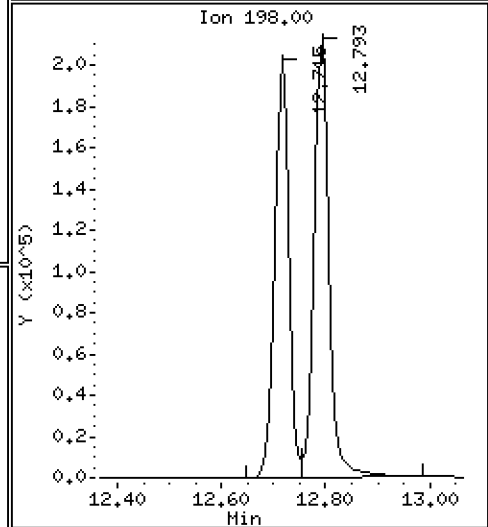
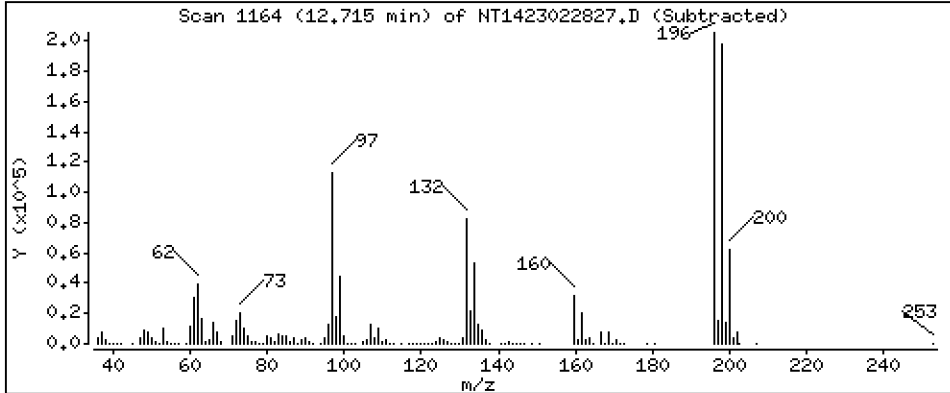
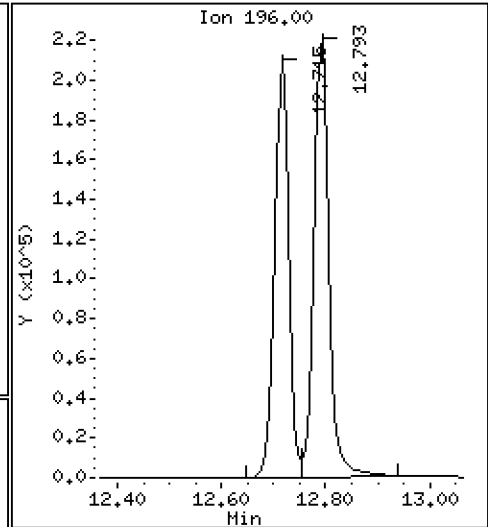
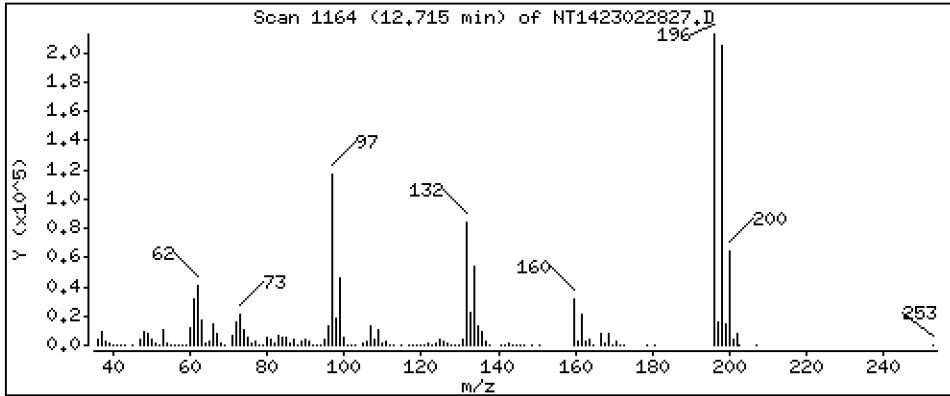
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 15,74 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

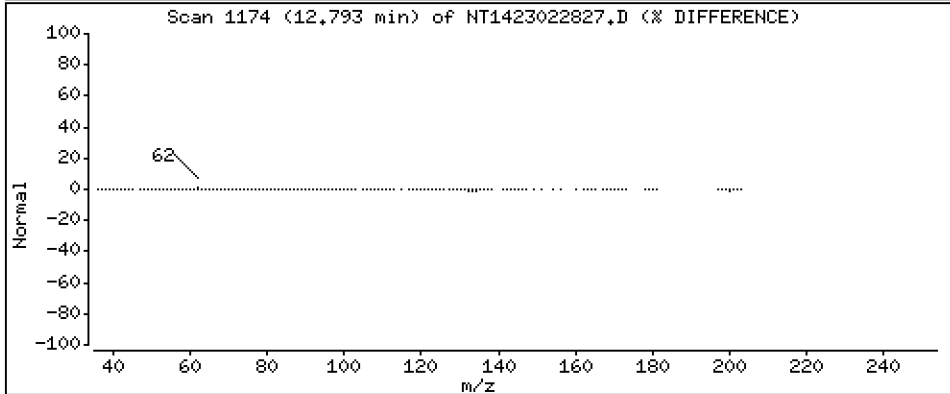
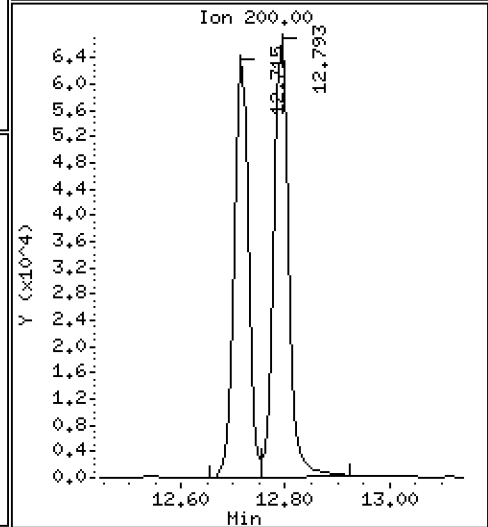
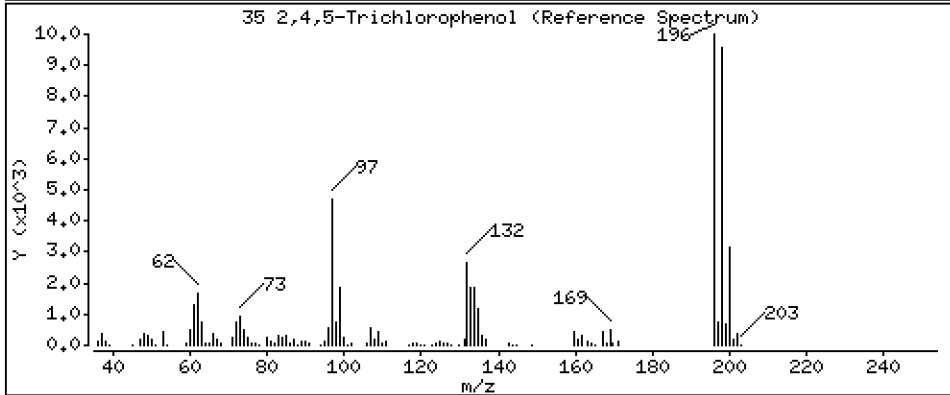
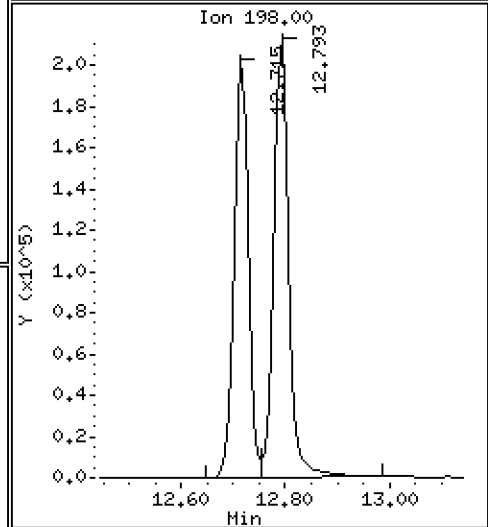
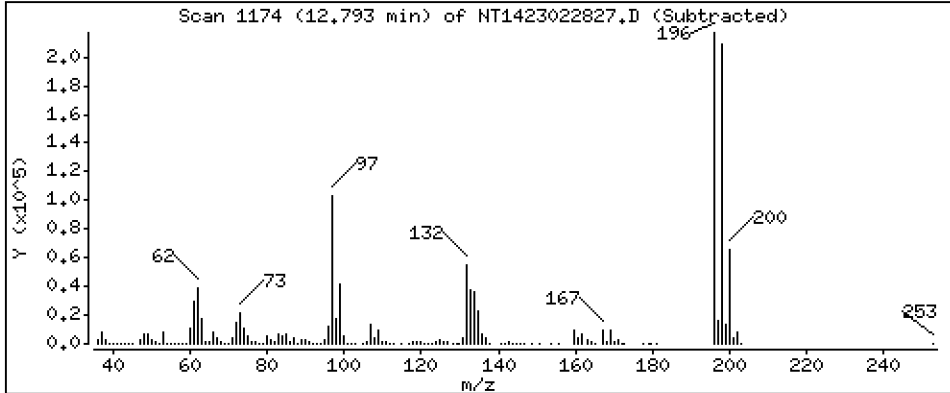
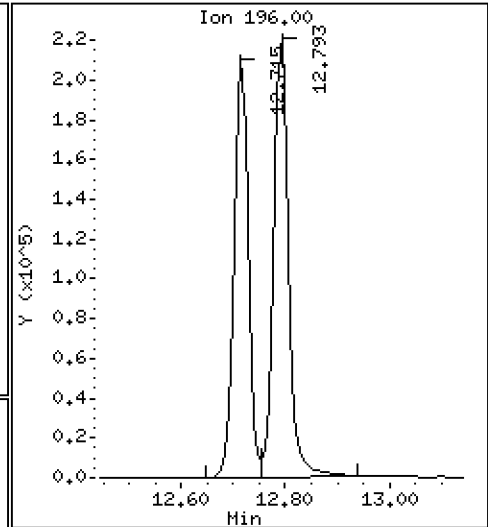
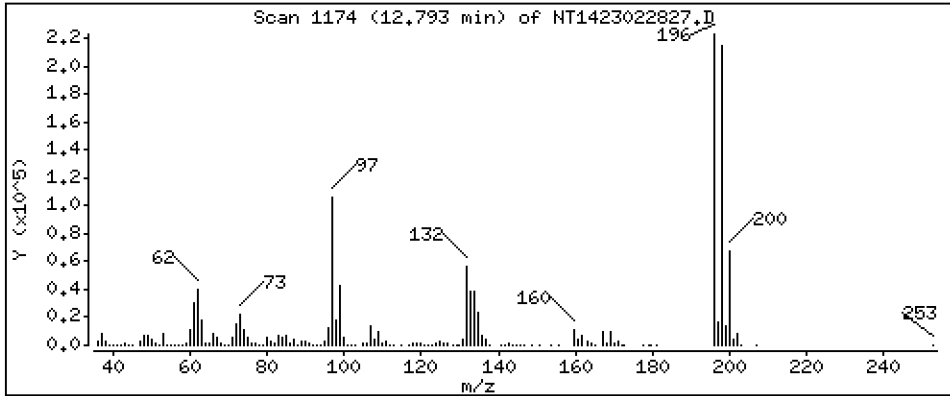
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 16,02 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

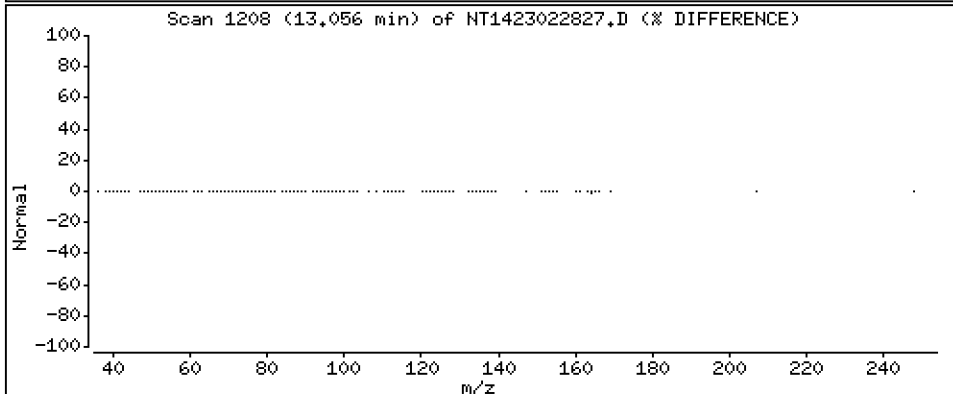
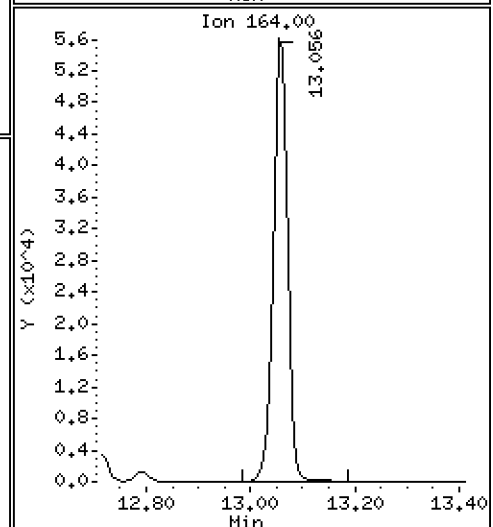
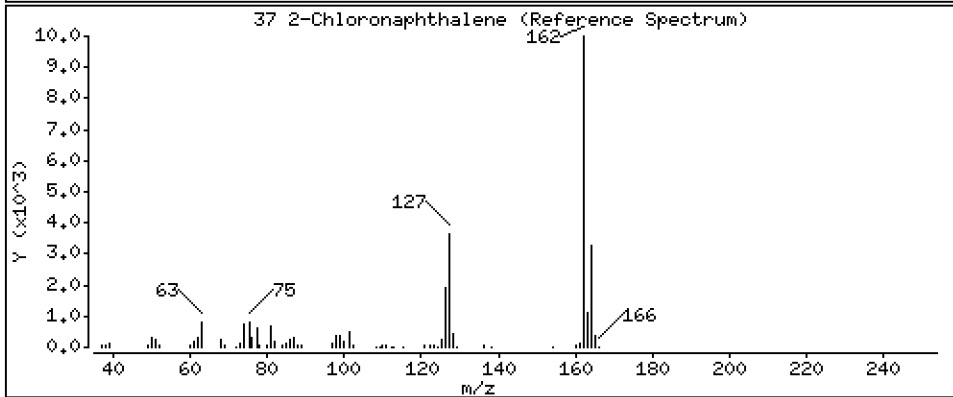
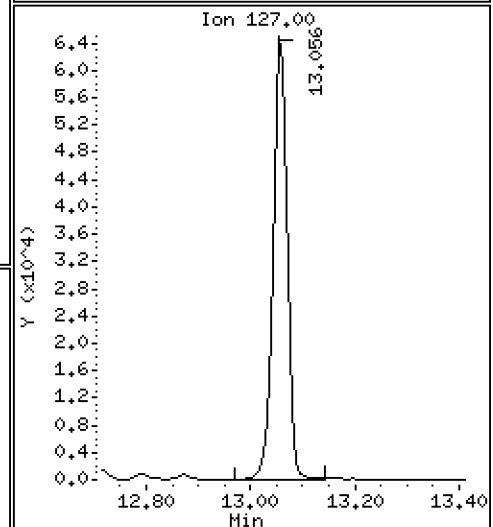
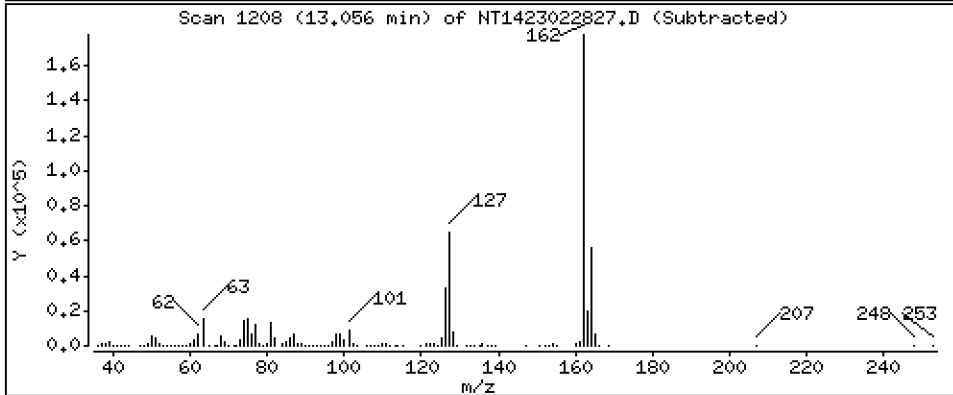
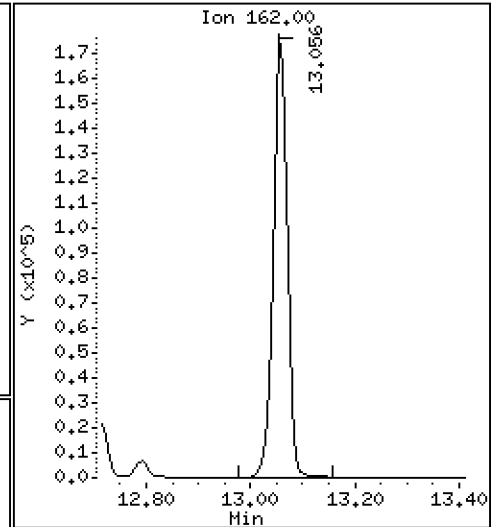
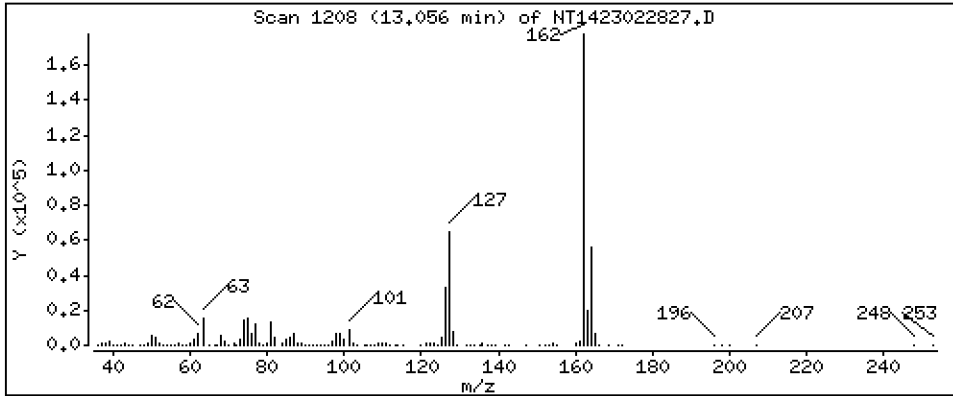
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,126 ug/mL





Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

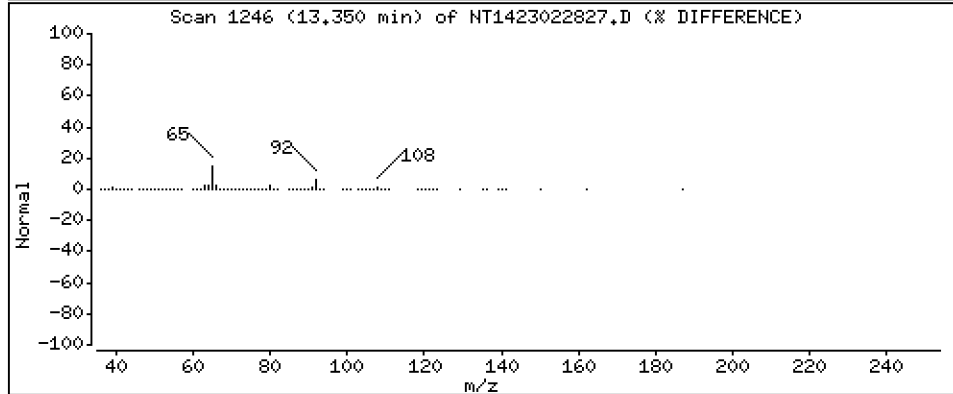
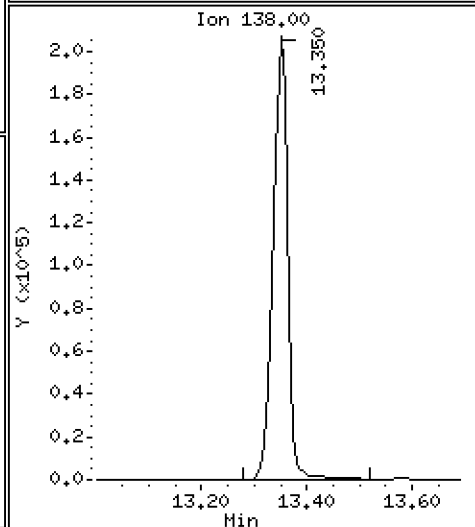
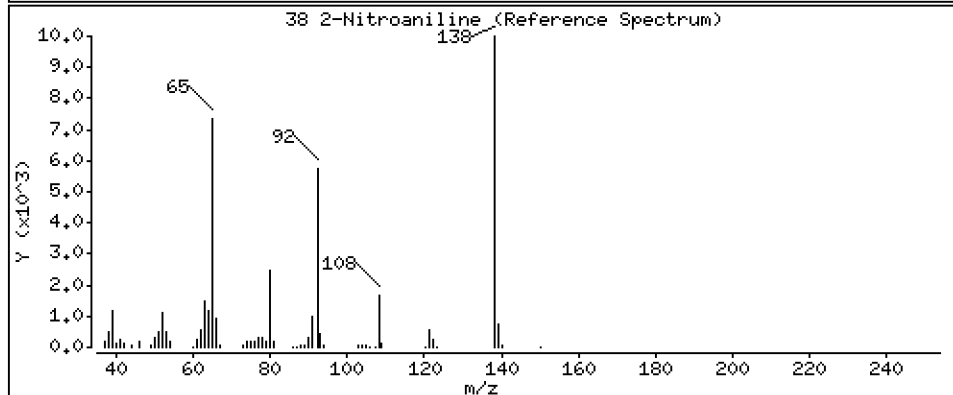
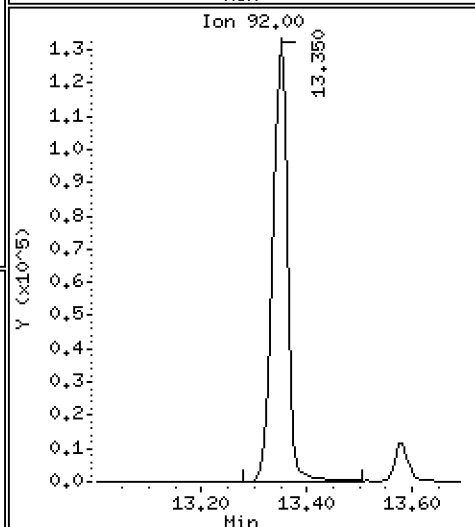
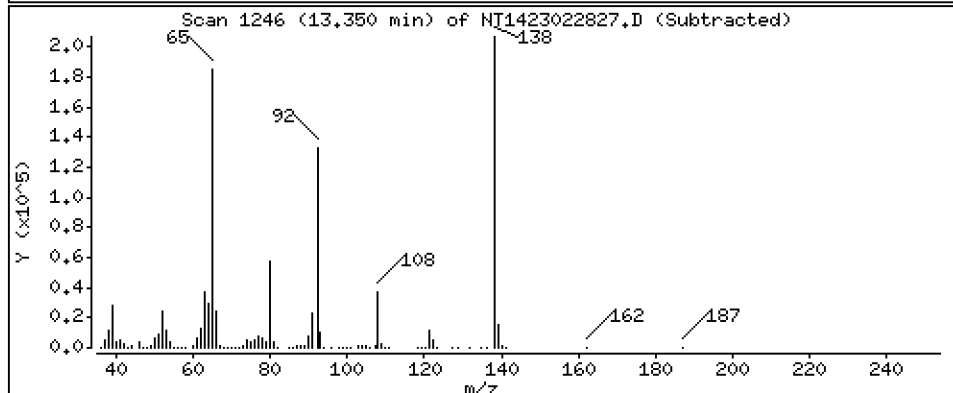
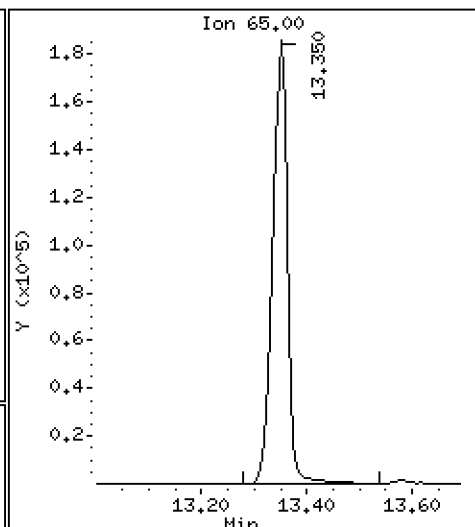
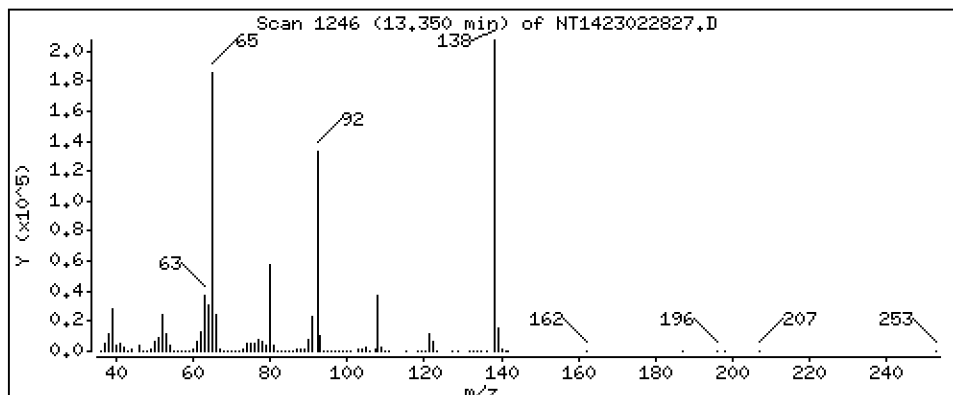
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 17,41 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

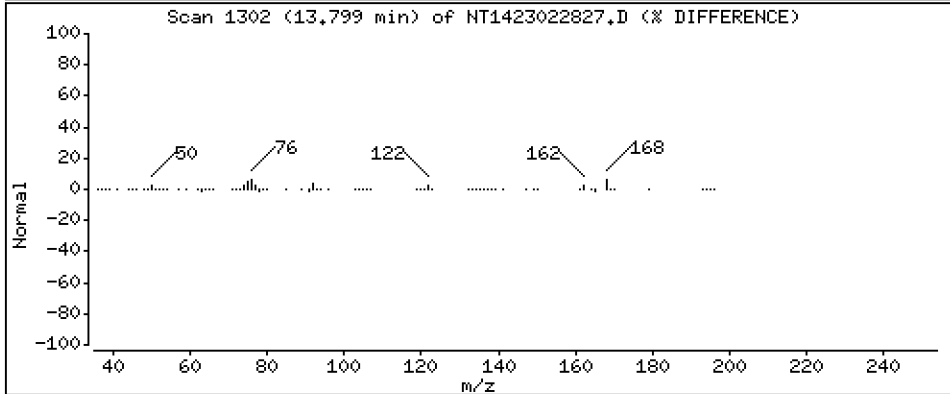
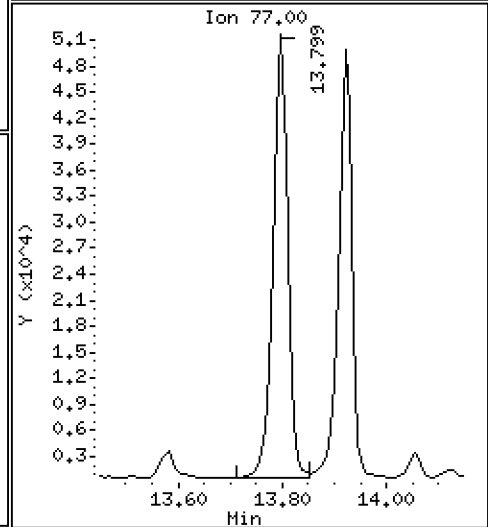
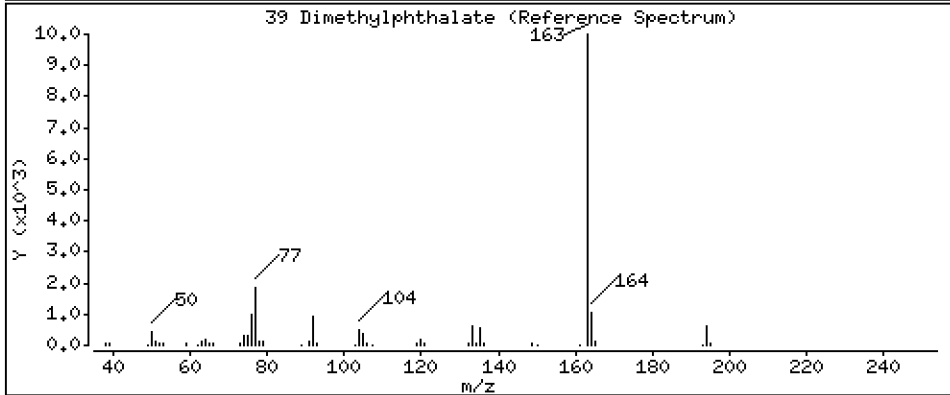
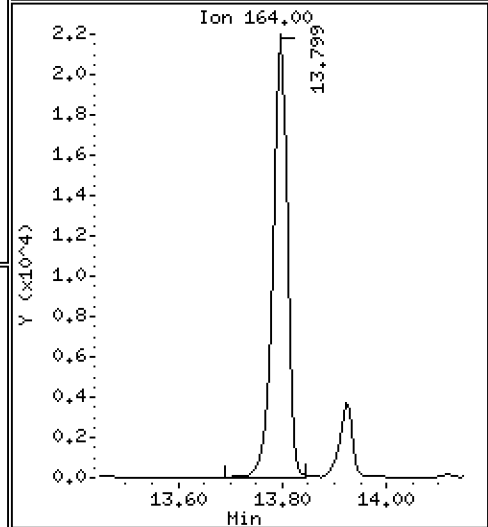
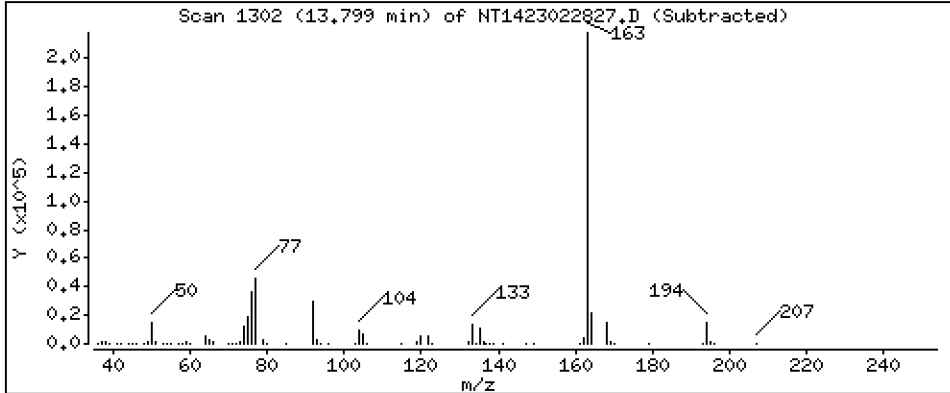
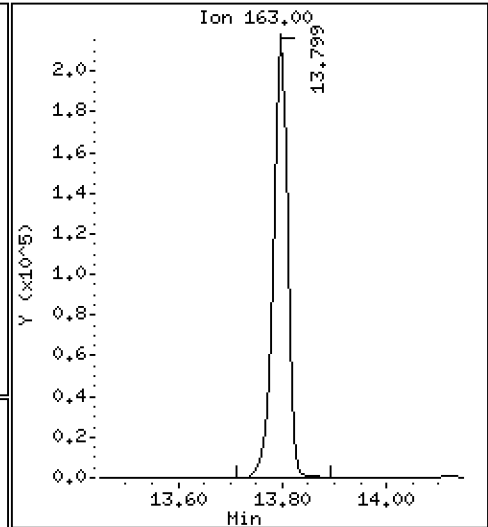
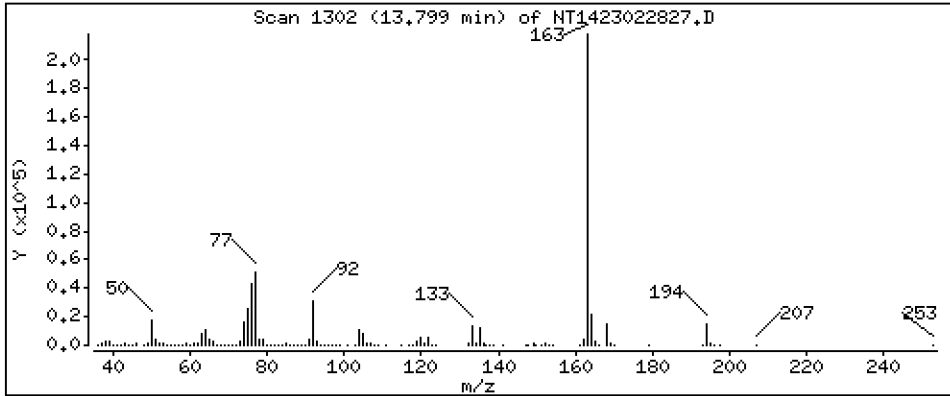
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,061 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

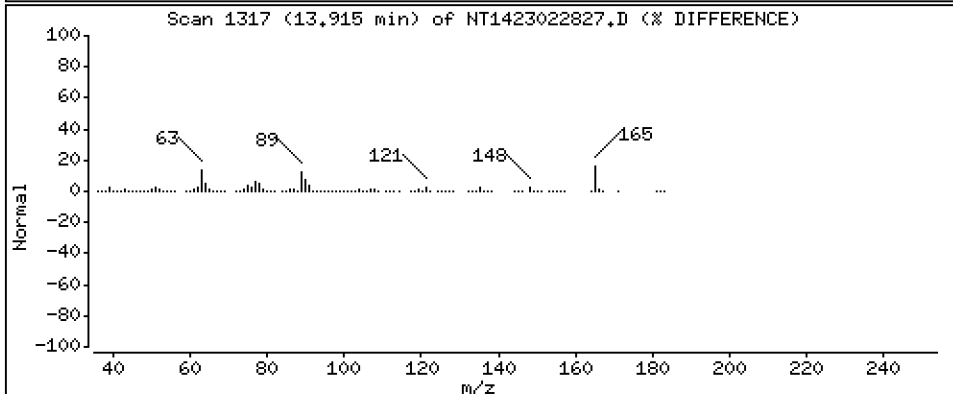
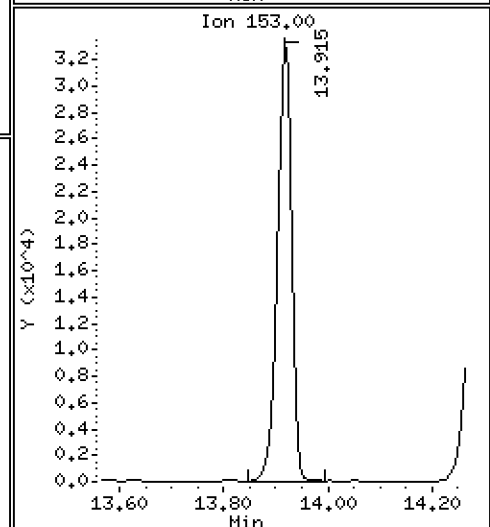
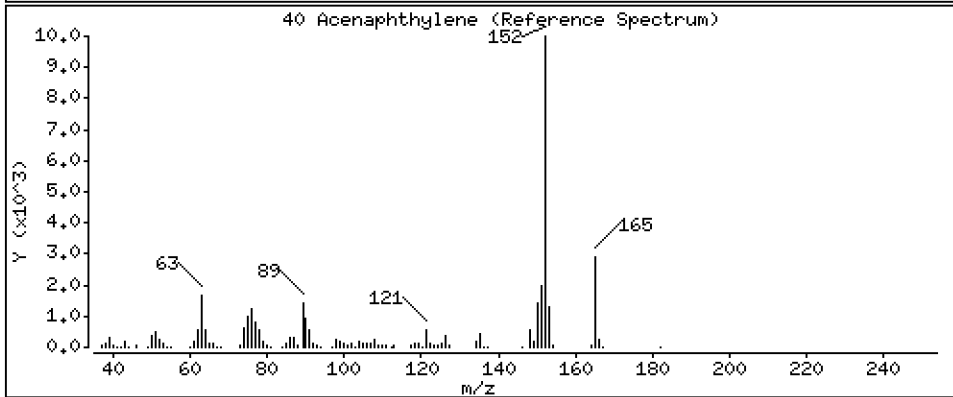
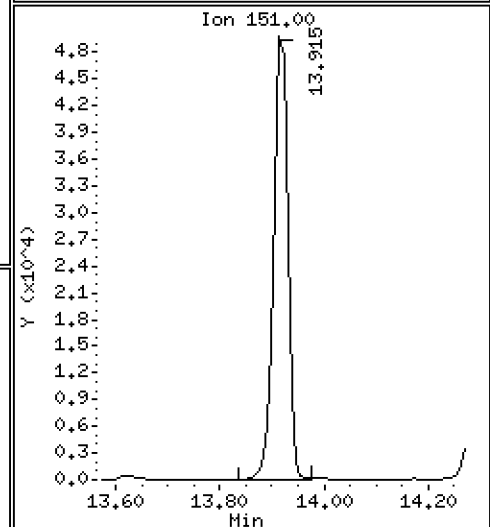
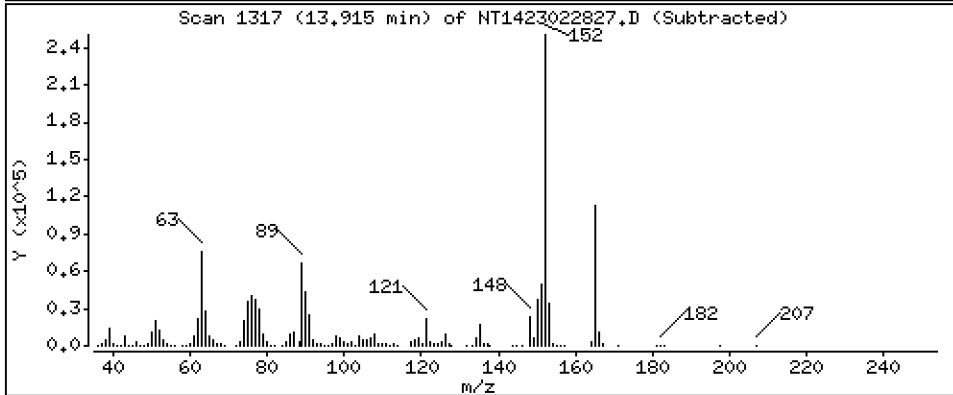
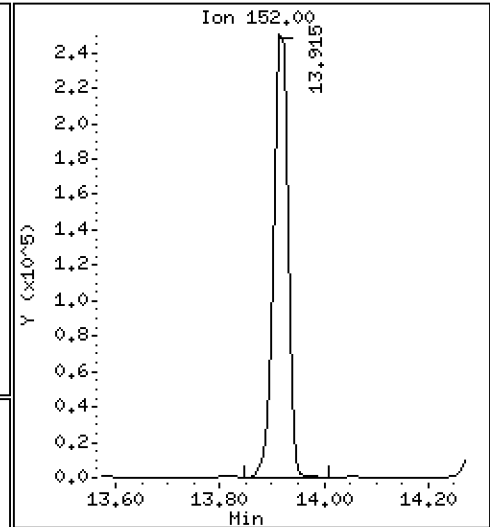
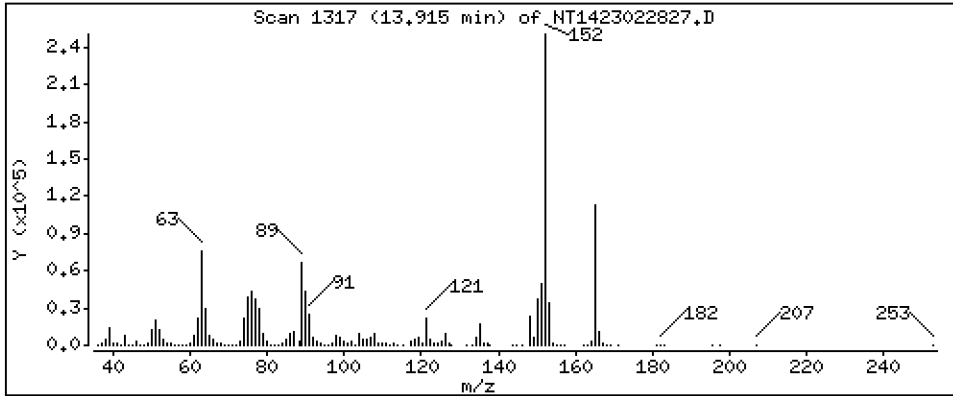
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,076 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

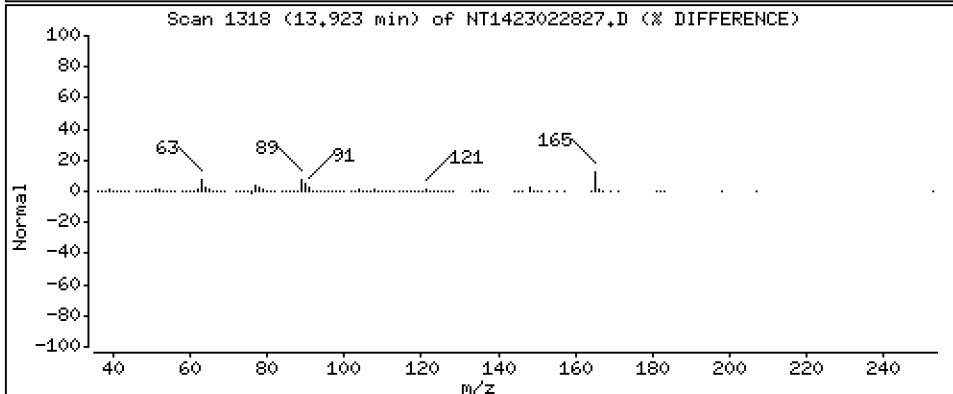
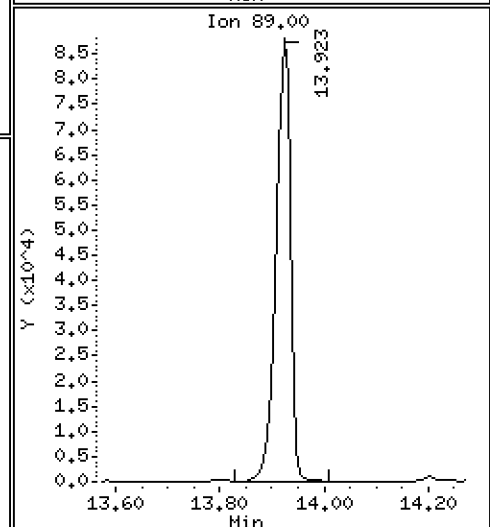
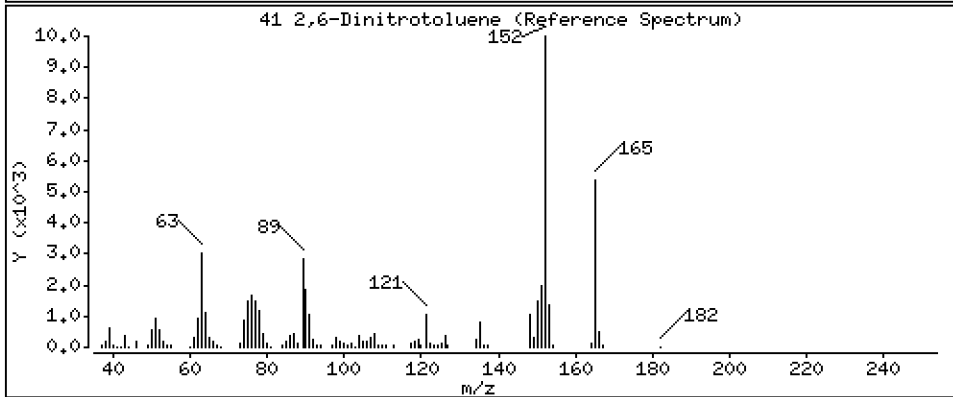
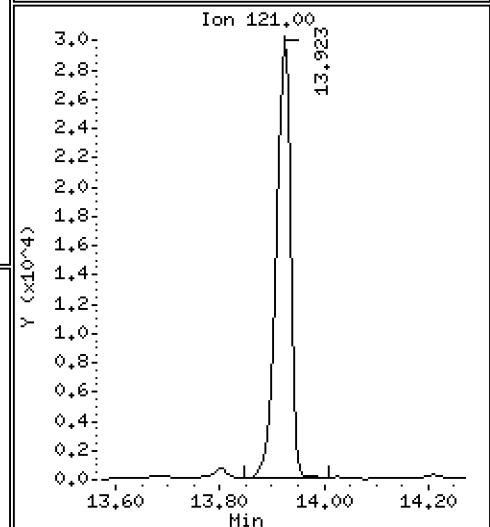
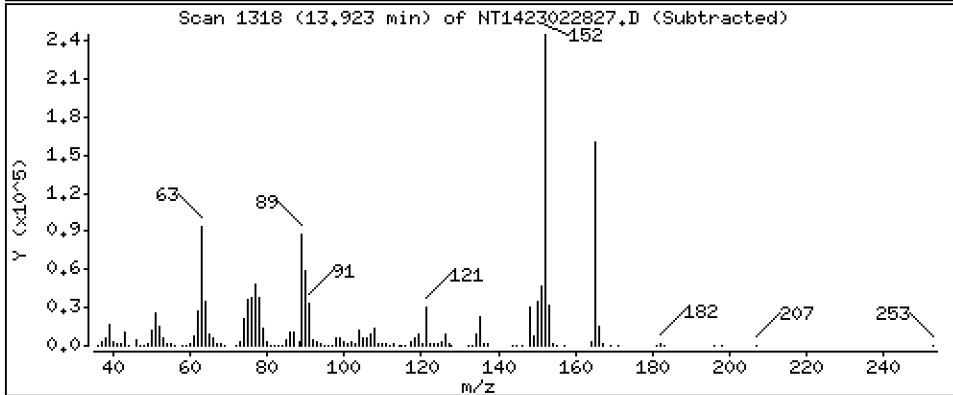
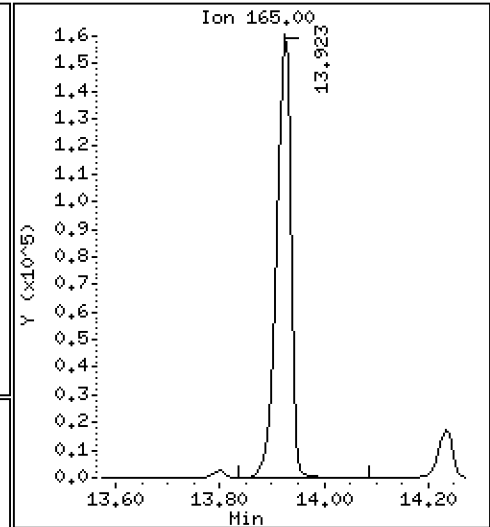
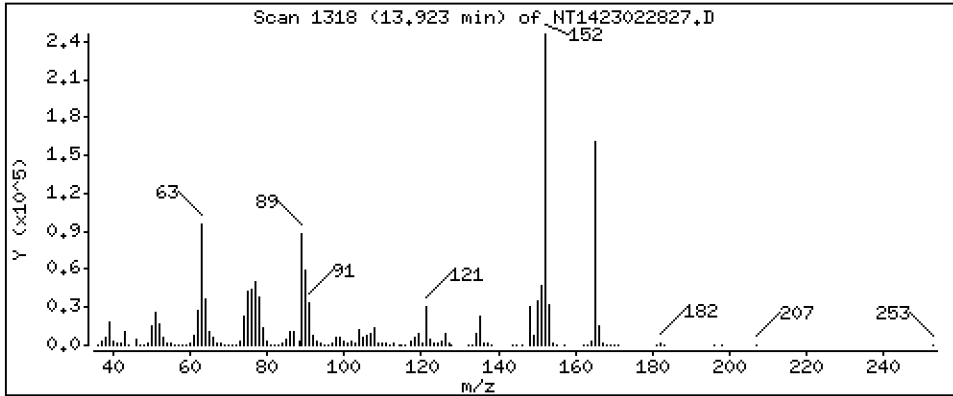
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 16,20 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

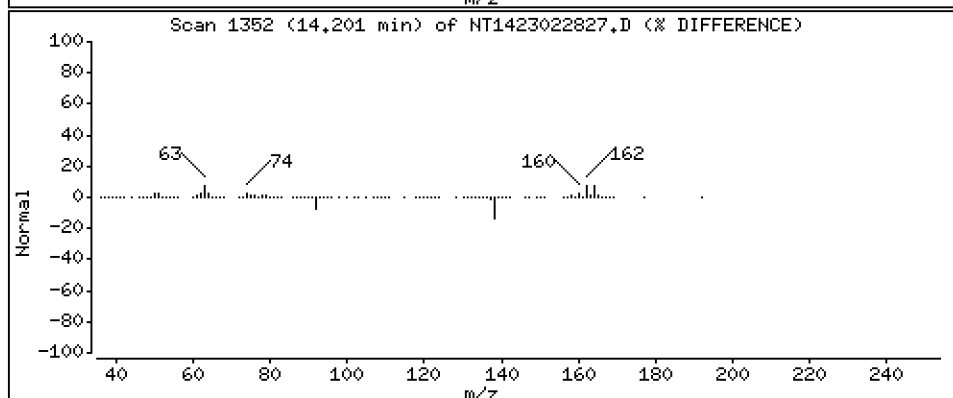
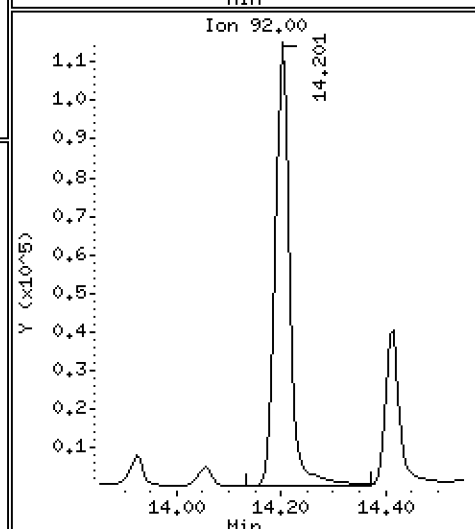
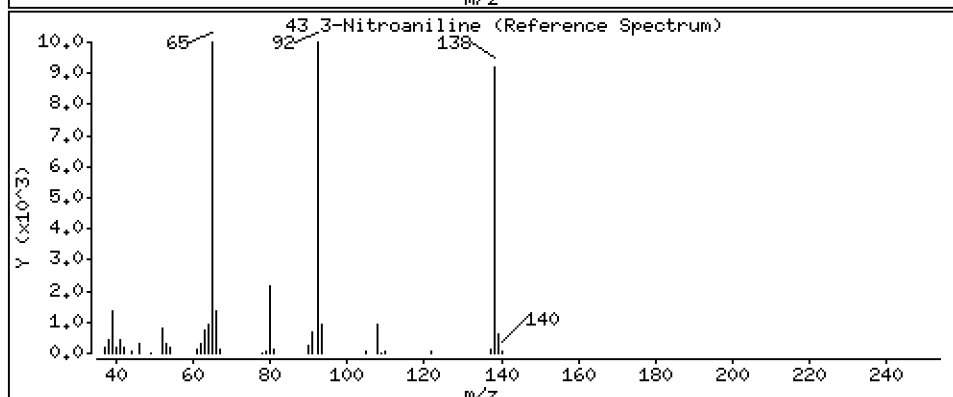
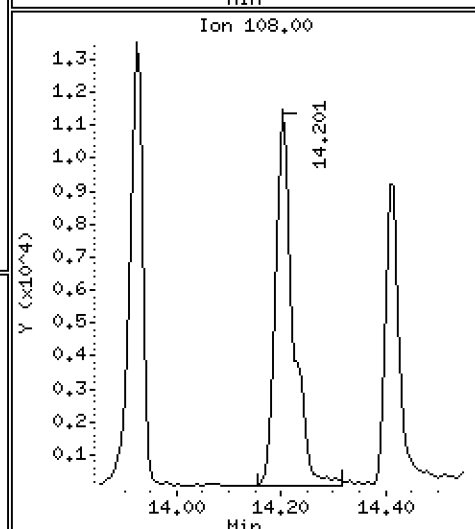
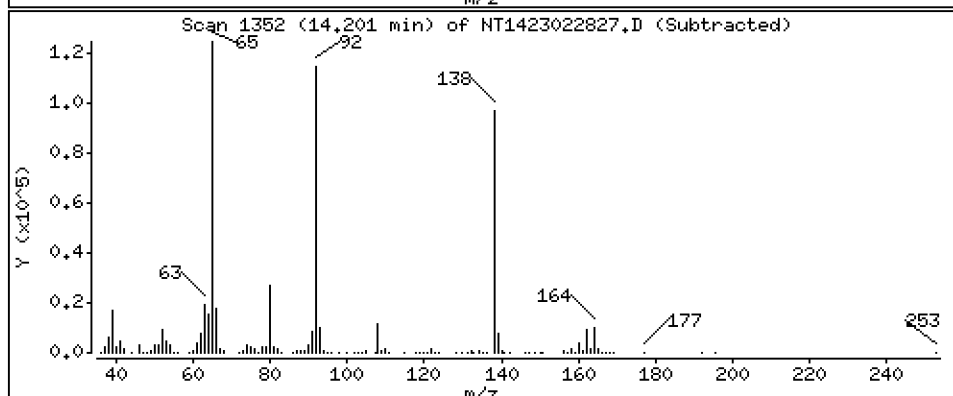
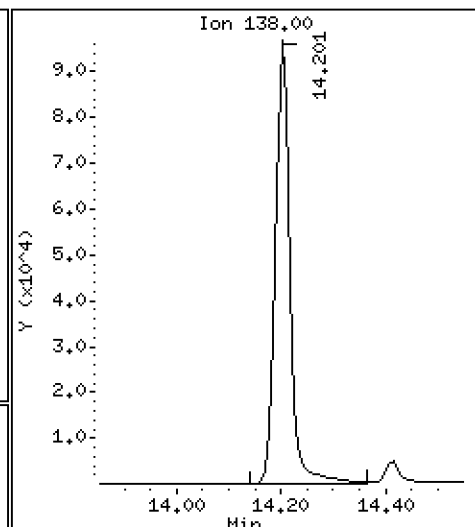
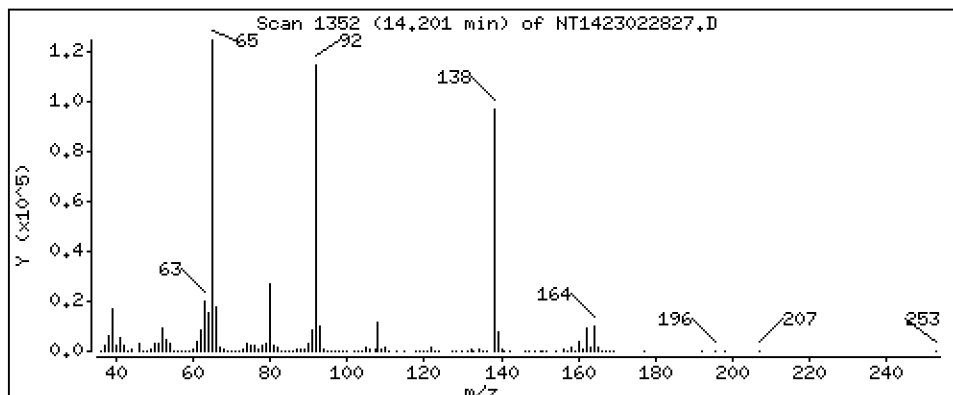
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 9,600 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

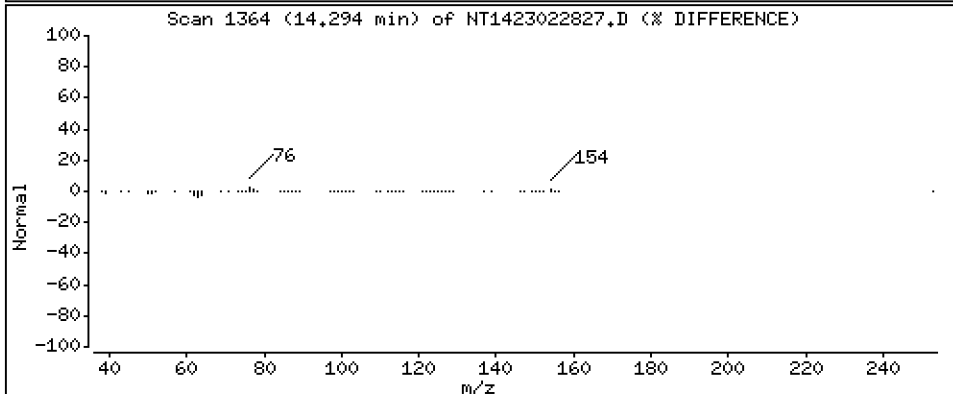
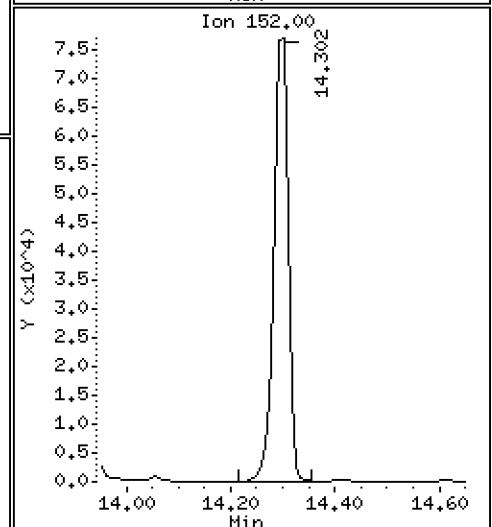
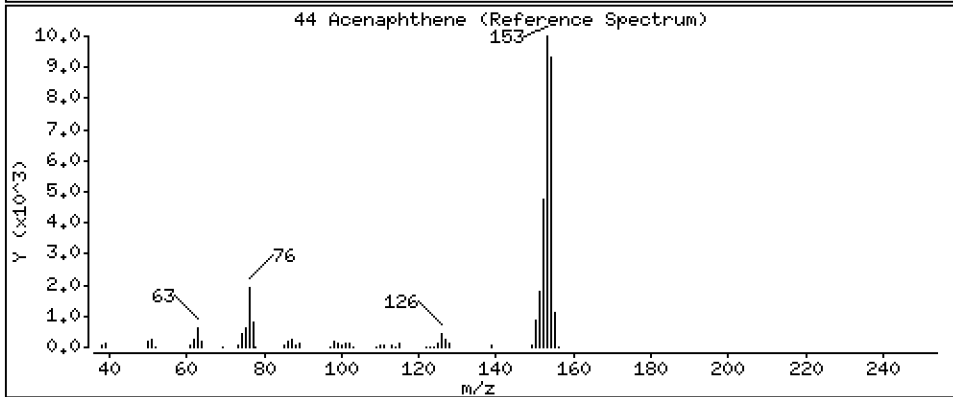
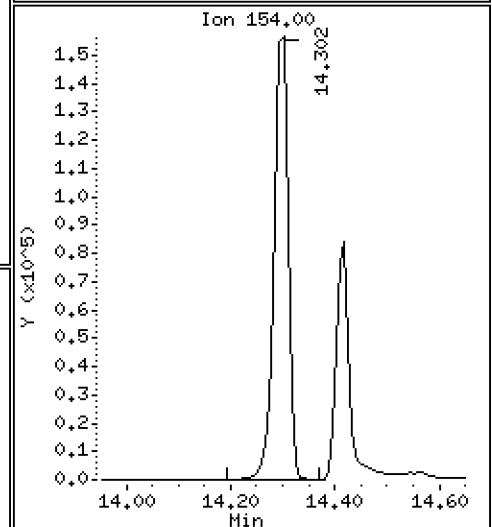
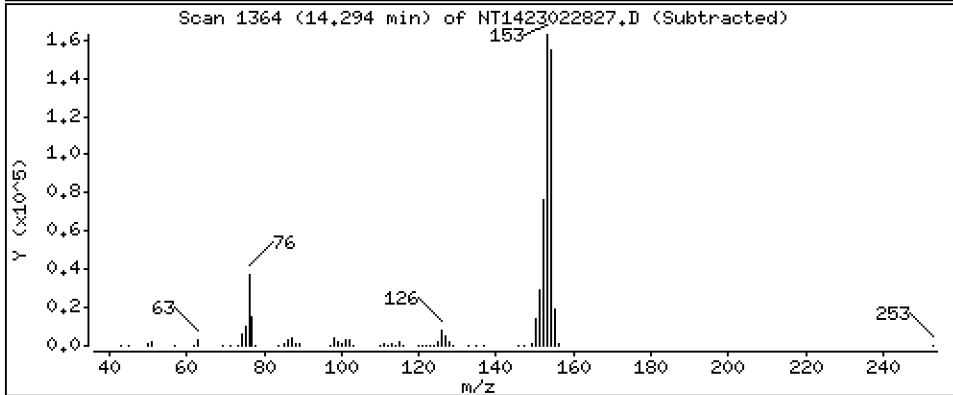
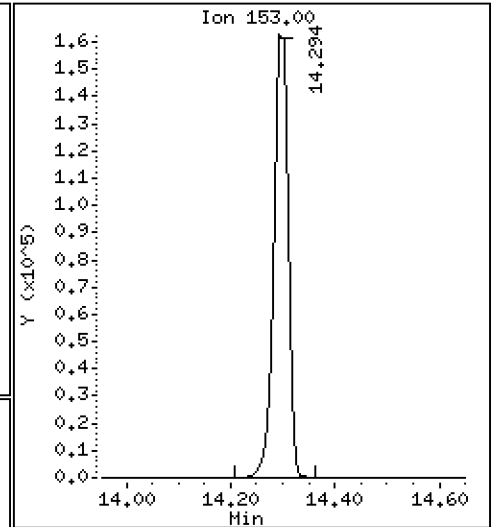
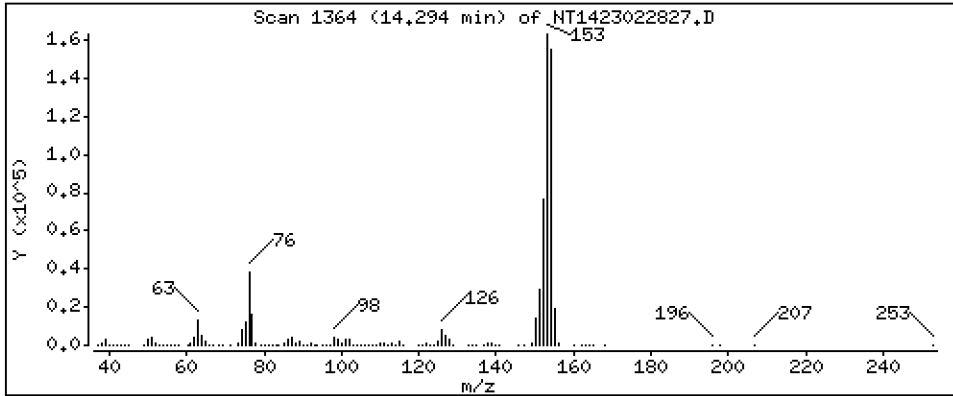
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,088 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

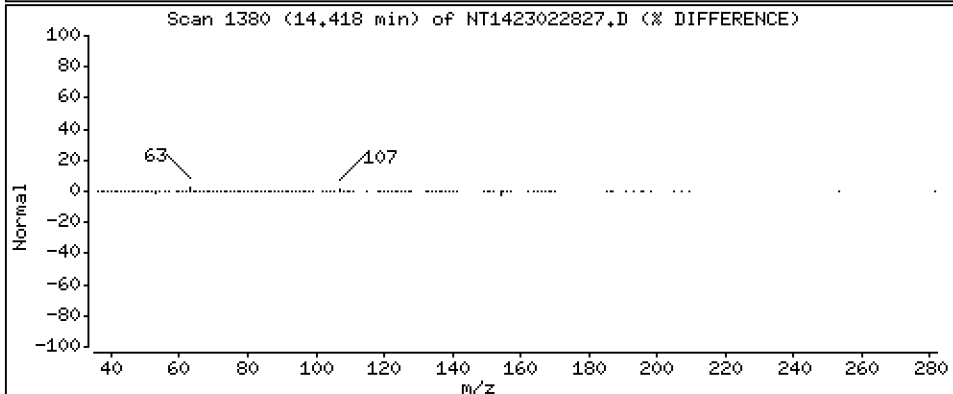
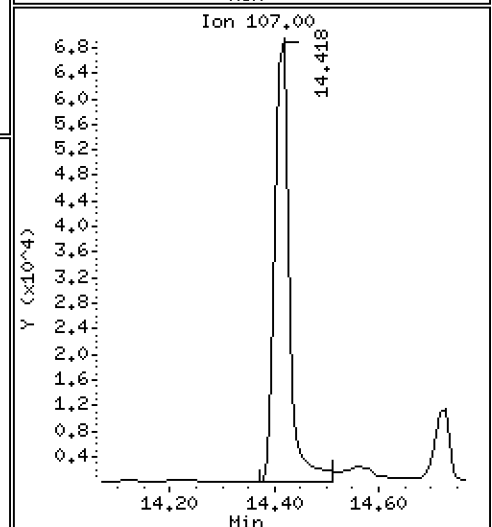
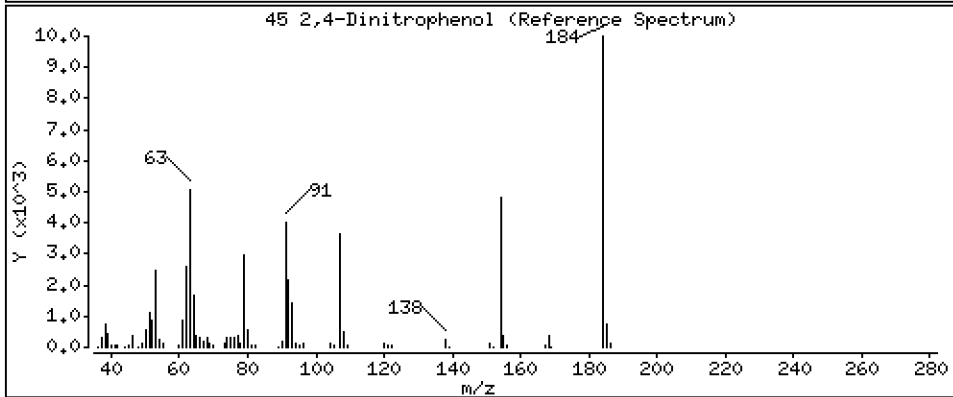
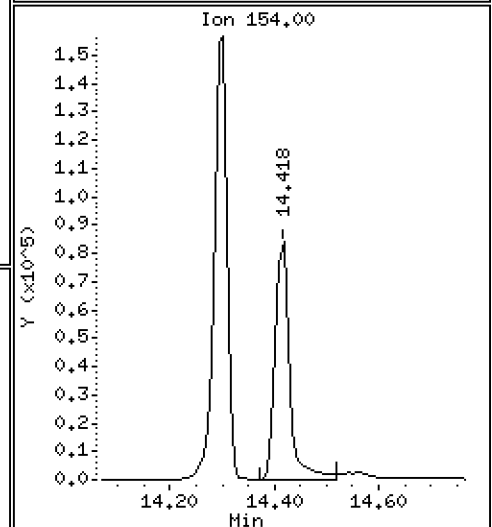
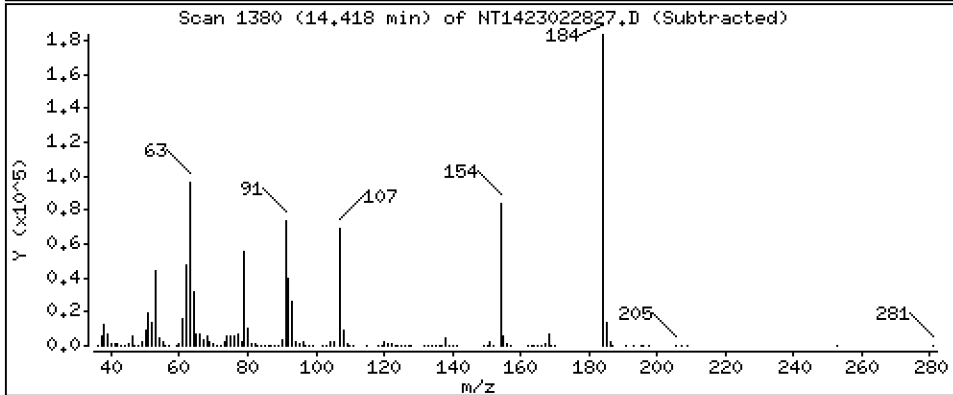
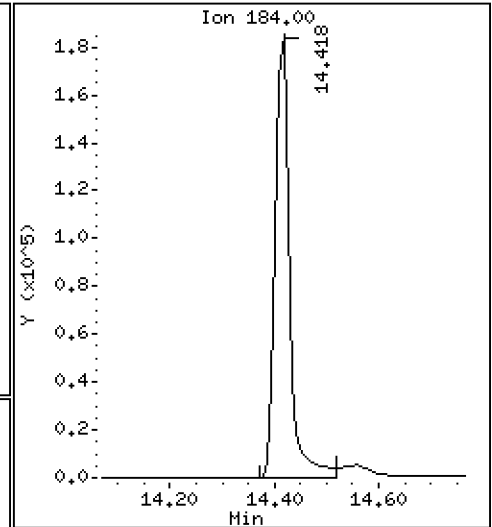
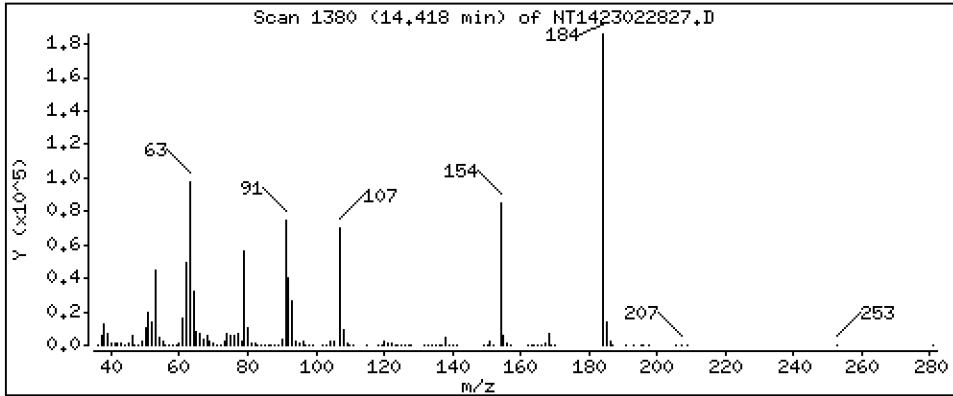
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 27,58 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

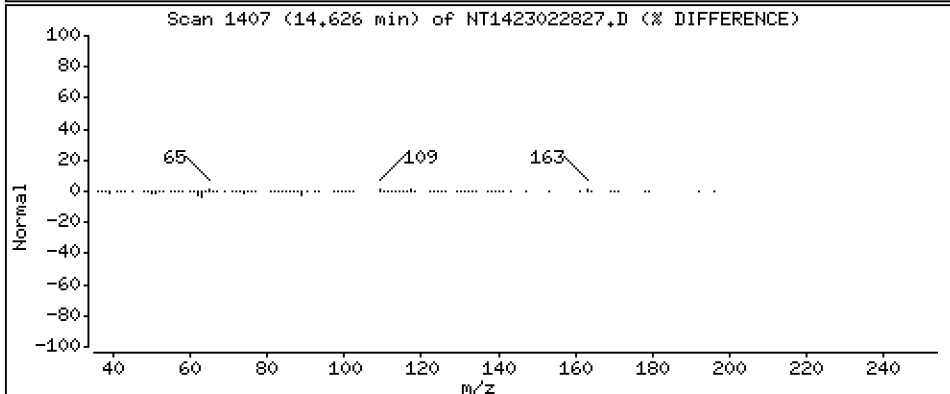
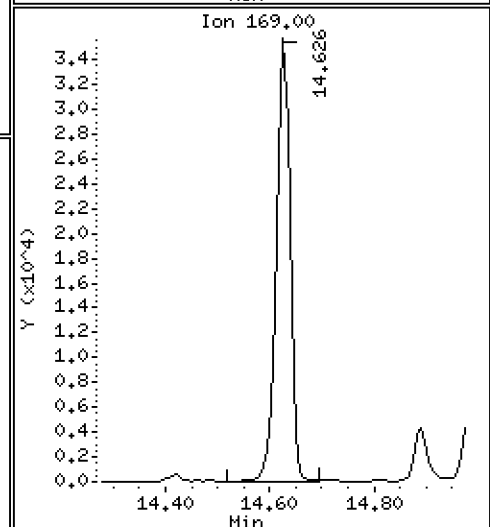
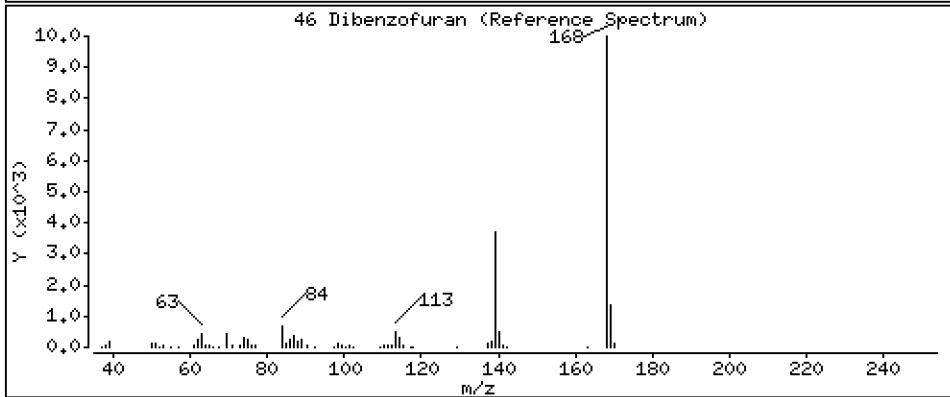
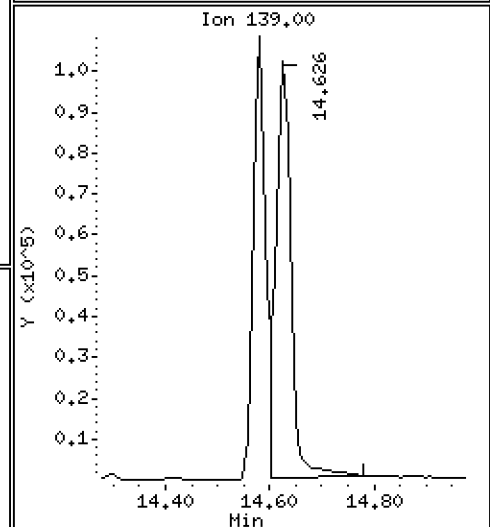
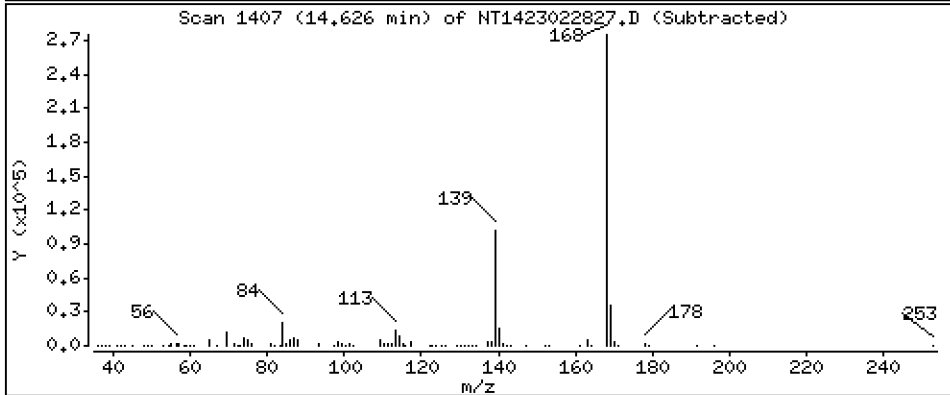
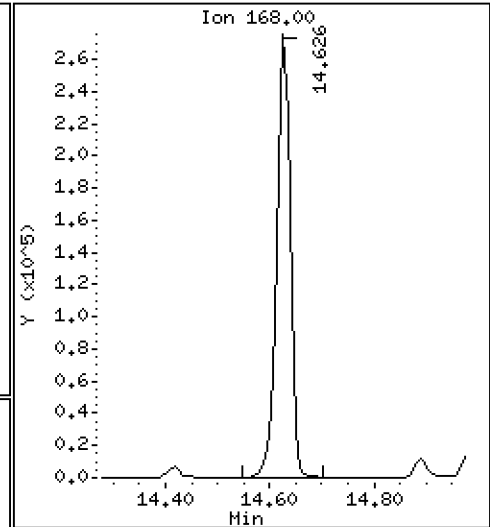
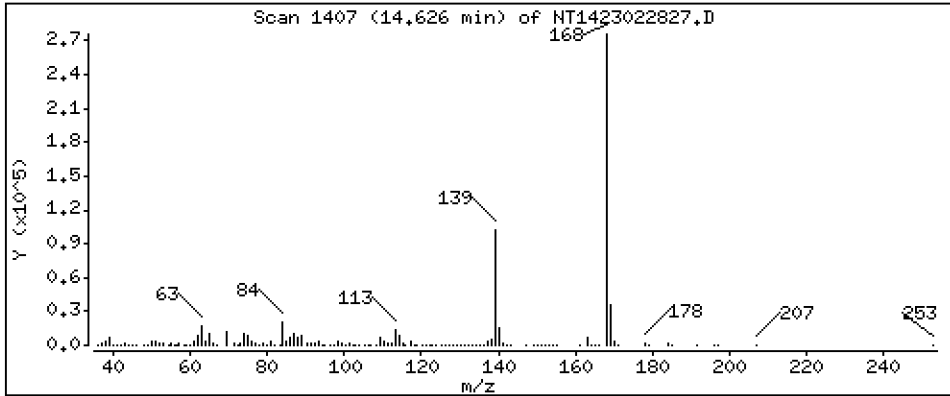
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,074 ug/mL





Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

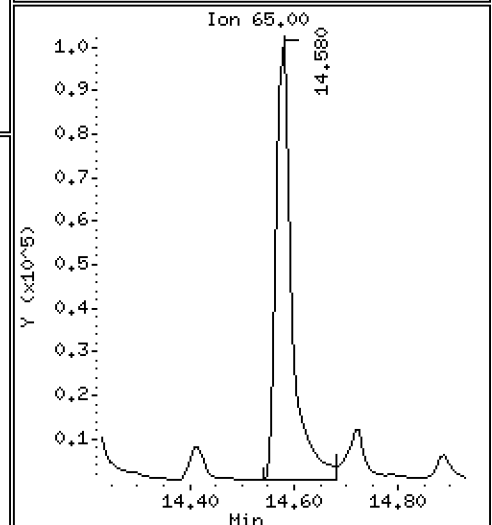
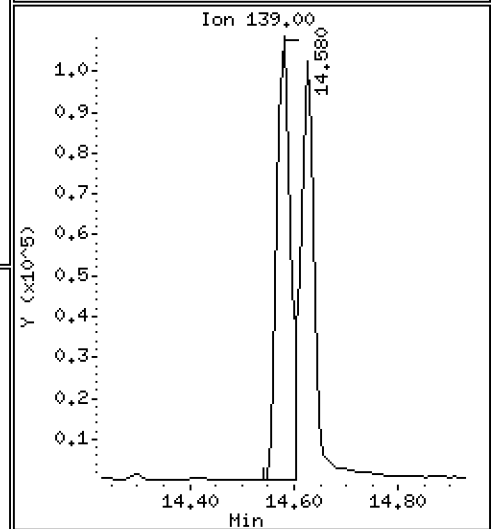
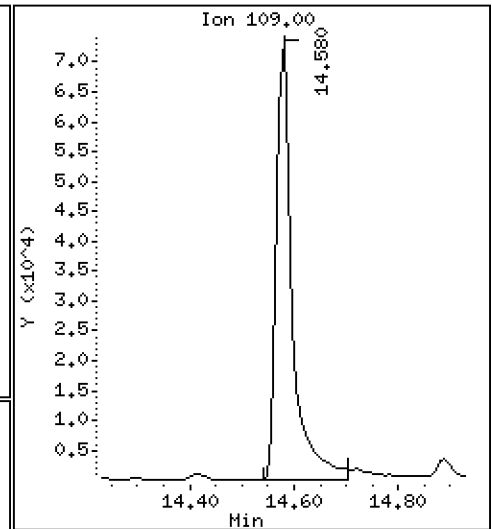
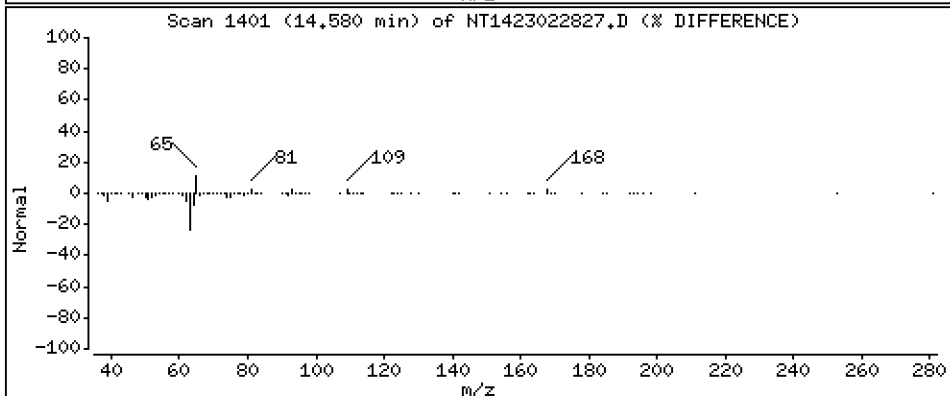
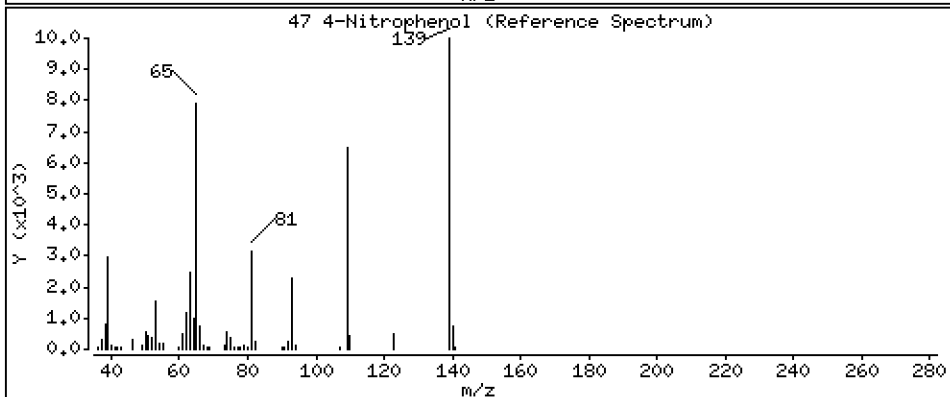
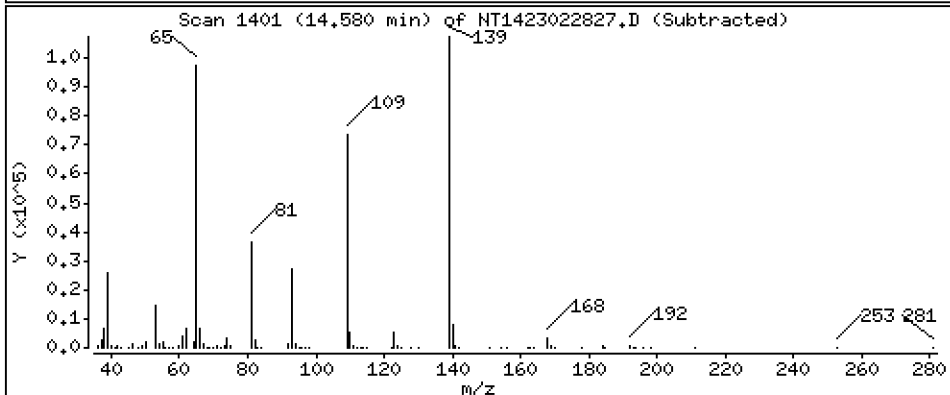
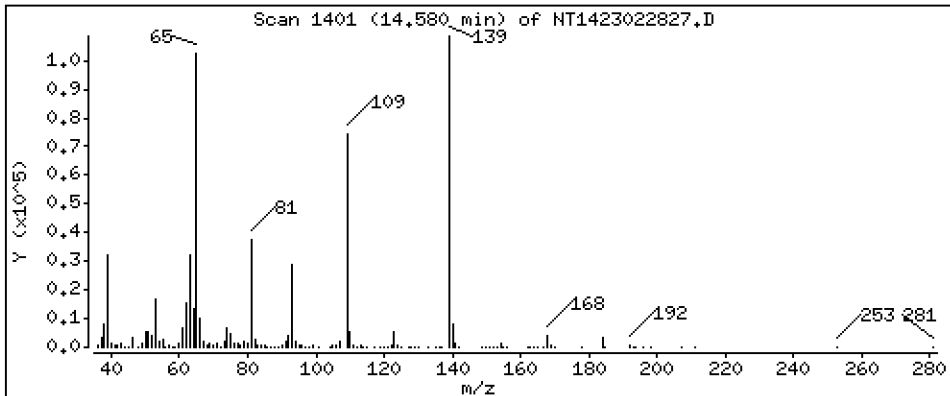
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 15,52 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

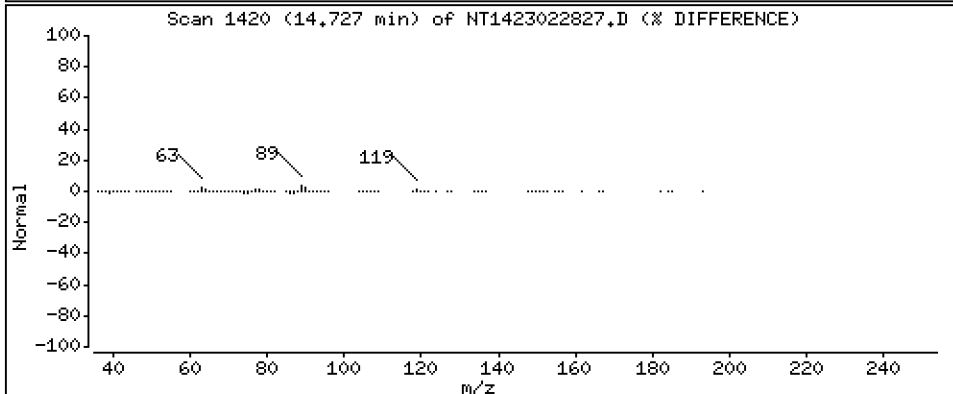
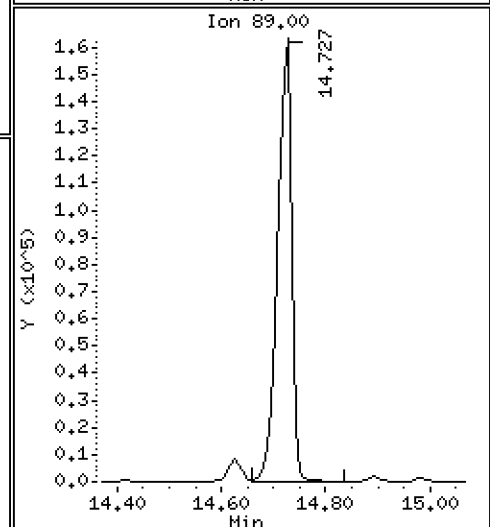
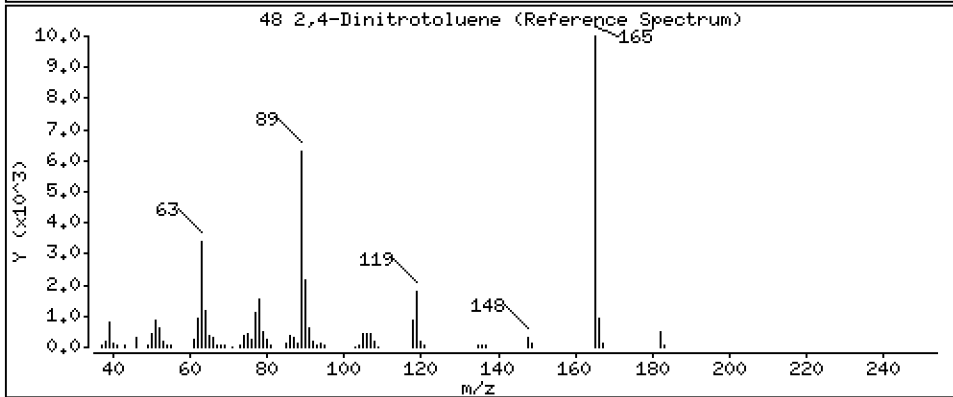
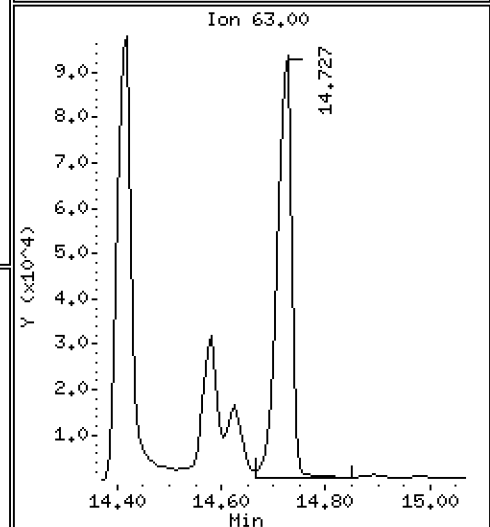
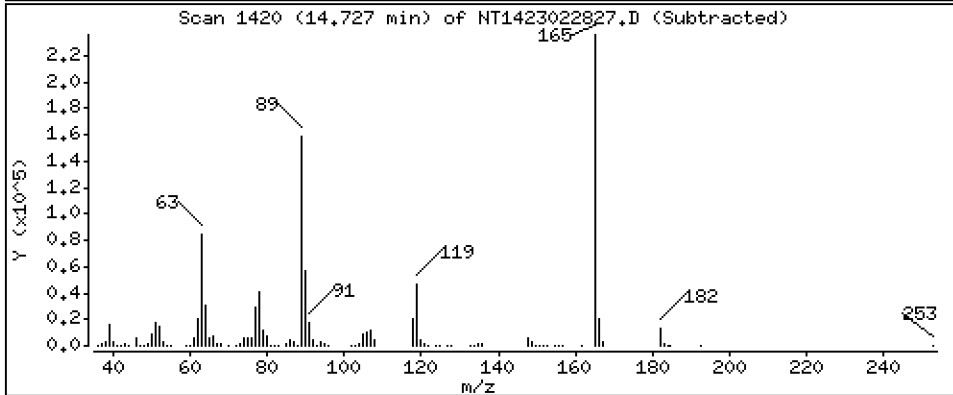
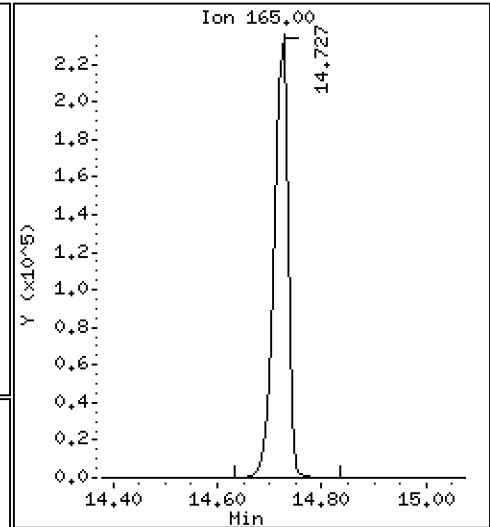
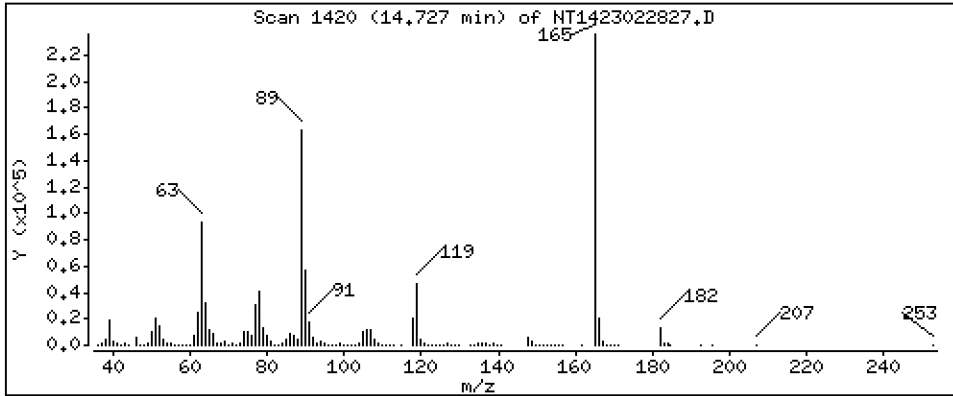
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 15,78 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

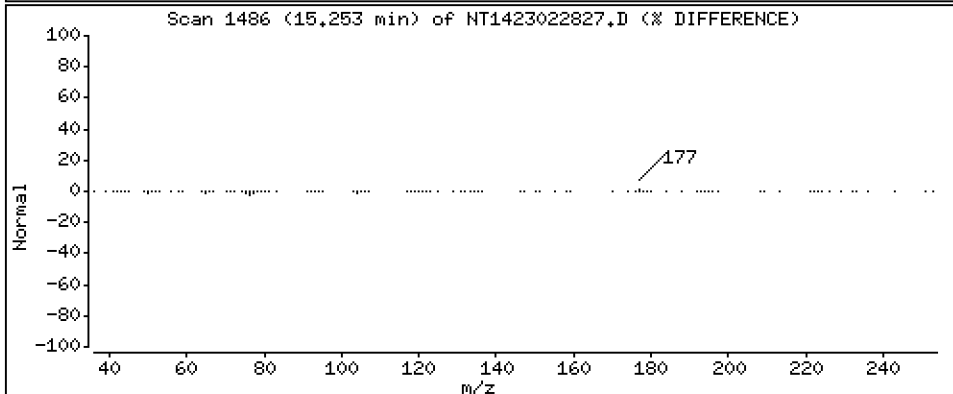
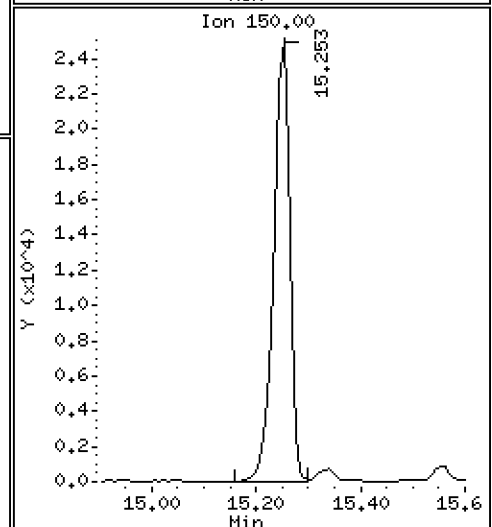
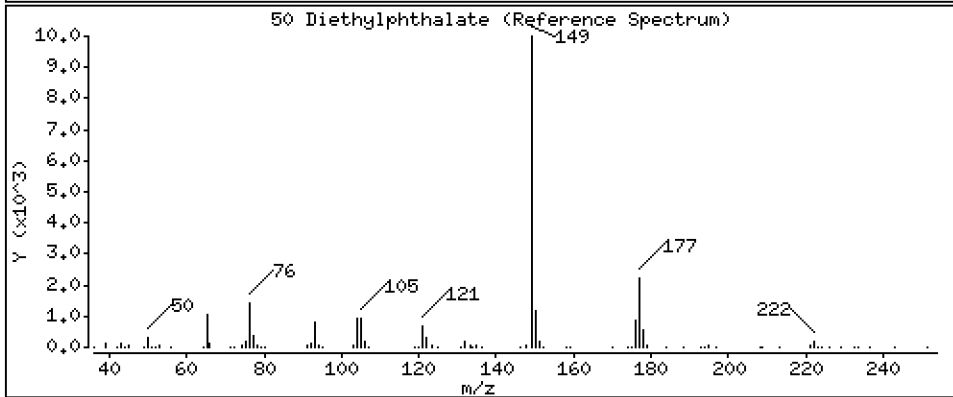
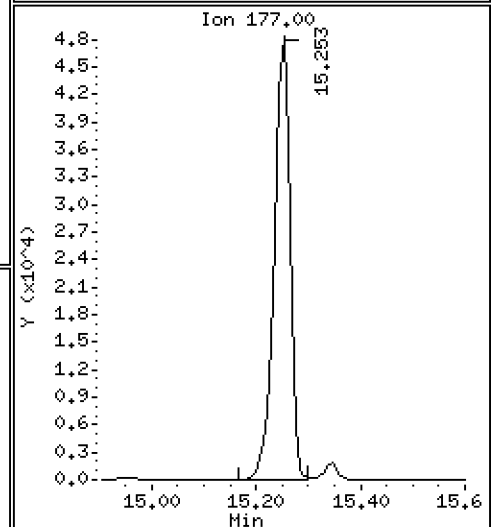
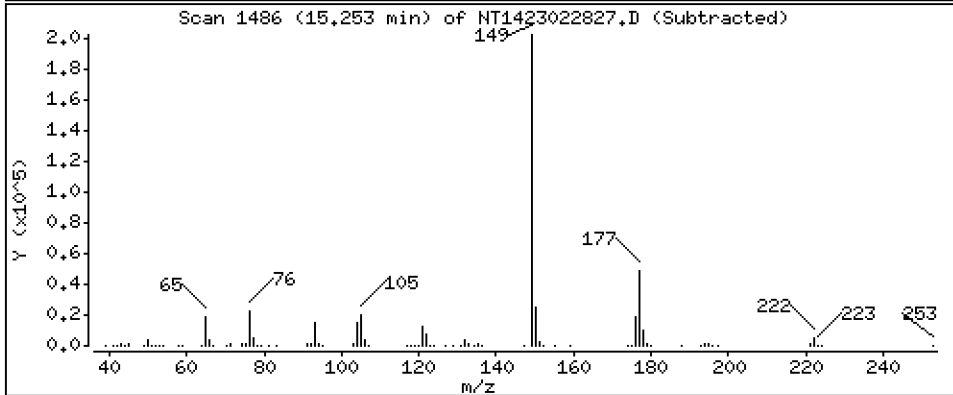
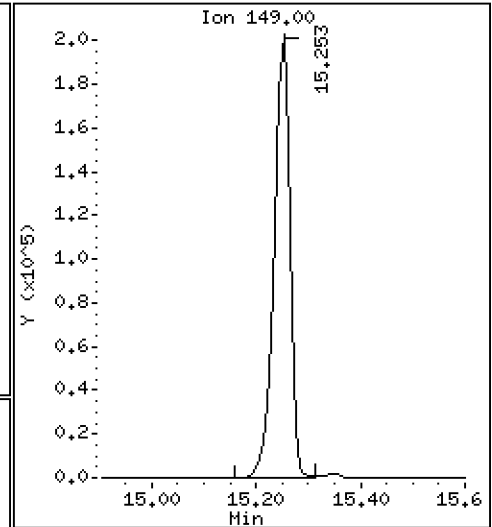
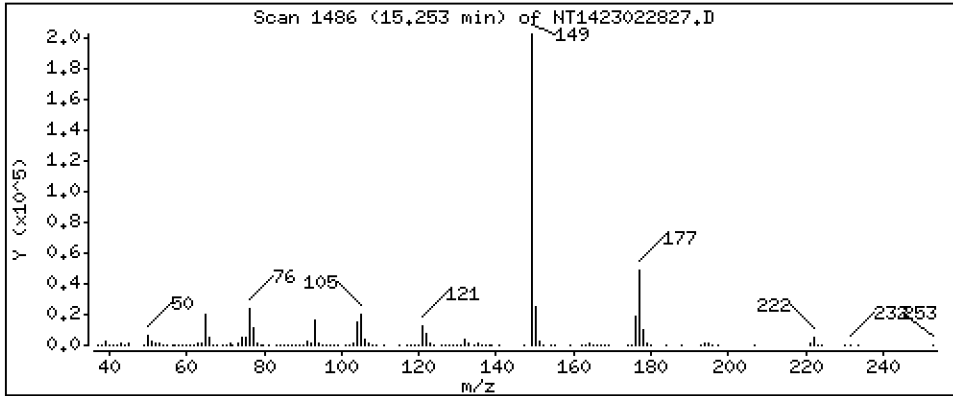
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,633 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

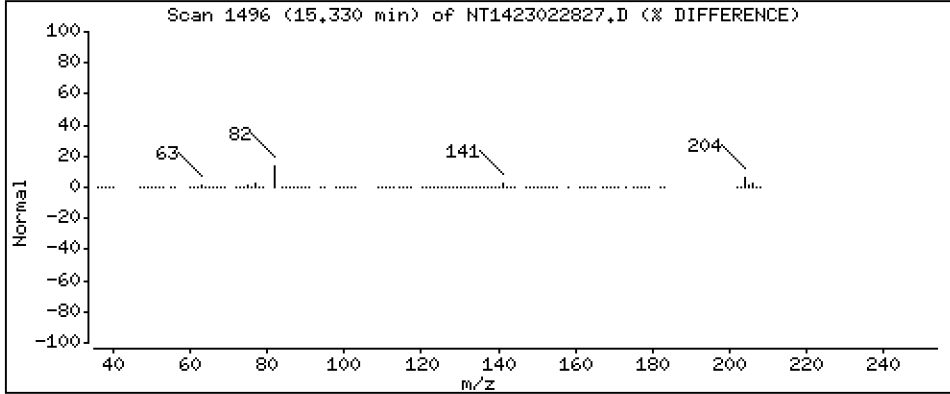
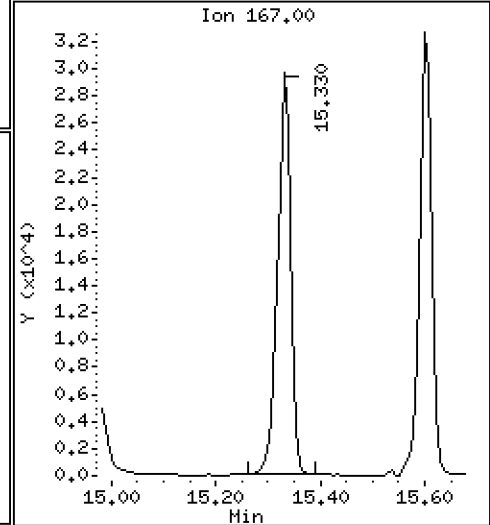
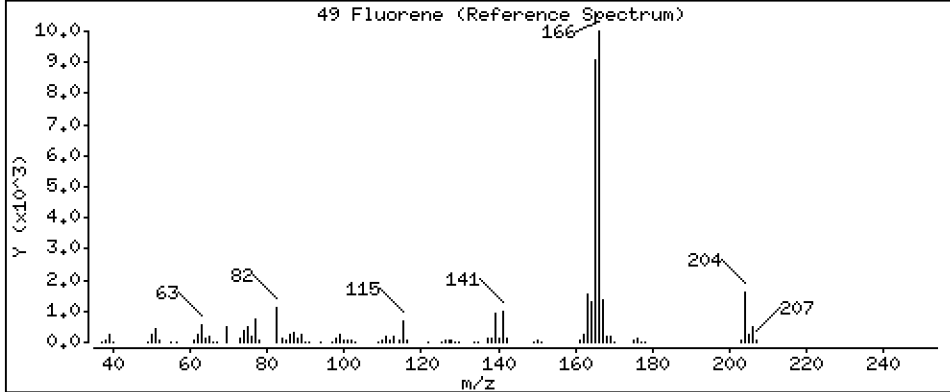
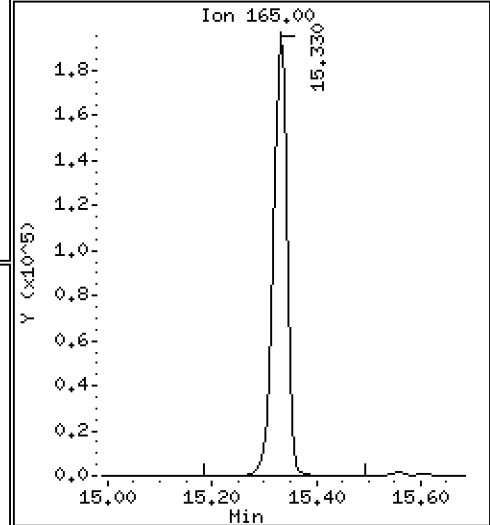
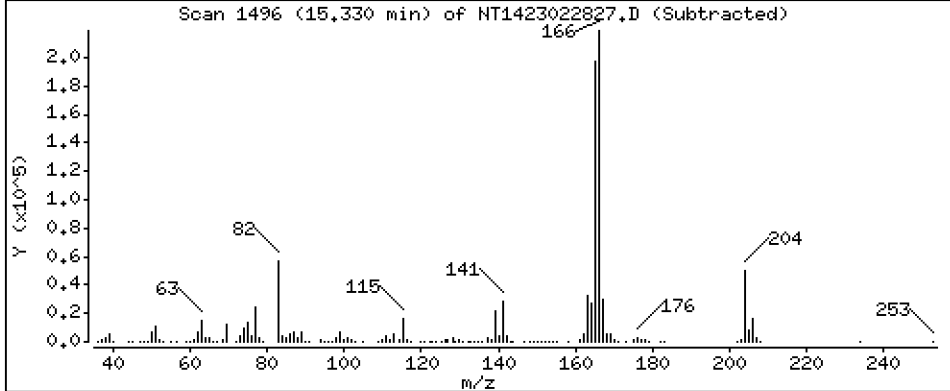
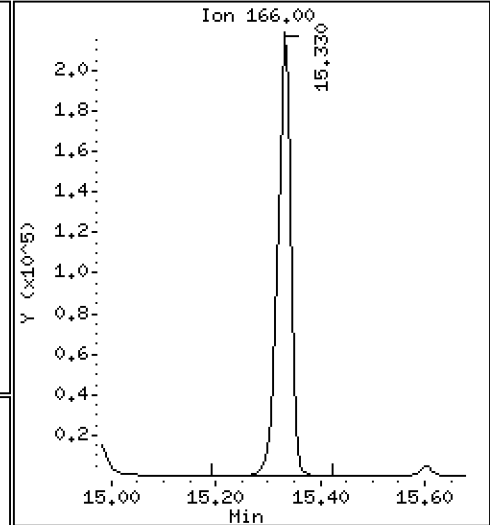
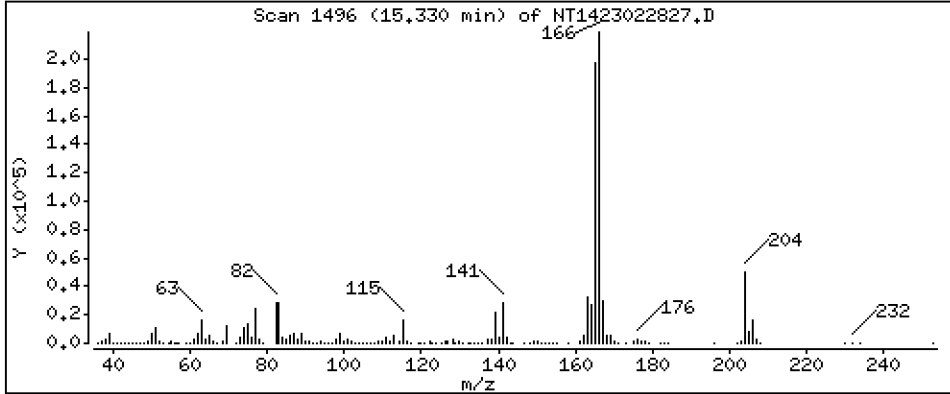
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,146 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

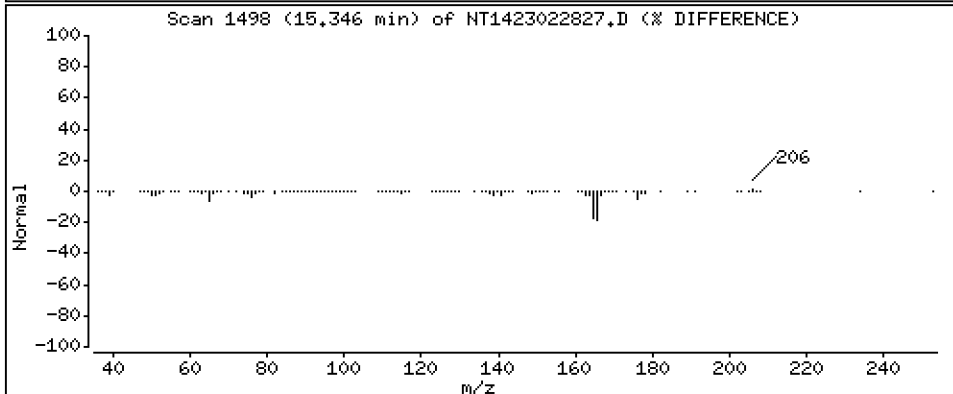
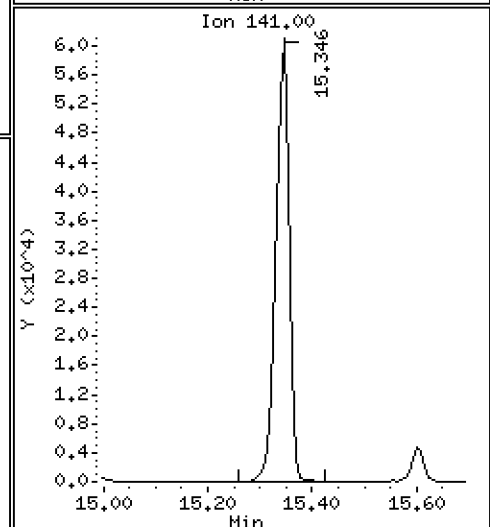
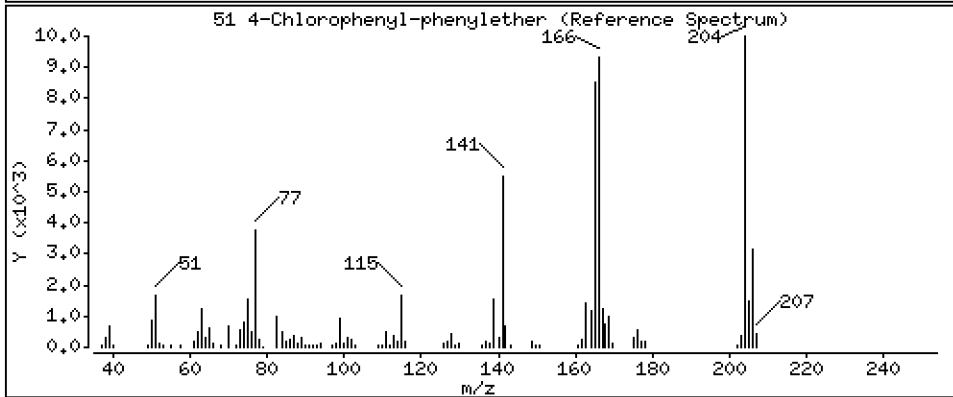
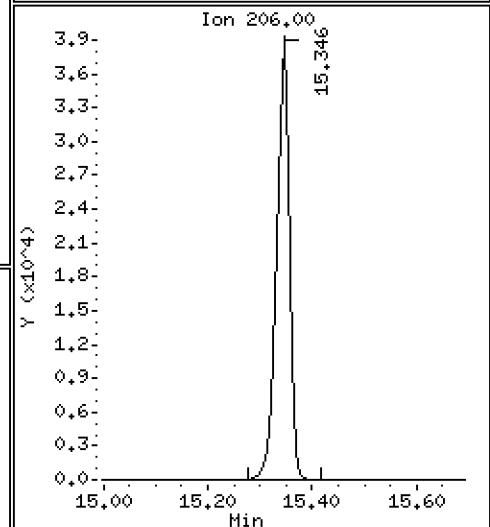
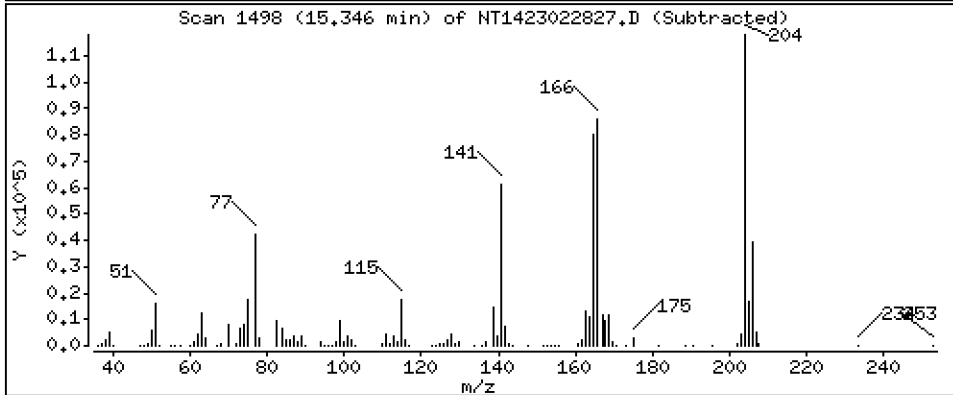
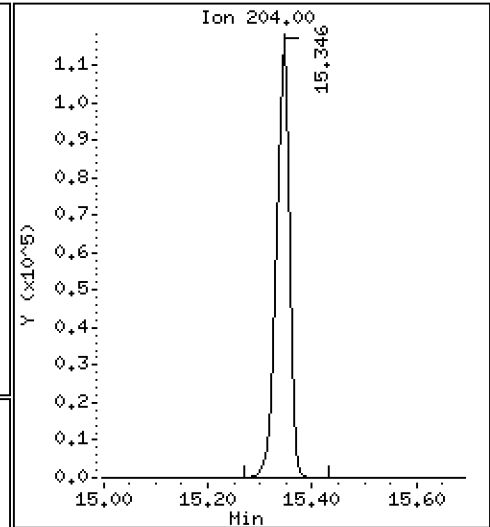
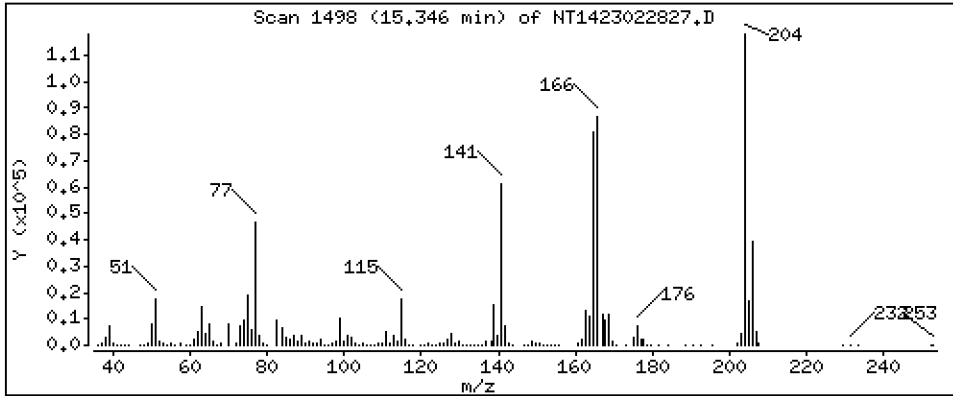
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,222 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

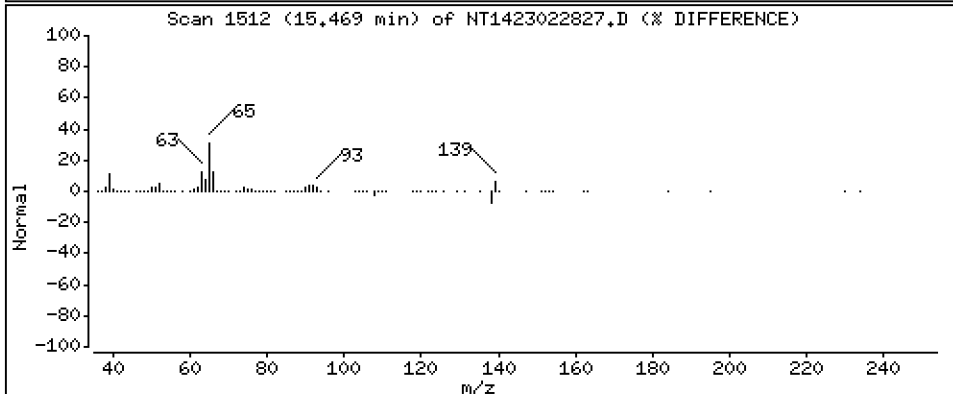
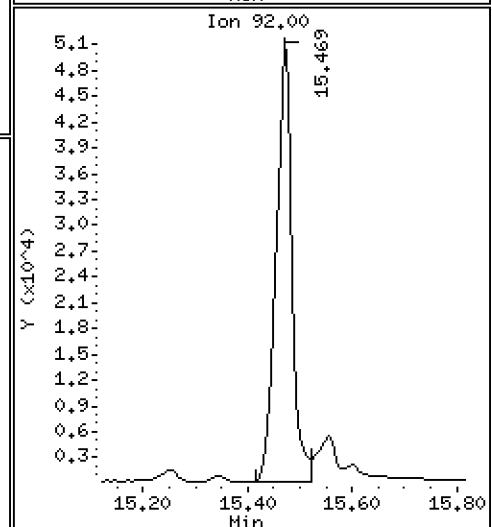
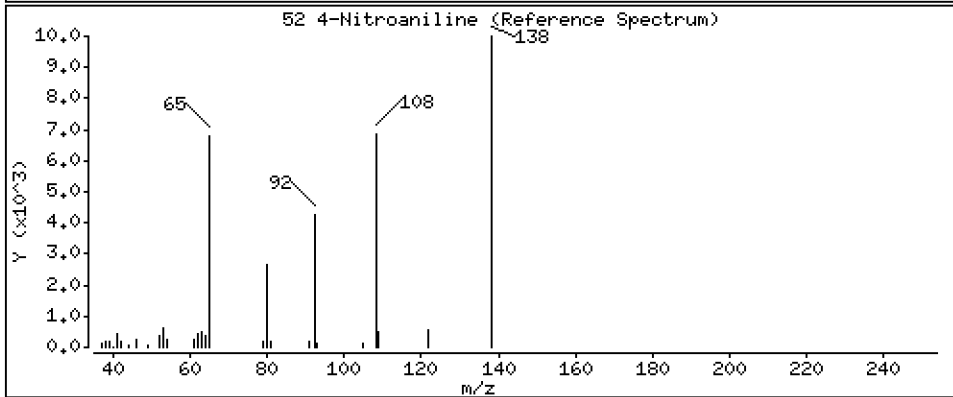
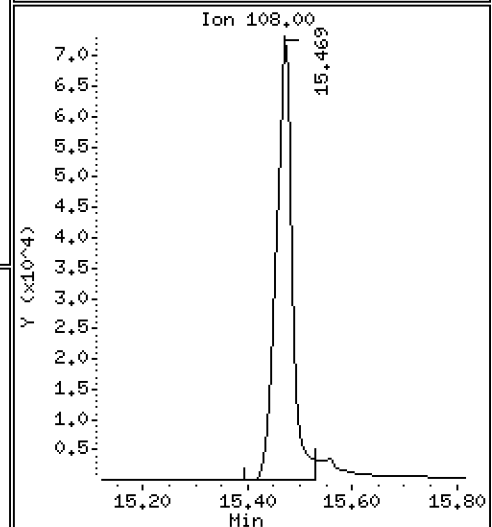
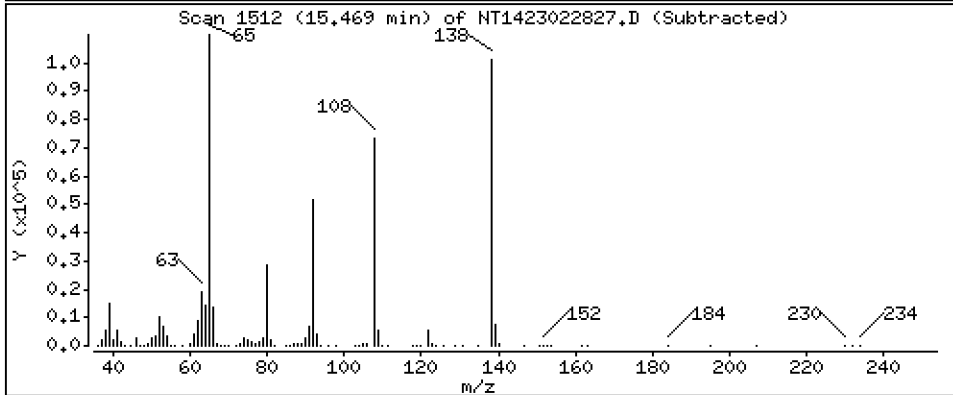
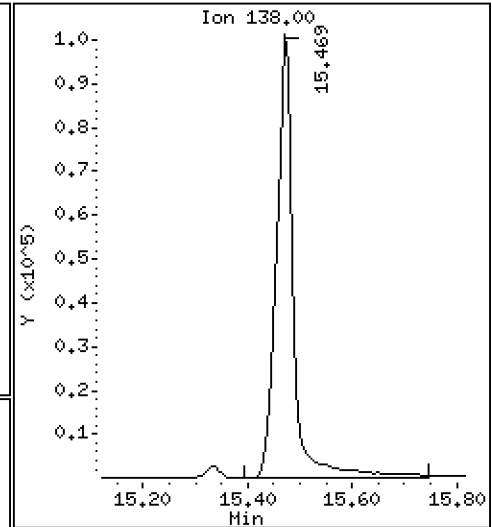
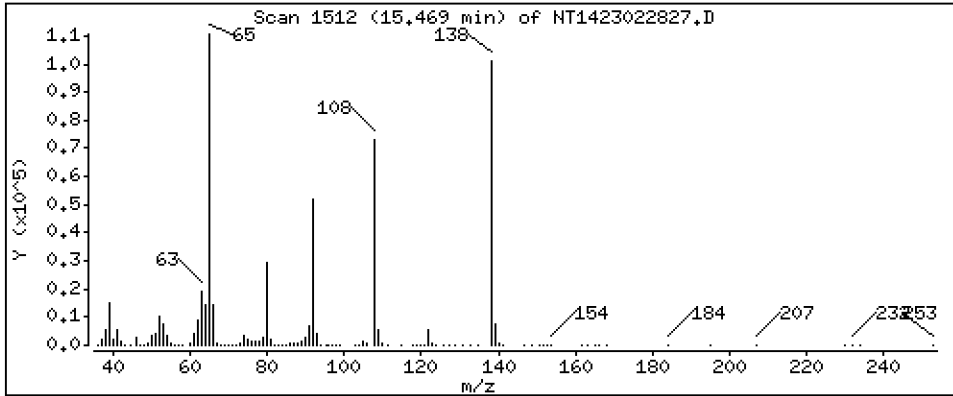
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 12,78 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

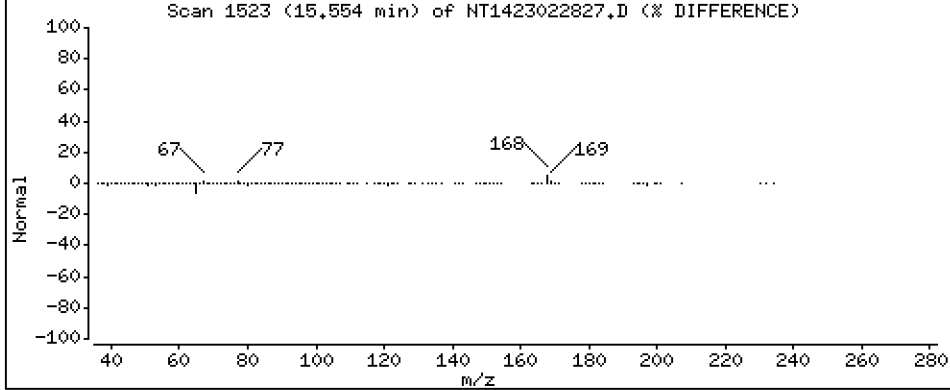
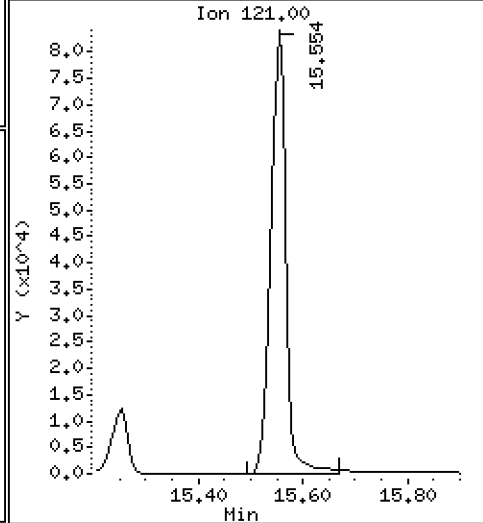
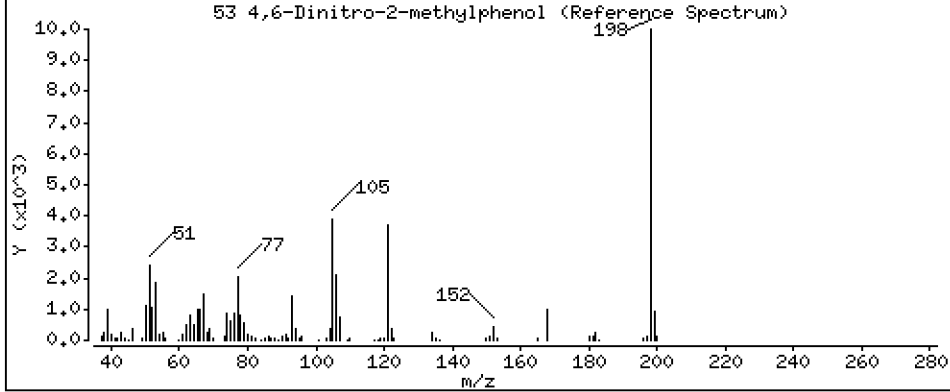
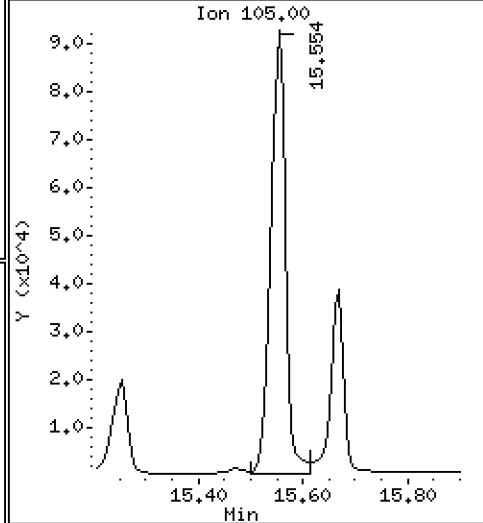
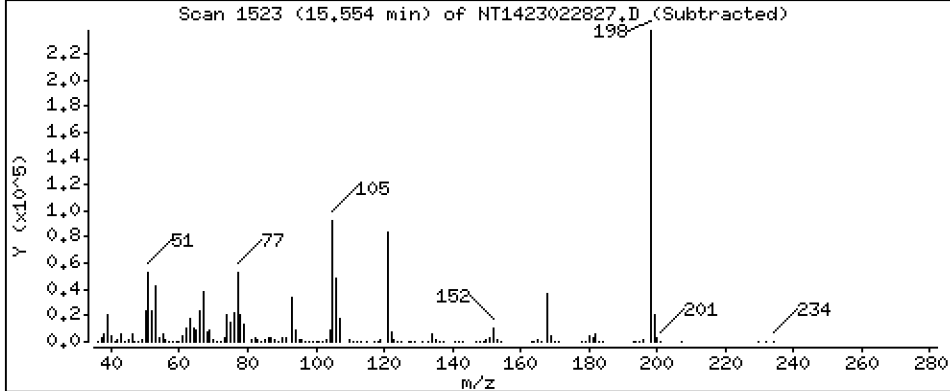
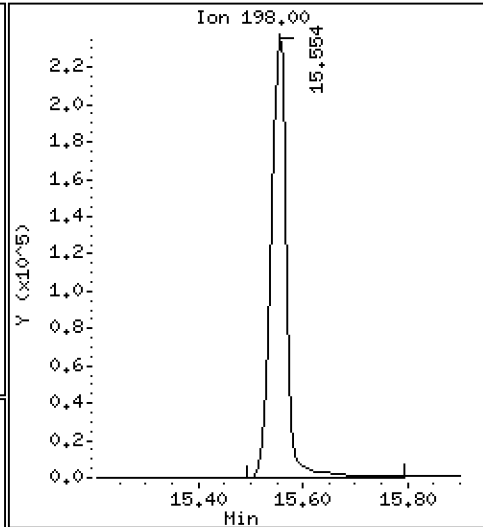
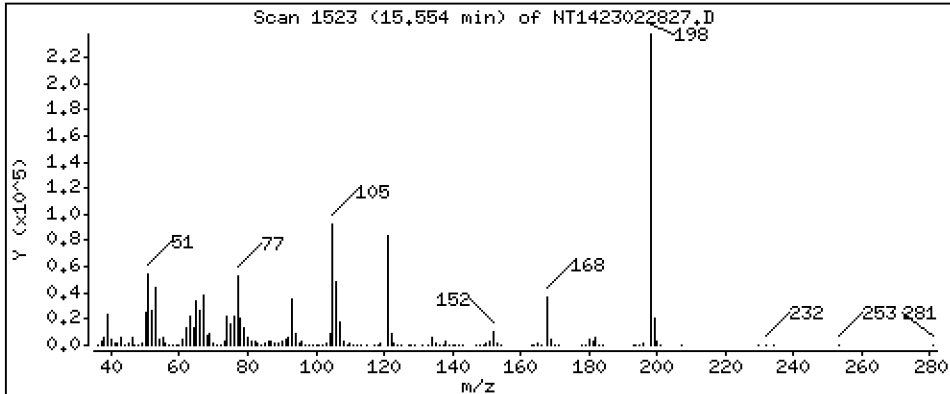
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 30,46 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

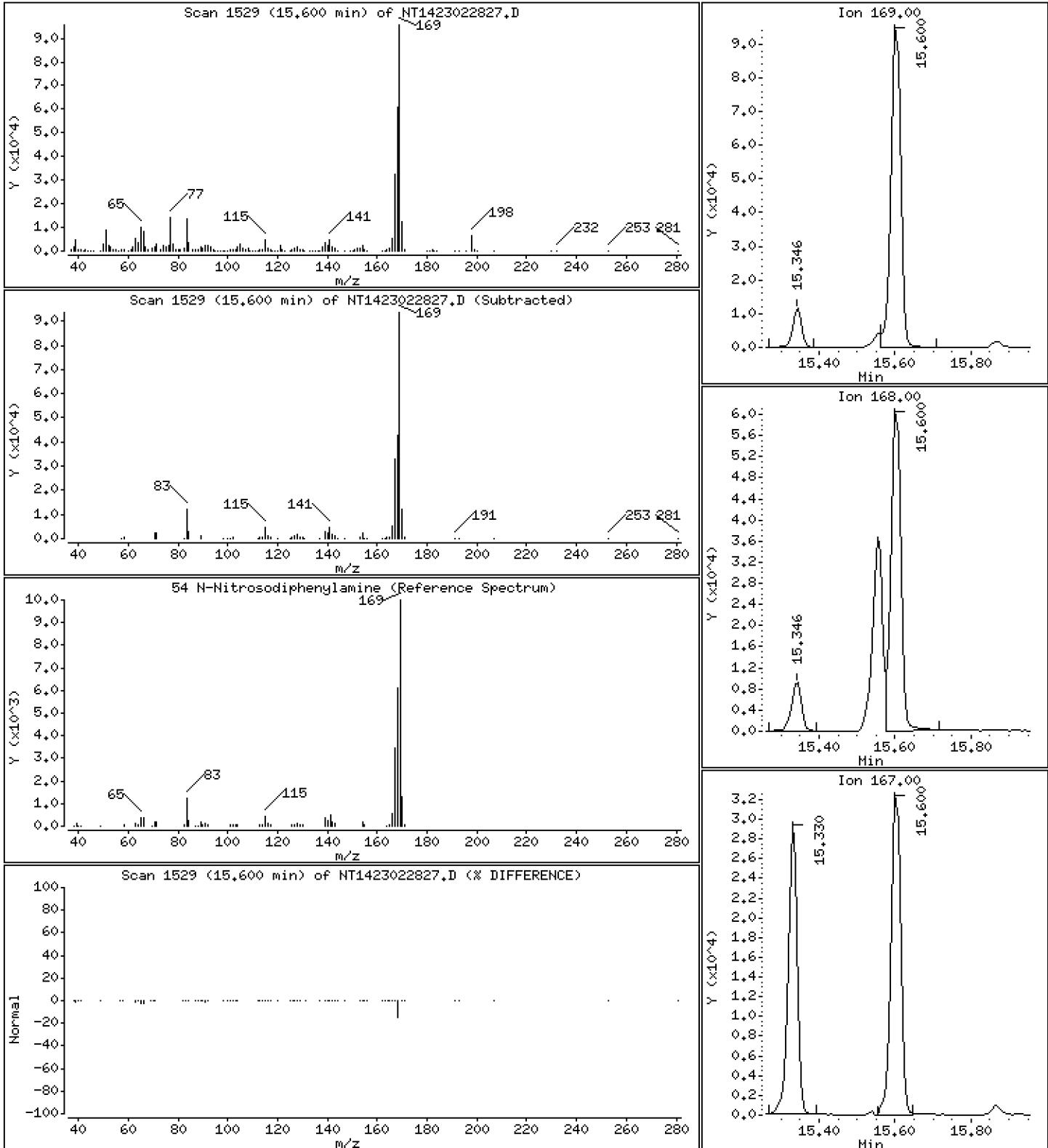
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 2,813 ug/mL





Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

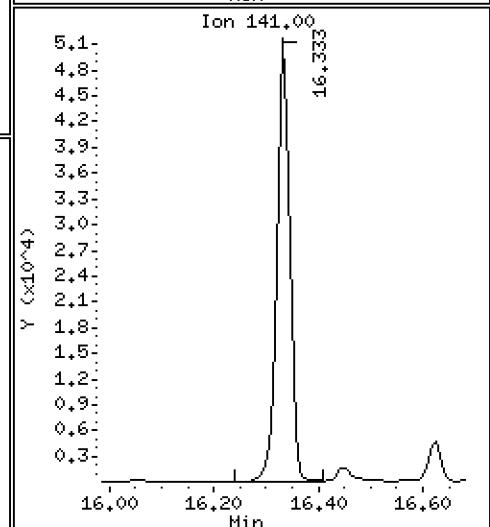
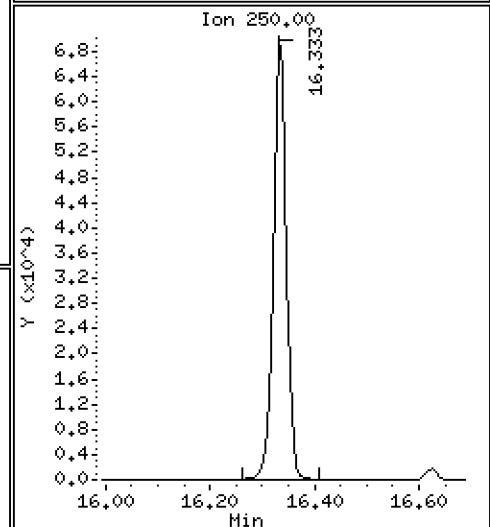
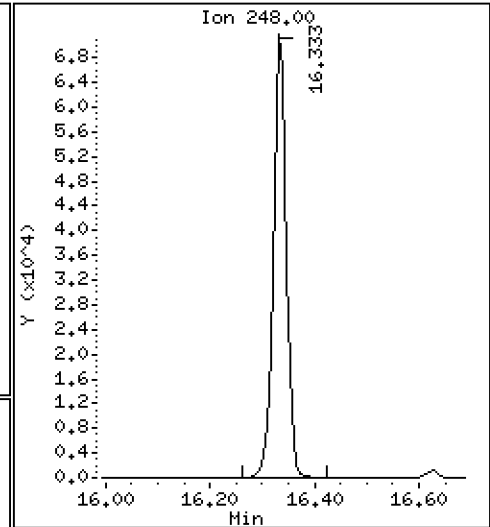
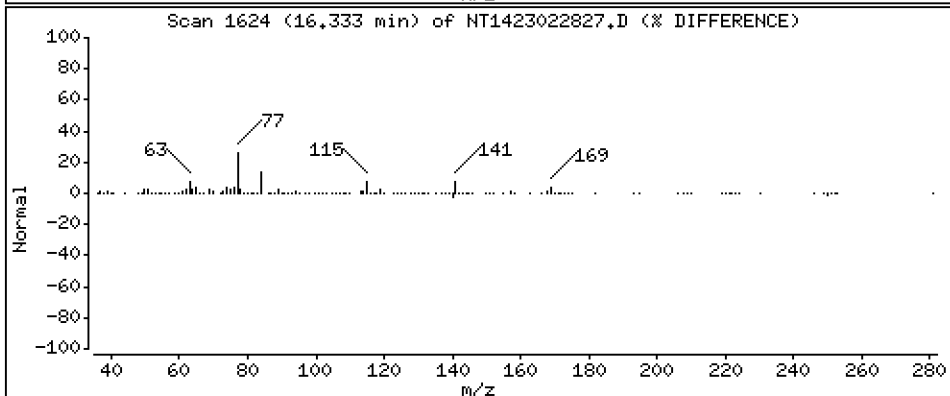
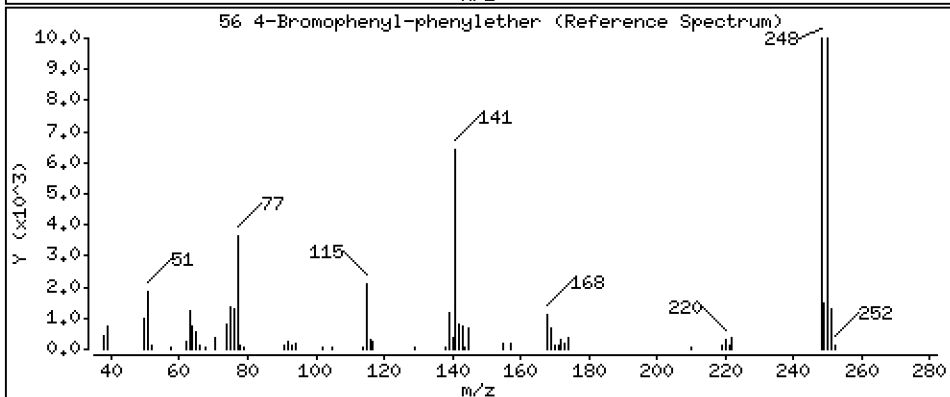
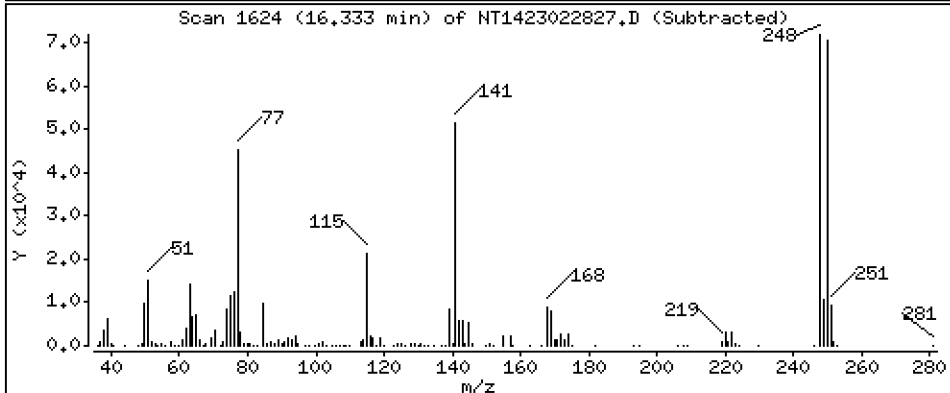
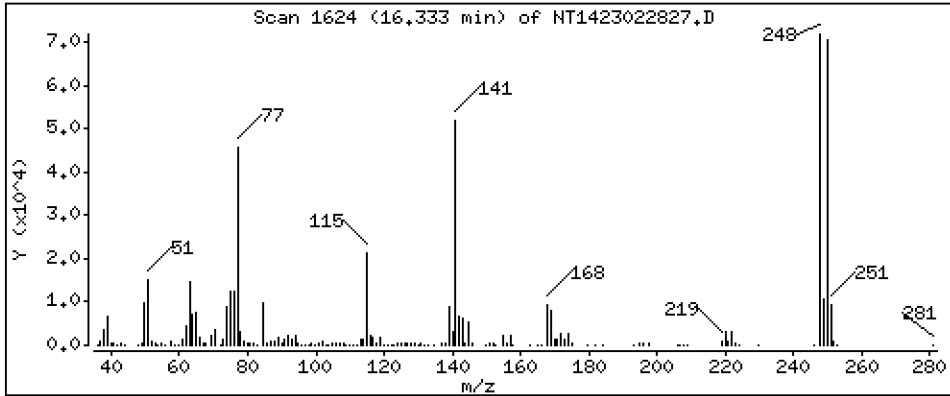
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 4,893 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

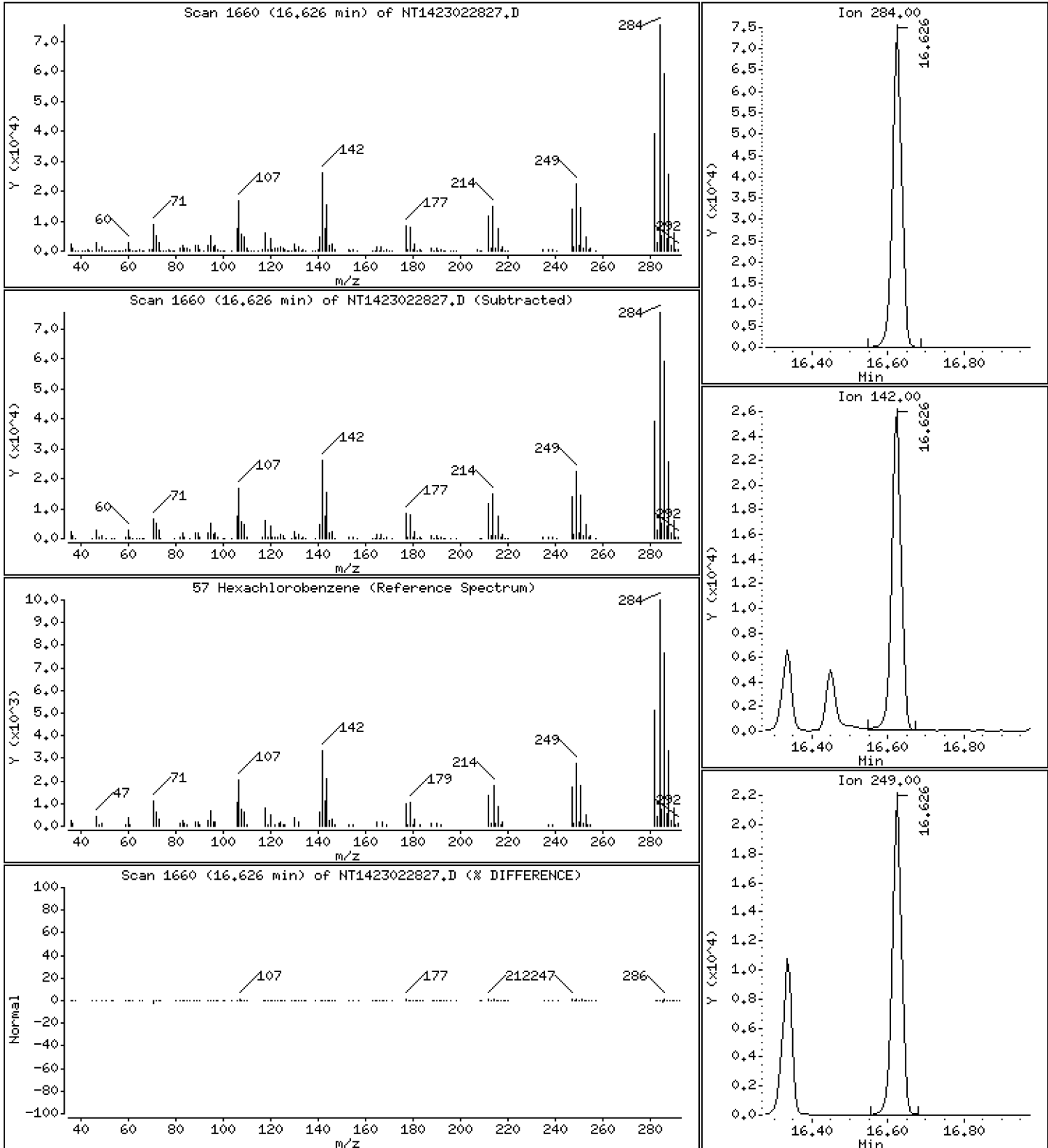
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,485 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

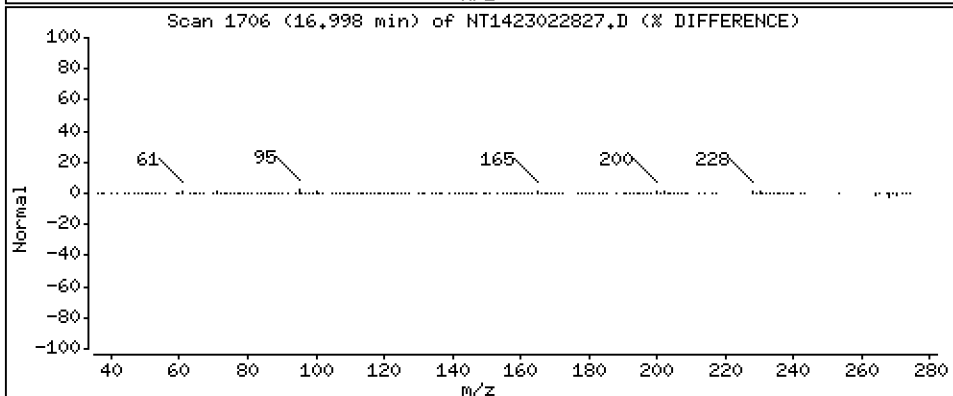
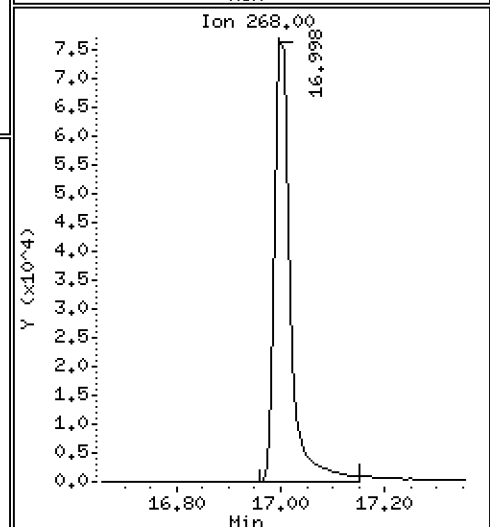
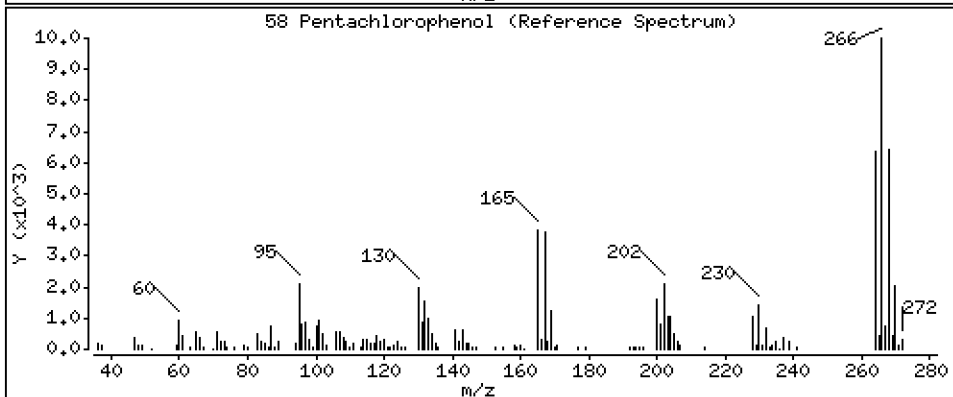
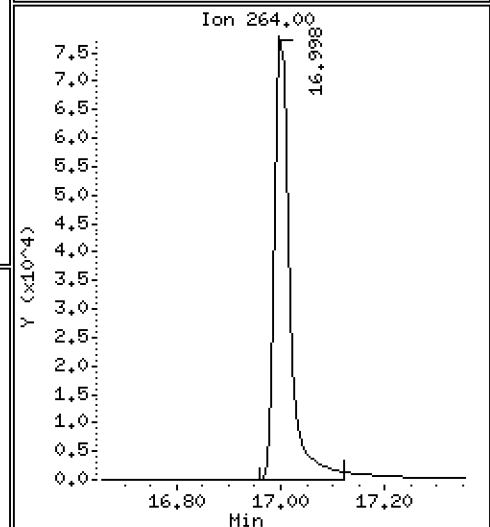
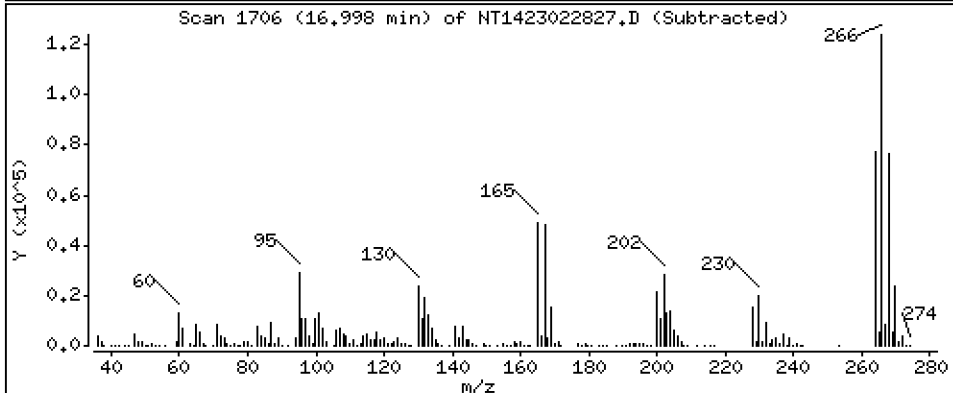
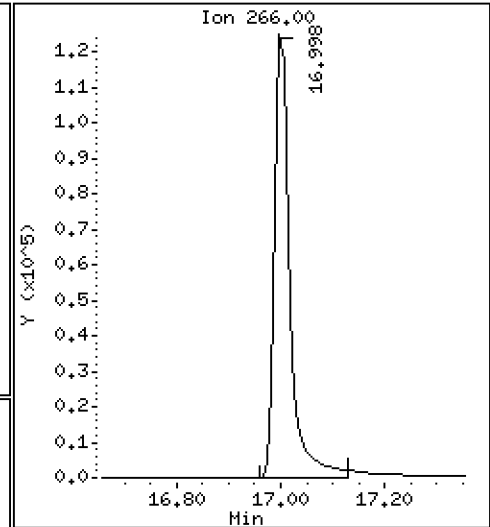
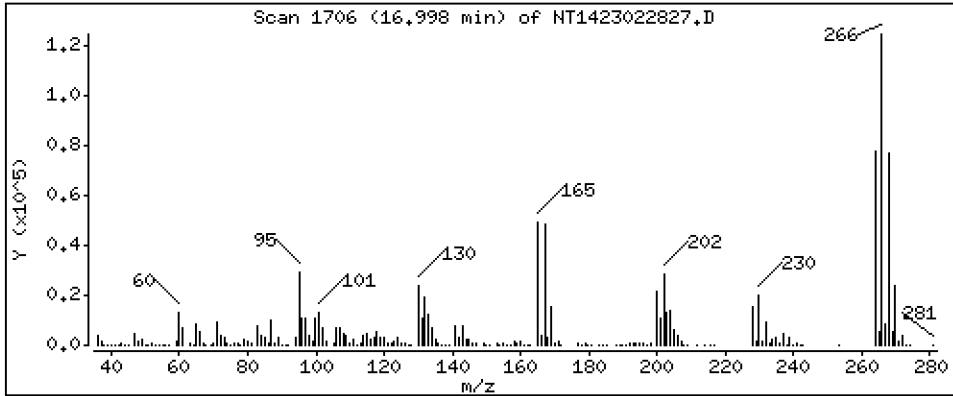
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 17,30 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

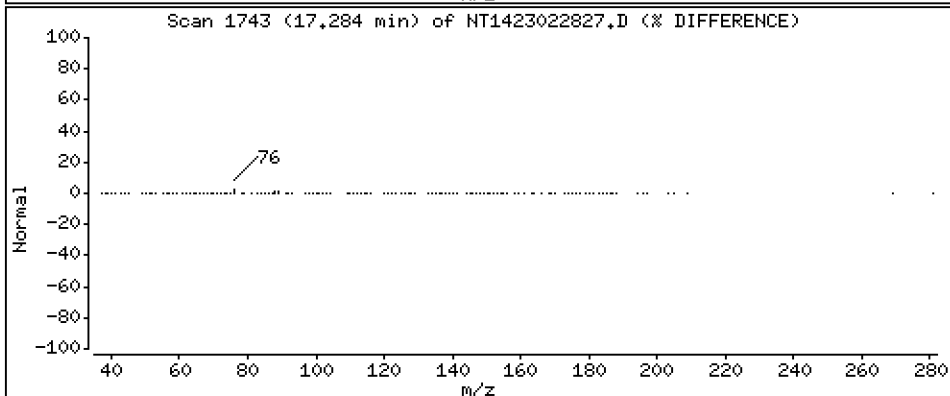
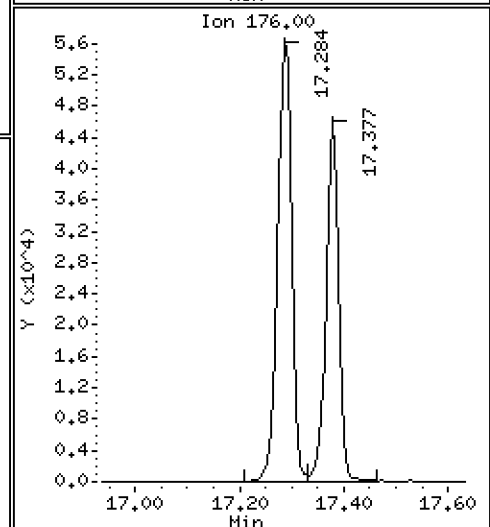
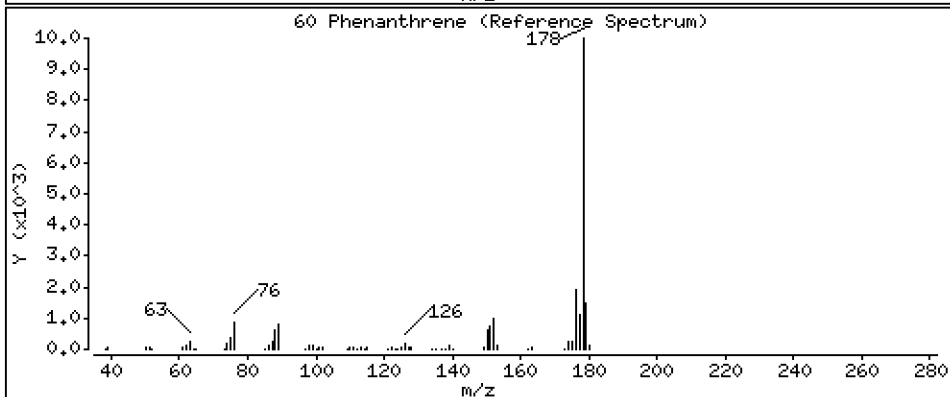
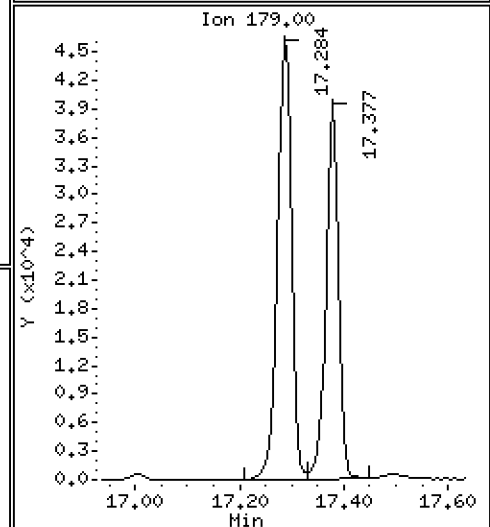
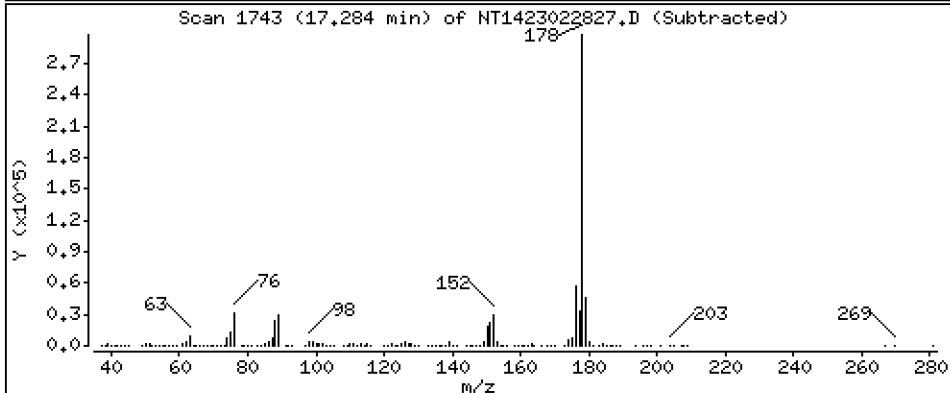
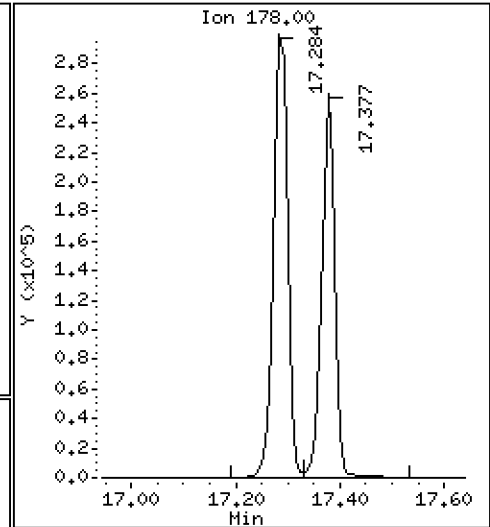
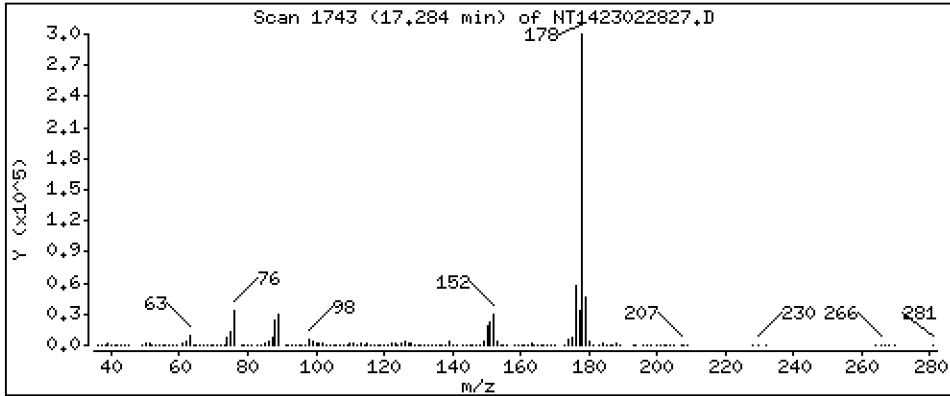
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,460 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

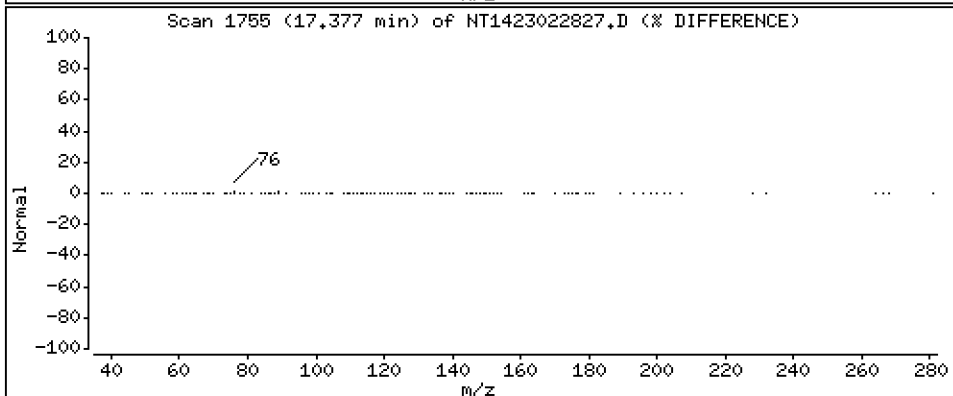
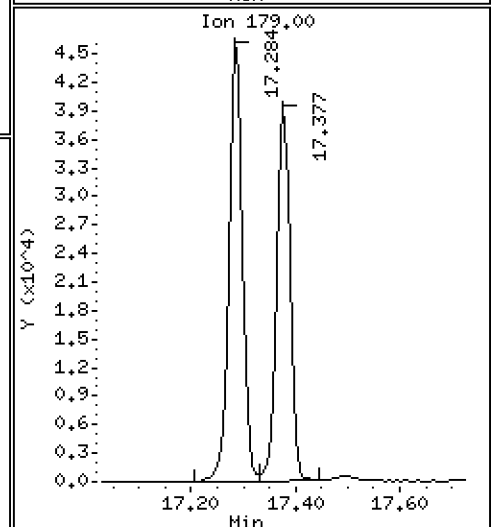
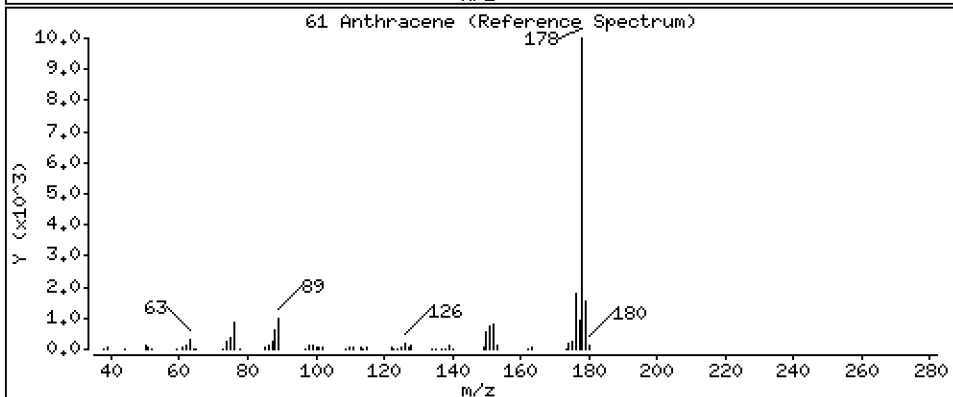
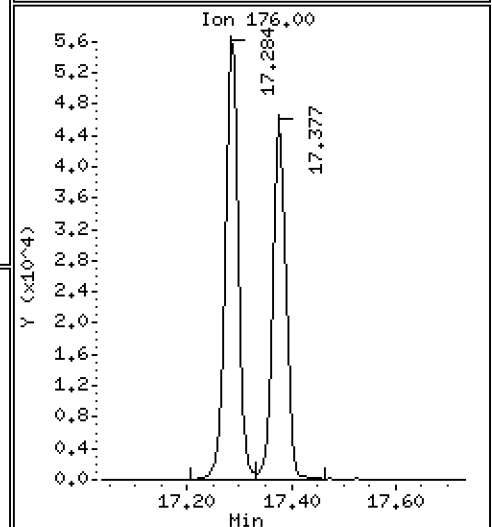
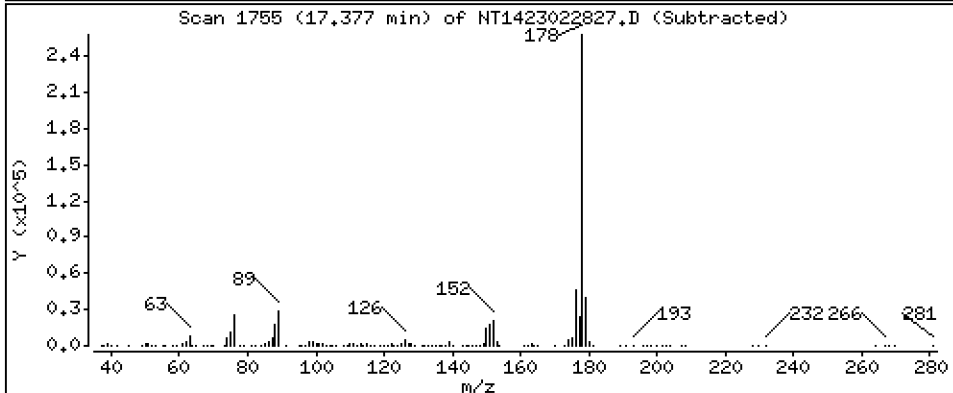
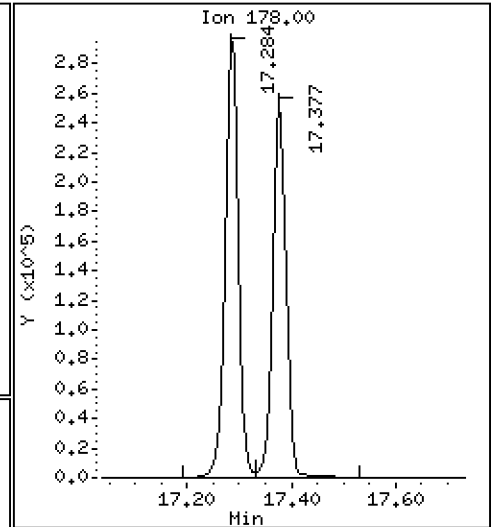
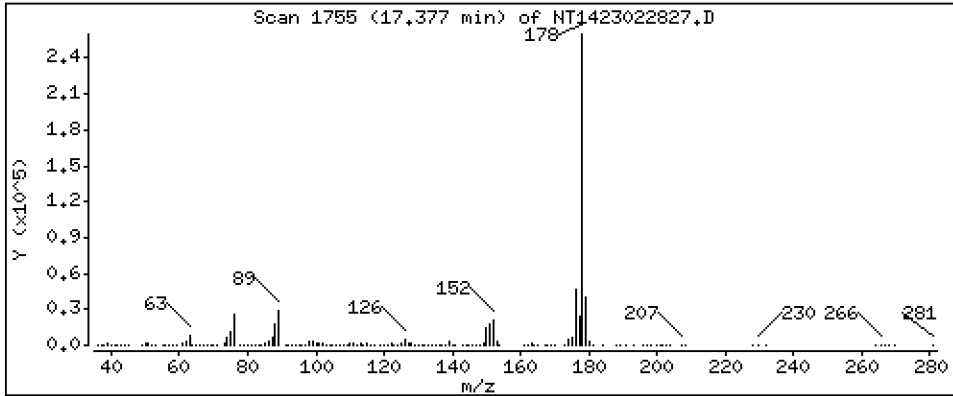
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 3,821 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

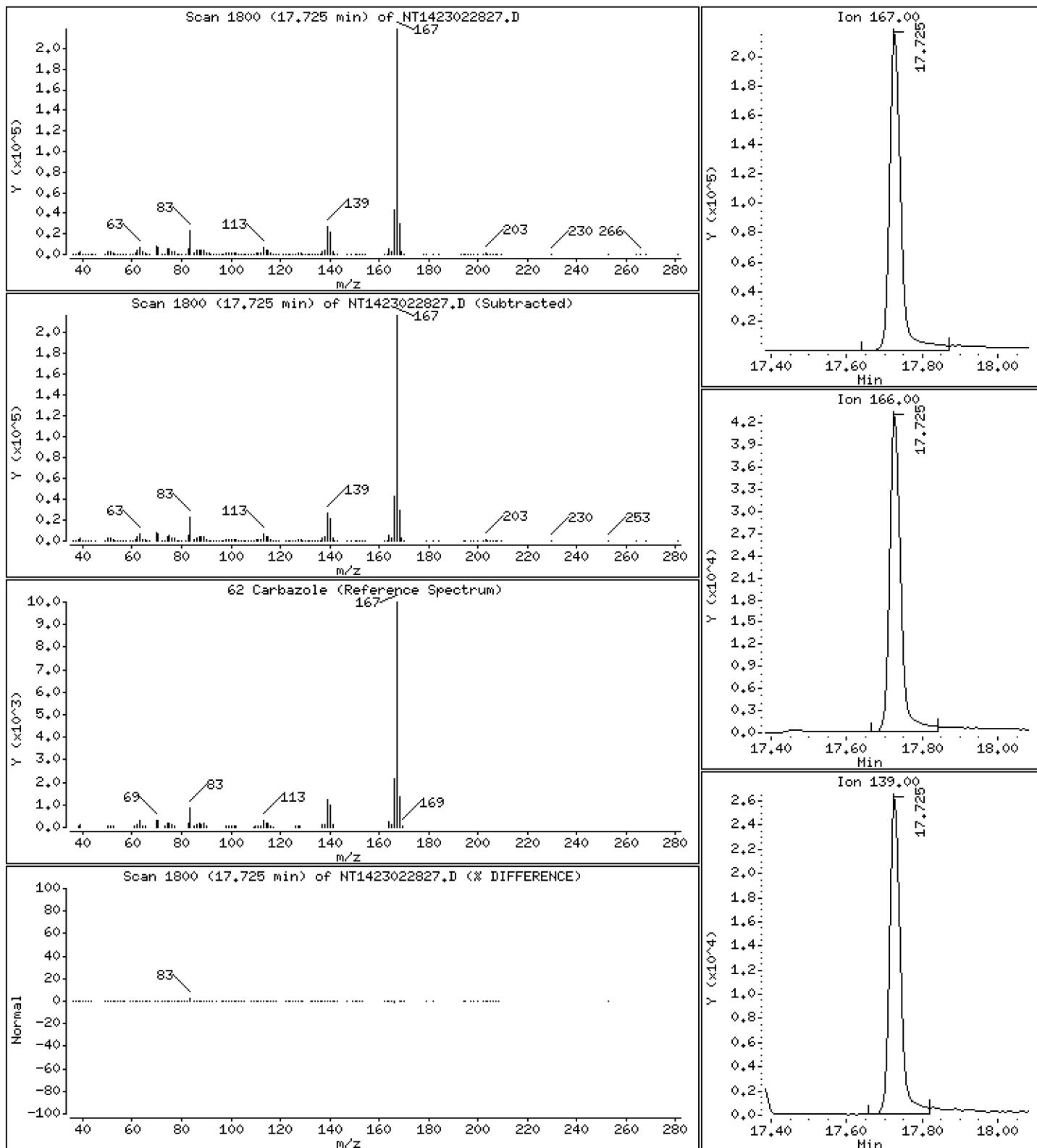
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,318 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

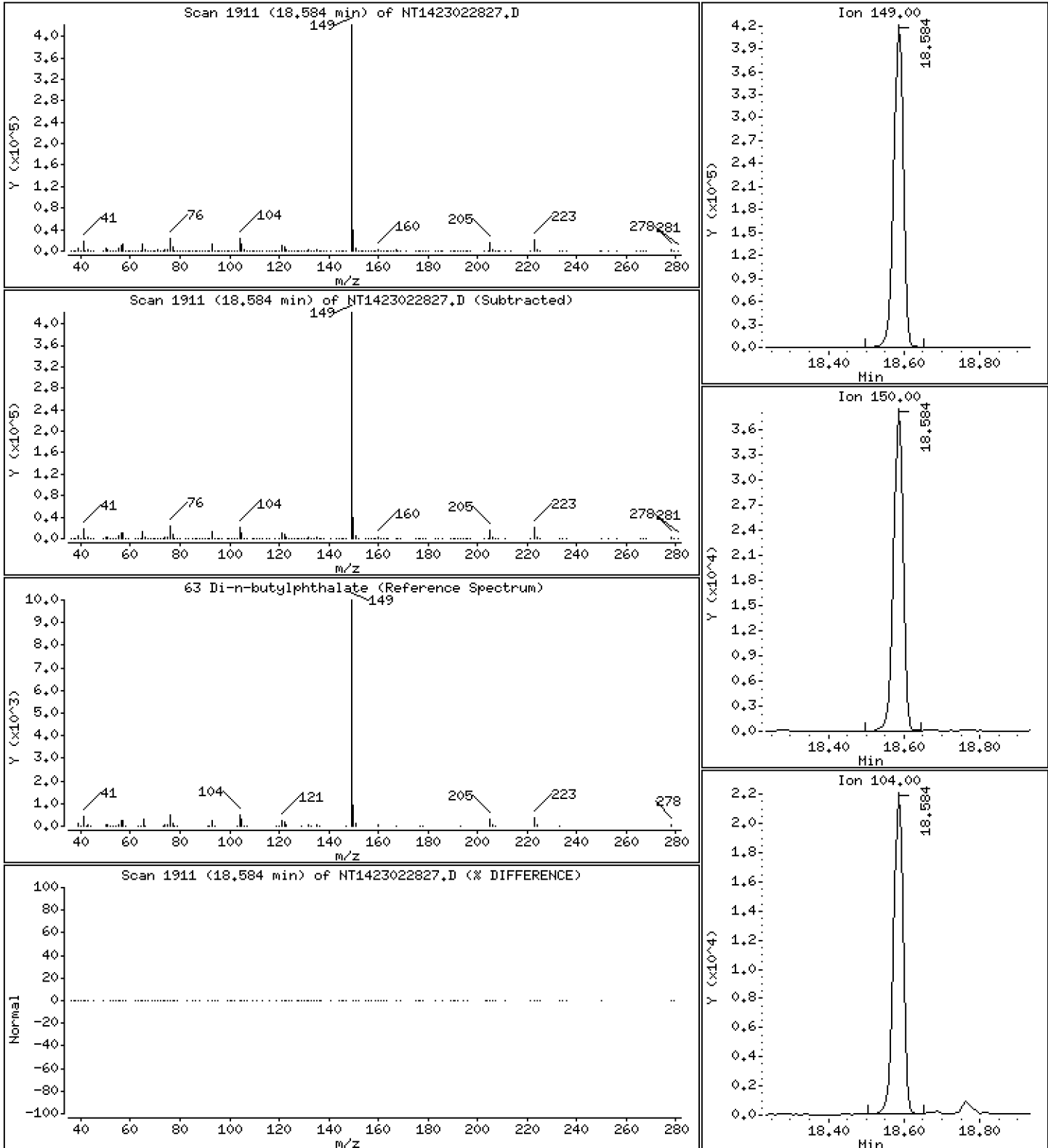
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 5,557 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

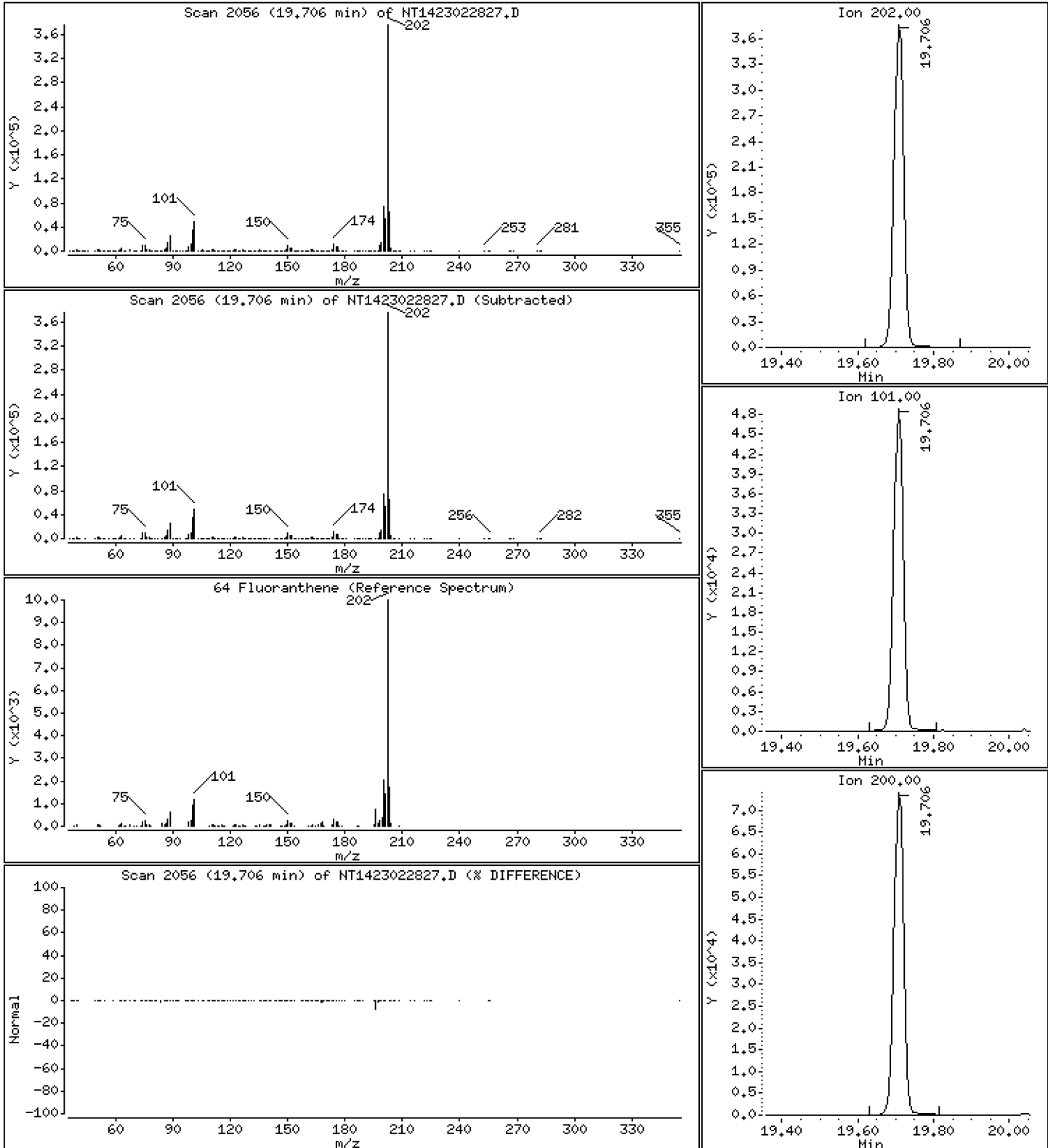
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,893 ug/mL





Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

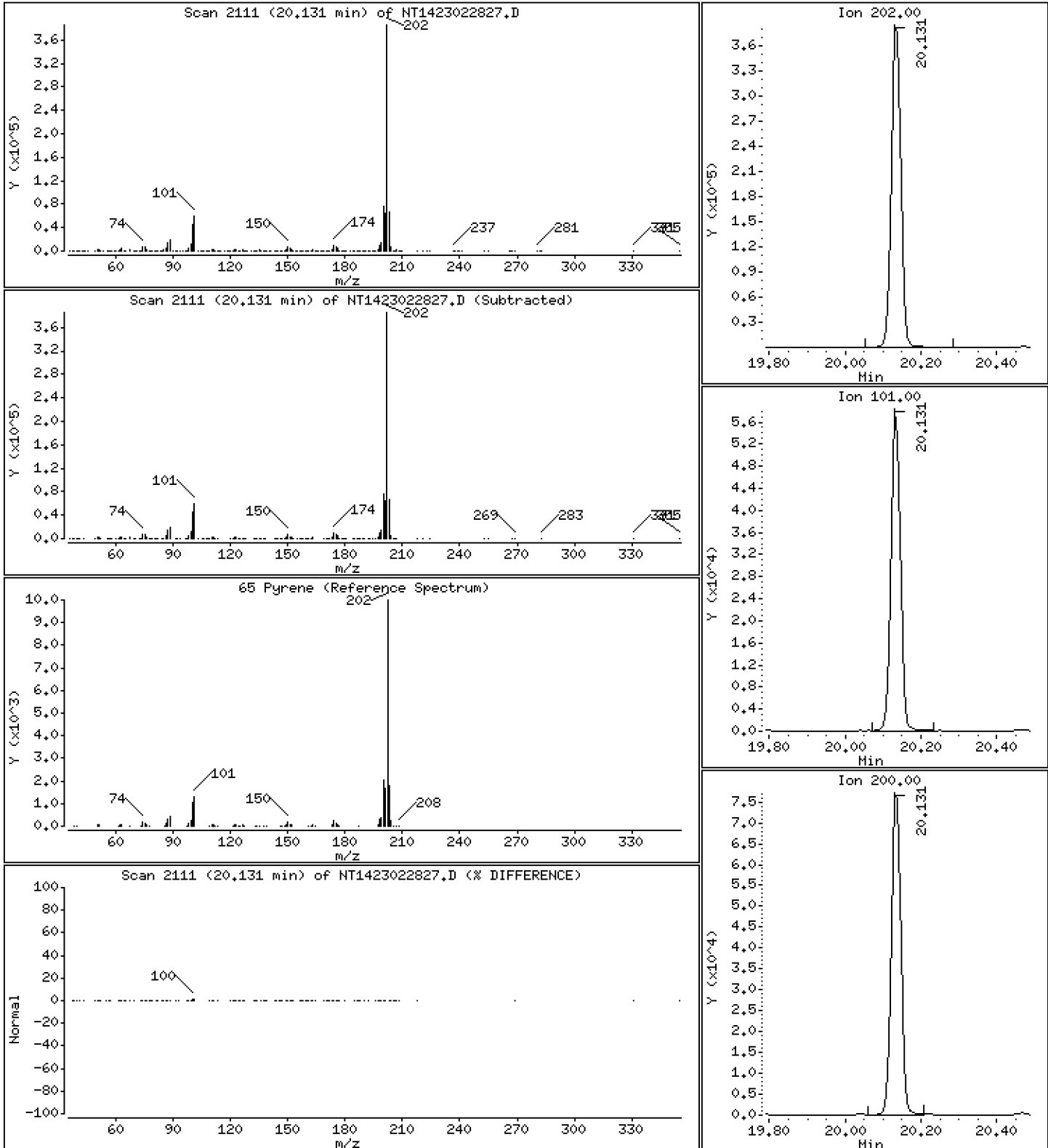
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,589 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

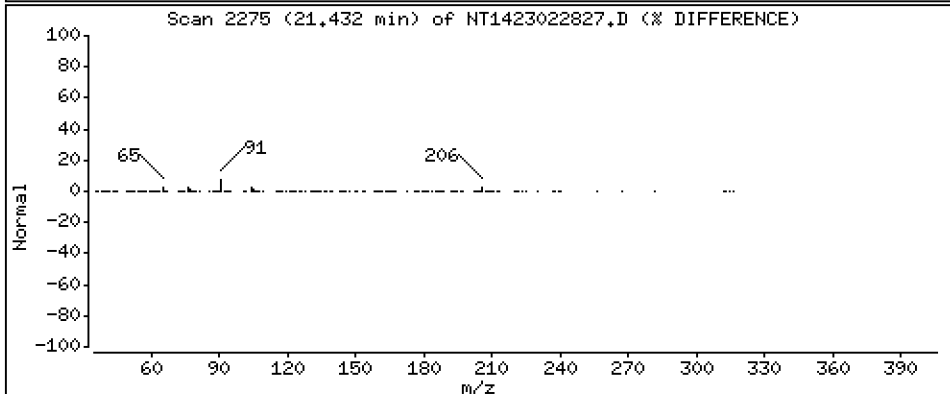
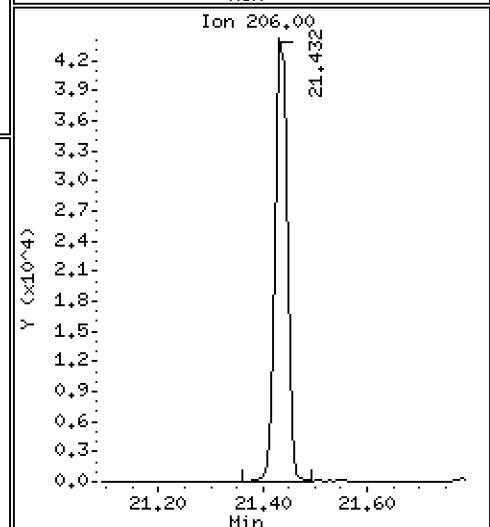
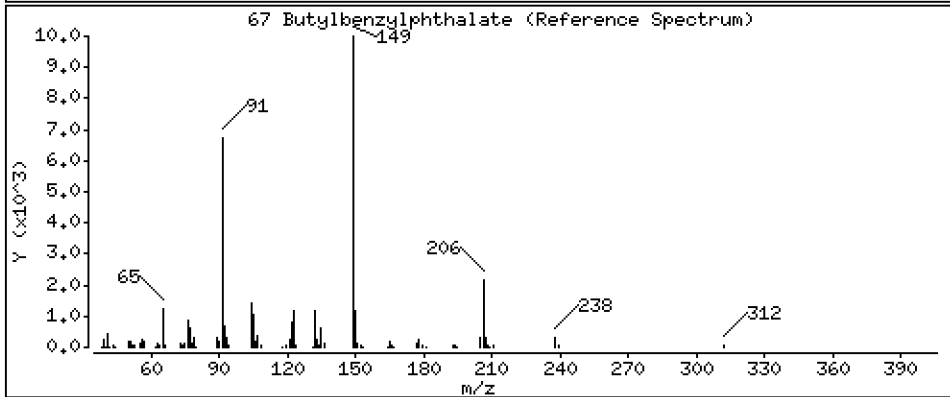
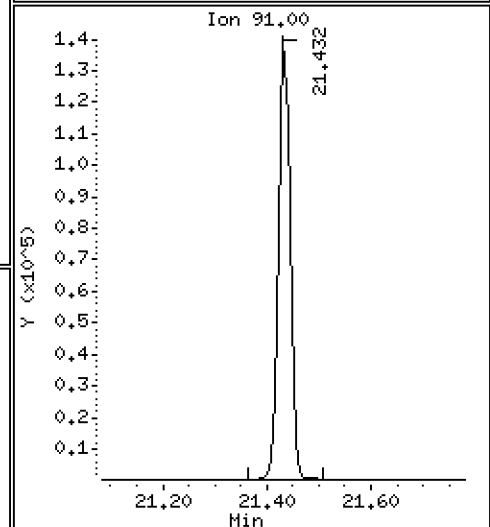
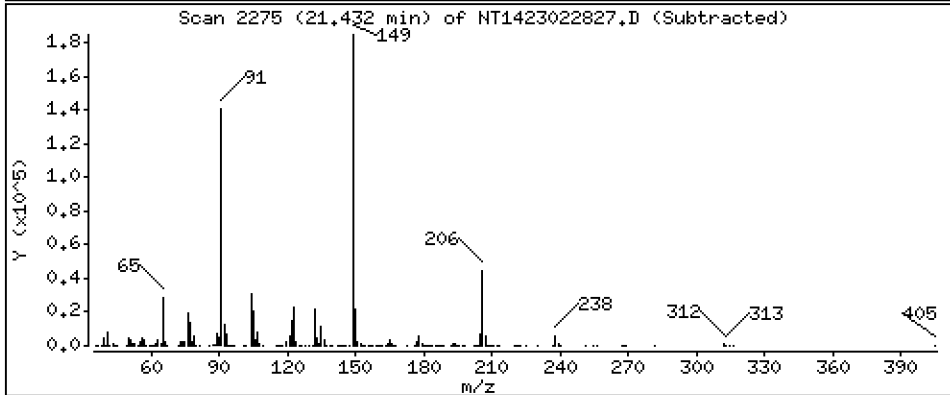
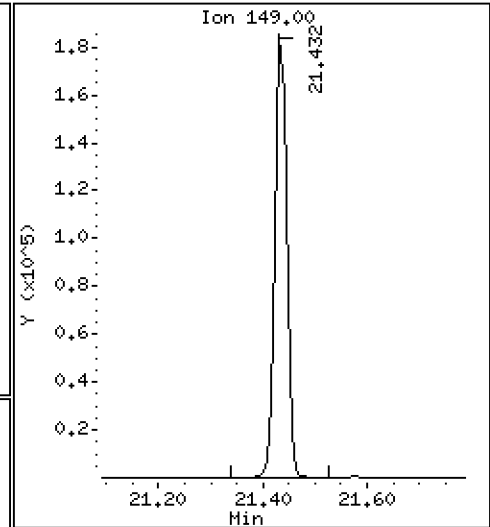
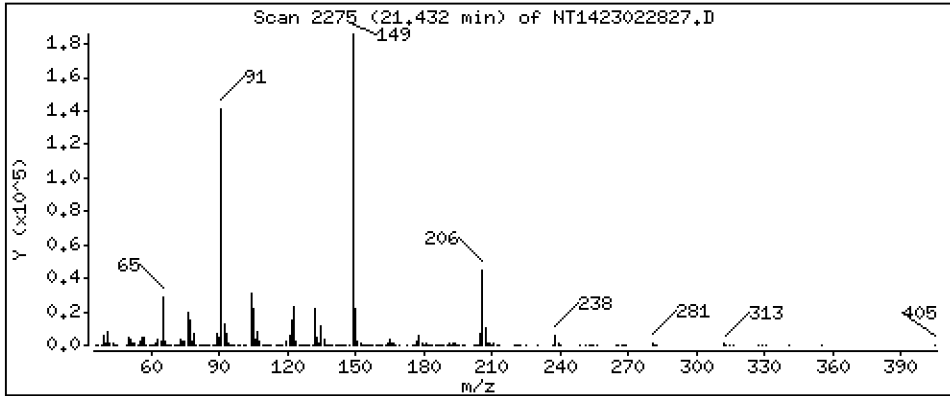
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,656 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

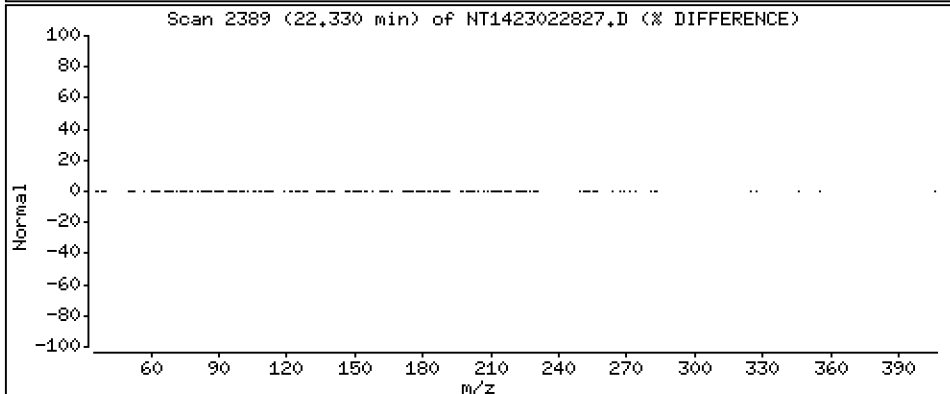
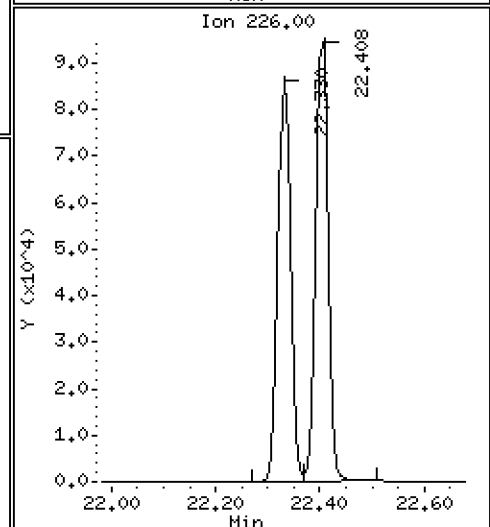
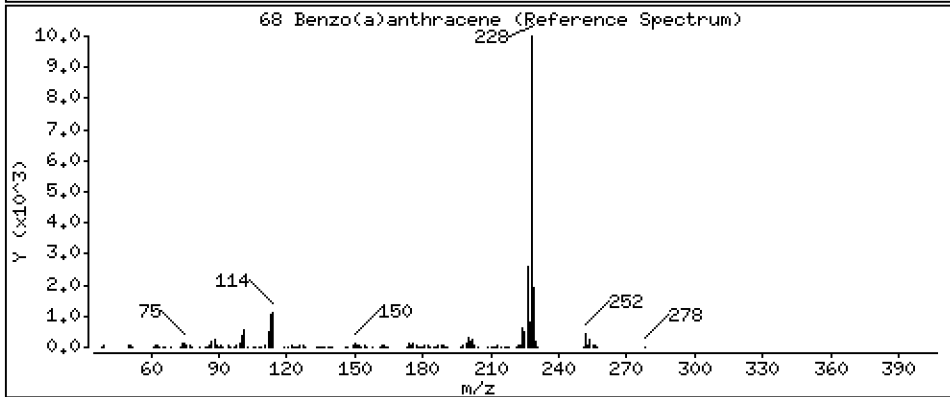
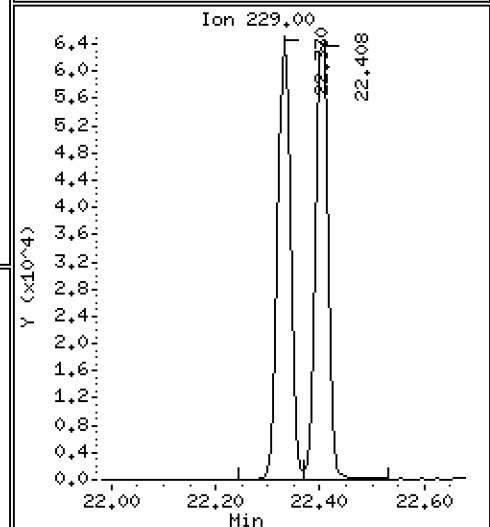
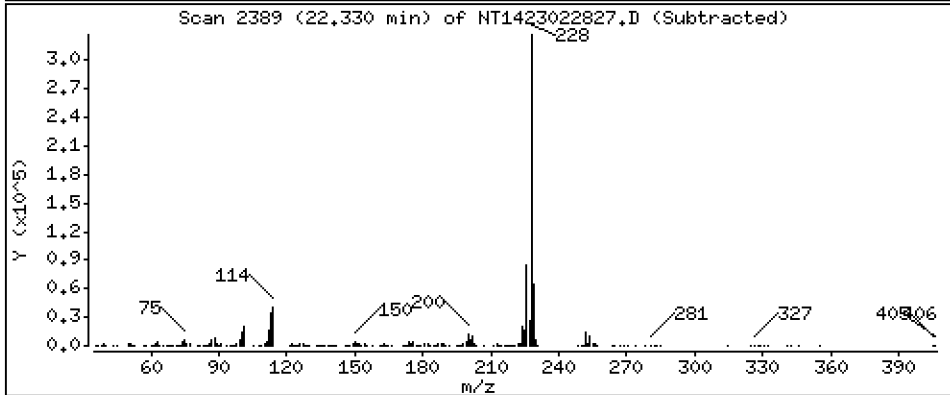
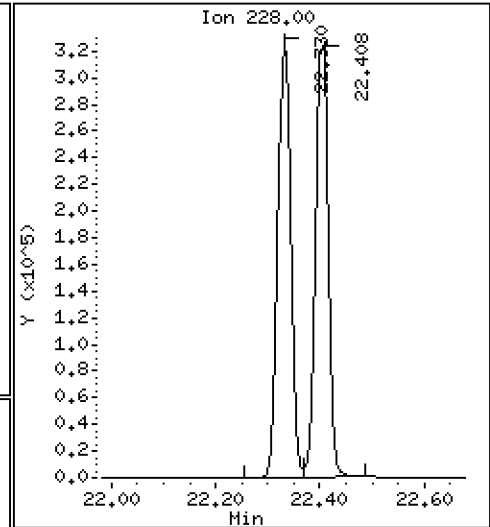
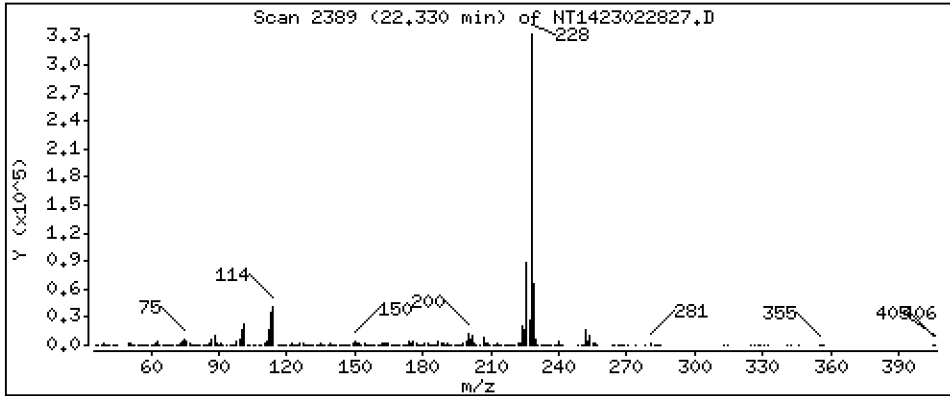
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,650 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

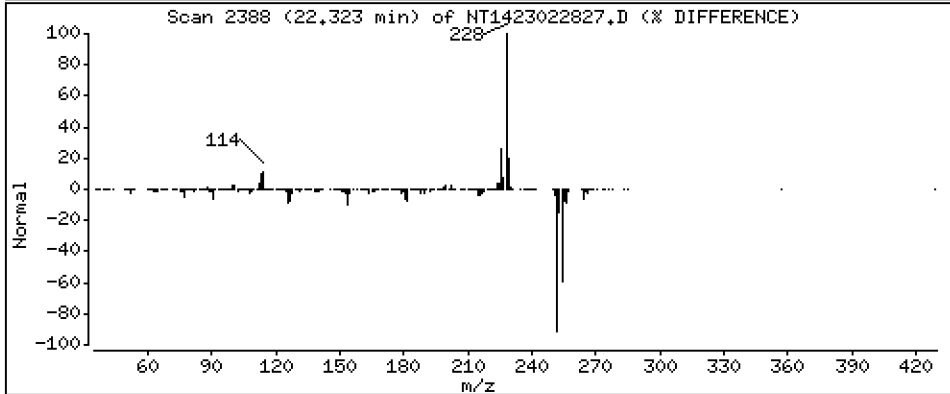
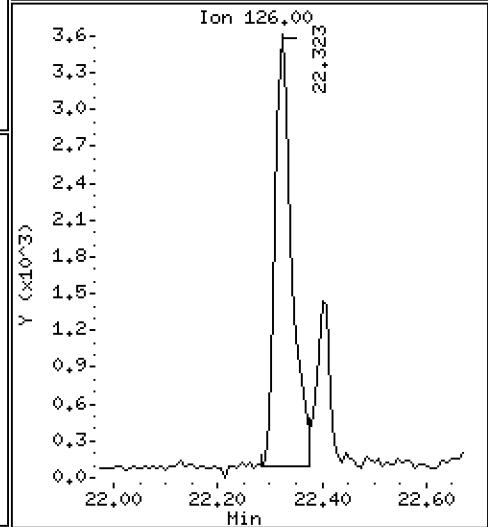
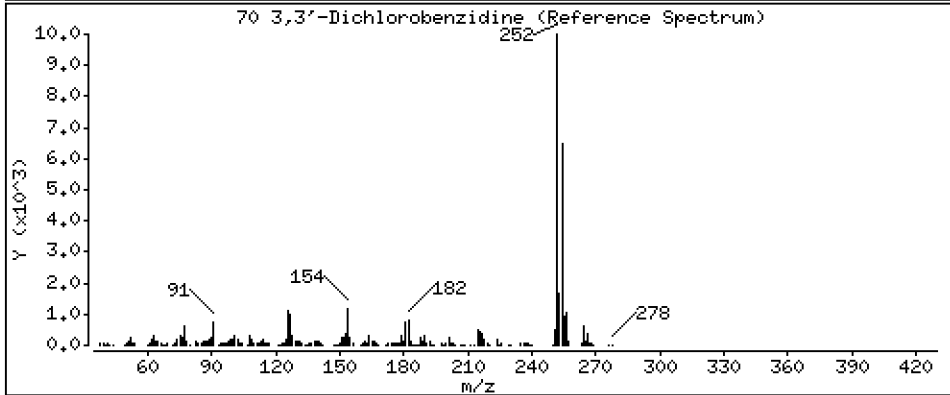
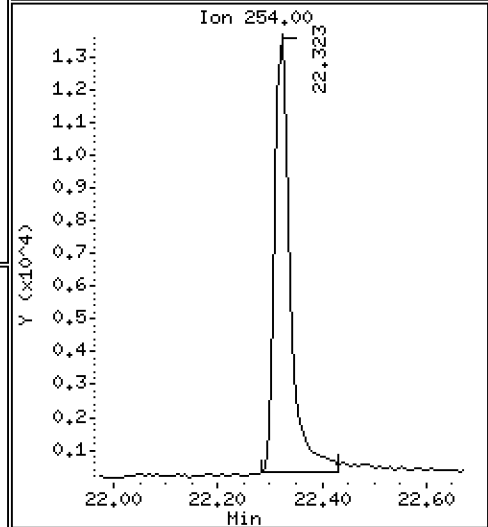
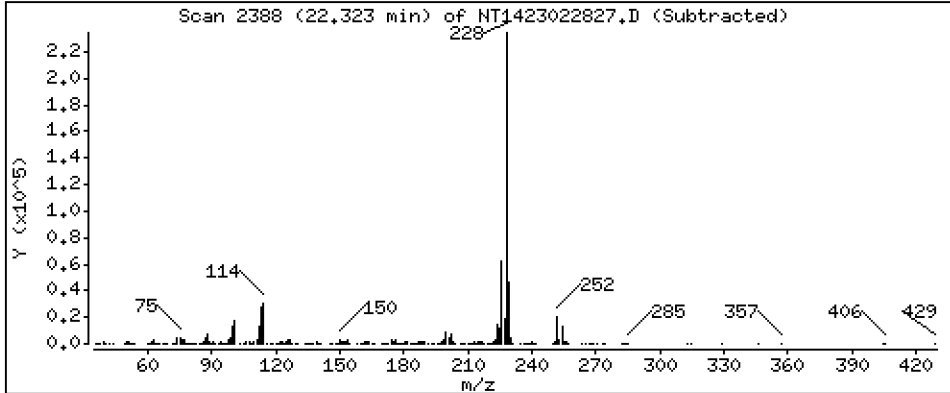
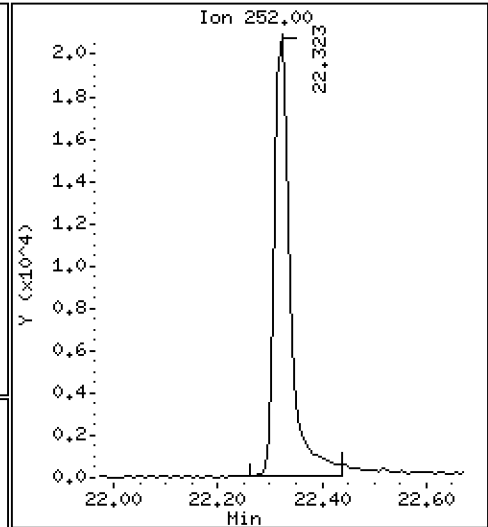
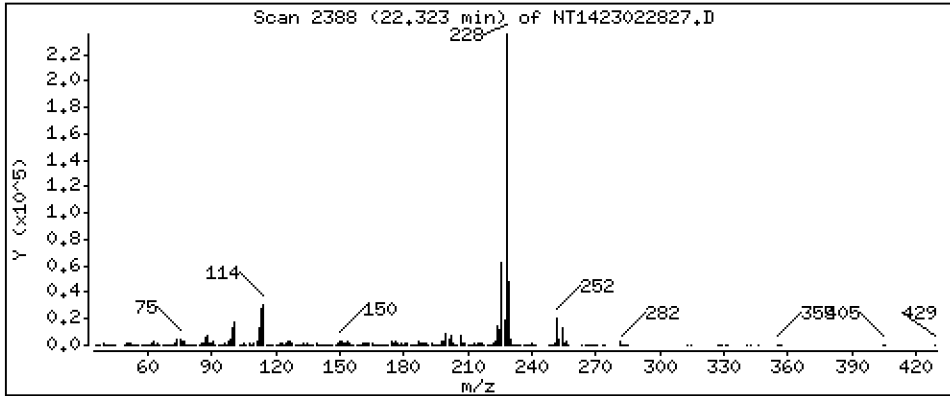
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 1,296 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

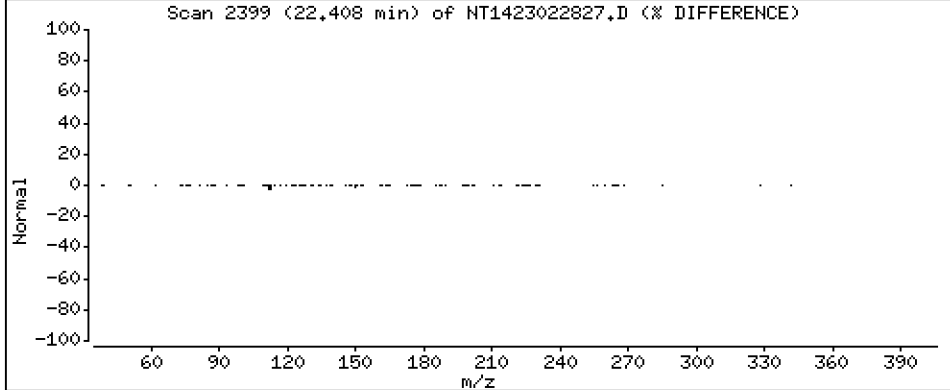
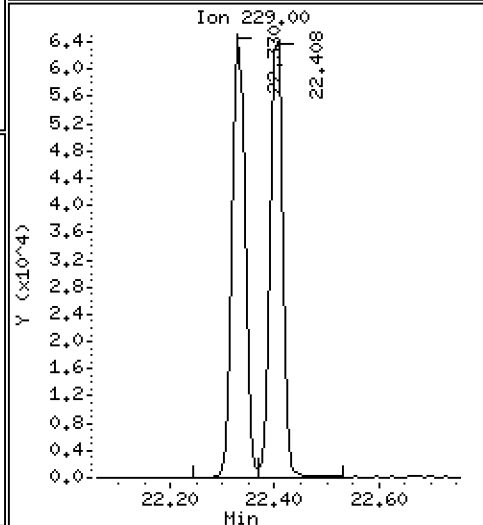
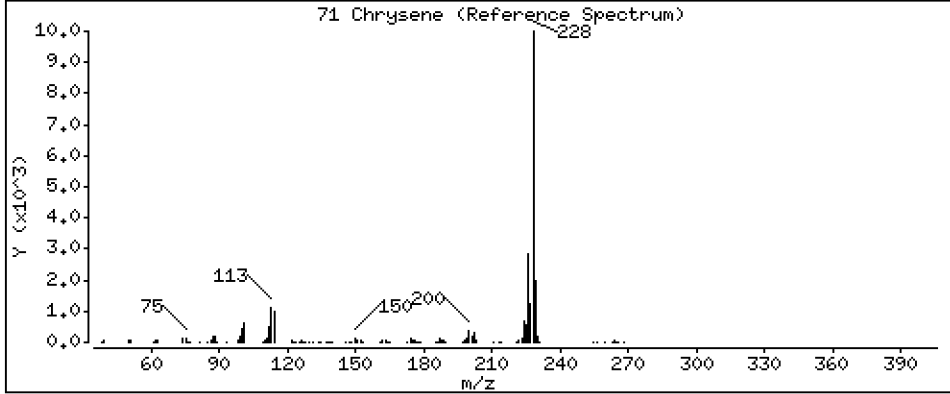
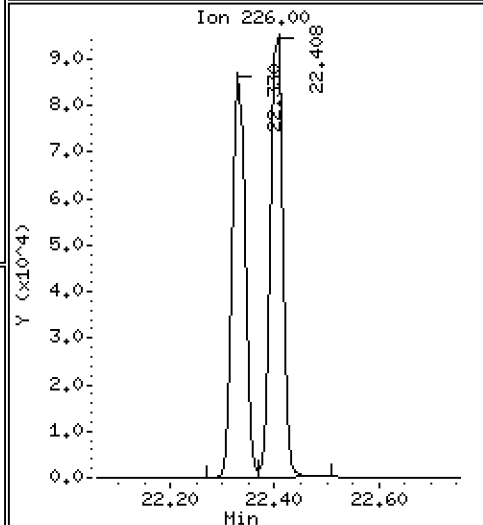
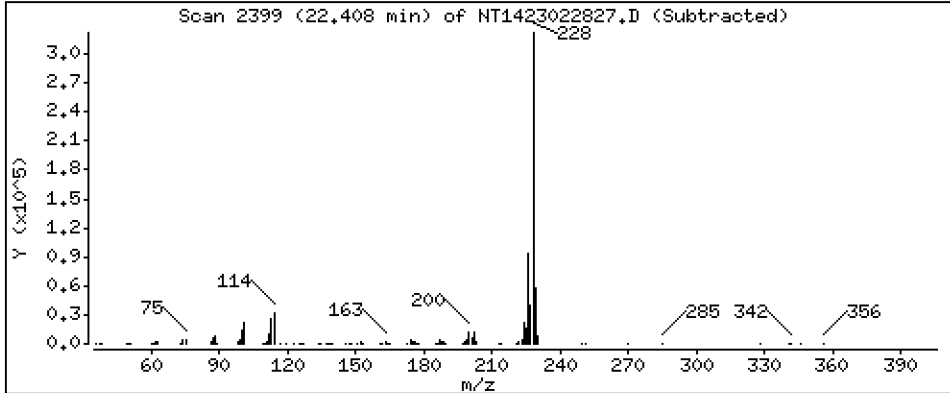
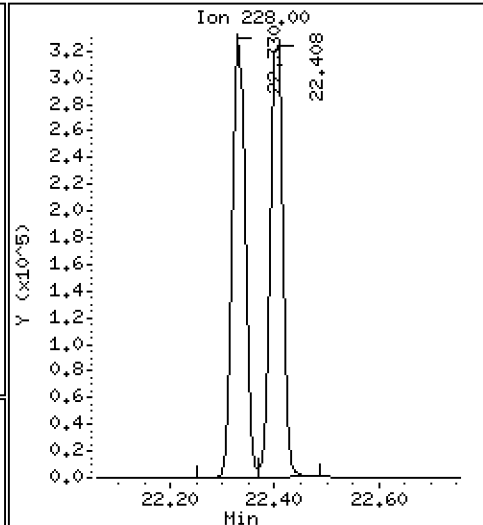
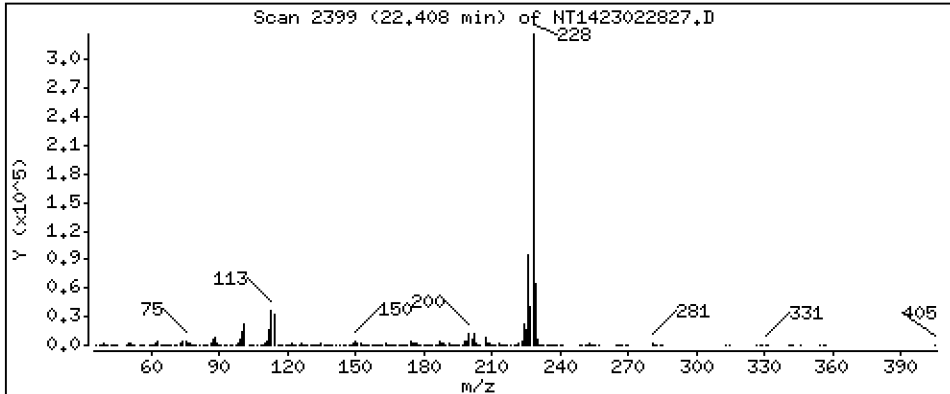
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,556 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

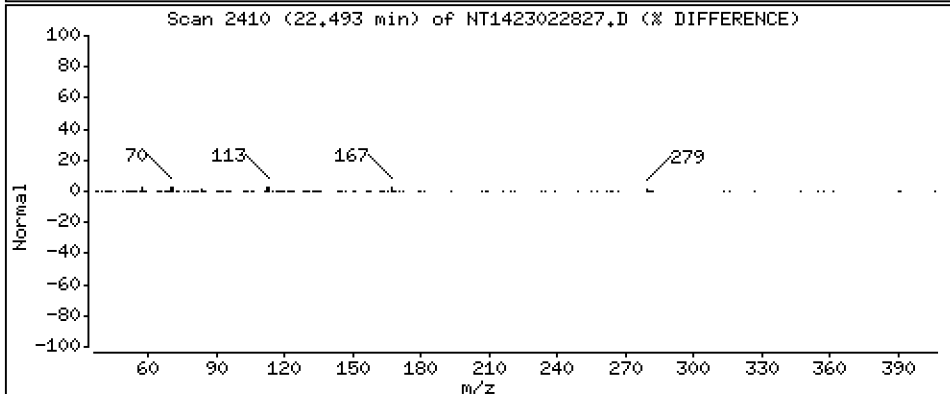
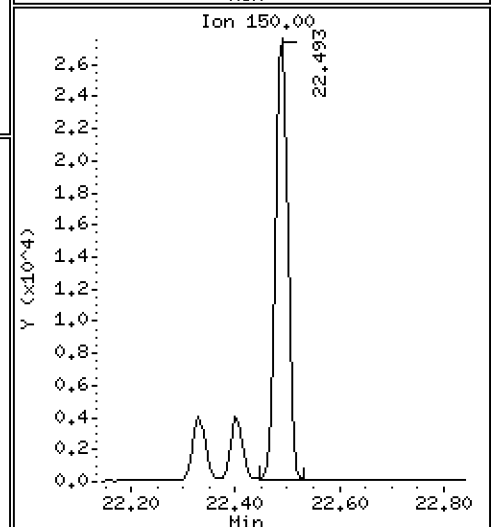
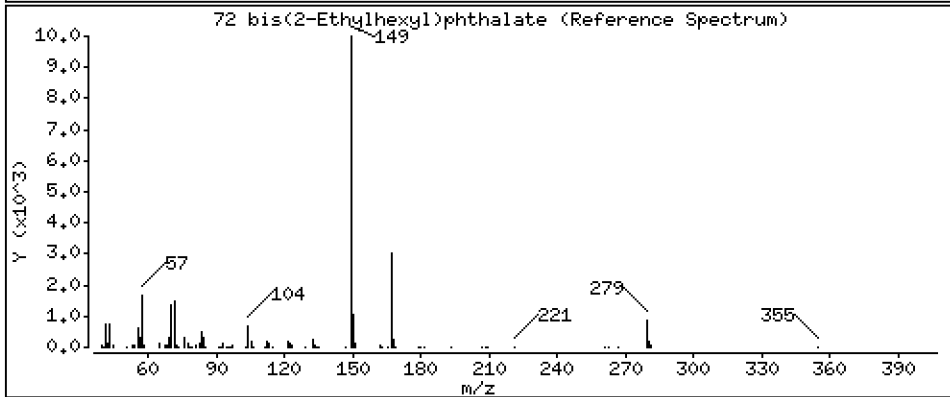
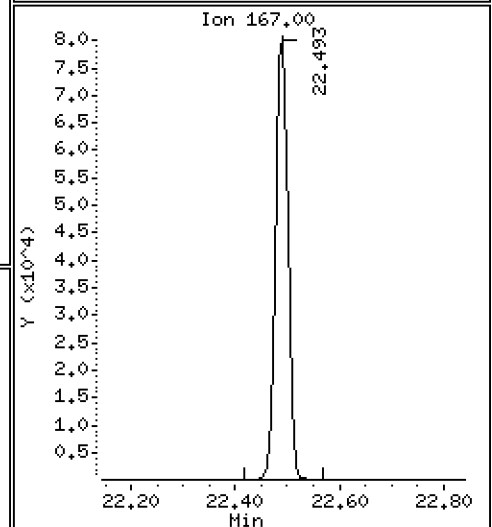
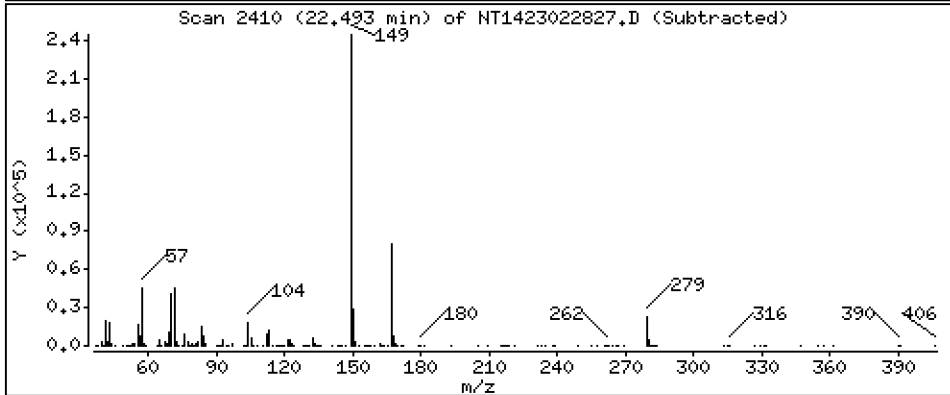
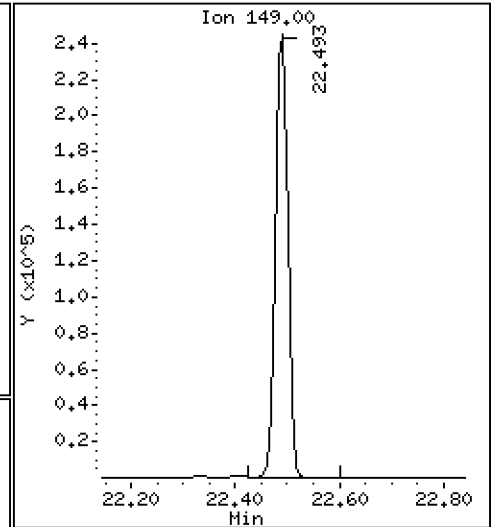
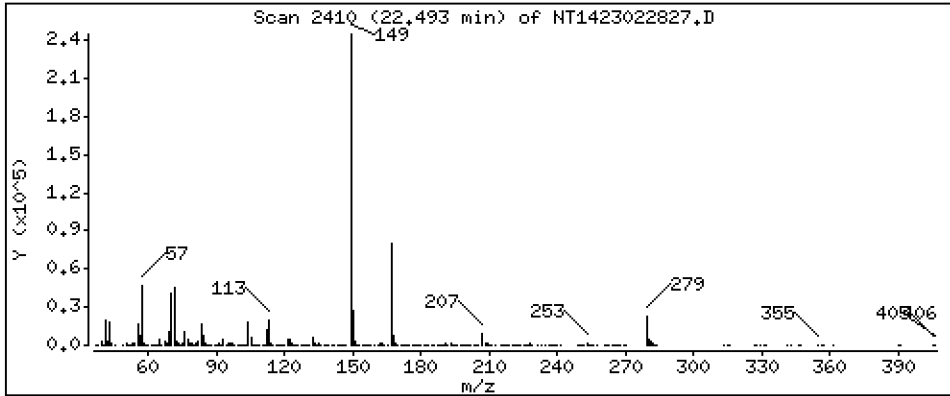
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,864 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

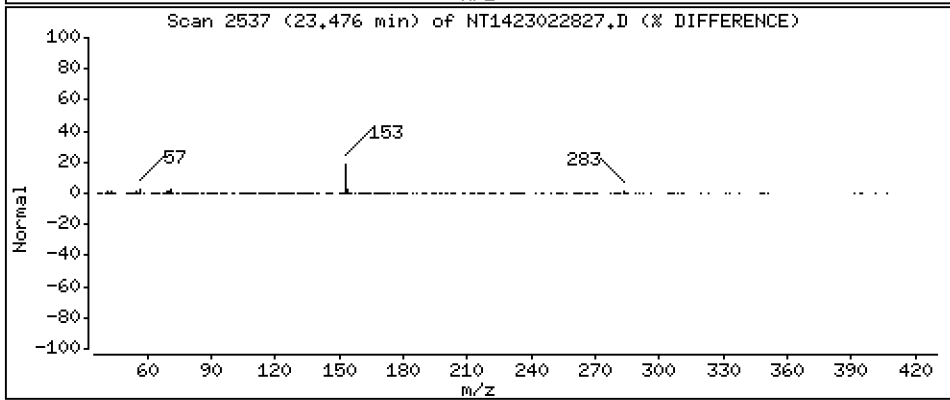
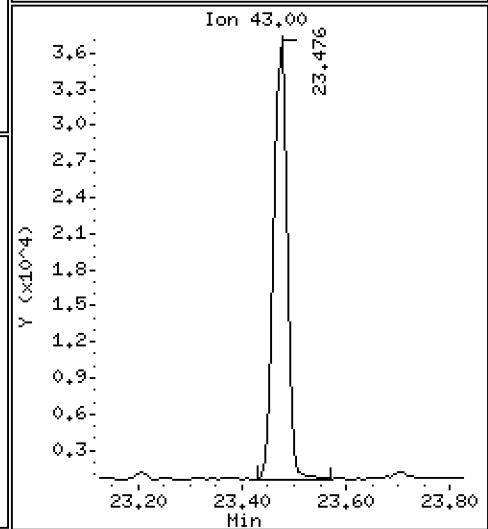
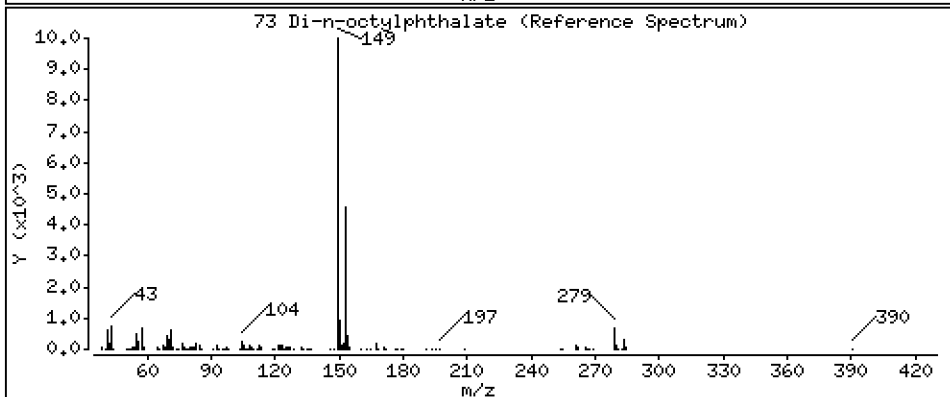
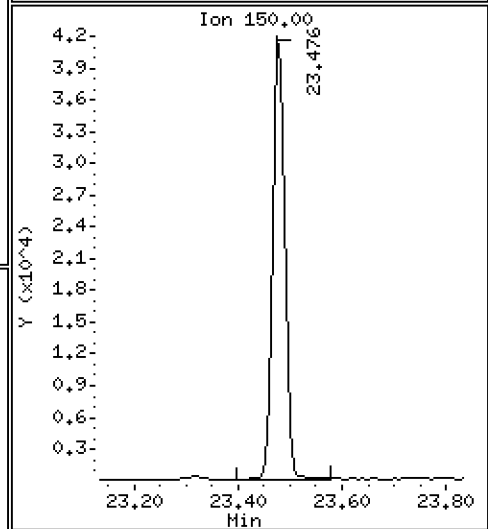
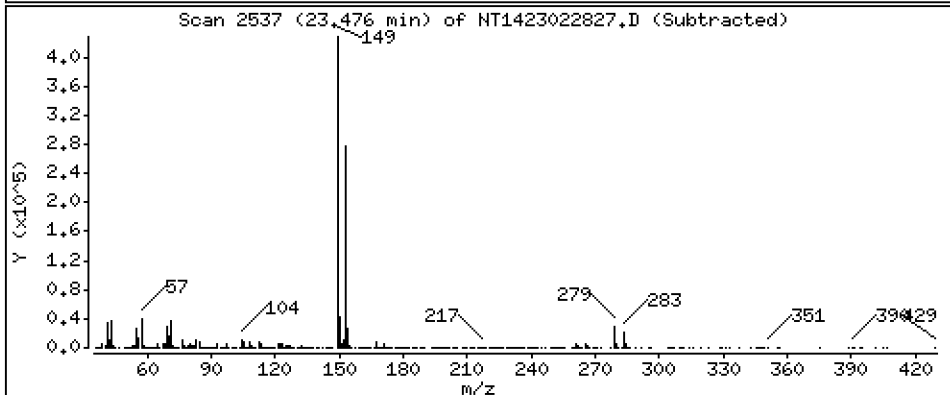
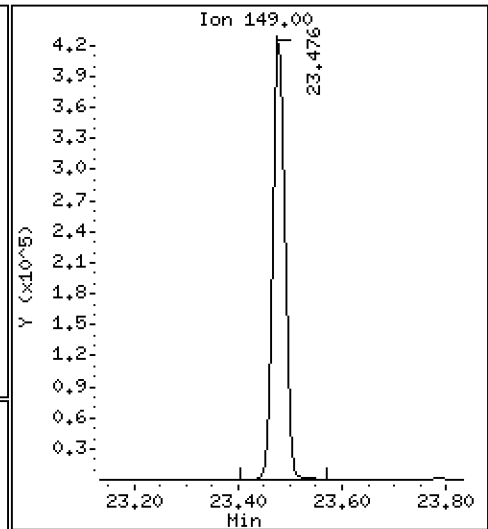
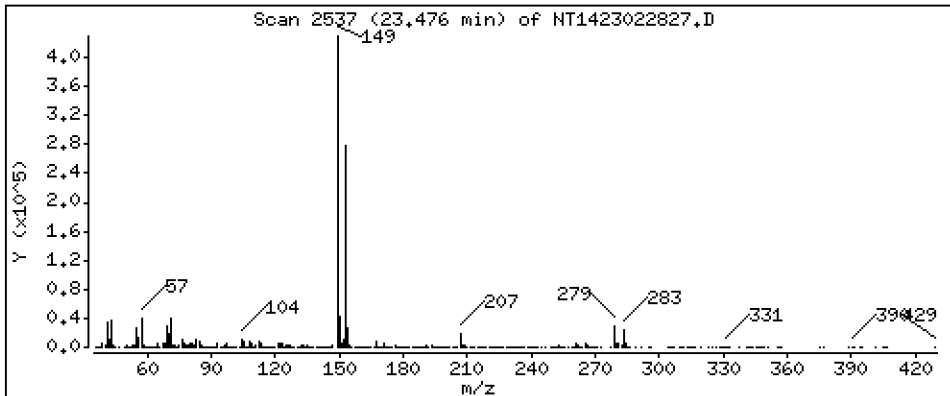
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,844 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

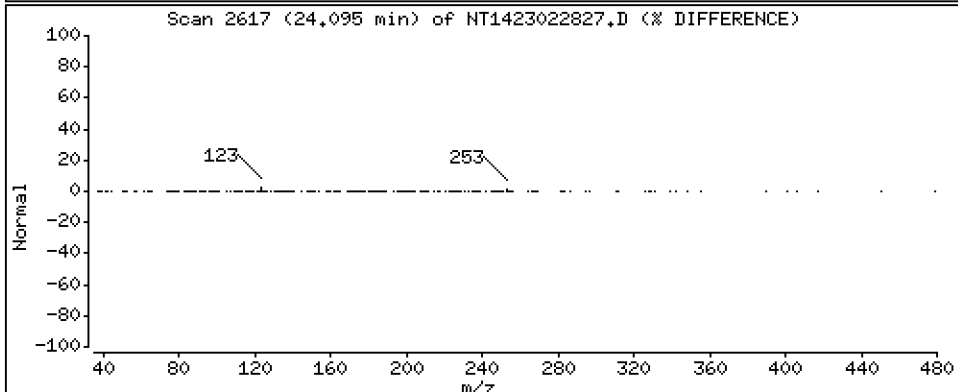
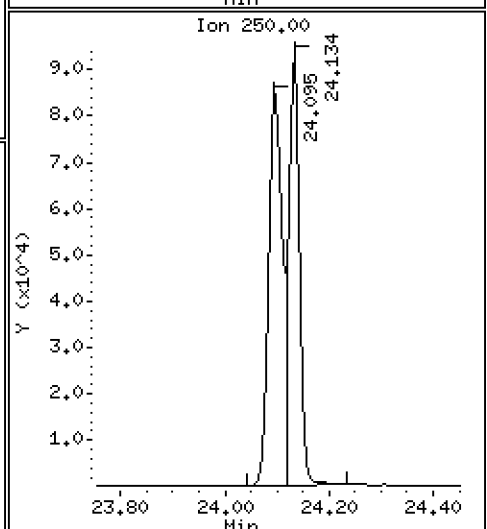
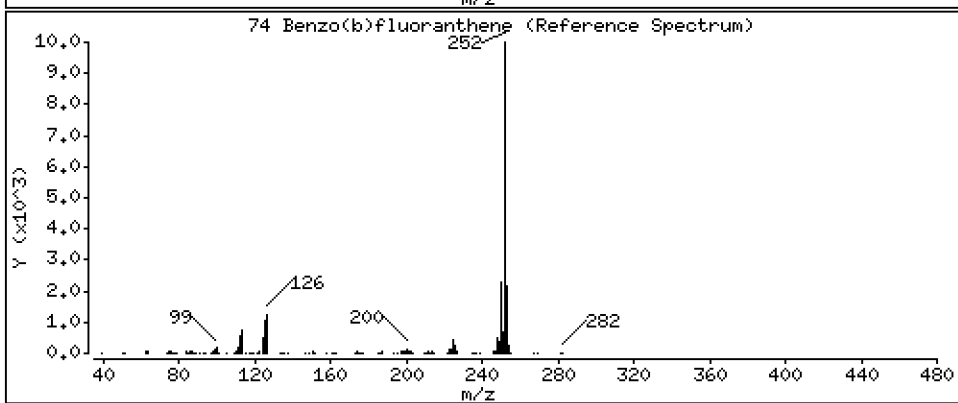
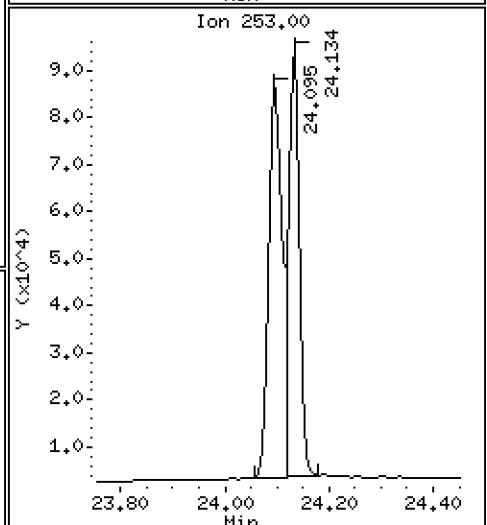
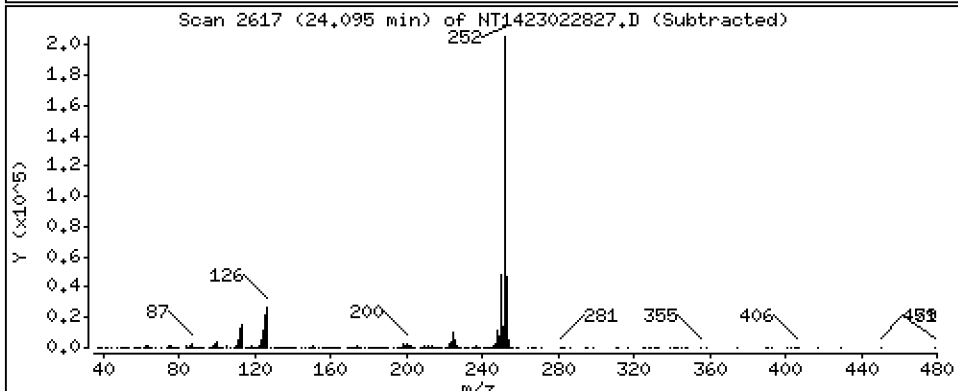
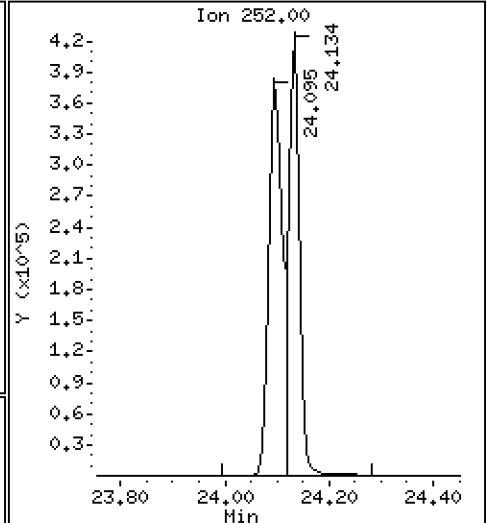
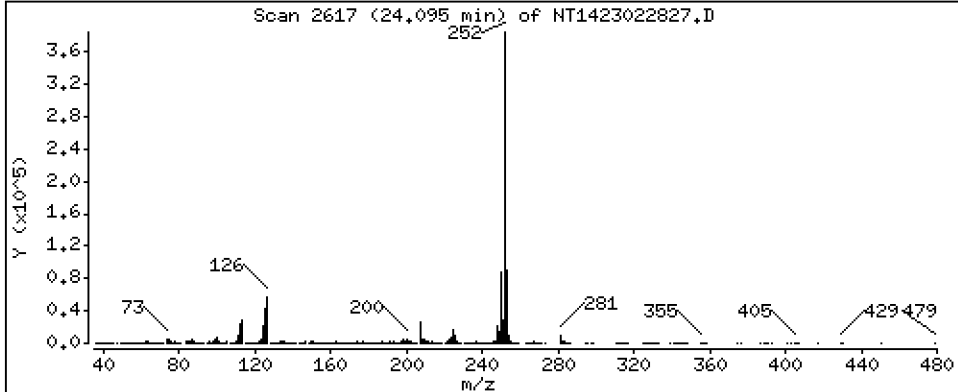
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 5,218 ug/mL





Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

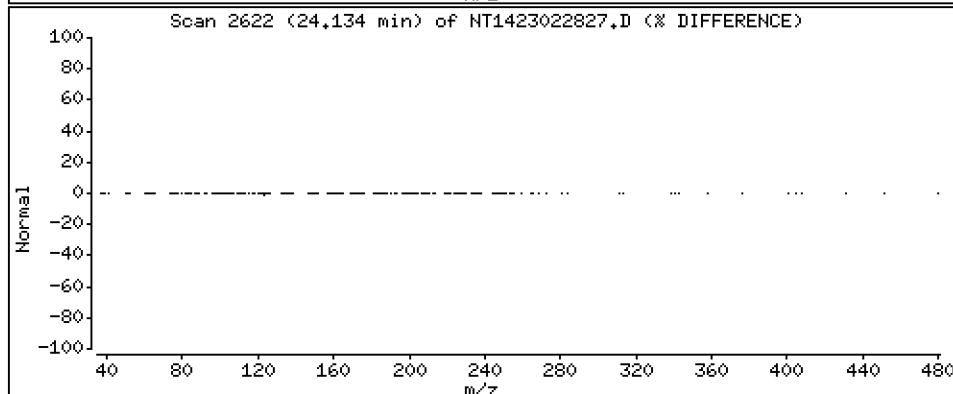
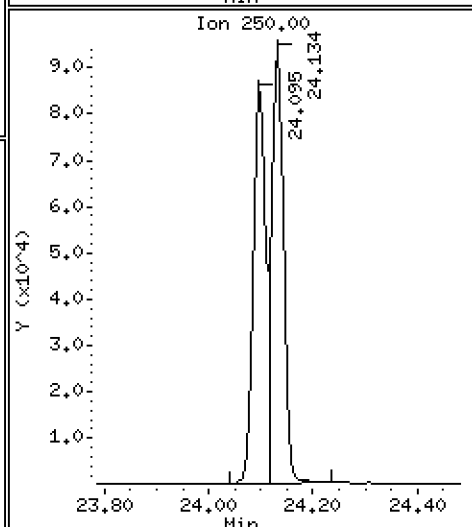
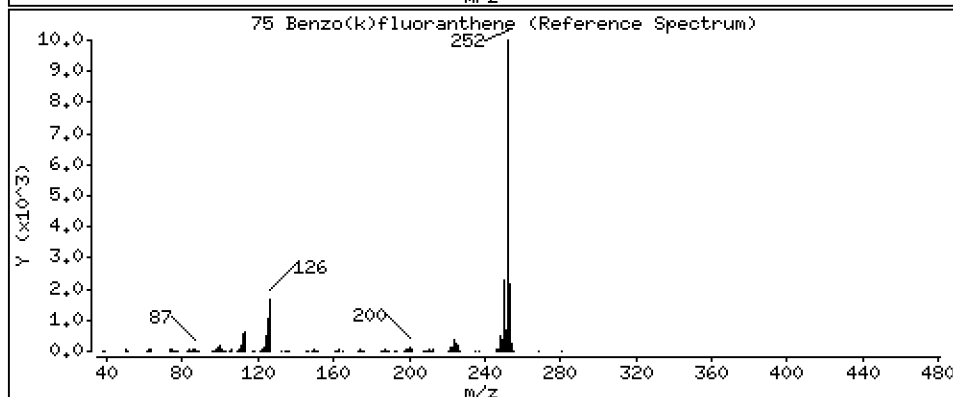
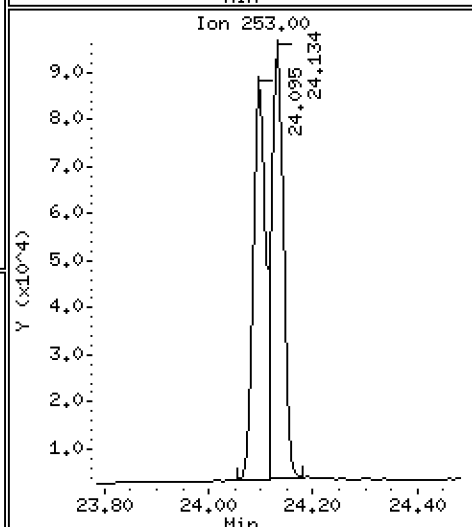
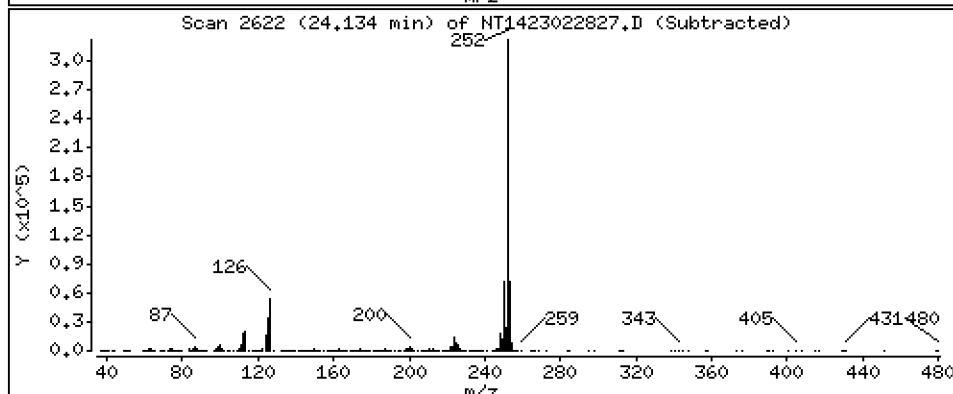
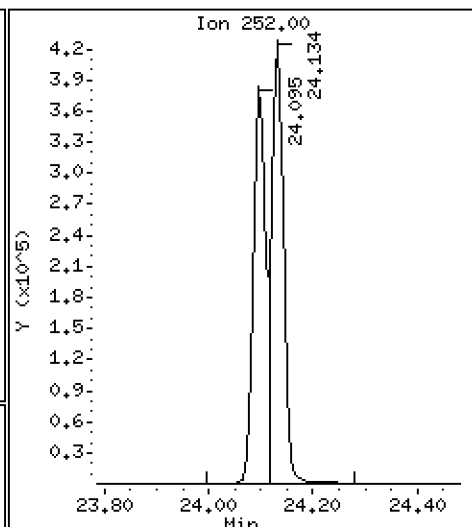
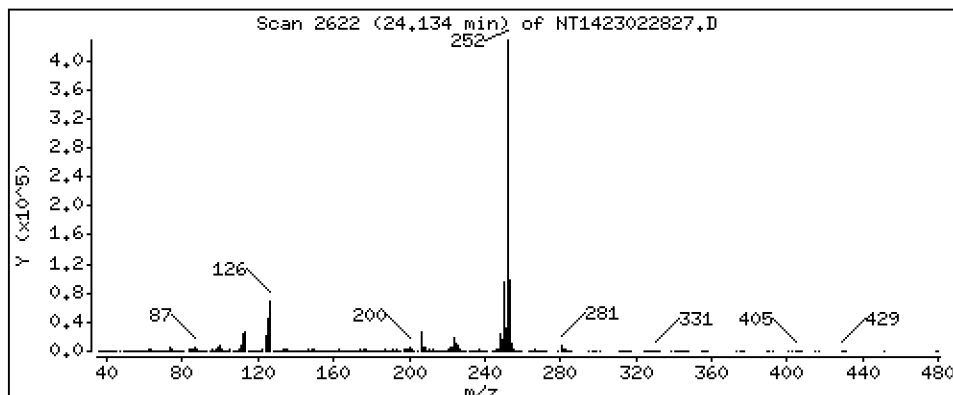
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,387 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

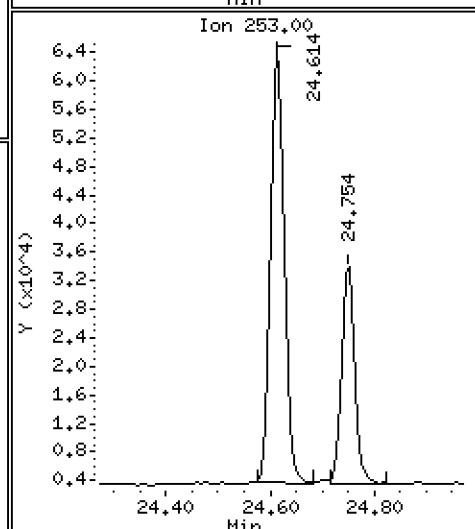
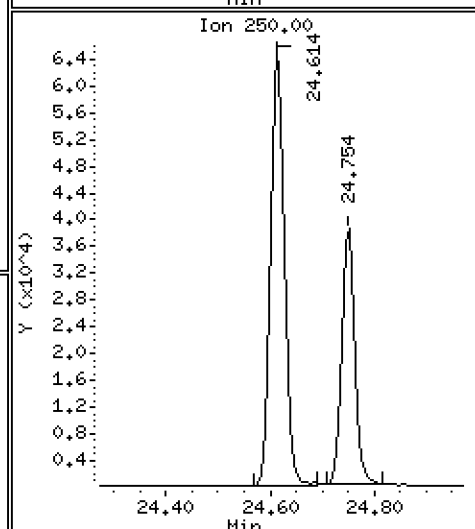
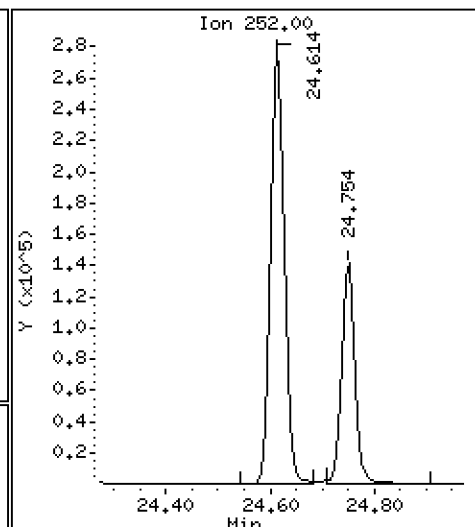
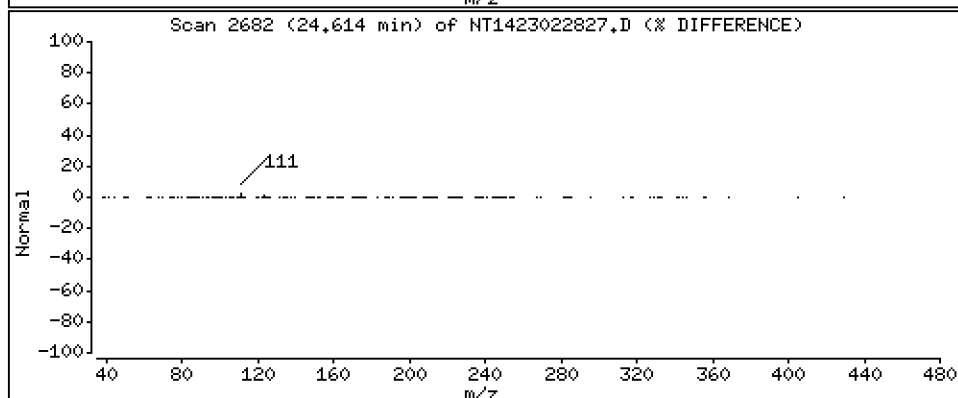
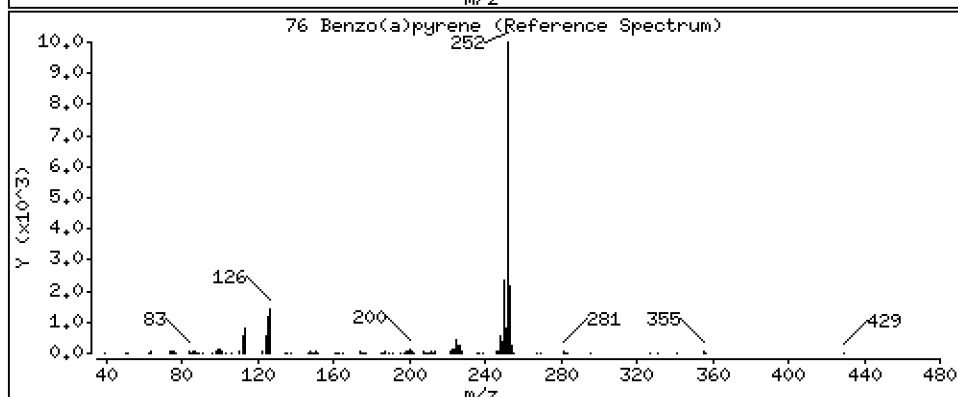
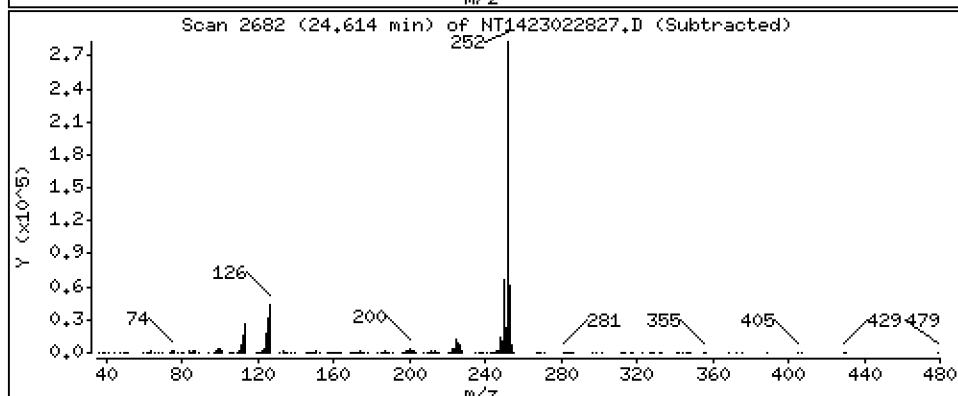
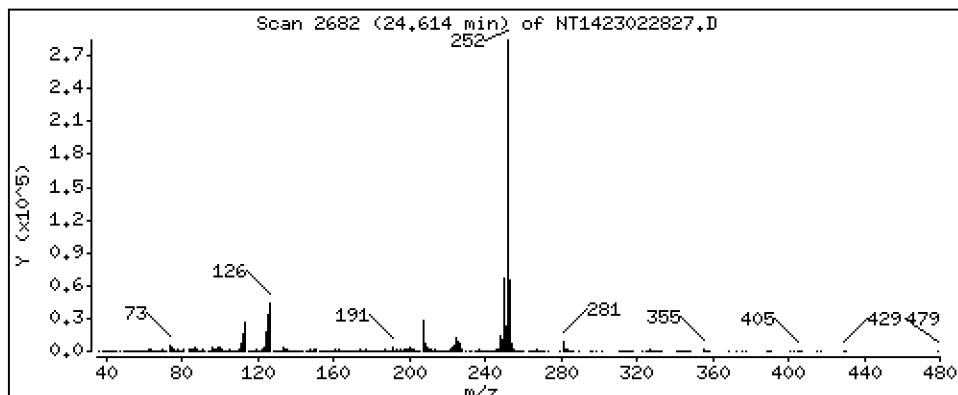
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,254 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

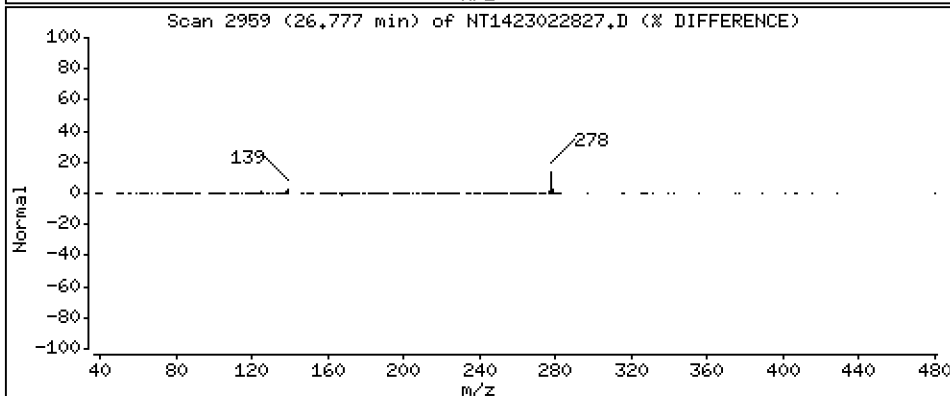
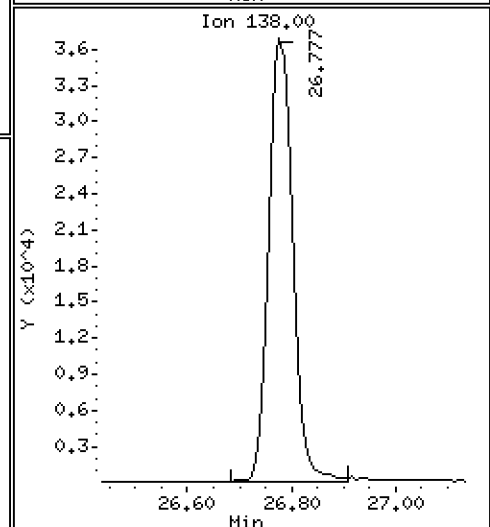
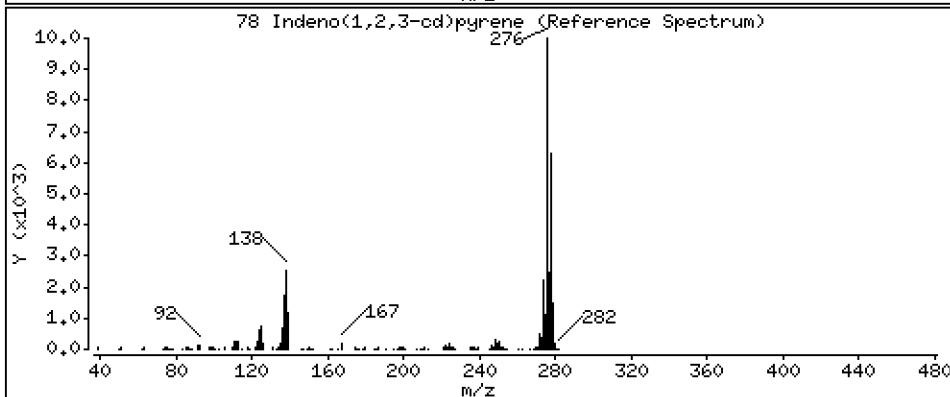
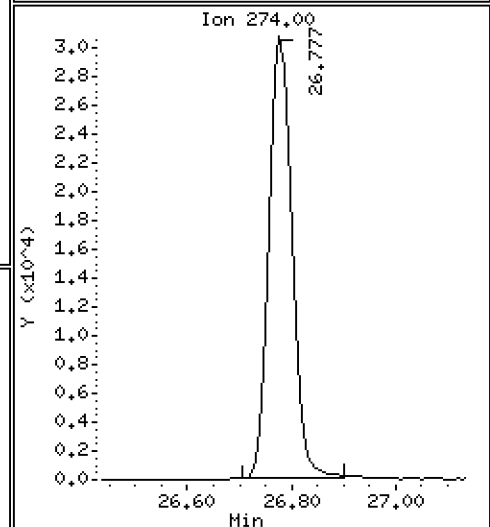
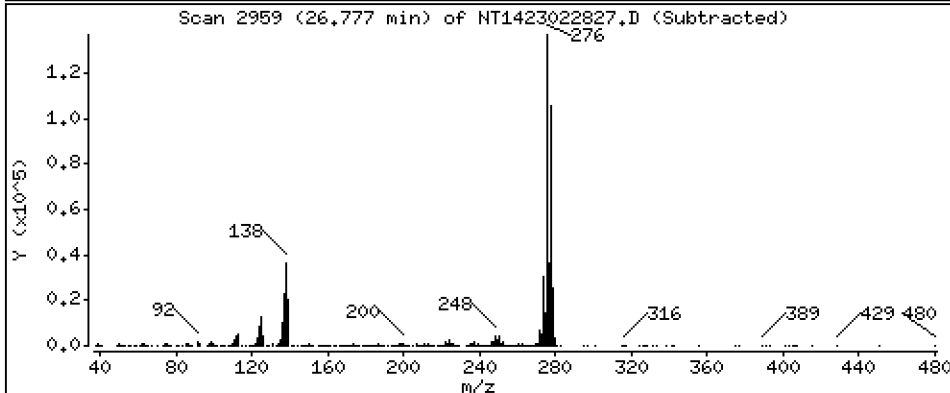
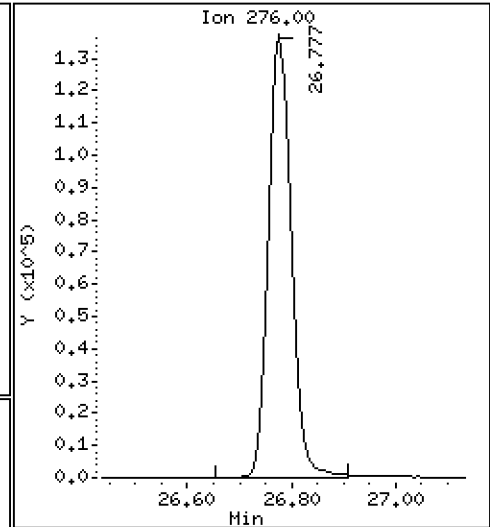
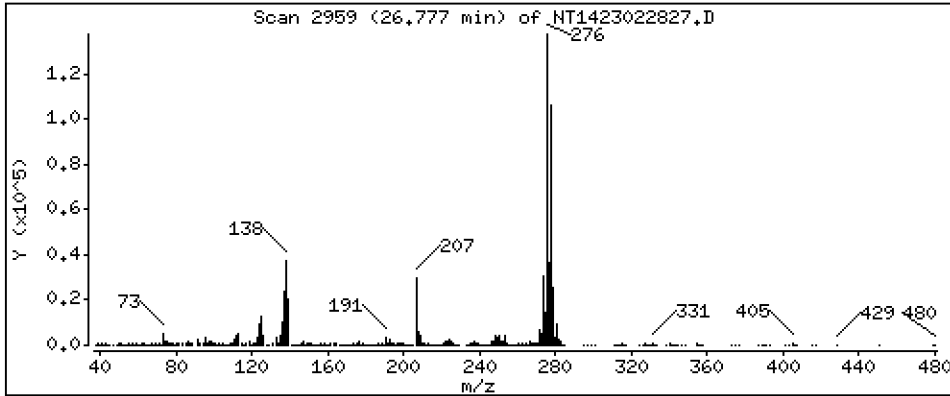
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 2,814 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

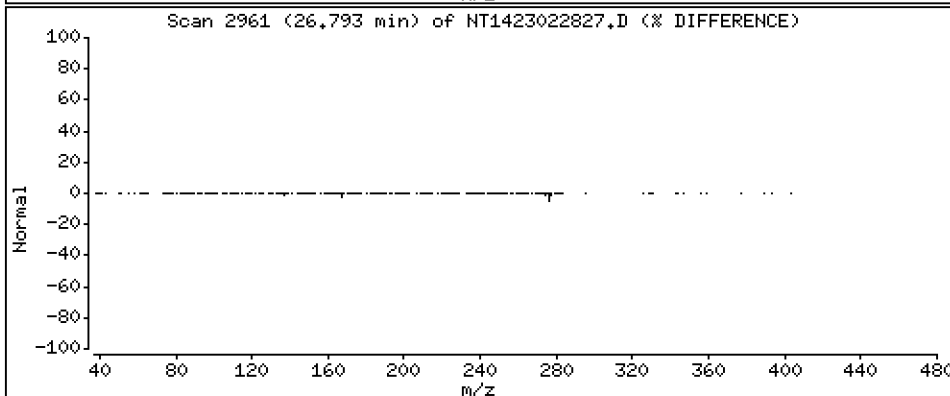
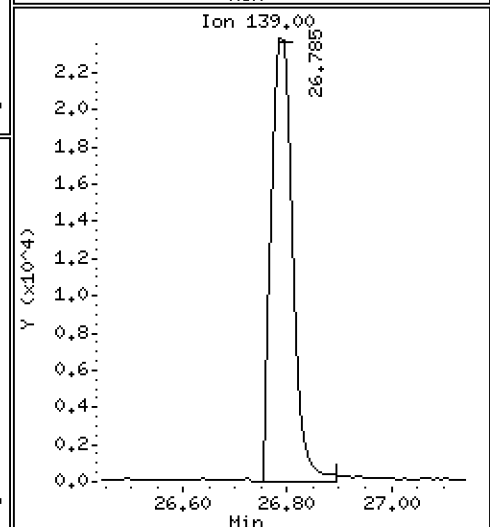
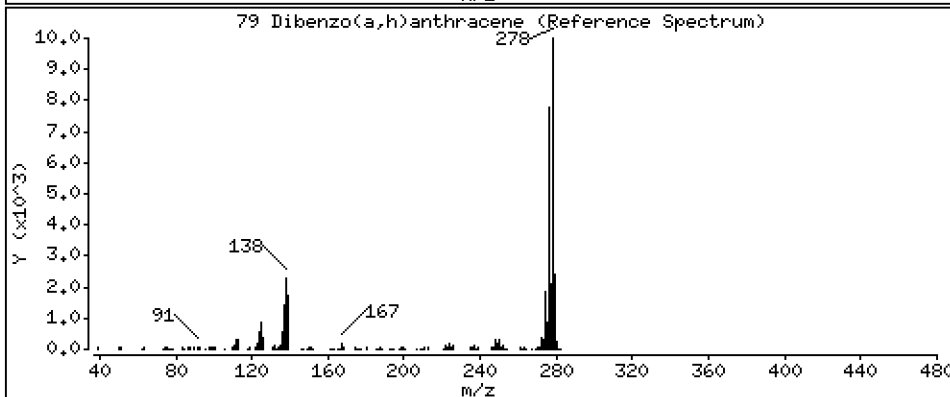
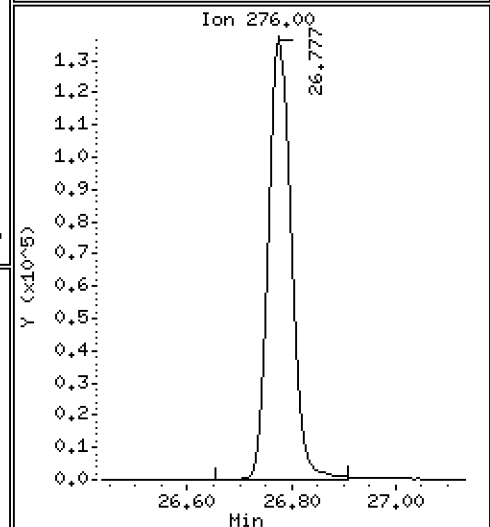
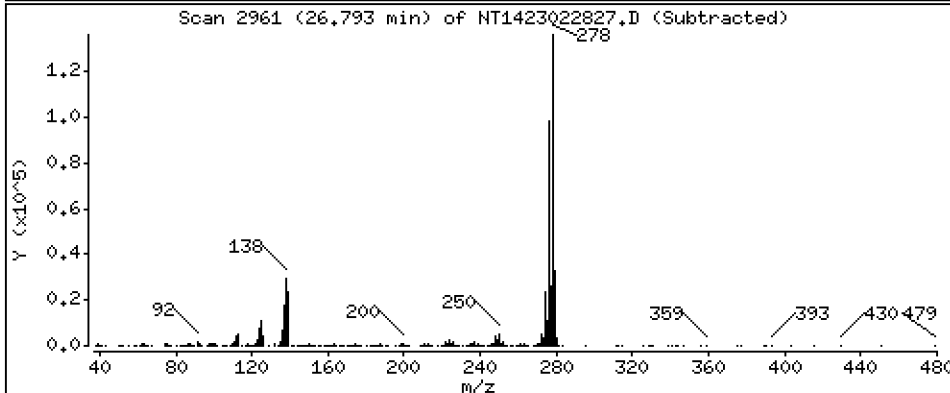
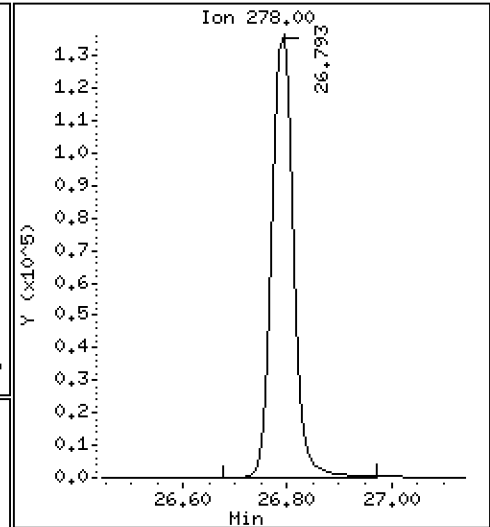
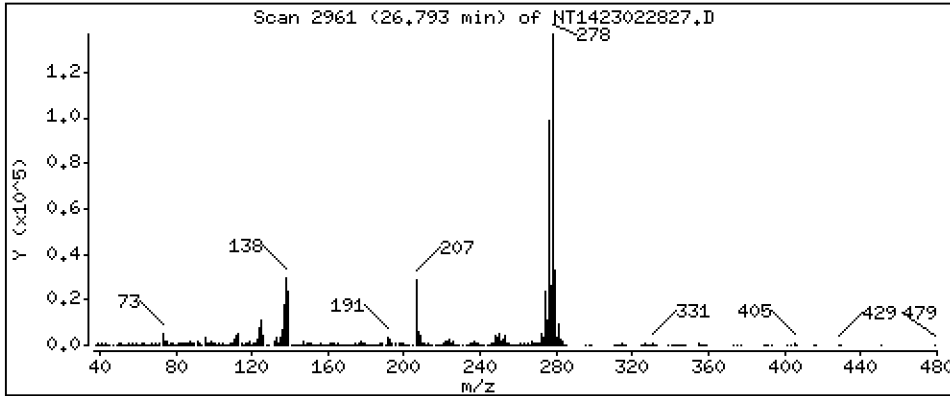
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 3,099 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

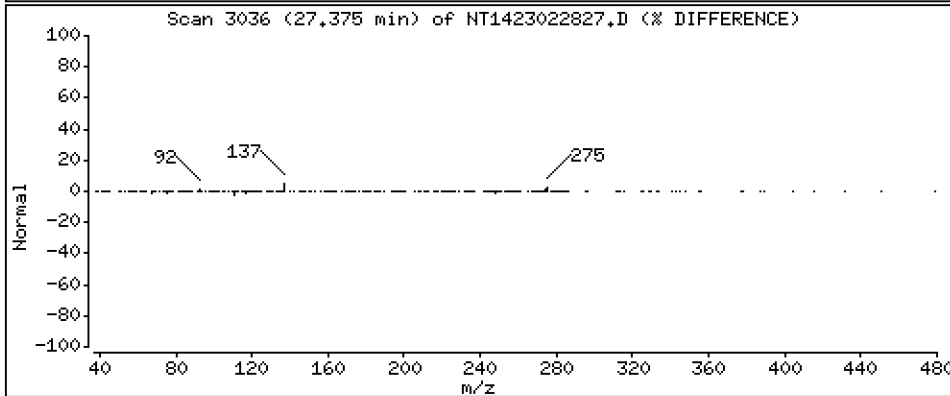
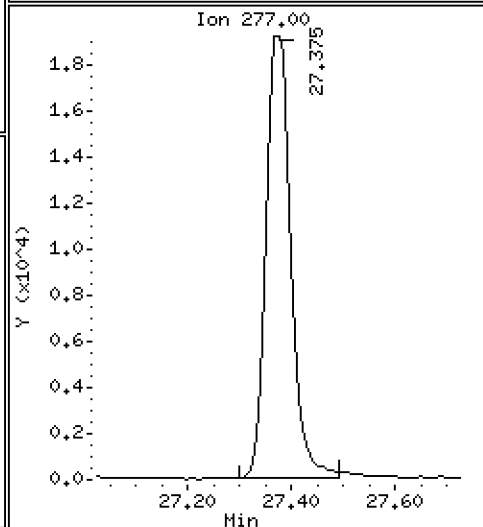
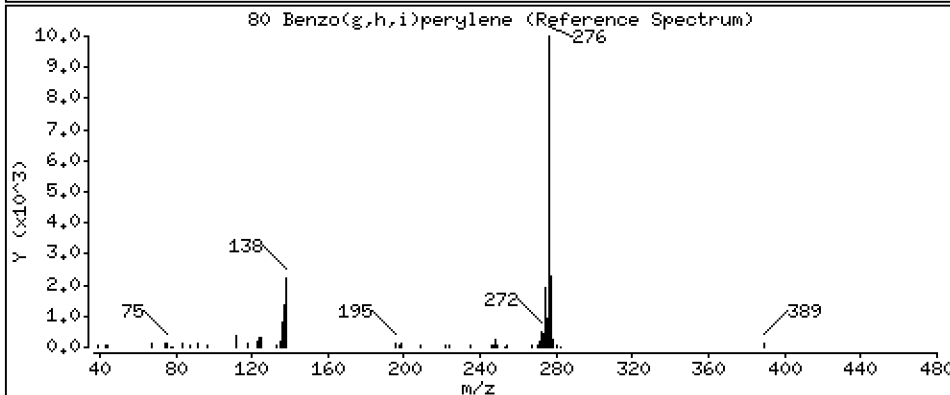
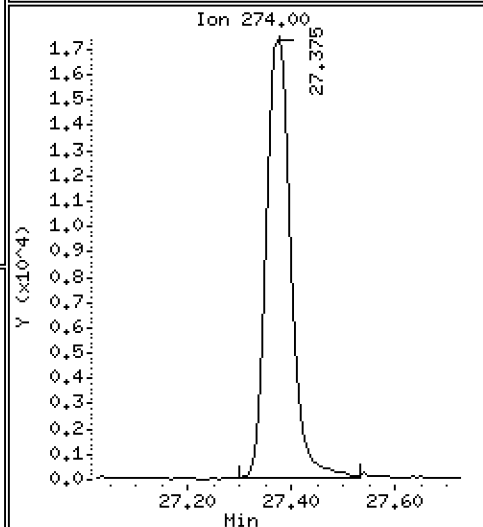
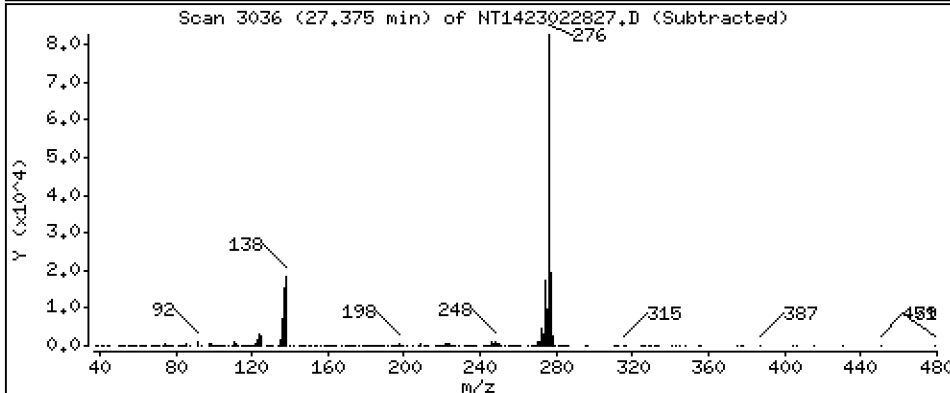
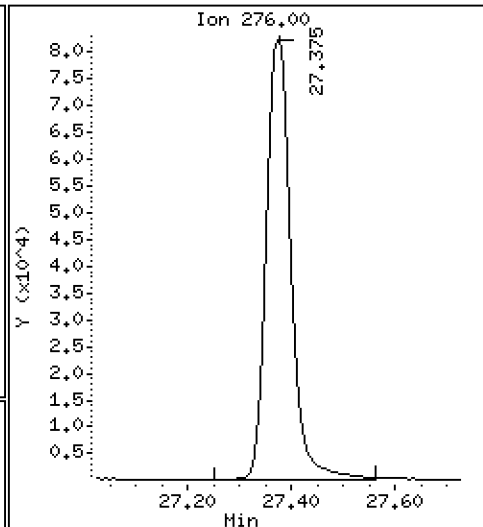
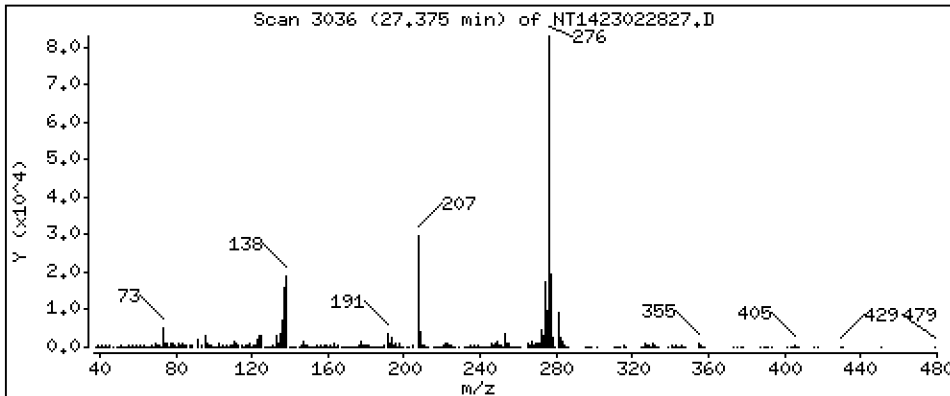
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 2,078 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

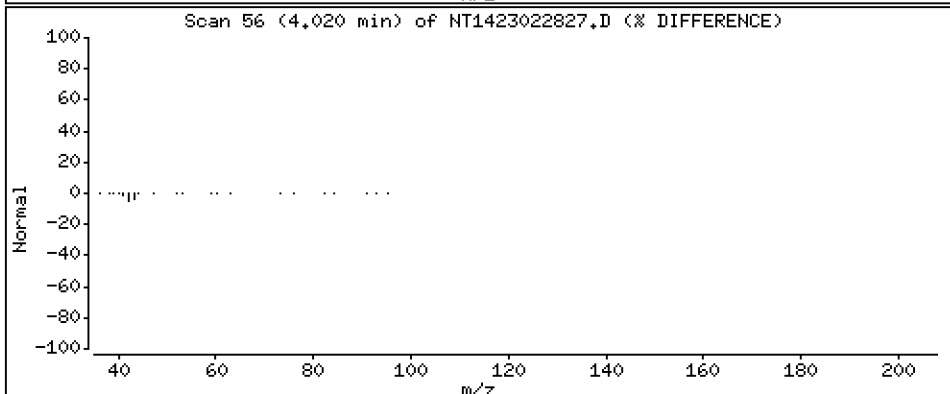
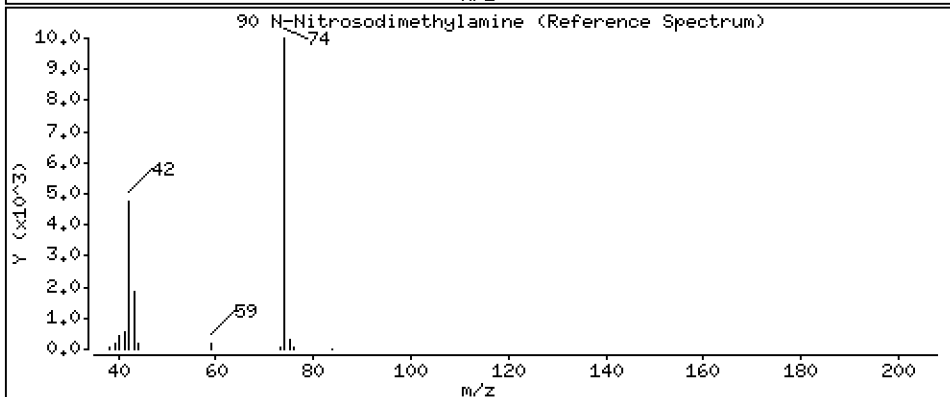
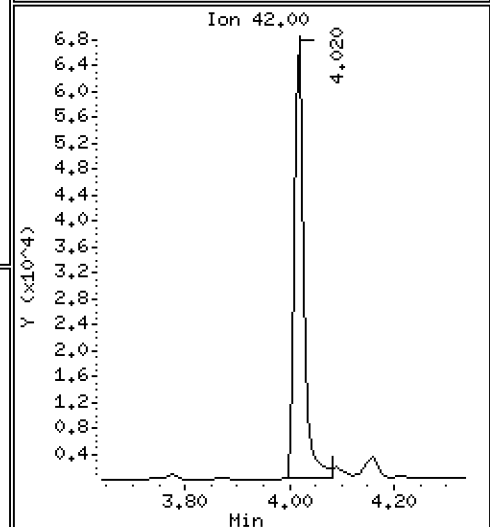
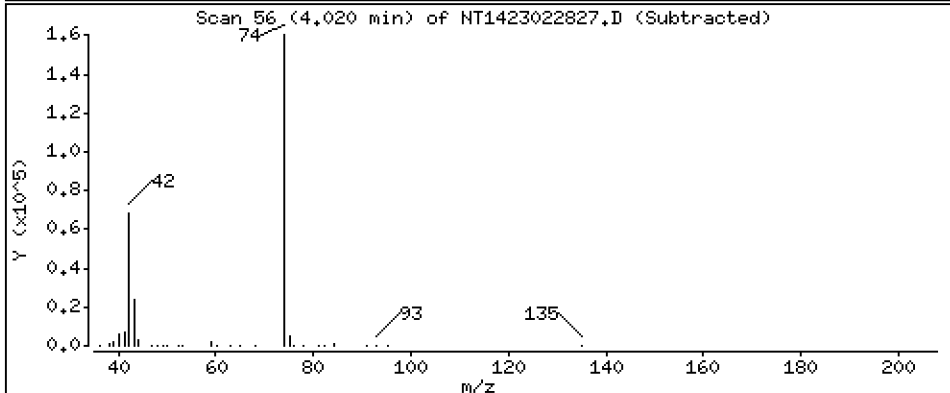
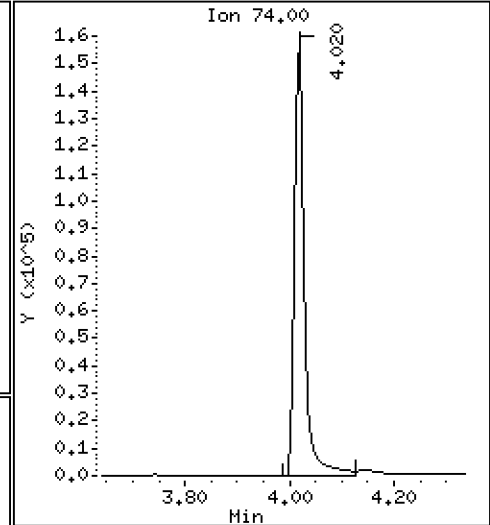
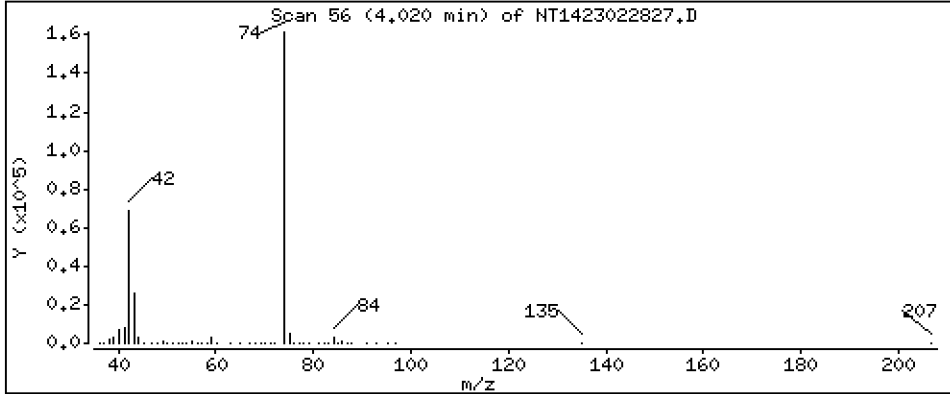
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 10,08 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

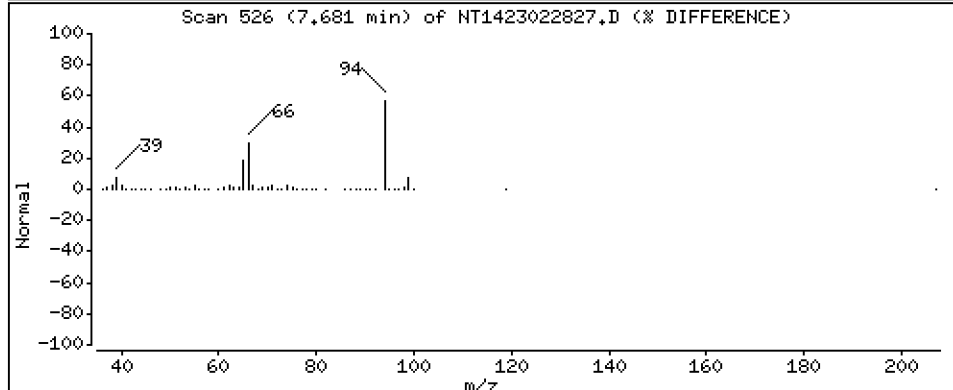
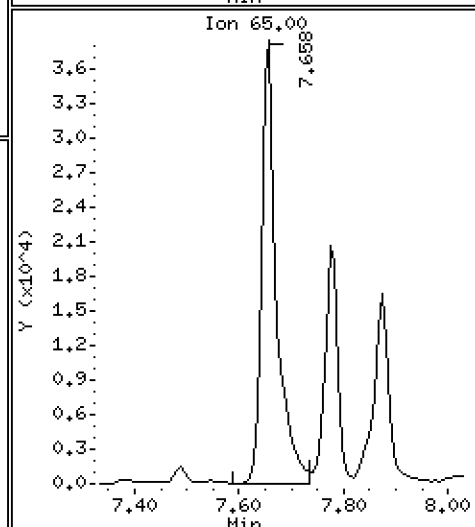
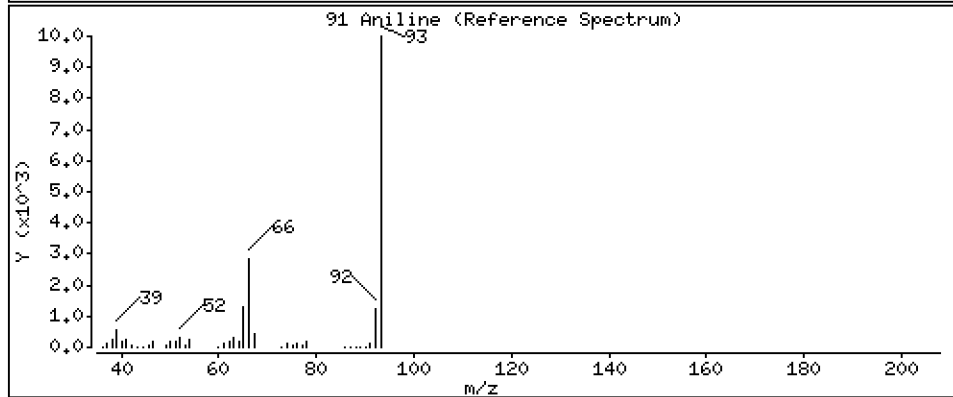
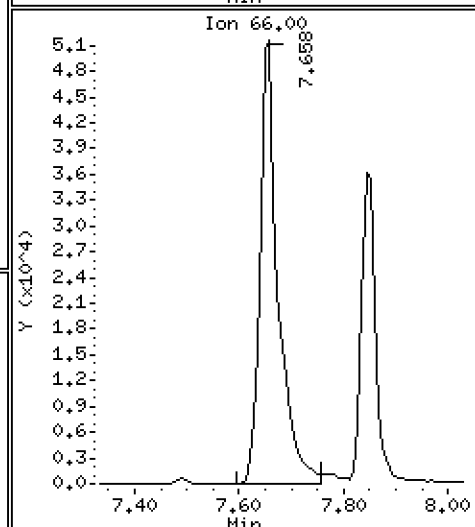
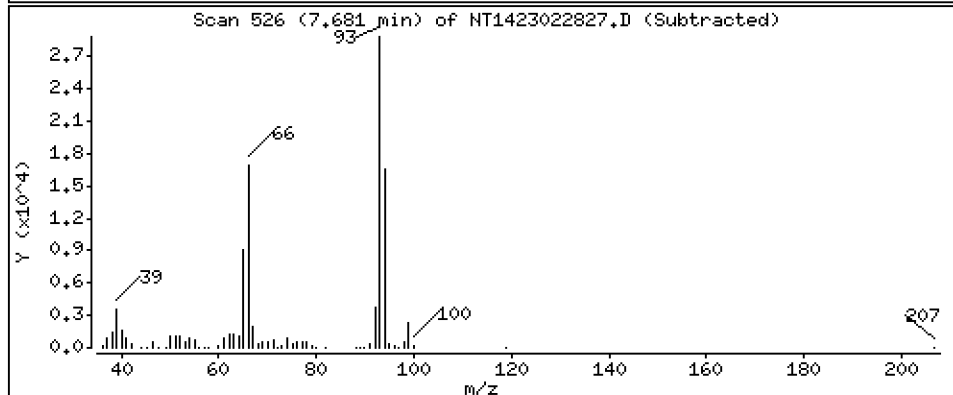
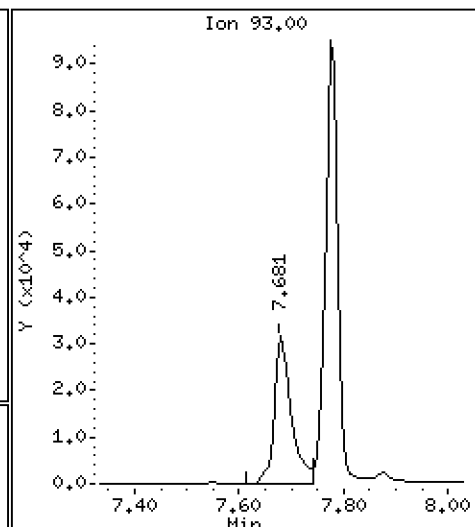
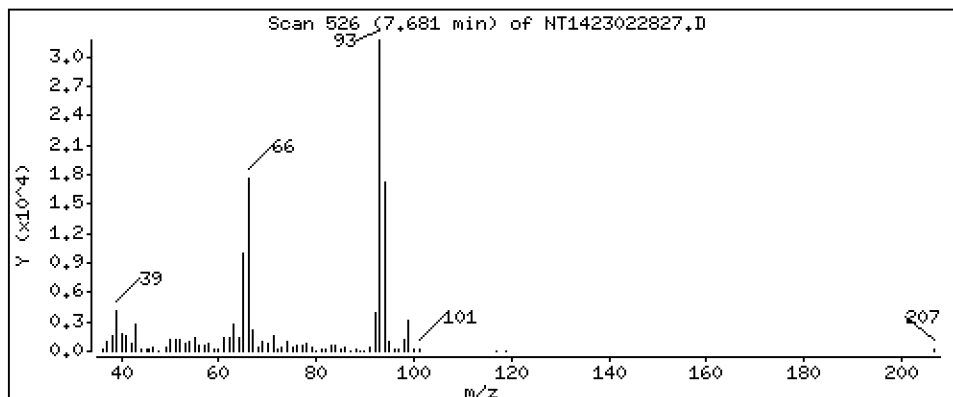
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 1.276 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

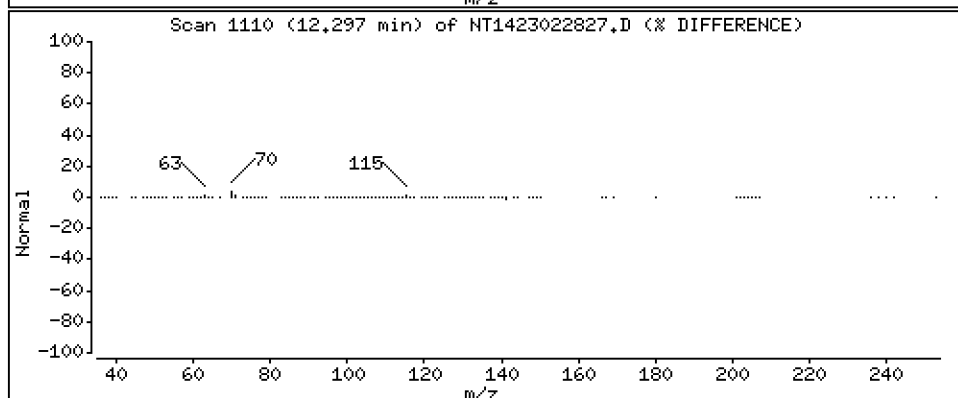
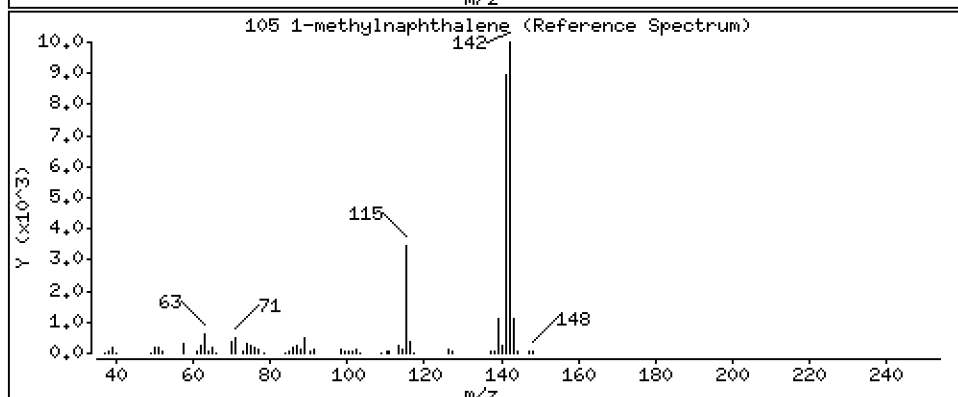
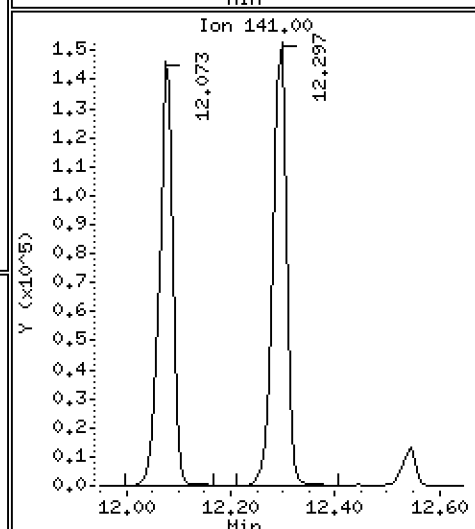
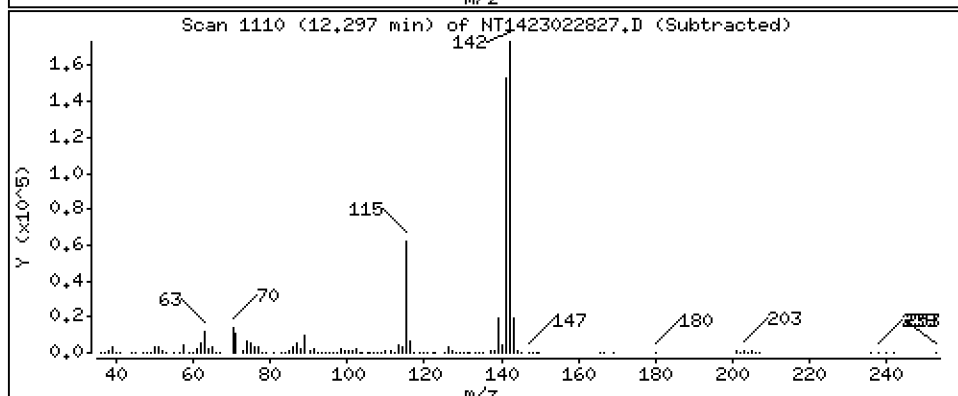
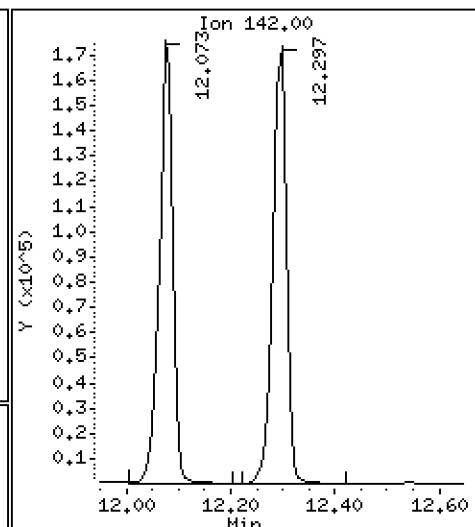
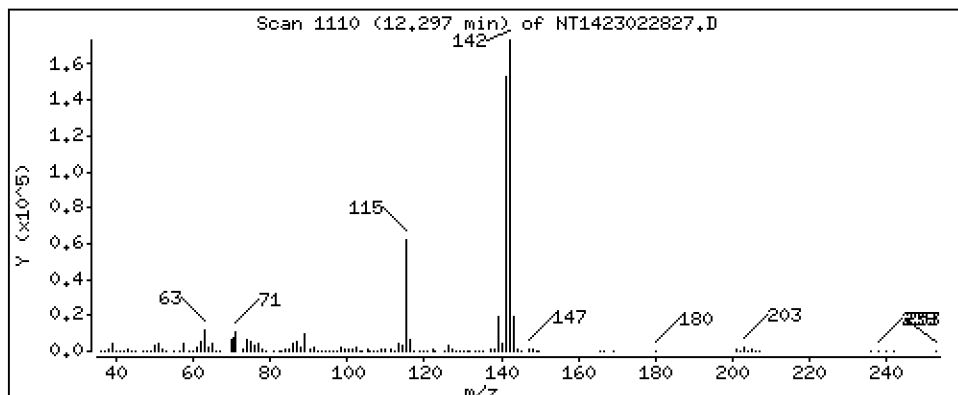
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 3,992 ug/mL





Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

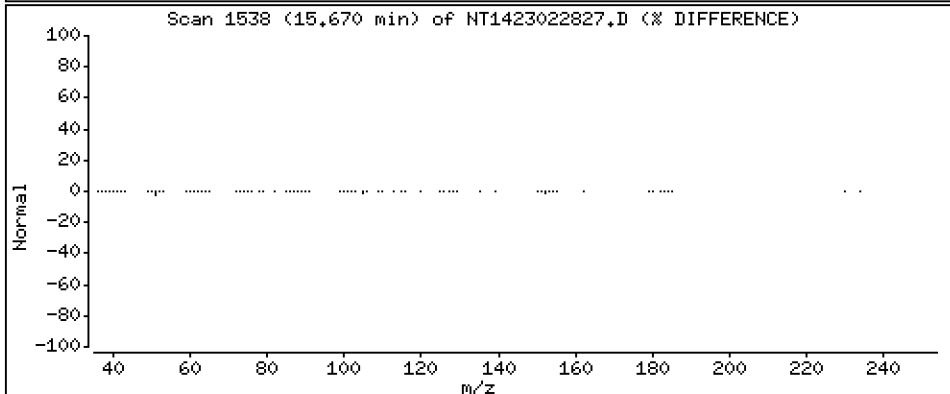
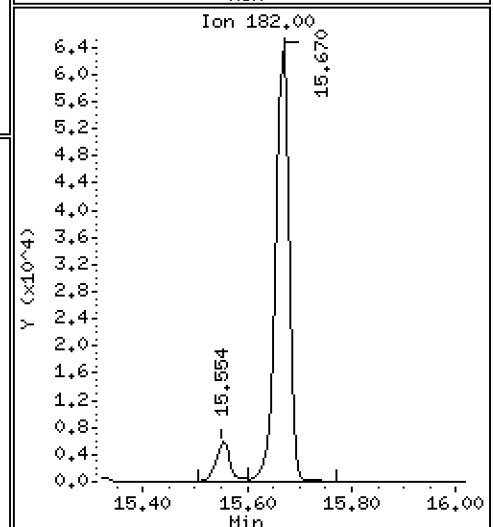
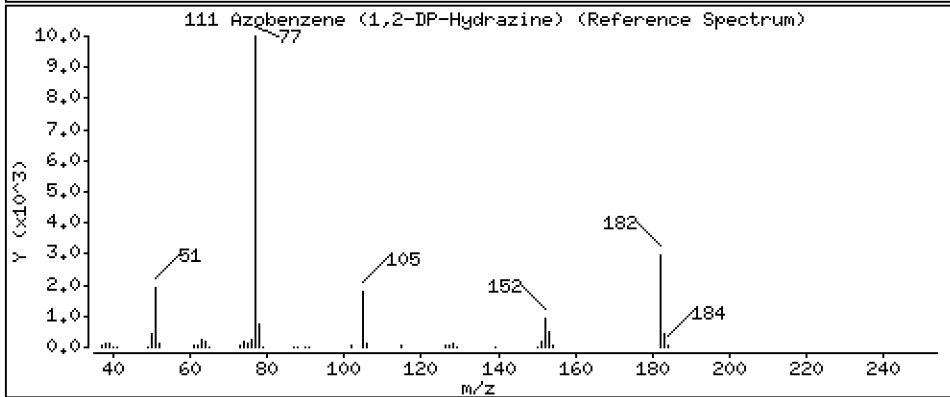
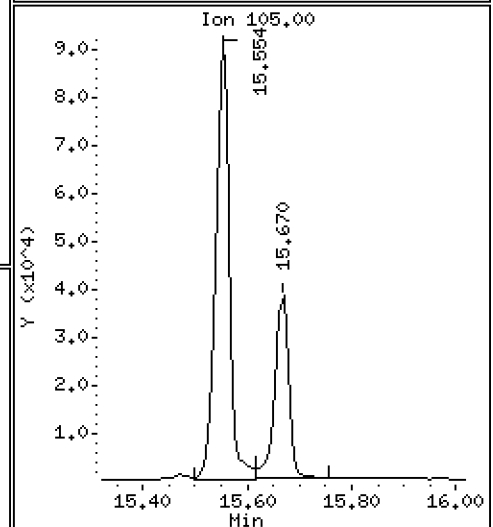
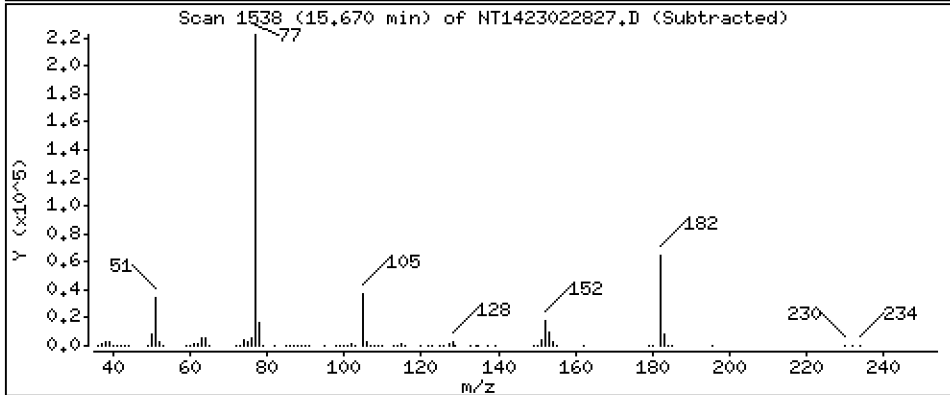
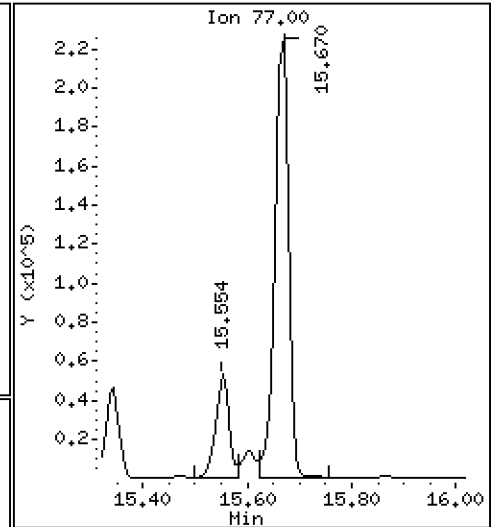
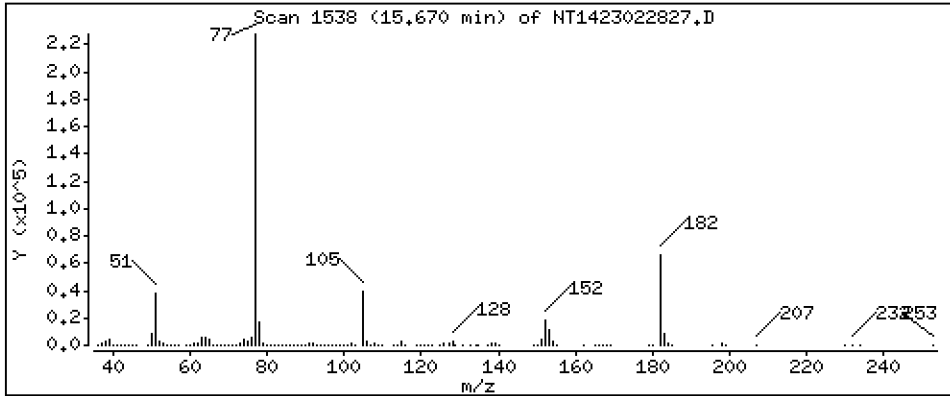
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,679 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

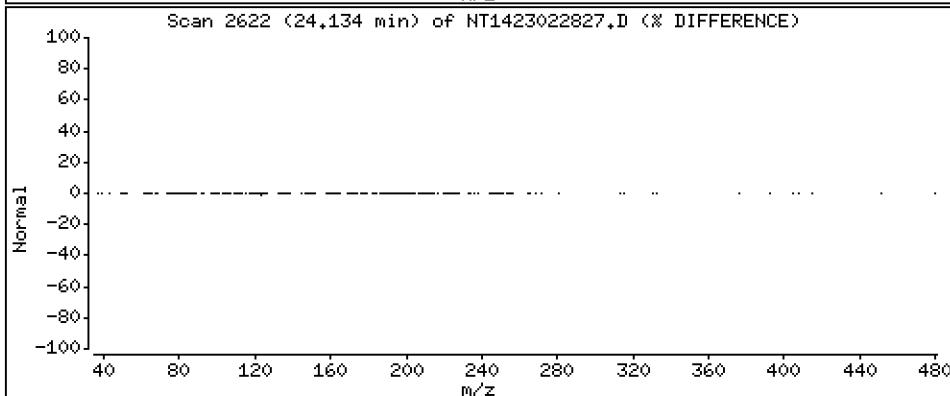
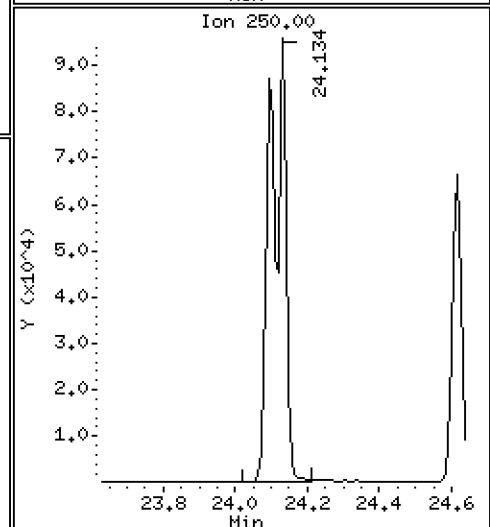
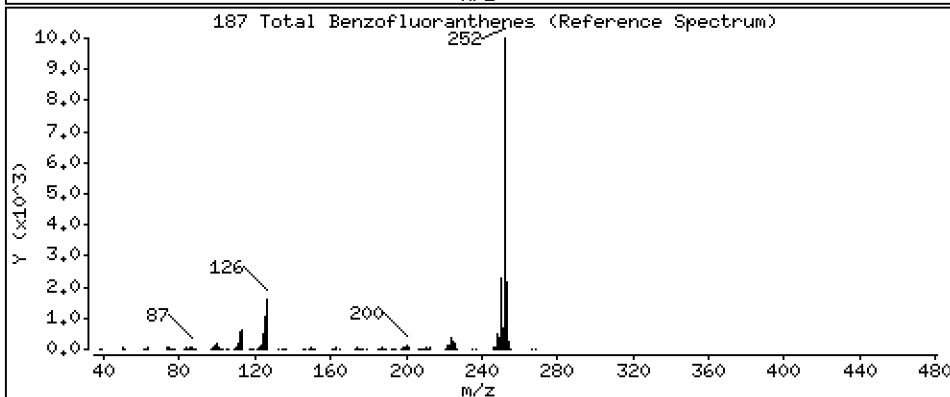
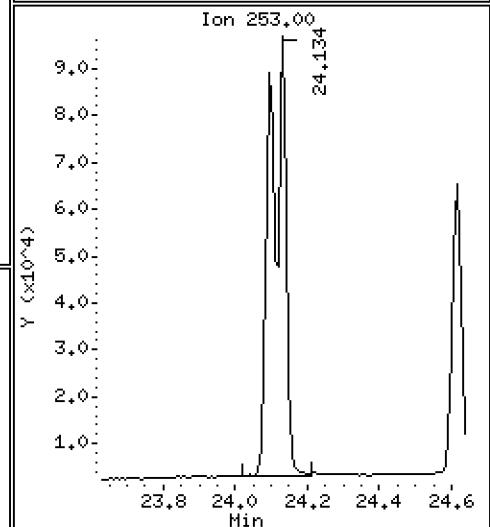
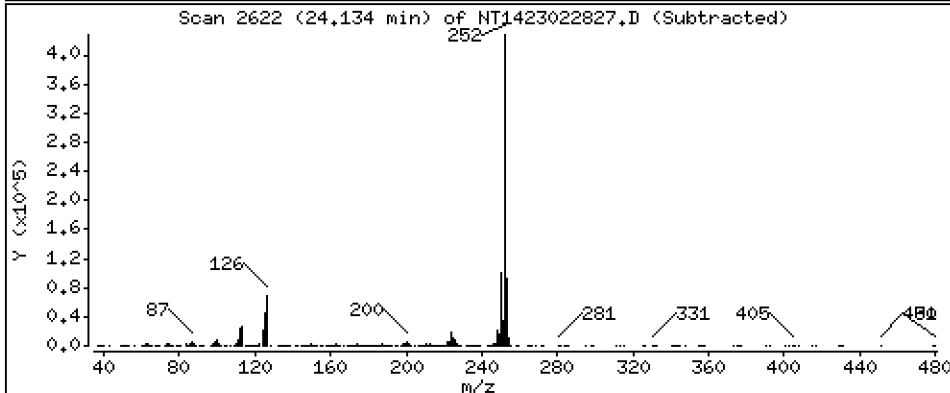
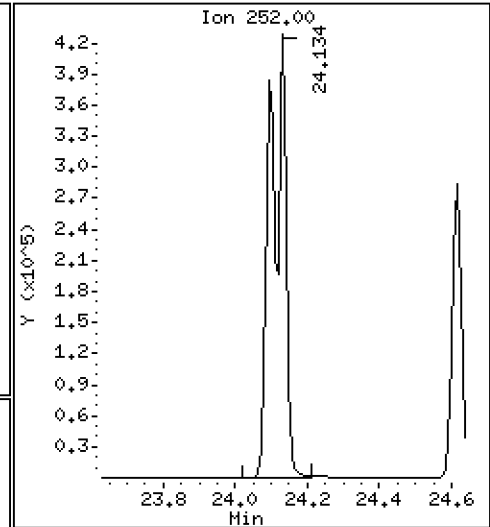
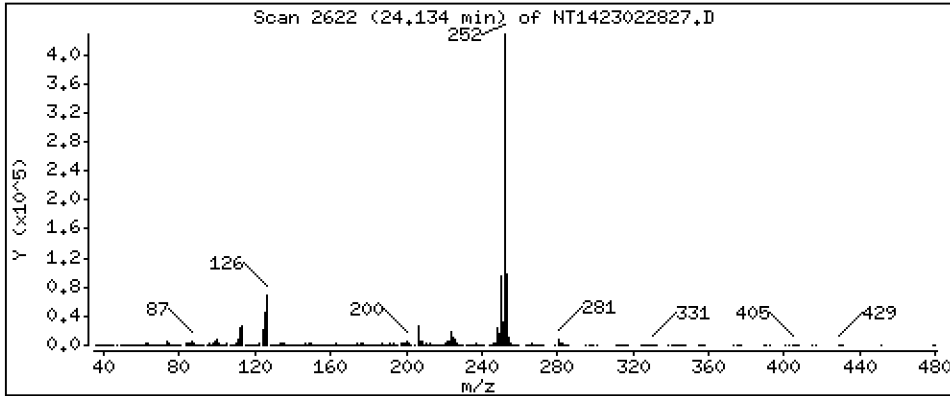
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,483 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

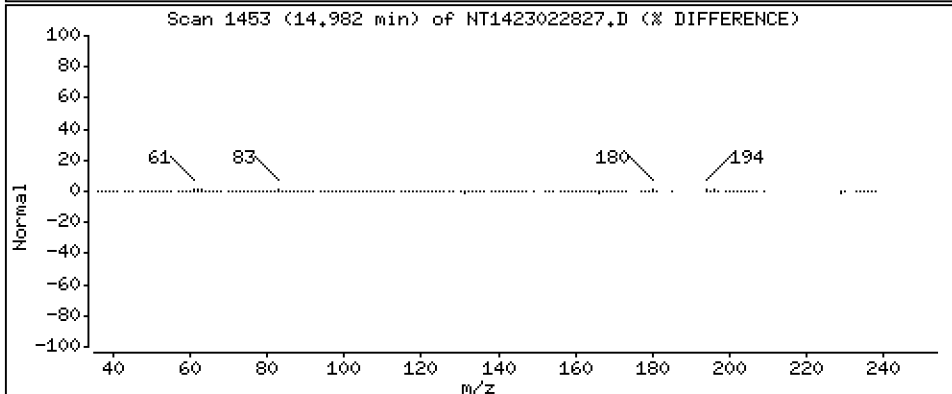
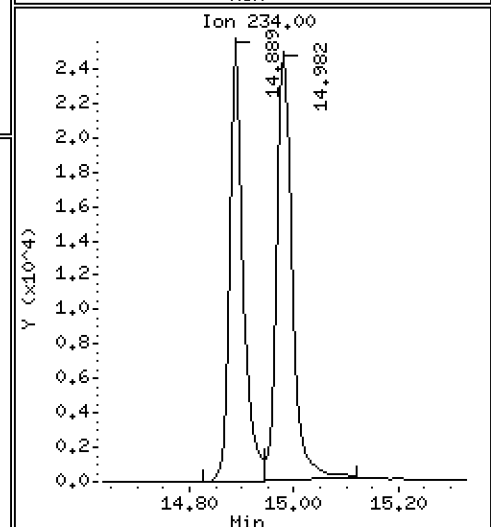
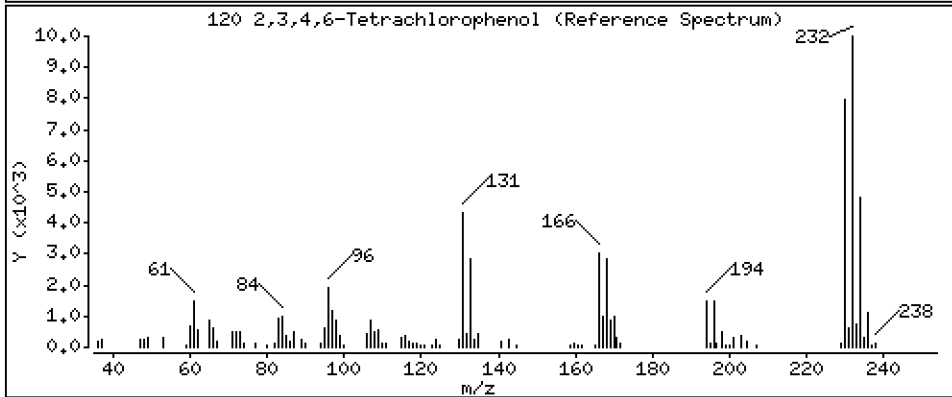
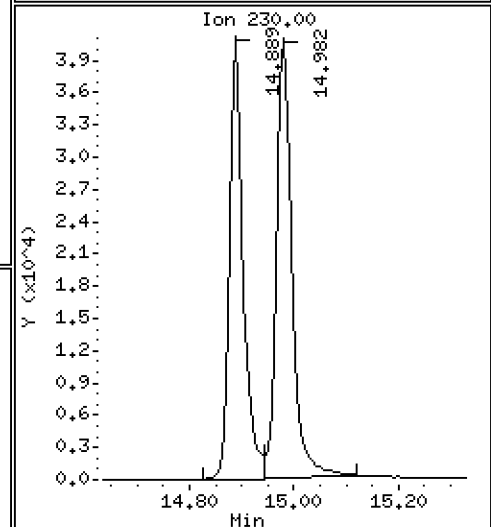
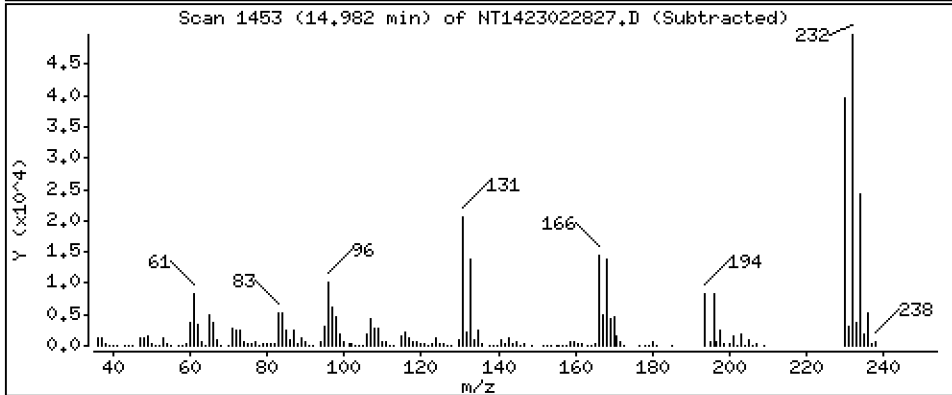
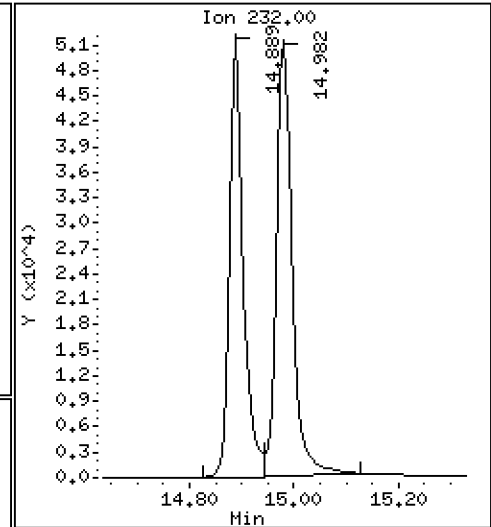
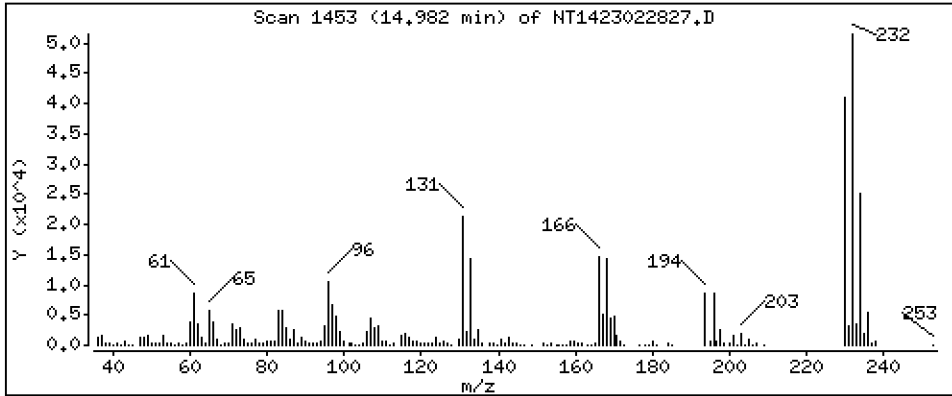
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,938 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022827.D  
 Lab Smp Id: BLA0557-BS1  
 Inj Date : 01-MAR-2023 17:16 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : BLA0557-BS1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 11-Mar-2023 09:11 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 19  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |         |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|---------|
|                                 |       |     |        |        |         |          | ON-COLUMN      | FINAL   |
|                                 | MASS  |     |        |        |         |          | (ug/mL)        | (ug/mL) |
| \$ 1 2-Fluorophenol             | 112   |     | 6.066  | 6.050  | (0.741) | 189650   | 6.06520        | 6.065   |
| \$ 2 Phenol-d5                  | 99    |     | 7.634  | 7.634  | (0.932) | 276260   | 6.22285        | 6.223   |
| 3 Phenol                        | 94    |     | 7.657  | 7.657  | (0.935) | 245338   | 4.63169        | 4.632   |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.843  | 7.850  | (0.957) | 211665   | 5.60721        | 5.607   |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.773  | 7.781  | (0.949) | 151435   | 4.17420        | 4.174   |
| 6 2-Chlorophenol                | 128   |     | 7.874  | 7.874  | (0.961) | 152304   | 3.90357        | 3.904   |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.129  | 8.129  | (0.992) | 152931   | 3.55670        | 3.557   |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.191  | 8.191  | (1.000) | 115317   | 4.00000        |         |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.222  | 8.222  | (1.004) | 151088   | 3.55534        | 3.555   |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.540  | 8.548  | (1.043) | 94821    | 3.33657        | 3.337   |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.571  | 8.571  | (1.046) | 148850   | 3.65288        | 3.653   |
| 11 Benzyl alcohol               | 108   |     | 8.501  | 8.501  | (1.038) | 86491    | 3.70472        | 3.705   |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.789  | 8.789  | (1.073) | 47545    | 4.32648        | 4.326   |
| 13 2-Methylphenol               | 108   |     | 8.742  | 8.742  | (1.067) | 118023   | 3.52697        | 3.527   |
| 17 Hexachloroethane             | 117   |     | 9.146  | 9.146  | (1.117) | 58477    | 3.66418        | 3.664   |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.045  | 9.053  | (1.104) | 111446   | 4.37411        | 4.374   |
| 15 4-Methylphenol               | 108   |     | 9.022  | 9.014  | (1.101) | 141360   | 3.68148        | 3.681   |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.285  | 9.285  | (0.872) | 168372   | 4.18035        | 4.180   |
| 19 Nitrobenzene                 | 77    |     | 9.317  | 9.316  | (0.875) | 194876   | 5.03501        | 5.035   |
| 20 Isophorone                   | 82    |     | 9.774  | 9.774  | (0.918) | 319966   | 5.38592        | 5.386   |
| 21 2-Nitrophenol                | 139   |     | 9.945  | 9.945  | (0.934) | 85616    | 4.25038        | 4.250   |
| 22 2,4-Dimethylphenol           | 107   |     | 10.038 | 10.038 | (0.943) | 378417   | 10.7247        | 10.72   |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.224 | 10.224 | (0.960) | 187104   | 4.80841        | 4.808   |
| 24 Benzoic acid                 | 105   |     | 10.379 | 10.364 | (0.975) | 497125   | 35.5525        | 35.55   |
| 25 2,4-Dichlorophenol           | 162   |     | 10.402 | 10.402 | (0.977) | 336941   | 9.87998        | 9.880   |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.572 | 10.572 | (0.993) | 141367   | 3.54507        | 3.545   |
| * 27 Naphthalene-d8             | 136   |     | 10.649 | 10.649 | (1.000) | 411740   | 4.00000        |         |
| 28 Naphthalene                  | 128   |     | 10.688 | 10.688 | (1.004) | 430394   | 3.91883        | 3.919   |
| 29 4-Chloroaniline              | 127   |     | 10.850 | 10.850 | (1.019) | 91802    | 1.95427        | 1.954   |
| 30 Hexachlorobutadiene          | 225   |     | 11.059 | 11.066 | (1.038) | 97786    | 4.01866        | 4.019   |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.840 | 11.840 | (1.112) | 523980   | 16.4979        | 16.50   |
| 32 2-Methylnaphthalene          | 142   |     | 12.073 | 12.080 | (1.134) | 311620   | 3.83151        | 3.832   |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.545 | 12.545 | (0.881) | 191153   | 7.33098        | 7.331   |

| Compounds                         | QUANT SIG |                        |        |         |          | CONCENTRATIONS       |                  |
|-----------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|
|                                   | MASS      | RT                     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 12.715                 | 12.715 | (0.893) | 379951   | 15.7436              | 15.74            |
| 35 2,4,5-Trichlorophenol          | 196       | 12.792                 | 12.792 | (0.899) | 417901   | 16.0154              | 16.02            |
| § 36 2-Fluorobiphenyl             | 172       | 12.870                 | 12.877 | (0.904) | 376028   | 3.91050              | 3.910            |
| 37 2-Chloronaphthalene            | 162       | 13.055                 | 13.063 | (0.917) | 318078   | 4.12639              | 4.126            |
| 38 2-Nitroaniline                 | 65        | 13.349                 | 13.349 | (0.938) | 350110   | 17.4149              | 17.41            |
| 39 Dimethylphthalate              | 163       | 13.798                 | 13.798 | (0.970) | 393324   | 5.06147              | 5.061            |
| 40 Acenaphthylene                 | 152       | 13.914                 | 13.922 | (0.978) | 461023   | 4.07592              | 4.076            |
| 41 2,6-Dinitrotoluene             | 165       | 13.922                 | 13.922 | (0.978) | 295034   | 16.2017              | 16.20            |
| * 42 Acenaphthene-d10             | 164       | 14.232                 | 14.232 | (1.000) | 247058   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138       | 14.201                 | 14.201 | (0.998) | 179167   | 9.59957              | 9.600            |
| 44 Acenaphthene                   | 153       | 14.294                 | 14.301 | (1.004) | 296037   | 4.08787              | 4.088            |
| 45 2,4-Dinitrophenol              | 184       | 14.417                 | 14.417 | (1.013) | 339057   | 27.5839              | 27.58            |
| 46 Dibenzofuran                   | 168       | 14.626                 | 14.626 | (1.028) | 469501   | 4.07450              | 4.074            |
| 47 4-Nitrophenol                  | 109       | 14.580                 | 14.579 | (1.024) | 150125   | 15.5172              | 15.52            |
| 48 2,4-Dinitrotoluene             | 165       | 14.726                 | 14.726 | (1.035) | 413801   | 15.7846              | 15.78            |
| 50 Diethylphthalate               | 149       | 15.252                 | 15.252 | (1.072) | 409352   | 5.63313              | 5.633            |
| 49 Fluorene                       | 166       | 15.330                 | 15.330 | (1.077) | 402484   | 4.14557              | 4.146            |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.345                 | 15.345 | (1.078) | 218075   | 4.22153              | 4.222            |
| 52 4-Nitroaniline                 | 138       | 15.469                 | 15.469 | (1.087) | 236421   | 12.7787              | 12.78            |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.553                 | 15.553 | (0.902) | 469520   | 30.4632              | 30.46            |
| 54 N-Nitrosodiphenylamine         | 169       | 15.600                 | 15.607 | (0.905) | 161163   | 2.81299              | 2.813            |
| § 55 2,4,6-Tribromophenol         | 330       | 15.870                 | 15.870 | (1.115) | 94262    | 6.89730              | 6.897            |
| 56 4-Bromophenyl-phenylether      | 248       | 16.332                 | 16.340 | (0.947) | 123244   | 4.89297              | 4.893            |
| 57 Hexachlorobenzene              | 284       | 16.626                 | 16.626 | (0.965) | 124190   | 4.48450              | 4.485            |
| 58 Pentachlorophenol              | 266       | 16.997                 | 17.005 | (0.986) | 245562   | 17.2963              | 17.30            |
| * 59 Phenanthrene-d10             | 188       | 17.237                 | 17.237 | (1.000) | 455912   | 4.00000              |                  |
| 60 Phenanthrene                   | 178       | 17.284                 | 17.291 | (1.003) | 540940   | 4.46016              | 4.460            |
| 61 Anthracene                     | 178       | 17.377                 | 17.384 | (1.008) | 438118   | 3.82112              | 3.821            |
| 62 Carbazole                      | 167       | 17.725                 | 17.732 | (1.028) | 433885   | 4.31770              | 4.318            |
| 63 Di-n-butylphthalate            | 149       | 18.584                 | 18.583 | (1.078) | 706626   | 5.55720              | 5.557            |
| 64 Fluoranthene                   | 202       | 19.705                 | 19.705 | (0.881) | 645907   | 4.89251              | 4.893            |
| 65 Pyrene                         | 202       | 20.131                 | 20.139 | (0.900) | 638771   | 4.58916              | 4.589            |
| § 66 Terphenyl-d14                | 244       | 20.464                 | 20.471 | (0.915) | 503027   | 4.69376              | 4.694            |
| 67 Butylbenzylphthalate           | 149       | 21.432                 | 21.439 | (0.958) | 272586   | 5.65623              | 5.656            |
| 68 Benzo(a)anthracene             | 228       | 22.330                 | 22.330 | (0.999) | 541989   | 4.64980              | 4.650            |
| * 69 Chrysene-d12                 | 240       | 22.361                 | 22.361 | (1.000) | 347971   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.322                 | 22.322 | (0.998) | 43124    | 1.29550              | 1.296            |
| 71 Chrysene                       | 228       | 22.407                 | 22.407 | (1.002) | 510421   | 4.55577              | 4.556            |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.492                 | 22.492 | (0.958) | 384373   | 4.86372              | 4.864            |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.468                 | 23.468 | (1.000) | 520496   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149       | 23.476                 | 23.483 | (1.000) | 663867   | 4.84418              | 4.844            |
| 74 Benzo(b)fluoranthene           | 252       | 24.095                 | 24.103 | (0.975) | 712618   | 5.21751              | 5.218            |
| 75 Benzo(k)fluoranthene           | 252       | 24.134                 | 24.134 | (0.977) | 646352   | 4.38654              | 4.387            |
| 76 Benzo(a)pyrene                 | 252       | 24.614                 | 24.621 | (0.996) | 498443   | 4.25371              | 4.254            |
| * 77 Perylene-d12                 | 264       | 24.707                 | 24.707 | (1.000) | 413395   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.777                 | 26.784 | (1.084) | 415074   | 2.81398              | 2.814            |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.792                 | 26.792 | (1.084) | 388302   | 3.09947              | 3.099            |
| 80 Benzo(g,h,i)perylene           | 276       | 27.375                 | 27.375 | (1.108) | 267377   | 2.07833              | 2.078            |
| 90 N-Nitrosodimethylamine         | 74        | 4.019                  | 3.988  | (0.491) | 219913   | 10.0766              | 10.08            |
| 91 Aniline                        | 93        | 7.681                  | 7.681  | (0.938) | 69451    | 1.27641              | 1.276            |
| 93 Benzidine                      | 184       | Compound Not Detected. |        |         |          |                      |                  |
| 103 Pyridine                      | 79        | Compound Not Detected. |        |         |          |                      |                  |
| 105 1-methylnaphthalene           | 142       | 12.297                 | 12.297 | (1.155) | 298883   | 3.99171              | 3.992            |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.669                 | 15.669 | (1.101) | 390376   | 4.67934              | 4.679            |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 24.134 | 24.134 | (0.977) | 1267017  | 9.48317              | 9.483            |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 14.982 | 14.981 | (1.053) | 111645   | 3.93821              | 3.938            |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023  
 Lab File ID: NT1423022827.D Calibration Time: 13:39  
 Lab Smp Id: BLA0557-BS1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 125853   | 62927      | 251706  | 115317 | -8.37  |
| 27 Naphthalene-d8     | 454961   | 227481     | 909922  | 411740 | -9.50  |
| 42 Acenaphthene-d10   | 273779   | 136890     | 547558  | 247058 | -9.76  |
| 59 Phenanthrene-d10   | 520384   | 260192     | 1040768 | 455912 | -12.39 |
| 69 Chrysene-d12       | 399183   | 199592     | 798366  | 347971 | -12.83 |
| 134 Di-n-octylphthala | 602810   | 301405     | 1205620 | 520496 | -13.66 |
| 77 Perylene-d12       | 478887   | 239444     | 957774  | 413395 | -13.68 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.19     | 7.69     | 8.69  | 8.19   | 0.00  |
| 27 Naphthalene-d8     | 10.65    | 10.15    | 11.15 | 10.65  | 0.00  |
| 42 Acenaphthene-d10   | 14.23    | 13.73    | 14.73 | 14.23  | 0.00  |
| 59 Phenanthrene-d10   | 17.24    | 16.74    | 17.74 | 17.24  | 0.00  |
| 69 Chrysene-d12       | 22.36    | 21.86    | 22.86 | 22.36  | 0.00  |
| 134 Di-n-octylphthala | 23.47    | 22.97    | 23.97 | 23.47  | 0.00  |
| 77 Perylene-d12       | 24.71    | 24.21    | 25.21 | 24.71  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022827.D

Lab ID: BLA0557-BS1  
nt14.i, ABN.m, 01-MAR-2023 17:16

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

---

NONE

RRT check based on Ccal File: NT1423022821.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*



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Date: 01-MAR-2023 17:52

Client ID:

Sample Info: BLR0557-BSM1

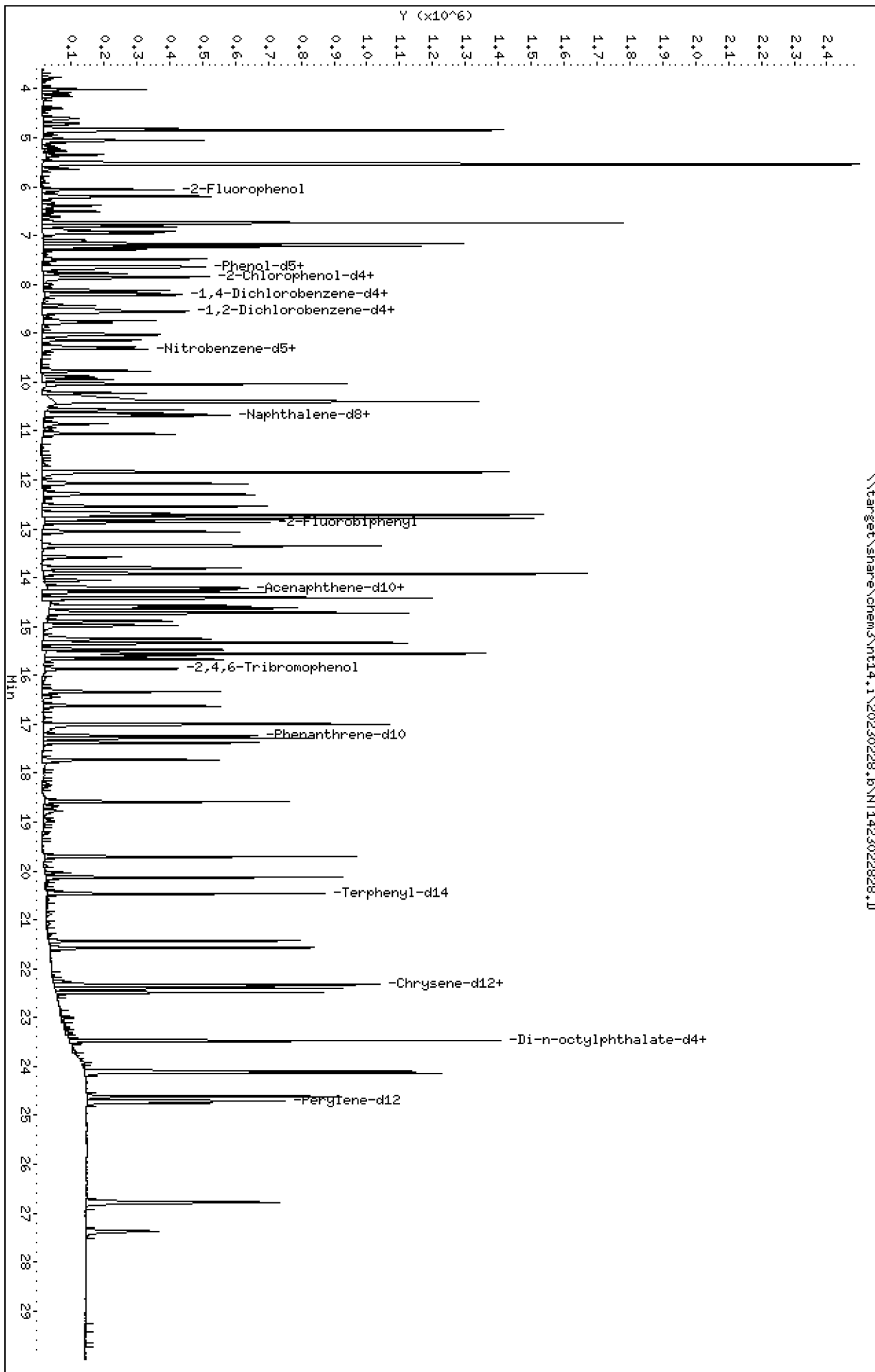
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

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Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

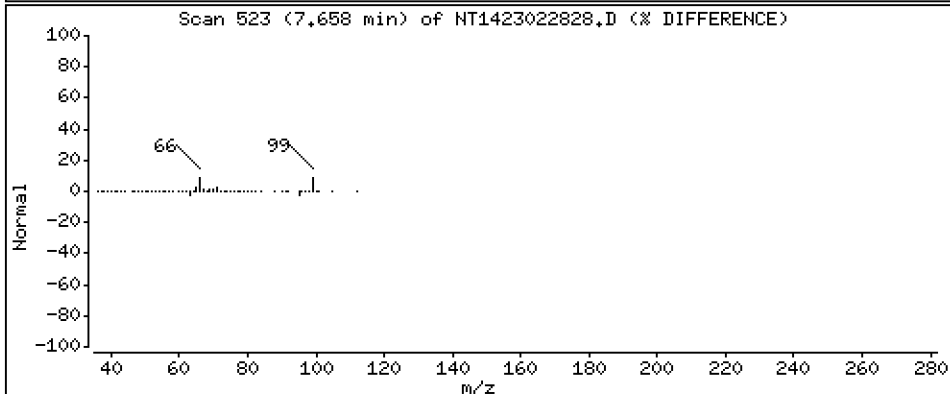
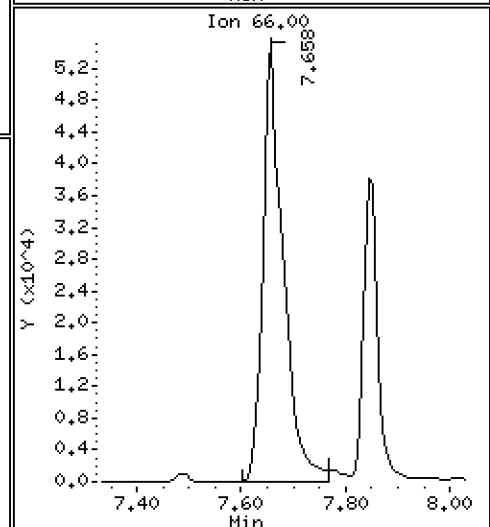
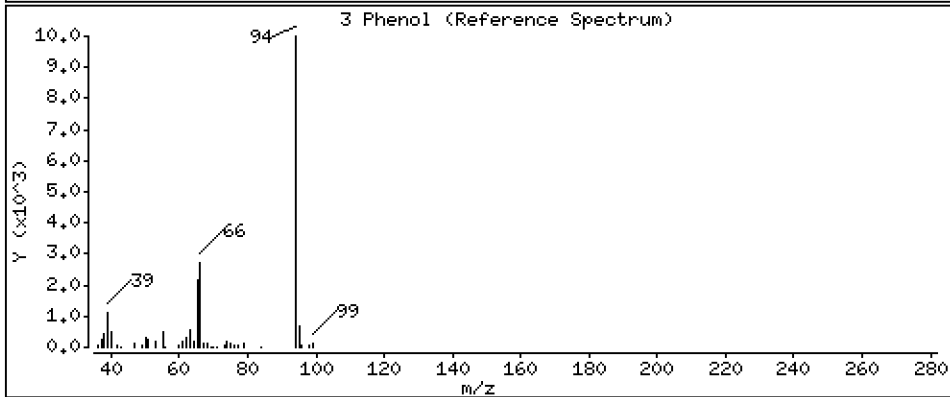
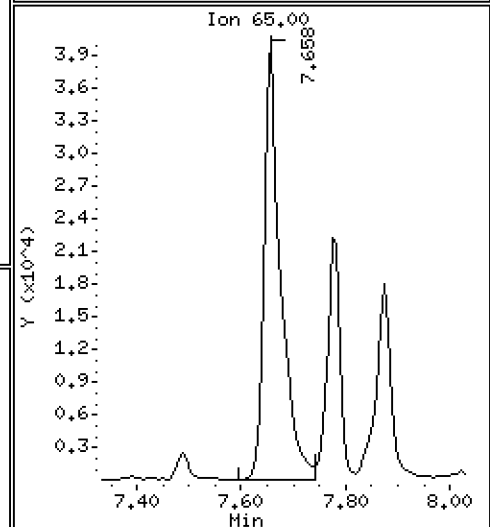
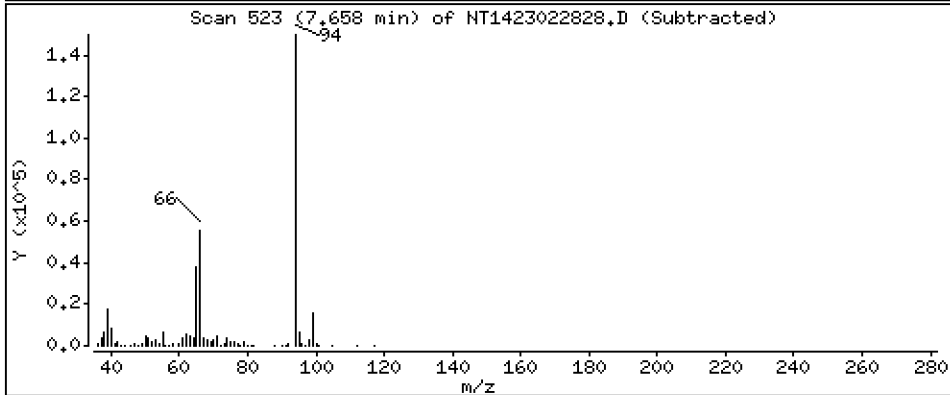
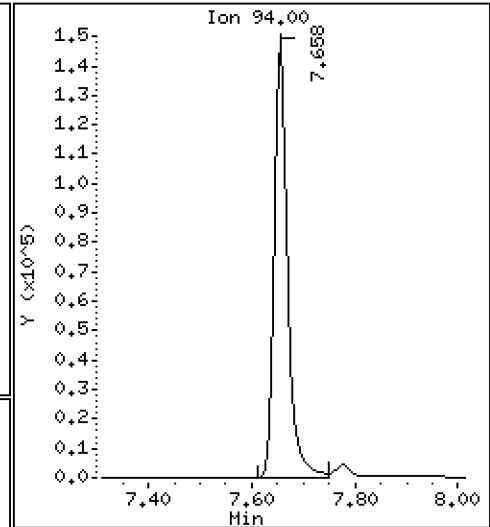
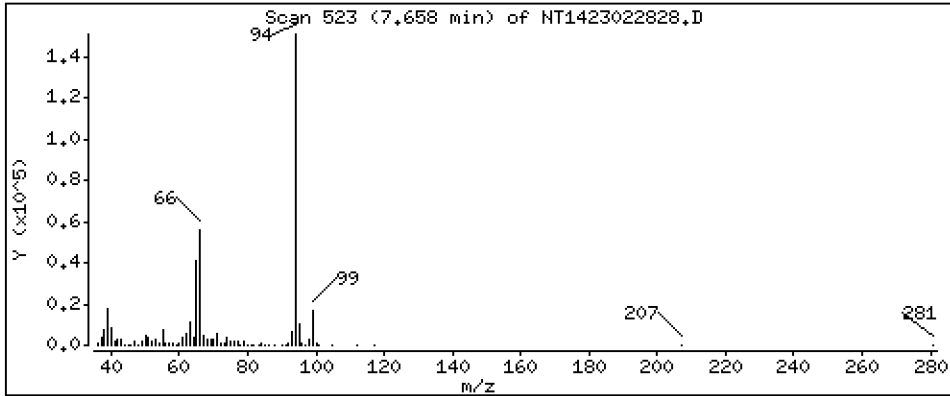
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 4,804 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

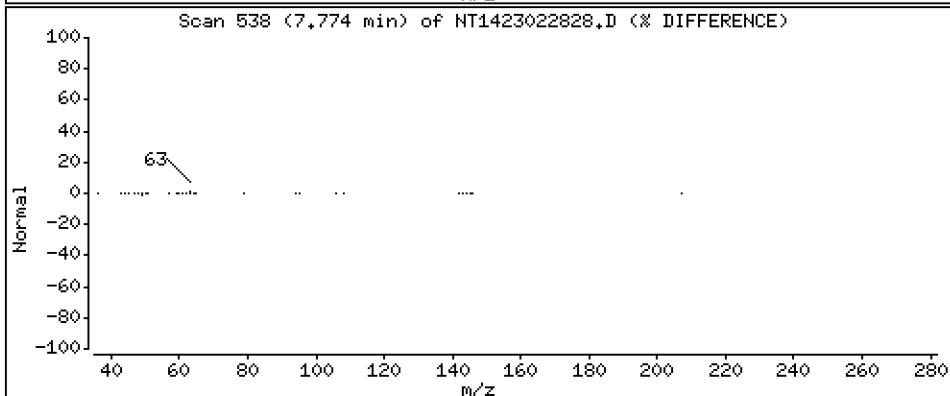
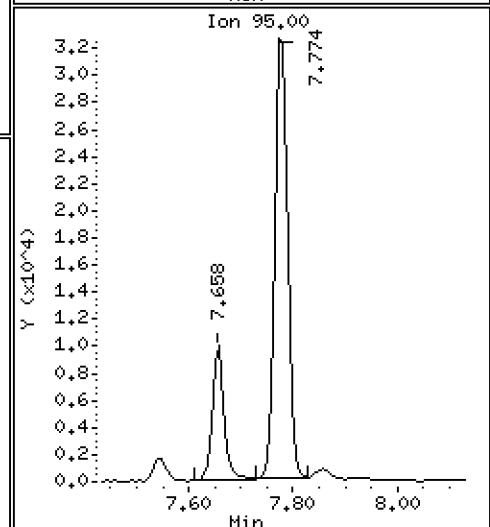
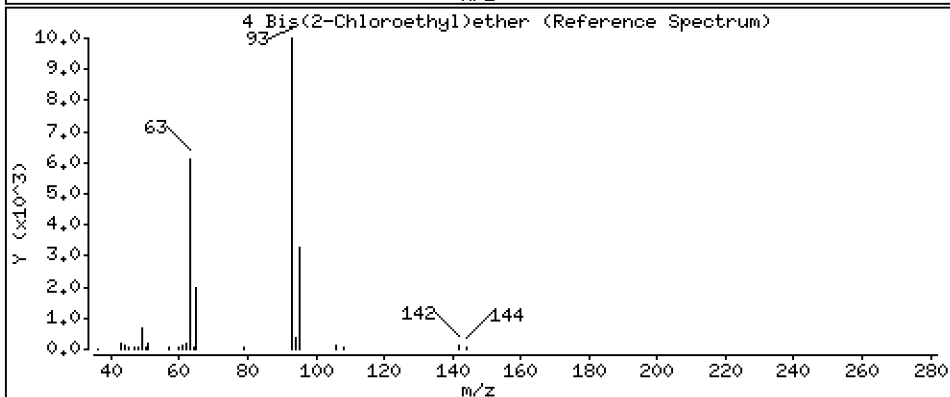
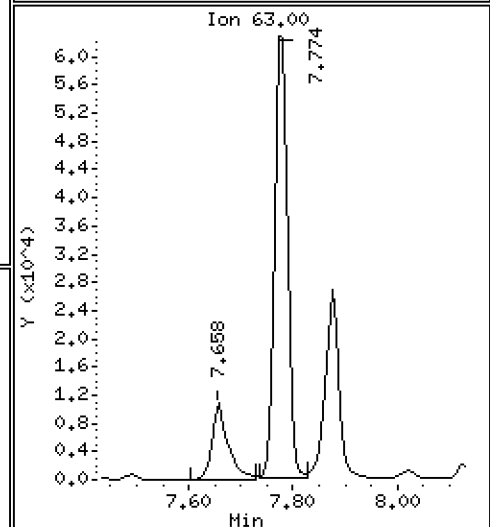
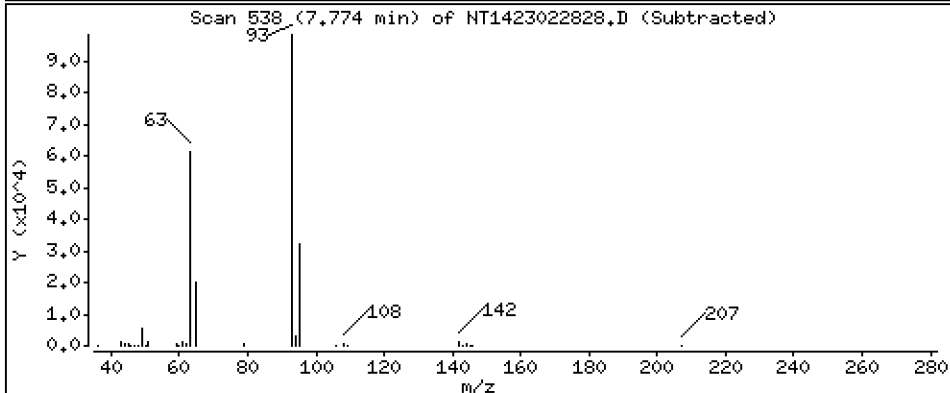
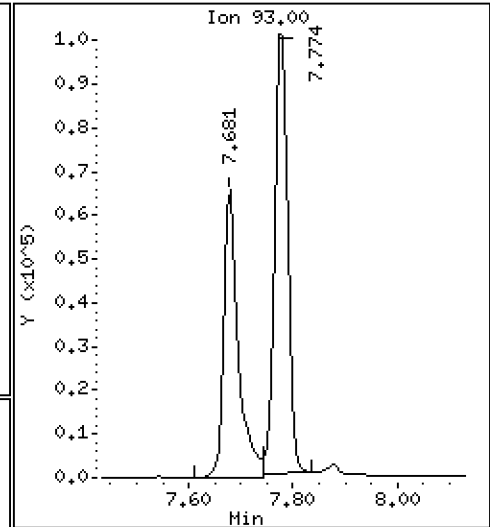
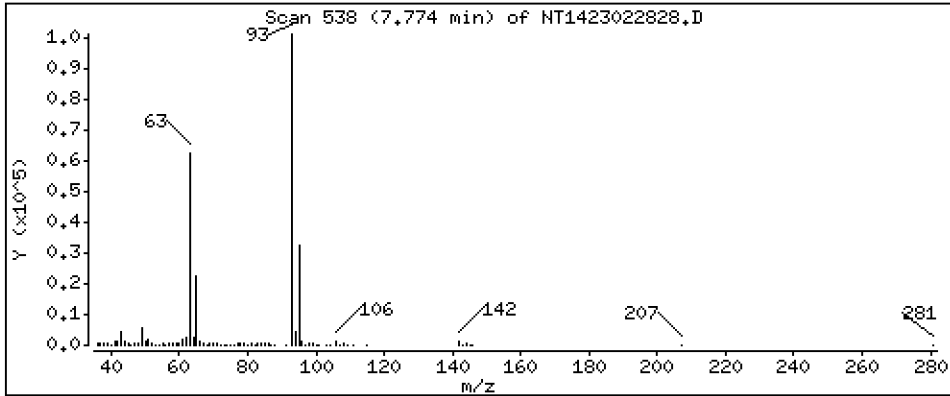
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,746 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

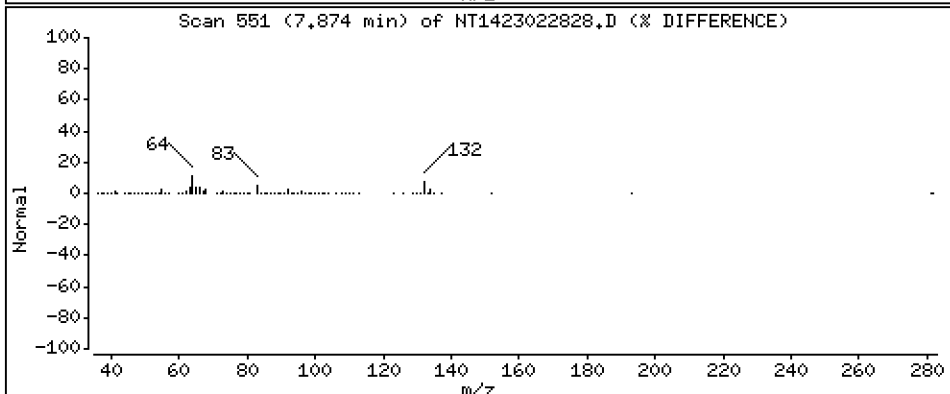
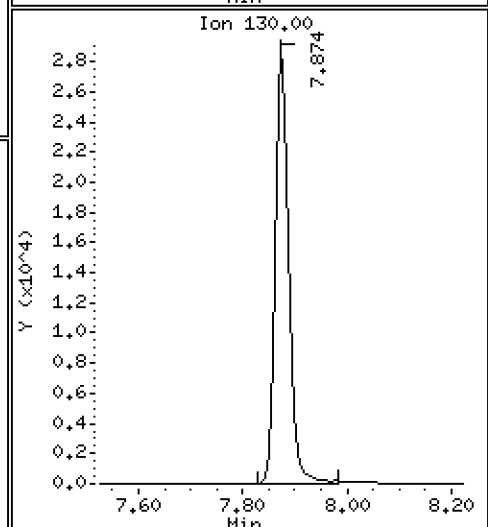
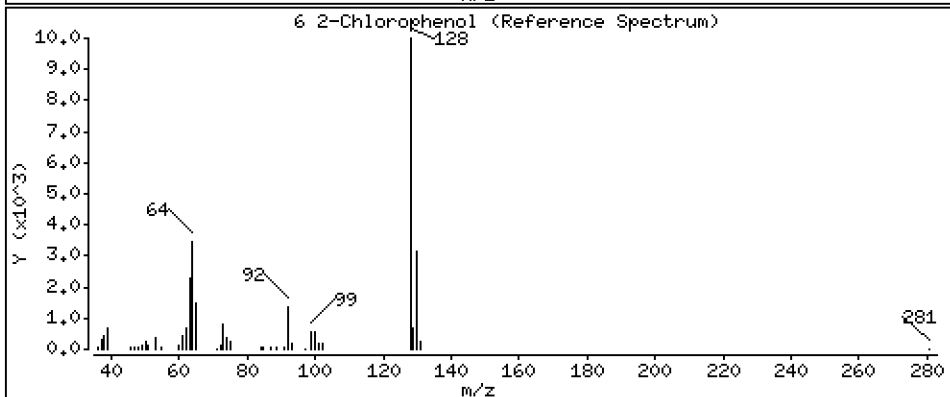
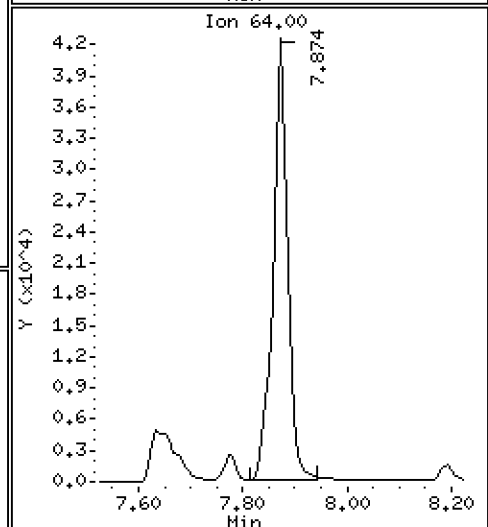
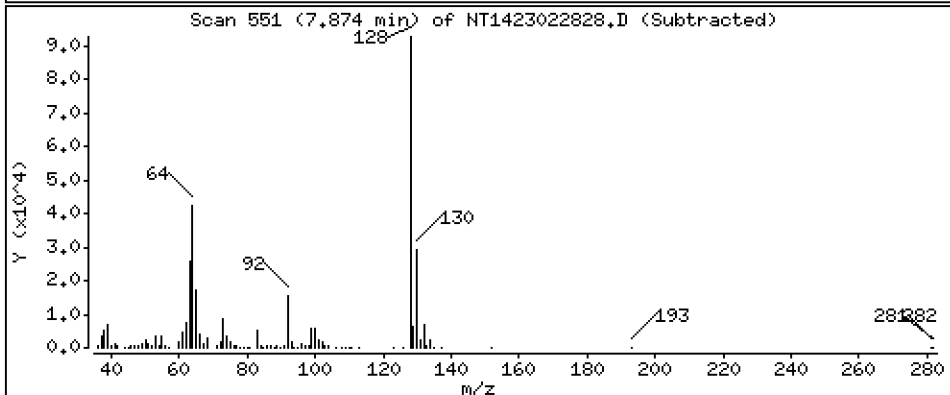
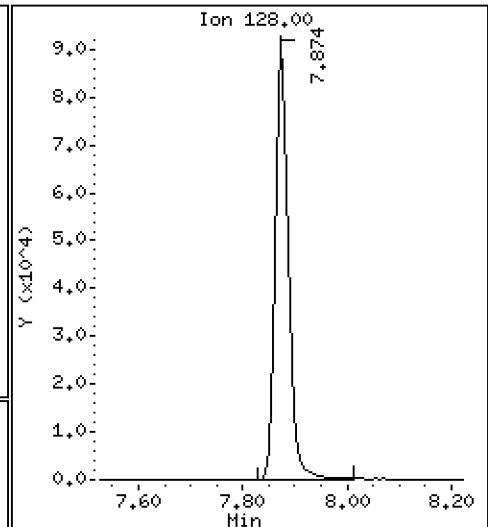
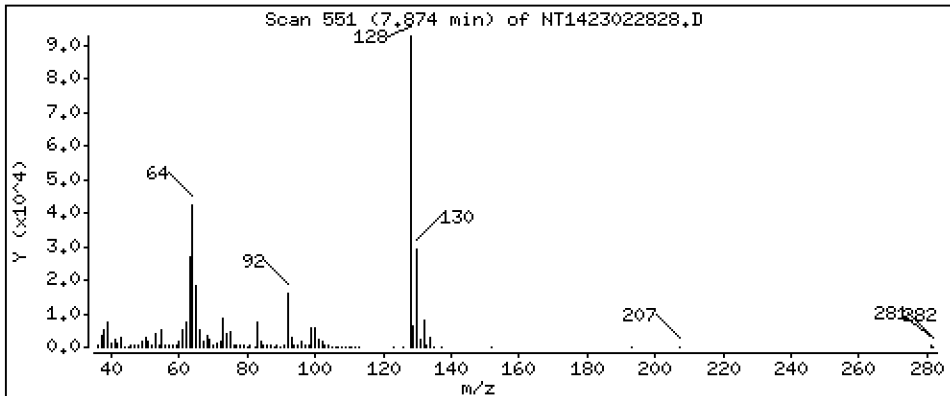
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,426 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

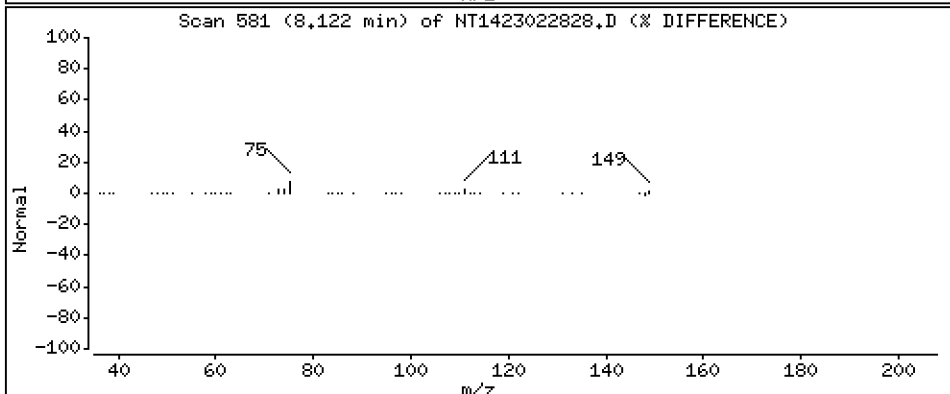
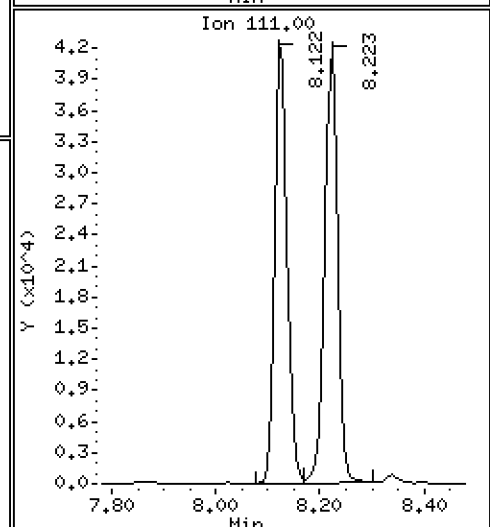
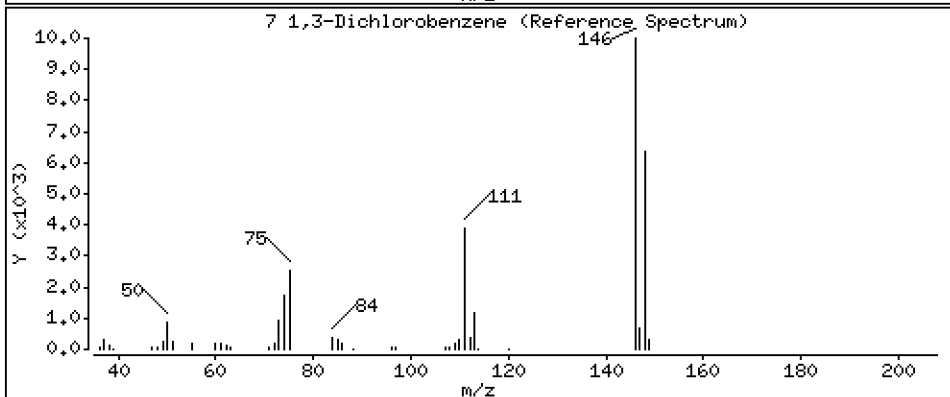
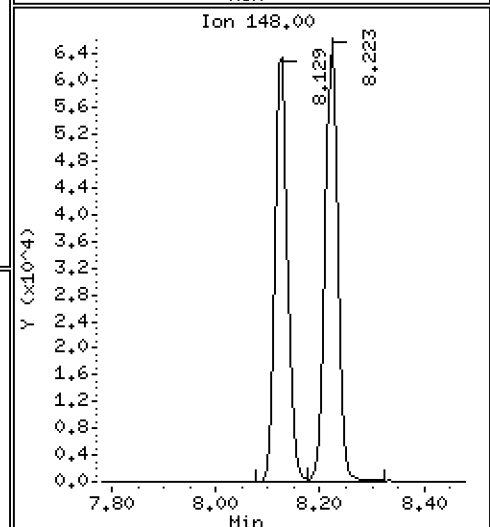
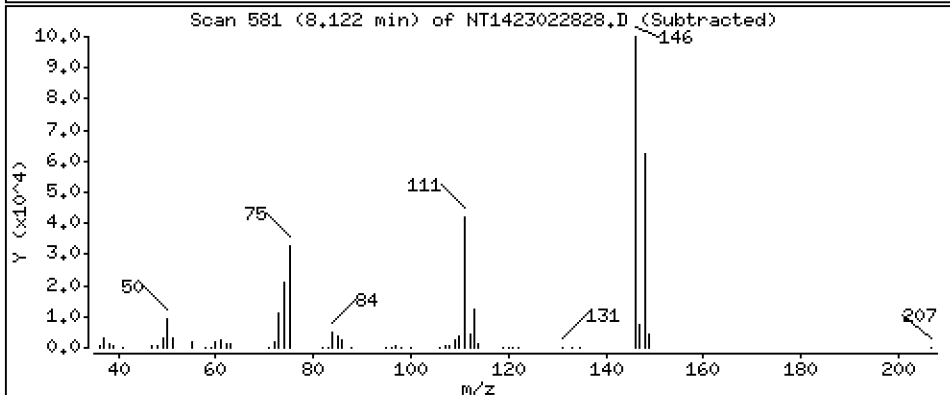
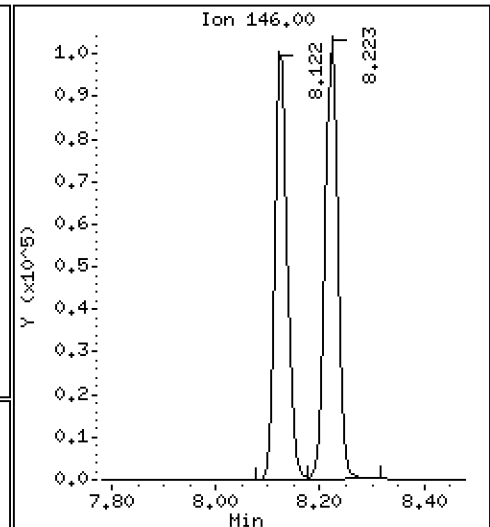
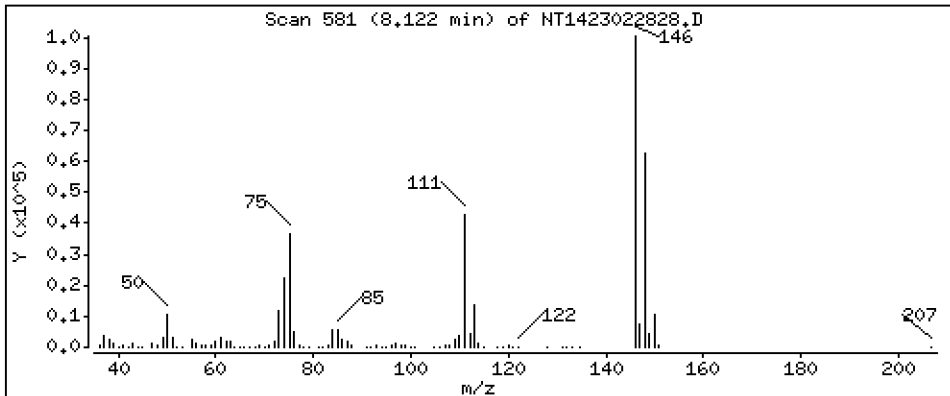
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 3,958 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

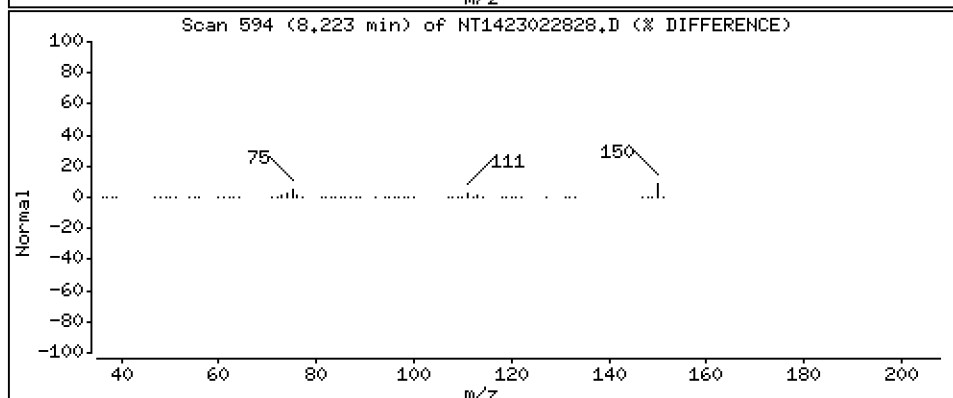
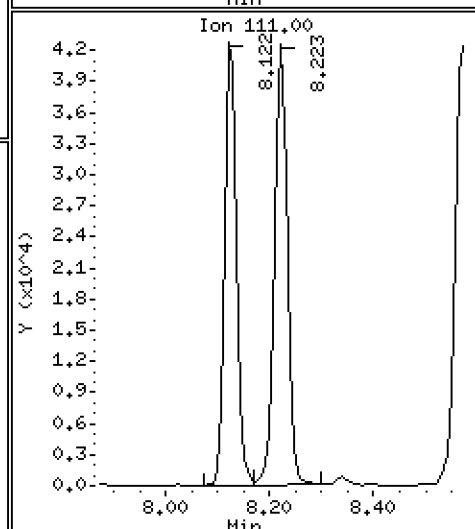
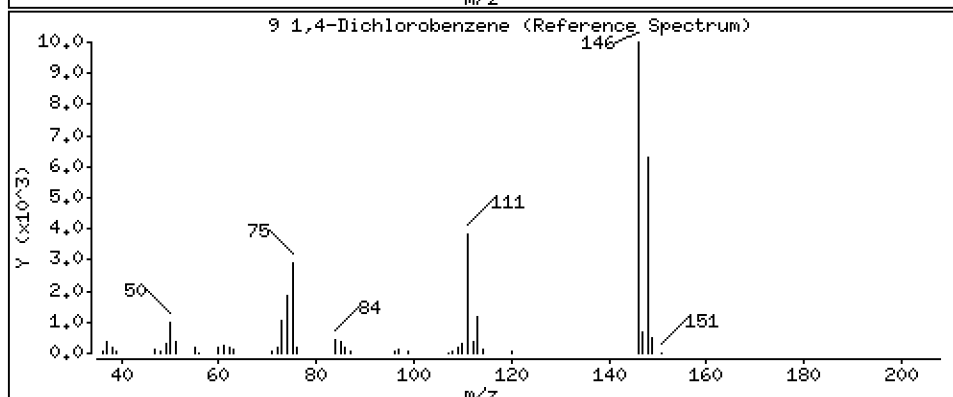
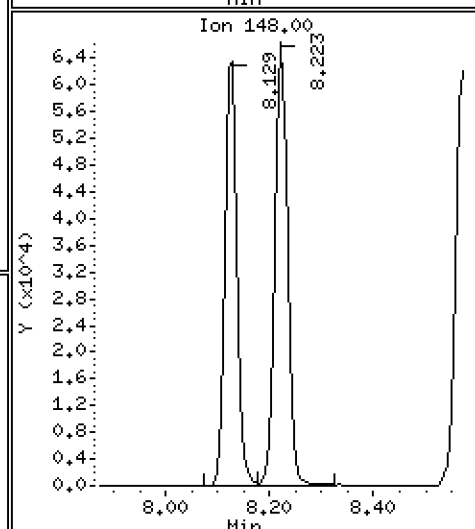
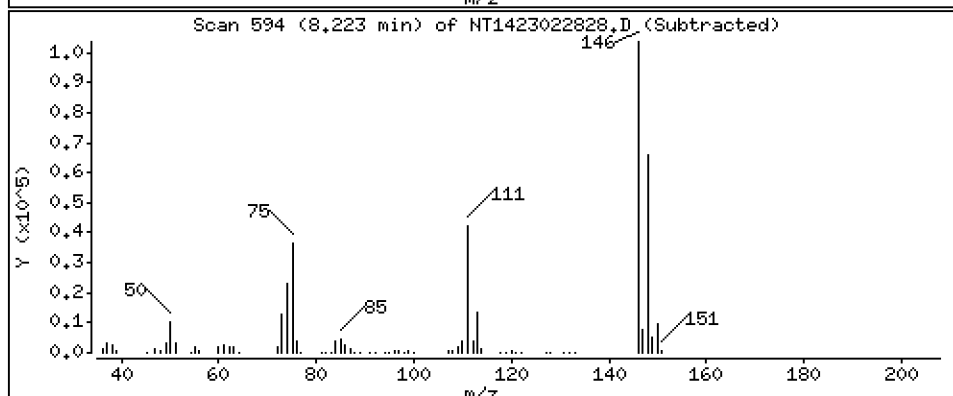
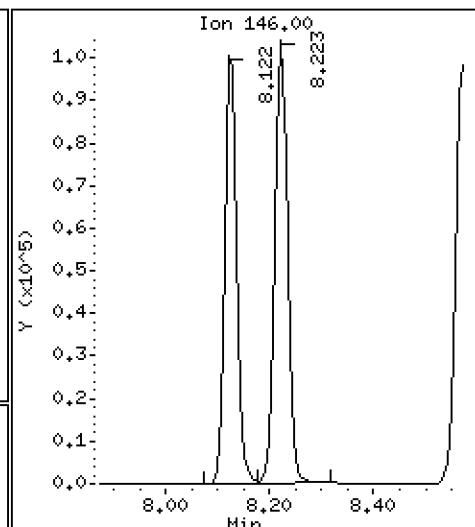
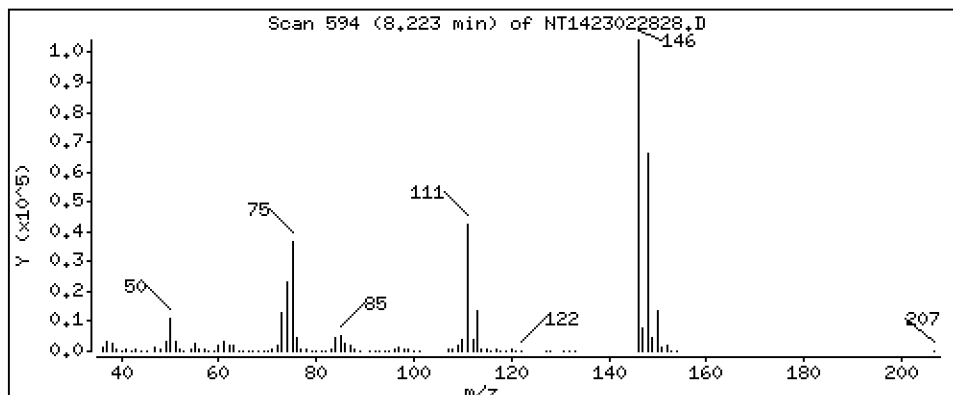
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 3,987 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

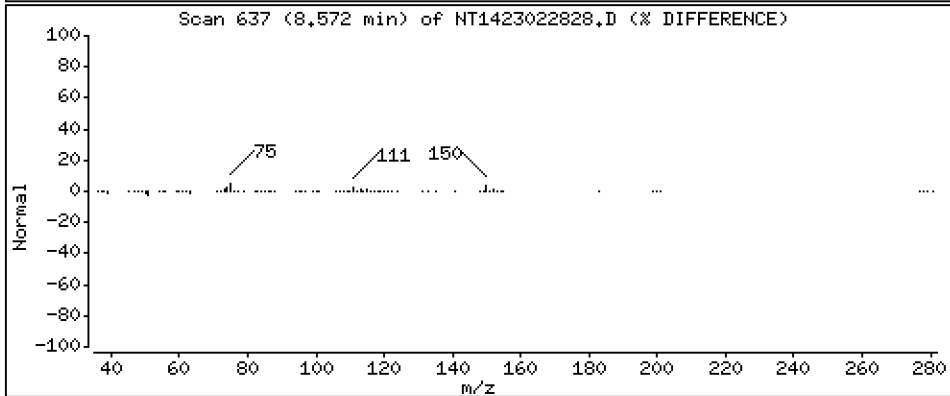
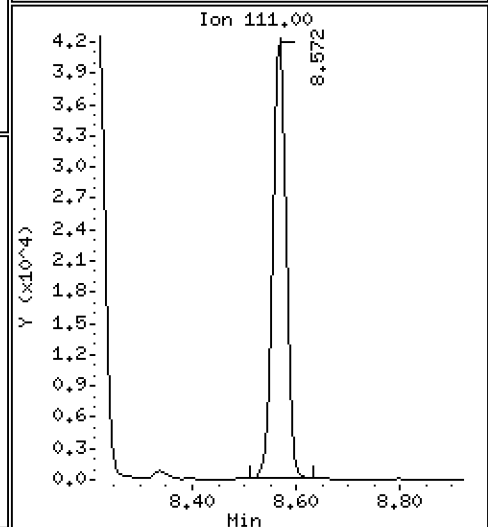
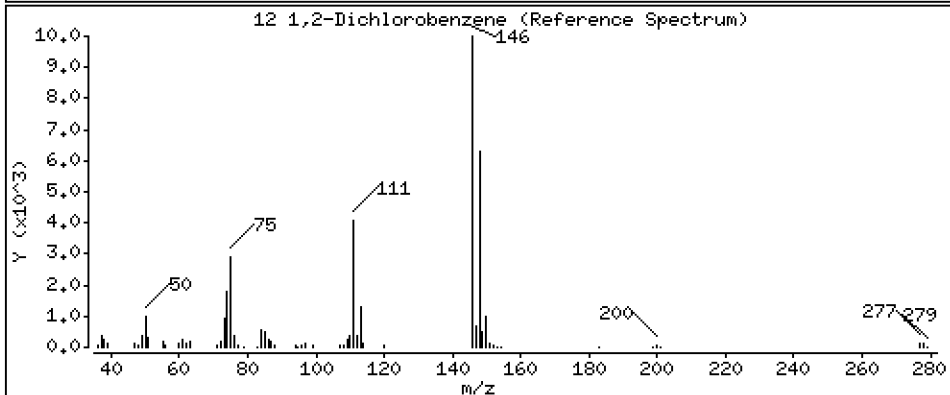
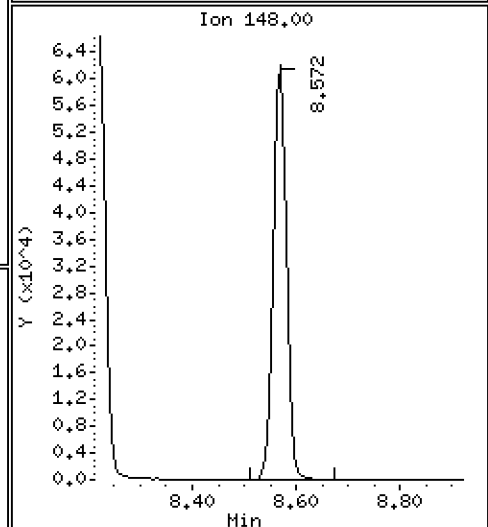
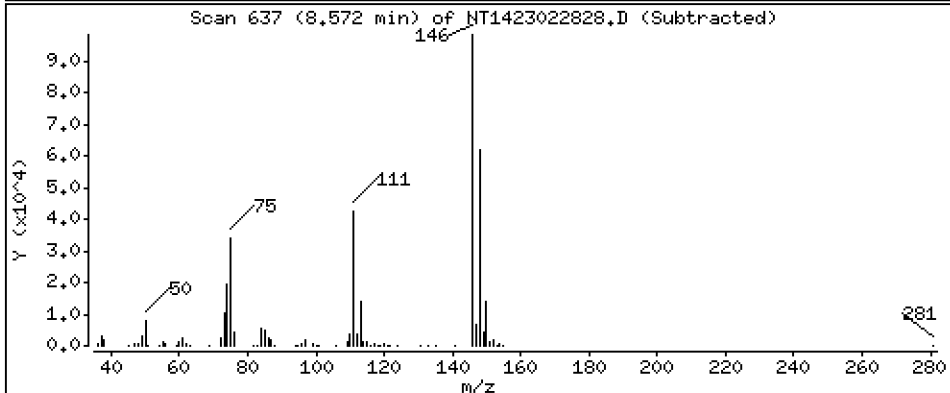
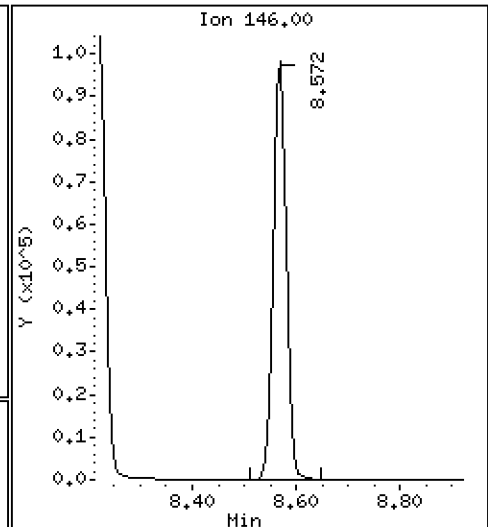
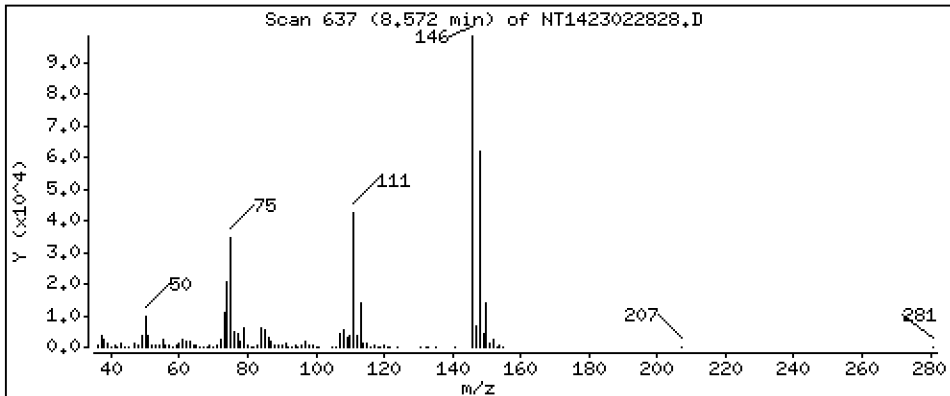
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,079 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

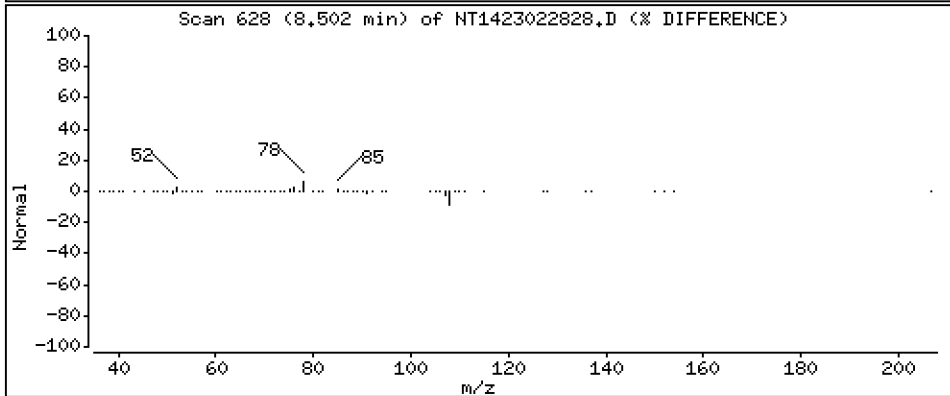
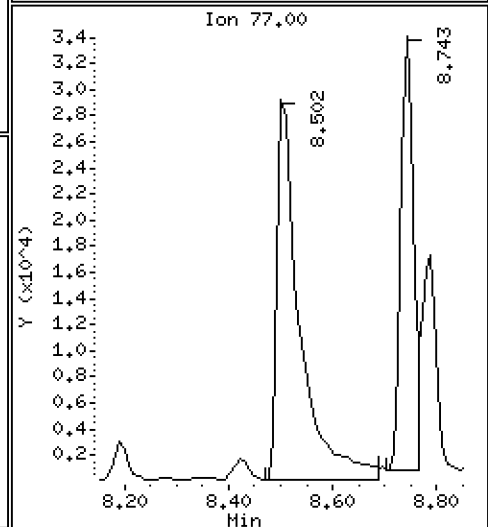
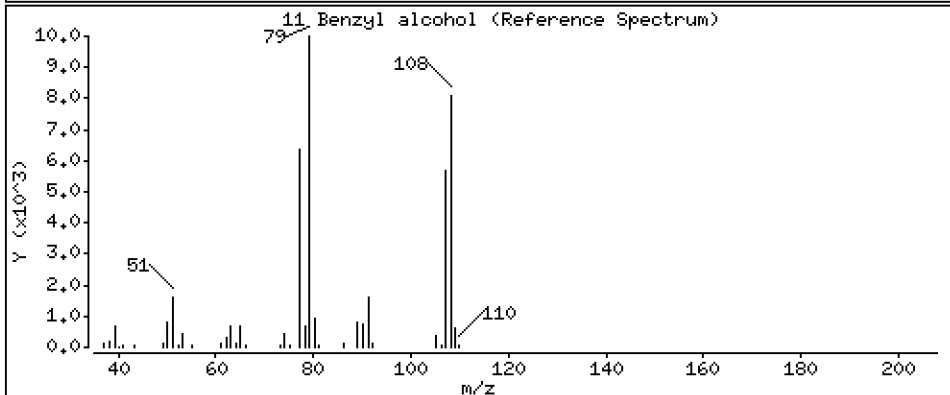
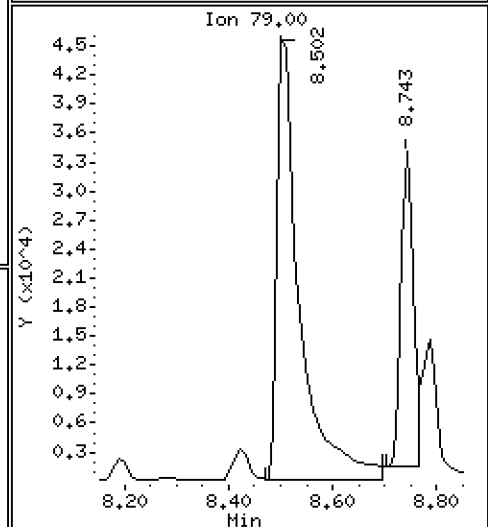
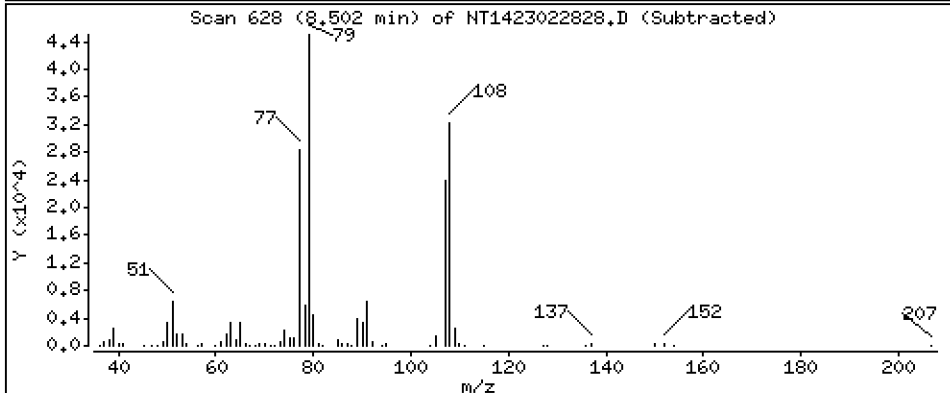
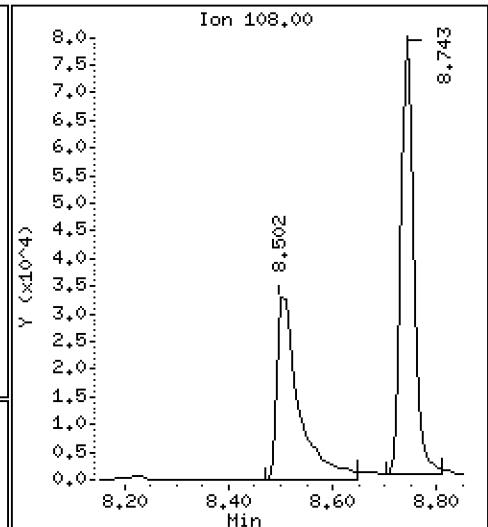
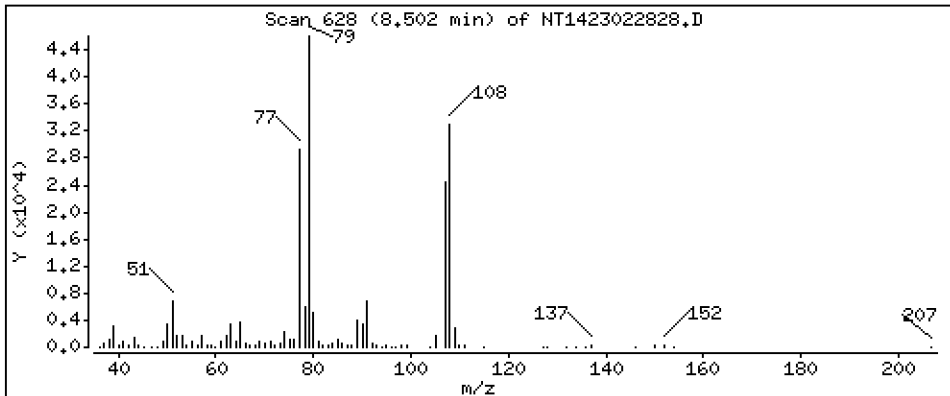
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 4,152 ug/mL





Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

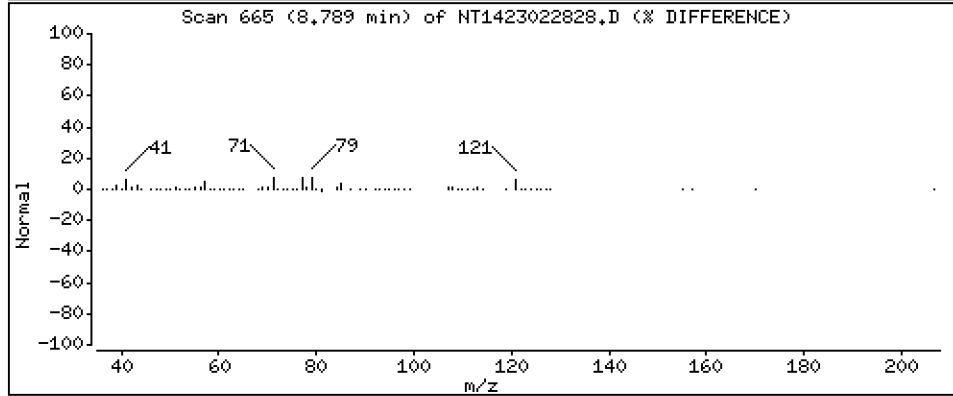
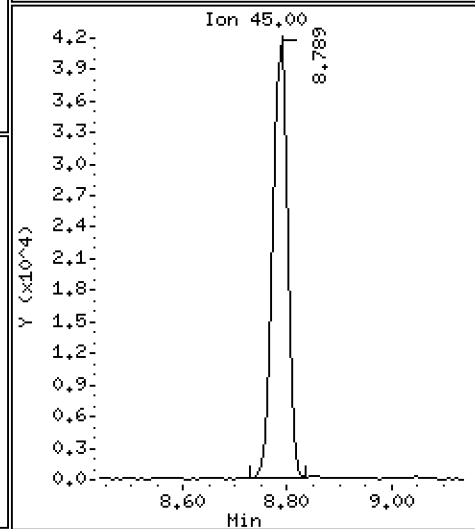
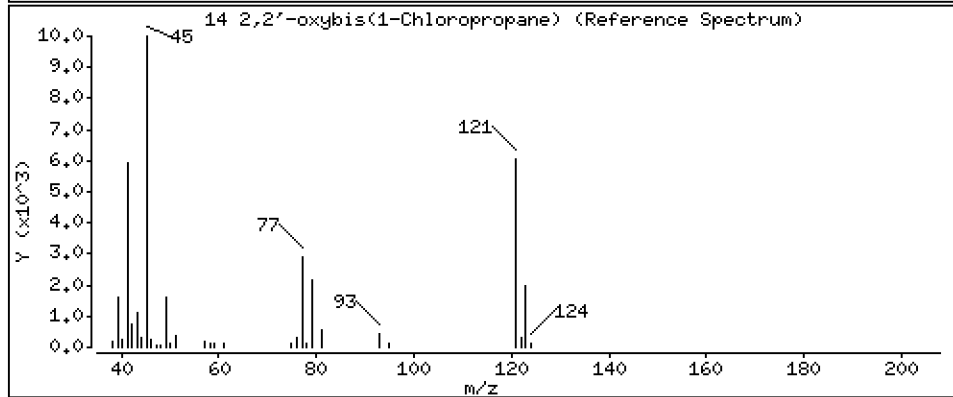
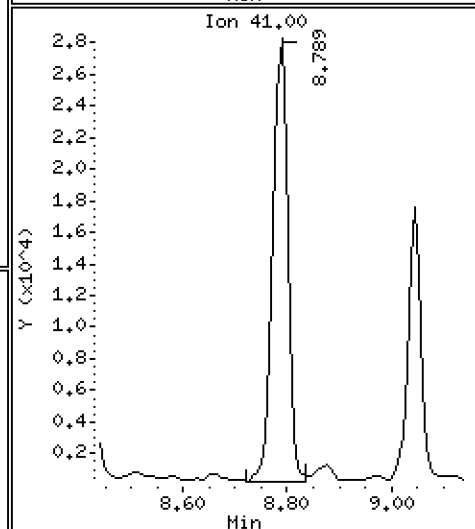
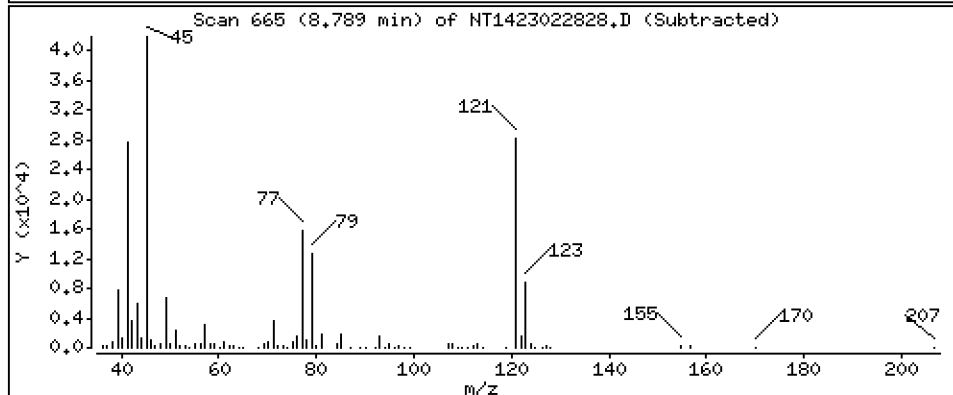
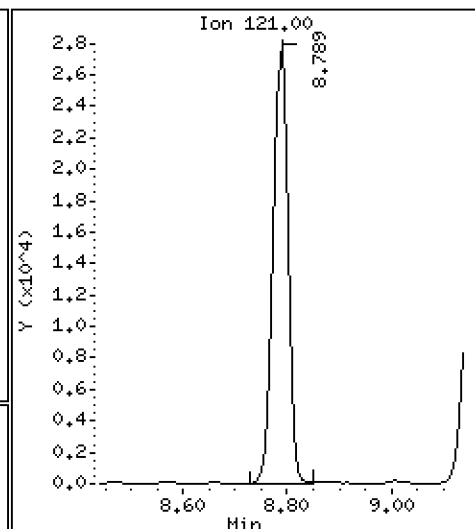
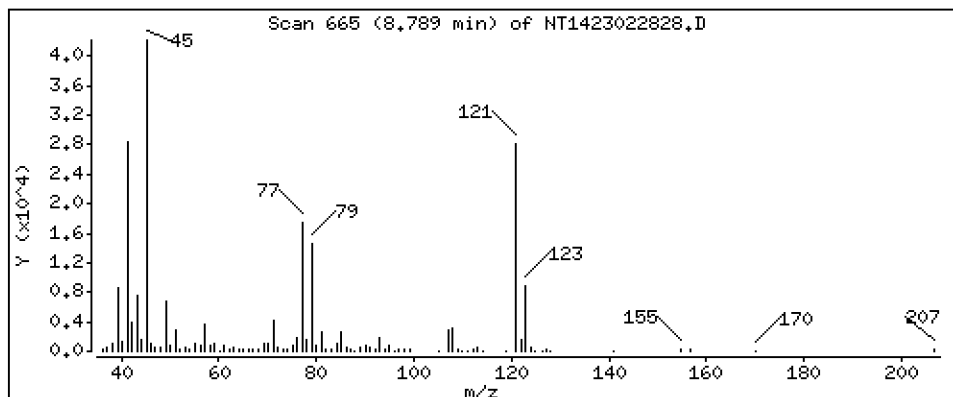
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 4,948 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

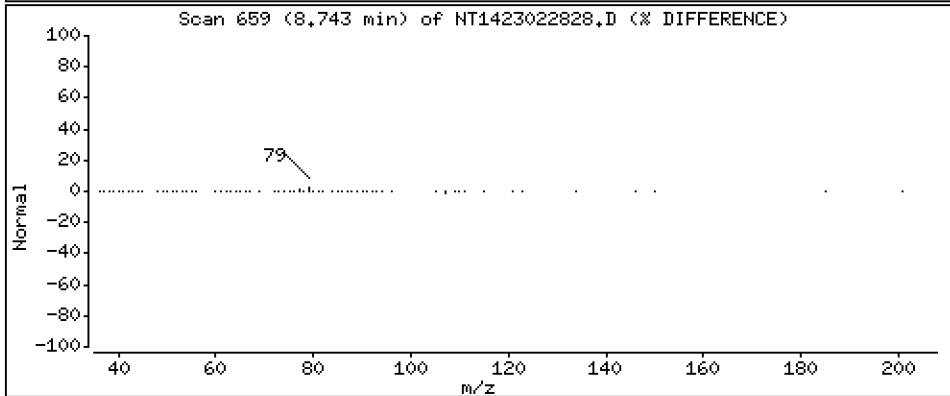
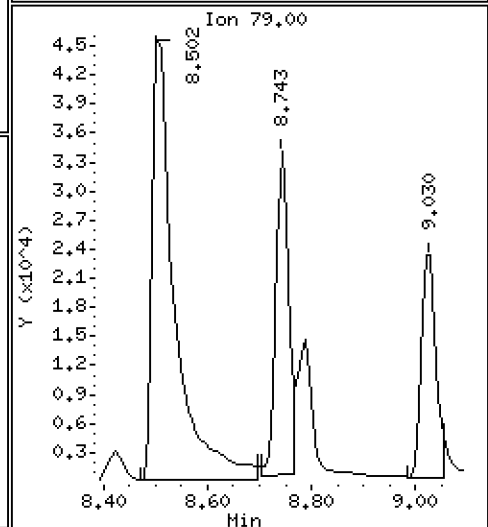
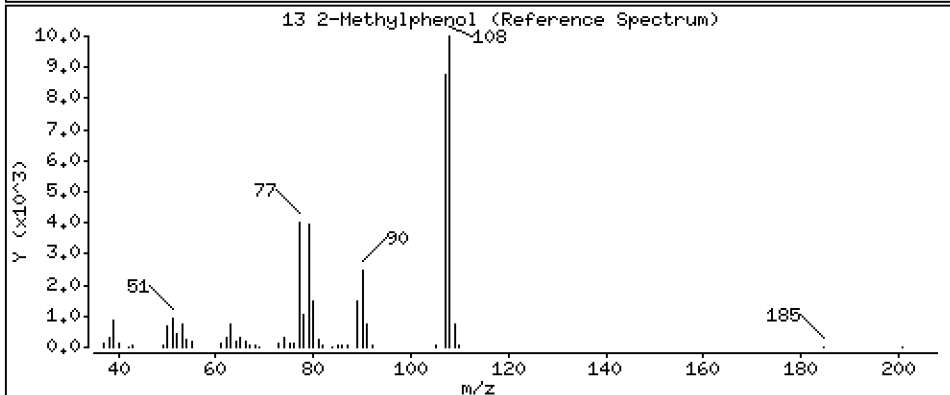
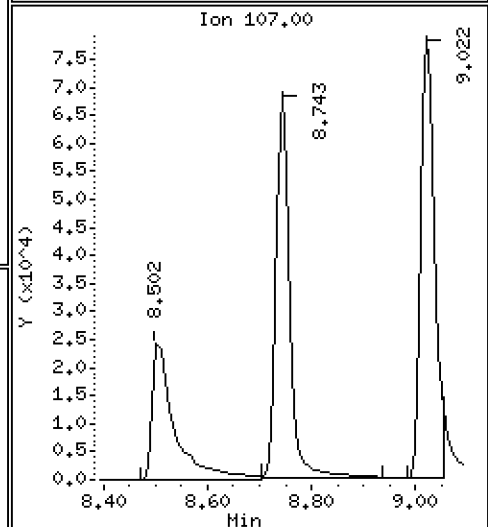
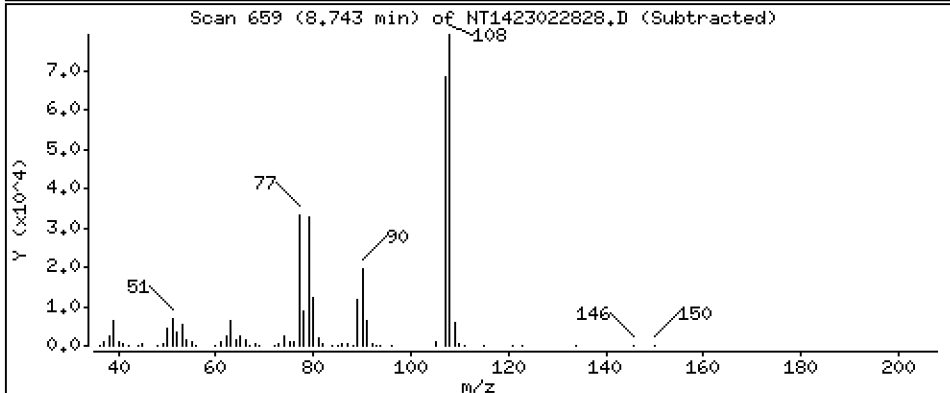
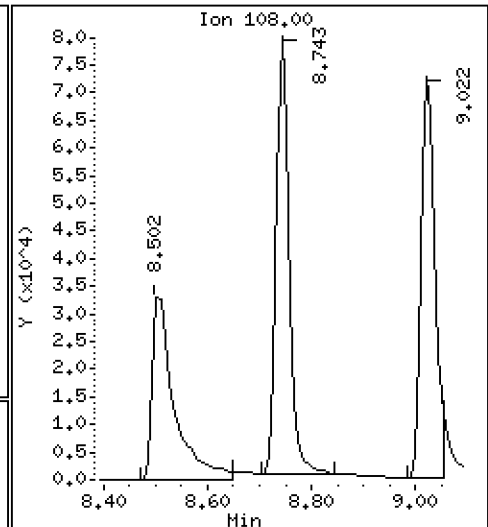
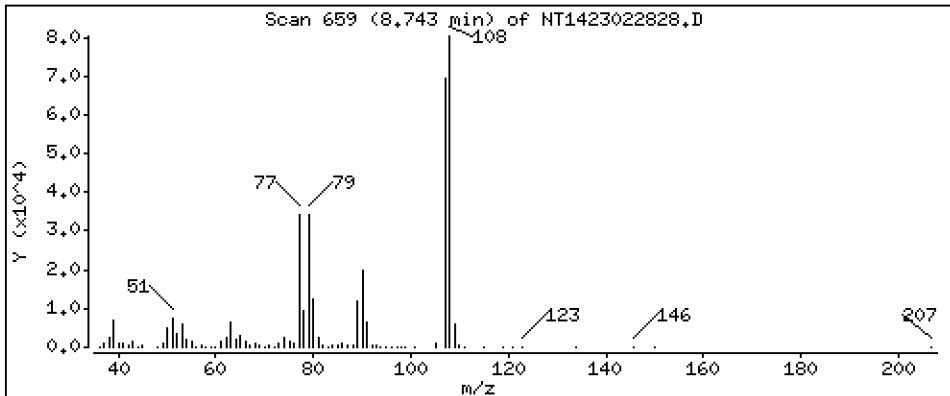
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 3,948 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

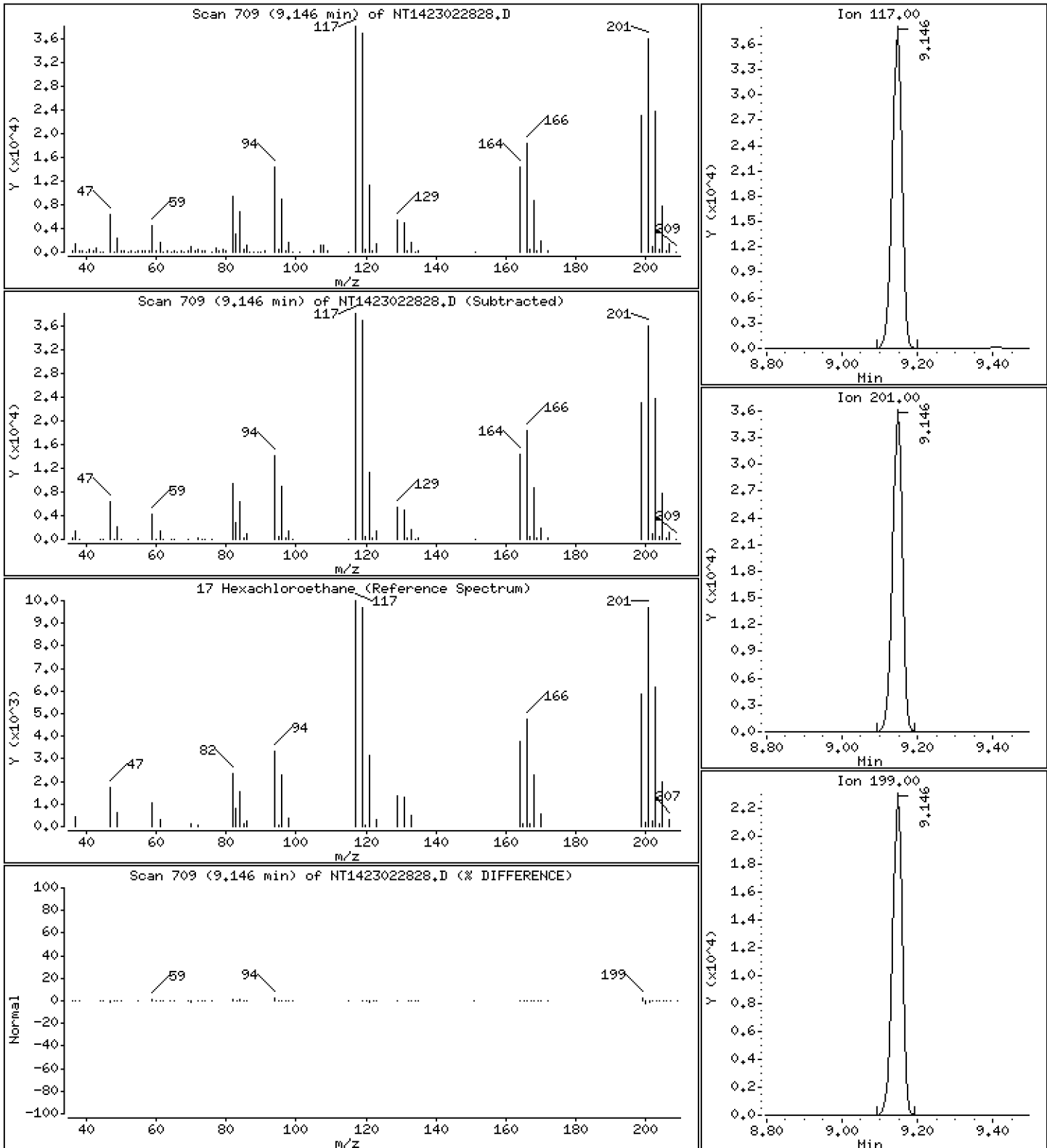
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 4,113 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

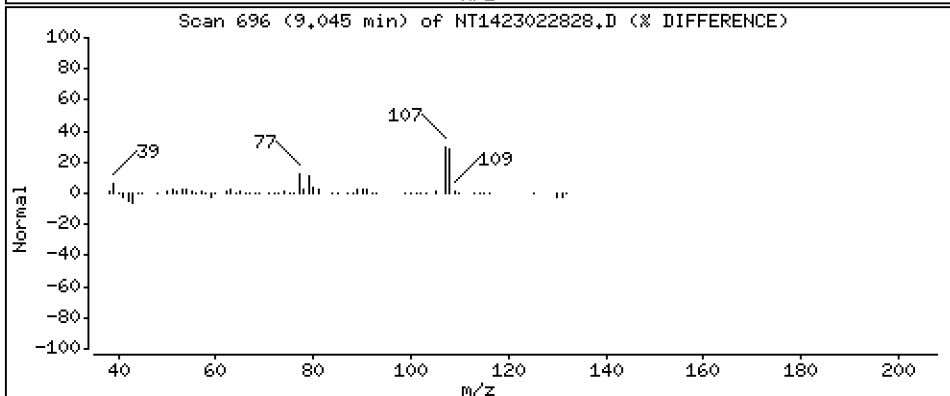
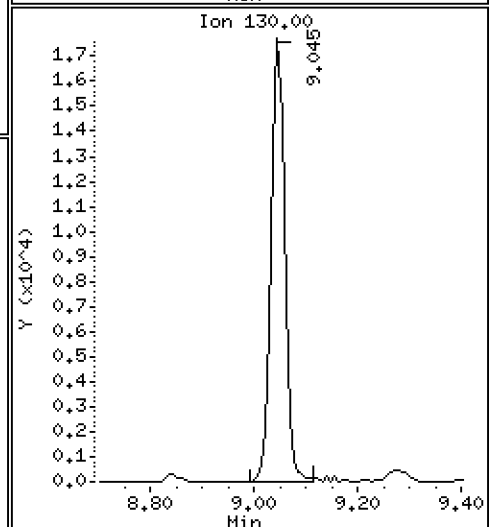
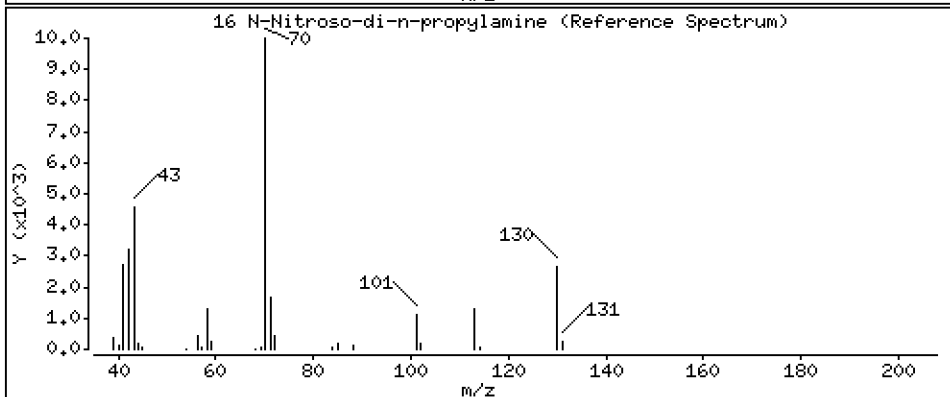
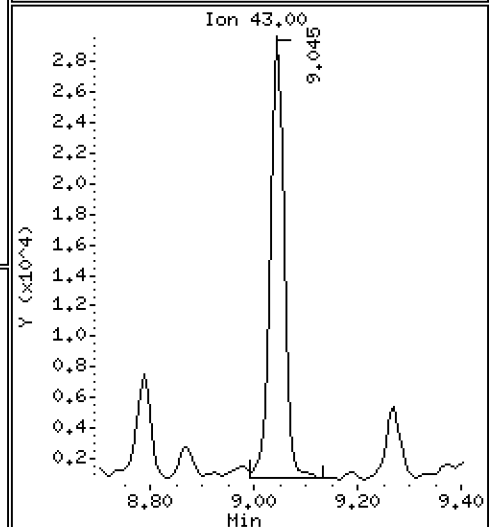
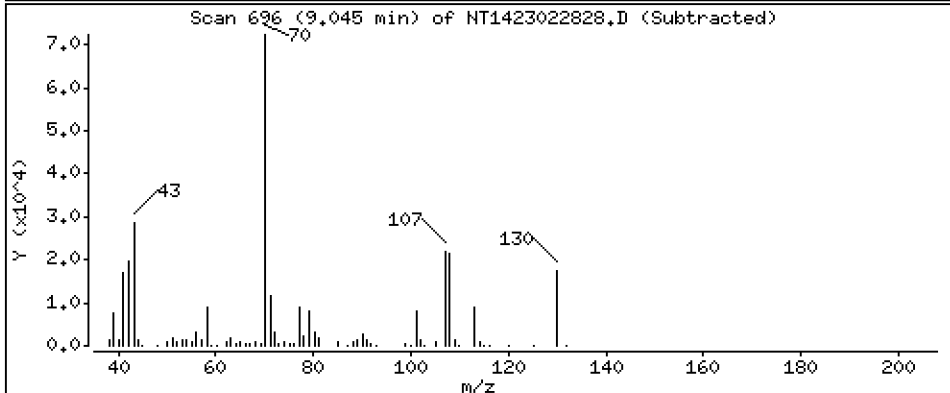
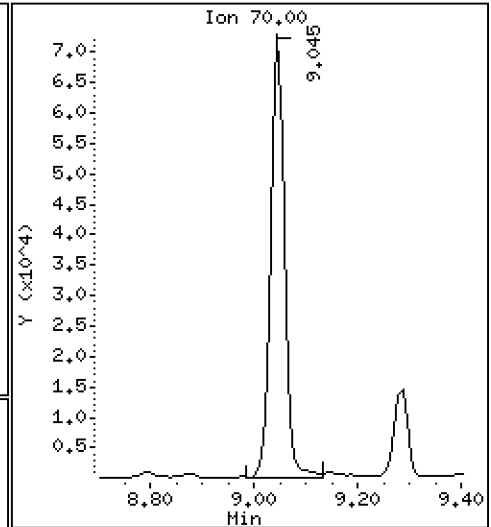
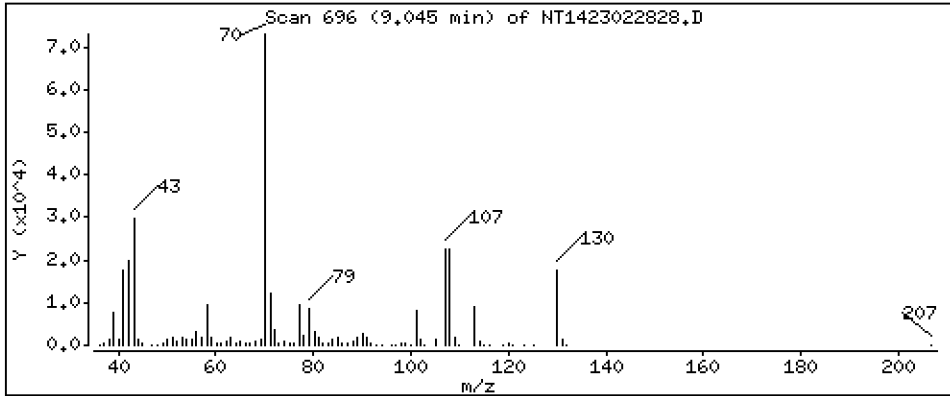
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,021 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

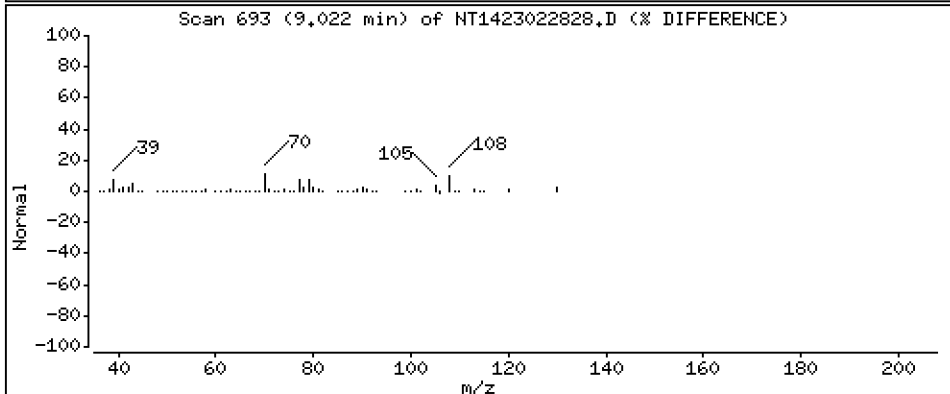
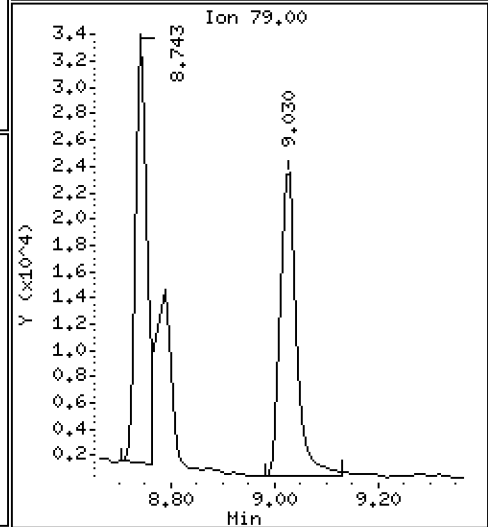
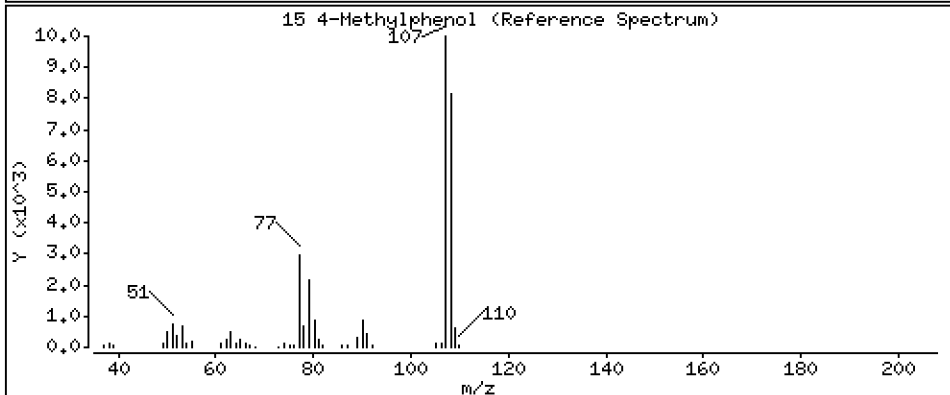
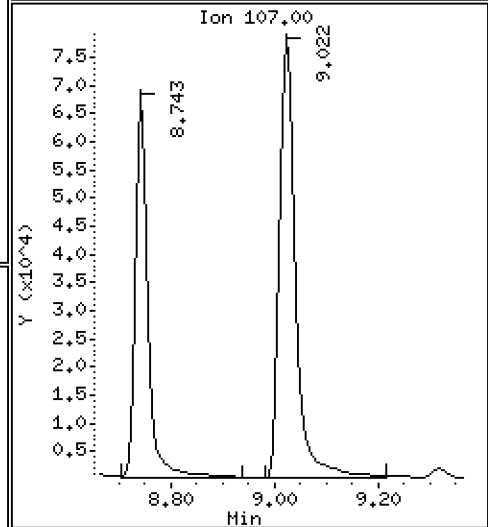
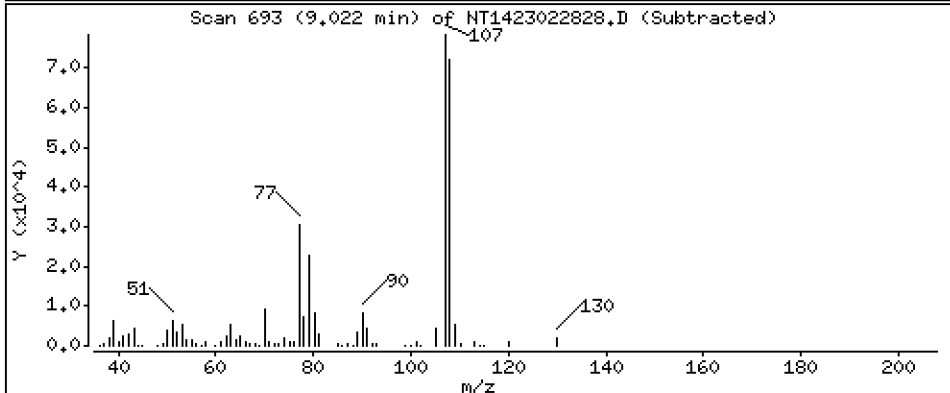
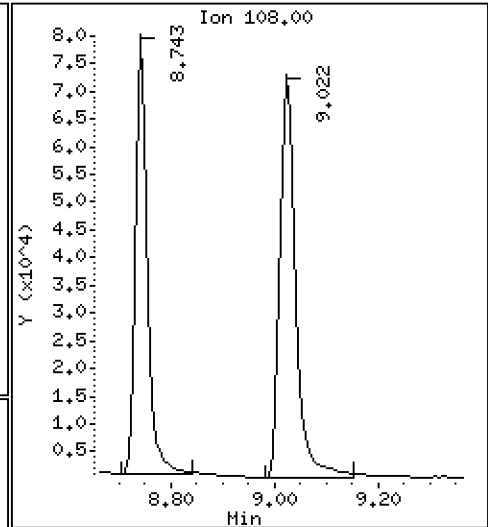
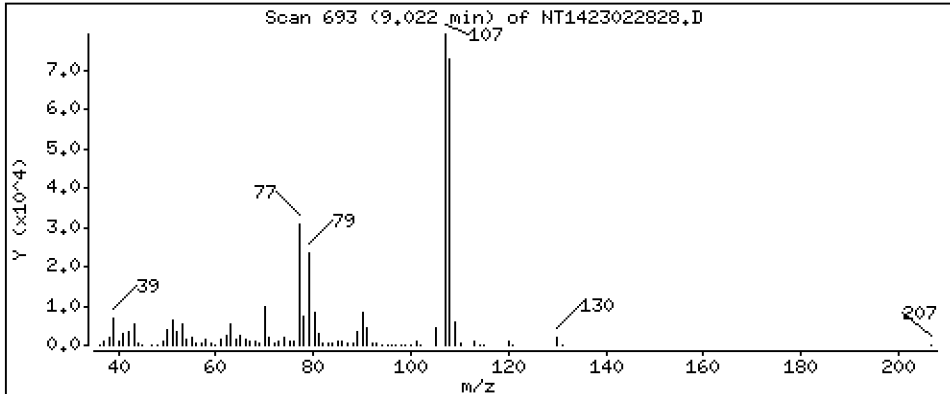
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,047 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

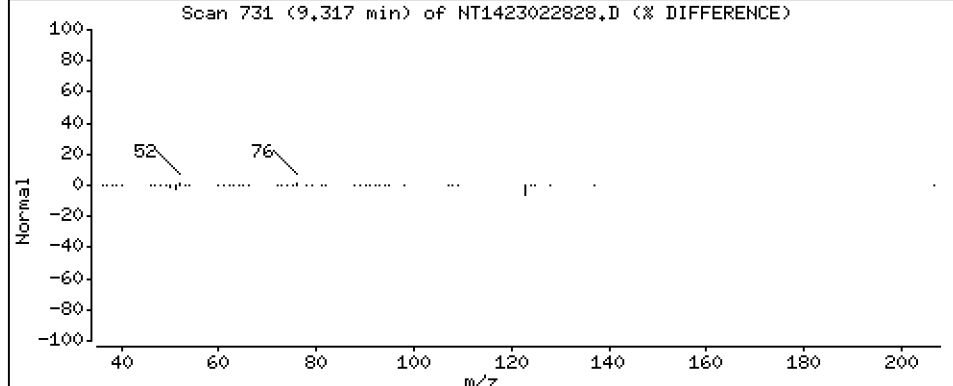
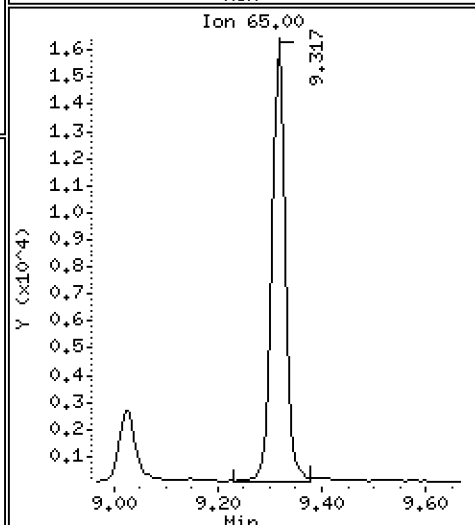
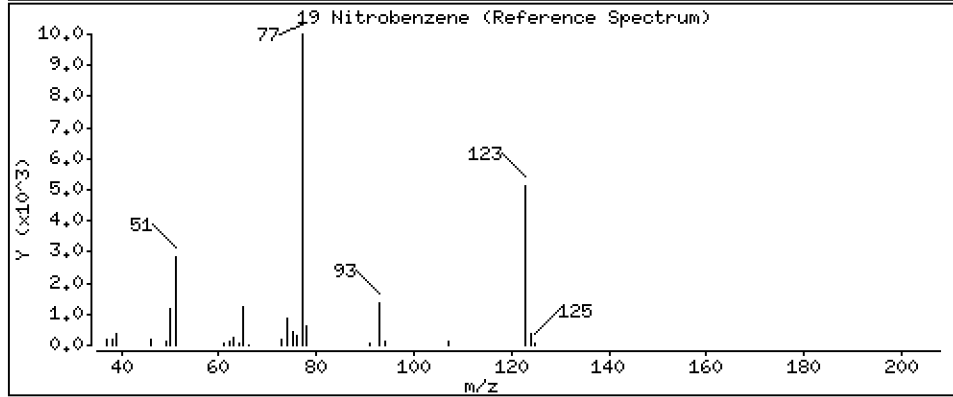
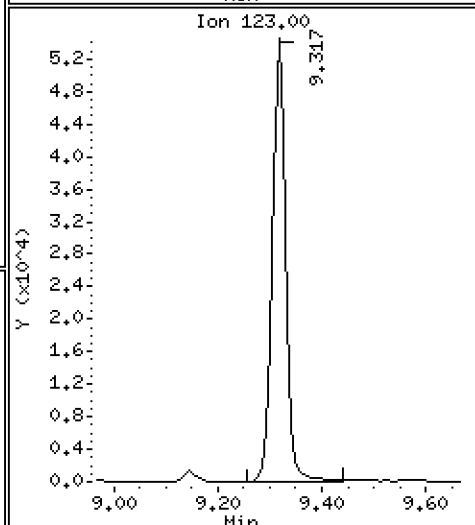
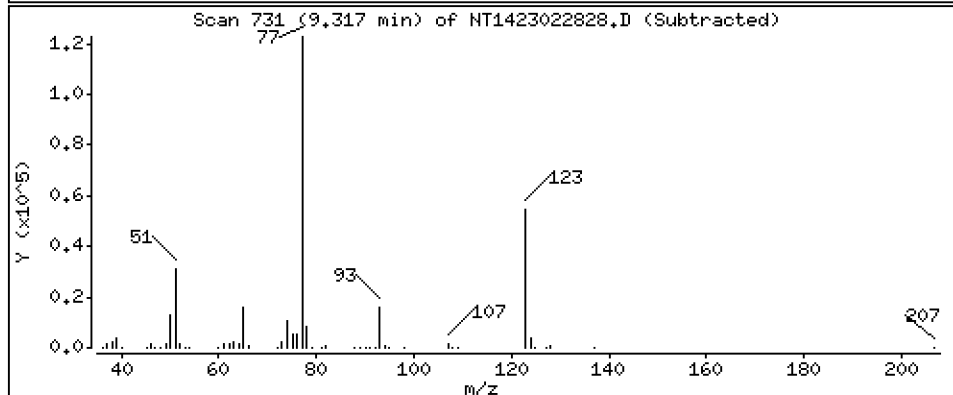
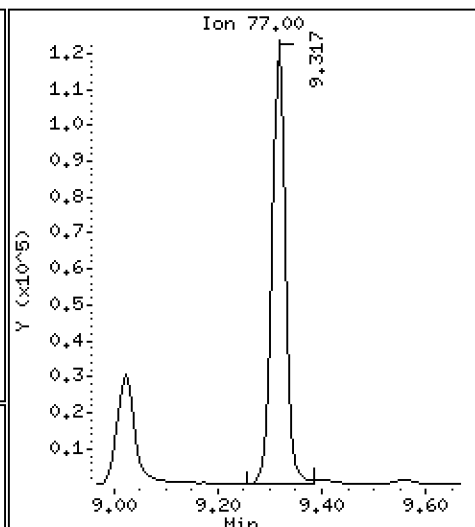
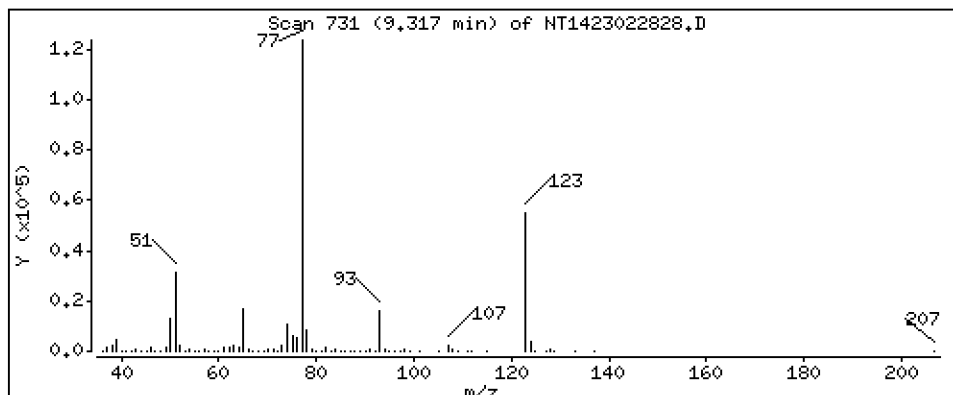
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 5,374 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

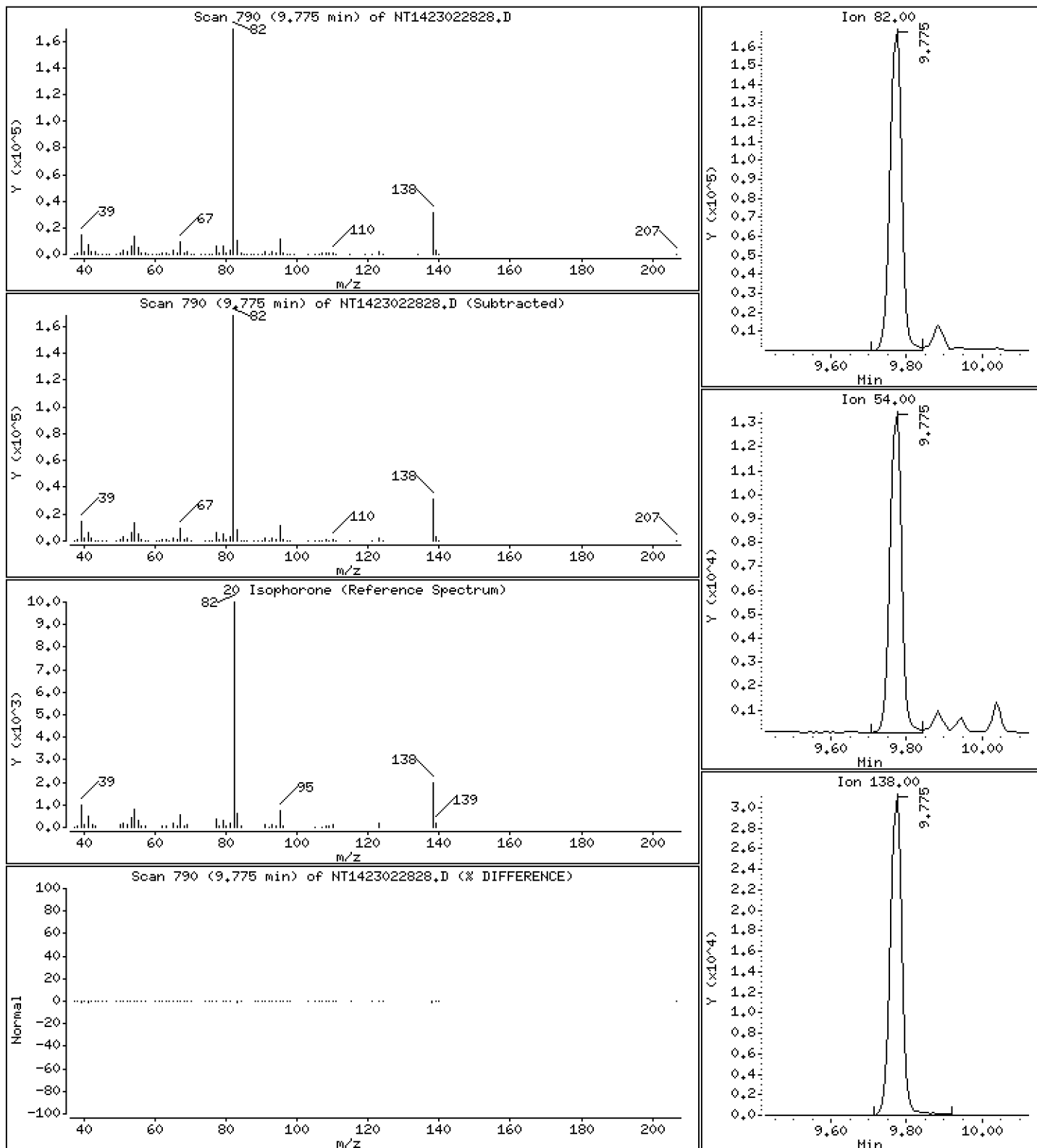
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 5,910 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

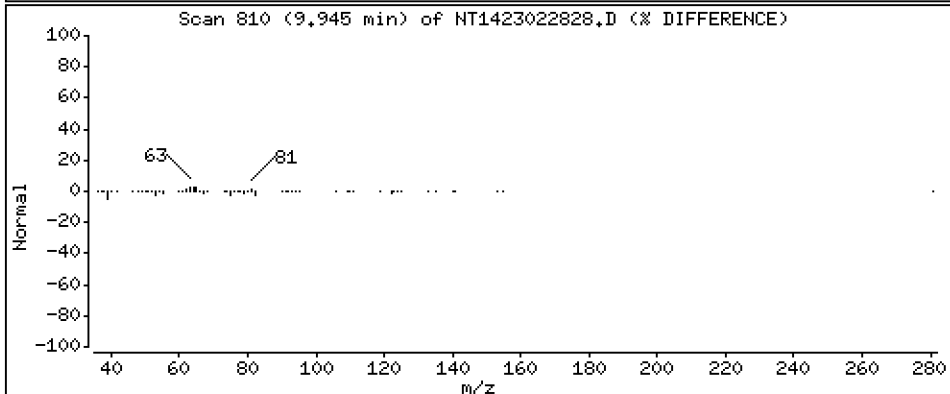
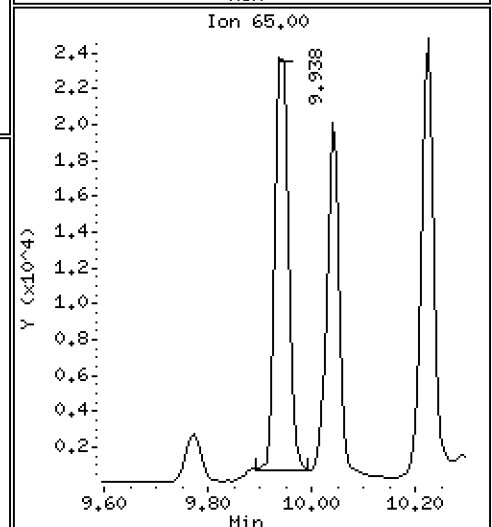
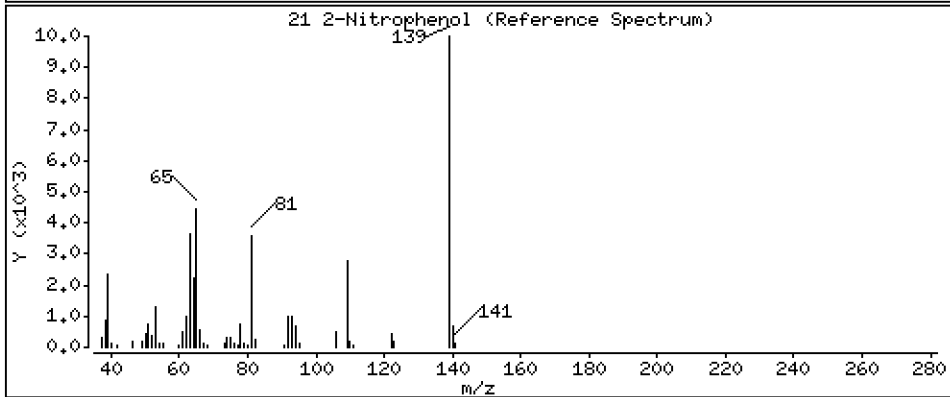
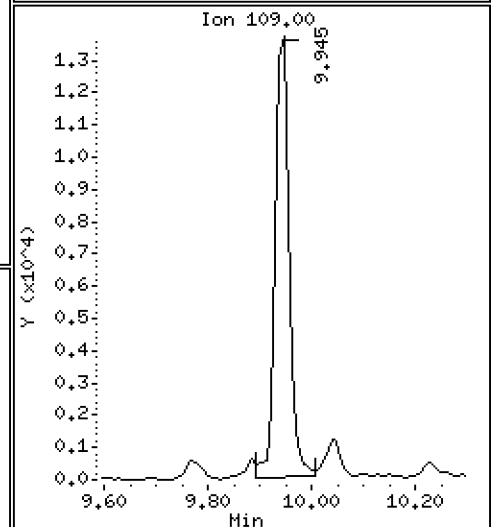
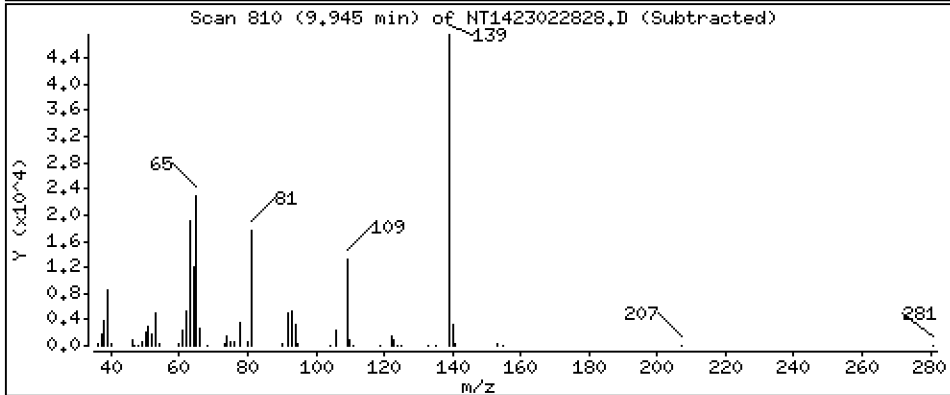
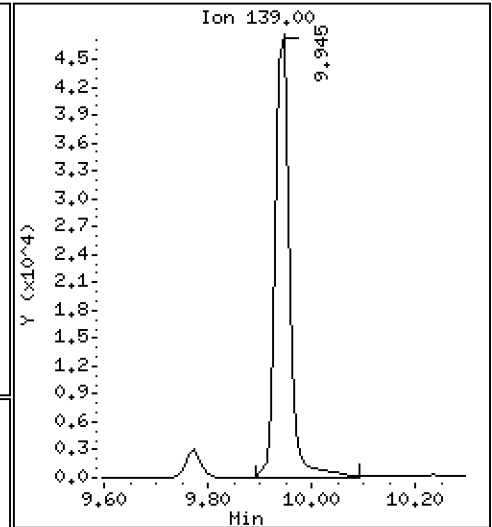
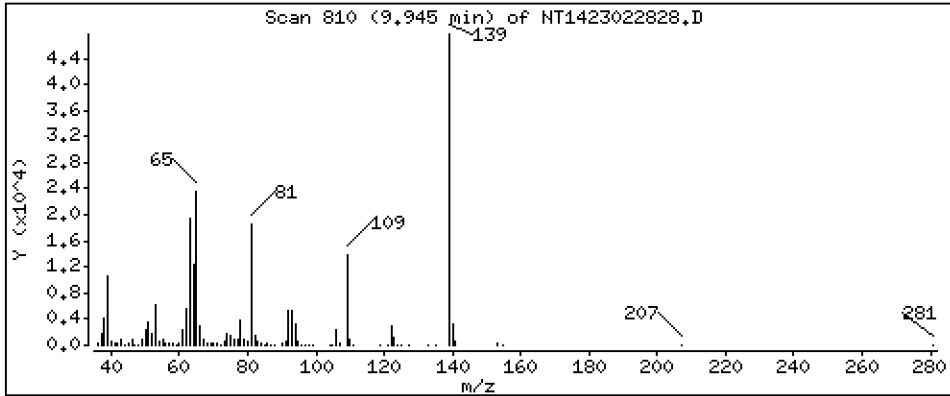
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,642 ug/mL





Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

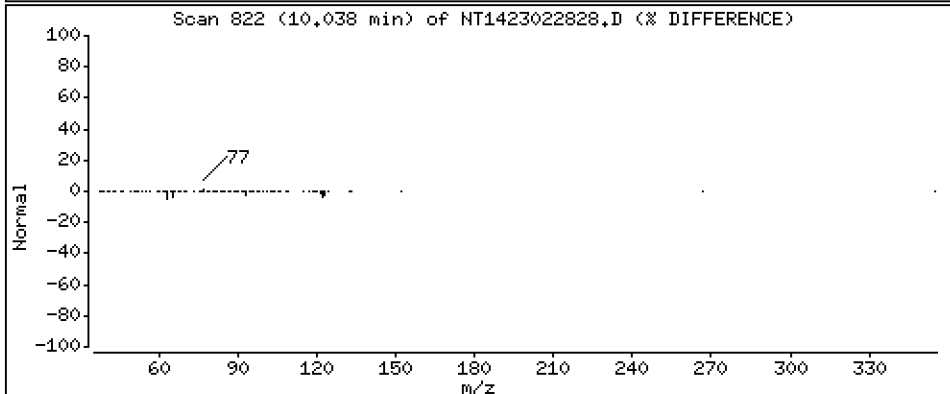
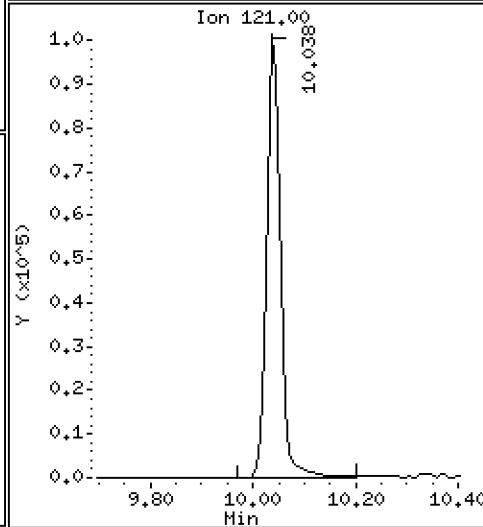
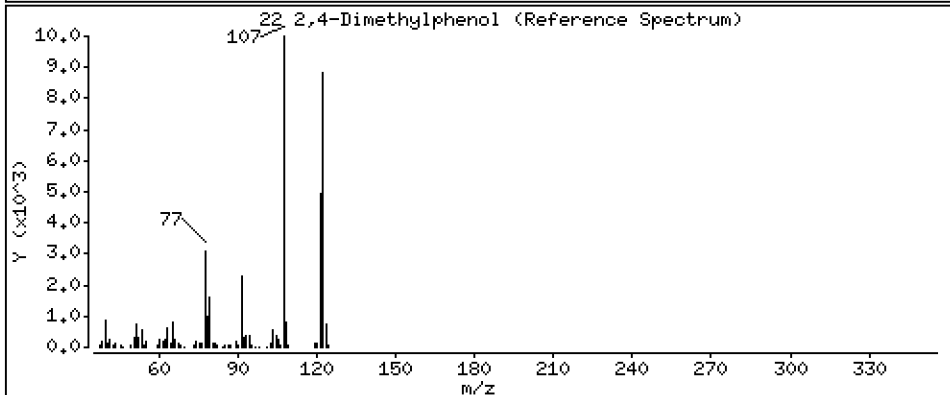
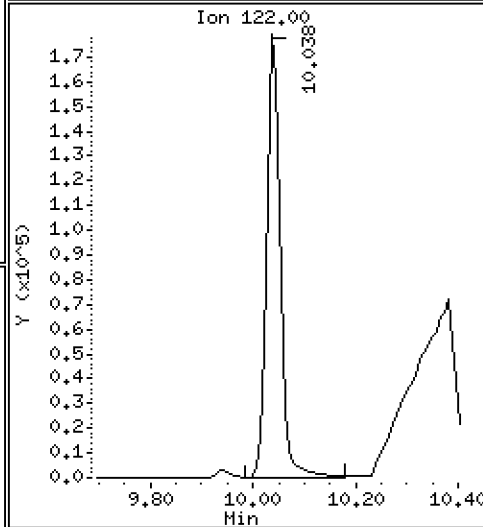
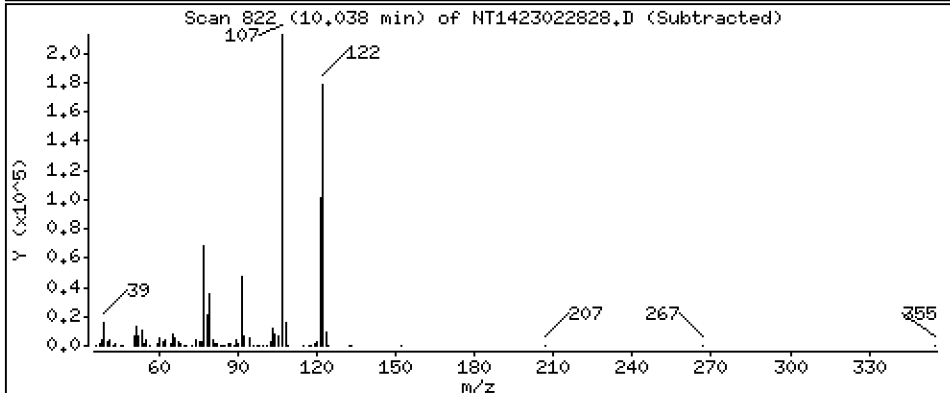
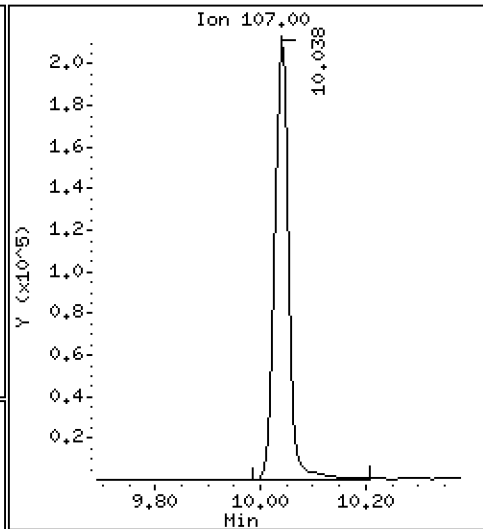
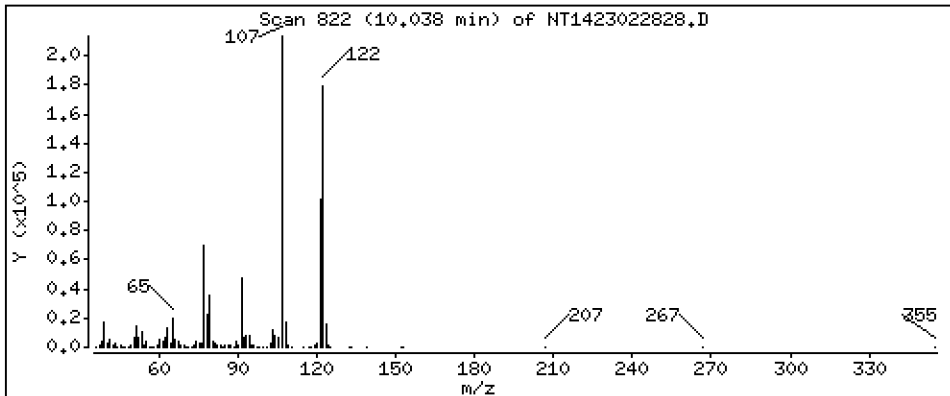
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 10,67 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

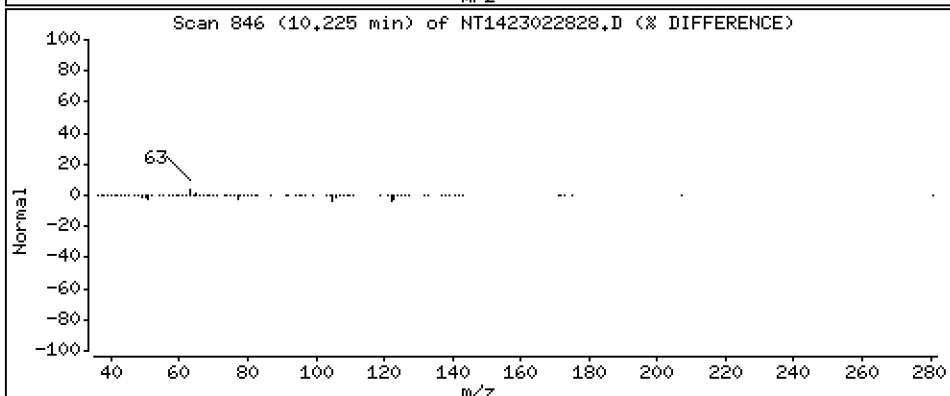
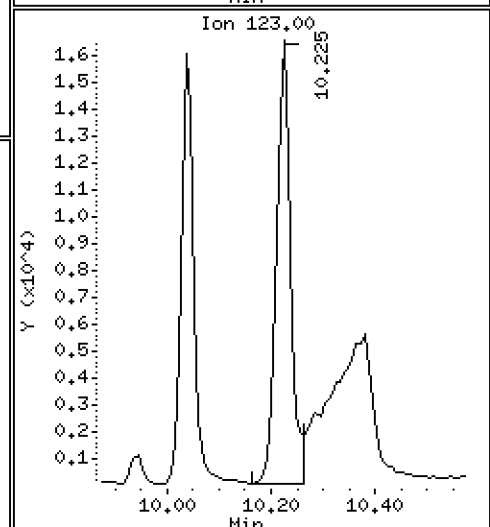
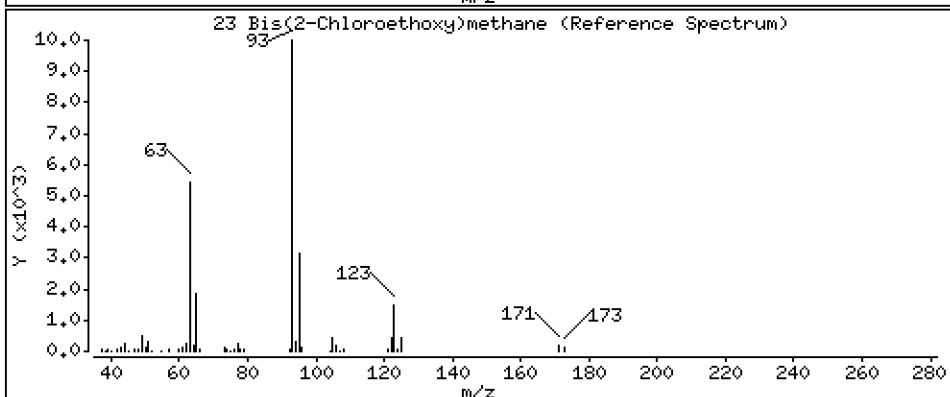
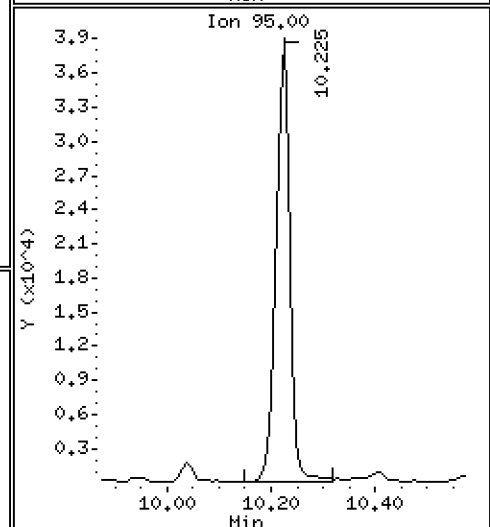
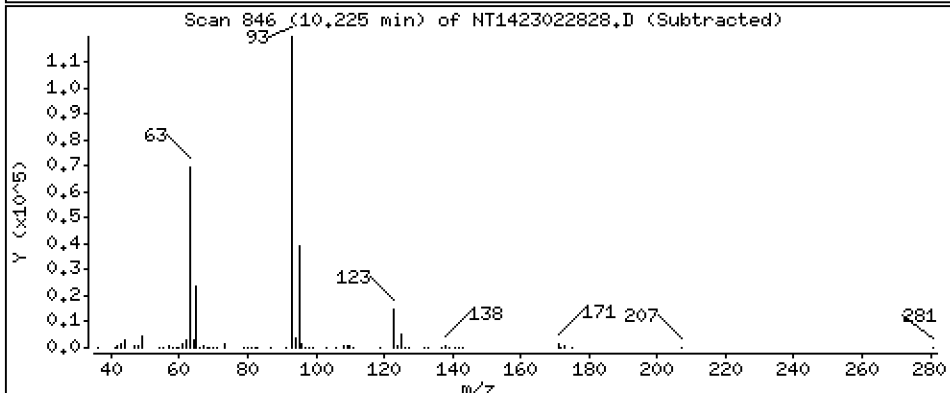
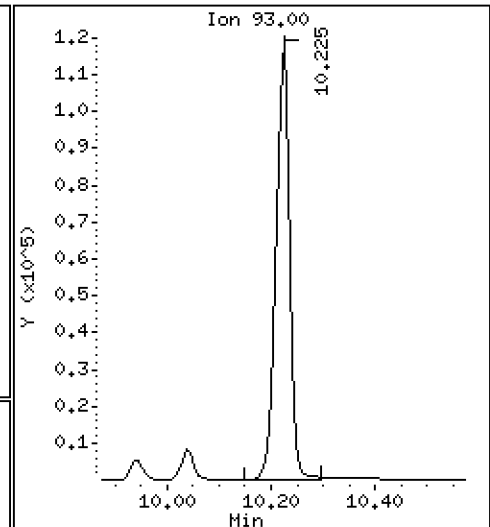
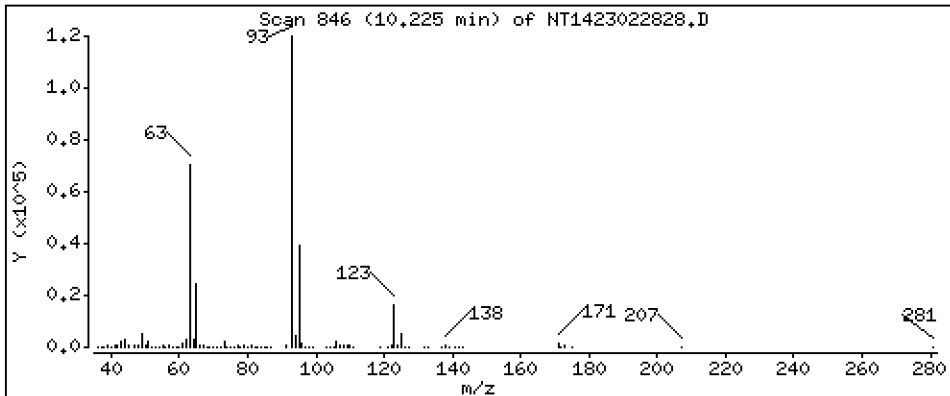
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,355 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

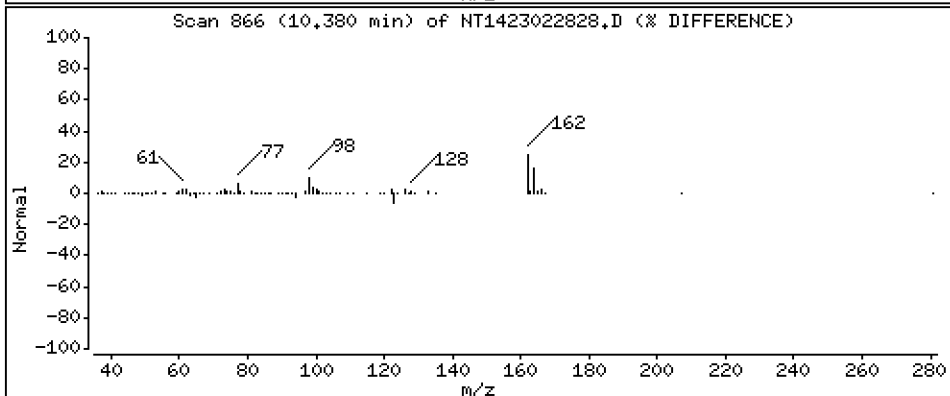
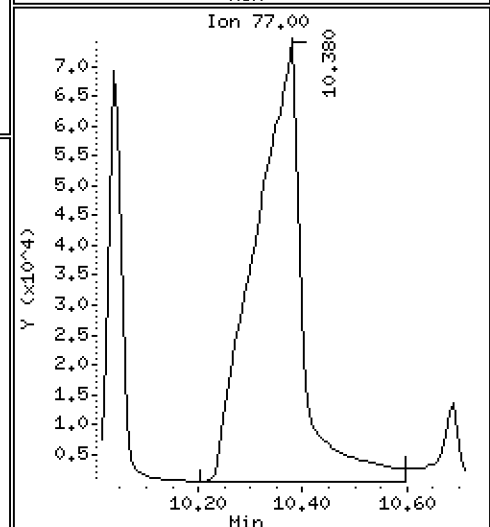
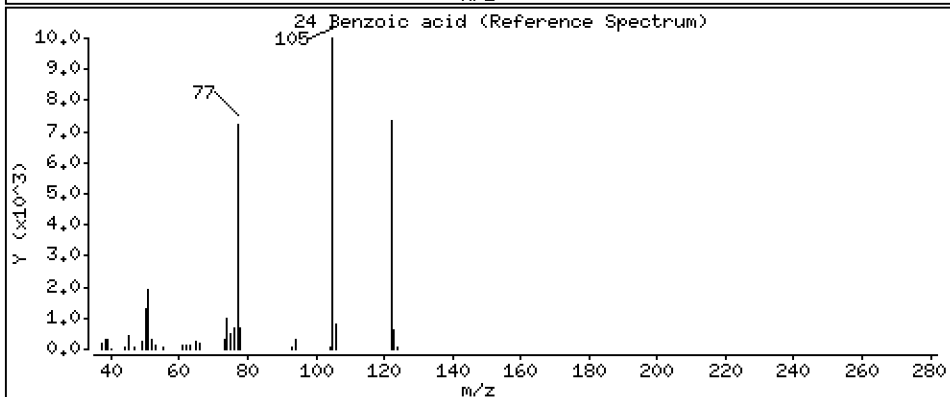
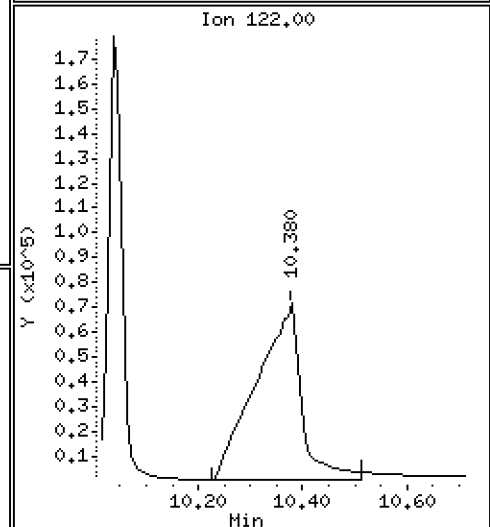
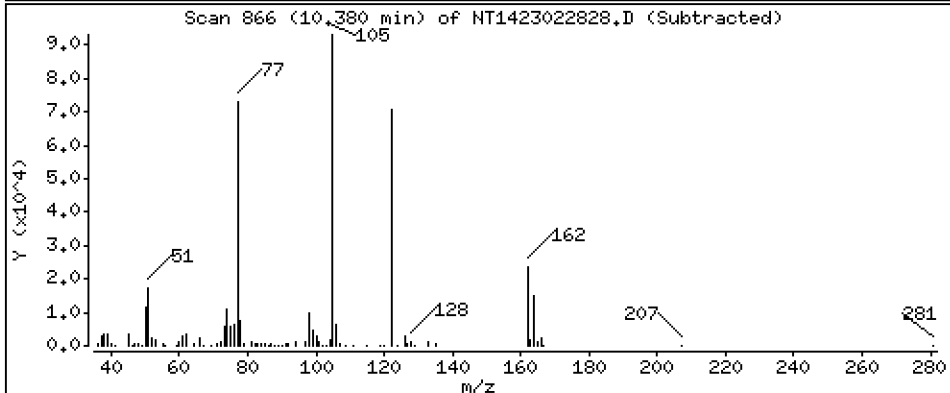
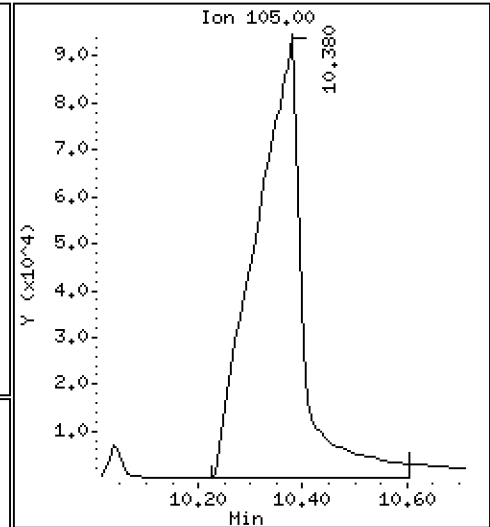
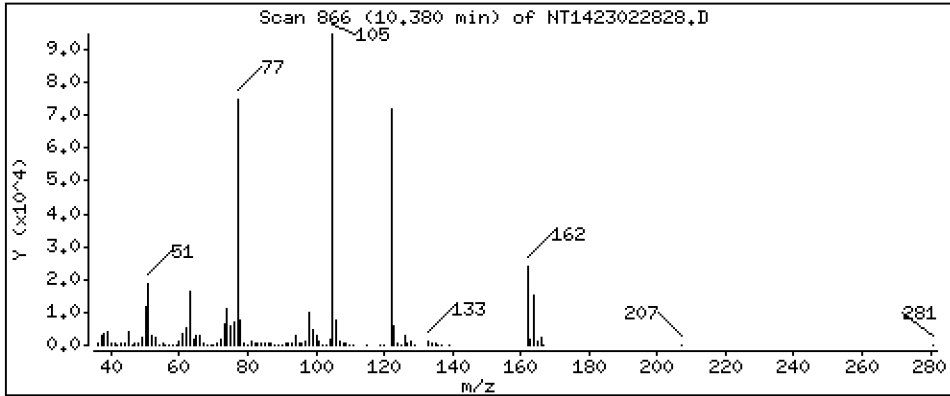
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 40,24 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

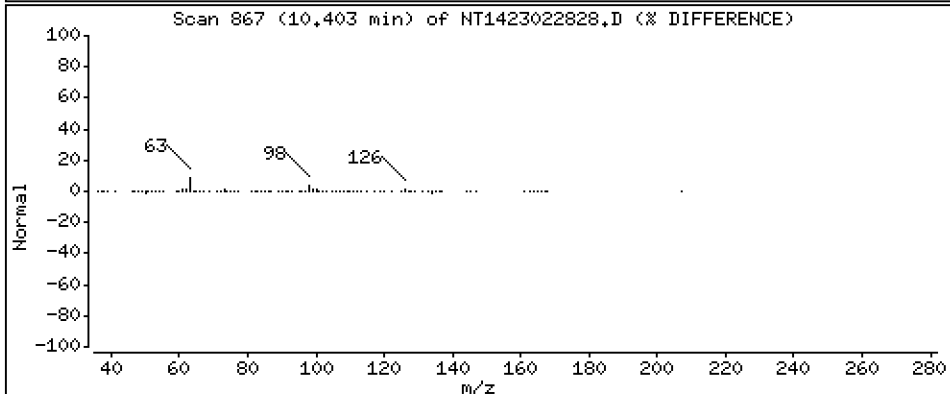
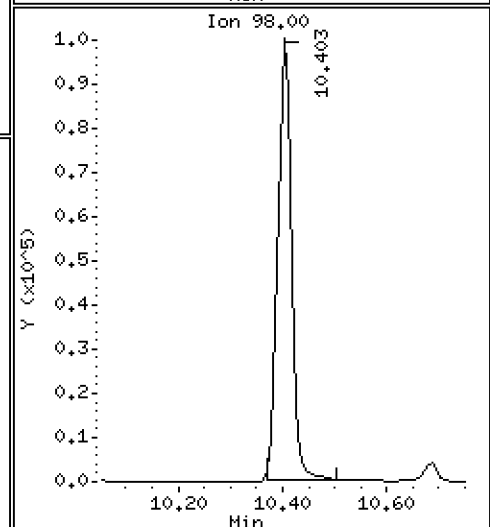
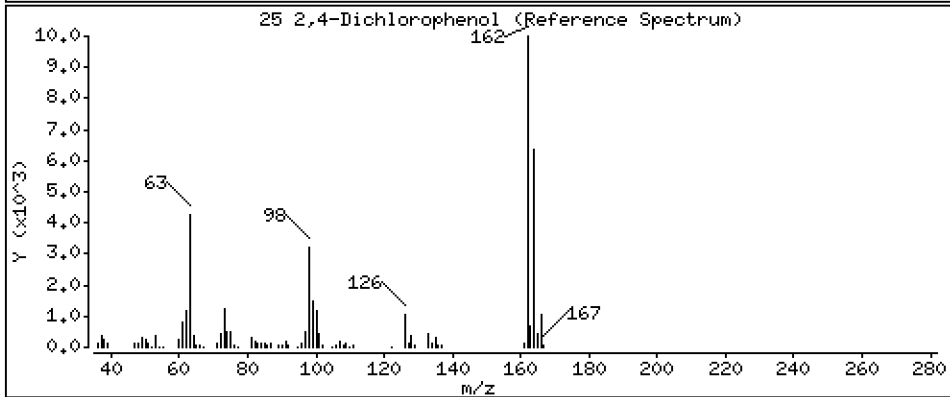
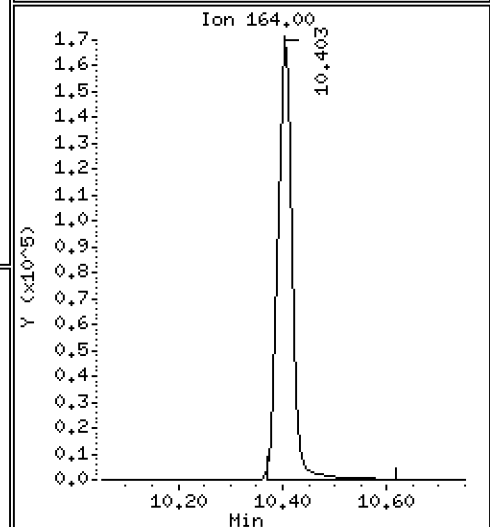
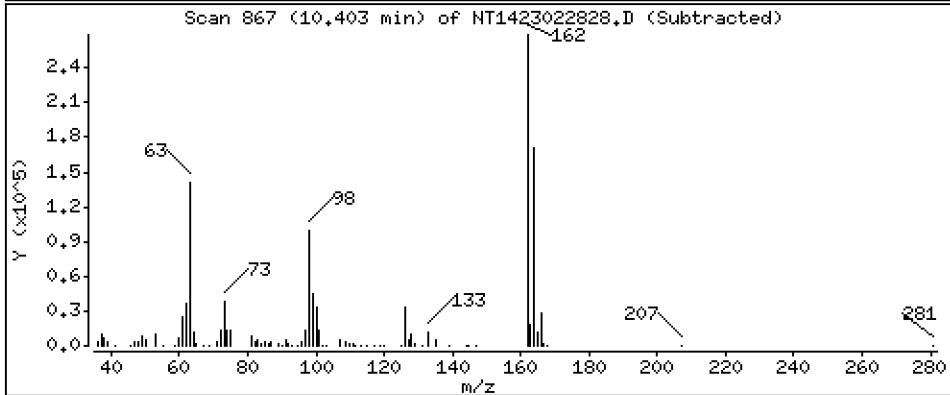
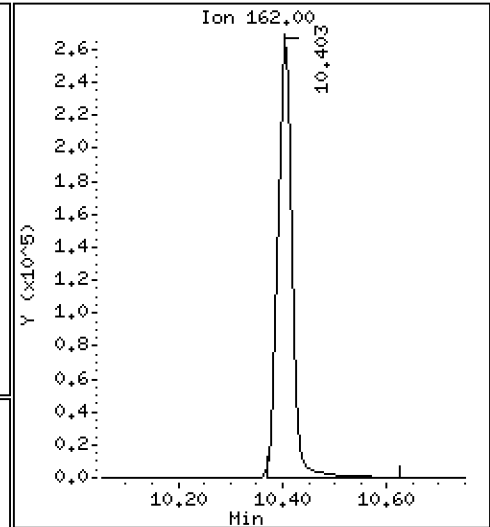
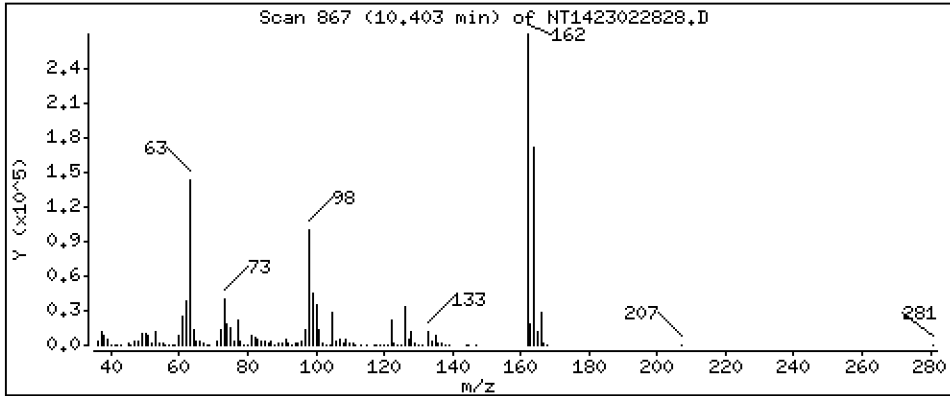
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 11,41 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

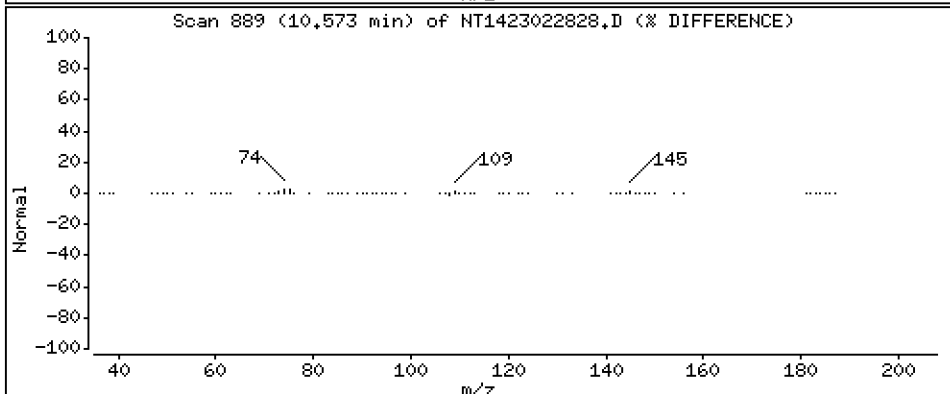
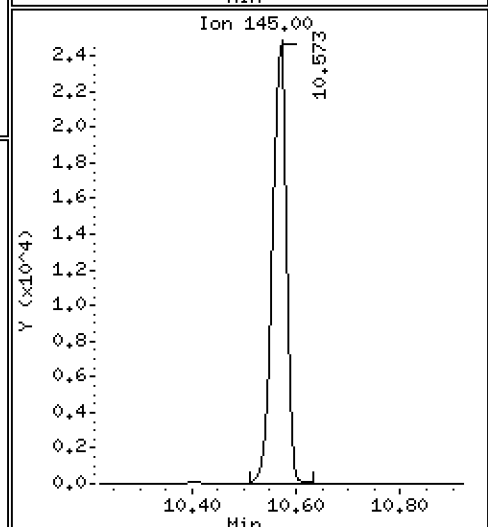
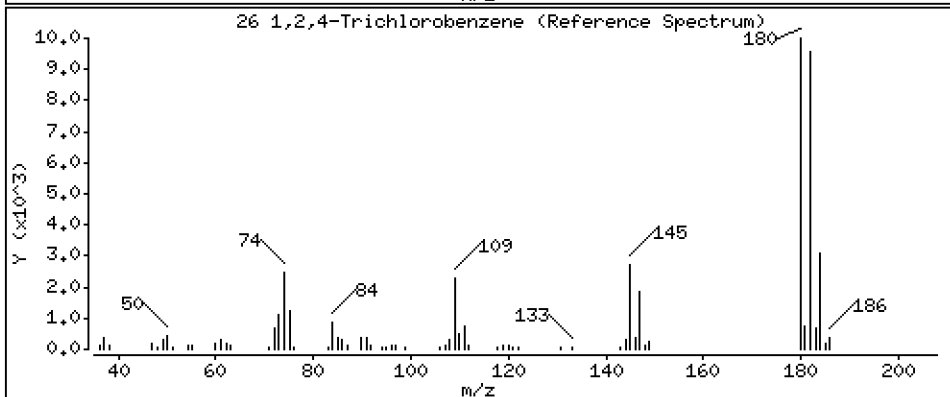
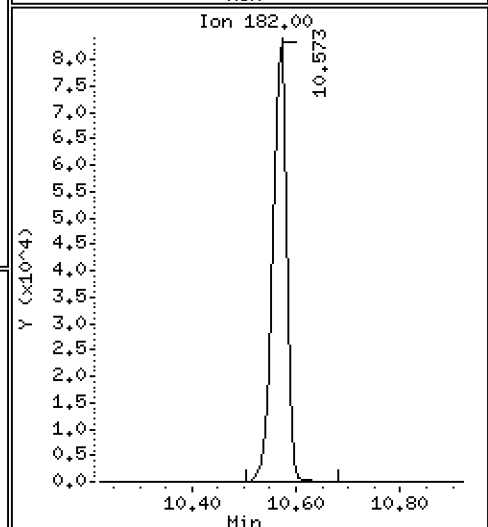
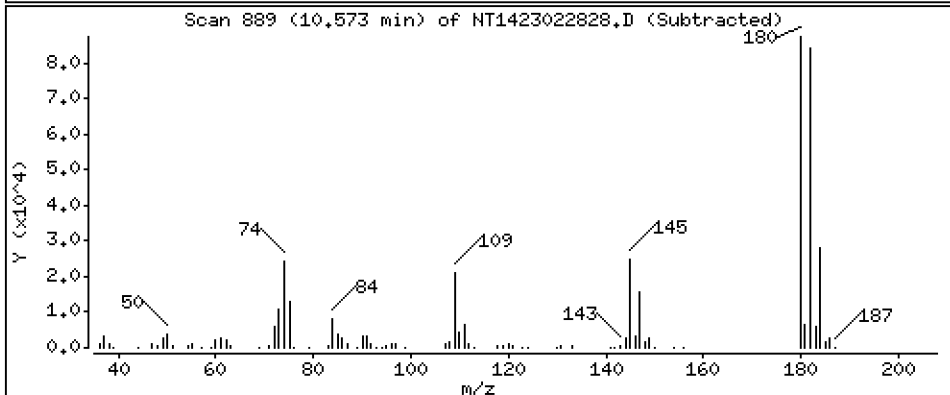
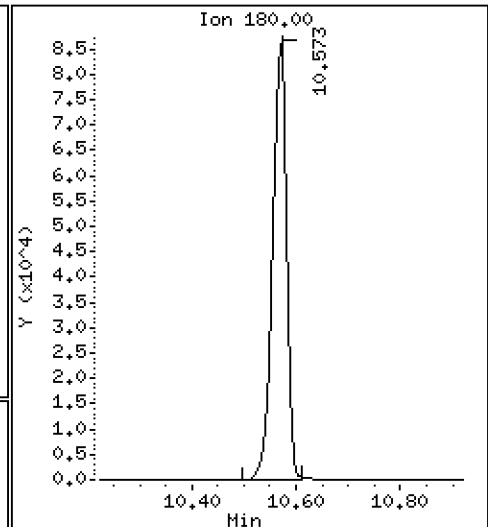
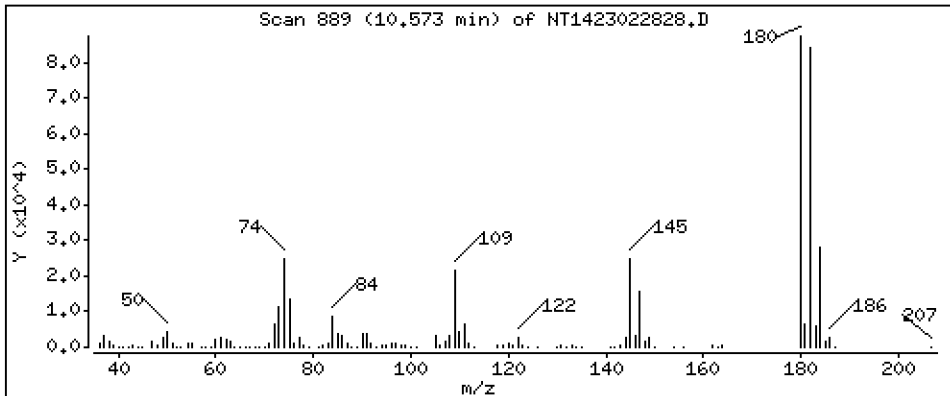
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 3,884 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

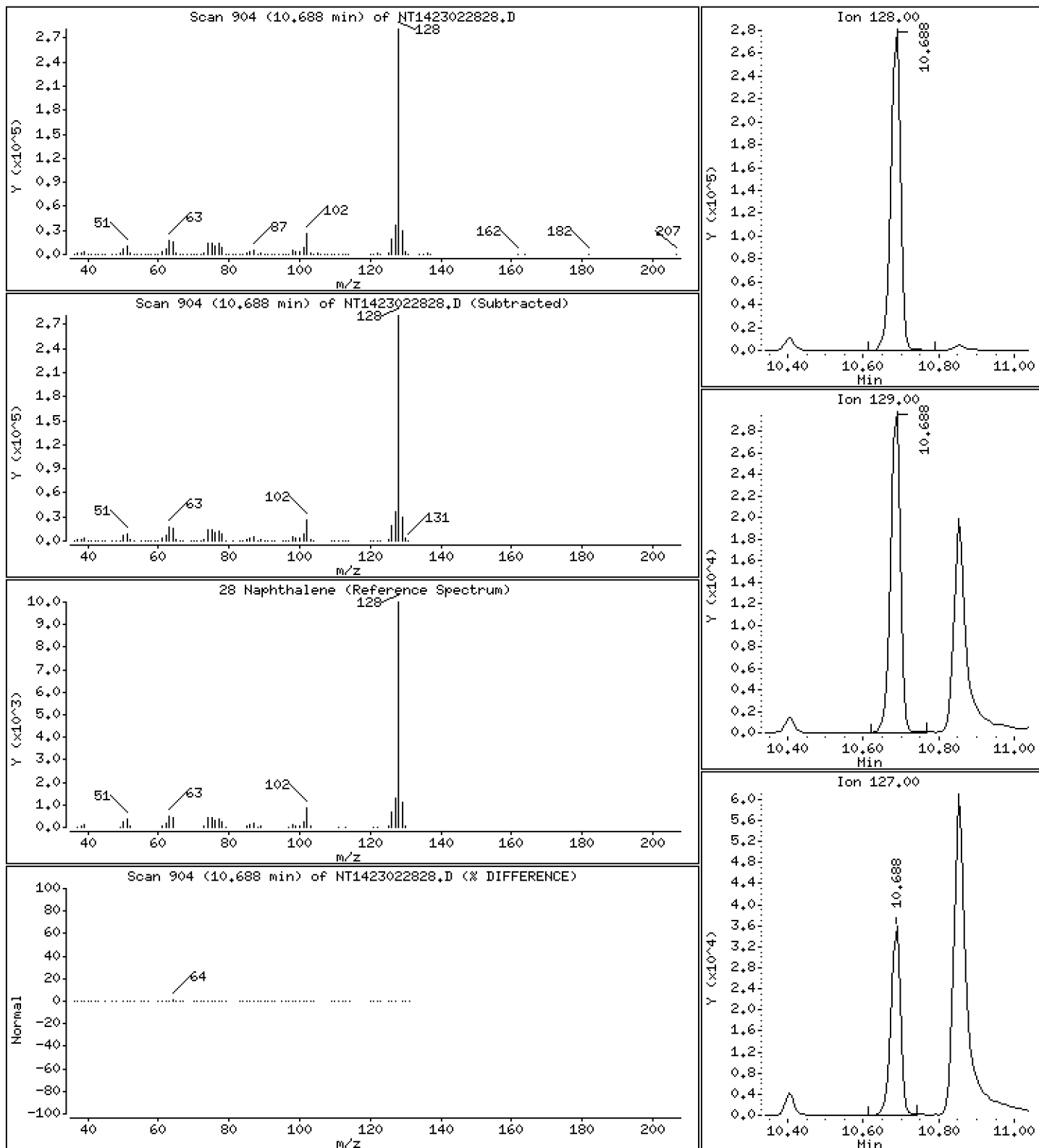
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,285 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

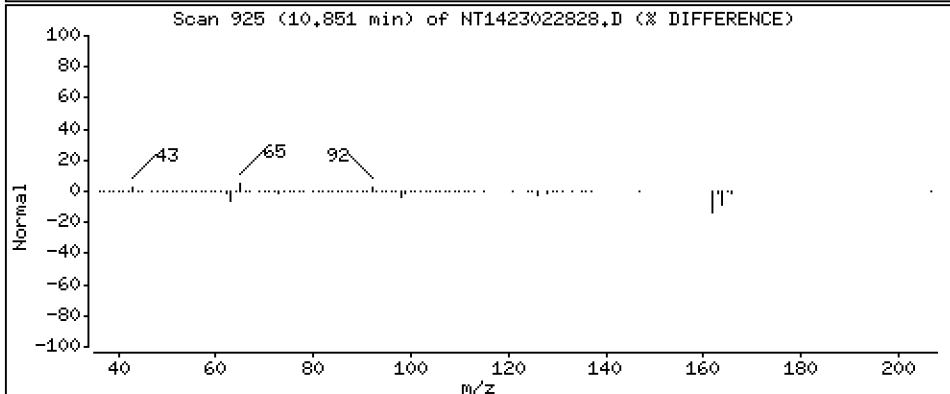
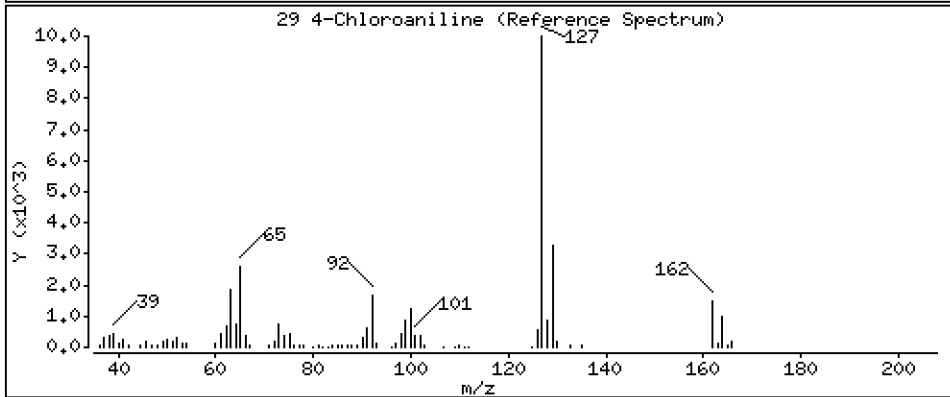
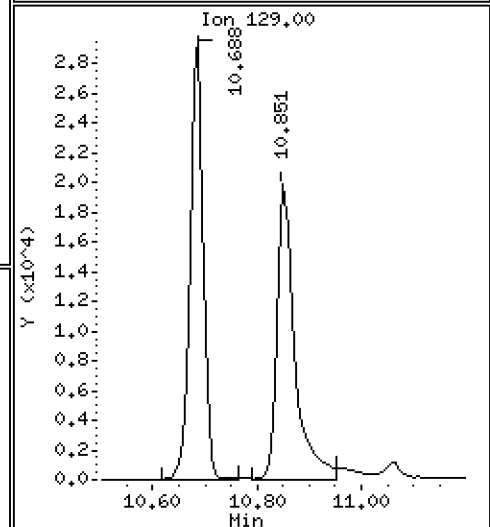
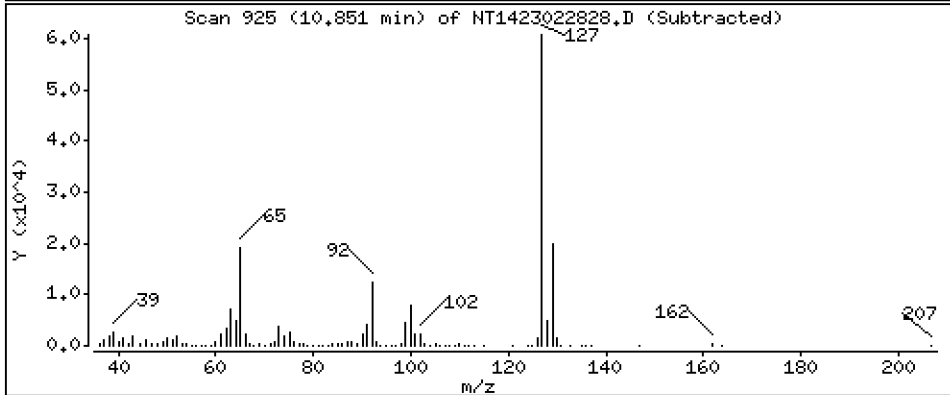
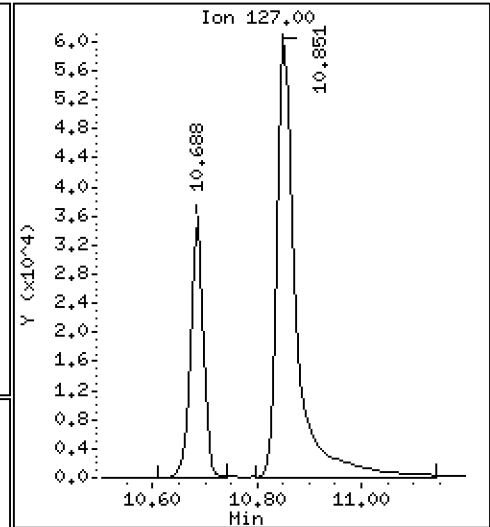
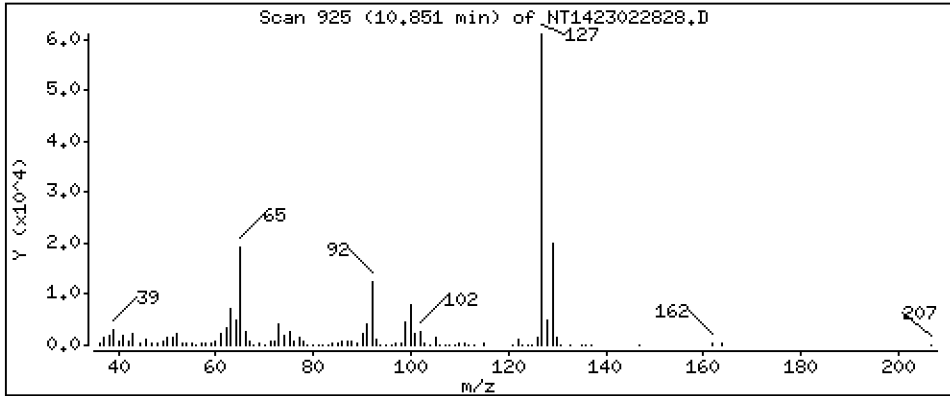
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 3,317 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

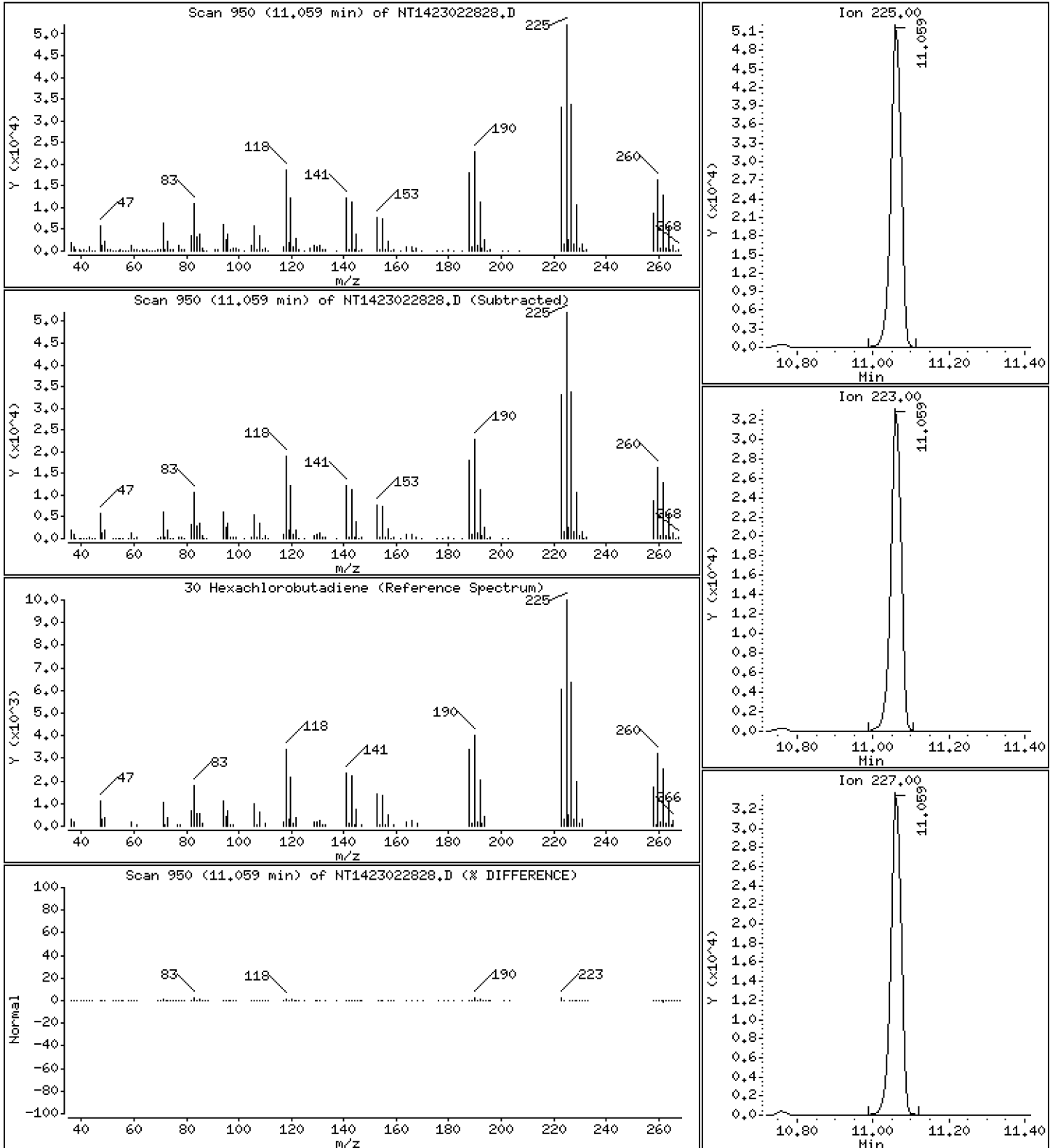
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,442 ug/mL





Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

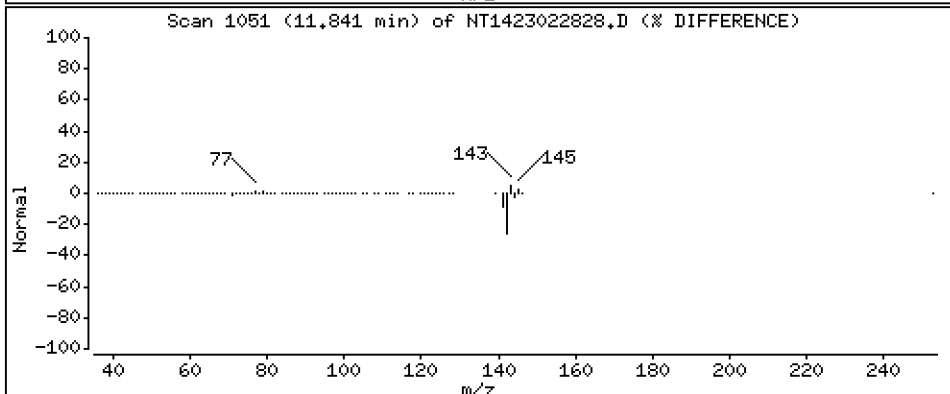
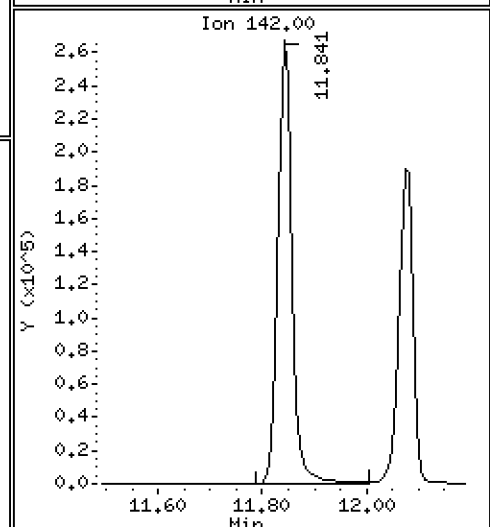
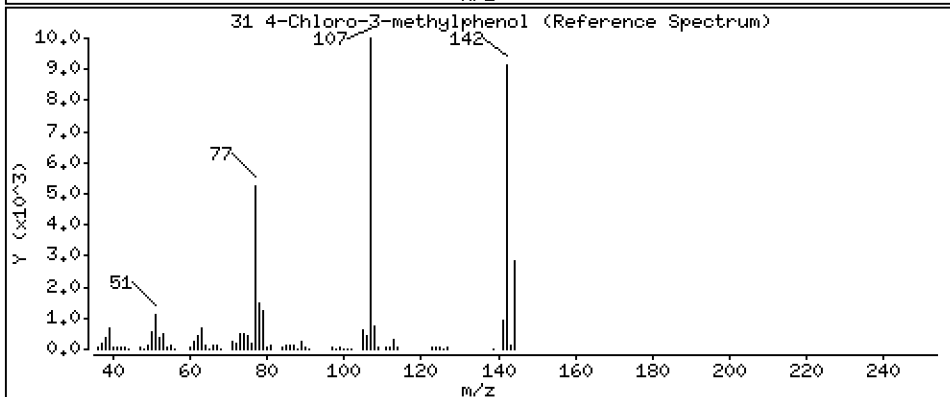
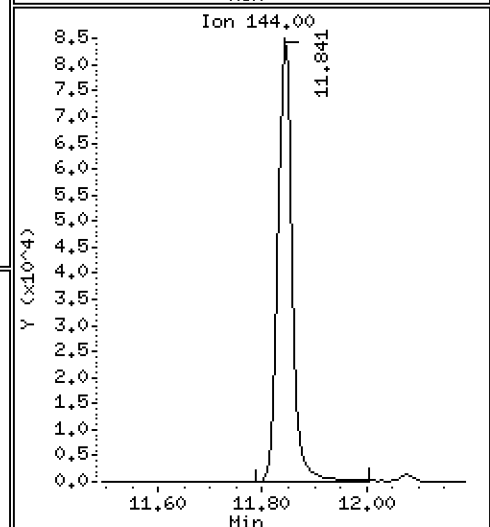
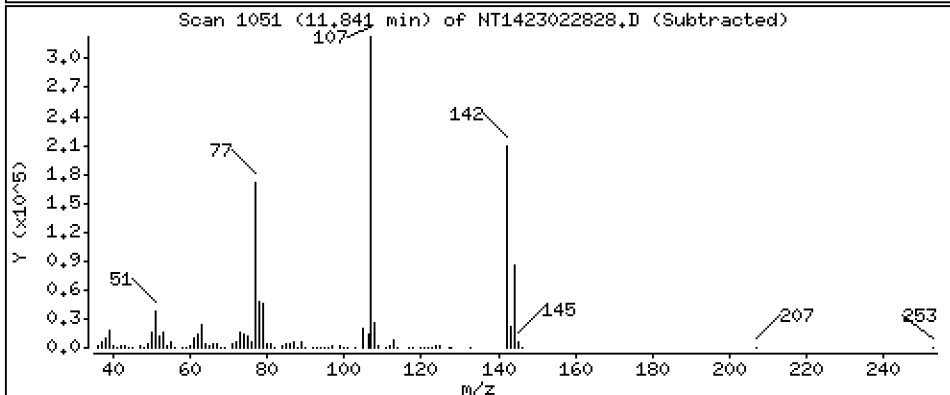
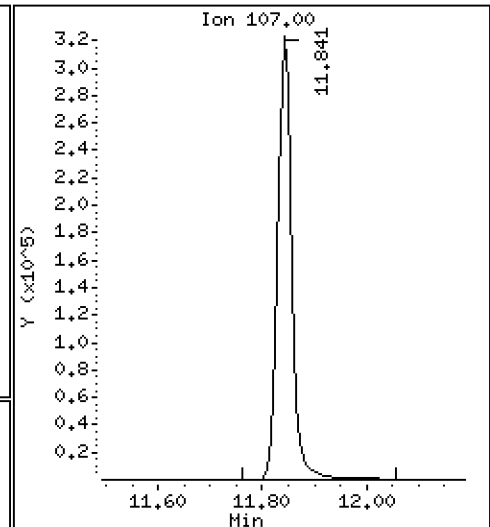
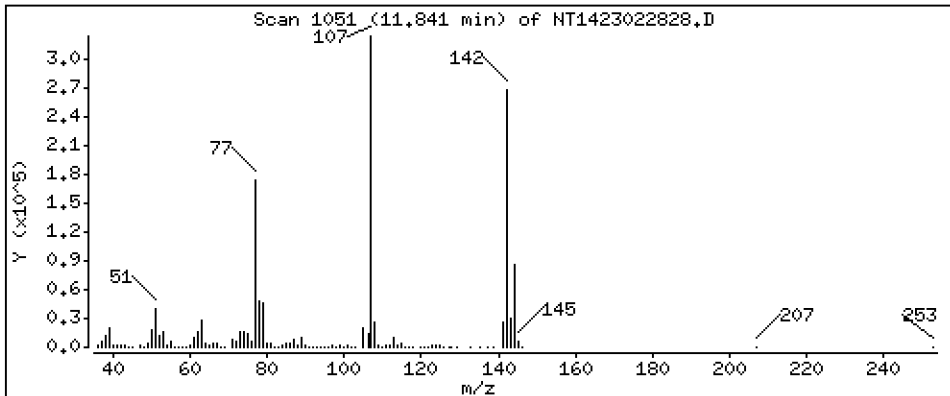
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 18,38 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

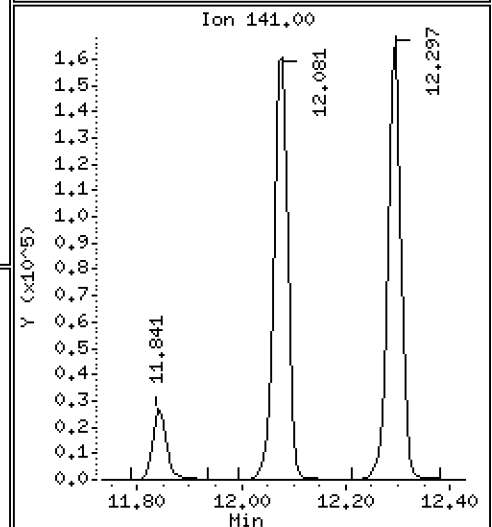
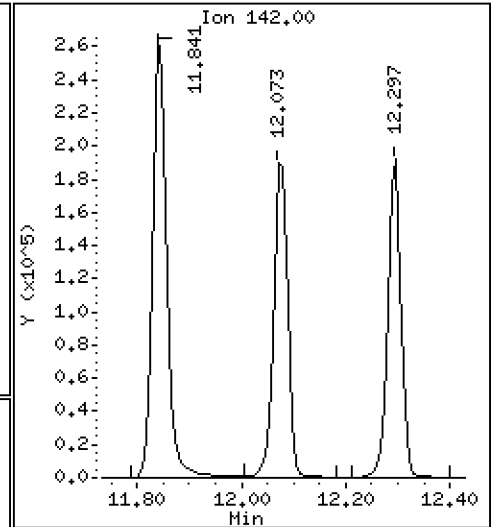
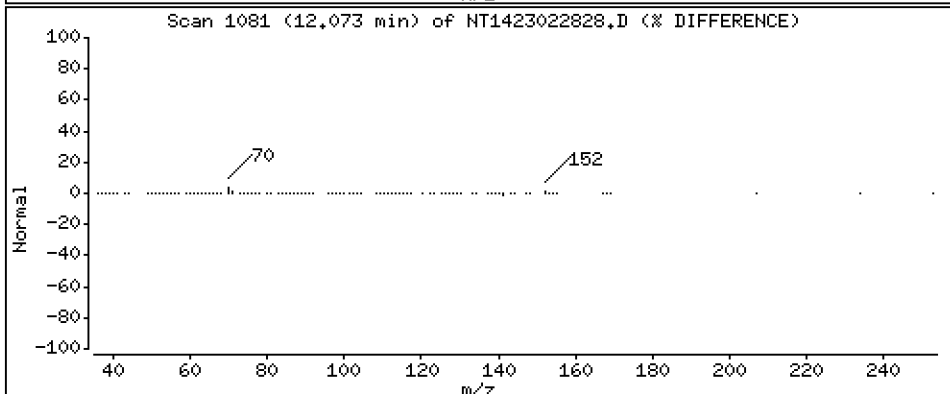
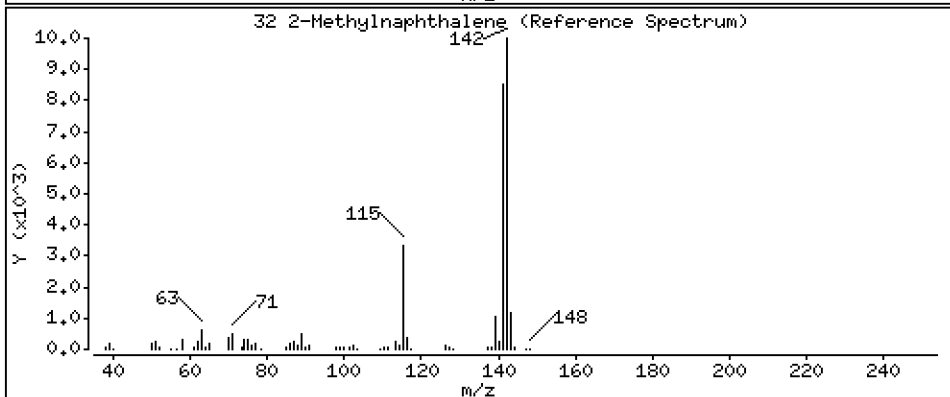
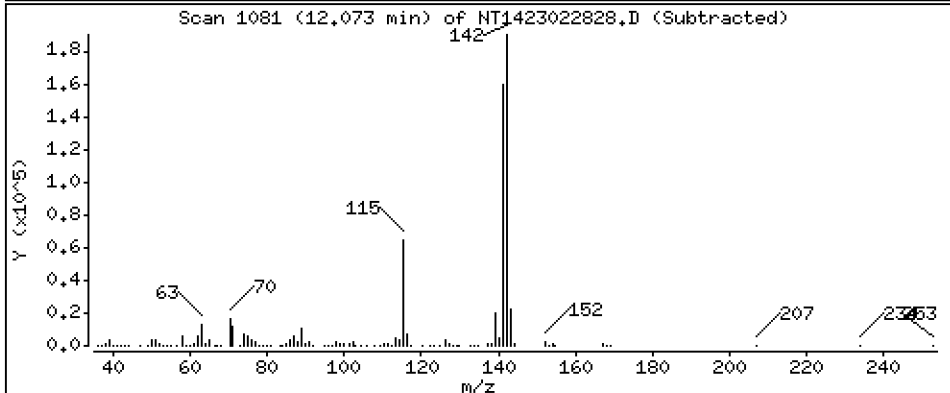
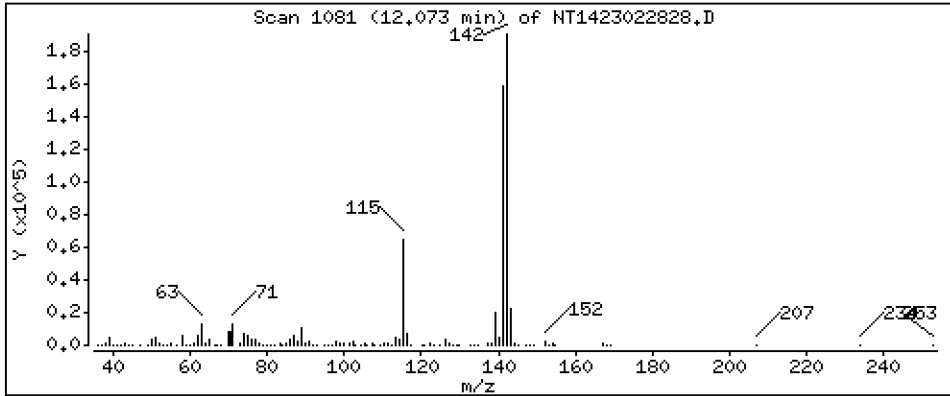
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,222 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

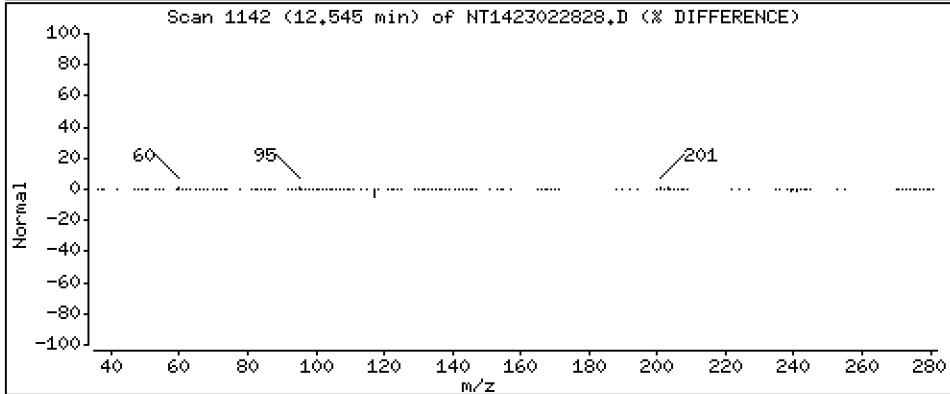
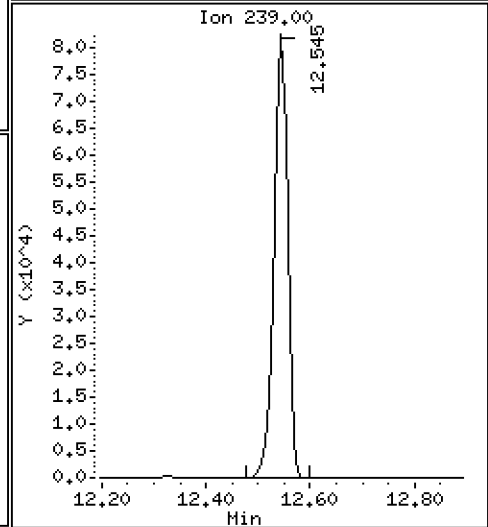
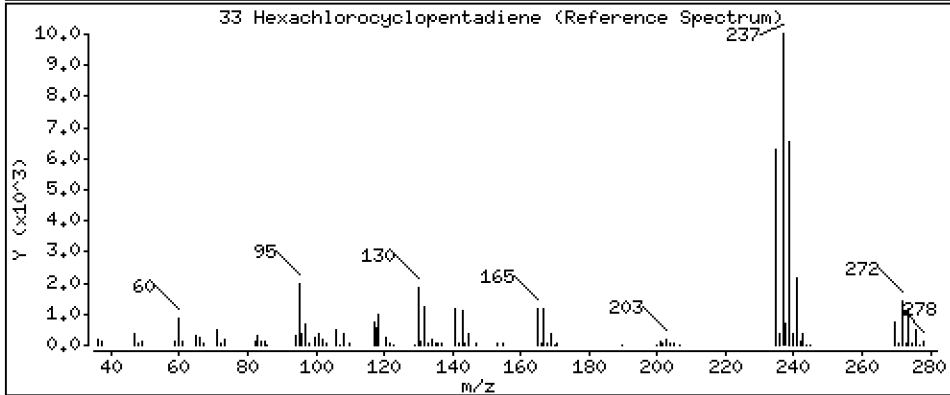
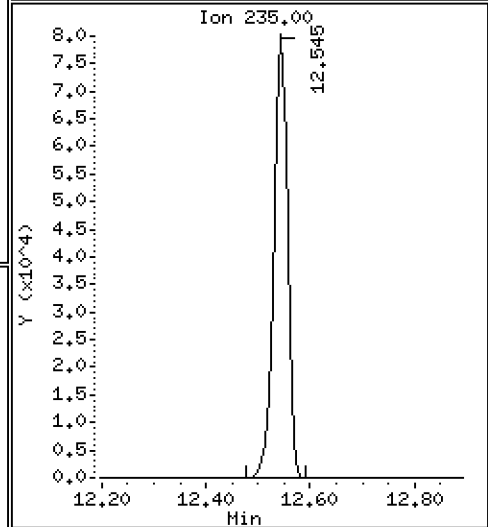
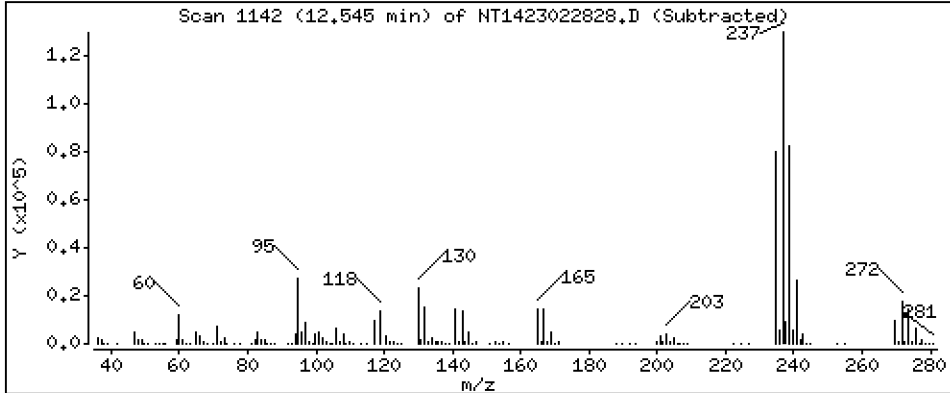
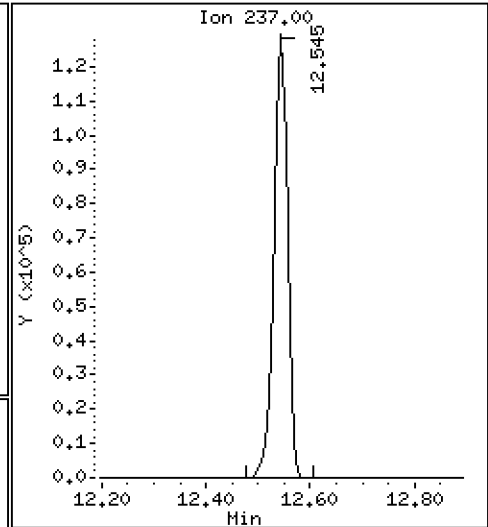
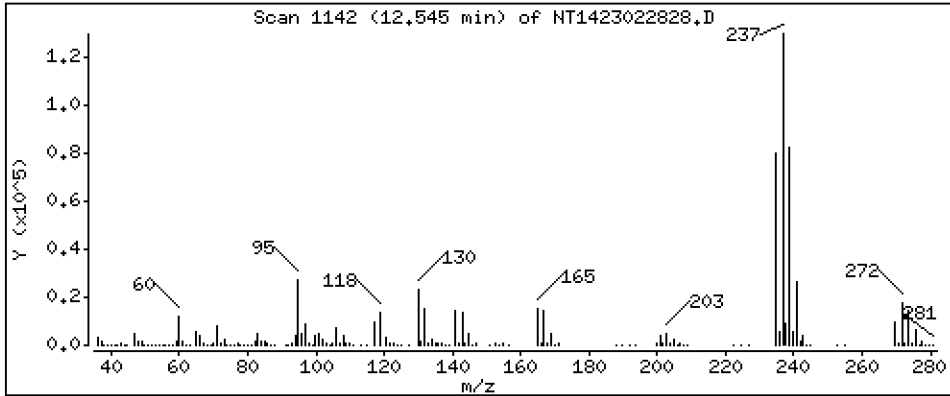
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 8,698 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

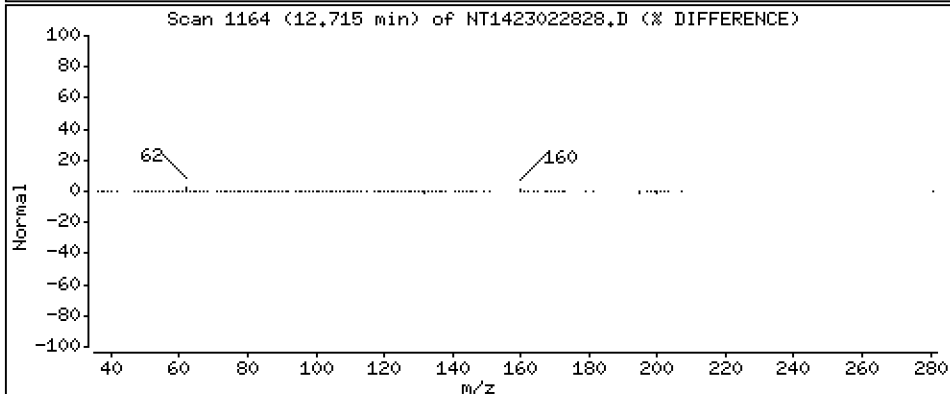
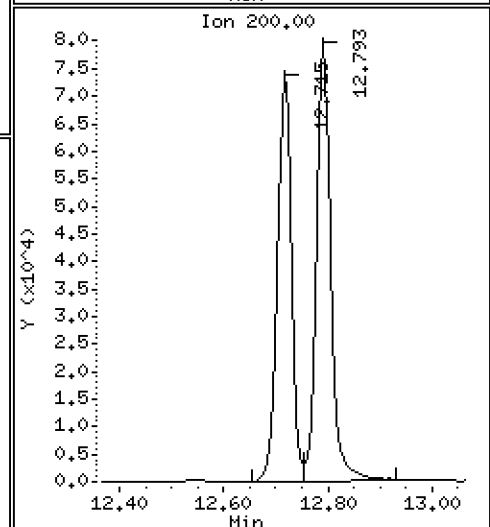
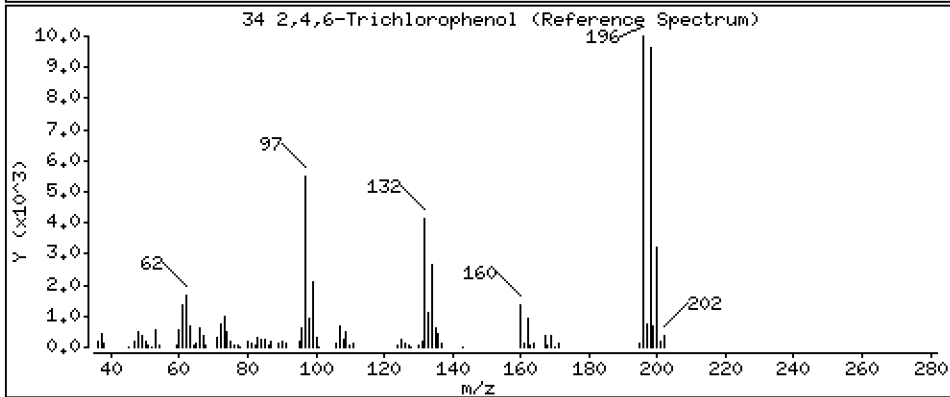
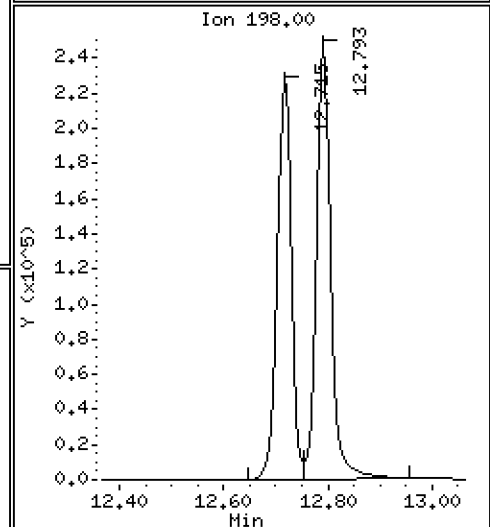
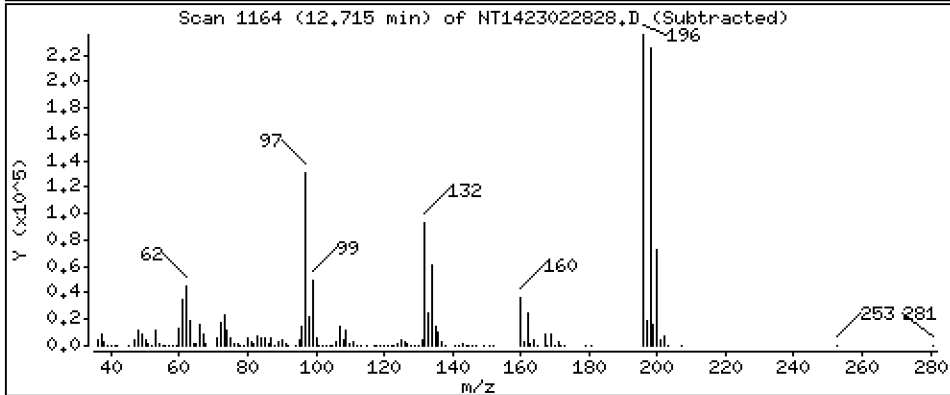
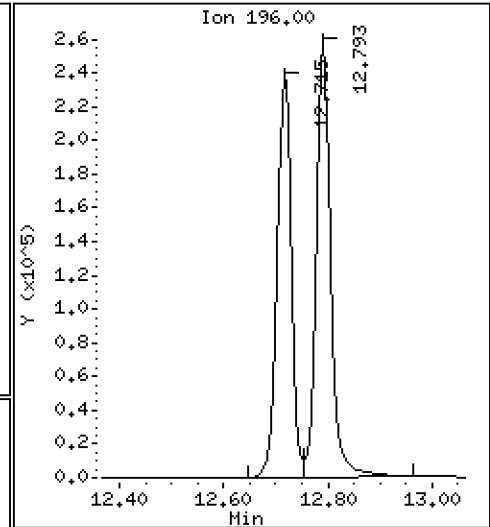
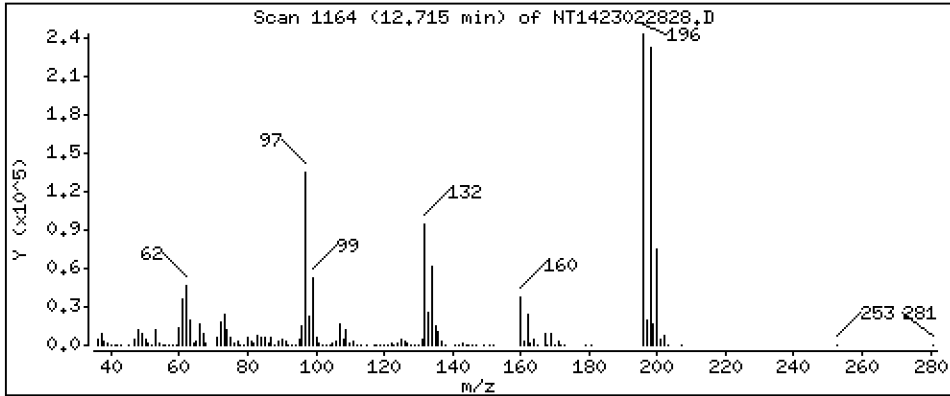
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 18,23 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

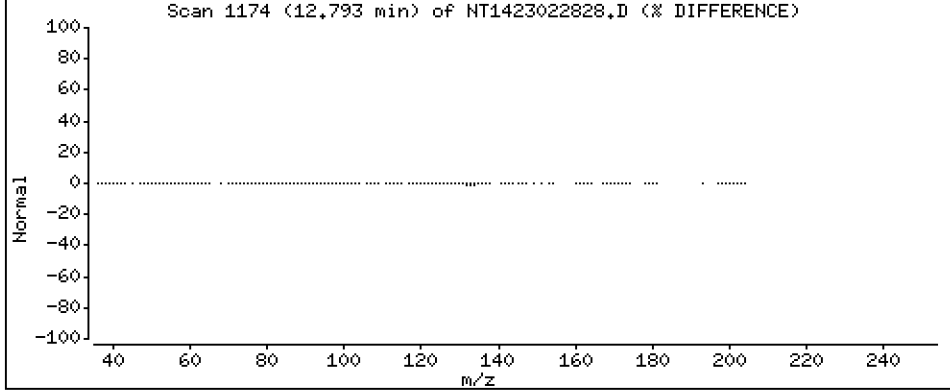
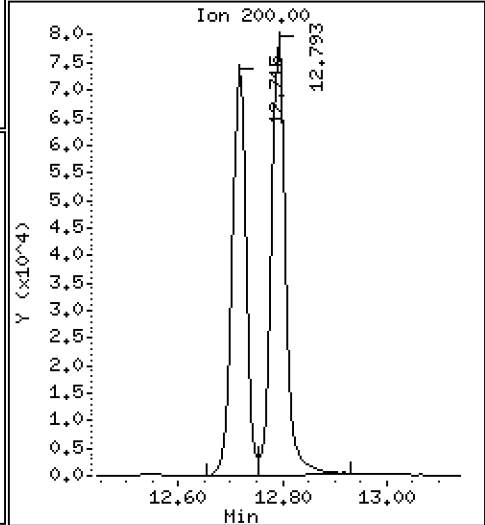
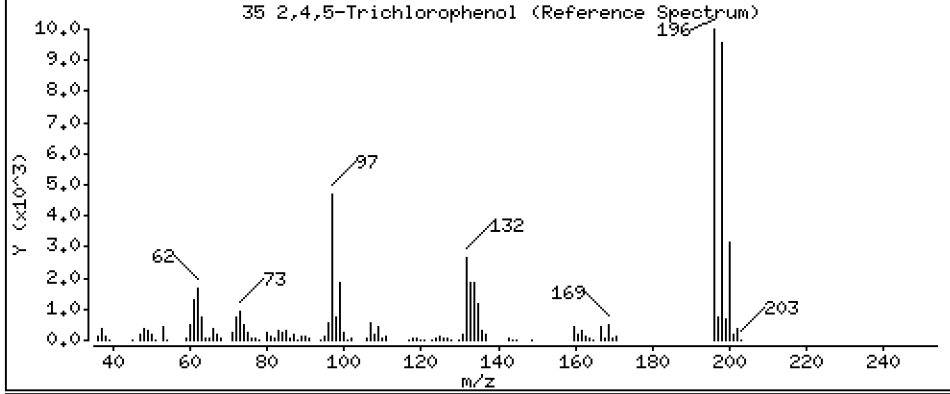
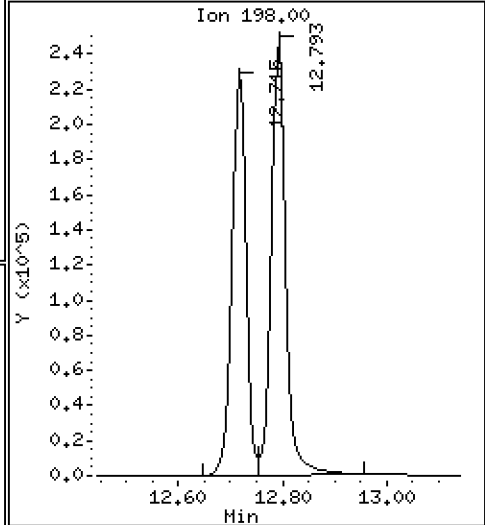
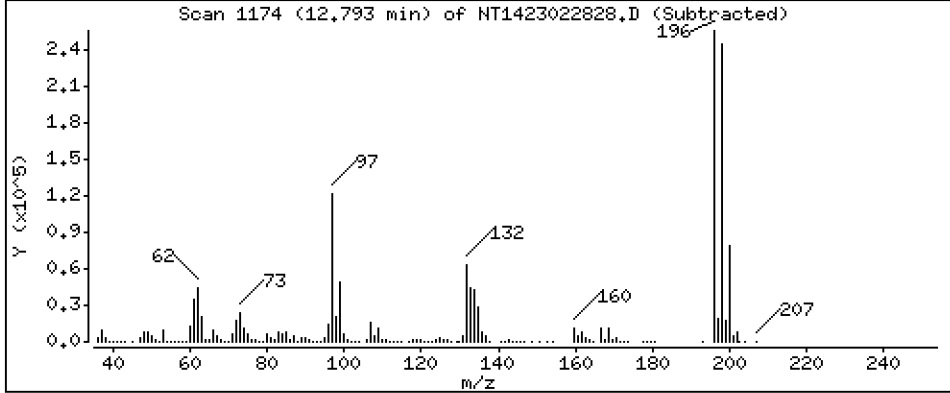
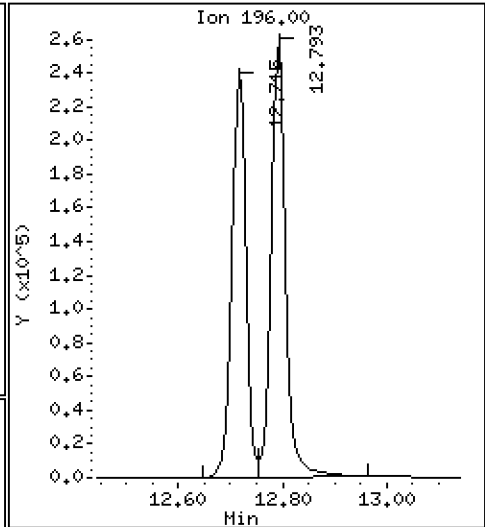
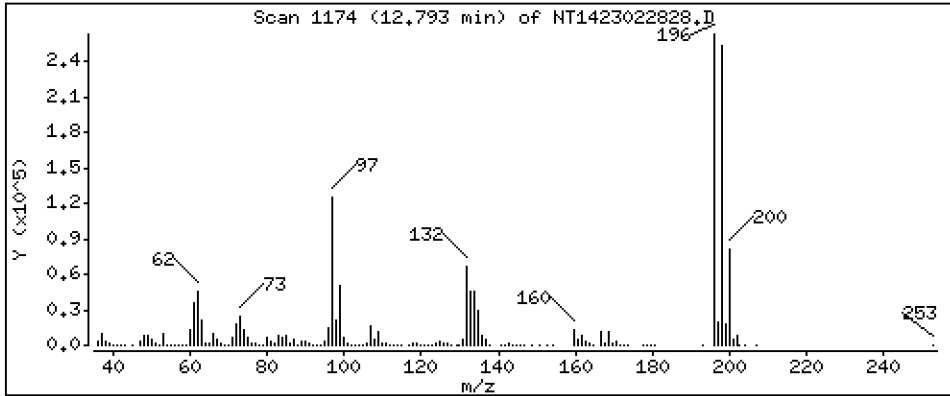
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 18,36 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

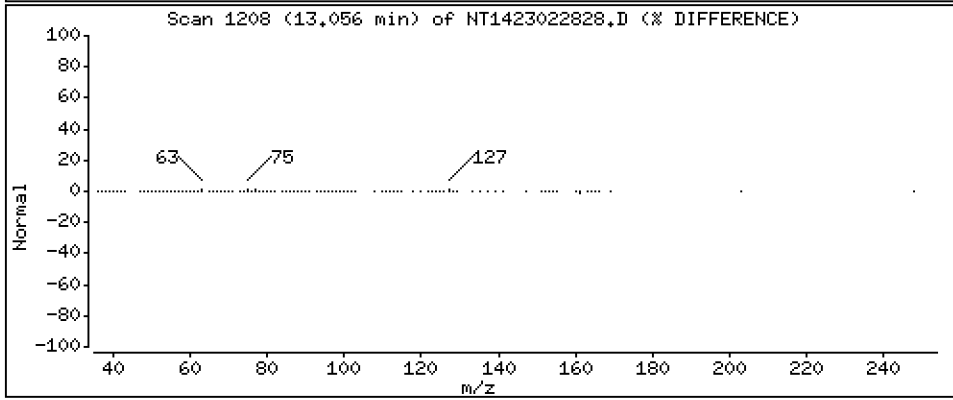
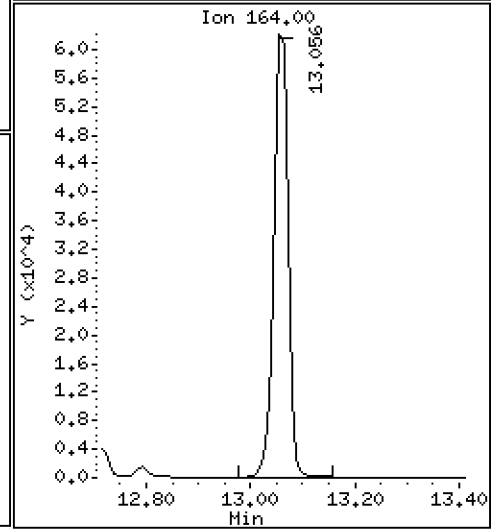
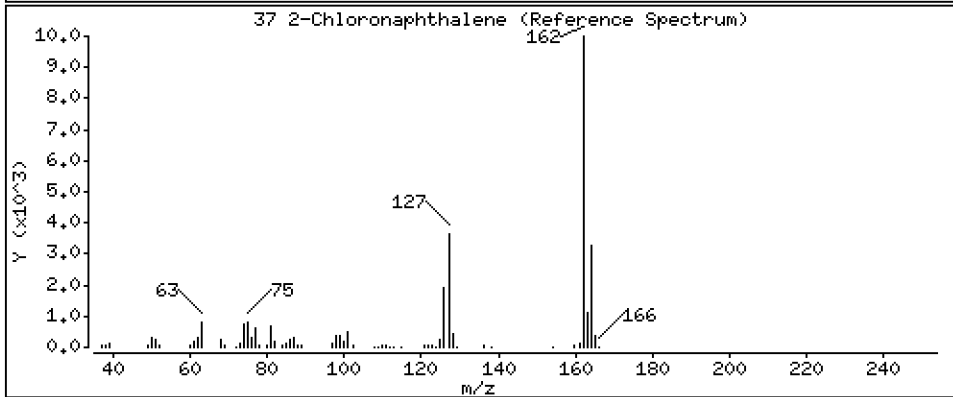
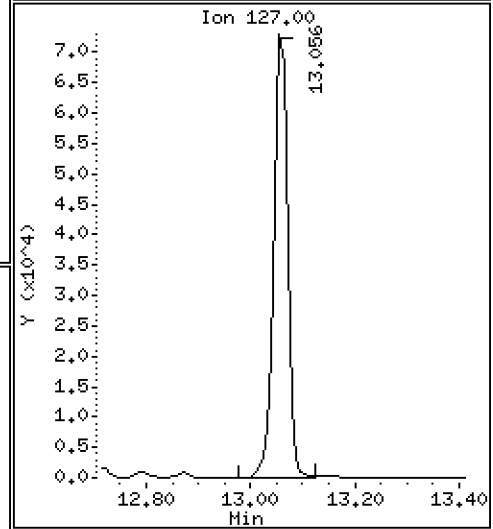
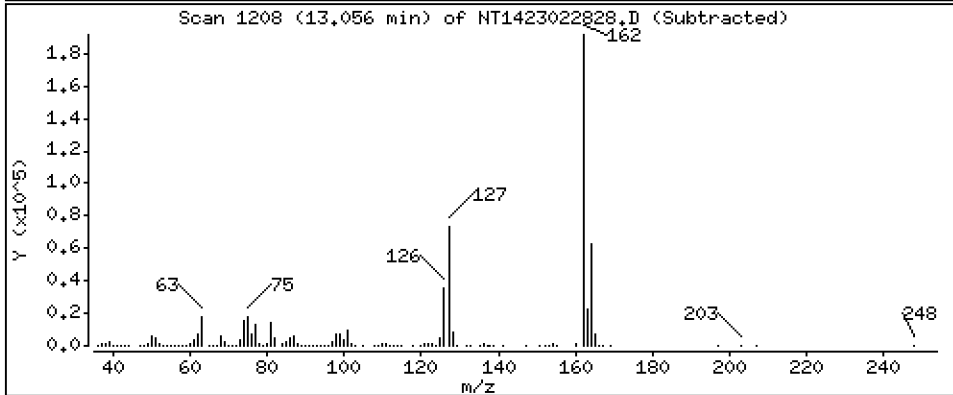
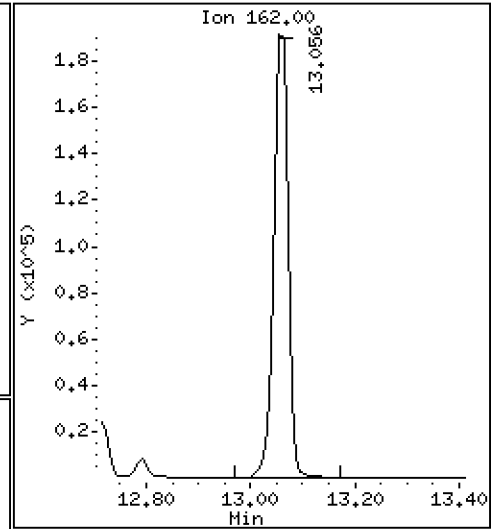
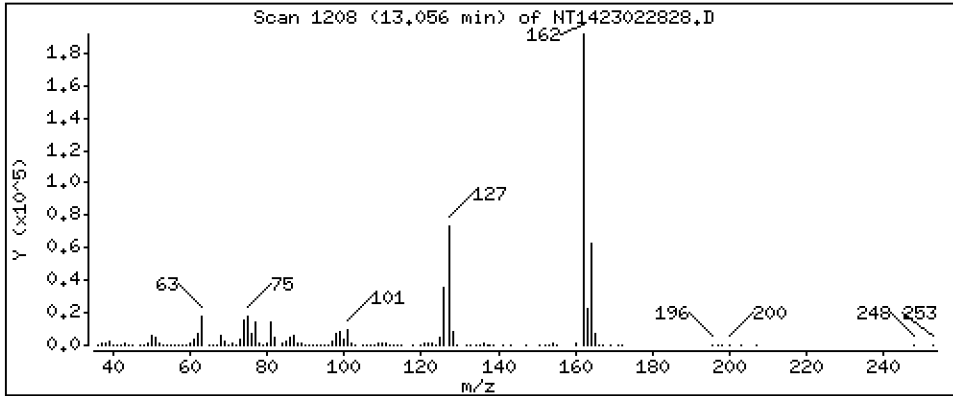
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,611 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

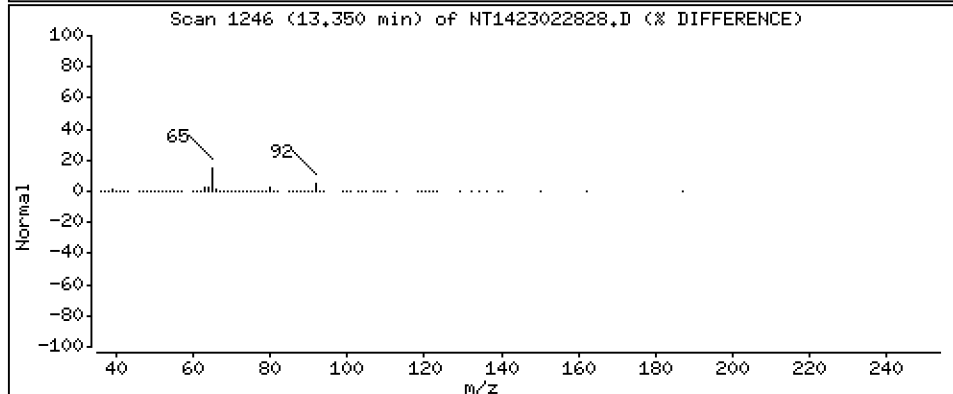
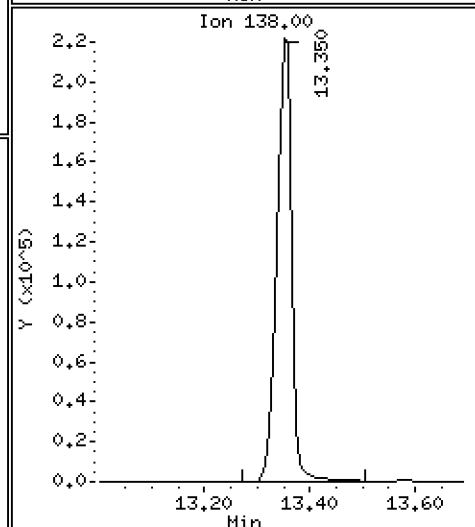
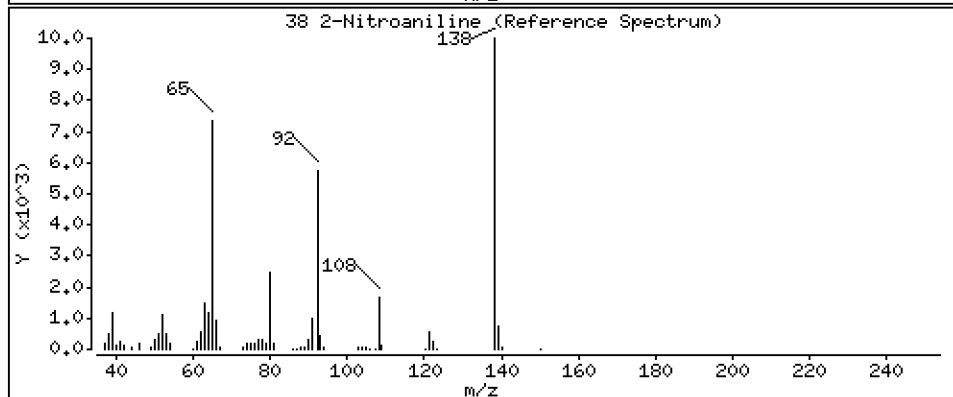
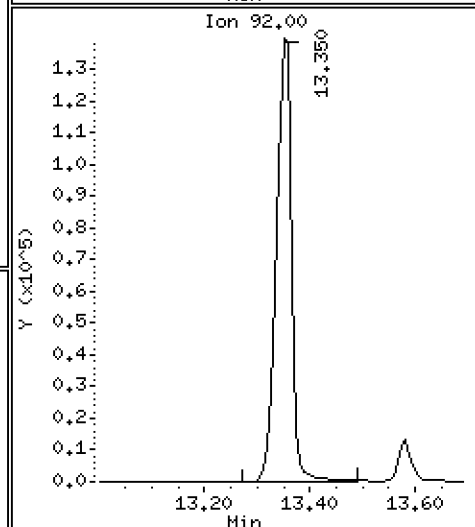
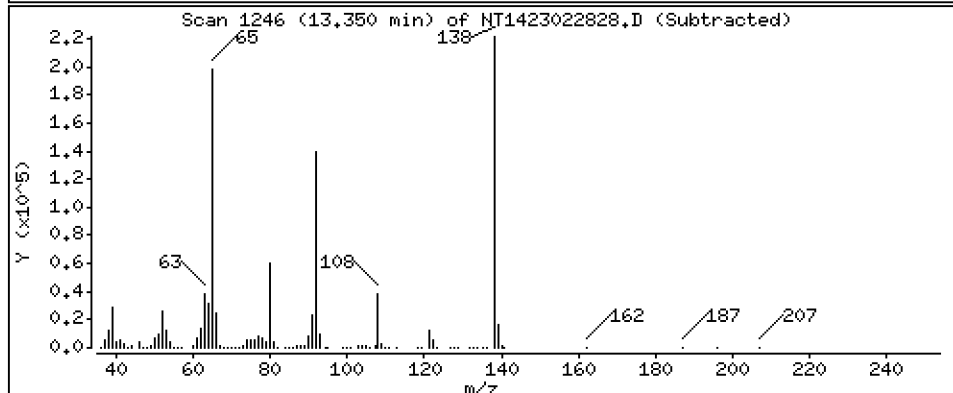
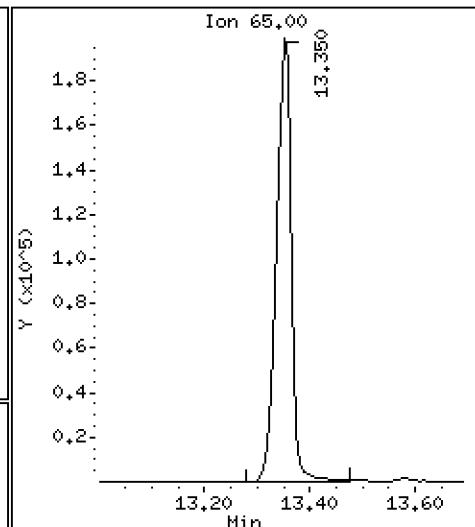
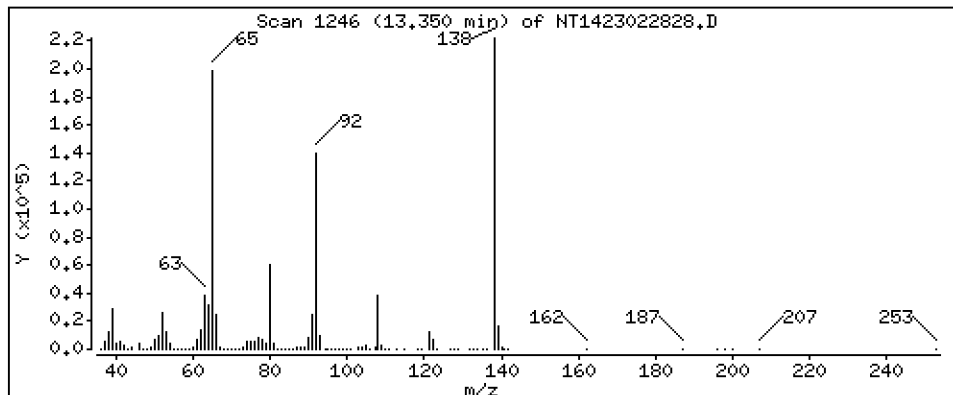
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 19,08 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

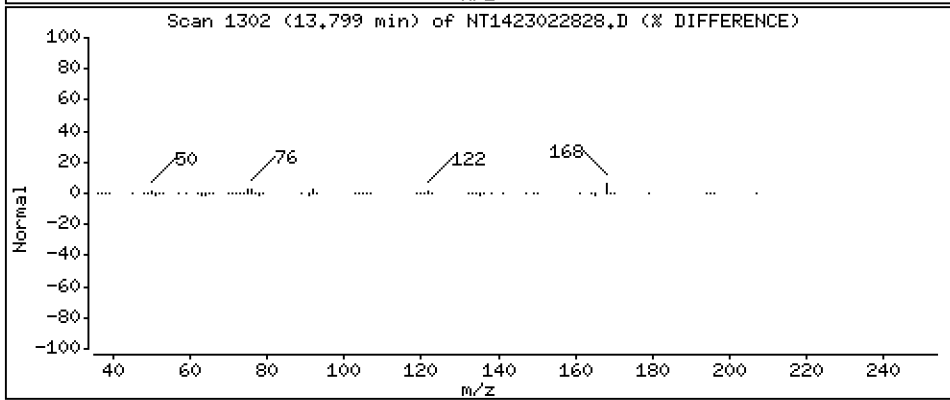
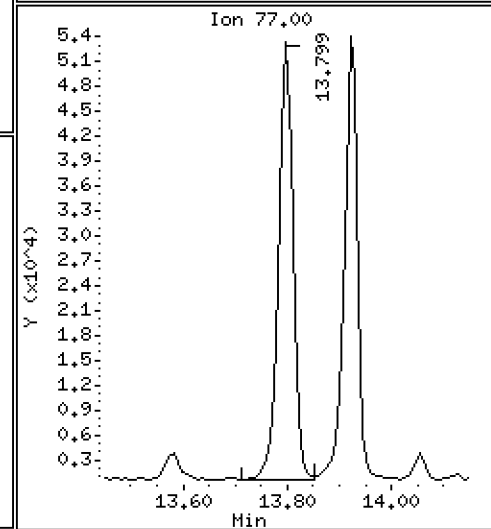
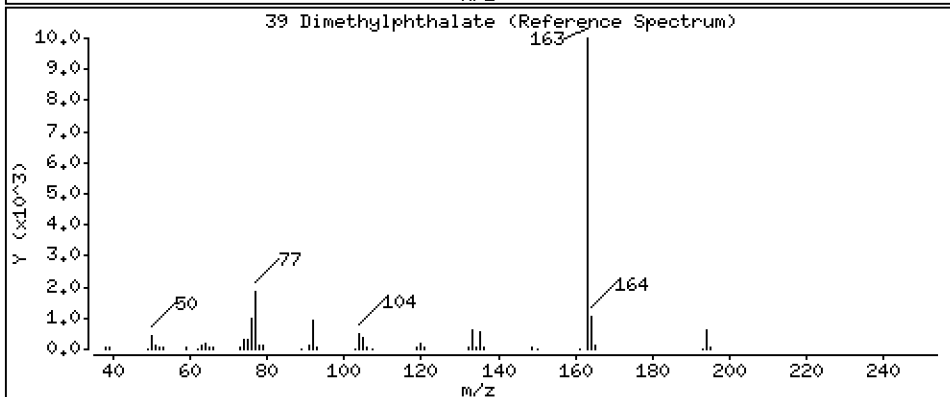
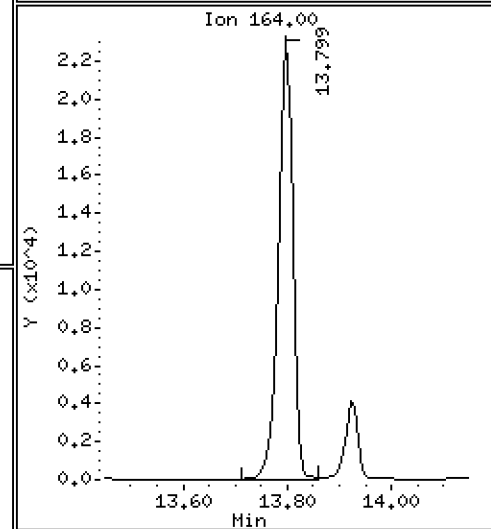
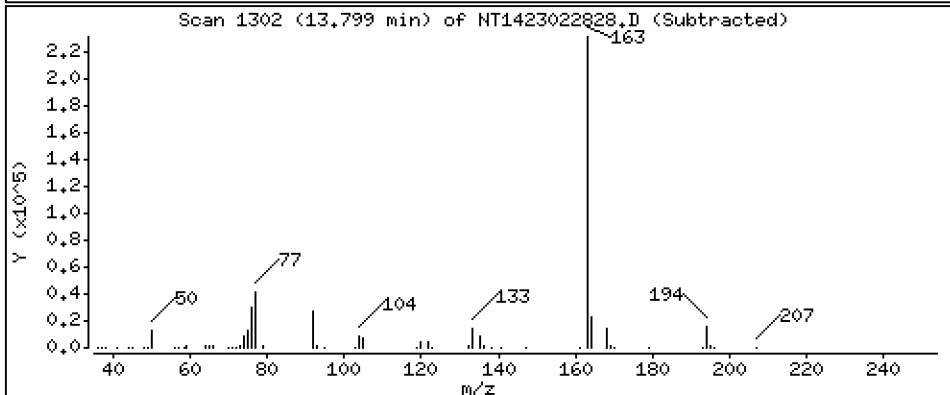
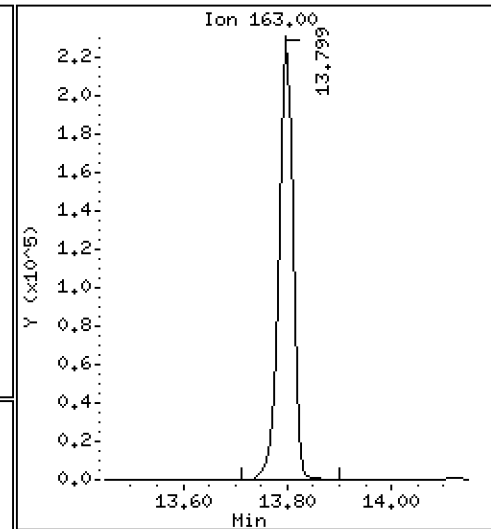
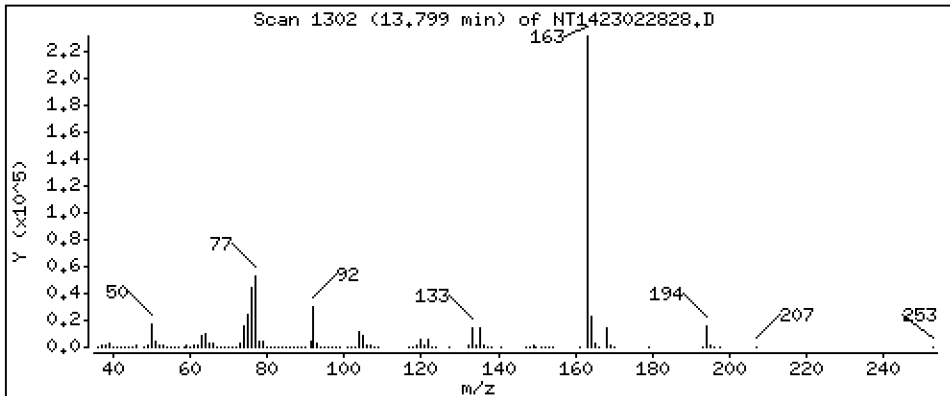
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,393 ug/mL





Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

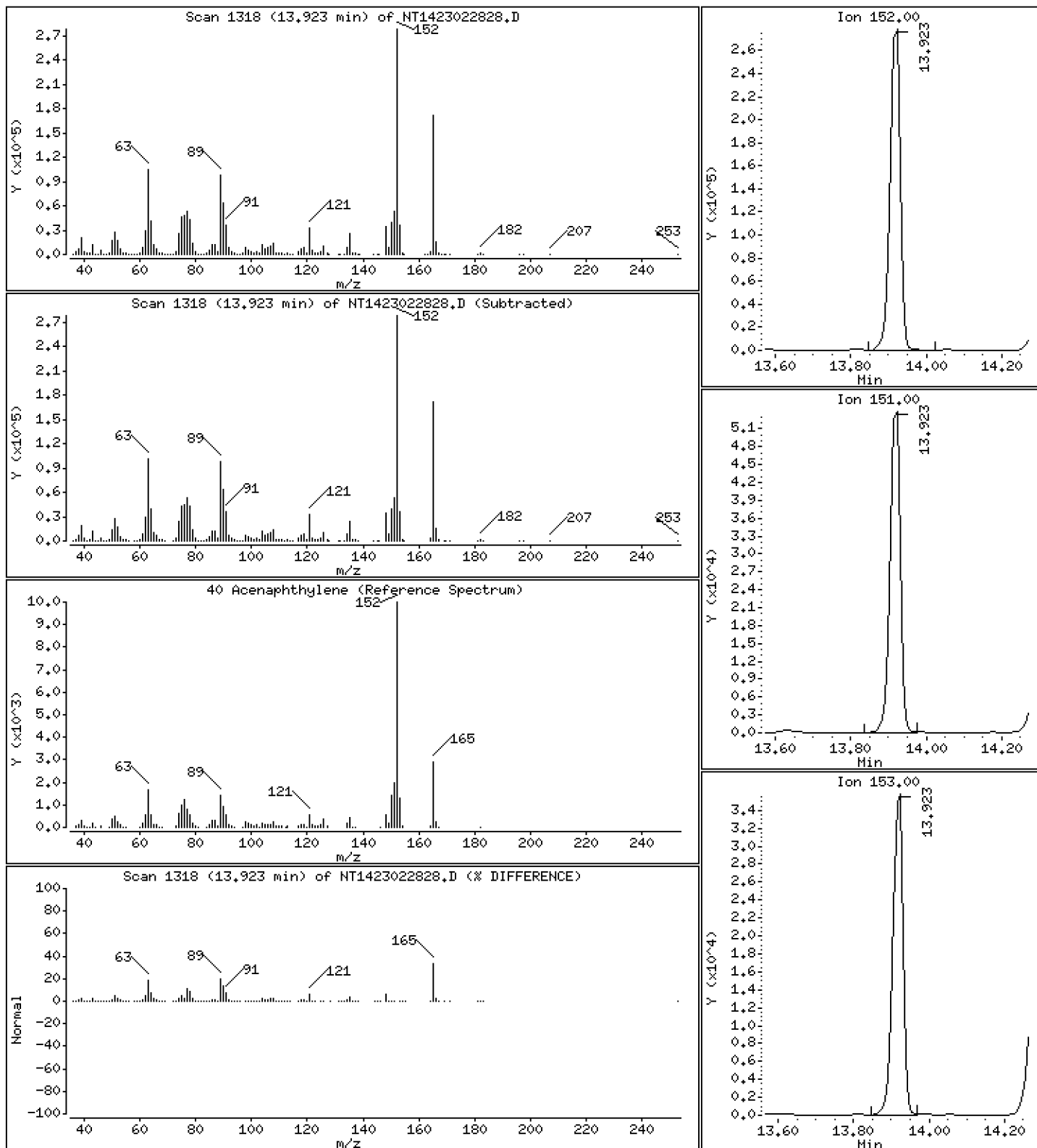
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,468 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

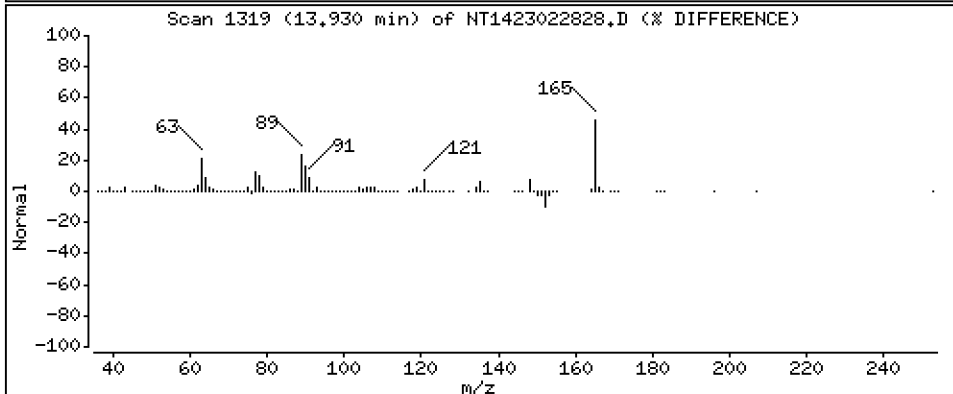
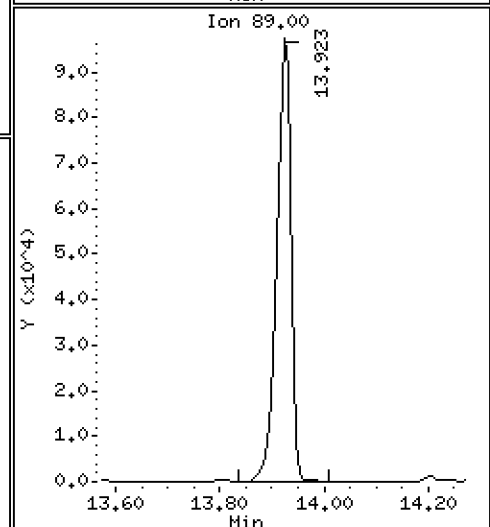
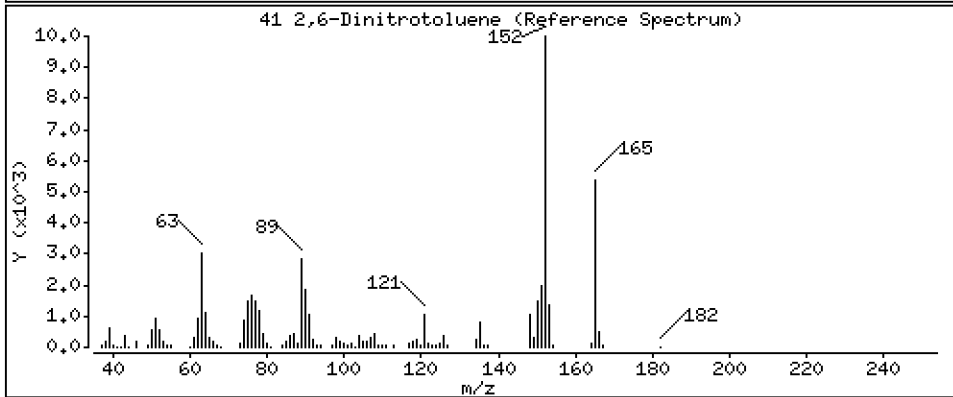
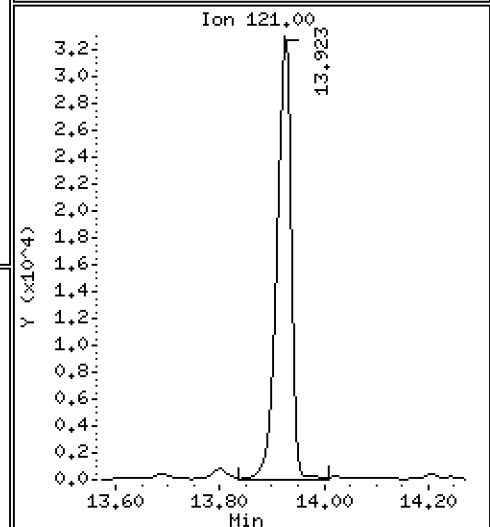
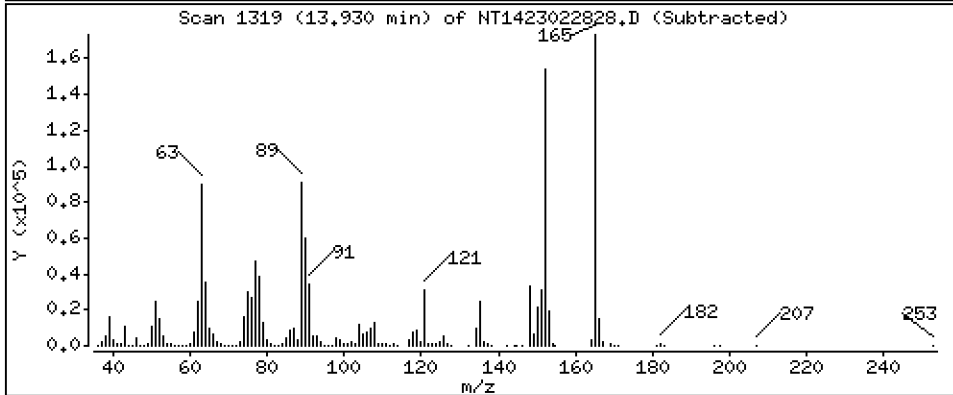
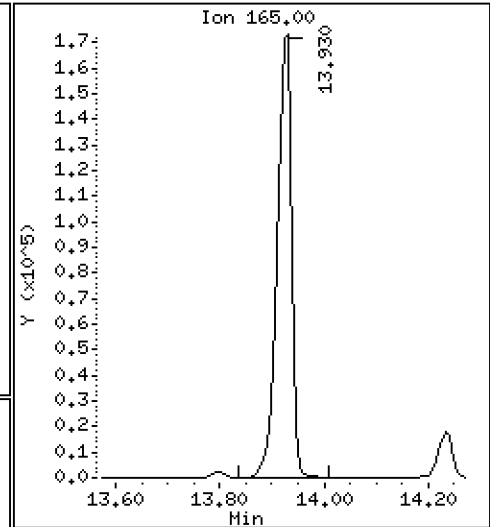
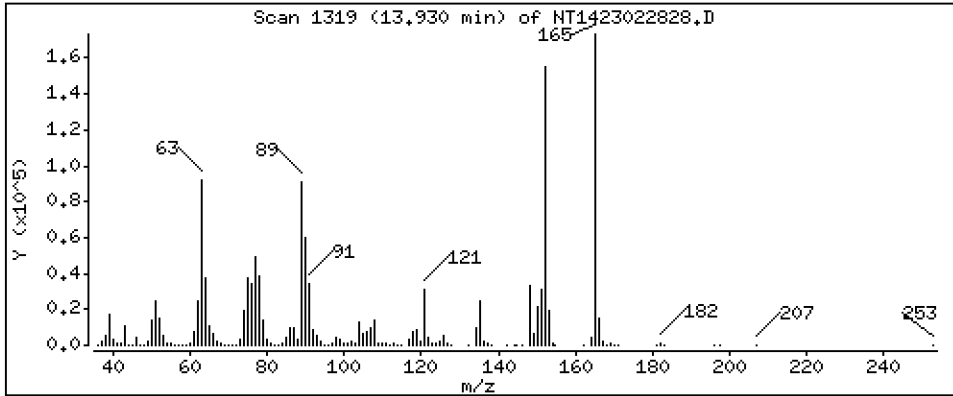
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 17,78 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

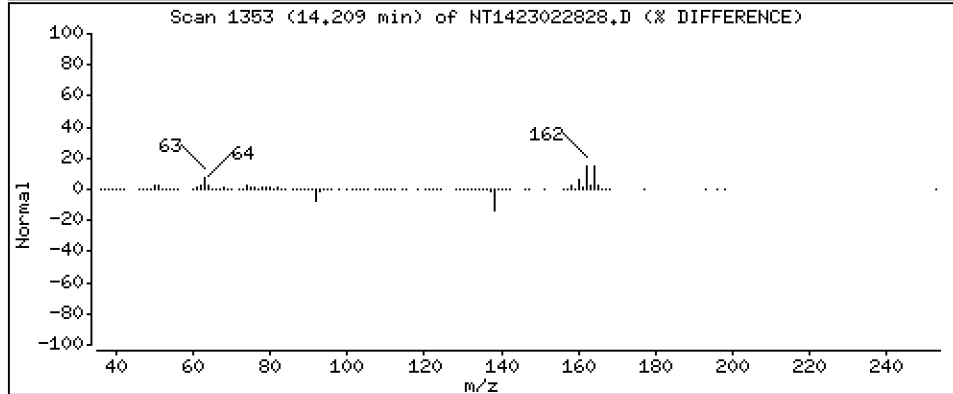
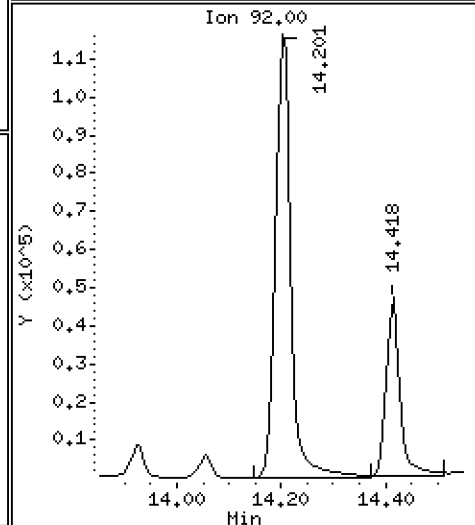
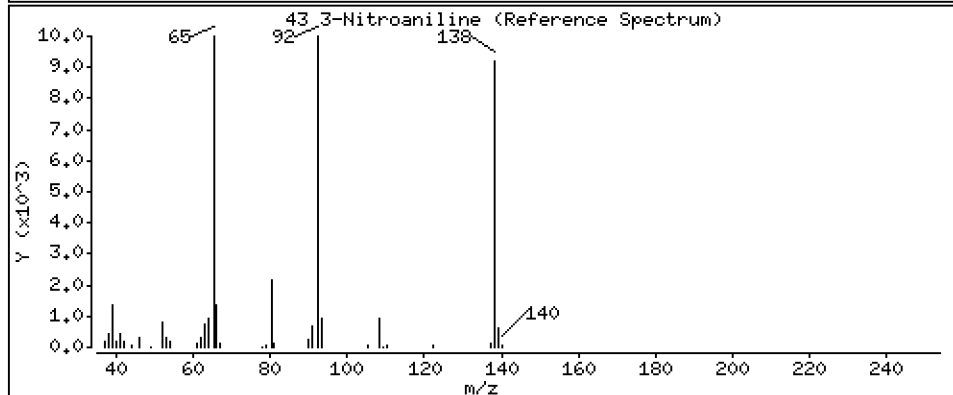
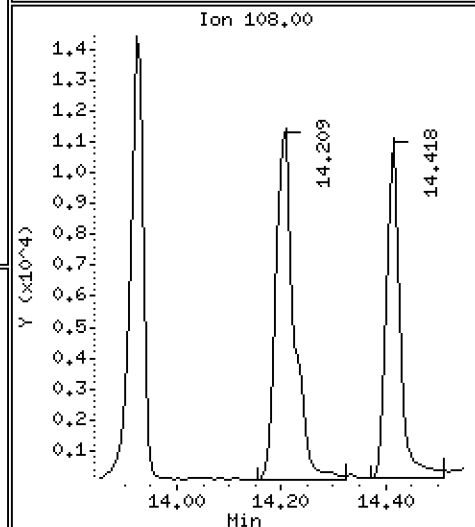
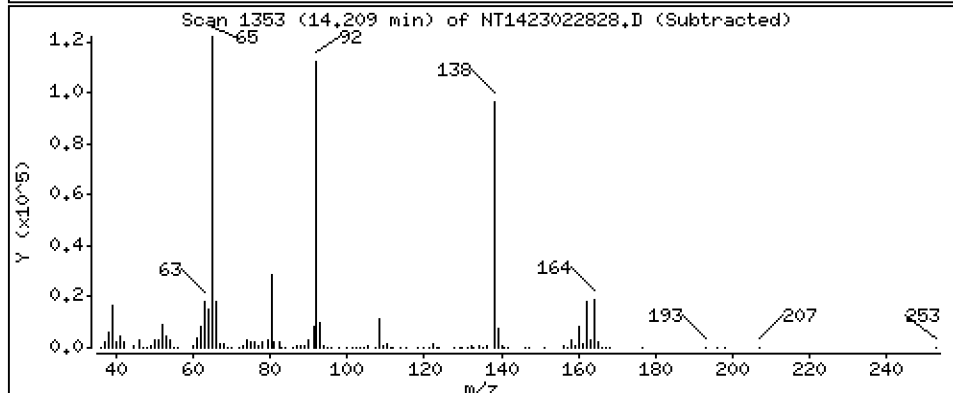
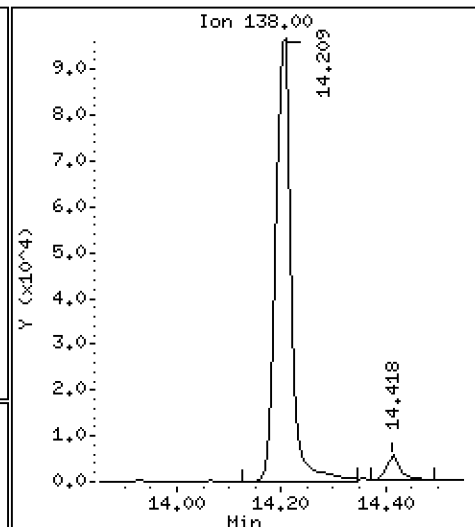
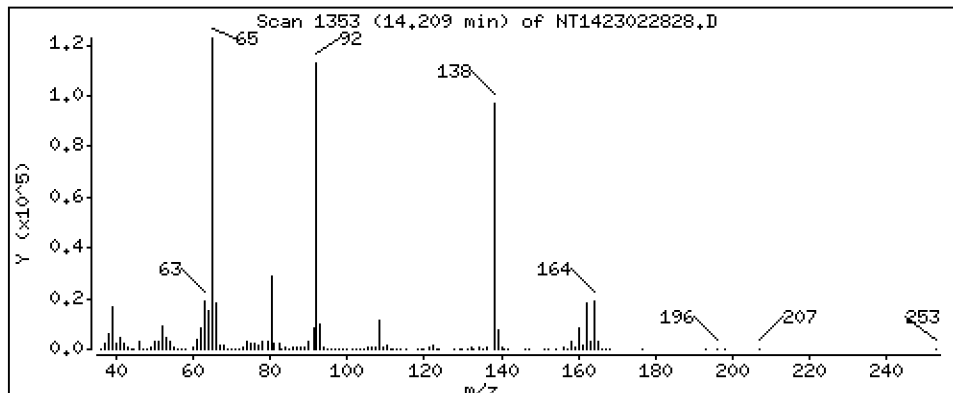
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 10,58 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

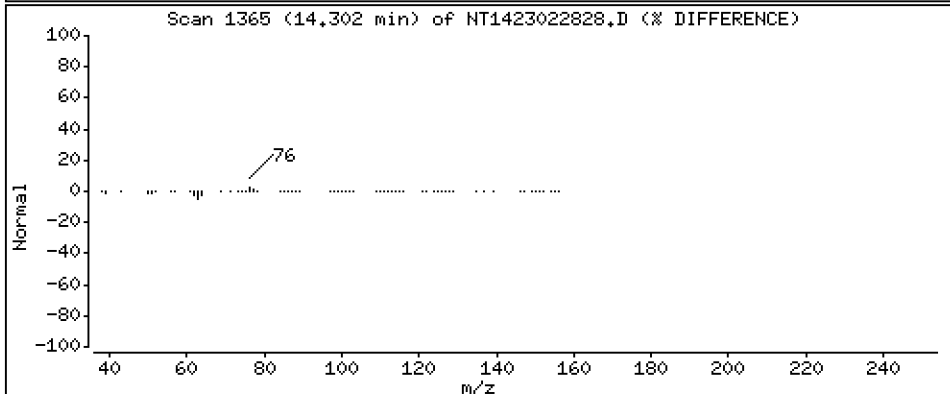
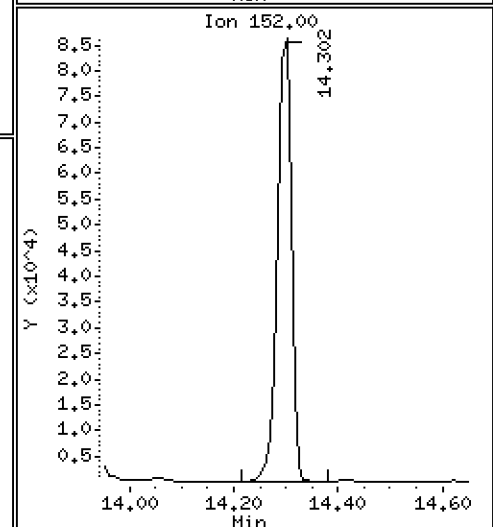
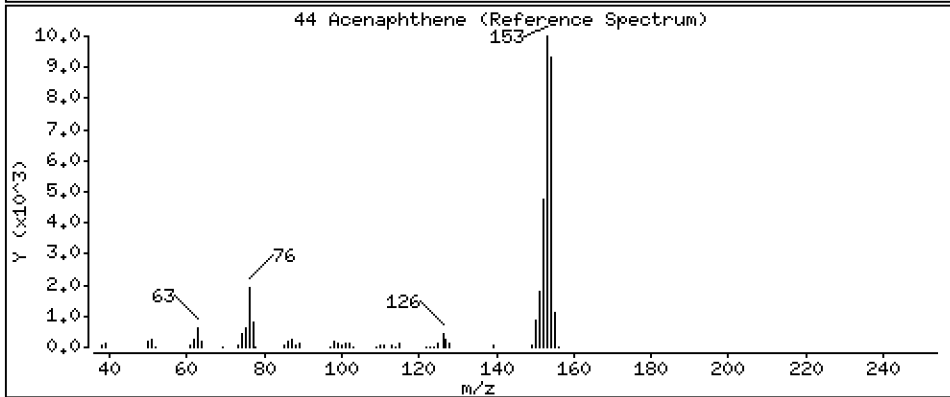
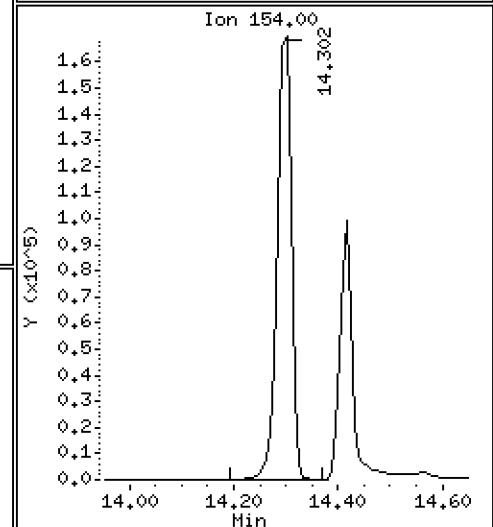
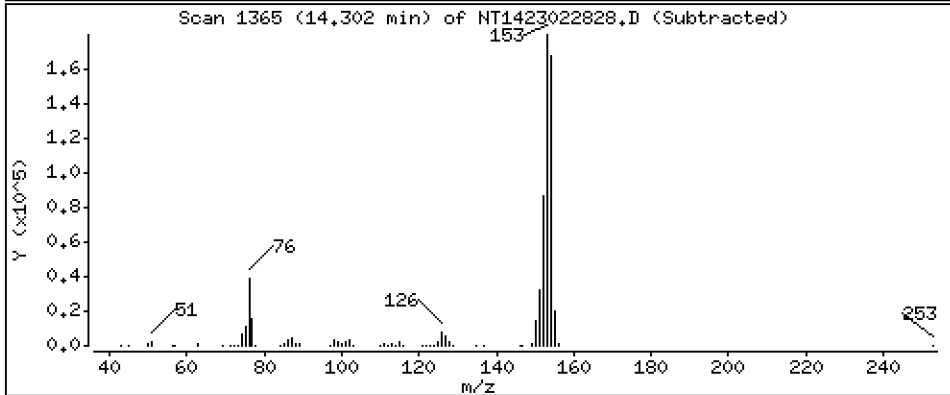
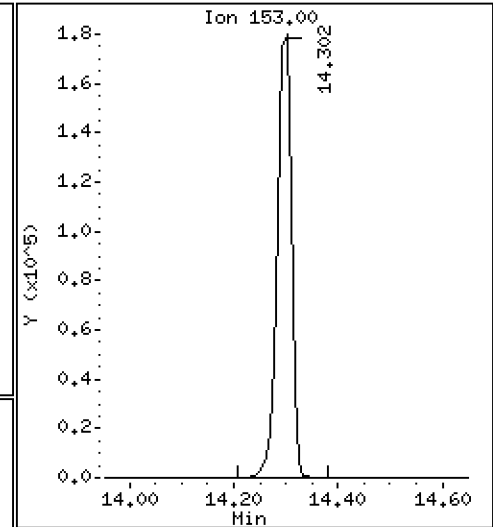
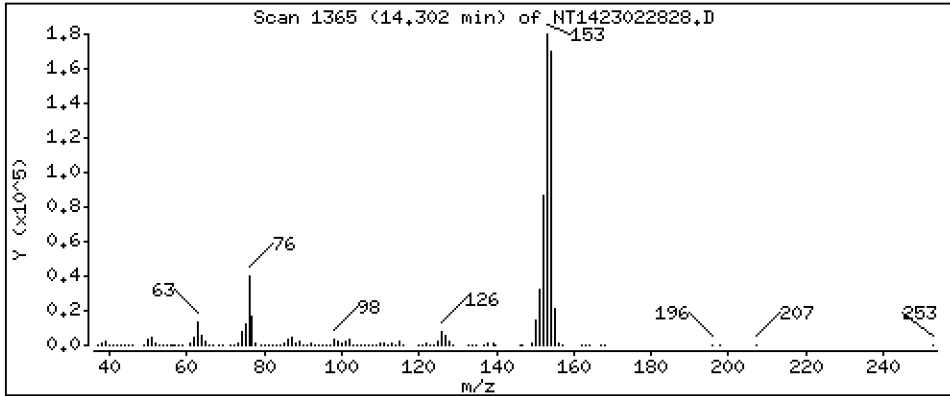
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,578 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

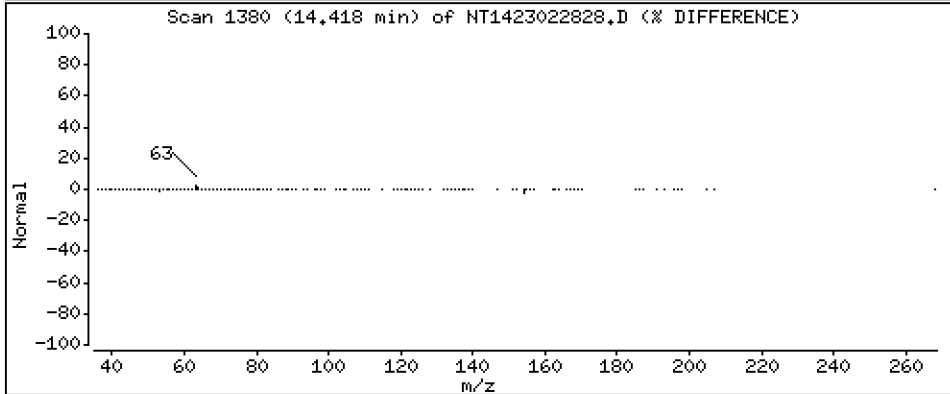
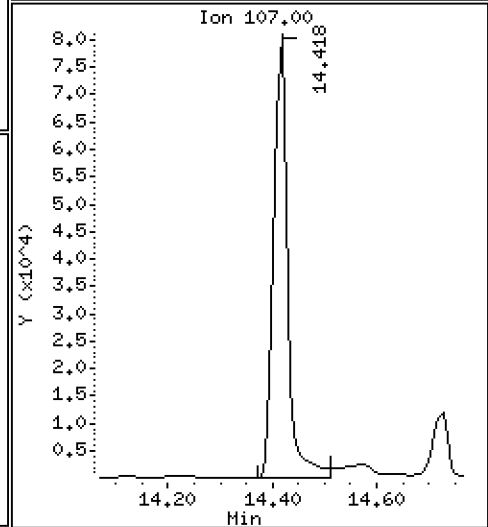
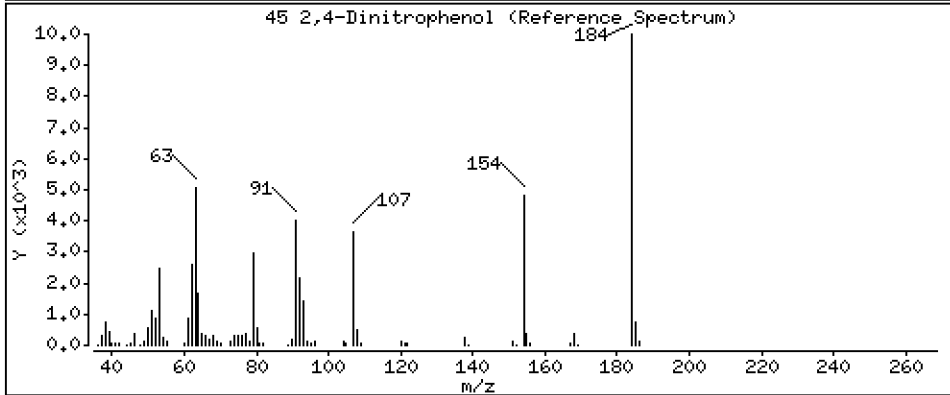
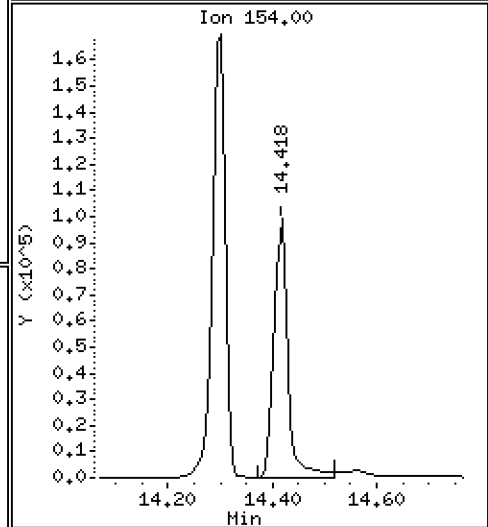
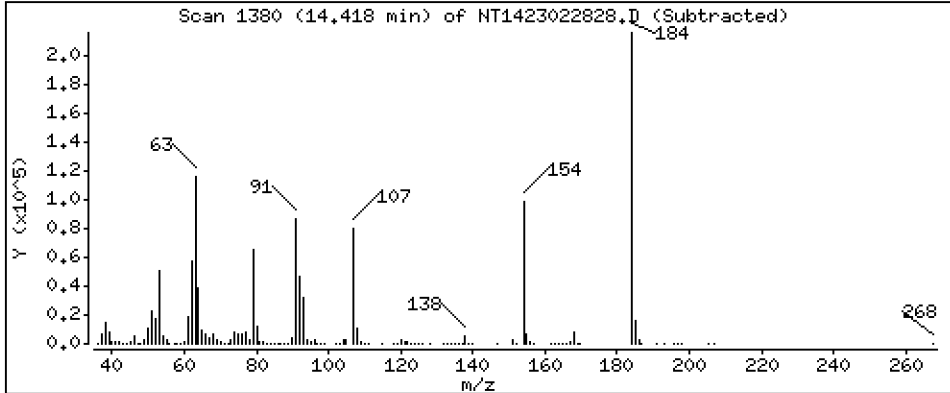
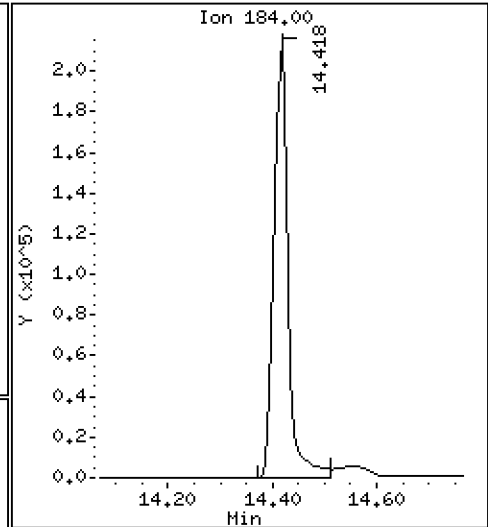
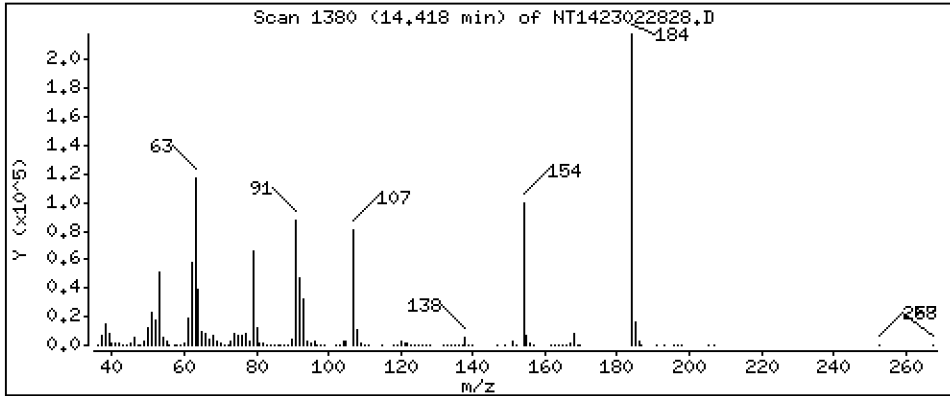
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 31,26 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

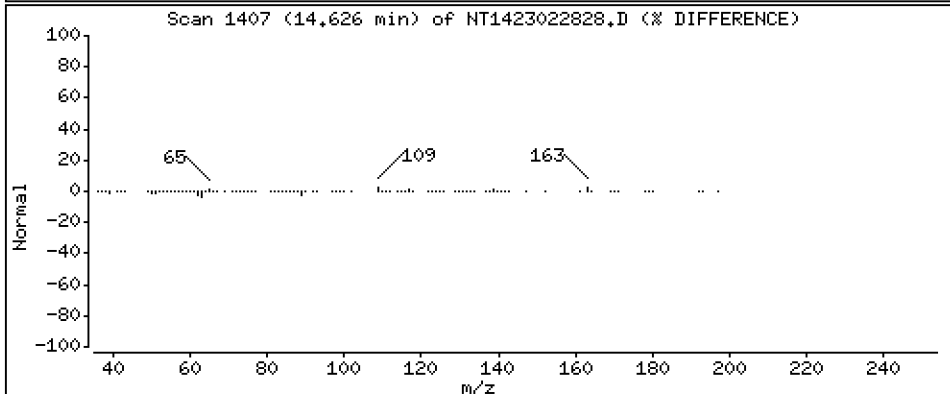
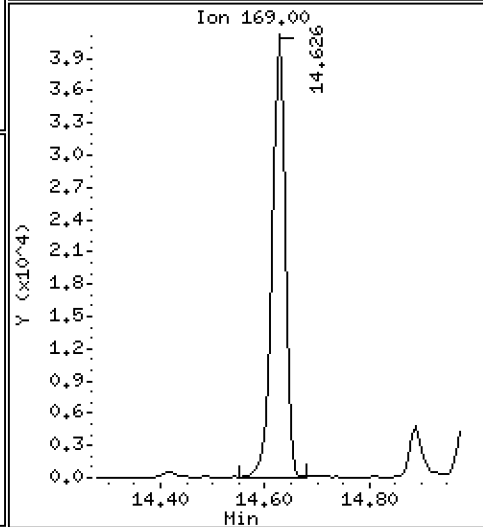
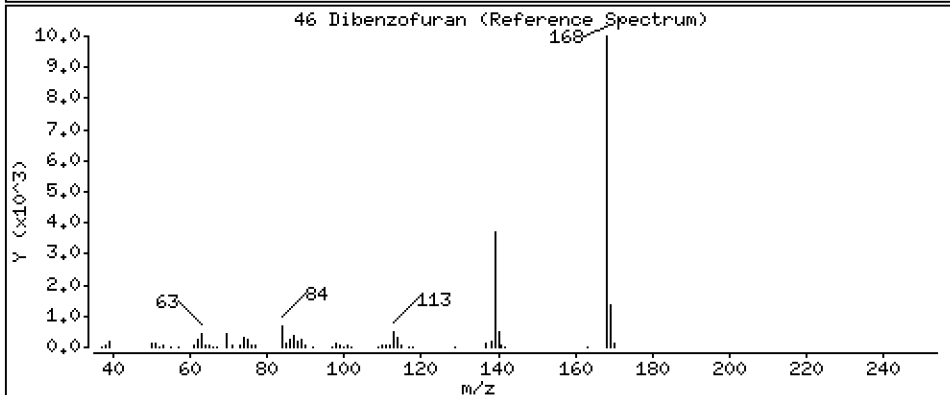
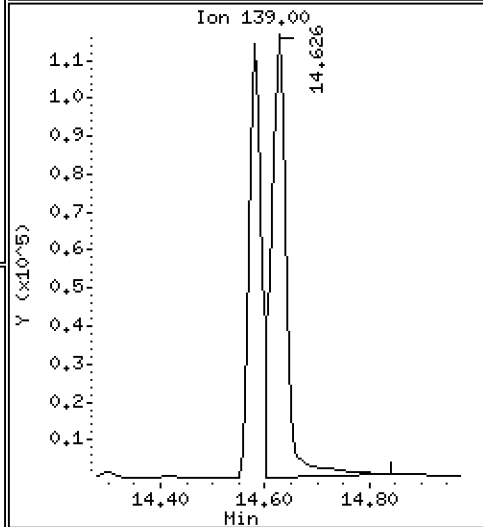
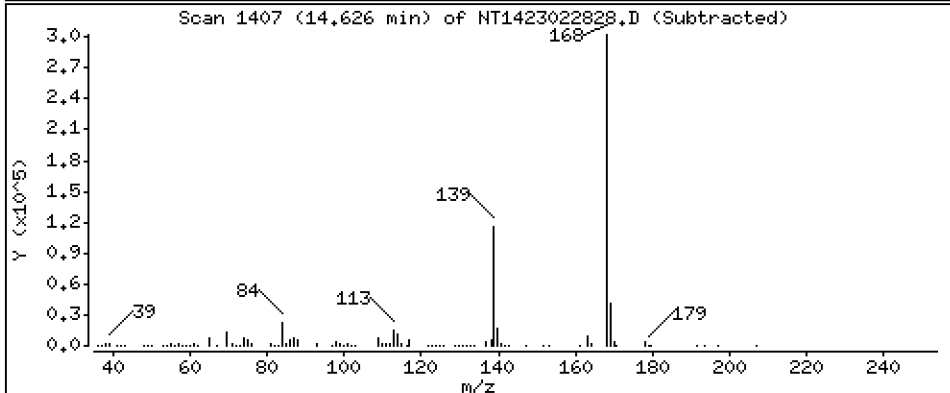
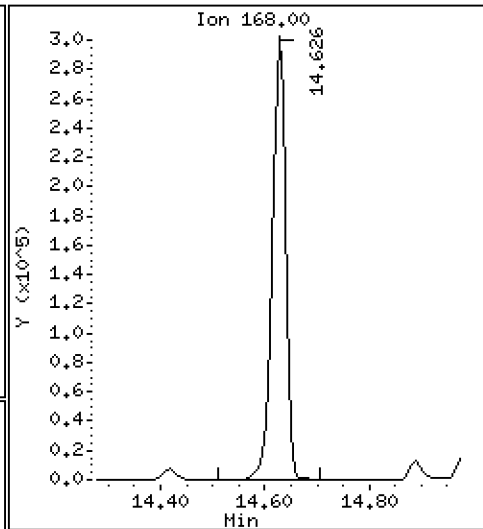
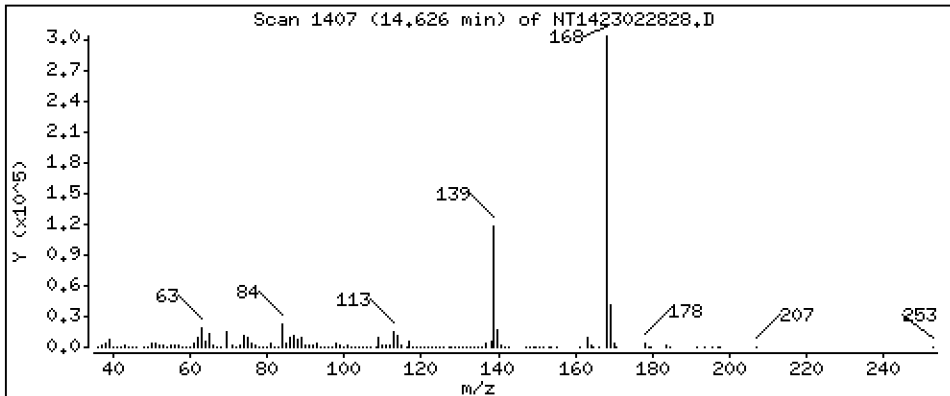
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,517 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

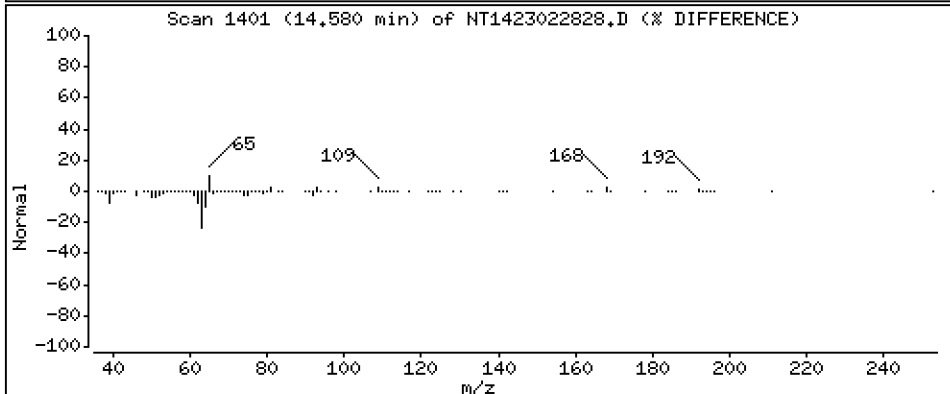
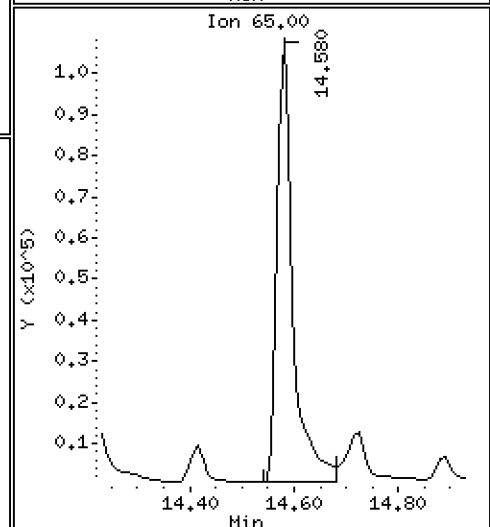
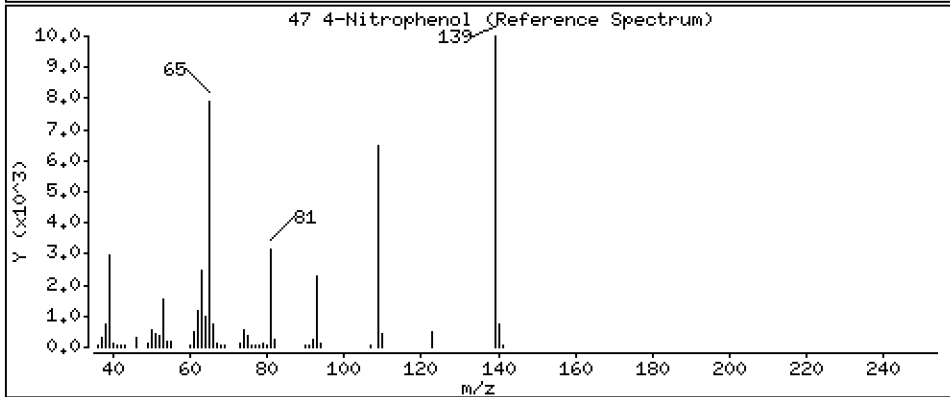
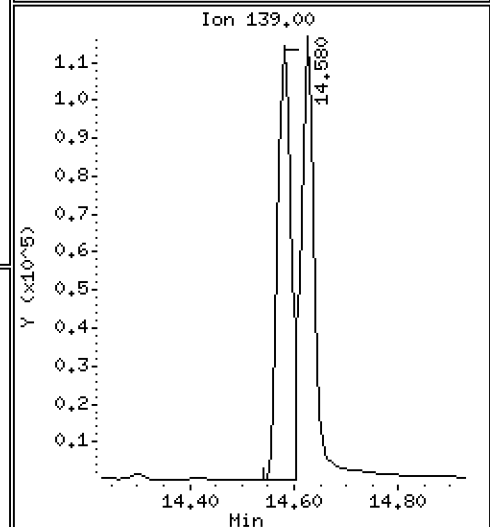
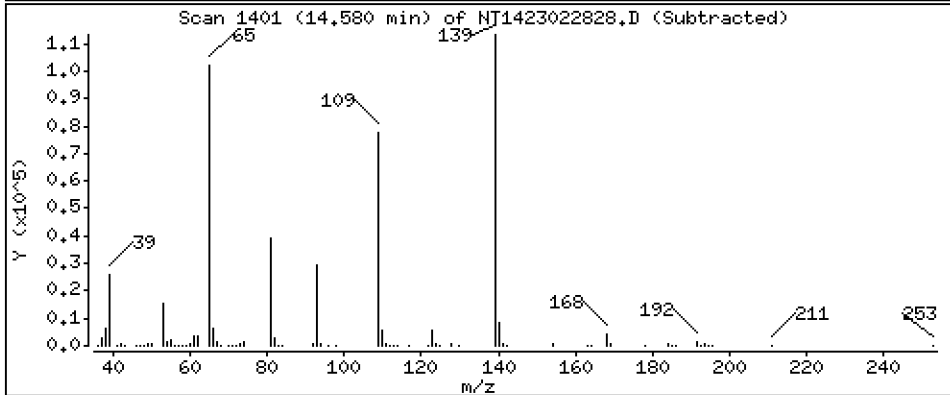
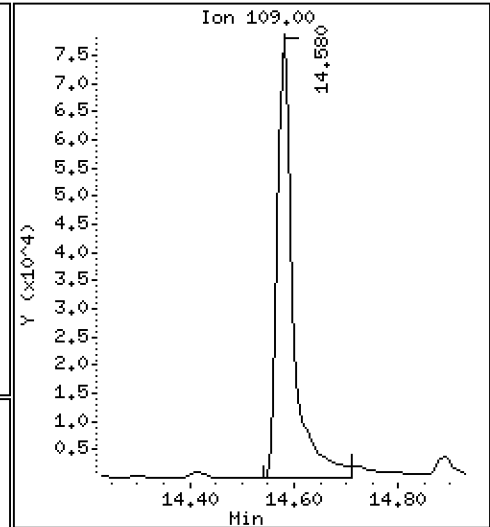
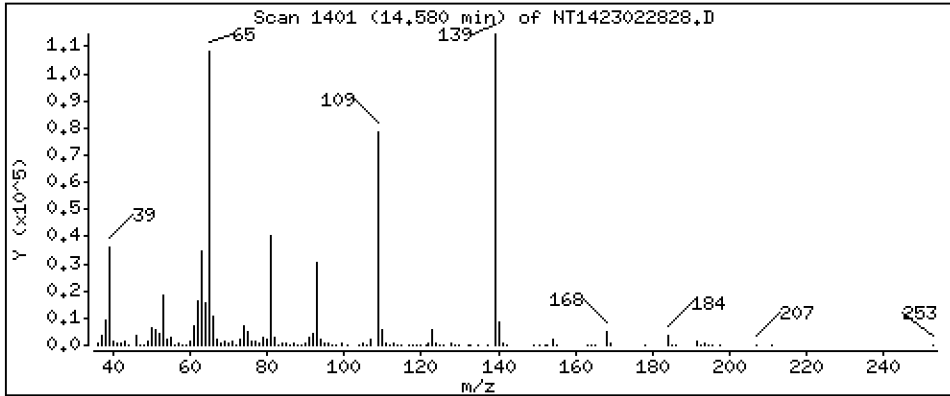
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 16,78 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

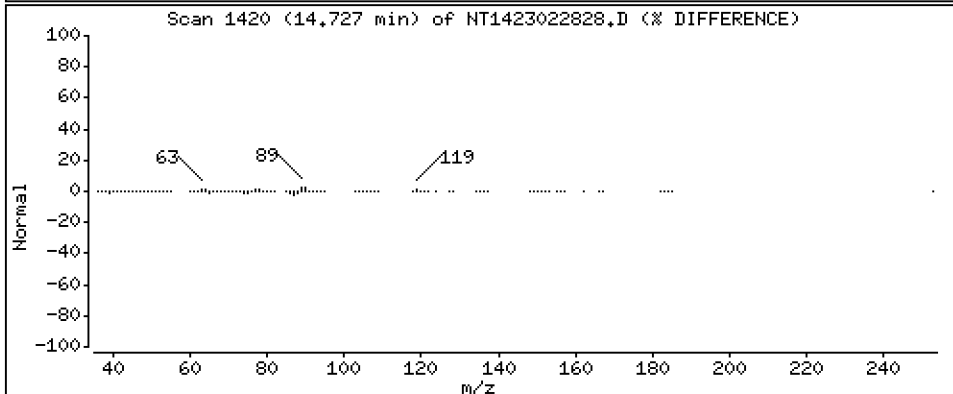
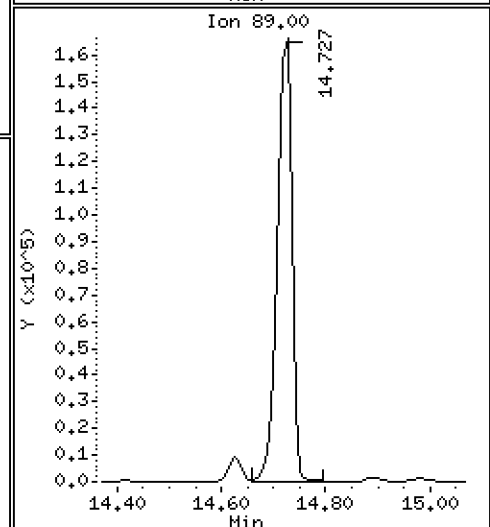
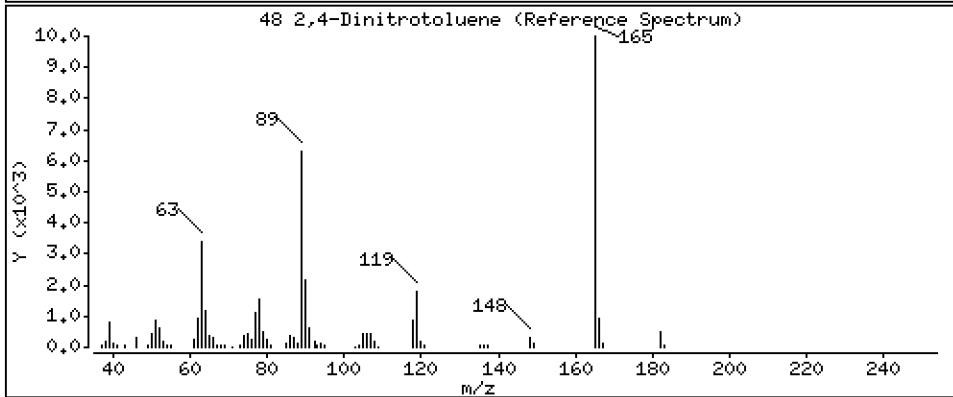
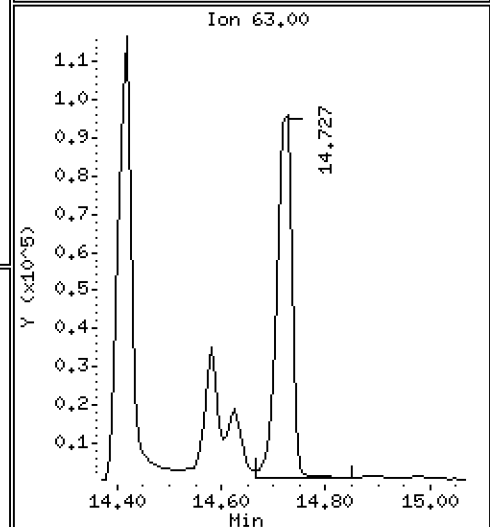
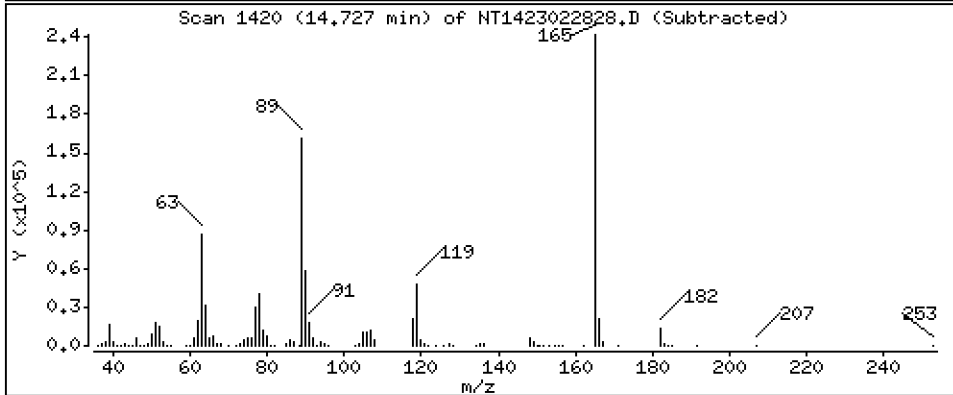
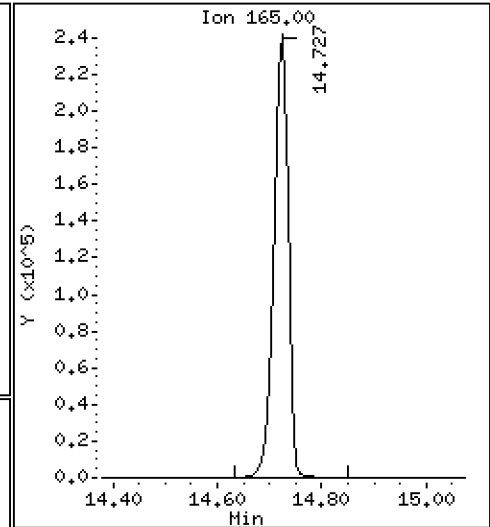
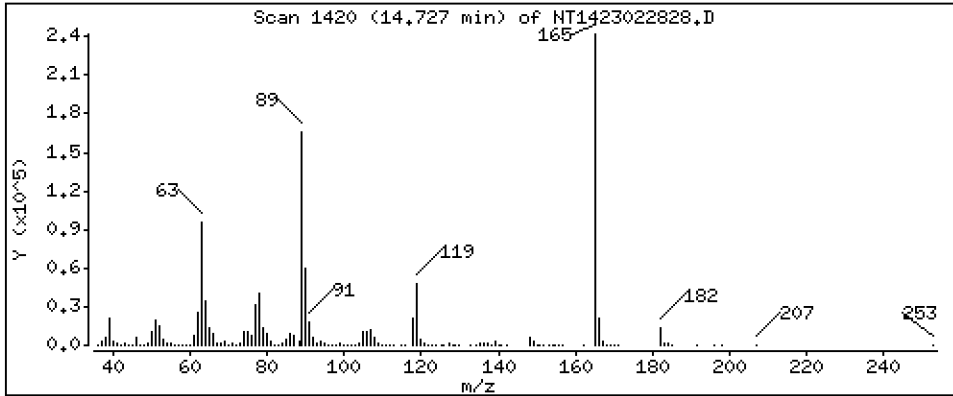
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 17,23 ug/mL





Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

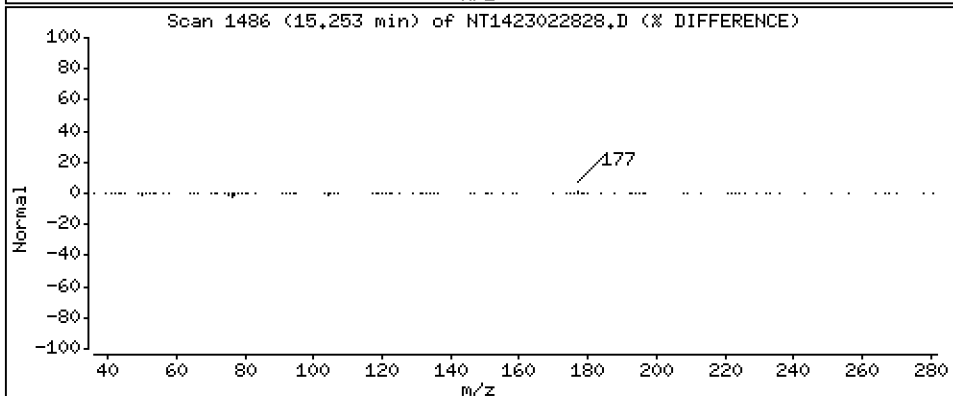
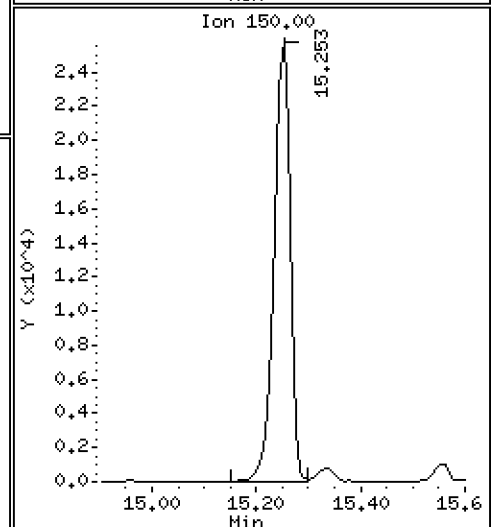
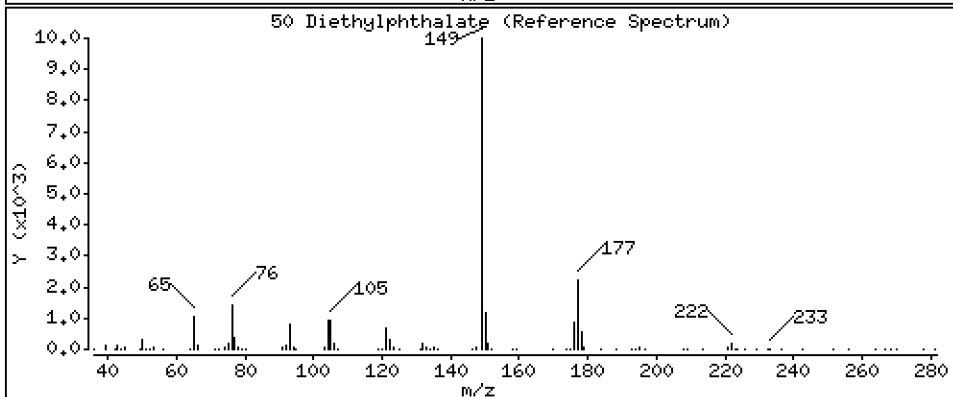
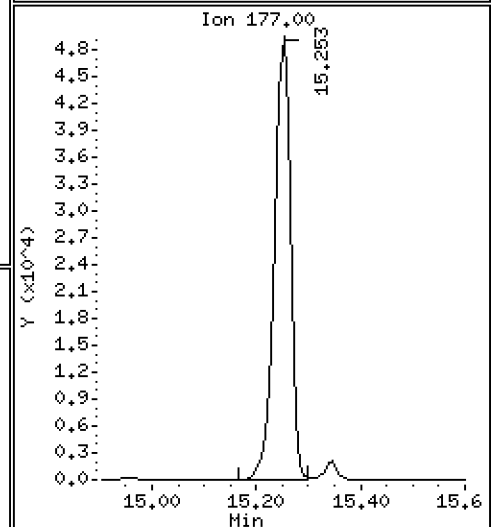
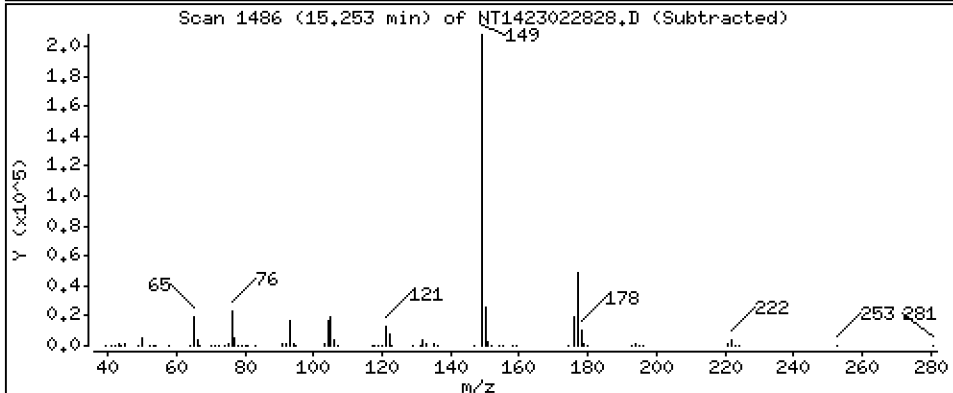
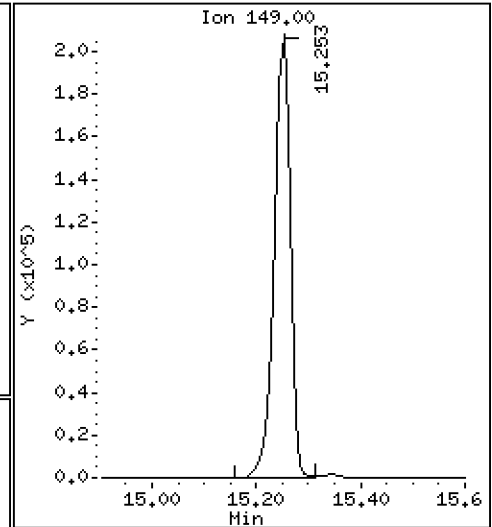
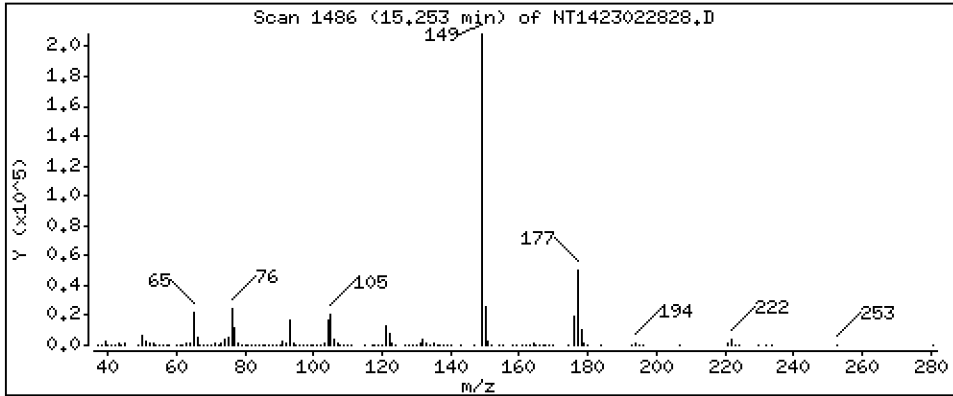
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 6,010 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

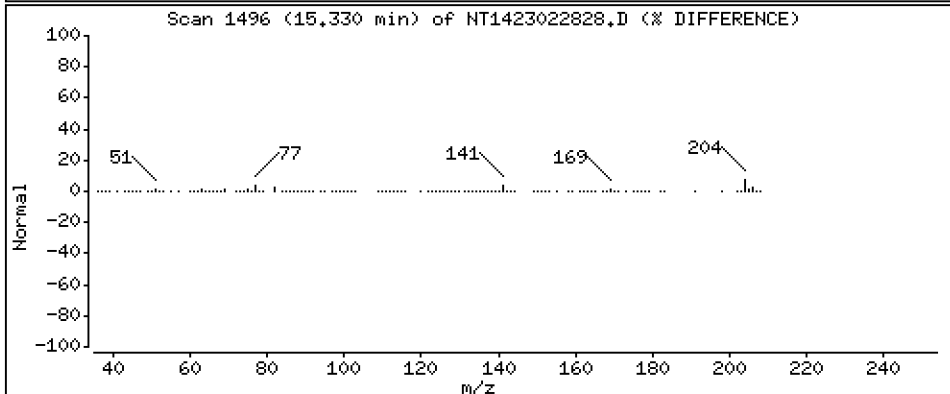
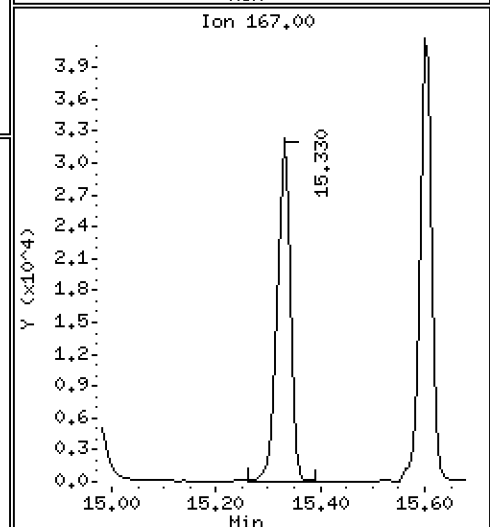
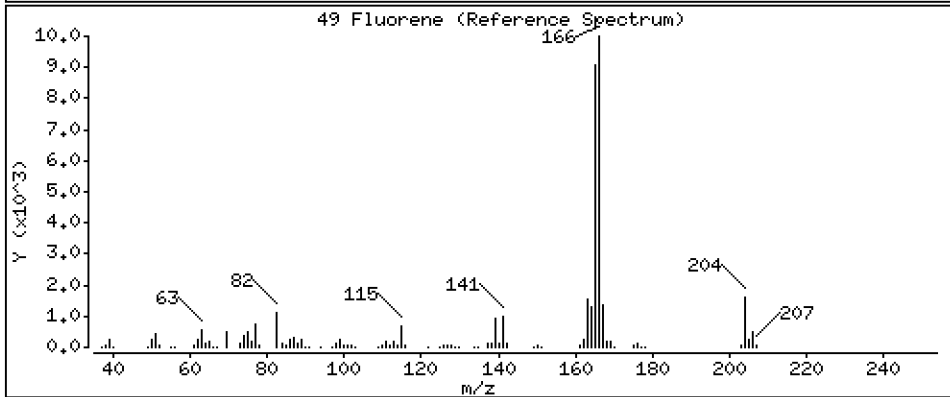
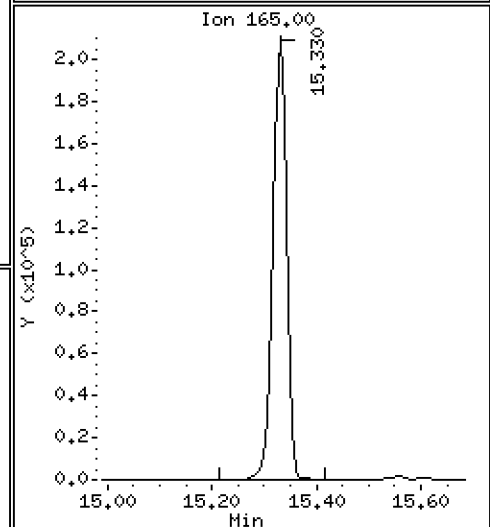
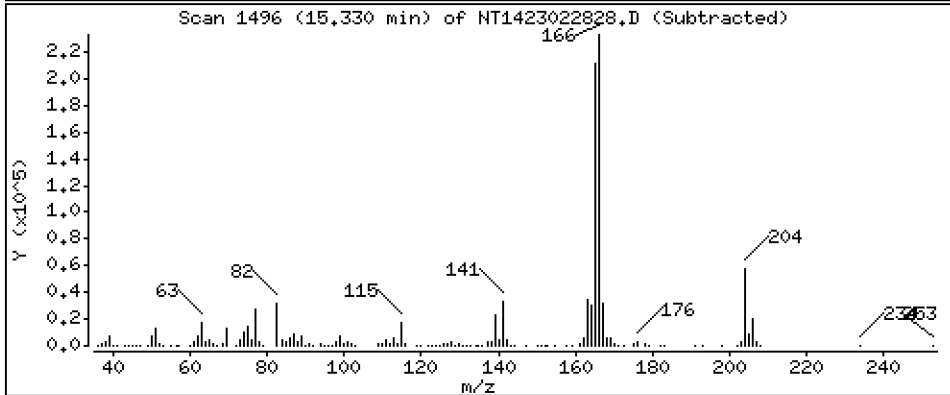
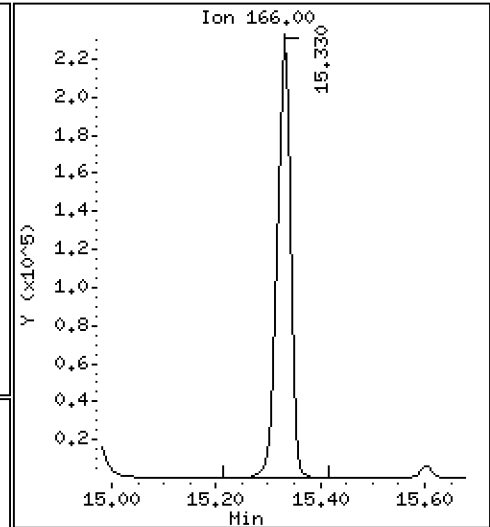
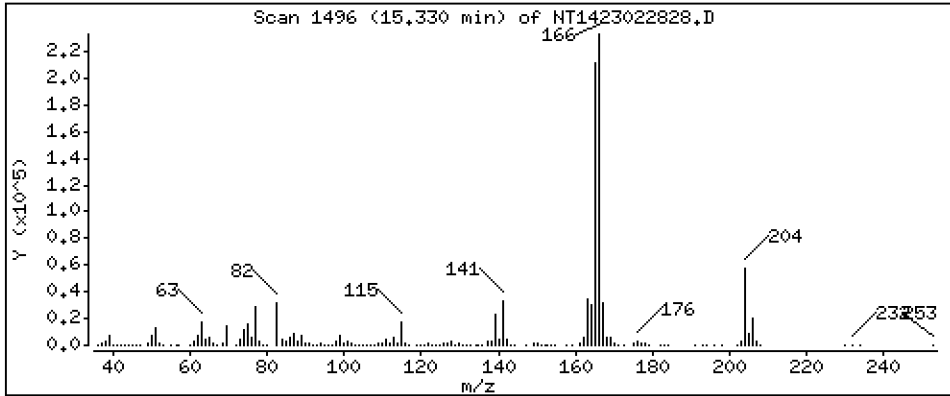
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,620 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

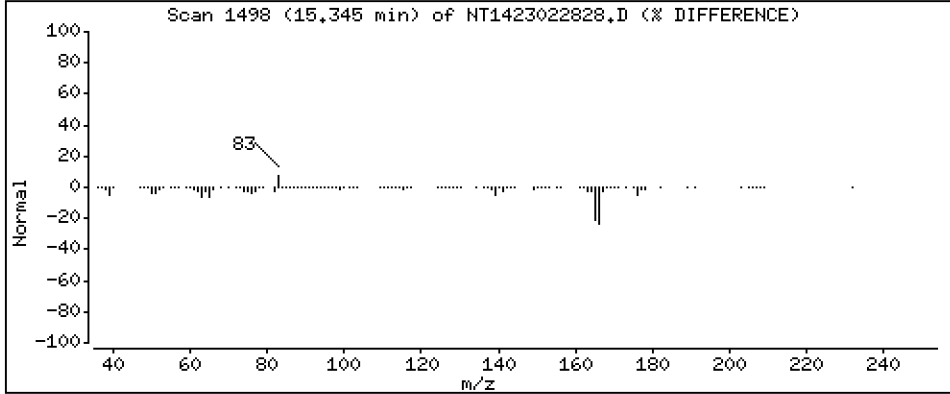
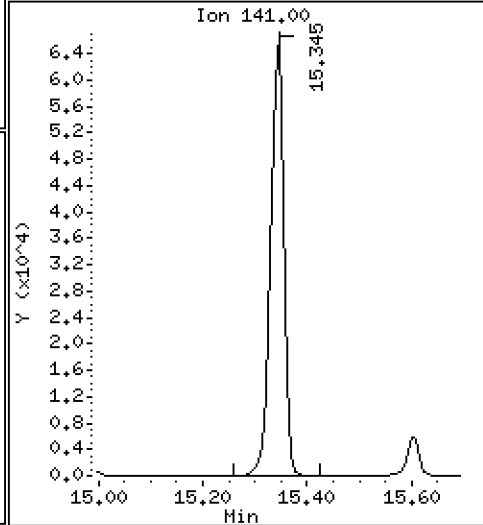
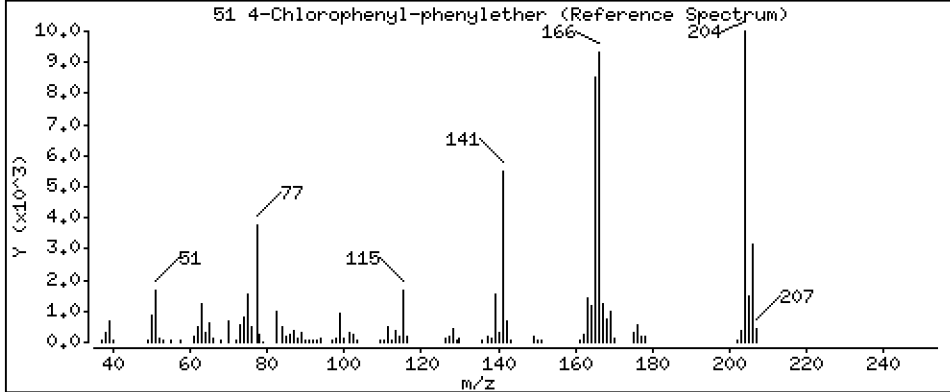
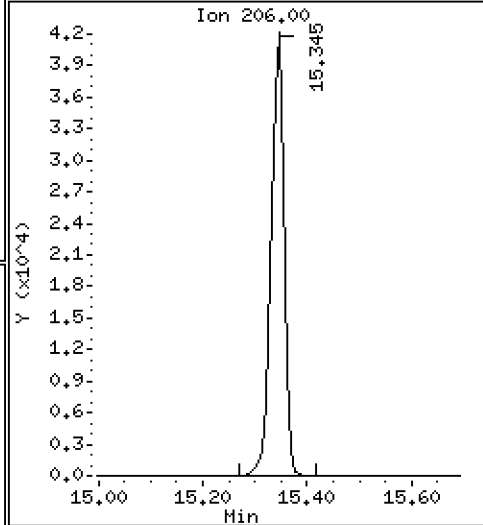
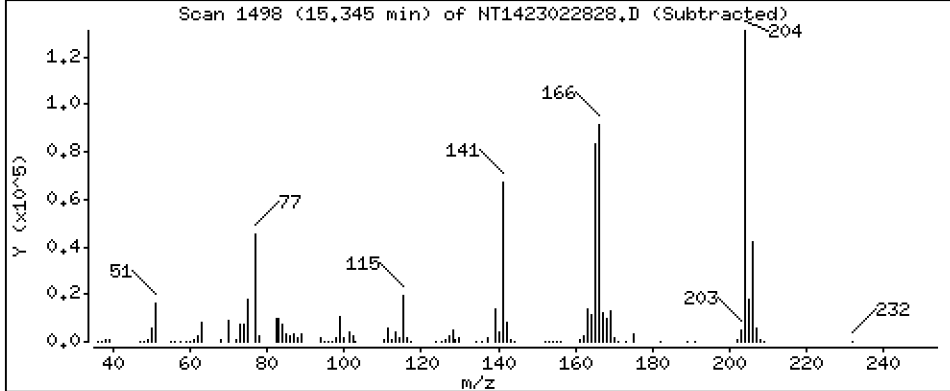
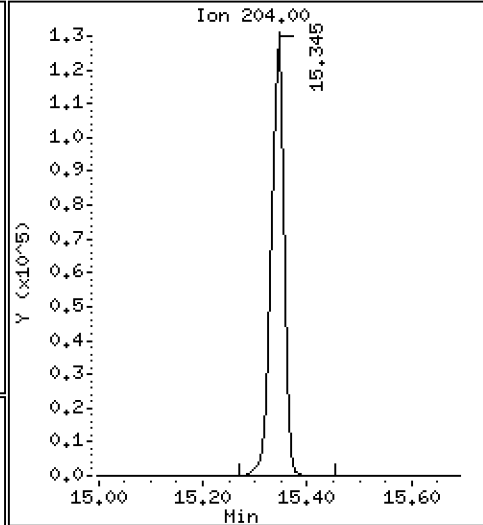
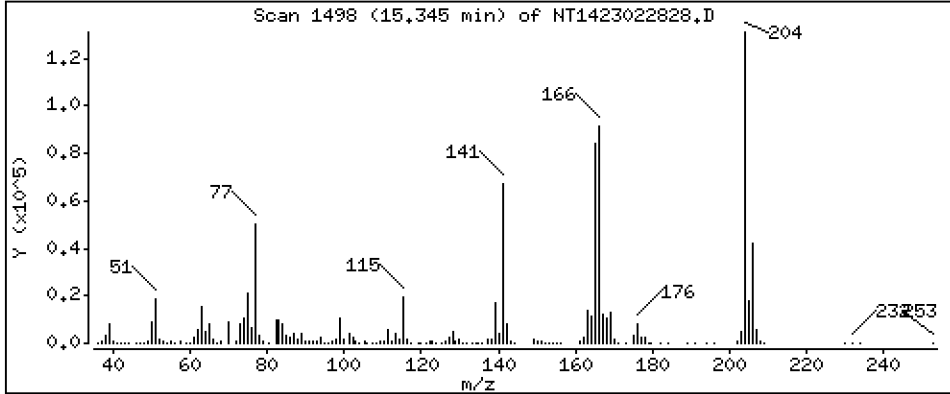
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,595 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

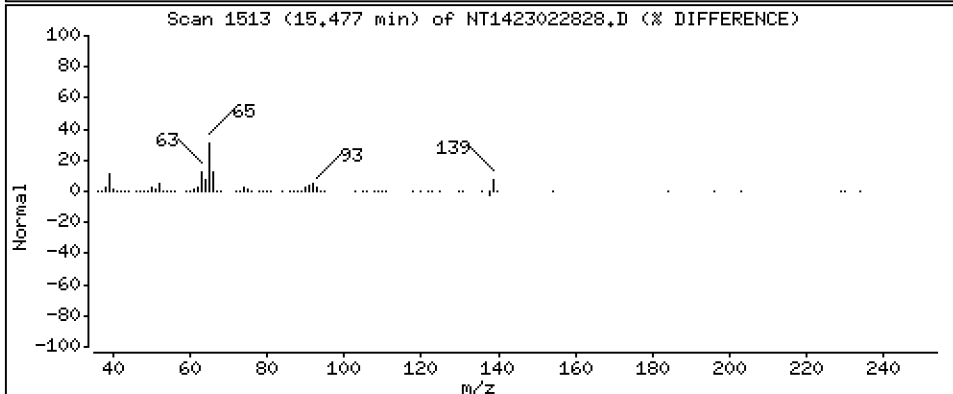
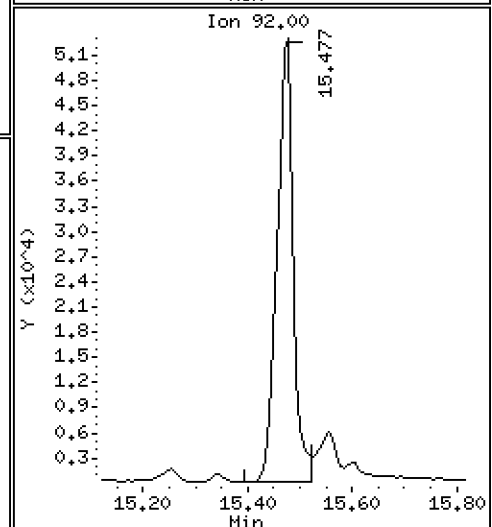
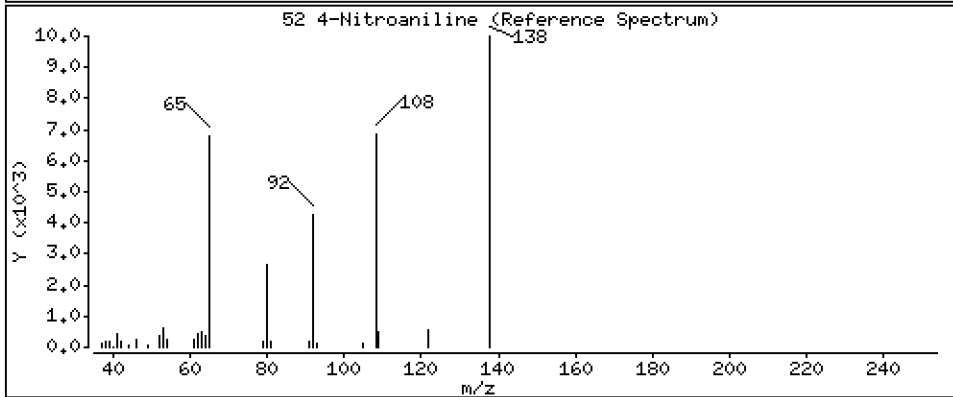
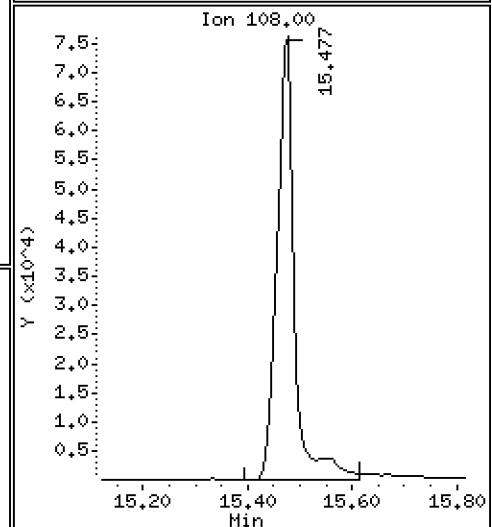
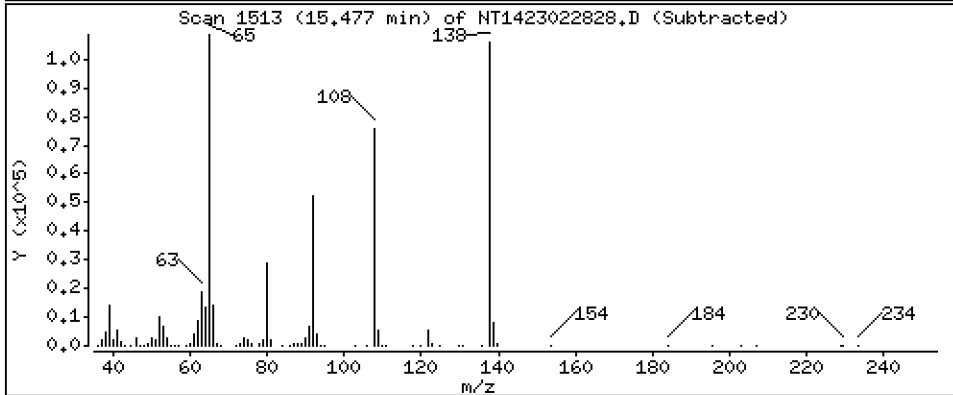
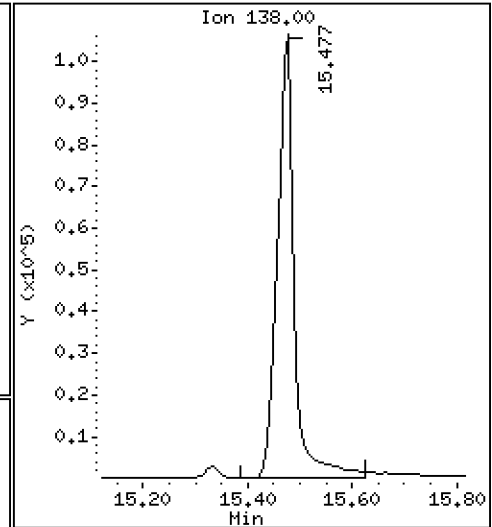
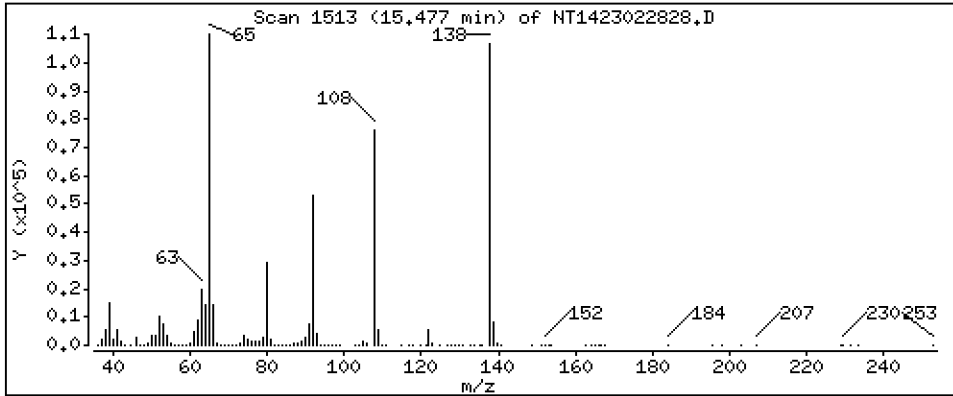
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 13,82 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

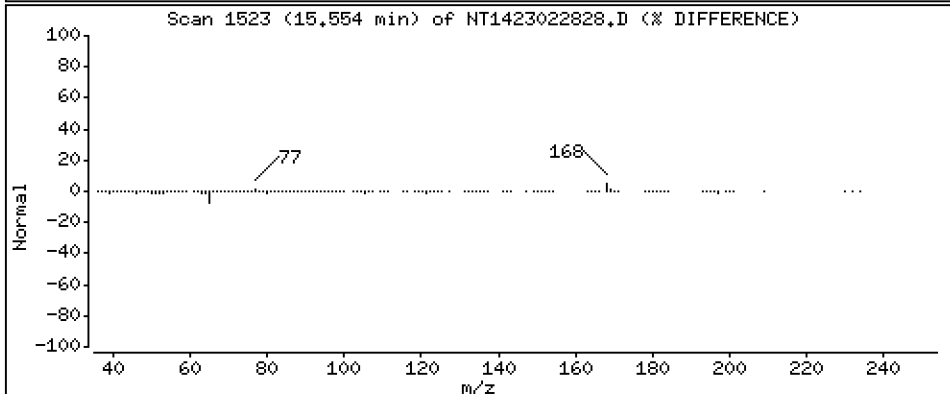
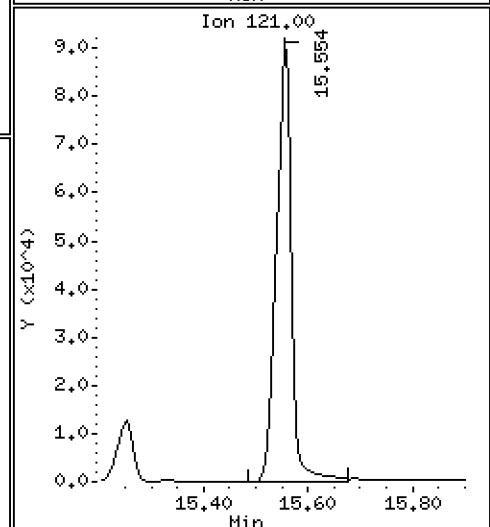
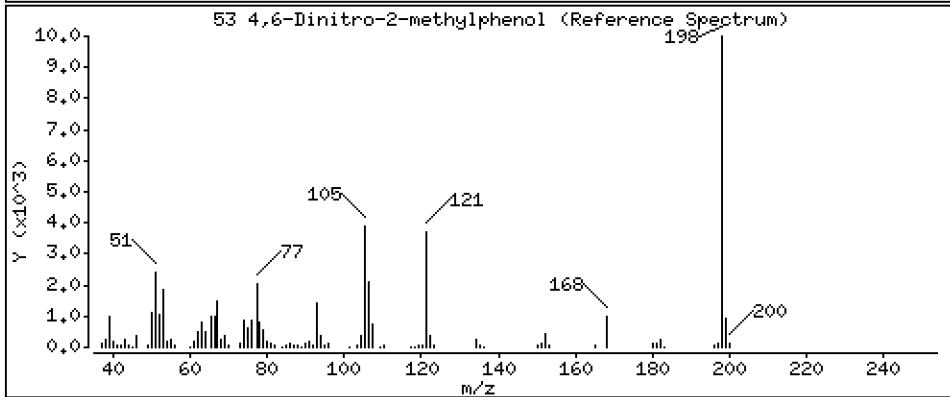
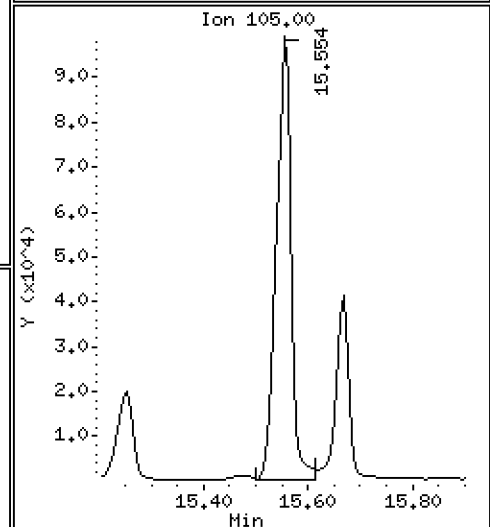
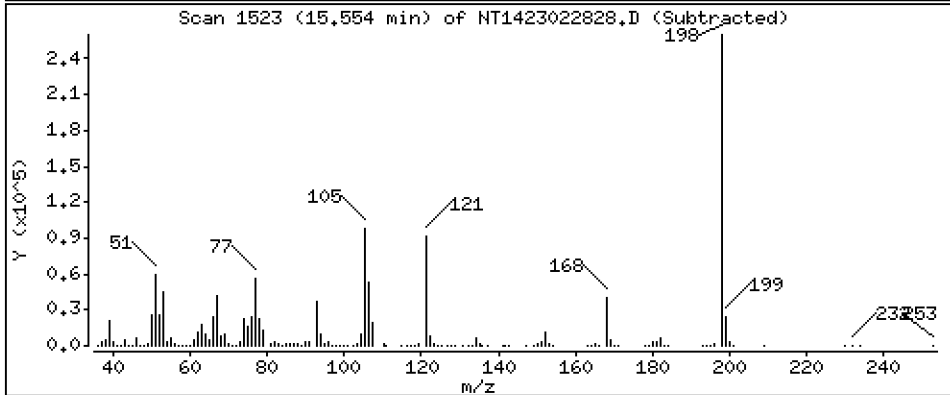
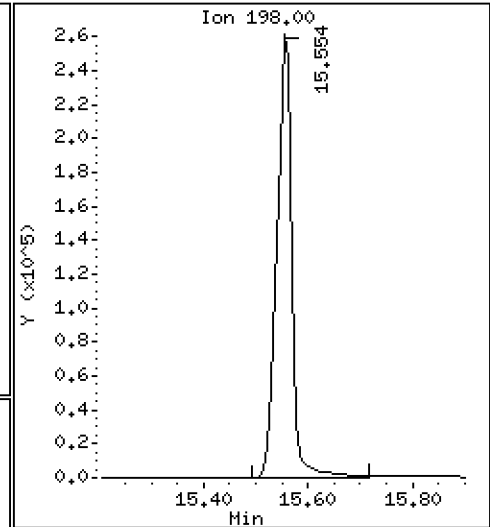
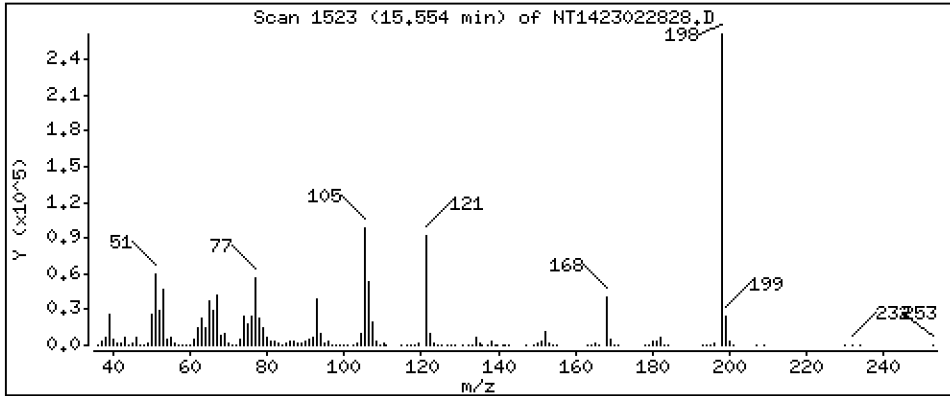
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 33,21 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

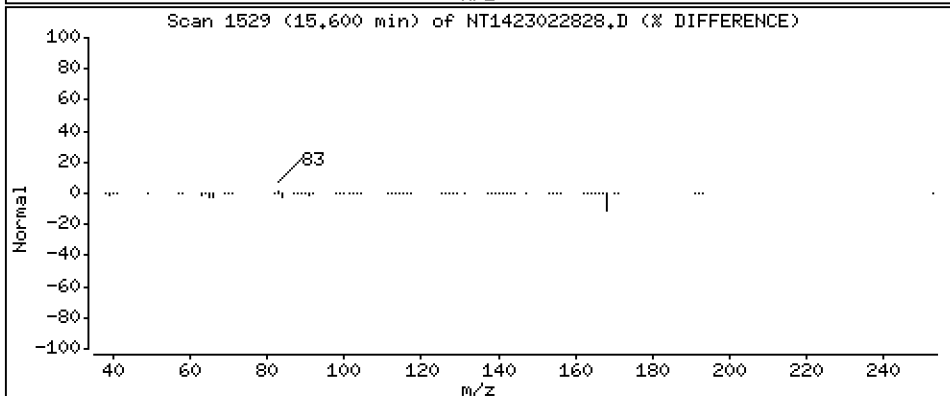
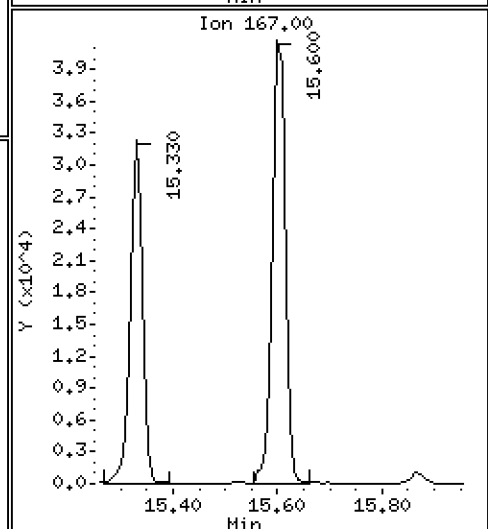
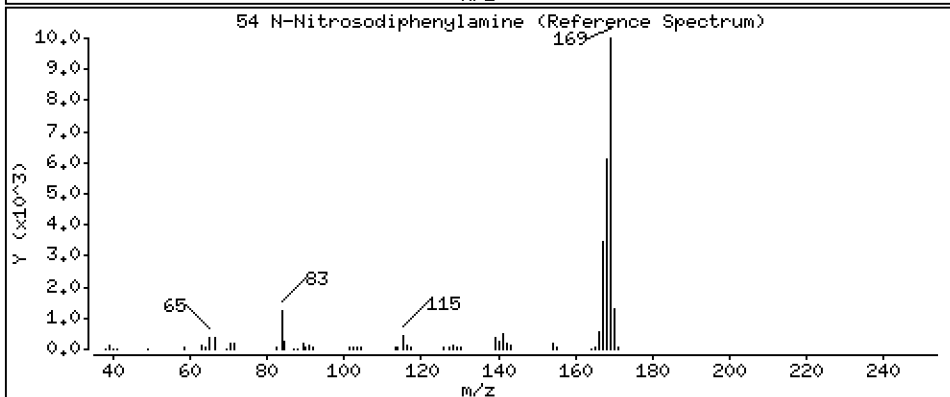
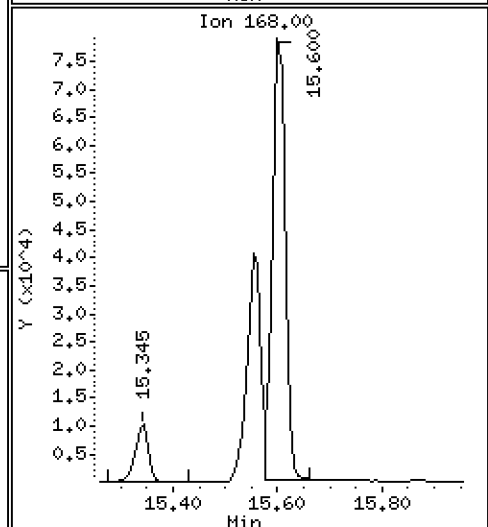
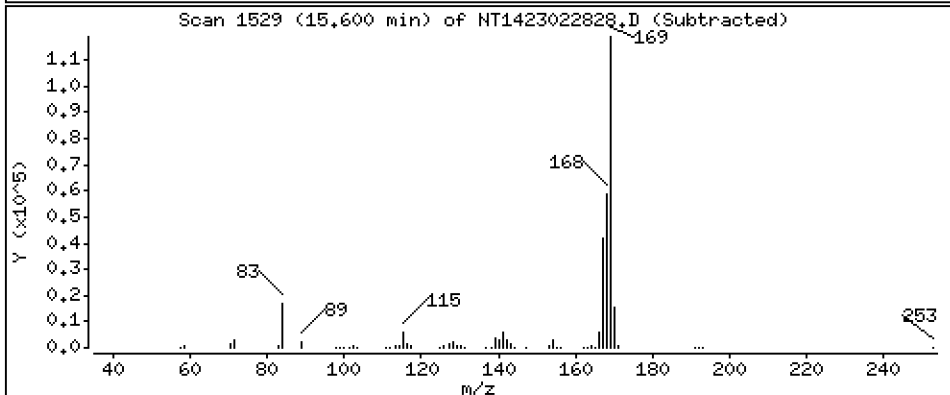
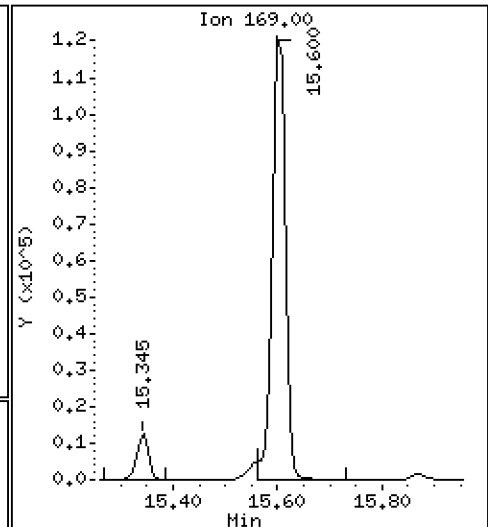
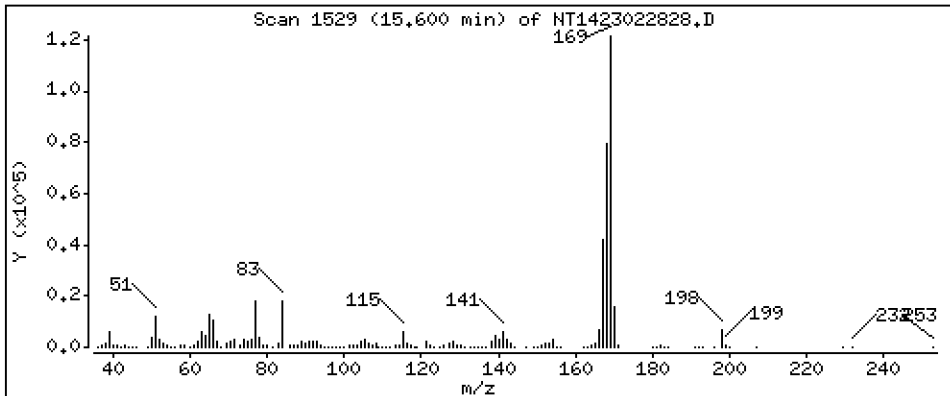
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 3,473 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

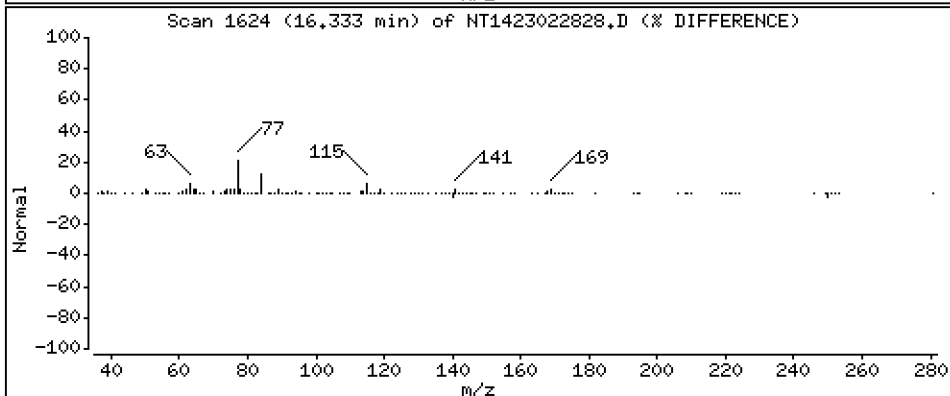
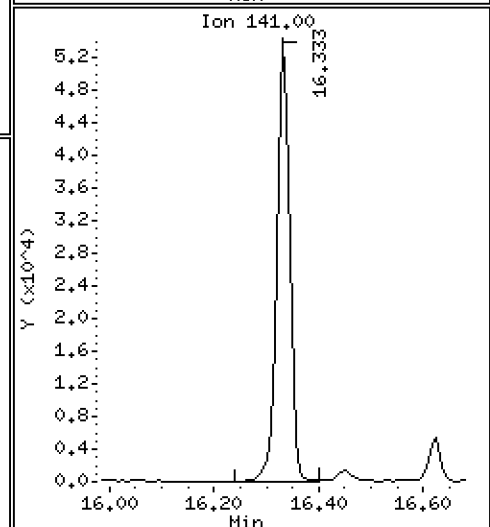
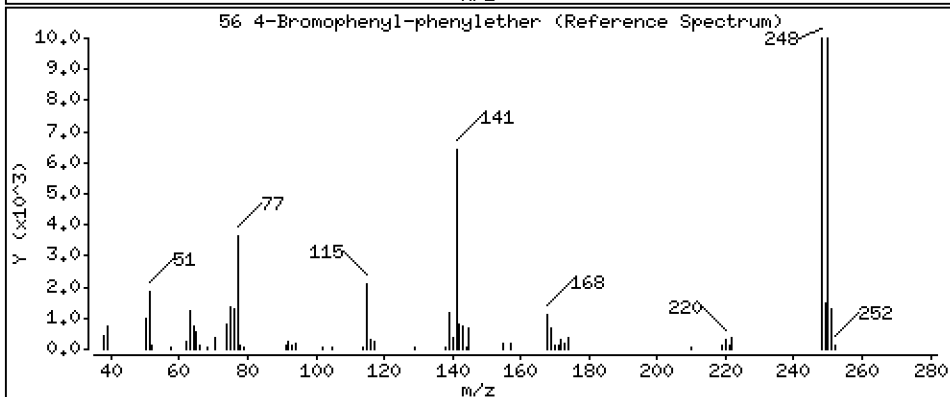
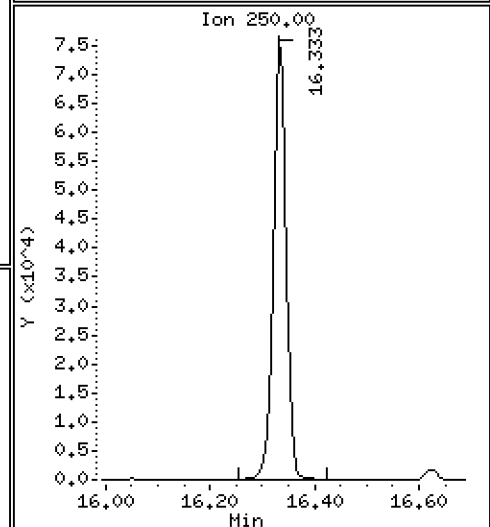
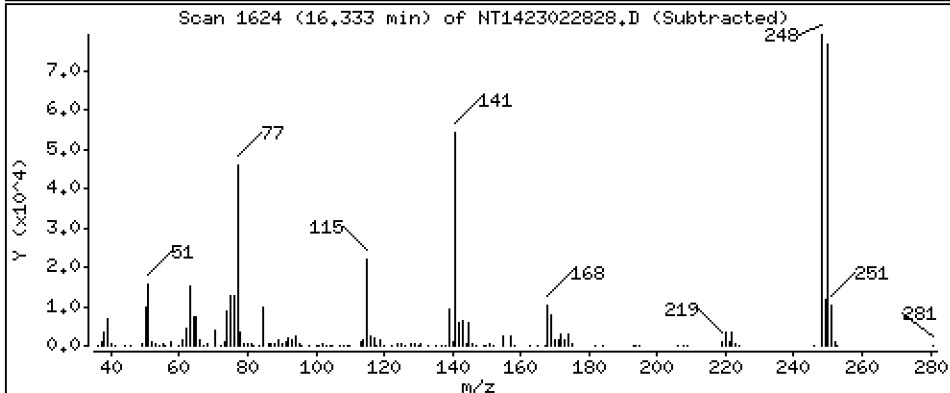
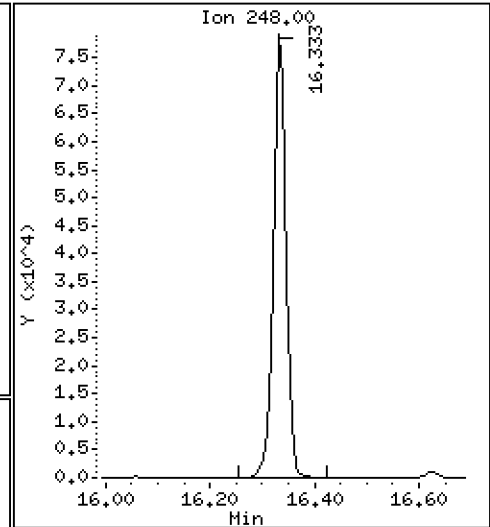
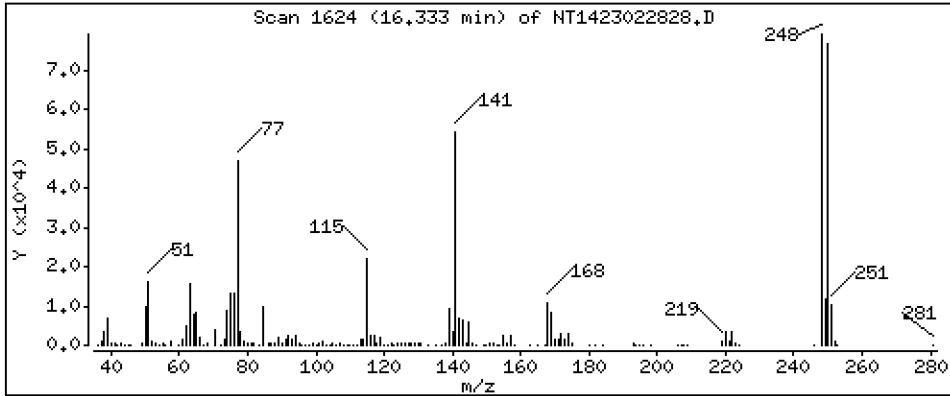
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,261 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

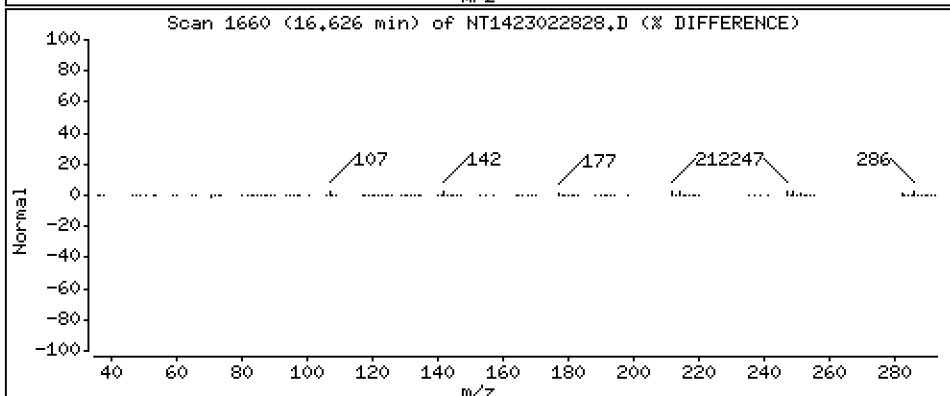
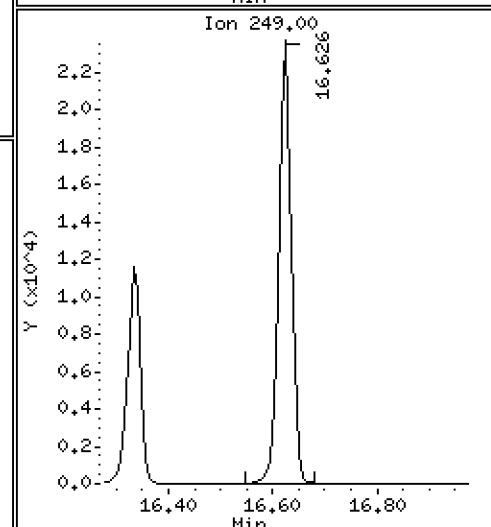
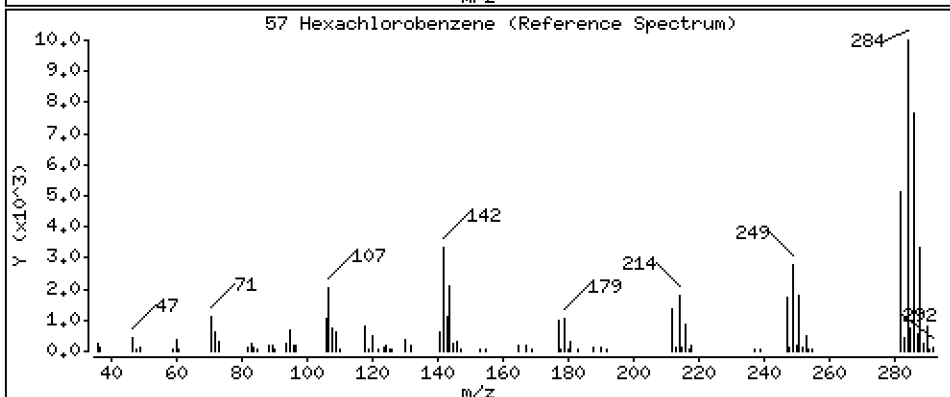
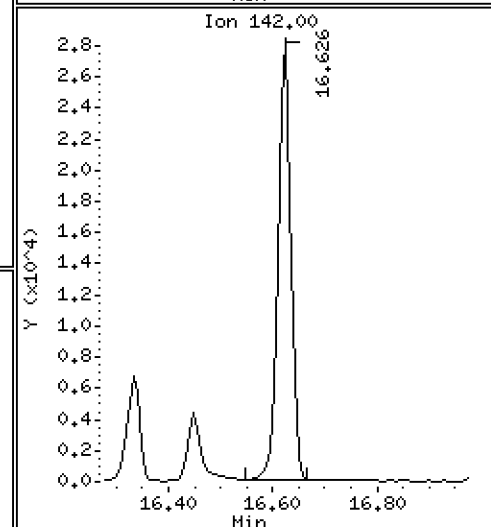
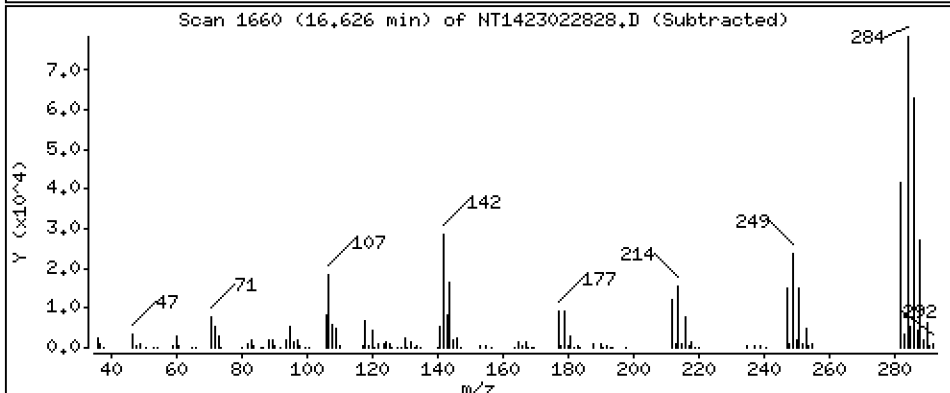
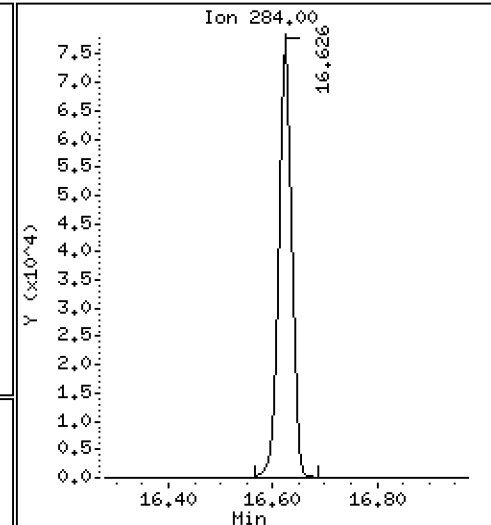
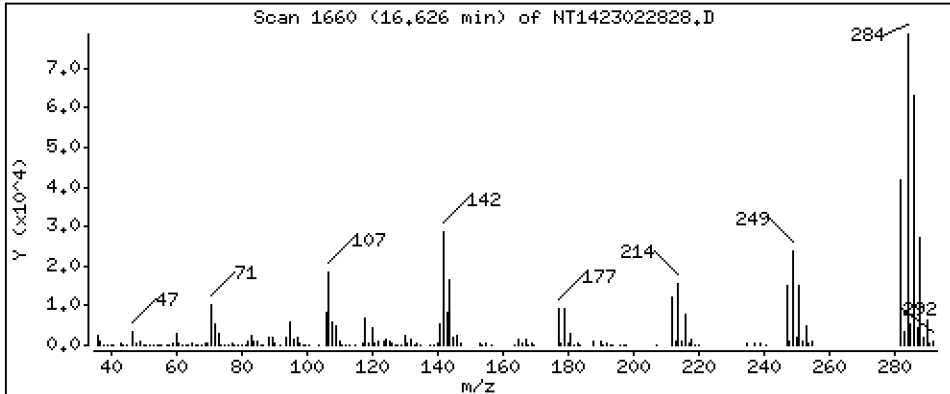
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,758 ug/mL





Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

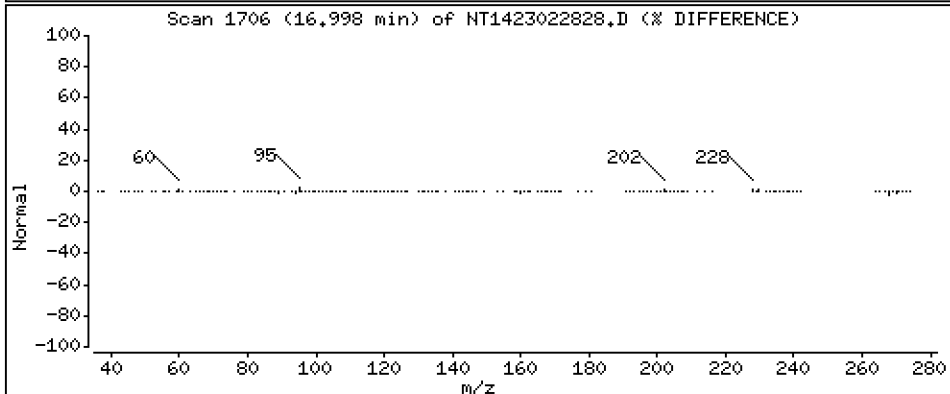
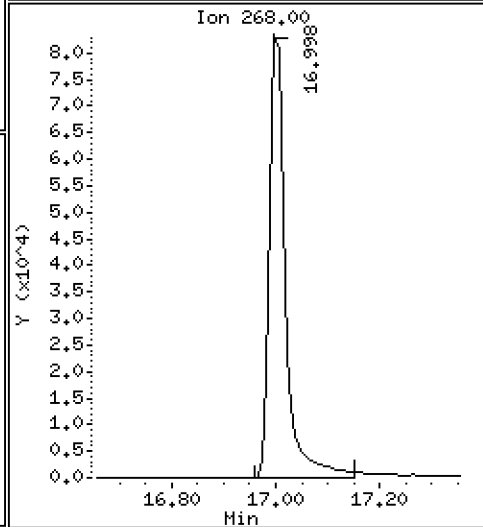
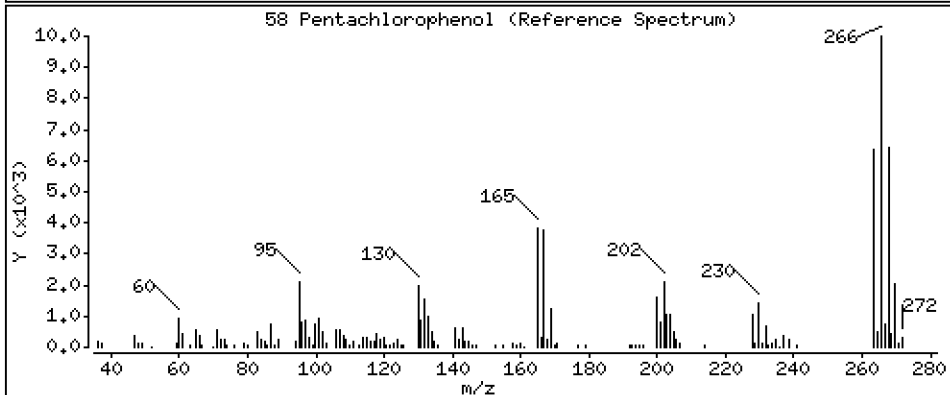
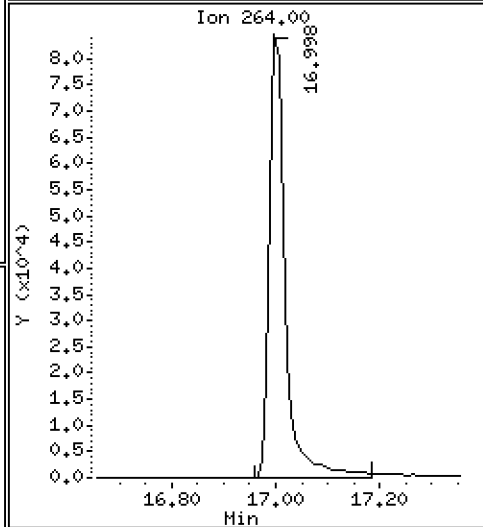
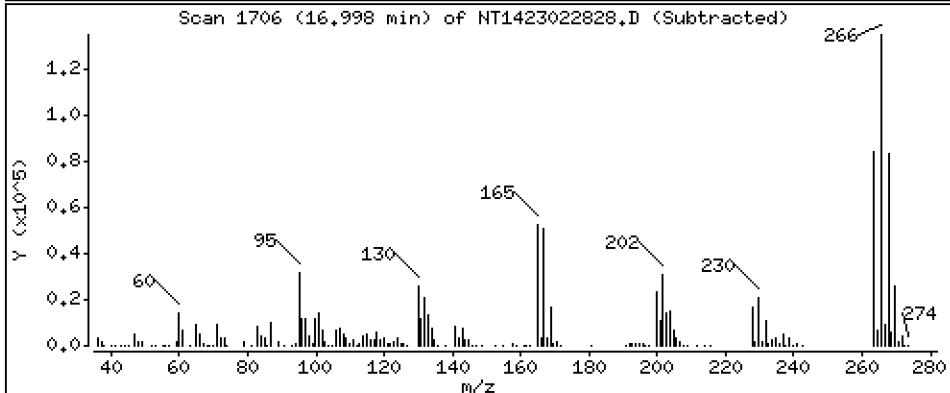
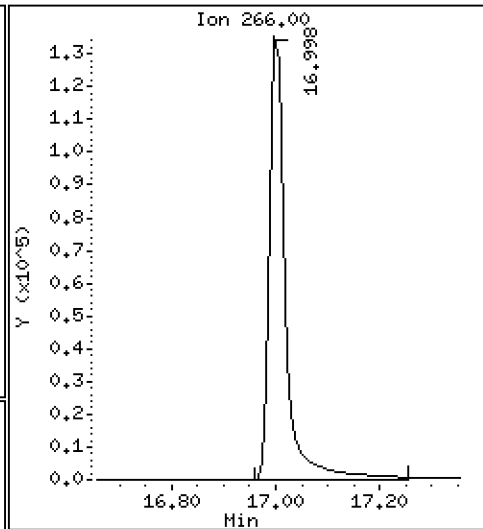
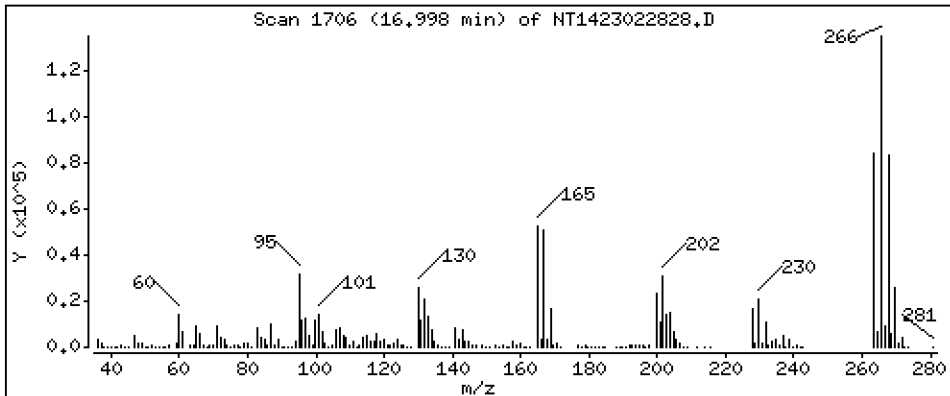
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 19,36 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

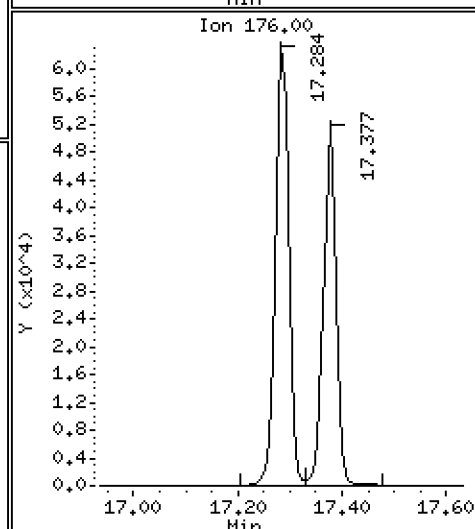
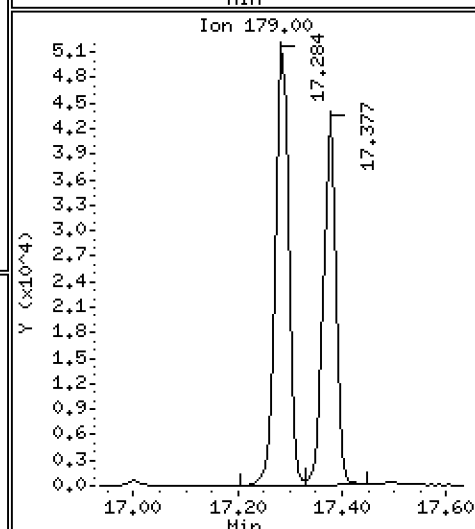
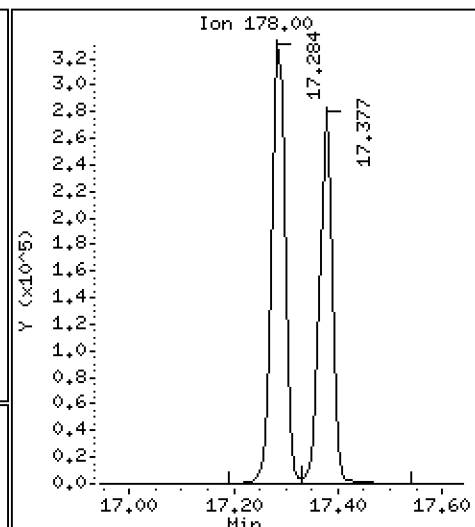
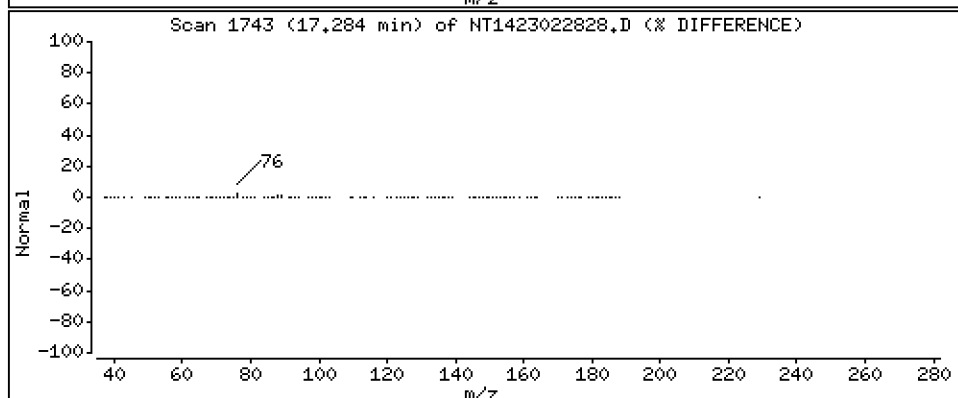
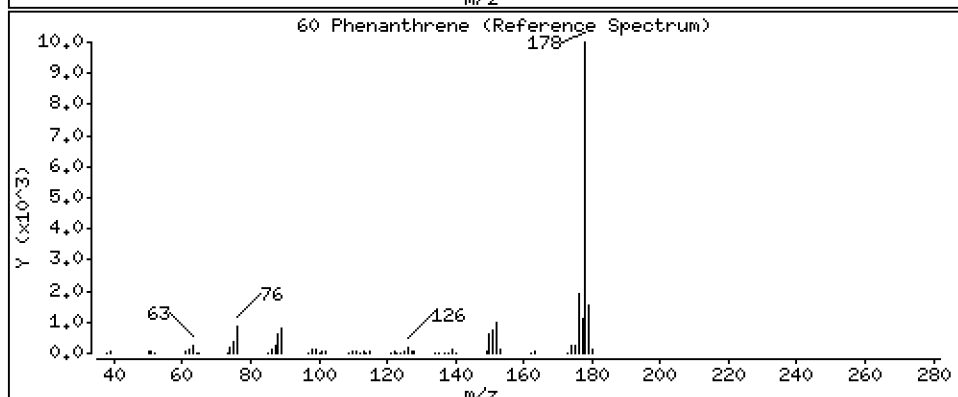
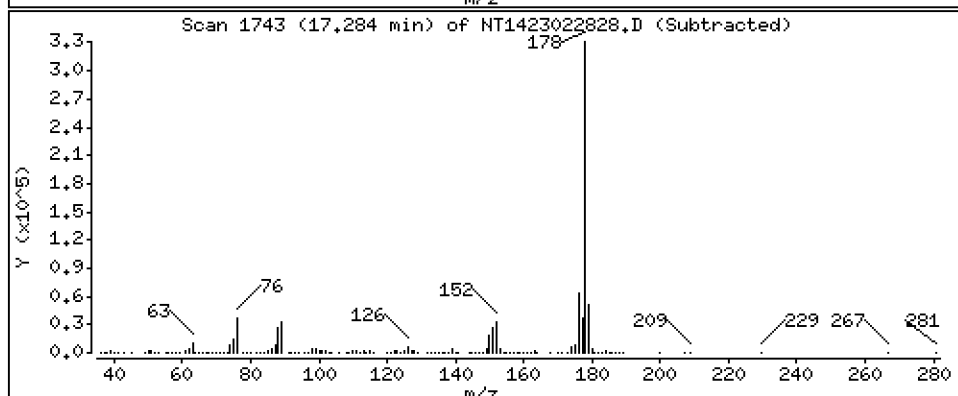
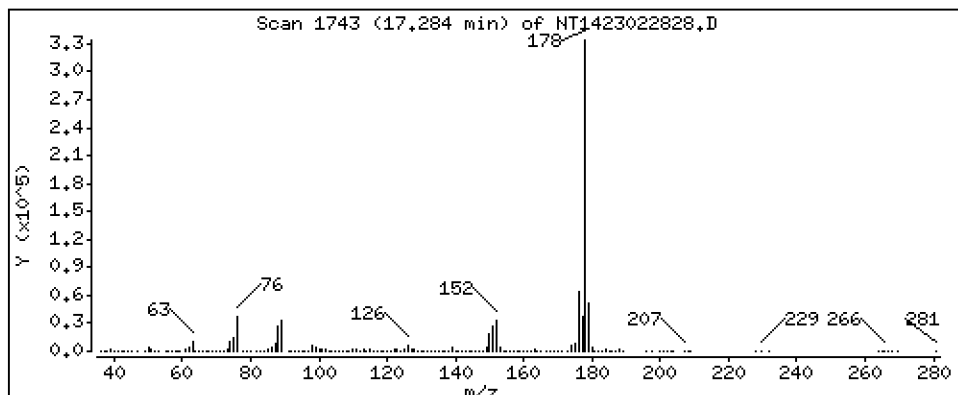
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,684 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

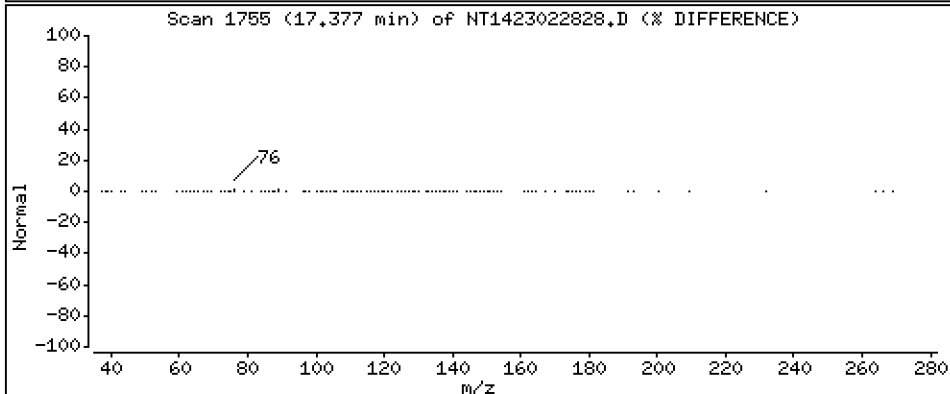
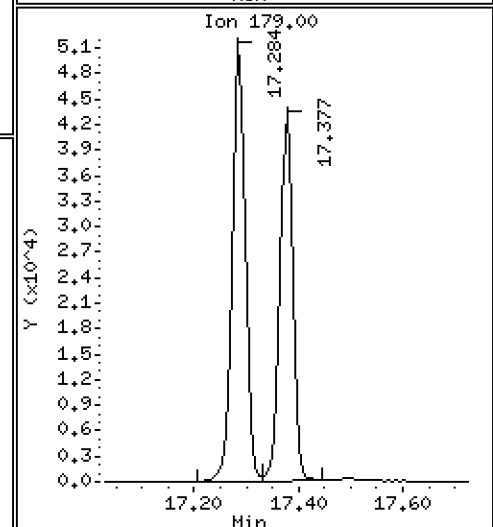
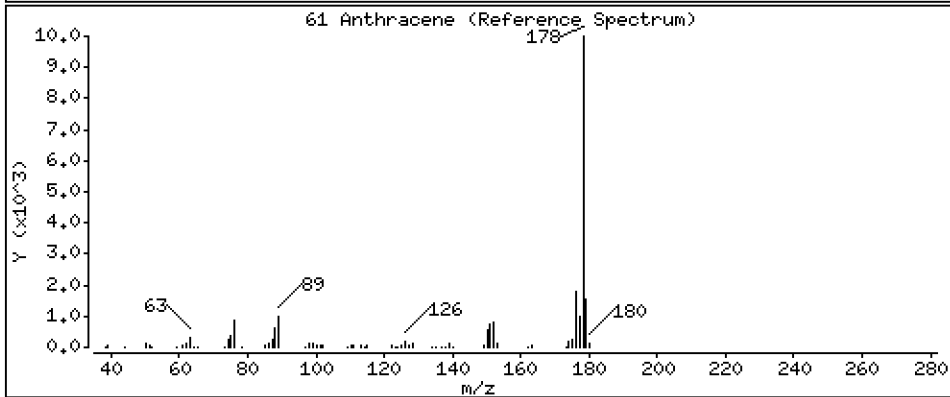
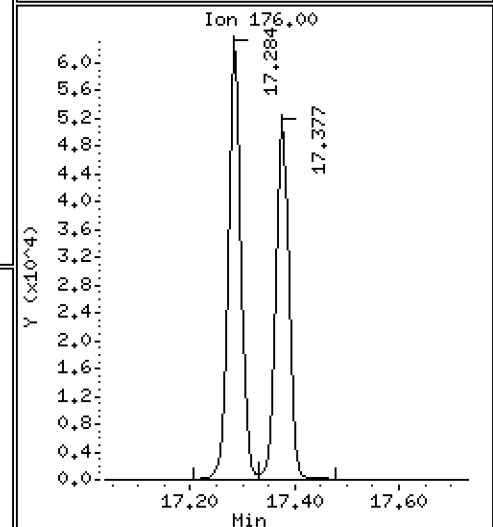
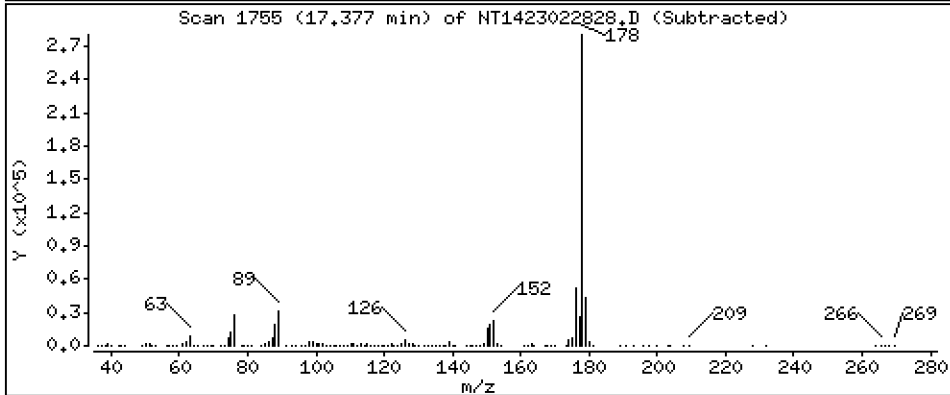
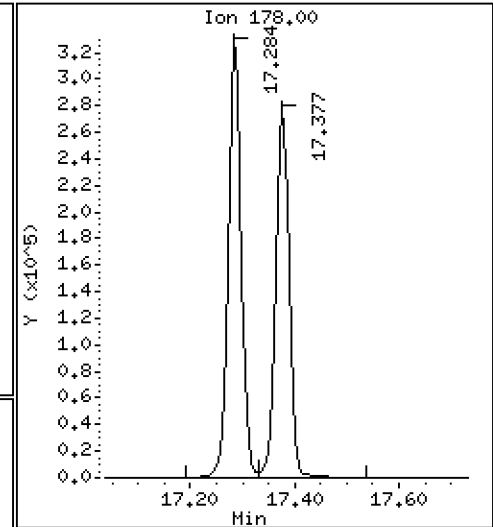
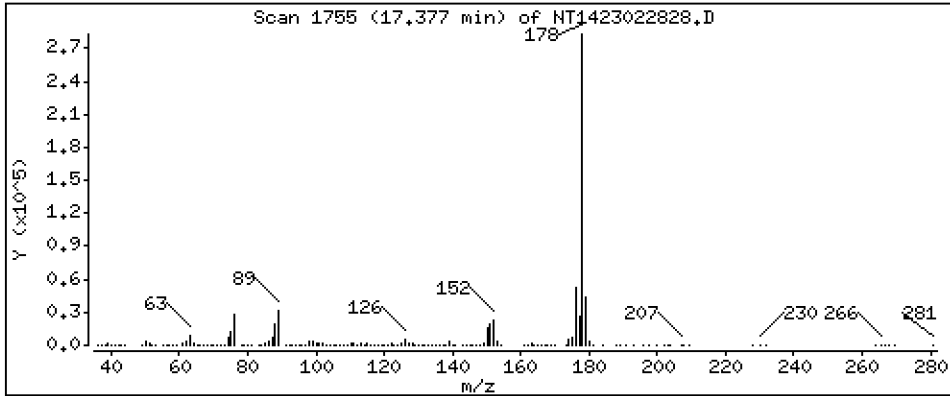
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,077 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

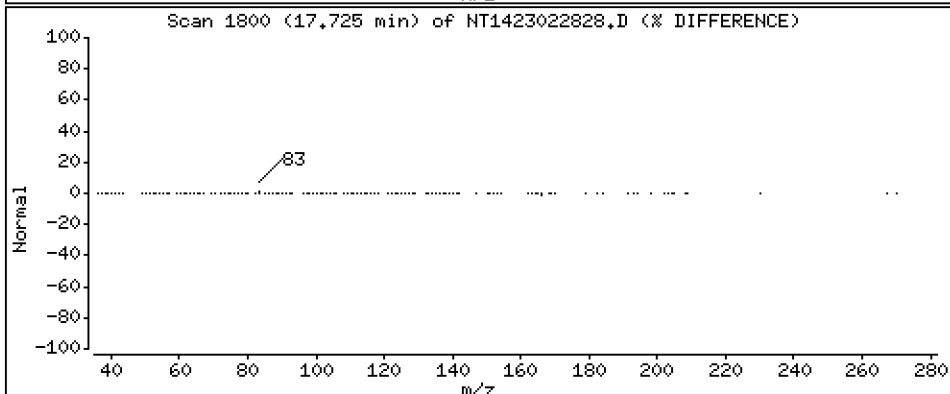
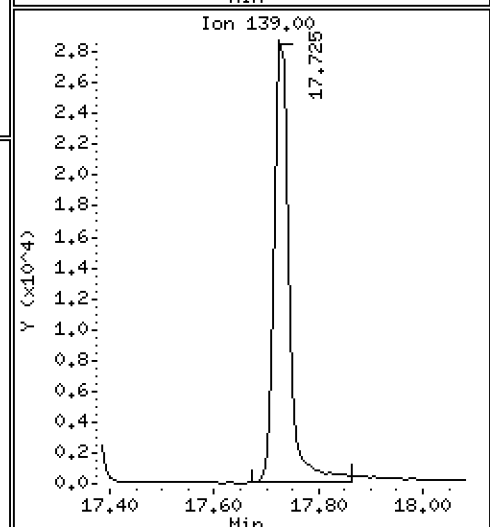
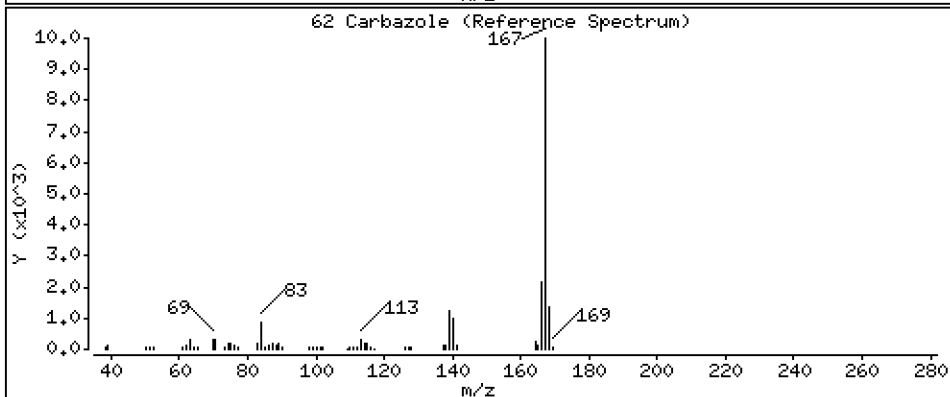
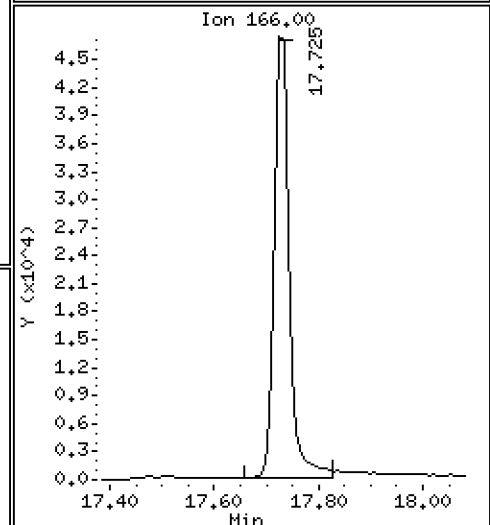
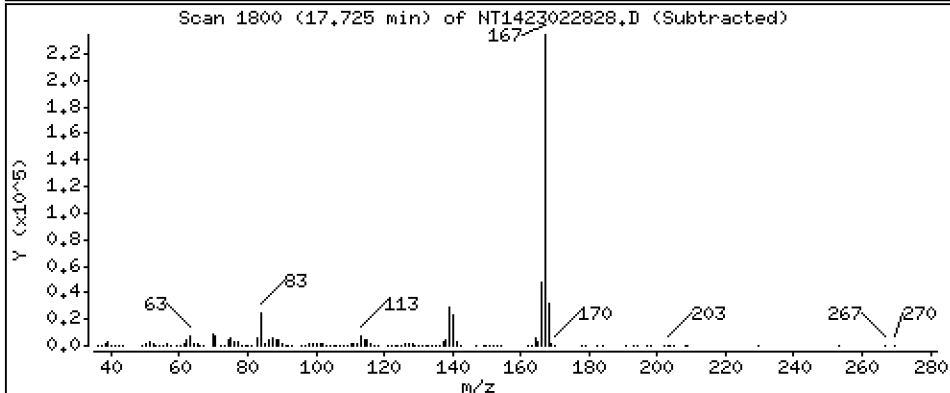
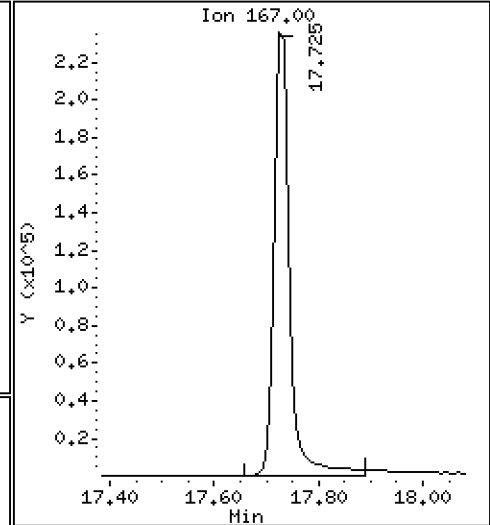
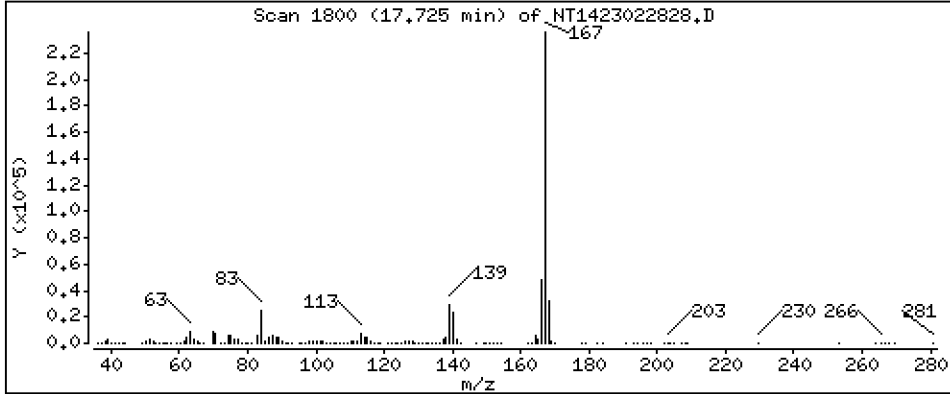
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,631 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

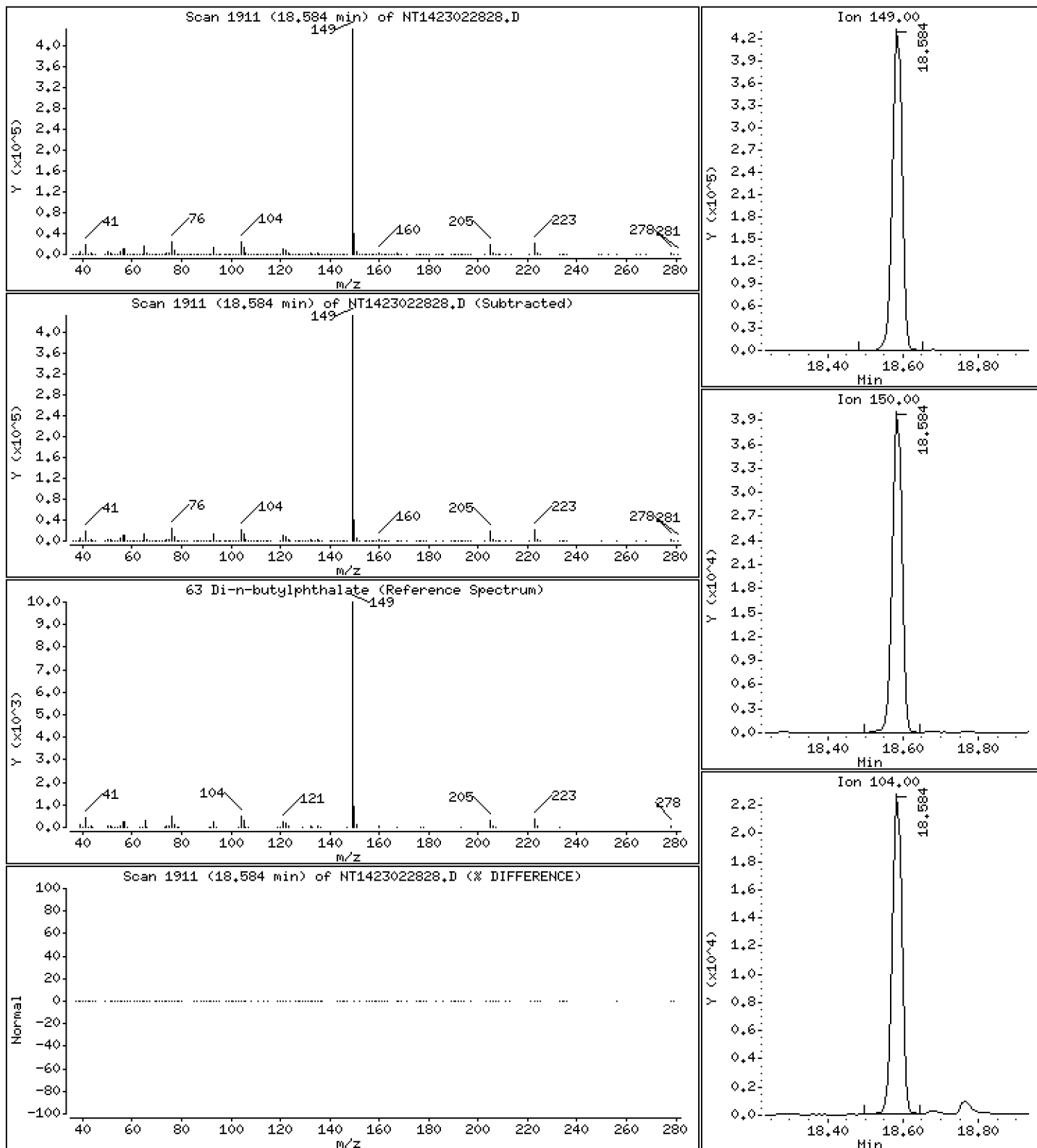
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 5,756 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

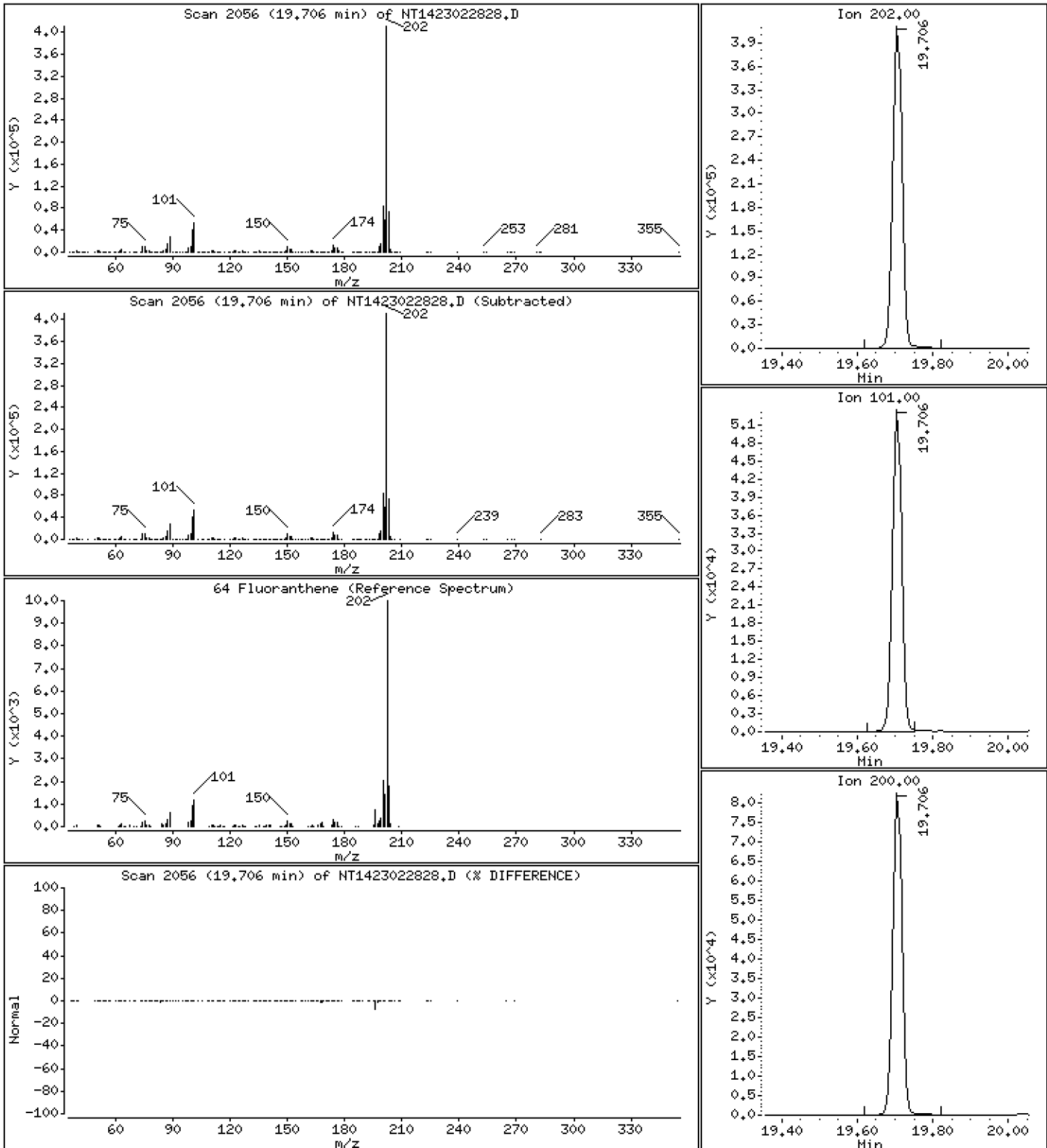
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 5,123 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

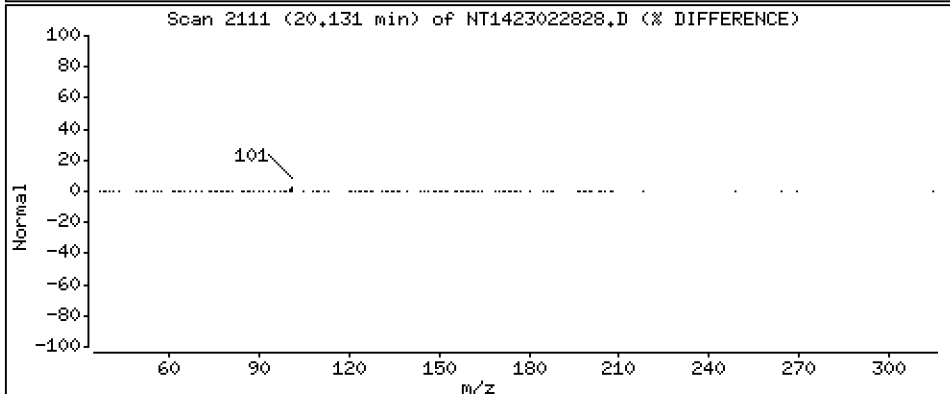
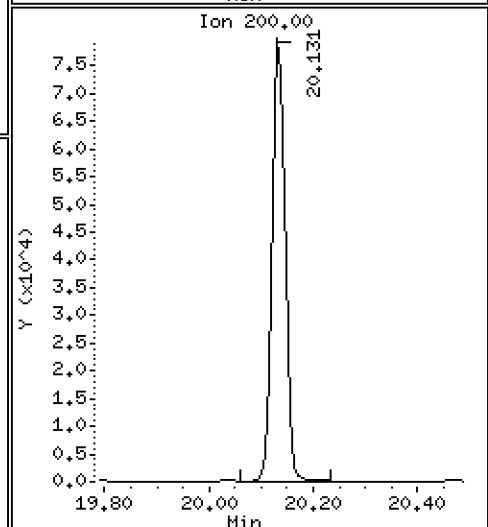
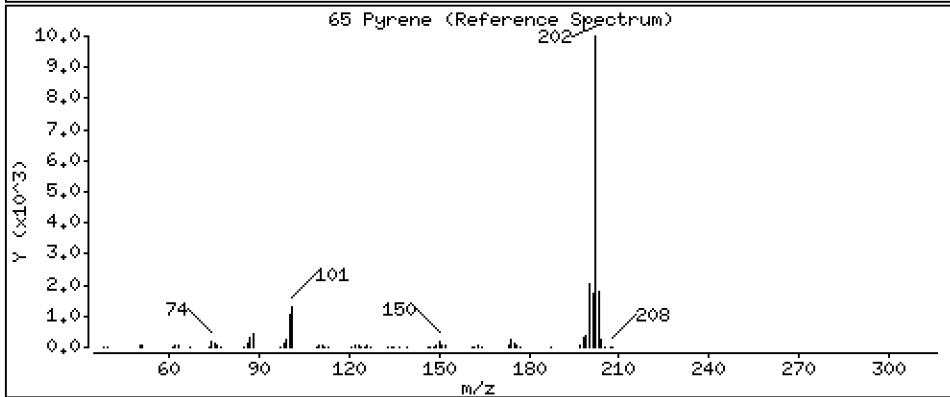
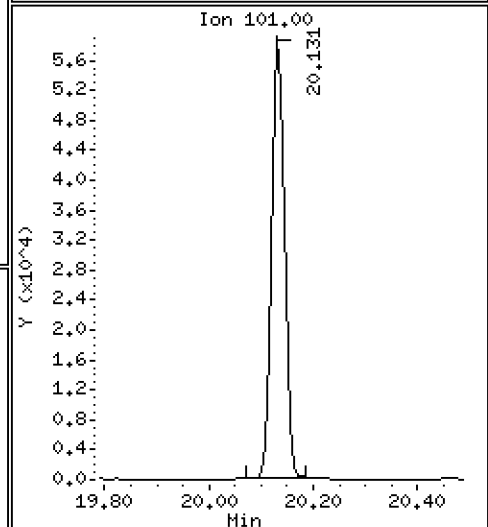
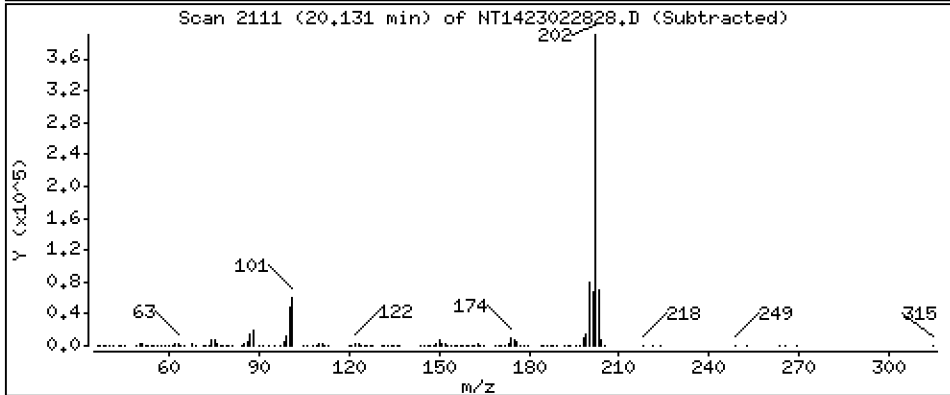
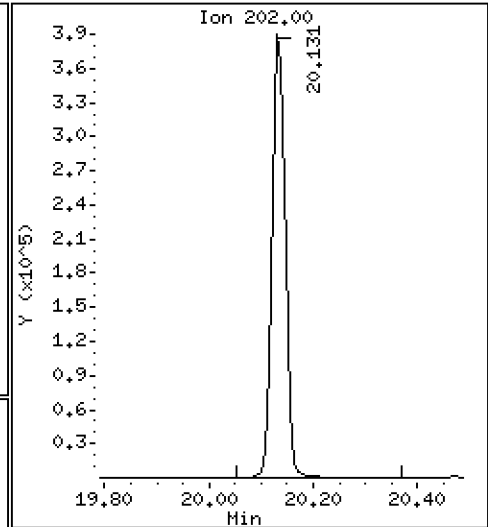
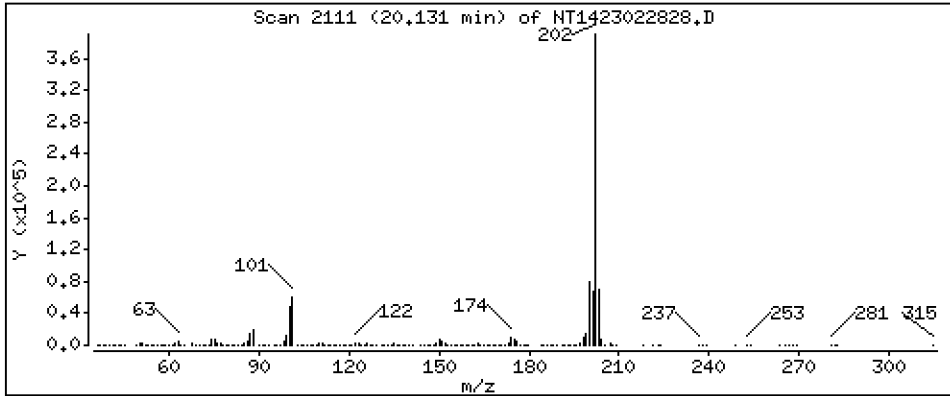
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 5,055 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

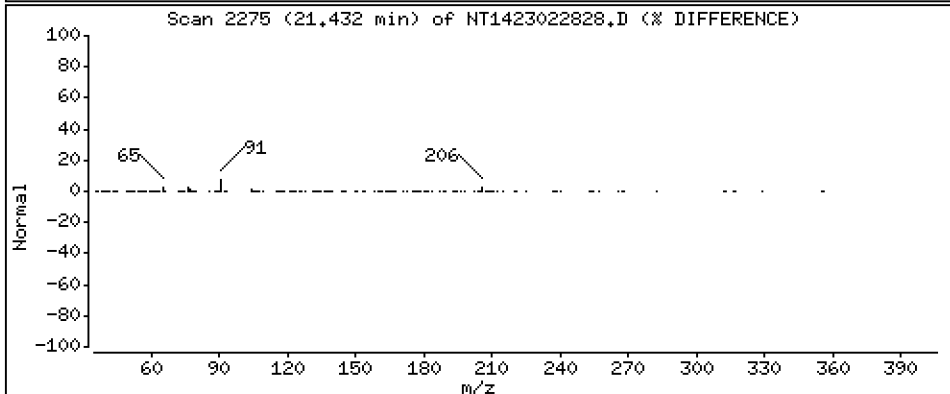
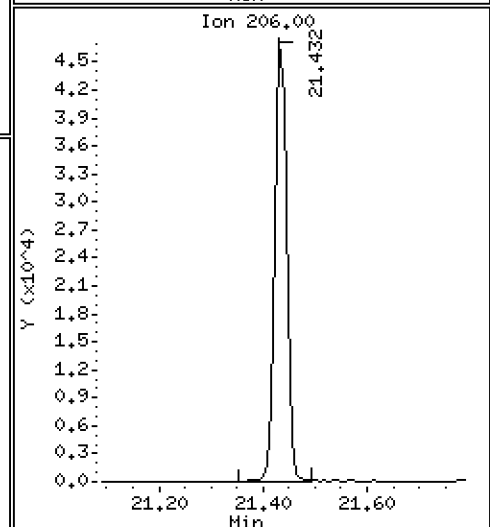
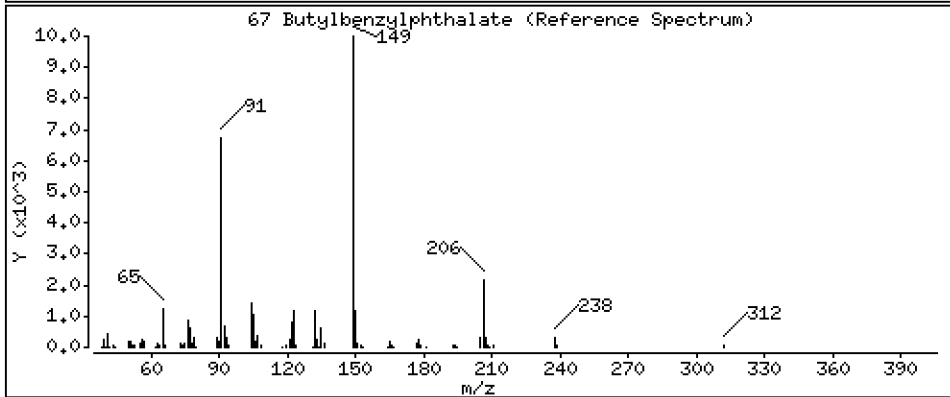
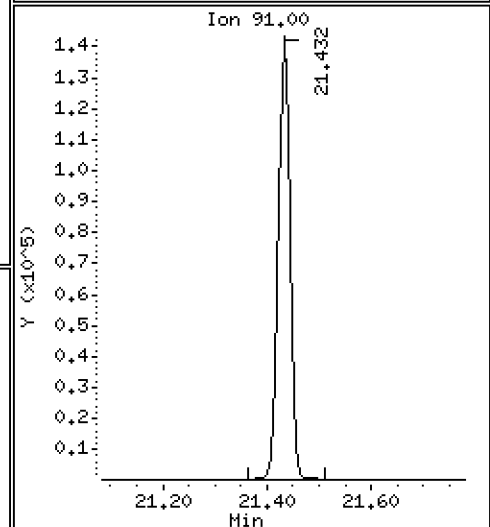
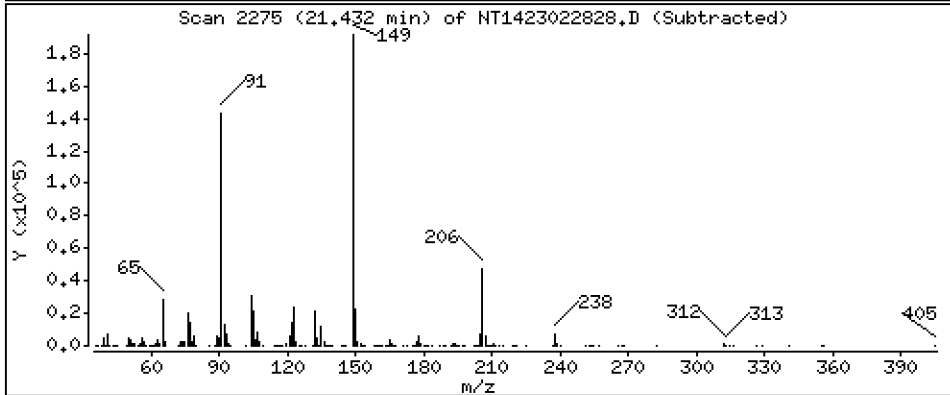
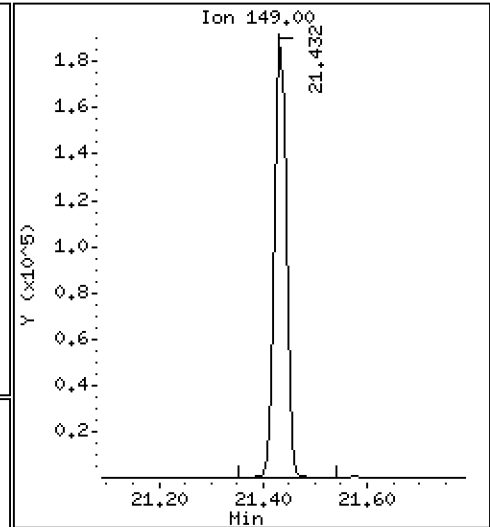
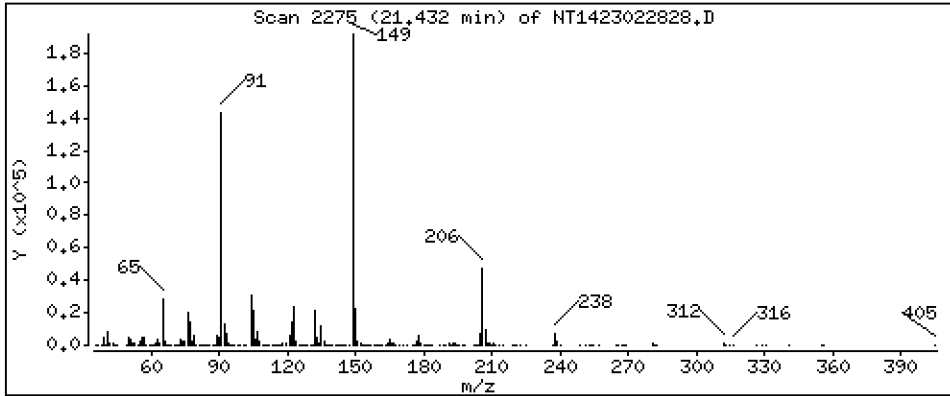
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,965 ug/mL





Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

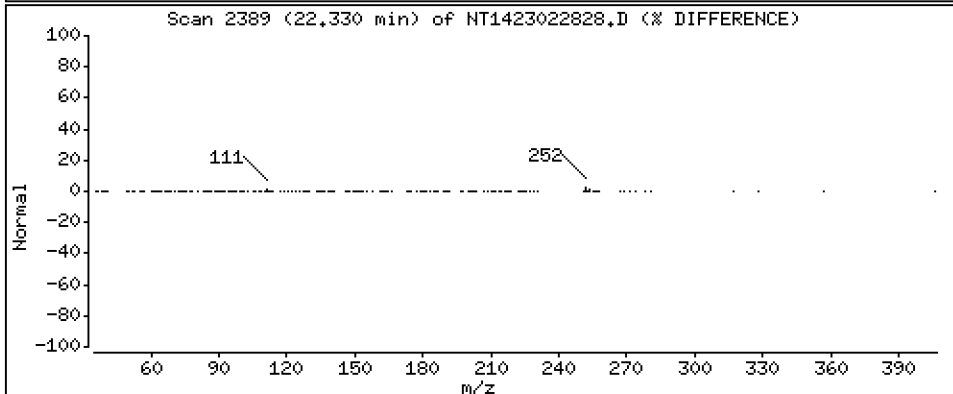
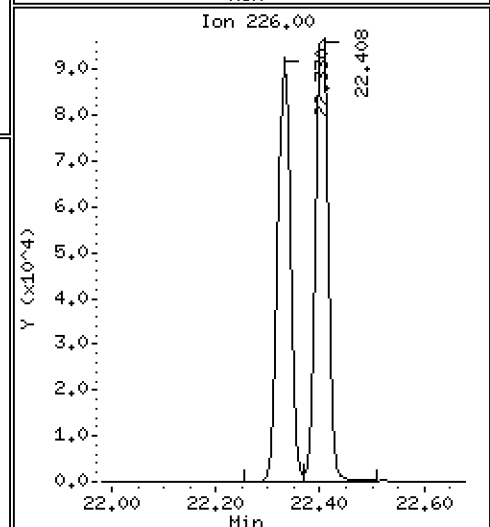
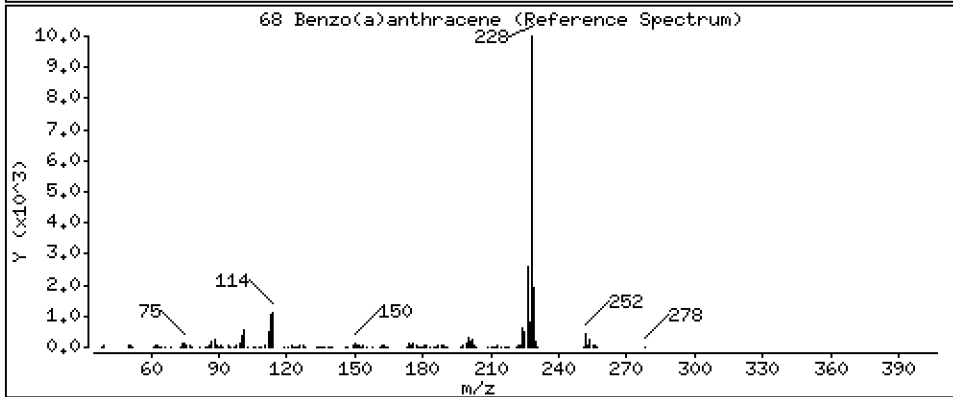
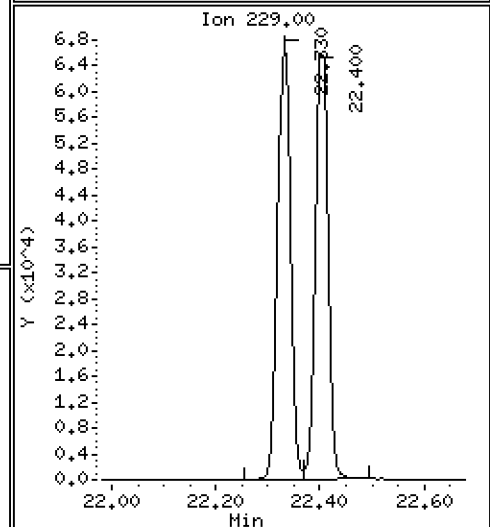
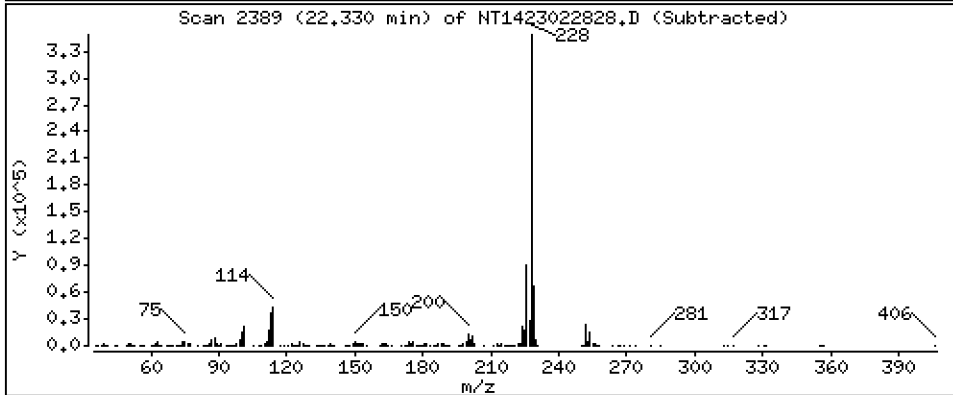
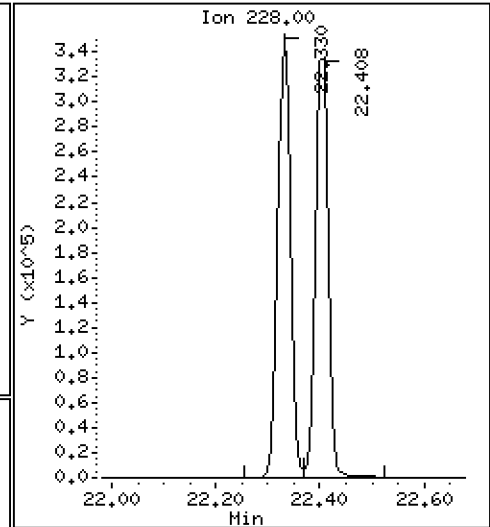
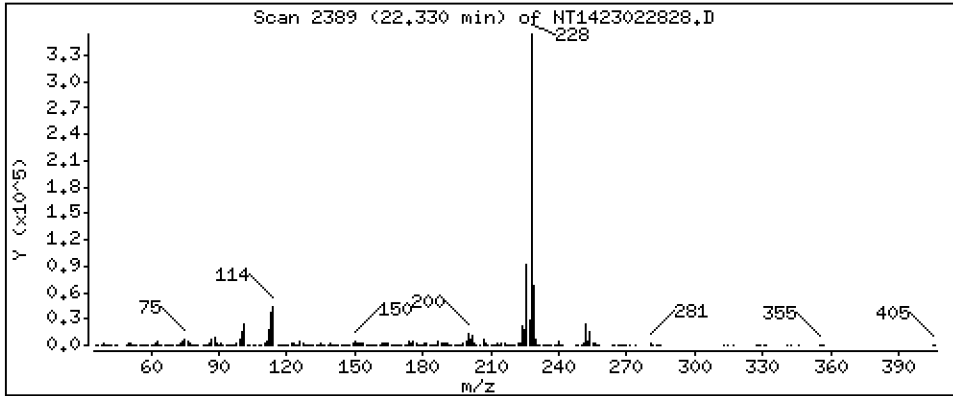
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,951 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

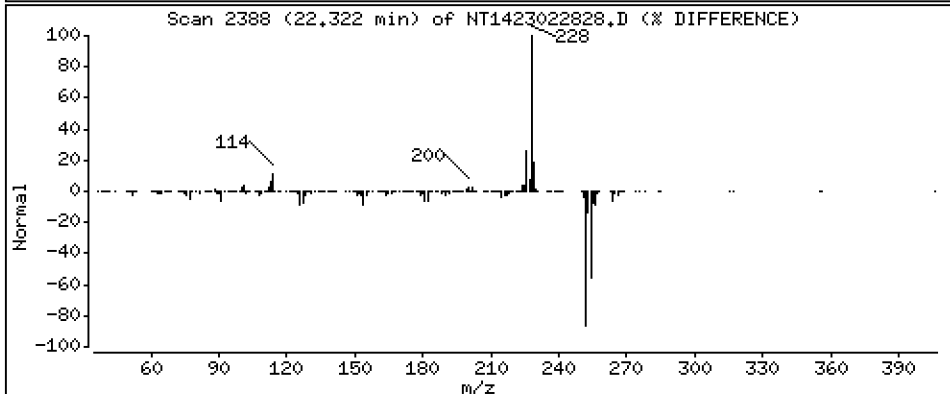
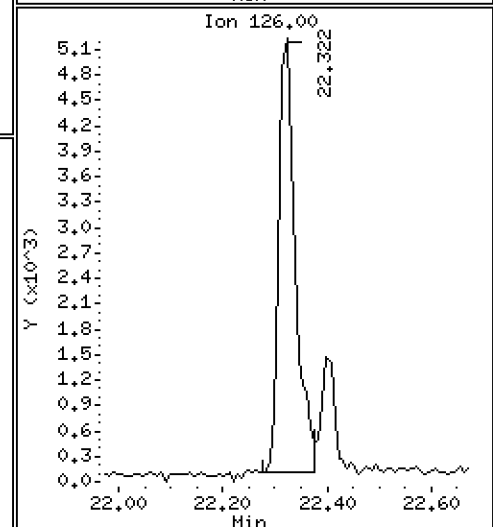
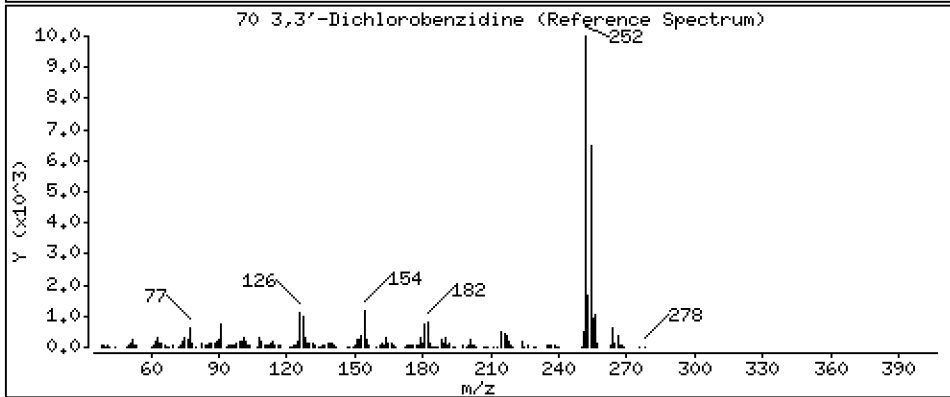
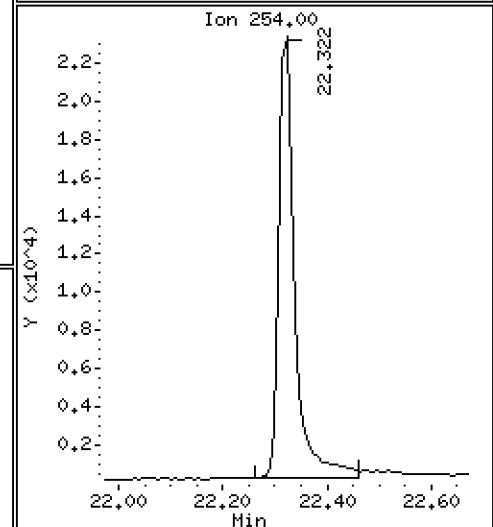
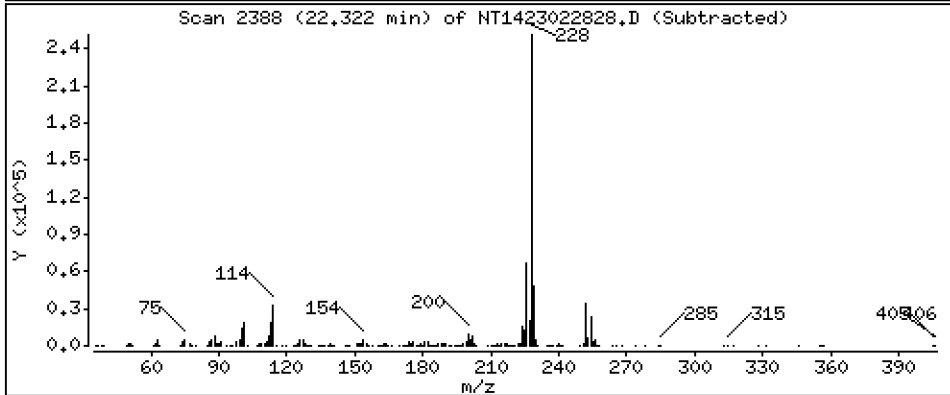
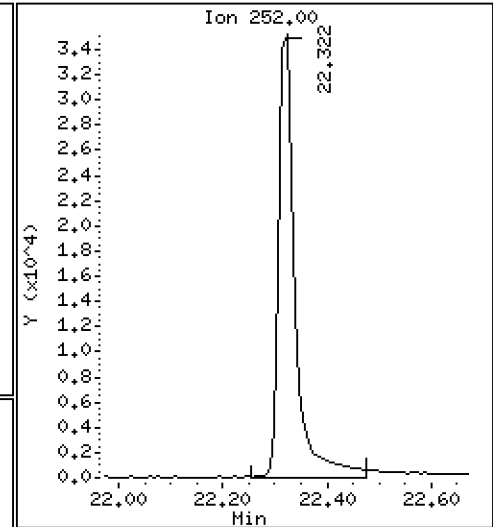
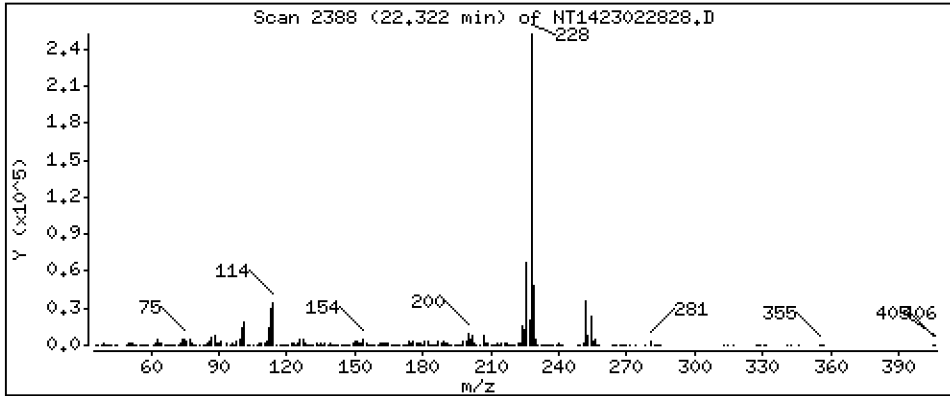
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

70 3,3'-Dichlorobenzidine

Concentration: 2,242 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

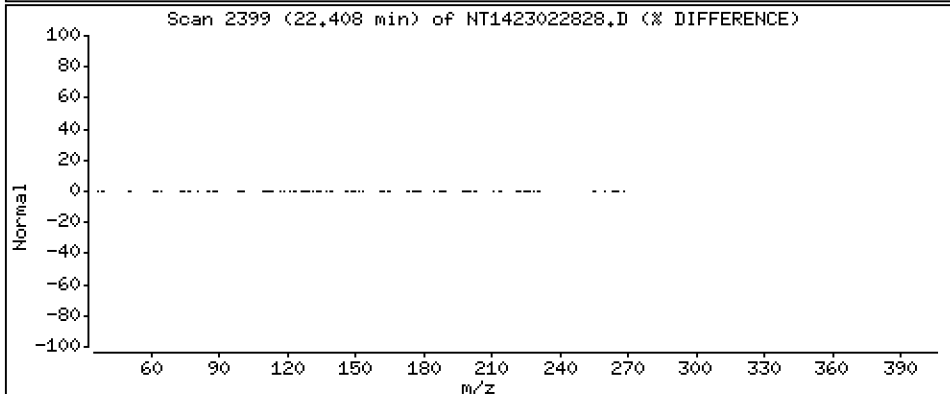
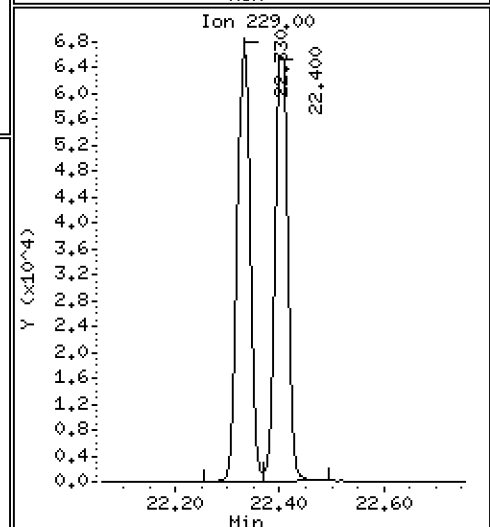
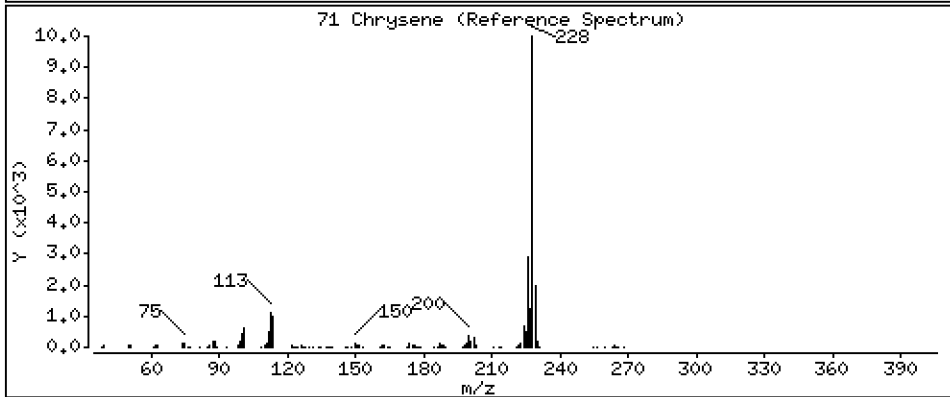
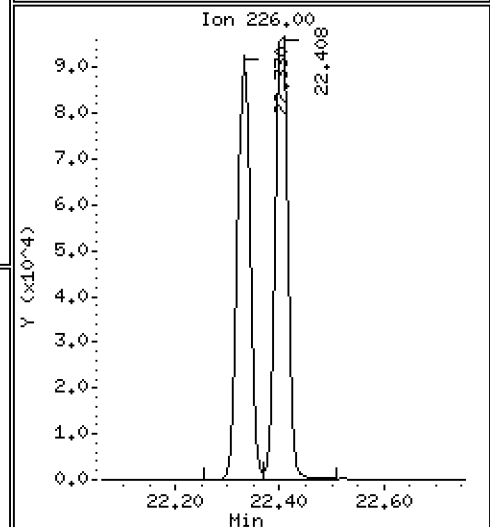
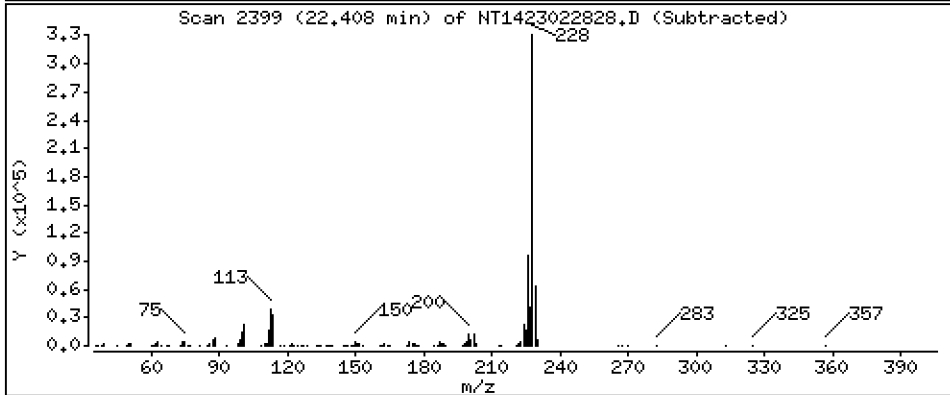
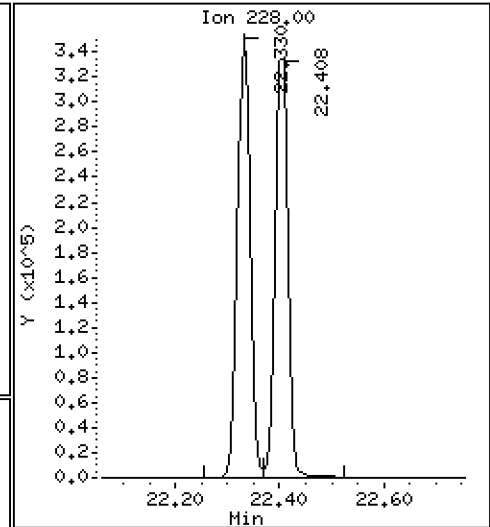
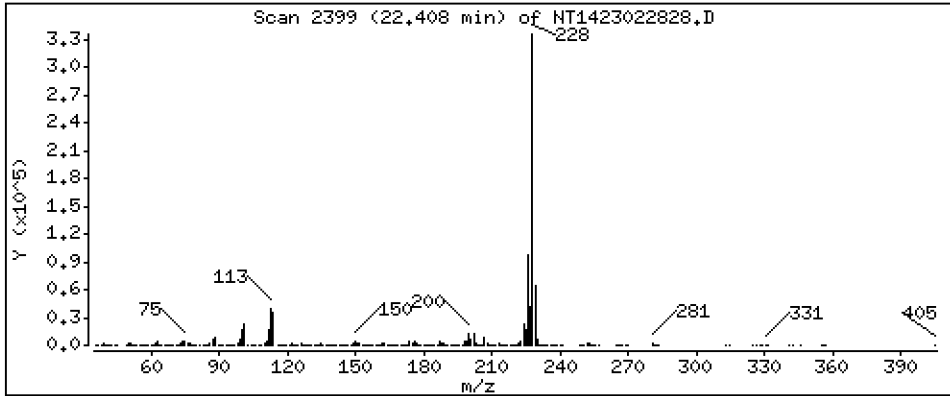
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,837 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

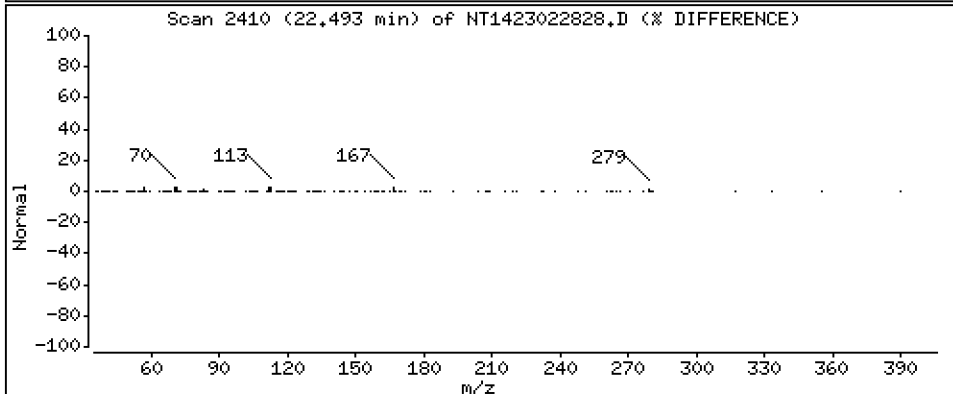
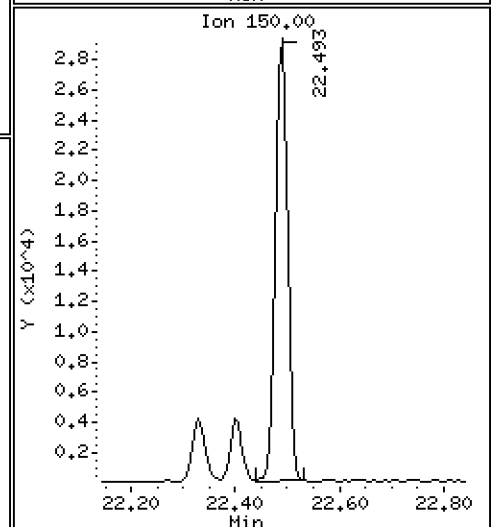
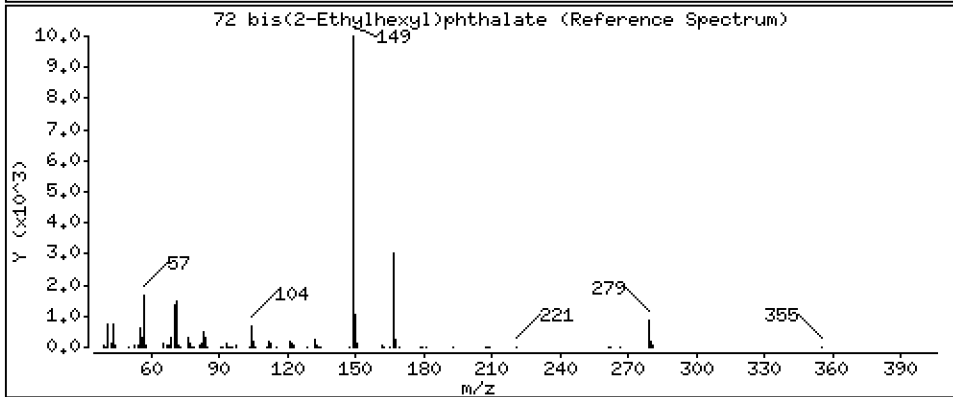
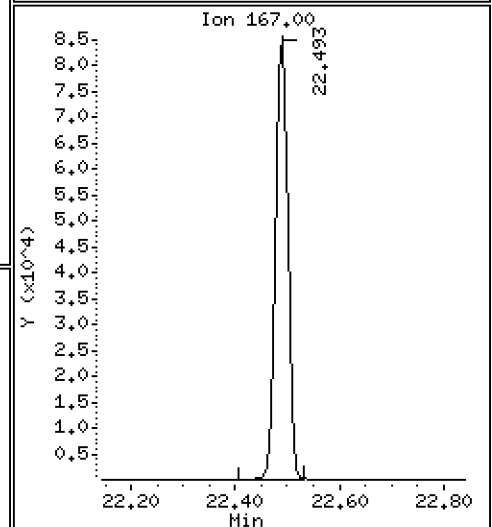
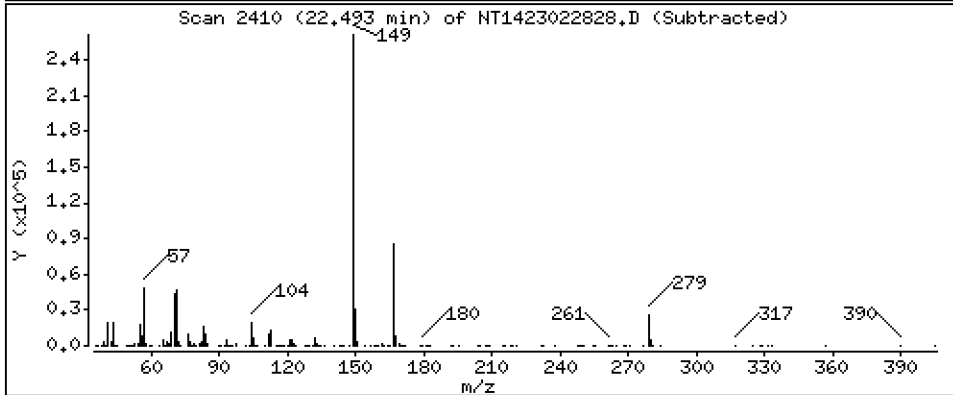
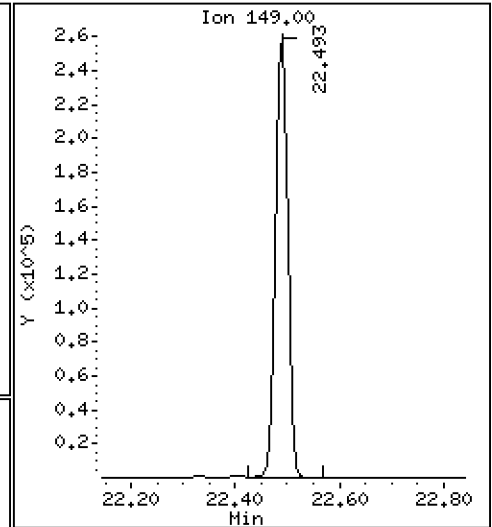
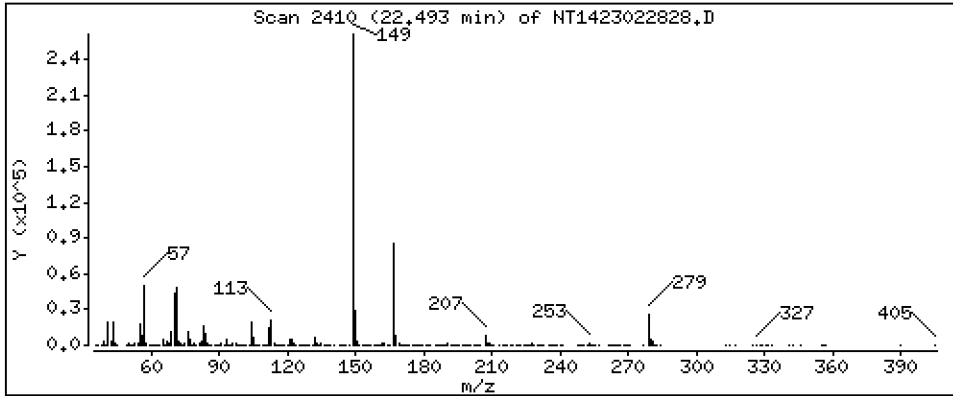
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,218 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

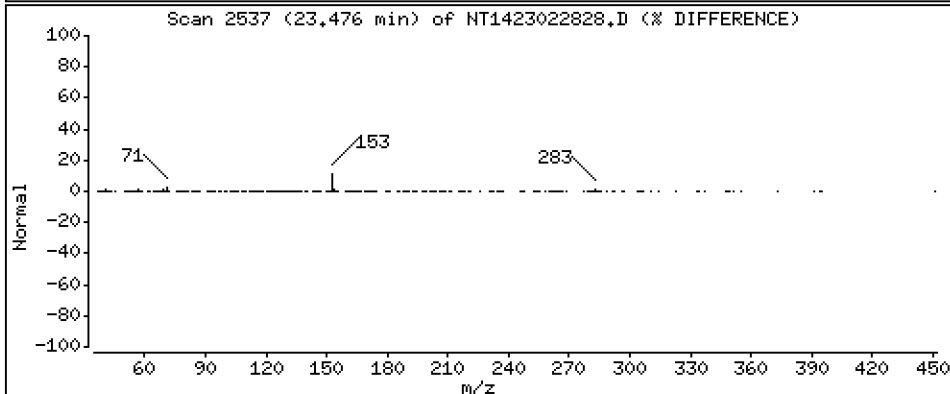
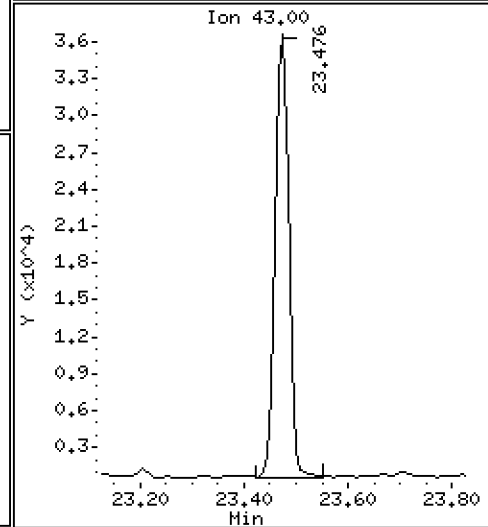
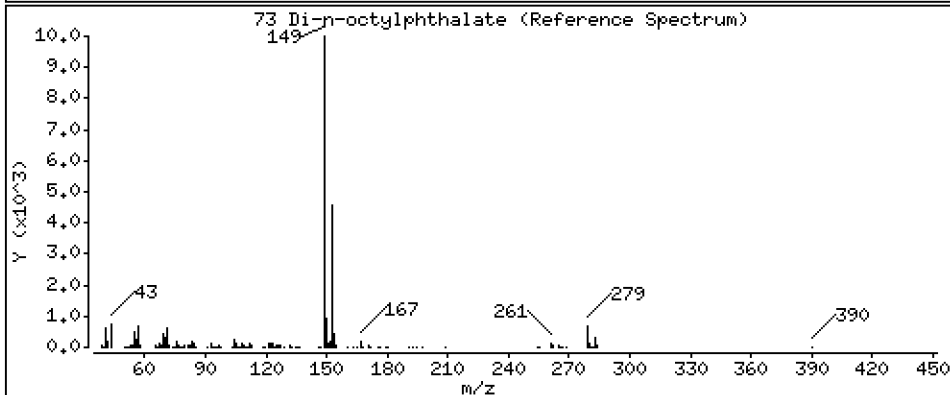
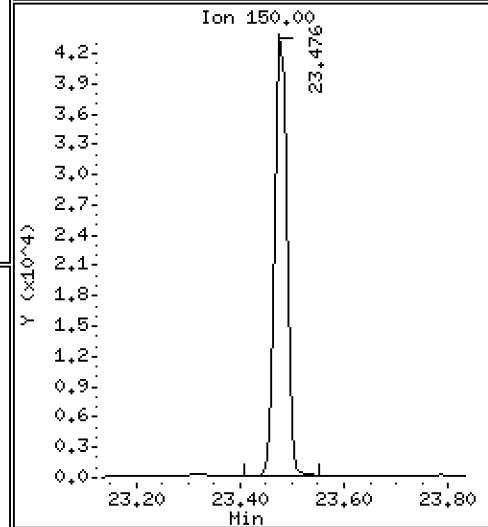
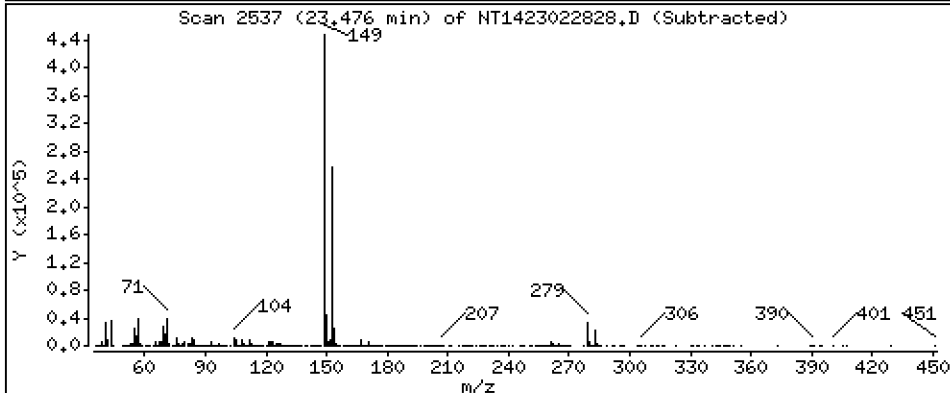
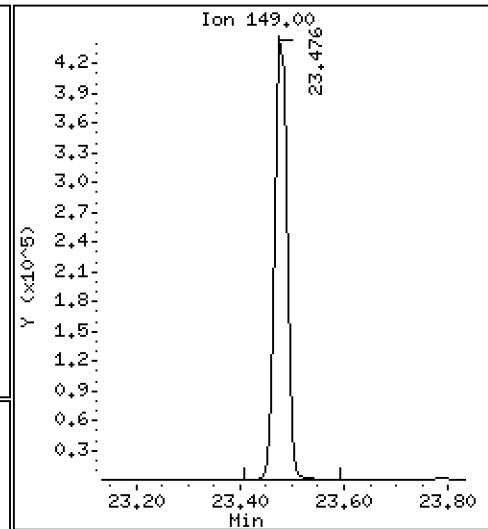
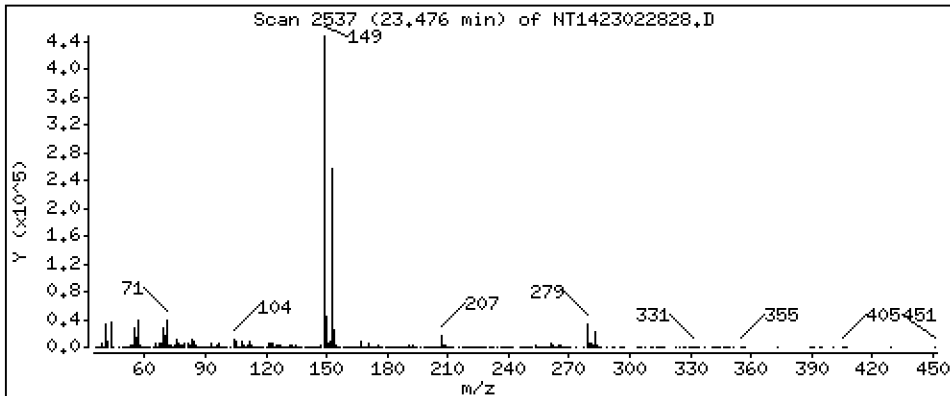
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,152 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

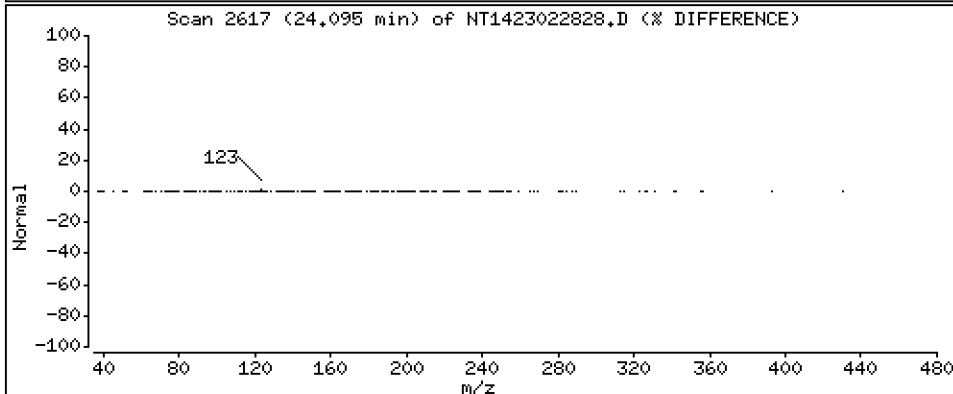
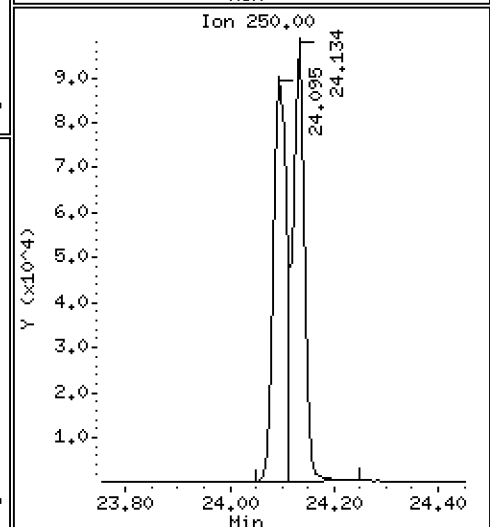
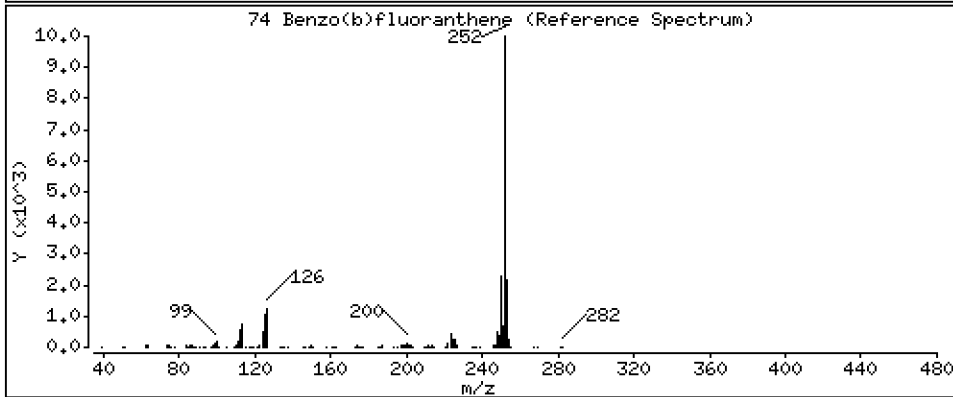
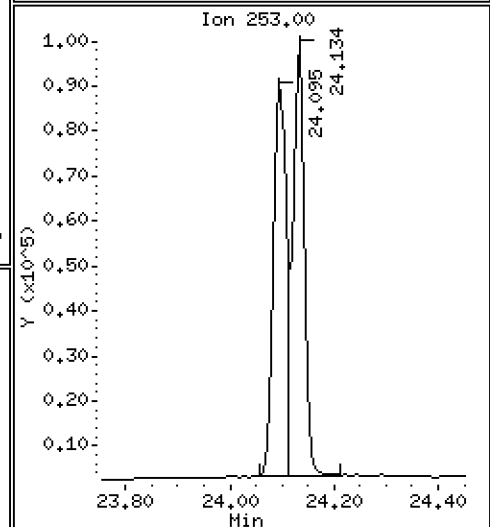
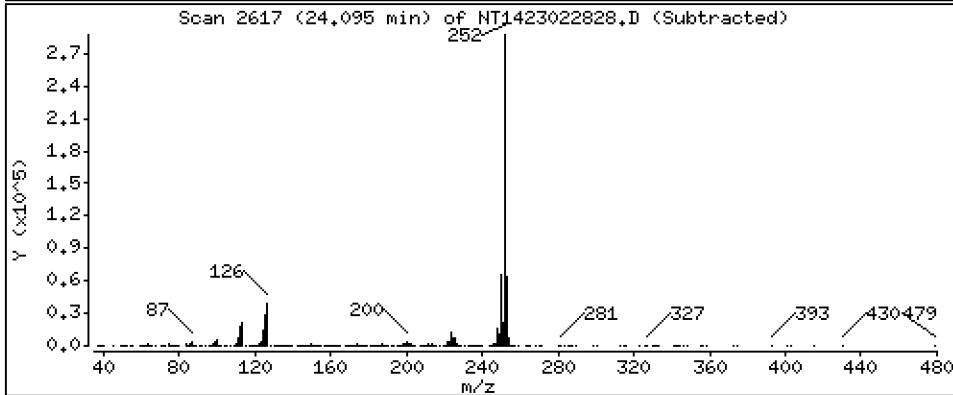
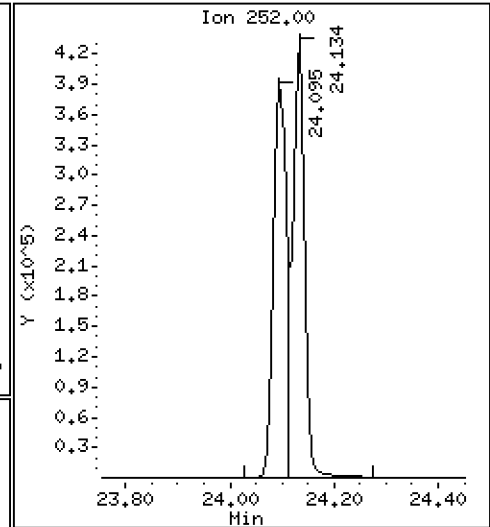
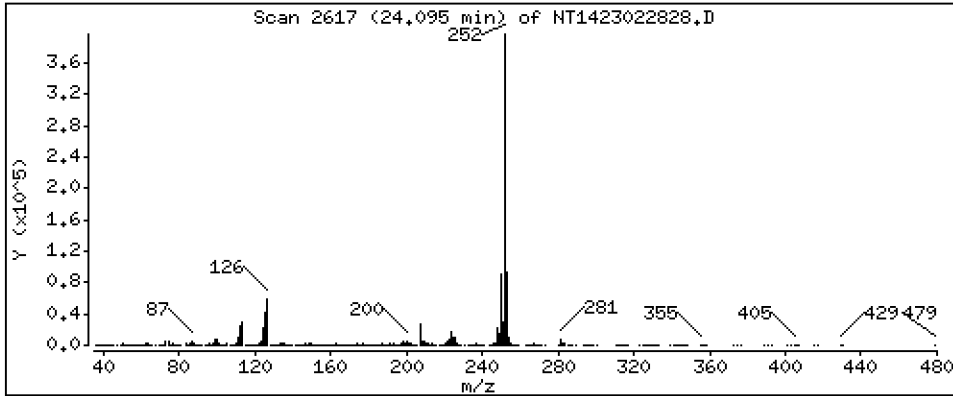
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,898 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

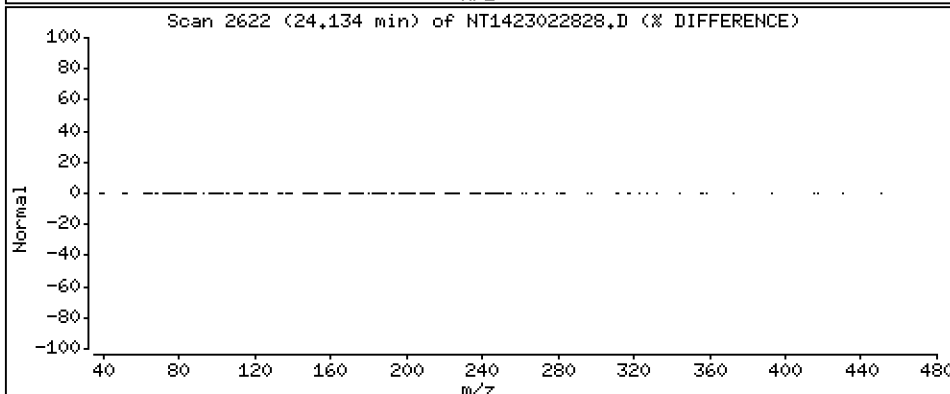
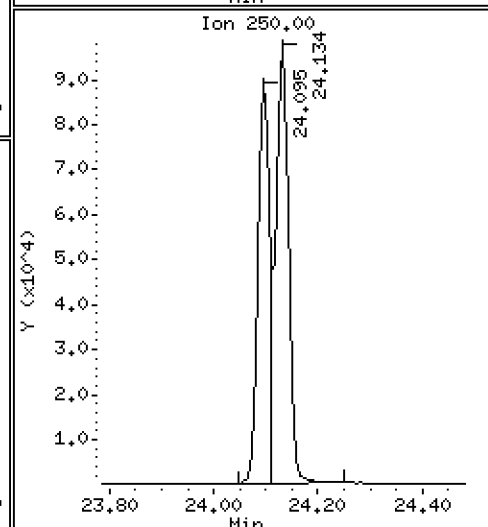
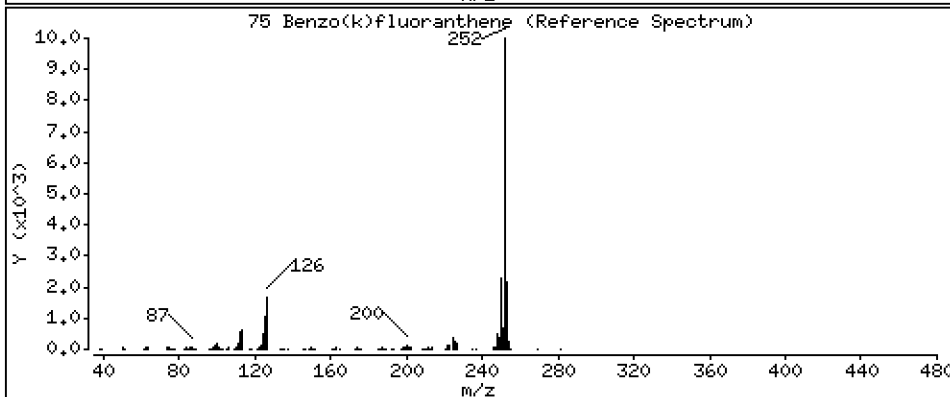
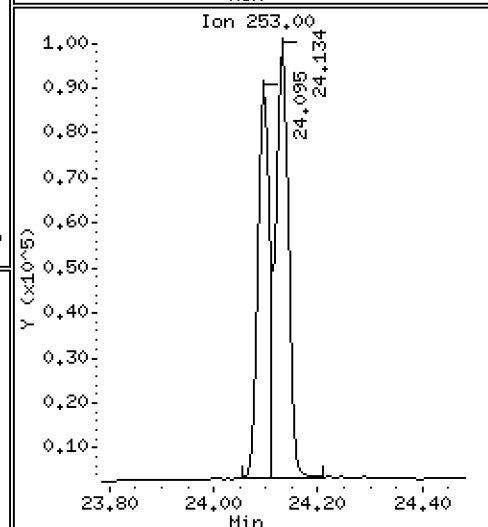
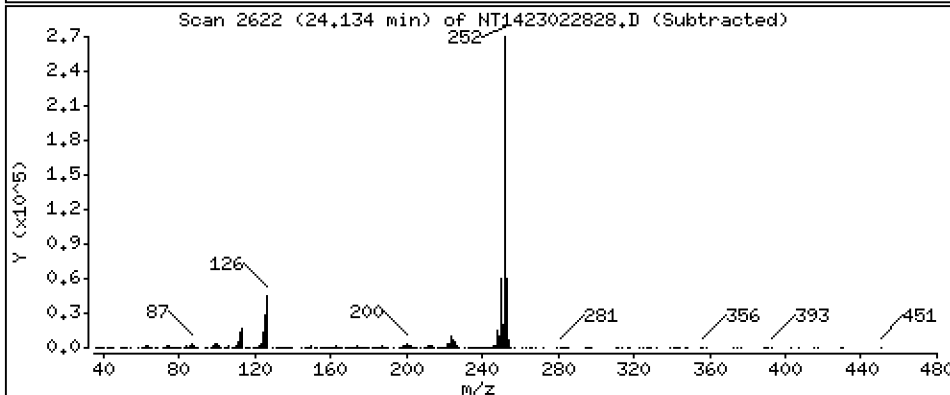
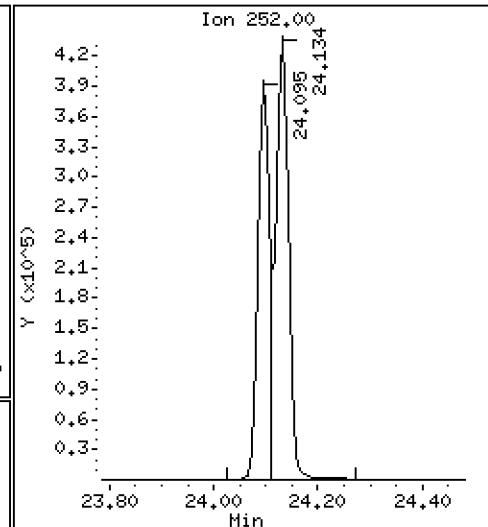
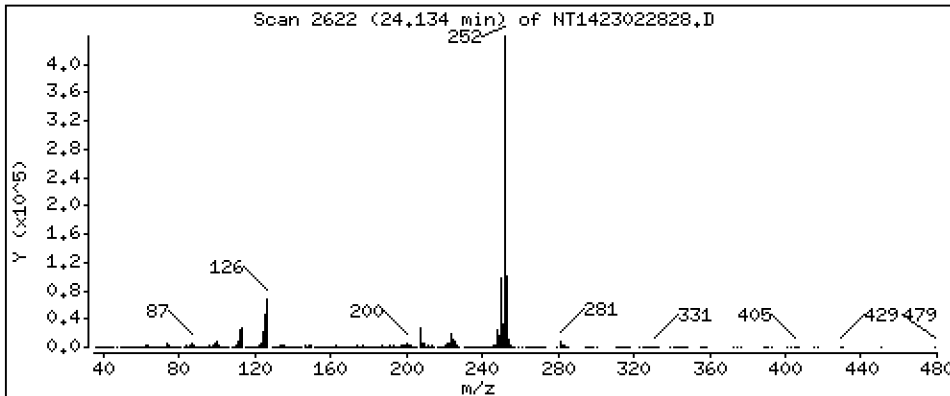
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 5,377 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

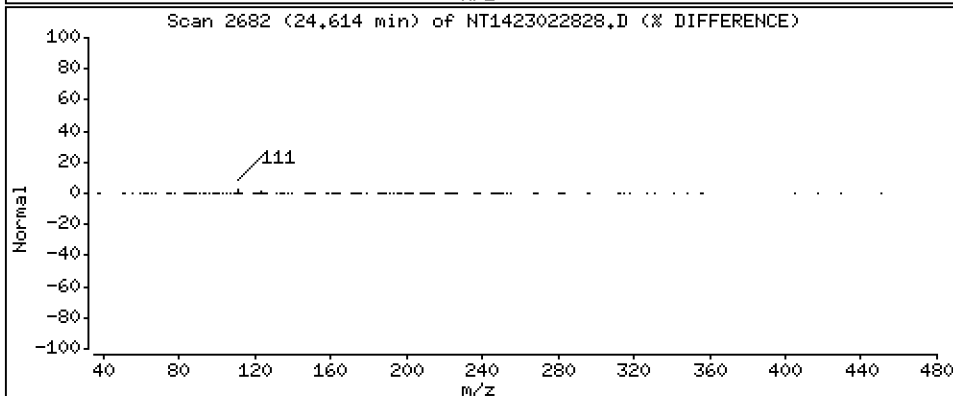
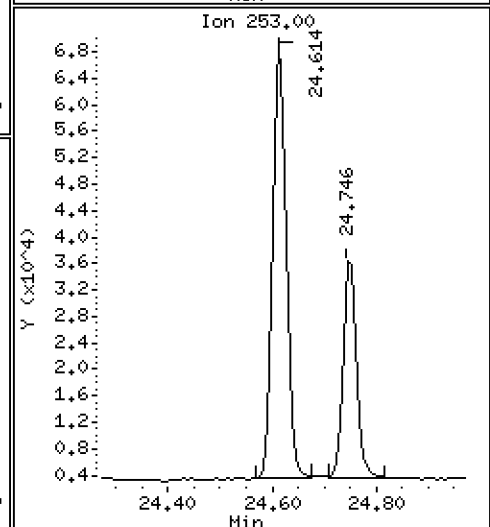
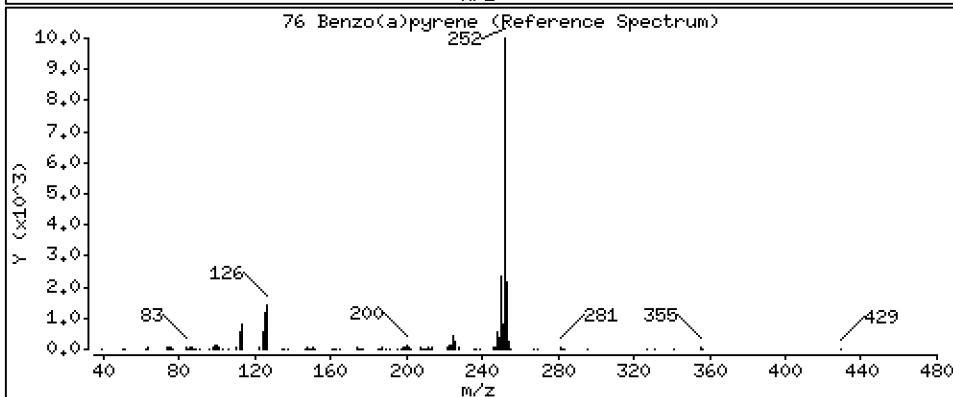
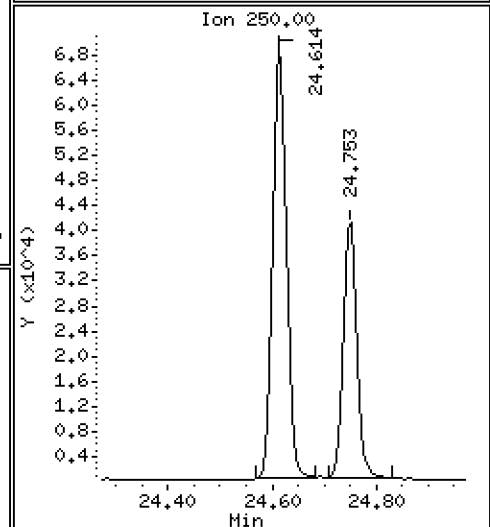
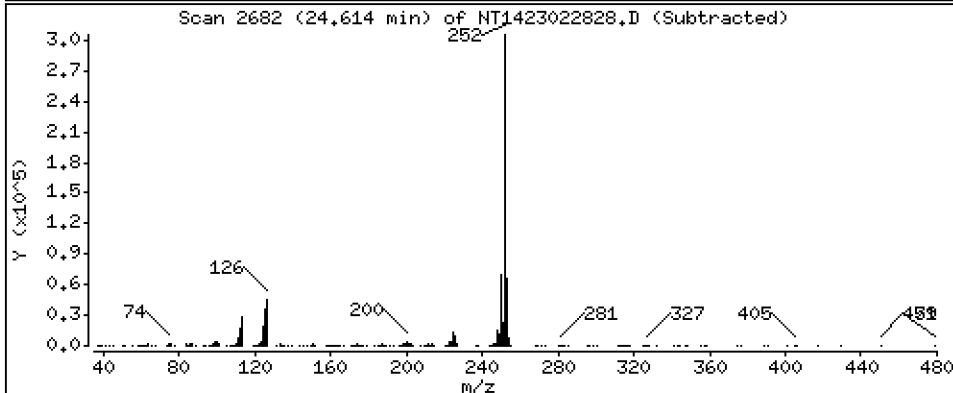
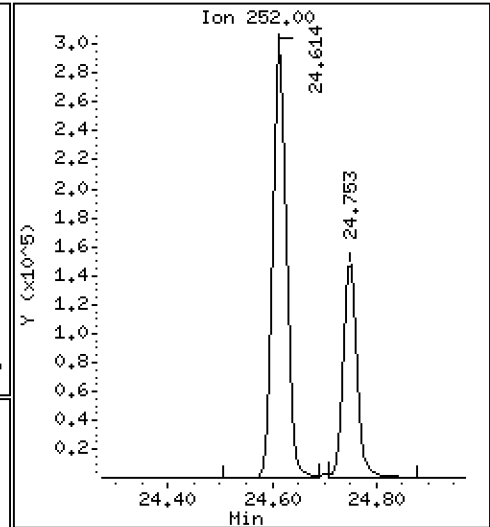
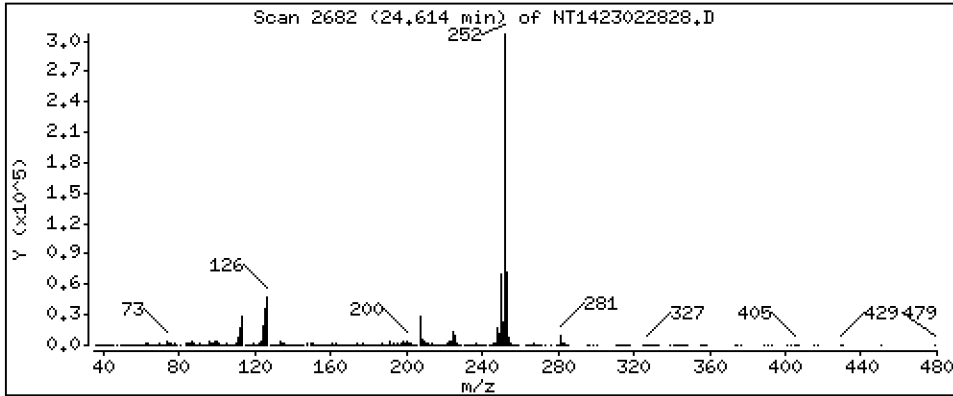
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,725 ug/mL





Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

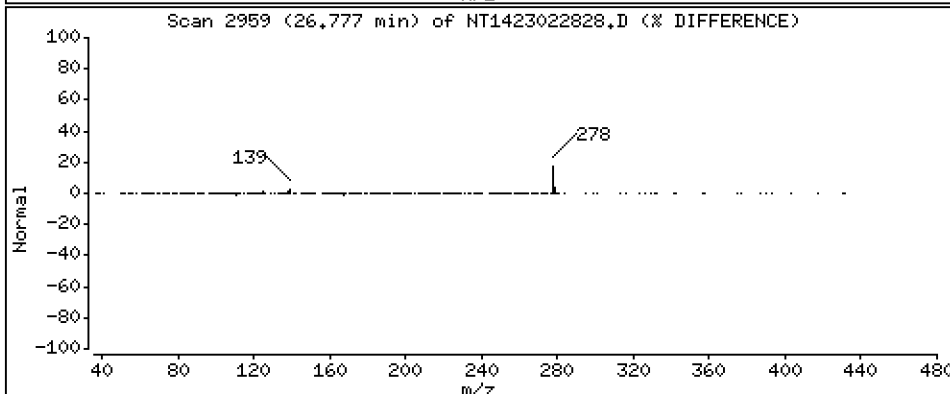
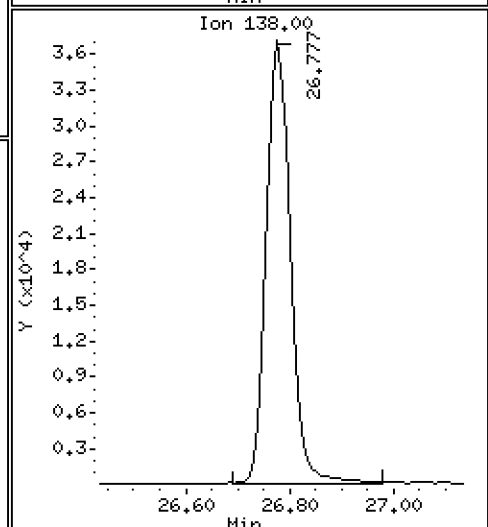
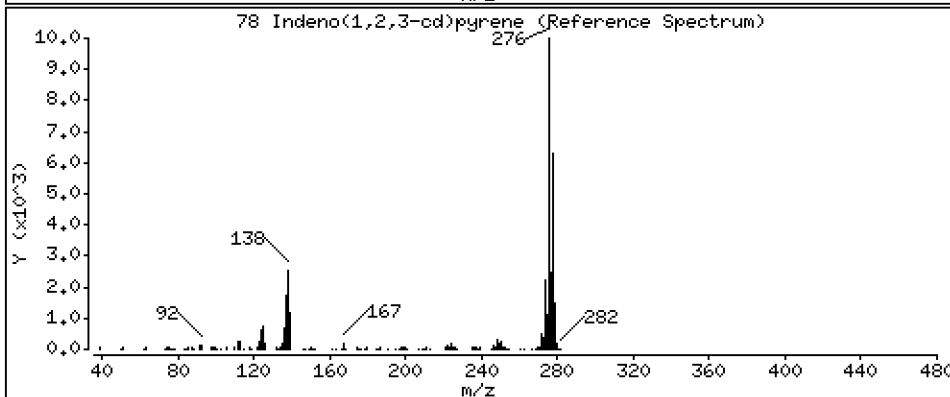
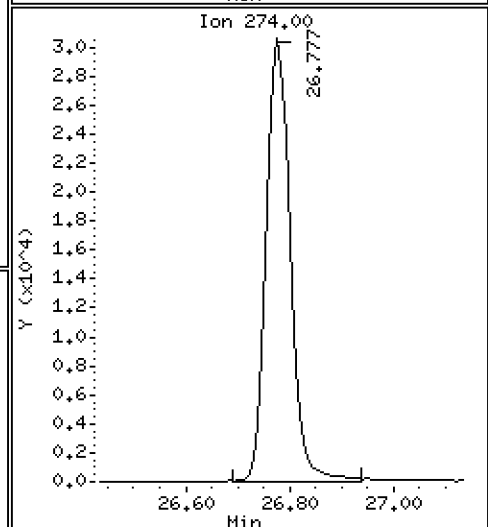
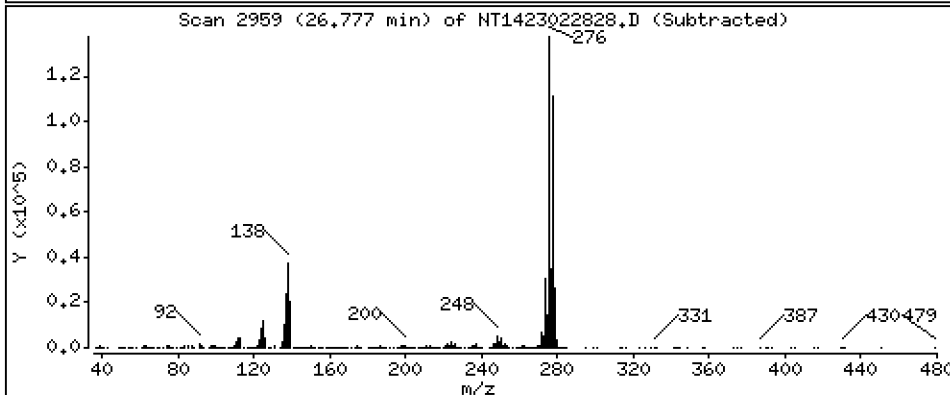
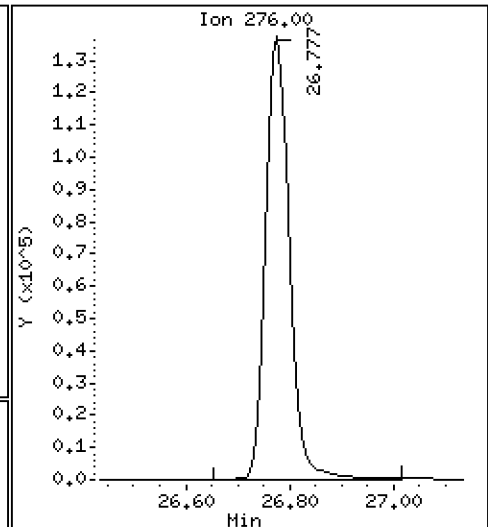
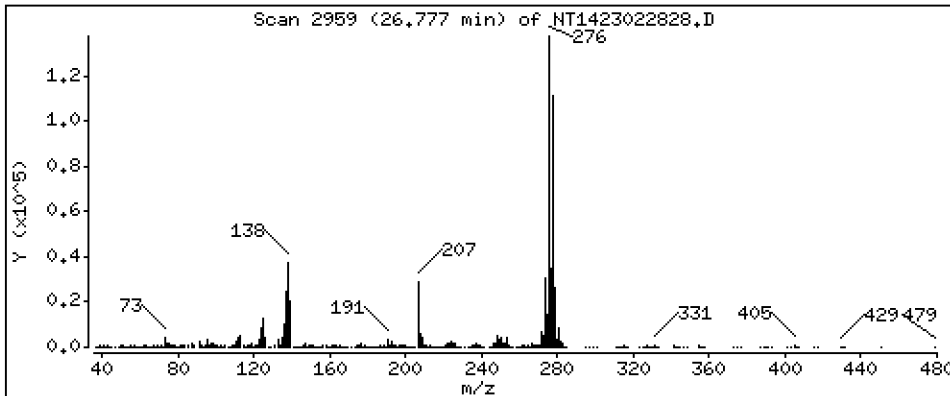
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 3,056 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

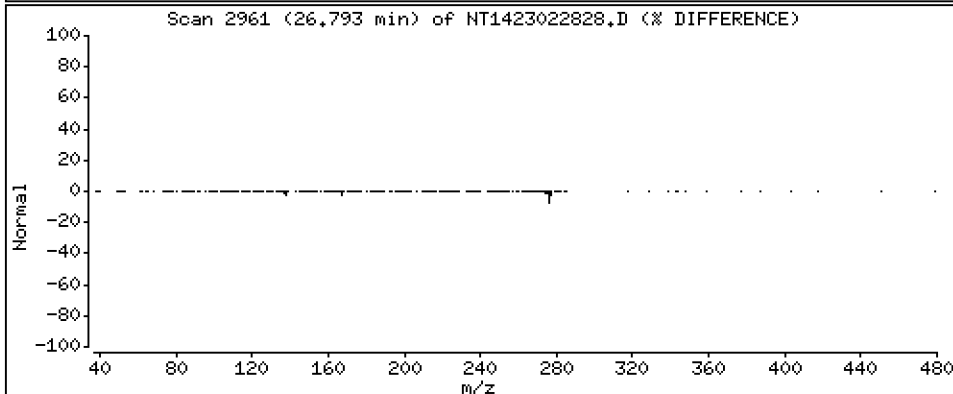
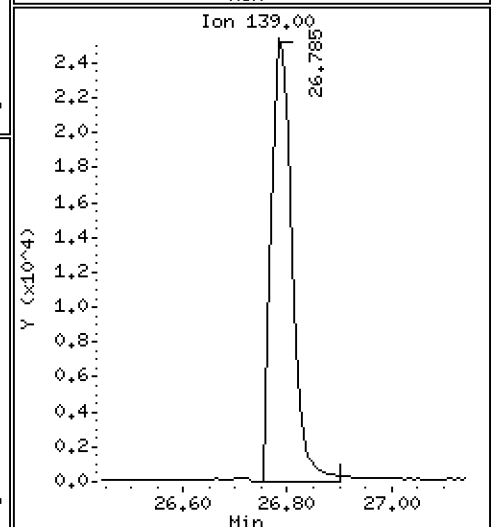
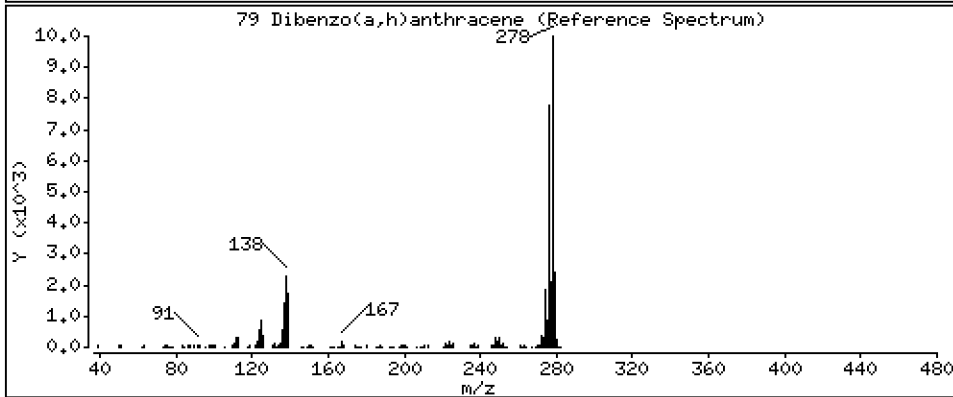
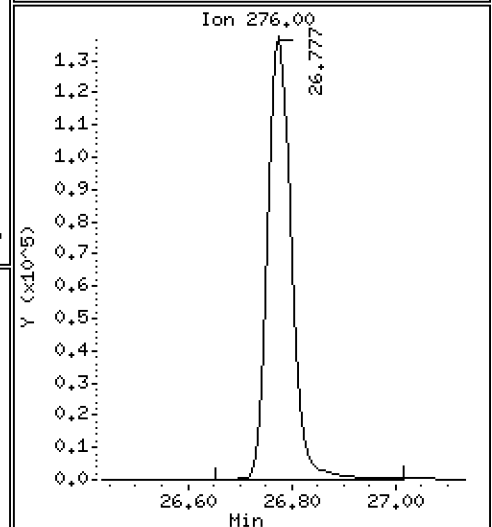
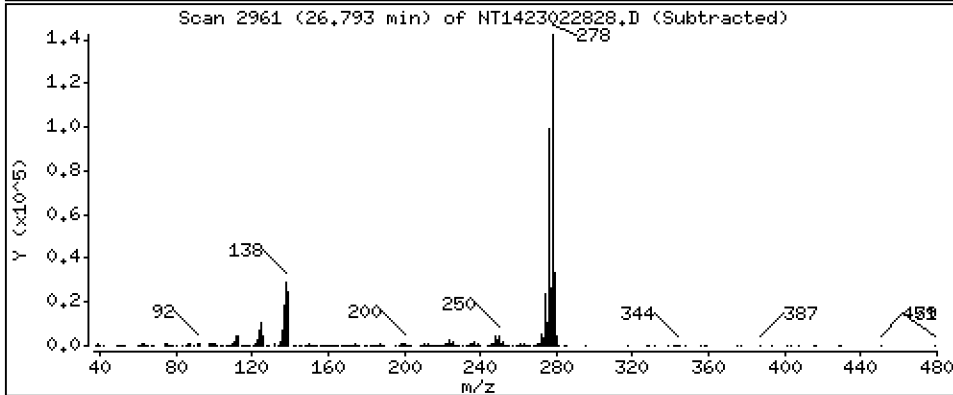
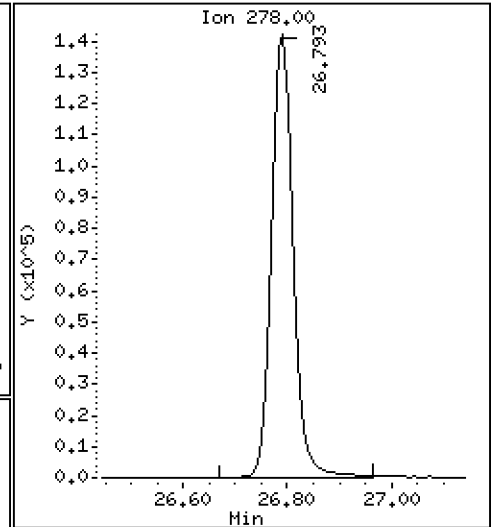
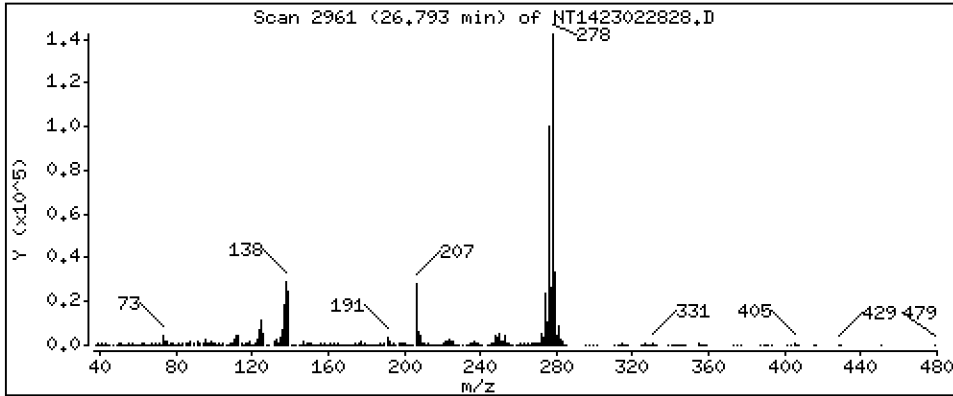
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 3,344 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

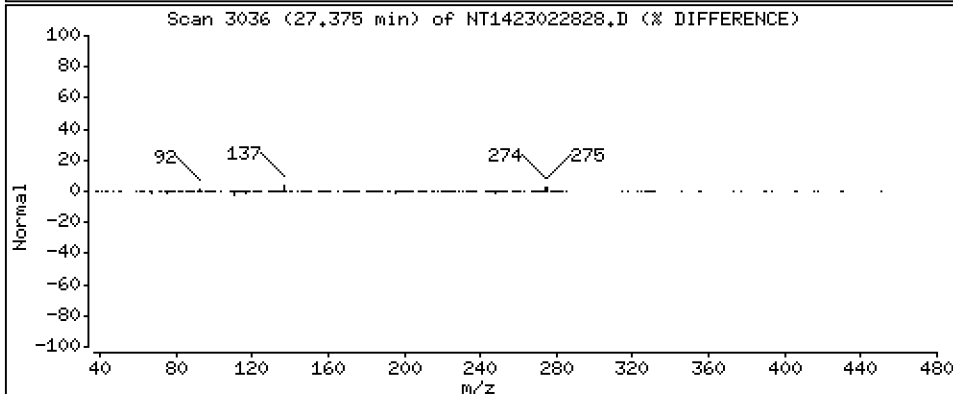
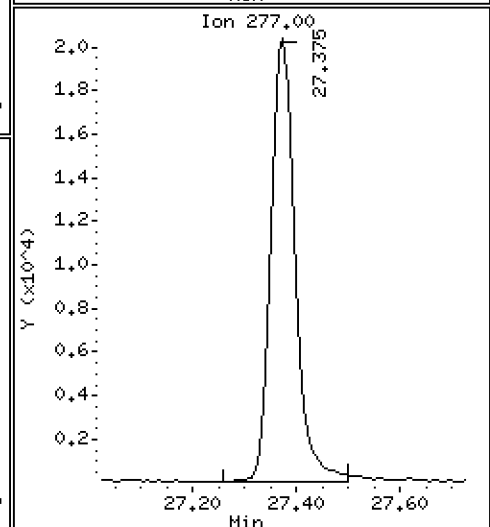
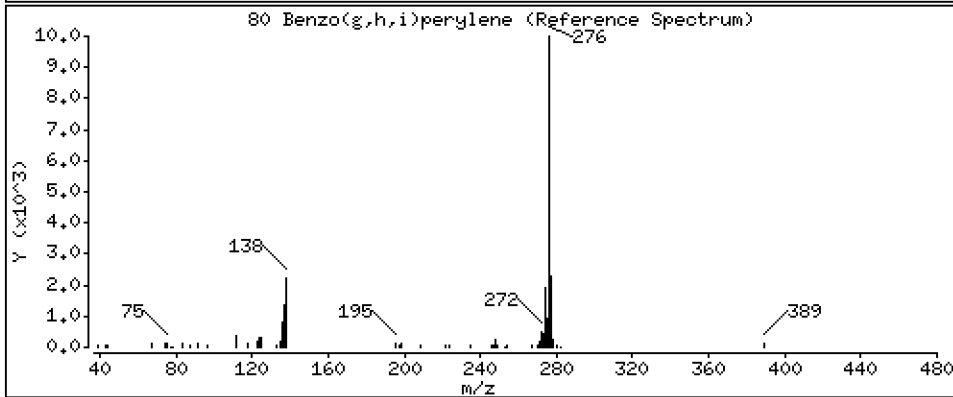
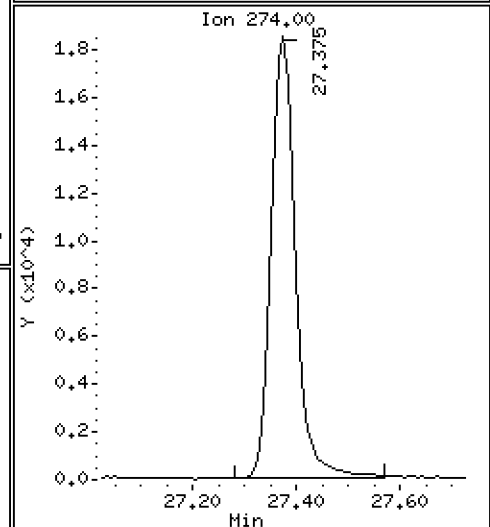
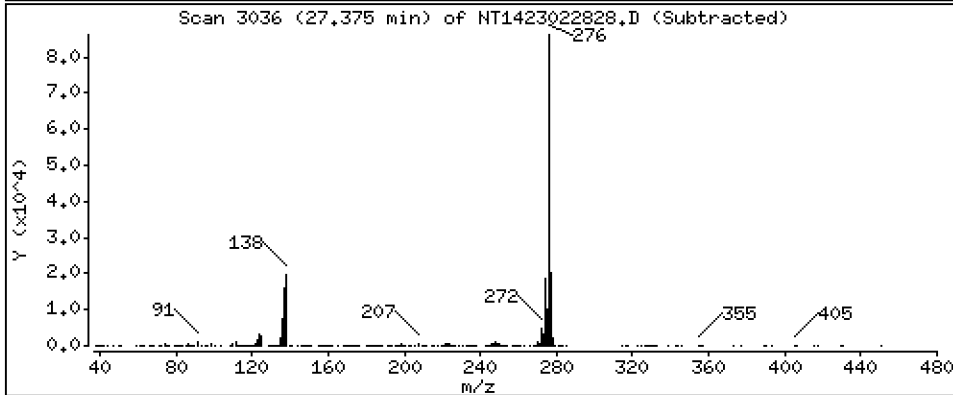
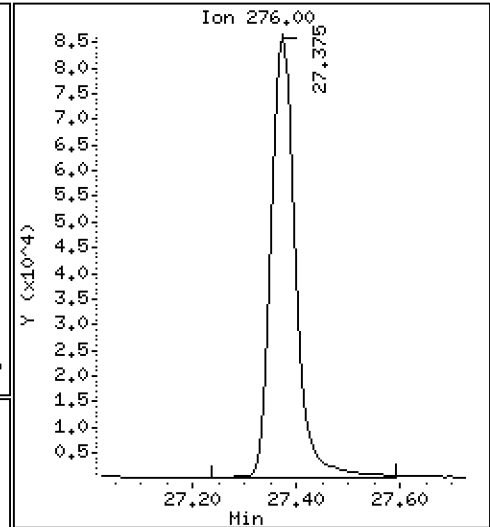
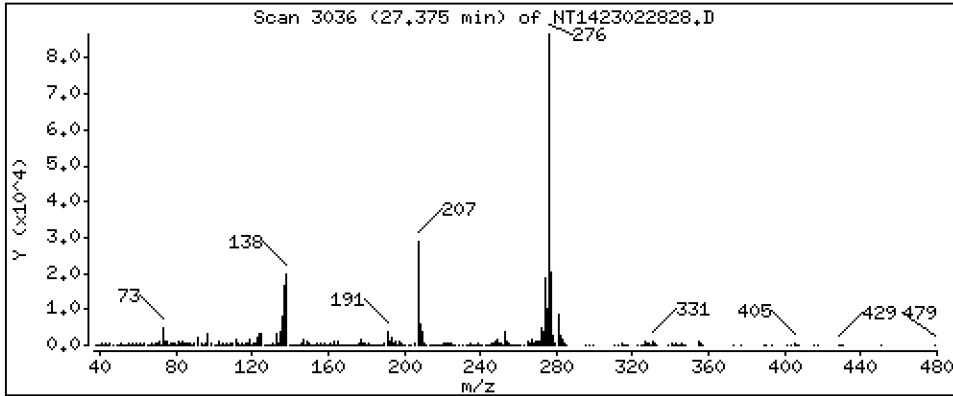
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 2,244 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

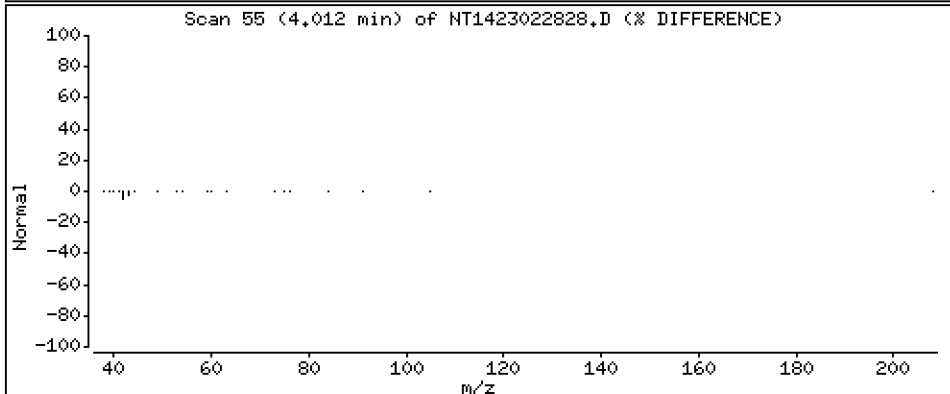
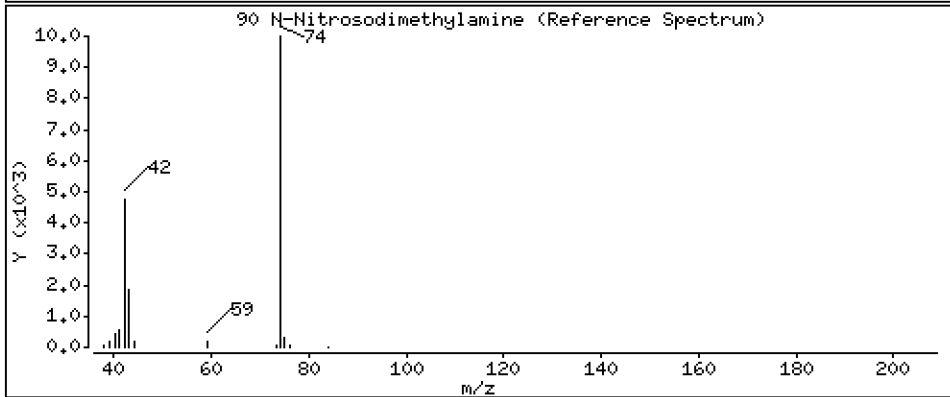
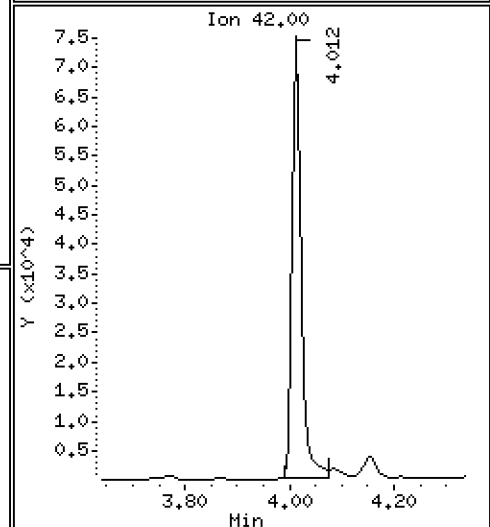
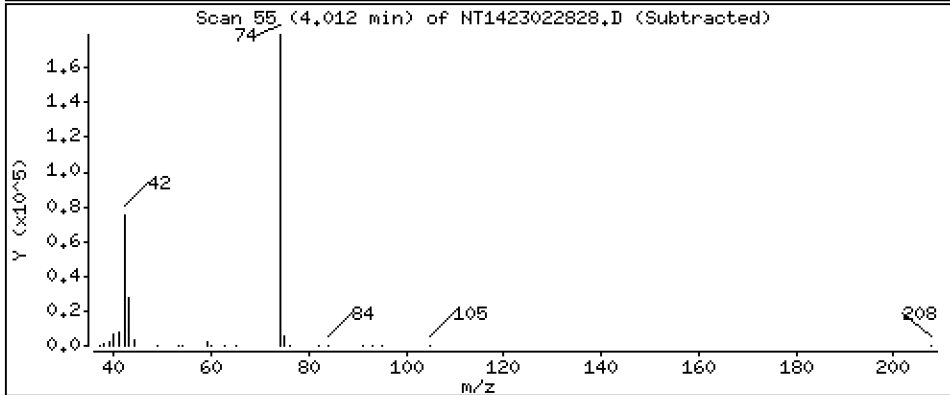
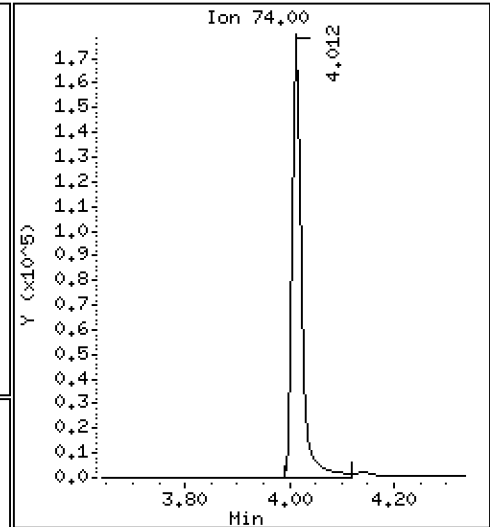
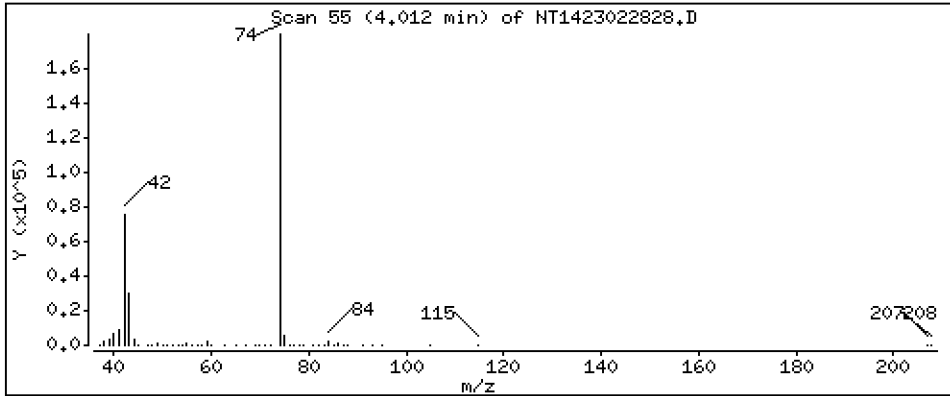
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 11,25 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

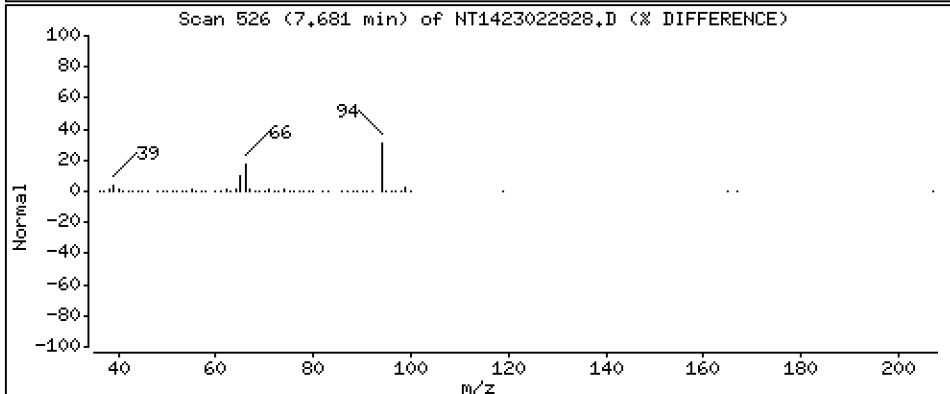
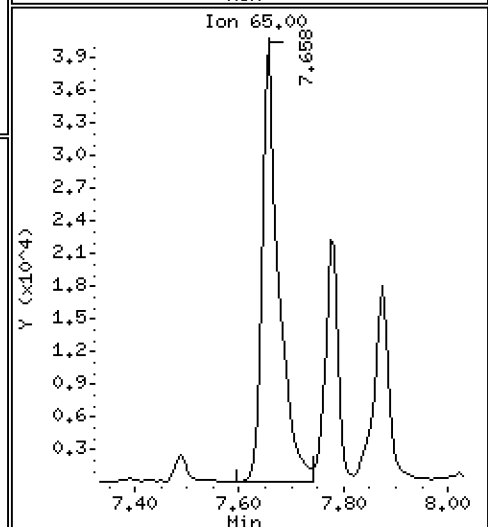
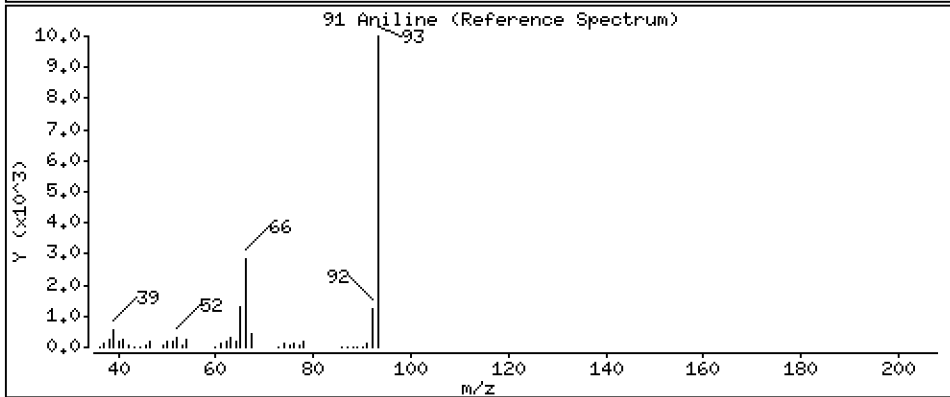
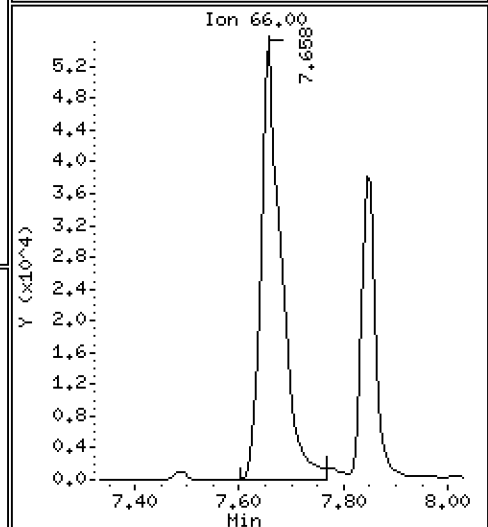
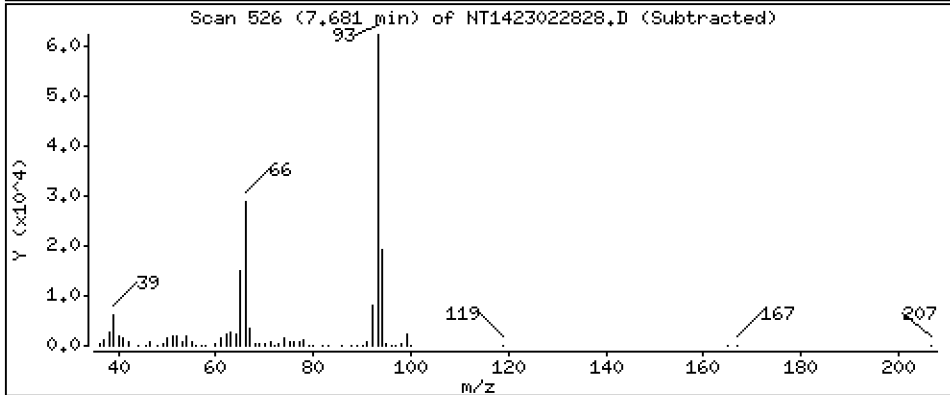
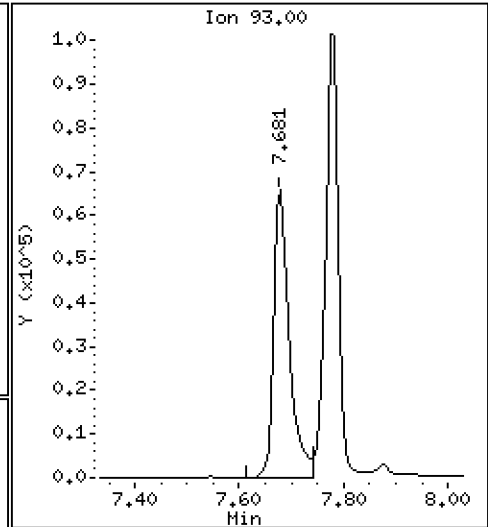
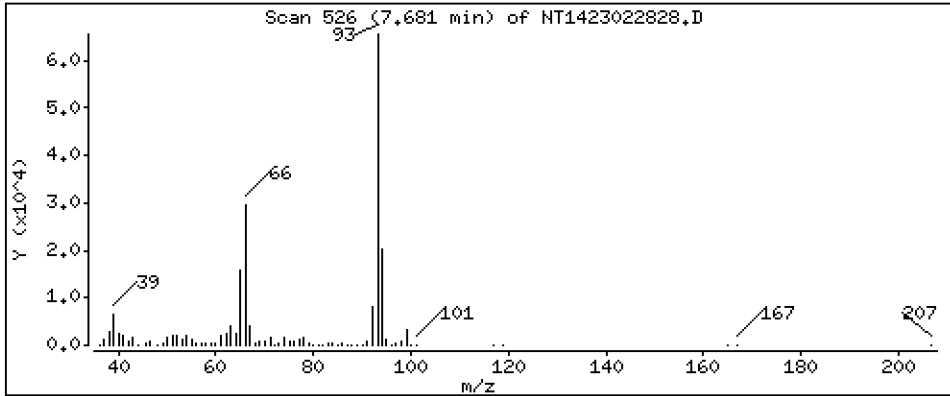
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 2,508 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

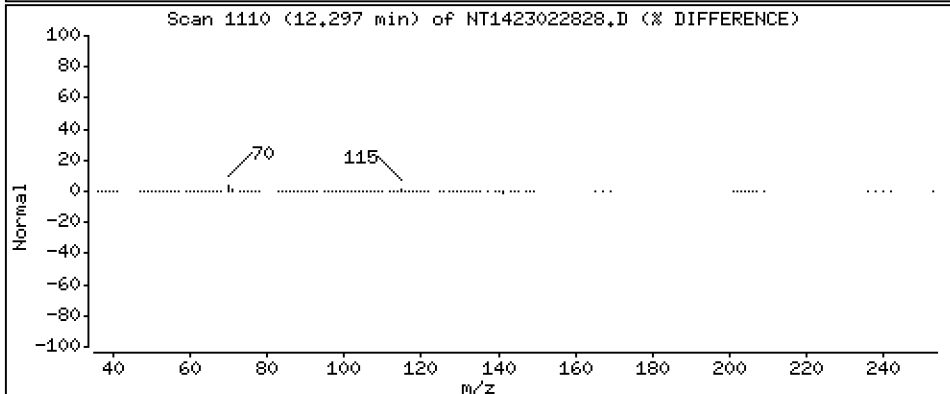
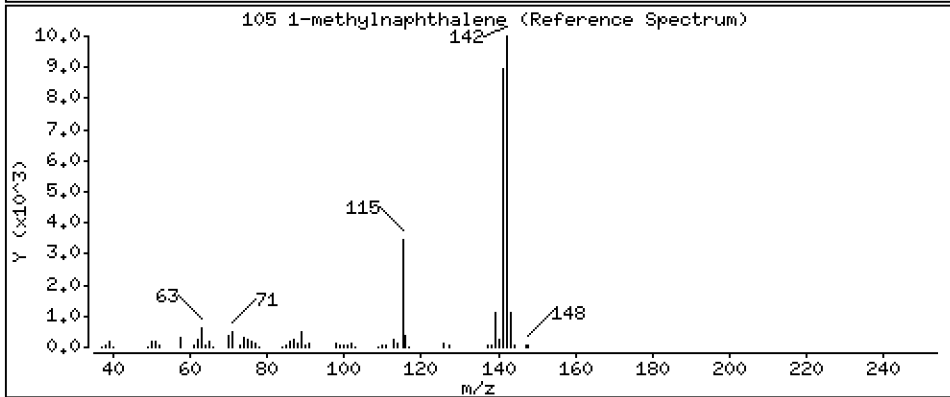
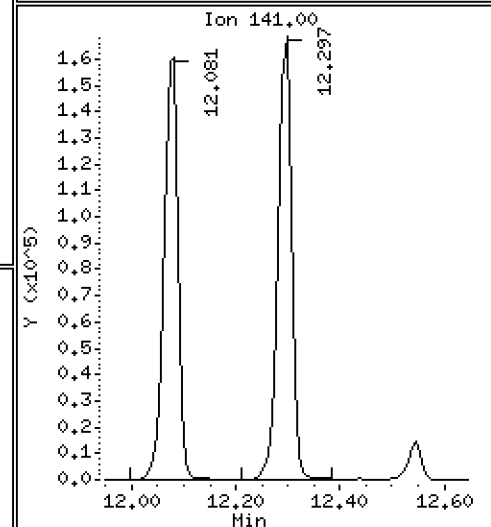
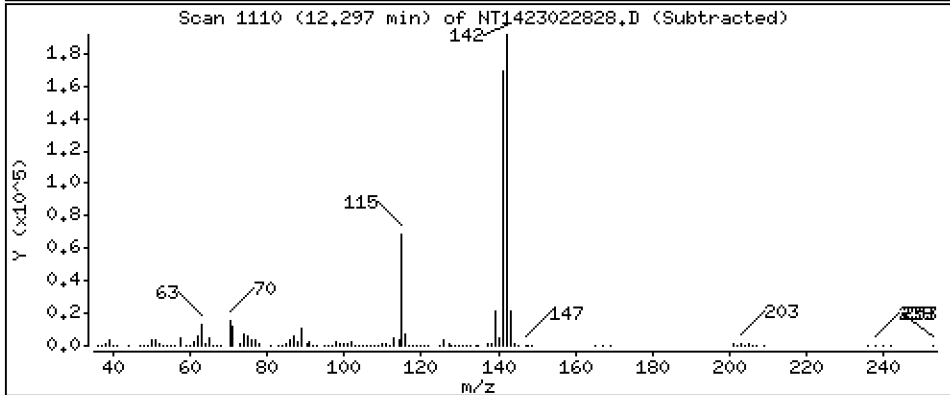
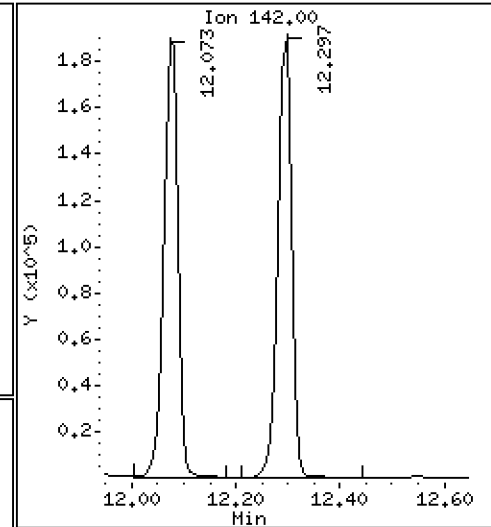
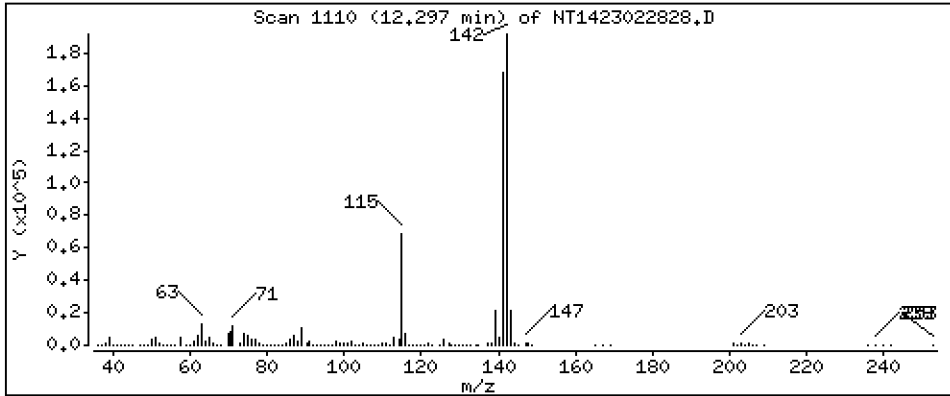
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,448 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

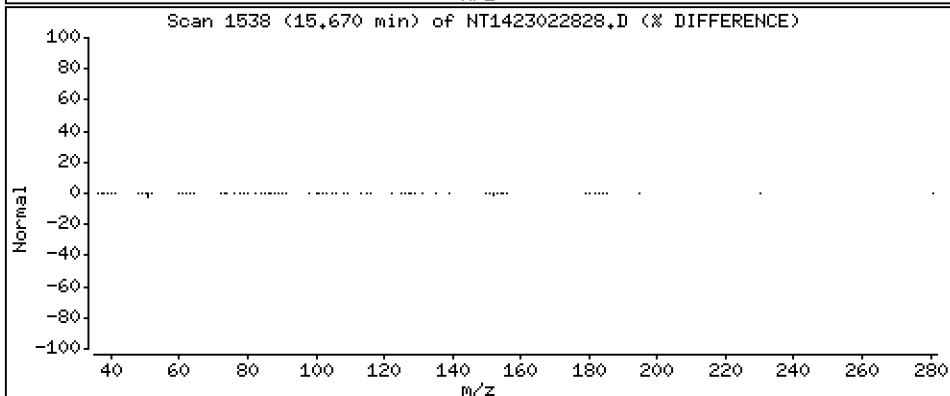
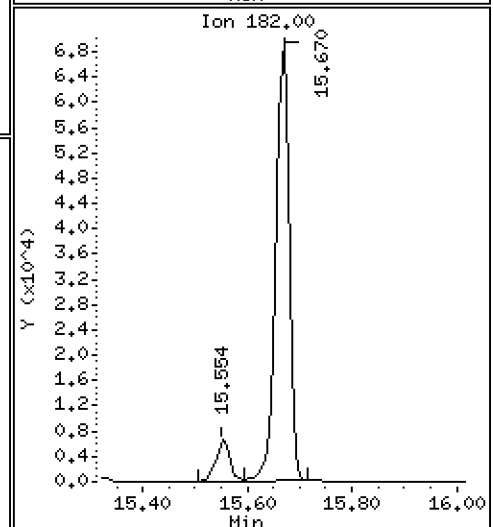
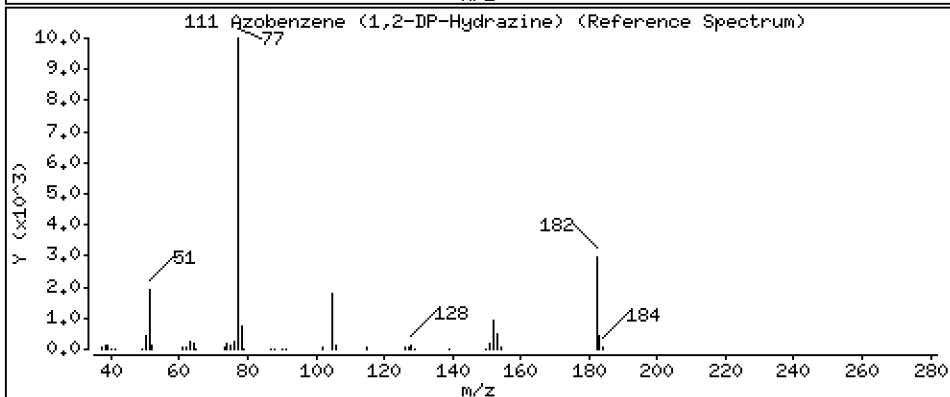
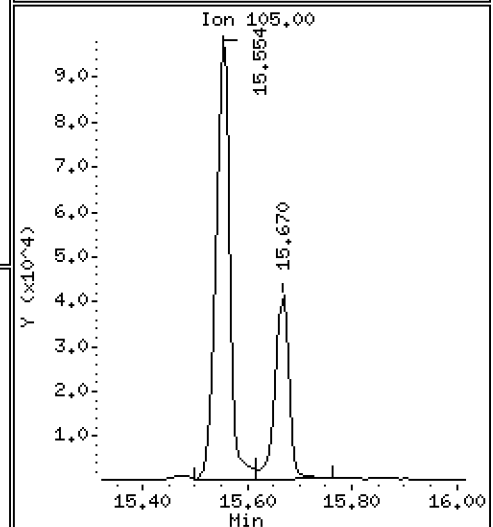
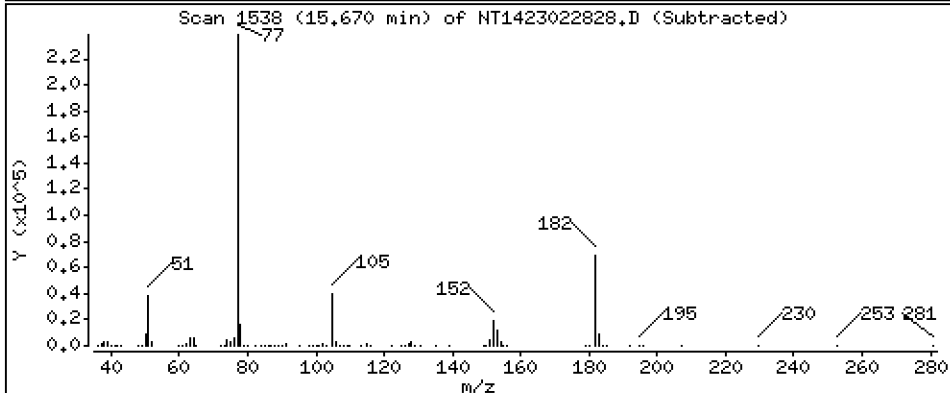
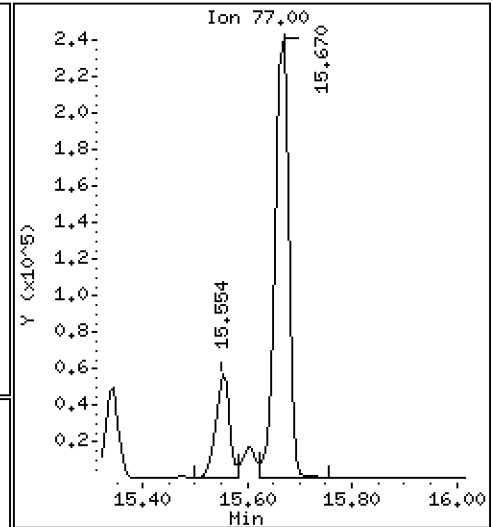
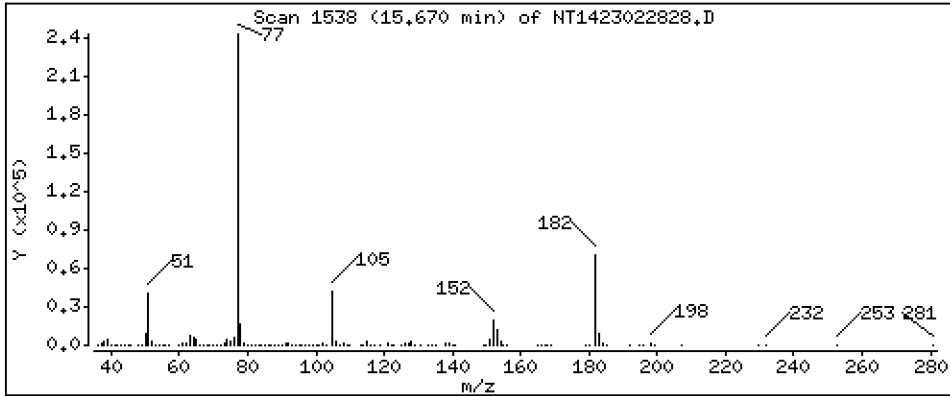
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 5,112 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

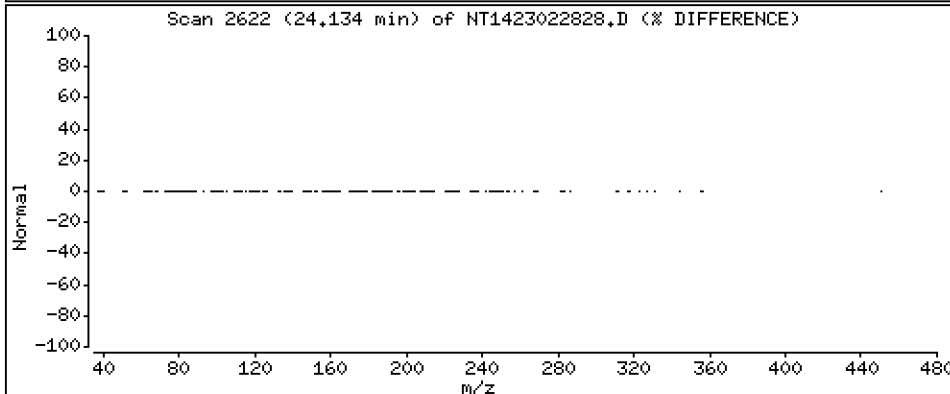
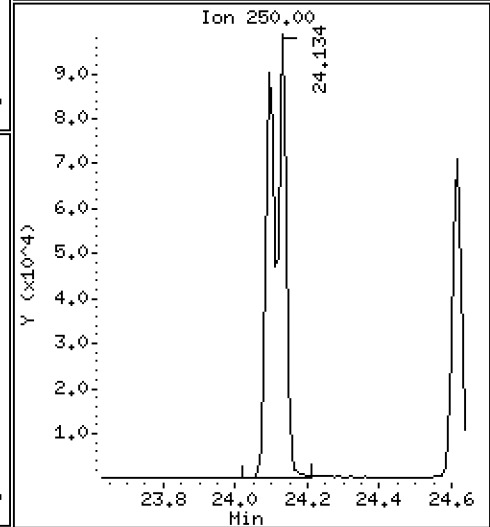
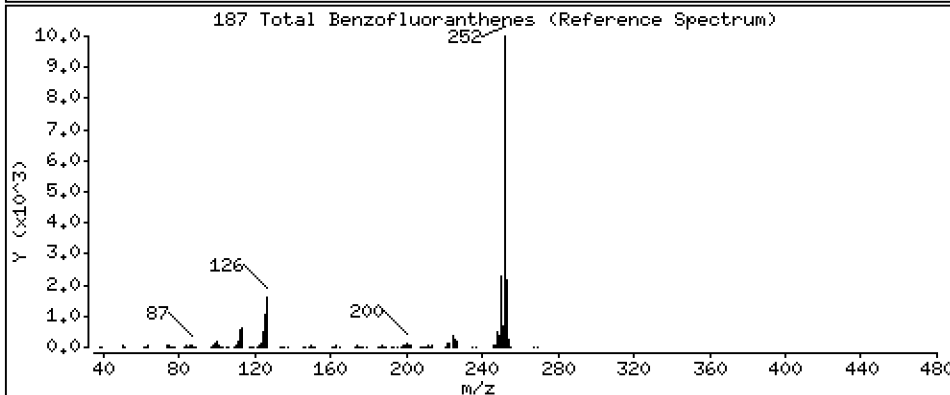
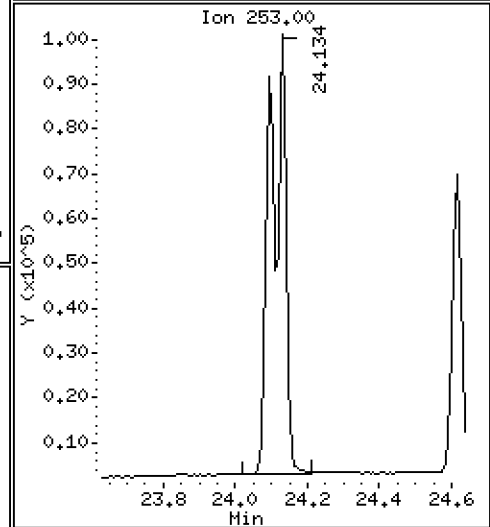
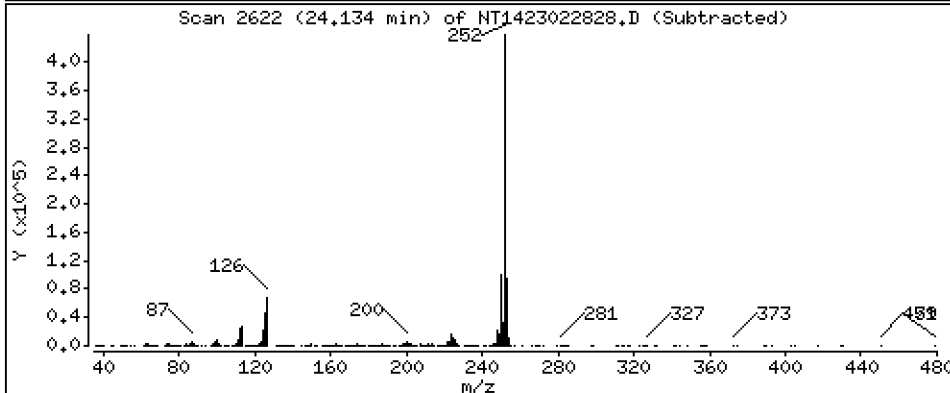
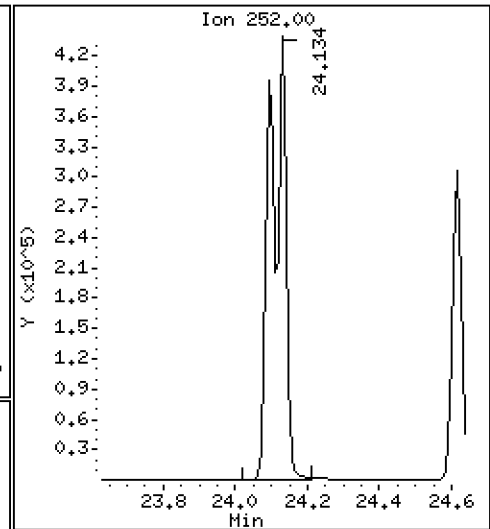
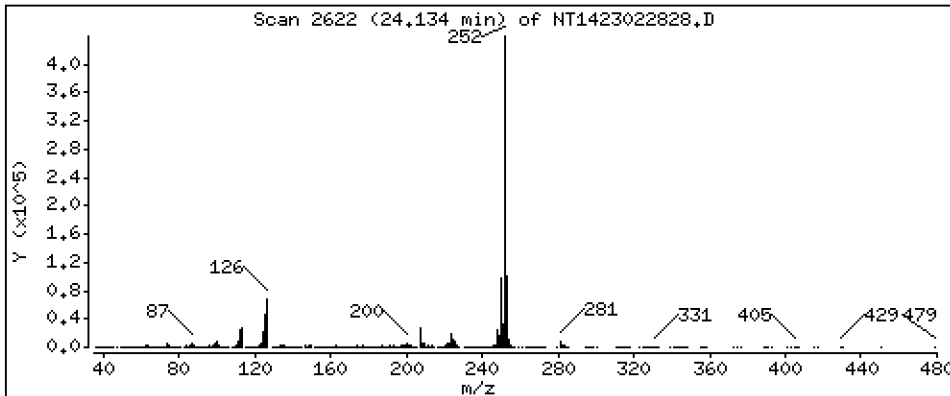
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 10,20 ug/mL





Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

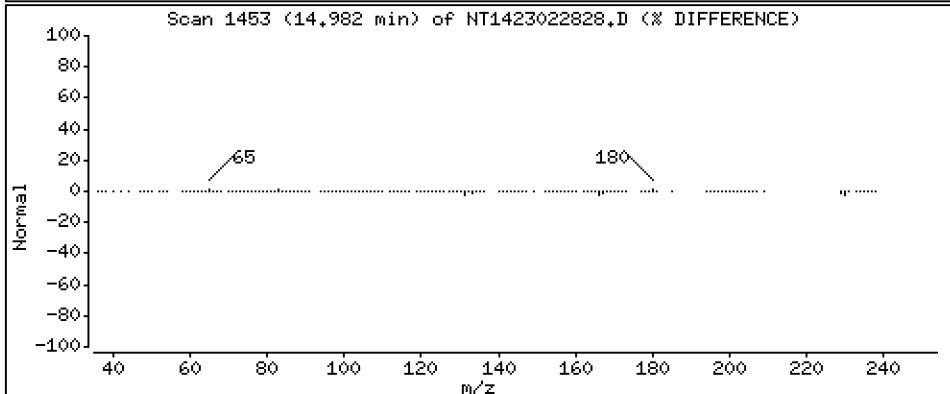
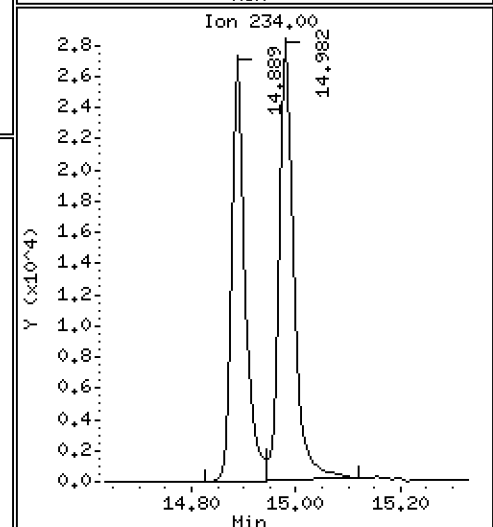
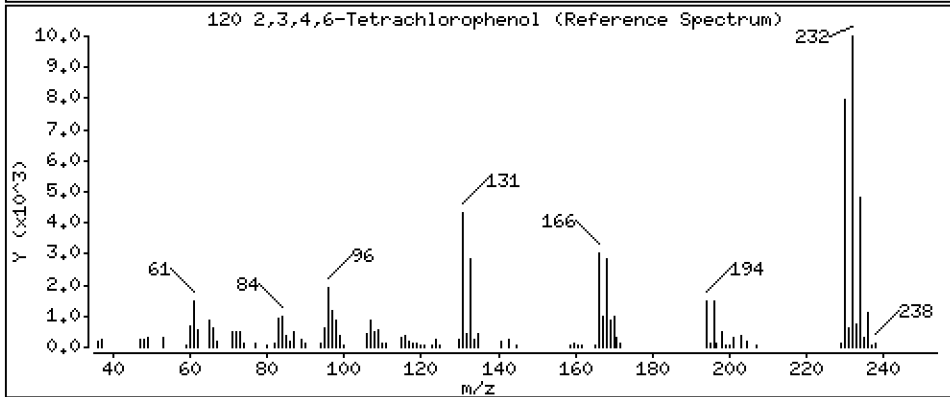
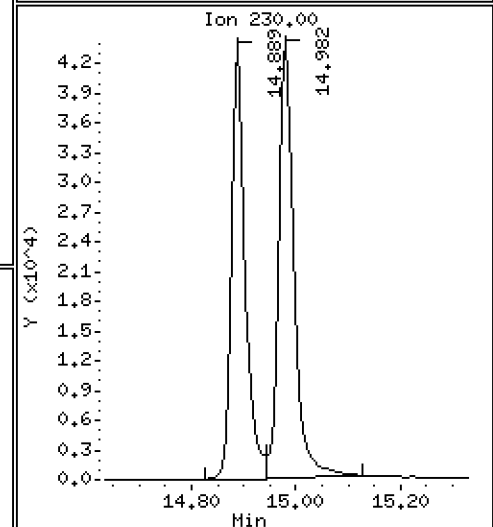
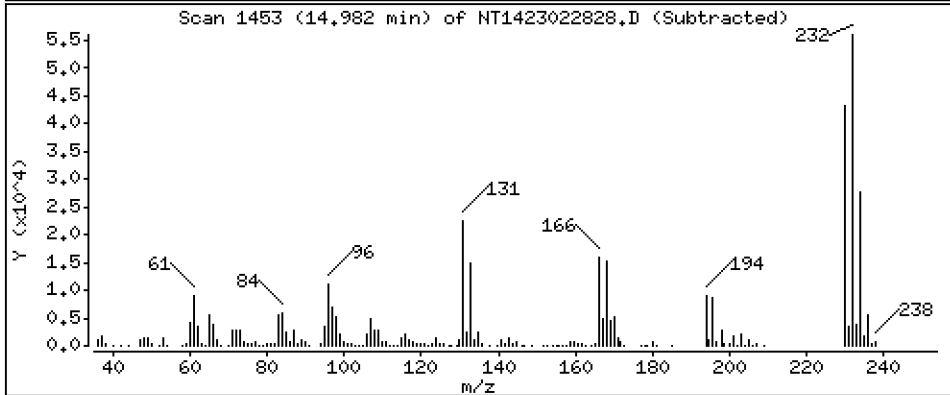
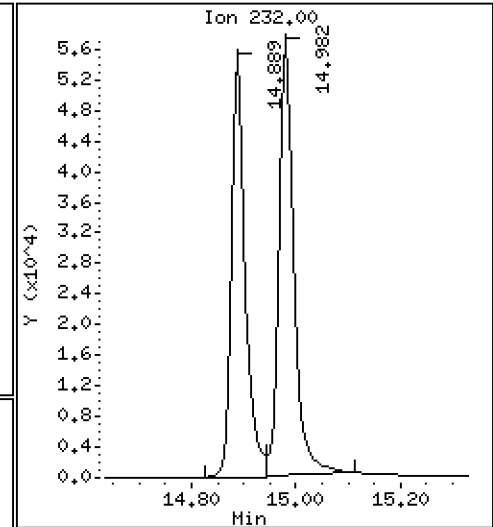
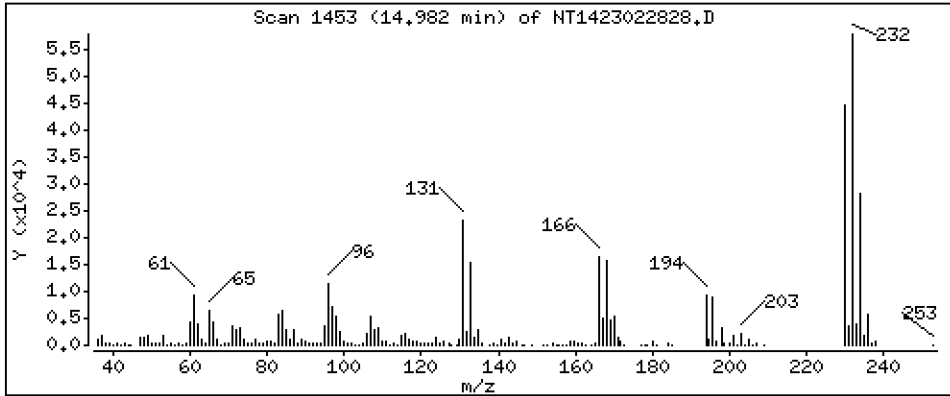
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 4,257 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022828.D  
 Lab Smp Id: BLA0557-BSD1  
 Inj Date : 01-MAR-2023 17:52 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : BLA0557-BSD1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 11-Mar-2023 09:11 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 20  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |         |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|---------|
|                                 |       |     |        |        |         |          | ON-COLUMN      | FINAL   |
|                                 | MASS  |     |        |        |         |          | (ug/mL)        | (ug/mL) |
| \$ 1 2-Fluorophenol             | 112   |     | 6.066  | 6.050  | (0.741) | 197794   | 6.44396        | 6.444   |
| \$ 2 Phenol-d5                  | 99    |     | 7.634  | 7.634  | (0.932) | 288061   | 6.61002        | 6.610   |
| 3 Phenol                        | 94    |     | 7.657  | 7.657  | (0.935) | 249779   | 4.80372        | 4.804   |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.850  | 7.850  | (0.958) | 222074   | 5.99297        | 5.993   |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.773  | 7.781  | (0.949) | 168323   | 4.74642        | 4.746   |
| 6 2-Chlorophenol                | 128   |     | 7.874  | 7.874  | (0.961) | 169516   | 4.42596        | 4.426   |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.121  | 8.129  | (0.991) | 167053   | 3.95779        | 3.958   |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.191  | 8.191  | (1.000) | 113200   | 4.00000        |         |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.222  | 8.222  | (1.004) | 166318   | 3.98692        | 3.987   |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.540  | 8.548  | (1.043) | 100224   | 3.59265        | 3.593   |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.571  | 8.571  | (1.046) | 163153   | 4.07876        | 4.079   |
| 11 Benzyl alcohol               | 108   |     | 8.501  | 8.501  | (1.038) | 95290    | 4.15205        | 4.152   |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.789  | 8.789  | (1.073) | 53374    | 4.94774        | 4.948   |
| 13 2-Methylphenol               | 108   |     | 8.742  | 8.742  | (1.067) | 129700   | 3.94841        | 3.948   |
| 17 Hexachloroethane             | 117   |     | 9.146  | 9.146  | (1.117) | 64433    | 4.11289        | 4.113   |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.045  | 9.053  | (1.104) | 125570   | 5.02062        | 5.021   |
| 15 4-Methylphenol               | 108   |     | 9.022  | 9.014  | (1.101) | 152316   | 4.04731        | 4.047   |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.285  | 9.285  | (0.872) | 177542   | 4.41433        | 4.414   |
| 19 Nitrobenzene                 | 77    |     | 9.316  | 9.316  | (0.875) | 207687   | 5.37368        | 5.374   |
| 20 Isophorone                   | 82    |     | 9.774  | 9.774  | (0.918) | 349975   | 5.90998        | 5.910   |
| 21 2-Nitrophenol                | 139   |     | 9.945  | 9.945  | (0.934) | 93417    | 4.64175        | 4.642   |
| 22 2,4-Dimethylphenol           | 107   |     | 10.038 | 10.038 | (0.943) | 376104   | 10.6744        | 10.67   |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.224 | 10.224 | (0.960) | 208094   | 5.35548        | 5.355   |
| 24 Benzoic acid                 | 105   |     | 10.379 | 10.364 | (0.975) | 561890   | 40.2417        | 40.24   |
| 25 2,4-Dichlorophenol           | 162   |     | 10.402 | 10.402 | (0.977) | 385813   | 11.4107        | 11.41   |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.572 | 10.572 | (0.993) | 154670   | 3.88422        | 3.884   |
| * 27 Naphthalene-d8             | 136   |     | 10.649 | 10.649 | (1.000) | 411152   | 4.00000        |         |
| 28 Naphthalene                  | 128   |     | 10.688 | 10.688 | (1.004) | 469937   | 4.28499        | 4.285   |
| 29 4-Chloroaniline              | 127   |     | 10.850 | 10.850 | (1.019) | 155574   | 3.31658        | 3.317   |
| 30 Hexachlorobutadiene          | 225   |     | 11.059 | 11.066 | (1.038) | 107931   | 4.44193        | 4.442   |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.840 | 11.840 | (1.112) | 582786   | 18.3757        | 18.38   |
| 32 2-Methylnaphthalene          | 142   |     | 12.072 | 12.080 | (1.134) | 342914   | 4.22231        | 4.222   |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.544 | 12.545 | (0.881) | 222804   | 8.69820        | 8.698   |

| Compounds                         | QUANT SIG |                        |        |         |          | CONCENTRATIONS       |                  |  |
|-----------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|--|
|                                   | MASS      | RT                     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |  |
| 34 2,4,6-Trichlorophenol          | 196       | 12.715                 | 12.715 | (0.893) | 431728   | 18.2310              | 18.23            |  |
| 35 2,4,5-Trichlorophenol          | 196       | 12.792                 | 12.792 | (0.899) | 469994   | 18.3561              | 18.36            |  |
| § 36 2-Fluorobiphenyl             | 172       | 12.870                 | 12.877 | (0.904) | 398508   | 4.22350              | 4.223            |  |
| 37 2-Chloronaphthalene            | 162       | 13.055                 | 13.063 | (0.917) | 348739   | 4.61064              | 4.611            |  |
| 38 2-Nitroaniline                 | 65        | 13.349                 | 13.349 | (0.938) | 376390   | 19.0800              | 19.08            |  |
| 39 Dimethylphthalate              | 163       | 13.798                 | 13.798 | (0.970) | 411229   | 5.39303              | 5.393            |  |
| 40 Acenaphthylene                 | 152       | 13.922                 | 13.922 | (0.978) | 495945   | 4.46848              | 4.468            |  |
| 41 2,6-Dinitrotoluene             | 165       | 13.930                 | 13.922 | (0.979) | 317749   | 17.7826              | 17.78            |  |
| * 42 Acenaphthene-d10             | 164       | 14.232                 | 14.232 | (1.000) | 242424   | 4.00000              |                  |  |
| 43 3-Nitroaniline                 | 138       | 14.208                 | 14.201 | (0.998) | 193724   | 10.5779              | 10.58            |  |
| 44 Acenaphthene                   | 153       | 14.301                 | 14.301 | (1.005) | 325314   | 4.57801              | 4.578            |  |
| 45 2,4-Dinitrophenol              | 184       | 14.417                 | 14.417 | (1.013) | 380750   | 31.2568              | 31.26            |  |
| 46 Dibenzofuran                   | 168       | 14.626                 | 14.626 | (1.028) | 510698   | 4.51674              | 4.517            |  |
| 47 4-Nitrophenol                  | 109       | 14.579                 | 14.579 | (1.024) | 159965   | 16.7775              | 16.78            |  |
| 48 2,4-Dinitrotoluene             | 165       | 14.726                 | 14.726 | (1.035) | 443096   | 17.2252              | 17.23            |  |
| 50 Diethylphthalate               | 149       | 15.252                 | 15.252 | (1.072) | 428545   | 6.00997              | 6.010            |  |
| 49 Fluorene                       | 166       | 15.329                 | 15.330 | (1.077) | 440134   | 4.62002              | 4.620            |  |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.345                 | 15.345 | (1.078) | 232903   | 4.59476              | 4.595            |  |
| 52 4-Nitroaniline                 | 138       | 15.476                 | 15.469 | (1.087) | 250944   | 13.8229              | 13.82            |  |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.553                 | 15.553 | (0.902) | 513287   | 33.2053              | 33.21            |  |
| 54 N-Nitrosodiphenylamine         | 169       | 15.600                 | 15.607 | (0.905) | 199260   | 3.47327              | 3.473            |  |
| § 55 2,4,6-Tribromophenol         | 330       | 15.870                 | 15.870 | (1.115) | 97038    | 7.22514              | 7.225            |  |
| 56 4-Bromophenyl-phenylether      | 248       | 16.332                 | 16.340 | (0.947) | 132690   | 5.26091              | 5.261            |  |
| 57 Hexachlorobenzene              | 284       | 16.626                 | 16.626 | (0.965) | 131933   | 4.75771              | 4.758            |  |
| 58 Pentachlorophenol              | 266       | 16.997                 | 17.005 | (0.986) | 278640   | 19.3631              | 19.36            |  |
| * 59 Phenanthrene-d10             | 188       | 17.237                 | 17.237 | (1.000) | 456525   | 4.00000              |                  |  |
| 60 Phenanthrene                   | 178       | 17.284                 | 17.291 | (1.003) | 568806   | 4.68363              | 4.684            |  |
| 61 Anthracene                     | 178       | 17.376                 | 17.384 | (1.008) | 468038   | 4.07659              | 4.077            |  |
| 62 Carbazole                      | 167       | 17.725                 | 17.732 | (1.028) | 466023   | 4.63128              | 4.631            |  |
| 63 Di-n-butylphthalate            | 149       | 18.583                 | 18.583 | (1.078) | 732377   | 5.75624              | 5.756            |  |
| 64 Fluoranthene                   | 202       | 19.705                 | 19.705 | (0.881) | 667866   | 5.12254              | 5.123            |  |
| 65 Pyrene                         | 202       | 20.131                 | 20.139 | (0.900) | 694876   | 5.05510              | 5.055            |  |
| § 66 Terphenyl-d14                | 244       | 20.464                 | 20.471 | (0.915) | 501436   | 4.73783              | 4.738            |  |
| 67 Butylbenzylphthalate           | 149       | 21.431                 | 21.439 | (0.958) | 283562   | 5.96530              | 5.965            |  |
| 68 Benzo(a)anthracene             | 228       | 22.330                 | 22.330 | (0.999) | 569934   | 4.95111              | 4.951            |  |
| * 69 Chrysene-d12                 | 240       | 22.361                 | 22.361 | (1.000) | 343644   | 4.00000              |                  |  |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.322                 | 22.322 | (0.998) | 73704    | 2.24204              | 2.242            |  |
| 71 Chrysene                       | 228       | 22.407                 | 22.407 | (1.002) | 535193   | 4.83702              | 4.837            |  |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.492                 | 22.492 | (0.958) | 403289   | 5.21807              | 5.218            |  |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.468                 | 23.468 | (1.000) | 509245   | 4.00000              |                  |  |
| 73 Di-n-octylphthalate            | 149       | 23.475                 | 23.483 | (1.000) | 690833   | 5.15232              | 5.152            |  |
| 74 Benzo(b)fluoranthene           | 252       | 24.095                 | 24.103 | (0.975) | 648722   | 4.89807              | 4.898            |  |
| 75 Benzo(k)fluoranthene           | 252       | 24.133                 | 24.134 | (0.977) | 768365   | 5.37750              | 5.377            |  |
| 76 Benzo(a)pyrene                 | 252       | 24.614                 | 24.621 | (0.996) | 536874   | 4.72481              | 4.725            |  |
| * 77 Perylene-d12                 | 264       | 24.706                 | 24.707 | (1.000) | 400872   | 4.00000              |                  |  |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.777                 | 26.784 | (1.084) | 437146   | 3.05620              | 3.056            |  |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.792                 | 26.792 | (1.084) | 406257   | 3.34409              | 3.344            |  |
| 80 Benzo(g,h,i)perylene           | 276       | 27.375                 | 27.375 | (1.108) | 279888   | 2.24354              | 2.244            |  |
| 90 N-Nitrosodimethylamine         | 74        | 4.011                  | 3.988  | (0.490) | 238984   | 11.2542              | 11.25            |  |
| 91 Aniline                        | 93        | 7.680                  | 7.681  | (0.938) | 132941   | 2.50839              | 2.508            |  |
| 93 Benzidine                      | 184       | Compound Not Detected. |        |         |          |                      |                  |  |
| 103 Pyridine                      | 79        | Compound Not Detected. |        |         |          |                      |                  |  |
| 105 1-methylnaphthalene           | 142       | 12.297                 | 12.297 | (1.155) | 332536   | 4.44751              | 4.448            |  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.669                 | 15.669 | (1.101) | 418448   | 5.11171              | 5.112            |  |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 24.133 | 24.134 | (0.977) | 1321815  | 10.2024              | 10.20            |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 14.981 | 14.981 | (1.053) | 118613   | 4.25665              | 4.257            |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023  
 Lab File ID: NT1423022828.D Calibration Time: 13:39  
 Lab Smp Id: BLA0557-BSD1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 125853   | 62927      | 251706  | 113200 | -10.05 |
| 27 Naphthalene-d8     | 454961   | 227481     | 909922  | 411152 | -9.63  |
| 42 Acenaphthene-d10   | 273779   | 136890     | 547558  | 242424 | -11.45 |
| 59 Phenanthrene-d10   | 520384   | 260192     | 1040768 | 456525 | -12.27 |
| 69 Chrysene-d12       | 399183   | 199592     | 798366  | 343644 | -13.91 |
| 134 Di-n-octylphthala | 602810   | 301405     | 1205620 | 509245 | -15.52 |
| 77 Perylene-d12       | 478887   | 239444     | 957774  | 400872 | -16.29 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.19     | 7.69     | 8.69  | 8.19   | -0.00 |
| 27 Naphthalene-d8     | 10.65    | 10.15    | 11.15 | 10.65  | -0.00 |
| 42 Acenaphthene-d10   | 14.23    | 13.73    | 14.73 | 14.23  | -0.00 |
| 59 Phenanthrene-d10   | 17.24    | 16.74    | 17.74 | 17.24  | -0.00 |
| 69 Chrysene-d12       | 22.36    | 21.86    | 22.86 | 22.36  | -0.00 |
| 134 Di-n-octylphthala | 23.47    | 22.97    | 23.97 | 23.47  | -0.00 |
| 77 Perylene-d12       | 24.71    | 24.21    | 25.21 | 24.71  | -0.00 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022828.D

Lab ID: BLA0557-BSD1  
nt14.i, ABN.m, 01-MAR-2023 17:52

RT CO-ELUTION COMPOUNDS

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NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

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NONE

RRT check based on Ccal File: NT1423022821.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*



**LCS / LCS DUPLICATE RECOVERY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Analyzed: 03/22/23 20:54

Batch: BLC0442

Laboratory ID: BLC0442-BS1

Preparation: EPA 3546 (Microwave)

Sequence Name: LCS

Initial/Final: 10 g / 1 mL

| COMPOUND                   | SPIKE ADDED (ug/kg wet) | LCS CONCENTRATION (ug/kg wet) | Q | LCS % REC. # | QC LIMITS REC. |
|----------------------------|-------------------------|-------------------------------|---|--------------|----------------|
| Phenol                     | 500                     | 387                           |   | 77.5         | 34 - 120       |
| 4-Methylphenol             | 500                     | 405                           |   | 81.0         | 29 - 120       |
| Naphthalene                | 500                     | 423                           |   | 84.7         | 43 - 120       |
| 2-Methylnaphthalene        | 500                     | 433                           |   | 86.6         | 43 - 120       |
| Acenaphthylene             | 500                     | 415                           |   | 83.0         | 42 - 120       |
| Dimethylphthalate          | 500                     | 487                           |   | 97.4         | 43 - 120       |
| Acenaphthene               | 500                     | 431                           |   | 86.3         | 45 - 120       |
| Dibenzofuran               | 500                     | 437                           |   | 87.4         | 43 - 120       |
| Fluorene                   | 500                     | 447                           |   | 89.4         | 45 - 120       |
| Phenanthrene               | 500                     | 441                           |   | 88.1         | 49 - 120       |
| Anthracene                 | 500                     | 391                           |   | 78.1         | 45 - 120       |
| Fluoranthene               | 500                     | 439                           |   | 87.8         | 53 - 145       |
| Pyrene                     | 500                     | 481                           |   | 96.1         | 52 - 134       |
| Butylbenzylphthalate       | 500                     | 507                           |   | 101          | 45 - 132       |
| Benzo(a)anthracene         | 500                     | 452                           |   | 90.4         | 49 - 120       |
| Chrysene                   | 500                     | 443                           |   | 88.5         | 47 - 120       |
| bis(2-Ethylhexyl)phthalate | 500                     | 464                           |   | 92.7         | 34 - 130       |
| Benzofluoranthenes, Total  | 1000                    | 959                           |   | 95.9         | 30 - 160       |
| Benzo(a)pyrene             | 500                     | 444                           |   | 88.8         | 42 - 120       |
| Indeno(1,2,3-cd)pyrene     | 500                     | 458                           |   | 91.5         | 42 - 163       |
| Dibenzo(a,h)anthracene     | 500                     | 465                           |   | 93.0         | 30 - 133       |
| Benzo(g,h,i)perylene       | 500                     | 446                           |   | 89.2         | 46 - 148       |

\* Indicates values outside of QC limits

| COMPOUND            | SPIKE ADDED (ug/kg wet) | LCSD CONCENTRATION (ug/kg wet) | Q | LCSD % REC. # | % RPD # | QC LIMITS |          |
|---------------------|-------------------------|--------------------------------|---|---------------|---------|-----------|----------|
|                     |                         |                                |   |               |         | RPD       | REC.     |
| Phenol              | 500                     | 384                            |   | 76.8          | 0.804   | 30        | 34 - 120 |
| 4-Methylphenol      | 500                     | 403                            |   | 80.7          | 0.364   | 30        | 29 - 120 |
| Naphthalene         | 500                     | 432                            |   | 86.4          | 2.07    | 30        | 43 - 120 |
| 2-Methylnaphthalene | 500                     | 431                            |   | 86.2          | 0.373   | 30        | 43 - 120 |
| Acenaphthylene      | 500                     | 424                            |   | 84.8          | 2.17    | 30        | 42 - 120 |
| Dimethylphthalate   | 500                     | 502                            |   | 100           | 3.05    | 30        | 43 - 120 |
| Acenaphthene        | 500                     | 439                            |   | 87.8          | 1.78    | 30        | 45 - 120 |

\* Indicates values outside of QC limits



**LCS / LCS DUPLICATE RECOVERY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Analyzed: 03/22/23 21:32

Batch: BLC0442

Laboratory ID: BLC0442-BSD1

Preparation: EPA 3546 (Microwave)

Sequence Name: LCS Dup

Initial/Final: 10 g / 1 mL

| COMPOUND                    | SPIKE ADDED (ug/kg wet) | LCSD CONCENTRATION (ug/kg wet) | Q | LCSD % REC. # | % RPD # | QC LIMITS |          |
|-----------------------------|-------------------------|--------------------------------|---|---------------|---------|-----------|----------|
|                             |                         |                                |   |               |         | RPD       | REC.     |
| Dibenzofuran                | 500                     | 449                            |   | 89.7          | 2.67    | 30        | 43 - 120 |
| Fluorene                    | 500                     | 458                            |   | 91.5          | 2.41    | 30        | 45 - 120 |
| Phenanthrene                | 500                     | 454                            |   | 90.7          | 2.88    | 30        | 49 - 120 |
| Anthracene                  | 500                     | 411                            |   | 82.1          | 5.00    | 30        | 45 - 120 |
| Fluoranthene                | 500                     | 427                            |   | 85.4          | 2.78    | 30        | 53 - 145 |
| Pyrene                      | 500                     | 418                            |   | 83.5          | 14.0    | 30        | 52 - 134 |
| Butylbenzylphthalate        | 500                     | 503                            |   | 101           | 0.724   | 30        | 45 - 132 |
| Benzo(a)anthracene          | 500                     | 453                            |   | 90.5          | 0.190   | 30        | 49 - 120 |
| Chrysene                    | 500                     | 438                            |   | 87.5          | 1.16    | 30        | 47 - 120 |
| bis(2-Ethylhexyl)phthalate  | 500                     | 472                            |   | 94.5          | 1.87    | 30        | 34 - 130 |
| Benzo(a)fluoranthene, Total | 1000                    | 964                            |   | 96.4          | 0.523   | 30        | 30 - 160 |
| Benzo(a)pyrene              | 500                     | 455                            |   | 91.0          | 2.51    | 30        | 42 - 120 |
| Indeno(1,2,3-cd)pyrene      | 500                     | 461                            |   | 92.2          | 0.694   | 30        | 42 - 163 |
| Dibenzo(a,h)anthracene      | 500                     | 467                            |   | 93.5          | 0.507   | 30        | 30 - 133 |
| Benzo(g,h,i)perylene        | 500                     | 447                            |   | 89.5          | 0.292   | 30        | 46 - 148 |

\* Indicates values outside of QC limits



Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222307.D

Date: 22-MAR-2023 20:54

Client ID:

Sample Info: BLC0442-BS1

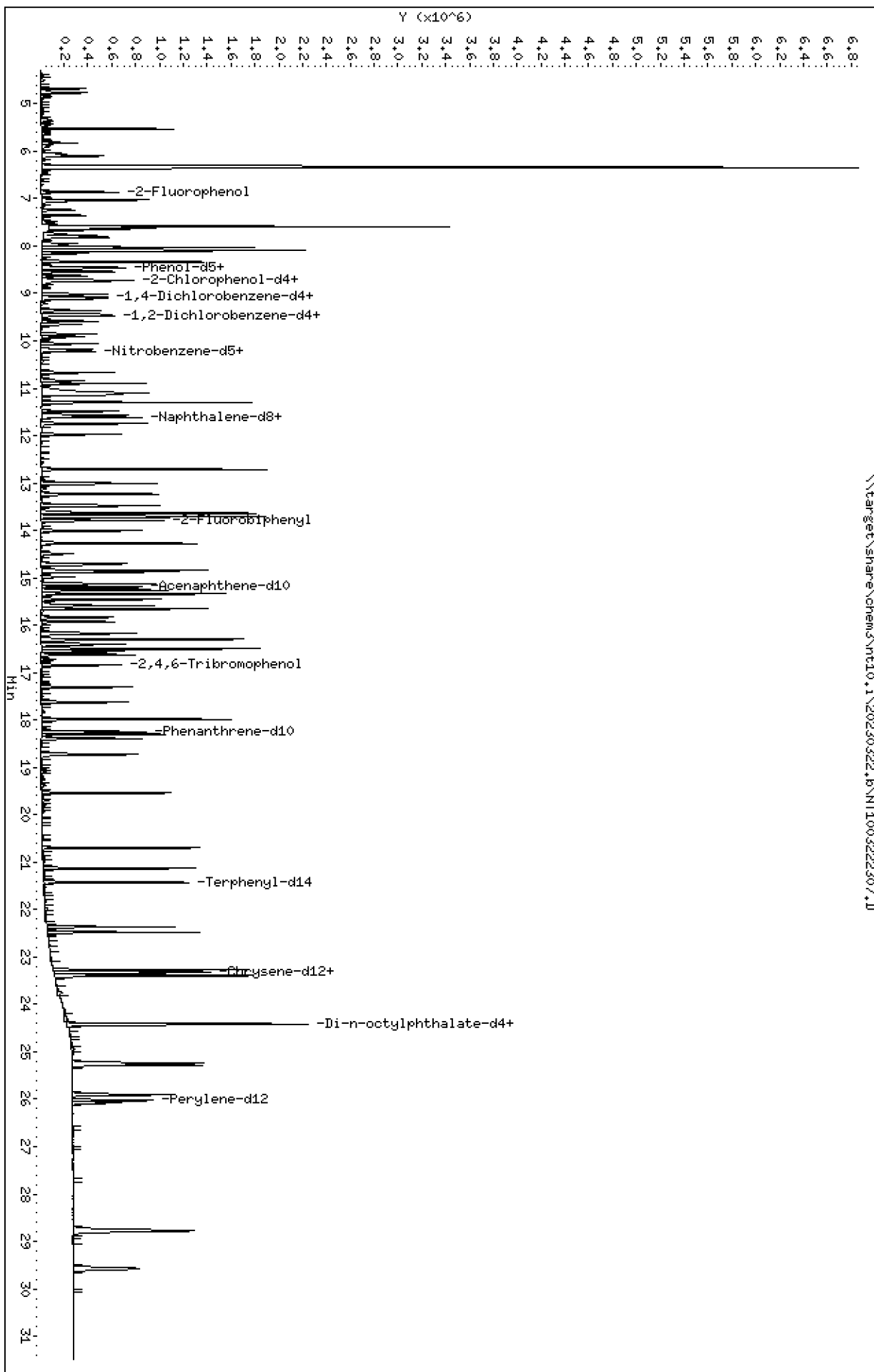
Page 1

Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

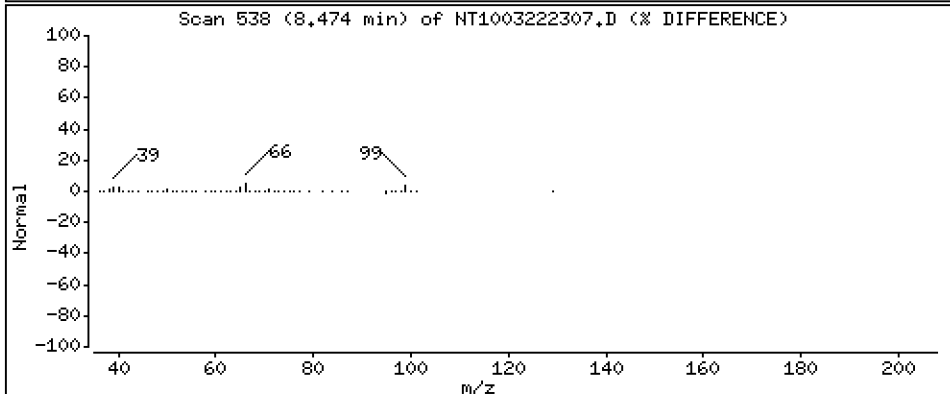
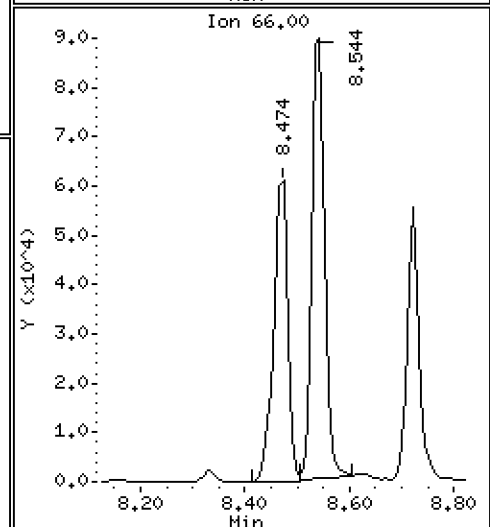
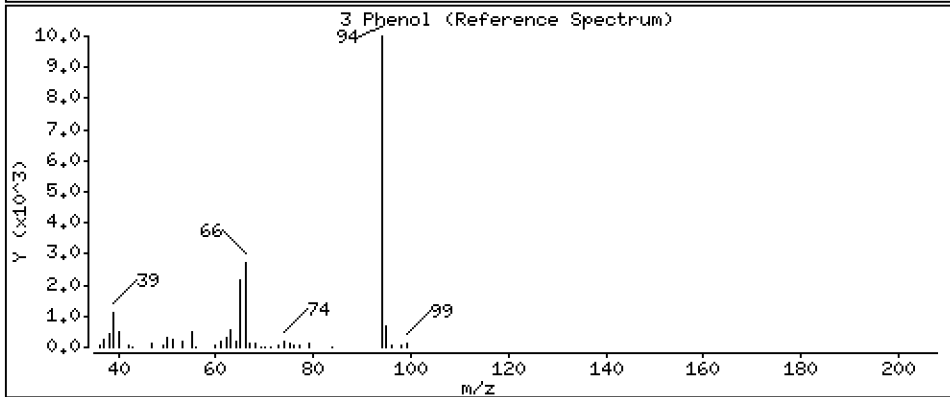
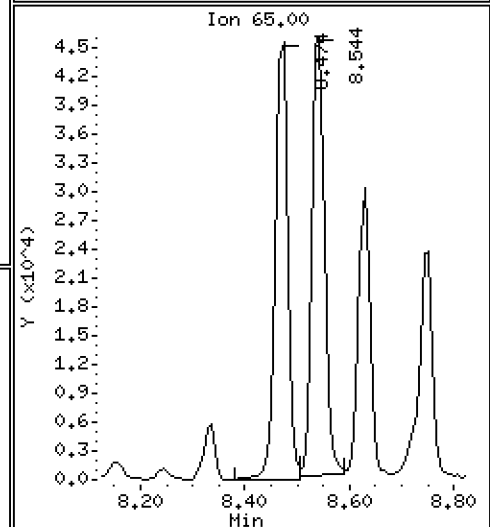
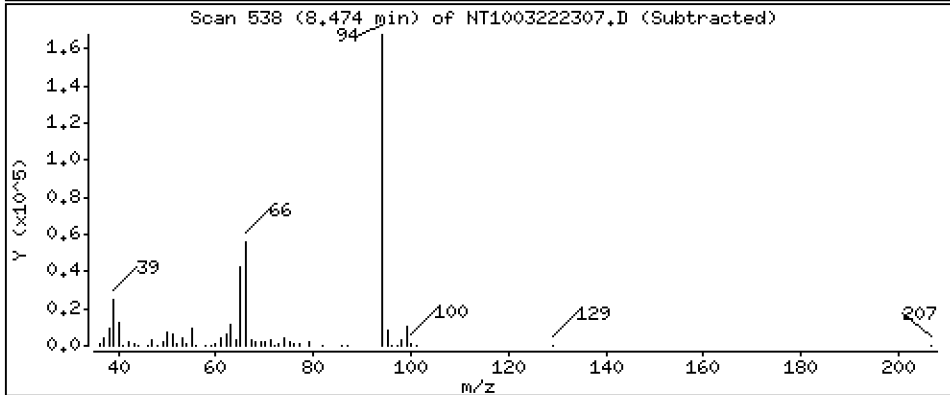
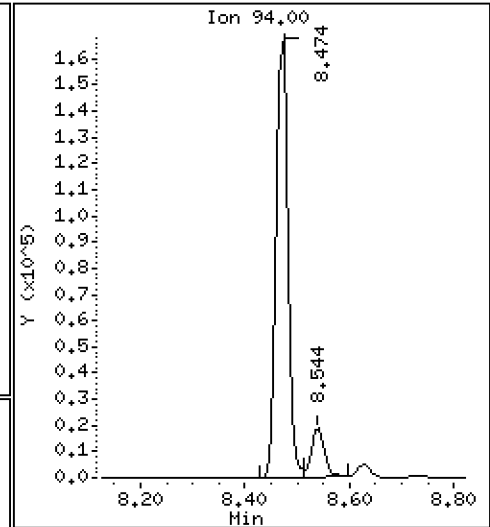
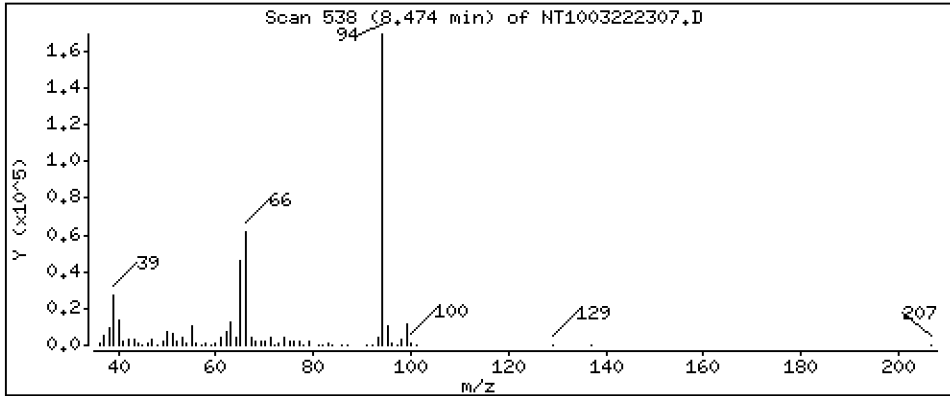
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 3,873 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

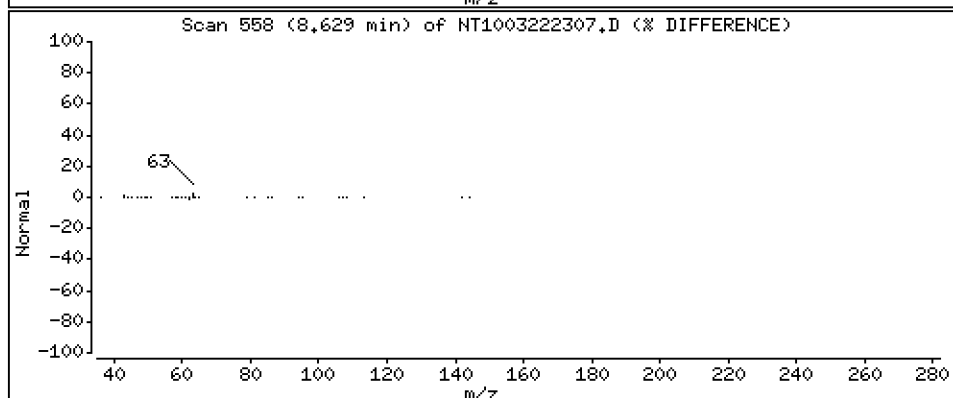
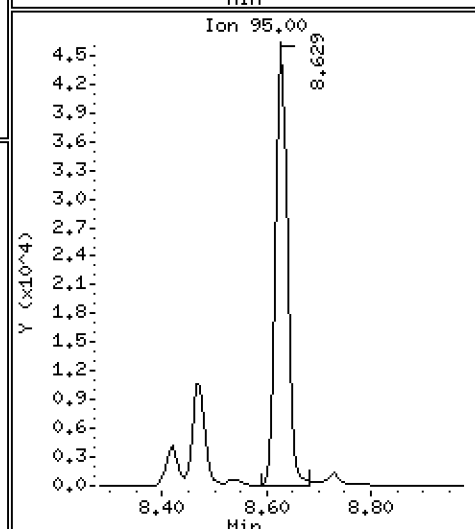
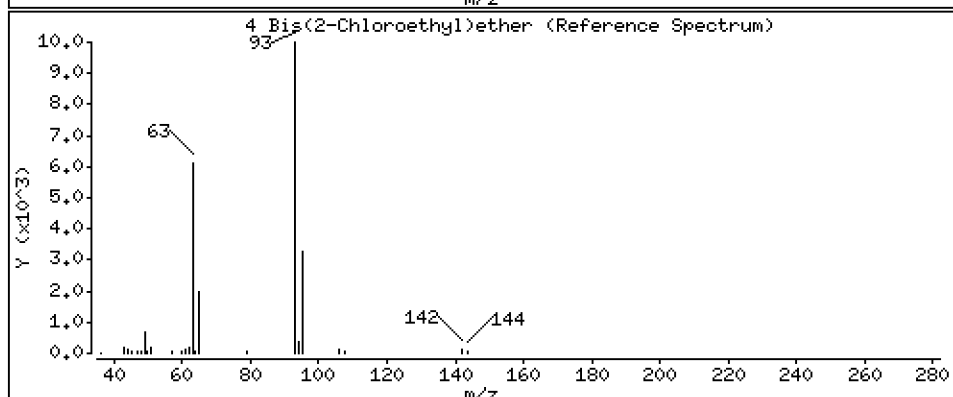
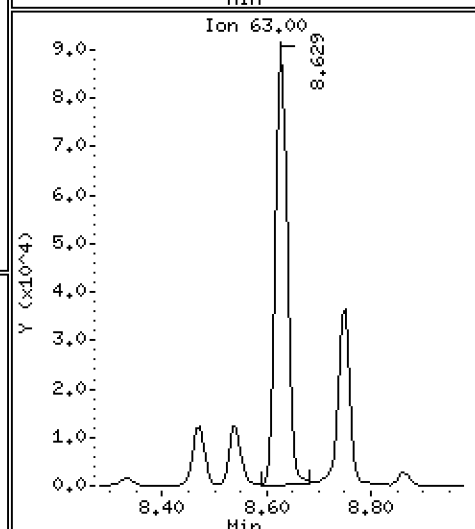
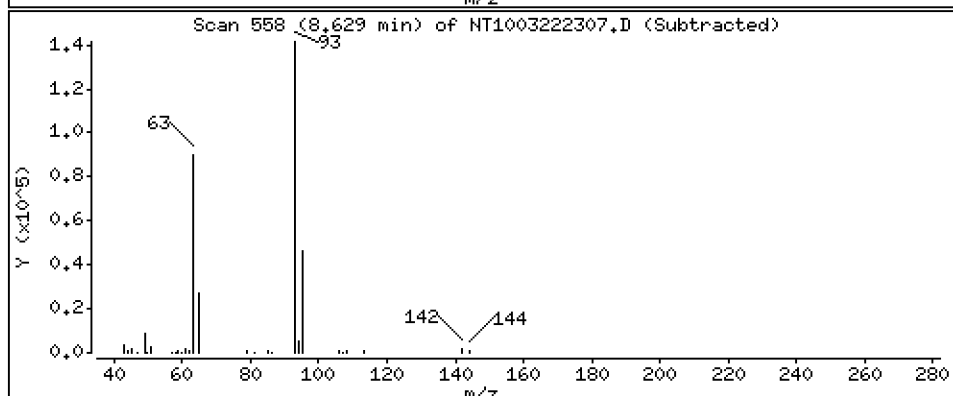
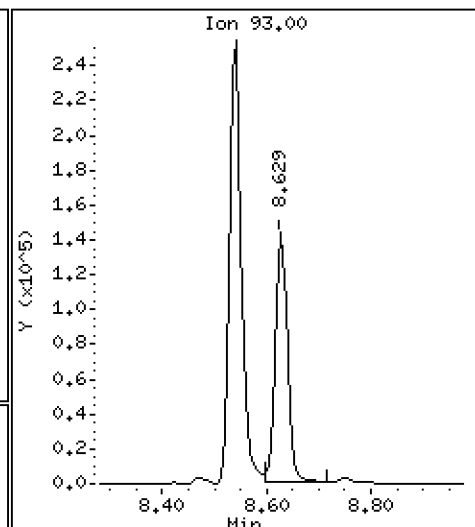
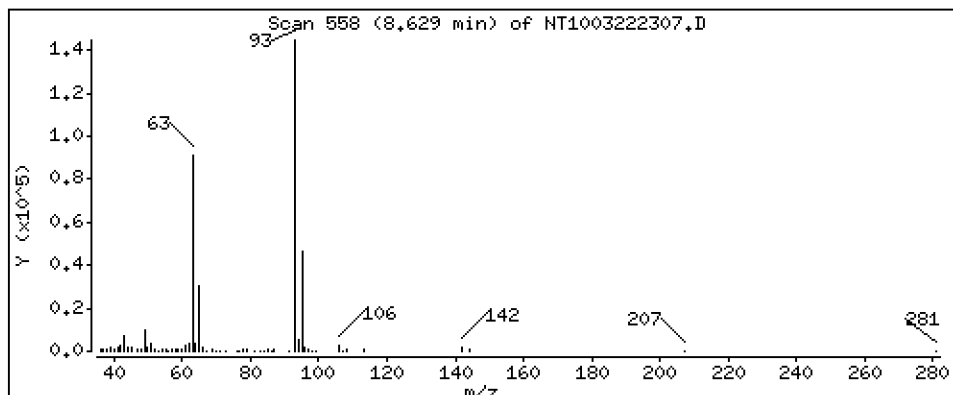
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,548 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

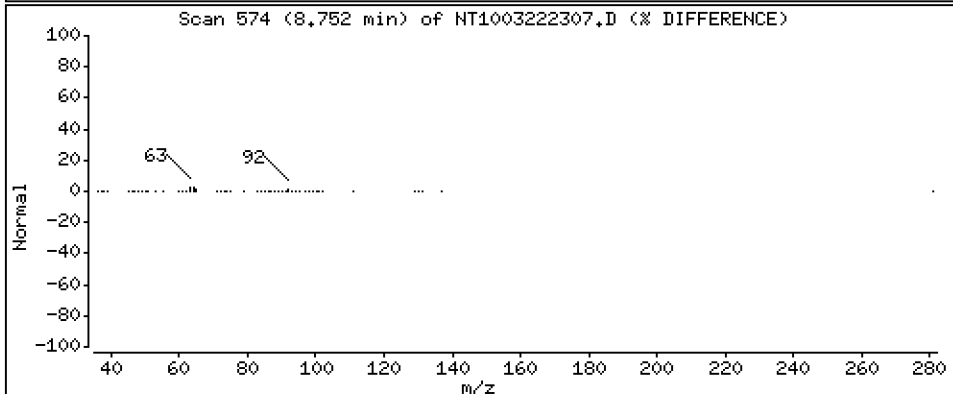
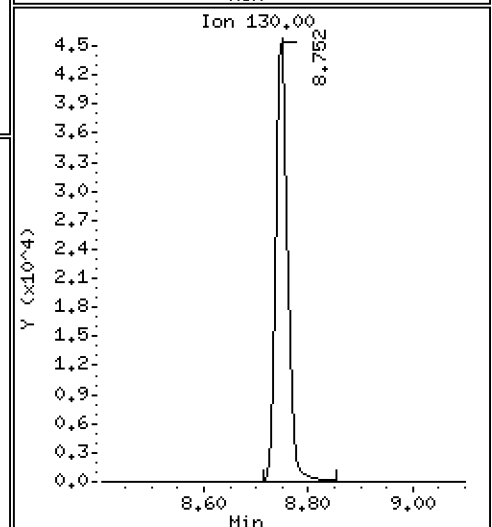
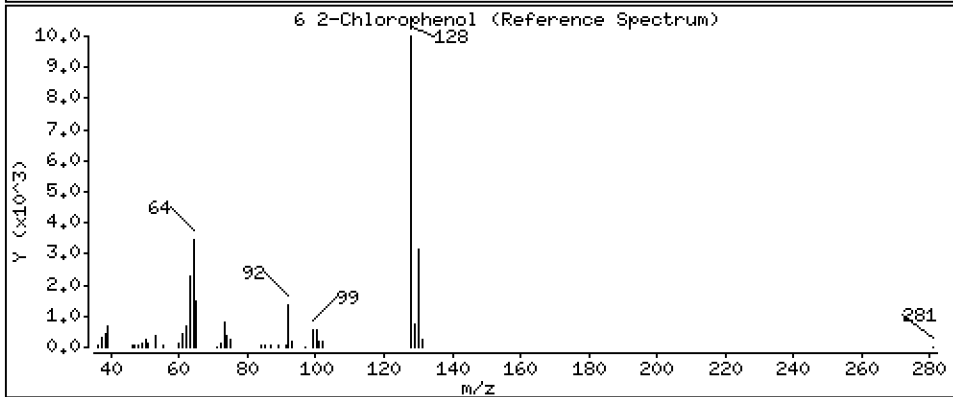
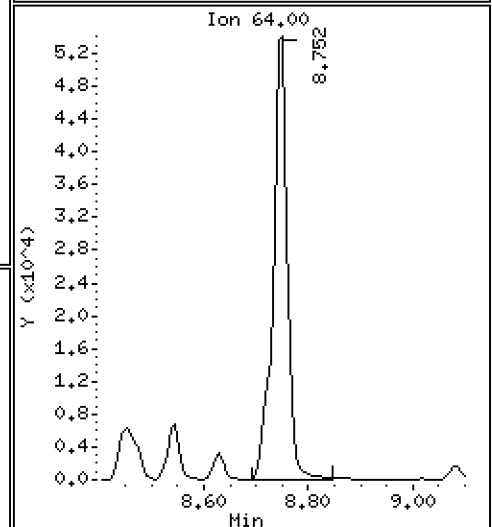
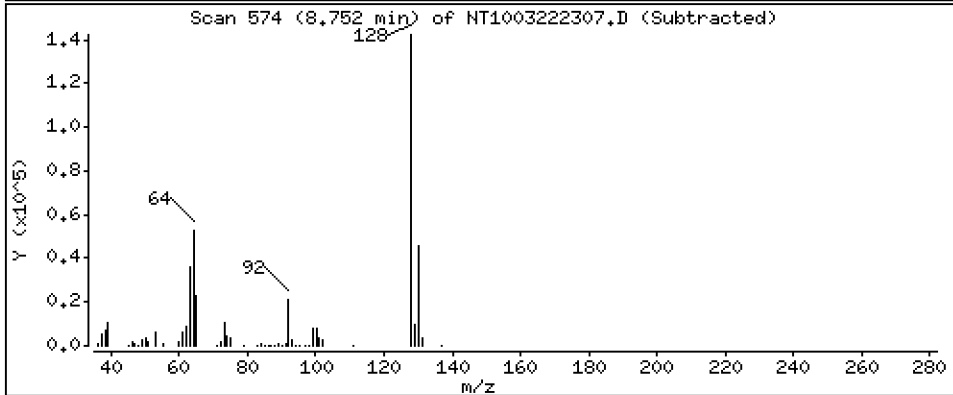
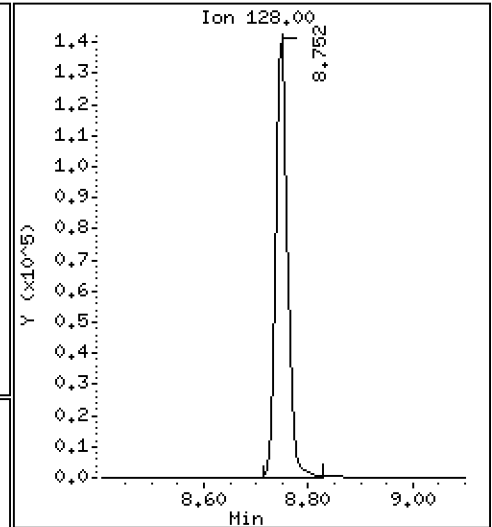
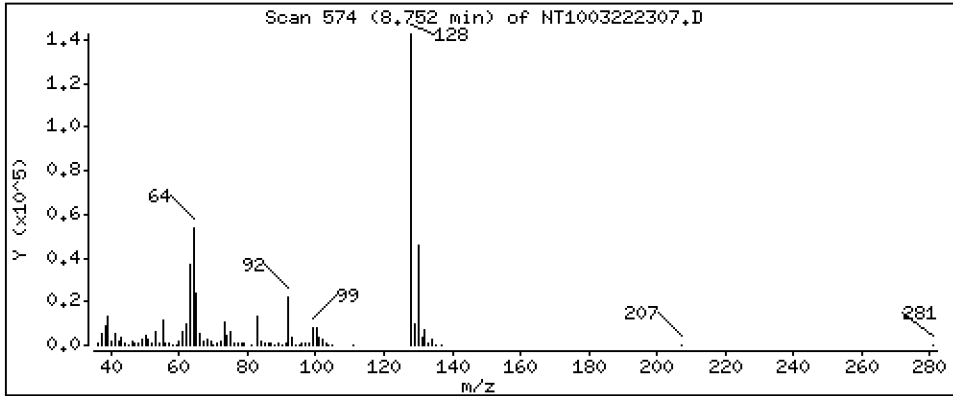
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,072 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

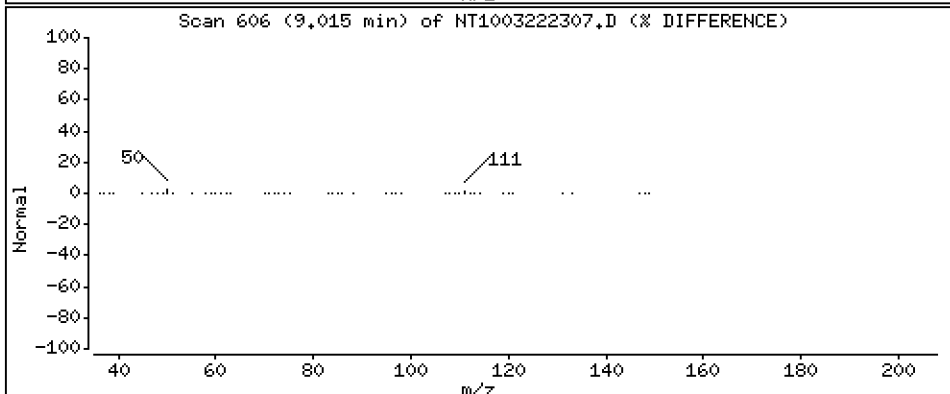
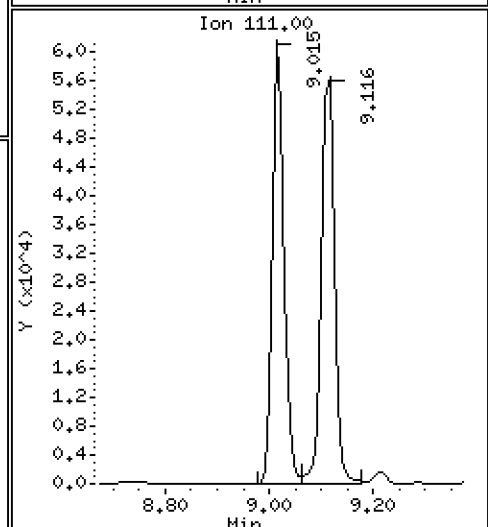
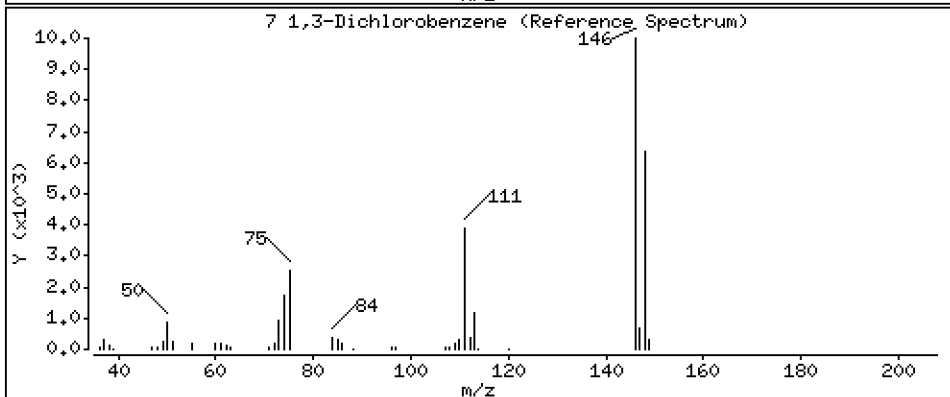
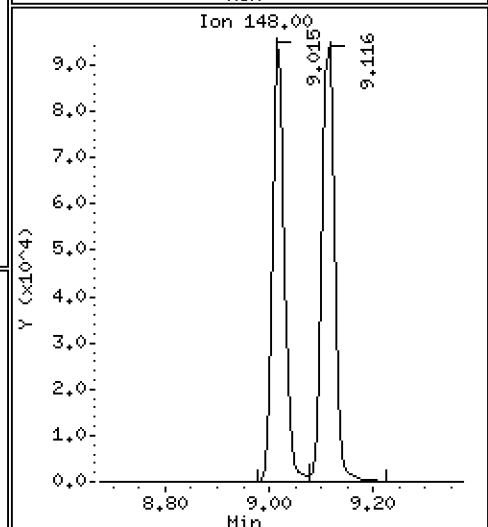
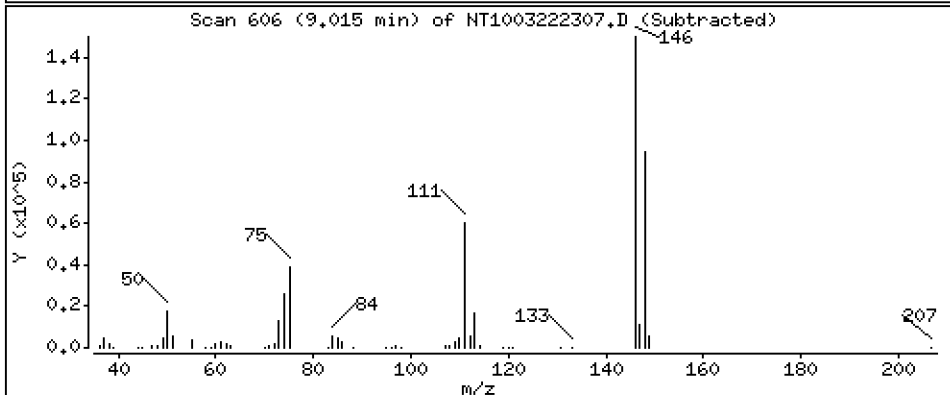
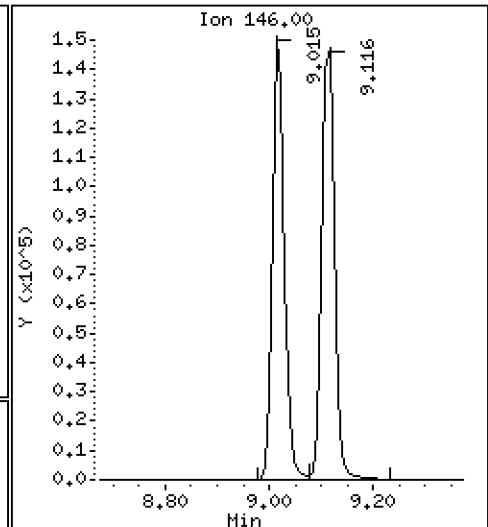
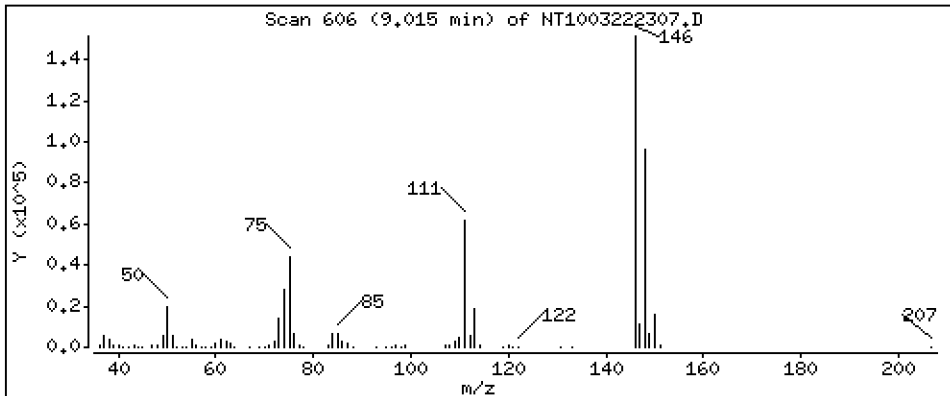
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 4,127 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

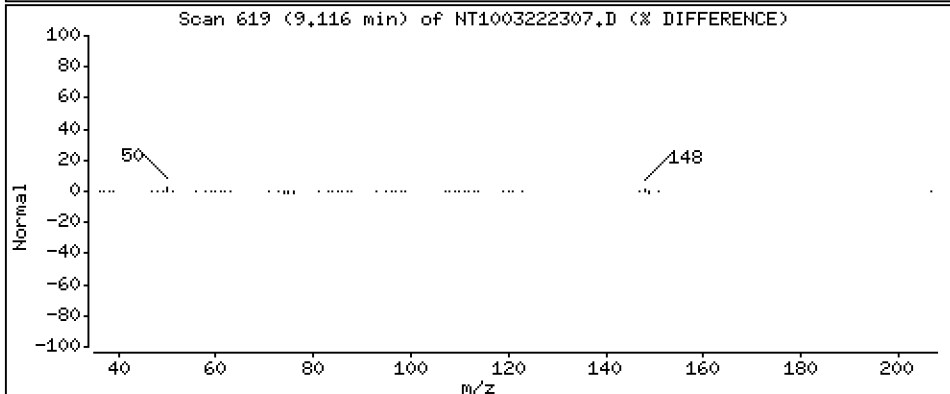
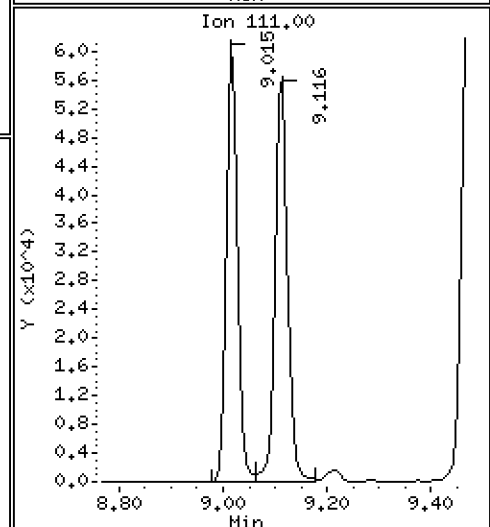
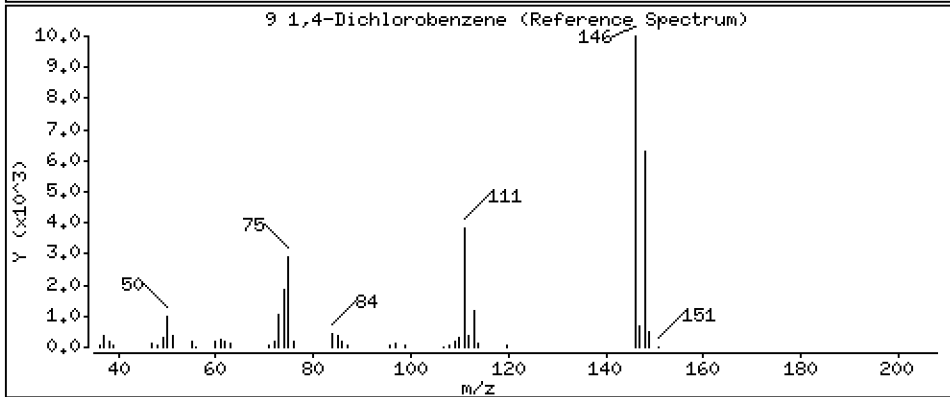
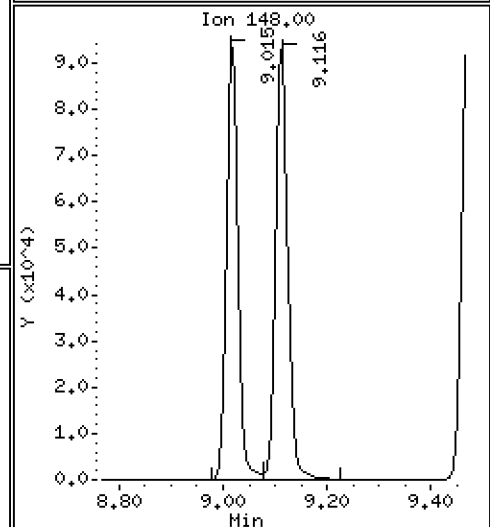
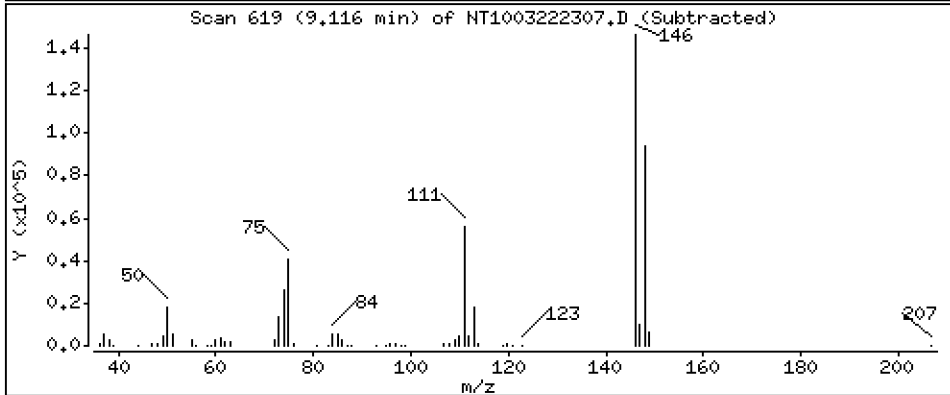
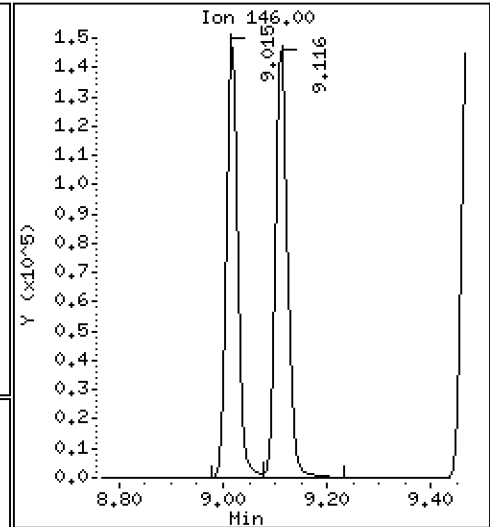
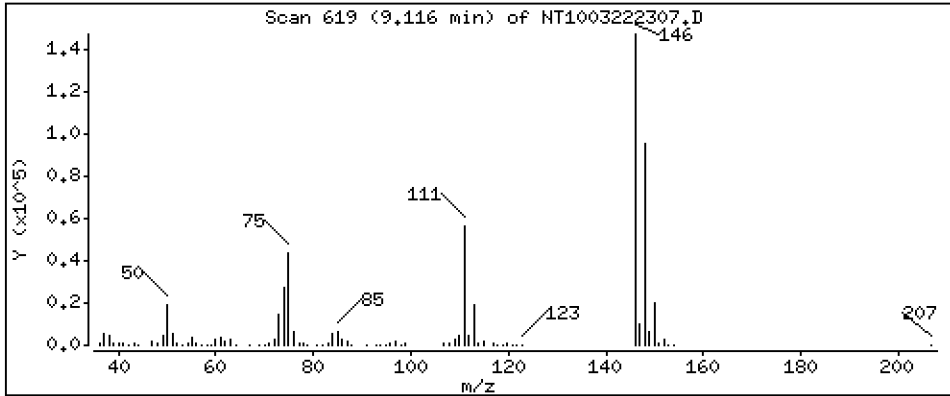
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,280 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

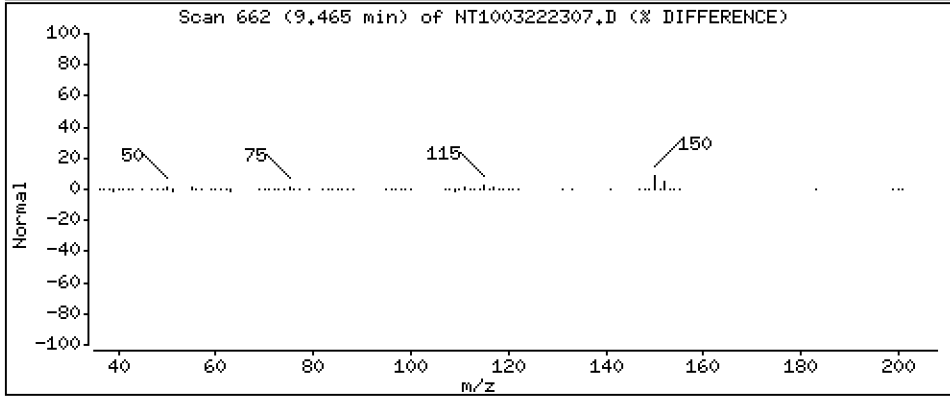
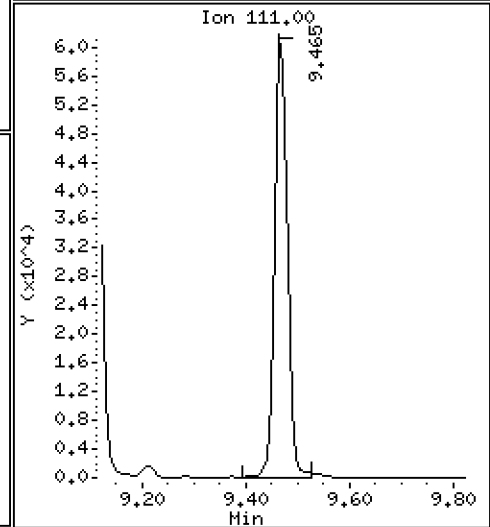
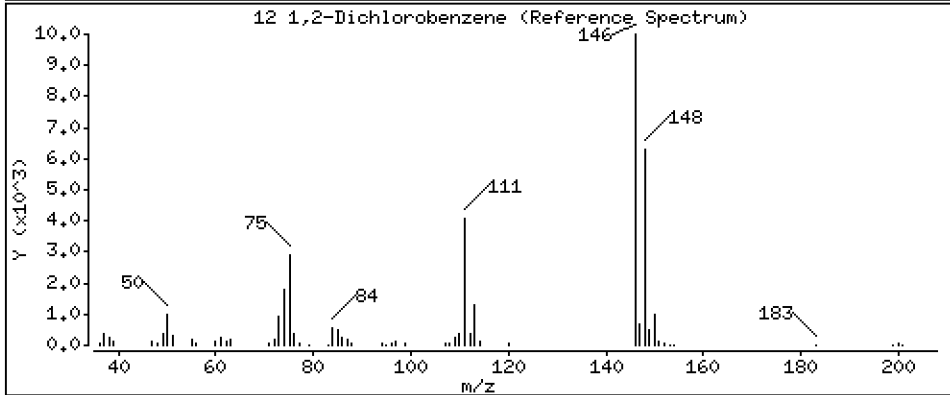
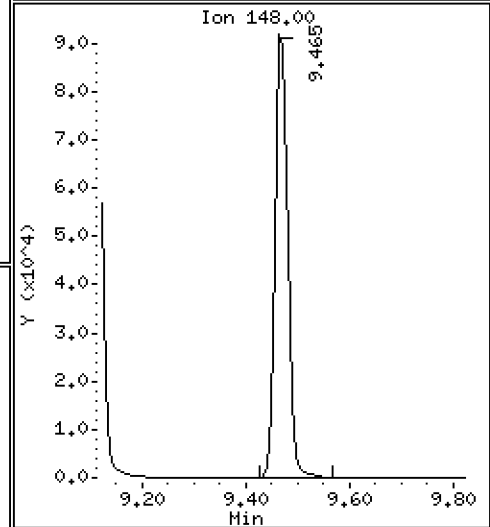
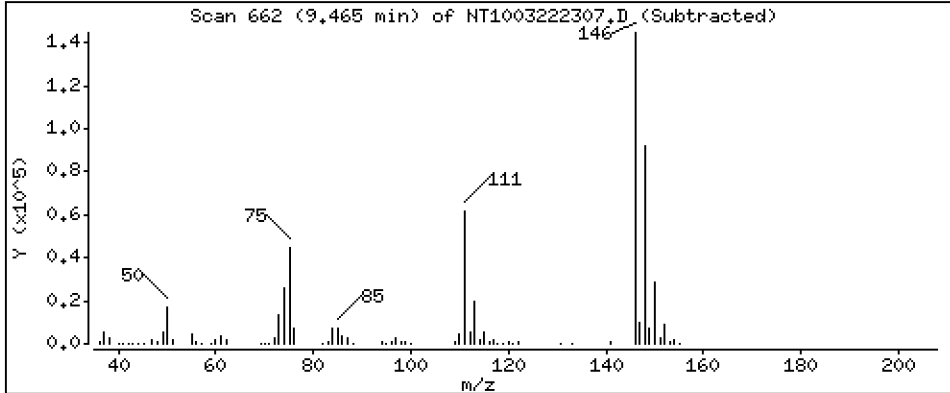
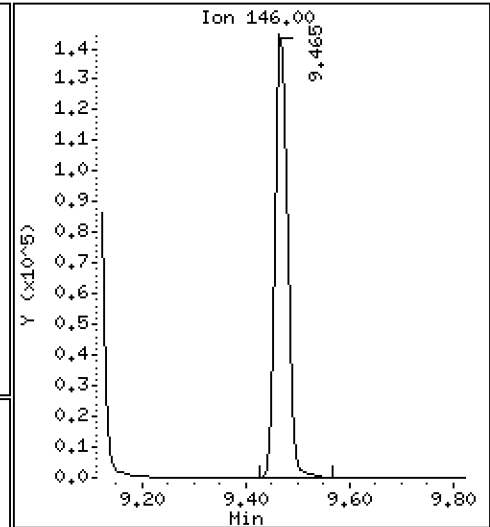
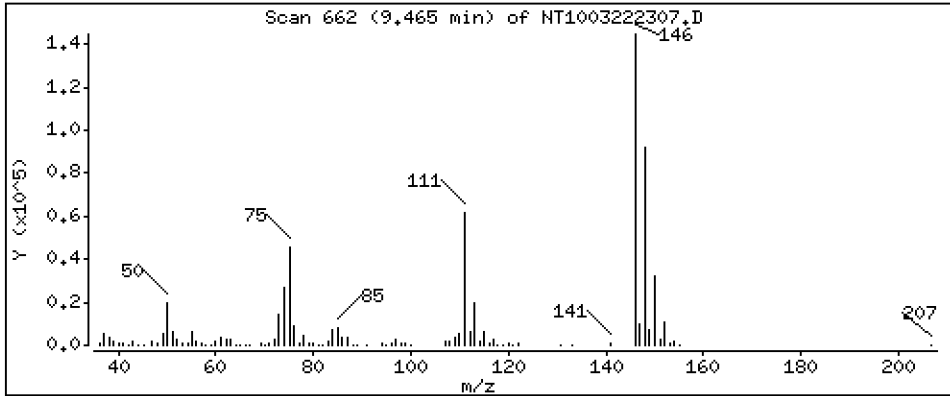
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,249 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

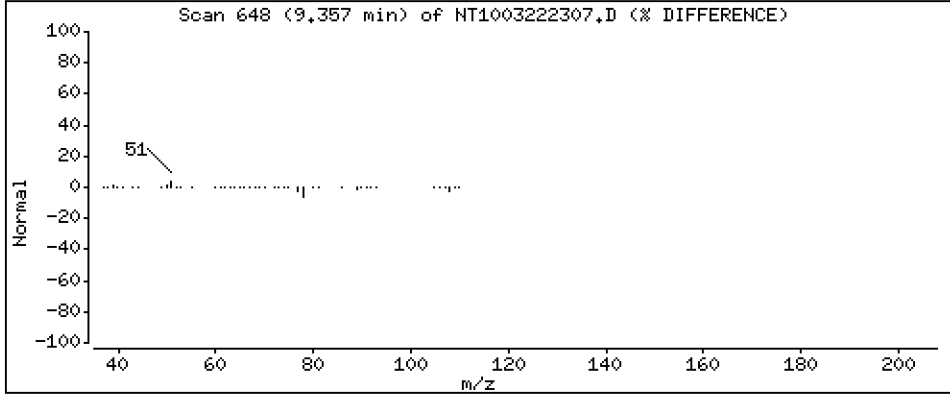
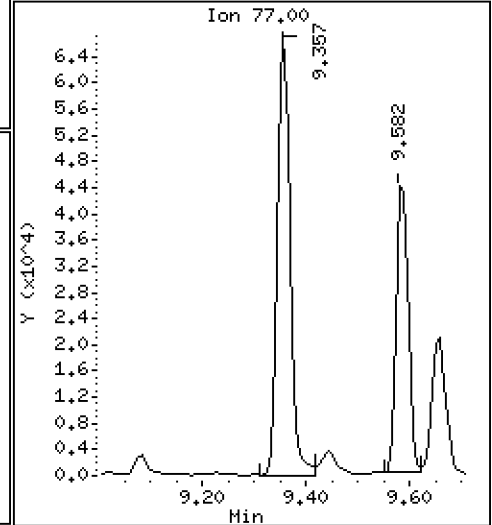
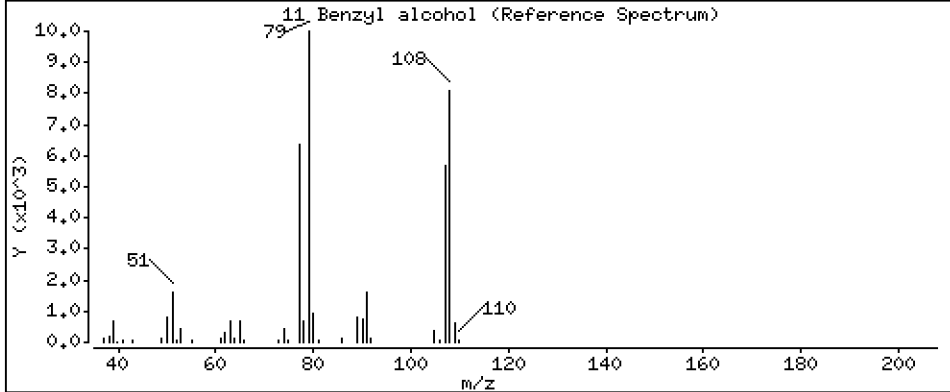
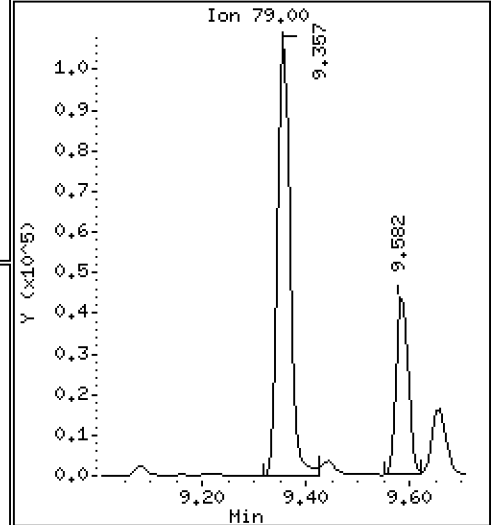
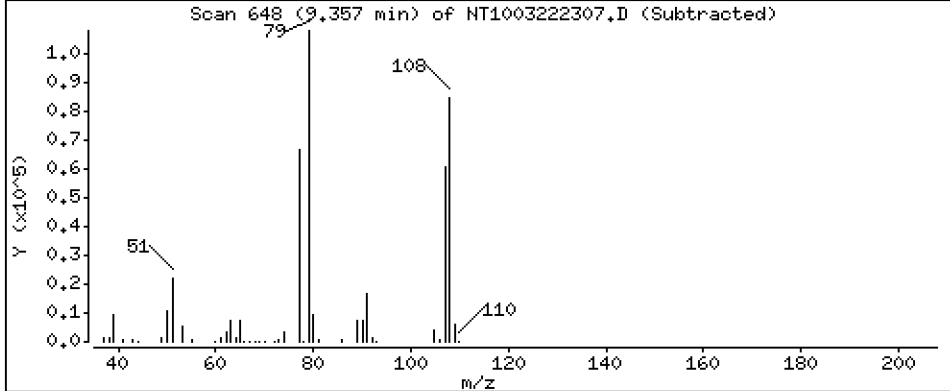
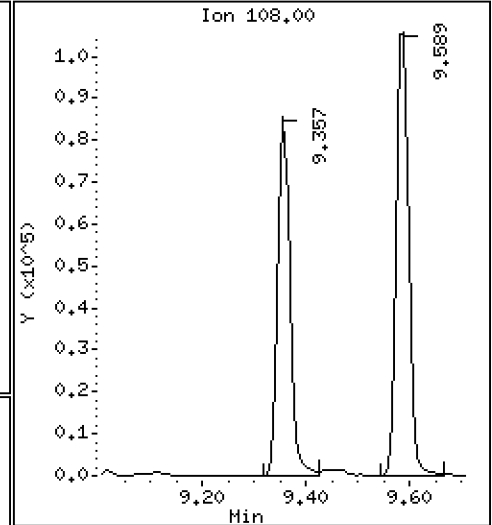
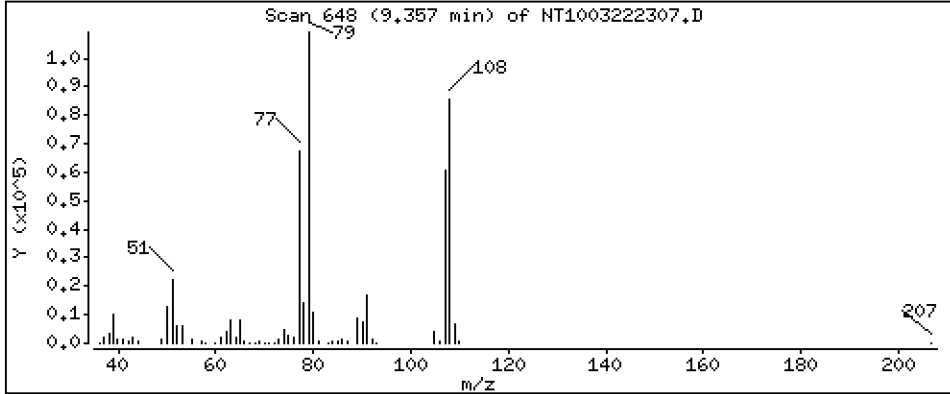
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 4,429 ug/mL





Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

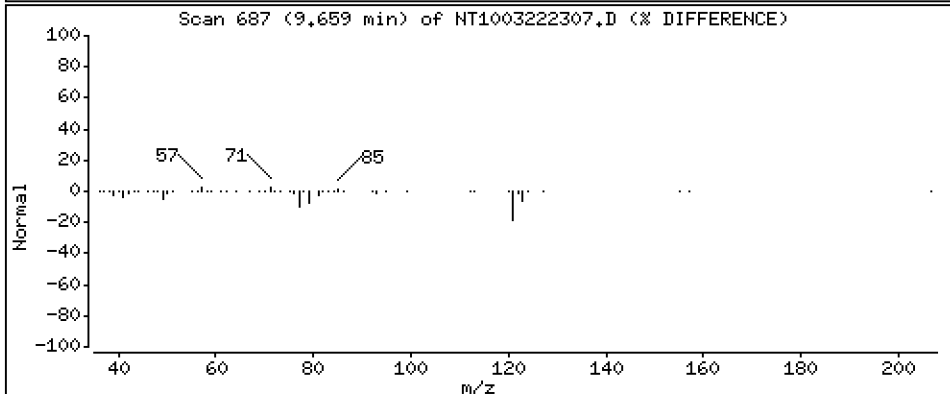
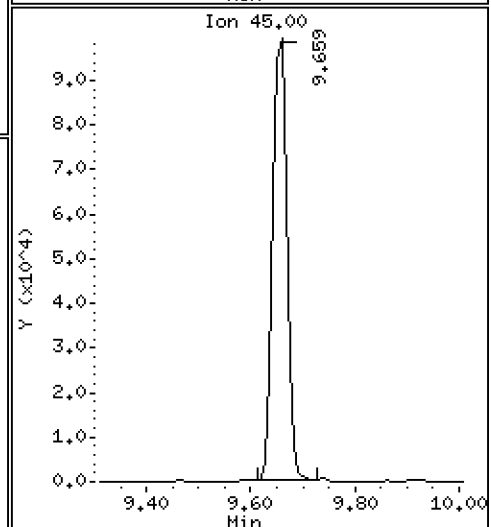
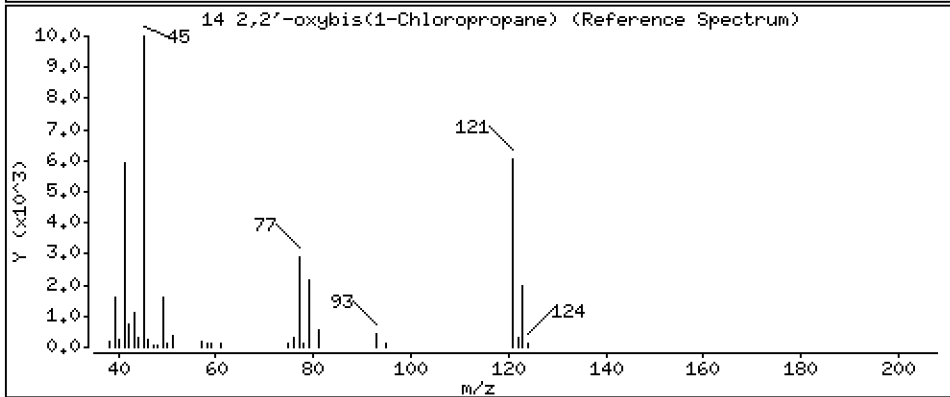
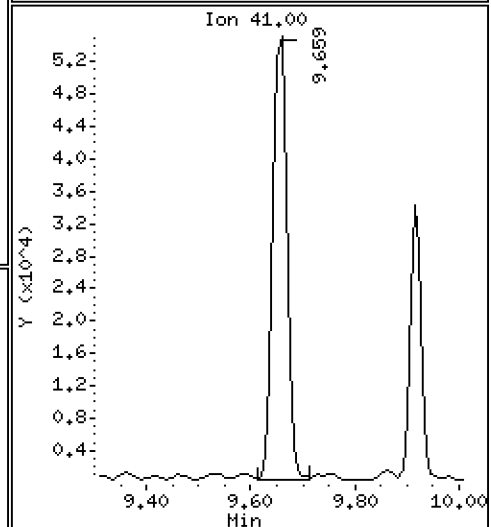
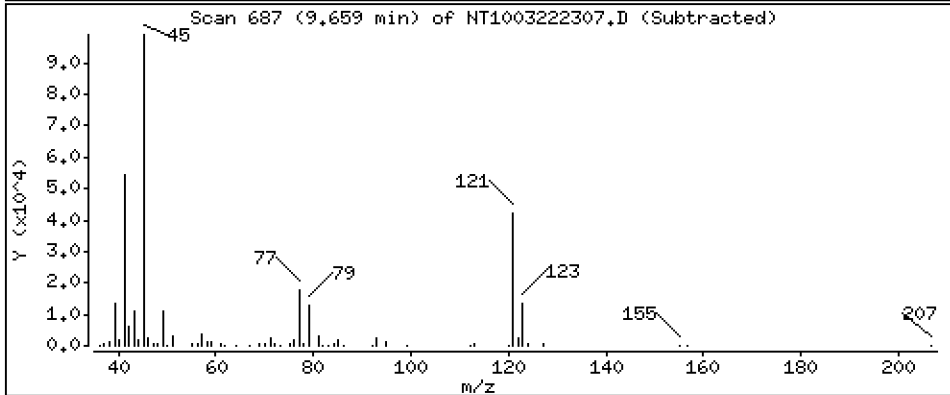
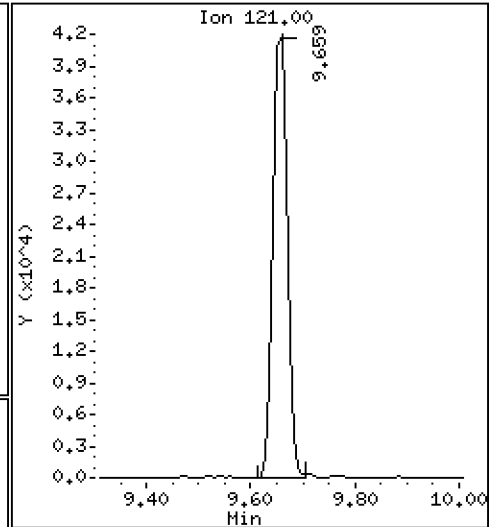
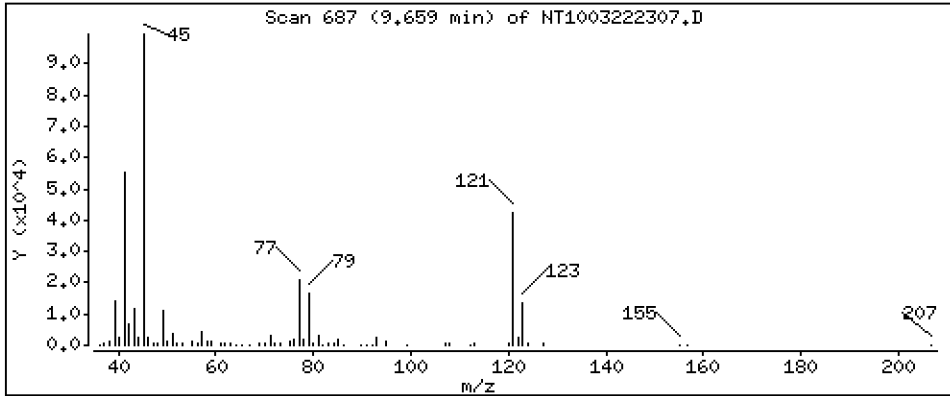
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 4,805 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

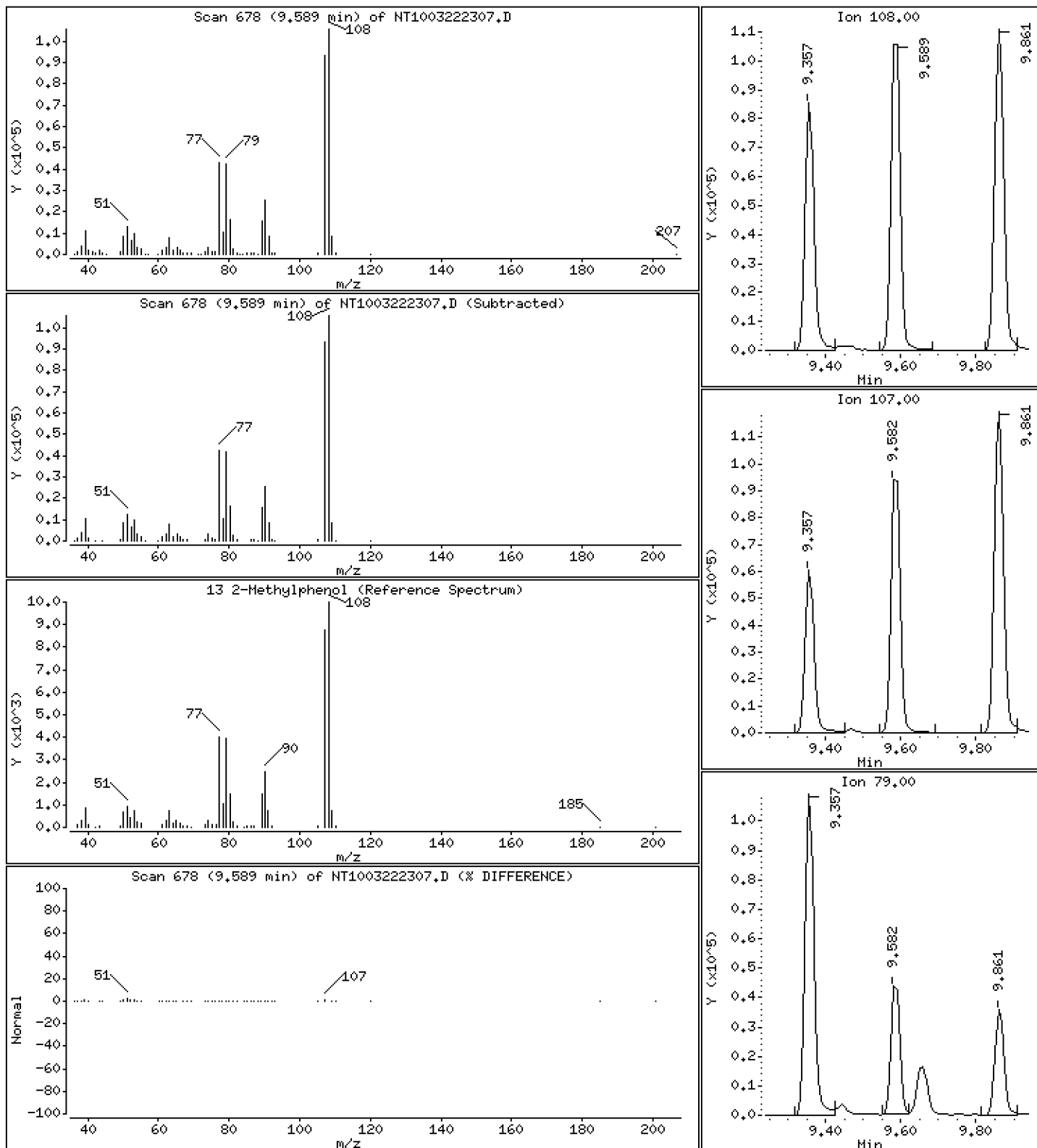
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 3.635 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

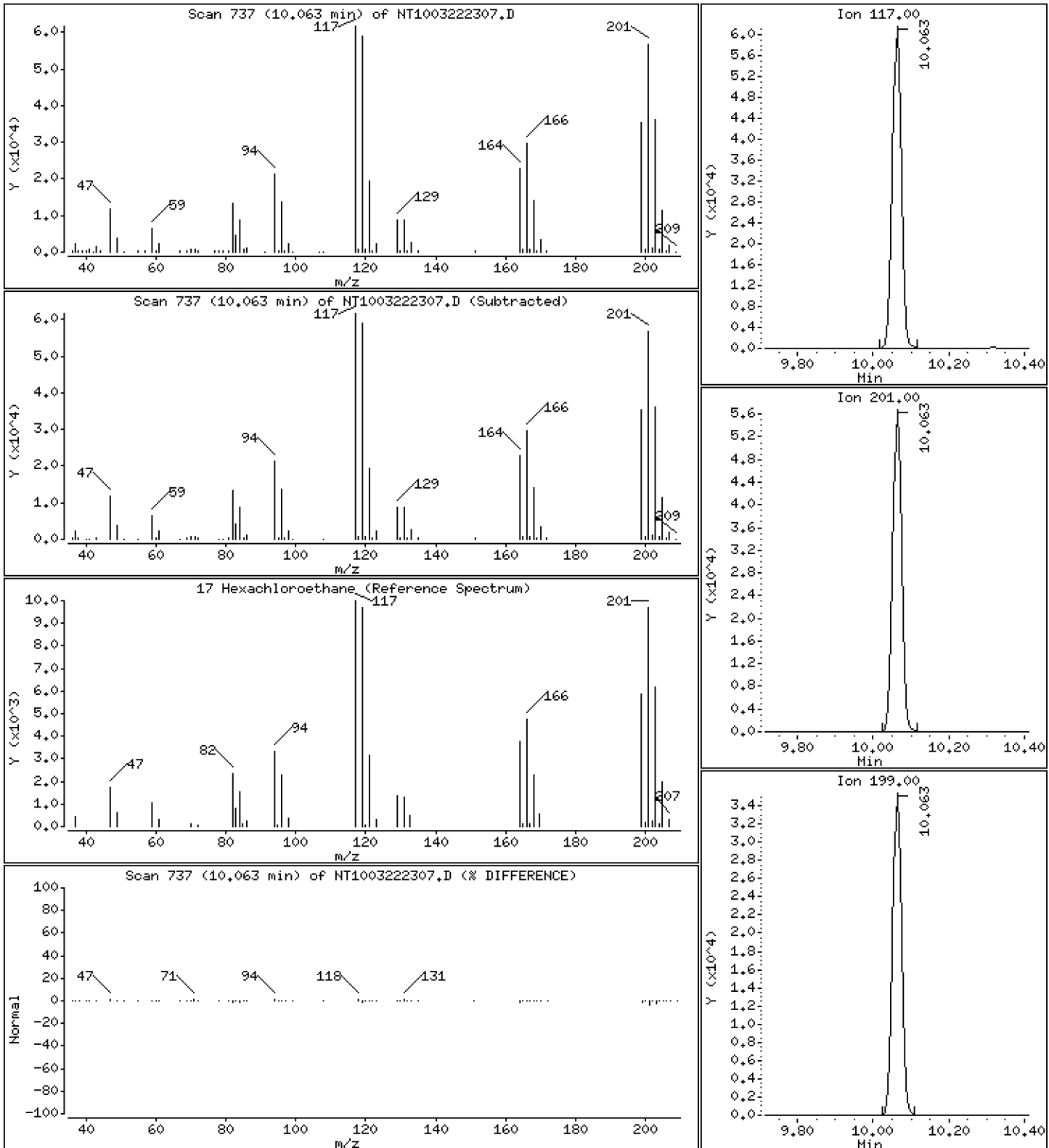
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 4.202 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

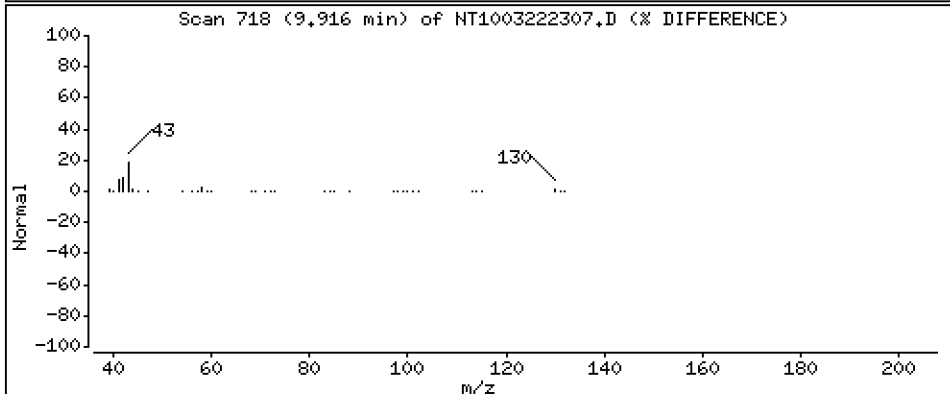
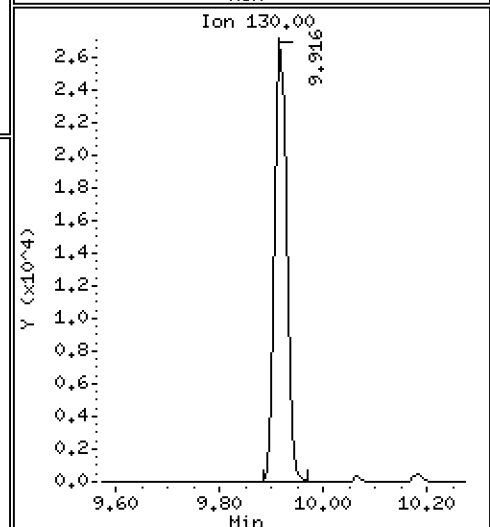
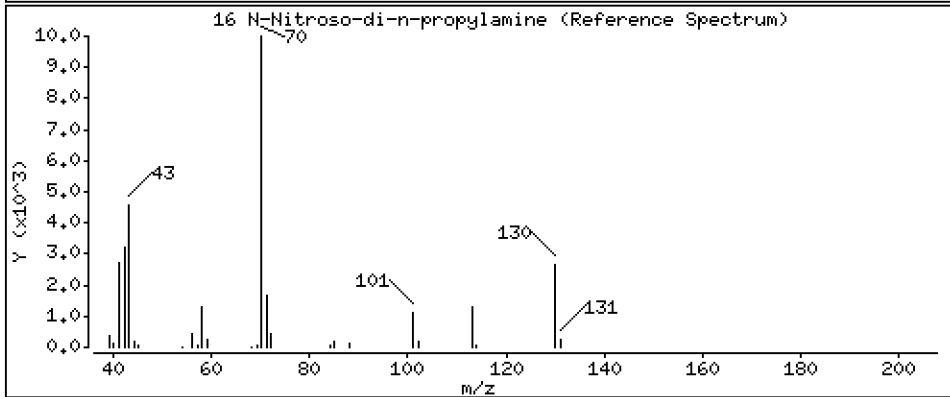
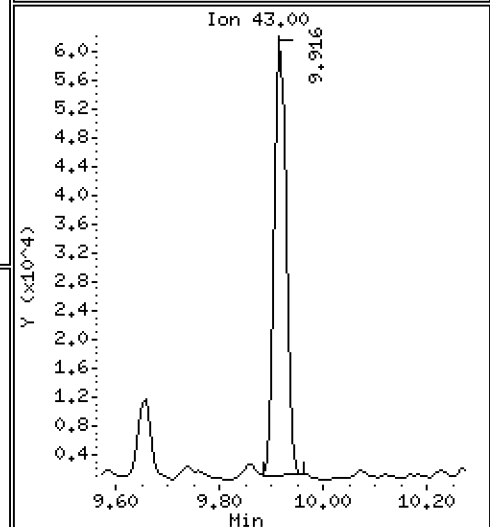
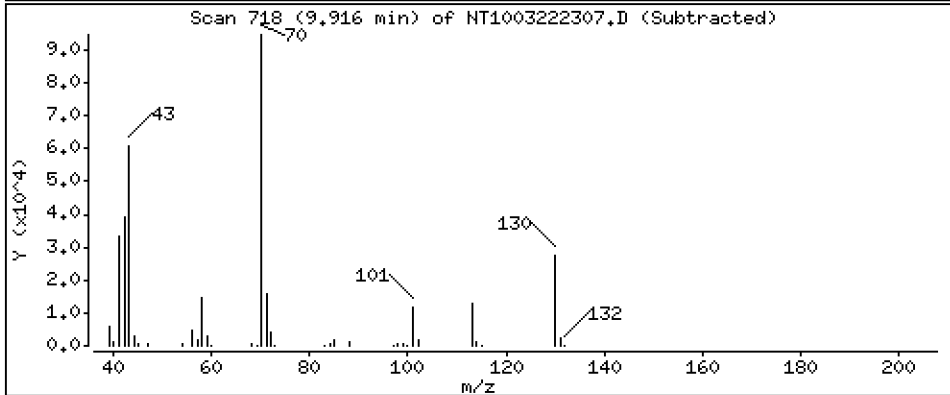
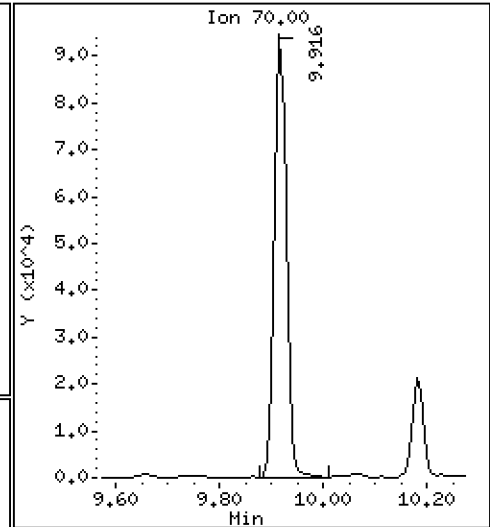
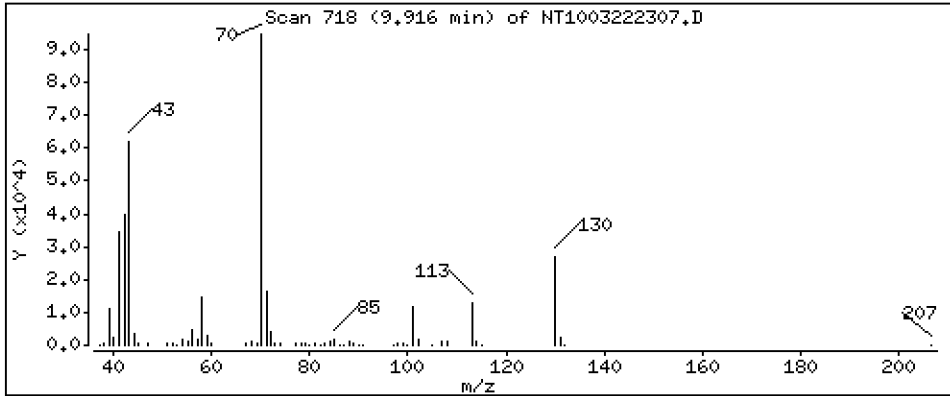
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 3,876 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

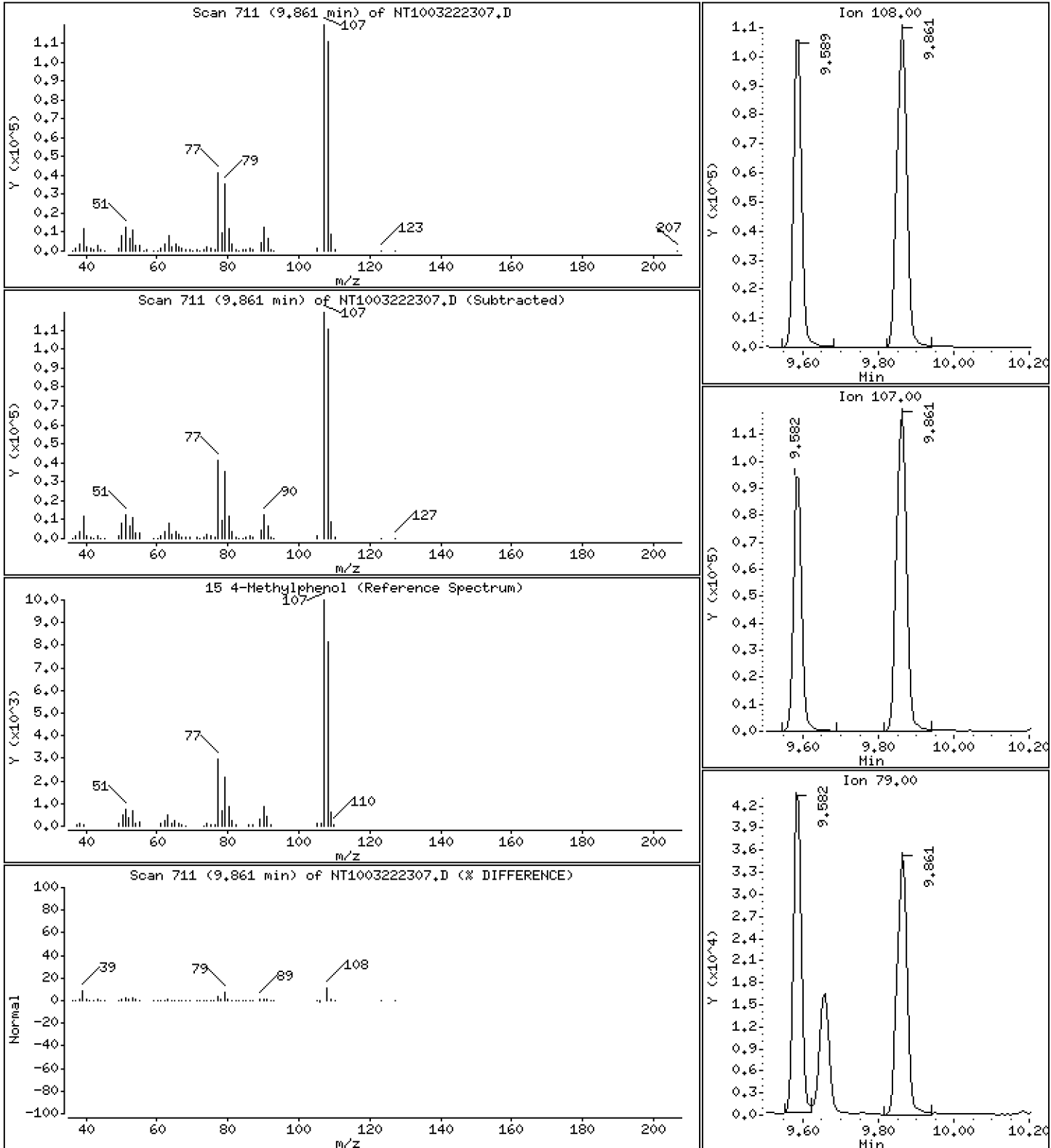
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 4.049 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

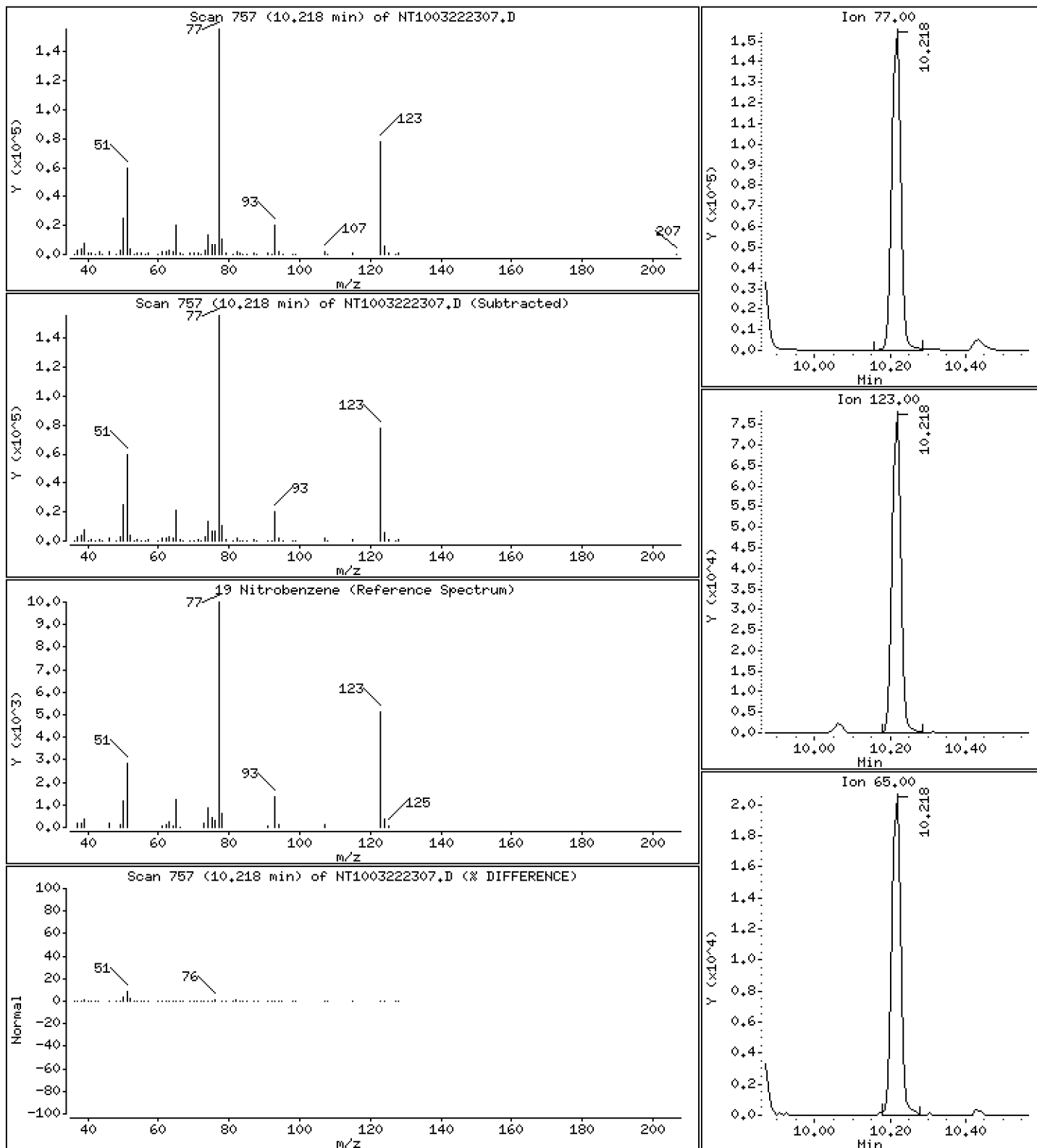
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,221 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

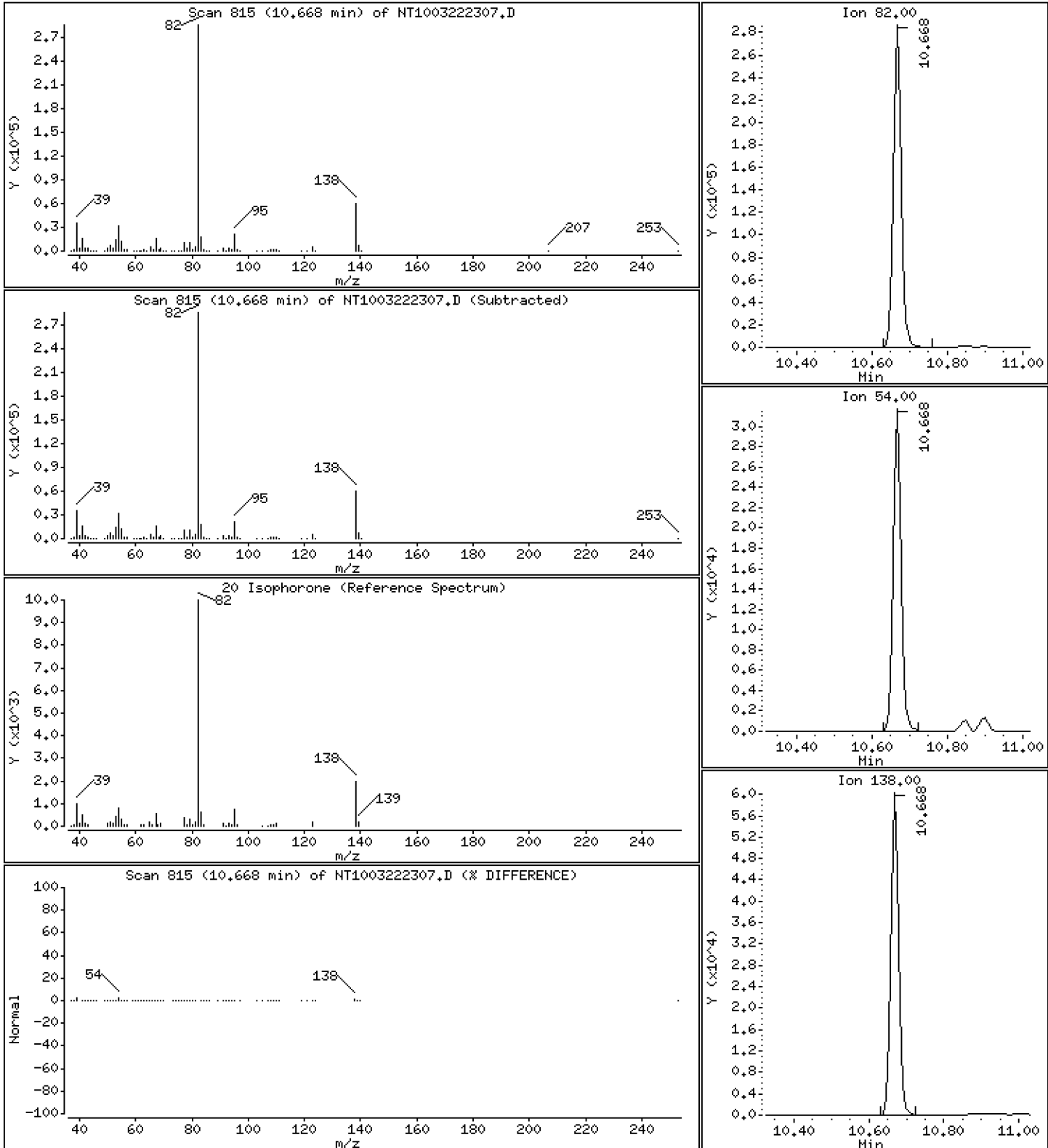
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 5,879 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

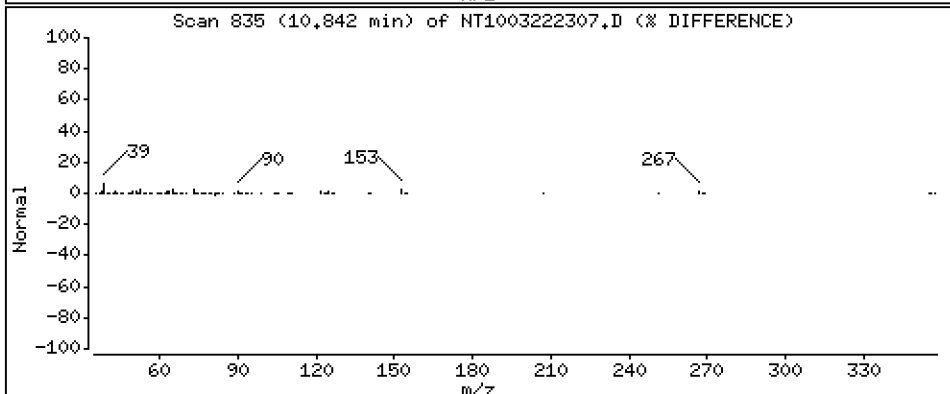
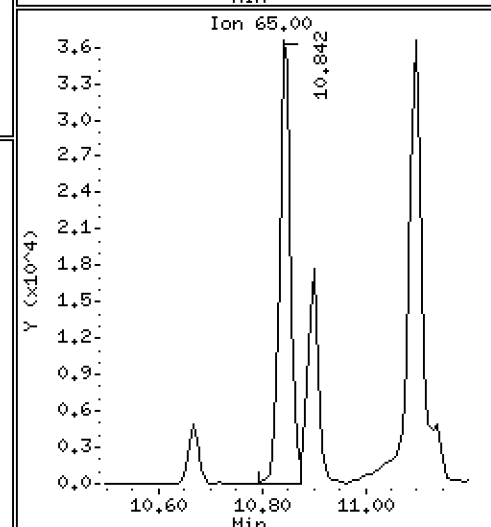
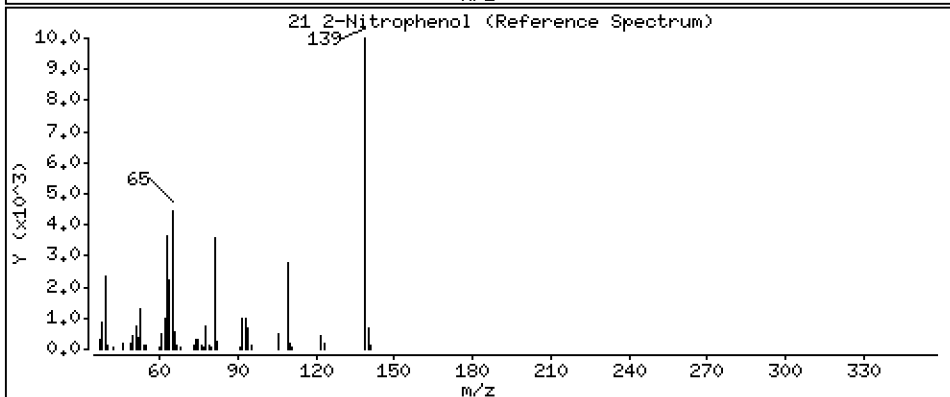
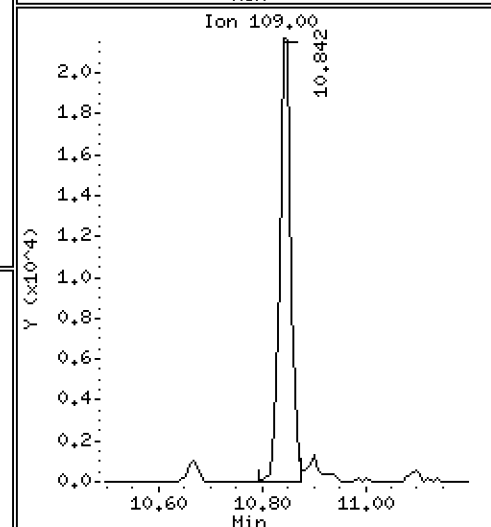
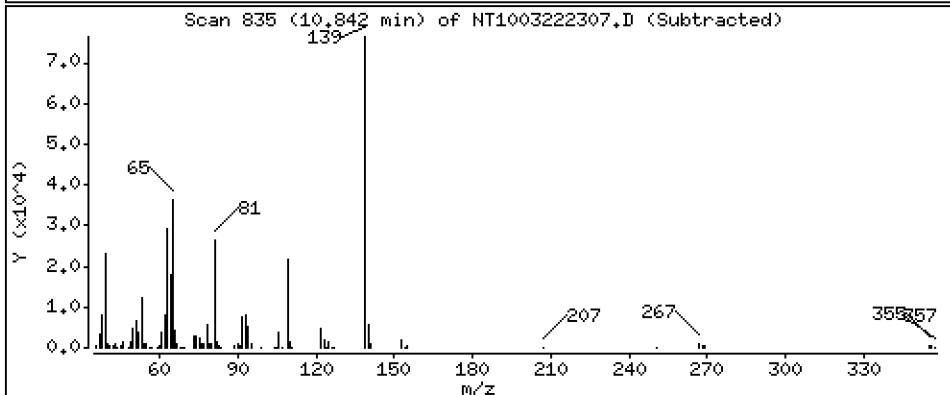
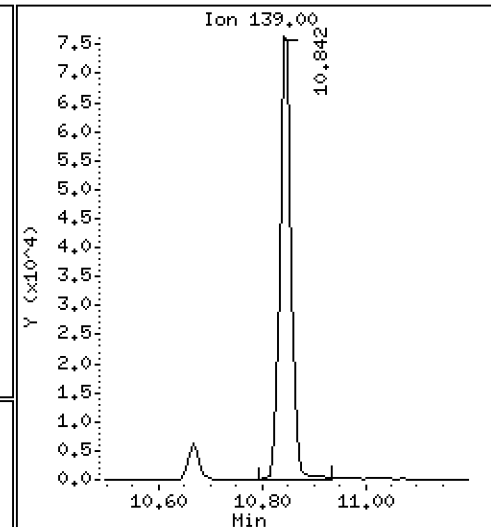
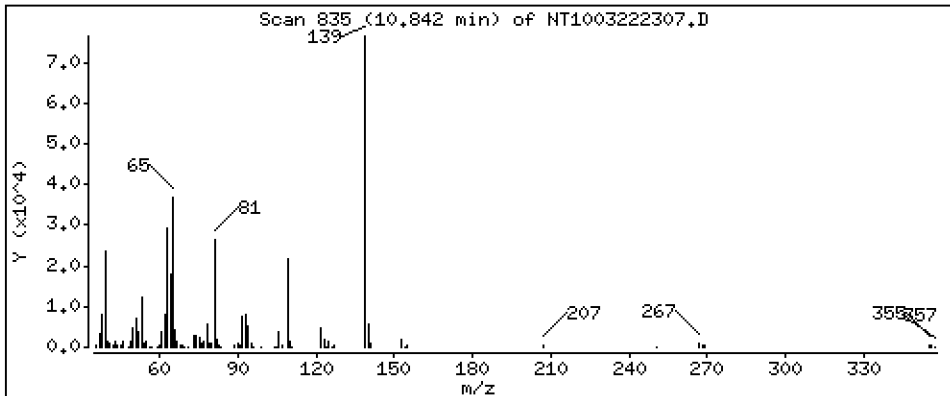
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,956 ug/mL





Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

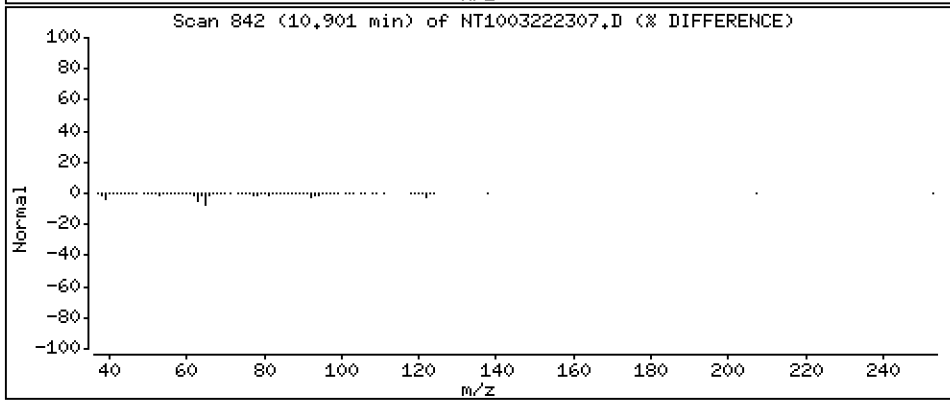
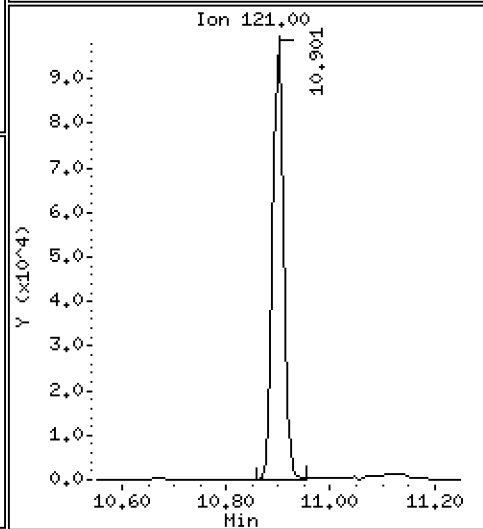
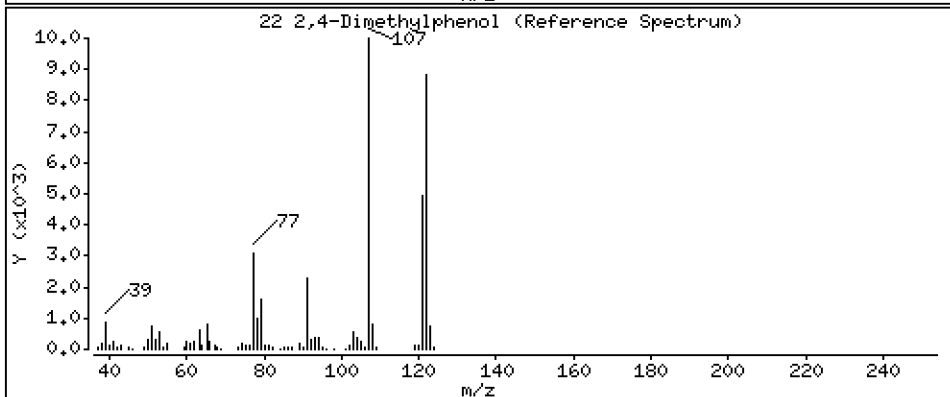
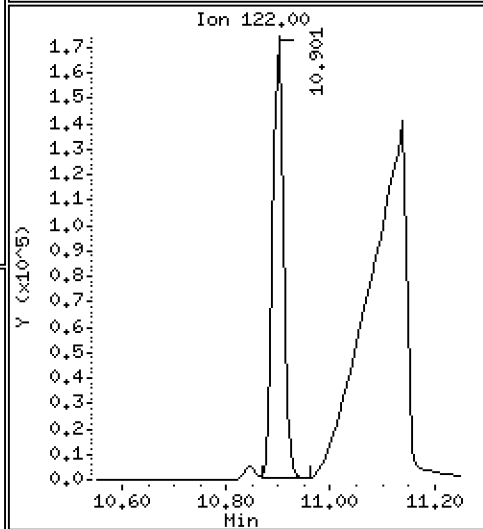
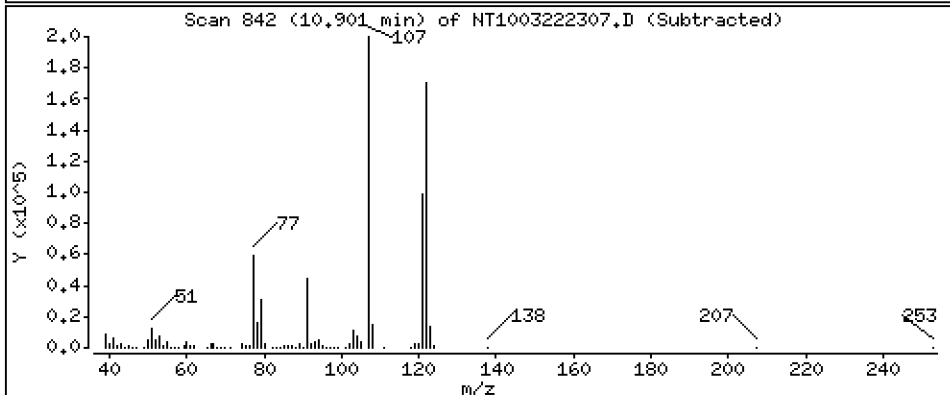
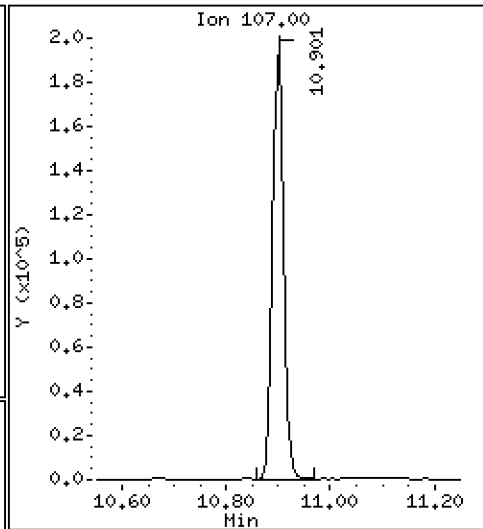
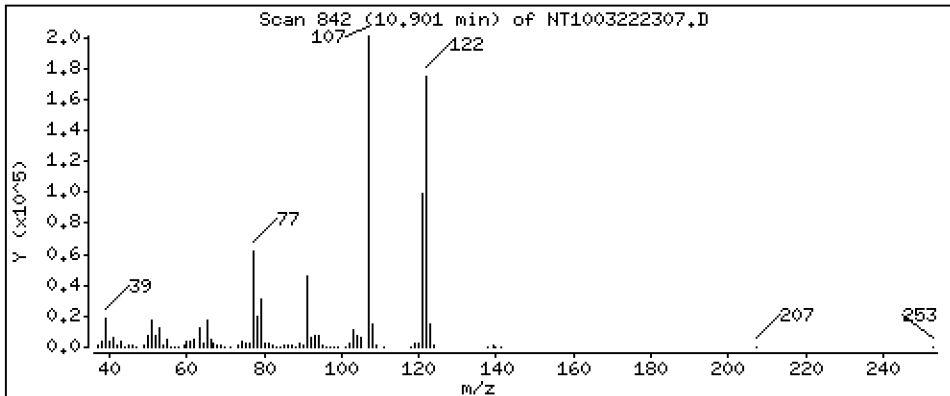
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 5,507 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

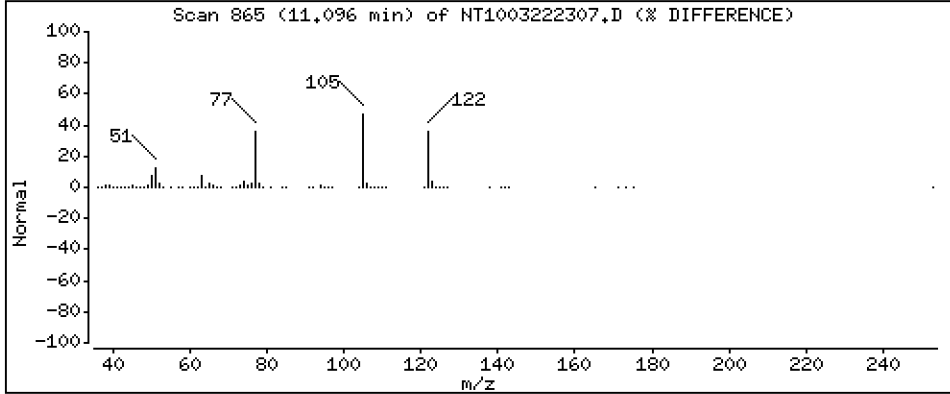
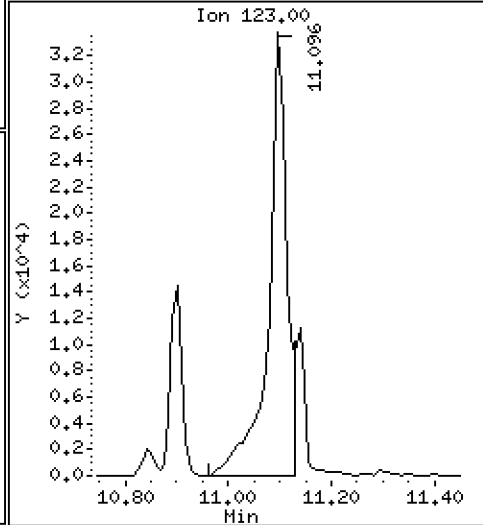
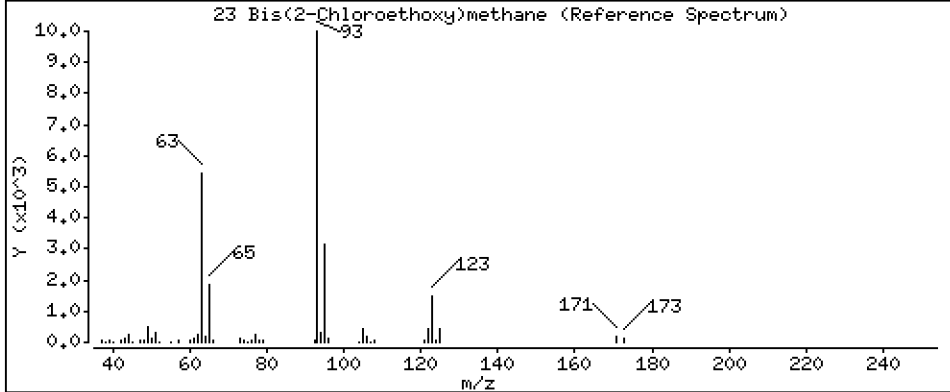
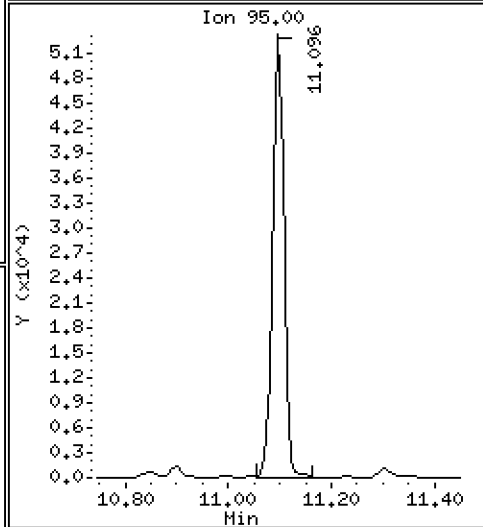
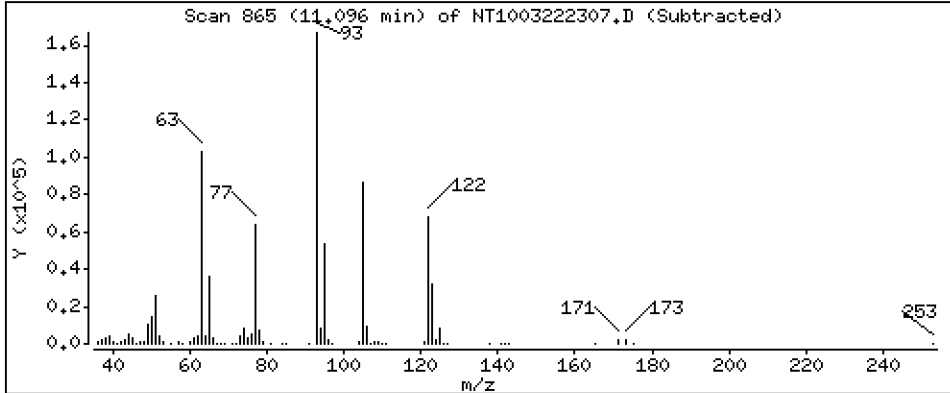
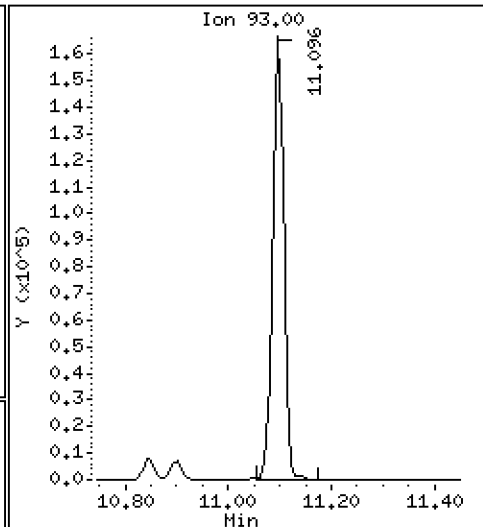
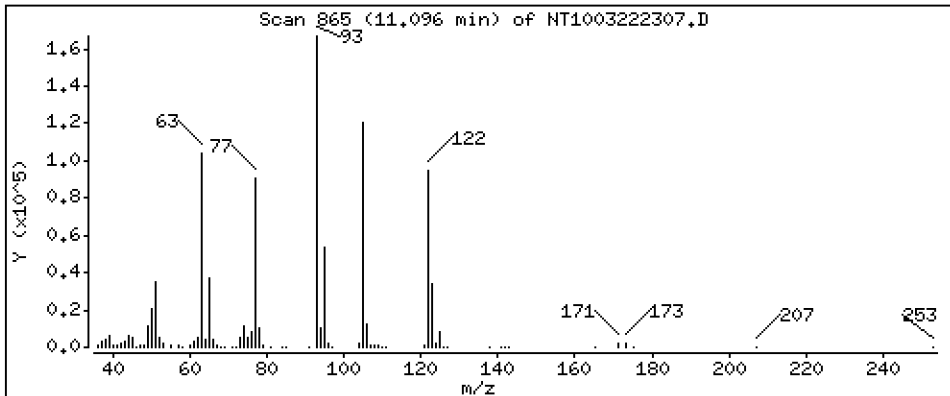
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,023 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

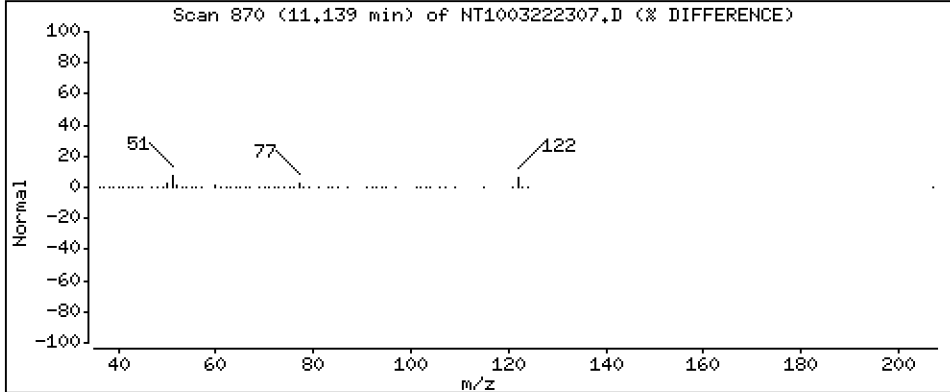
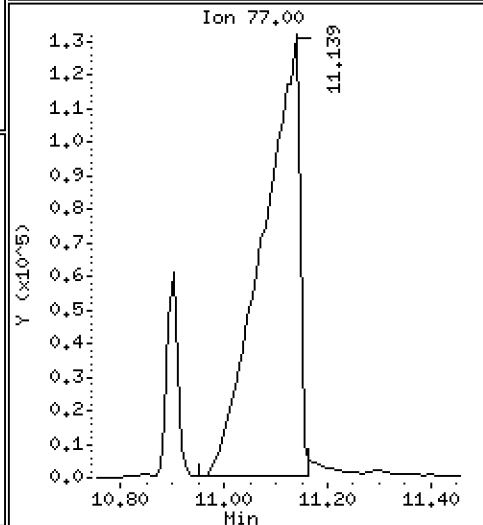
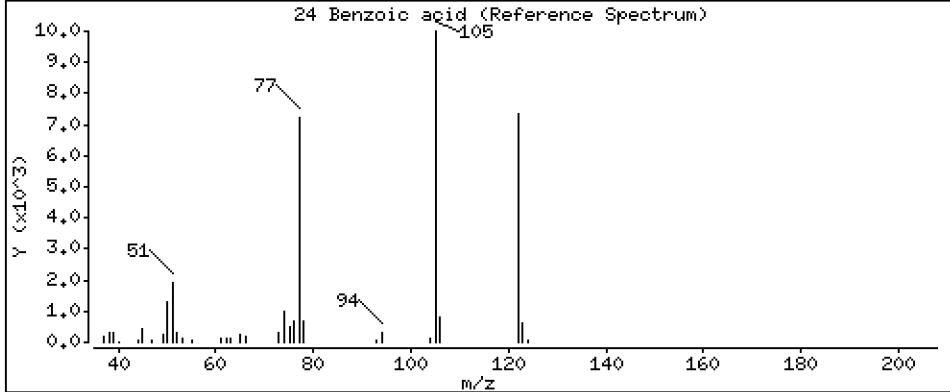
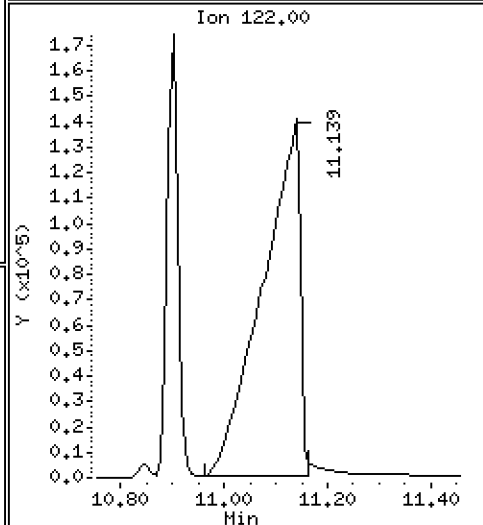
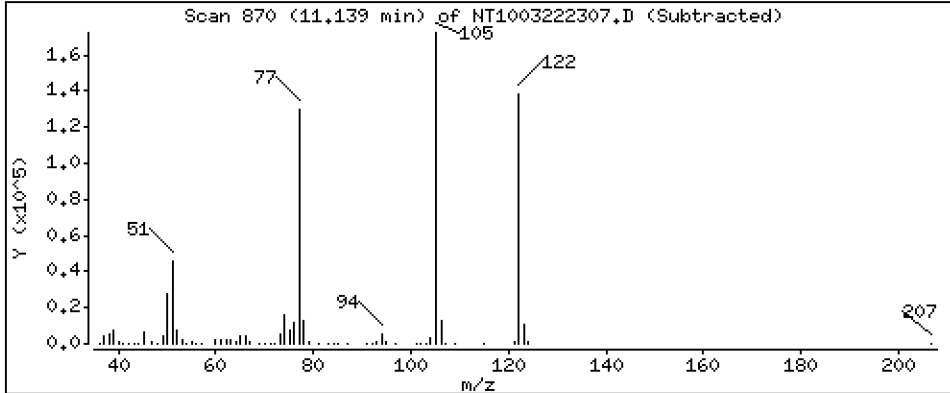
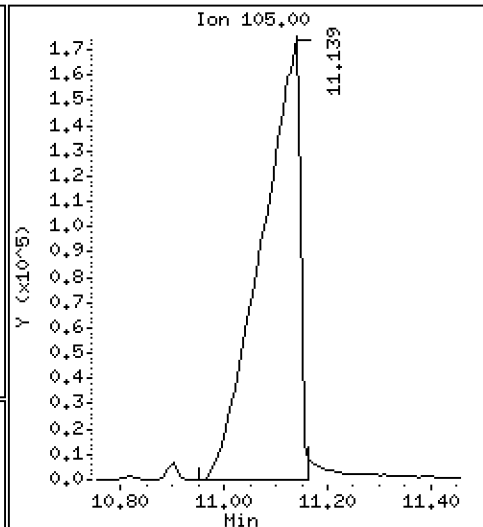
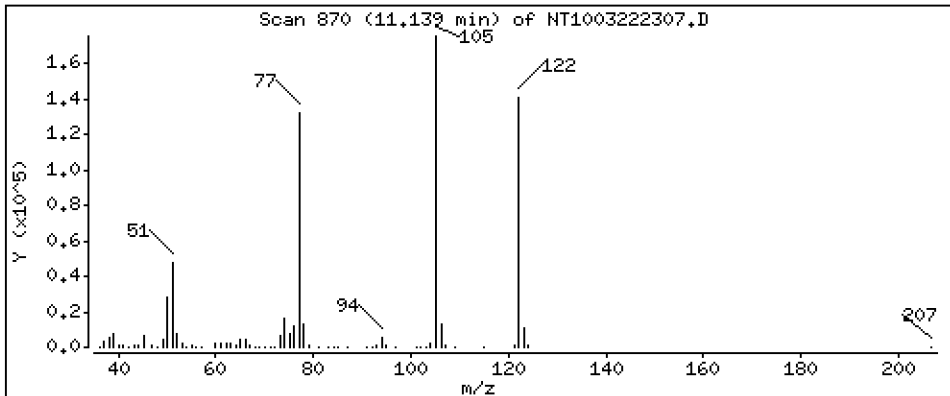
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 28,95 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

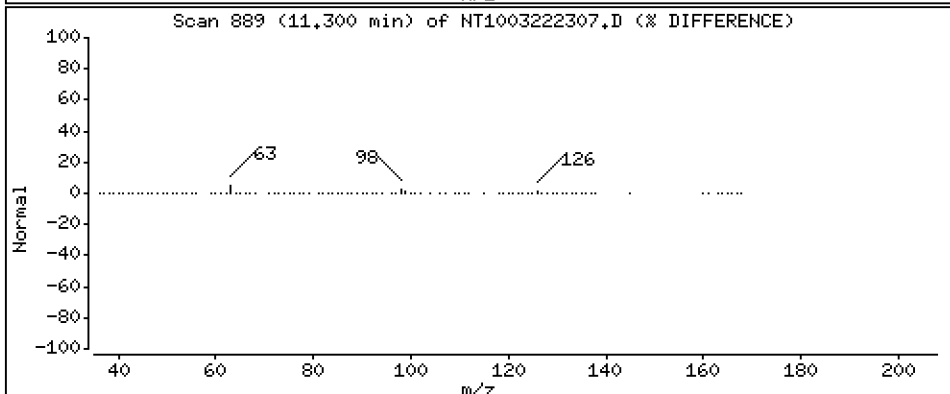
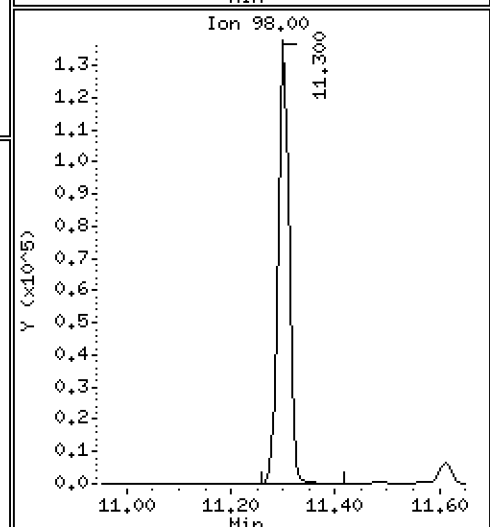
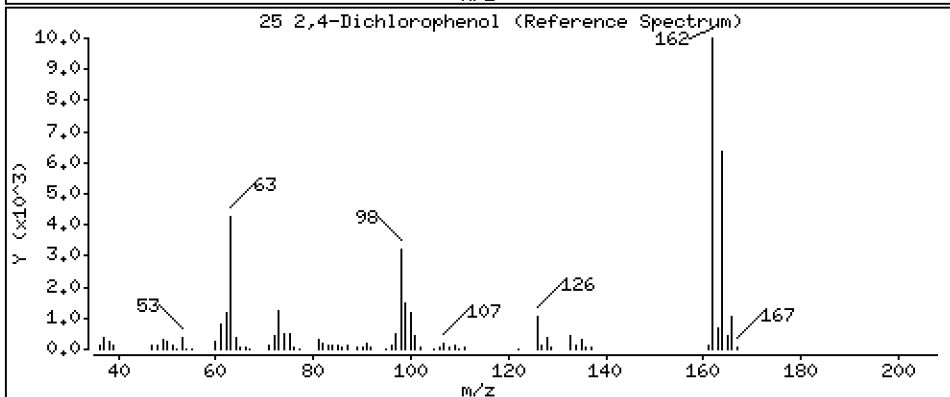
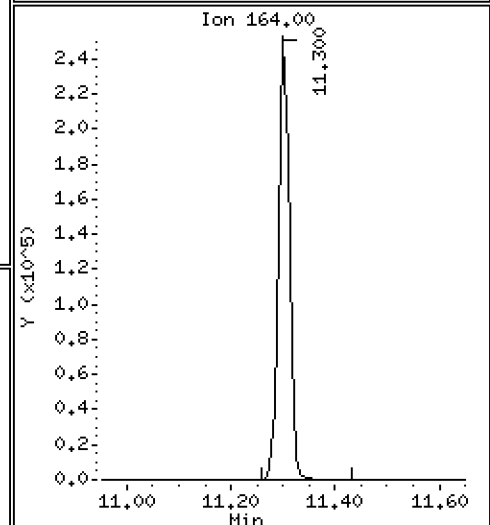
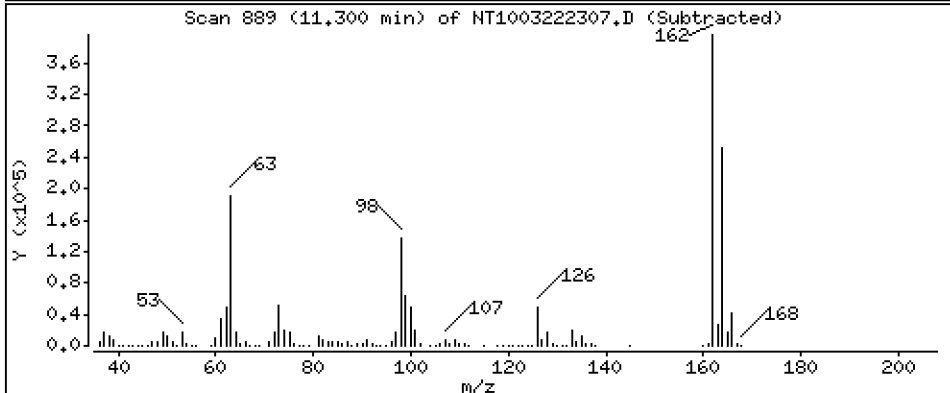
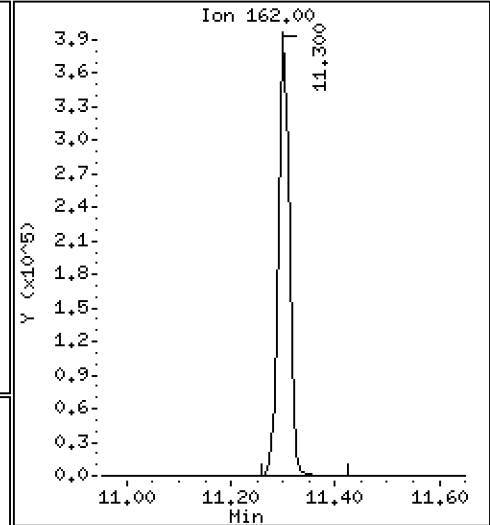
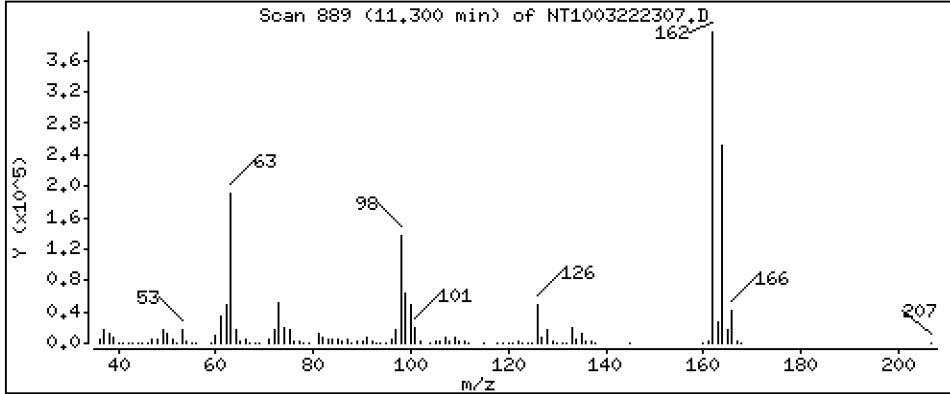
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 15,16 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

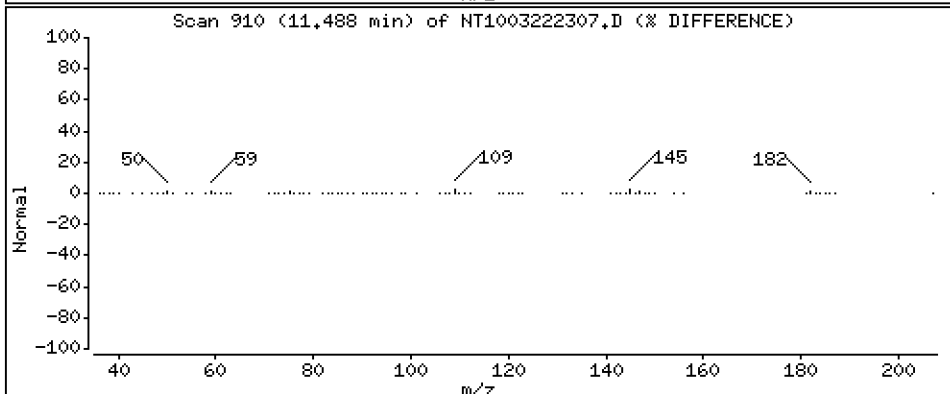
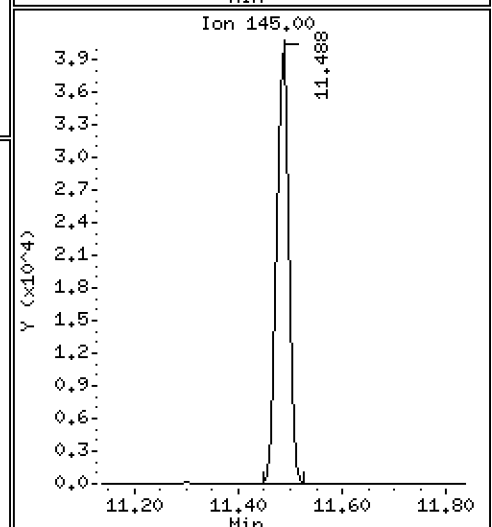
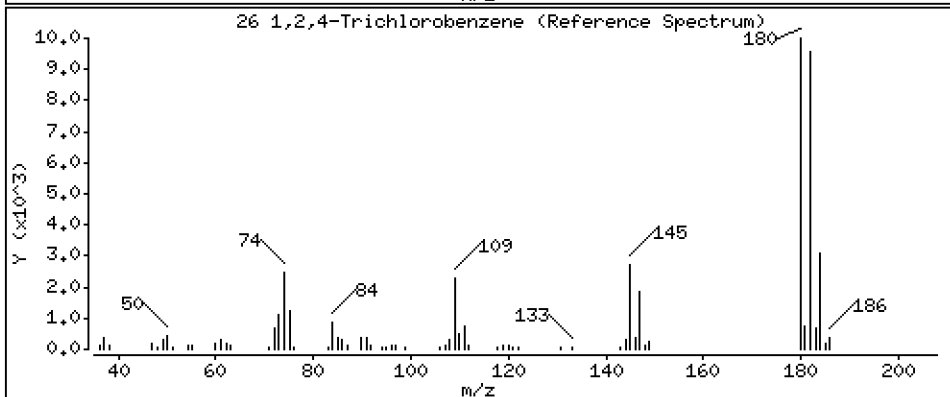
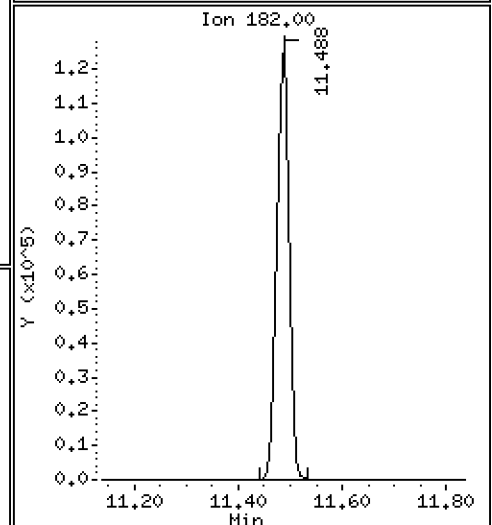
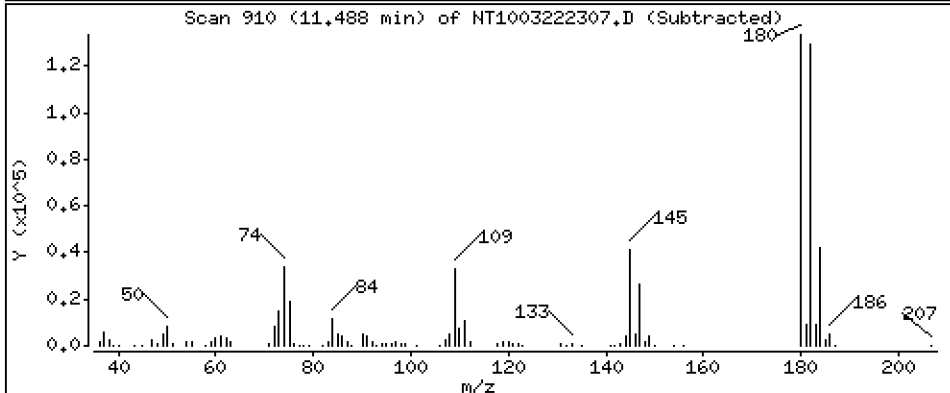
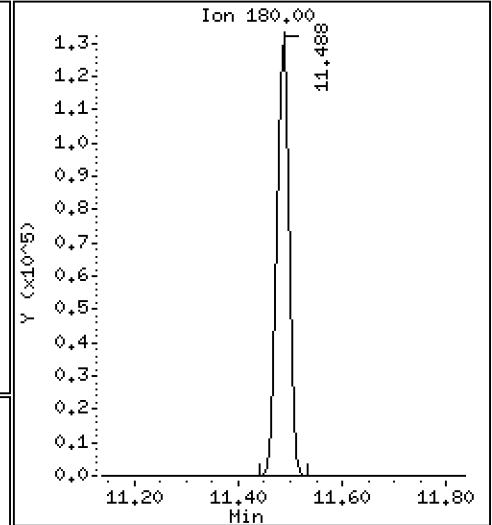
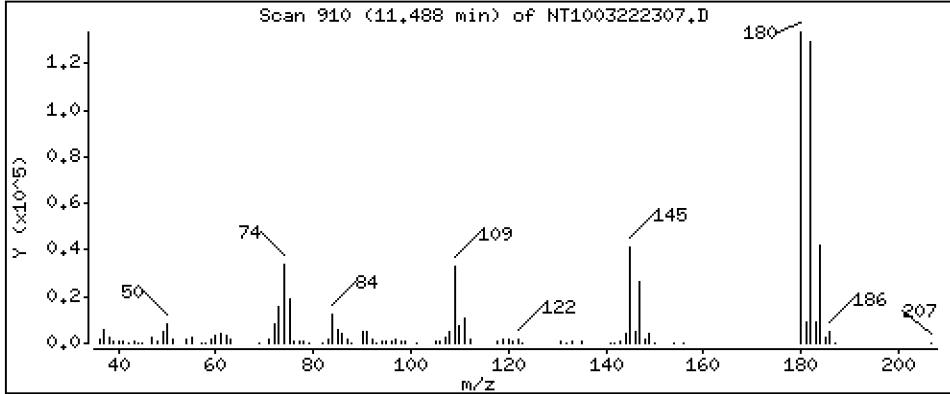
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,252 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

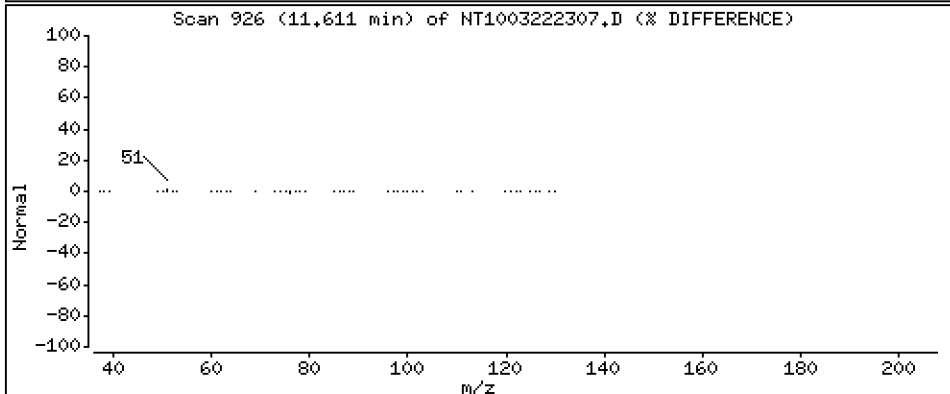
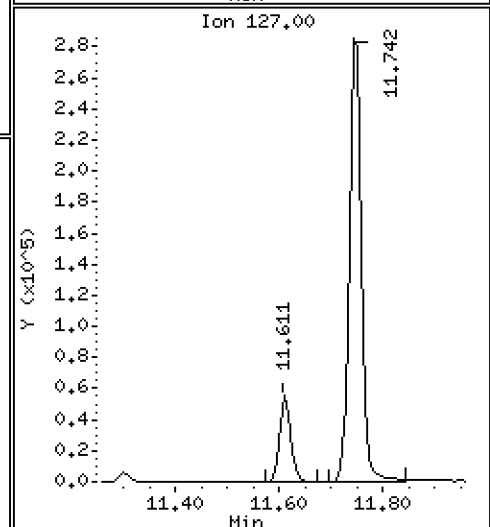
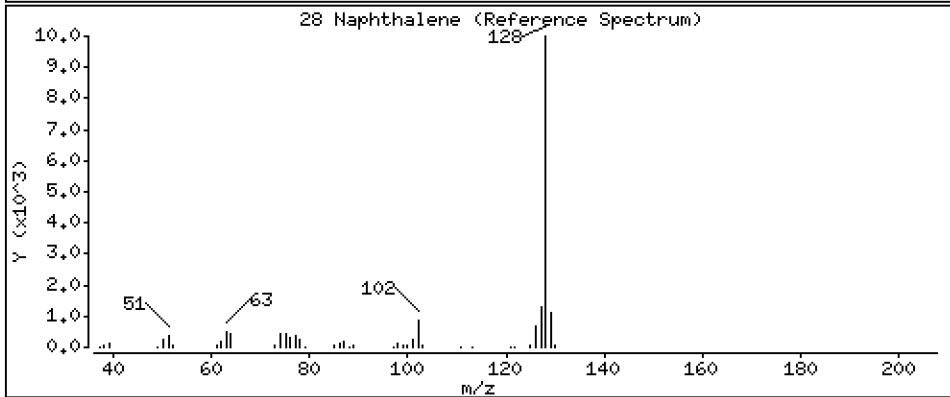
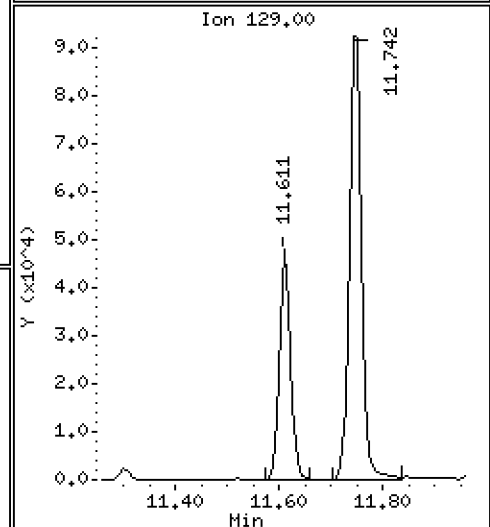
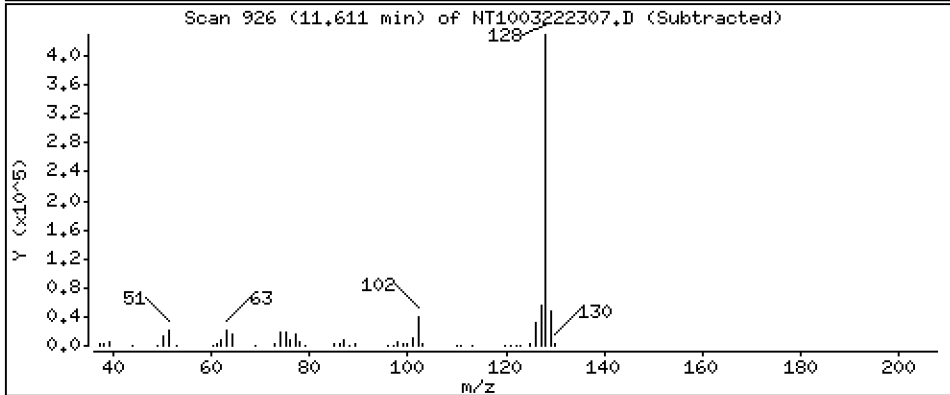
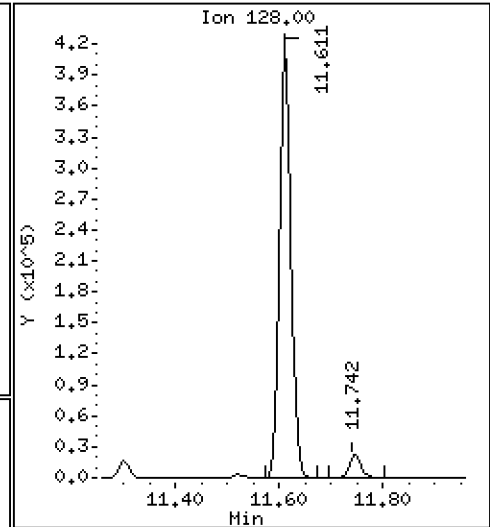
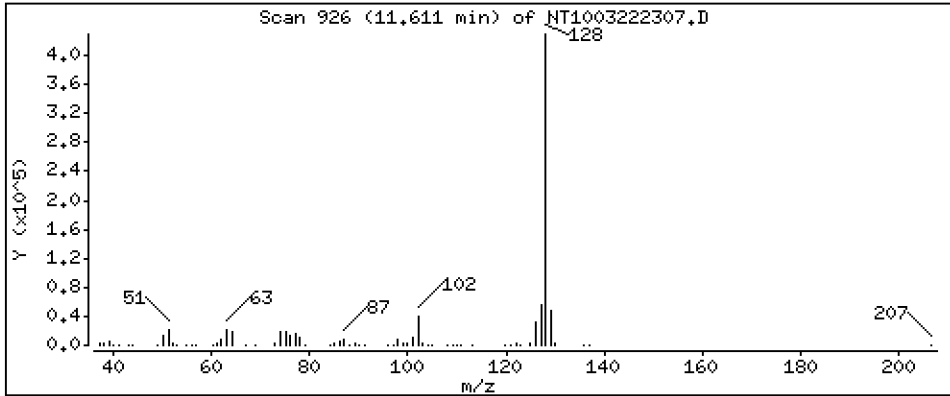
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,234 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

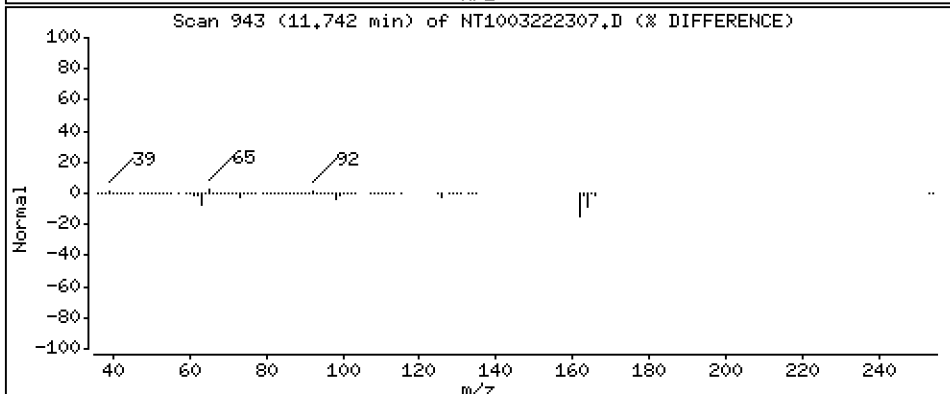
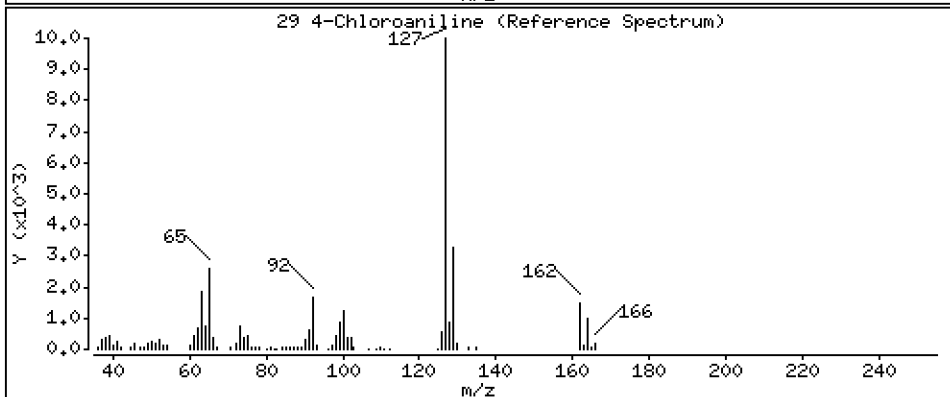
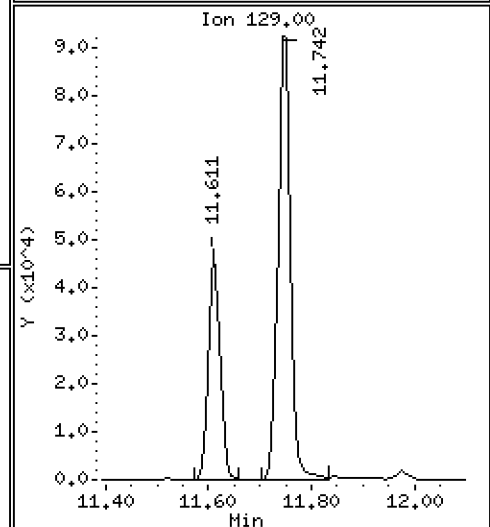
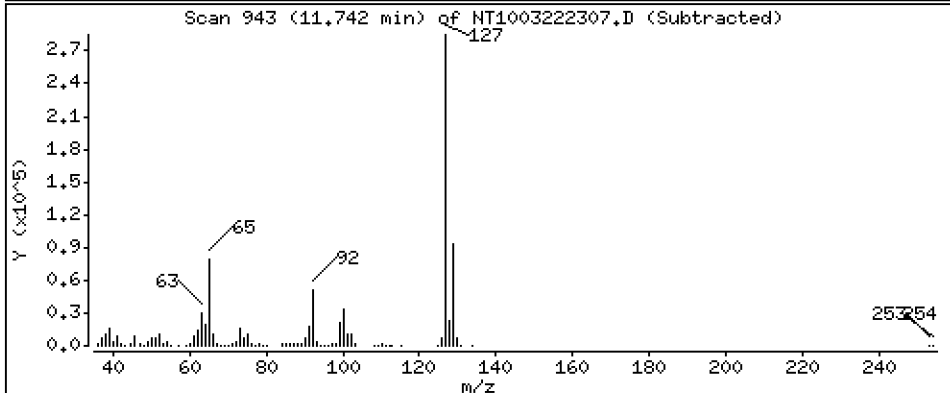
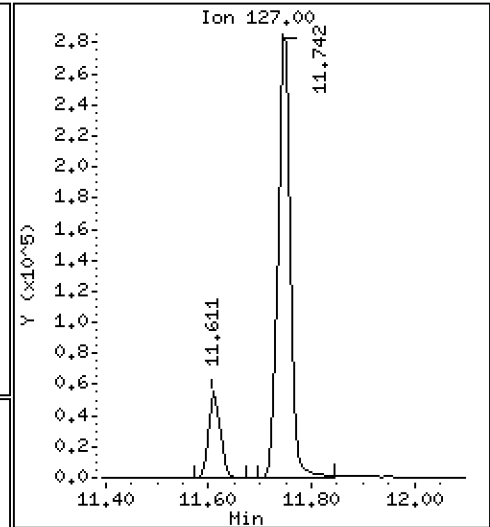
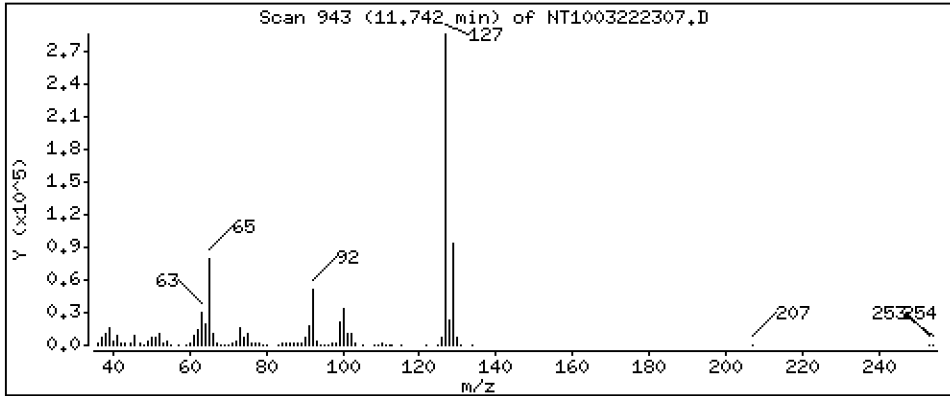
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 8,022 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

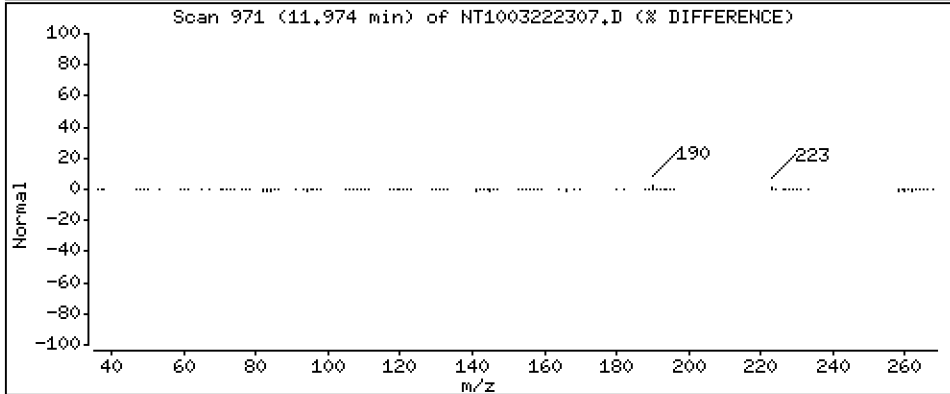
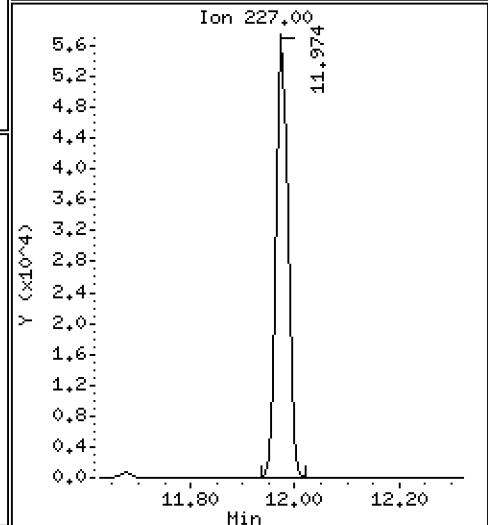
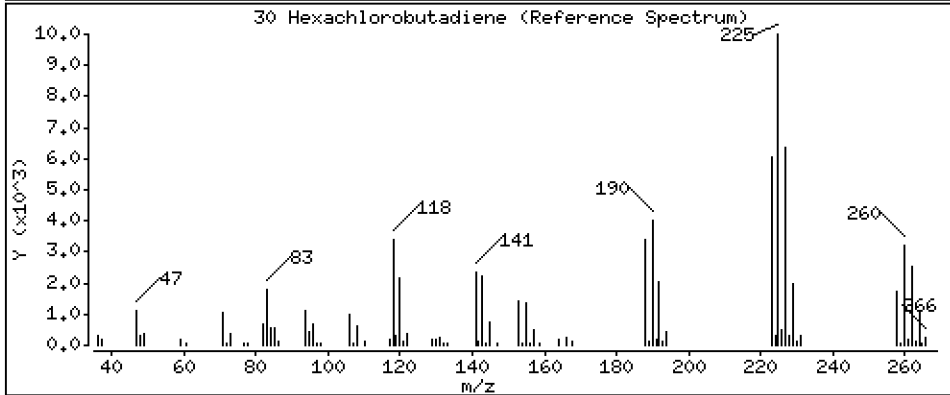
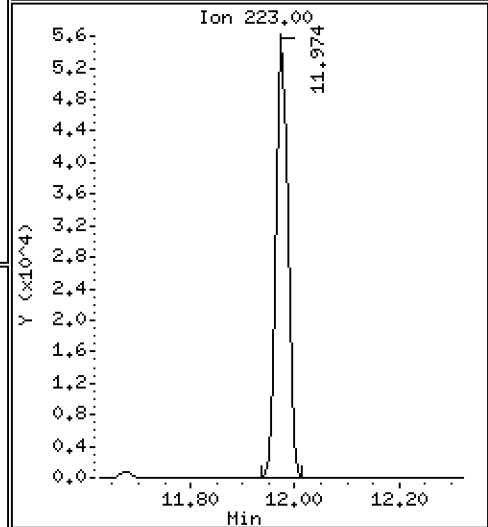
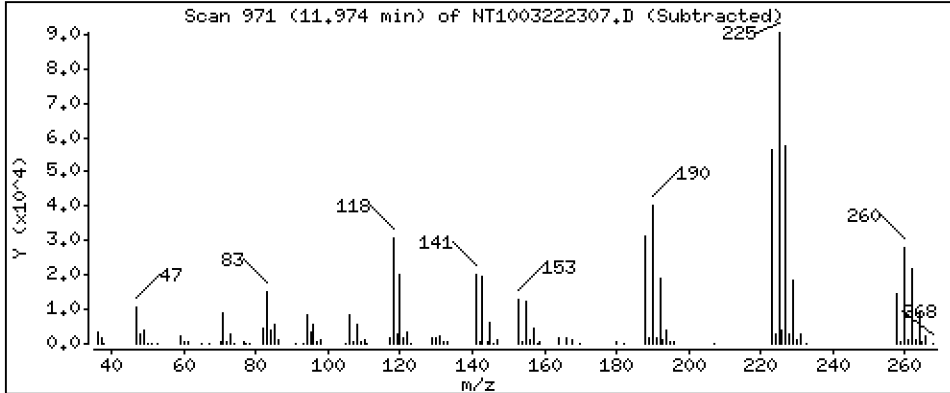
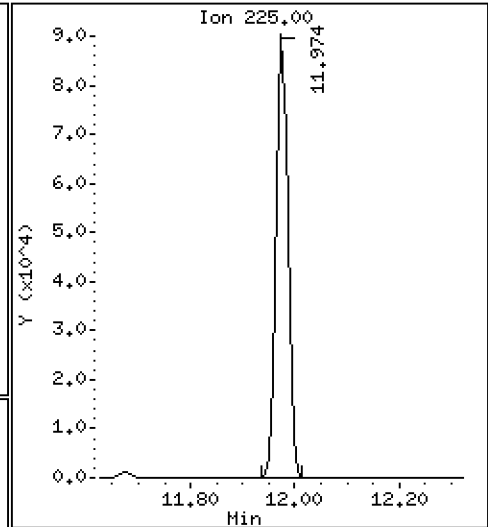
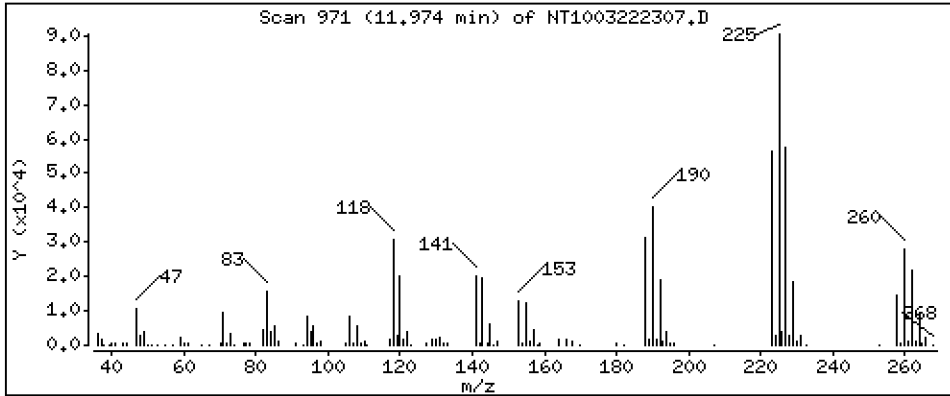
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,664 ug/mL





Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

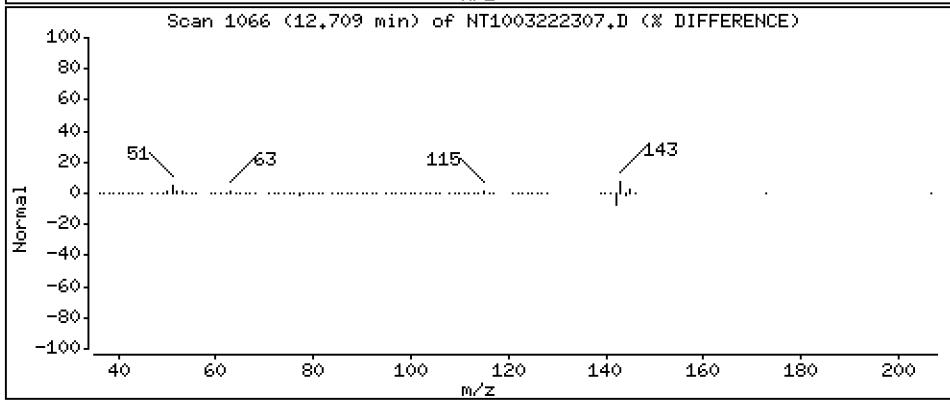
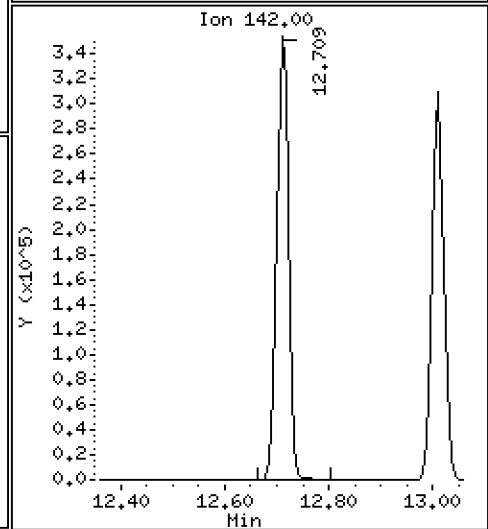
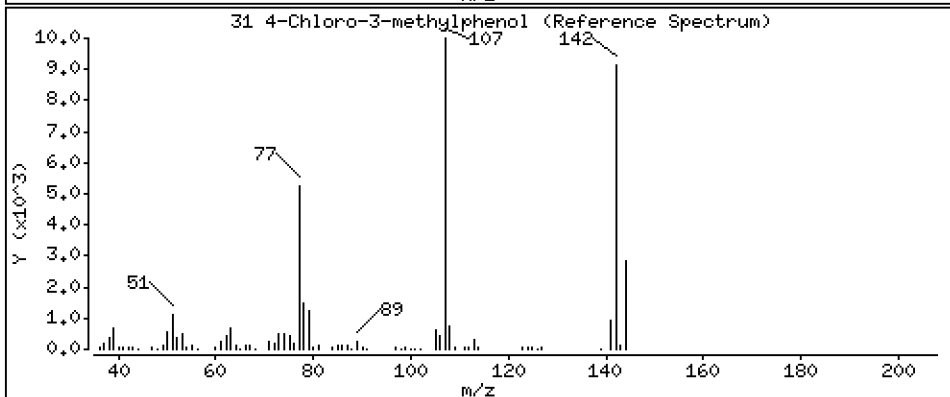
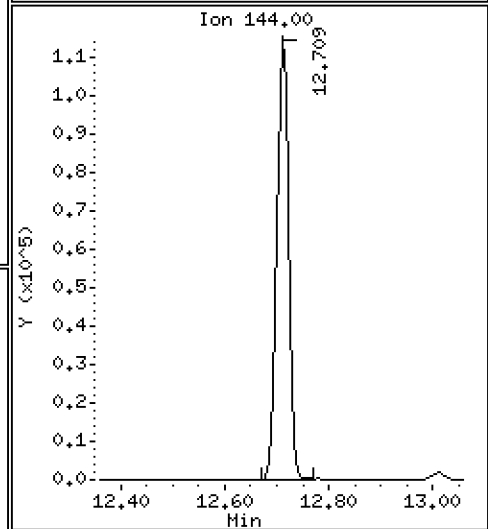
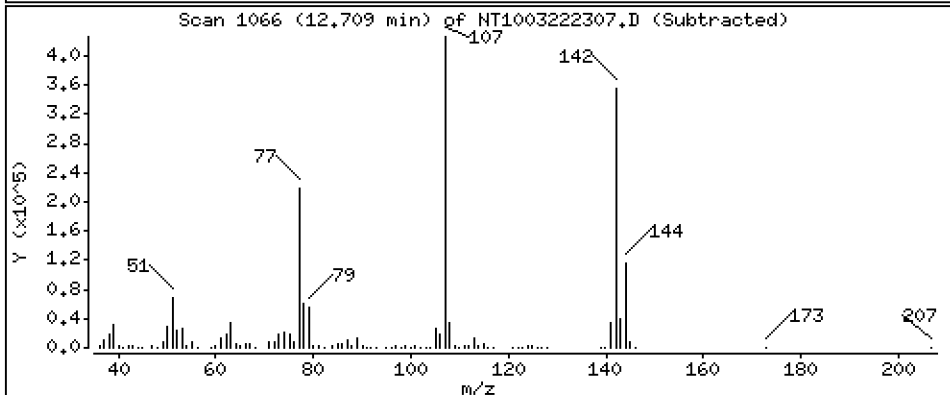
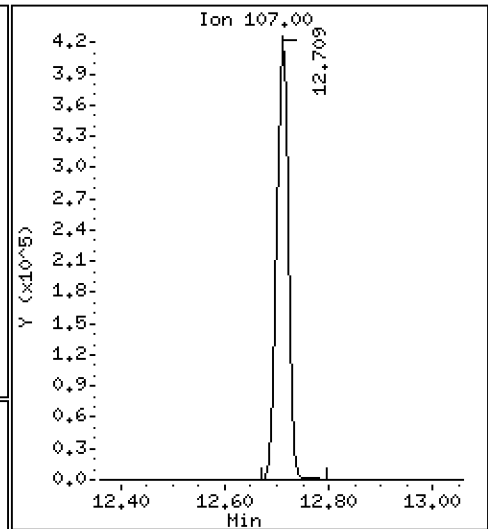
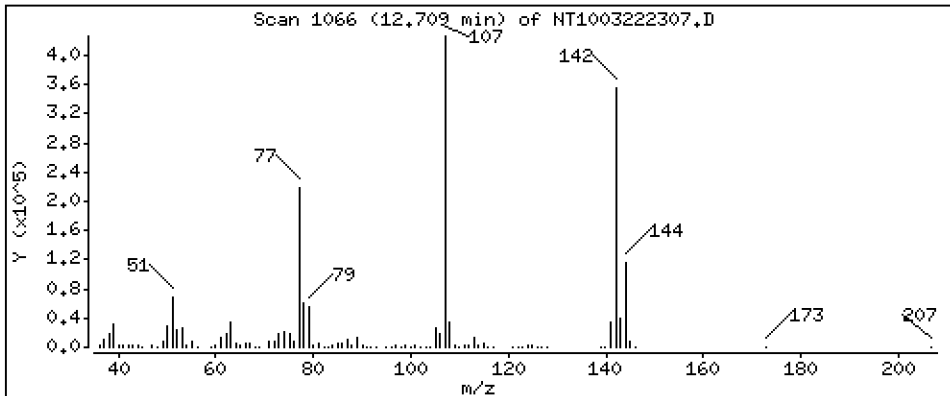
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 13,70 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

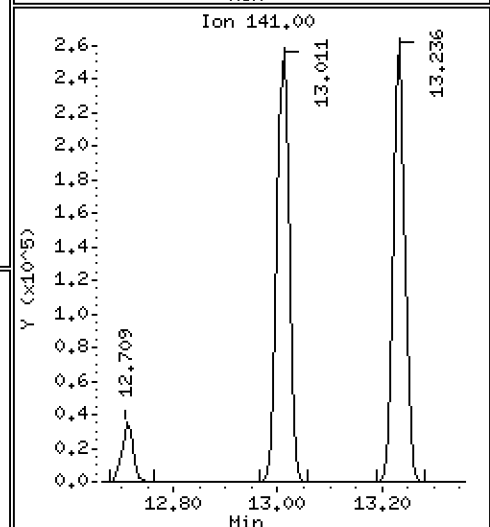
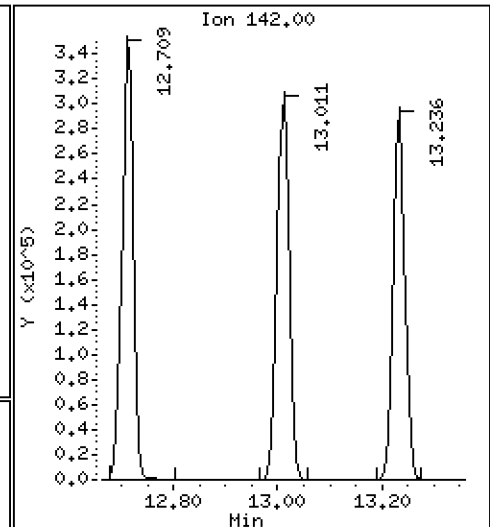
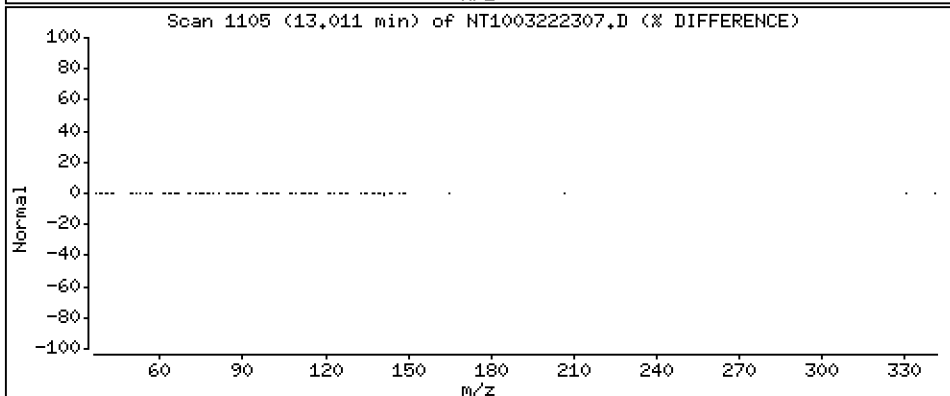
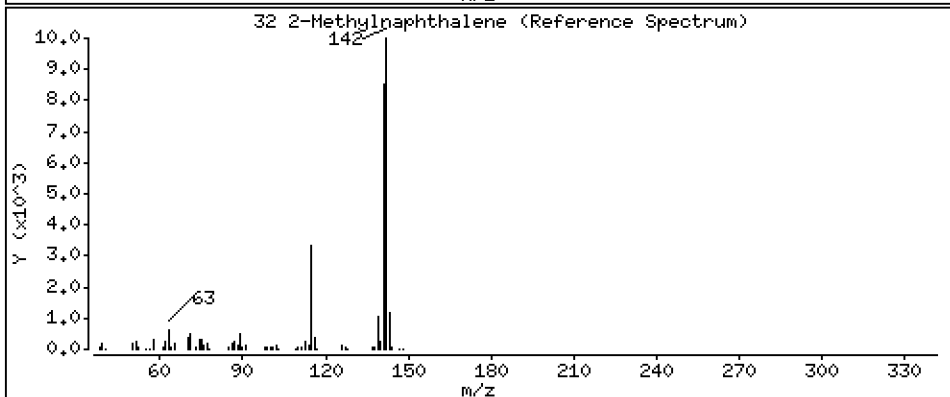
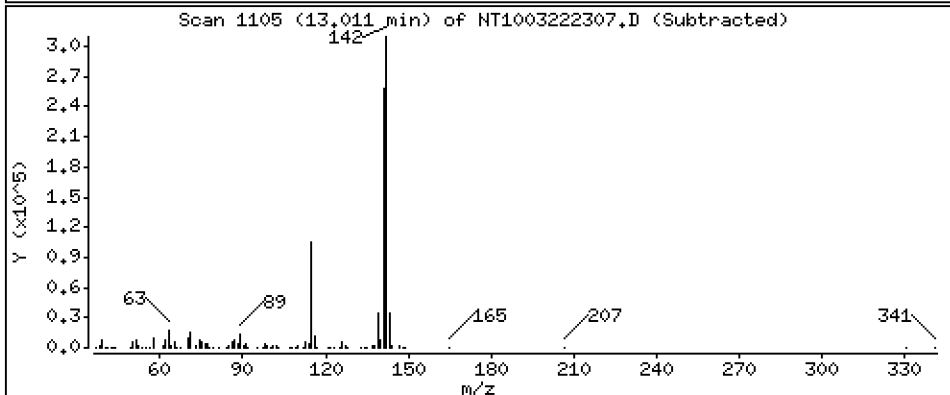
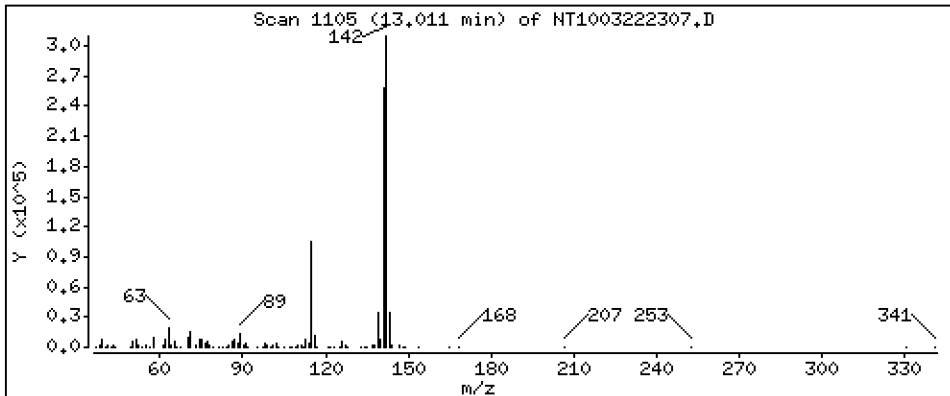
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,329 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

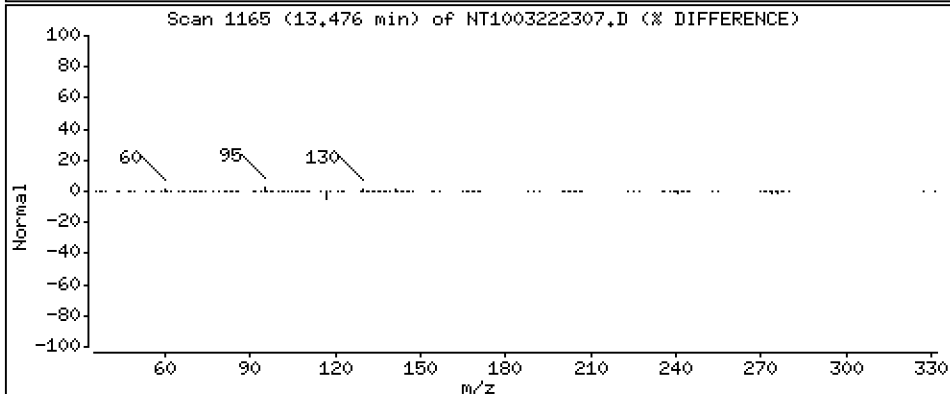
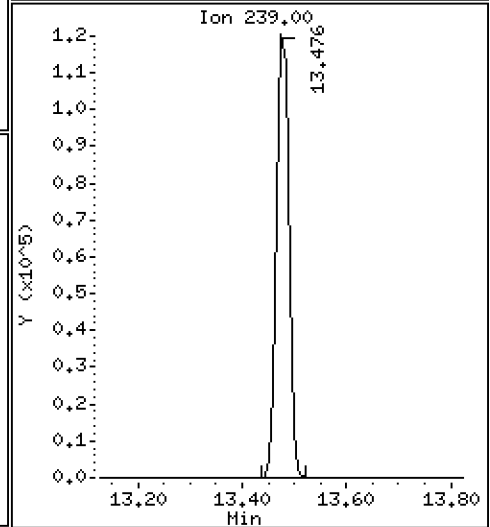
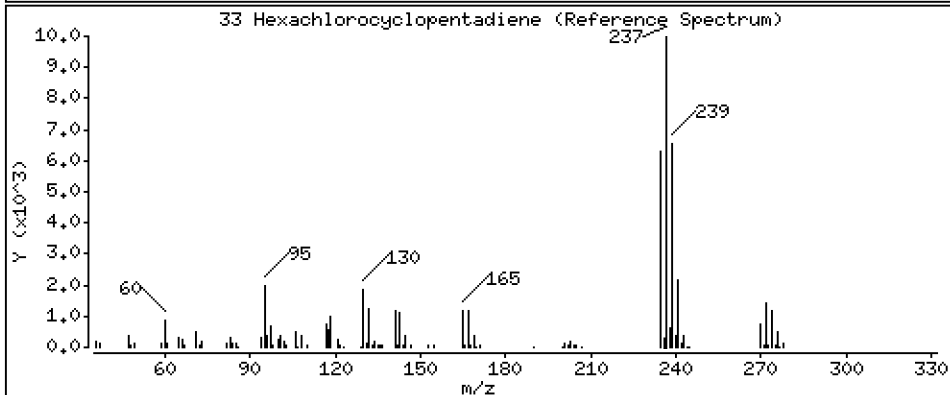
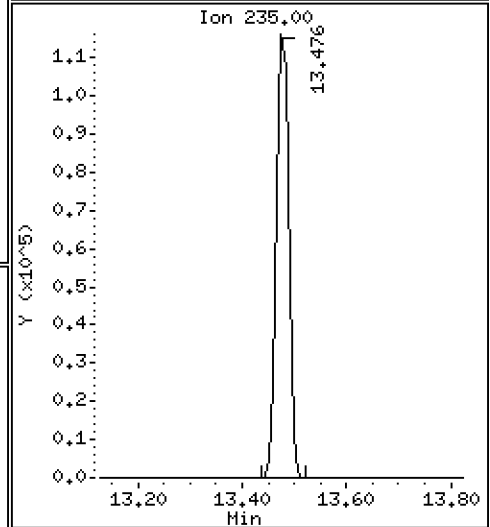
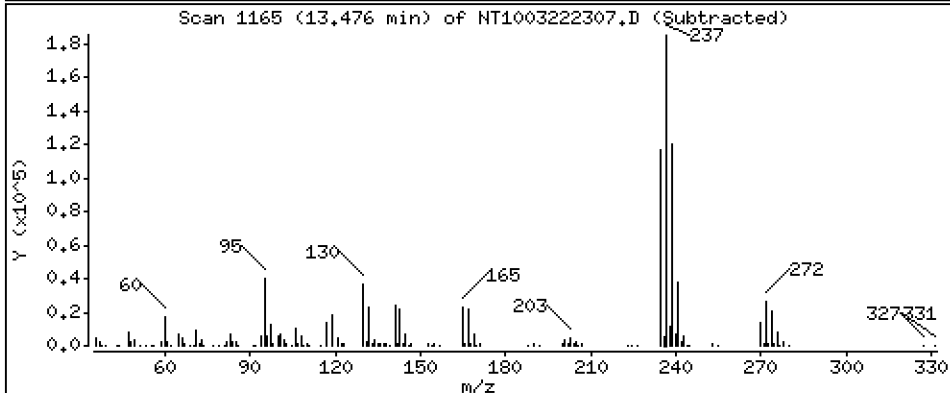
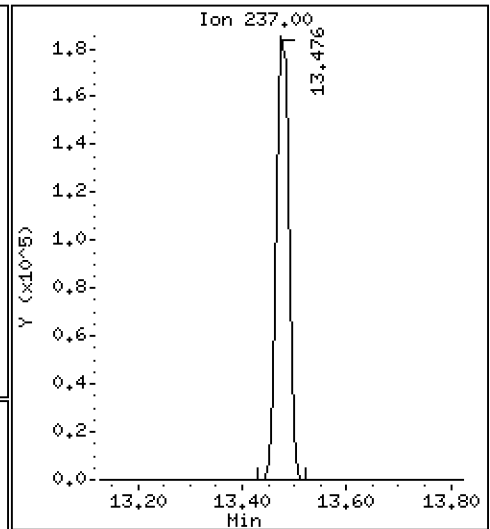
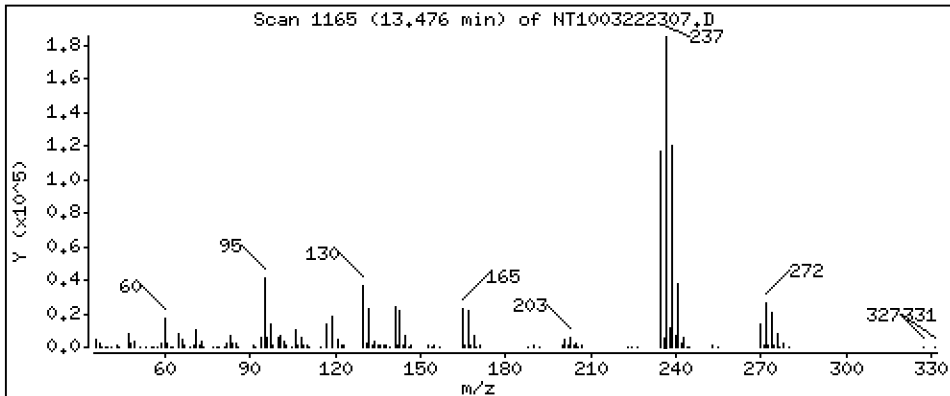
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 9,646 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

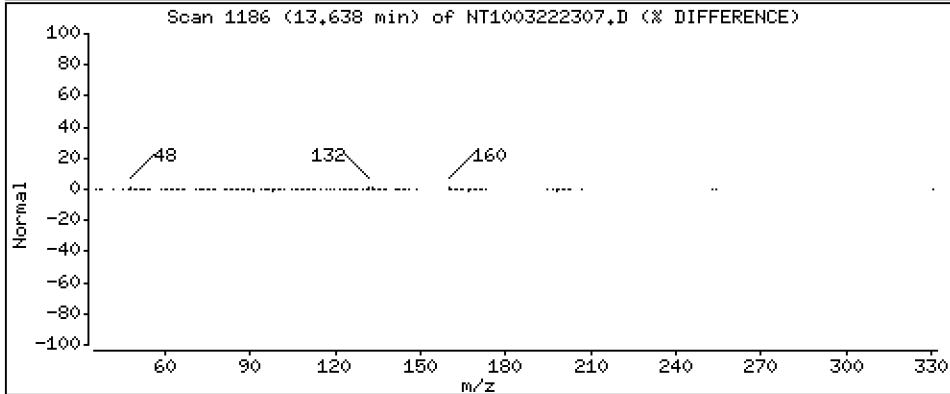
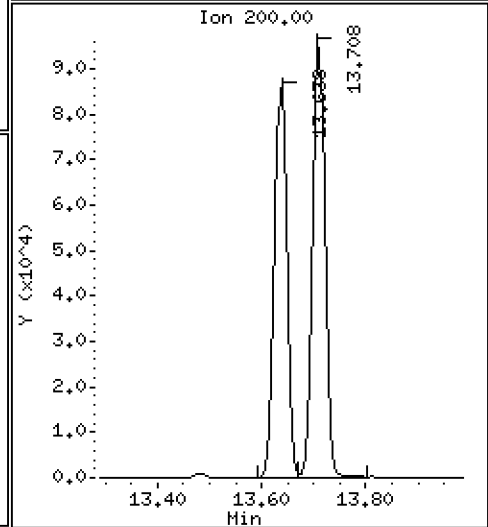
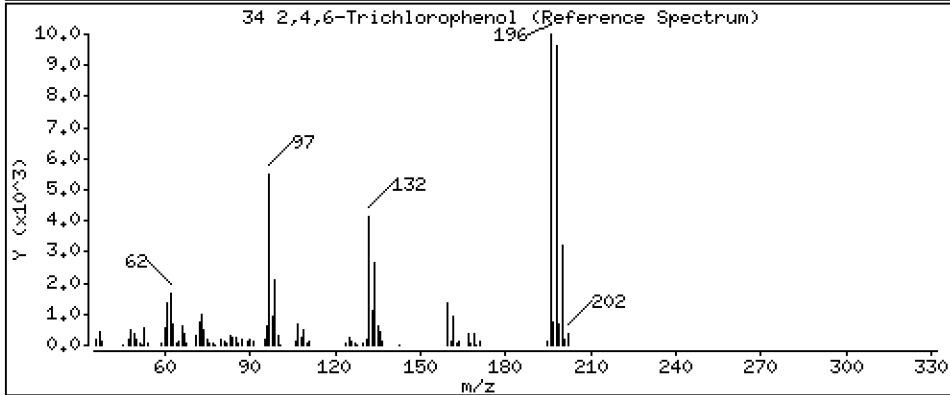
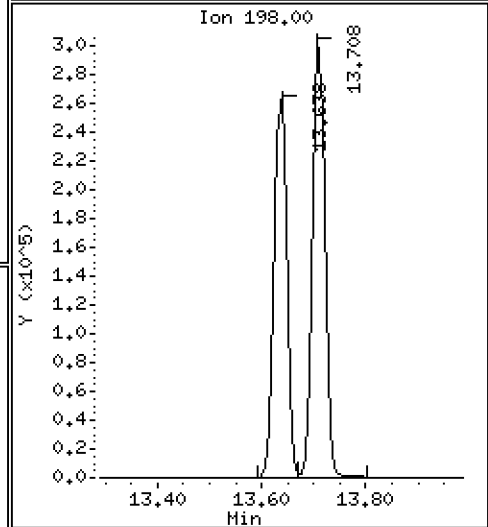
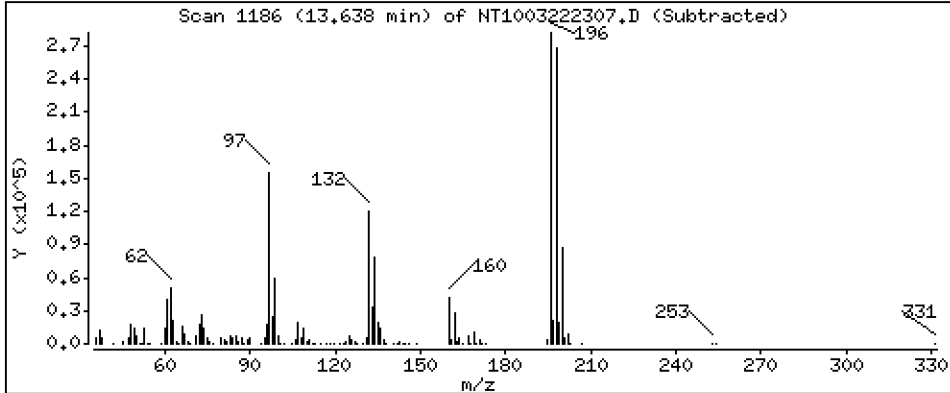
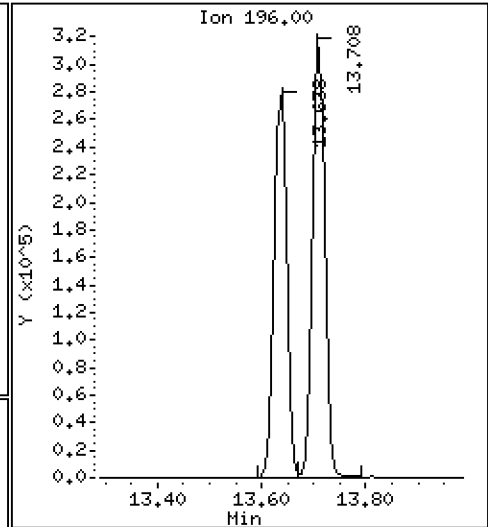
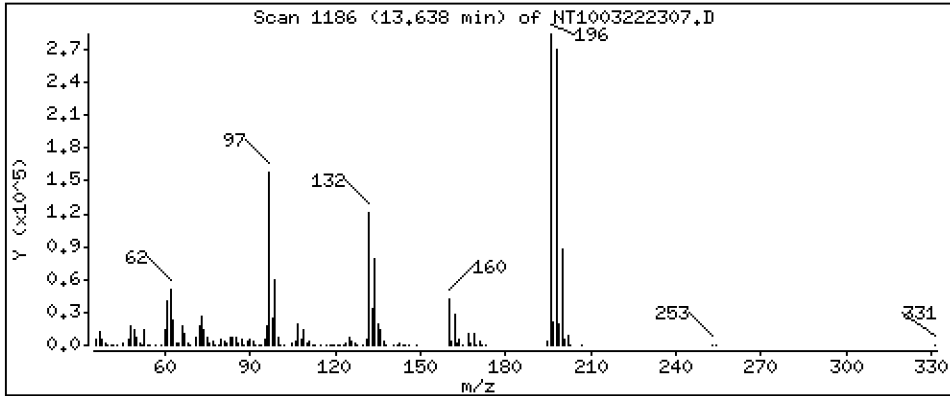
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 13,88 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

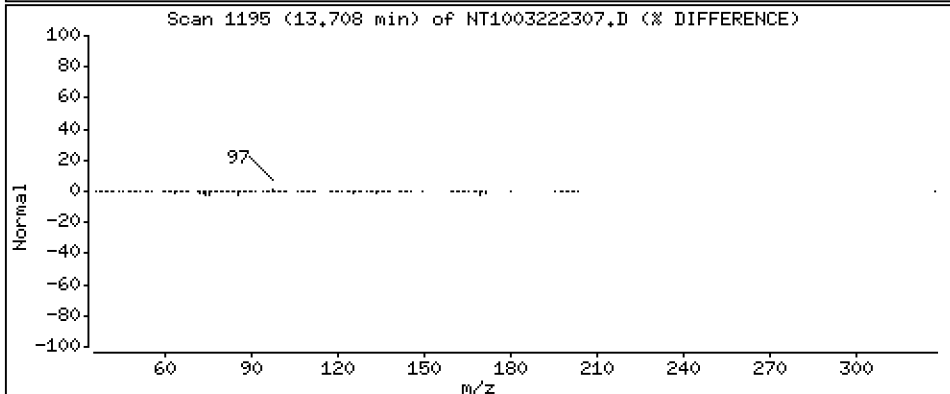
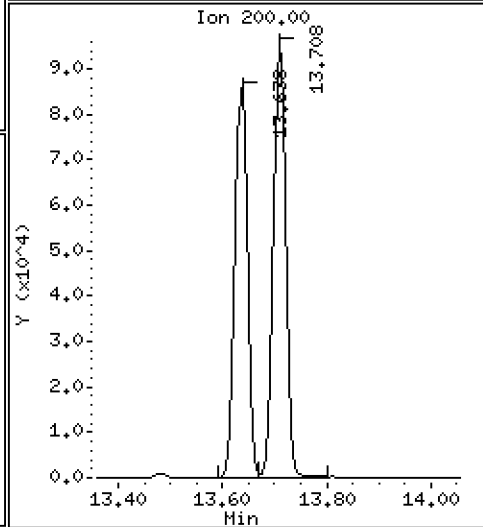
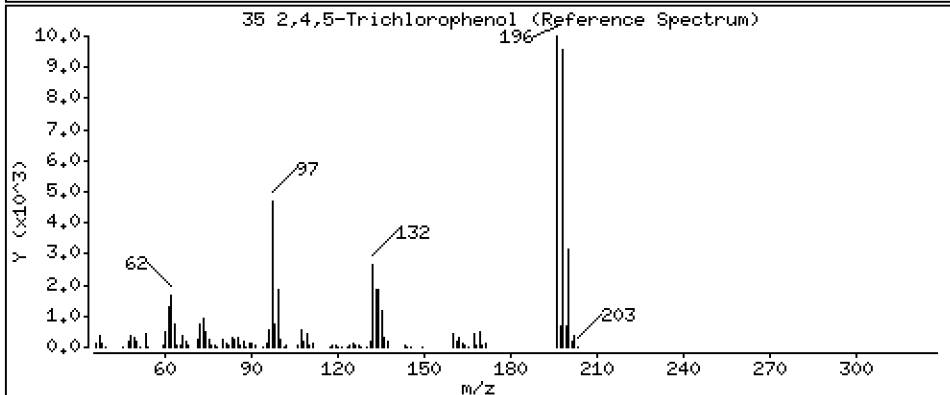
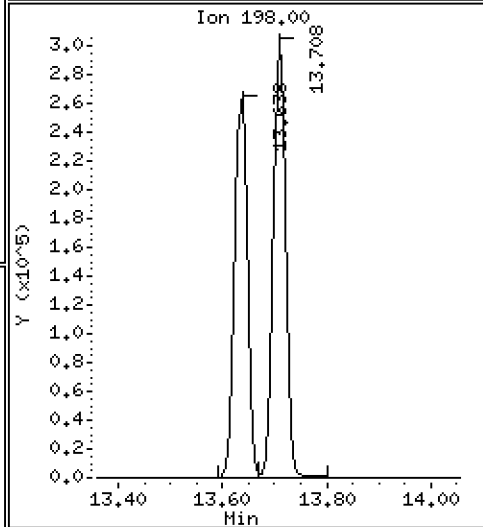
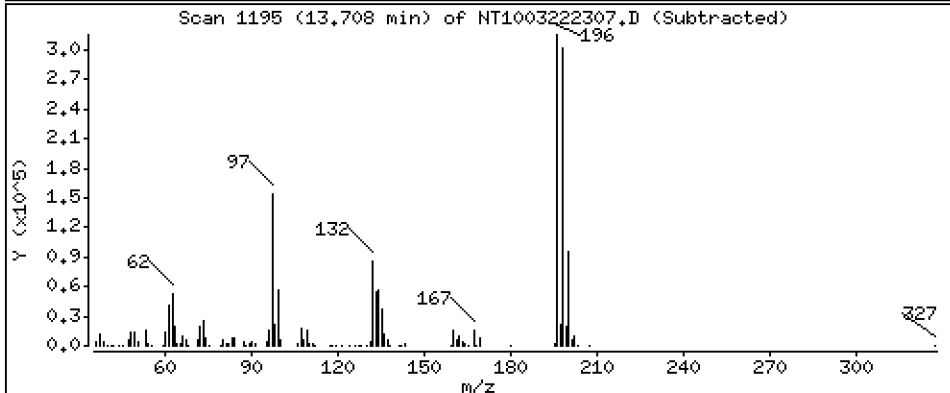
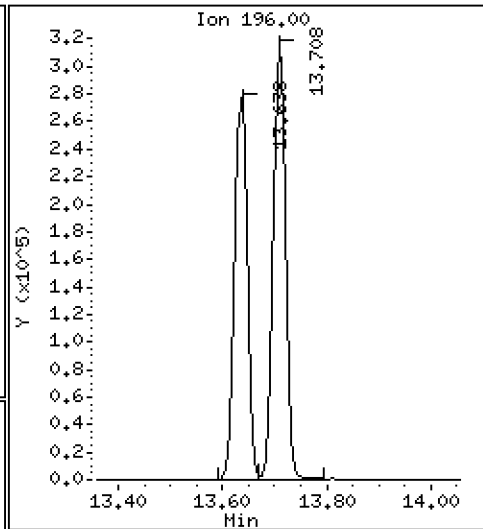
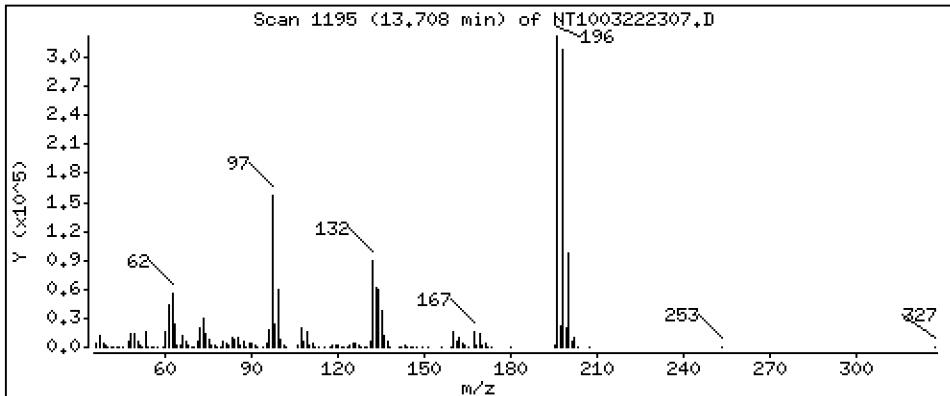
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 13,61 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

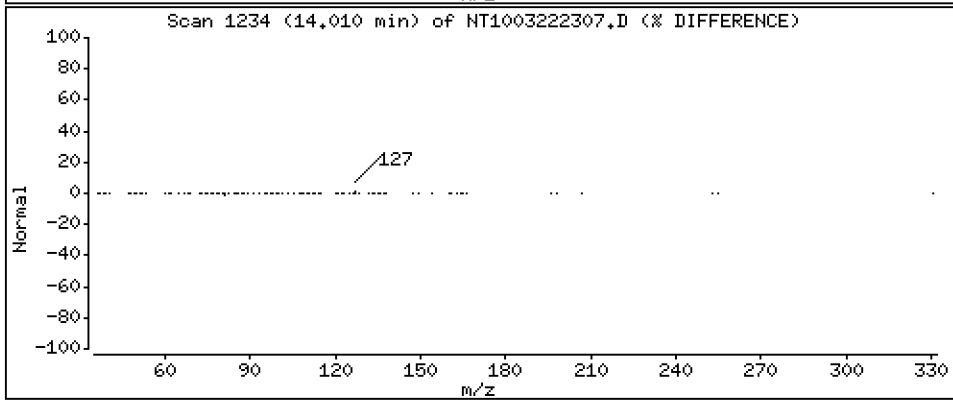
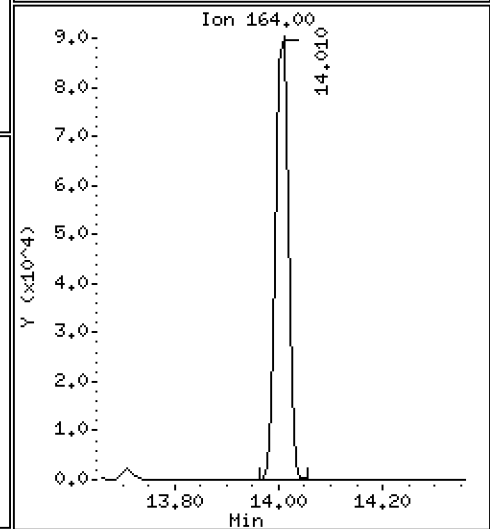
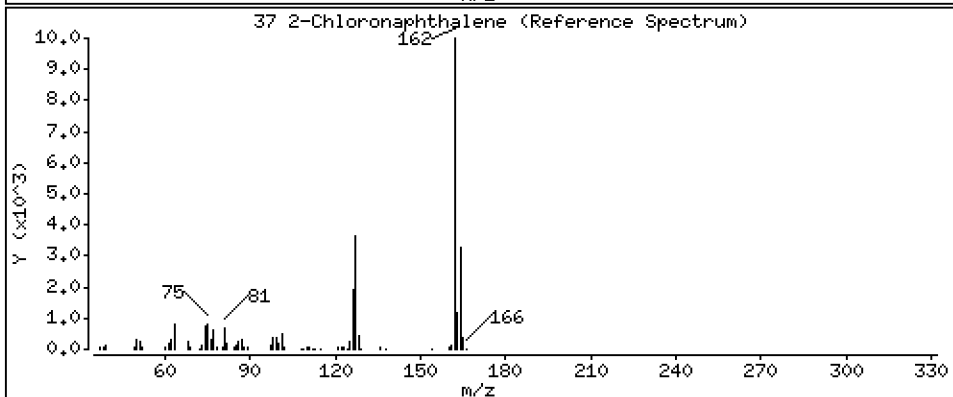
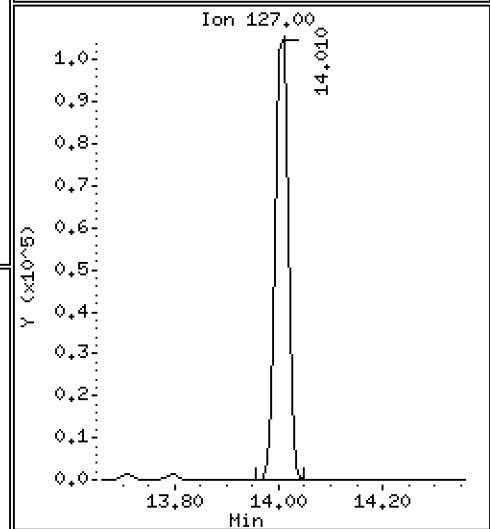
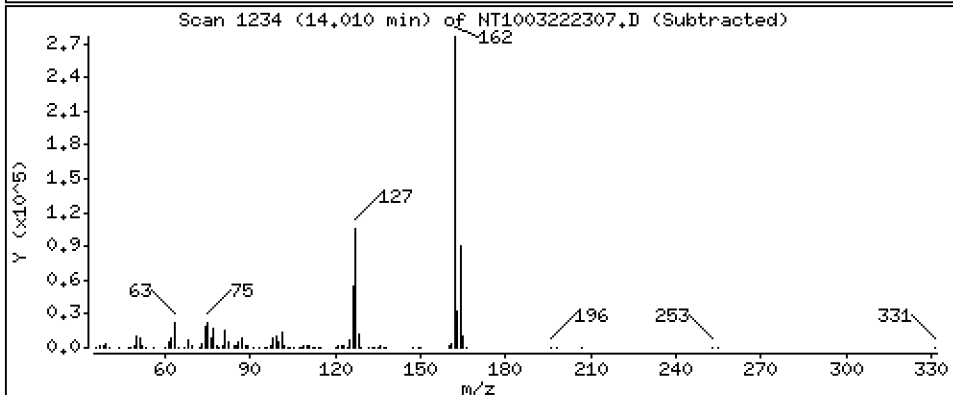
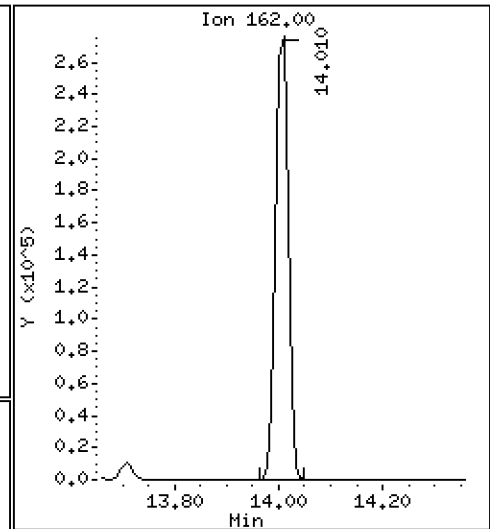
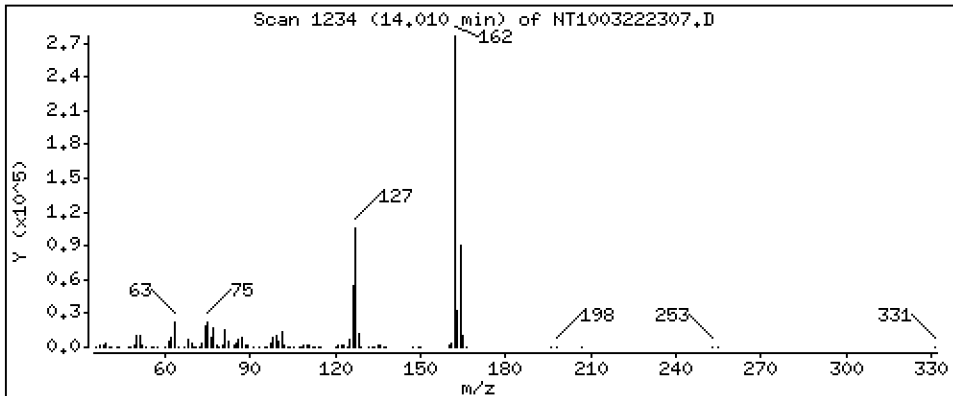
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,265 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

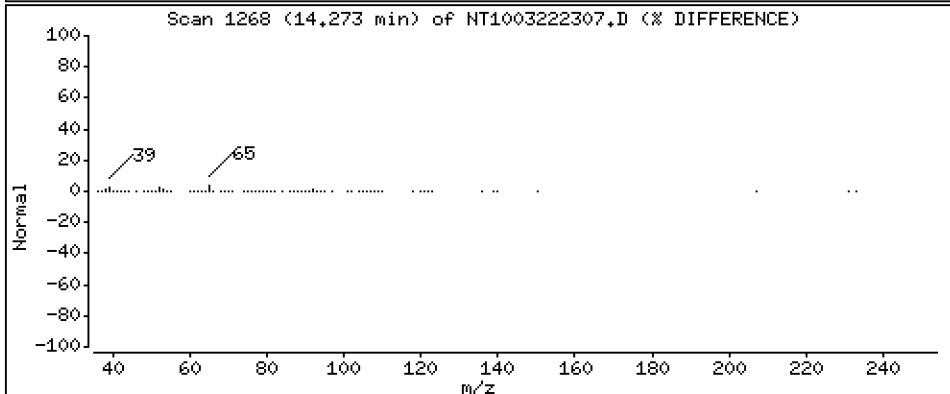
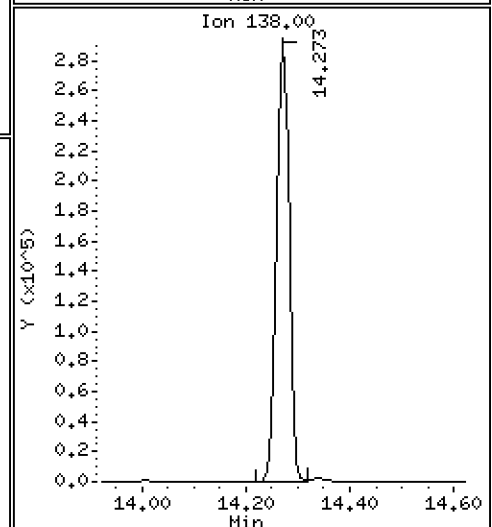
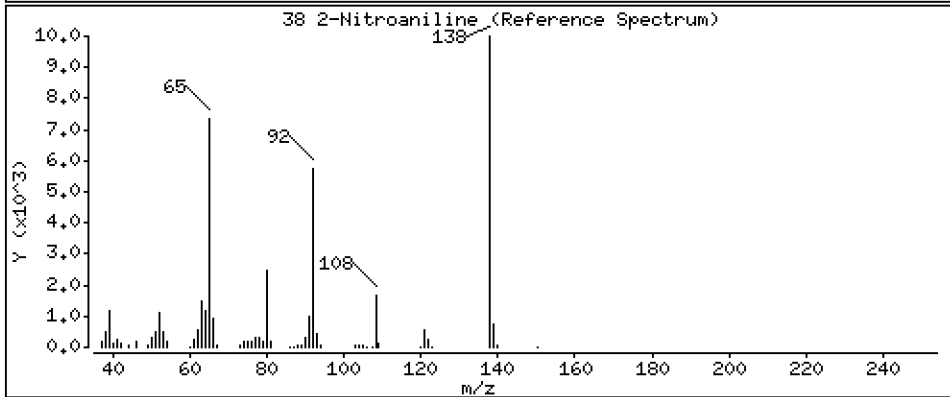
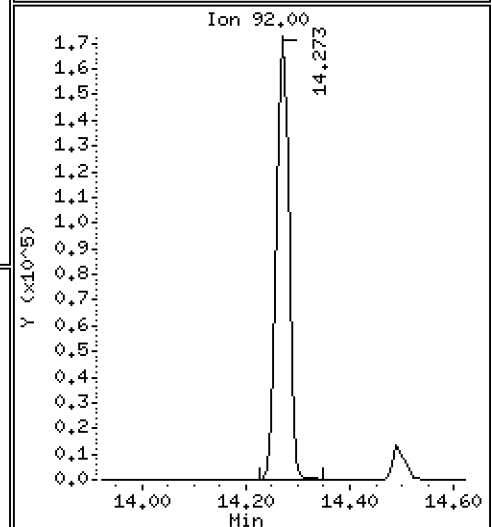
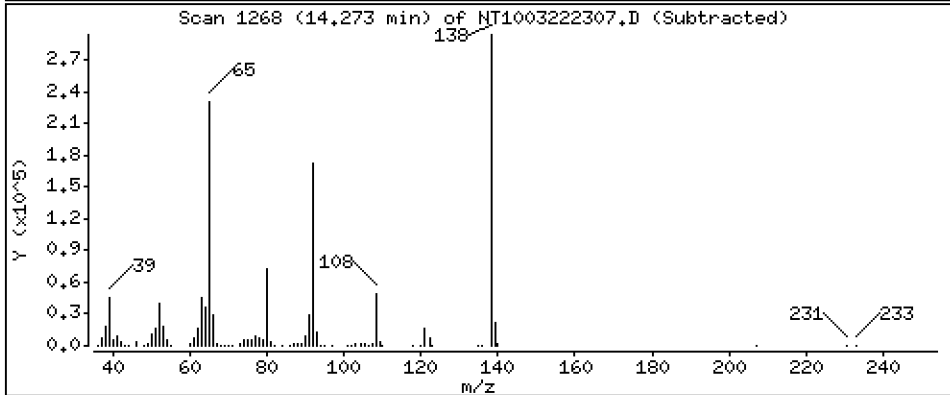
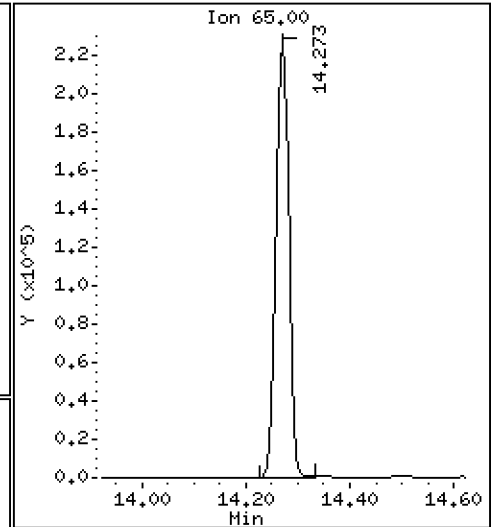
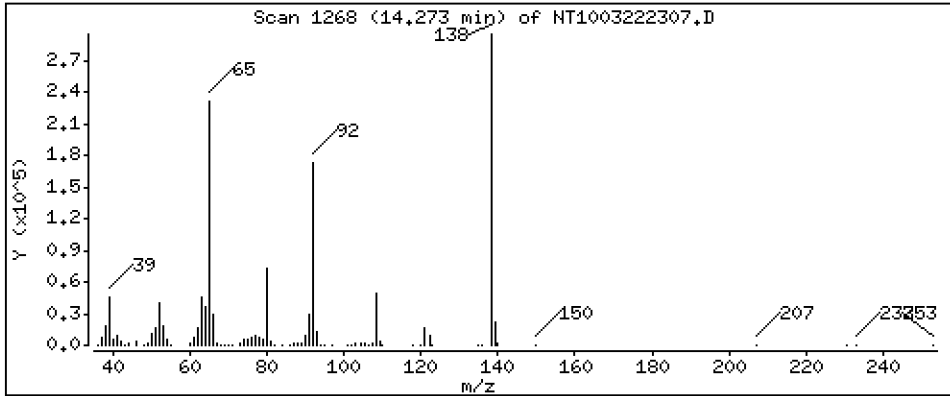
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 12,61 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

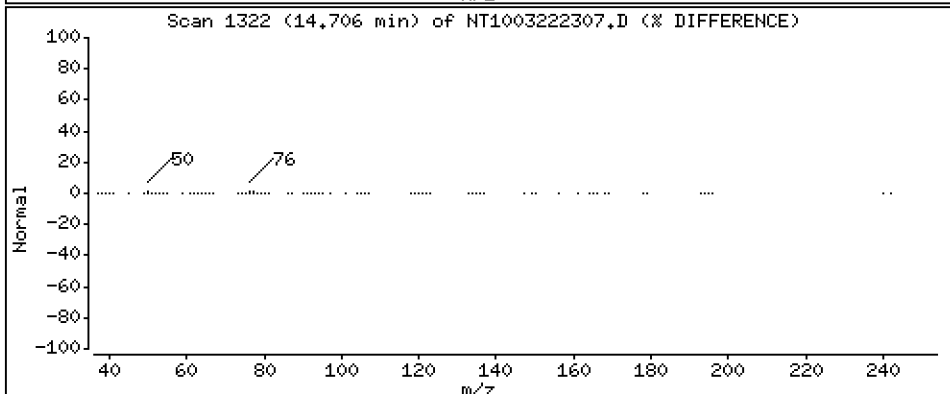
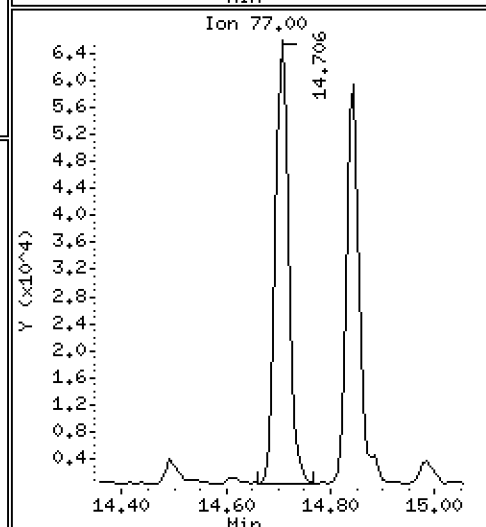
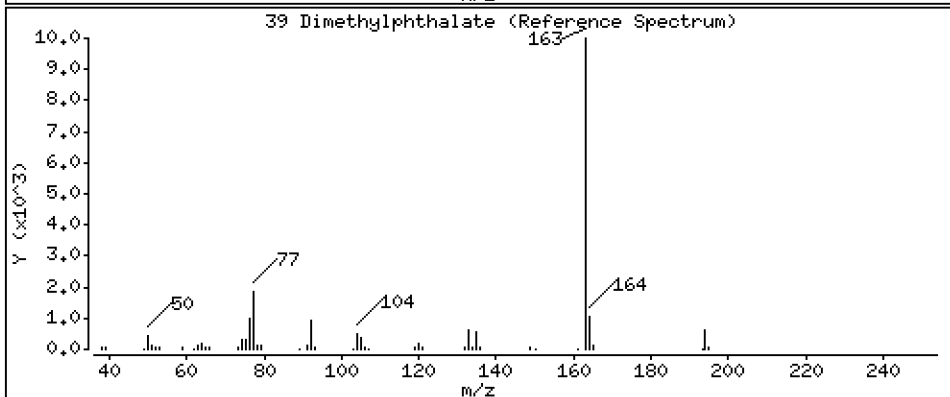
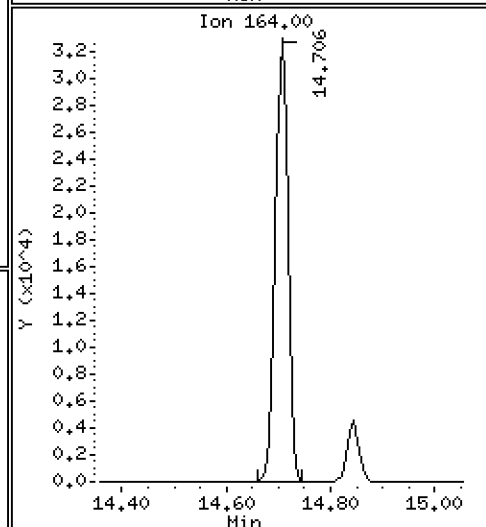
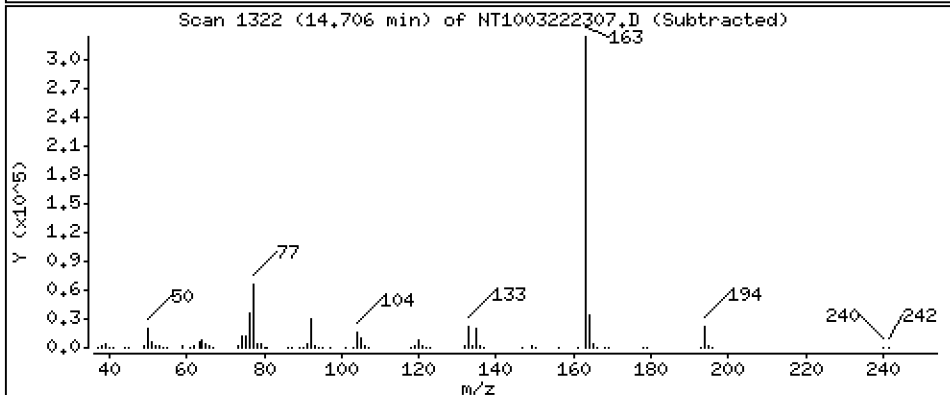
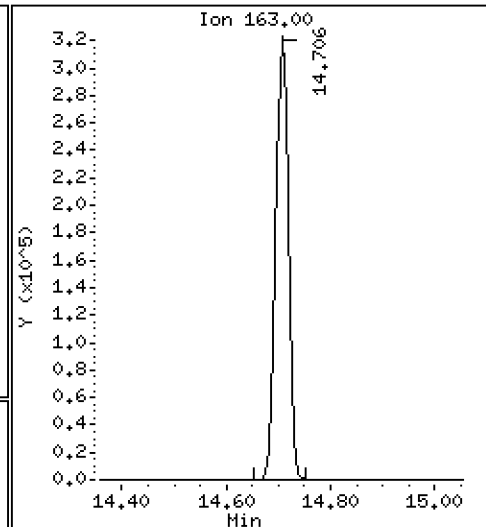
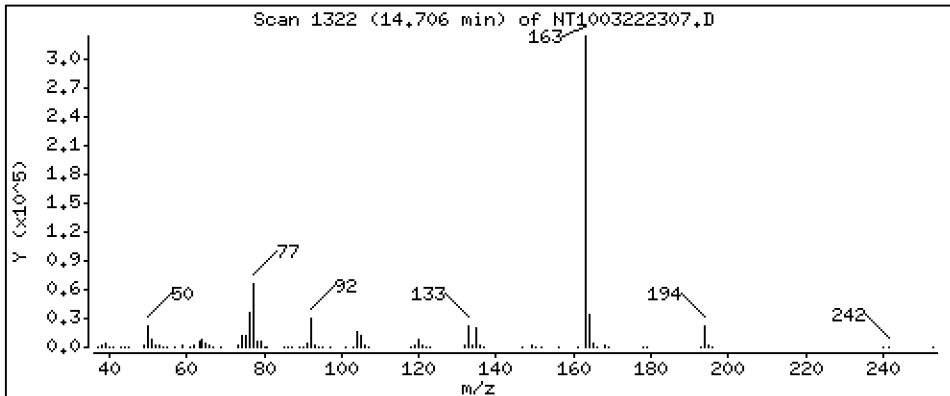
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,869 ug/mL





Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

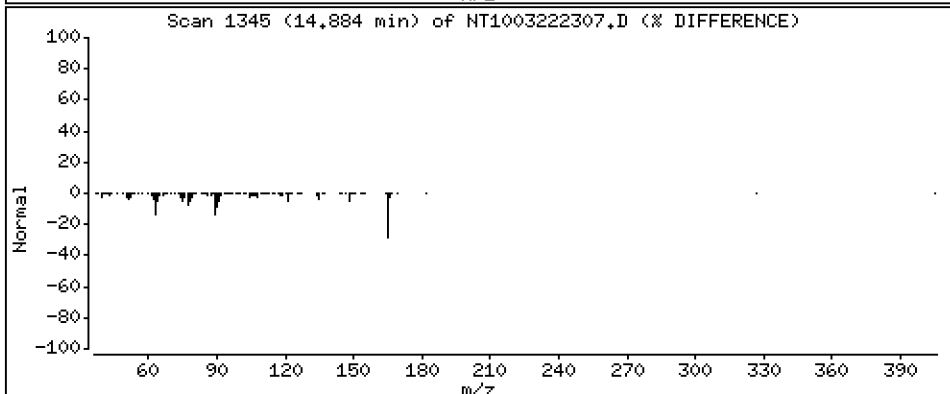
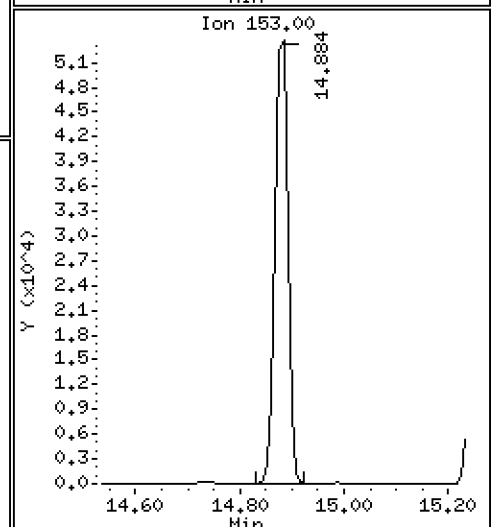
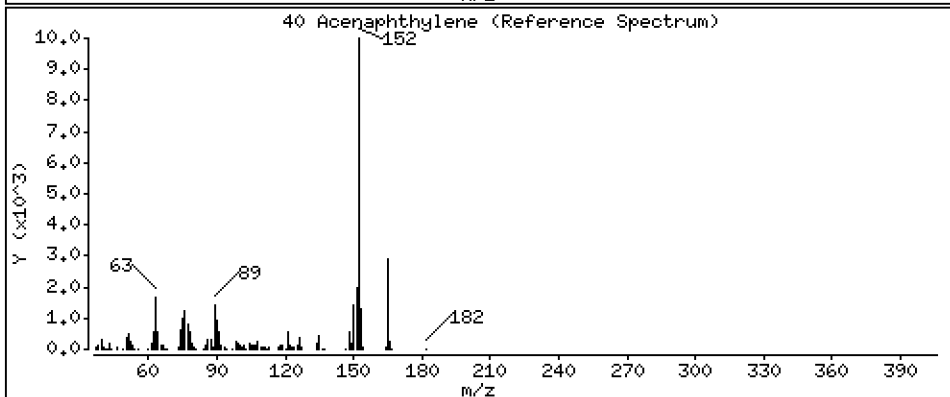
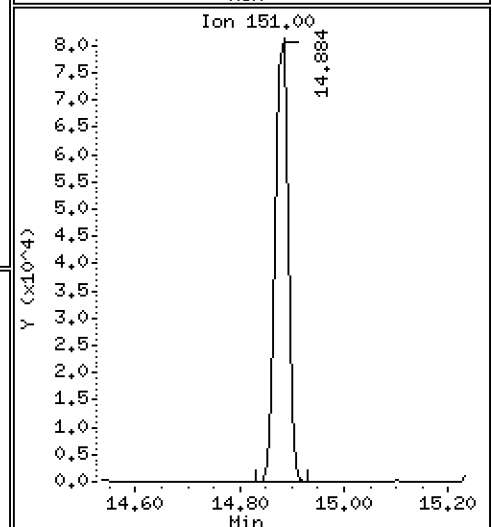
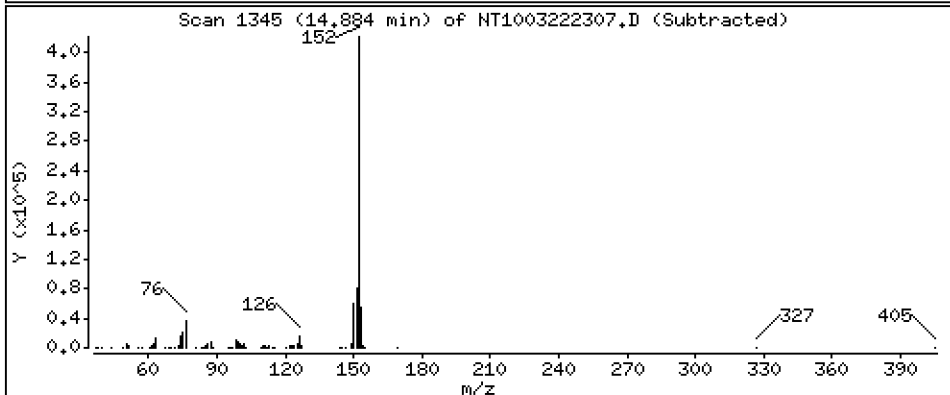
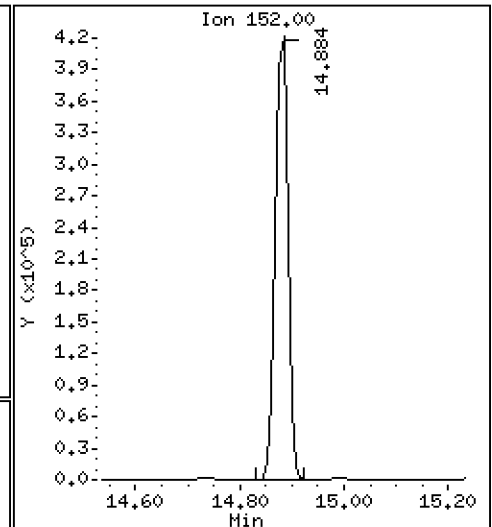
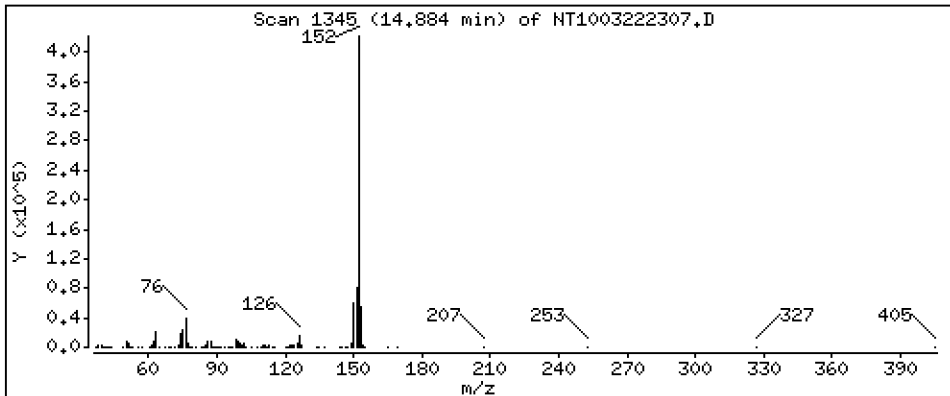
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,149 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

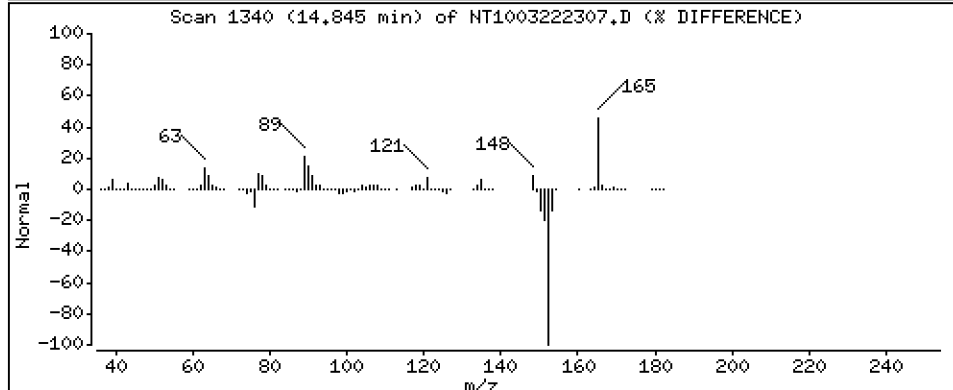
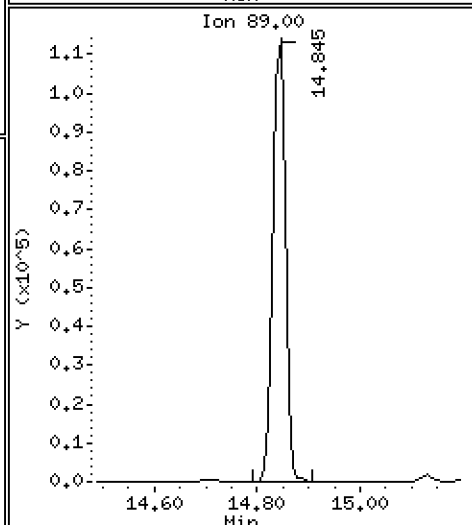
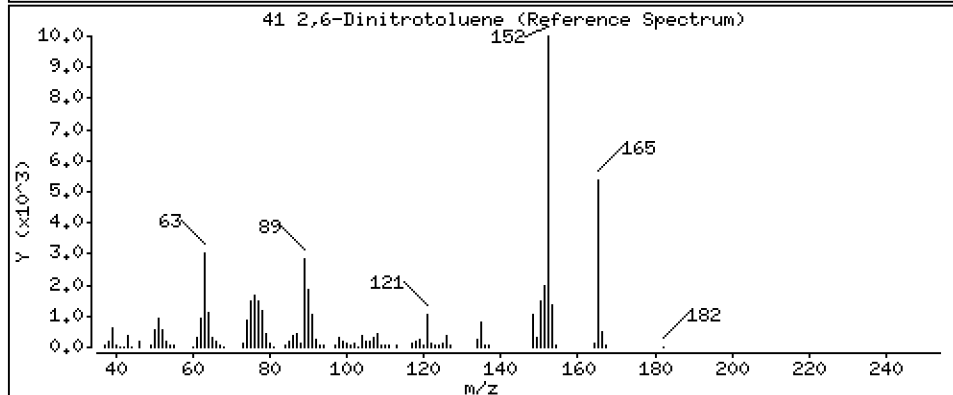
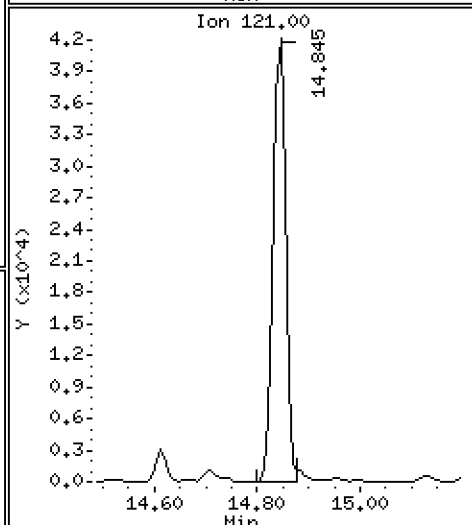
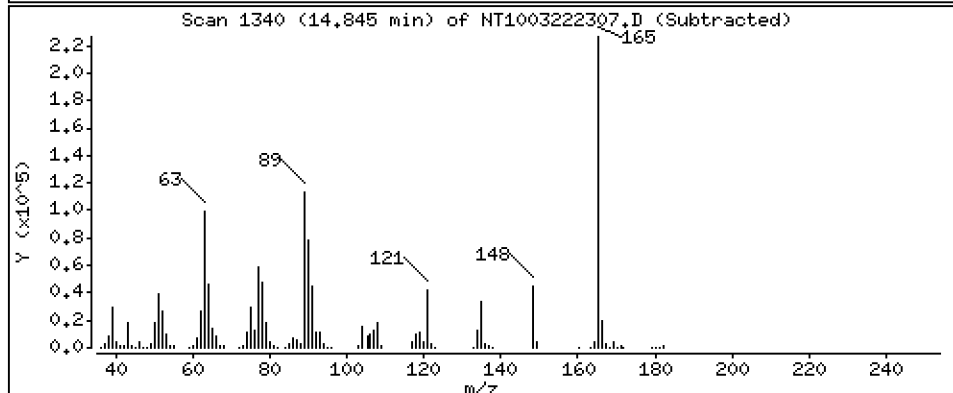
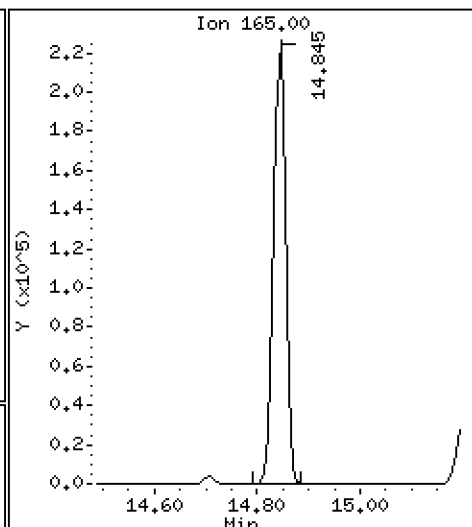
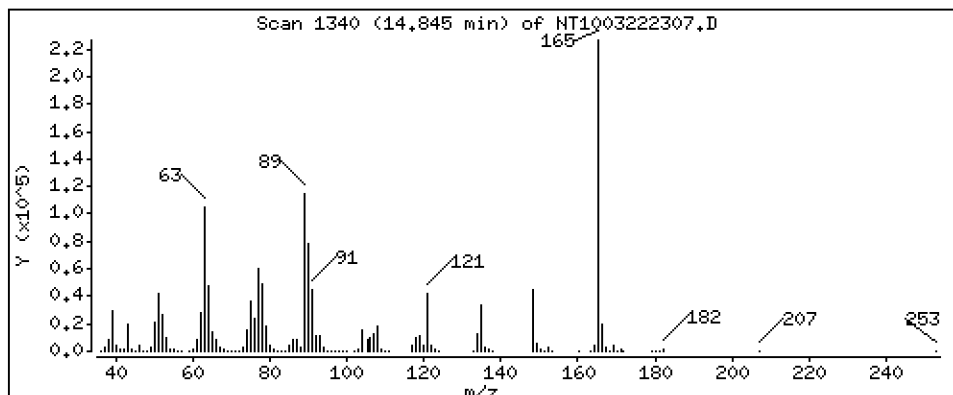
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 14,98 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

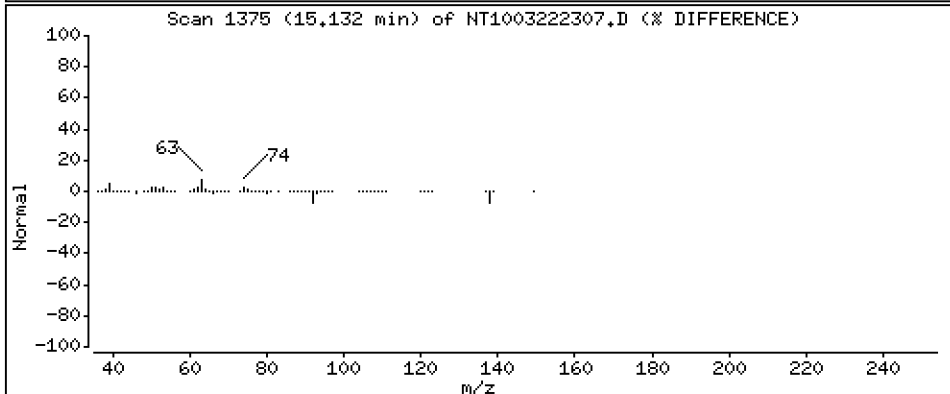
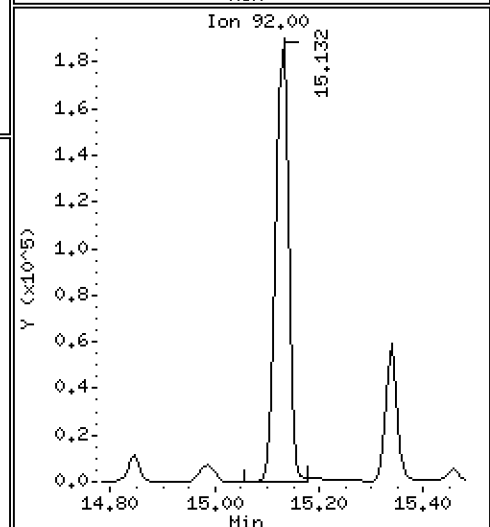
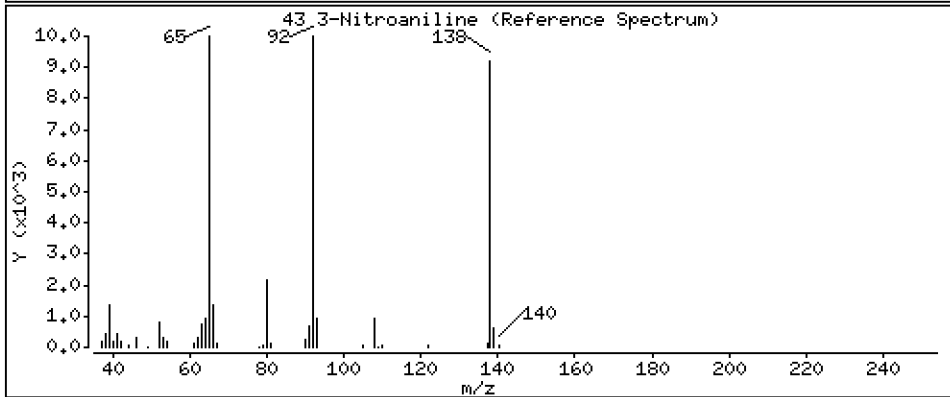
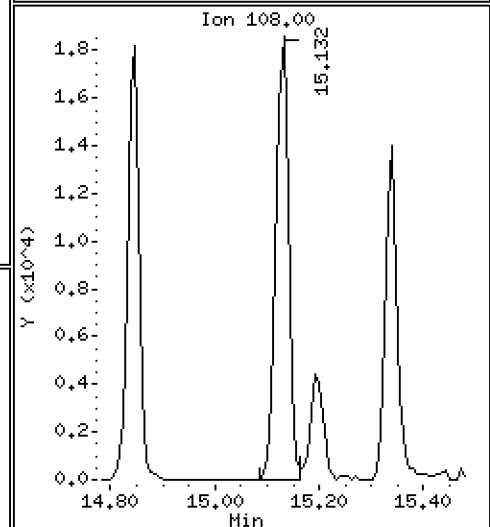
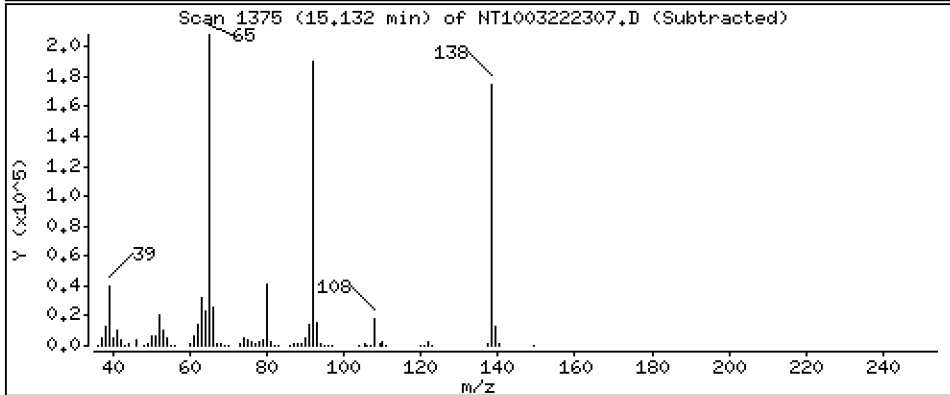
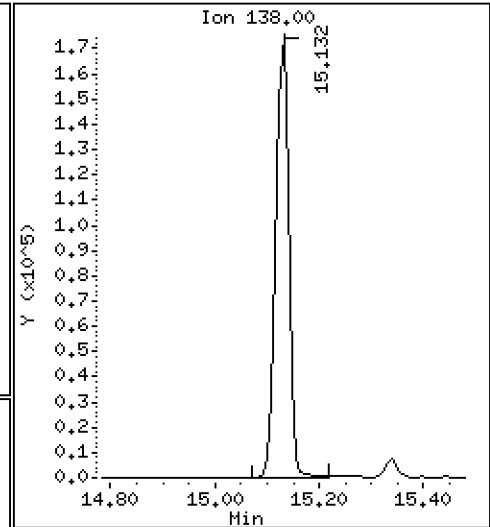
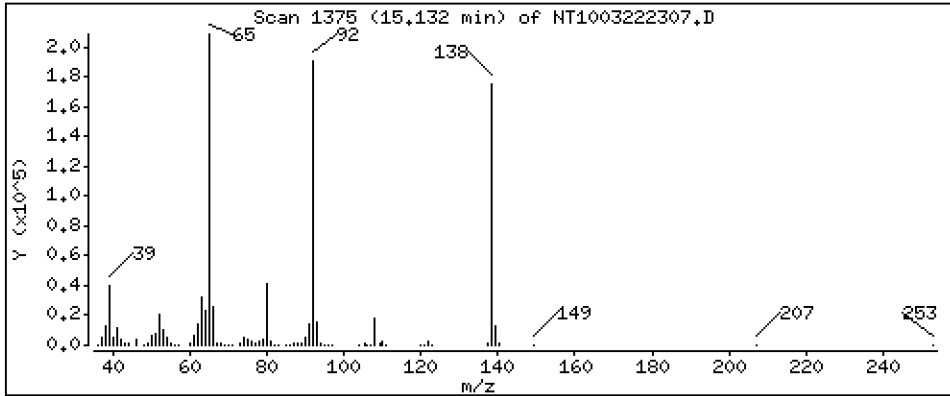
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 11,19 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

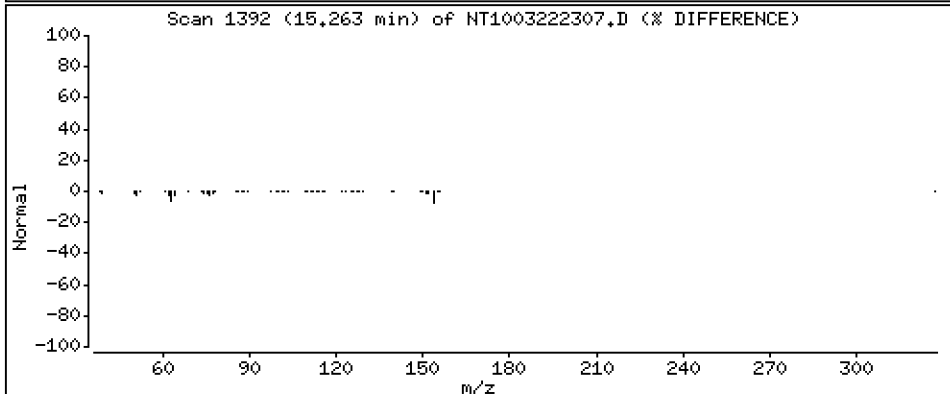
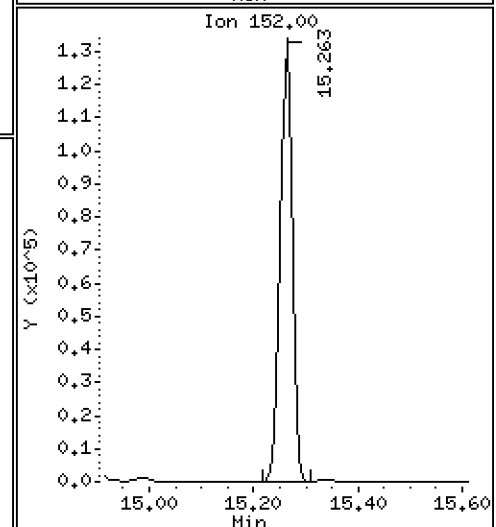
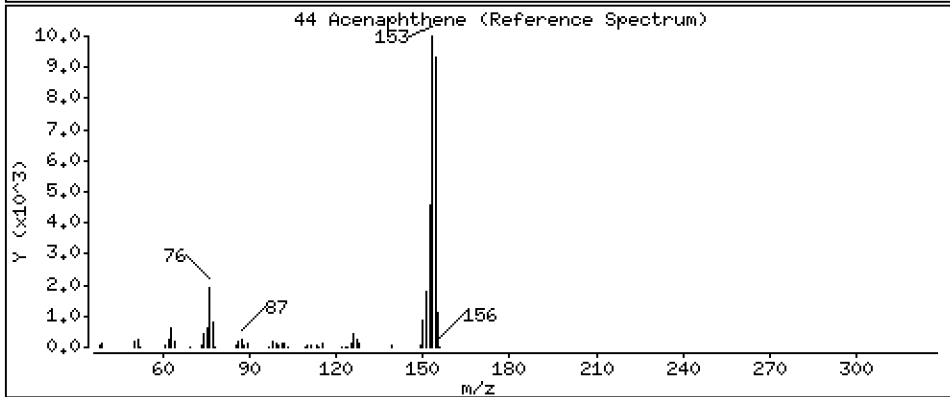
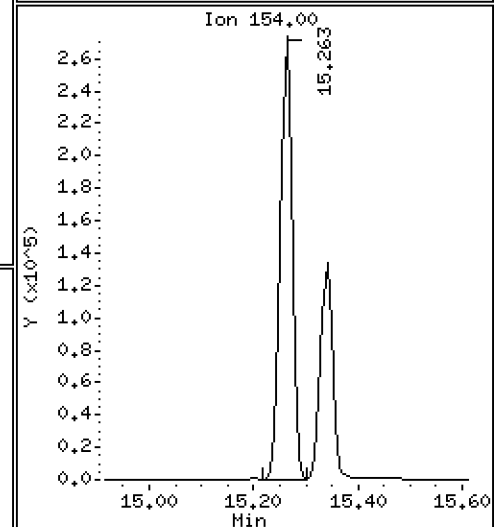
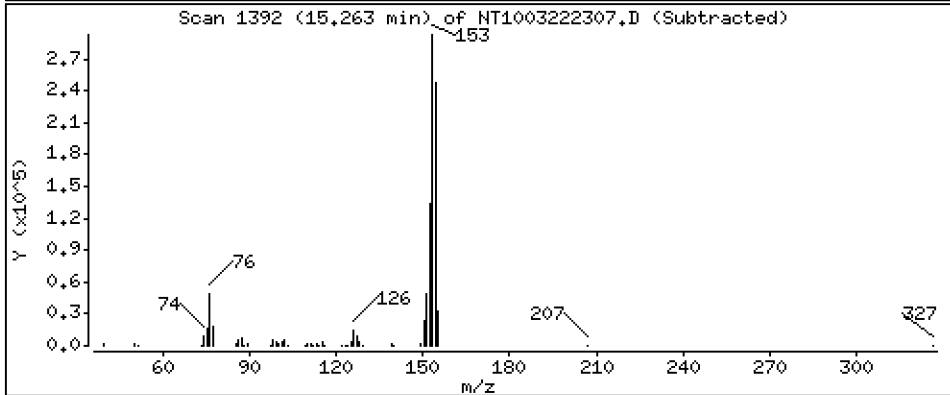
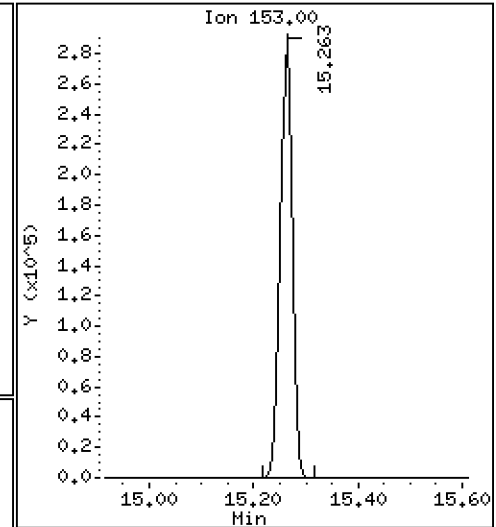
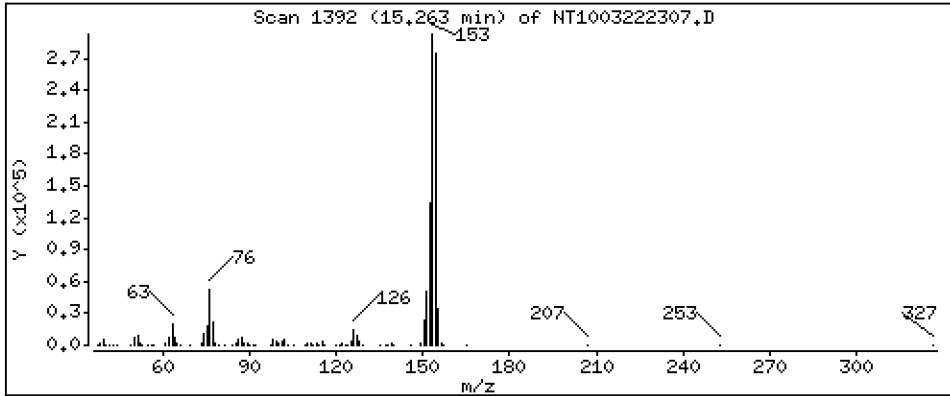
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,313 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

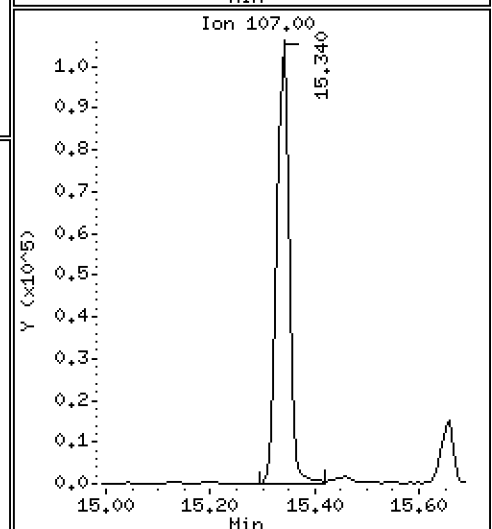
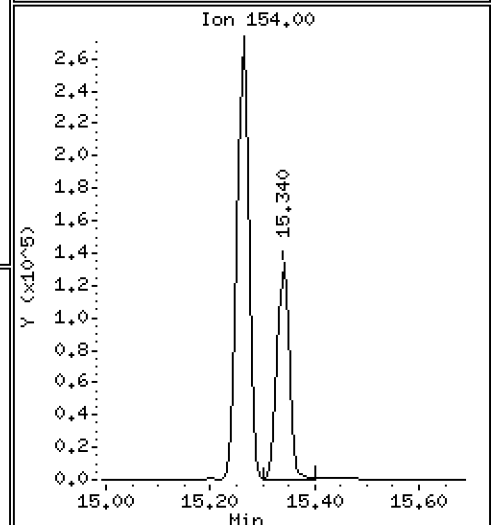
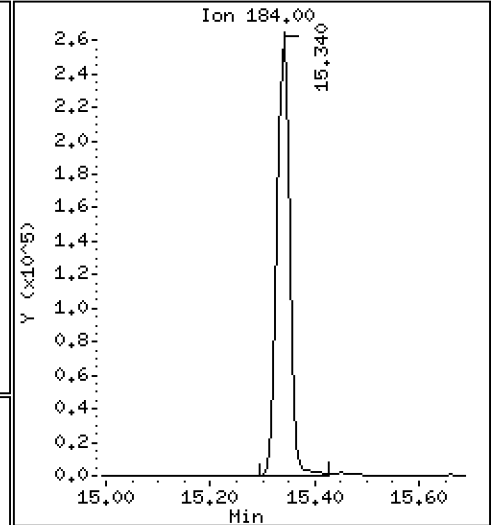
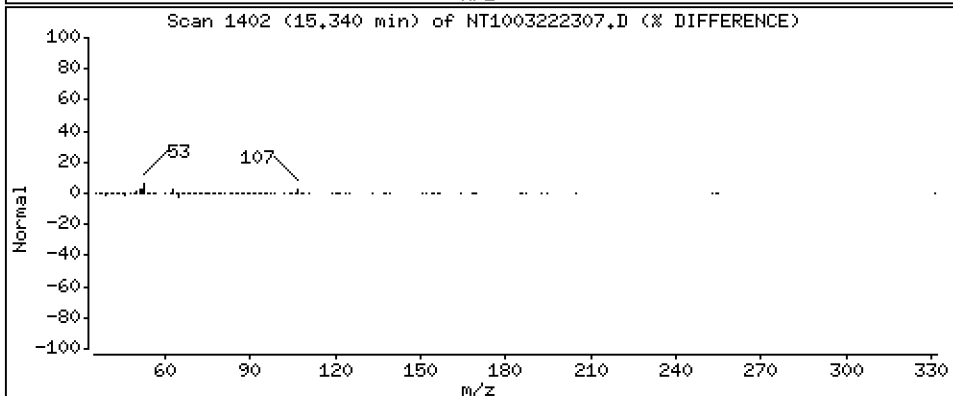
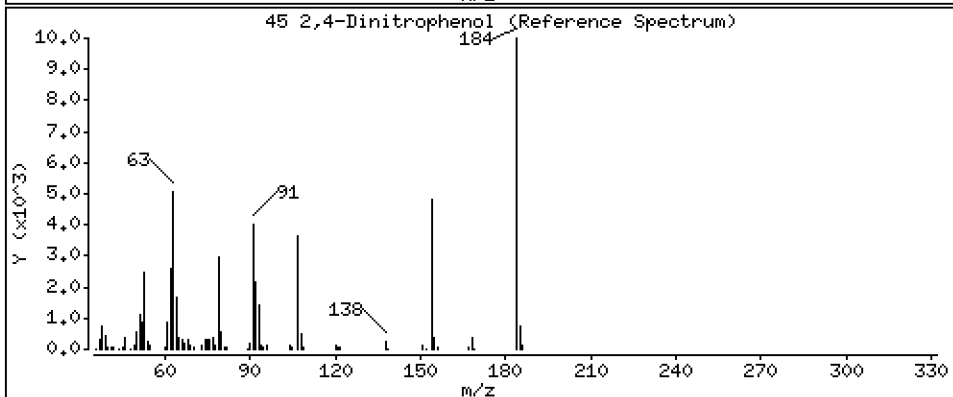
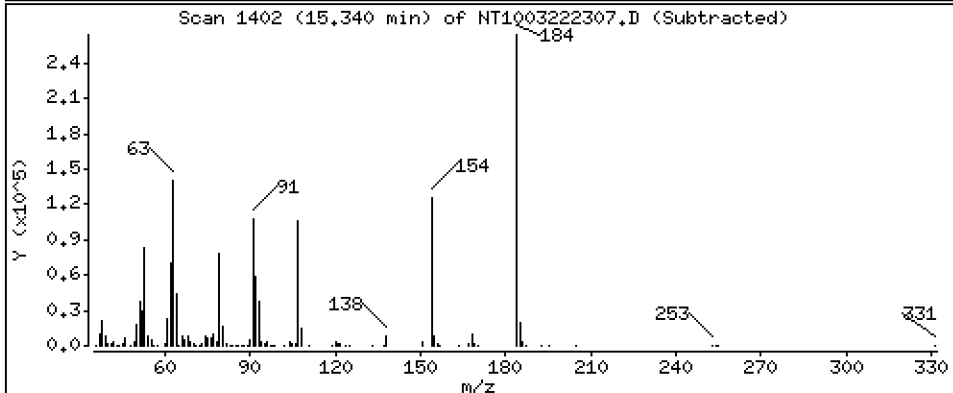
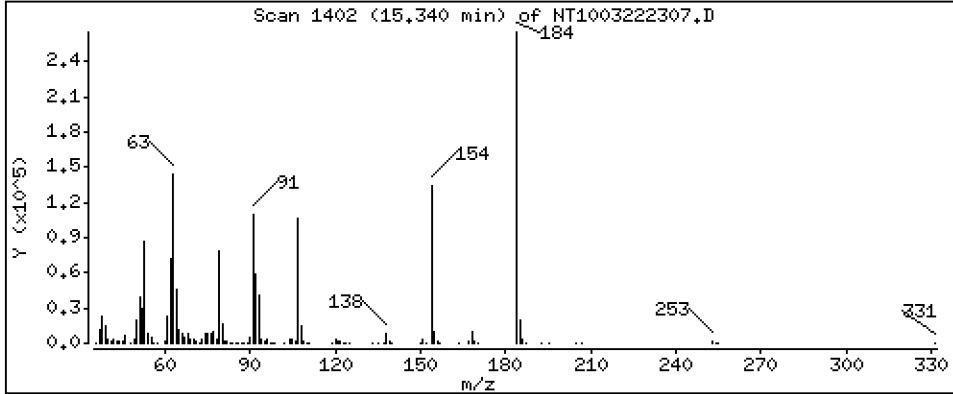
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 28,79 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

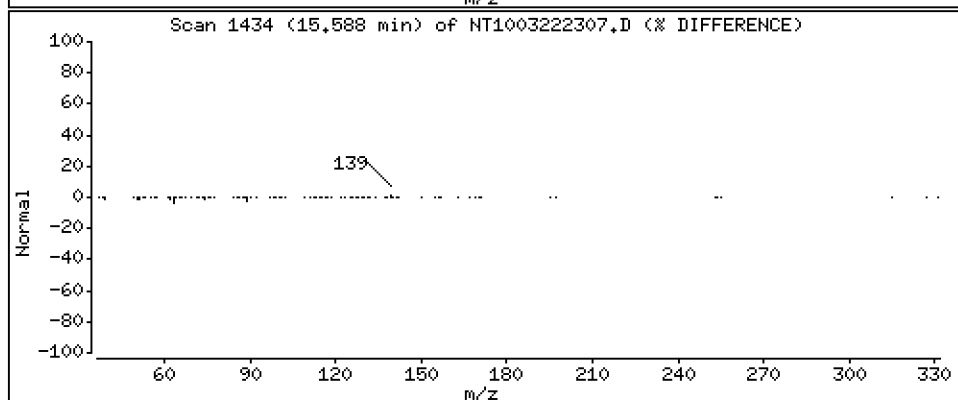
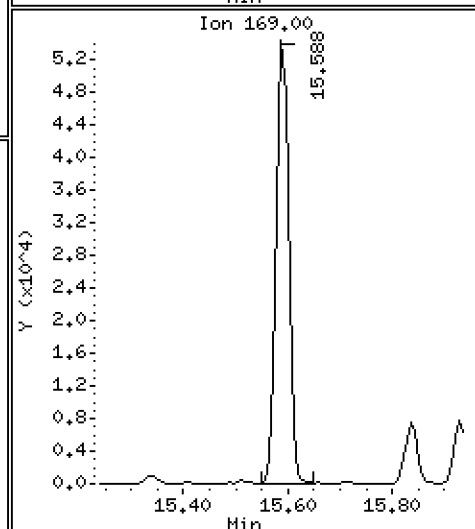
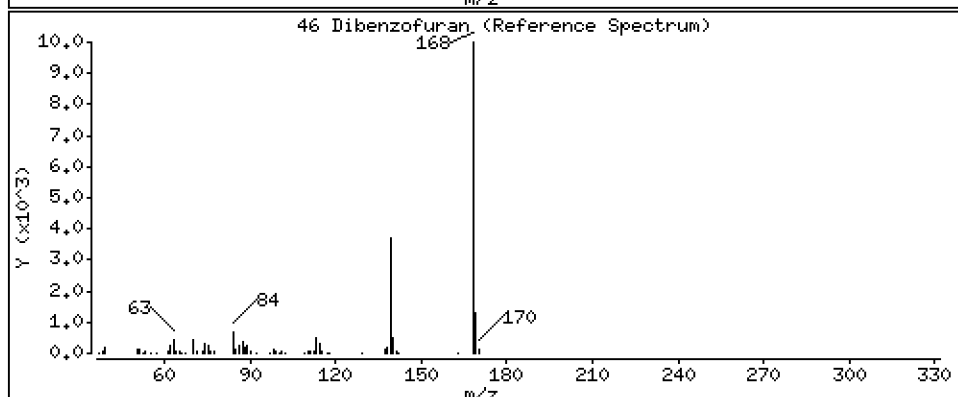
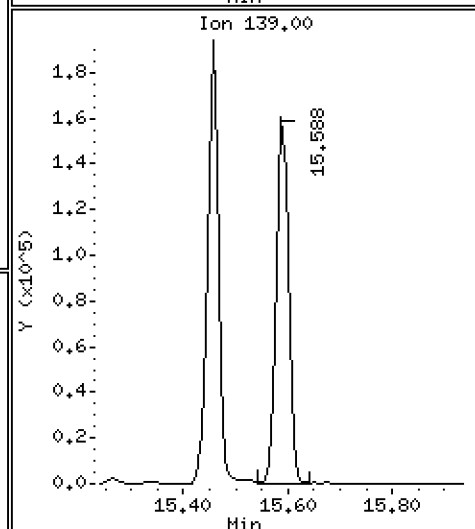
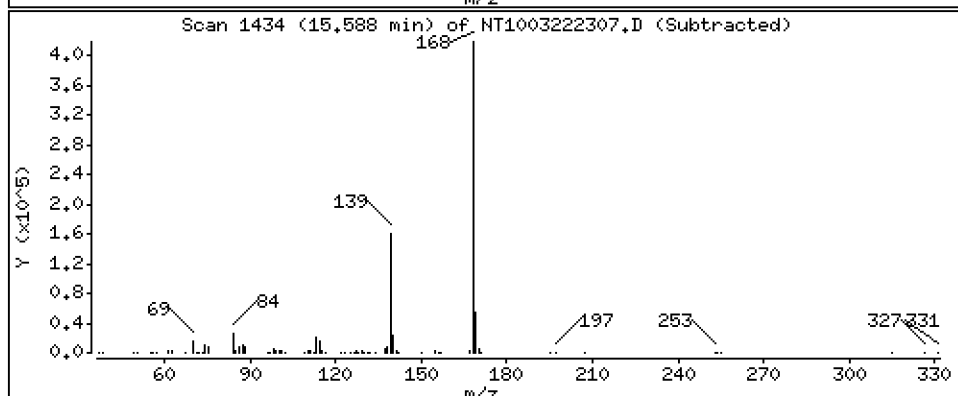
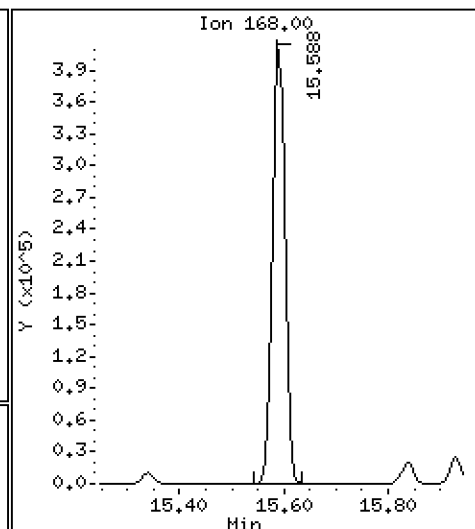
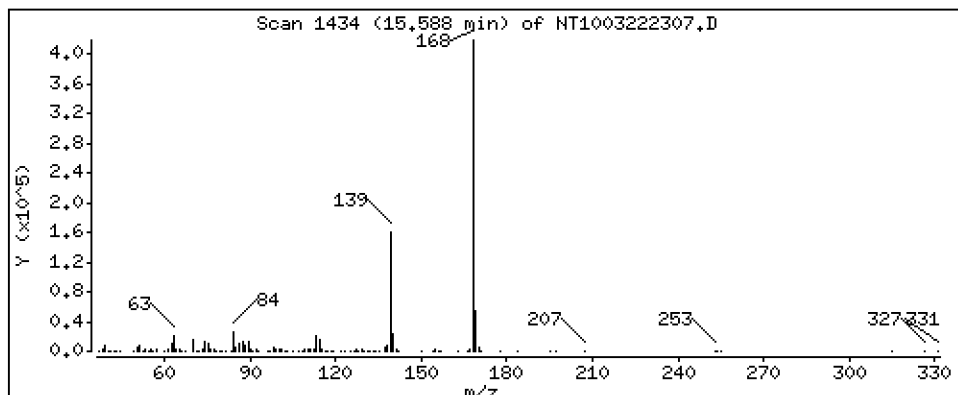
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,368 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

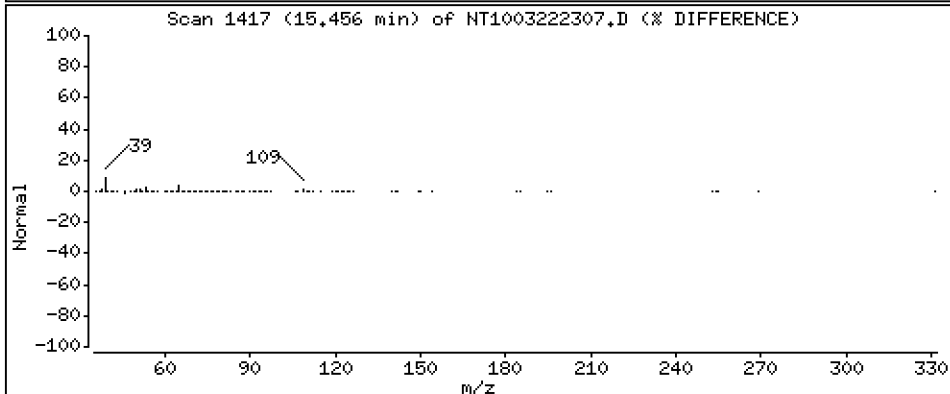
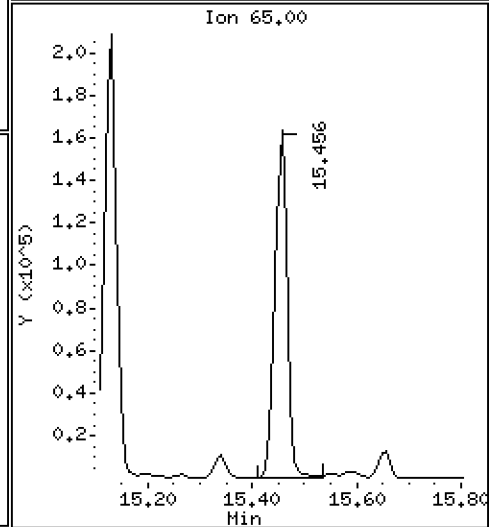
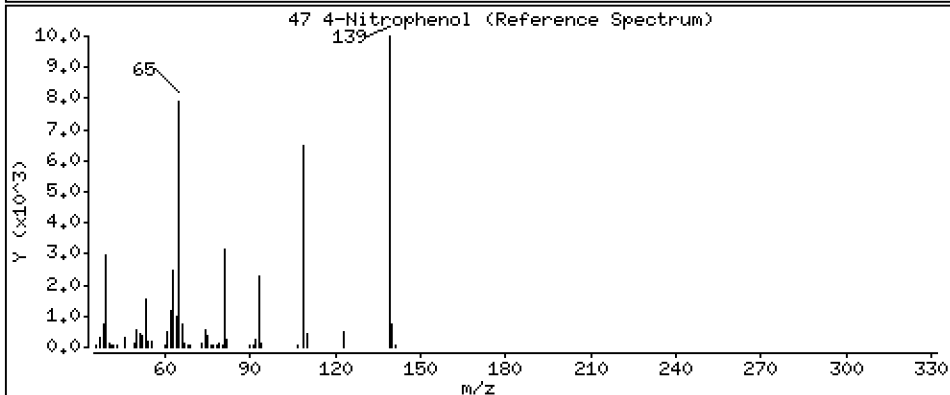
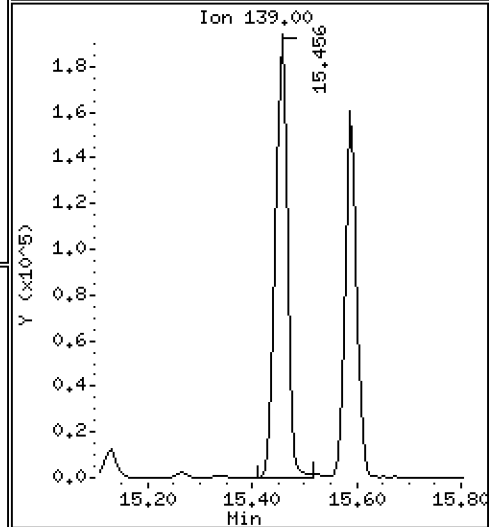
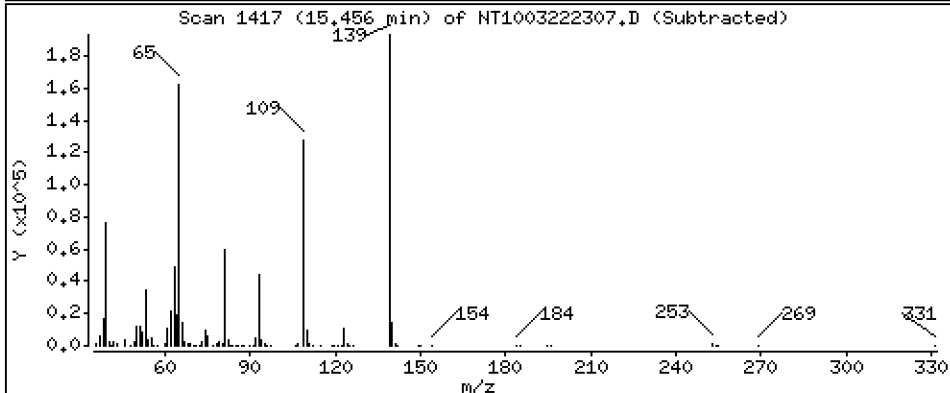
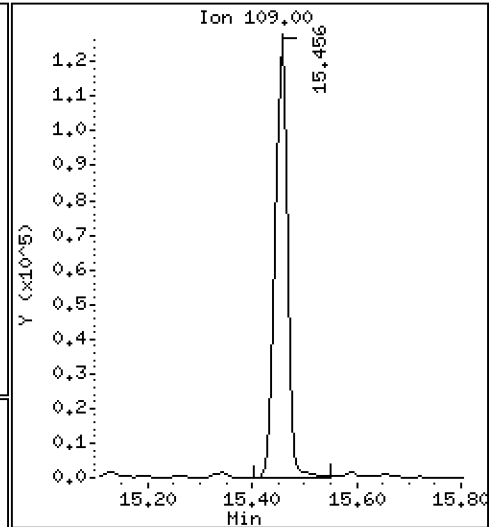
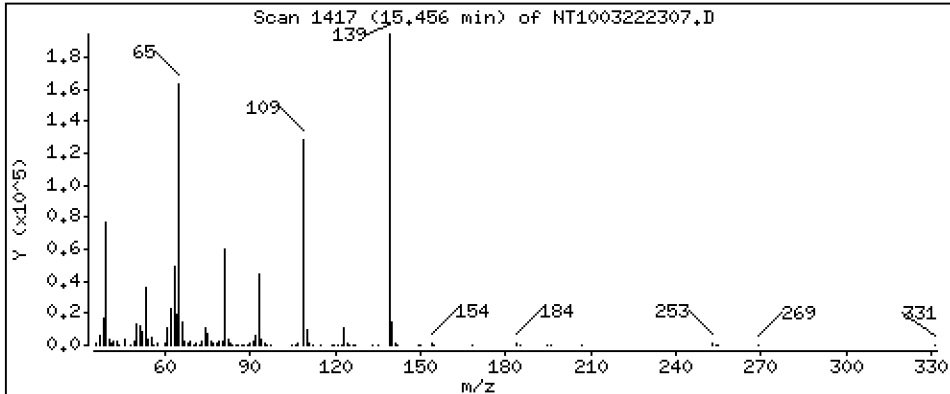
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 12,14 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

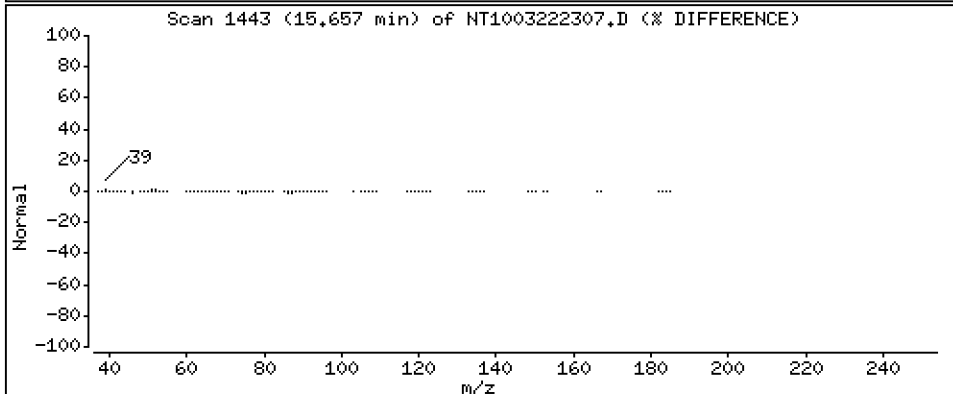
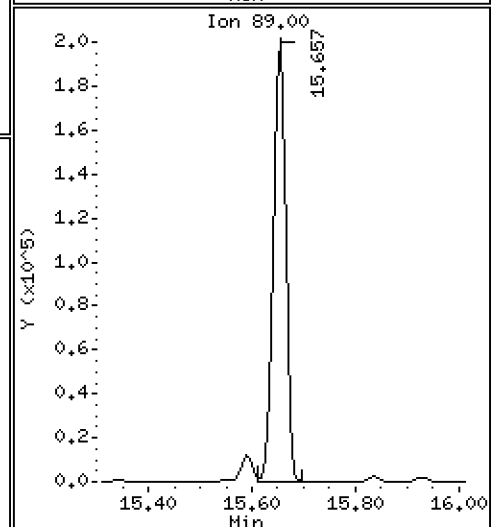
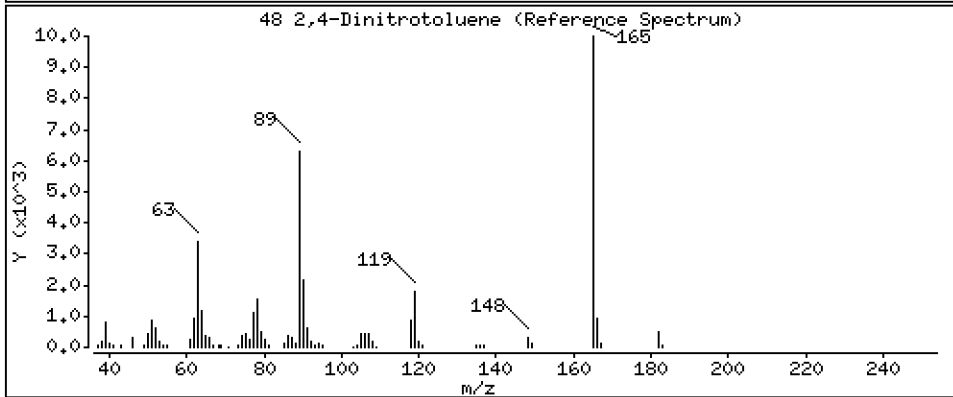
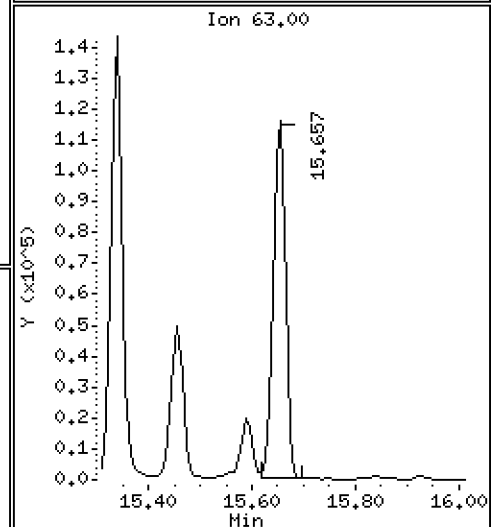
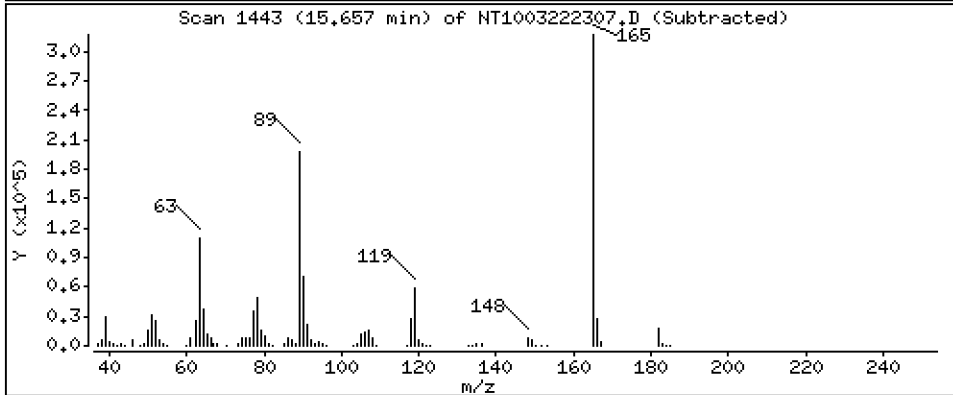
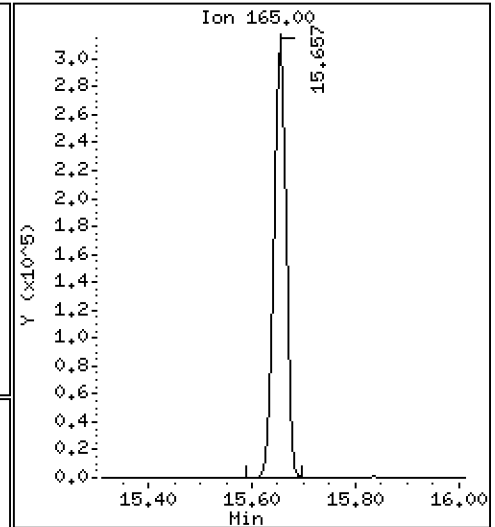
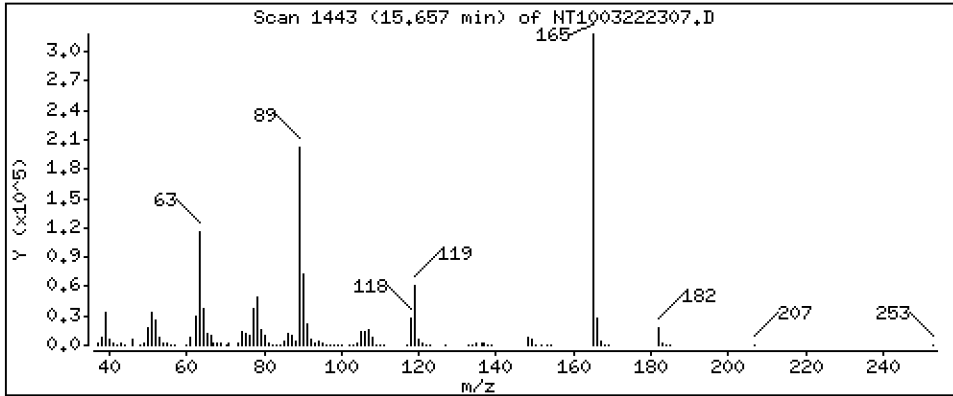
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 14,19 ug/mL





Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

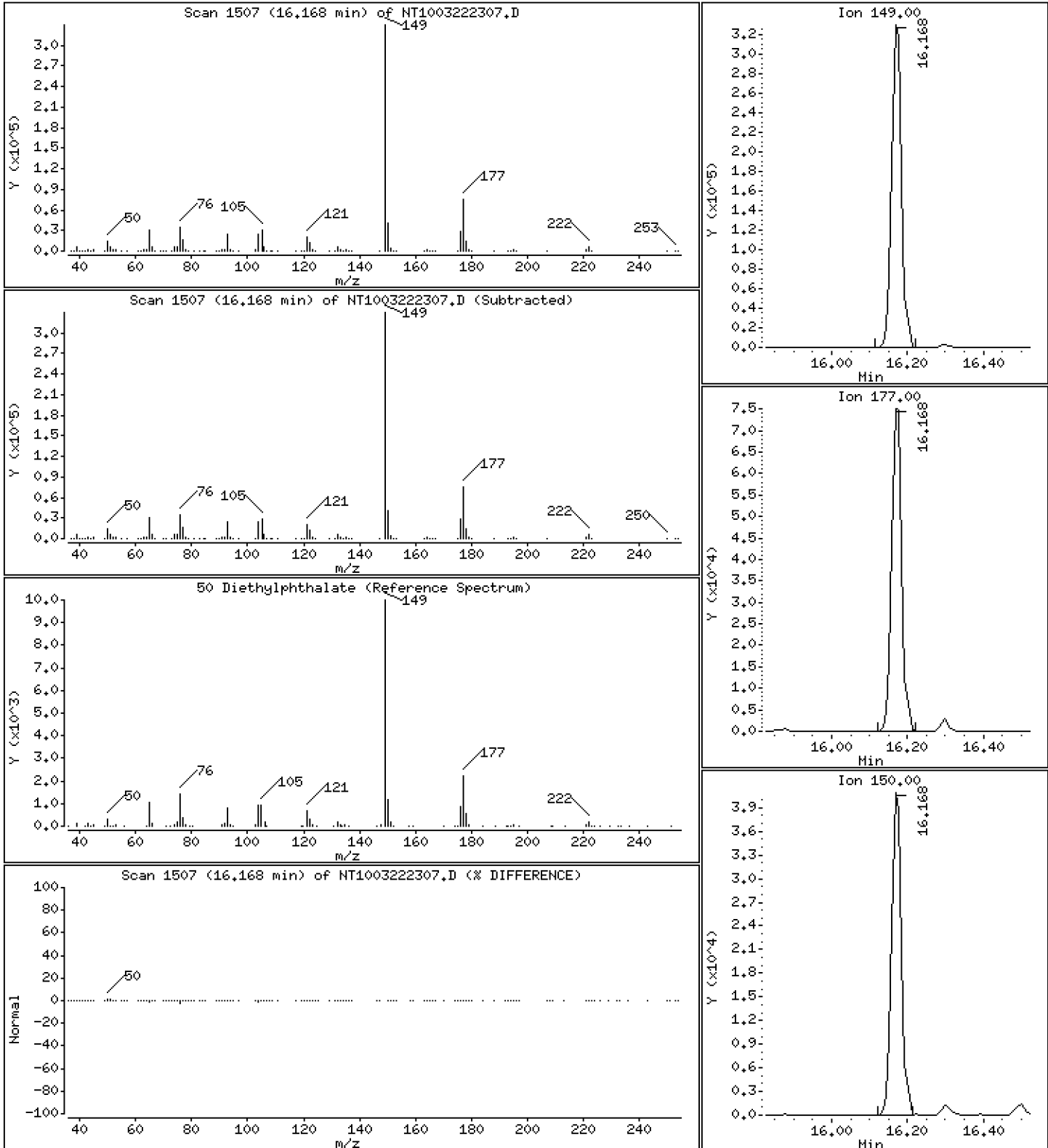
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 6,000 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

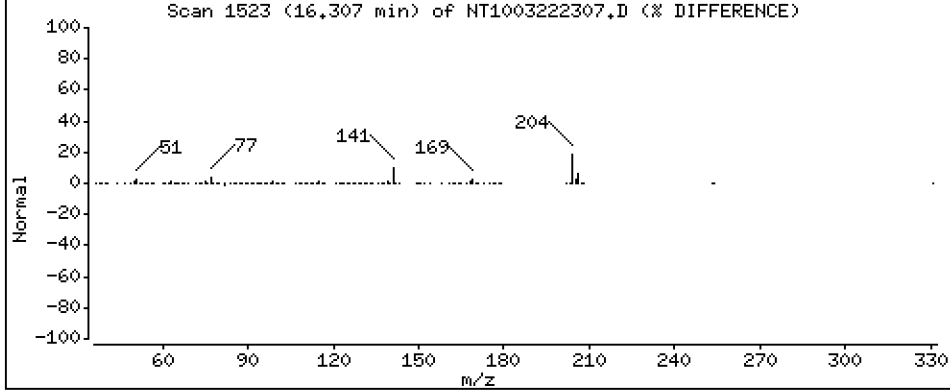
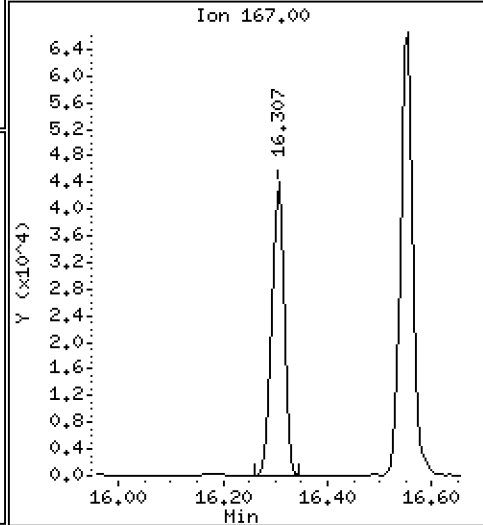
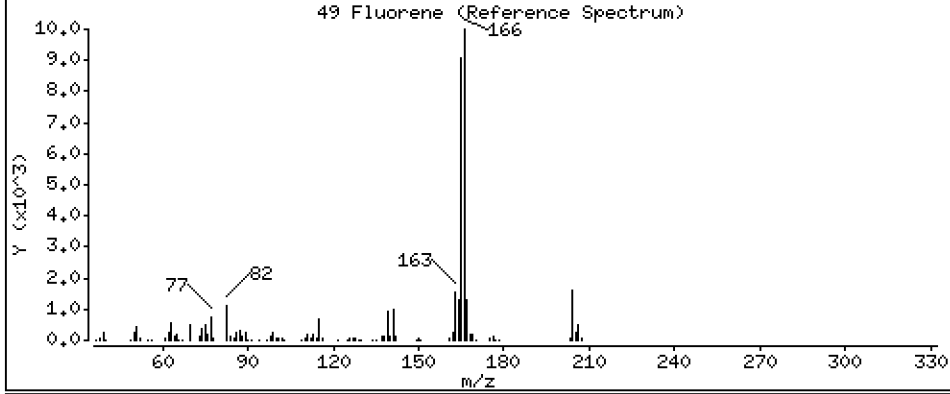
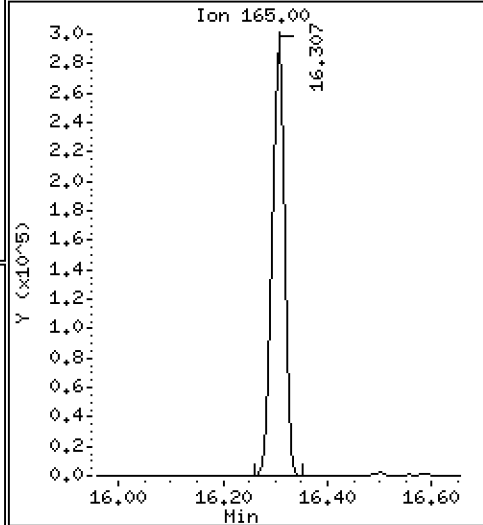
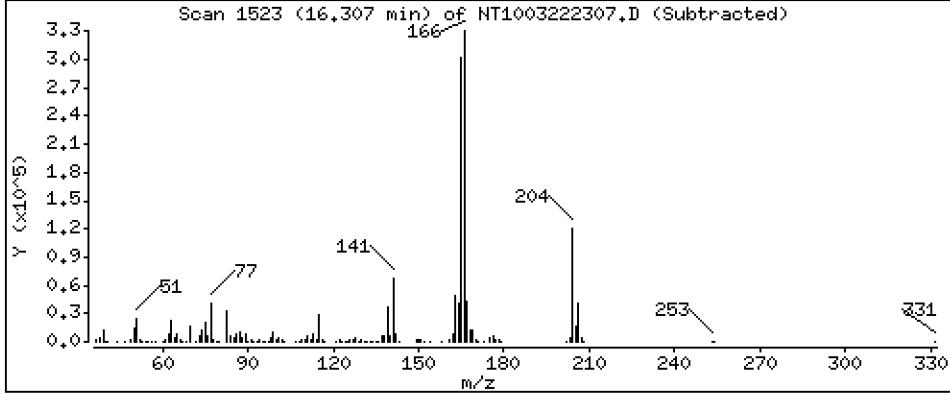
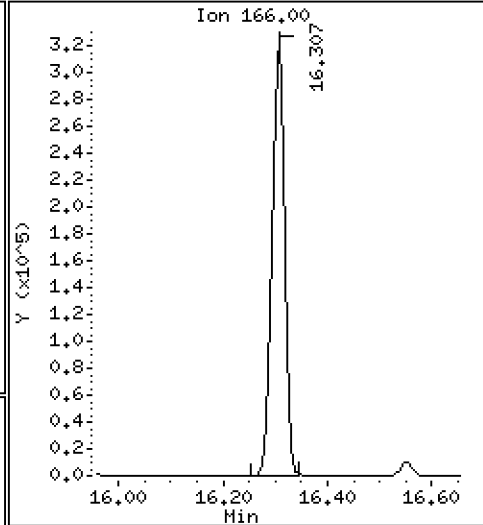
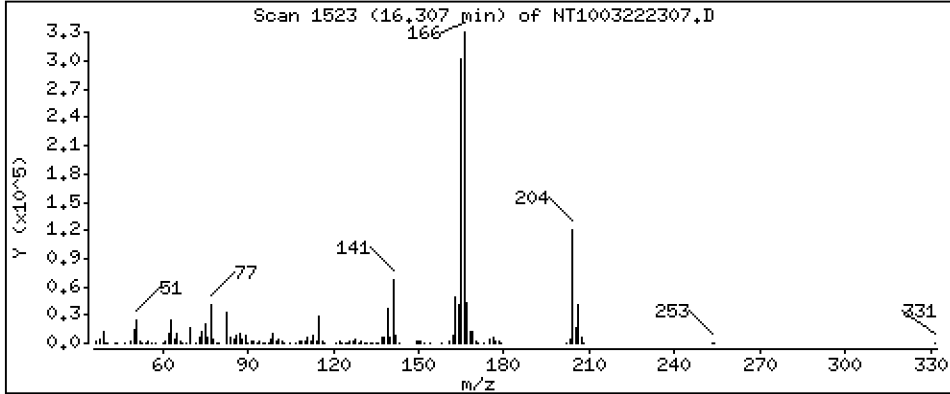
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,468 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

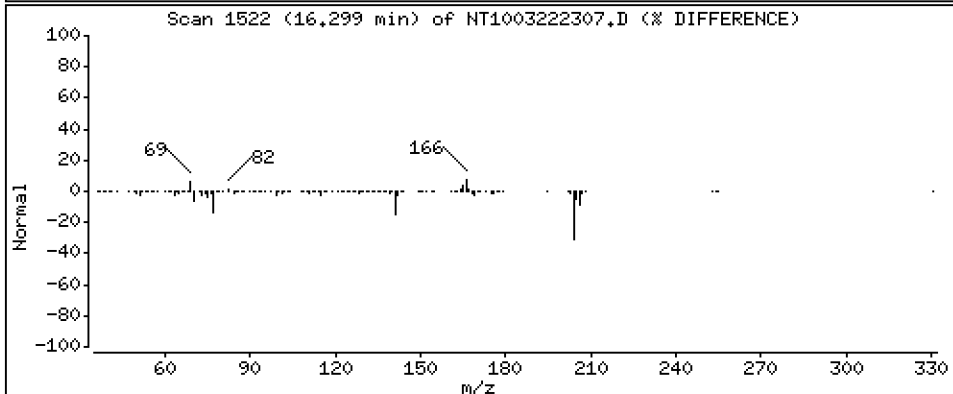
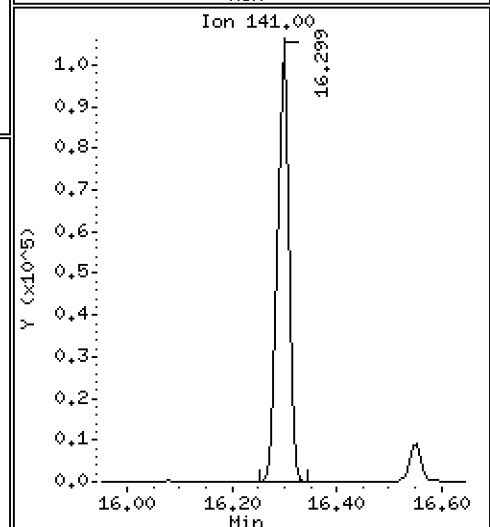
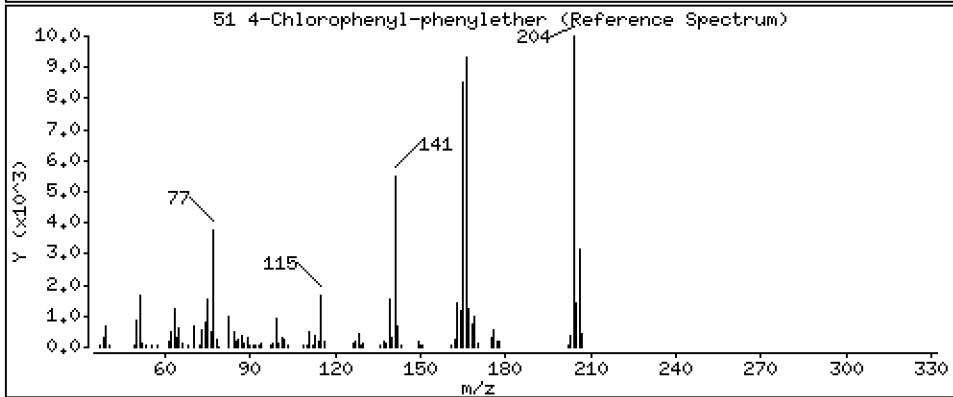
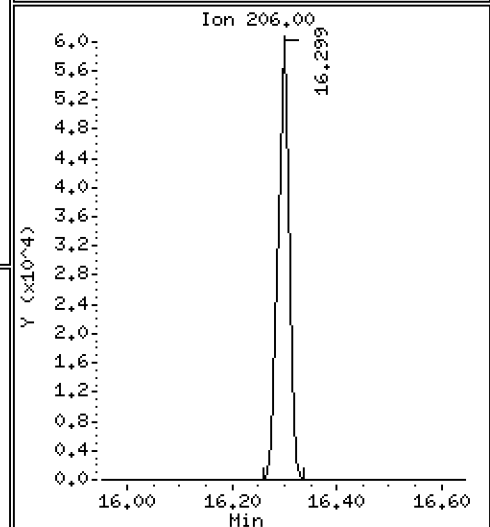
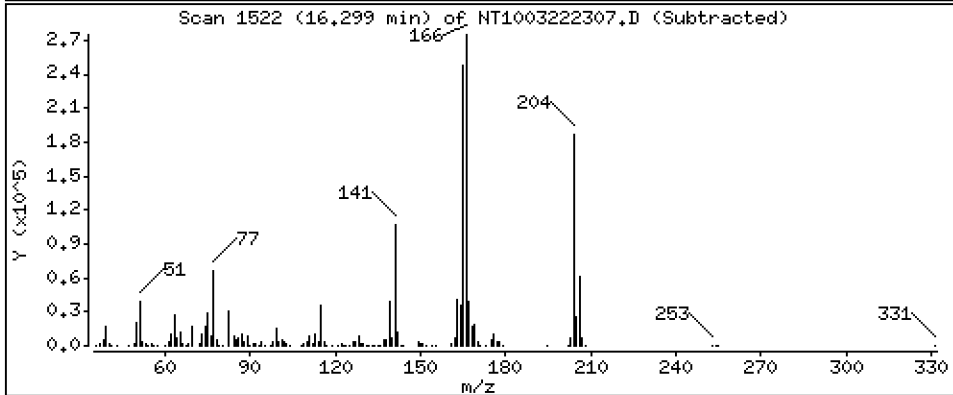
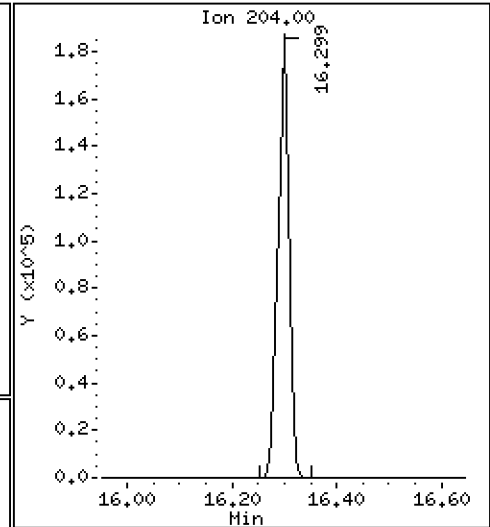
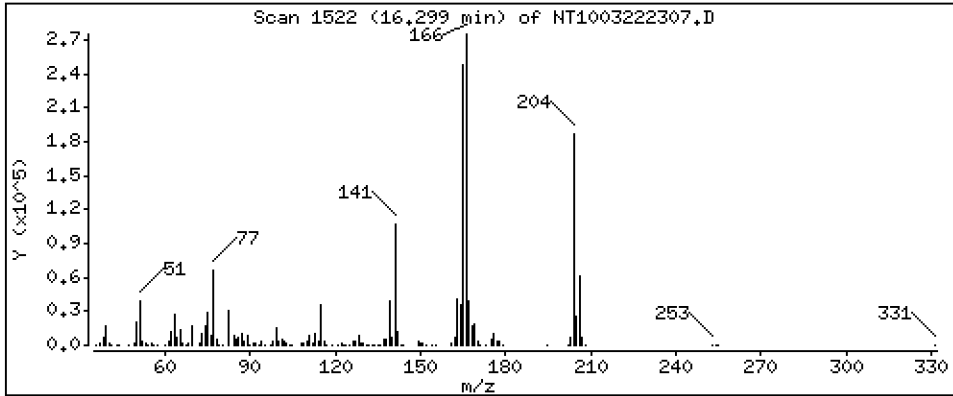
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,783 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

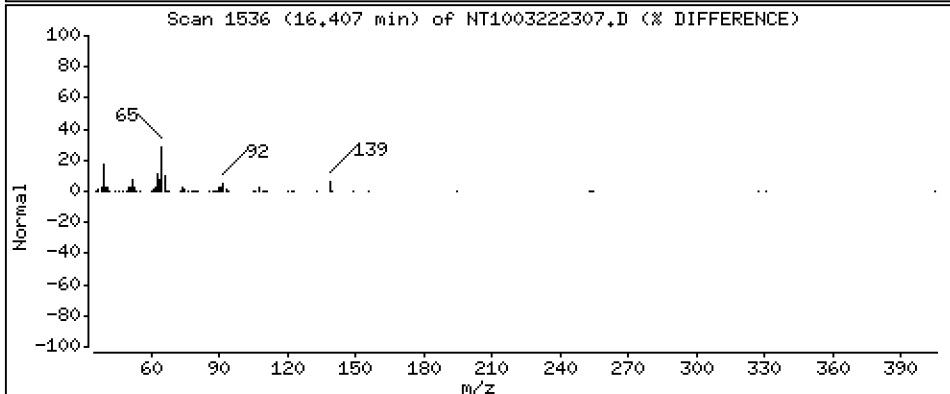
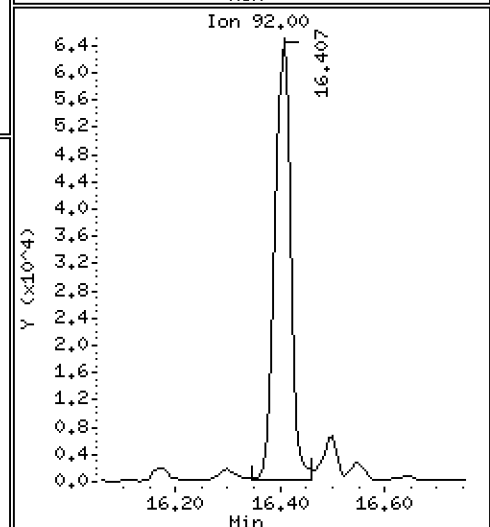
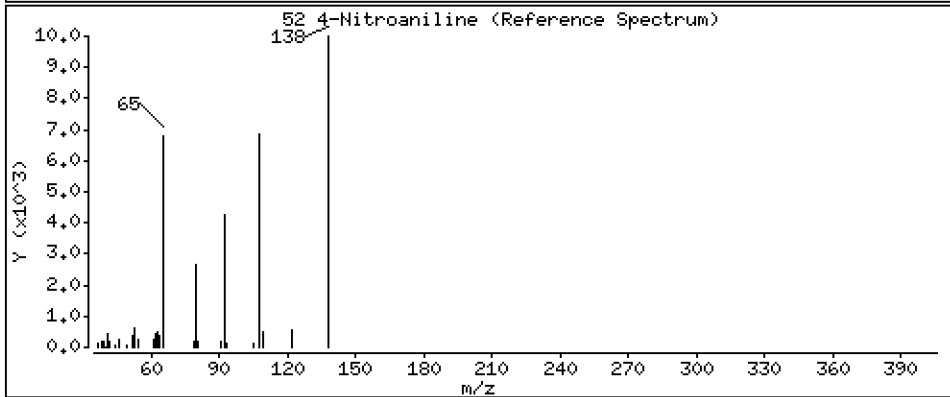
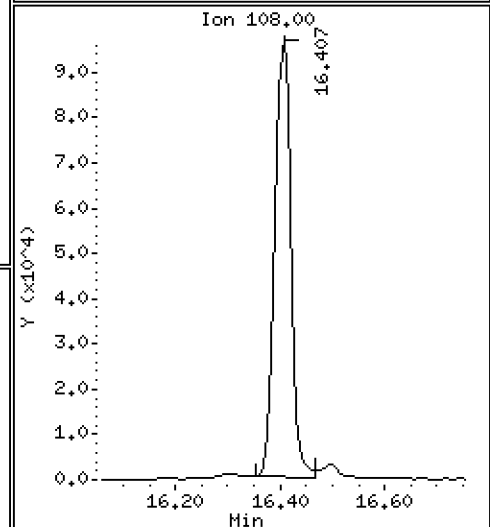
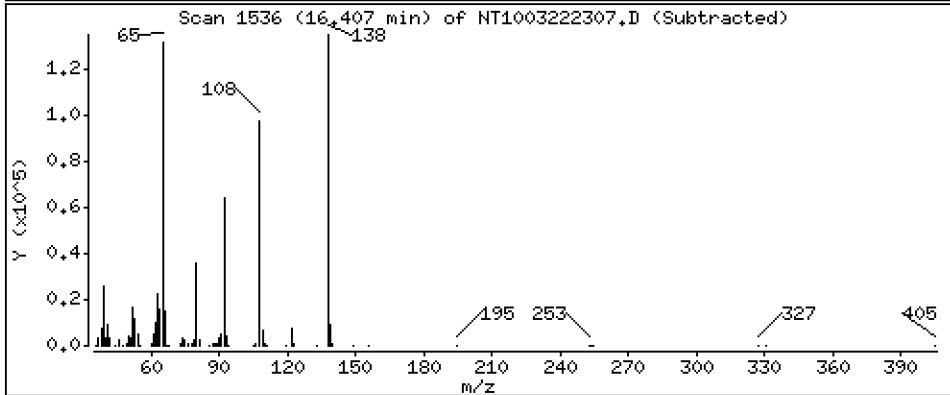
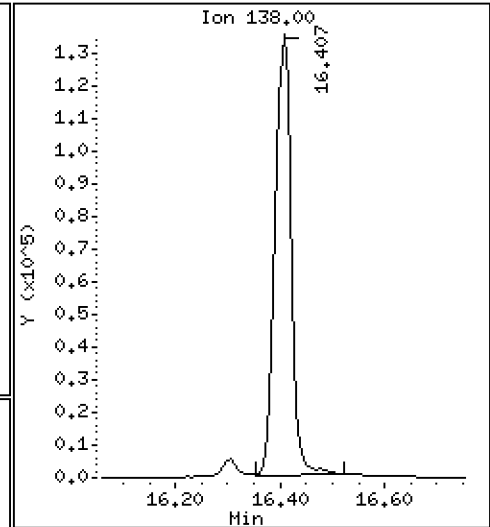
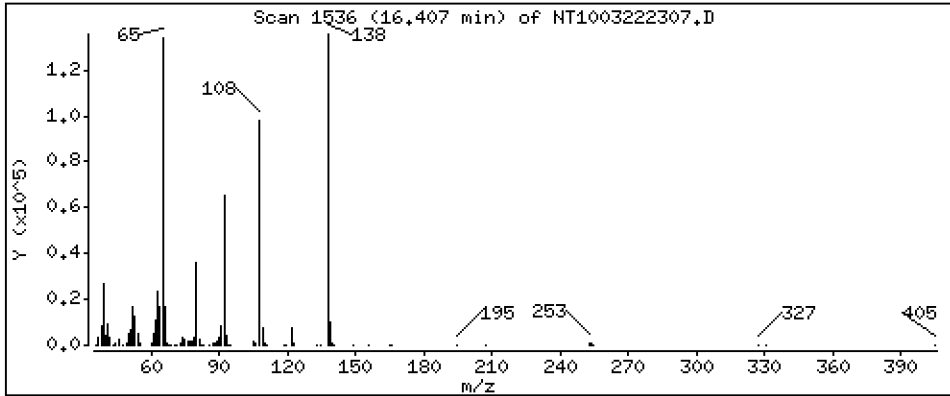
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 12,00 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

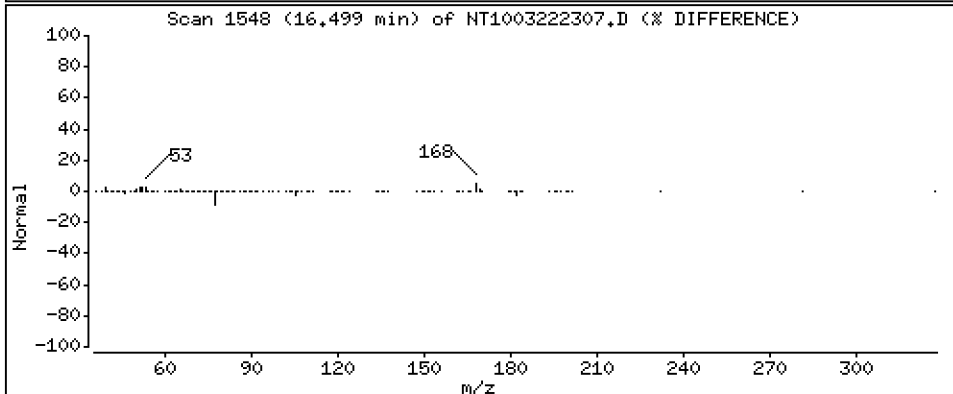
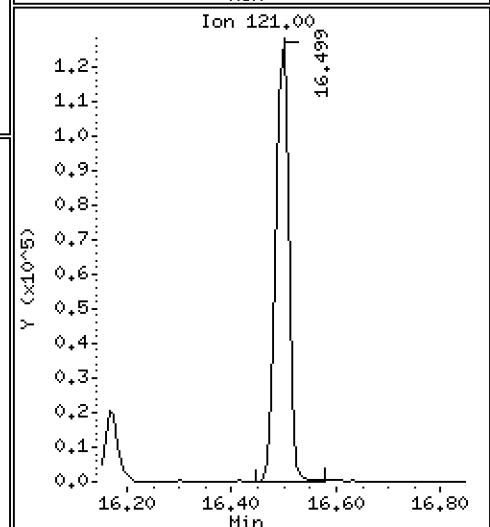
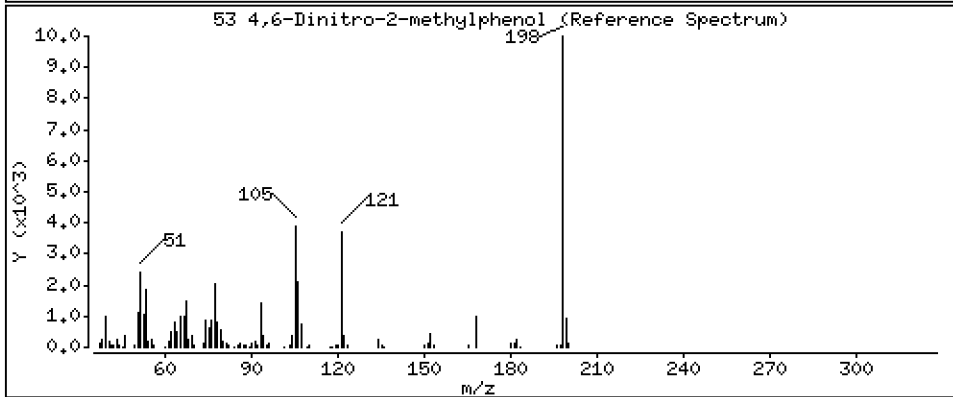
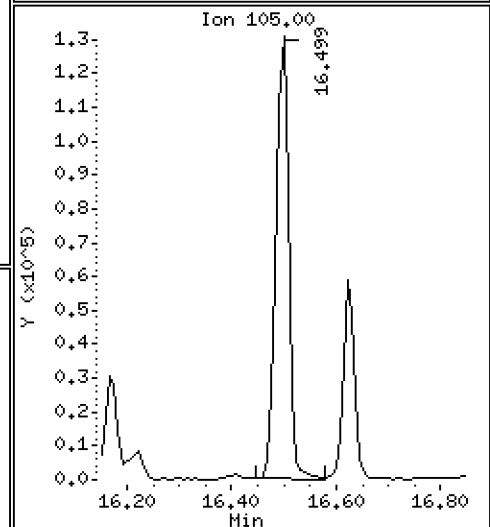
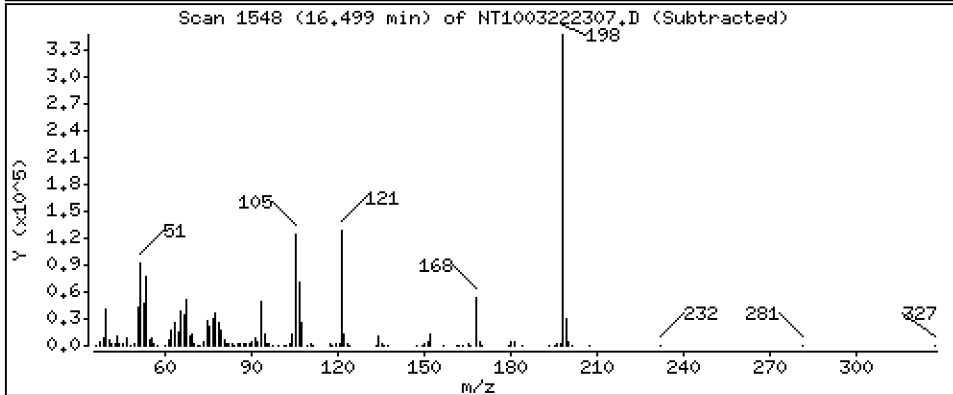
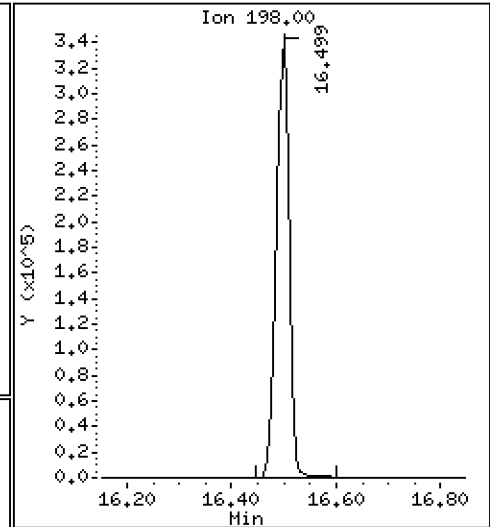
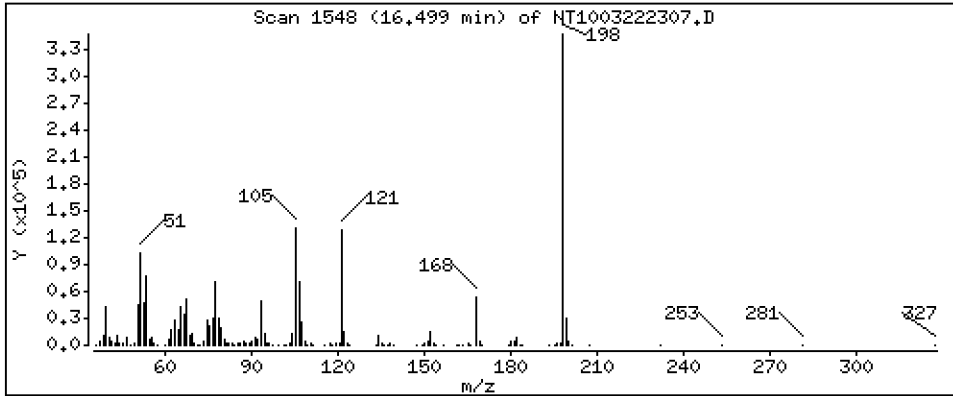
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 29,07 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

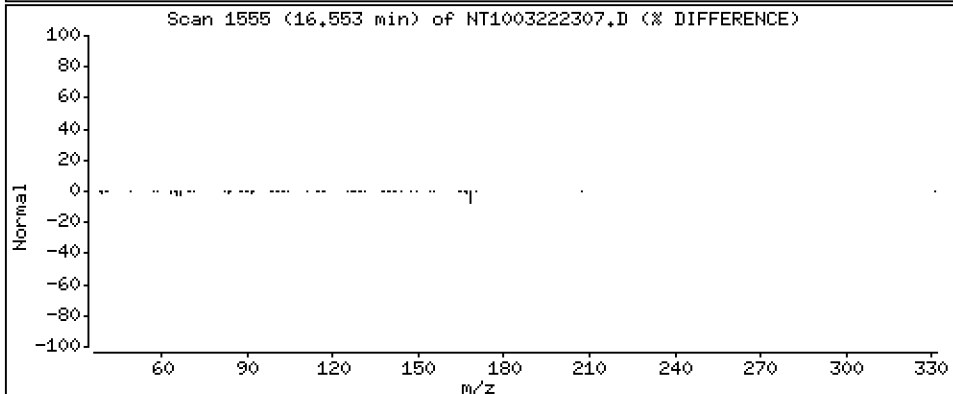
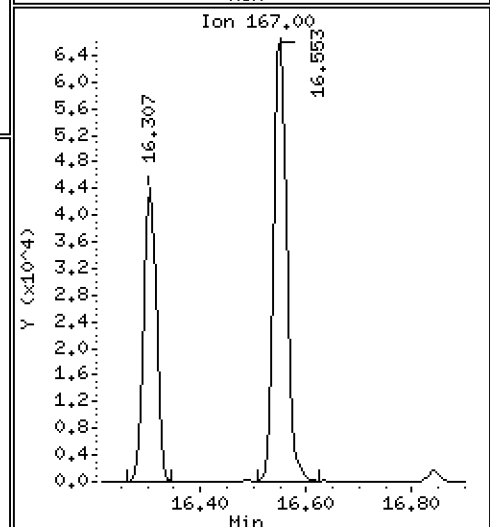
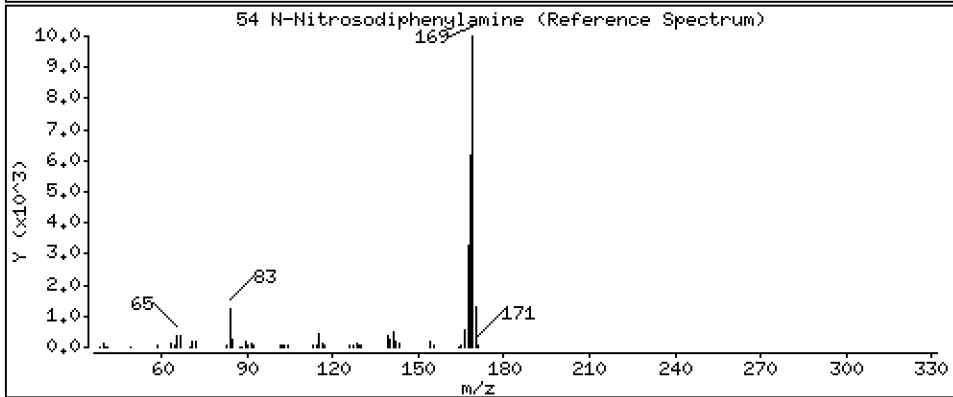
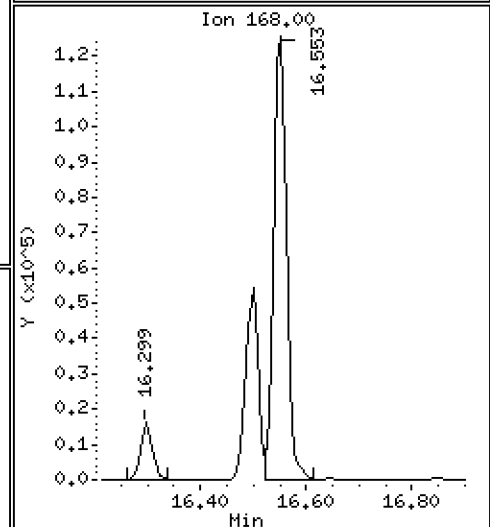
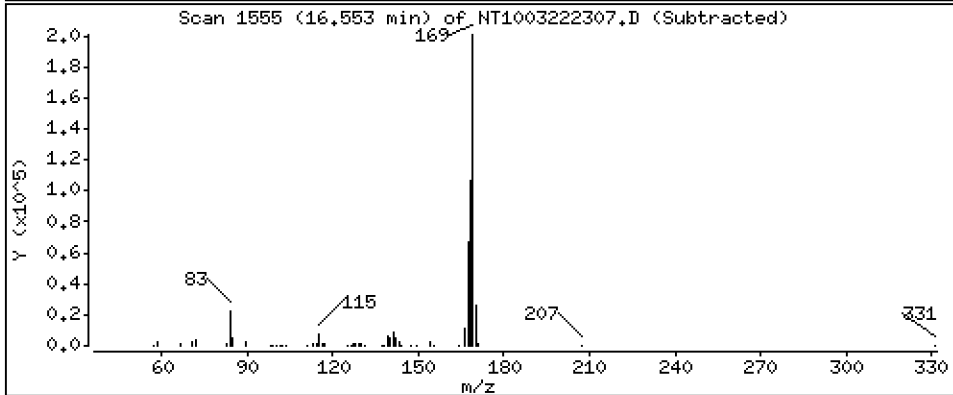
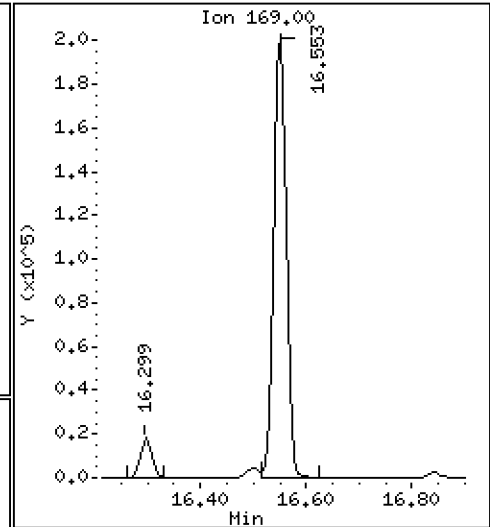
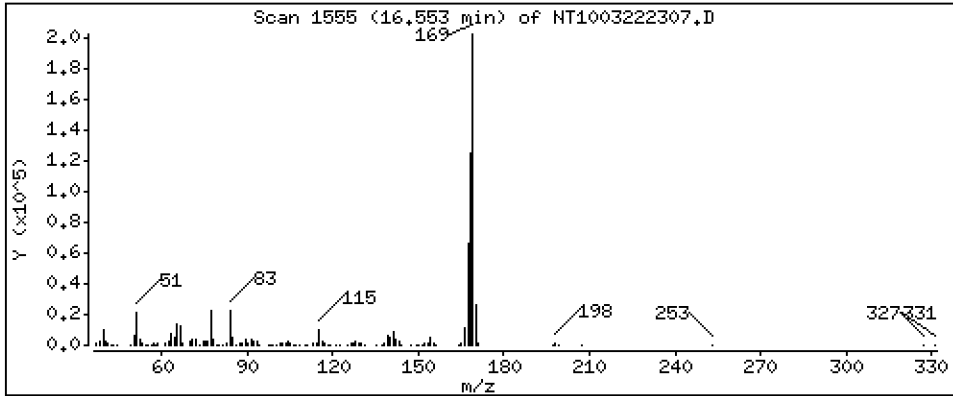
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 3,888 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

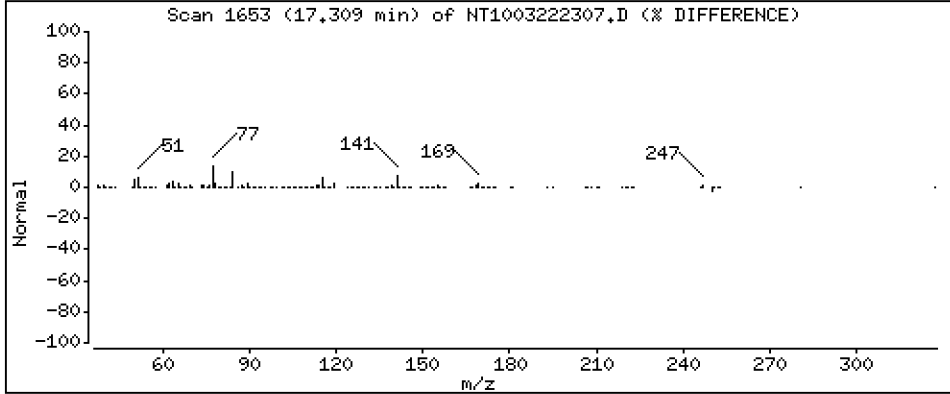
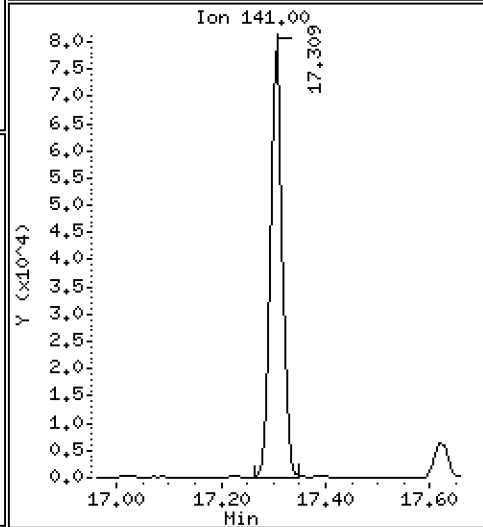
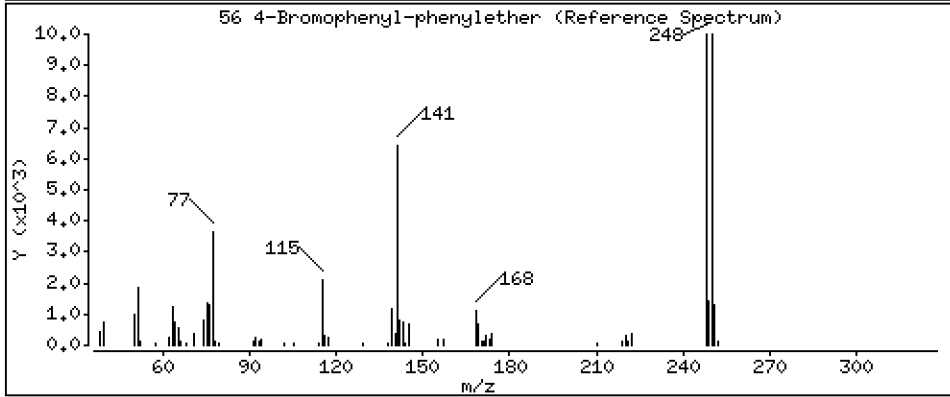
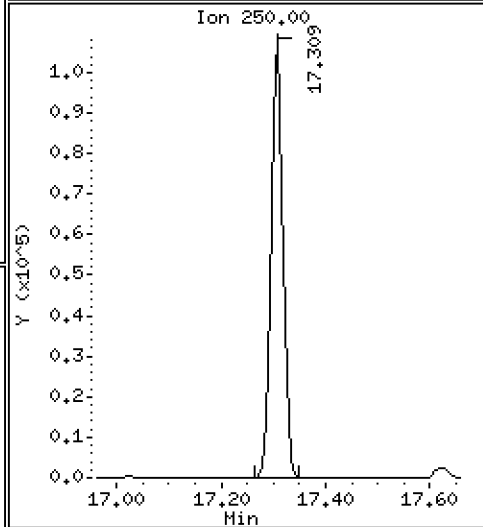
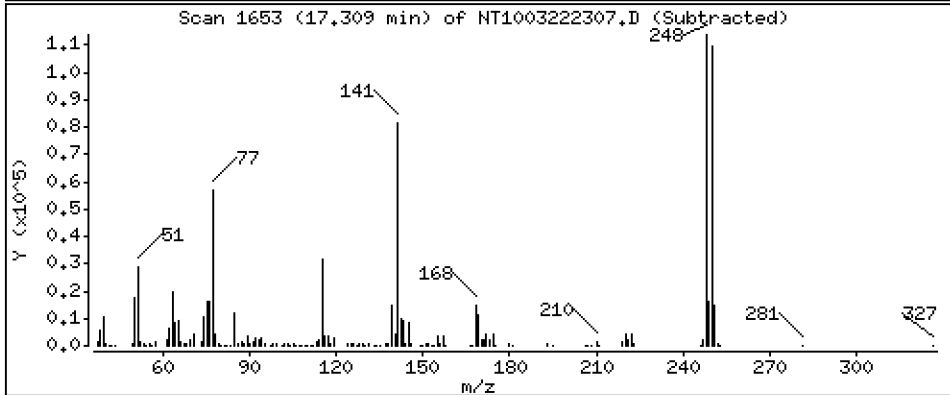
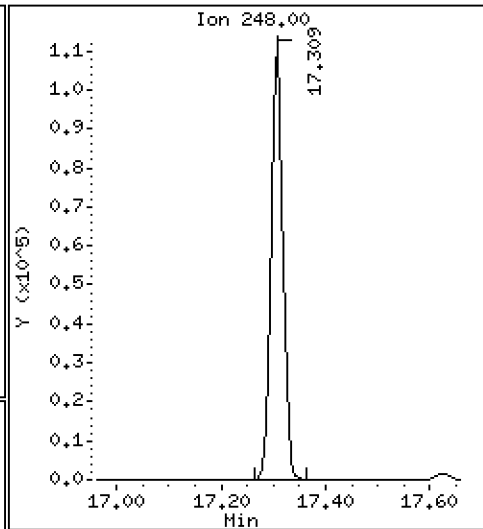
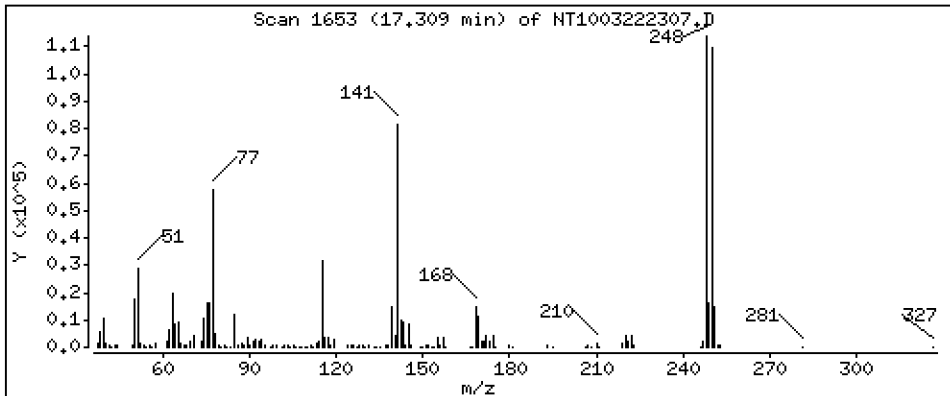
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,059 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

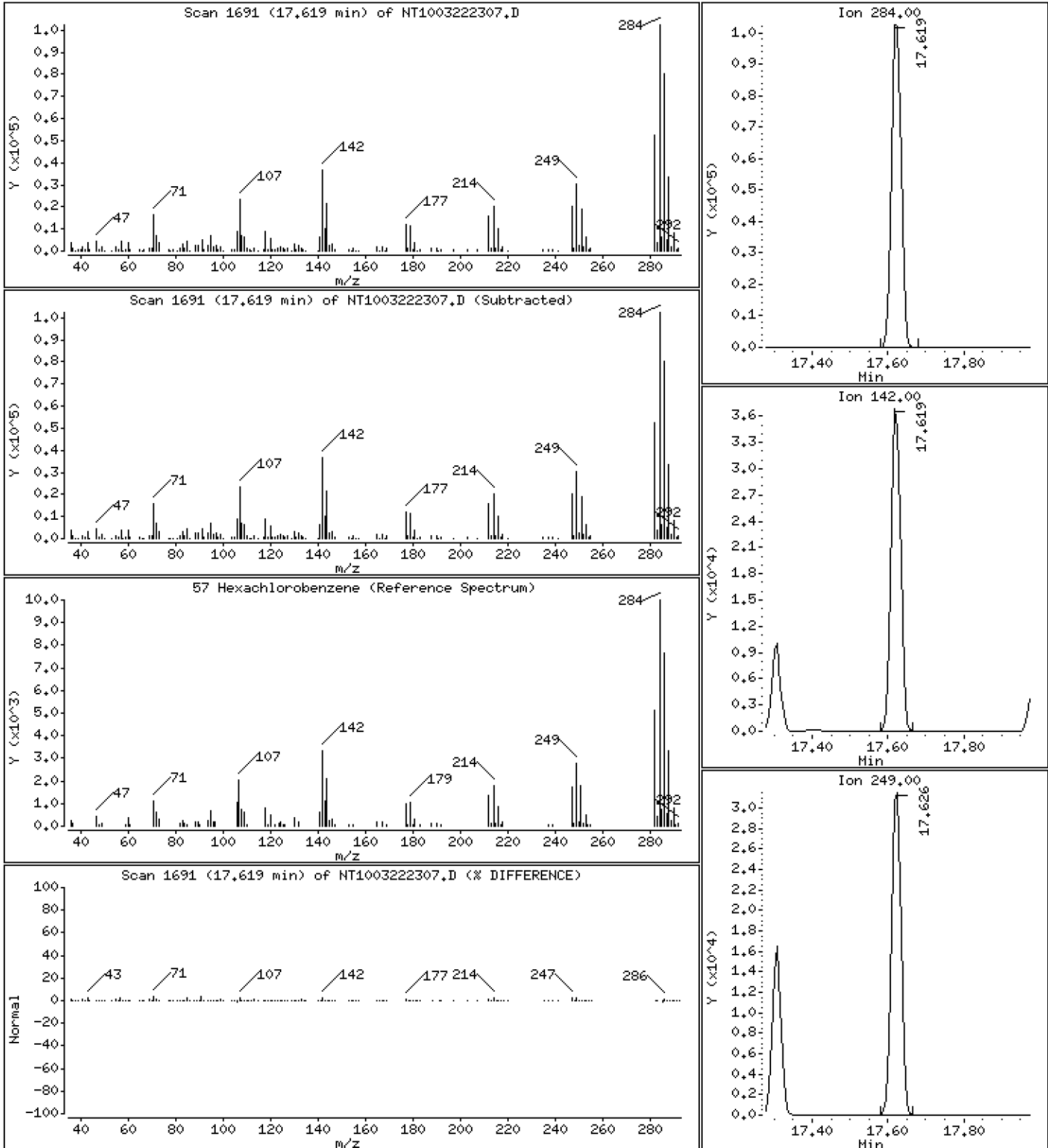
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,916 ug/mL





Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

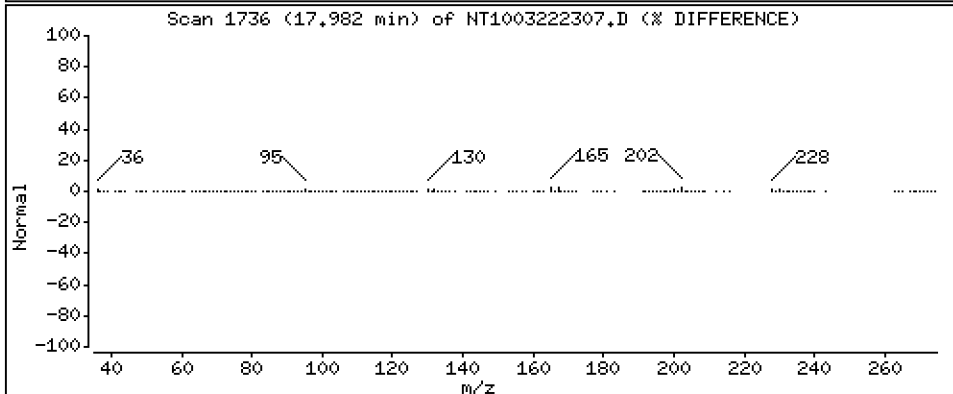
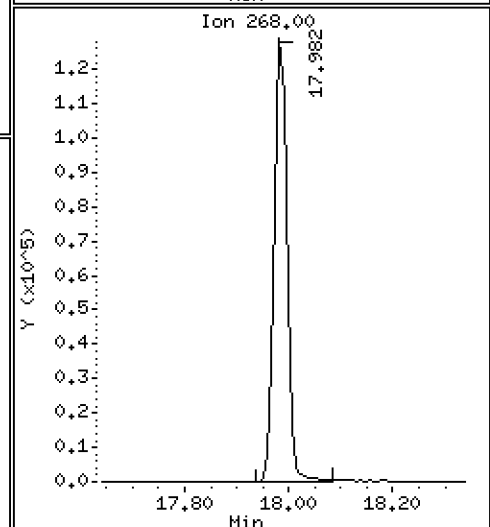
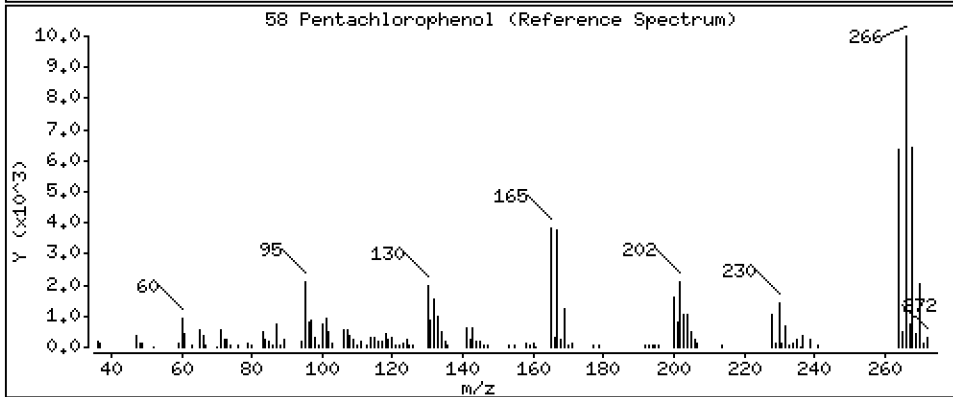
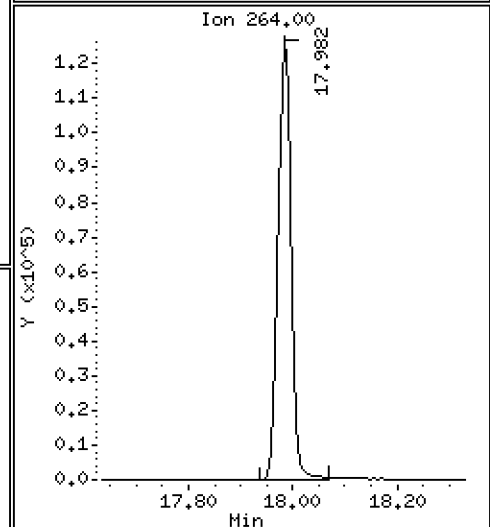
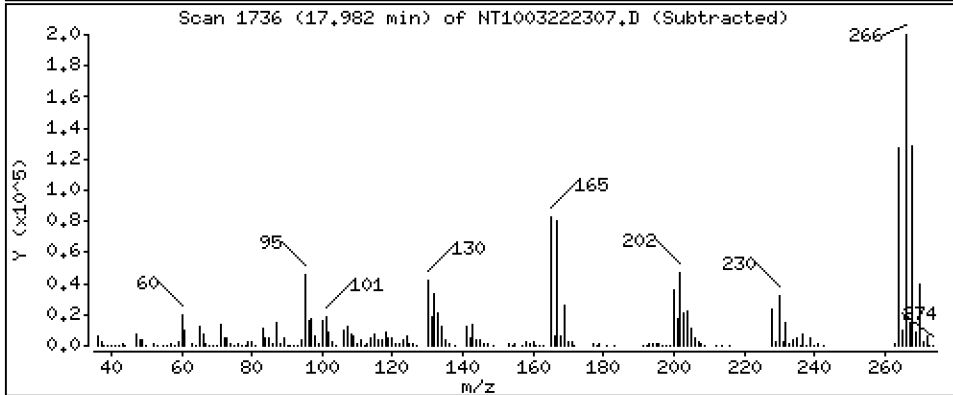
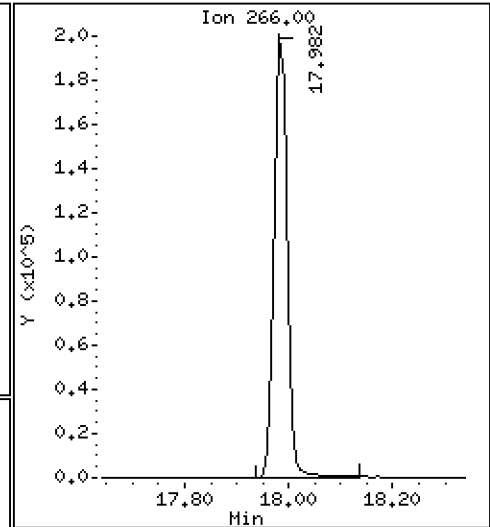
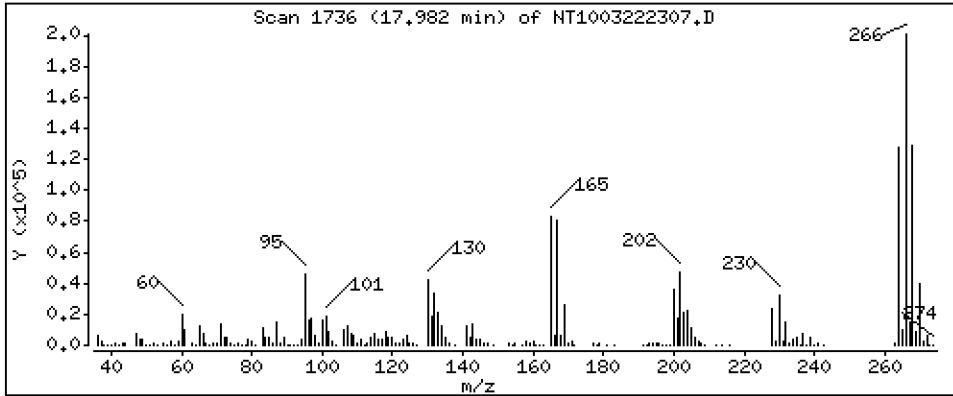
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 15,16 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

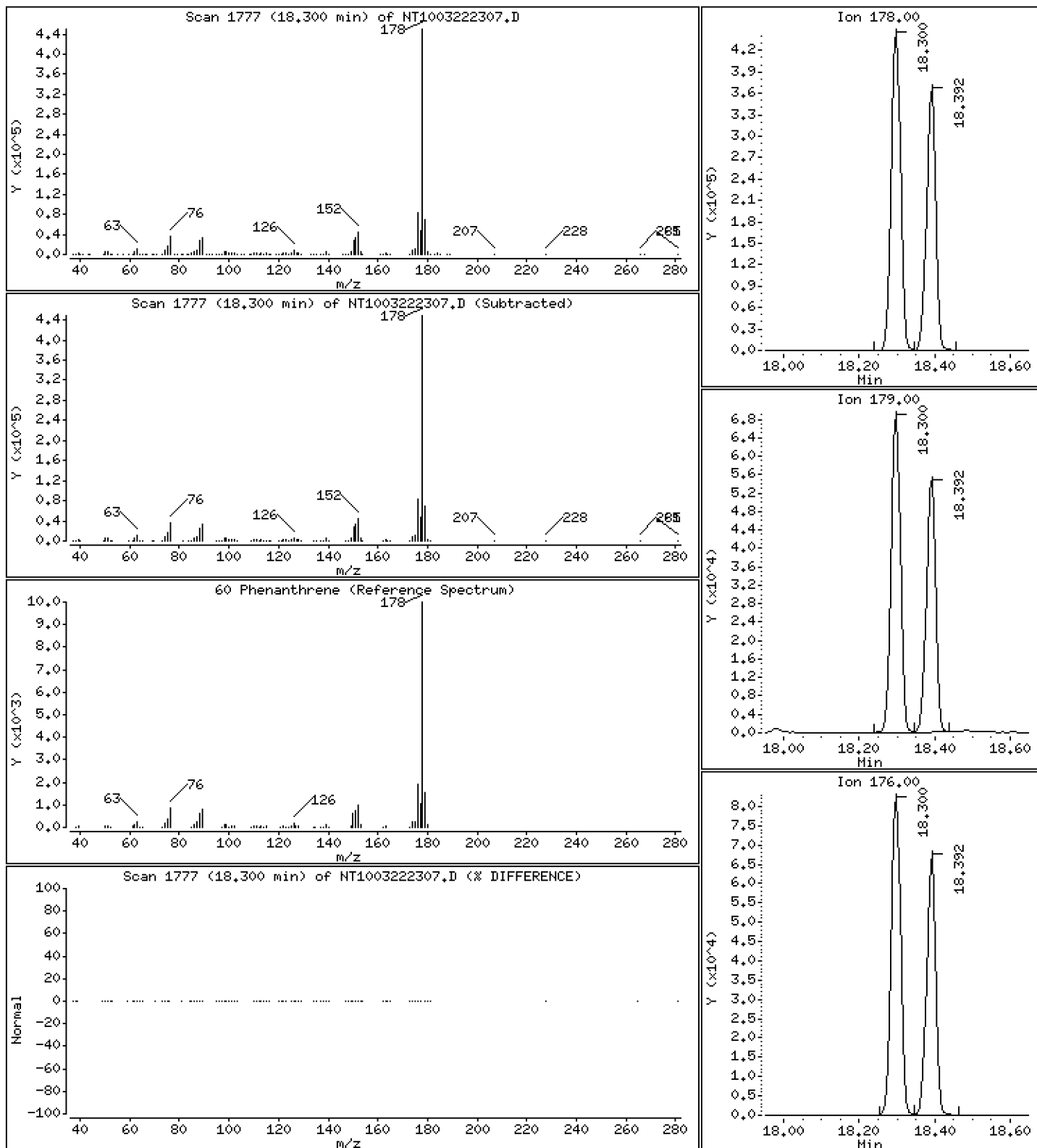
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,407 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

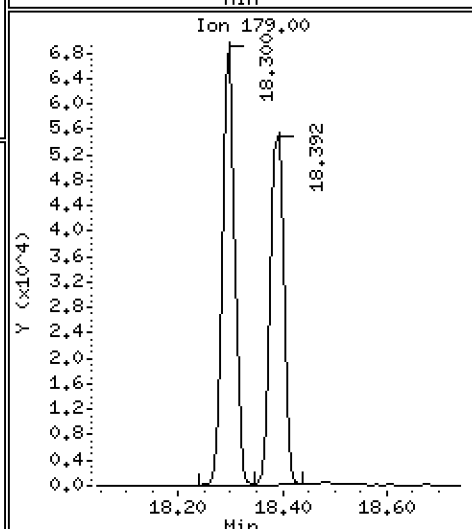
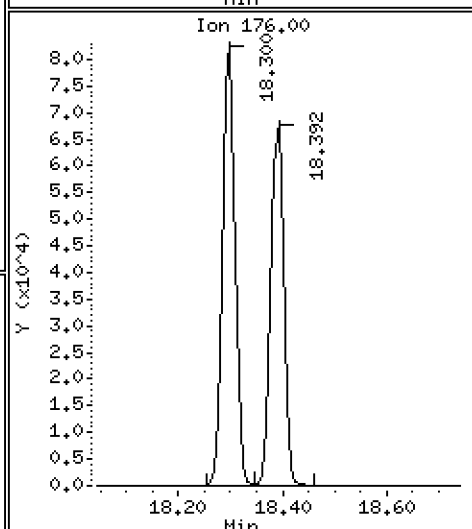
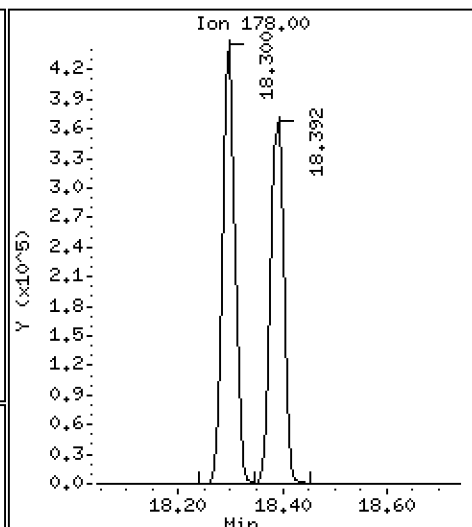
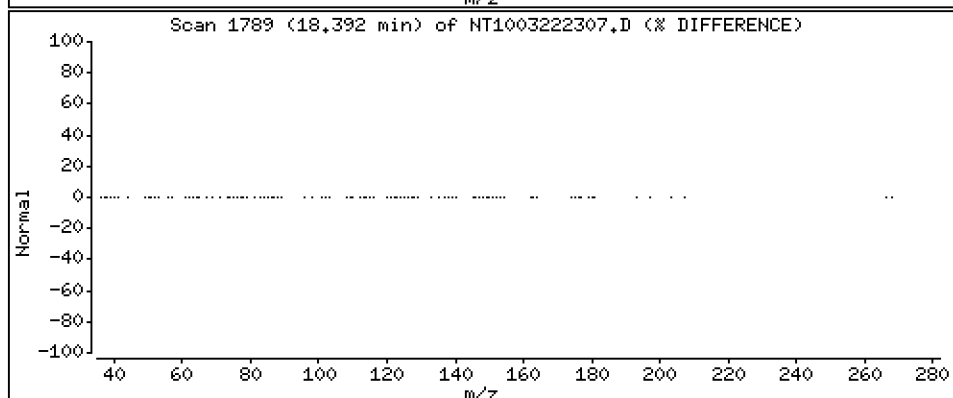
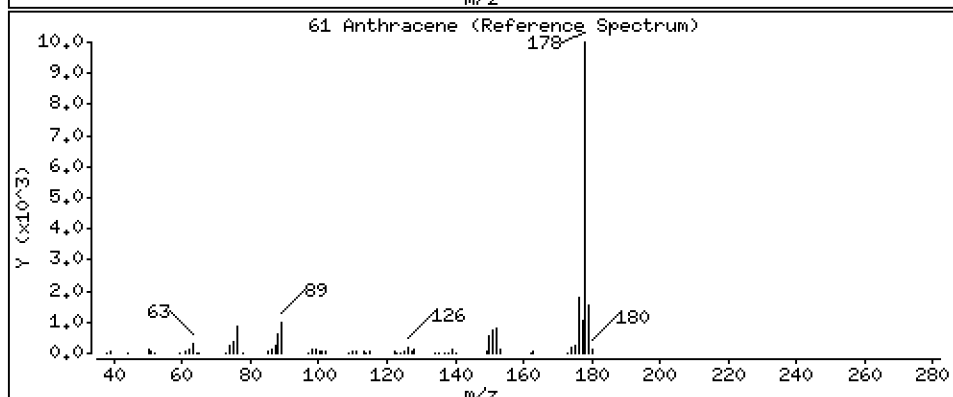
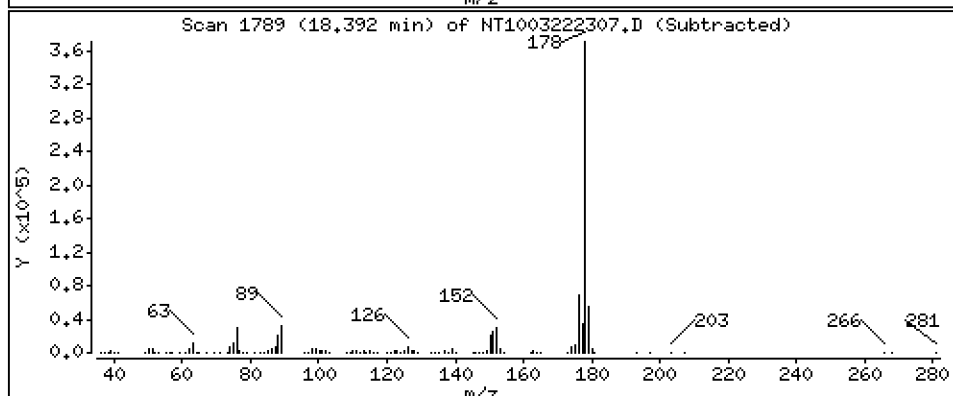
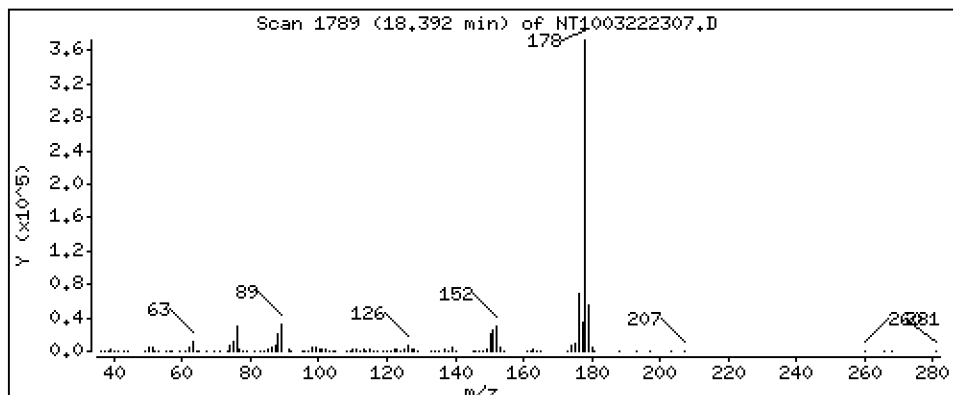
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 3,905 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

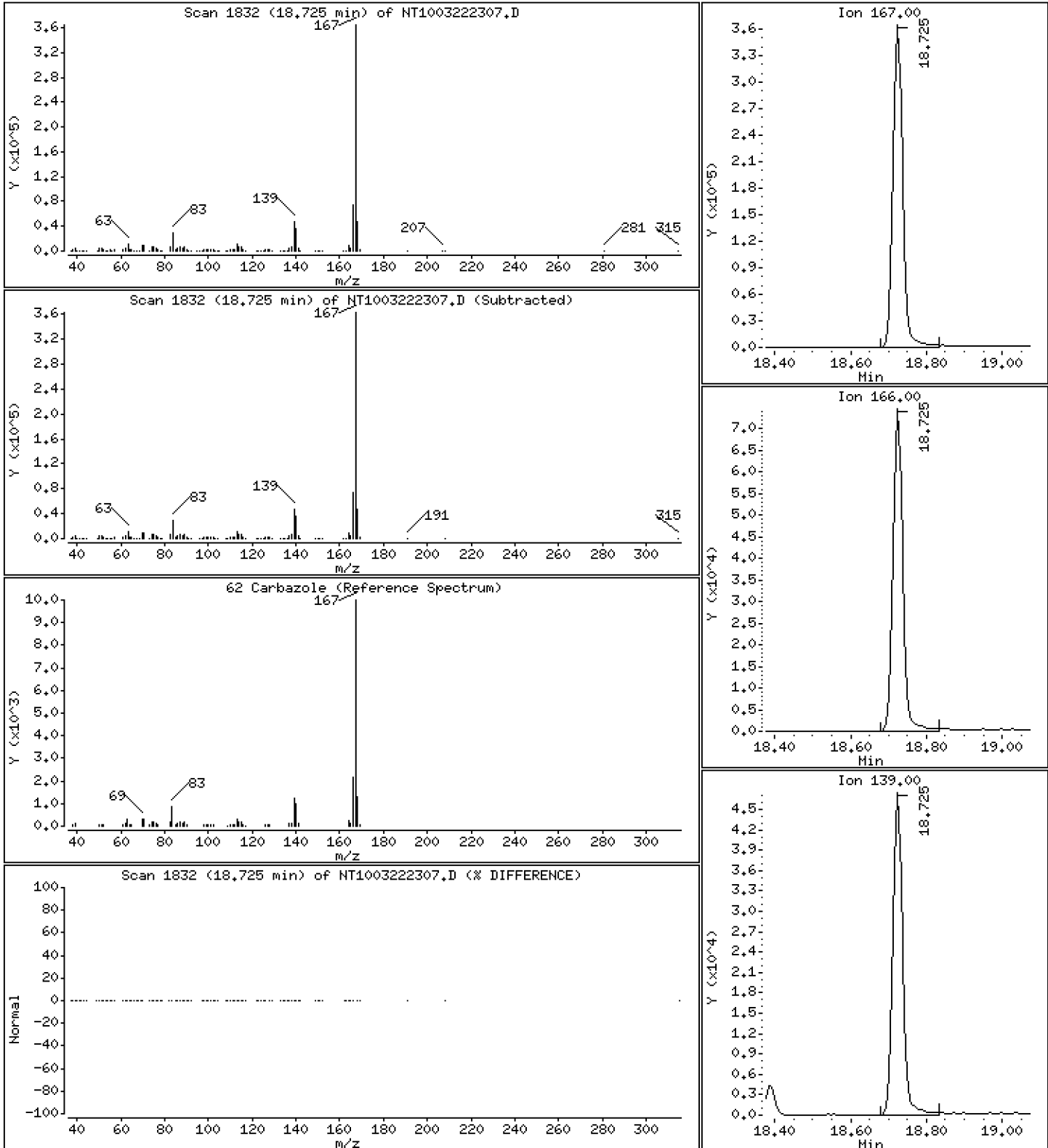
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,342 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

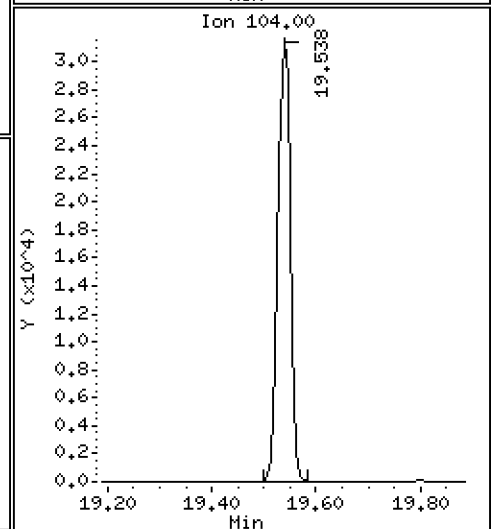
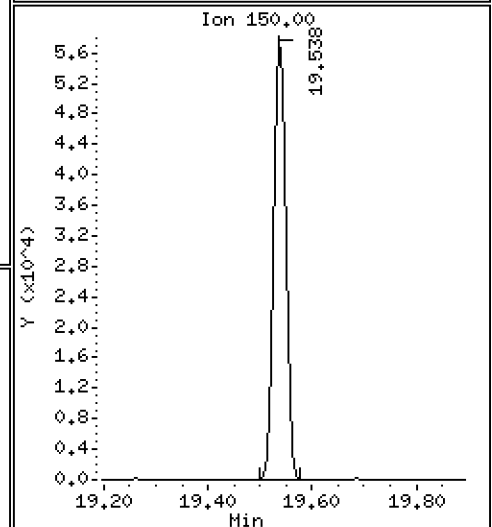
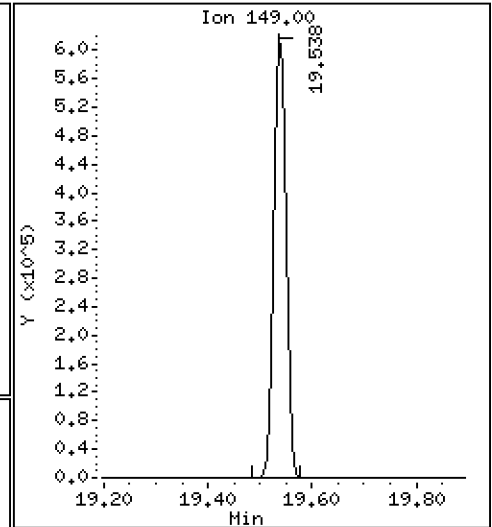
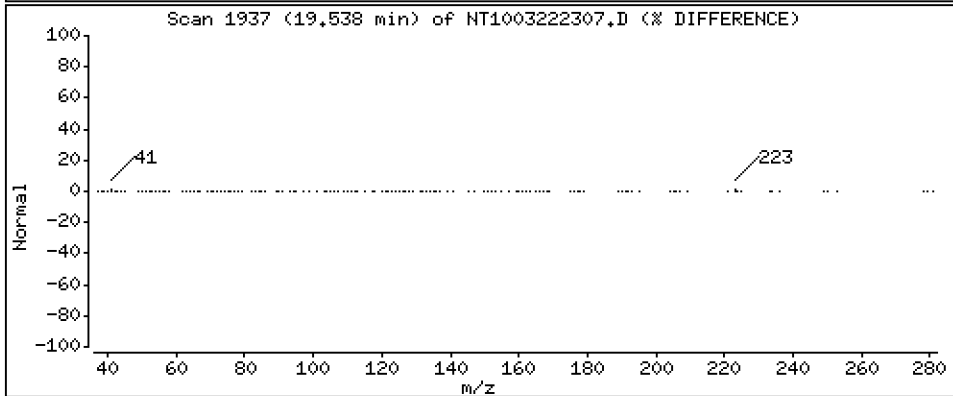
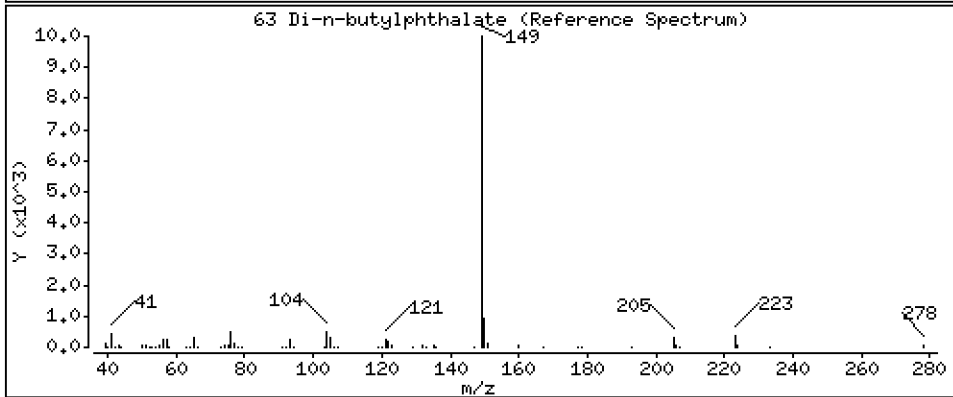
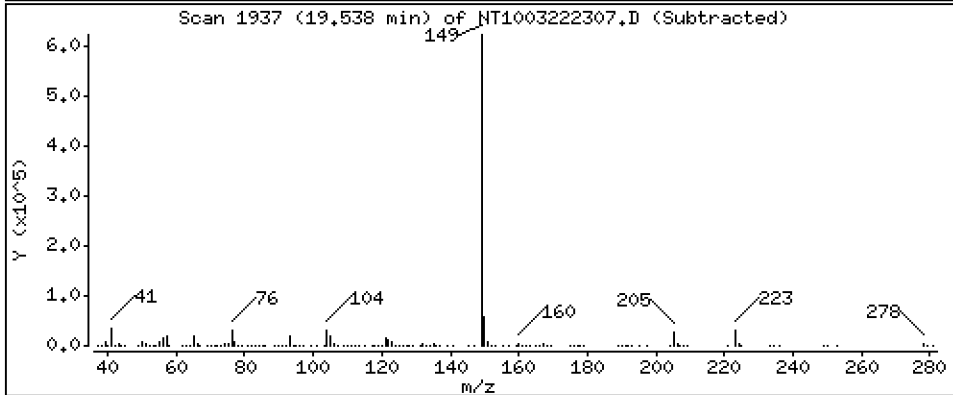
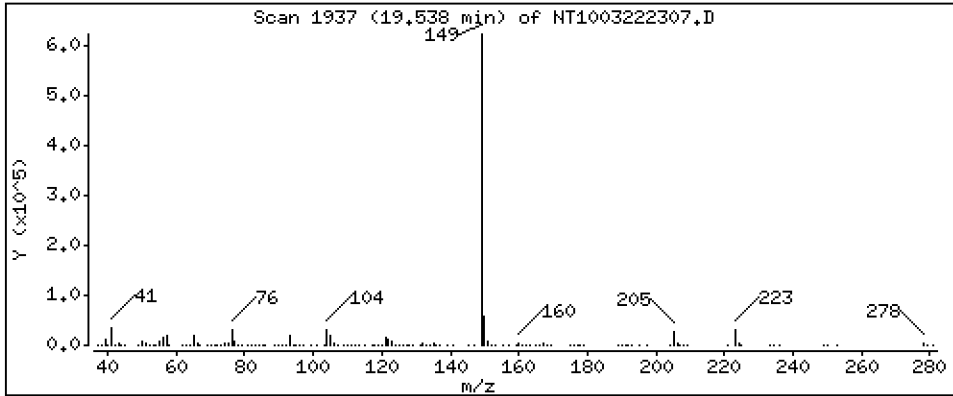
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 5,143 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

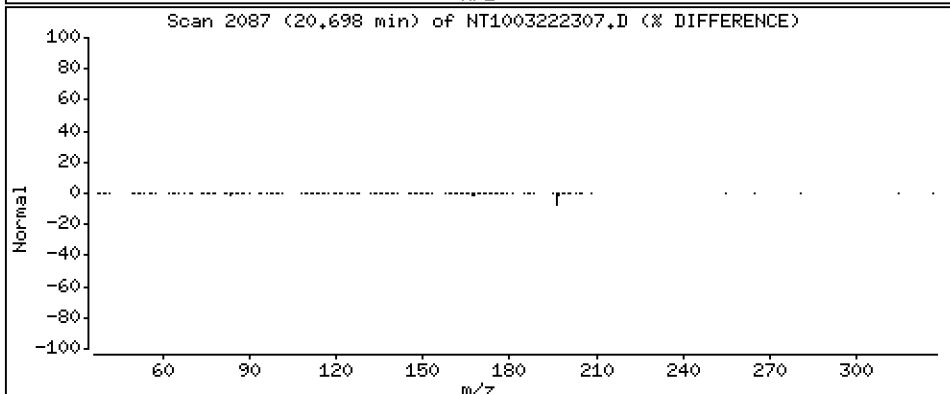
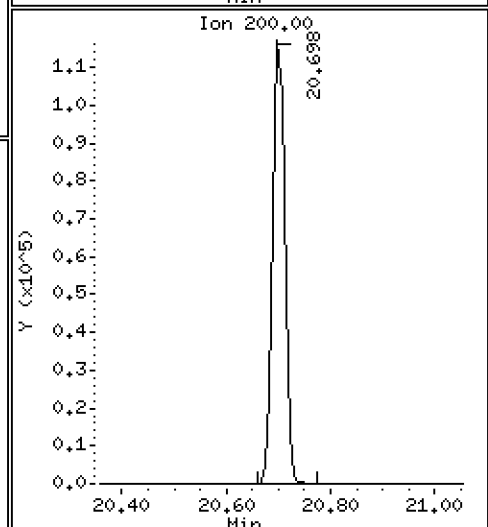
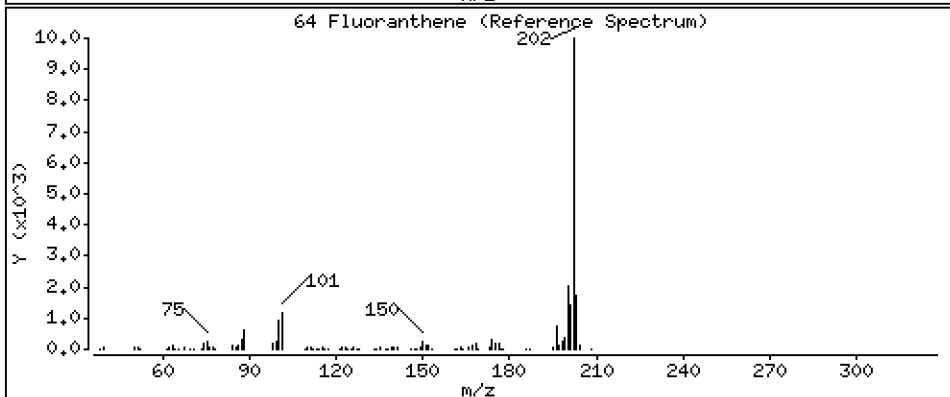
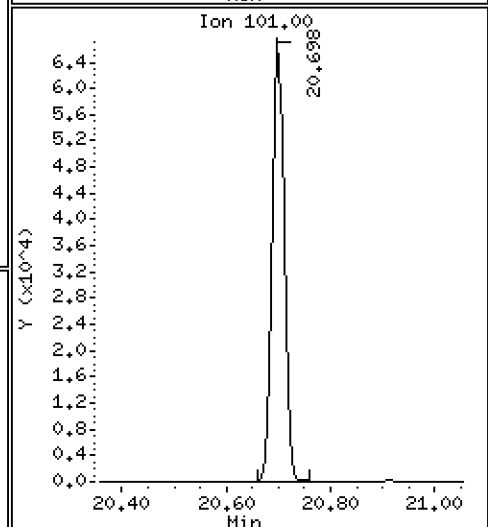
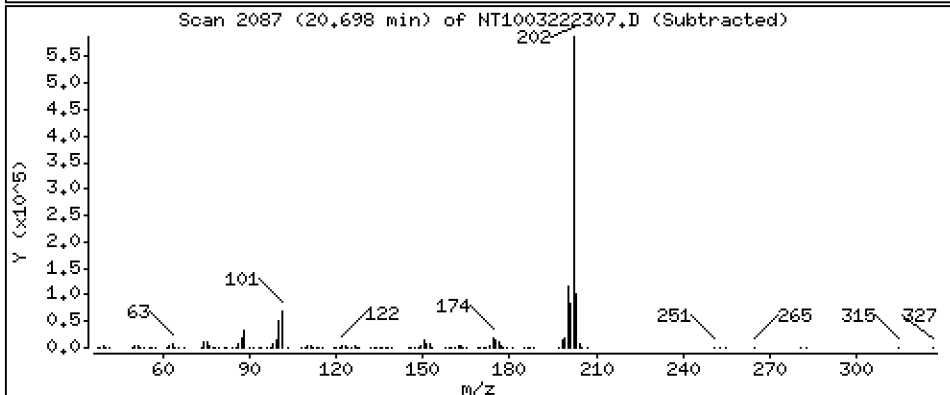
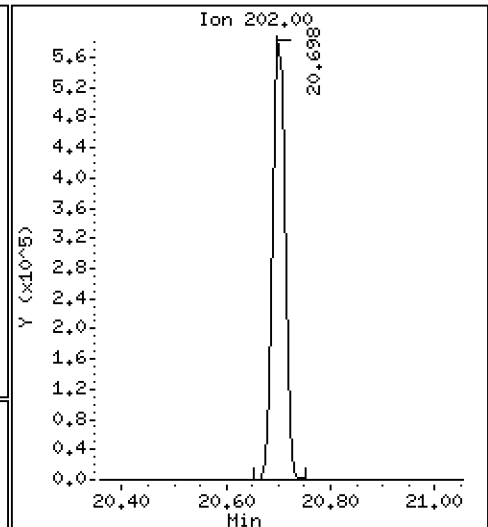
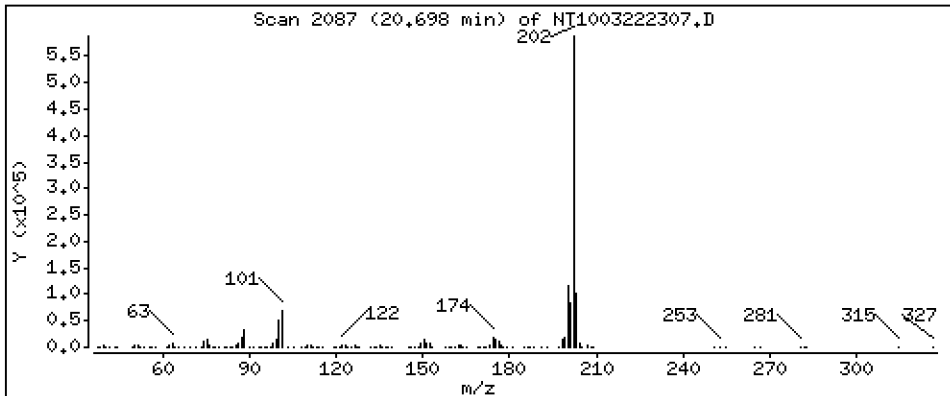
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,388 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

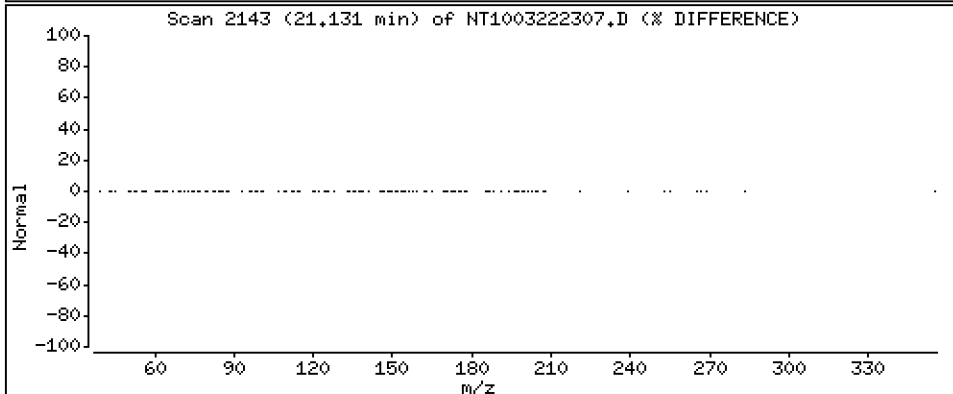
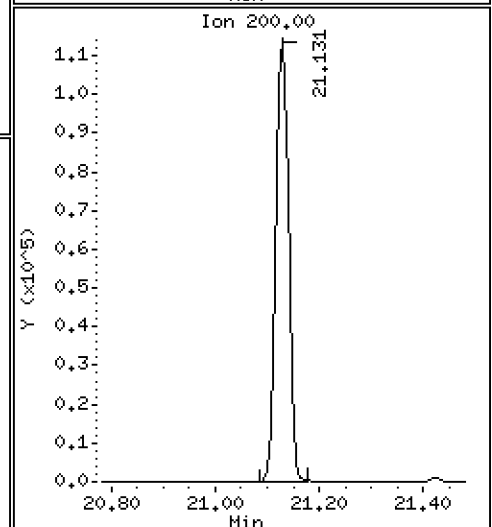
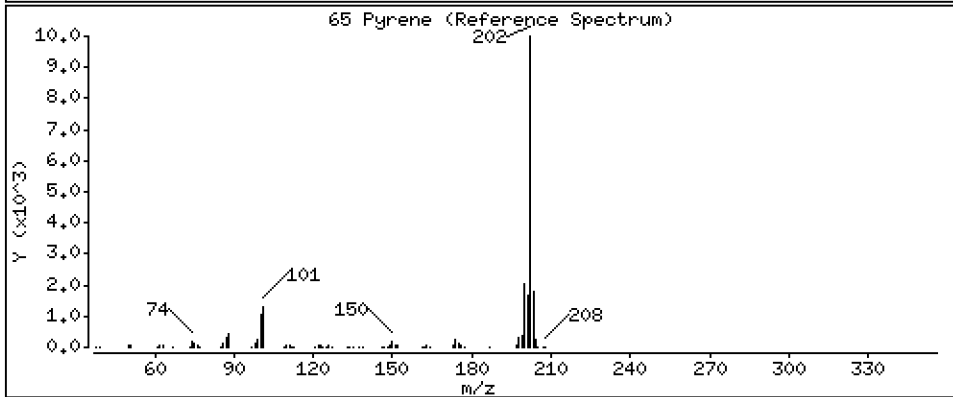
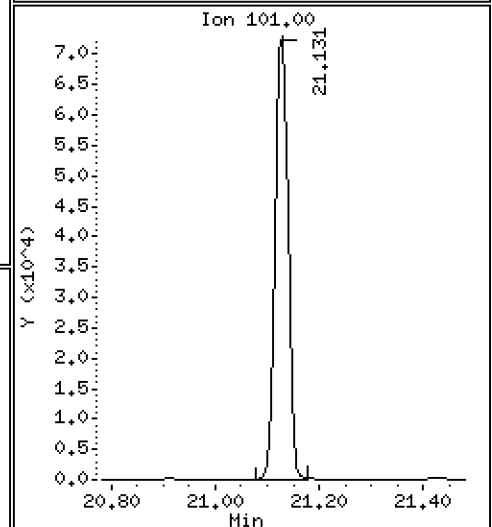
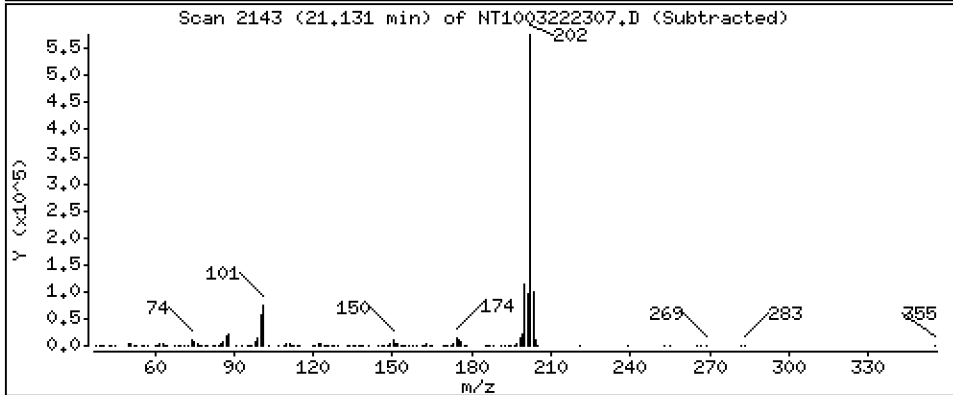
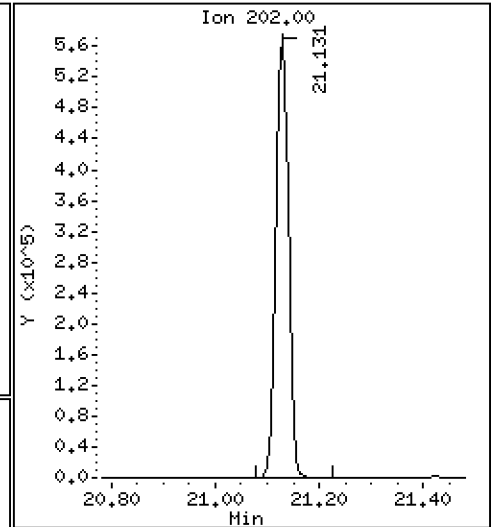
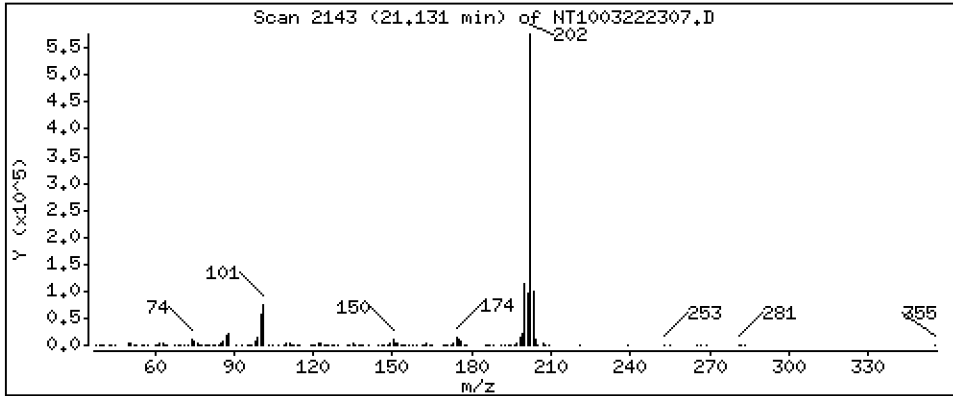
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,806 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

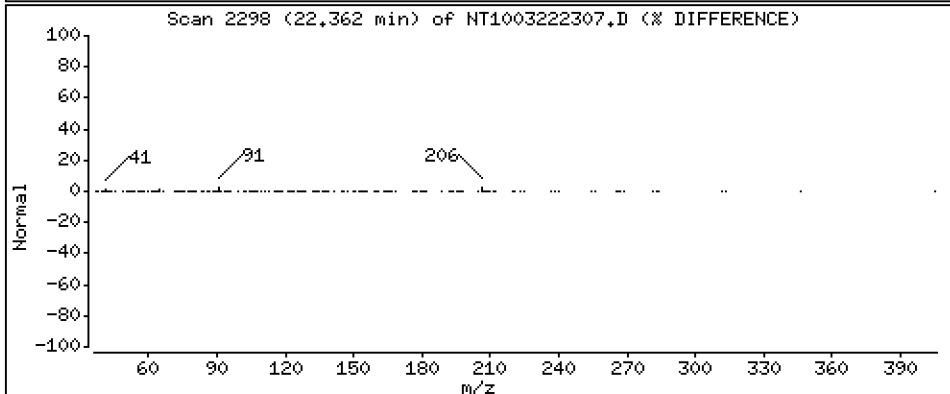
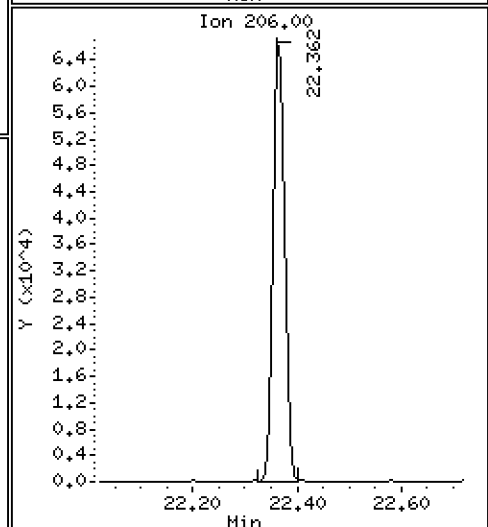
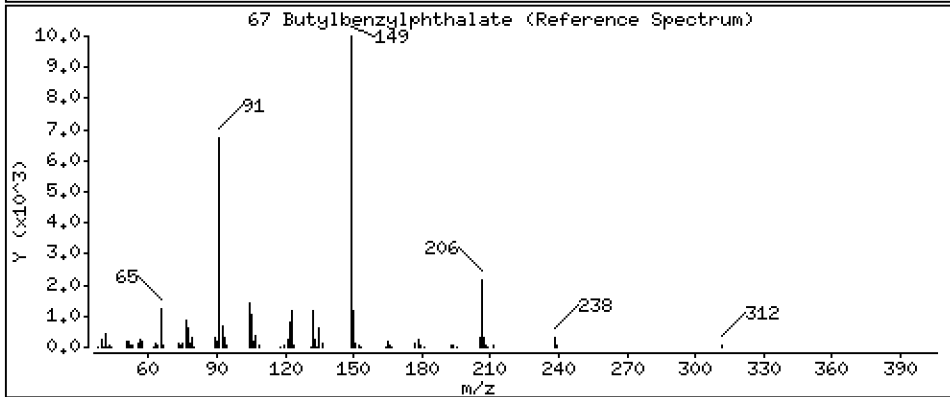
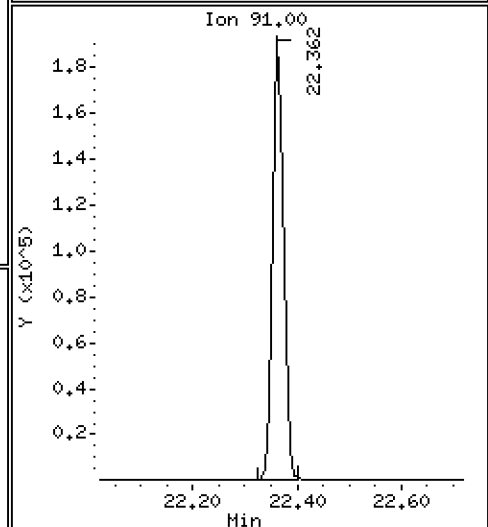
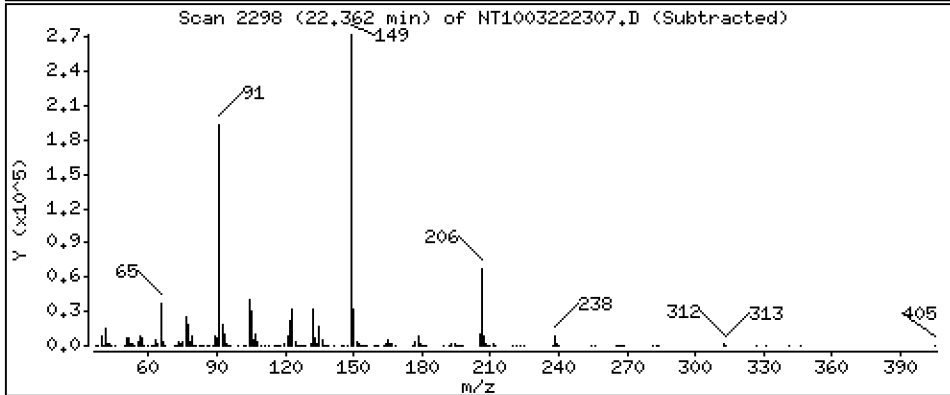
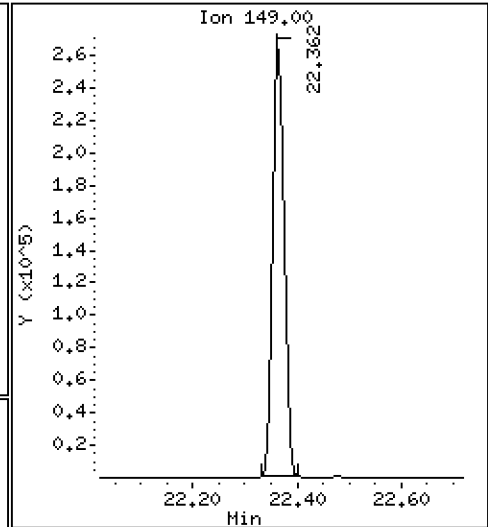
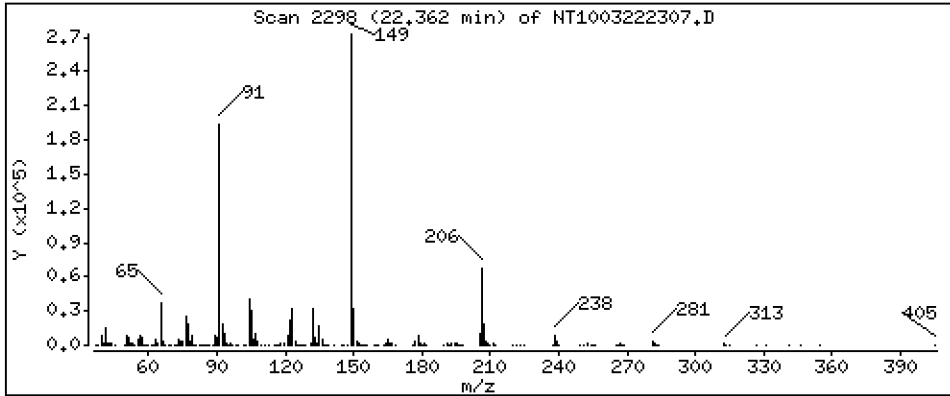
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,070 ug/mL





Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

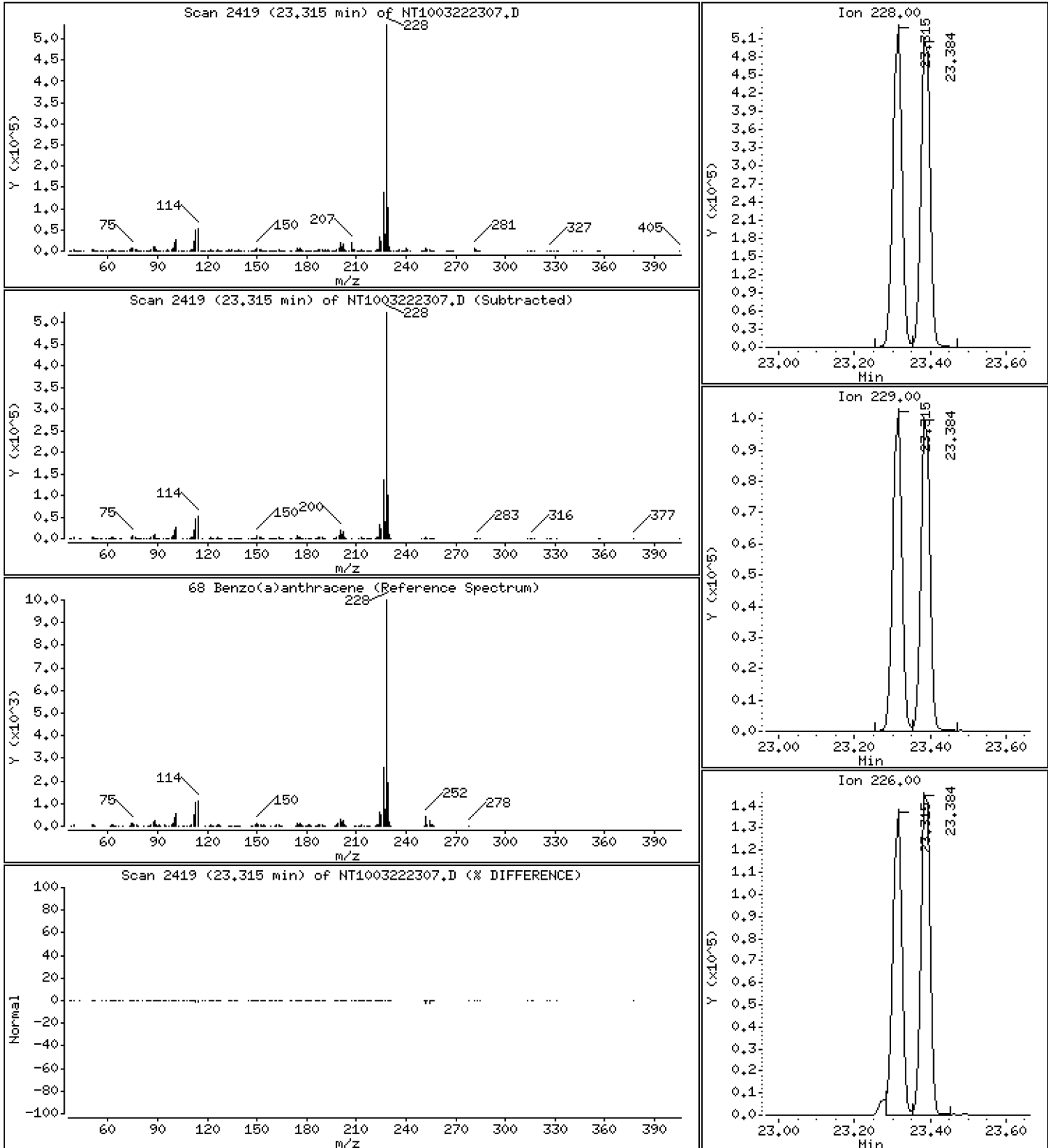
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,518 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

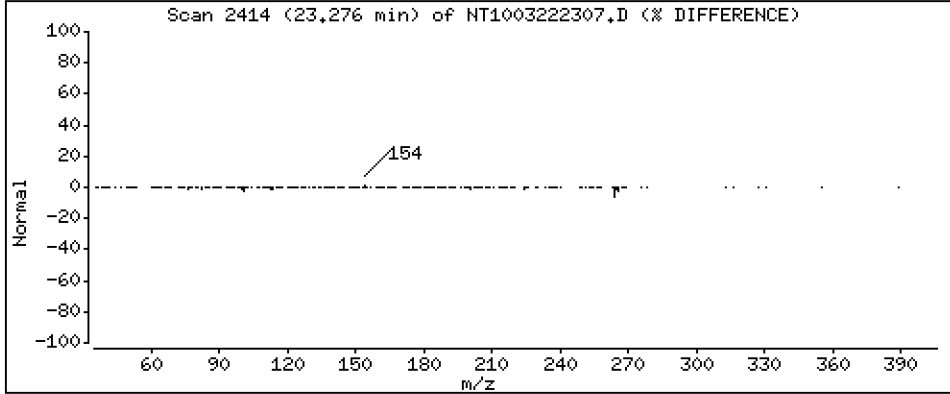
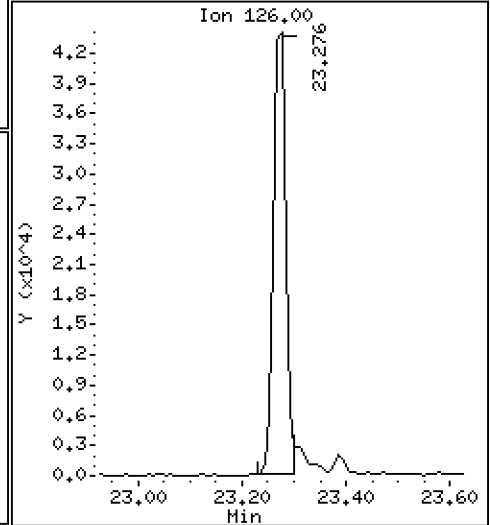
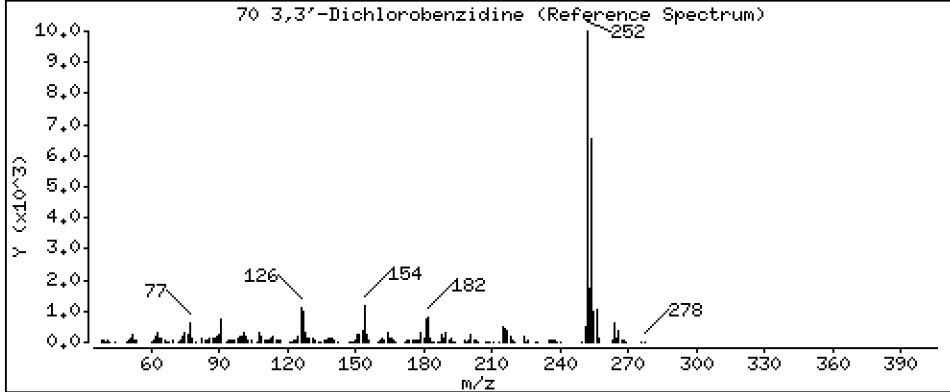
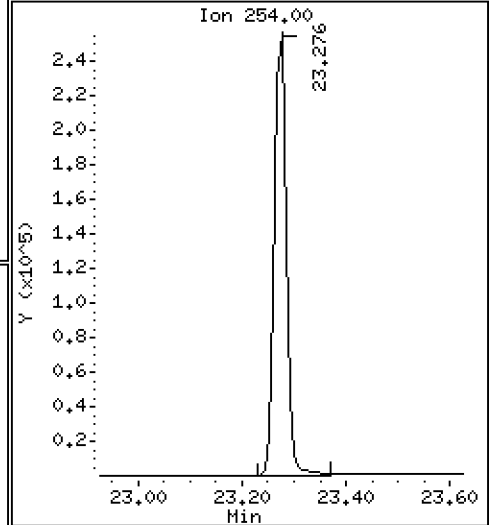
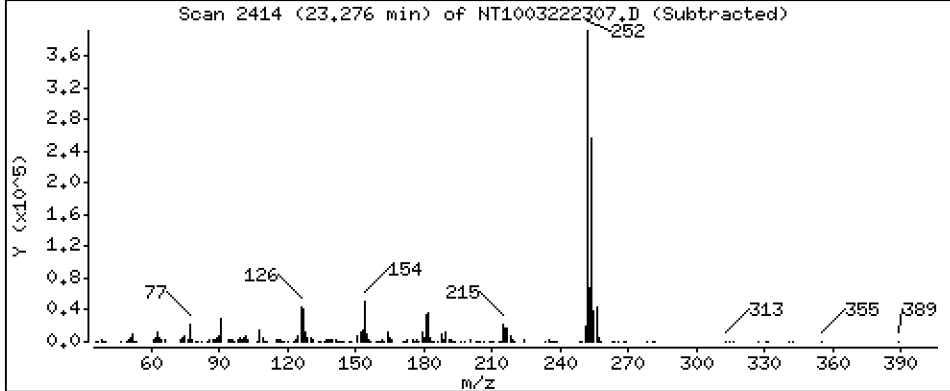
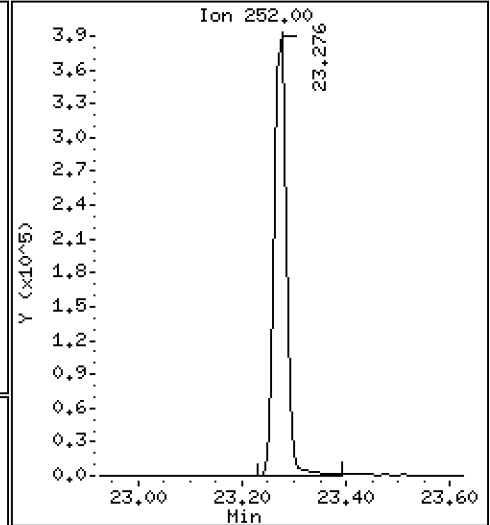
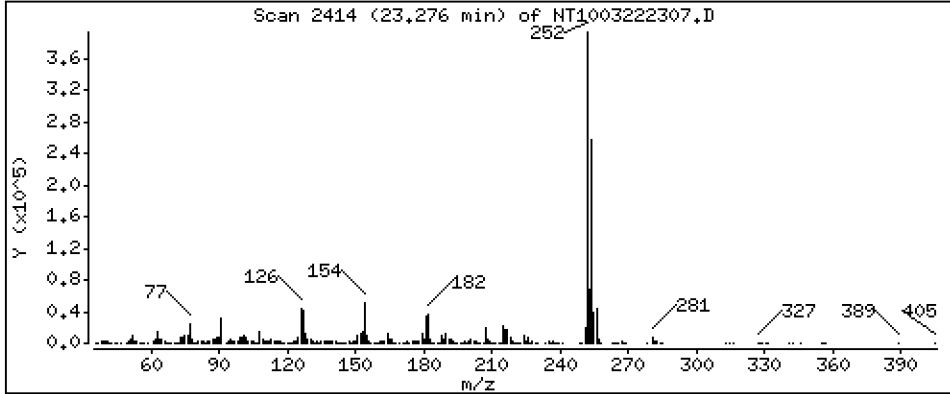
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 10,21 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

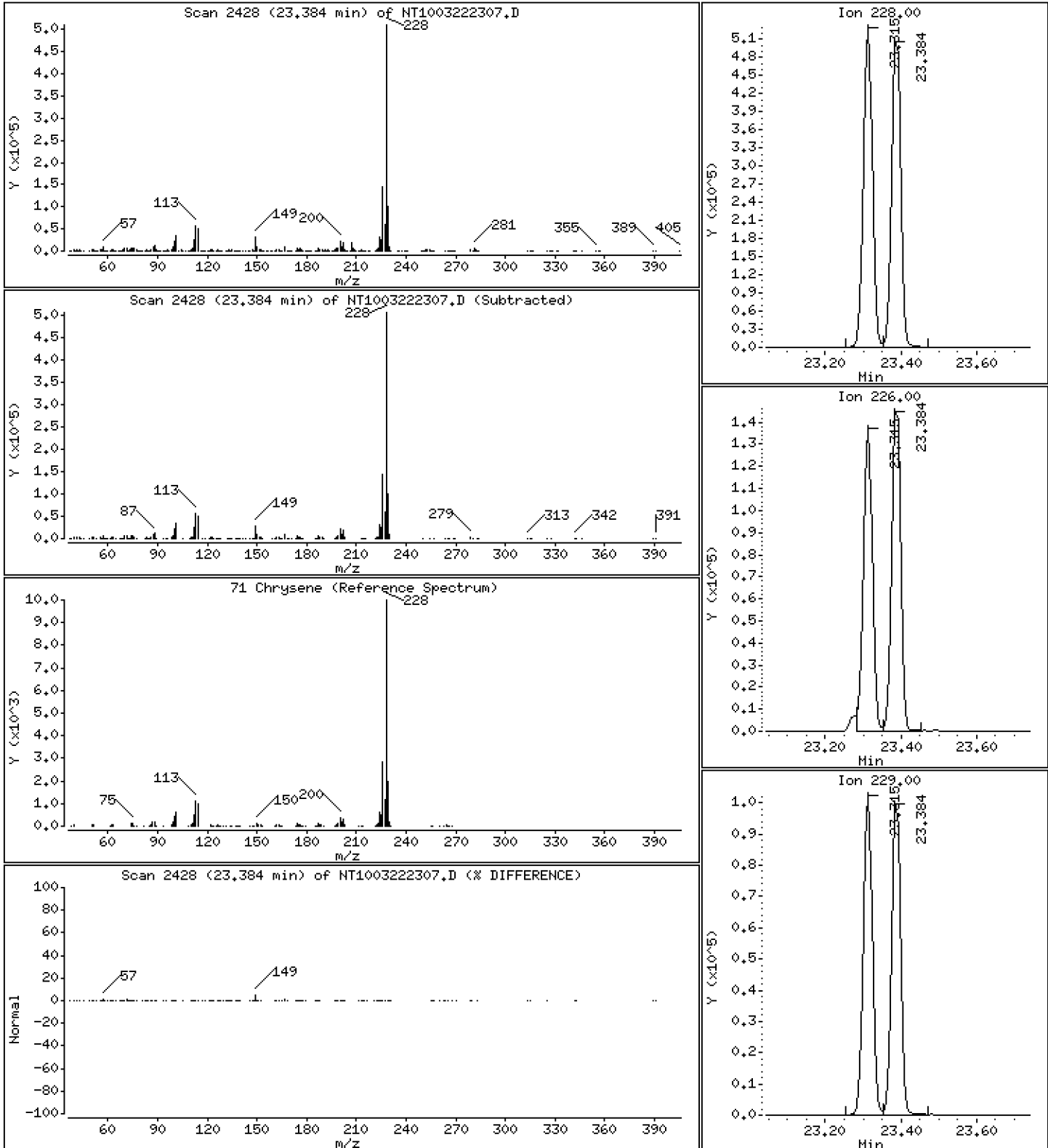
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,427 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

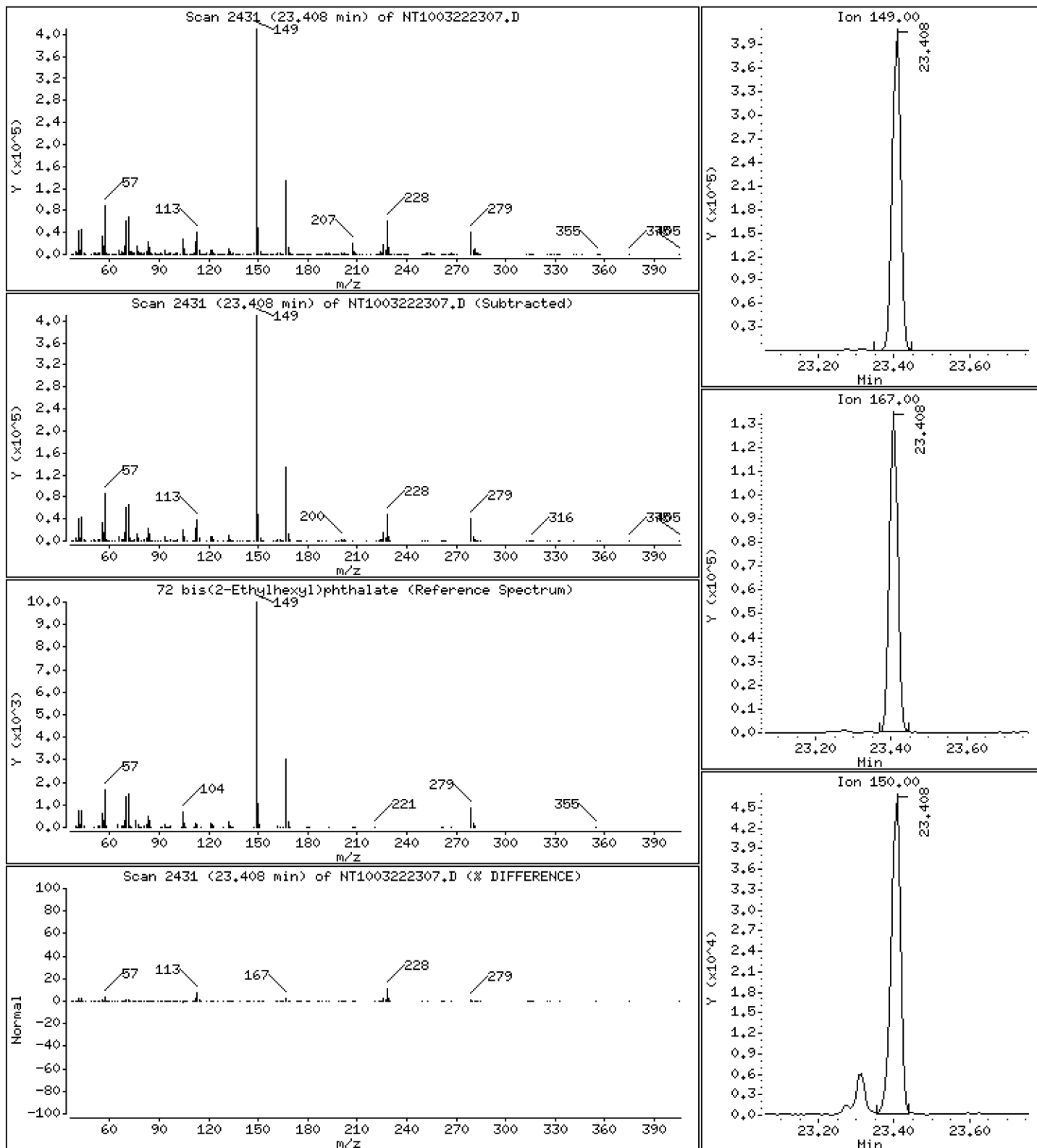
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,636 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

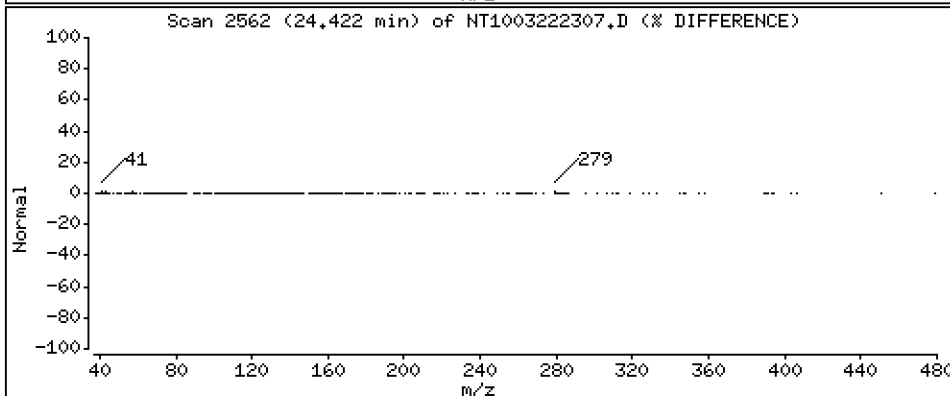
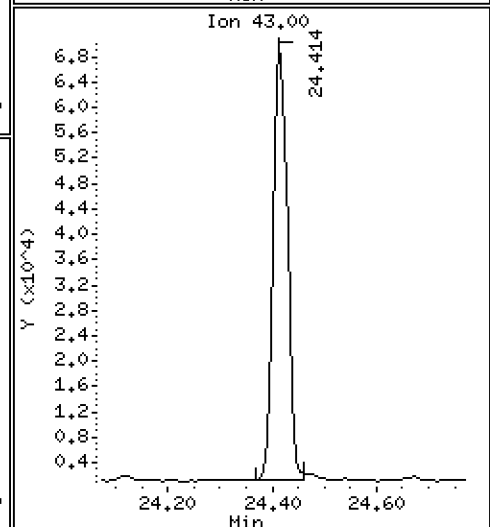
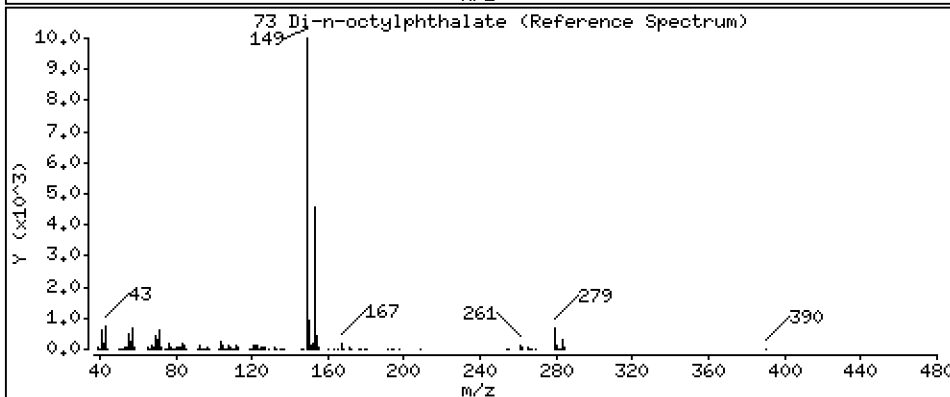
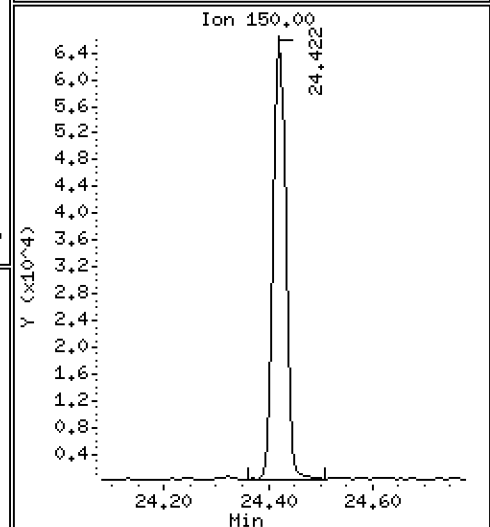
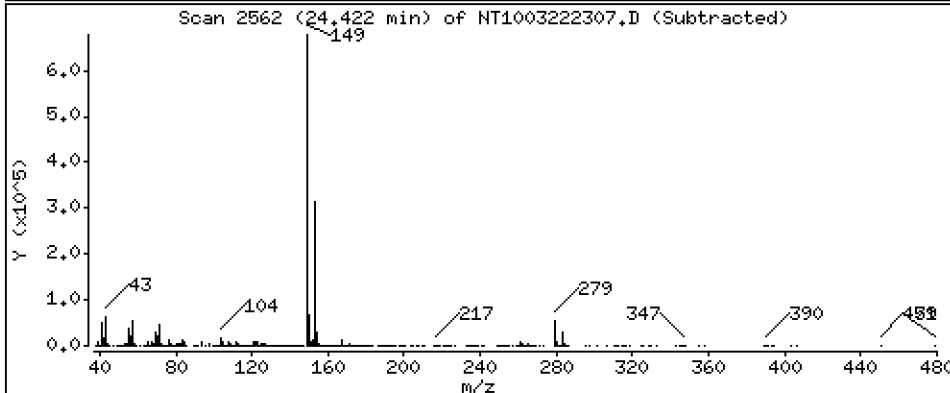
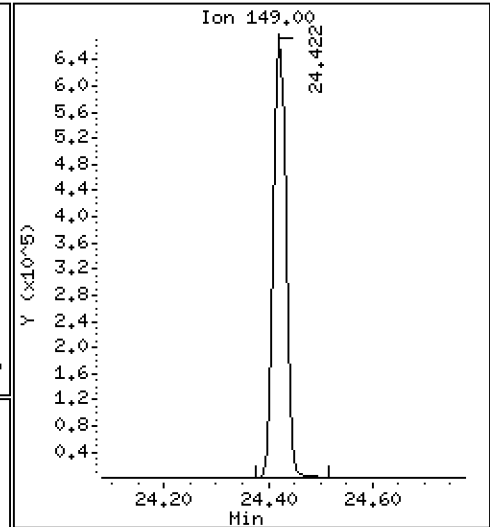
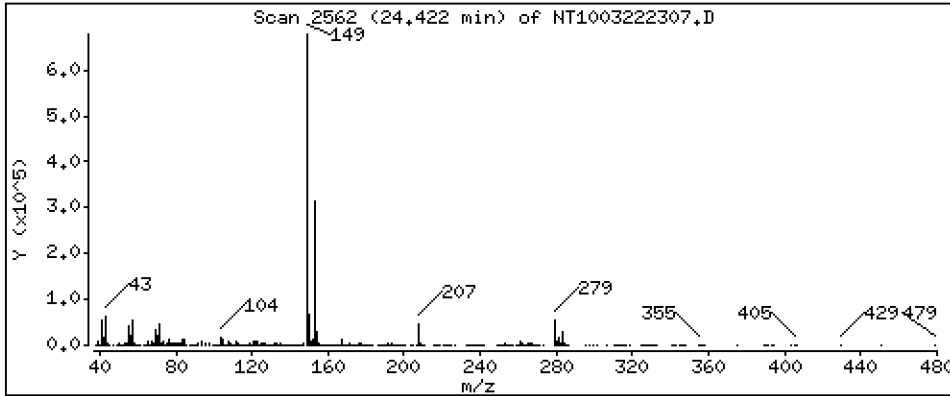
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,752 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

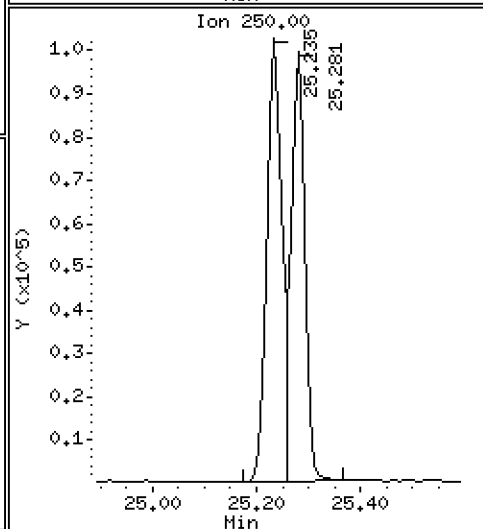
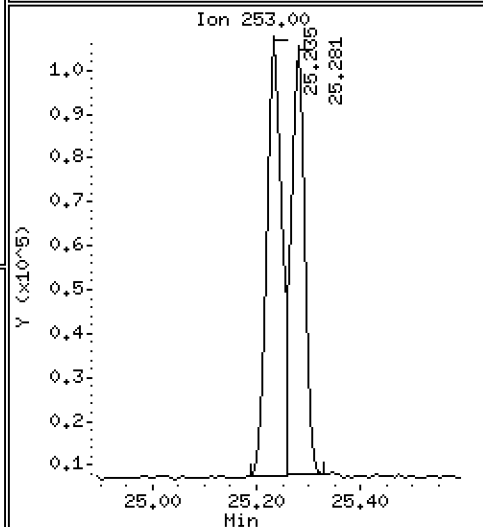
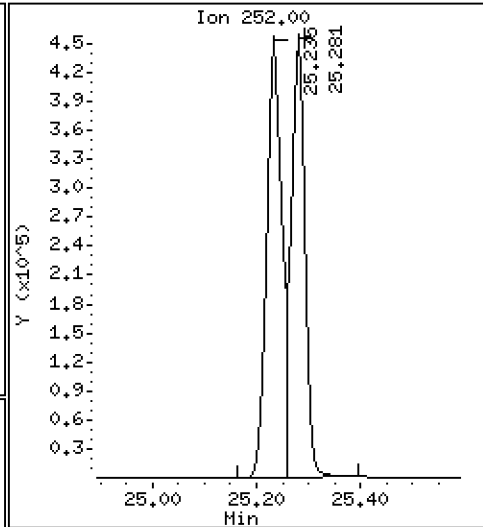
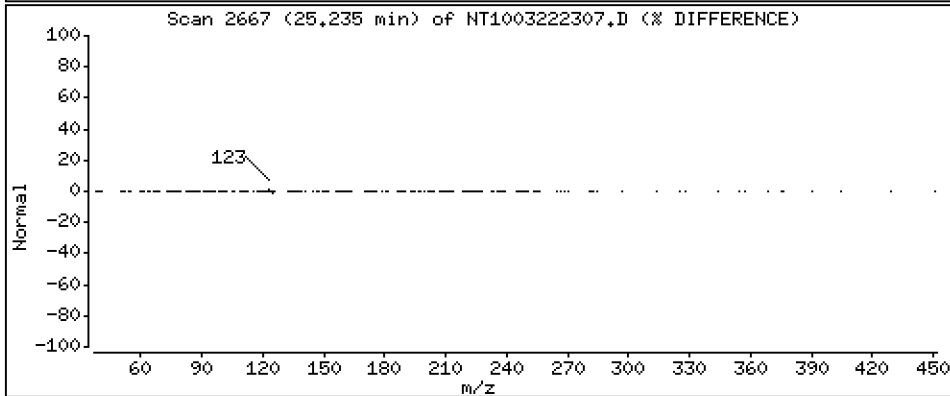
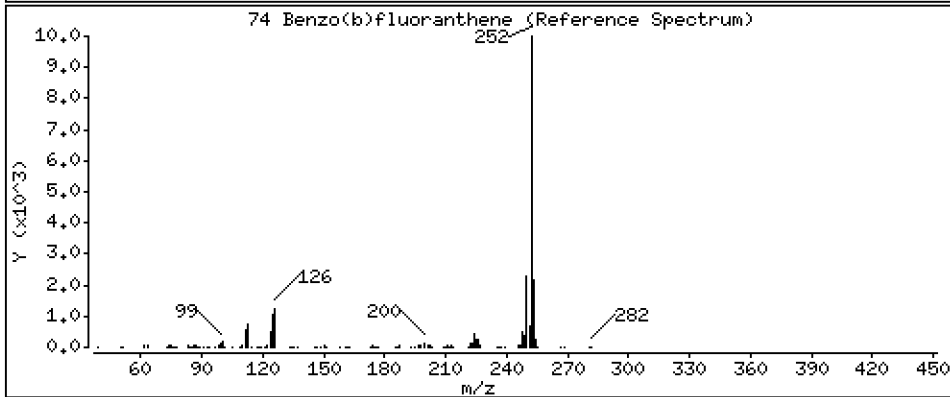
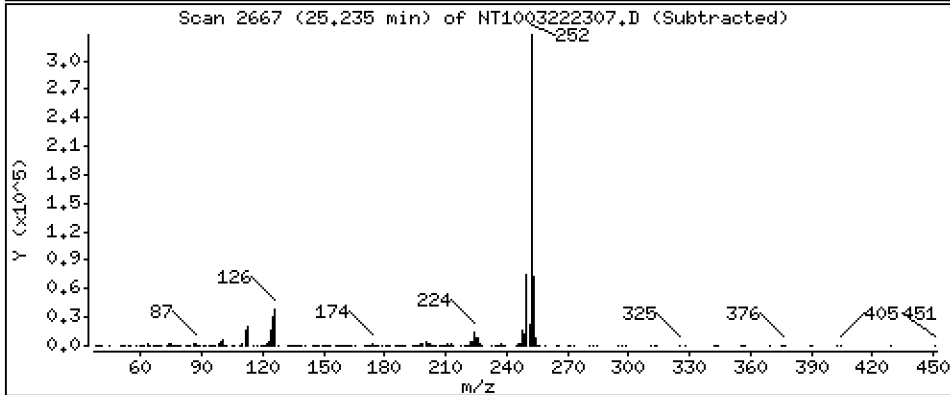
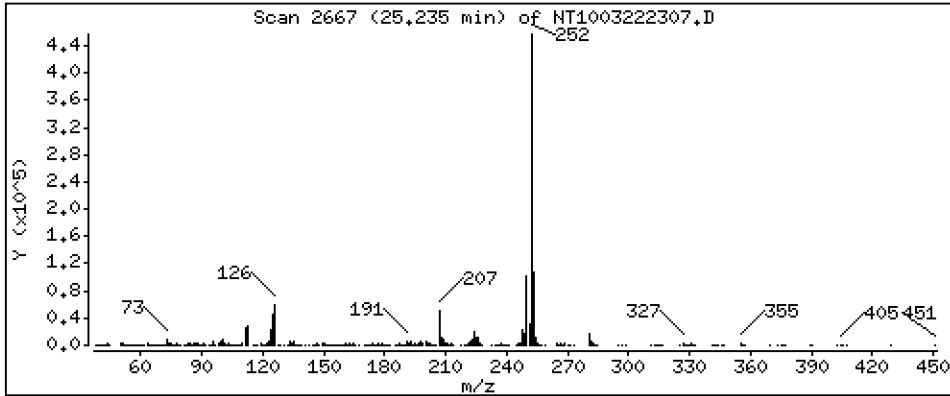
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,892 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

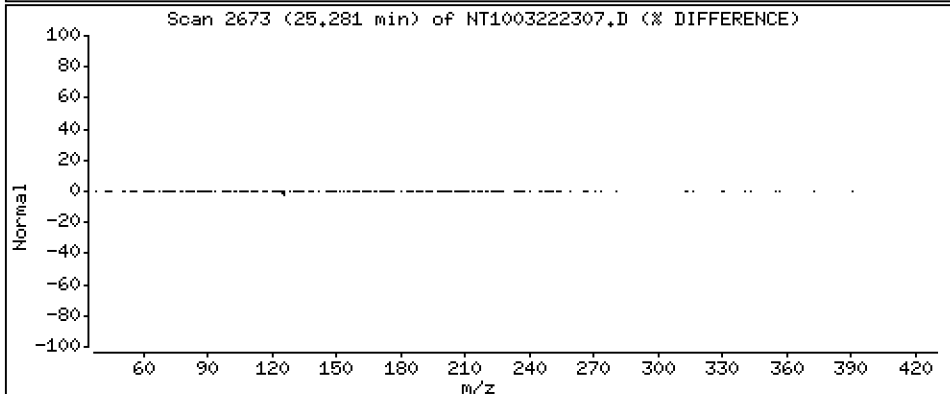
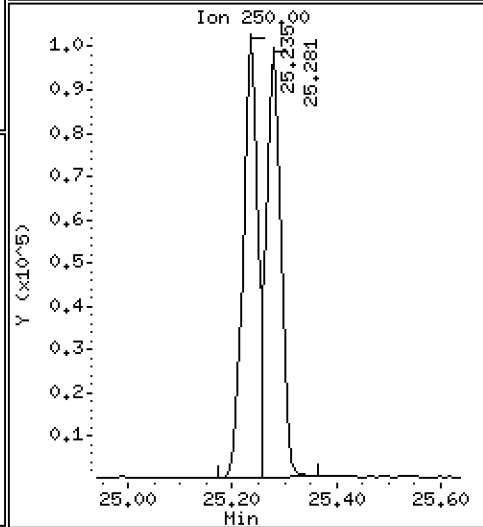
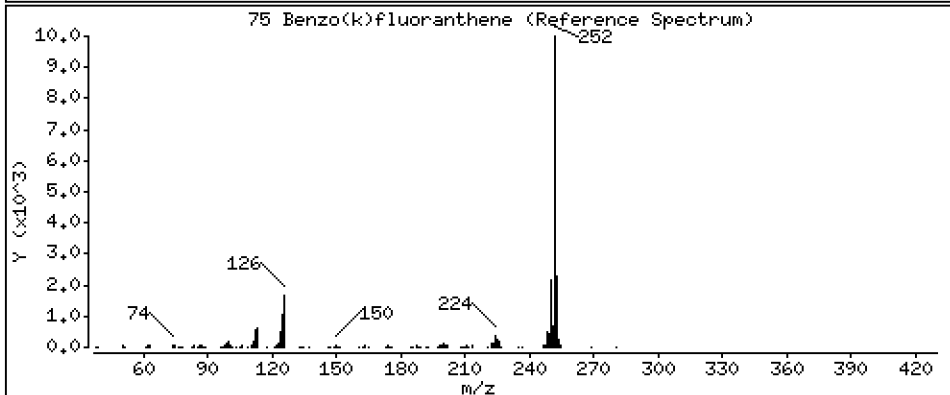
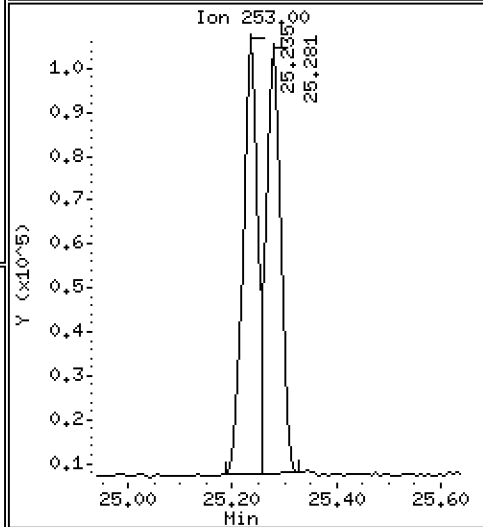
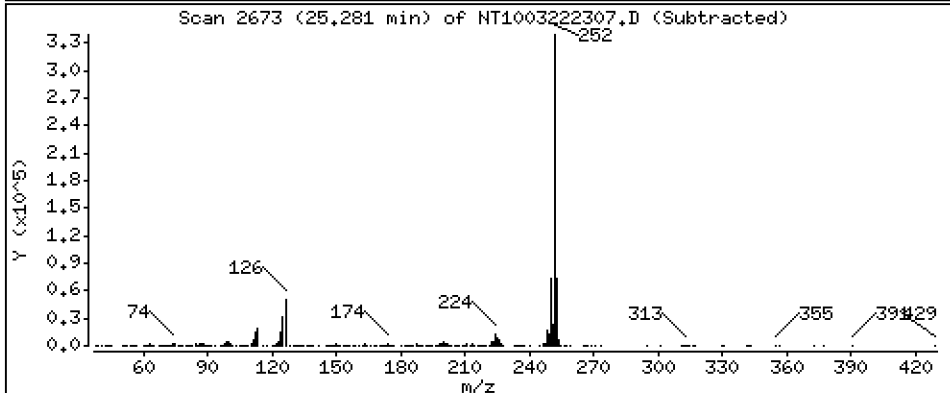
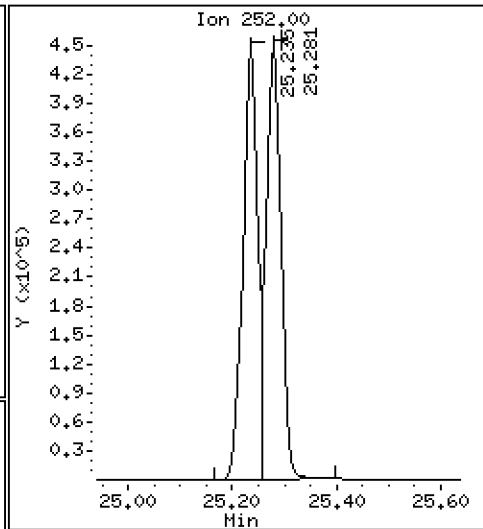
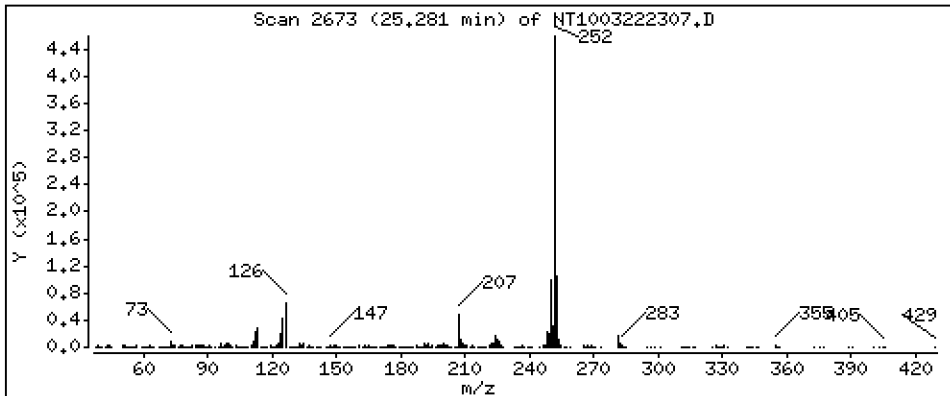
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,727 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

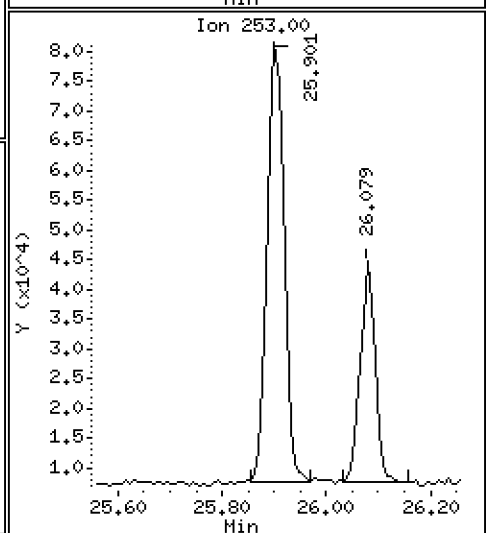
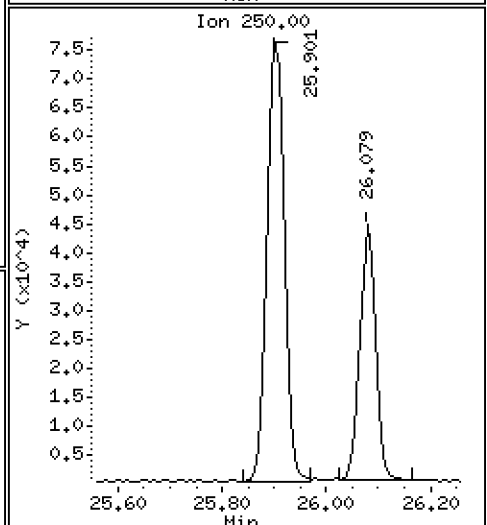
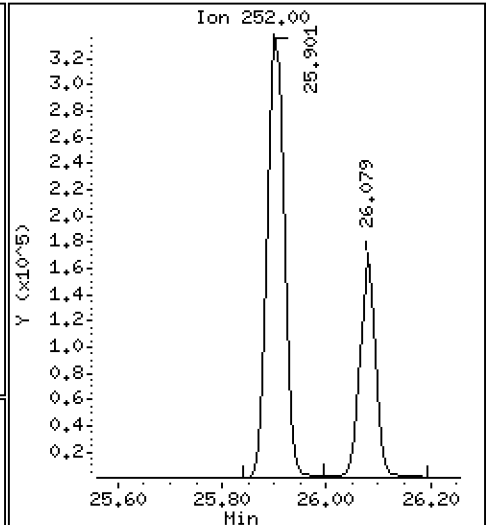
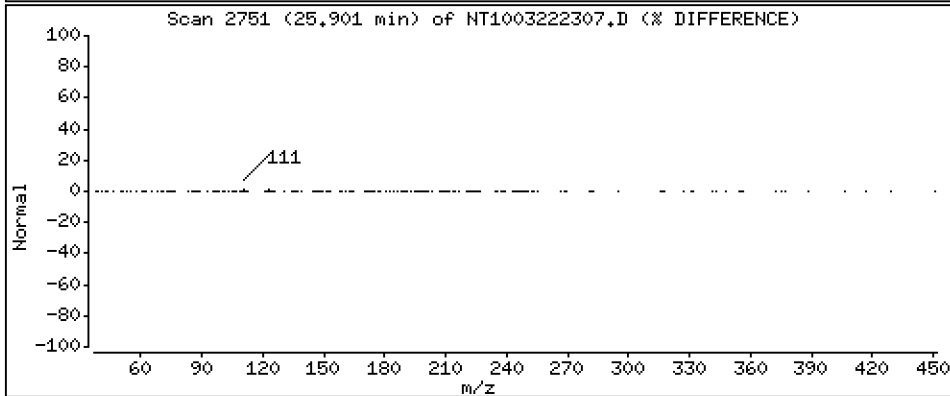
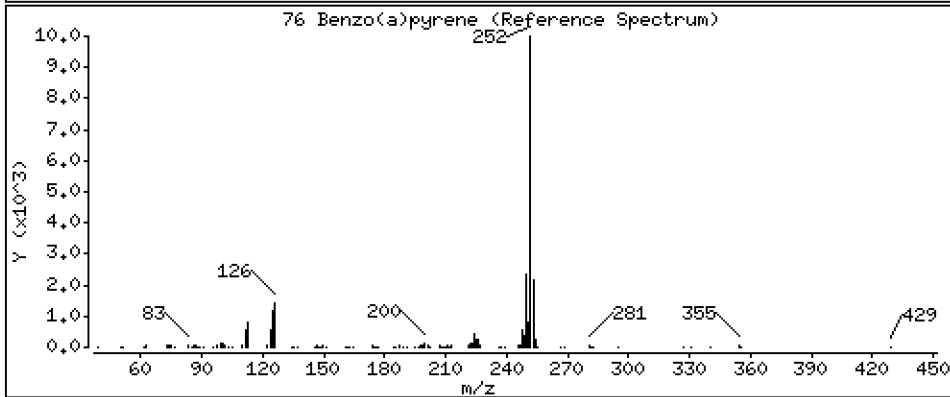
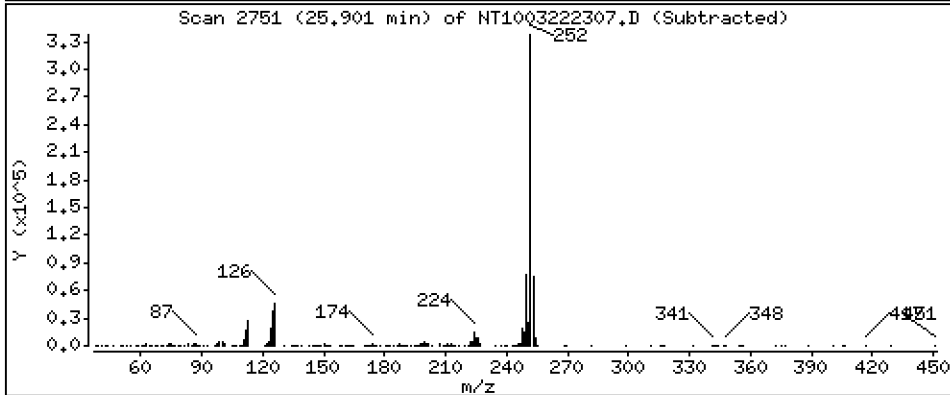
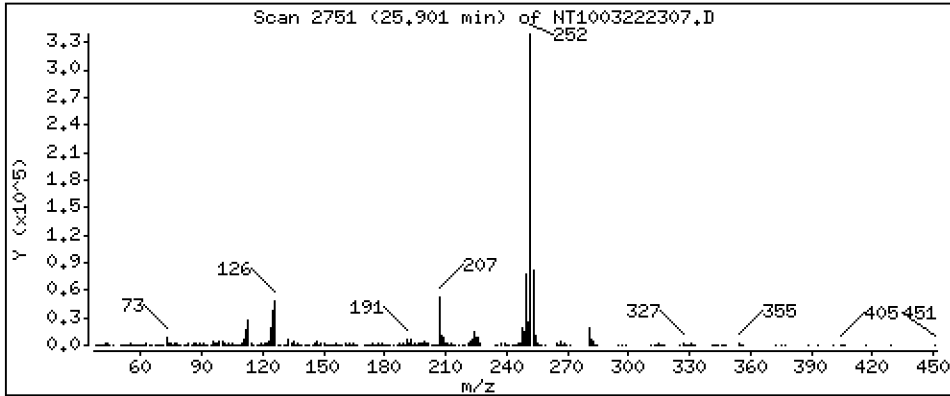
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,438 ug/mL





Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

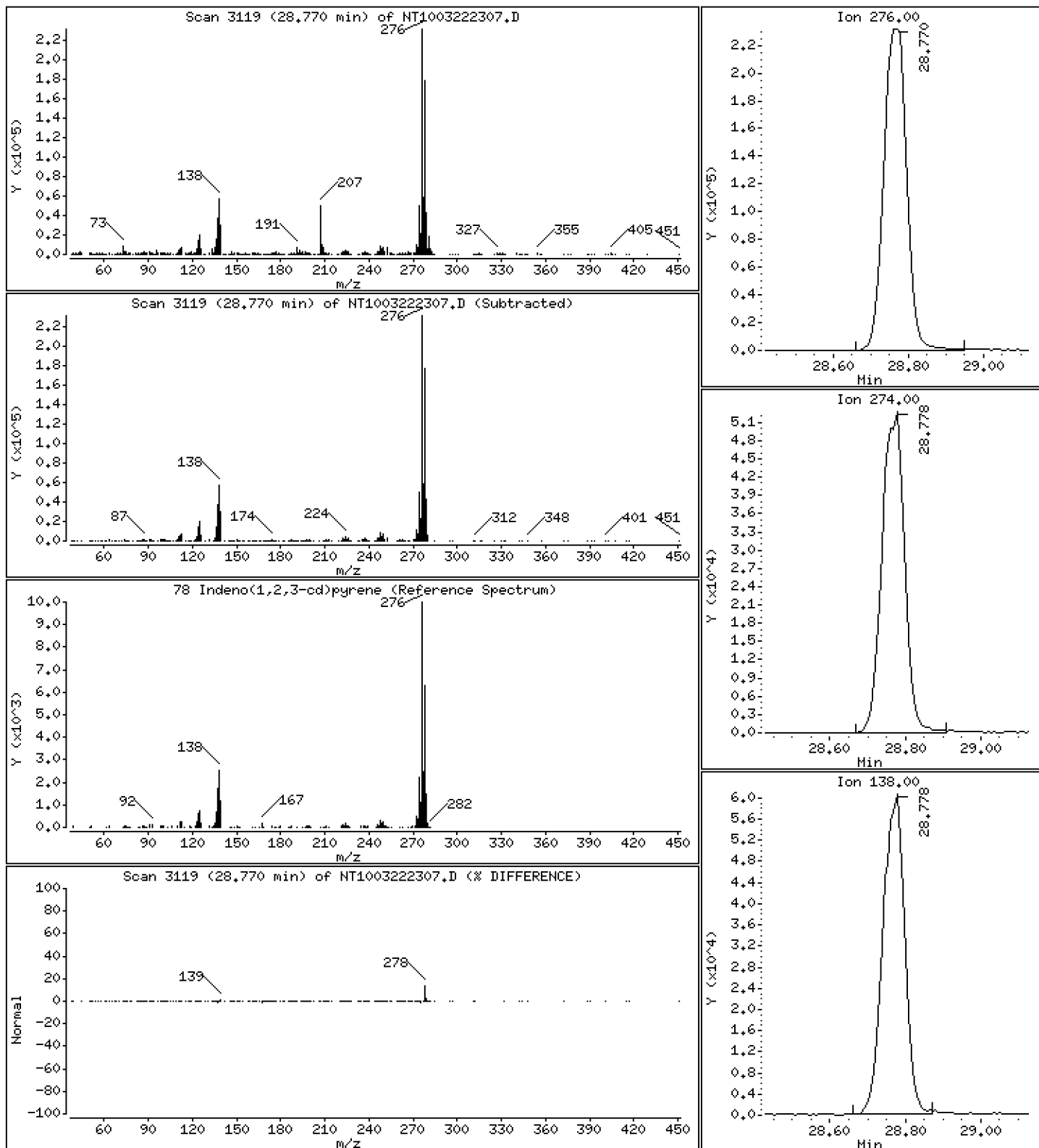
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 4,576 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

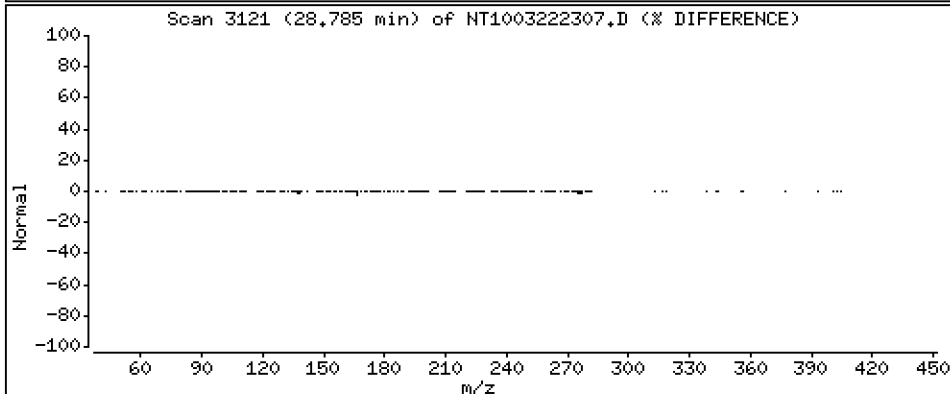
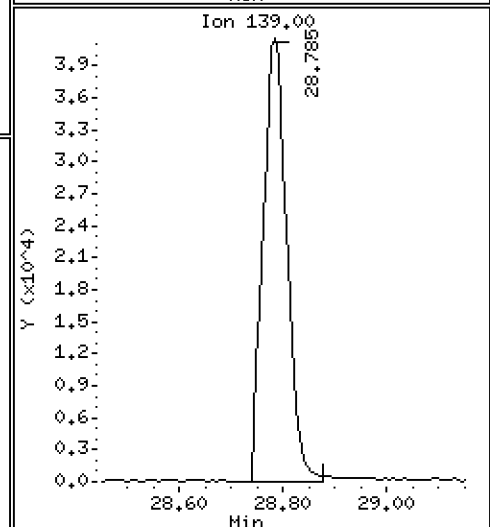
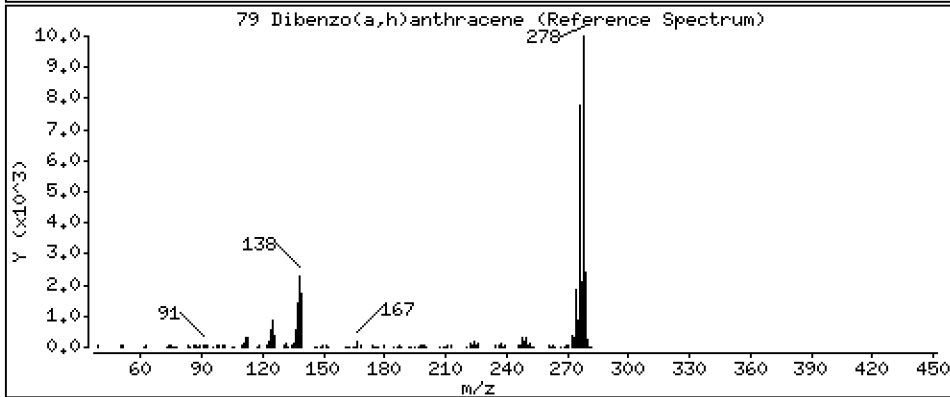
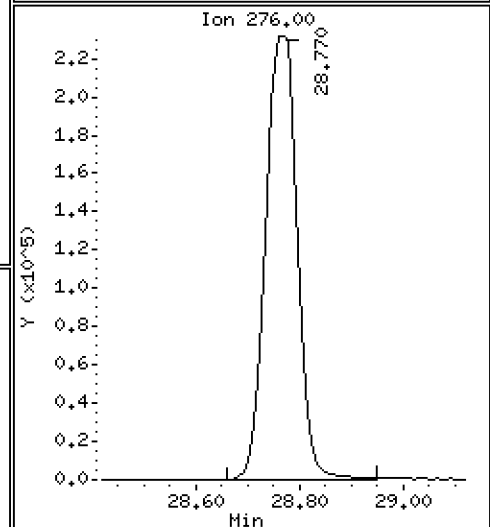
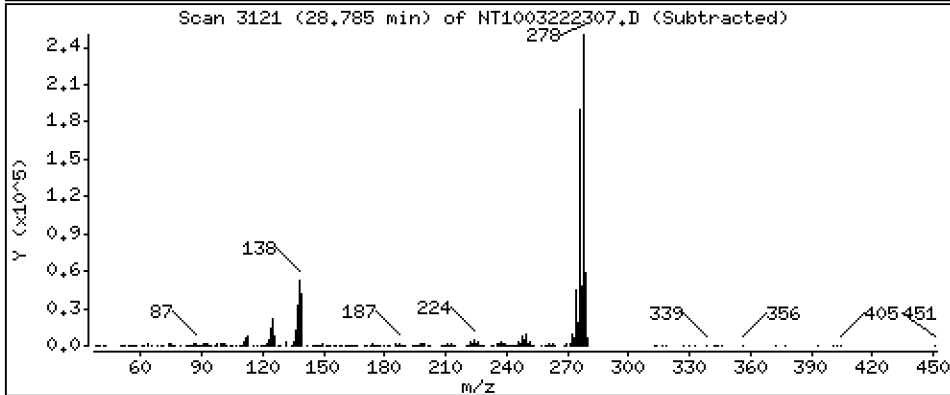
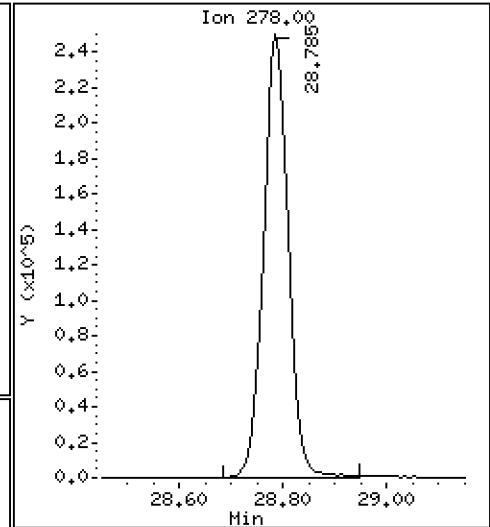
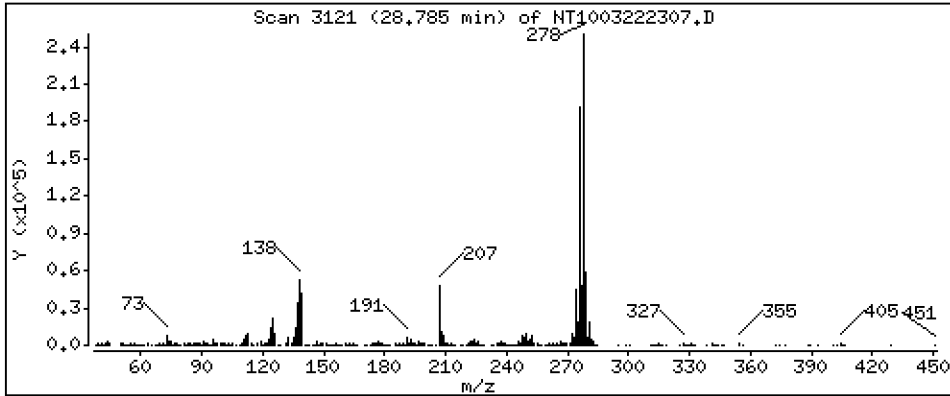
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,651 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

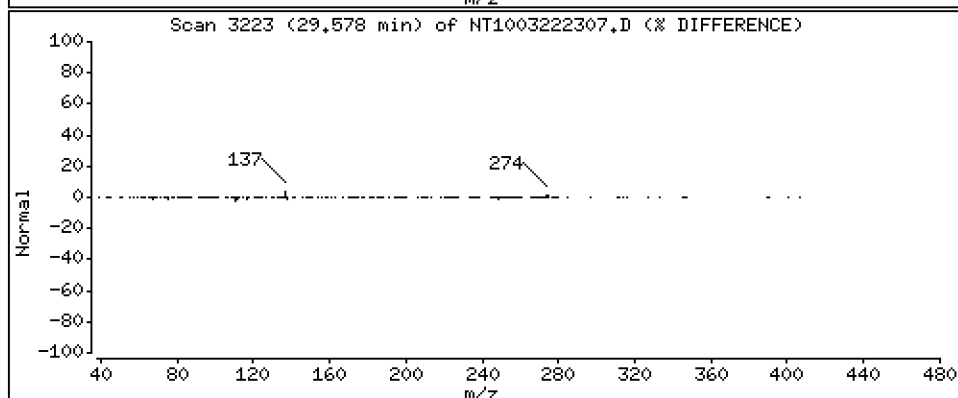
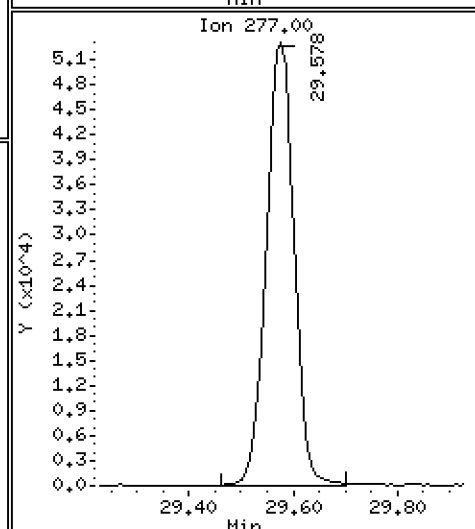
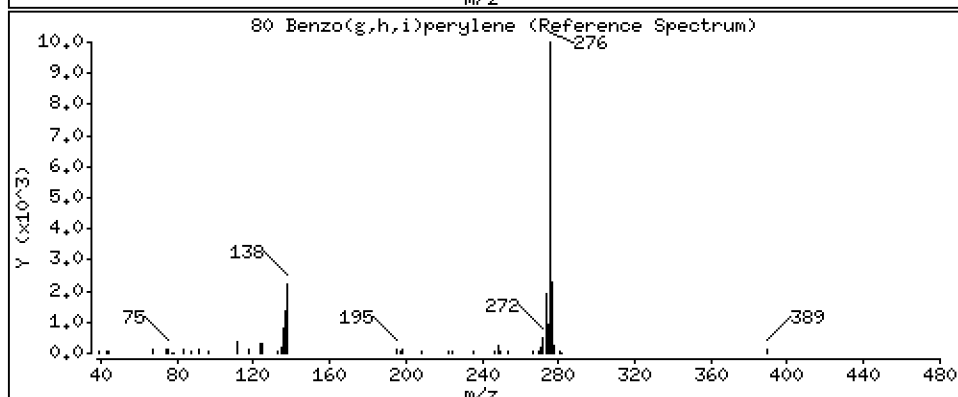
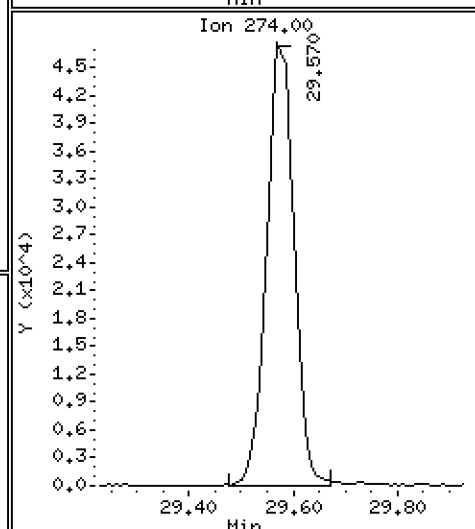
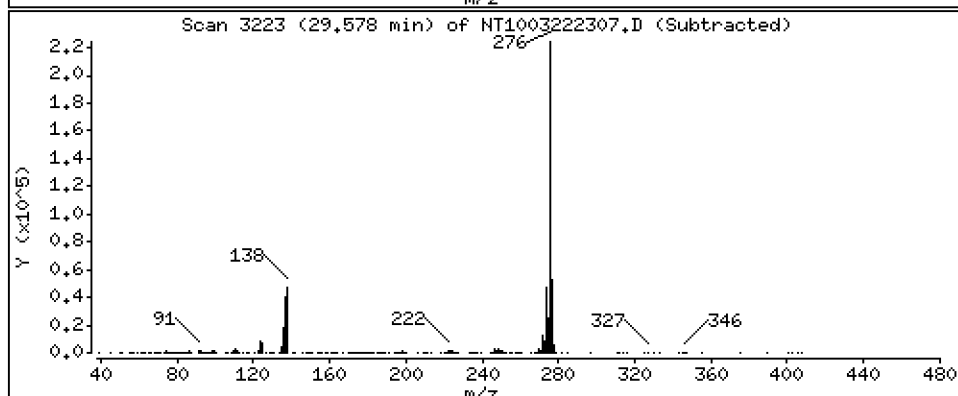
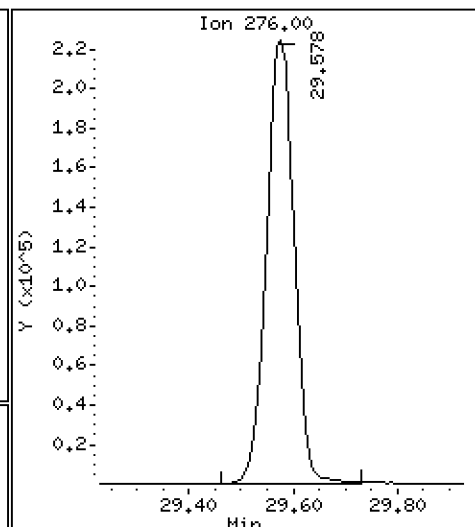
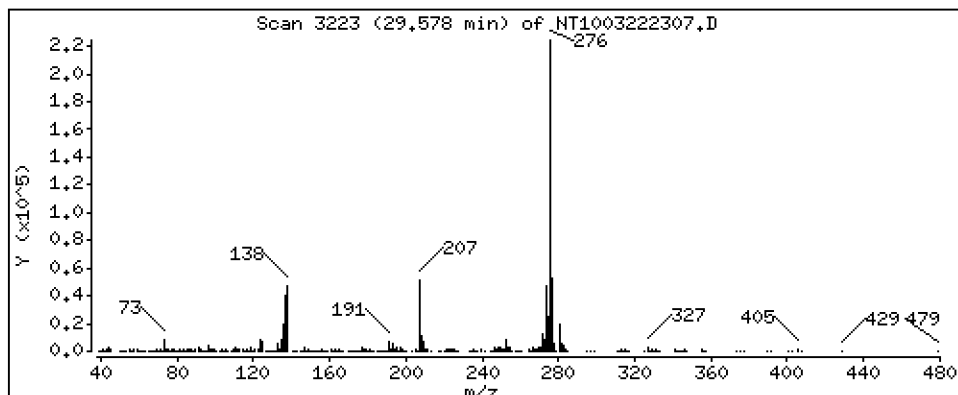
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,460 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

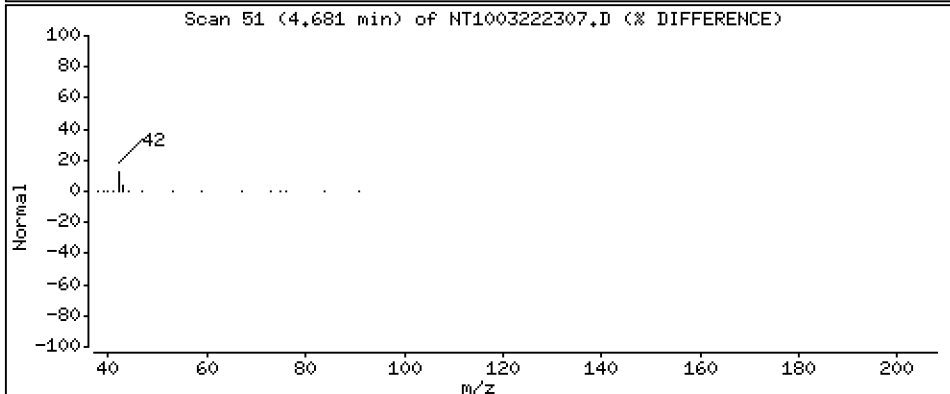
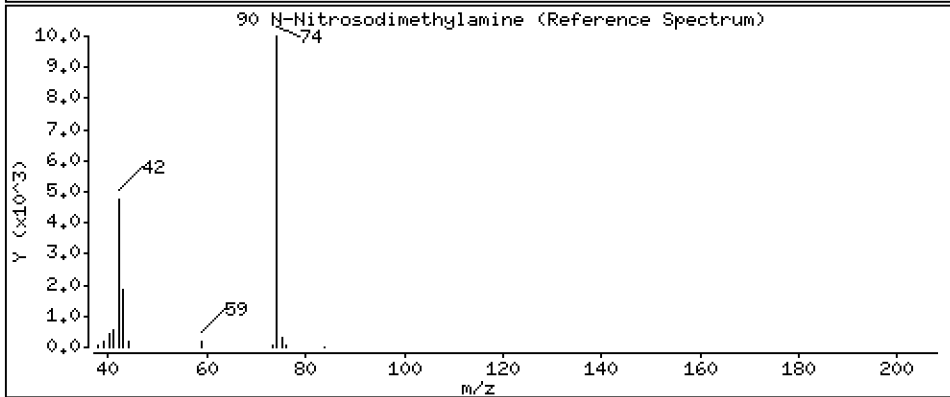
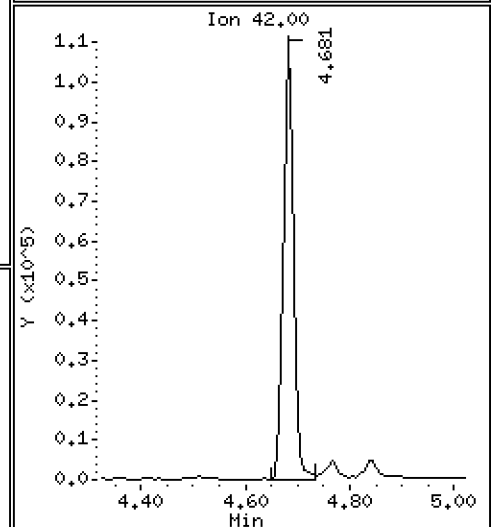
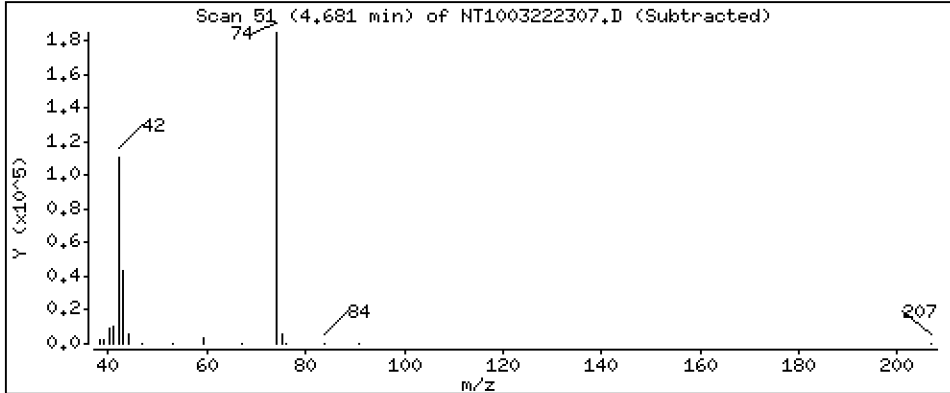
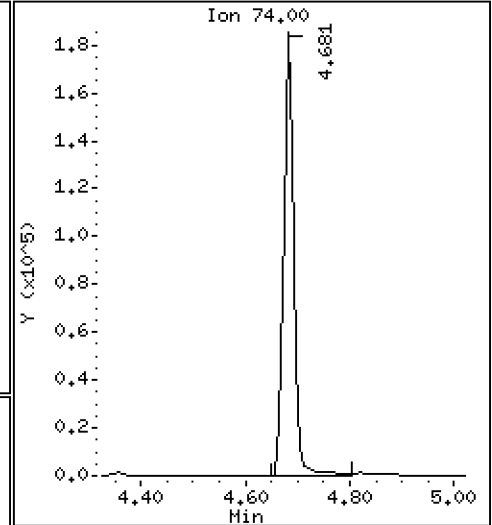
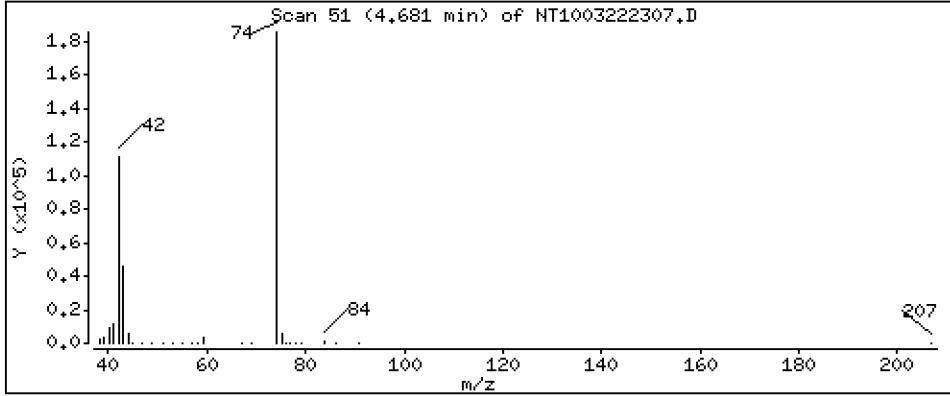
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 8,241 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

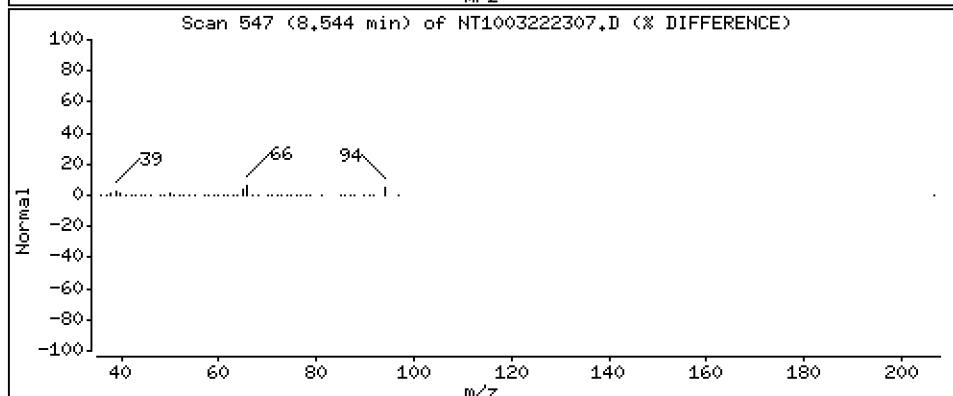
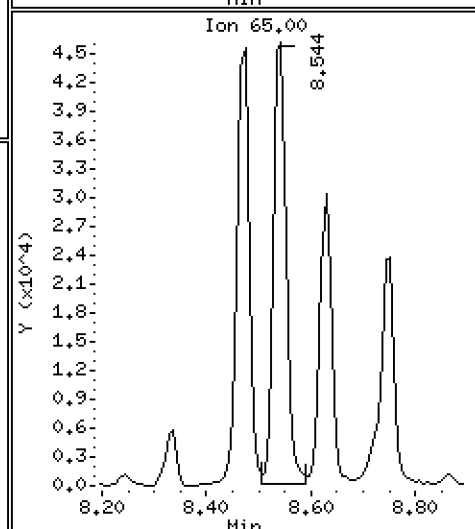
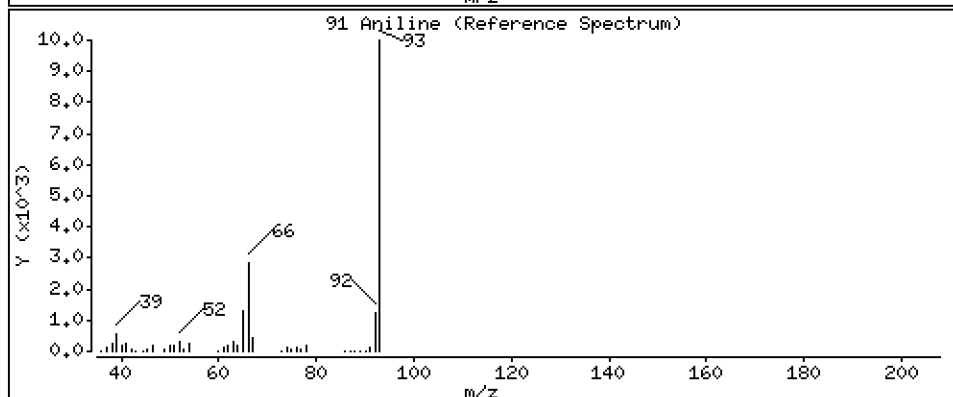
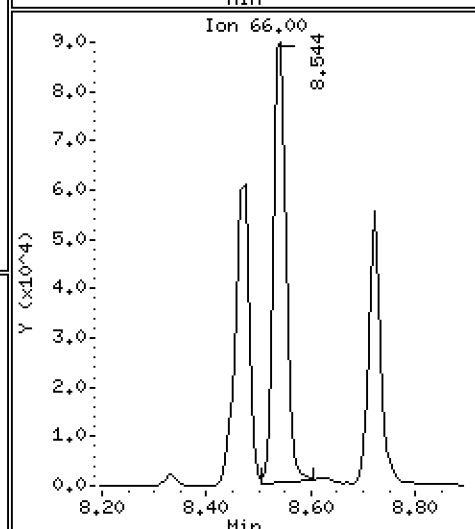
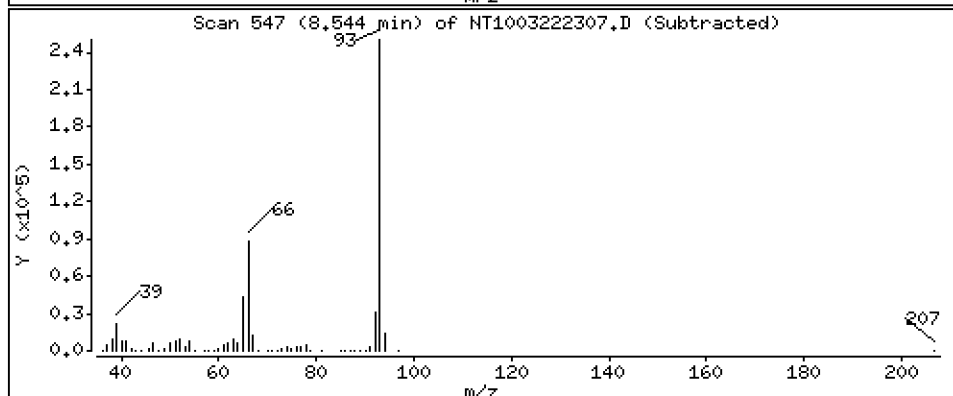
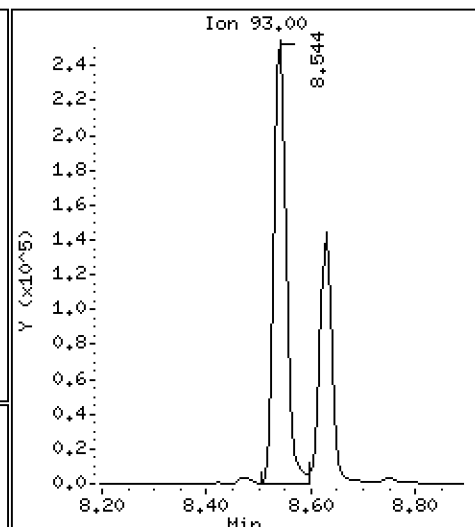
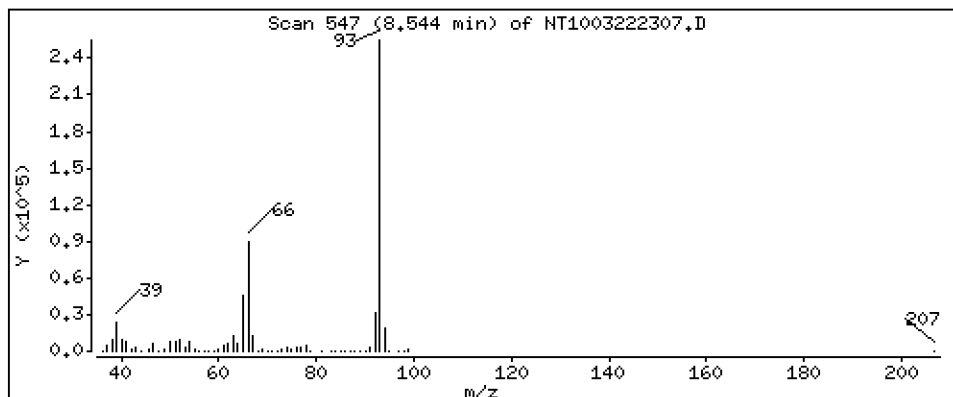
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 6,127 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

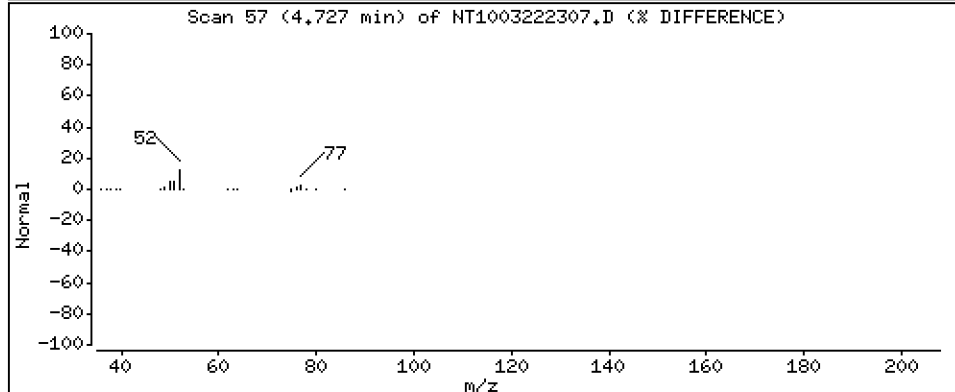
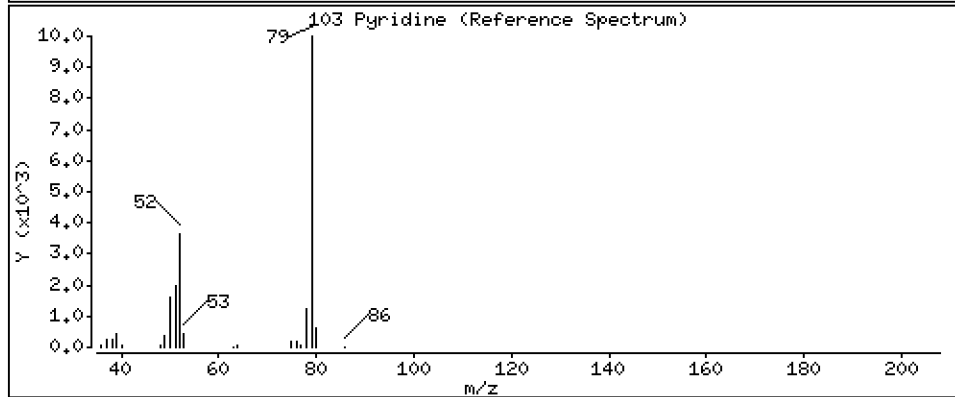
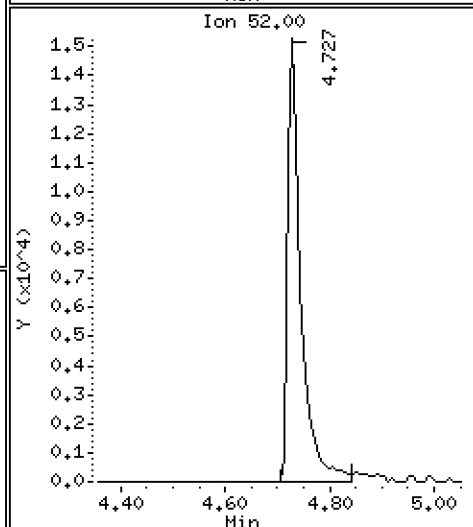
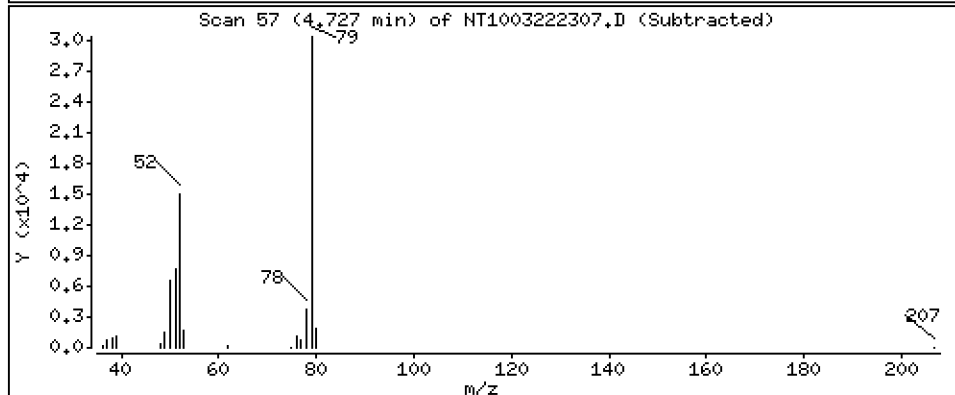
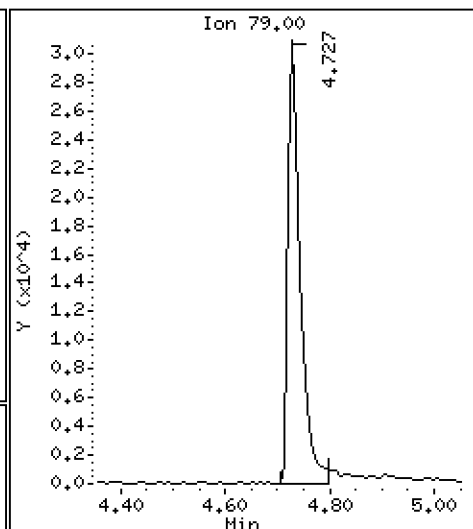
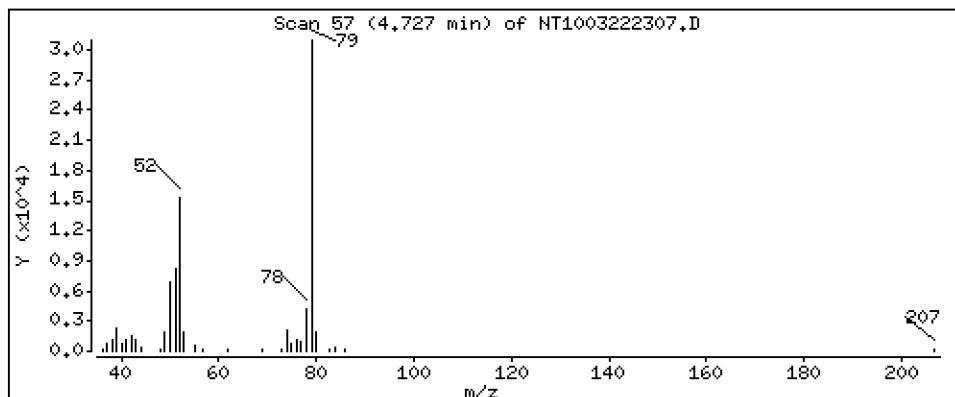
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 1,164 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

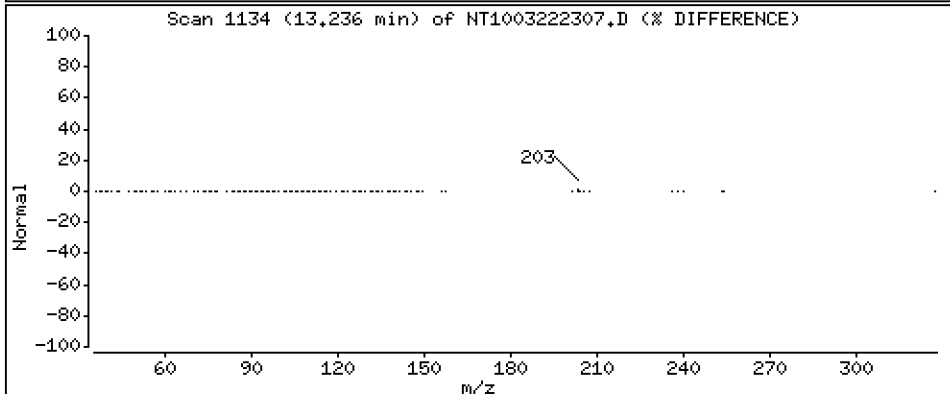
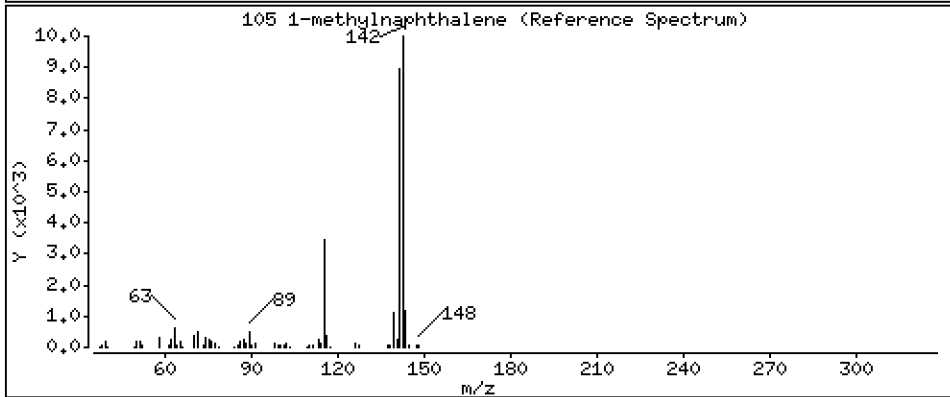
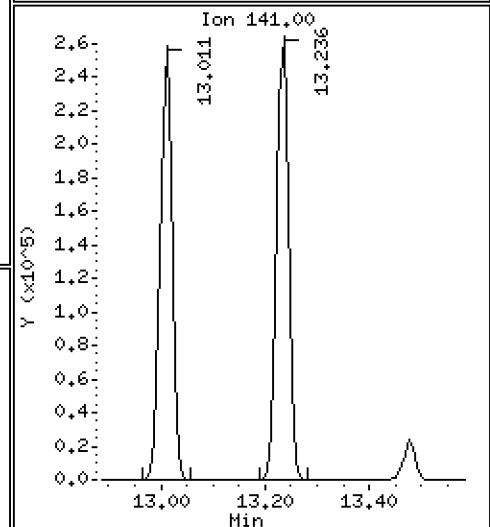
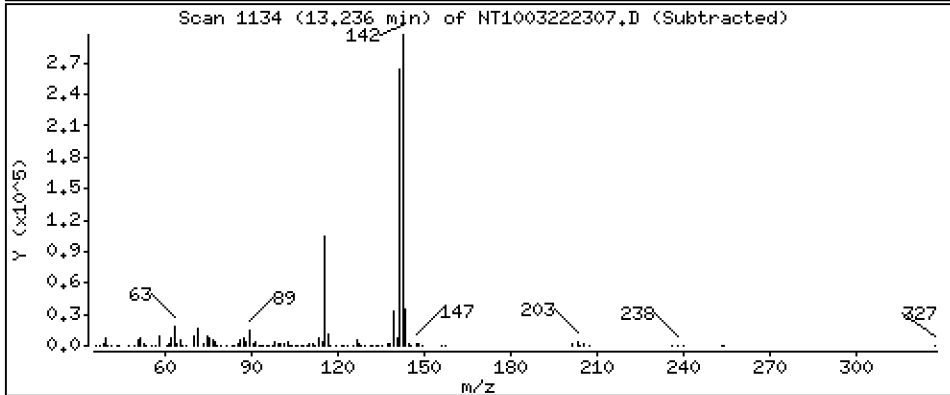
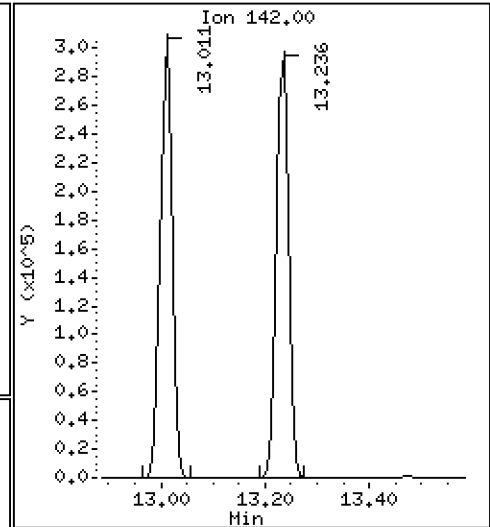
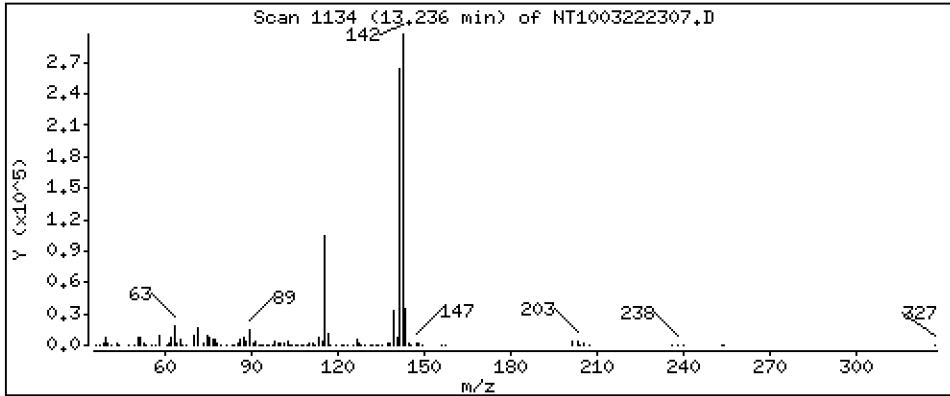
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,541 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

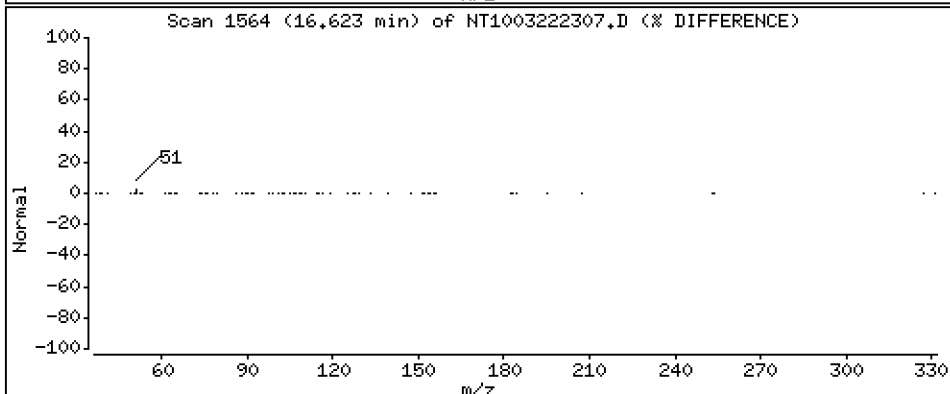
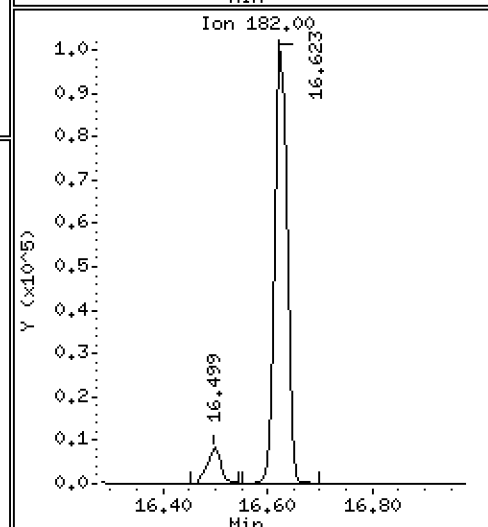
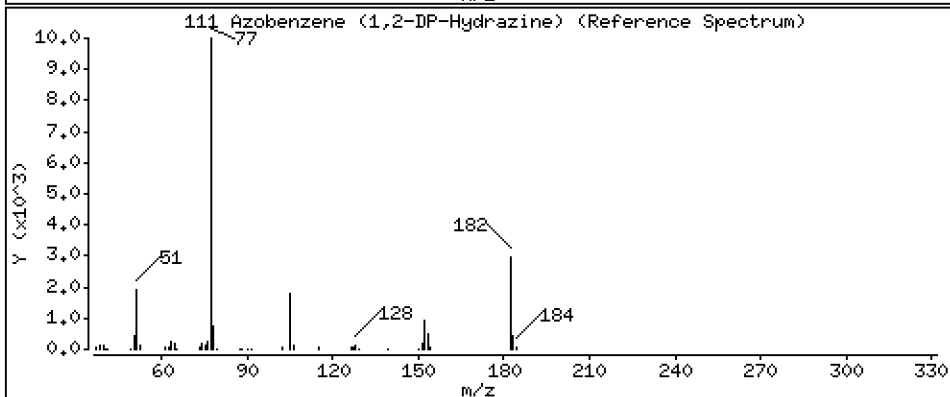
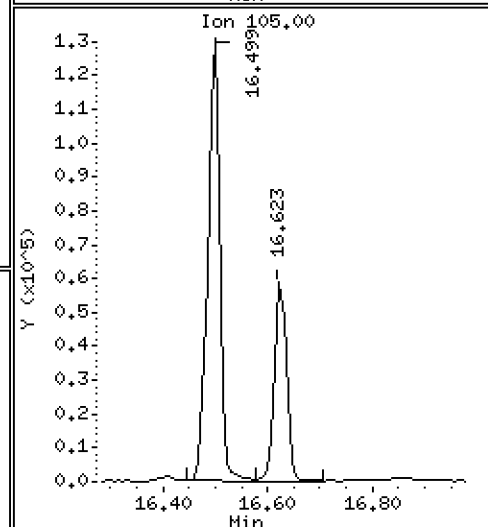
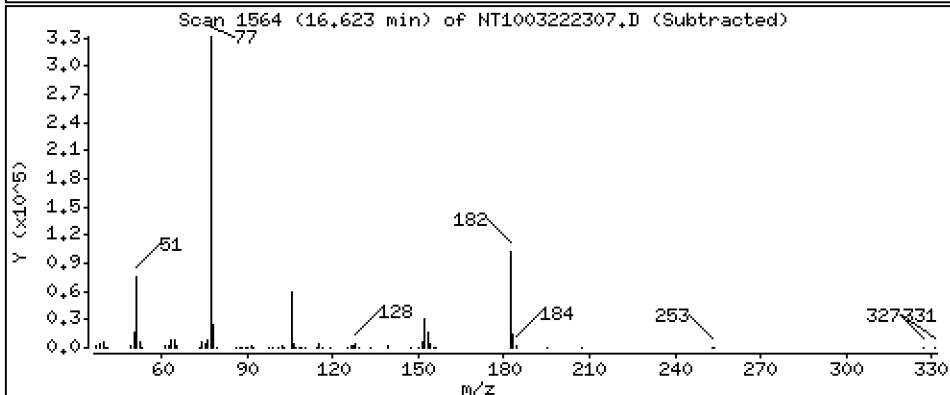
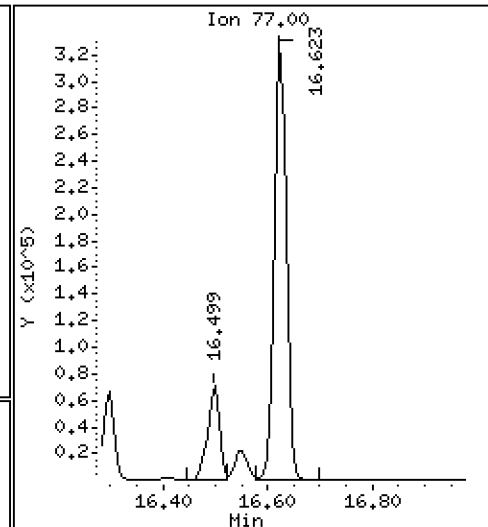
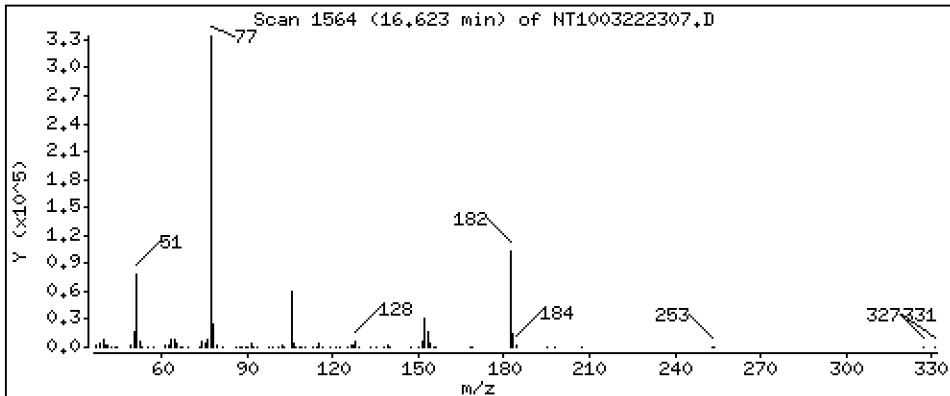
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,190 ug/mL





Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

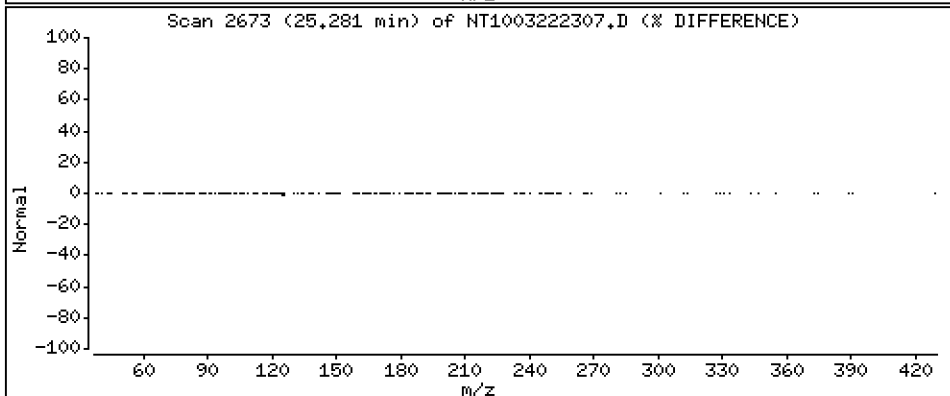
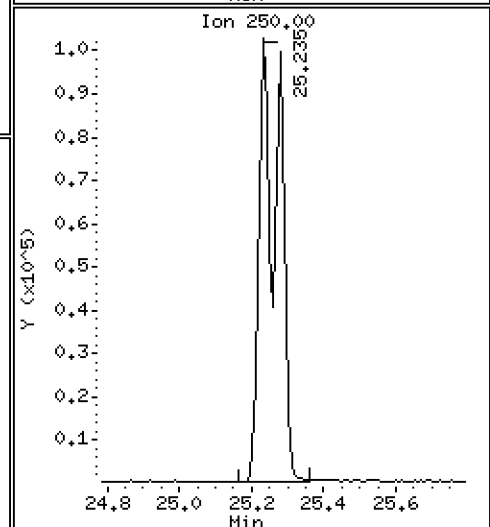
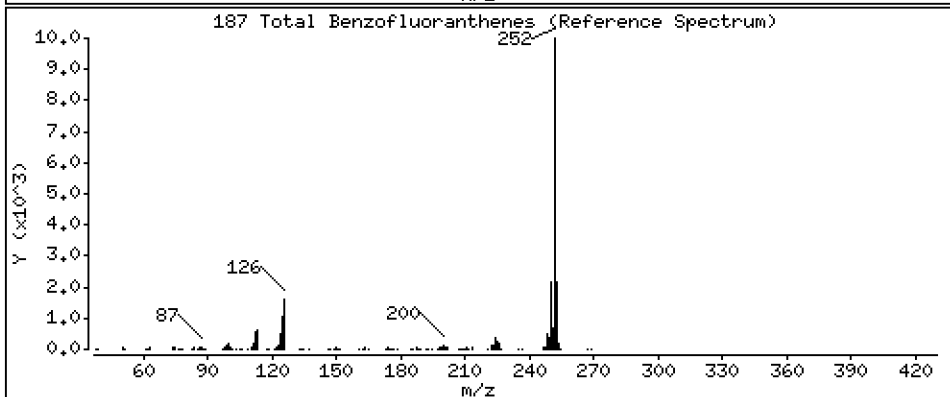
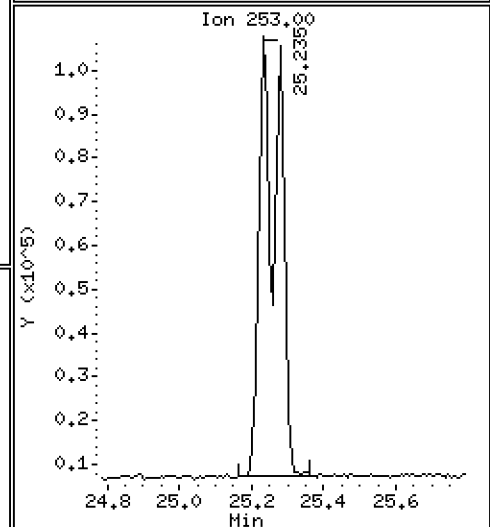
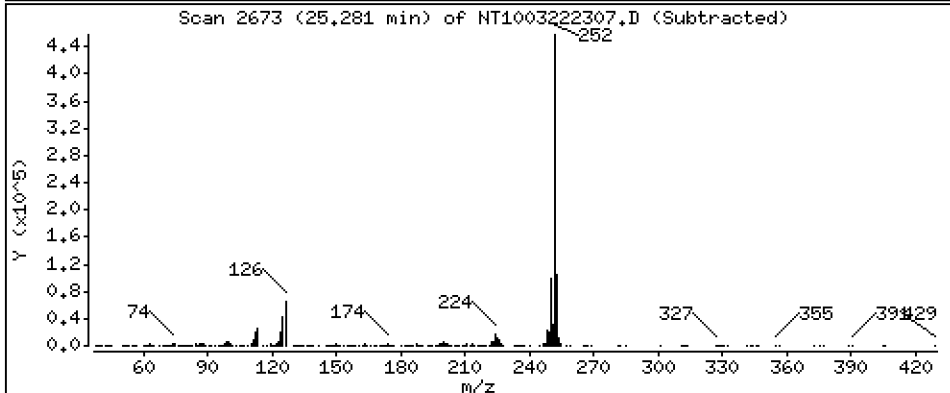
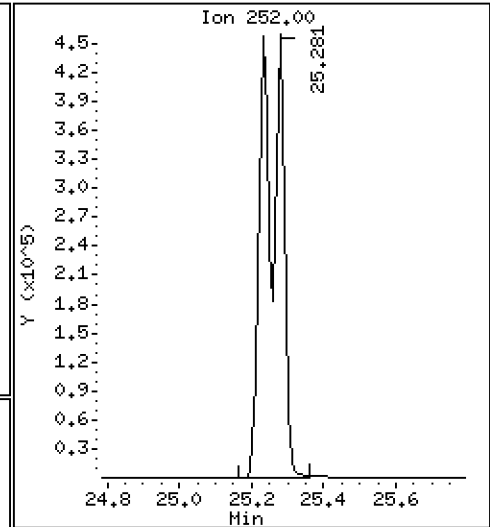
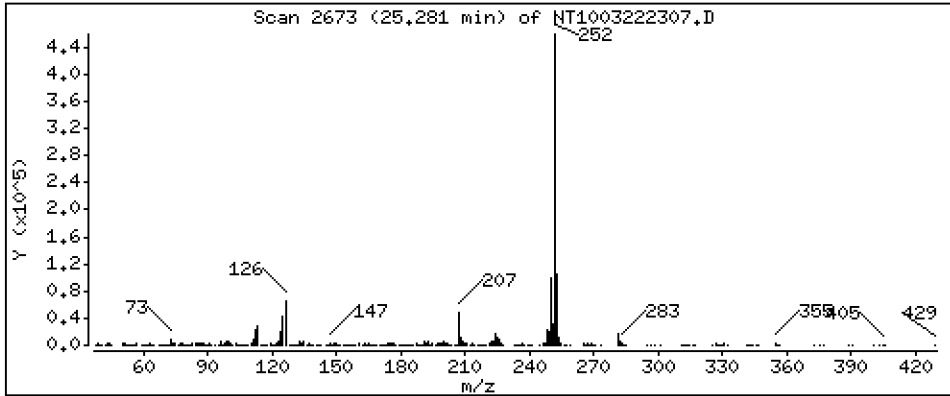
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,586 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

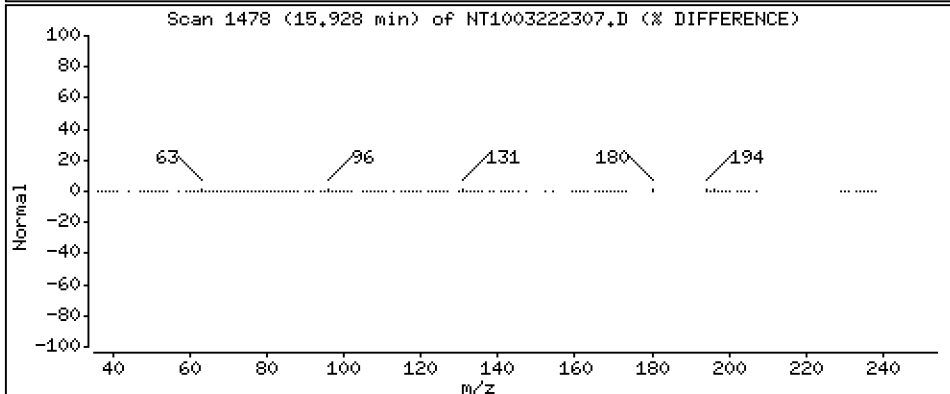
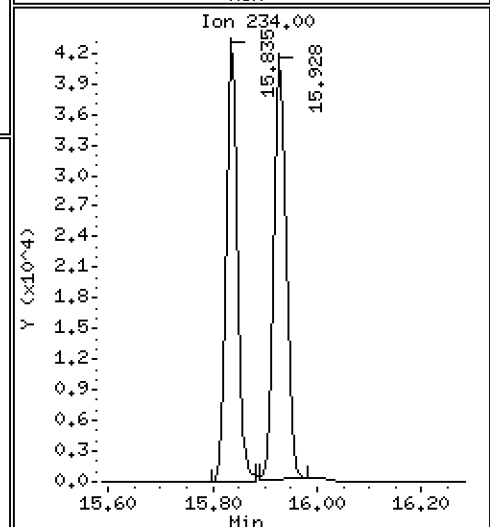
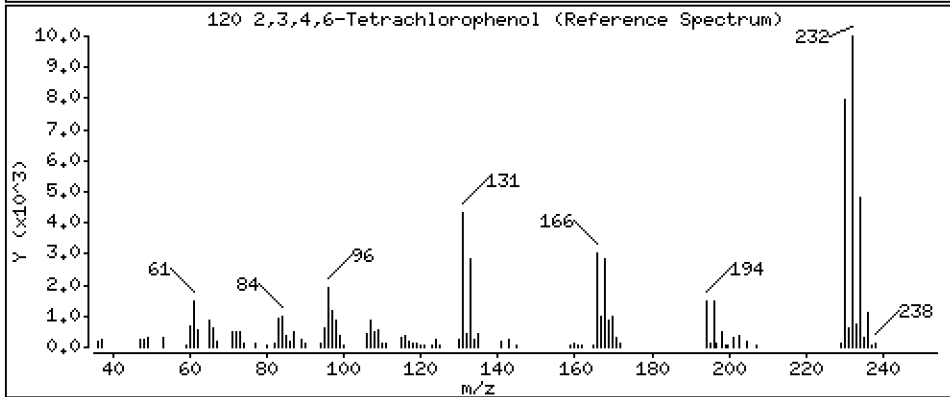
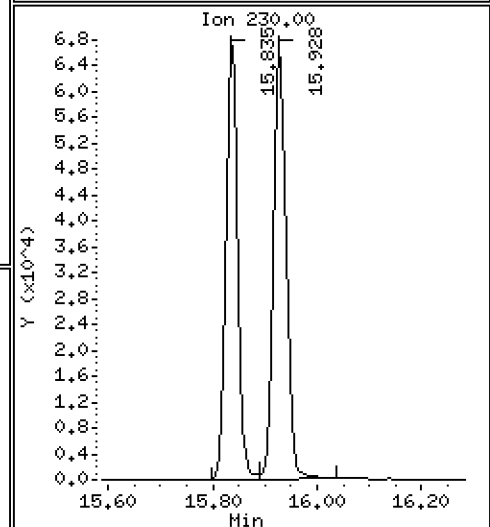
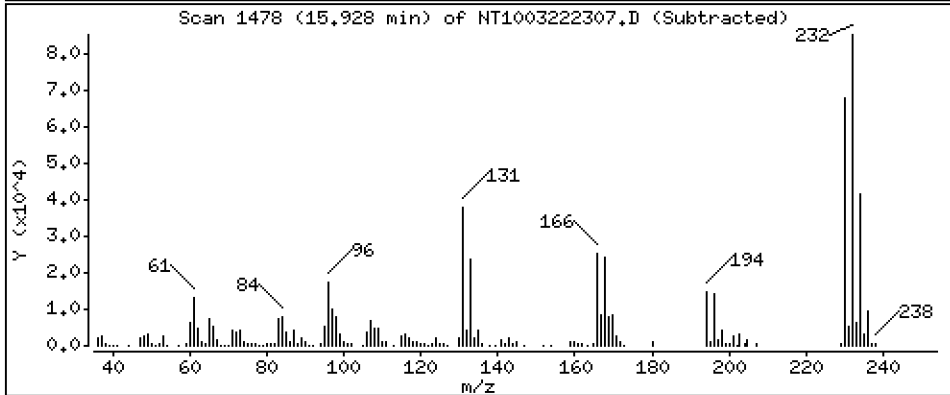
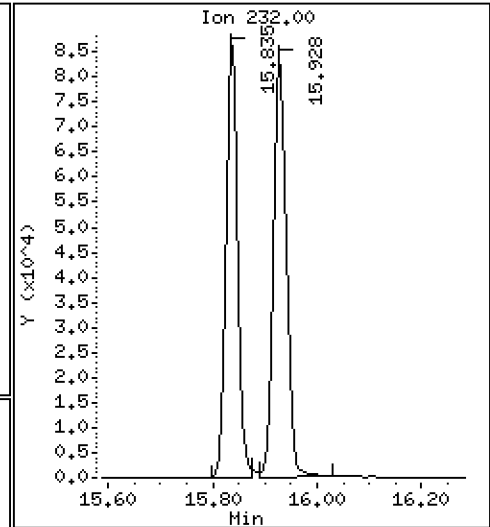
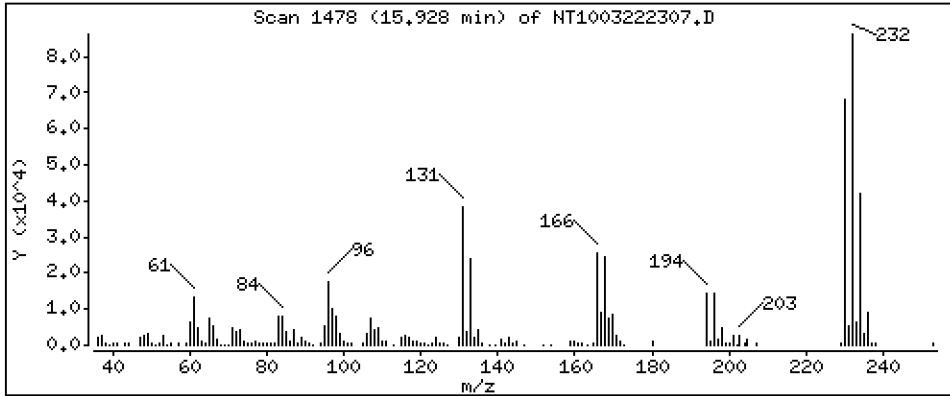
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 4,635 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222307.D  
 Lab Smp Id: BLC0442-BS1  
 Inj Date : 22-MAR-2023 20:54  
 Operator : VTS  
 Smp Info : BLC0442-BS1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 07:55 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |         |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|---------|
|                                 |       |     |        |        |         |          | ON-COLUMN      | FINAL   |
|                                 | MASS  |     |        |        |         |          | (ug/mL)        | (ug/mL) |
| \$ 1 2-Fluorophenol             | 112   |     | 6.859  | 6.851  | (0.755) | 279336   | 5.96918        | 5.969   |
| \$ 2 Phenol-d5                  | 99    |     | 8.450  | 8.450  | (0.930) | 384689   | 6.26632        | 6.266   |
| 3 Phenol                        | 94    |     | 8.474  | 8.473  | (0.933) | 247059   | 3.87278        | 3.873   |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.721  | 8.721  | (0.960) | 345908   | 6.59845        | 6.598   |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.628  | 8.628  | (0.950) | 215192   | 4.54813        | 4.548   |
| 6 2-Chlorophenol                | 128   |     | 8.752  | 8.752  | (0.963) | 222328   | 4.07205        | 4.072   |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.015  | 9.022  | (0.992) | 238220   | 4.12703        | 4.127   |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.084  | 9.084  | (1.000) | 154744   | 4.00000        |         |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.115  | 9.115  | (1.003) | 238629   | 4.27953        | 4.280   |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.441  | 9.449  | (1.039) | 155478   | 4.12984        | 4.130   |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.465  | 9.472  | (1.042) | 233166   | 4.24892        | 4.249   |
| 11 Benzyl alcohol               | 108   |     | 9.356  | 9.356  | (1.030) | 132627   | 4.42934        | 4.429   |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.659  | 9.659  | (1.063) | 77433    | 4.80482        | 4.805   |
| 13 2-Methylphenol               | 108   |     | 9.589  | 9.589  | (1.056) | 169044   | 3.63507        | 3.635   |
| 17 Hexachloroethane             | 117   |     | 10.062 | 10.062 | (1.108) | 96137    | 4.20219        | 4.202   |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.915  | 9.923  | (1.091) | 142321   | 3.87587        | 3.876   |
| 15 4-Methylphenol               | 108   |     | 9.861  | 9.853  | (1.085) | 198385   | 4.04877        | 4.049   |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.179 | 10.187 | (0.880) | 244841   | 4.23452        | 4.235   |
| 19 Nitrobenzene                 | 77    |     | 10.218 | 10.218 | (0.883) | 239519   | 4.22112        | 4.221   |
| 20 Isophorone                   | 82    |     | 10.668 | 10.668 | (0.922) | 426786   | 5.87945        | 5.879   |
| 21 2-Nitrophenol                | 139   |     | 10.841 | 10.850 | (0.937) | 137463   | 4.95583        | 4.956   |
| 22 2,4-Dimethylphenol           | 107   |     | 10.901 | 10.901 | (0.942) | 287021   | 5.50706        | 5.507   |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.096 | 11.096 | (0.959) | 243545   | 5.02278        | 5.023   |
| 24 Benzoic acid                 | 105   |     | 11.138 | 11.104 | (0.963) | 899921   | 28.9531        | 28.95   |
| 25 2,4-Dichlorophenol           | 162   |     | 11.300 | 11.300 | (0.976) | 632403   | 15.1628        | 15.16   |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.487 | 11.487 | (0.993) | 208174   | 4.25209        | 4.252   |
| * 27 Naphthalene-d8             | 136   |     | 11.572 | 11.572 | (1.000) | 572840   | 4.00000        |         |
| 28 Naphthalene                  | 128   |     | 11.611 | 11.611 | (1.003) | 642463   | 4.23359        | 4.234   |
| 29 4-Chloroaniline              | 127   |     | 11.742 | 11.750 | (1.015) | 474925   | 8.02213        | 8.022   |
| 30 Hexachlorobutadiene          | 225   |     | 11.974 | 11.974 | (1.035) | 133788   | 4.66378        | 4.664   |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.709 | 12.709 | (1.098) | 618430   | 13.6971        | 13.70   |
| 32 2-Methylnaphthalene          | 142   |     | 13.011 | 13.011 | (1.124) | 474039   | 4.32855        | 4.329   |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.475 | 13.475 | (0.887) | 291964   | 9.64593        | 9.646   |

| Compounds                         | QUANT | SIG |                        |        |         |         |          | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|------------------------|--------|---------|---------|----------|----------------------|------------------|
|                                   |       |     | MASS                   | RT     | EXP RT  | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     | 13.638                 | 13.637 | (0.898) | 448752  | 13.8827  | 13.88                |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     | 13.707                 | 13.707 | (0.902) | 488880  | 13.6114  | 13.61                |                  |
| § 36 2-Fluorobiphenyl             | 172   |     | 13.792                 | 13.800 | (0.908) | 561939  | 4.34359  | 4.344                |                  |
| 37 2-Chloronaphthalene            | 162   |     | 14.009                 | 14.009 | (0.922) | 446758  | 4.26484  | 4.265                |                  |
| 38 2-Nitroaniline                 | 65    |     | 14.272                 | 14.272 | (0.939) | 371102  | 12.6116  | 12.61                |                  |
| 39 Dimethylphthalate              | 163   |     | 14.706                 | 14.706 | (0.968) | 517286  | 4.86882  | 4.869                |                  |
| 40 Acenaphthylene                 | 152   |     | 14.884                 | 14.884 | (0.980) | 677221  | 4.14884  | 4.149                |                  |
| 41 2,6-Dinitrotoluene             | 165   |     | 14.845                 | 14.845 | (0.977) | 343703  | 14.9753  | 14.98                |                  |
| * 42 Acenaphthene-d10             | 164   |     | 15.193                 | 15.193 | (1.000) | 327050  | 4.00000  |                      |                  |
| 43 3-Nitroaniline                 | 138   |     | 15.131                 | 15.131 | (0.996) | 289928  | 11.1919  | 11.19                |                  |
| 44 Acenaphthene                   | 153   |     | 15.263                 | 15.263 | (1.005) | 434885  | 4.31256  | 4.313                |                  |
| 45 2,4-Dinitrophenol              | 184   |     | 15.340                 | 15.340 | (1.010) | 423676  | 28.7942  | 28.79                |                  |
| 46 Dibenzofuran                   | 168   |     | 15.587                 | 15.595 | (1.026) | 649528  | 4.36787  | 4.368                |                  |
| 47 4-Nitrophenol                  | 109   |     | 15.456                 | 15.456 | (1.017) | 196281  | 12.1385  | 12.14                |                  |
| 48 2,4-Dinitrotoluene             | 165   |     | 15.657                 | 15.657 | (1.031) | 481460  | 14.1910  | 14.19                |                  |
| 50 Diethylphthalate               | 149   |     | 16.167                 | 16.175 | (1.064) | 625425  | 5.99972  | 6.000                |                  |
| 49 Fluorene                       | 166   |     | 16.306                 | 16.306 | (1.073) | 522715  | 4.46798  | 4.468                |                  |
| 51 4-Chlorophenyl-phenylether     | 204   |     | 16.298                 | 16.298 | (1.073) | 266095  | 4.78304  | 4.783                |                  |
| 52 4-Nitroaniline                 | 138   |     | 16.406                 | 16.406 | (1.080) | 280057  | 11.9962  | 12.00                |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     | 16.499                 | 16.499 | (0.904) | 552168  | 29.0731  | 29.07                |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     | 16.553                 | 16.553 | (0.907) | 316380  | 3.88823  | 3.888                |                  |
| § 55 2,4,6-Tribromophenol         | 330   |     | 16.838                 | 16.846 | (1.108) | 133195  | 8.75646  | 8.756                |                  |
| 56 4-Bromophenyl-phenylether      | 248   |     | 17.309                 | 17.308 | (0.948) | 172216  | 5.05924  | 5.059                |                  |
| 57 Hexachlorobenzene              | 284   |     | 17.618                 | 17.626 | (0.965) | 175463  | 4.91645  | 4.916                |                  |
| 58 Pentachlorophenol              | 266   |     | 17.982                 | 17.990 | (0.985) | 329787  | 15.1613  | 15.16                |                  |
| * 59 Phenanthrene-d10             | 188   |     | 18.253                 | 18.253 | (1.000) | 608606  | 4.00000  |                      |                  |
| 60 Phenanthrene                   | 178   |     | 18.299                 | 18.299 | (1.003) | 731336  | 4.40687  | 4.407                |                  |
| 61 Anthracene                     | 178   |     | 18.392                 | 18.392 | (1.008) | 621683  | 3.90523  | 3.905                |                  |
| 62 Carbazole                      | 167   |     | 18.725                 | 18.725 | (1.026) | 619450  | 4.34241  | 4.342                |                  |
| 63 Di-n-butylphthalate            | 149   |     | 19.537                 | 19.545 | (1.070) | 981151  | 5.14345  | 5.143                |                  |
| 64 Fluoranthene                   | 202   |     | 20.698                 | 20.705 | (0.887) | 911390  | 4.38849  | 4.388                |                  |
| 65 Pyrene                         | 202   |     | 21.131                 | 21.131 | (0.905) | 1023948 | 4.80637  | 4.806                |                  |
| § 66 Terphenyl-d14                | 244   |     | 21.425                 | 21.425 | (0.918) | 749185  | 4.68274  | 4.683                |                  |
| 67 Butylbenzylphthalate           | 149   |     | 22.362                 | 22.369 | (0.958) | 391626  | 5.07040  | 5.070                |                  |
| 68 Benzo(a)anthracene             | 228   |     | 23.314                 | 23.314 | (0.999) | 824176  | 4.51776  | 4.518                |                  |
| * 69 Chrysene-d12                 | 240   |     | 23.345                 | 23.345 | (1.000) | 516845  | 4.00000  |                      |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     | 23.276                 | 23.275 | (0.997) | 596359  | 10.2055  | 10.21                |                  |
| 71 Chrysene                       | 228   |     | 23.384                 | 23.392 | (1.002) | 788948  | 4.42654  | 4.427                |                  |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 23.407                 | 23.407 | (0.959) | 585501  | 4.63627  | 4.636                |                  |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 24.414                 | 24.413 | (1.000) | 860923  | 4.00000  |                      |                  |
| 73 Di-n-octylphthalate            | 149   |     | 24.421                 | 24.429 | (1.000) | 1070604 | 4.75195  | 4.752                |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 25.234                 | 25.242 | (0.970) | 920475  | 4.89242  | 4.892                |                  |
| 75 Benzo(k)fluoranthene           | 252   |     | 25.281                 | 25.288 | (0.971) | 903052  | 4.72693  | 4.727                |                  |
| 76 Benzo(a)pyrene                 | 252   |     | 25.900                 | 25.908 | (0.995) | 746480  | 4.43777  | 4.438                |                  |
| * 77 Perylene-d12                 | 264   |     | 26.024                 | 26.024 | (1.000) | 580418  | 4.00000  |                      |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 28.769                 | 28.769 | (1.105) | 979227  | 4.57574  | 4.576                |                  |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 28.785                 | 28.800 | (1.106) | 826303  | 4.65075  | 4.651                |                  |
| 80 Benzo(g,h,i)perylene           | 276   |     | 29.577                 | 29.577 | (1.137) | 825949  | 4.45970  | 4.460                |                  |
| 90 N-Nitrosodimethylamine         | 74    |     | 4.681                  | 4.673  | (0.515) | 246041  | 8.24117  | 8.241                |                  |
| 91 Aniline                        | 93    |     | 8.543                  | 8.543  | (0.940) | 400526  | 6.12741  | 6.127                |                  |
| 93 Benzidine                      | 184   |     | Compound Not Detected. |        |         |         |          |                      |                  |
| 103 Pyridine                      | 79    |     | 4.727                  | 4.704  | (0.520) | 53358   | 1.16372  | 1.164                |                  |
| 105 1-methylnaphthalene           | 142   |     | 13.235                 | 13.235 | (1.144) | 455615  | 4.54078  | 4.541                |                  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     | 16.622                 | 16.630 | (1.094) | 487934  | 4.19024  | 4.190                |                  |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 25.281 | 25.288 | (0.971) | 1741424  | 9.58635              | 9.586            |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 15.927 | 15.935 | (1.048) | 157217   | 4.63547              | 4.635            |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 22-MAR-2023  
 Lab File ID: NT1003222307.D Calibration Time: 17:42  
 Lab Smp Id: BLC0442-BS1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 122478   | 61239      | 244956  | 154744 | 26.34 |
| 27 Naphthalene-d8     | 459261   | 229631     | 918522  | 572840 | 24.73 |
| 42 Acenaphthene-d10   | 264106   | 132053     | 528212  | 327050 | 23.83 |
| 59 Phenanthrene-d10   | 503255   | 251628     | 1006510 | 608606 | 20.93 |
| 69 Chrysene-d12       | 437735   | 218868     | 875470  | 516845 | 18.07 |
| 134 Di-n-octylphthala | 700191   | 350096     | 1400382 | 860923 | 22.96 |
| 77 Perylene-d12       | 499049   | 249525     | 998098  | 580418 | 16.30 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.08     | 8.58     | 9.58  | 9.08   | 0.00  |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.57  | 0.00  |
| 42 Acenaphthene-d10   | 15.19    | 14.69    | 15.69 | 15.19  | 0.00  |
| 59 Phenanthrene-d10   | 18.25    | 17.75    | 18.75 | 18.25  | 0.00  |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.35  | 0.00  |
| 134 Di-n-octylphthala | 24.41    | 23.91    | 24.91 | 24.41  | 0.00  |
| 77 Perylene-d12       | 26.02    | 25.52    | 26.52 | 26.02  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222307.D

Lab ID: BLC0442-BS1  
nt10.i, 20230322.b\ABN.m, 22-MAR-2023 20:54

RT CO-ELUTION COMPOUNDS

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NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

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NONE

RRT check based on Ccal File: NT1003222302.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222308.D

Date: 23-MAR-2023 21:32

Client ID:

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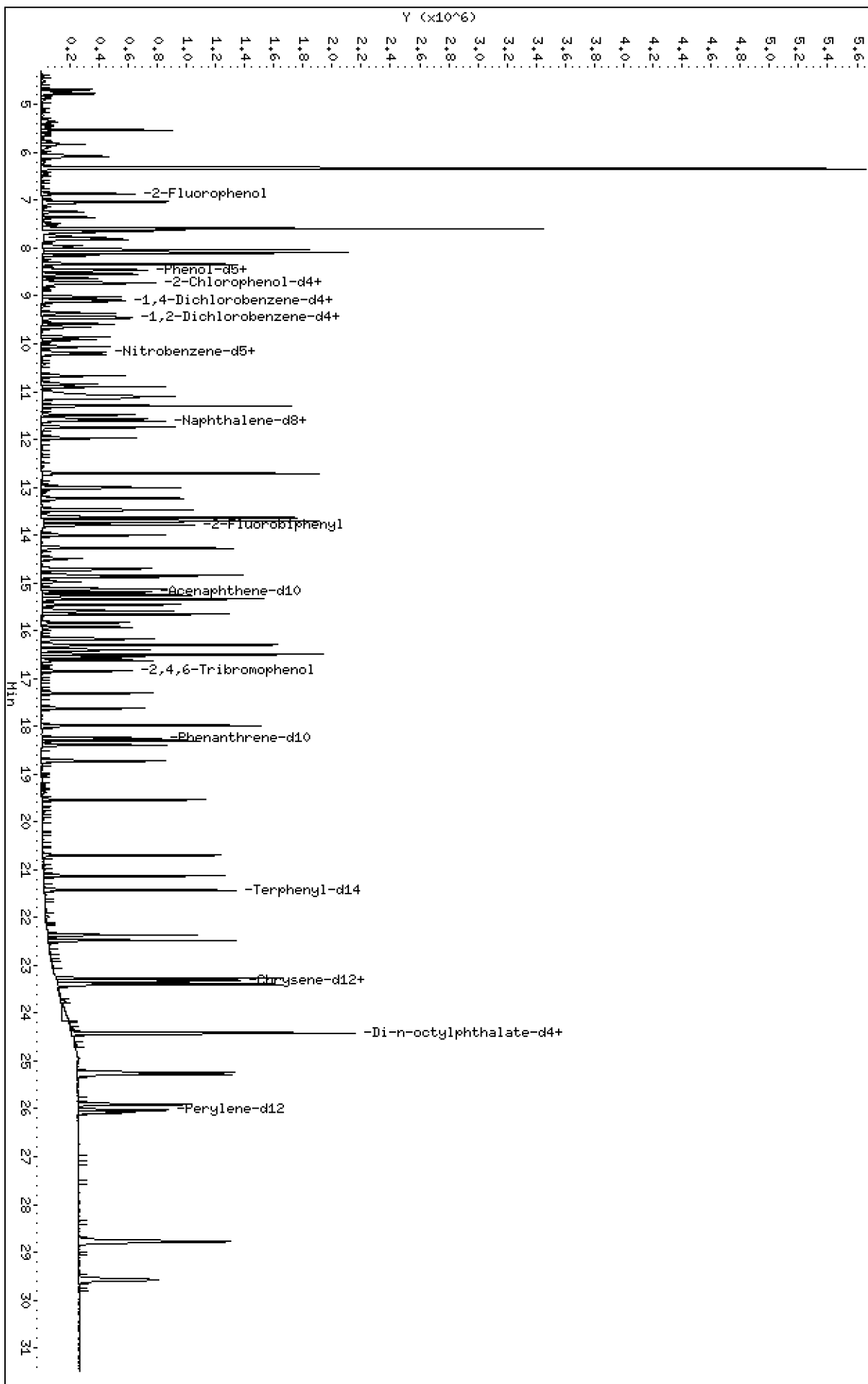
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\NT1003222308.D





Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

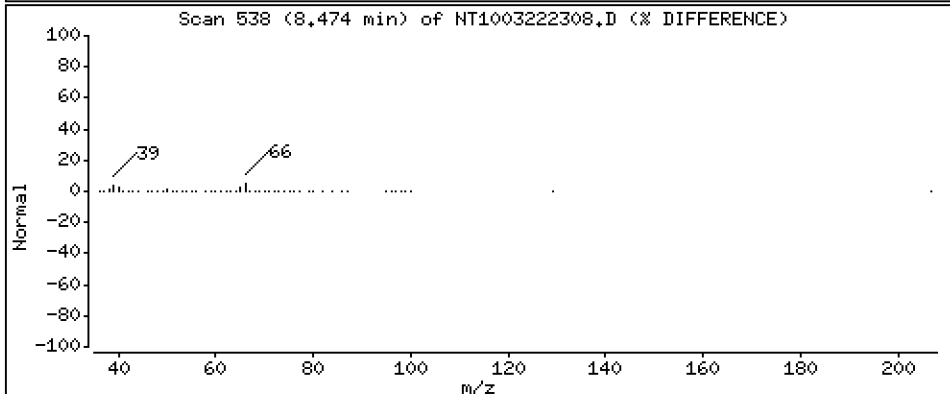
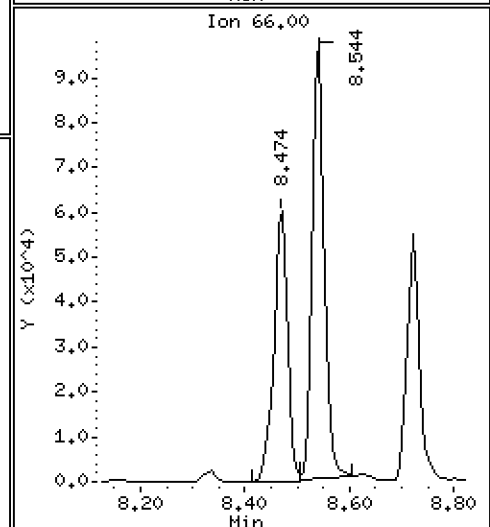
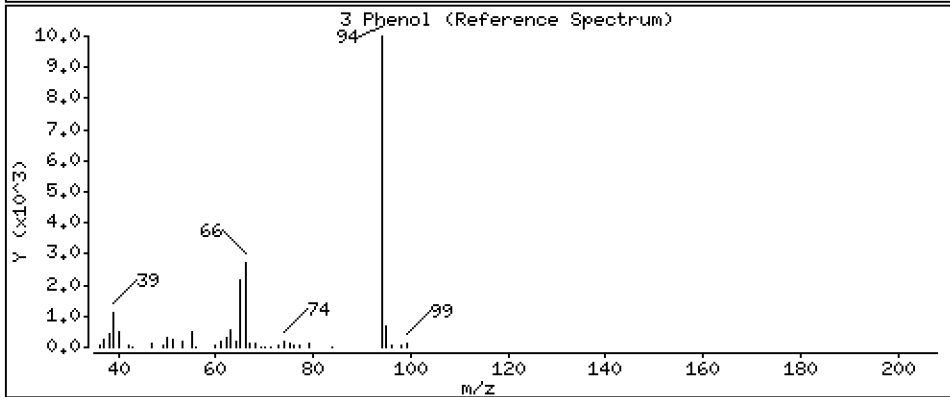
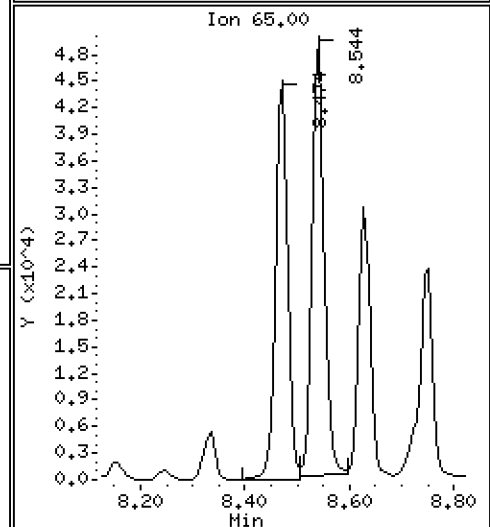
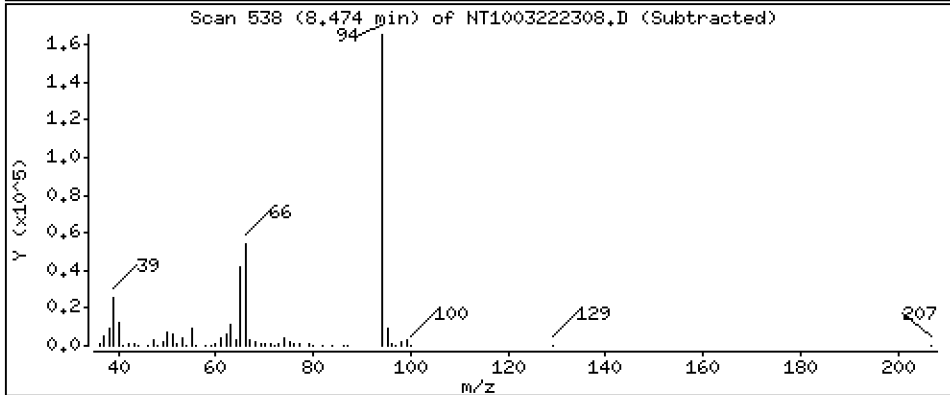
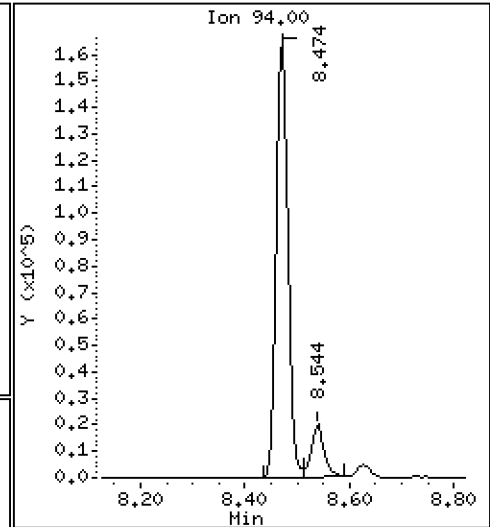
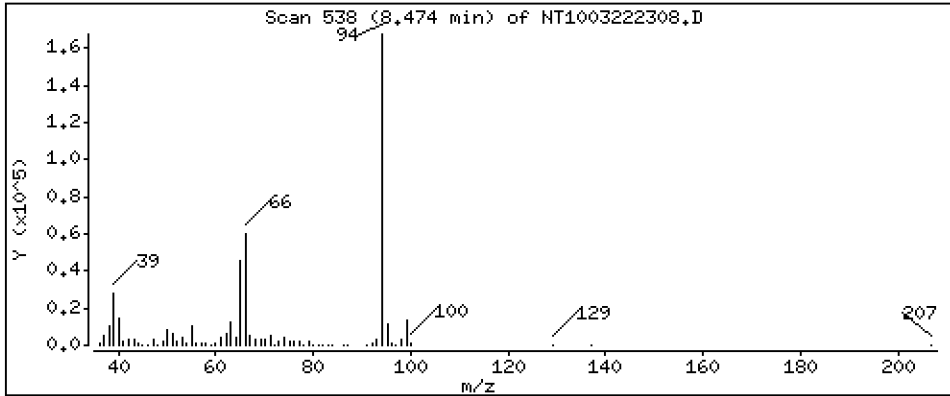
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 3,842 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

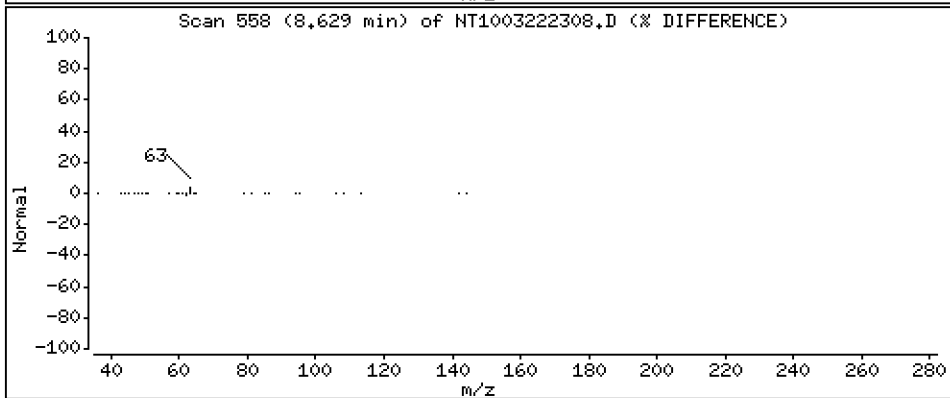
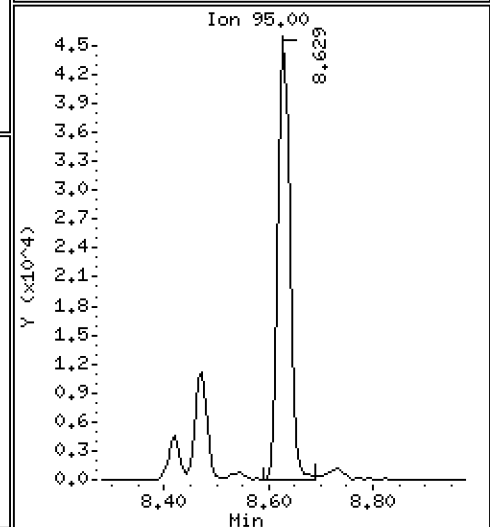
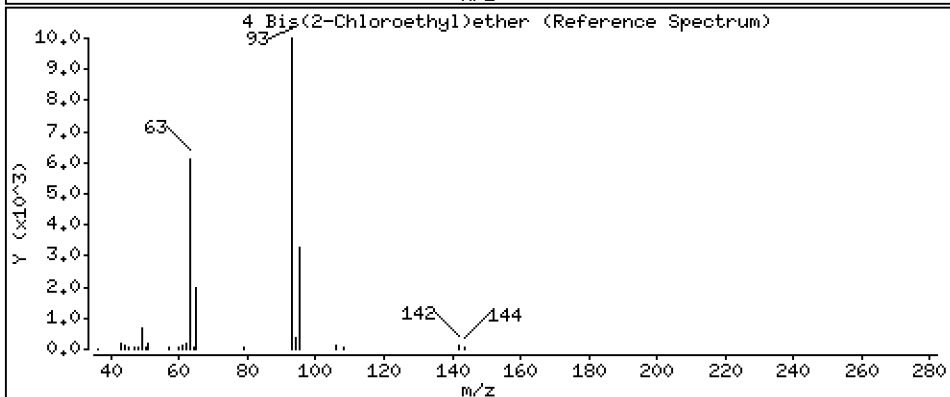
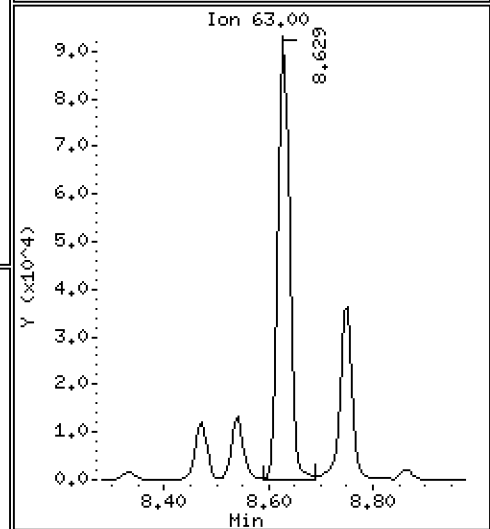
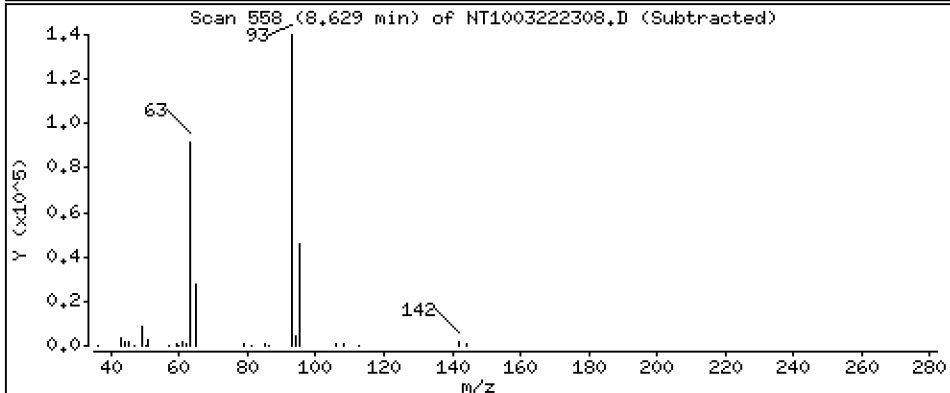
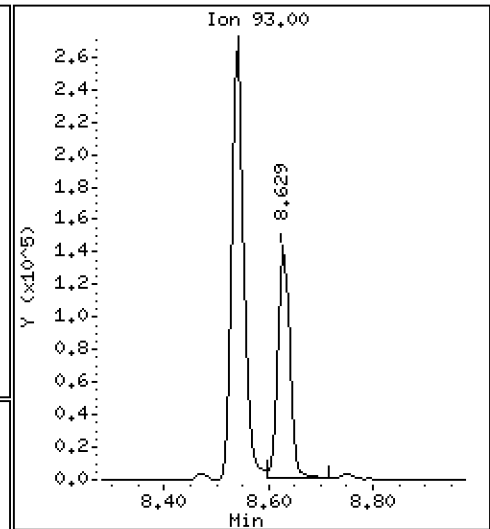
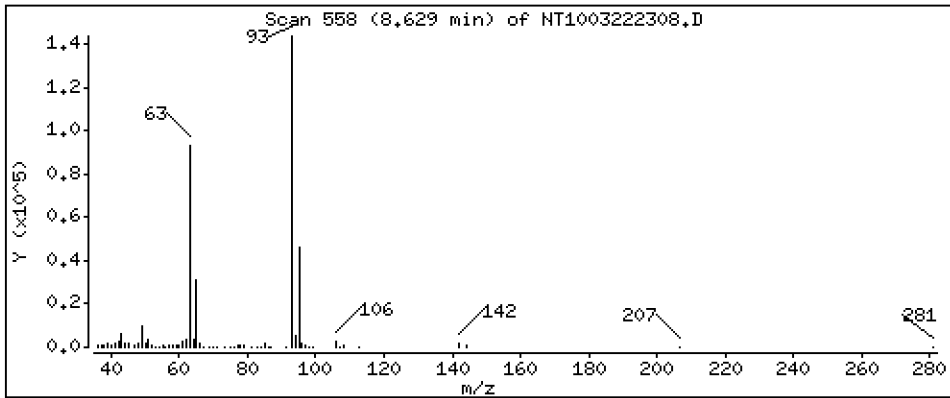
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,505 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

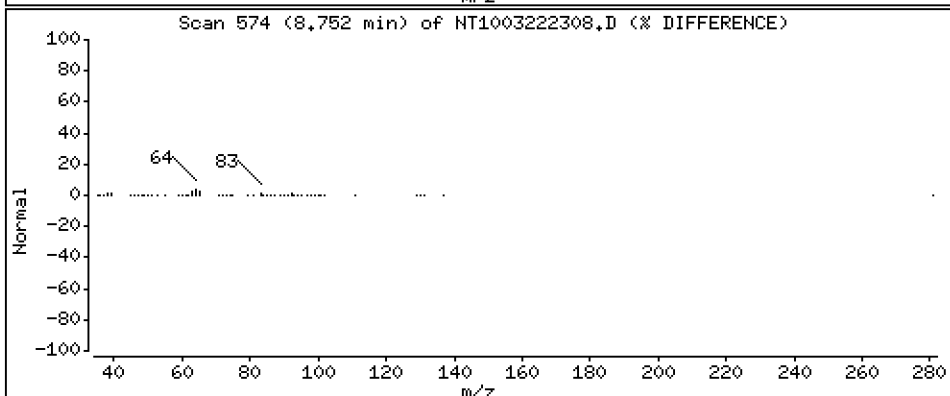
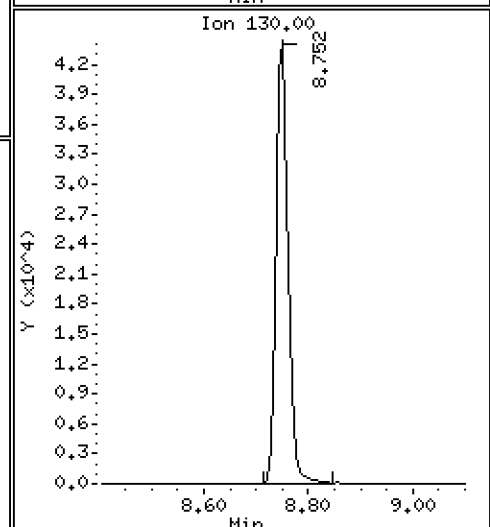
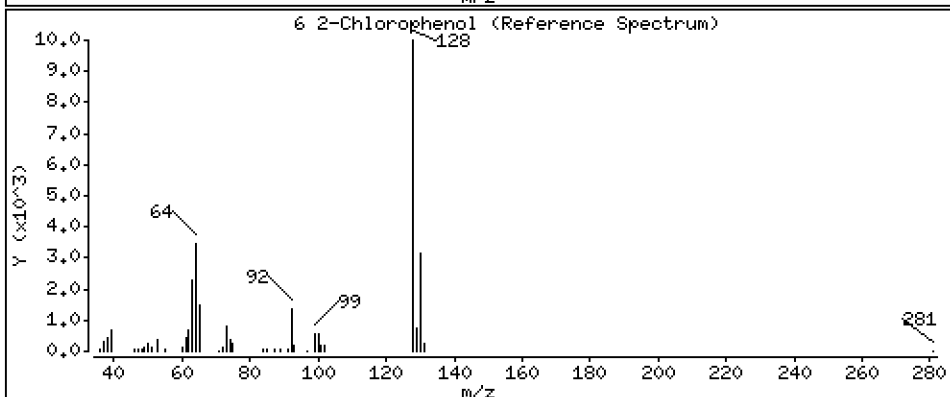
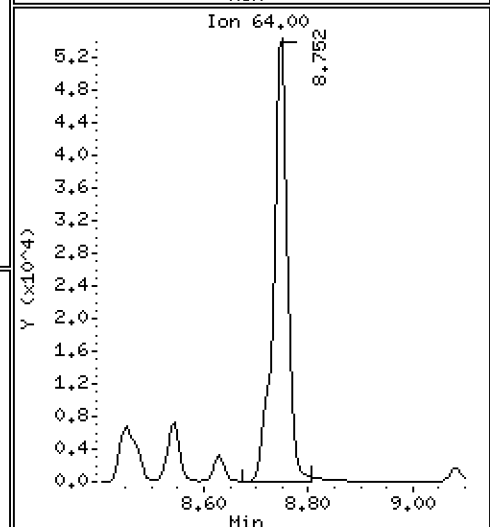
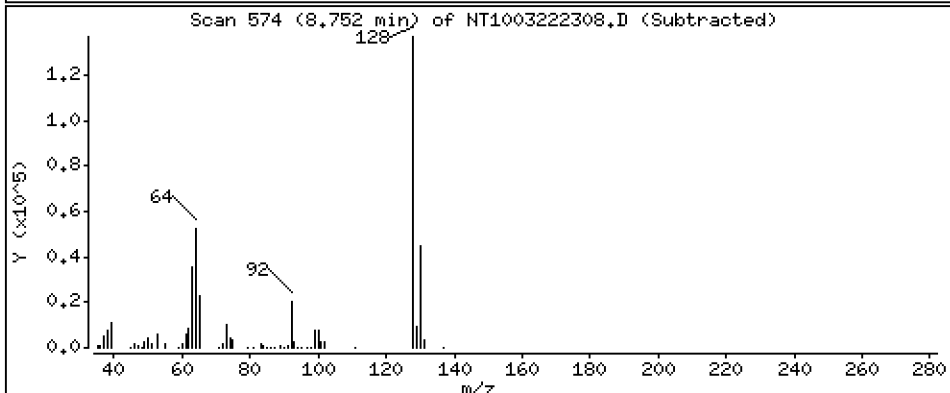
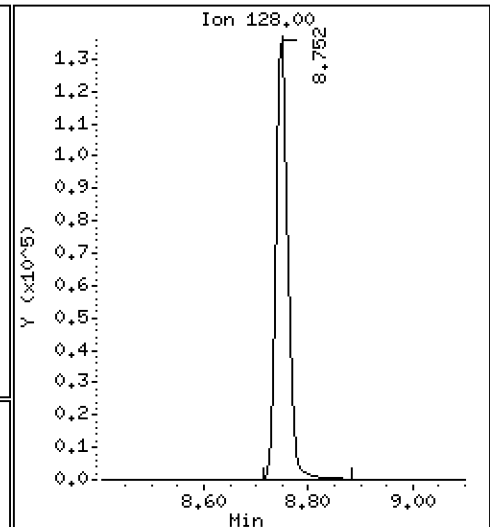
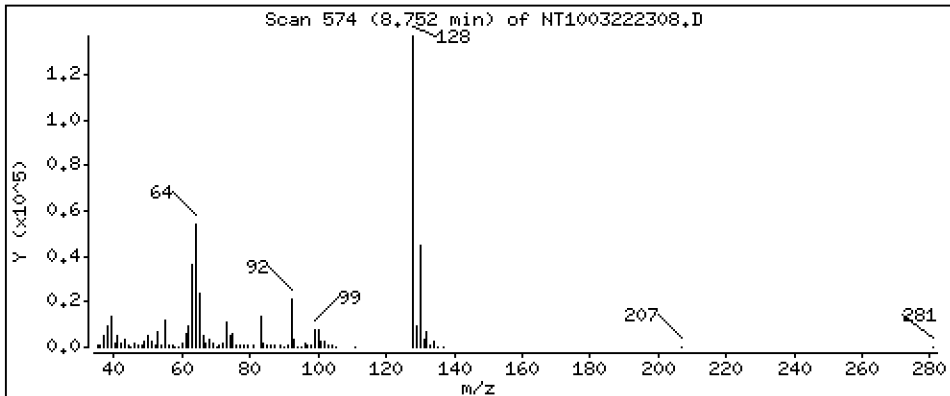
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,014 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

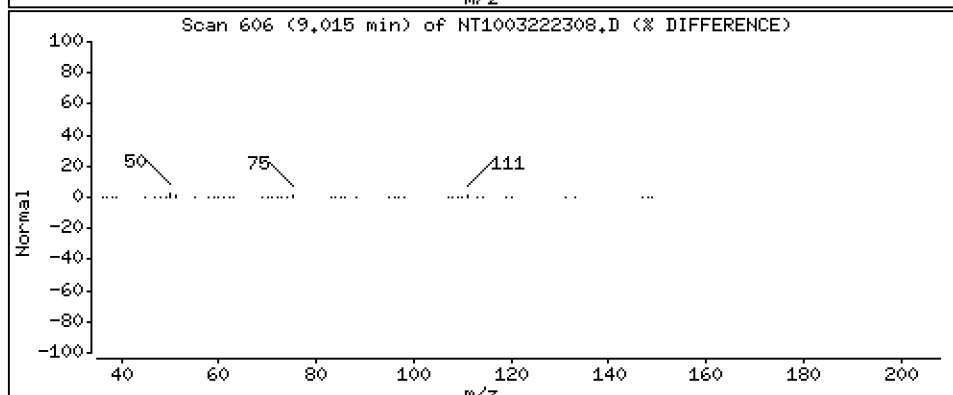
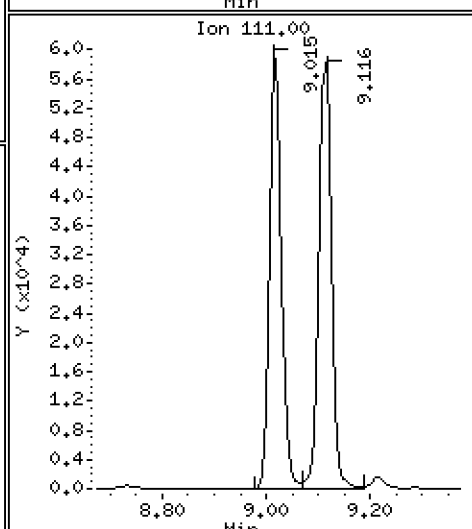
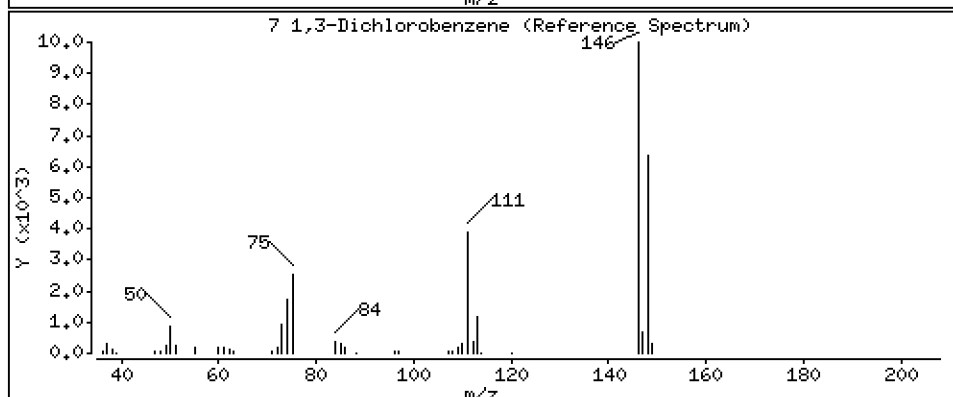
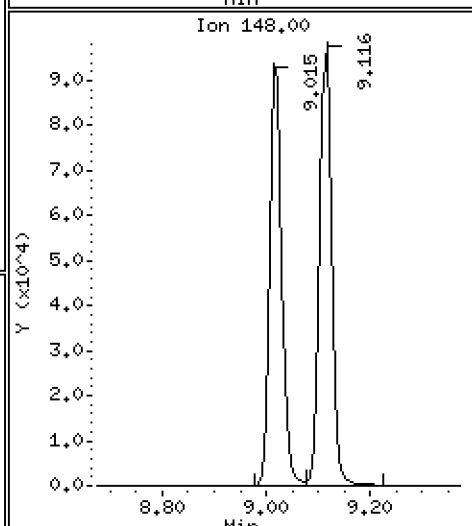
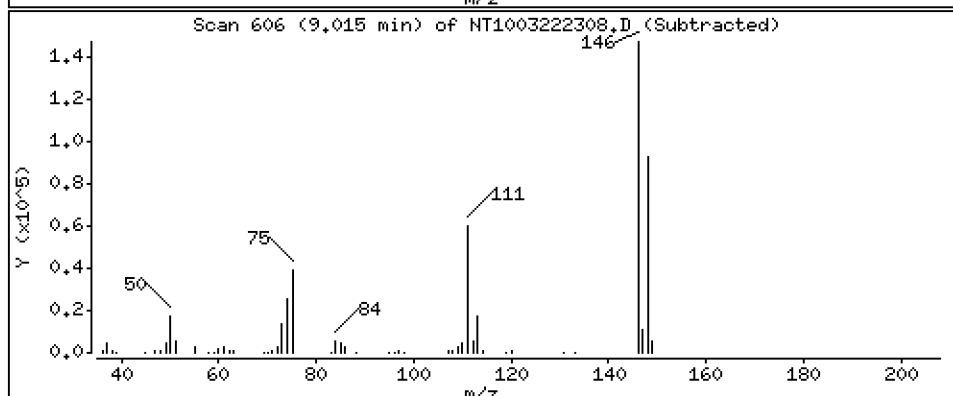
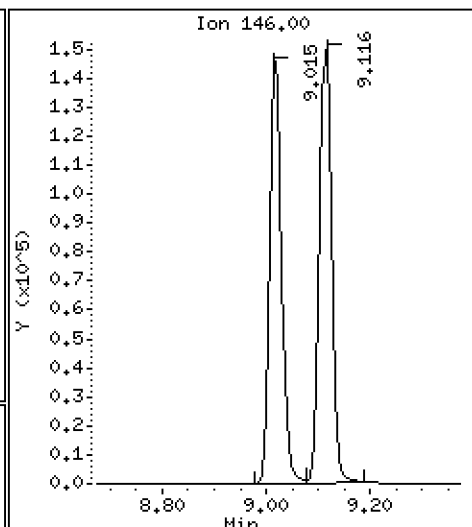
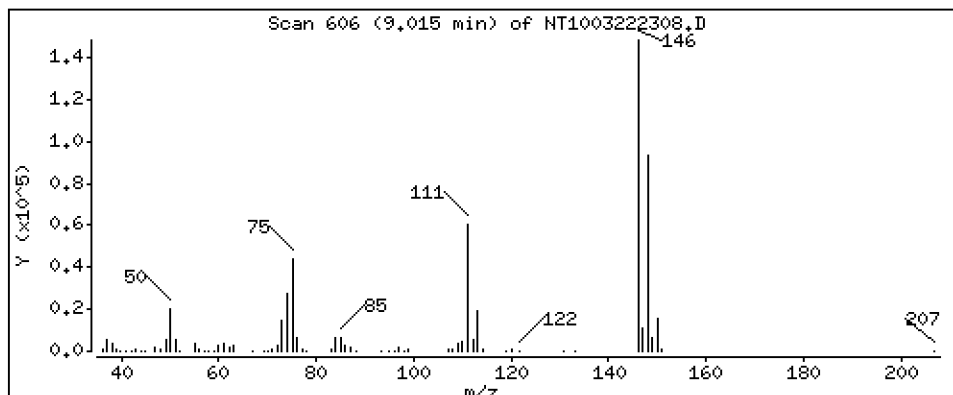
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 4,120 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

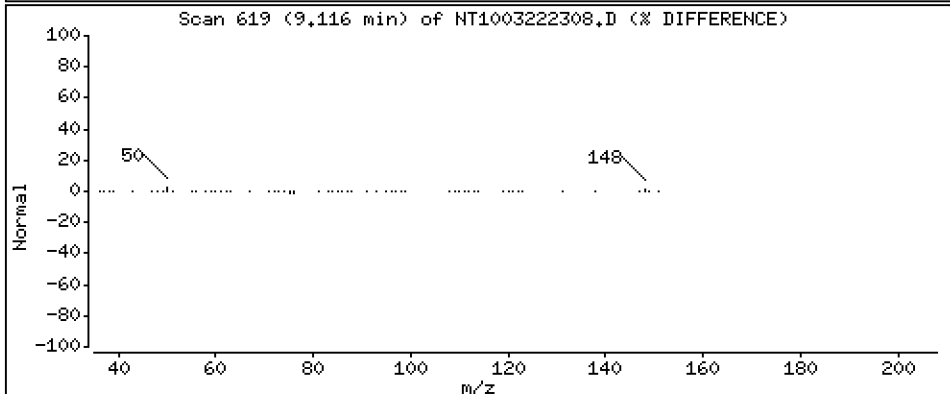
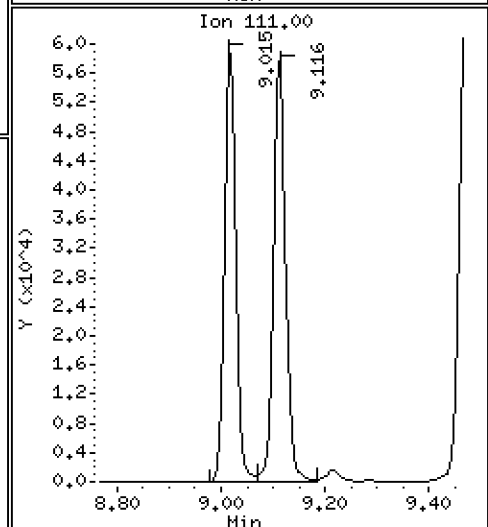
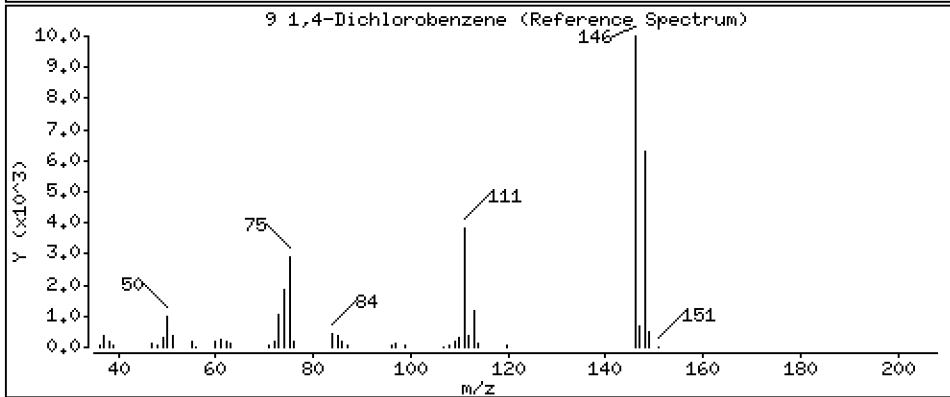
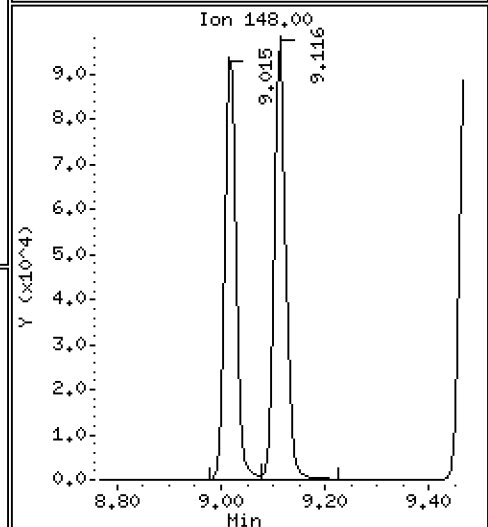
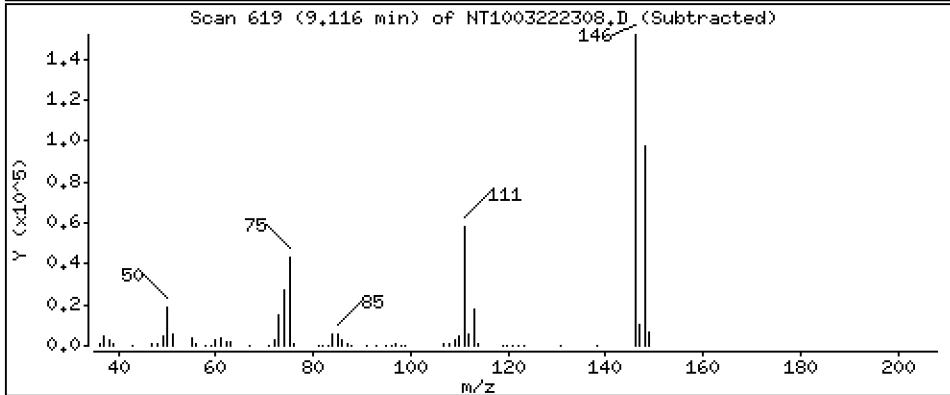
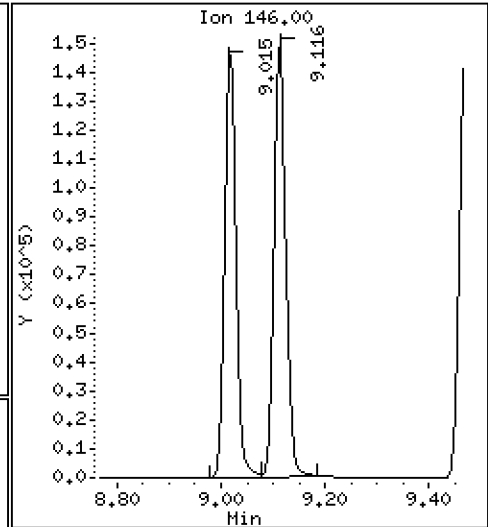
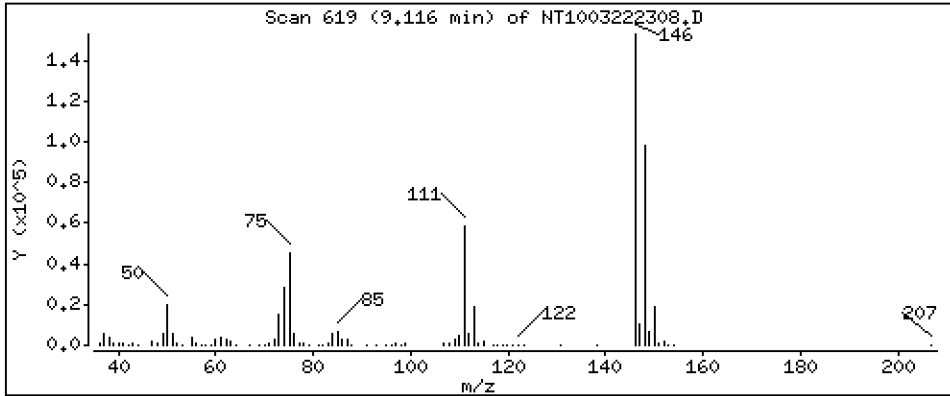
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,214 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

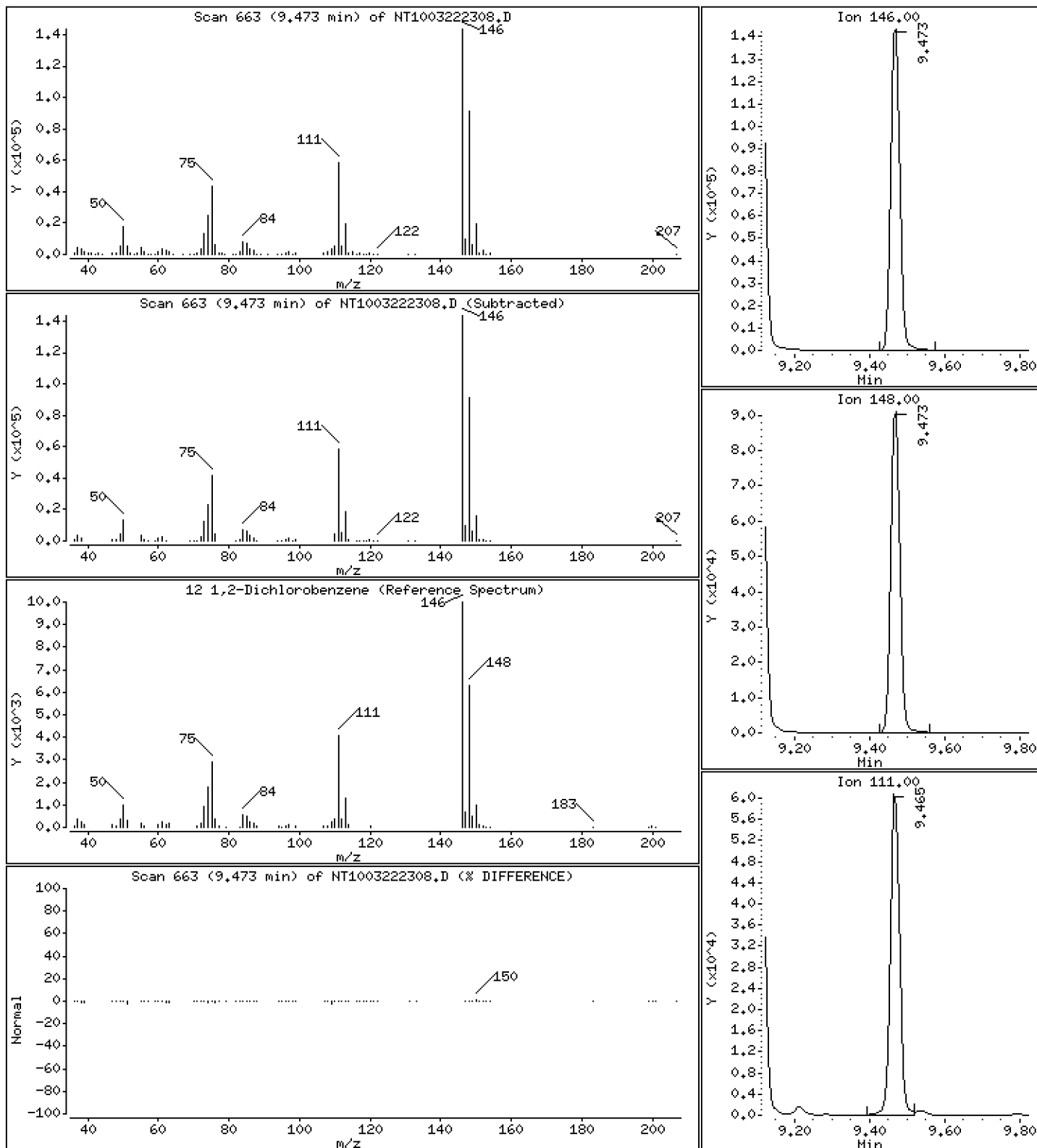
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,239 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

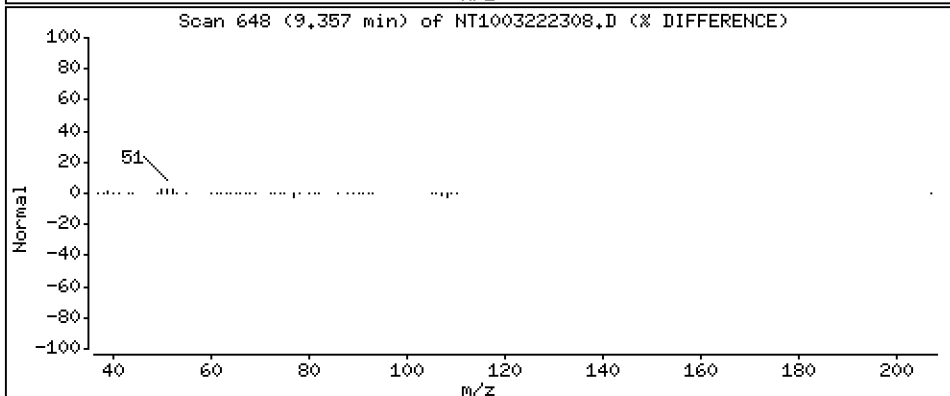
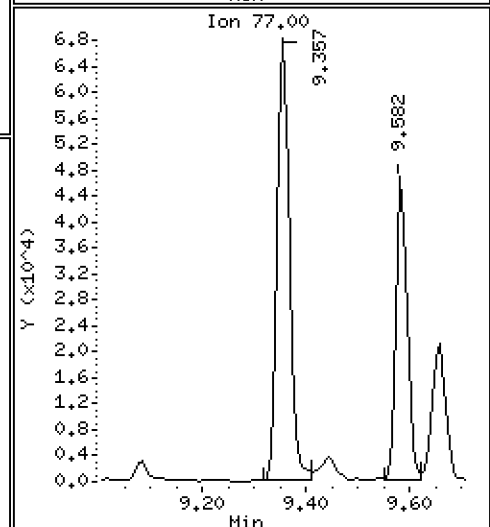
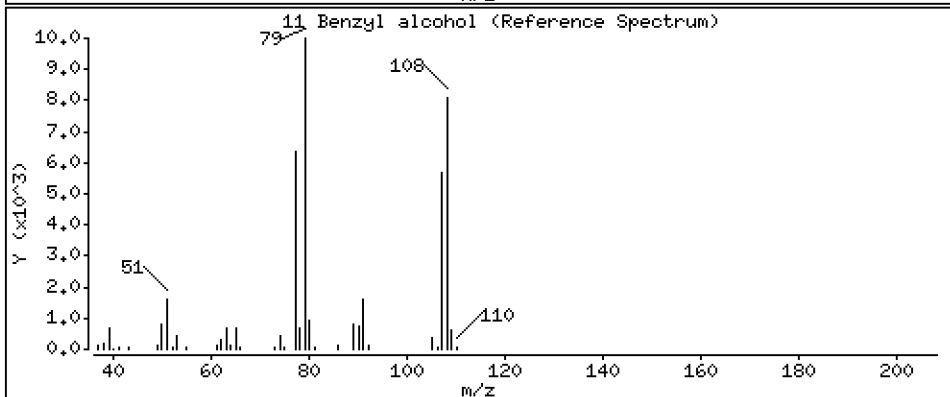
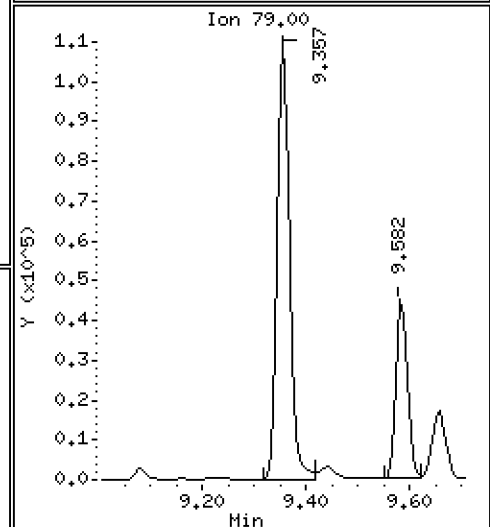
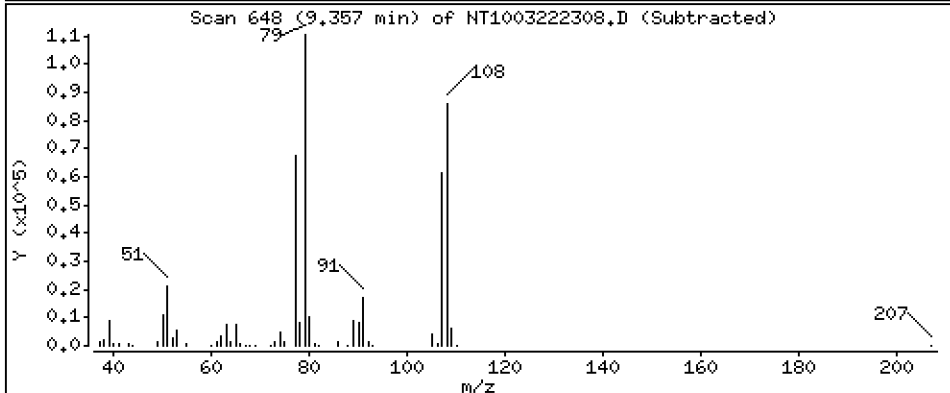
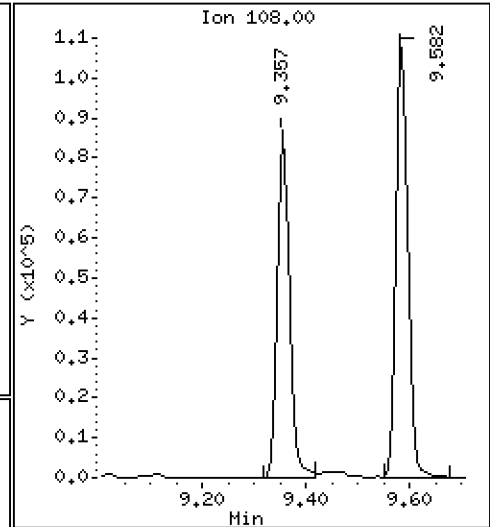
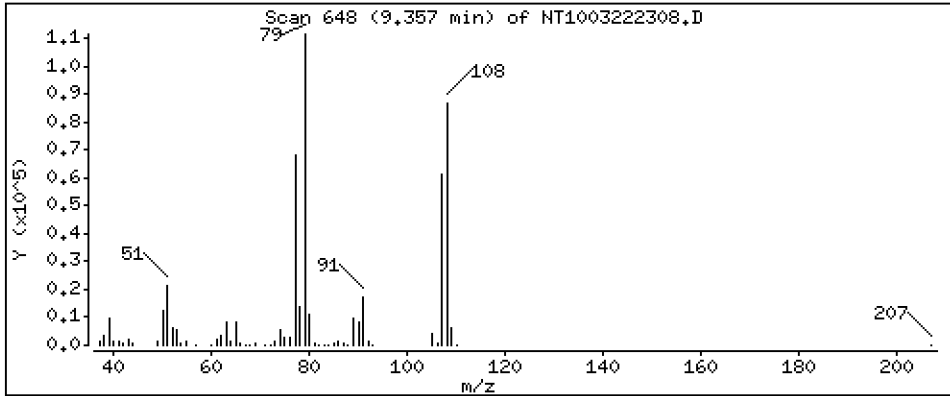
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 4,442 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

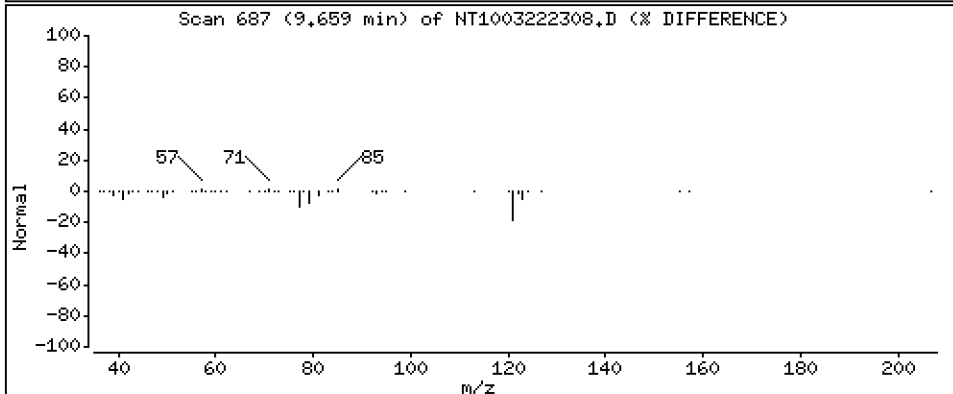
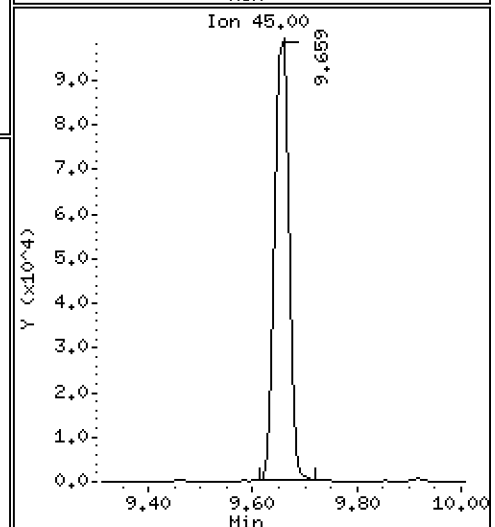
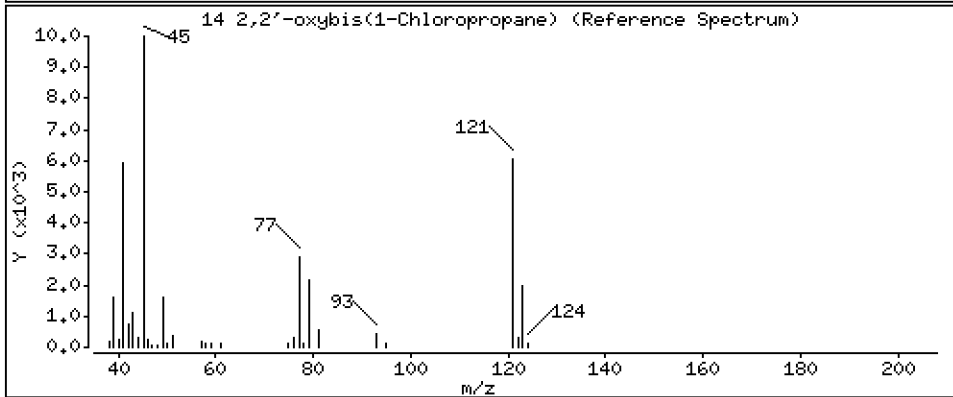
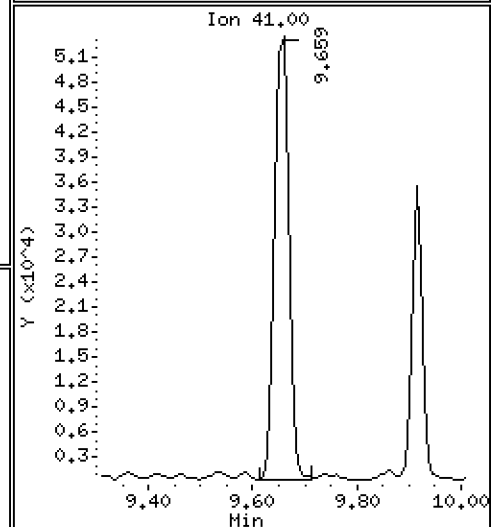
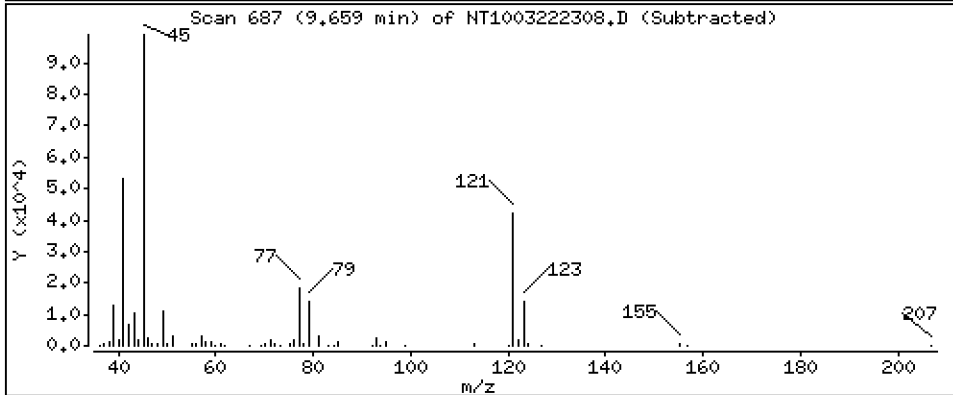
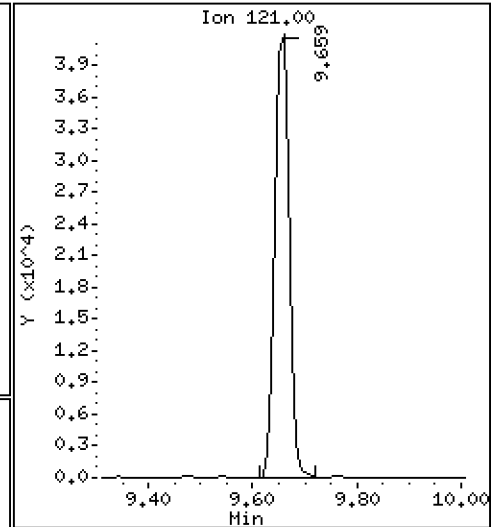
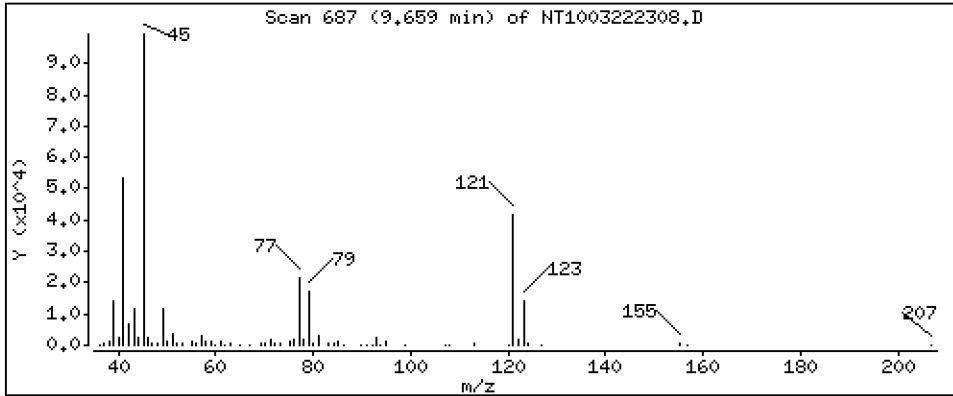
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 4,830 ug/mL





Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

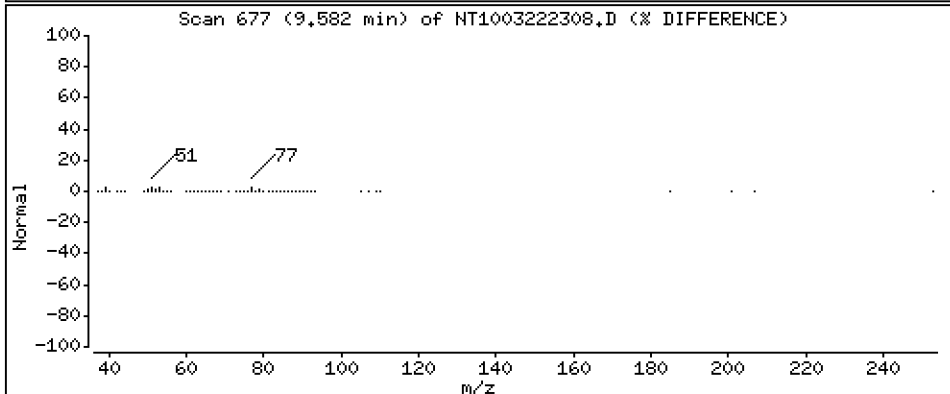
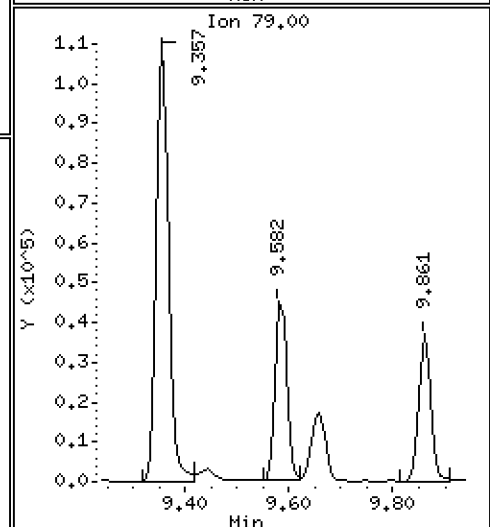
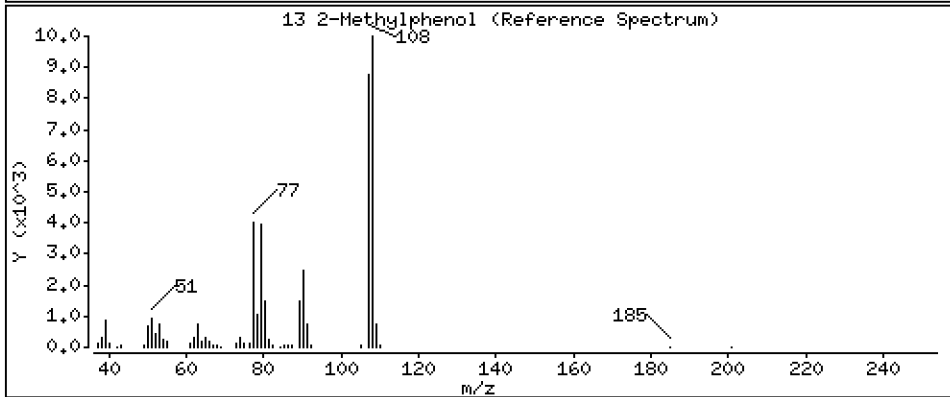
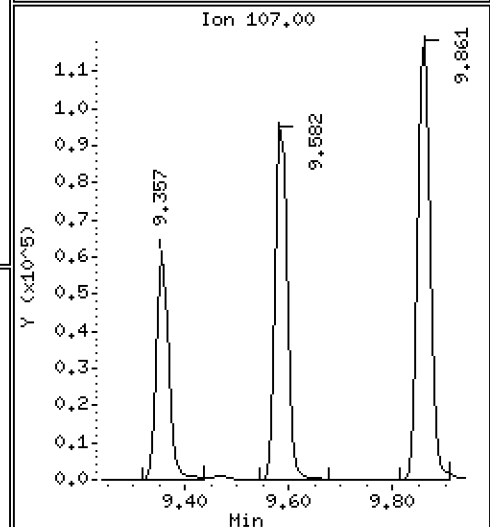
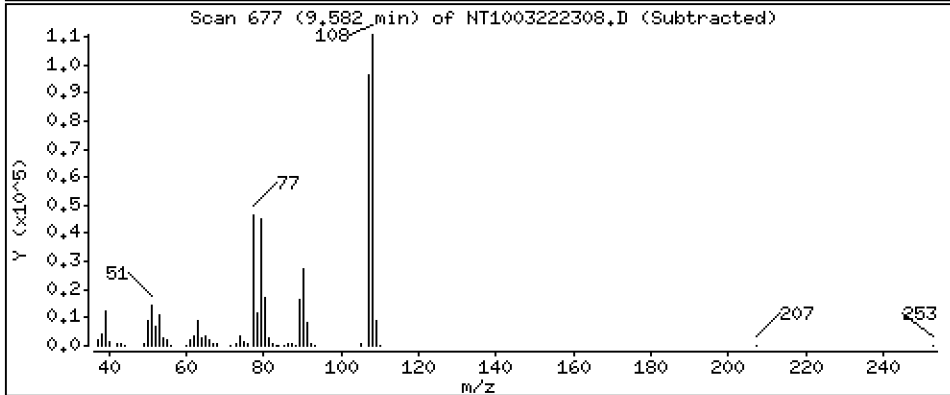
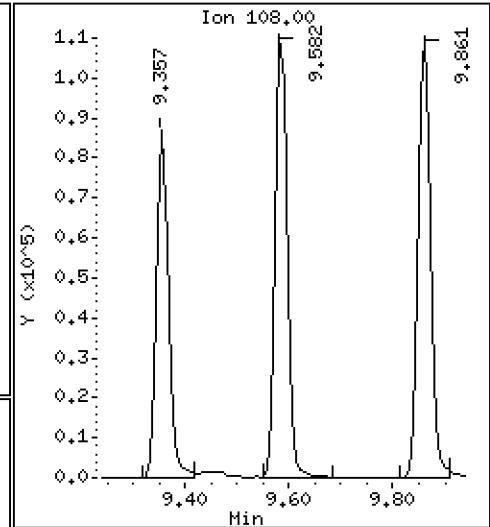
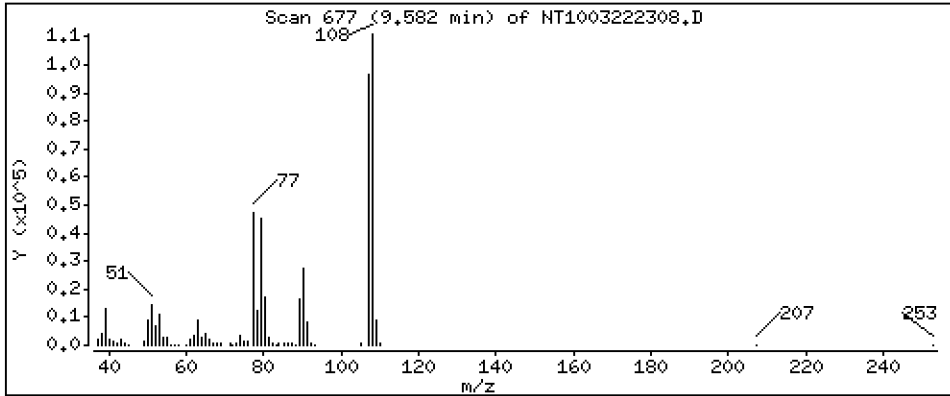
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 3,606 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

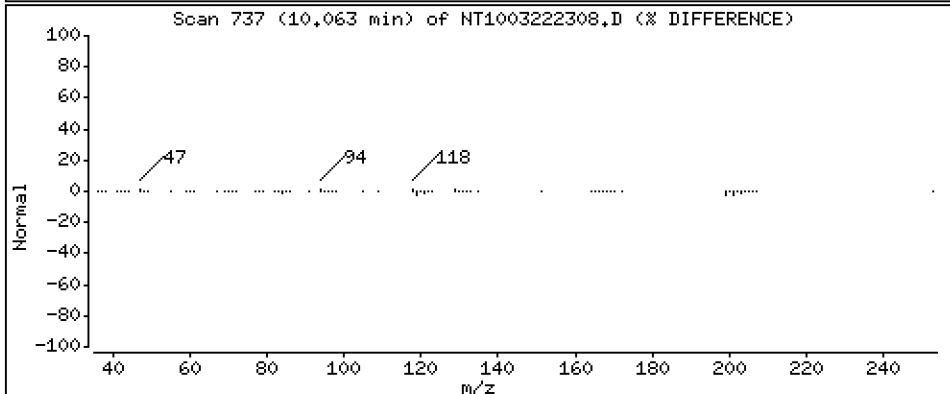
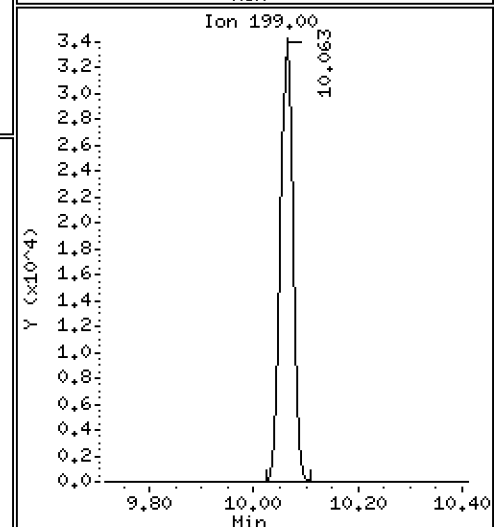
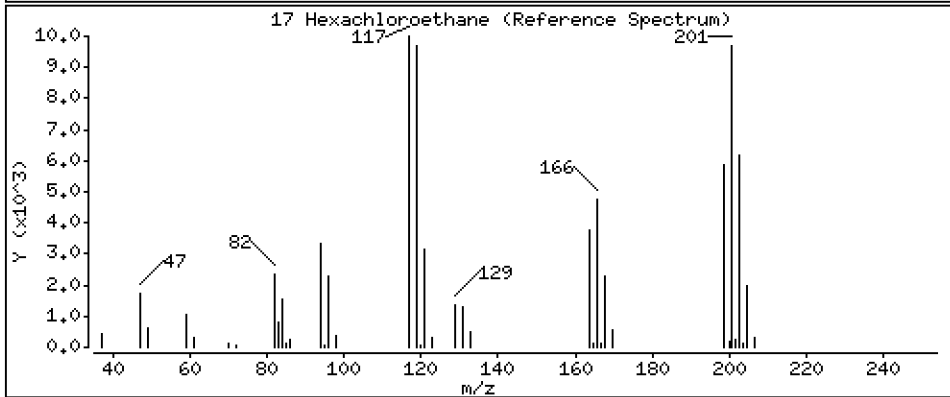
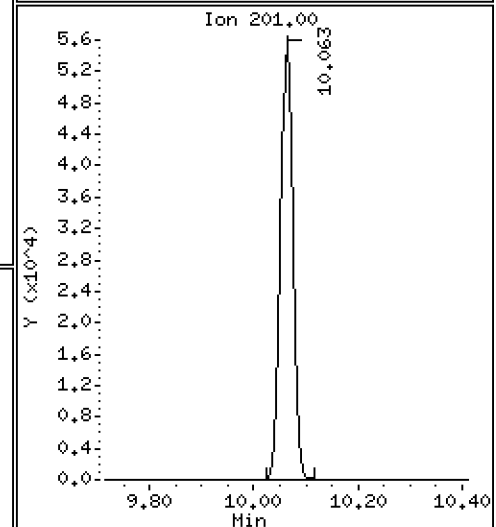
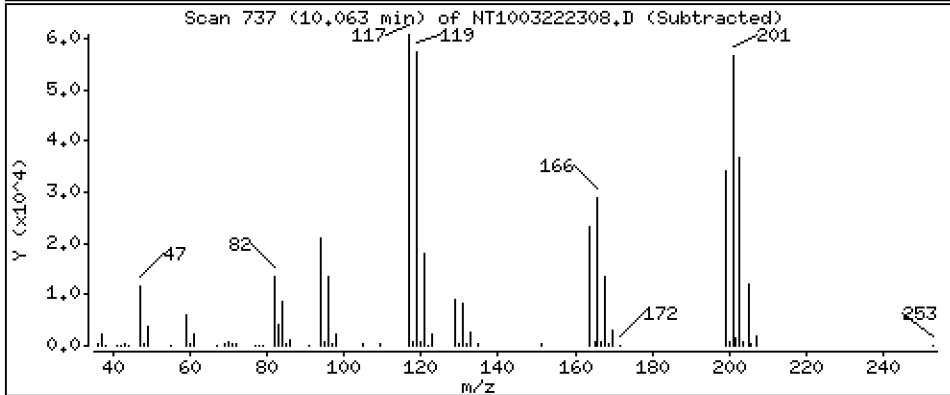
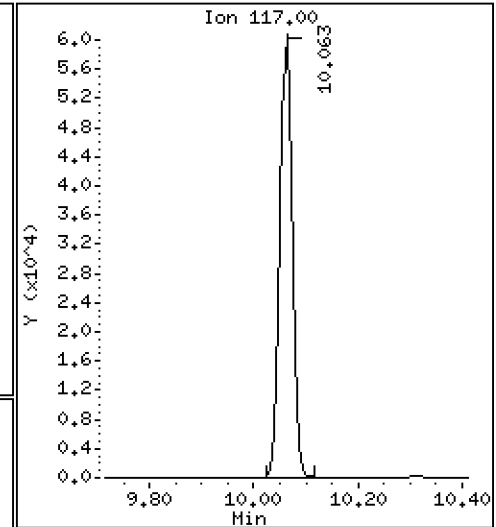
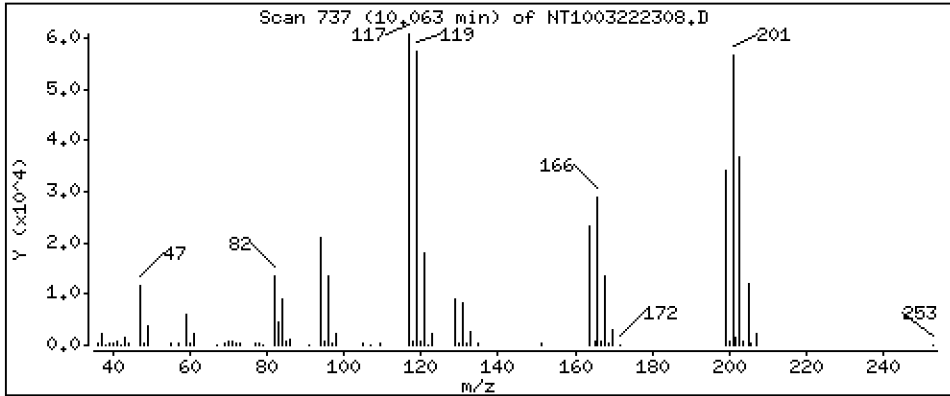
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 4,181 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

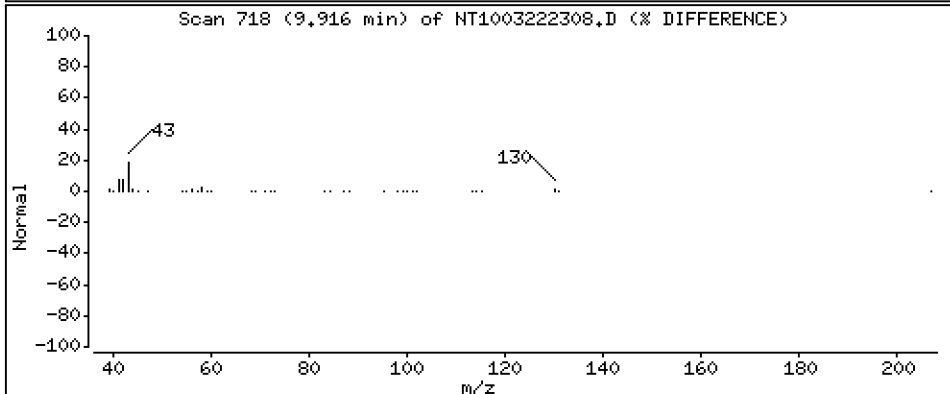
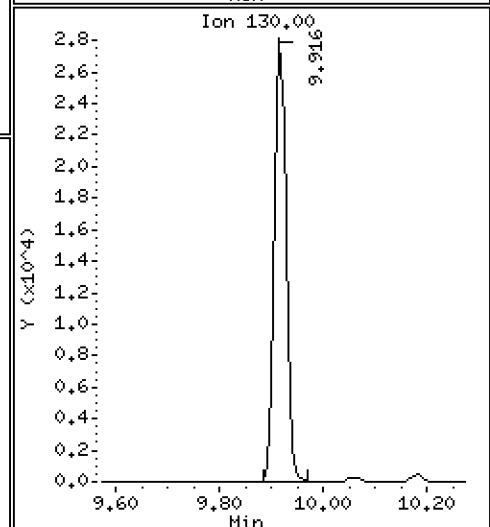
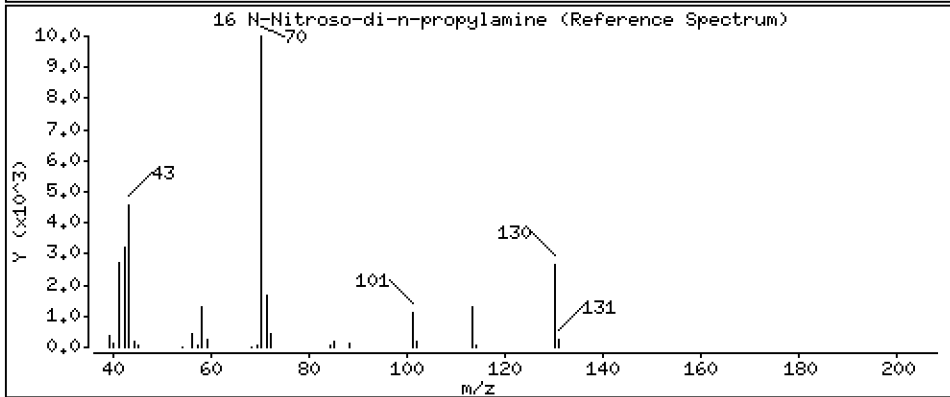
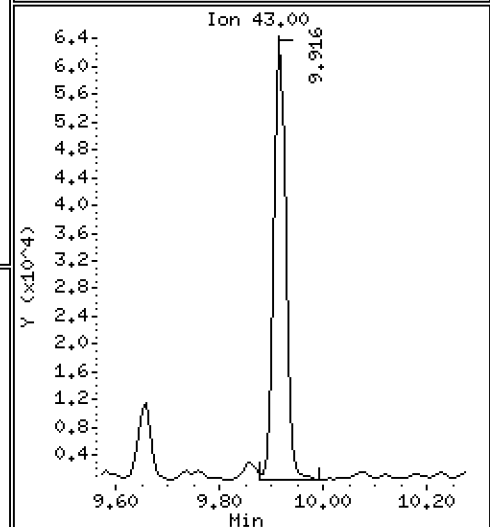
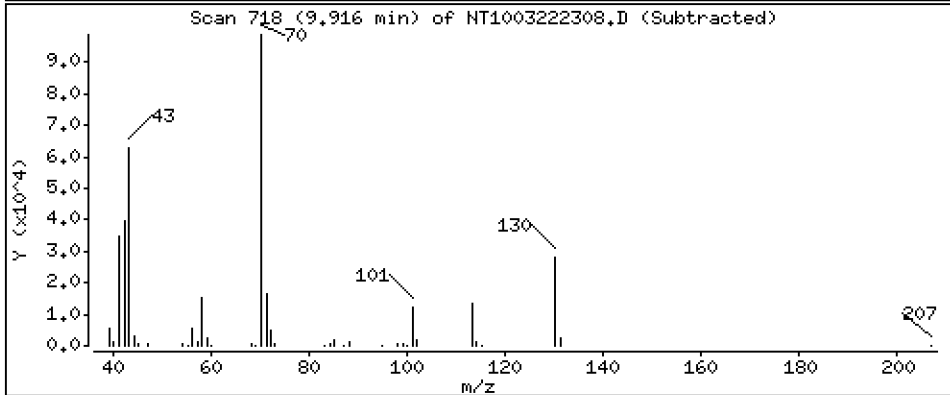
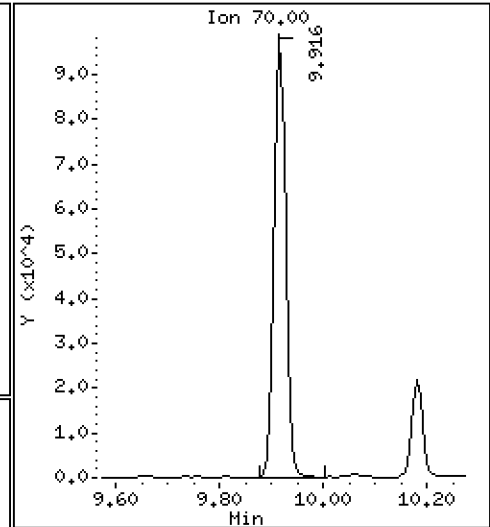
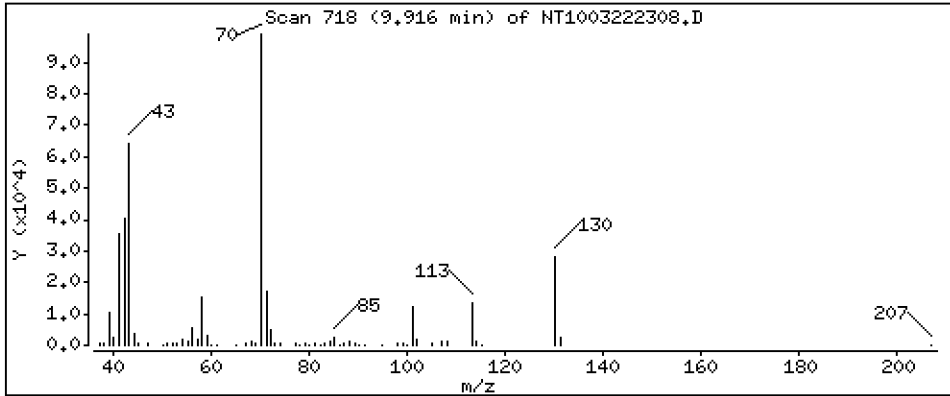
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 3,965 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

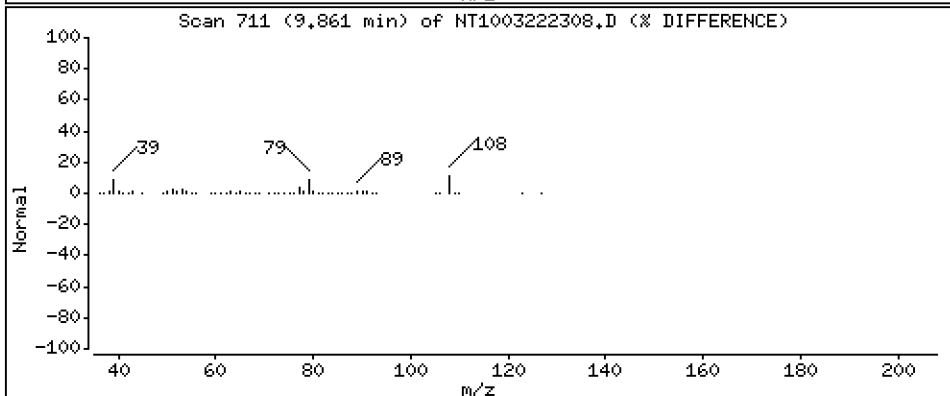
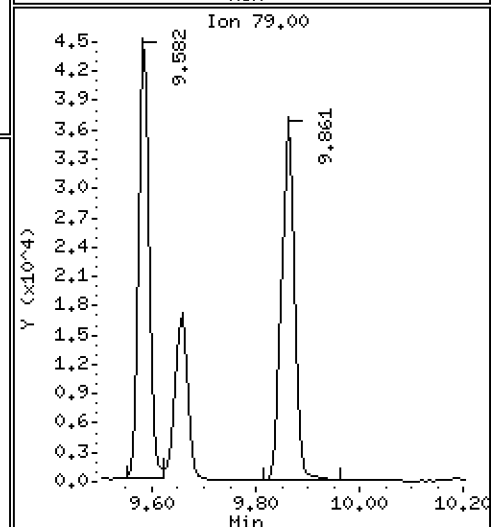
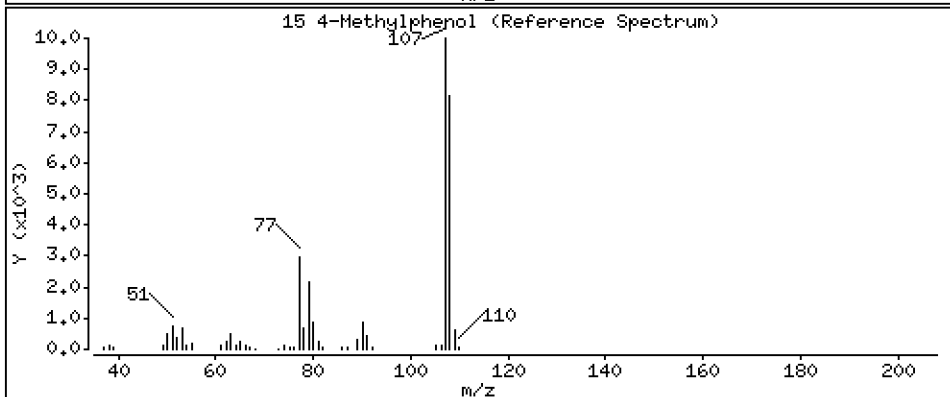
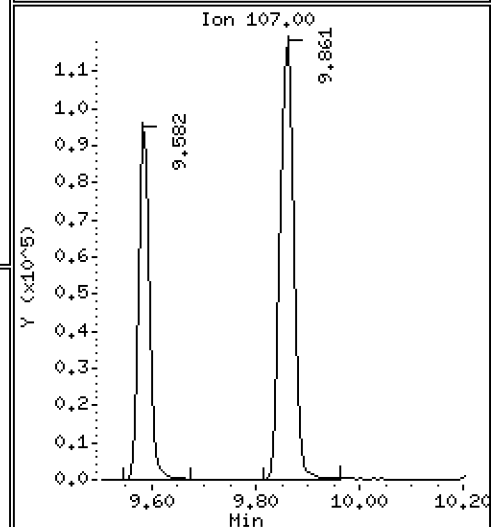
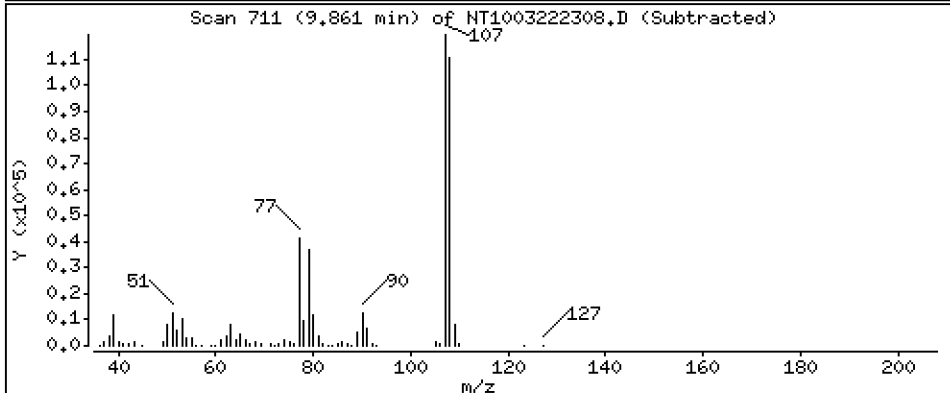
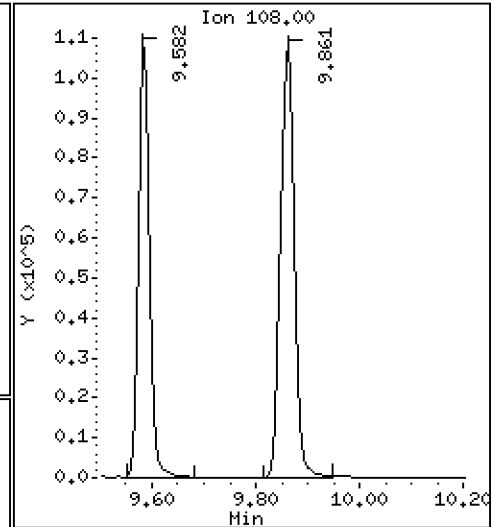
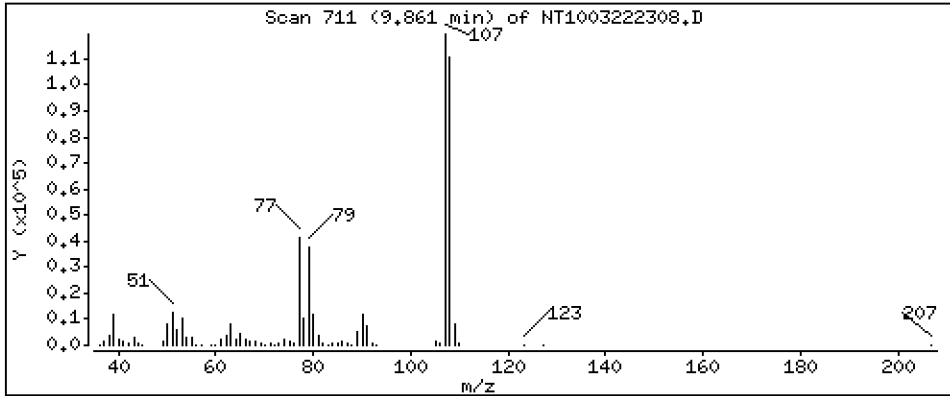
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 4.034 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

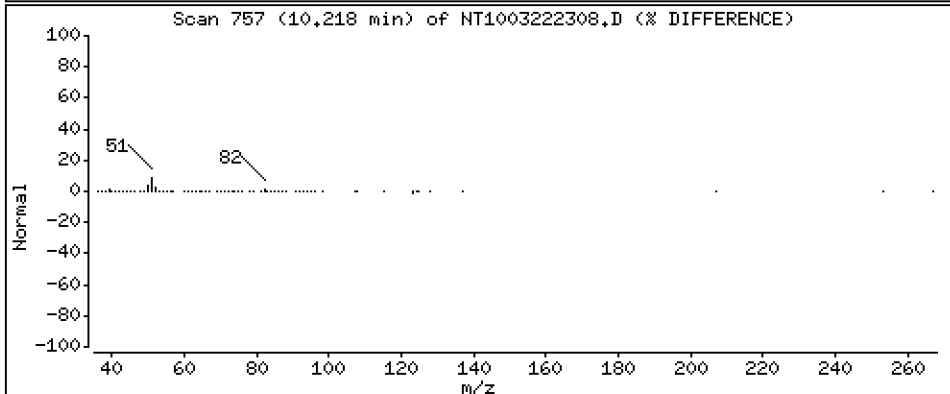
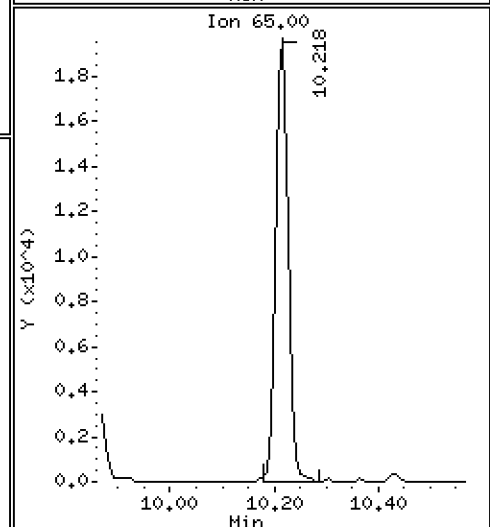
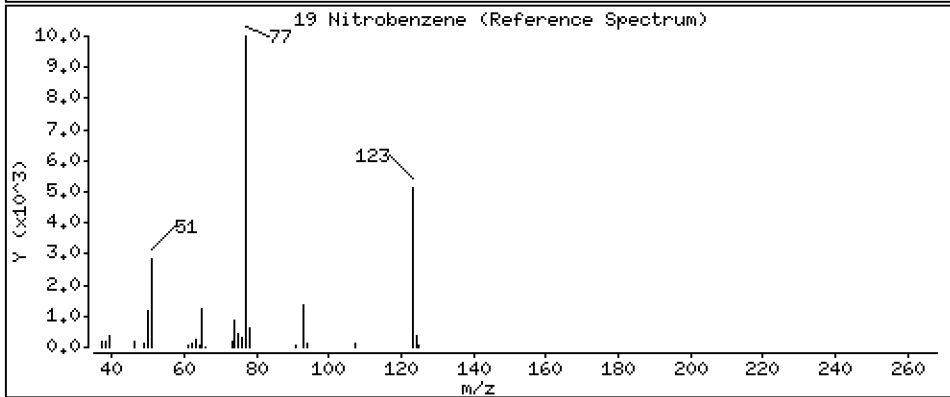
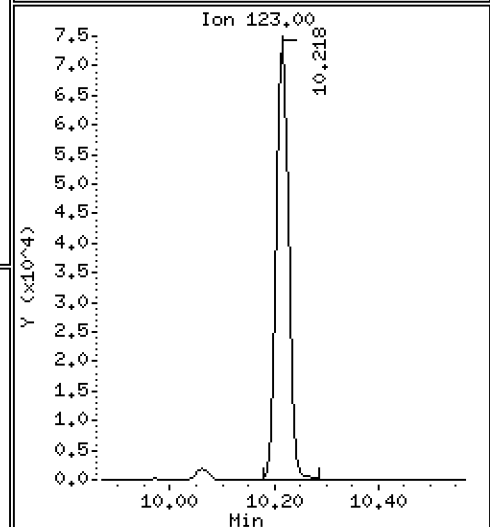
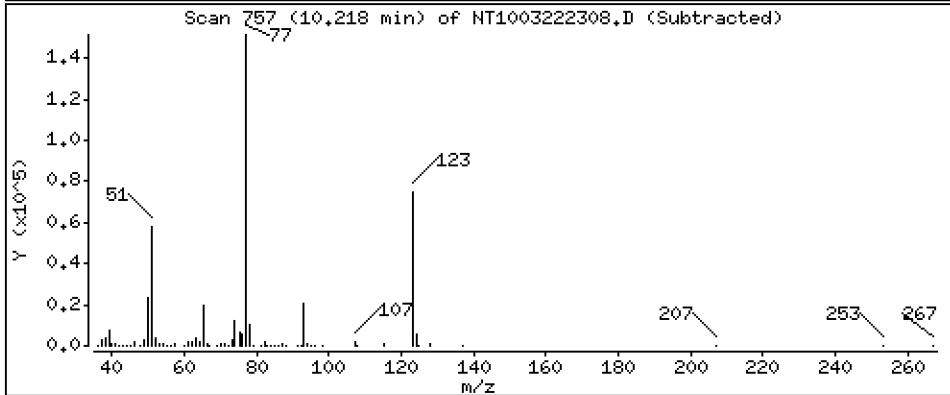
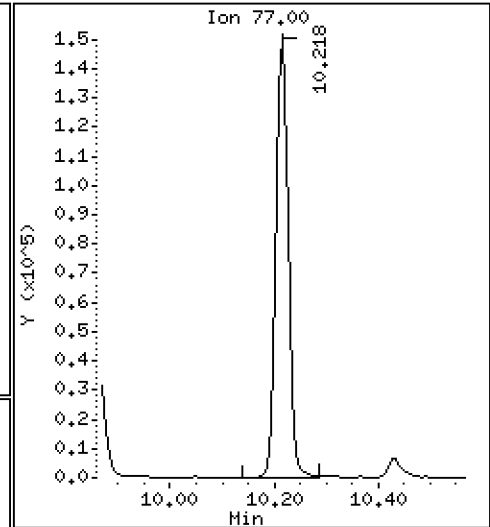
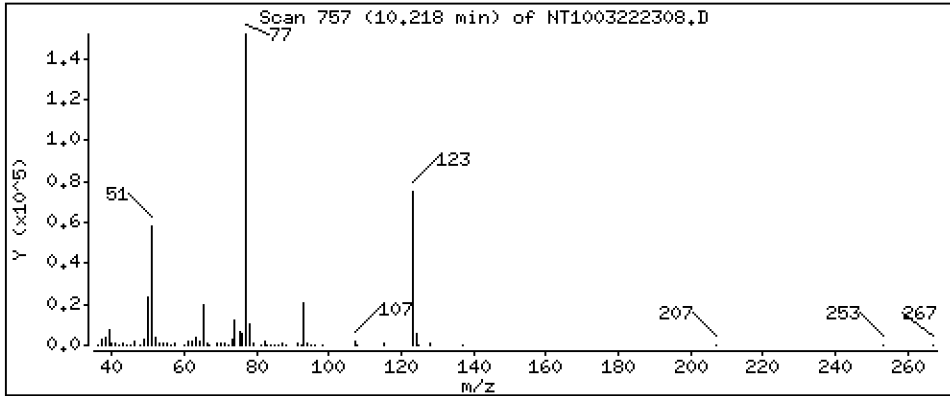
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,271 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

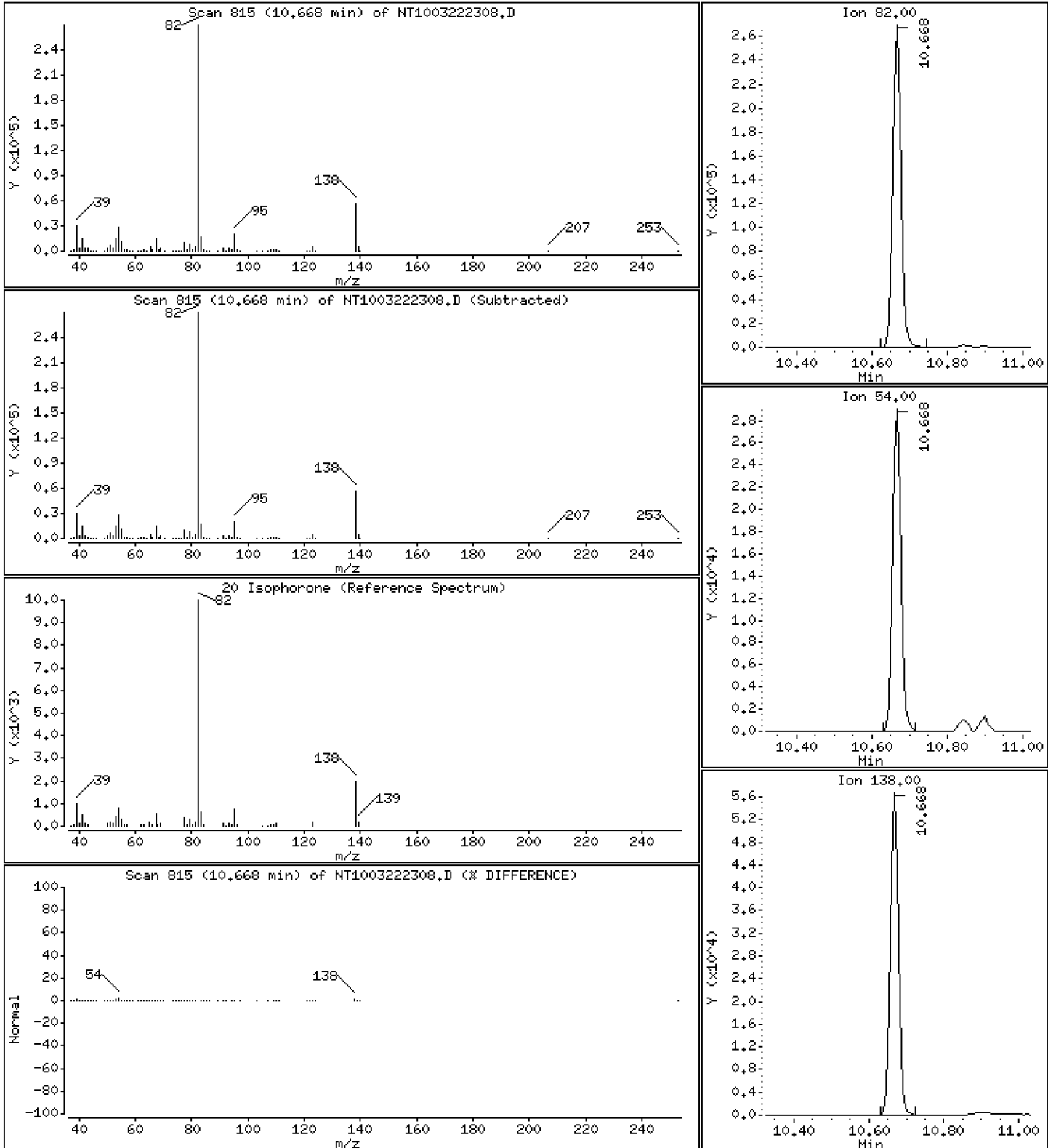
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 5,995 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

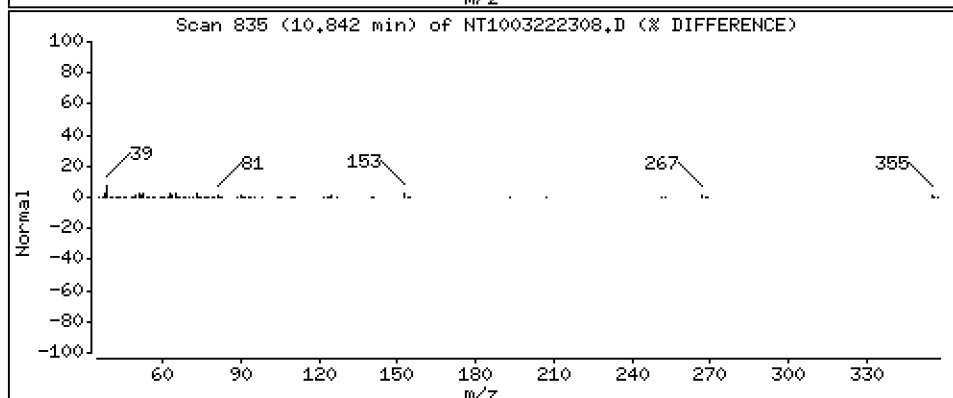
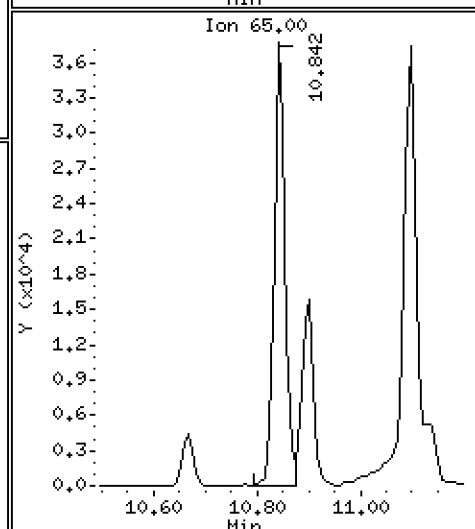
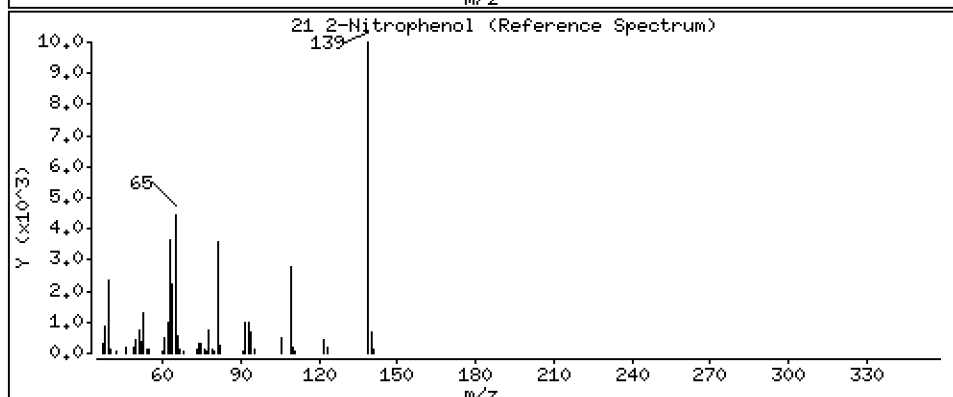
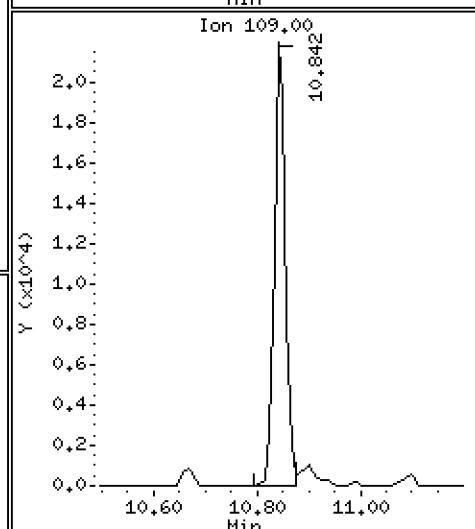
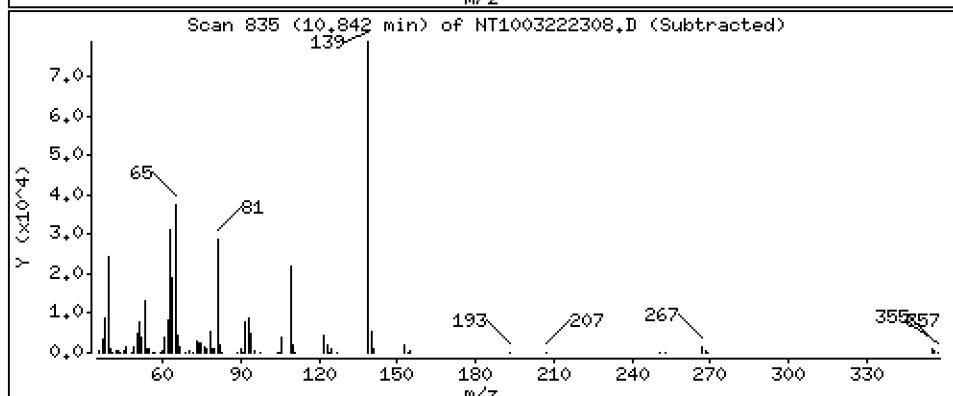
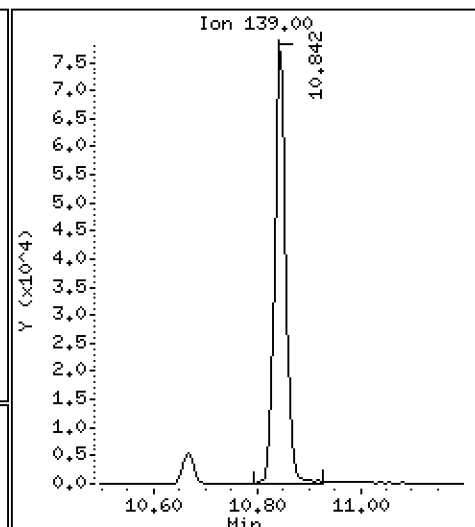
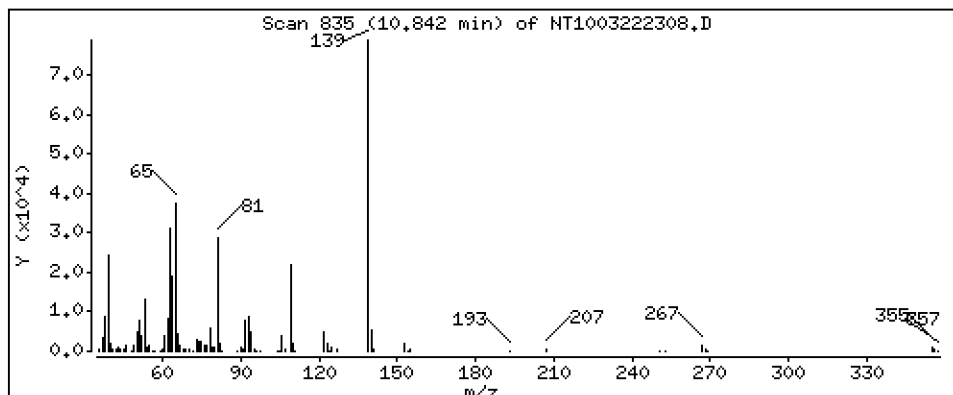
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 5,145 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

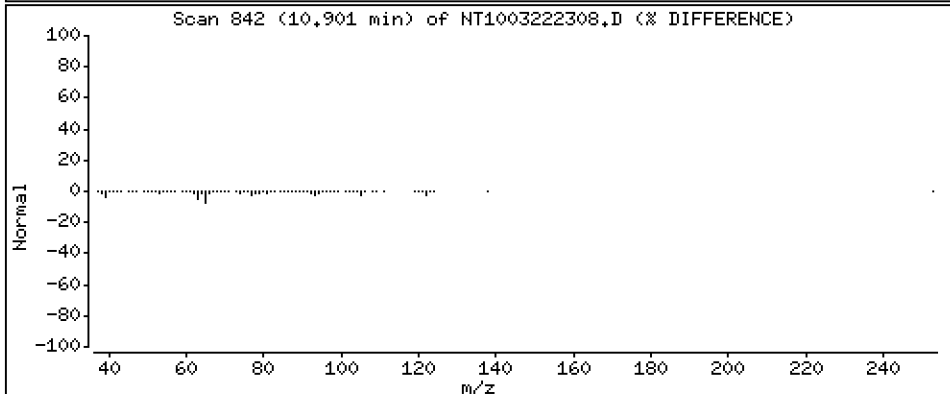
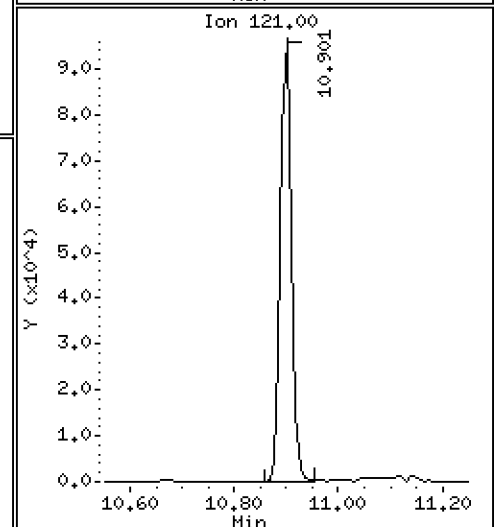
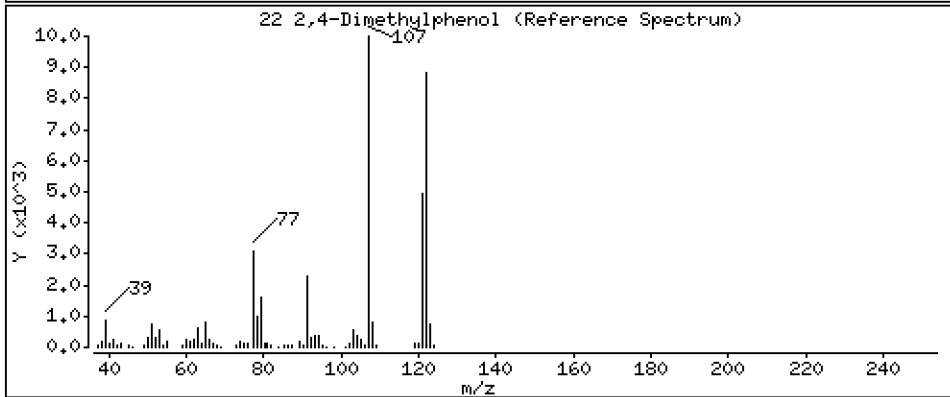
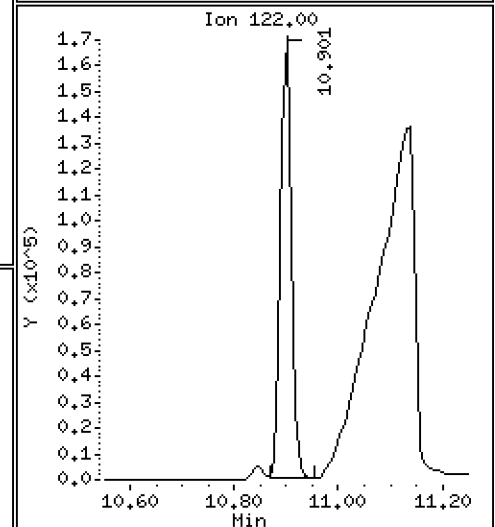
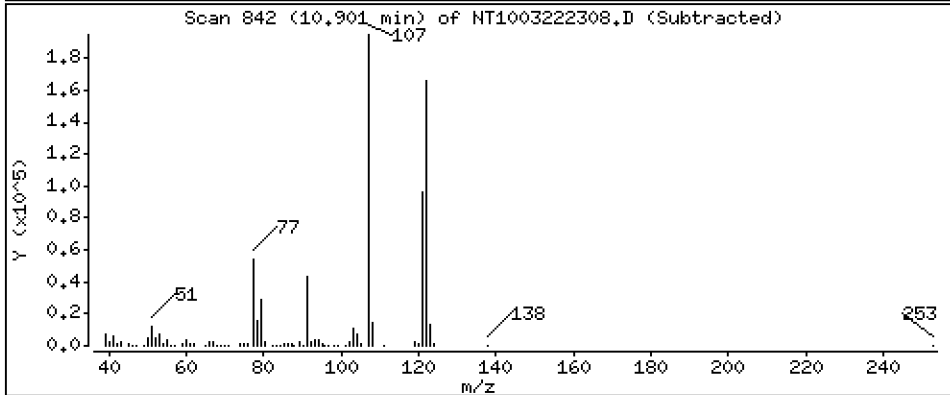
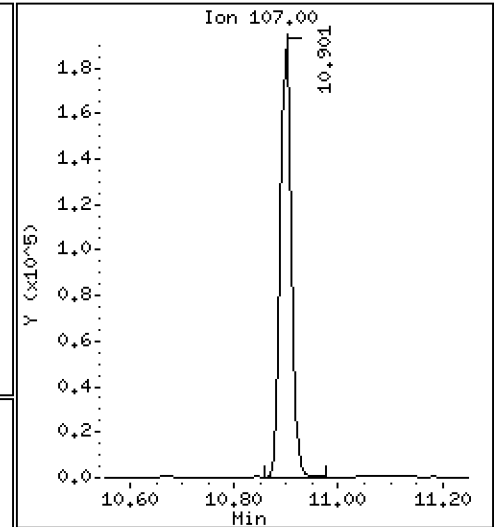
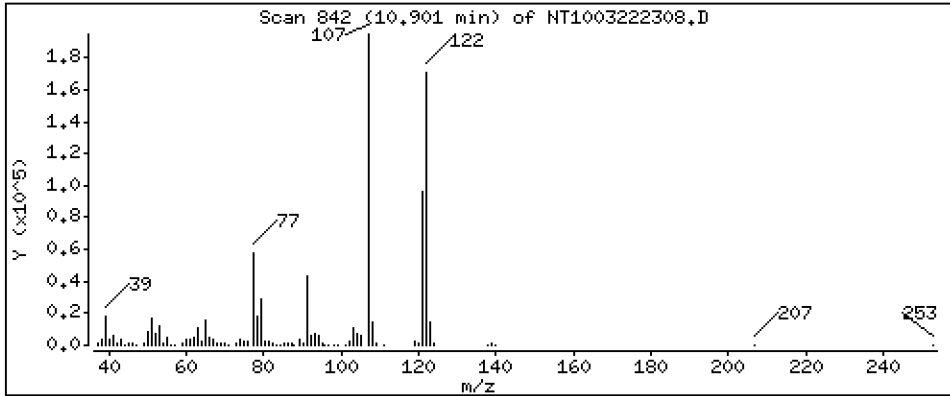
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 5,548 ug/mL





Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

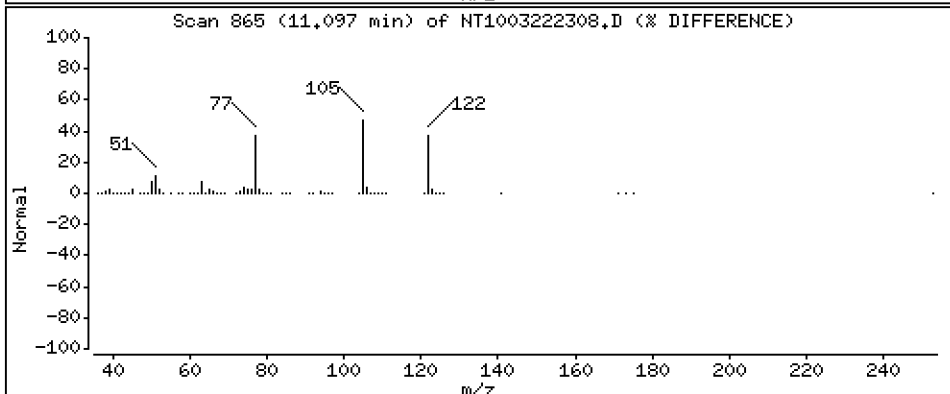
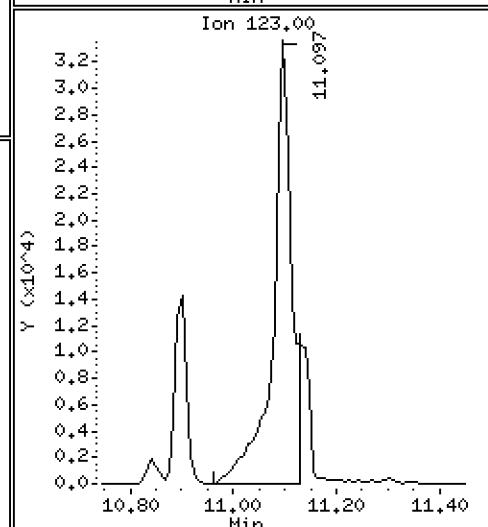
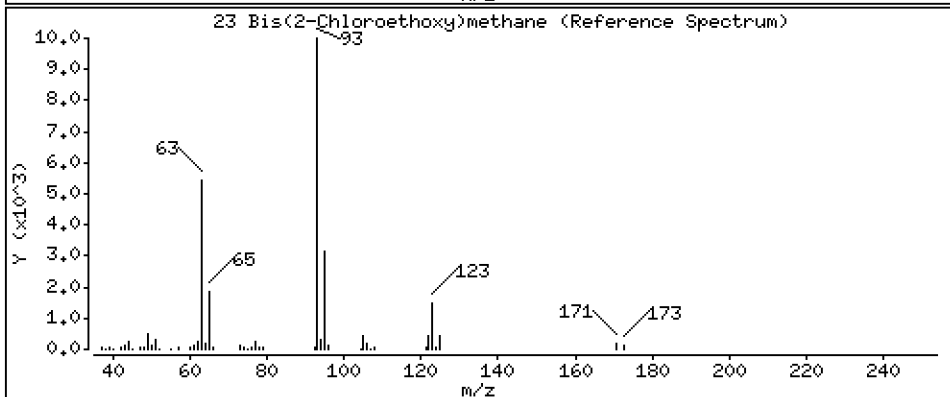
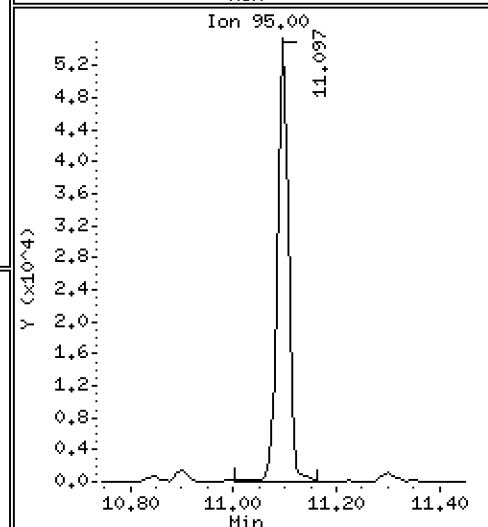
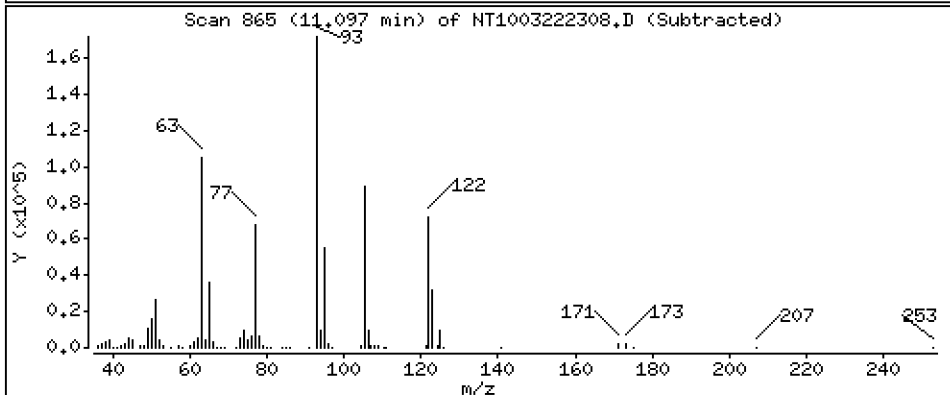
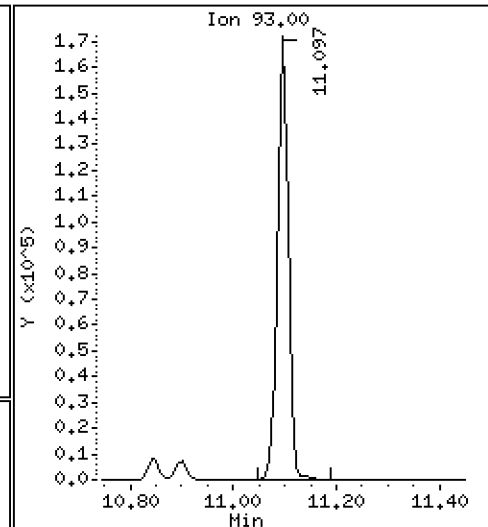
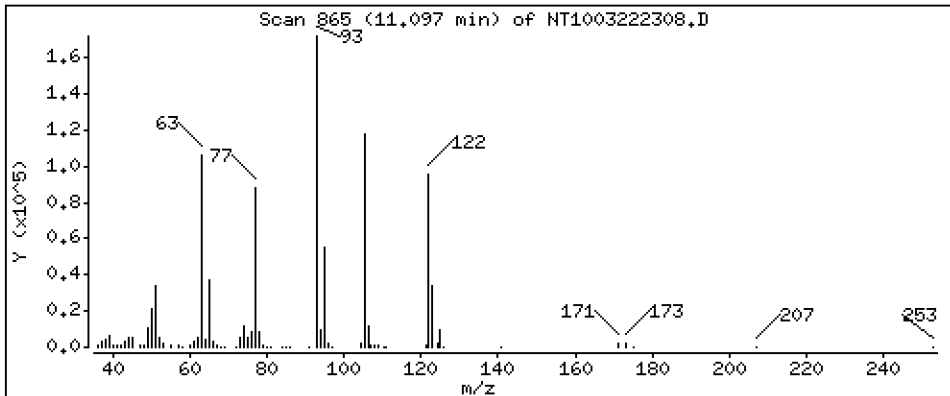
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,173 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

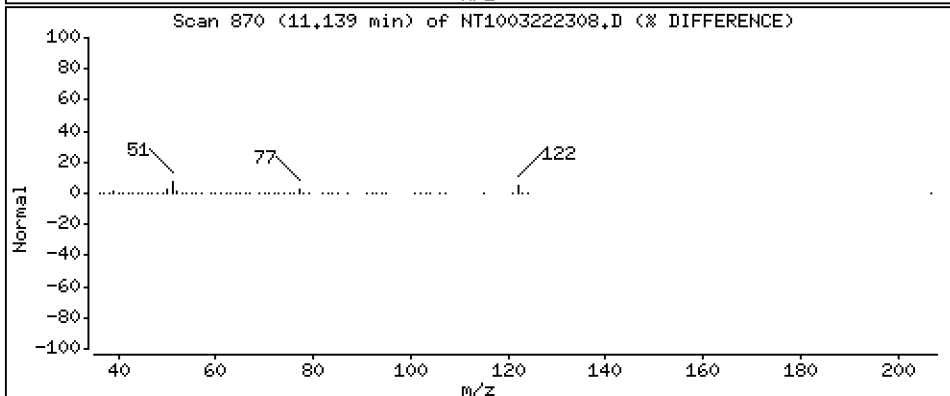
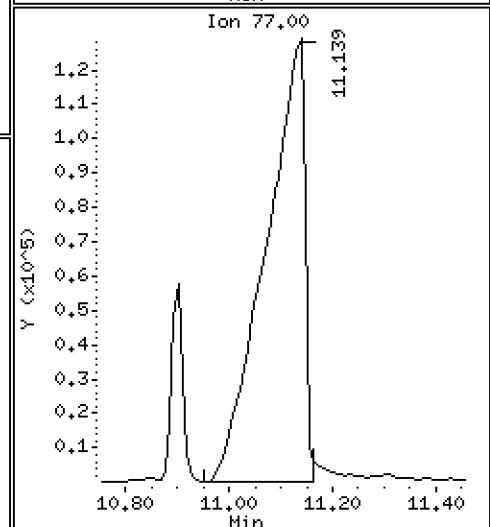
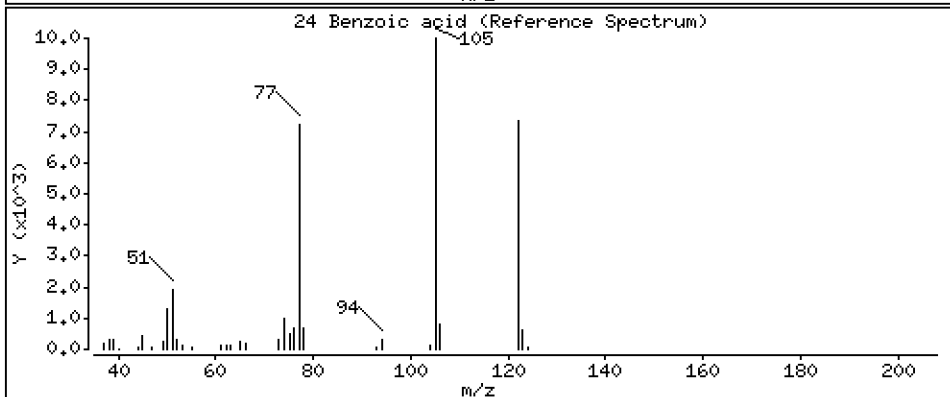
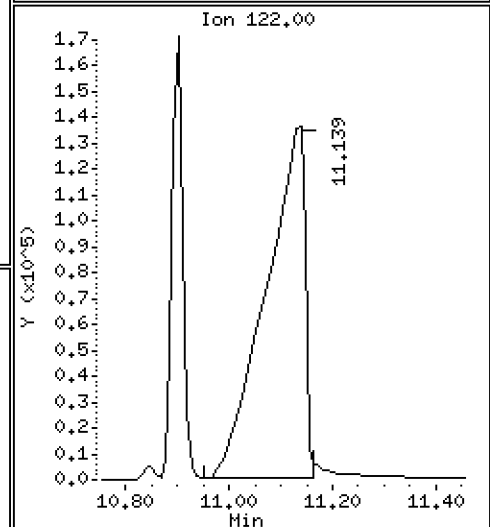
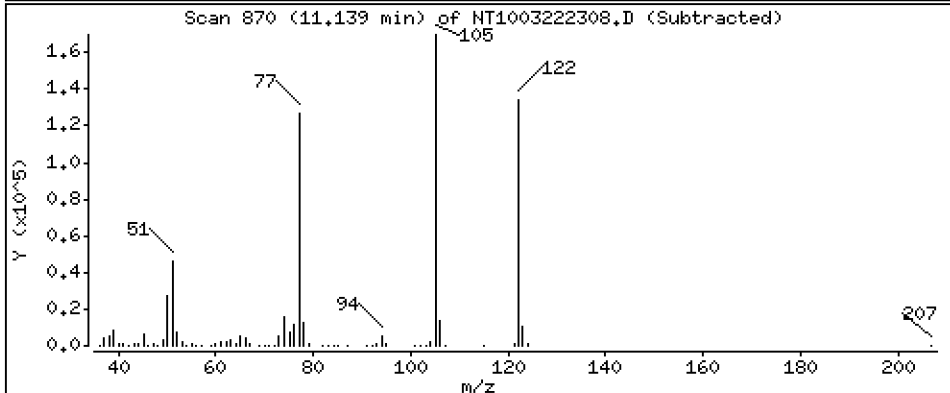
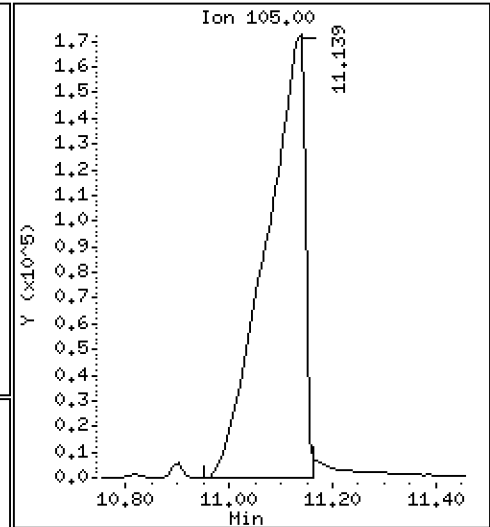
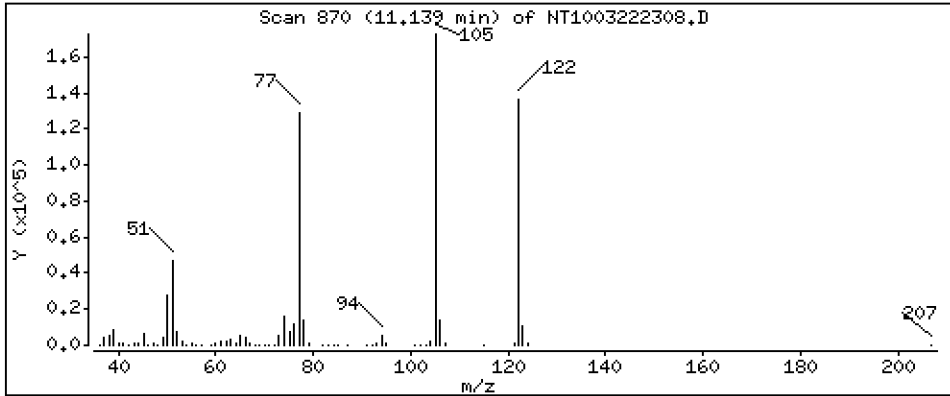
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 29,74 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

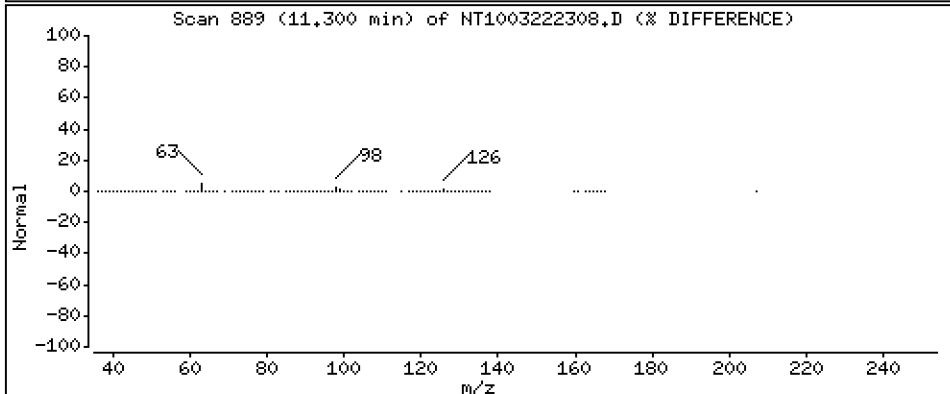
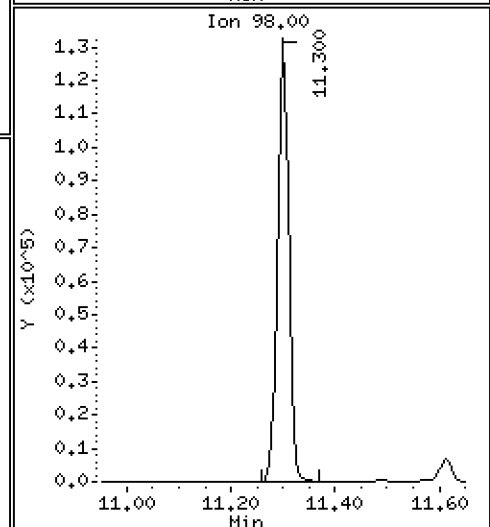
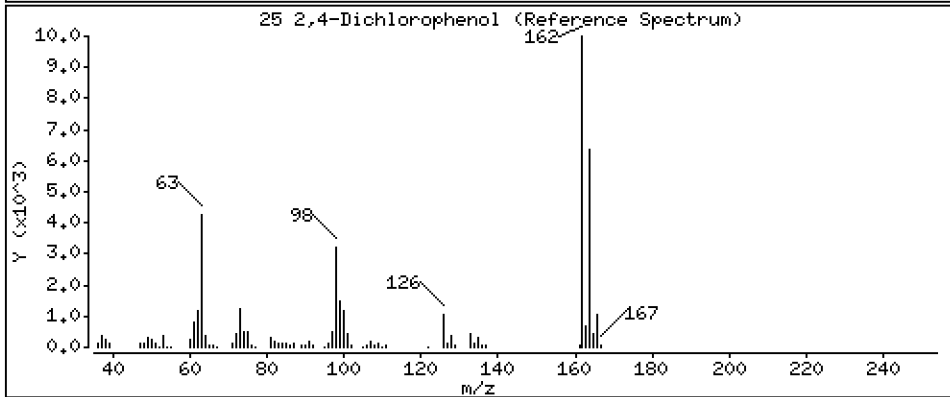
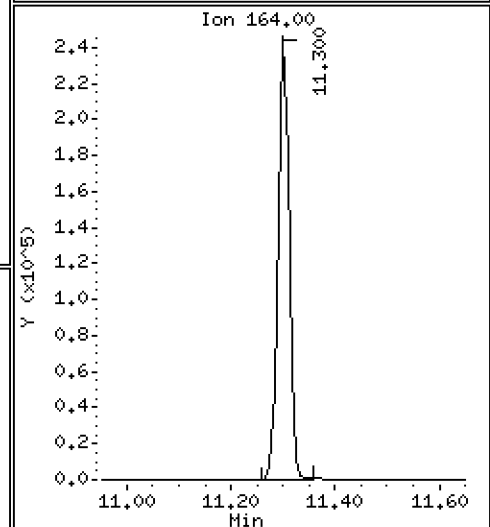
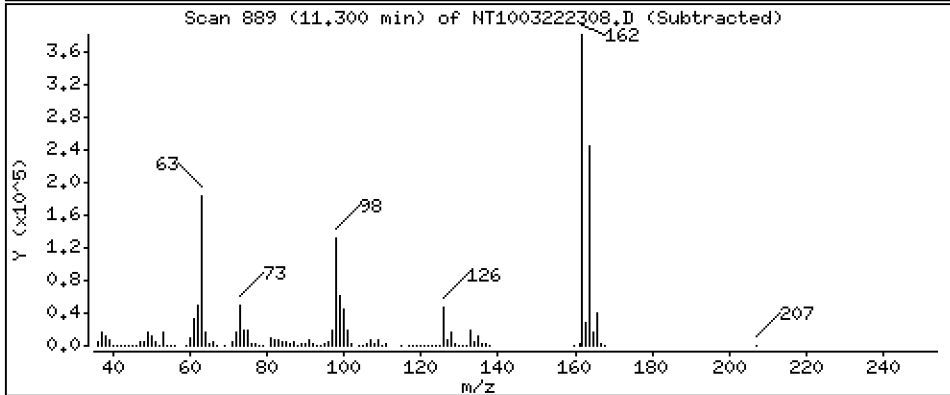
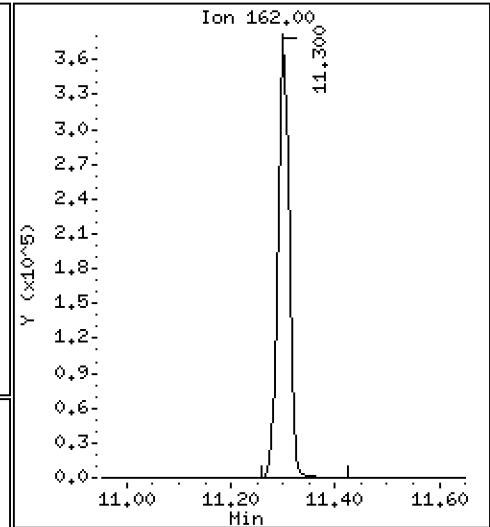
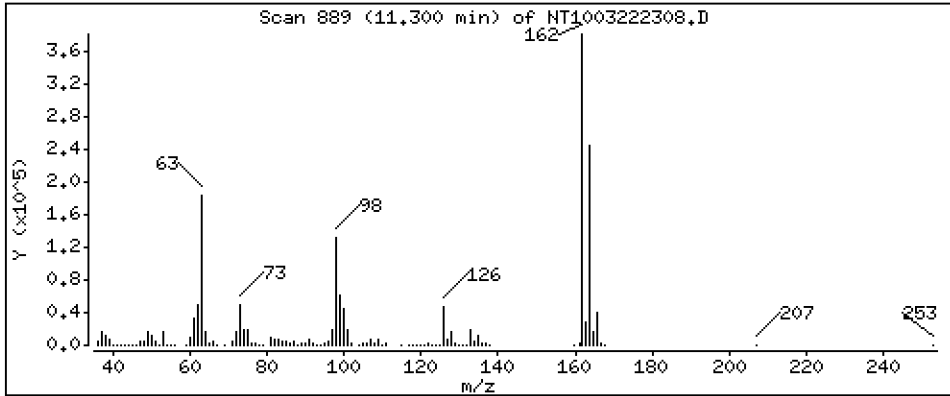
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 15,27 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

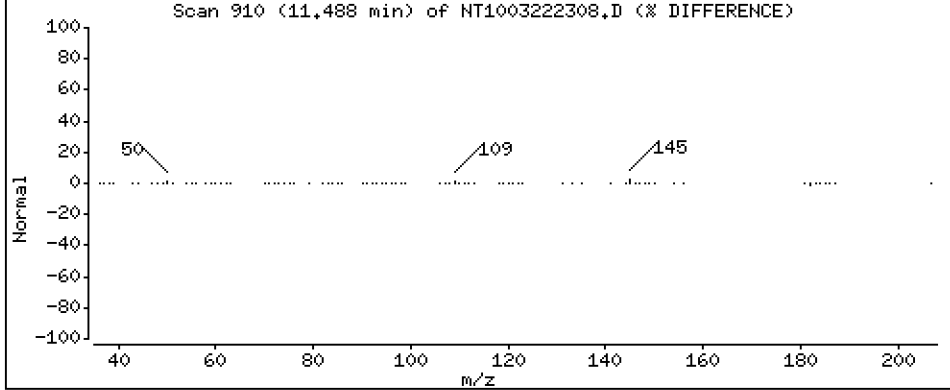
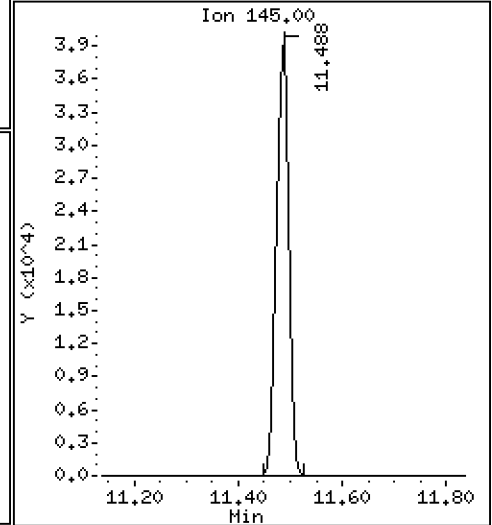
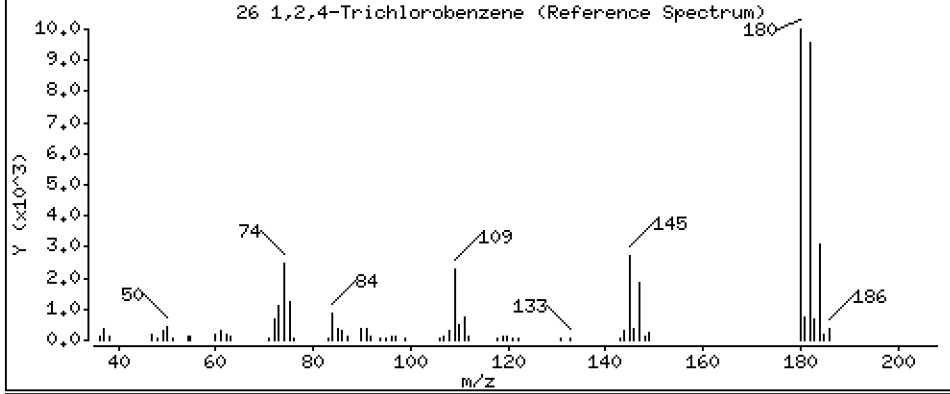
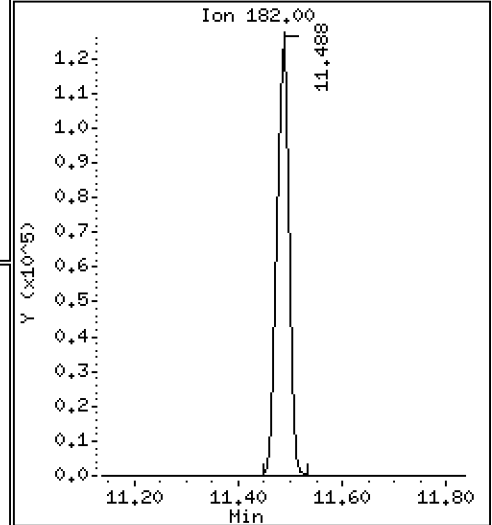
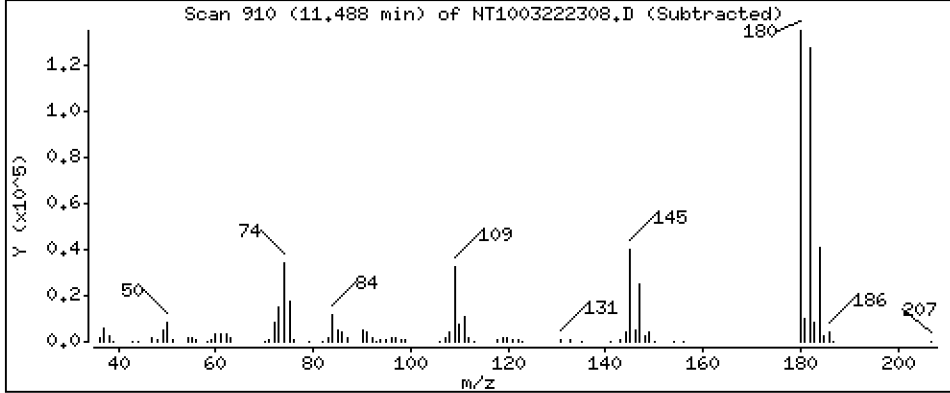
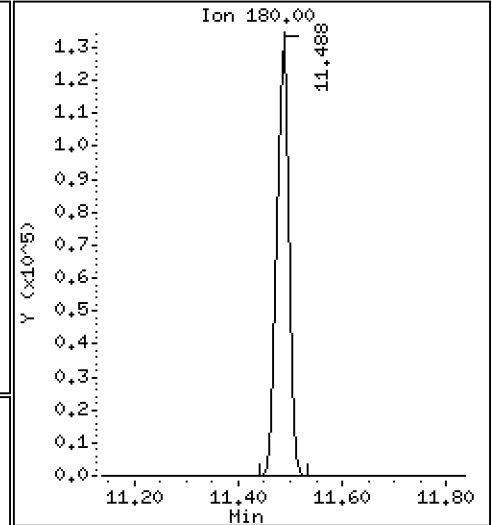
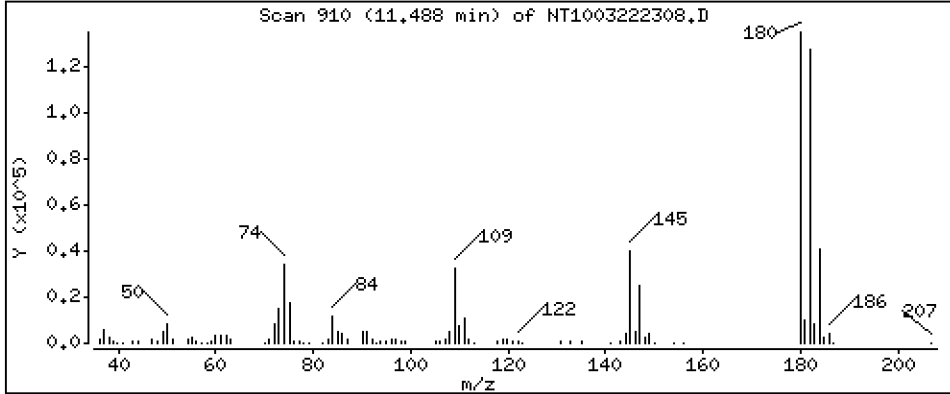
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,321 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

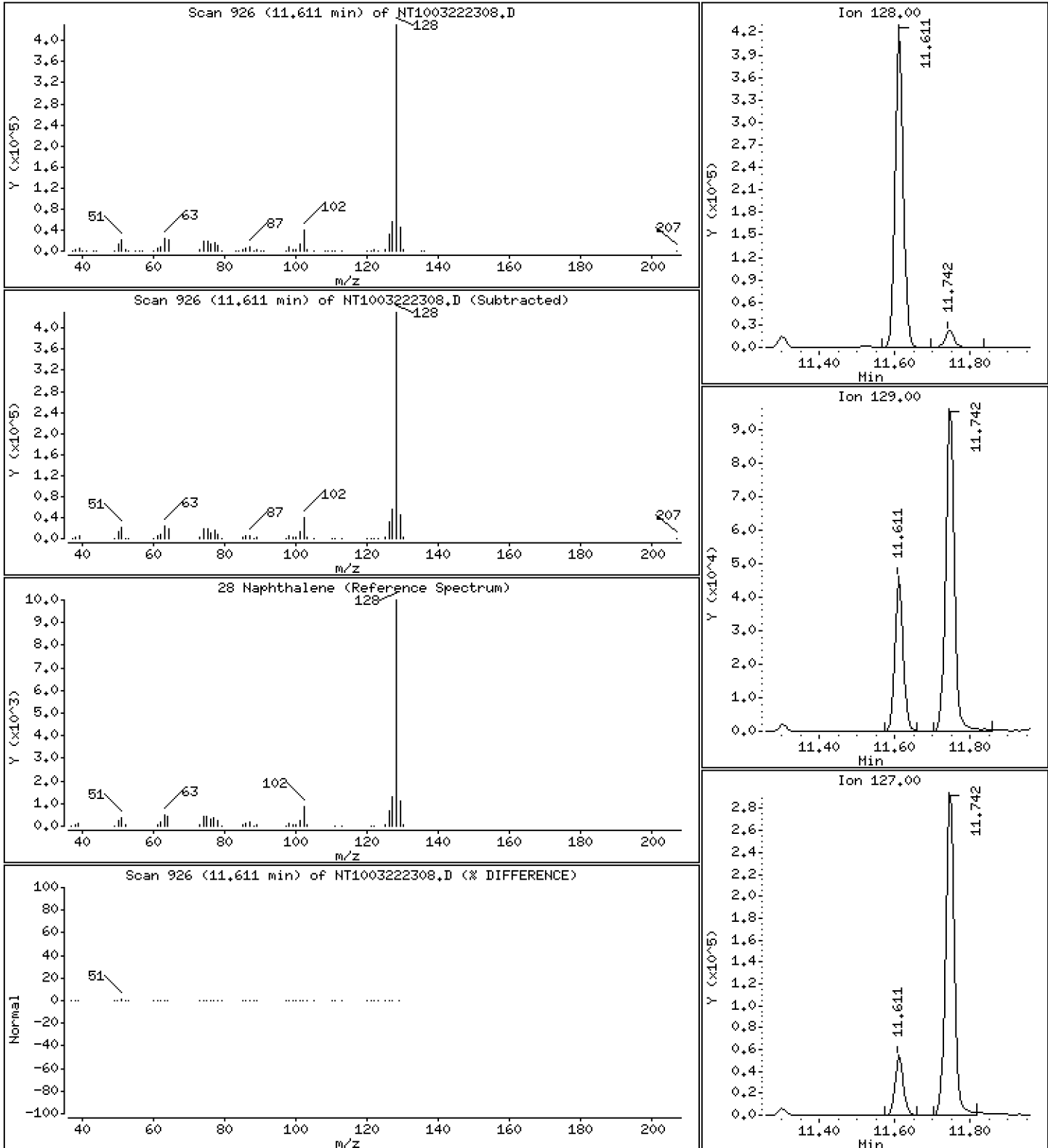
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,322 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

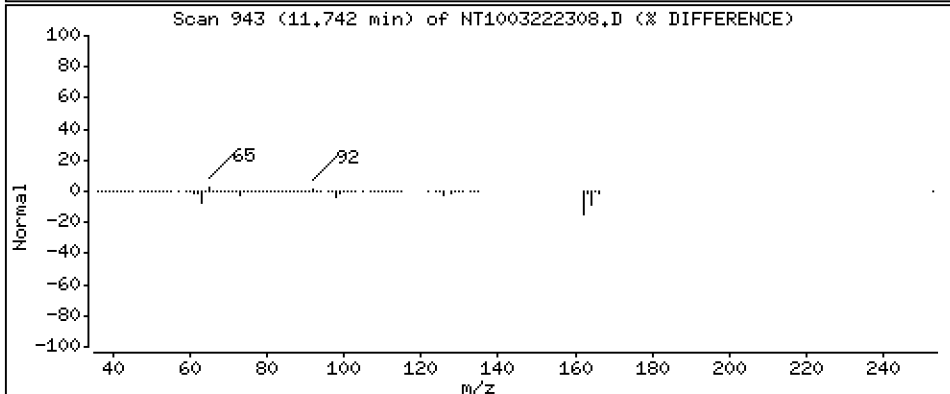
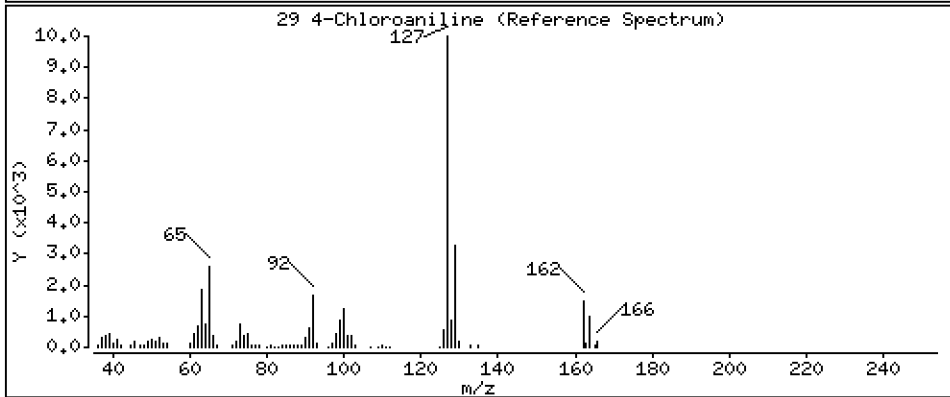
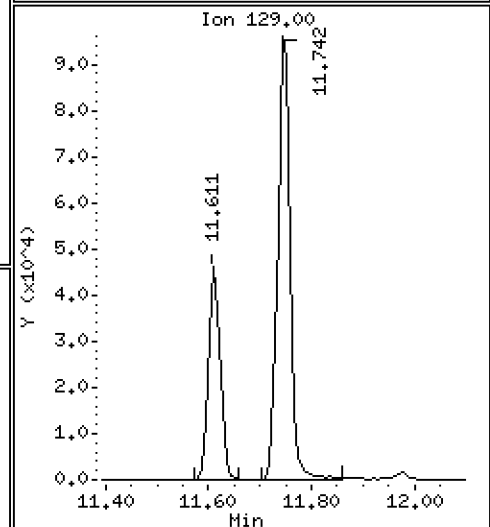
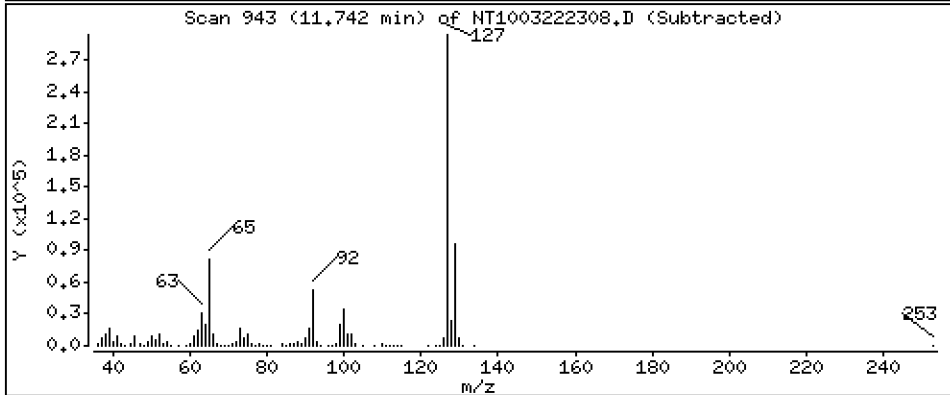
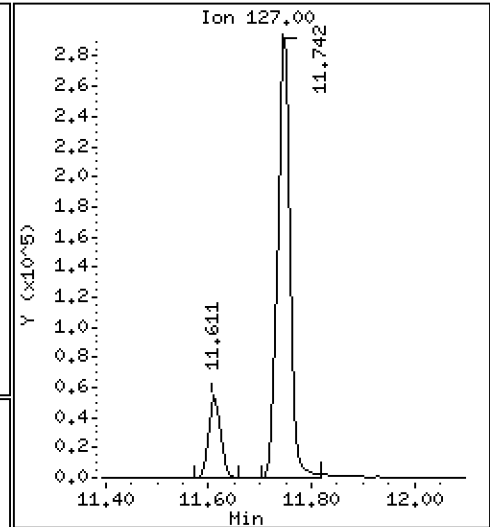
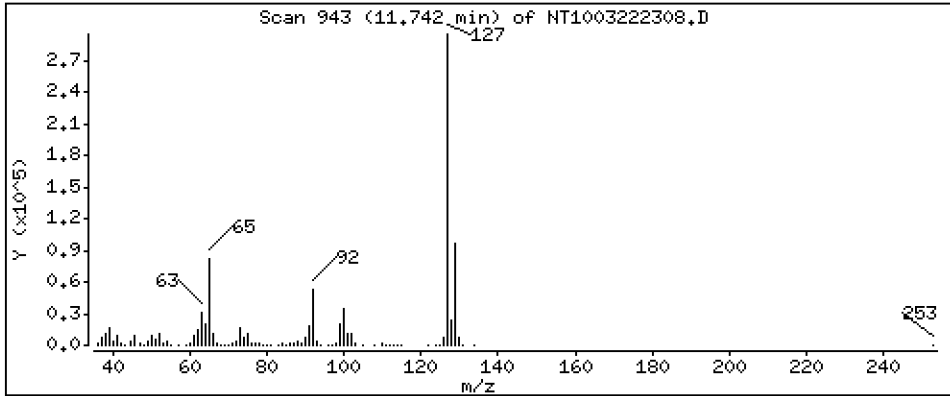
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 8,416 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

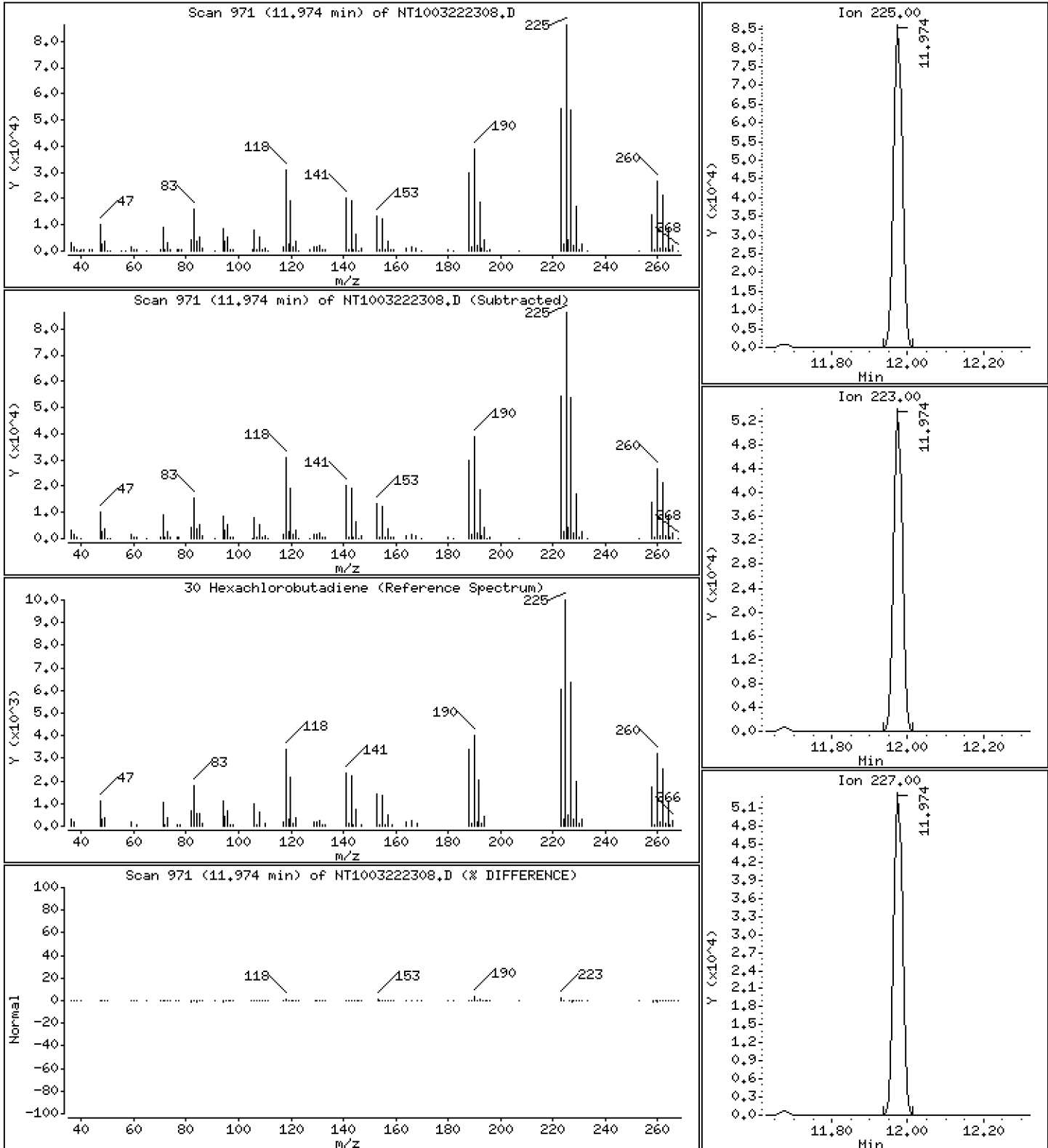
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,653 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

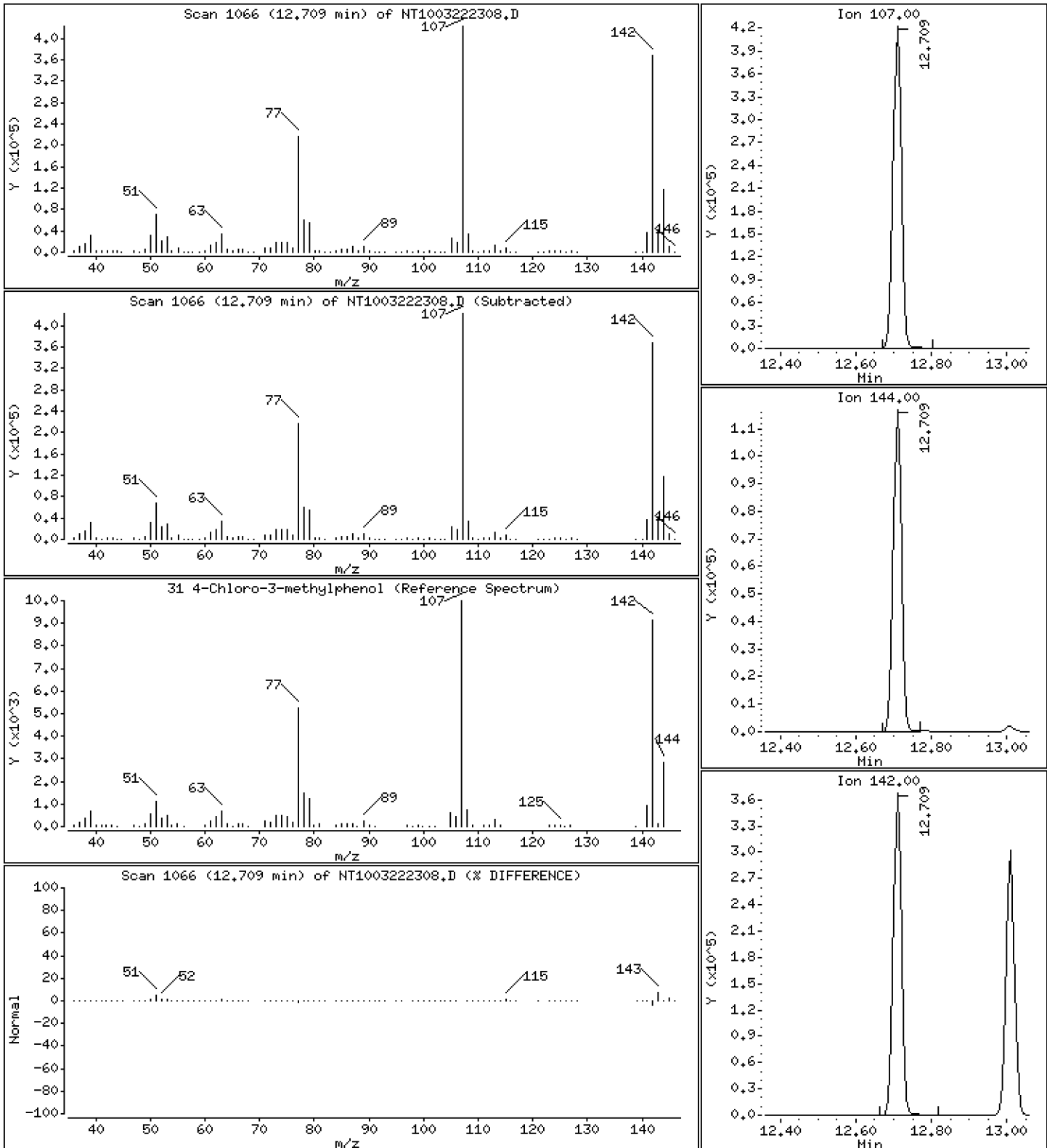
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 13,74 ug/mL





Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

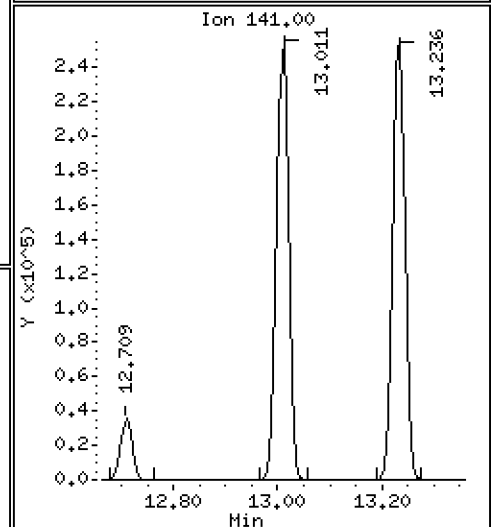
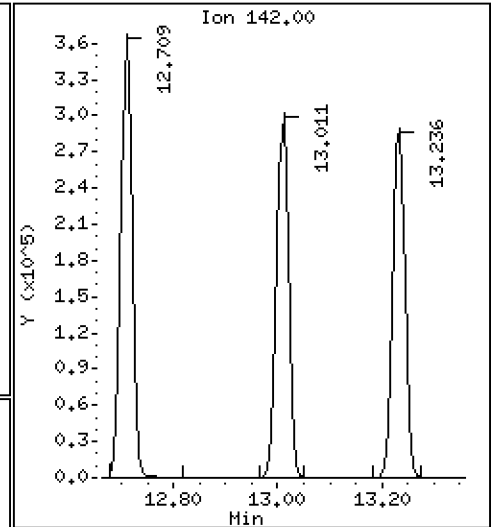
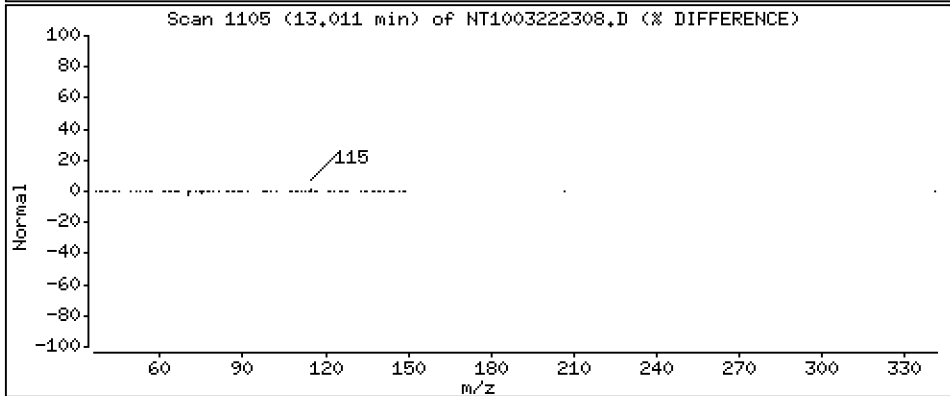
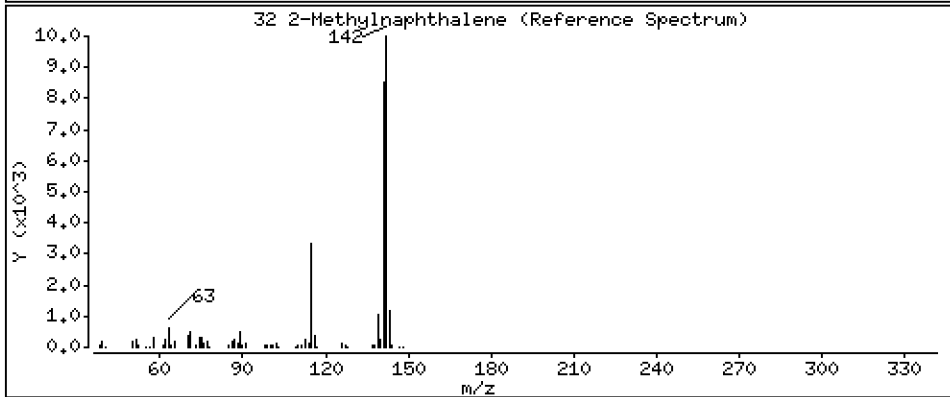
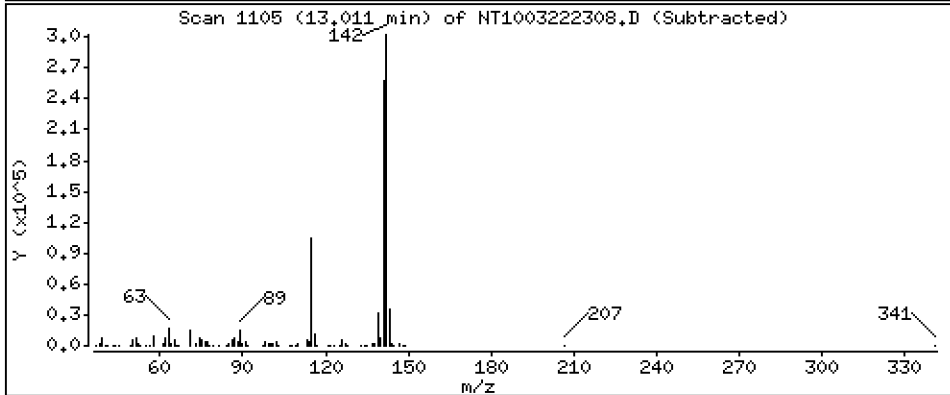
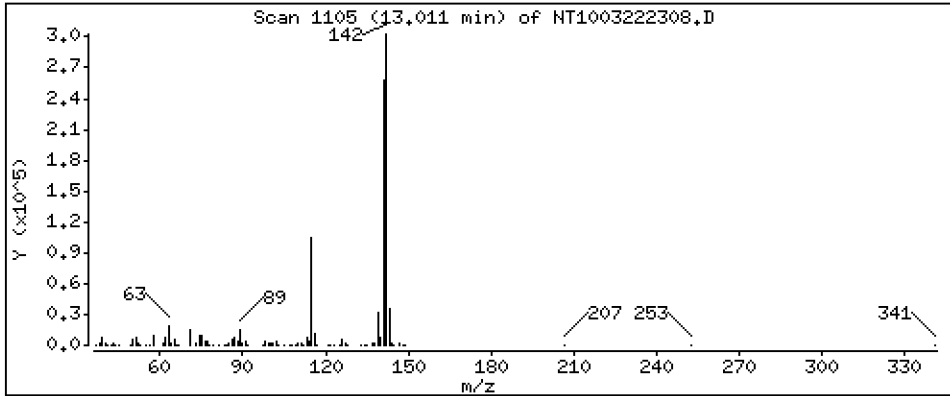
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,312 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

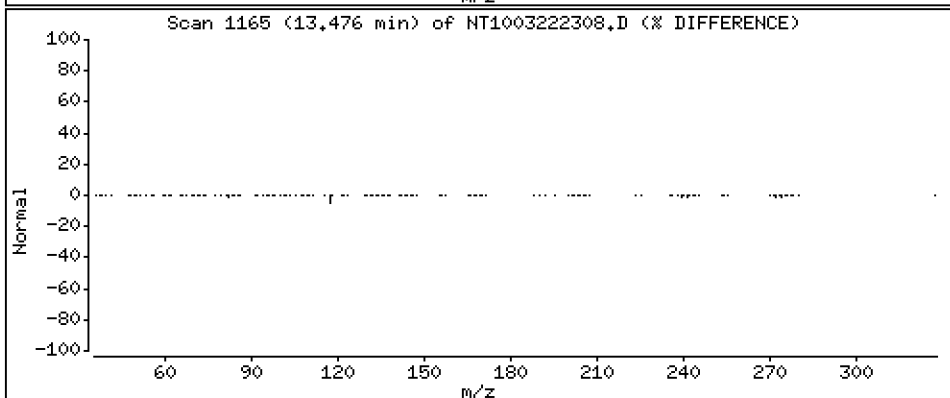
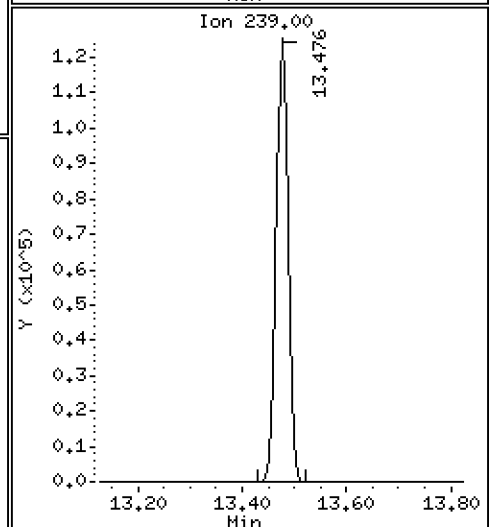
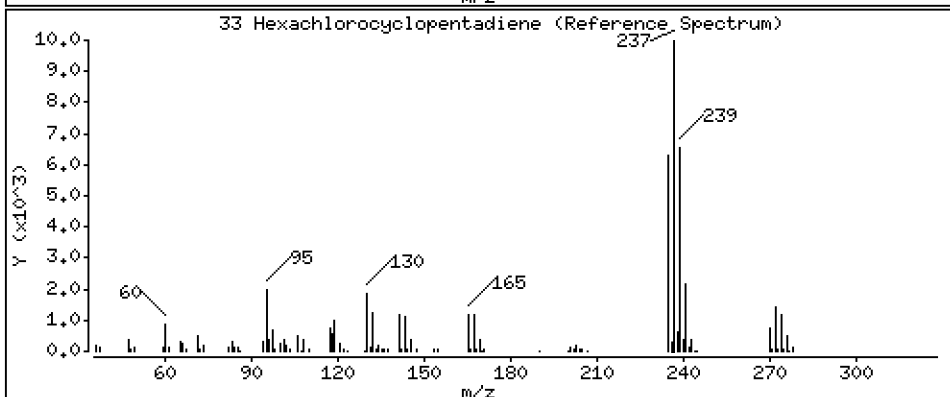
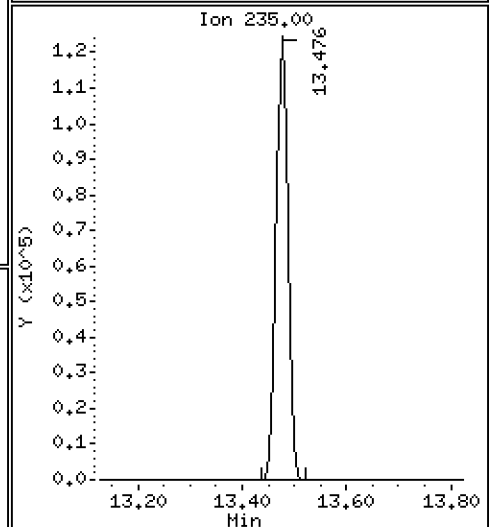
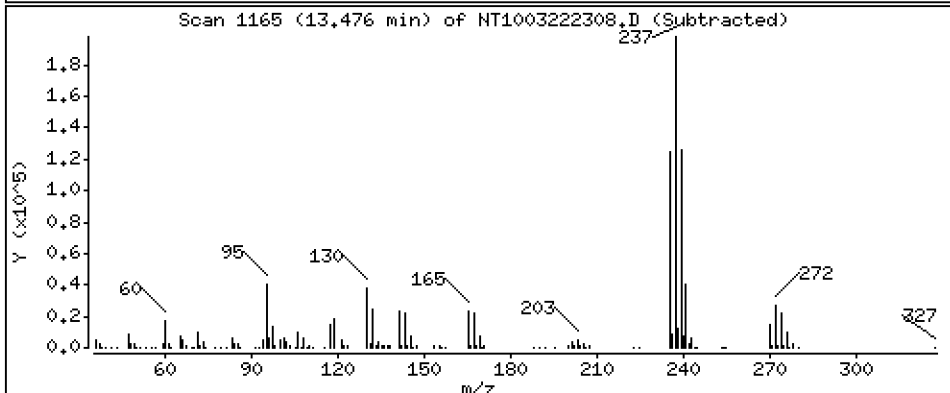
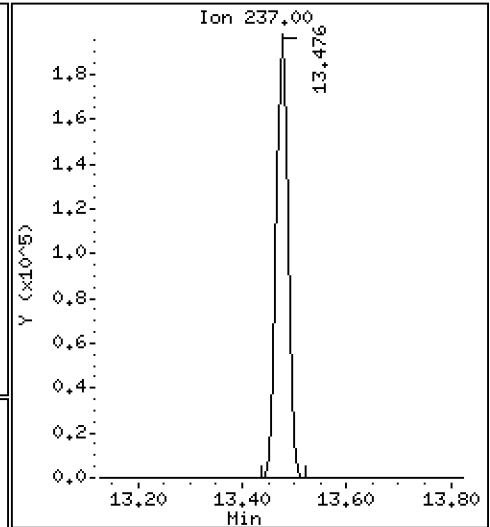
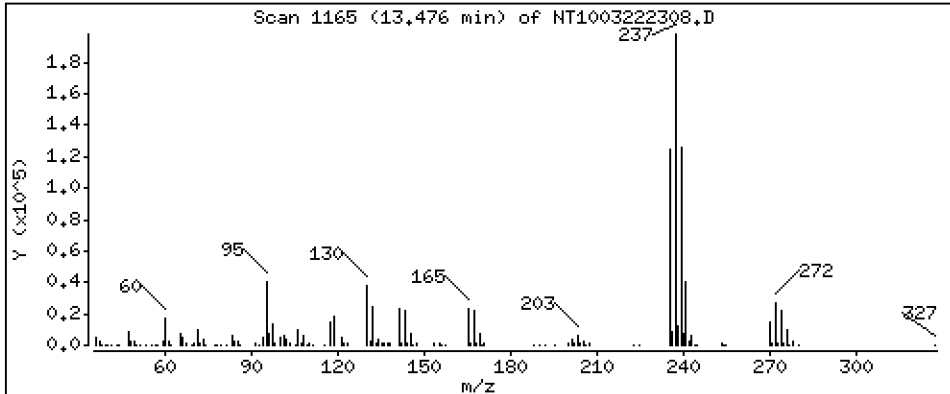
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 10,15 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

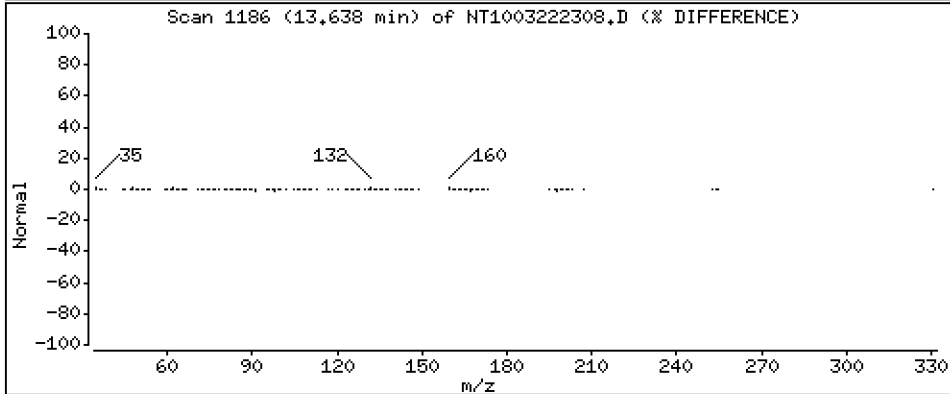
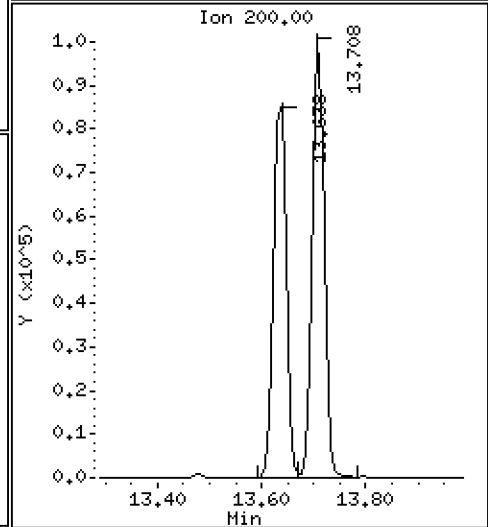
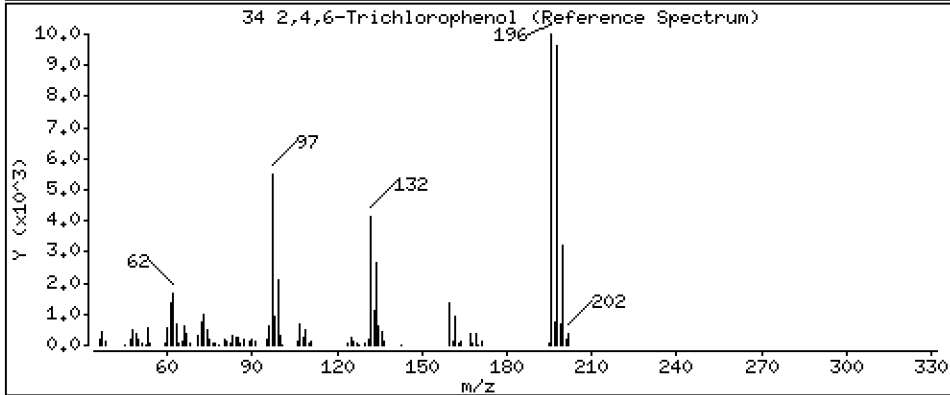
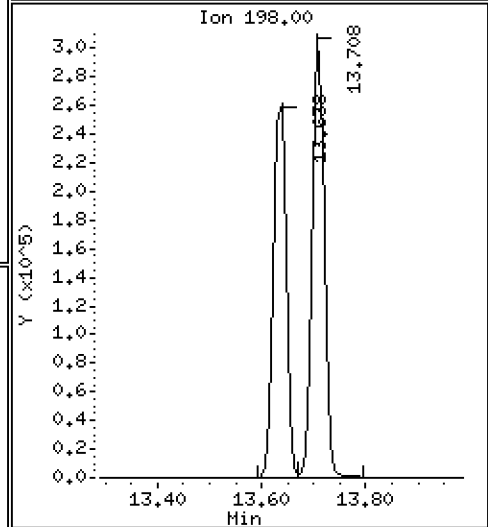
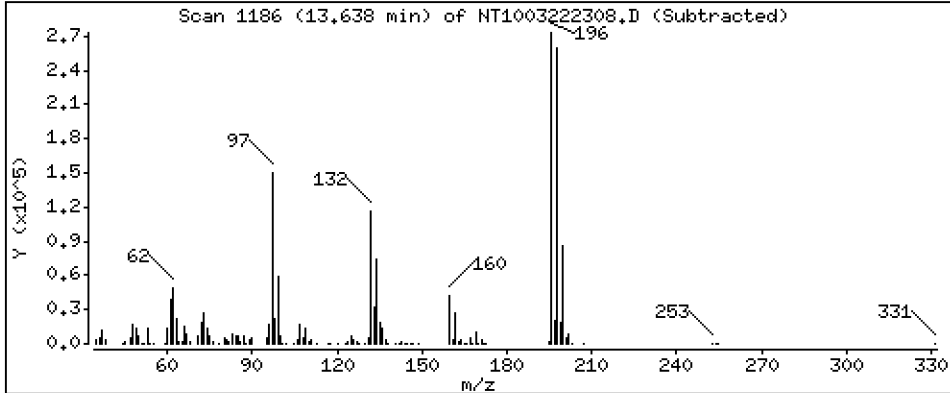
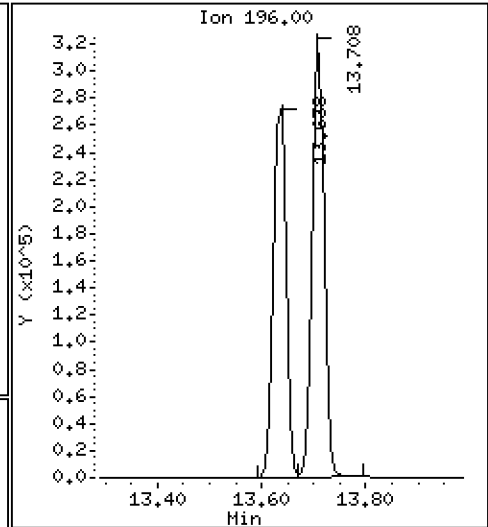
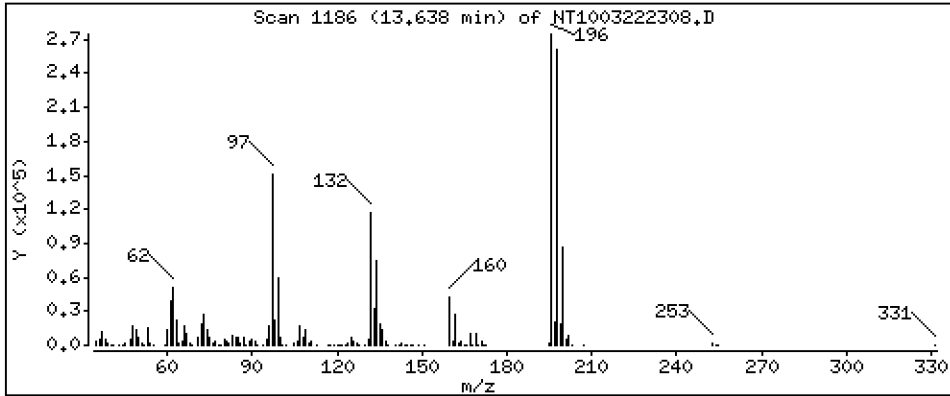
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 14,21 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

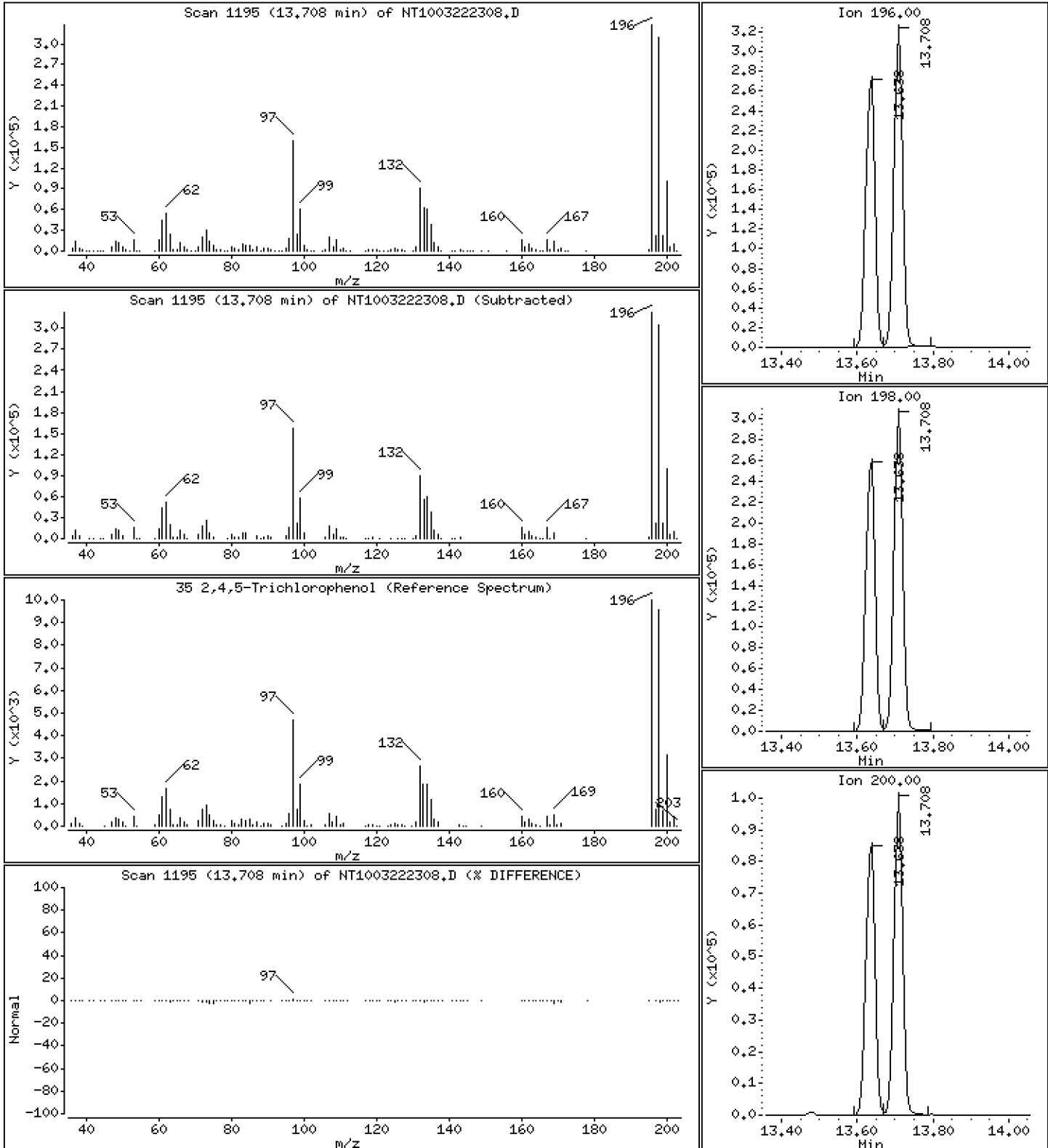
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 13,88 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

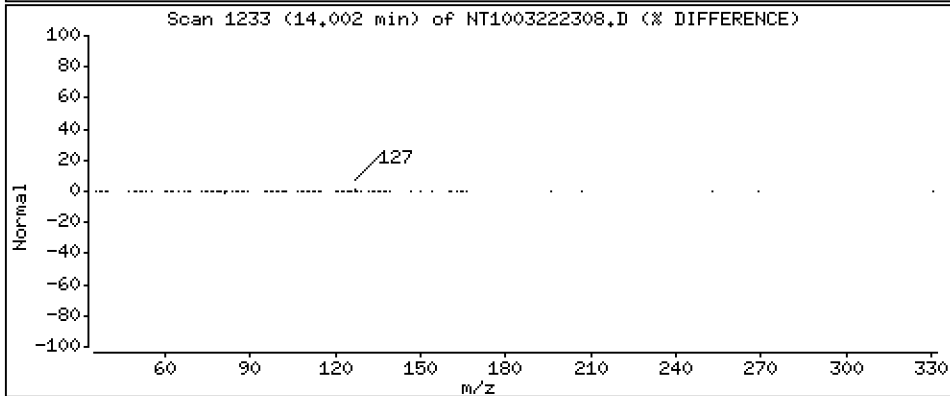
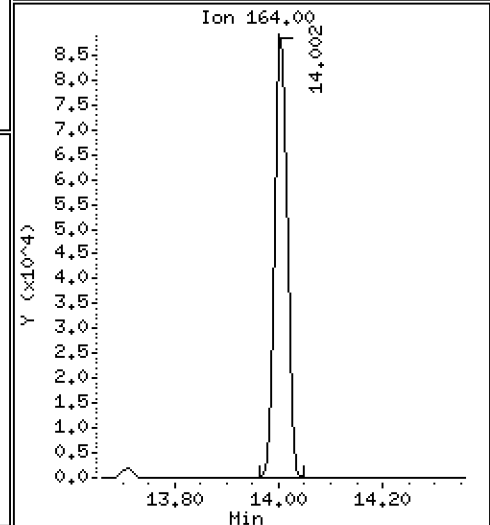
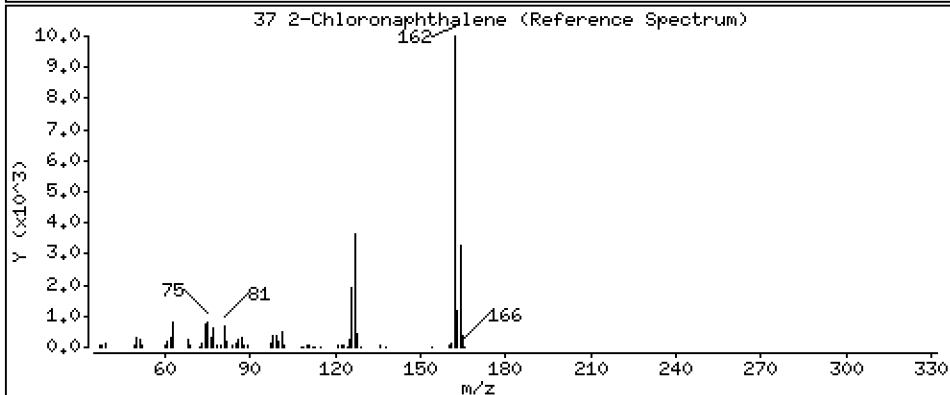
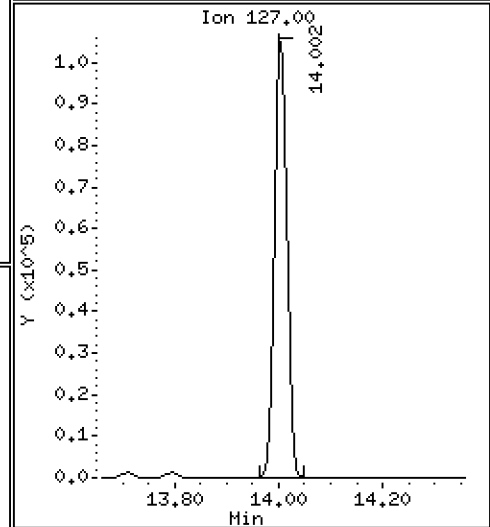
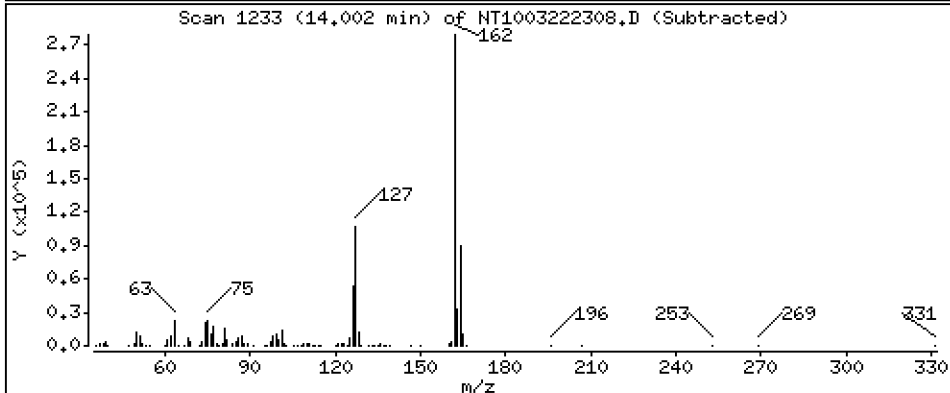
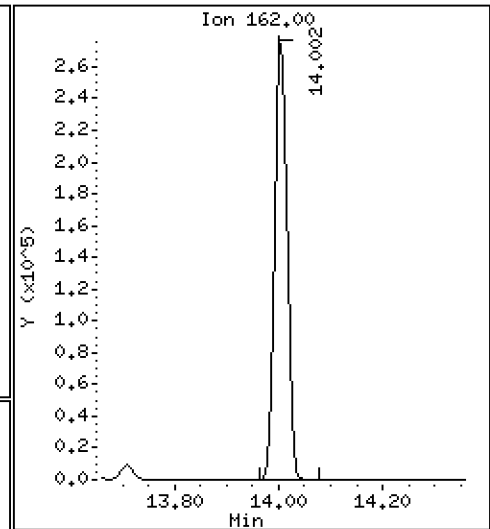
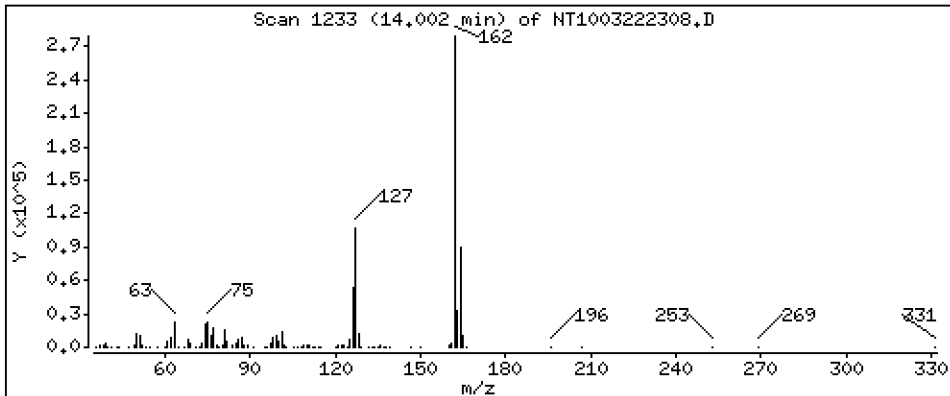
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,385 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

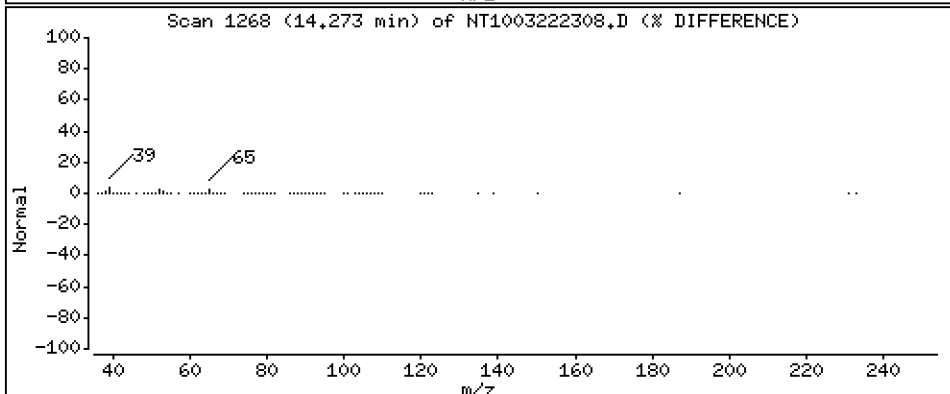
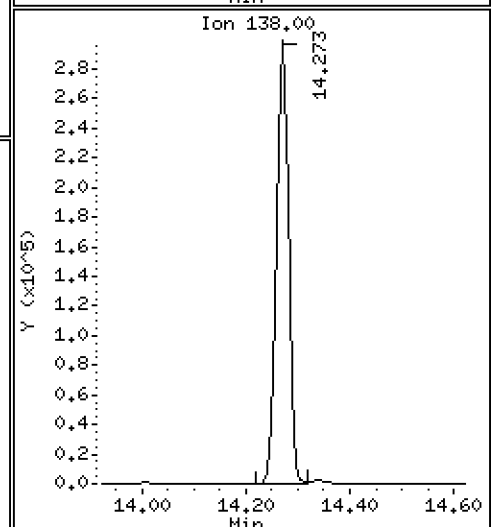
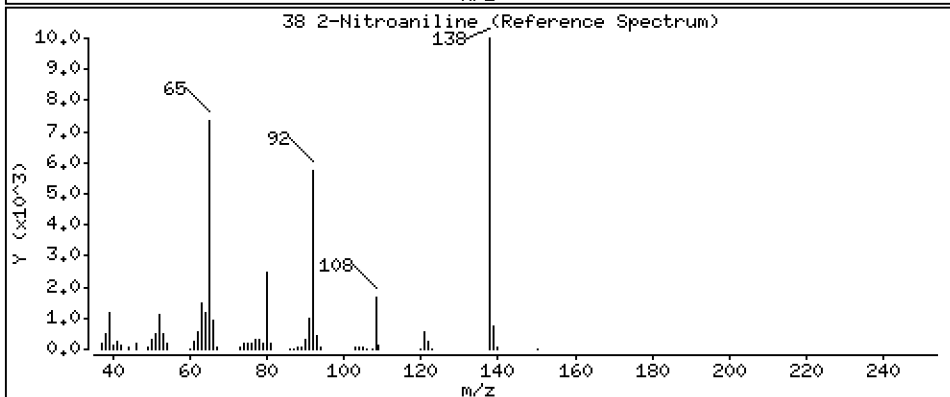
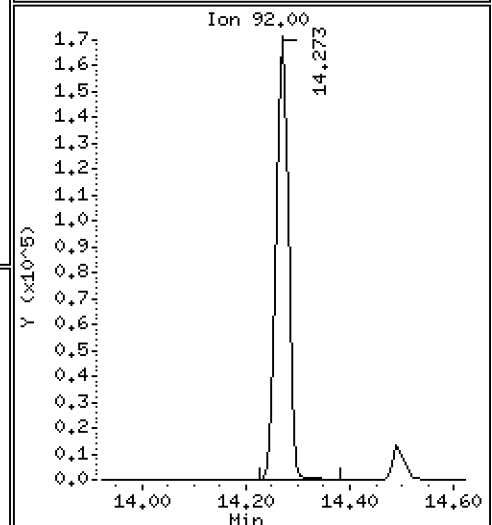
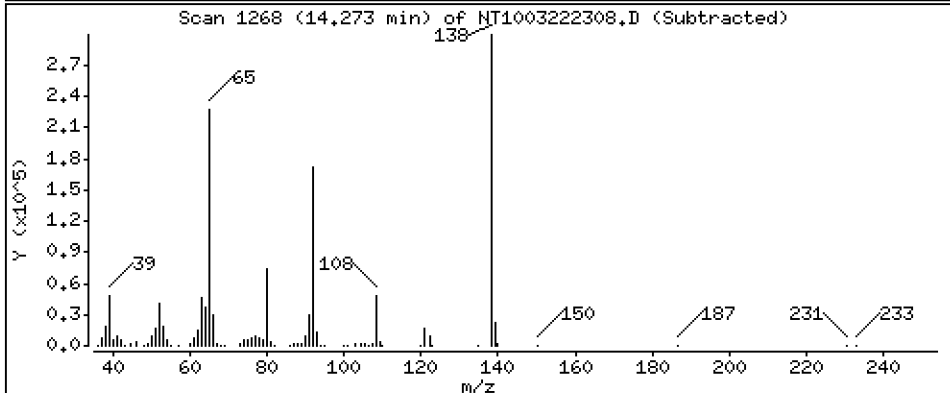
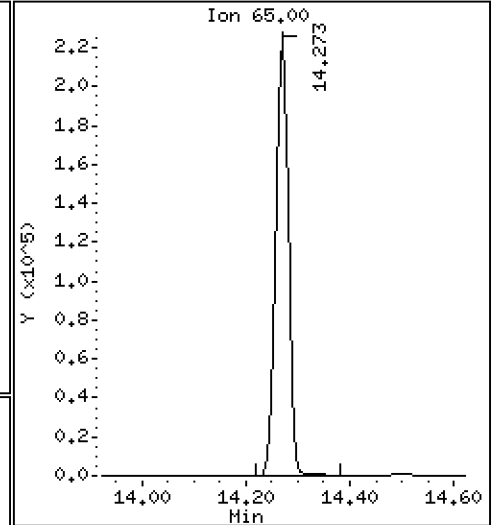
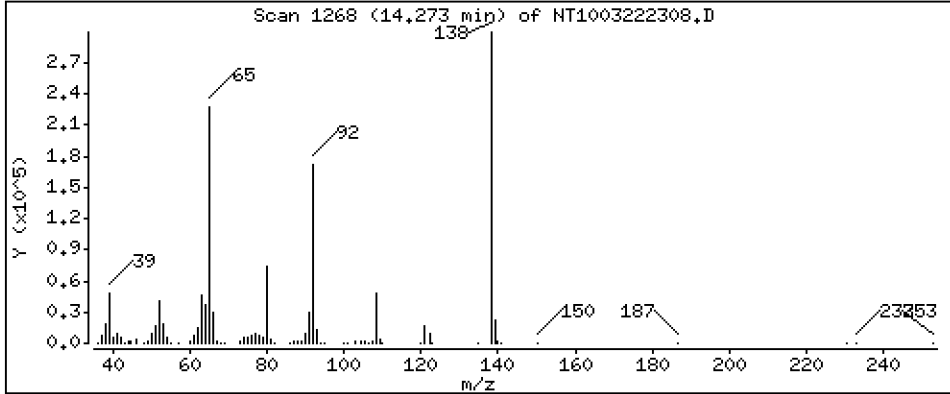
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 12,76 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

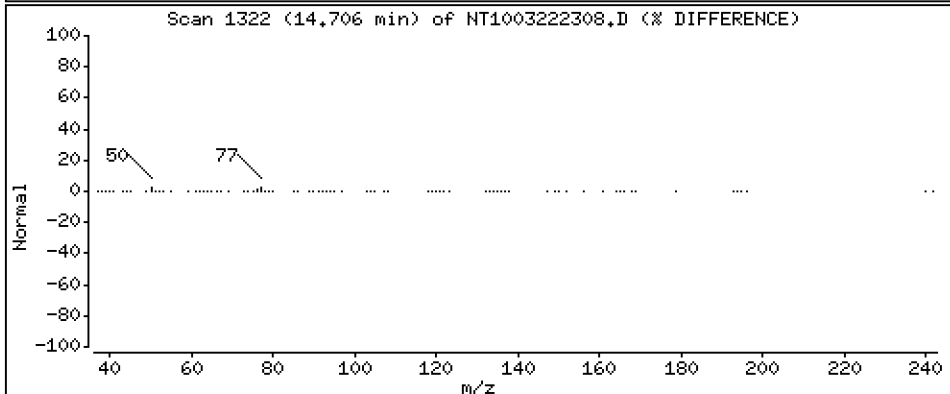
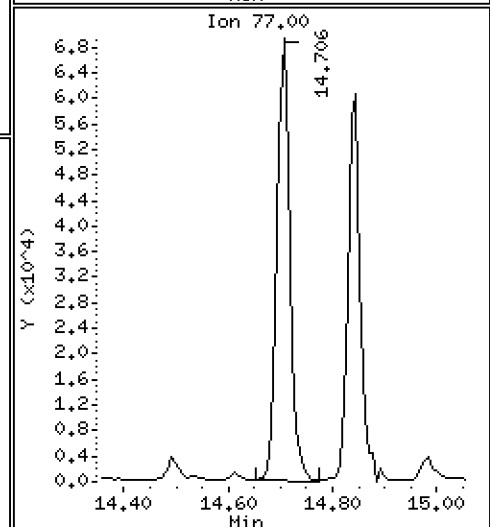
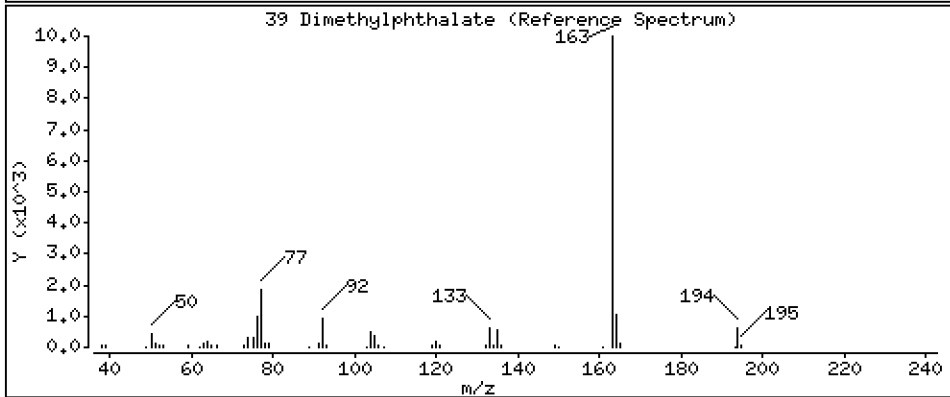
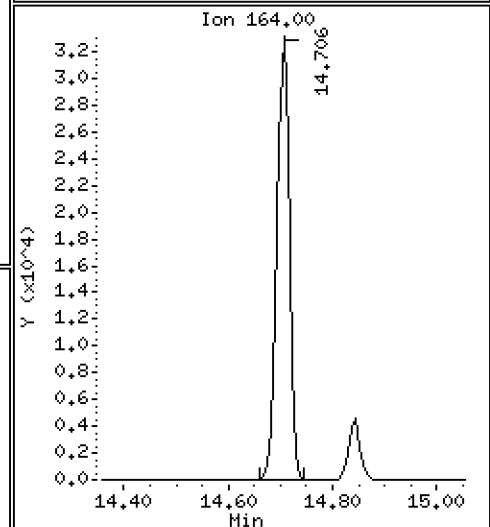
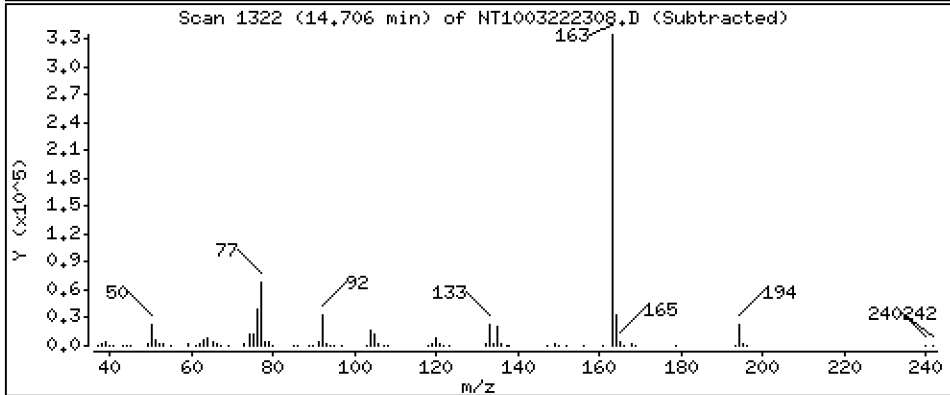
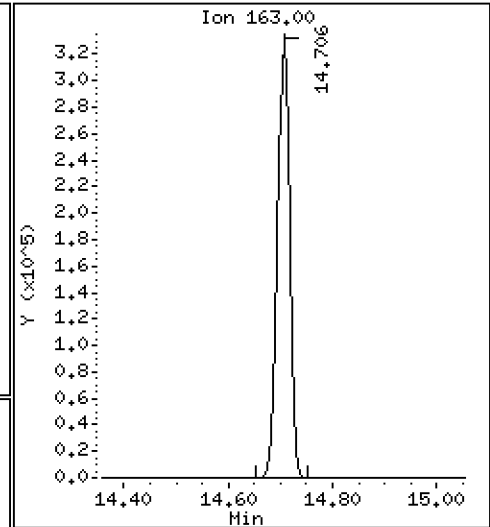
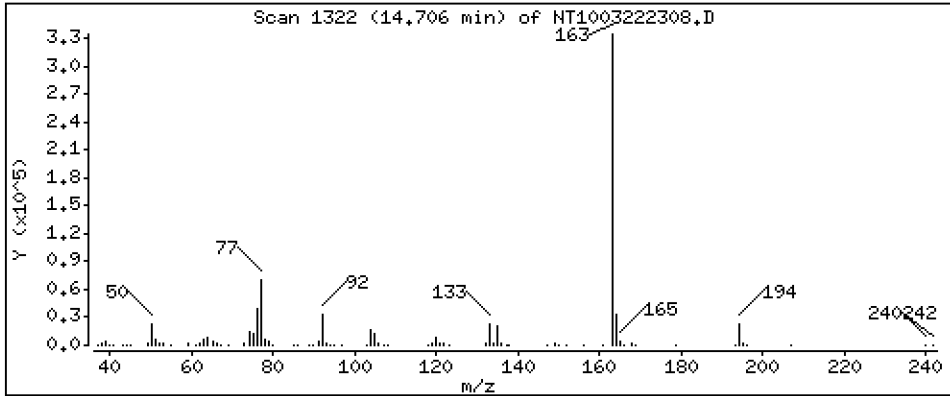
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,020 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

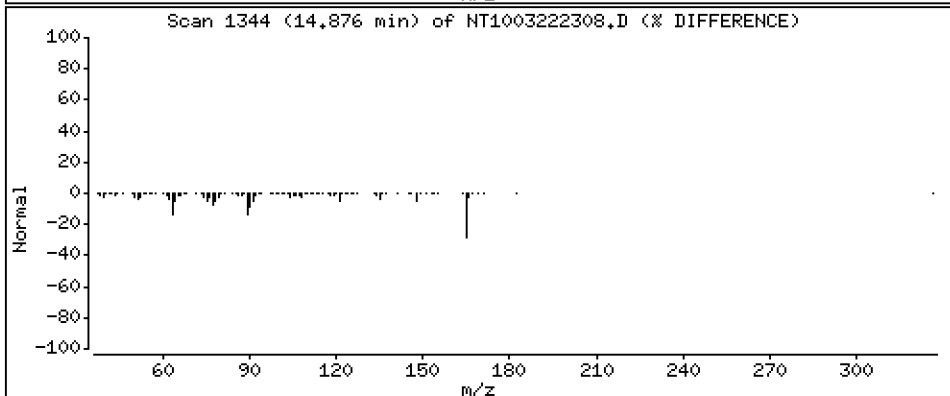
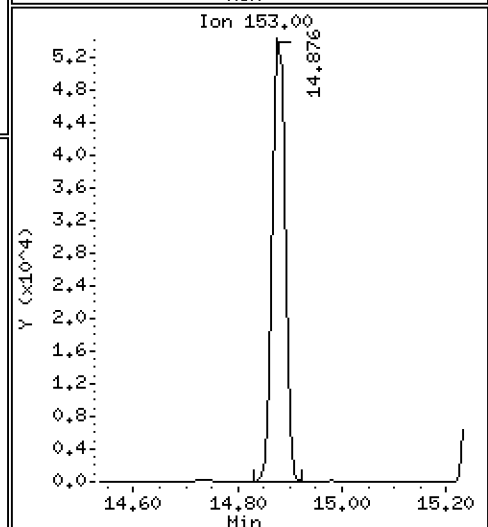
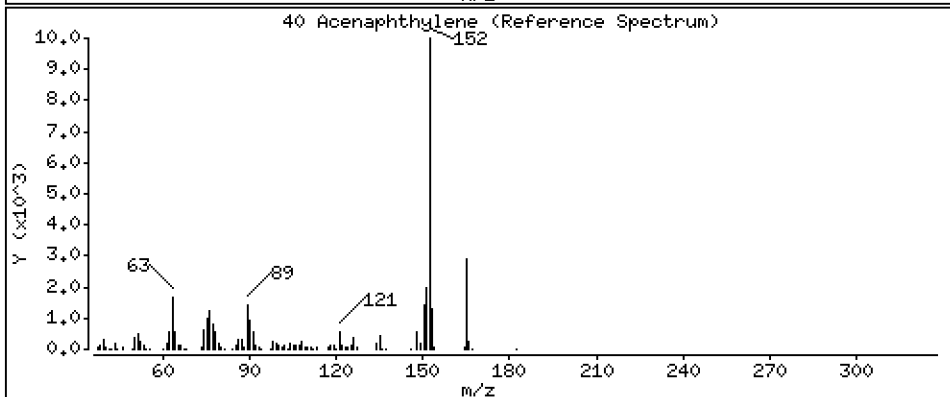
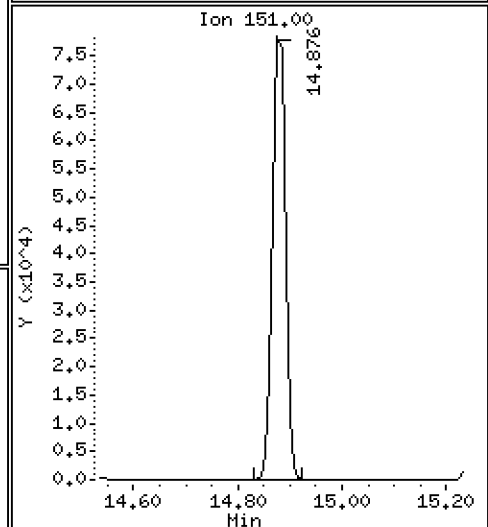
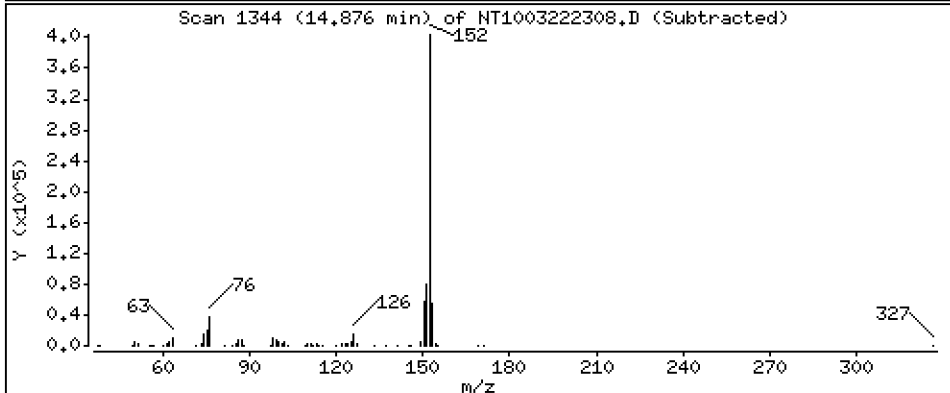
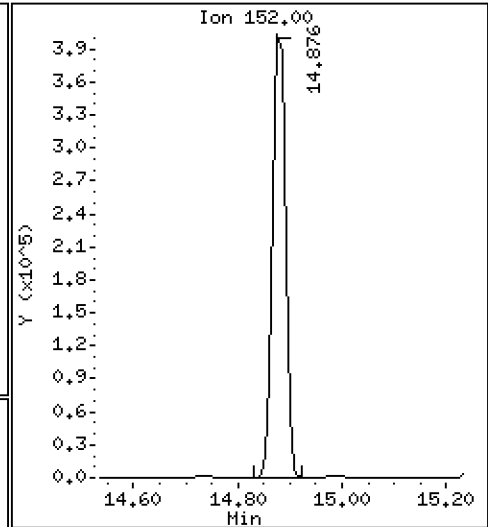
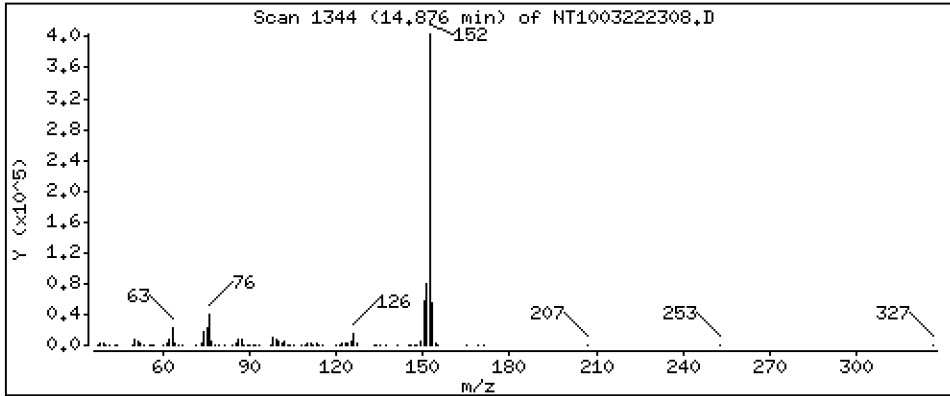
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,240 ug/mL





Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

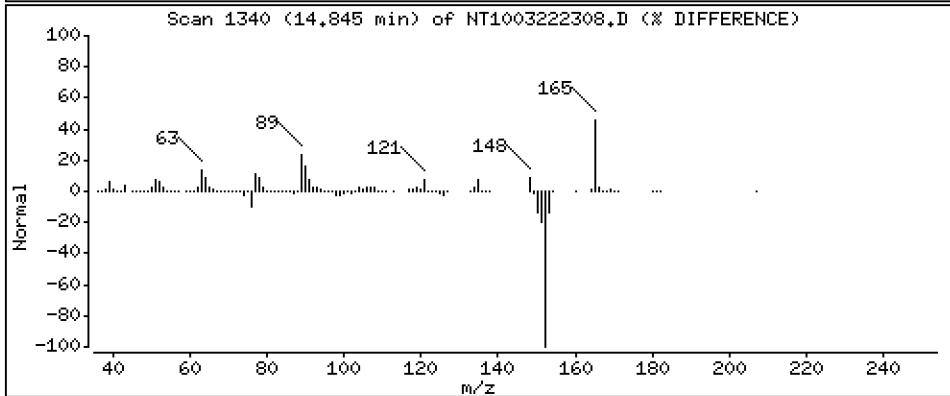
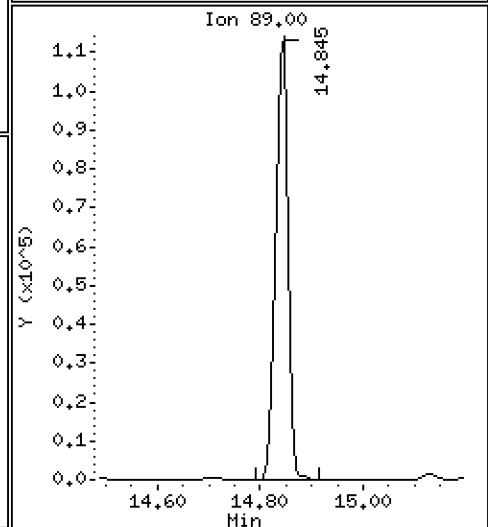
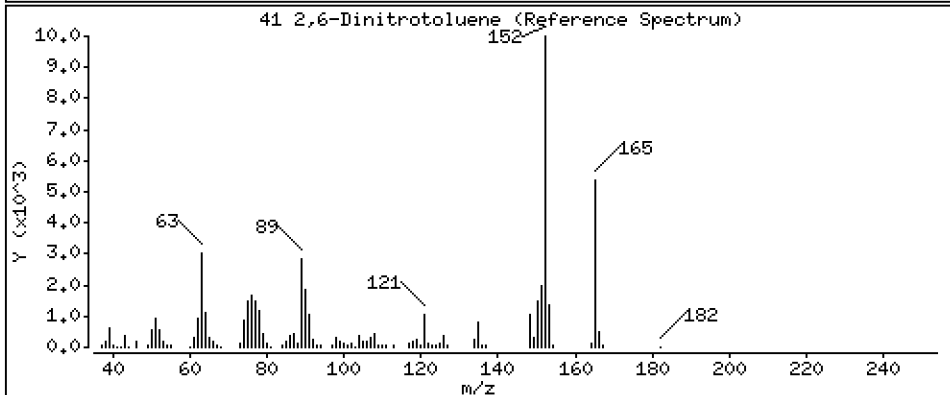
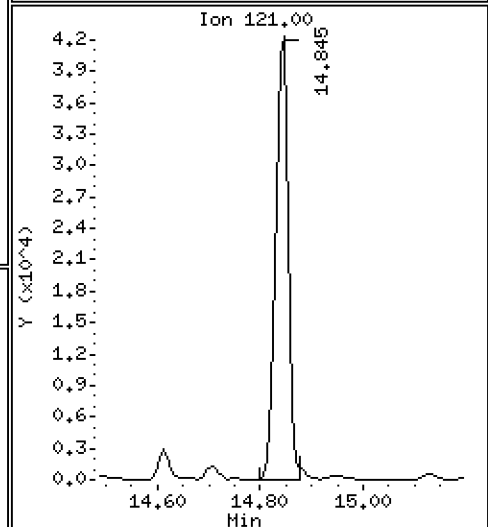
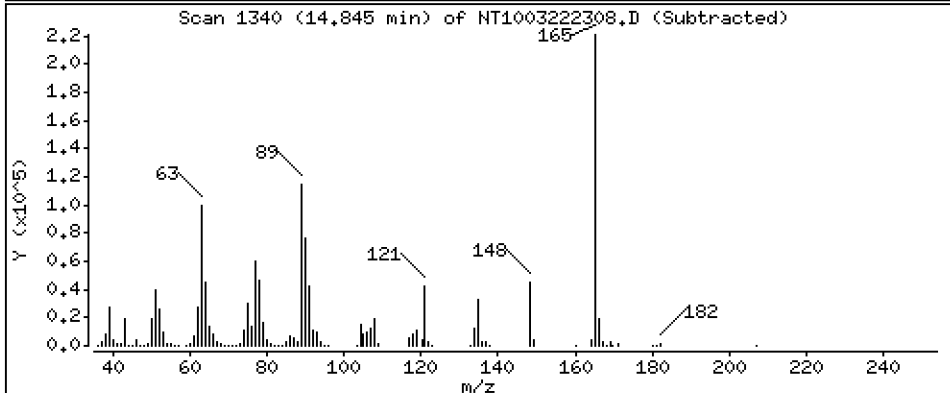
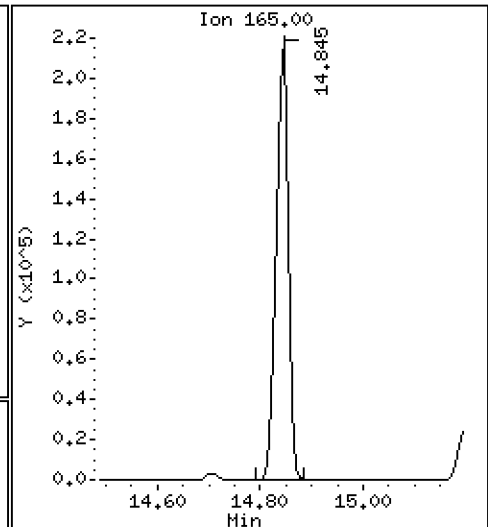
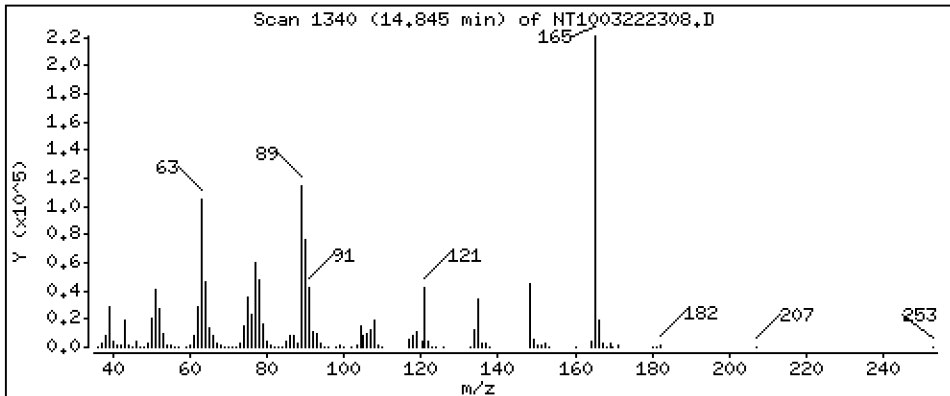
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 15,32 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

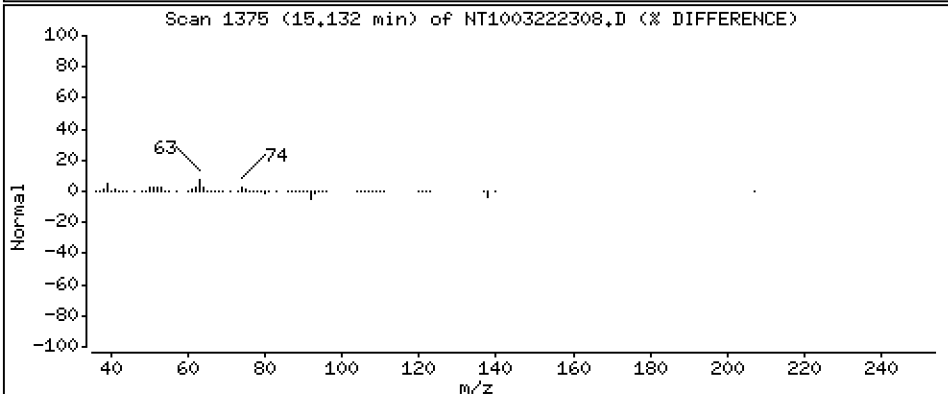
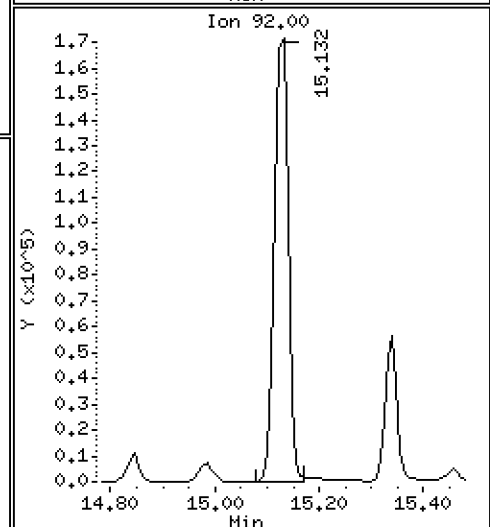
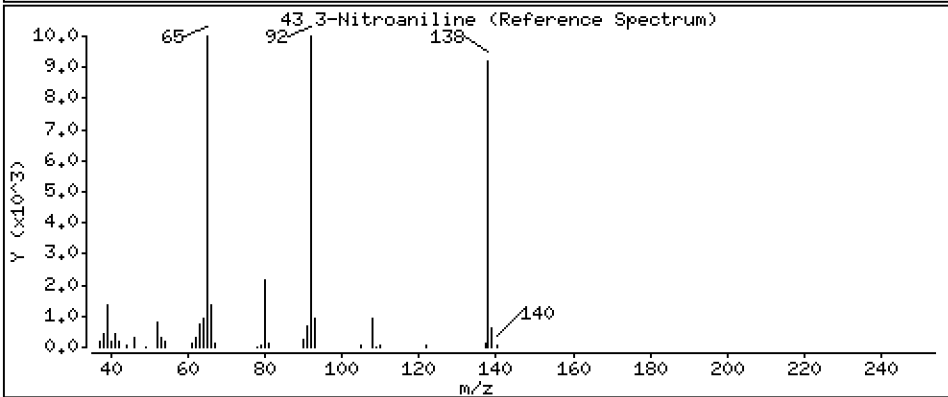
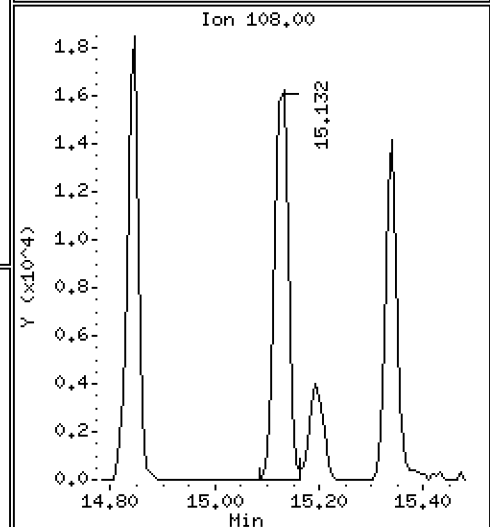
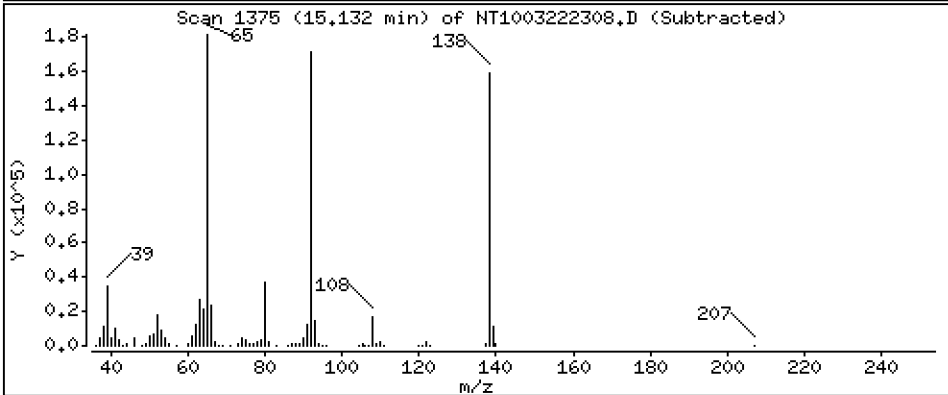
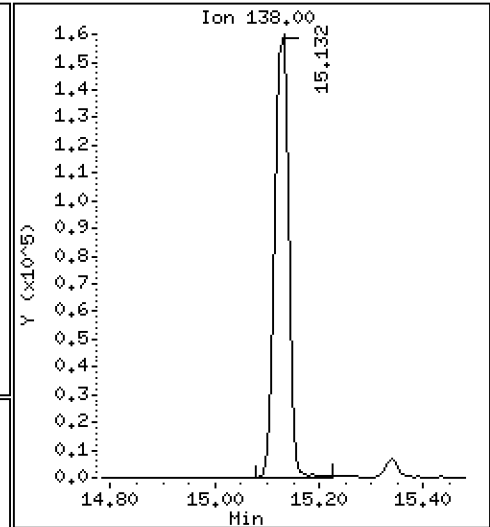
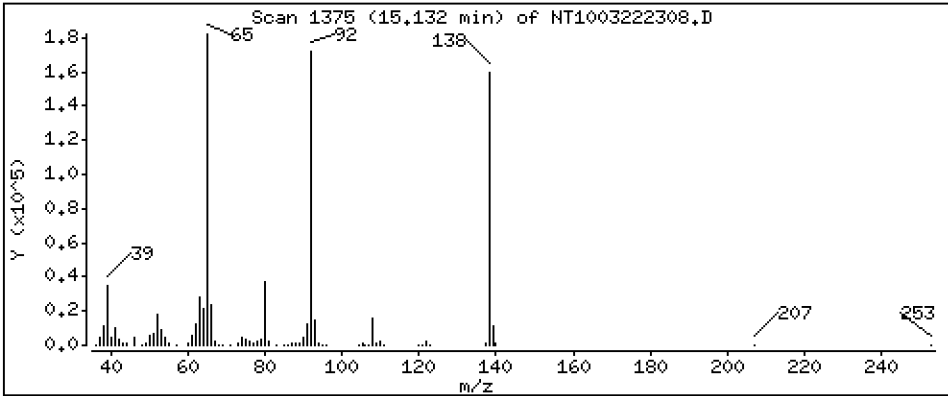
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 11,27 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

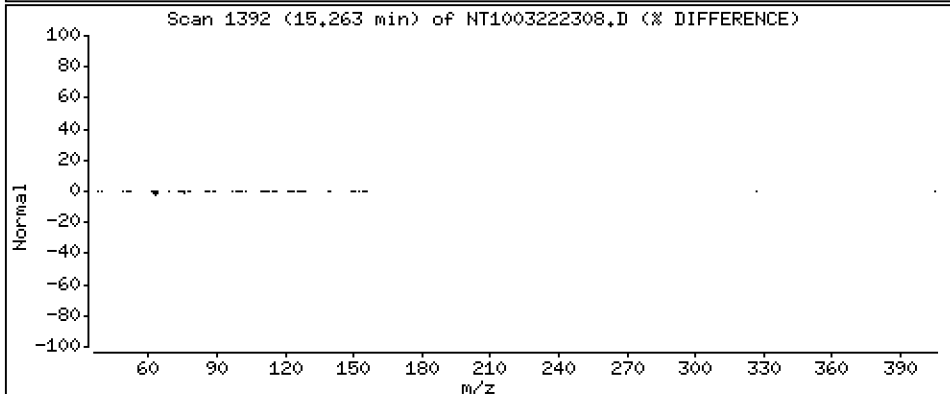
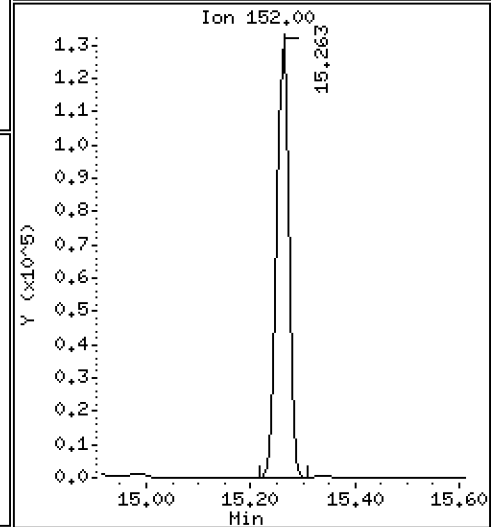
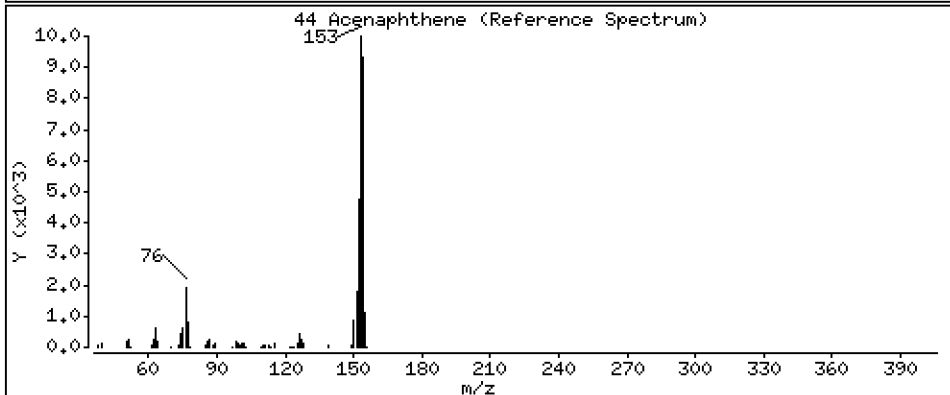
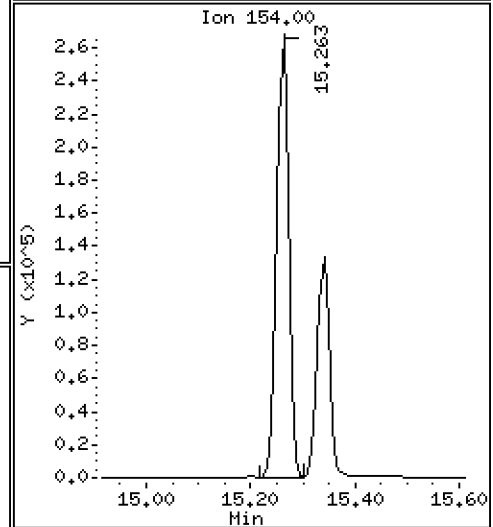
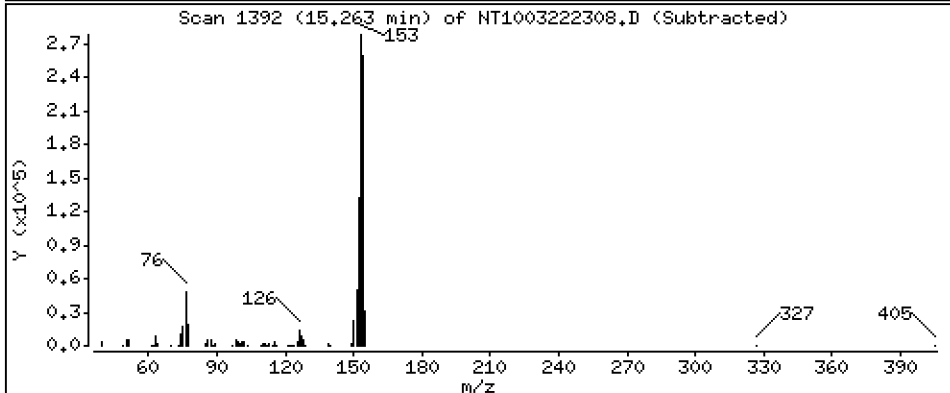
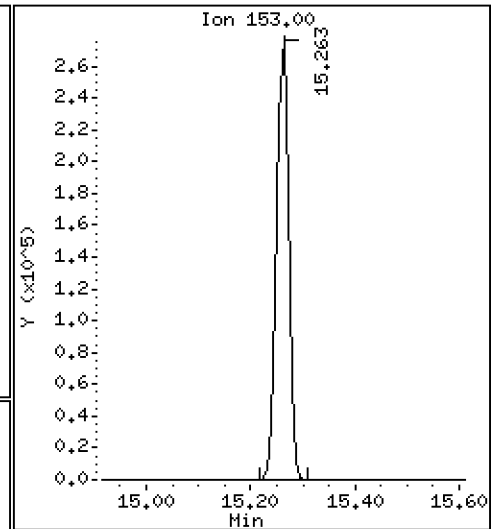
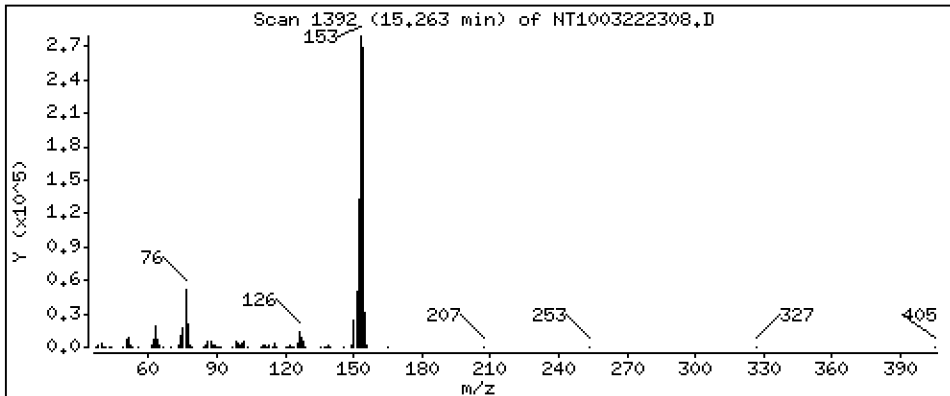
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,390 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

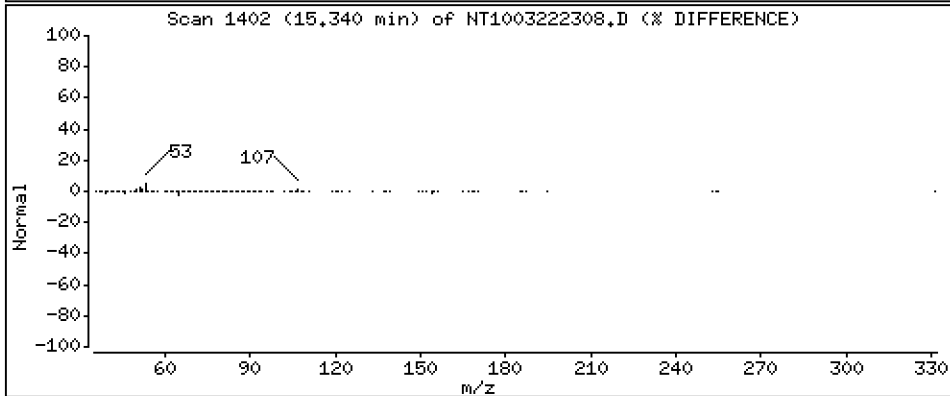
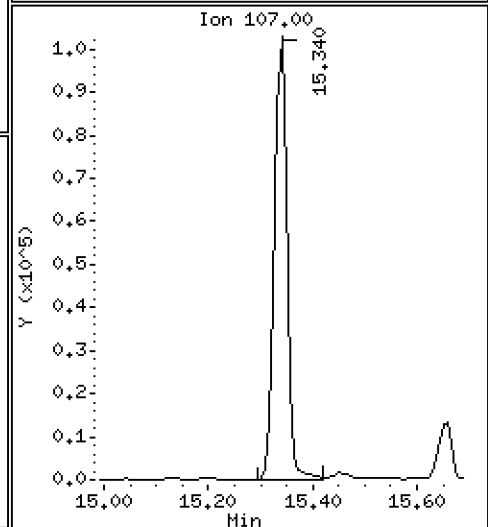
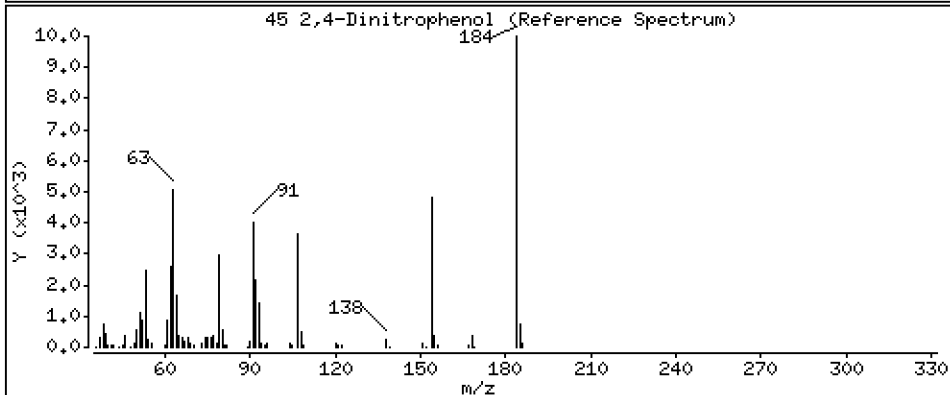
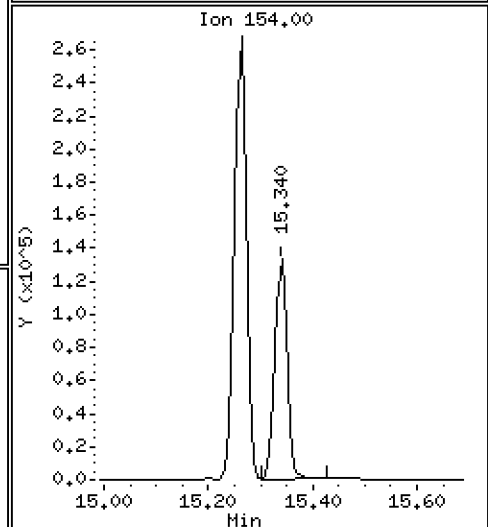
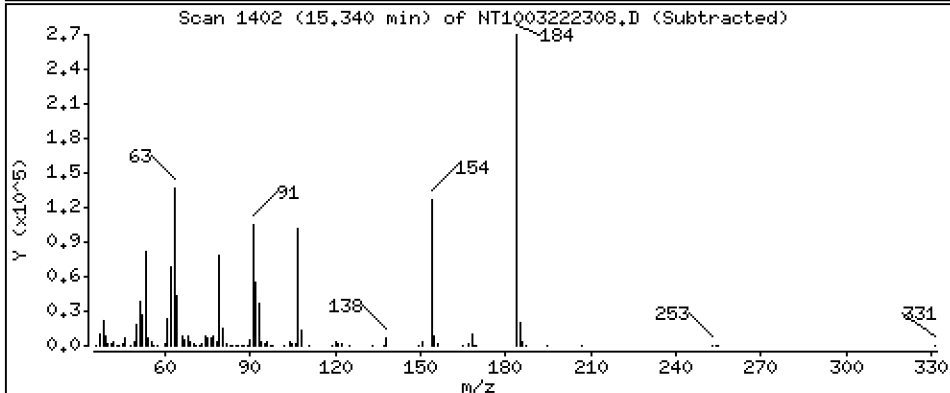
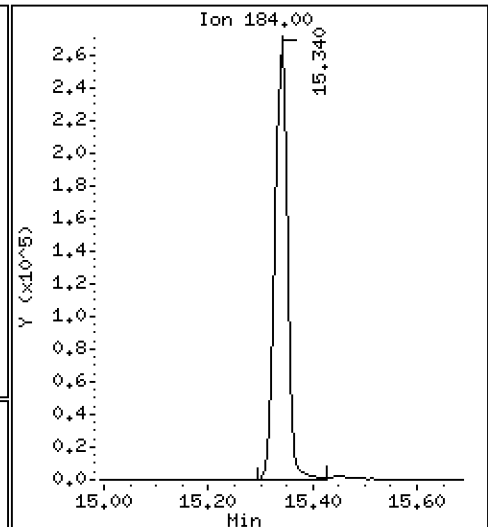
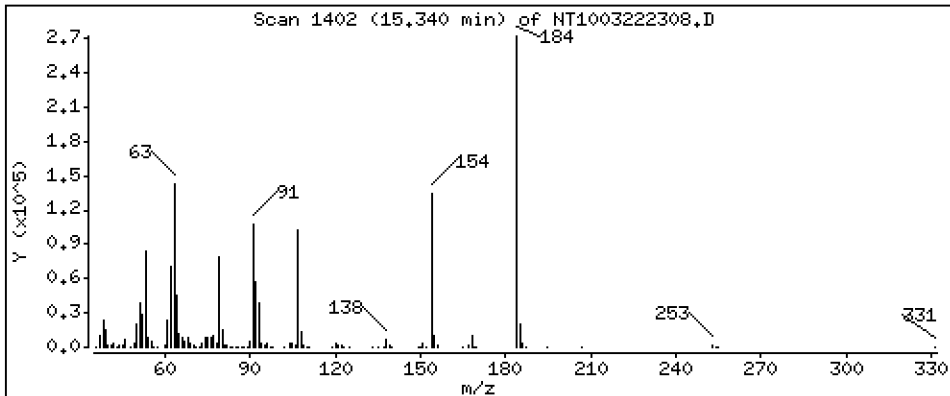
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 29,94 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

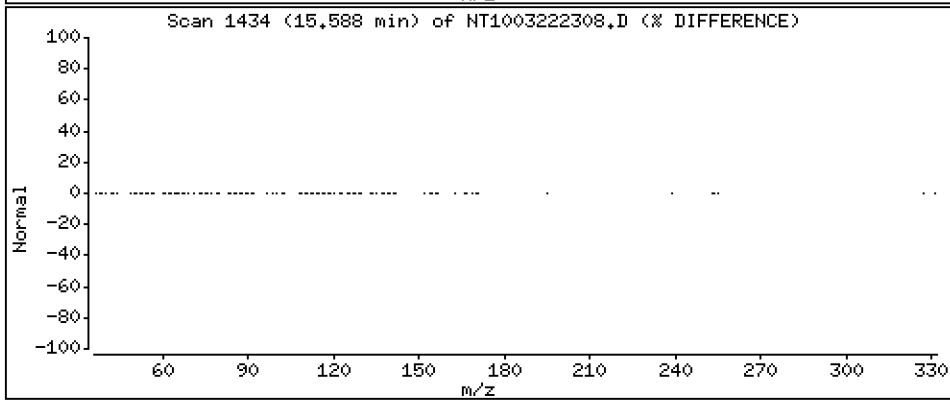
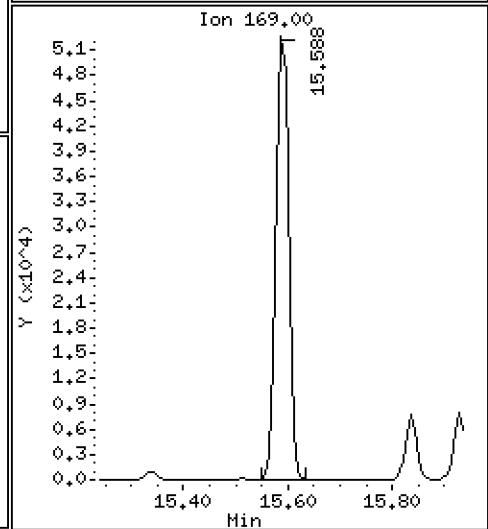
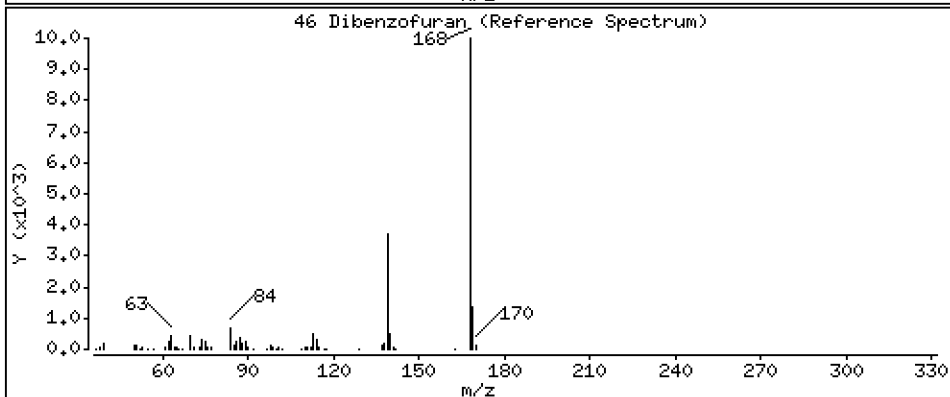
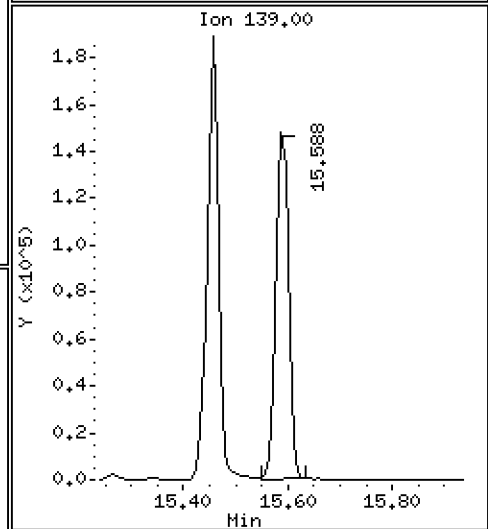
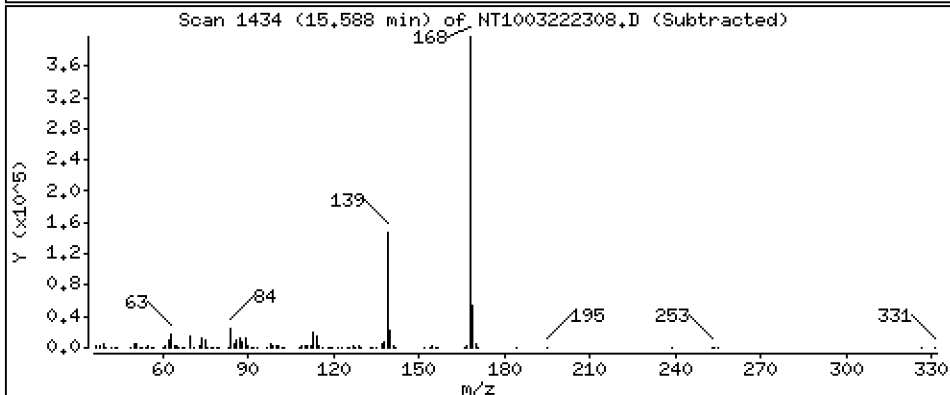
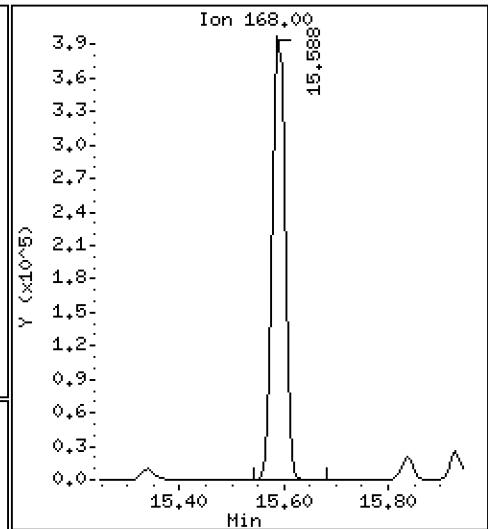
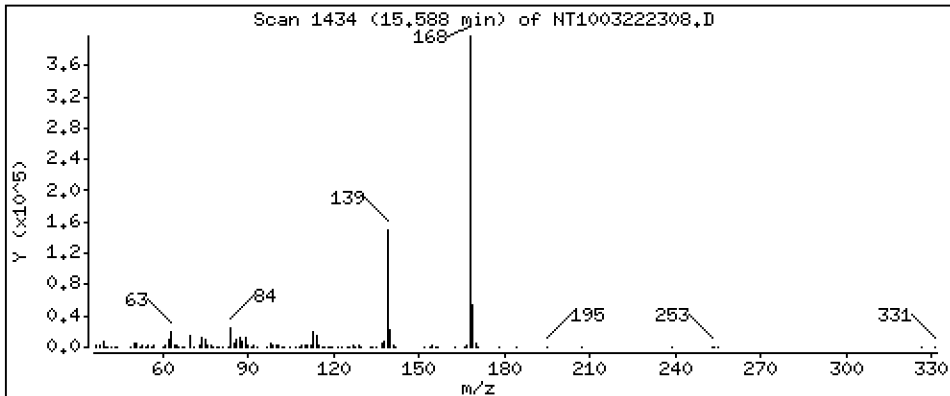
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,486 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

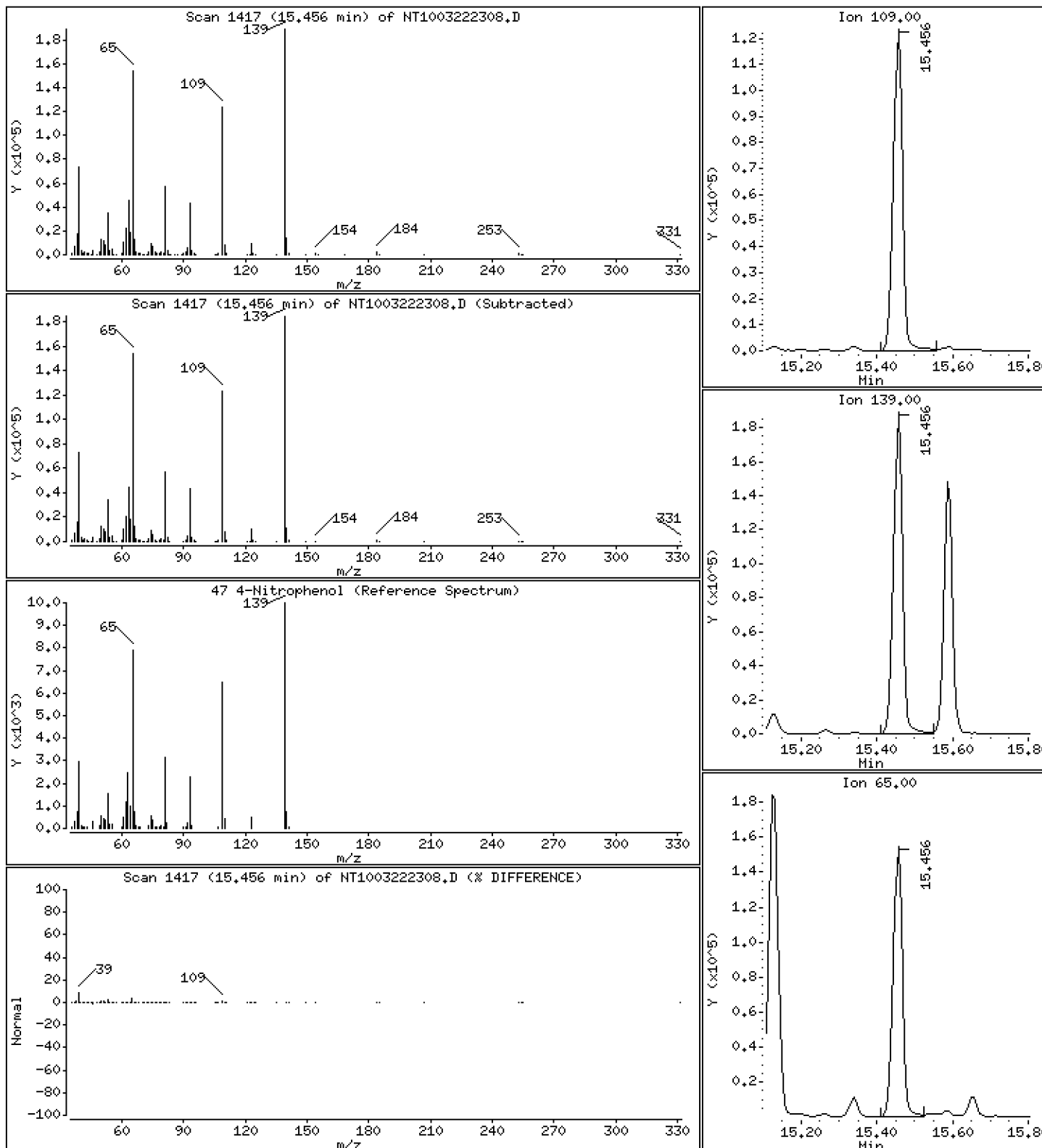
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 12,66 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

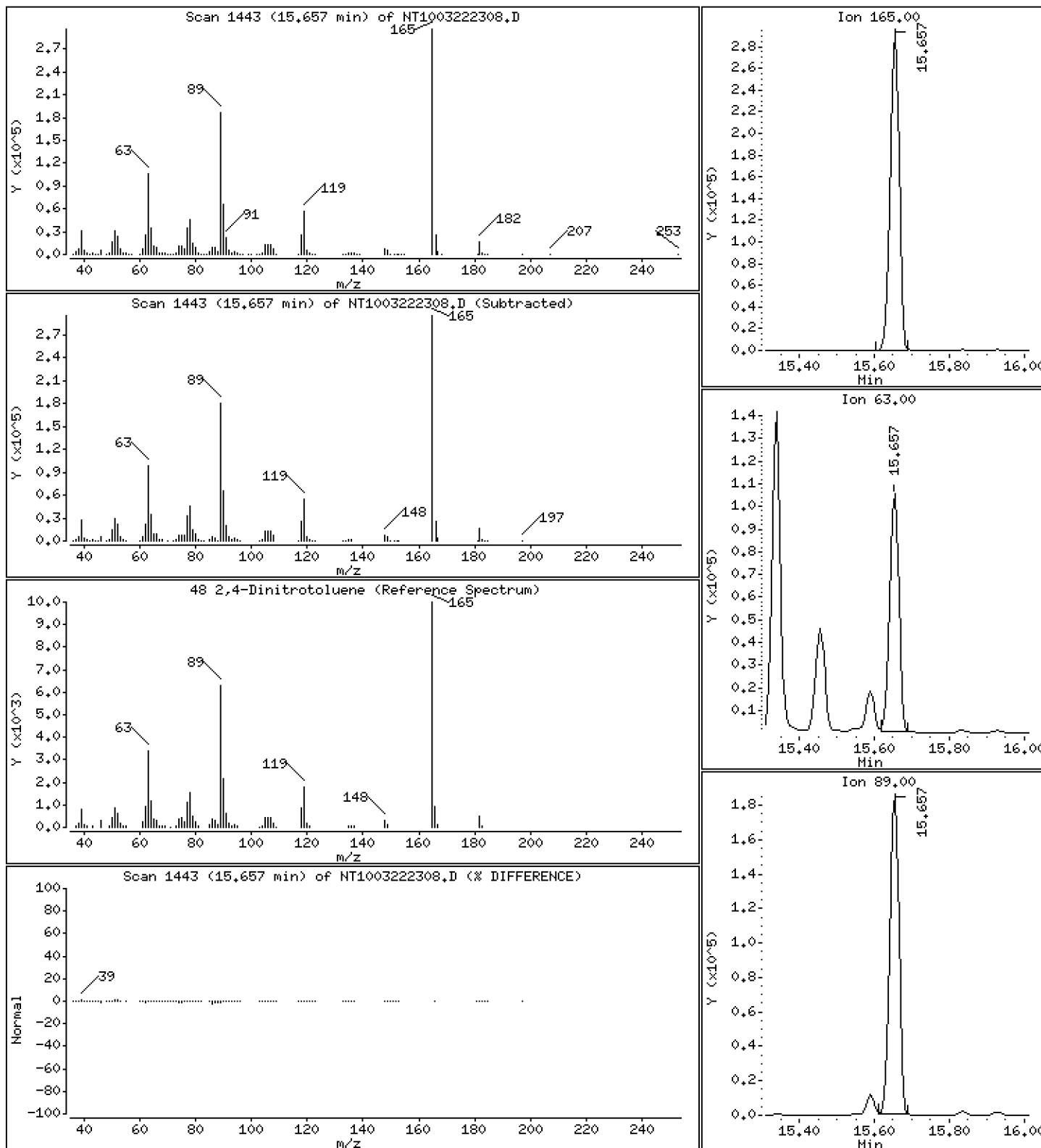
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 14,06 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

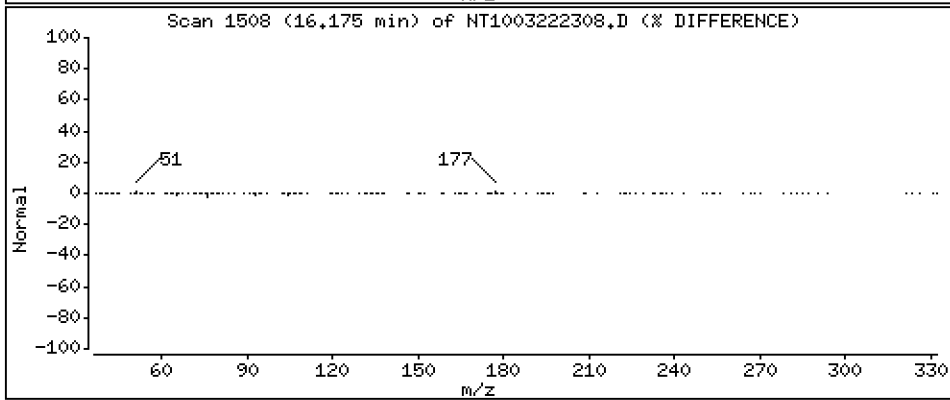
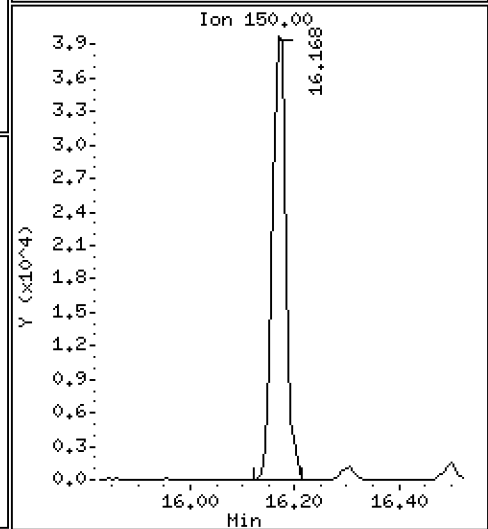
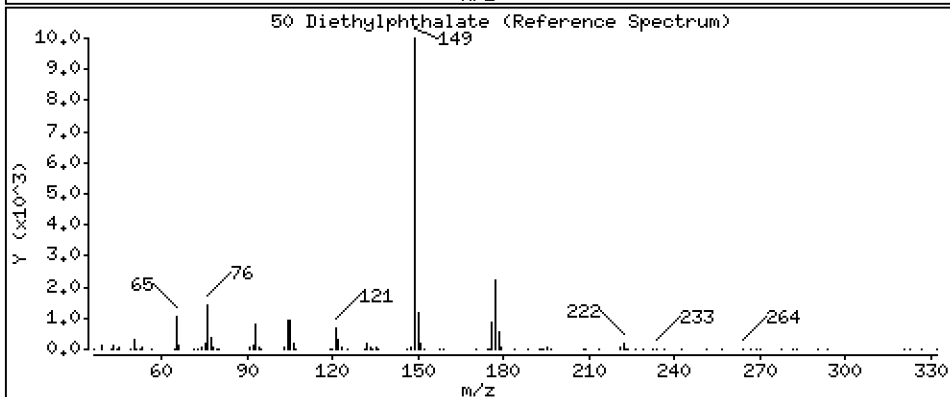
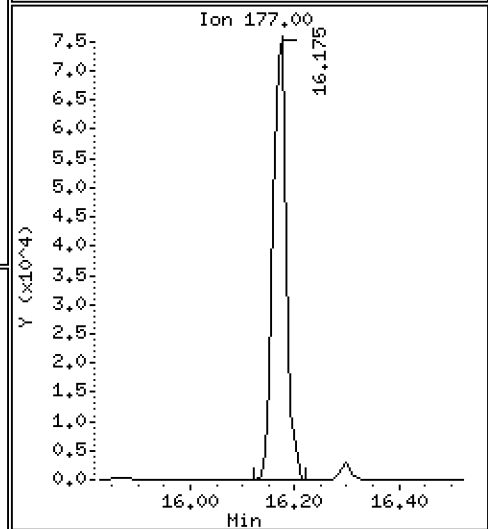
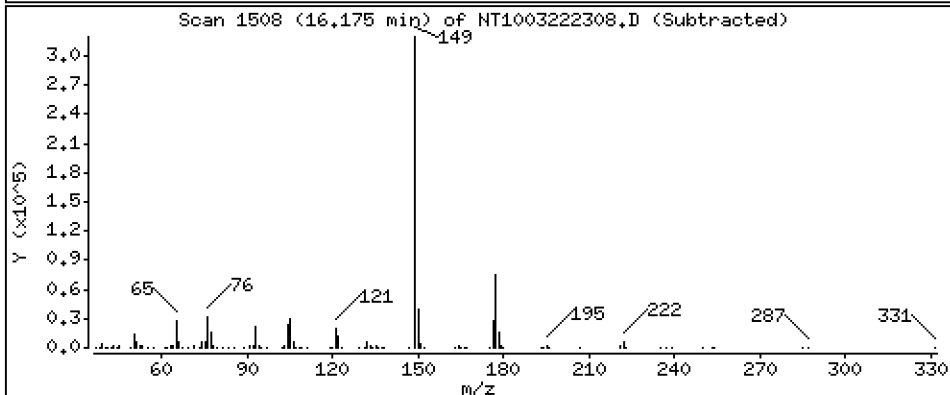
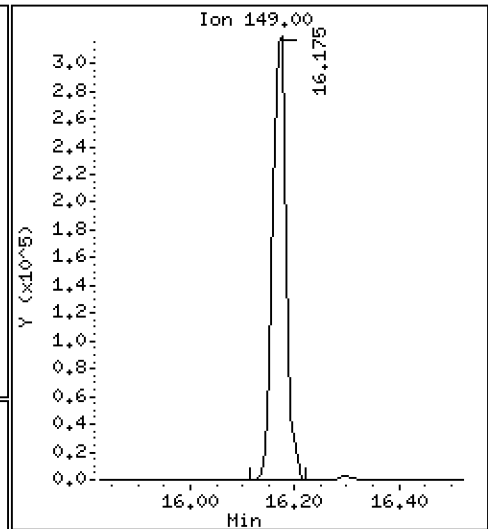
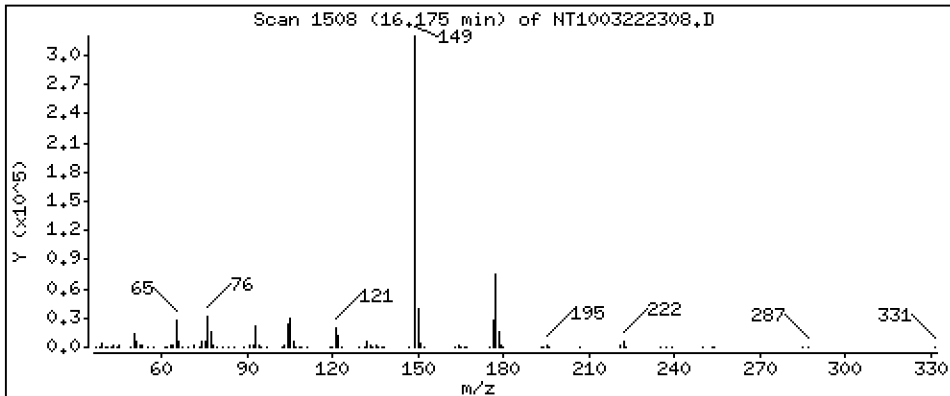
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 6,241 ug/mL





Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

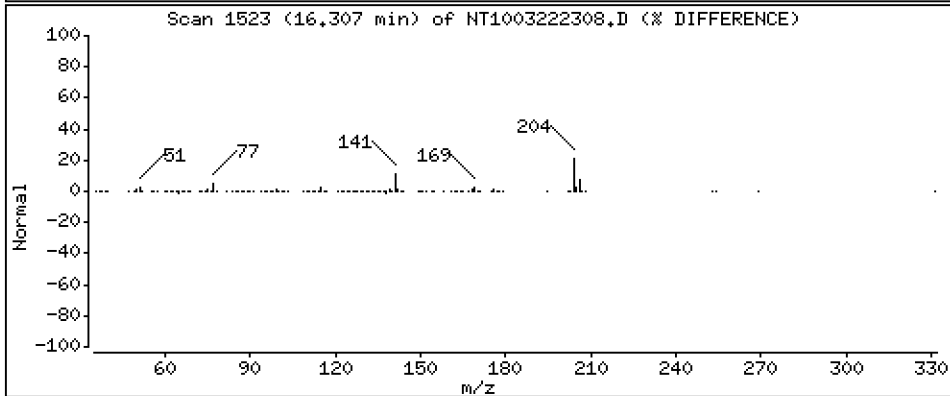
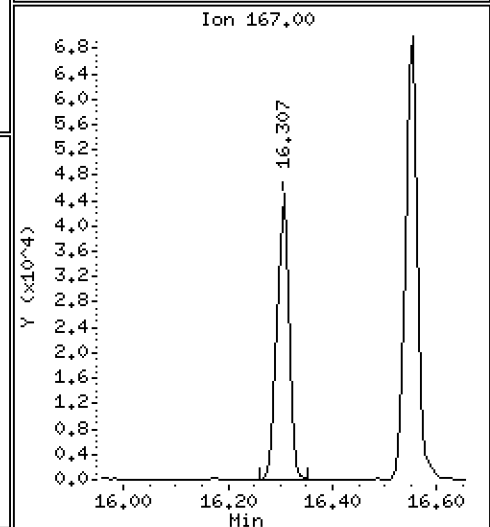
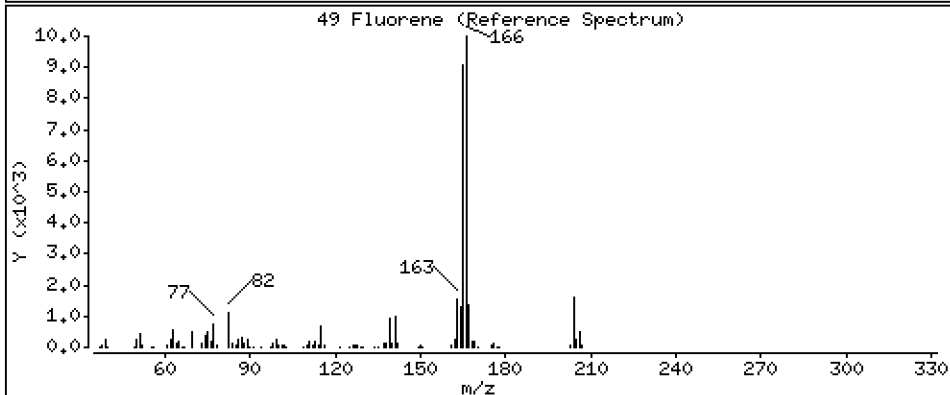
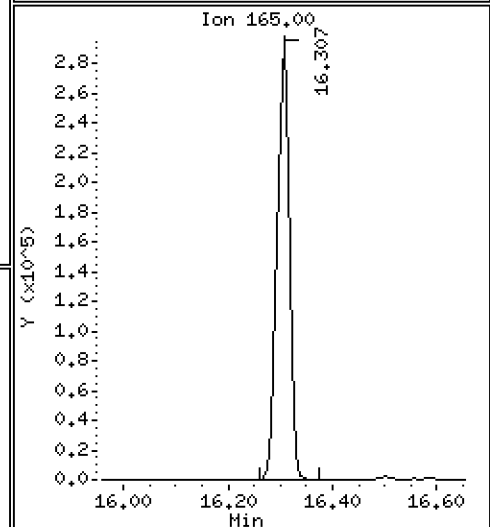
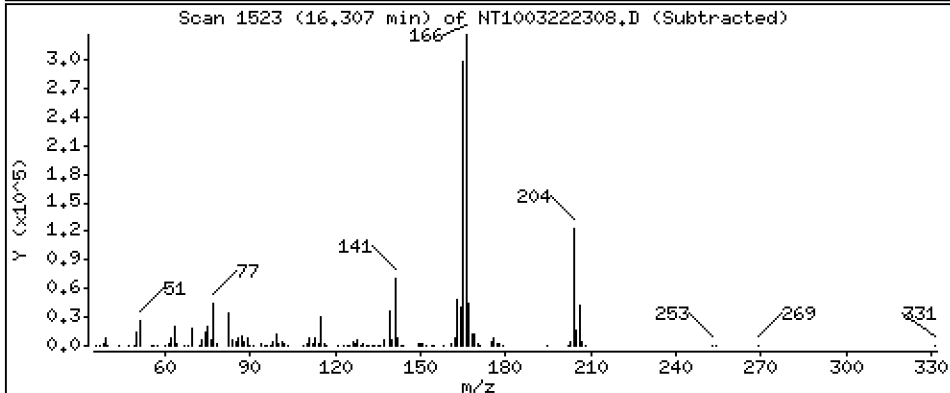
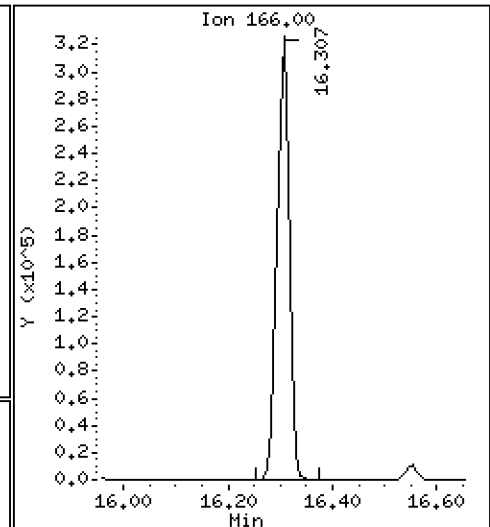
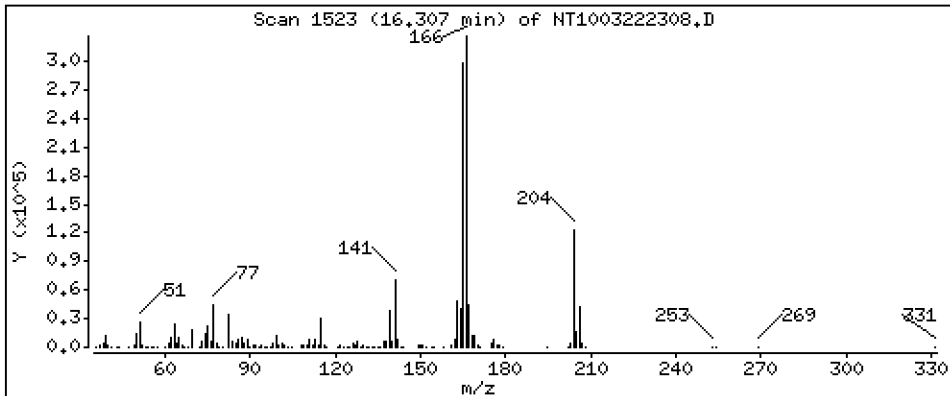
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,577 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

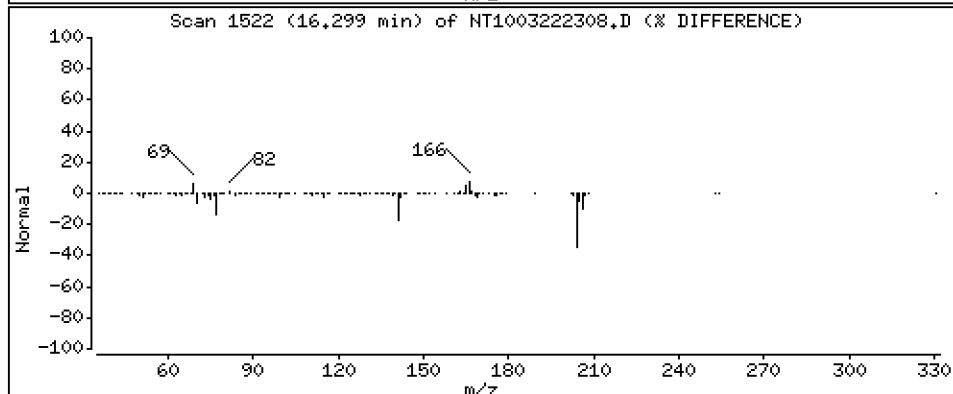
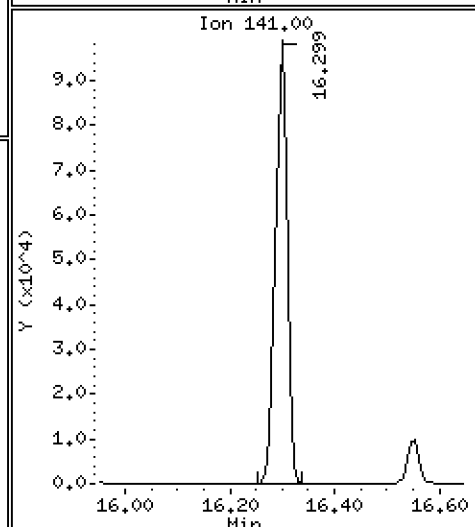
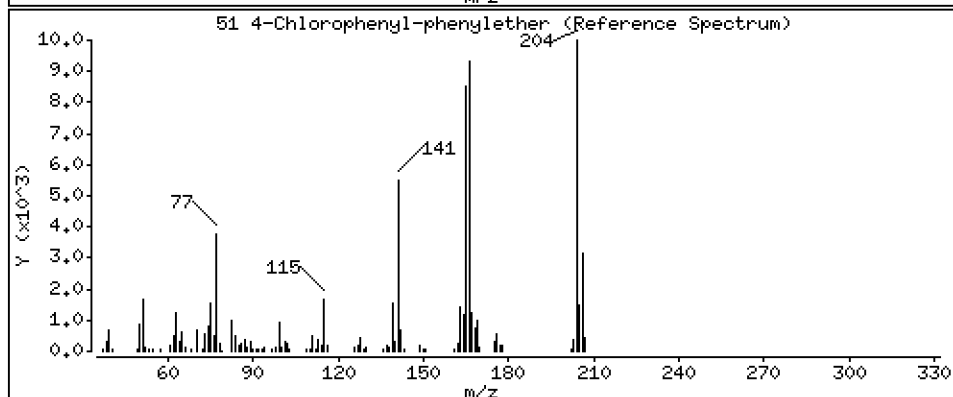
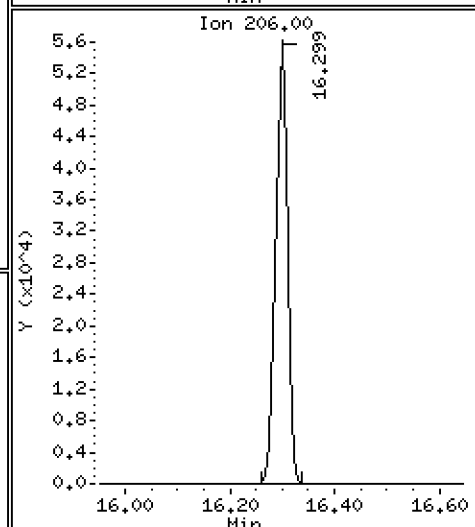
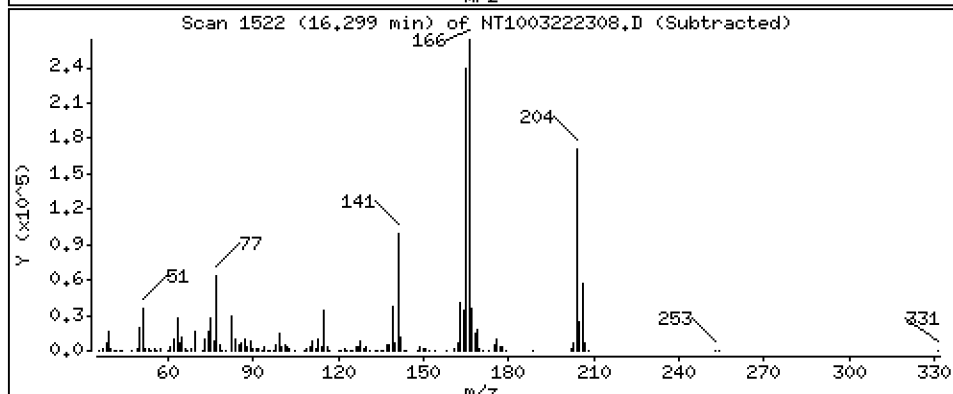
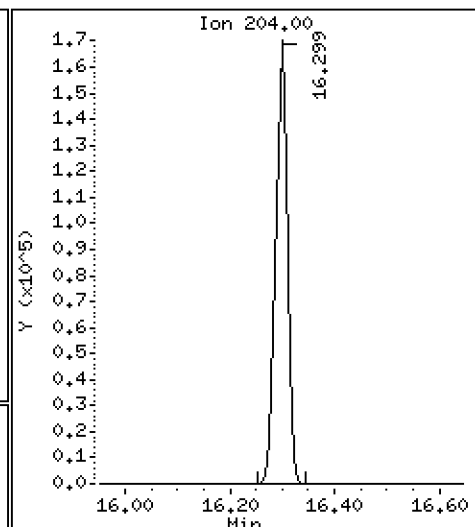
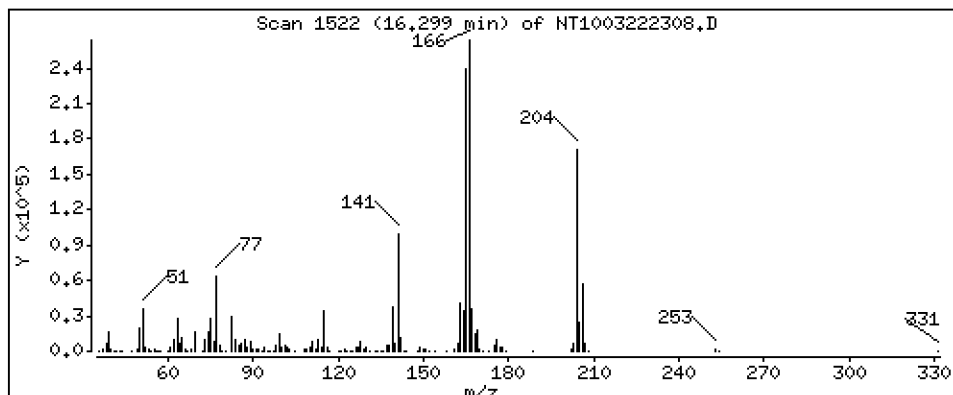
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,836 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

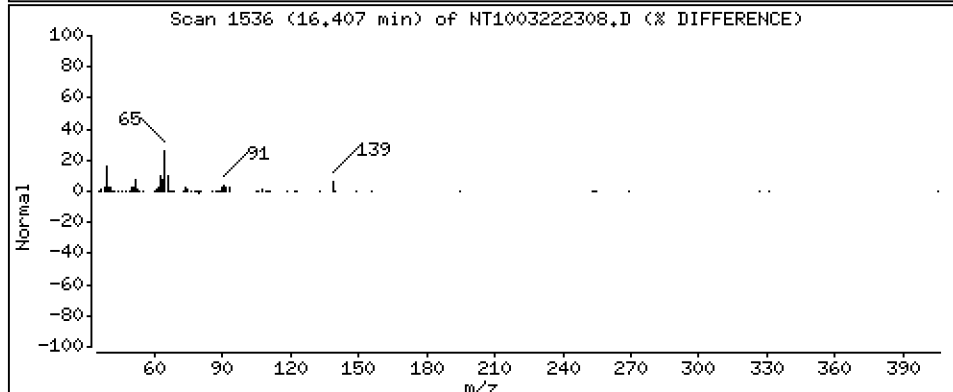
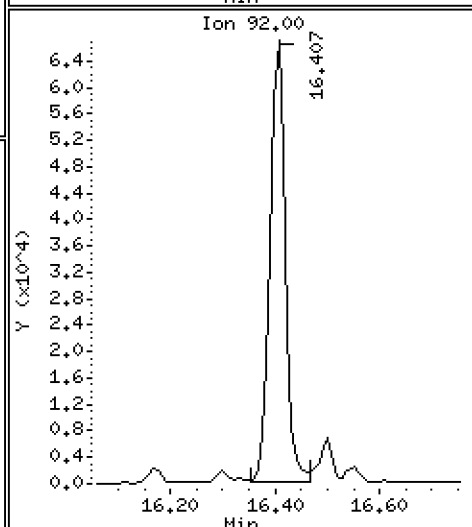
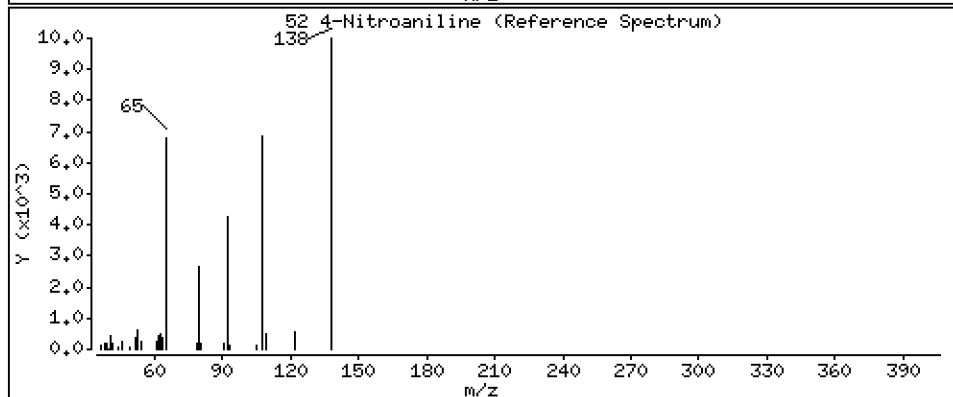
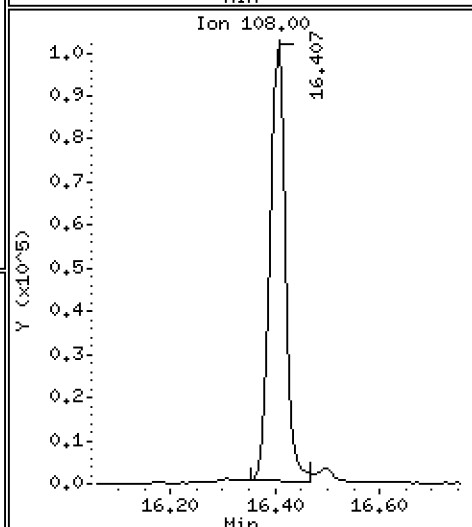
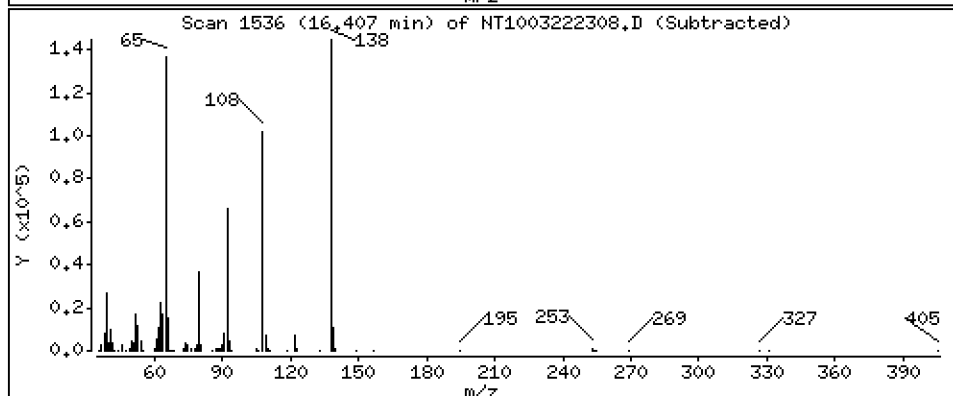
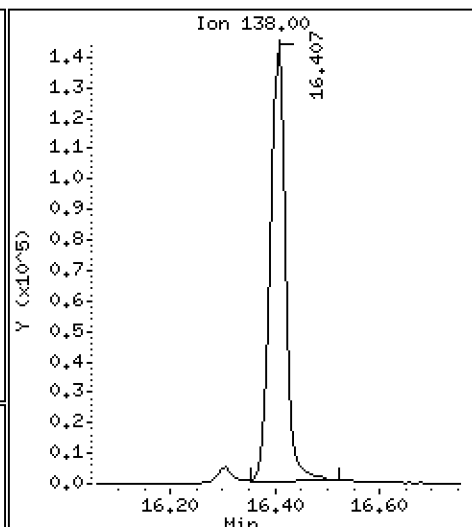
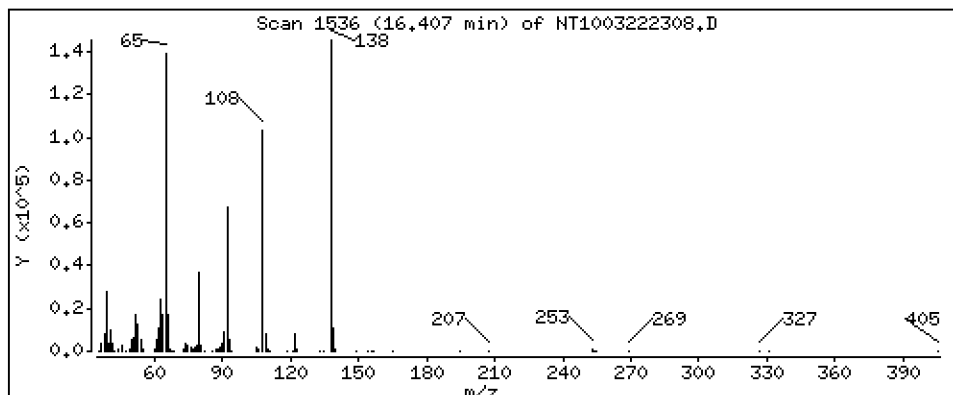
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 12,50 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

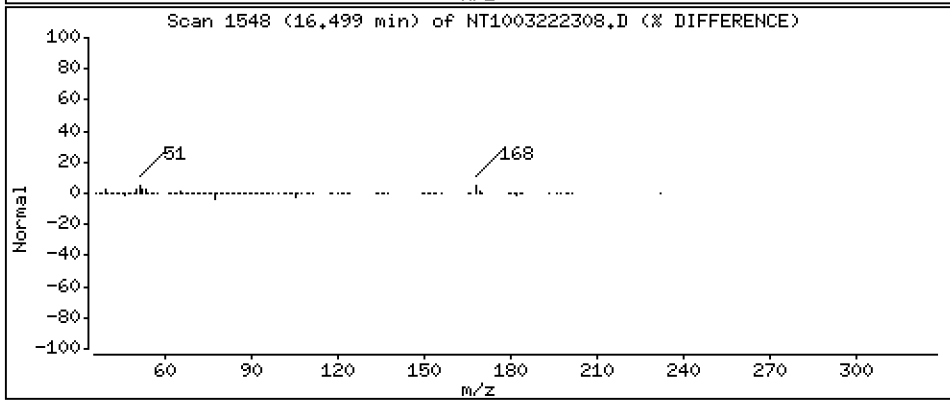
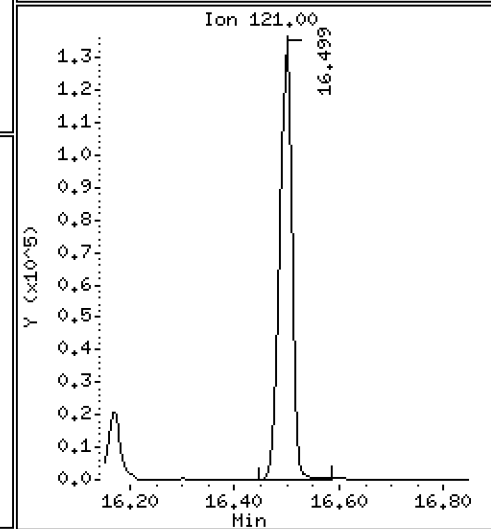
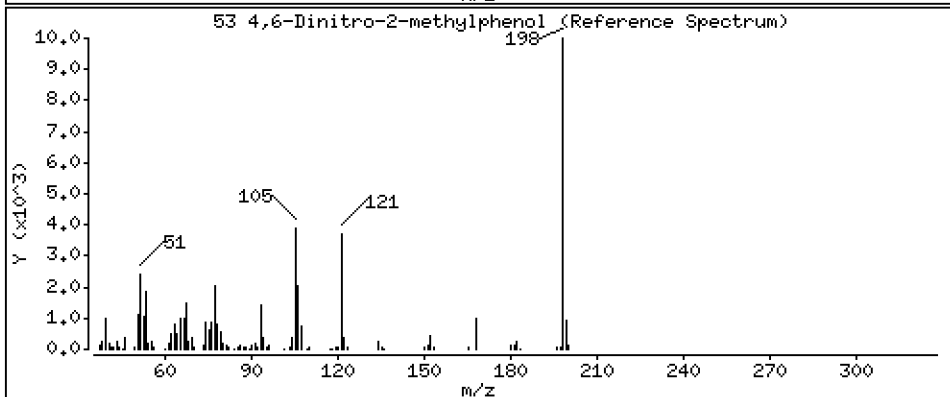
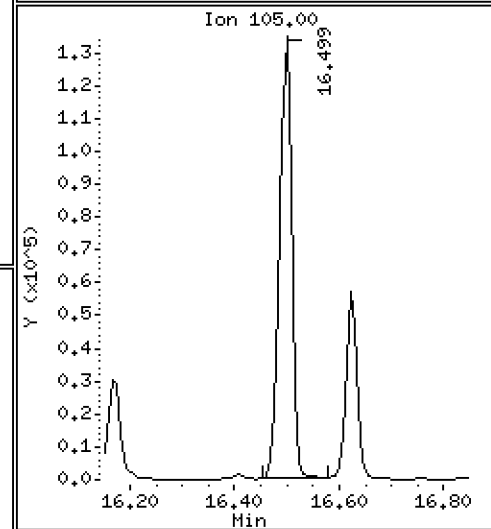
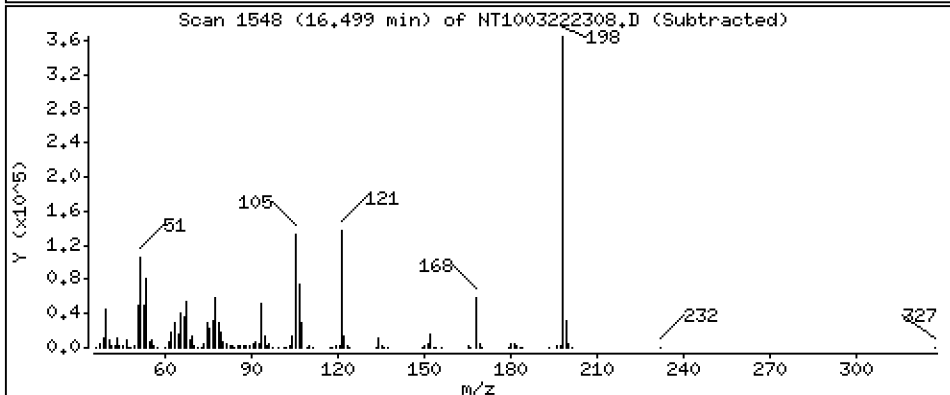
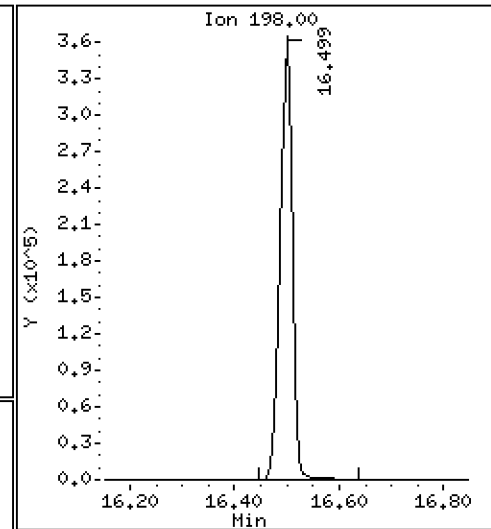
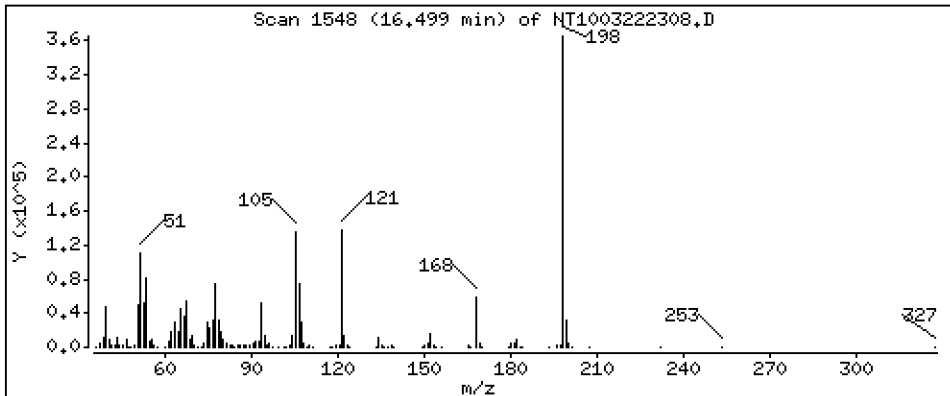
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 30,52 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

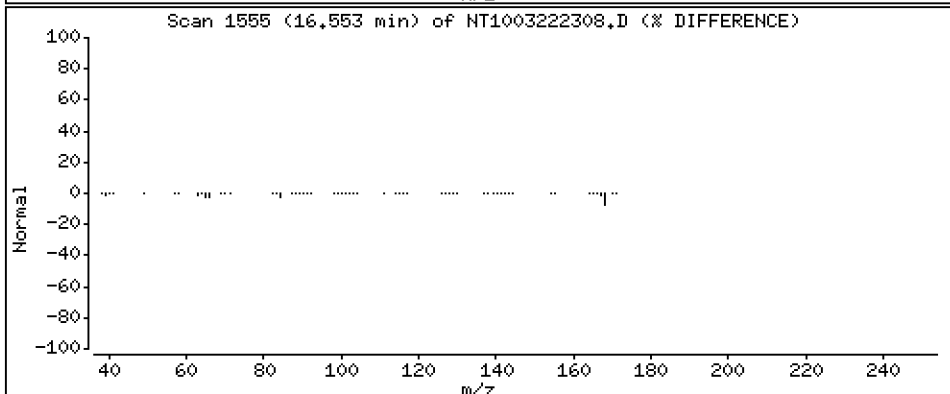
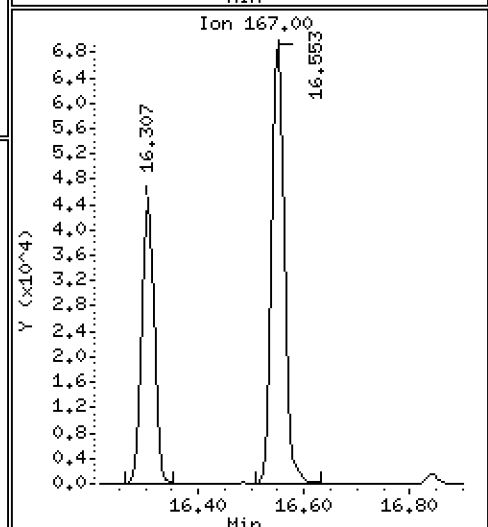
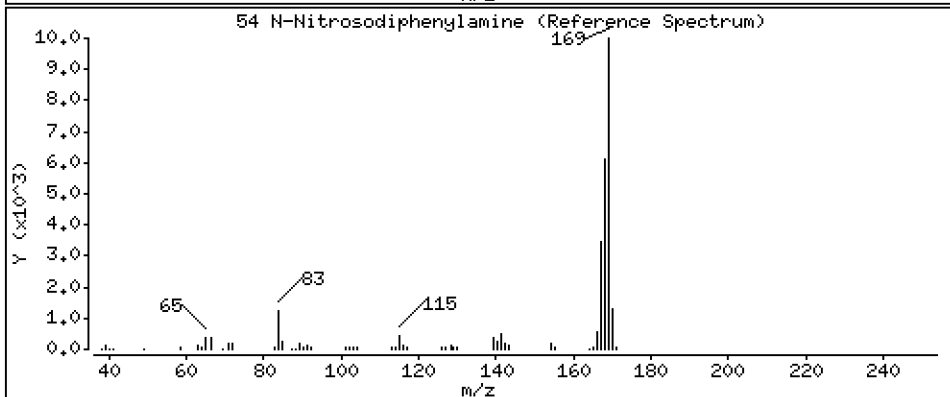
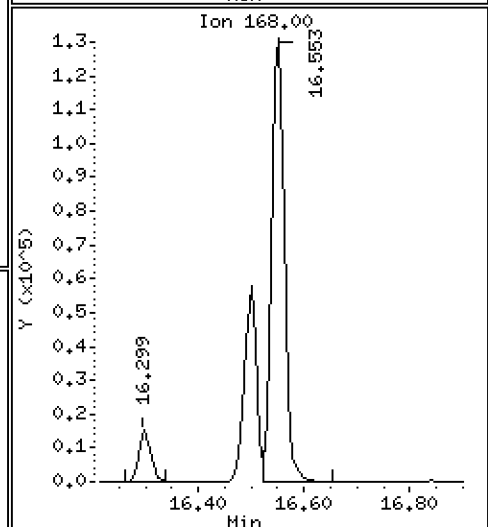
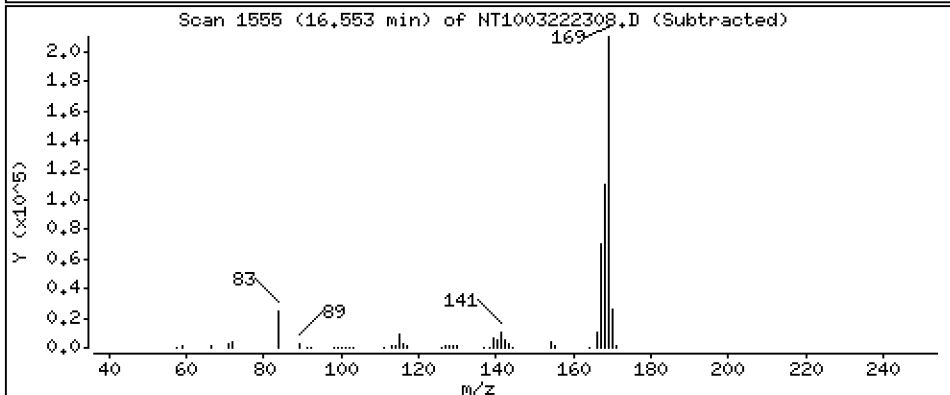
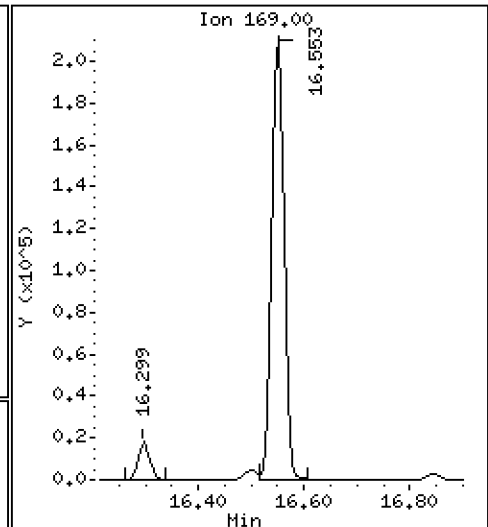
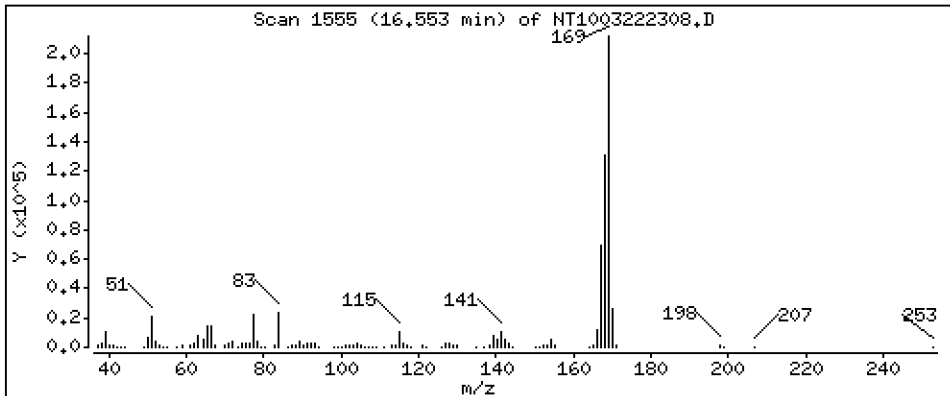
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,240 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

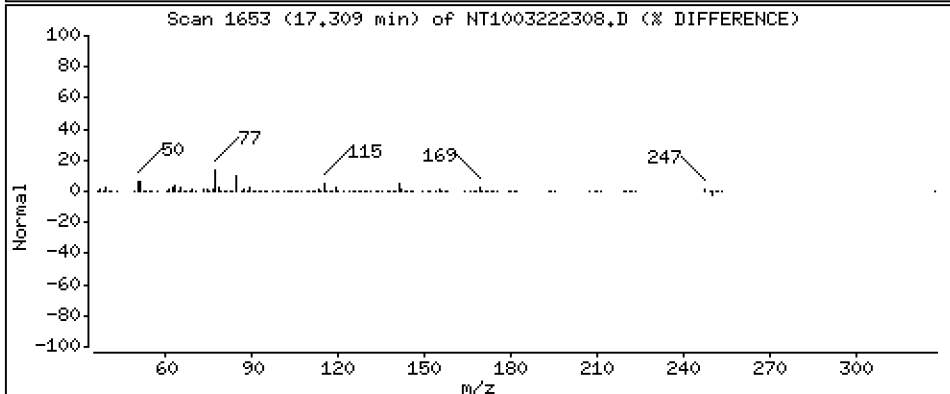
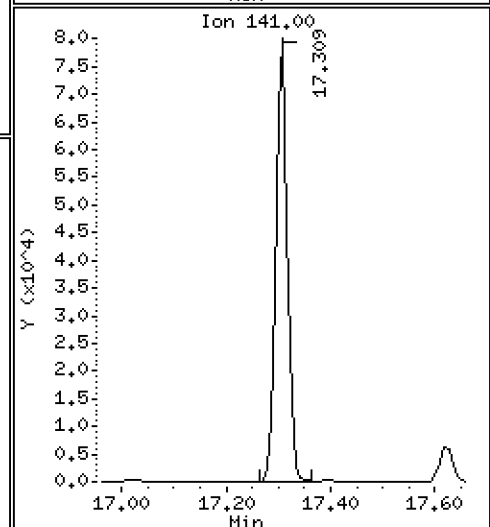
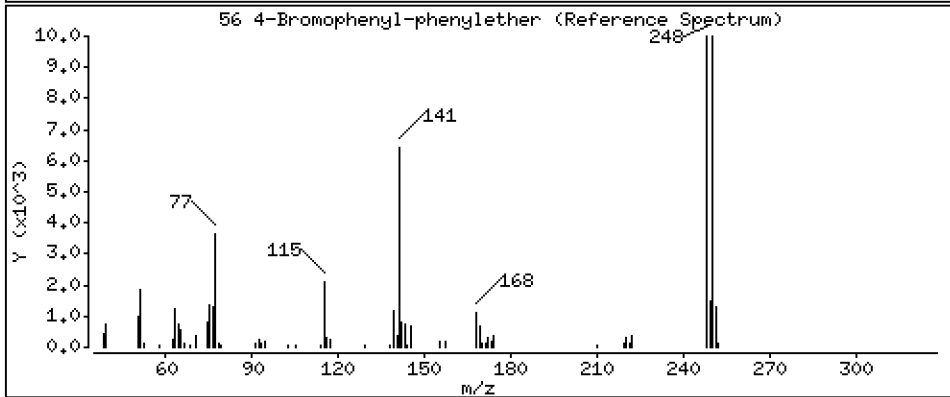
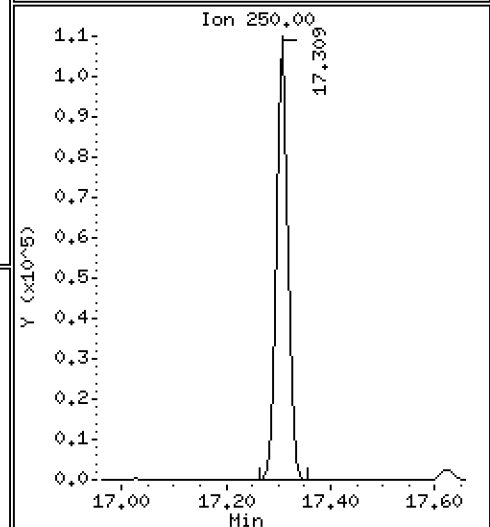
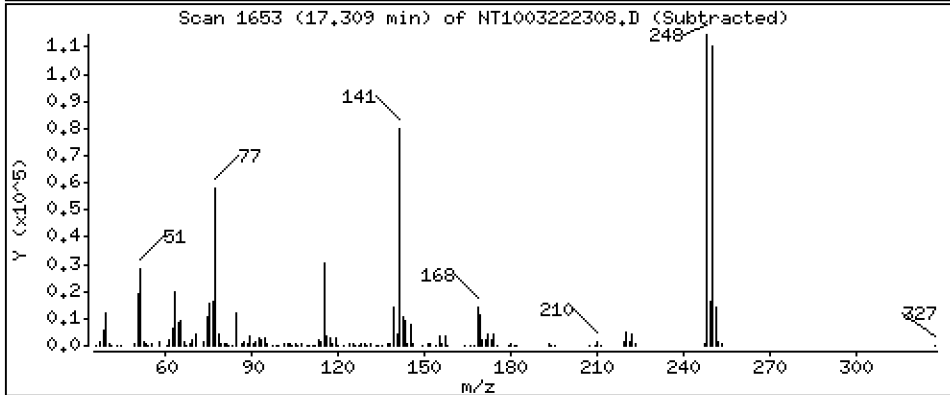
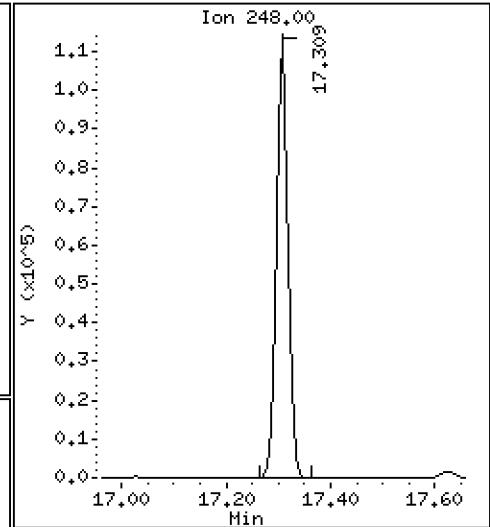
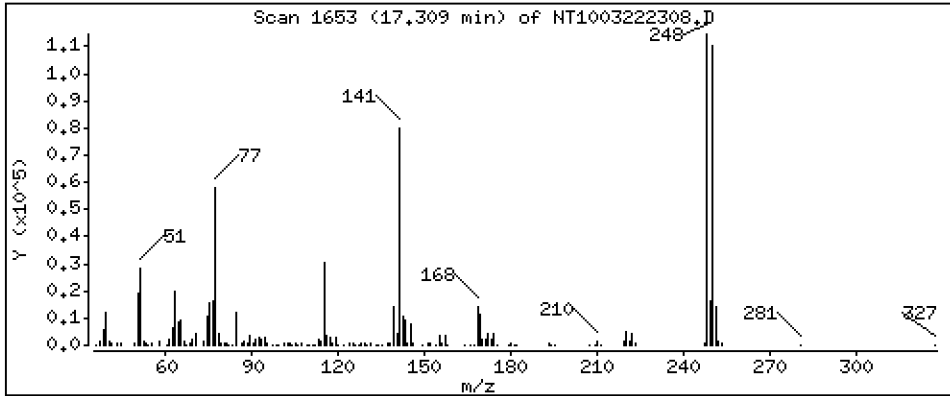
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,244 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

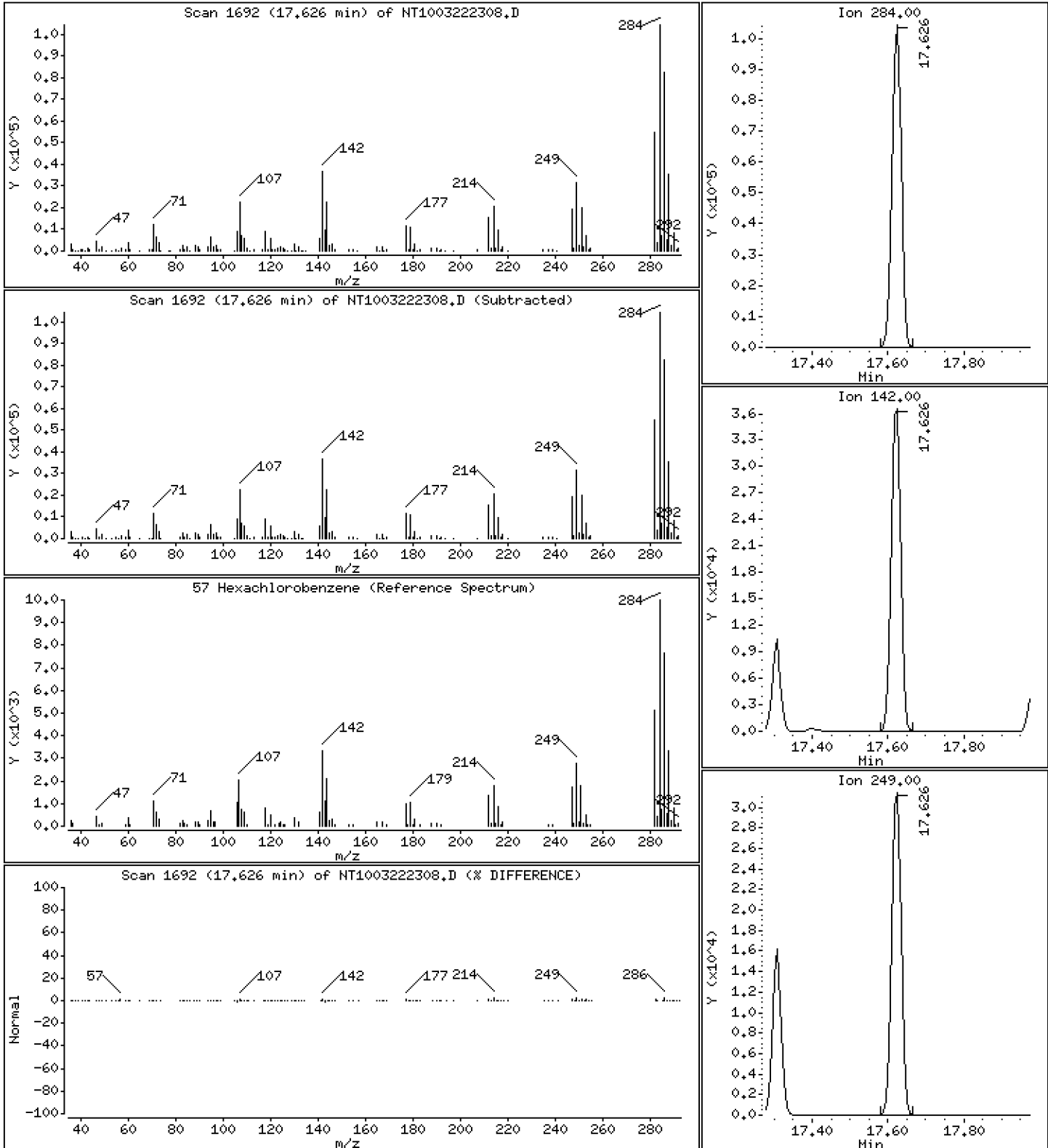
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,961 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

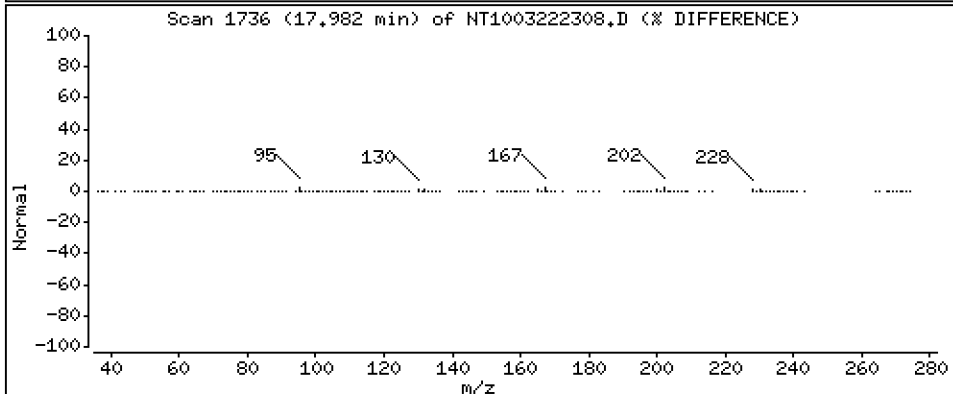
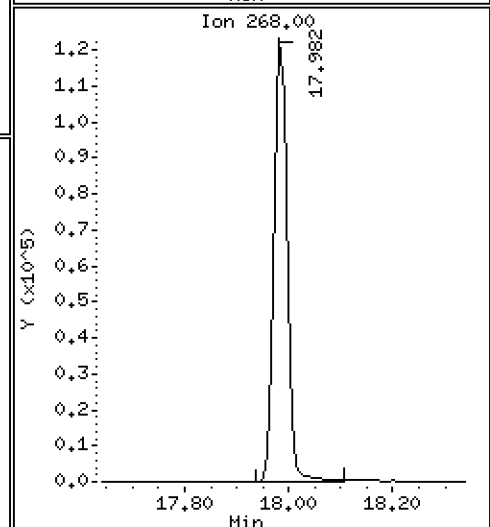
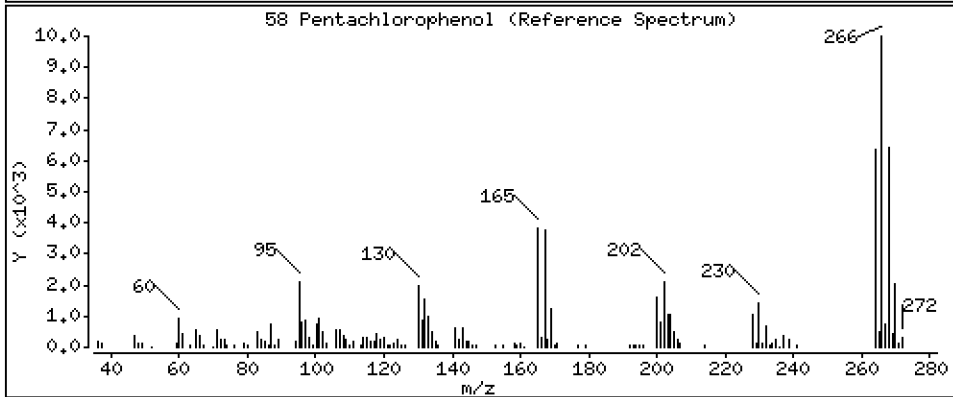
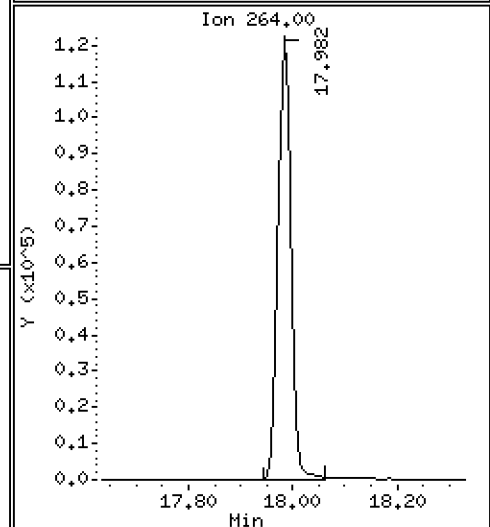
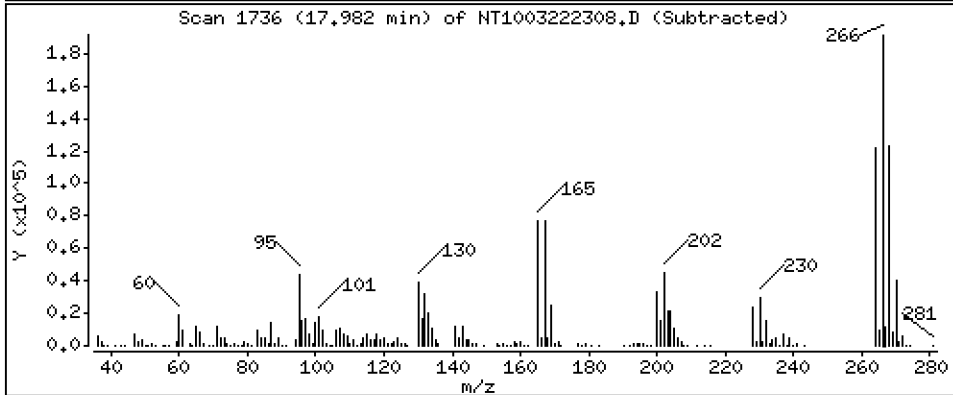
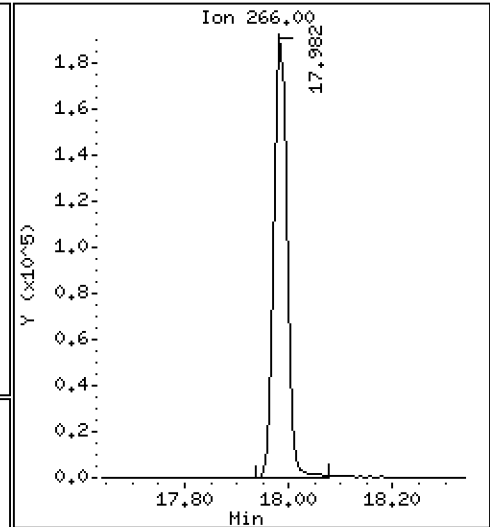
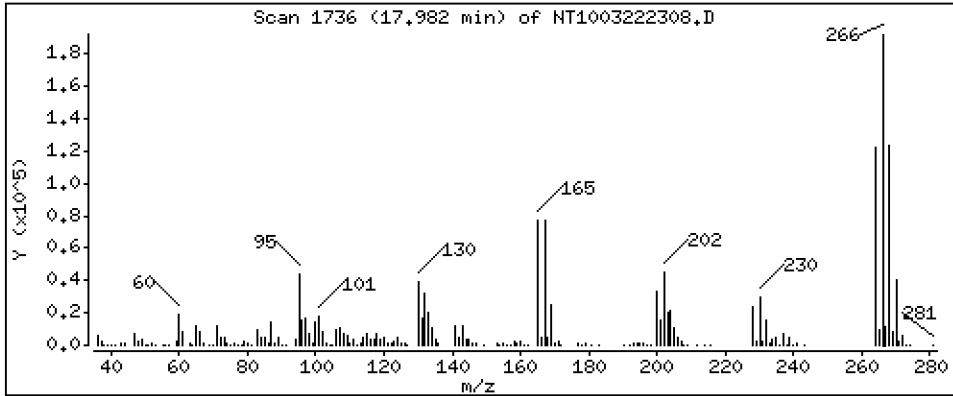
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 15,44 ug/mL





Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

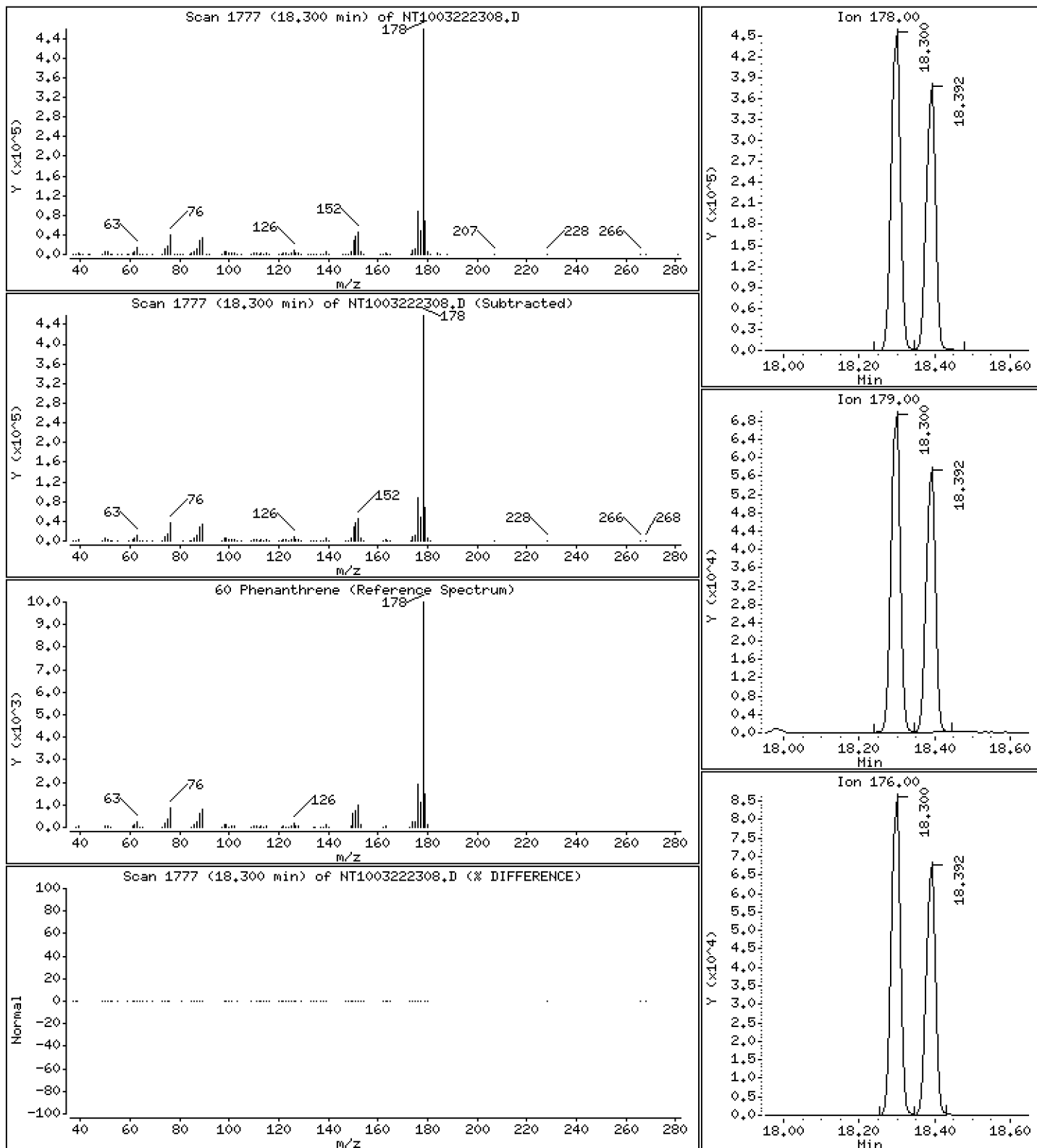
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,536 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

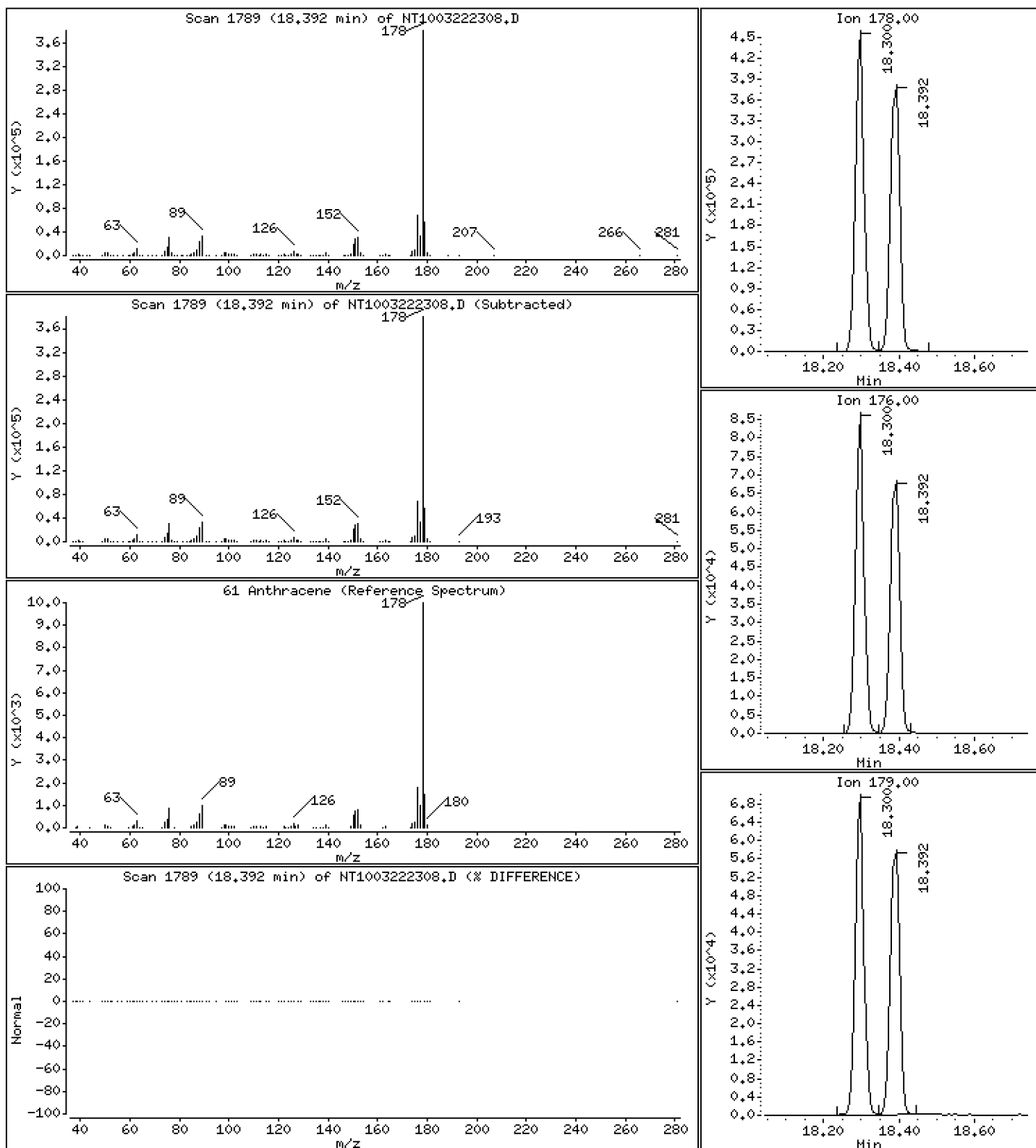
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,105 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

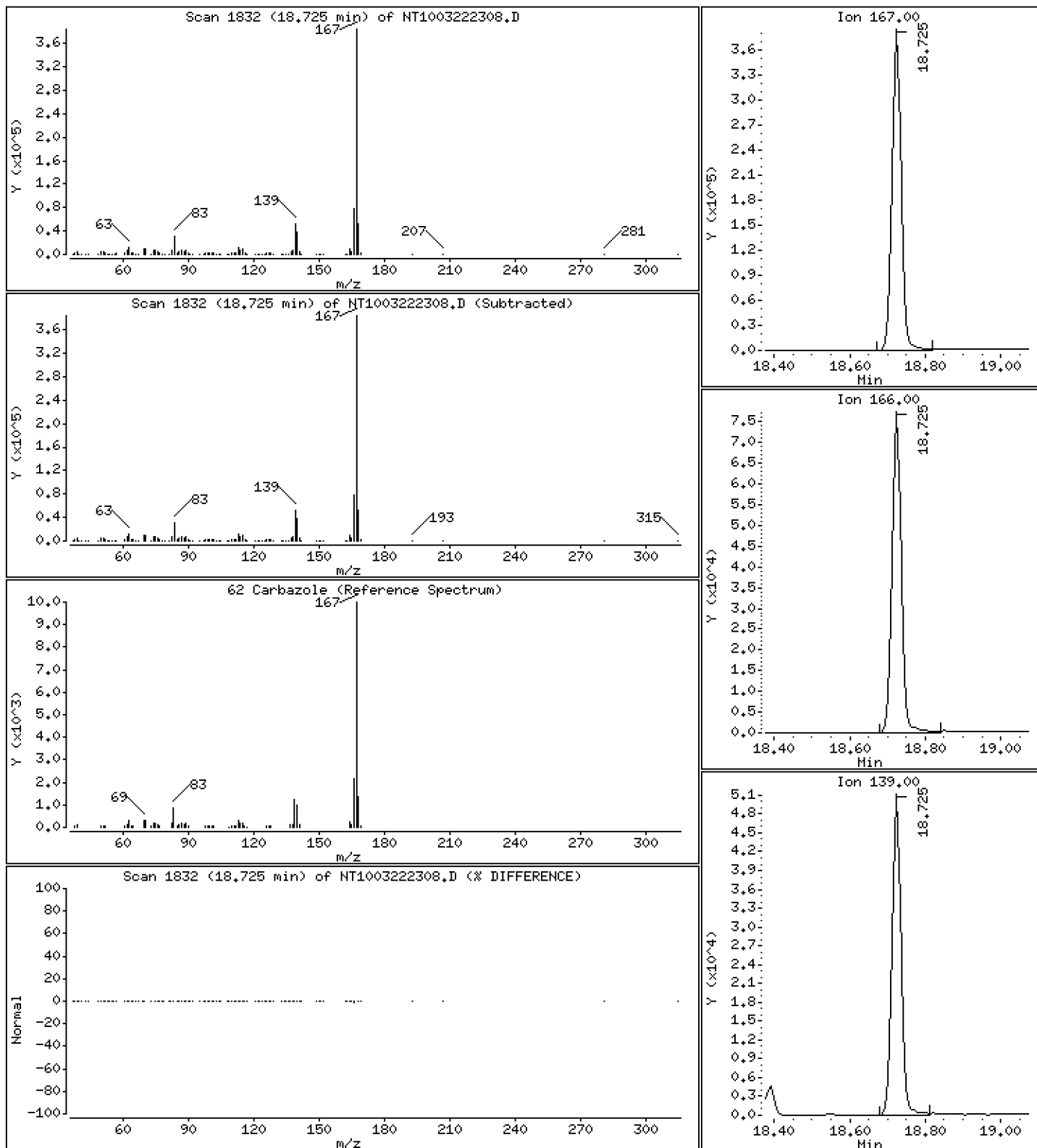
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,466 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

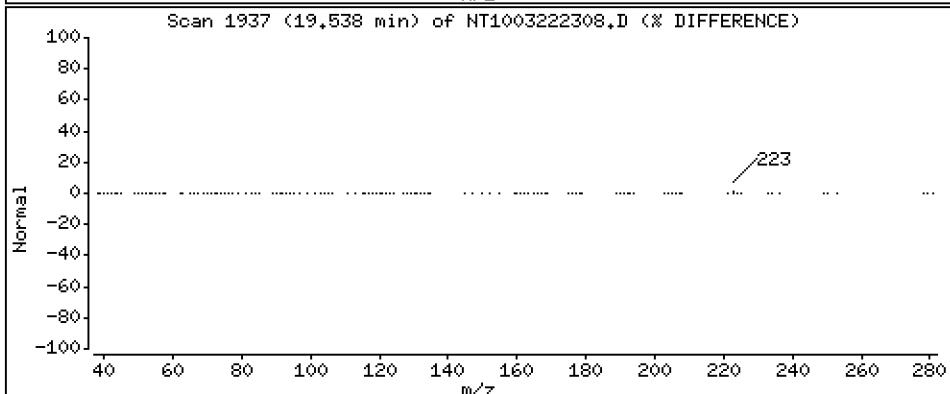
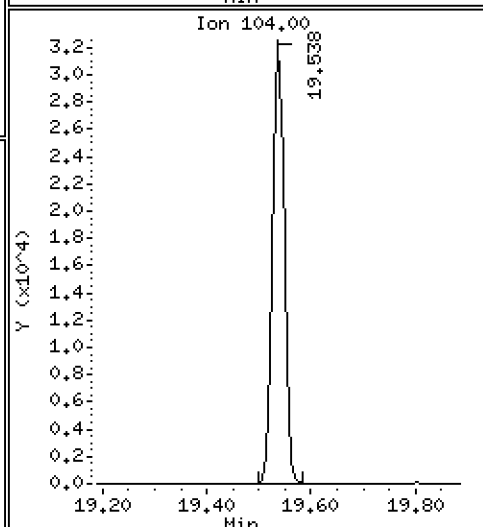
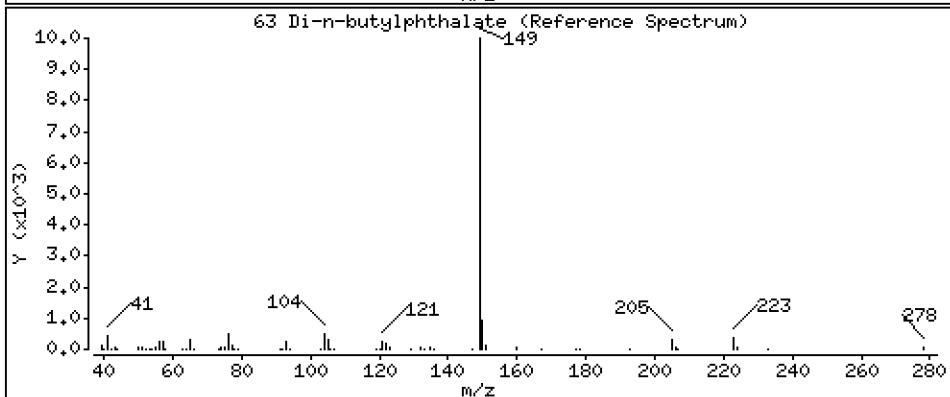
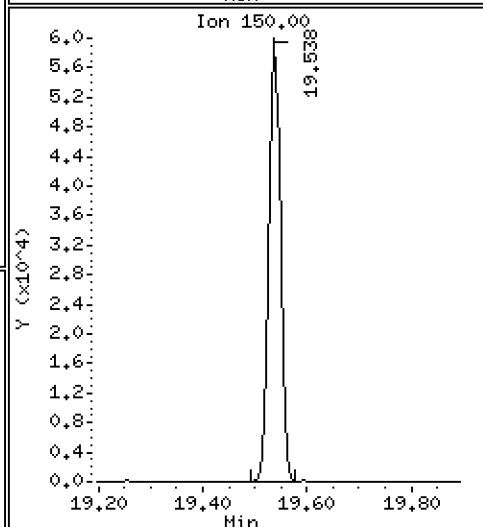
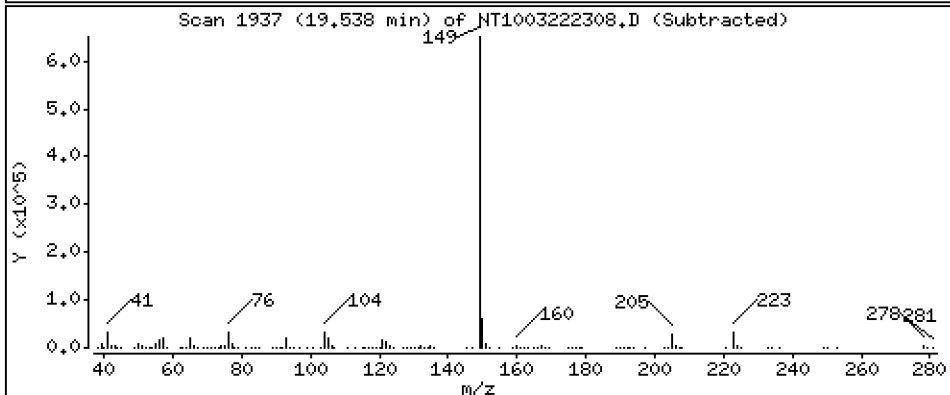
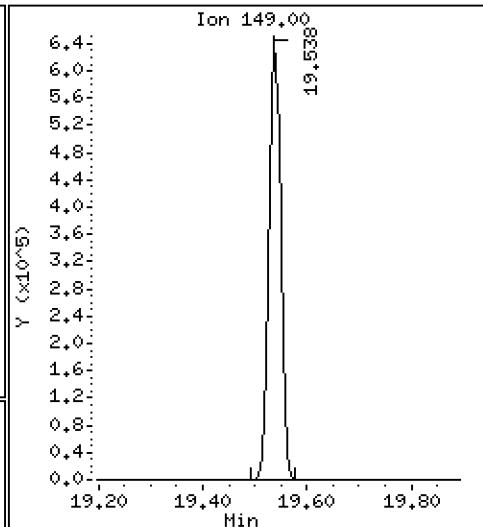
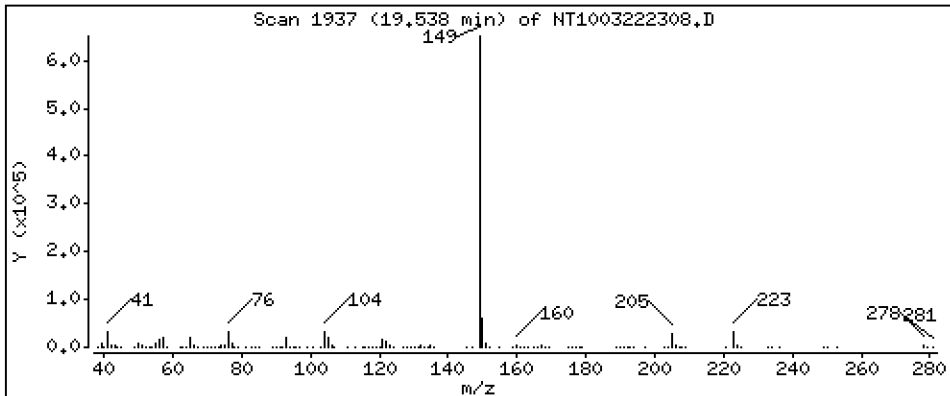
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 5,236 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

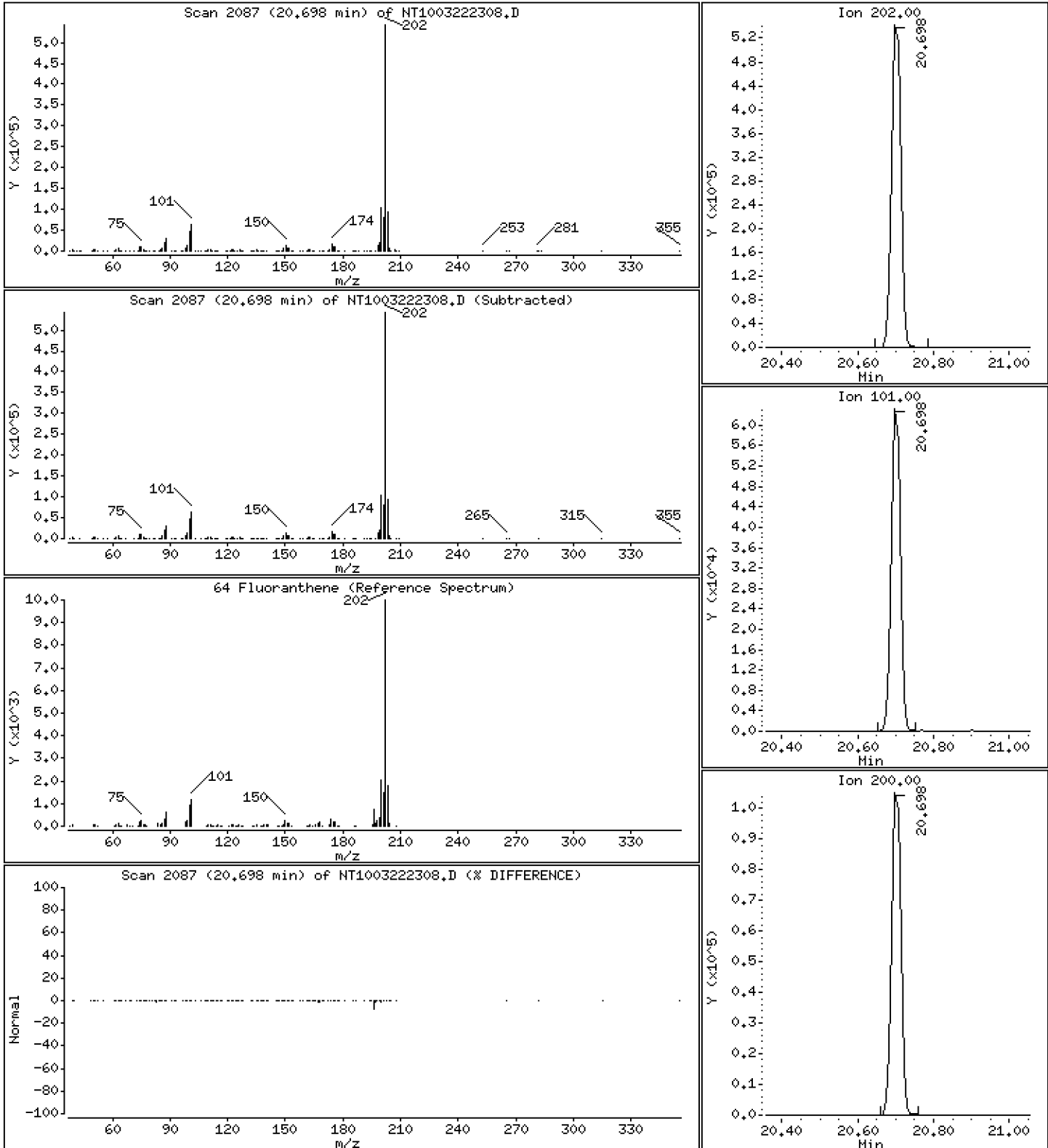
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,268 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

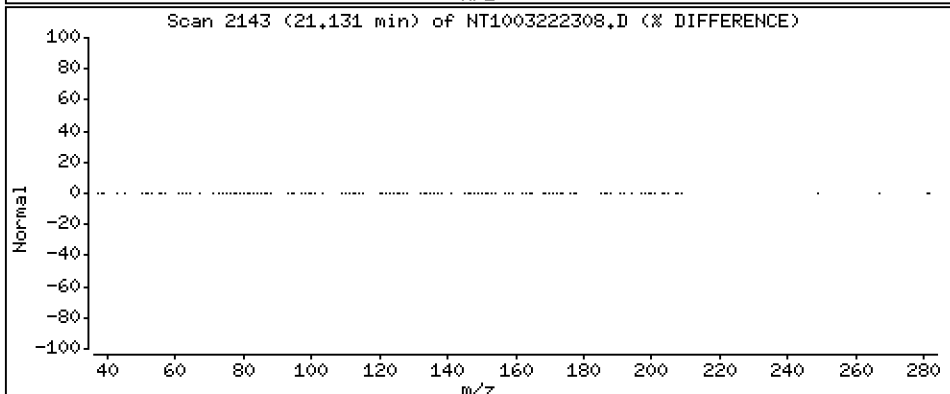
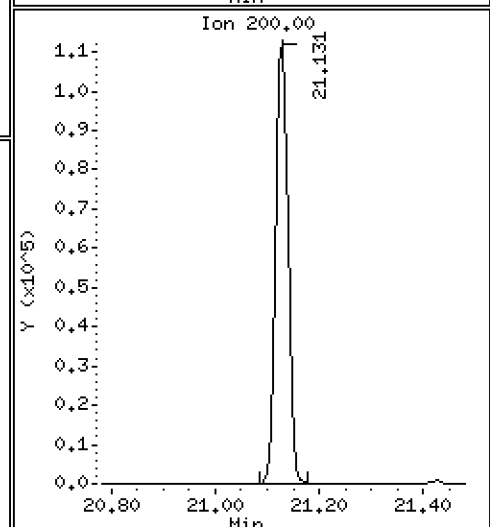
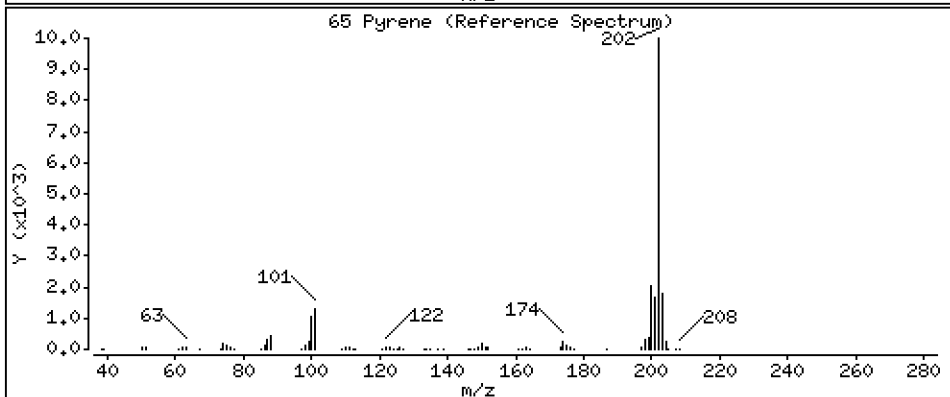
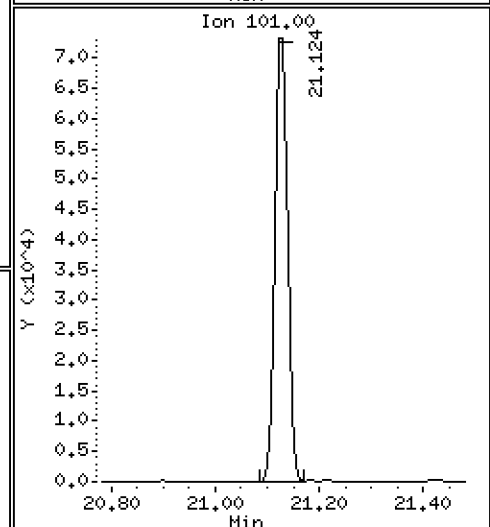
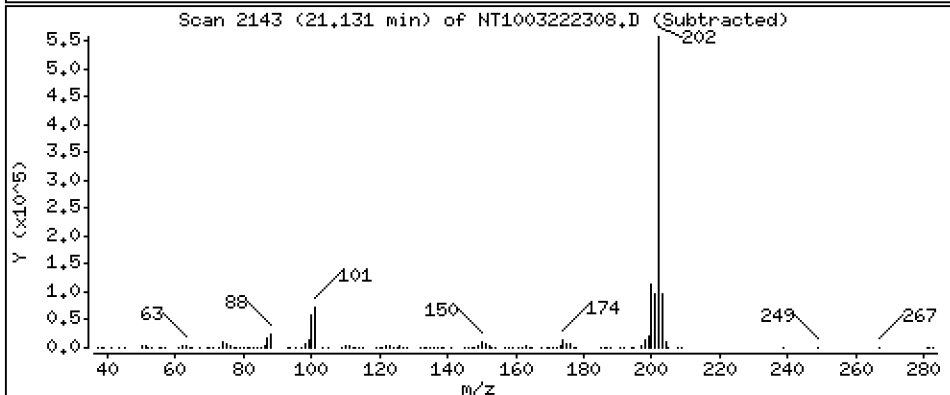
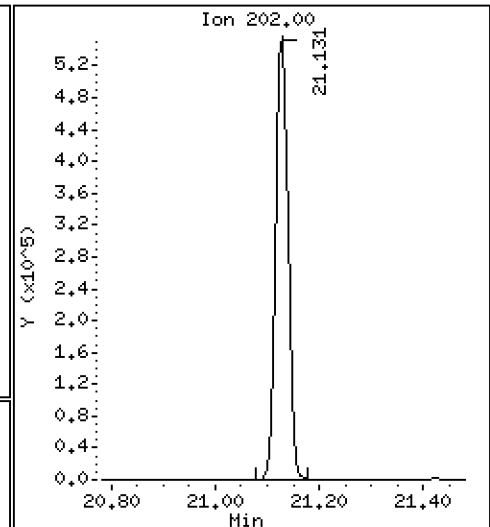
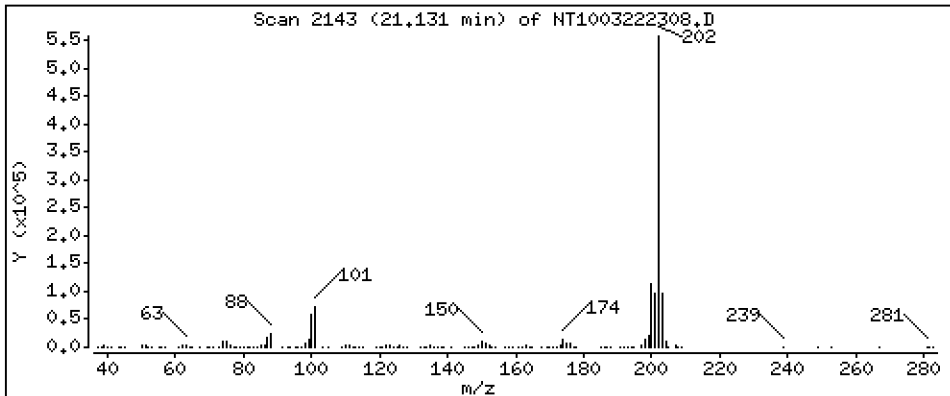
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,176 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

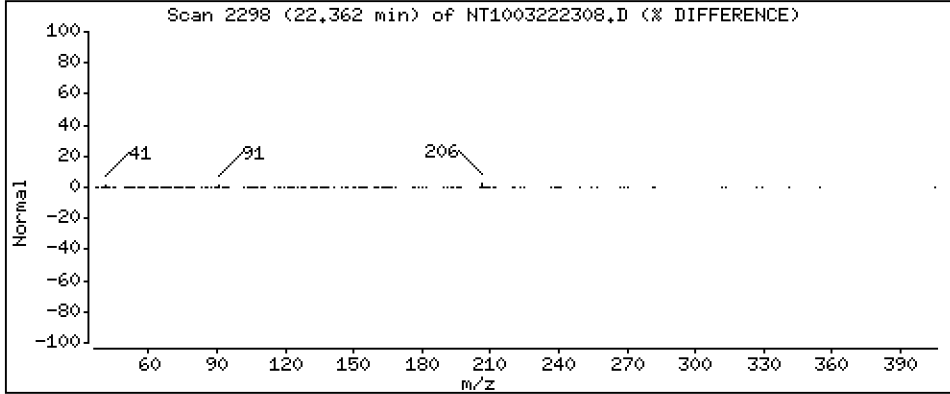
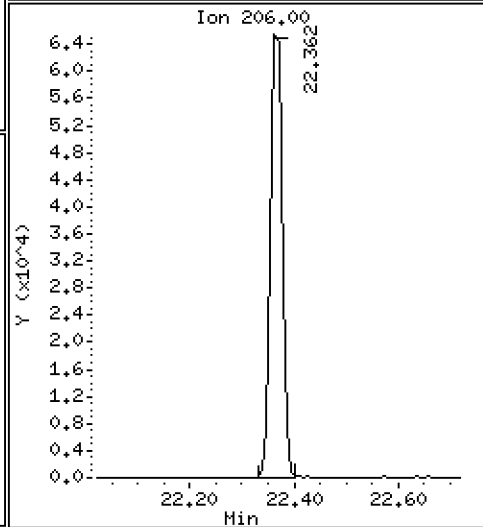
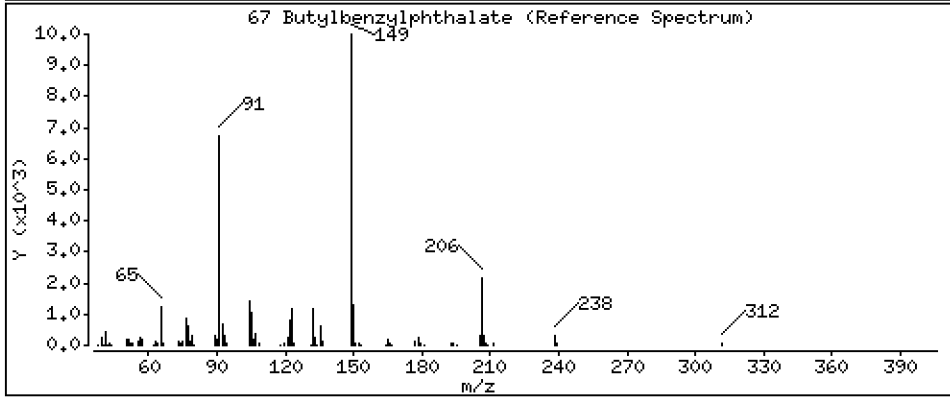
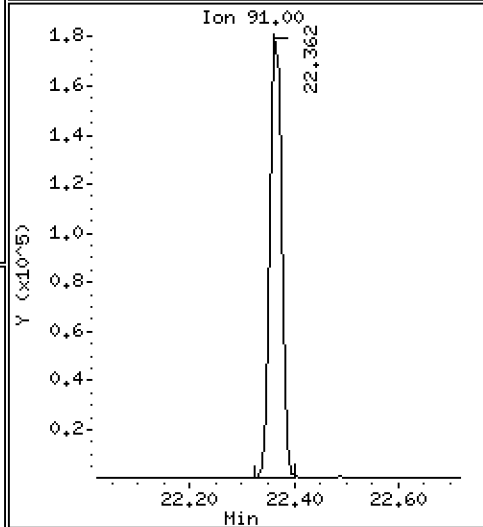
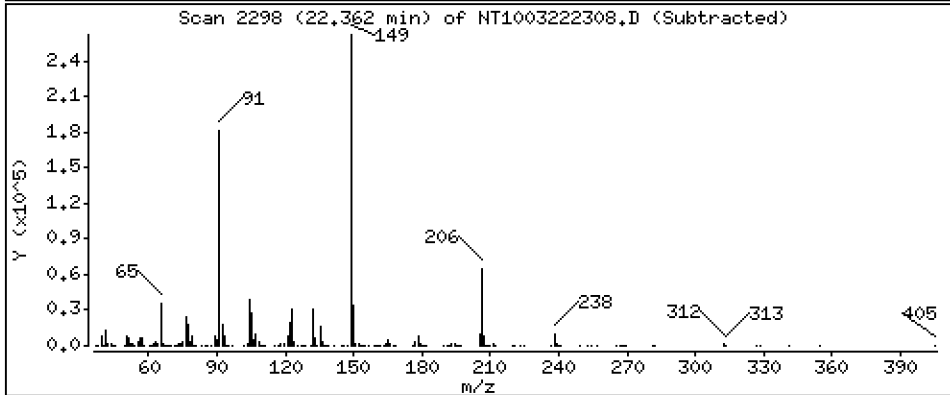
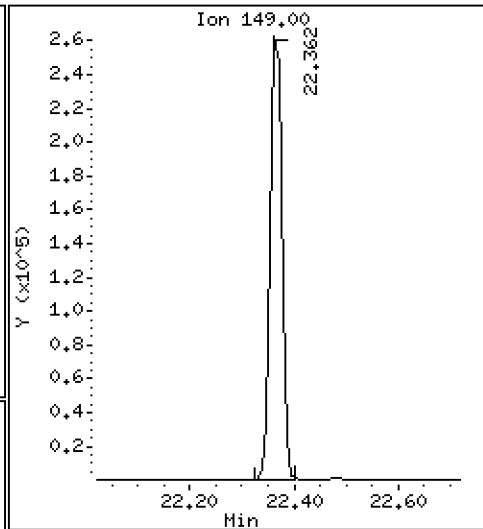
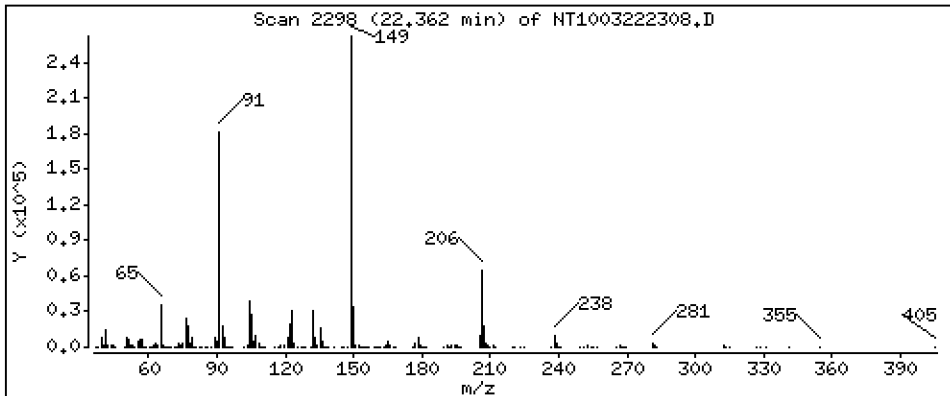
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,034 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

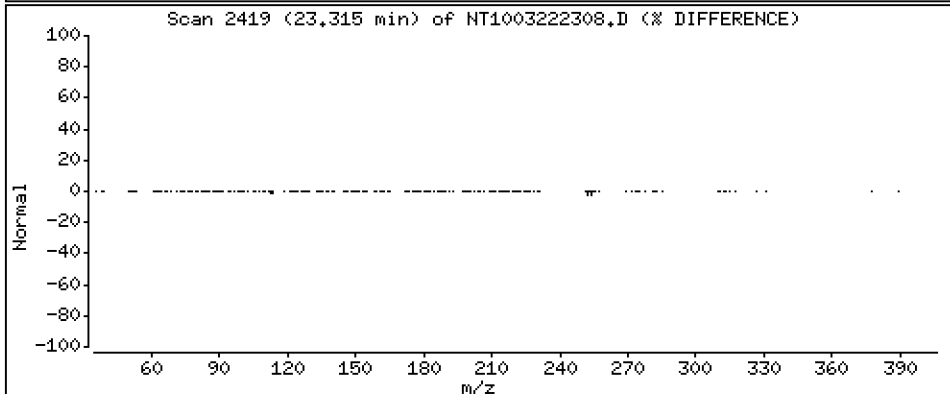
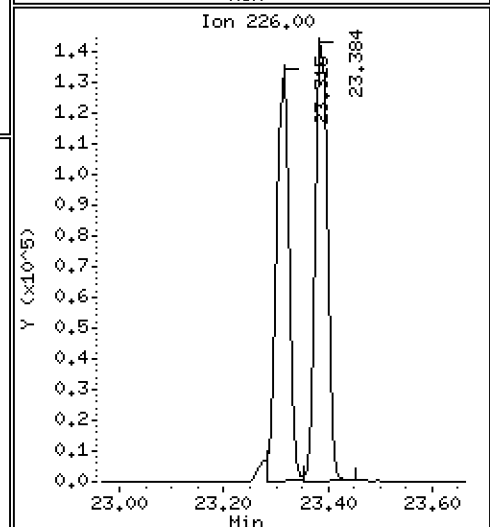
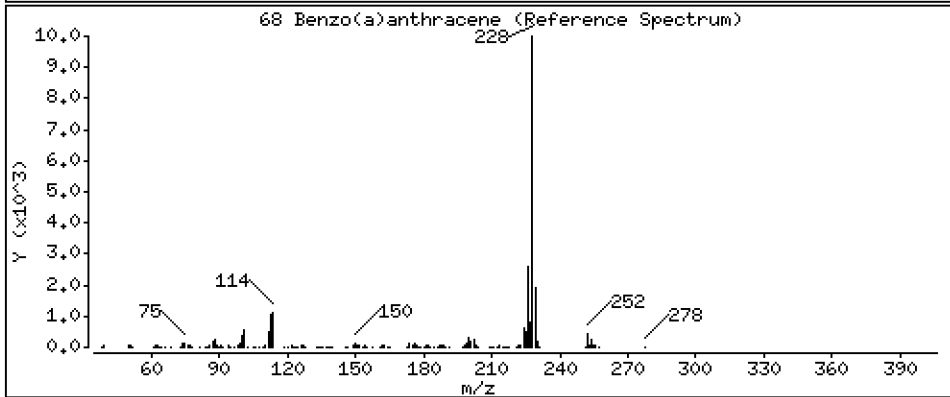
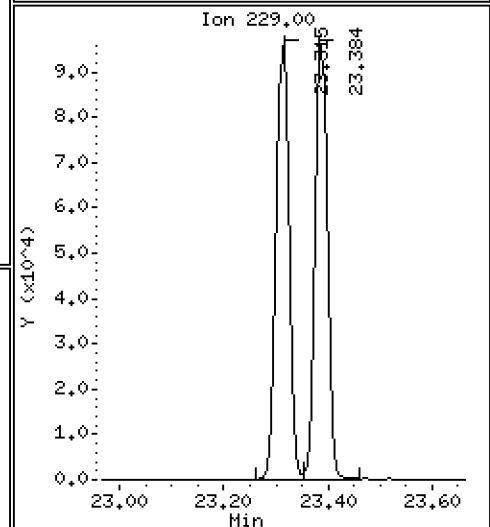
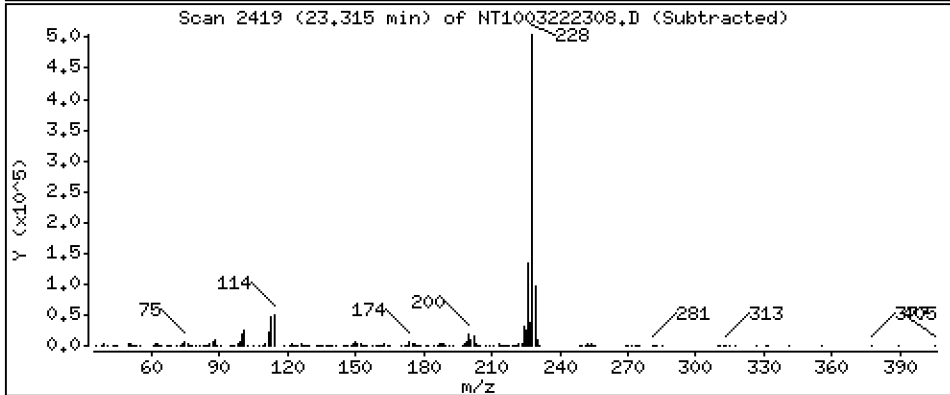
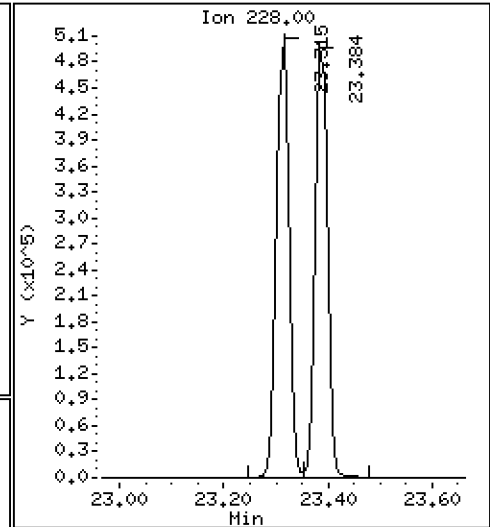
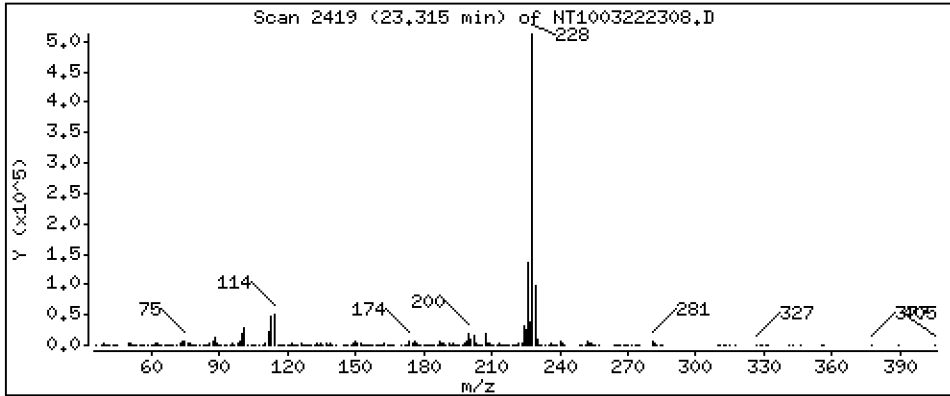
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,526 ug/mL





Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

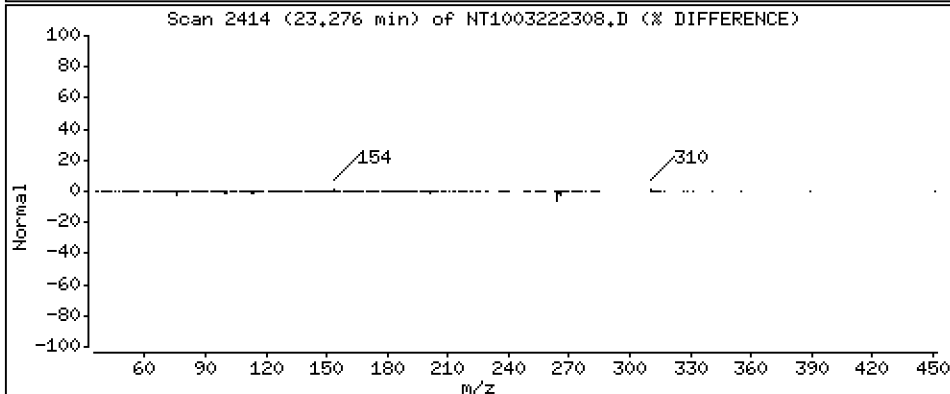
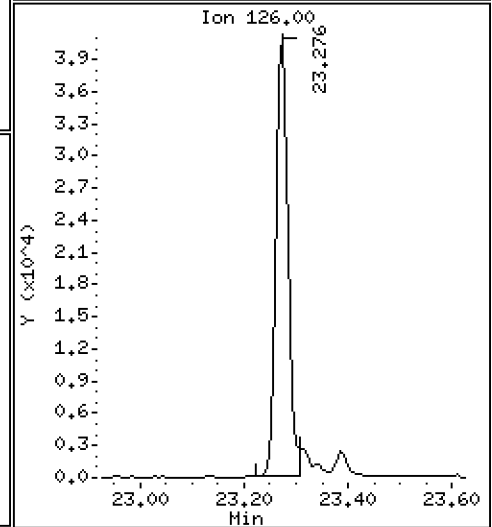
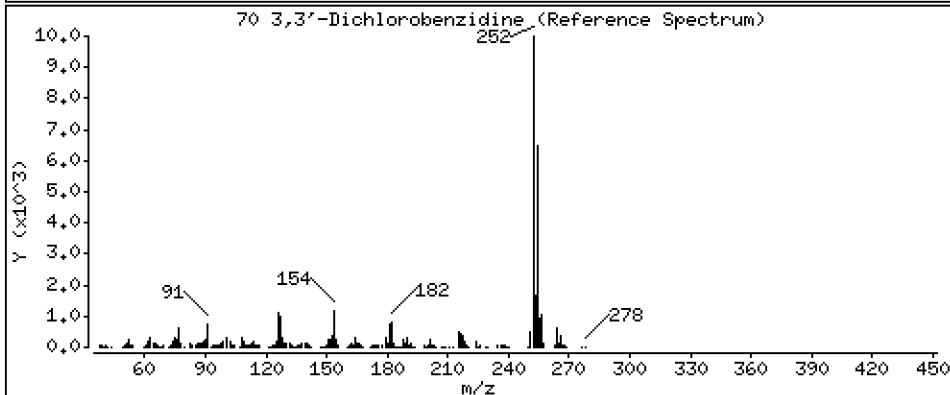
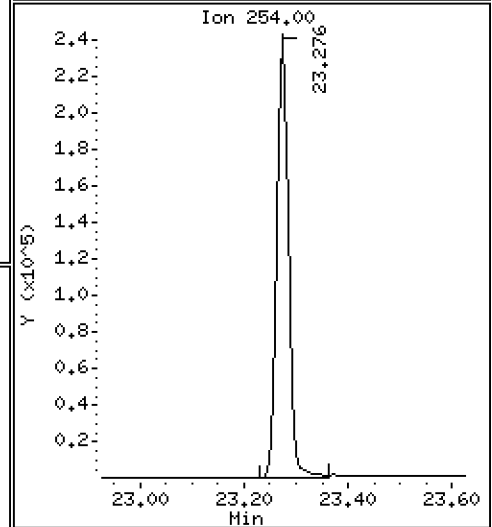
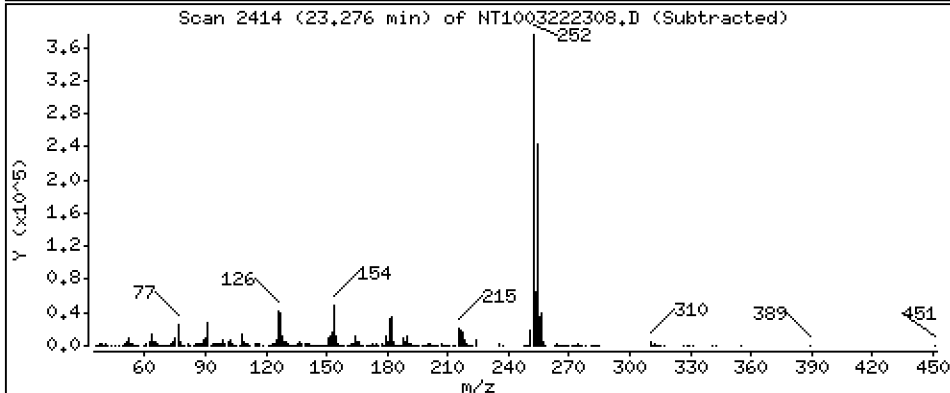
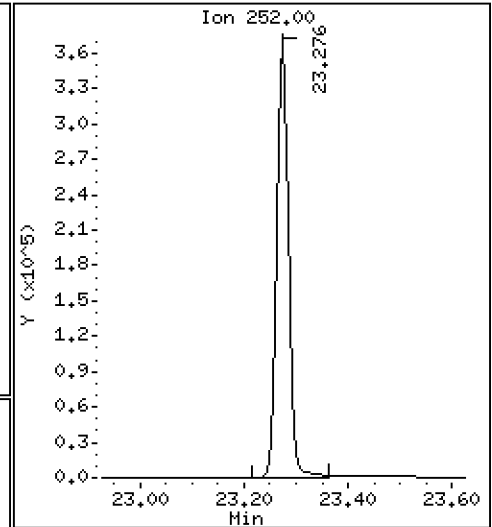
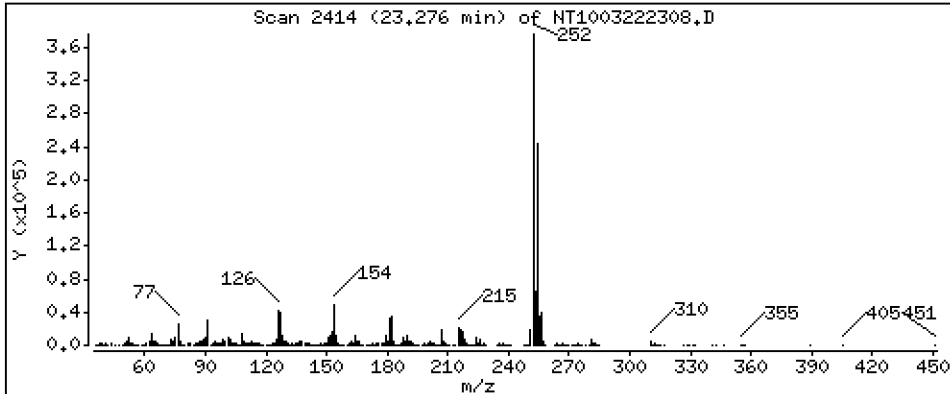
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 9,504 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

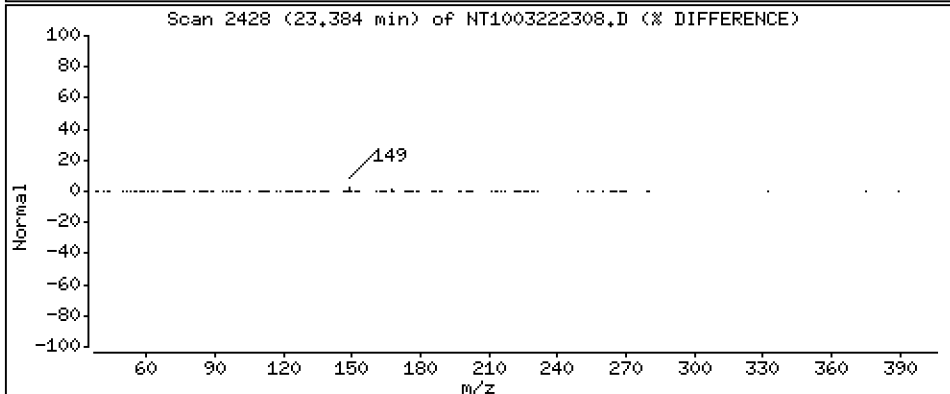
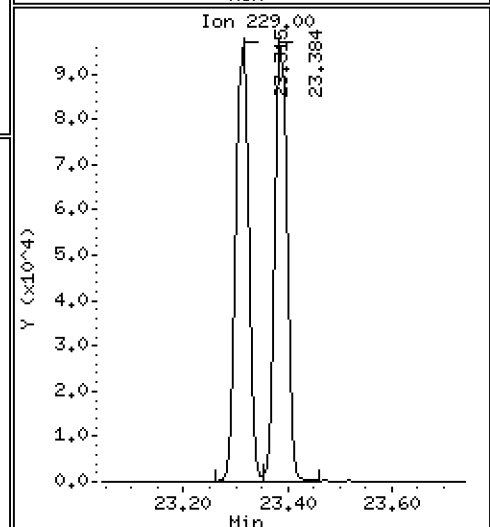
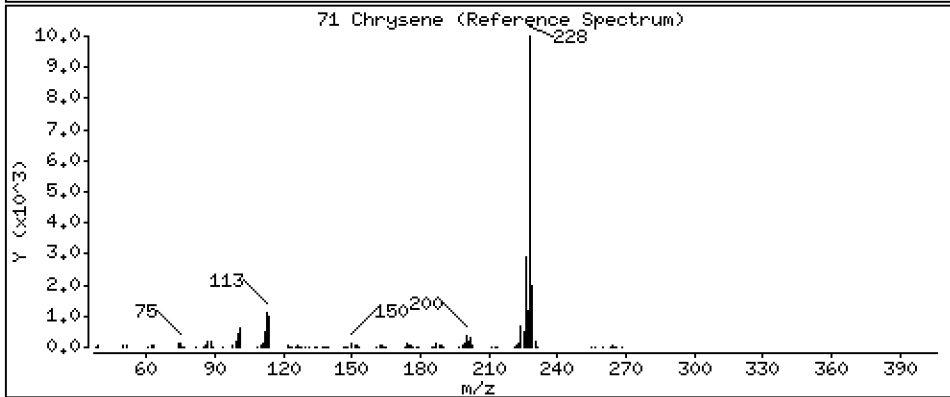
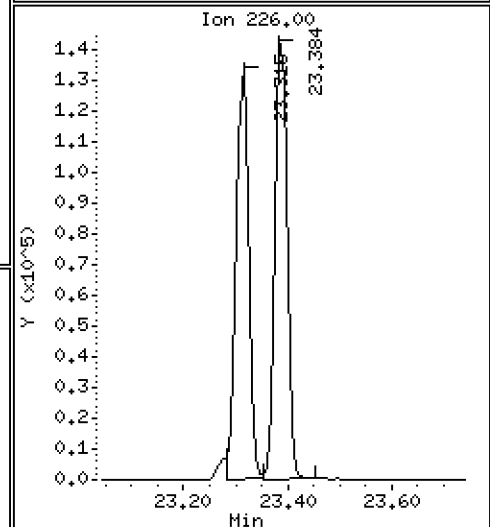
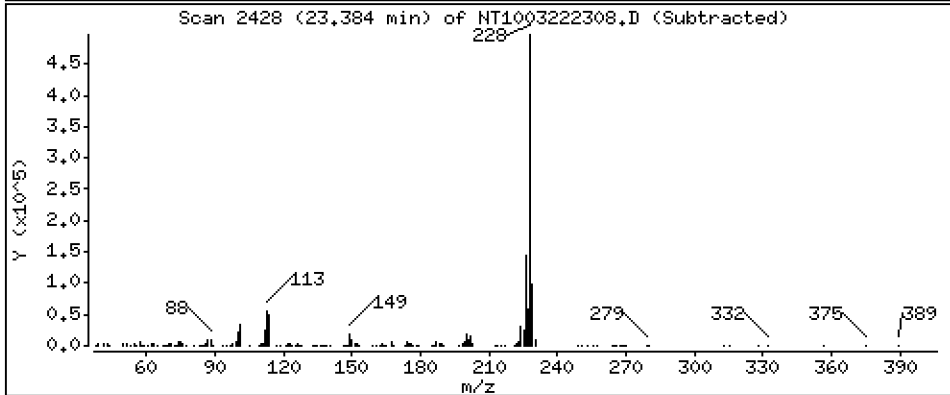
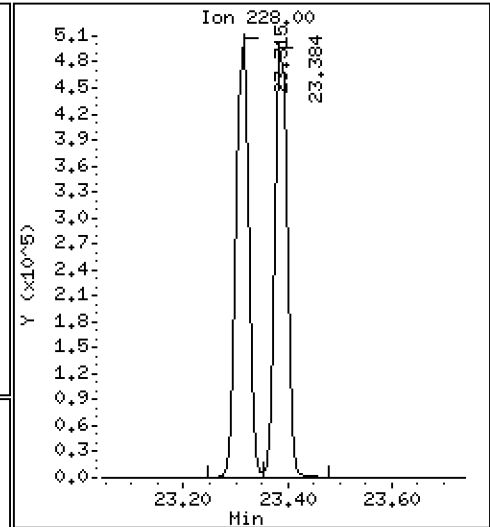
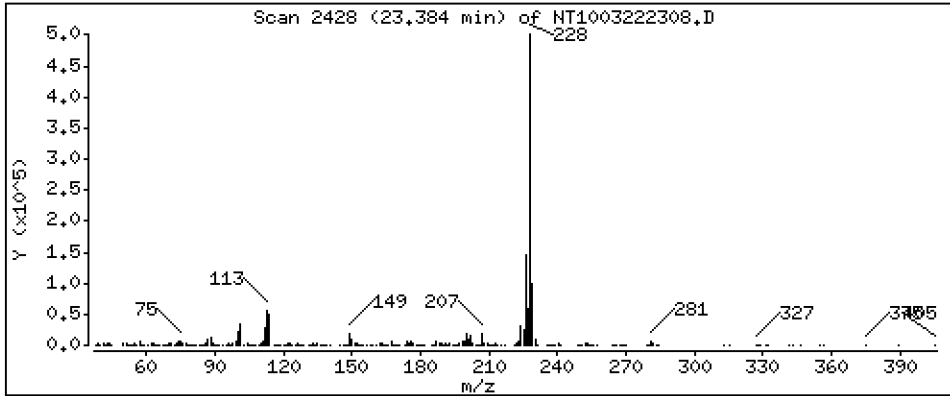
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,376 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

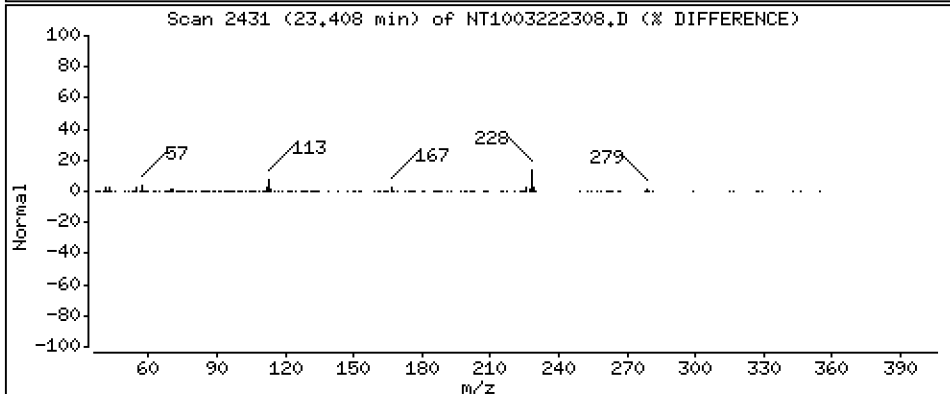
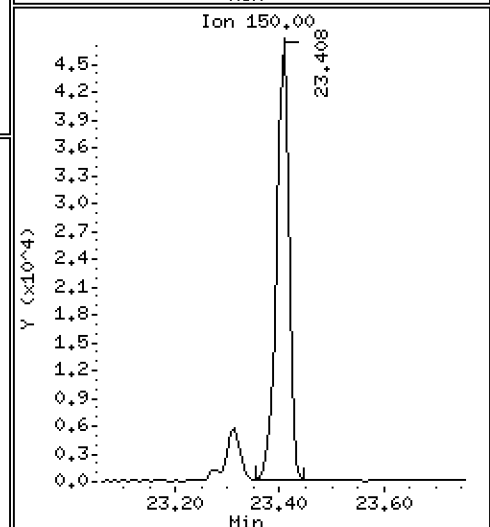
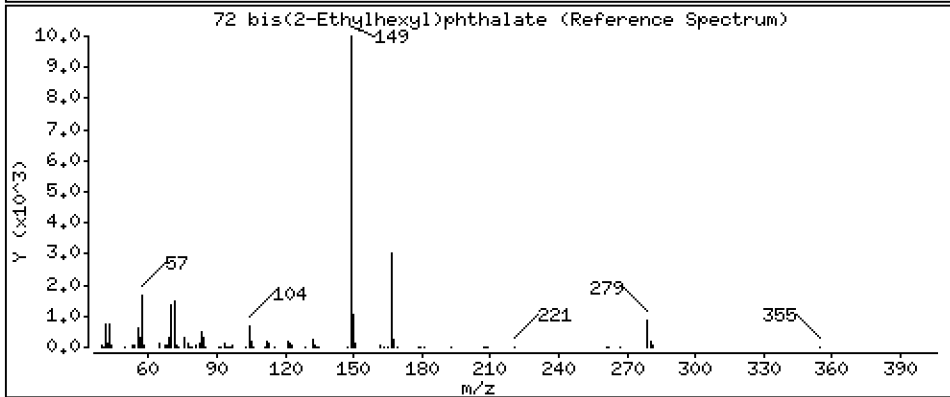
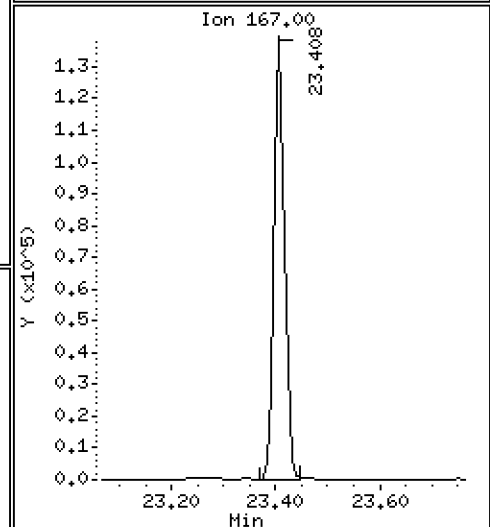
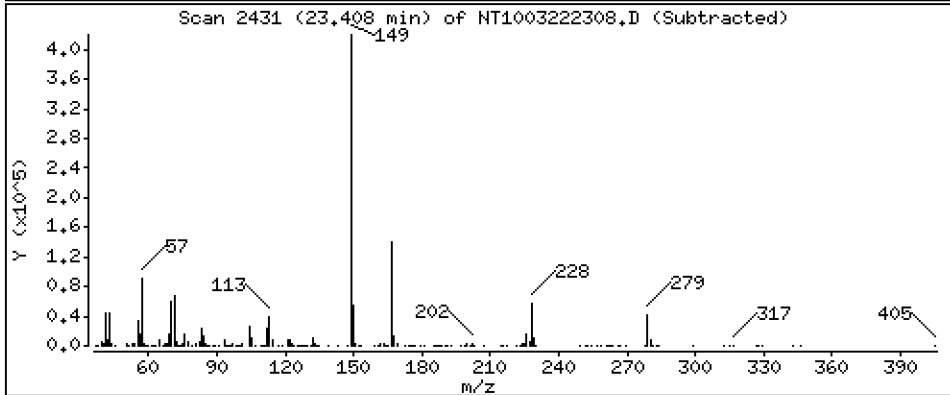
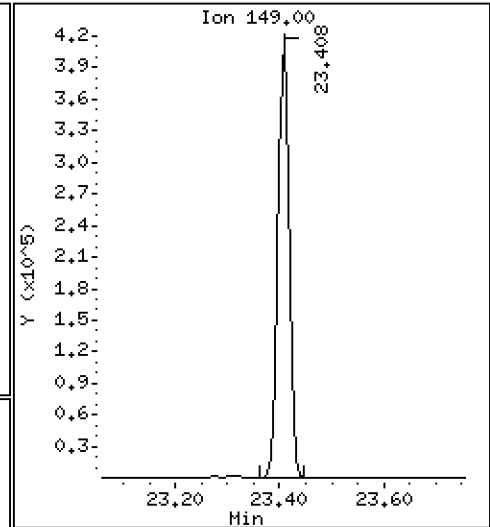
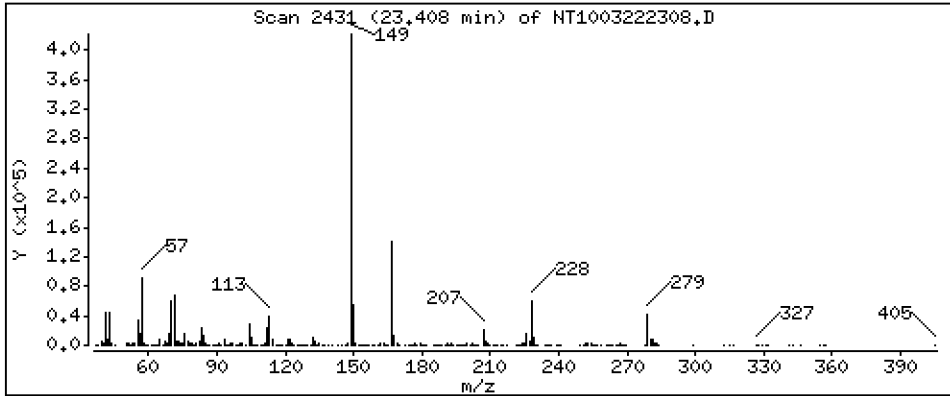
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,724 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

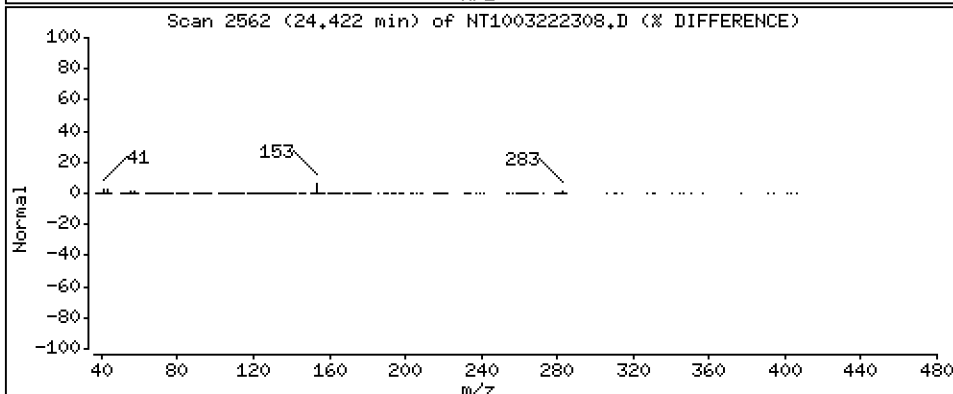
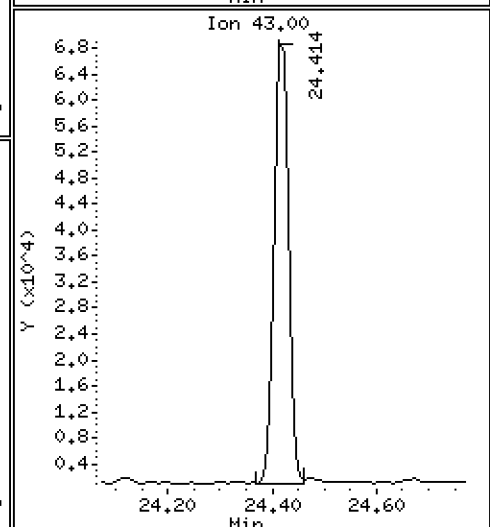
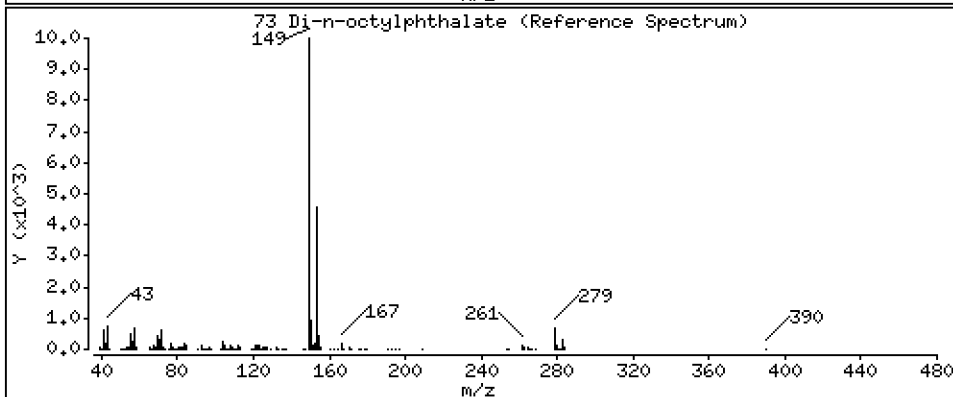
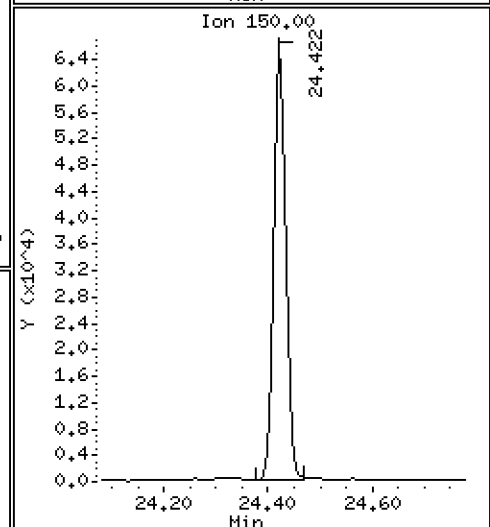
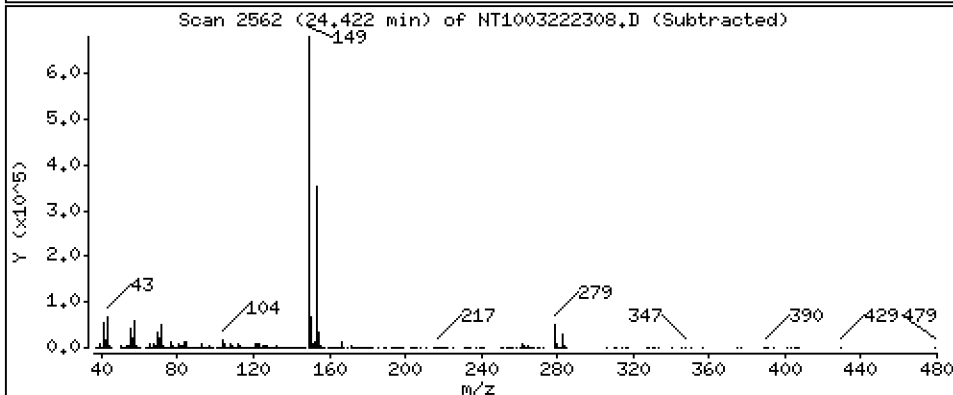
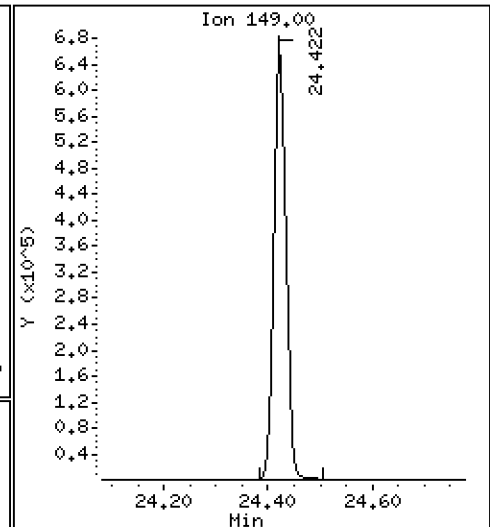
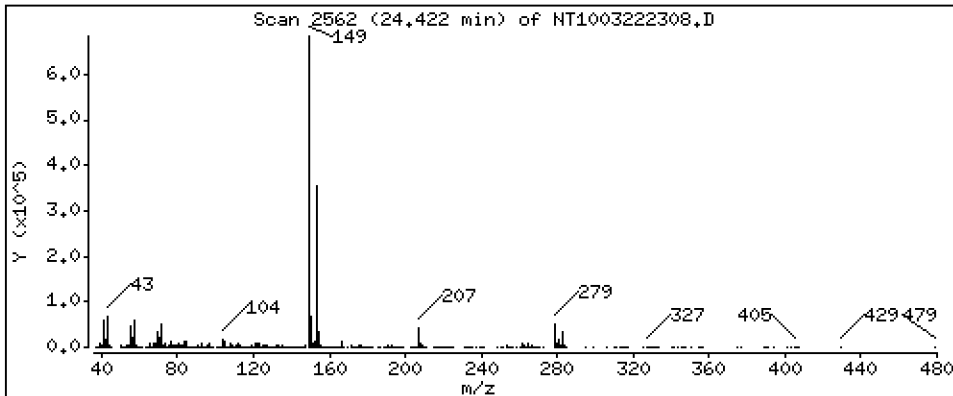
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,755 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

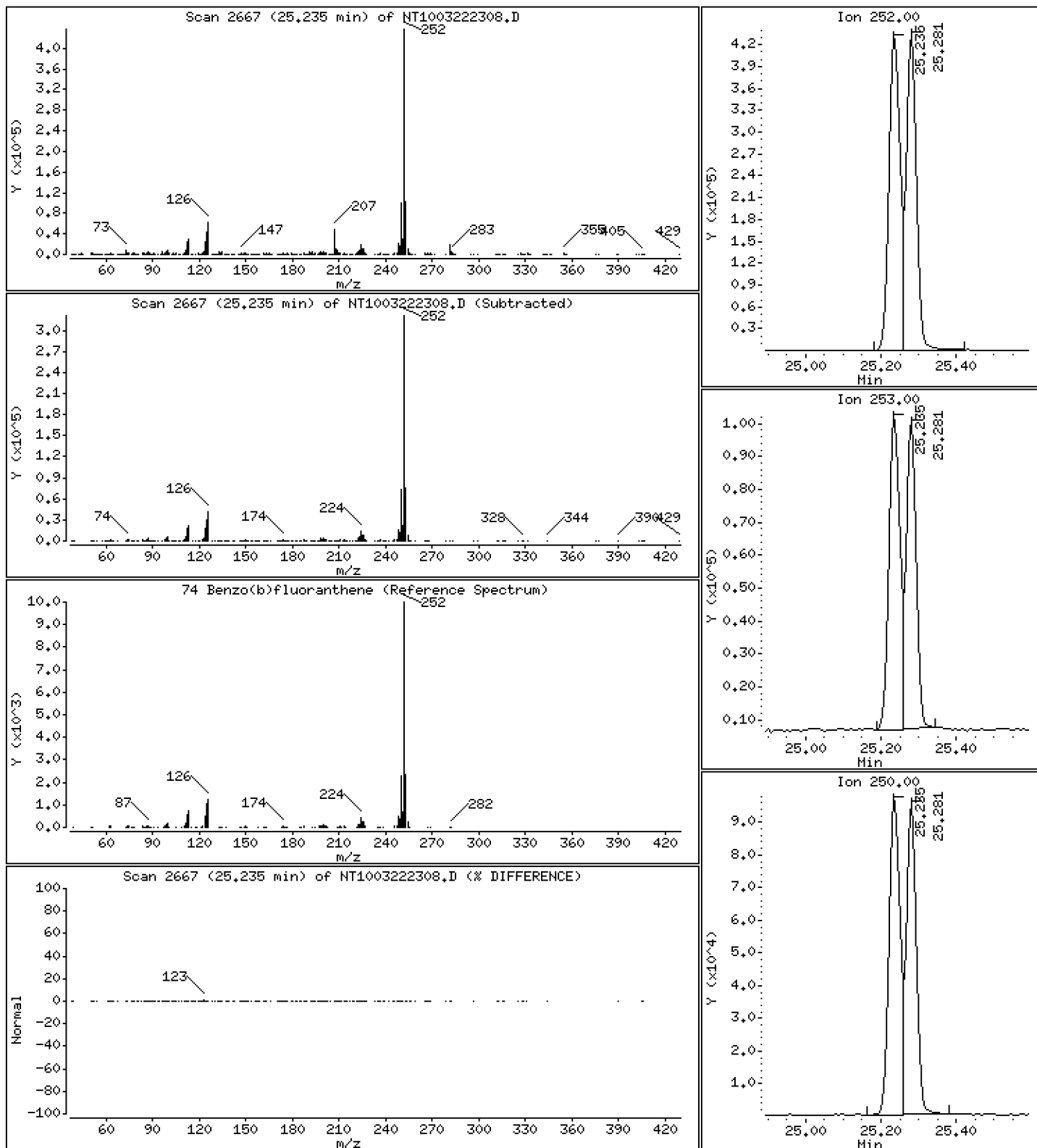
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,823 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

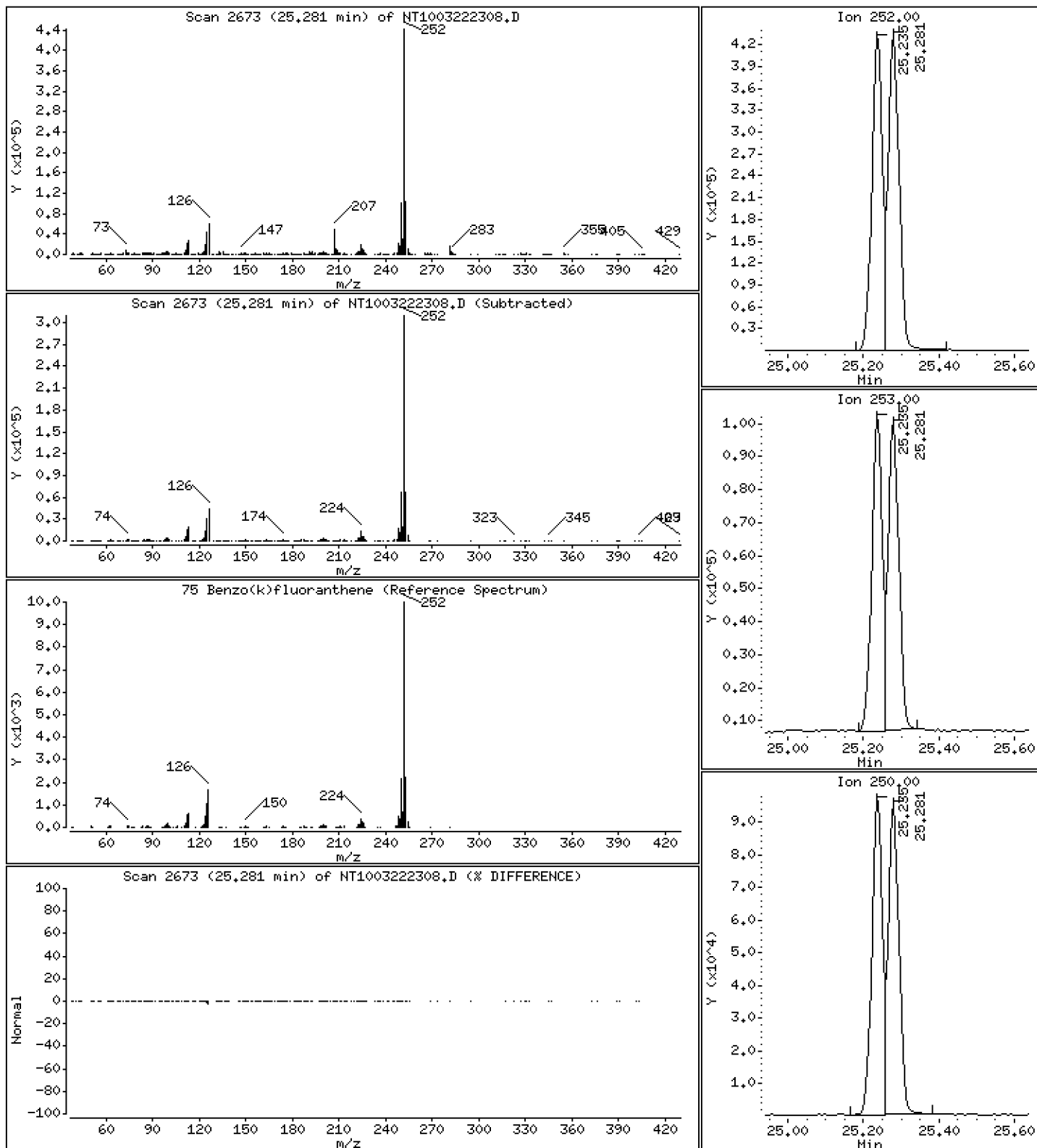
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,850 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

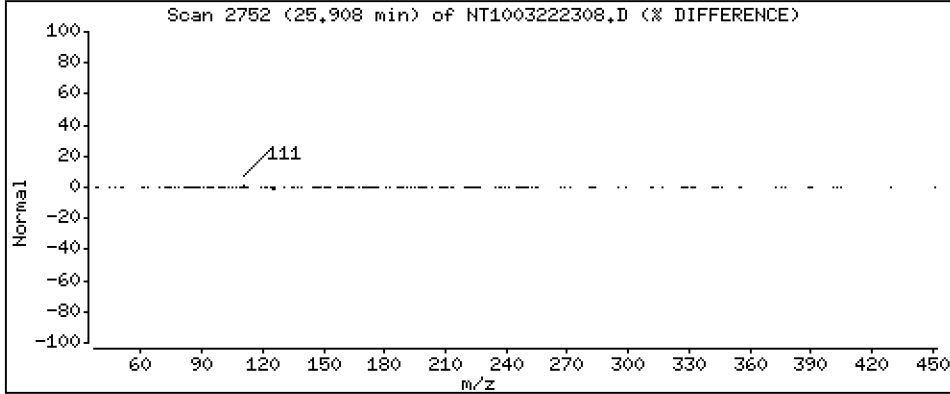
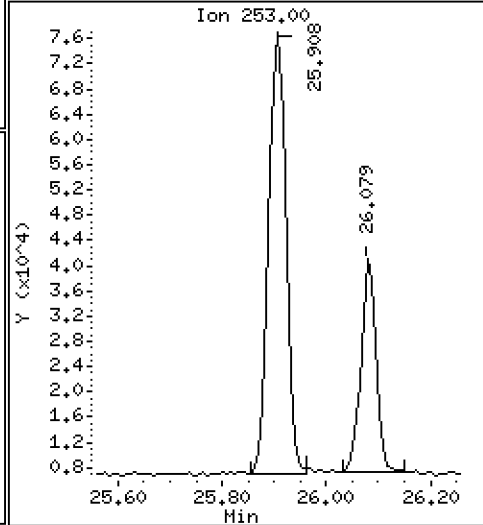
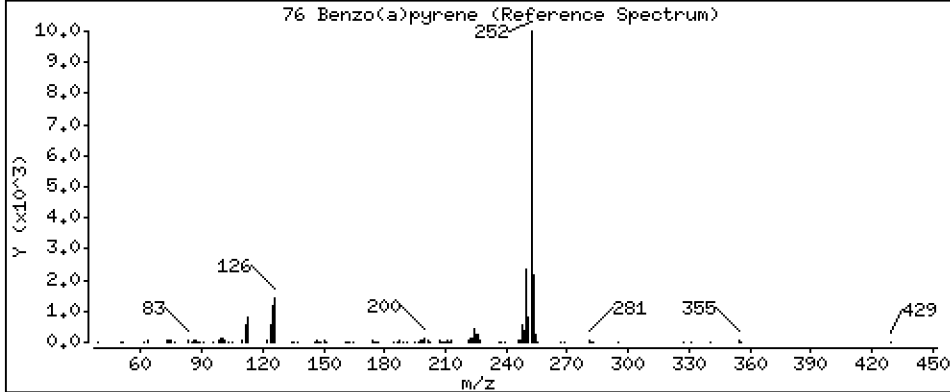
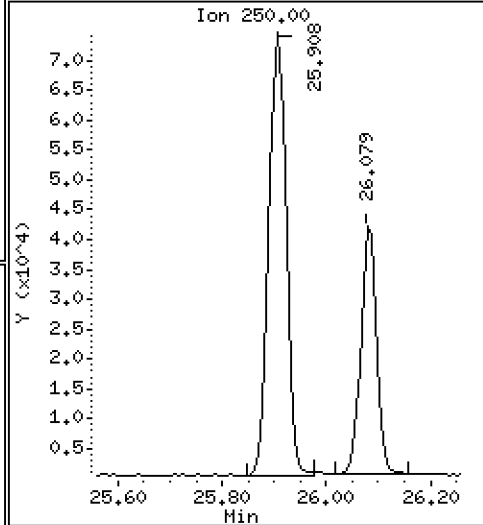
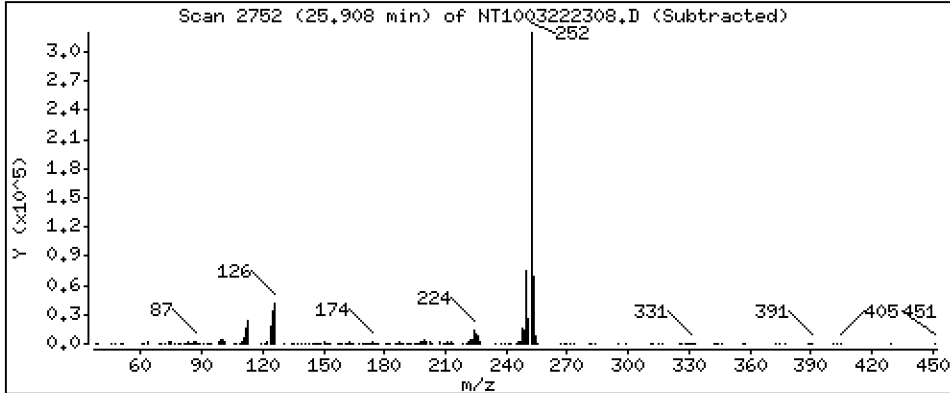
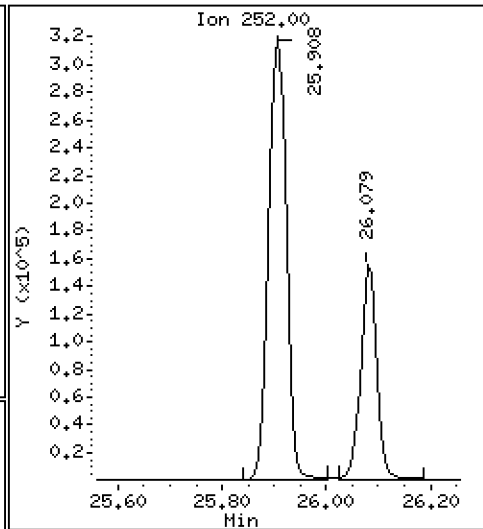
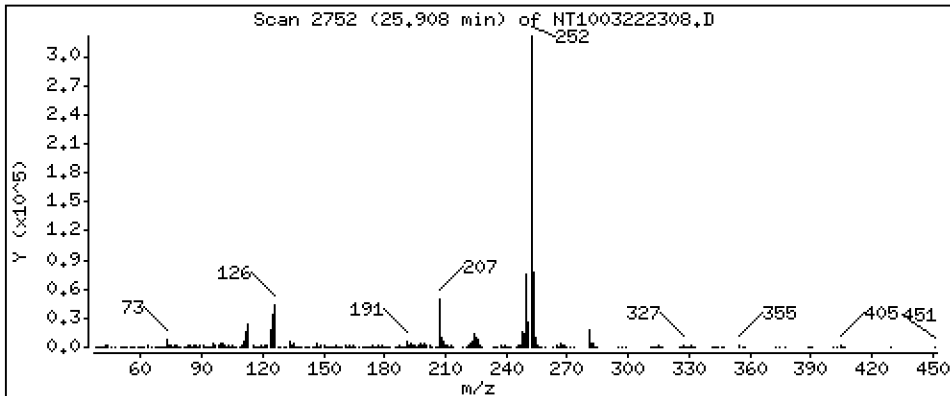
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,550 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

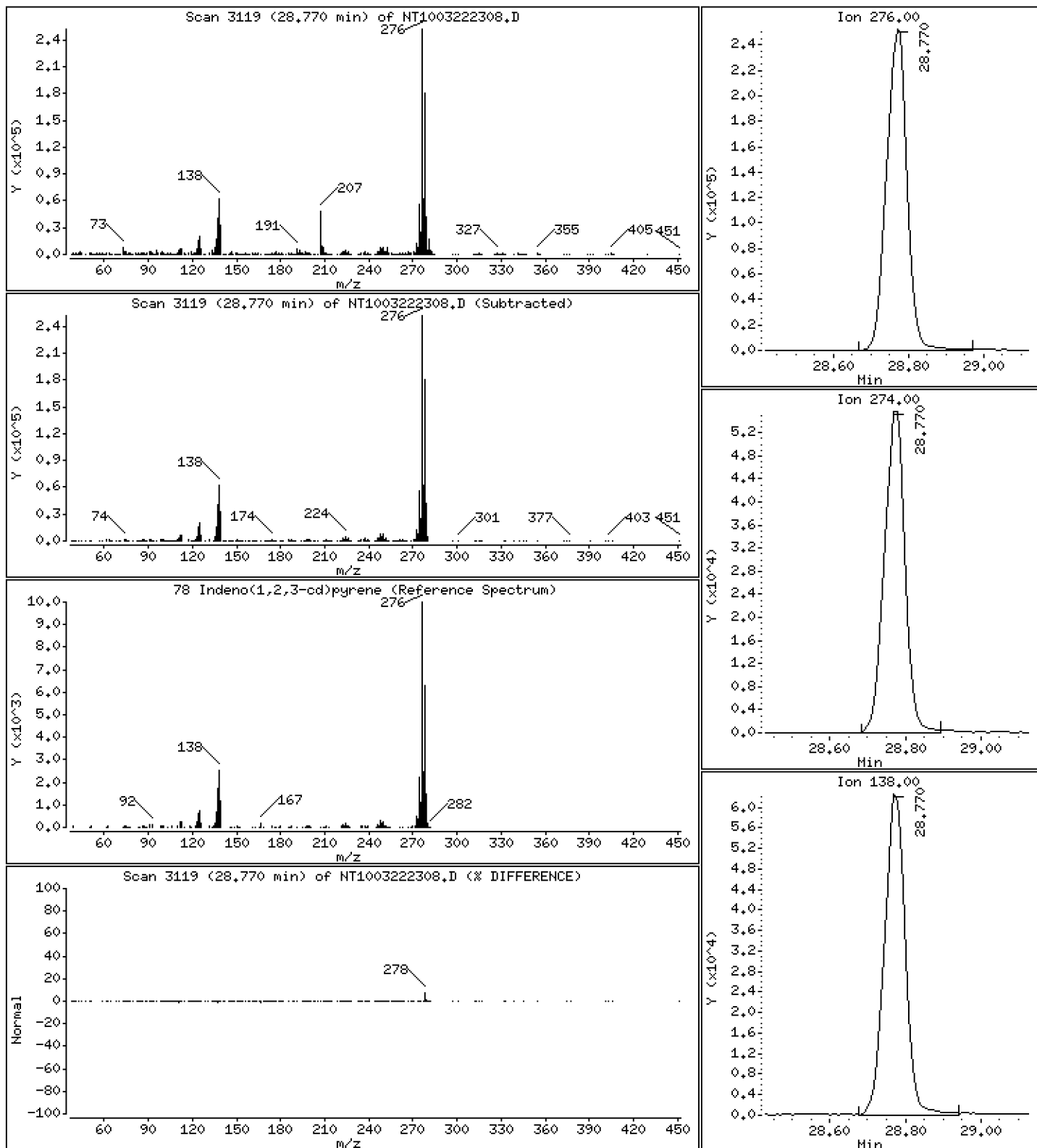
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 4,608 ug/mL





Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

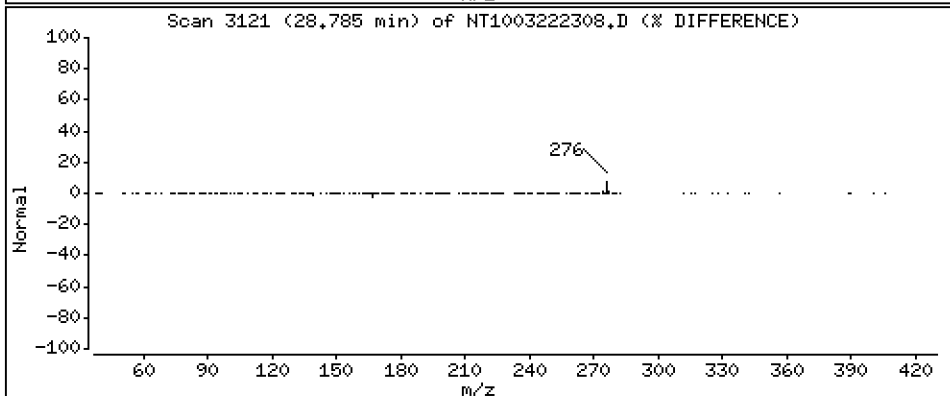
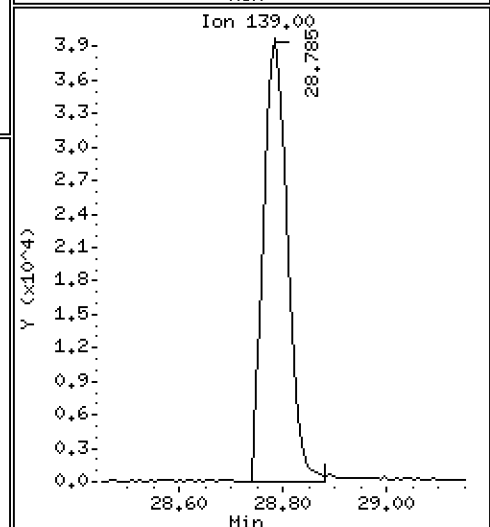
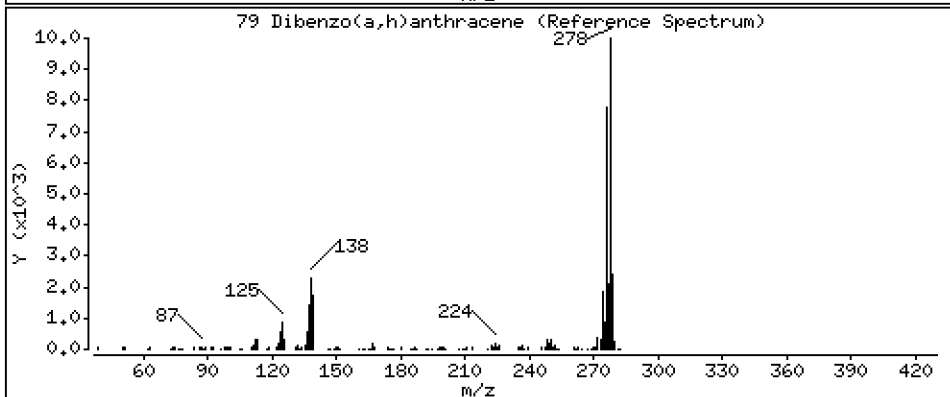
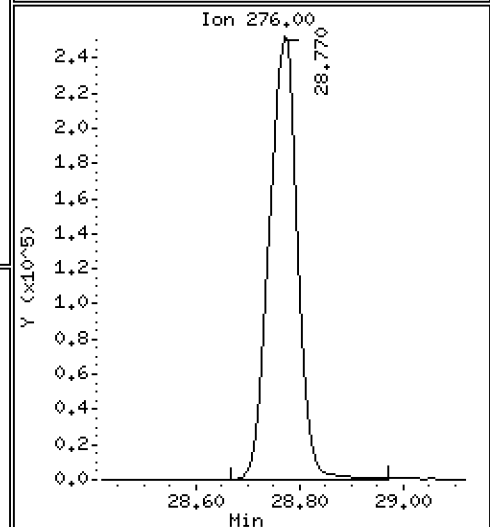
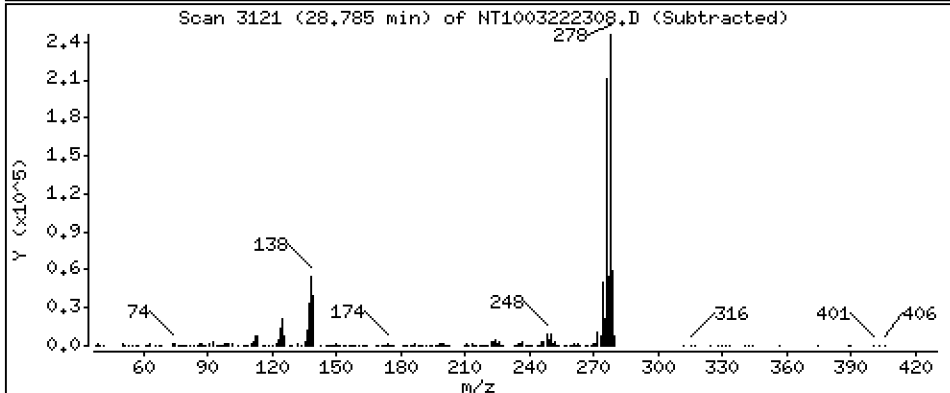
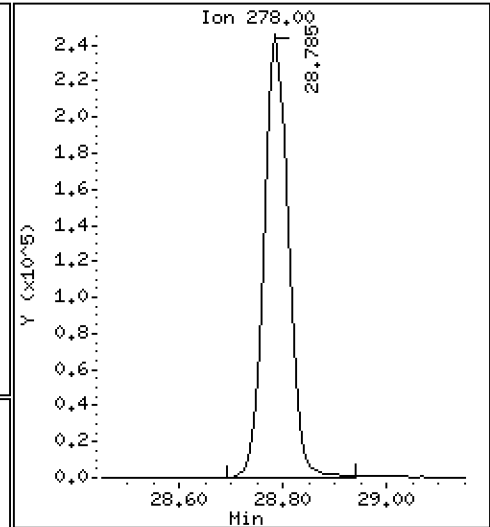
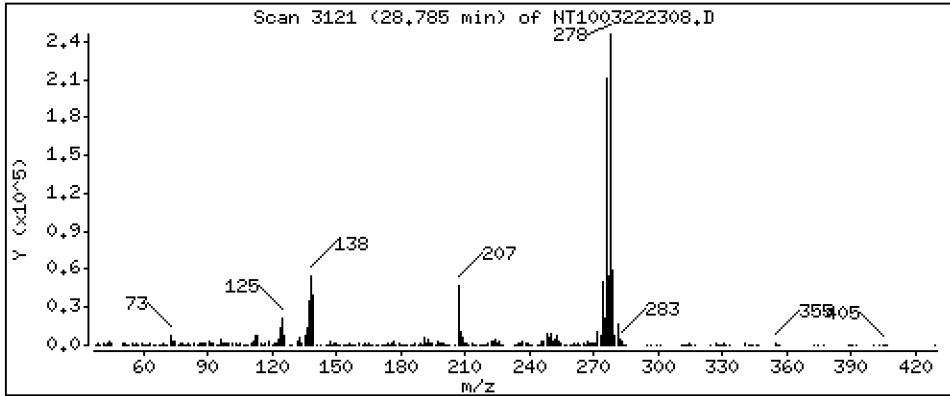
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,674 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

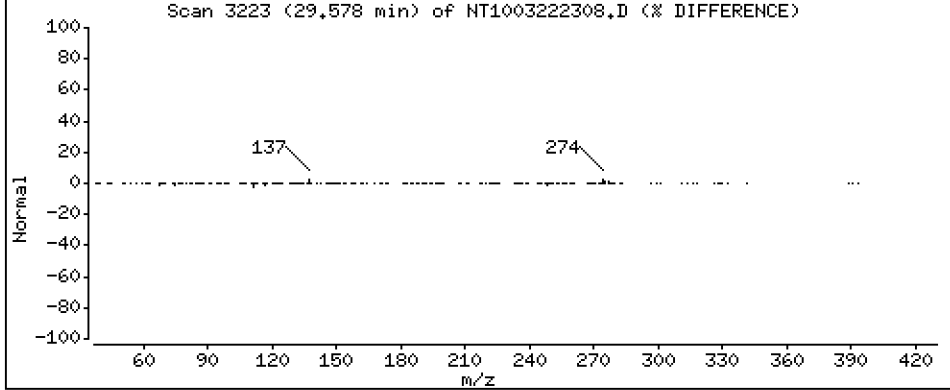
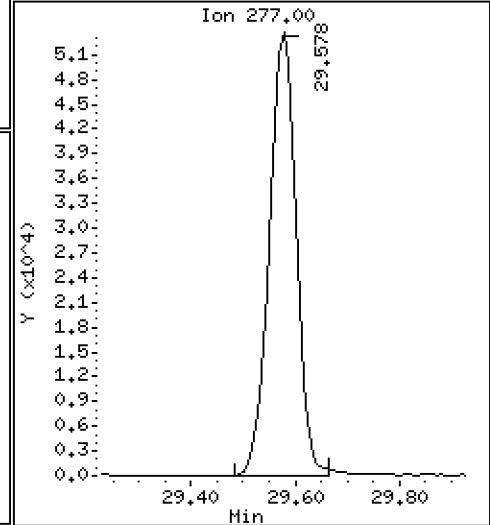
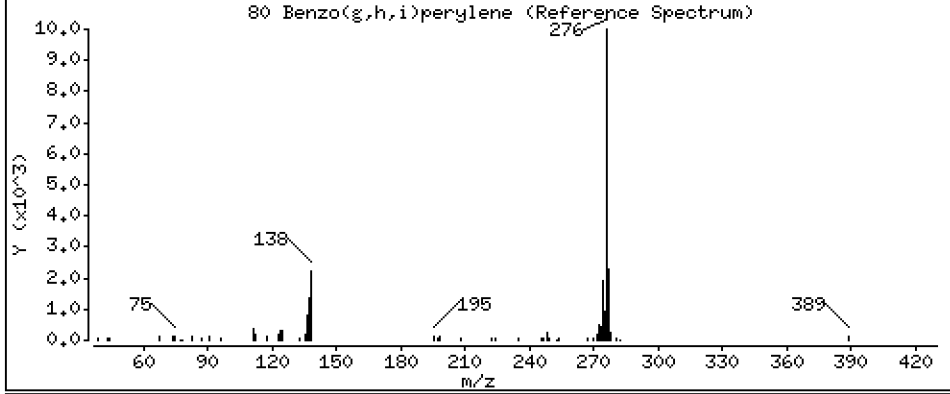
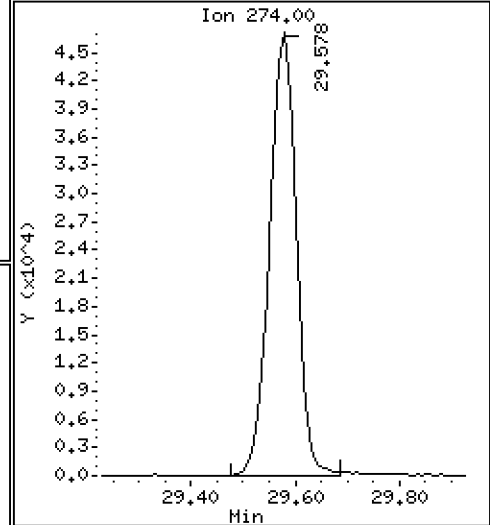
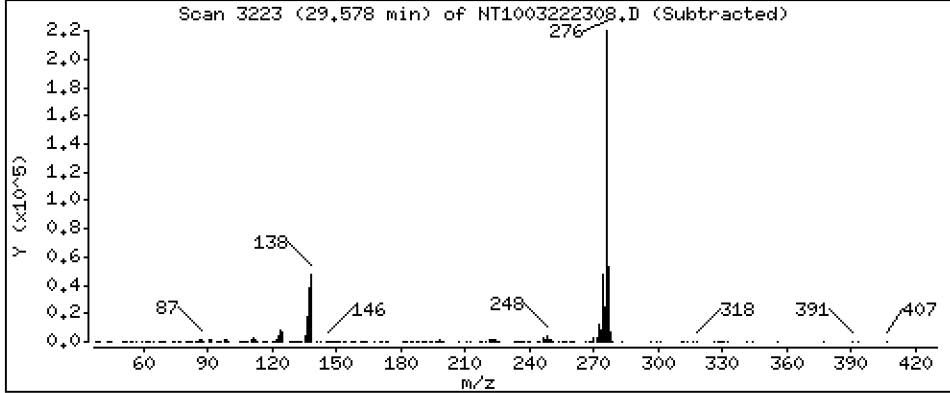
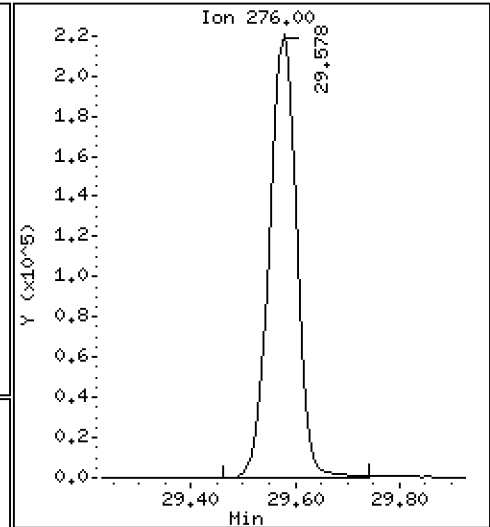
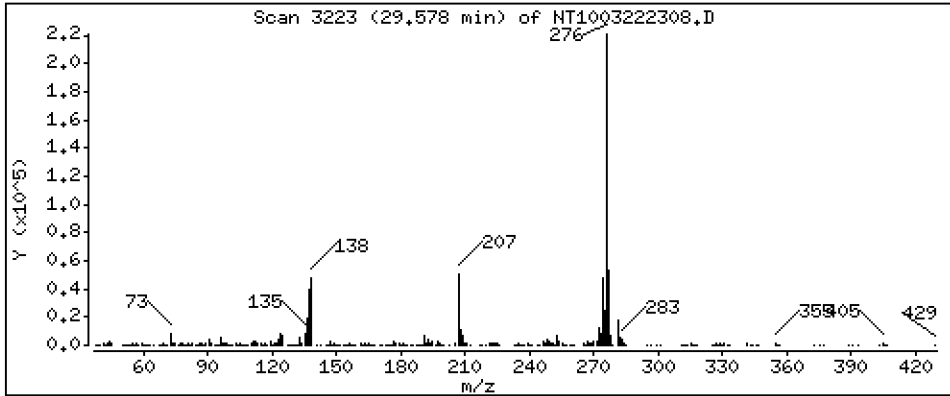
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,473 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

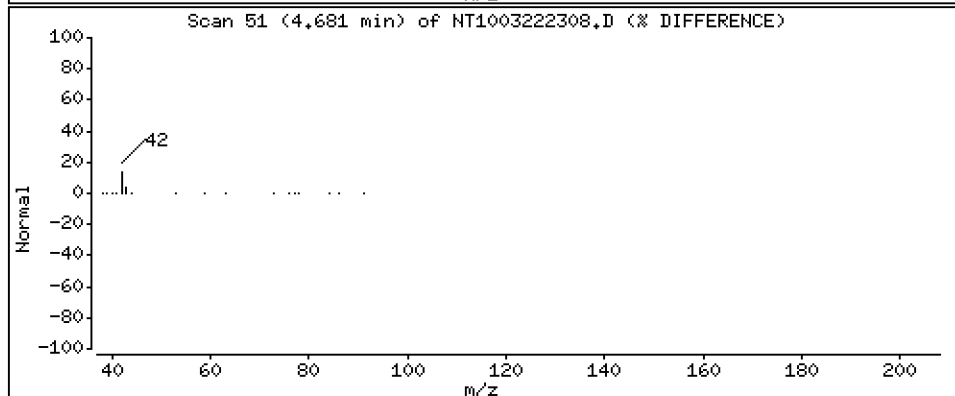
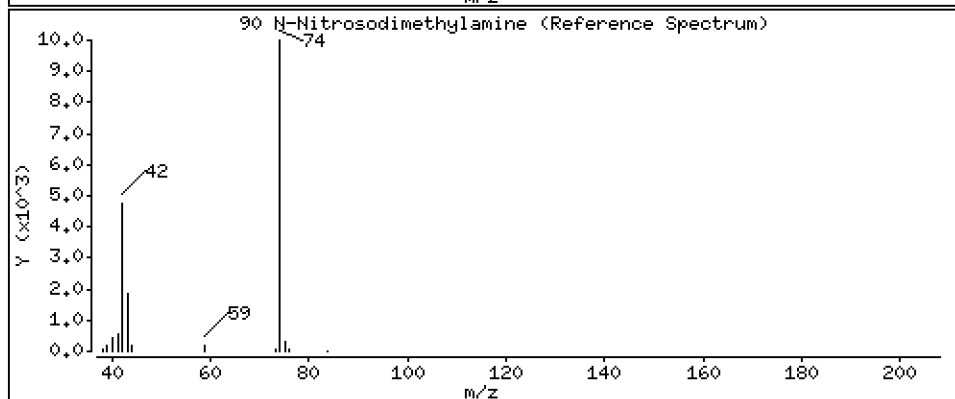
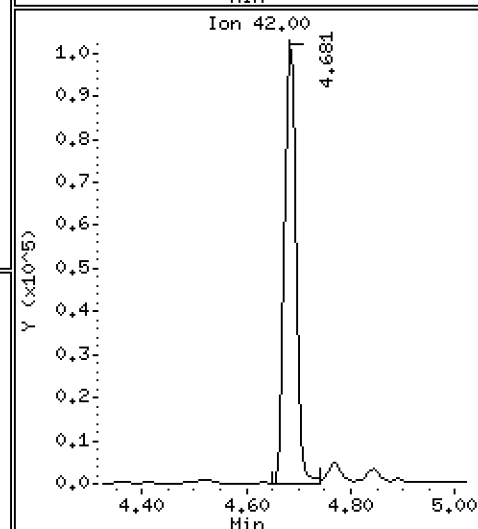
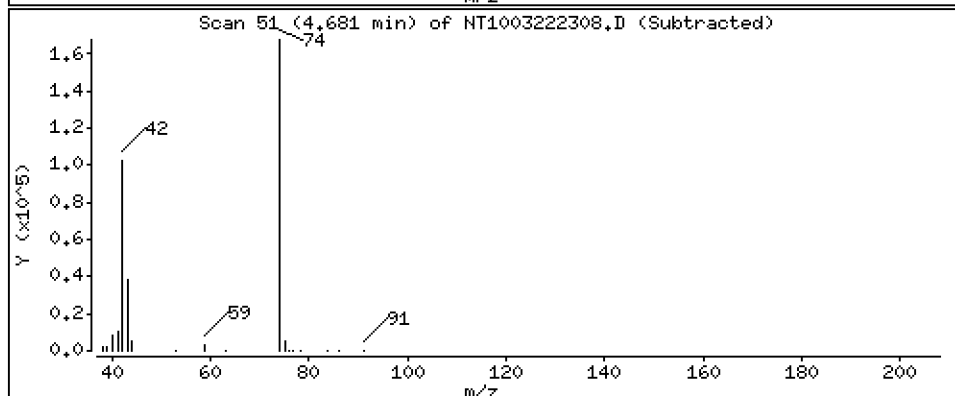
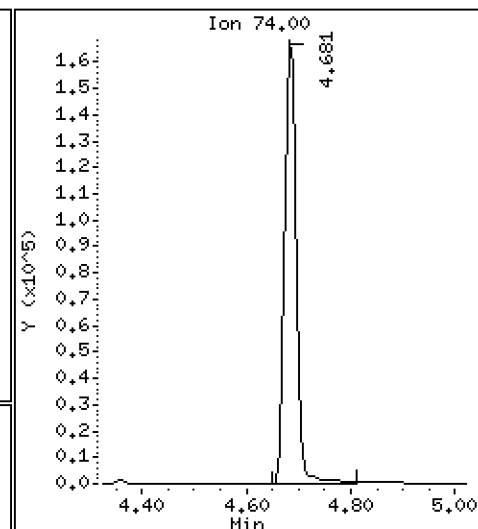
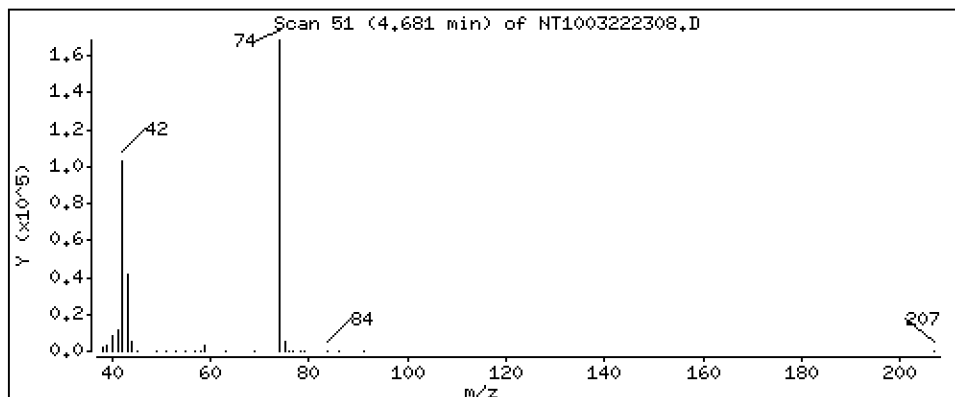
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 8,396 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

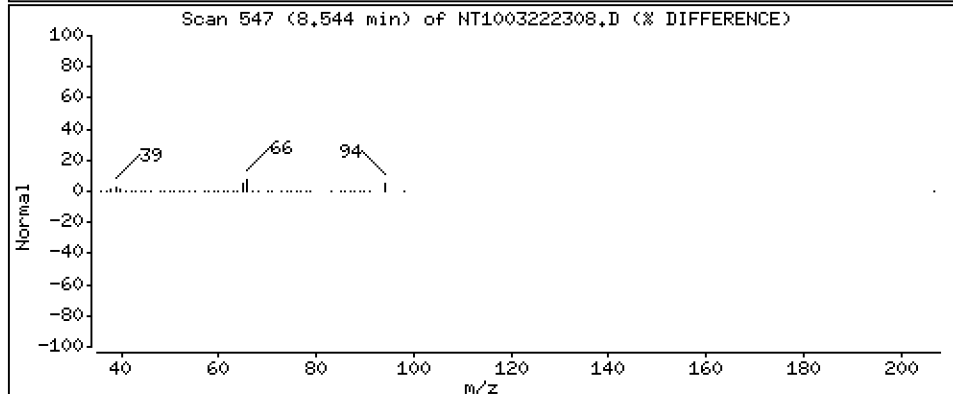
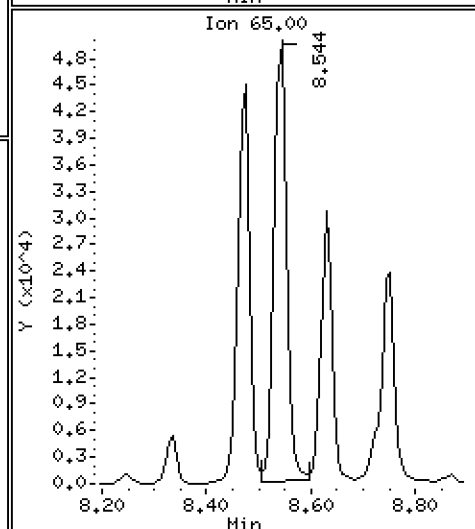
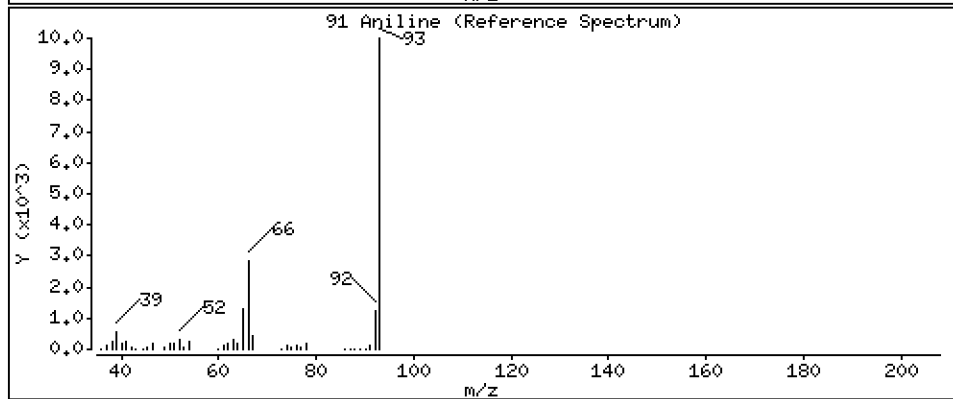
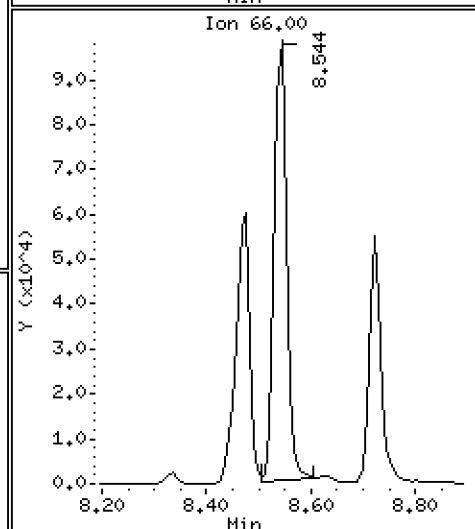
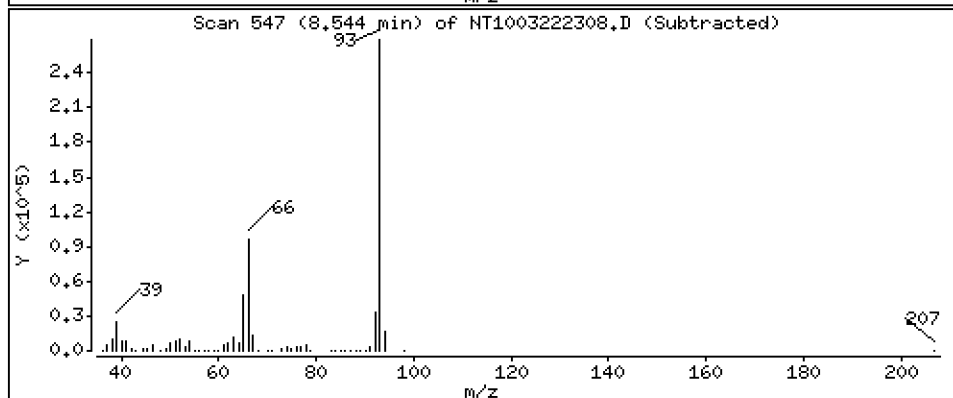
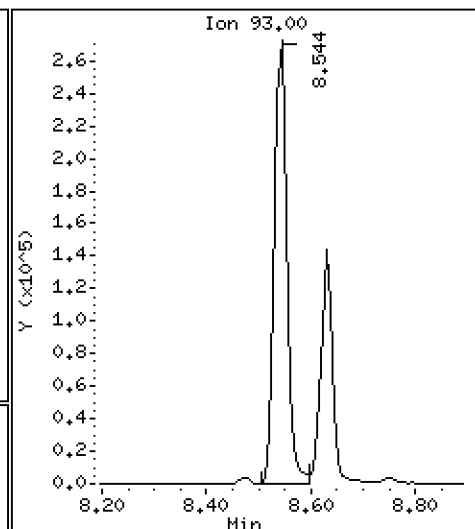
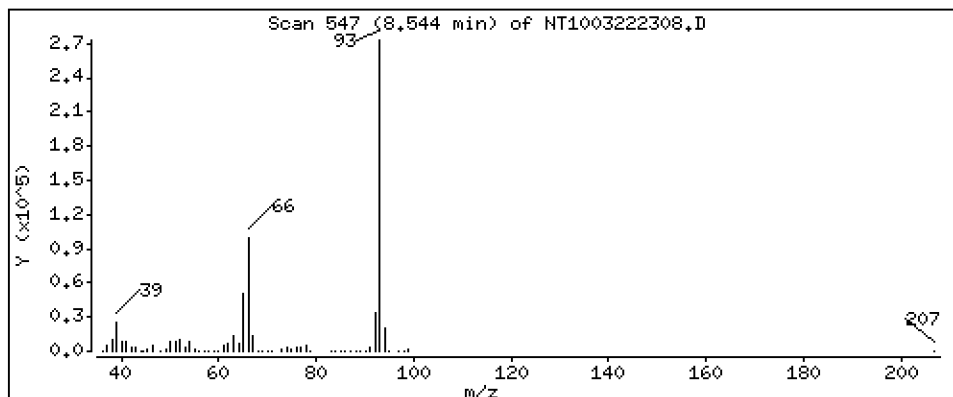
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 6,620 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

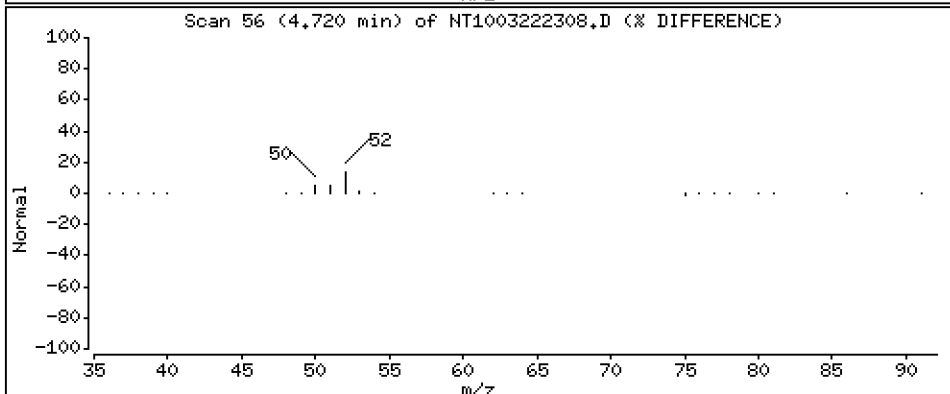
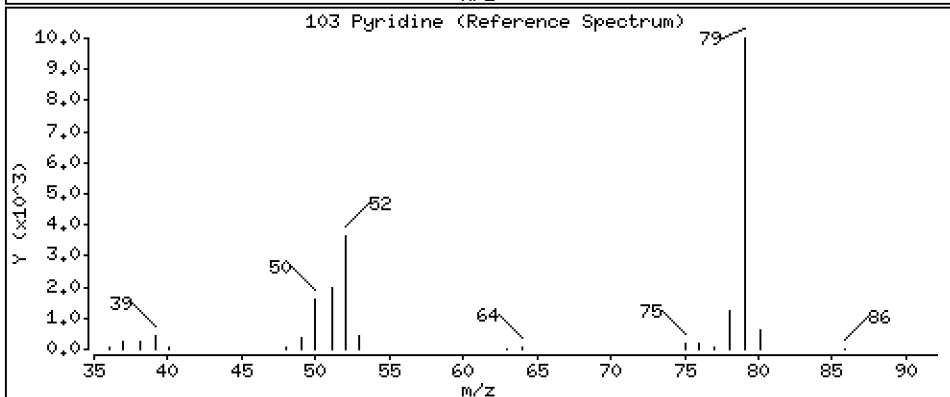
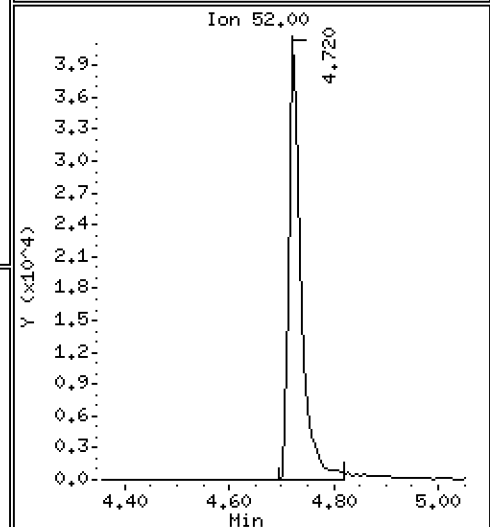
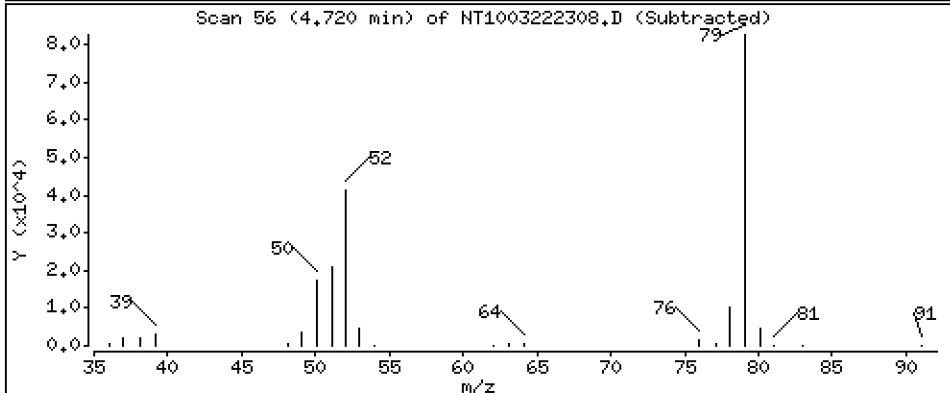
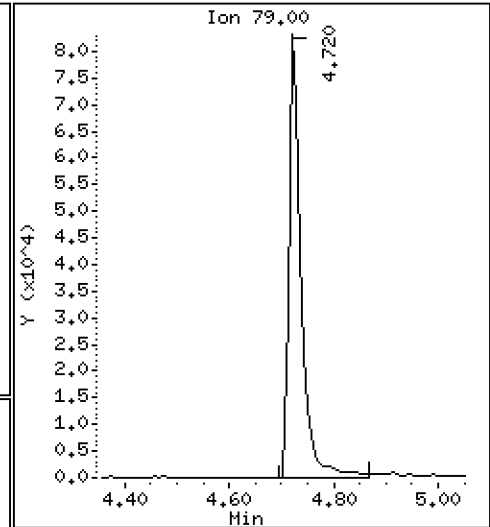
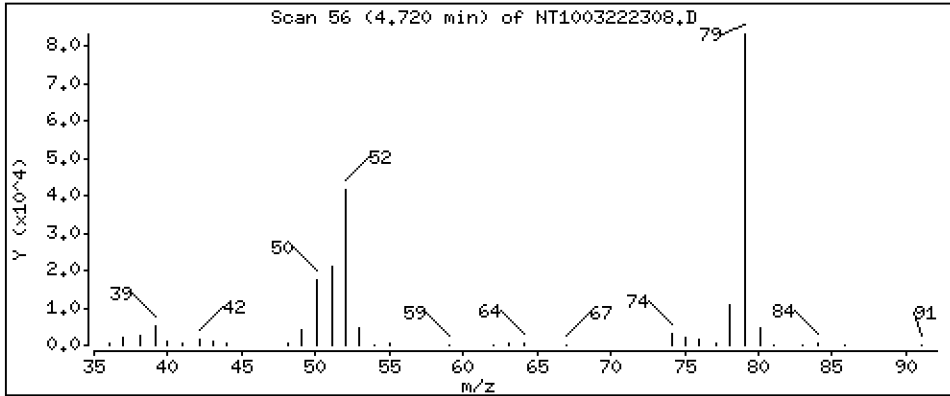
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 2,960 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

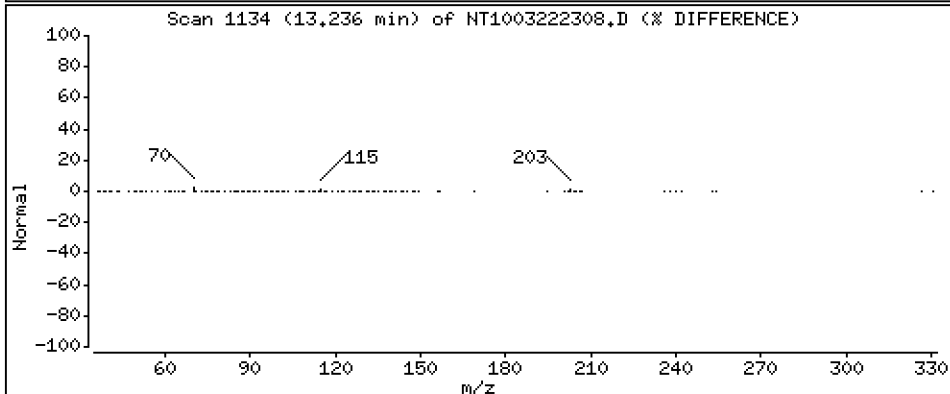
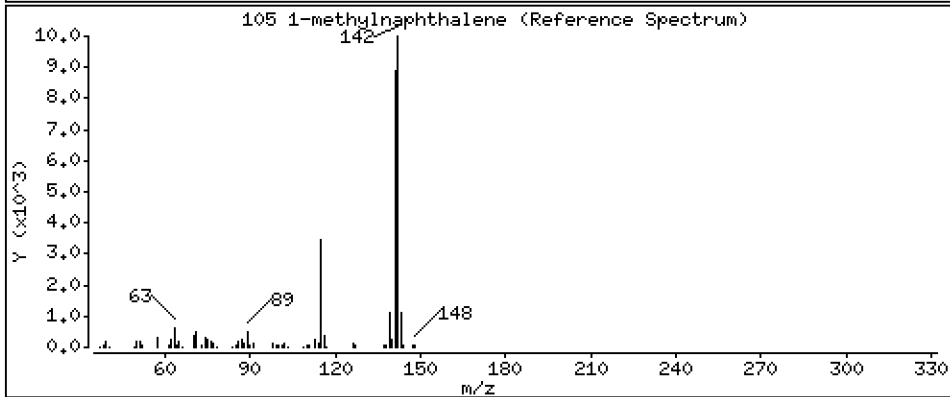
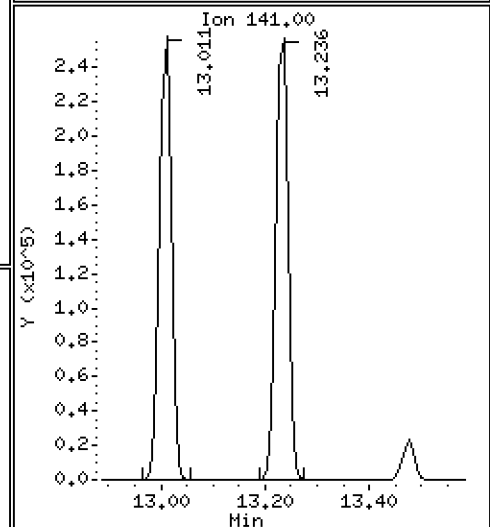
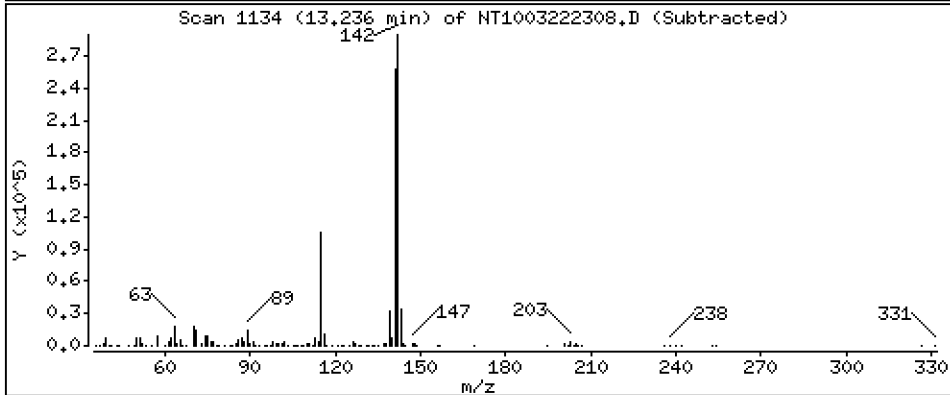
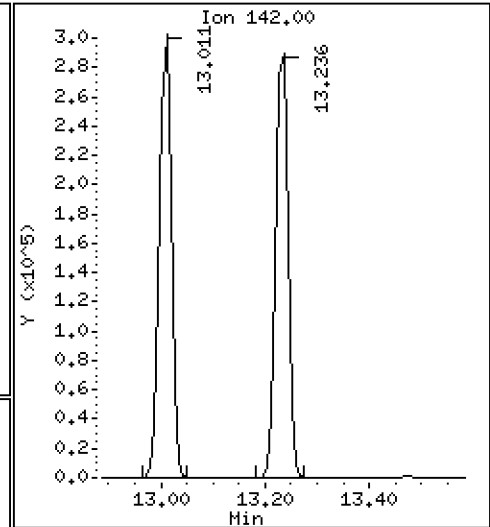
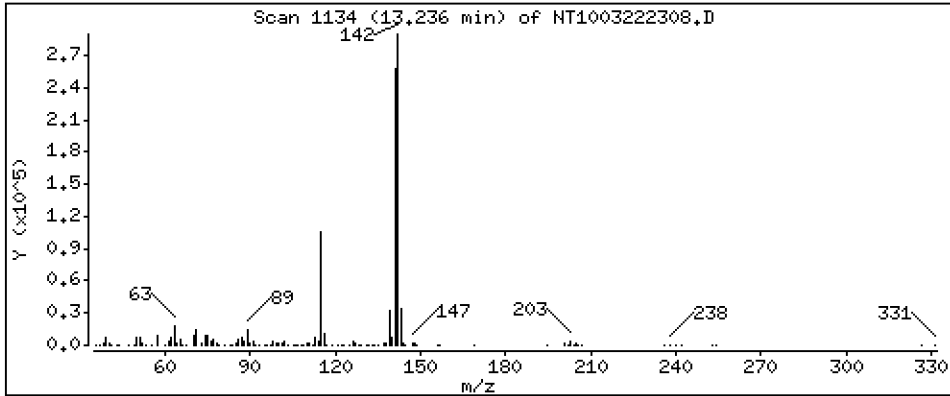
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,635 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

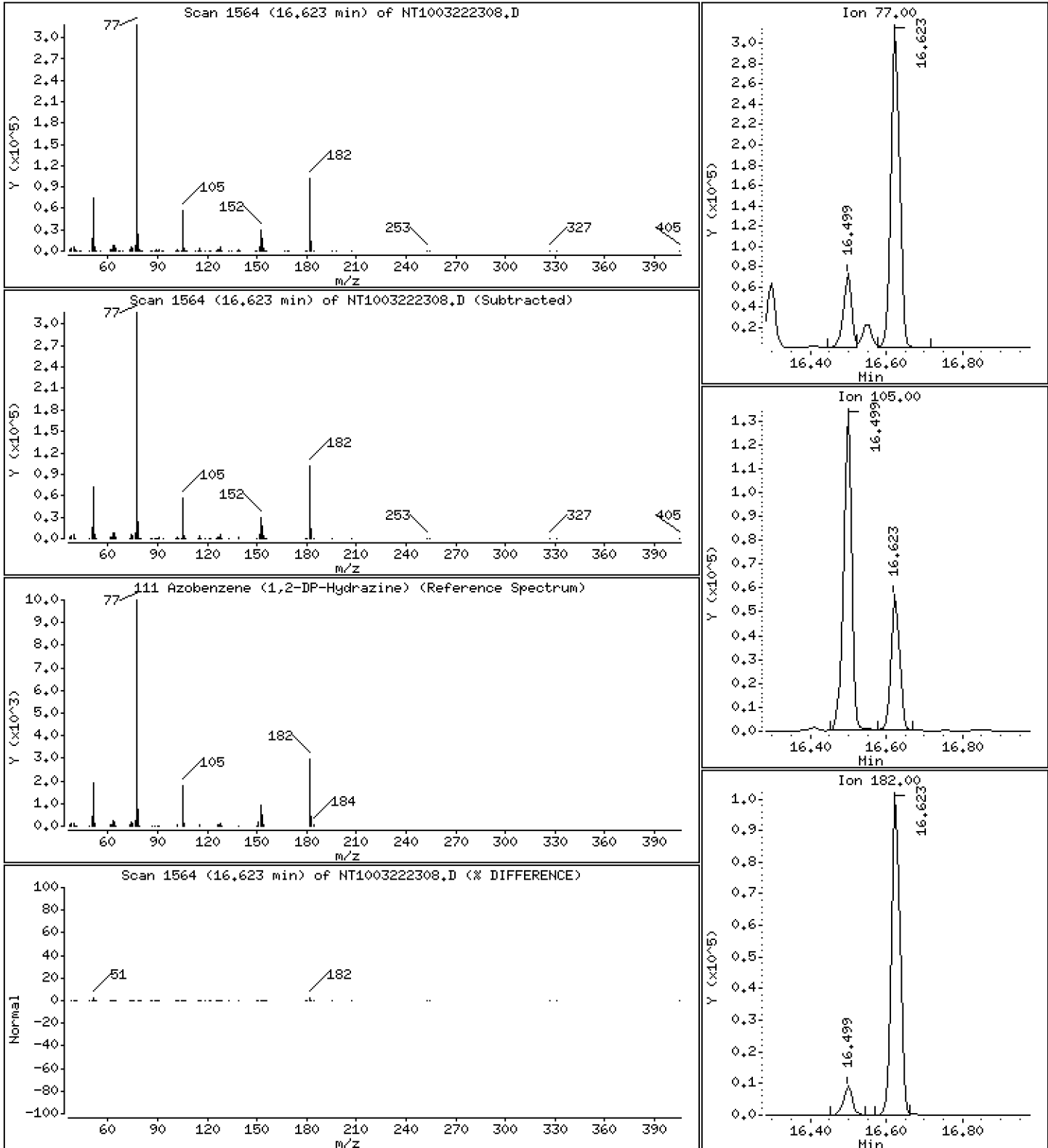
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,295 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

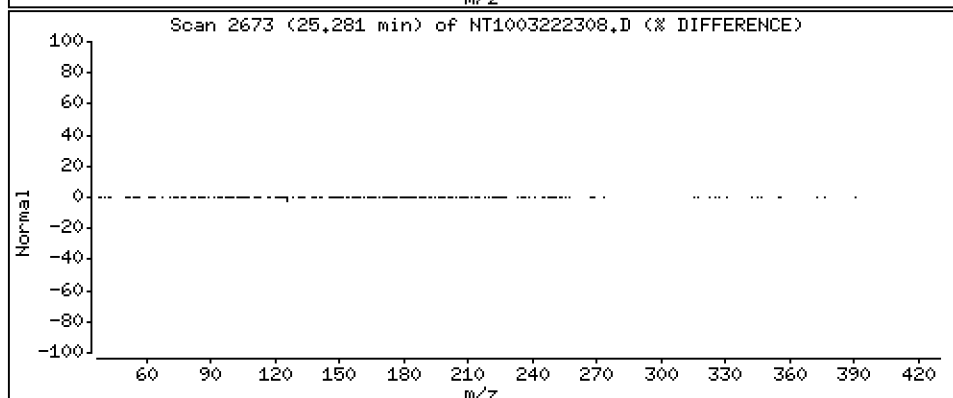
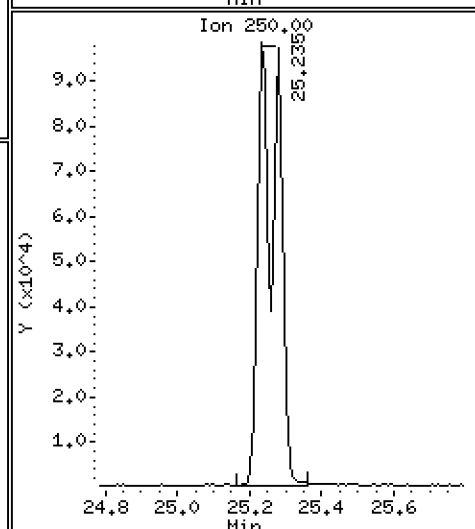
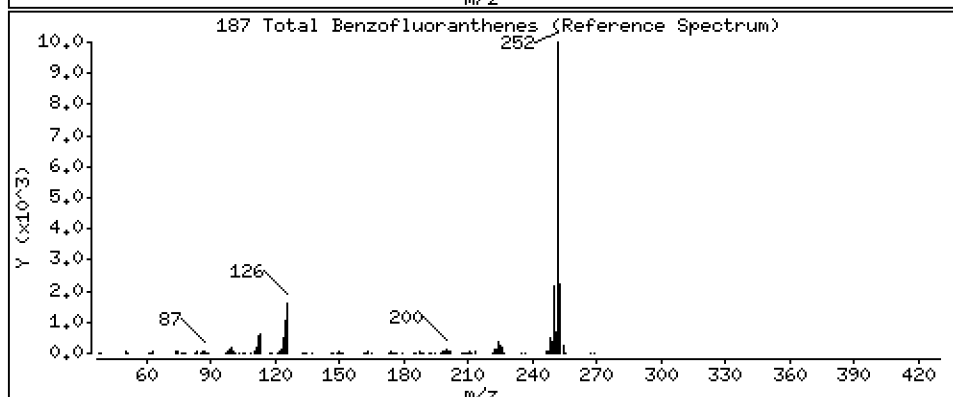
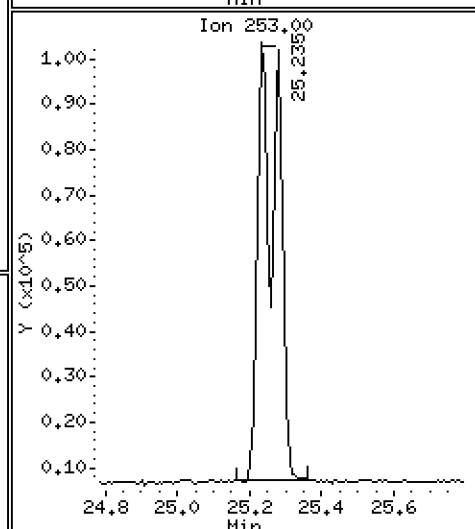
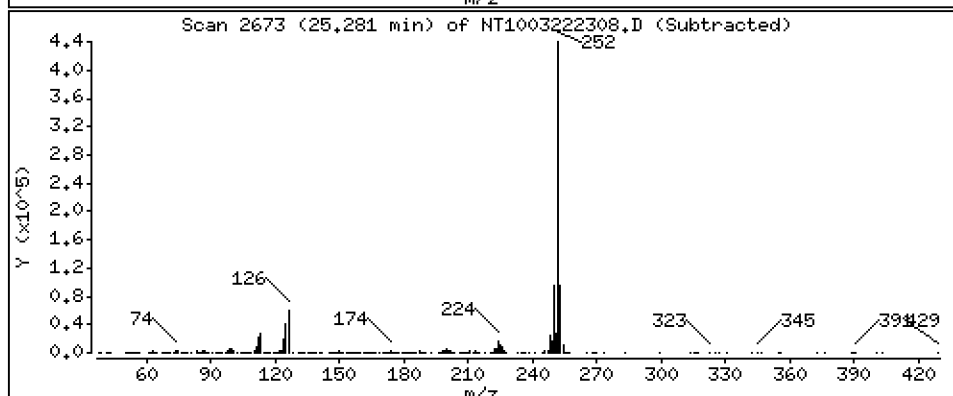
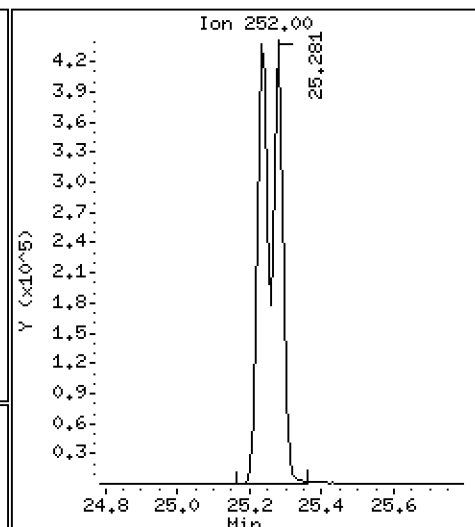
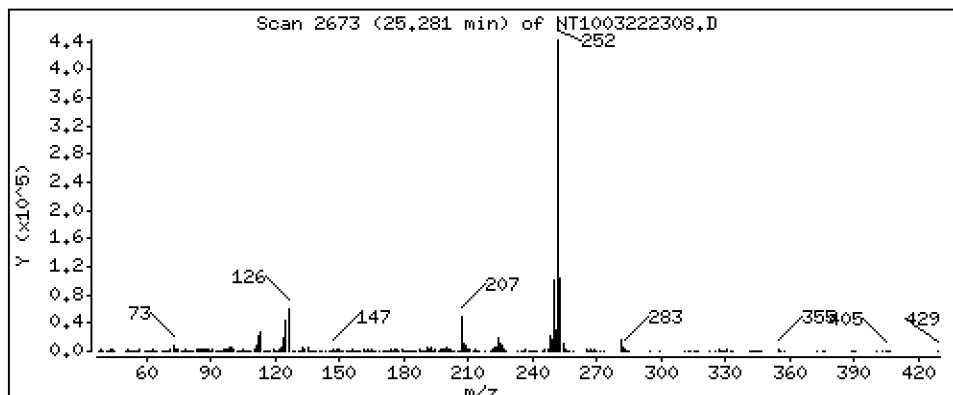
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,637 ug/mL





Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

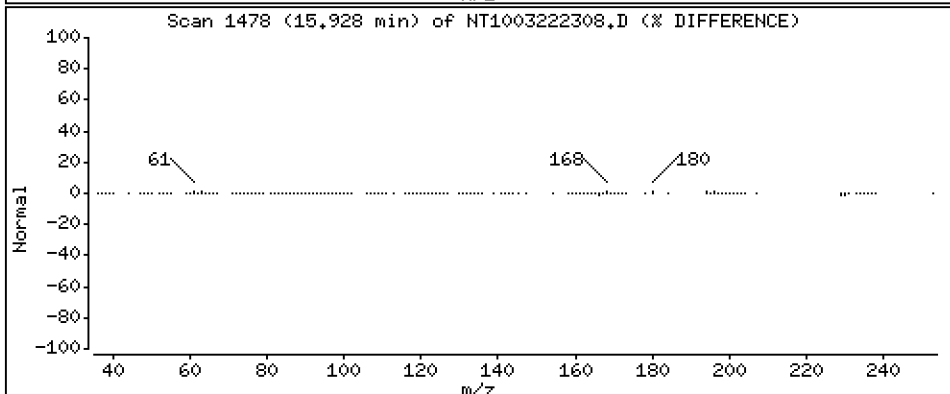
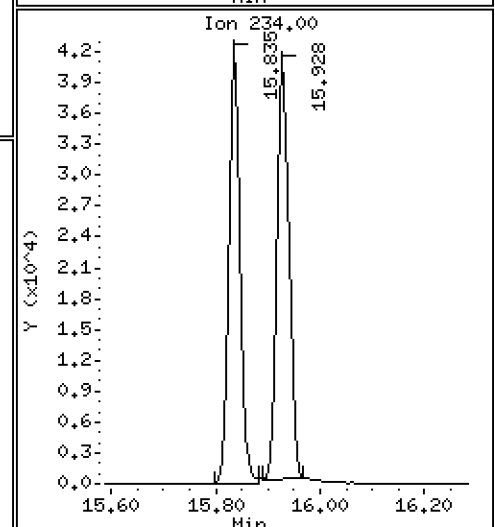
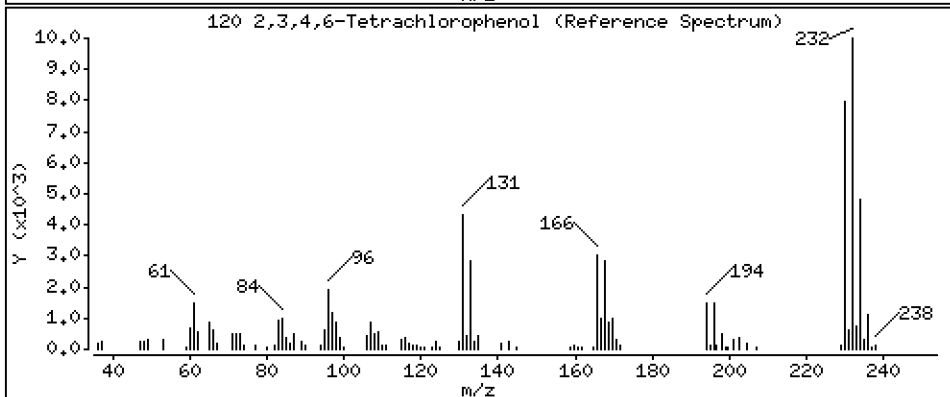
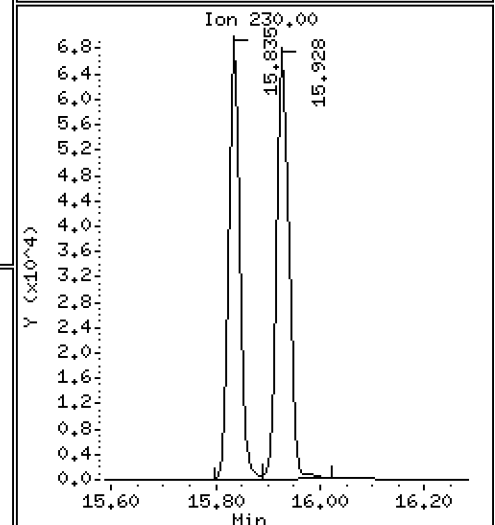
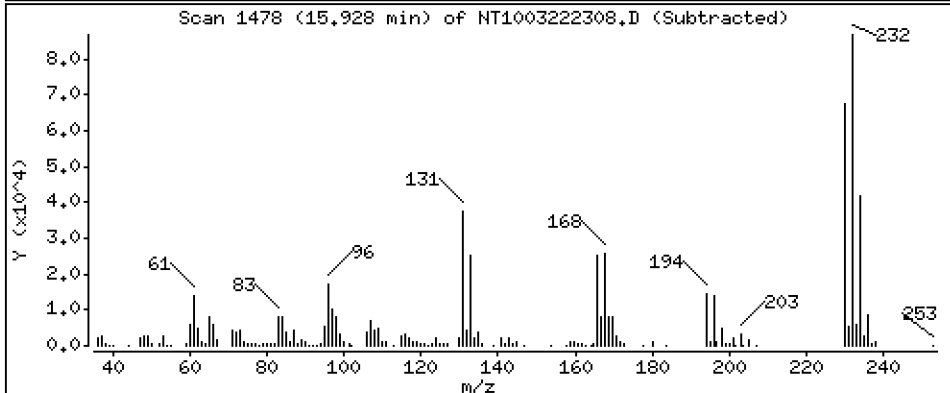
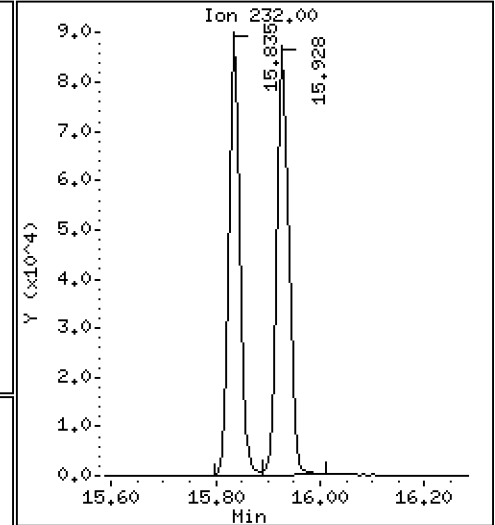
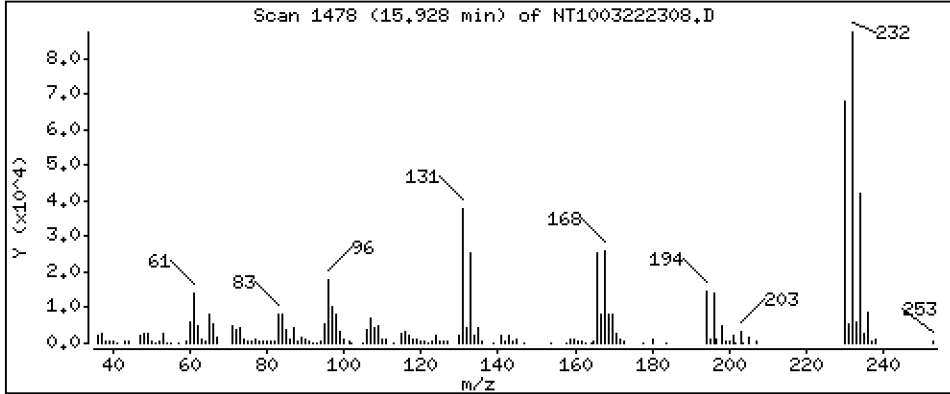
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 4,741 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222308.D  
 Lab Smp Id: BLC0442-BSD1  
 Inj Date : 22-MAR-2023 21:32  
 Operator : VTS  
 Smp Info : BLC0442-BSD1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 07:55 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 8  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |         |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|---------|
|                                 |       |     |        |        |         |          | ON-COLUMN      | FINAL   |
|                                 | MASS  |     |        |        |         |          | (ug/mL)        | (ug/mL) |
| \$ 1 2-Fluorophenol             | 112   |     | 6.859  | 6.851  | (0.755) | 284665   | 6.14004        | 6.140   |
| \$ 2 Phenol-d5                  | 99    |     | 8.450  | 8.450  | (0.930) | 390636   | 6.42280        | 6.423   |
| 3 Phenol                        | 94    |     | 8.474  | 8.473  | (0.933) | 242807   | 3.84178        | 3.842   |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.721  | 8.721  | (0.960) | 348490   | 6.70997        | 6.710   |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.628  | 8.628  | (0.950) | 211160   | 4.50472        | 4.505   |
| 6 2-Chlorophenol                | 128   |     | 8.752  | 8.752  | (0.963) | 217106   | 4.01365        | 4.014   |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.015  | 9.022  | (0.992) | 235611   | 4.12006        | 4.120   |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.084  | 9.084  | (1.000) | 153308   | 4.00000        |         |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.116  | 9.115  | (1.003) | 232821   | 4.21448        | 4.214   |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.441  | 9.449  | (1.039) | 155592   | 4.17158        | 4.172   |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.473  | 9.472  | (1.043) | 230445   | 4.23867        | 4.239   |
| 11 Benzyl alcohol               | 108   |     | 9.356  | 9.356  | (1.030) | 131771   | 4.44197        | 4.442   |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.659  | 9.659  | (1.063) | 77121    | 4.83029        | 4.830   |
| 13 2-Methylphenol               | 108   |     | 9.581  | 9.589  | (1.055) | 166114   | 3.60552        | 3.606   |
| 17 Hexachloroethane             | 117   |     | 10.062 | 10.062 | (1.108) | 94762    | 4.18089        | 4.181   |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.915  | 9.923  | (1.091) | 144260   | 3.96547        | 3.965   |
| 15 4-Methylphenol               | 108   |     | 9.861  | 9.853  | (1.085) | 195829   | 4.03404        | 4.034   |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.179 | 10.187 | (0.880) | 243404   | 4.32509        | 4.325   |
| 19 Nitrobenzene                 | 77    |     | 10.218 | 10.218 | (0.883) | 235872   | 4.27082        | 4.271   |
| 20 Isophorone                   | 82    |     | 10.668 | 10.668 | (0.922) | 423540   | 5.99471        | 5.995   |
| 21 2-Nitrophenol                | 139   |     | 10.841 | 10.850 | (0.937) | 138944   | 5.14547        | 5.145   |
| 22 2,4-Dimethylphenol           | 107   |     | 10.901 | 10.901 | (0.942) | 281440   | 5.54804        | 5.548   |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.096 | 11.096 | (0.959) | 244124   | 5.17276        | 5.173   |
| 24 Benzoic acid                 | 105   |     | 11.138 | 11.104 | (0.963) | 901808   | 29.7438        | 29.74   |
| 25 2,4-Dichlorophenol           | 162   |     | 11.300 | 11.300 | (0.976) | 620017   | 15.2735        | 15.27   |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.487 | 11.487 | (0.993) | 205913   | 4.32123        | 4.321   |
| * 27 Naphthalene-d8             | 136   |     | 11.572 | 11.572 | (1.000) | 557553   | 4.00000        |         |
| 28 Naphthalene                  | 128   |     | 11.611 | 11.611 | (1.003) | 638384   | 4.32205        | 4.322   |
| 29 4-Chloroaniline              | 127   |     | 11.742 | 11.750 | (1.015) | 484920   | 8.41553        | 8.416   |
| 30 Hexachlorobutadiene          | 225   |     | 11.974 | 11.974 | (1.035) | 129921   | 4.65316        | 4.653   |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.709 | 12.709 | (1.098) | 603599   | 13.7352        | 13.74   |
| 32 2-Methylnaphthalene          | 142   |     | 13.011 | 13.011 | (1.124) | 459672   | 4.31244        | 4.312   |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.475 | 13.475 | (0.887) | 294370   | 10.1451        | 10.15   |

| Compounds                         | QUANT | SIG |                        |        |         |         |          | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|------------------------|--------|---------|---------|----------|----------------------|------------------|
|                                   |       |     | MASS                   | RT     | EXP RT  | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     | 13.638                 | 13.637 | (0.898) | 440446  | 14.2137  | 14.21                |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     | 13.707                 | 13.707 | (0.902) | 477865  | 13.8788  | 13.88                |                  |
| § 36 2-Fluorobiphenyl             | 172   |     | 13.792                 | 13.800 | (0.908) | 551866  | 4.44979  | 4.450                |                  |
| 37 2-Chloronaphthalene            | 162   |     | 14.001                 | 14.009 | (0.922) | 440356  | 4.38511  | 4.385                |                  |
| 38 2-Nitroaniline                 | 65    |     | 14.272                 | 14.272 | (0.939) | 359798  | 12.7551  | 12.76                |                  |
| 39 Dimethylphthalate              | 163   |     | 14.706                 | 14.706 | (0.968) | 511272  | 5.01985  | 5.020                |                  |
| 40 Acenaphthylene                 | 152   |     | 14.876                 | 14.884 | (0.979) | 663470  | 4.23998  | 4.240                |                  |
| 41 2,6-Dinitrotoluene             | 165   |     | 14.845                 | 14.845 | (0.977) | 337048  | 15.3190  | 15.32                |                  |
| * 42 Acenaphthene-d10             | 164   |     | 15.193                 | 15.193 | (1.000) | 313522  | 4.00000  |                      |                  |
| 43 3-Nitroaniline                 | 138   |     | 15.131                 | 15.131 | (0.996) | 279859  | 11.2693  | 11.27                |                  |
| 44 Acenaphthene                   | 153   |     | 15.263                 | 15.263 | (1.005) | 424384  | 4.39002  | 4.390                |                  |
| 45 2,4-Dinitrophenol              | 184   |     | 15.340                 | 15.340 | (1.010) | 423456  | 29.9411  | 29.94                |                  |
| 46 Dibenzofuran                   | 168   |     | 15.587                 | 15.595 | (1.026) | 639540  | 4.48627  | 4.486                |                  |
| 47 4-Nitrophenol                  | 109   |     | 15.456                 | 15.456 | (1.017) | 196129  | 12.6565  | 12.66                |                  |
| 48 2,4-Dinitrotoluene             | 165   |     | 15.657                 | 15.657 | (1.031) | 457377  | 14.0599  | 14.06                |                  |
| 50 Diethylphthalate               | 149   |     | 16.175                 | 16.175 | (1.065) | 623693  | 6.24127  | 6.241                |                  |
| 49 Fluorene                       | 166   |     | 16.306                 | 16.306 | (1.073) | 513324  | 4.57703  | 4.577                |                  |
| 51 4-Chlorophenyl-phenylether     | 204   |     | 16.298                 | 16.298 | (1.073) | 257913  | 4.83601  | 4.836                |                  |
| 52 4-Nitroaniline                 | 138   |     | 16.406                 | 16.406 | (1.080) | 279770  | 12.5010  | 12.50                |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     | 16.499                 | 16.499 | (0.904) | 551684  | 30.5240  | 30.52                |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     | 16.553                 | 16.553 | (0.907) | 327726  | 4.23957  | 4.240                |                  |
| § 55 2,4,6-Tribromophenol         | 330   |     | 16.846                 | 16.846 | (1.109) | 130793  | 8.97214  | 8.972                |                  |
| 56 4-Bromophenyl-phenylether      | 248   |     | 17.309                 | 17.308 | (0.948) | 169591  | 5.24423  | 5.244                |                  |
| 57 Hexachlorobenzene              | 284   |     | 17.626                 | 17.626 | (0.966) | 168191  | 4.96062  | 4.961                |                  |
| 58 Pentachlorophenol              | 266   |     | 17.982                 | 17.990 | (0.985) | 319304  | 15.4425  | 15.44                |                  |
| * 59 Phenanthrene-d10             | 188   |     | 18.253                 | 18.253 | (1.000) | 578188  | 4.00000  |                      |                  |
| 60 Phenanthrene                   | 178   |     | 18.299                 | 18.299 | (1.003) | 715098  | 4.53572  | 4.536                |                  |
| 61 Anthracene                     | 178   |     | 18.392                 | 18.392 | (1.008) | 620876  | 4.10534  | 4.105                |                  |
| 62 Carbazole                      | 167   |     | 18.725                 | 18.725 | (1.026) | 605266  | 4.46620  | 4.466                |                  |
| 63 Di-n-butylphthalate            | 149   |     | 19.537                 | 19.545 | (1.070) | 948765  | 5.23586  | 5.236                |                  |
| 64 Fluoranthene                   | 202   |     | 20.698                 | 20.705 | (0.887) | 871468  | 4.26806  | 4.268                |                  |
| 65 Pyrene                         | 202   |     | 21.131                 | 21.131 | (0.905) | 874703  | 4.17606  | 4.176                |                  |
| § 66 Terphenyl-d14                | 244   |     | 21.425                 | 21.425 | (0.918) | 732134  | 4.65445  | 4.654                |                  |
| 67 Butylbenzylphthalate           | 149   |     | 22.362                 | 22.369 | (0.958) | 382166  | 5.03384  | 5.034                |                  |
| 68 Benzo(a)anthracene             | 228   |     | 23.314                 | 23.314 | (0.999) | 811856  | 4.52636  | 4.526                |                  |
| * 69 Chrysene-d12                 | 240   |     | 23.345                 | 23.345 | (1.000) | 508151  | 4.00000  |                      |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     | 23.276                 | 23.275 | (0.997) | 546037  | 9.50424  | 9.504                |                  |
| 71 Chrysene                       | 228   |     | 23.384                 | 23.392 | (1.002) | 766733  | 4.37550  | 4.376                |                  |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 23.407                 | 23.407 | (0.959) | 576527  | 4.72388  | 4.724                |                  |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 24.414                 | 24.413 | (1.000) | 831957  | 4.00000  |                      |                  |
| 73 Di-n-octylphthalate            | 149   |     | 24.421                 | 24.429 | (1.000) | 1035297 | 4.75523  | 4.755                |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 25.234                 | 25.242 | (0.970) | 873065  | 4.82278  | 4.823                |                  |
| 75 Benzo(k)fluoranthene           | 252   |     | 25.281                 | 25.288 | (0.971) | 891526  | 4.84997  | 4.850                |                  |
| 76 Benzo(a)pyrene                 | 252   |     | 25.908                 | 25.908 | (0.996) | 736478  | 4.55036  | 4.550                |                  |
| * 77 Perylene-d12                 | 264   |     | 26.024                 | 26.024 | (1.000) | 558473  | 4.00000  |                      |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 28.769                 | 28.769 | (1.105) | 948767  | 4.60762  | 4.608                |                  |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 28.785                 | 28.800 | (1.106) | 799100  | 4.67437  | 4.674                |                  |
| 80 Benzo(g,h,i)perylene           | 276   |     | 29.577                 | 29.577 | (1.137) | 797043  | 4.47273  | 4.473                |                  |
| 90 N-Nitrosodimethylamine         | 74    |     | 4.681                  | 4.673  | (0.515) | 248337  | 8.39599  | 8.396                |                  |
| 91 Aniline                        | 93    |     | 8.543                  | 8.543  | (0.940) | 428699  | 6.61984  | 6.620                |                  |
| 93 Benzidine                      | 184   |     | Compound Not Detected. |        |         |         |          |                      |                  |
| 103 Pyridine                      | 79    |     | 4.719                  | 4.704  | (0.520) | 134464  | 2.96008  | 2.960                |                  |
| 105 1-methylnaphthalene           | 142   |     | 13.235                 | 13.235 | (1.144) | 452632  | 4.63474  | 4.635                |                  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     | 16.622                 | 16.630 | (1.094) | 479406  | 4.29465  | 4.295                |                  |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 25.281 | 25.288 | (0.971) | 1684370  | 9.63663              | 9.637            |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 15.927 | 15.935 | (1.048) | 154253   | 4.74086              | 4.741            |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 22-MAR-2023  
 Lab File ID: NT1003222308.D Calibration Time: 17:42  
 Lab Smp Id: BLC0442-BSD1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 122478   | 61239      | 244956  | 153308 | 25.17 |
| 27 Naphthalene-d8     | 459261   | 229631     | 918522  | 557553 | 21.40 |
| 42 Acenaphthene-d10   | 264106   | 132053     | 528212  | 313522 | 18.71 |
| 59 Phenanthrene-d10   | 503255   | 251628     | 1006510 | 578188 | 14.89 |
| 69 Chrysene-d12       | 437735   | 218868     | 875470  | 508151 | 16.09 |
| 134 Di-n-octylphthala | 700191   | 350096     | 1400382 | 831957 | 18.82 |
| 77 Perylene-d12       | 499049   | 249525     | 998098  | 558473 | 11.91 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.08     | 8.58     | 9.58  | 9.08   | 0.00  |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.57  | 0.00  |
| 42 Acenaphthene-d10   | 15.19    | 14.69    | 15.69 | 15.19  | 0.00  |
| 59 Phenanthrene-d10   | 18.25    | 17.75    | 18.75 | 18.25  | 0.00  |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.35  | 0.00  |
| 134 Di-n-octylphthala | 24.41    | 23.91    | 24.91 | 24.41  | 0.00  |
| 77 Perylene-d12       | 26.02    | 25.52    | 26.52 | 26.02  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222308.D

Lab ID: BLC0442-BSD1  
nt10.i, 20230322.b\ABN.m, 22-MAR-2023 21:32

RT CO-ELUTION COMPOUNDS

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NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

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NONE

RRT check based on Ccal File: NT1003222302.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*



**MS / MS DUPLICATE RECOVERY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC                      SDG: 23A0179  
 Client: Anchor OEA, LLC    Project: AOC5 MR Phase 1  
 Matrix: Solid    Analyzed: 03/02/23 09:29  
 Batch: BLA0557    Laboratory ID: BLA0557-MS1  
 Preparation: EPA 3546 (Microwave)                      Sequence Name: Matrix Spike  
 Initial/Final: 13.41 g / 1 mL                                      Source Sample: LDW23-SS1200

| COMPOUND                    | SPIKE ADDED (ug/kg dry) | SAMPLE CONCENTRATION (ug/kg dry) | Q | MS CONCENTRATION (ug/kg dry) | Q          | MS % REC. # | QC LIMITS REC. |
|-----------------------------|-------------------------|----------------------------------|---|------------------------------|------------|-------------|----------------|
| Phenol                      | 500                     | 33.4                             | B | 490                          | D, B       | 98.0        | 34 - 120       |
| 4-Methylphenol              | 500                     | ND                               | U | 341                          | D          | 68.1        | 29 - 120       |
| Naphthalene                 | 500                     | 8.3                              | J | 459                          | D          | 91.8        | 43 - 120       |
| 2-Methylnaphthalene         | 500                     | 6.9                              | J | 423                          | D          | 84.7        | 43 - 120       |
| Acenaphthylene              | 500                     | ND                               | U | 502                          | D          | 100         | 42 - 120       |
| Dimethylphthalate           | 500                     | ND                               | U | 608                          | *, D       | 122 *       | 43 - 120       |
| Acenaphthene                | 500                     | 5.9                              | J | 507                          | D          | 101         | 45 - 120       |
| Dibenzofuran                | 500                     | ND                               | U | 488                          | D          | 97.5        | 43 - 120       |
| Fluorene                    | 500                     | ND                               | U | 542                          | D          | 108         | 45 - 120       |
| Phenanthrene                | 500                     | 24.5                             |   | 570                          | D          | 114         | 49 - 120       |
| Anthracene                  | 500                     | 11.0                             | J | 475                          | D          | 95.0        | 45 - 120       |
| Fluoranthene                | 500                     | 49.8                             |   | 583                          | D          | 117         | 53 - 145       |
| Pyrene                      | 500                     | 82.4                             |   | 603                          | D          | 104         | 52 - 134       |
| Butylbenzylphthalate        | 500                     | ND                               | U | 635                          | D          | 127         | 45 - 132       |
| Benzo(a)anthracene          | 500                     | 29.4                             |   | 600                          | D          | 120         | 49 - 120       |
| Chrysene                    | 500                     | 27.7                             |   | 588                          | D          | 118         | 47 - 120       |
| bis(2-Ethylhexyl)phthalate  | 500                     | 13.7                             | J | 551                          | D          | 110         | 34 - 130       |
| Benzo(a)fluoranthene, Total | 1000                    | 70.7                             |   | 1480                         | D          | 148         | 30 - 160       |
| Benzo(a)pyrene              | 500                     | 28.8                             |   | 557                          | D          | 111         | 42 - 120       |
| Indeno(1,2,3-cd)pyrene      | 500                     | ND                               | U | 231                          | Q, D       | 46.2        | 42 - 163       |
| Dibenzo(a,h)anthracene      | 500                     | ND                               | U | 257                          | Q, D       | 51.4        | 30 - 133       |
| Benzo(g,h,i)perylene        | 500                     | ND                               | U | 167                          | *, Q, I, D | 33.4 *      | 46 - 148       |

\* Values outside of QC limits



**MS / MS DUPLICATE RECOVERY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Analyzed: 03/02/23 10:05

Batch: BLA0557

Laboratory ID: BLA0557-MSD1

Preparation: EPA 3546 (Microwave)

Sequence Name: Matrix Spike Dup

Initial/Final: 13.41 g / 1 mL

Source Sample: LDW23-SS1200

| COMPOUND                    | SPIKE ADDED (ug/kg dry) | MSD CONCENTRATION (ug/kg dry) | Q        | MSD % REC. # | % RPD # | QC LIMITS |          |
|-----------------------------|-------------------------|-------------------------------|----------|--------------|---------|-----------|----------|
|                             |                         |                               |          |              |         | RPD       | REC.     |
| Phenol                      | 500                     | 439                           | D, B     | 87.8         | 11.0    | 30        | 34 - 120 |
| 4-Methylphenol              | 500                     | 361                           | D        | 72.2         | 5.75    | 30        | 29 - 120 |
| Naphthalene                 | 500                     | 464                           | D        | 92.9         | 1.21    | 30        | 43 - 120 |
| 2-Methylnaphthalene         | 500                     | 444                           | D        | 88.9         | 4.89    | 30        | 43 - 120 |
| Acenaphthylene              | 500                     | 501                           | D        | 100          | 0.361   | 30        | 42 - 120 |
| Dimethylphthalate           | 500                     | 590                           | D        | 118          | 2.98    | 30        | 43 - 120 |
| Acenaphthene                | 500                     | 490                           | D        | 98.0         | 3.35    | 30        | 45 - 120 |
| Dibenzofuran                | 500                     | 480                           | D        | 96.0         | 1.54    | 30        | 43 - 120 |
| Fluorene                    | 500                     | 529                           | D        | 106          | 2.52    | 30        | 45 - 120 |
| Phenanthrene                | 500                     | 538                           | D        | 108          | 5.89    | 30        | 49 - 120 |
| Anthracene                  | 500                     | 462                           | D        | 92.3         | 2.84    | 30        | 45 - 120 |
| Fluoranthene                | 500                     | 573                           | D        | 115          | 1.73    | 30        | 53 - 145 |
| Pyrene                      | 500                     | 574                           | D        | 98.3         | 5.00    | 30        | 52 - 134 |
| Butylbenzylphthalate        | 500                     | 608                           | D        | 122          | 4.41    | 30        | 45 - 132 |
| Benzo(a)anthracene          | 500                     | 575                           | D        | 115          | 4.38    | 30        | 49 - 120 |
| Chrysene                    | 500                     | 549                           | D        | 110          | 6.84    | 30        | 47 - 120 |
| bis(2-Ethylhexyl)phthalate  | 500                     | 525                           | D        | 105          | 4.84    | 30        | 34 - 130 |
| Benzo(a)fluoranthene, Total | 1000                    | 1390                          | D        | 139          | 6.28    | 30        | 30 - 160 |
| Benzo(a)pyrene              | 500                     | 536                           | D        | 107          | 3.85    | 30        | 42 - 120 |
| Indeno(1,2,3-cd)pyrene      | 500                     | 225                           | Q, D     | 45.0         | 2.56    | 30        | 42 - 163 |
| Dibenzo(a,h)anthracene      | 500                     | 255                           | Q, D     | 50.9         | 0.919   | 30        | 30 - 133 |
| Benzo(g,h,i)perylene        | 500                     | 174                           | *Q, J, D | 34.7         | *       | 30        | 46 - 148 |

\* Values outside of QC limits



Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022854.D

Date: 02-MAR-2023 09:29

Client ID:

Sample Info: BLR0557-HSI,10

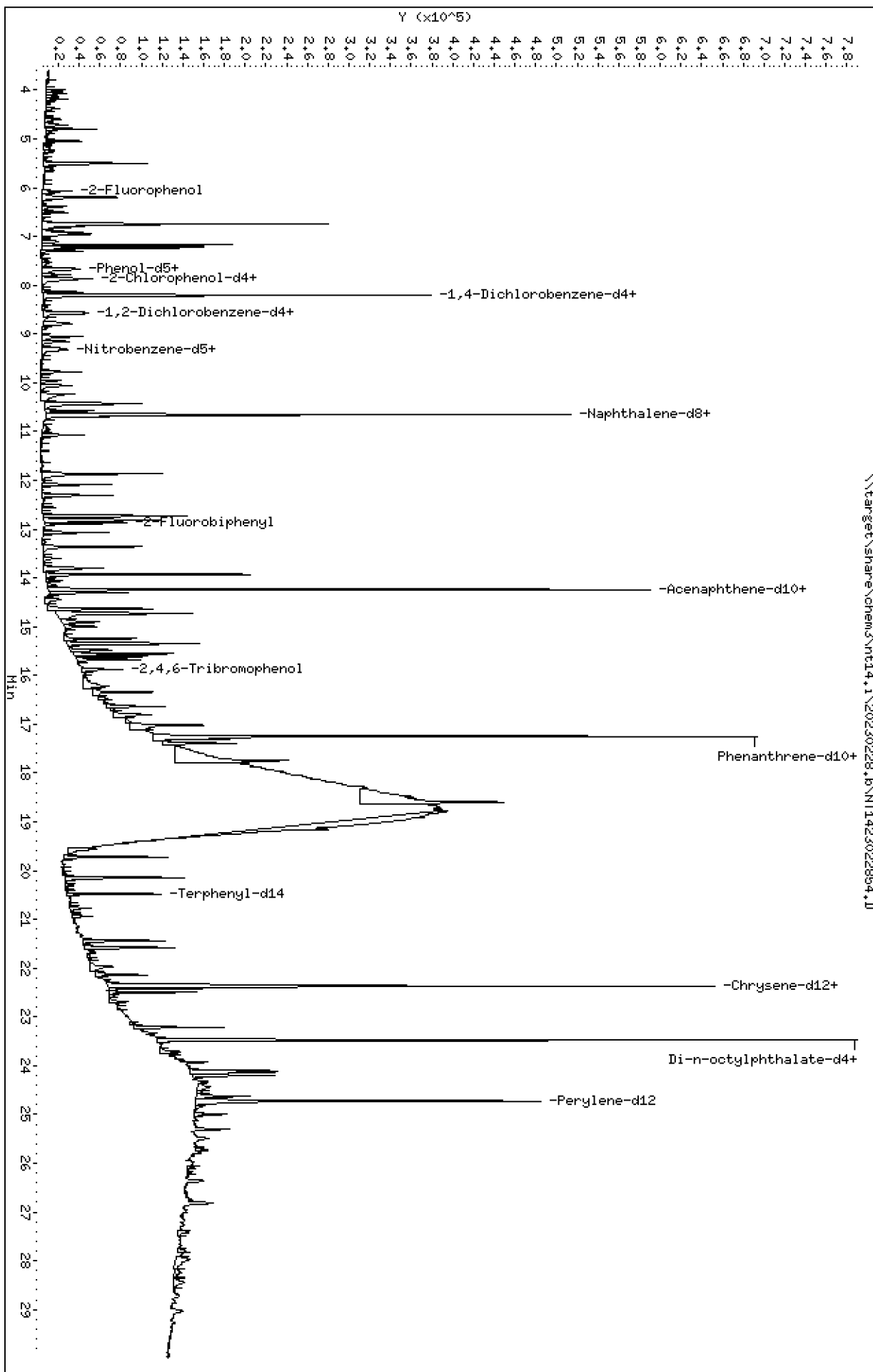
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

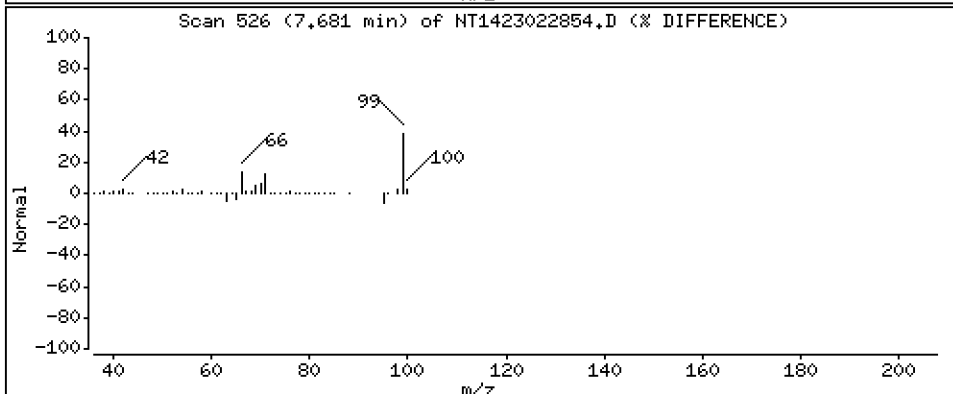
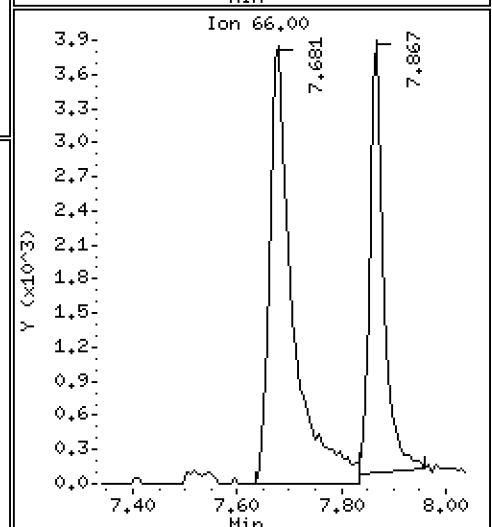
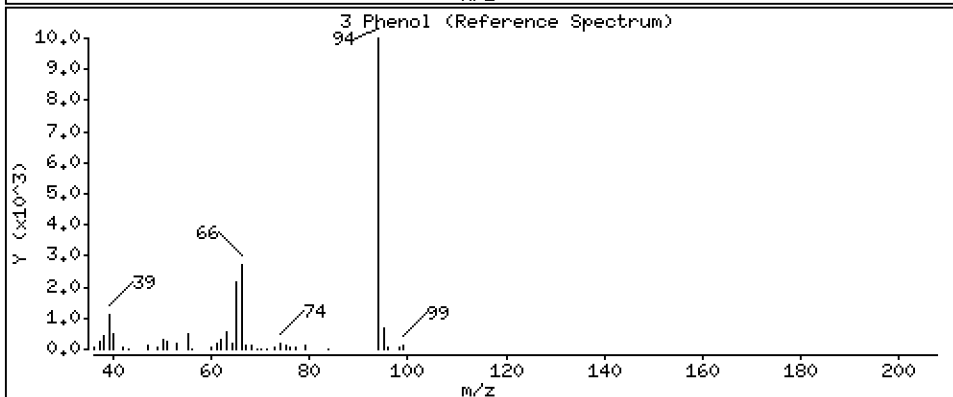
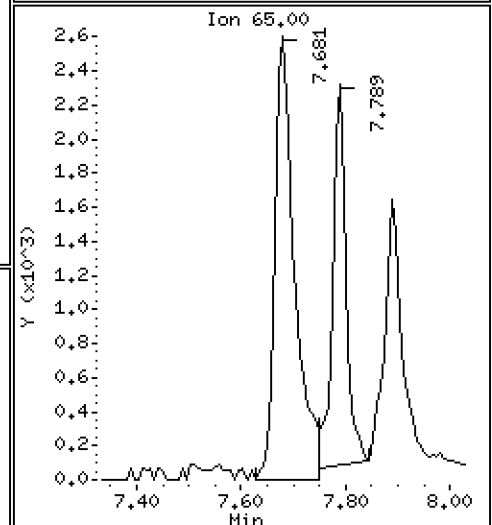
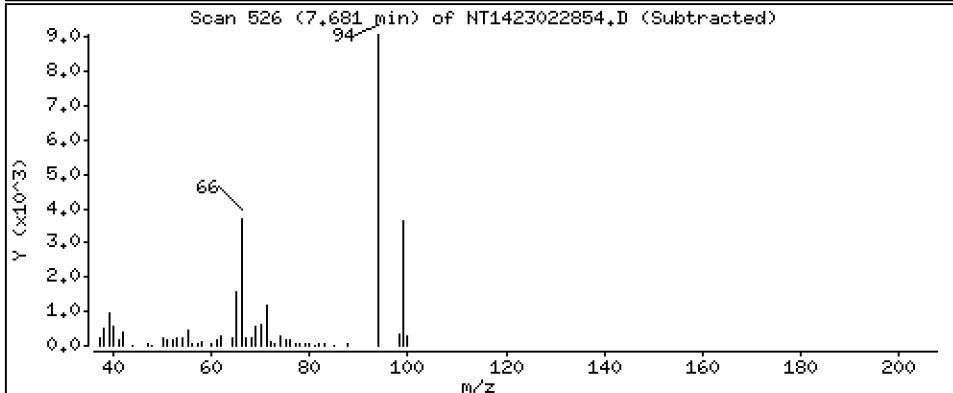
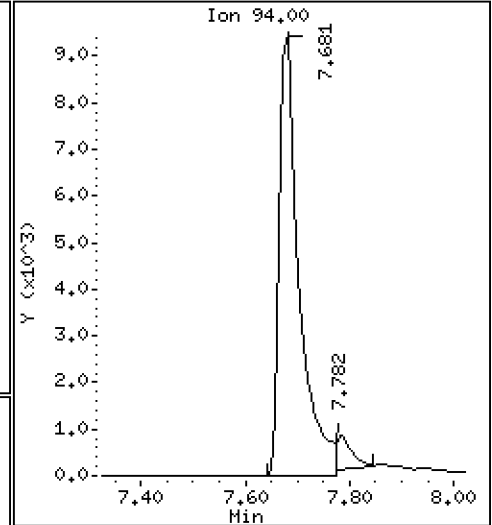
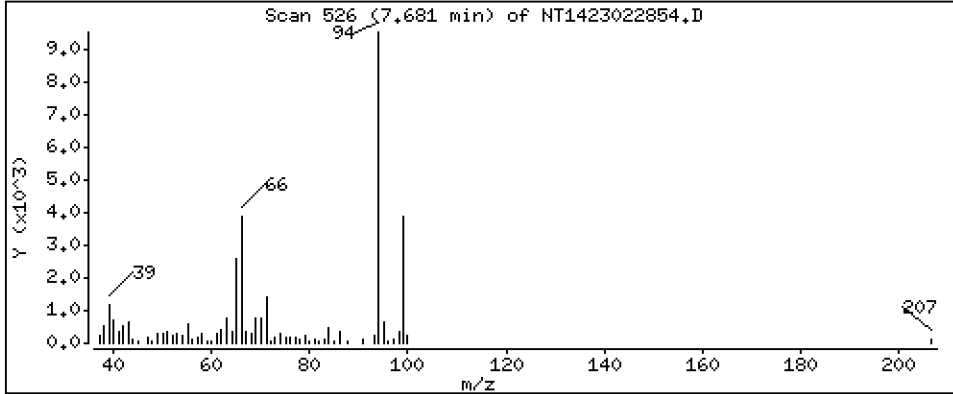
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 4,900 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

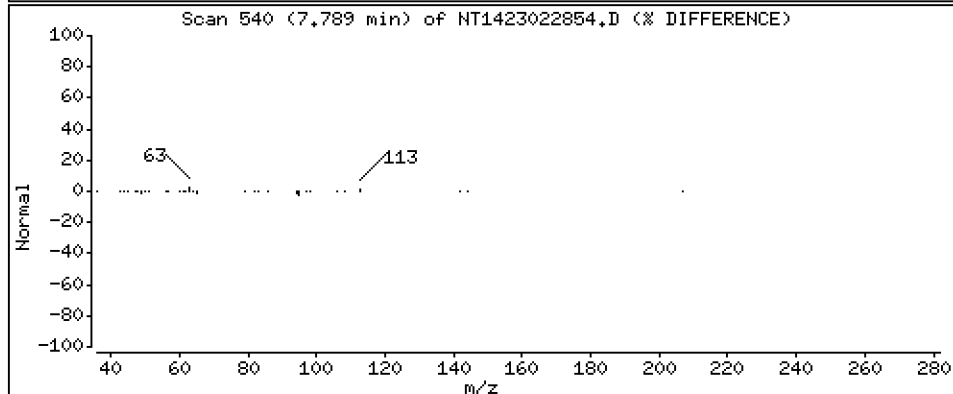
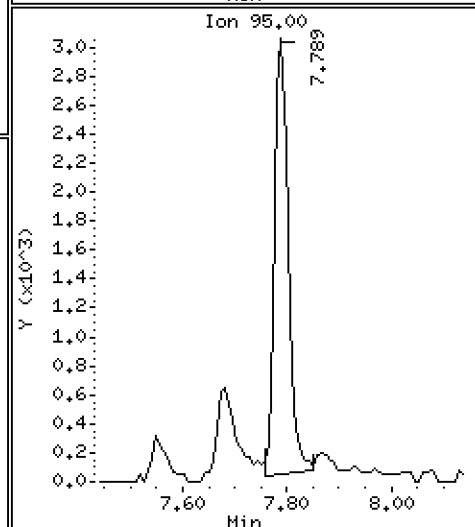
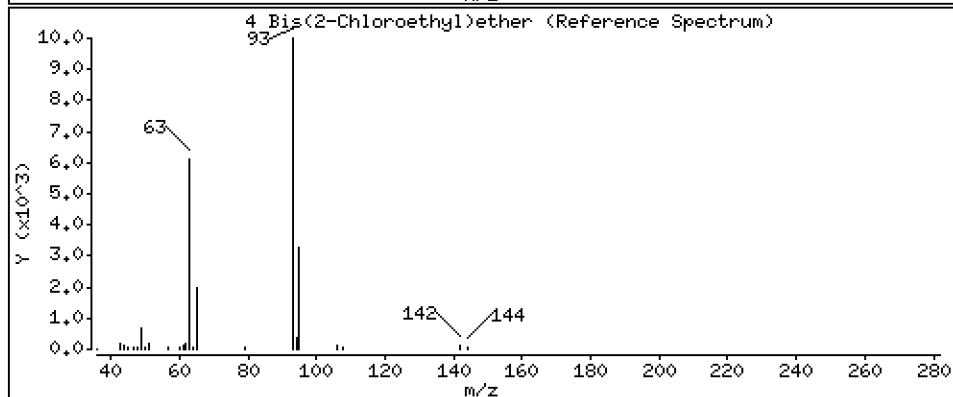
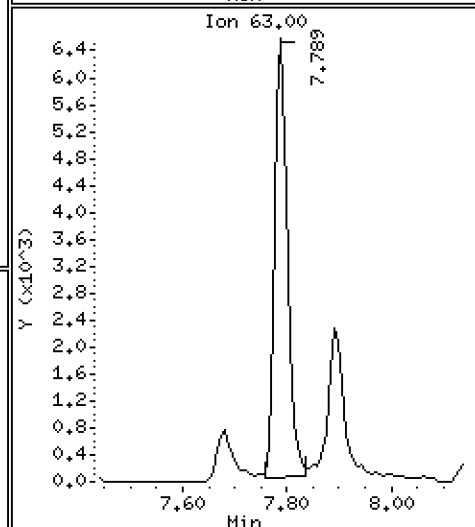
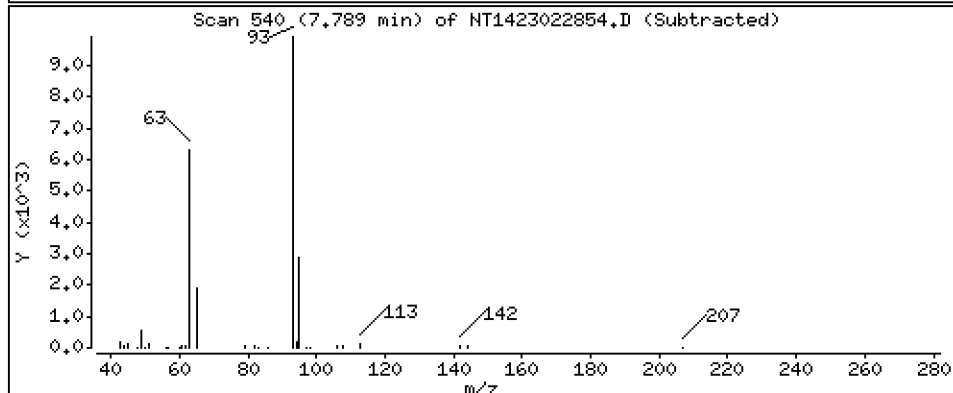
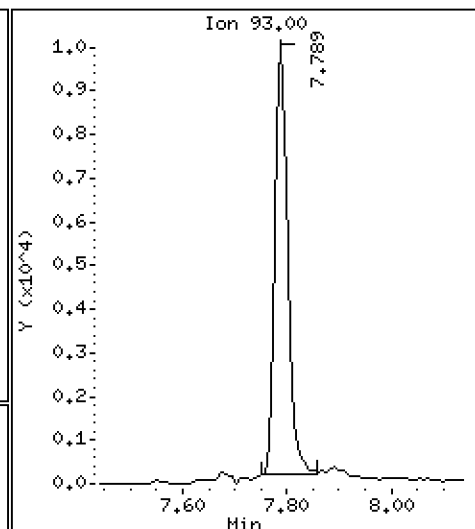
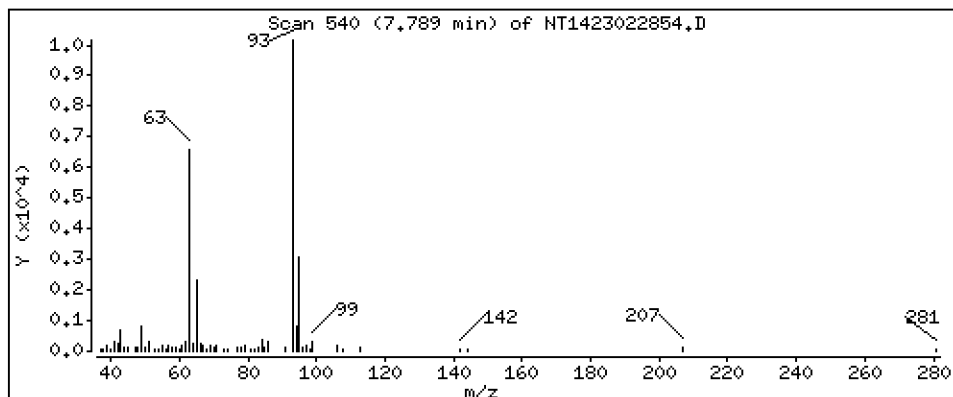
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,515 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

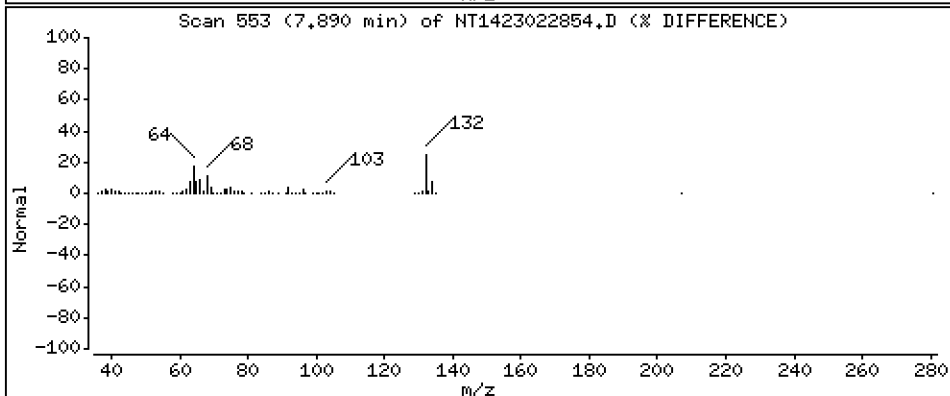
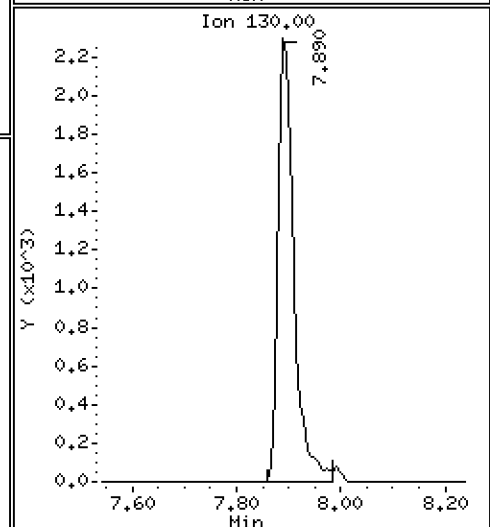
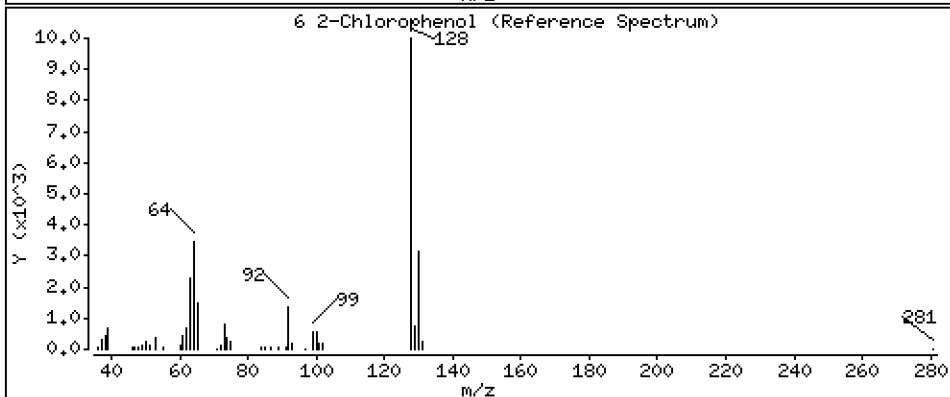
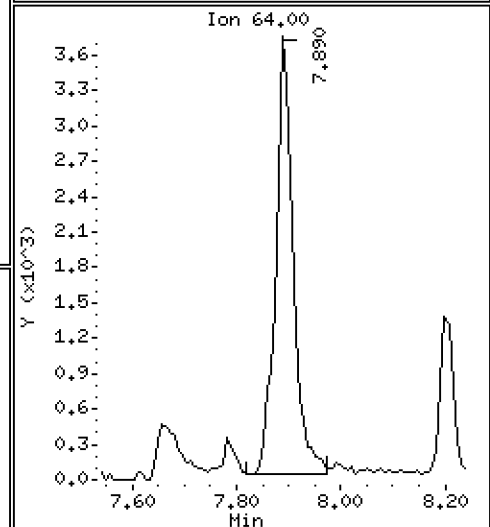
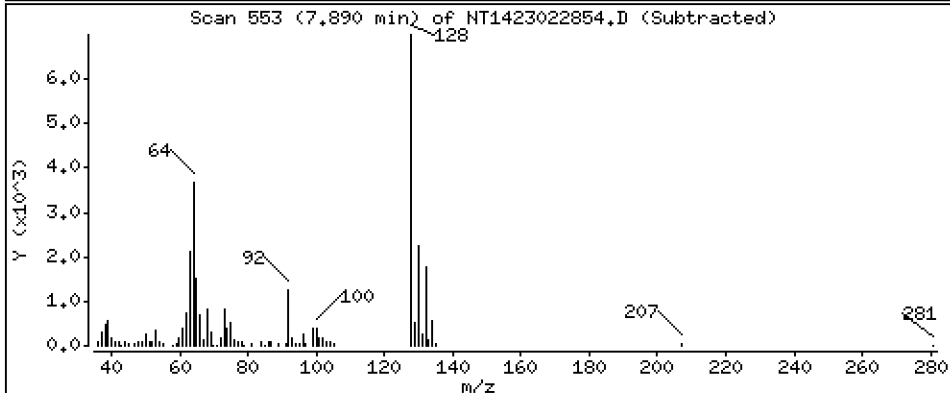
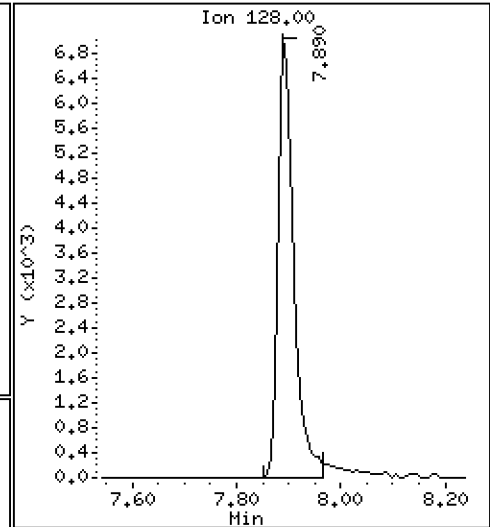
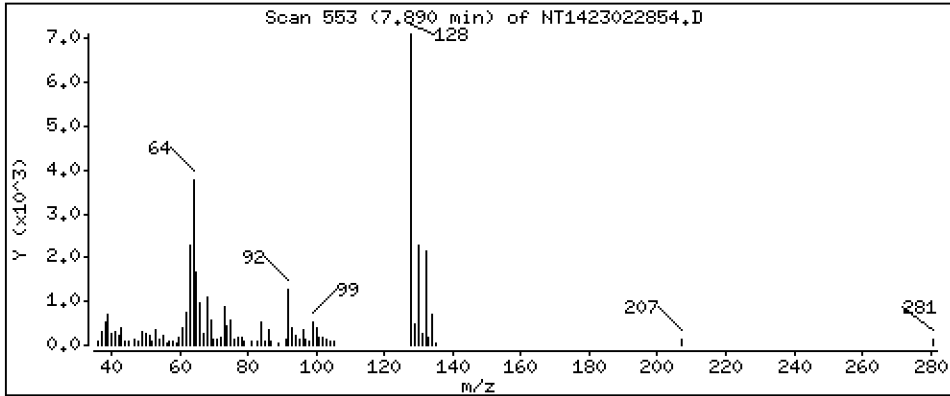
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

6 2-Chlorophenol

Concentration: 3.905 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

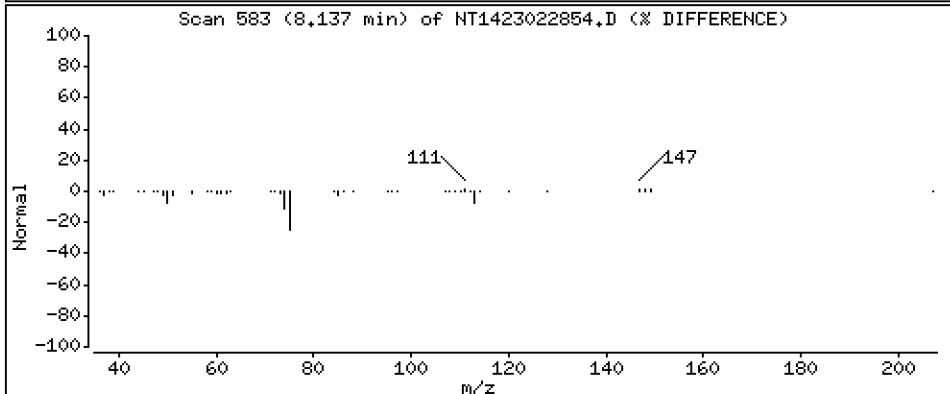
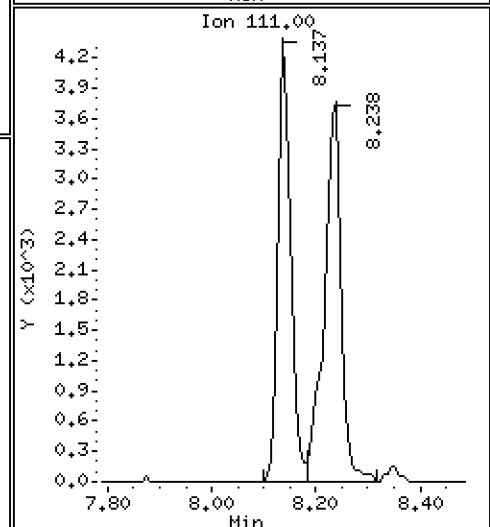
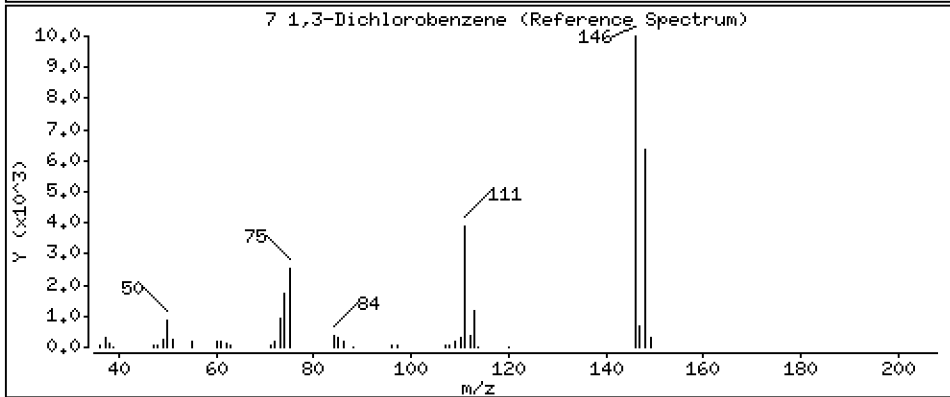
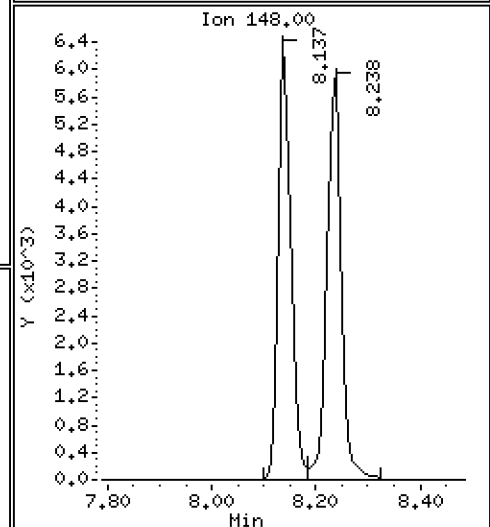
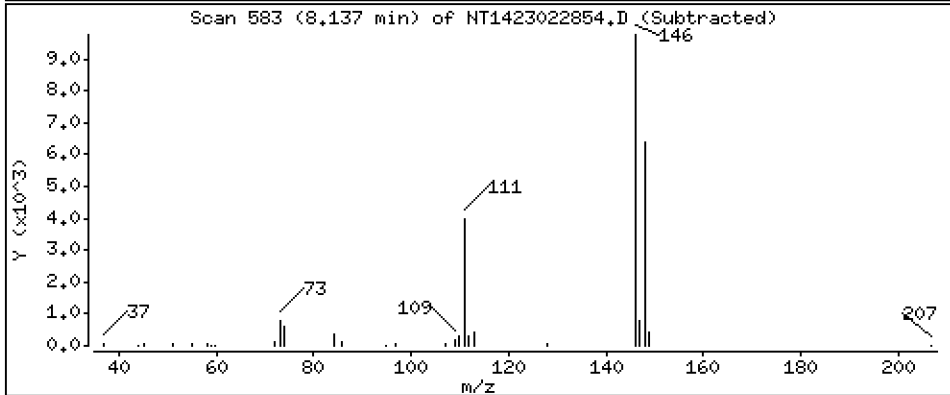
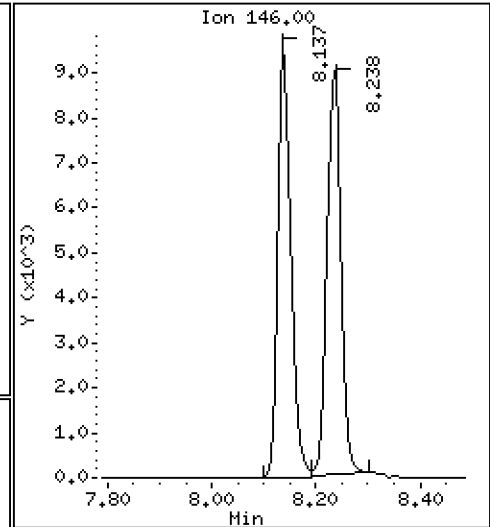
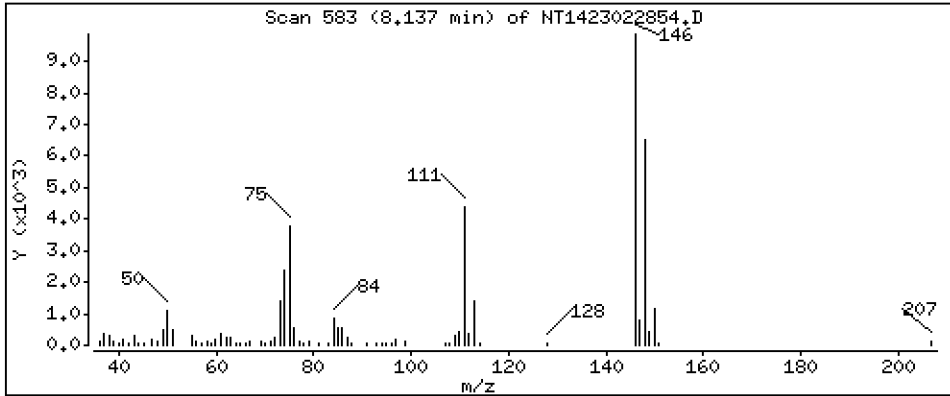
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 4,023 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

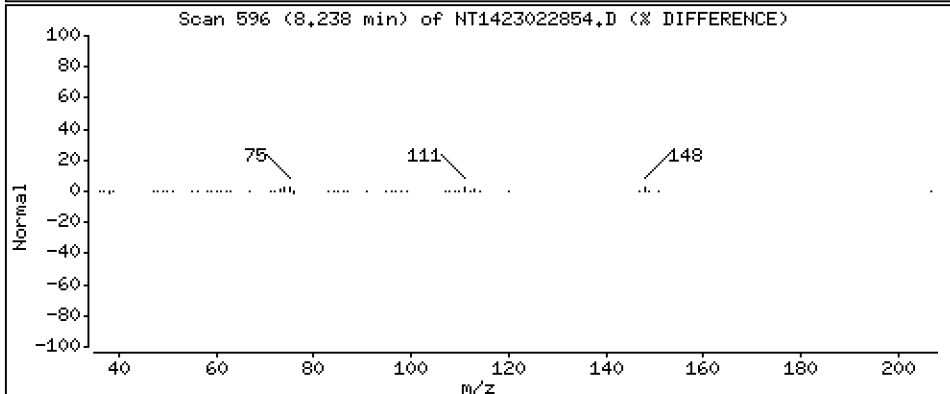
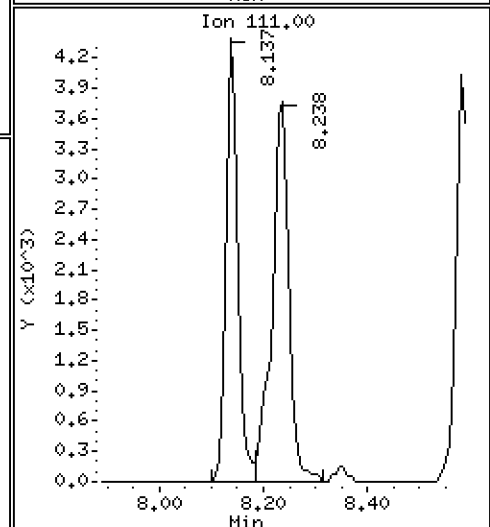
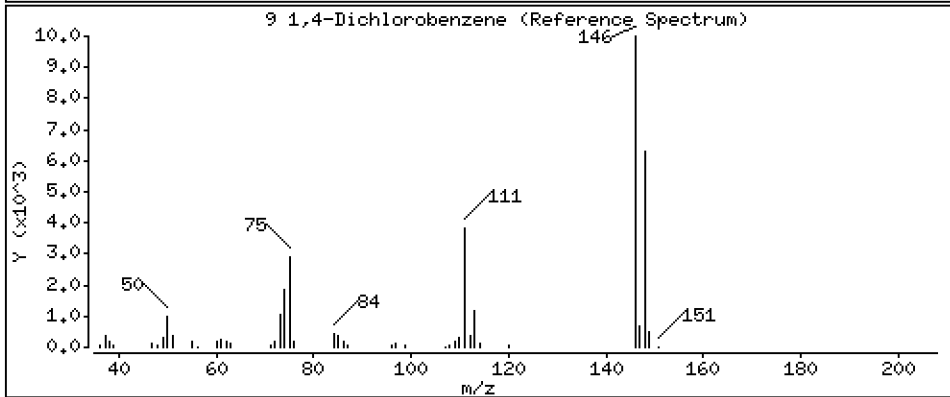
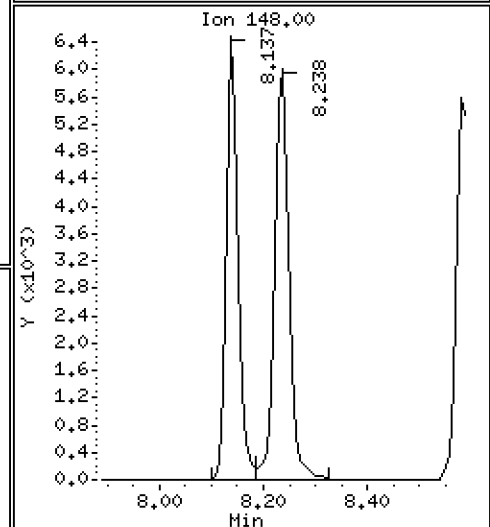
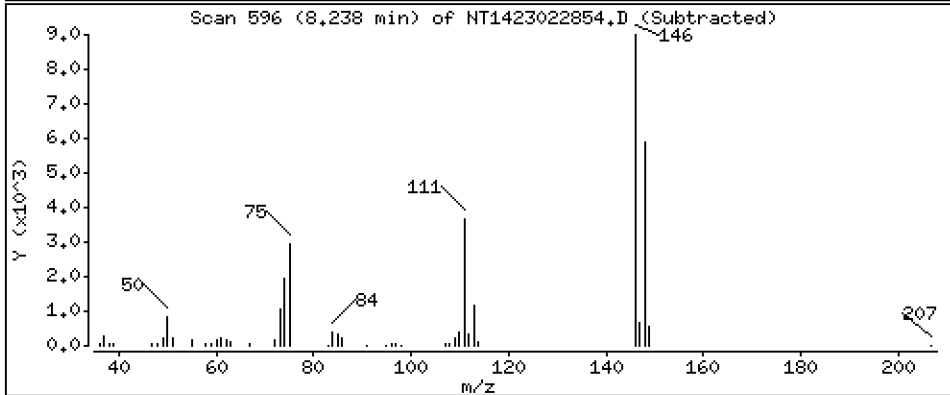
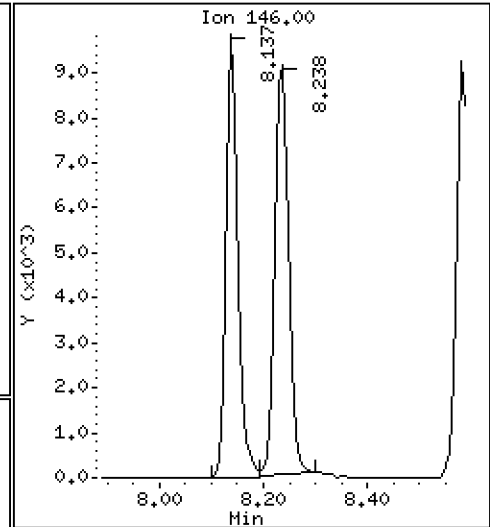
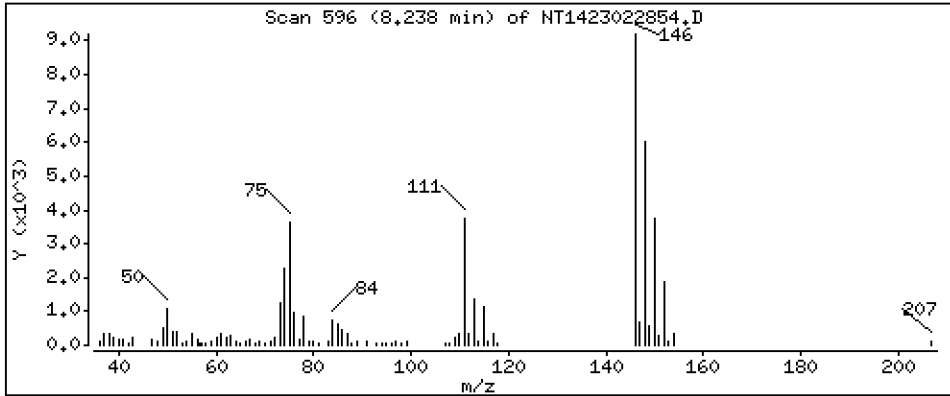
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,061 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

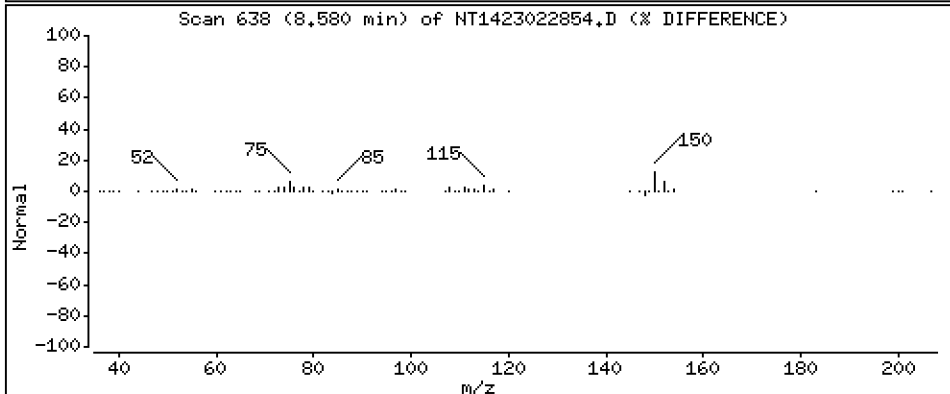
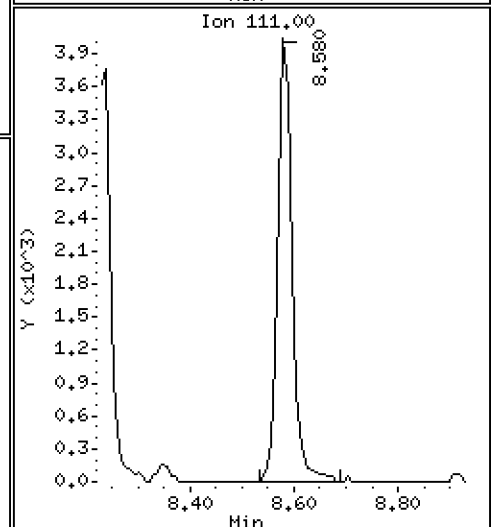
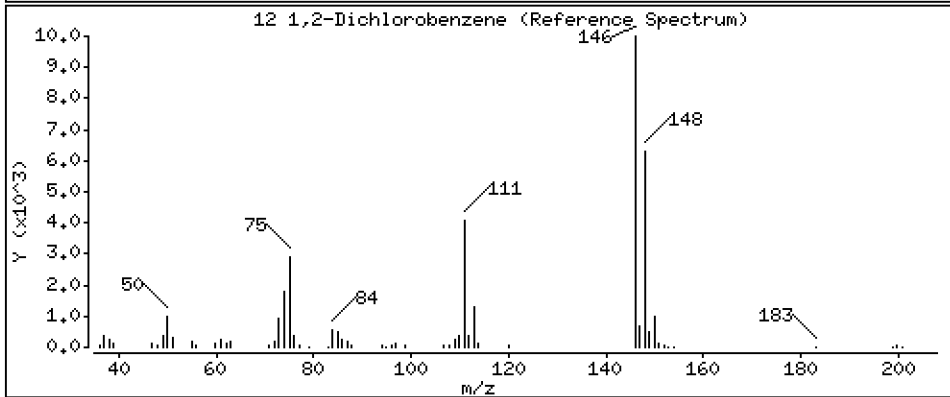
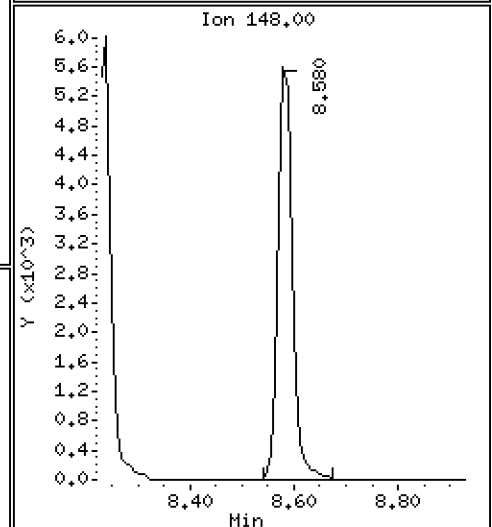
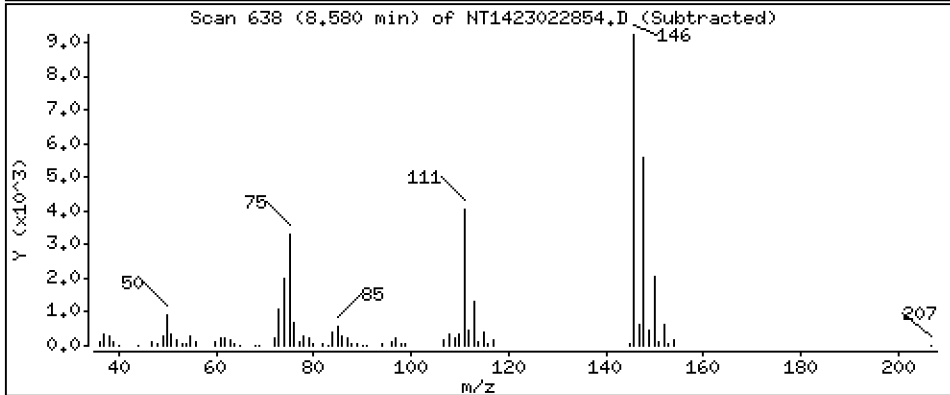
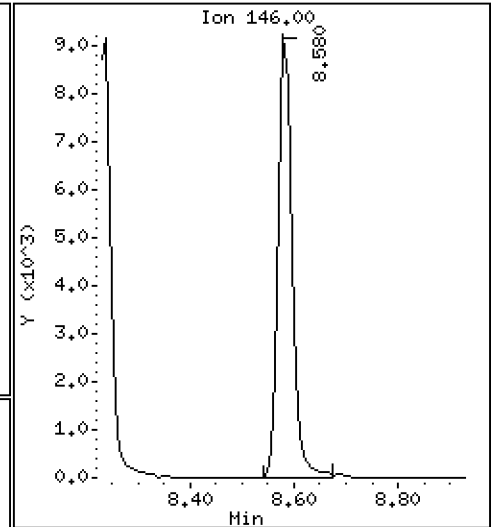
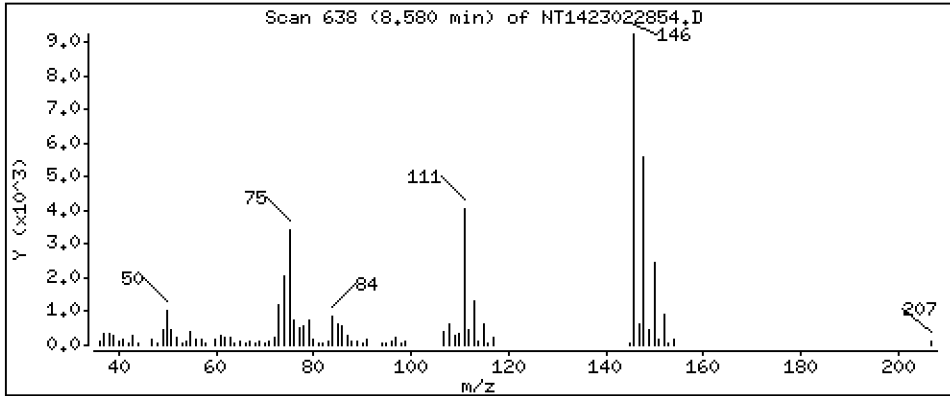
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 4.298 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

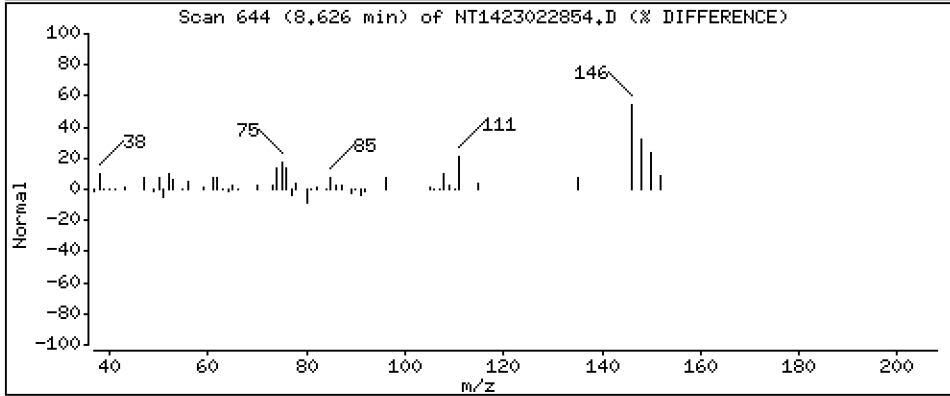
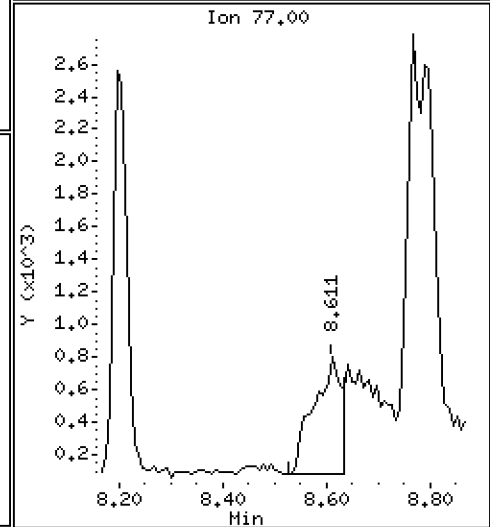
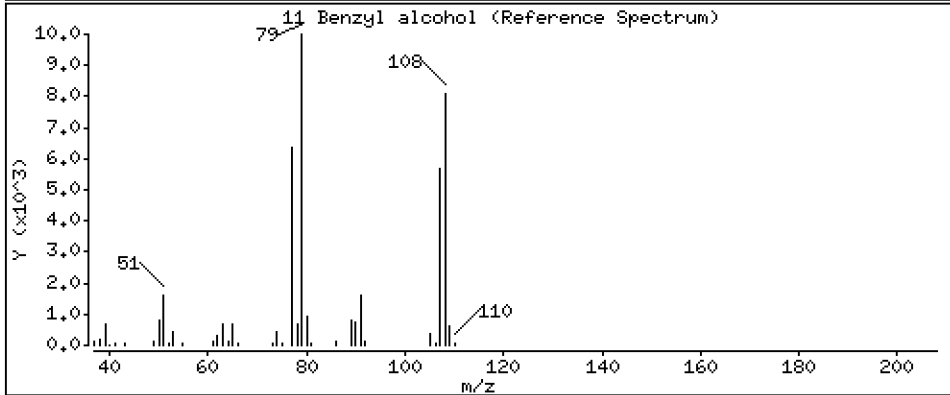
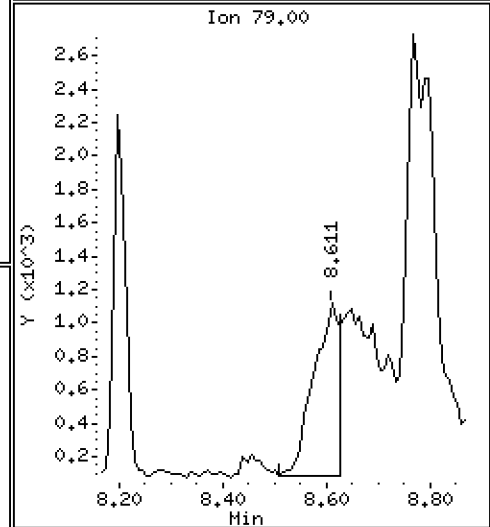
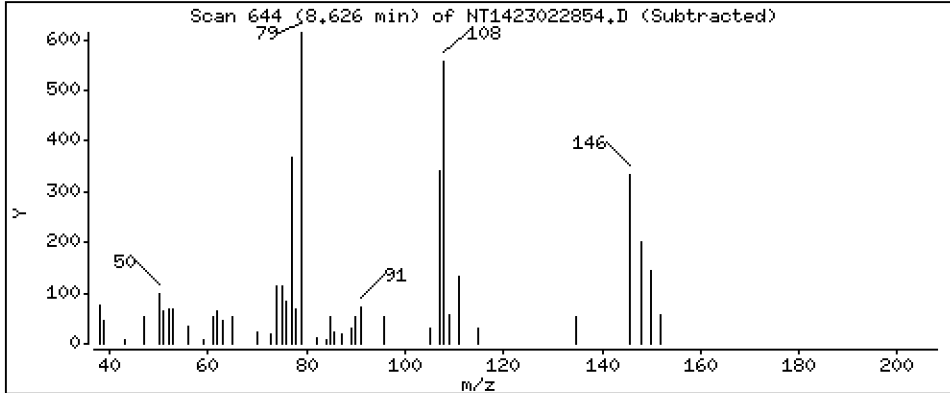
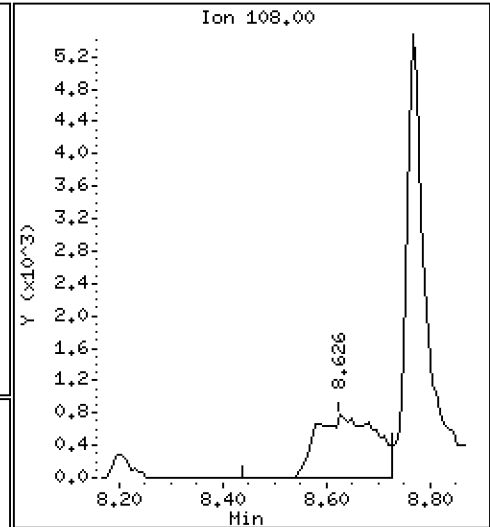
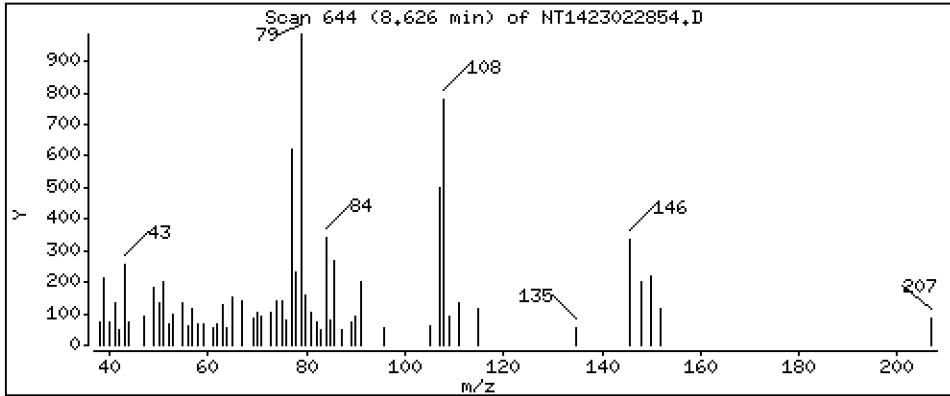
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 2,864 ug/mL





Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

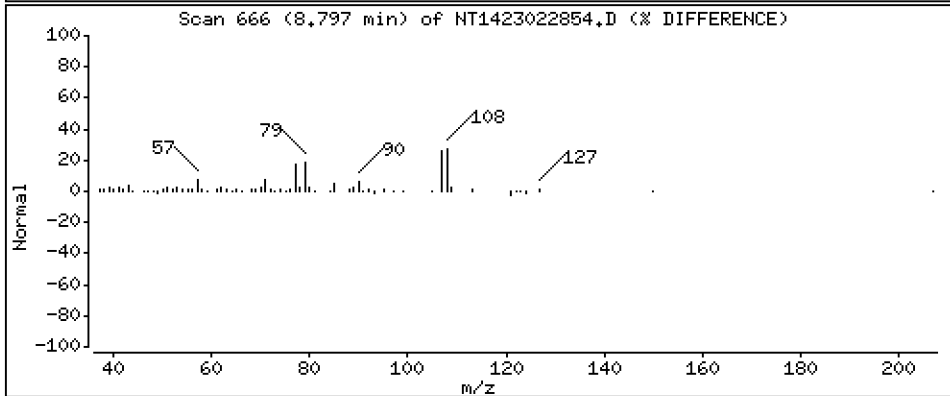
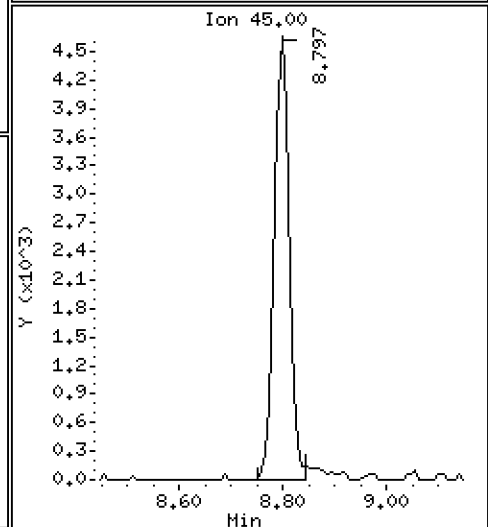
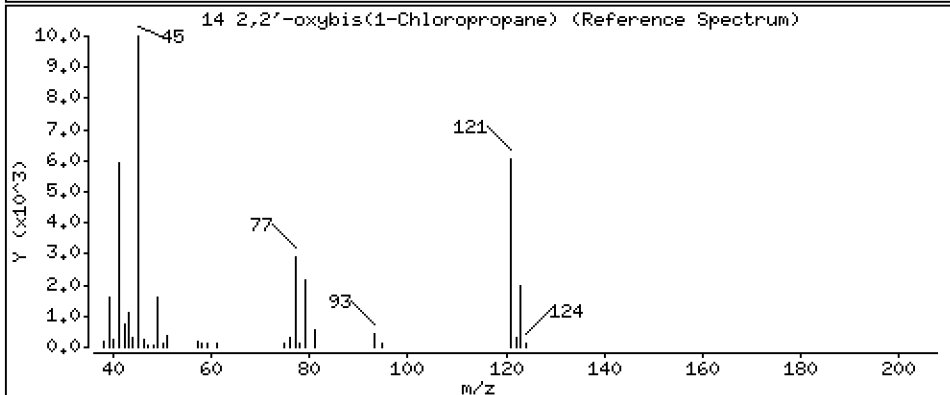
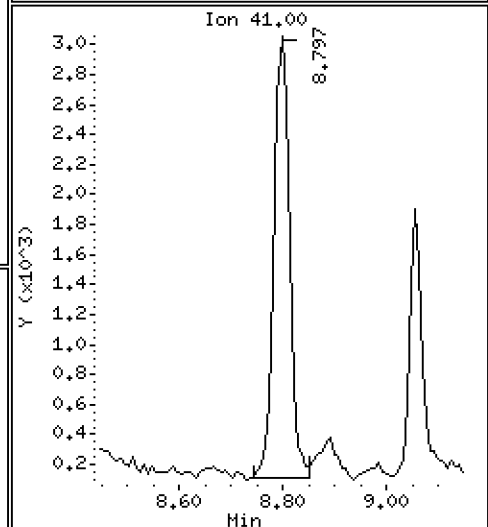
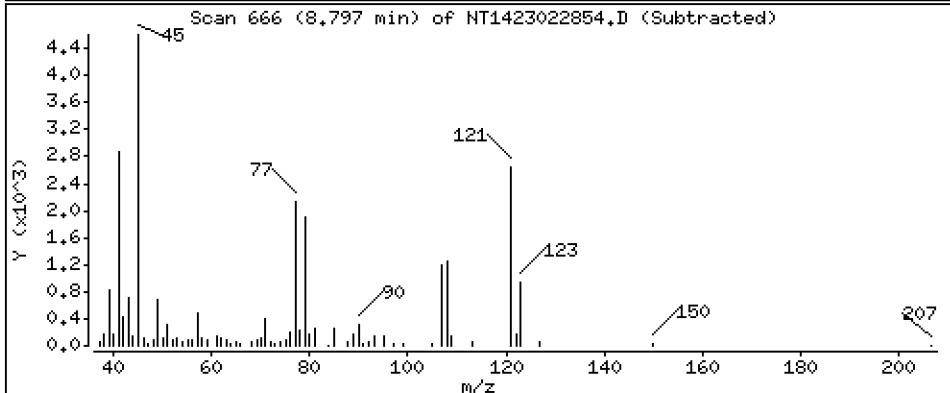
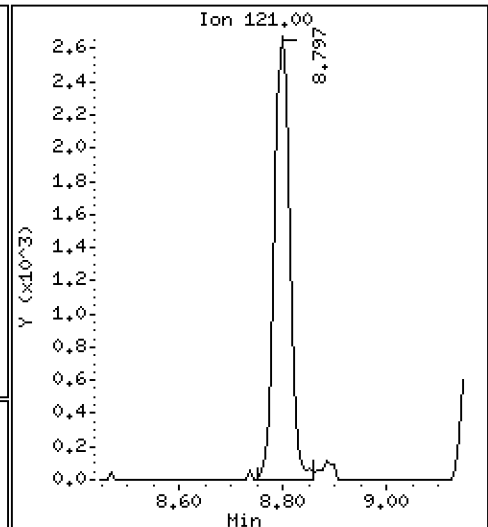
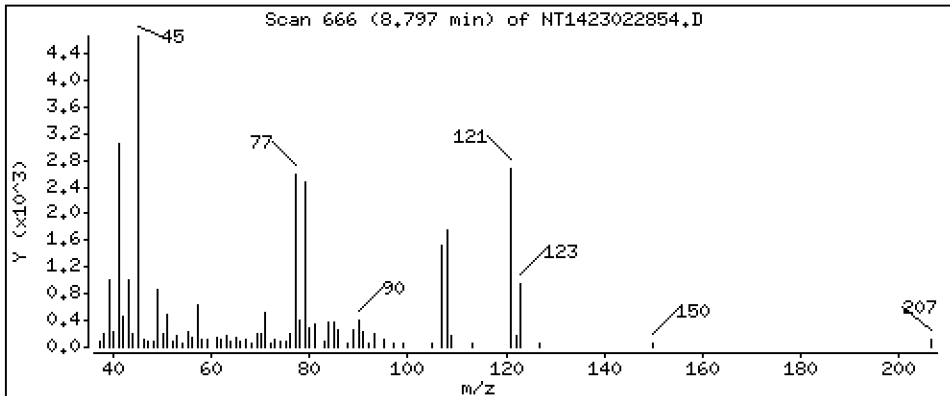
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 5.193 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

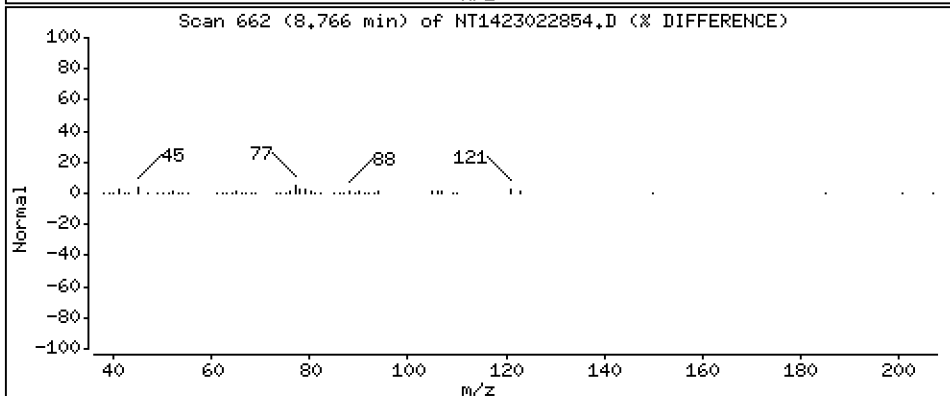
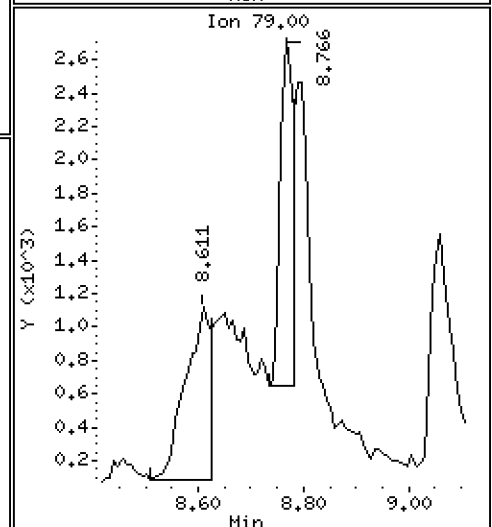
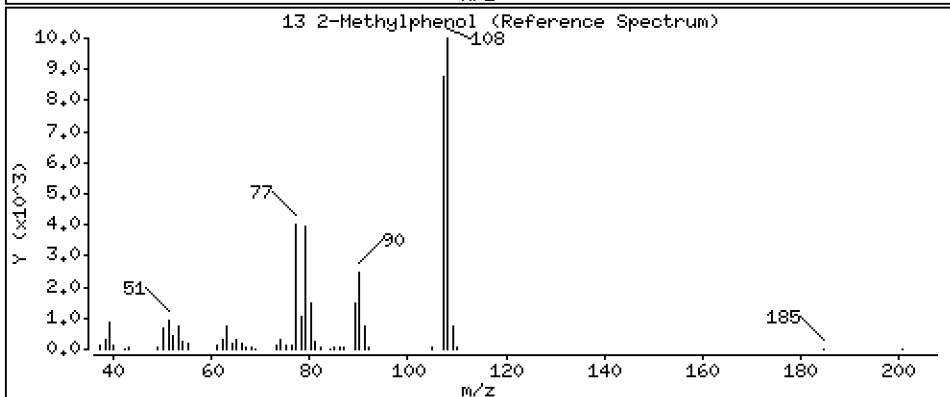
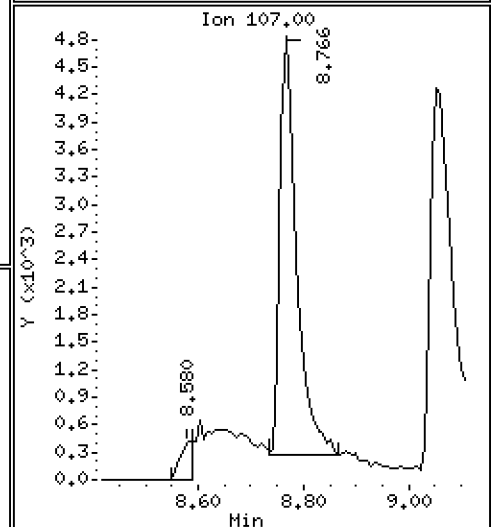
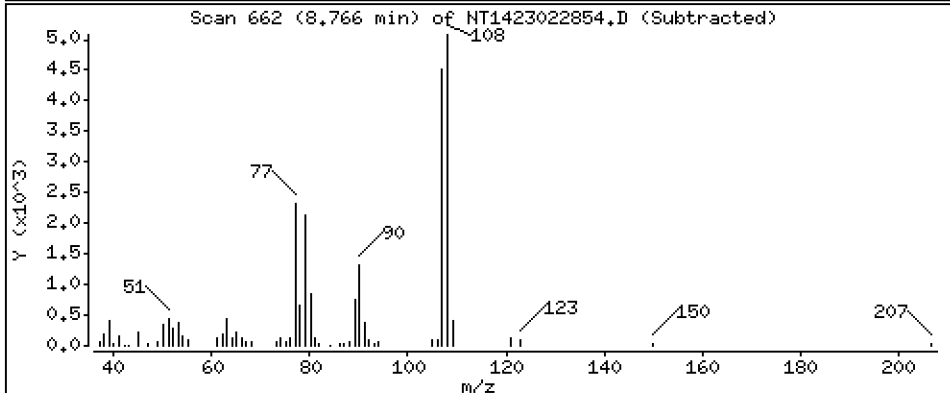
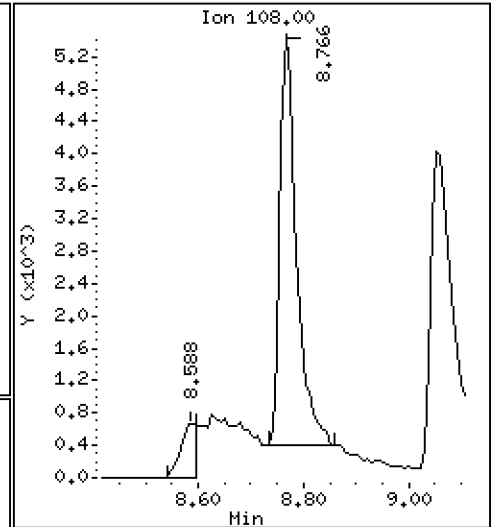
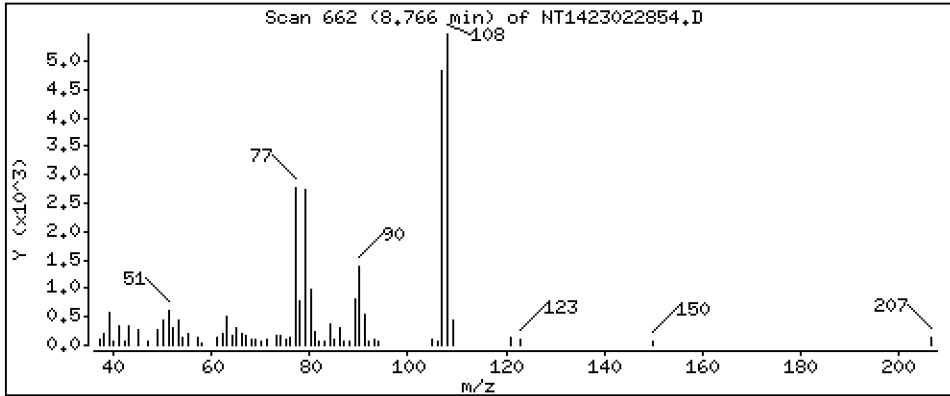
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 3,479 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

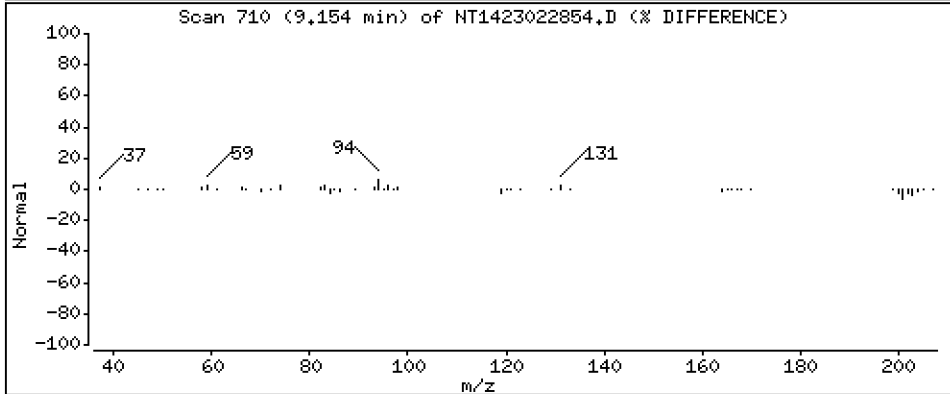
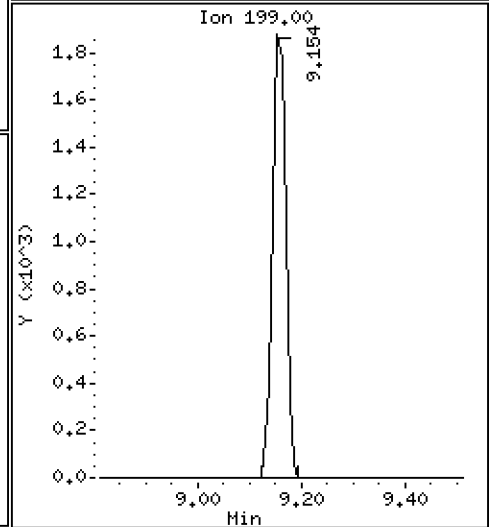
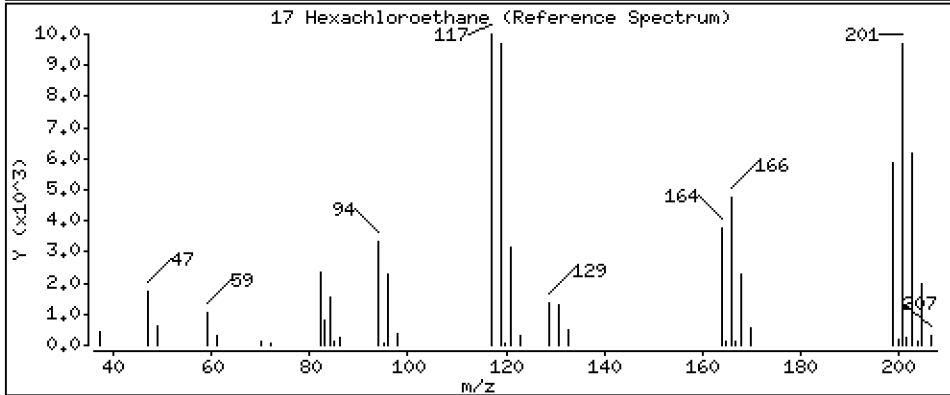
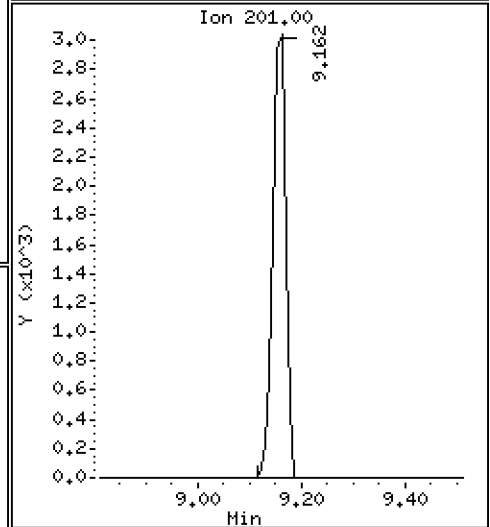
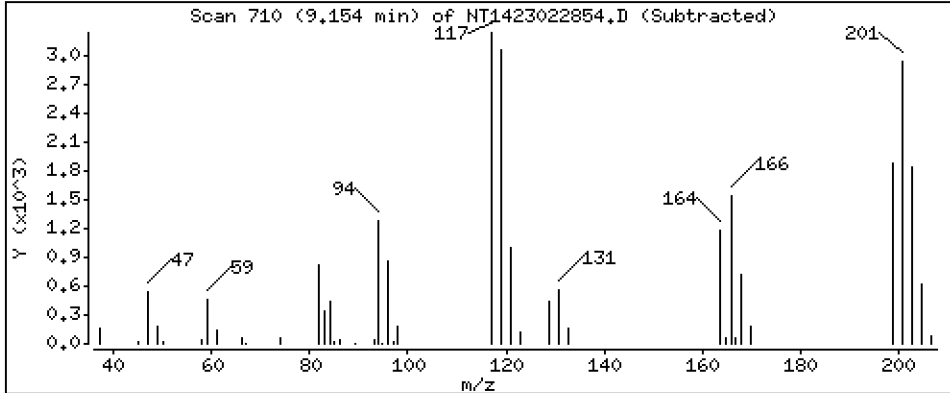
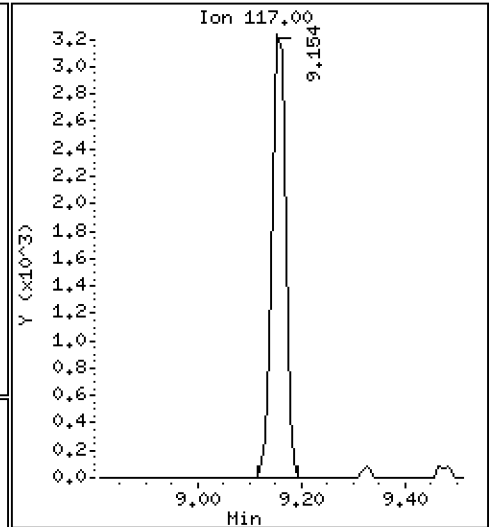
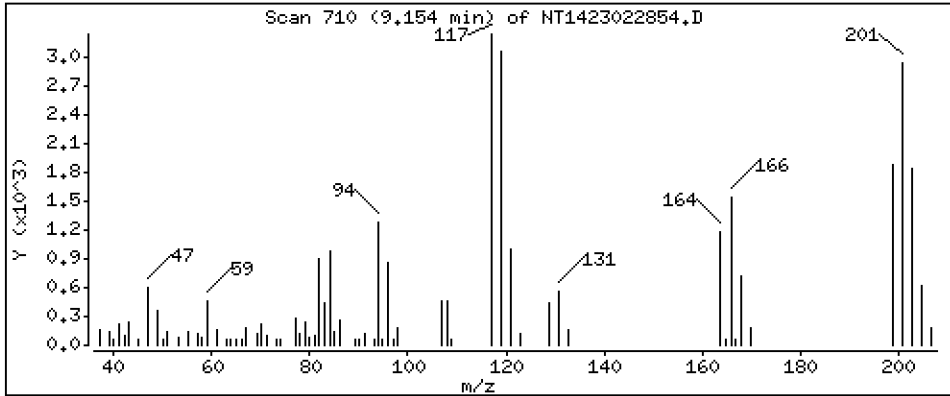
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 3.758 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

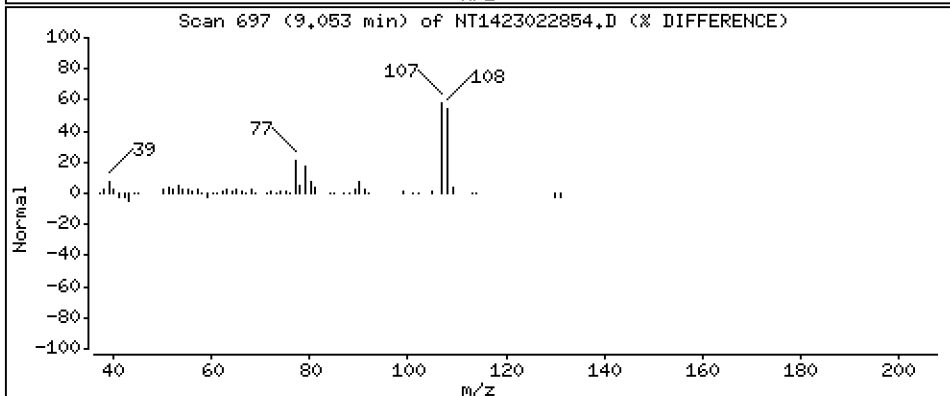
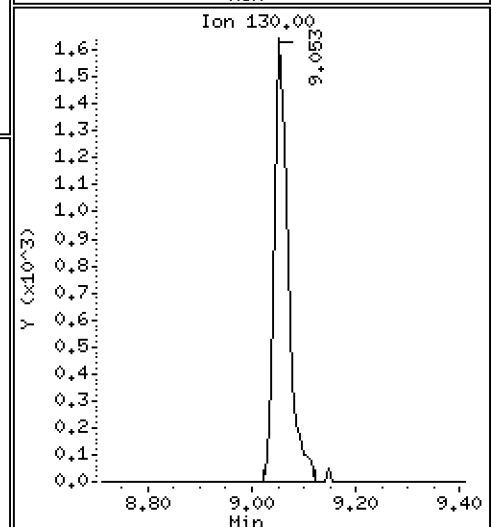
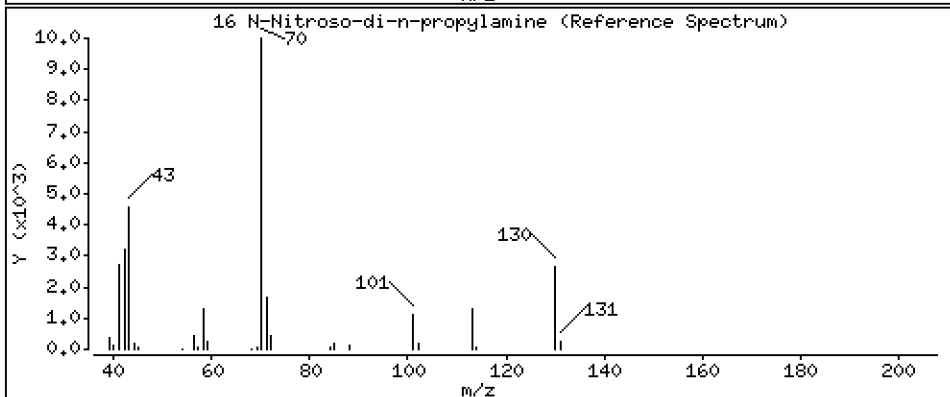
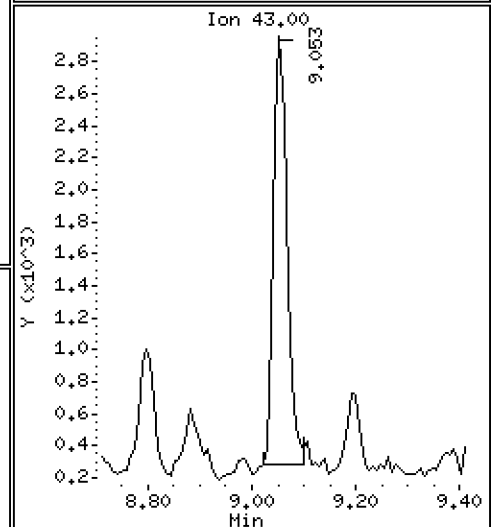
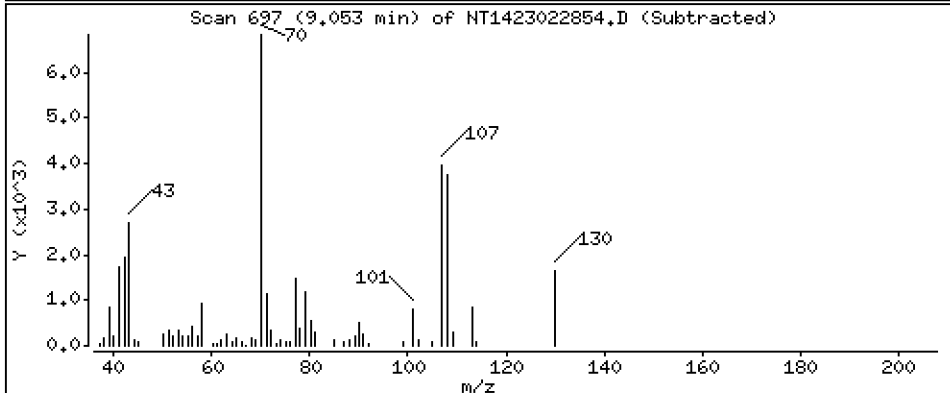
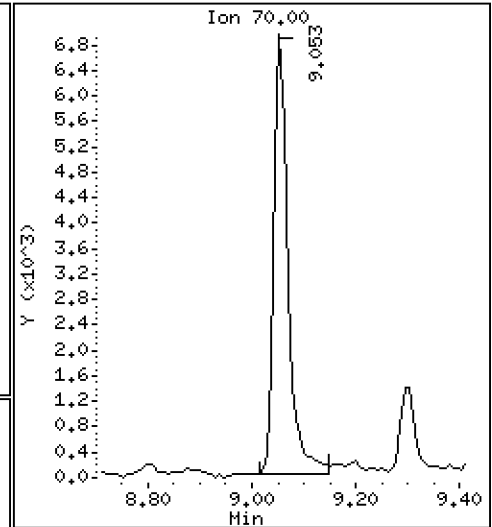
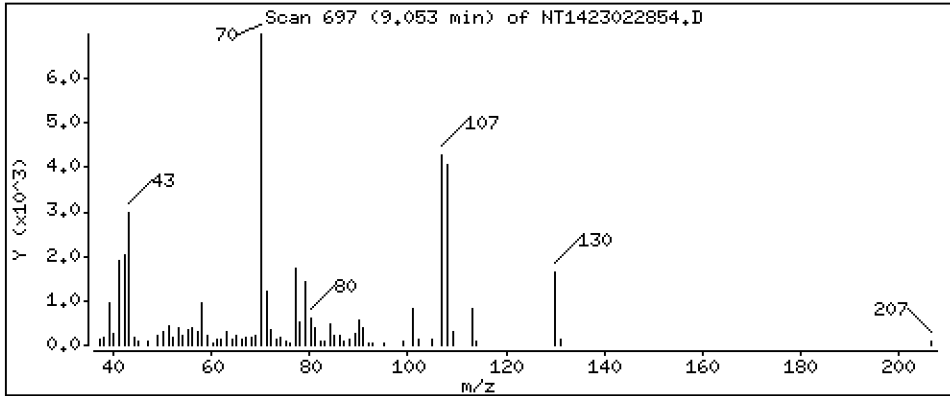
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 5.204 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

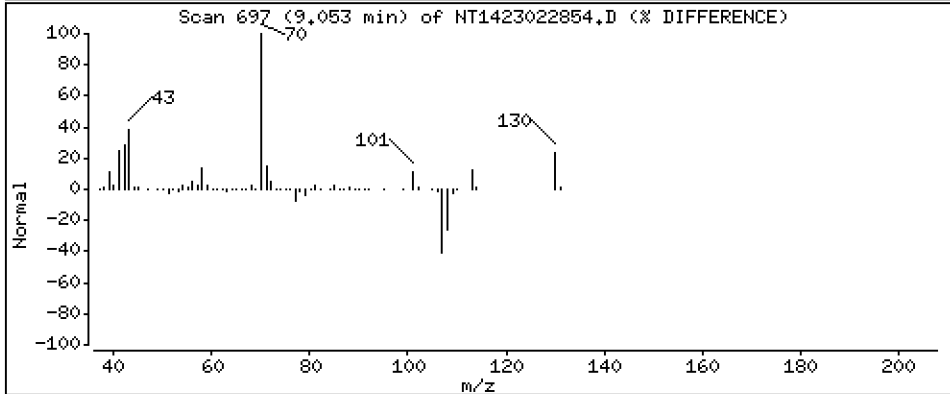
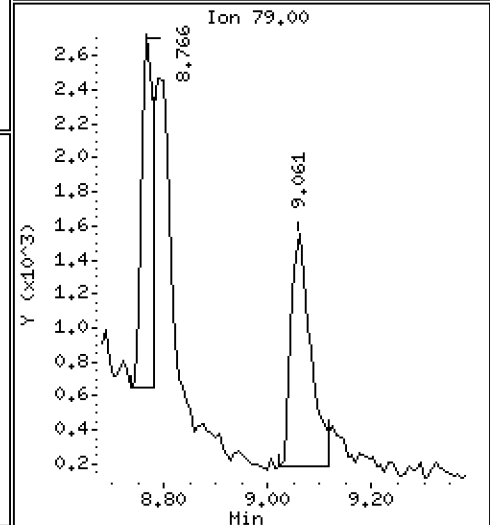
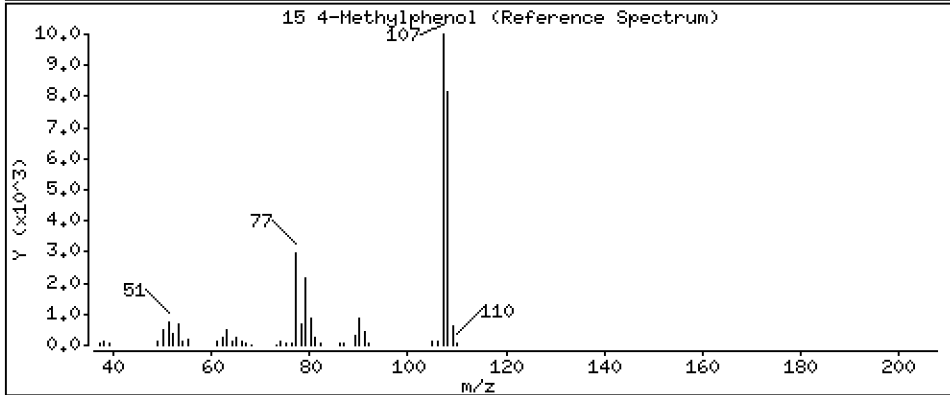
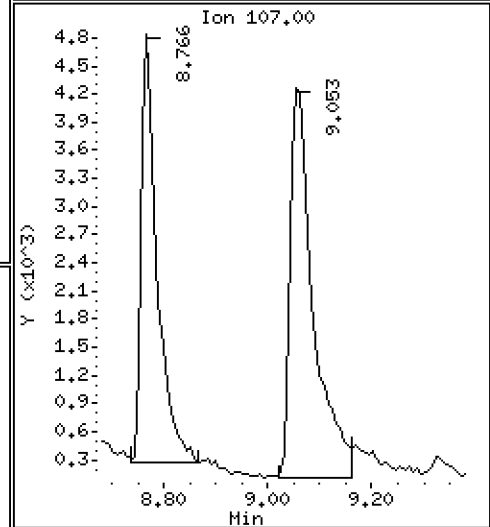
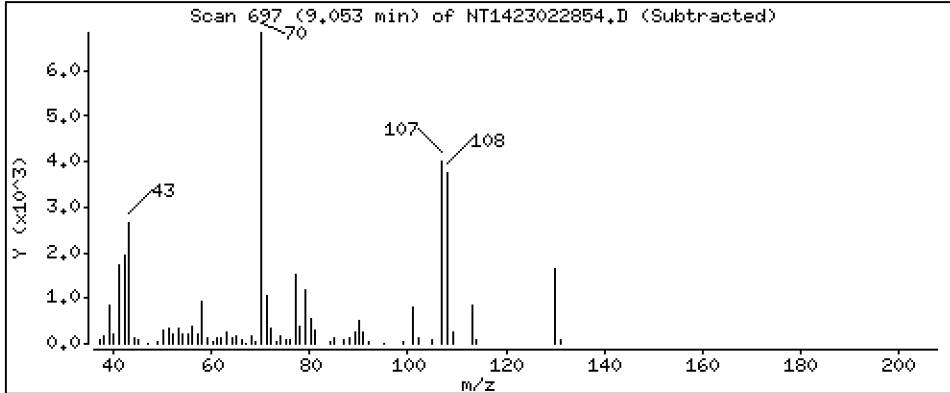
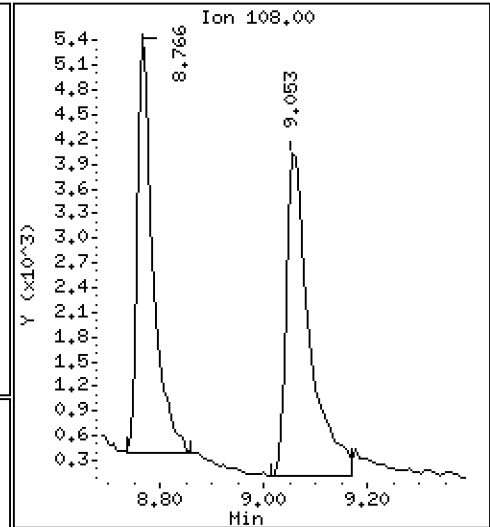
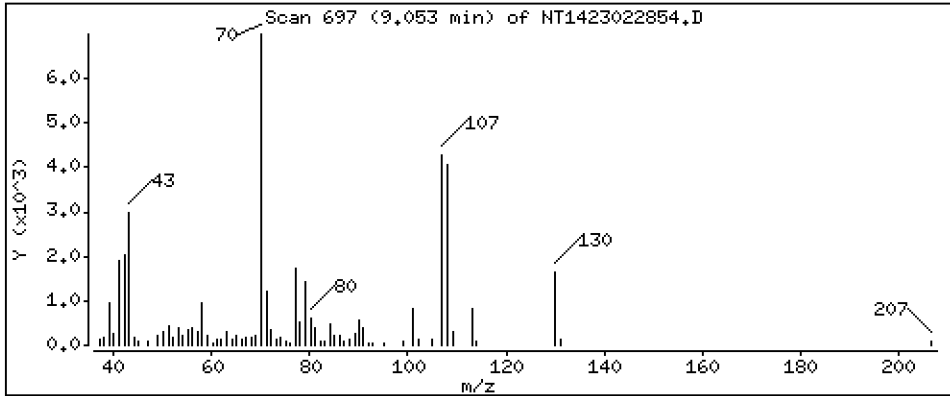
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 3.407 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

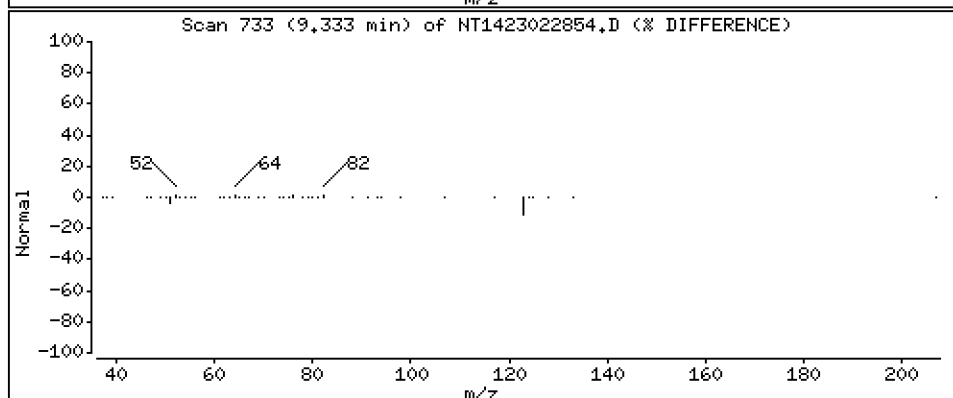
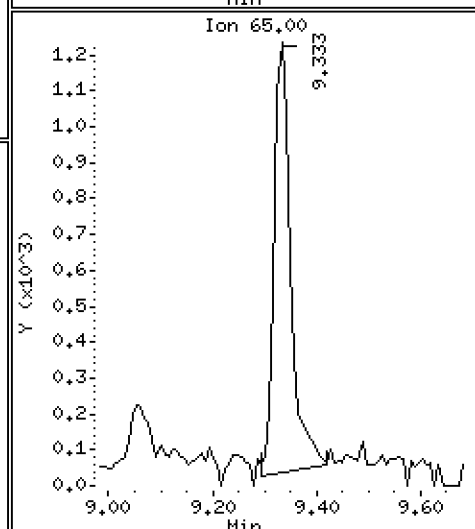
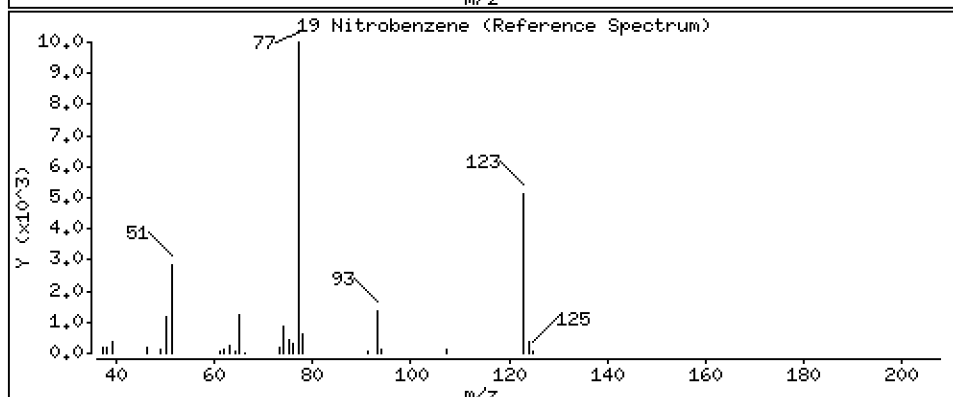
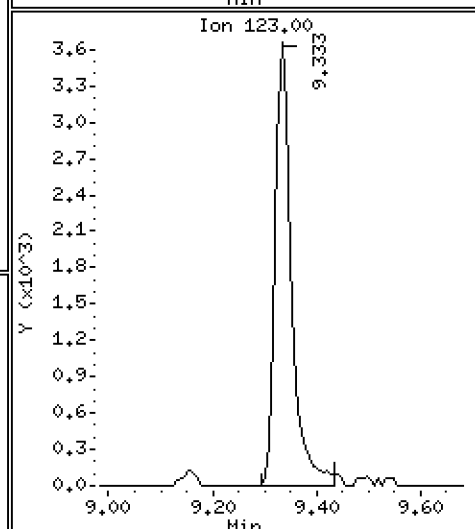
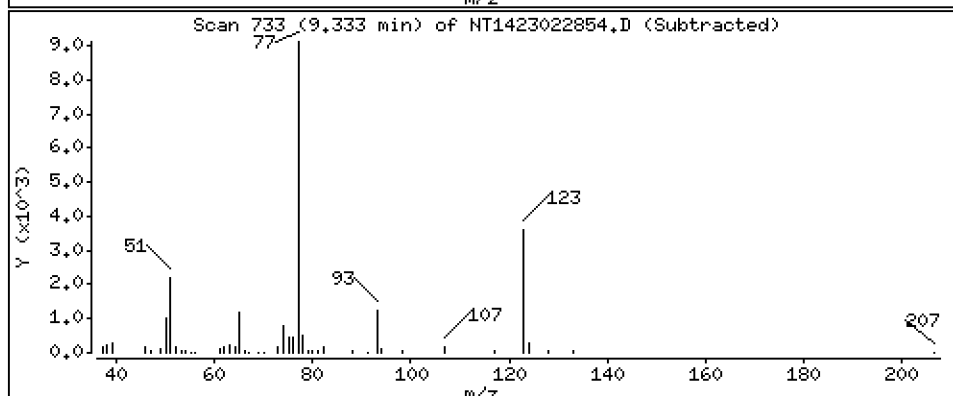
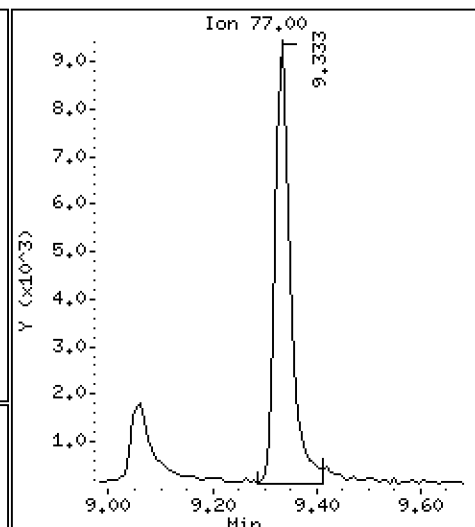
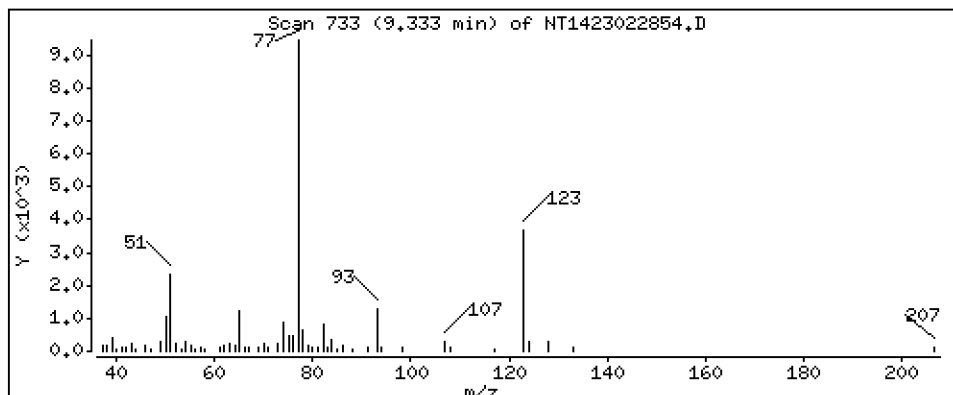
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

19 Nitrobenzene

Concentration: 5.056 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

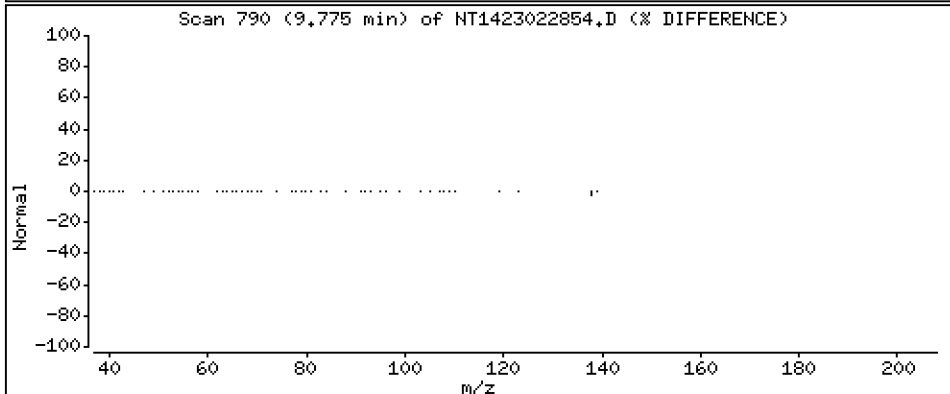
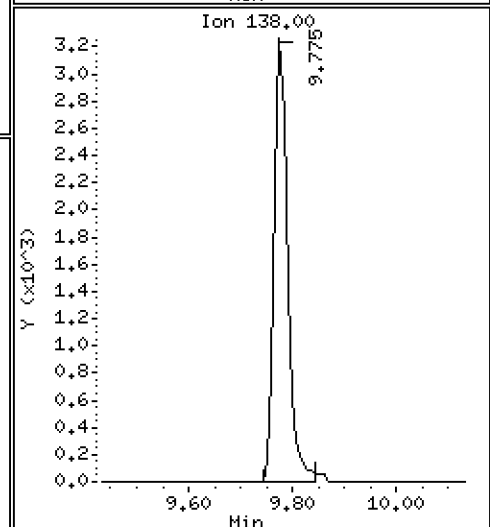
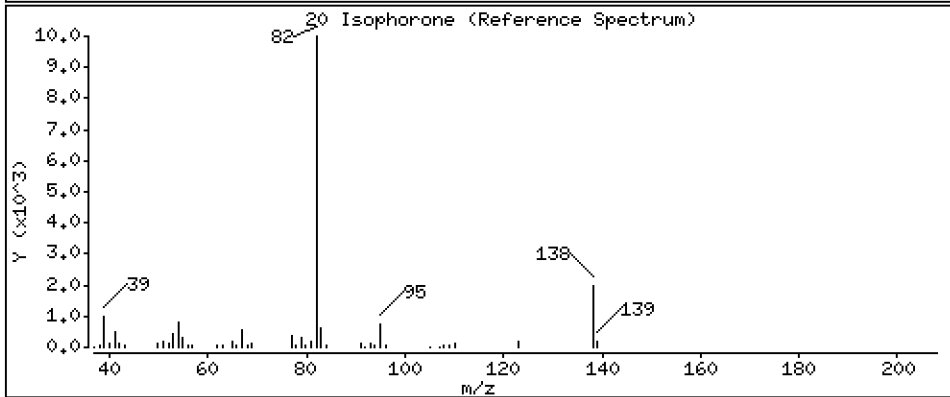
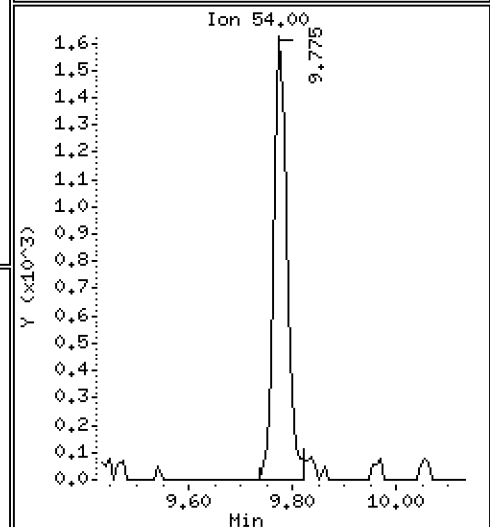
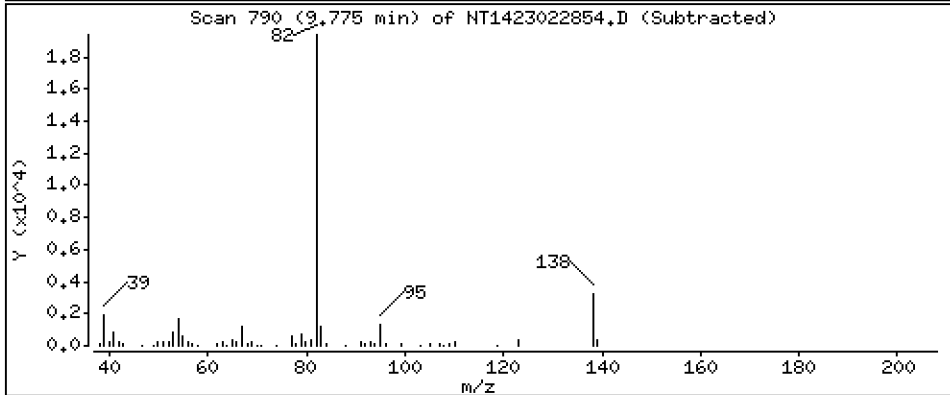
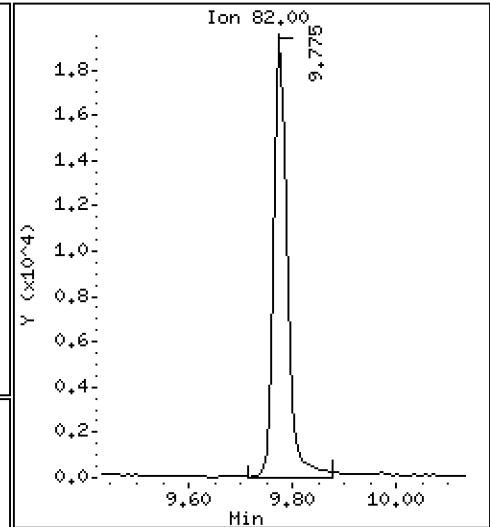
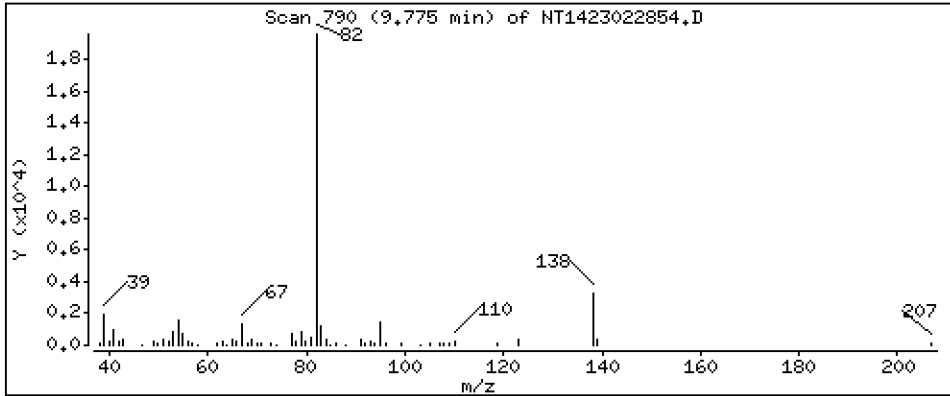
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 5.948 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

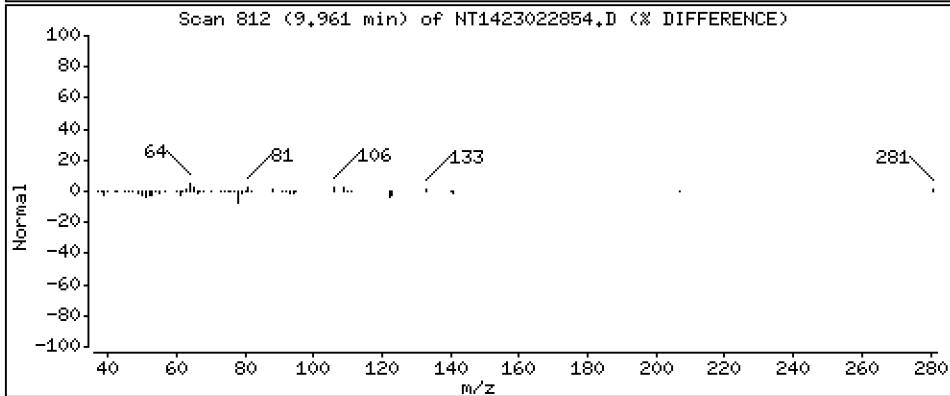
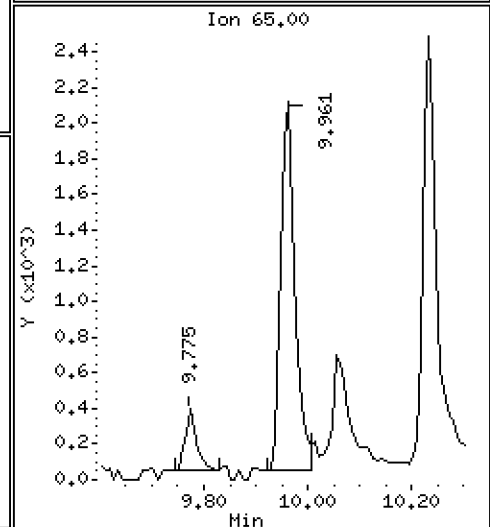
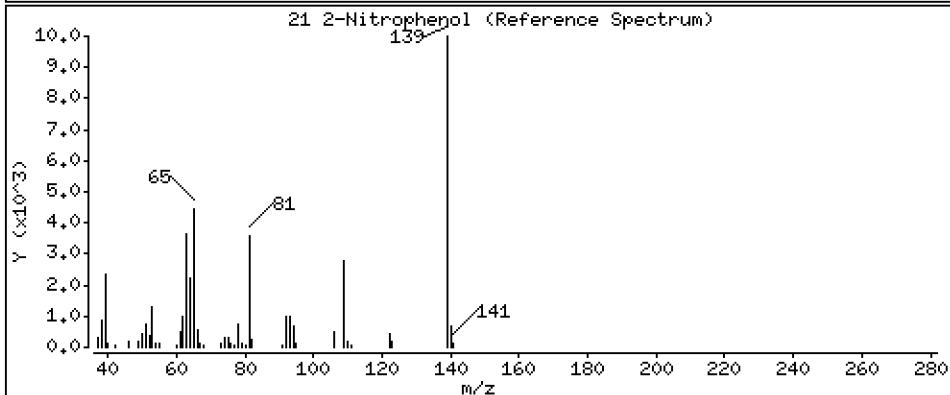
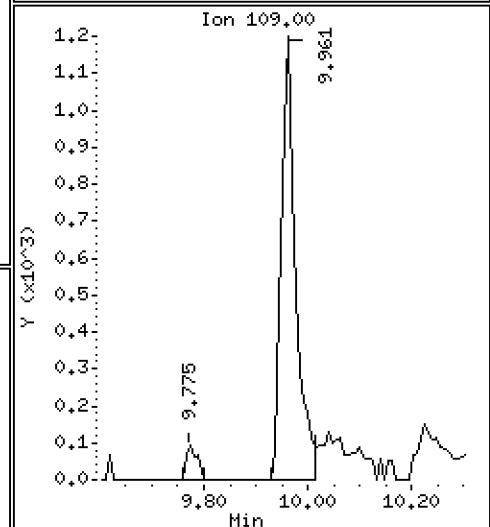
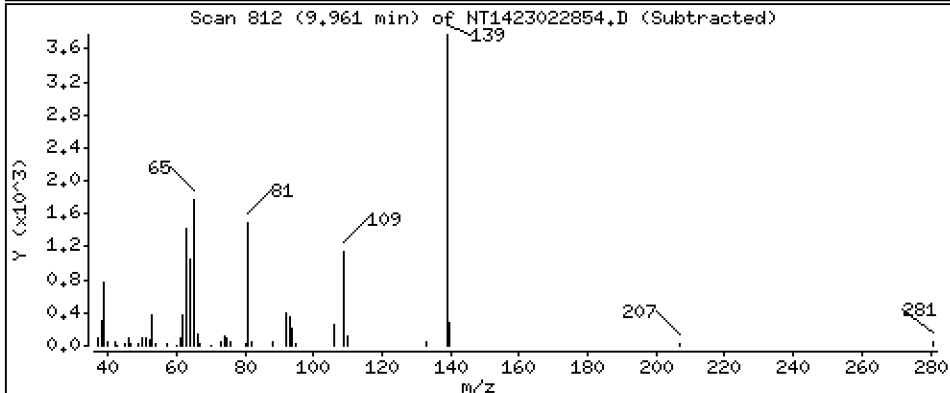
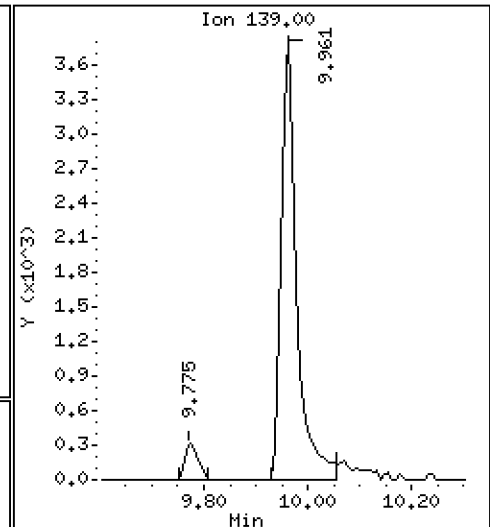
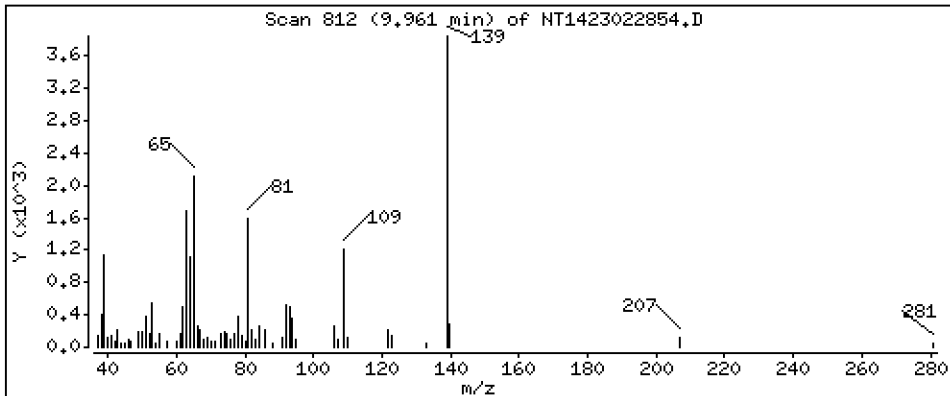
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,116 ug/mL





Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

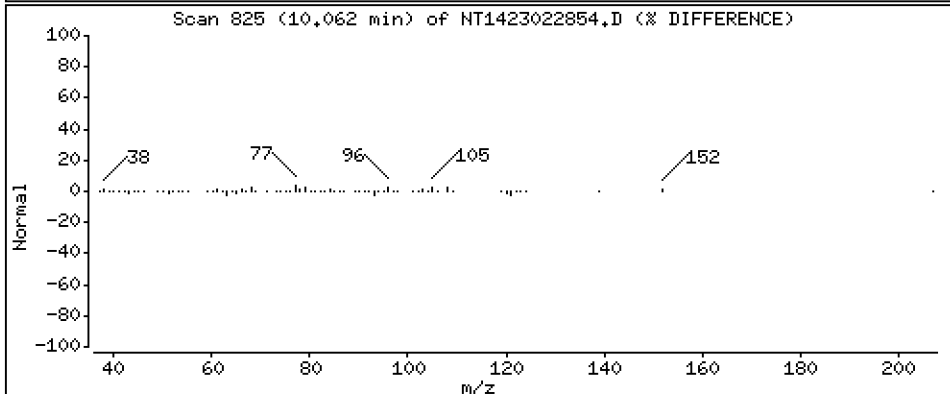
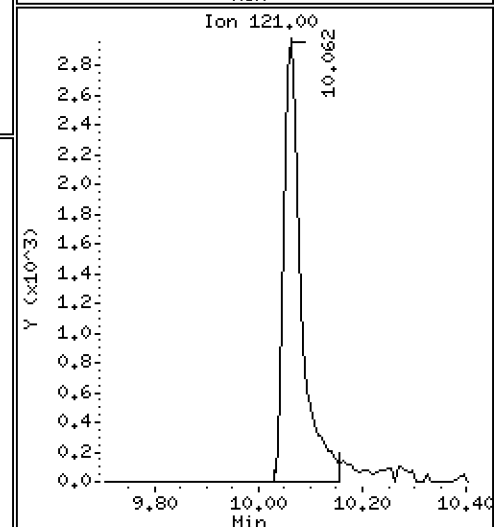
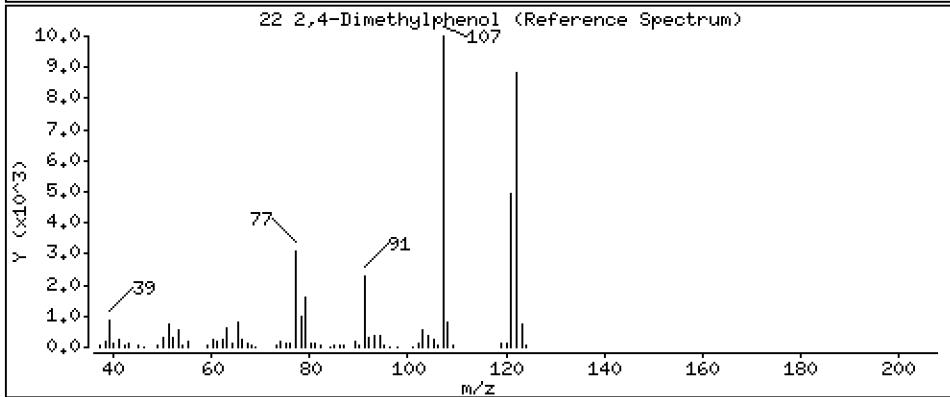
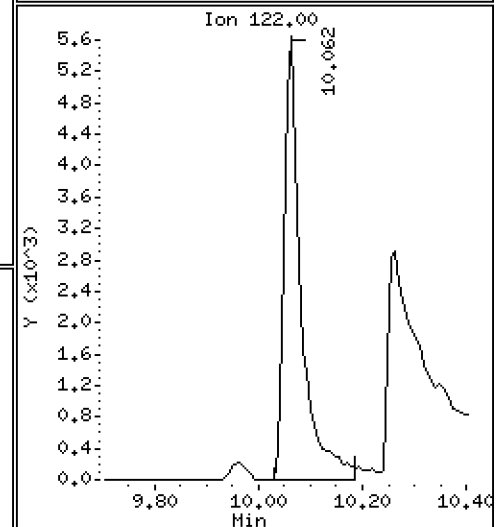
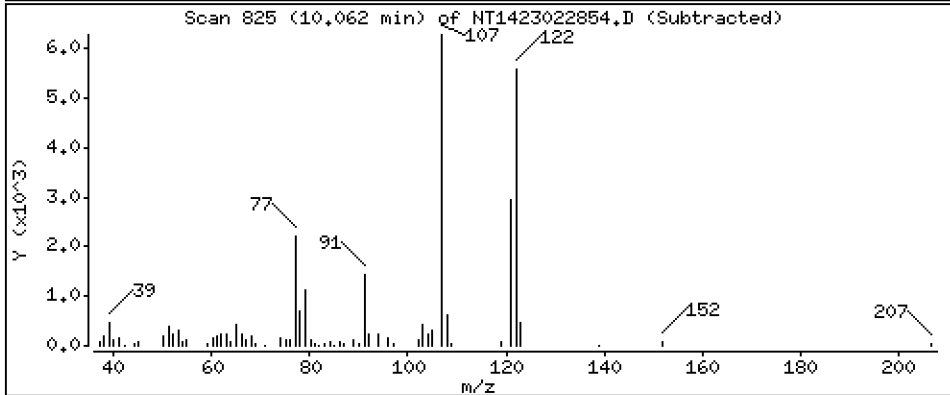
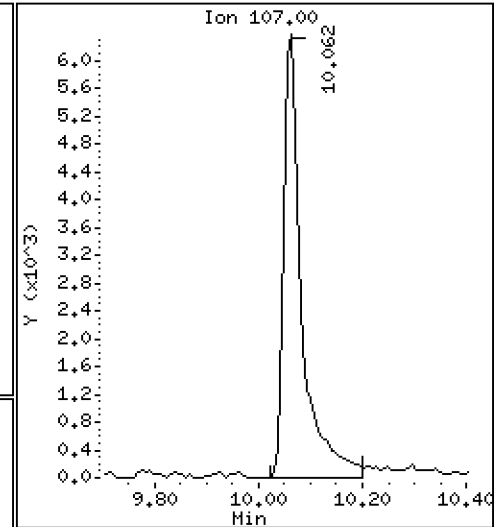
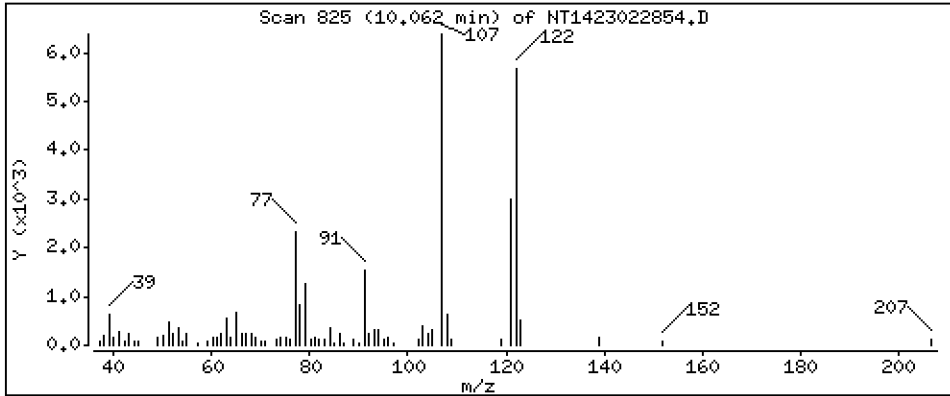
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 4,589 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

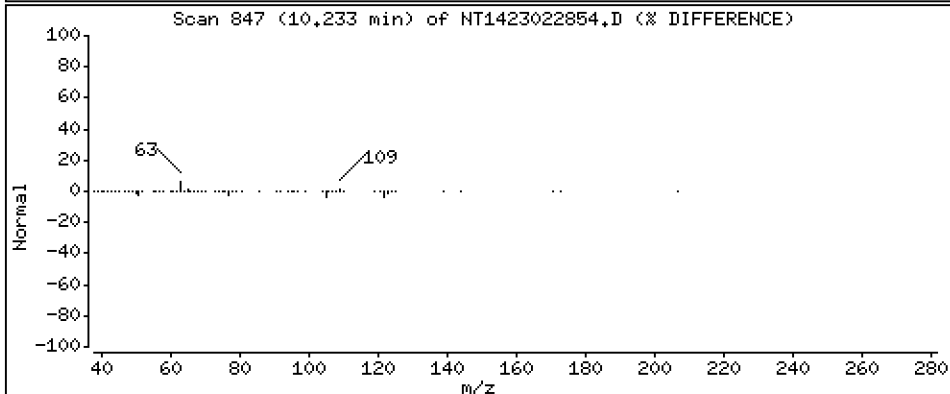
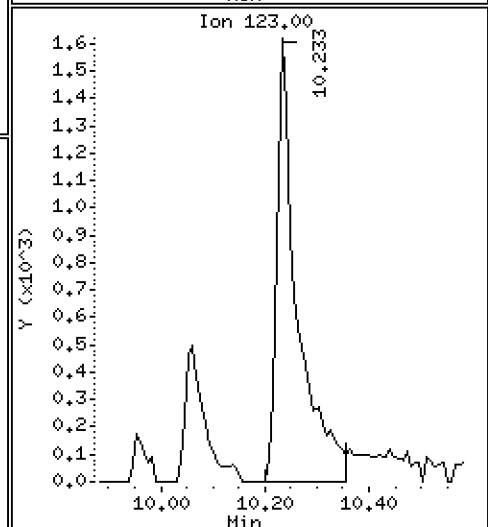
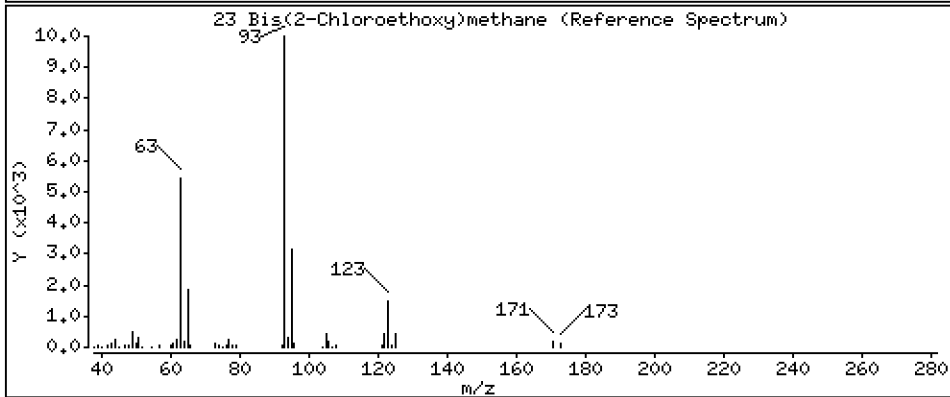
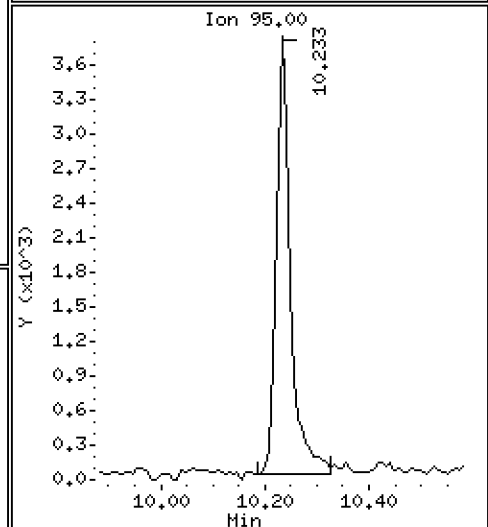
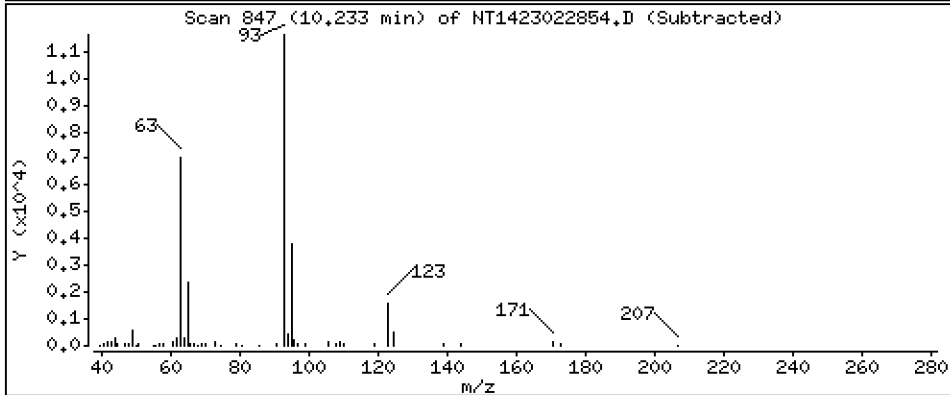
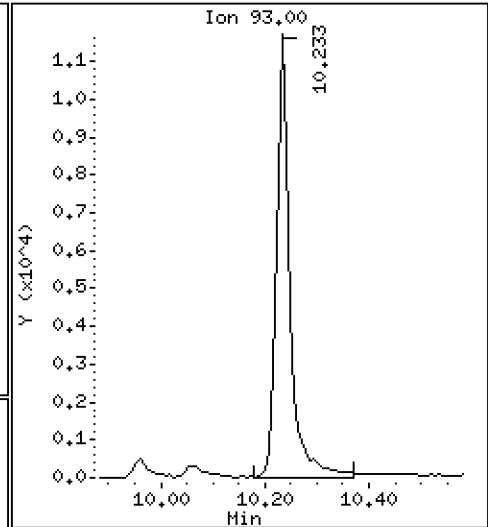
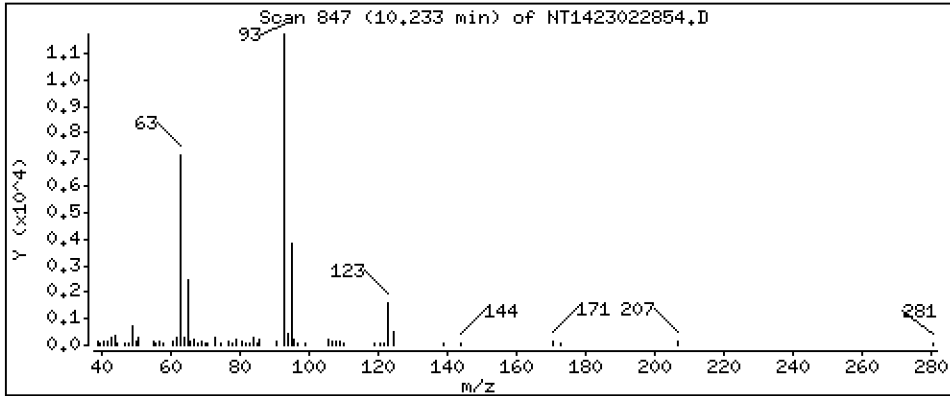
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,676 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

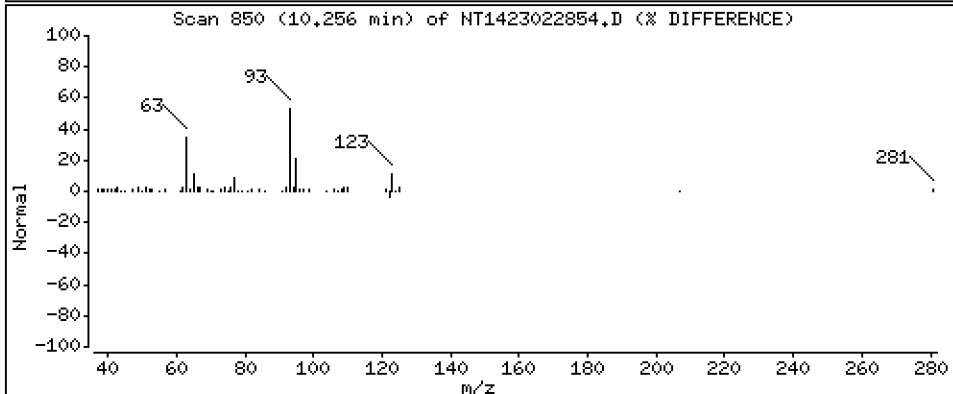
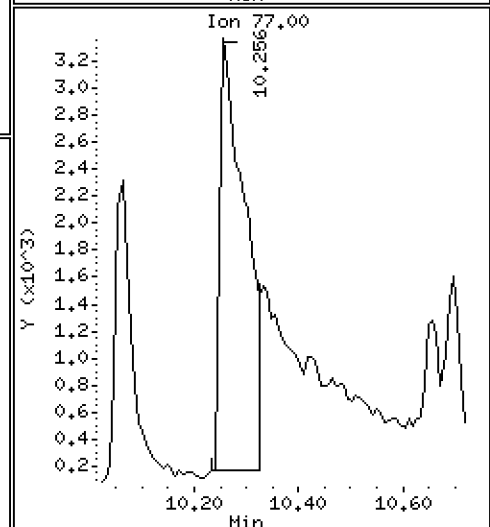
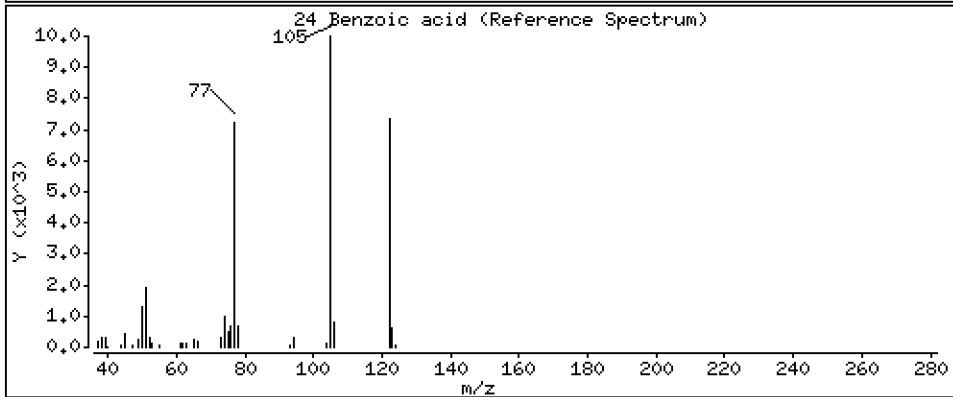
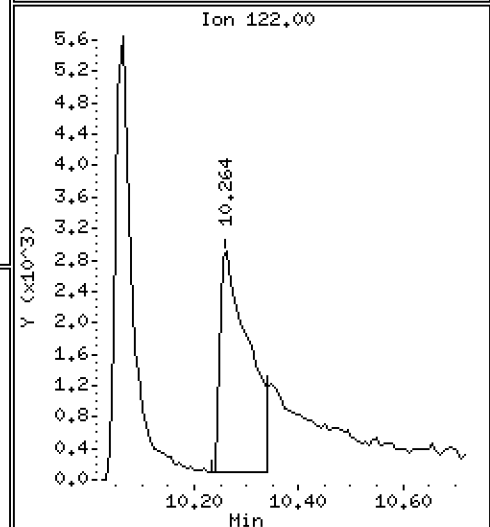
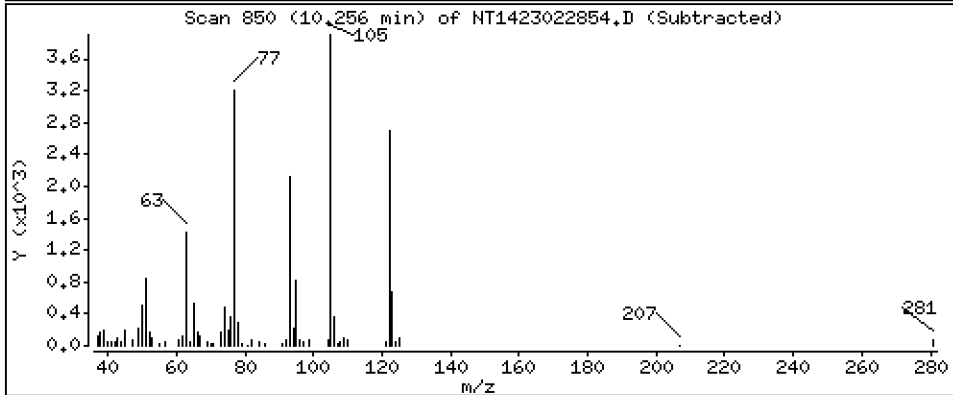
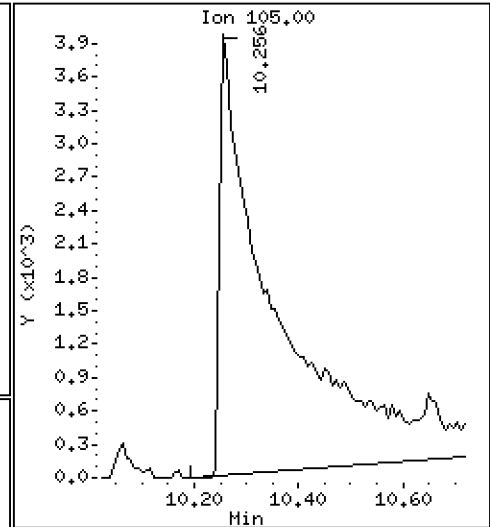
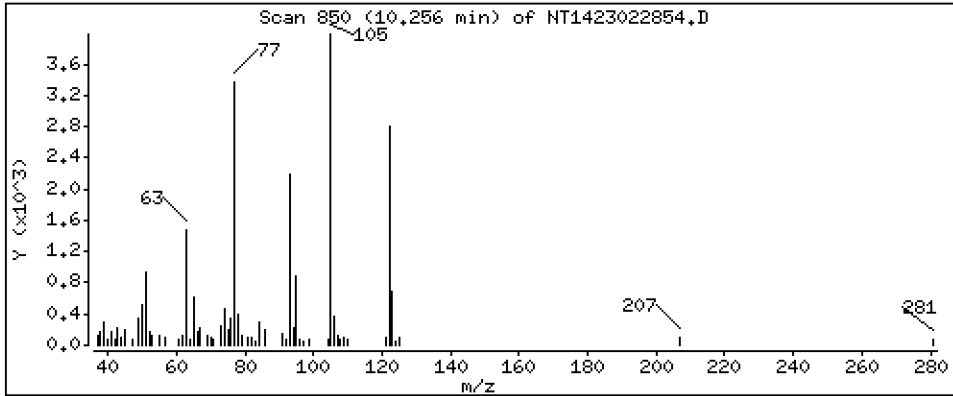
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 30,23 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

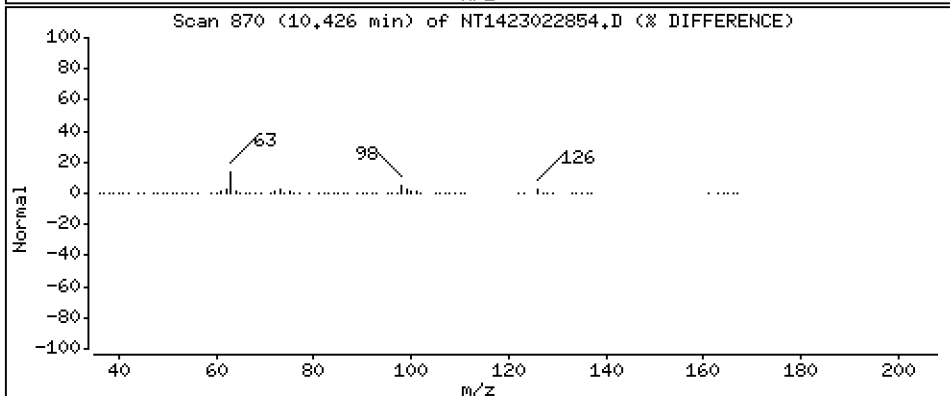
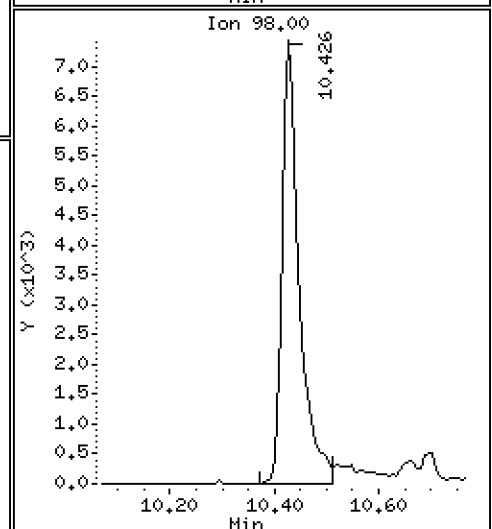
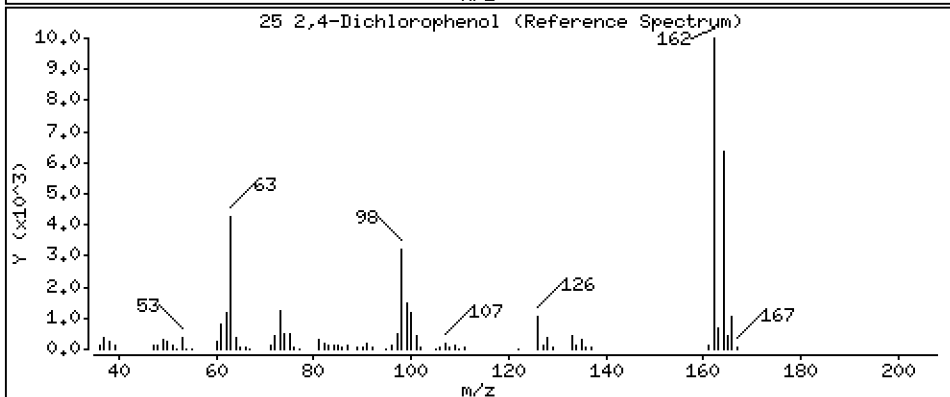
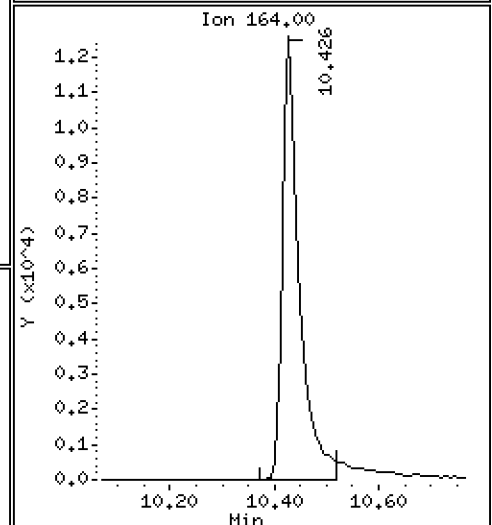
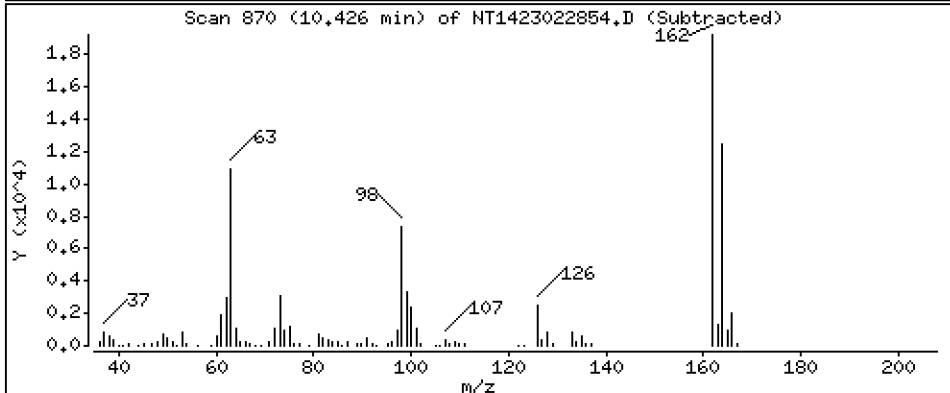
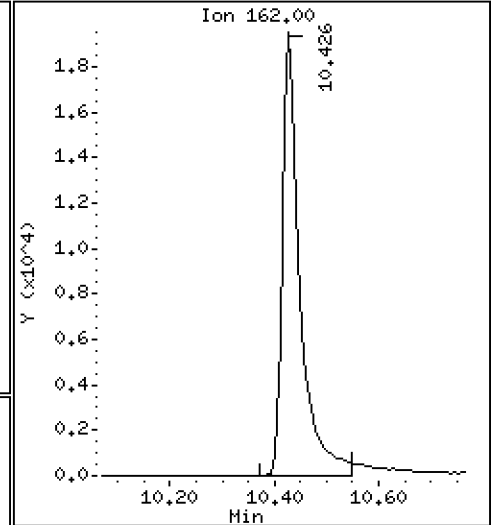
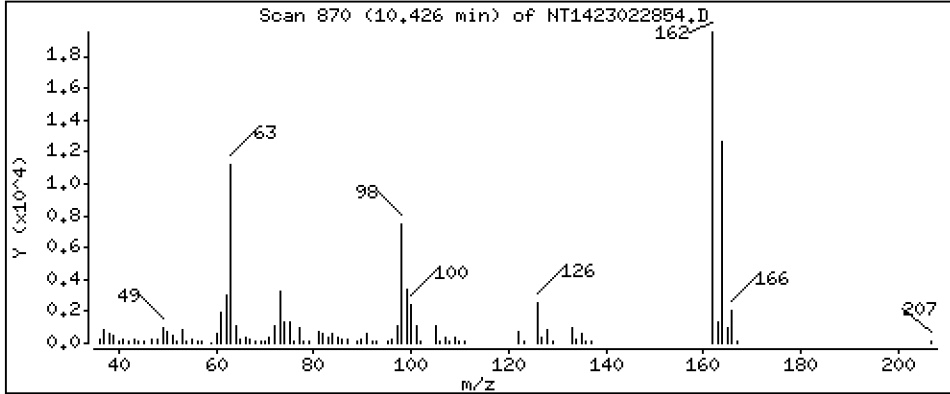
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 15,27 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

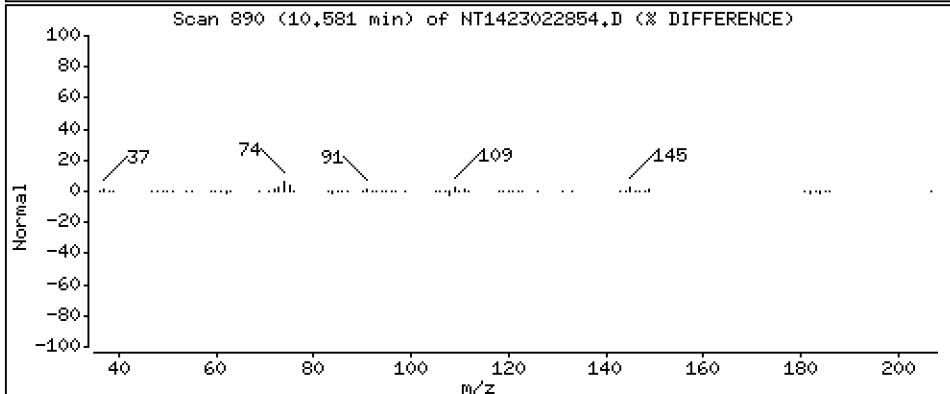
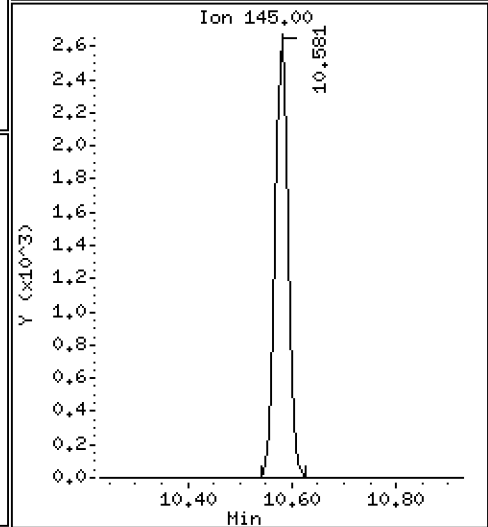
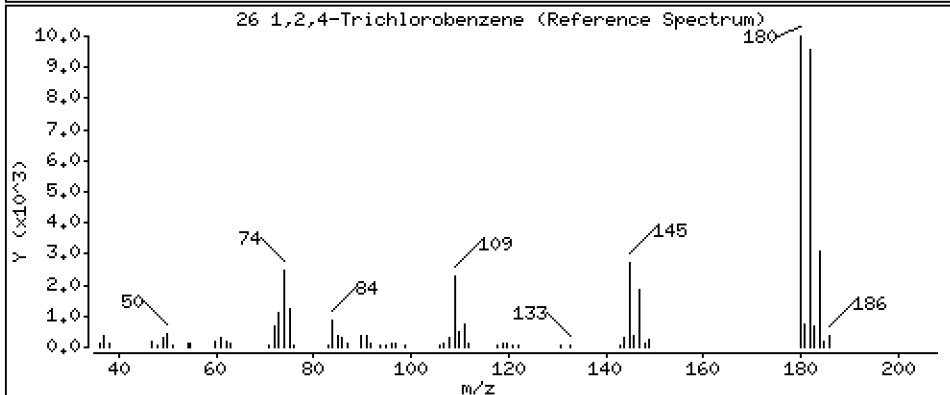
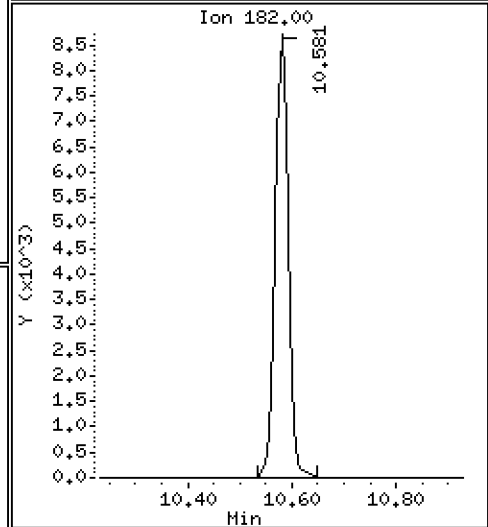
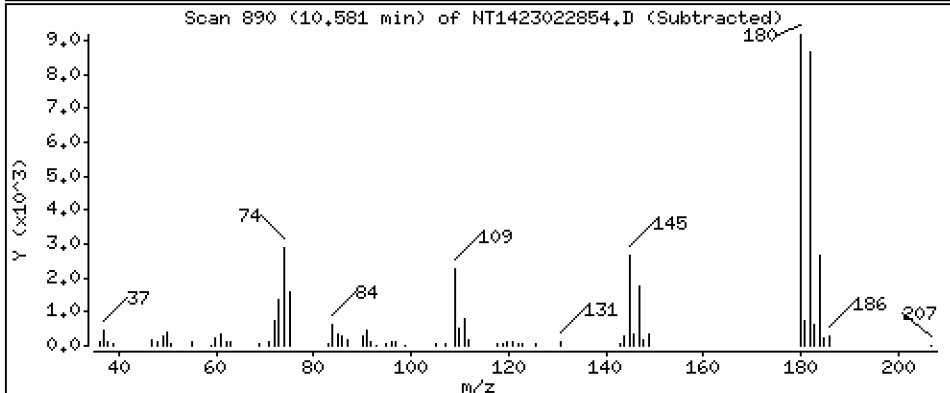
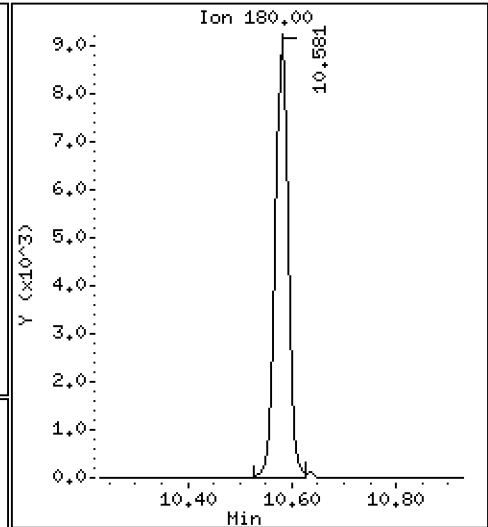
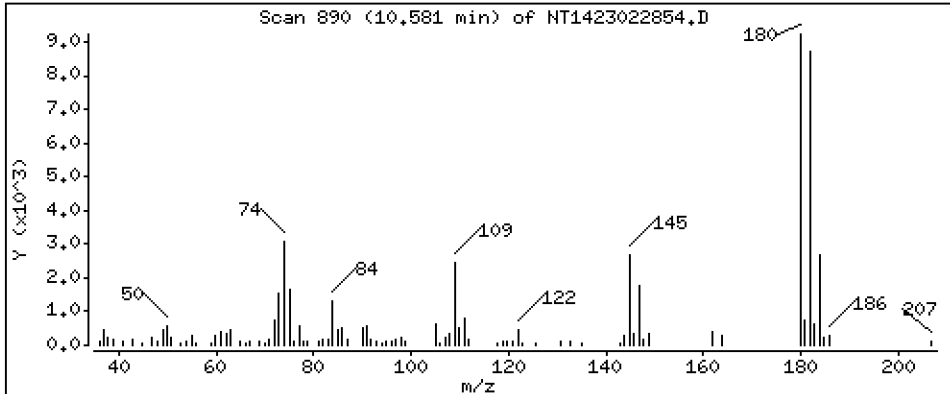
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 3,986 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

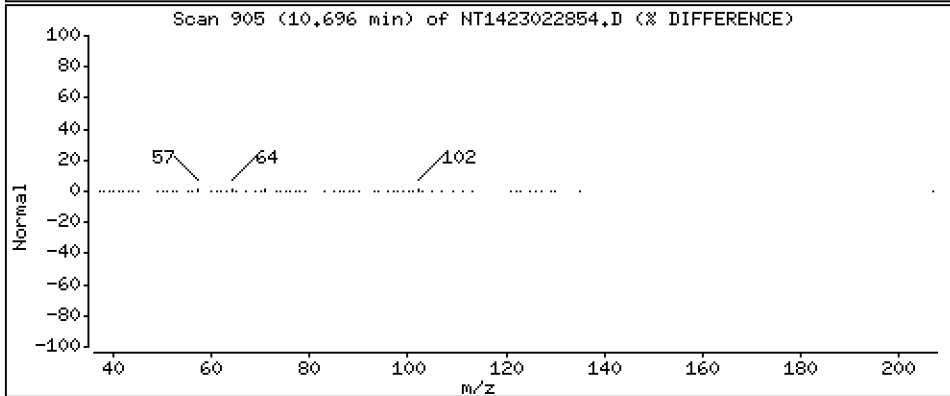
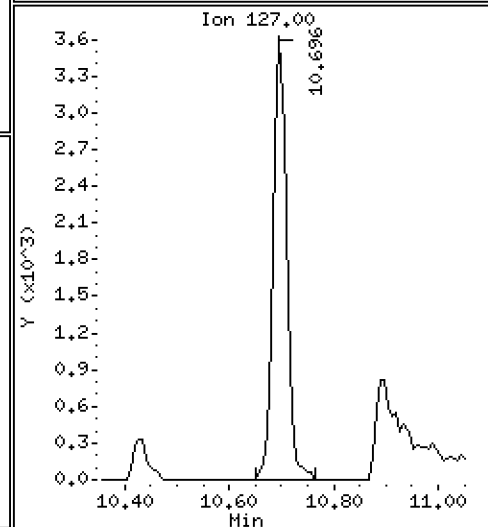
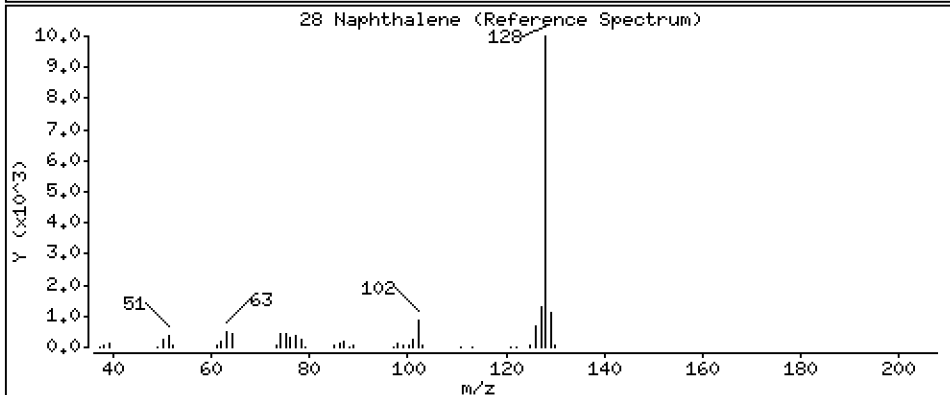
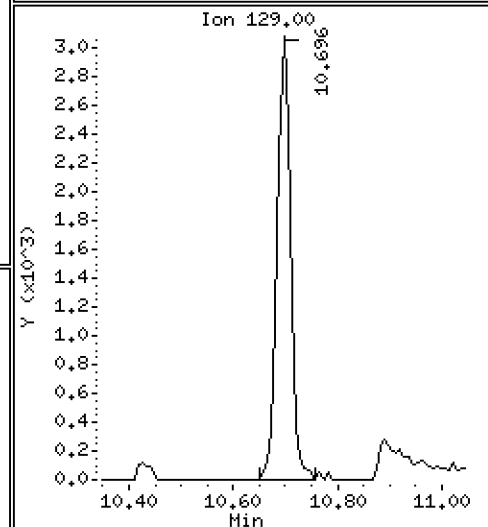
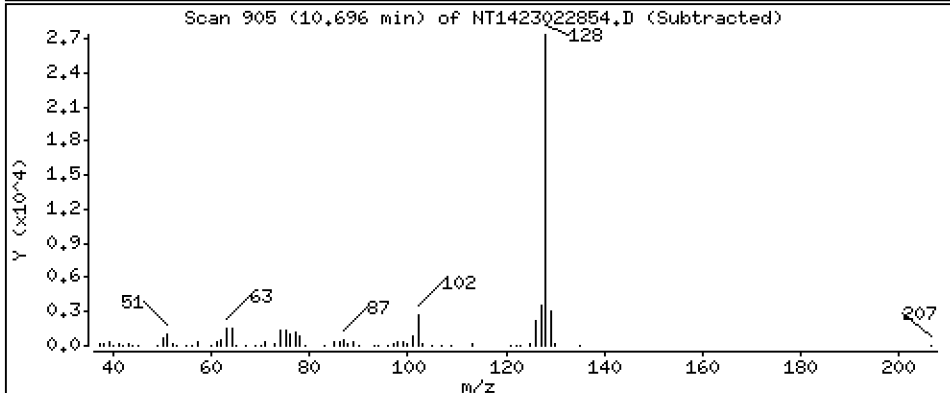
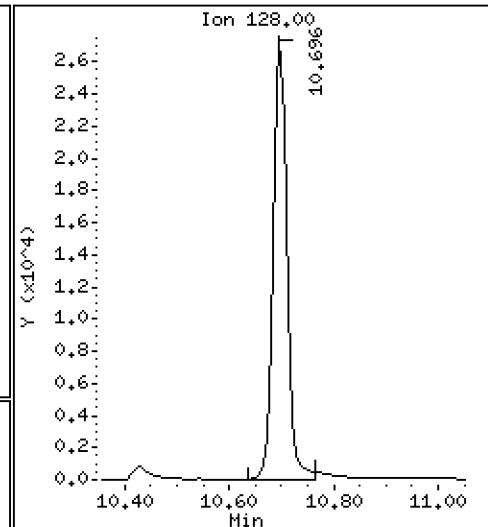
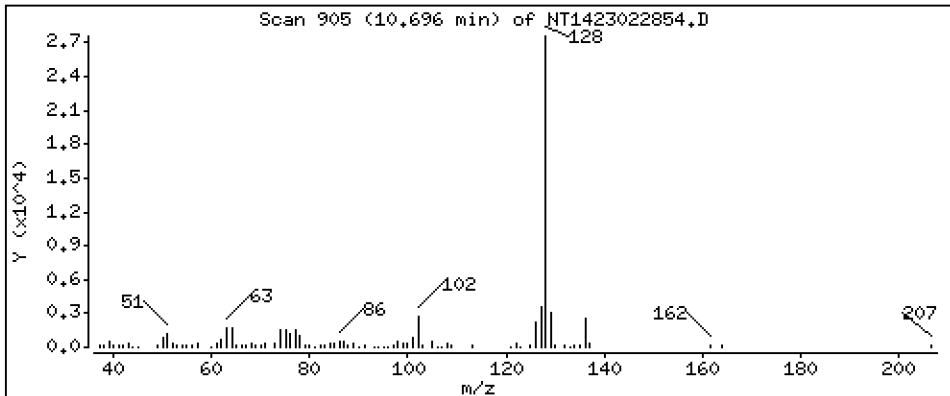
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,590 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

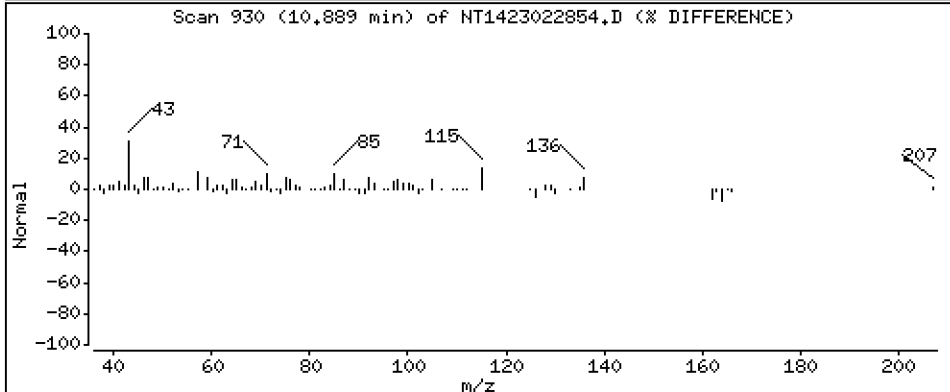
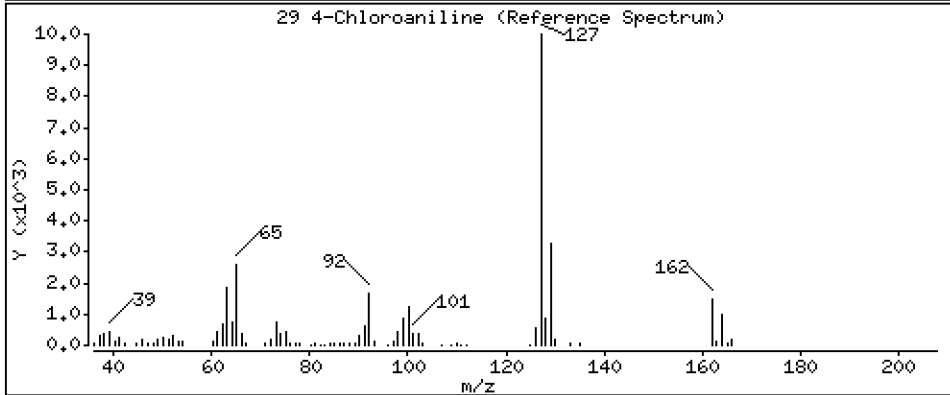
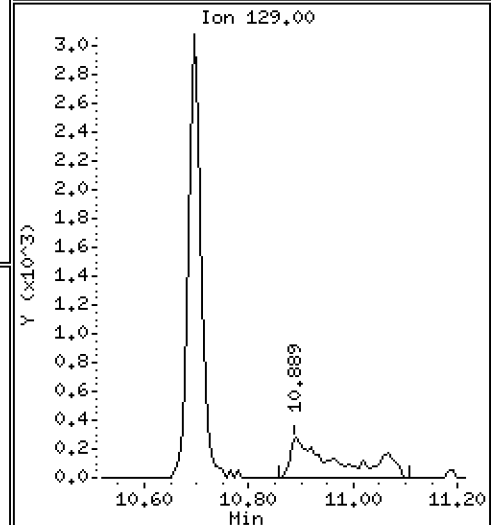
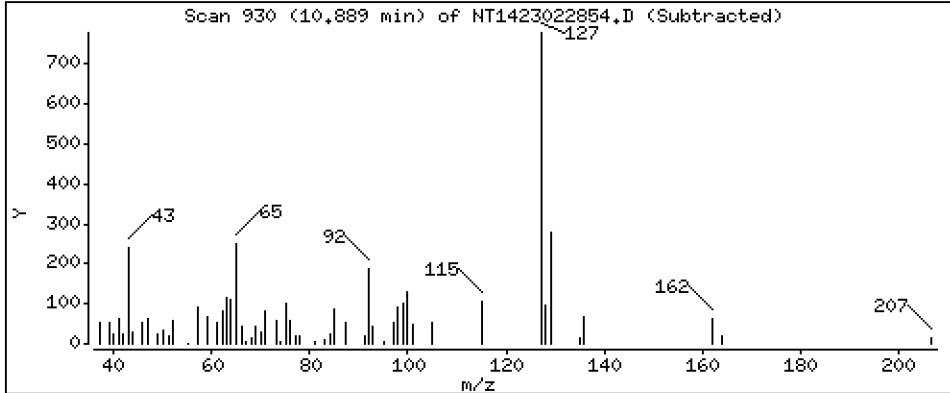
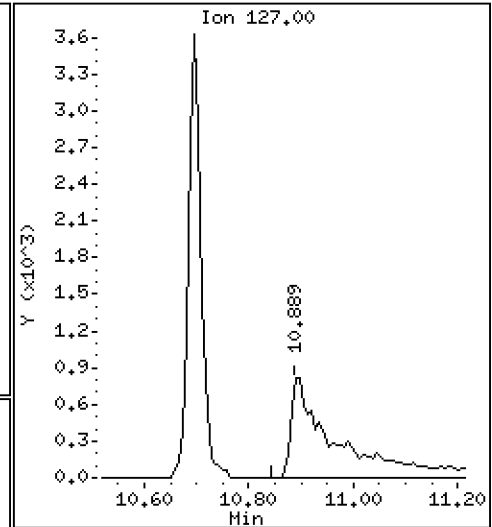
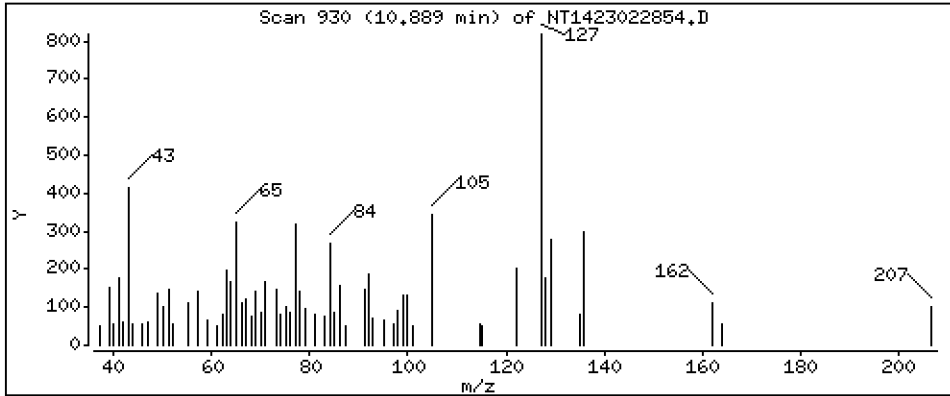
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

29 4-Chloroaniline

Concentration: 1.121 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

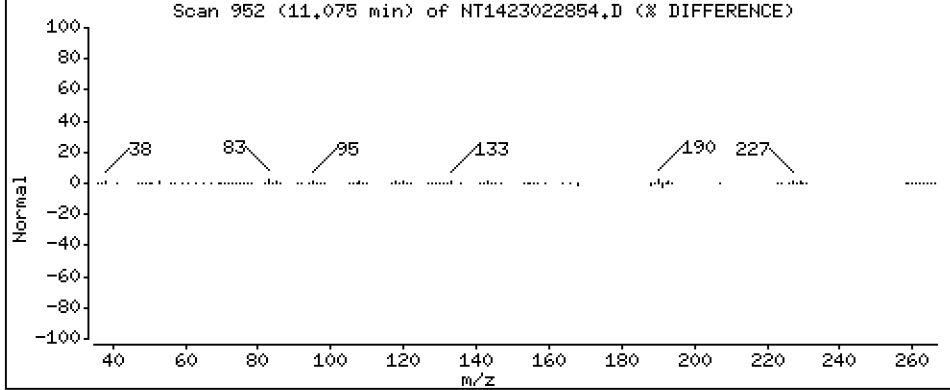
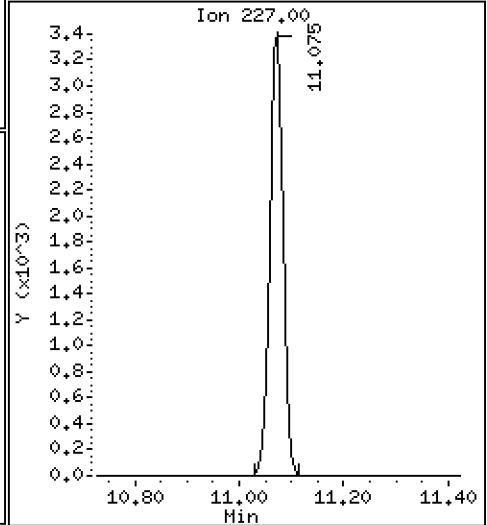
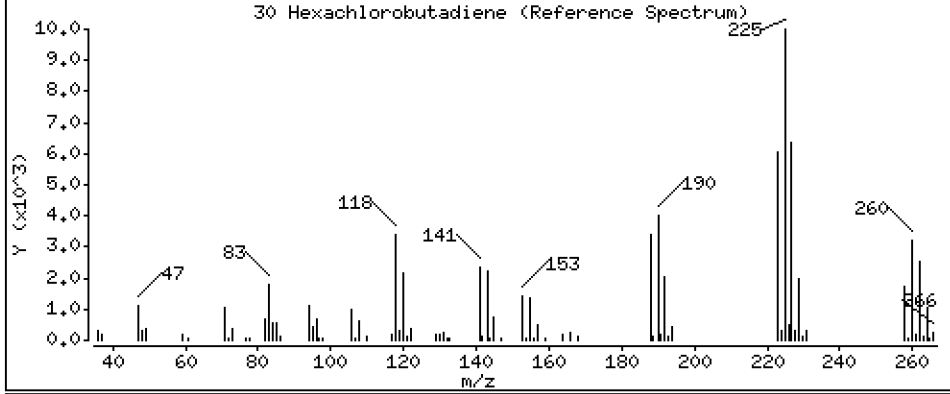
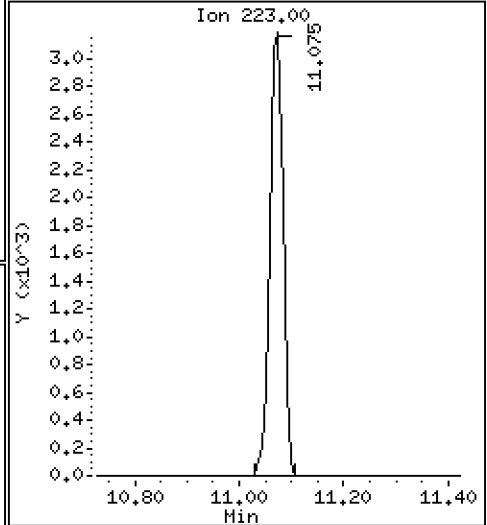
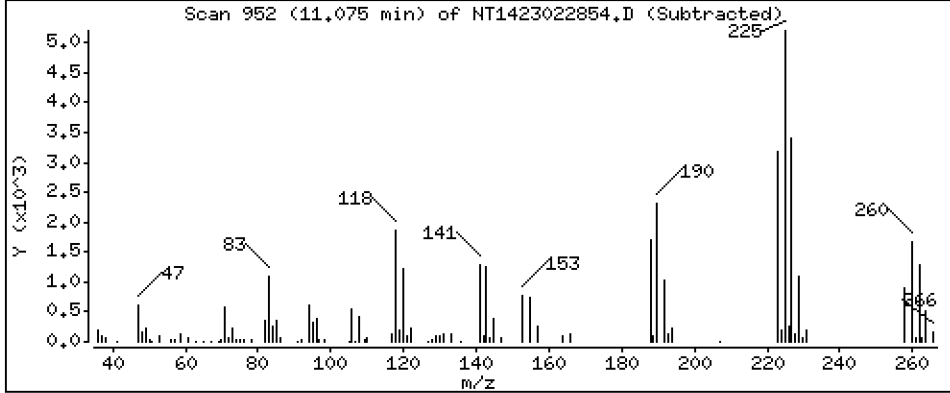
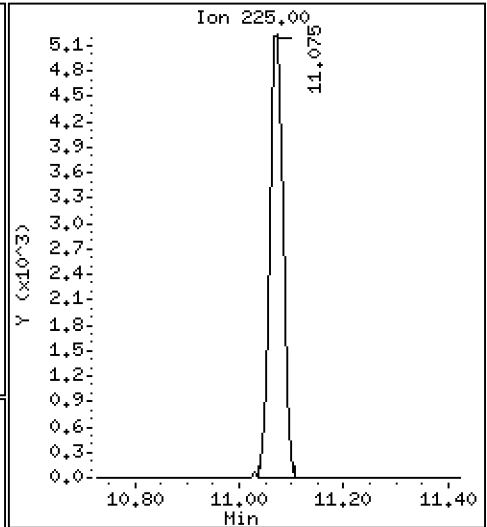
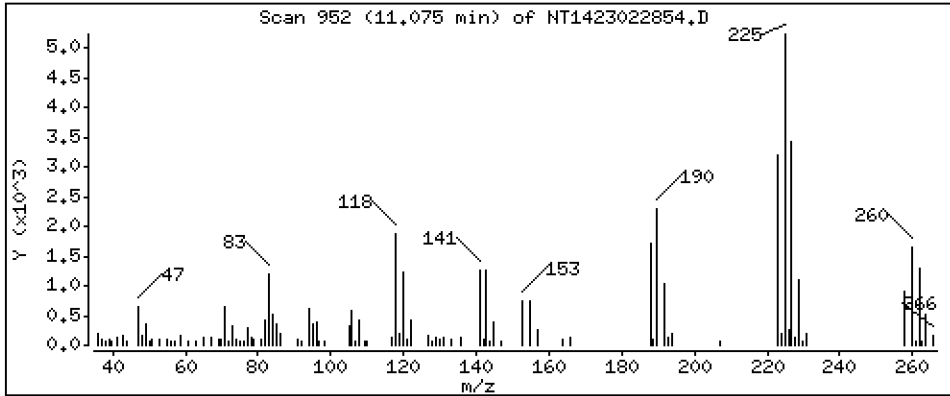
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

30 Hexachlorobutadiene

Concentration: 3,879 ug/mL





Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

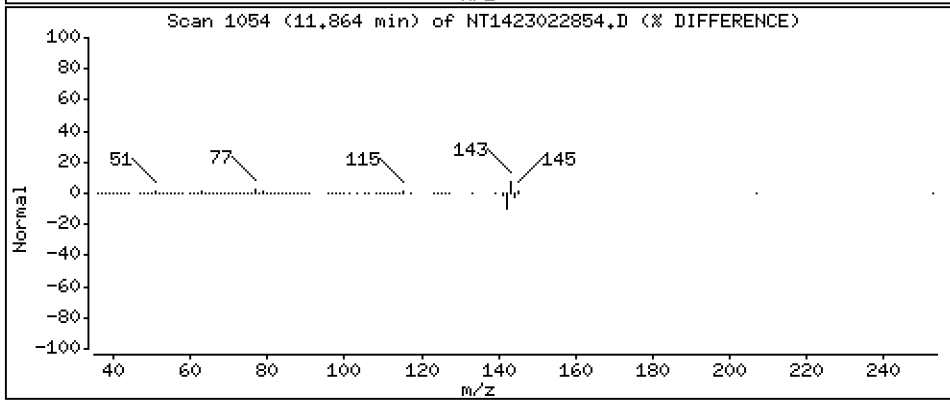
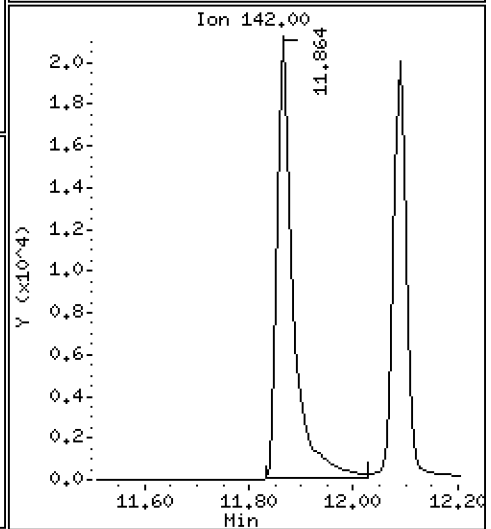
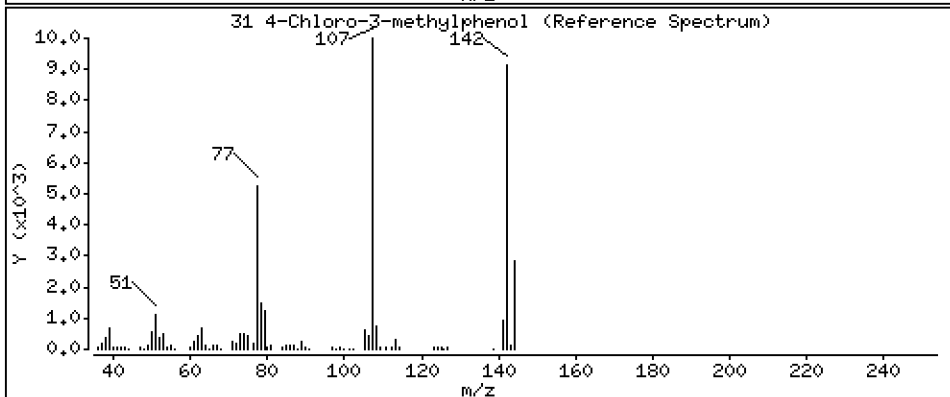
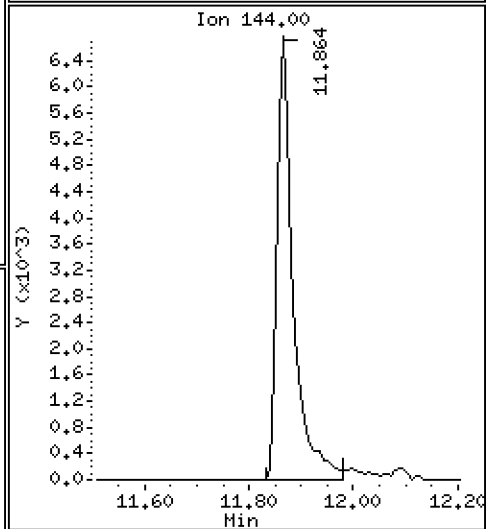
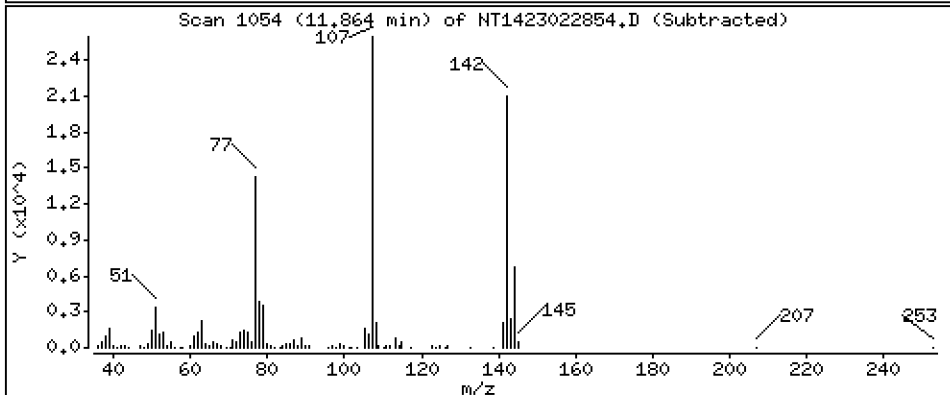
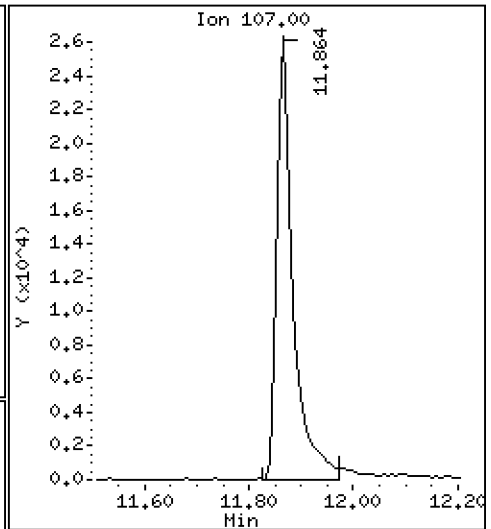
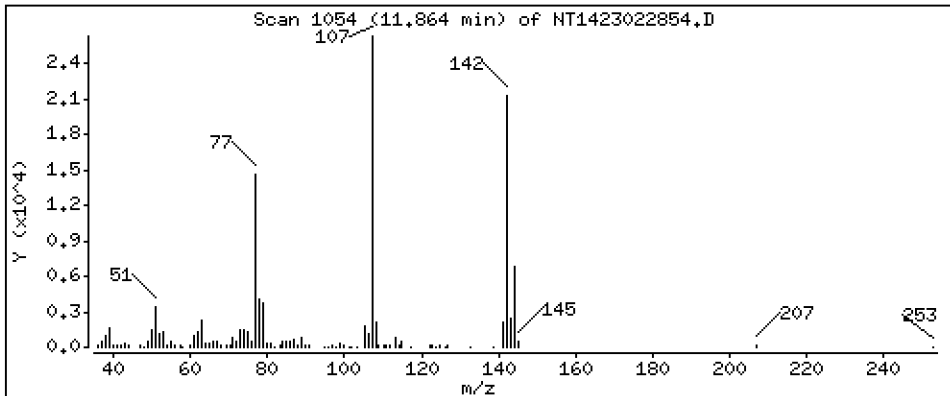
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 18.93 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

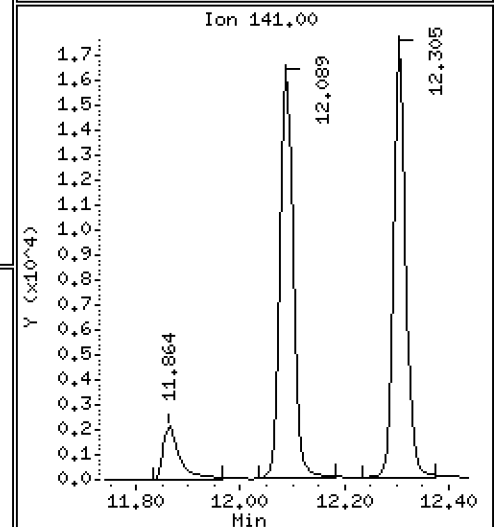
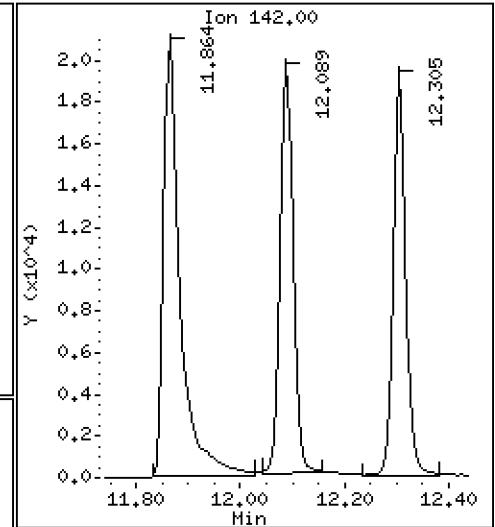
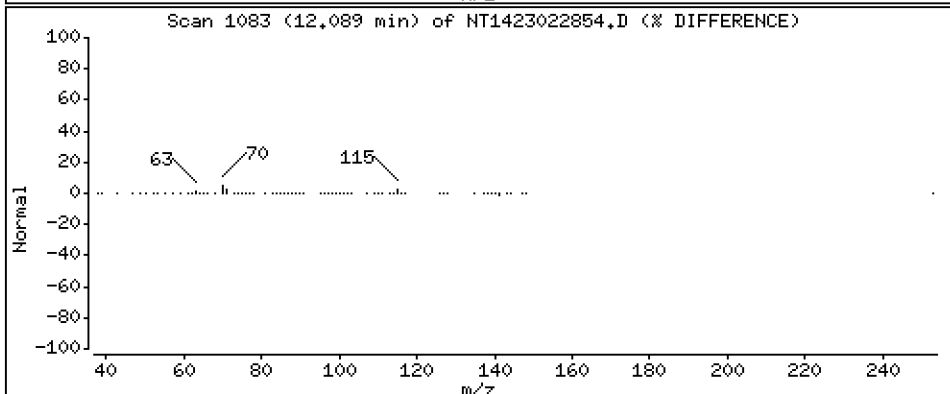
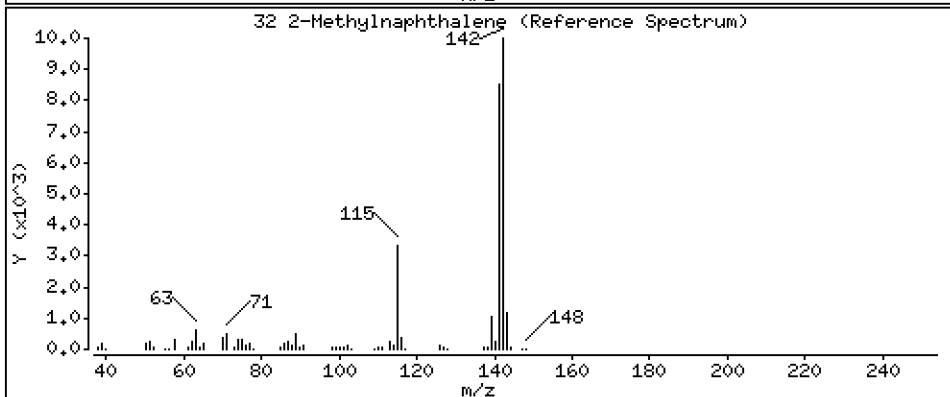
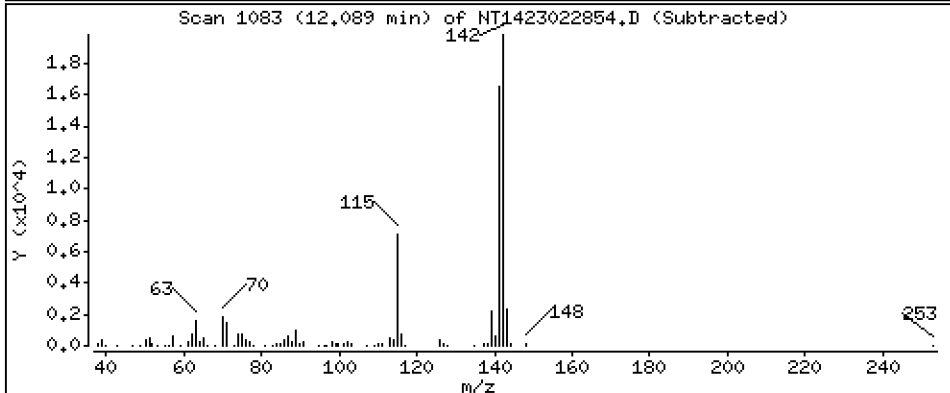
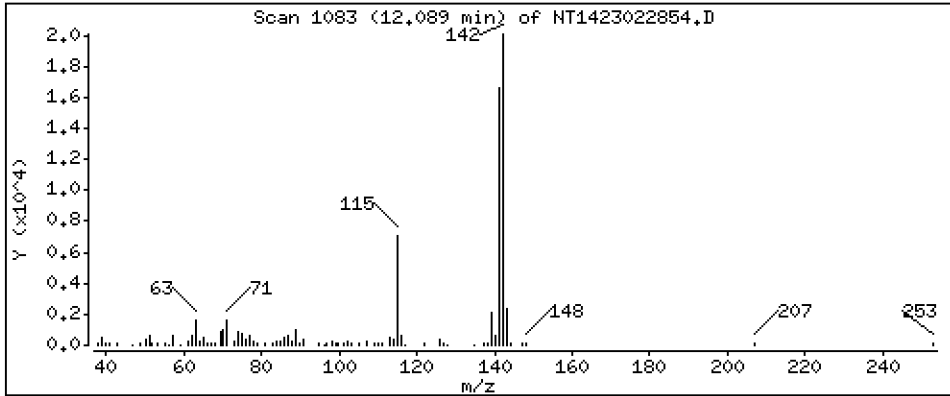
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,233 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

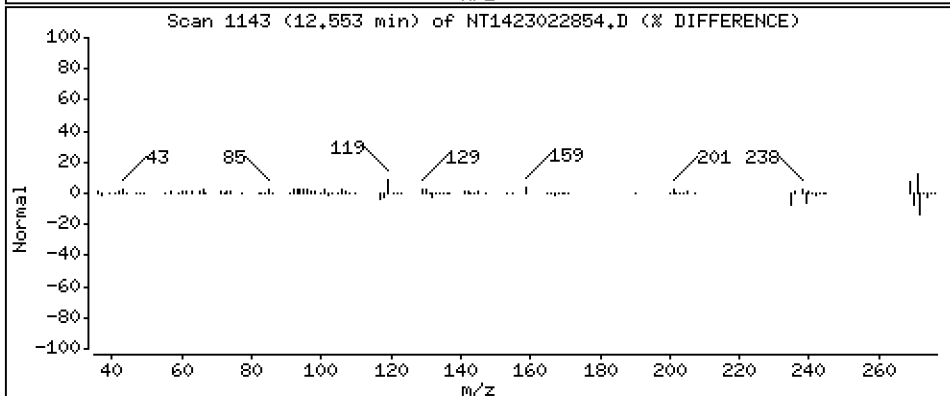
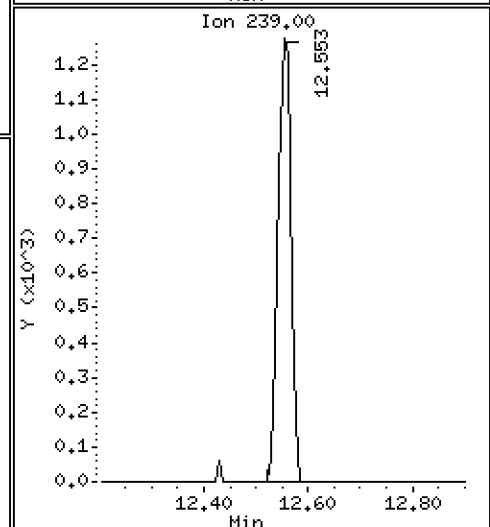
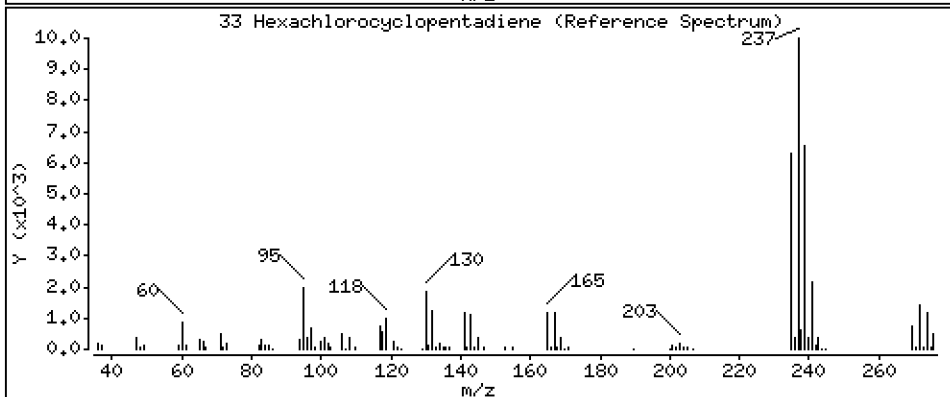
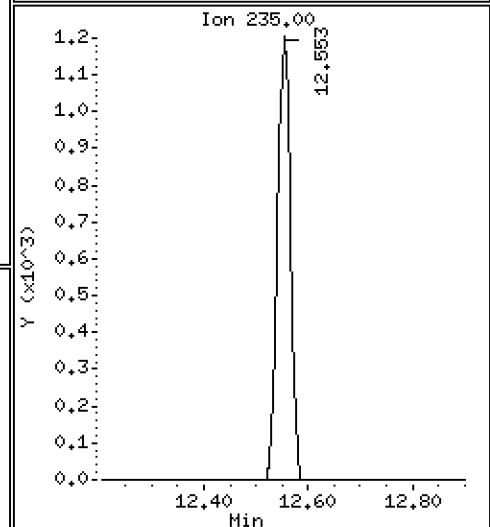
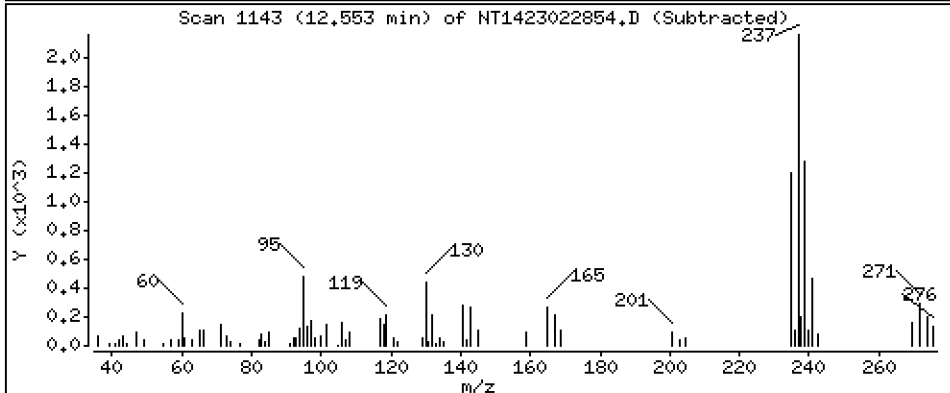
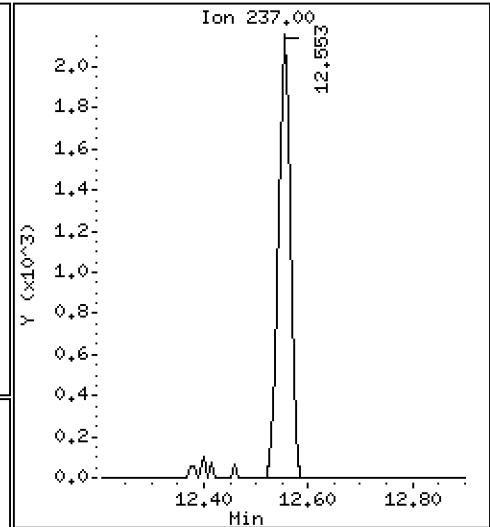
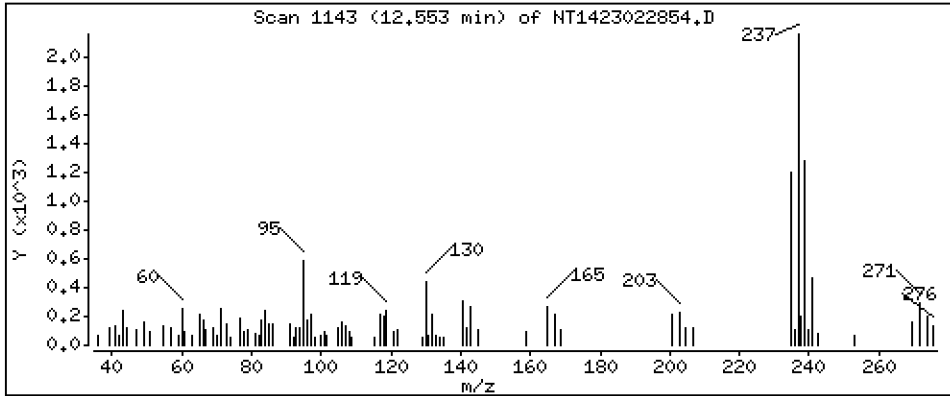
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

33 Hexachlorocyclopentadiene

Concentration: 1.414 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

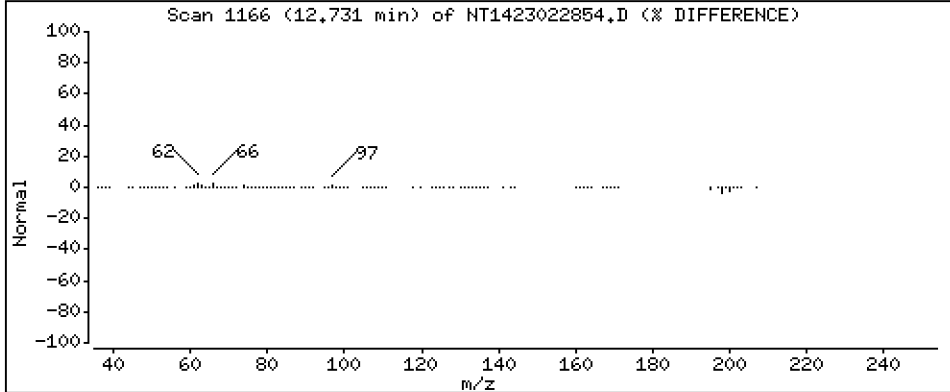
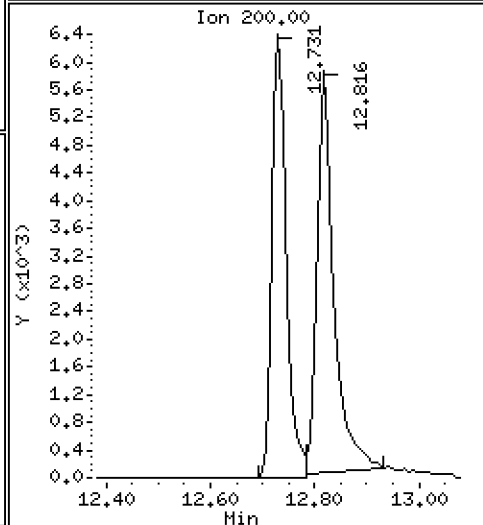
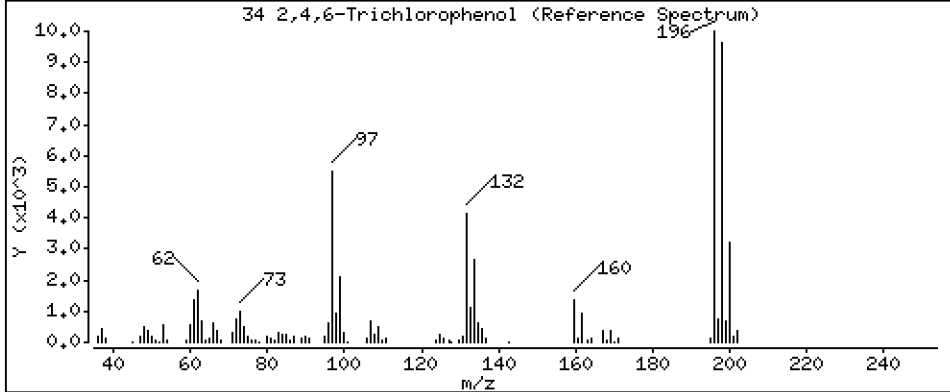
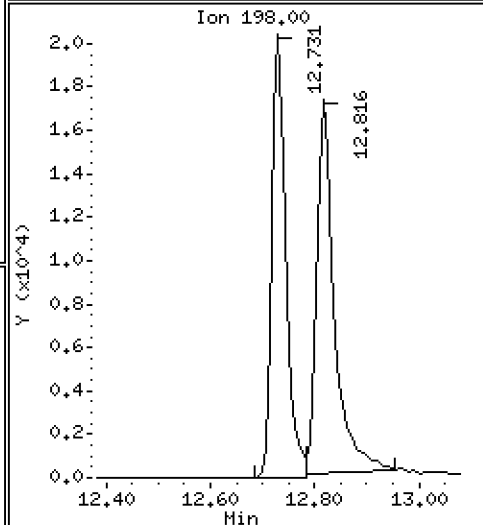
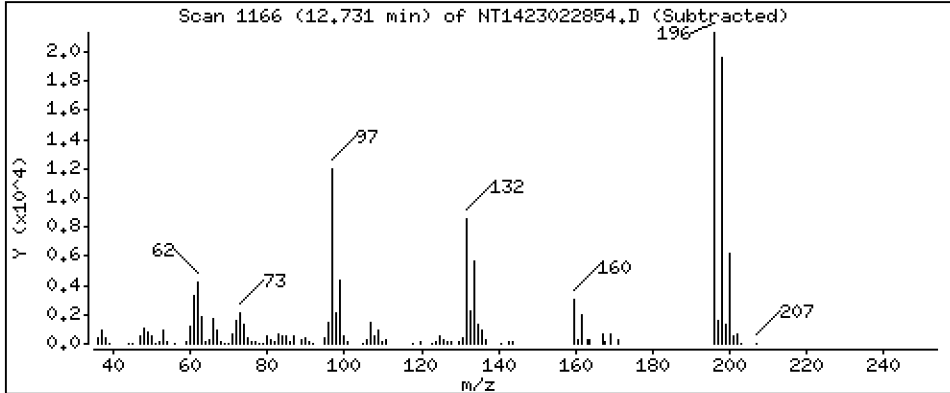
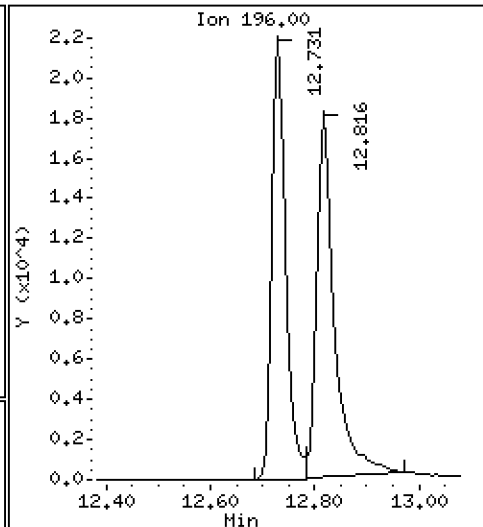
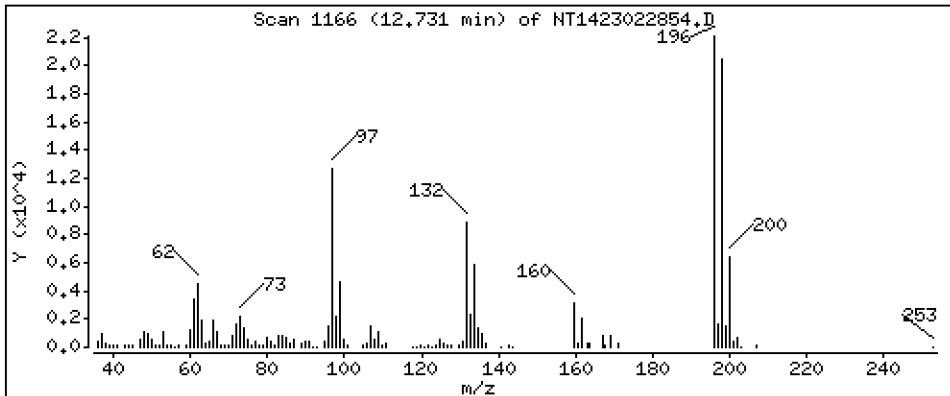
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 18,21 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

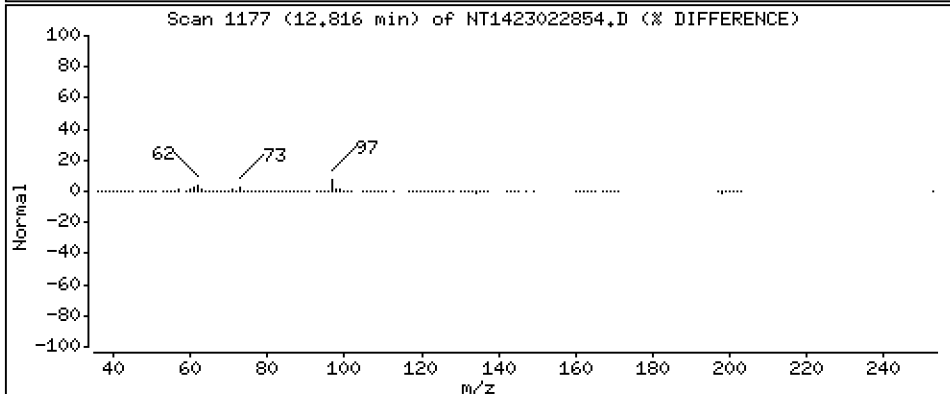
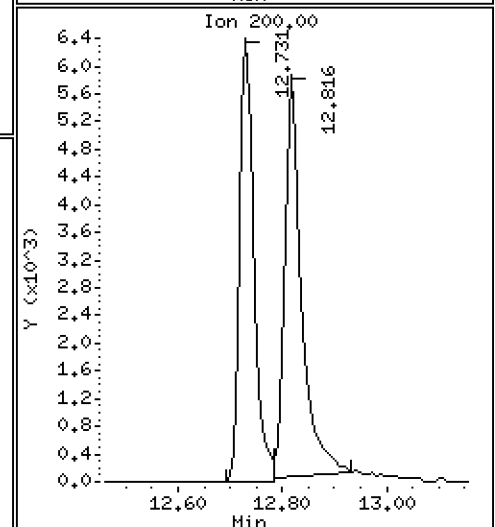
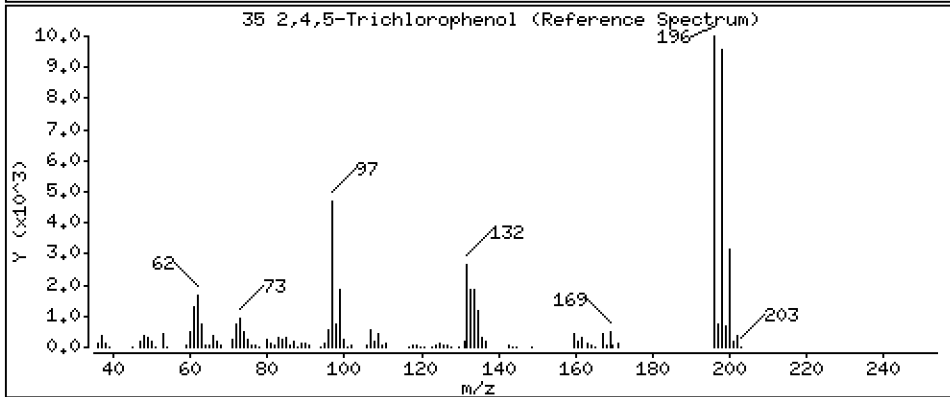
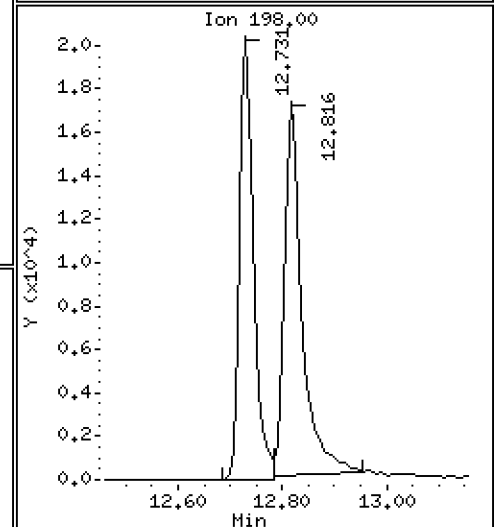
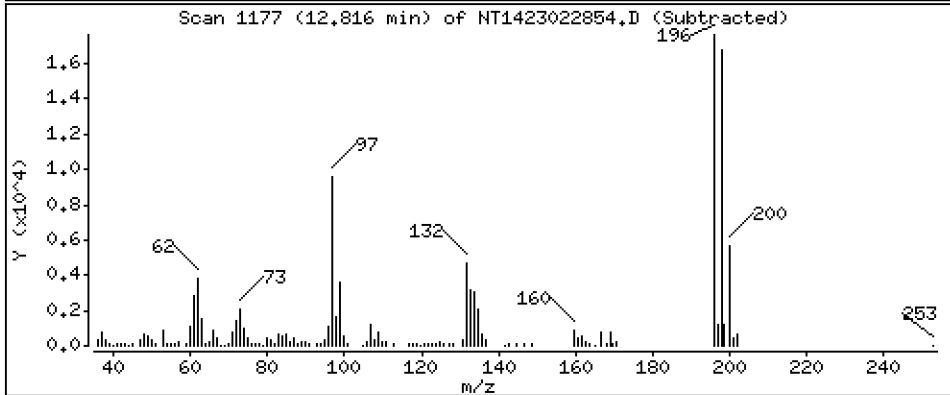
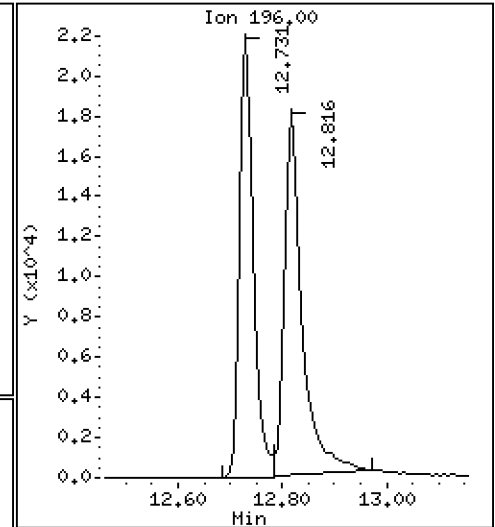
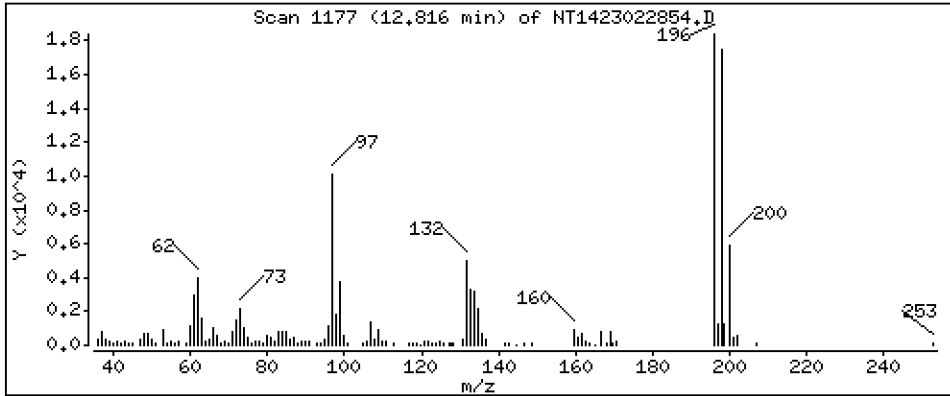
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 18,28 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

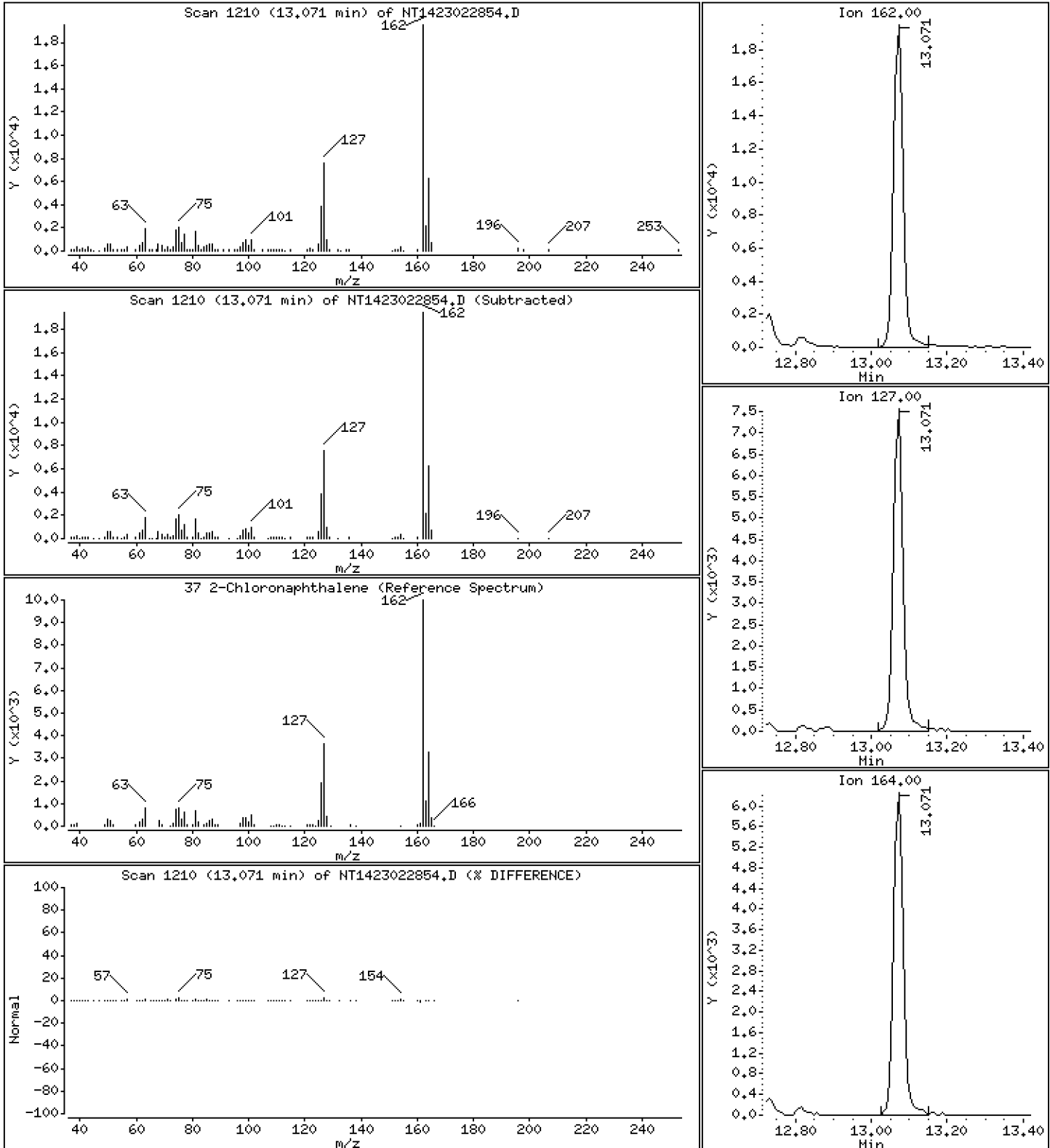
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,765 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

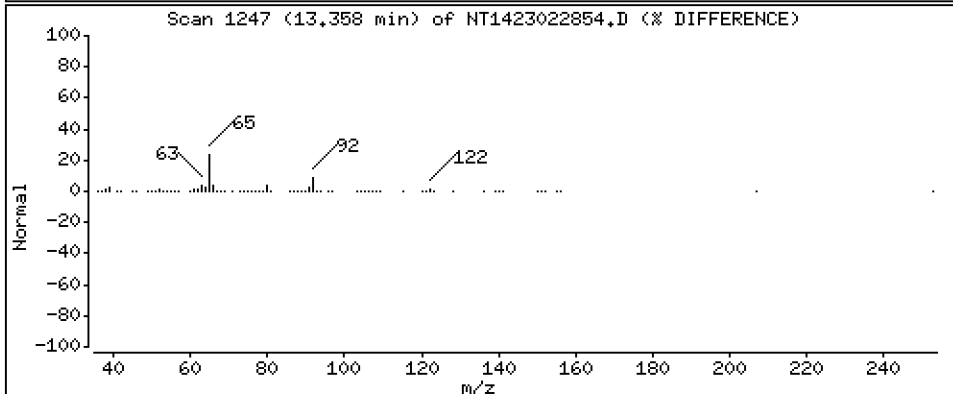
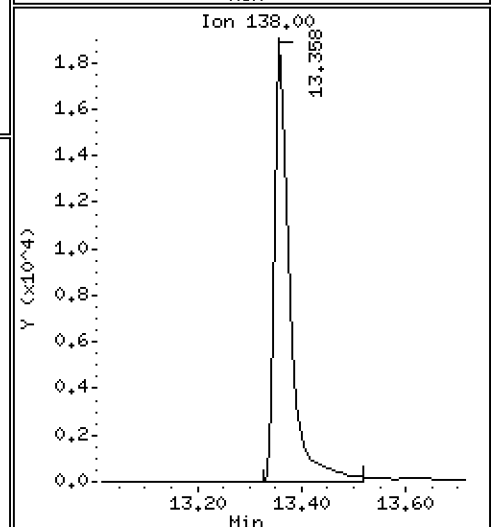
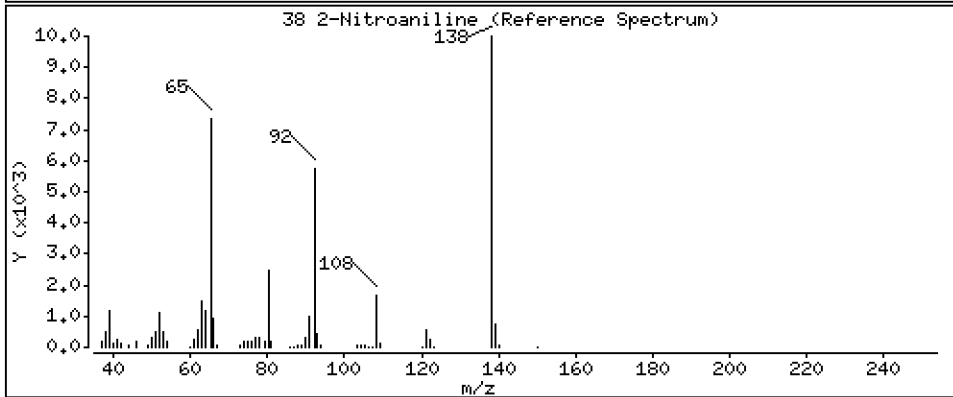
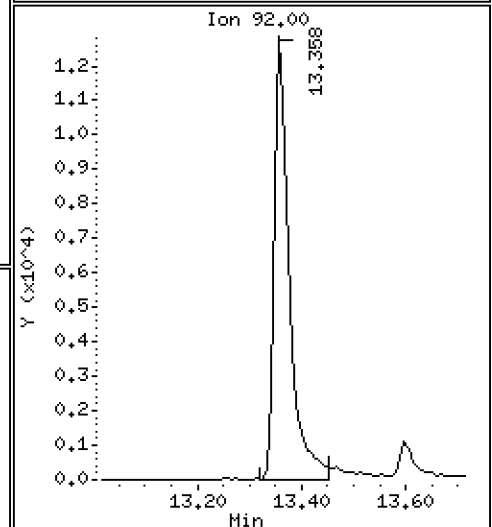
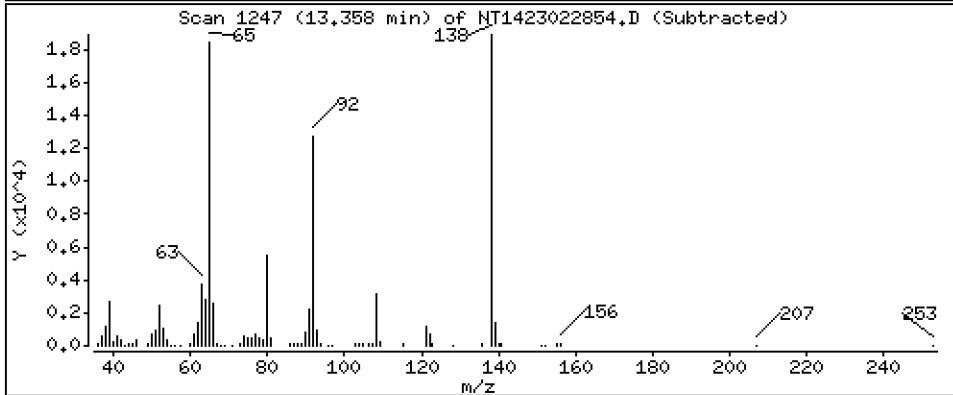
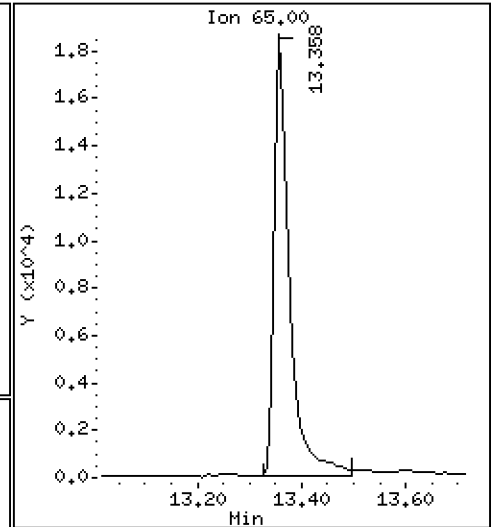
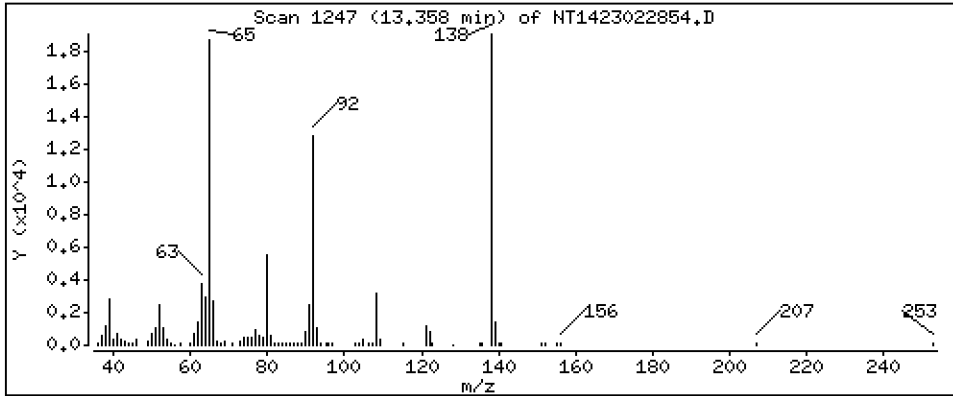
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 20,63 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

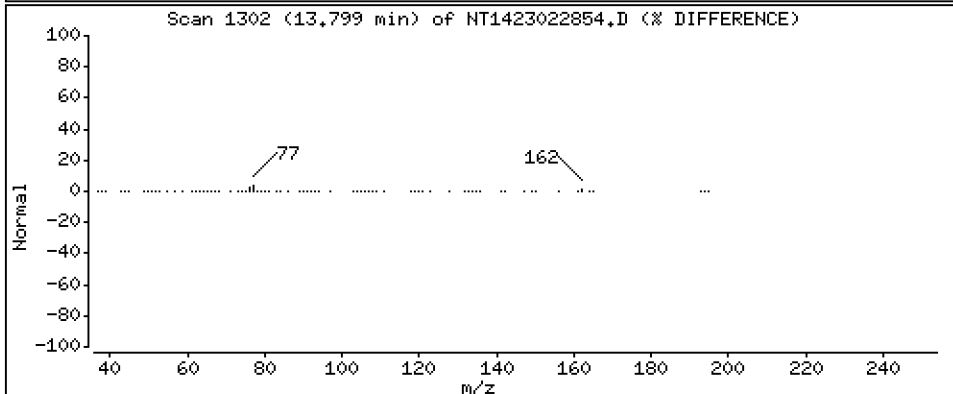
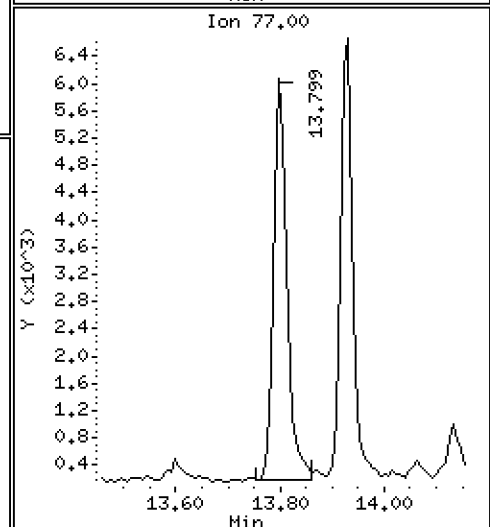
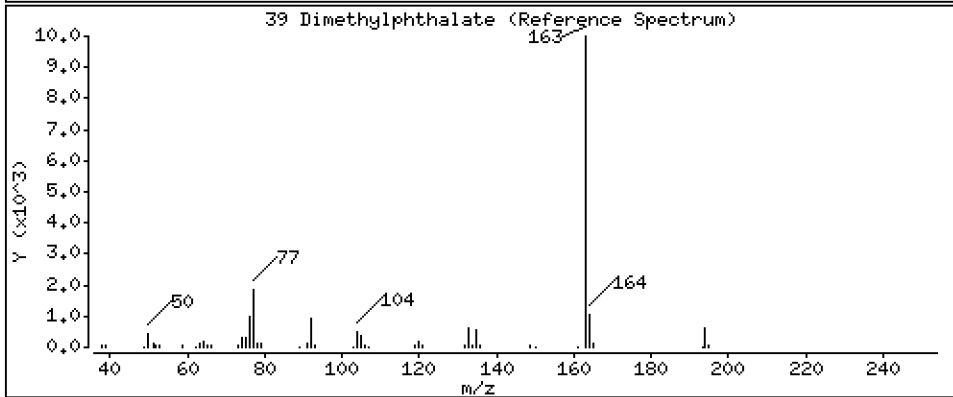
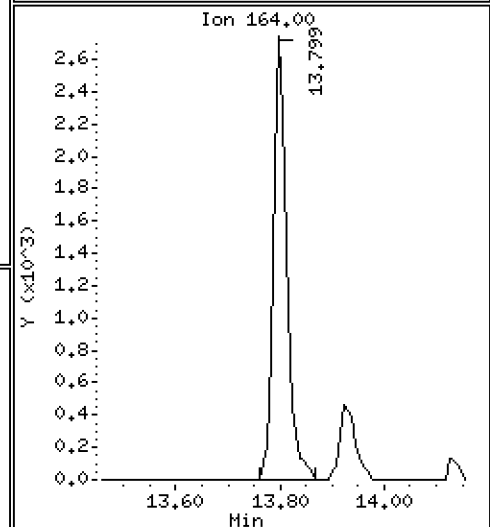
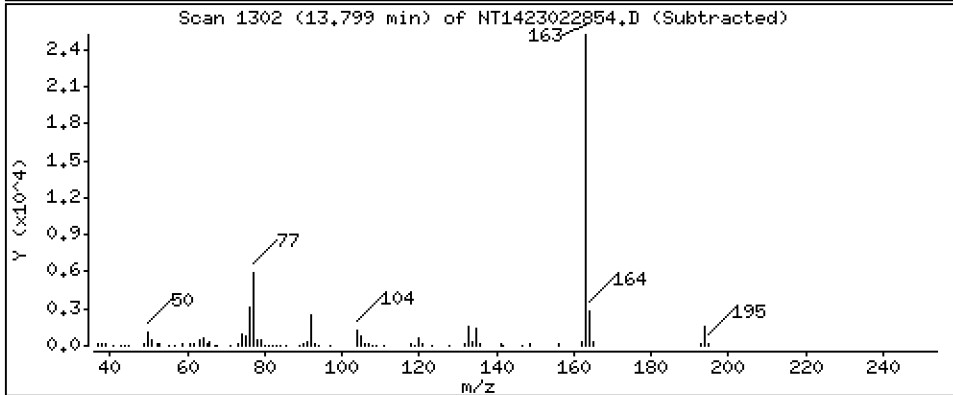
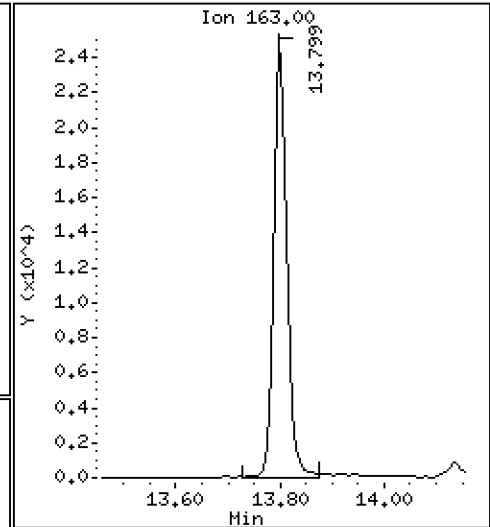
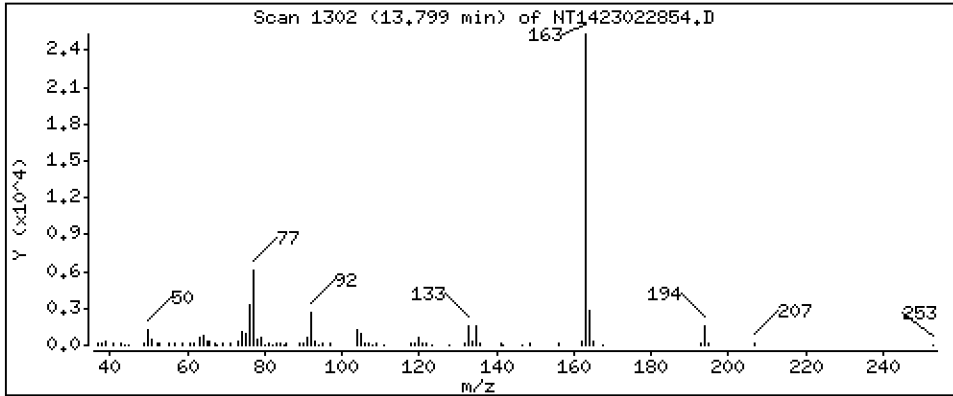
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 6,078 ug/mL





Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

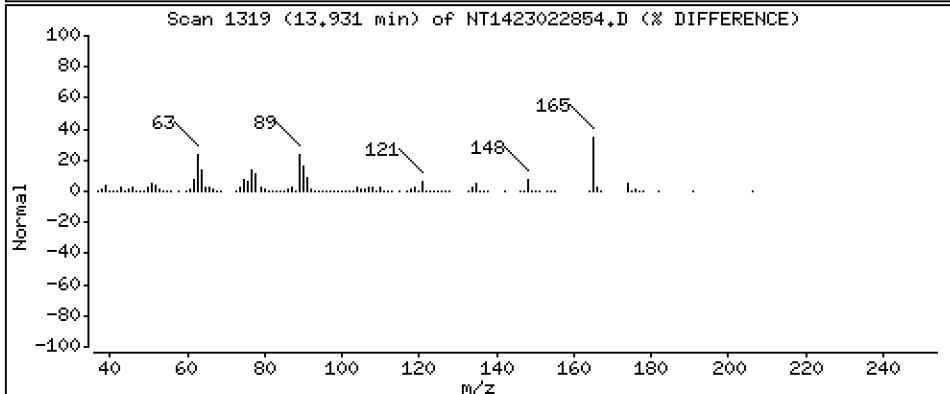
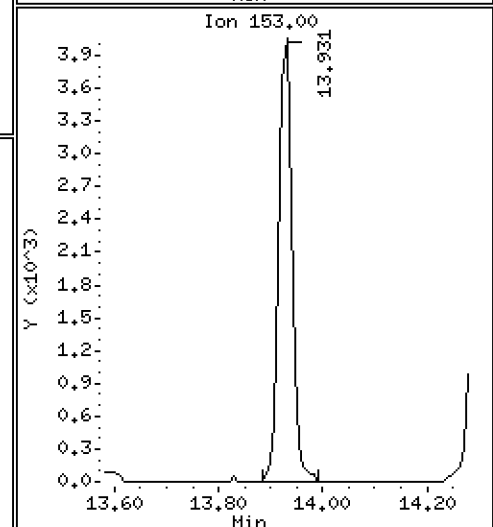
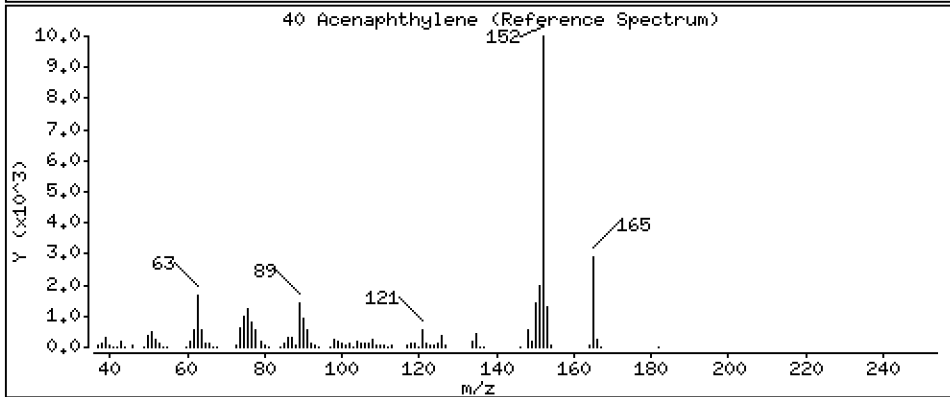
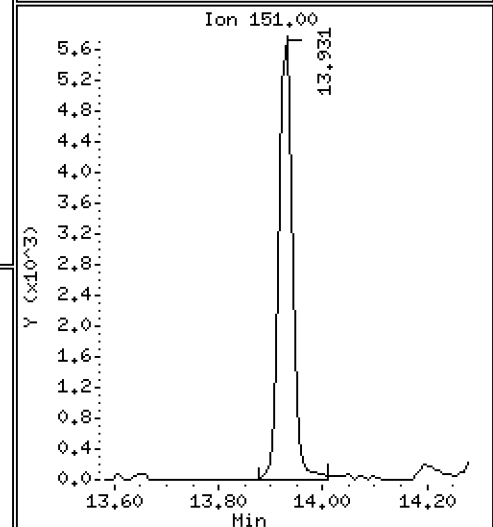
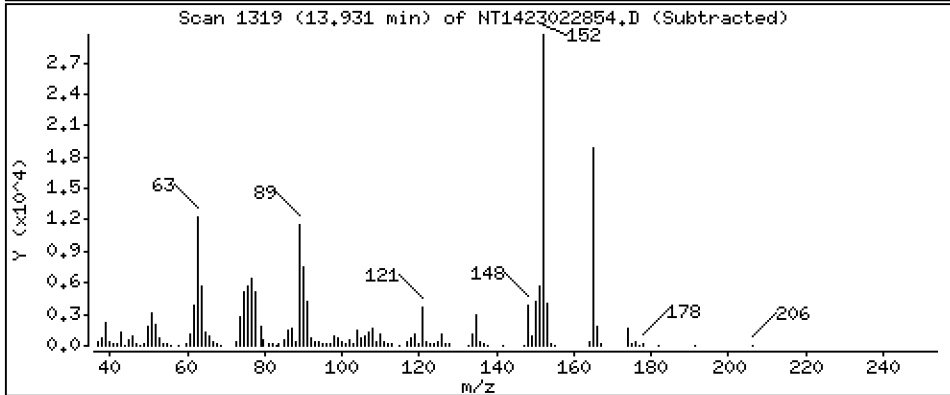
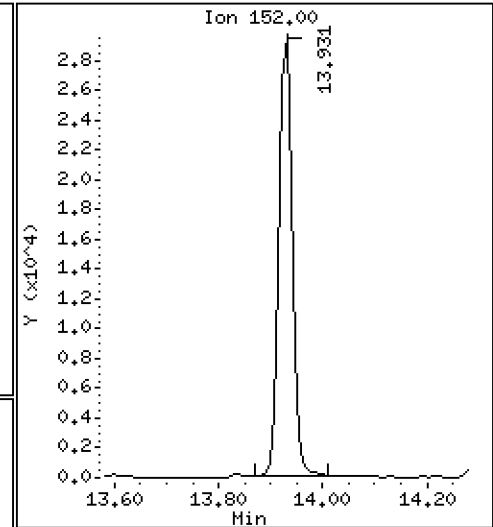
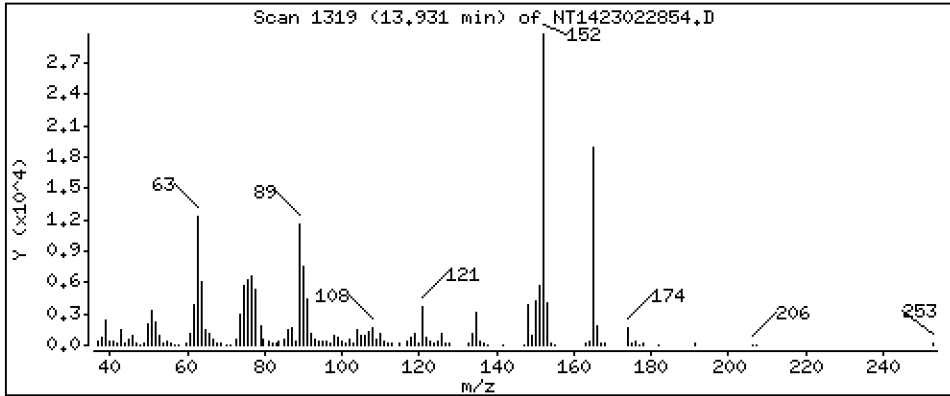
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 5,025 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

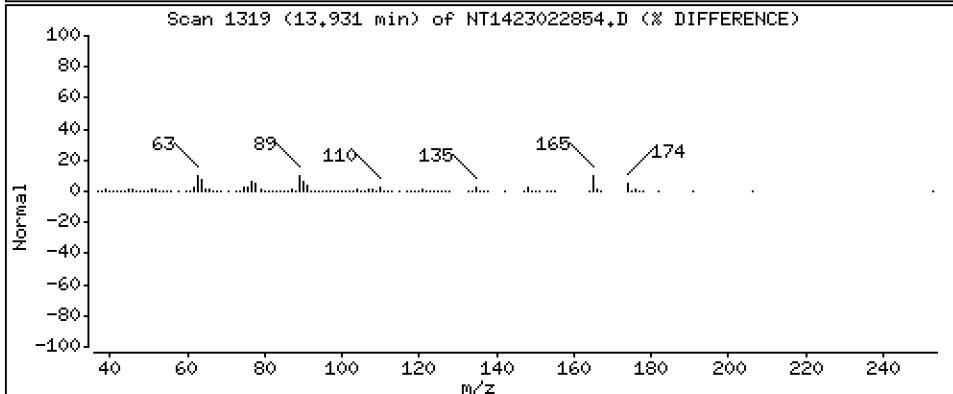
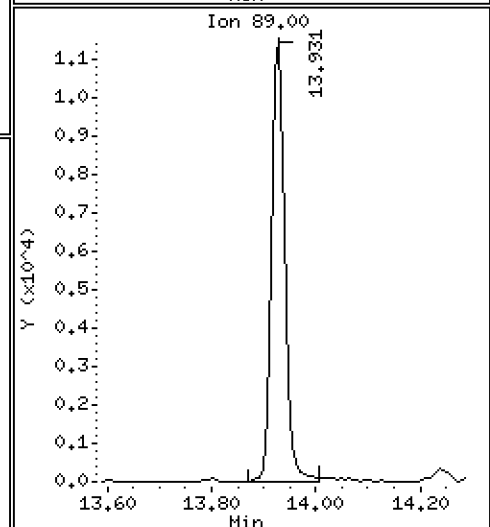
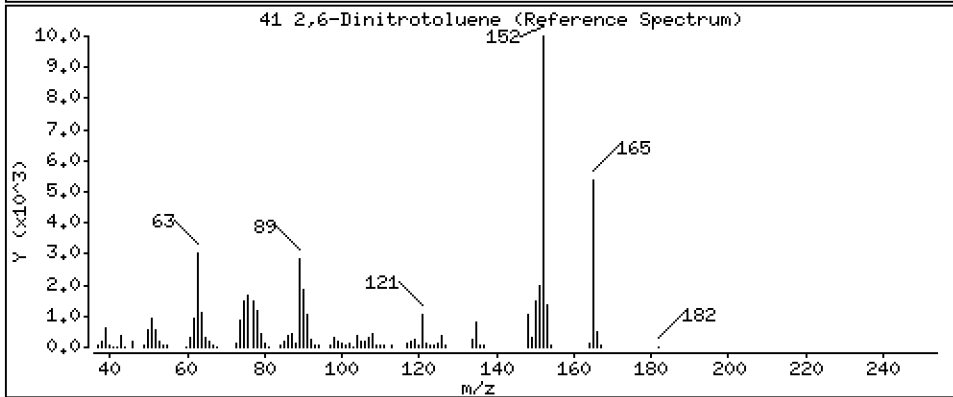
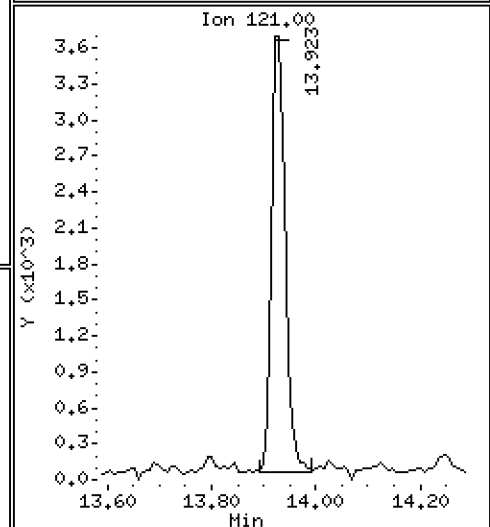
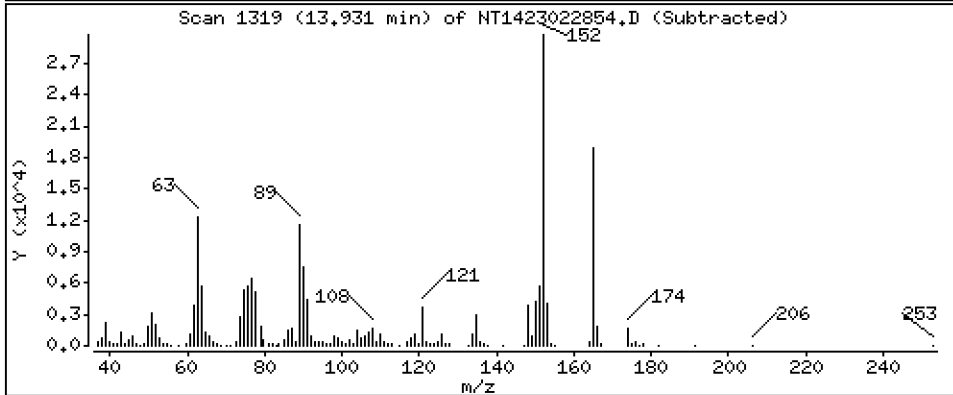
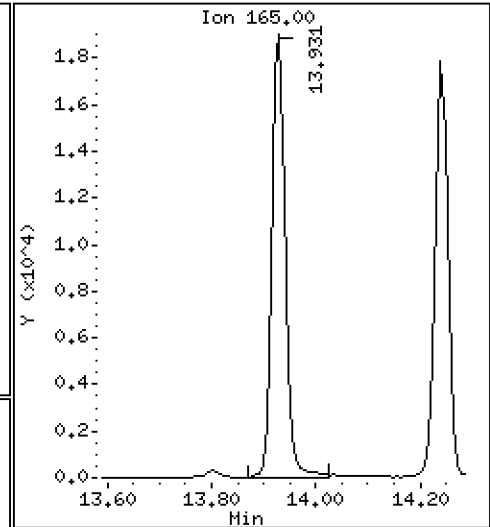
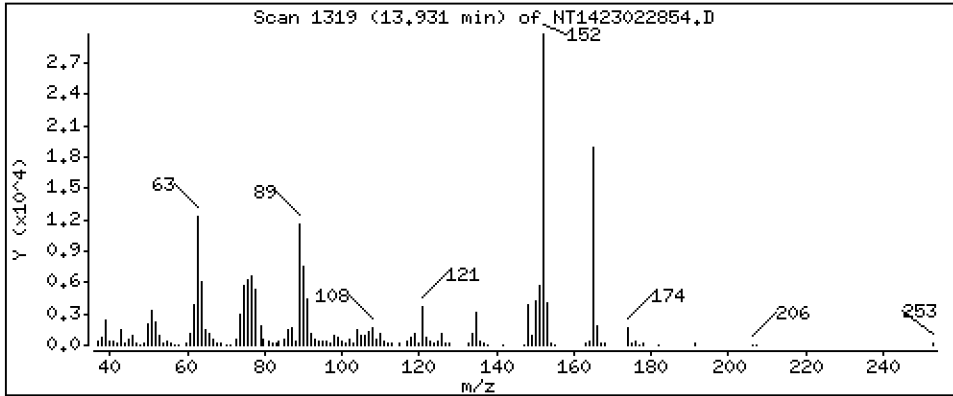
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 20,01 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

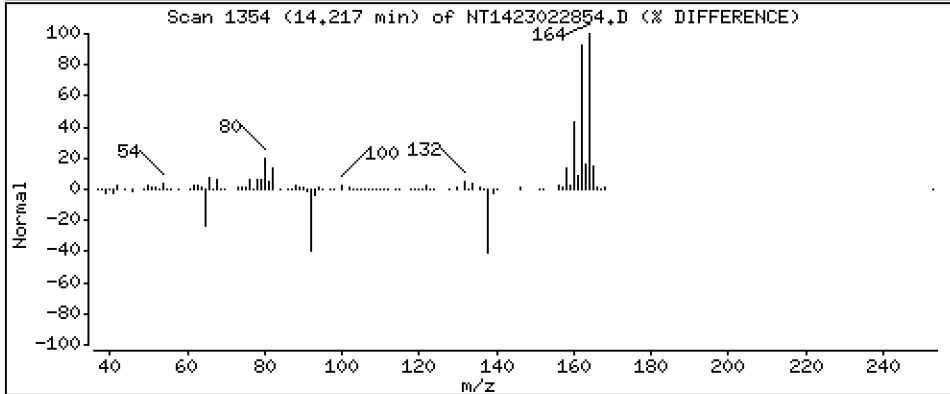
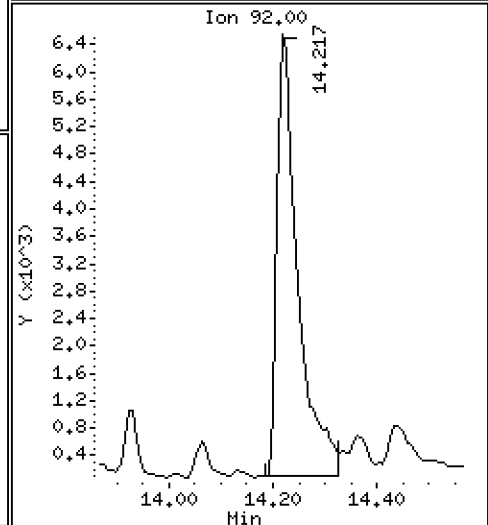
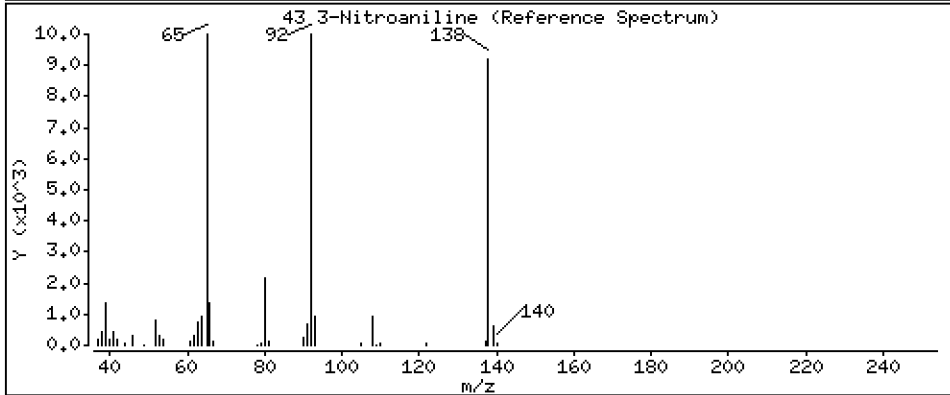
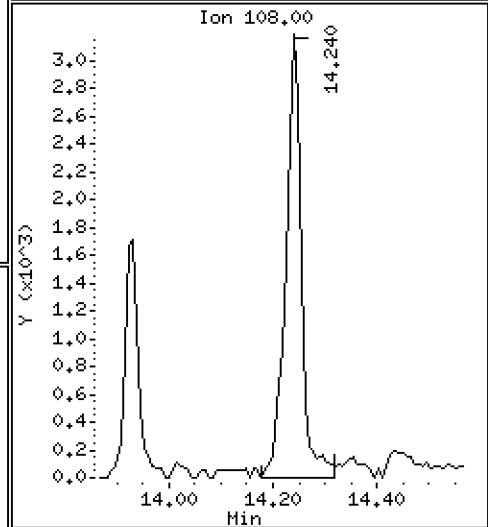
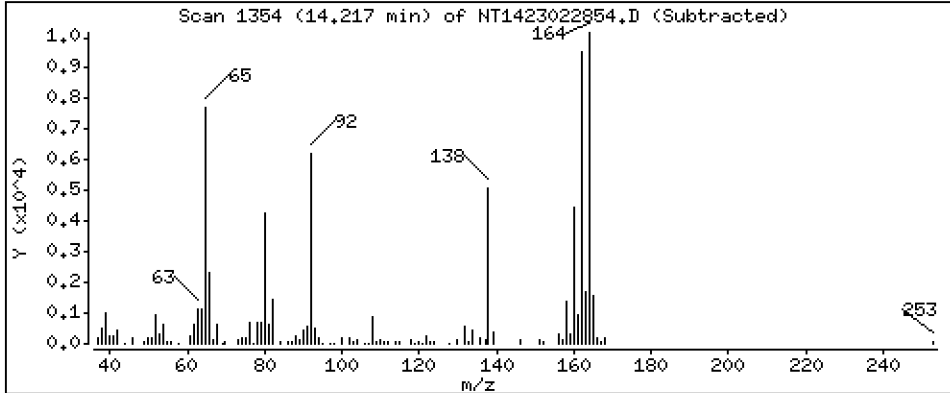
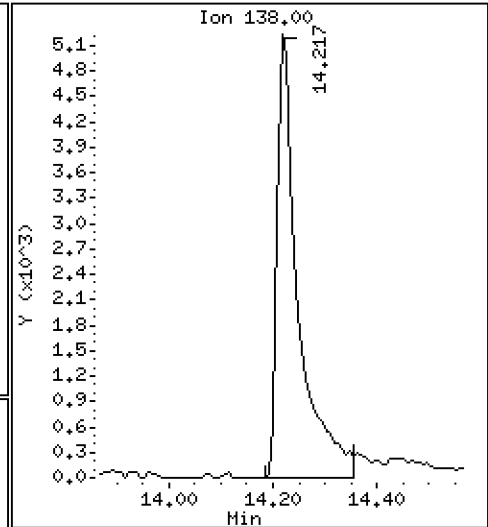
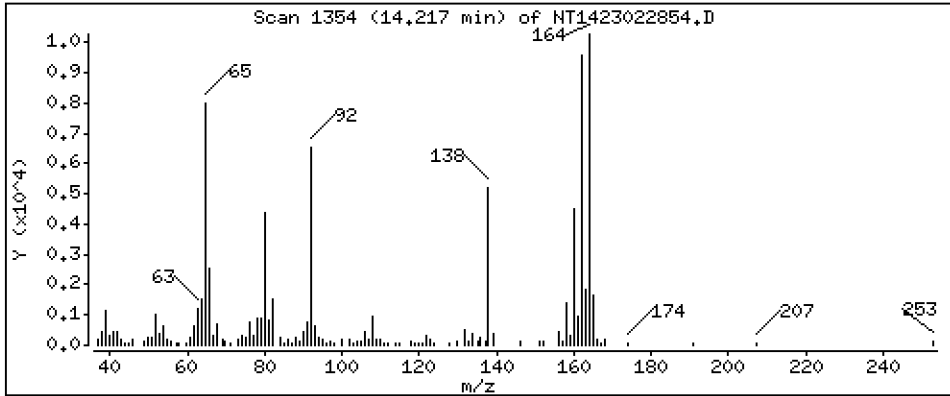
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

43 3-Nitroaniline

Concentration: 8.697 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

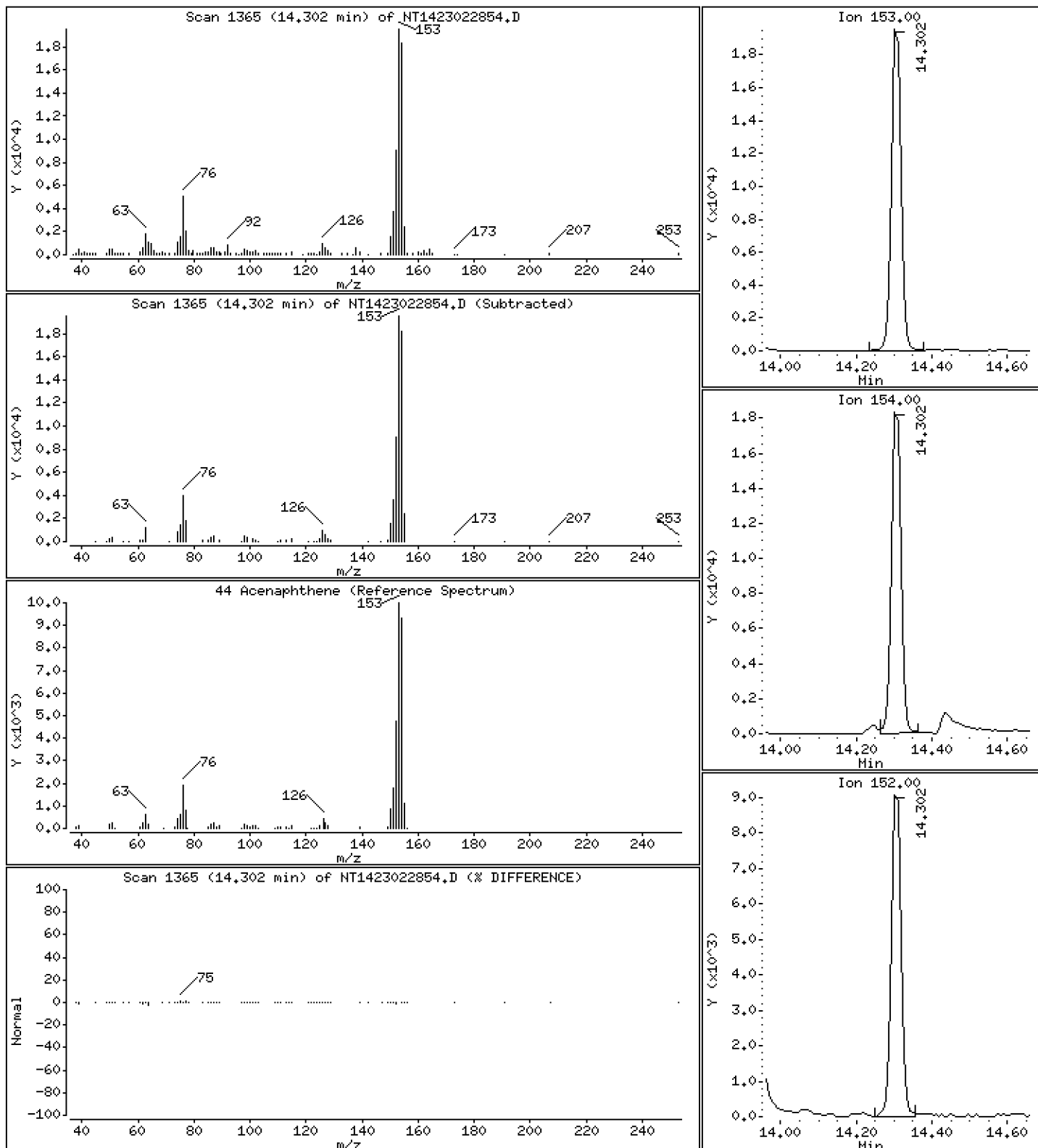
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 5,069 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

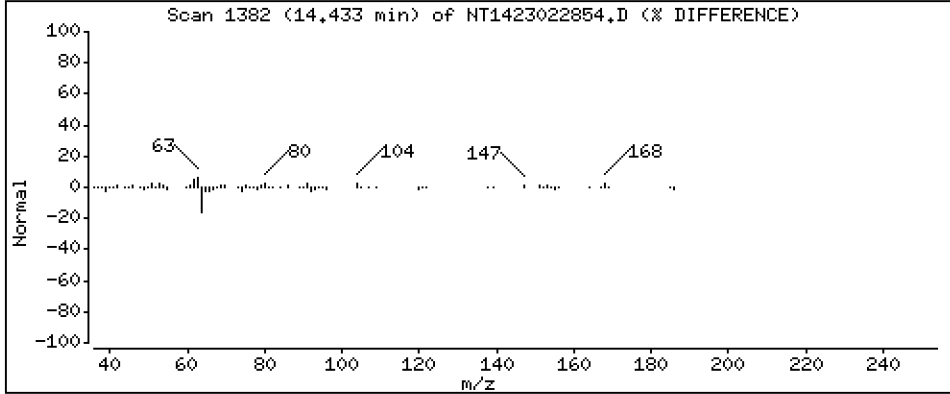
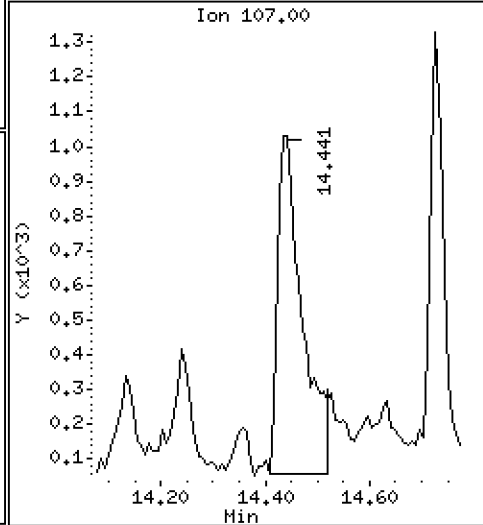
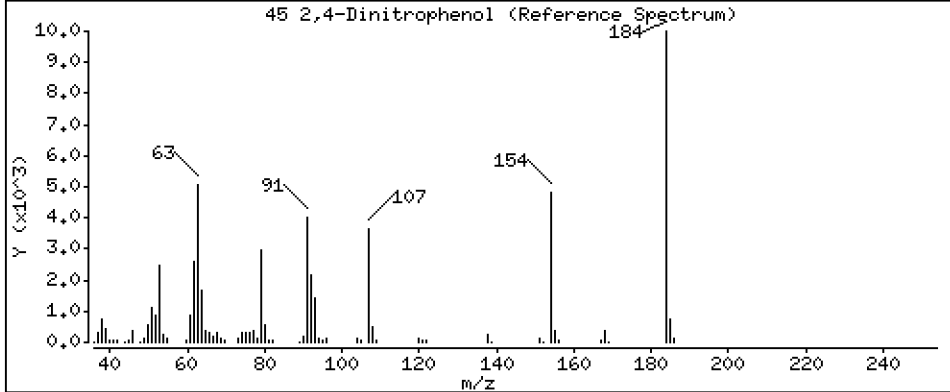
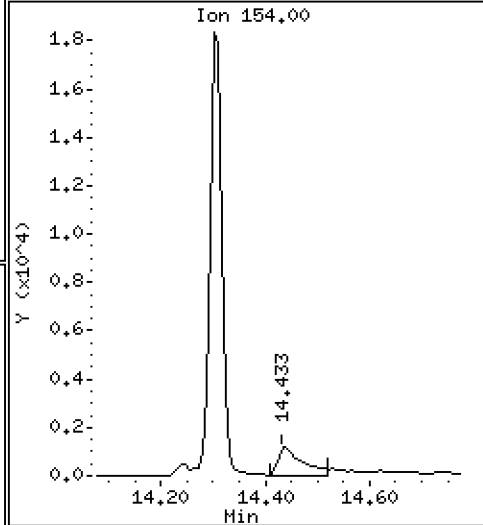
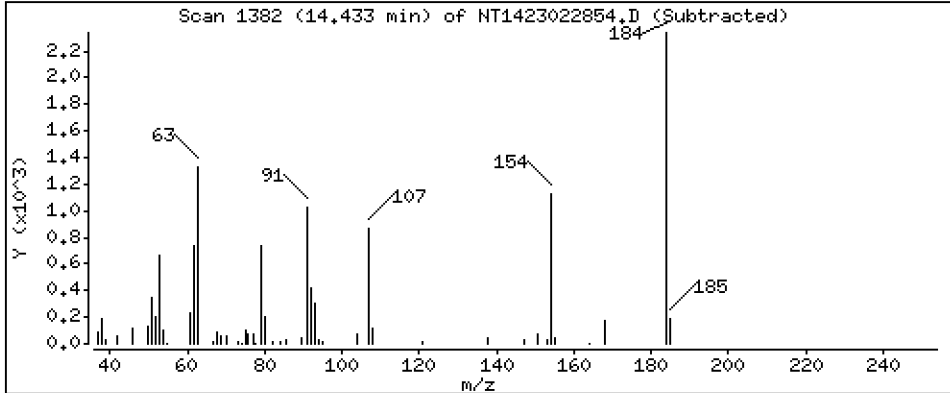
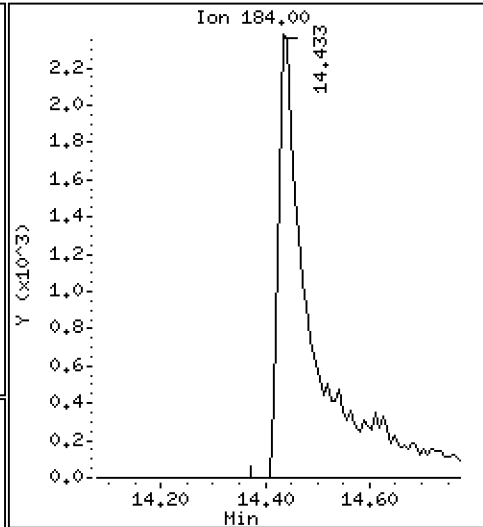
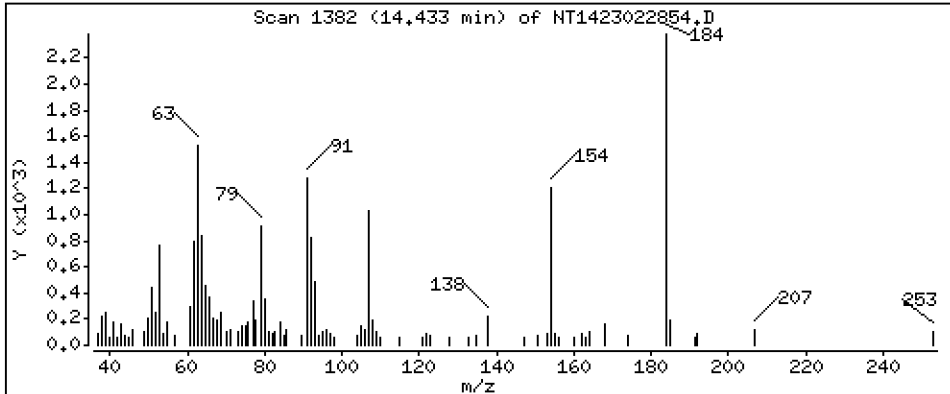
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 11,19 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

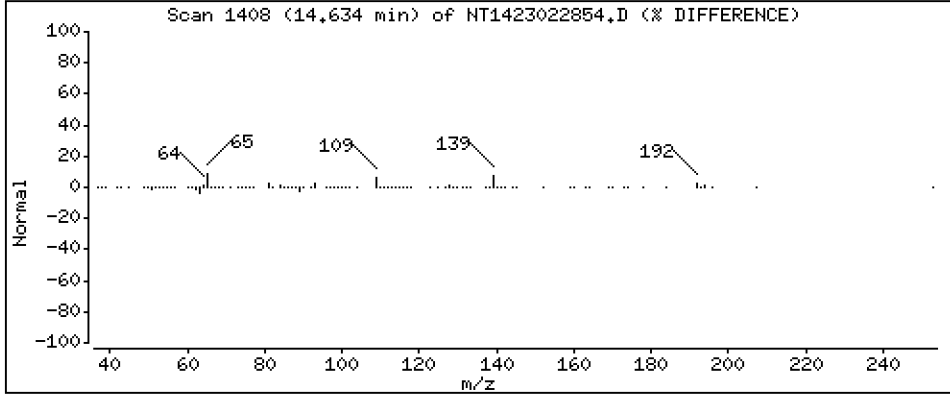
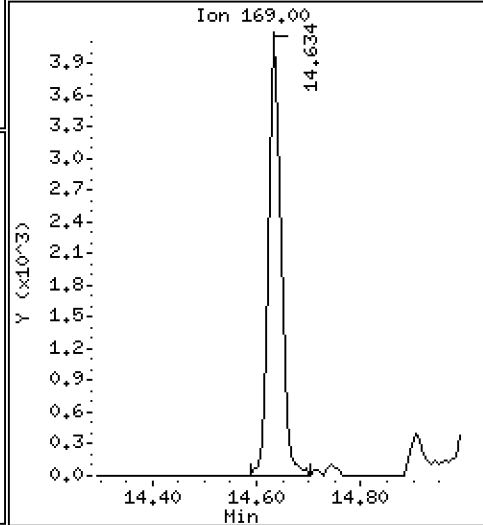
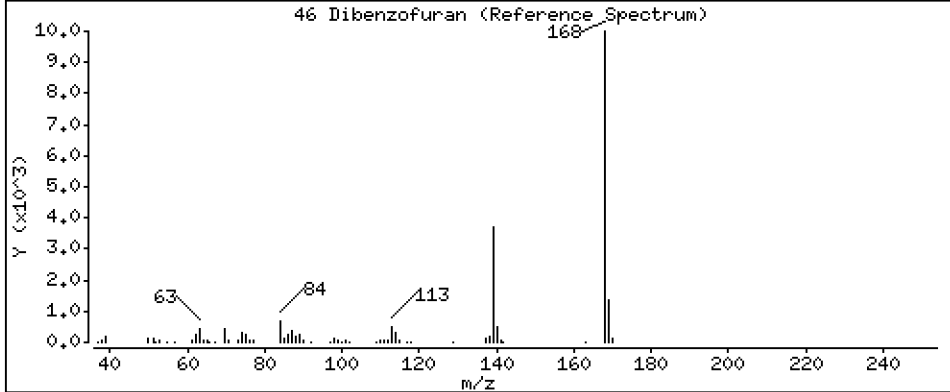
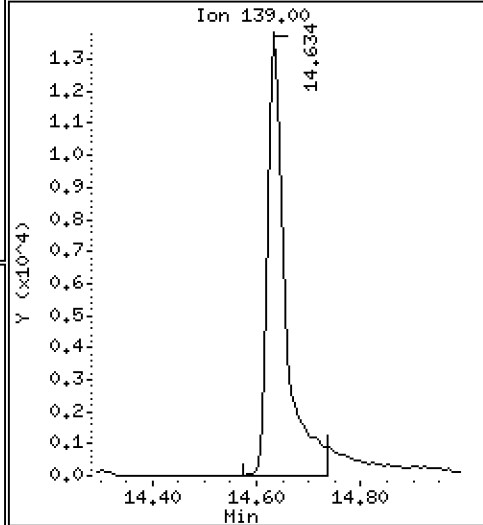
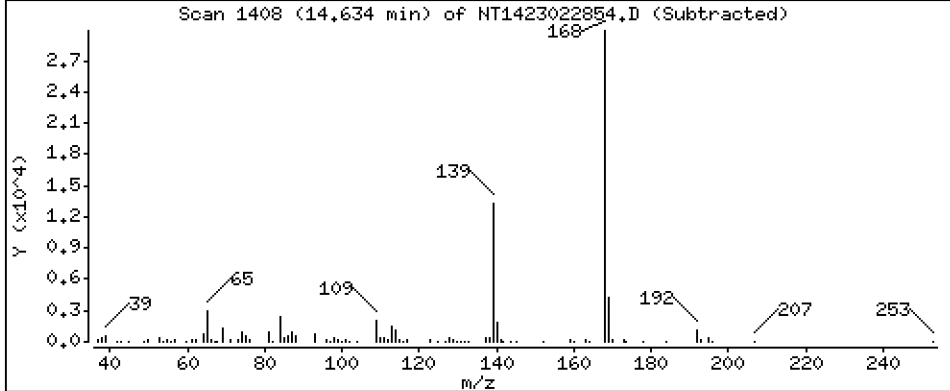
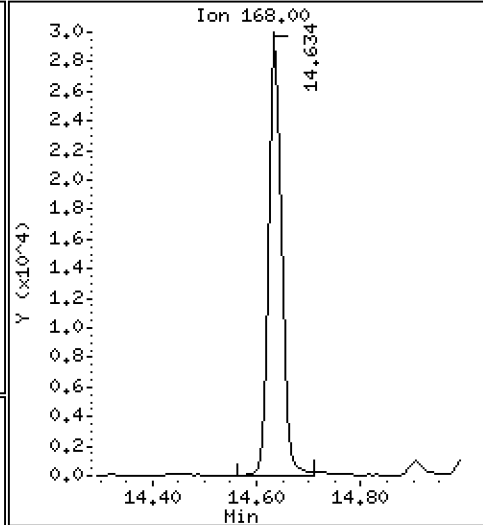
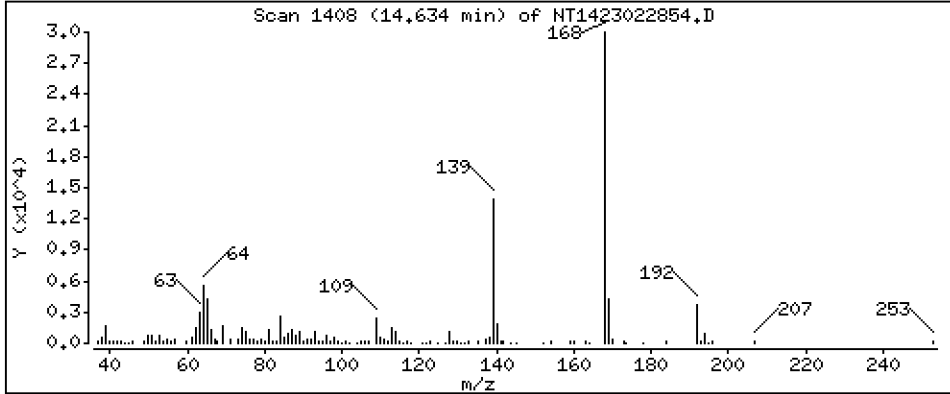
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,877 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

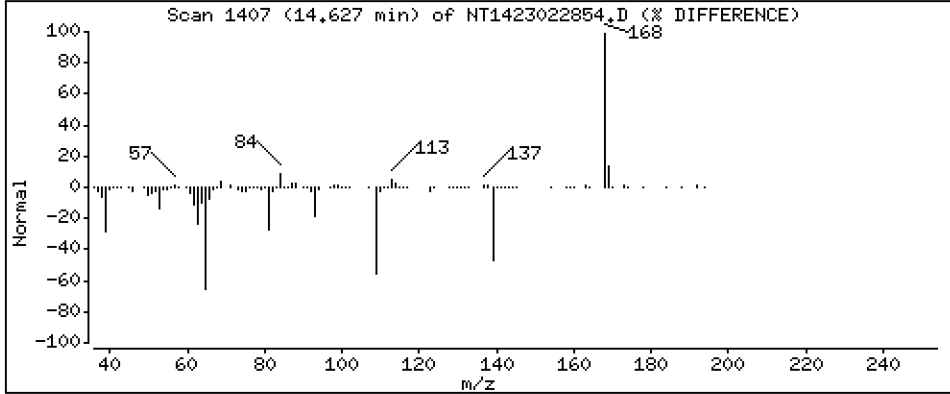
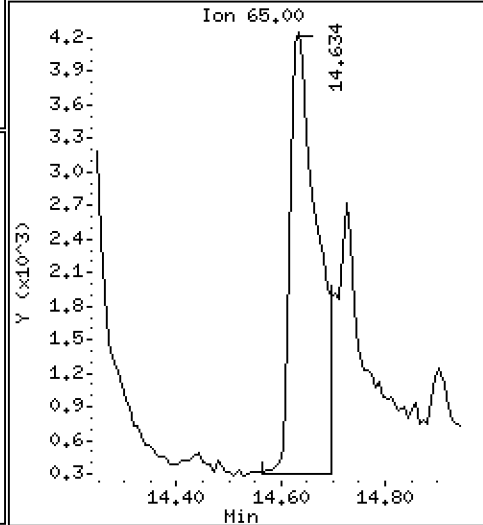
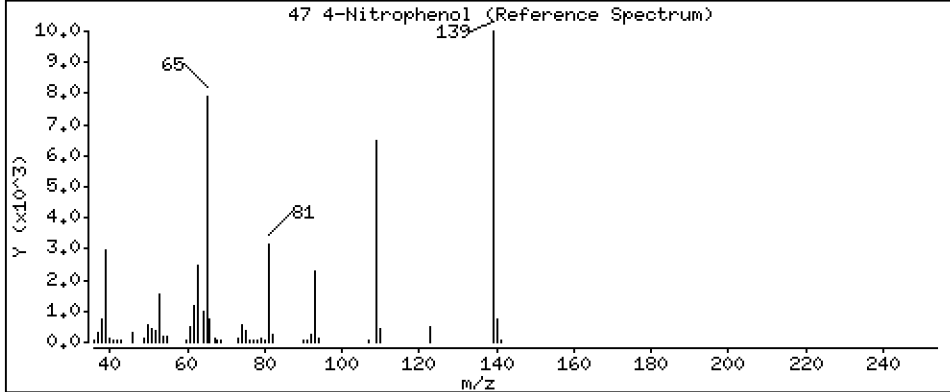
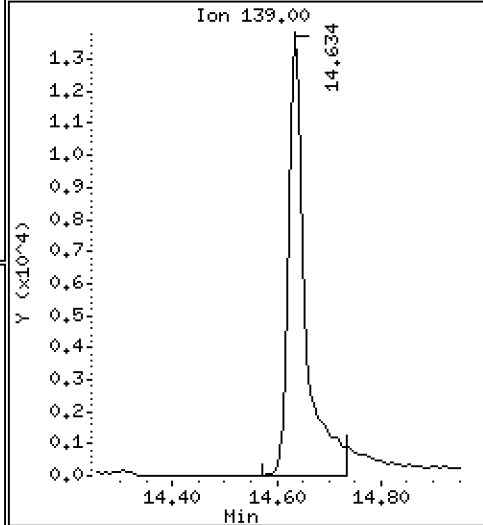
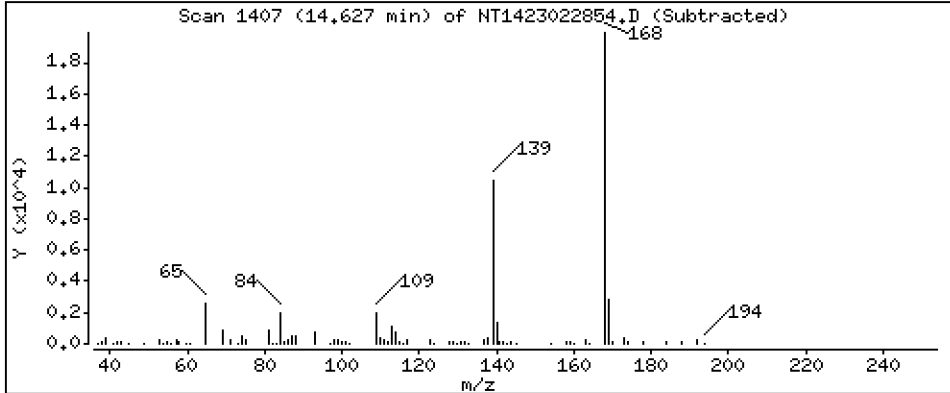
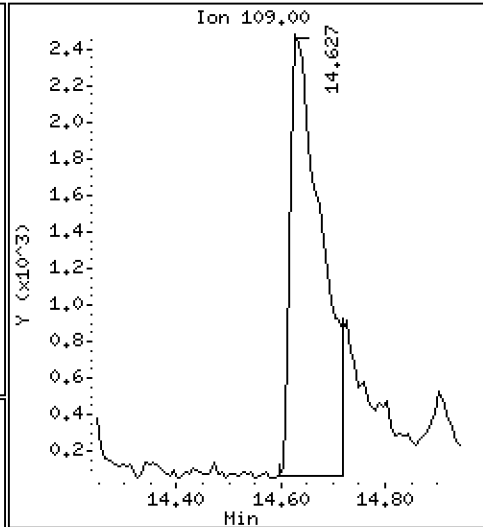
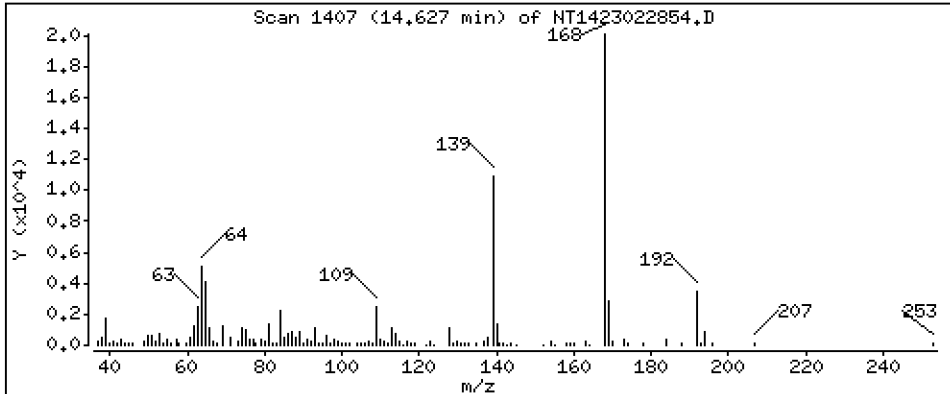
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

47 4-Nitrophenol

Concentration: 12.44 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

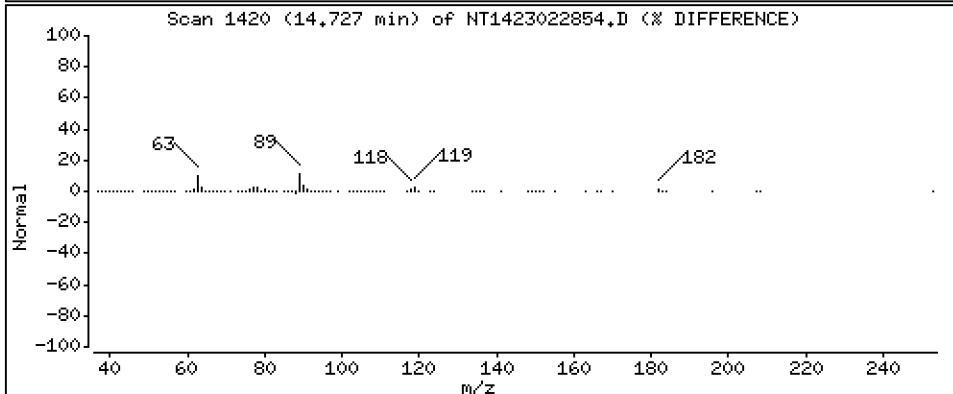
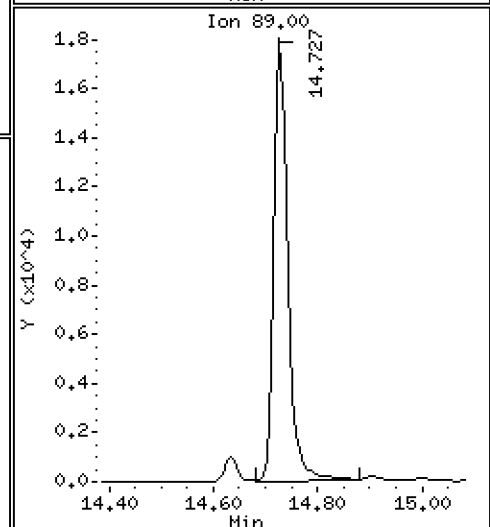
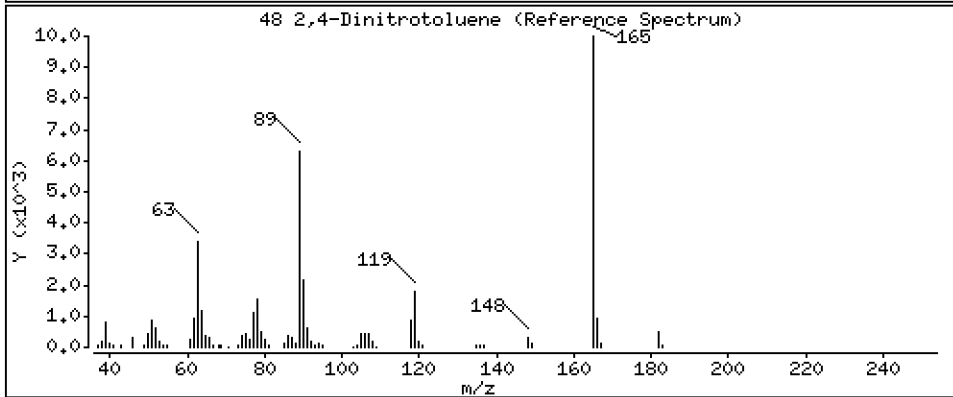
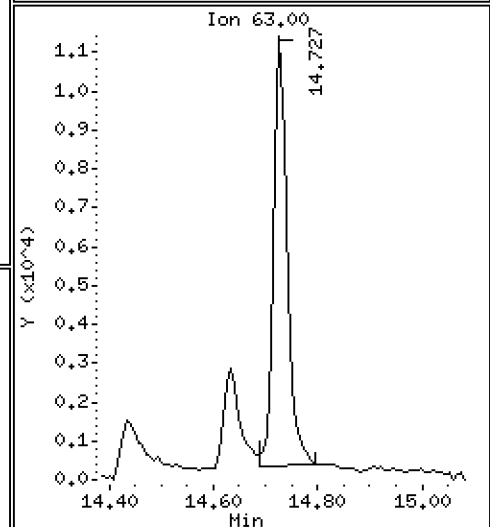
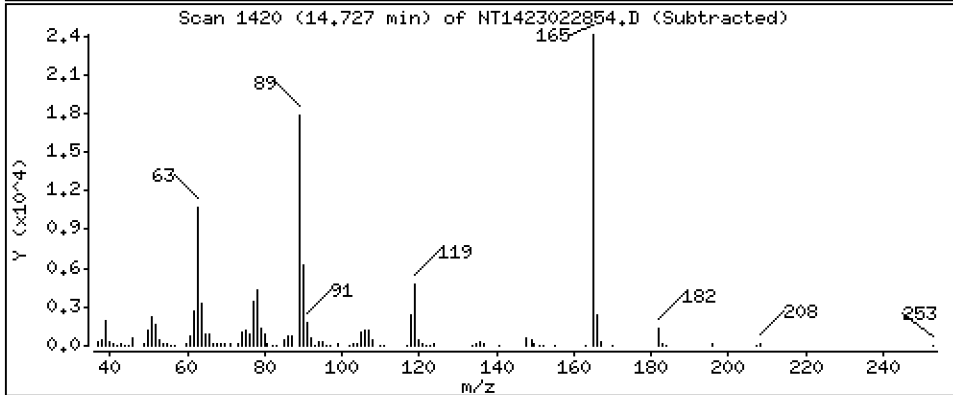
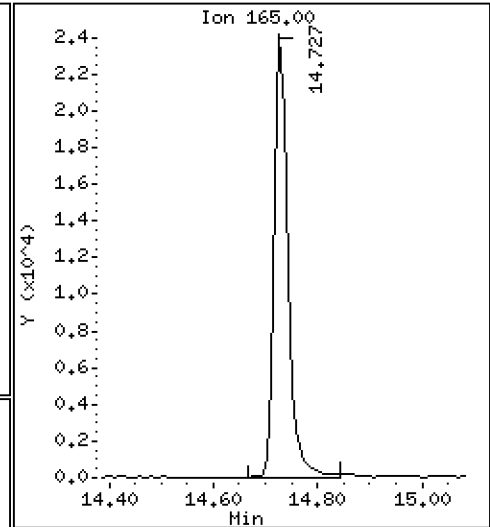
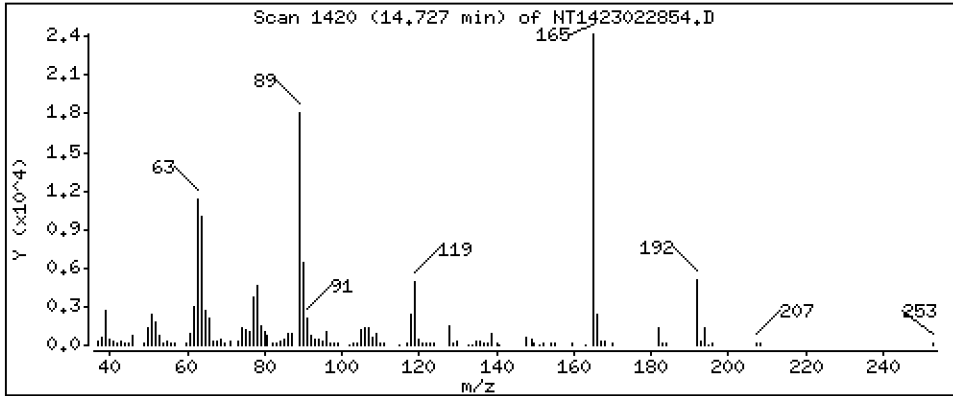
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 18.12 ug/mL





Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

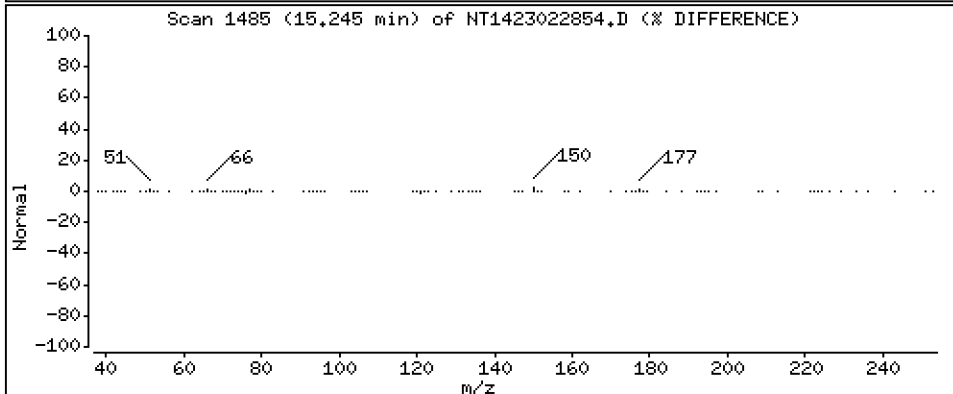
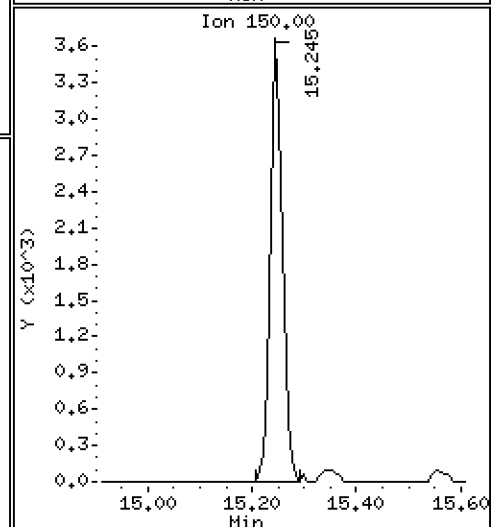
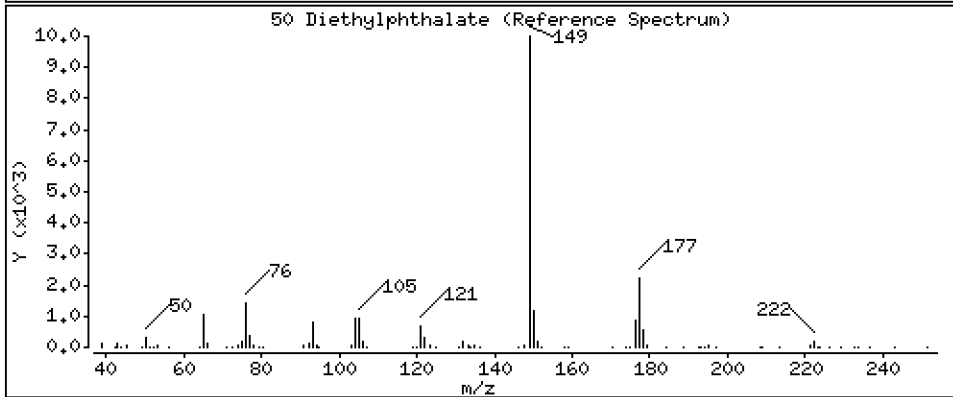
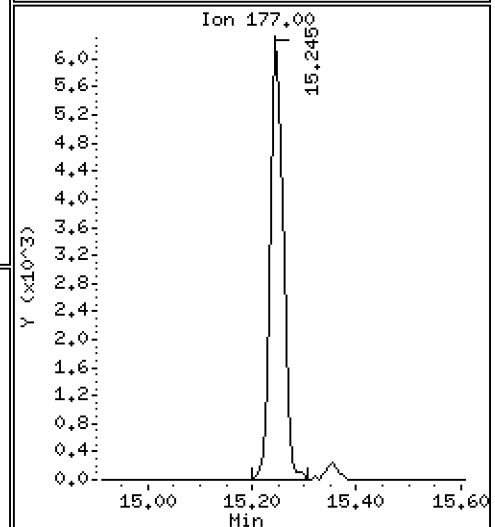
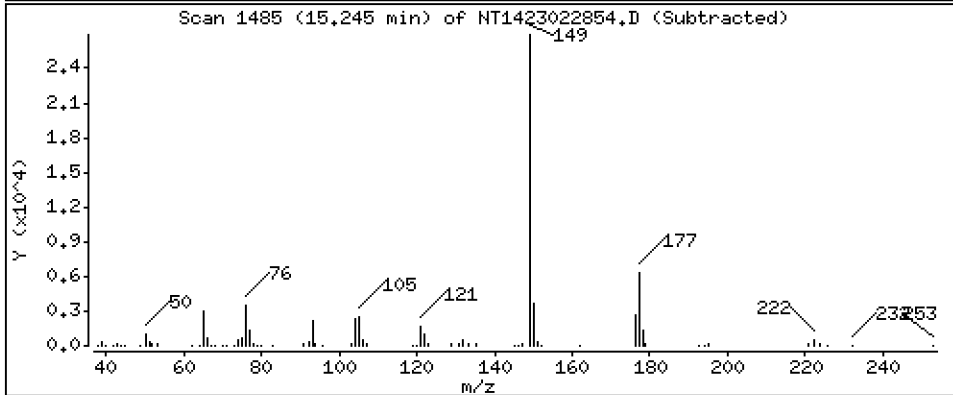
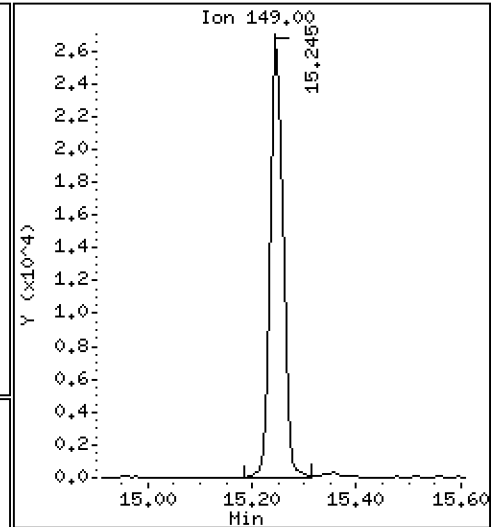
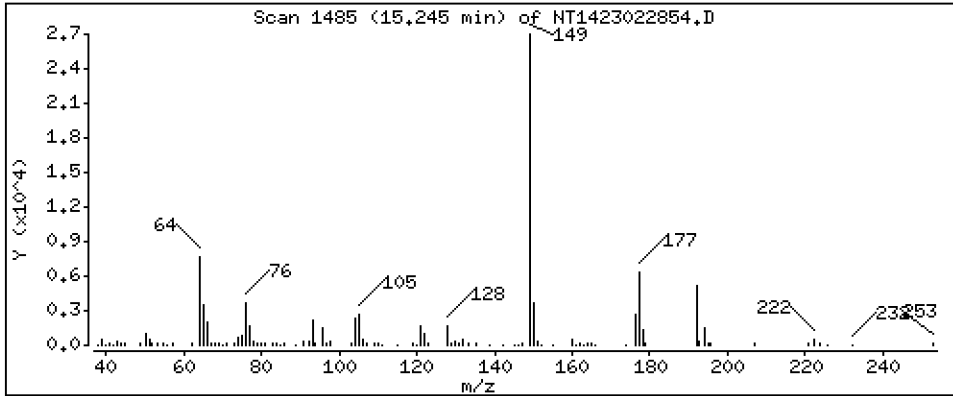
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 6.895 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

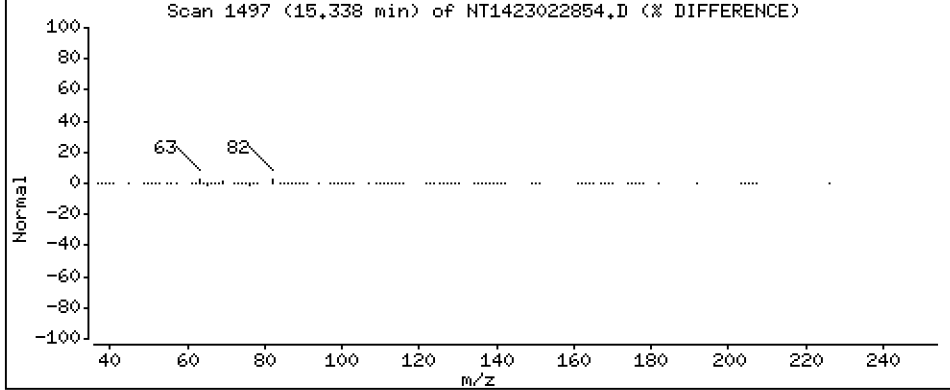
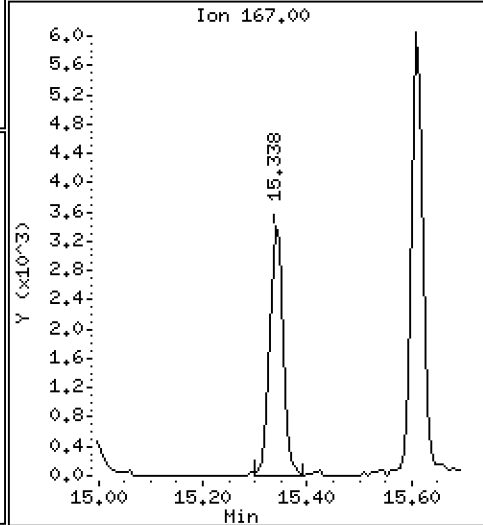
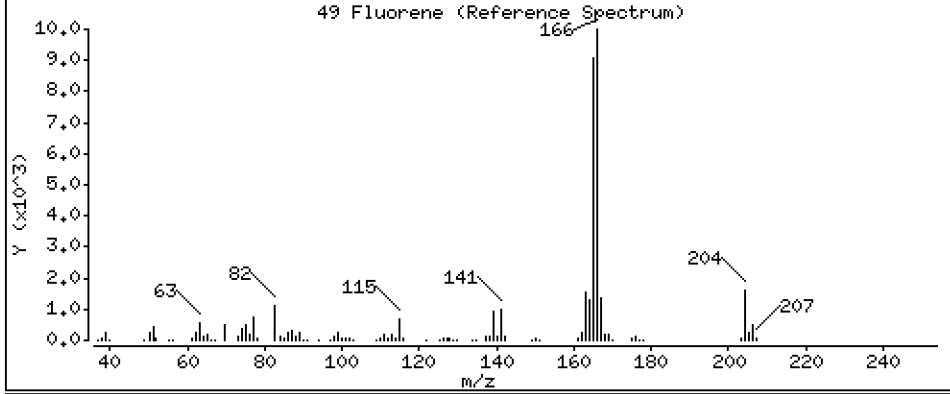
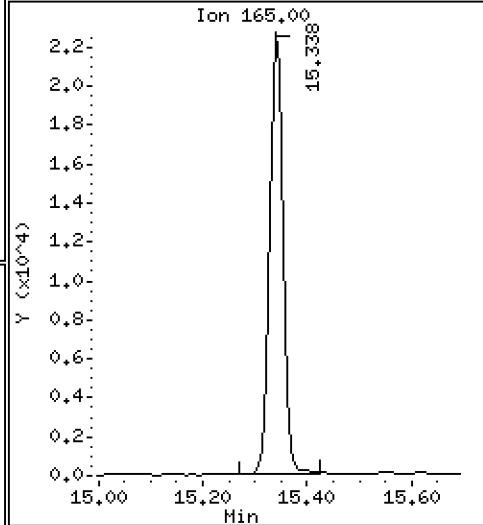
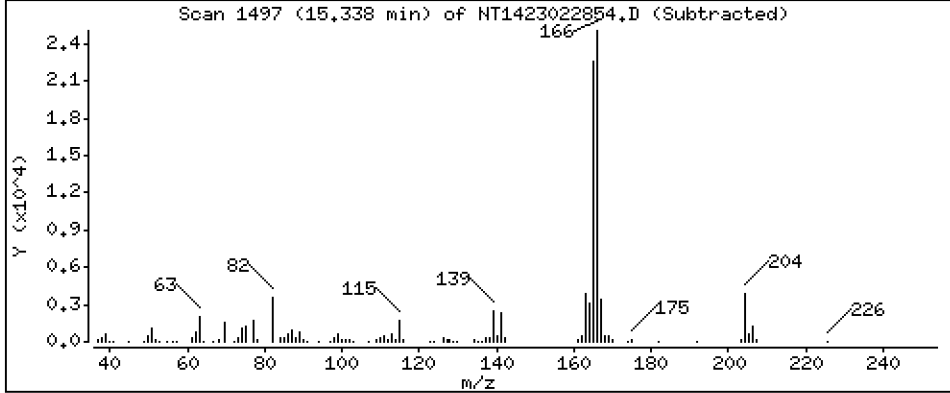
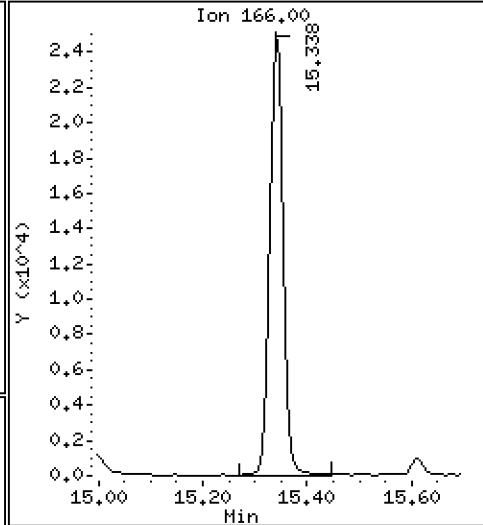
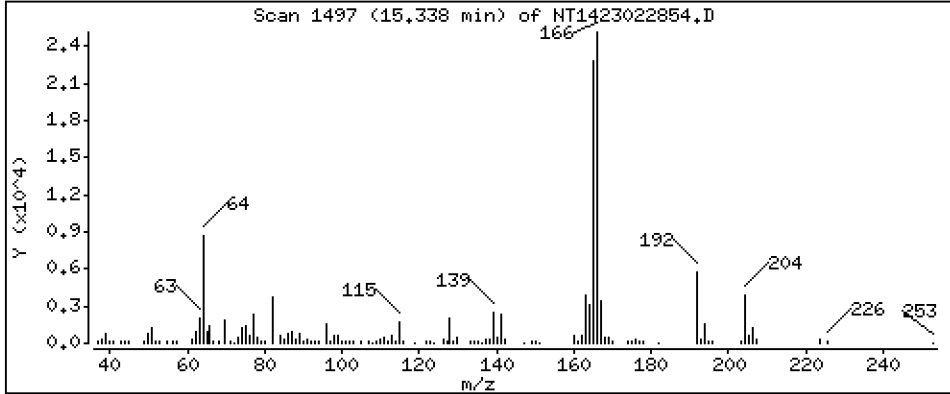
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 5,425 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

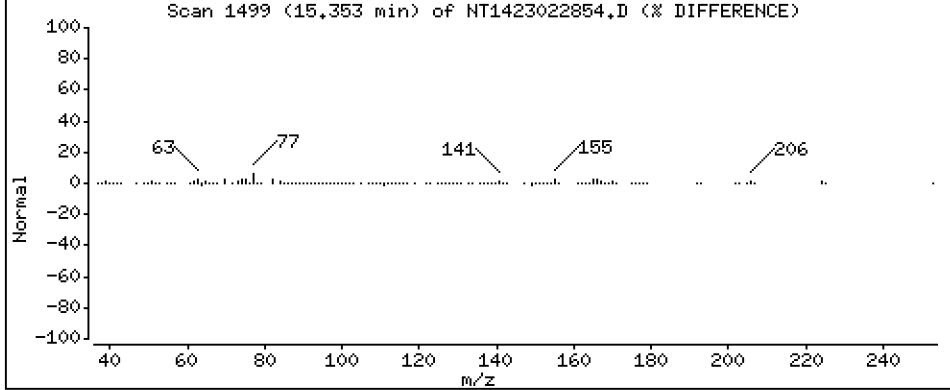
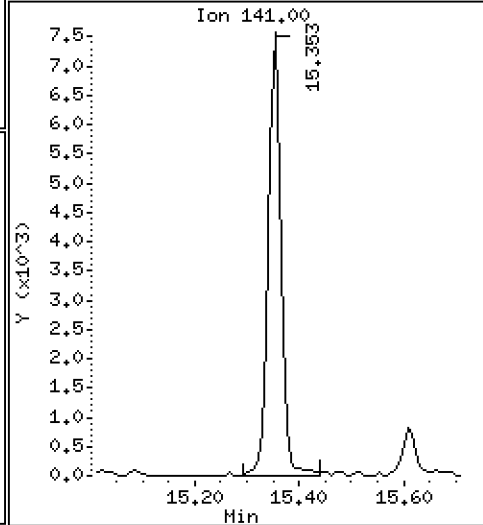
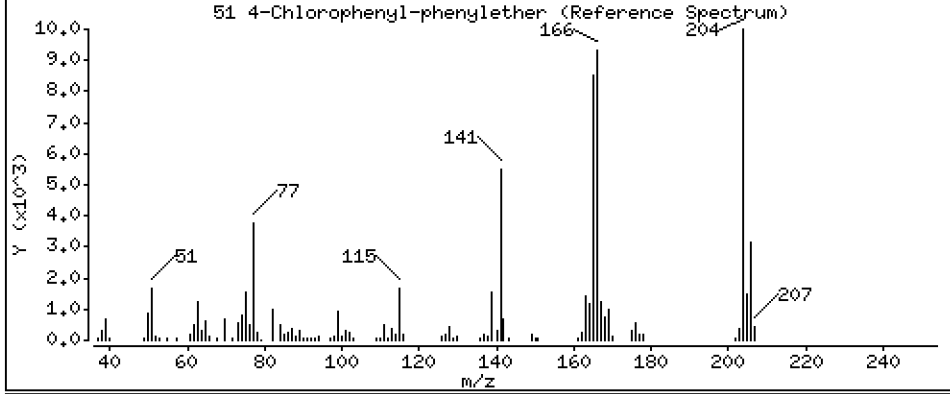
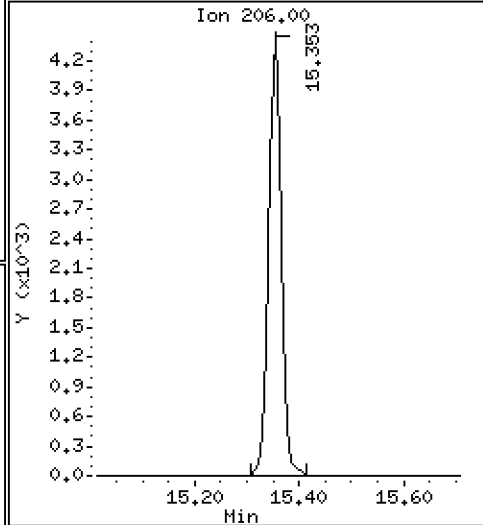
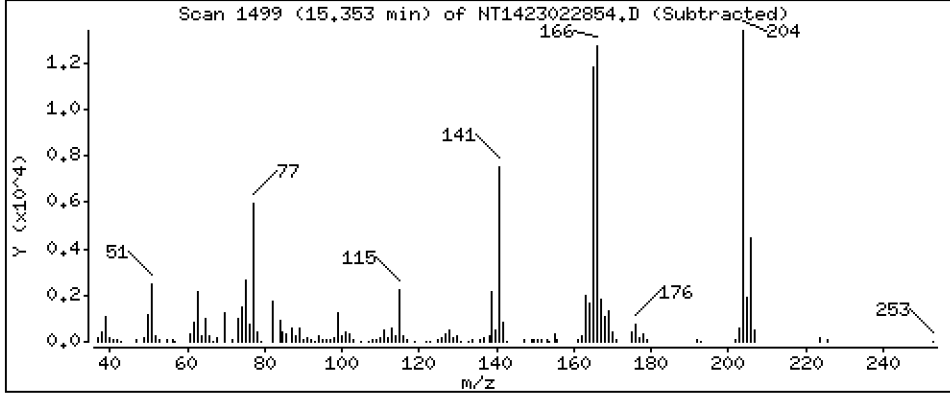
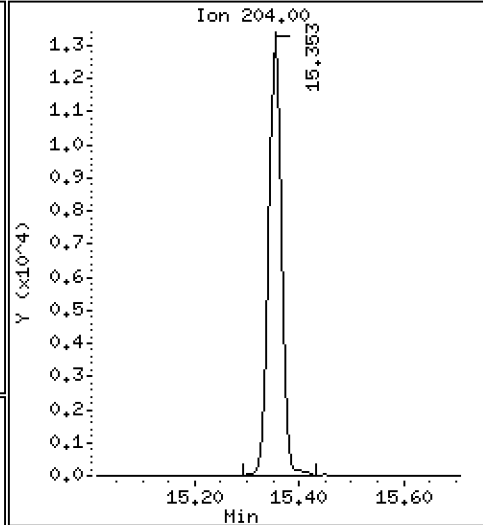
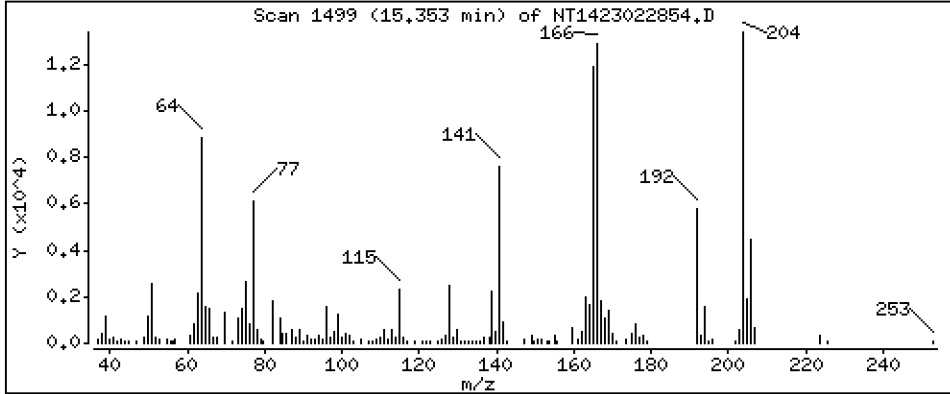
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

51 4-Chlorophenyl-phenylether

Concentration: 5.245 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

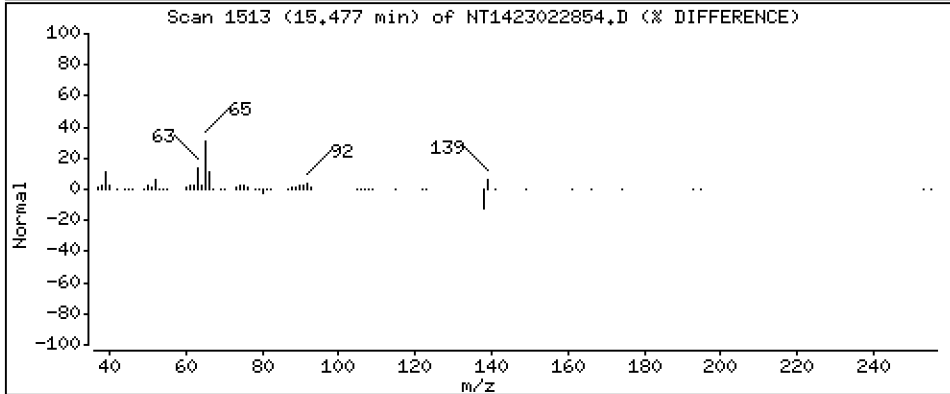
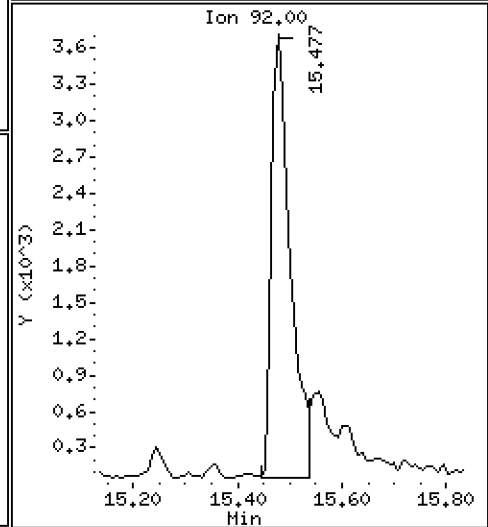
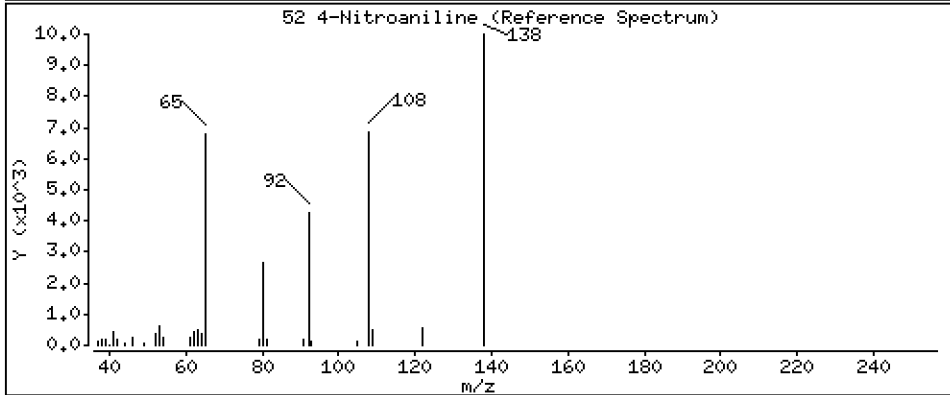
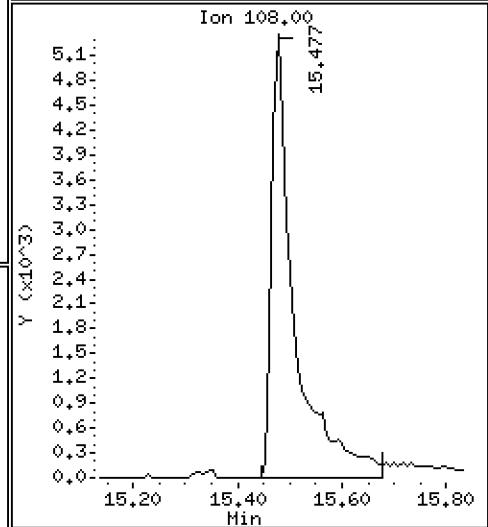
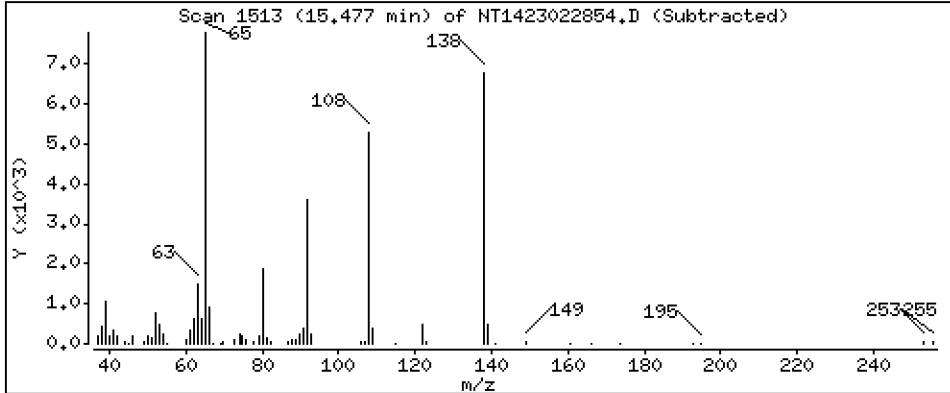
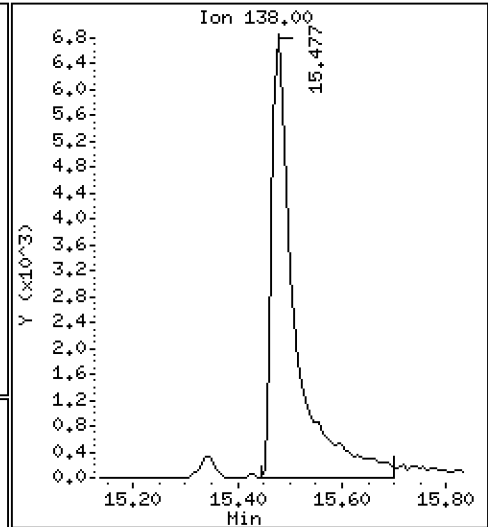
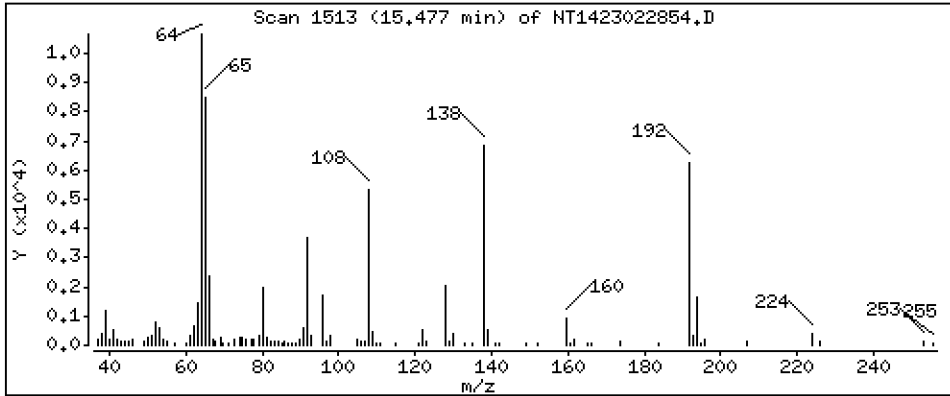
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

52 4-Nitroaniline

Concentration: 12.57 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

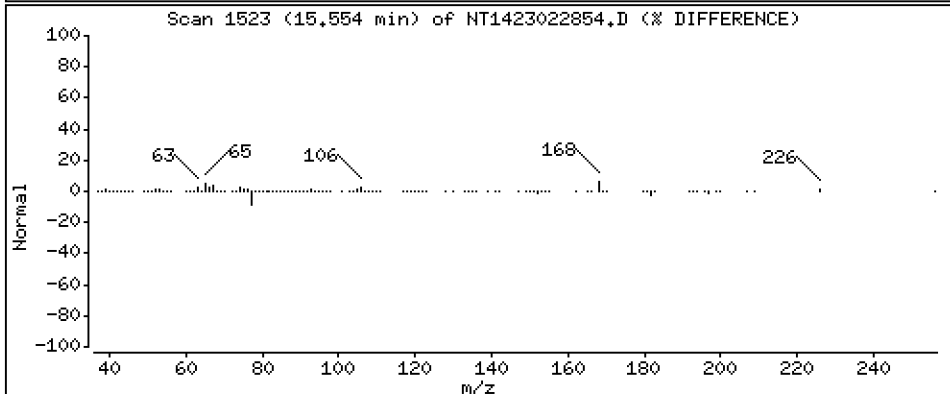
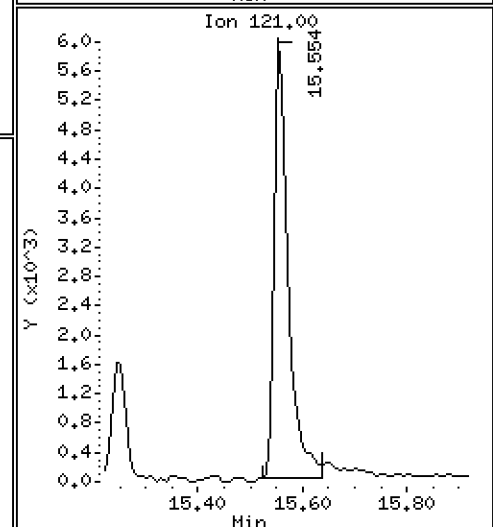
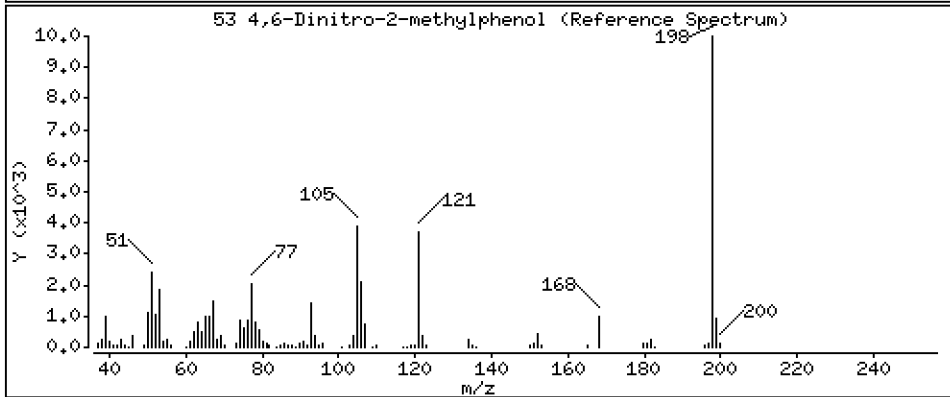
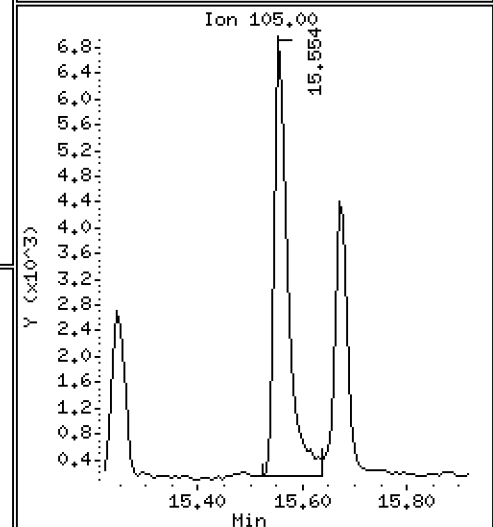
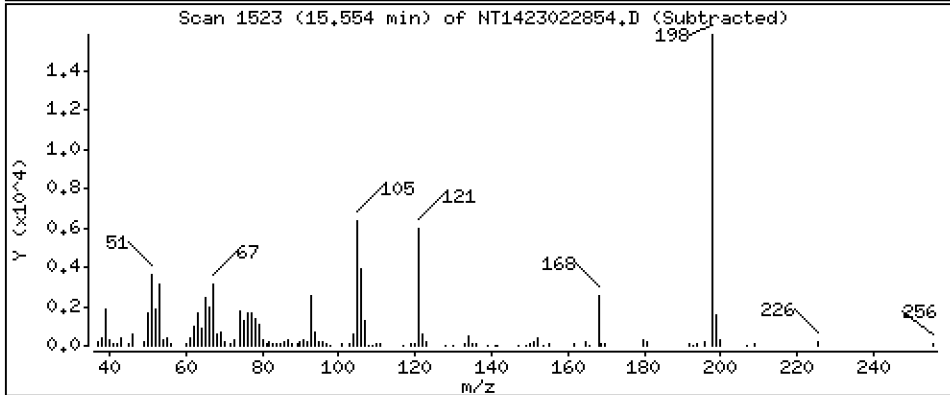
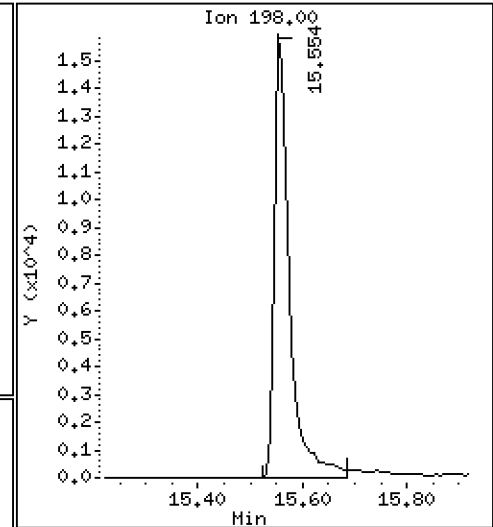
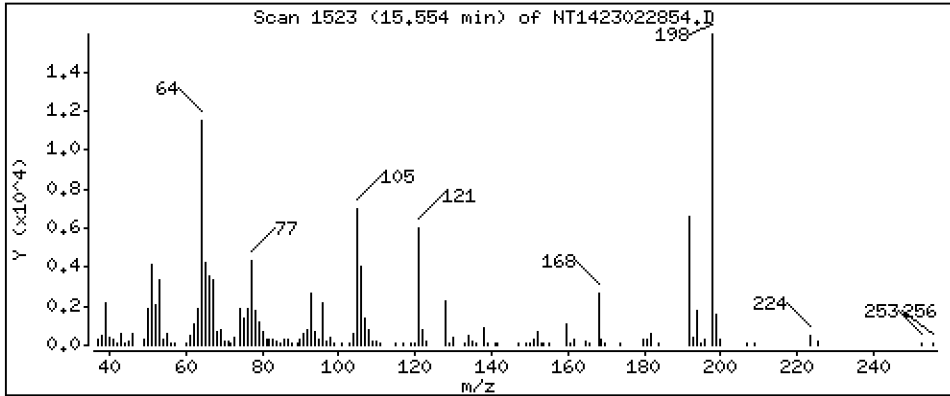
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 23,21 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

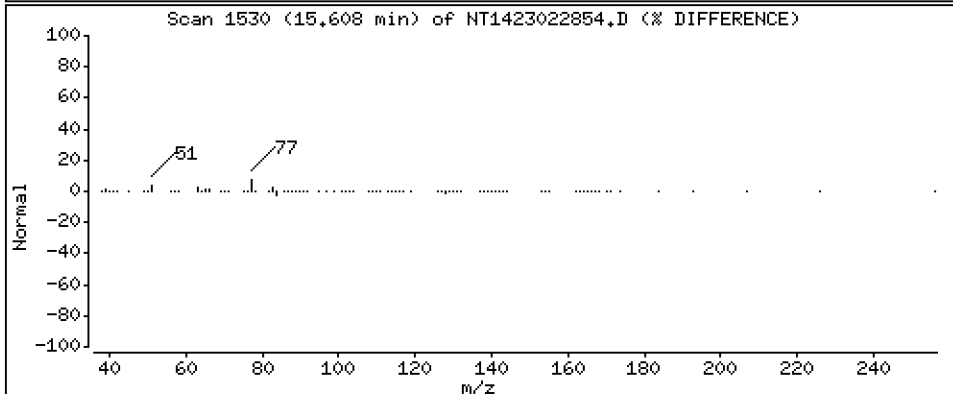
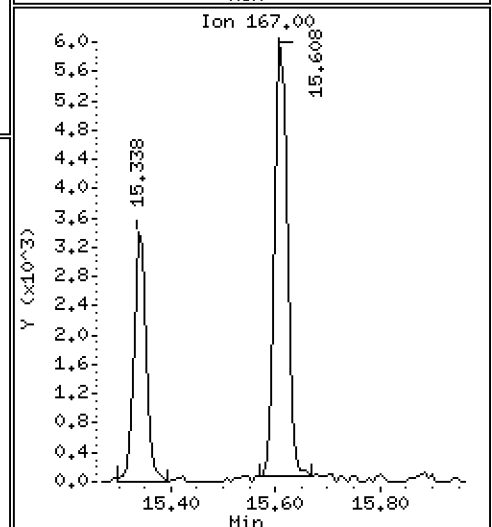
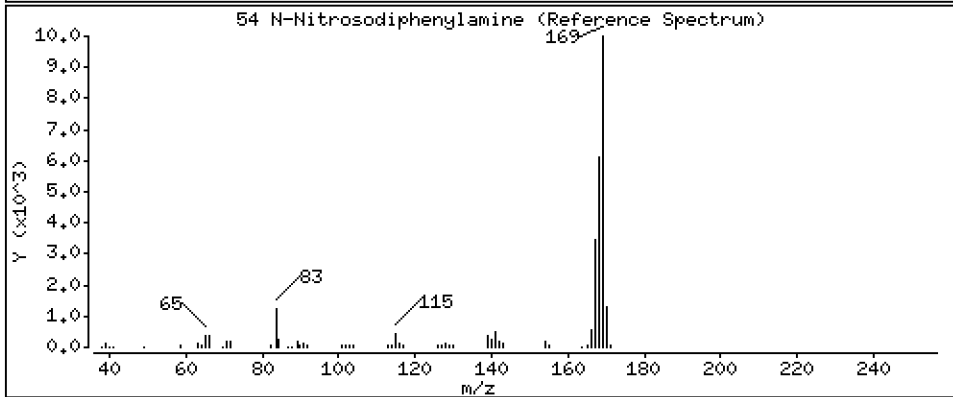
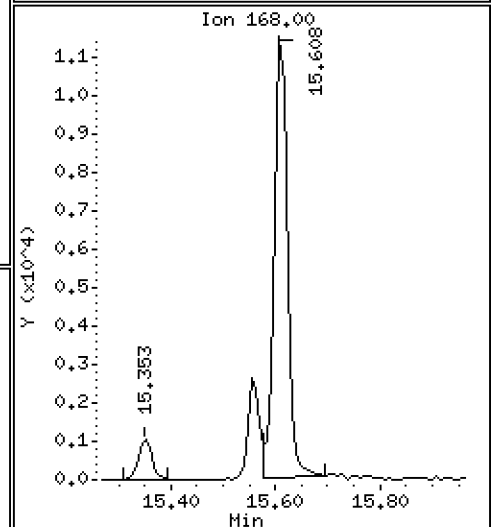
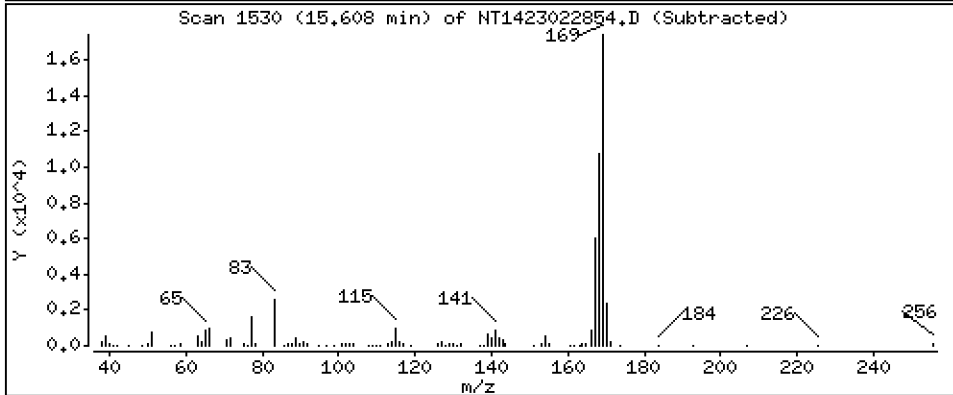
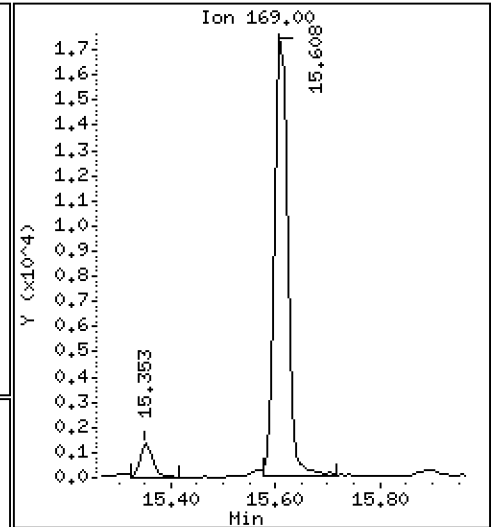
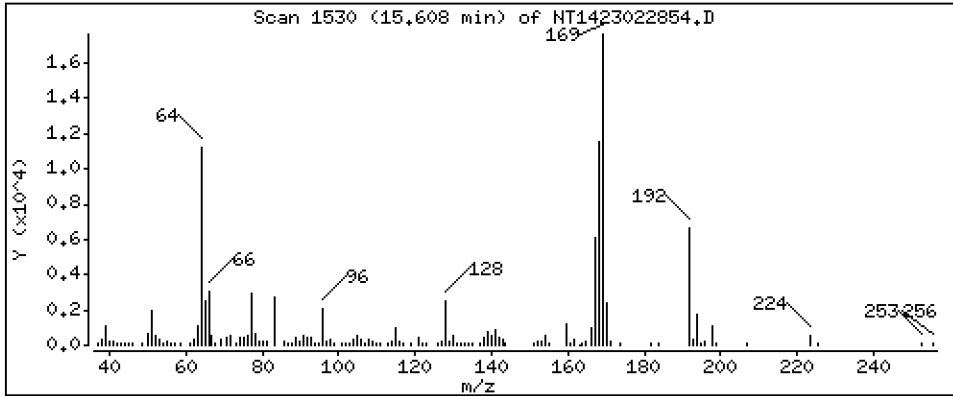
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 5.775 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

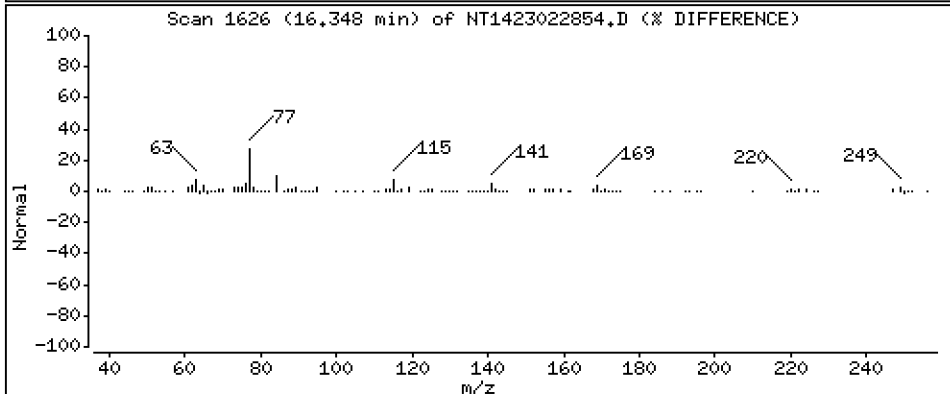
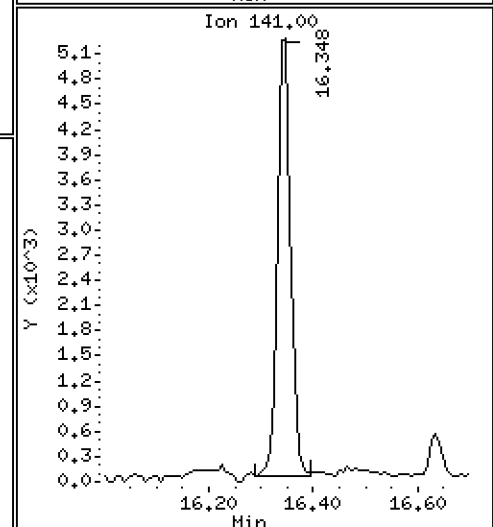
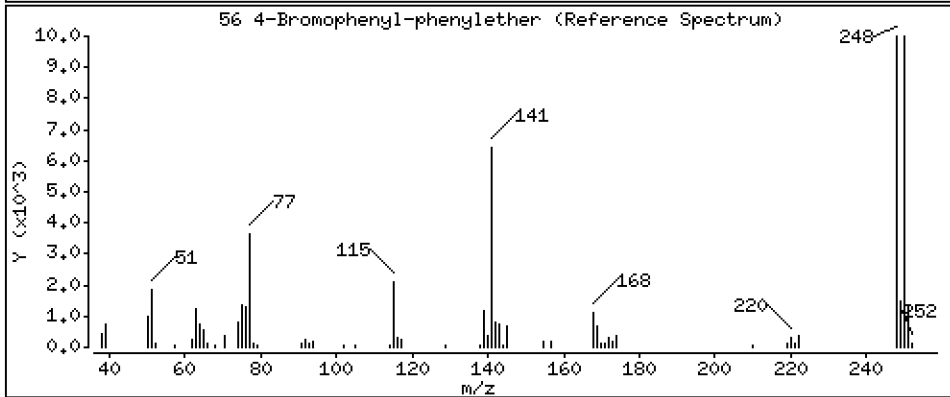
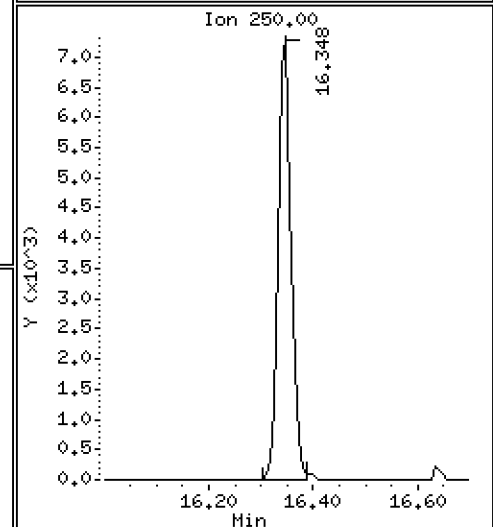
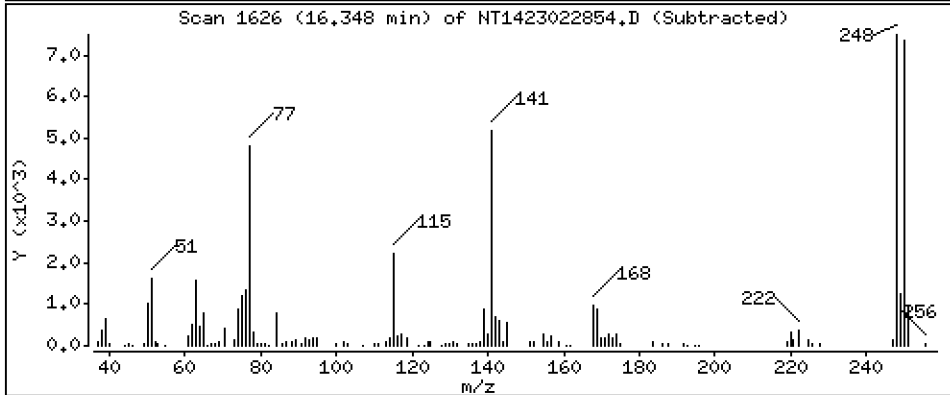
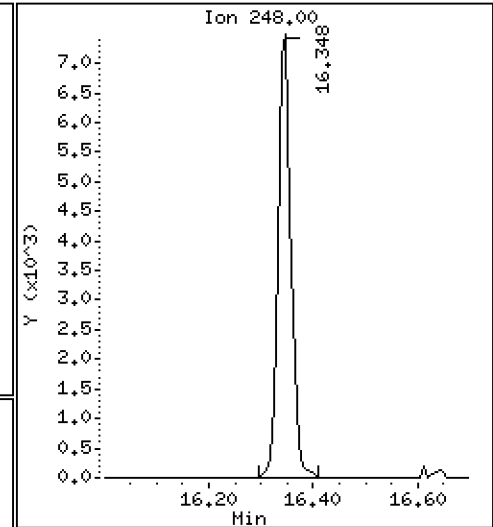
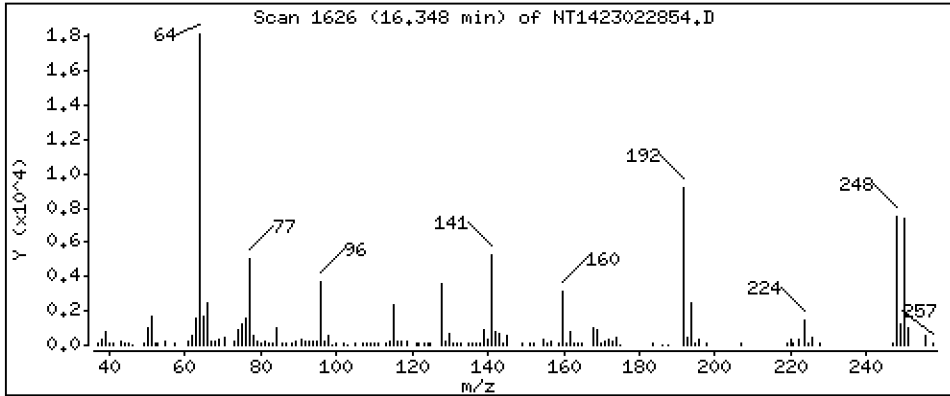
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,766 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

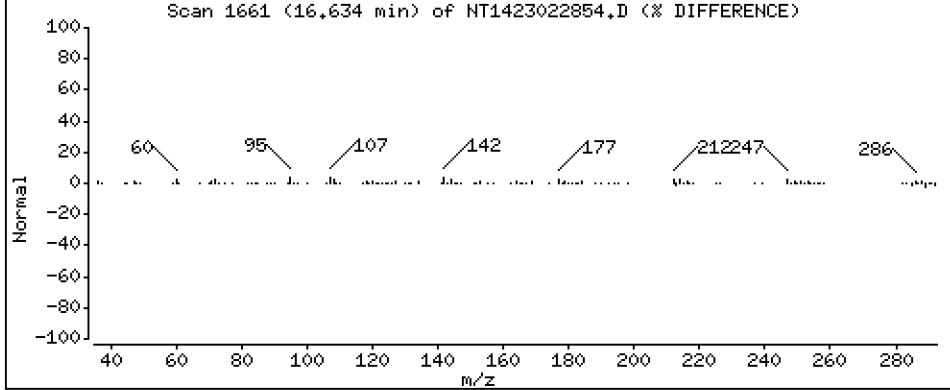
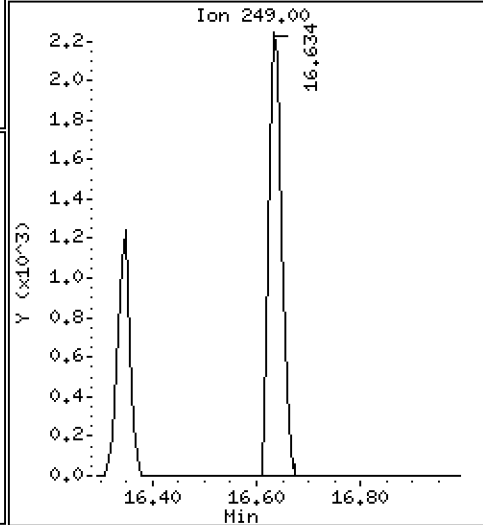
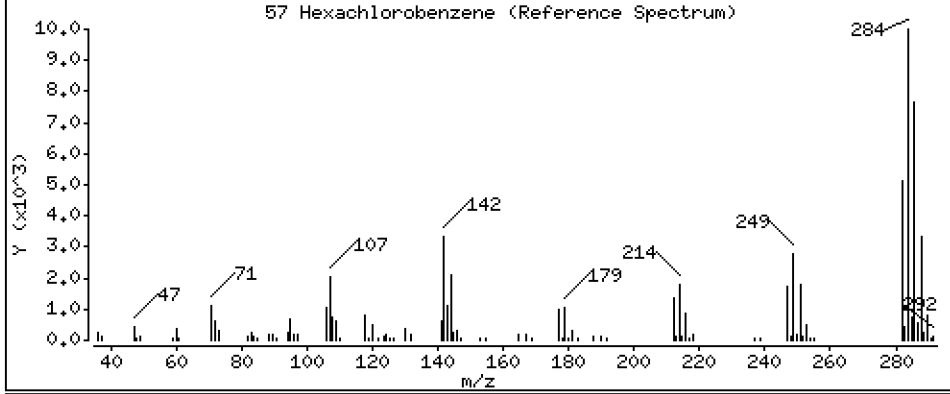
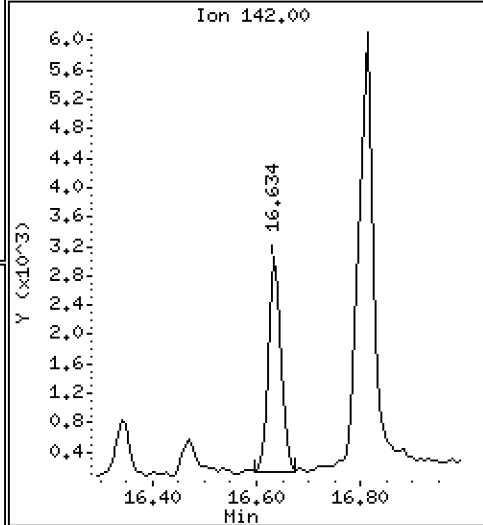
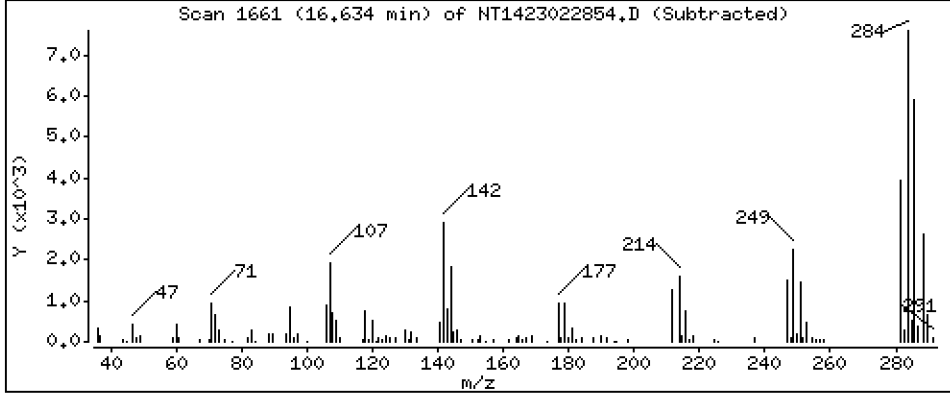
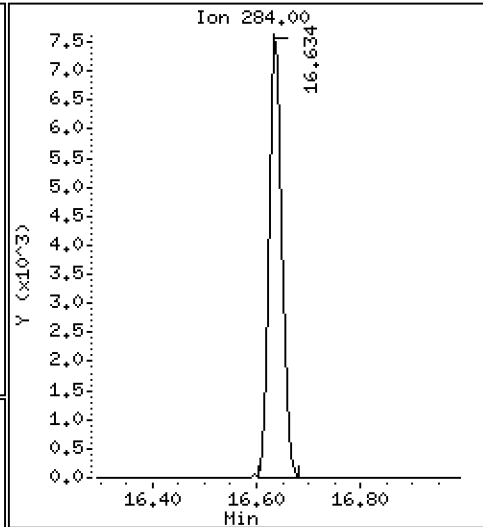
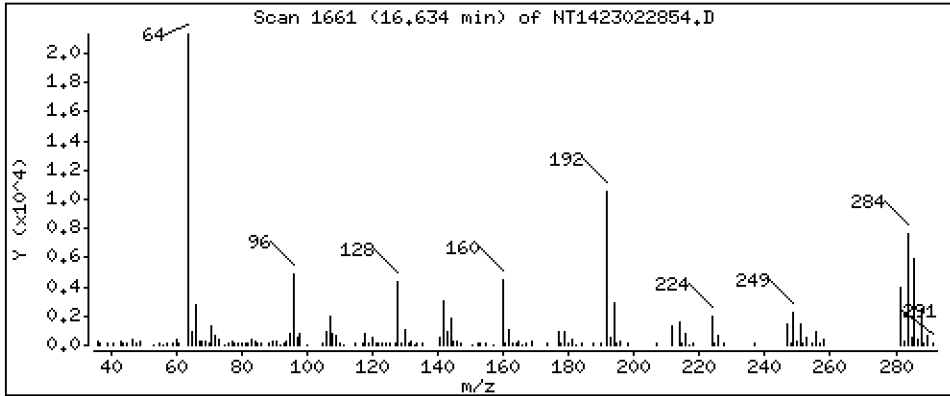
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 5,382 ug/mL





Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

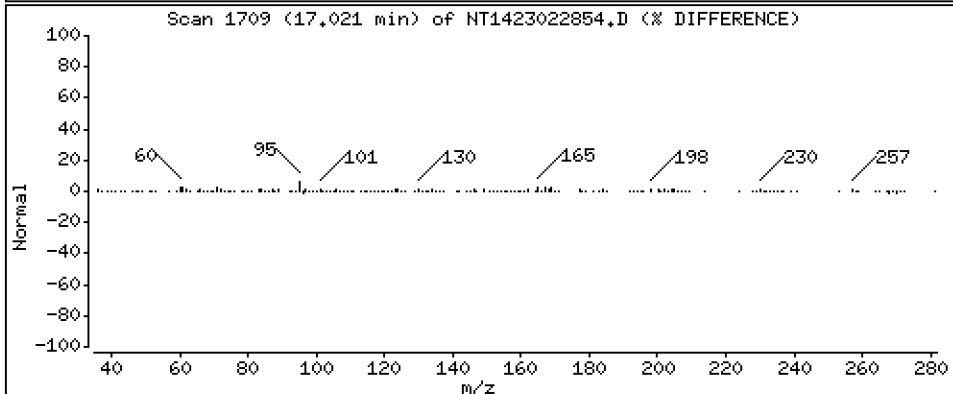
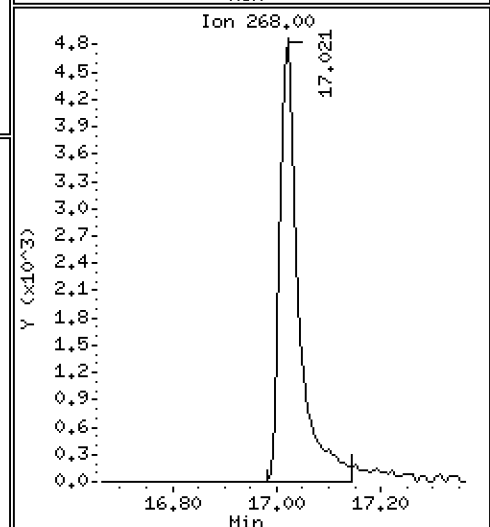
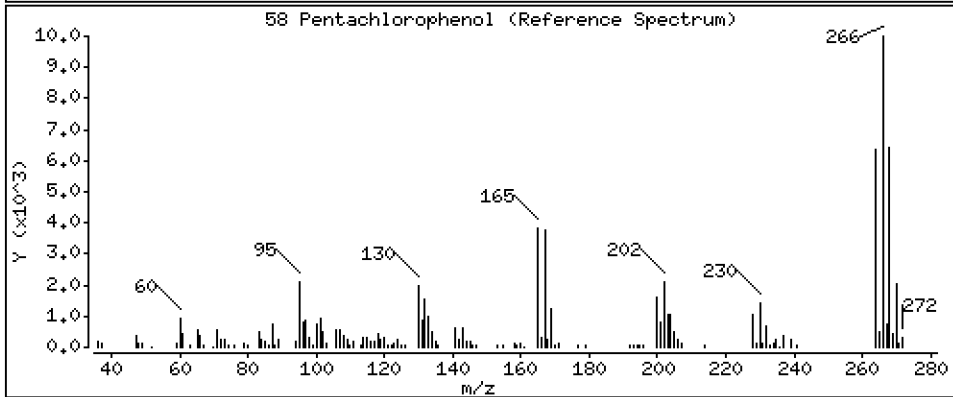
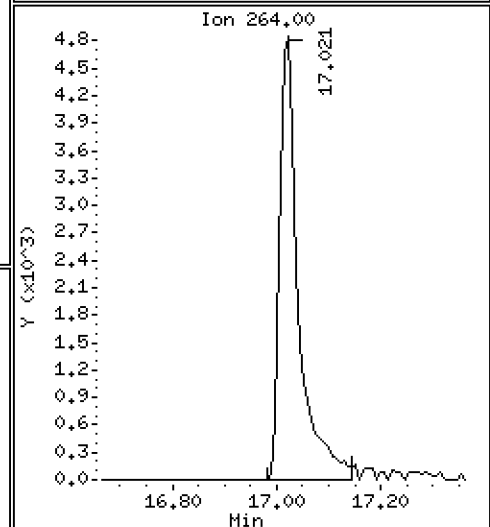
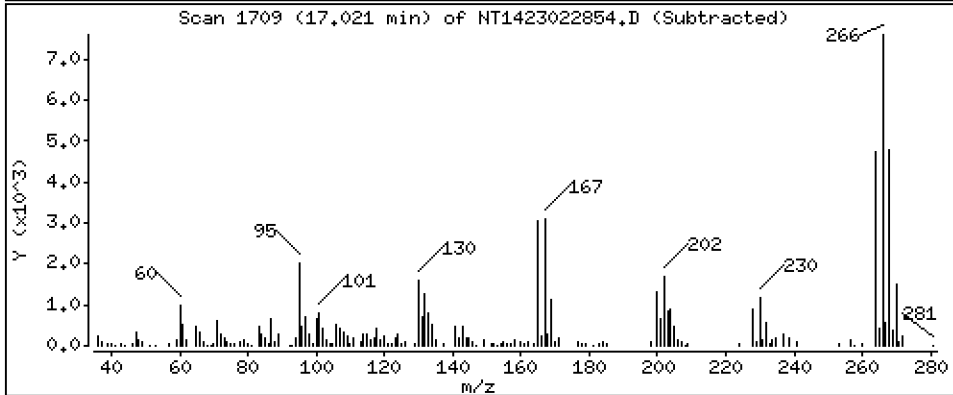
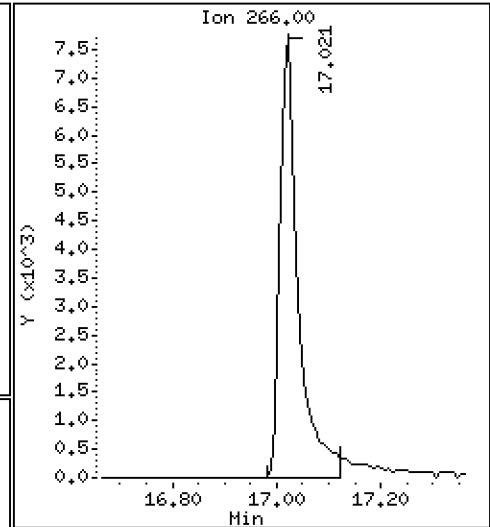
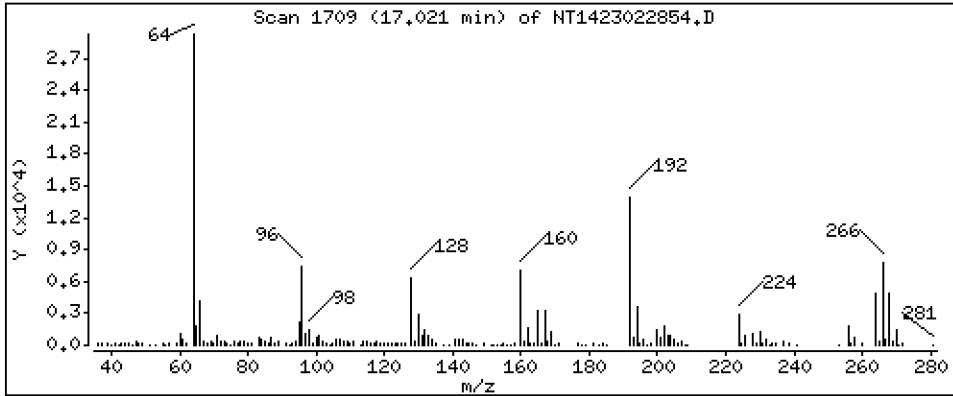
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 16,09 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

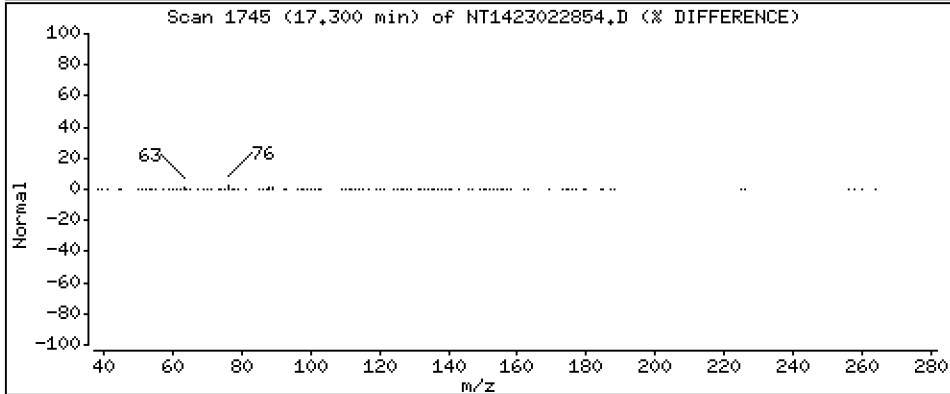
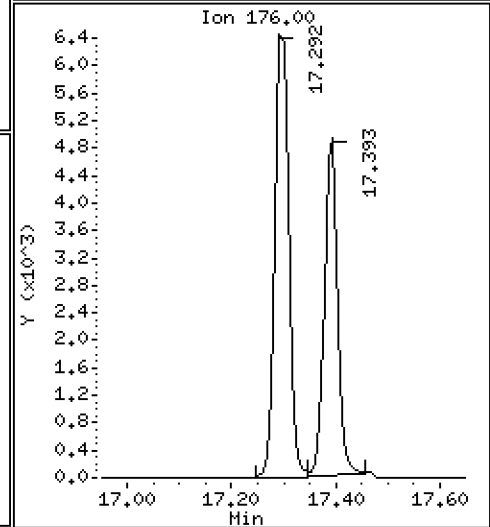
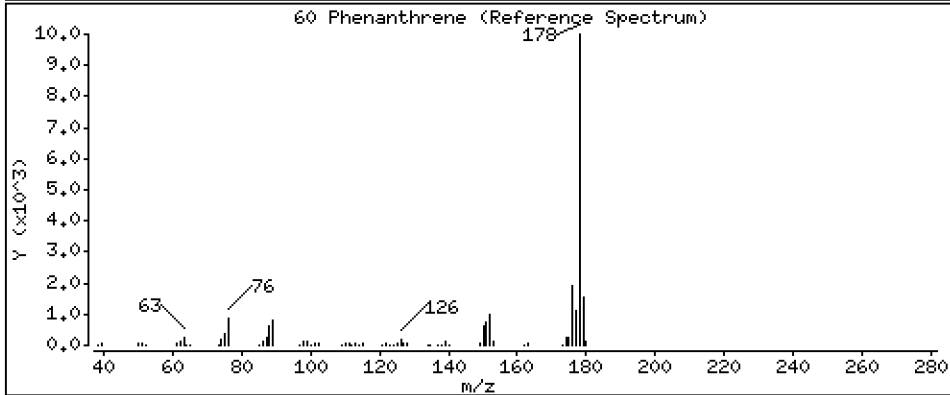
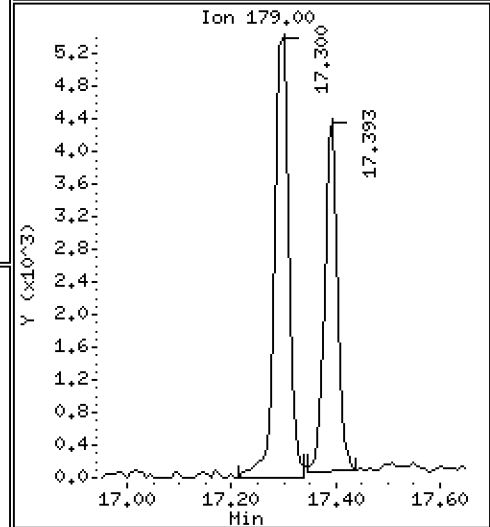
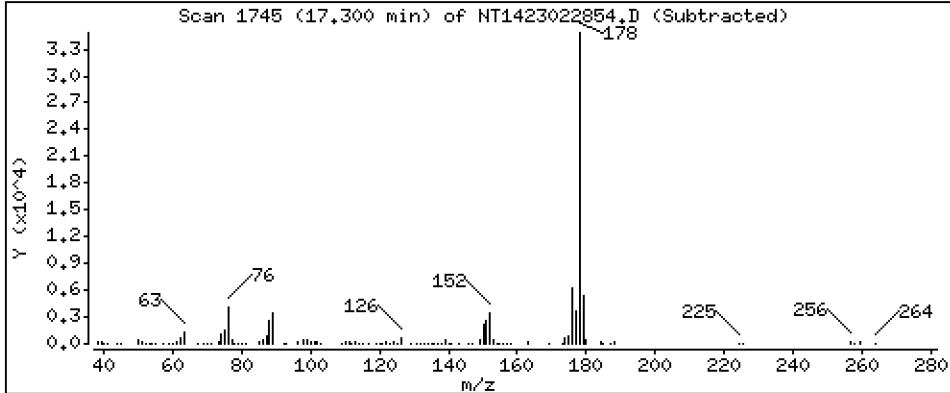
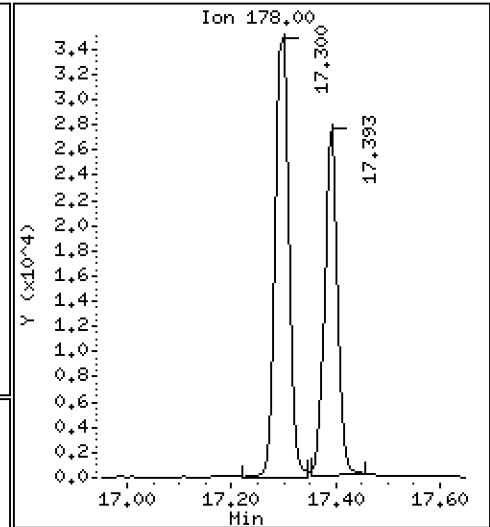
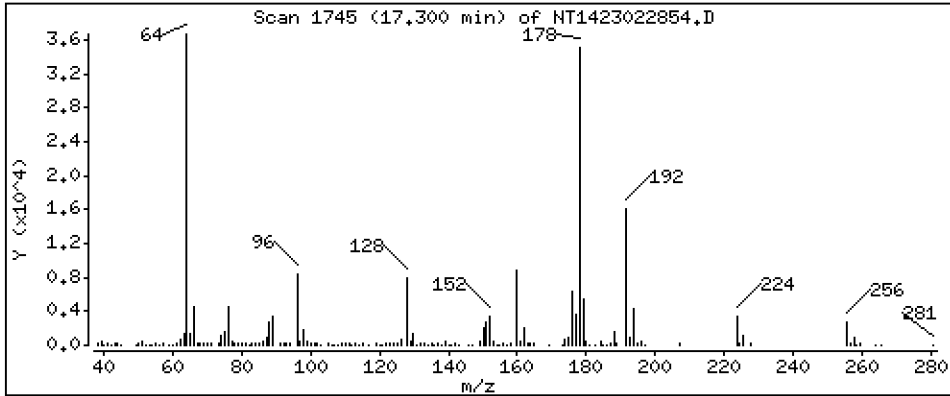
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 5.704 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

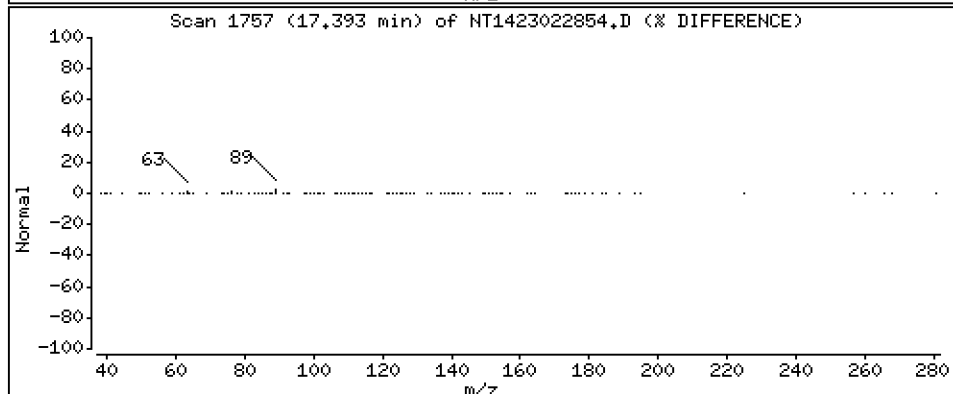
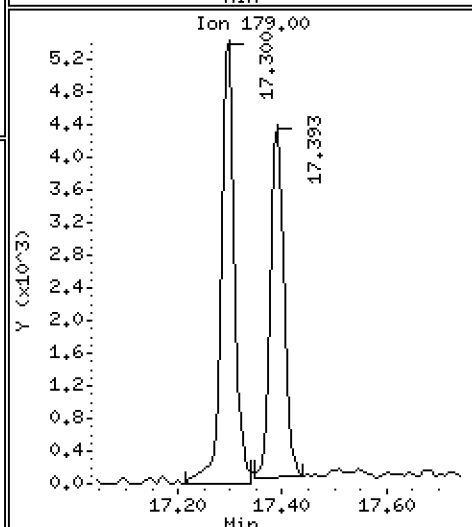
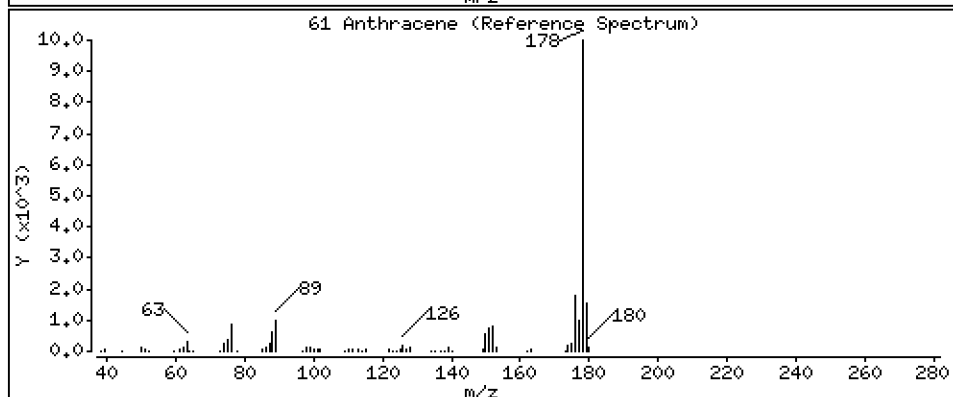
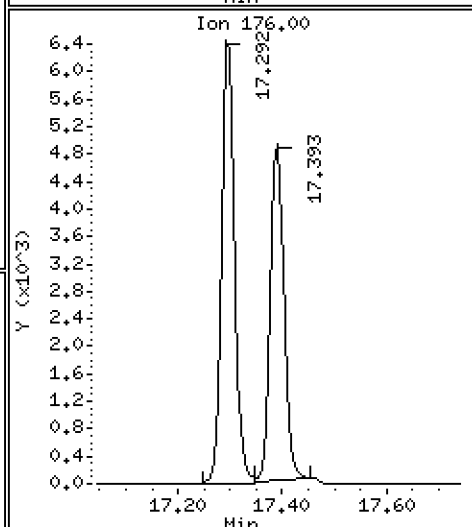
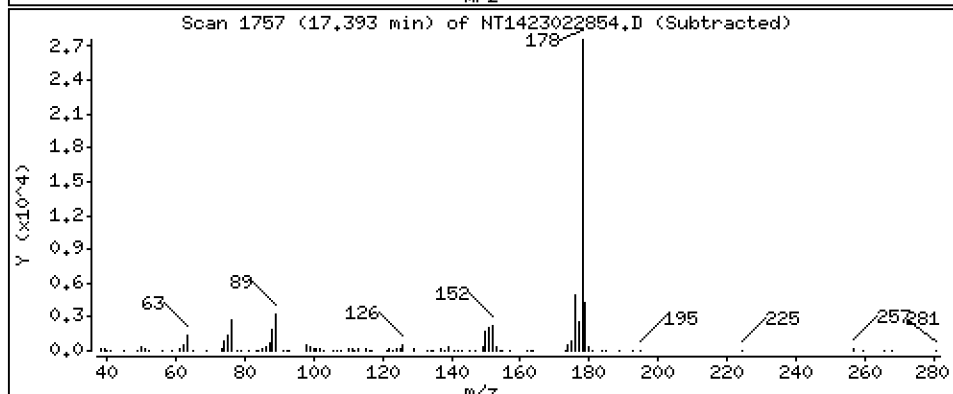
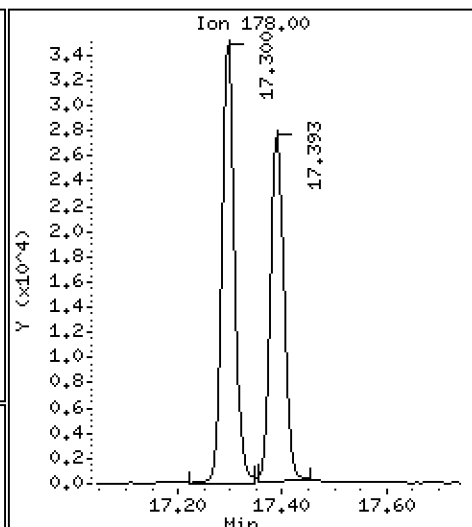
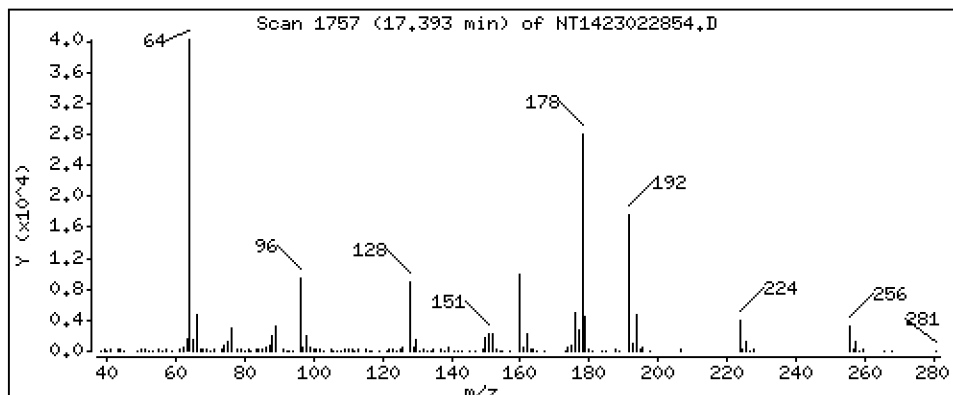
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,750 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

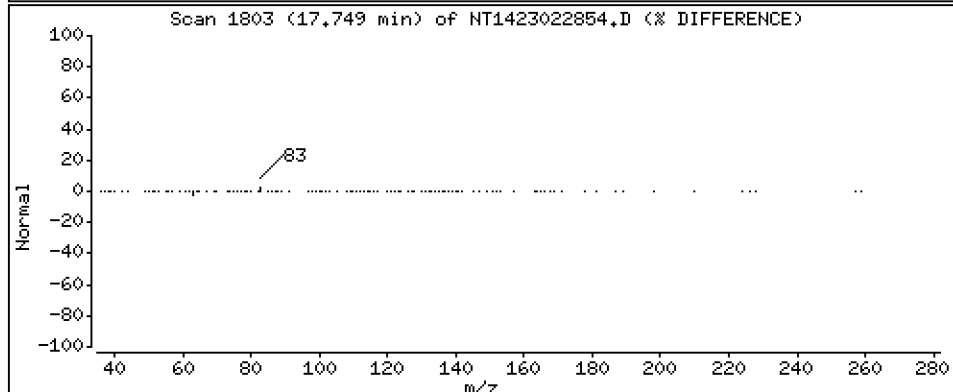
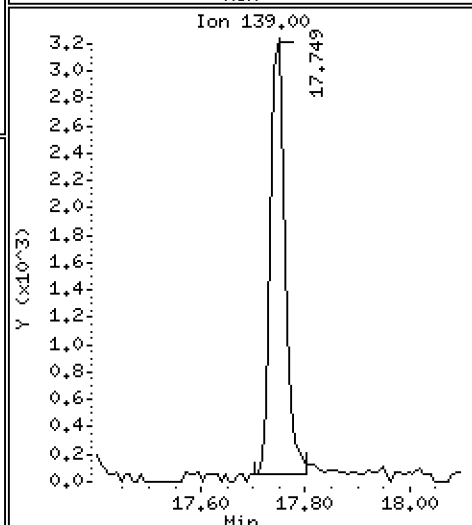
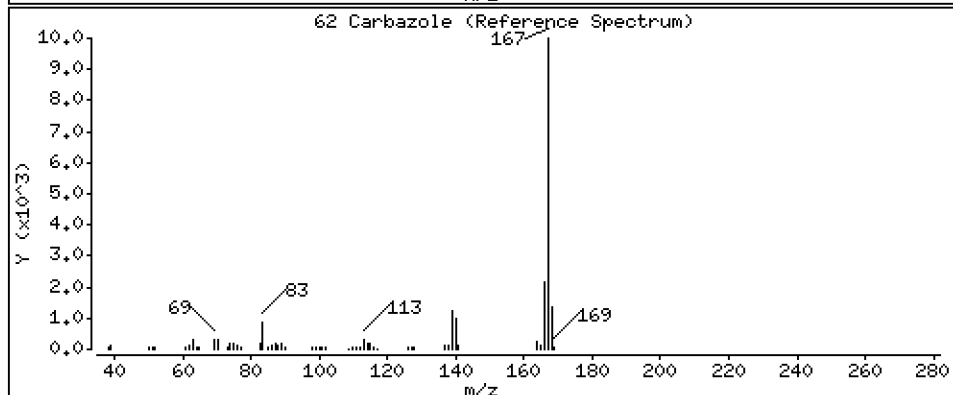
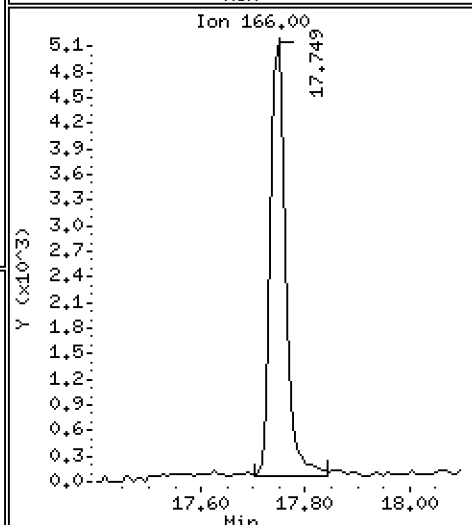
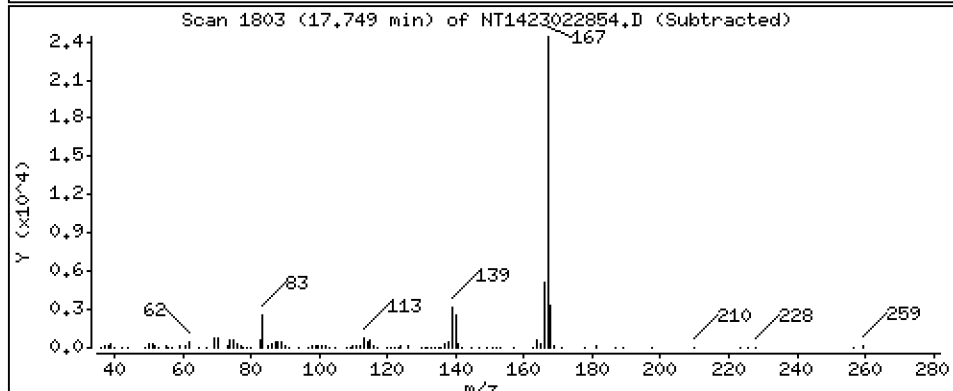
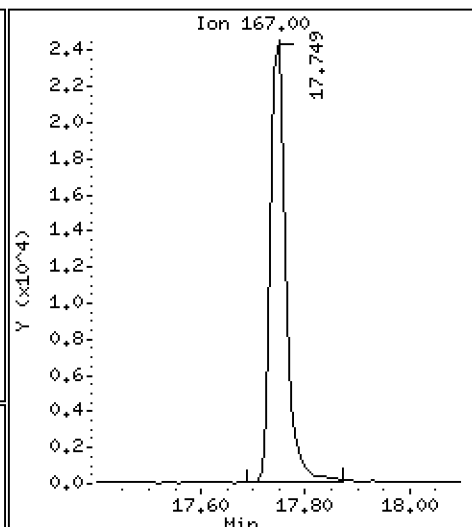
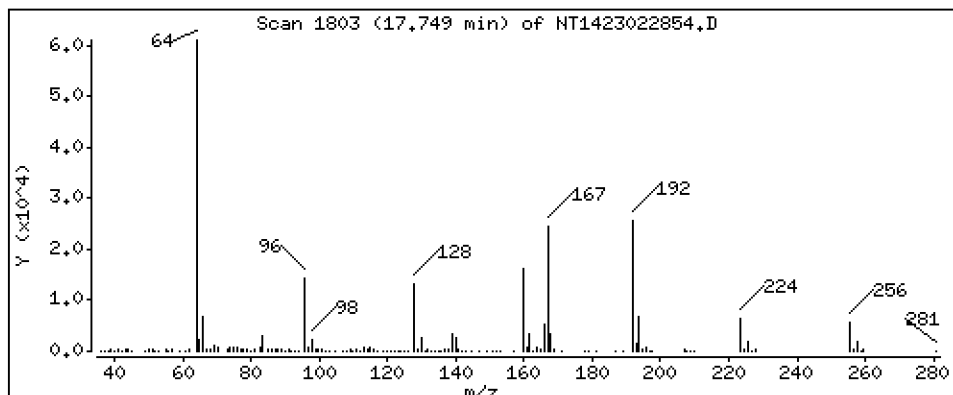
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

62 Carbazole

Concentration: 5.519 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

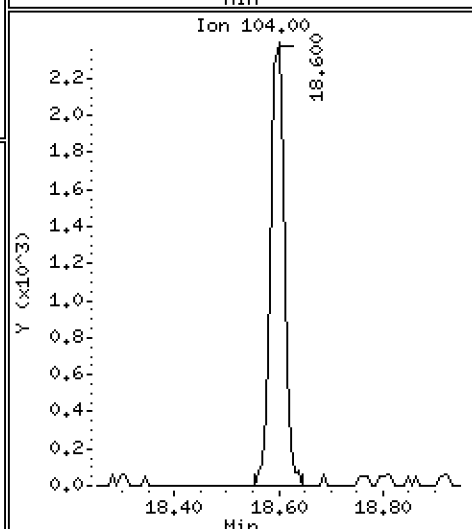
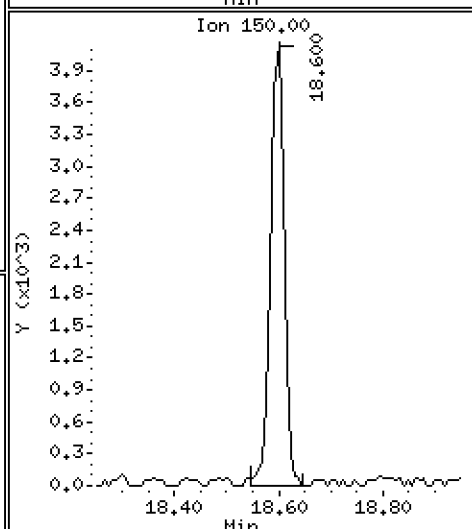
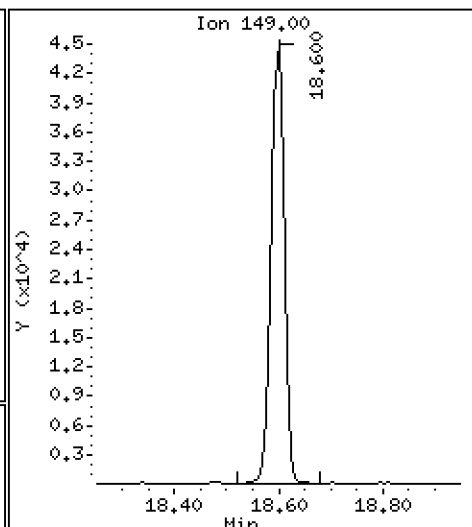
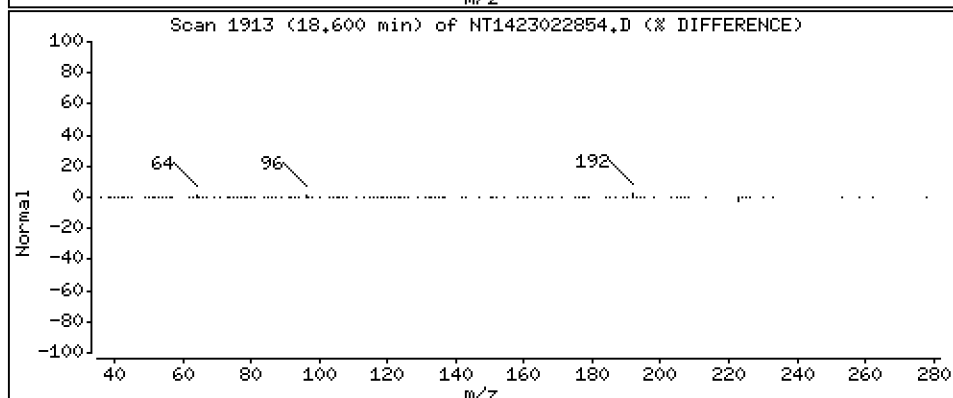
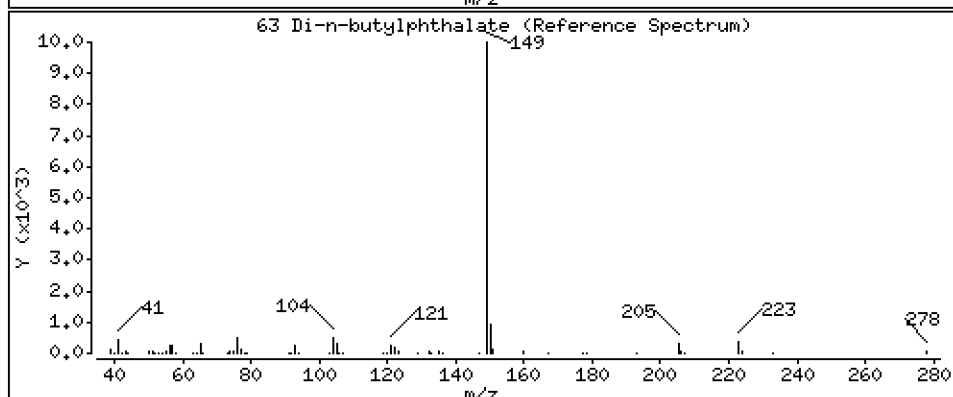
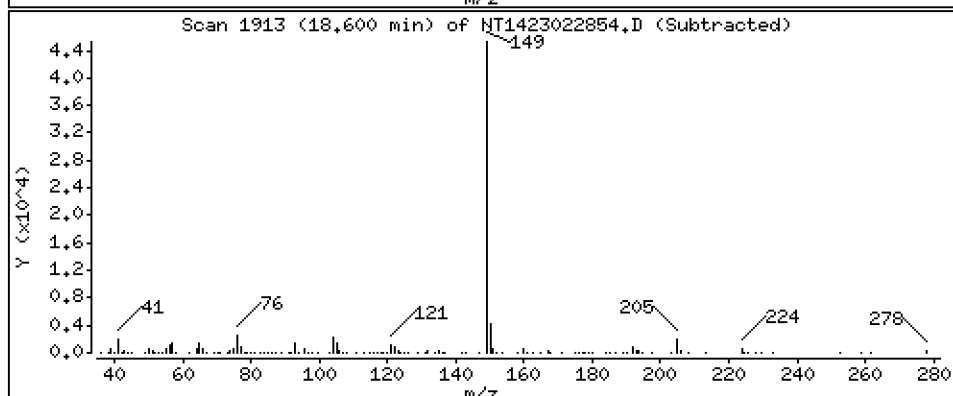
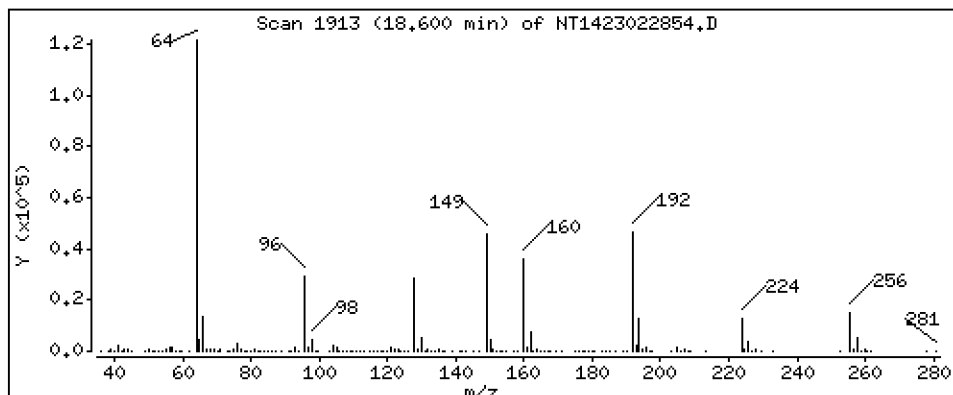
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 6,622 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

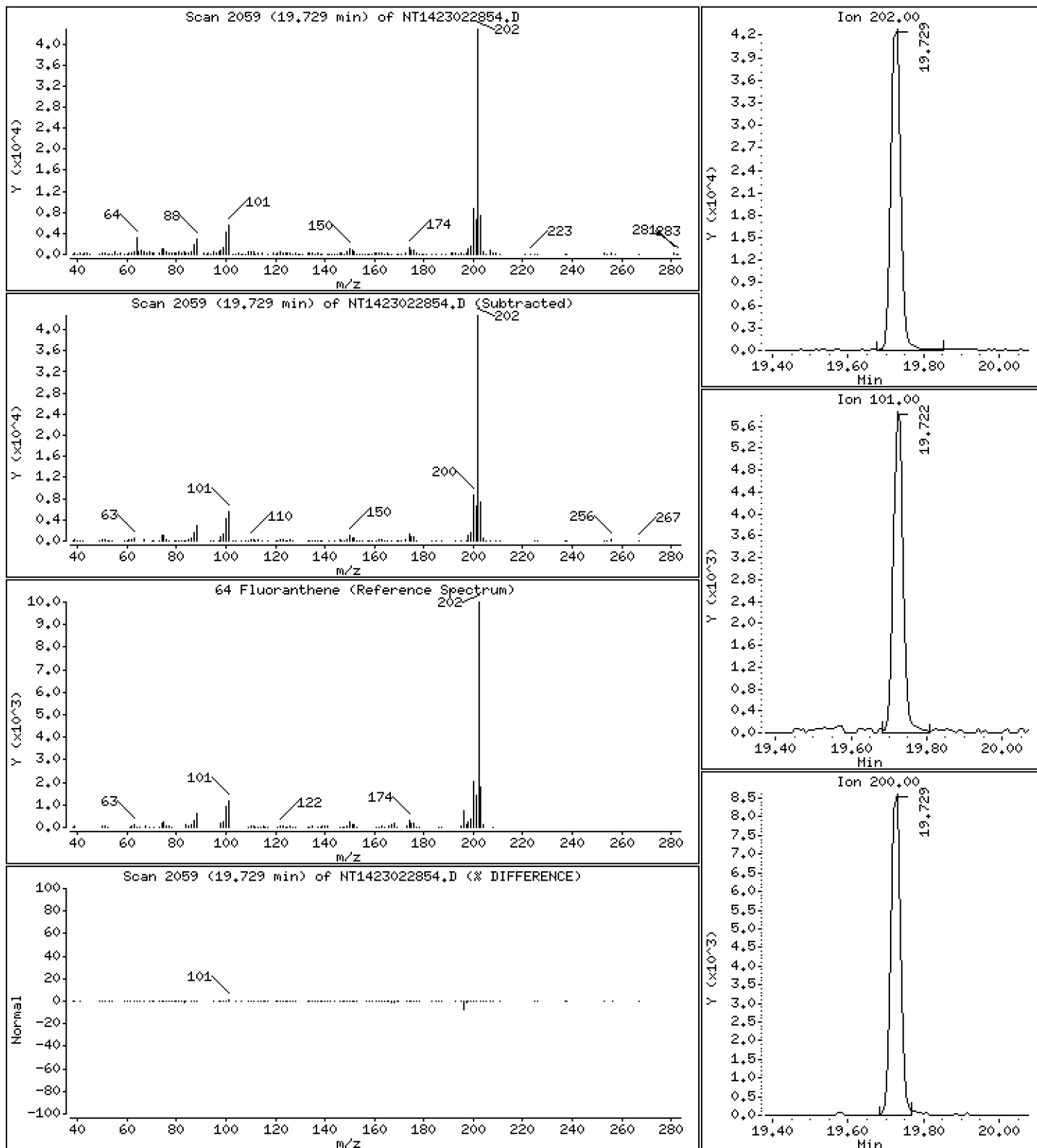
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 5,833 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

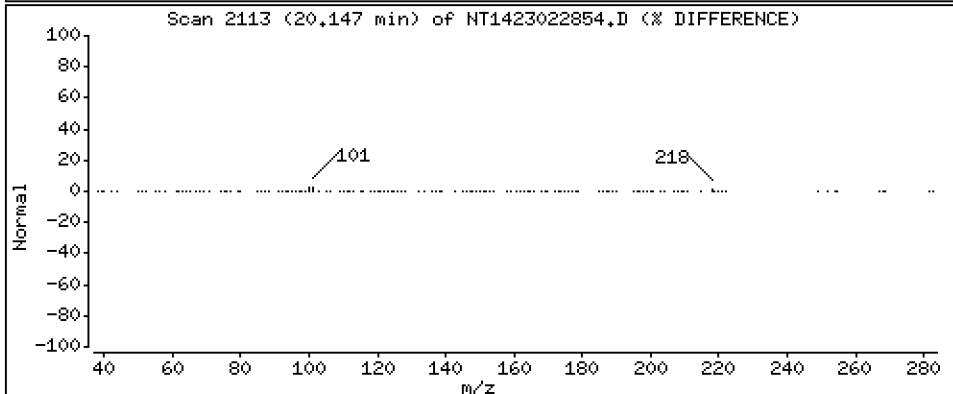
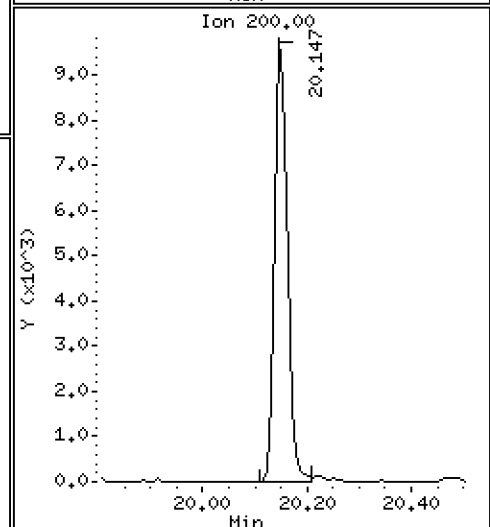
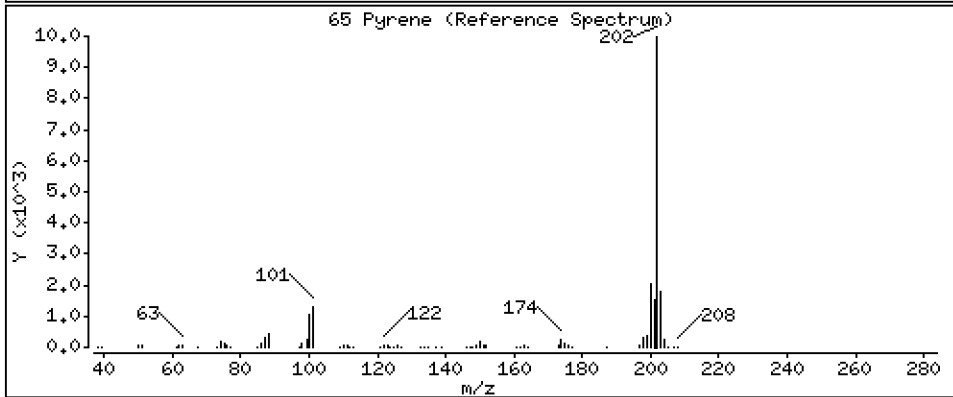
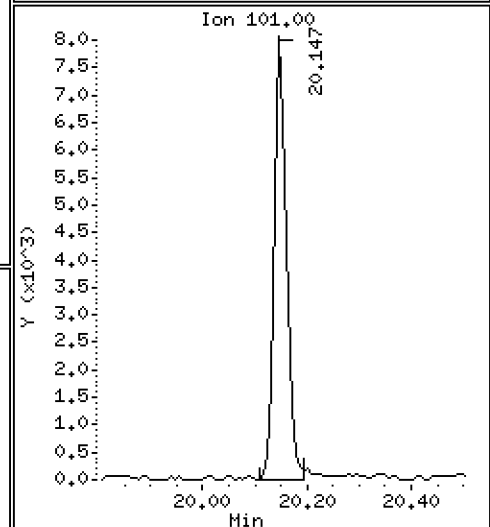
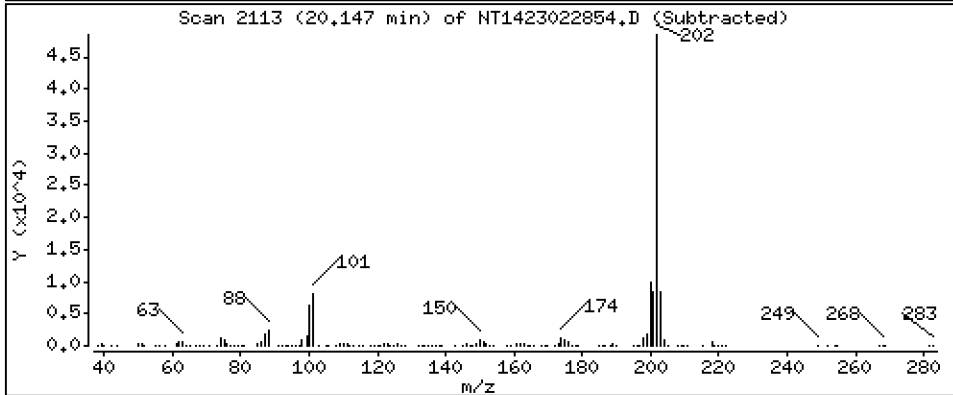
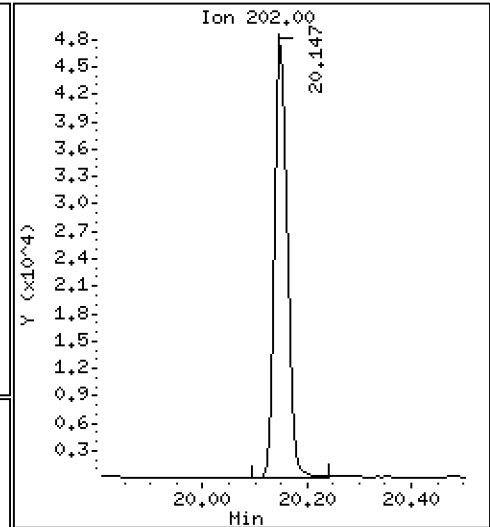
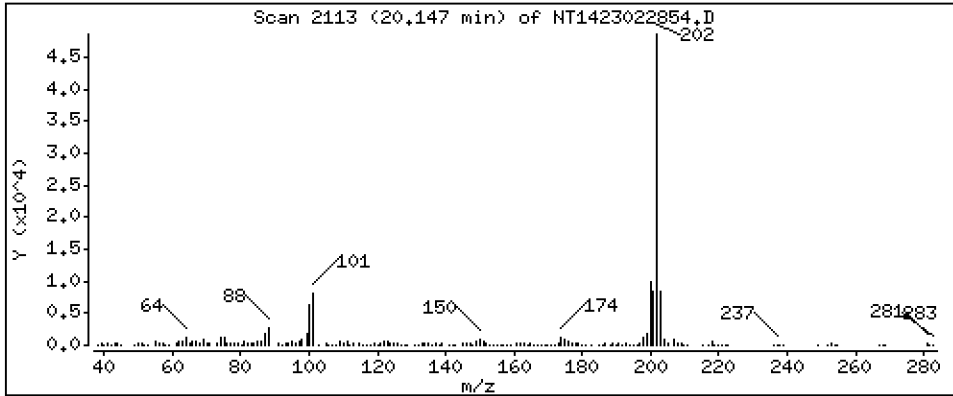
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 6,036 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

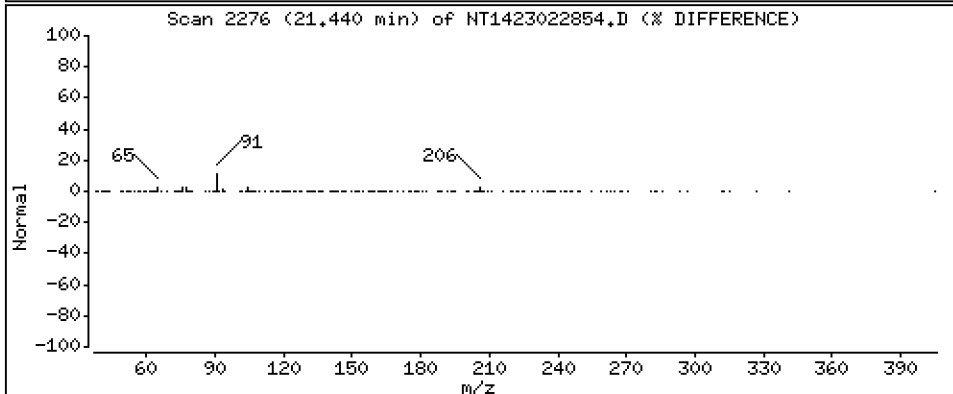
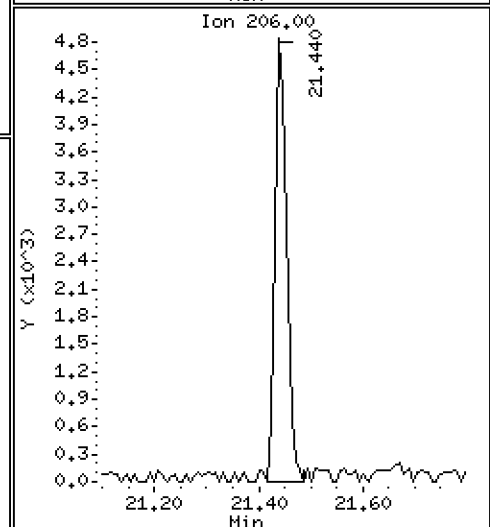
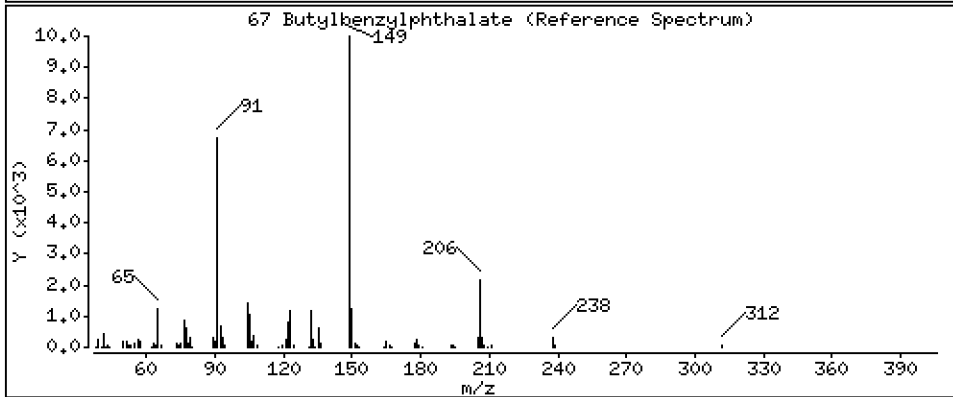
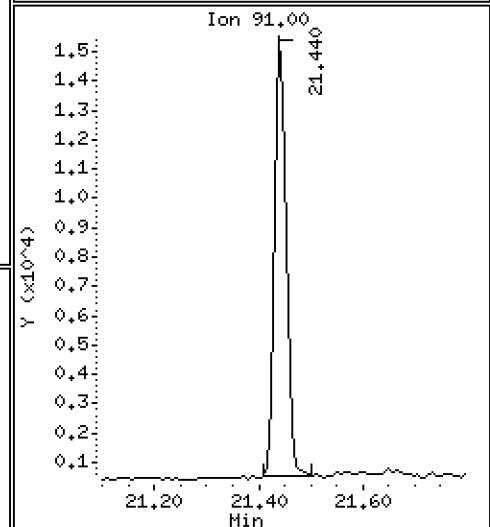
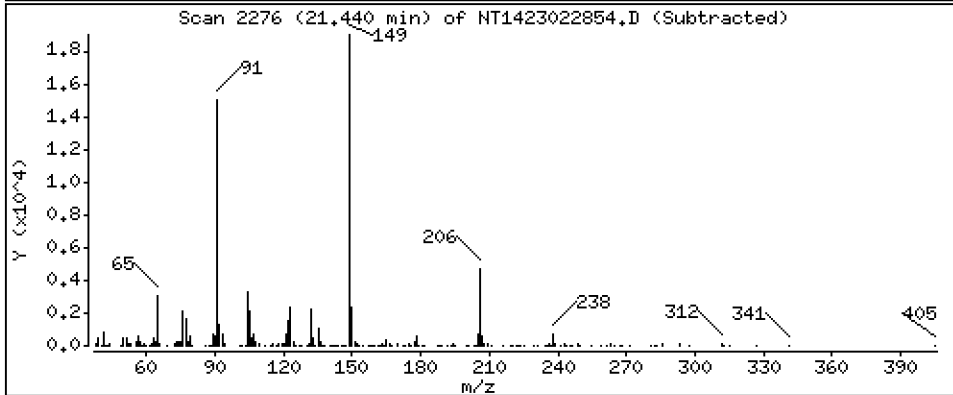
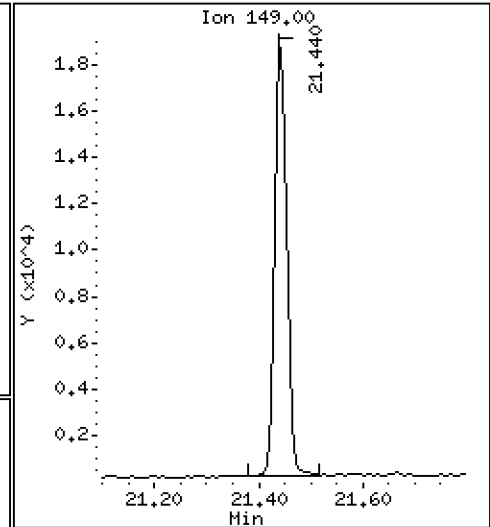
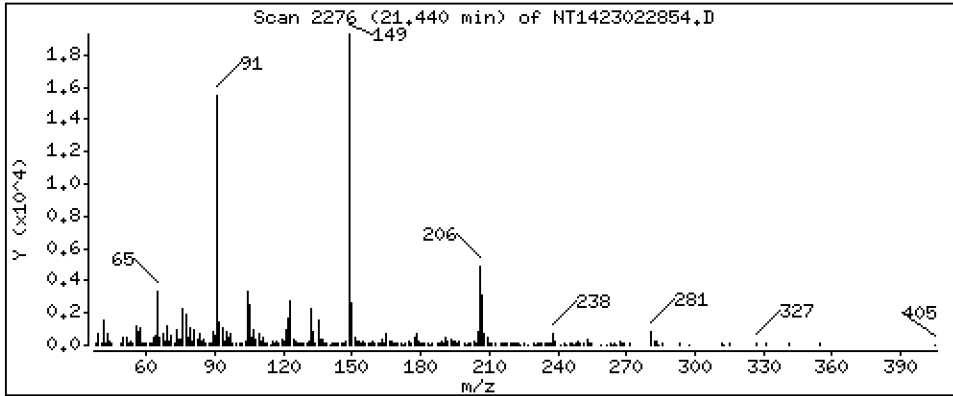
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 6,356 ug/mL





Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

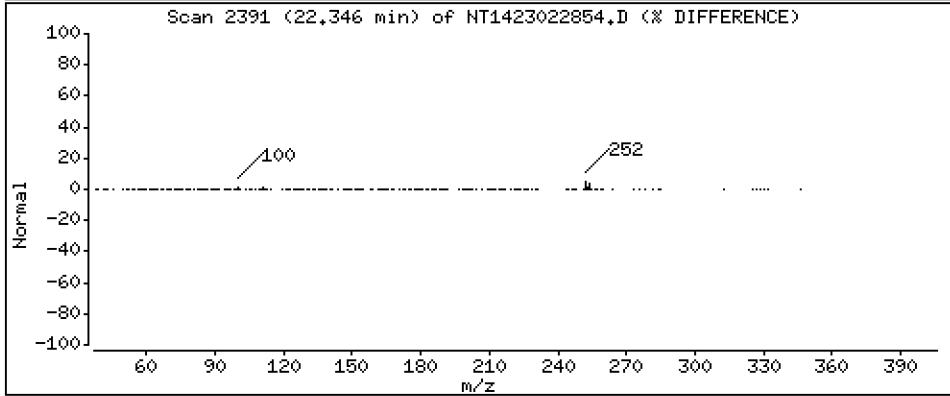
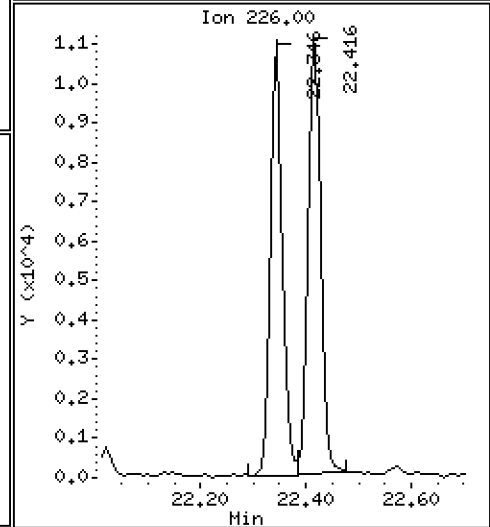
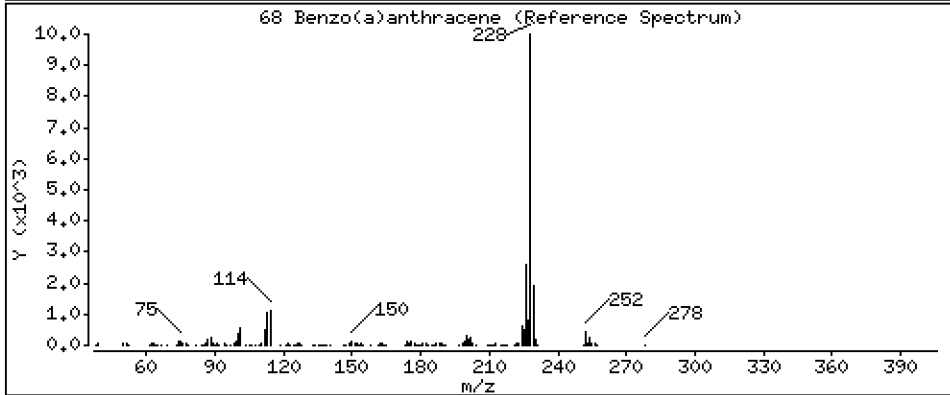
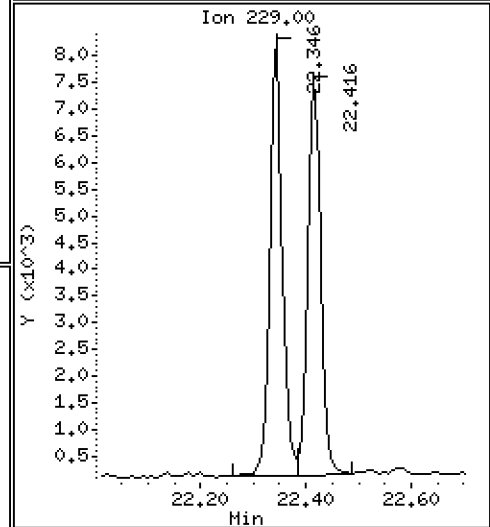
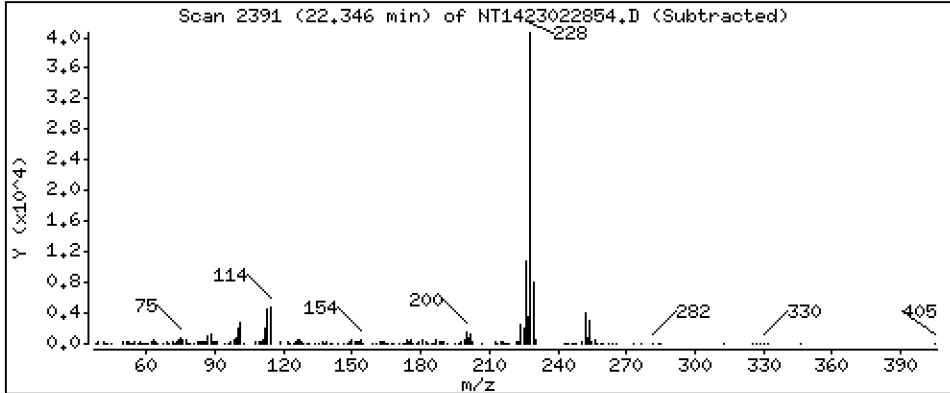
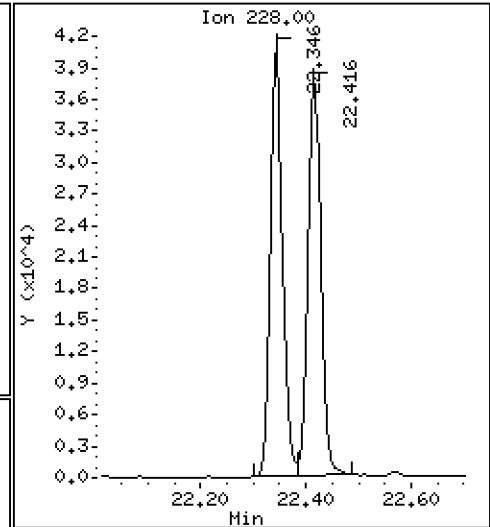
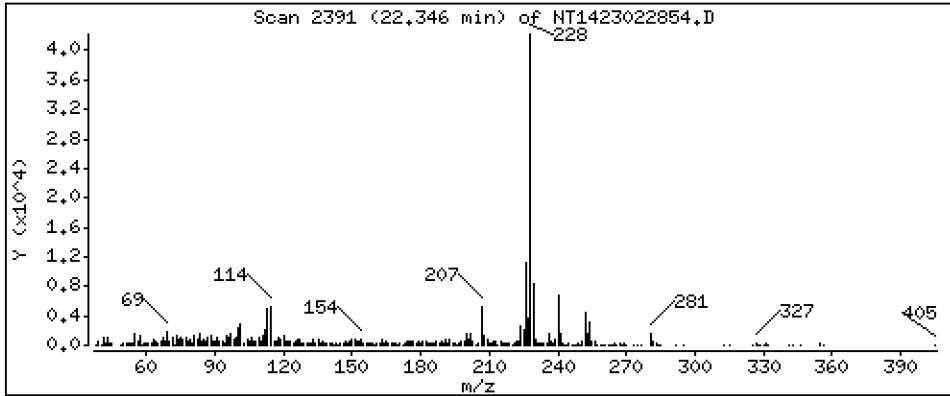
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 6,005 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

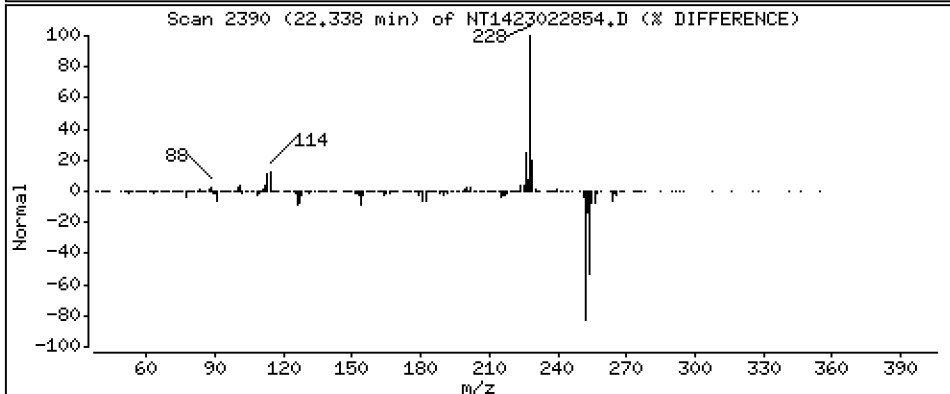
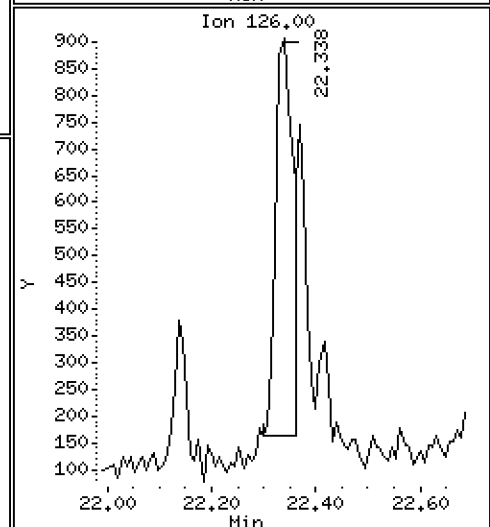
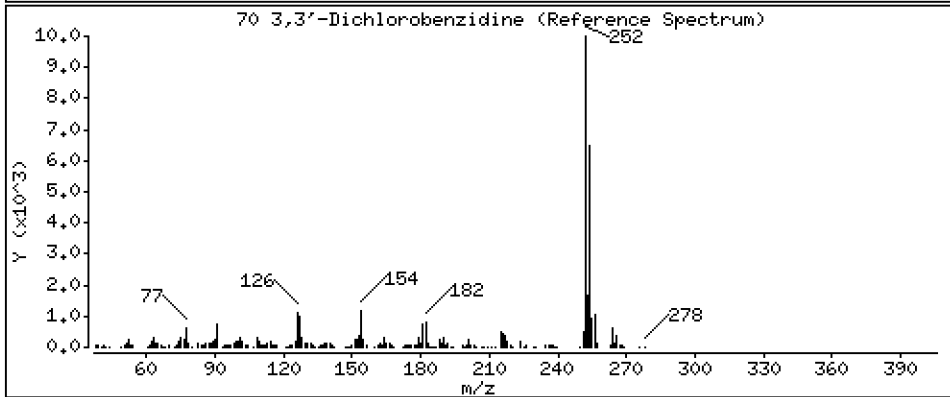
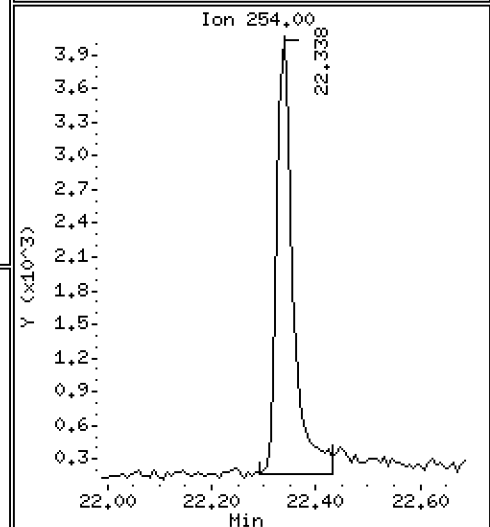
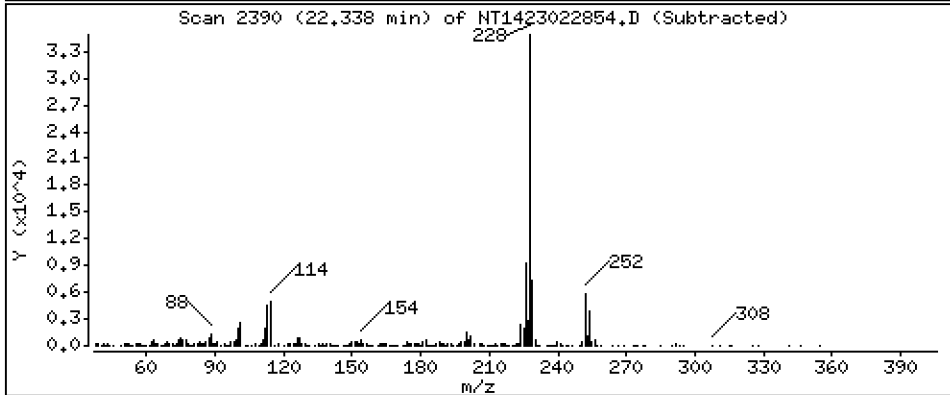
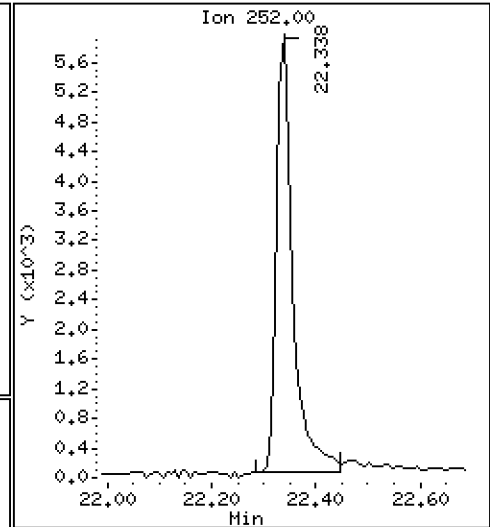
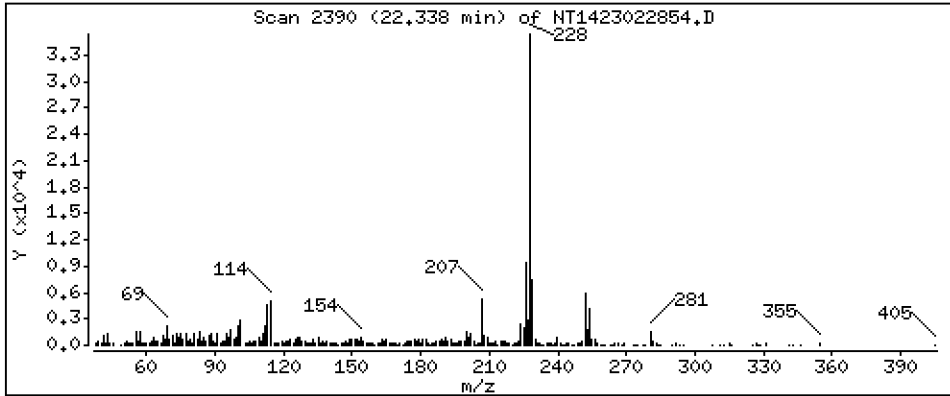
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 3,961 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

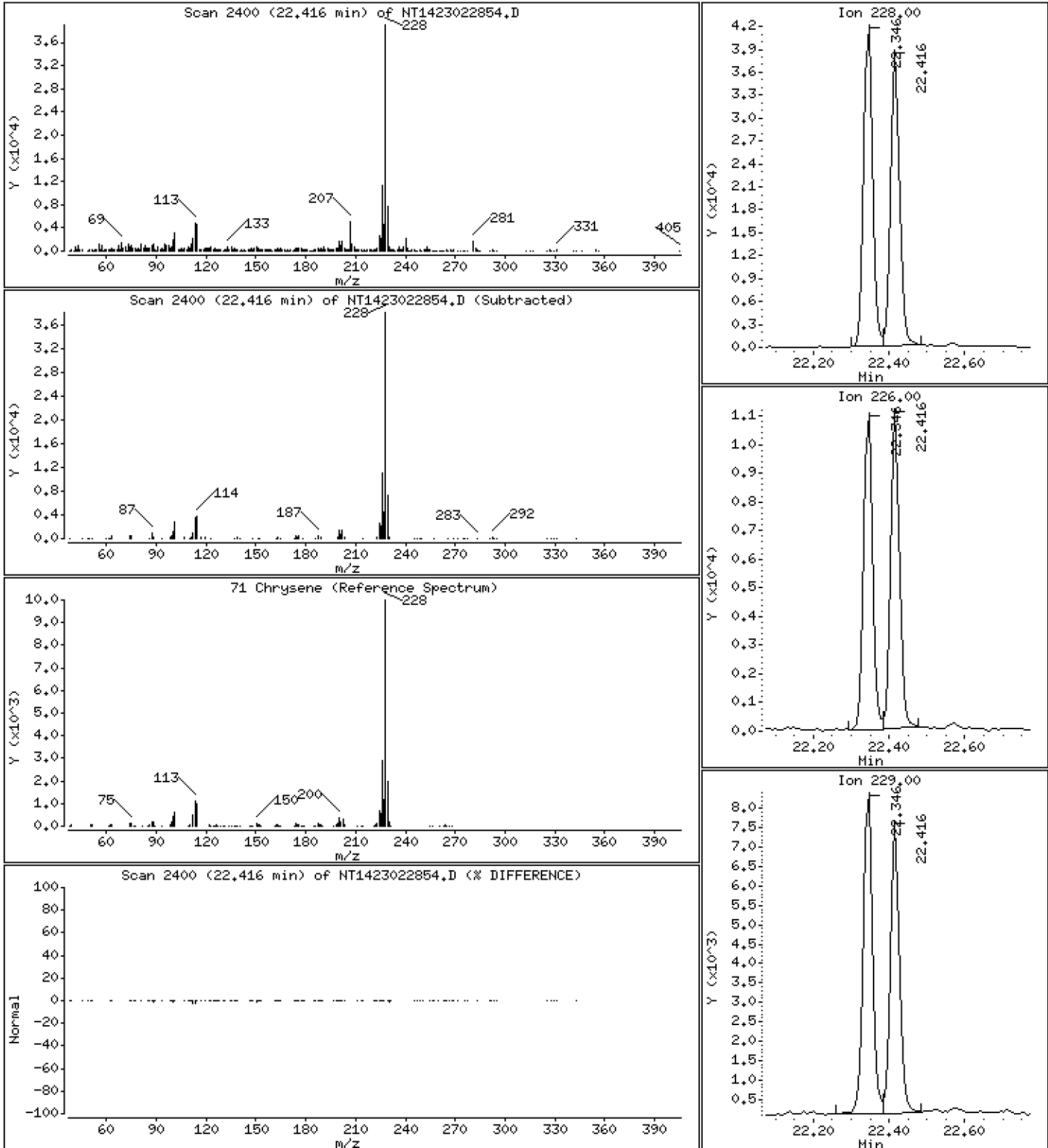
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 5,884 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

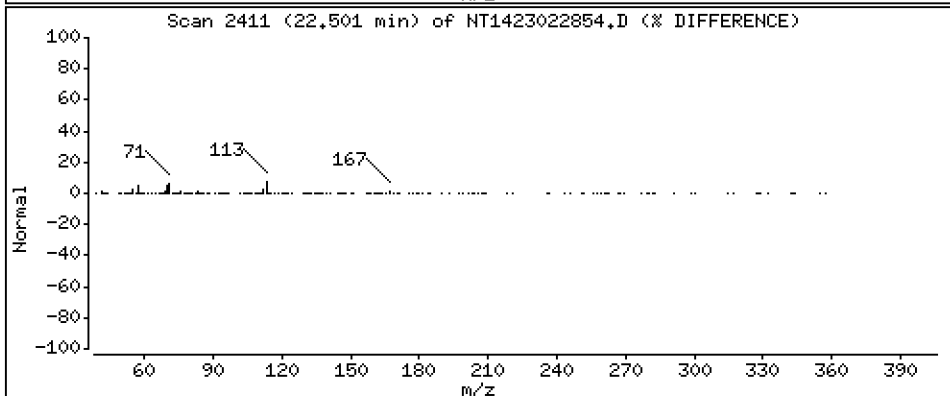
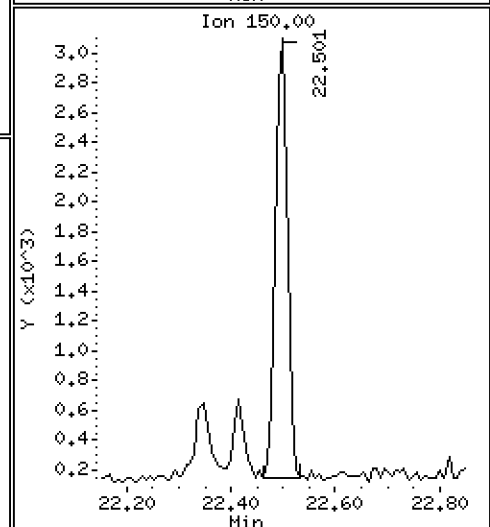
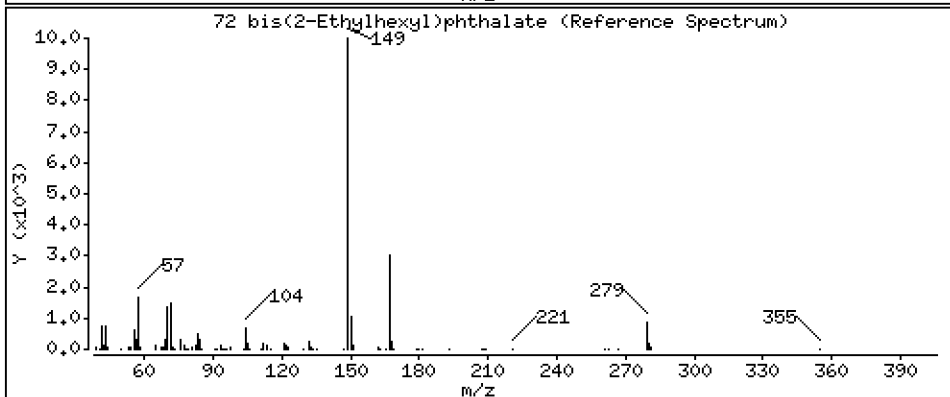
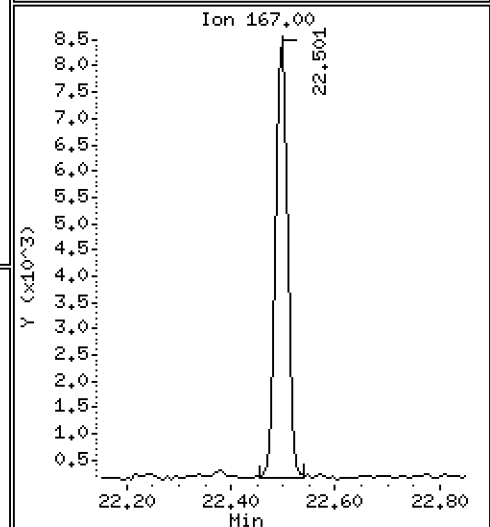
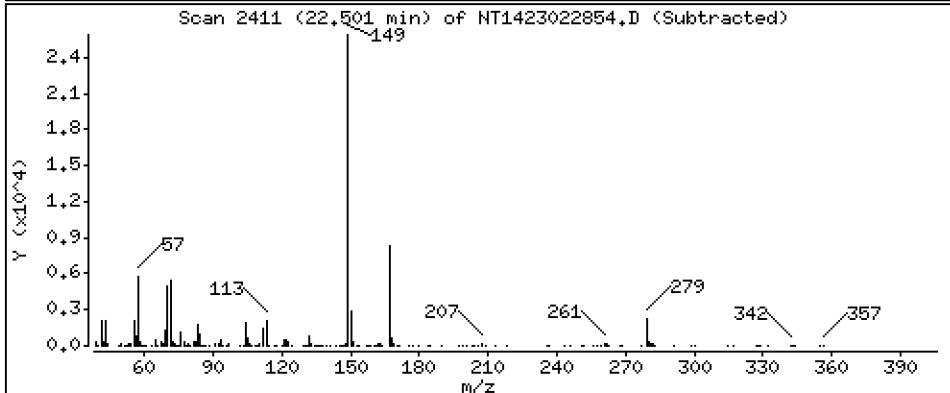
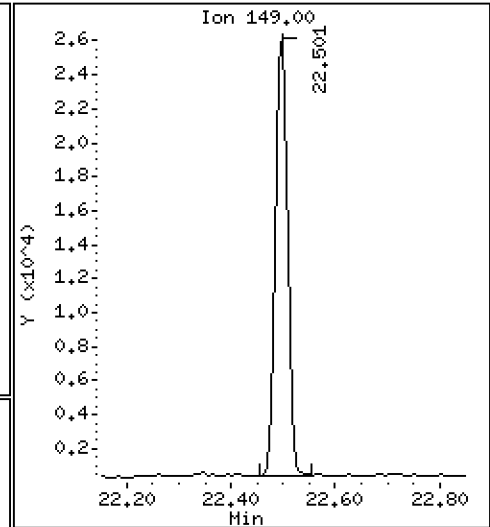
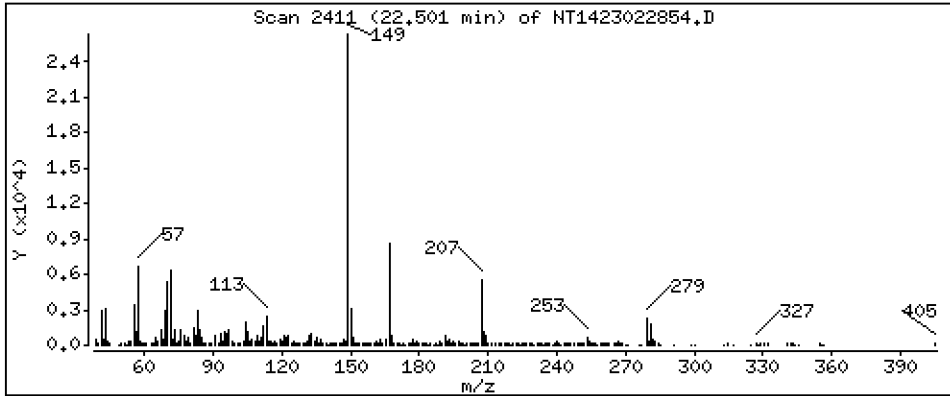
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,509 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

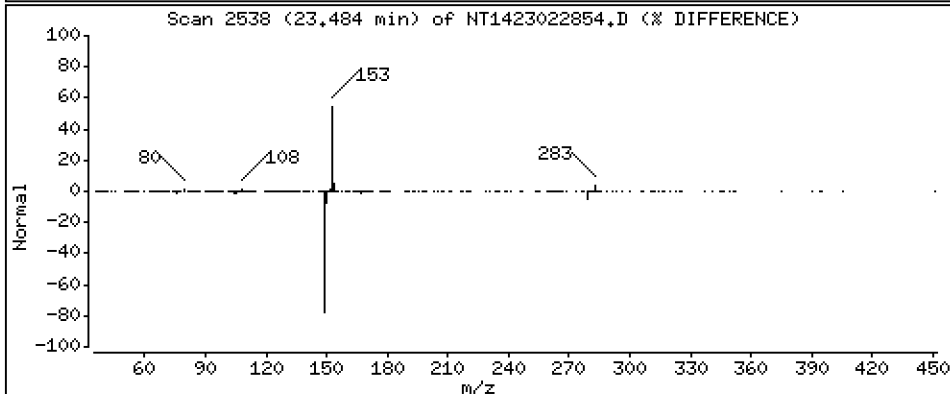
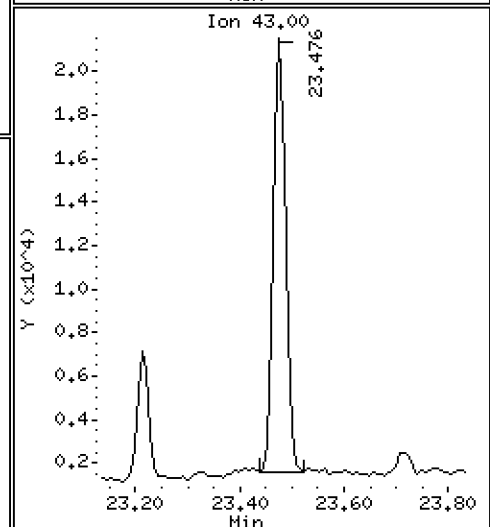
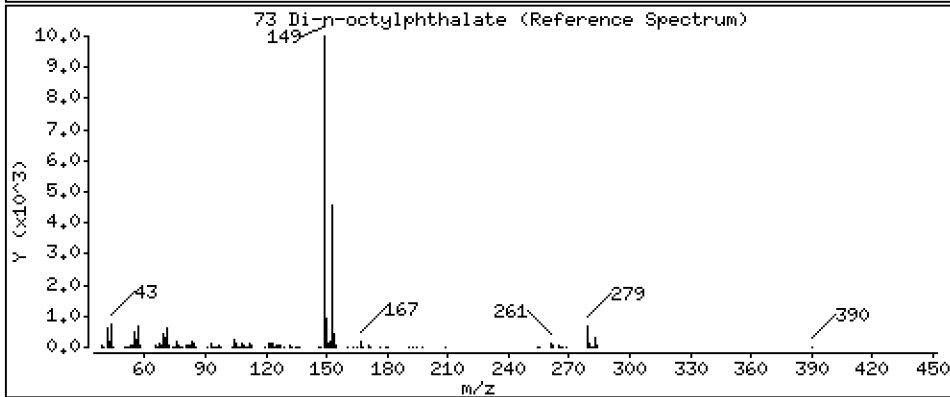
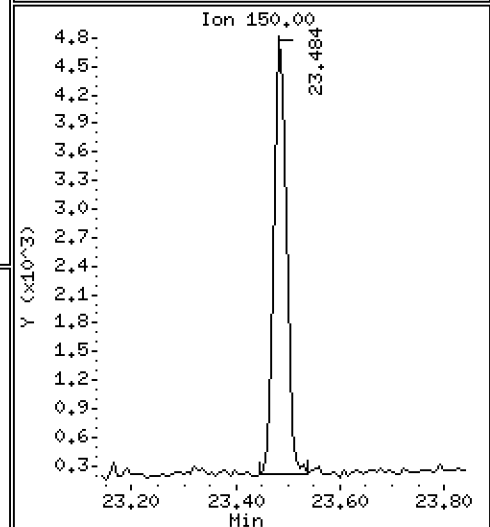
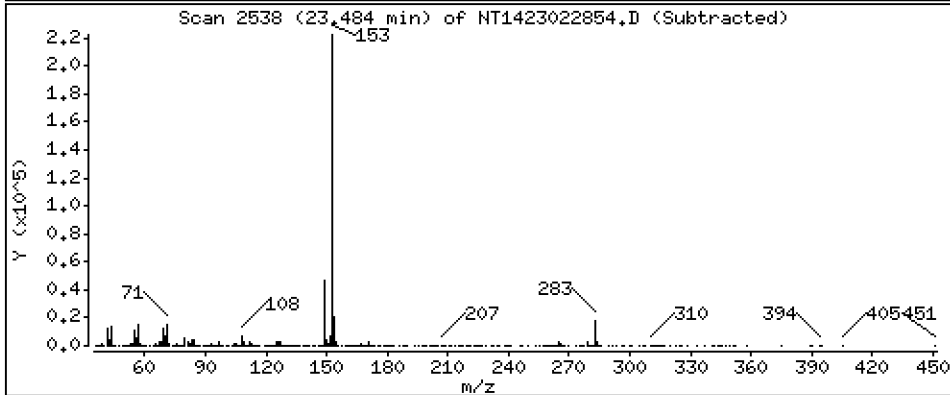
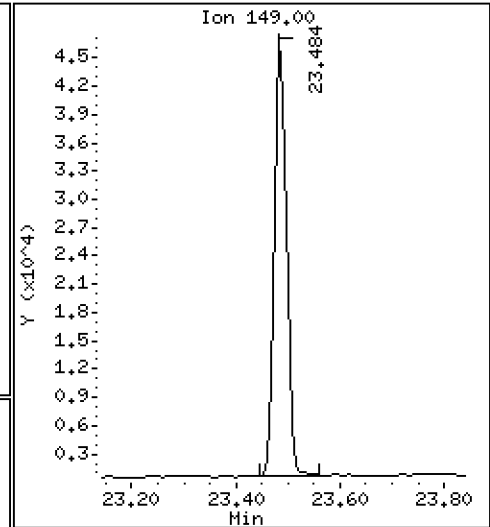
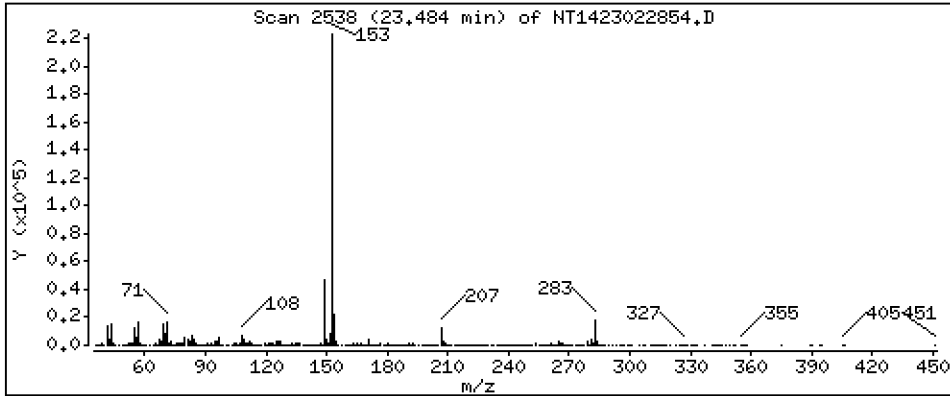
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,728 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

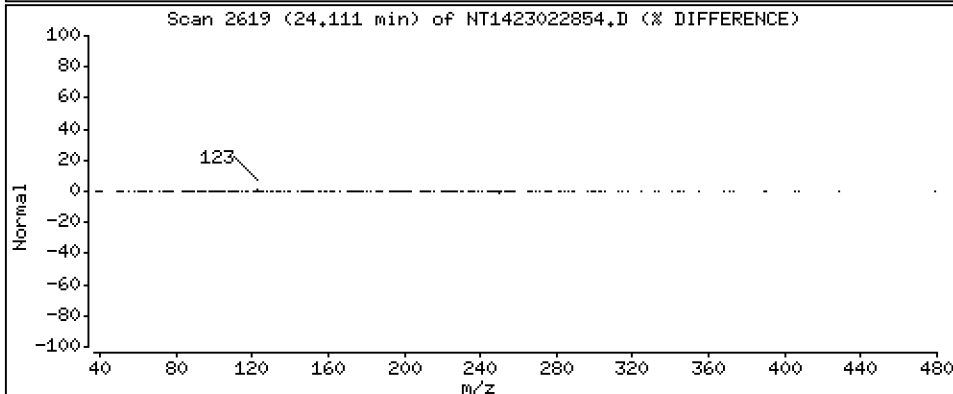
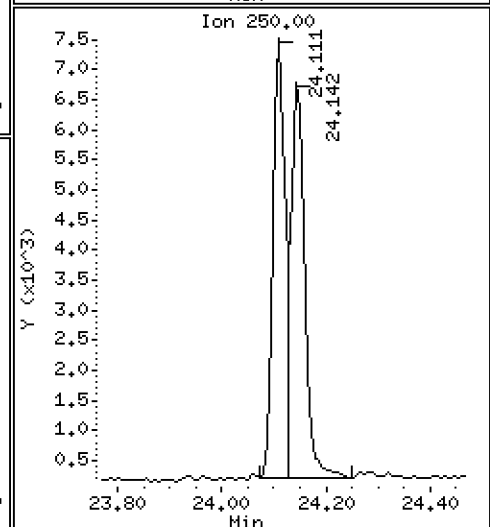
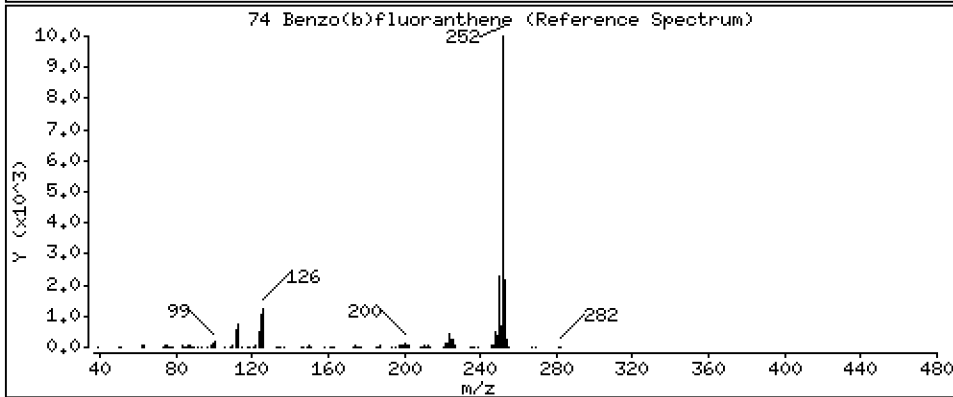
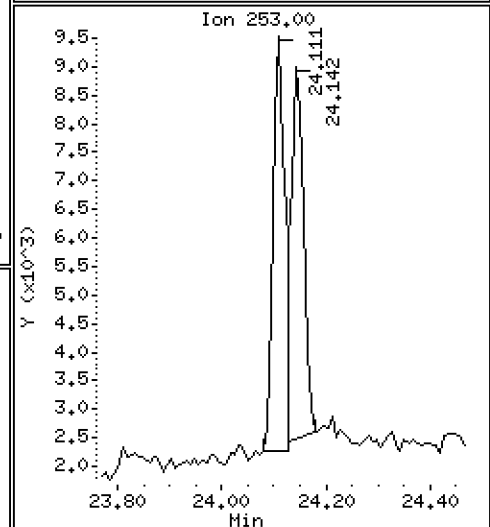
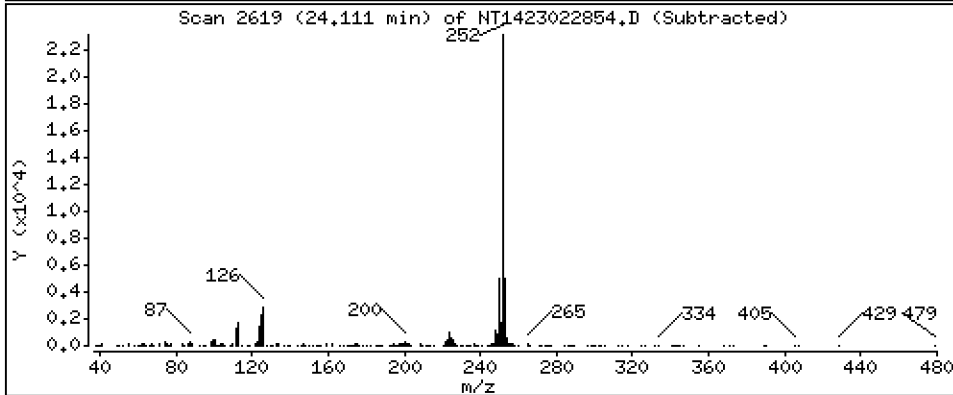
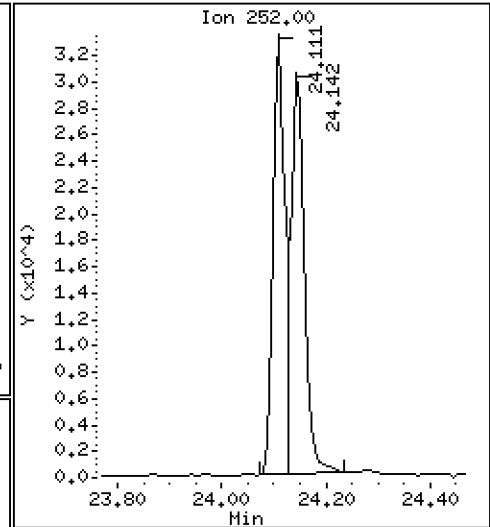
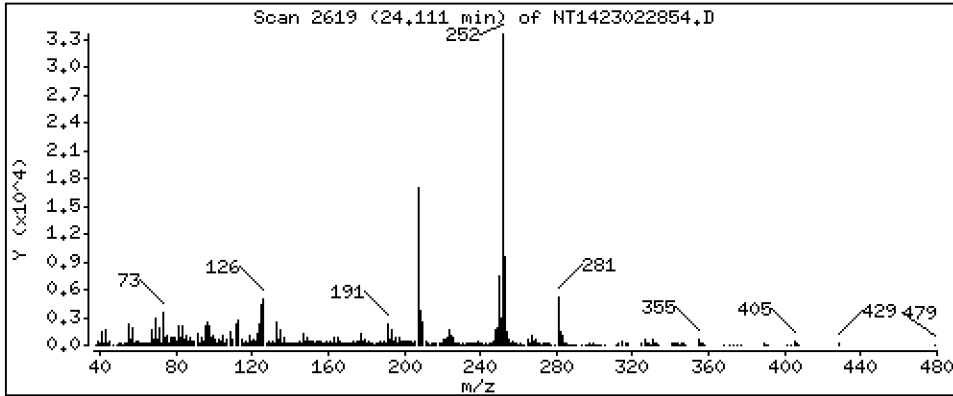
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 7,219 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

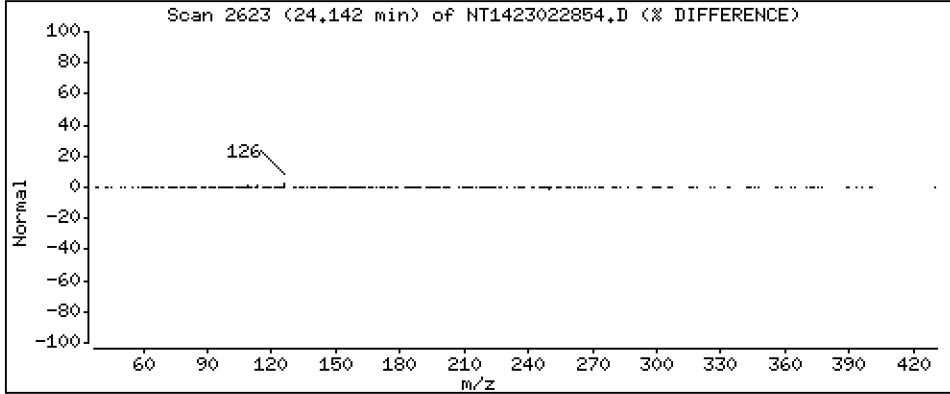
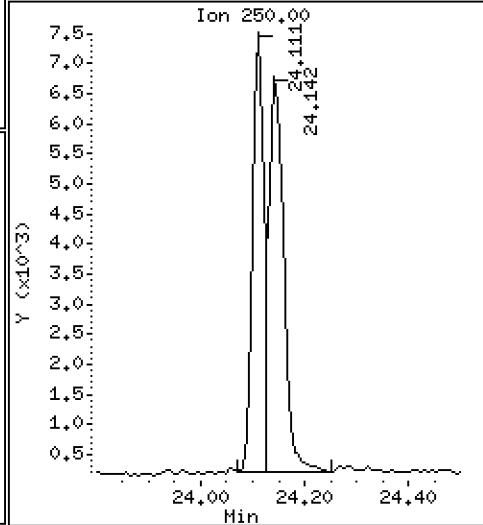
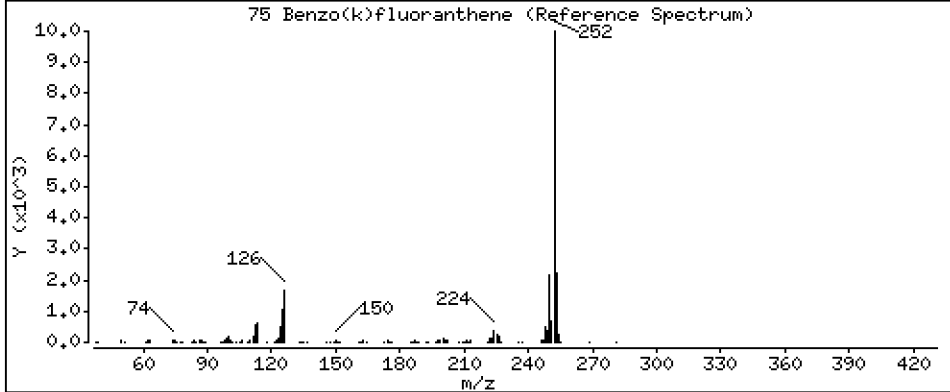
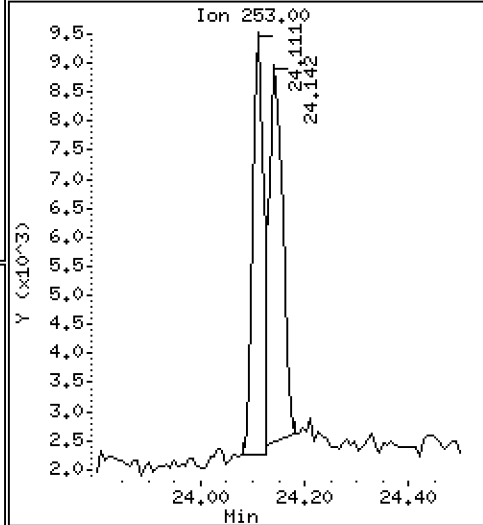
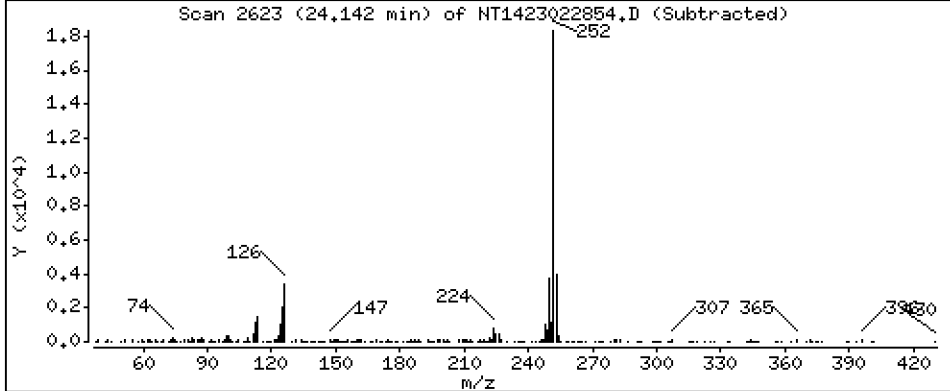
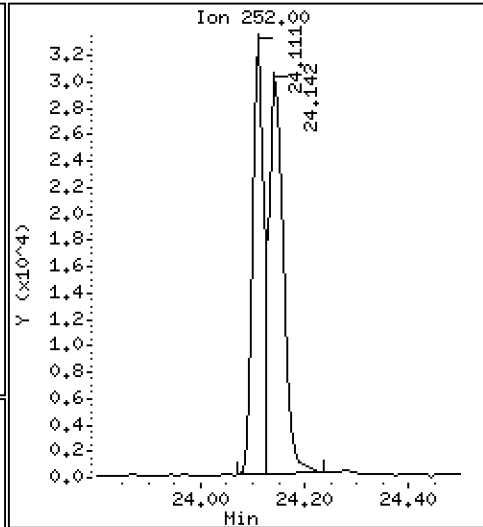
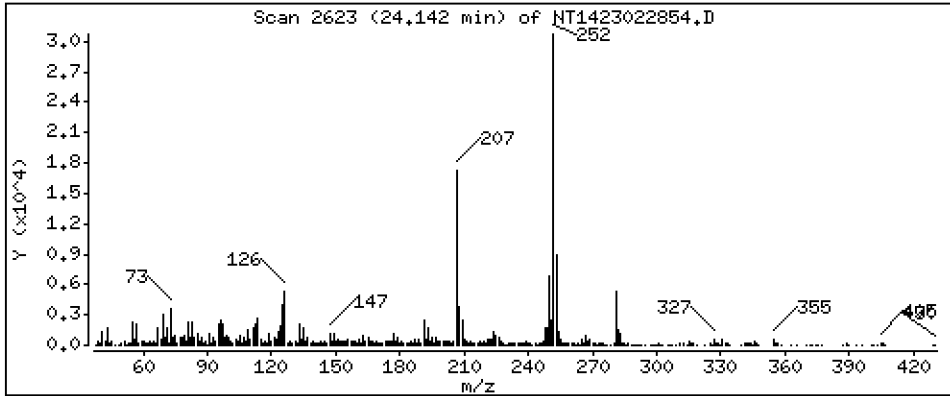
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 7,538 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

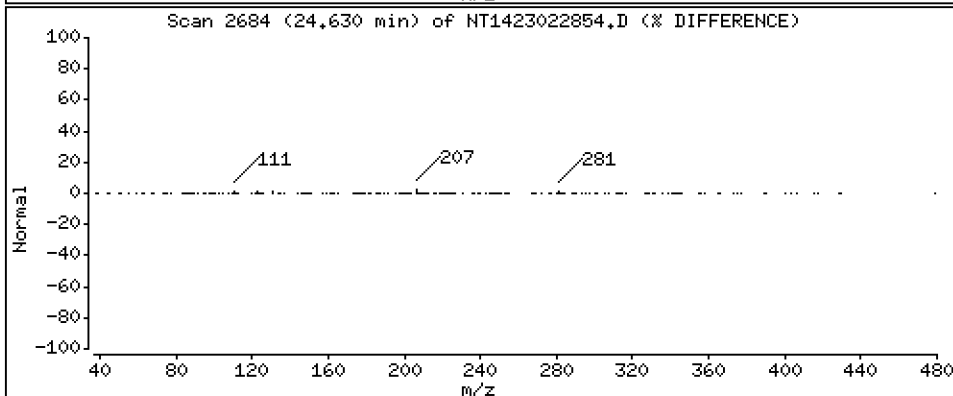
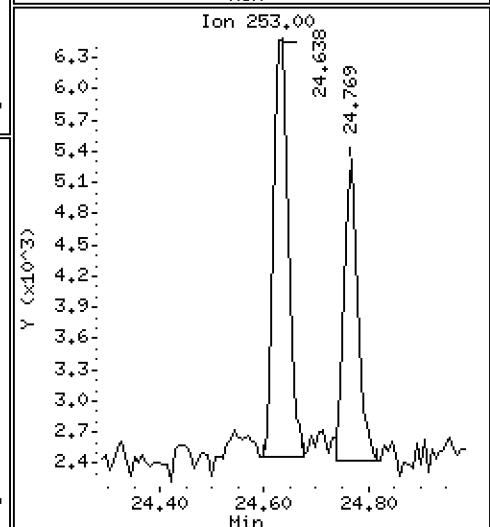
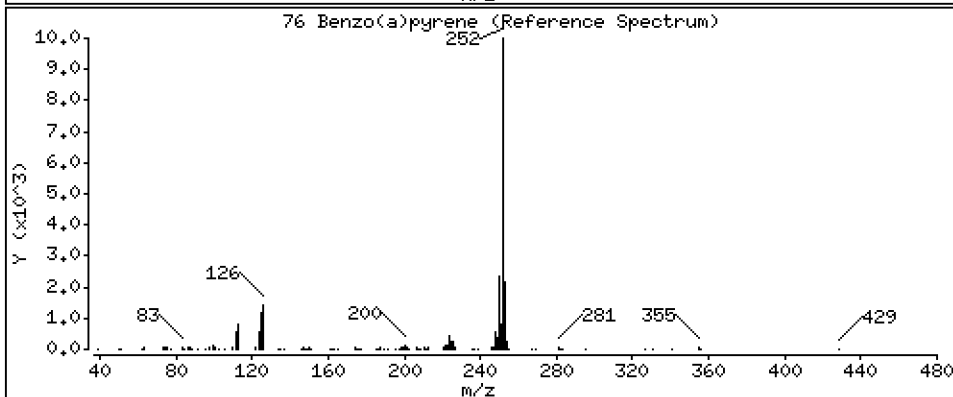
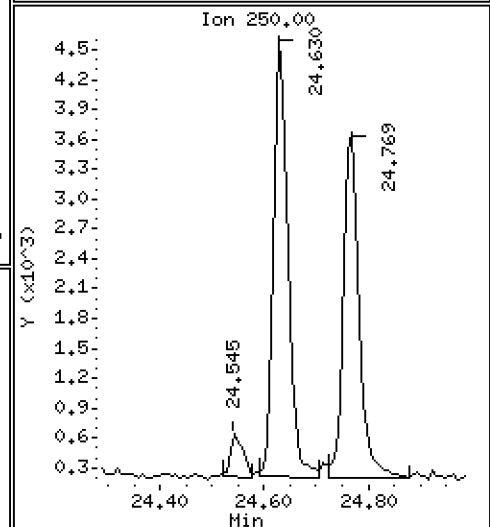
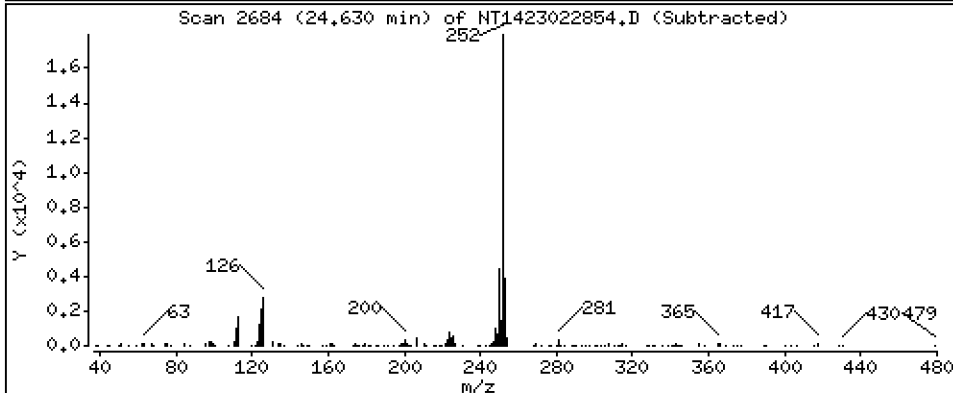
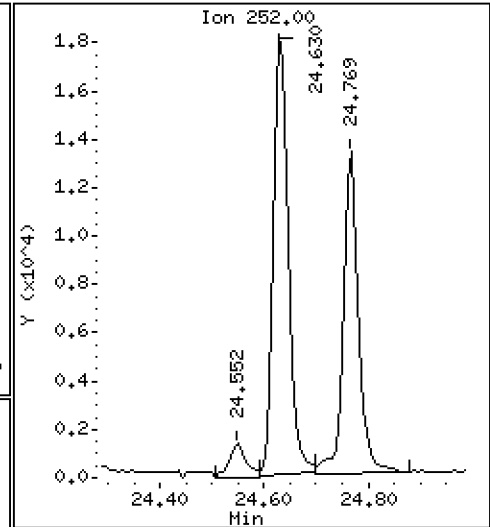
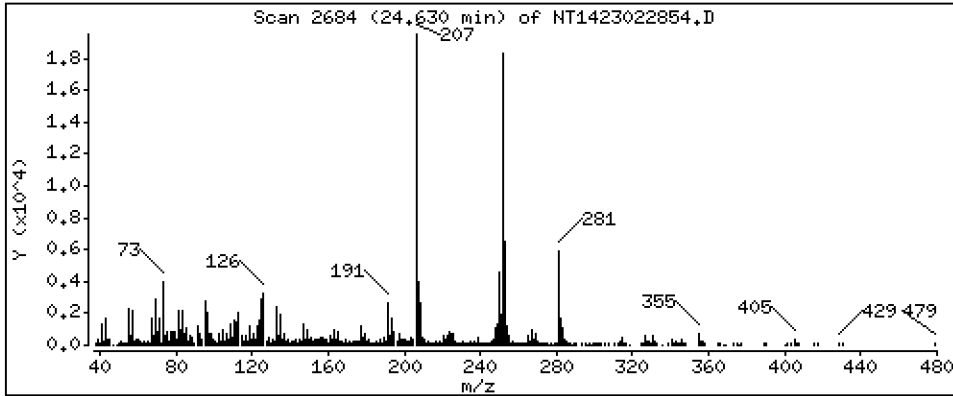
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 5,574 ug/mL





Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

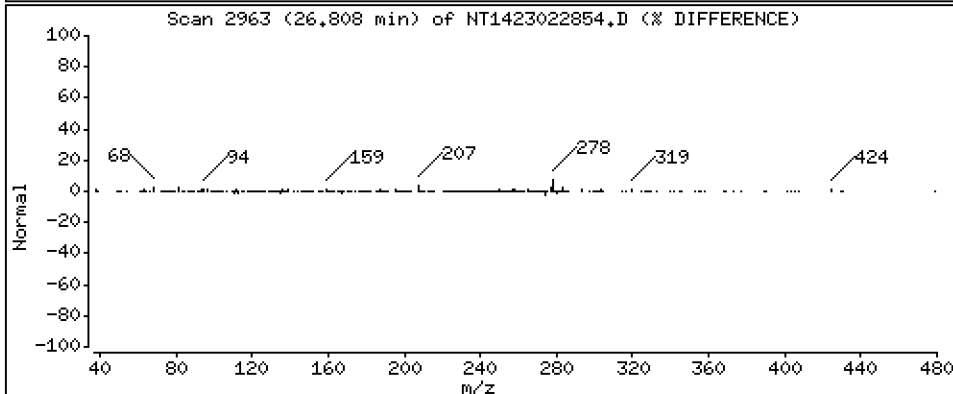
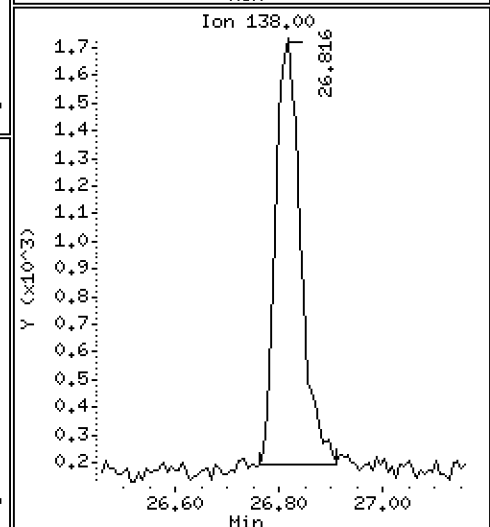
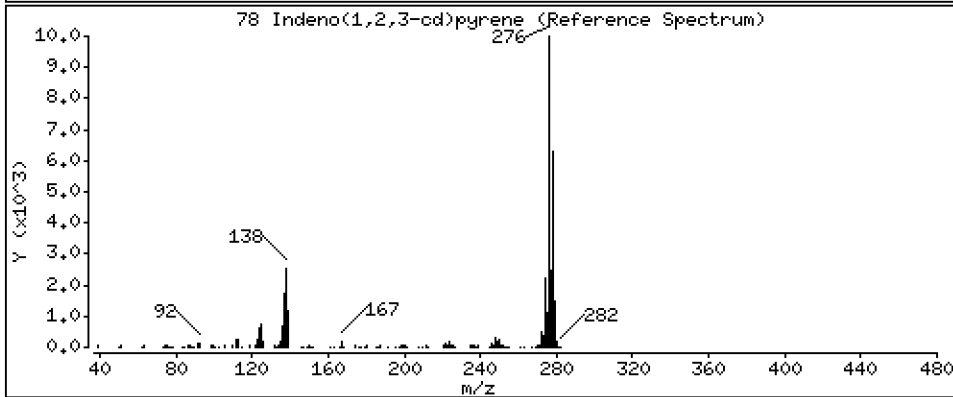
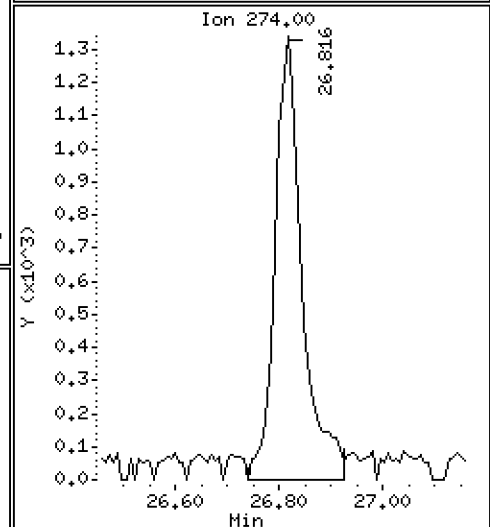
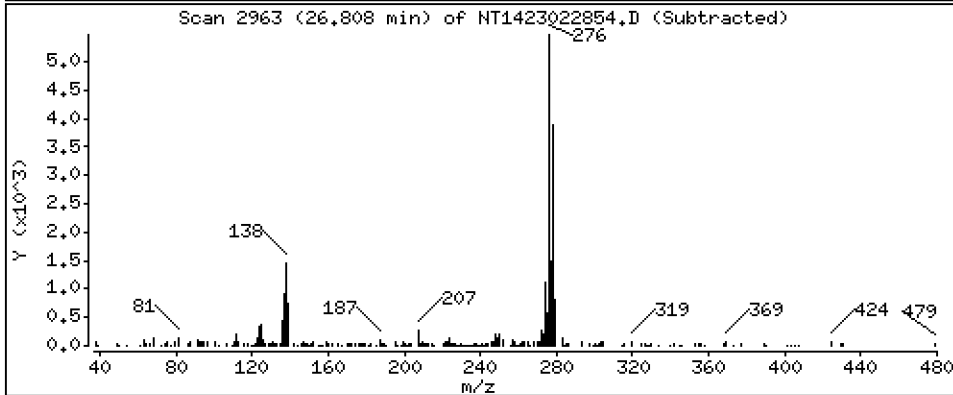
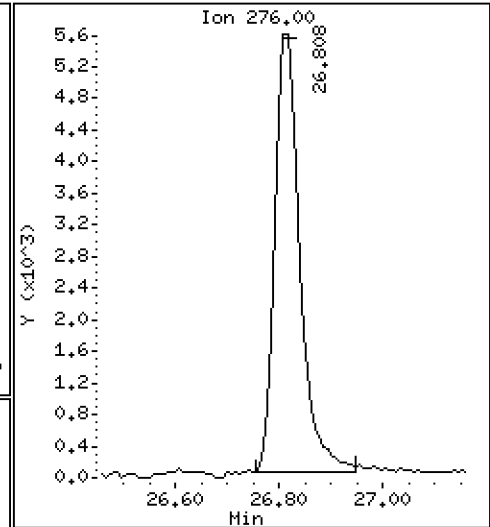
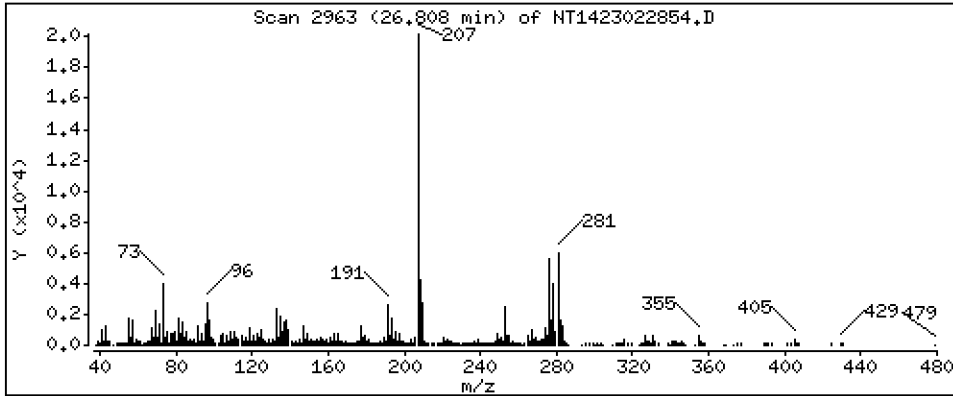
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 2,308 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

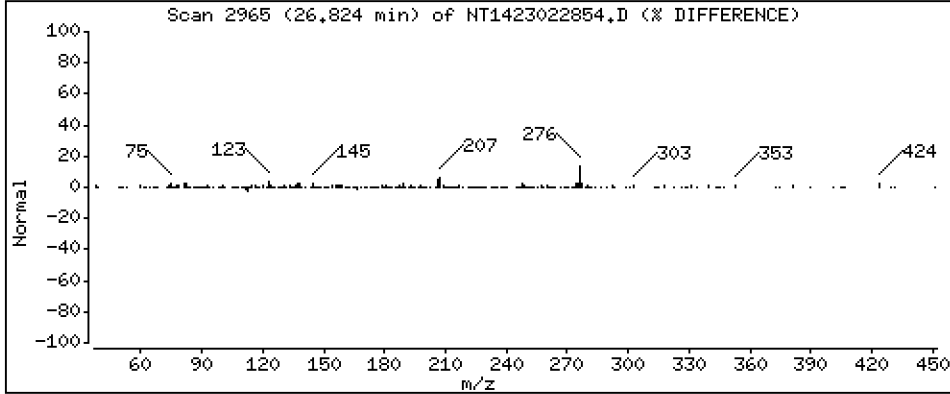
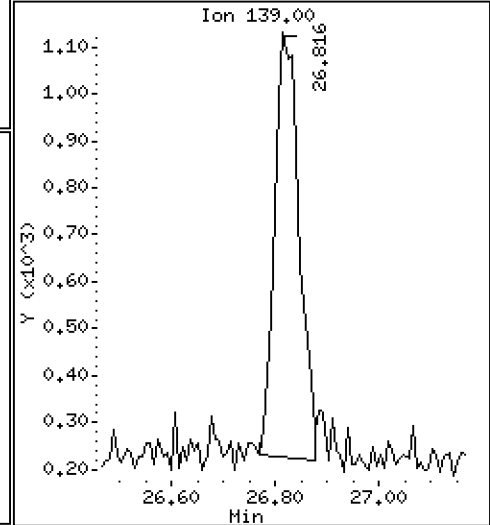
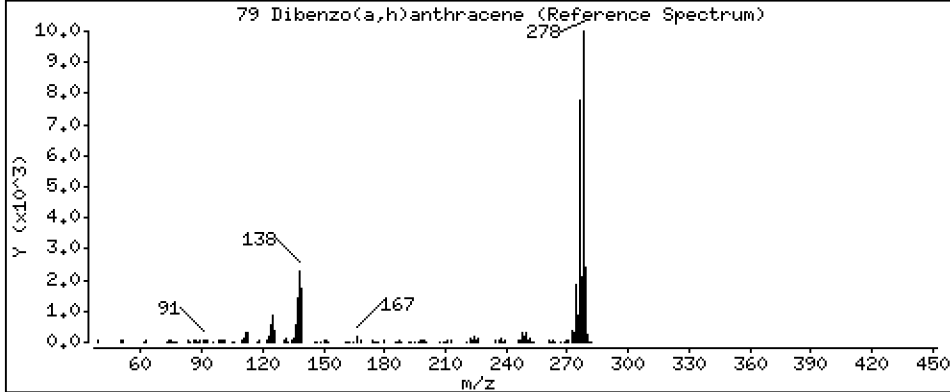
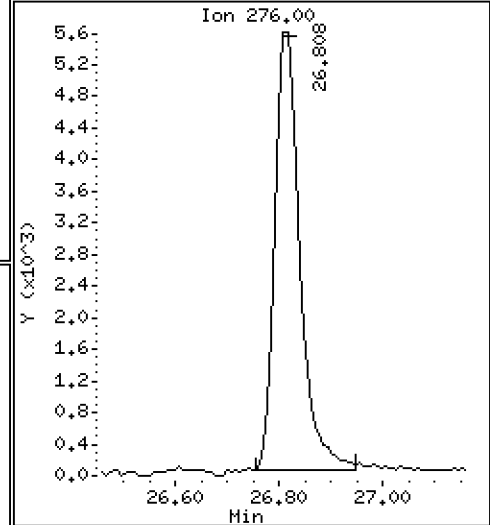
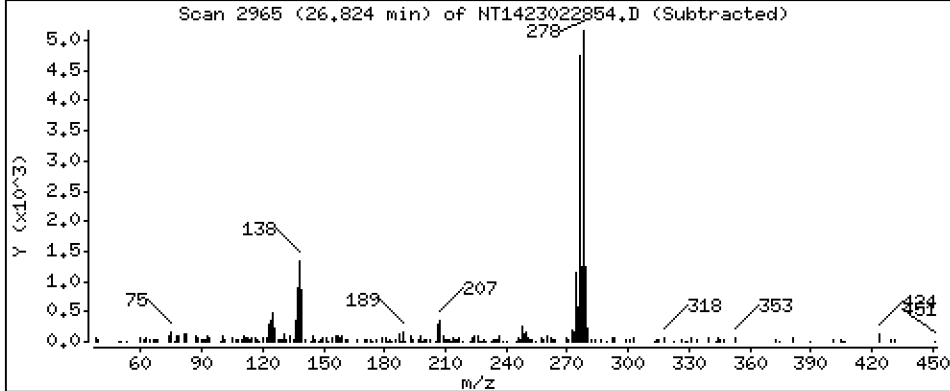
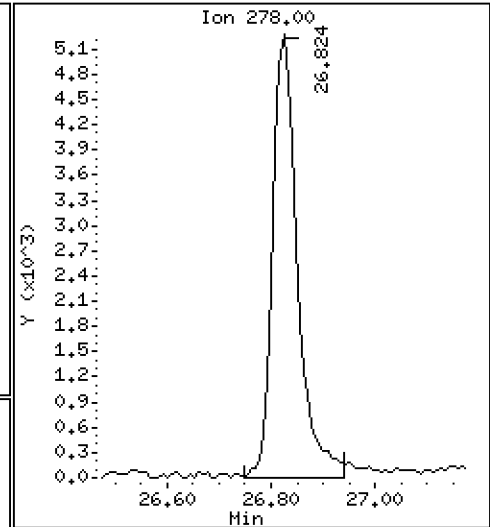
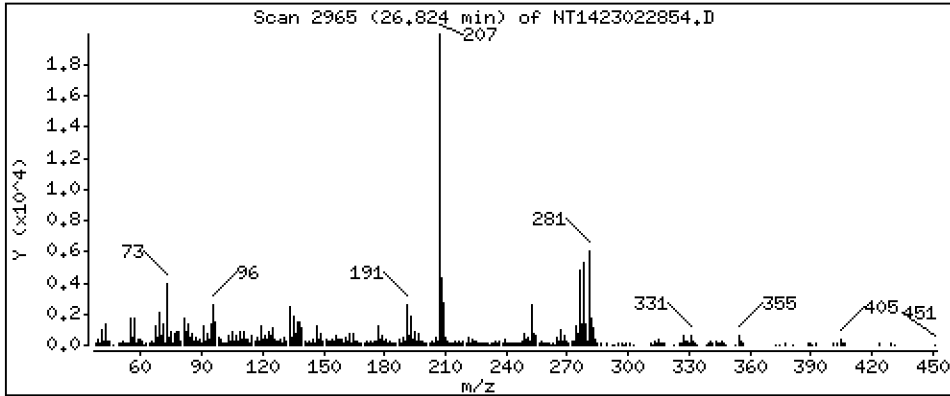
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 2,570 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

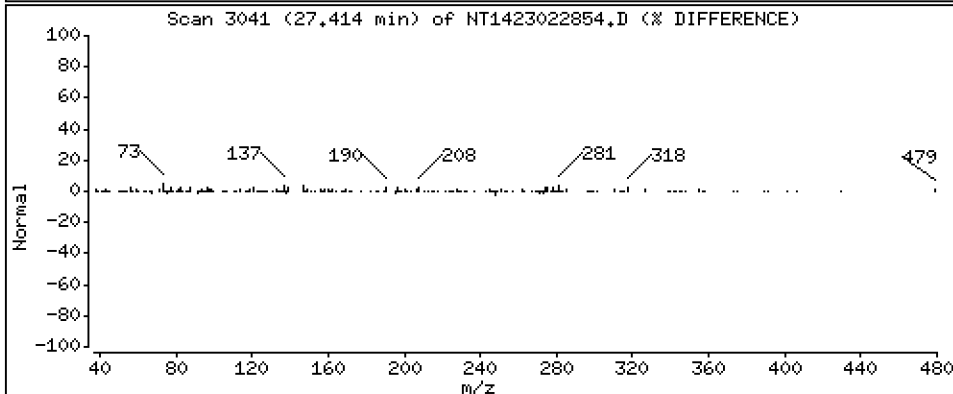
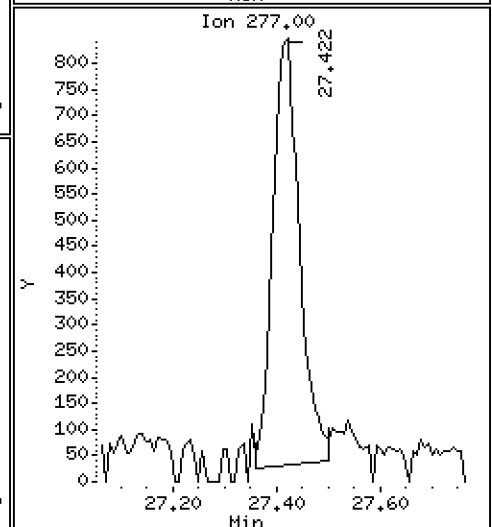
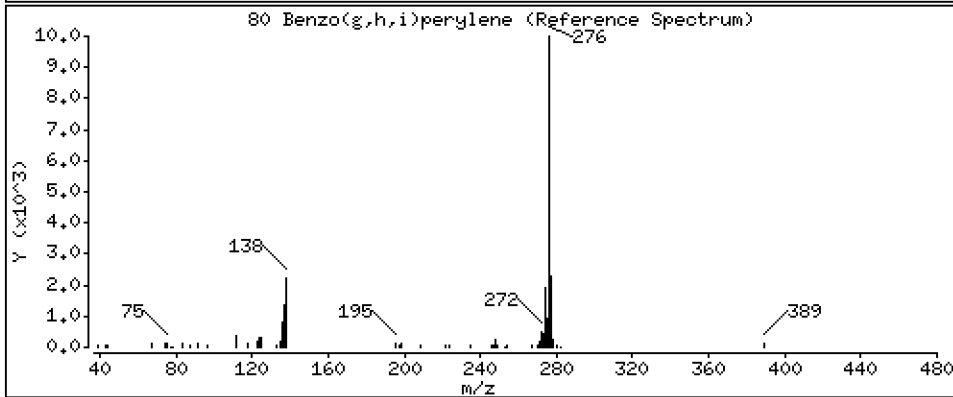
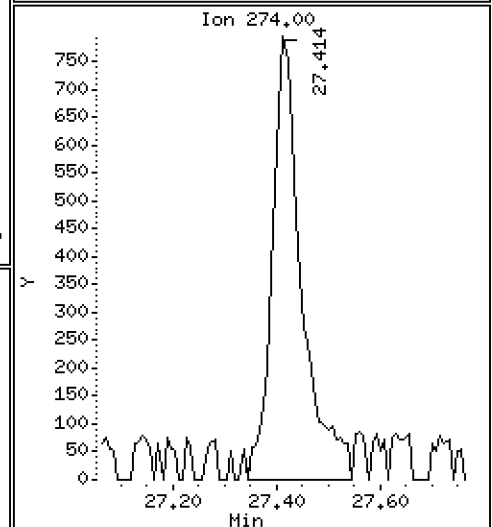
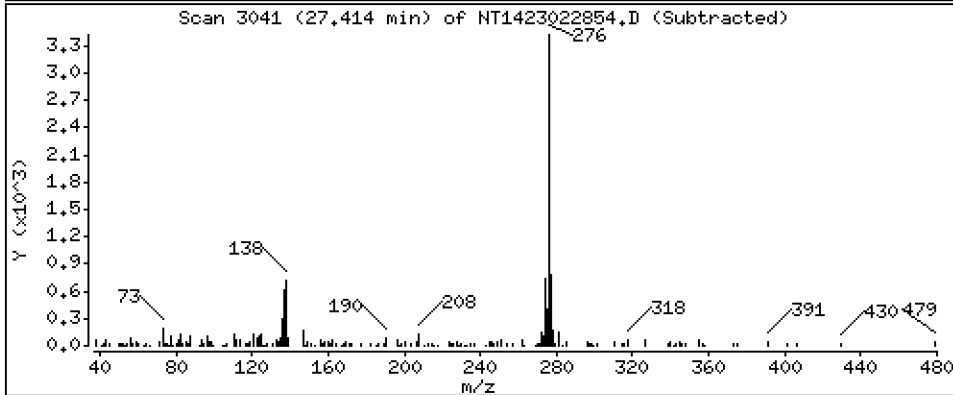
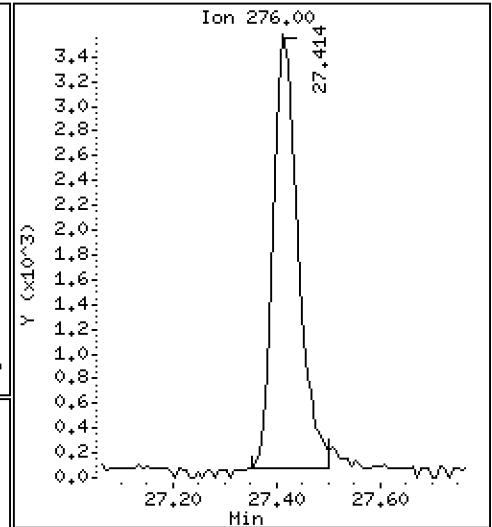
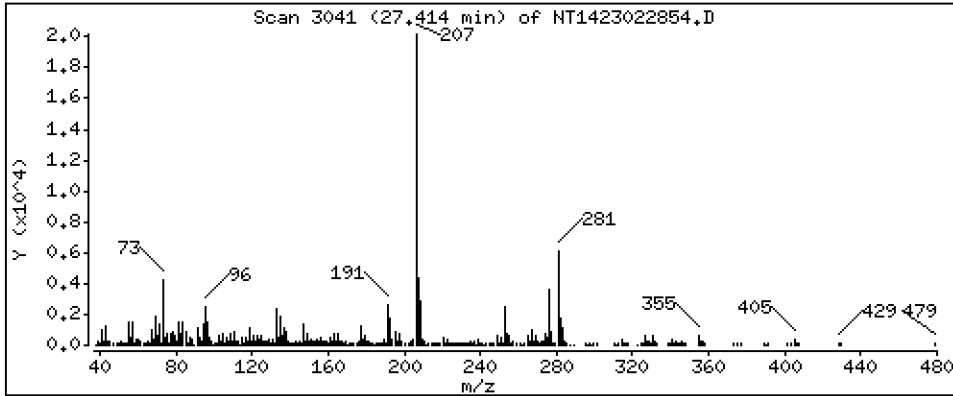
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 1.671 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

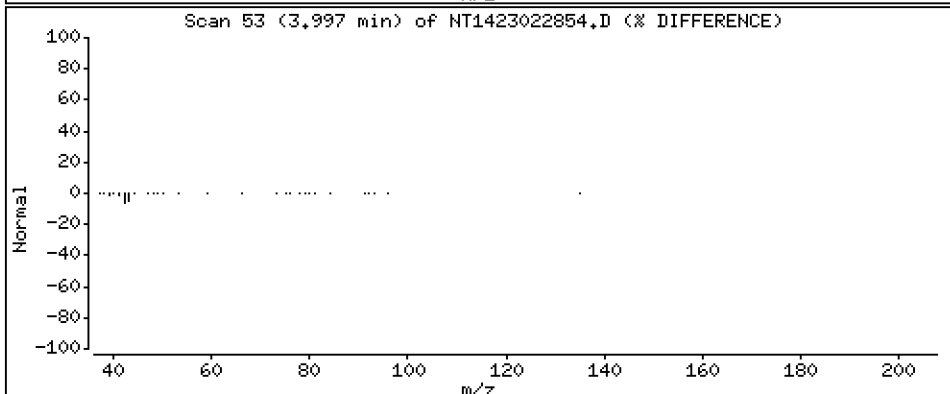
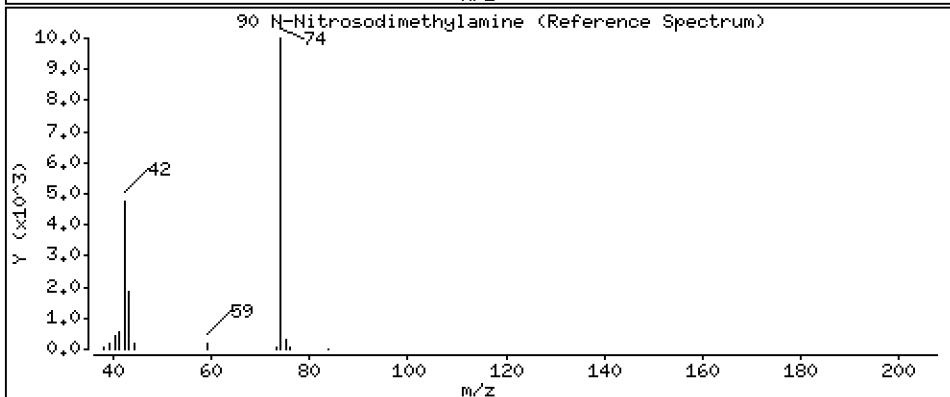
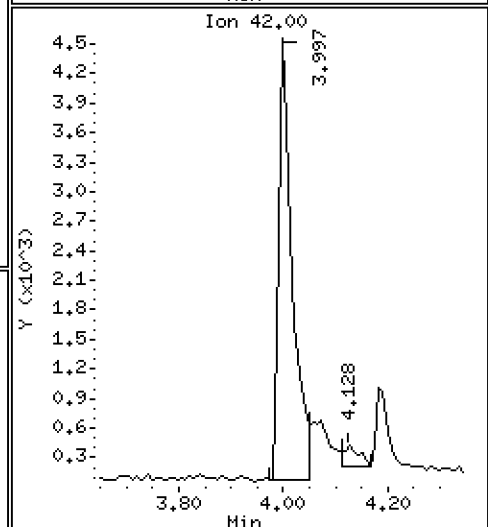
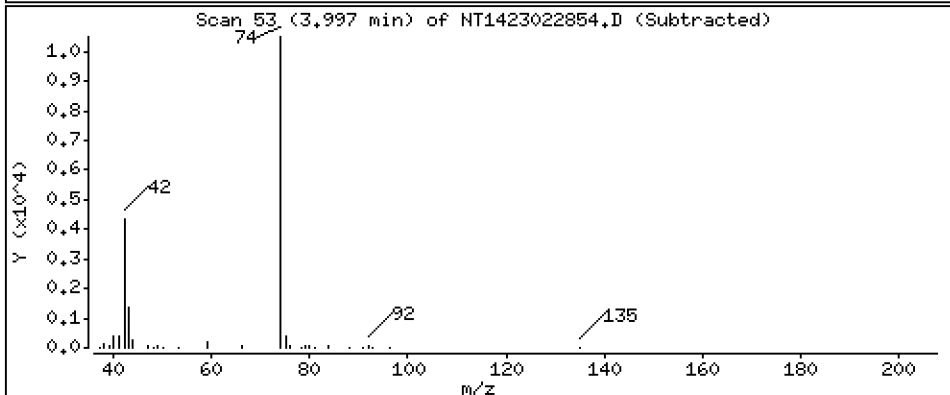
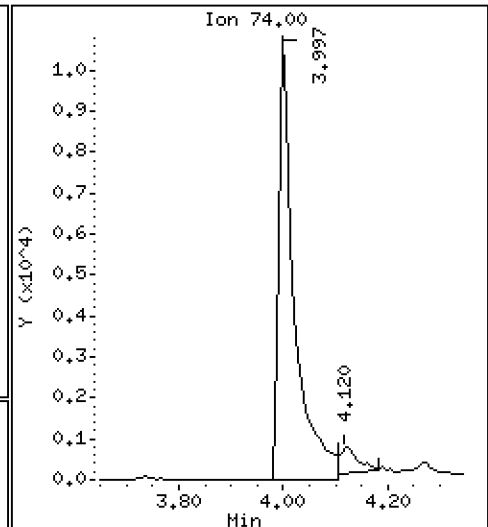
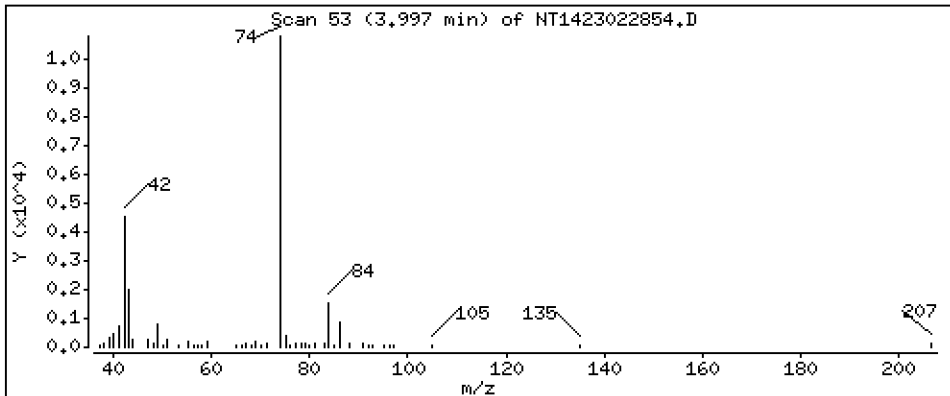
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 9.902 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

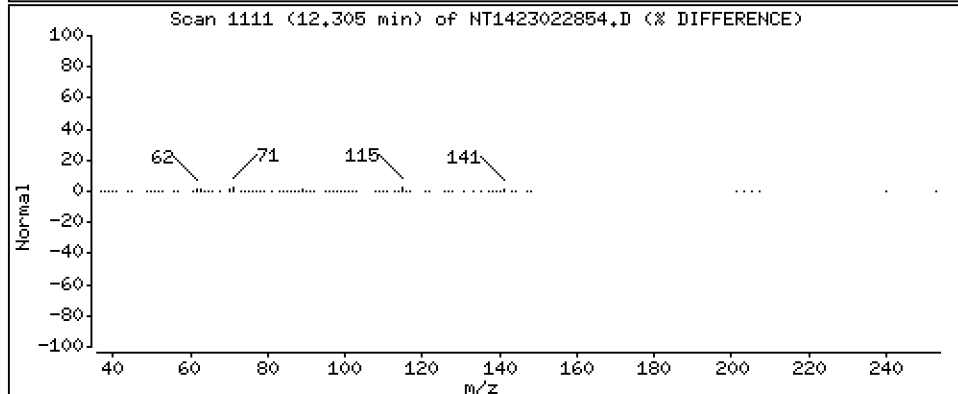
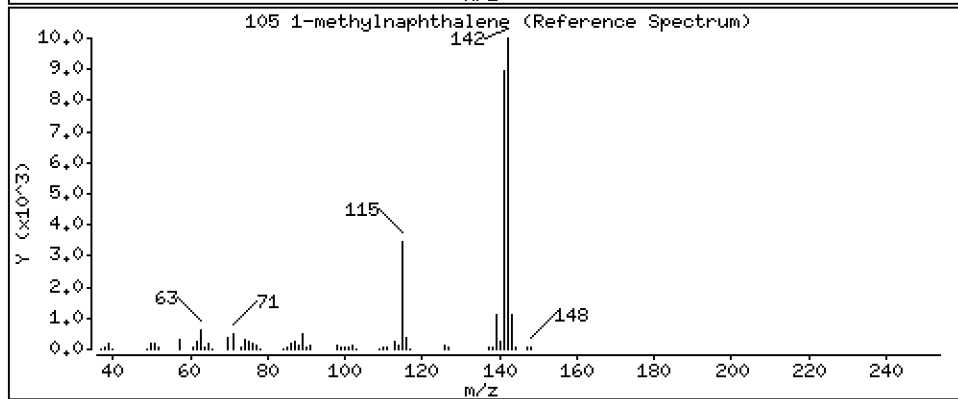
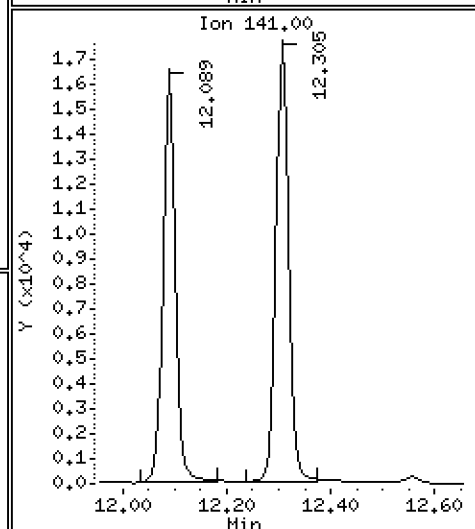
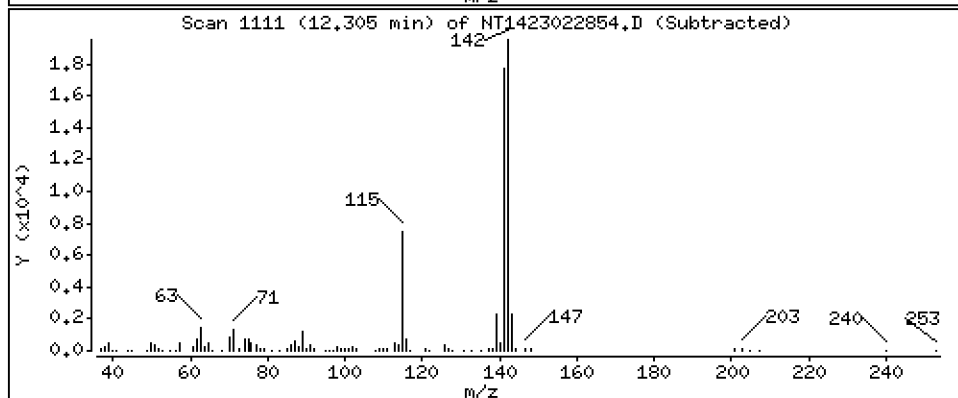
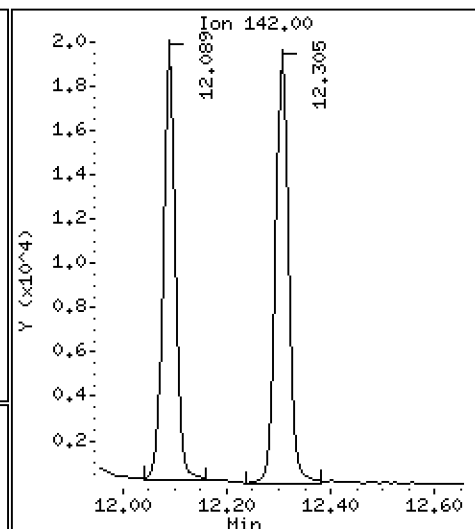
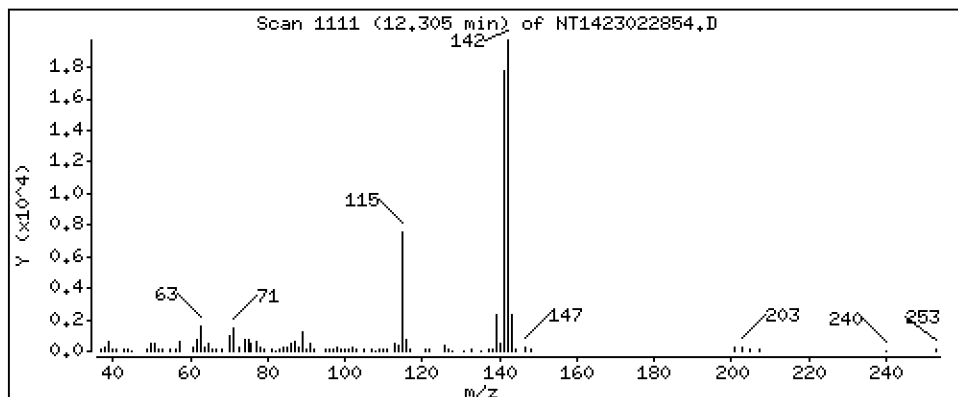
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,597 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1.10

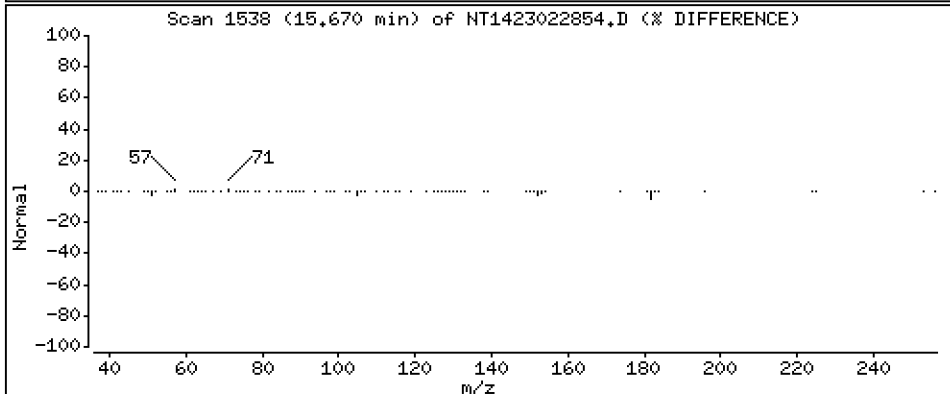
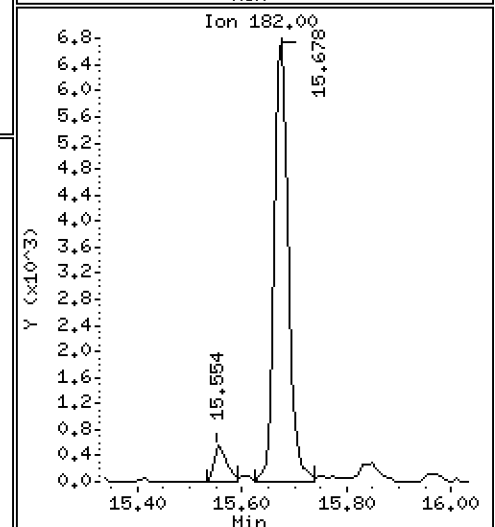
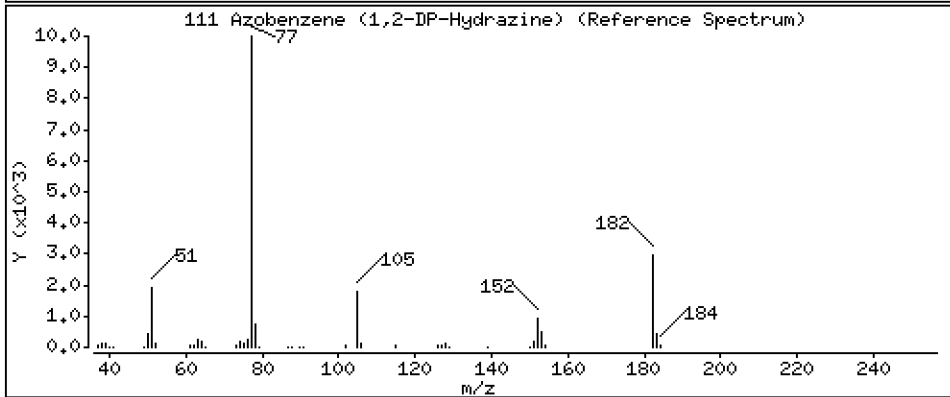
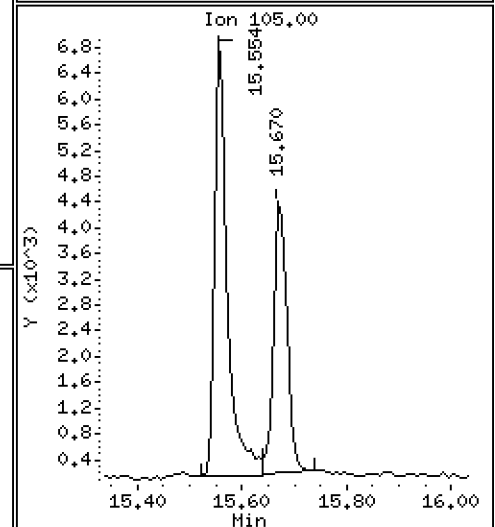
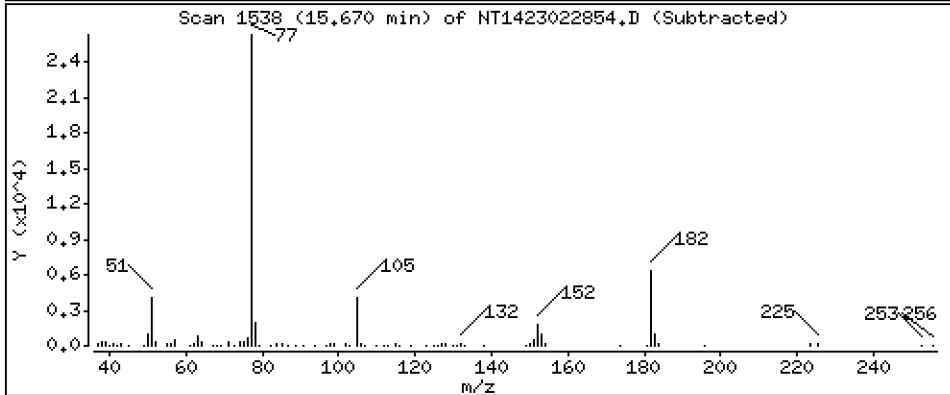
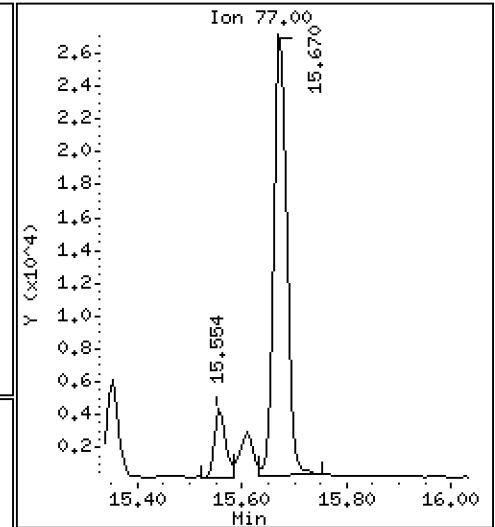
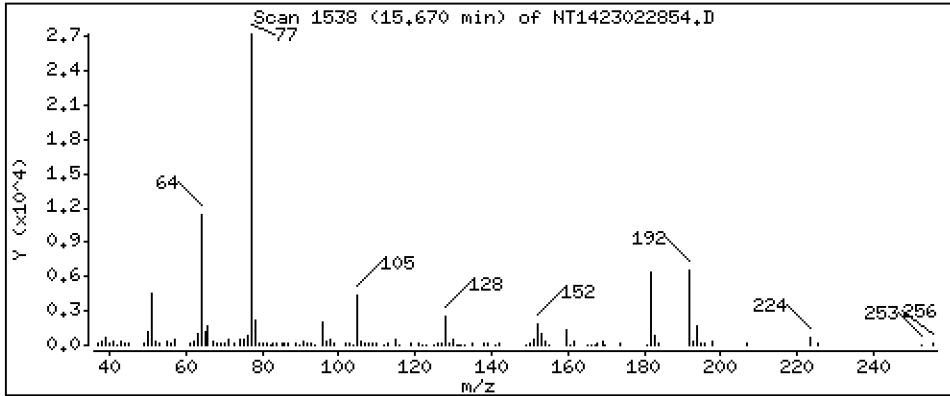
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 6.049 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

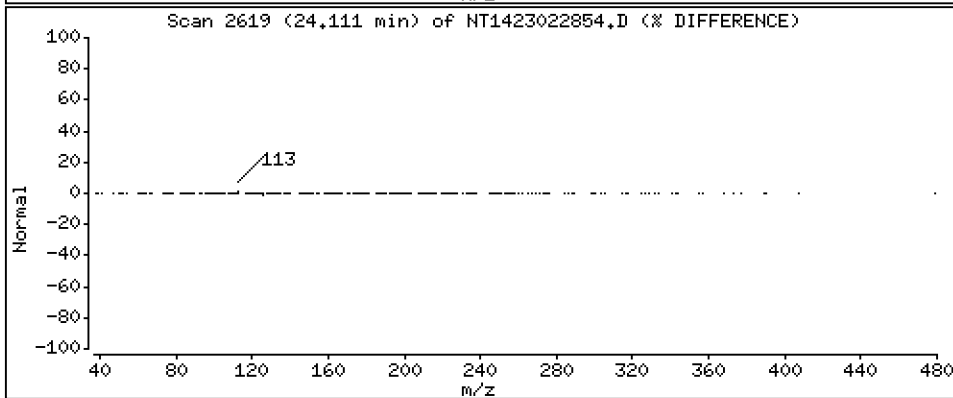
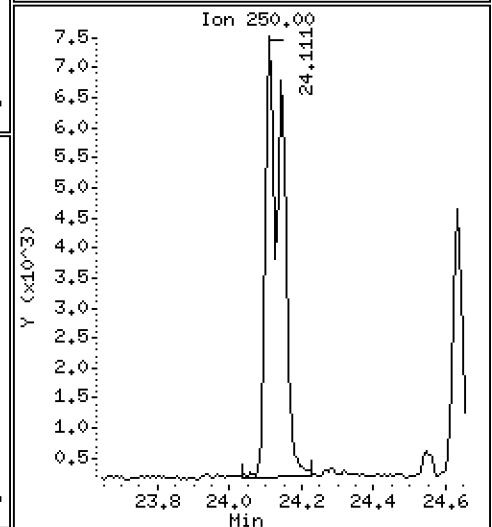
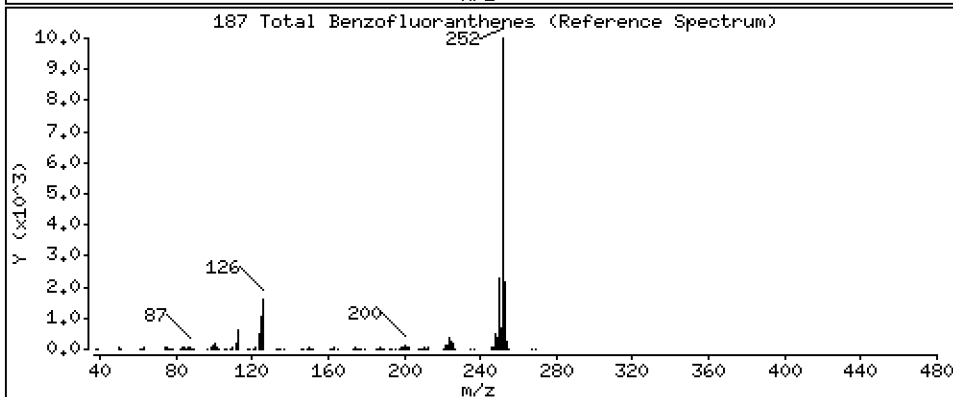
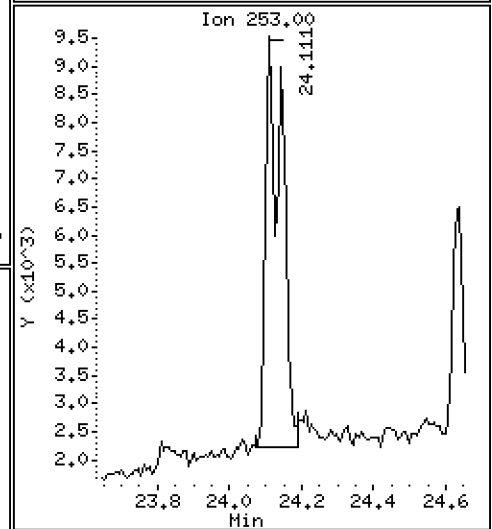
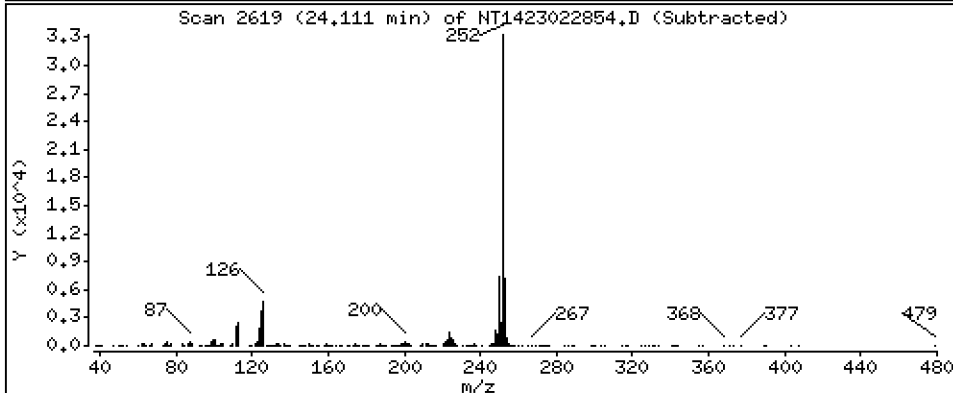
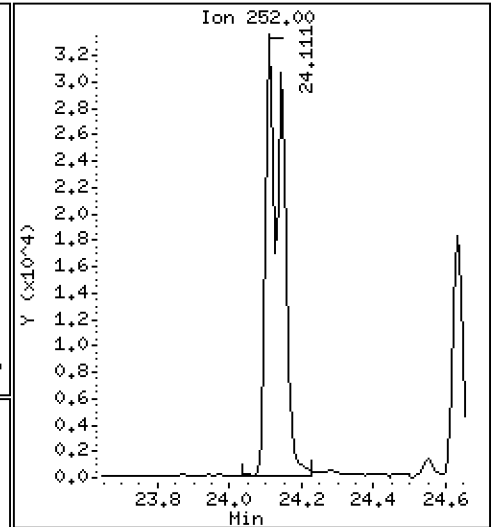
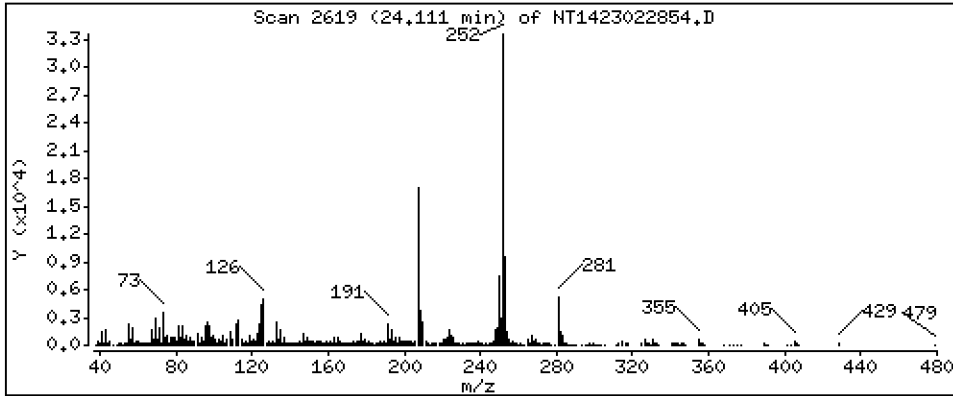
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 14,81 ug/mL



Date : 02-MAR-2023 09:29

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MS1,10

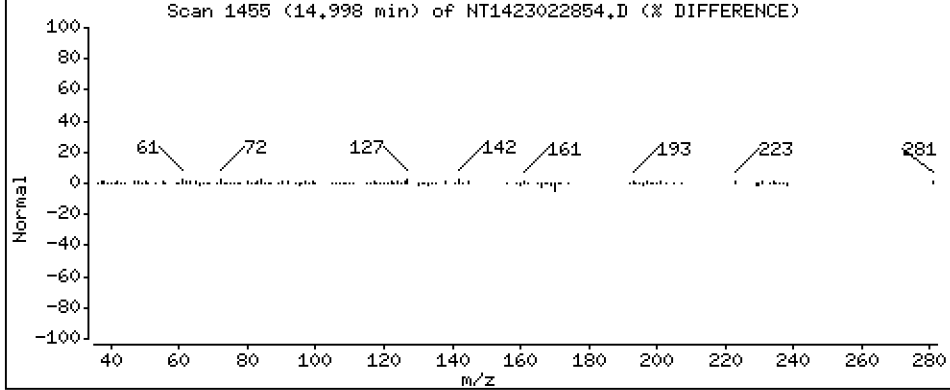
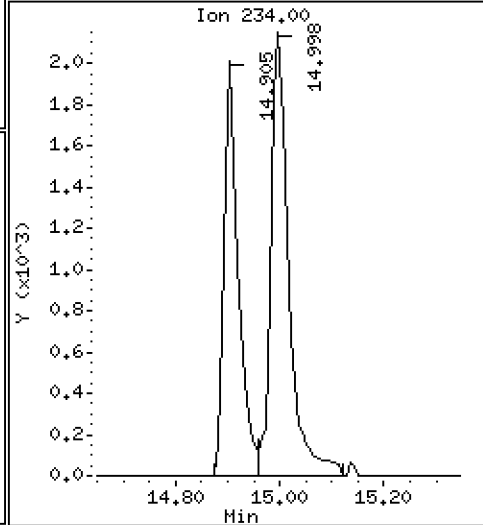
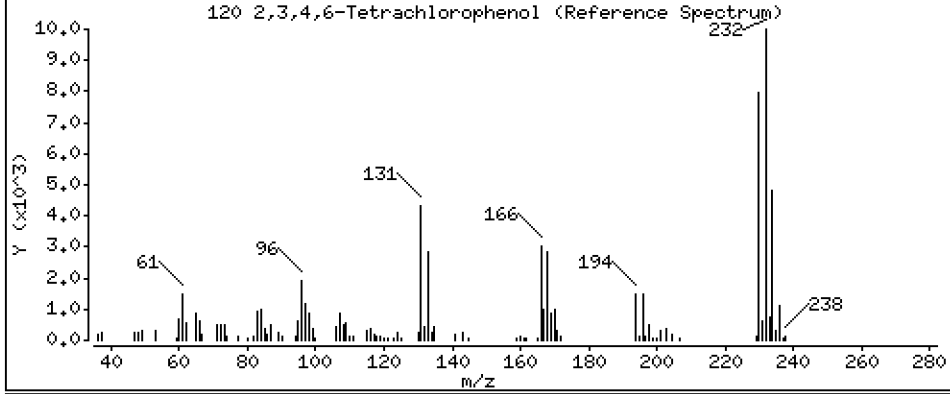
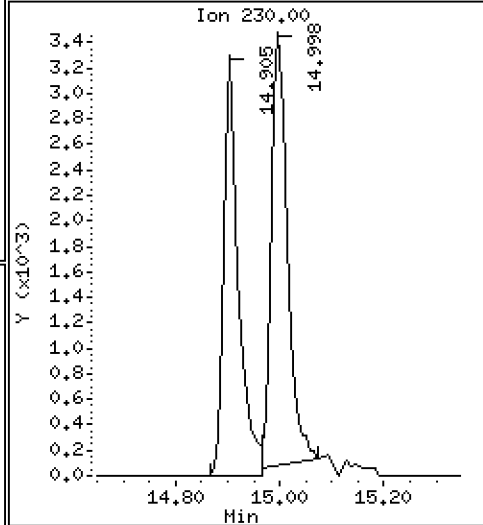
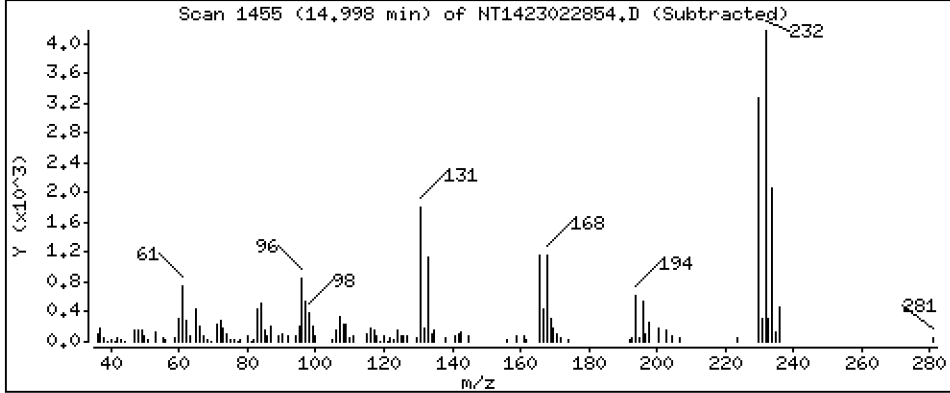
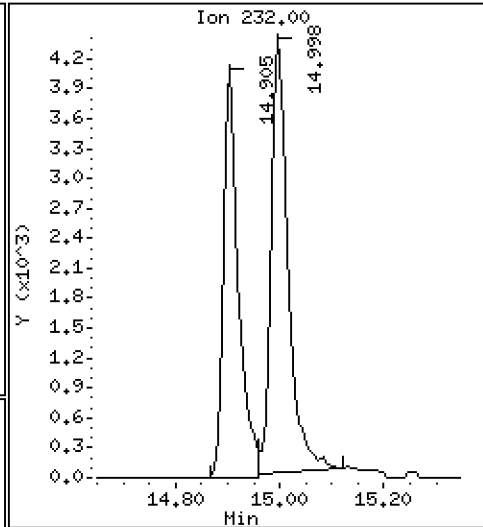
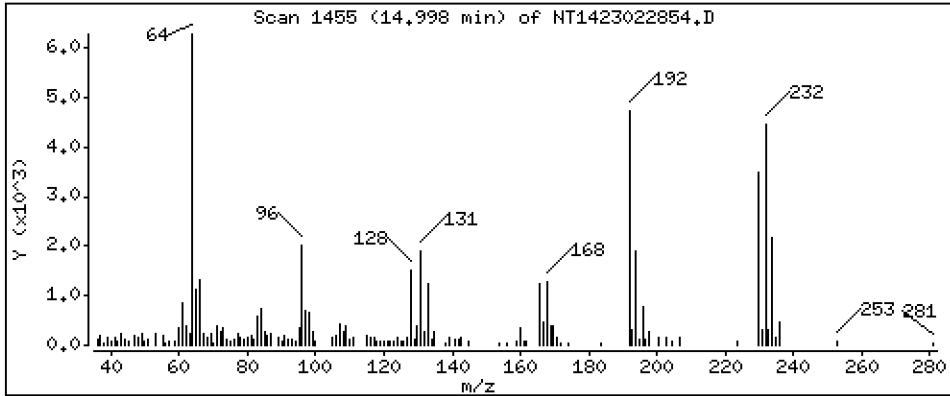
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 4,260 ug/mL





ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022854.D  
 Lab Smp Id: BLA0557-MS1  
 Inj Date : 02-MAR-2023 09:29 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : BLA0557-MS1,10  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 11-Mar-2023 13:20 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 21  
 Dil Factor: 10.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |           |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|-----------|
|                                 |       |     |        |        |         |          | ON-COLUMN      | FINAL     |
|                                 | MASS  |     |        |        |         |          | (ug/mL)        | (ug/mL)   |
| \$ 1 2-Fluorophenol             | 112   |     | 6.074  | 6.066  | (0.741) | 18202    | 0.62020        | 6.202     |
| \$ 2 Phenol-d5                  | 99    |     | 7.658  | 7.650  | (0.934) | 27659    | 0.66379        | 6.638     |
| 3 Phenol                        | 94    |     | 7.681  | 7.673  | (0.937) | 24360    | 0.48997        | 4.900     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.866  | 7.858  | (0.959) | 22526    | 0.63577        | 6.358     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.789  | 7.789  | (0.950) | 15824    | 0.45154        | 4.515     |
| 6 2-Chlorophenol                | 128   |     | 7.889  | 7.889  | (0.962) | 14300    | 0.39049        | 3.905     |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.137  | 8.137  | (0.992) | 16235    | 0.40228        | 4.023     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.199  | 8.207  | (1.000) | 108236   | 4.00000        |           |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.238  | 8.238  | (1.005) | 16197    | 0.40608        | 4.061     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.556  | 8.556  | (1.044) | 10260    | 0.38465        | 3.846     |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.579  | 8.579  | (1.046) | 16437    | 0.42976        | 4.298     |
| 11 Benzyl alcohol               | 108   |     | 8.626  | 8.517  | (1.052) | 6209     | 0.28638        | 2.864 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.797  | 8.797  | (1.073) | 5356     | 0.51927        | 5.193     |
| 13 2-Methylphenol               | 108   |     | 8.766  | 8.758  | (1.069) | 10926    | 0.34787        | 3.479     |
| 17 Hexachloroethane             | 117   |     | 9.154  | 9.162  | (1.116) | 5629     | 0.37579        | 3.758     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.053  | 9.061  | (1.104) | 12445    | 0.52040        | 5.204     |
| 15 4-Methylphenol               | 108   |     | 9.053  | 9.037  | (1.104) | 12460    | 0.34071        | 3.407     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.301  | 9.293  | (0.873) | 17835    | 0.47156        | 4.716     |
| 19 Nitrobenzene                 | 77    |     | 9.332  | 9.332  | (0.876) | 18377    | 0.50563        | 5.056     |
| 20 Isophorone                   | 82    |     | 9.775  | 9.782  | (0.917) | 33743    | 0.59485        | 5.948     |
| 21 2-Nitrophenol                | 139   |     | 9.961  | 9.953  | (0.935) | 7745     | 0.41164        | 4.116     |
| 22 2,4-Dimethylphenol           | 107   |     | 10.062 | 10.054 | (0.944) | 15206    | 0.45893        | 4.589     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.232 | 10.232 | (0.960) | 20740    | 0.56760        | 5.676     |
| 24 Benzoic acid                 | 105   |     | 10.255 | 10.372 | (0.962) | 39689    | 3.02268        | 30.23 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | 10.426 | 10.418 | (0.978) | 51015    | 1.52747        | 15.27     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.580 | 10.580 | (0.993) | 14926    | 0.39860        | 3.986     |
| * 27 Naphthalene-d8             | 136   |     | 10.657 | 10.665 | (1.000) | 386639   | 4.00000        |           |
| 28 Naphthalene                  | 128   |     | 10.696 | 10.704 | (1.004) | 47339    | 0.45901        | 4.590     |
| 29 4-Chloroaniline              | 127   |     | 10.889 | 10.866 | (1.022) | 4945     | 0.11210        | 1.121 (M) |
| 30 Hexachlorobutadiene          | 225   |     | 11.074 | 11.074 | (1.039) | 8864     | 0.38793        | 3.879     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.864 | 11.856 | (1.113) | 56470    | 1.89343        | 18.93     |
| 32 2-Methylnaphthalene          | 142   |     | 12.088 | 12.088 | (1.134) | 32331    | 0.42333        | 4.233     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.552 | 12.553 | (0.882) | 3253     | 0.14139        | 1.414     |

| Compounds                         | QUANT SIG |                        |        |         |          | CONCENTRATIONS       |                  |
|-----------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|
|                                   | MASS      | RT                     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 12.730                 | 12.731 | (0.894) | 38999    | 1.82052              | 18.21            |
| 35 2,4,5-Trichlorophenol          | 196       | 12.816                 | 12.808 | (0.900) | 42329    | 1.82754              | 18.28            |
| § 36 2-Fluorobiphenyl             | 172       | 12.878                 | 12.885 | (0.904) | 40224    | 0.47126              | 4.713            |
| 37 2-Chloronaphthalene            | 162       | 13.071                 | 13.071 | (0.918) | 32603    | 0.47650              | 4.765            |
| 38 2-Nitroaniline                 | 65        | 13.357                 | 13.365 | (0.938) | 36818    | 2.06320              | 20.63            |
| 39 Dimethylphthalate              | 163       | 13.798                 | 13.806 | (0.969) | 41925    | 0.60780              | 6.078            |
| 40 Acenaphthylene                 | 152       | 13.930                 | 13.930 | (0.978) | 50449    | 0.50248              | 5.025            |
| 41 2,6-Dinitrotoluene             | 165       | 13.930                 | 13.938 | (0.978) | 32346    | 2.00111              | 20.01            |
| * 42 Acenaphthene-d10             | 164       | 14.240                 | 14.247 | (1.000) | 219298   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138       | 14.216                 | 14.216 | (0.998) | 14409    | 0.86975              | 8.697            |
| 44 Acenaphthene                   | 153       | 14.301                 | 14.309 | (1.004) | 32585    | 0.50691              | 5.069            |
| 45 2,4-Dinitrophenol              | 184       | 14.433                 | 14.425 | (1.014) | 11460    | 1.11931              | 11.19 (M)        |
| 46 Dibenzofuran                   | 168       | 14.634                 | 14.642 | (1.028) | 49881    | 0.48768              | 4.877            |
| 47 4-Nitrophenol                  | 109       | 14.626                 | 14.595 | (1.027) | 10211    | 1.24428              | 12.44            |
| 48 2,4-Dinitrotoluene             | 165       | 14.727                 | 14.734 | (1.034) | 42174    | 1.81239              | 18.12            |
| 50 Diethylphthalate               | 149       | 15.245                 | 15.260 | (1.071) | 44472    | 0.68945              | 6.895            |
| 49 Fluorene                       | 166       | 15.337                 | 15.345 | (1.077) | 46750    | 0.54248              | 5.425            |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.353                 | 15.361 | (1.078) | 24049    | 0.52448              | 5.245            |
| 52 4-Nitroaniline                 | 138       | 15.477                 | 15.484 | (1.087) | 20647    | 1.25725              | 12.57            |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.554                 | 15.569 | (0.902) | 30844    | 2.32144              | 23.21            |
| 54 N-Nitrosodiphenylamine         | 169       | 15.608                 | 15.615 | (0.905) | 28977    | 0.57746              | 5.775            |
| § 55 2,4,6-Tribromophenol         | 330       | 15.877                 | 15.885 | (1.115) | 8311     | 0.70423              | 7.042            |
| 56 4-Bromophenyl-phenylether      | 248       | 16.348                 | 16.348 | (0.948) | 12721    | 0.57663              | 5.766            |
| 57 Hexachlorobenzene              | 284       | 16.634                 | 16.642 | (0.964) | 13053    | 0.53815              | 5.382            |
| 58 Pentachlorophenol              | 266       | 17.021                 | 17.013 | (0.987) | 18472    | 1.60864              | 16.09            |
| * 59 Phenanthrene-d10             | 188       | 17.253                 | 17.253 | (1.000) | 399312   | 4.00000              |                  |
| 60 Phenanthrene                   | 178       | 17.299                 | 17.299 | (1.003) | 60591    | 0.57040              | 5.704            |
| 61 Anthracene                     | 178       | 17.392                 | 17.392 | (1.008) | 47701    | 0.47500              | 4.750            |
| 62 Carbazole                      | 167       | 17.748                 | 17.748 | (1.029) | 48579    | 0.55194              | 5.519            |
| 63 Di-n-butylphthalate            | 149       | 18.599                 | 18.599 | (1.078) | 75141    | 0.66218              | 6.622            |
| 64 Fluoranthene                   | 202       | 19.729                 | 19.729 | (0.882) | 72004    | 0.58334              | 5.833            |
| 65 Pyrene                         | 202       | 20.147                 | 20.154 | (0.901) | 78555    | 0.60362              | 6.036            |
| § 66 Terphenyl-d14                | 244       | 20.479                 | 20.479 | (0.916) | 51377    | 0.51274              | 5.127            |
| 67 Butylbenzylphthalate           | 149       | 21.439                 | 21.447 | (0.958) | 29226    | 0.63557              | 6.356            |
| 68 Benzo(a)anthracene             | 228       | 22.345                 | 22.353 | (0.999) | 65441    | 0.60047              | 6.005            |
| * 69 Chrysene-d12                 | 240       | 22.369                 | 22.376 | (1.000) | 325344   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.338                 | 22.338 | (0.999) | 12329    | 0.39614              | 3.961            |
| 71 Chrysene                       | 228       | 22.415                 | 22.423 | (1.002) | 61637    | 0.58840              | 5.884            |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.500                 | 22.500 | (0.958) | 40059    | 0.55088              | 5.509            |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.476                 | 23.483 | (1.000) | 476401   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149       | 23.483                 | 23.491 | (1.000) | 71847    | 0.57279              | 5.728            |
| 74 Benzo(b)fluoranthene           | 252       | 24.111                 | 24.118 | (0.975) | 53075    | 0.72191              | 7.219            |
| 75 Benzo(k)fluoranthene           | 252       | 24.141                 | 24.149 | (0.977) | 59787    | 0.75378              | 7.538            |
| 76 Benzo(a)pyrene                 | 252       | 24.629                 | 24.637 | (0.996) | 35160    | 0.55743              | 5.574            |
| * 77 Perylene-d12                 | 264       | 24.722                 | 24.730 | (1.000) | 222525   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.808                 | 26.808 | (1.084) | 18328    | 0.23083              | 2.308            |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.824                 | 26.824 | (1.085) | 17329    | 0.25697              | 2.570            |
| 80 Benzo(g,h,i)perylene           | 276       | 27.414                 | 27.414 | (1.109) | 11571    | 0.16709              | 1.671            |
| 90 N-Nitrosodimethylamine         | 74        | 3.996                  | 3.996  | (0.487) | 21908    | 0.99022              | 9.902            |
| 91 Aniline                        | 93        | Compound Not Detected. |        |         |          |                      |                  |
| 93 Benzidine                      | 184       | Compound Not Detected. |        |         |          |                      |                  |
| 103 Pyridine                      | 79        | Compound Not Detected. |        |         |          |                      |                  |
| 105 1-methylnaphthalene           | 142       | 12.305                 | 12.305 | (1.155) | 32321    | 0.45968              | 4.597            |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.669                 | 15.685 | (1.100) | 44795    | 0.60492              | 6.049            |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |       |
|-------------------------------|-----------|--------|--------|---------|----------|----------------|-------|
|                               | MASS      |        |        |         |          | ON-COLUMN      | FINAL |
| =====                         | =====     | =====  | =====  | =====   | =====    | =====          |       |
| 187 Total Benzofluoranthenes  | 252       | 24.111 | 24.149 | (0.975) | 106513   | 1.48102        | 14.81 |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 14.997 | 14.997 | (1.053) | 10523    | 0.42596        | 4.260 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 02-MAR-2023  
 Lab File ID: NT1423022854.D Calibration Time: 05:52  
 Lab Smp Id: BLA0557-MS1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 116519   | 58260      | 233038  | 108236 | -7.11  |
| 27 Naphthalene-d8     | 429090   | 214545     | 858180  | 386639 | -9.89  |
| 42 Acenaphthene-d10   | 250637   | 125319     | 501274  | 219298 | -12.50 |
| 59 Phenanthrene-d10   | 458117   | 229059     | 916234  | 399312 | -12.84 |
| 69 Chrysene-d12       | 393468   | 196734     | 786936  | 325344 | -17.31 |
| 134 Di-n-octylphthala | 572636   | 286318     | 1145272 | 476401 | -16.81 |
| 77 Perylene-d12       | 283320   | 141660     | 566640  | 222525 | -21.46 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.20   | -0.10 |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.66  | -0.07 |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.24  | -0.05 |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.25  | -0.00 |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.37  | -0.03 |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.48  | -0.03 |
| 77 Perylene-d12       | 24.73    | 24.23    | 25.23 | 24.72  | -0.03 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022854.D

Lab ID: BLA0557-MS1  
nt14.i, ABN.m, 02-MAR-2023 09:29

RT CO-ELUTION COMPOUNDS

---

13.931 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND       |
|-------|---------|---------|----------------|
| 1.052 | 1.038   | 0.0142  | Benzyl alcohol |
| 0.962 | 0.972   | -0.0102 | Benzoic acid   |

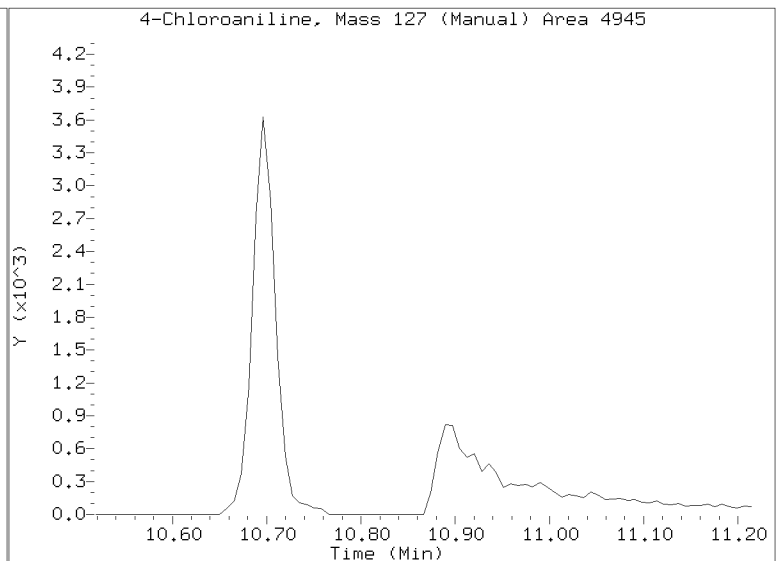
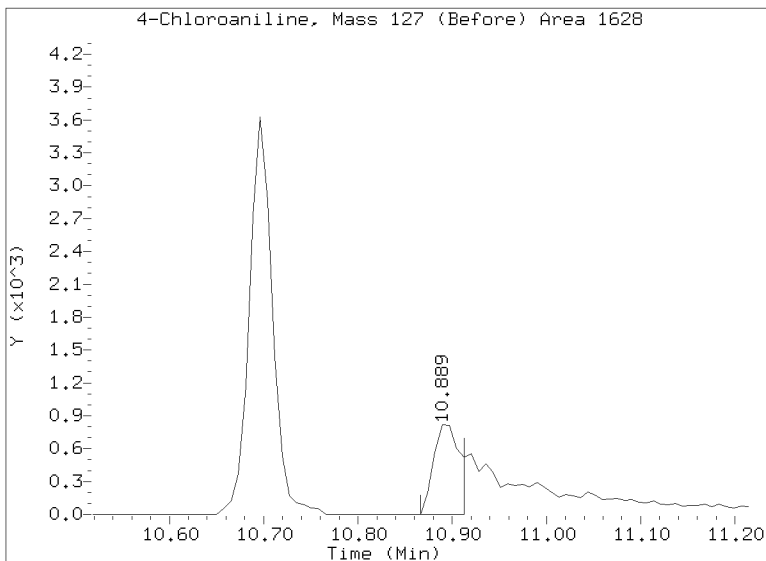
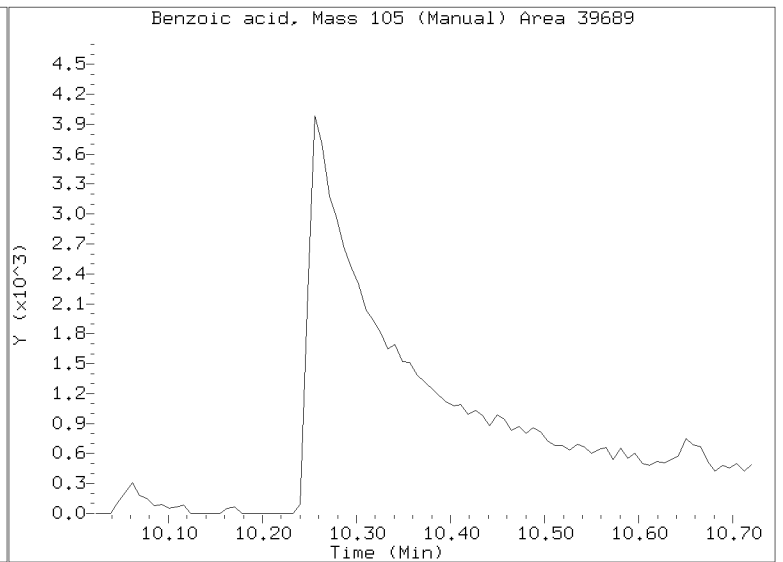
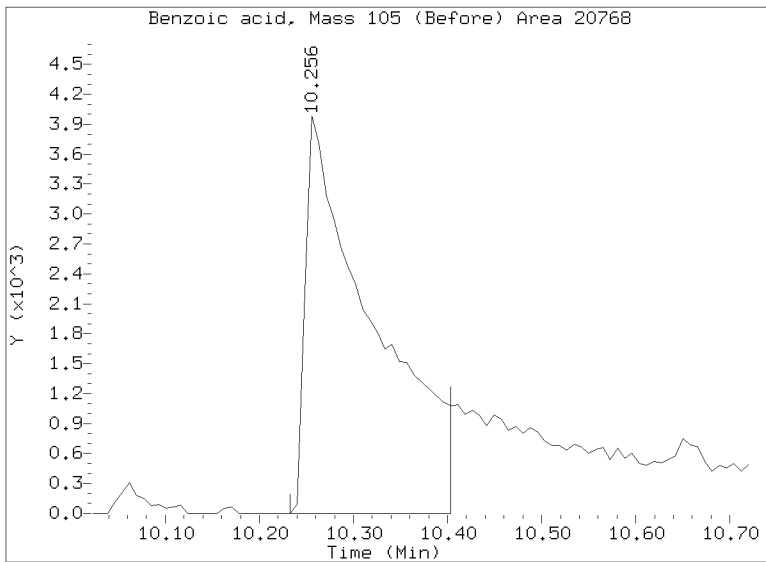
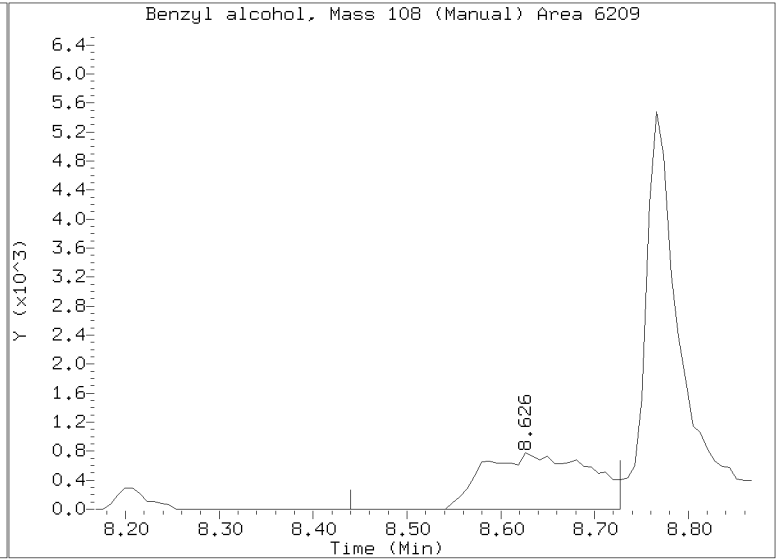
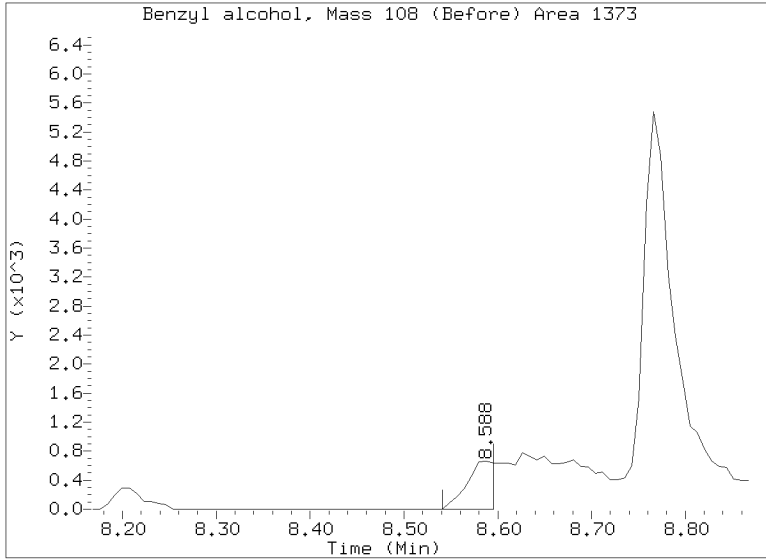
RRT check based on Ccal File: NT1423022848.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

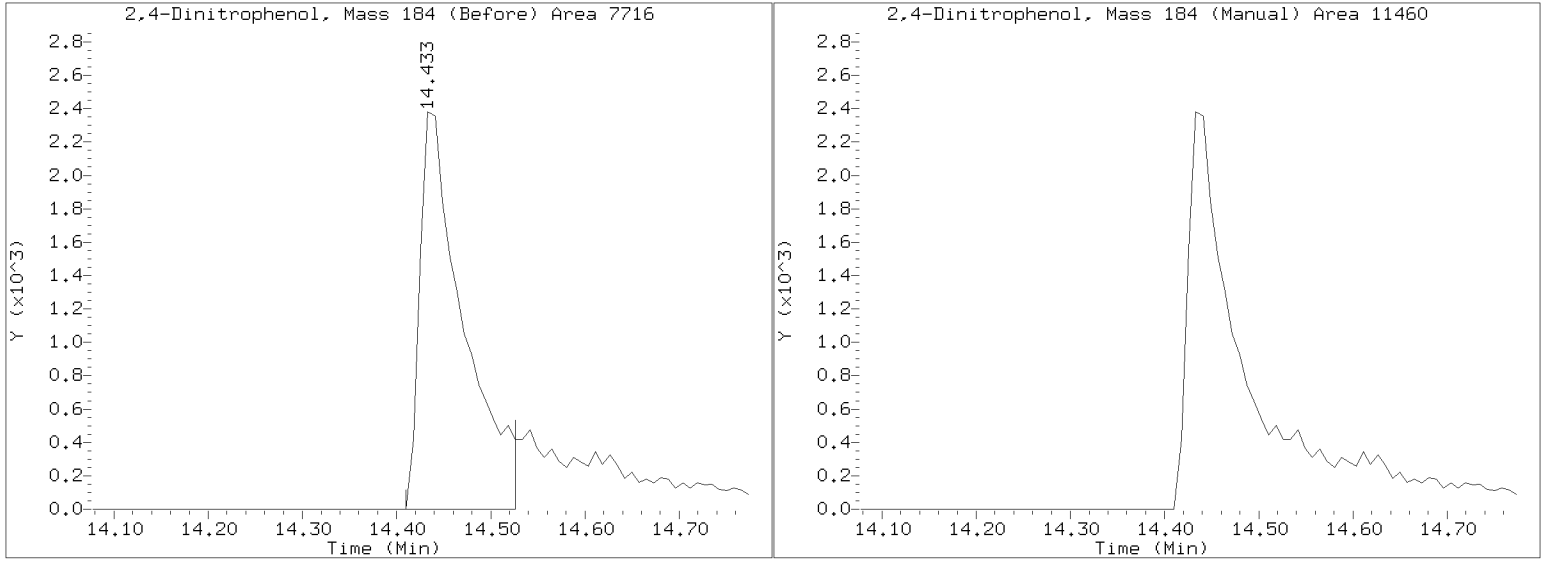
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Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022854.D  
Injection Date: 02-MAR-2023 09:29  
Lab ID:BLA0557-MS1 Client ID:  
Report Date: 03/14/2023 08:44



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022854.D  
Injection Date: 02-MAR-2023 09:29  
Lab ID:BLA0557-MS1 Client ID:  
Report Date: 03/14/2023 08:44



Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022855.D

Date: 02-MAR-2023 10:05

Client ID:

Sample Info: BLR0557-HSD1,10

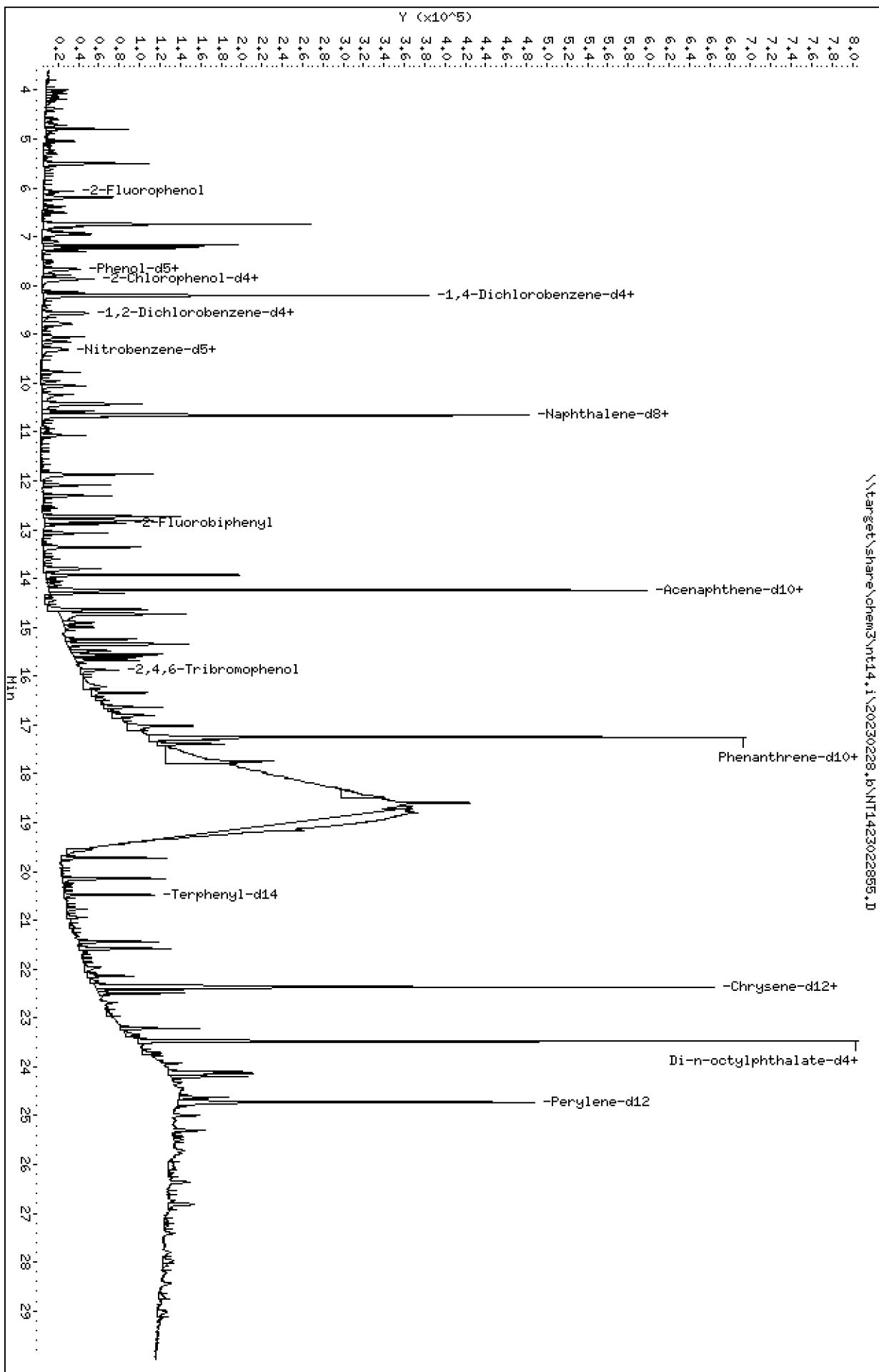
Page 1

Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0,25





Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

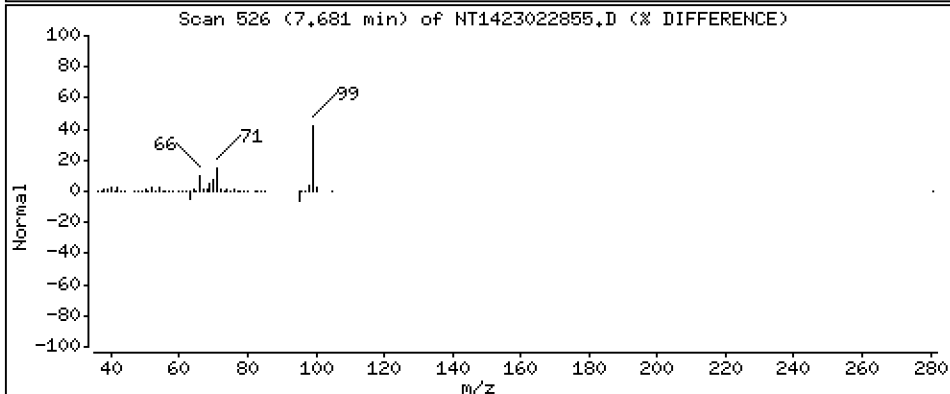
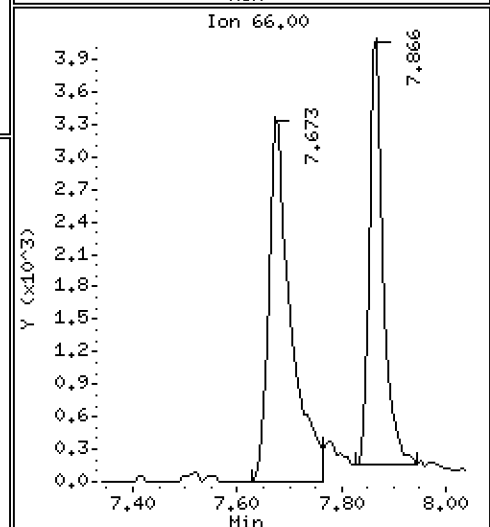
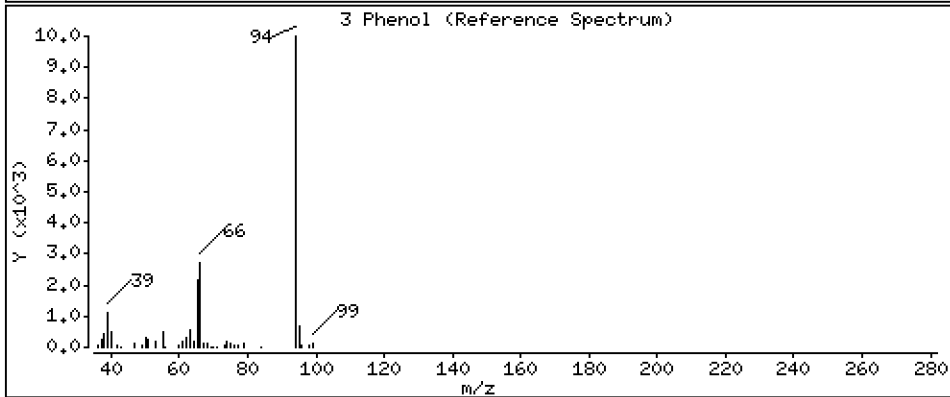
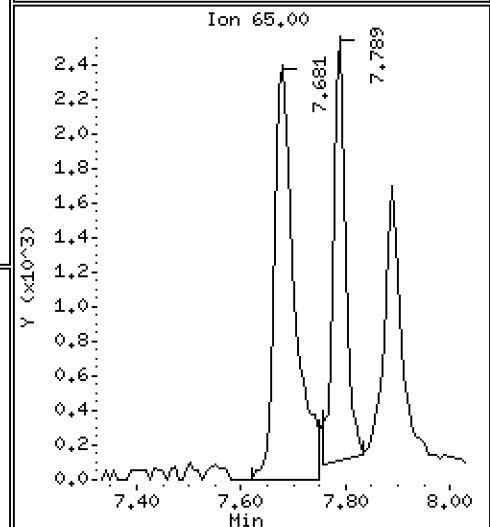
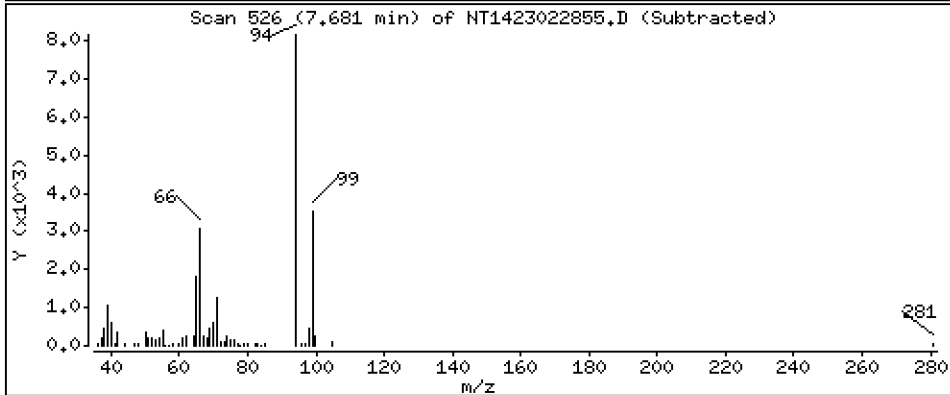
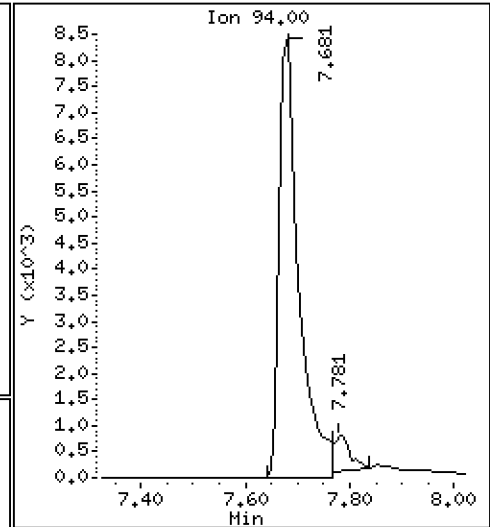
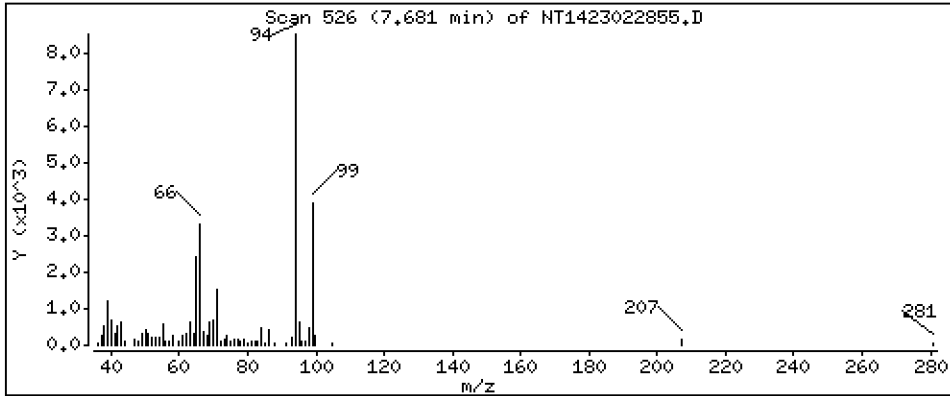
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 4,389 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

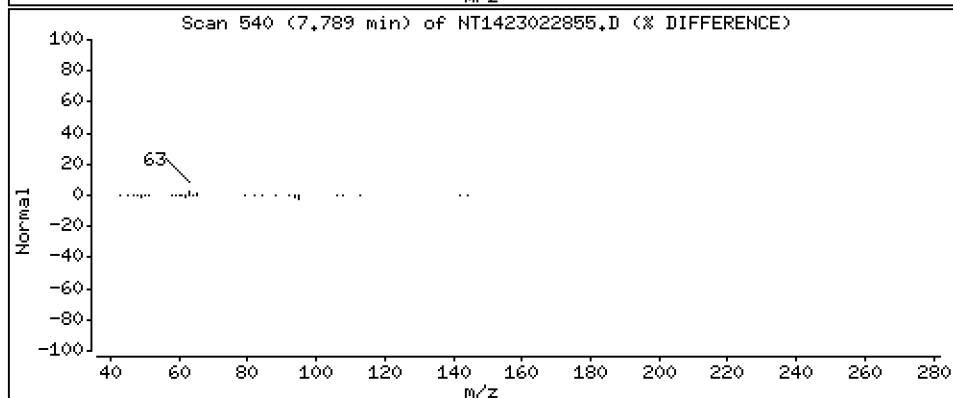
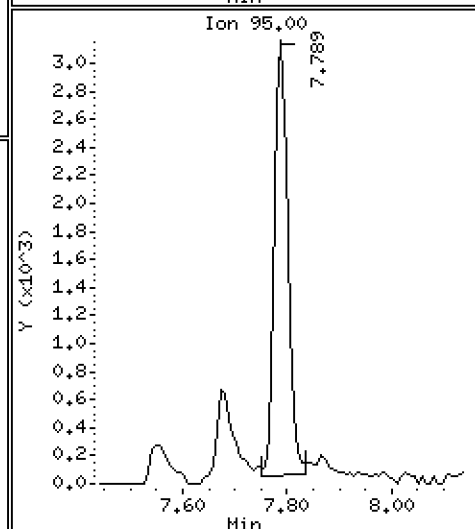
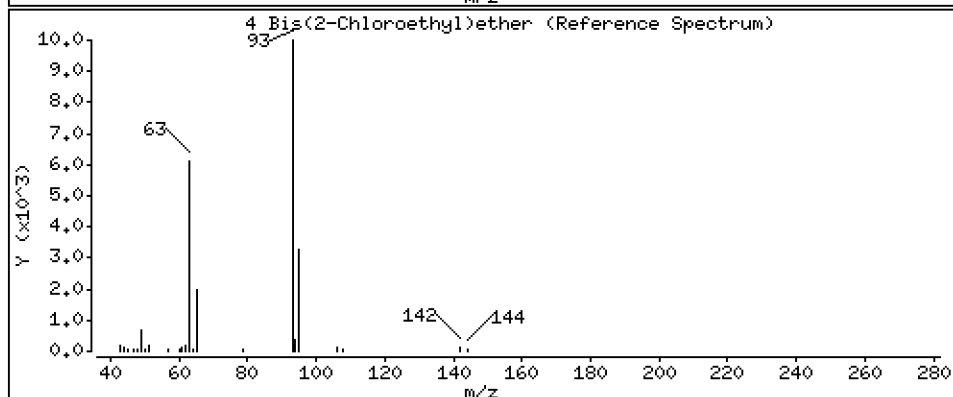
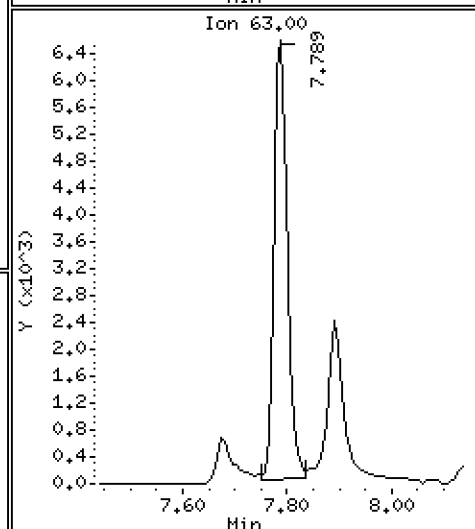
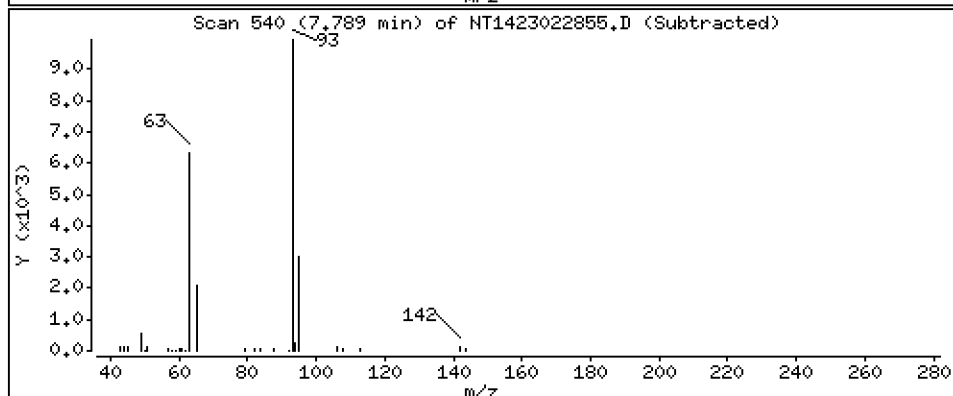
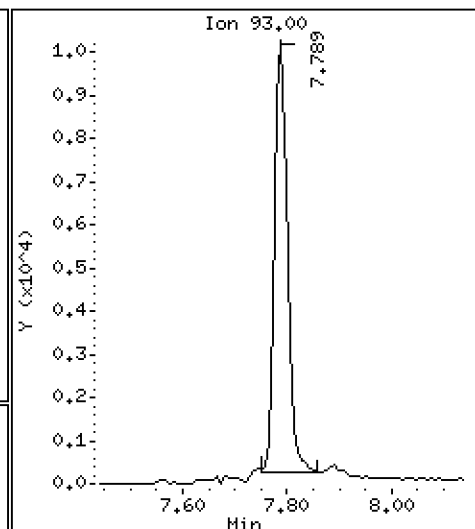
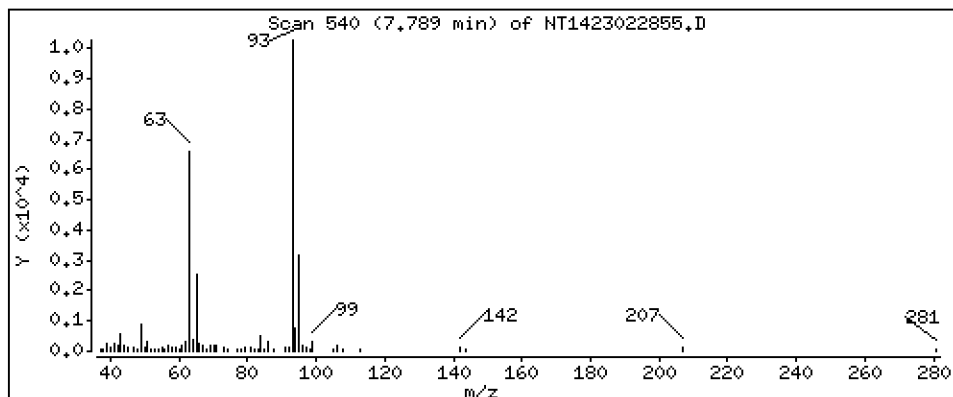
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,657 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

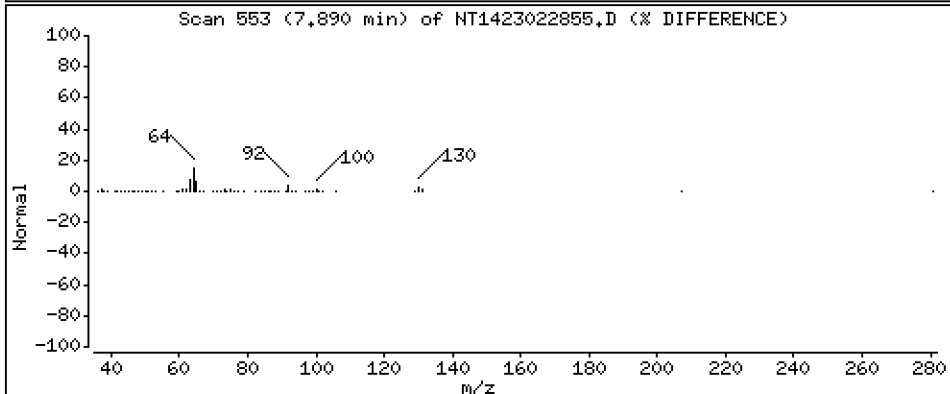
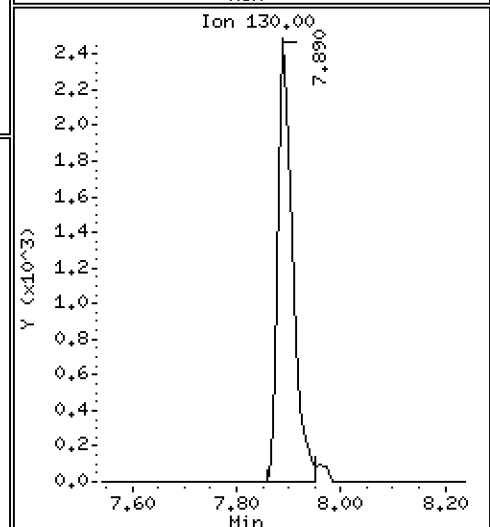
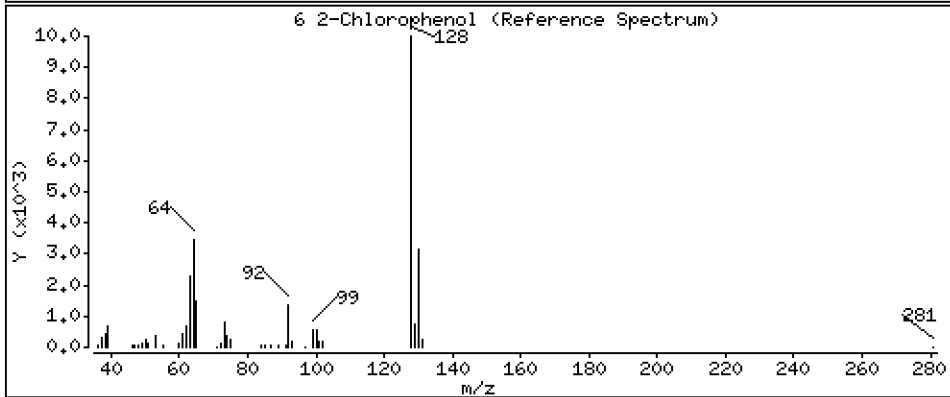
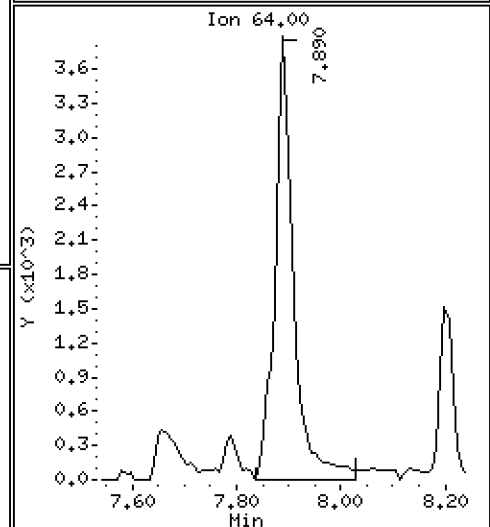
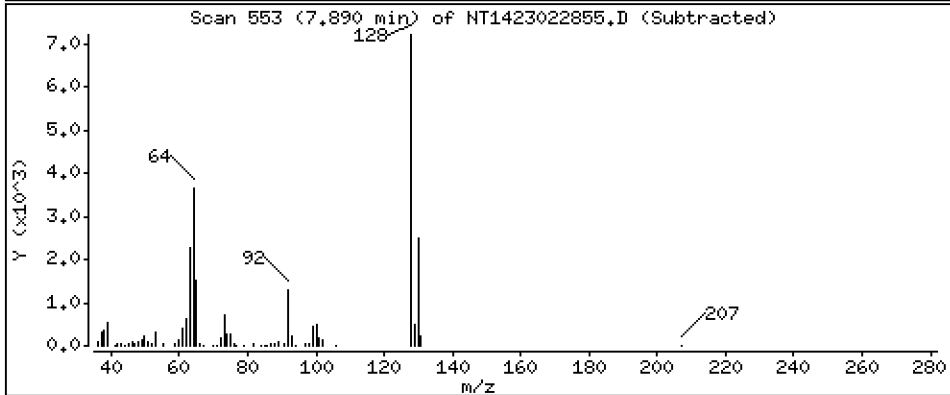
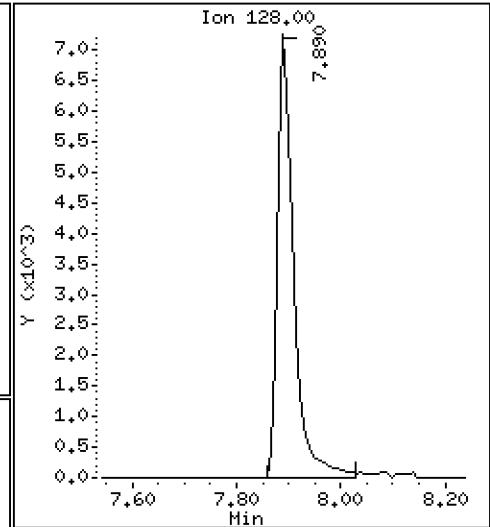
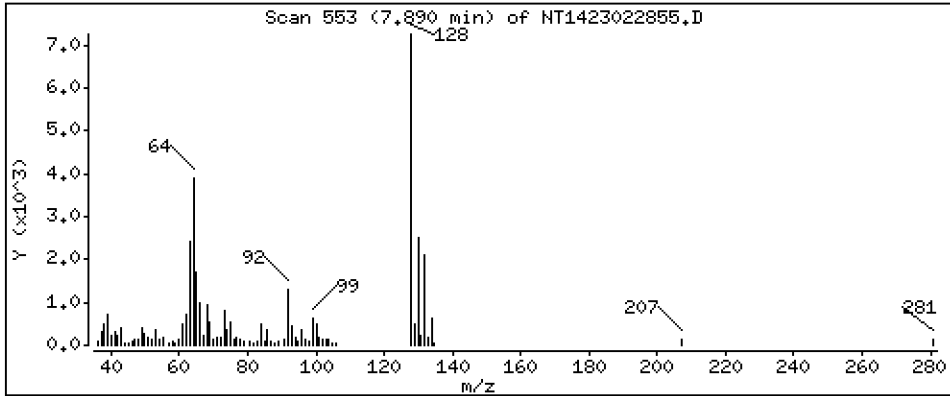
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,574 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

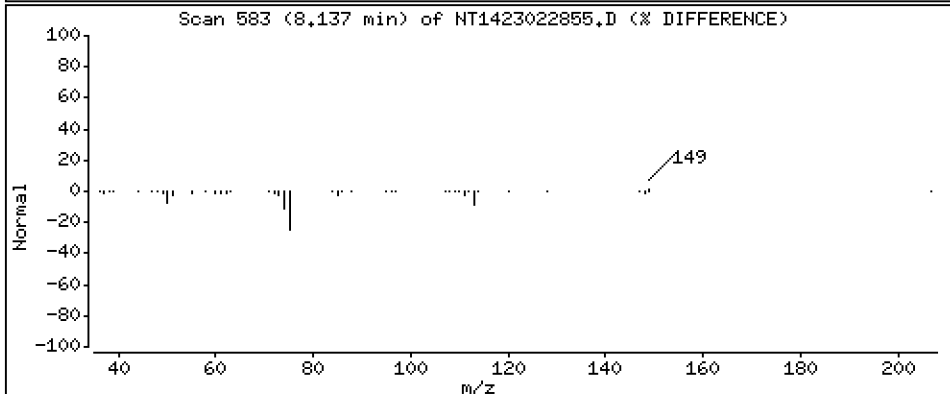
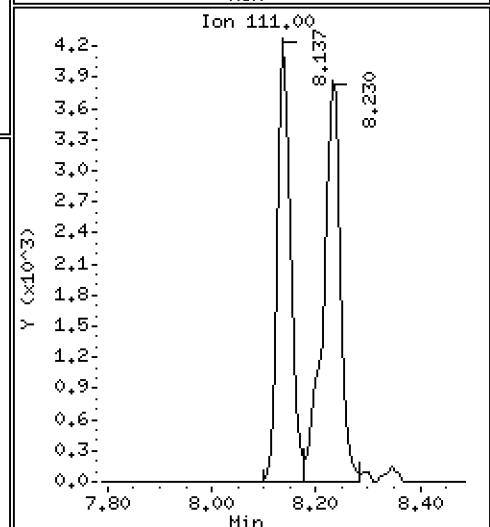
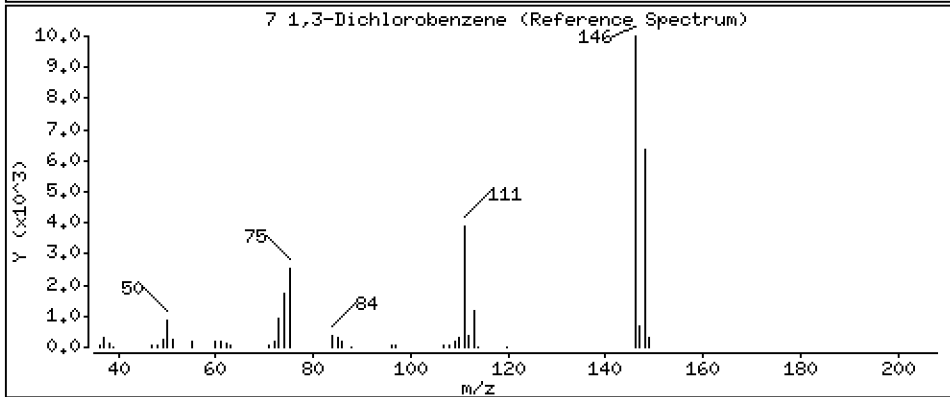
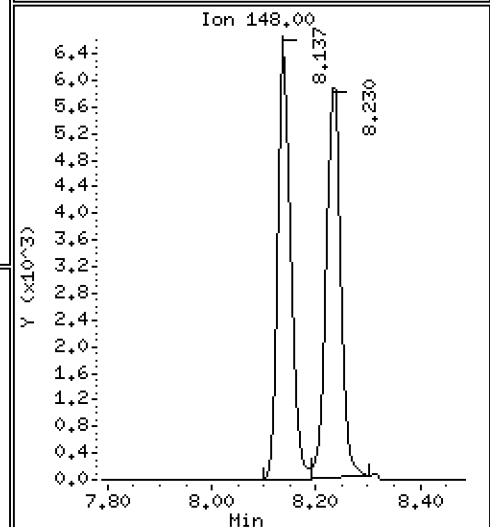
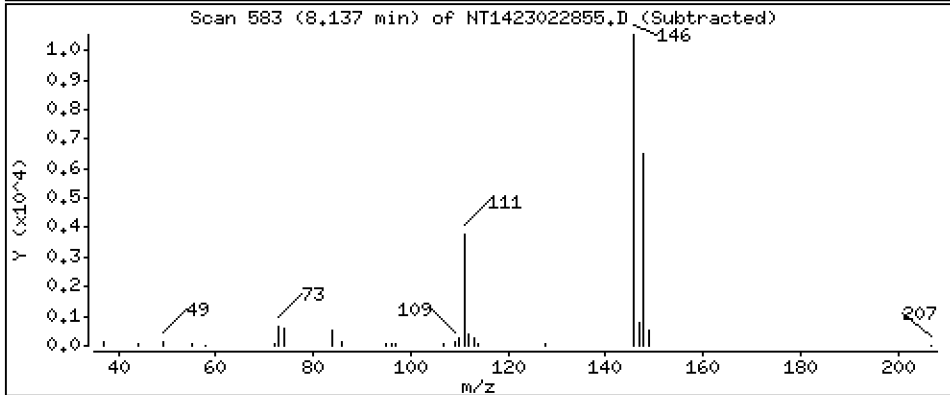
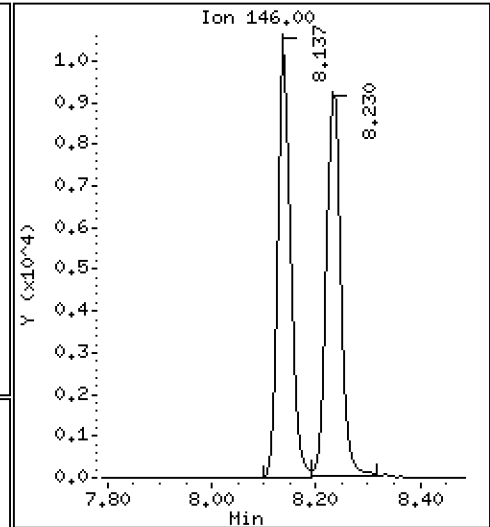
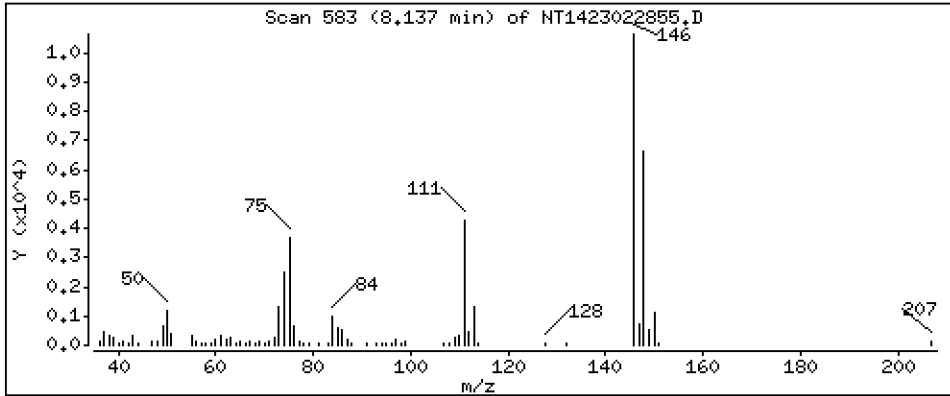
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 4,326 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

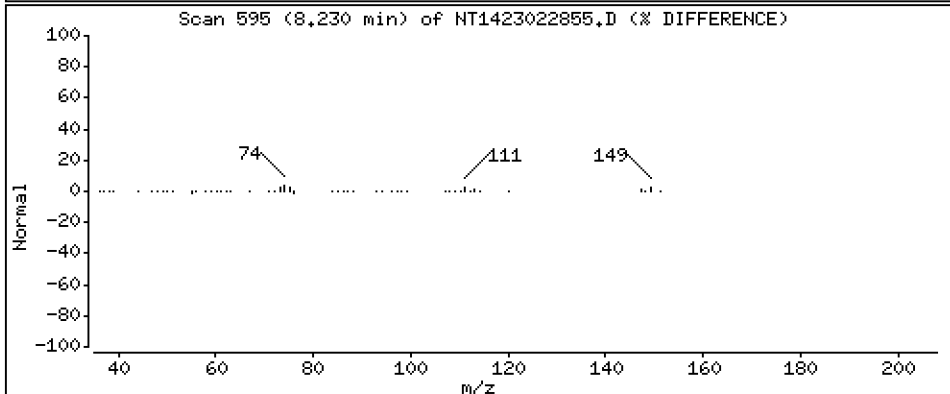
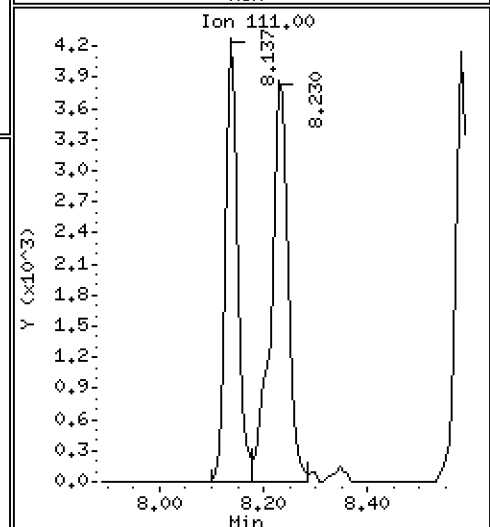
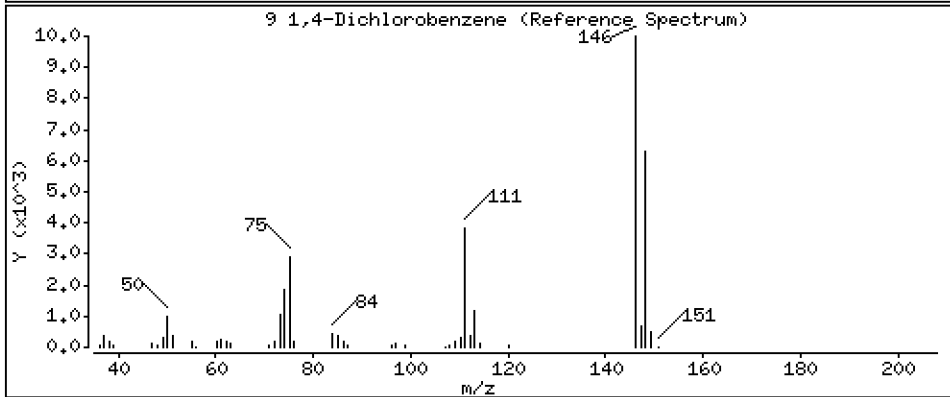
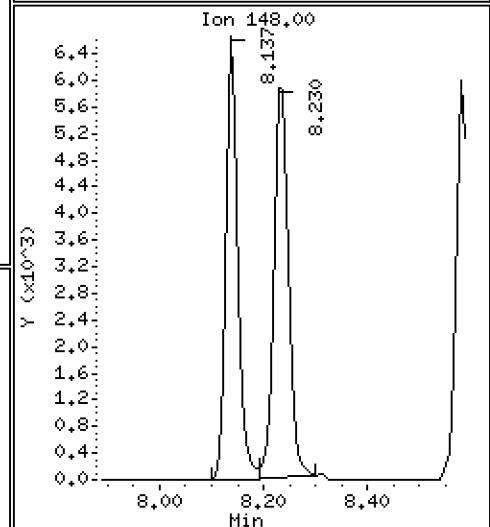
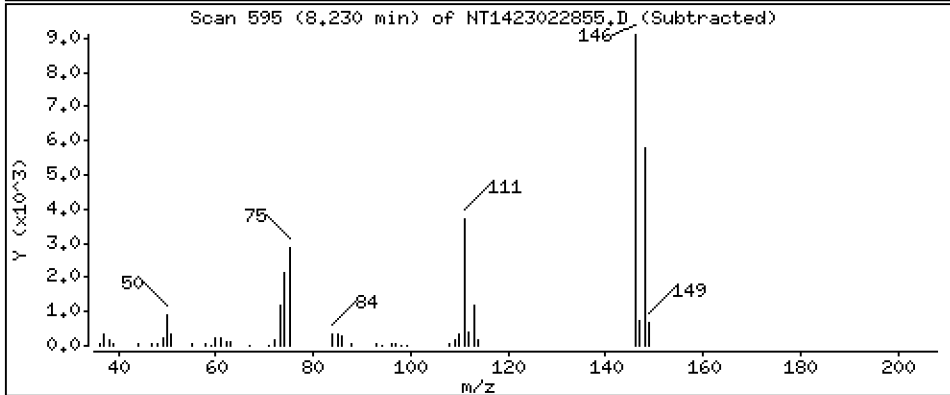
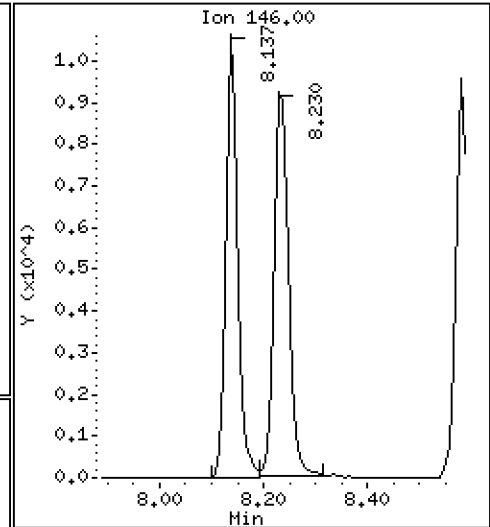
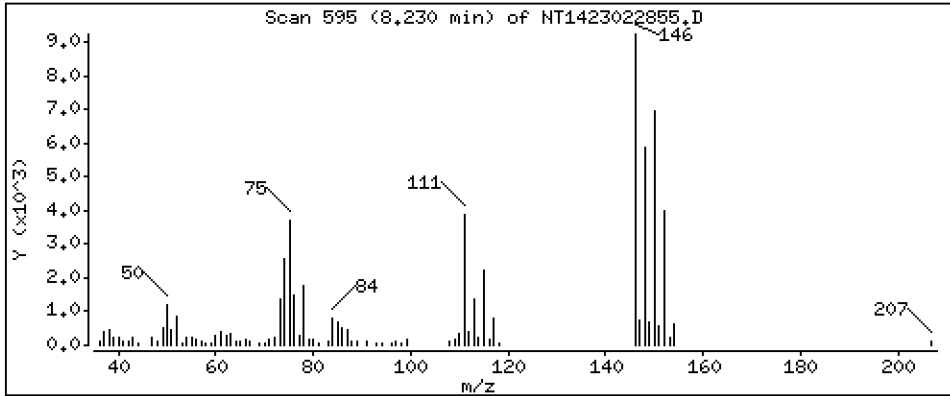
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,342 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

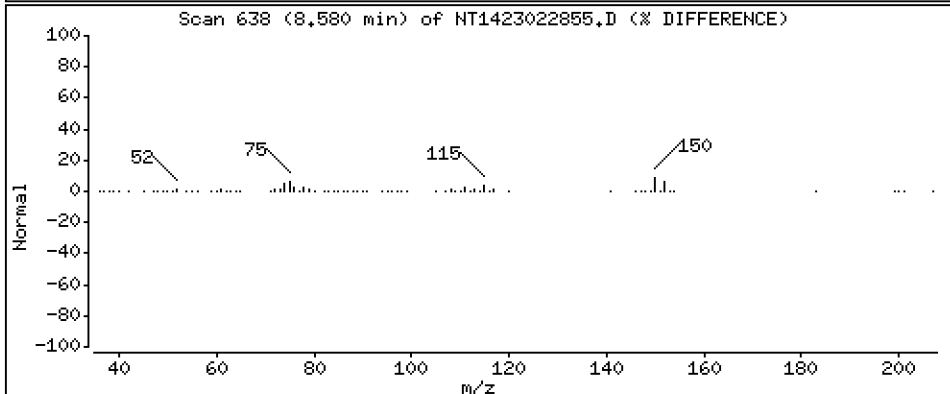
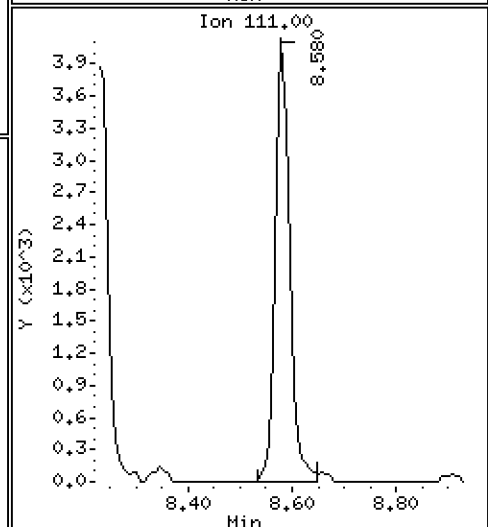
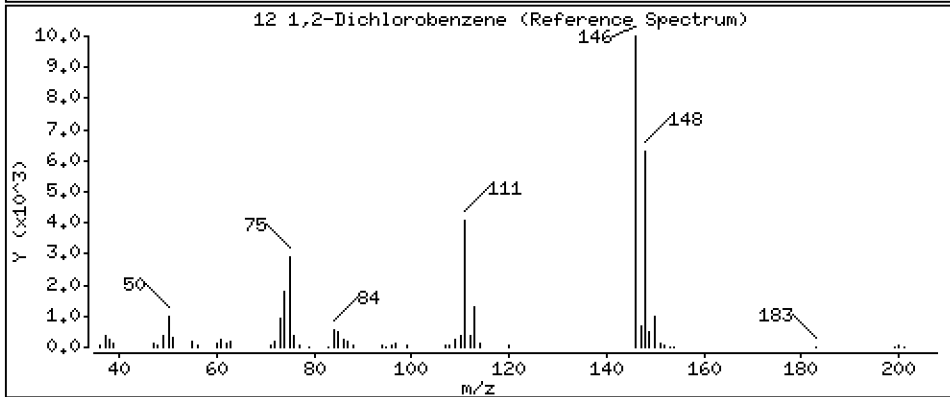
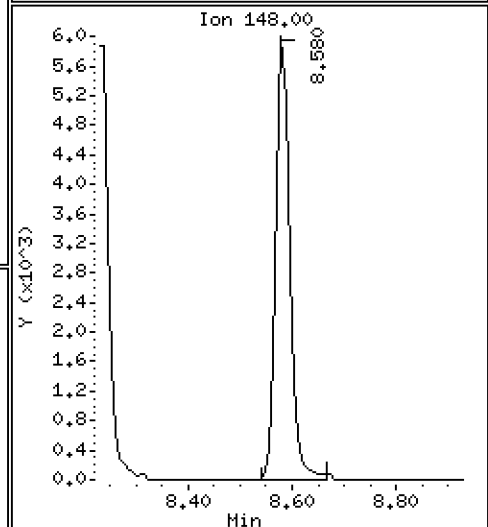
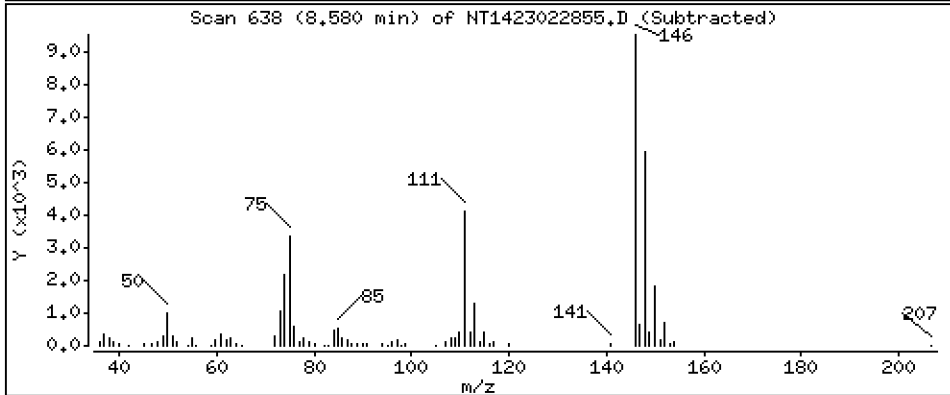
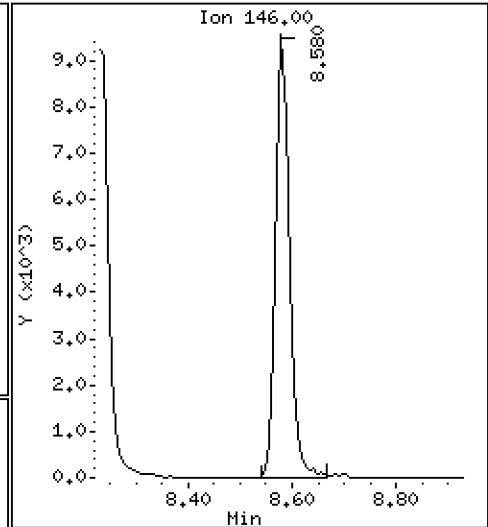
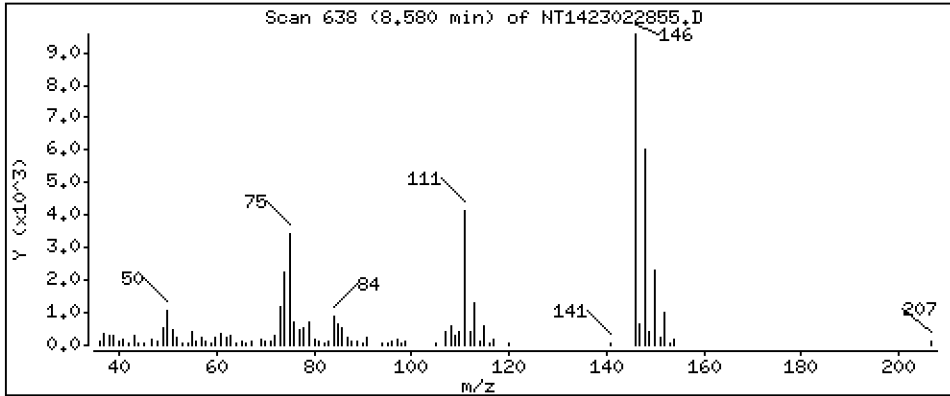
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,442 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

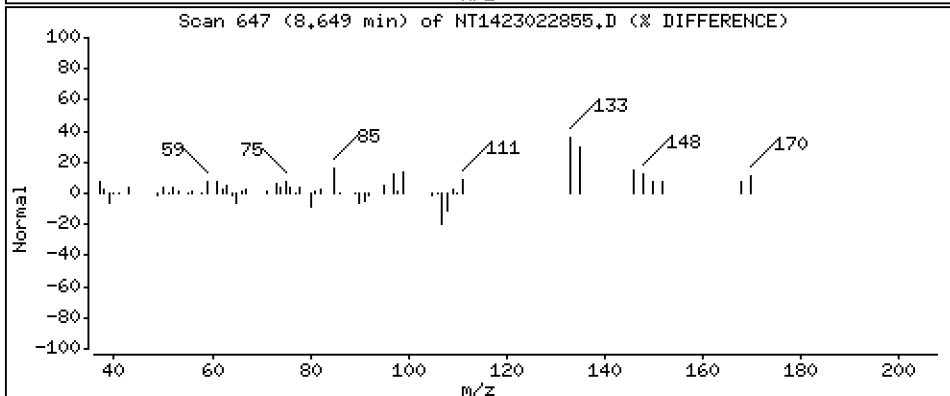
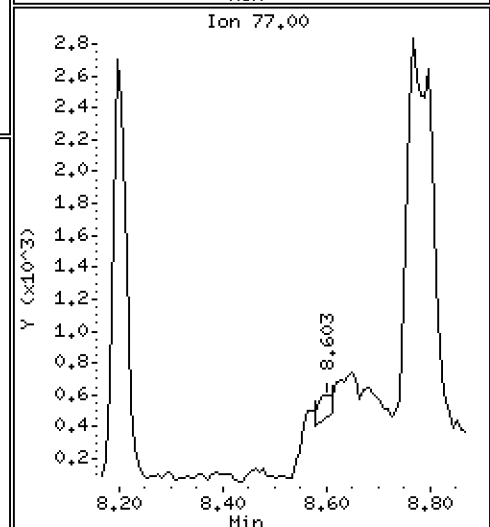
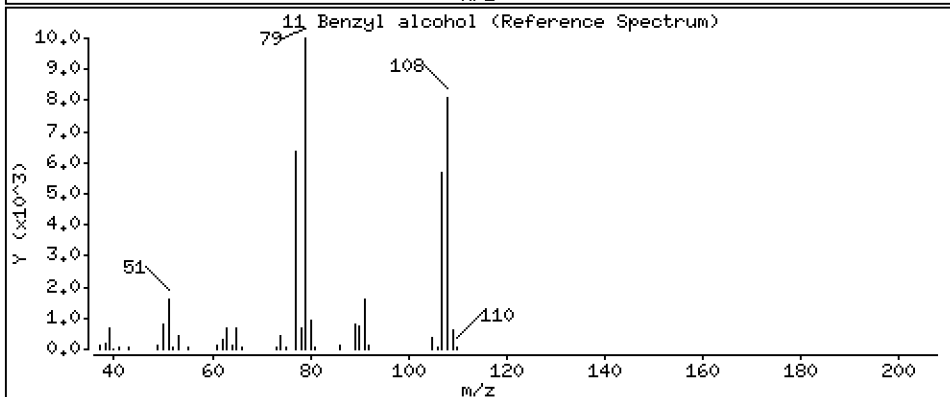
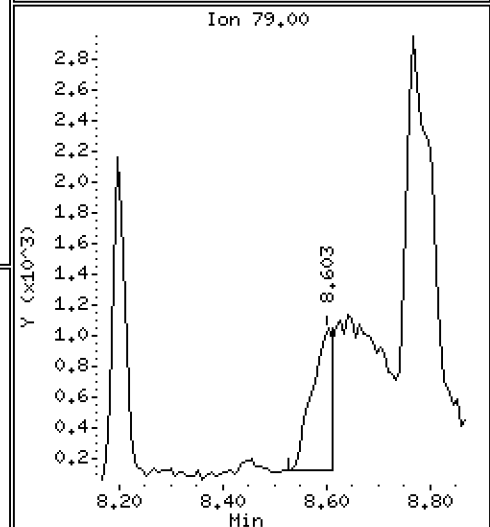
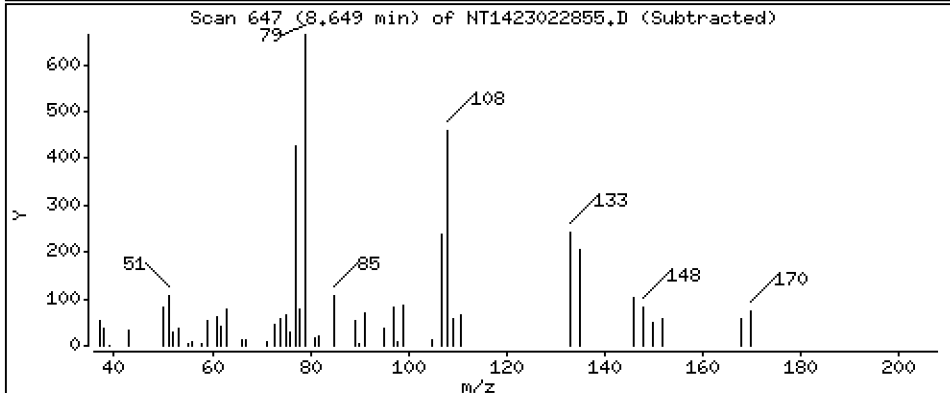
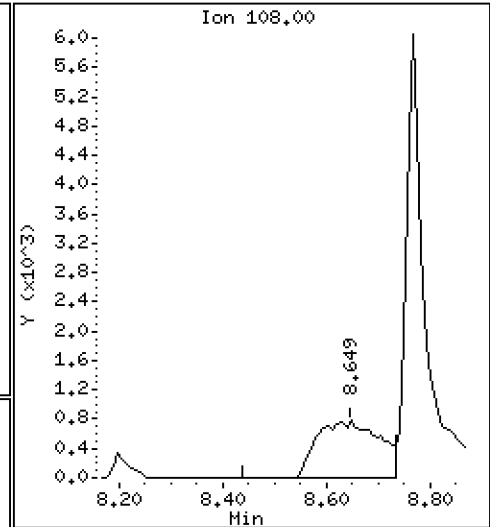
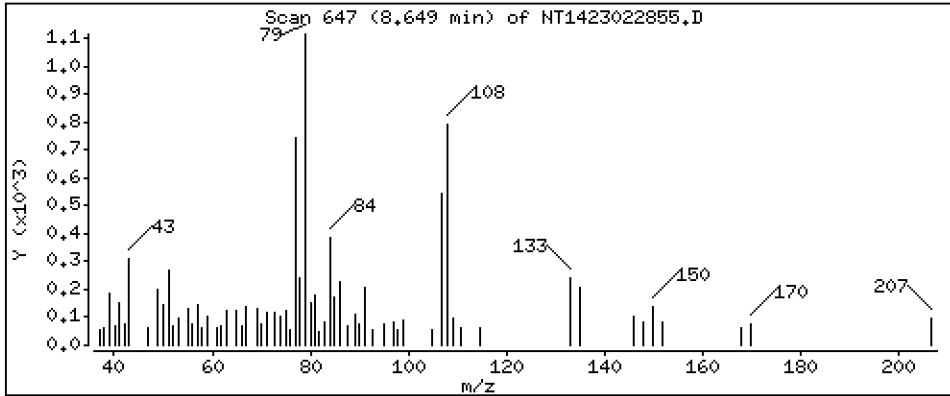
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 3,037 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

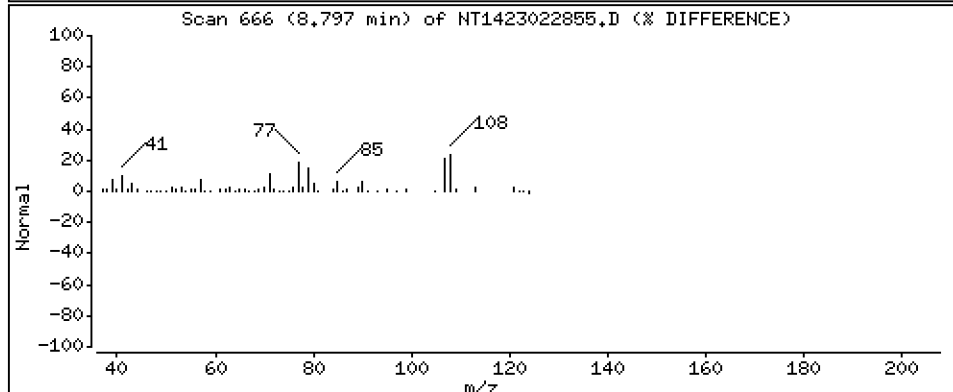
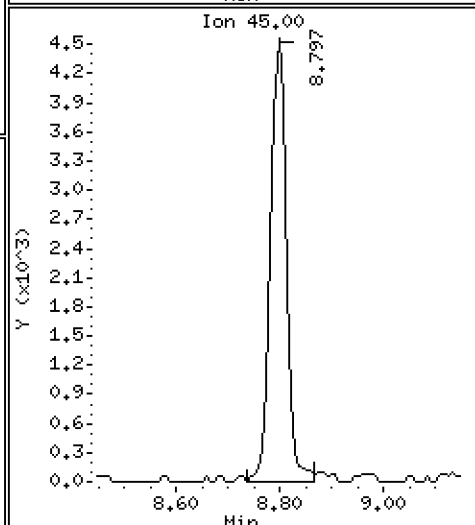
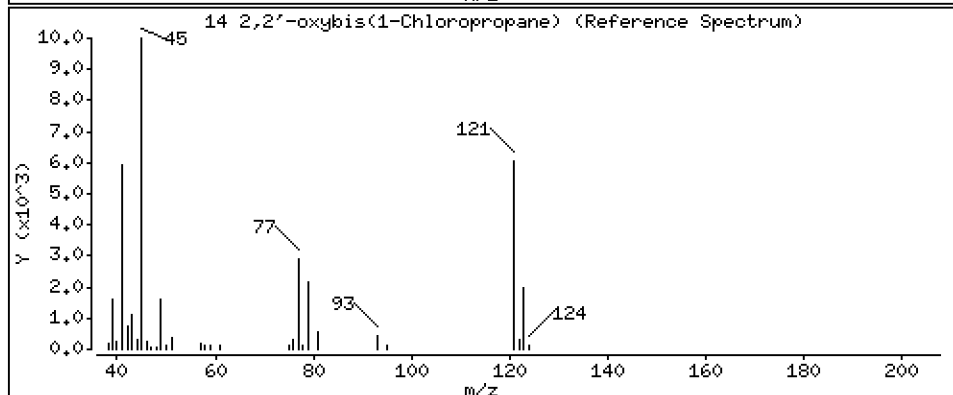
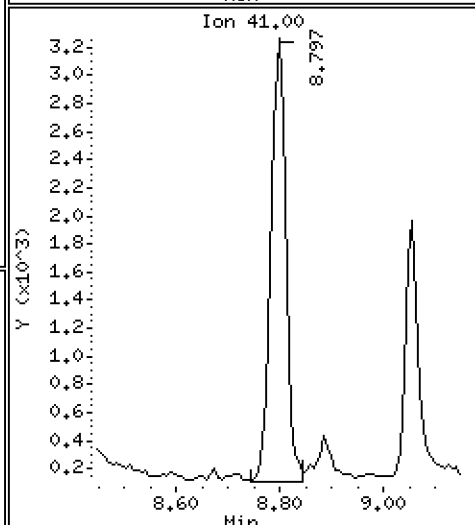
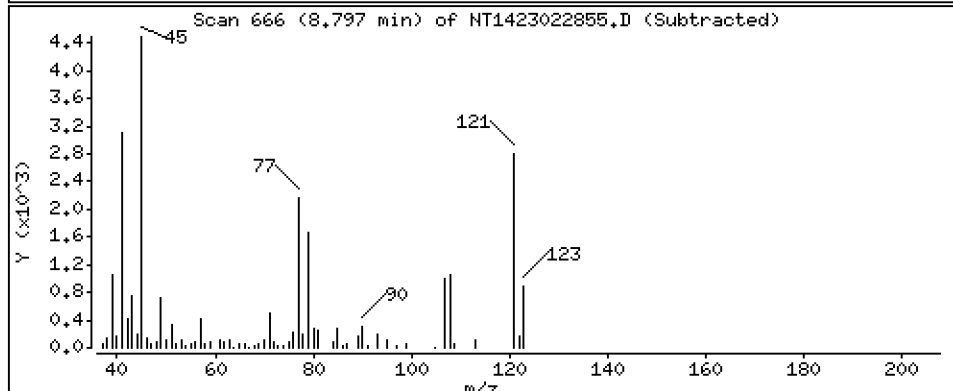
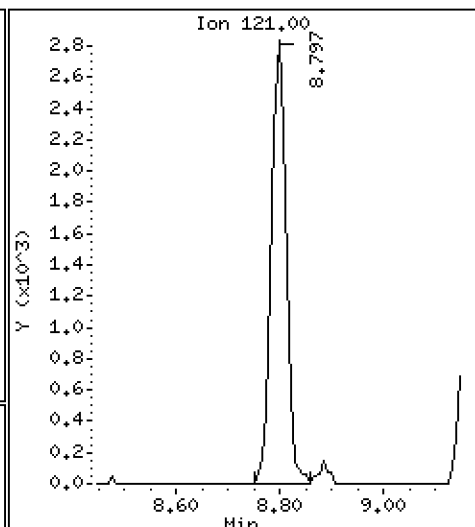
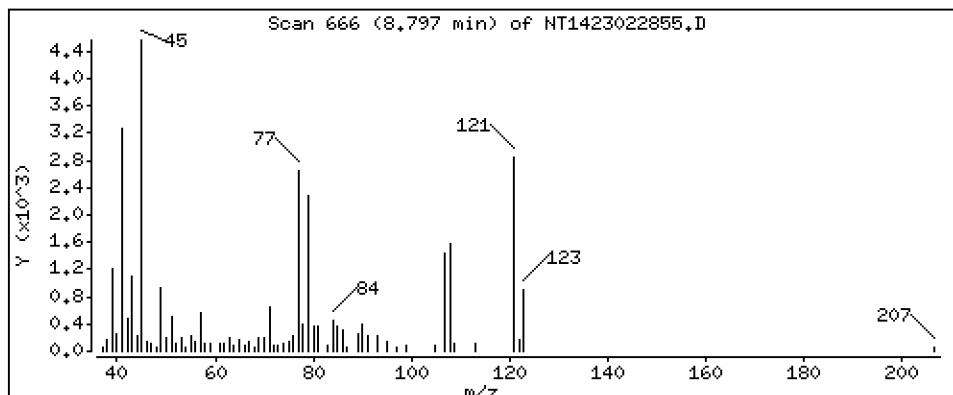
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 5,317 ug/mL





Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

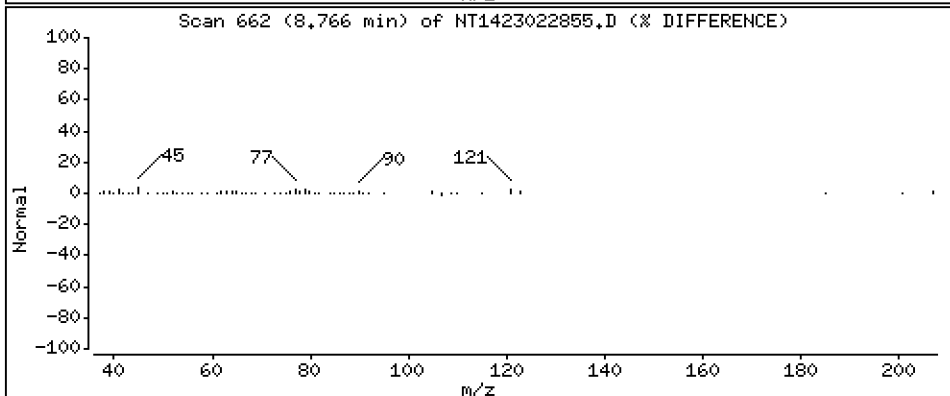
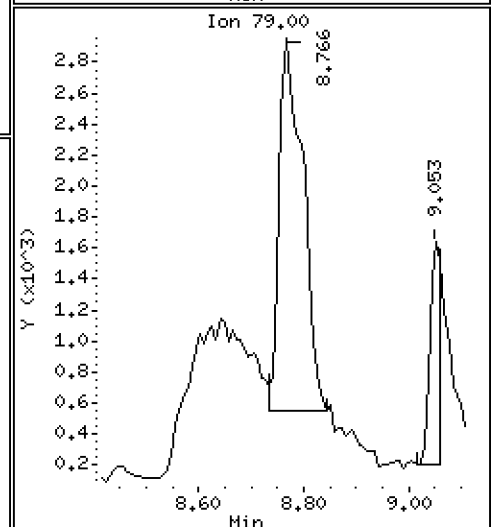
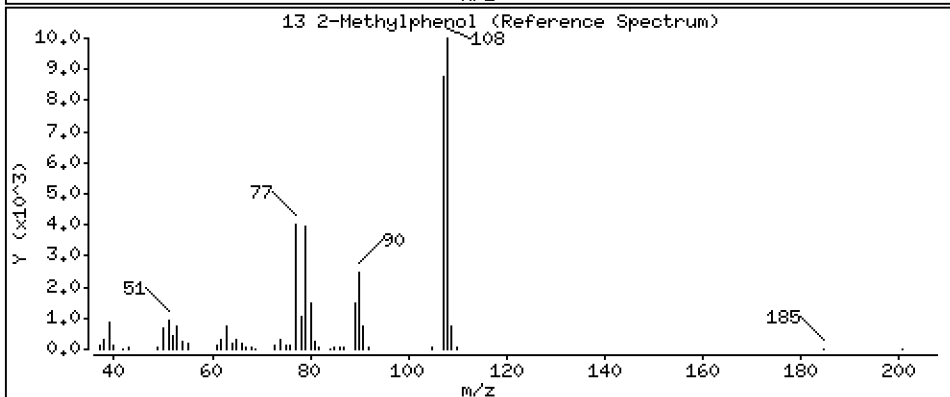
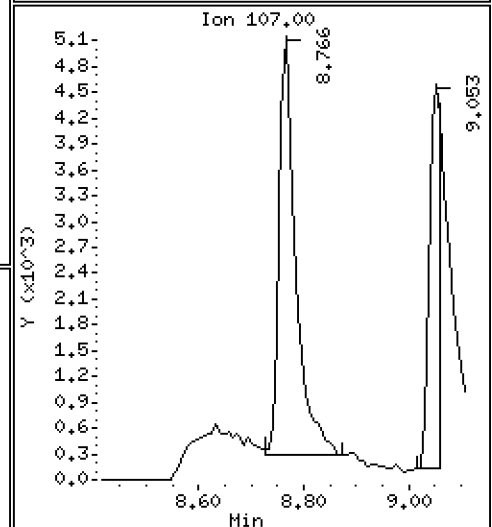
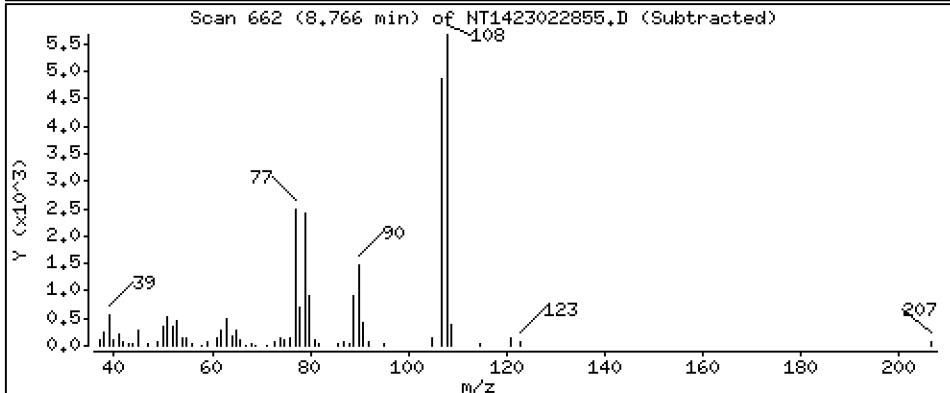
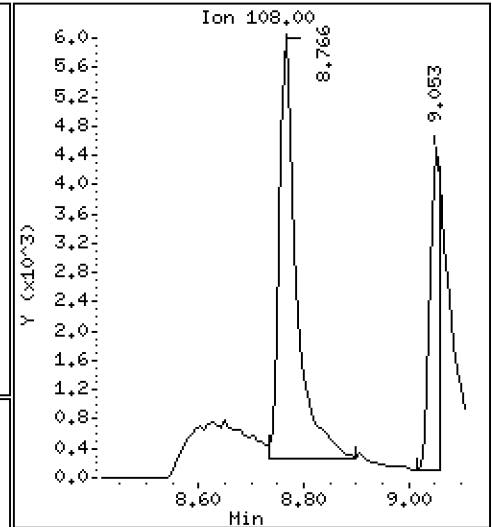
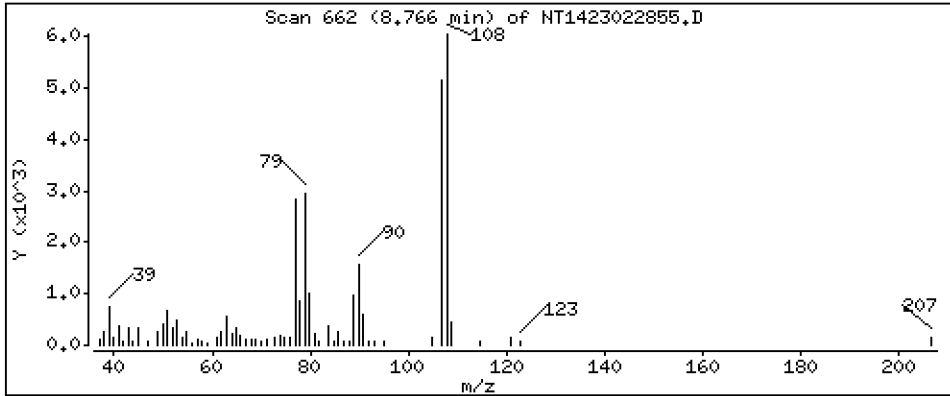
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 4,052 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

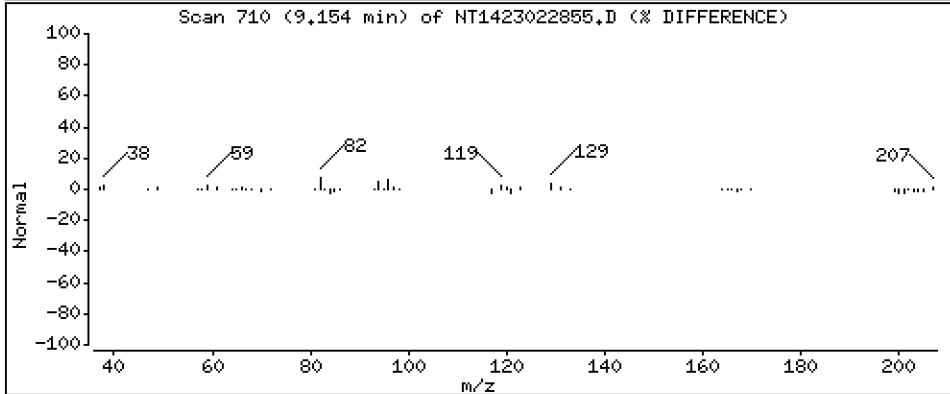
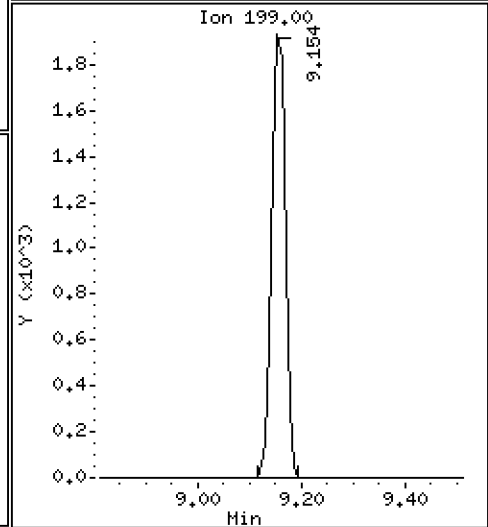
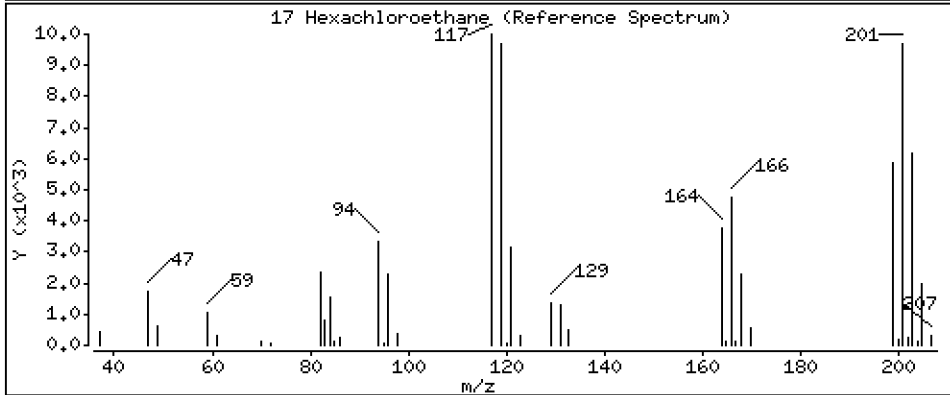
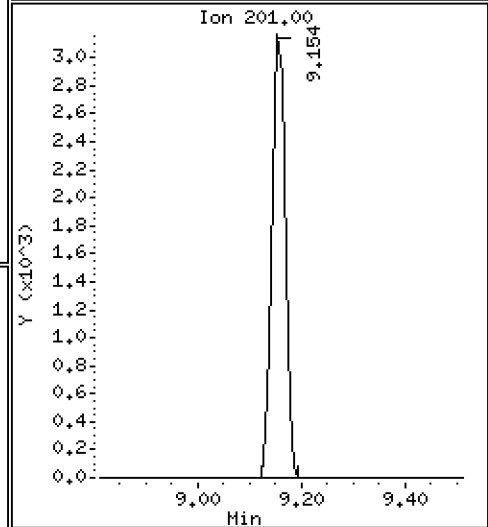
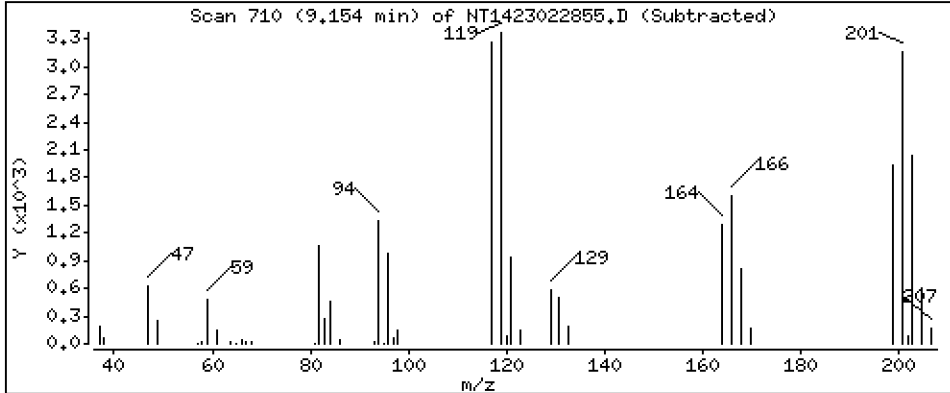
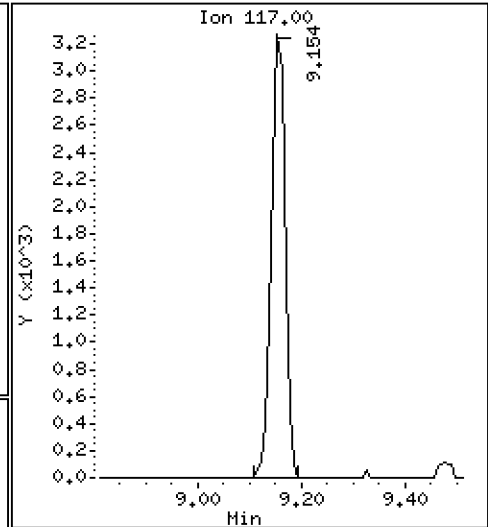
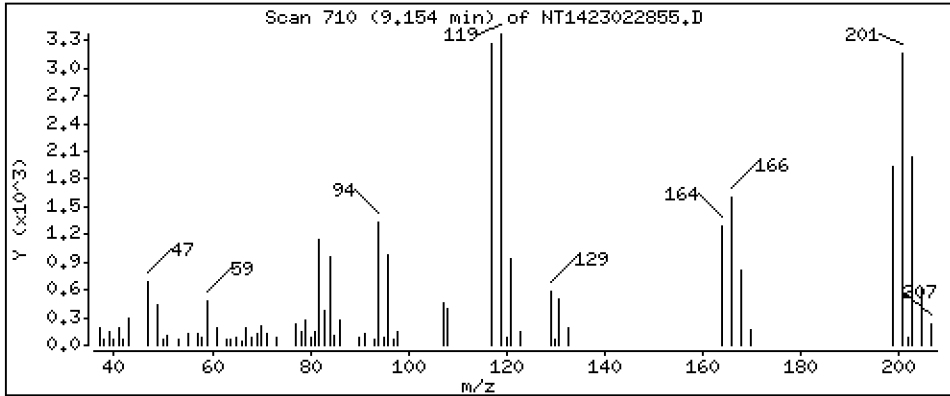
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 3,853 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

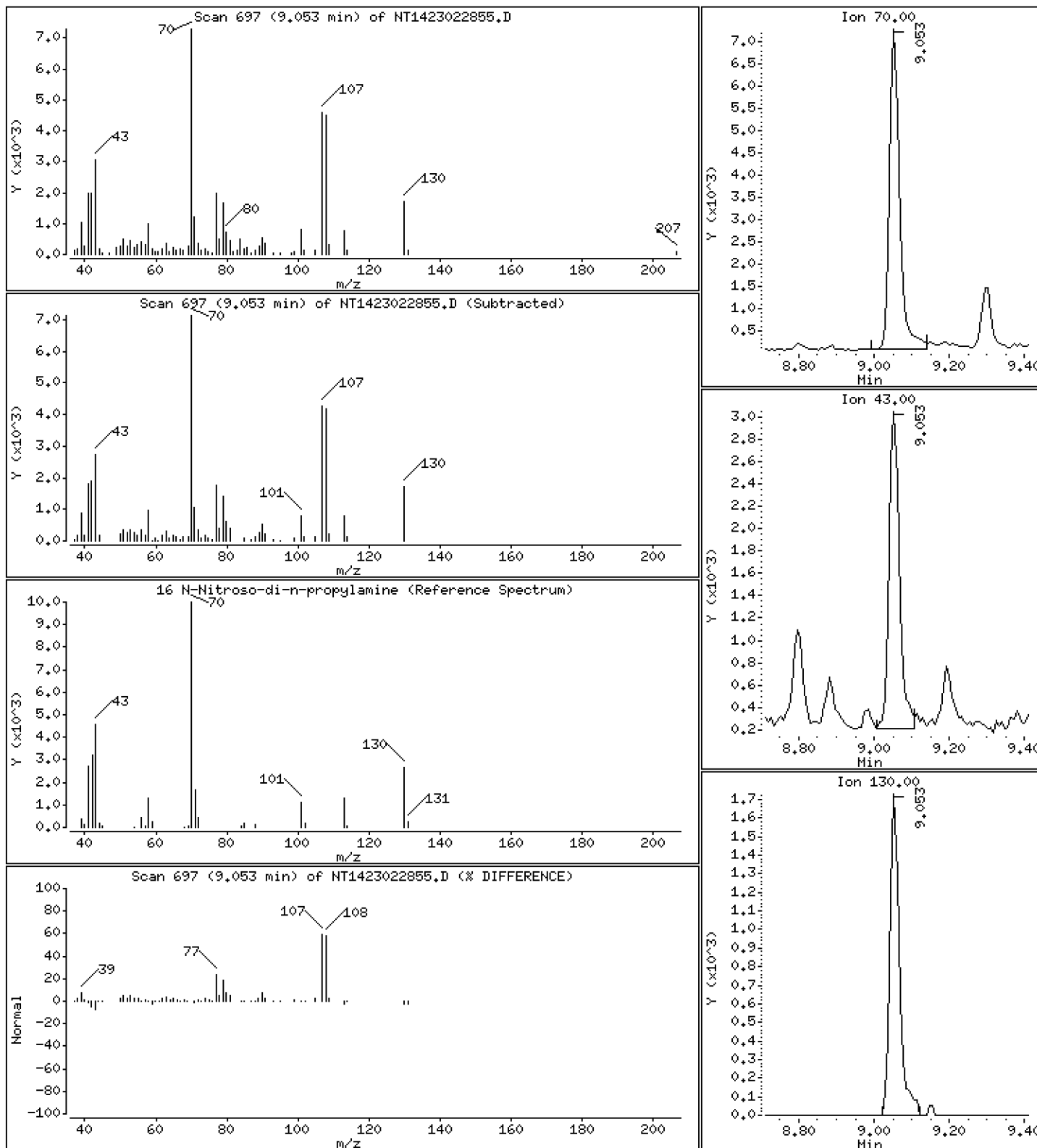
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,453 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

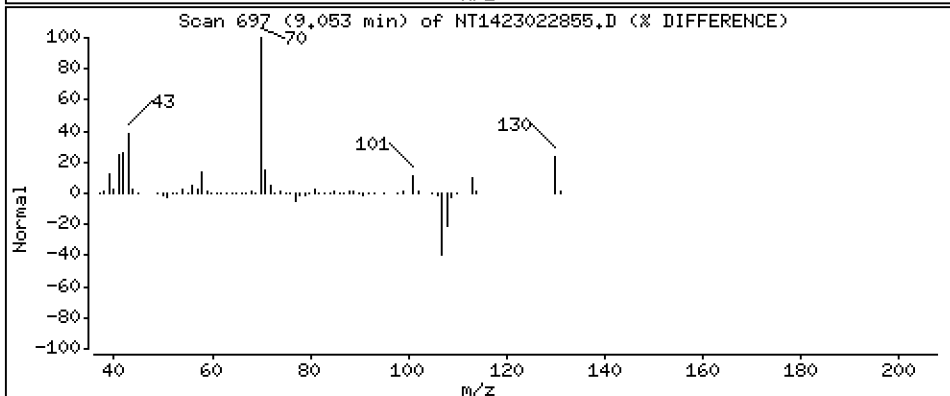
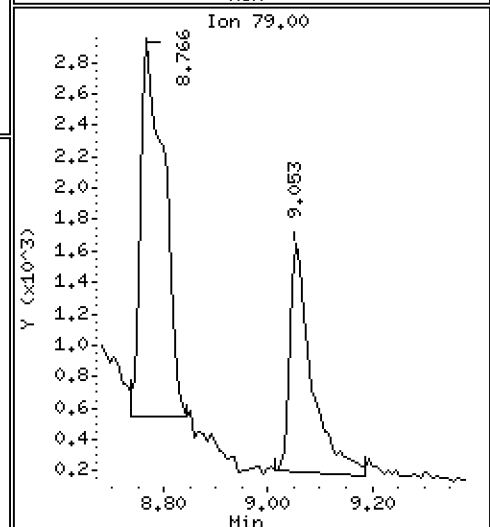
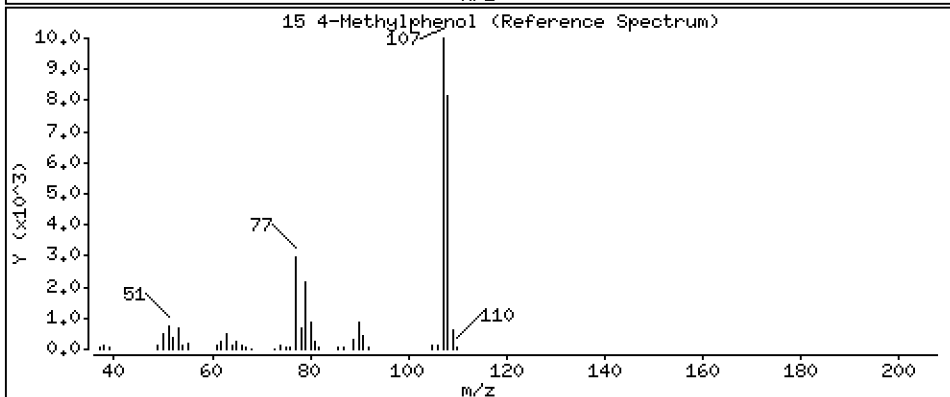
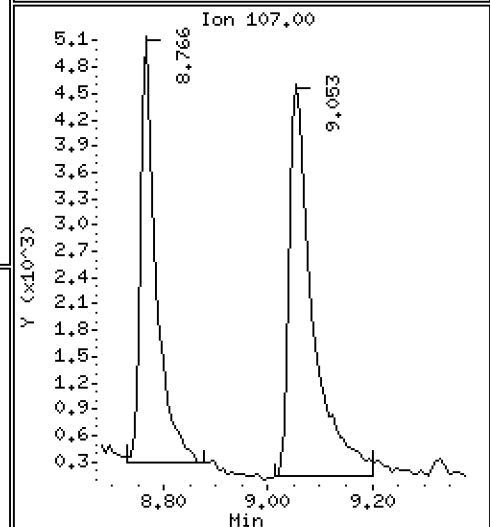
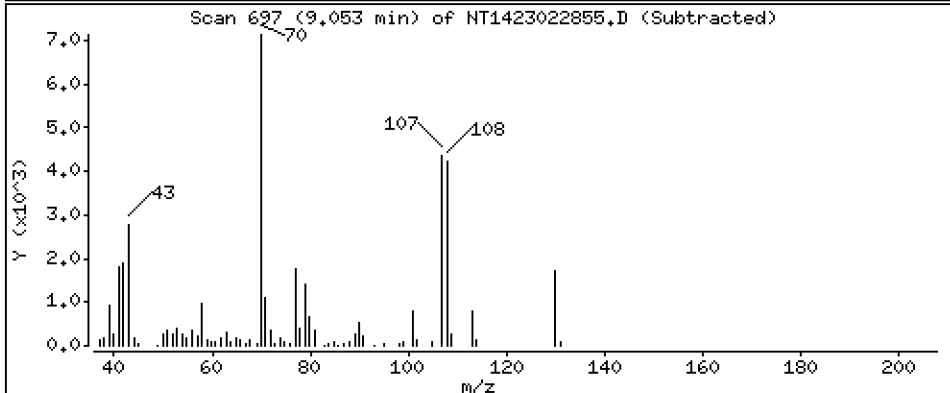
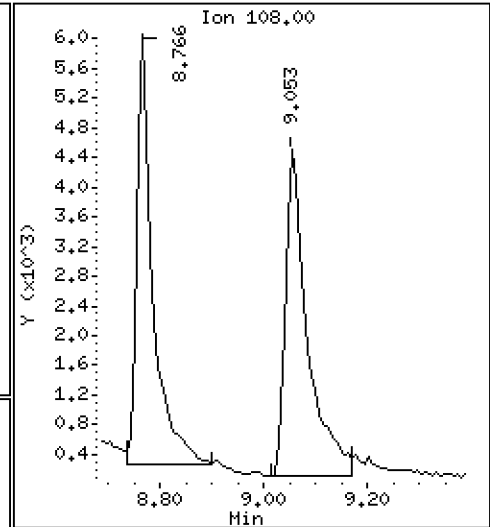
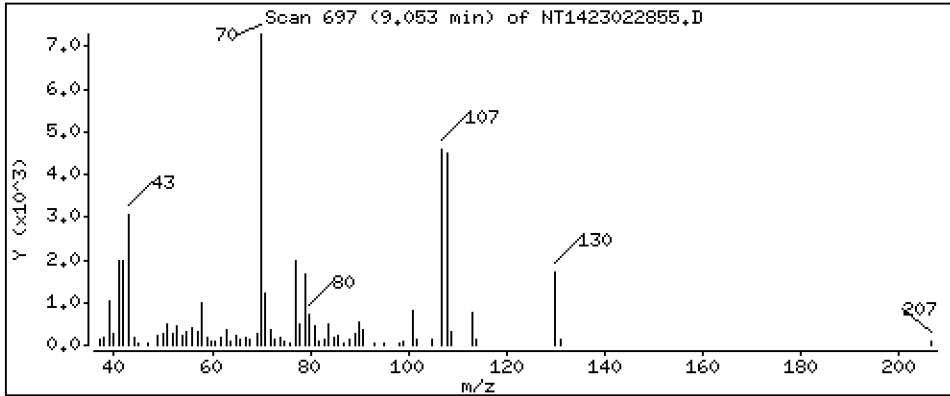
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 3,609 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

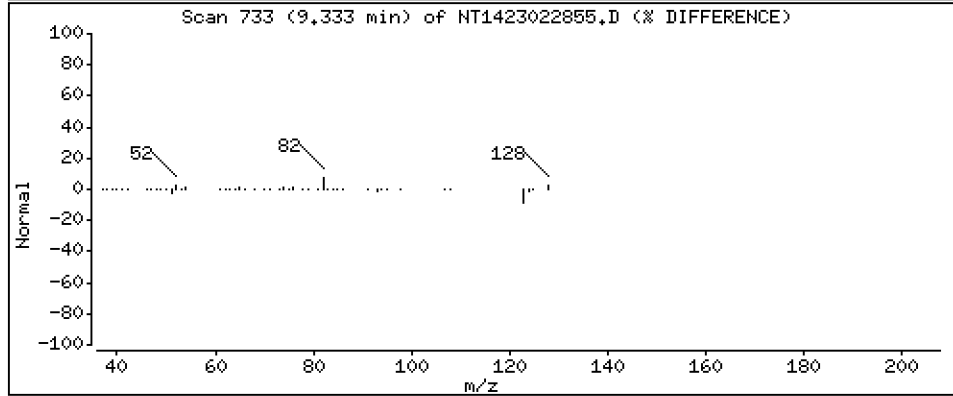
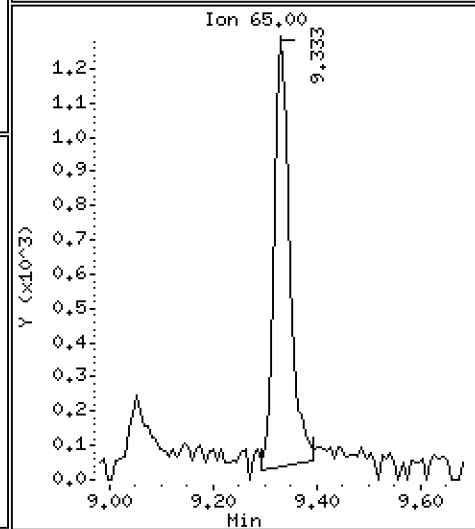
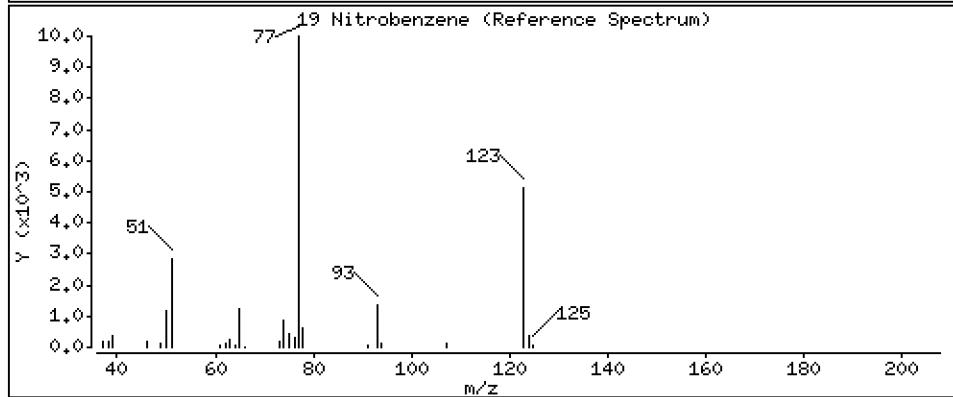
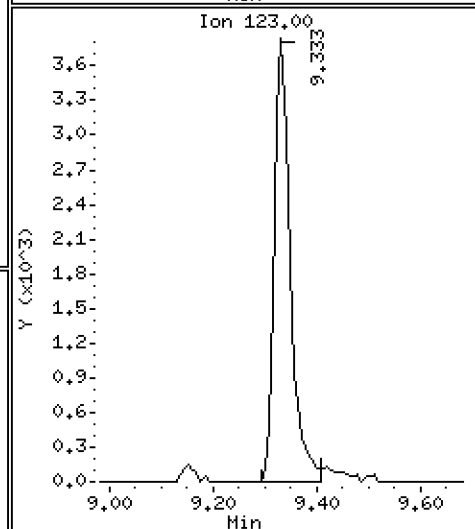
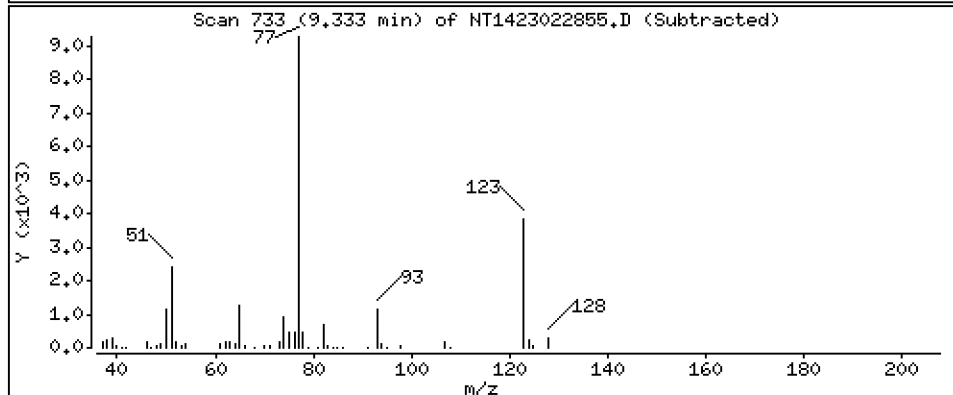
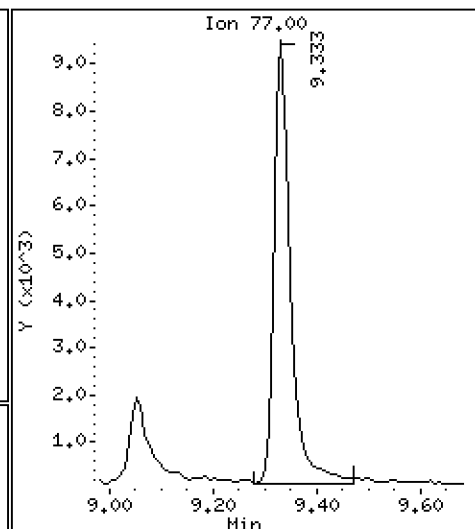
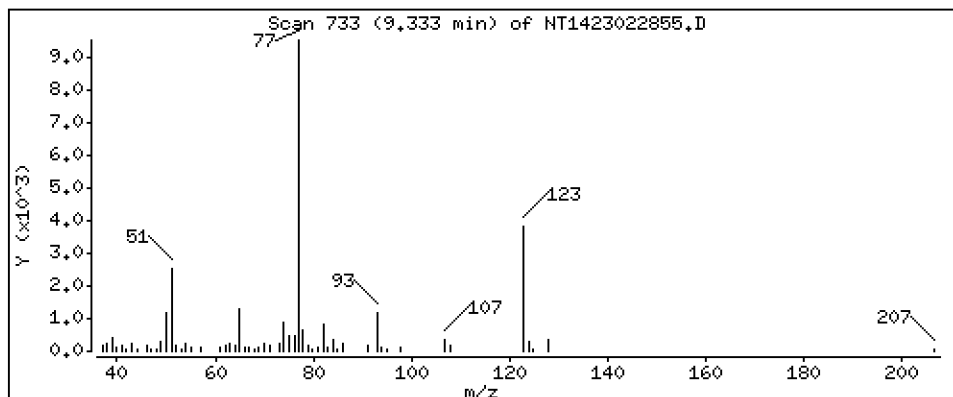
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 5,426 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

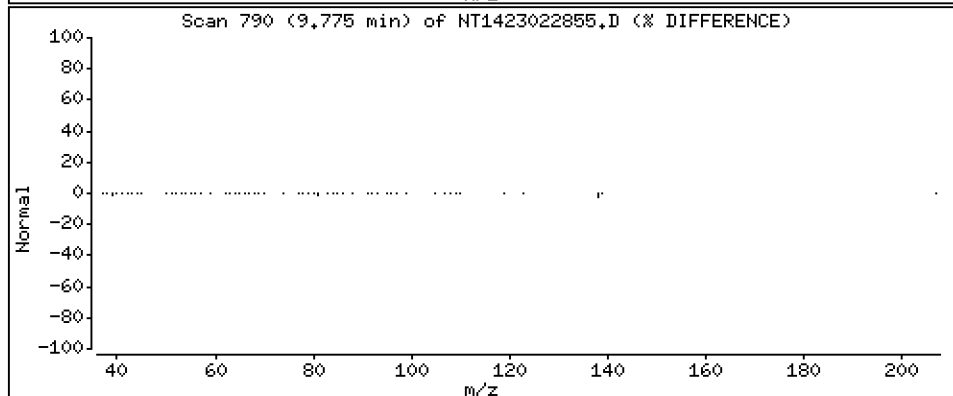
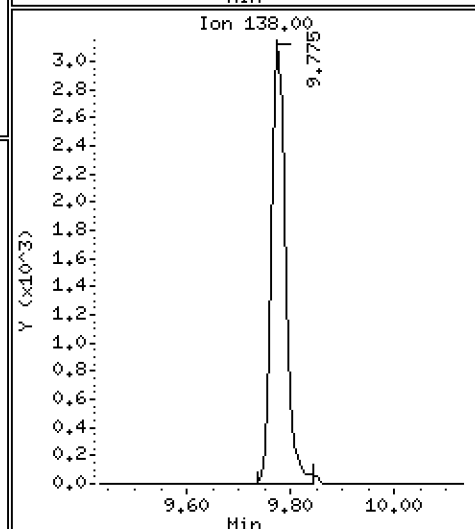
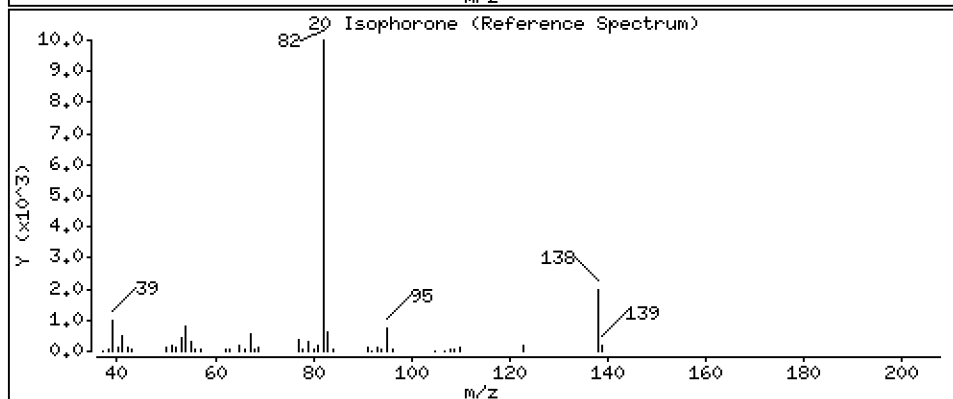
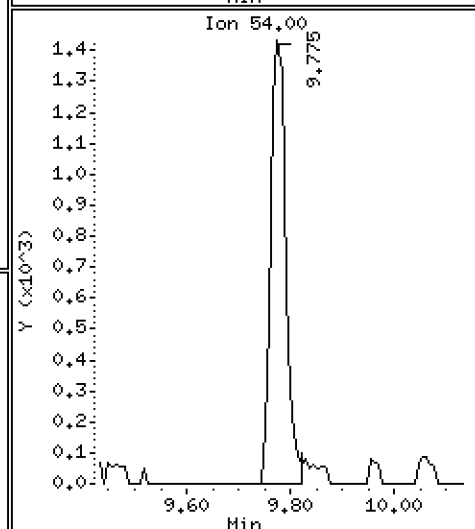
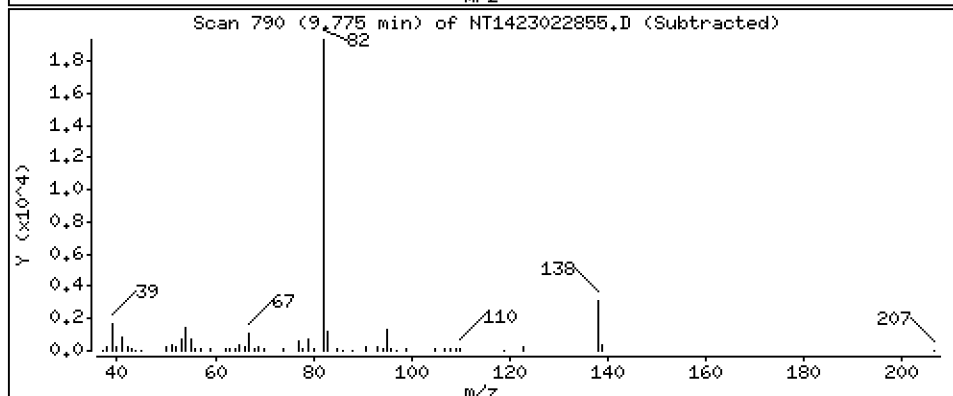
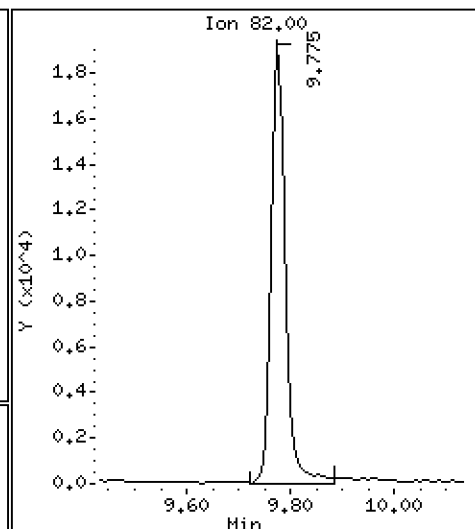
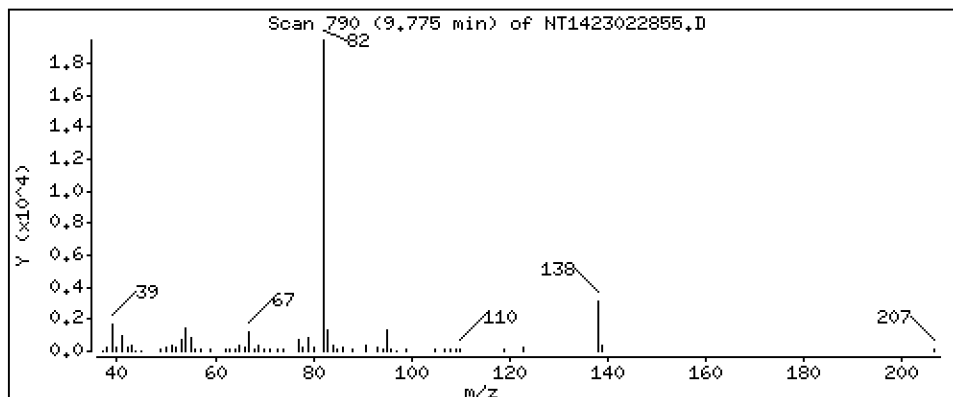
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 6,157 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

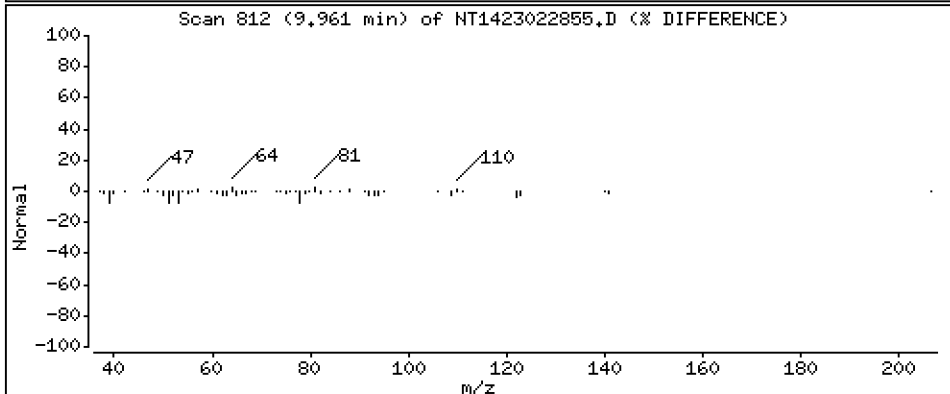
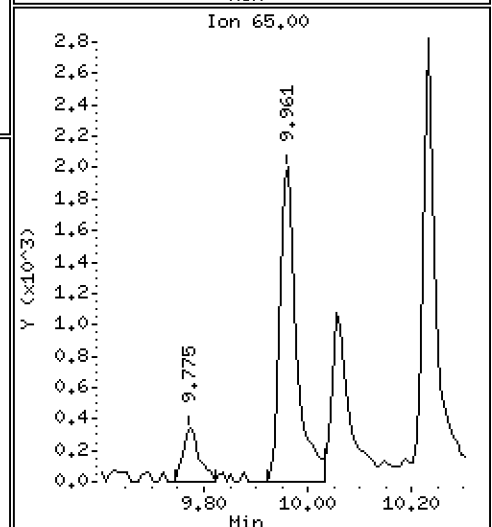
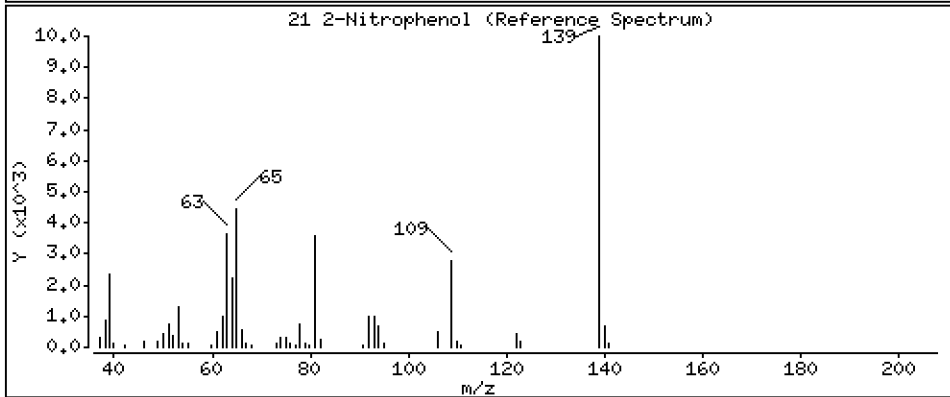
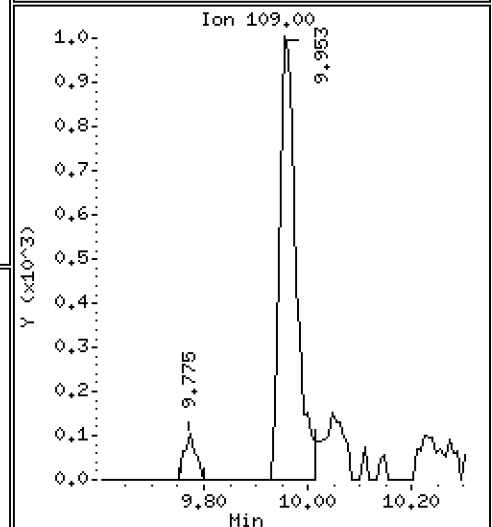
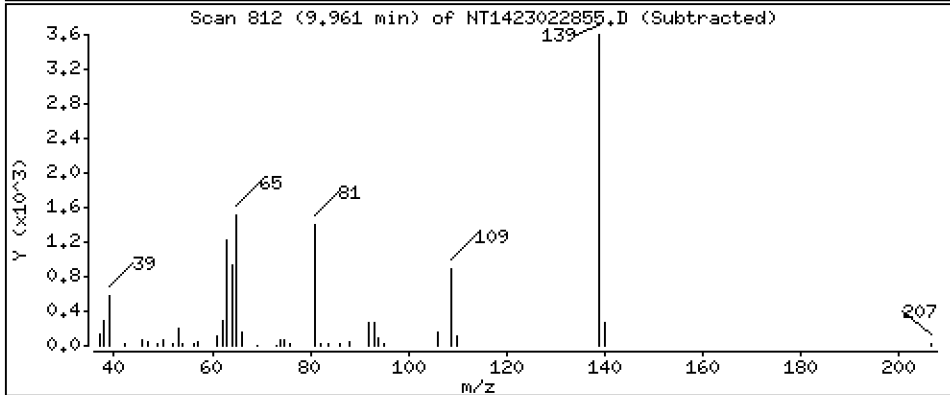
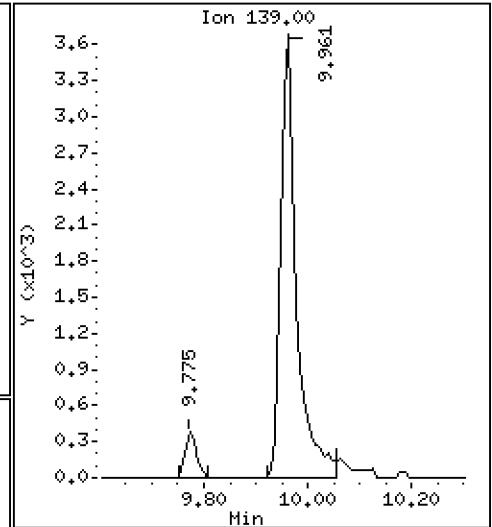
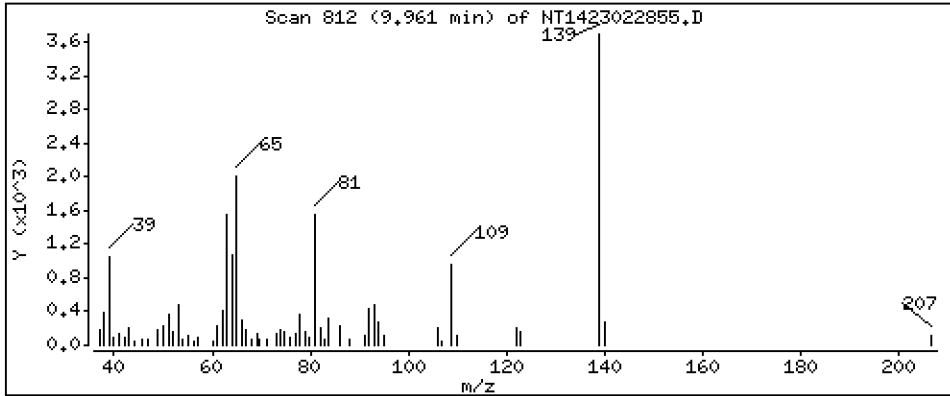
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,014 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

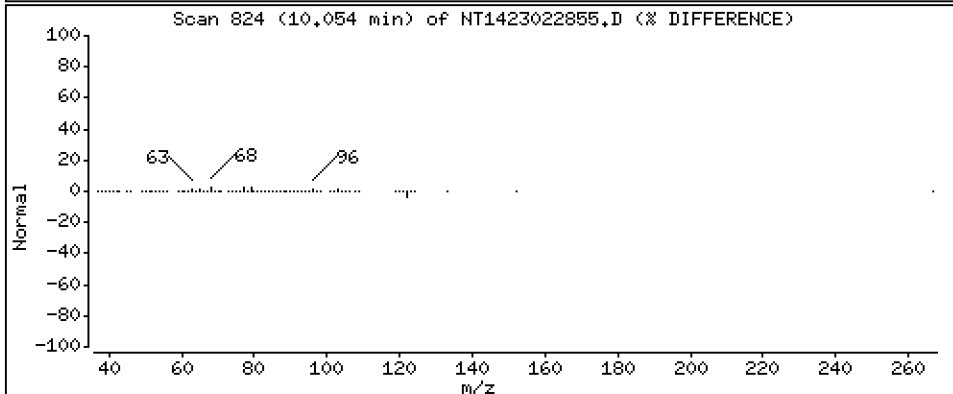
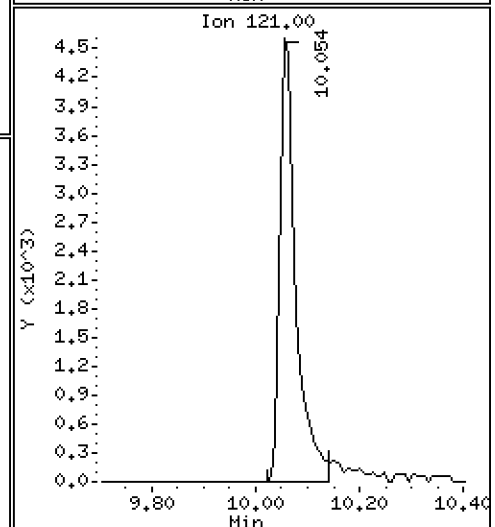
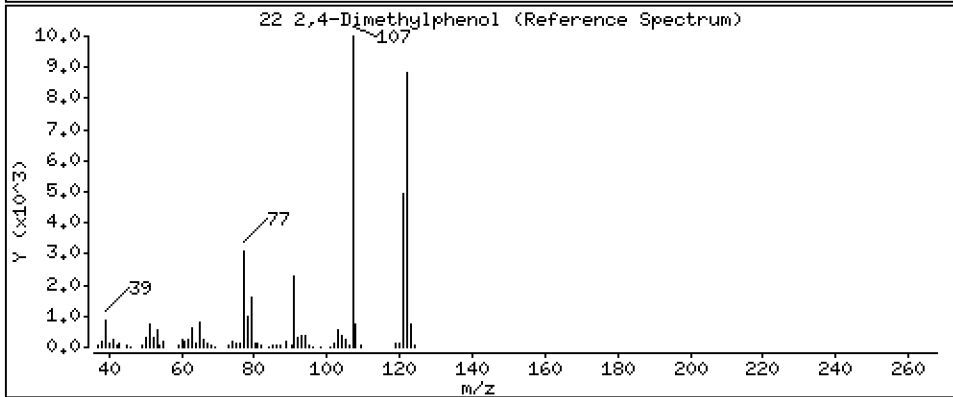
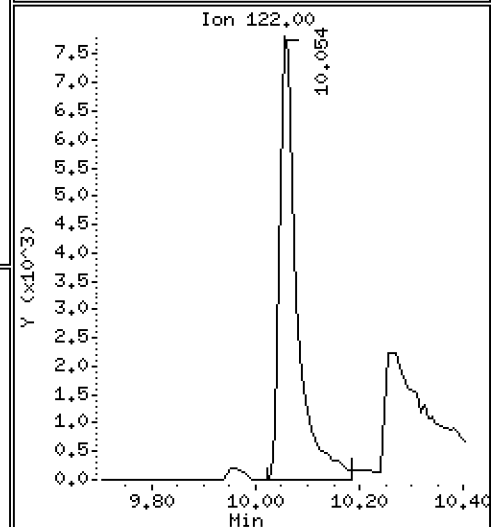
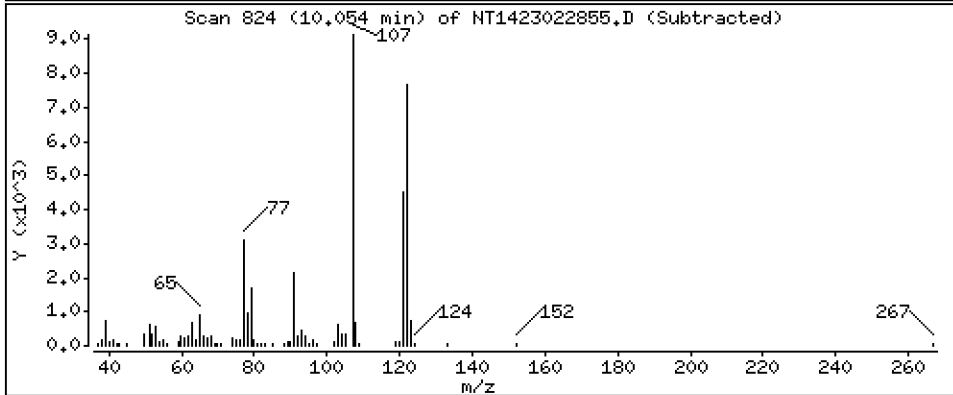
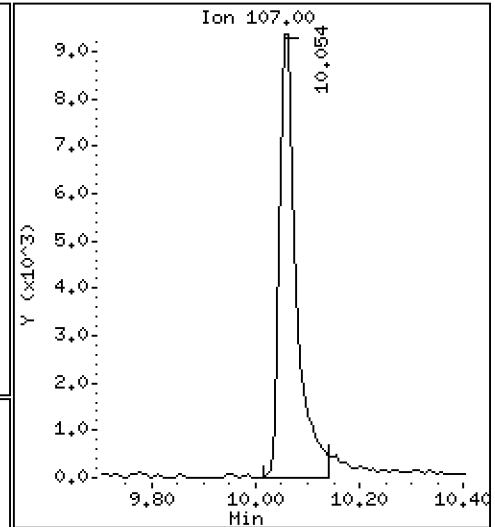
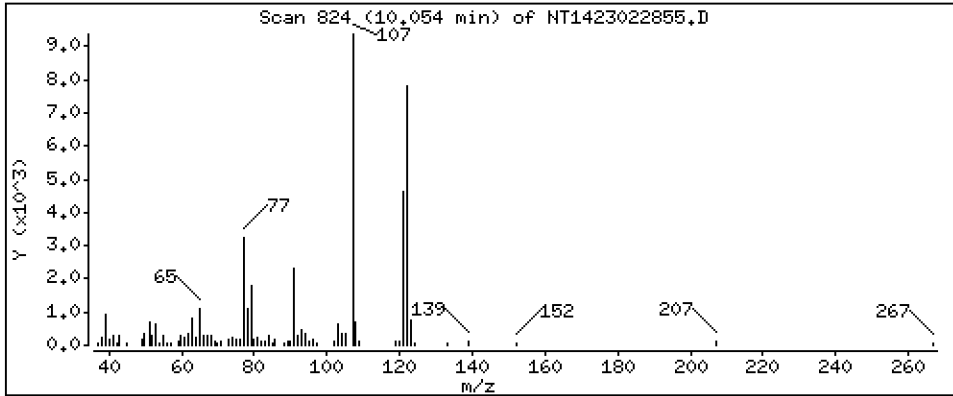
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 6,254 ug/mL





Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

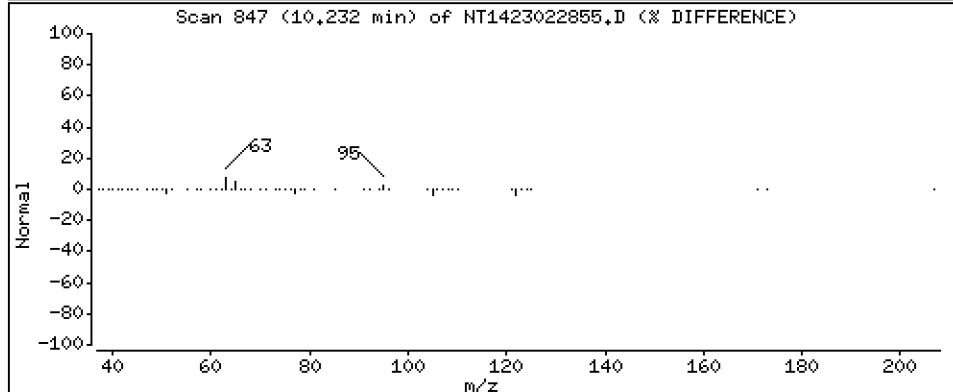
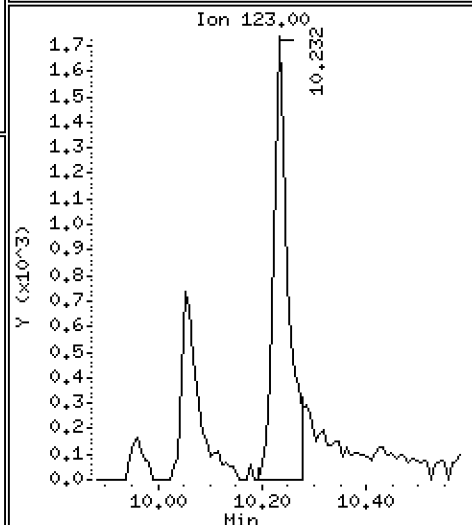
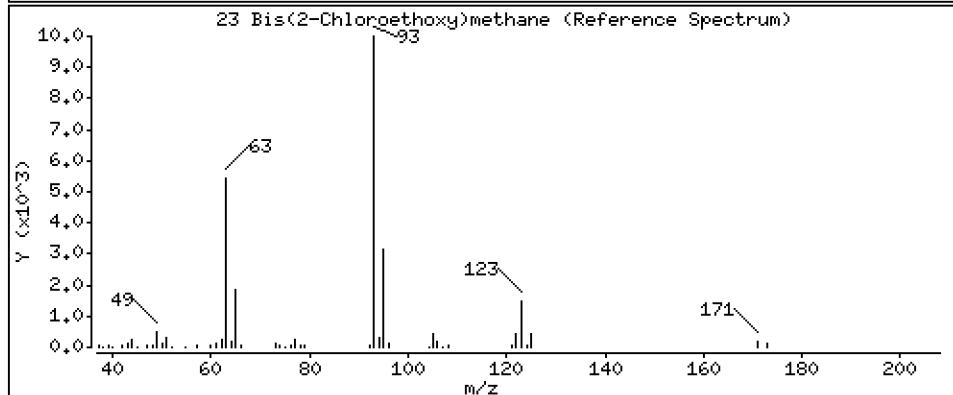
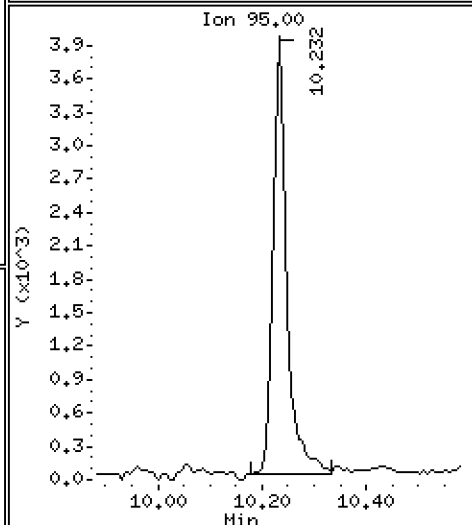
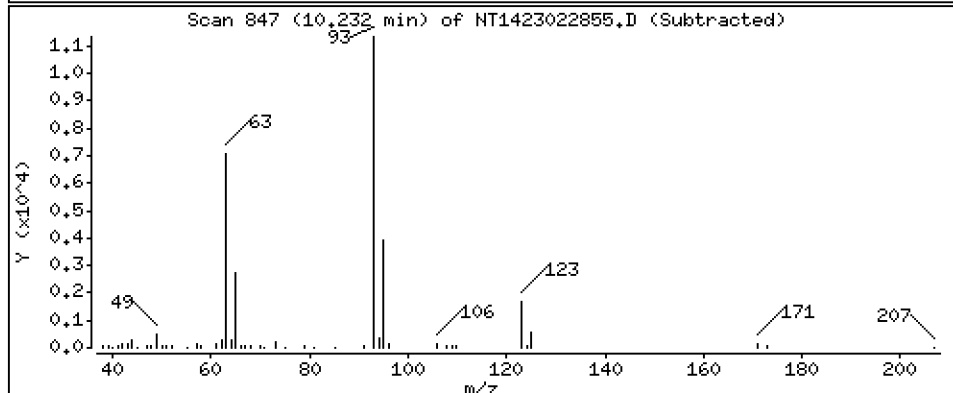
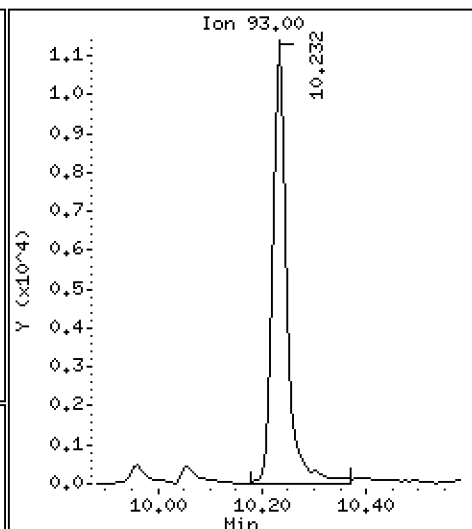
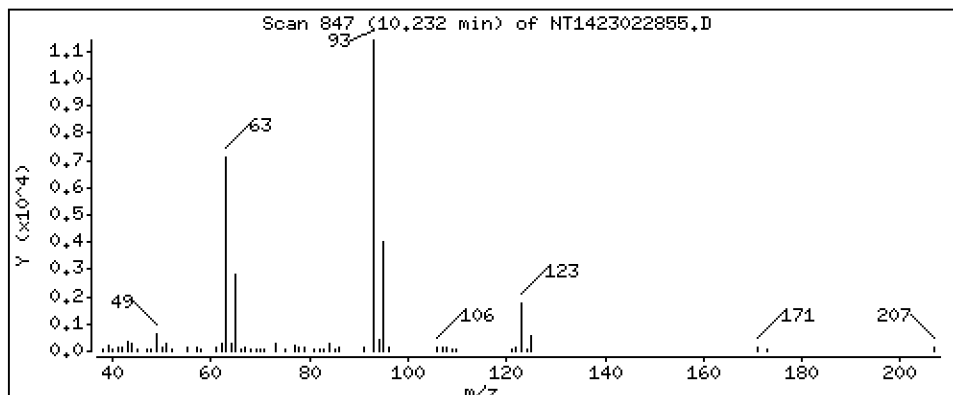
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,779 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

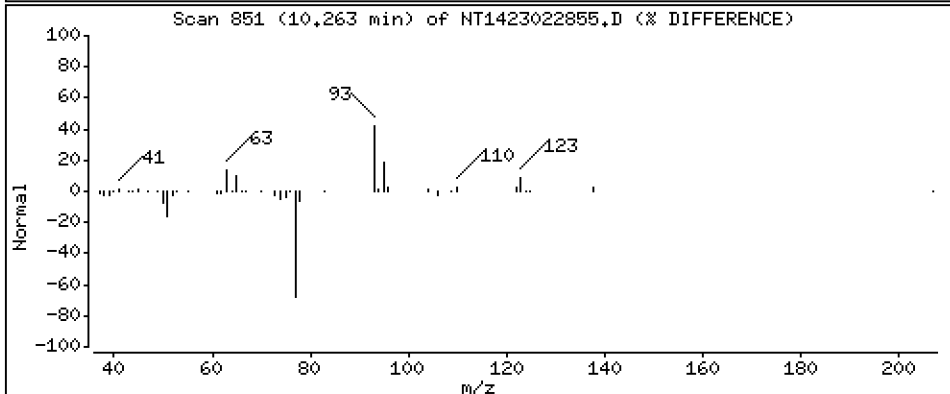
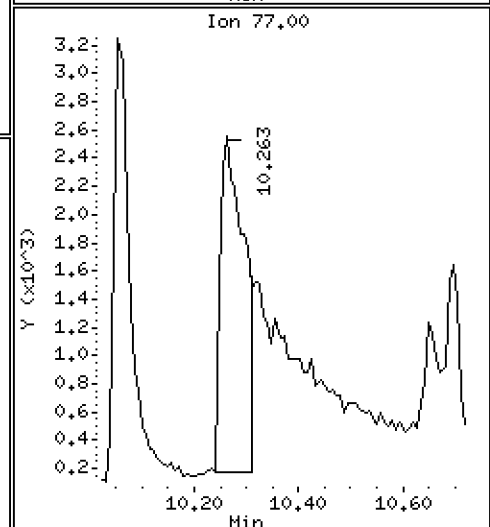
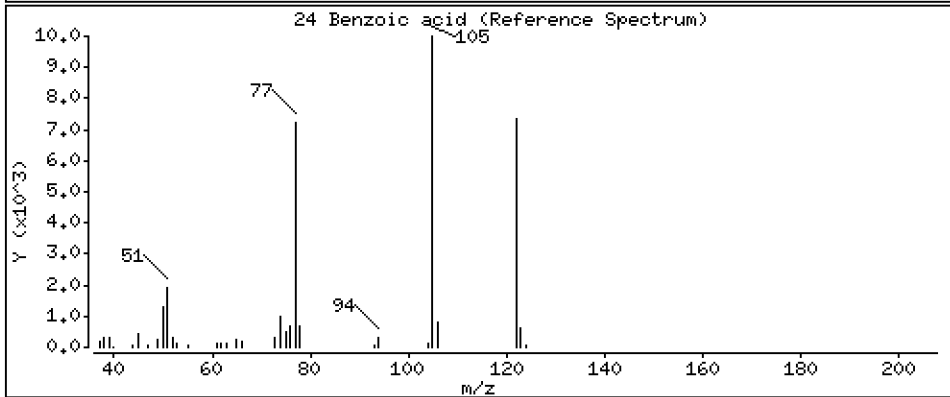
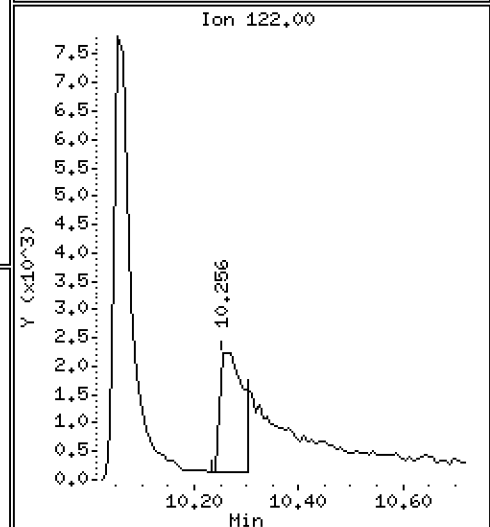
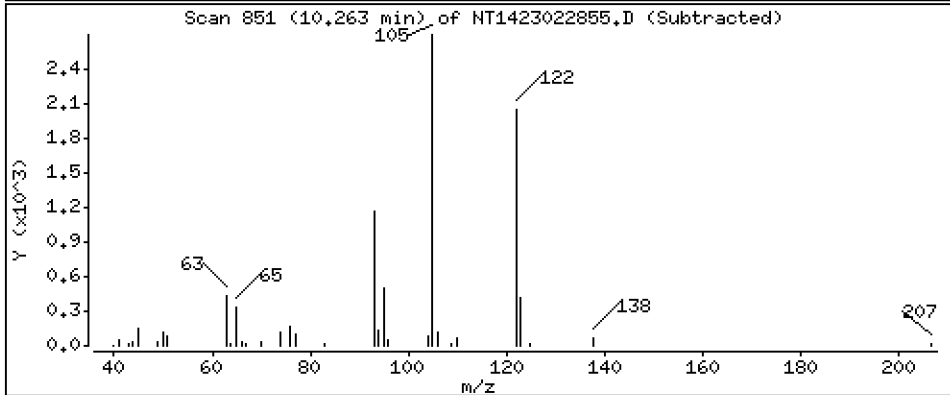
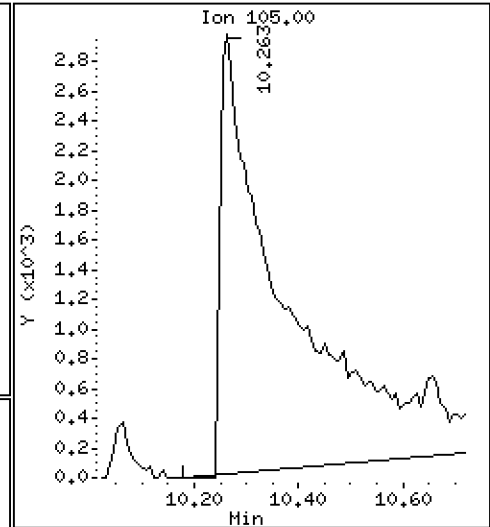
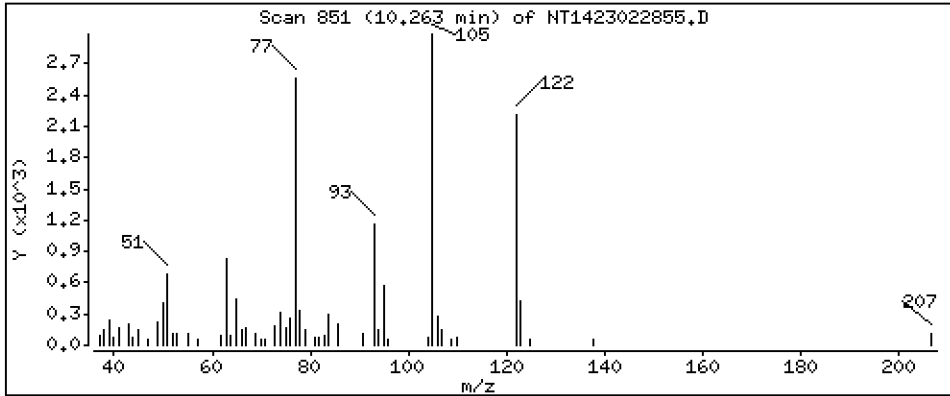
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 26,87 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

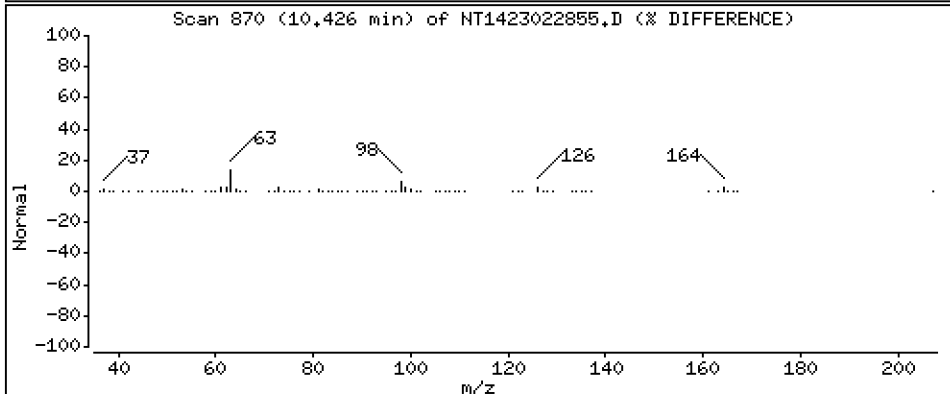
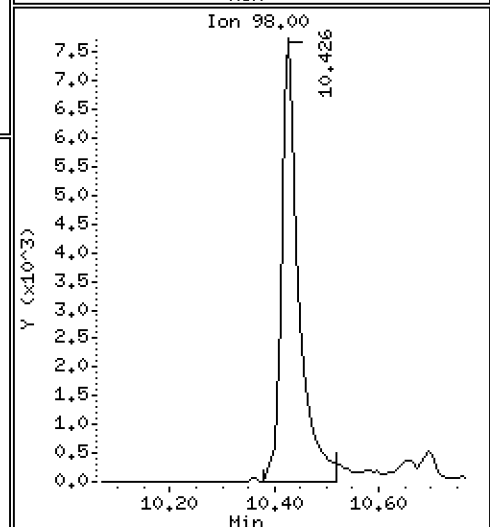
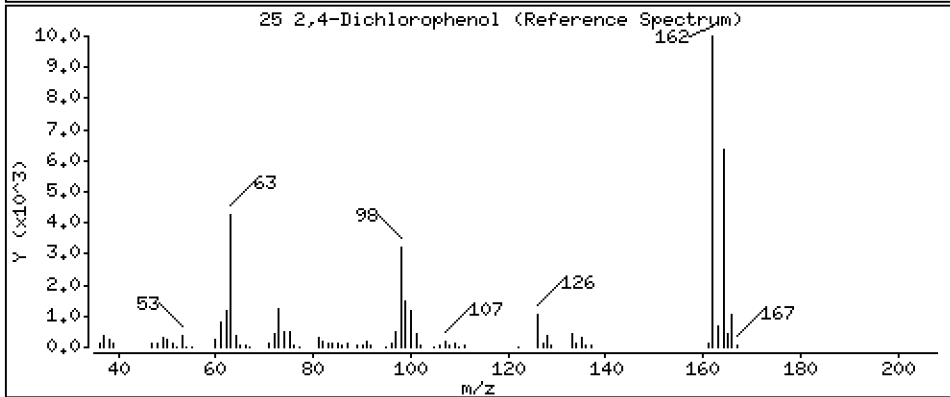
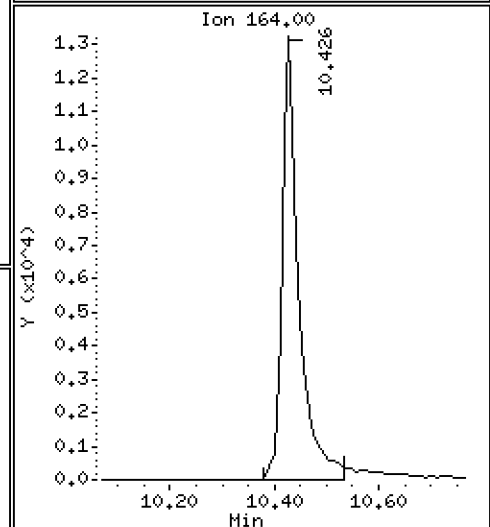
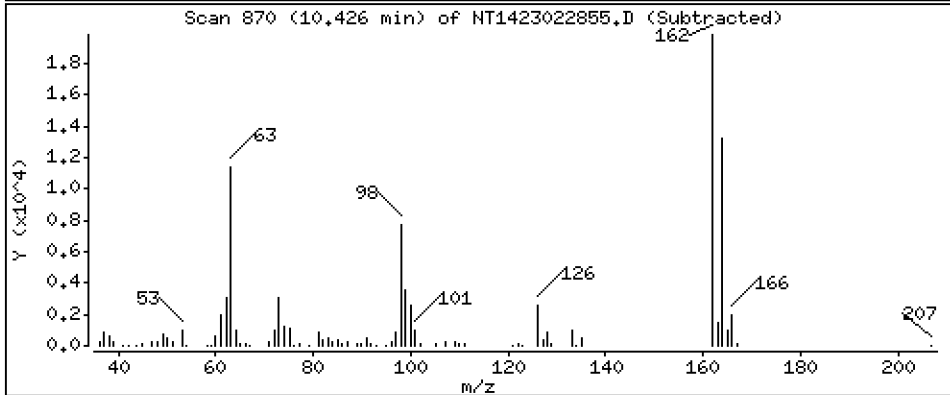
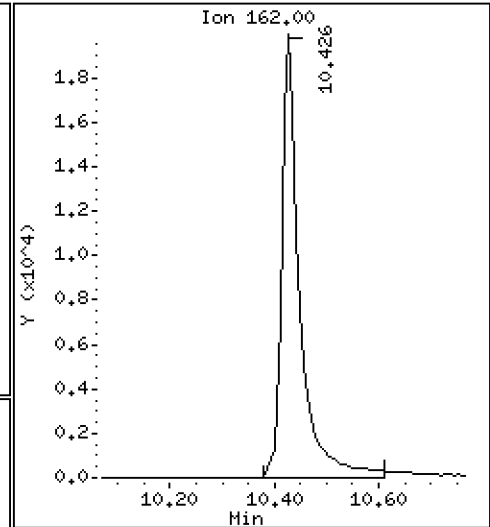
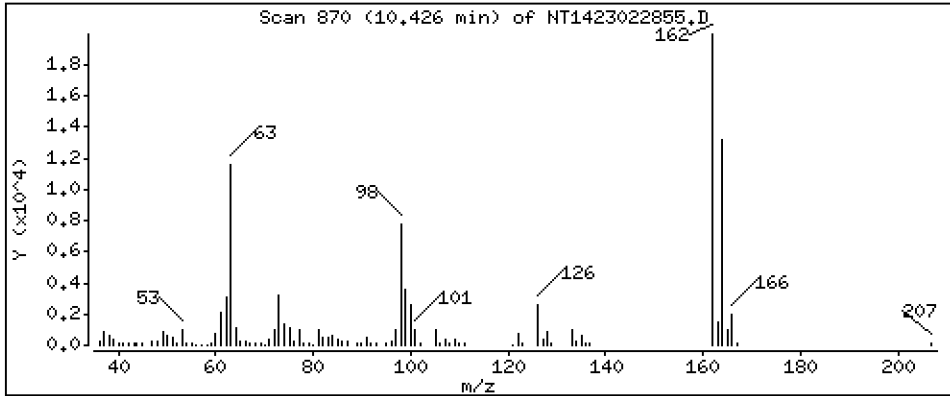
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 15,27 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

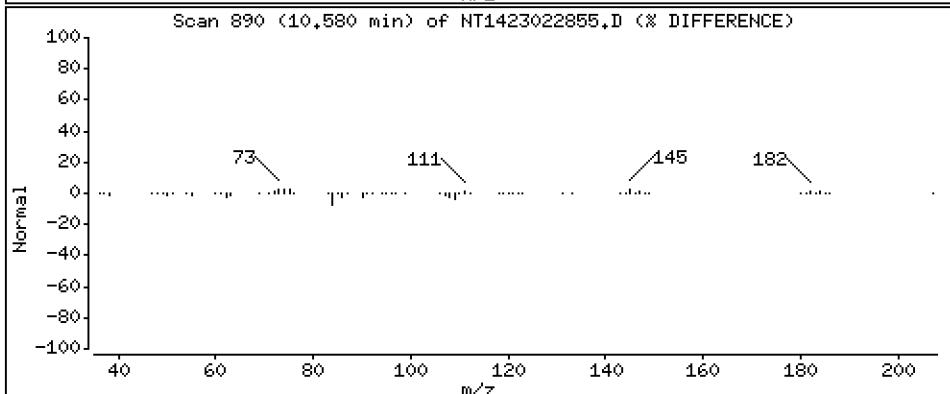
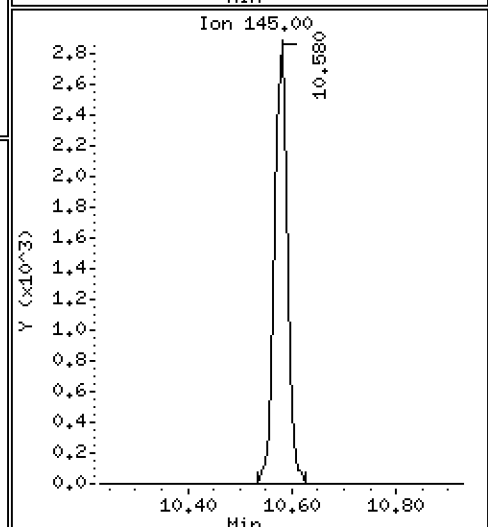
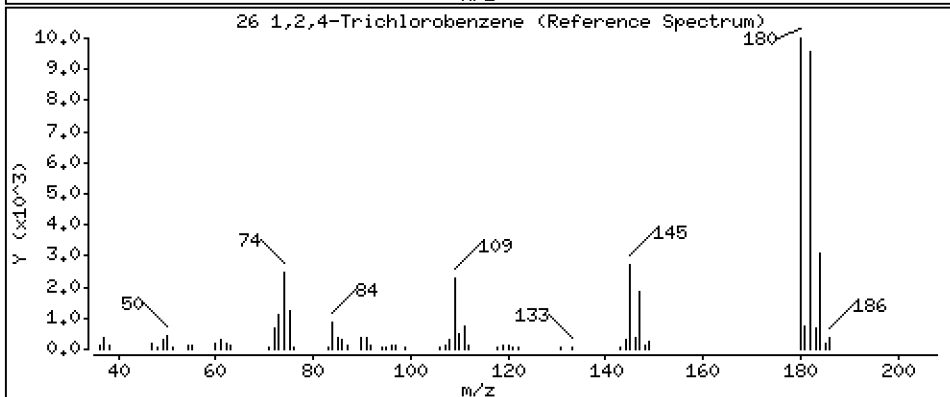
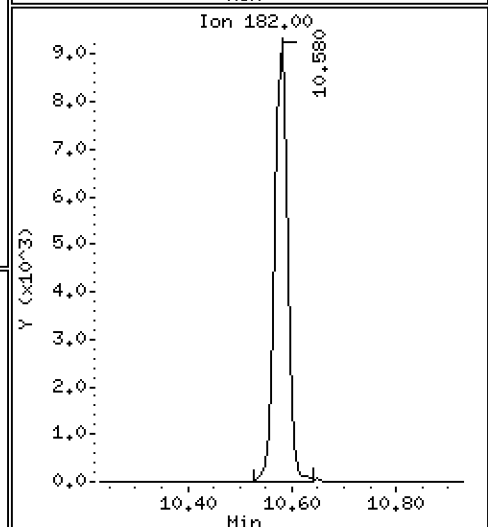
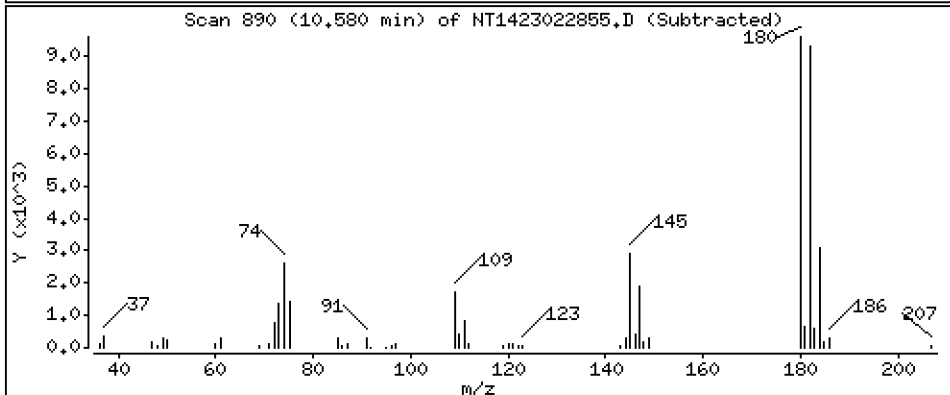
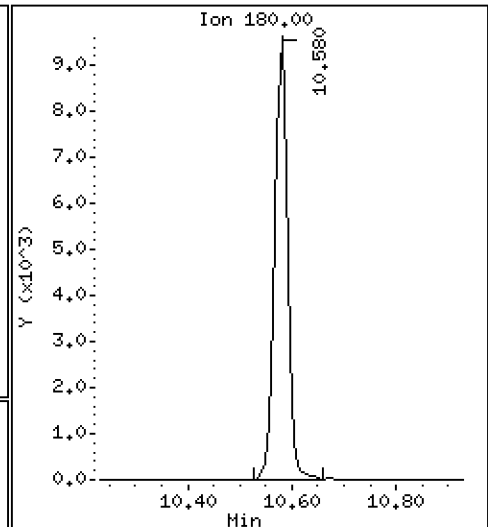
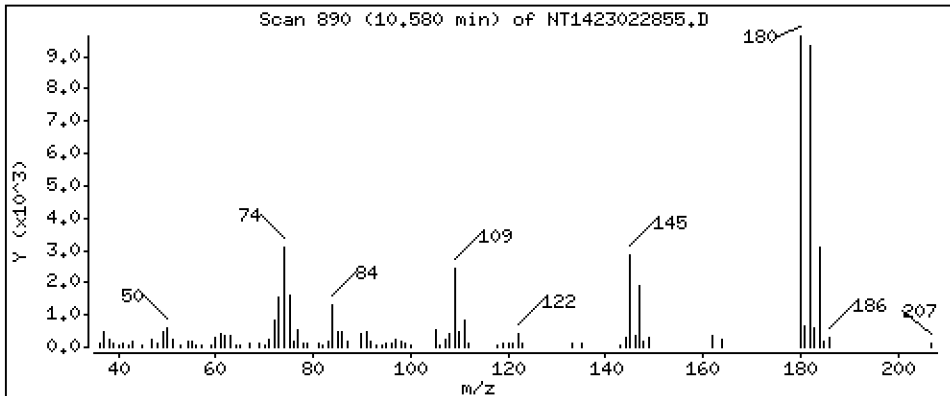
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,148 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

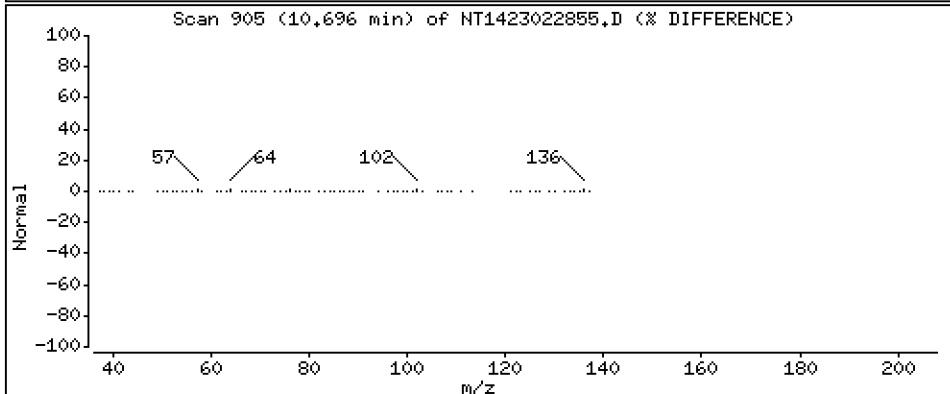
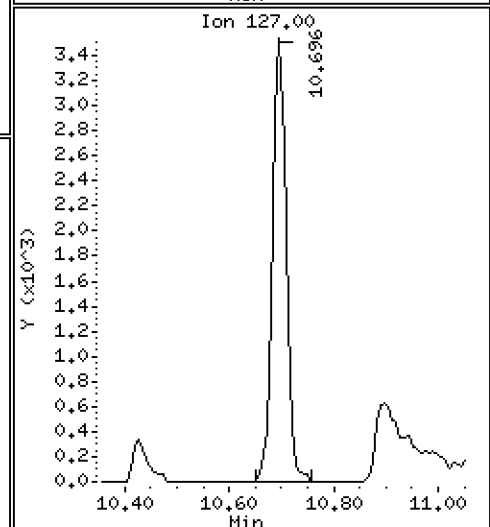
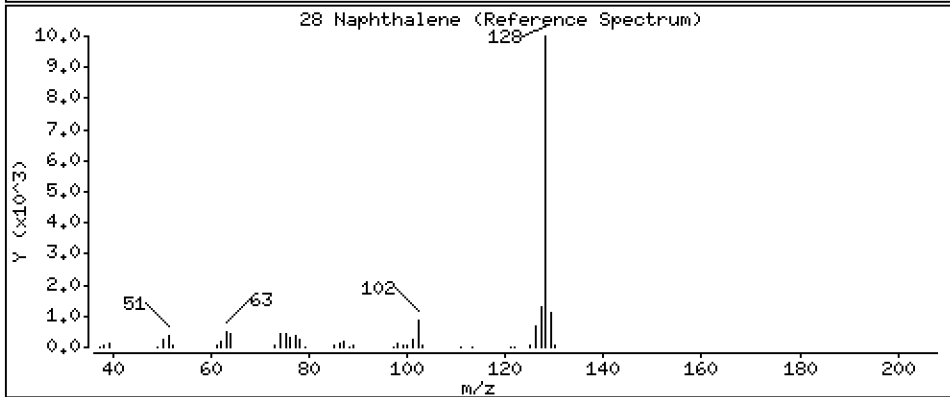
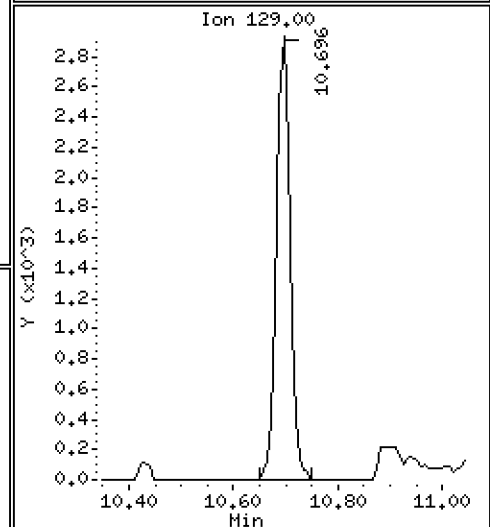
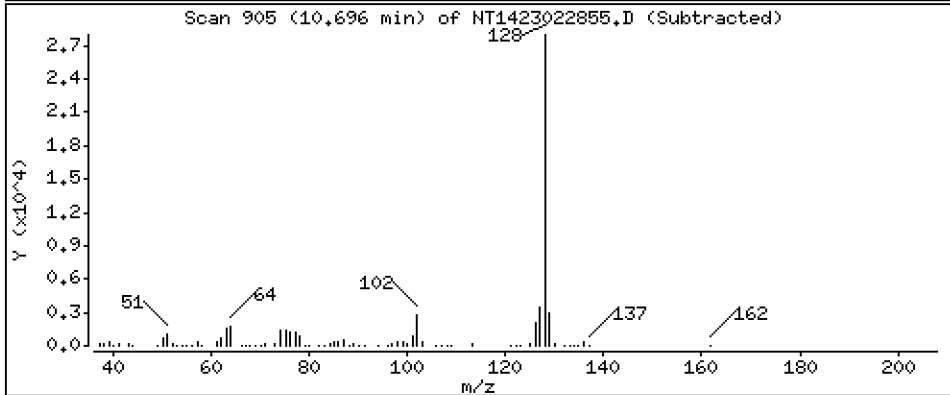
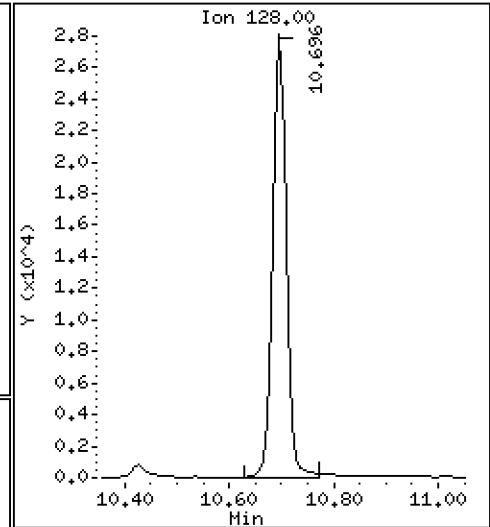
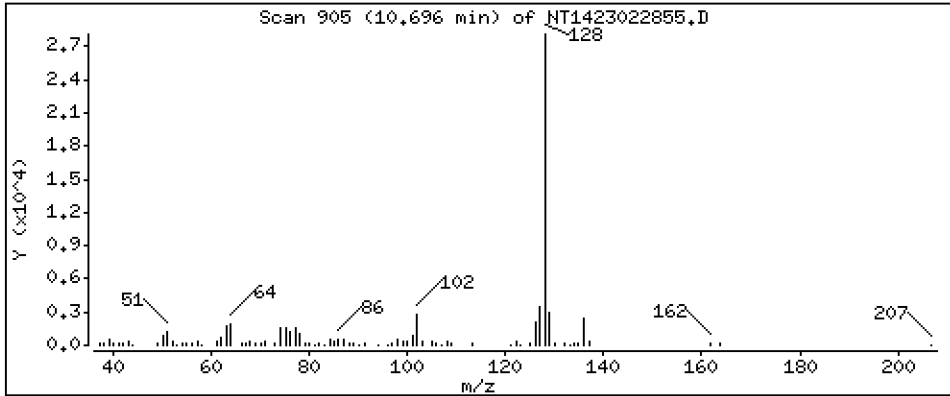
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,646 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

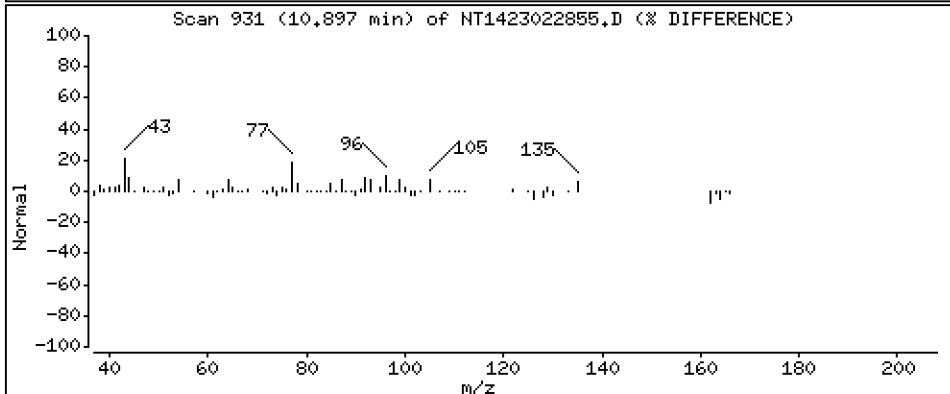
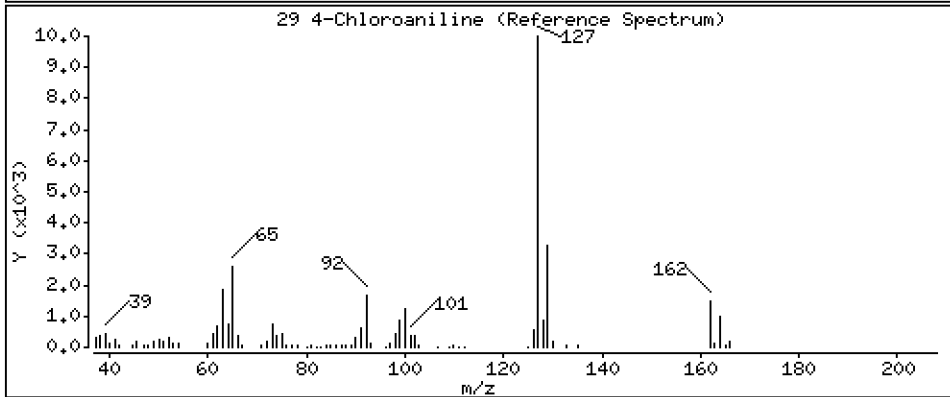
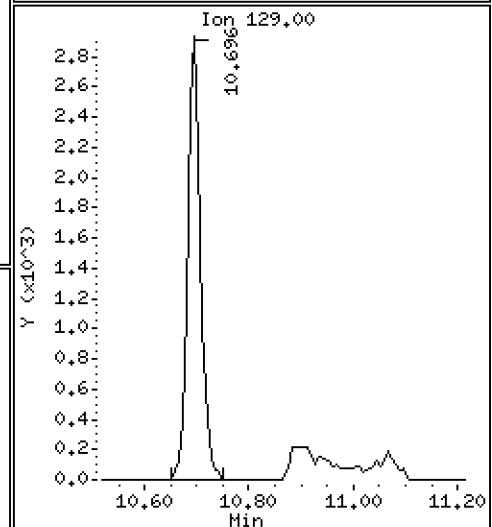
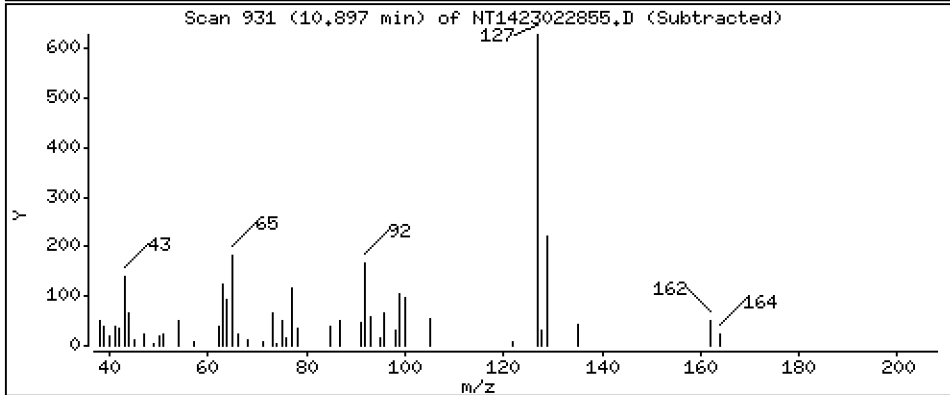
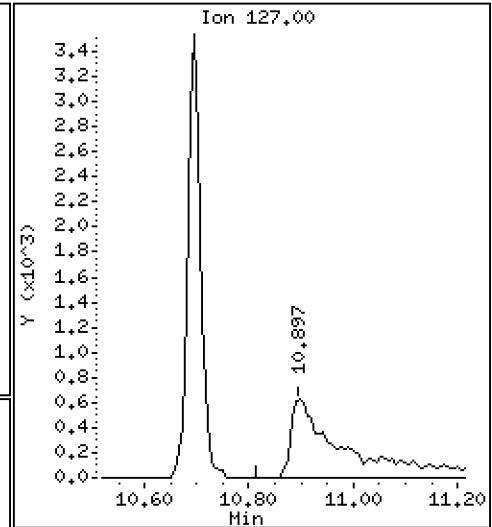
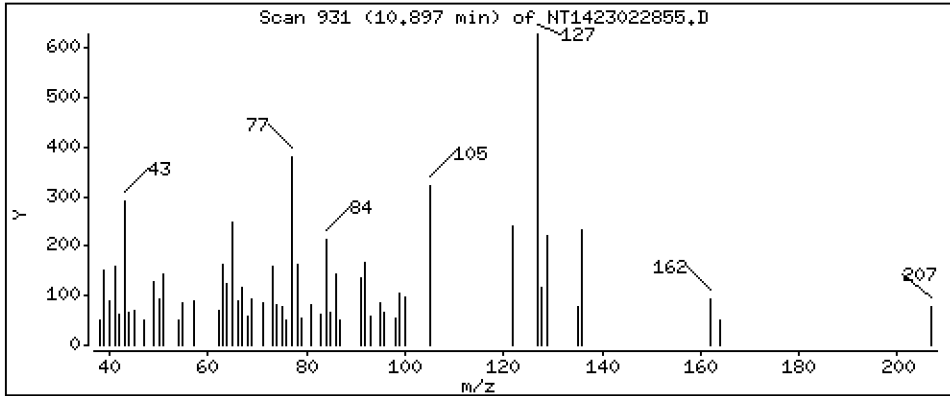
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 1,031 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

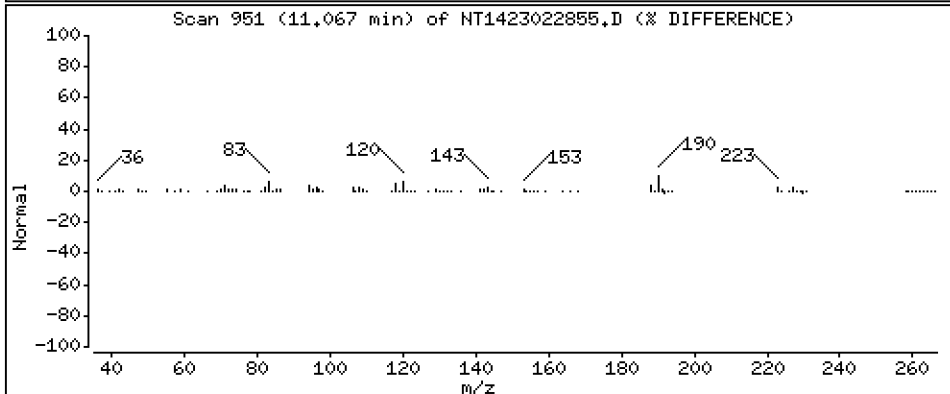
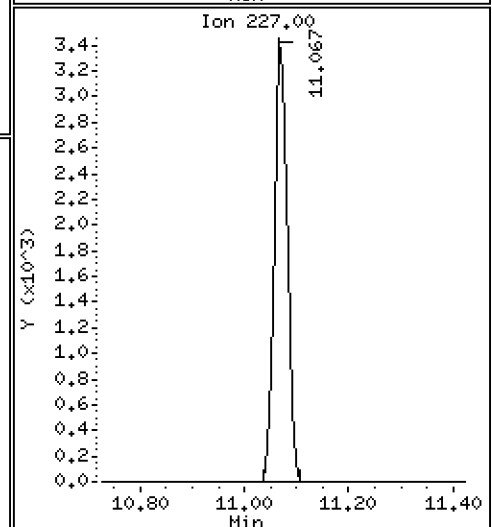
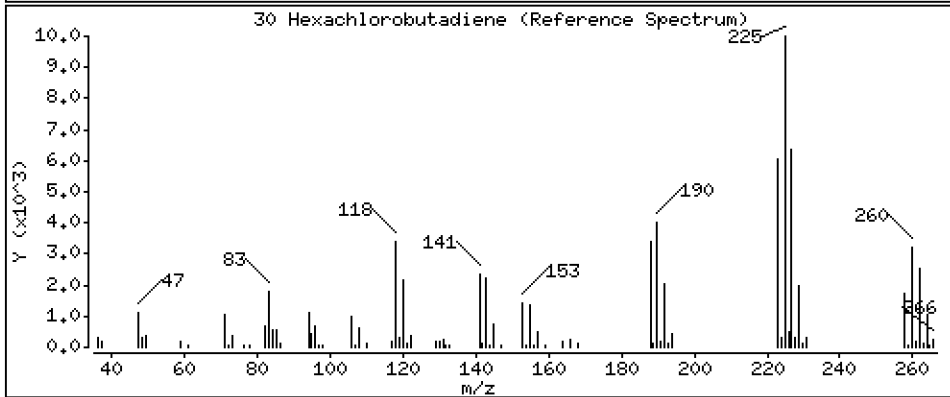
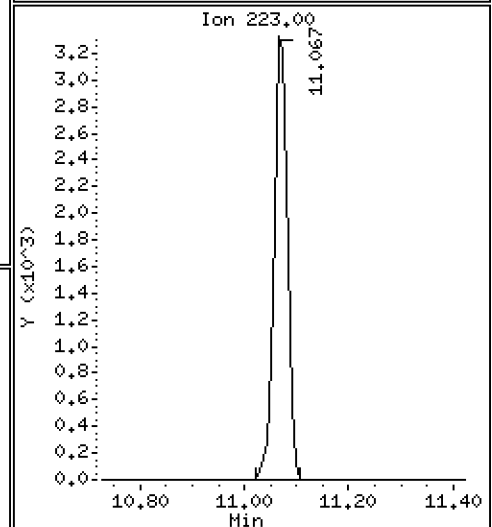
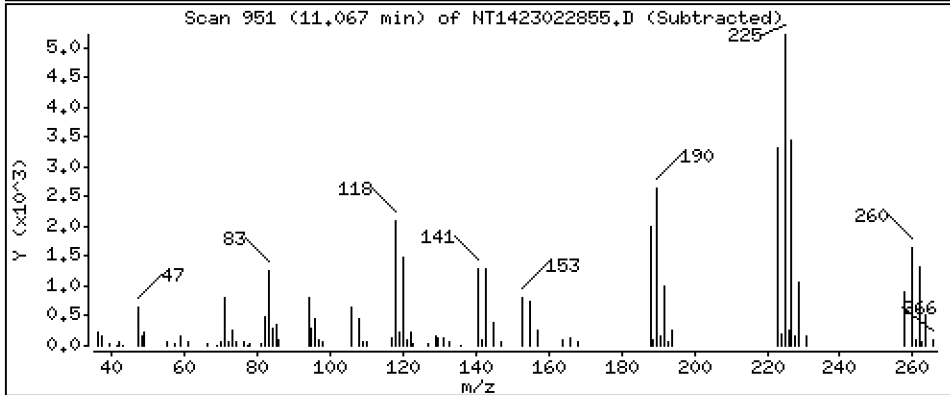
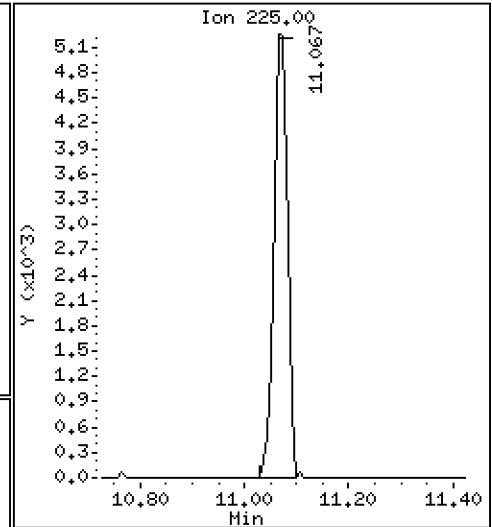
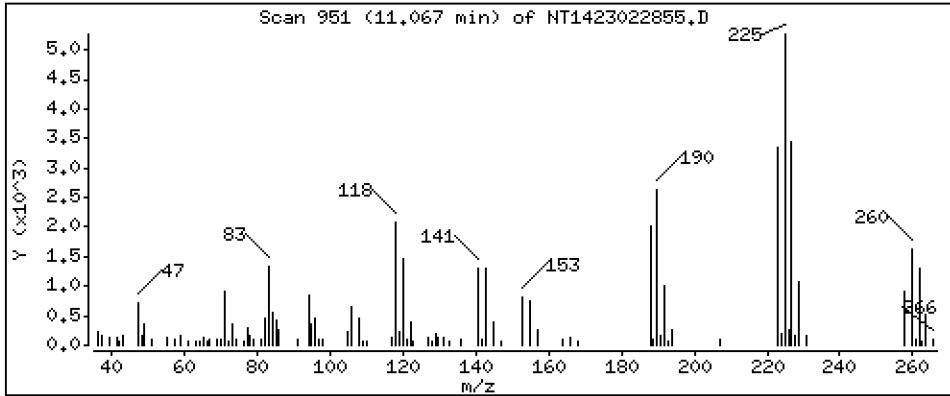
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 3,955 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

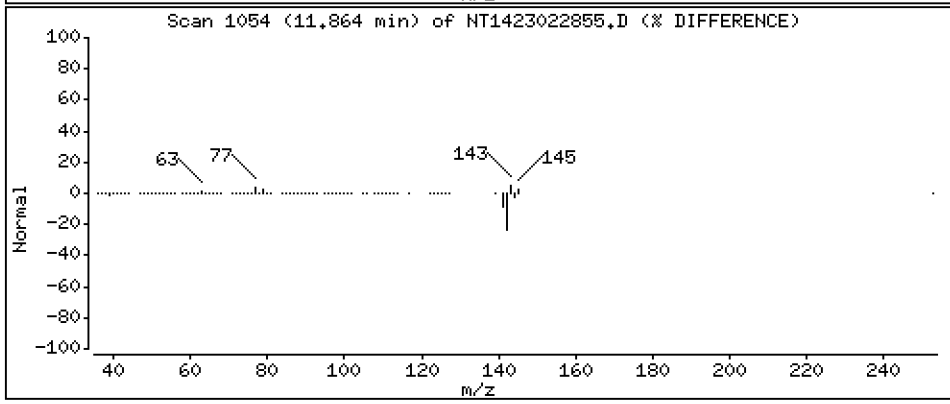
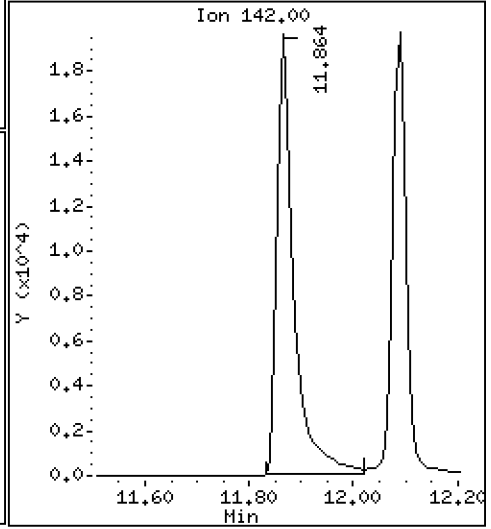
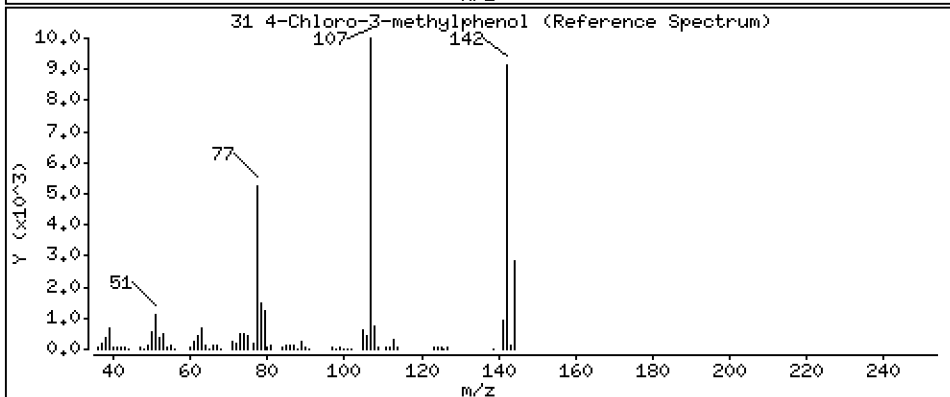
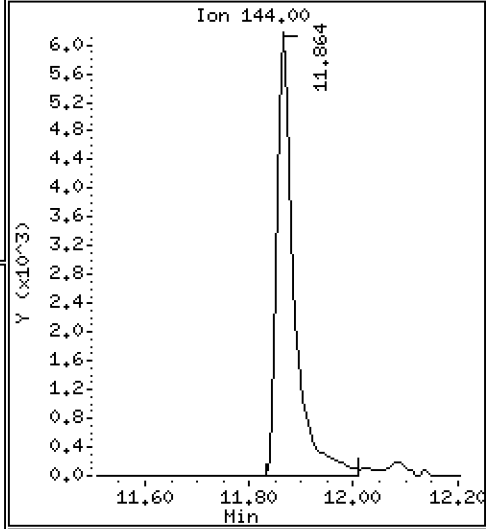
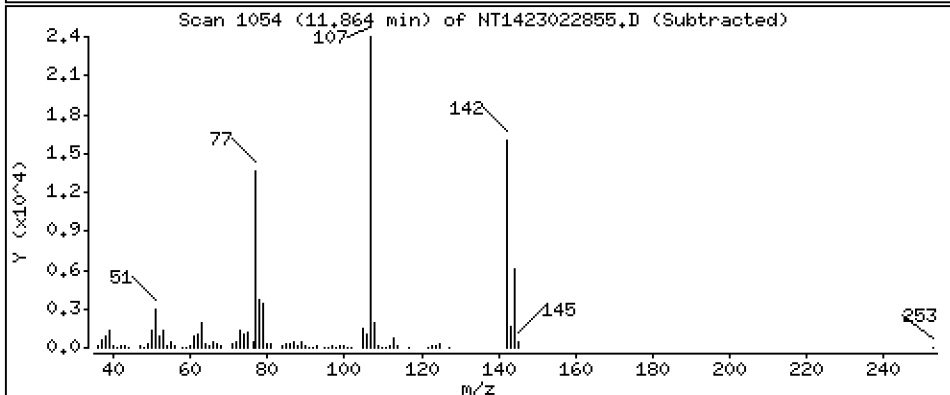
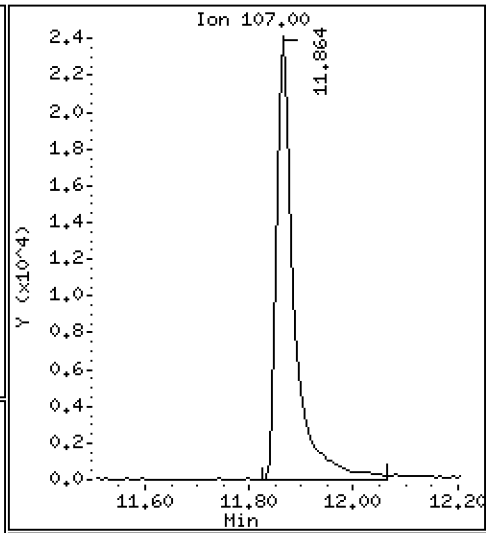
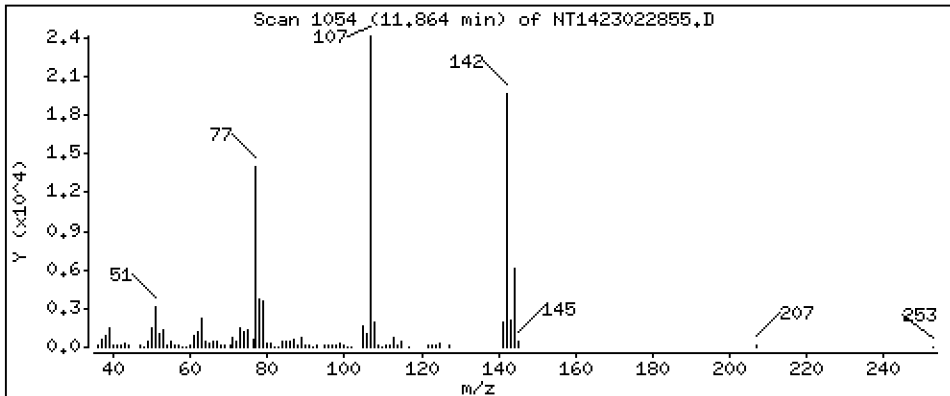
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 18,66 ug/mL





Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

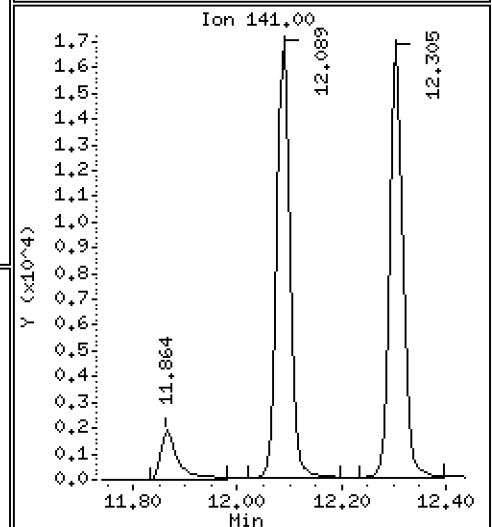
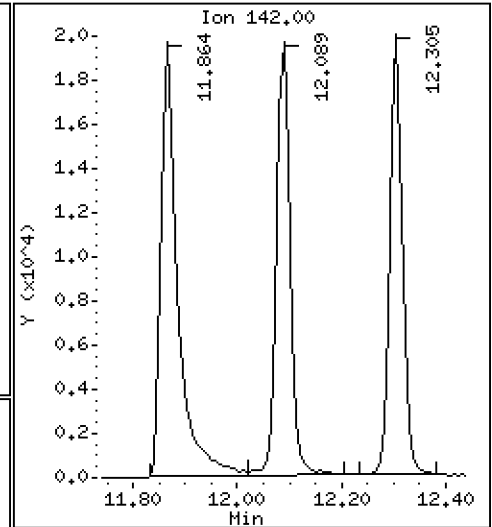
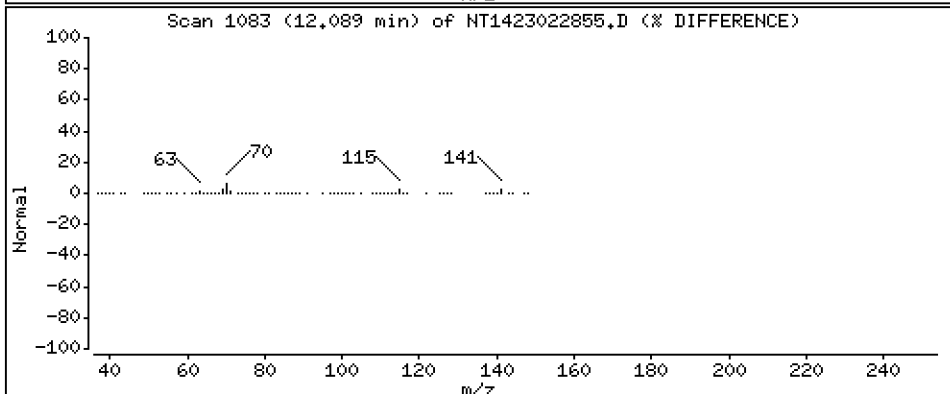
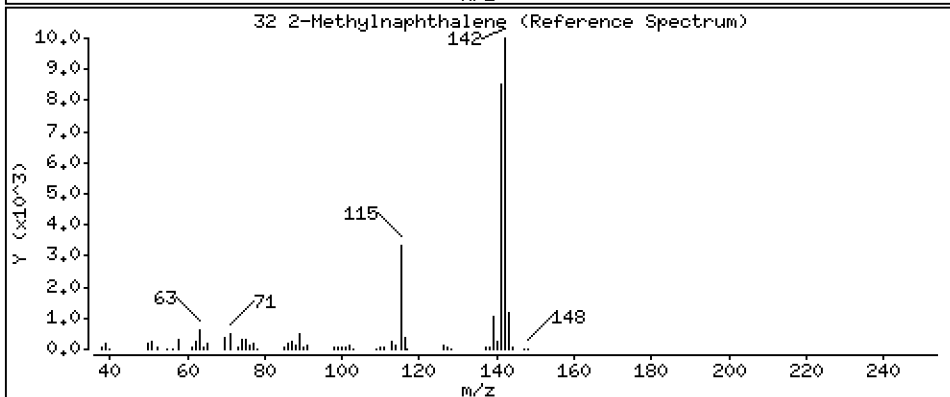
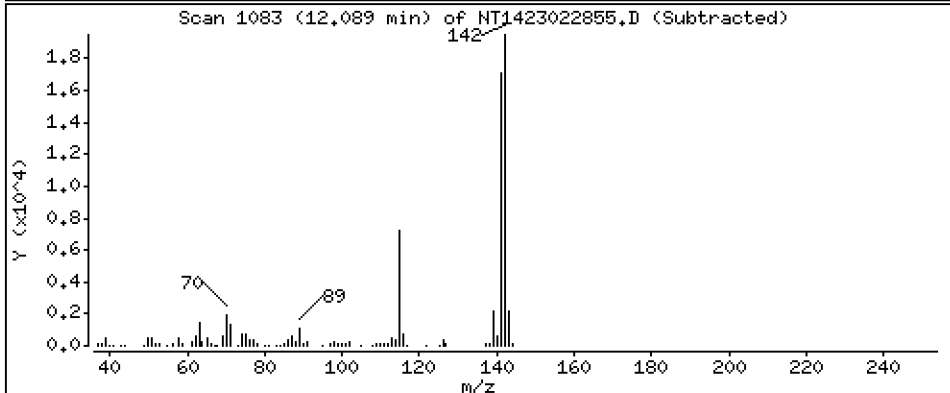
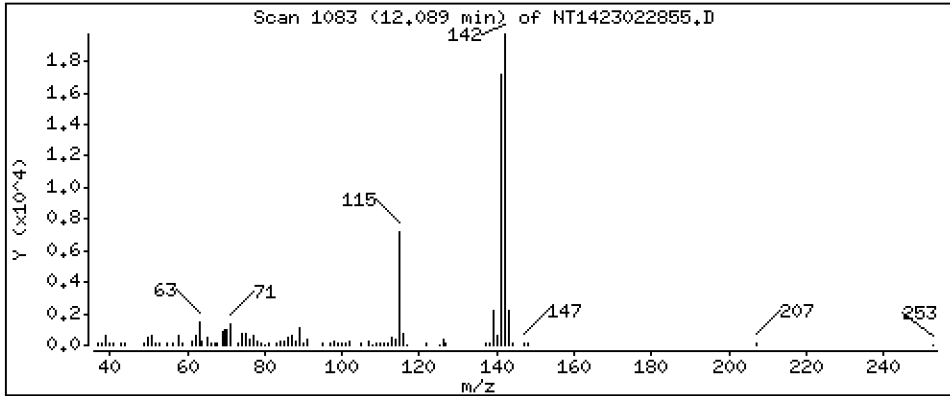
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,445 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

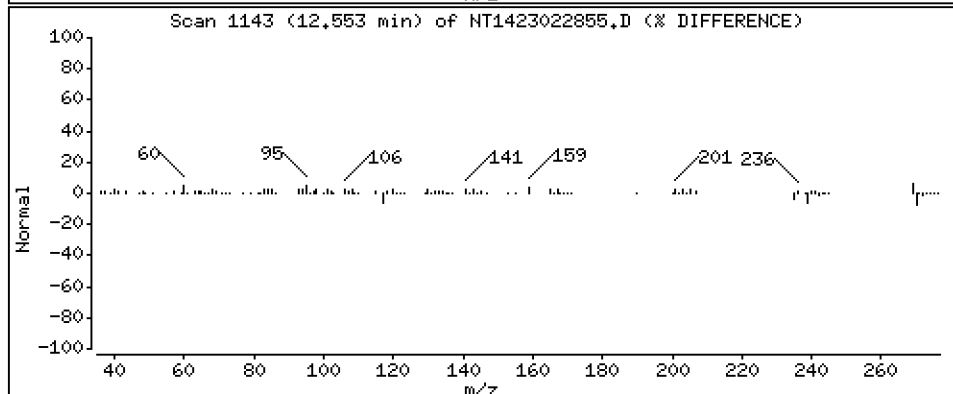
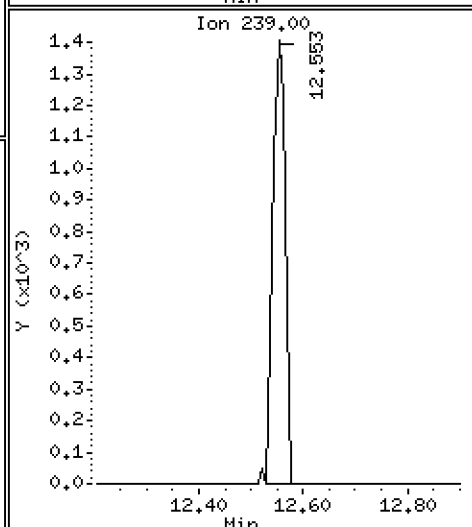
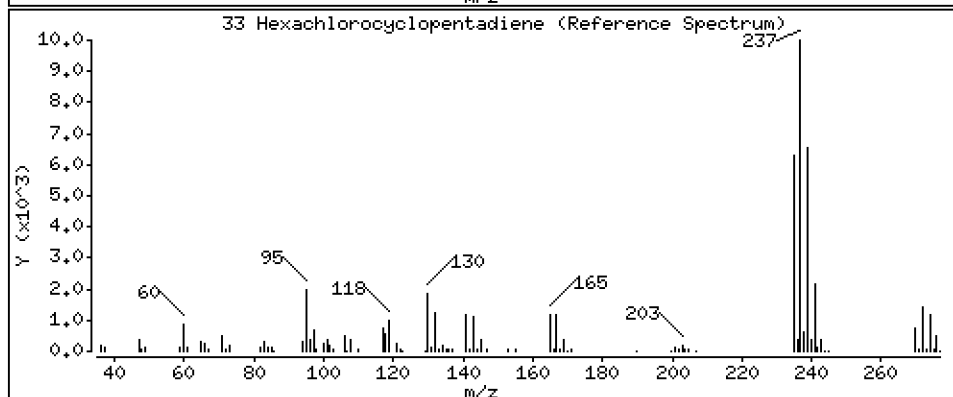
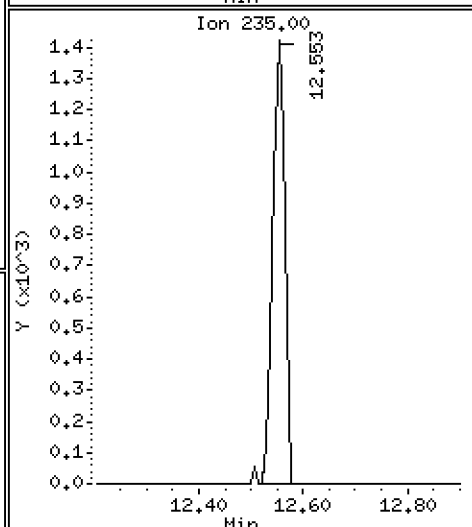
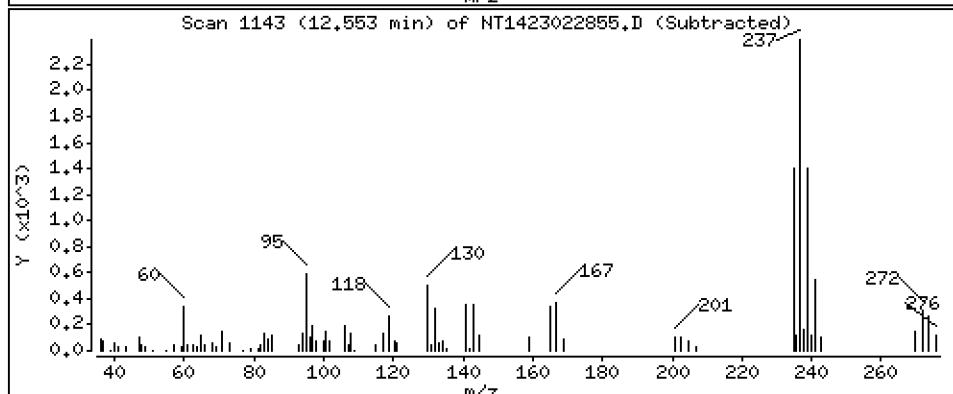
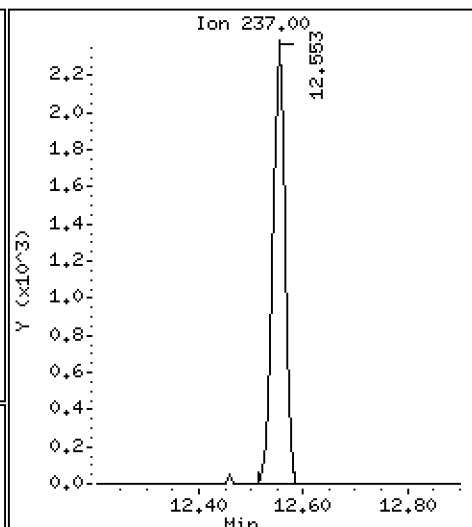
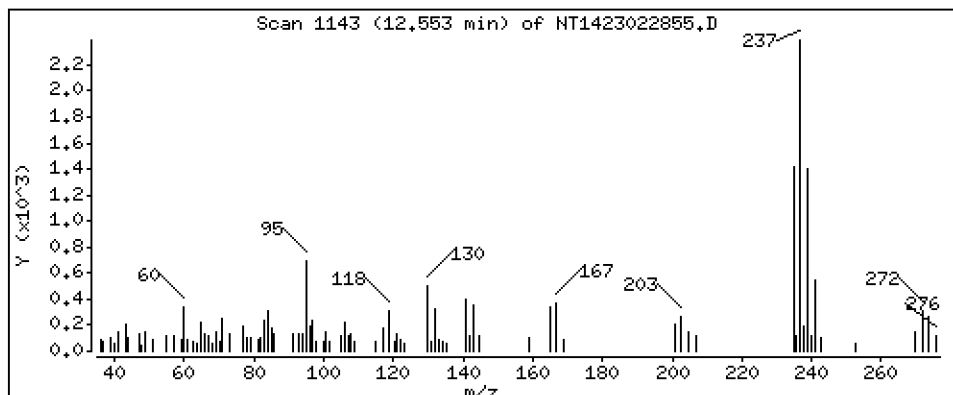
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 1,554 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

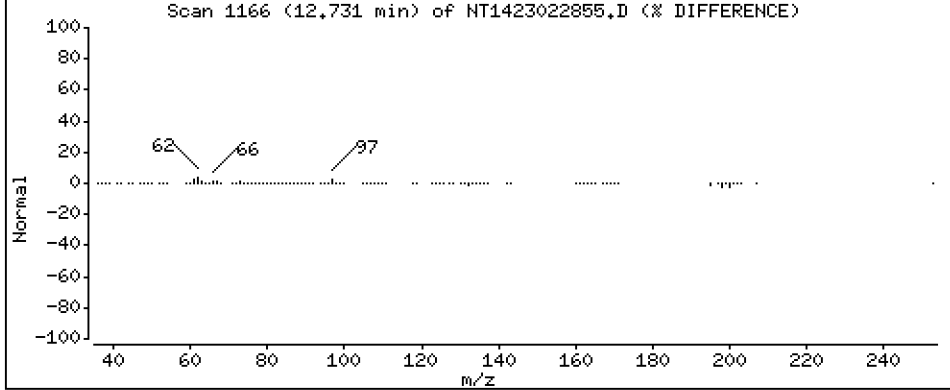
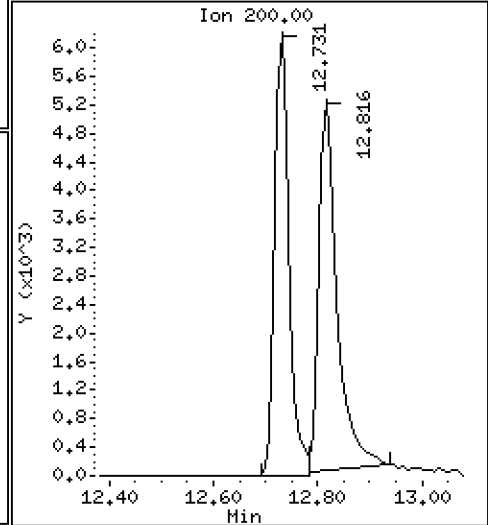
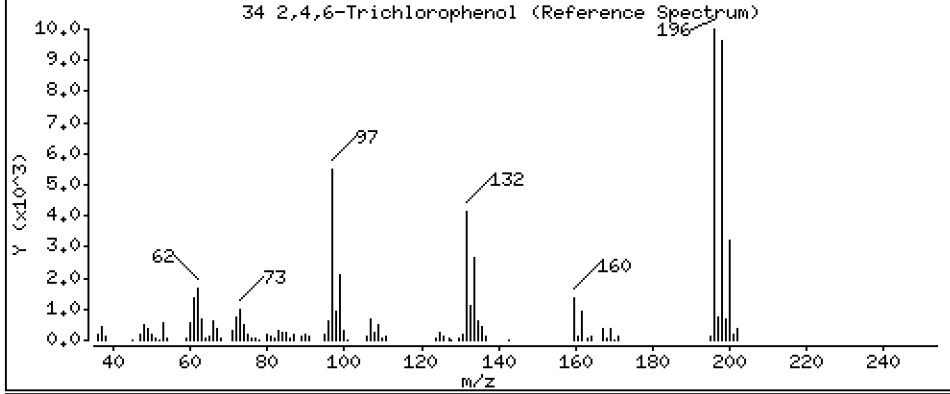
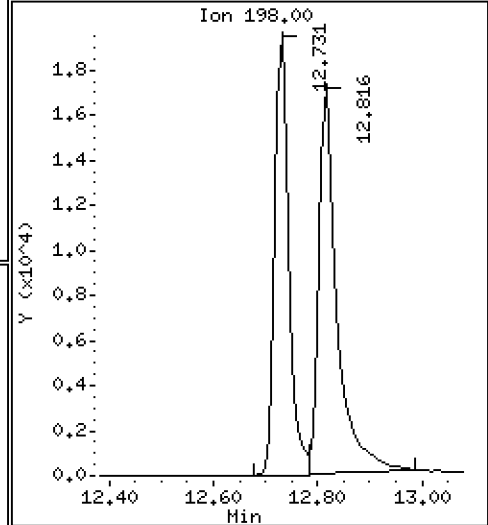
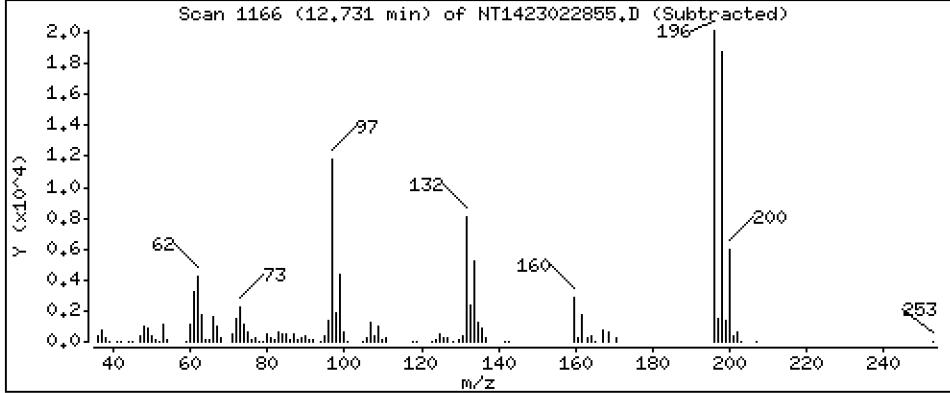
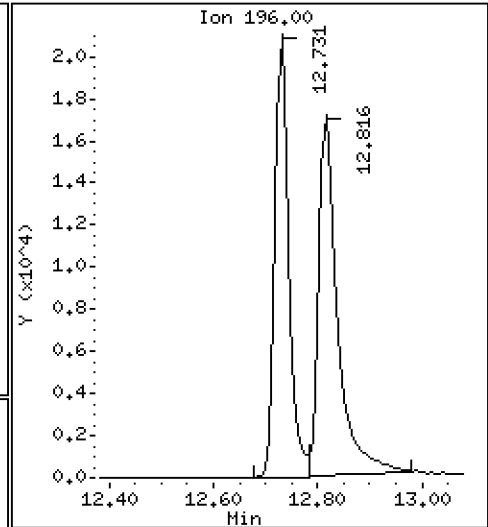
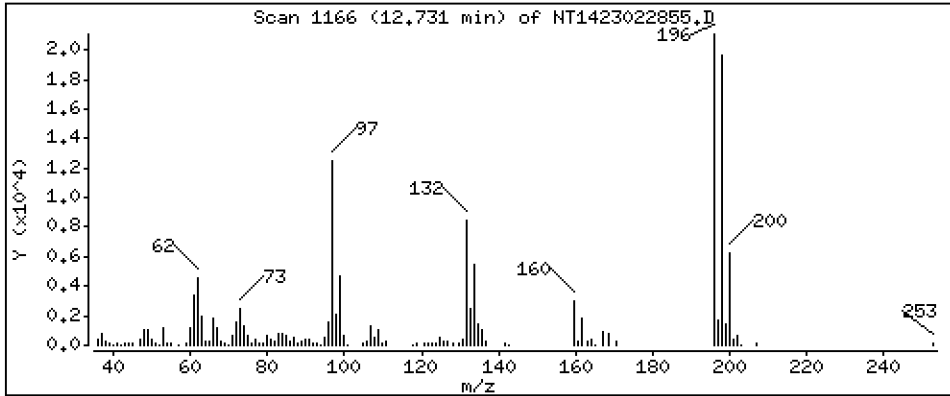
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 17,29 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

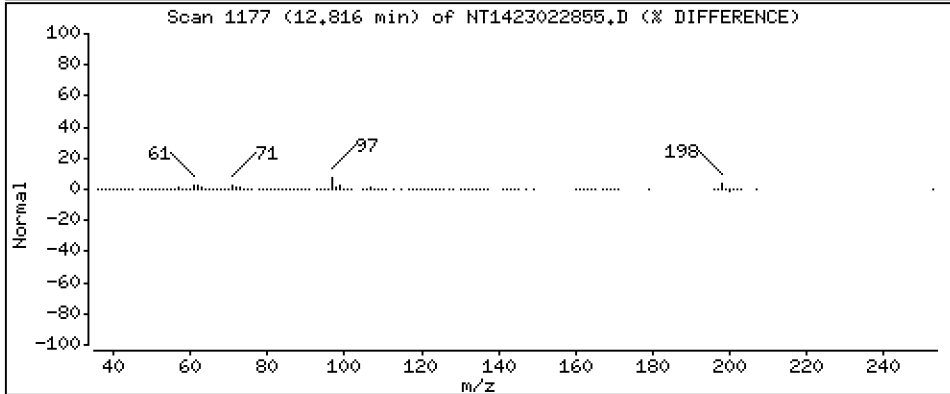
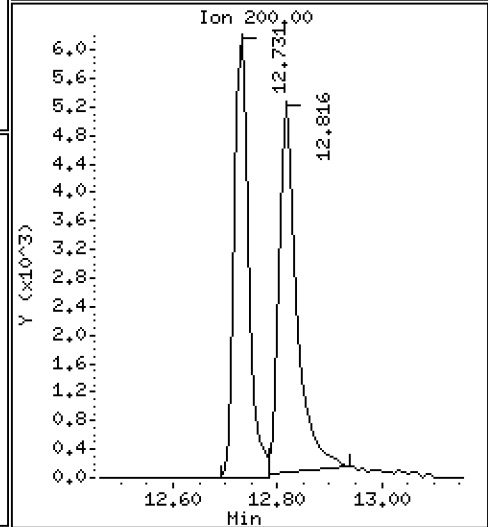
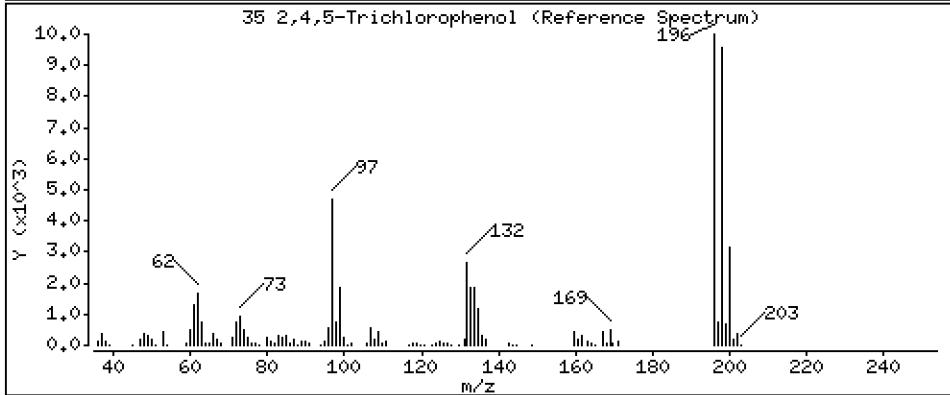
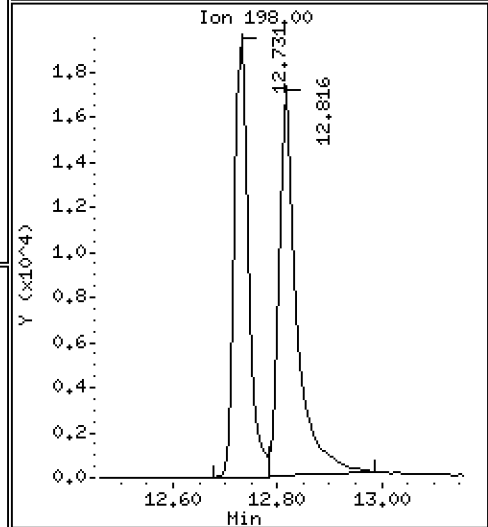
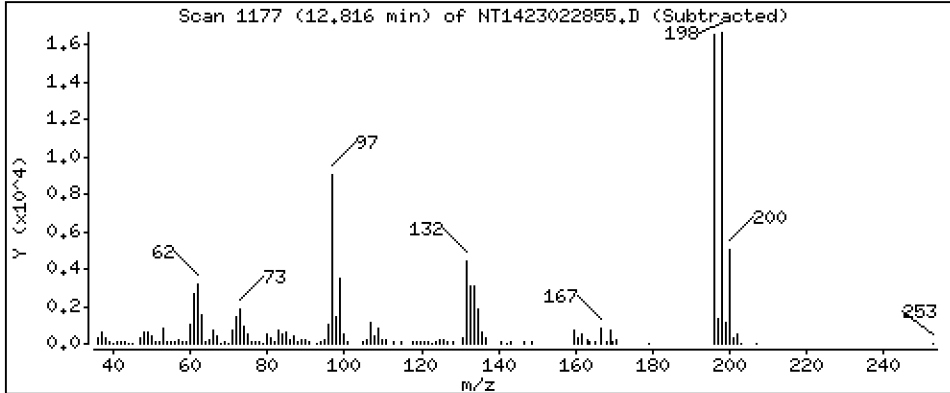
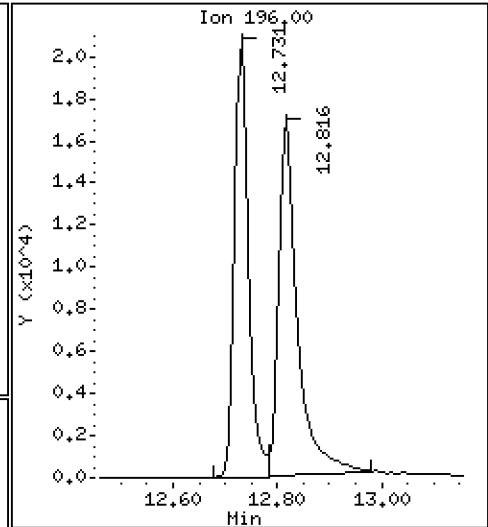
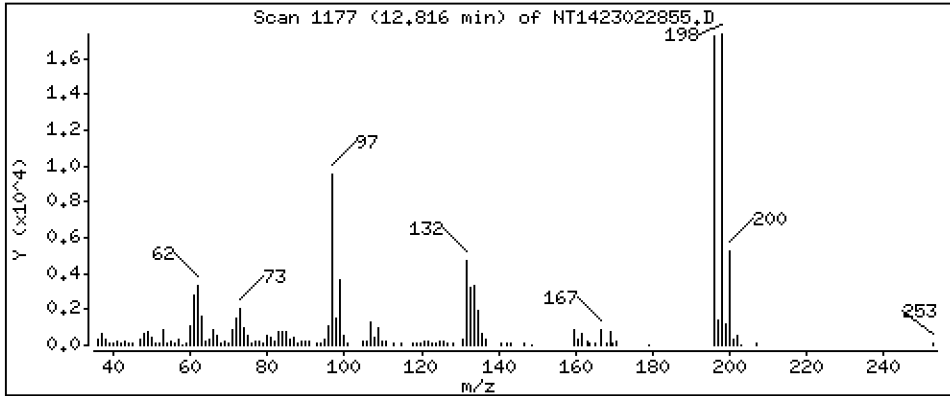
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 17,68 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

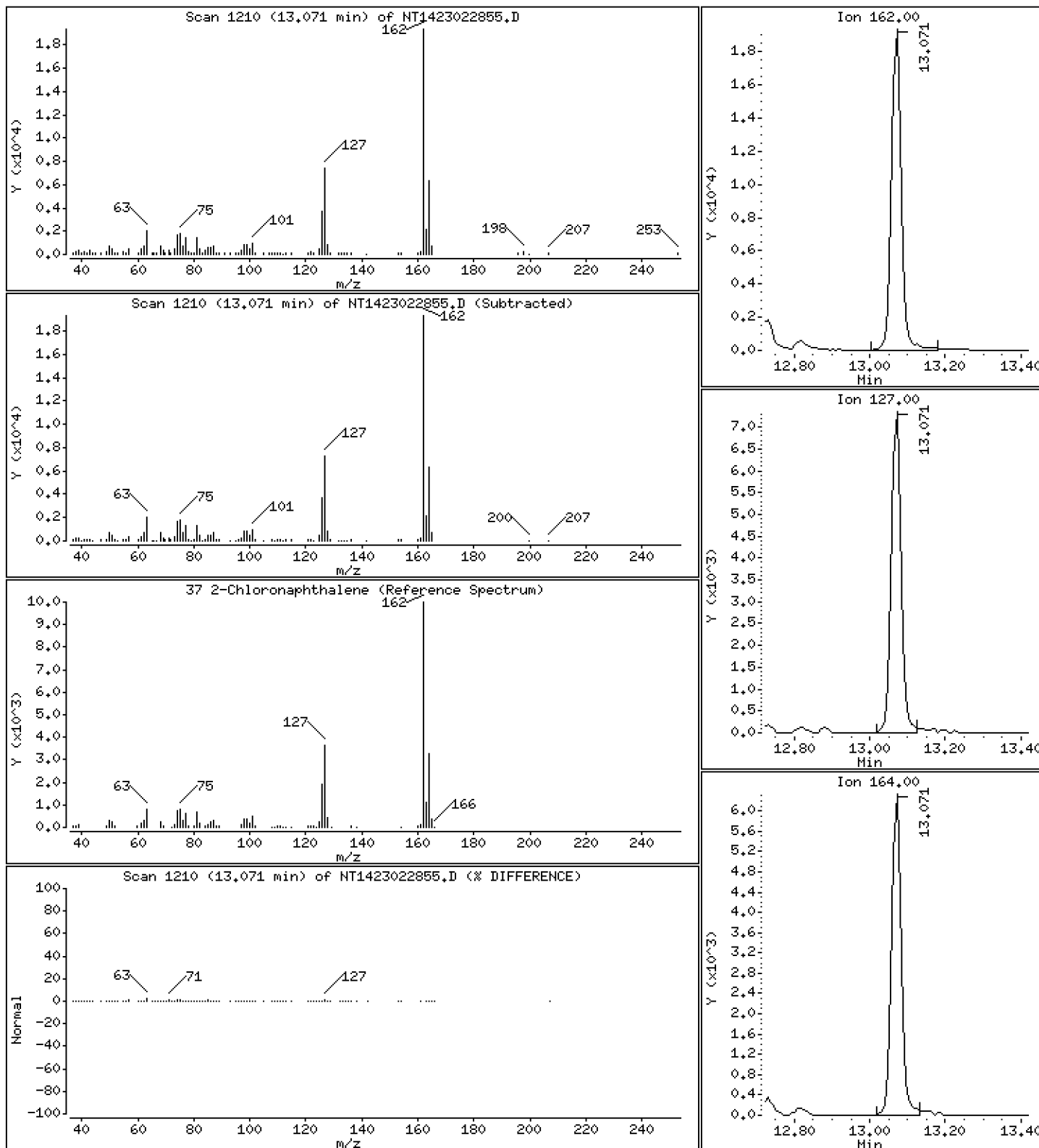
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,785 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

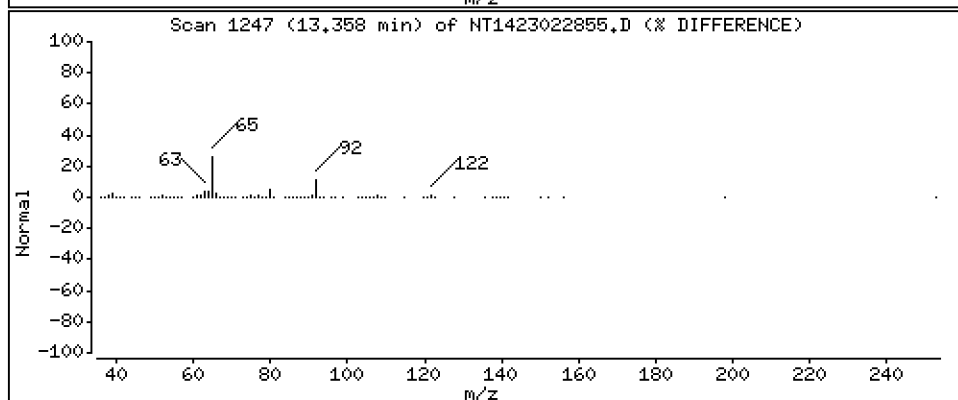
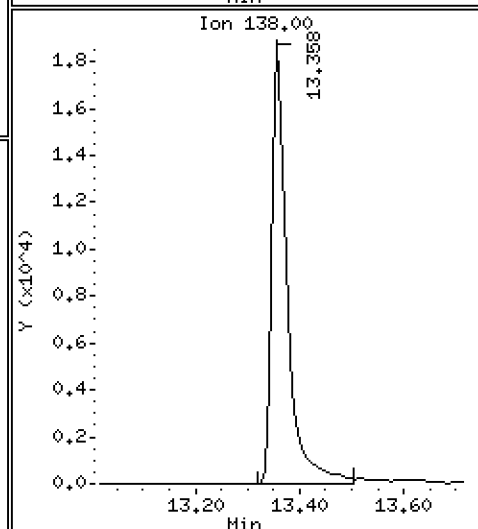
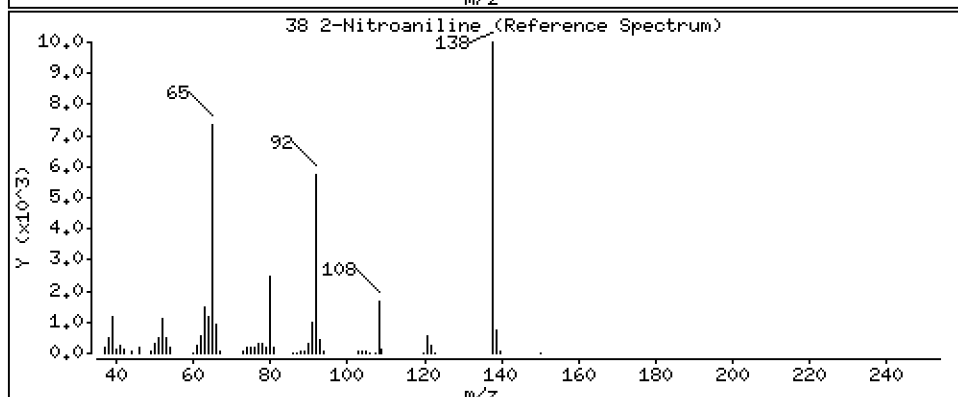
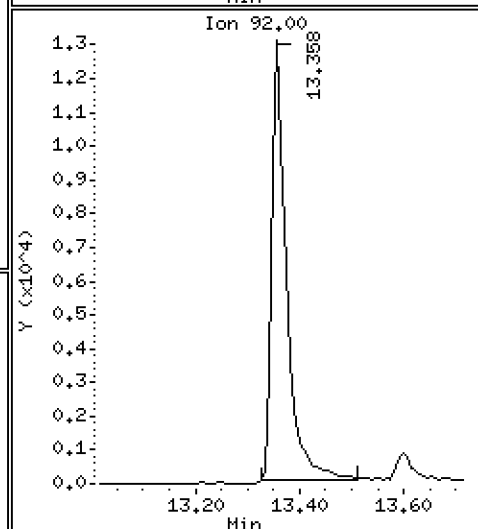
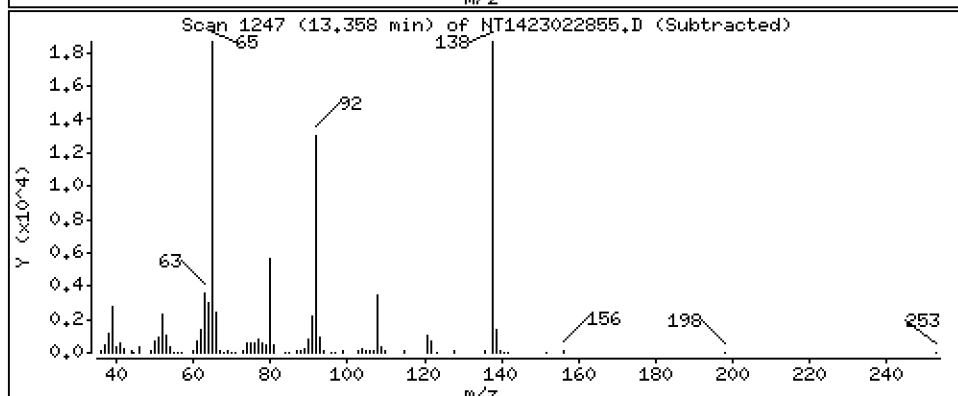
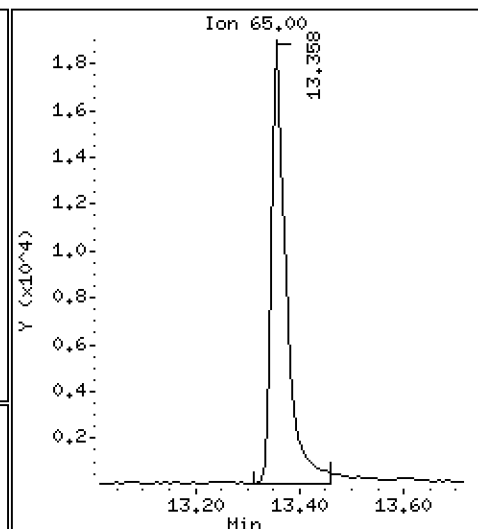
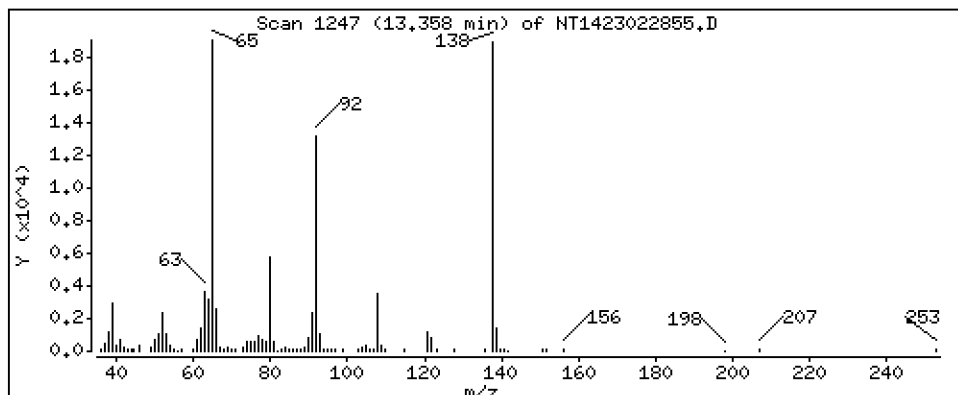
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 20,13 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

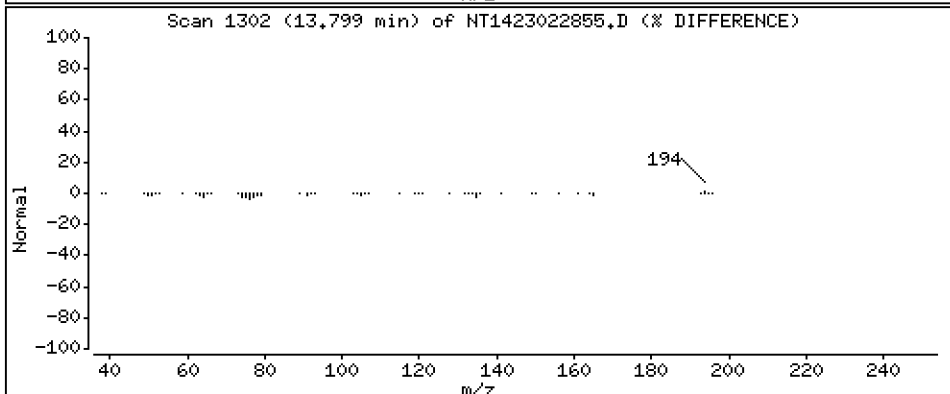
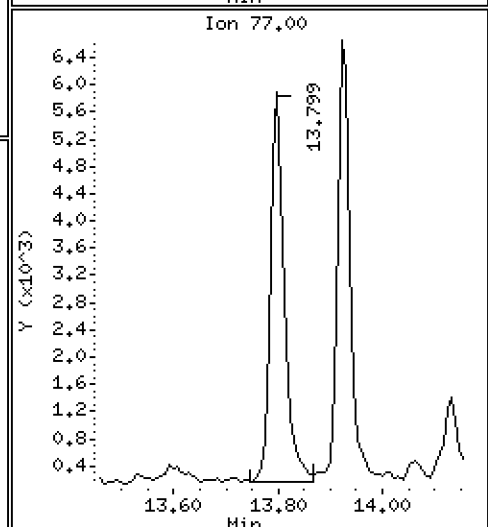
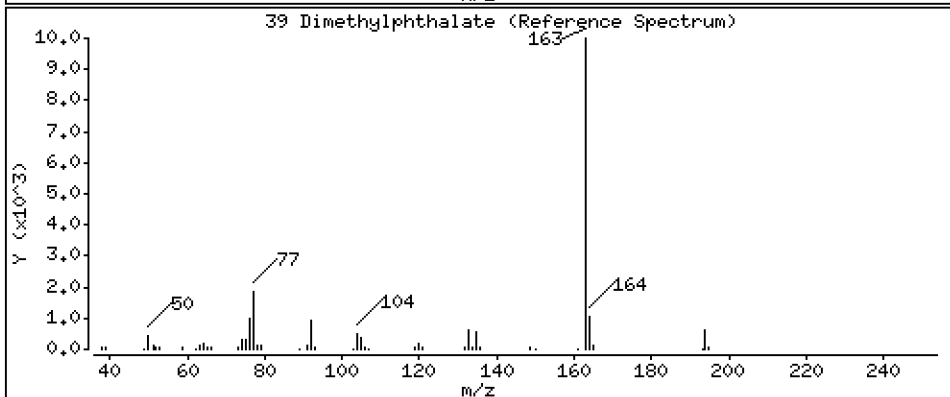
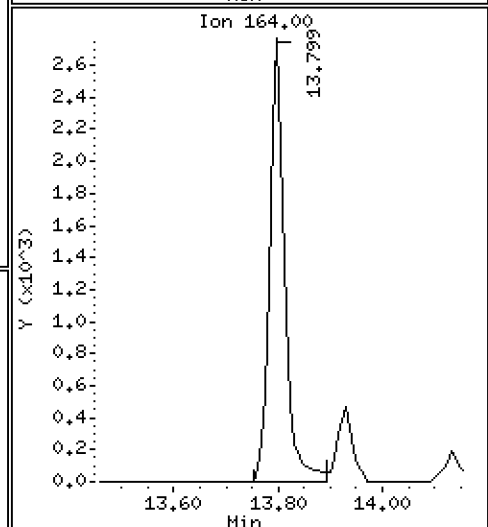
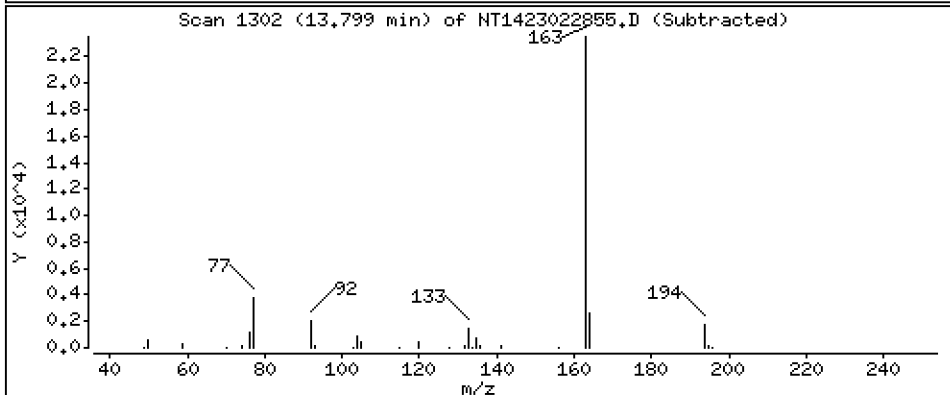
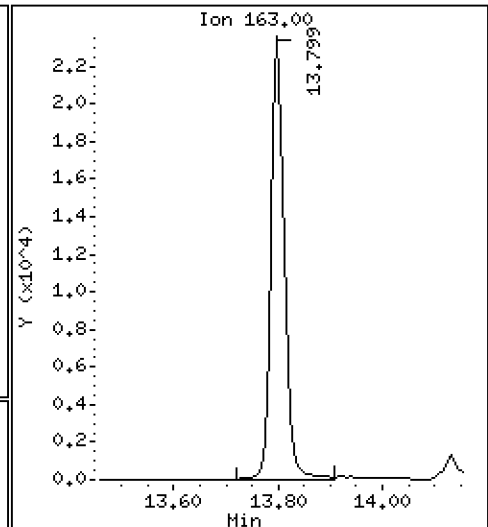
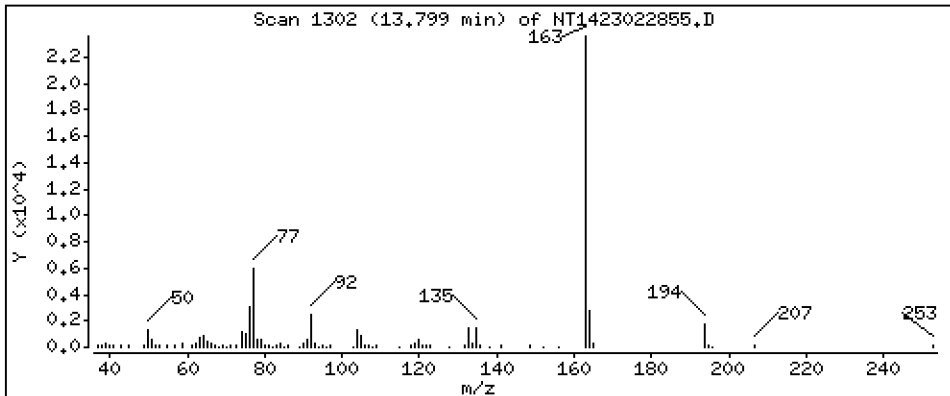
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,900 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

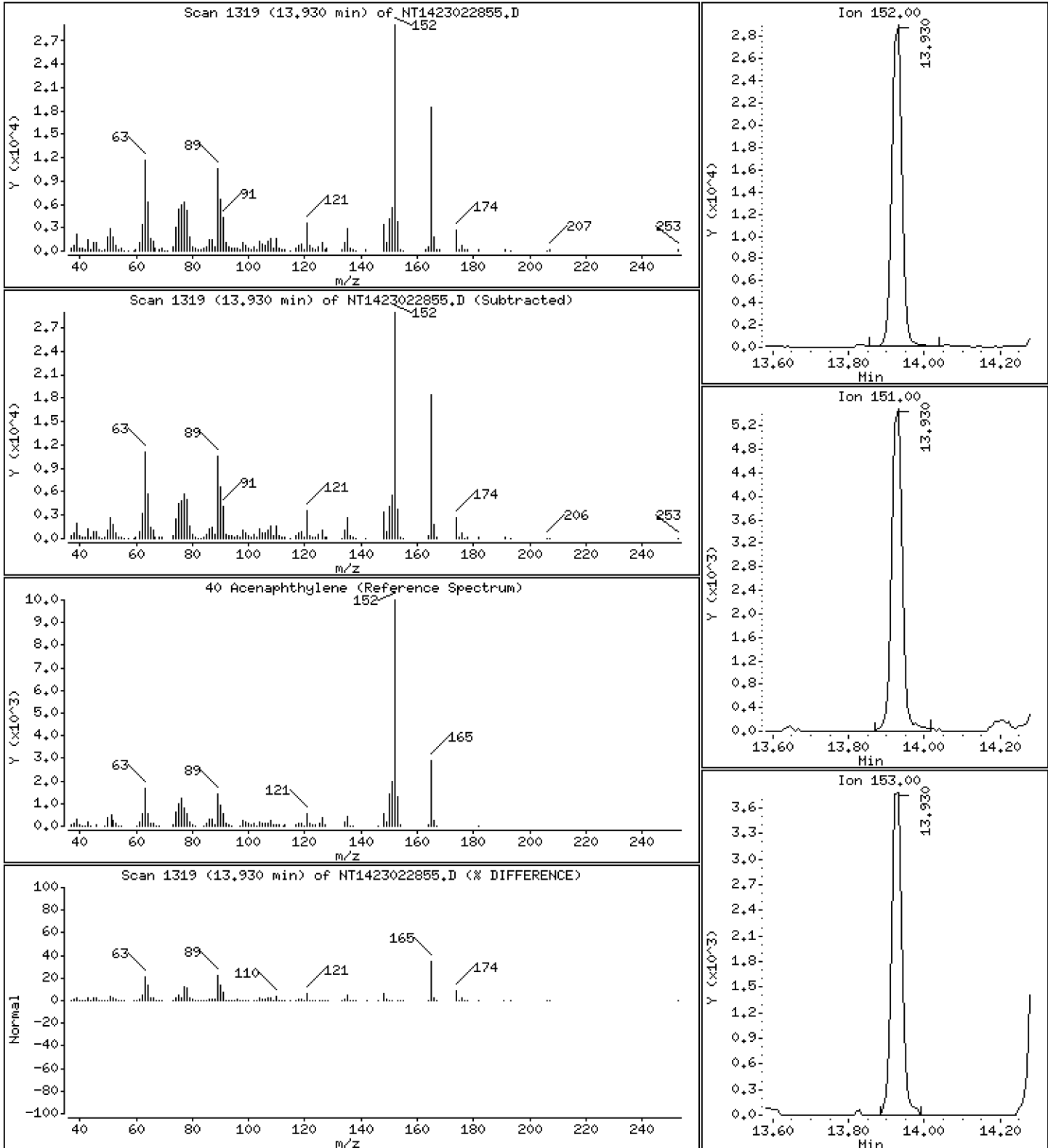
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 5,007 ug/mL





Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

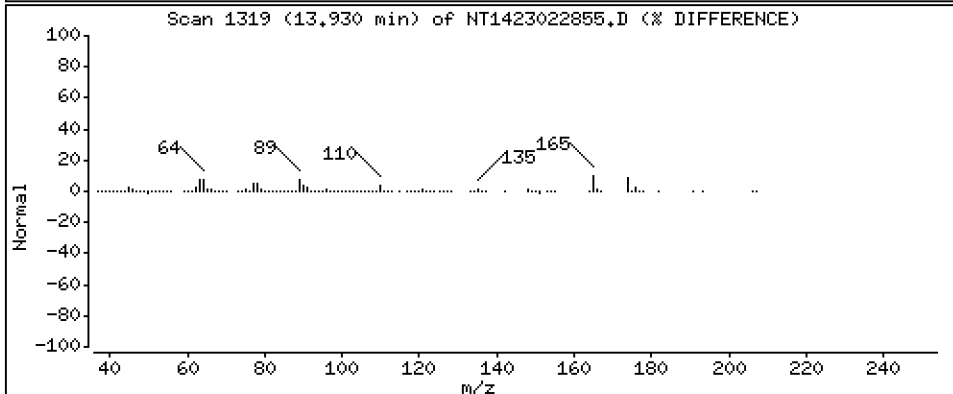
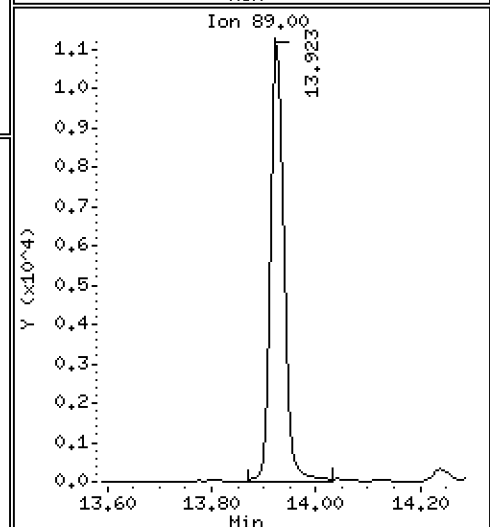
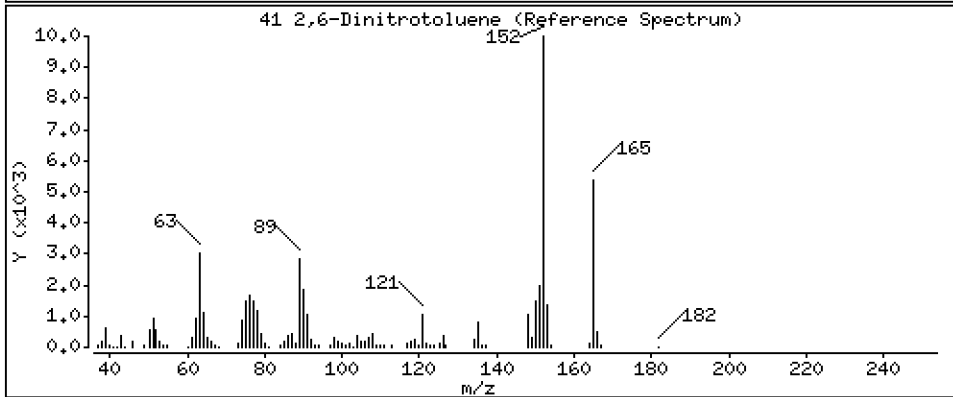
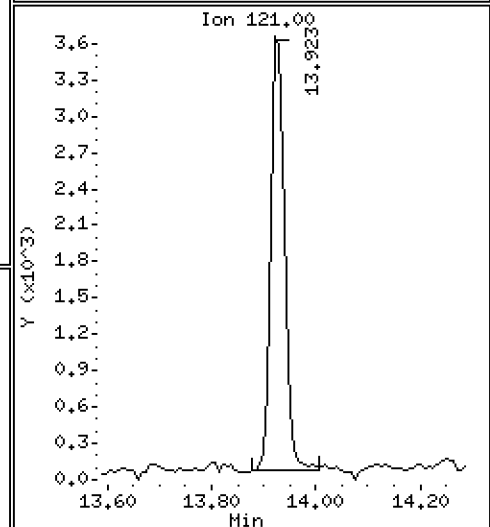
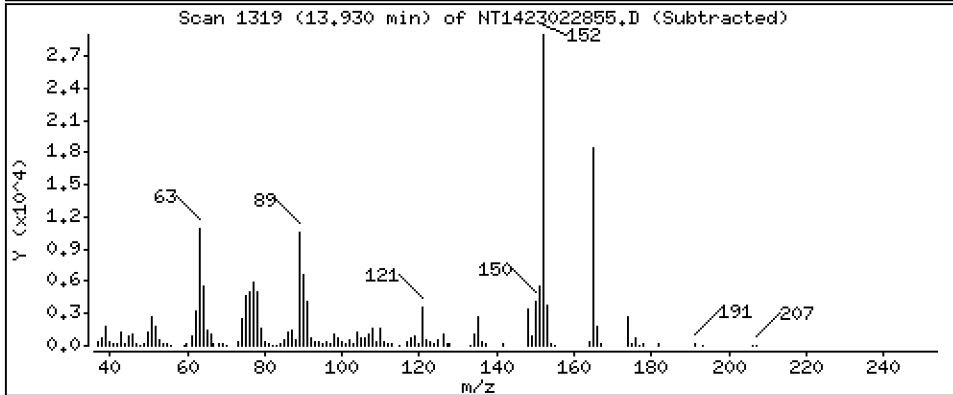
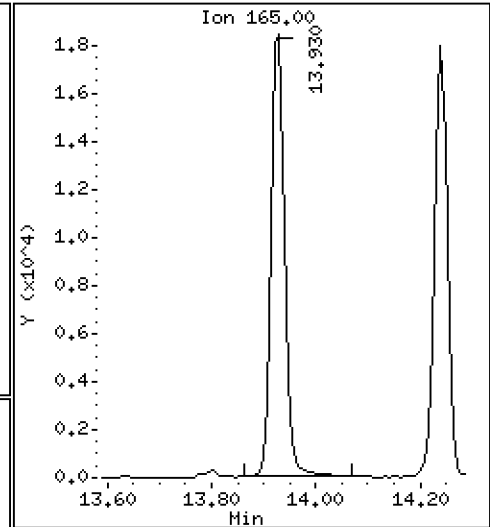
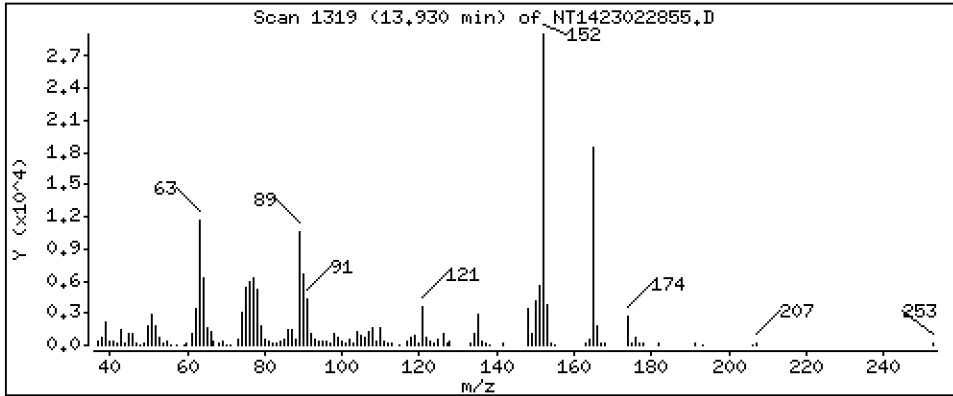
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 19,51 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

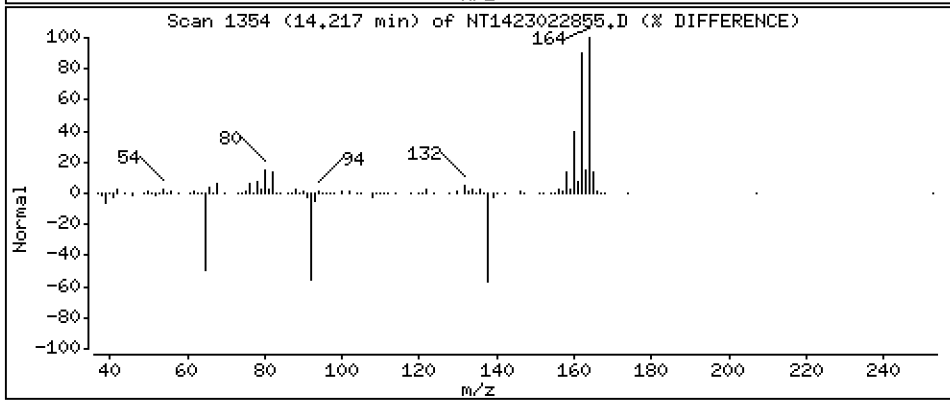
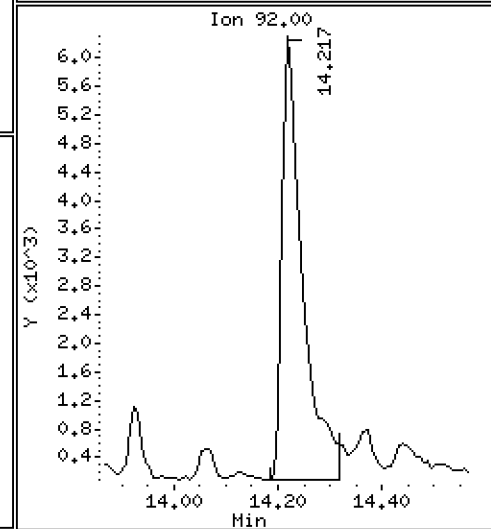
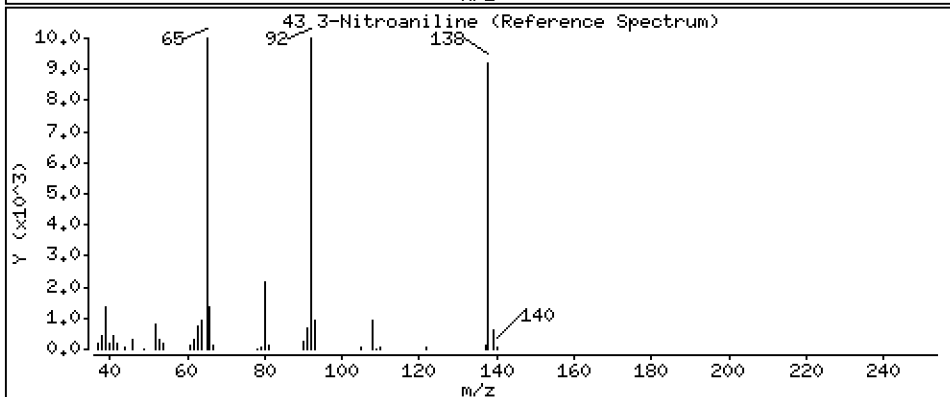
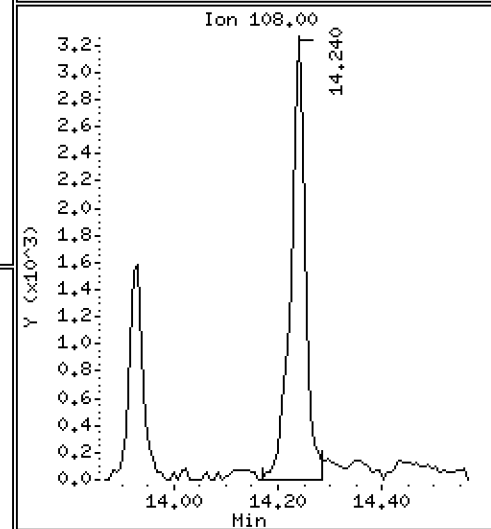
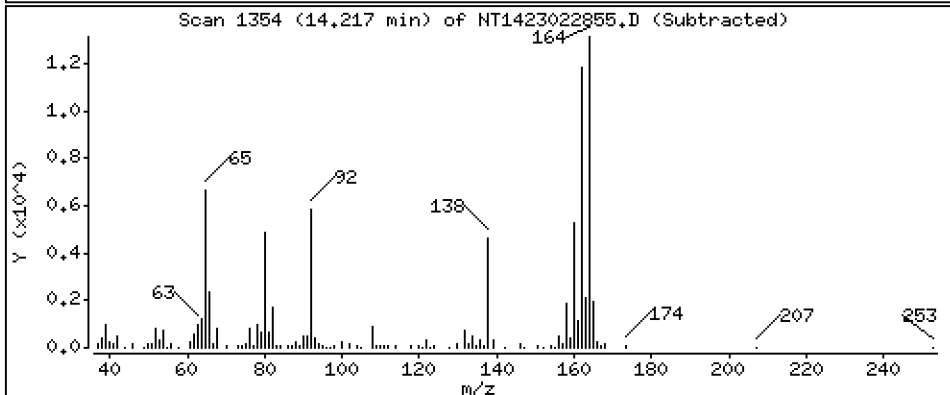
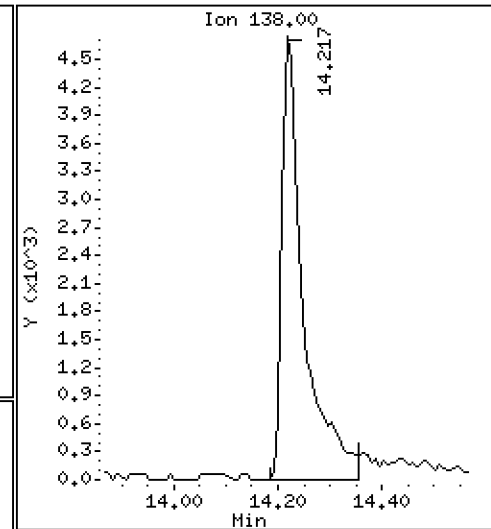
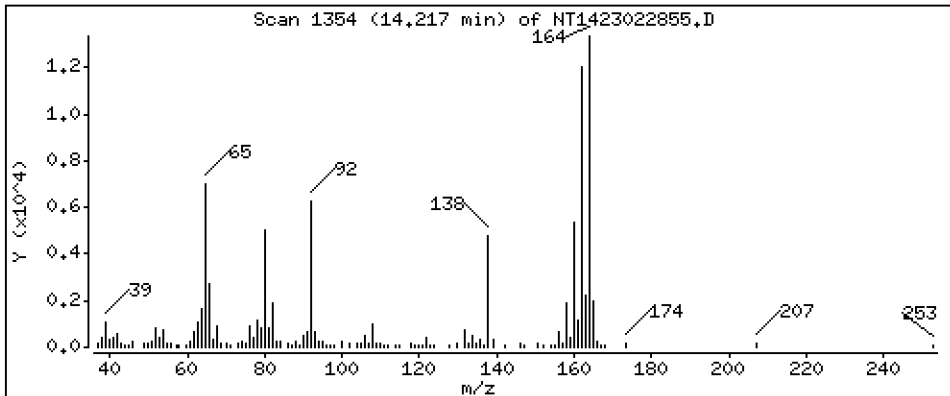
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 8,061 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

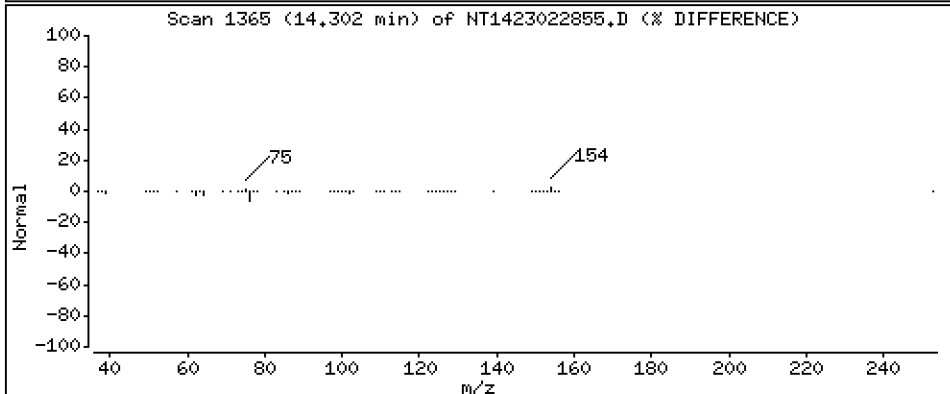
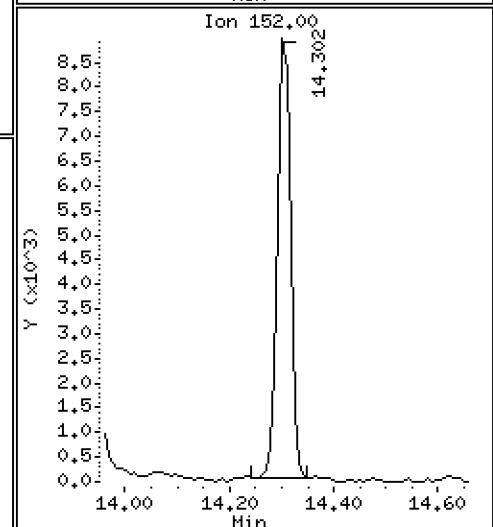
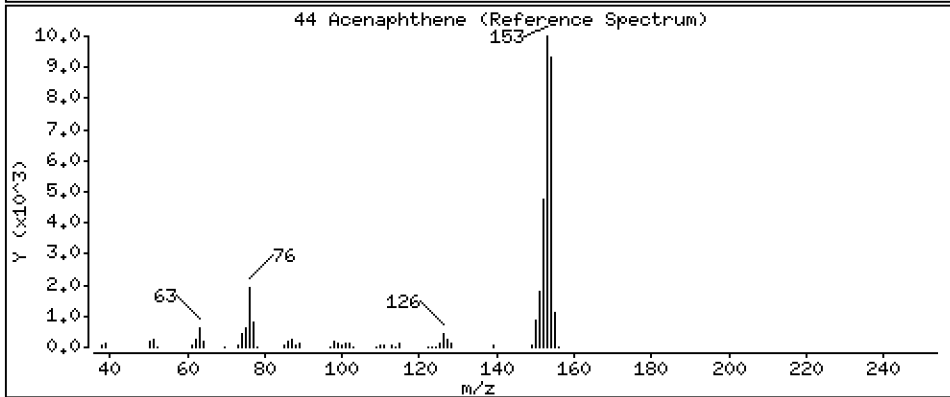
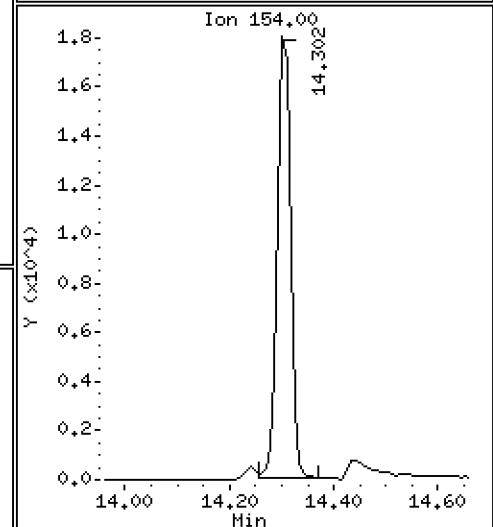
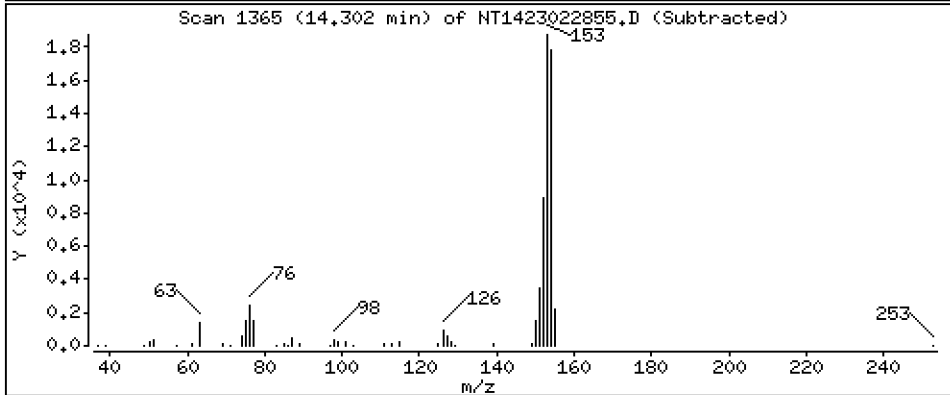
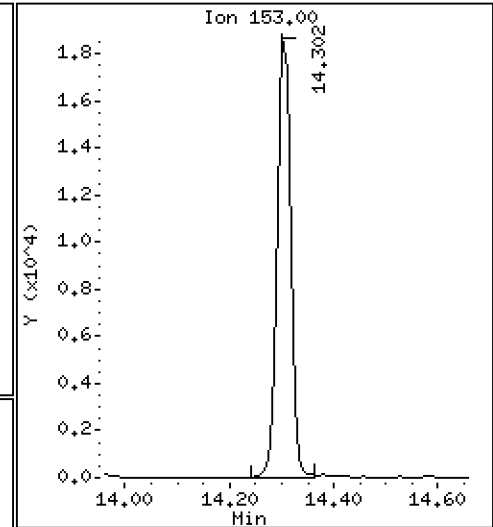
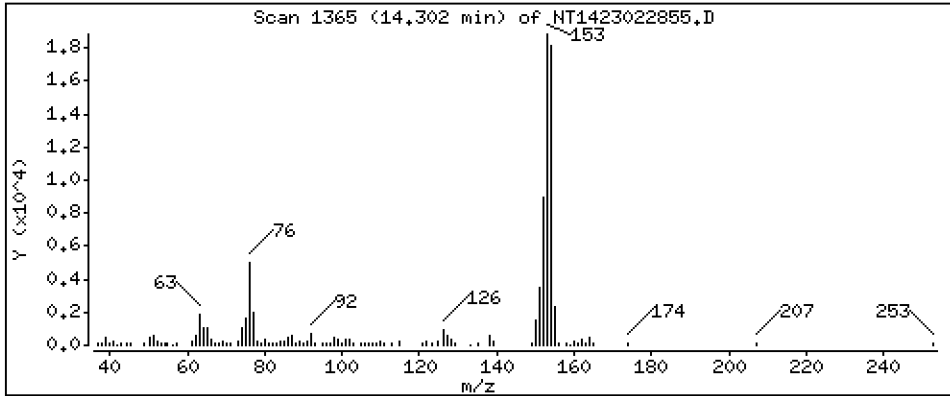
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,902 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

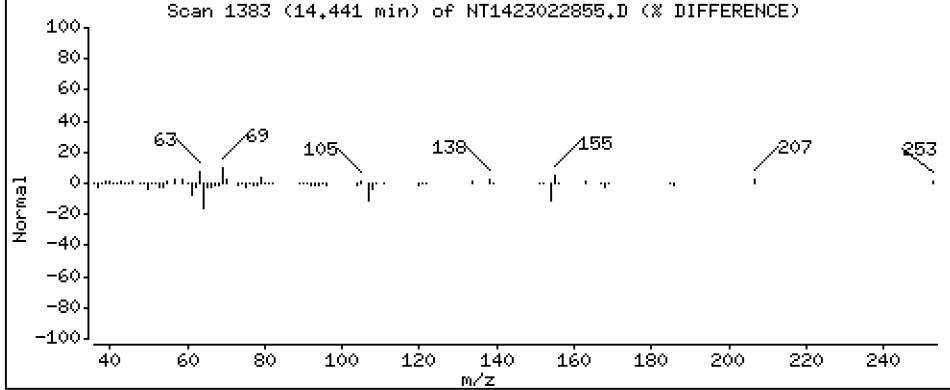
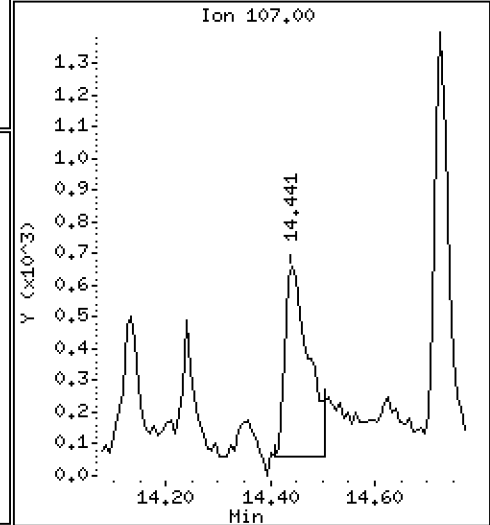
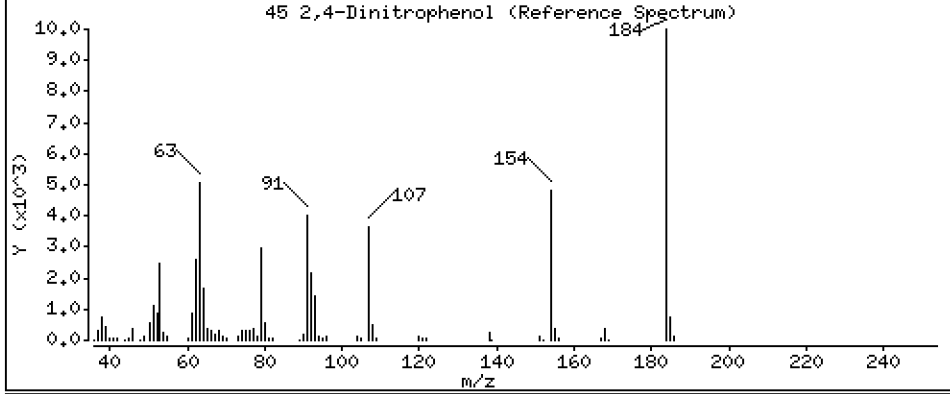
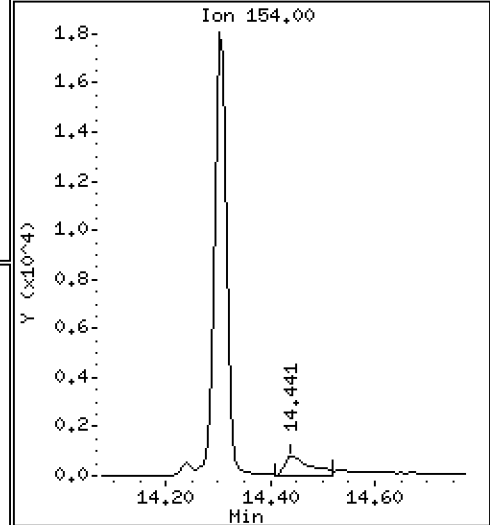
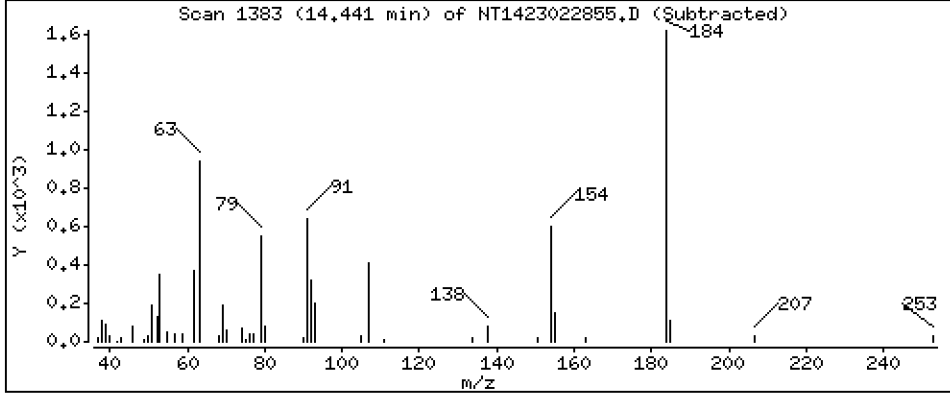
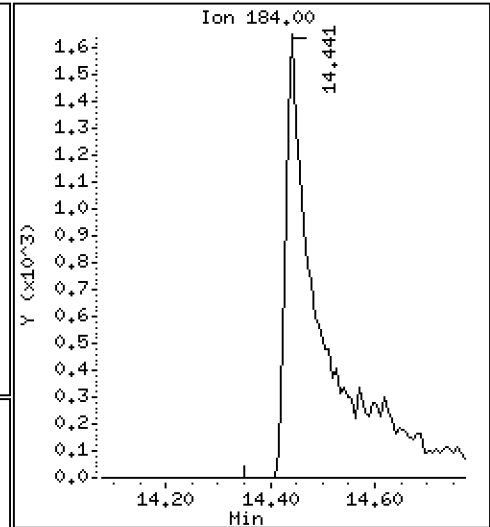
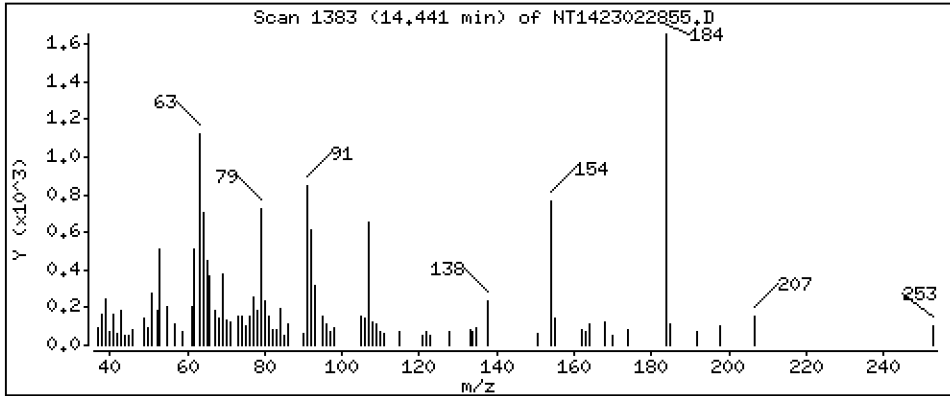
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 8,942 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

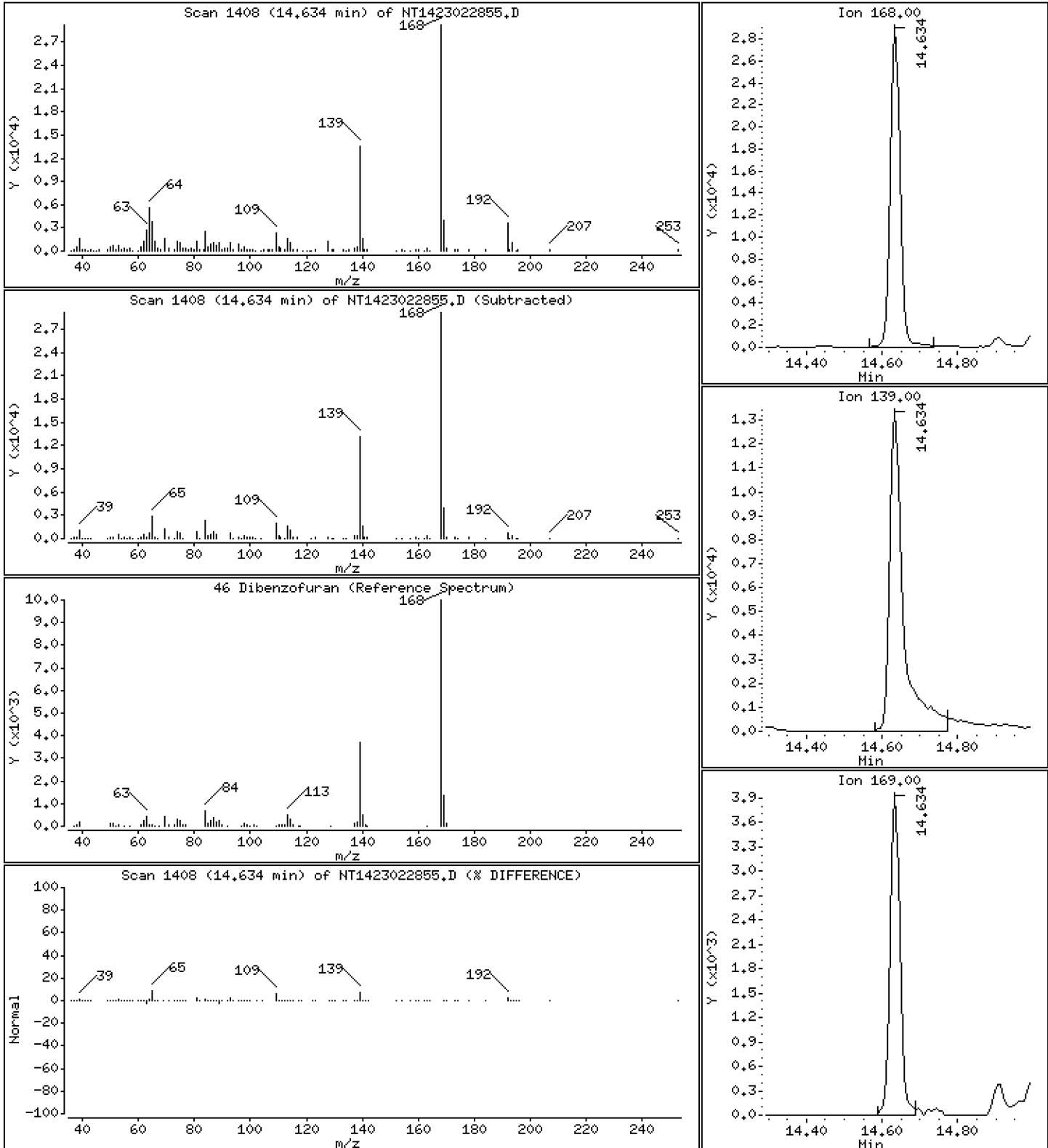
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,802 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

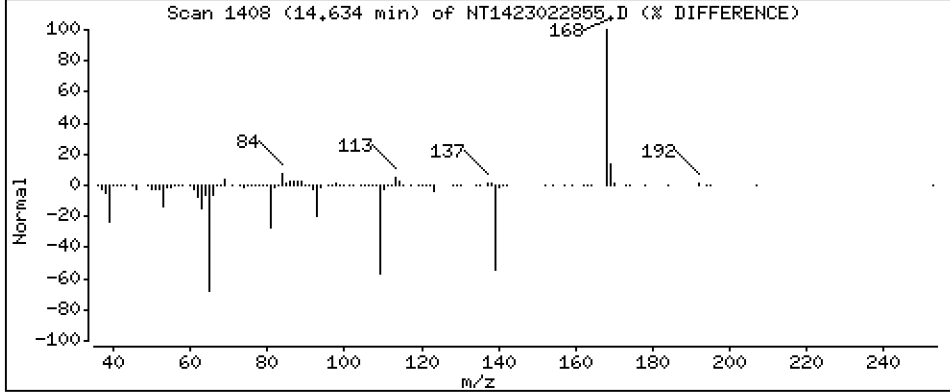
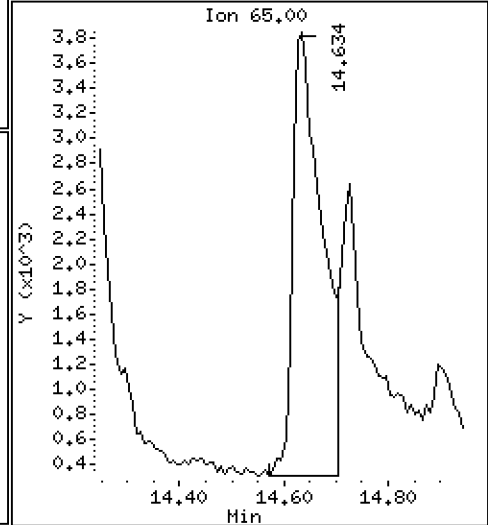
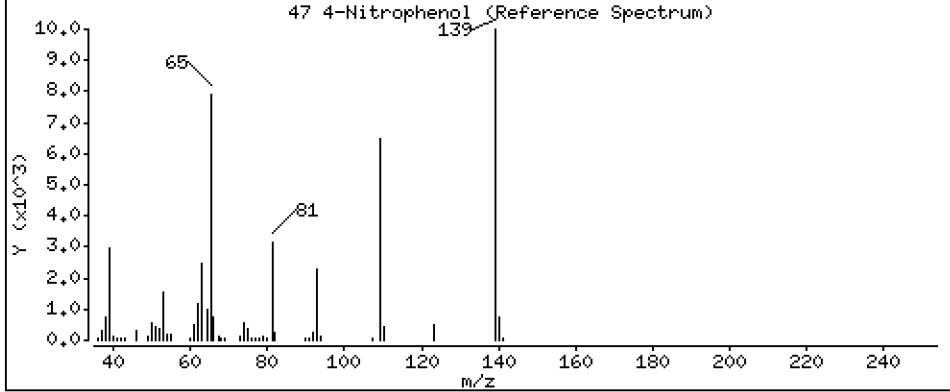
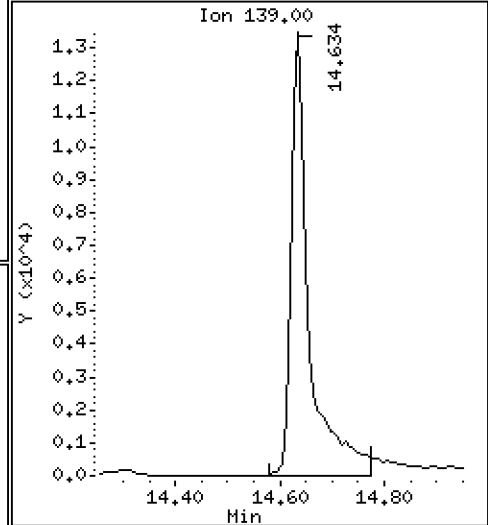
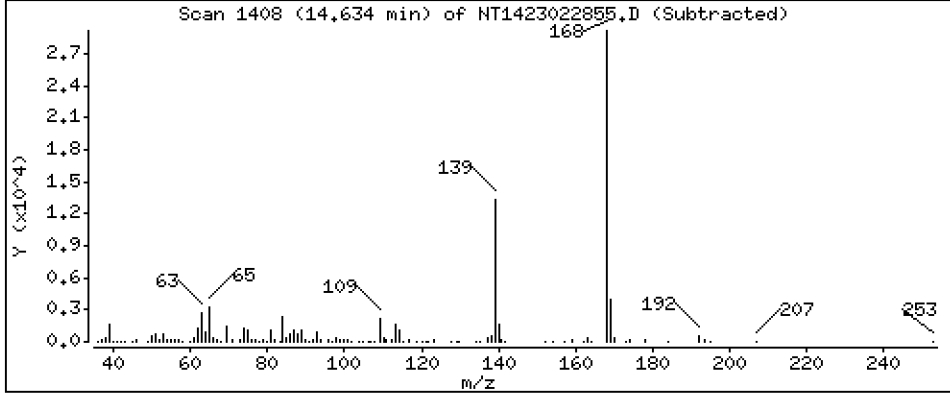
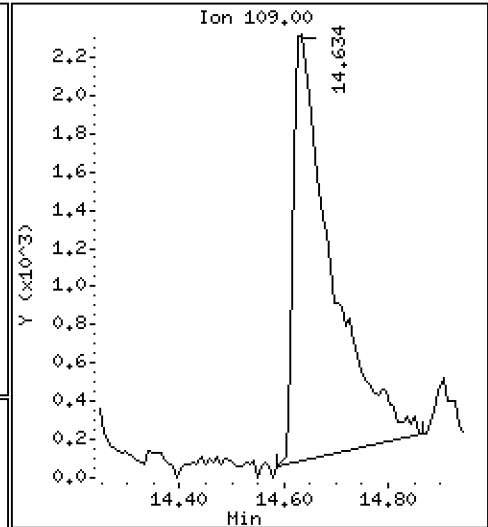
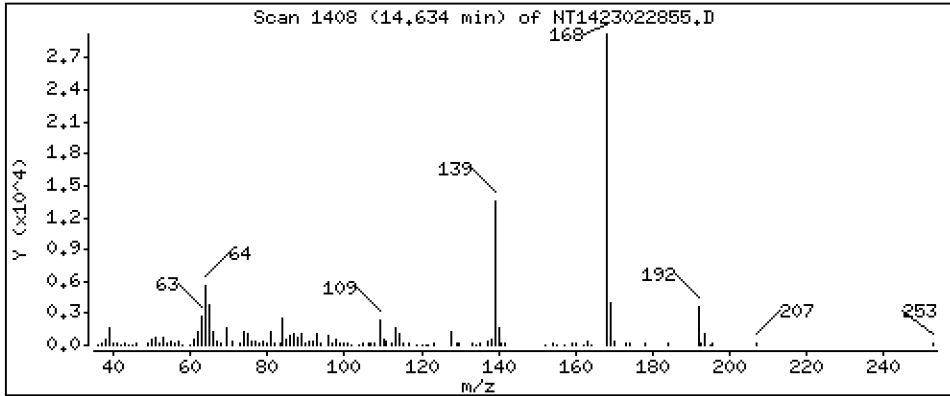
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 13,85 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

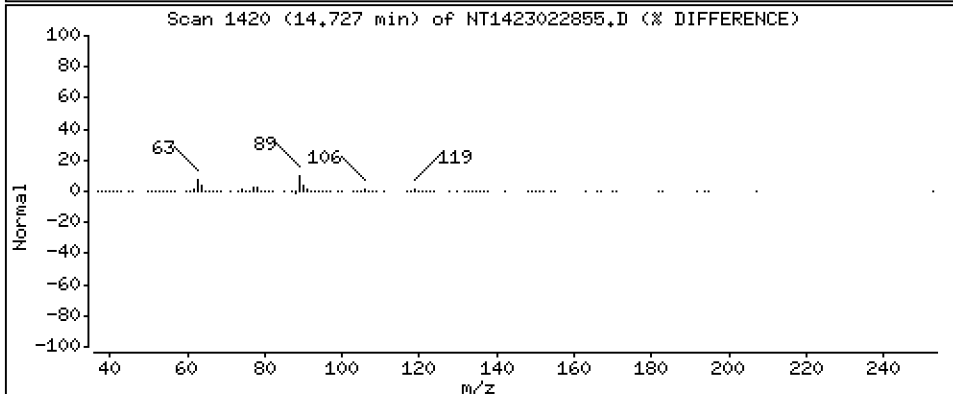
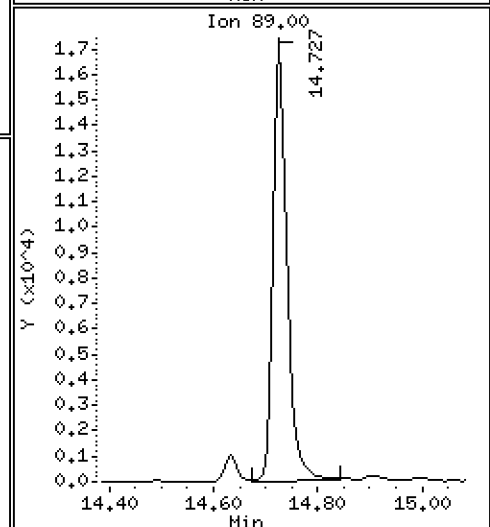
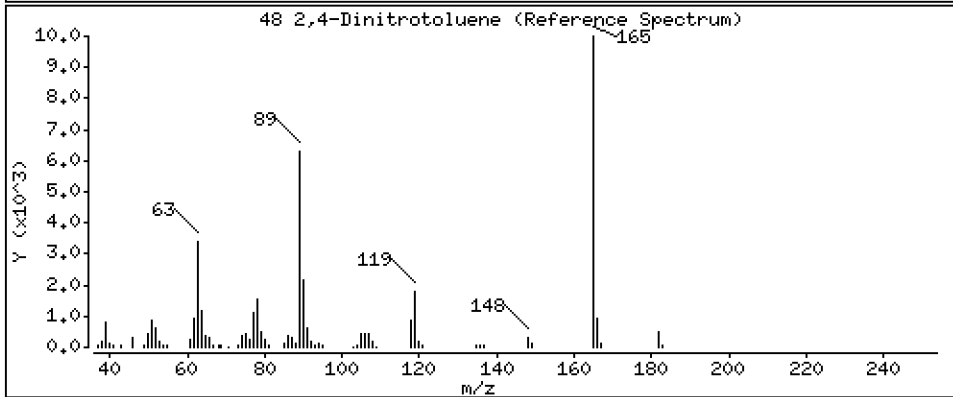
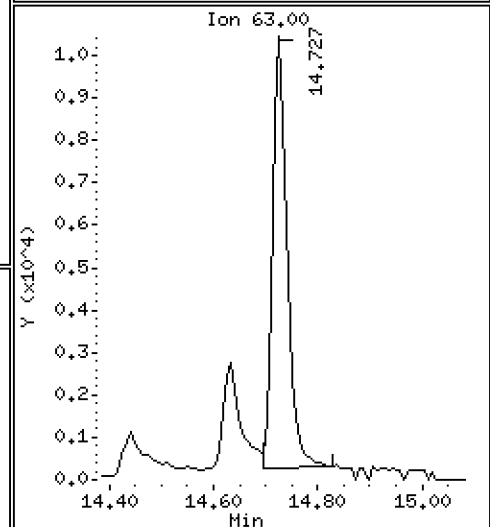
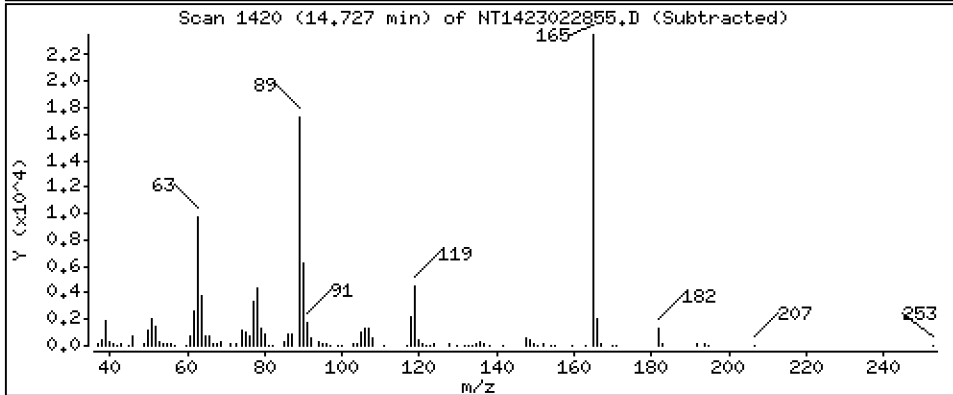
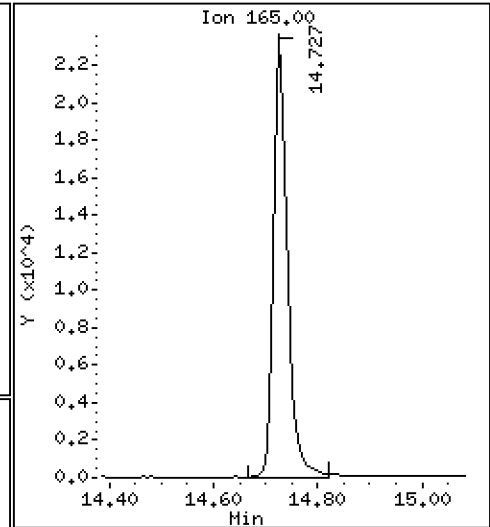
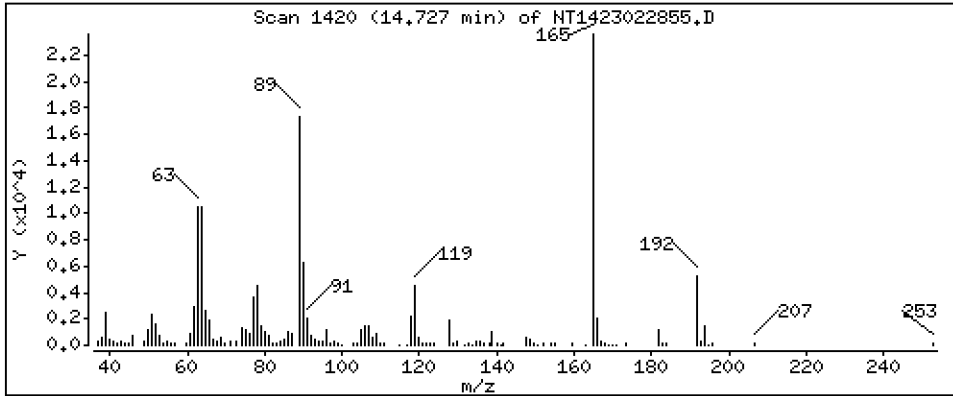
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 17,93 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

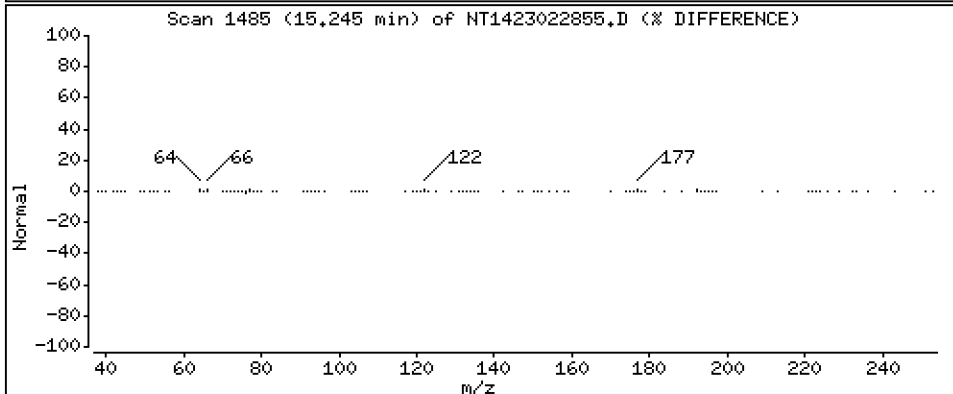
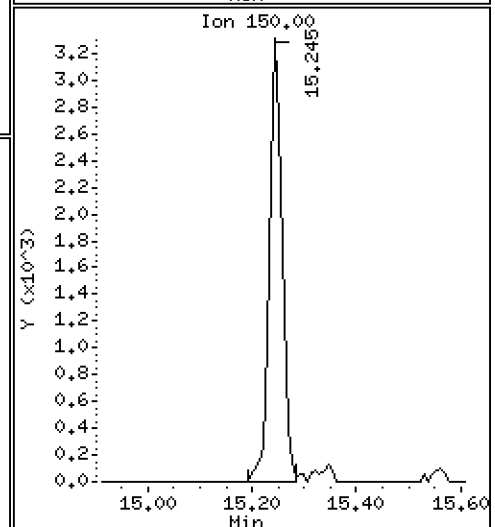
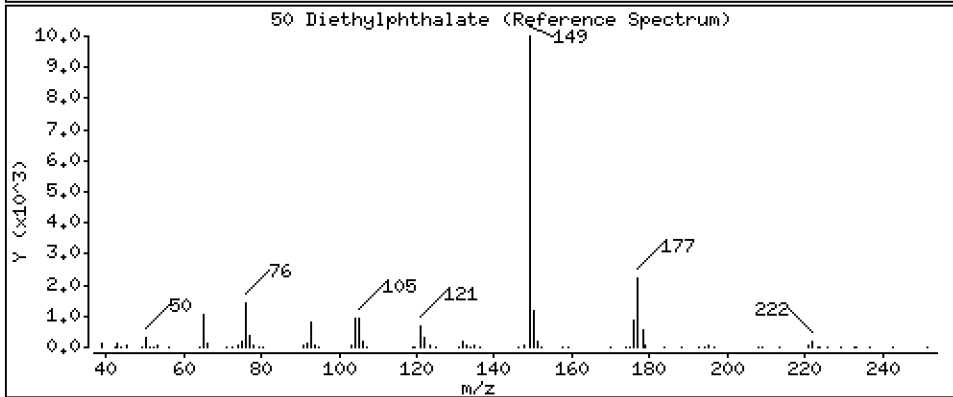
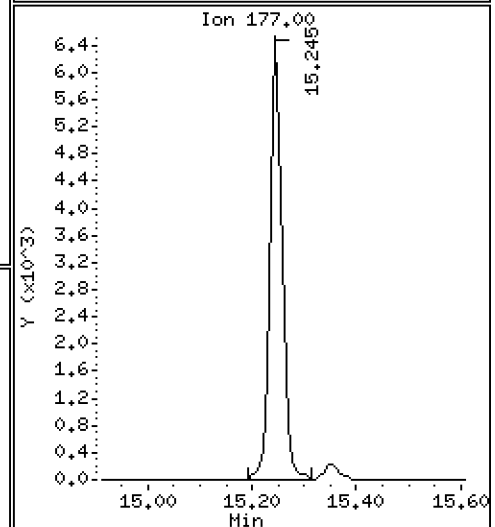
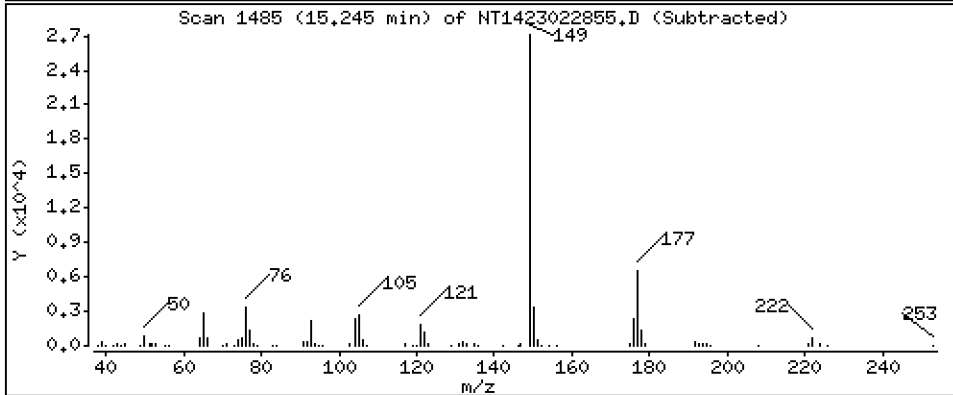
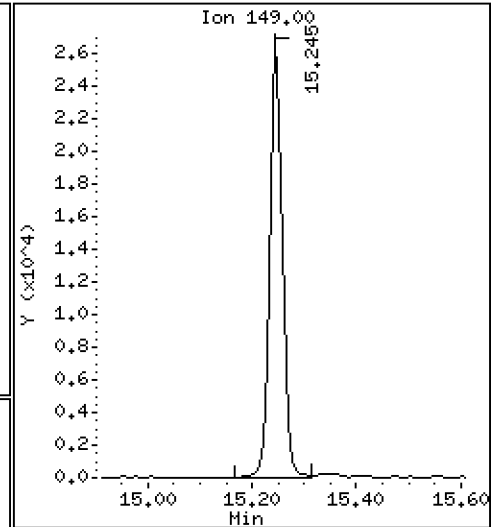
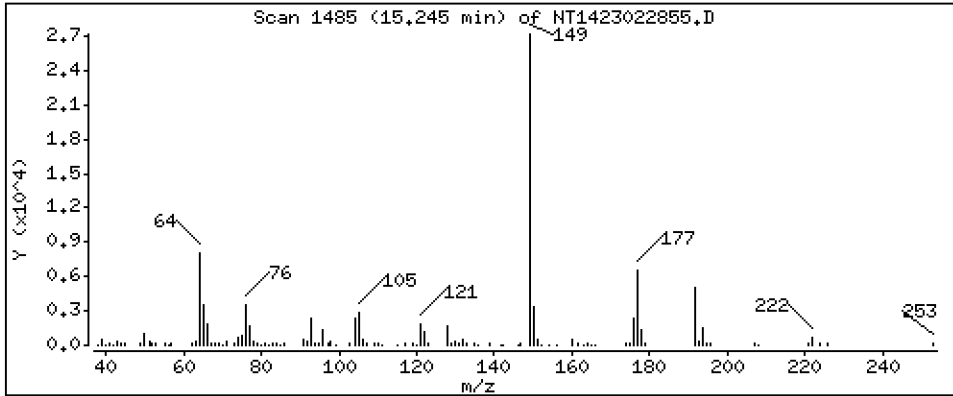
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 6,619 ug/mL





Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

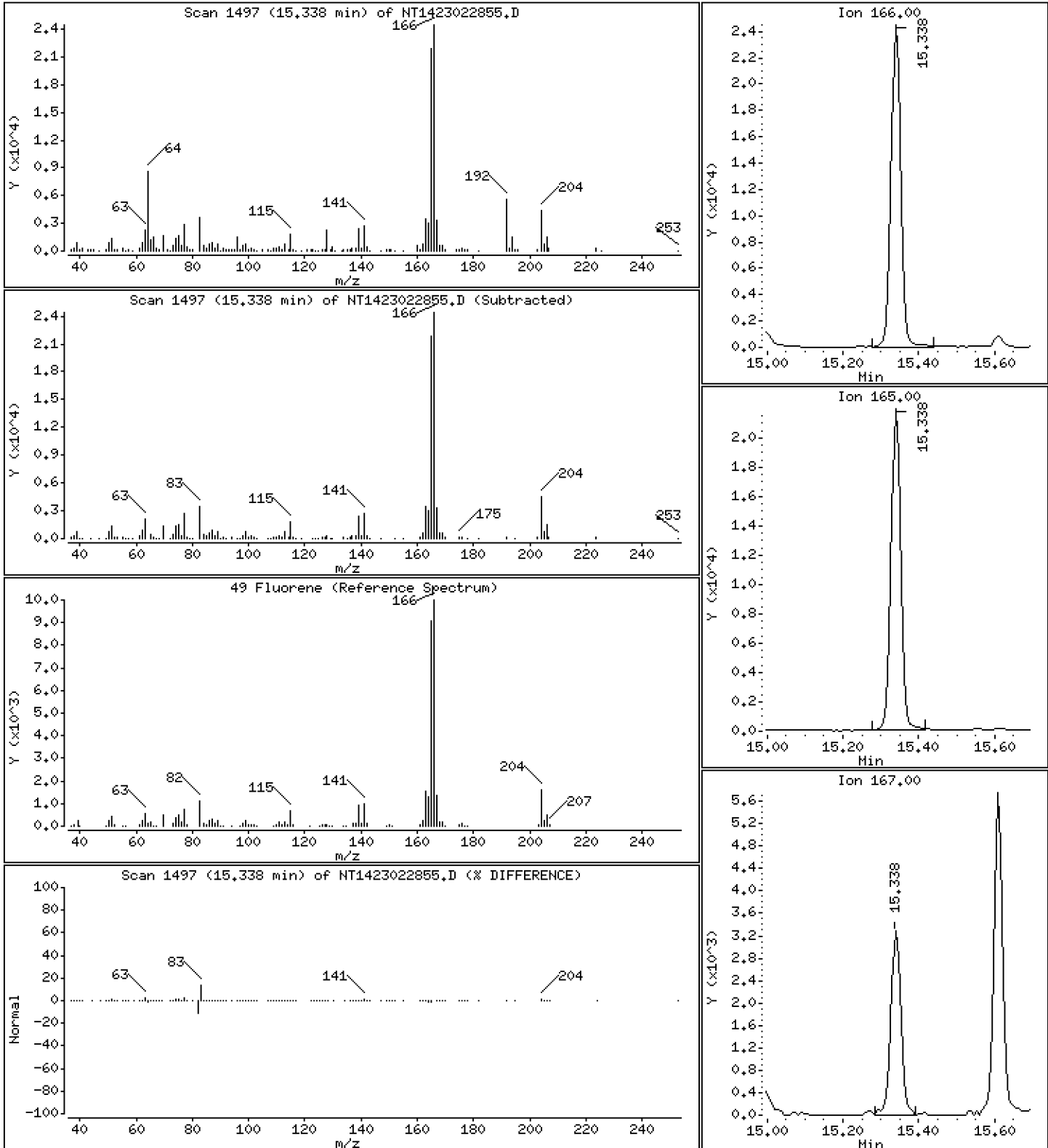
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 5,290 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

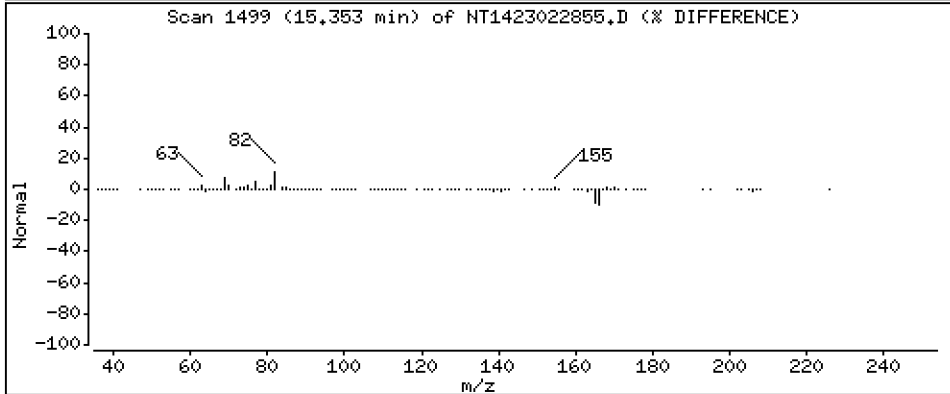
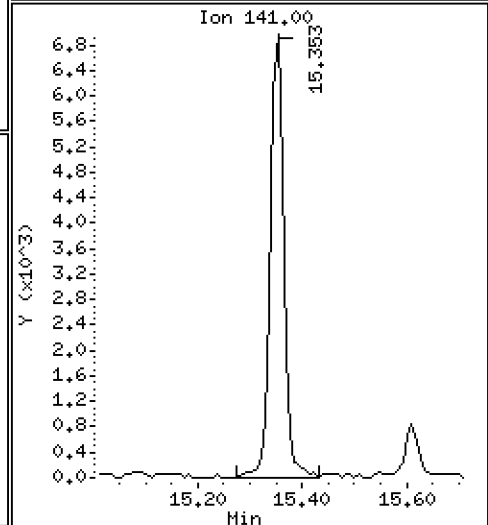
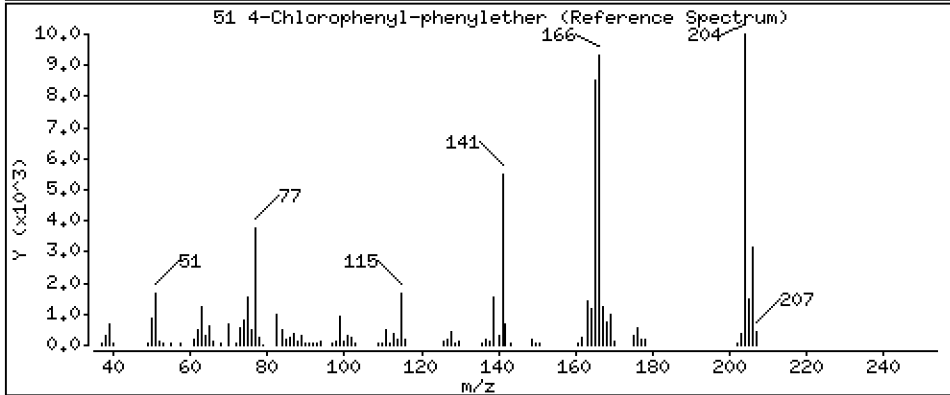
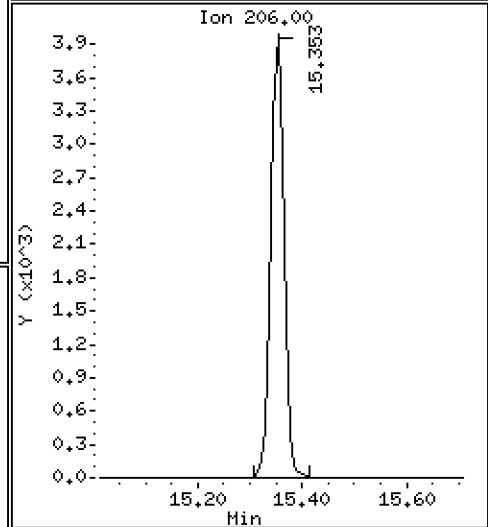
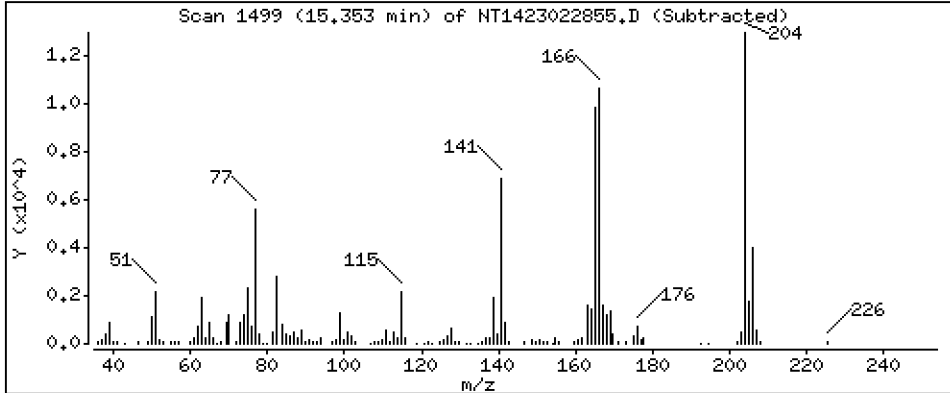
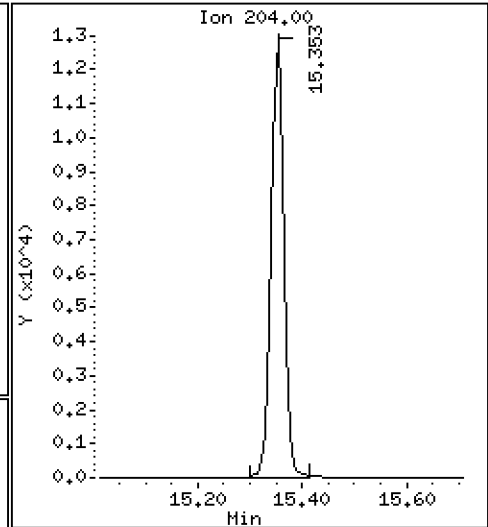
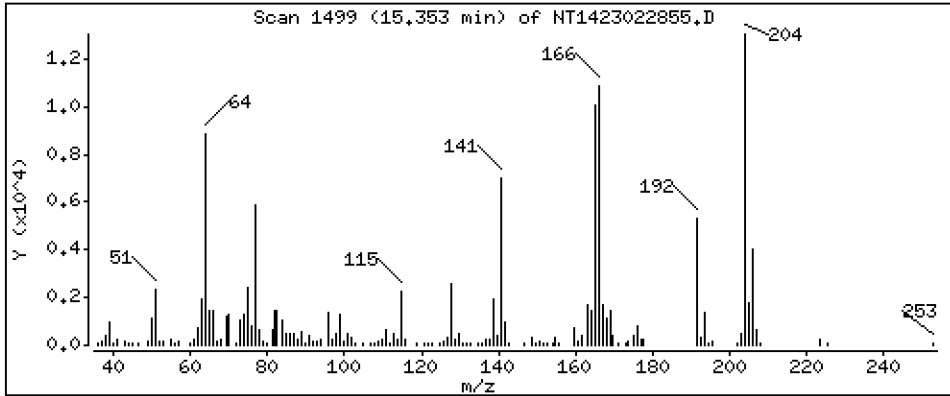
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 5,107 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

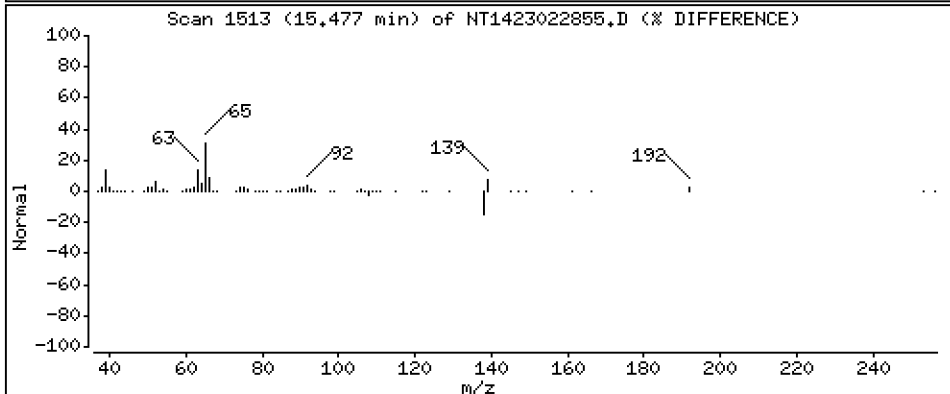
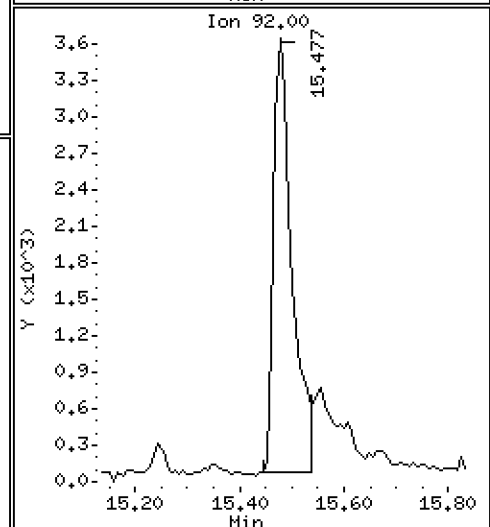
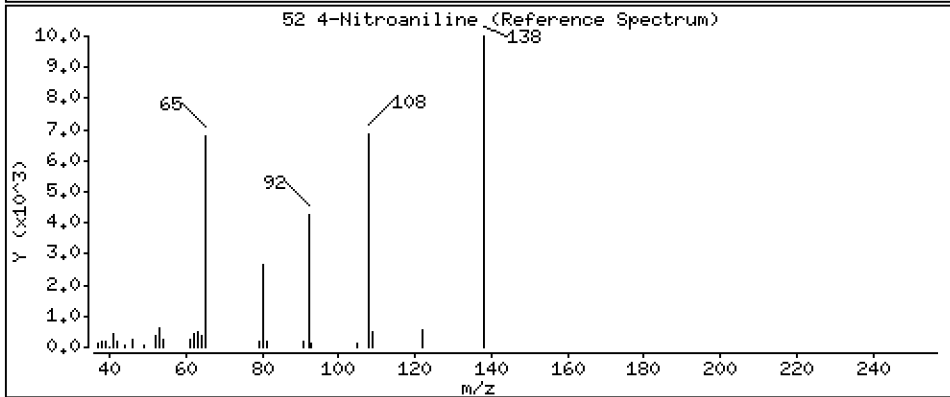
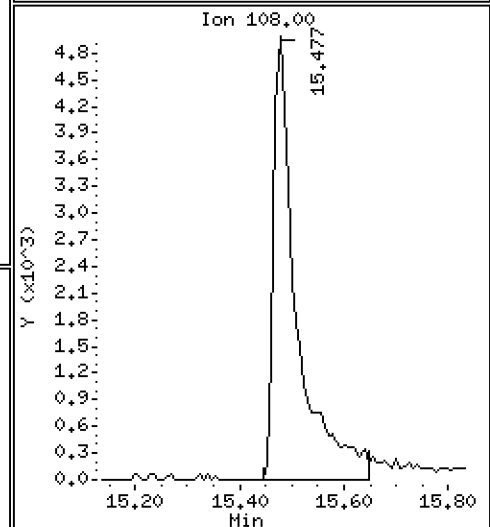
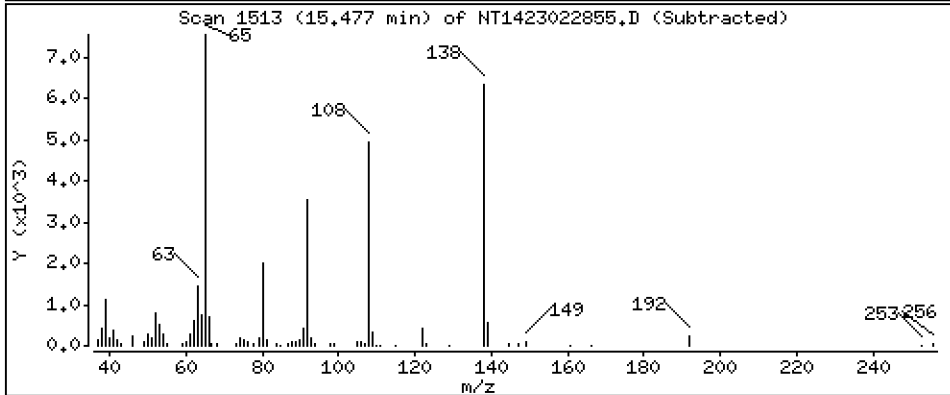
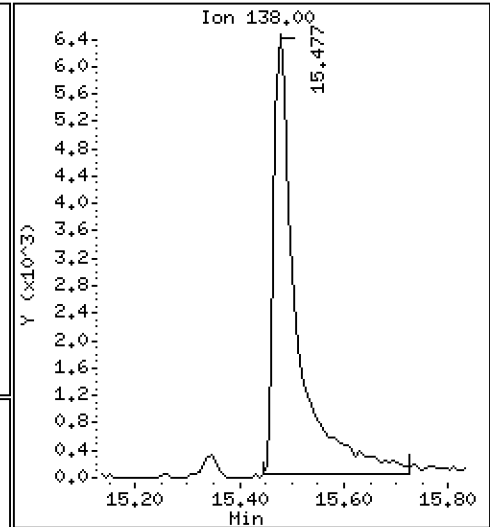
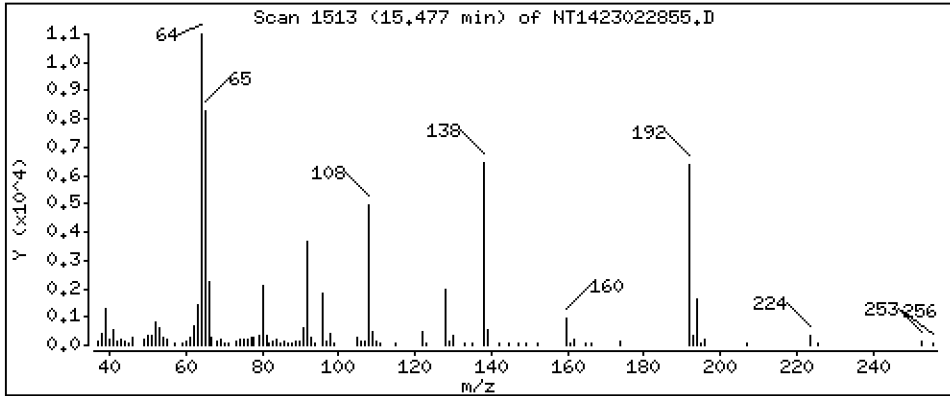
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 11,55 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

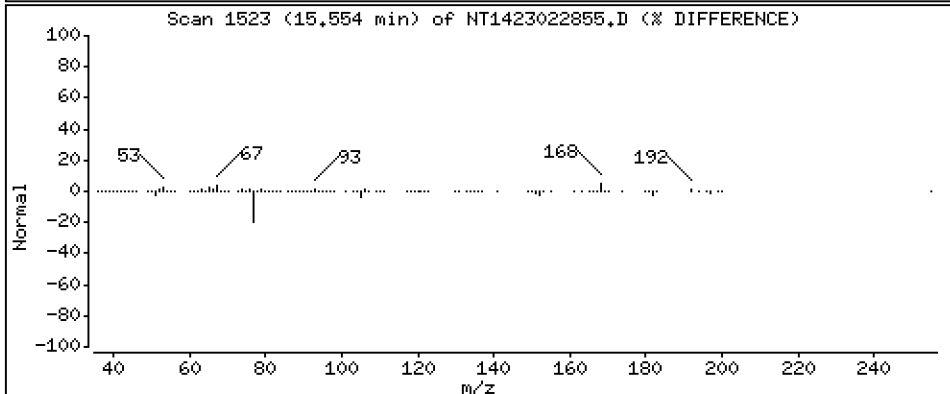
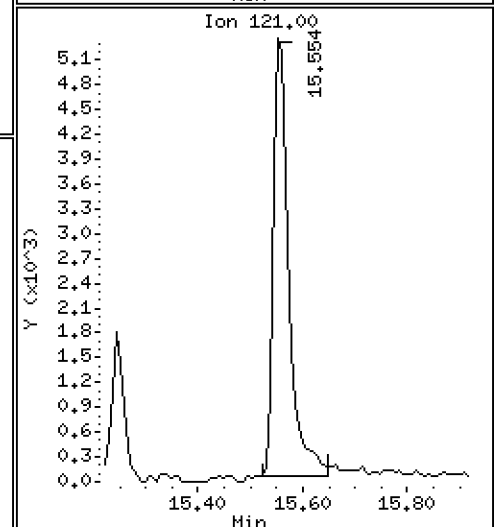
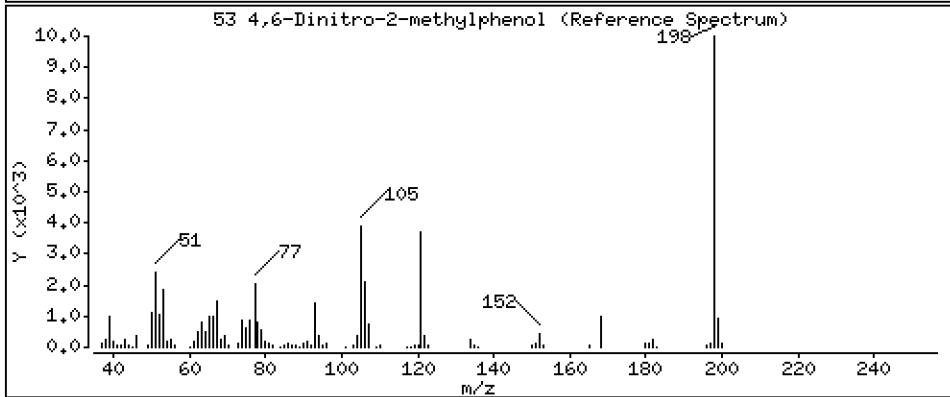
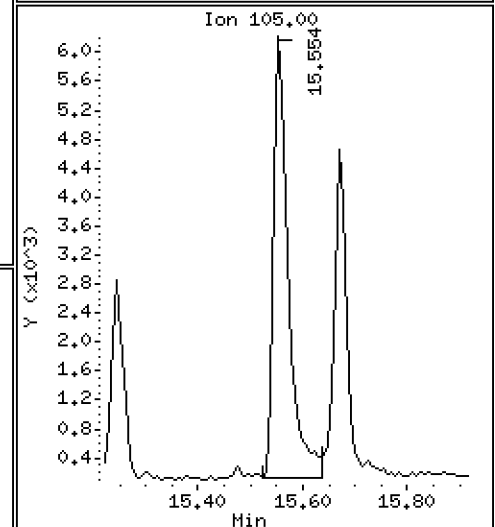
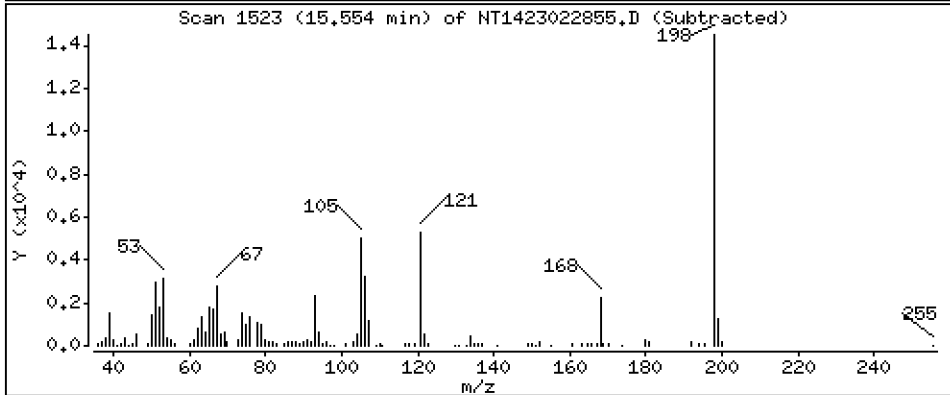
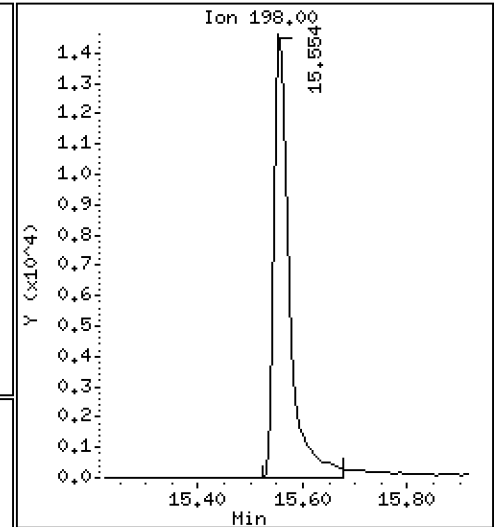
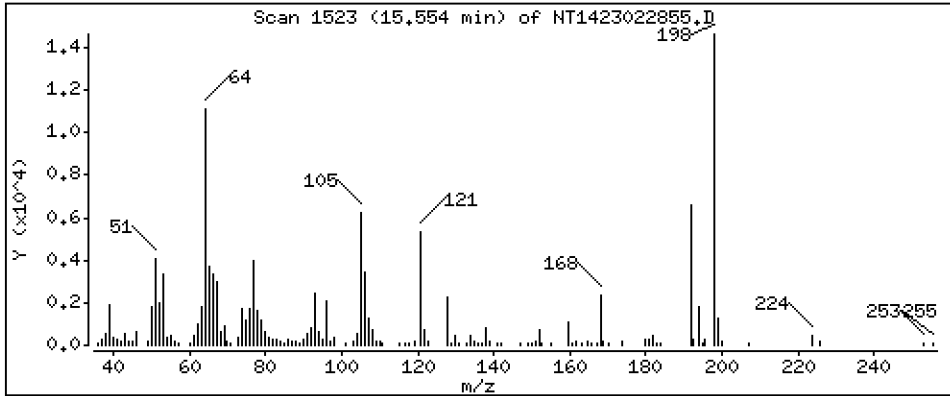
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 21,54 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

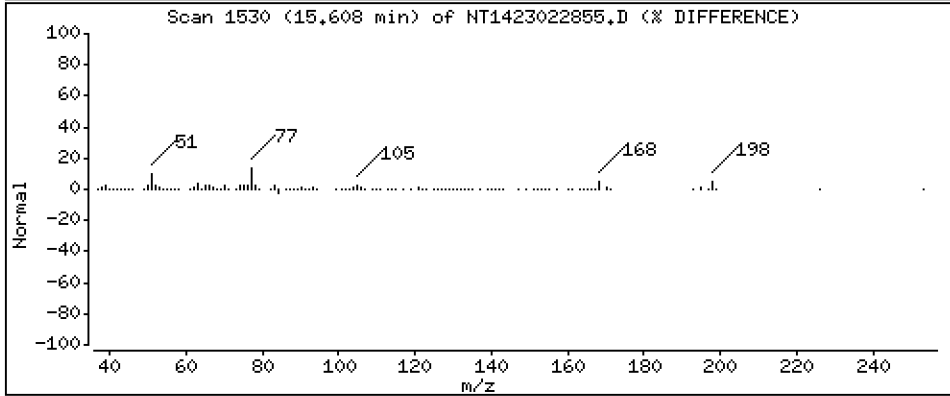
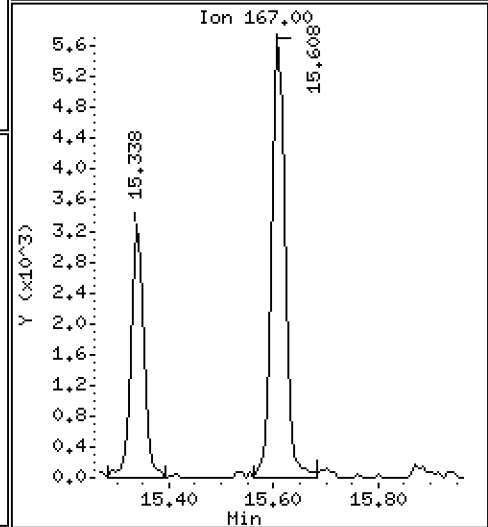
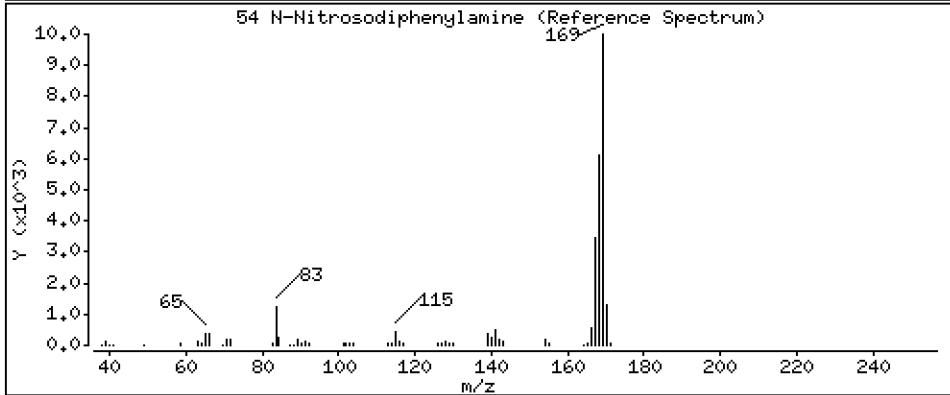
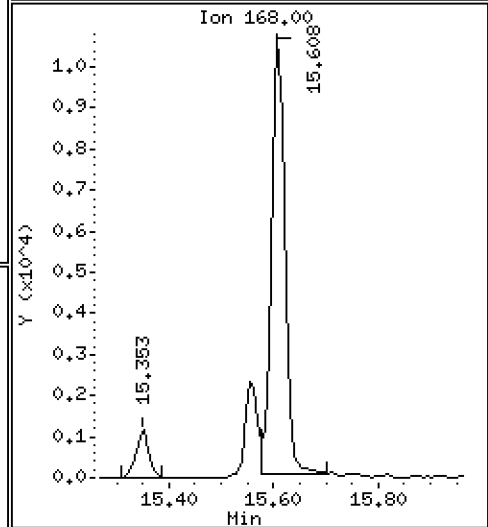
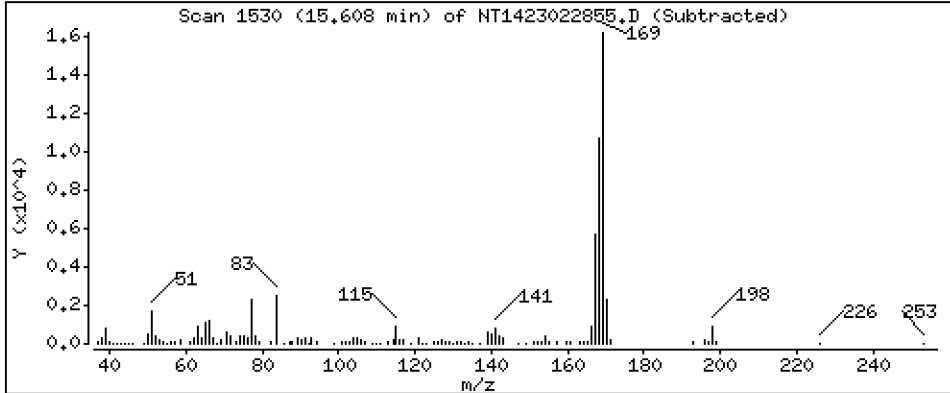
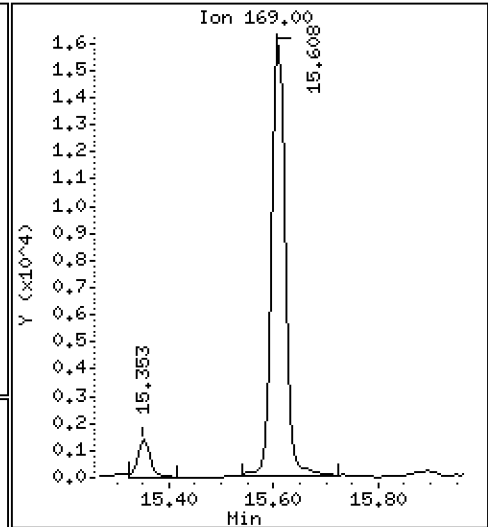
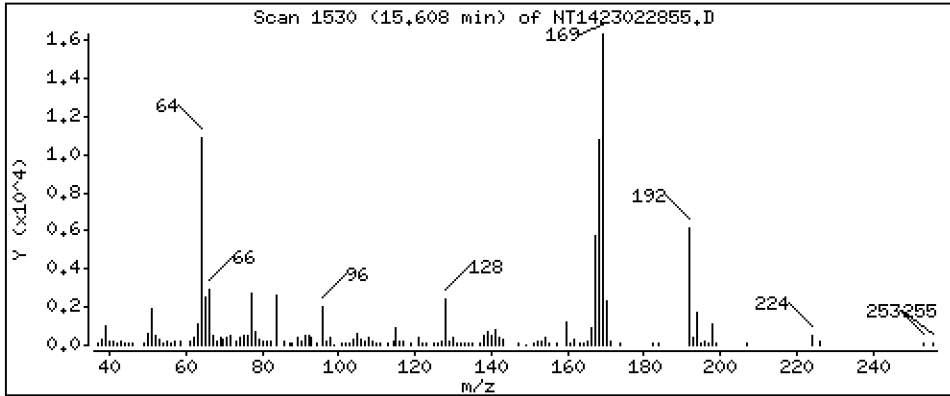
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 5,363 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

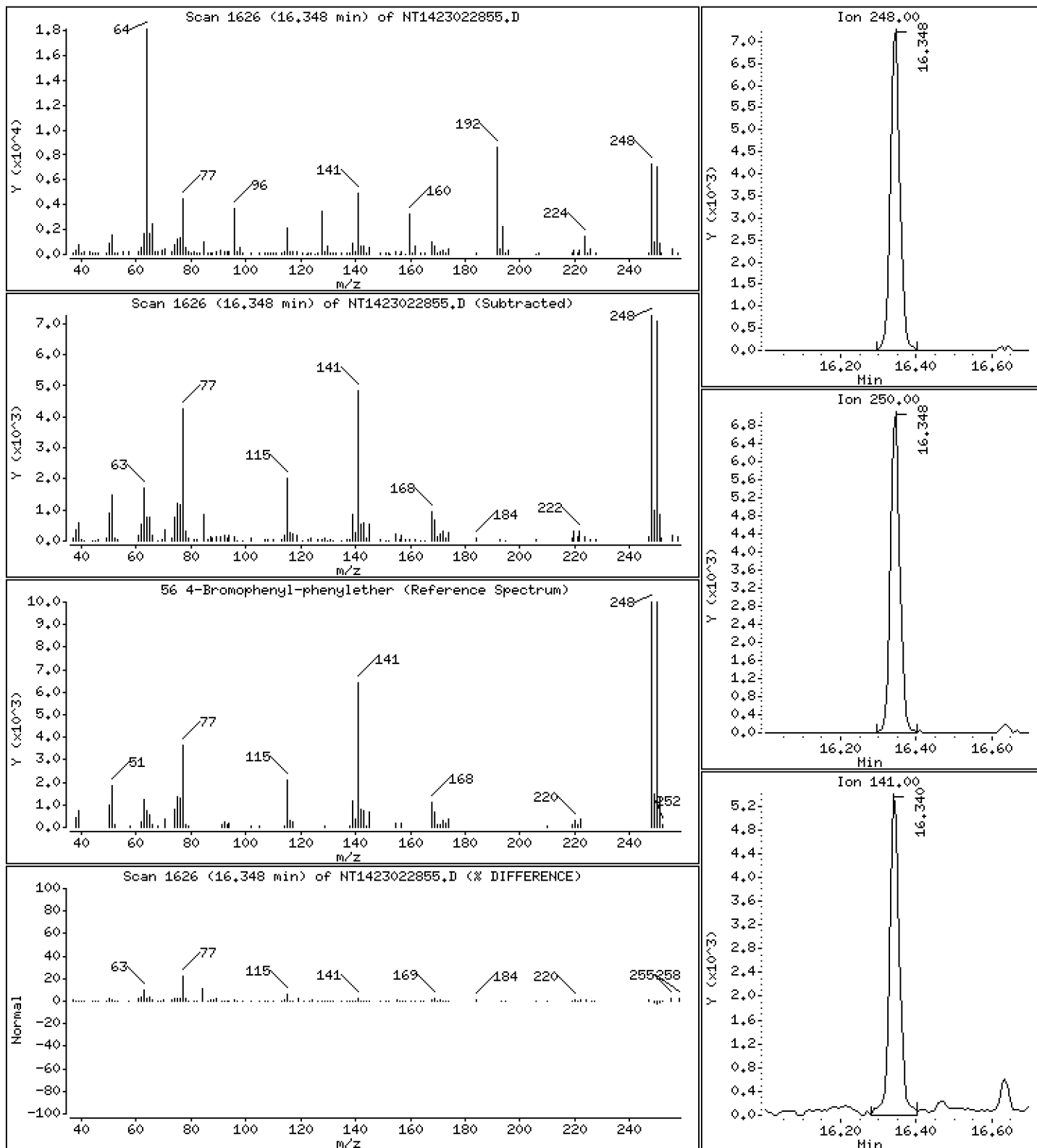
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,518 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

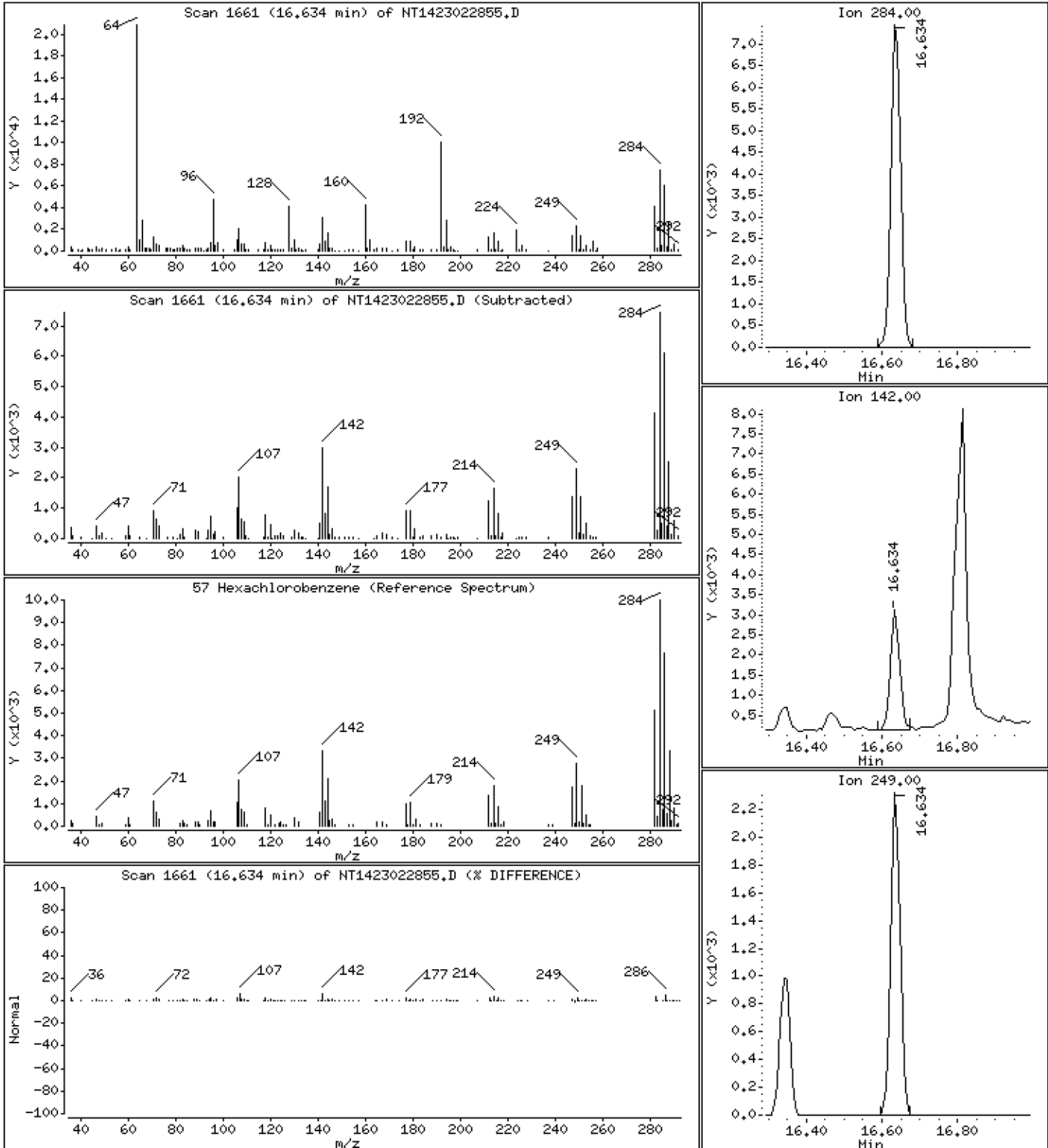
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 5,108 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

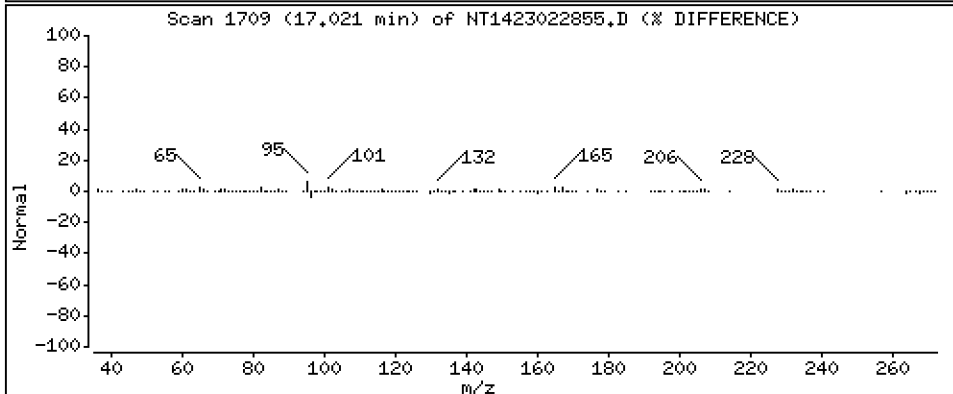
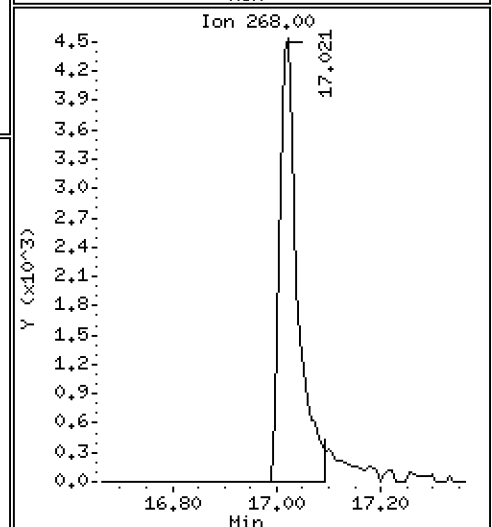
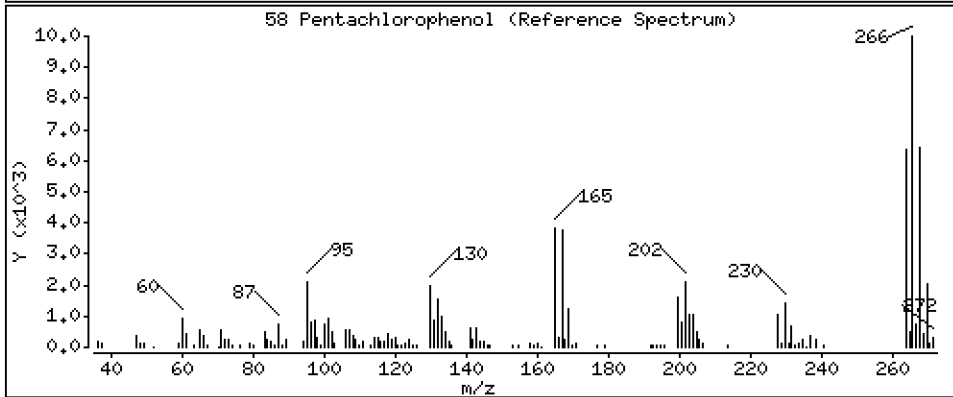
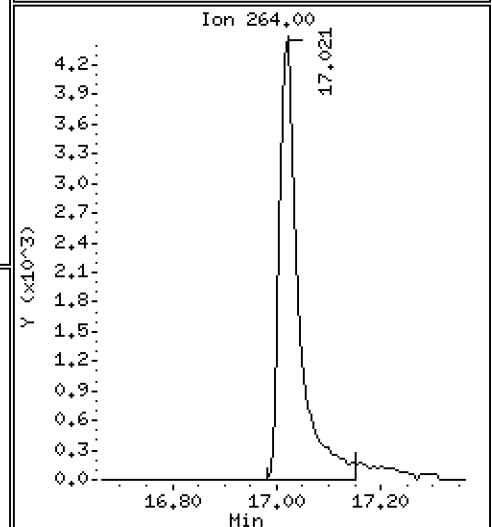
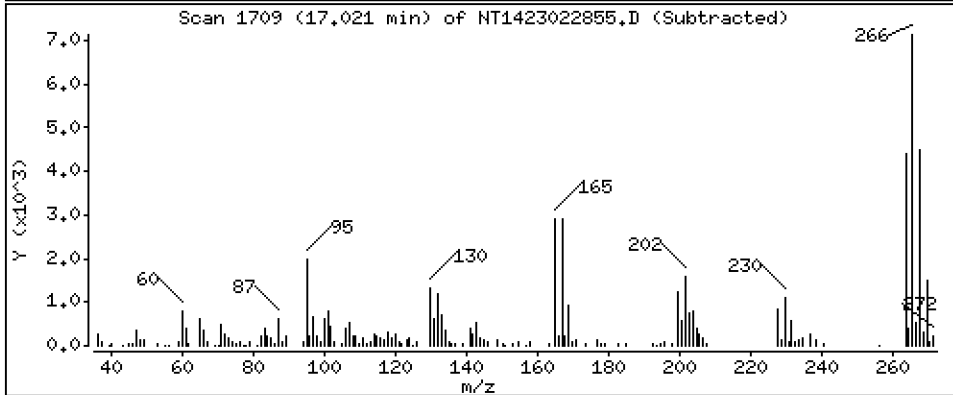
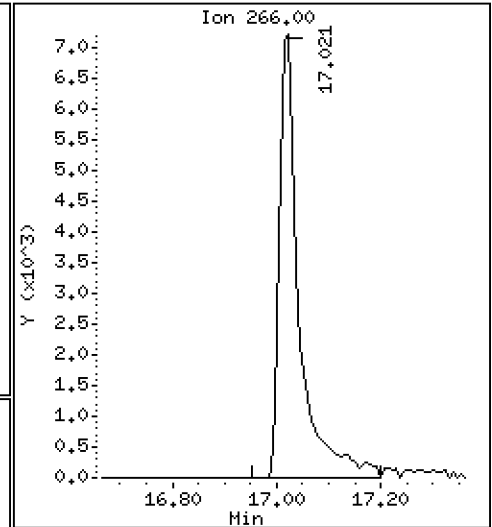
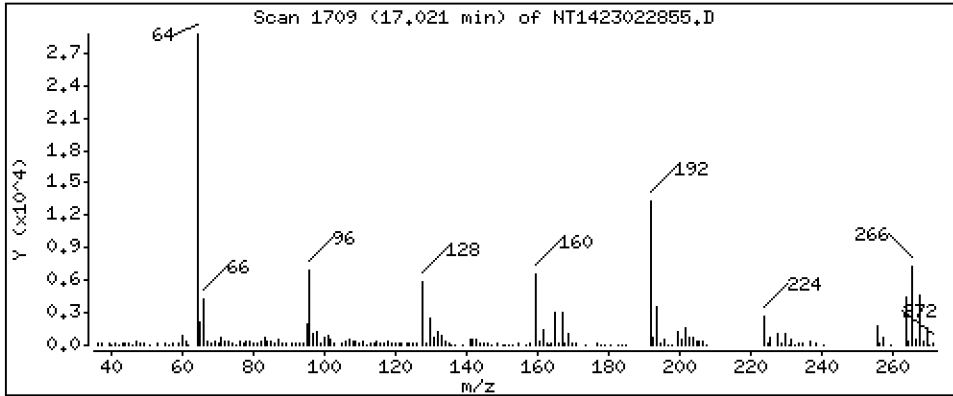
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 15,82 ug/mL





Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

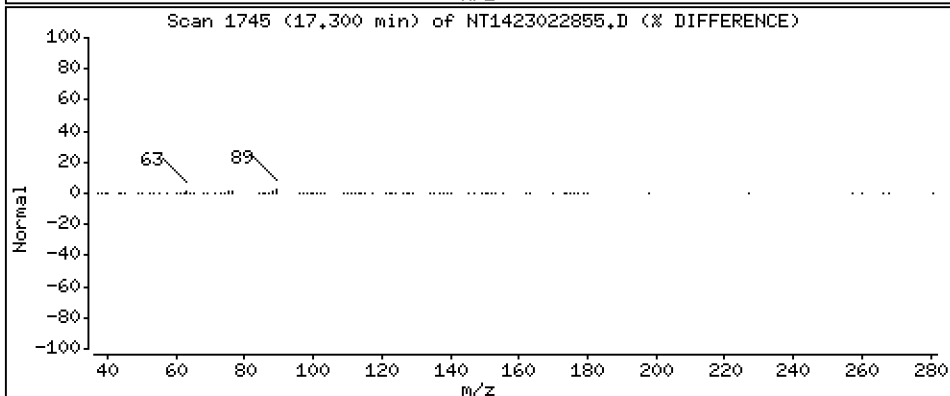
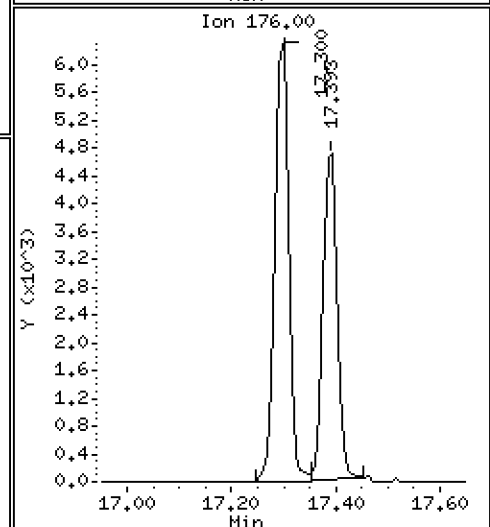
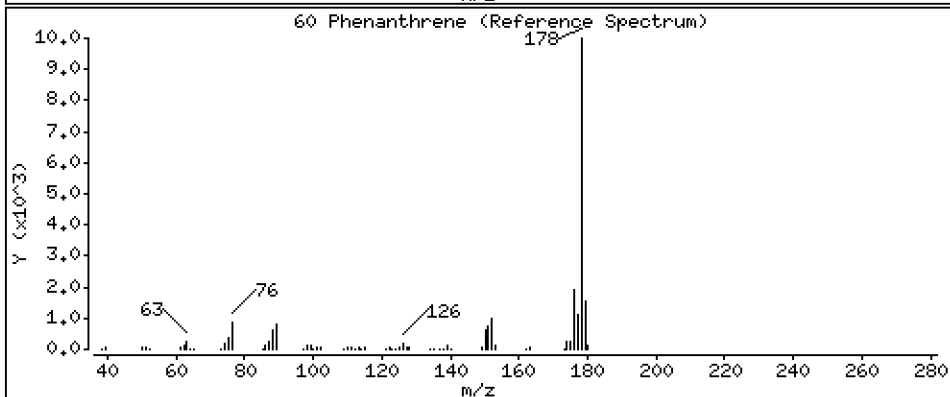
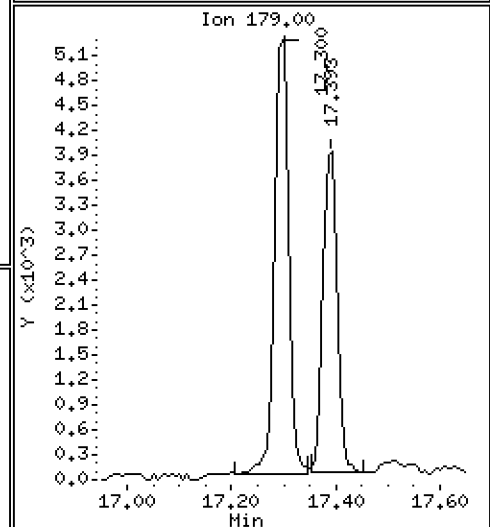
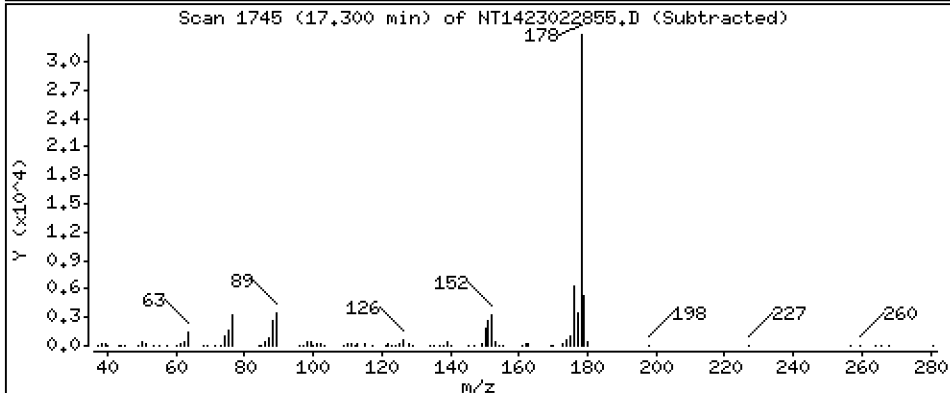
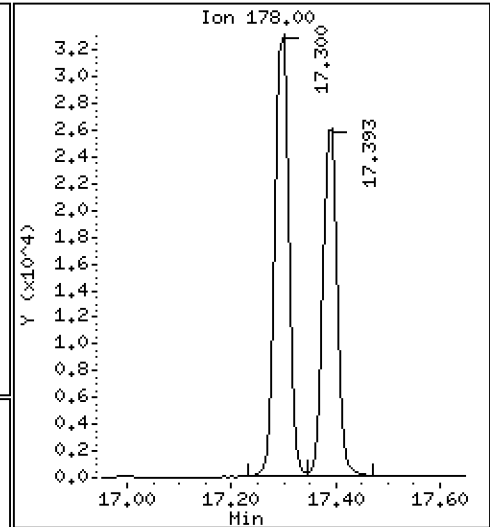
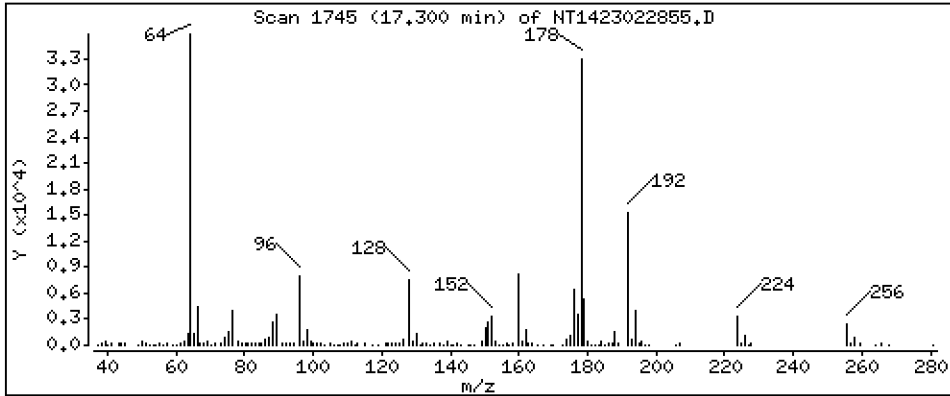
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 5,378 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

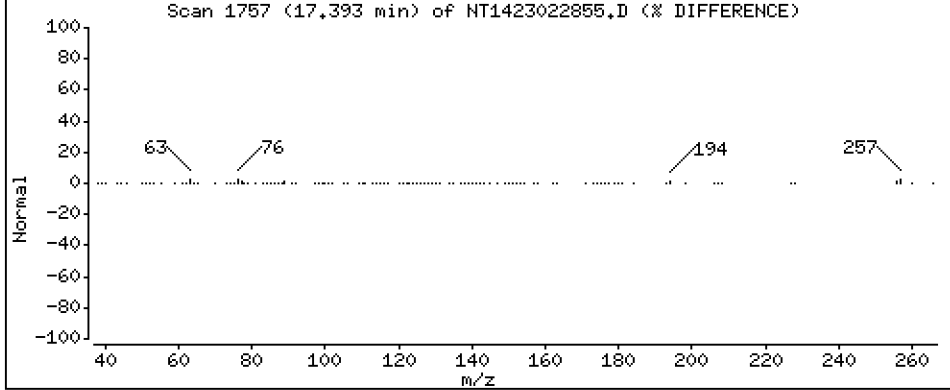
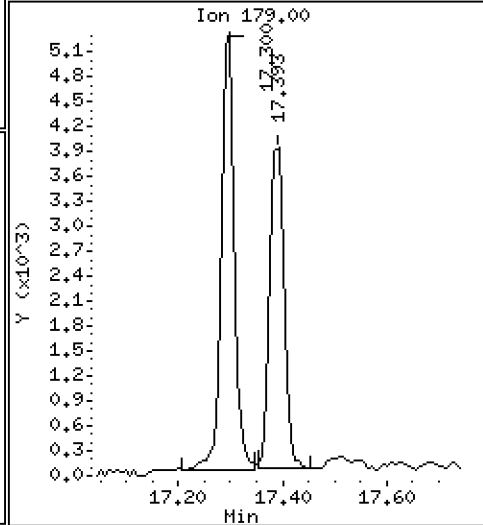
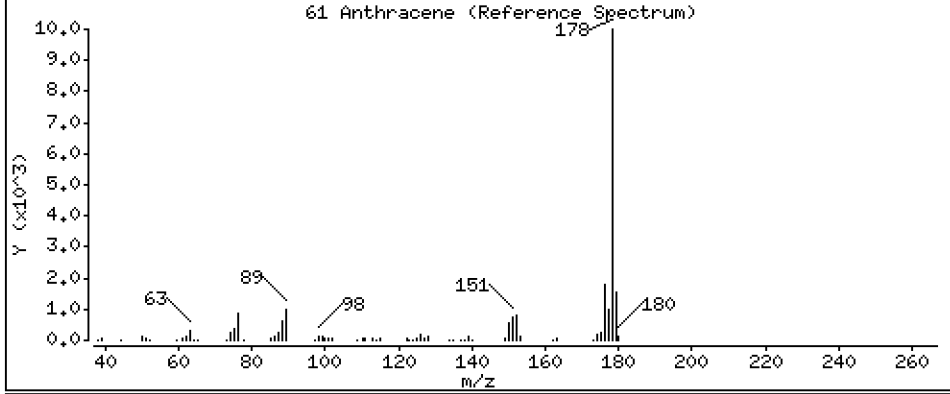
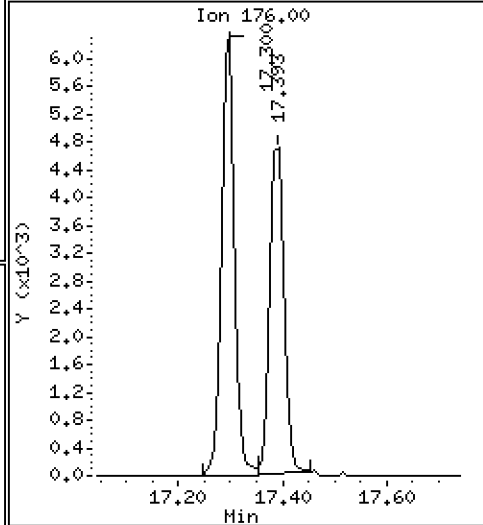
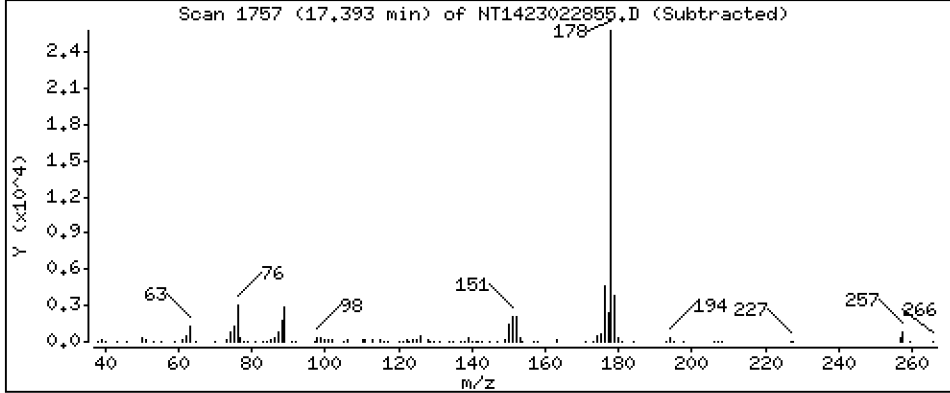
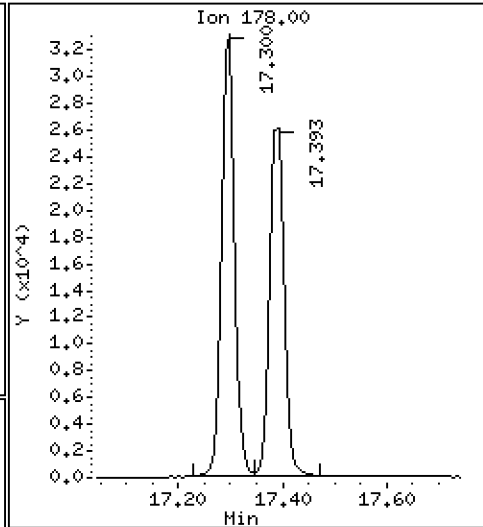
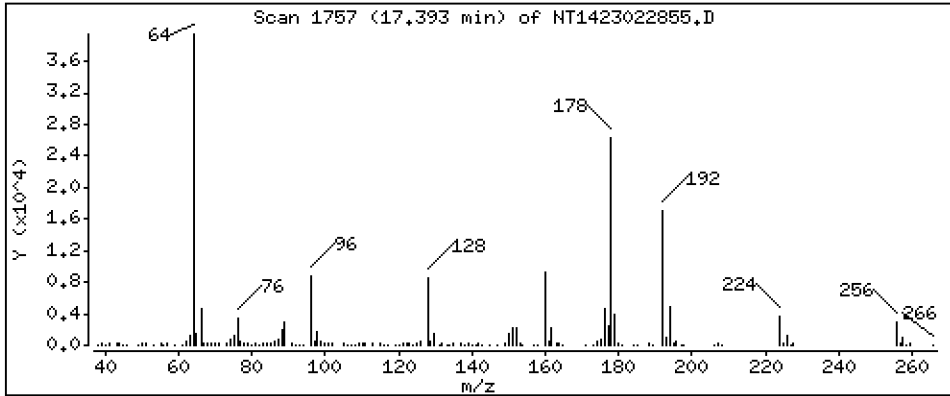
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,617 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

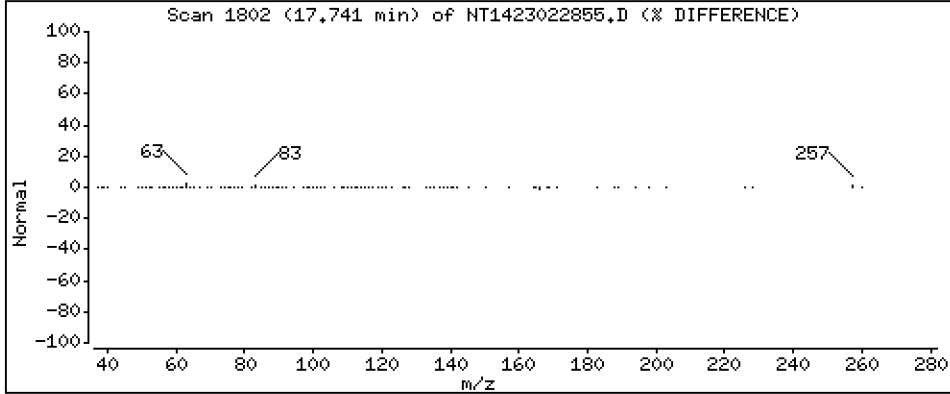
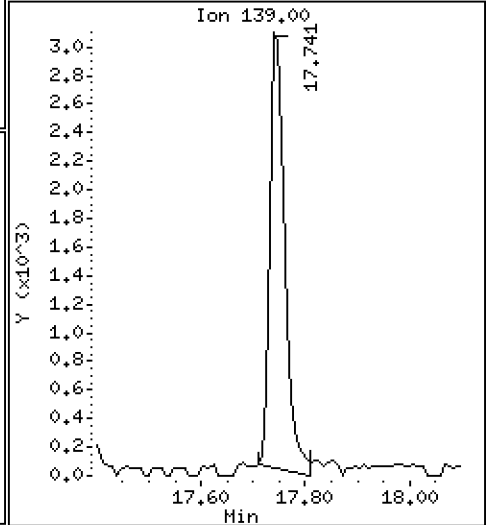
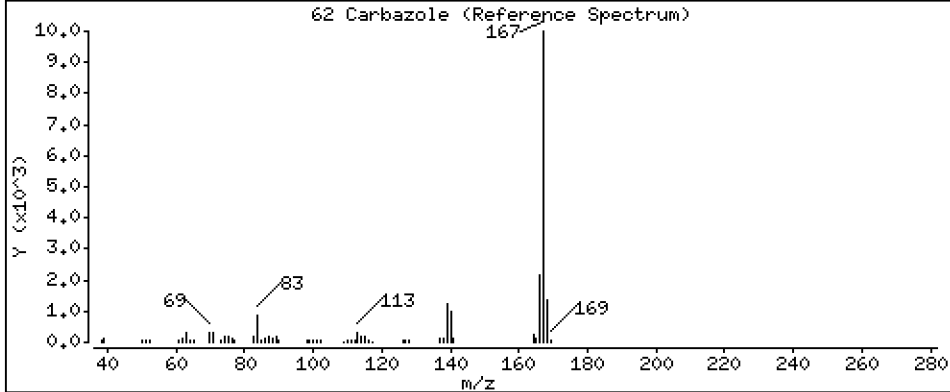
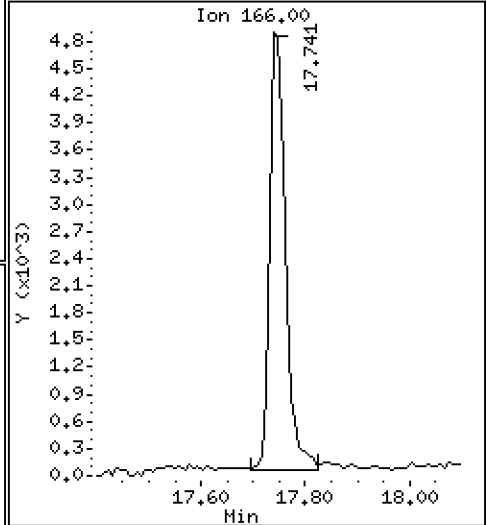
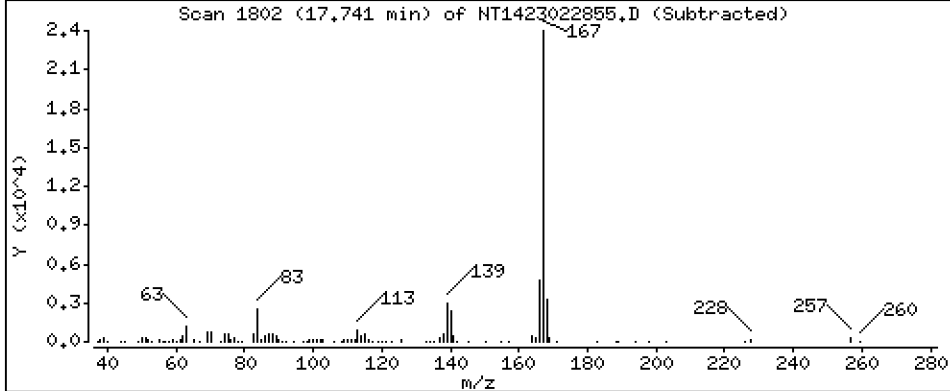
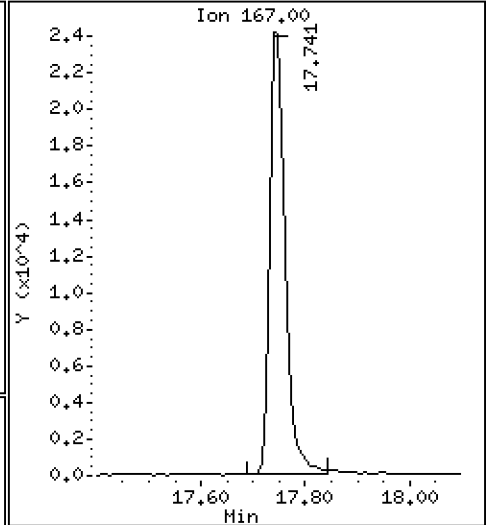
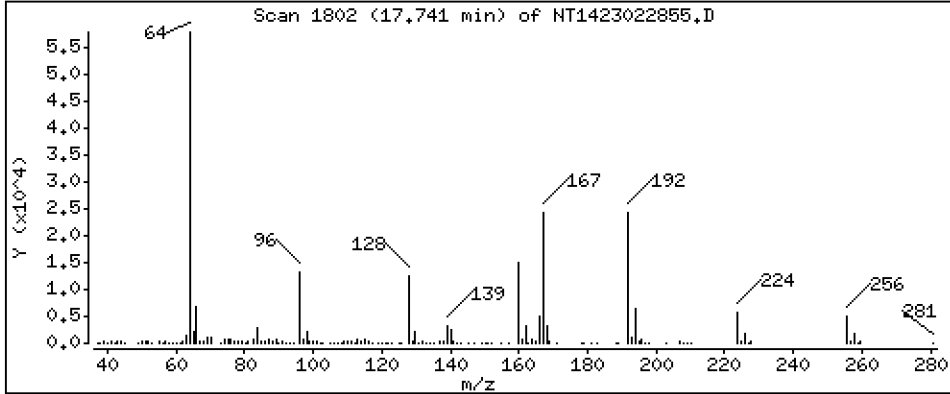
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 5,295 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

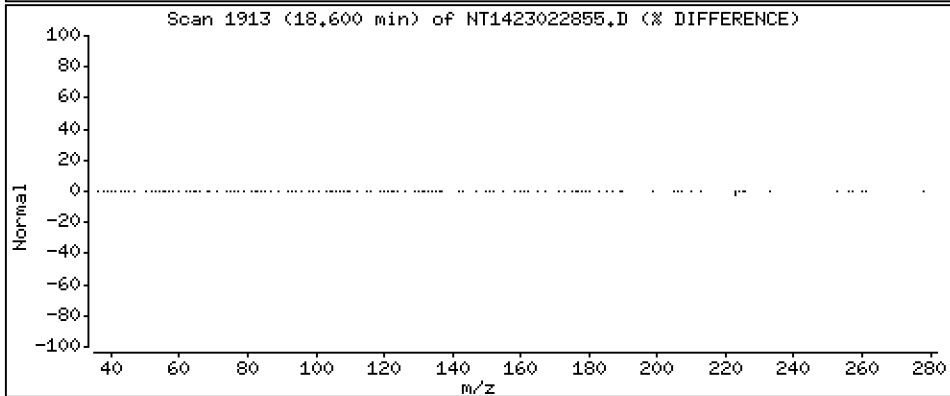
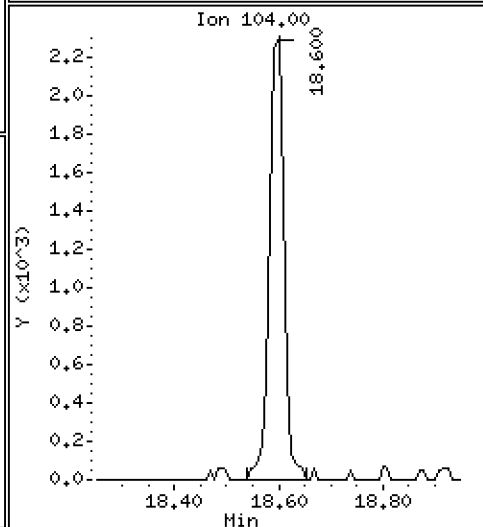
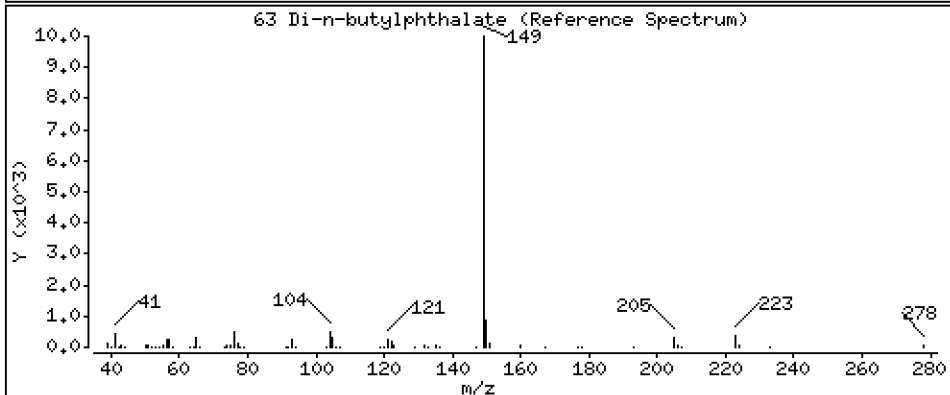
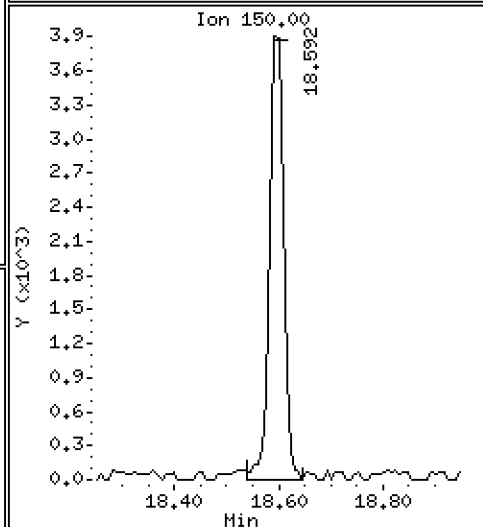
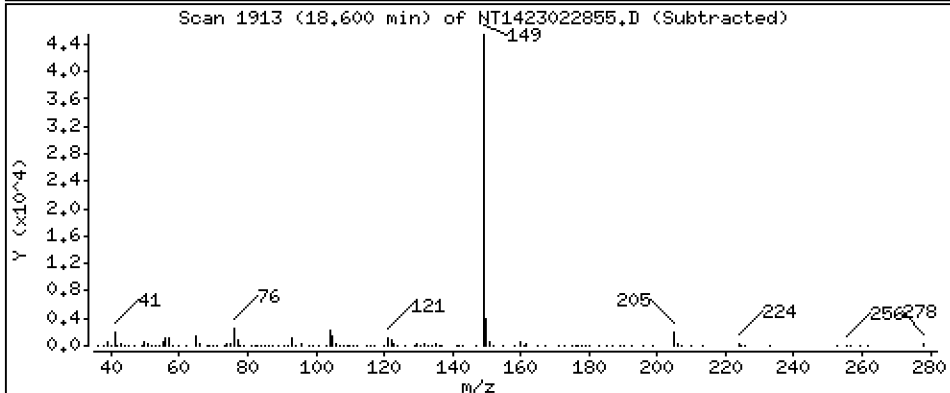
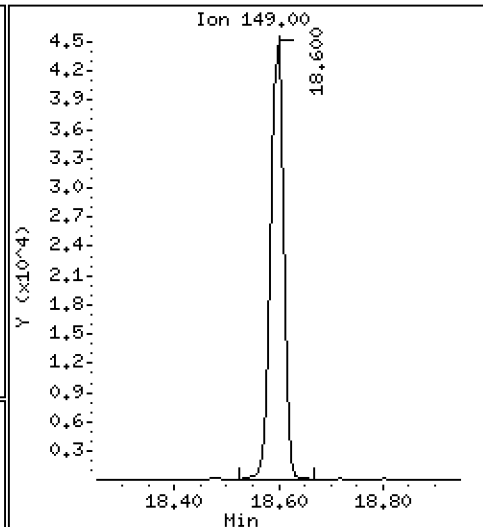
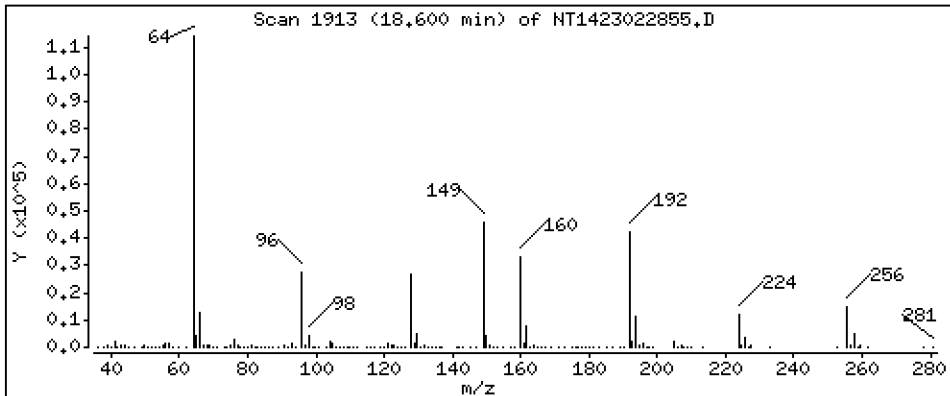
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 6,308 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

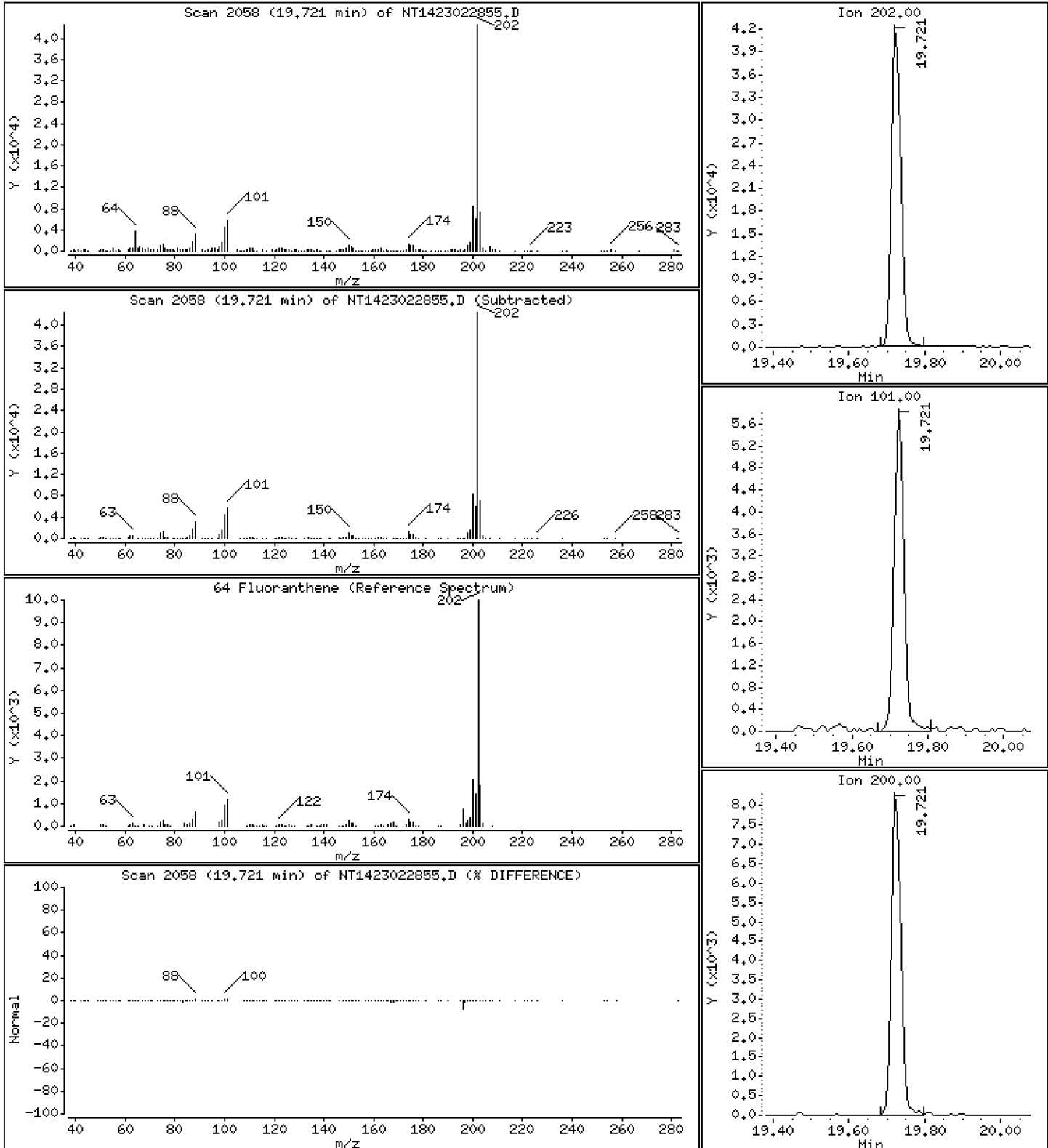
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 5,733 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

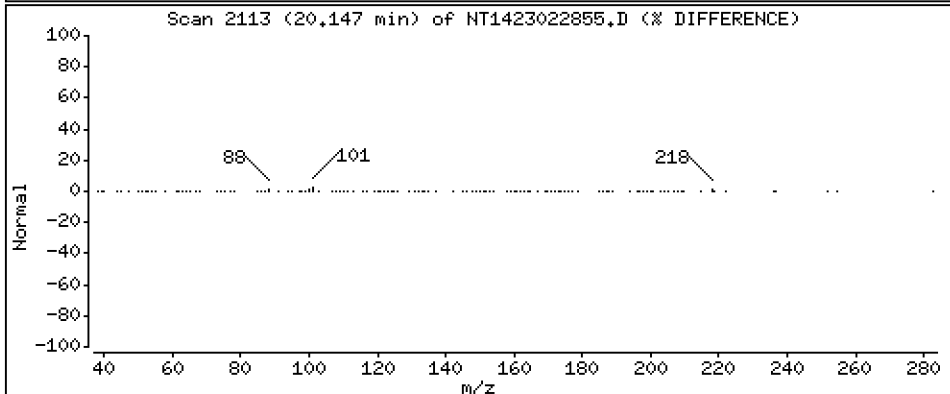
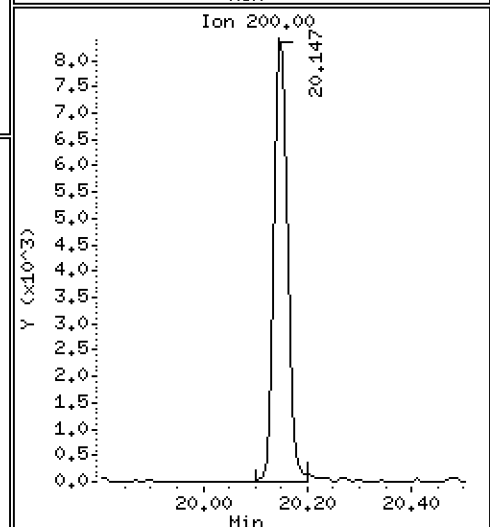
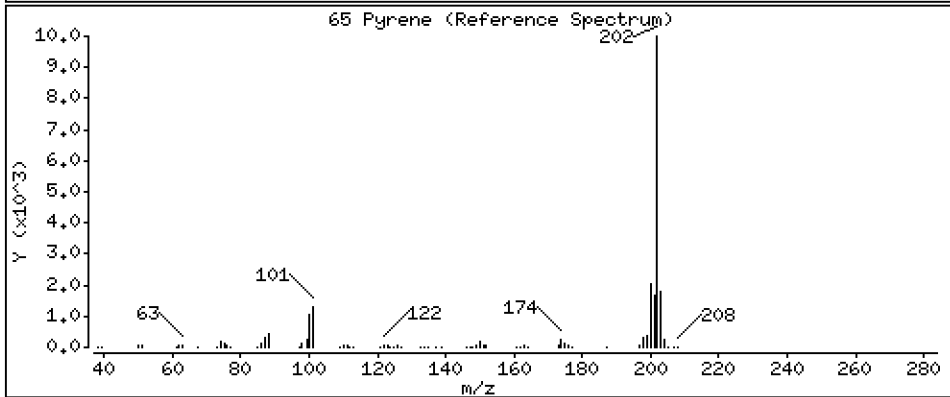
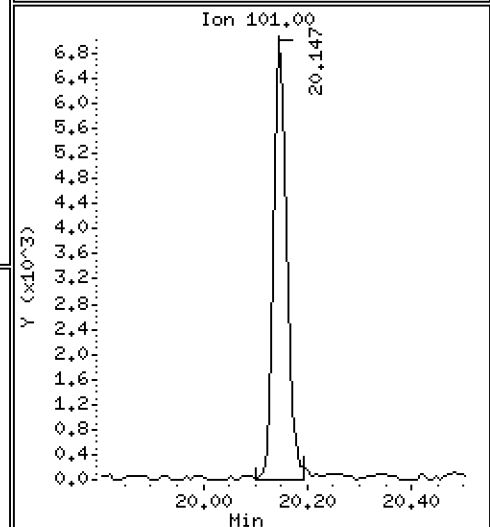
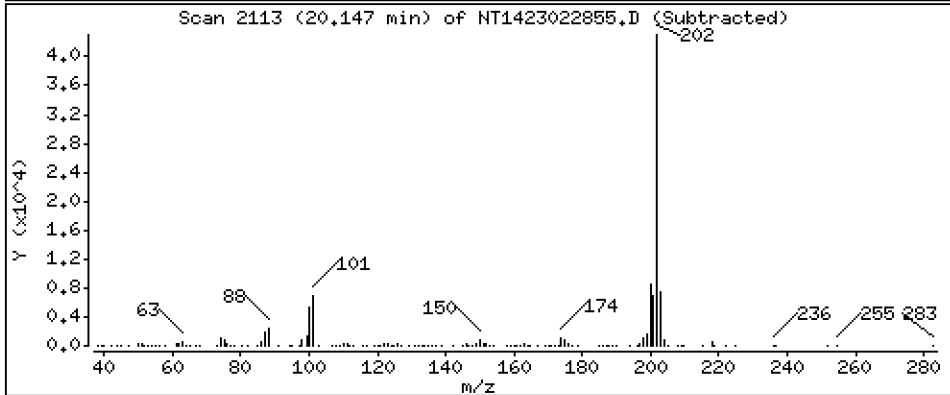
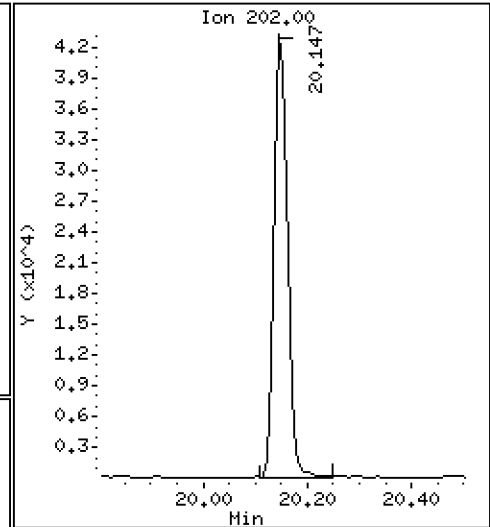
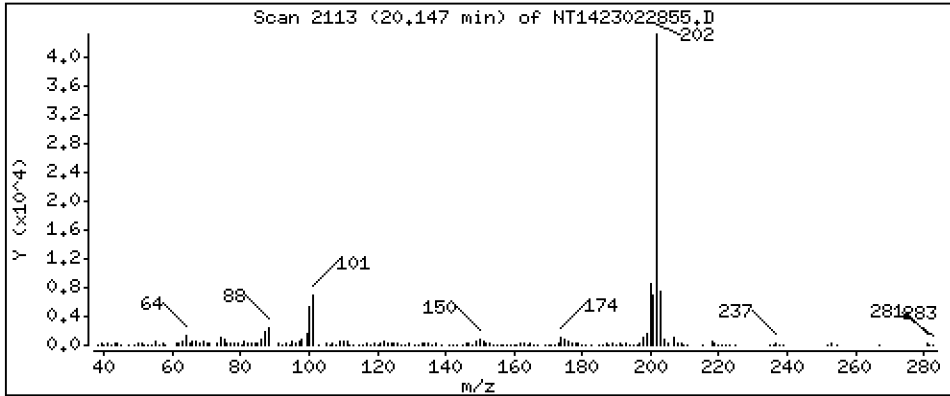
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 5,742 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

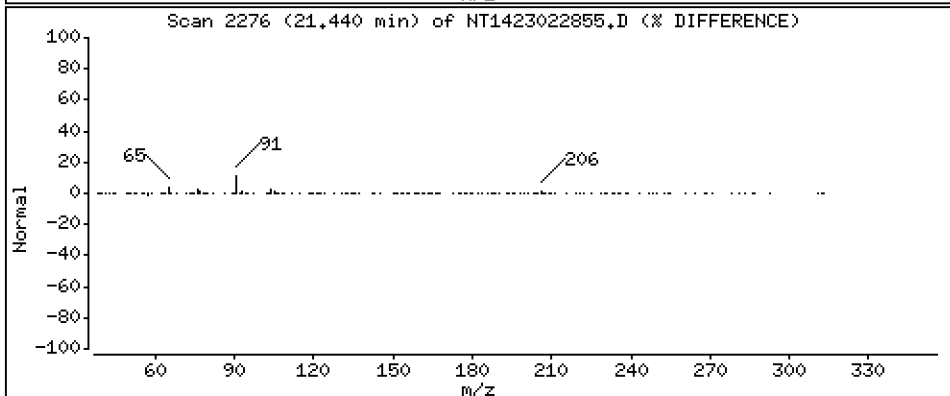
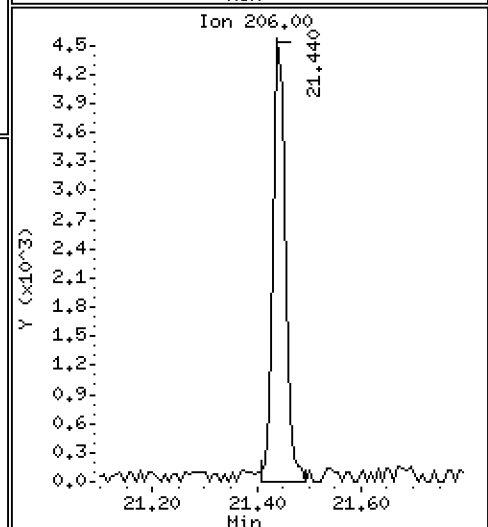
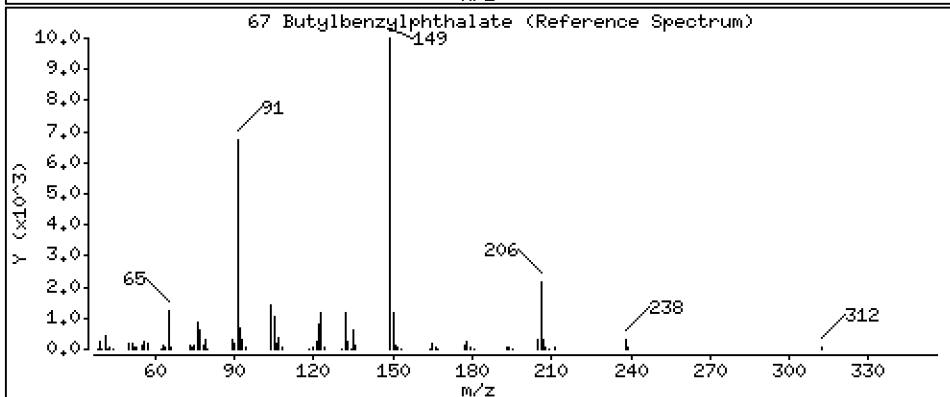
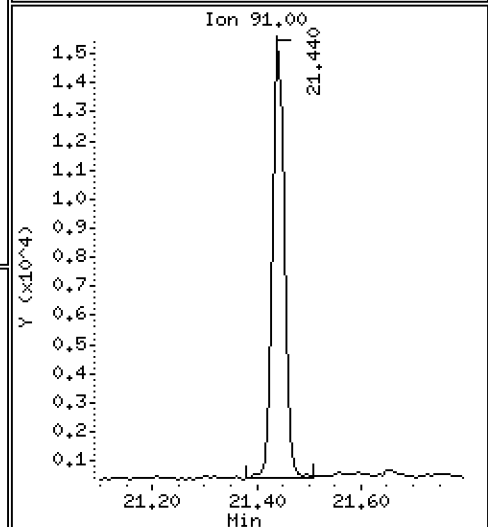
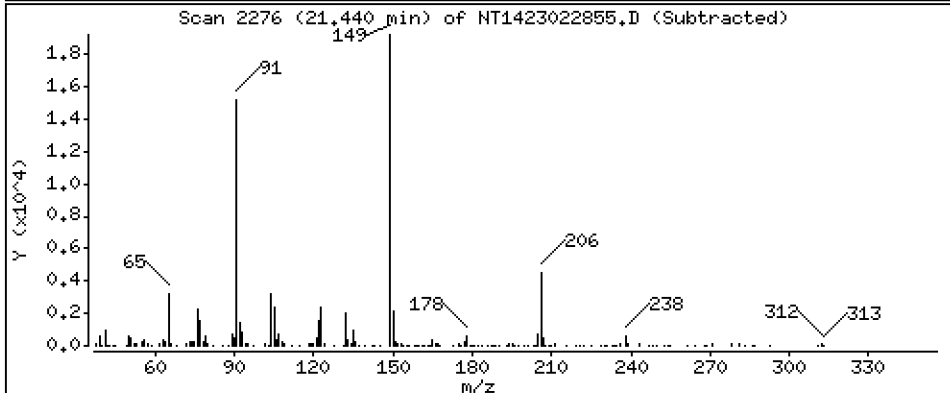
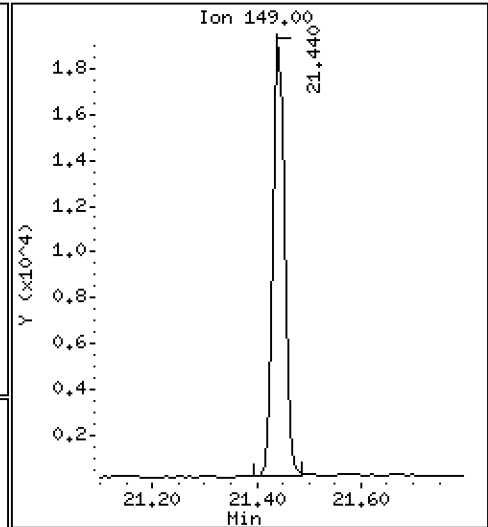
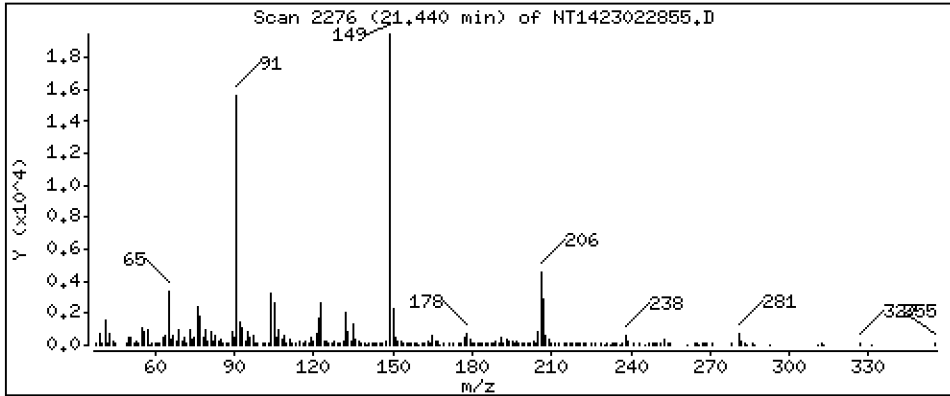
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 6,081 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

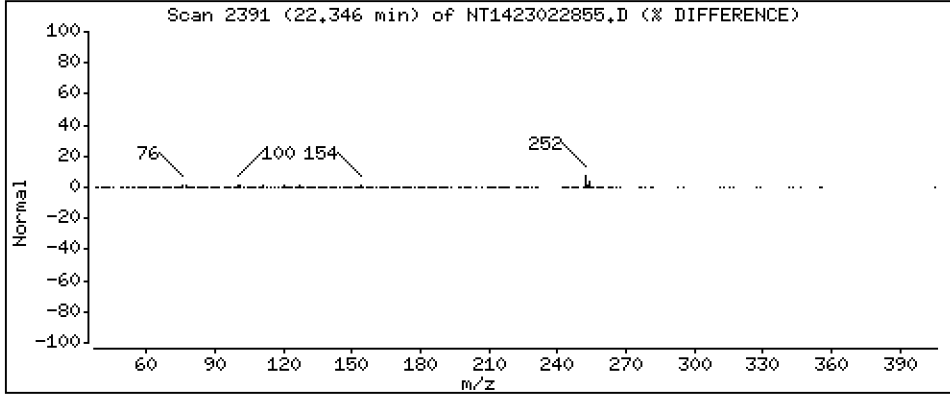
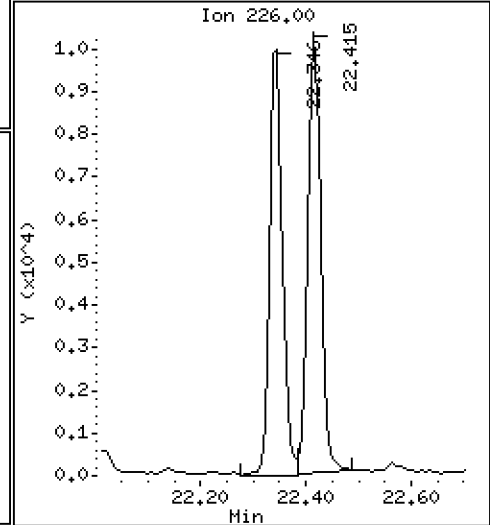
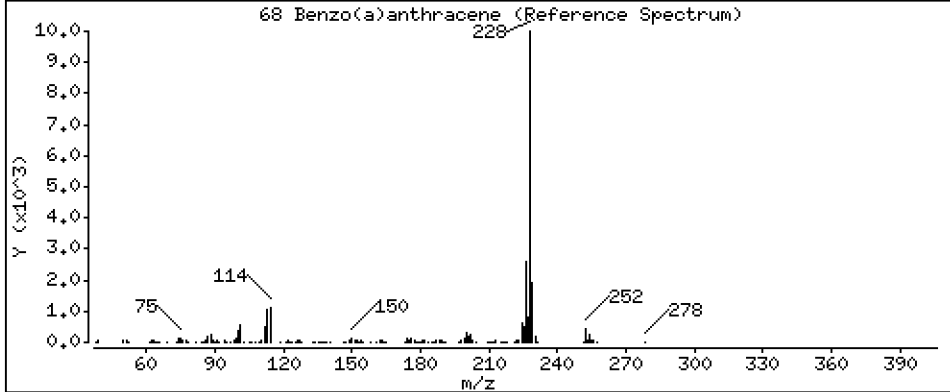
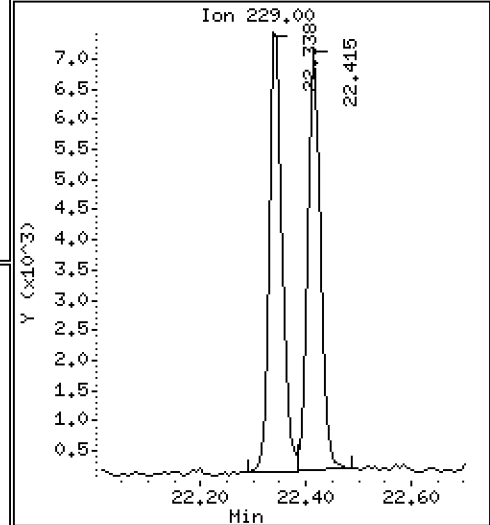
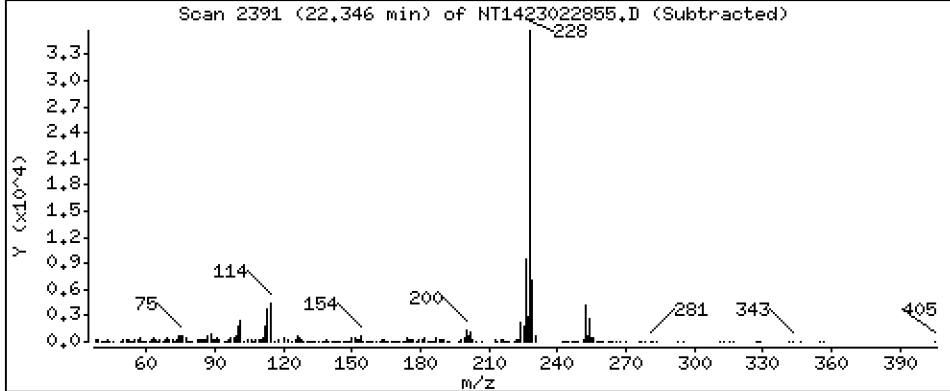
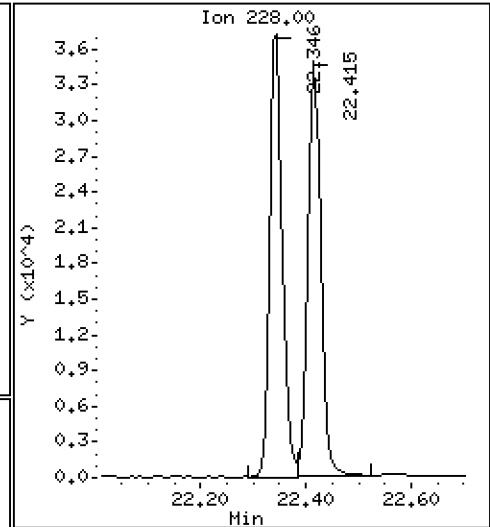
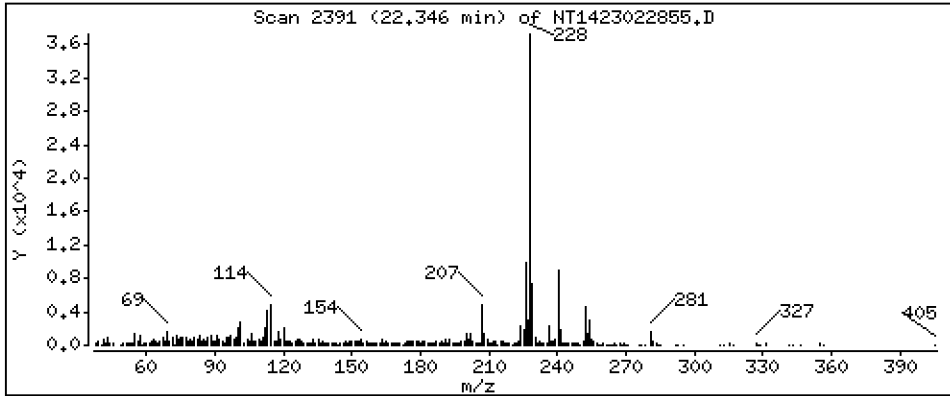
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 5,747 ug/mL





Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

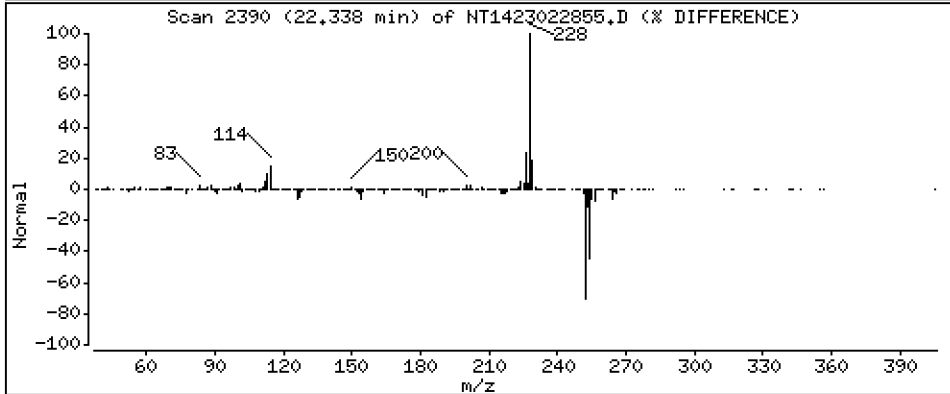
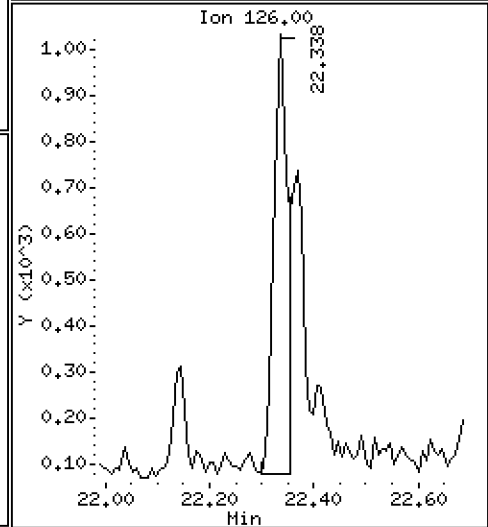
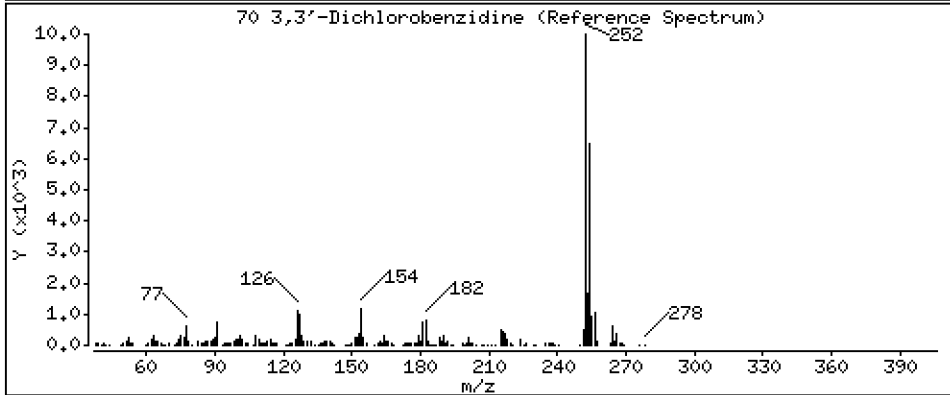
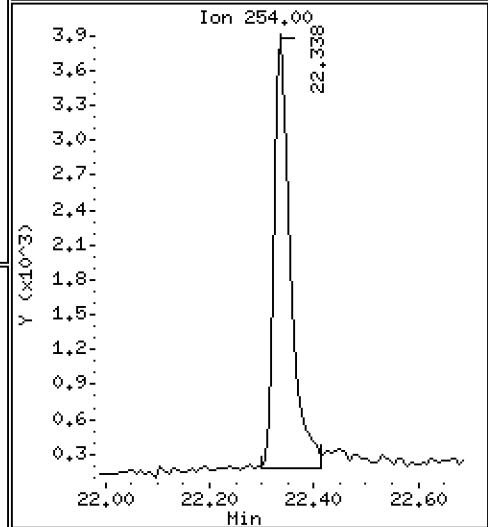
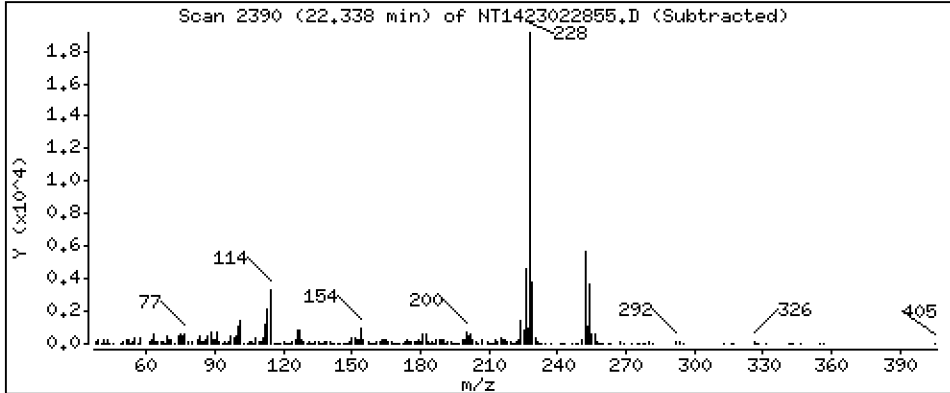
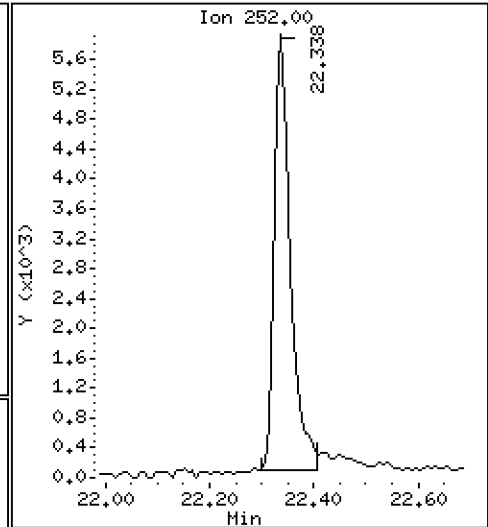
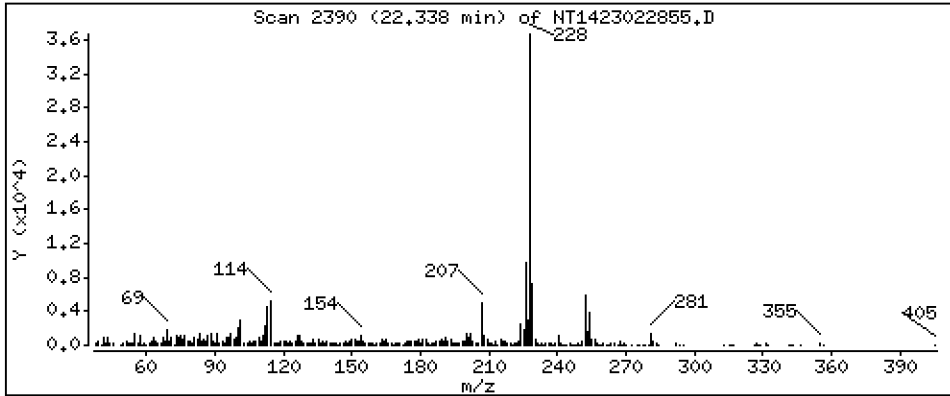
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 3,936 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

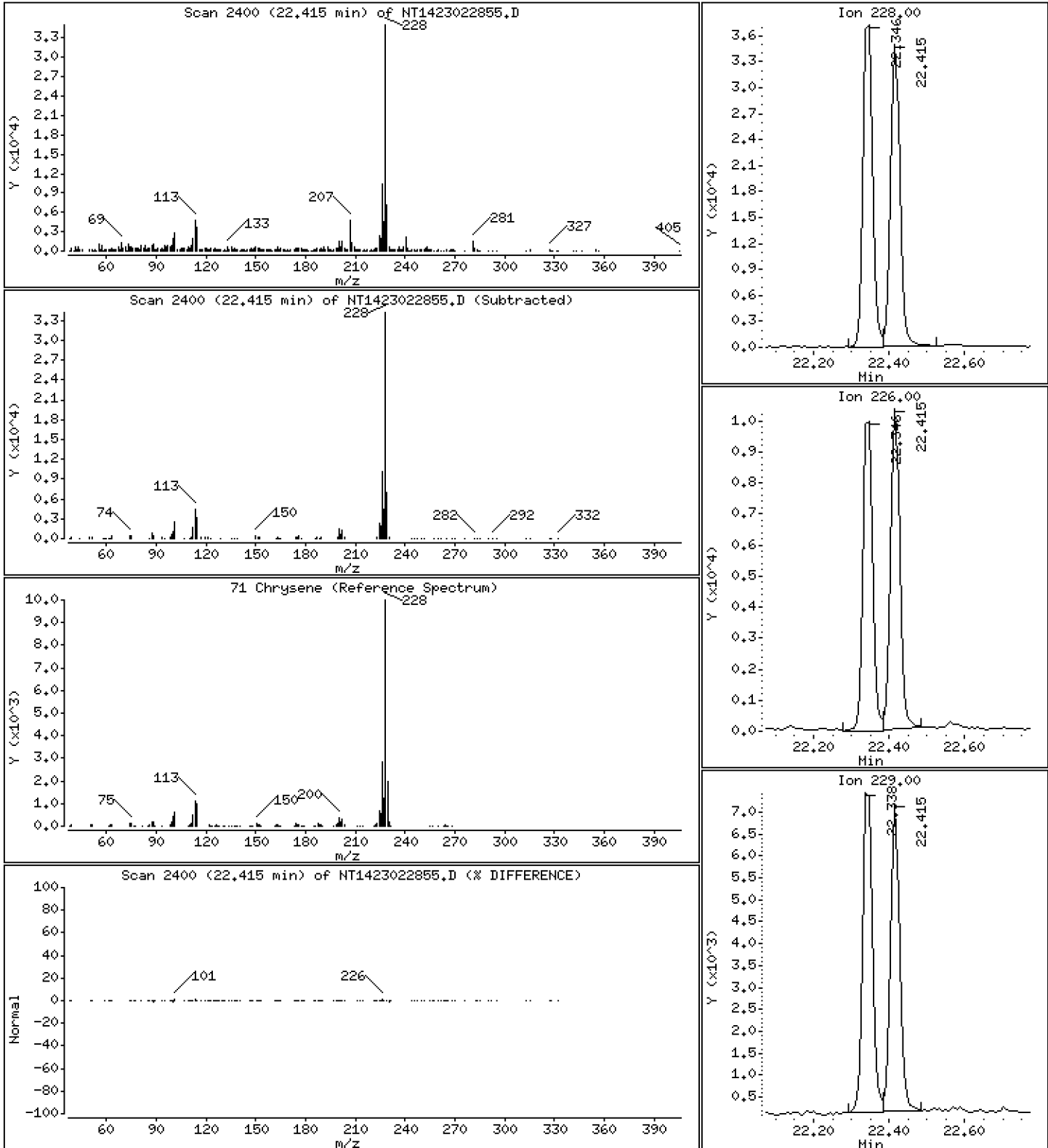
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 5,495 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

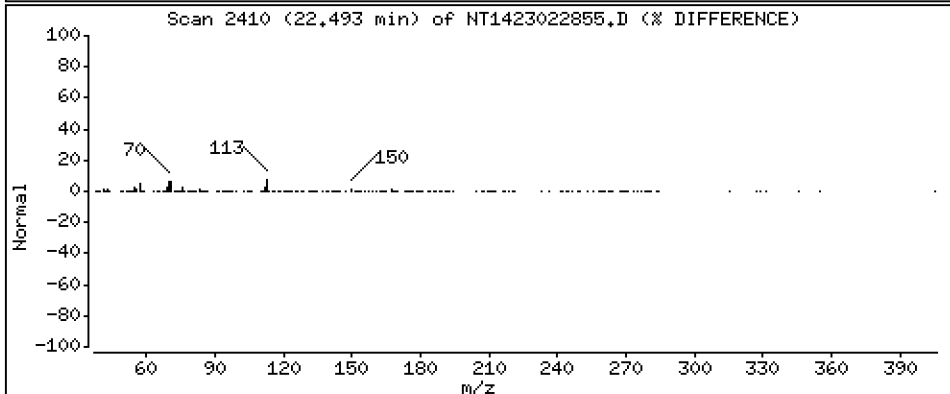
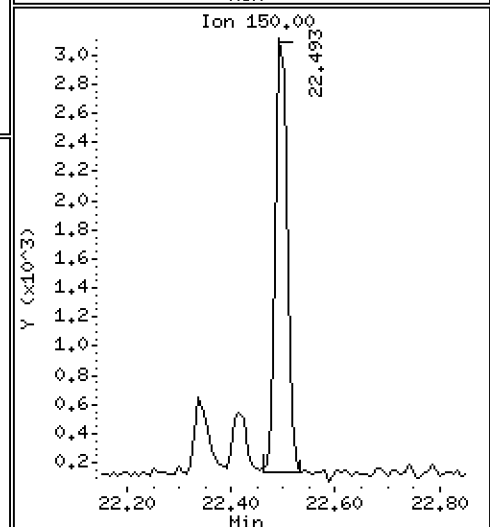
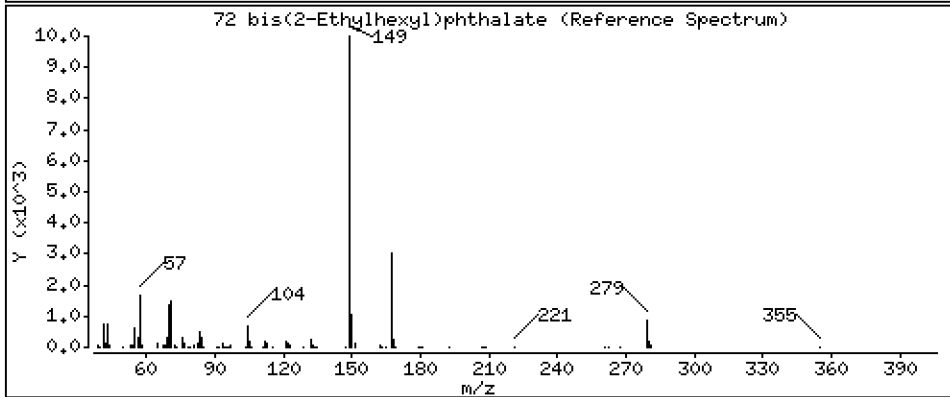
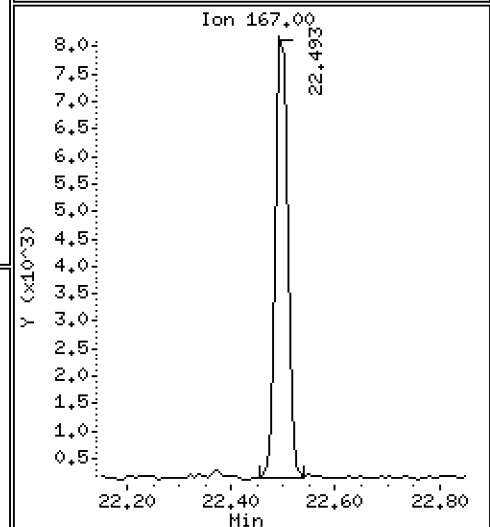
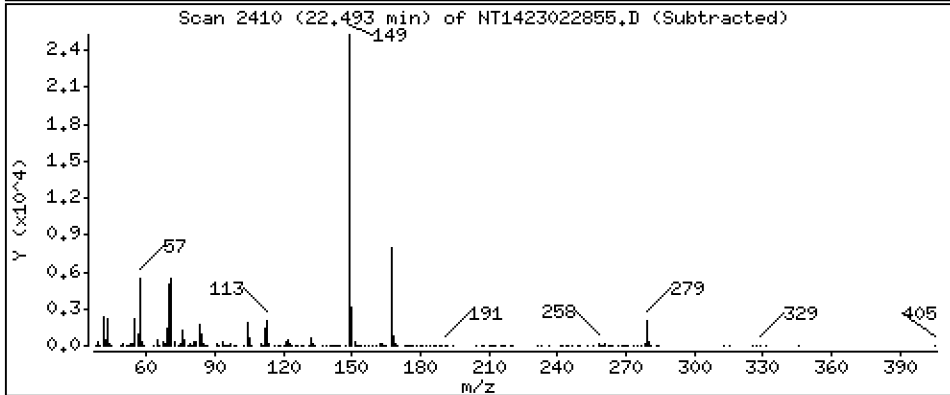
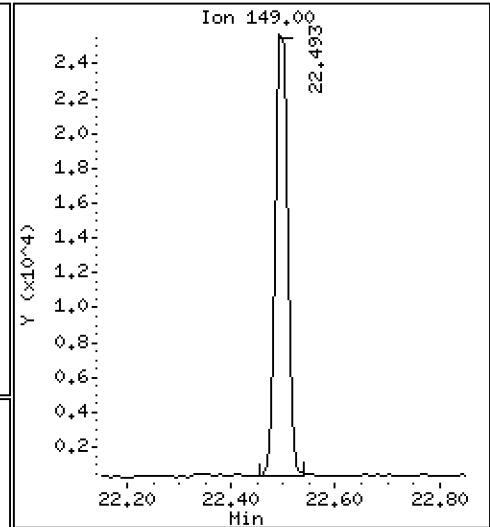
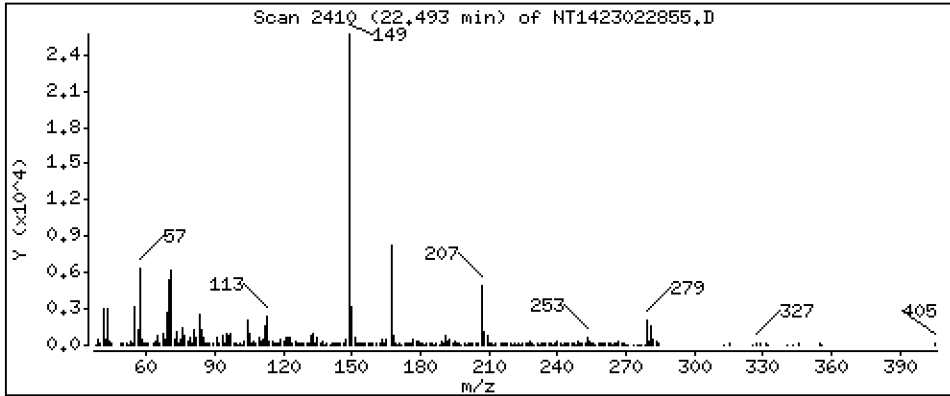
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,248 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

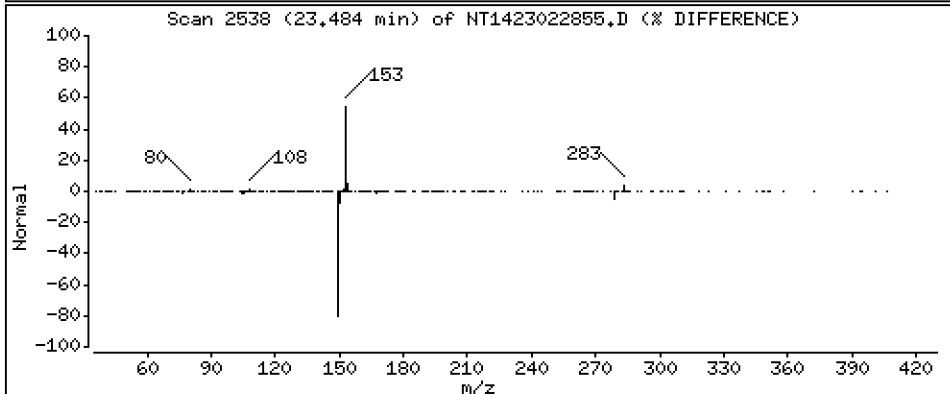
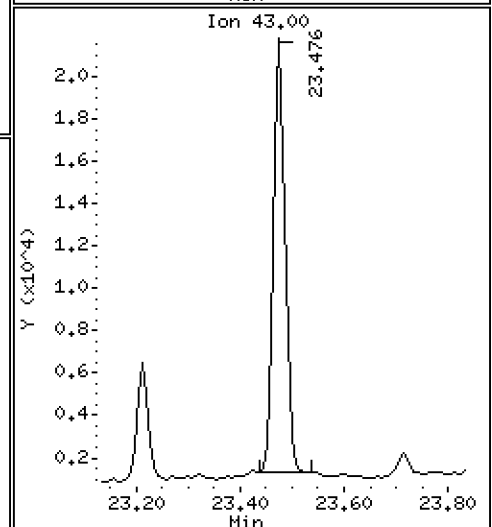
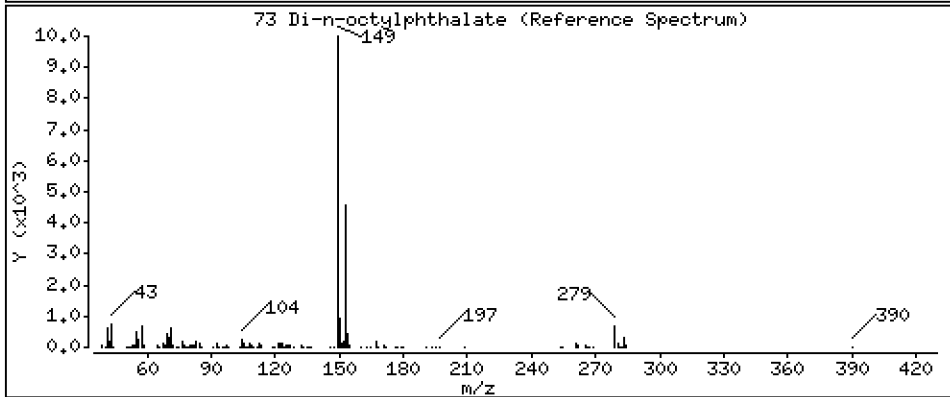
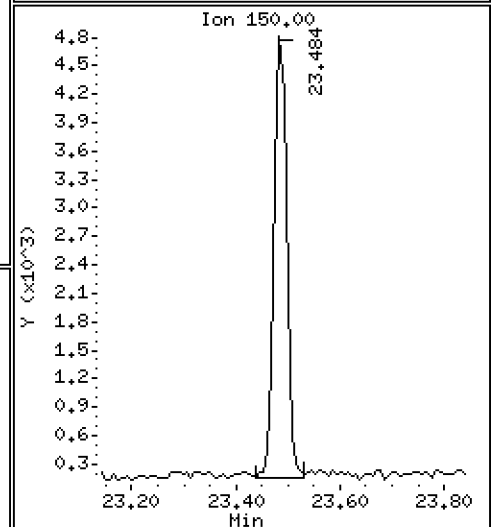
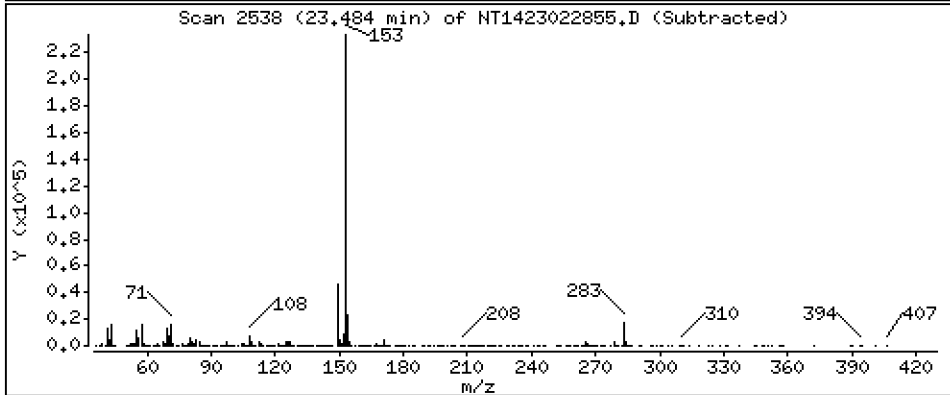
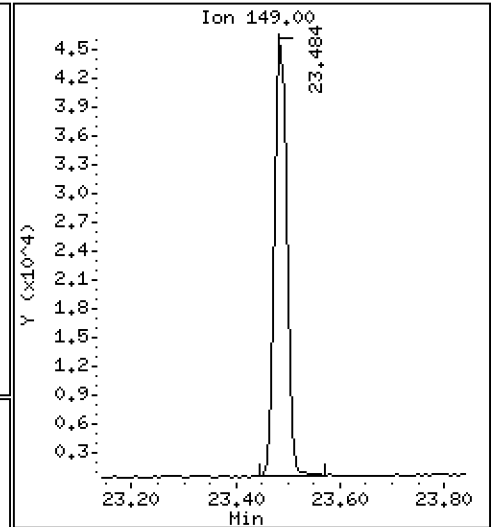
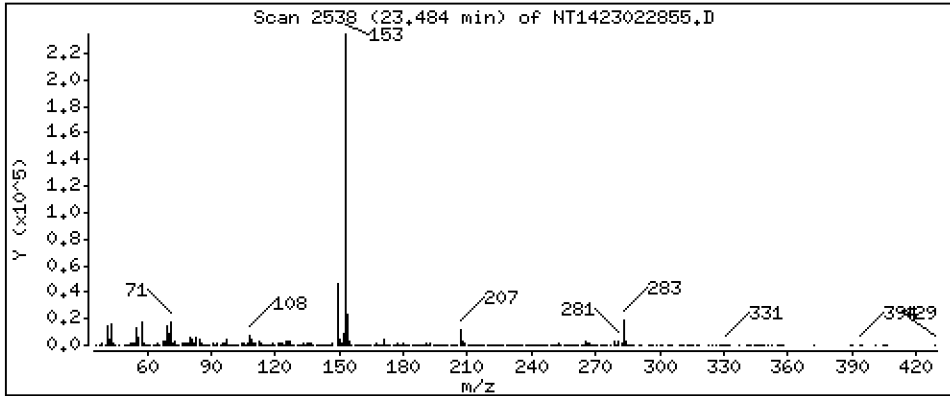
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,567 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

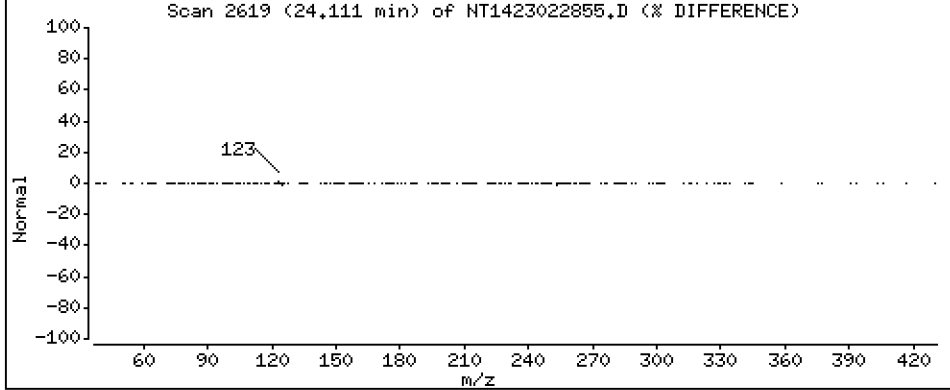
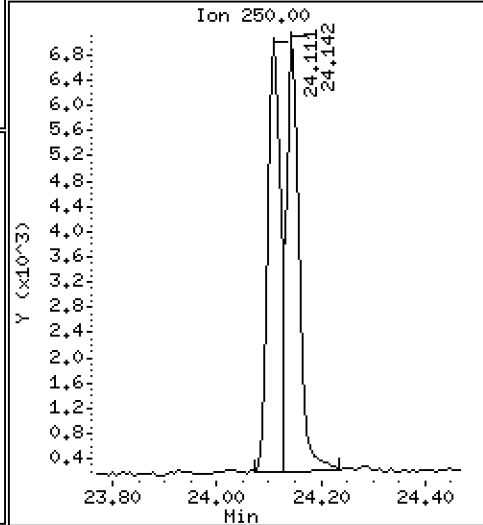
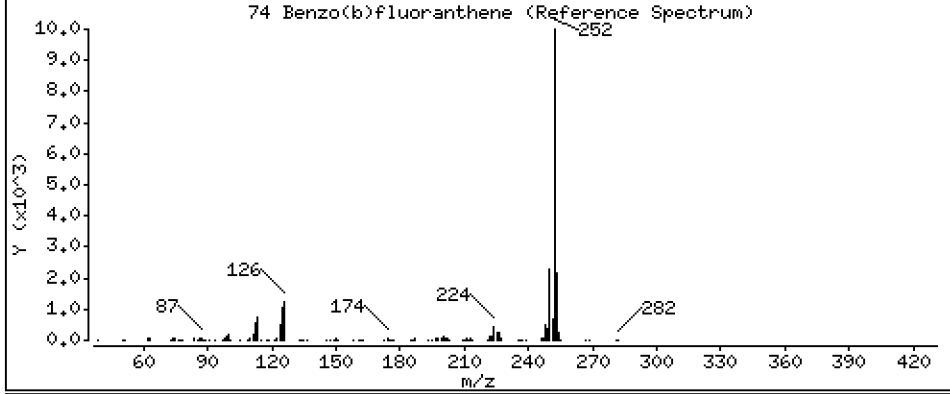
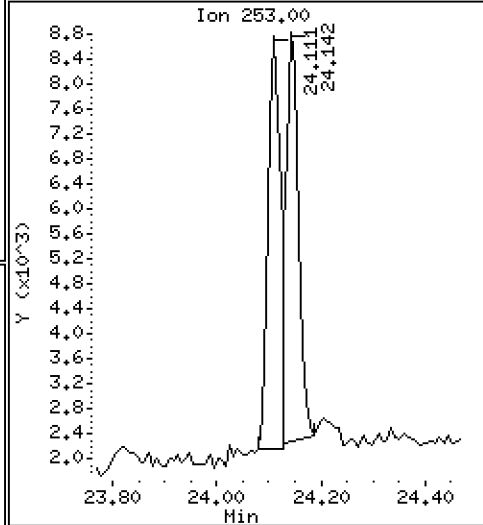
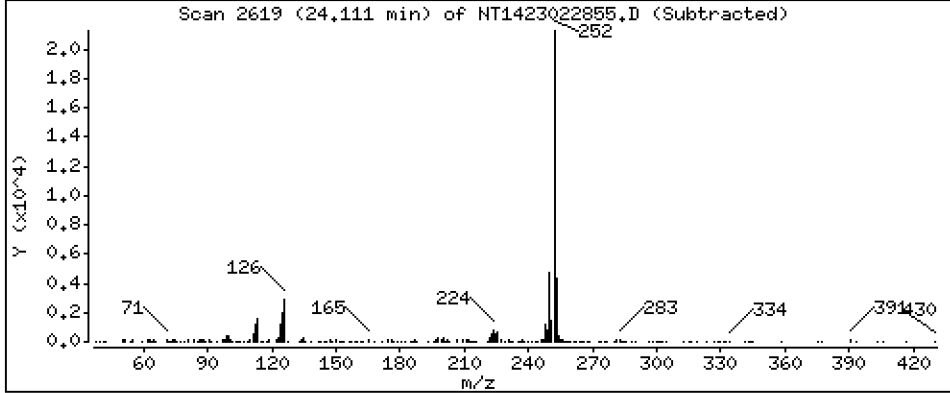
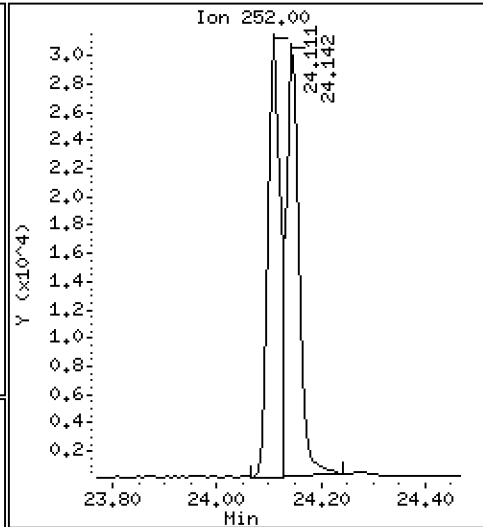
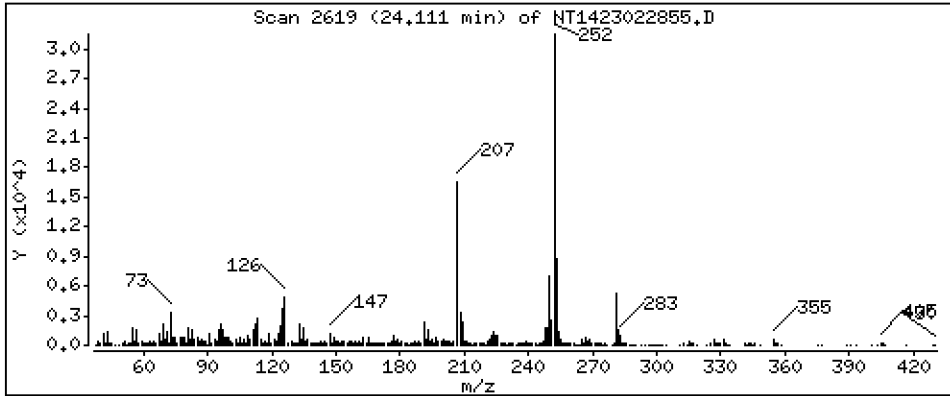
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 6,737 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

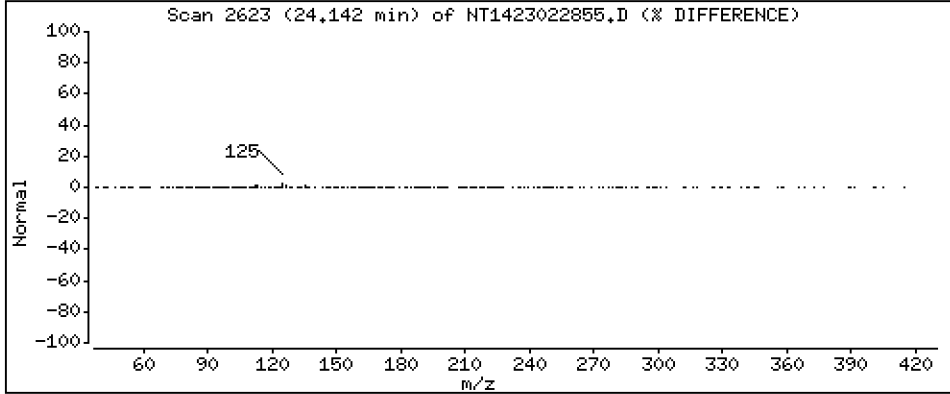
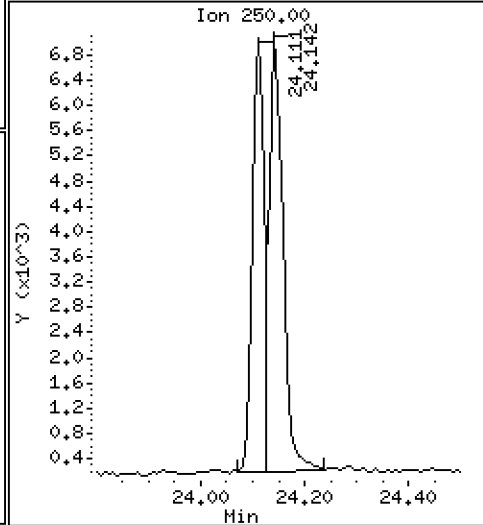
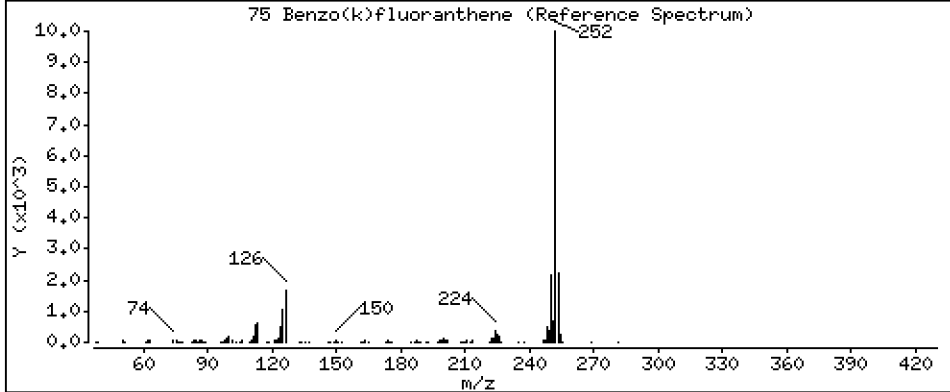
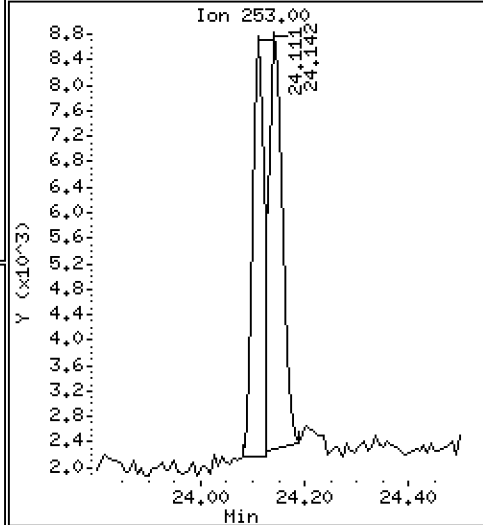
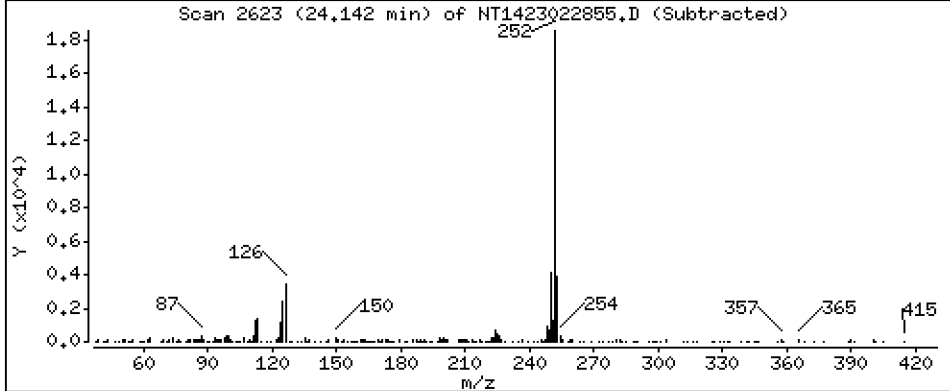
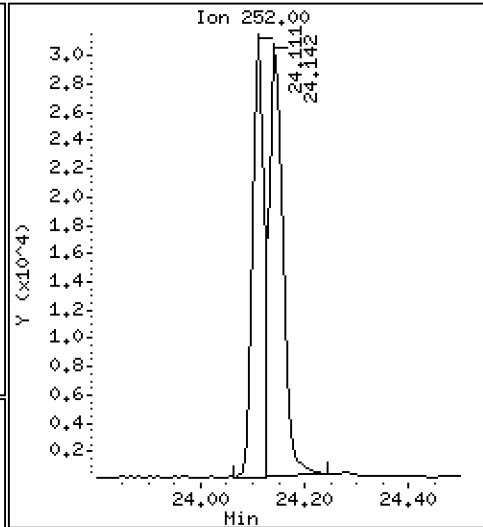
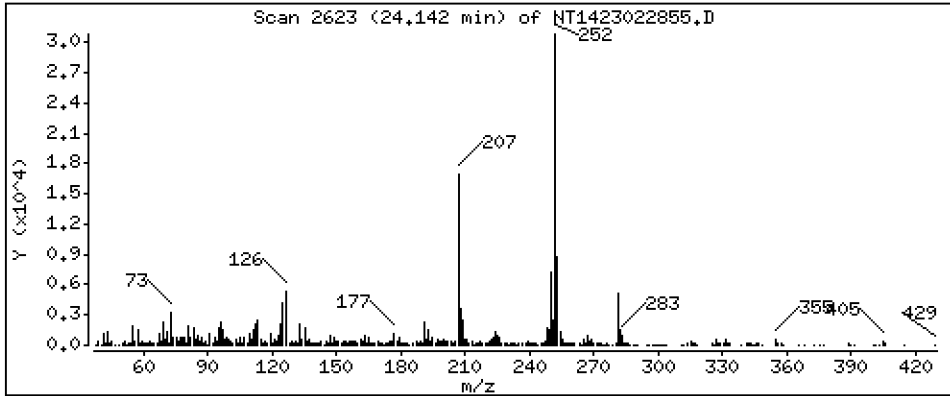
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 7,140 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

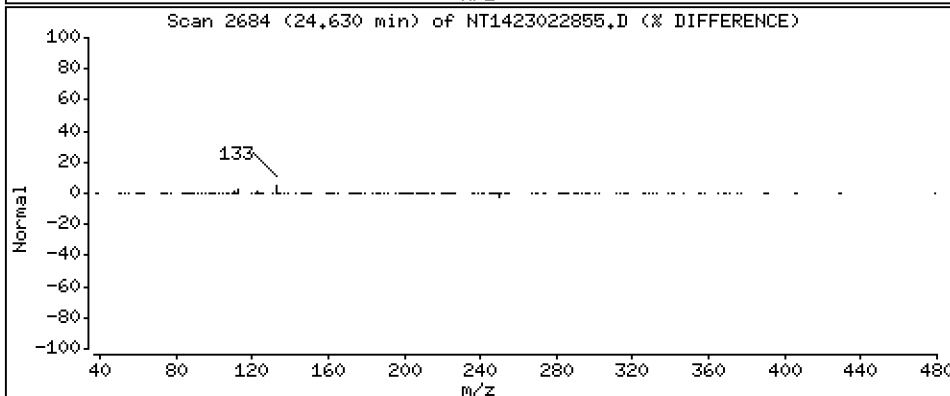
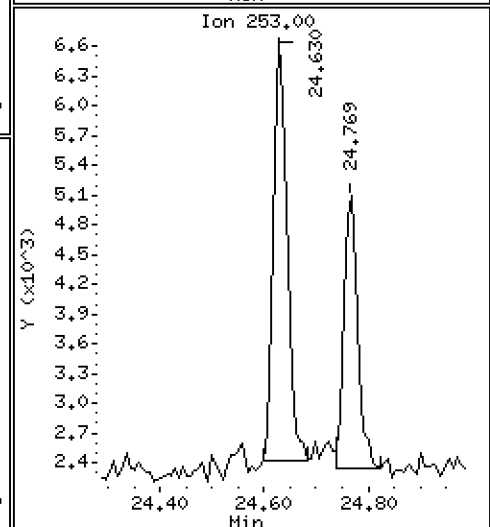
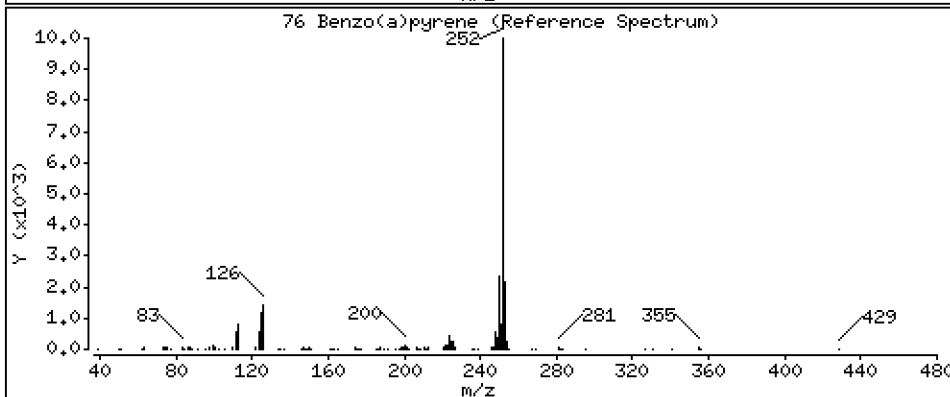
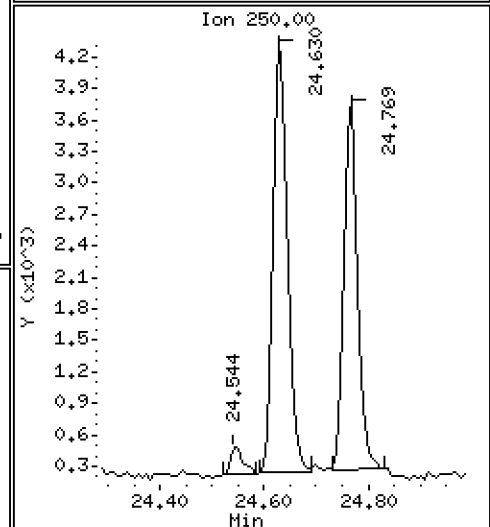
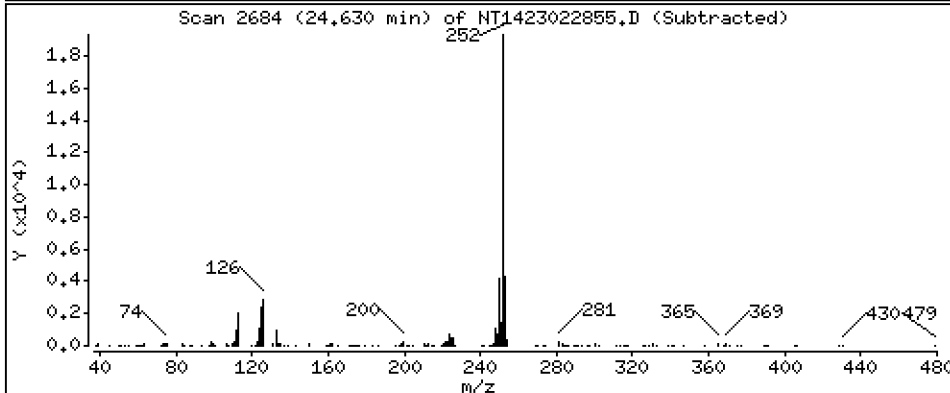
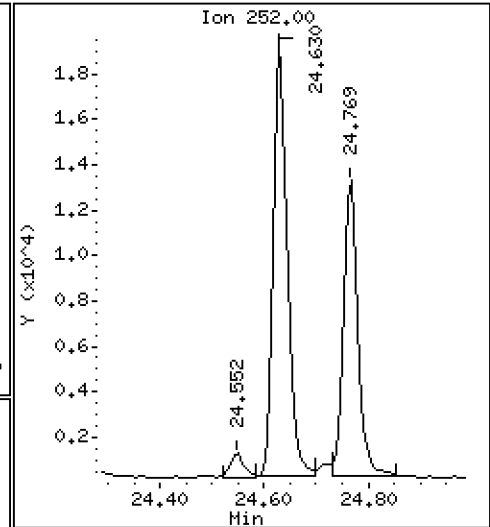
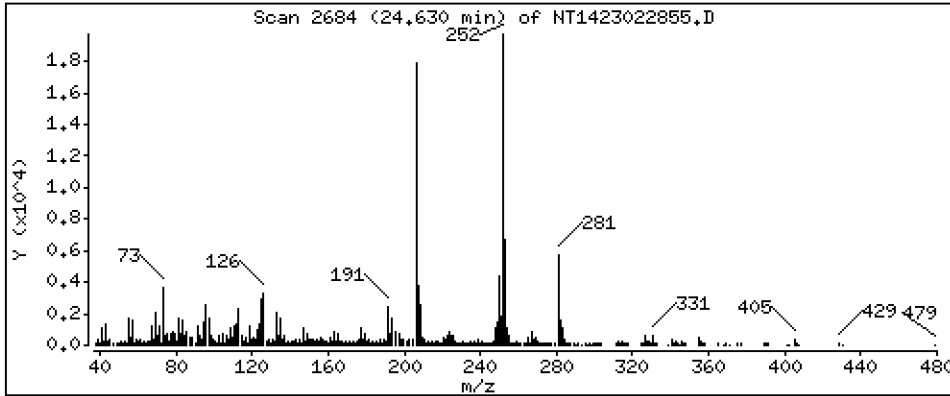
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 5,364 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

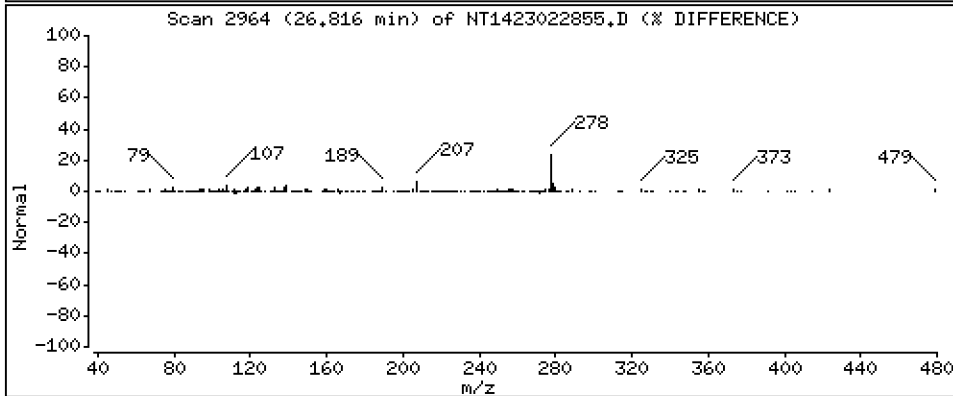
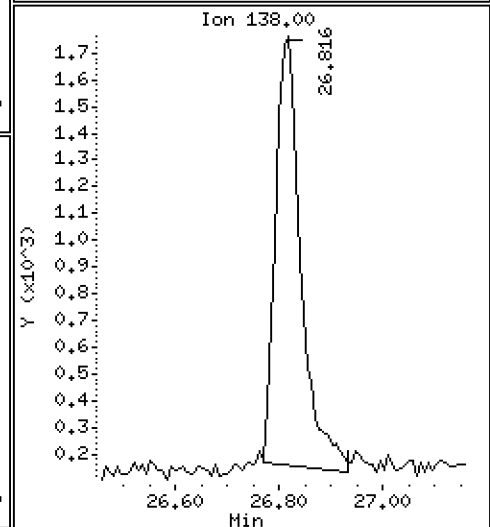
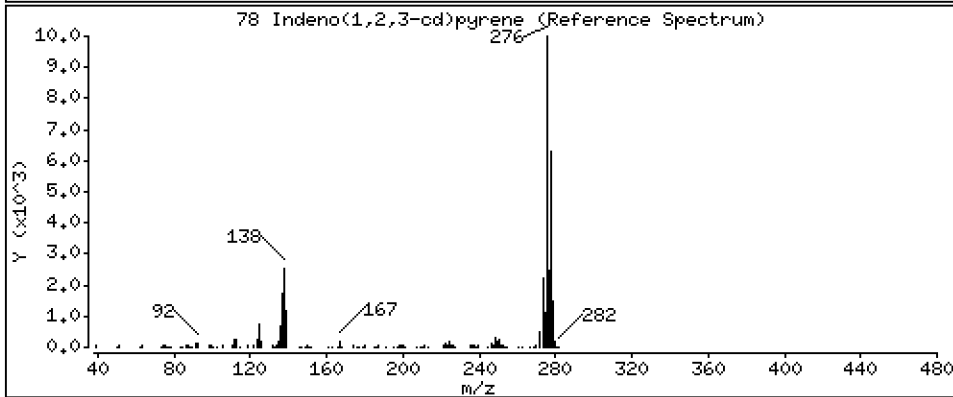
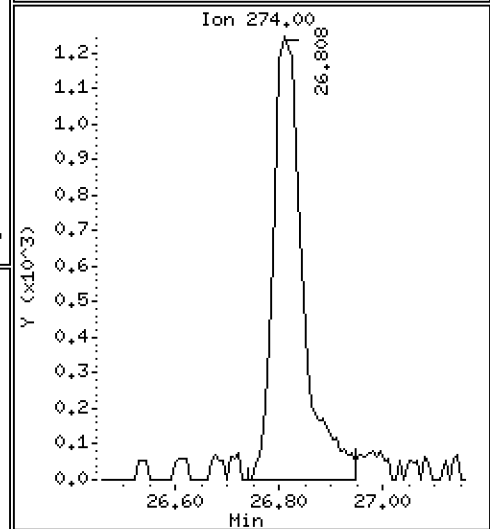
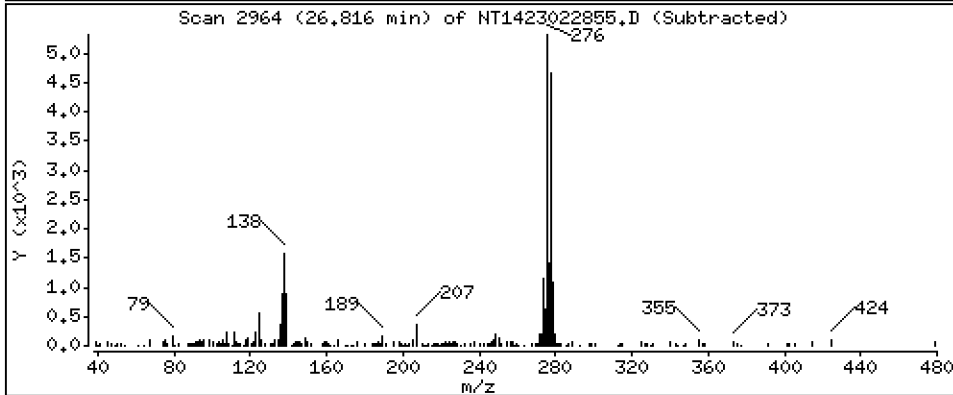
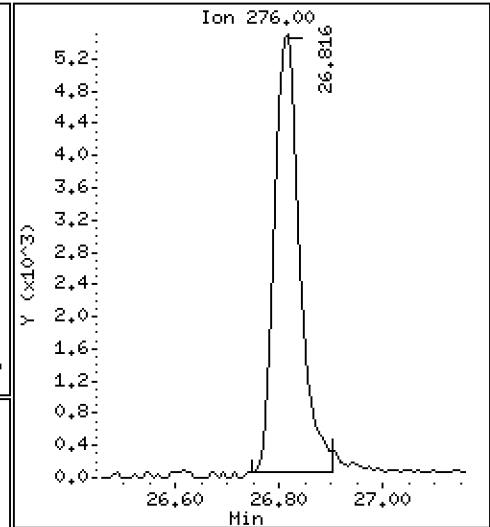
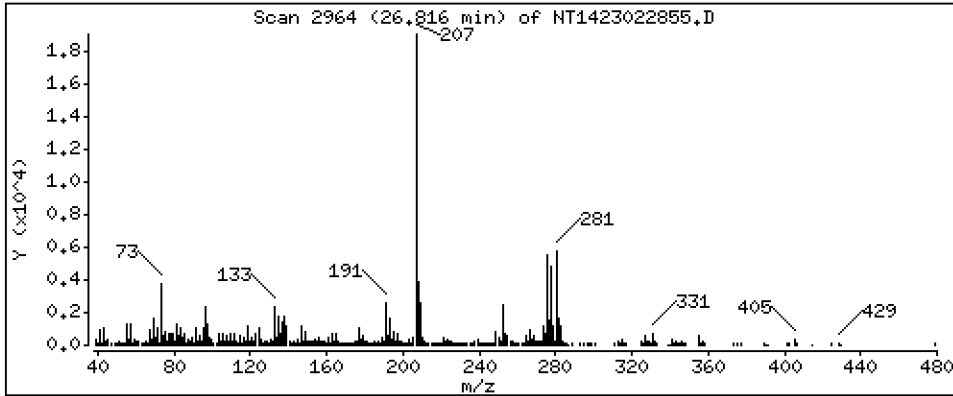
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 2,250 ug/mL





Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

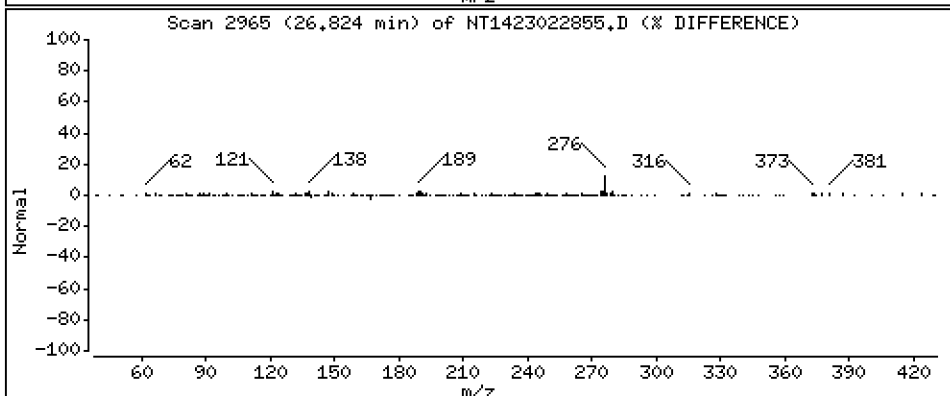
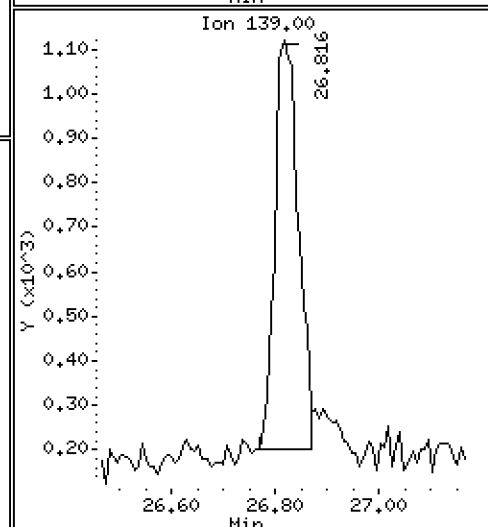
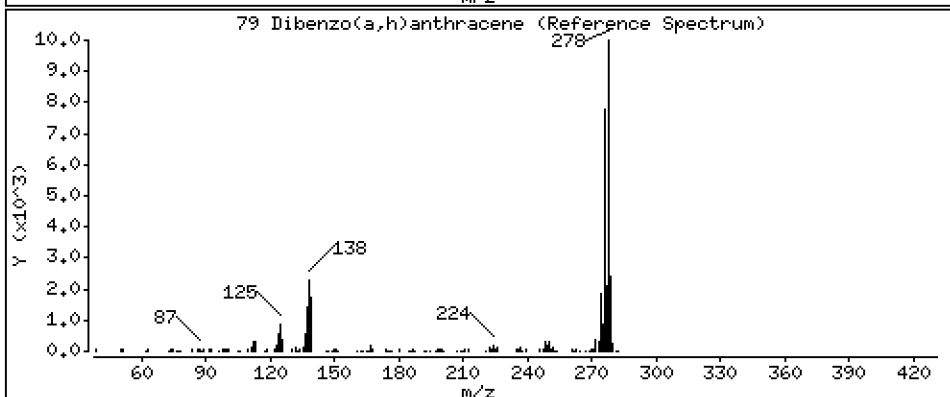
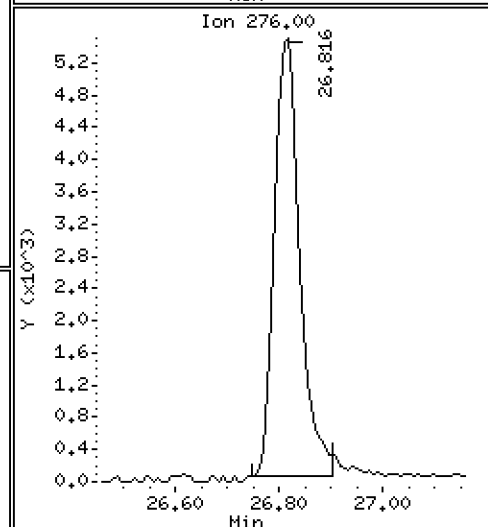
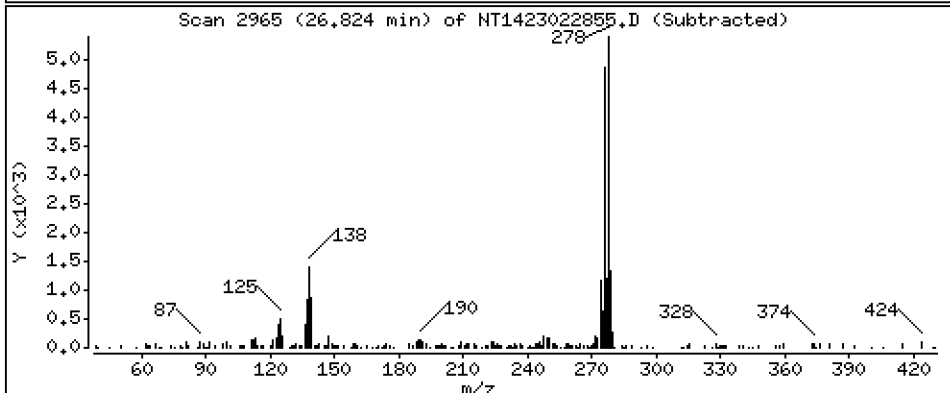
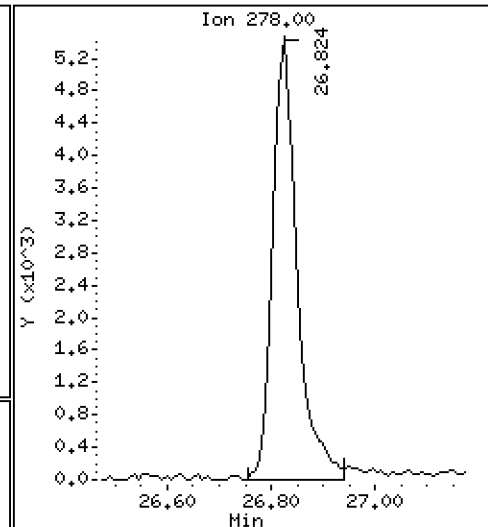
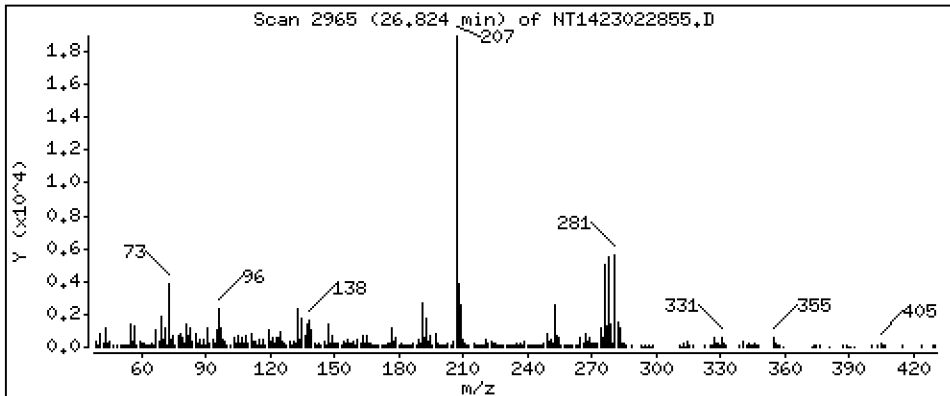
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 2,546 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

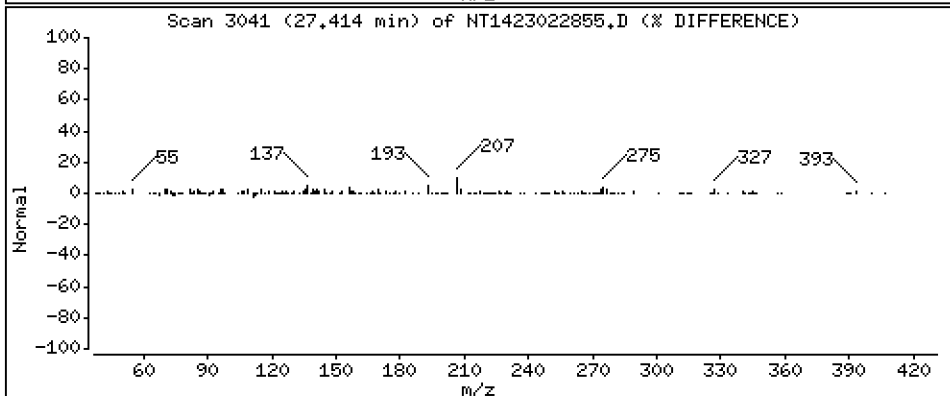
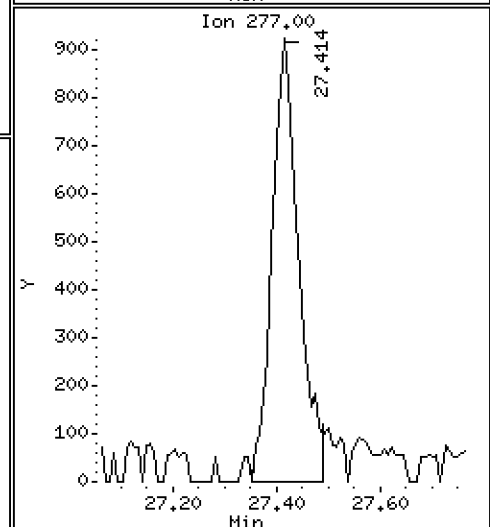
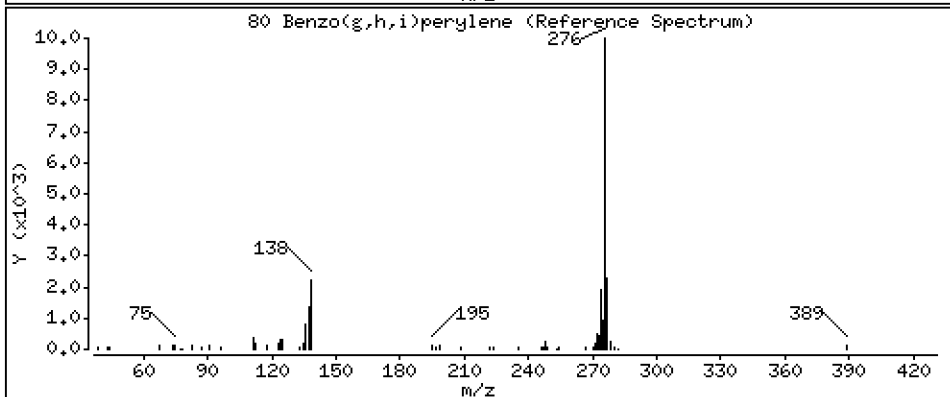
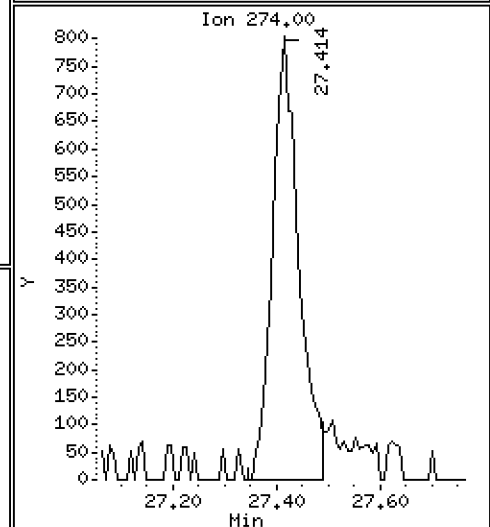
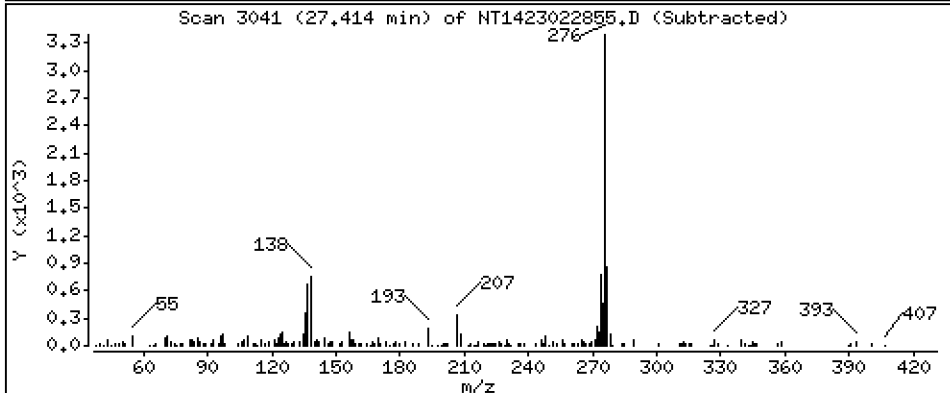
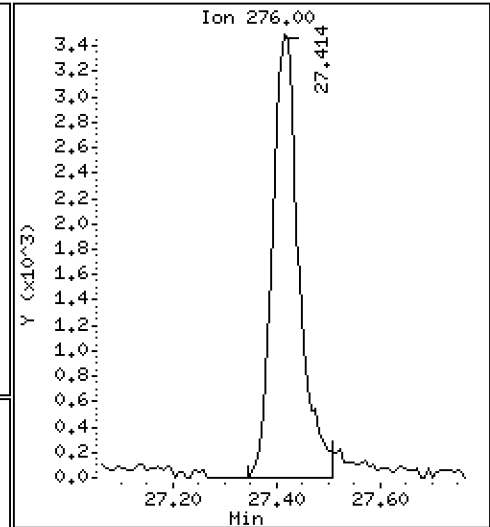
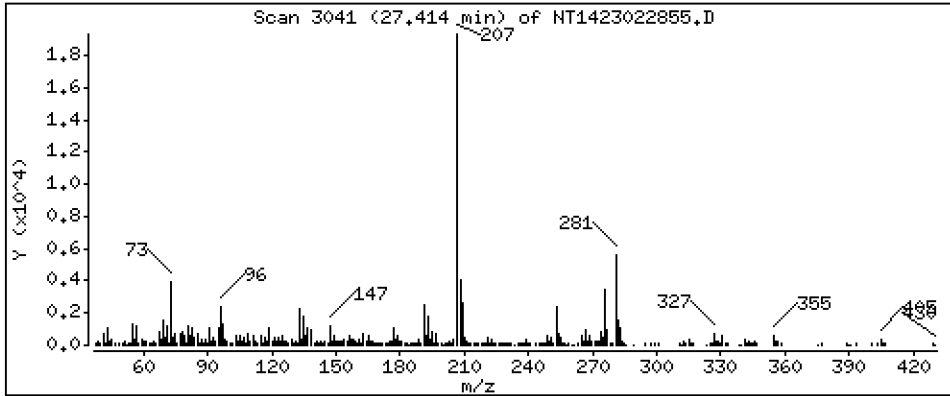
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 1,736 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

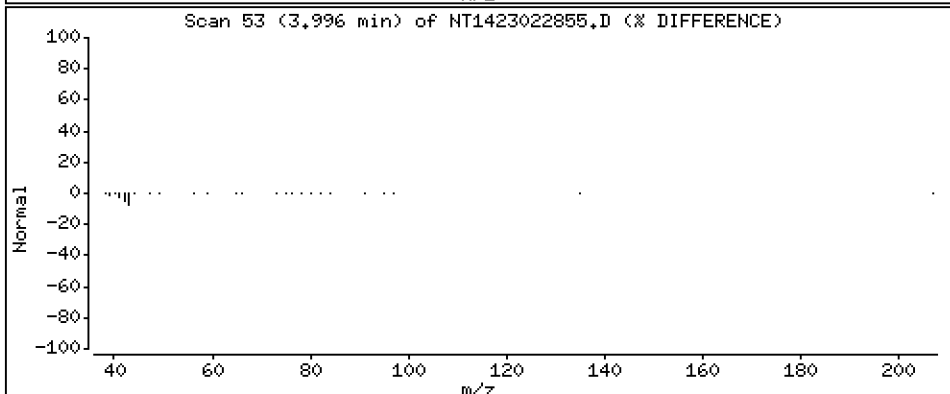
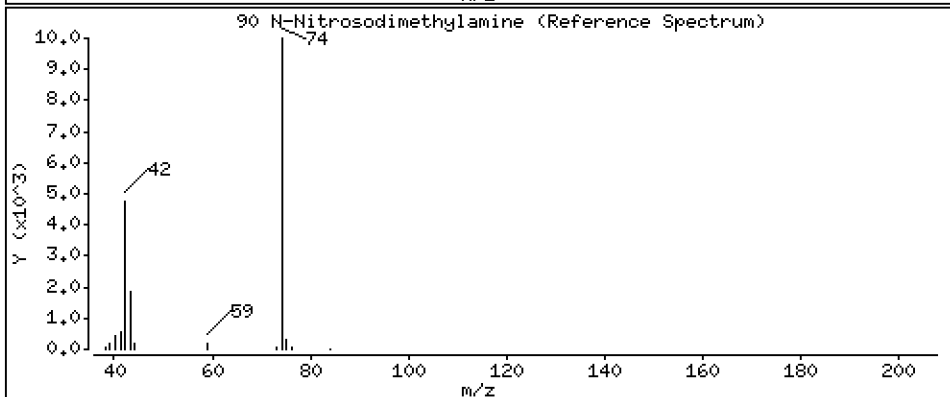
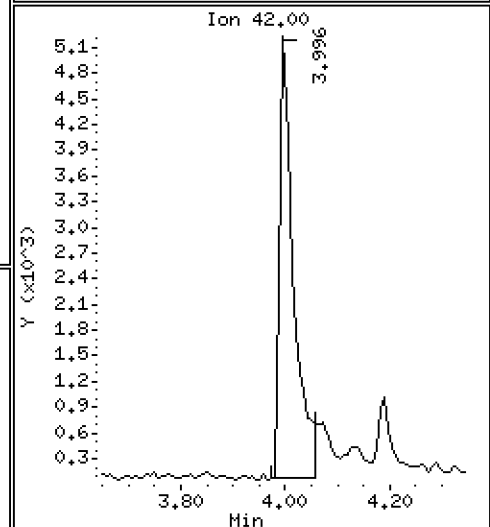
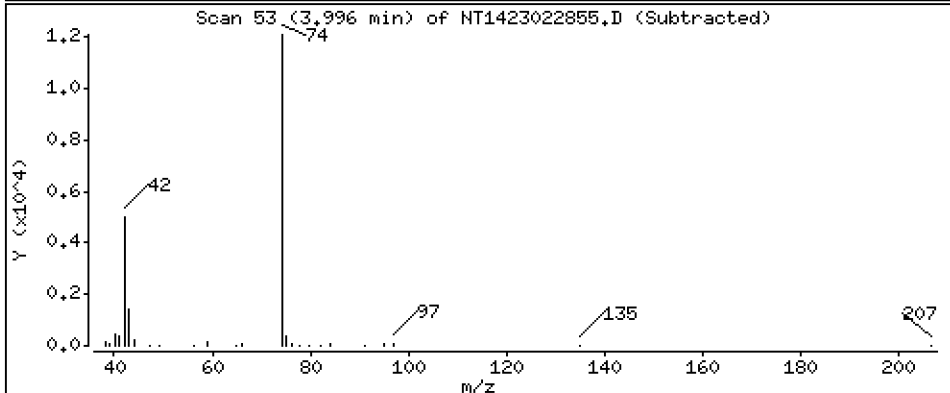
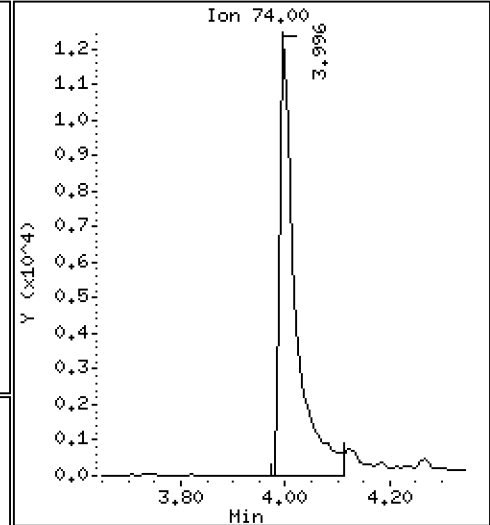
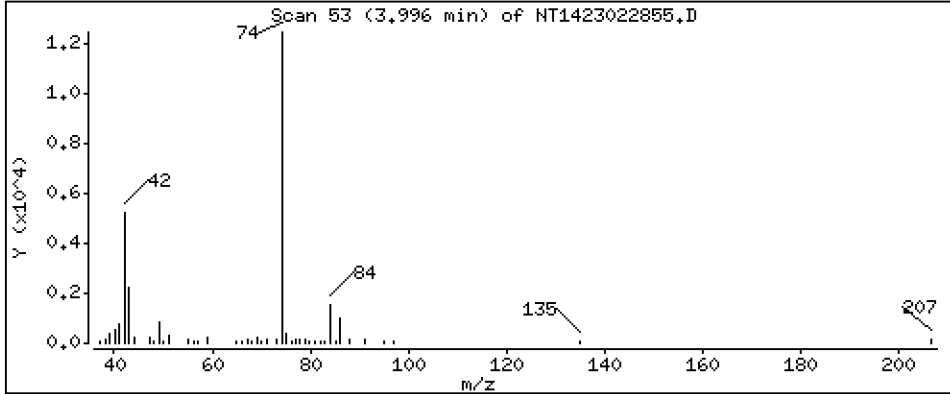
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 11,27 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

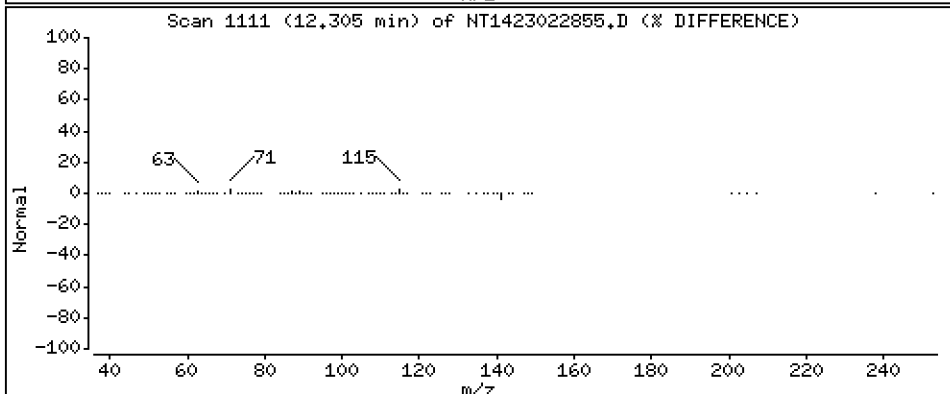
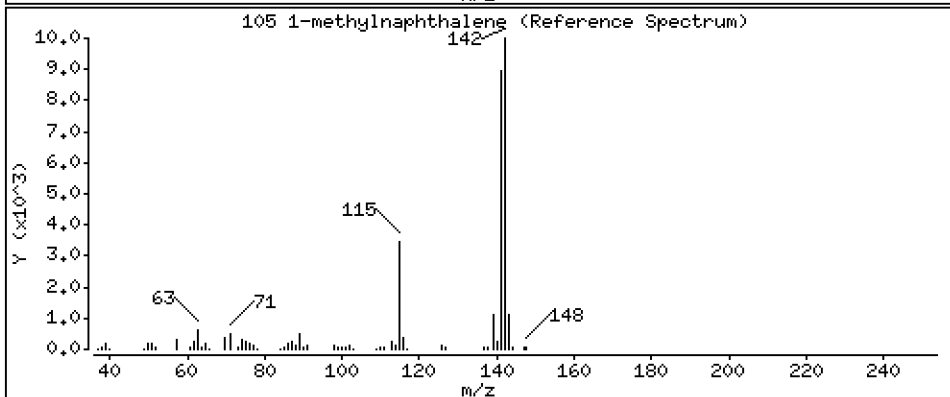
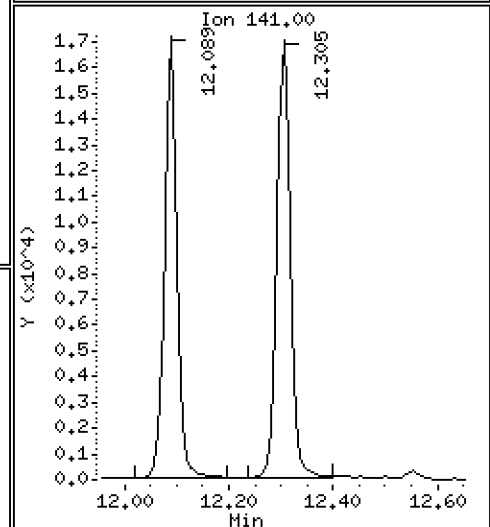
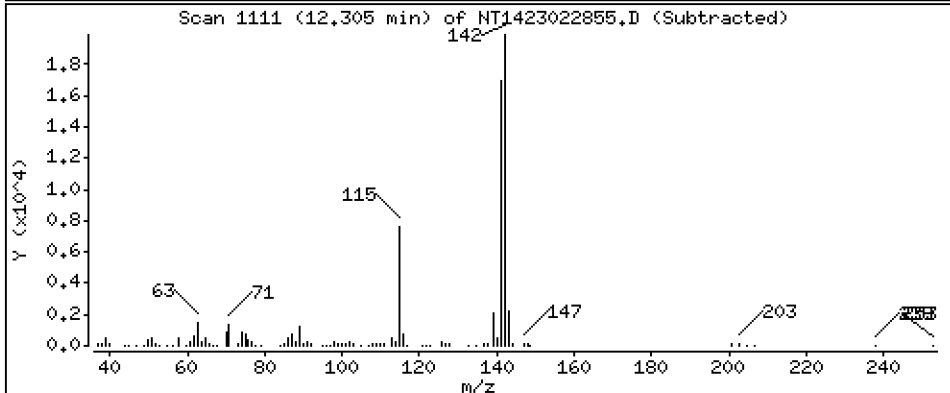
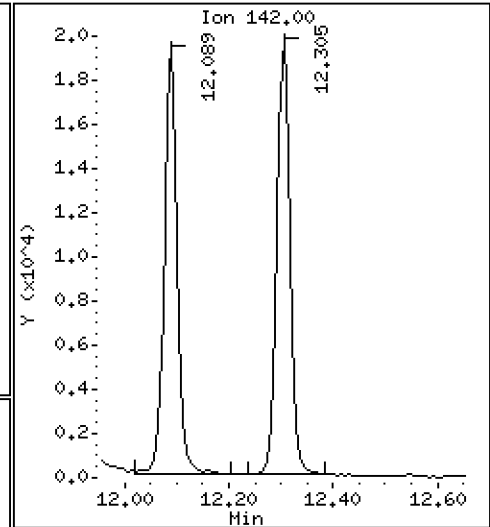
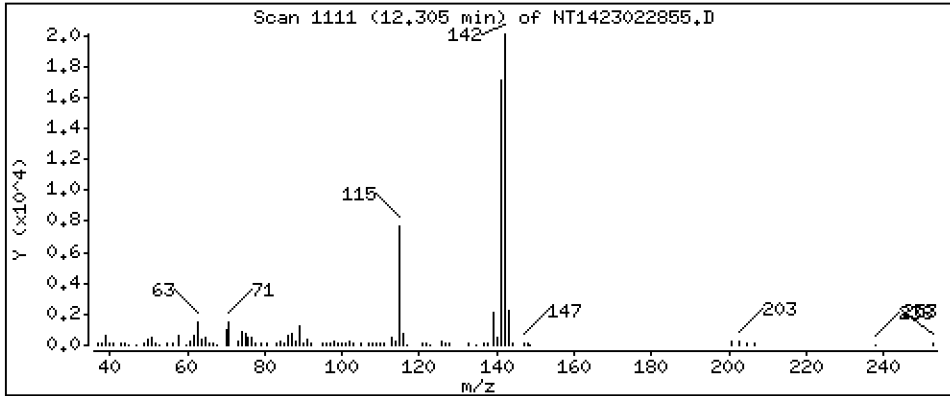
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,655 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

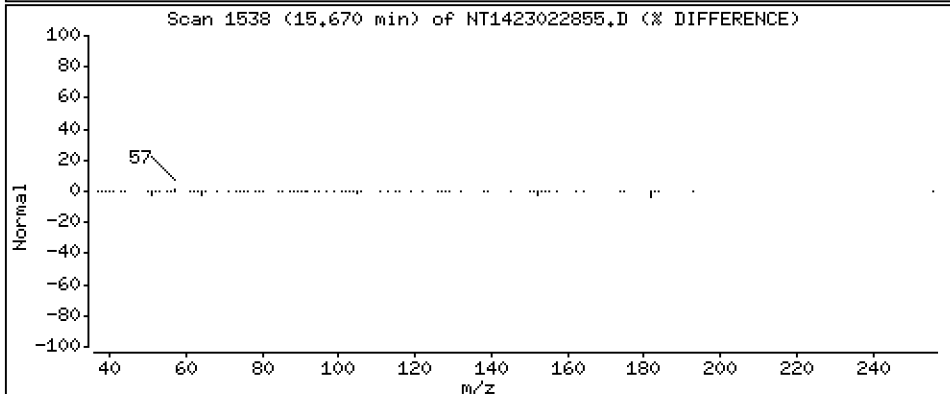
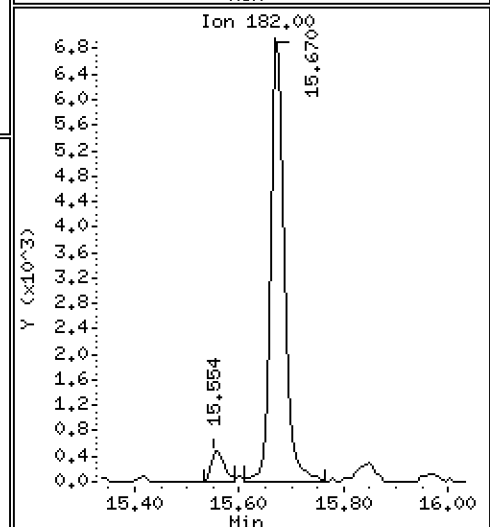
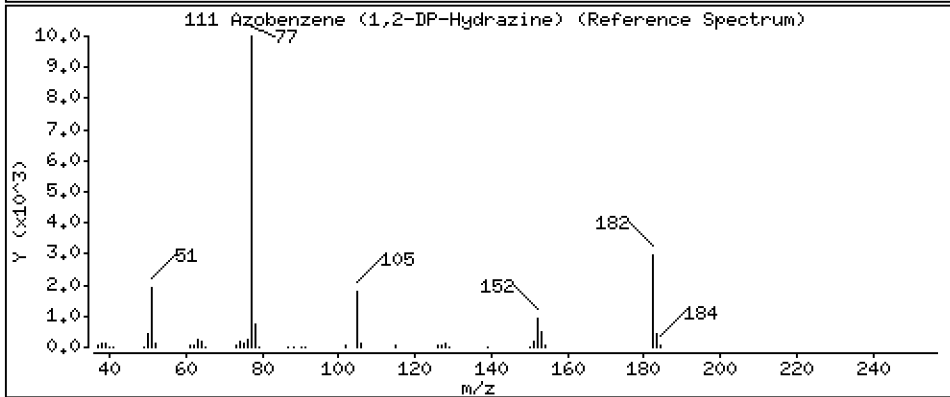
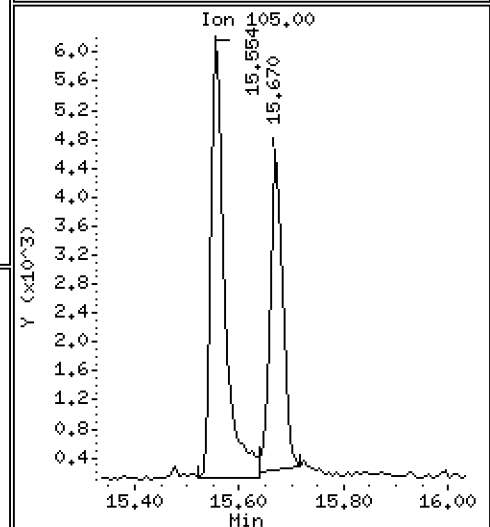
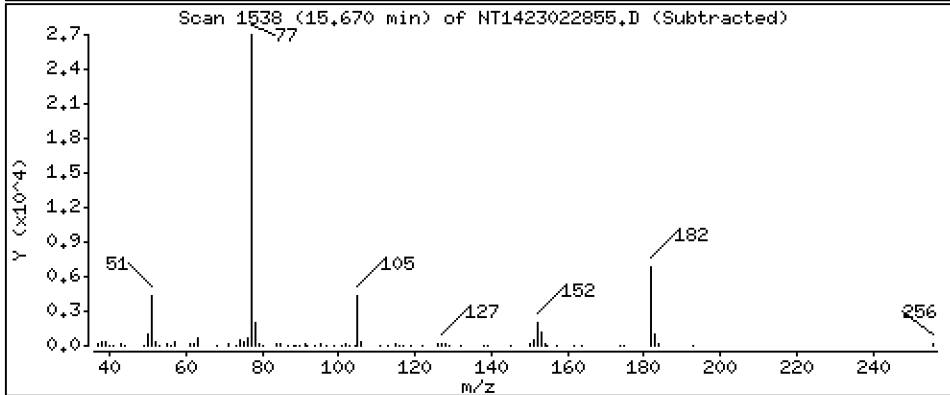
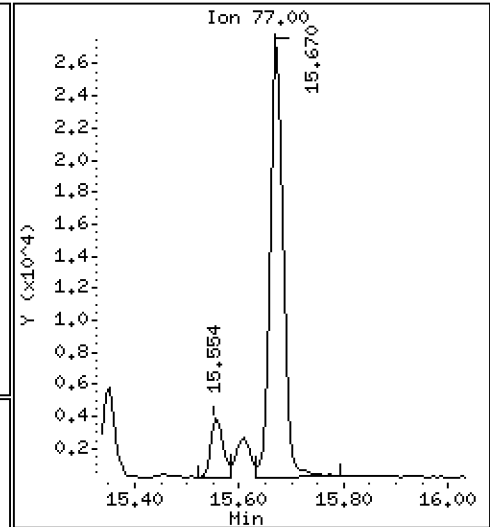
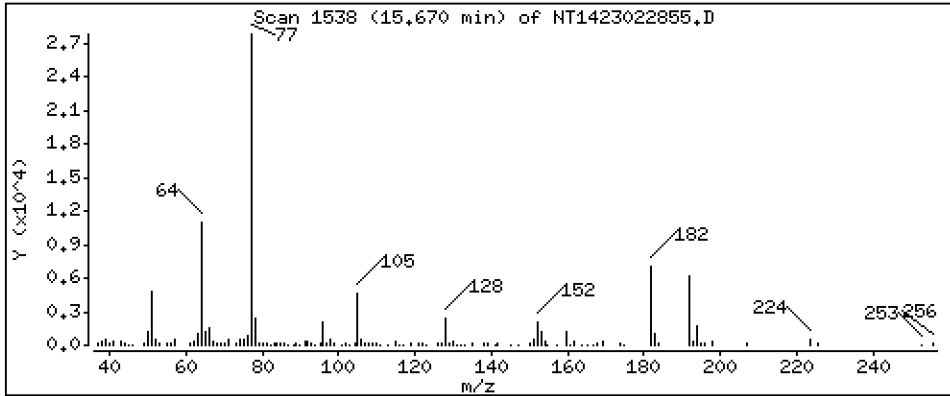
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 6,053 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

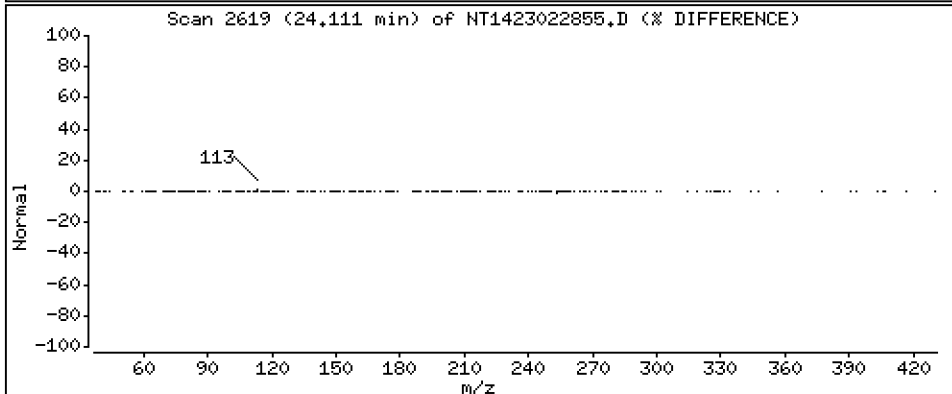
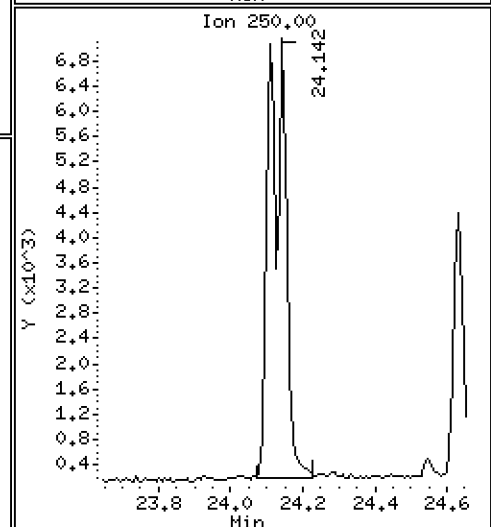
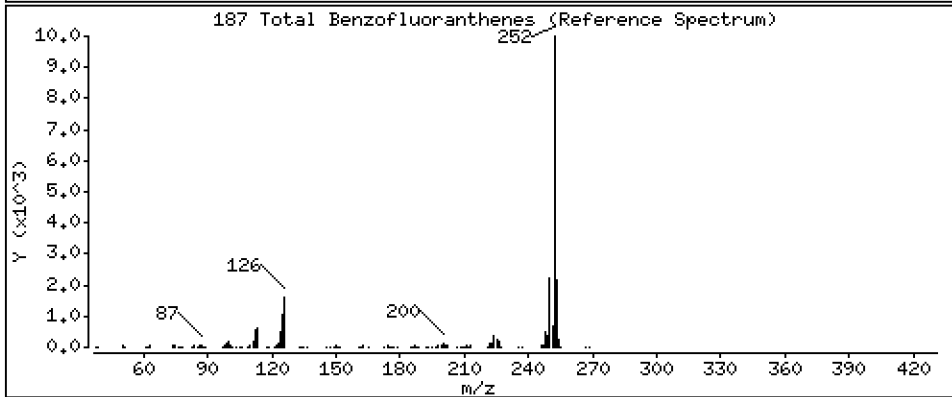
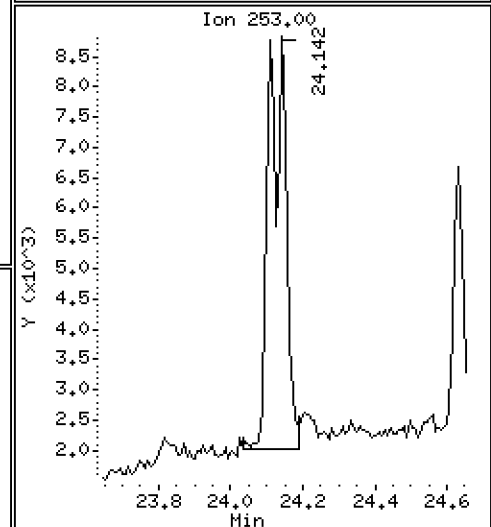
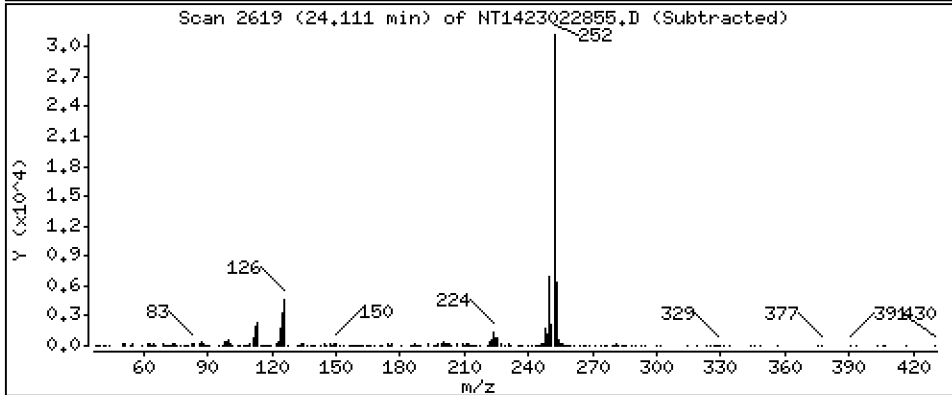
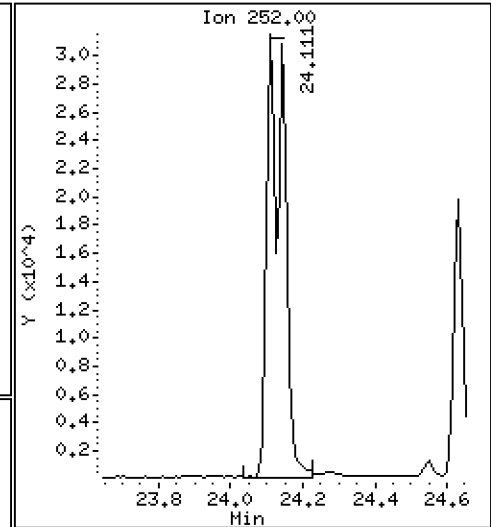
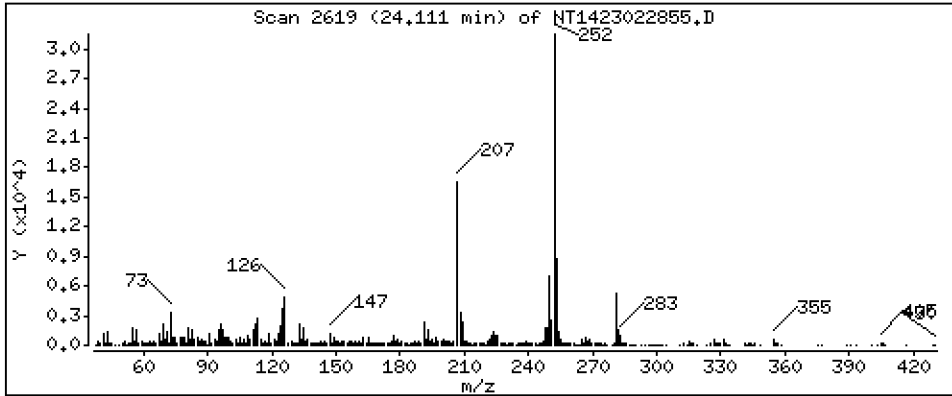
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 13,91 ug/mL



Date : 02-MAR-2023 10:05

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-MSD1,10

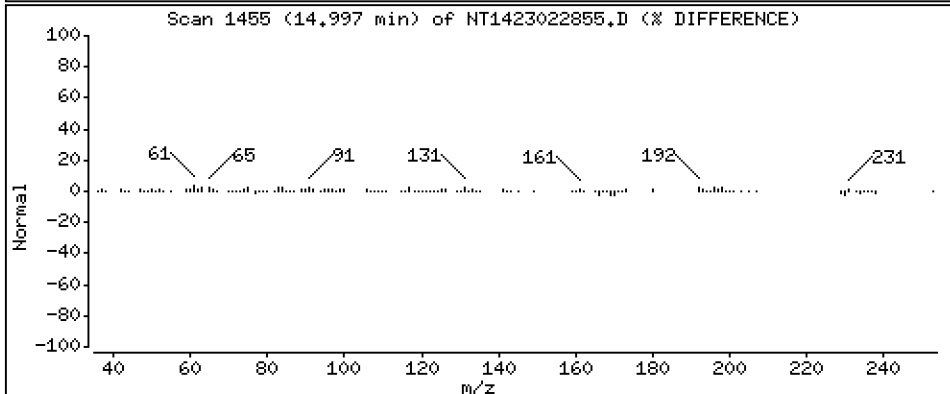
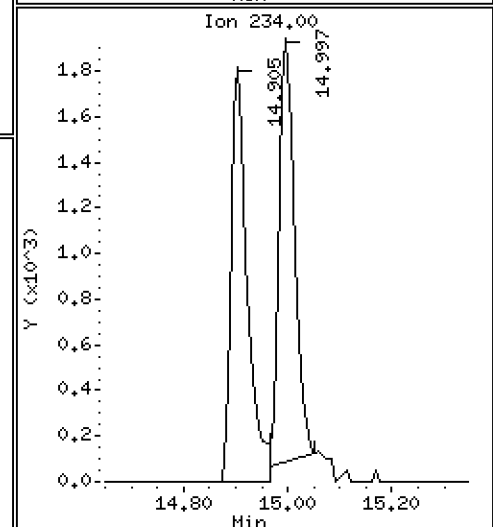
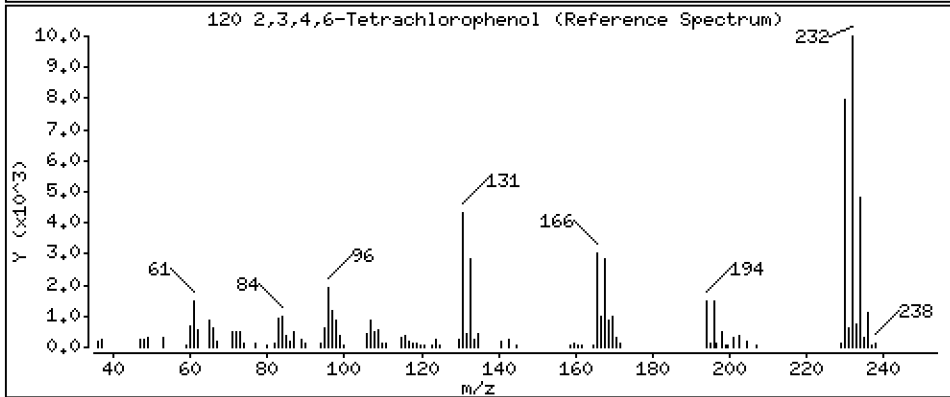
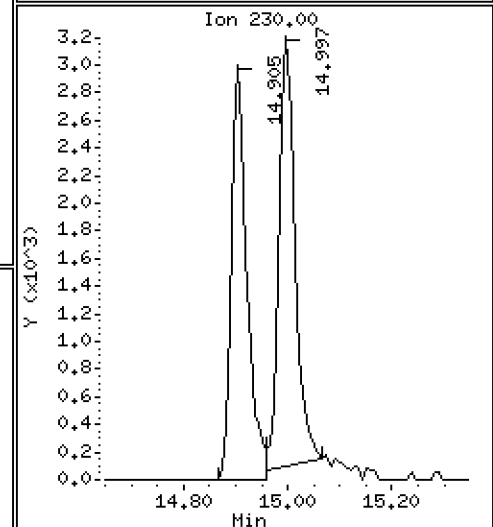
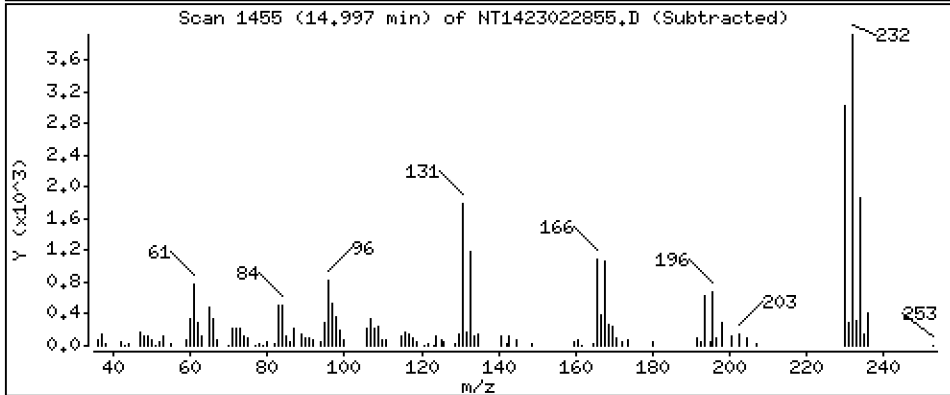
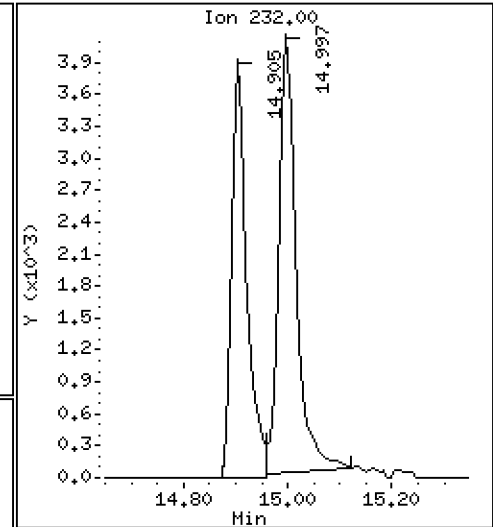
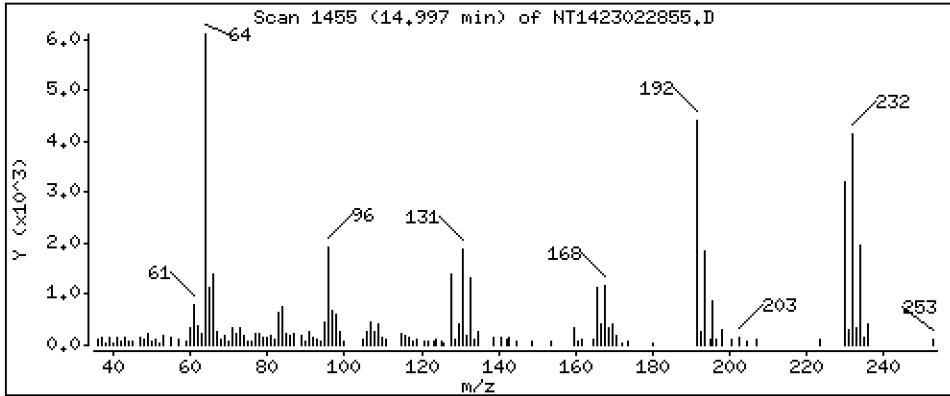
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 4,025 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022855.D  
 Lab Smp Id: BLA0557-MSD1  
 Inj Date : 02-MAR-2023 10:05 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : BLA0557-MSD1,10  
 Misc Info :  
 Comment : lul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 11-Mar-2023 13:20 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 22  
 Dil Factor: 10.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |           |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|-----------|
|                                 |       |     |        |        |         |          | ON-COLUMN      | FINAL     |
|                                 | MASS  |     |        |        |         |          | (ug/mL)        | (ug/mL)   |
| \$ 1 2-Fluorophenol             | 112   |     | 6.073  | 6.066  | (0.741) | 19308    | 0.66359        | 6.636     |
| \$ 2 Phenol-d5                  | 99    |     | 7.657  | 7.650  | (0.934) | 28860    | 0.69861        | 6.986     |
| 3 Phenol                        | 94    |     | 7.681  | 7.673  | (0.937) | 21634    | 0.43892        | 4.389     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.866  | 7.858  | (0.959) | 23118    | 0.65814        | 6.581     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.789  | 7.789  | (0.950) | 16179    | 0.46572        | 4.657     |
| 6 2-Chlorophenol                | 128   |     | 7.889  | 7.889  | (0.962) | 16606    | 0.45739        | 4.574     |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.137  | 8.137  | (0.992) | 17309    | 0.43261        | 4.326     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.199  | 8.207  | (1.000) | 107306   | 4.00000        |           |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.230  | 8.238  | (1.004) | 17169    | 0.43418        | 4.342     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.556  | 8.556  | (1.044) | 10693    | 0.40436        | 4.044     |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.579  | 8.579  | (1.046) | 16843    | 0.44420        | 4.442     |
| 11 Benzyl alcohol               | 108   |     | 8.649  | 8.517  | (1.055) | 6529     | 0.30374        | 3.037 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.796  | 8.797  | (1.073) | 5437     | 0.53169        | 5.317     |
| 13 2-Methylphenol               | 108   |     | 8.765  | 8.758  | (1.069) | 12617    | 0.40519        | 4.052     |
| 17 Hexachloroethane             | 117   |     | 9.154  | 9.162  | (1.116) | 5722     | 0.38531        | 3.853     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.053  | 9.061  | (1.104) | 12928    | 0.54529        | 5.453     |
| 15 4-Methylphenol               | 108   |     | 9.053  | 9.037  | (1.104) | 13083    | 0.36088        | 3.609     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.301  | 9.293  | (0.873) | 17751    | 0.46778        | 4.678     |
| 19 Nitrobenzene                 | 77    |     | 9.332  | 9.332  | (0.876) | 19785    | 0.54257        | 5.426     |
| 20 Isophorone                   | 82    |     | 9.774  | 9.782  | (0.917) | 35040    | 0.61571        | 6.157     |
| 21 2-Nitrophenol                | 139   |     | 9.961  | 9.953  | (0.935) | 7578     | 0.40144        | 4.014     |
| 22 2,4-Dimethylphenol           | 107   |     | 10.054 | 10.054 | (0.943) | 20792    | 0.62545        | 6.254     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.232 | 10.232 | (0.960) | 21185    | 0.57786        | 5.779     |
| 24 Benzoic acid                 | 105   |     | 10.263 | 10.372 | (0.963) | 35398    | 2.68696        | 26.87 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | 10.426 | 10.418 | (0.978) | 51185    | 1.52749        | 15.27     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.580 | 10.580 | (0.993) | 15584    | 0.41480        | 4.148     |
| * 27 Naphthalene-d8             | 136   |     | 10.657 | 10.665 | (1.000) | 387922   | 4.00000        |           |
| 28 Naphthalene                  | 128   |     | 10.696 | 10.704 | (1.004) | 48075    | 0.46461        | 4.646     |
| 29 4-Chloroaniline              | 127   |     | 10.896 | 10.866 | (1.022) | 4561     | 0.10306        | 1.031 (M) |
| 30 Hexachlorobutadiene          | 225   |     | 11.066 | 11.074 | (1.038) | 9068     | 0.39554        | 3.955     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.864 | 11.856 | (1.113) | 55841    | 1.86615        | 18.66     |
| 32 2-Methylnaphthalene          | 142   |     | 12.088 | 12.088 | (1.134) | 34064    | 0.44455        | 4.445     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.552 | 12.553 | (0.882) | 3625     | 0.15542        | 1.554     |



| Compounds                         | QUANT SIG |                        |        |         |          | CONCENTRATIONS       |                  |
|-----------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|
|                                   | MASS      | RT                     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 12.730                 | 12.731 | (0.894) | 37552    | 1.72924              | 17.29            |
| 35 2,4,5-Trichlorophenol          | 196       | 12.815                 | 12.808 | (0.900) | 41521    | 1.76839              | 17.68            |
| § 36 2-Fluorobiphenyl             | 172       | 12.877                 | 12.885 | (0.904) | 40781    | 0.47132              | 4.713            |
| 37 2-Chloronaphthalene            | 162       | 13.071                 | 13.071 | (0.918) | 33186    | 0.47845              | 4.785            |
| 38 2-Nitroaniline                 | 65        | 13.357                 | 13.365 | (0.938) | 36419    | 2.01322              | 20.13            |
| 39 Dimethylphthalate              | 163       | 13.798                 | 13.806 | (0.969) | 41253    | 0.58997              | 5.900            |
| 40 Acenaphthylene                 | 152       | 13.930                 | 13.930 | (0.978) | 50957    | 0.50067              | 5.007            |
| 41 2,6-Dinitrotoluene             | 165       | 13.930                 | 13.938 | (0.978) | 31971    | 1.95114              | 19.51            |
| * 42 Acenaphthene-d10             | 164       | 14.239                 | 14.247 | (1.000) | 222307   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138       | 14.216                 | 14.216 | (0.998) | 13537    | 0.80605              | 8.061            |
| 44 Acenaphthene                   | 153       | 14.301                 | 14.309 | (1.004) | 31943    | 0.49020              | 4.902            |
| 45 2,4-Dinitrophenol              | 184       | 14.440                 | 14.425 | (1.014) | 9276     | 0.89417              | 8.942 (M)        |
| 46 Dibenzofuran                   | 168       | 14.634                 | 14.642 | (1.028) | 49792    | 0.48022              | 4.802            |
| 47 4-Nitrophenol                  | 109       | 14.634                 | 14.595 | (1.028) | 11524    | 1.38469              | 13.85 (M)        |
| 48 2,4-Dinitrotoluene             | 165       | 14.726                 | 14.734 | (1.034) | 42304    | 1.79337              | 17.93            |
| 50 Diethylphthalate               | 149       | 15.244                 | 15.260 | (1.071) | 43280    | 0.66189              | 6.619            |
| 49 Fluorene                       | 166       | 15.337                 | 15.345 | (1.077) | 46214    | 0.52900              | 5.290            |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.353                 | 15.361 | (1.078) | 23737    | 0.51066              | 5.107            |
| 52 4-Nitroaniline                 | 138       | 15.476                 | 15.484 | (1.087) | 19221    | 1.15457              | 11.55            |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.554                 | 15.569 | (0.902) | 29503    | 2.15417              | 21.54            |
| 54 N-Nitrosodiphenylamine         | 169       | 15.607                 | 15.615 | (0.905) | 27743    | 0.53630              | 5.363            |
| § 55 2,4,6-Tribromophenol         | 330       | 15.877                 | 15.885 | (1.115) | 8076     | 0.67514              | 6.751            |
| 56 4-Bromophenyl-phenylether      | 248       | 16.348                 | 16.348 | (0.948) | 12550    | 0.55183              | 5.518            |
| 57 Hexachlorobenzene              | 284       | 16.634                 | 16.642 | (0.964) | 12773    | 0.51083              | 5.108            |
| 58 Pentachlorophenol              | 266       | 17.021                 | 17.013 | (0.987) | 18721    | 1.58167              | 15.82 (M)        |
| * 59 Phenanthrene-d10             | 188       | 17.253                 | 17.253 | (1.000) | 411647   | 4.00000              |                  |
| 60 Phenanthrene                   | 178       | 17.299                 | 17.299 | (1.003) | 58891    | 0.53778              | 5.378            |
| 61 Anthracene                     | 178       | 17.392                 | 17.392 | (1.008) | 47798    | 0.46171              | 4.617            |
| 62 Carbazole                      | 167       | 17.740                 | 17.748 | (1.028) | 48040    | 0.52946              | 5.295            |
| 63 Di-n-butylphthalate            | 149       | 18.599                 | 18.599 | (1.078) | 73797    | 0.63077              | 6.308            |
| 64 Fluoranthene                   | 202       | 19.721                 | 19.729 | (0.882) | 70129    | 0.57332              | 5.733            |
| 65 Pyrene                         | 202       | 20.146                 | 20.154 | (0.901) | 74051    | 0.57419              | 5.742            |
| § 66 Terphenyl-d14                | 244       | 20.479                 | 20.479 | (0.916) | 51443    | 0.51807              | 5.181            |
| 67 Butylbenzylphthalate           | 149       | 21.439                 | 21.447 | (0.958) | 27715    | 0.60813              | 6.081            |
| 68 Benzo(a)anthracene             | 228       | 22.345                 | 22.353 | (0.999) | 62071    | 0.57473              | 5.747            |
| * 69 Chrysene-d12                 | 240       | 22.368                 | 22.376 | (1.000) | 322410   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.338                 | 22.338 | (0.999) | 12140    | 0.39362              | 3.936            |
| 71 Chrysene                       | 228       | 22.415                 | 22.423 | (1.002) | 57041    | 0.54948              | 5.495            |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.492                 | 22.500 | (0.958) | 38649    | 0.52484              | 5.248            |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.476                 | 23.483 | (1.000) | 482430   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149       | 23.483                 | 23.491 | (1.000) | 70719    | 0.55675              | 5.567            |
| 74 Benzo(b)fluoranthene           | 252       | 24.110                 | 24.118 | (0.975) | 50859    | 0.67367              | 6.737            |
| 75 Benzo(k)fluoranthene           | 252       | 24.141                 | 24.149 | (0.977) | 58157    | 0.71404              | 7.140            |
| 76 Benzo(a)pyrene                 | 252       | 24.629                 | 24.637 | (0.996) | 34741    | 0.53637              | 5.364            |
| * 77 Perylene-d12                 | 264       | 24.722                 | 24.730 | (1.000) | 228505   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.816                 | 26.808 | (1.085) | 18344    | 0.22499              | 2.250            |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.823                 | 26.824 | (1.085) | 17632    | 0.25462              | 2.546            |
| 80 Benzo(g,h,i)perylene           | 276       | 27.414                 | 27.414 | (1.109) | 12345    | 0.17360              | 1.736            |
| 90 N-Nitrosodimethylamine         | 74        | 3.996                  | 3.996  | (0.487) | 24696    | 1.12738              | 11.27            |
| 91 Aniline                        | 93        | Compound Not Detected. |        |         |          |                      |                  |
| 93 Benzidine                      | 184       | Compound Not Detected. |        |         |          |                      |                  |
| 103 Pyridine                      | 79        | Compound Not Detected. |        |         |          |                      |                  |
| 105 1-methylnaphthalene           | 142       | 12.305                 | 12.305 | (1.155) | 32842    | 0.46555              | 4.655            |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.669                 | 15.685 | (1.100) | 45436    | 0.60527              | 6.053            |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 24.110 | 24.149 | (0.975) | 102716   | 1.39085              | 13.91            |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 14.997 | 14.997 | (1.053) | 10078    | 0.40247              | 4.025            |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 02-MAR-2023  
 Lab File ID: NT1423022855.D Calibration Time: 05:52  
 Lab Smp Id: BLA0557-MSD1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 116519   | 58260      | 233038  | 107306 | -7.91  |
| 27 Naphthalene-d8     | 429090   | 214545     | 858180  | 387922 | -9.59  |
| 42 Acenaphthene-d10   | 250637   | 125319     | 501274  | 222307 | -11.30 |
| 59 Phenanthrene-d10   | 458117   | 229059     | 916234  | 411647 | -10.14 |
| 69 Chrysene-d12       | 393468   | 196734     | 786936  | 322410 | -18.06 |
| 134 Di-n-octylphthala | 572636   | 286318     | 1145272 | 482430 | -15.75 |
| 77 Perylene-d12       | 283320   | 141660     | 566640  | 228505 | -19.35 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.20   | -0.10 |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.66  | -0.07 |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.24  | -0.06 |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.25  | -0.00 |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.37  | -0.04 |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.48  | -0.03 |
| 77 Perylene-d12       | 24.73    | 24.23    | 25.23 | 24.72  | -0.03 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022855.D

Lab ID: BLA0557-MSD1  
nt14.i, ABN.m, 02-MAR-2023 10:05

| RT     | CO-ELUTION COMPOUNDS                  |
|--------|---------------------------------------|
| 13.930 | Acenaphthylene and 2,6-Dinitrotoluene |

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND       |
|-------|---------|---------|----------------|
| 1.055 | 1.038   | 0.0171  | Benzyl alcohol |
| 0.963 | 0.972   | -0.0095 | Benzoic acid   |

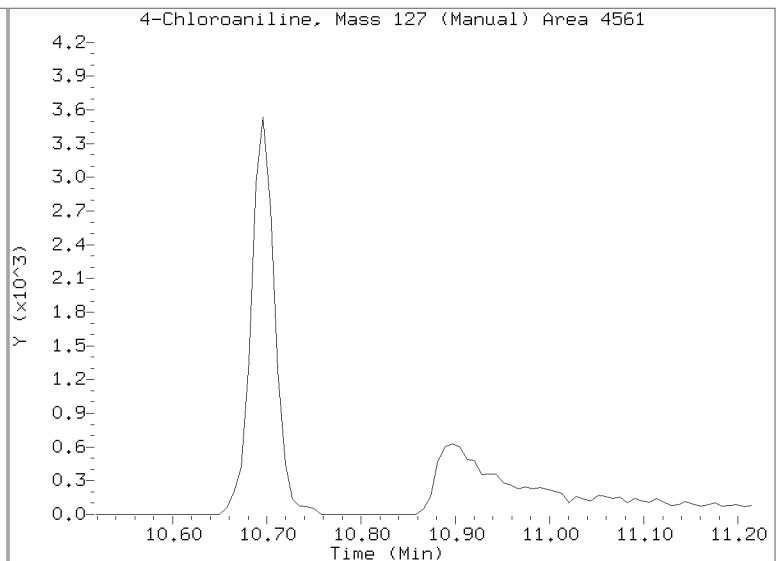
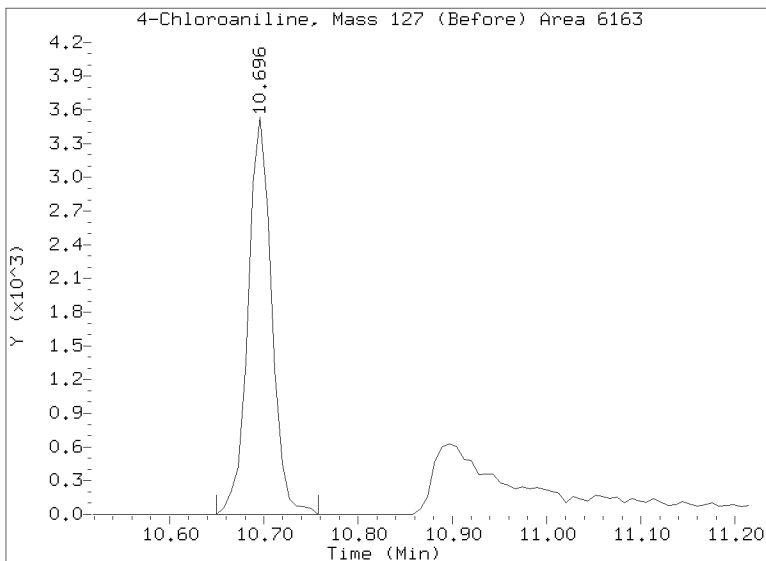
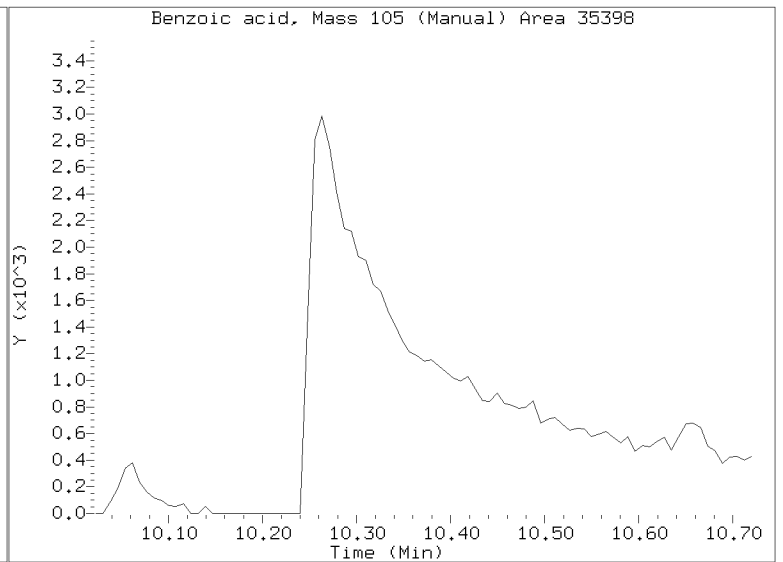
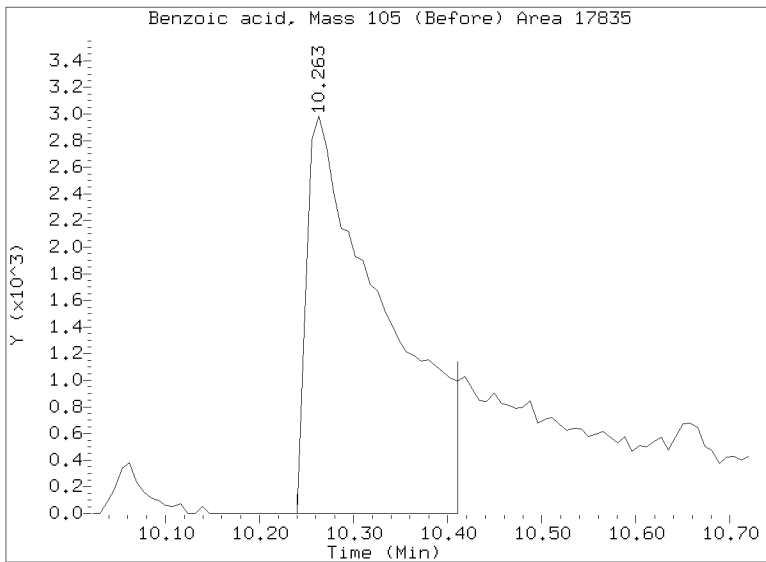
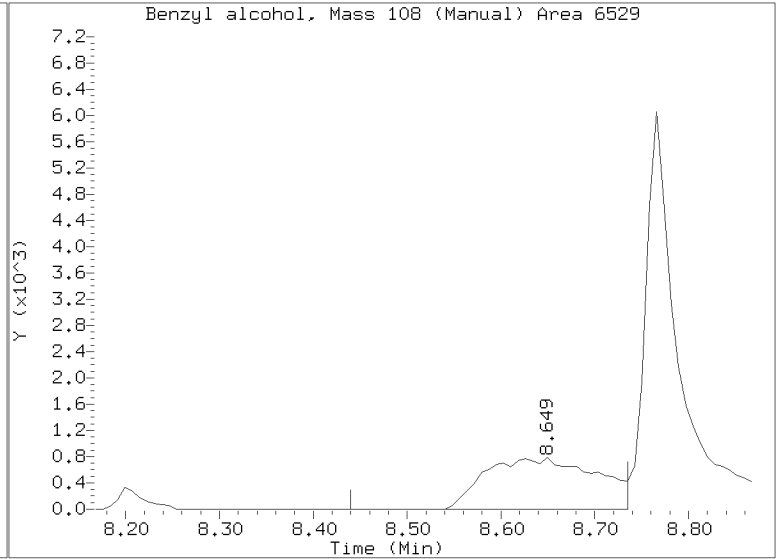
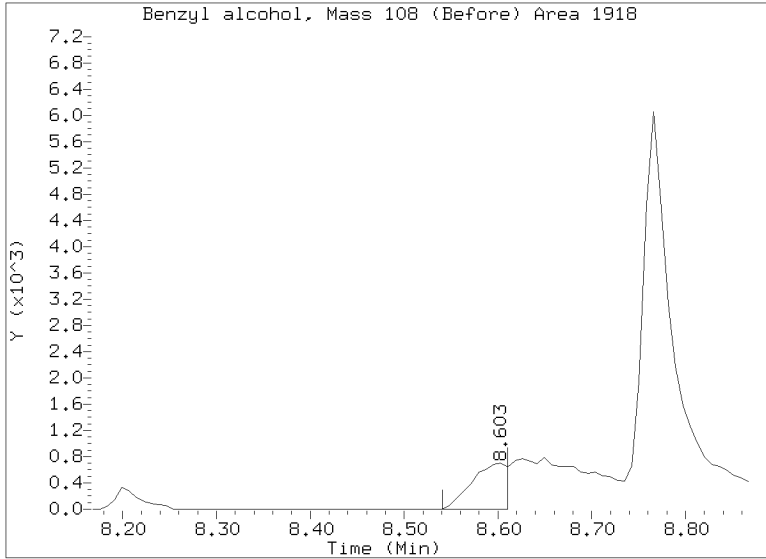
RRT check based on Ccal File: NT1423022848.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

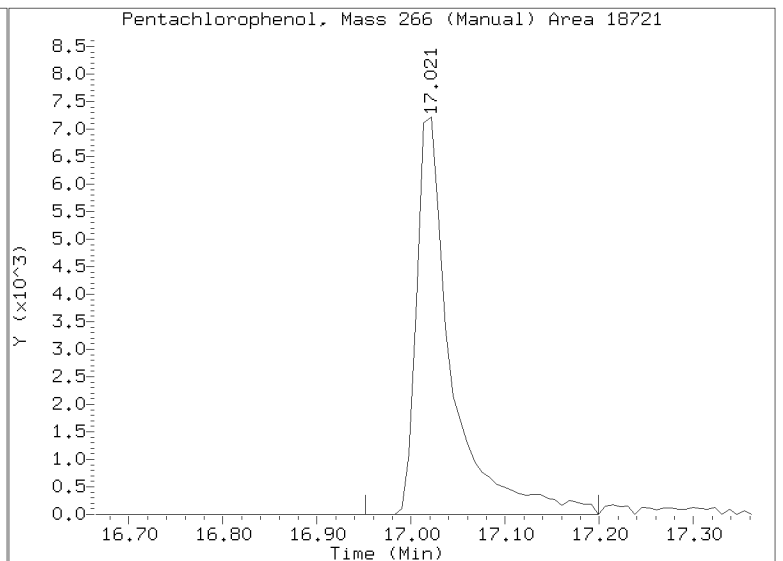
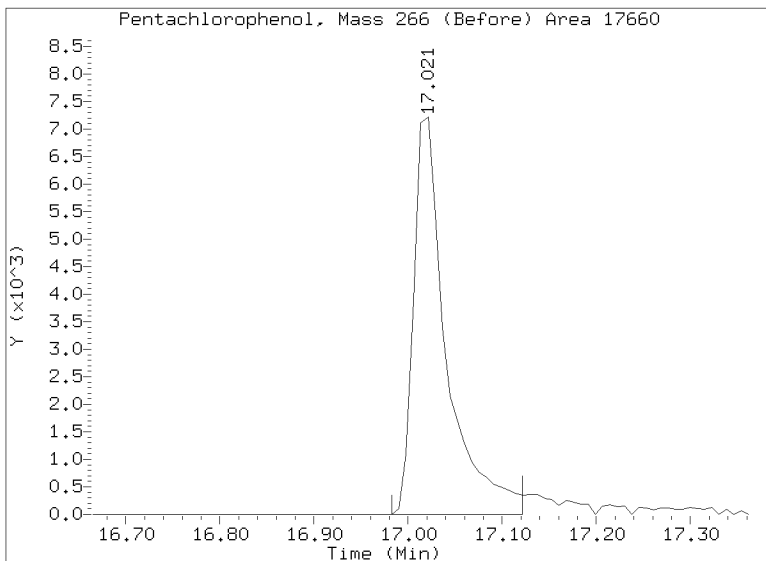
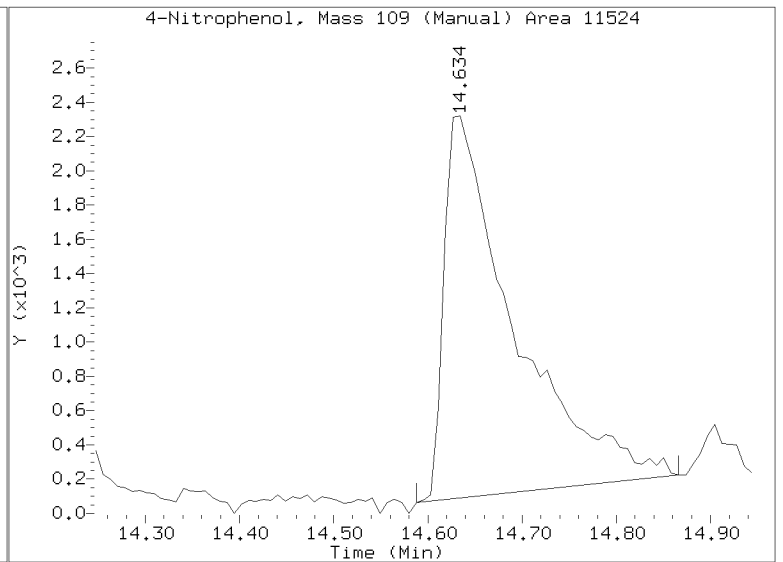
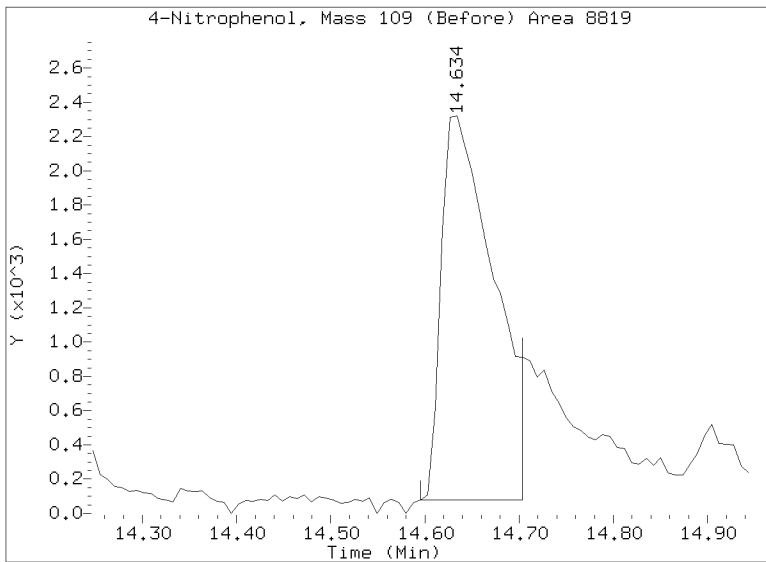
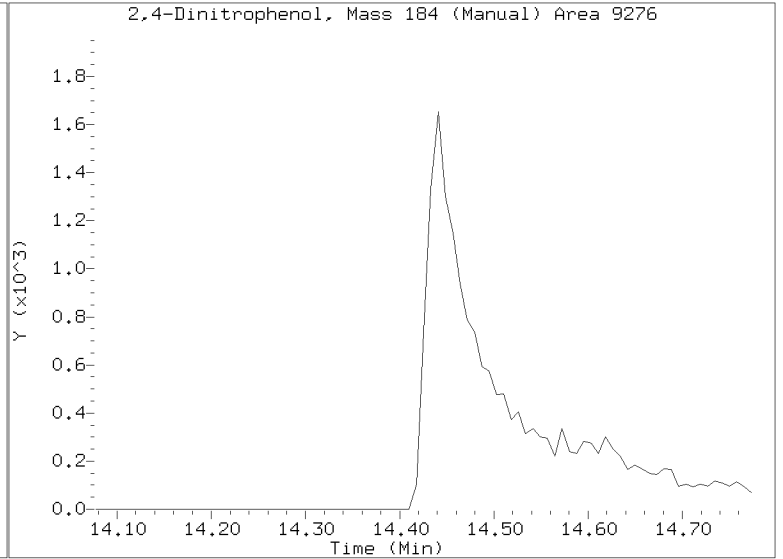
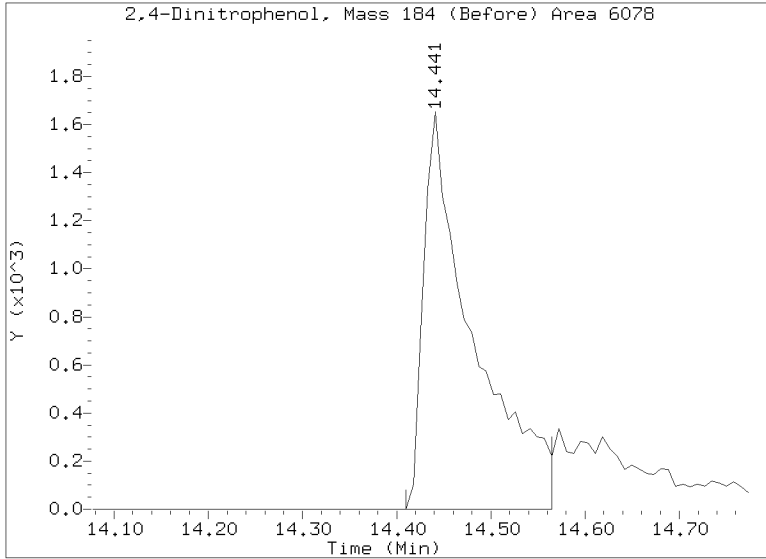
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Injection Date: 02-MAR-2023 10:05  
Lab ID:BLA0557-MSD1 Client ID:  
Report Date: 03/14/2023 08:44



# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022855.D  
Injection Date: 02-MAR-2023 10:05  
Lab ID:BLA0557-MSD1 Client ID:  
Report Date: 03/14/2023 08:44





**MS / MS DUPLICATE RECOVERY  
EPA 8270E**

|                |                                  |                |                        |
|----------------|----------------------------------|----------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>         |
| Client:        | <u>Anchor OEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u> |
| Matrix:        | <u>Solid</u>                     | Analyzed:      | <u>03/23/23 06:24</u>  |
| Batch:         | <u>BLC0442</u>                   | Laboratory ID: | <u>BLC0442-MS1</u>     |
| Preparation:   | <u>EPA 3546 (Microwave)</u>      | Sequence Name: | <u>Matrix Spike</u>    |
| Initial/Final: | <u>13.41 g / 1 mL</u>            | Source Sample: | <u>LDW23-SS1200</u>    |

| COMPOUND                    | SPIKE ADDED (ug/kg dry) | SAMPLE CONCENTRATION (ug/kg dry) | Q | MS CONCENTRATION (ug/kg dry) | Q | MS % REC. # | QC LIMITS REC. |
|-----------------------------|-------------------------|----------------------------------|---|------------------------------|---|-------------|----------------|
| Phenol                      | 500                     | 38.5                             |   | 420                          |   | 76.3        | 34 - 120       |
| 4-Methylphenol              | 500                     | ND                               | U | 473                          |   | 94.7        | 29 - 120       |
| Naphthalene                 | 500                     | 5.7                              | J | 427                          |   | 84.3        | 43 - 120       |
| 2-Methylnaphthalene         | 500                     | 6.5                              | J | 453                          |   | 89.3        | 43 - 120       |
| Acenaphthylene              | 500                     | ND                               | U | 436                          |   | 87.1        | 42 - 120       |
| Dimethylphthalate           | 500                     | ND                               | U | 506                          |   | 101         | 43 - 120       |
| Acenaphthene                | 500                     | ND                               | U | 459                          |   | 91.9        | 45 - 120       |
| Dibenzofuran                | 500                     | ND                               | U | 466                          |   | 93.2        | 43 - 120       |
| Fluorene                    | 500                     | ND                               | U | 490                          |   | 98.0        | 45 - 120       |
| Phenanthrene                | 500                     | 23.4                             |   | 481                          |   | 91.6        | 49 - 120       |
| Anthracene                  | 500                     | 13.4                             | J | 429                          |   | 83.2        | 45 - 120       |
| Fluoranthene                | 500                     | 37.5                             |   | 458                          |   | 84.0        | 53 - 145       |
| Pyrene                      | 500                     | 61.6                             |   | 484                          |   | 84.5        | 52 - 134       |
| Butylbenzylphthalate        | 500                     | ND                               | U | 507                          |   | 101         | 45 - 132       |
| Benzo(a)anthracene          | 500                     | 28.2                             |   | 484                          |   | 91.2        | 49 - 120       |
| Chrysene                    | 500                     | 31.8                             |   | 458                          |   | 85.3        | 47 - 120       |
| bis(2-Ethylhexyl)phthalate  | 500                     | 16.4                             | J | 466                          |   | 90.0        | 34 - 130       |
| Benzo(a)fluoranthene, Total | 1000                    | 69.9                             |   | 1040                         |   | 96.6        | 30 - 160       |
| Benzo(a)pyrene              | 500                     | 30.8                             |   | 491                          |   | 92.1        | 42 - 120       |
| Indeno(1,2,3-cd)pyrene      | 500                     | 16.3                             | J | 438                          |   | 84.3        | 42 - 163       |
| Dibenzo(a,h)anthracene      | 500                     | ND                               | U | 441                          |   | 88.3        | 30 - 133       |
| Benzo(g,h,i)perylene        | 500                     | 19.3                             | J | 411                          |   | 78.3        | 46 - 148       |

\* Values outside of QC limits



**MS / MS DUPLICATE RECOVERY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Matrix: Solid  
Batch: BLC0442  
Preparation: EPA 3546 (Microwave)  
Initial/Final: 13.41 g / 1 mL

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Analyzed: 03/23/23 07:01  
Laboratory ID: BLC0442-MSD1  
Sequence Name: Matrix Spike Dup  
Source Sample: LDW23-SS1200

| COMPOUND                    | SPIKE ADDED (ug/kg dry) | MSD CONCENTRATION (ug/kg dry) | Q | MSD % REC. # | % RPD # | QC LIMITS |          |
|-----------------------------|-------------------------|-------------------------------|---|--------------|---------|-----------|----------|
|                             |                         |                               |   |              |         | RPD       | REC.     |
| Phenol                      | 500                     | 390                           |   | 70.3         | 7.36    | 30        | 34 - 120 |
| 4-Methylphenol              | 500                     | 359                           |   | 71.9         | 27.4    | 30        | 29 - 120 |
| Naphthalene                 | 500                     | 401                           |   | 79.1         | 6.25    | 30        | 43 - 120 |
| 2-Methylnaphthalene         | 500                     | 410                           |   | 80.7         | 9.94    | 30        | 43 - 120 |
| Acenaphthylene              | 500                     | 388                           |   | 77.6         | 11.6    | 30        | 42 - 120 |
| Dimethylphthalate           | 500                     | 466                           |   | 93.2         | 8.26    | 30        | 43 - 120 |
| Acenaphthene                | 500                     | 425                           |   | 85.1         | 7.69    | 30        | 45 - 120 |
| Dibenzofuran                | 500                     | 426                           |   | 85.2         | 8.88    | 30        | 43 - 120 |
| Fluorene                    | 500                     | 451                           |   | 90.3         | 8.20    | 30        | 45 - 120 |
| Phenanthrene                | 500                     | 446                           |   | 84.5         | 7.62    | 30        | 49 - 120 |
| Anthracene                  | 500                     | 379                           |   | 73.2         | 12.3    | 30        | 45 - 120 |
| Fluoranthene                | 500                     | 440                           |   | 80.6         | 3.87    | 30        | 53 - 145 |
| Pyrene                      | 500                     | 464                           |   | 80.4         | 4.32    | 30        | 52 - 134 |
| Butylbenzylphthalate        | 500                     | 504                           |   | 101          | 0.661   | 30        | 45 - 132 |
| Benzo(a)anthracene          | 500                     | 464                           |   | 87.2         | 4.21    | 30        | 49 - 120 |
| Chrysene                    | 500                     | 446                           |   | 82.9         | 2.67    | 30        | 47 - 120 |
| bis(2-Ethylhexyl)phthalate  | 500                     | 439                           |   | 84.5         | 6.02    | 30        | 34 - 130 |
| Benzo(a)fluoranthene, Total | 1000                    | 995                           |   | 92.5         | 3.96    | 30        | 30 - 160 |
| Benzo(a)pyrene              | 500                     | 459                           |   | 85.8         | 6.64    | 30        | 42 - 120 |
| Indeno(1,2,3-cd)pyrene      | 500                     | 432                           |   | 83.2         | 1.31    | 30        | 42 - 163 |
| Dibenzo(a,h)anthracene      | 500                     | 427                           |   | 85.5         | 3.20    | 30        | 30 - 133 |
| Benzo(g,h,i)perylene        | 500                     | 398                           |   | 75.7         | 3.21    | 30        | 46 - 148 |

\* Values outside of QC limits



Data File: \\target\share\chem3\nt10.1\20230322.1\NT1003222322.D

Date: 23-MAR-2023 06:24

Client ID:

Sample Info: BLC0442-HSI

Page 1

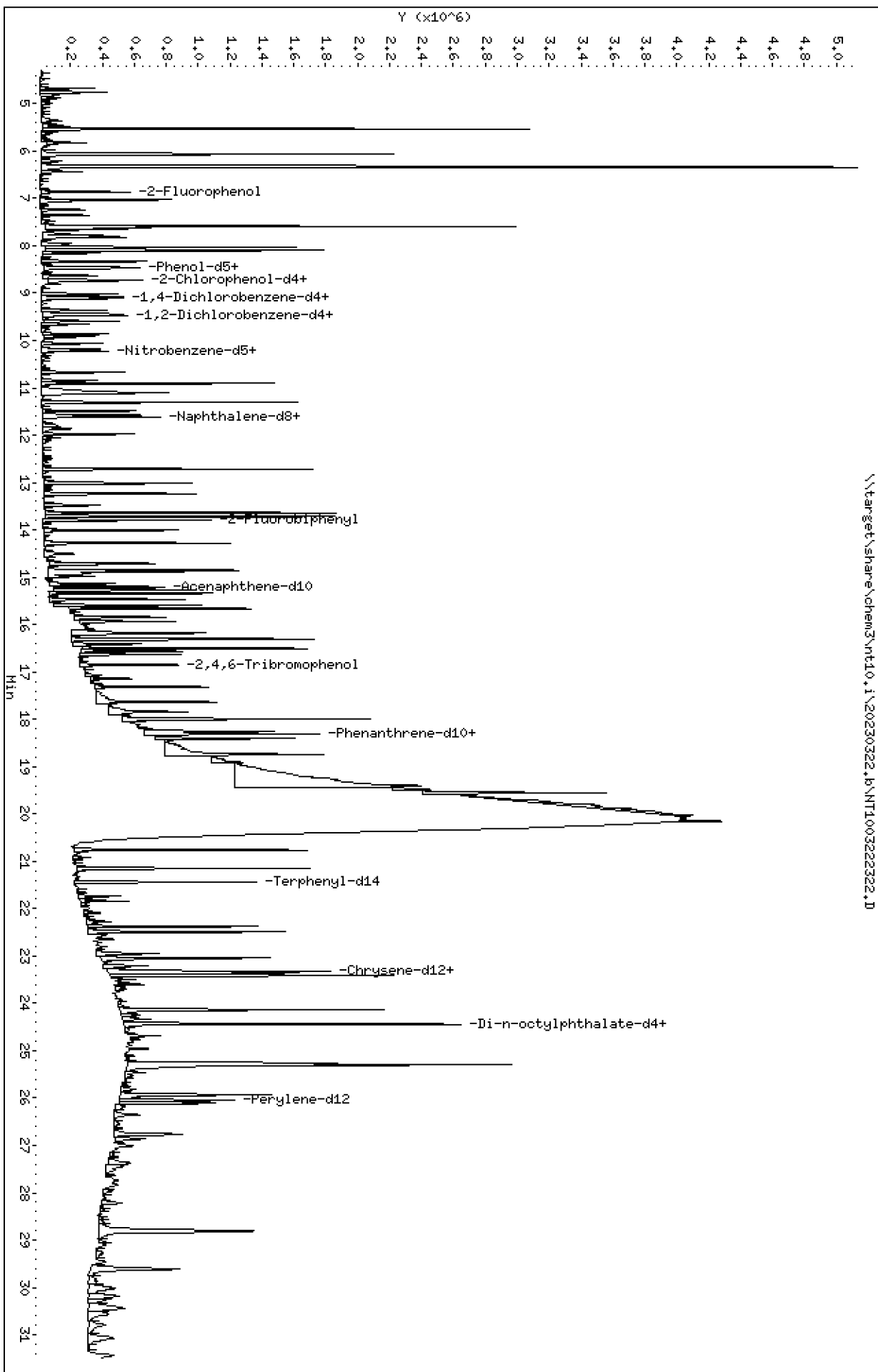
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

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Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

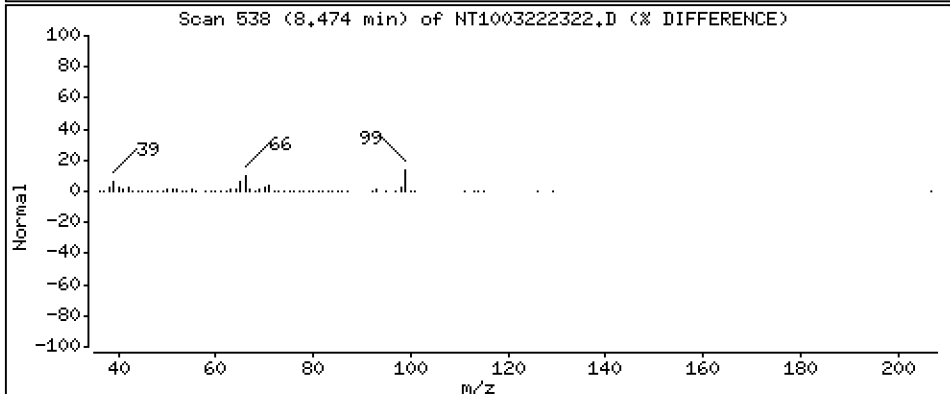
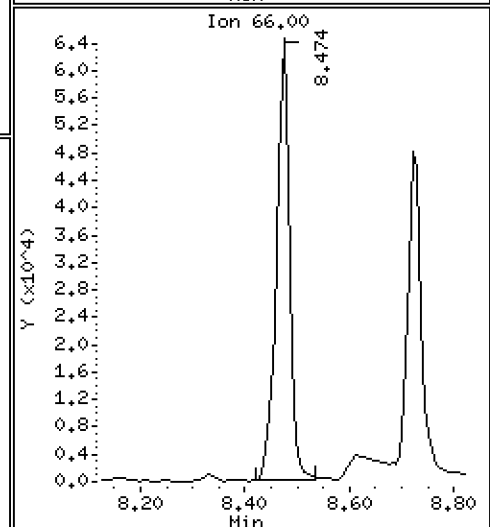
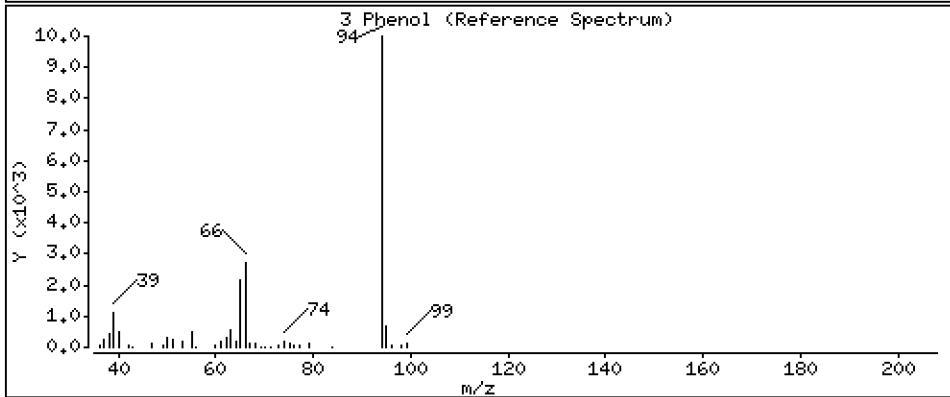
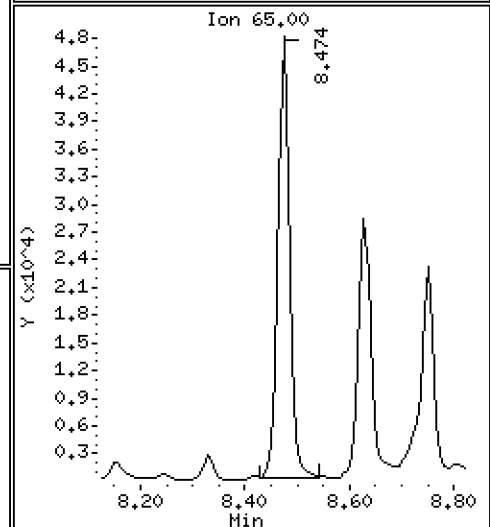
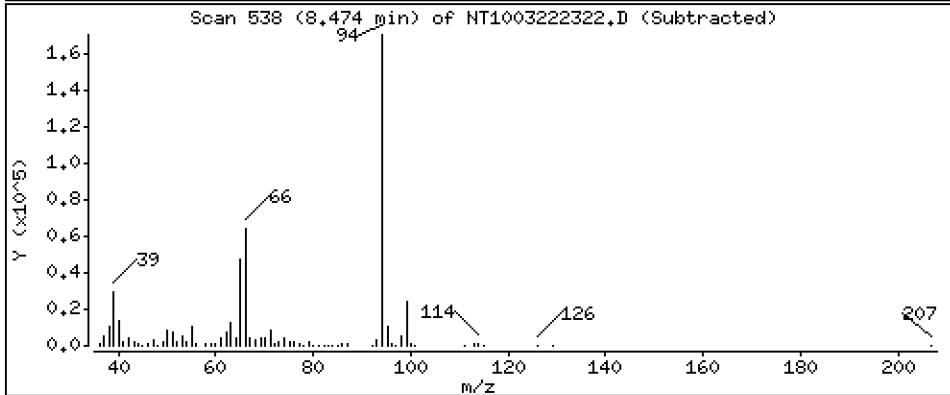
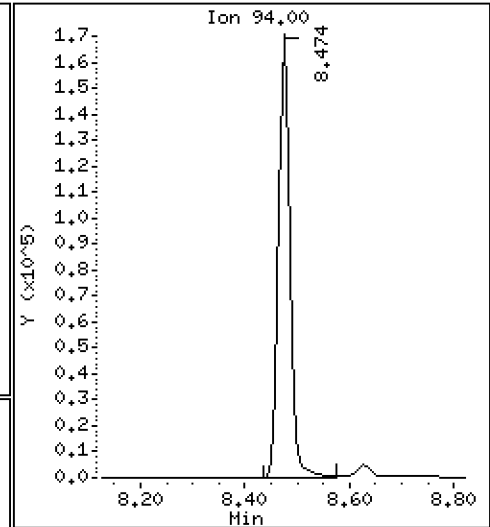
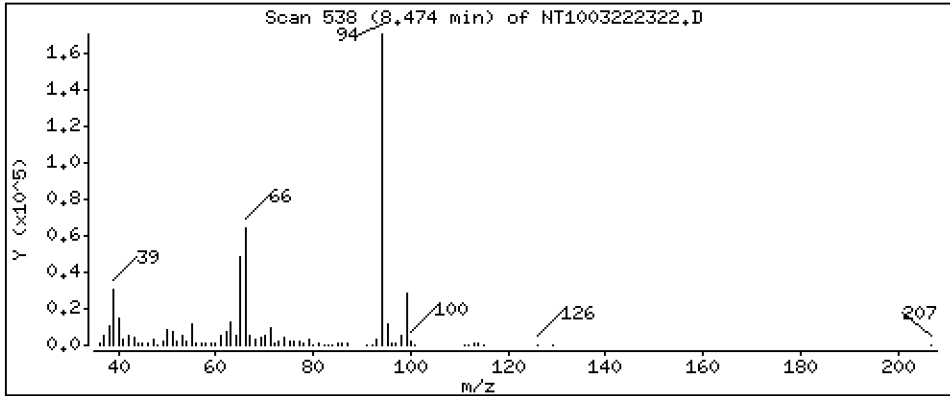
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 4,198 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

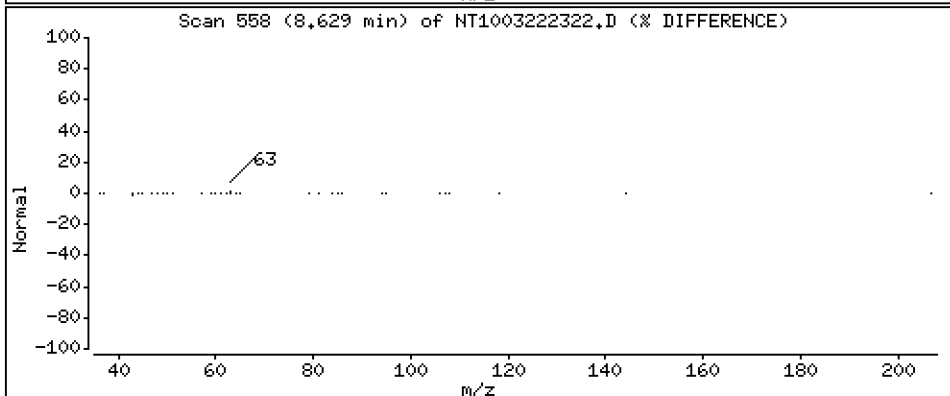
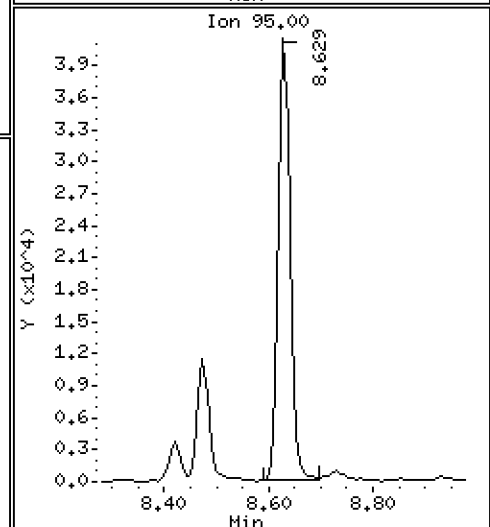
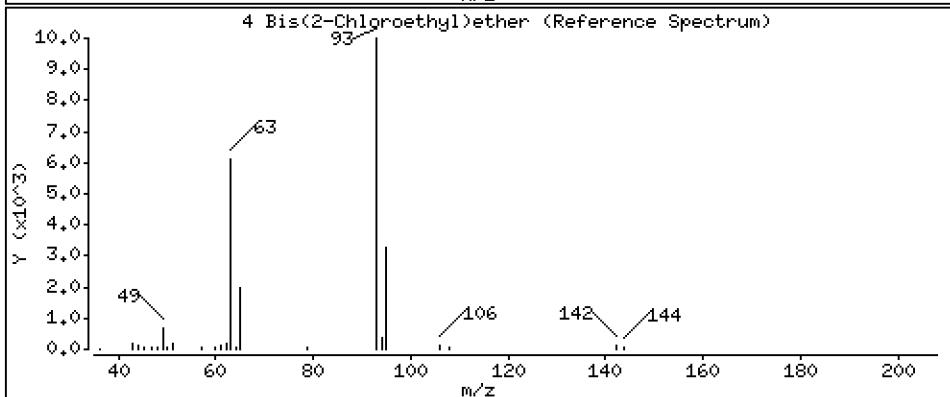
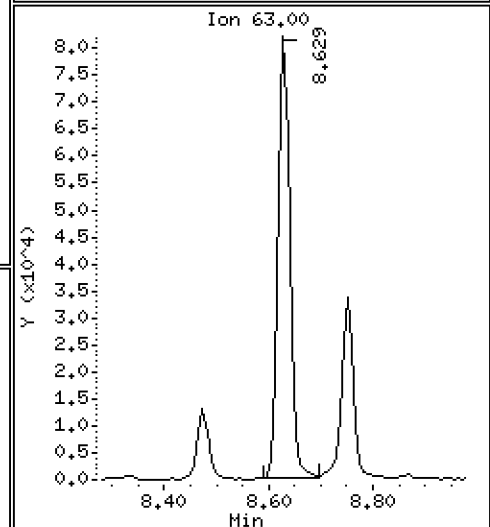
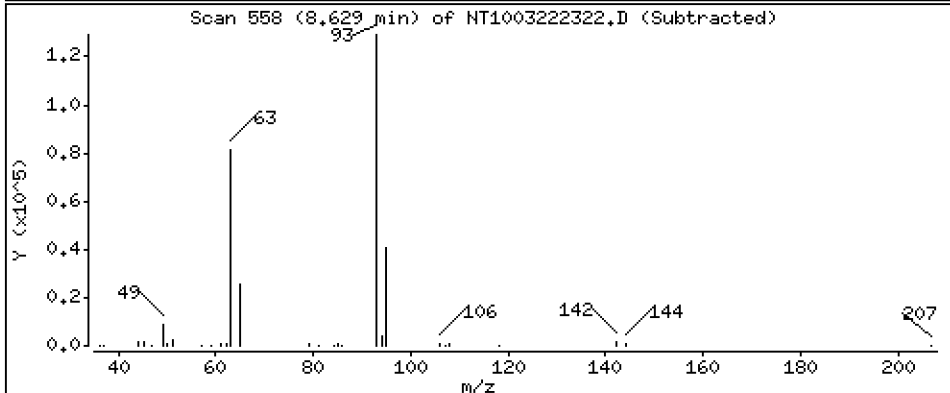
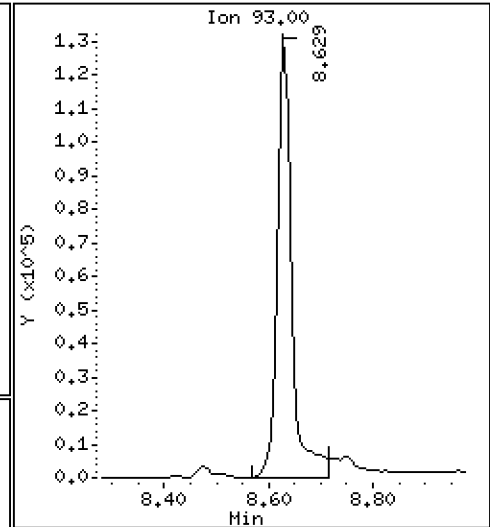
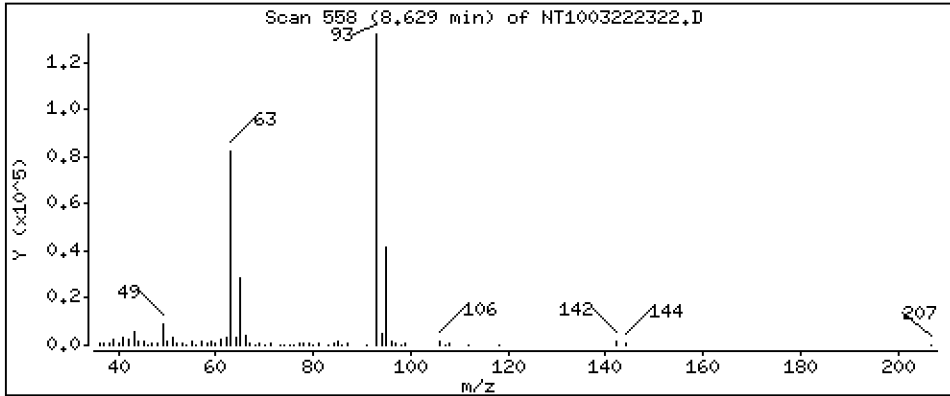
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 5,552 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

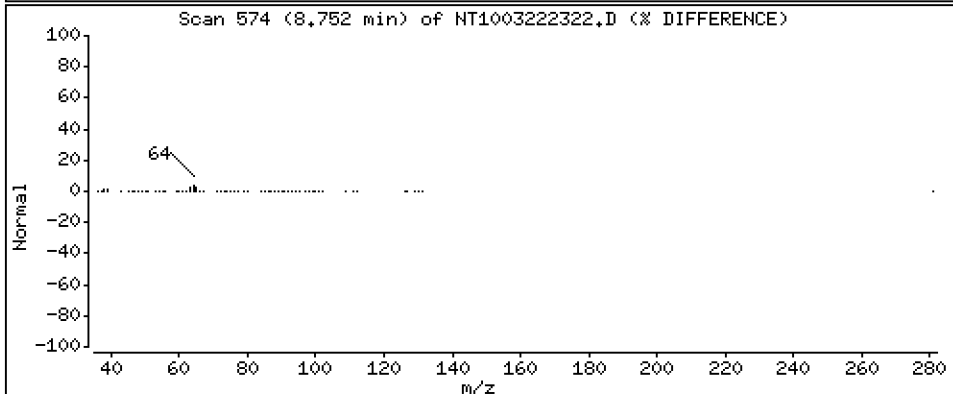
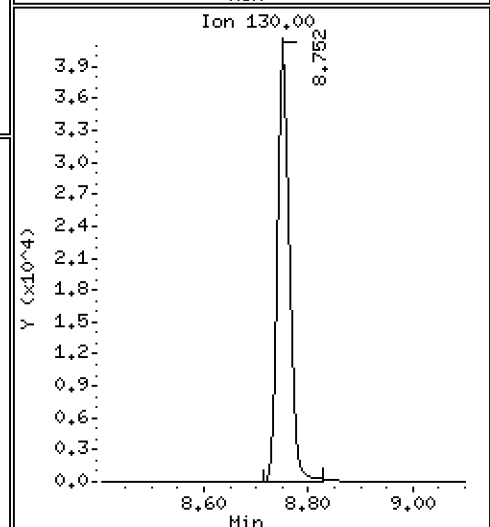
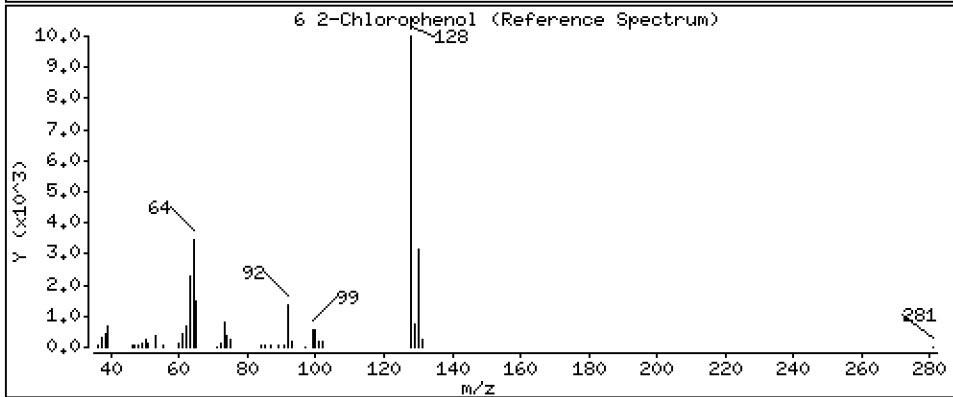
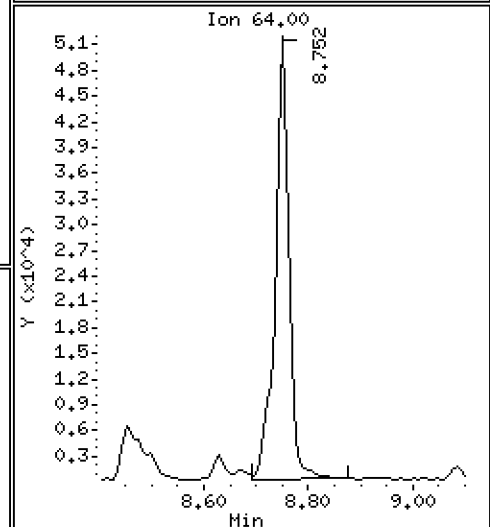
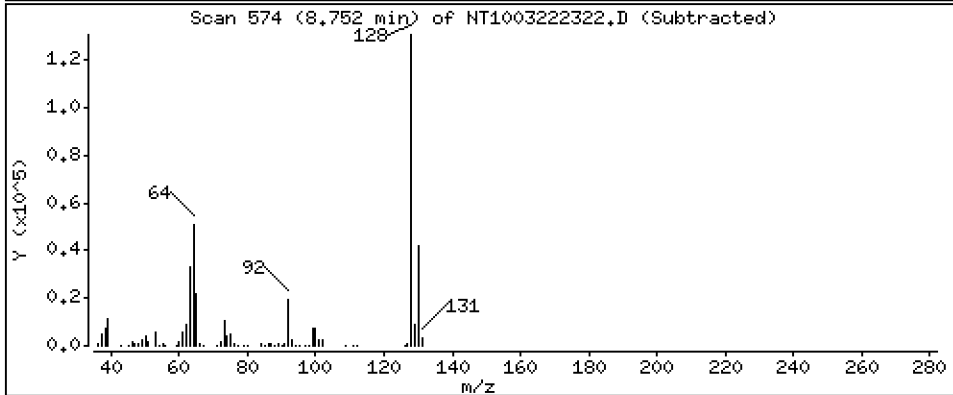
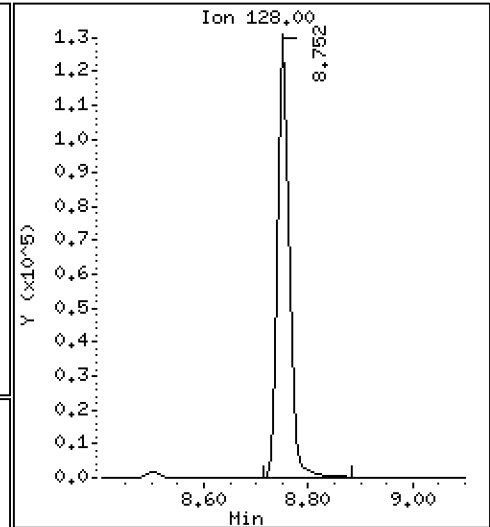
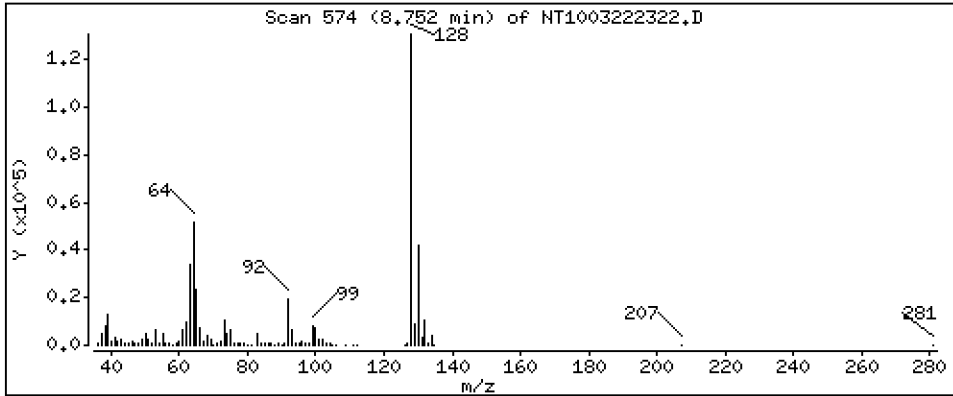
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 3,971 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

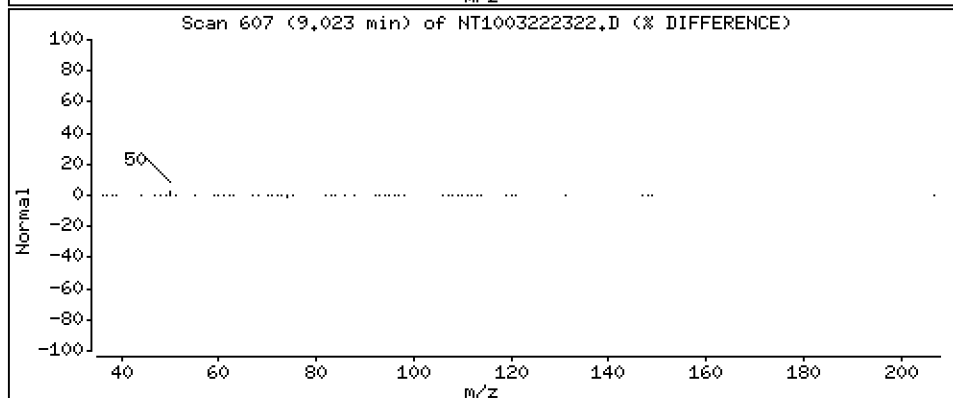
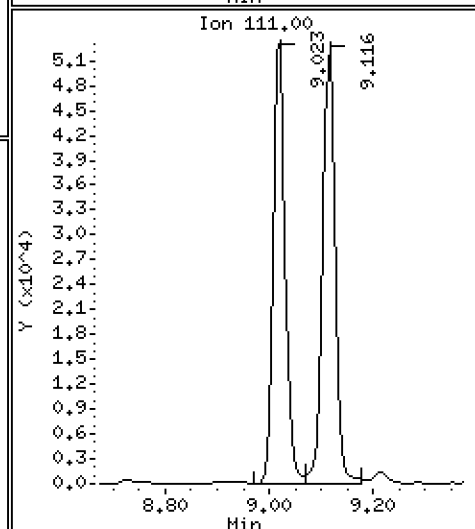
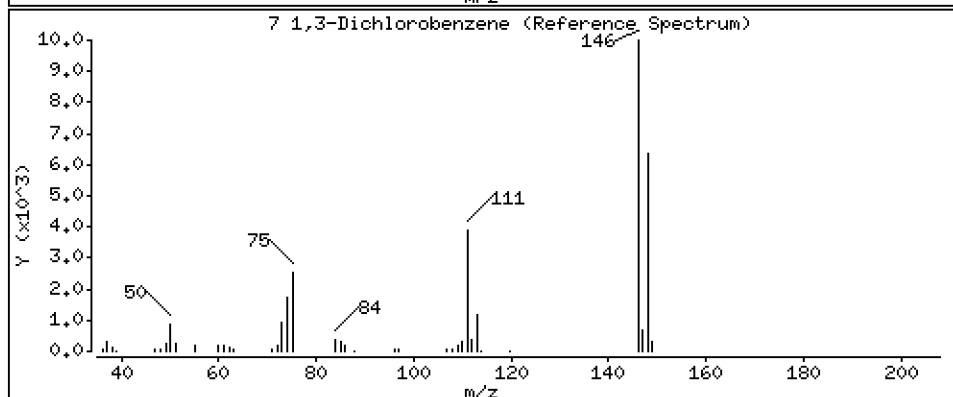
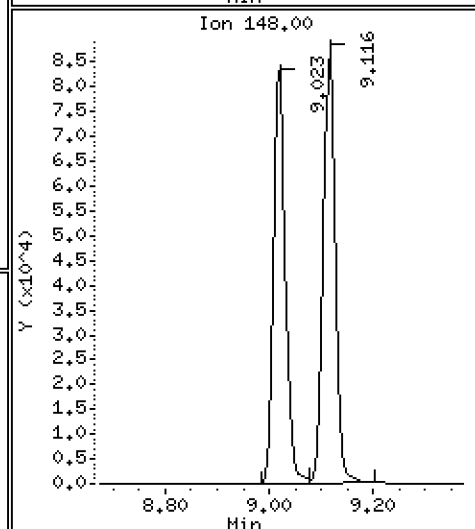
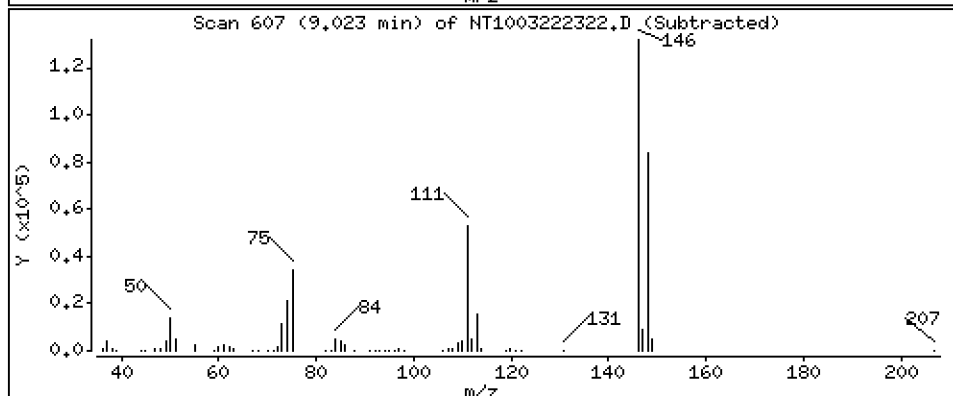
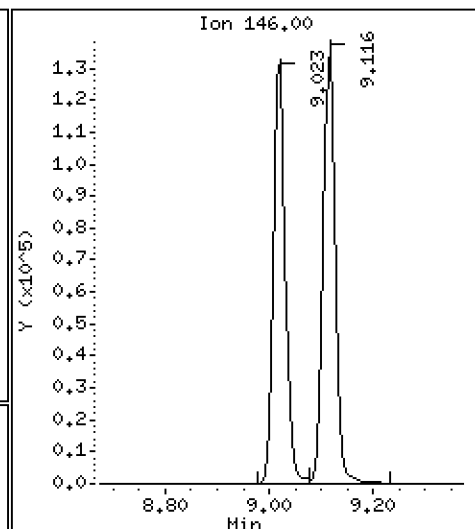
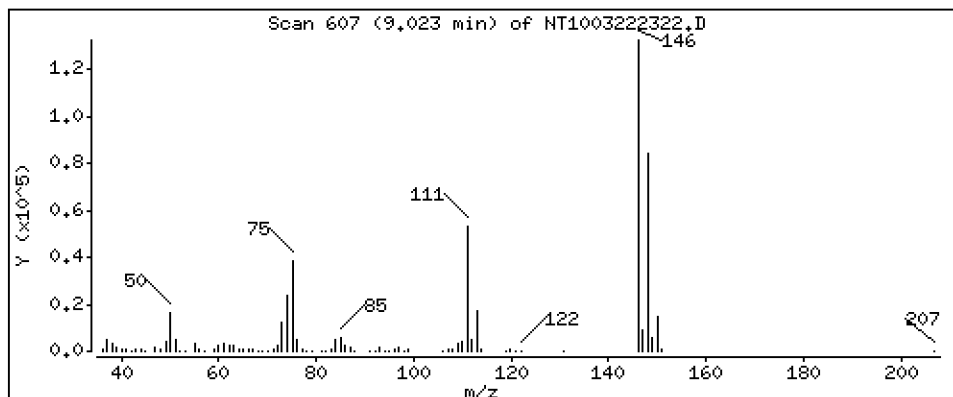
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 3,991 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

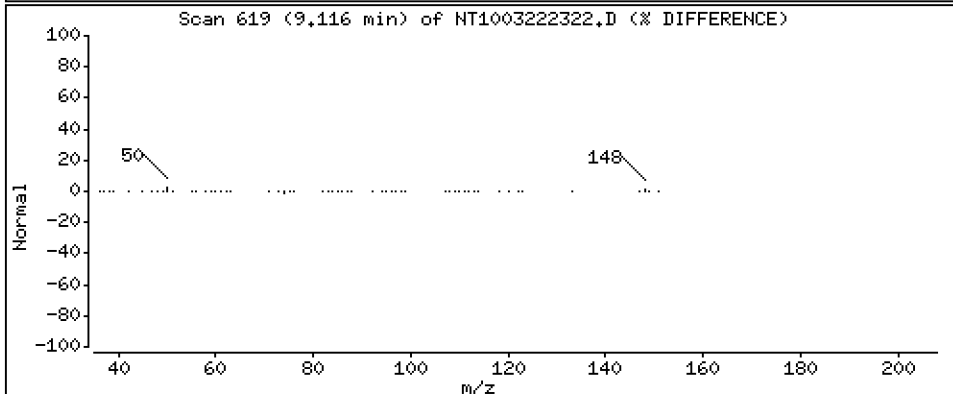
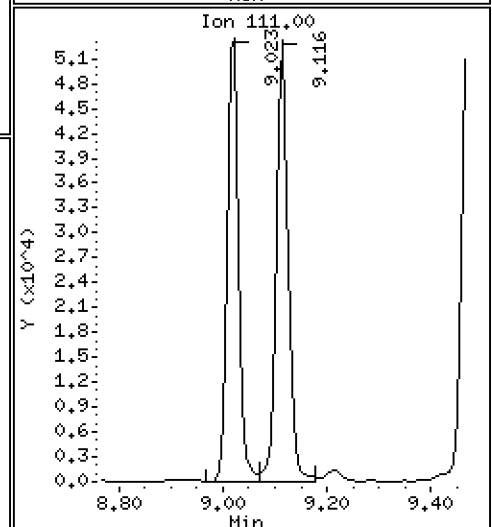
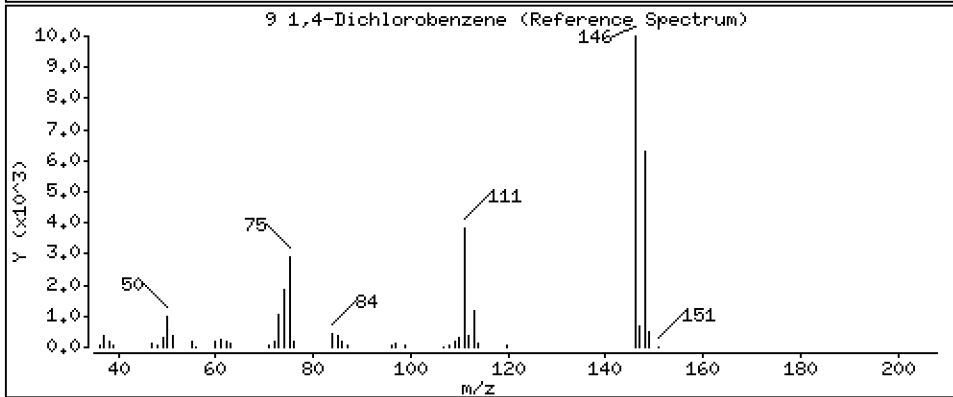
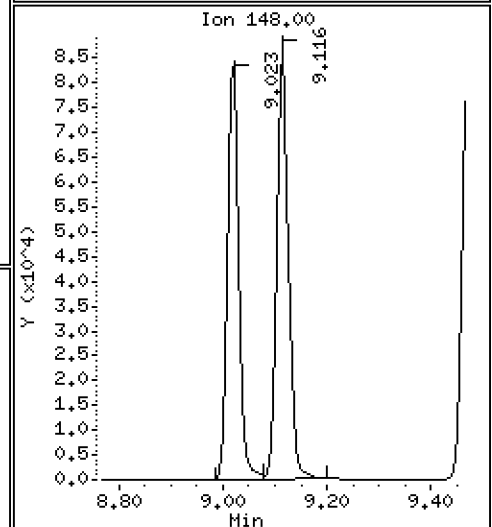
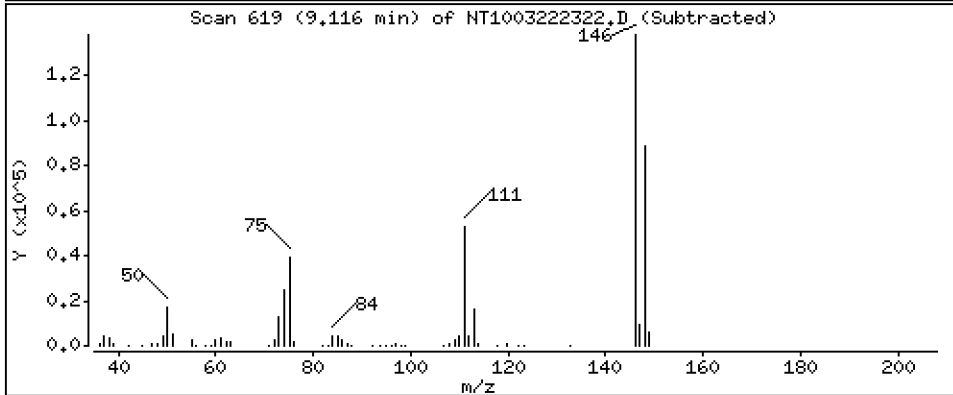
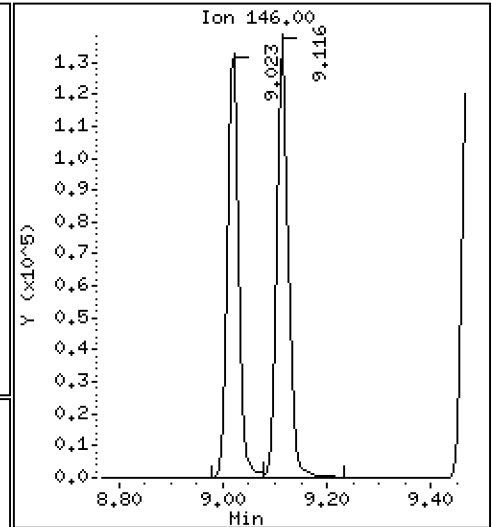
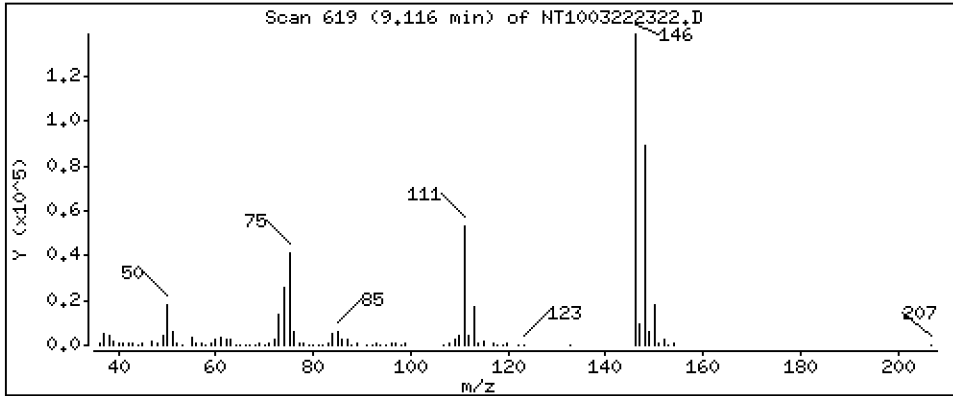
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,094 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

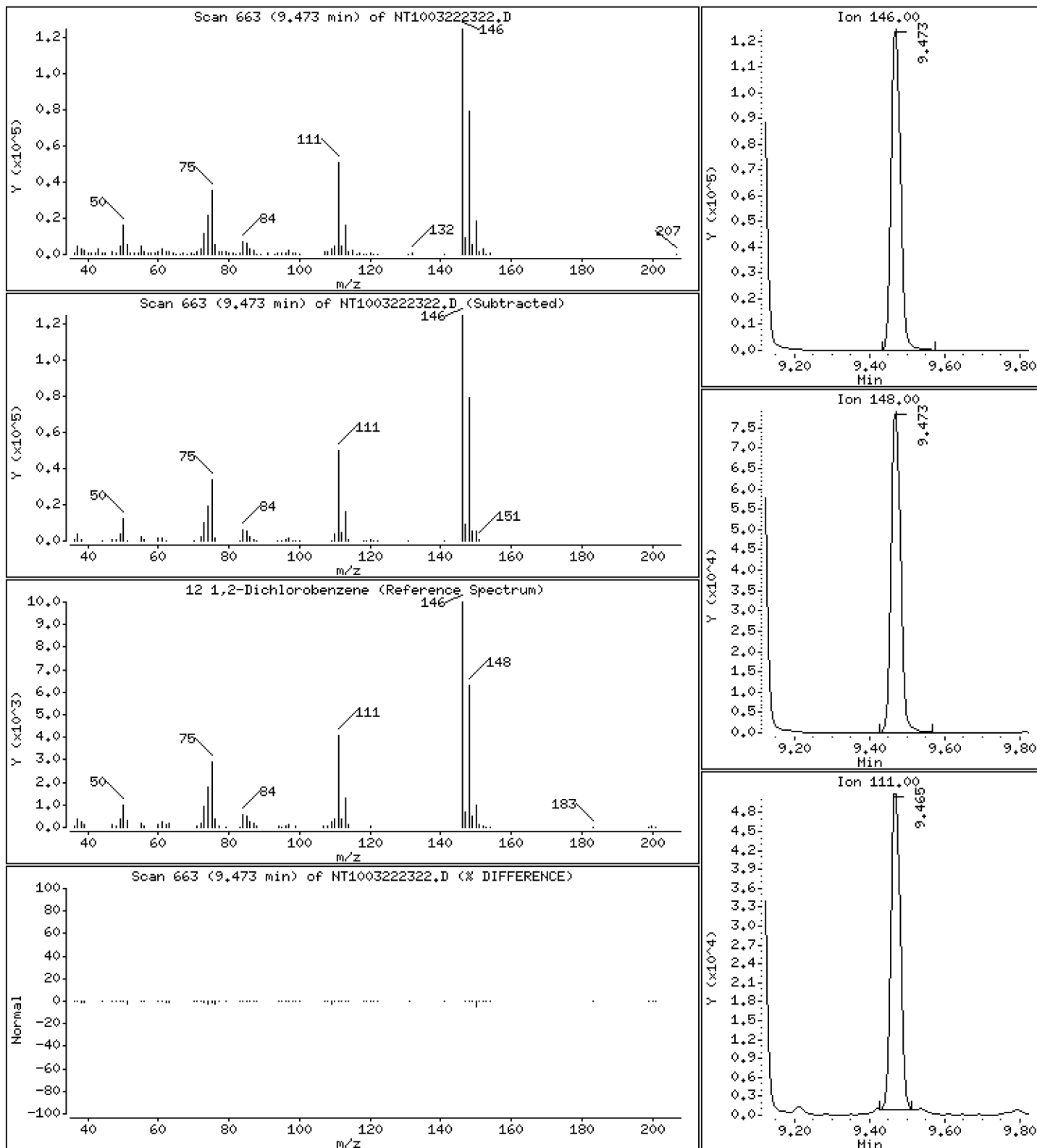
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,109 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

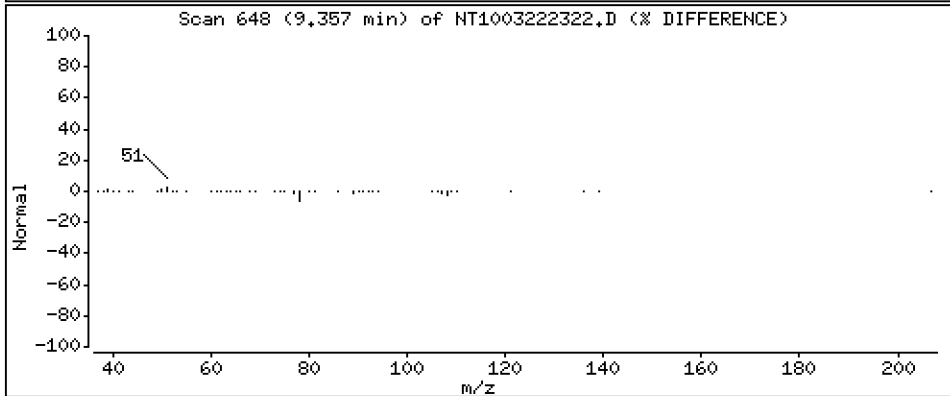
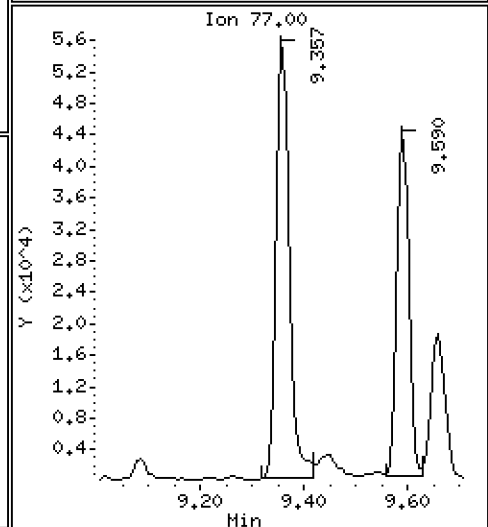
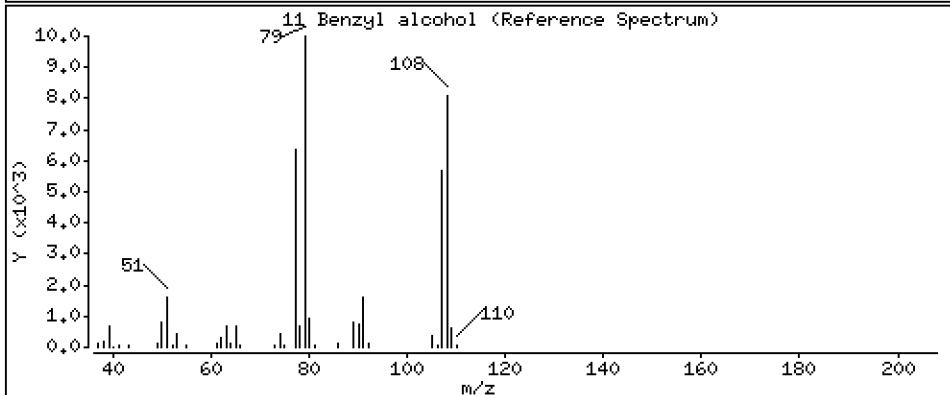
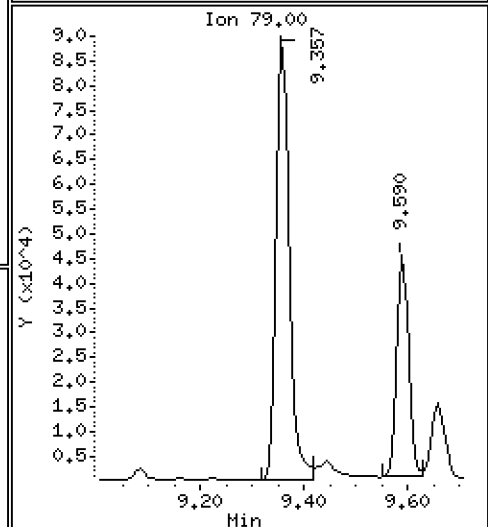
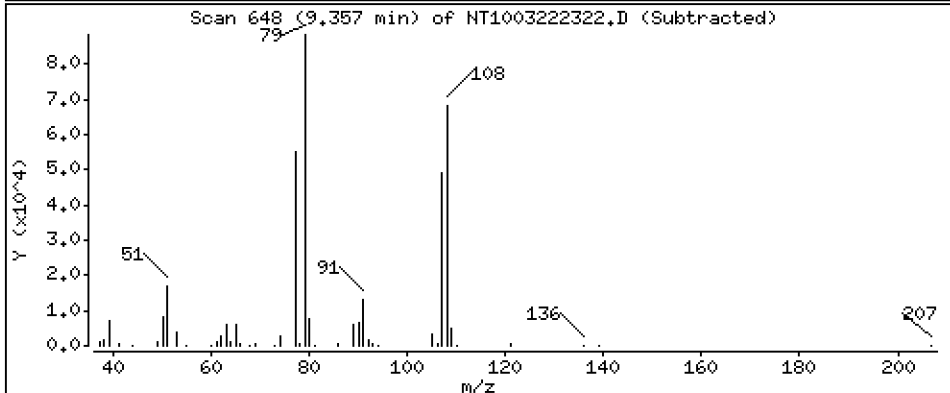
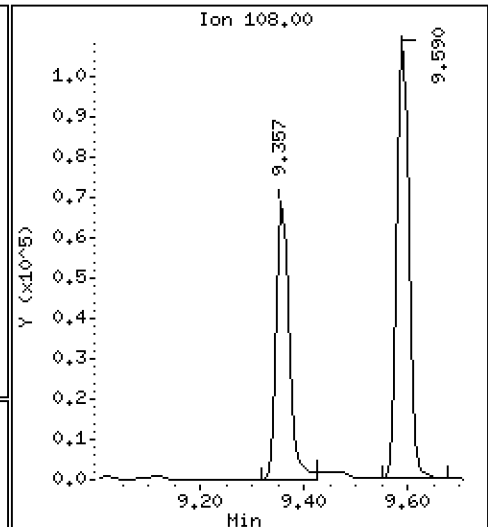
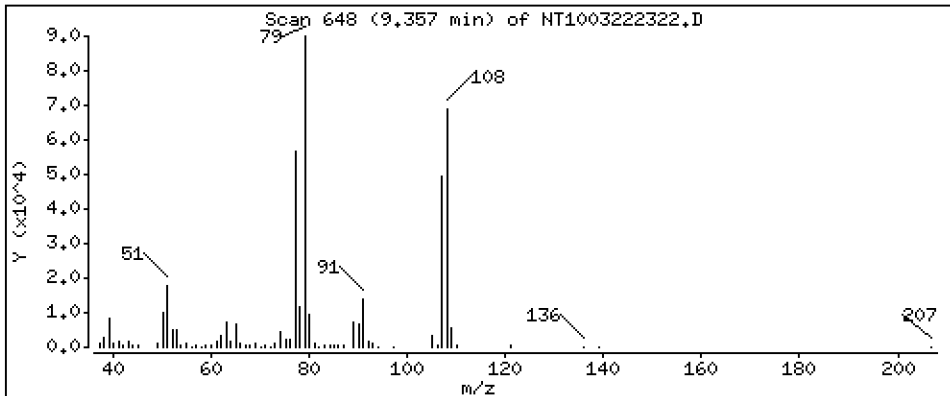
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 4,180 ug/mL





Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

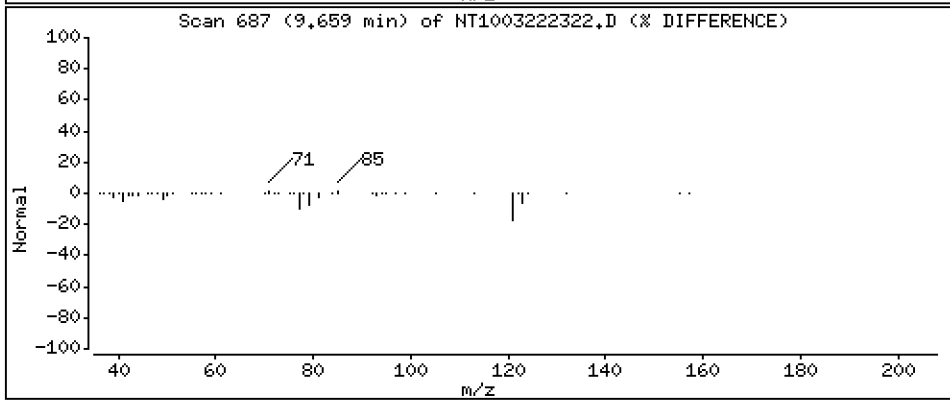
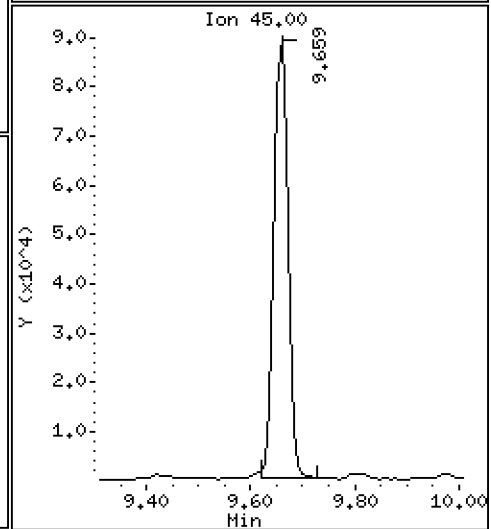
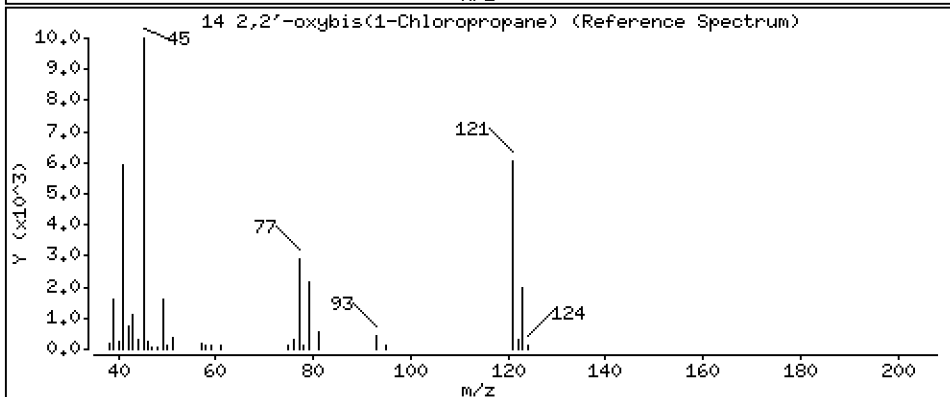
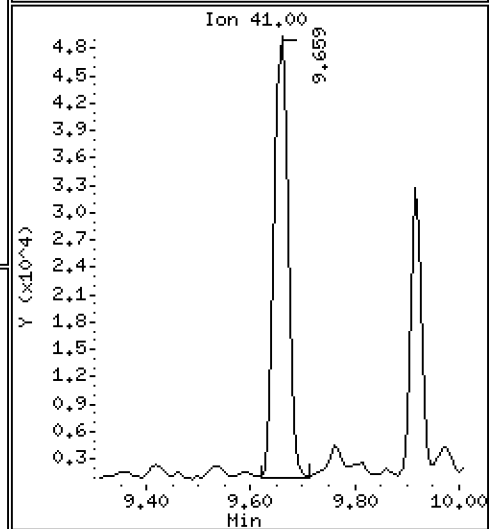
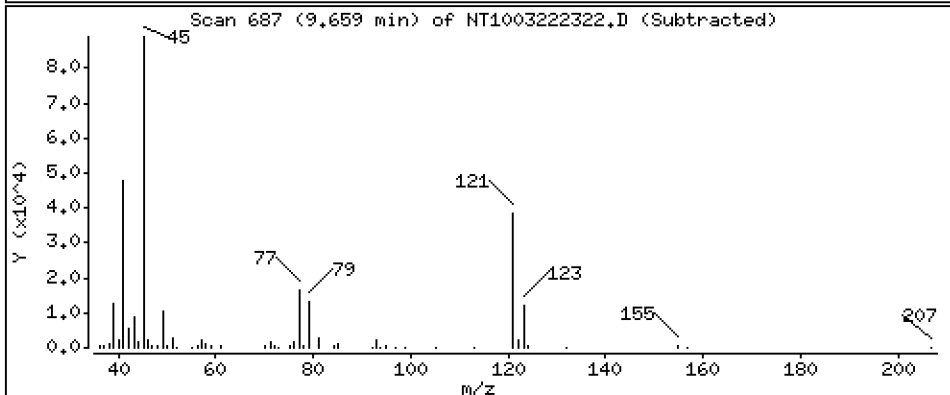
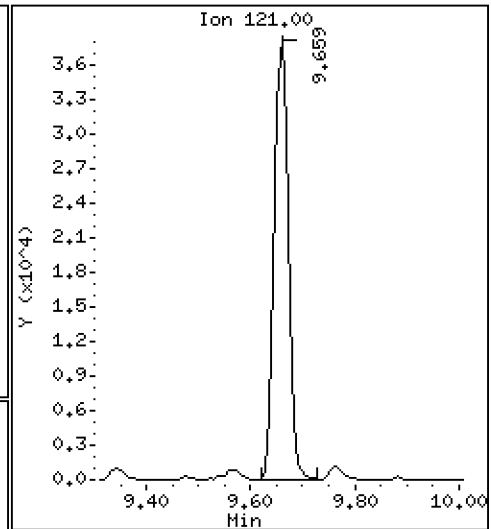
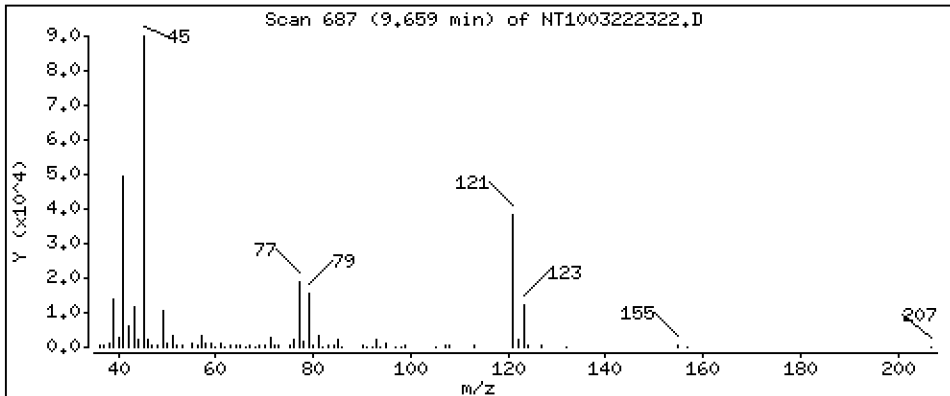
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 4.708 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

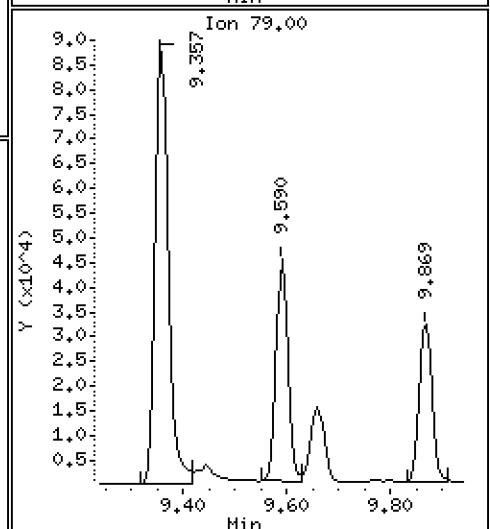
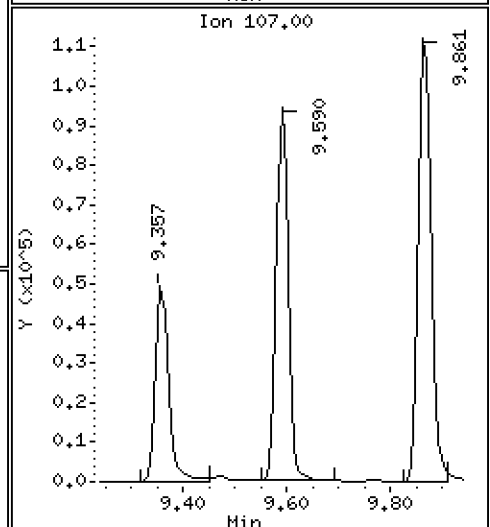
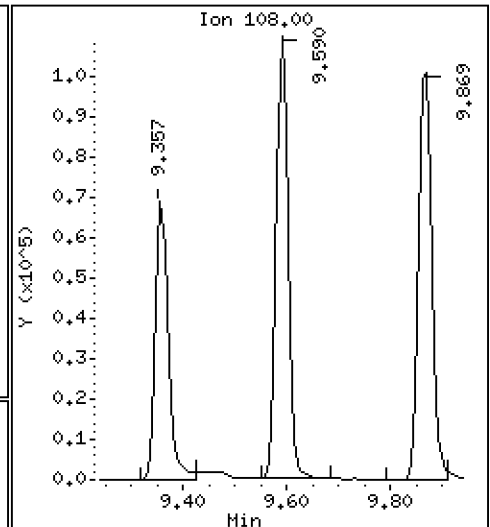
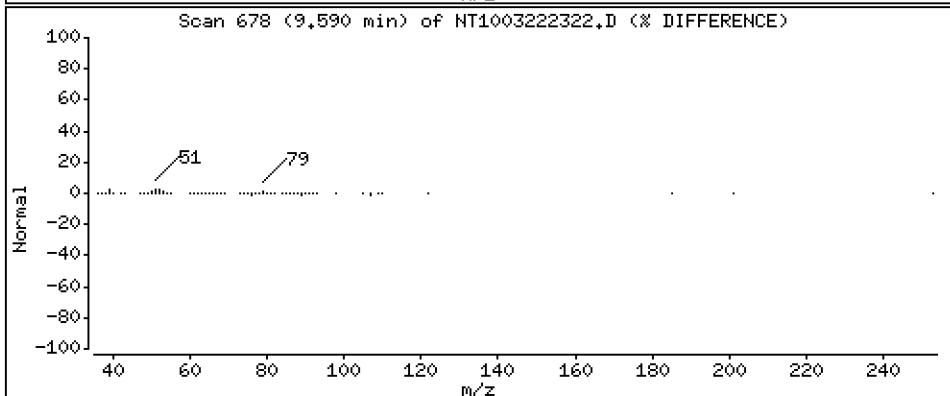
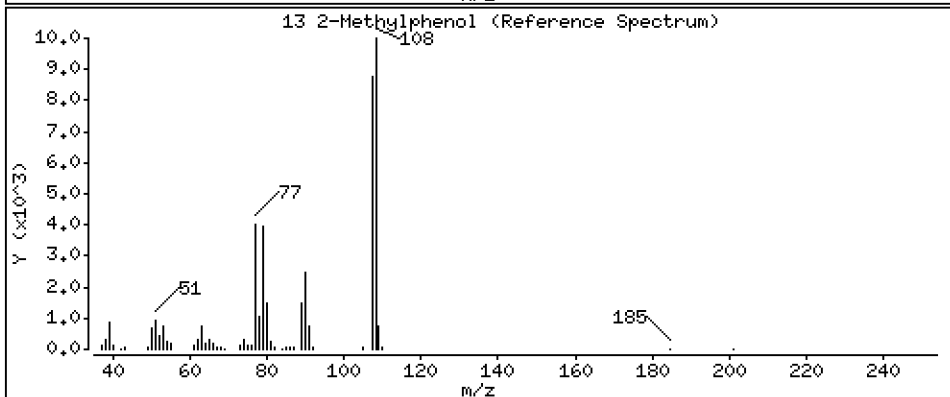
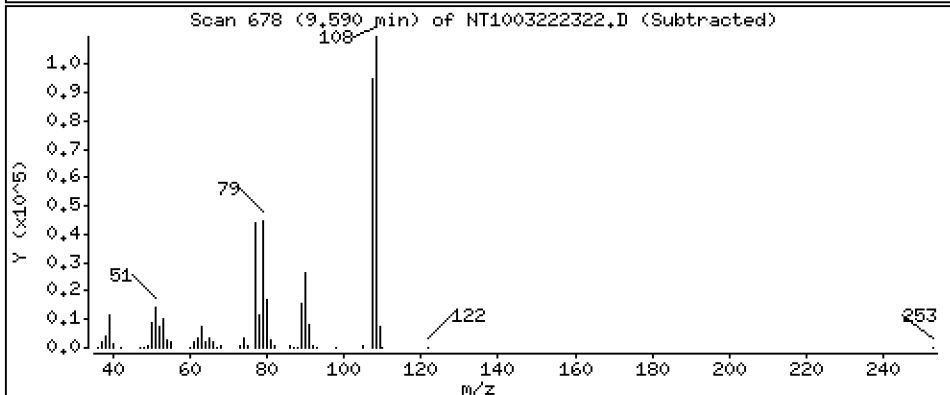
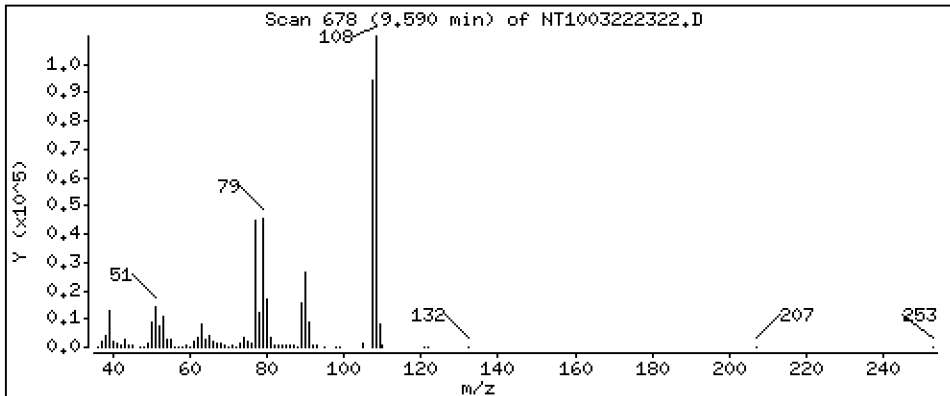
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 3,913 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

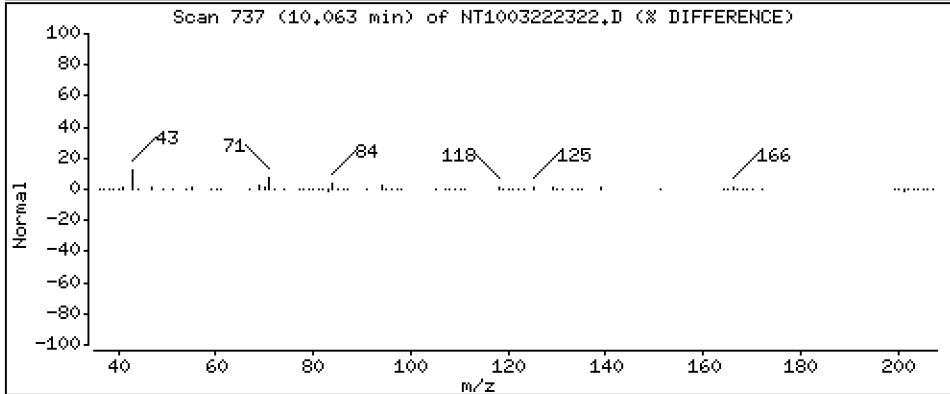
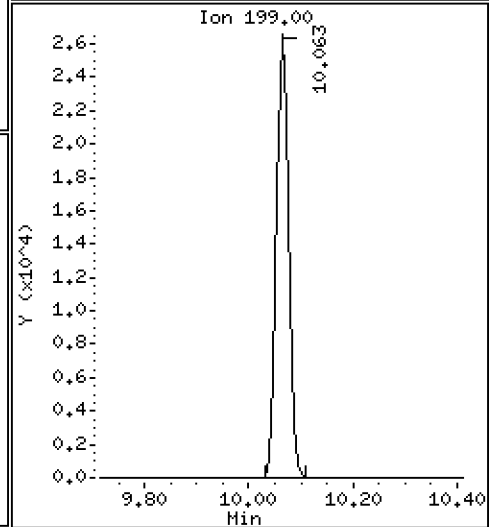
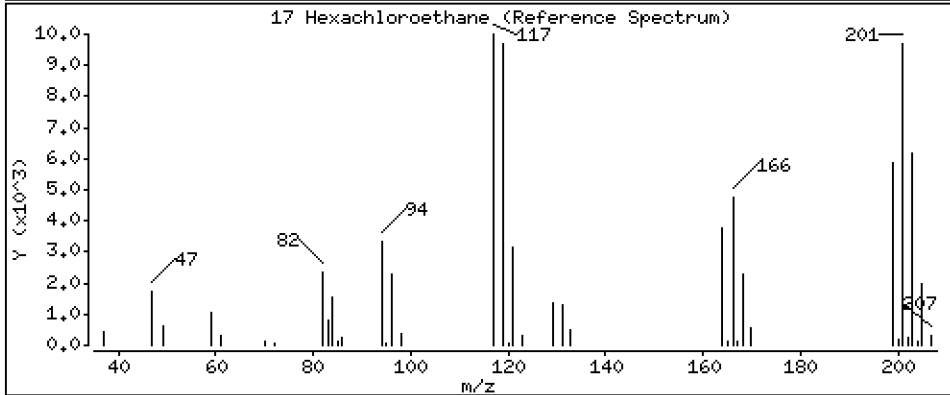
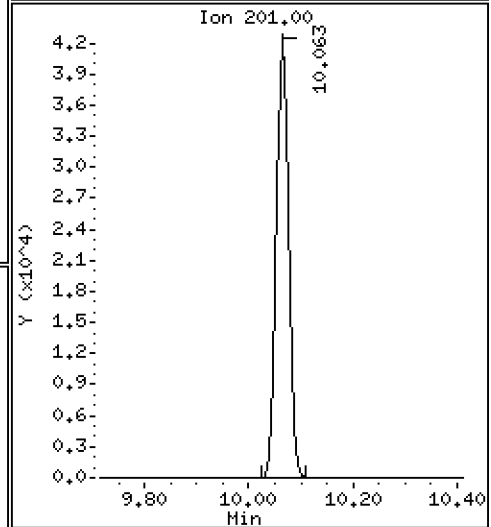
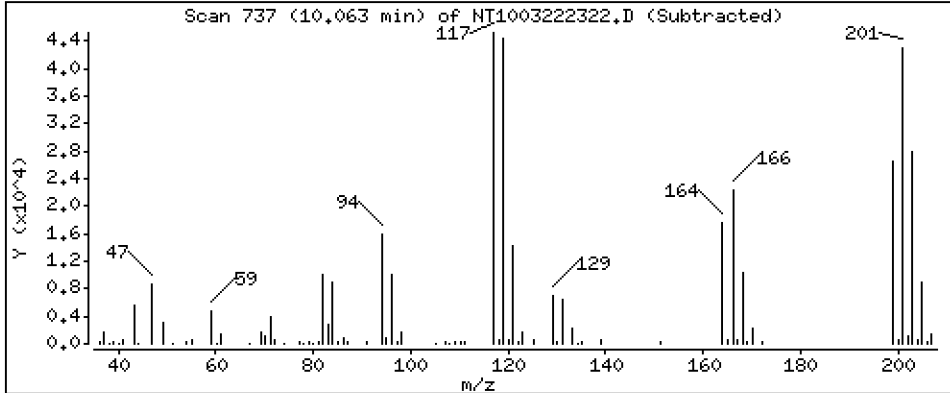
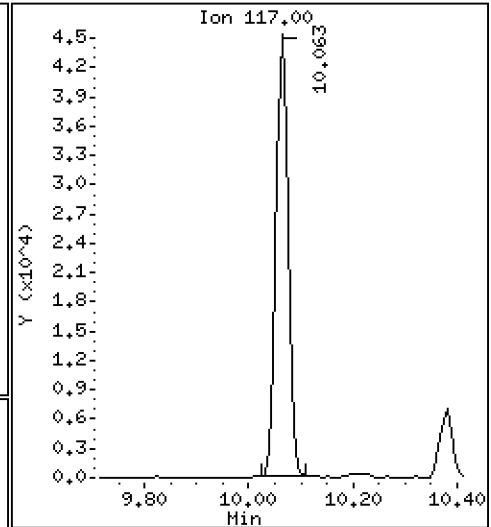
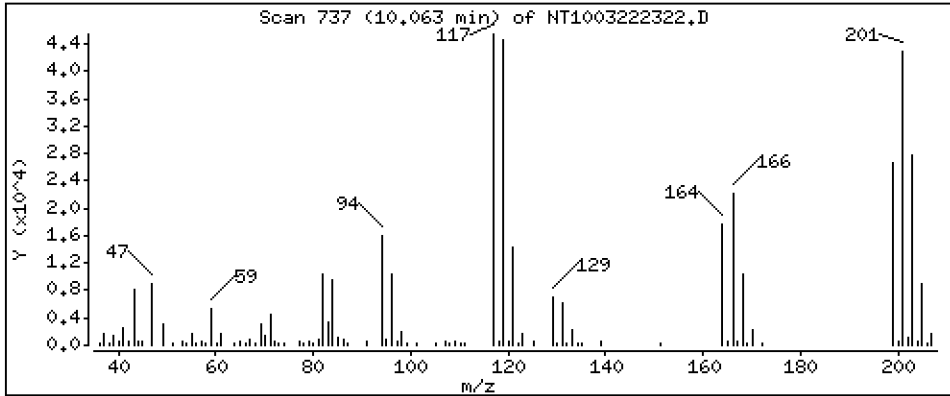
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 3,335 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

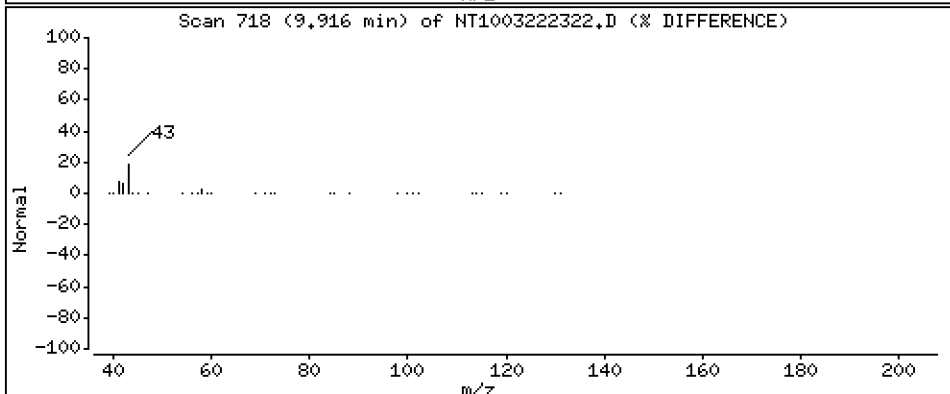
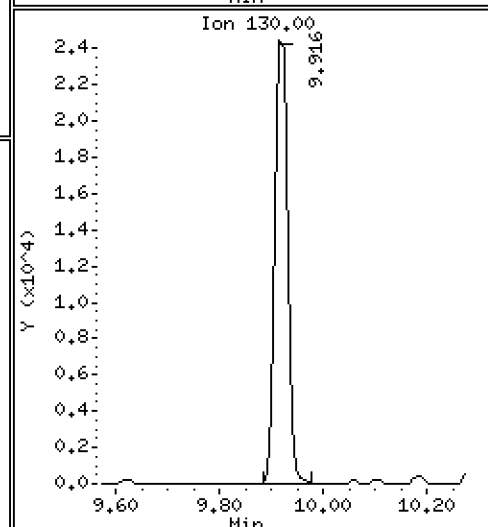
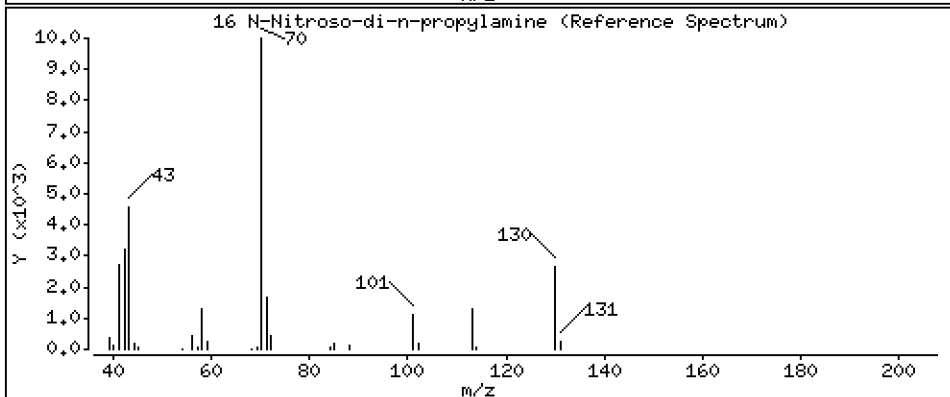
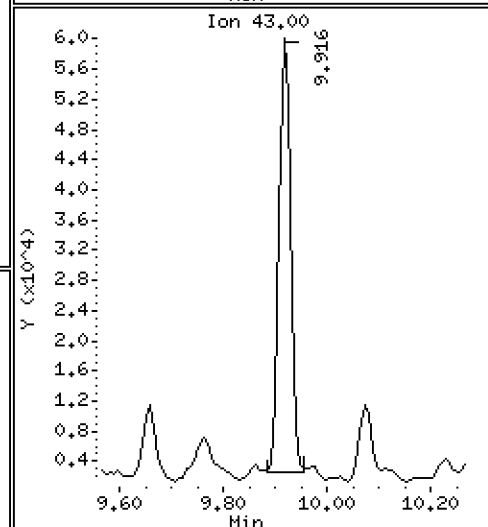
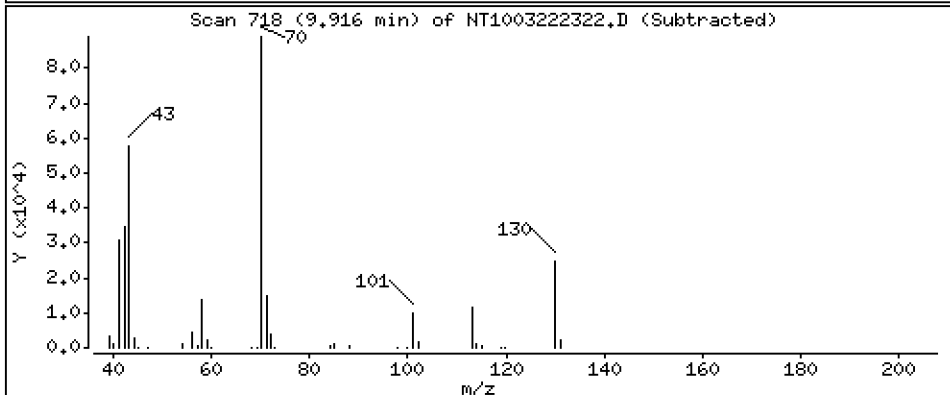
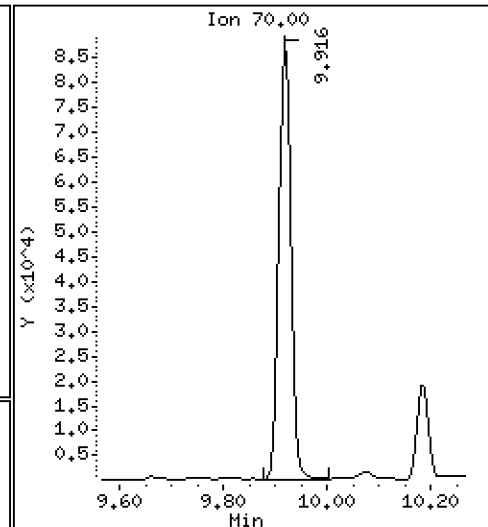
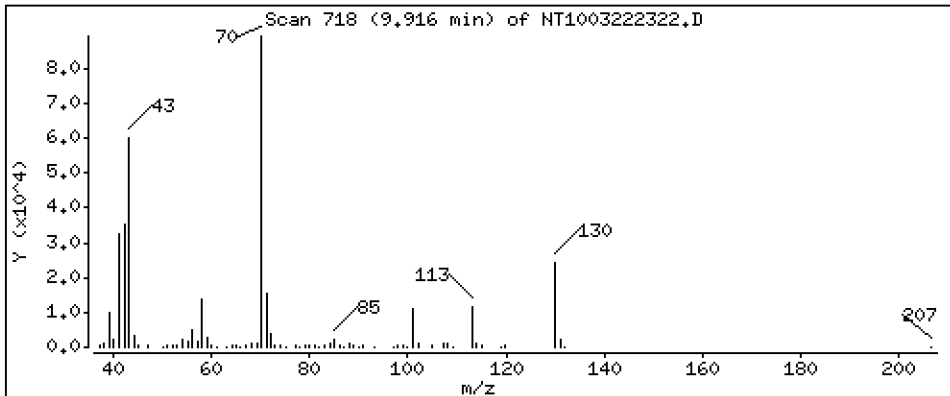
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 4,013 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

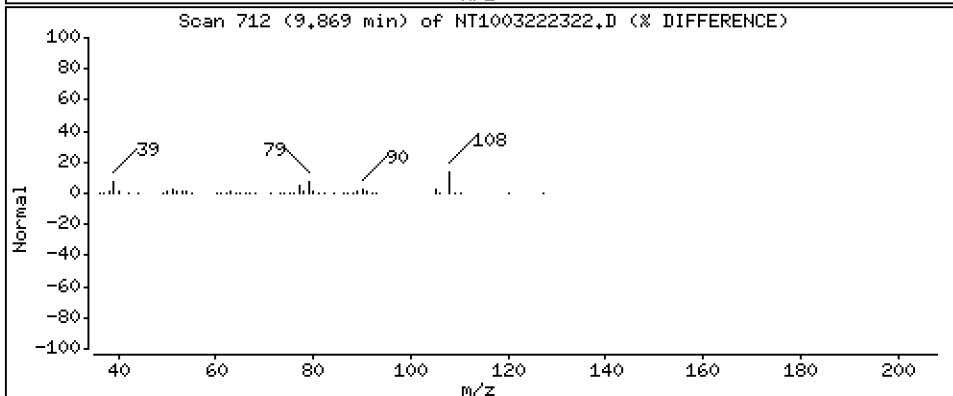
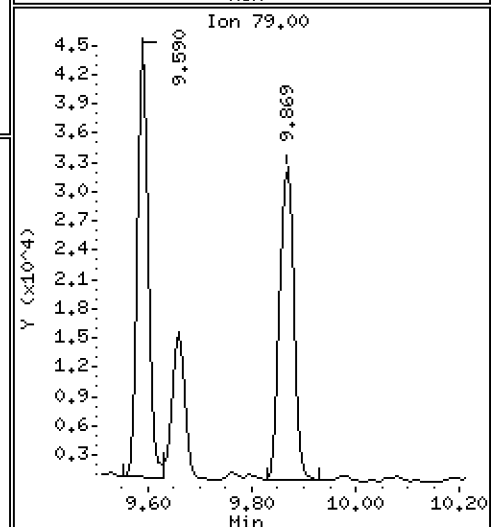
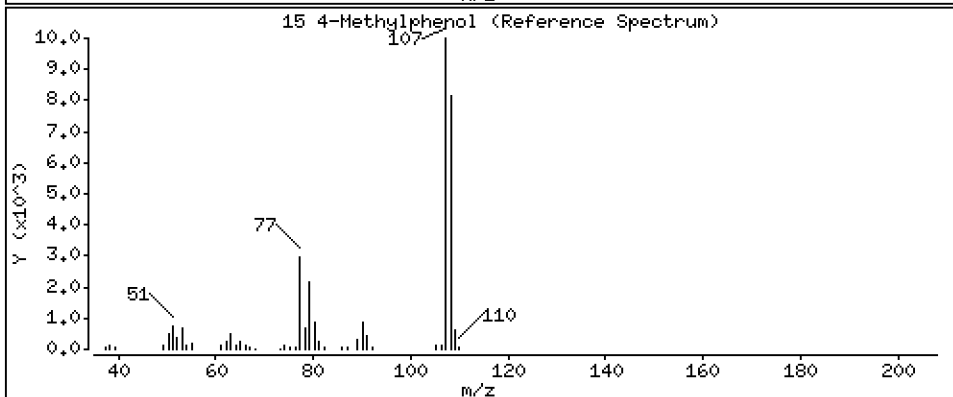
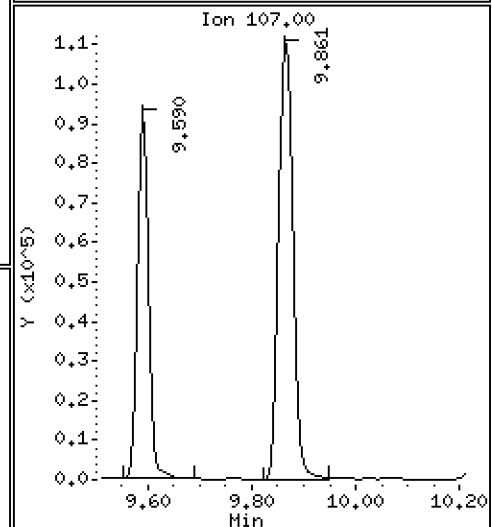
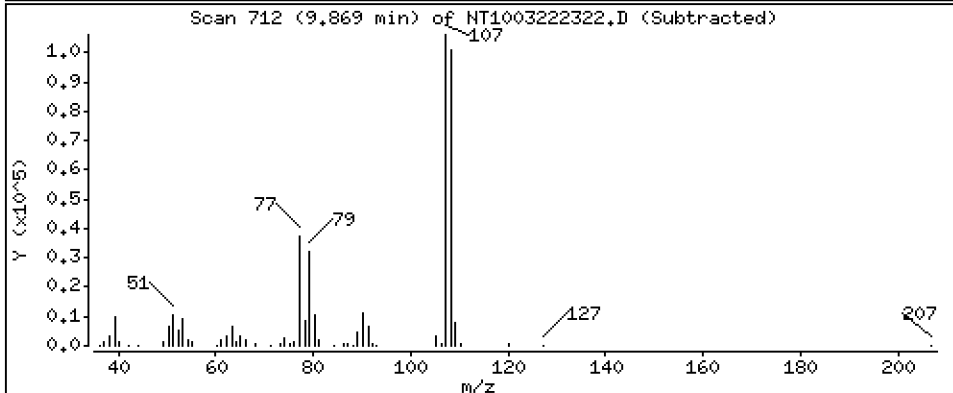
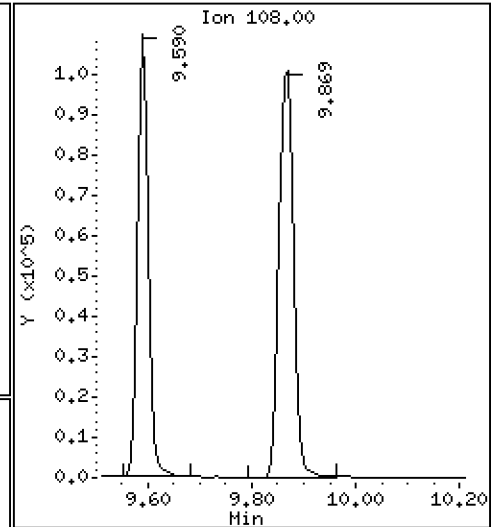
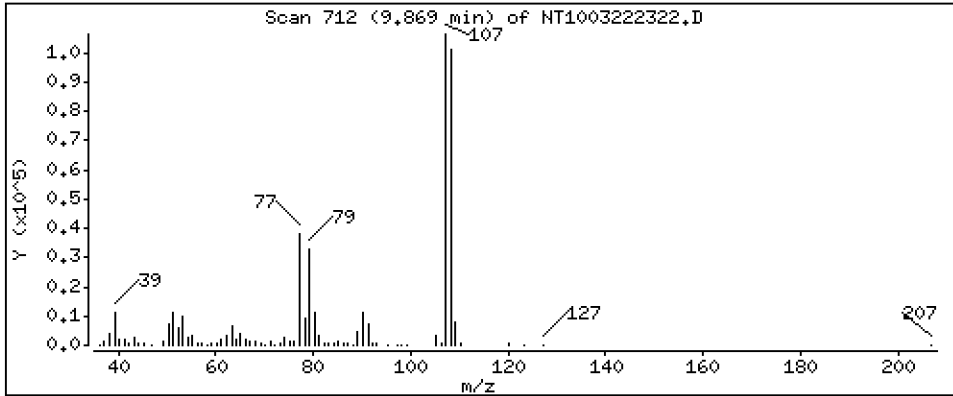
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,734 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

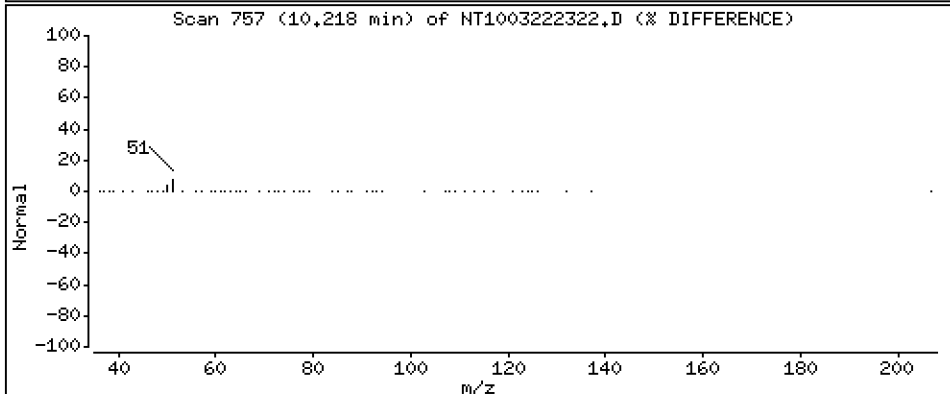
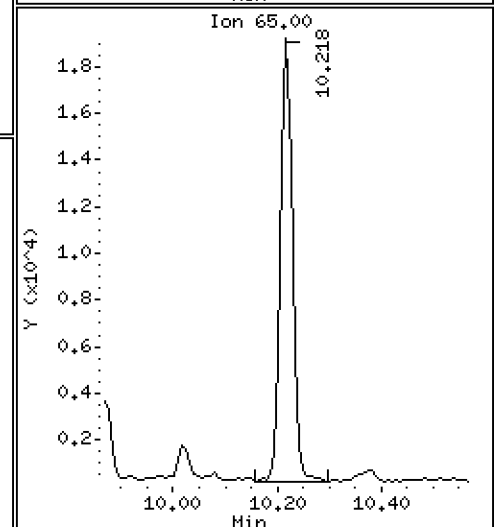
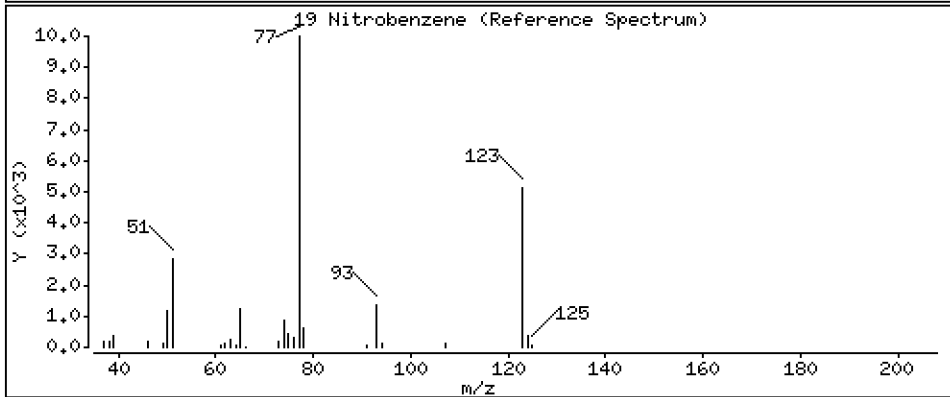
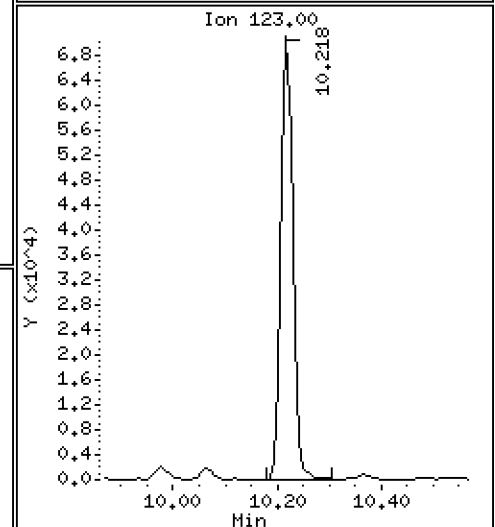
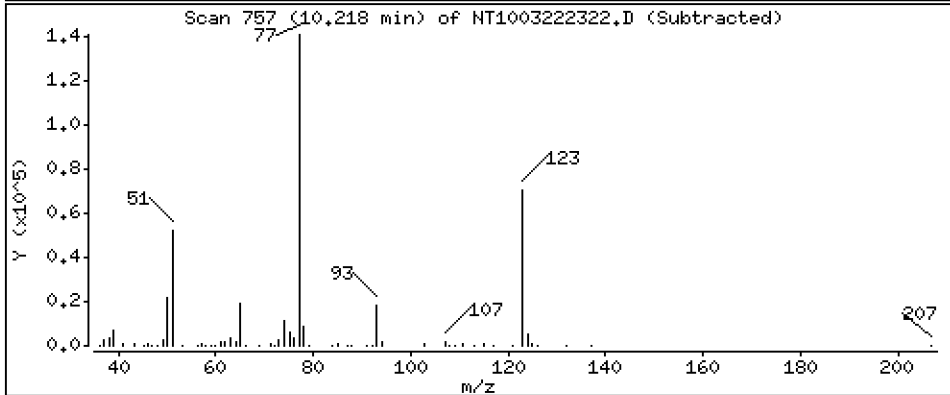
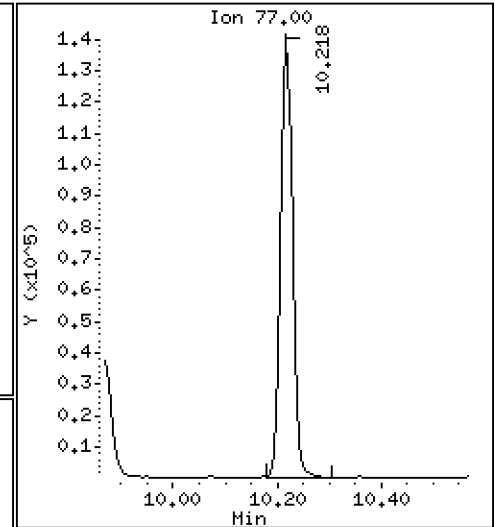
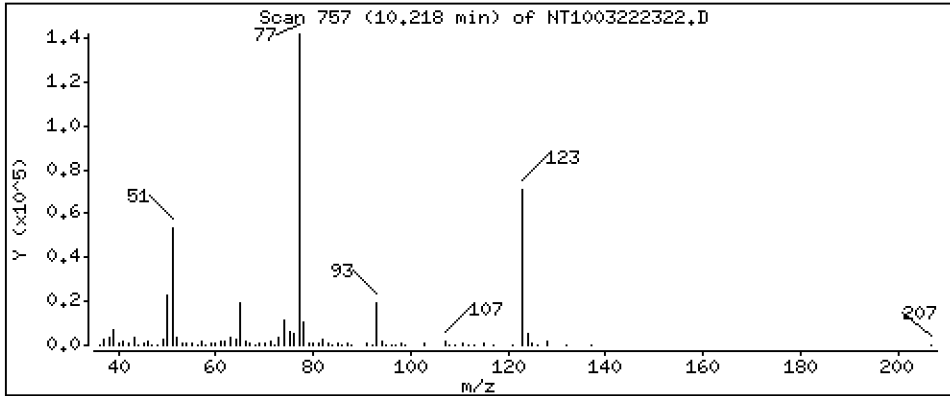
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,135 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

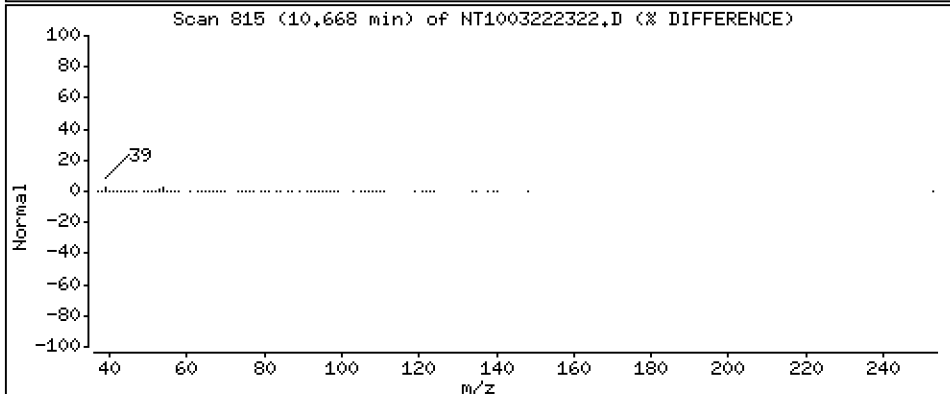
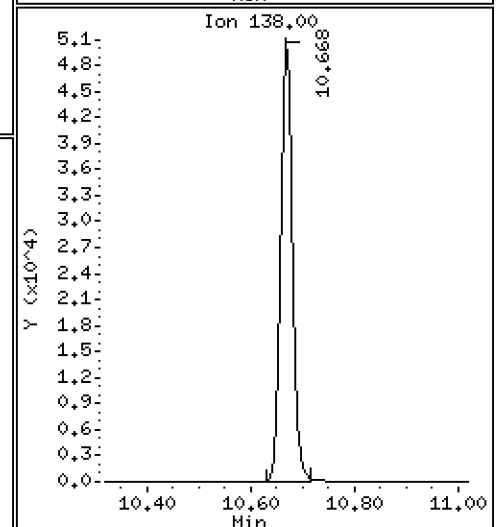
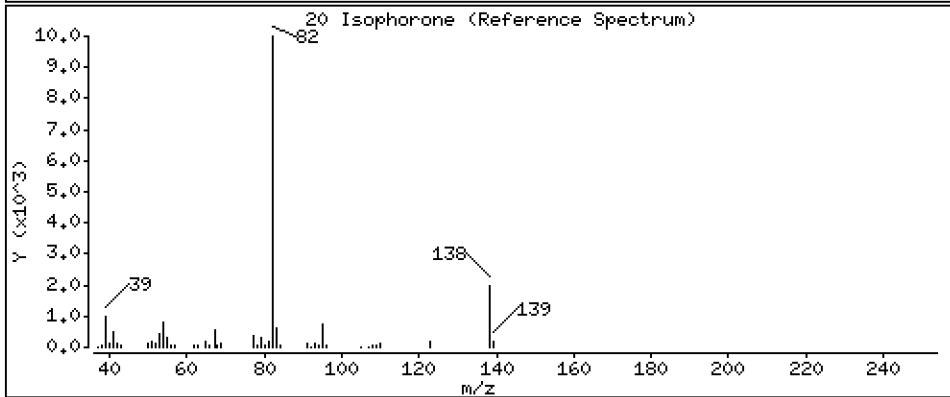
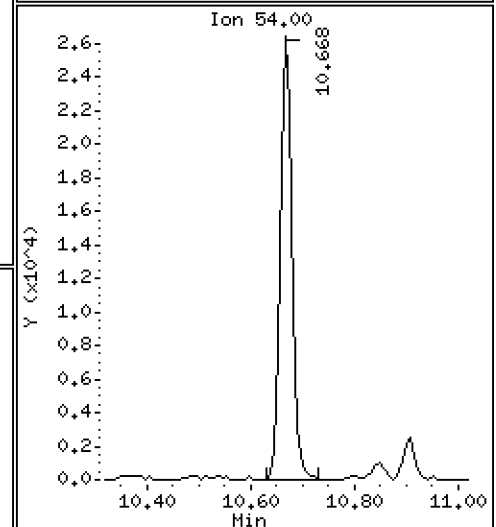
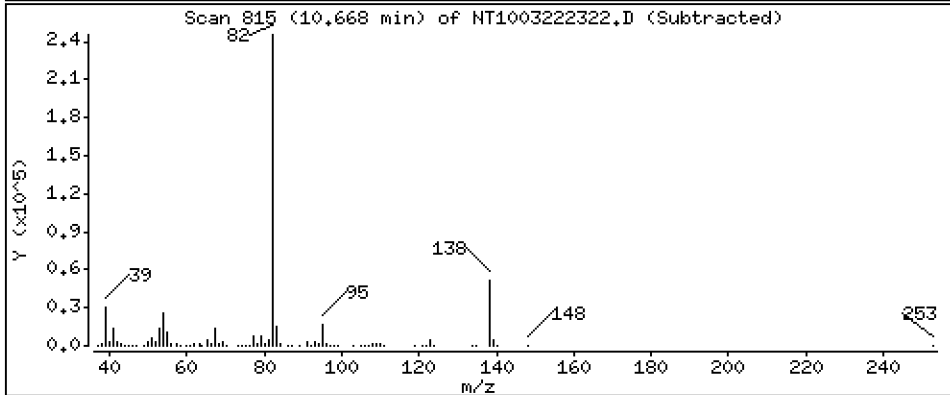
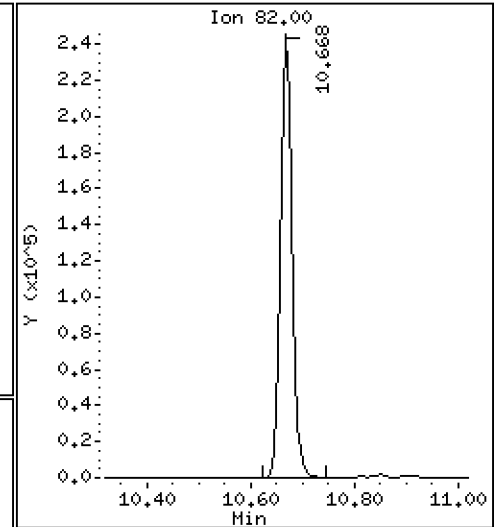
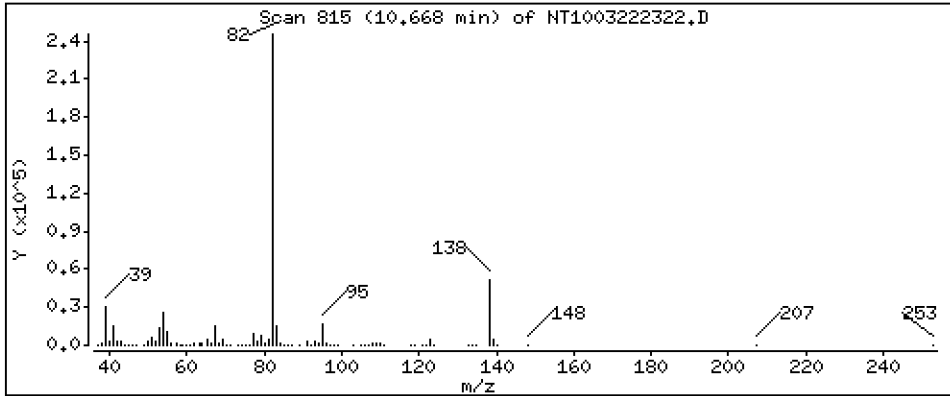
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 6,014 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

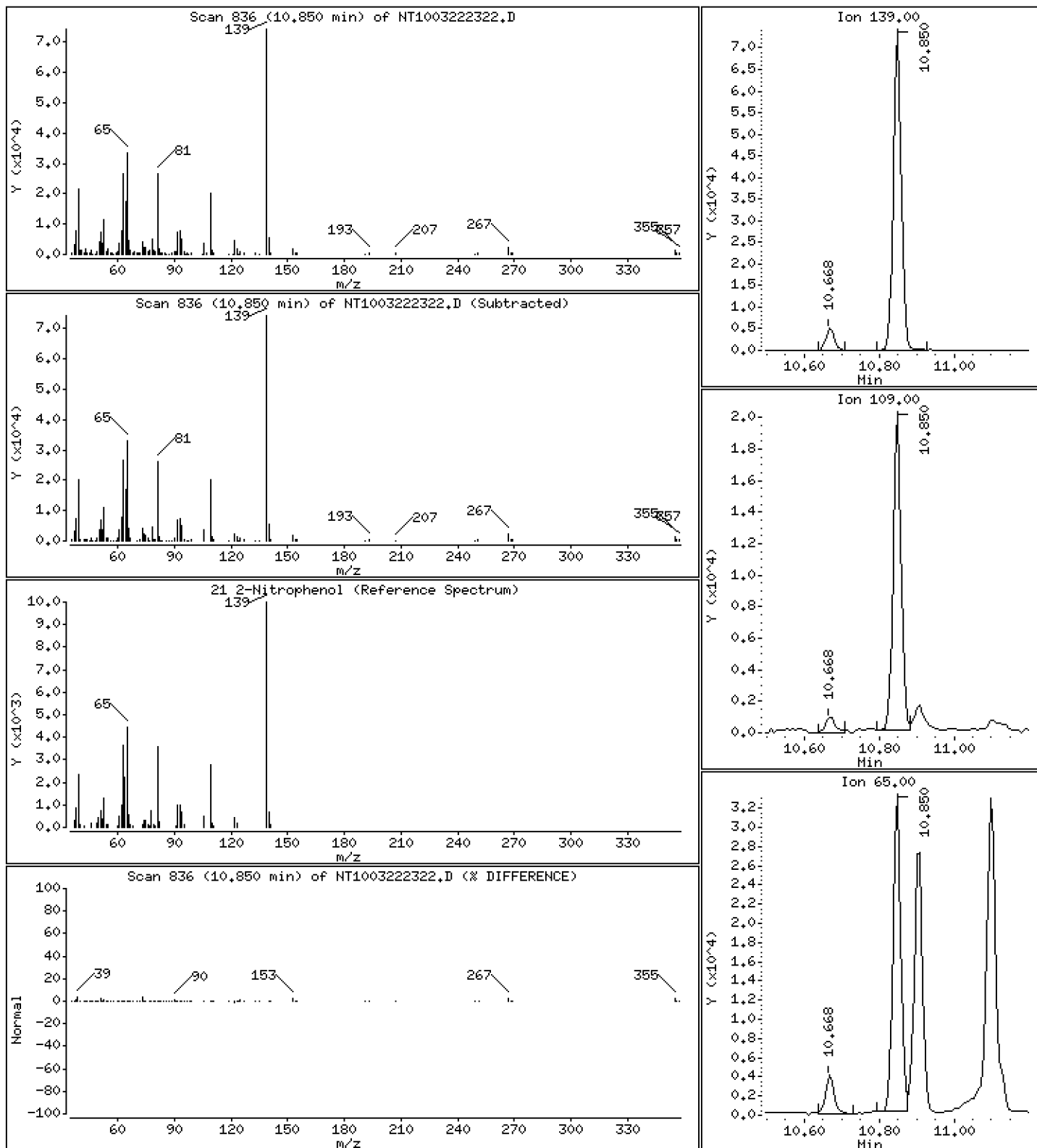
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 5,138 ug/mL





Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

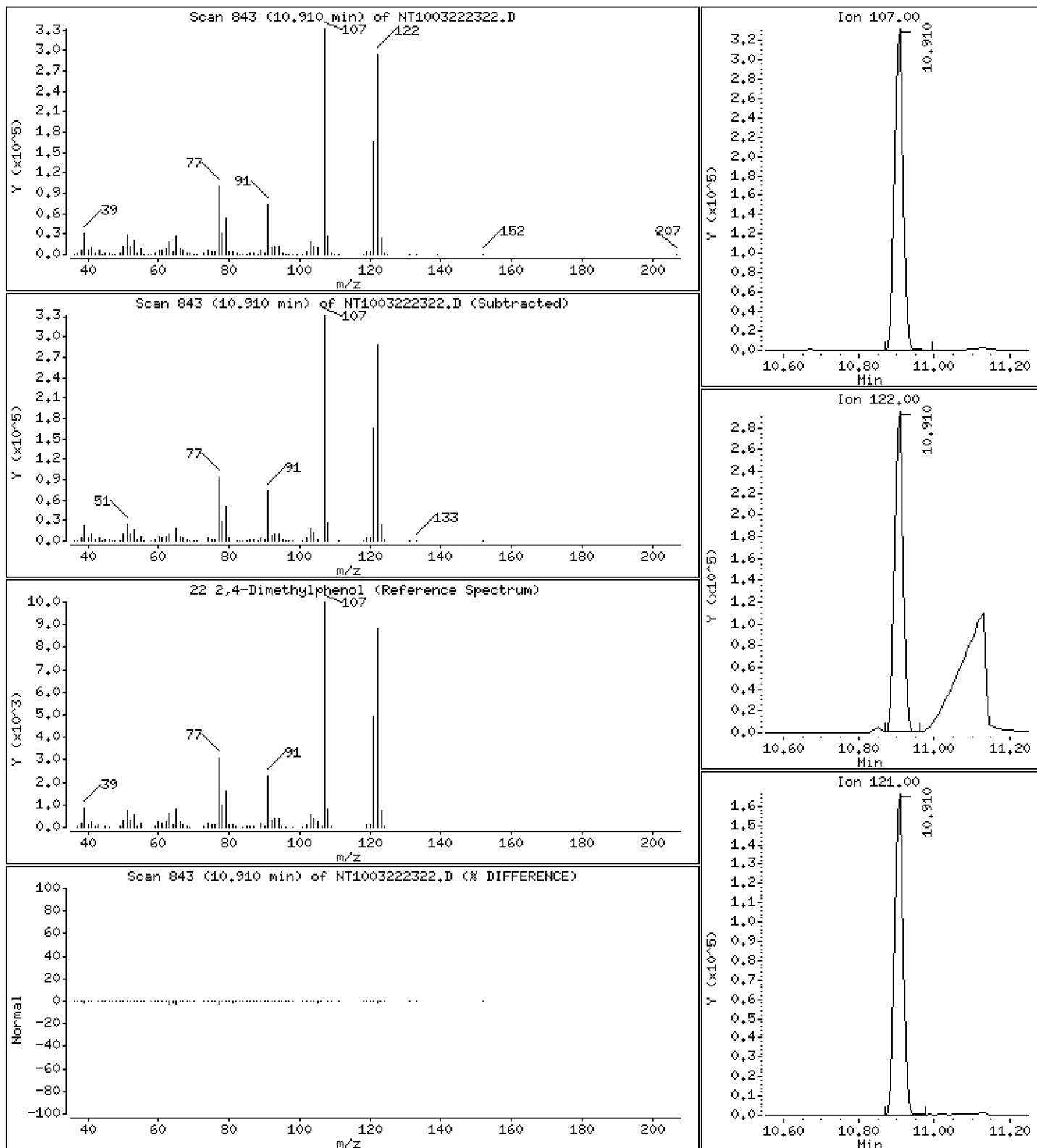
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 11,10 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

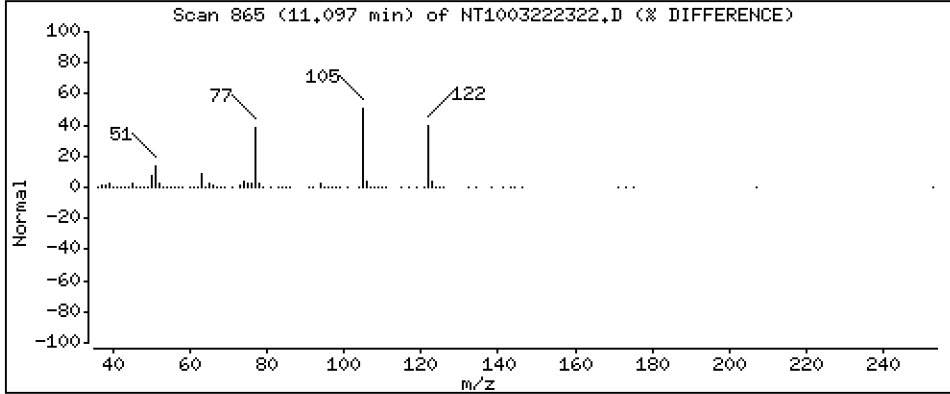
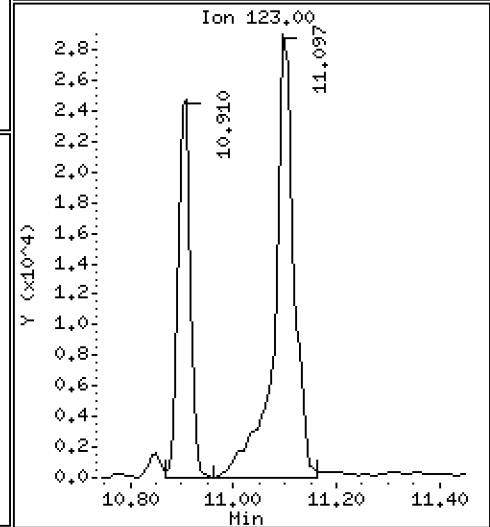
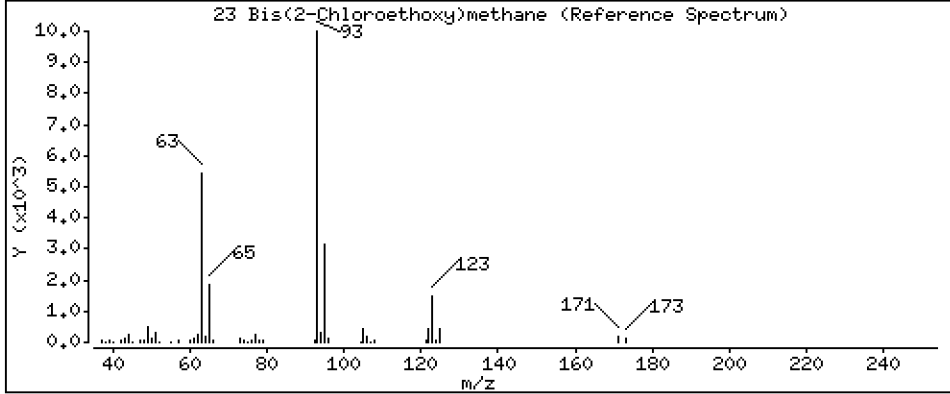
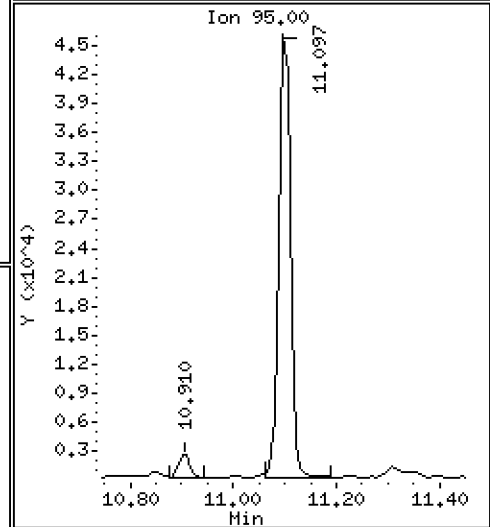
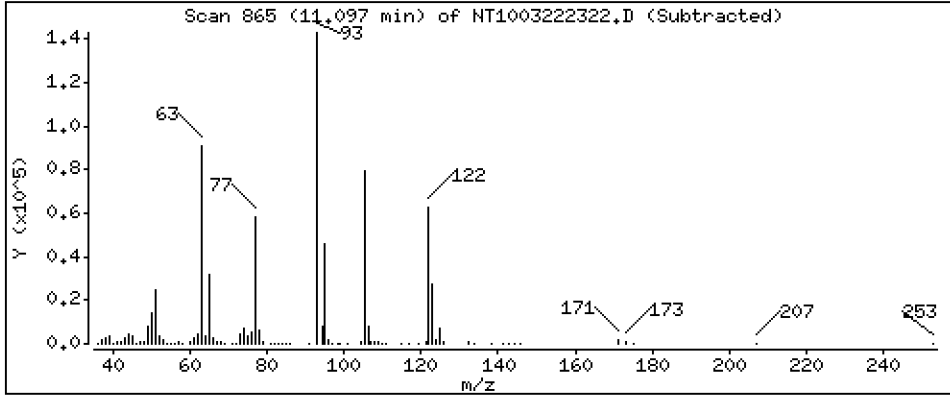
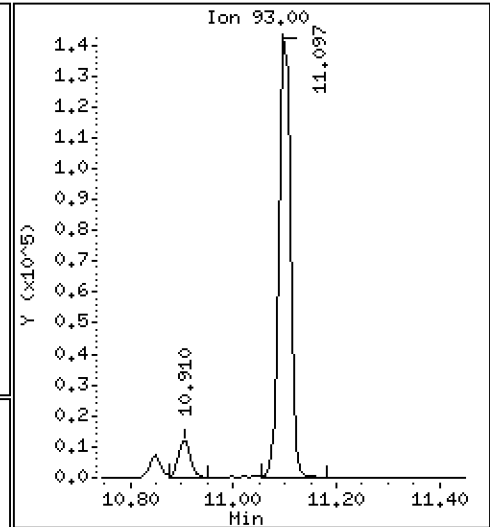
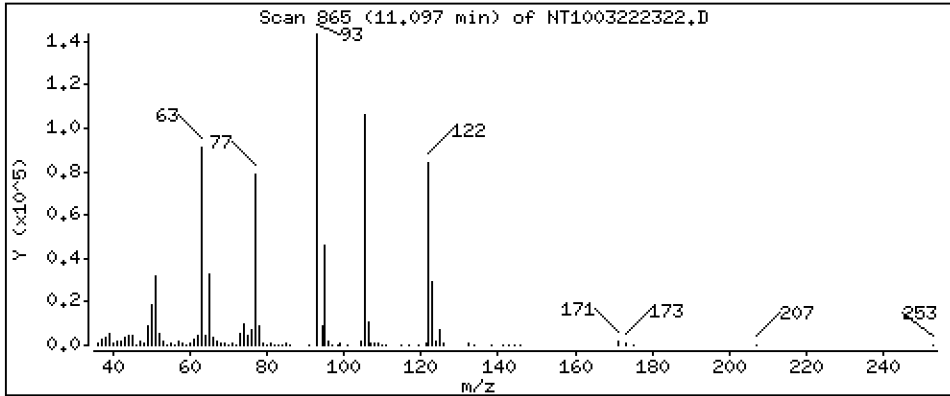
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,046 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

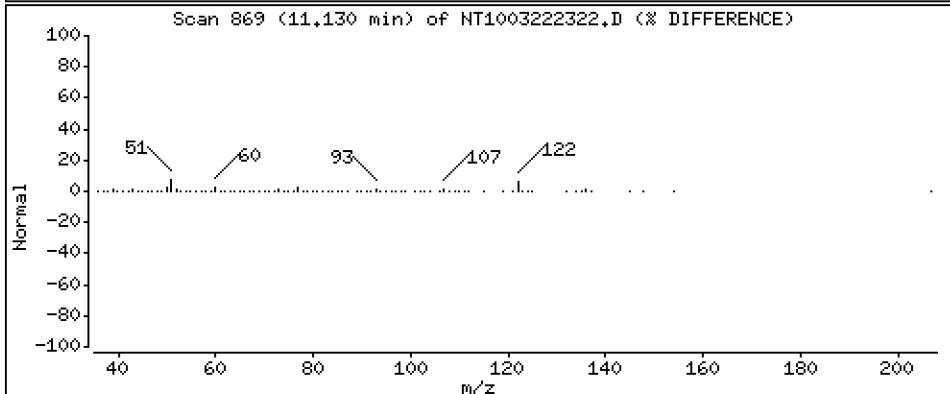
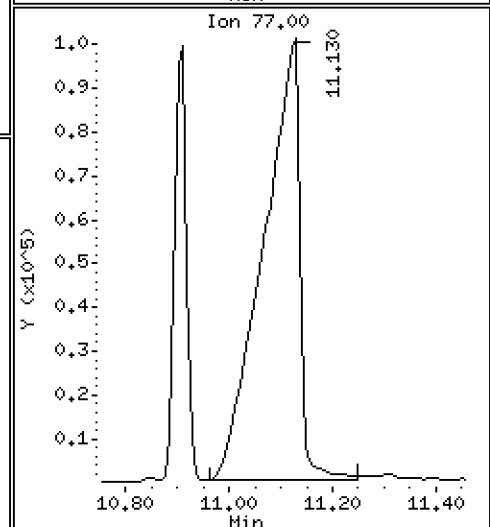
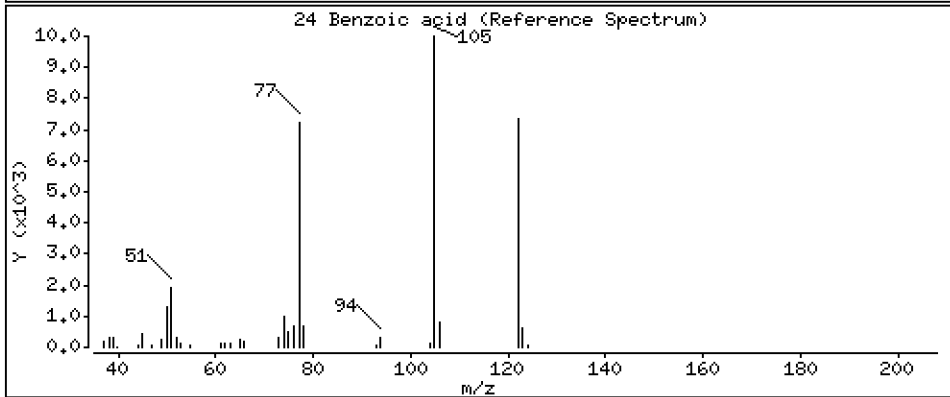
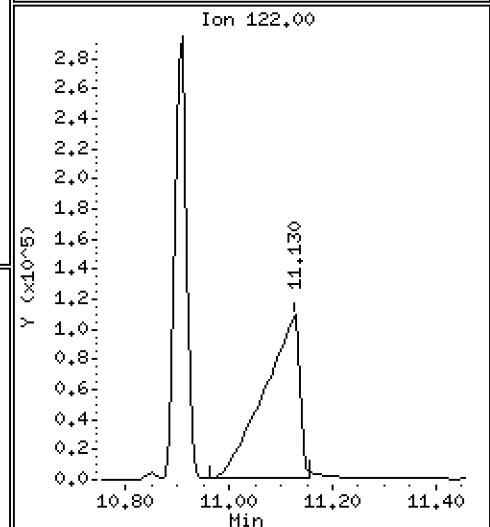
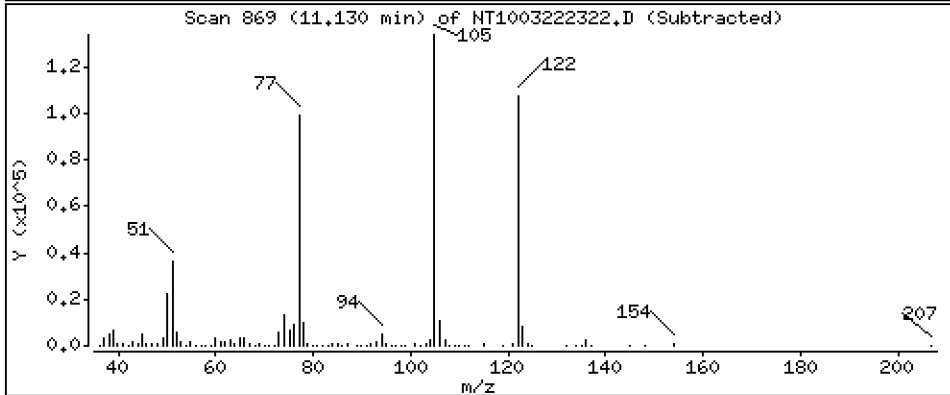
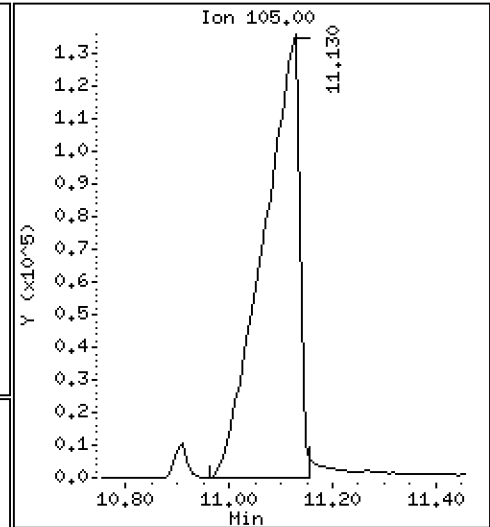
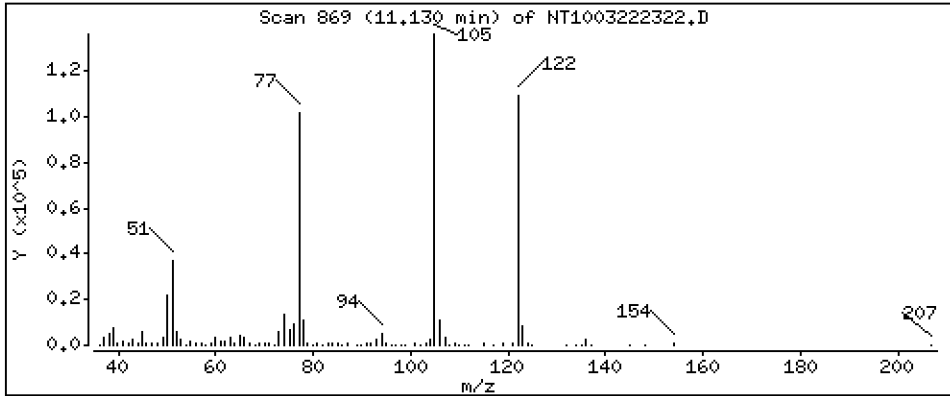
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 24,01 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

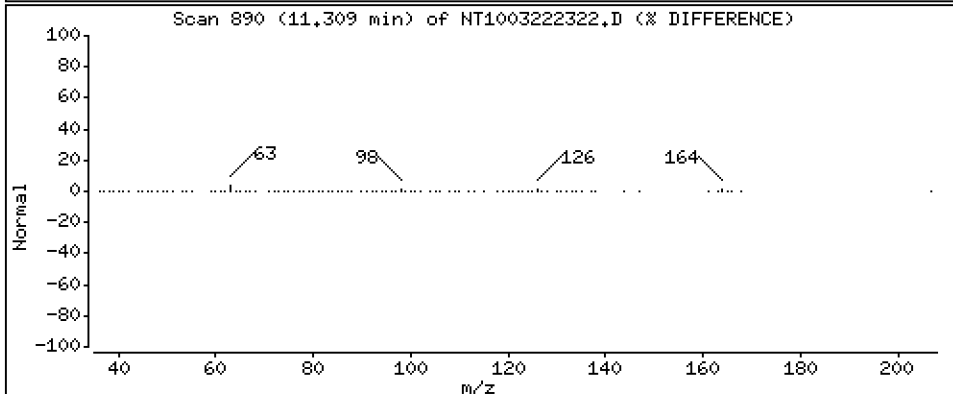
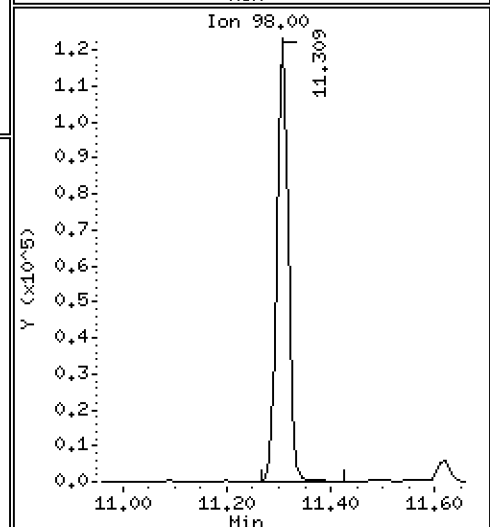
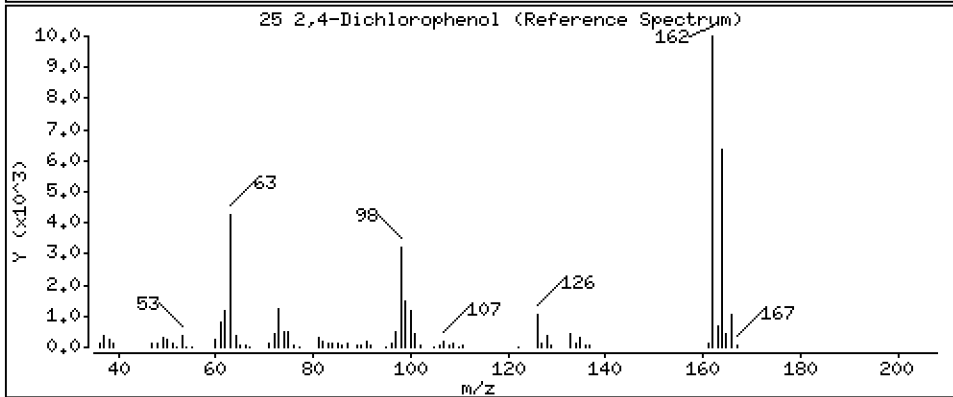
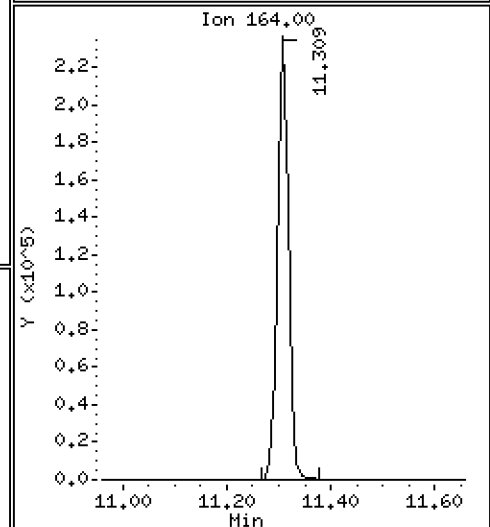
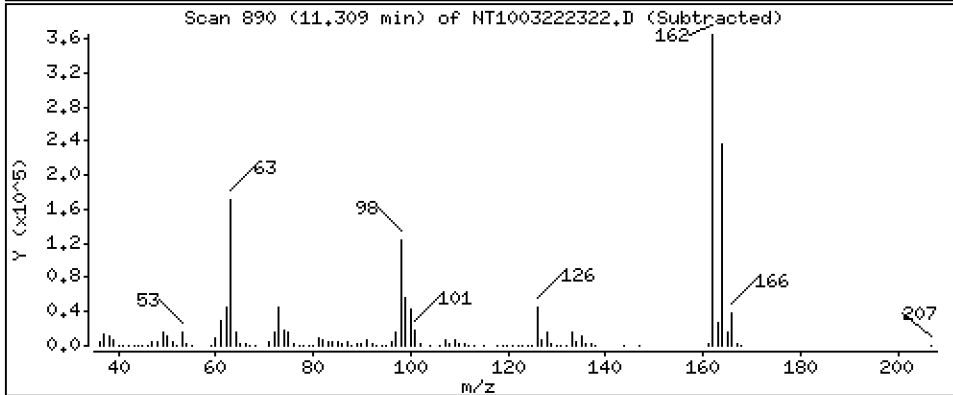
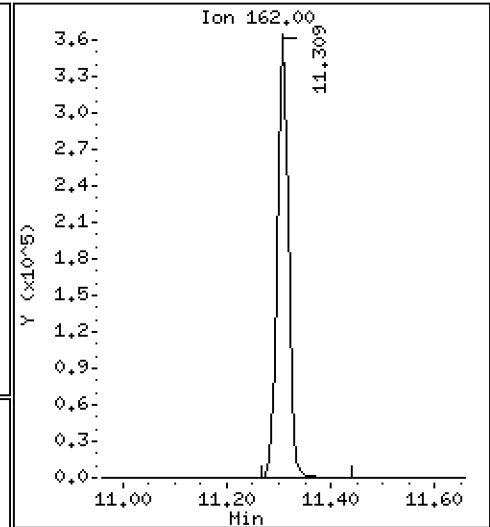
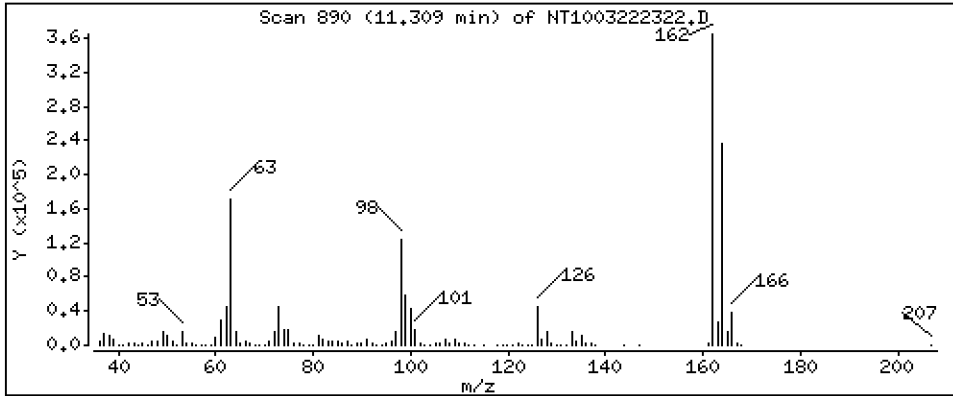
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 15,49 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

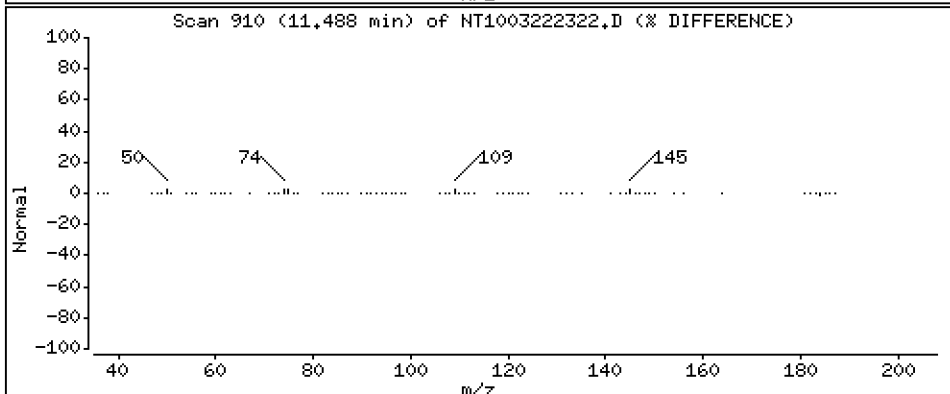
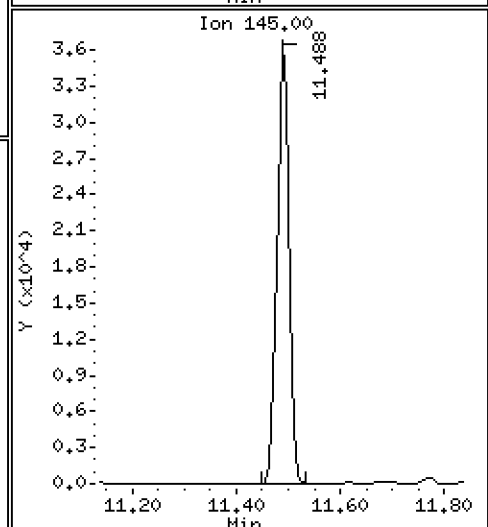
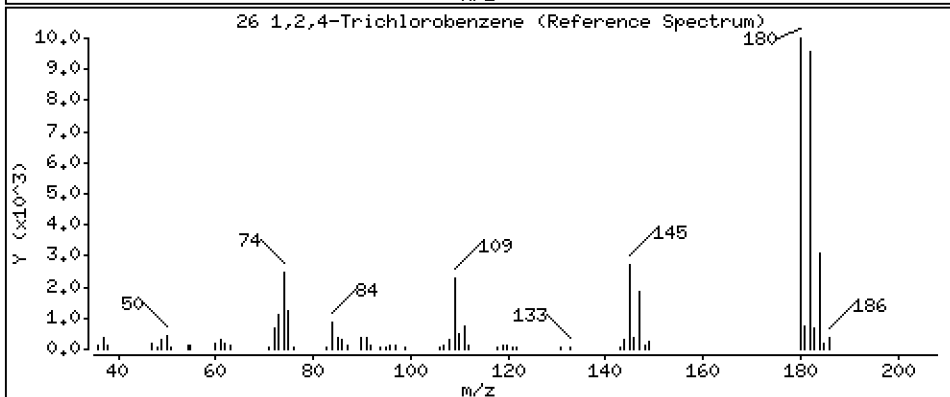
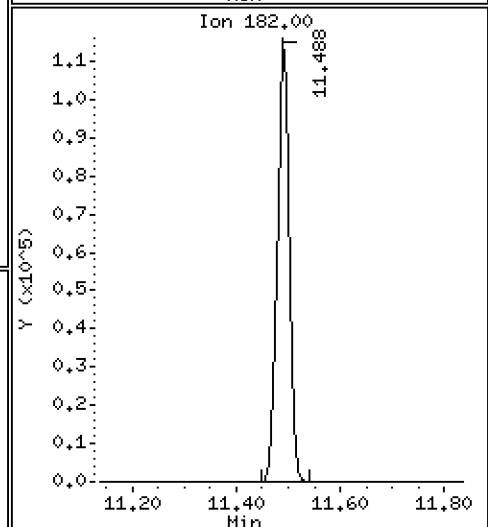
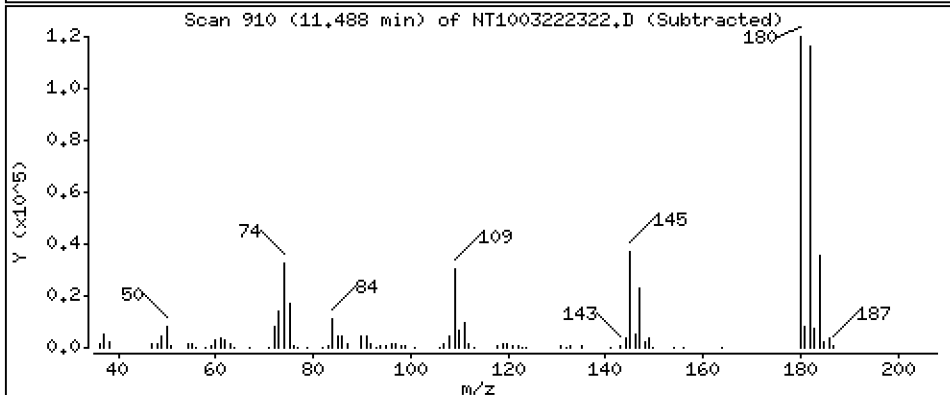
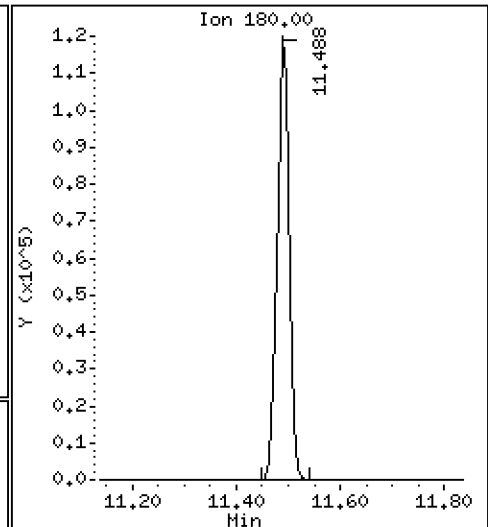
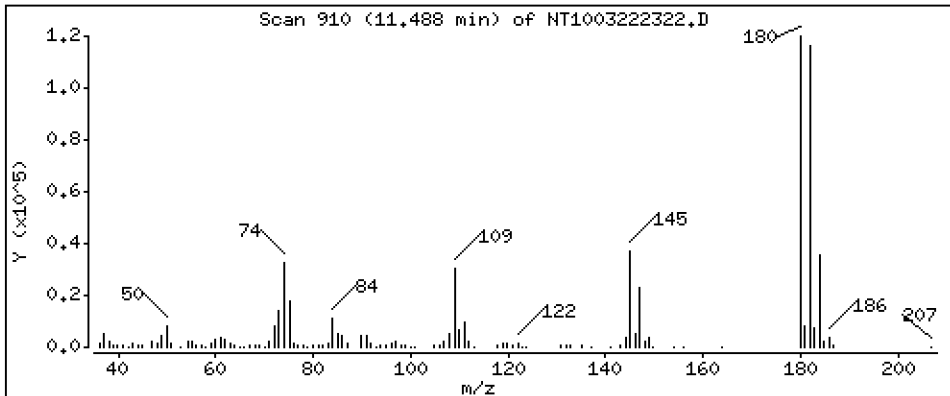
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,285 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

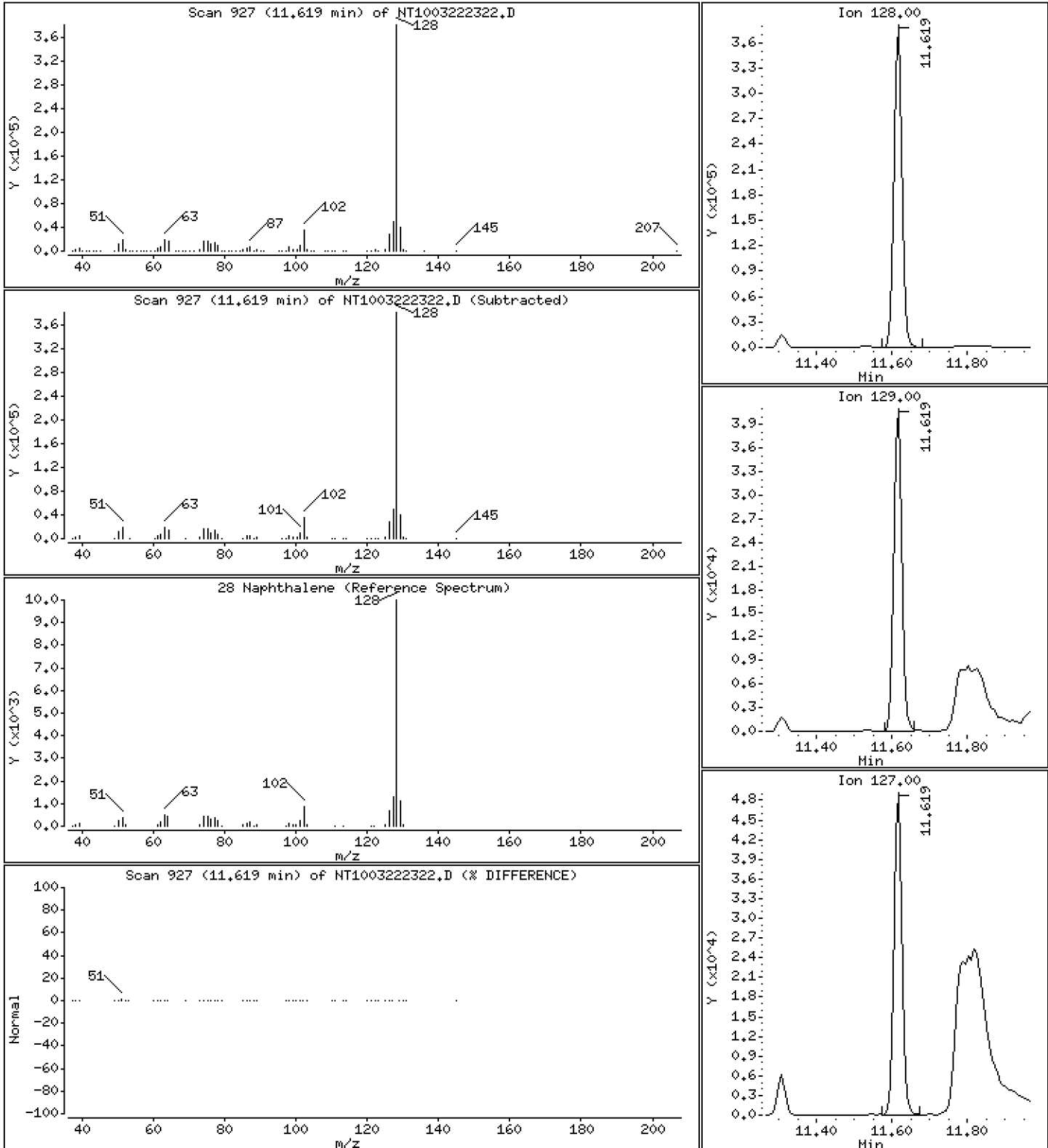
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,271 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

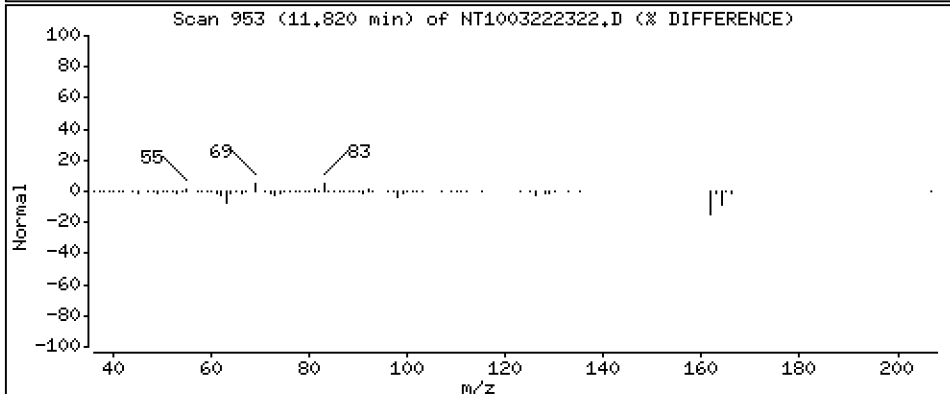
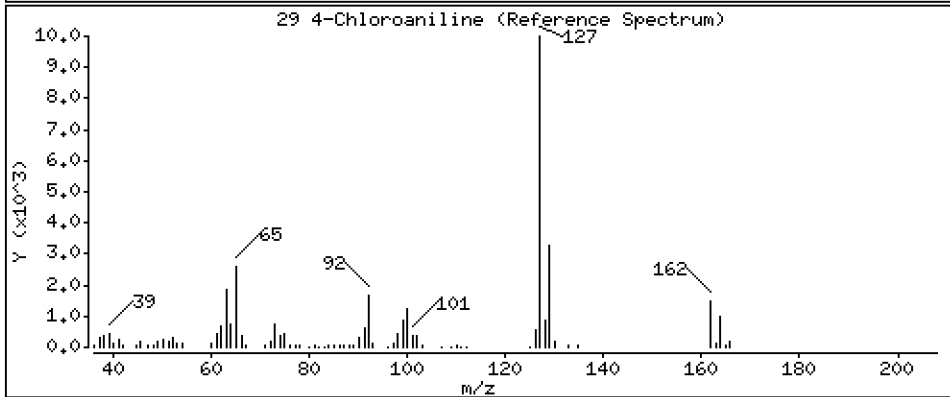
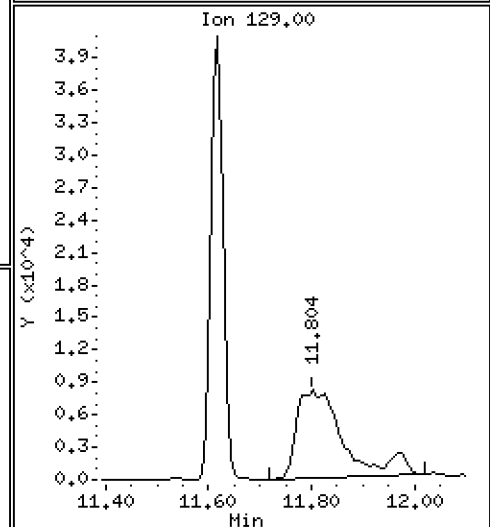
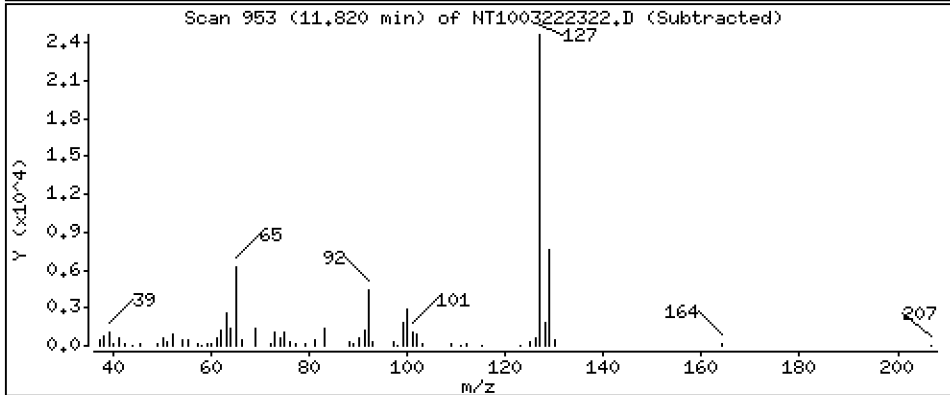
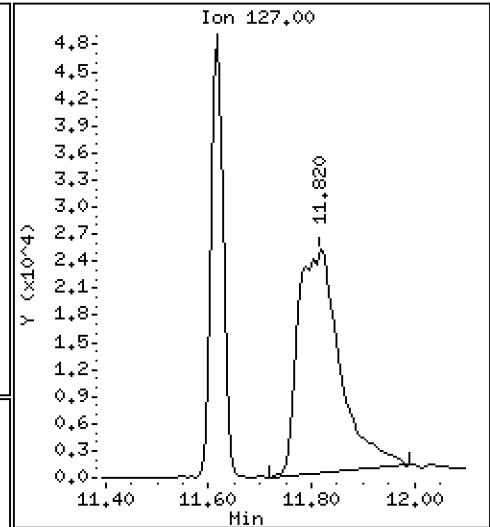
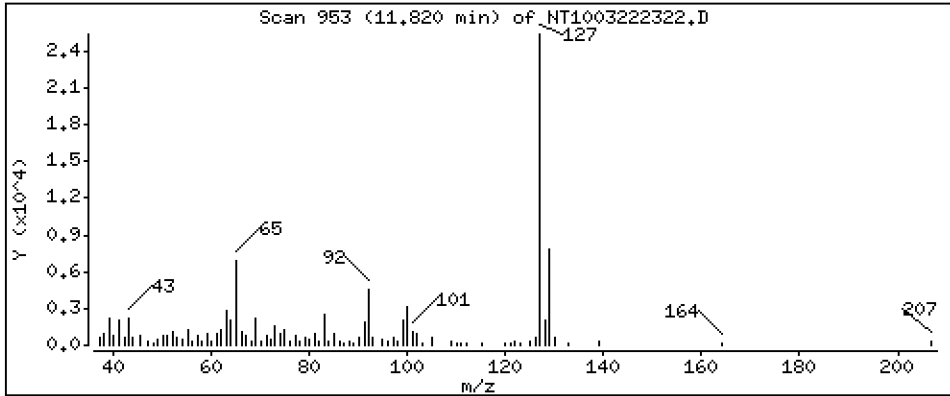
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 2,751 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

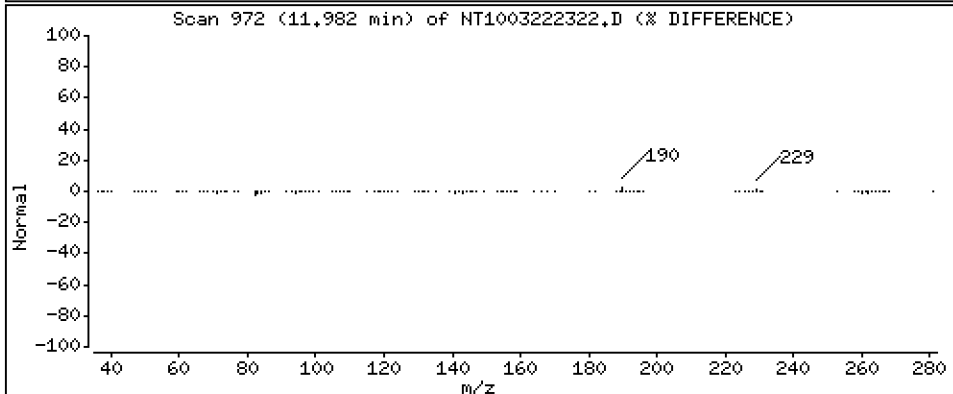
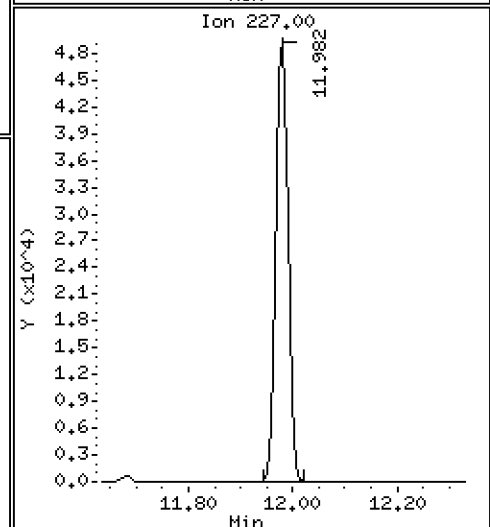
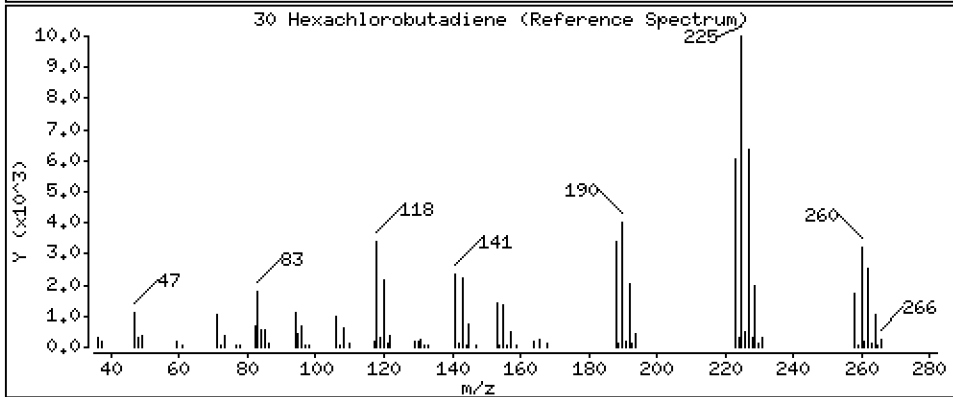
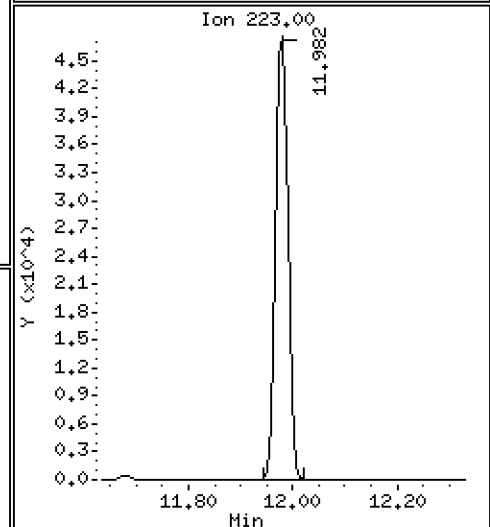
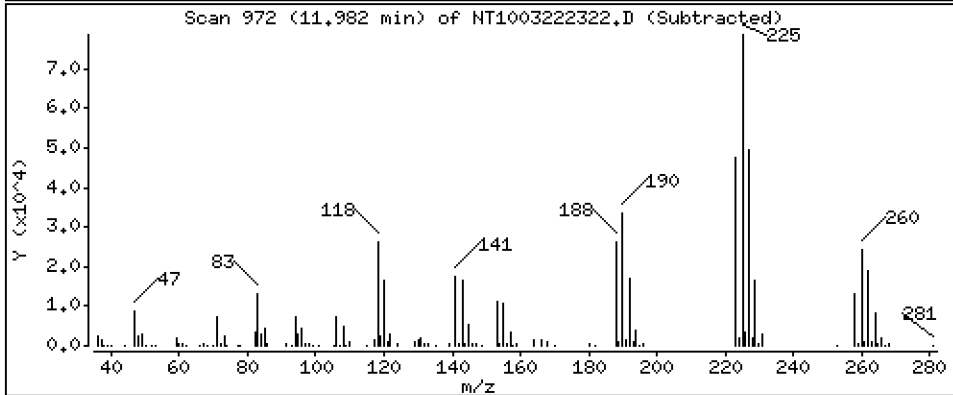
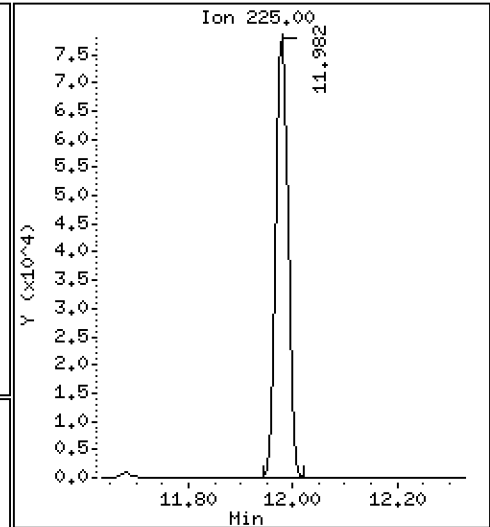
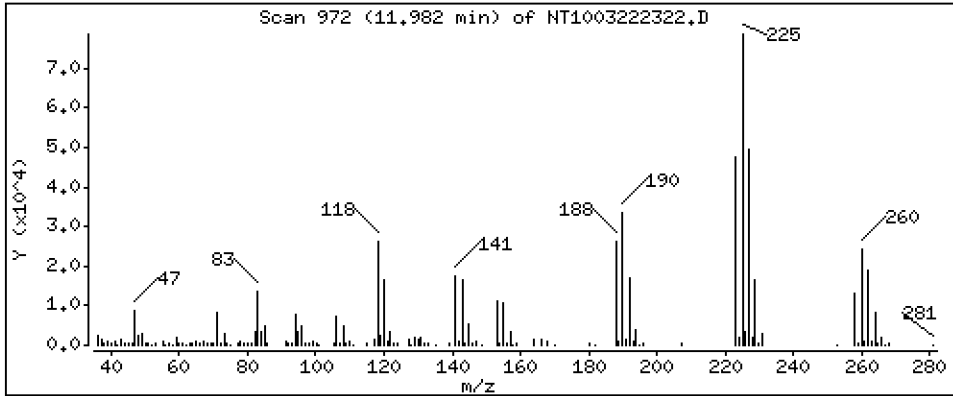
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,740 ug/mL





Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

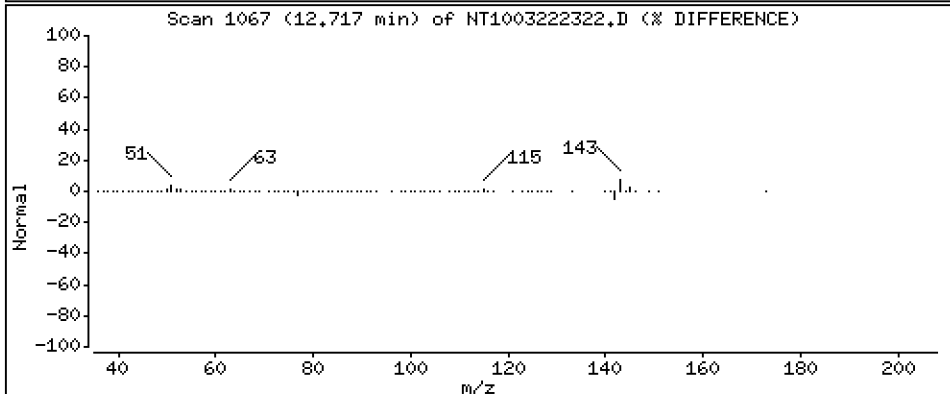
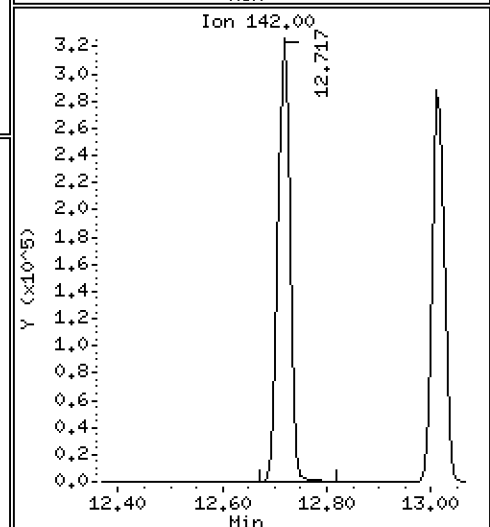
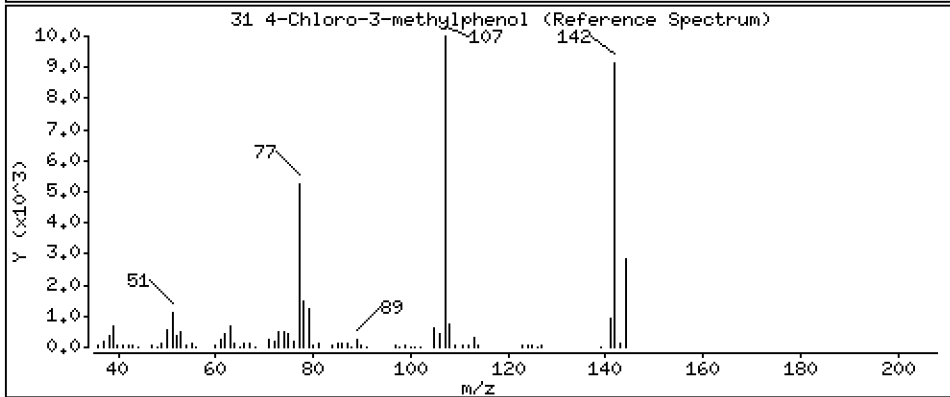
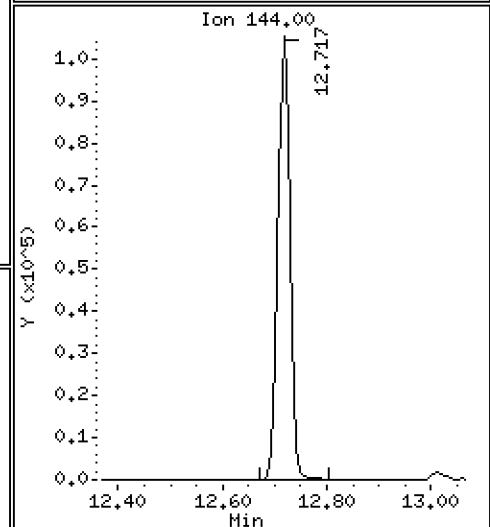
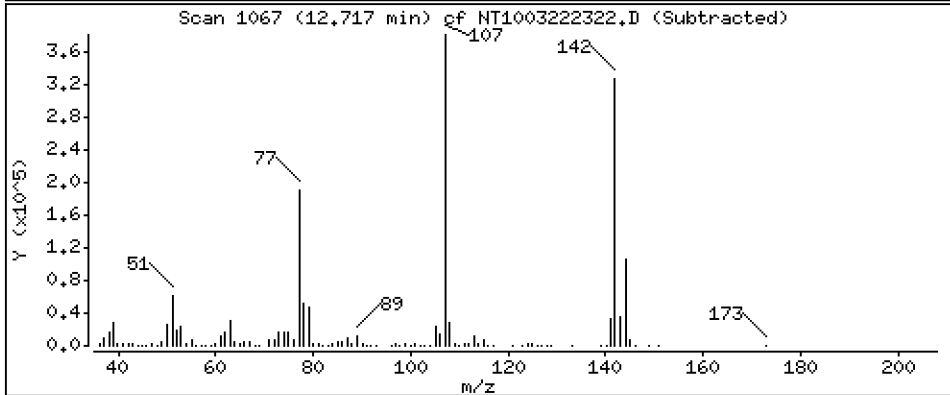
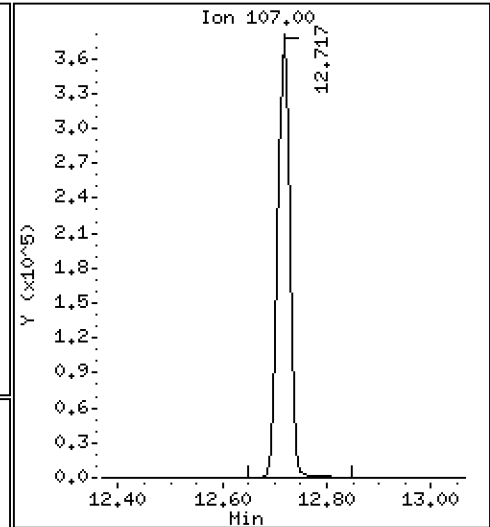
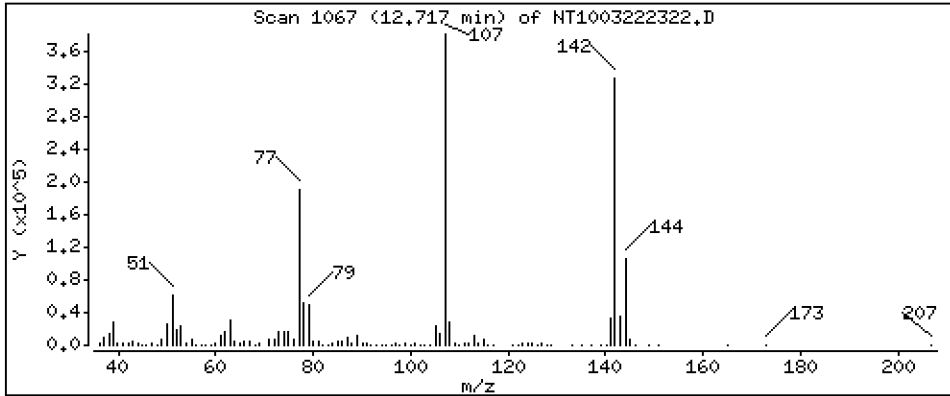
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 14,30 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

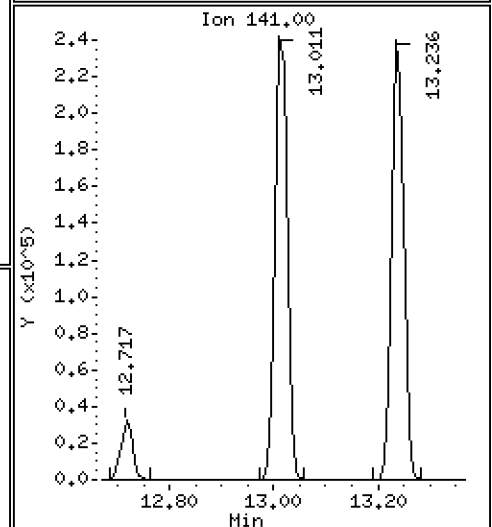
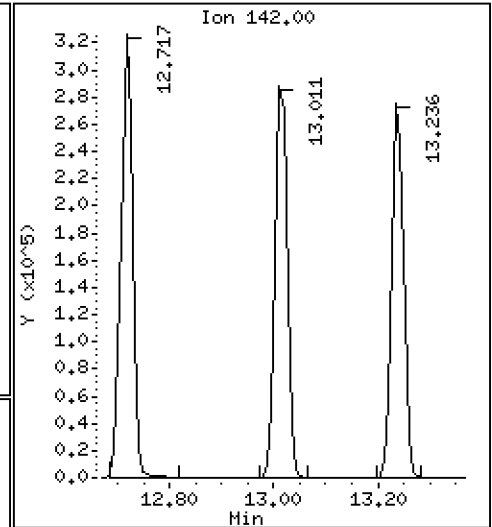
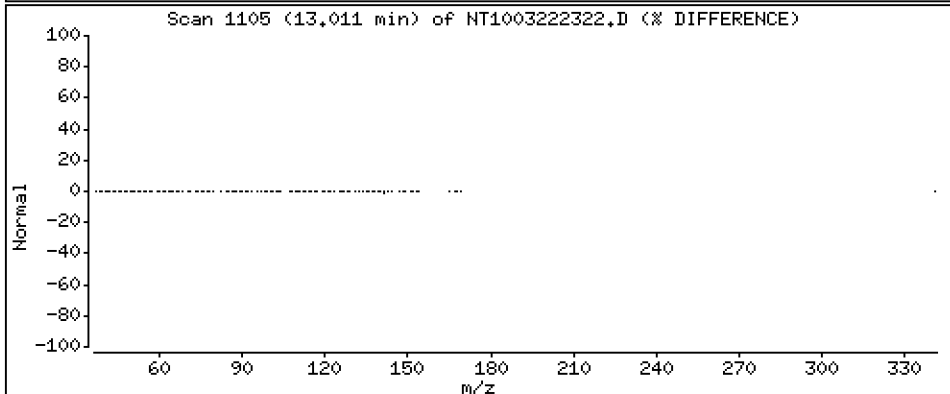
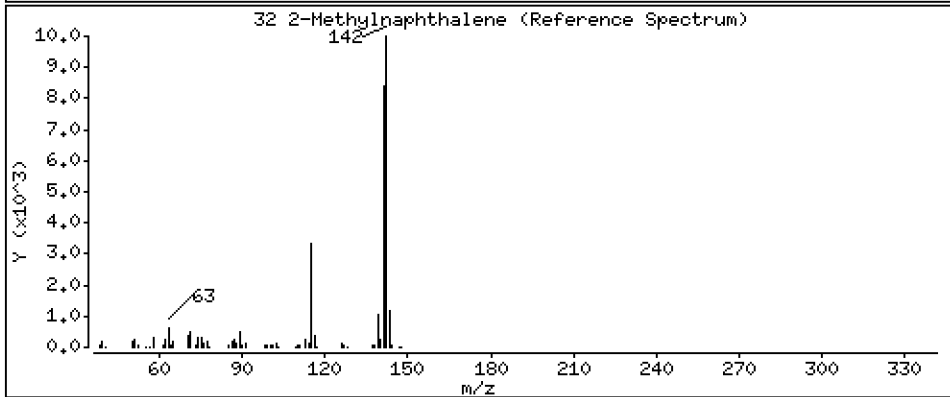
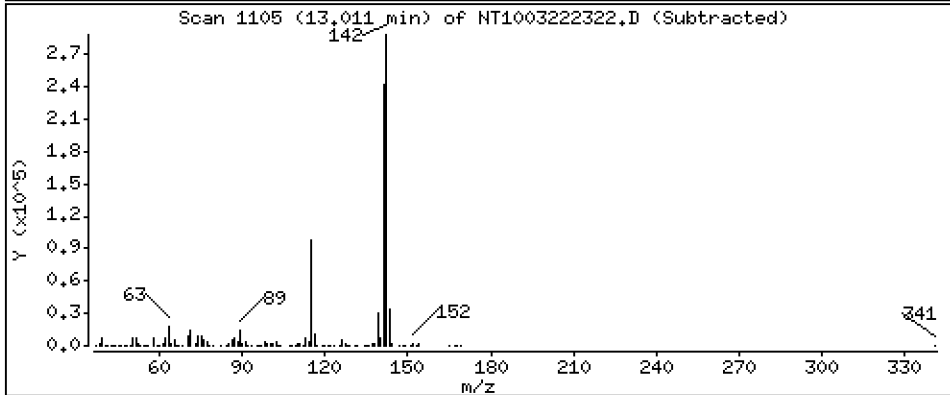
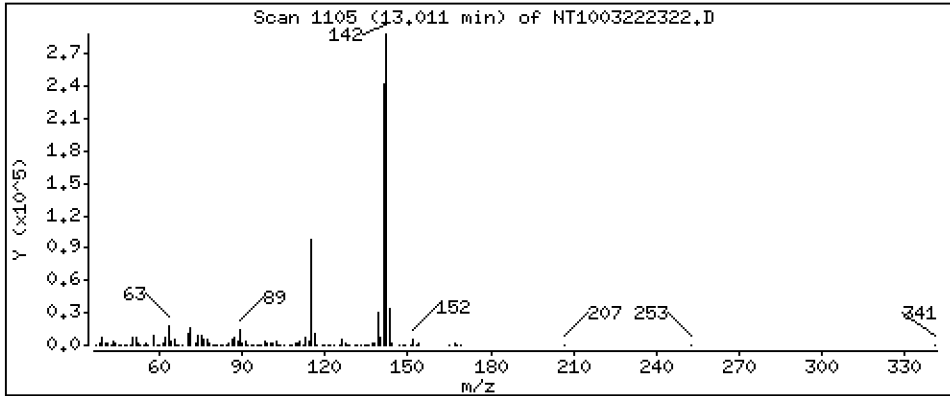
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,529 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

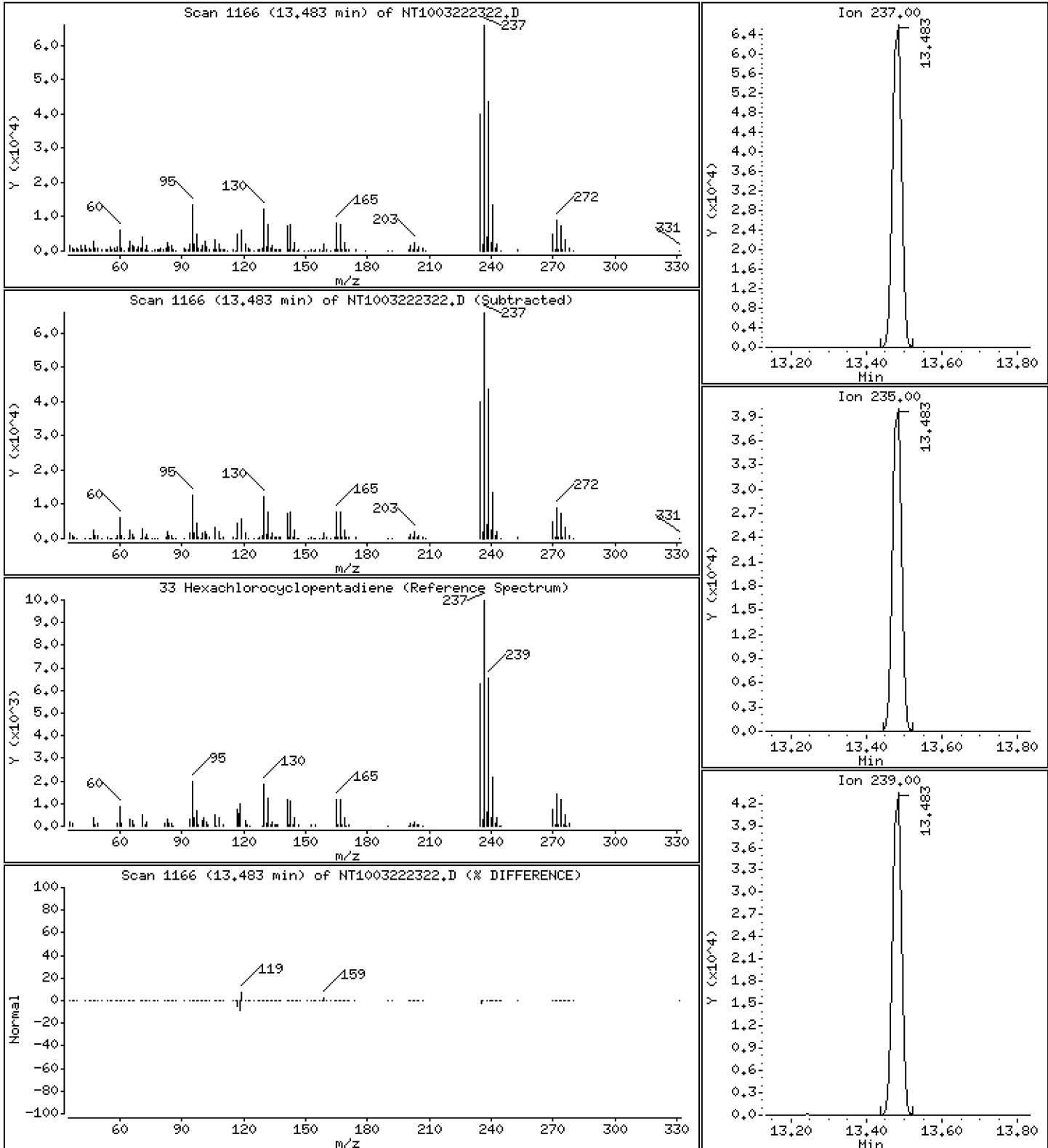
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 3,803 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

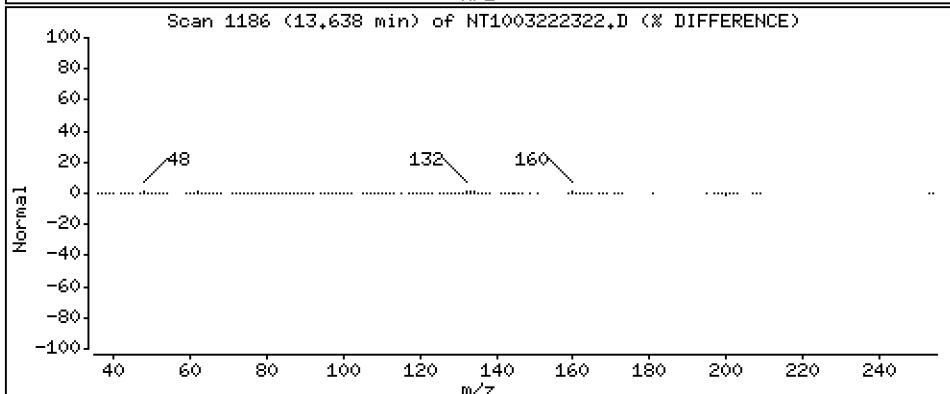
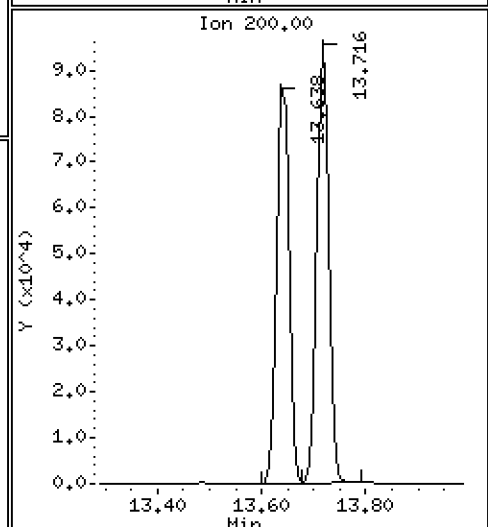
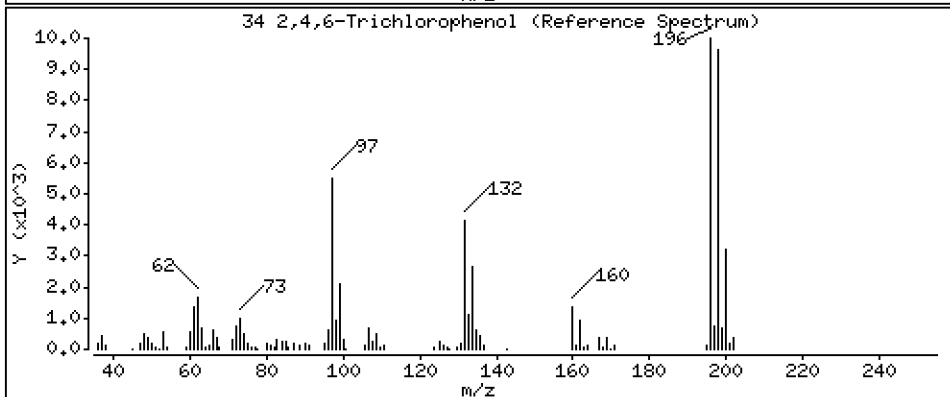
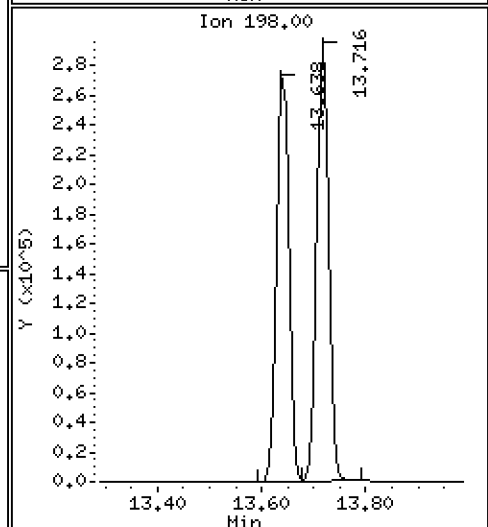
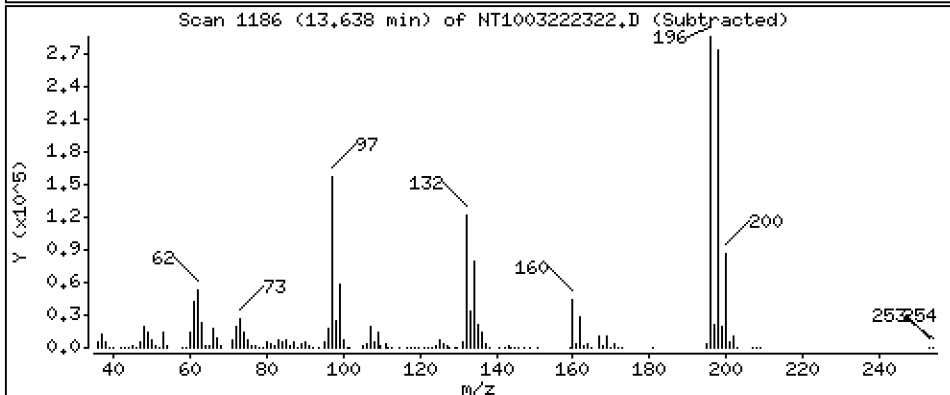
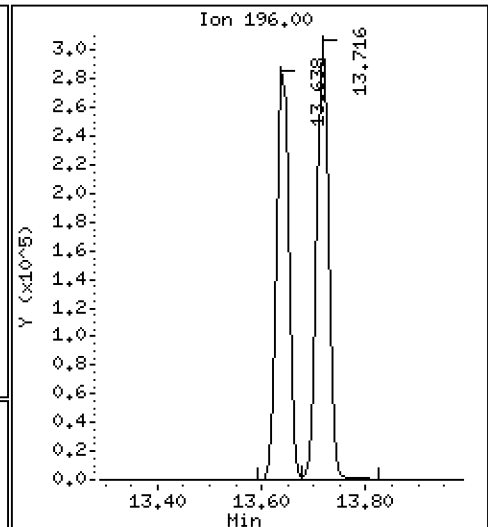
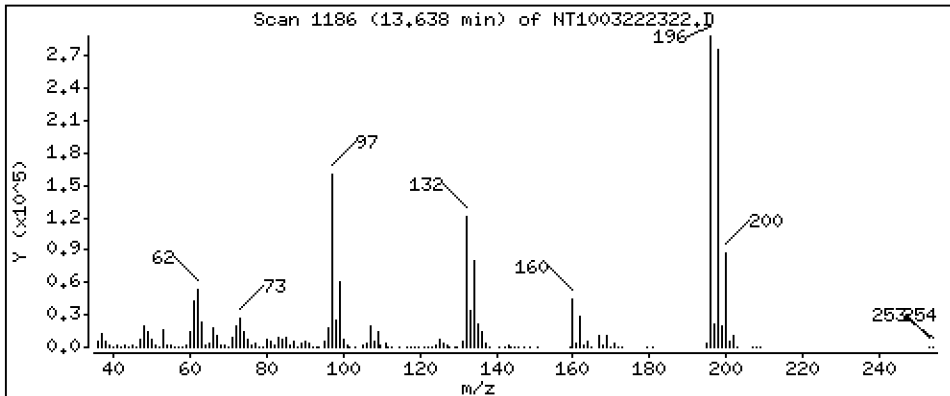
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 15,39 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

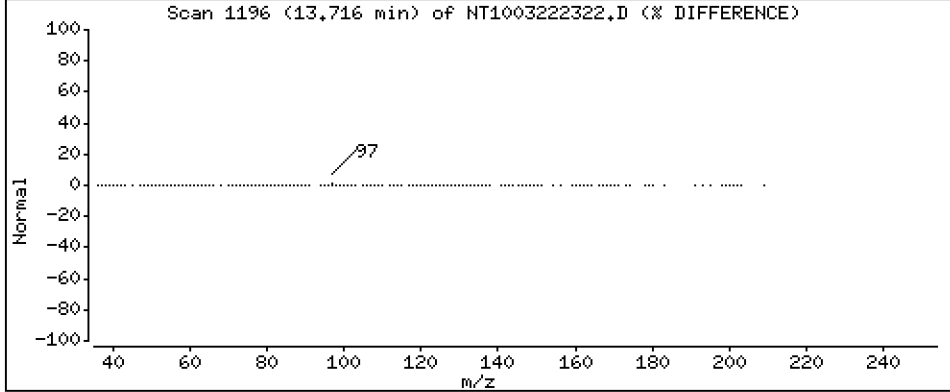
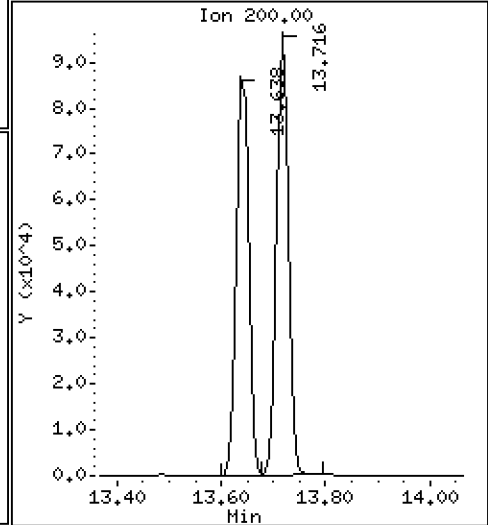
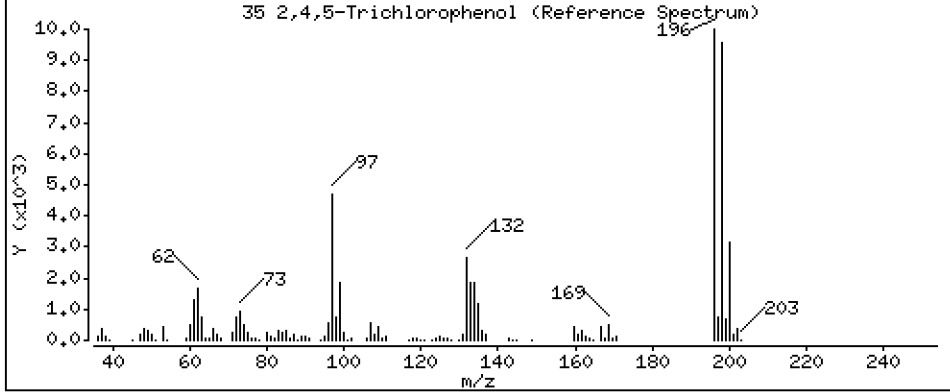
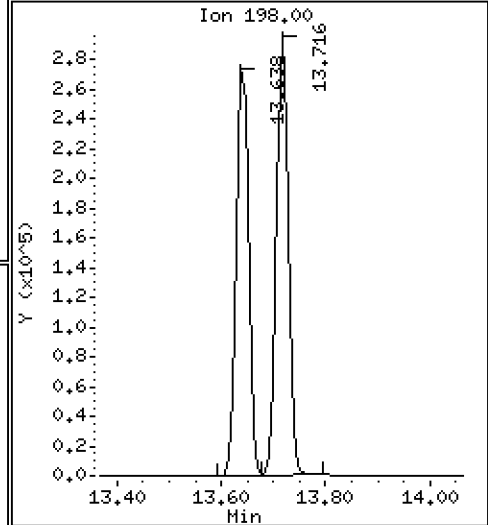
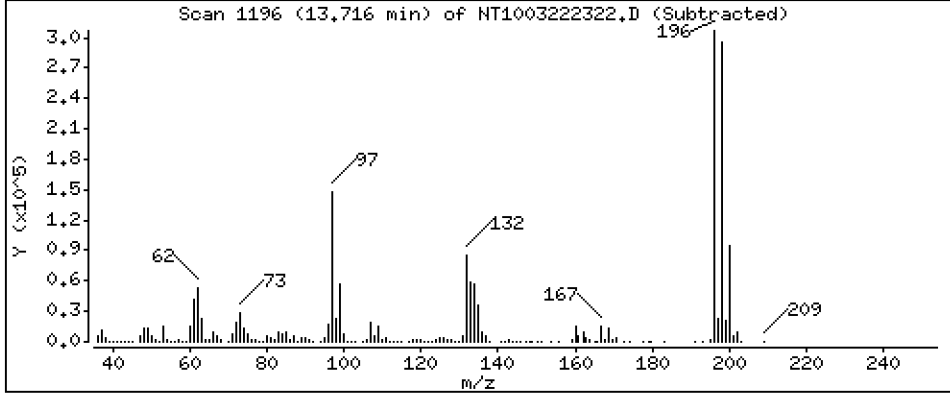
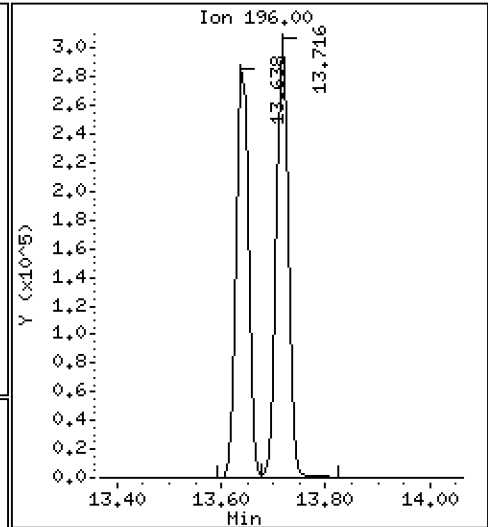
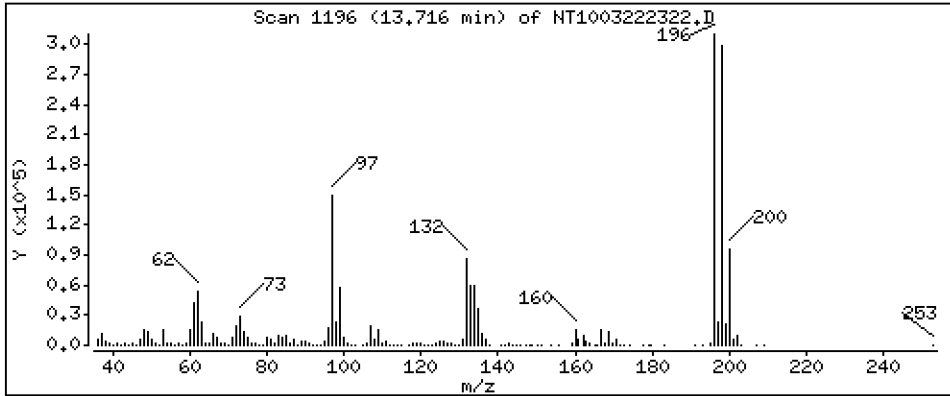
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 14,57 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

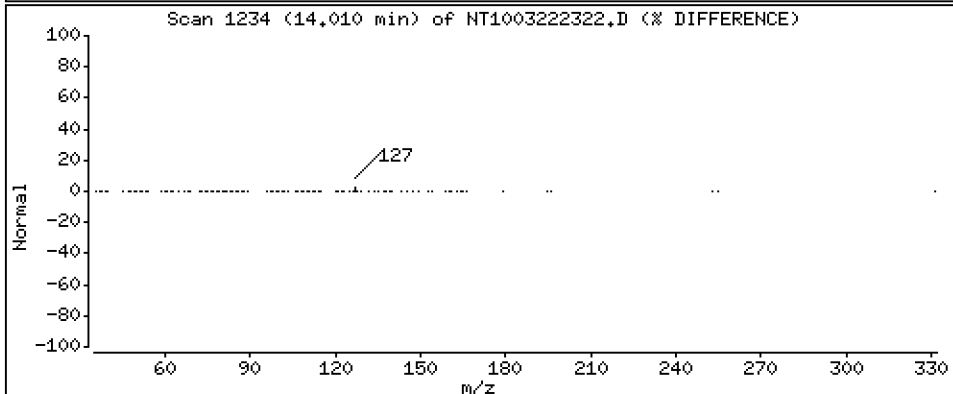
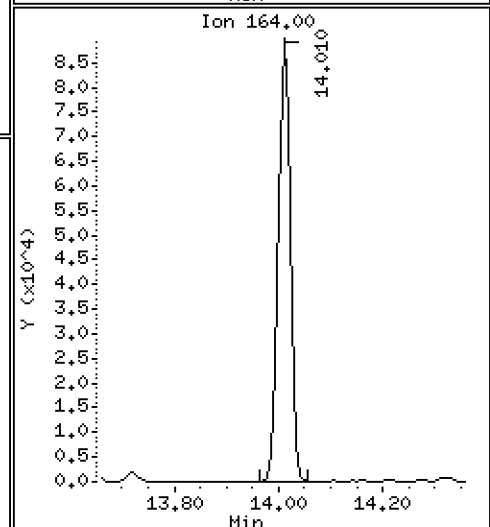
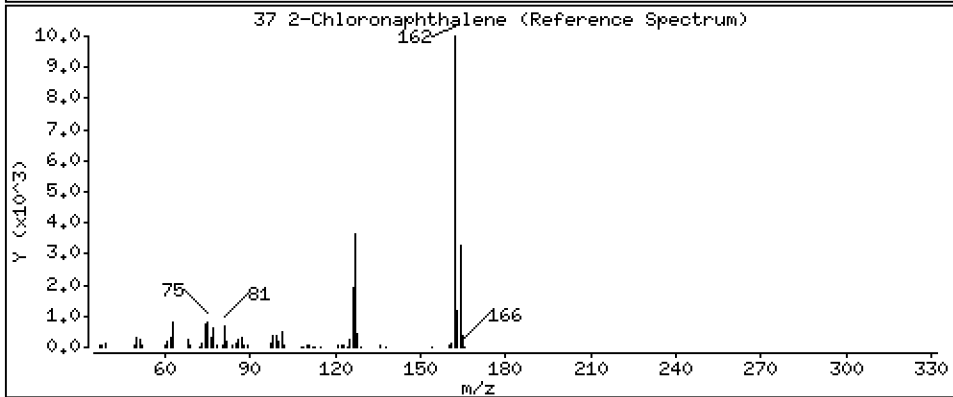
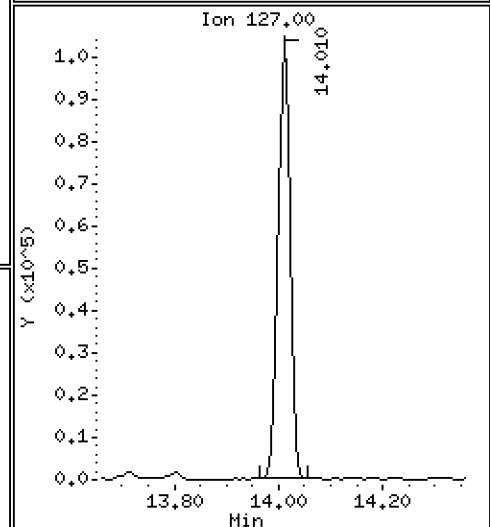
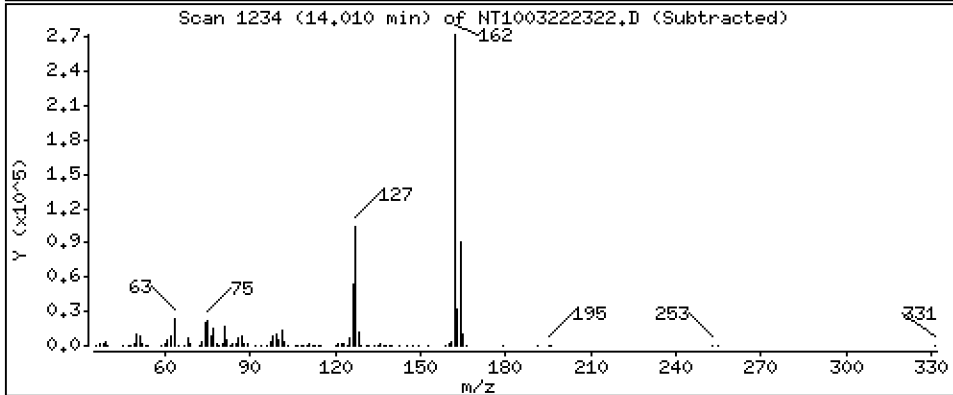
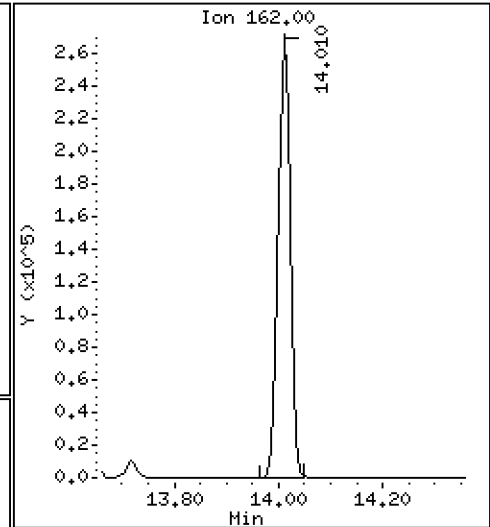
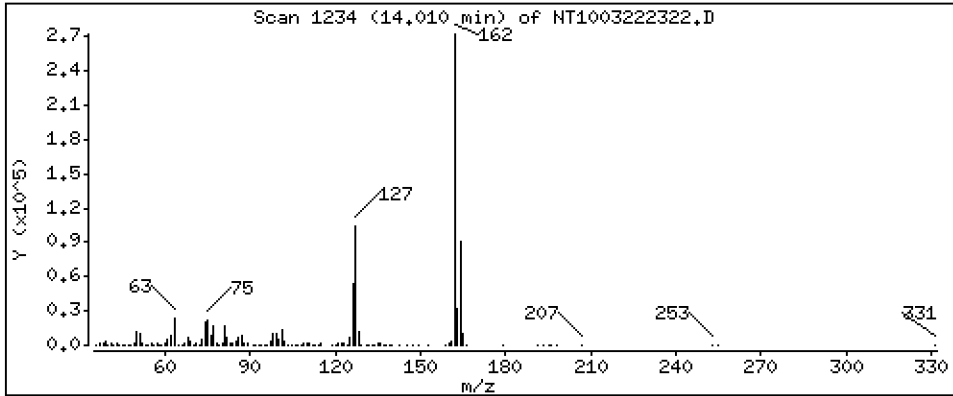
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,437 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

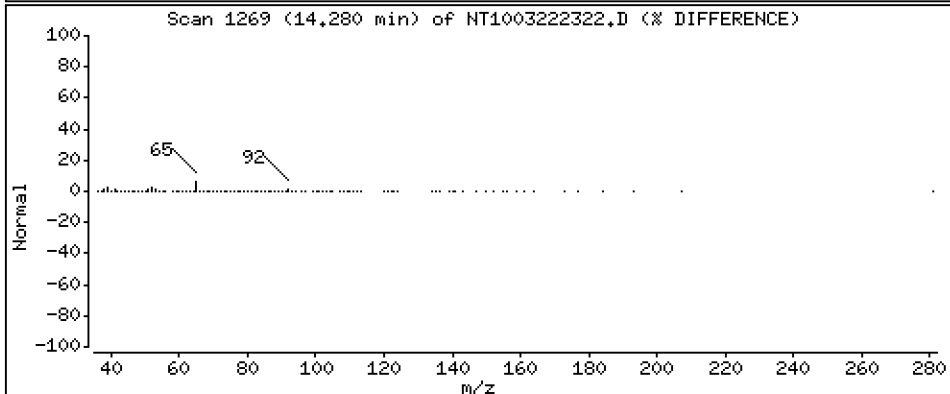
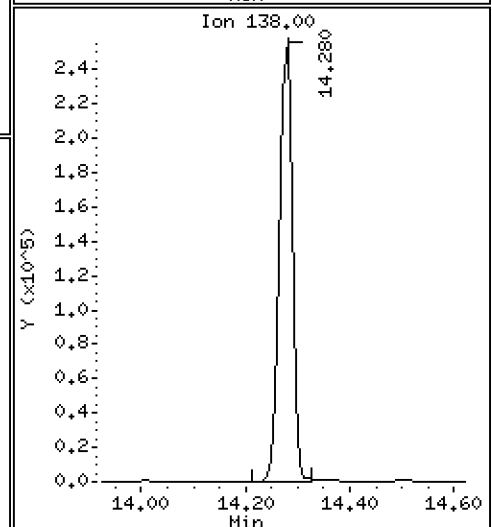
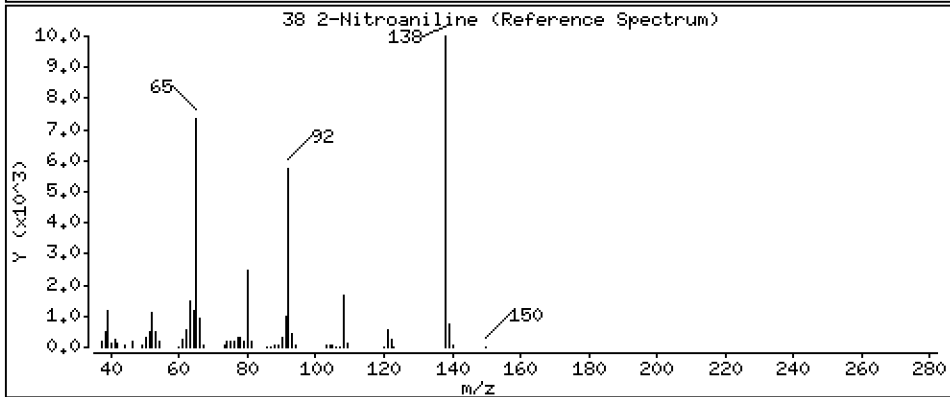
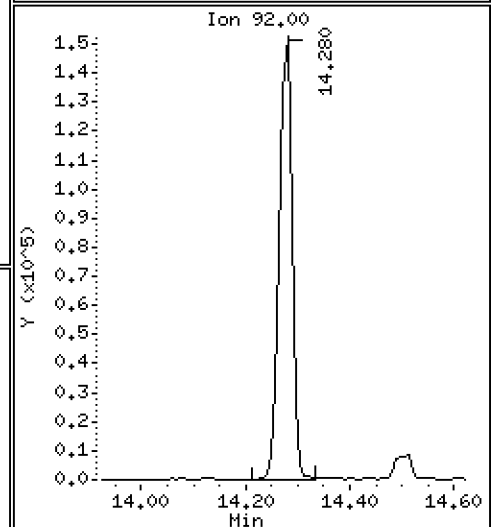
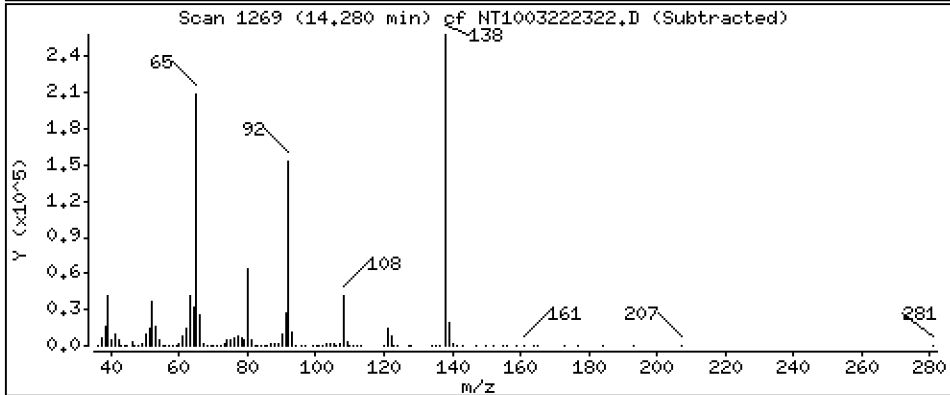
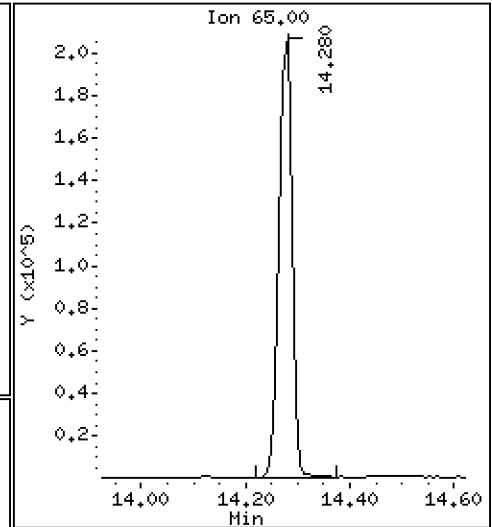
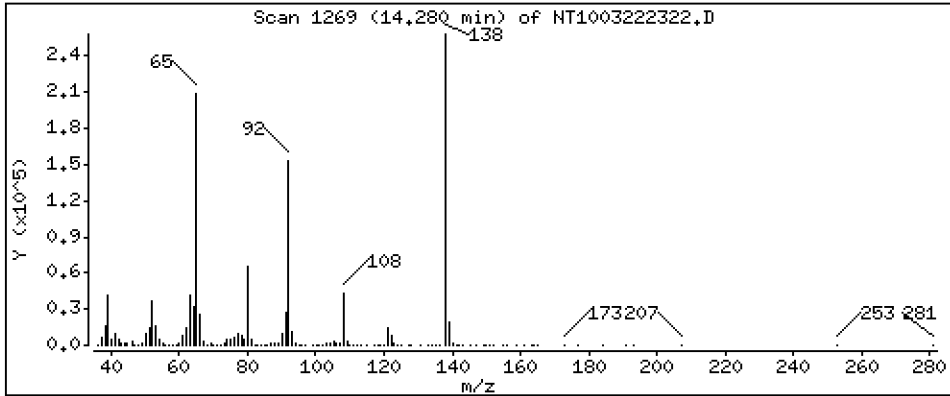
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 13,00 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

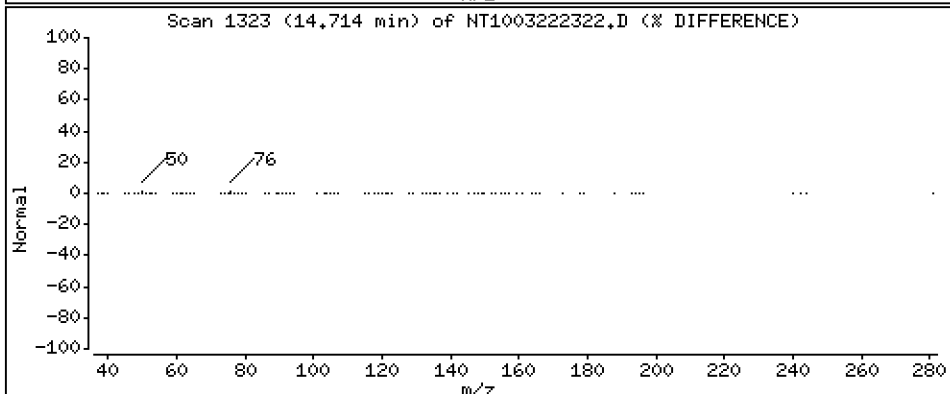
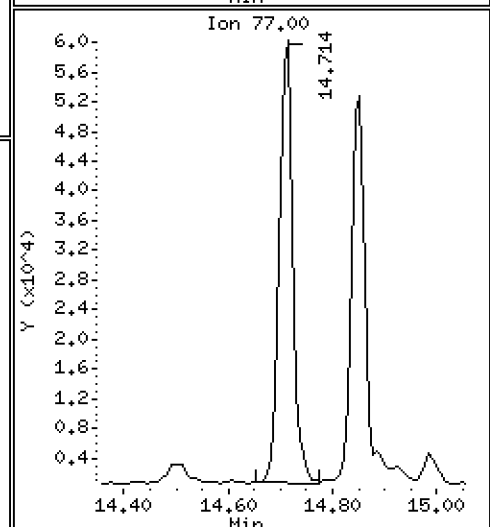
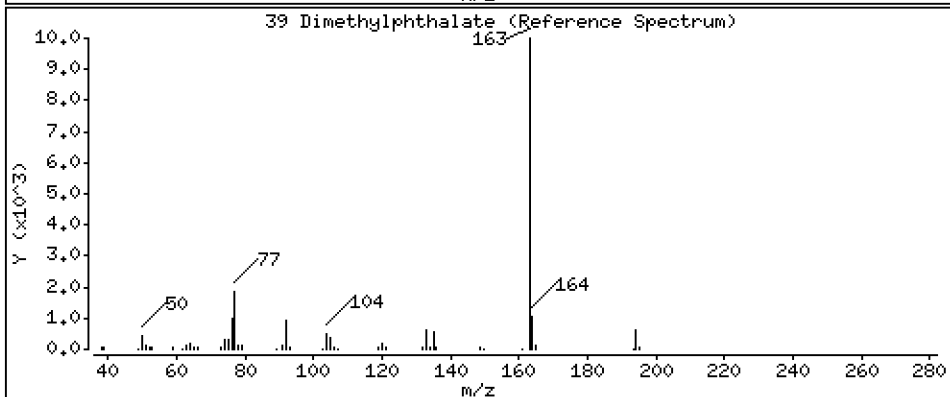
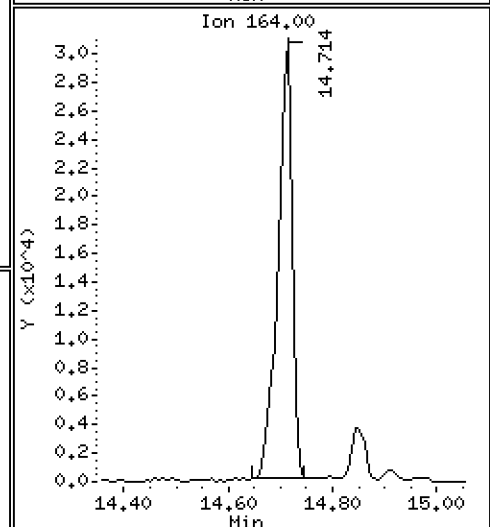
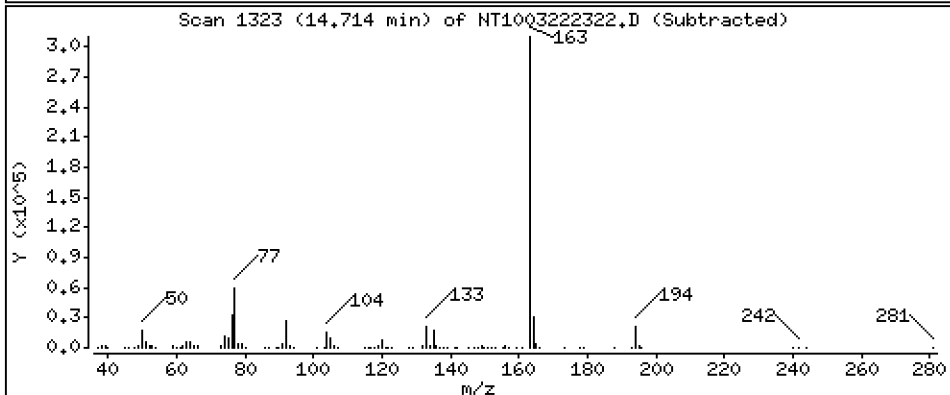
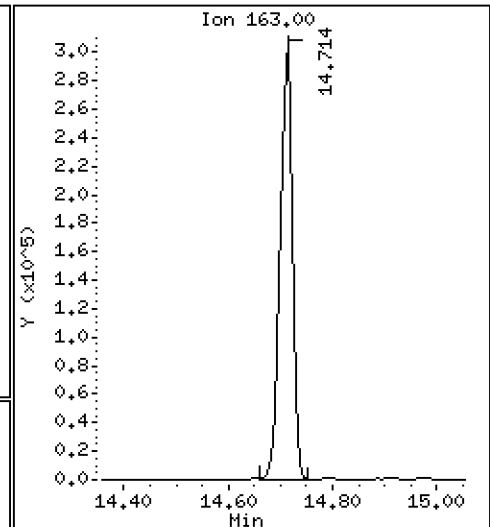
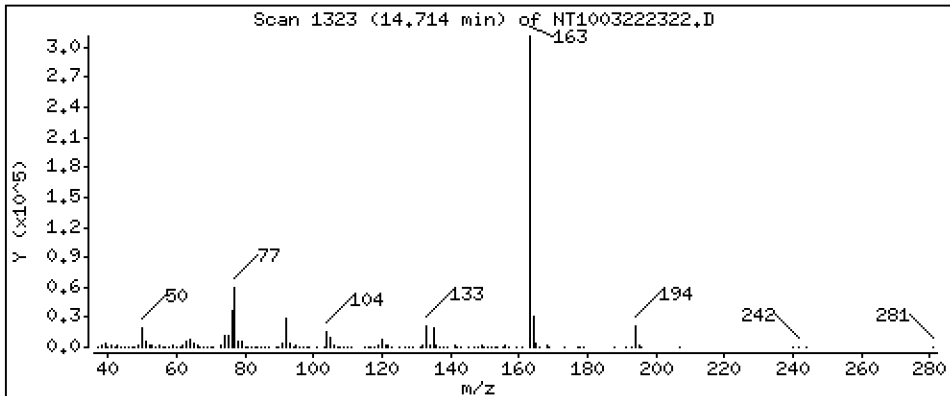
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,062 ug/mL





Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

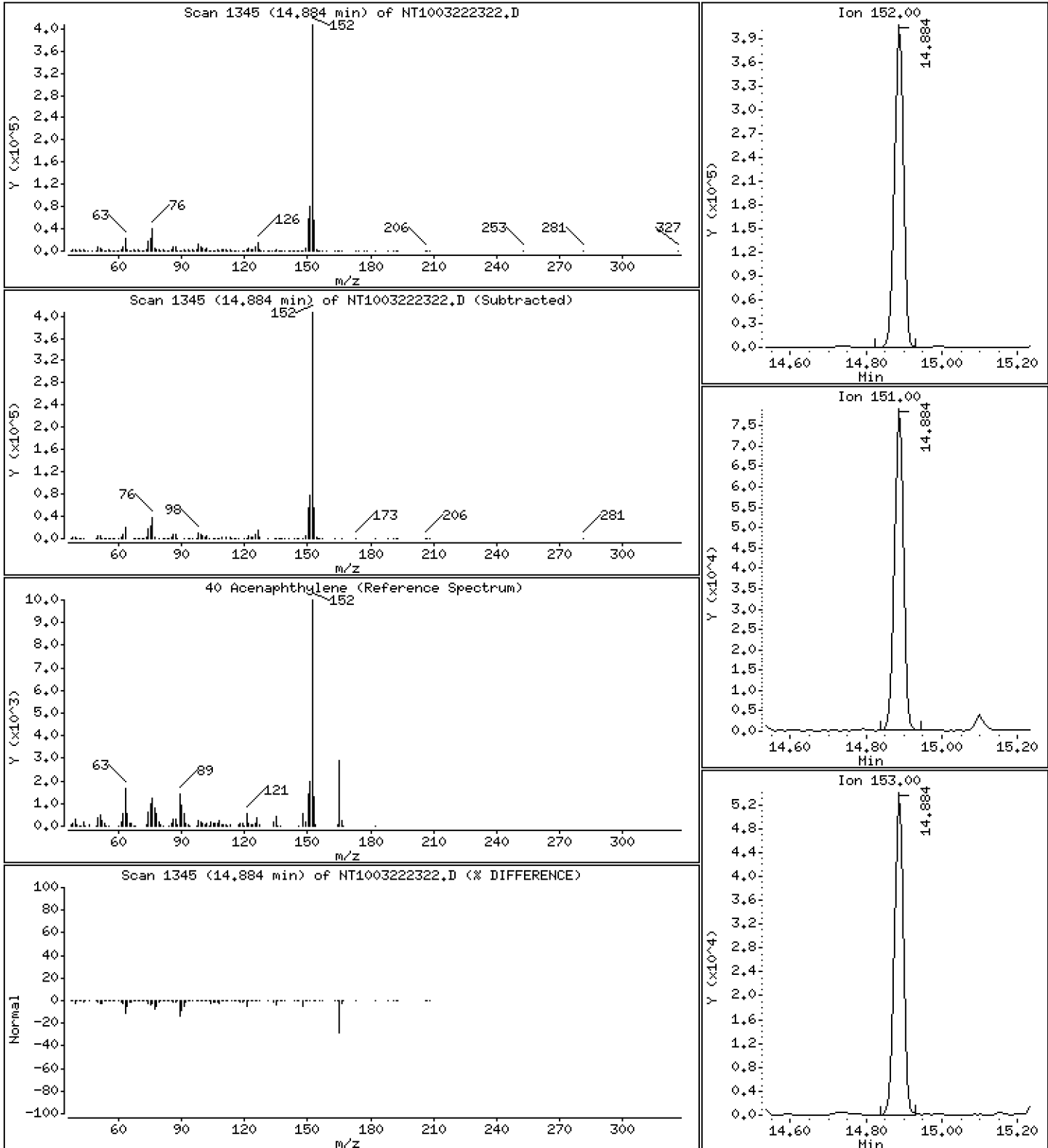
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,357 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

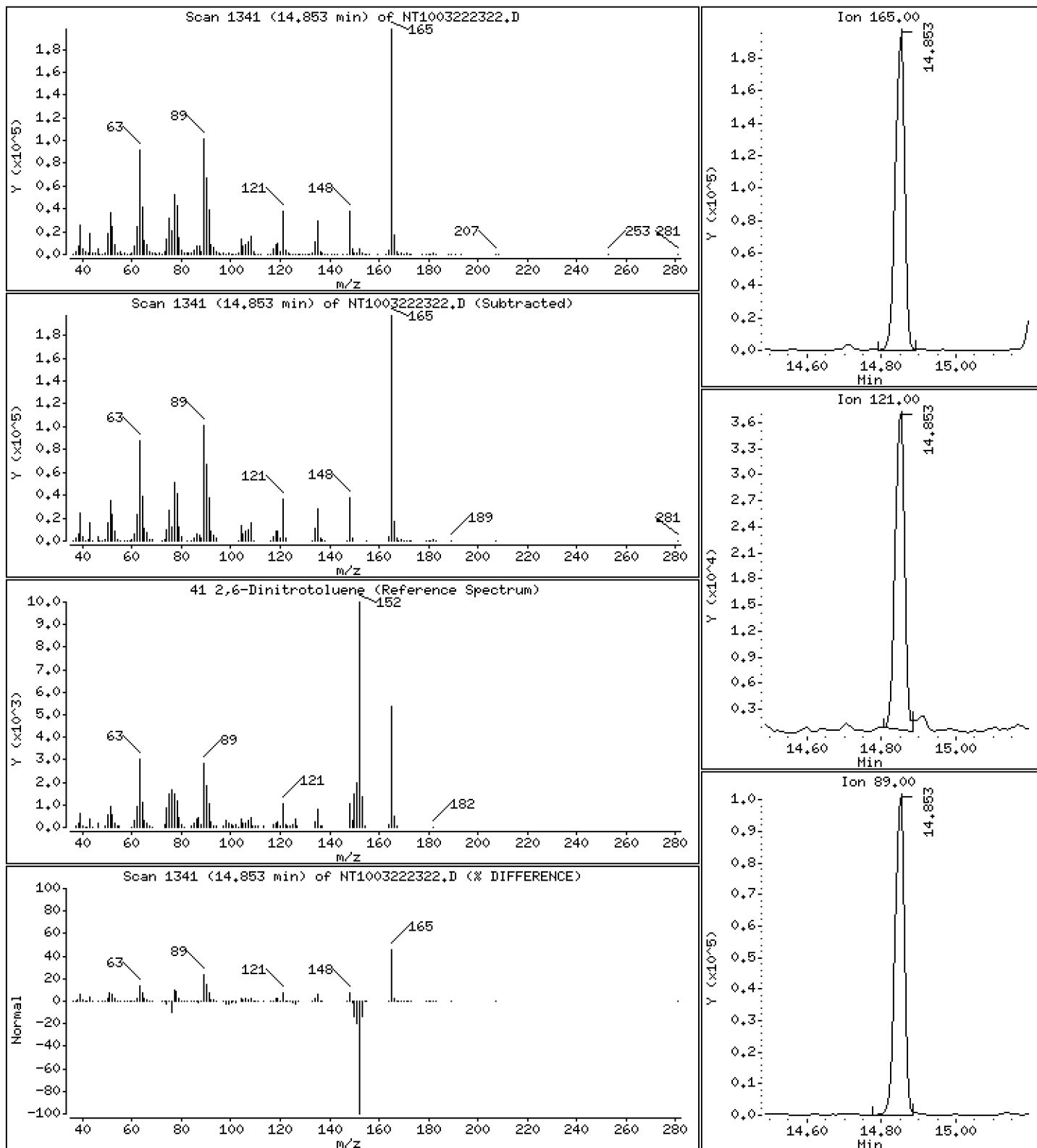
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 15,53 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

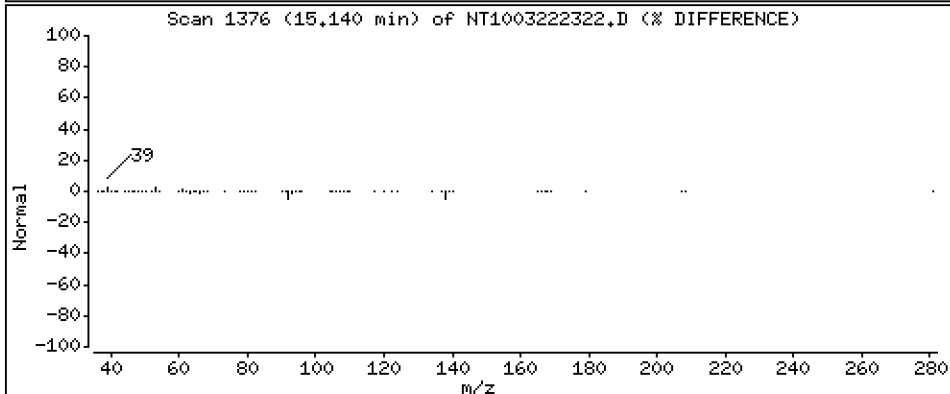
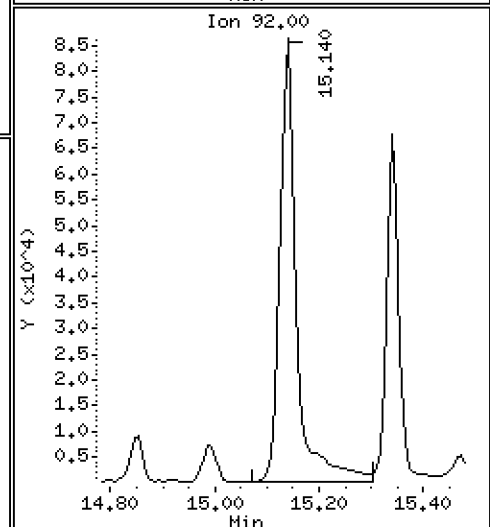
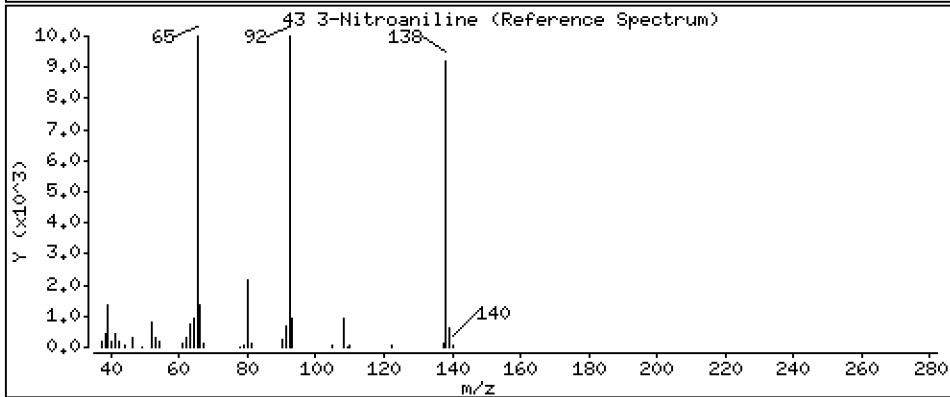
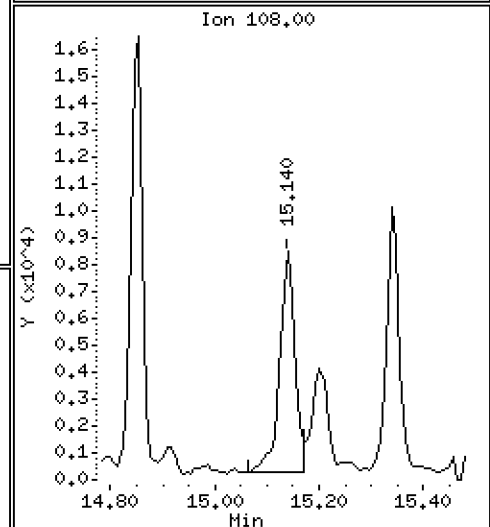
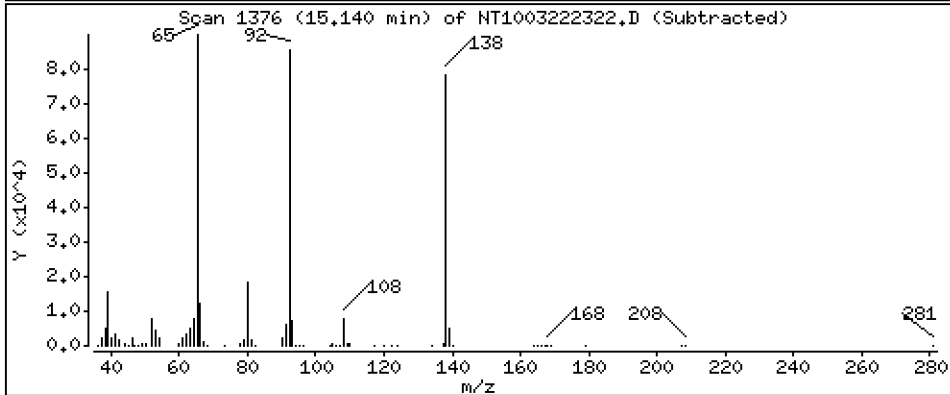
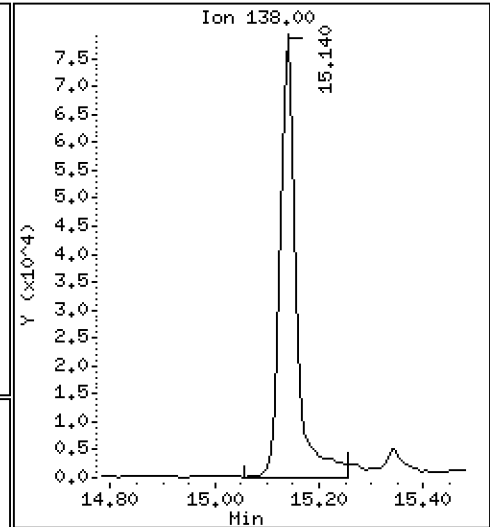
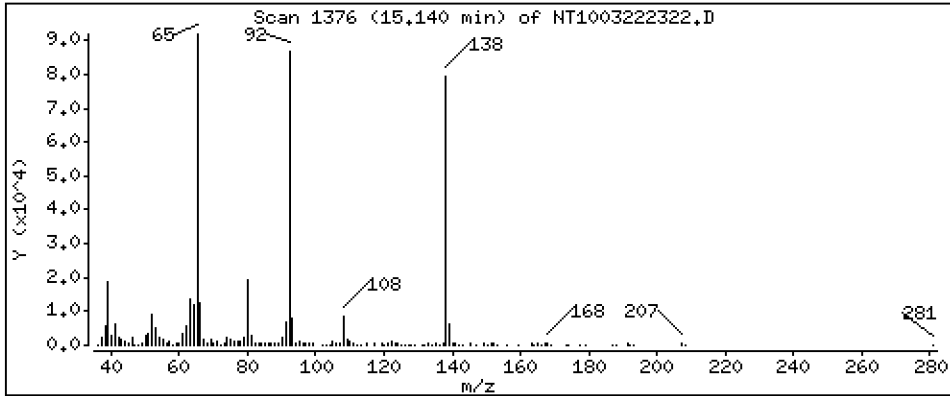
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 7,209 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

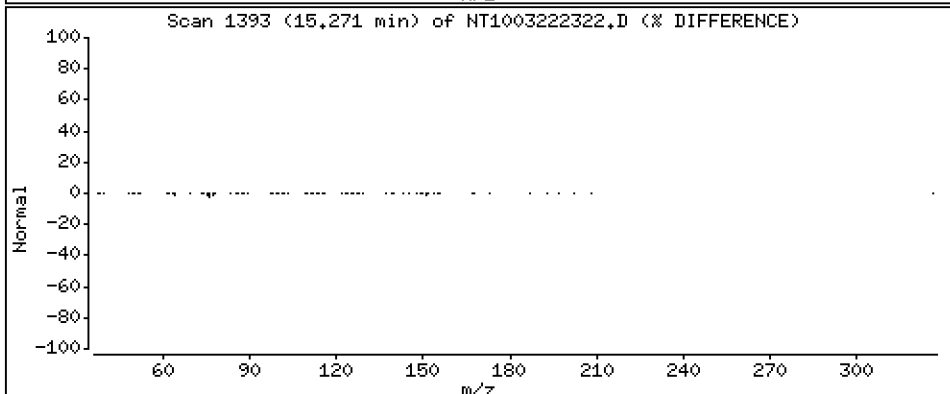
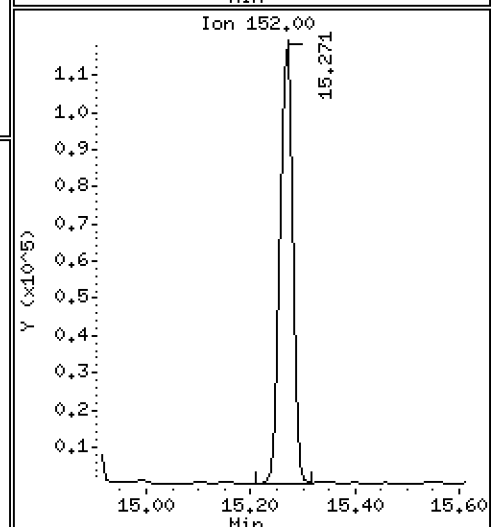
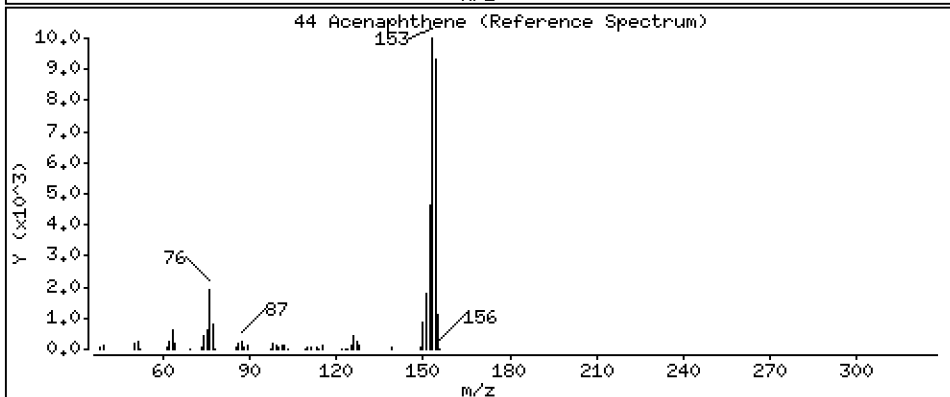
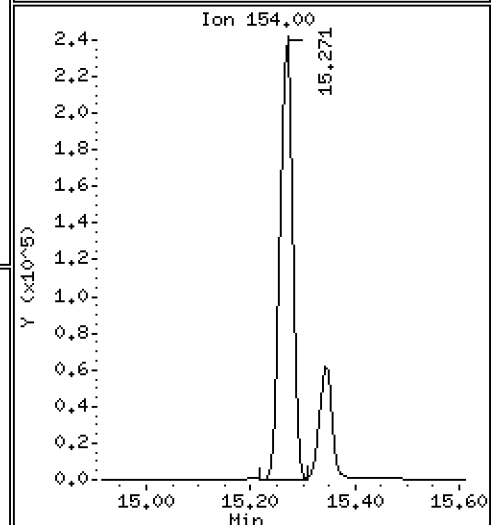
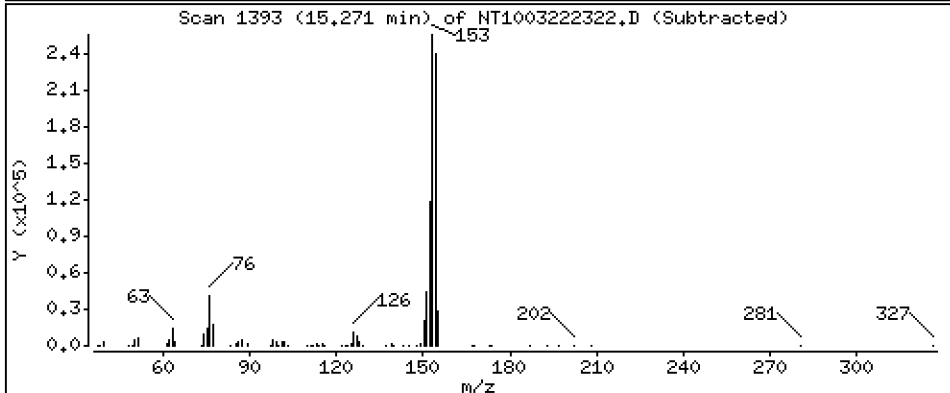
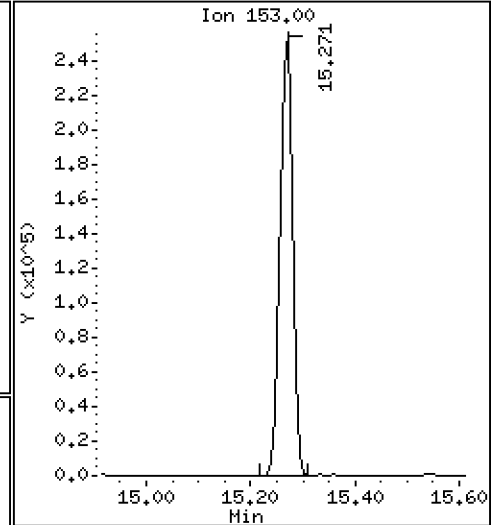
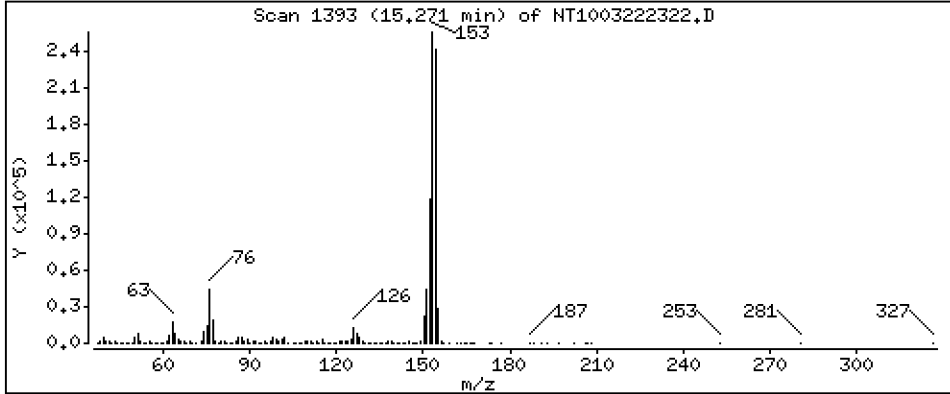
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,596 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

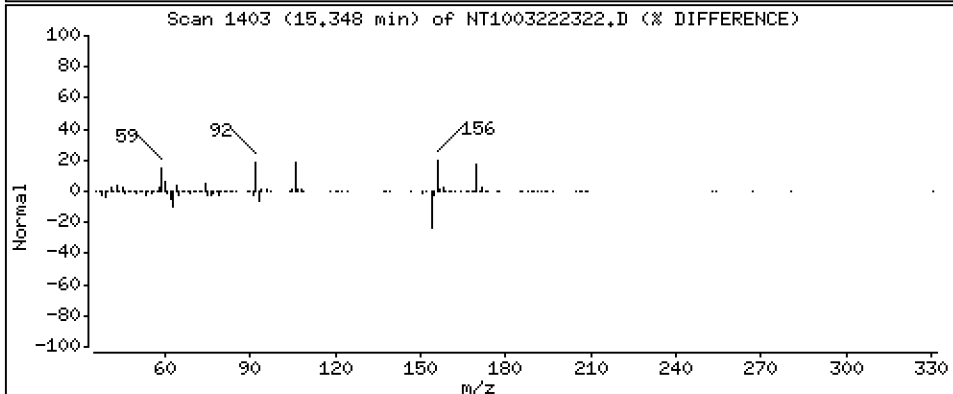
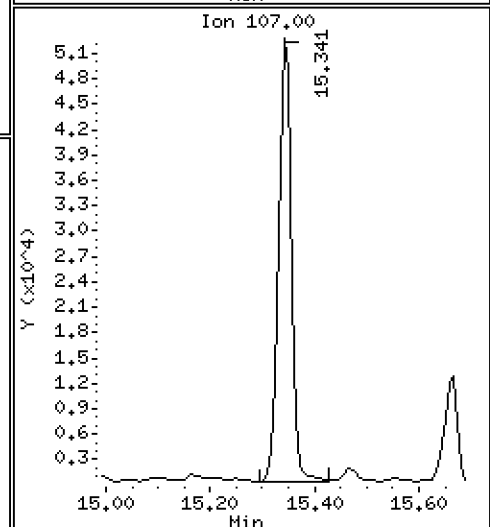
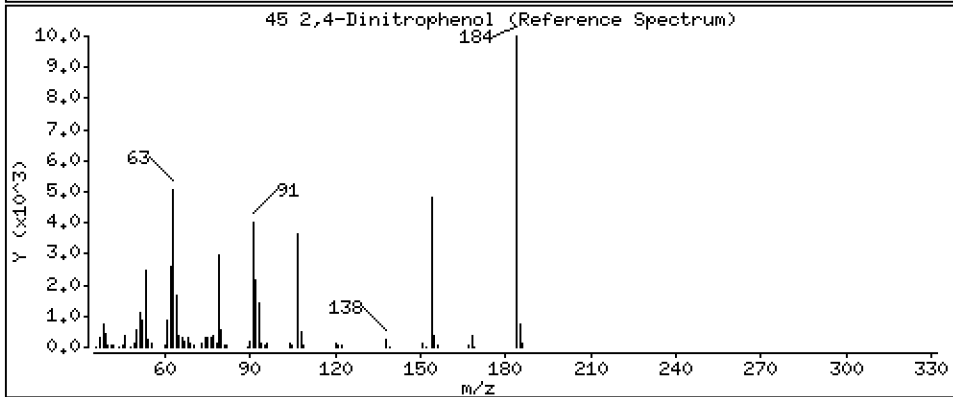
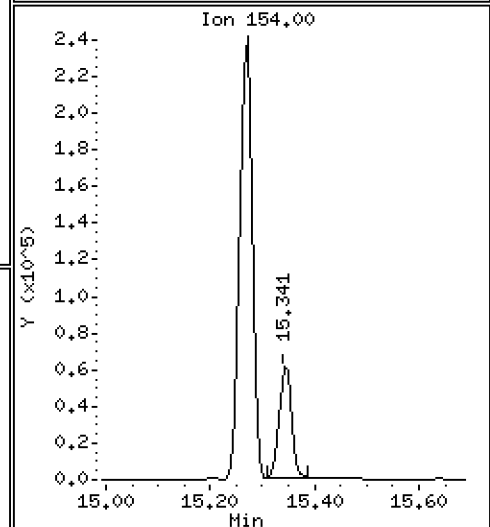
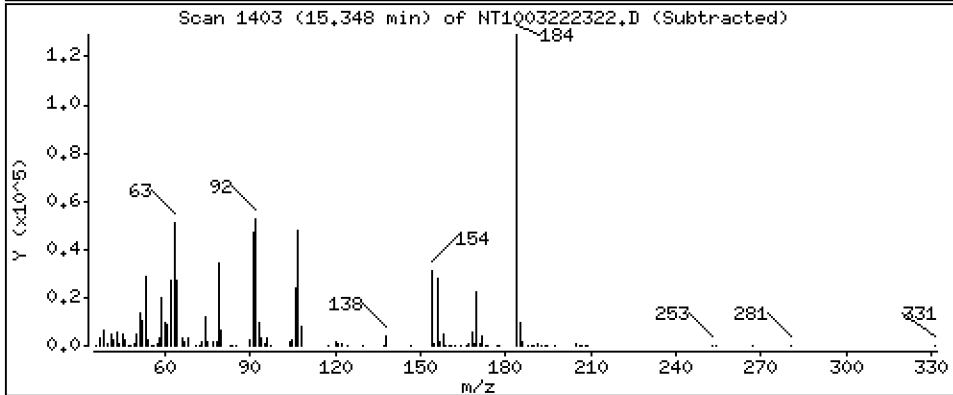
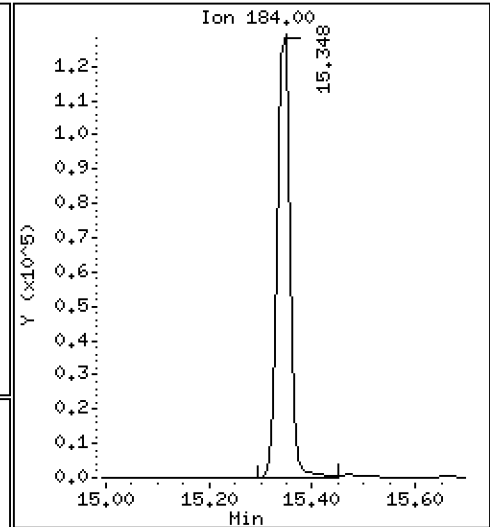
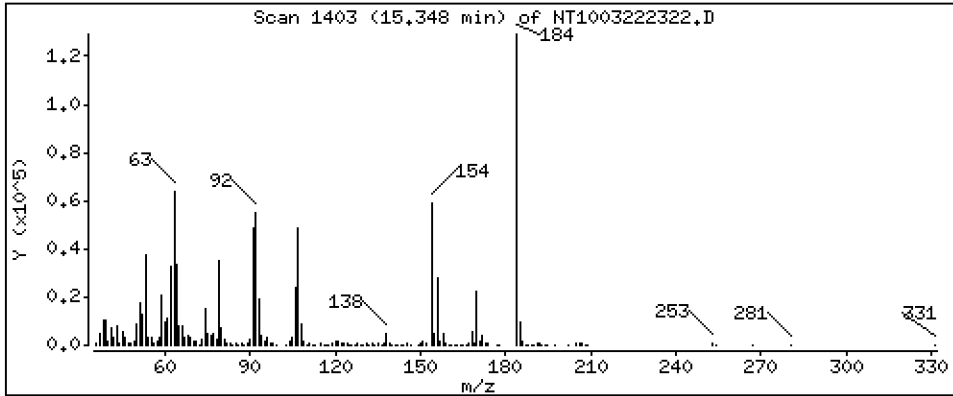
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 16,20 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

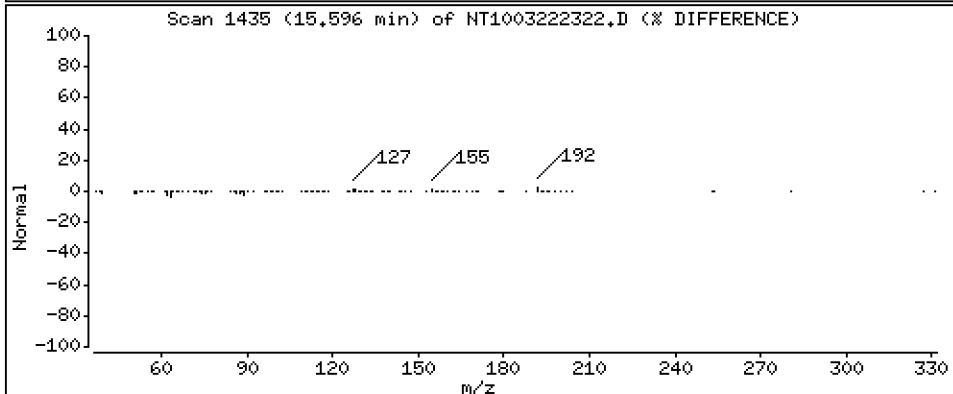
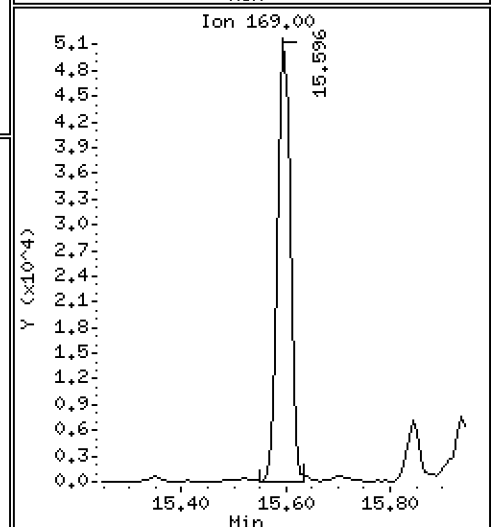
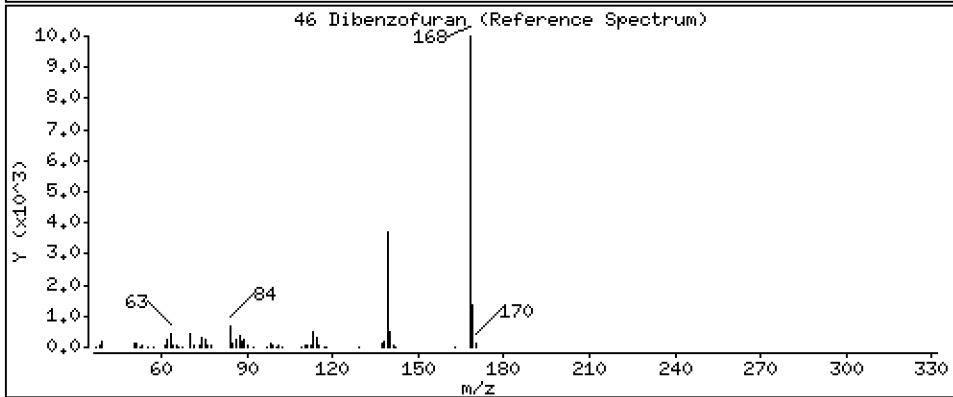
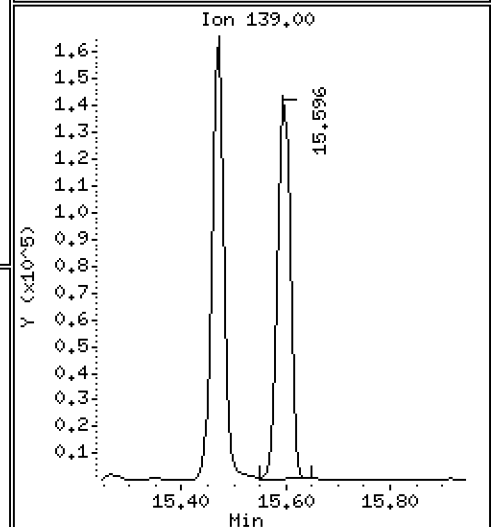
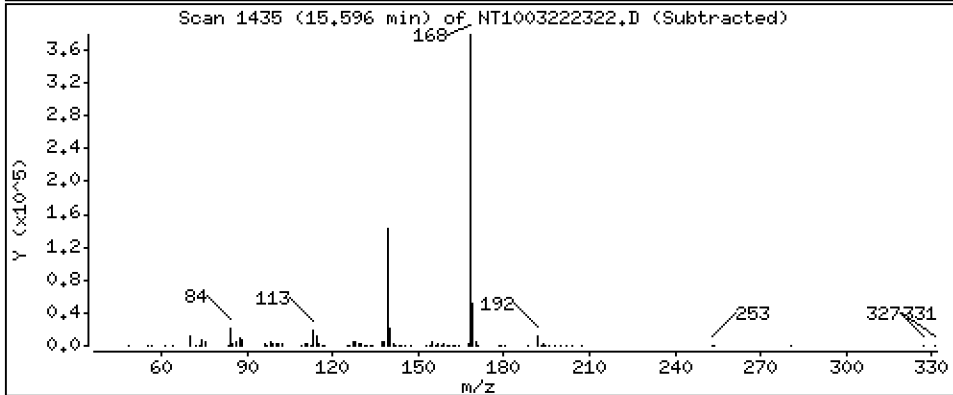
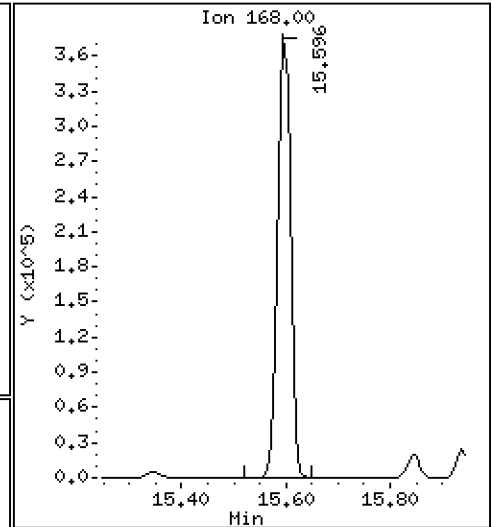
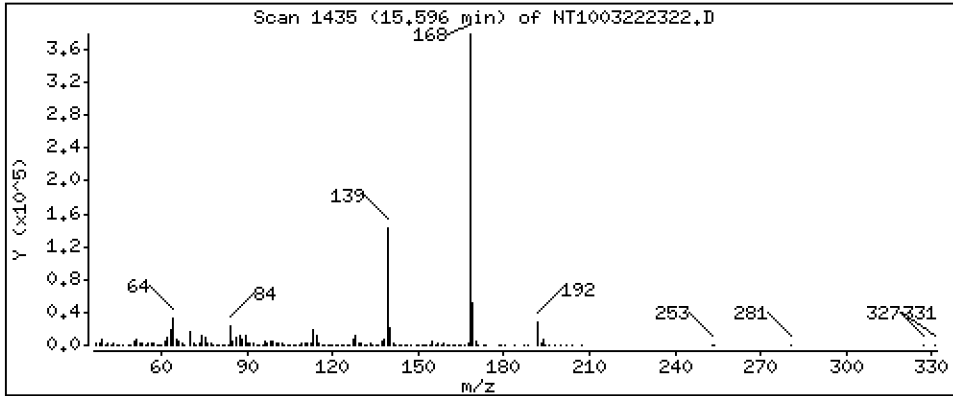
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,659 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

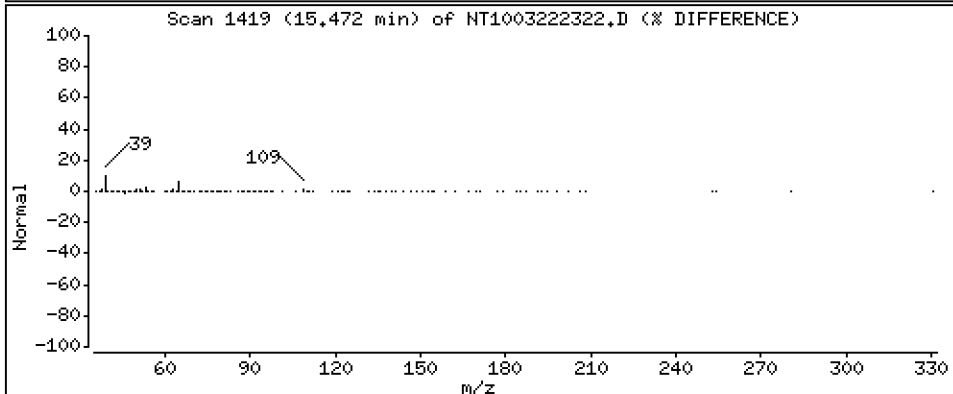
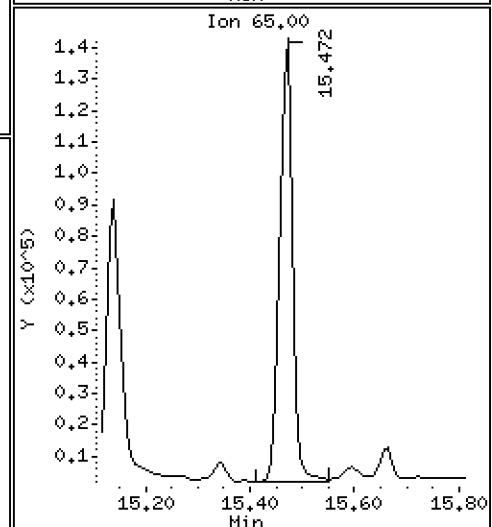
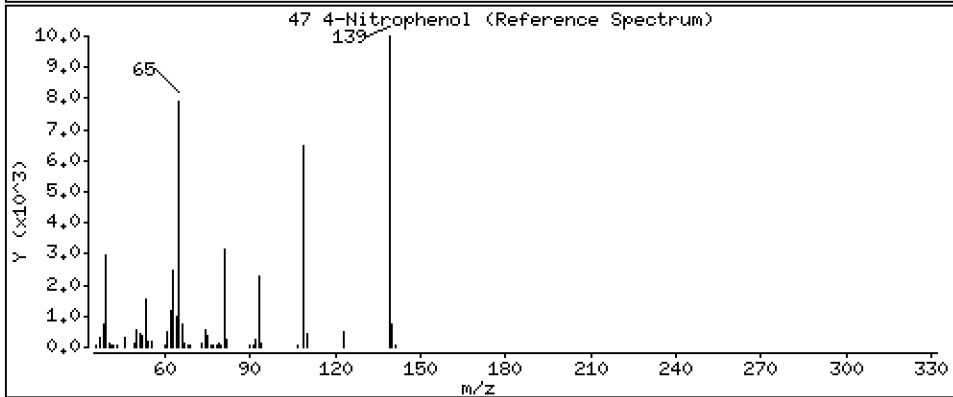
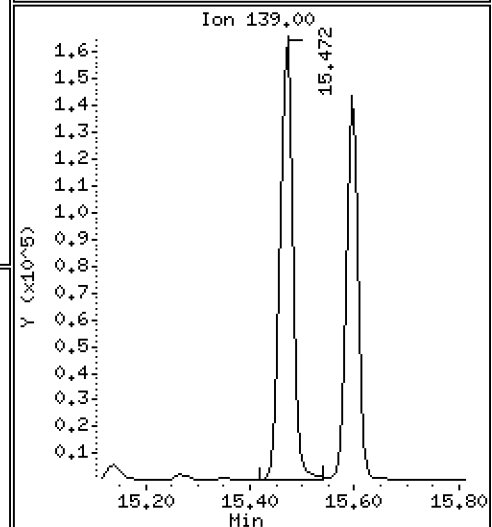
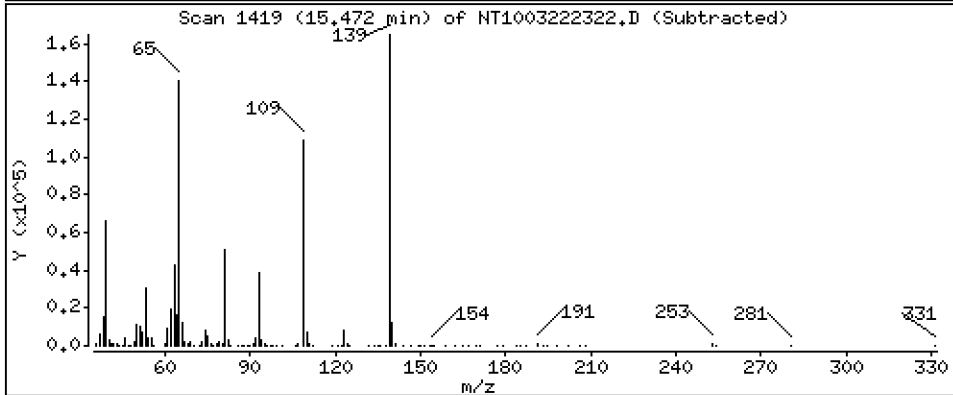
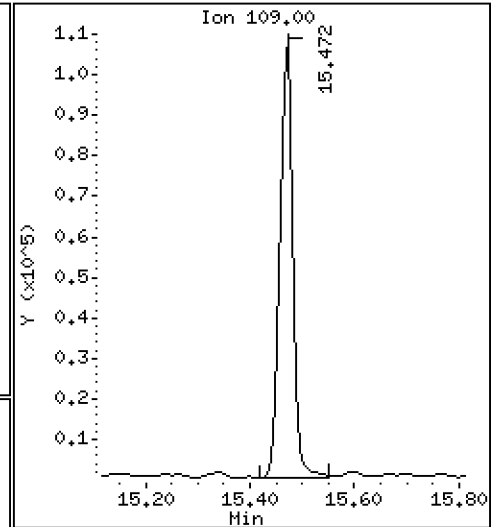
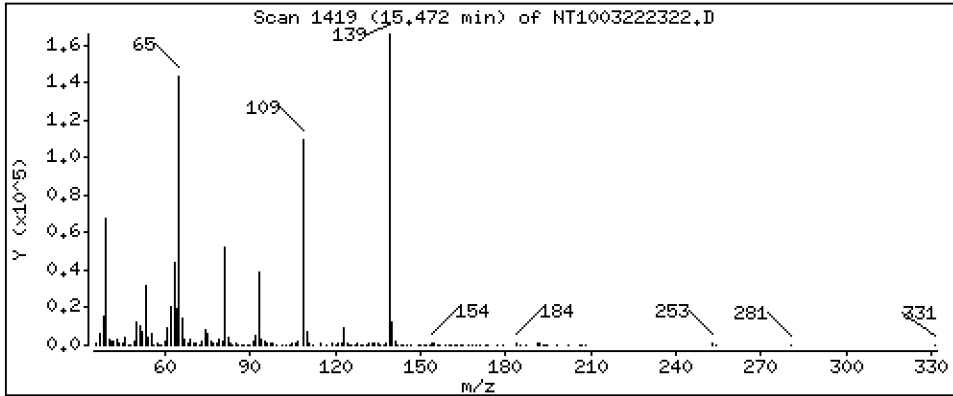
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 12,44 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

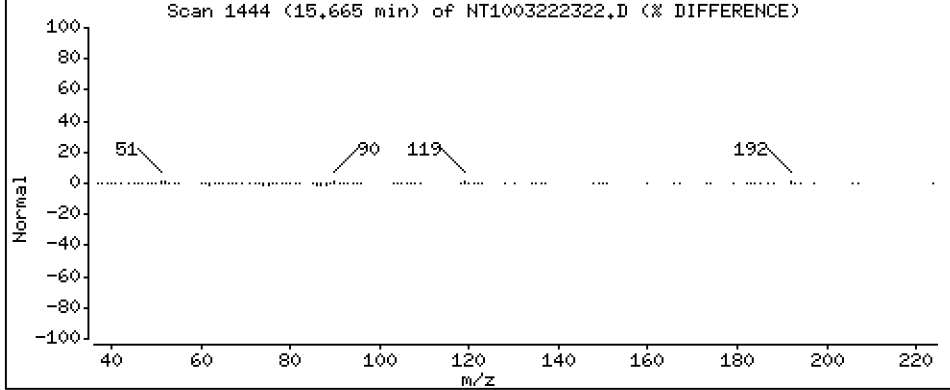
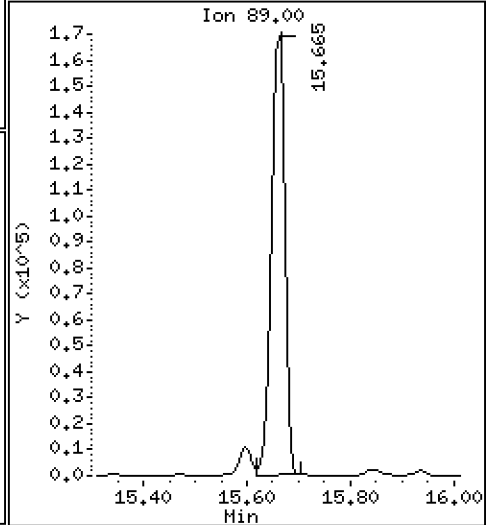
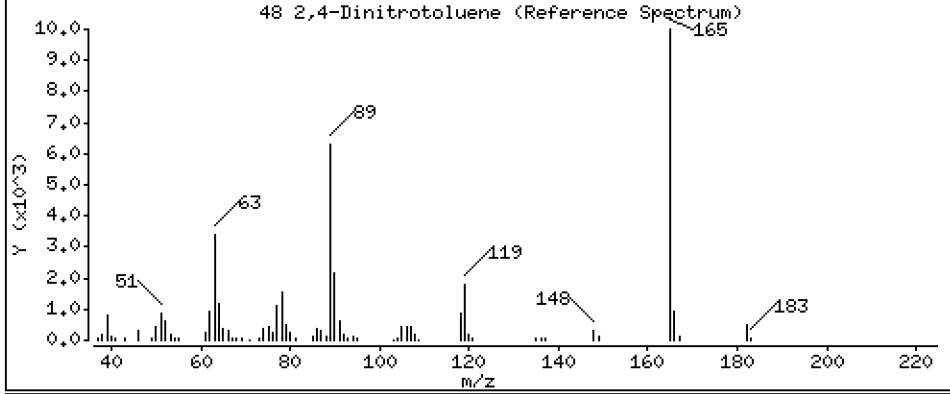
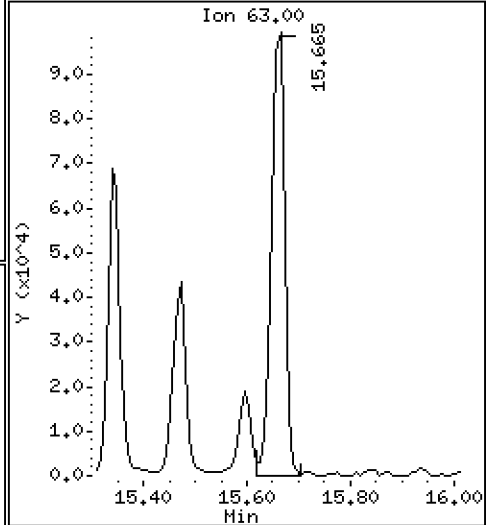
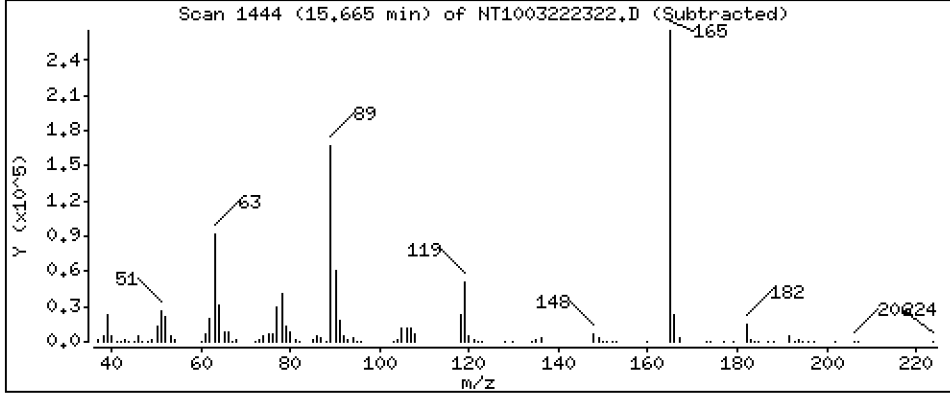
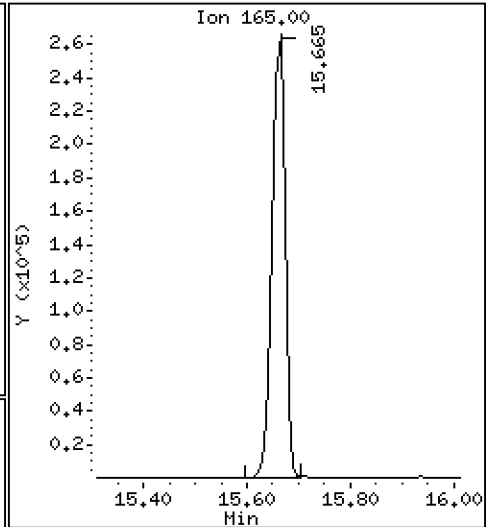
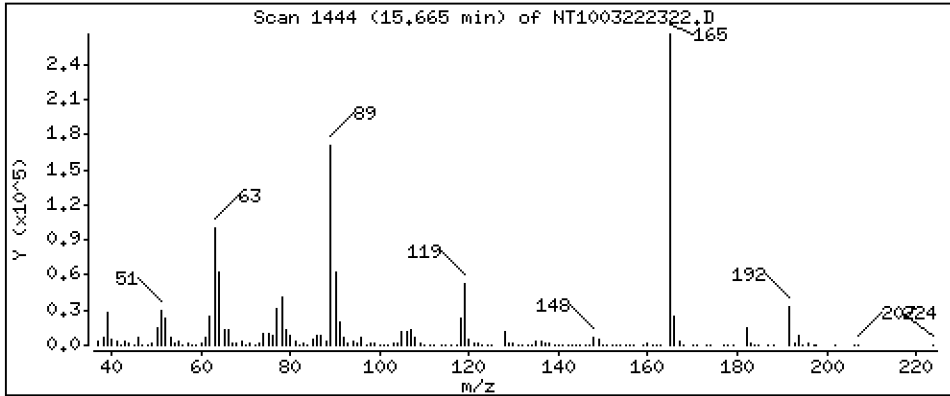
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 14,48 ug/mL





Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

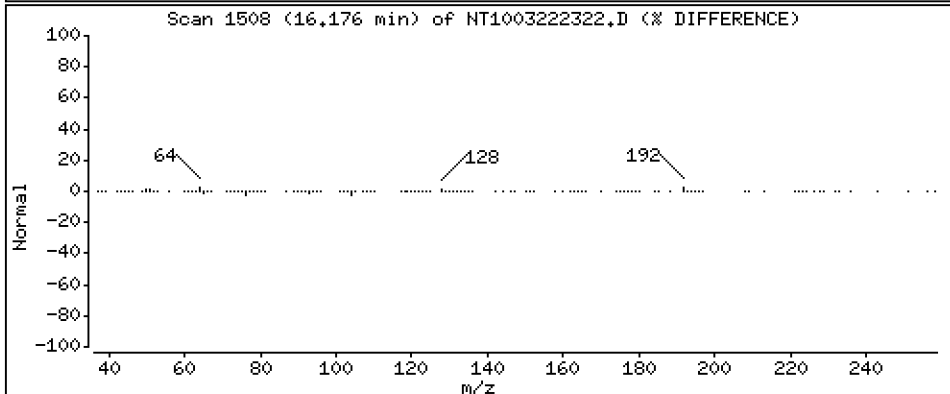
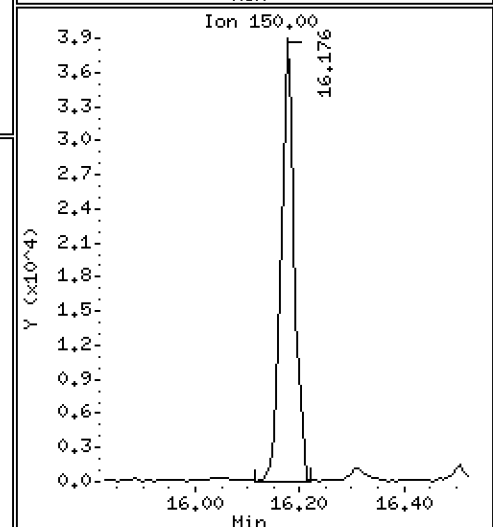
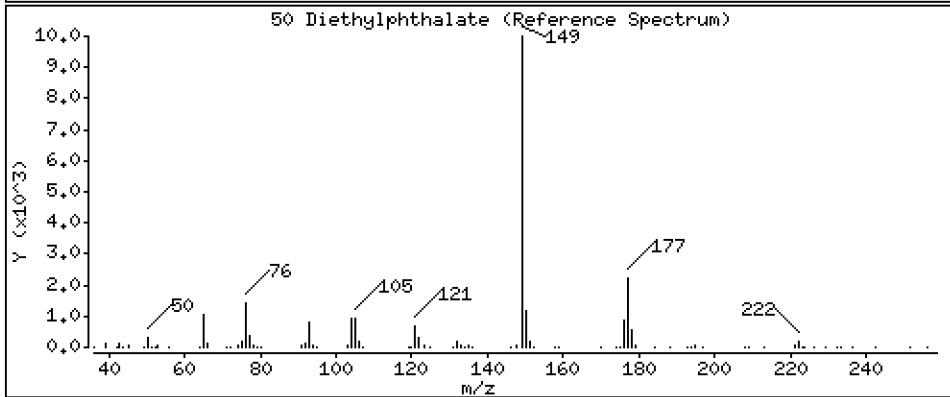
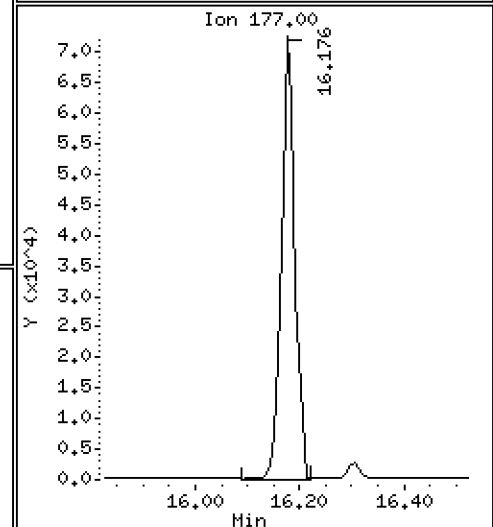
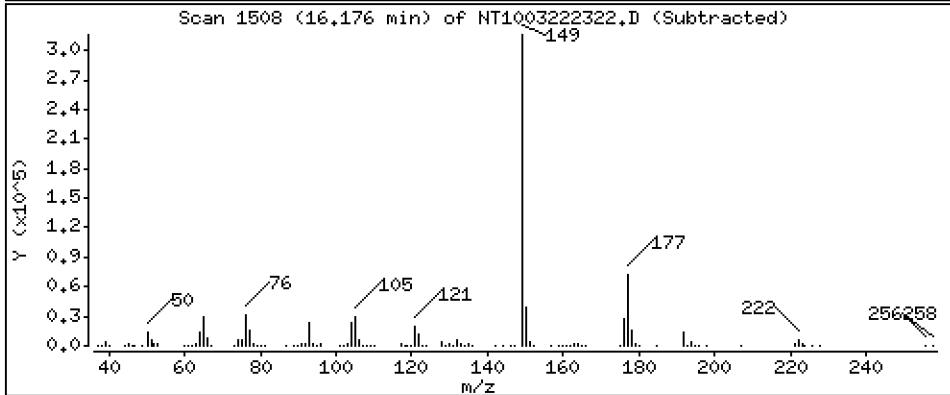
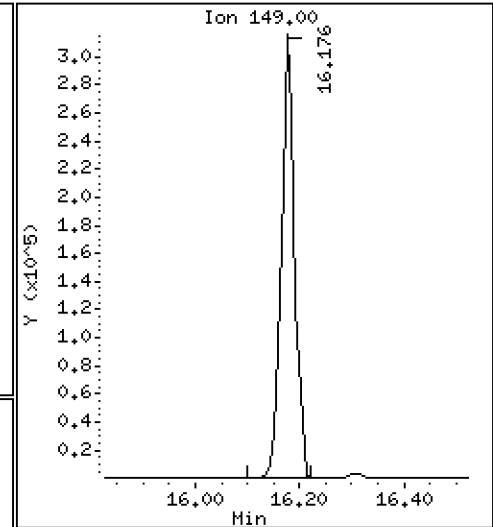
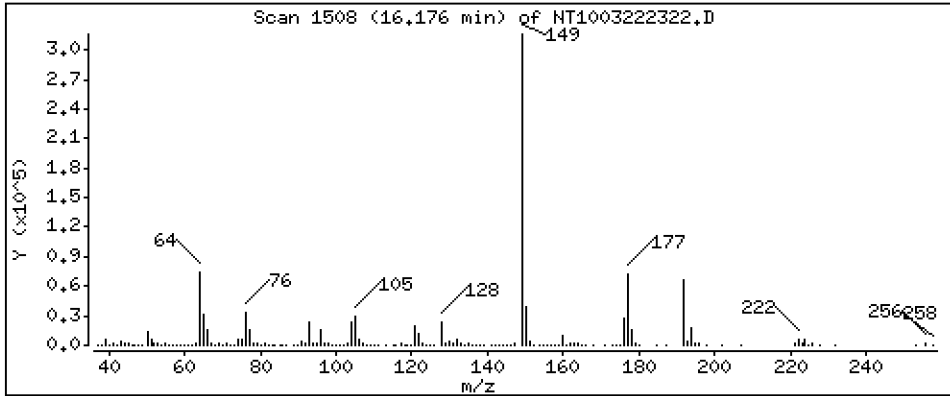
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,977 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

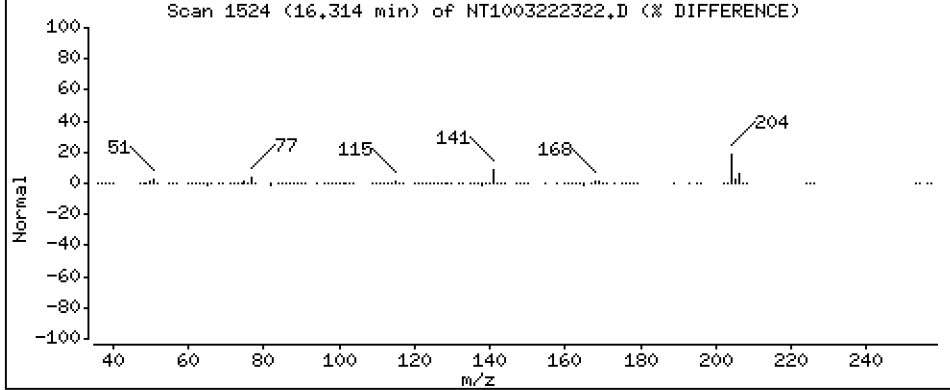
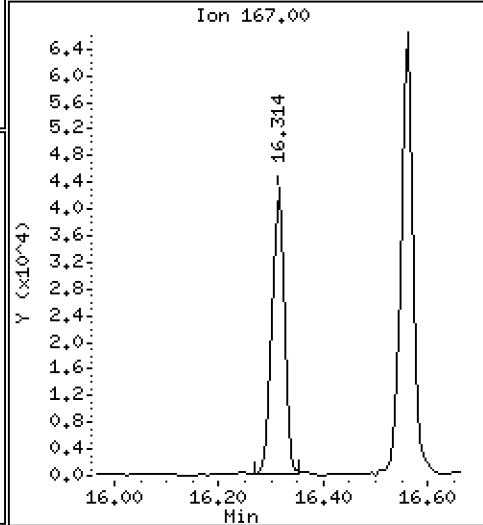
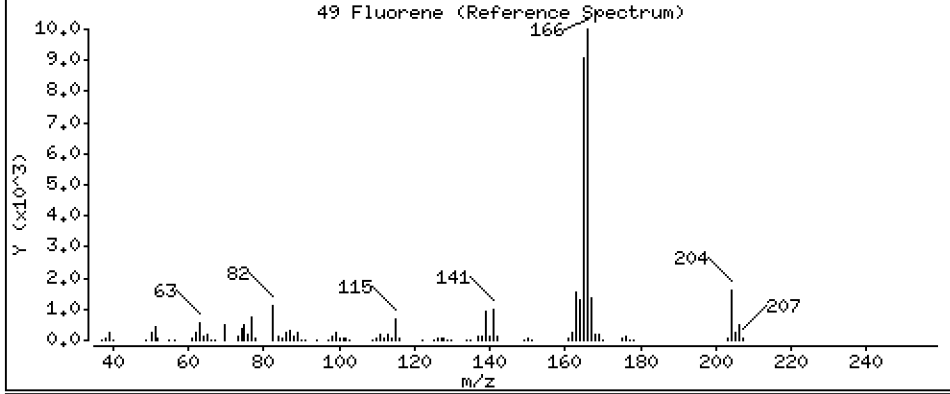
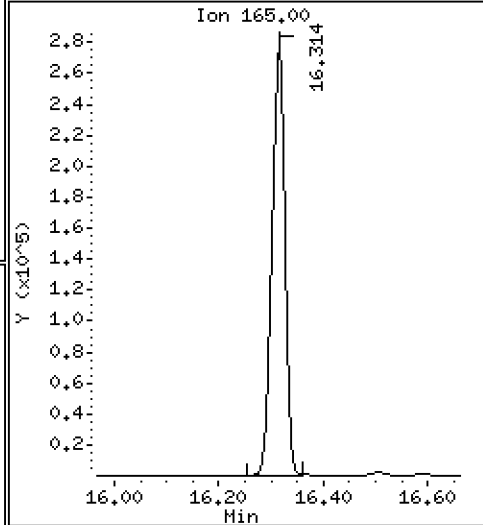
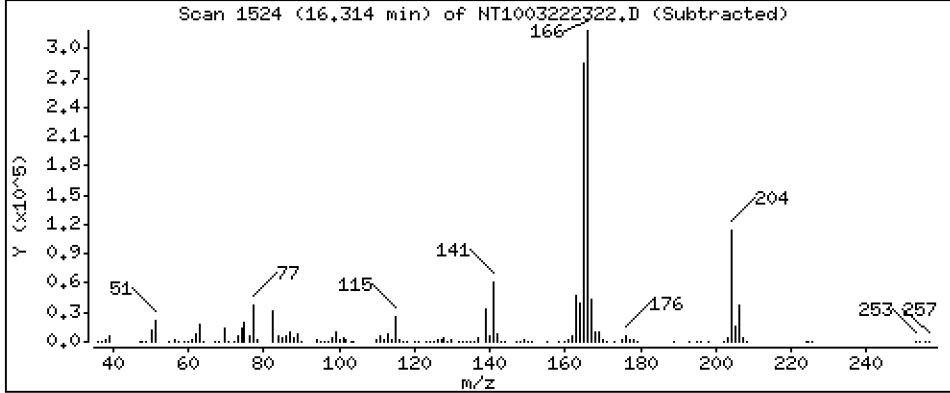
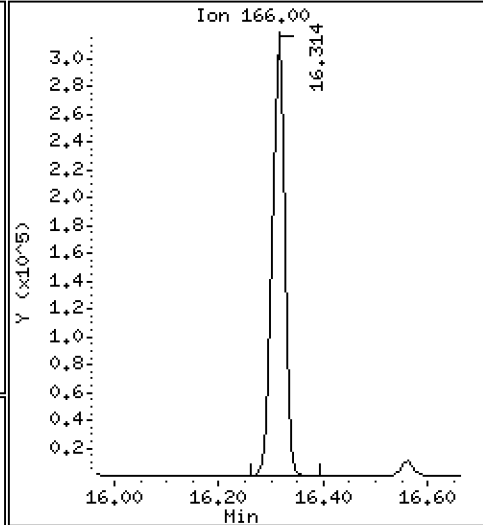
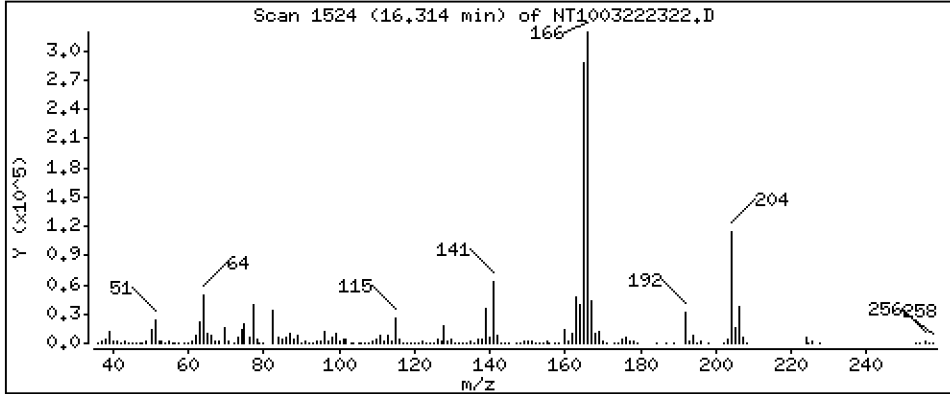
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,898 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

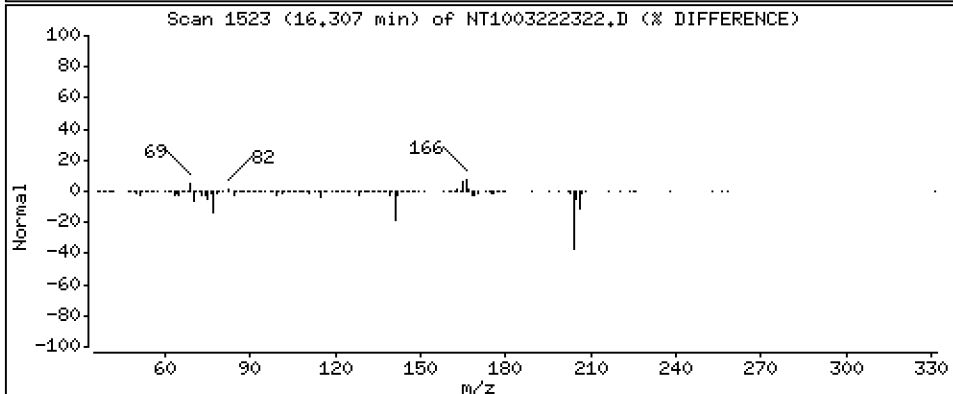
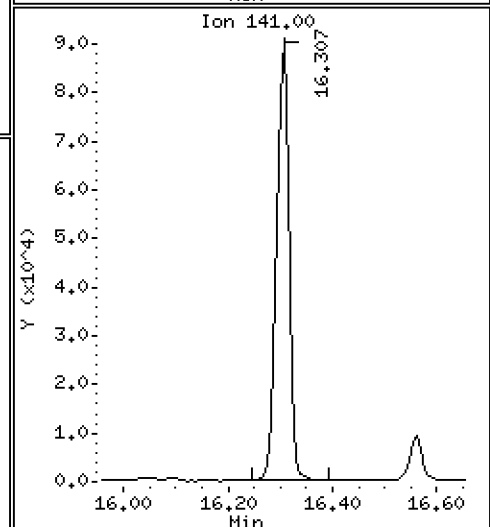
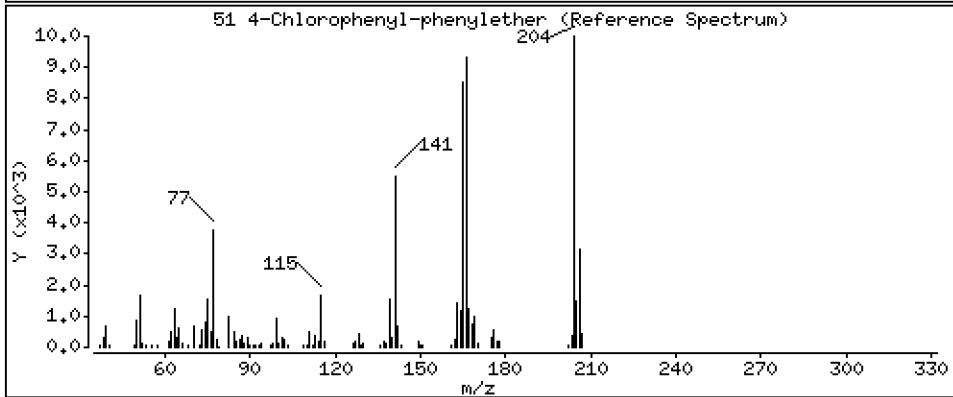
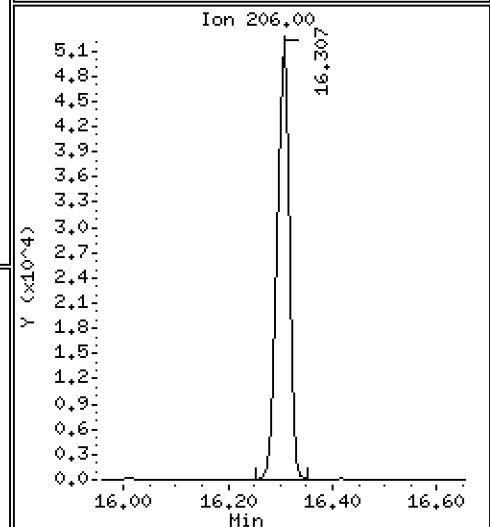
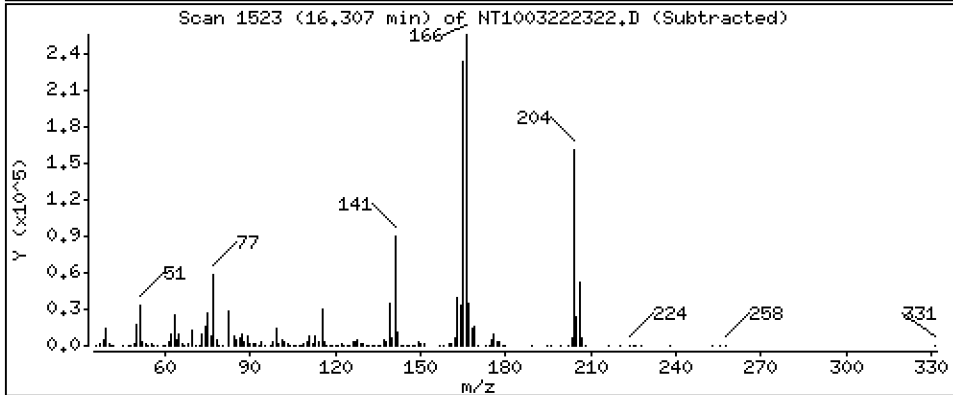
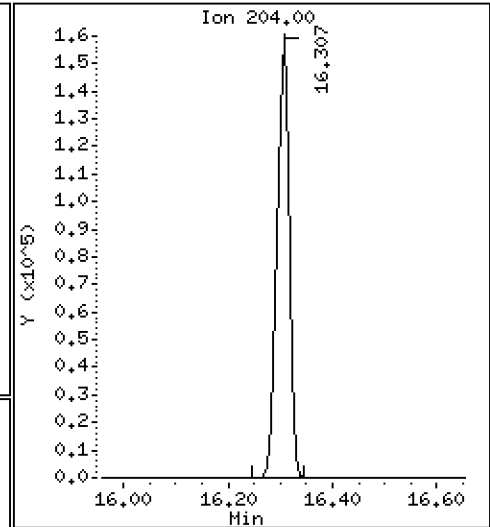
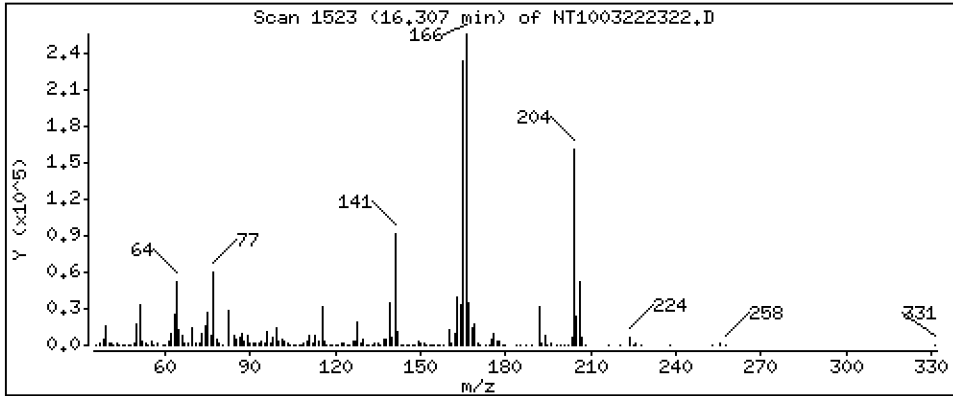
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 5,062 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

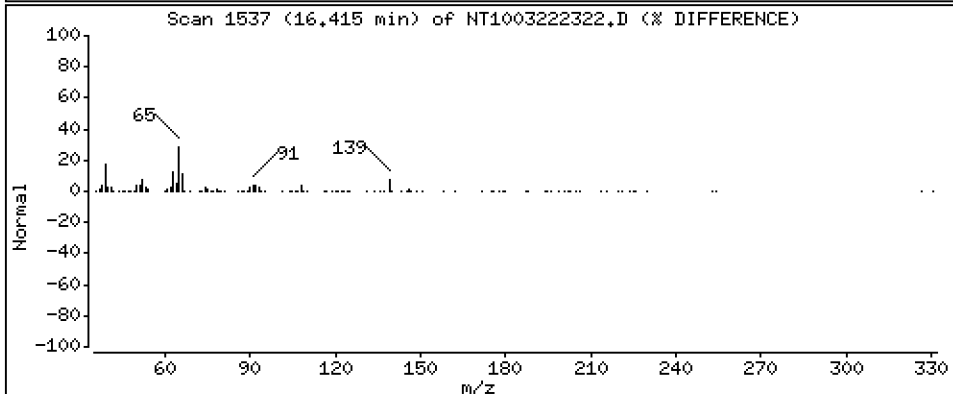
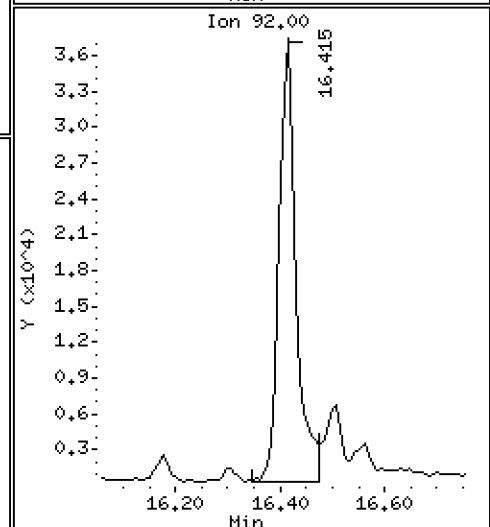
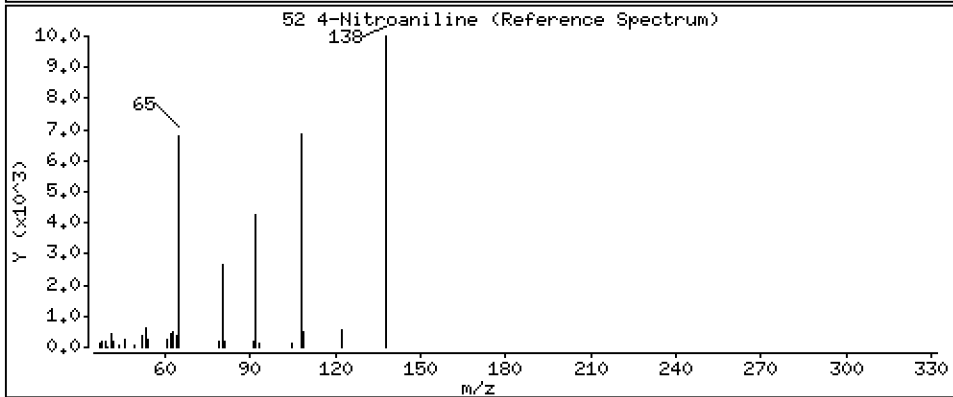
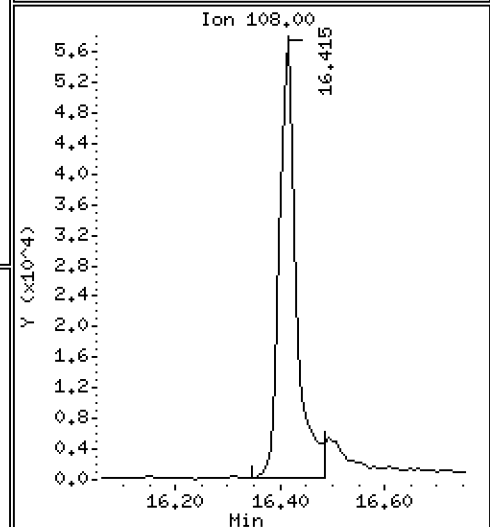
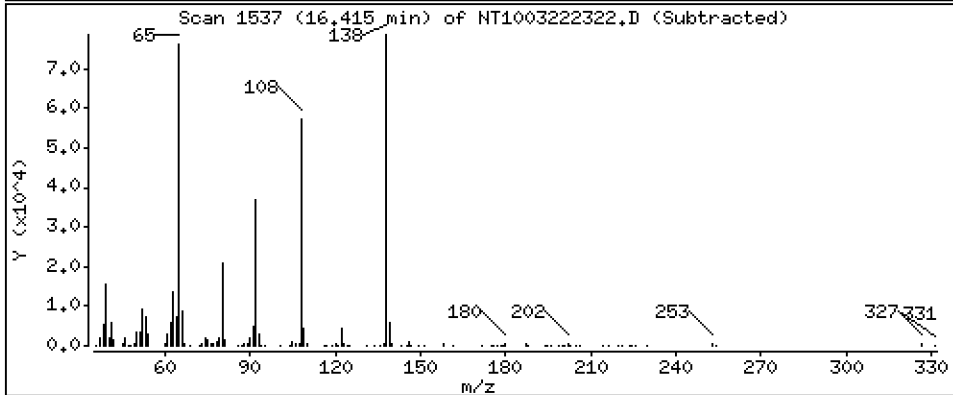
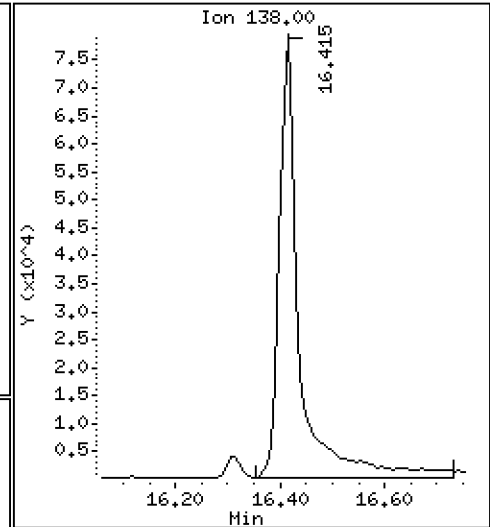
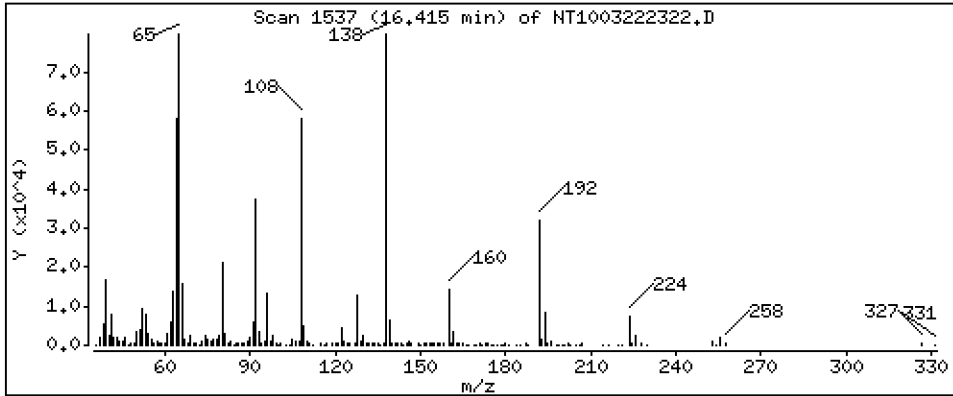
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 9,840 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

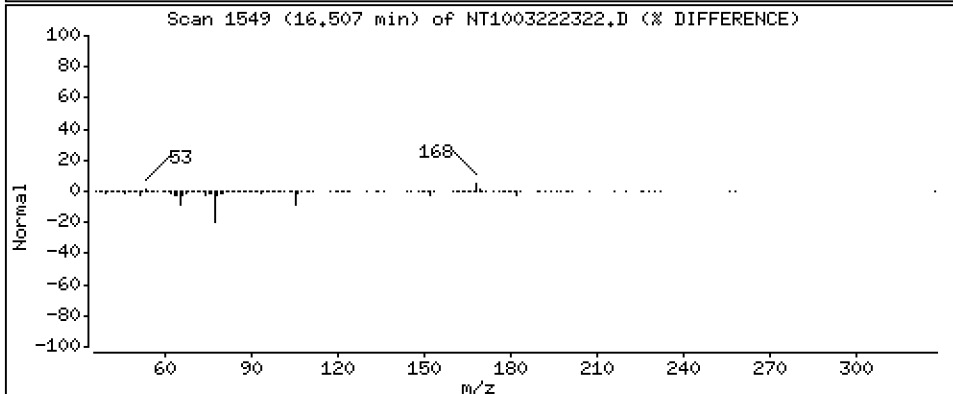
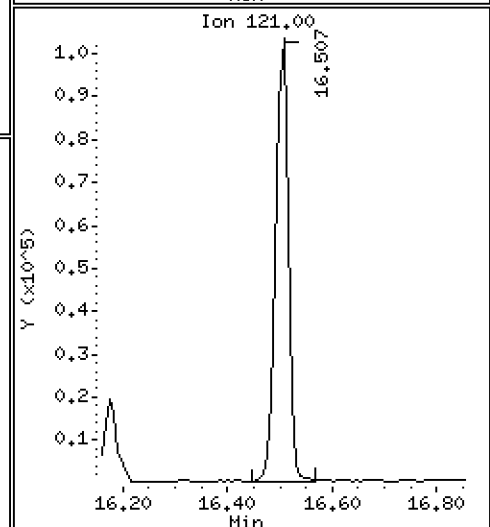
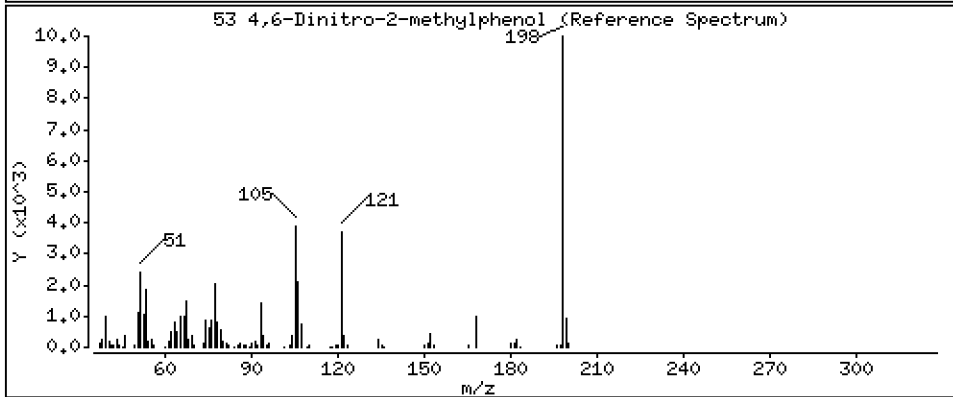
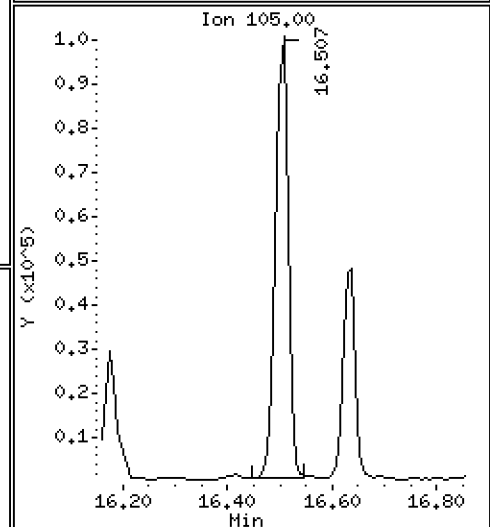
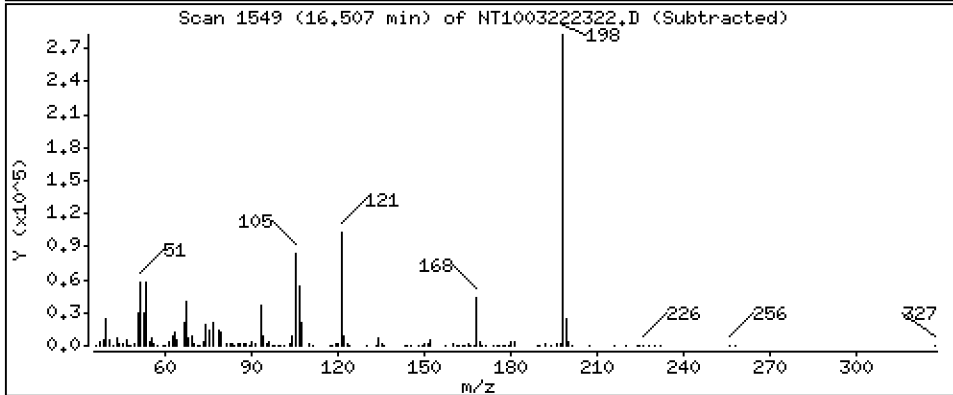
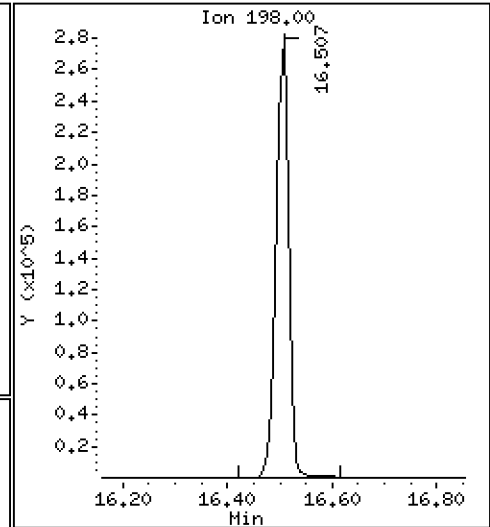
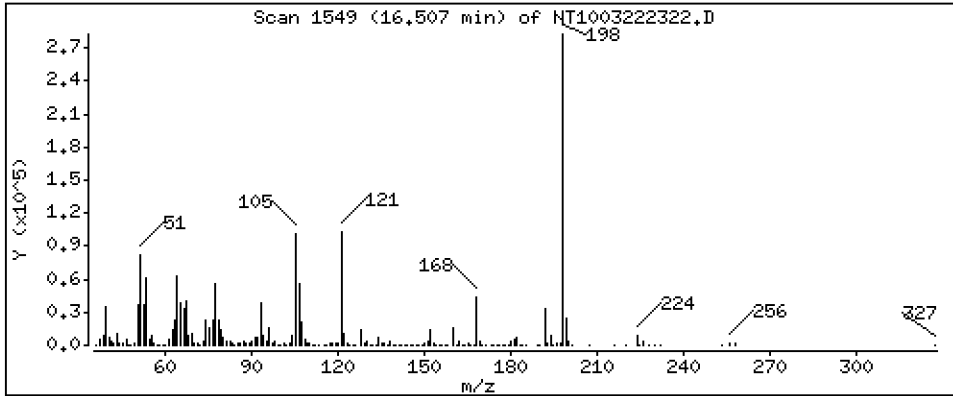
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 25,48 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

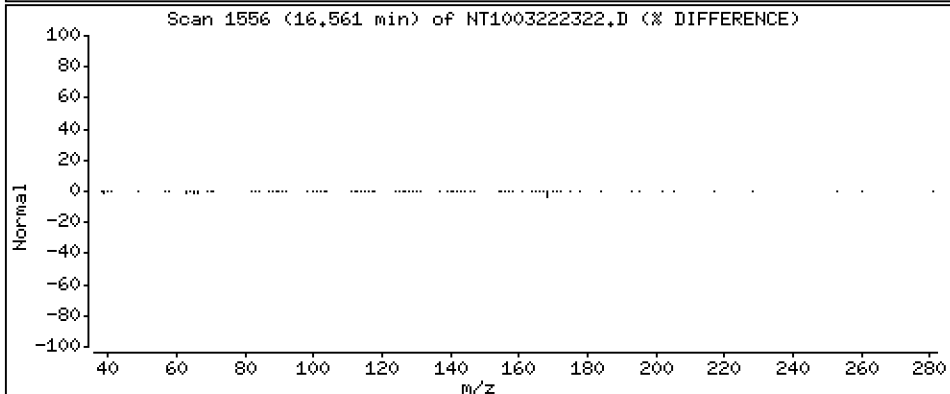
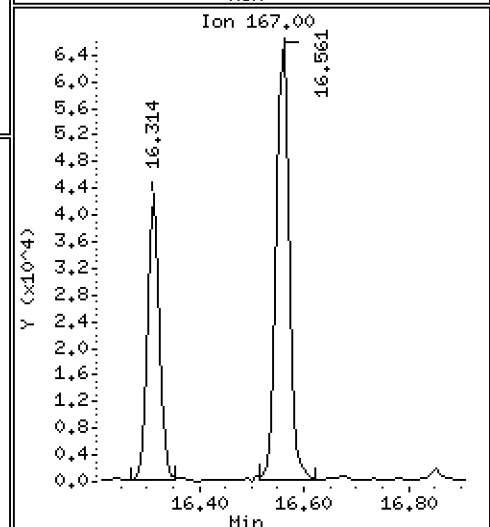
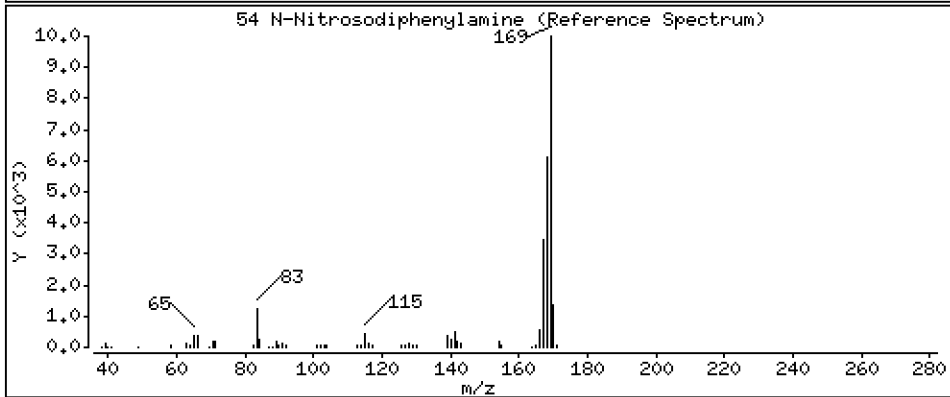
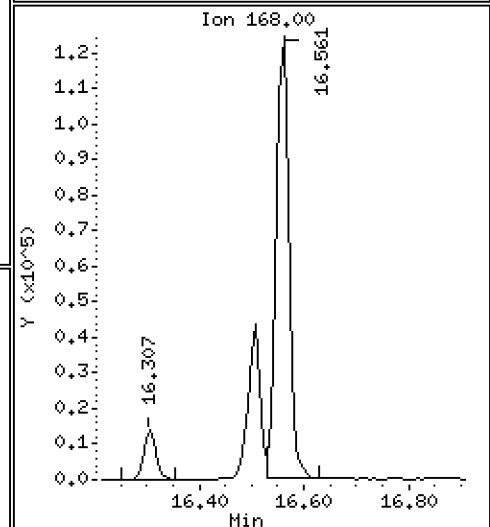
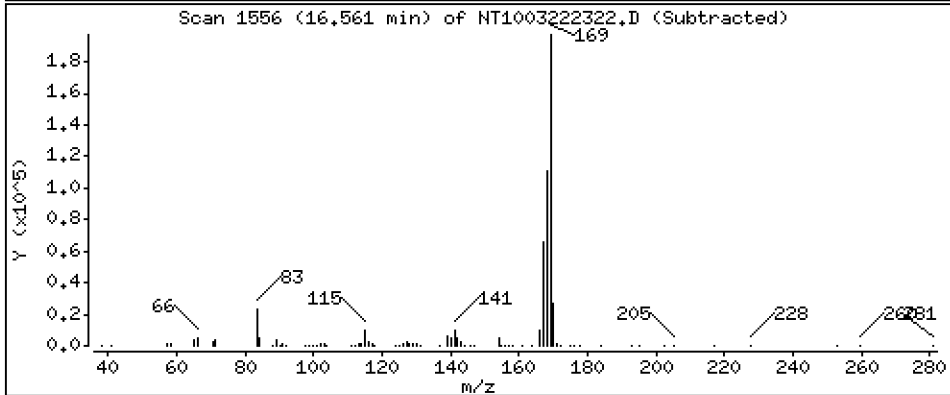
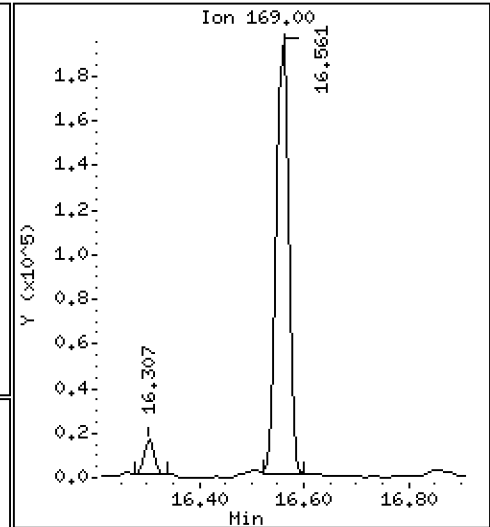
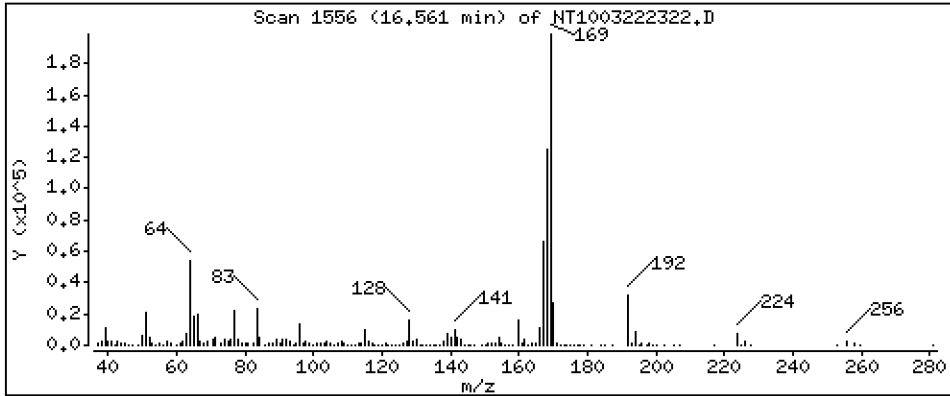
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,099 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

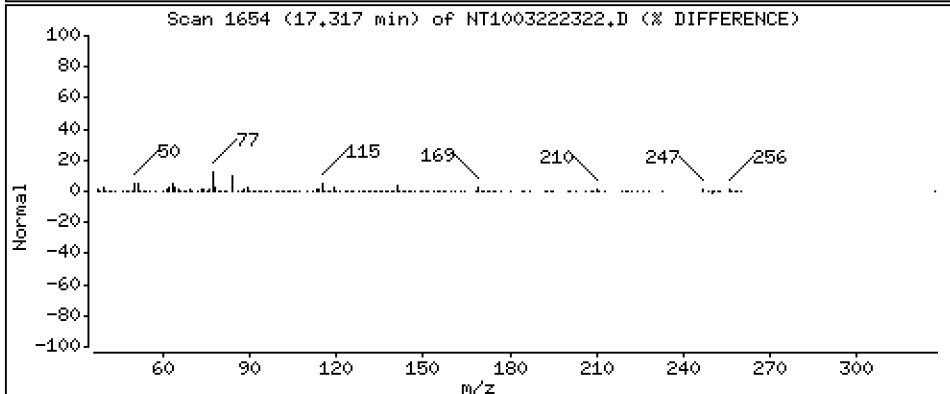
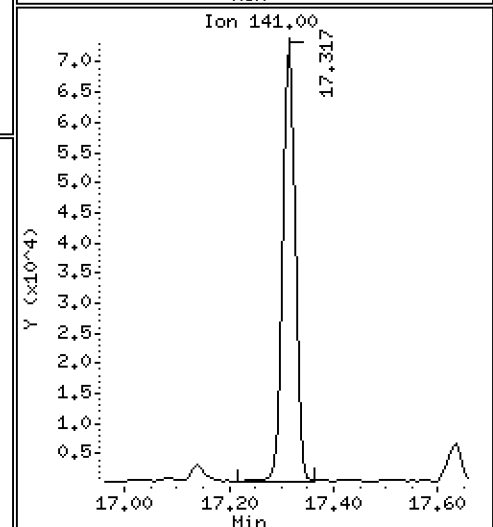
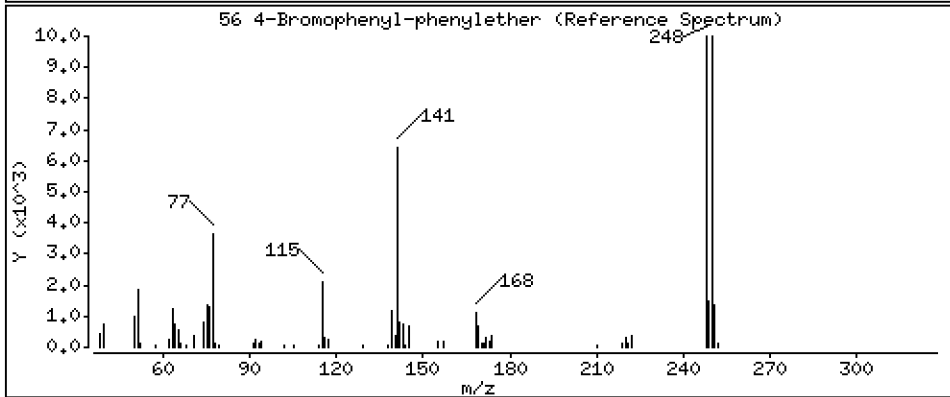
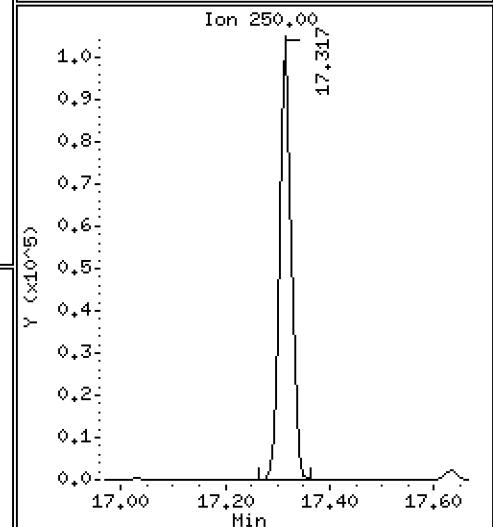
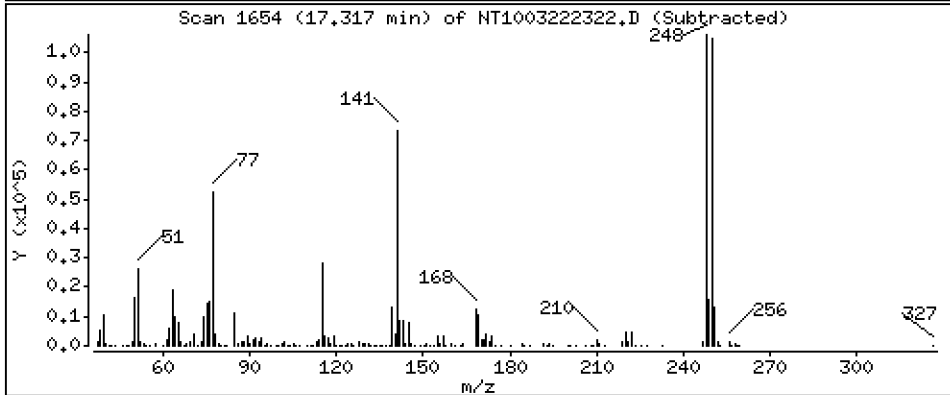
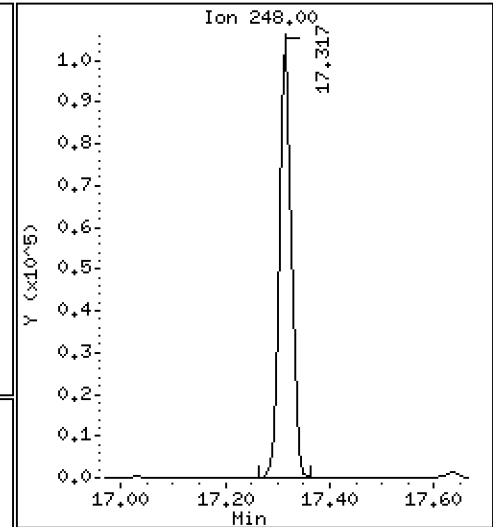
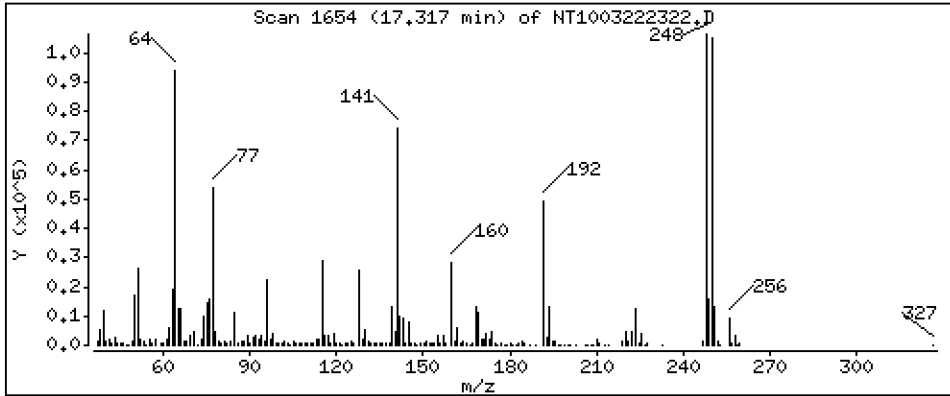
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,237 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

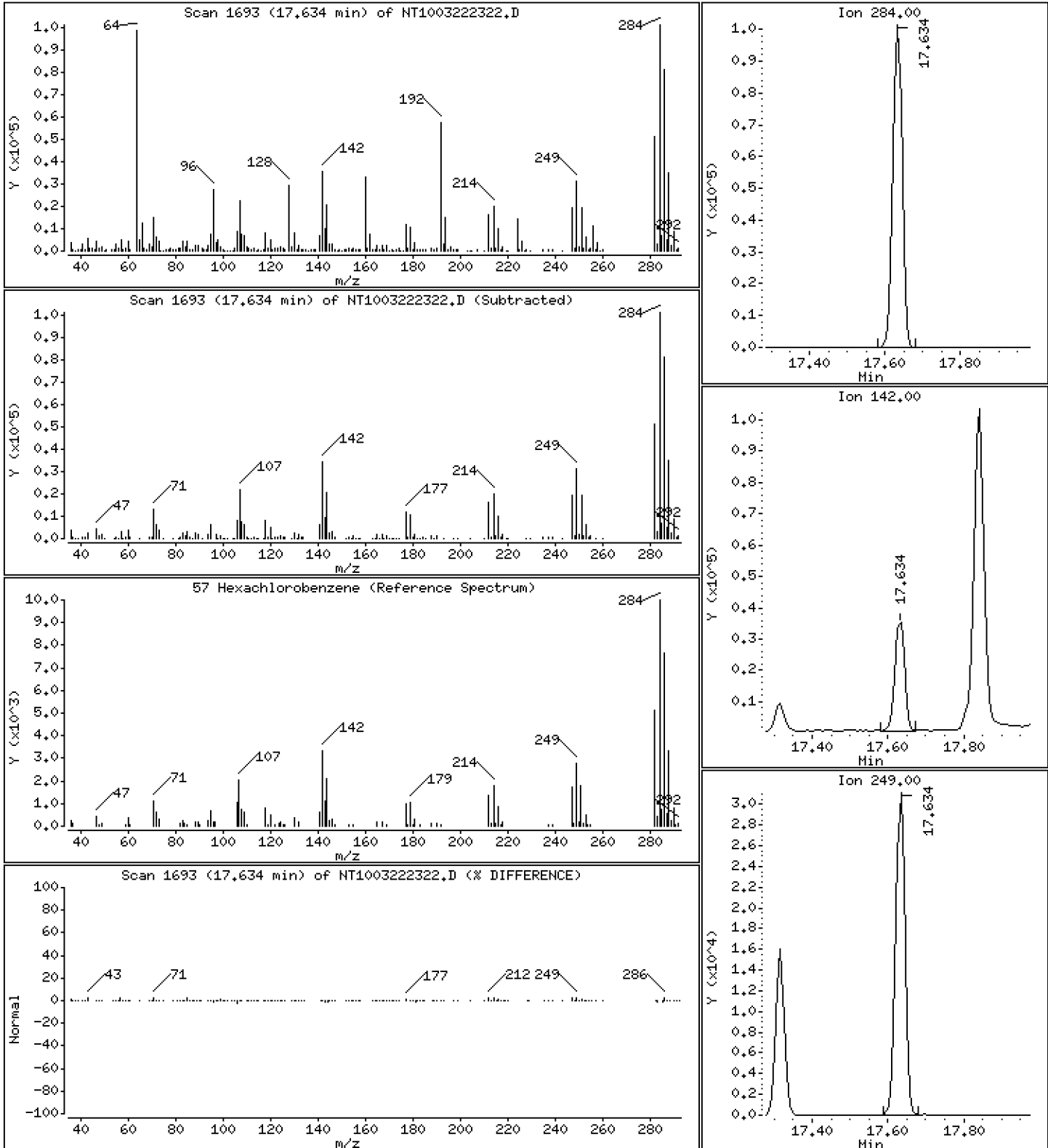
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 5,074 ug/mL





Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

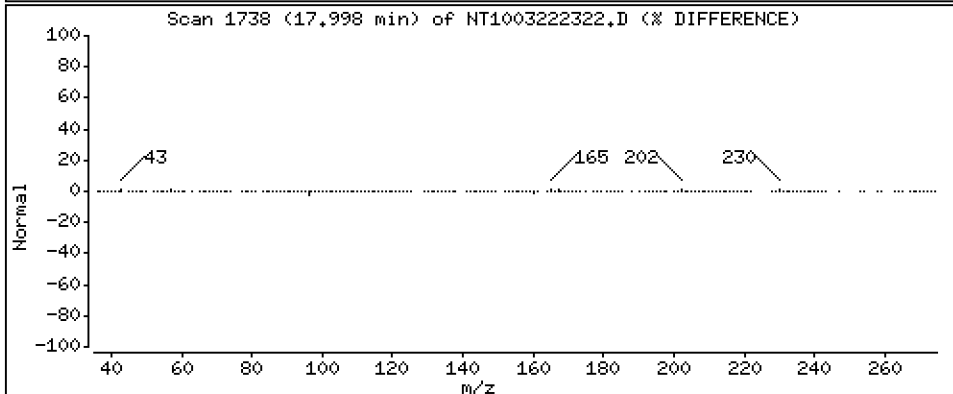
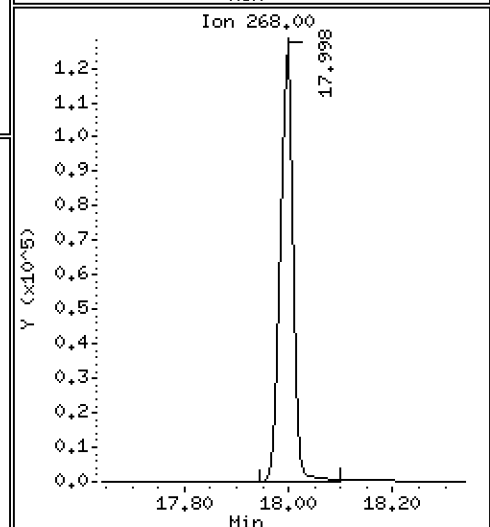
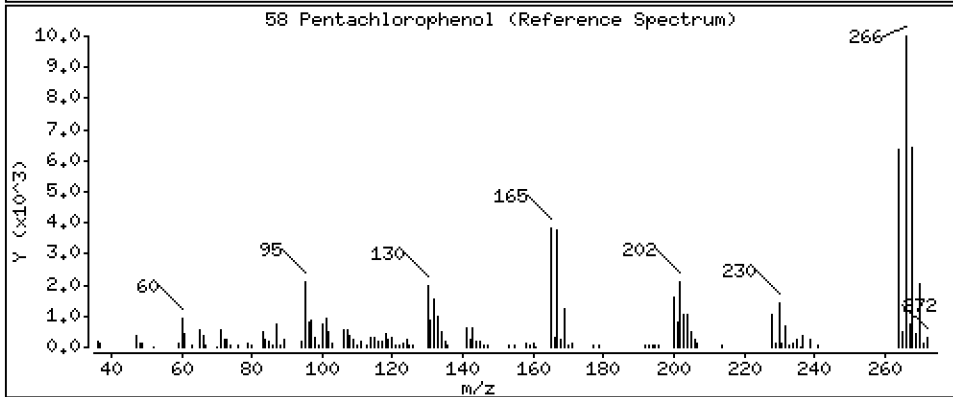
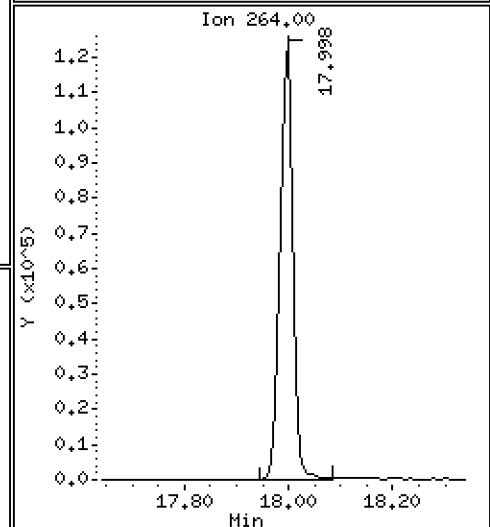
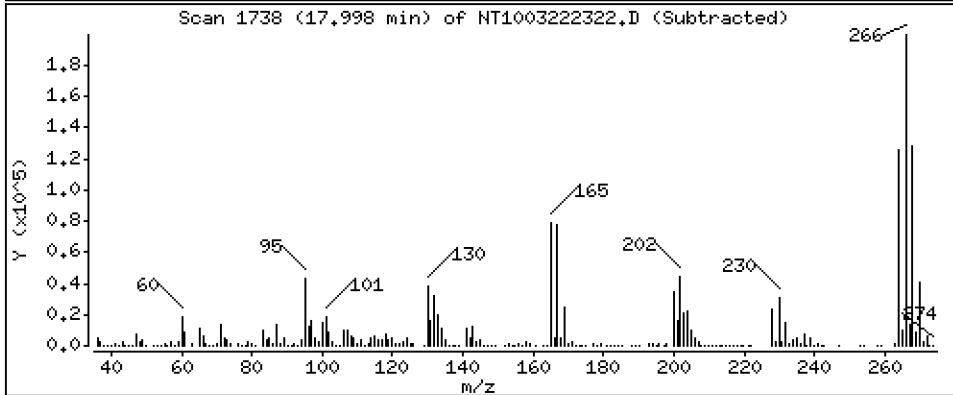
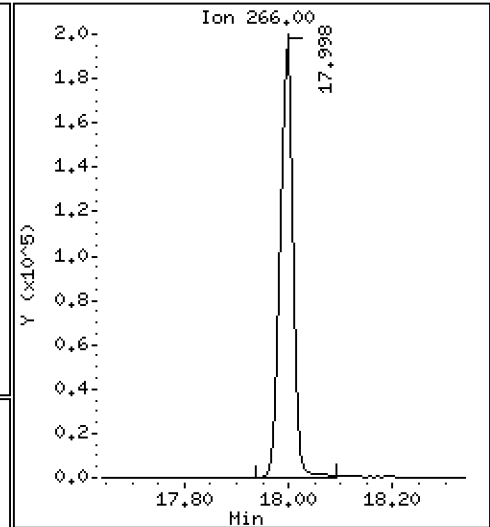
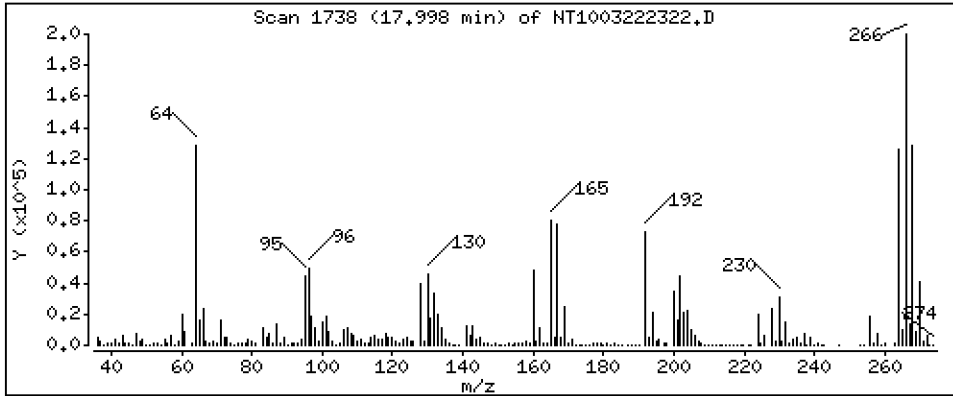
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 16,34 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

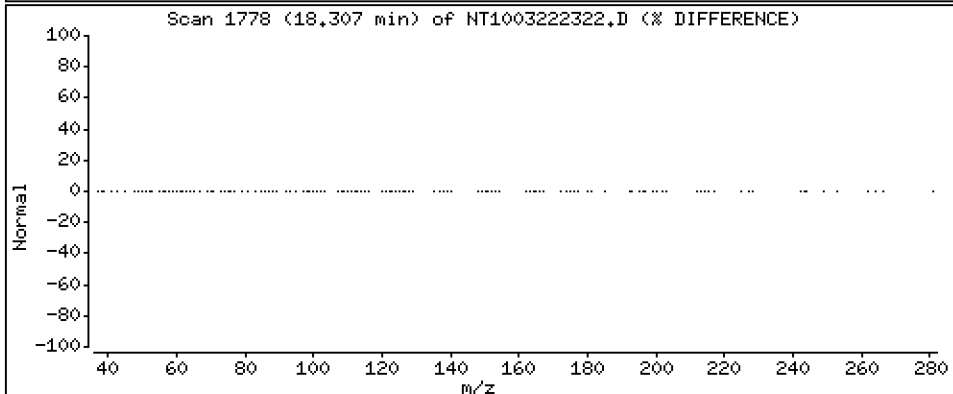
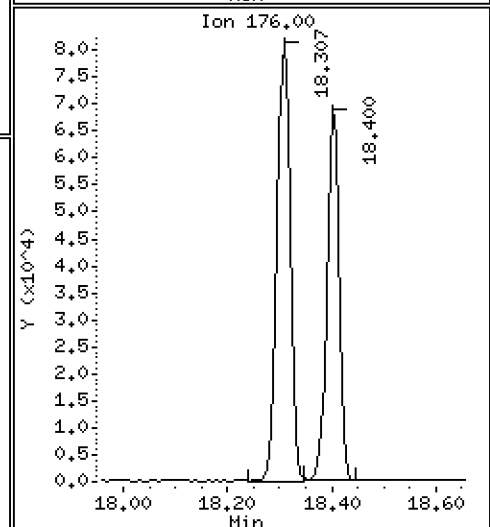
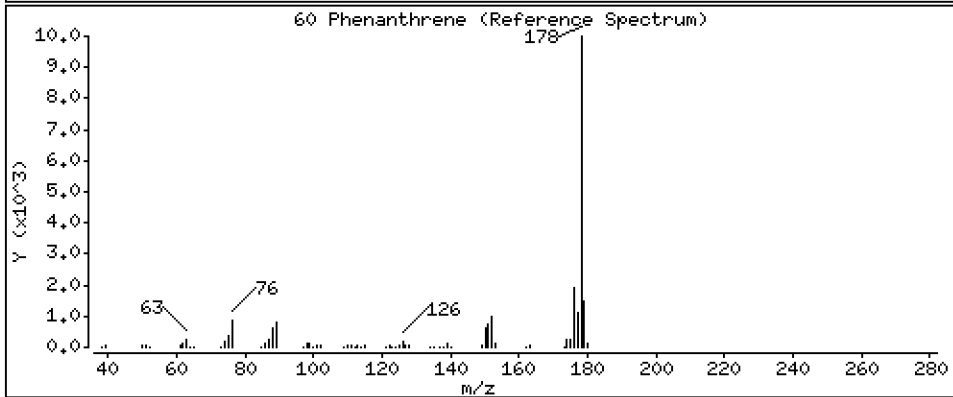
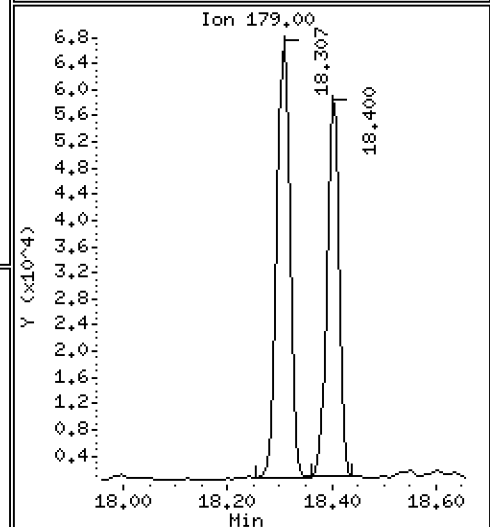
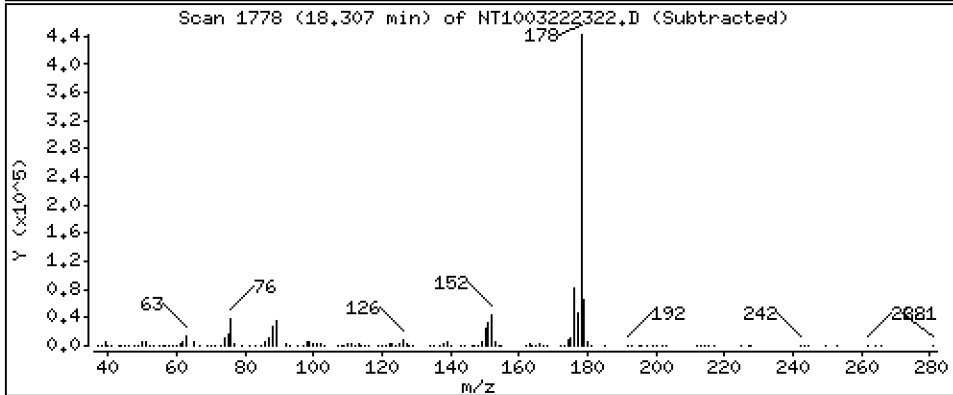
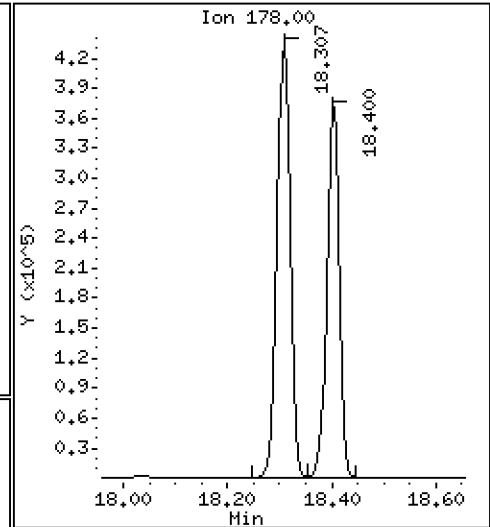
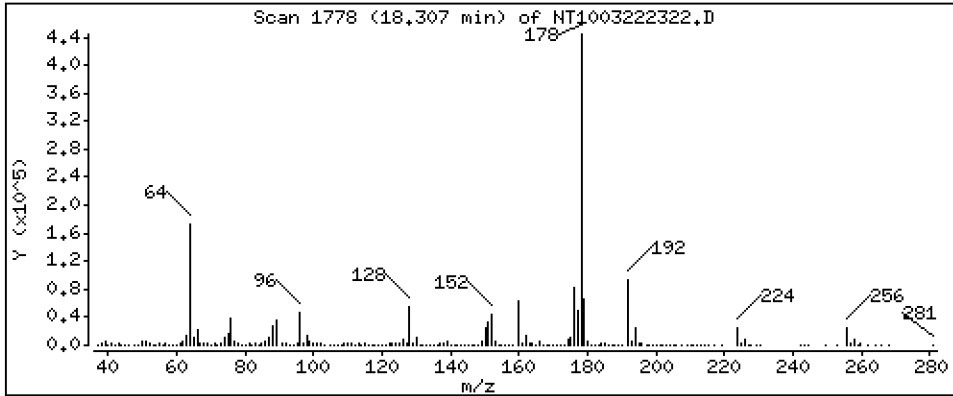
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,814 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

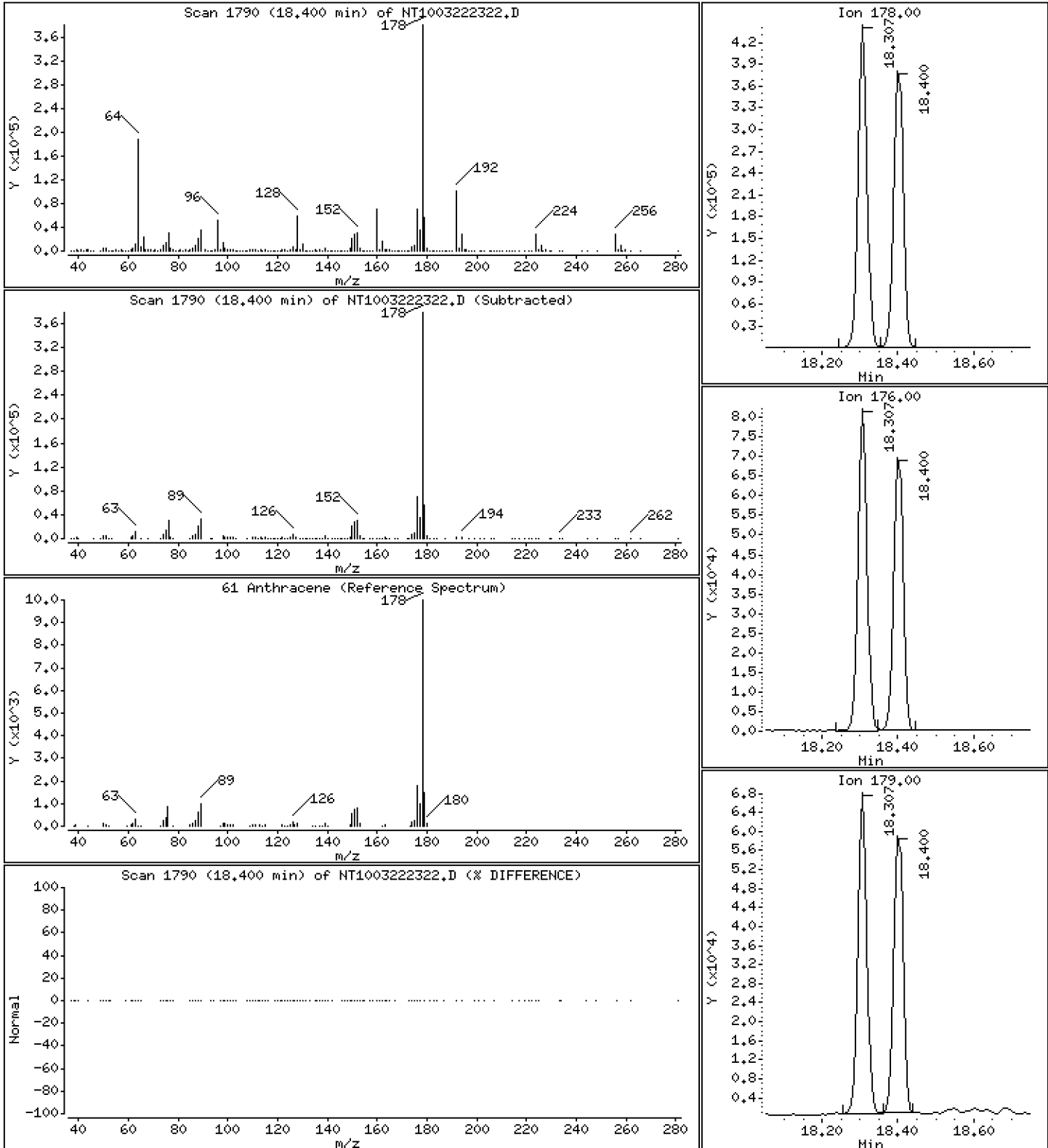
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,292 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

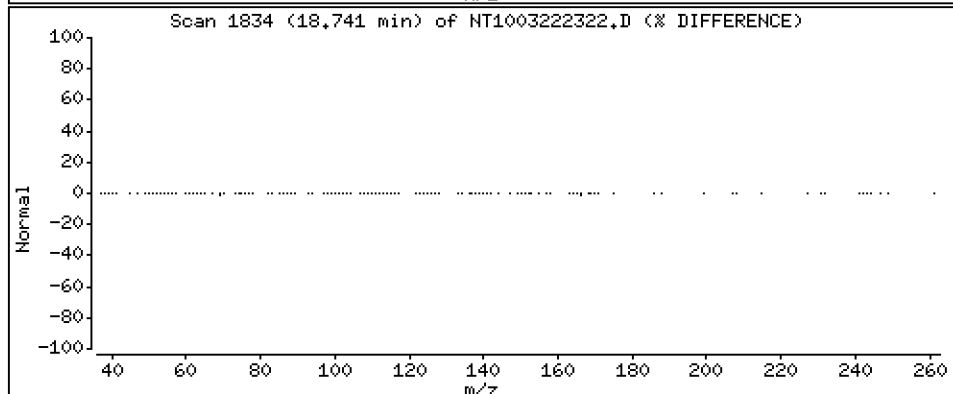
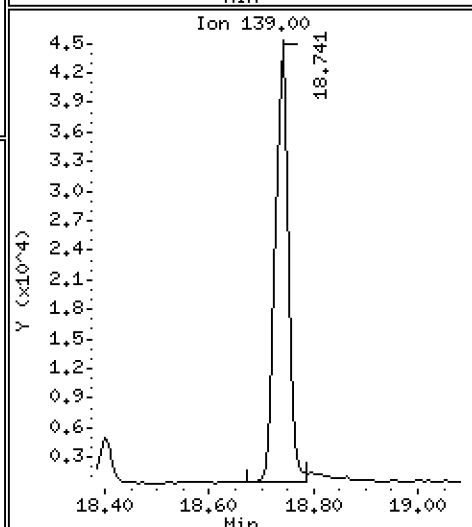
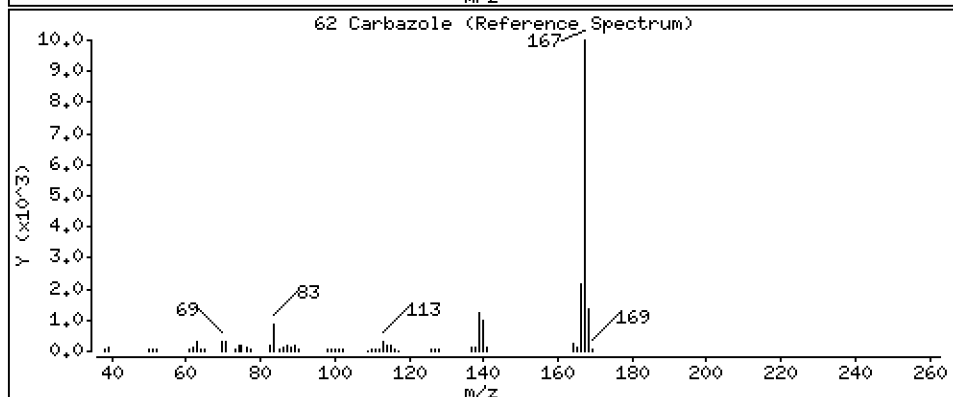
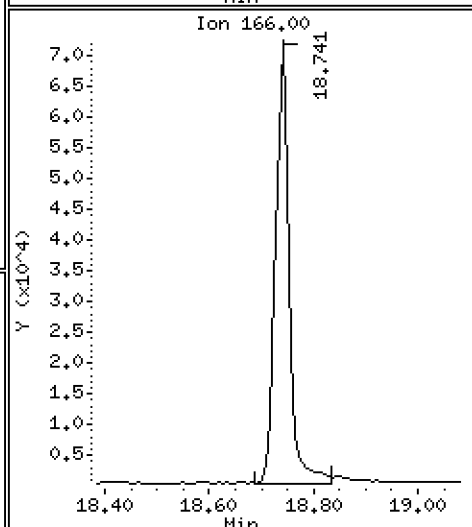
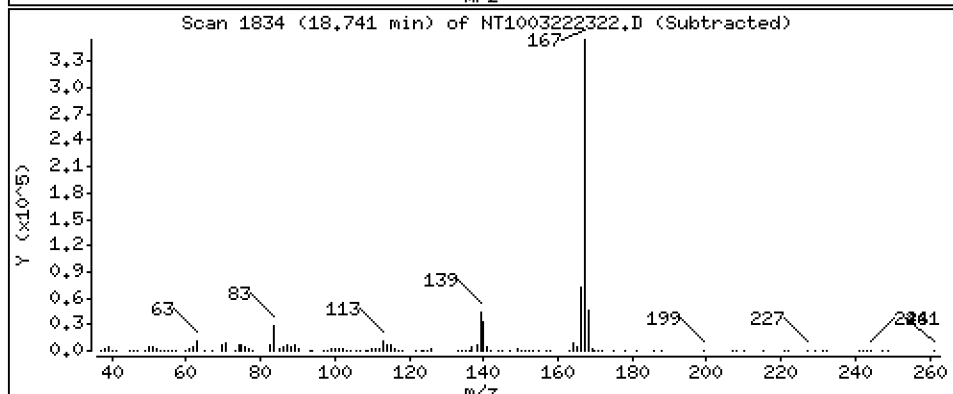
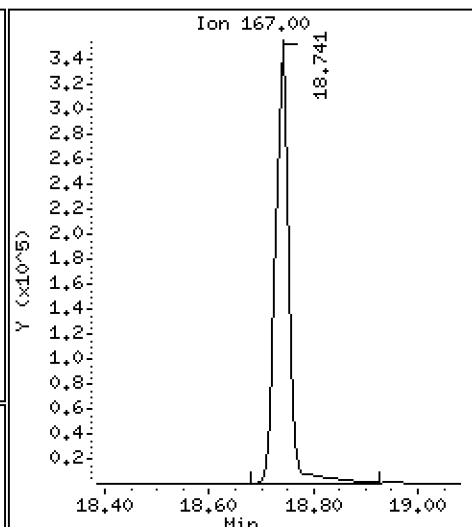
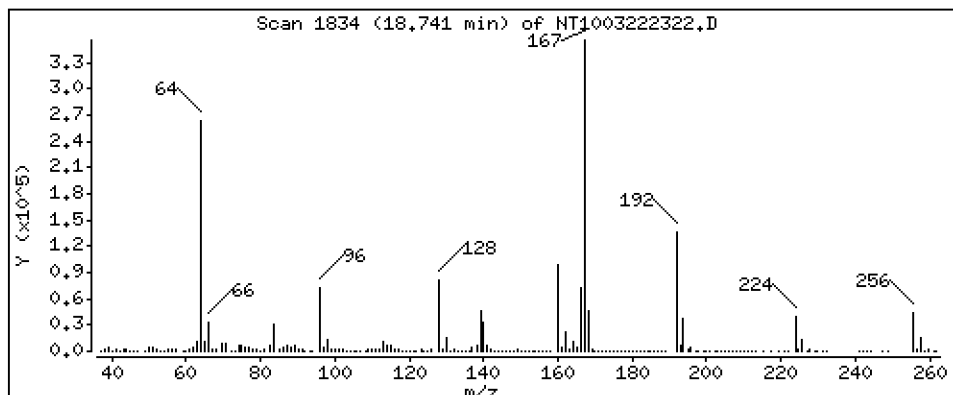
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,722 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

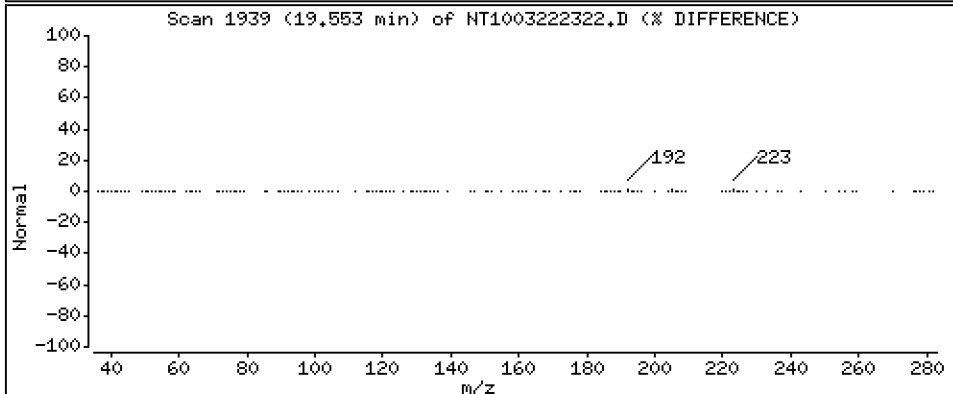
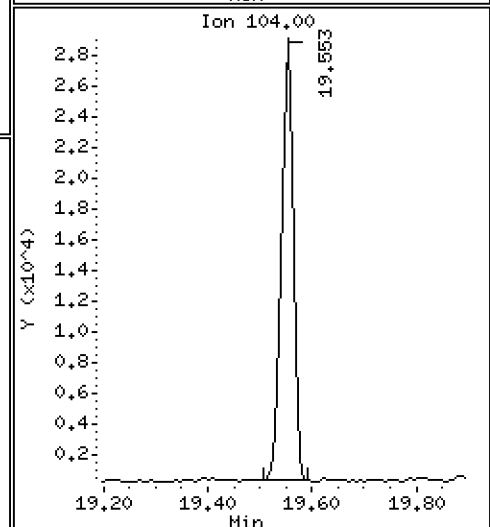
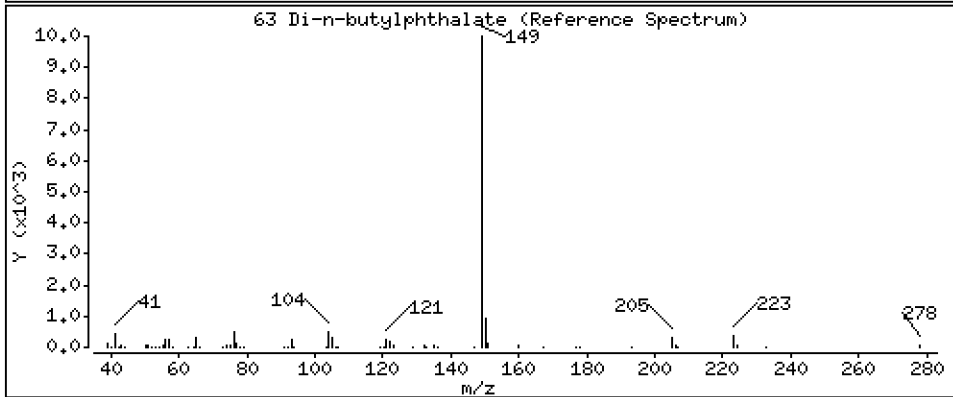
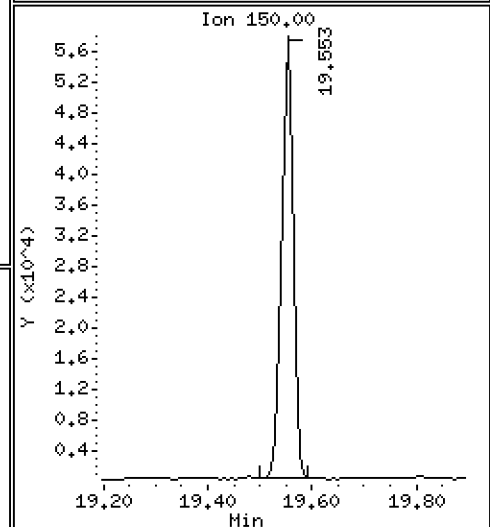
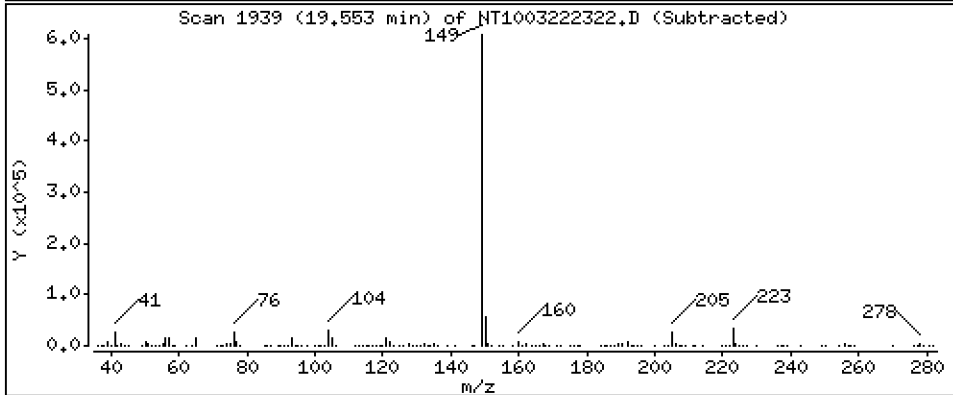
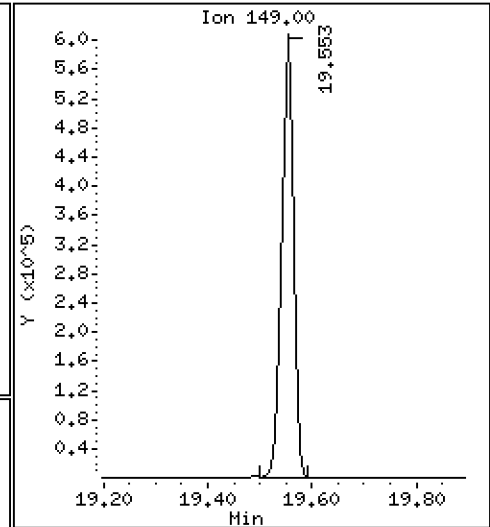
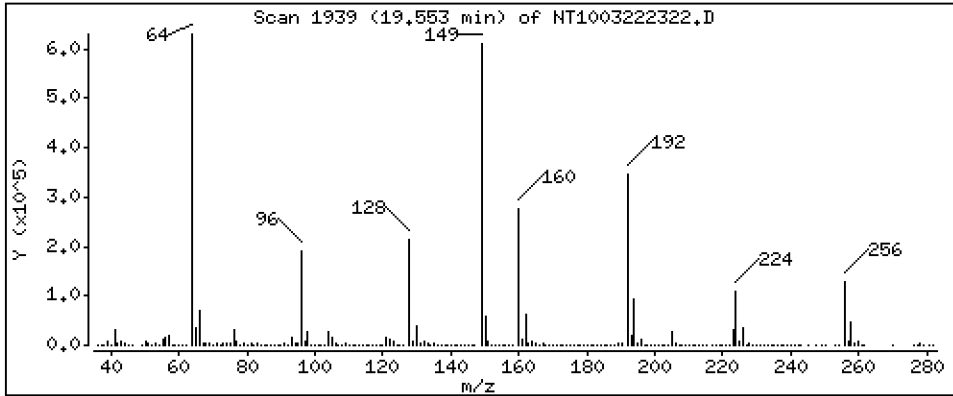
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 5,300 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

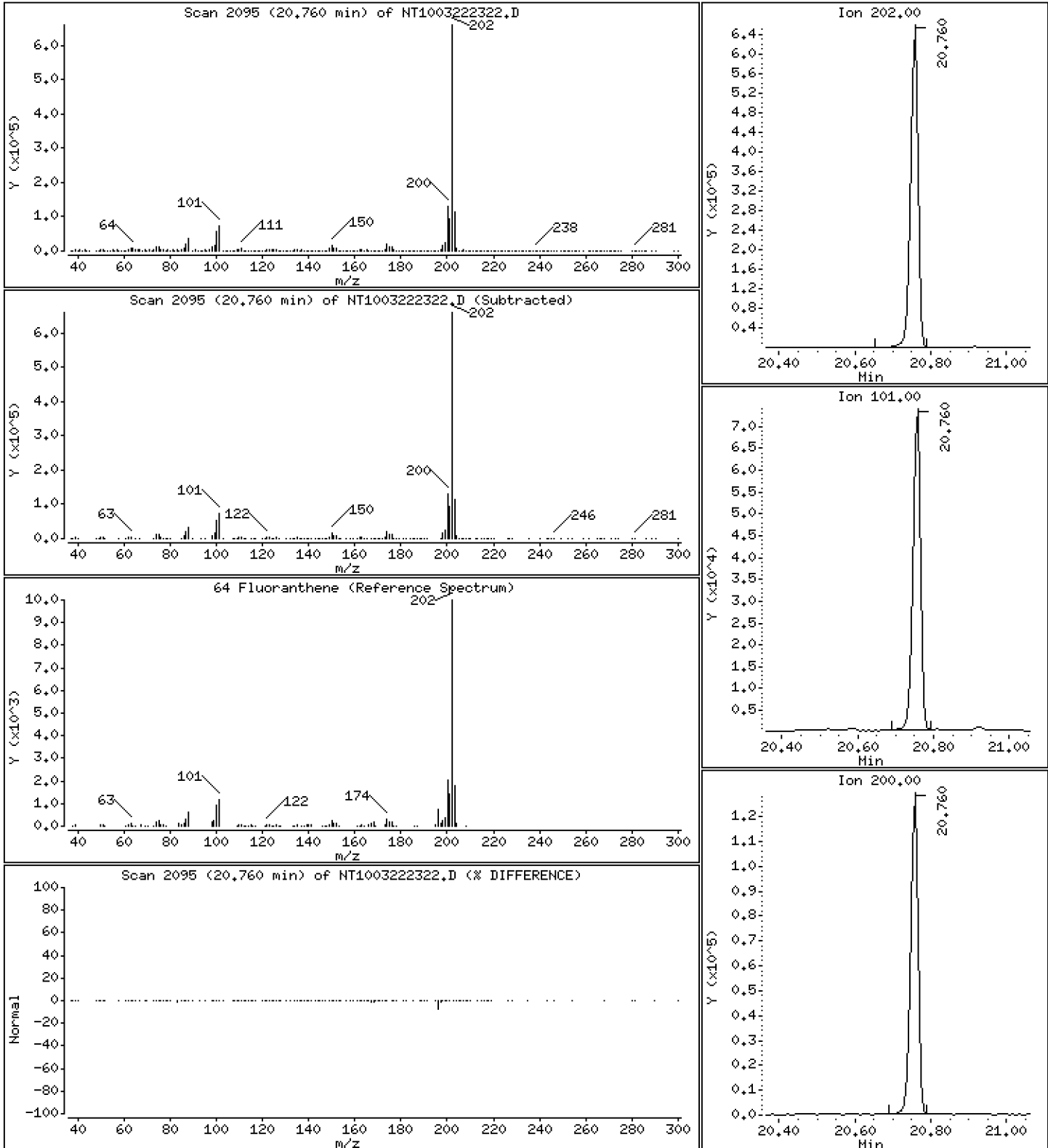
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,577 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

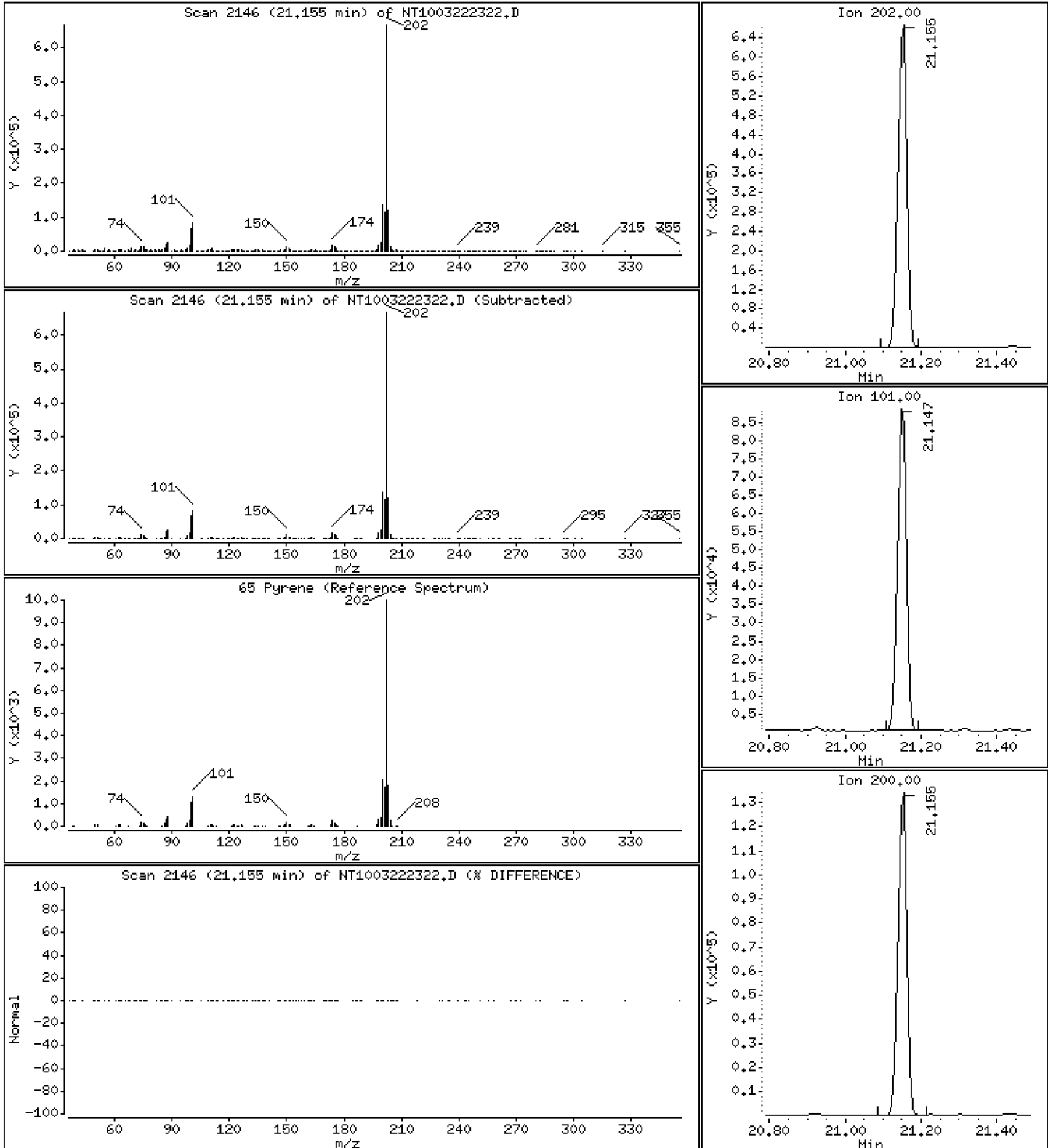
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,843 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

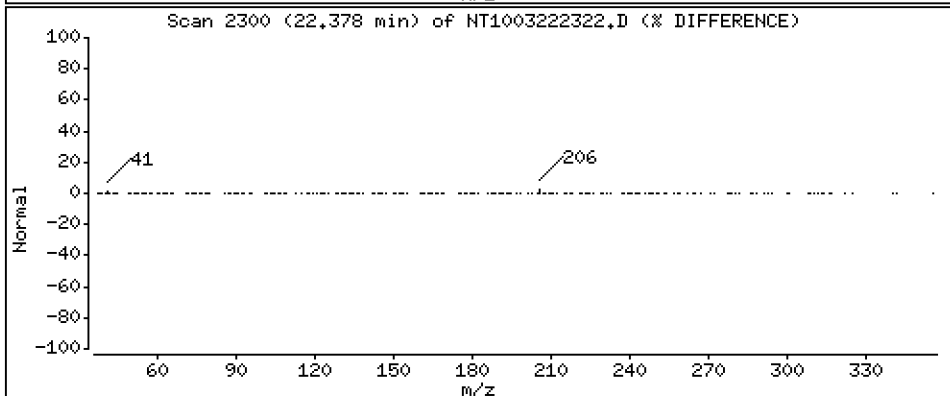
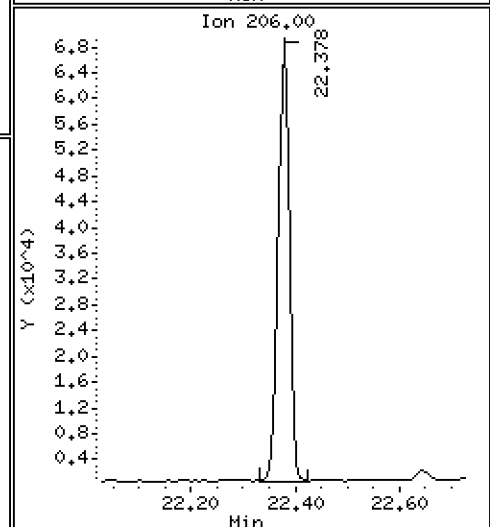
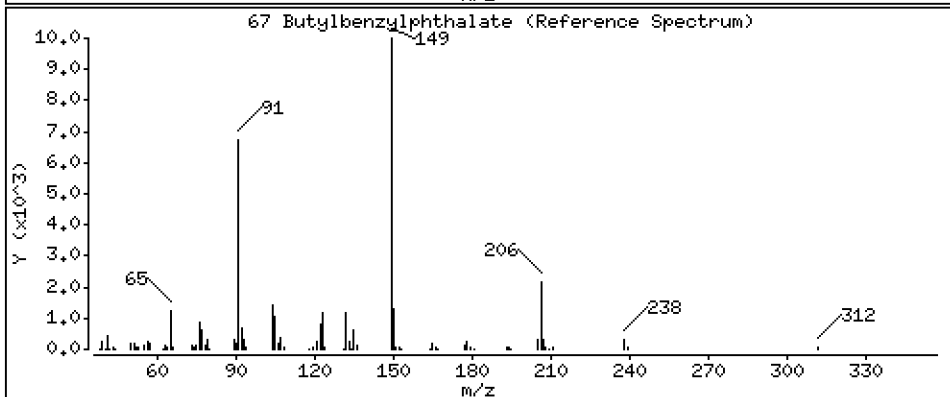
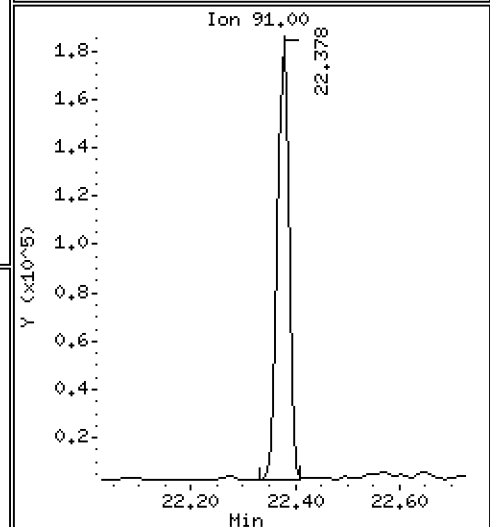
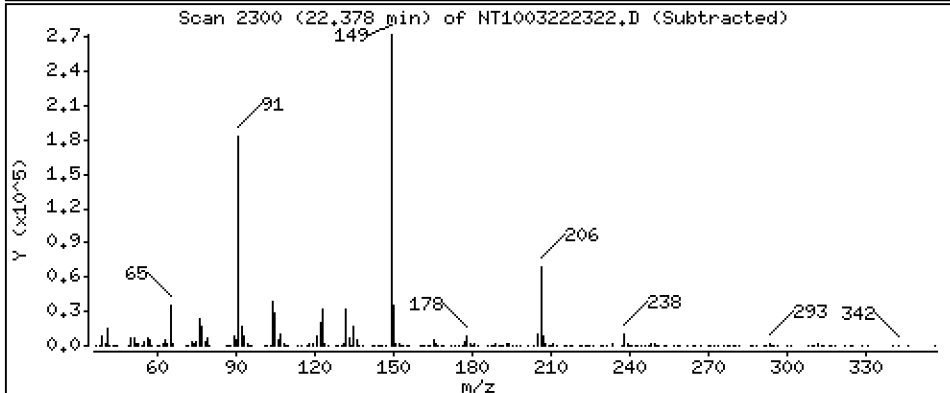
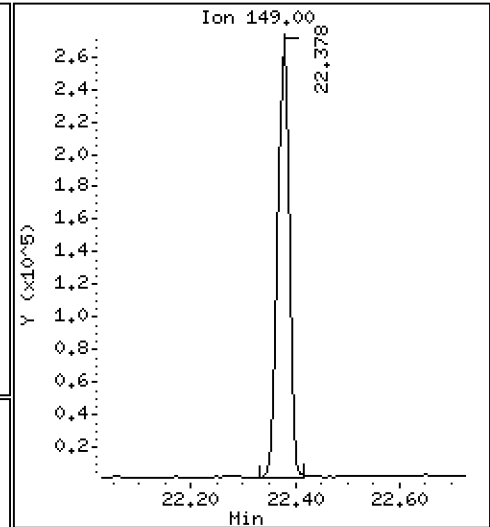
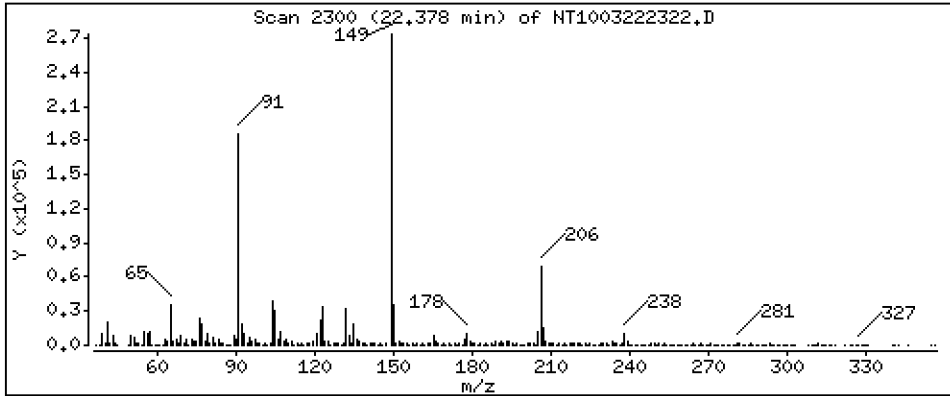
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,070 ug/mL





Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

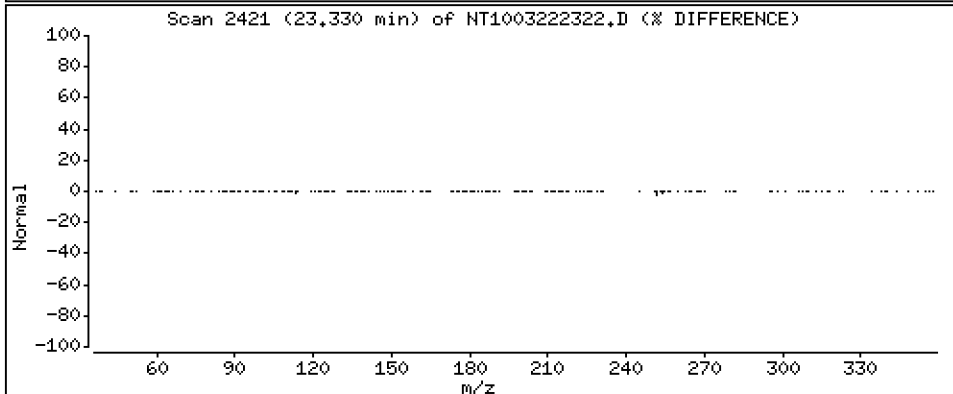
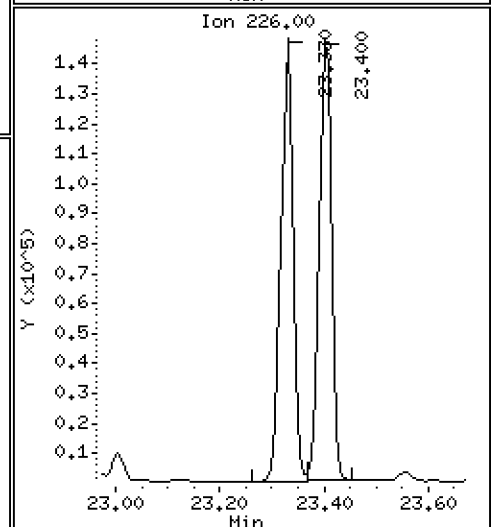
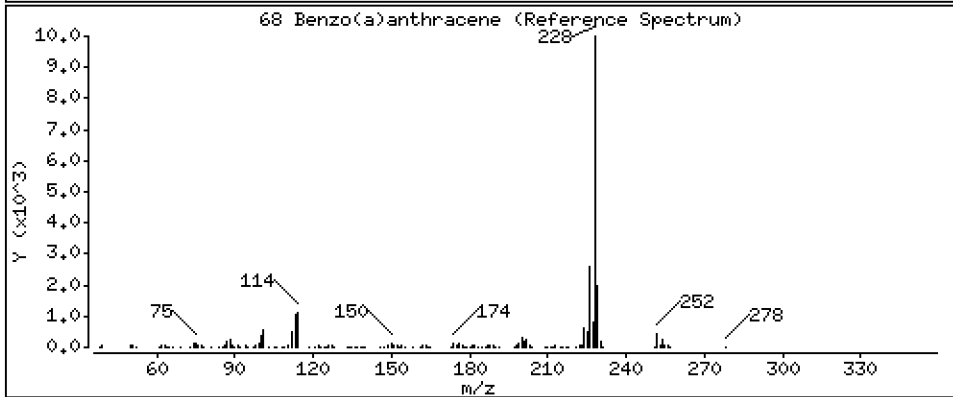
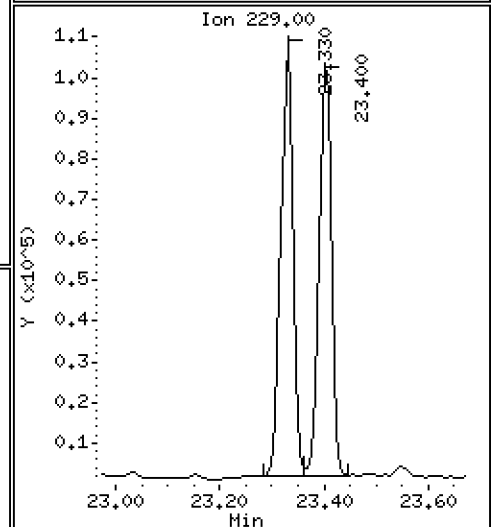
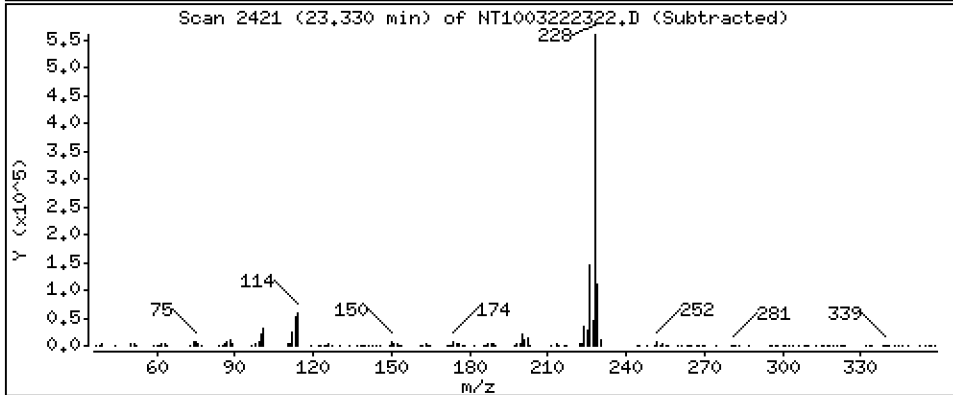
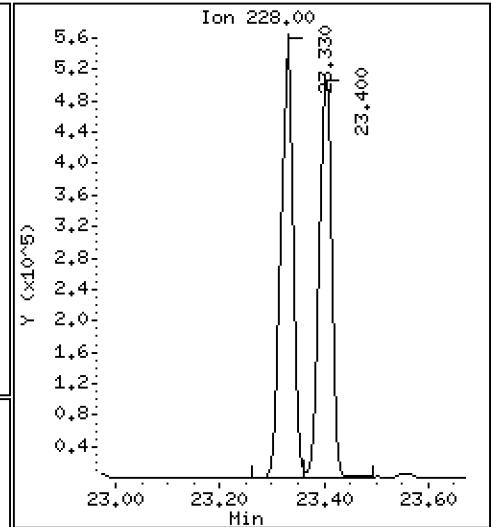
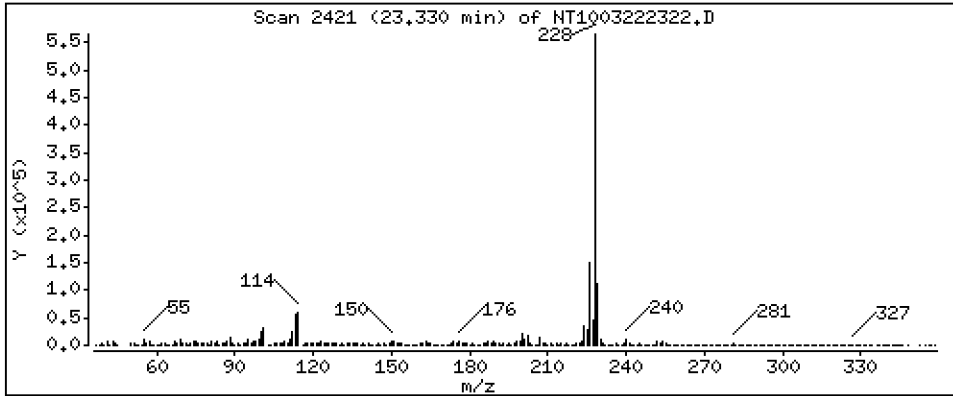
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,844 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

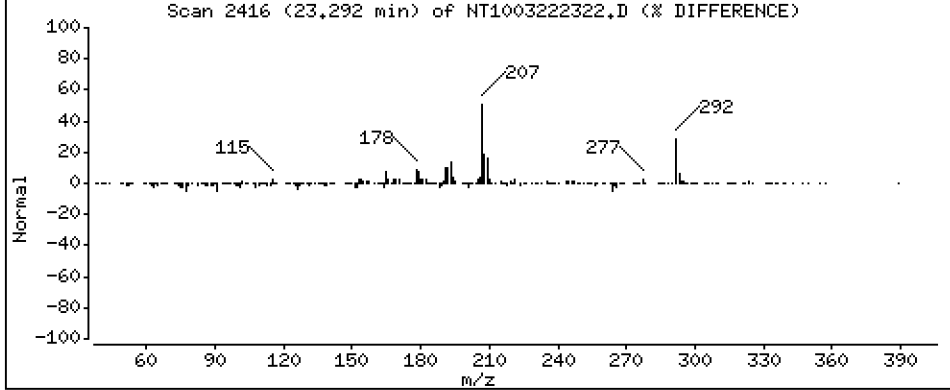
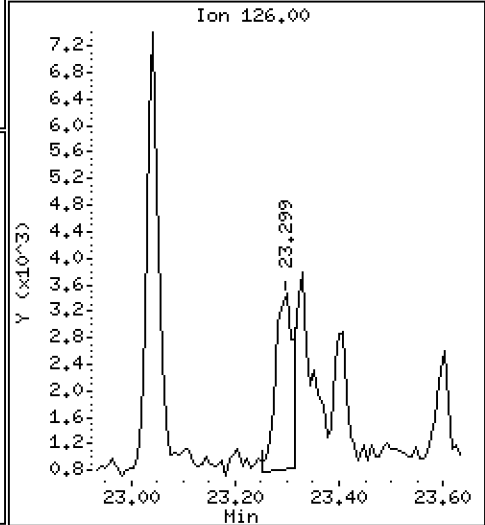
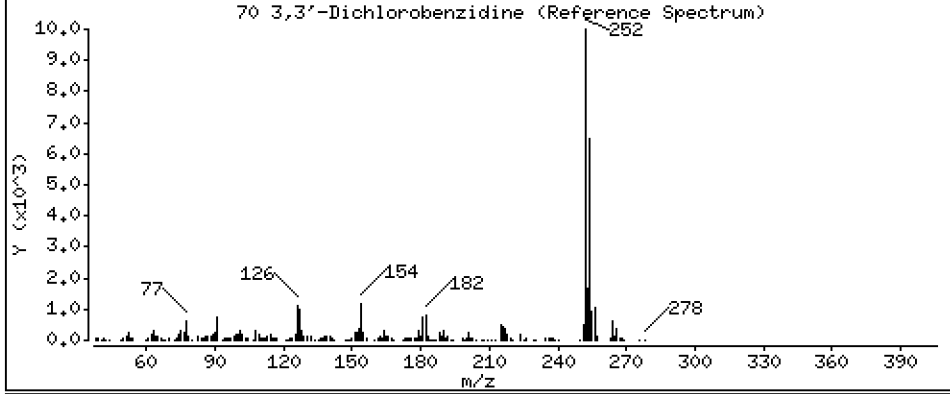
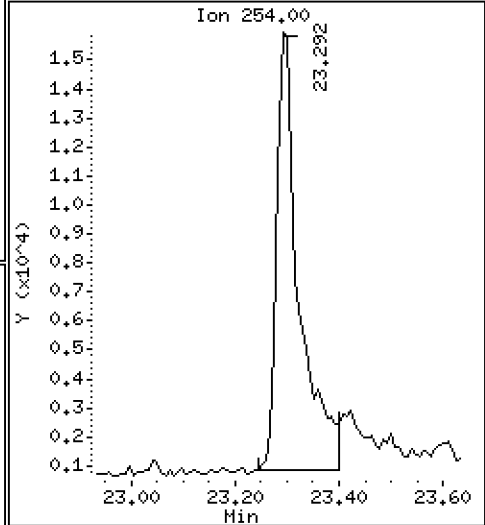
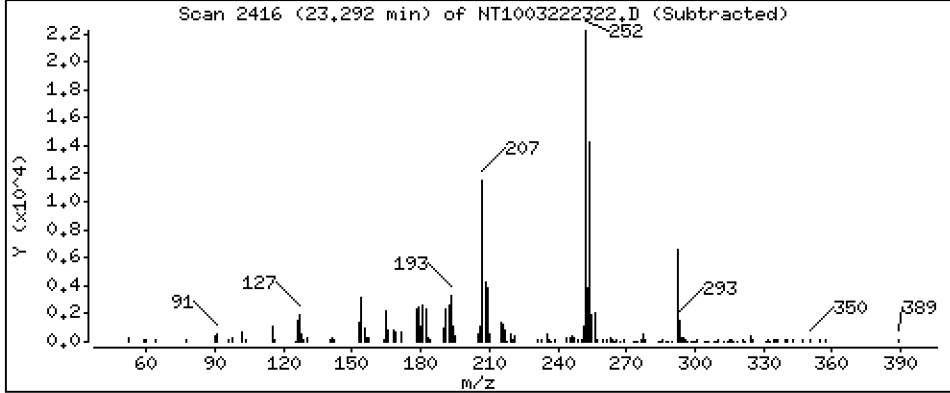
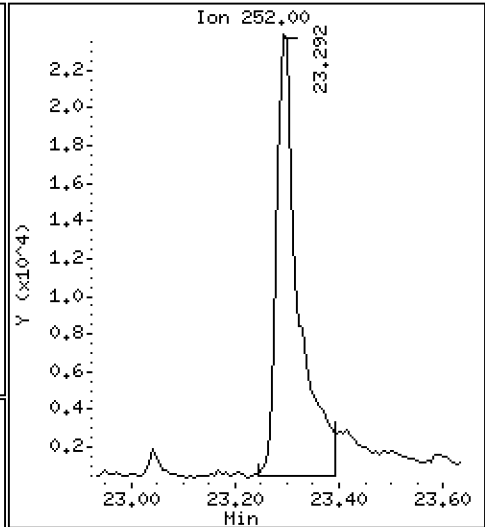
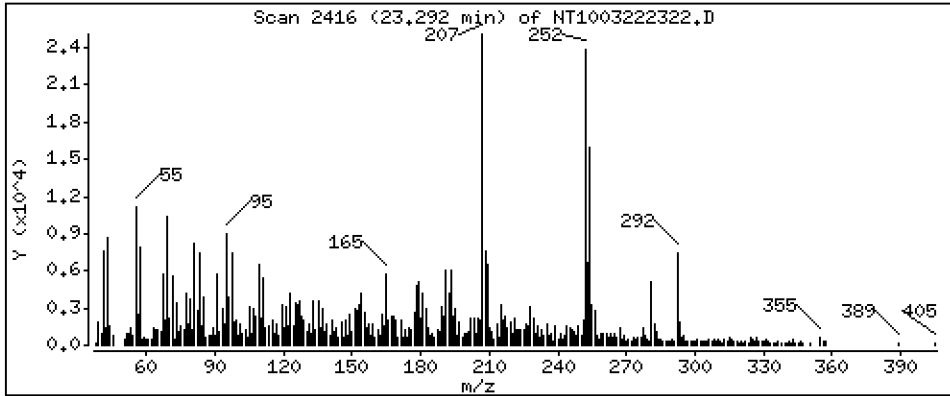
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

70 3,3'-Dichlorobenzidine

Concentration: 1,159 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

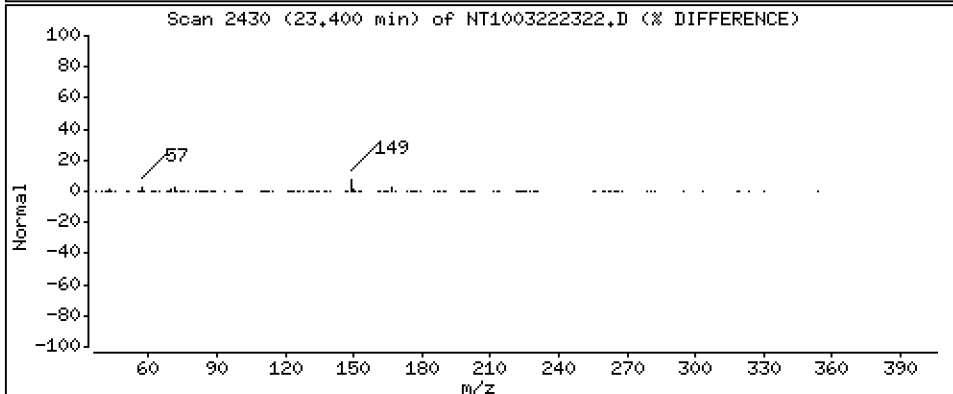
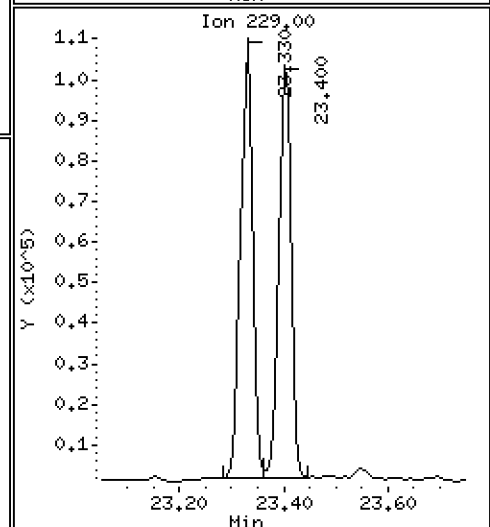
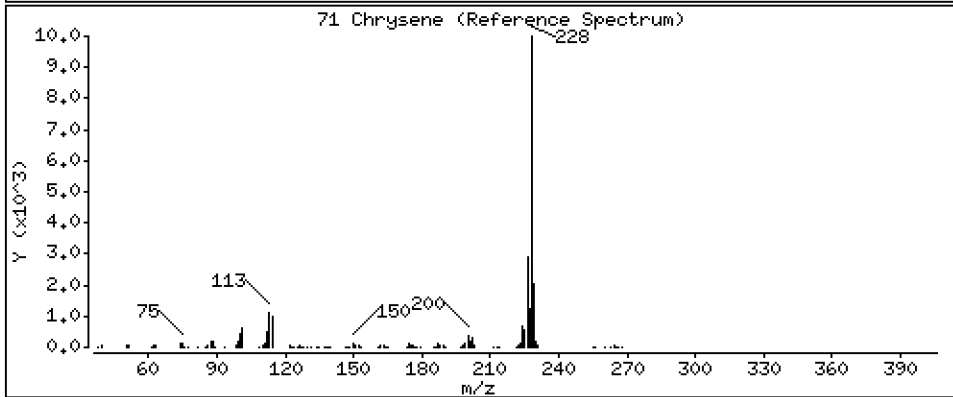
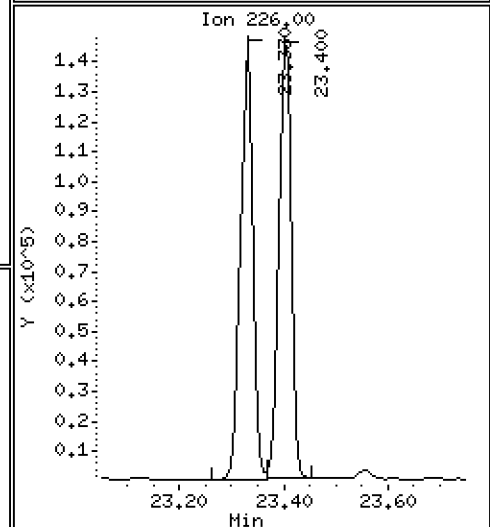
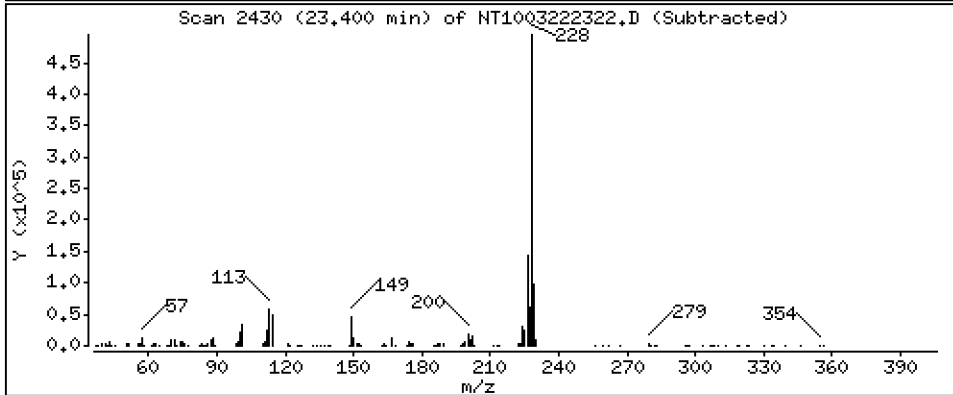
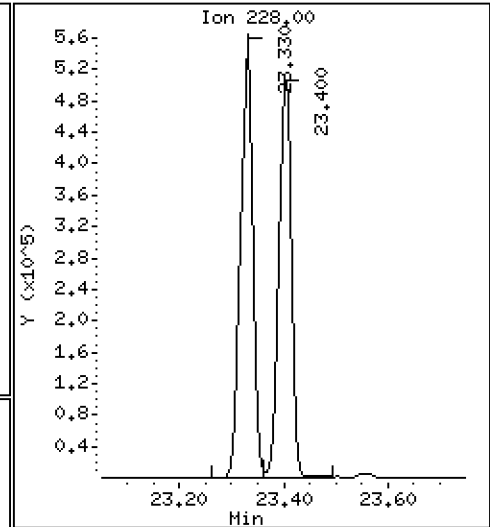
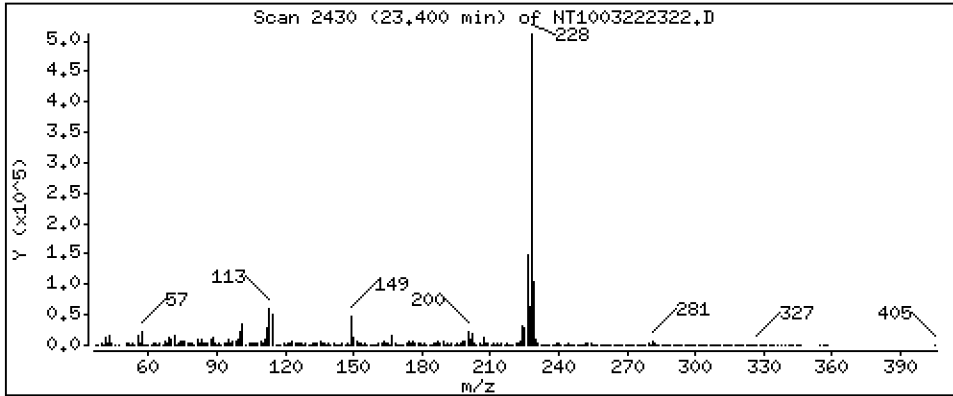
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,585 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

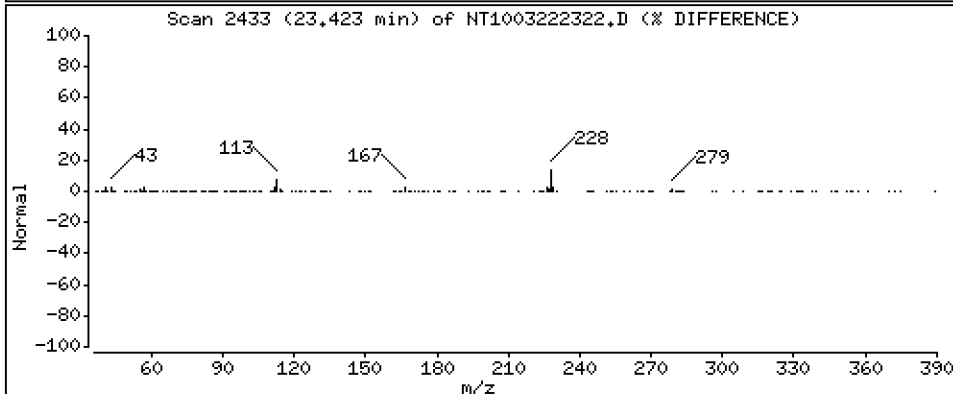
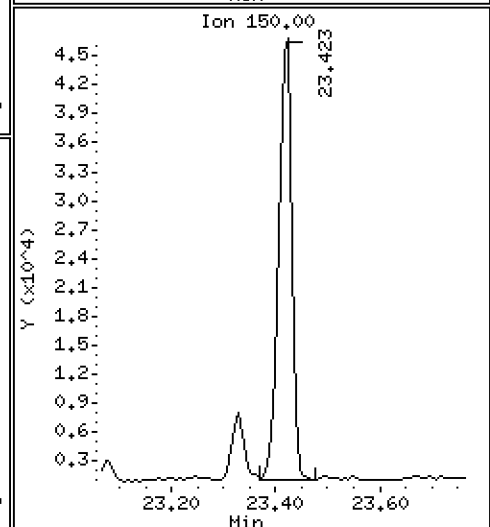
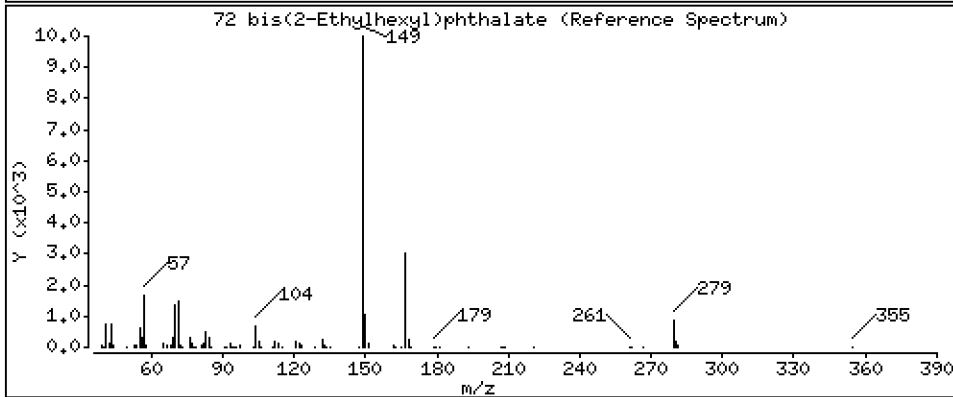
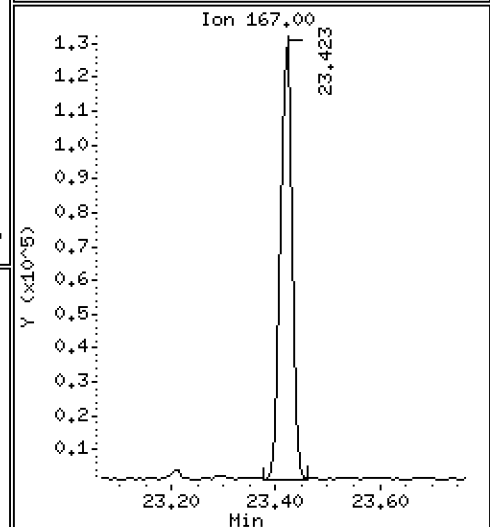
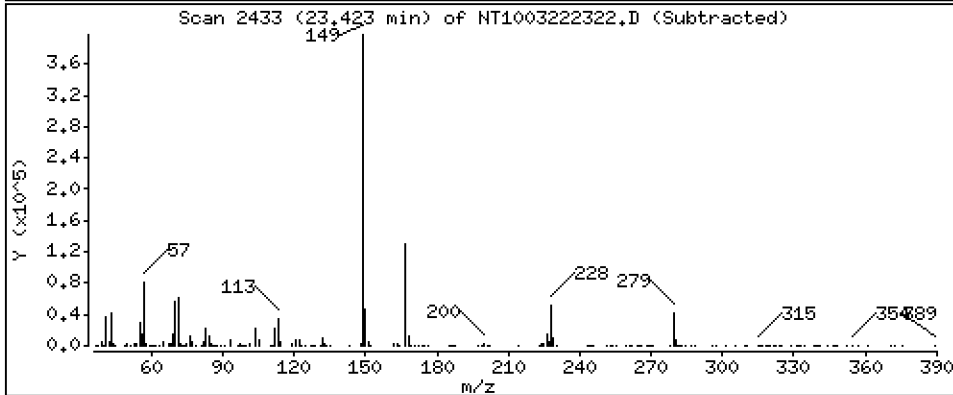
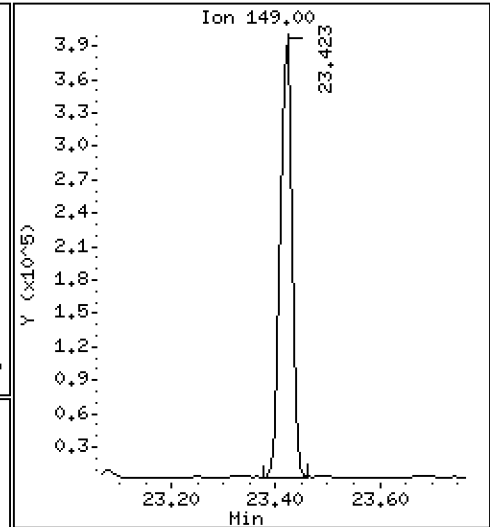
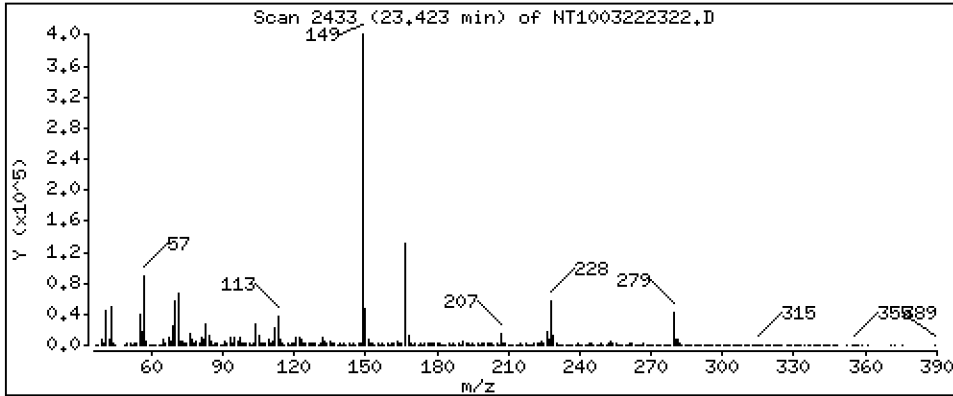
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,662 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

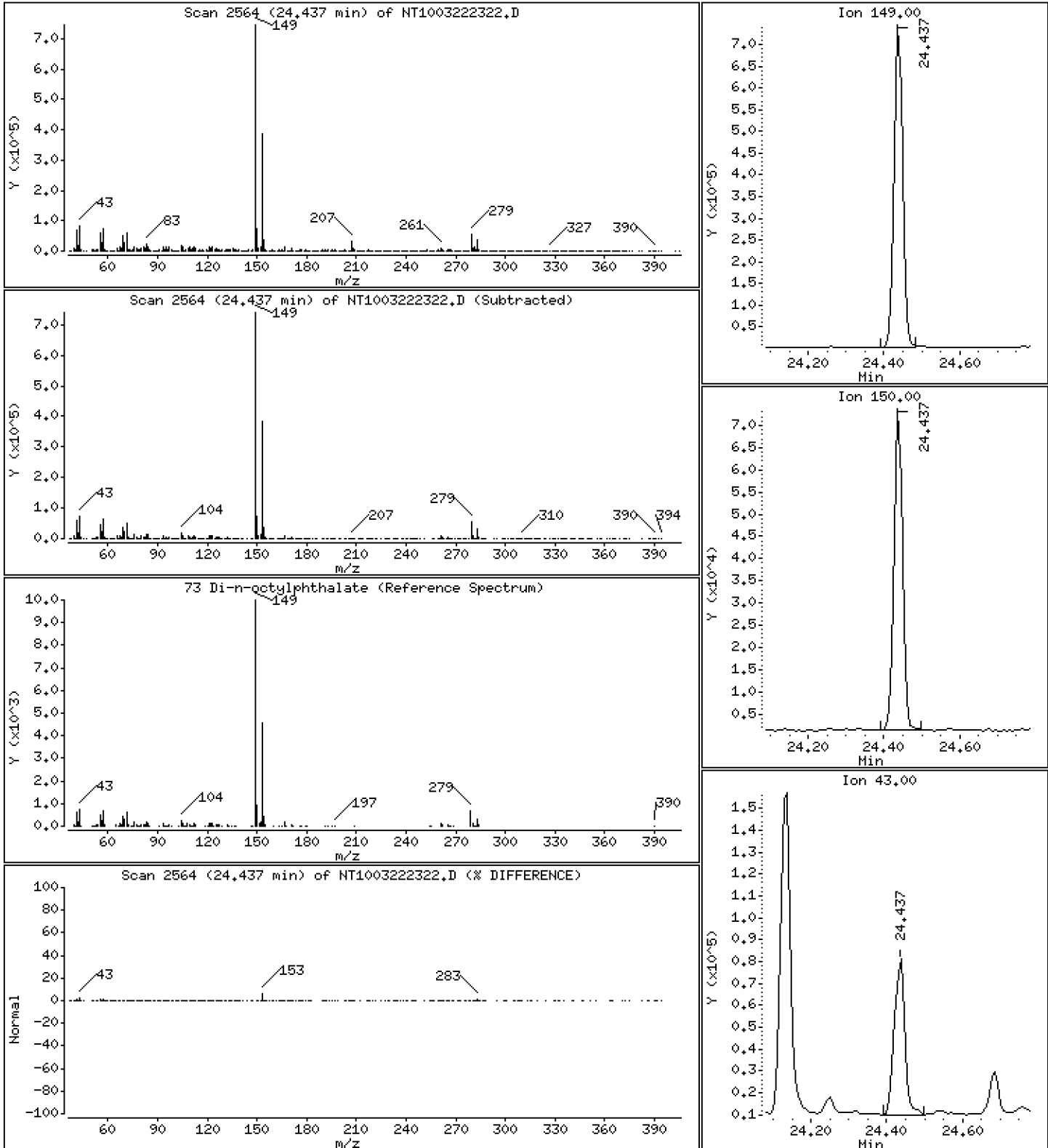
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,778 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

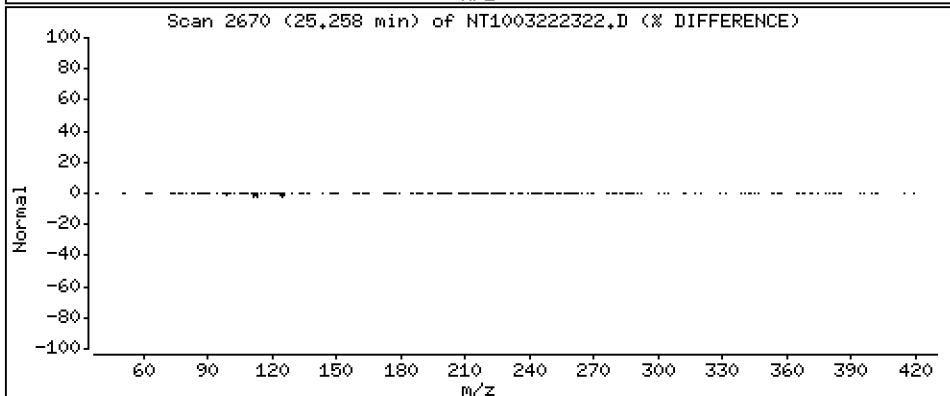
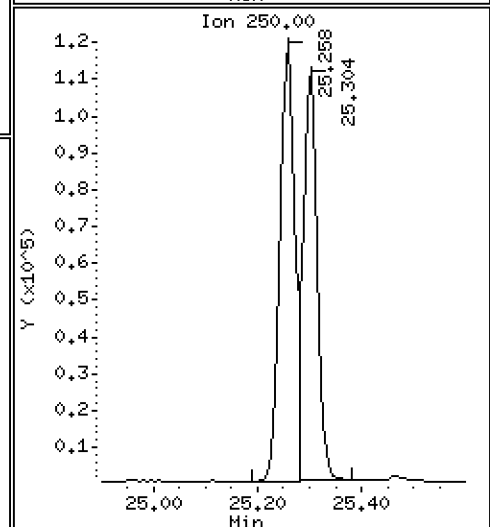
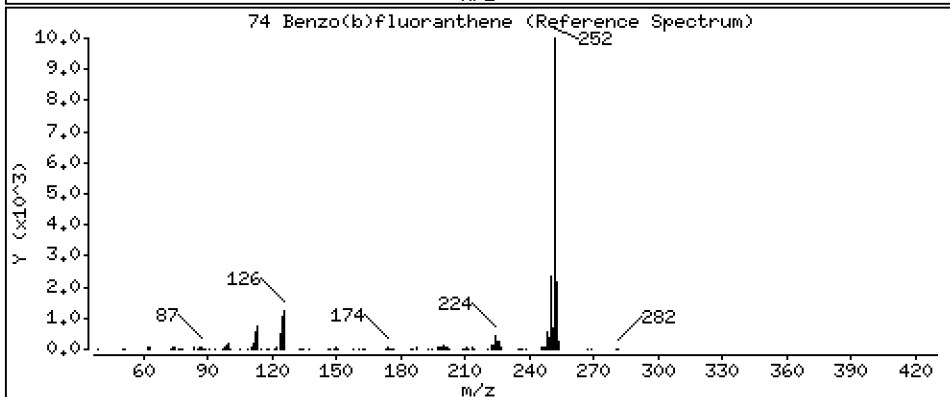
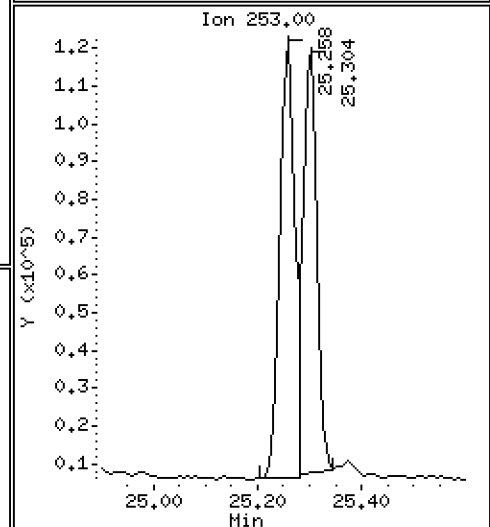
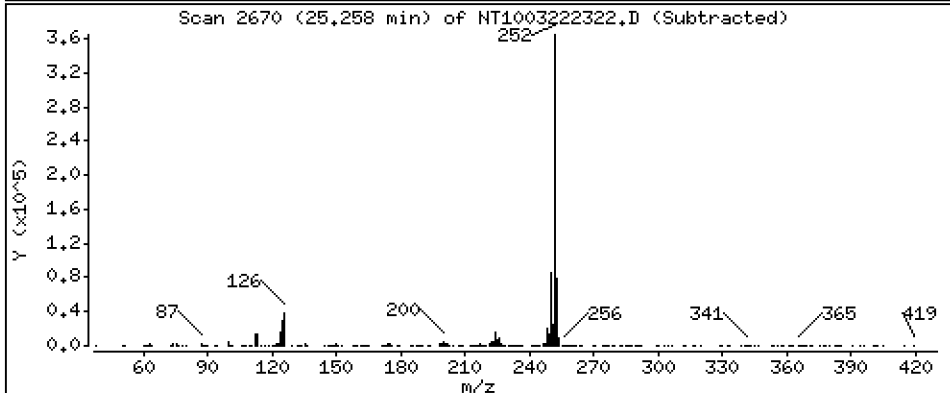
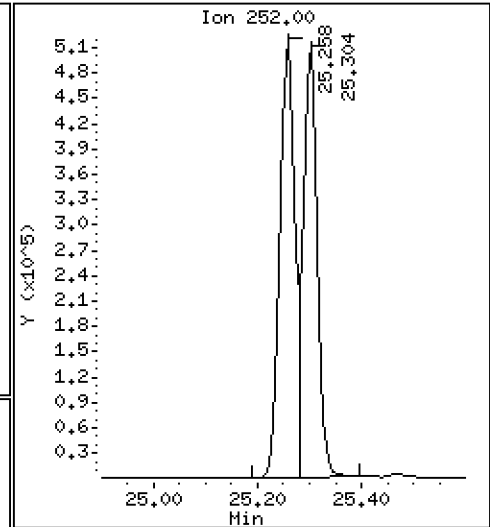
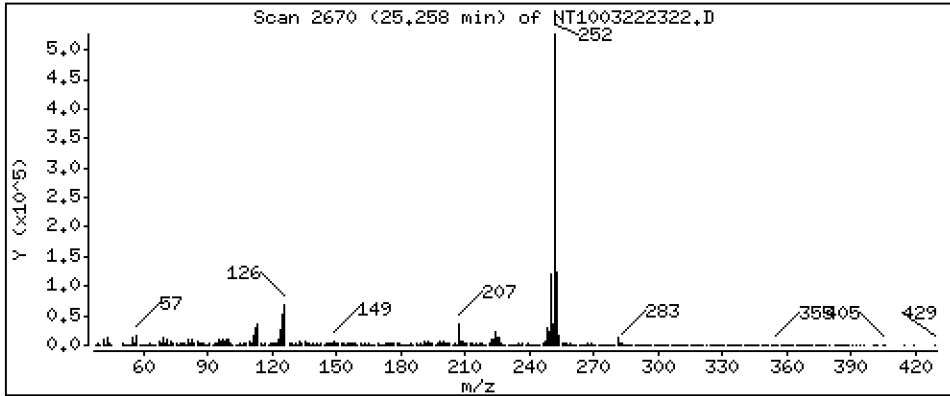
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 5,285 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

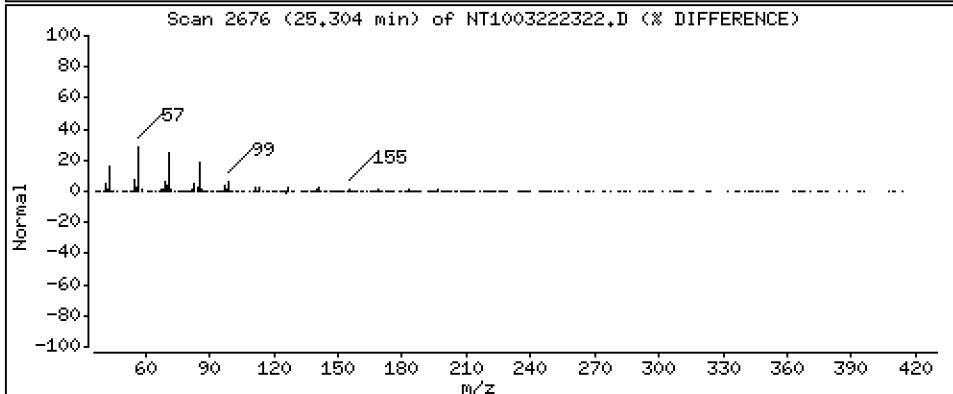
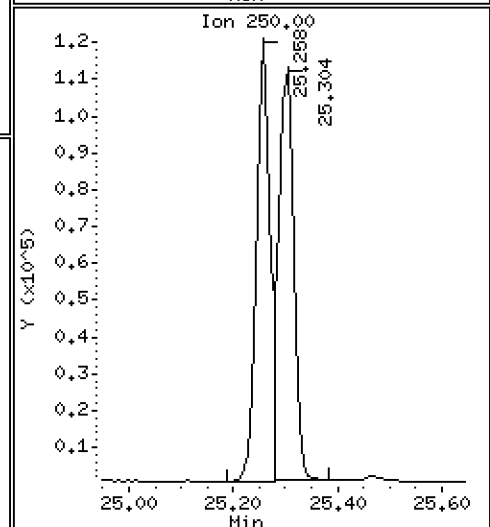
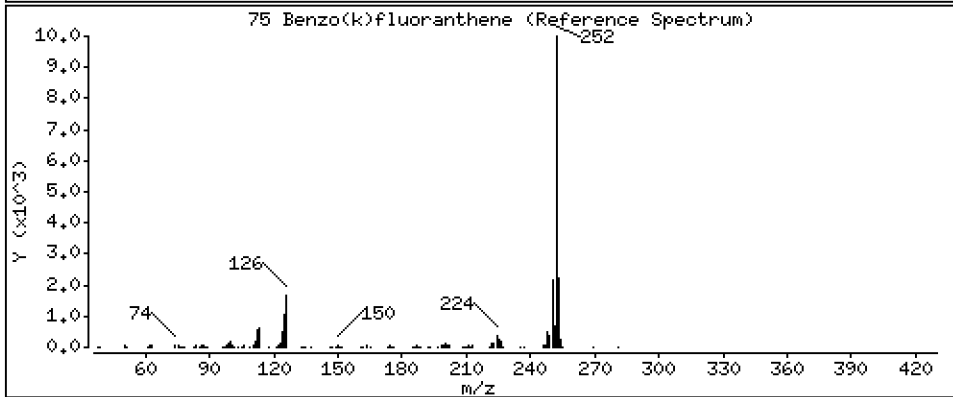
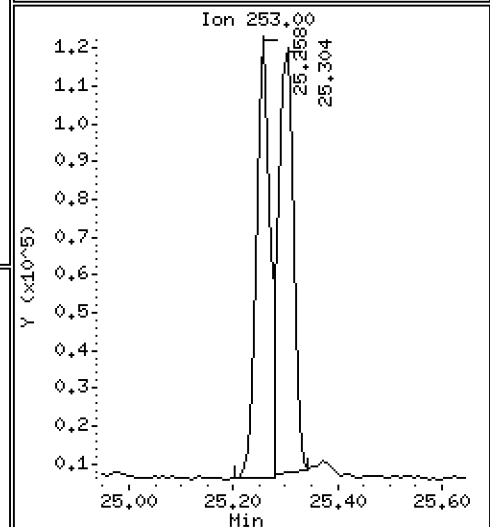
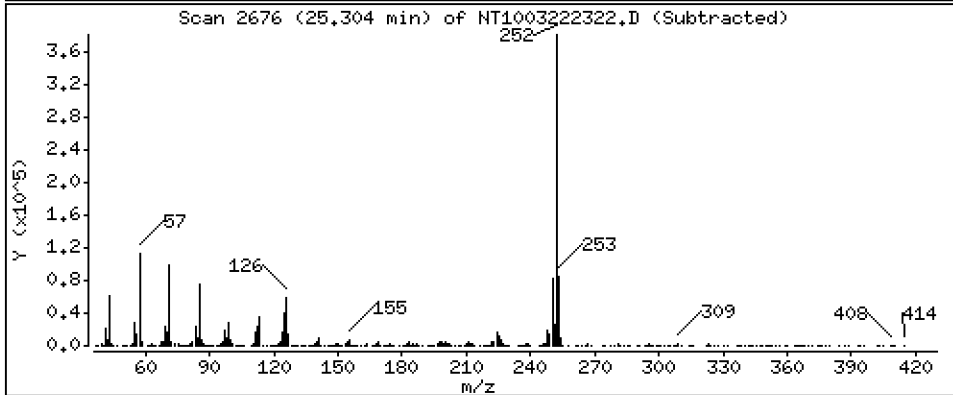
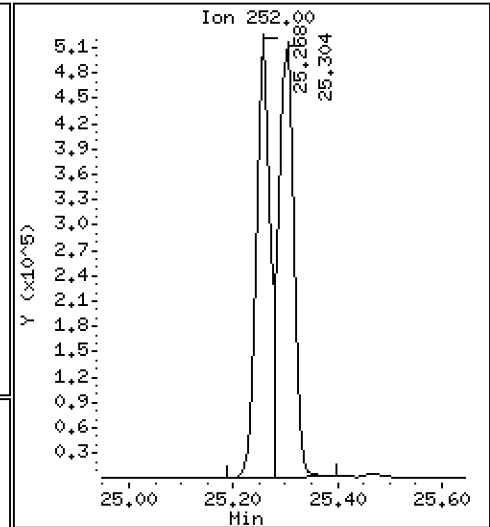
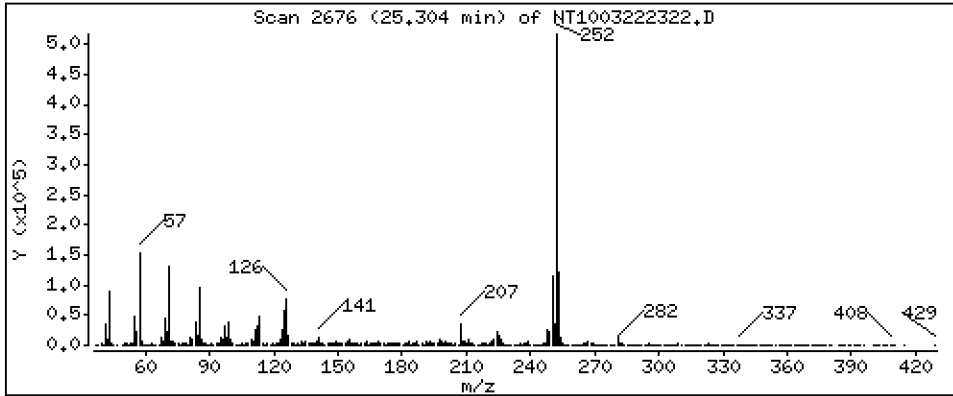
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 5,111 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

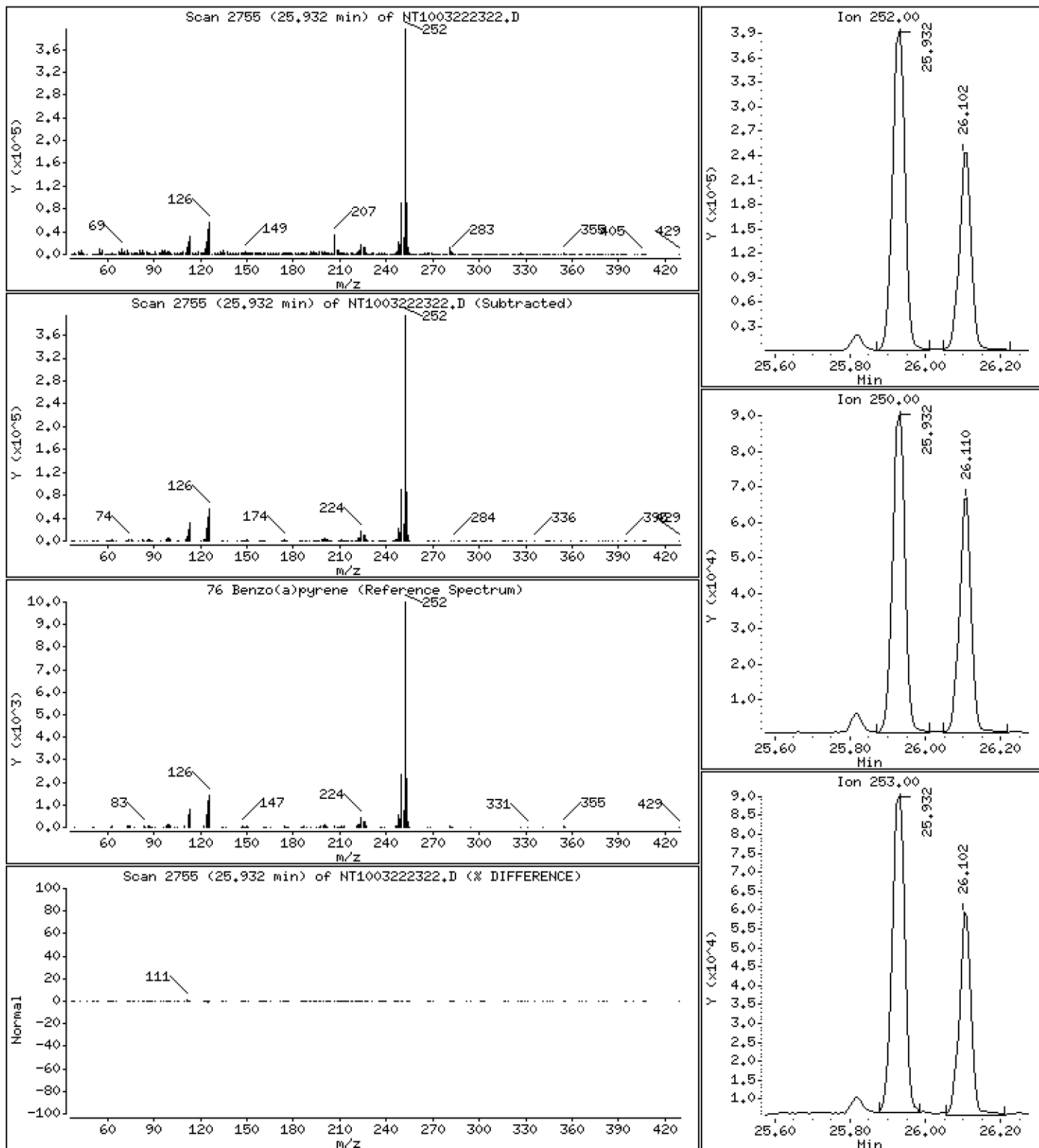
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,912 ug/mL





Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

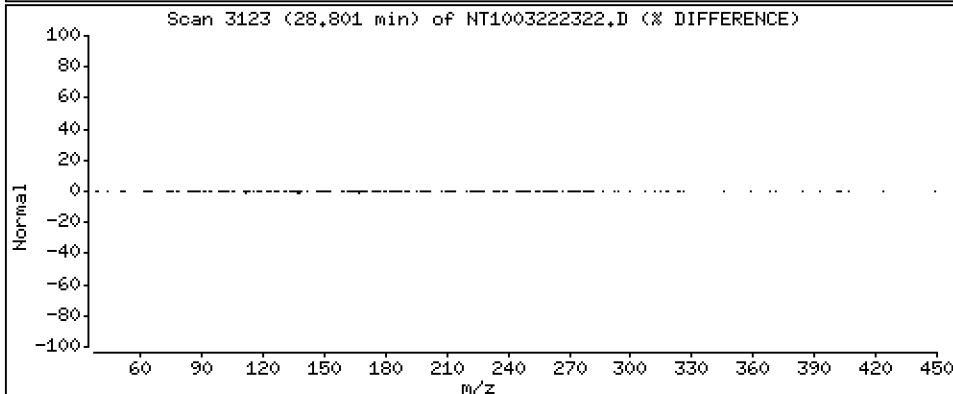
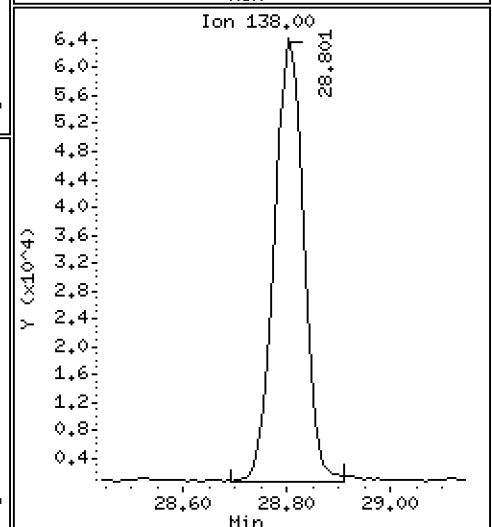
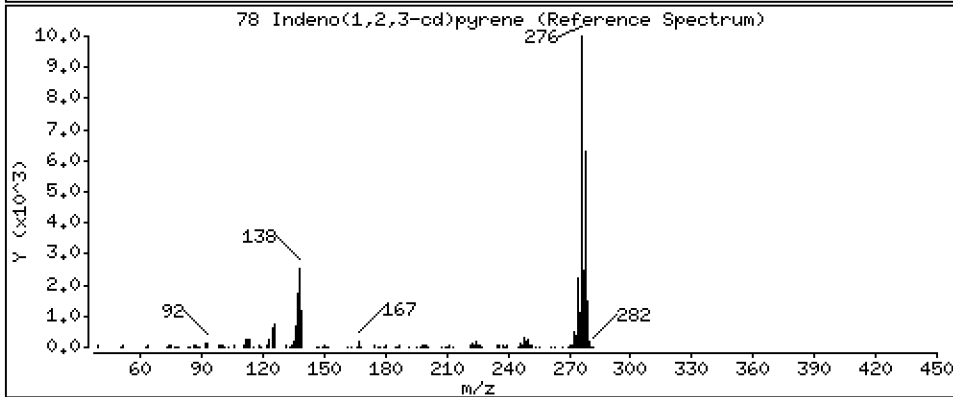
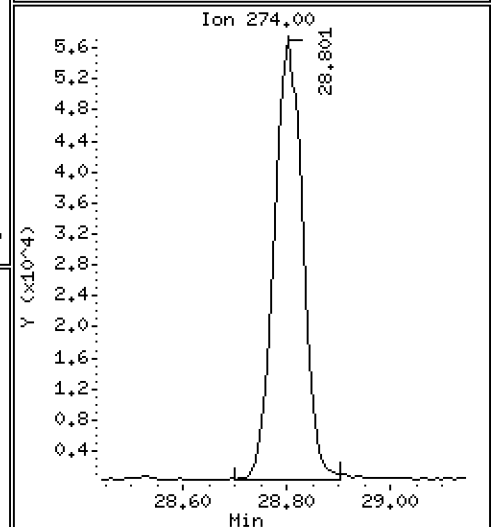
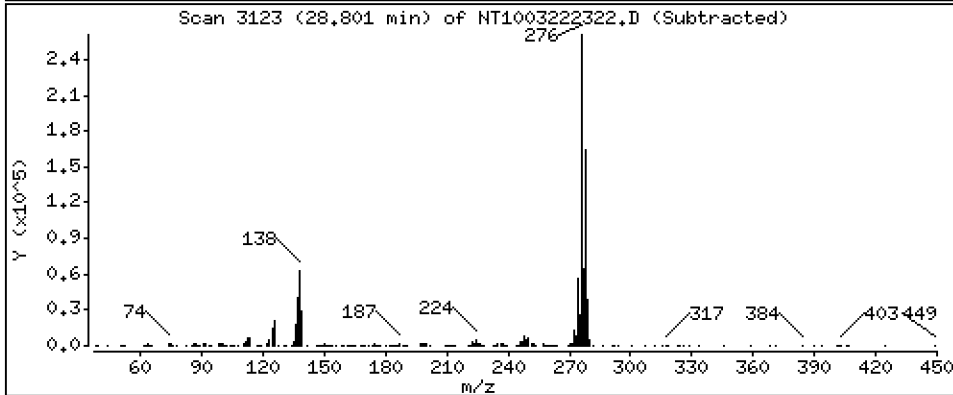
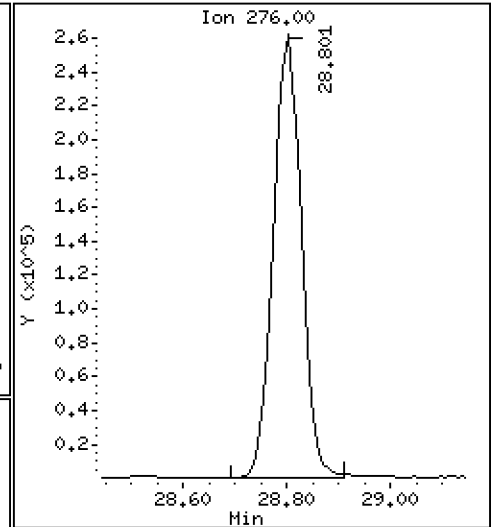
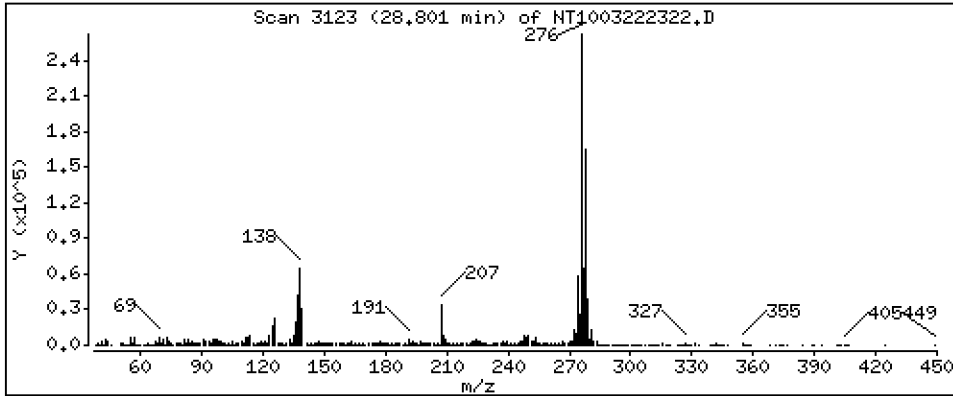
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 4,380 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

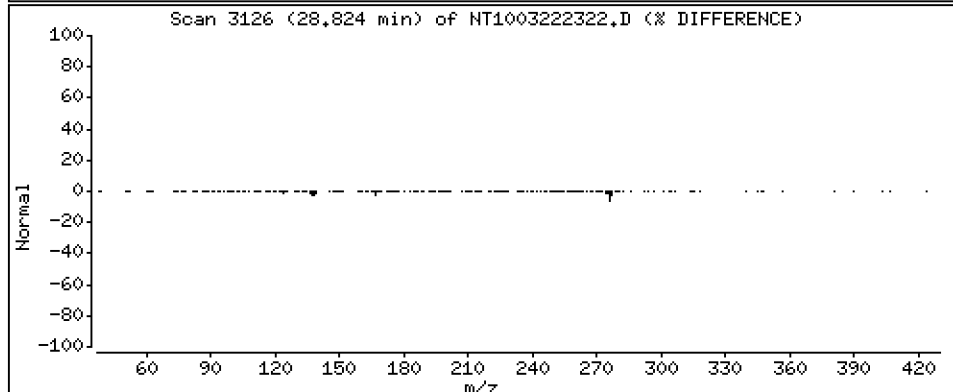
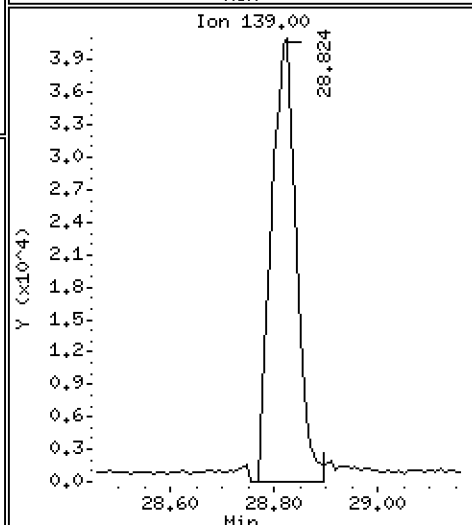
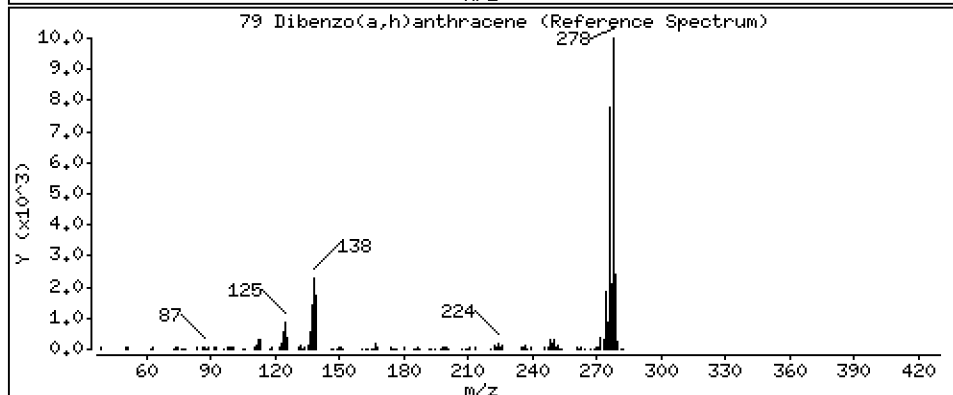
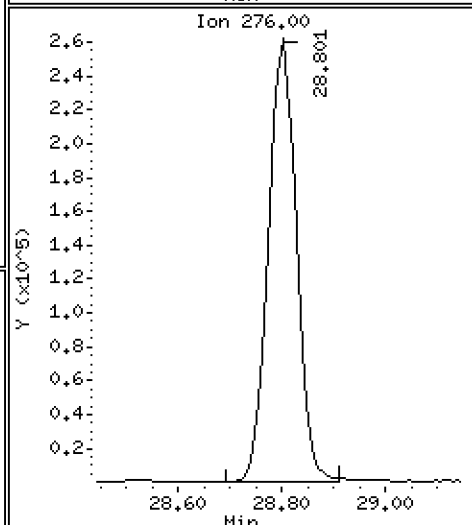
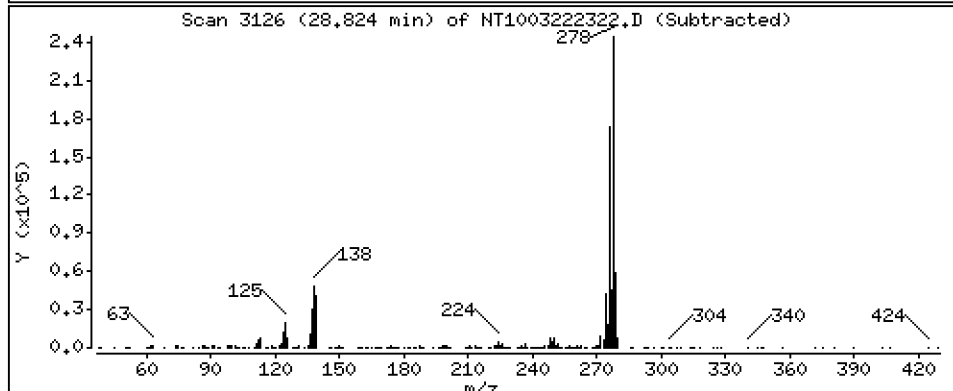
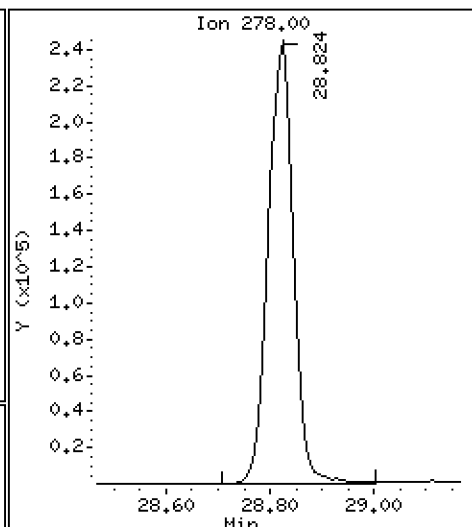
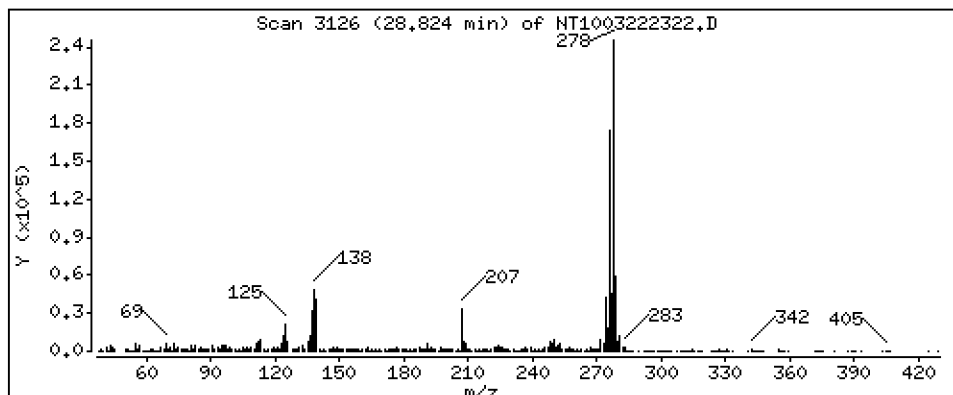
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,413 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

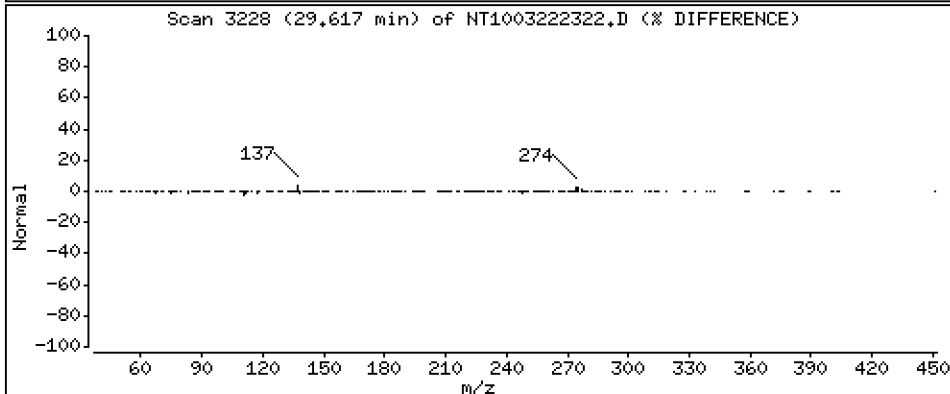
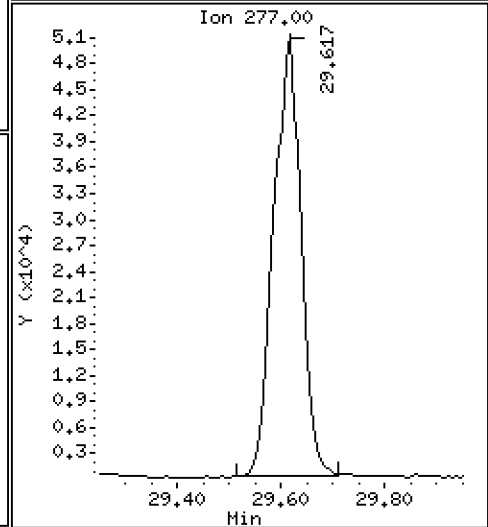
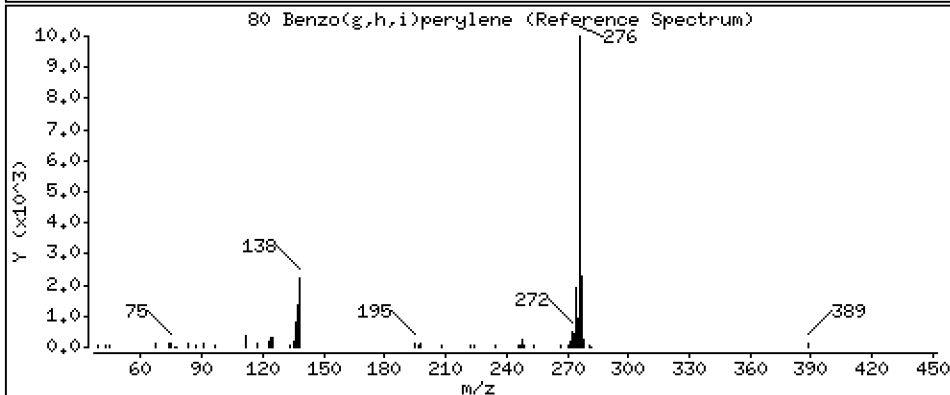
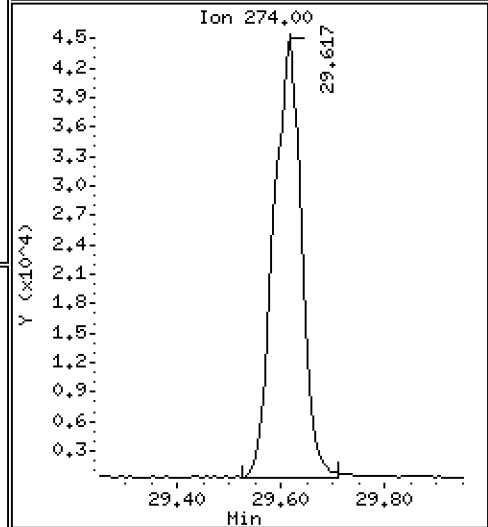
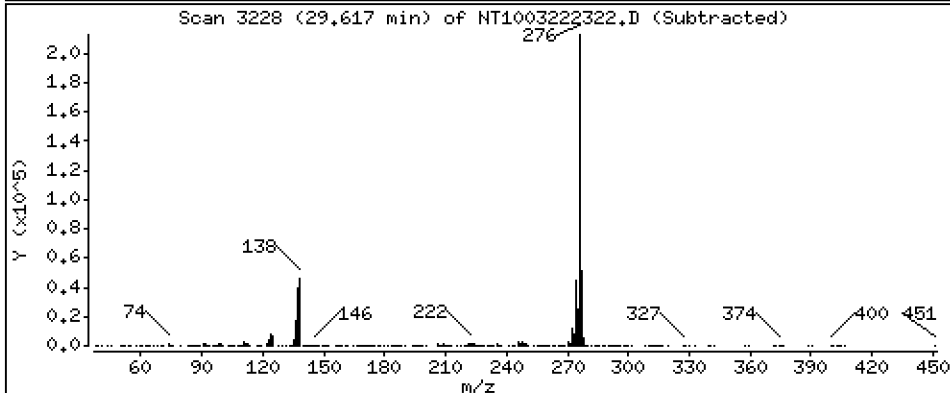
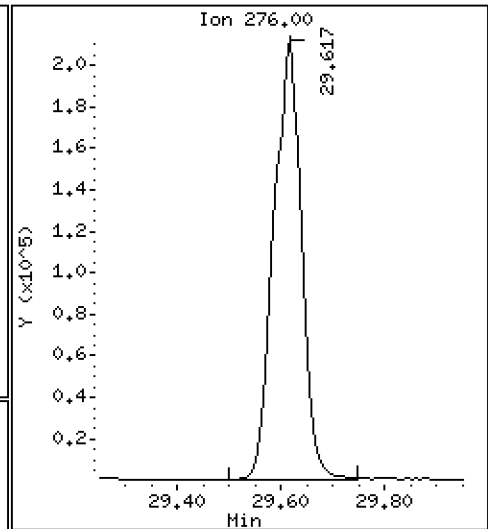
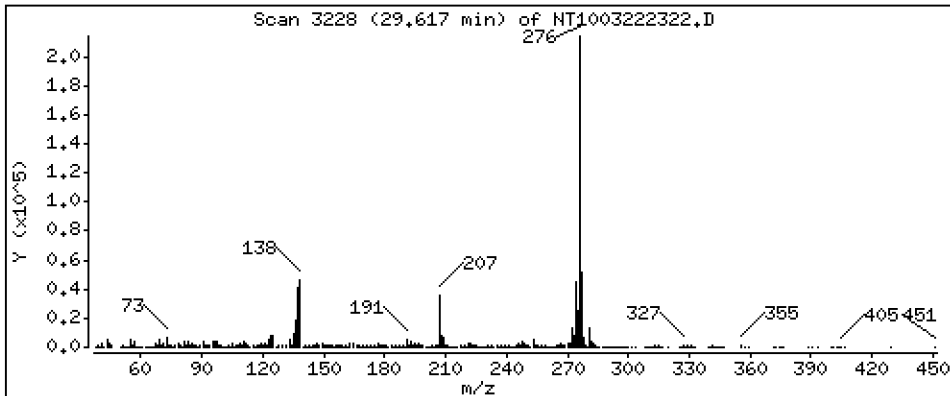
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,109 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

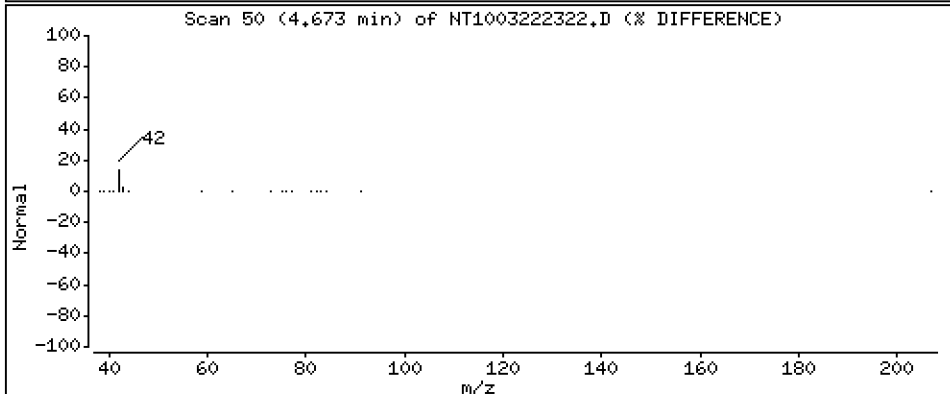
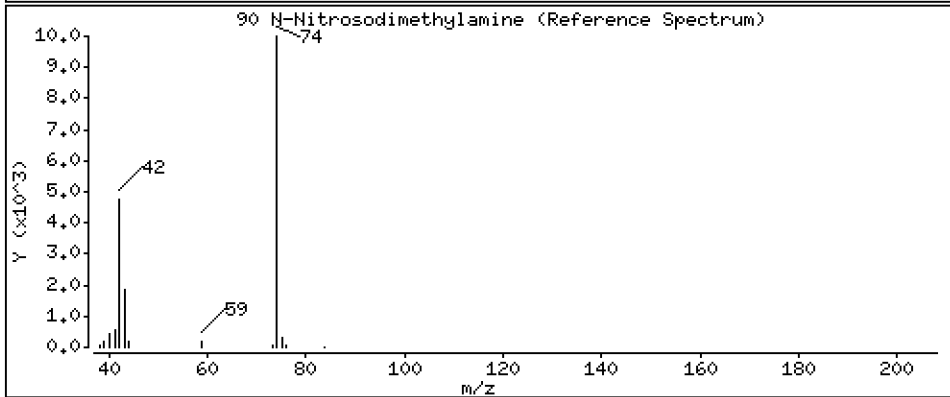
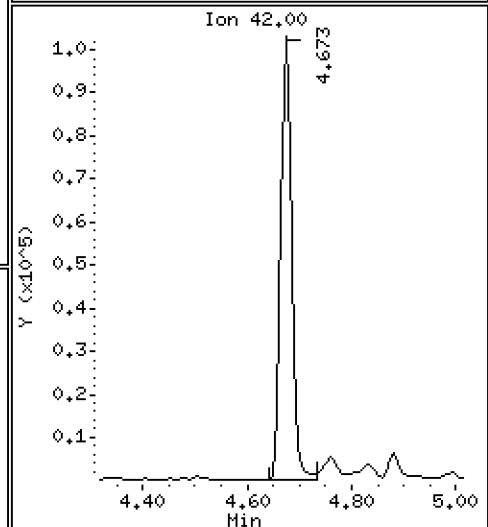
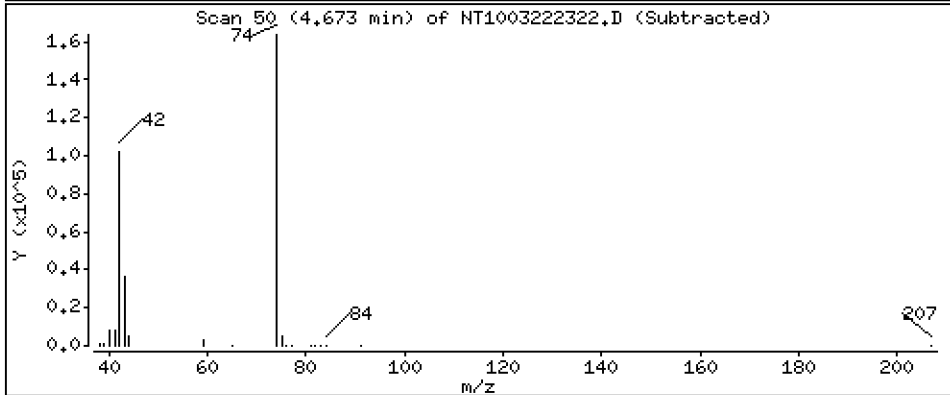
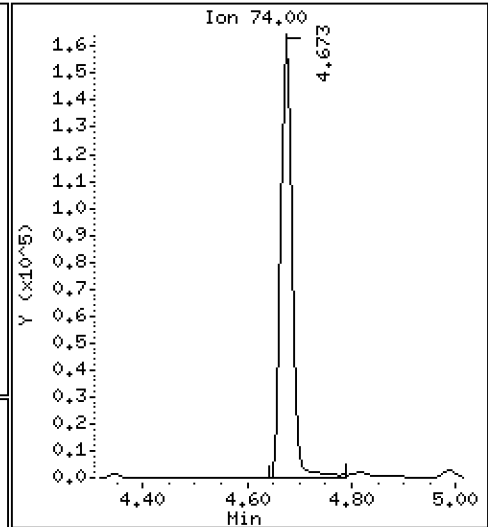
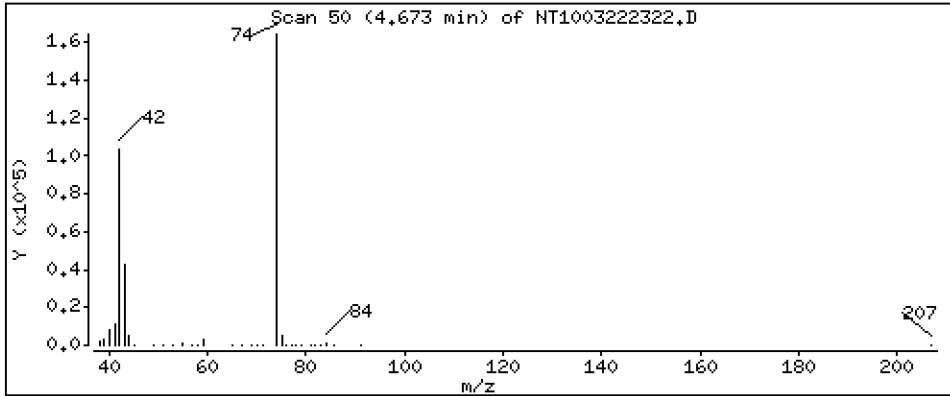
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 8,513 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

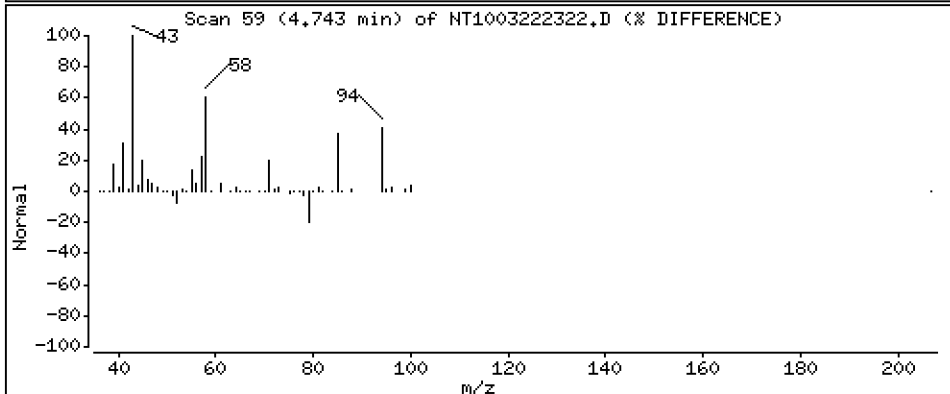
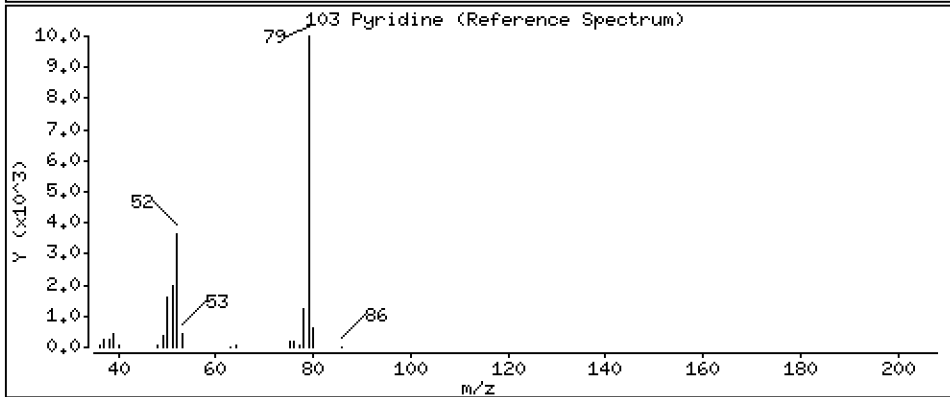
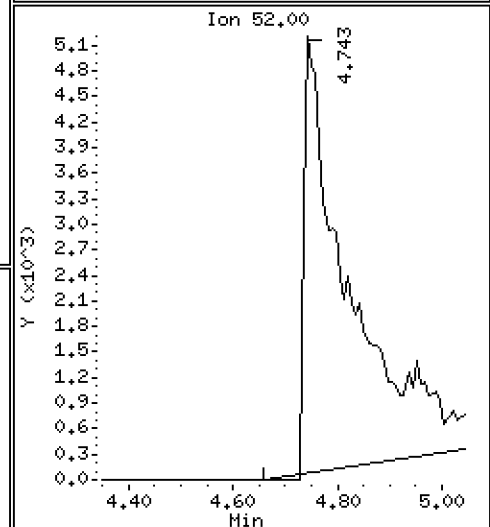
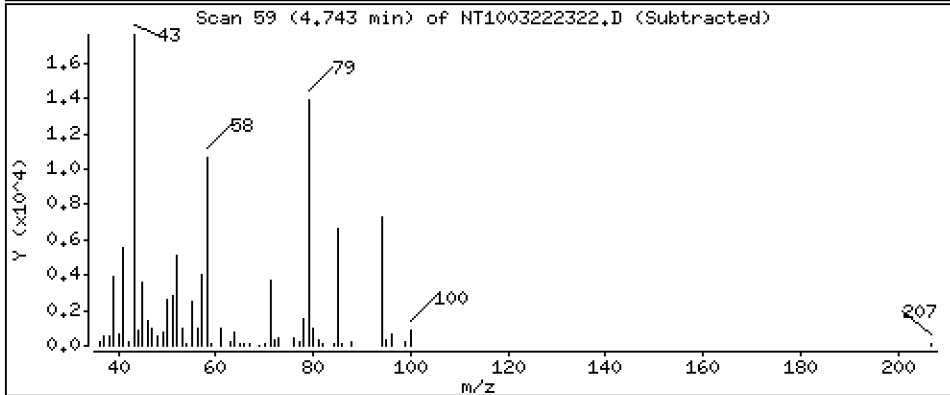
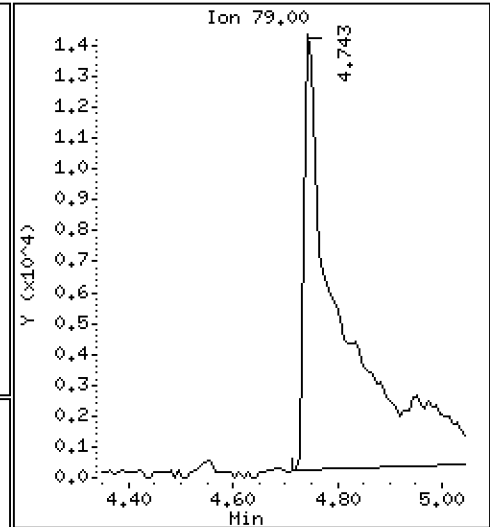
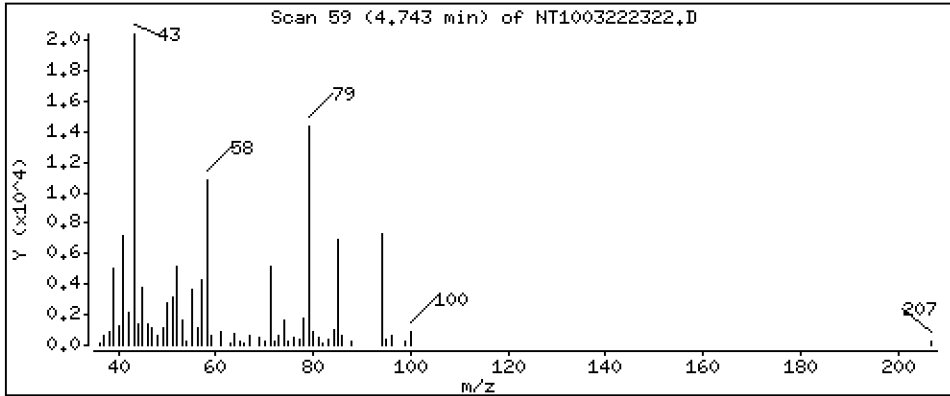
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 1,809 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

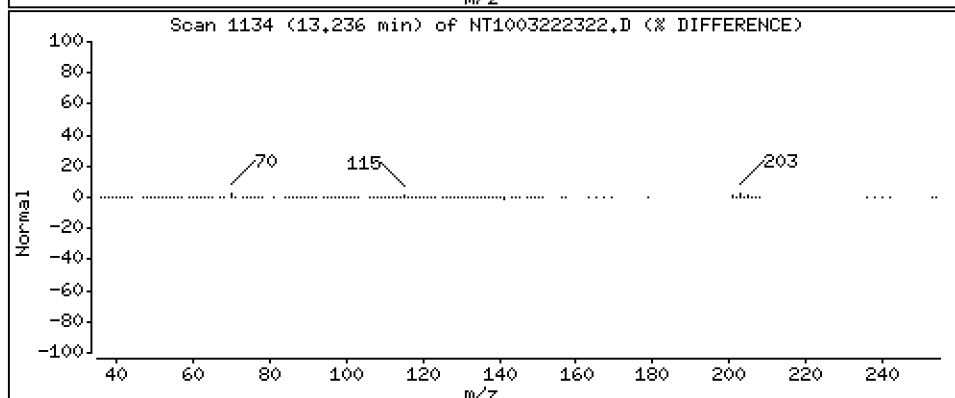
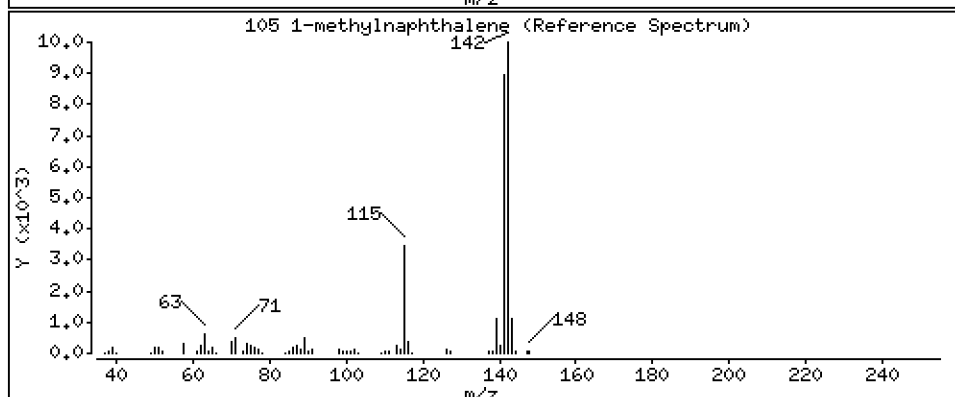
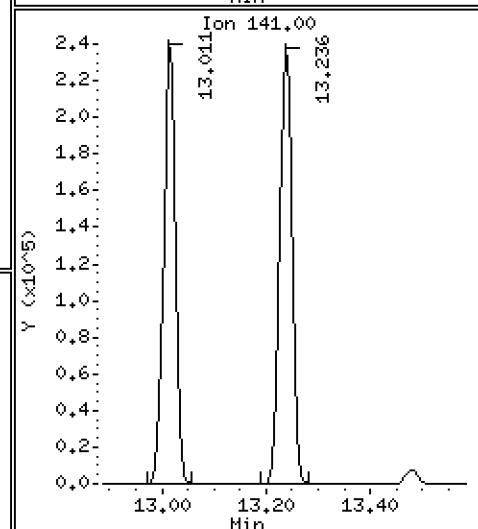
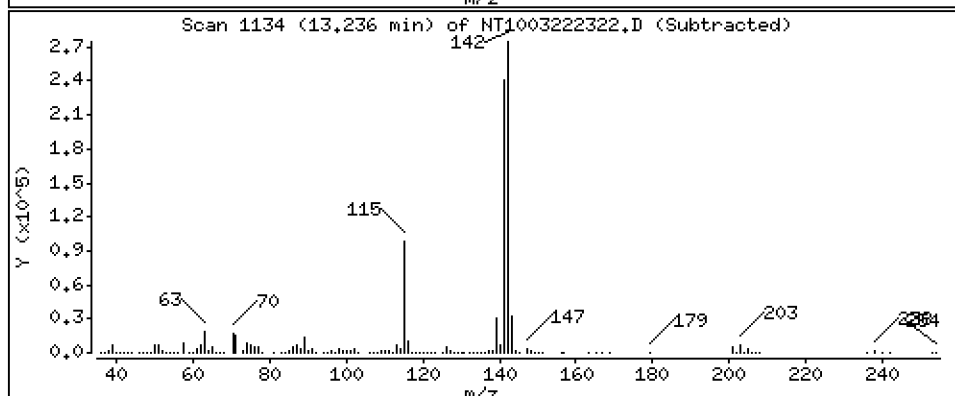
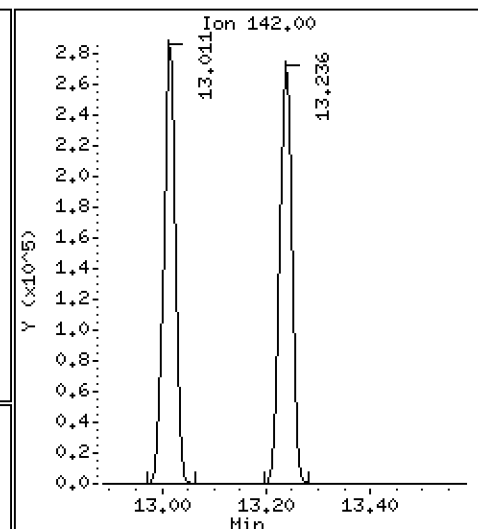
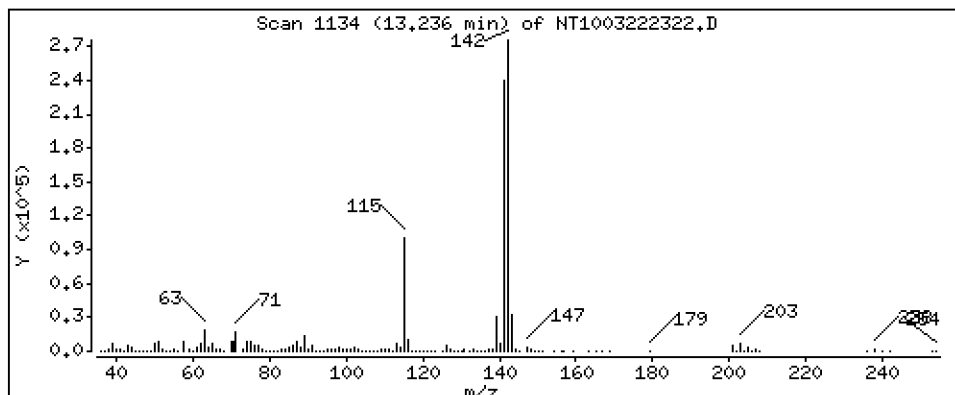
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,695 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

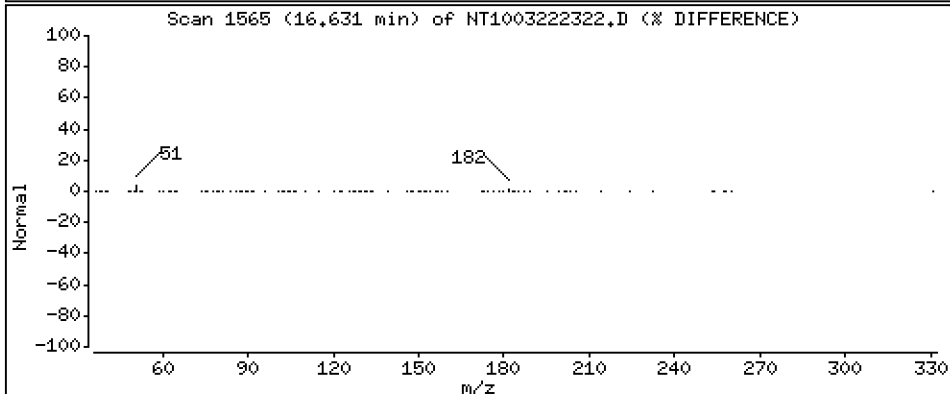
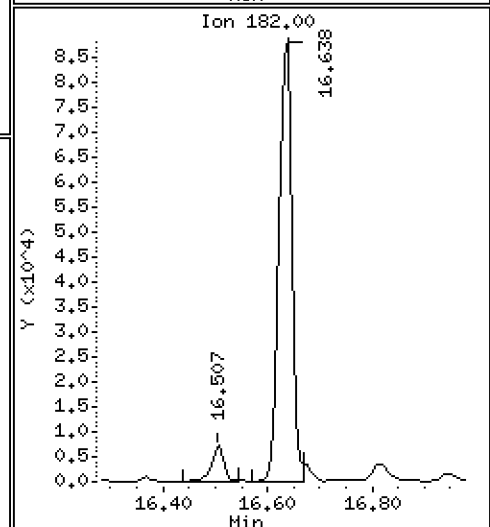
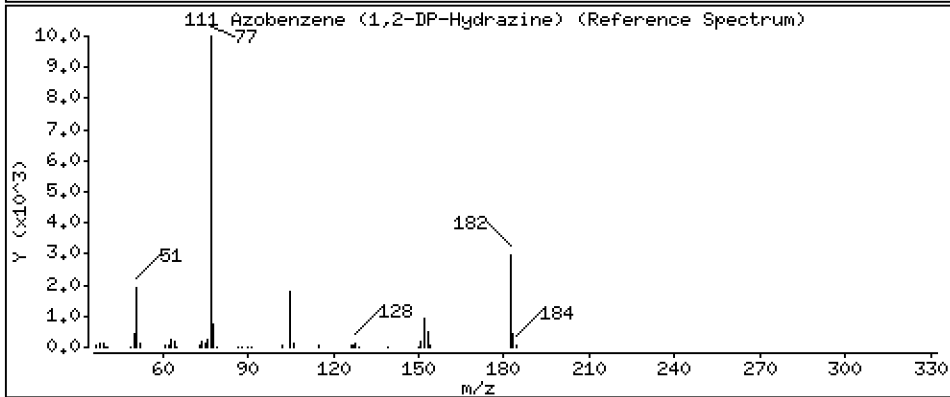
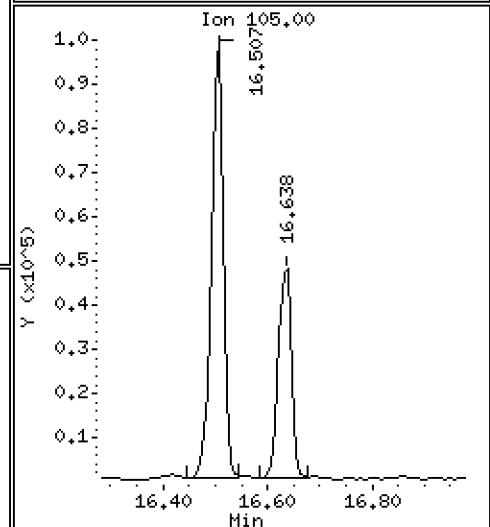
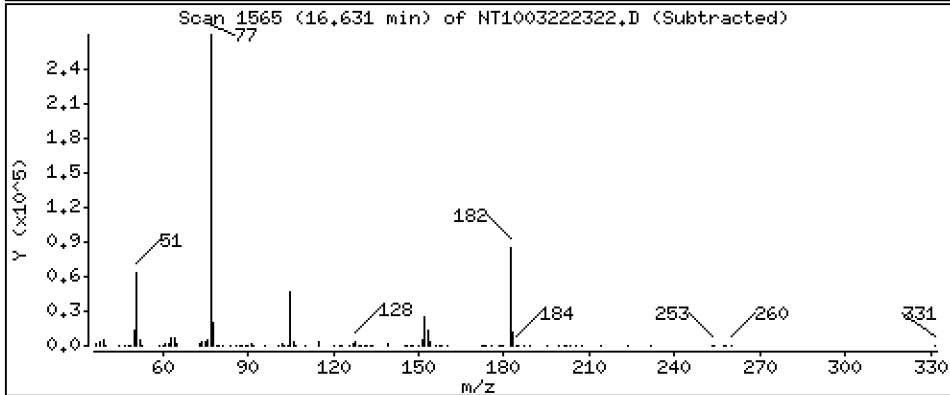
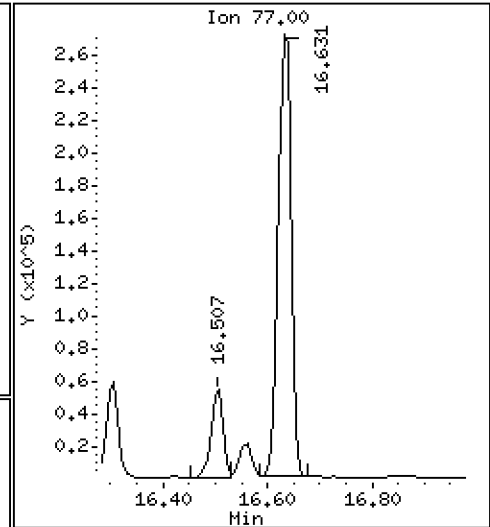
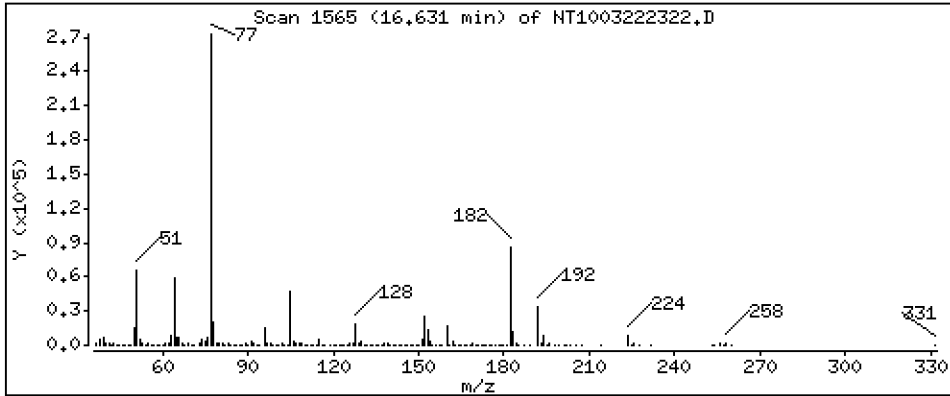
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,315 ug/mL



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

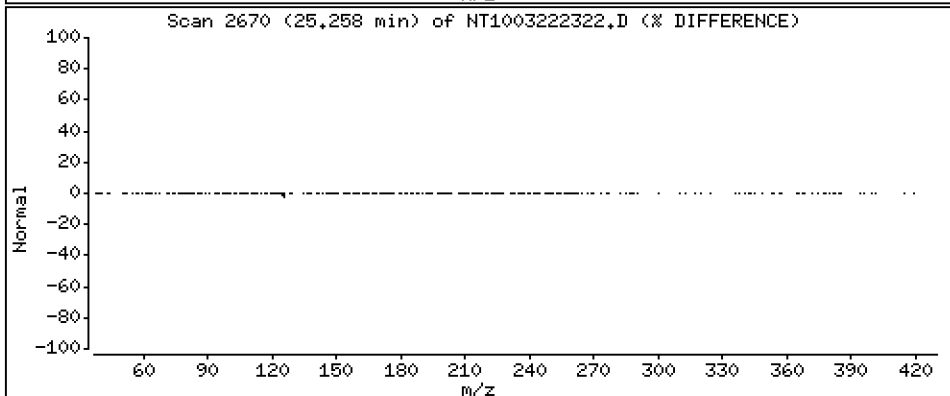
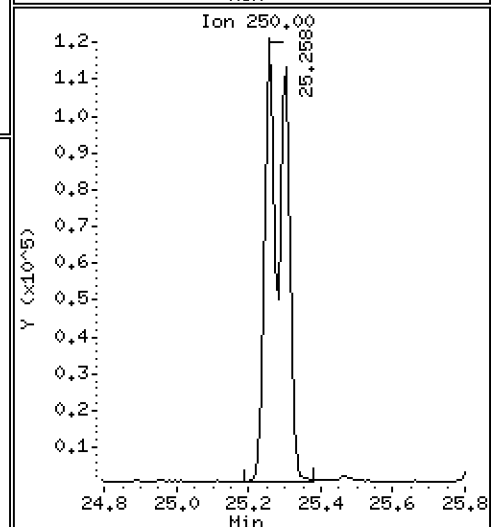
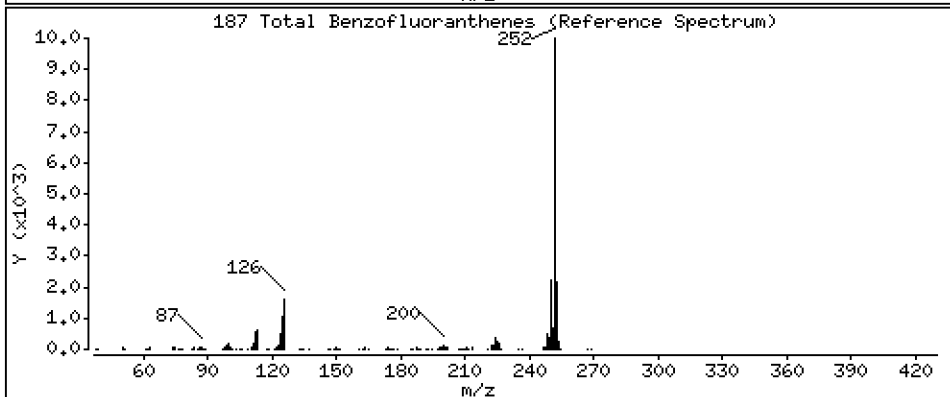
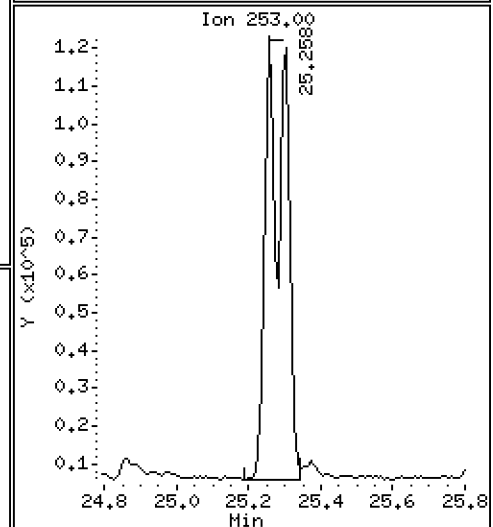
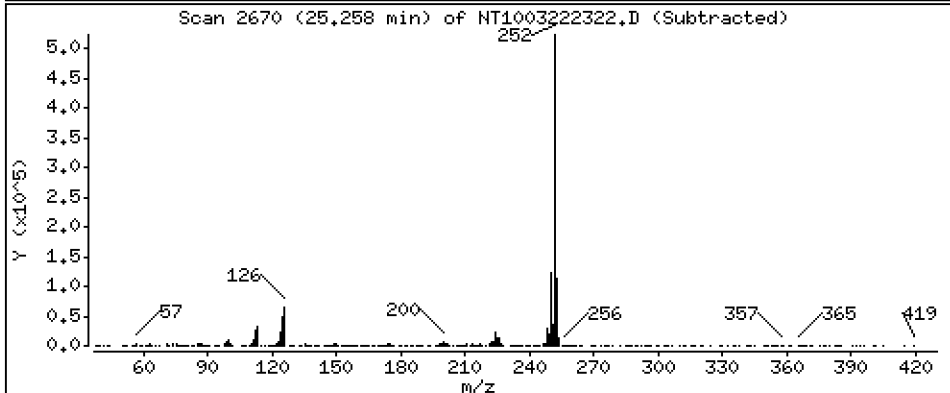
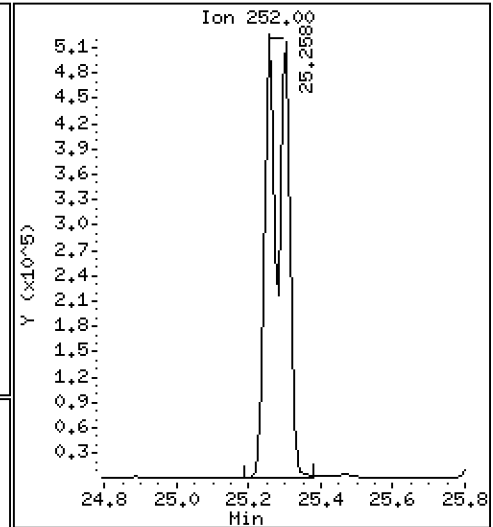
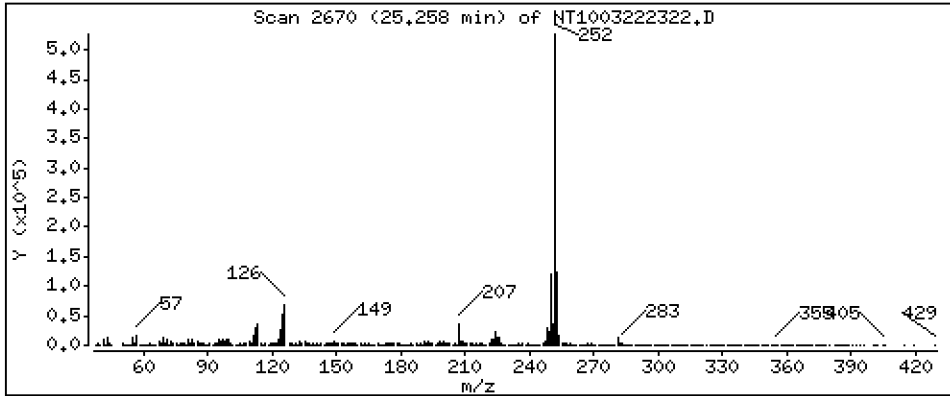
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 10,35 ug/mL





Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

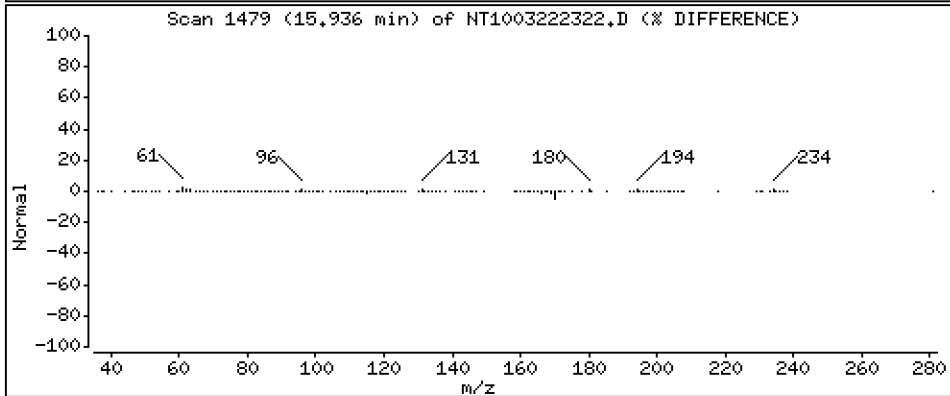
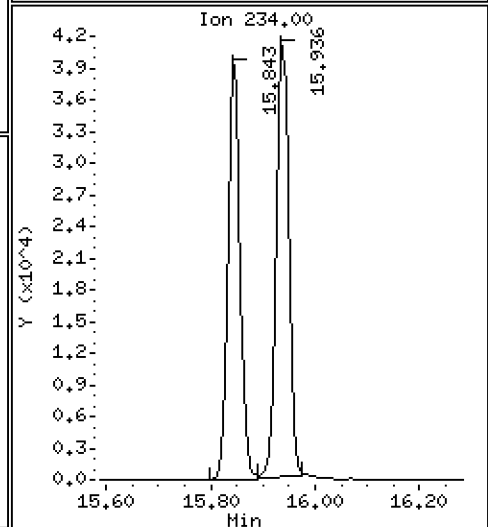
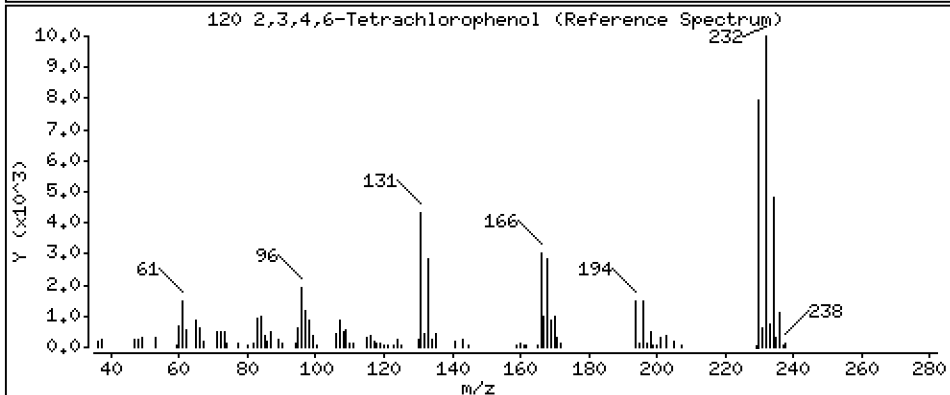
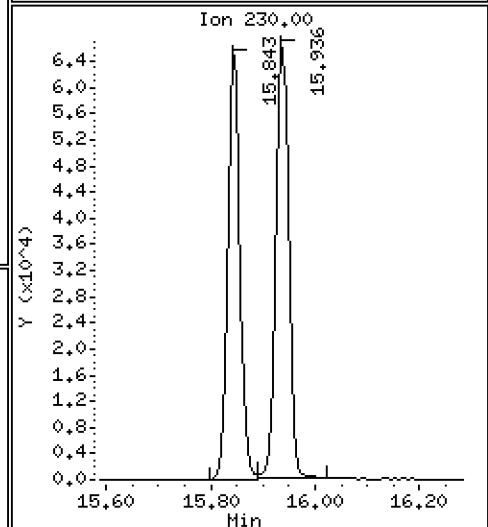
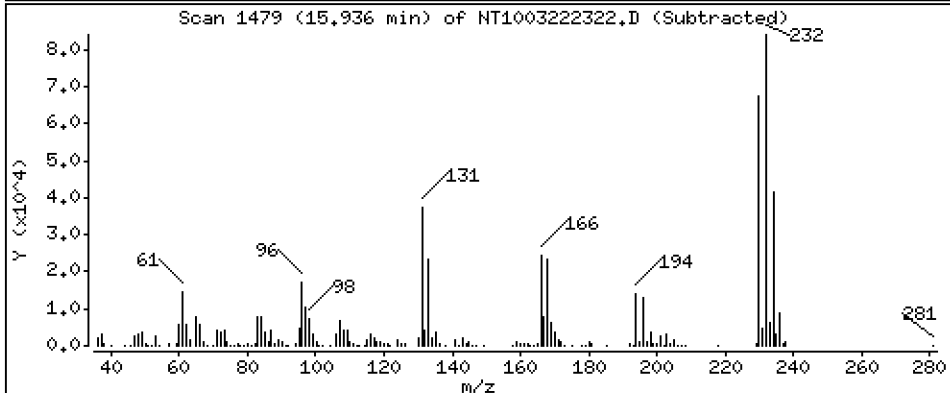
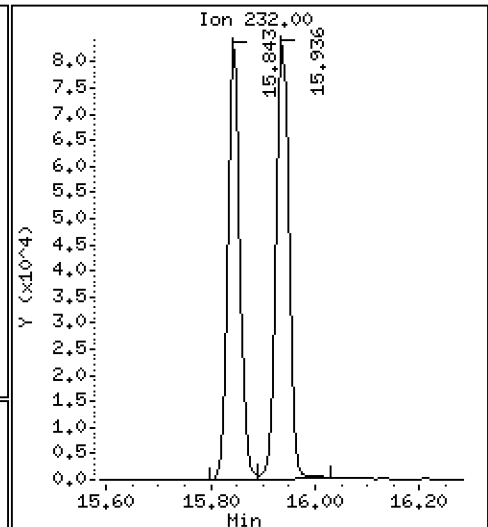
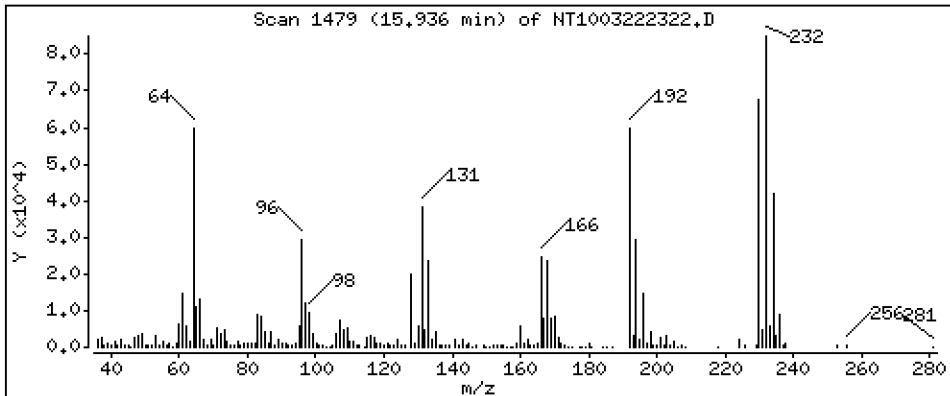
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 5,051 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222322.D  
 Lab Smp Id: BLC0442-MS1  
 Inj Date : 23-MAR-2023 06:24  
 Operator : VTS  
 Smp Info : BLC0442-MS1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 10:11 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 17  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
|                                 |       |     |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| \$ 1 2-Fluorophenol             | 112   |     | 6.859  | 6.851  | (0.755) | 258351   | 6.04812              | 6.048            |
| \$ 2 Phenol-d5                  | 99    |     | 8.450  | 8.450  | (0.930) | 364601   | 6.50644              | 6.506            |
| 3 Phenol                        | 94    |     | 8.474  | 8.474  | (0.933) | 244481   | 4.19845              | 4.198            |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.721  | 8.721  | (0.960) | 309342   | 6.46461              | 6.465            |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.628  | 8.628  | (0.950) | 239787   | 5.55207              | 5.552            |
| 6 2-Chlorophenol                | 128   |     | 8.752  | 8.752  | (0.963) | 197902   | 3.97092              | 3.971            |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.022  | 9.022  | (0.993) | 210304   | 3.99144              | 3.991            |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.085  | 9.085  | (1.000) | 141251   | 4.00000              |                  |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.116  | 9.116  | (1.003) | 208359   | 4.09362              | 4.094            |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.442  | 9.441  | (1.039) | 136340   | 3.96743              | 3.967            |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.473  | 9.473  | (1.043) | 205835   | 4.10918              | 4.109            |
| 11 Benzyl alcohol               | 108   |     | 9.356  | 9.356  | (1.030) | 114243   | 4.17983              | 4.180            |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.659  | 9.659  | (1.063) | 69260    | 4.70821              | 4.708            |
| 13 2-Methylphenol               | 108   |     | 9.589  | 9.589  | (1.056) | 166112   | 3.91323              | 3.913            |
| 17 Hexachloroethane             | 117   |     | 10.063 | 10.063 | (1.108) | 69637    | 3.33463              | 3.335            |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.915  | 9.915  | (1.091) | 134517   | 4.01328              | 4.013            |
| 15 4-Methylphenol               | 108   |     | 9.869  | 9.861  | (1.086) | 211712   | 4.73350              | 4.734            |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.187 | 10.179 | (0.880) | 220443   | 4.25550              | 4.256            |
| 19 Nitrobenzene                 | 77    |     | 10.218 | 10.218 | (0.882) | 210211   | 4.13502              | 4.135            |
| 20 Isophorone                   | 82    |     | 10.668 | 10.668 | (0.921) | 391131   | 6.01428              | 6.014            |
| 21 2-Nitrophenol                | 139   |     | 10.850 | 10.850 | (0.937) | 127718   | 5.13841              | 5.138            |
| 22 2,4-Dimethylphenol           | 107   |     | 10.909 | 10.901 | (0.942) | 518434   | 11.1029              | 11.10            |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.096 | 11.096 | (0.958) | 219192   | 5.04573              | 5.046            |
| 24 Benzoic acid                 | 105   |     | 11.130 | 11.105 | (0.961) | 659592   | 24.0067              | 24.01            |
| 25 2,4-Dichlorophenol           | 162   |     | 11.308 | 11.308 | (0.977) | 578908   | 15.4928              | 15.49            |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.487 | 11.487 | (0.992) | 187947   | 4.28496              | 4.285            |
| * 27 Naphthalene-d8             | 136   |     | 11.580 | 11.572 | (1.000) | 513214   | 4.00000              |                  |
| 28 Naphthalene                  | 128   |     | 11.618 | 11.618 | (1.003) | 580741   | 4.27148              | 4.271            |
| 29 4-Chloroaniline              | 127   |     | 11.819 | 11.750 | (1.021) | 145900   | 2.75077              | 2.751 (M)        |
| 30 Hexachlorobutadiene          | 225   |     | 11.981 | 11.981 | (1.035) | 121819   | 4.73992              | 4.740            |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.717 | 12.717 | (1.098) | 578488   | 14.3010              | 14.30            |
| 32 2-Methylnaphthalene          | 142   |     | 13.011 | 13.018 | (1.124) | 444380   | 4.52916              | 4.529            |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.483 | 13.483 | (0.887) | 102413   | 3.80256              | 3.803            |

| Compounds                         | QUANT | SIG |                        |        |         |         |          | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|------------------------|--------|---------|---------|----------|----------------------|------------------|
|                                   |       |     | MASS                   | RT     | EXP RT  | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     | 13.638                 | 13.638 | (0.897) | 442592  | 15.3879  | 15.39                |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     | 13.715                 | 13.715 | (0.902) | 465698  | 14.5717  | 14.57                |                  |
| § 36 2-Fluorobiphenyl             | 172   |     | 13.800                 | 13.800 | (0.908) | 518231  | 4.50183  | 4.502                |                  |
| 37 2-Chloronaphthalene            | 162   |     | 14.009                 | 14.009 | (0.922) | 413557  | 4.43683  | 4.437                |                  |
| 38 2-Nitroaniline                 | 65    |     | 14.280                 | 14.272 | (0.939) | 340343  | 12.9987  | 13.00                |                  |
| 39 Dimethylphthalate              | 163   |     | 14.713                 | 14.706 | (0.968) | 478518  | 5.06171  | 5.062                |                  |
| 40 Acenaphthylene                 | 152   |     | 14.884                 | 14.884 | (0.979) | 632840  | 4.35709  | 4.357                |                  |
| 41 2,6-Dinitrotoluene             | 165   |     | 14.853                 | 14.845 | (0.977) | 317061  | 15.5253  | 15.53                |                  |
| * 42 Acenaphthene-d10             | 164   |     | 15.201                 | 15.201 | (1.000) | 291010  | 4.00000  |                      |                  |
| 43 3-Nitroaniline                 | 138   |     | 15.139                 | 15.131 | (0.996) | 166179  | 7.20934  | 7.209                |                  |
| 44 Acenaphthene                   | 153   |     | 15.270                 | 15.263 | (1.005) | 412398  | 4.59604  | 4.596                |                  |
| 45 2,4-Dinitrophenol              | 184   |     | 15.348                 | 15.348 | (1.010) | 206224  | 16.1966  | 16.20                |                  |
| 46 Dibenzofuran                   | 168   |     | 15.595                 | 15.595 | (1.026) | 616422  | 4.65861  | 4.659                |                  |
| 47 4-Nitrophenol                  | 109   |     | 15.471                 | 15.464 | (1.018) | 179027  | 12.4450  | 12.44                |                  |
| 48 2,4-Dinitrotoluene             | 165   |     | 15.665                 | 15.657 | (1.031) | 437008  | 14.4828  | 14.48                |                  |
| 50 Diethylphthalate               | 149   |     | 16.175                 | 16.175 | (1.064) | 554386  | 5.97688  | 5.977                |                  |
| 49 Fluorene                       | 166   |     | 16.314                 | 16.314 | (1.073) | 509922  | 4.89842  | 4.898                |                  |
| 51 4-Chlorophenyl-phenylether     | 204   |     | 16.306                 | 16.306 | (1.073) | 250593  | 5.06224  | 5.062                |                  |
| 52 4-Nitroaniline                 | 138   |     | 16.414                 | 16.406 | (1.080) | 204403  | 9.83988  | 9.840                |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     | 16.507                 | 16.507 | (0.904) | 441431  | 25.4792  | 25.48                |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     | 16.561                 | 16.561 | (0.907) | 305505  | 4.09877  | 4.099                |                  |
| § 55 2,4,6-Tribromophenol         | 330   |     | 16.854                 | 16.846 | (1.109) | 129084  | 9.54721  | 9.547                |                  |
| 56 4-Bromophenyl-phenylether      | 248   |     | 17.316                 | 17.316 | (0.948) | 163300  | 5.23709  | 5.237                |                  |
| 57 Hexachlorobenzene              | 284   |     | 17.634                 | 17.634 | (0.966) | 165874  | 5.07384  | 5.074                |                  |
| 58 Pentachlorophenol              | 266   |     | 17.997                 | 17.990 | (0.986) | 326357  | 16.3387  | 16.34                |                  |
| * 59 Phenanthrene-d10             | 188   |     | 18.260                 | 18.260 | (1.000) | 557499  | 4.00000  |                      |                  |
| 60 Phenanthrene                   | 178   |     | 18.307                 | 18.307 | (1.003) | 731784  | 4.81380  | 4.814                |                  |
| 61 Anthracene                     | 178   |     | 18.400                 | 18.400 | (1.008) | 625835  | 4.29170  | 4.292                |                  |
| 62 Carbazole                      | 167   |     | 18.740                 | 18.732 | (1.026) | 617061  | 4.72221  | 4.722                |                  |
| 63 Di-n-butylphthalate            | 149   |     | 19.553                 | 19.545 | (1.071) | 925987  | 5.30017  | 5.300                |                  |
| 64 Fluoranthene                   | 202   |     | 20.760                 | 20.713 | (0.889) | 940377  | 4.57724  | 4.577                |                  |
| 65 Pyrene                         | 202   |     | 21.154                 | 21.139 | (0.906) | 1020638 | 4.84285  | 4.843                |                  |
| § 66 Terphenyl-d14                | 244   |     | 21.440                 | 21.433 | (0.918) | 703527  | 4.44510  | 4.445                |                  |
| 67 Butylbenzylphthalate           | 149   |     | 22.377                 | 22.377 | (0.958) | 387403  | 5.07020  | 5.070                |                  |
| 68 Benzo(a)anthracene             | 228   |     | 23.330                 | 23.322 | (0.999) | 874147  | 4.84371  | 4.844                |                  |
| * 69 Chrysene-d12                 | 240   |     | 23.361                 | 23.353 | (1.000) | 511293  | 4.00000  |                      |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     | 23.291                 | 23.283 | (0.997) | 67009   | 1.15918  | 1.159                |                  |
| 71 Chrysene                       | 228   |     | 23.399                 | 23.399 | (1.002) | 808395  | 4.58491  | 4.585                |                  |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 23.423                 | 23.415 | (0.959) | 593682  | 4.66173  | 4.662                |                  |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 24.429                 | 24.421 | (1.000) | 868170  | 4.00000  |                      |                  |
| 73 Di-n-octylphthalate            | 149   |     | 24.437                 | 24.437 | (1.000) | 1085606 | 4.77832  | 4.778                |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 25.257                 | 25.250 | (0.970) | 1034721 | 5.28471  | 5.285                |                  |
| 75 Benzo(k)fluoranthene           | 252   |     | 25.304                 | 25.296 | (0.971) | 1016228 | 5.11145  | 5.111                |                  |
| 76 Benzo(a)pyrene                 | 252   |     | 25.931                 | 25.923 | (0.996) | 859813  | 4.91176  | 4.912                |                  |
| * 77 Perylene-d12                 | 264   |     | 26.047                 | 26.040 | (1.000) | 604025  | 4.00000  |                      |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 28.801                 | 28.793 | (1.106) | 975480  | 4.38008  | 4.380                |                  |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 28.824                 | 28.816 | (1.107) | 815923  | 4.41285  | 4.413                |                  |
| 80 Benzo(g,h,i)perylene           | 276   |     | 29.616                 | 29.601 | (1.137) | 791966  | 4.10908  | 4.109                |                  |
| 90 N-Nitrosodimethylamine         | 74    |     | 4.673                  | 4.665  | (0.514) | 232005  | 8.51336  | 8.513                |                  |
| 91 Aniline                        | 93    |     | Compound Not Detected. |        |         |         |          |                      |                  |
| 93 Benzidine                      | 184   |     | Compound Not Detected. |        |         |         |          |                      |                  |
| 103 Pyridine                      | 79    |     | 4.742                  | 4.696  | (0.522) | 75728   | 1.80937  | 1.809 (M)            |                  |
| 105 1-methylnaphthalene           | 142   |     | 13.235                 | 13.235 | (1.143) | 422033  | 4.69477  | 4.695                |                  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     | 16.630                 | 16.630 | (1.094) | 447107  | 4.31515  | 4.315                |                  |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 25.257 | 25.296 | (0.970) | 1957475  | 10.3545              | 10.35            |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 15.935 | 15.935 | (1.048) | 152889   | 5.05149              | 5.051            |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-MAR-2023  
 Lab File ID: NT1003222322.D Calibration Time: 03:15  
 Lab Smp Id: BLC0442-MS1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 137603   | 68802      | 275206  | 141251 | 2.65  |
| 27 Naphthalene-d8     | 494588   | 247294     | 989176  | 513214 | 3.77  |
| 42 Acenaphthene-d10   | 278674   | 139337     | 557348  | 291010 | 4.43  |
| 59 Phenanthrene-d10   | 509229   | 254615     | 1018458 | 557499 | 9.48  |
| 69 Chrysene-d12       | 462271   | 231136     | 924542  | 511293 | 10.60 |
| 134 Di-n-octylphthala | 782572   | 391286     | 1565144 | 868170 | 10.94 |
| 77 Perylene-d12       | 551153   | 275577     | 1102306 | 604025 | 9.59  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.09     | 8.59     | 9.59  | 9.09   | 0.00  |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.58  | 0.07  |
| 42 Acenaphthene-d10   | 15.20    | 14.70    | 15.70 | 15.20  | 0.00  |
| 59 Phenanthrene-d10   | 18.26    | 17.76    | 18.76 | 18.26  | 0.00  |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.36  | 0.03  |
| 134 Di-n-octylphthala | 24.42    | 23.92    | 24.92 | 24.43  | 0.03  |
| 77 Perylene-d12       | 26.04    | 25.54    | 26.54 | 26.05  | 0.03  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222322.D

Lab ID: BLC0442-MS1  
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 06:24

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND        |
|-------|---------|--------|-----------------|
| 1.021 | 1.015   | 0.0053 | 4-Chloroaniline |
| 0.522 | 0.517   | 0.0051 | Pyridine        |

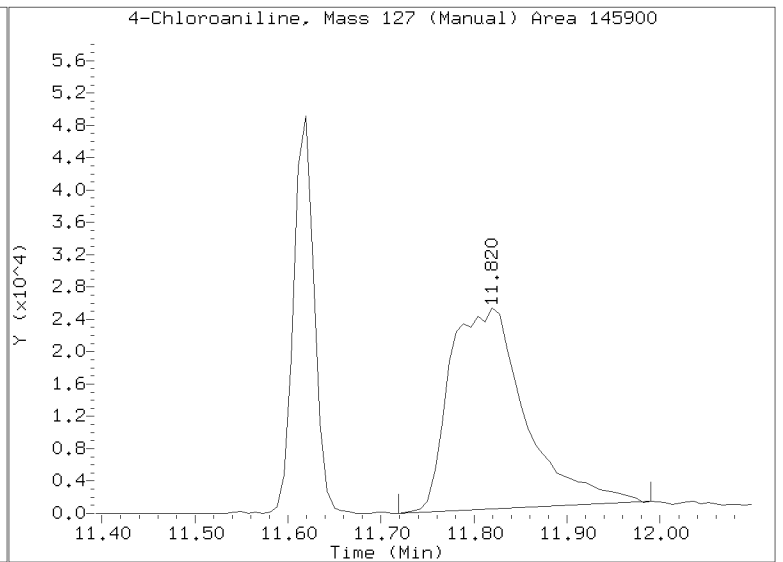
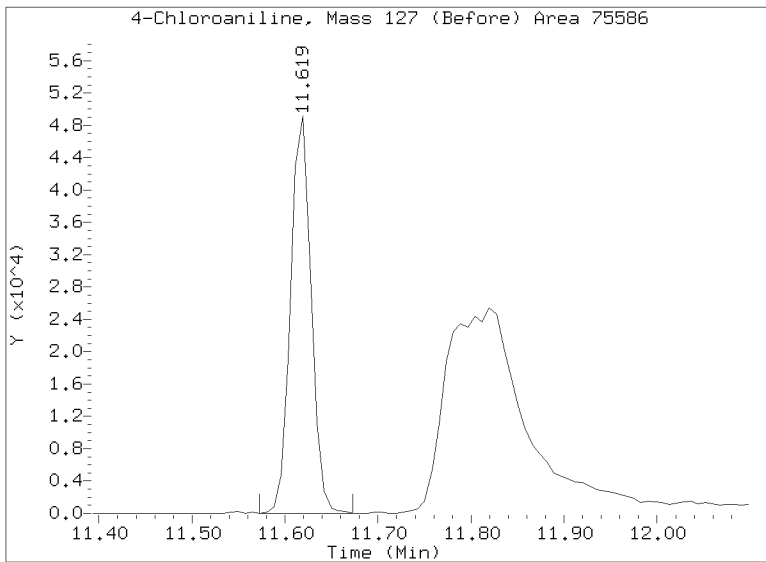
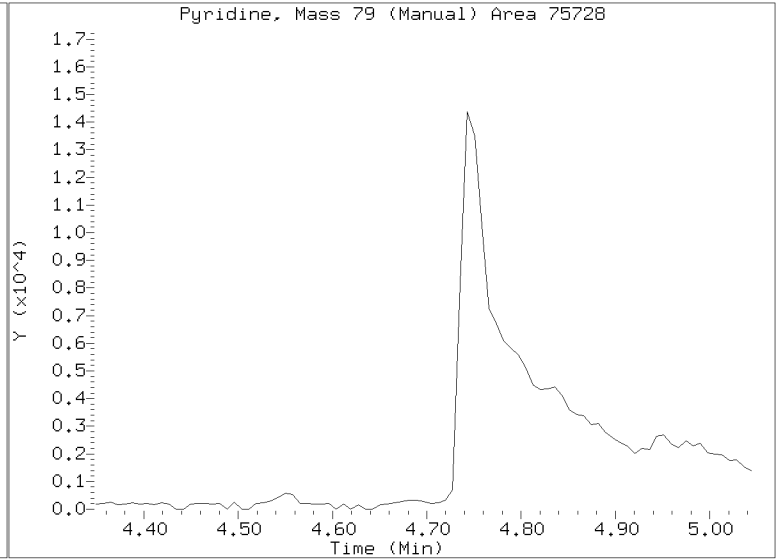
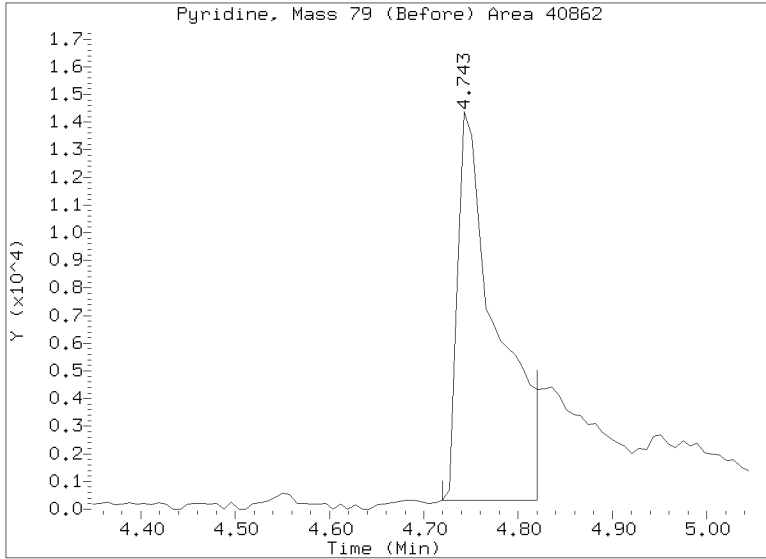
RRT check based on Ccal File: NT1003222317.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222322.D  
Injection Date: 23-MAR-2023 06:24  
Lab ID: BLC0442-MS1 Client ID:  
Report Date: 03/25/2023 10:12



Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222323.D

Date: 23-MAR-2023 07:01

Client ID:

Sample Info: BLC0442-HSDM

Page 1

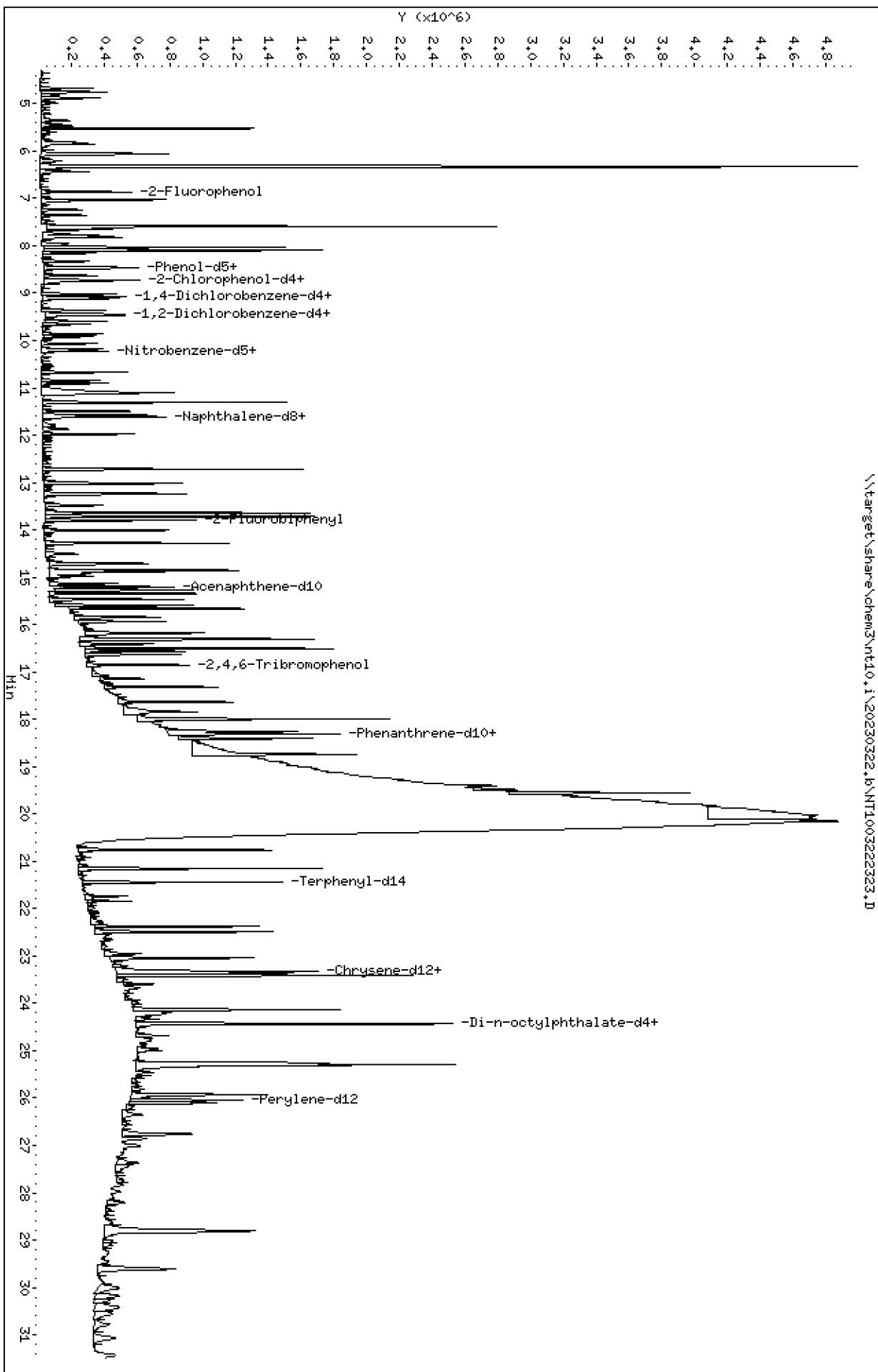
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

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Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

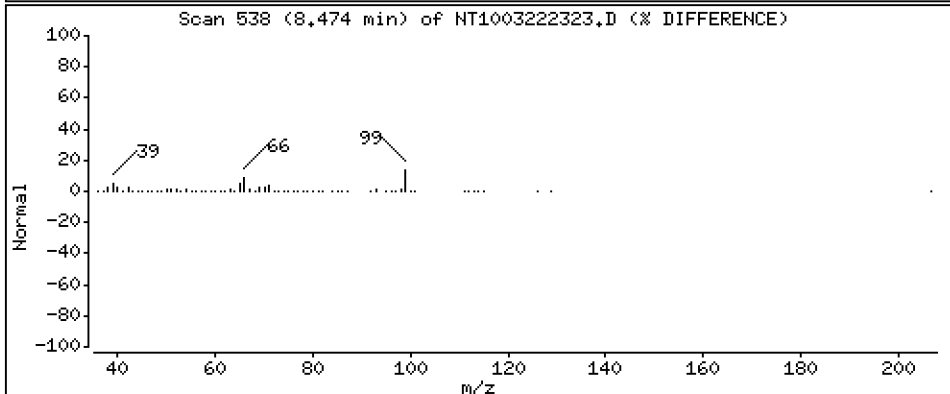
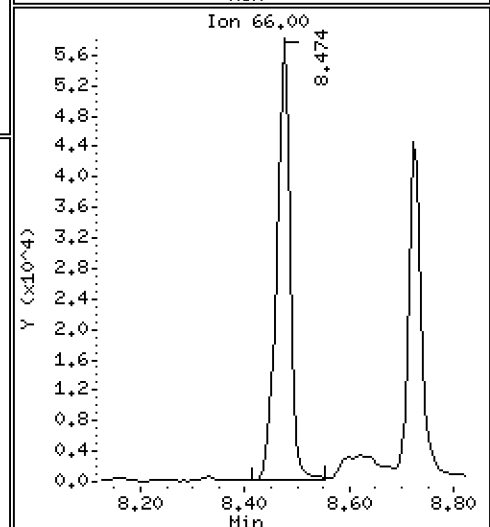
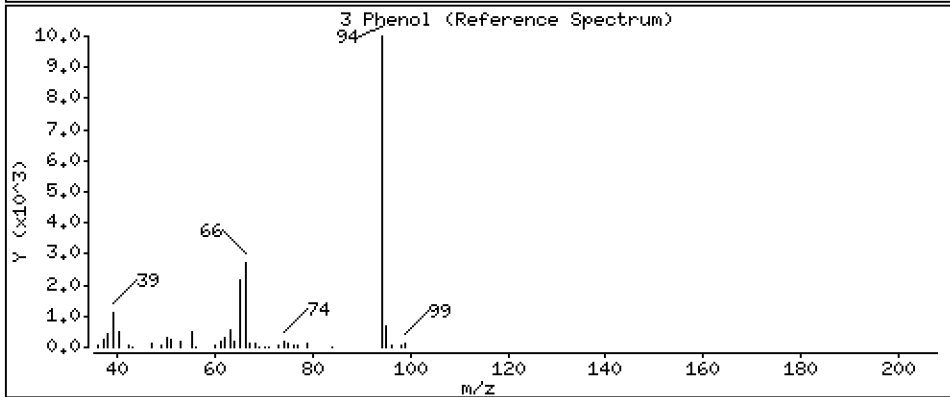
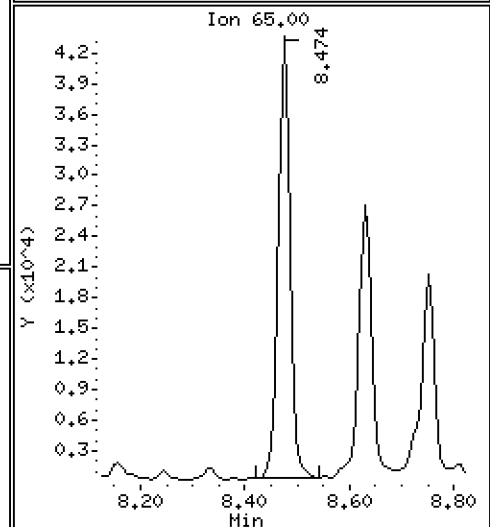
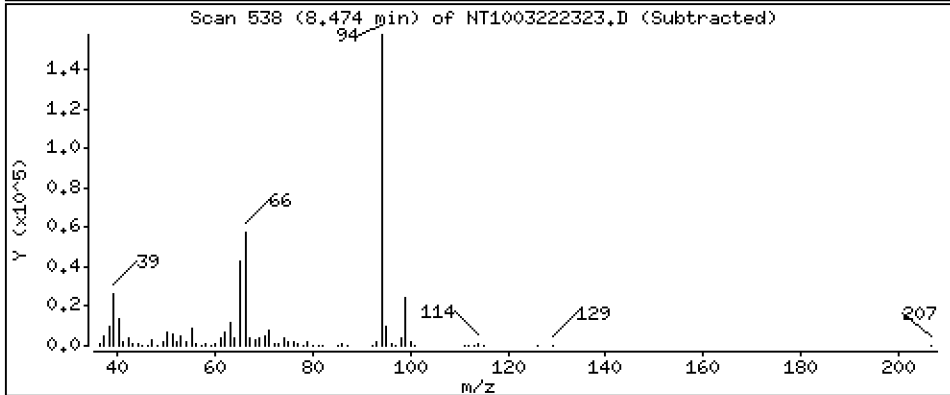
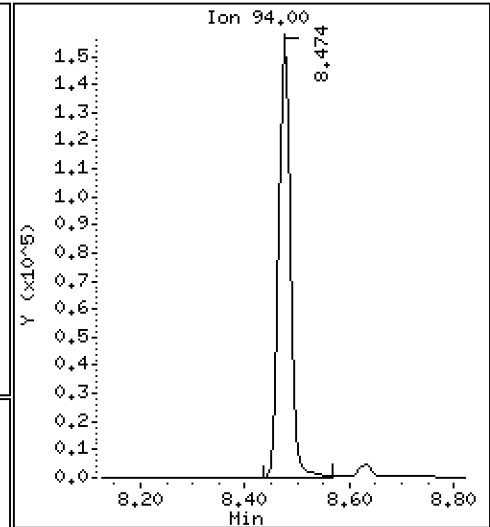
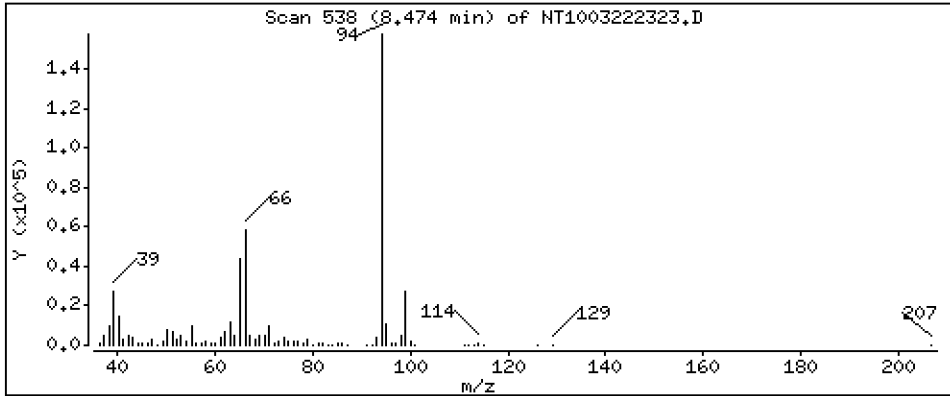
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 3,901 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

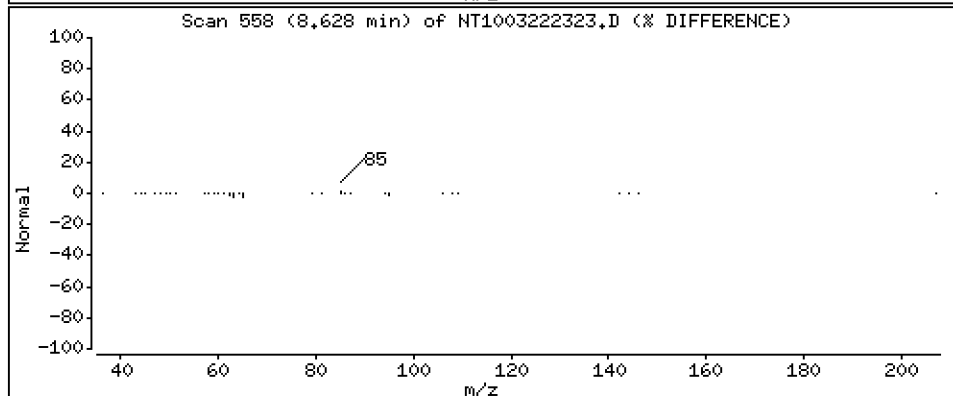
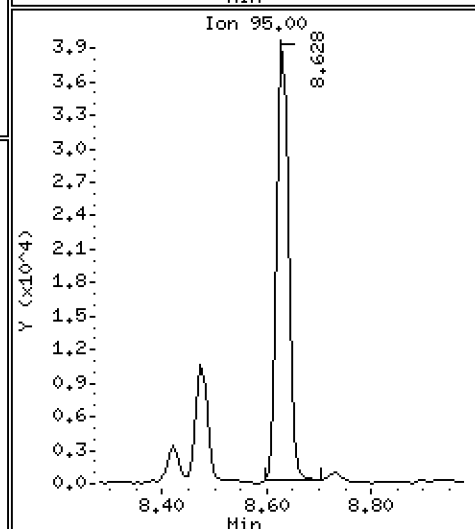
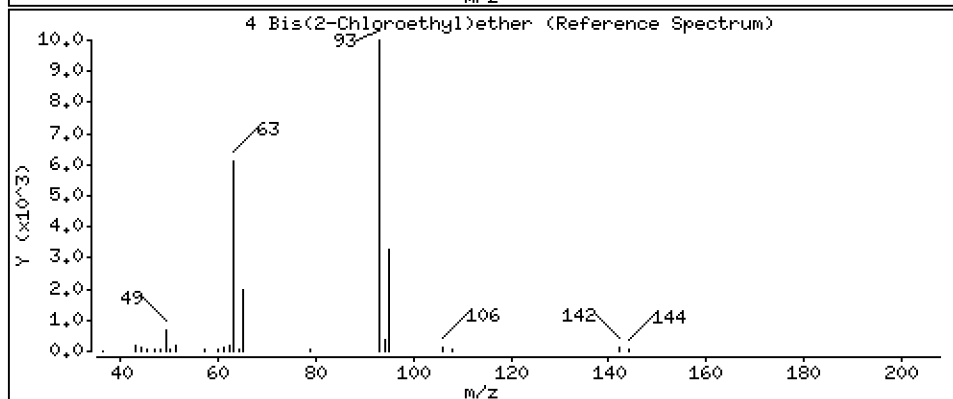
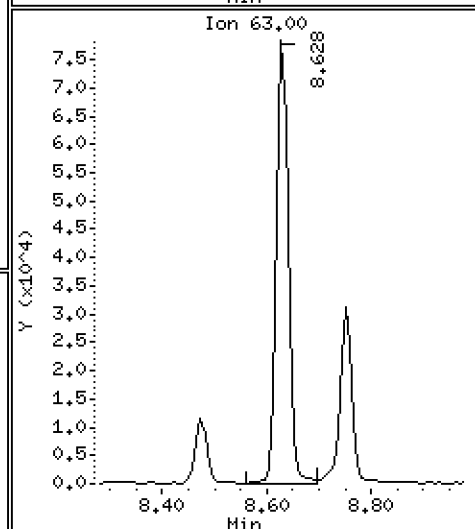
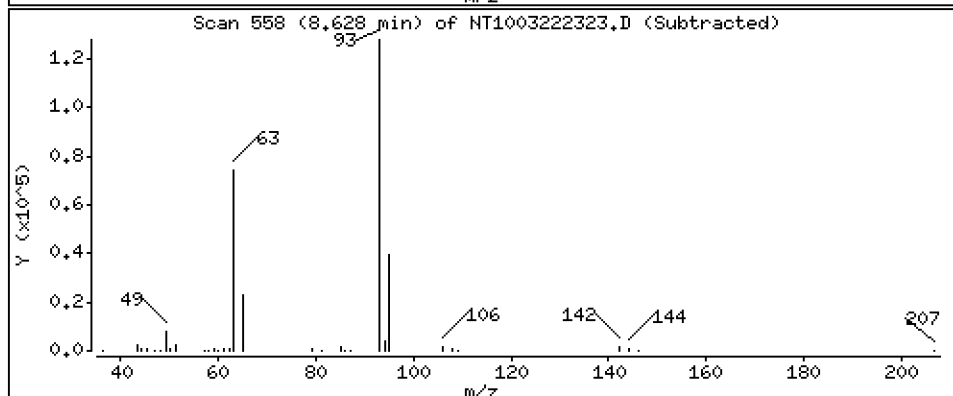
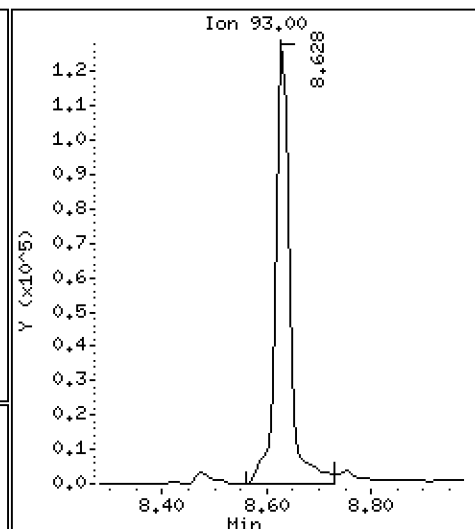
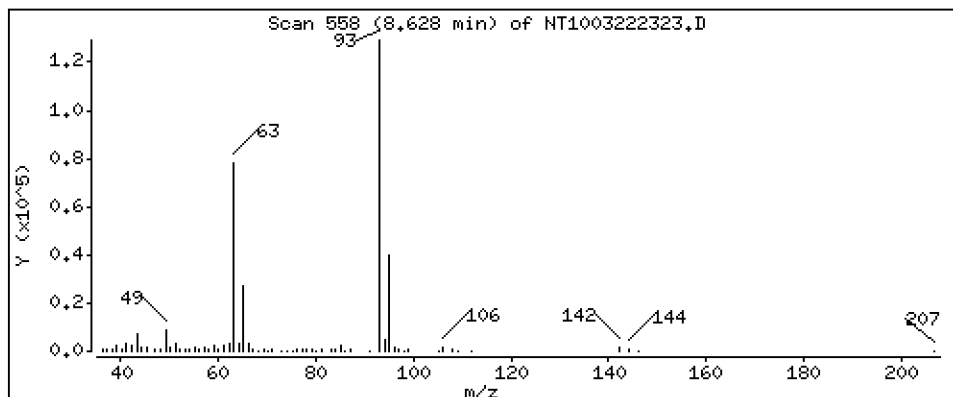
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 5,308 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

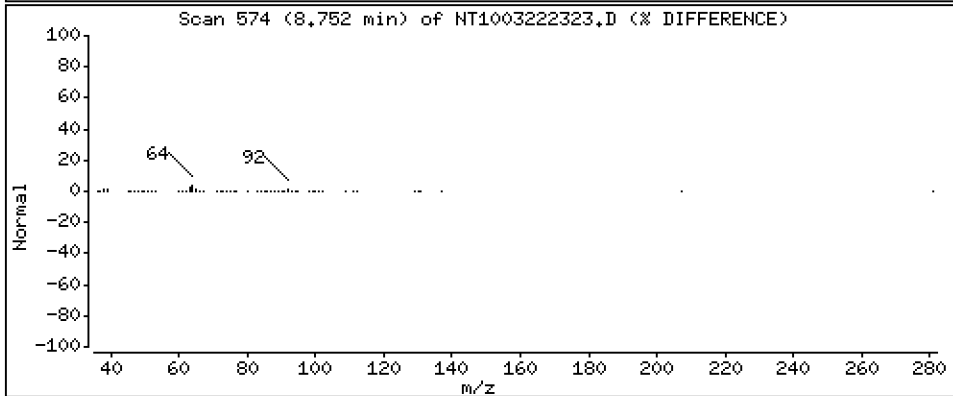
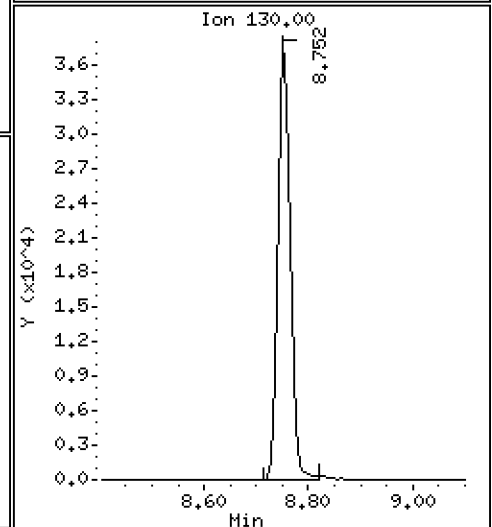
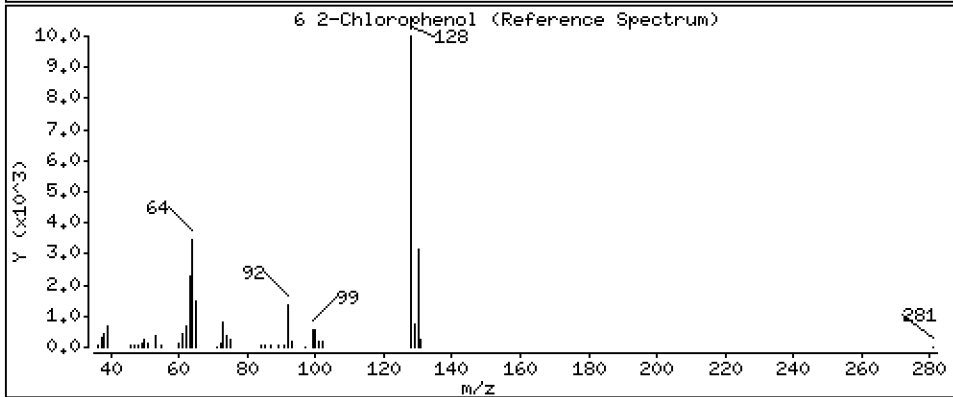
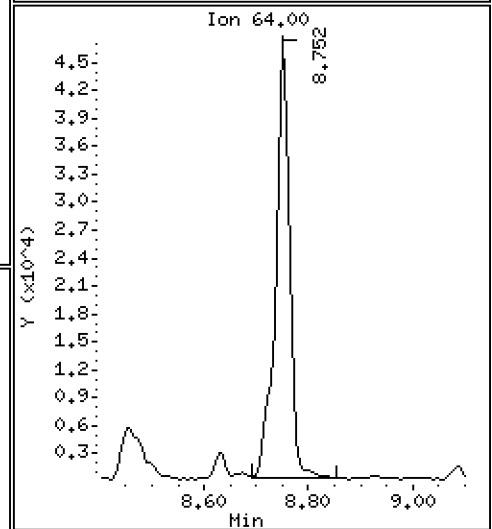
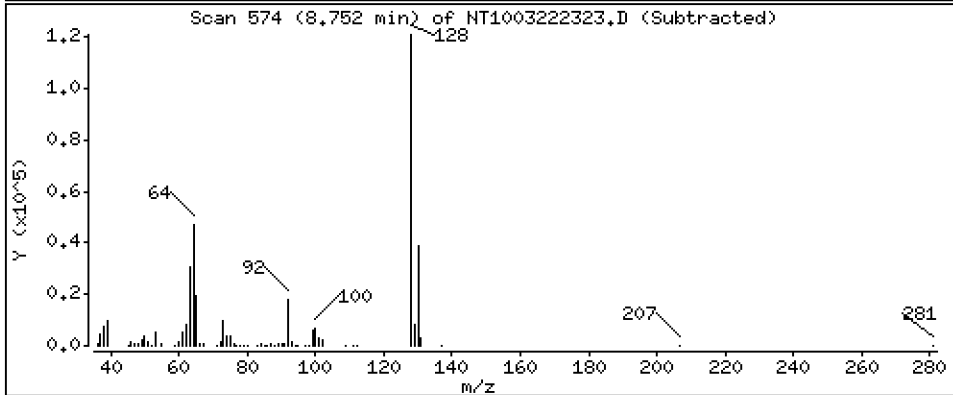
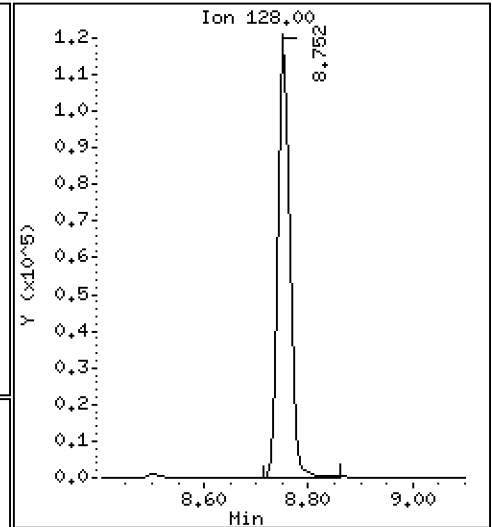
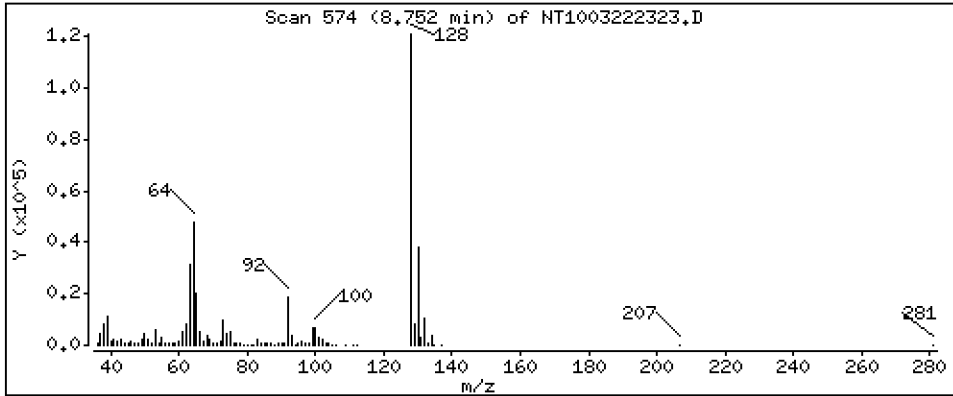
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 3,681 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

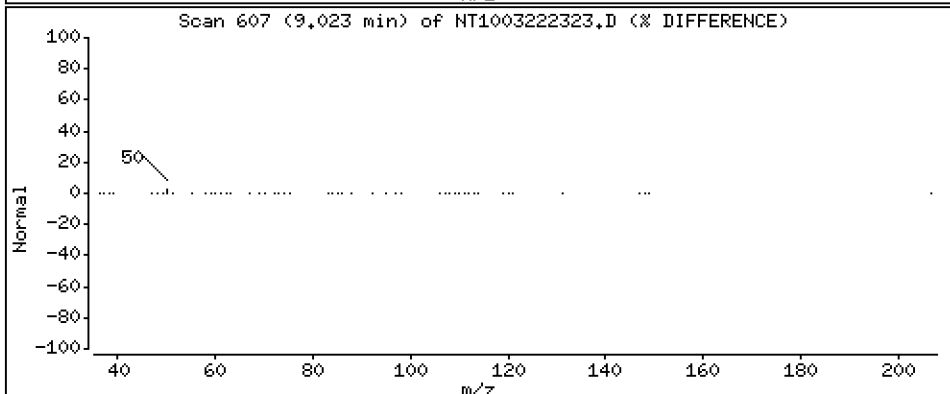
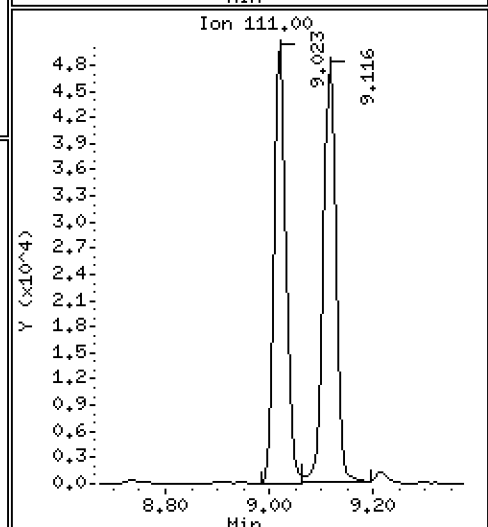
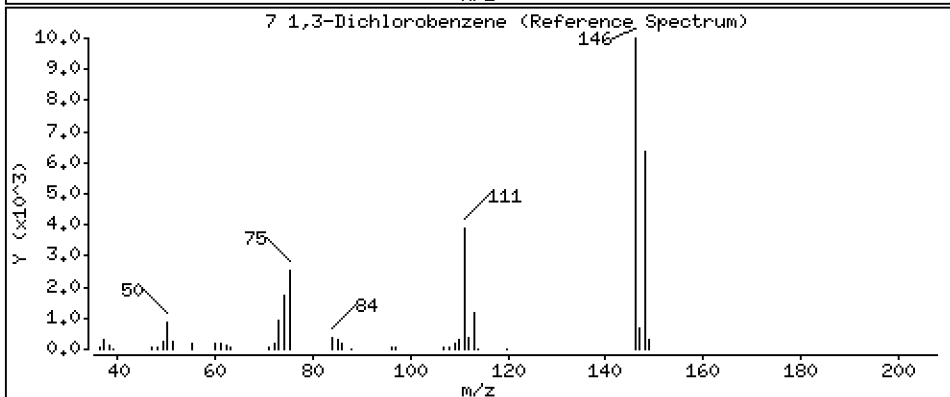
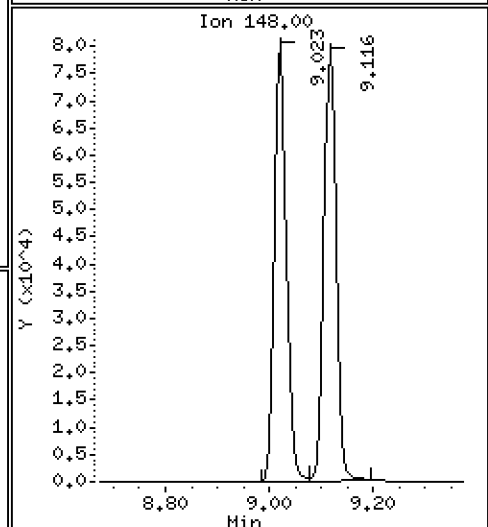
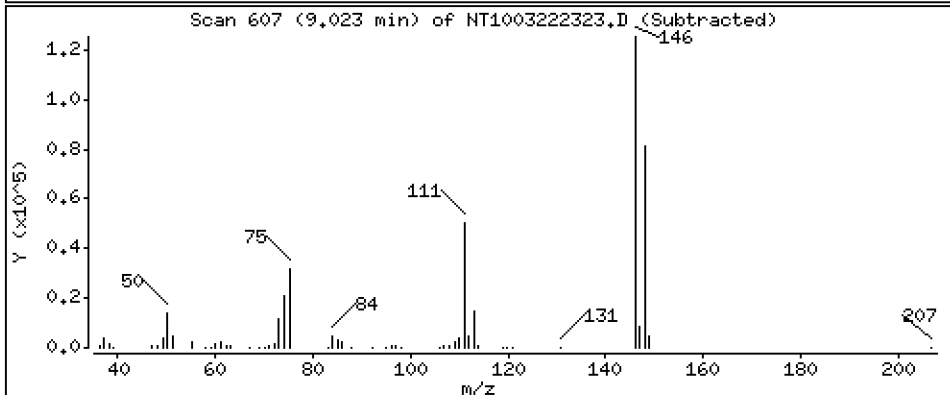
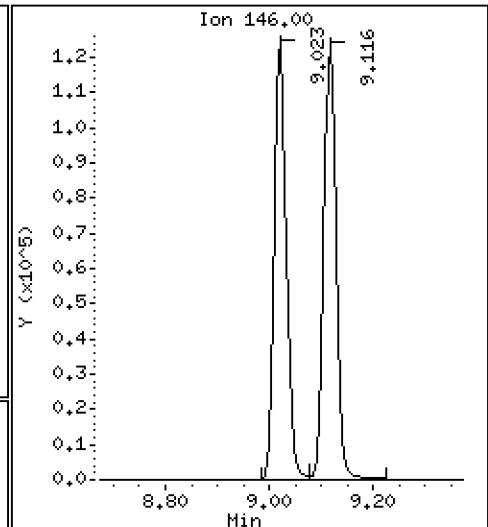
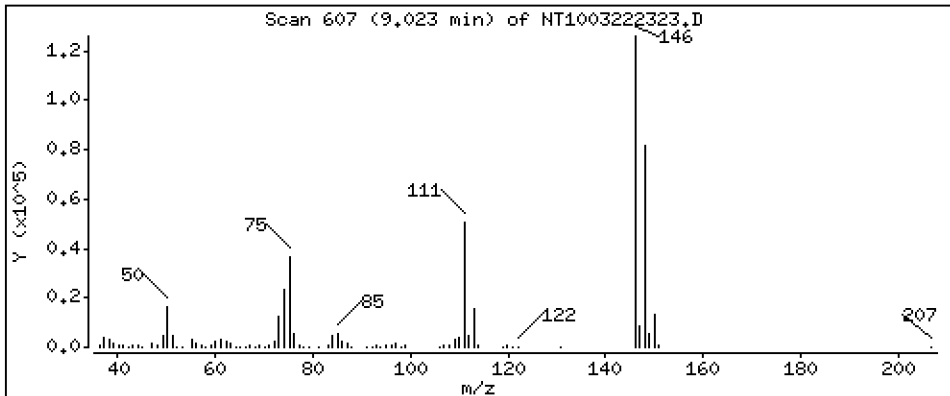
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 3,721 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

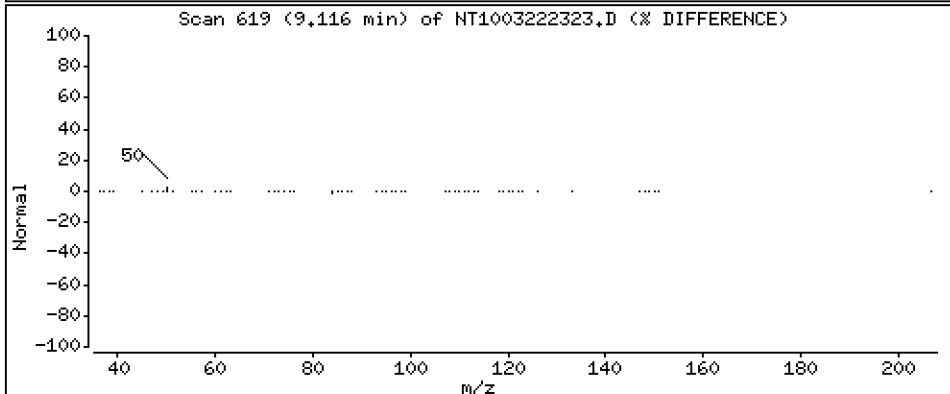
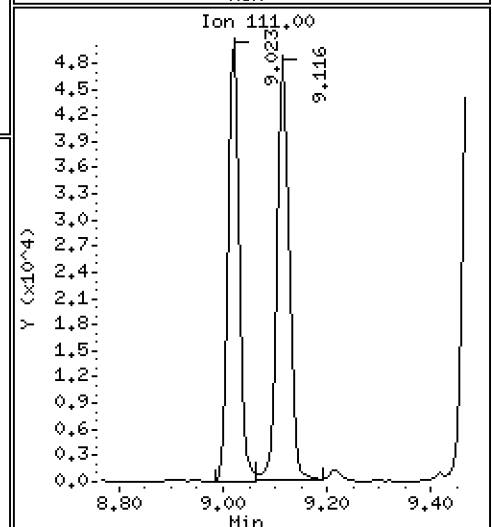
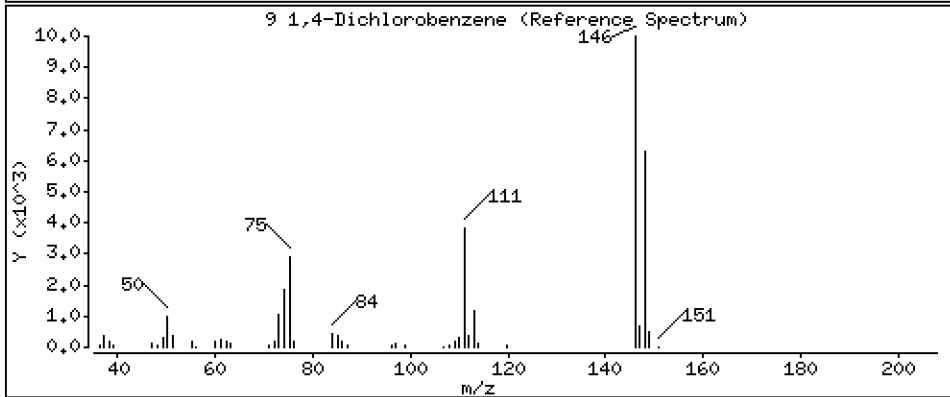
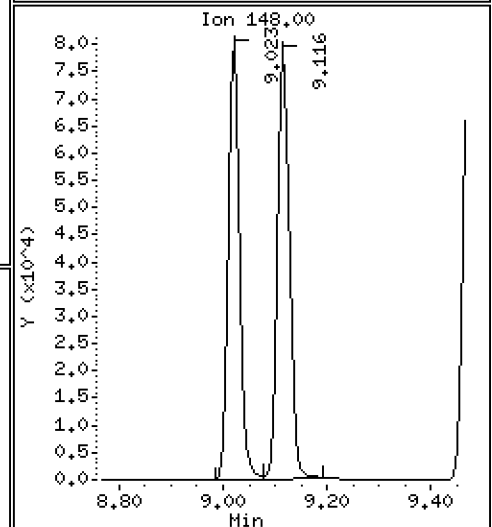
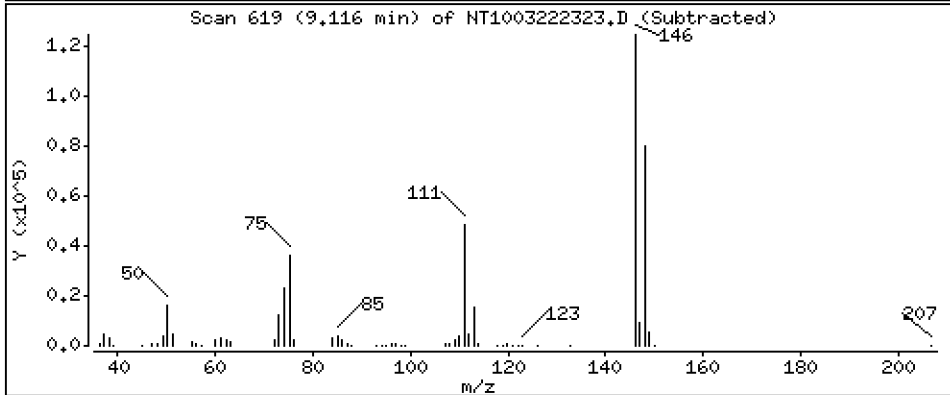
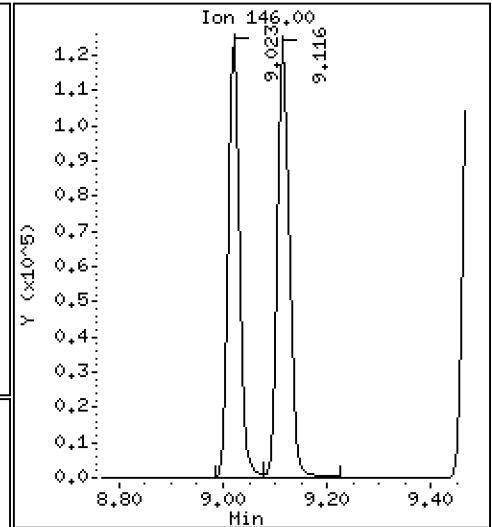
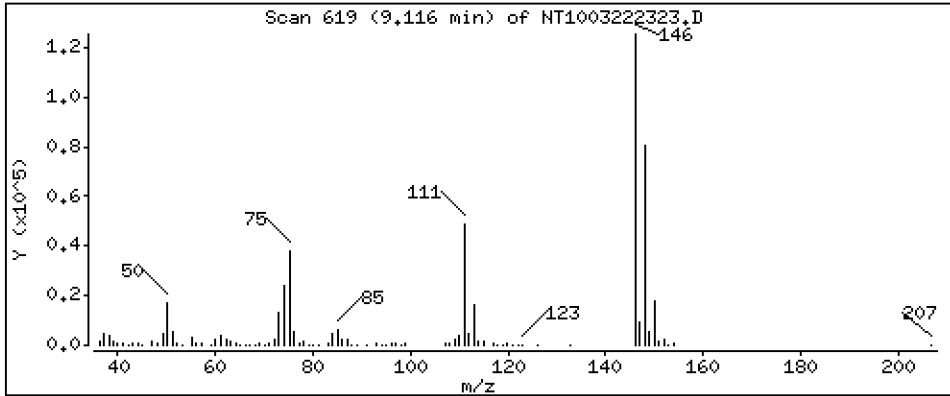
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 3,775 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

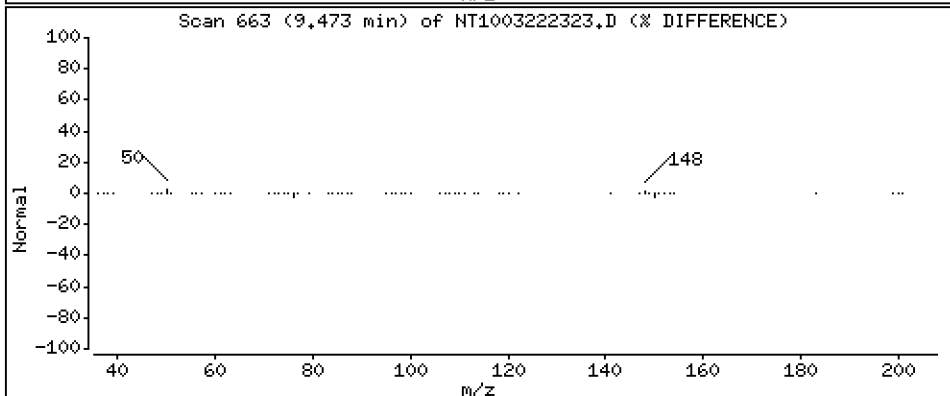
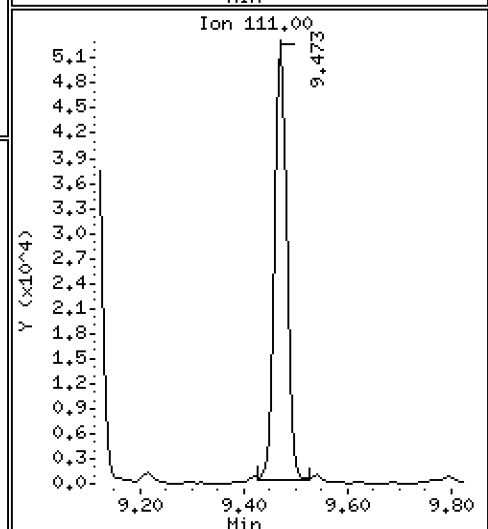
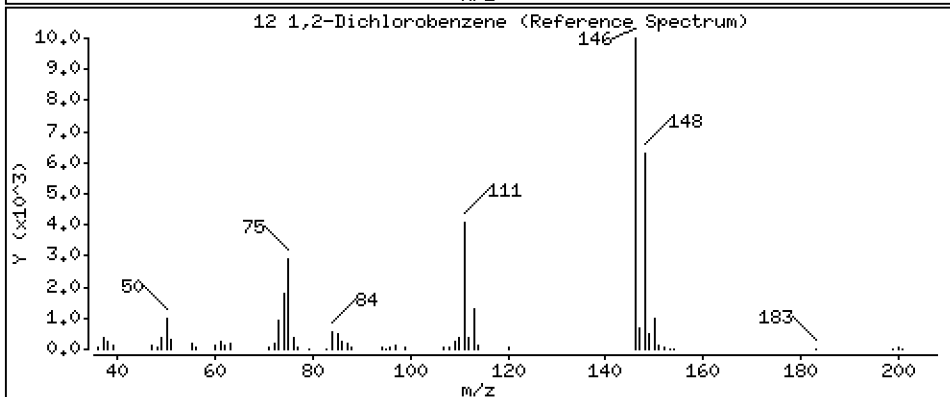
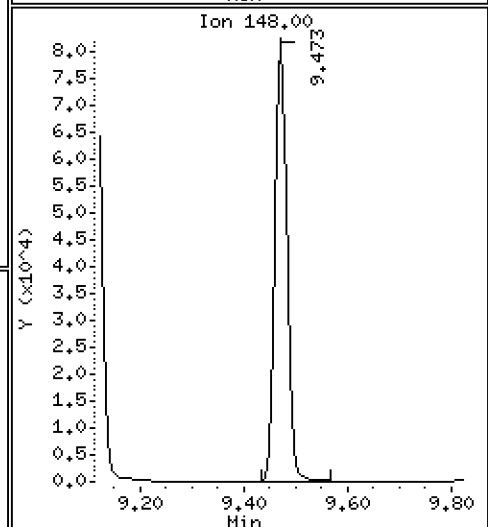
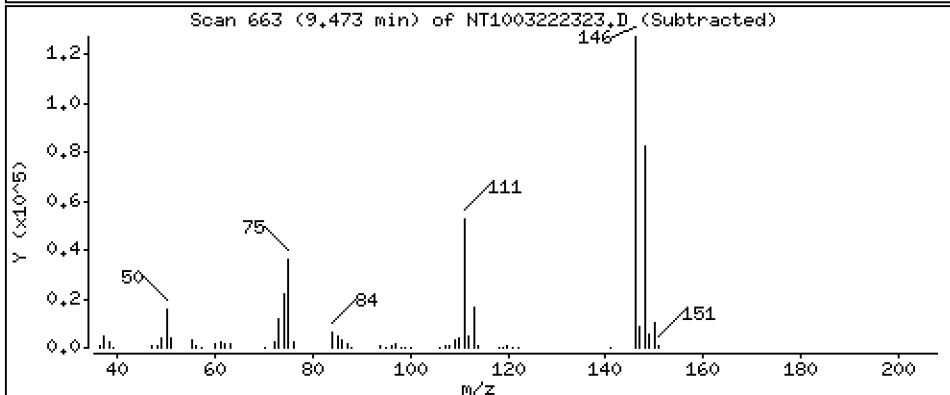
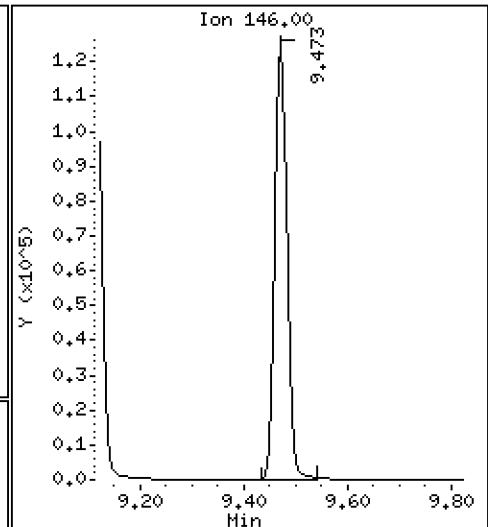
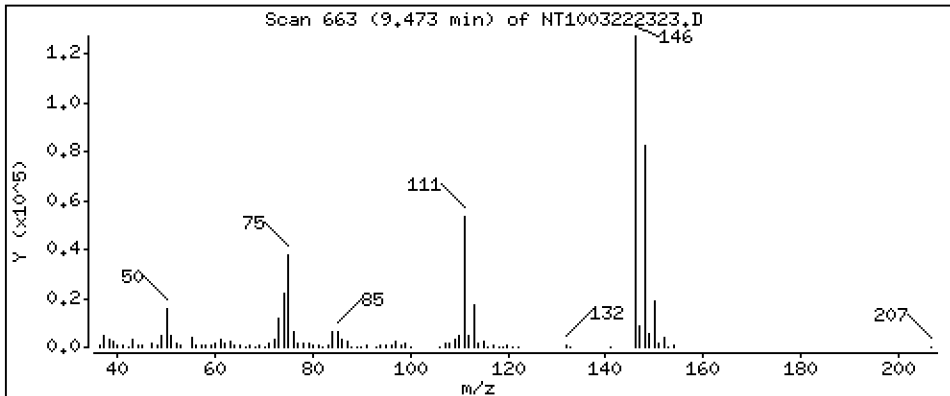
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 3,806 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

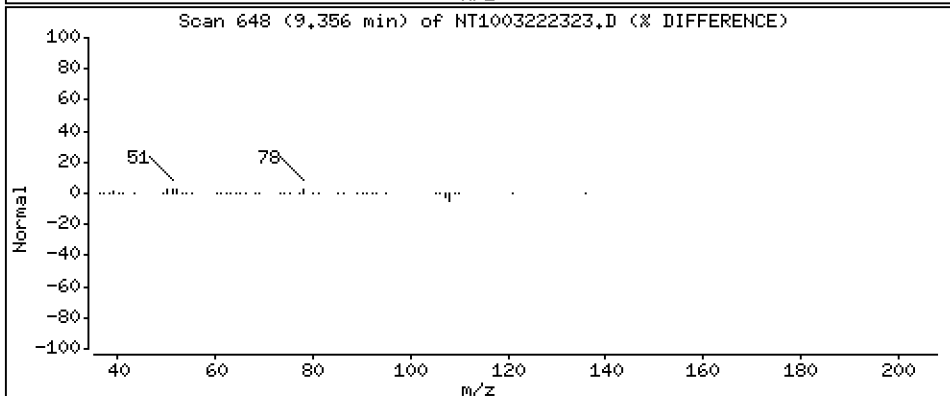
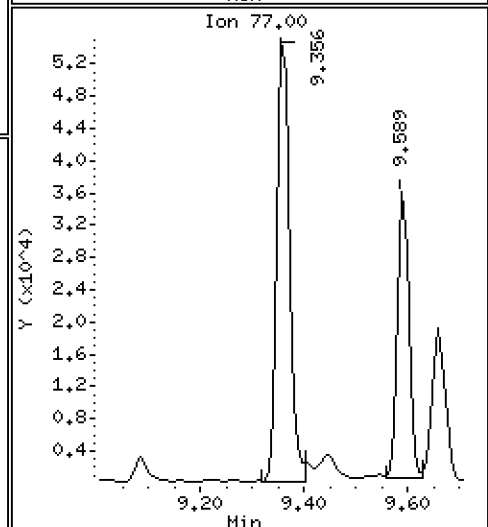
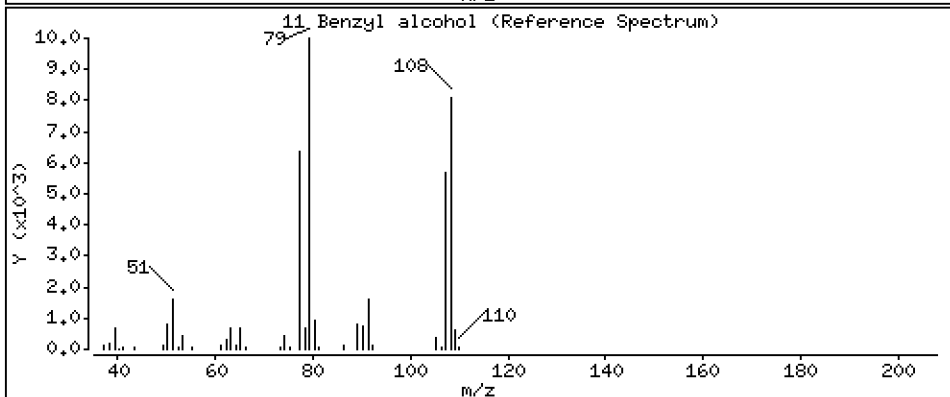
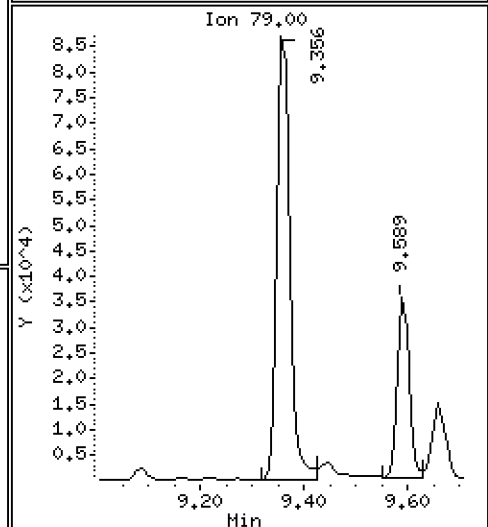
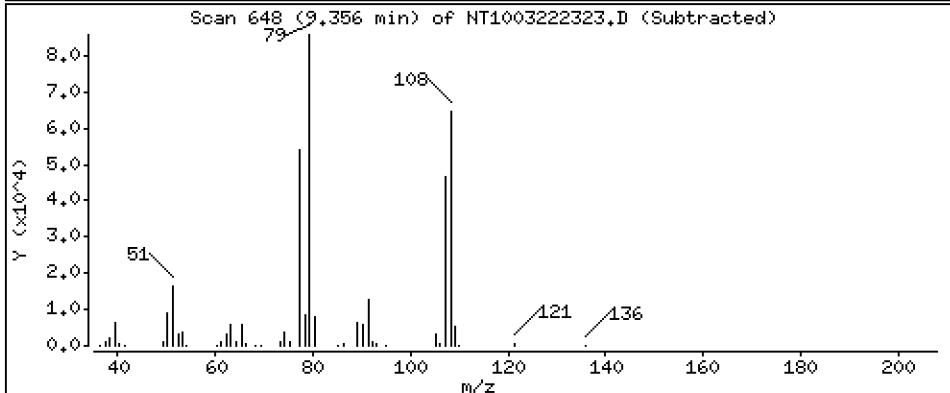
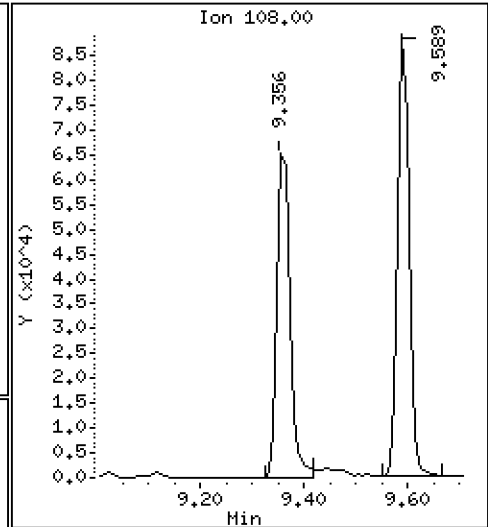
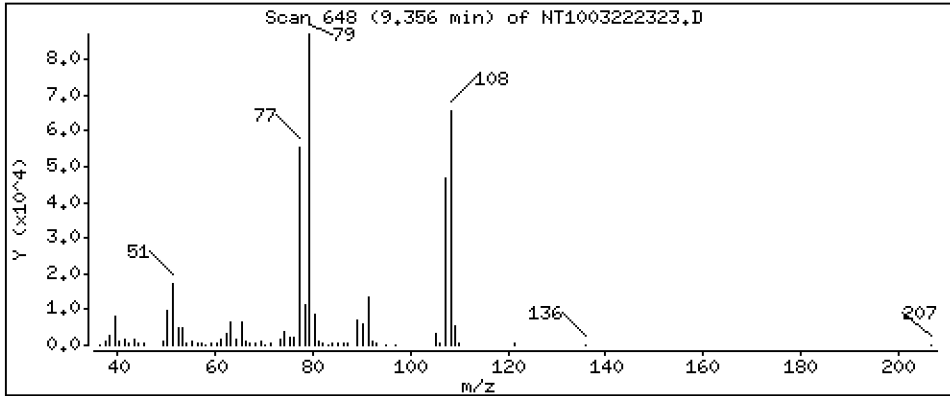
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 3,953 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

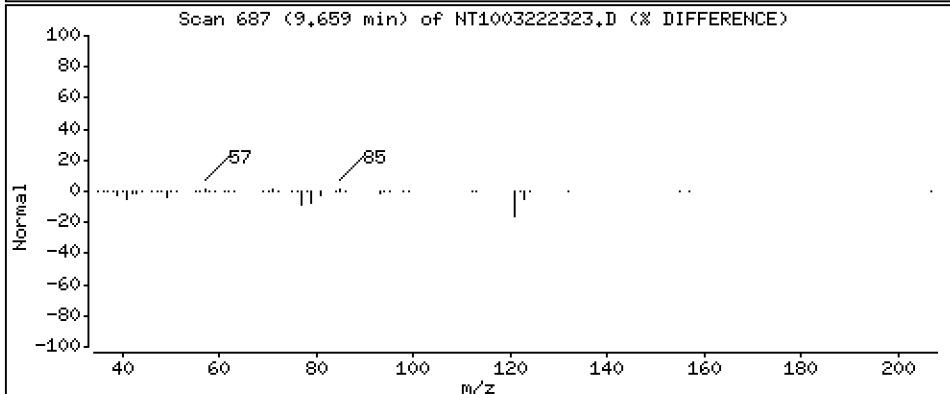
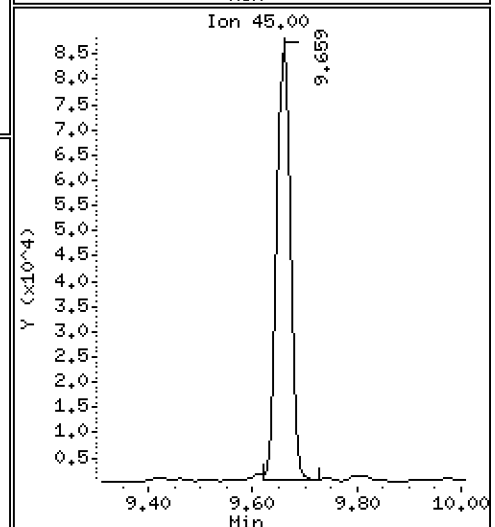
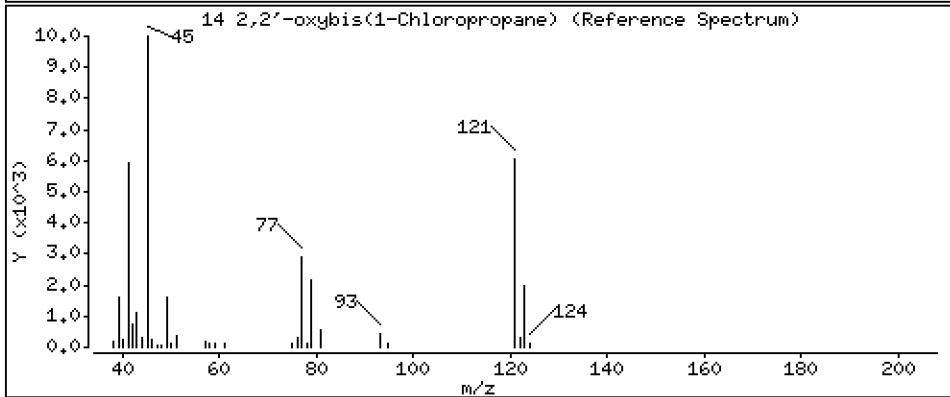
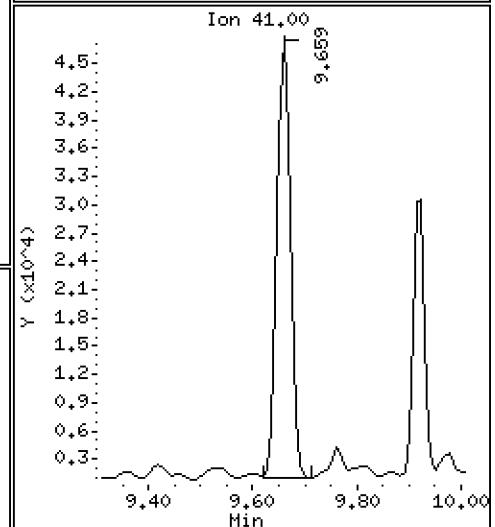
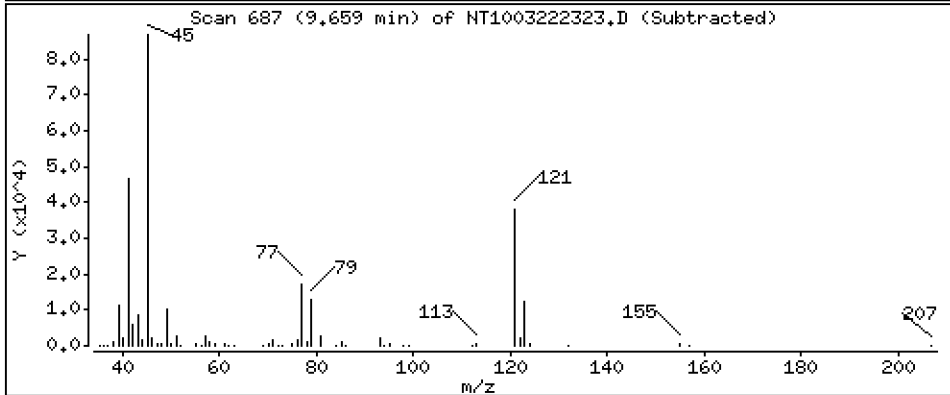
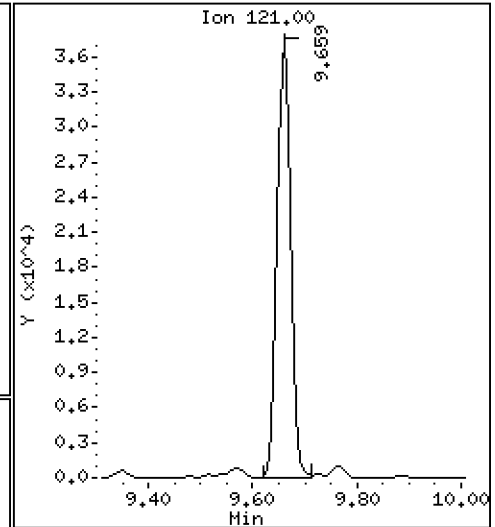
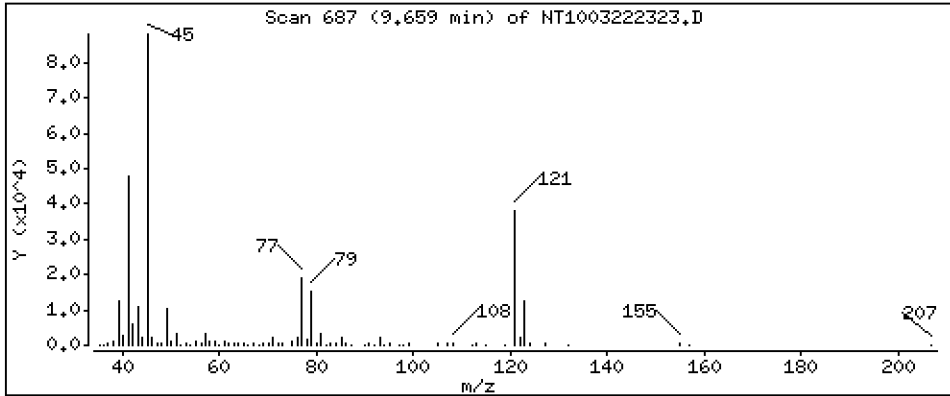
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 4,344 ug/mL





Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

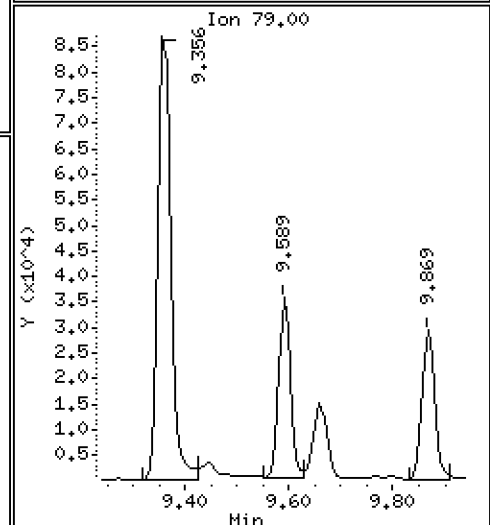
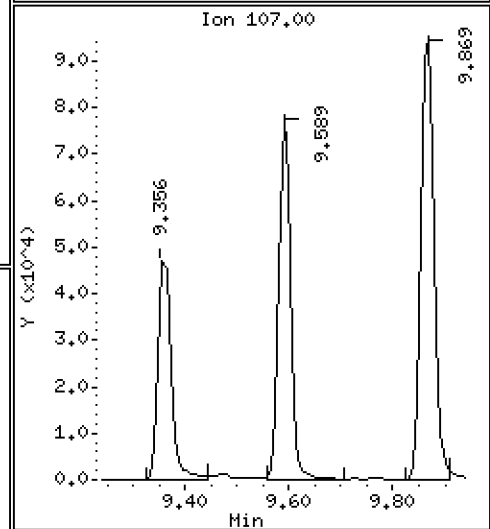
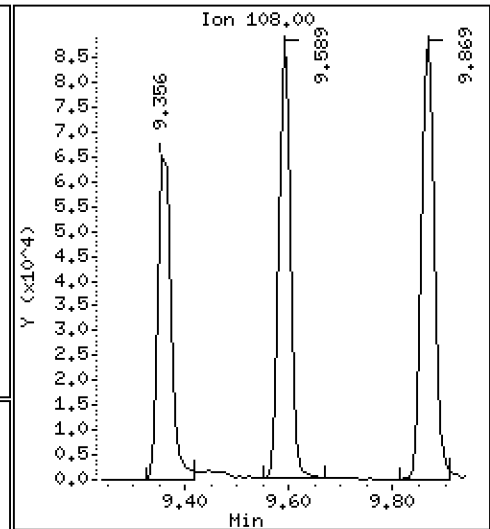
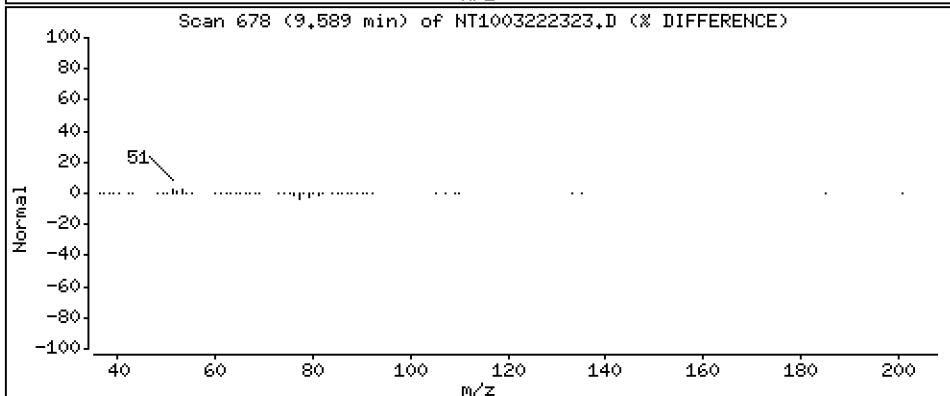
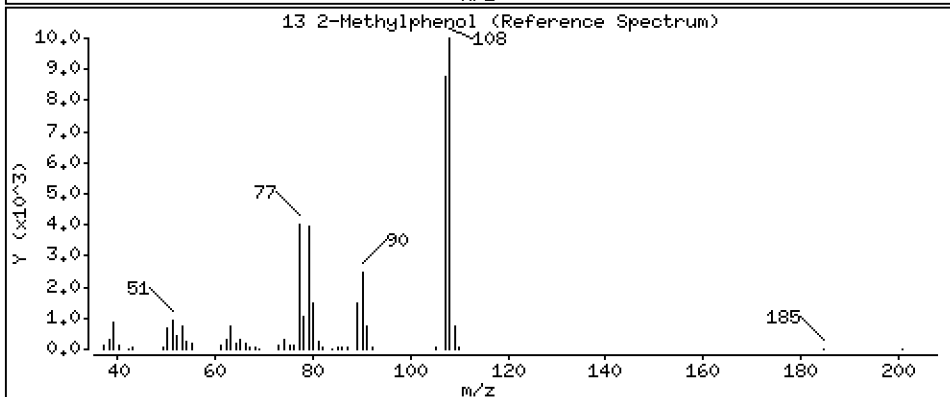
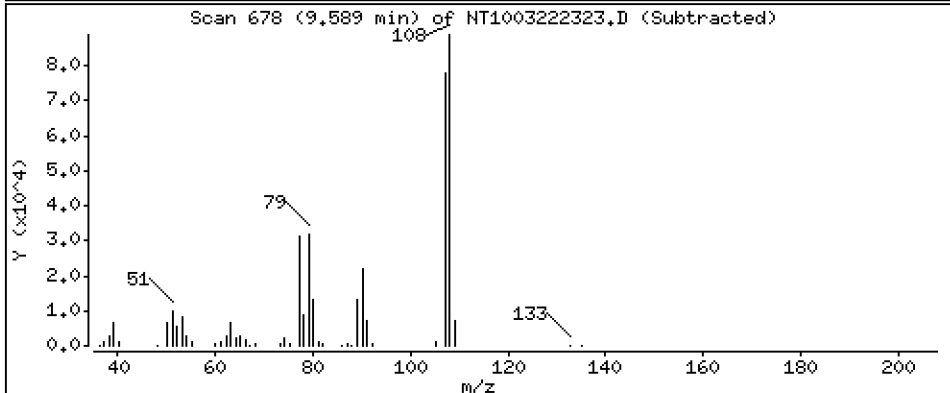
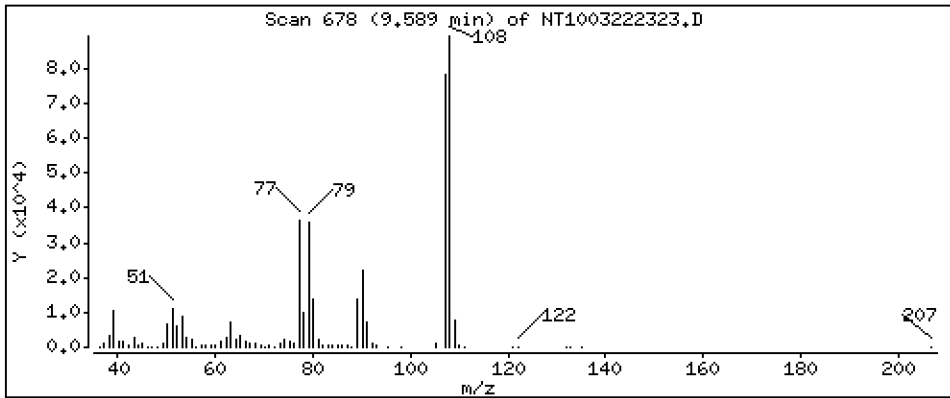
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 2.987 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

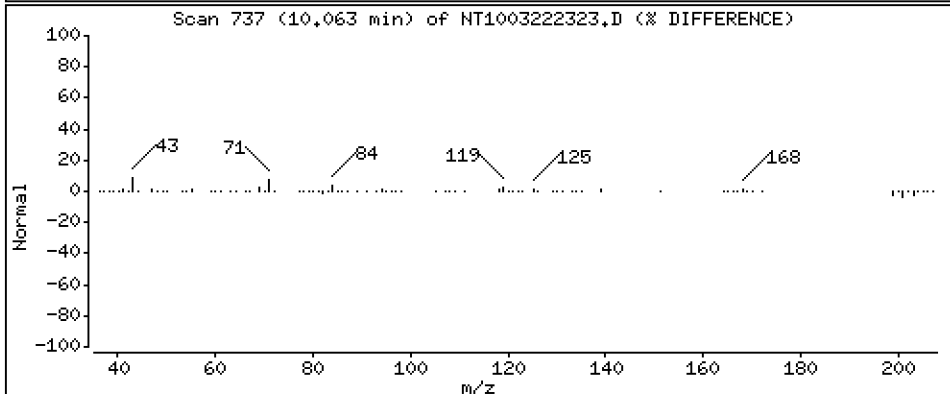
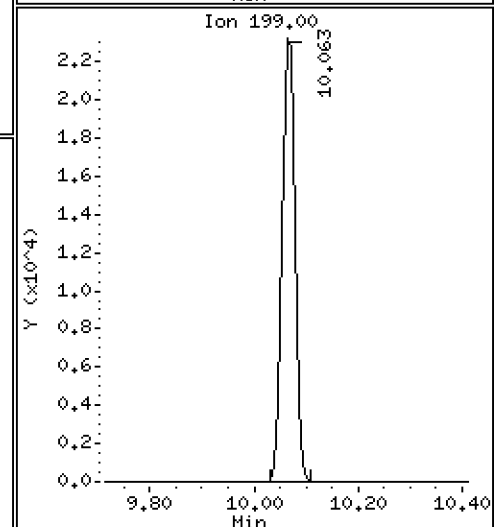
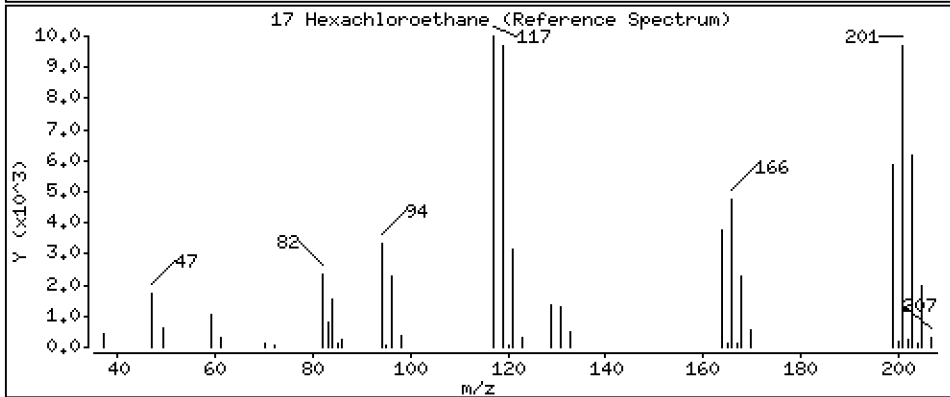
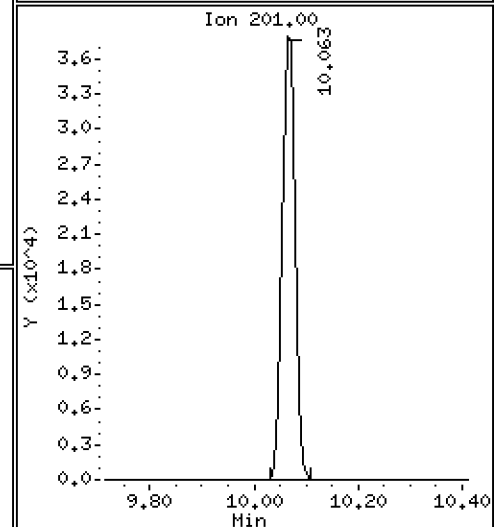
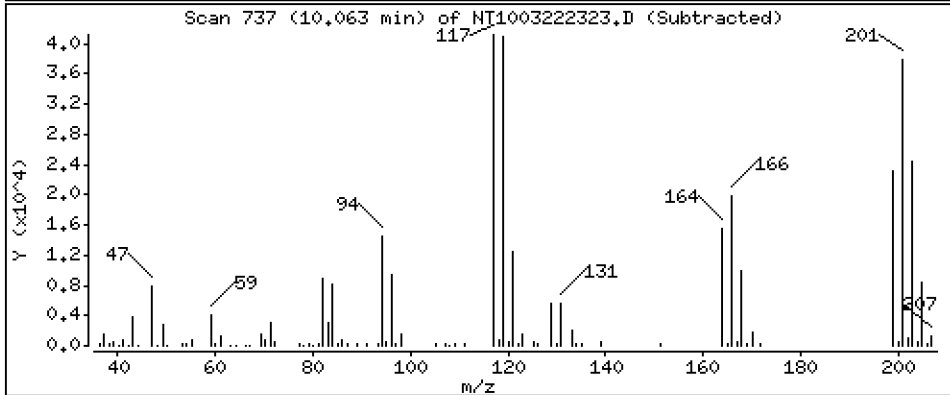
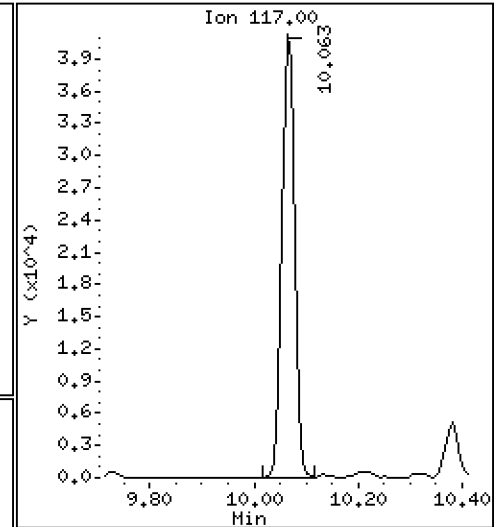
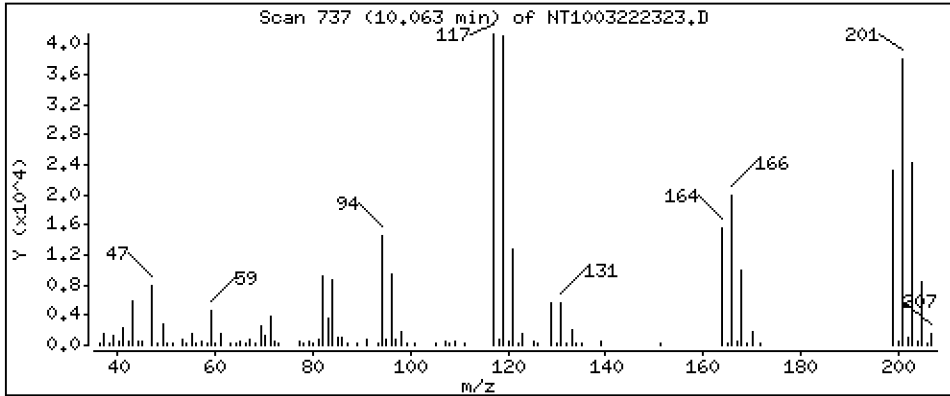
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 3,160 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

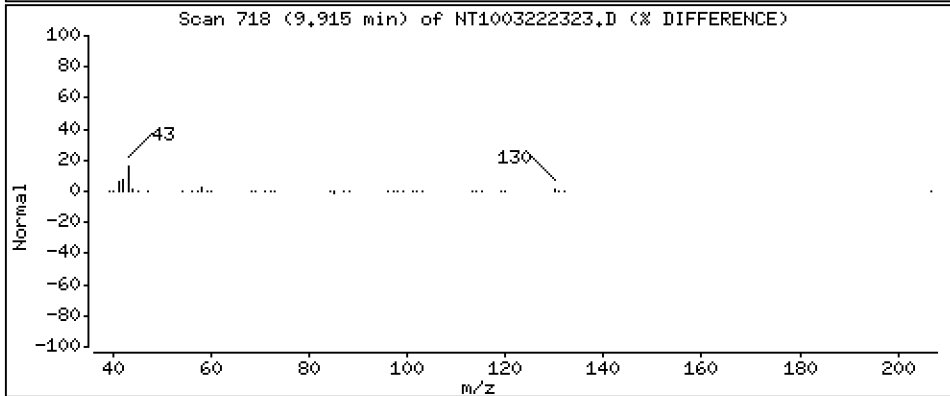
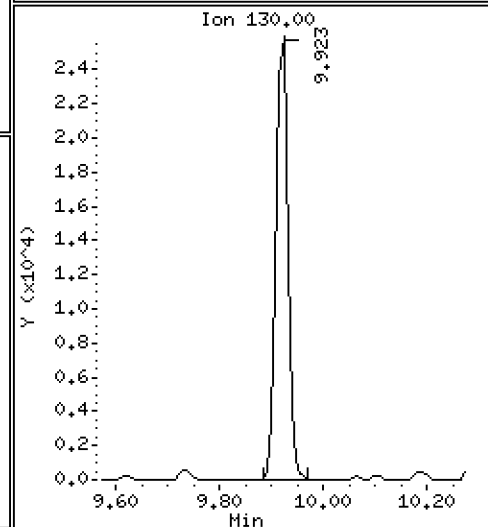
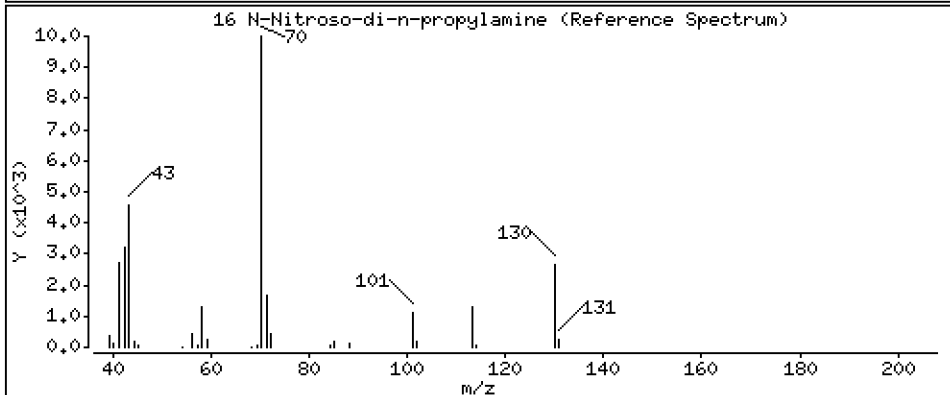
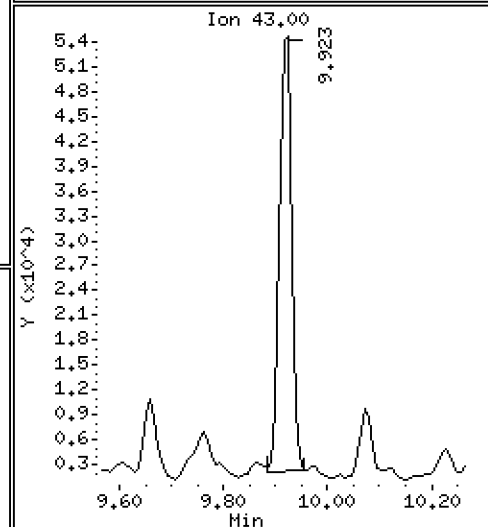
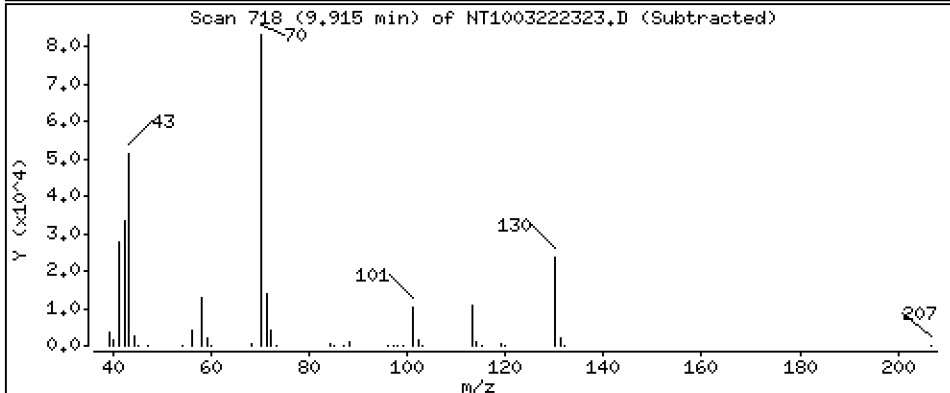
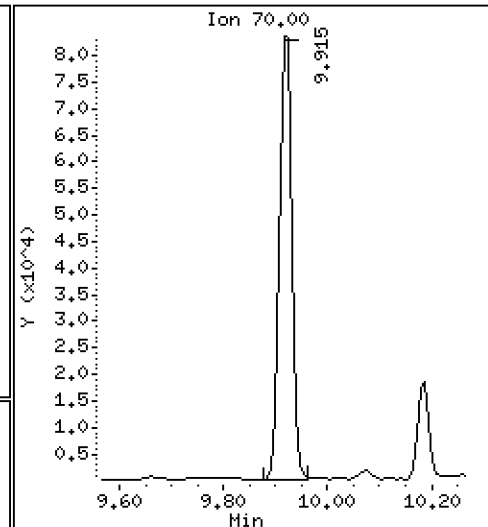
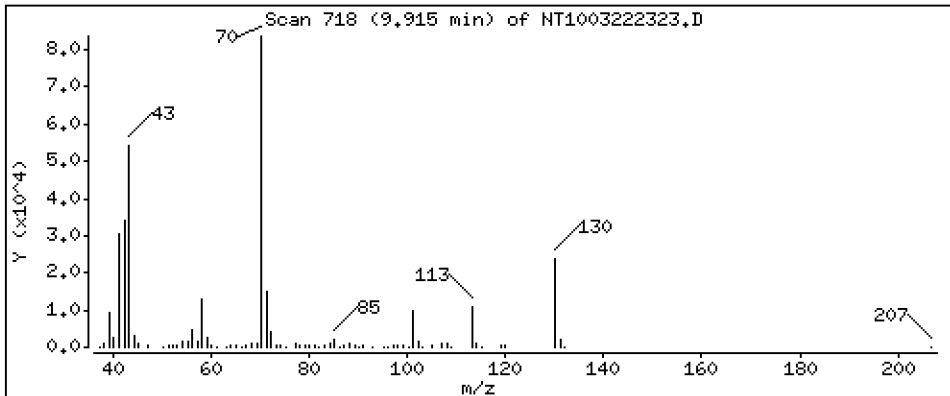
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 3,877 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

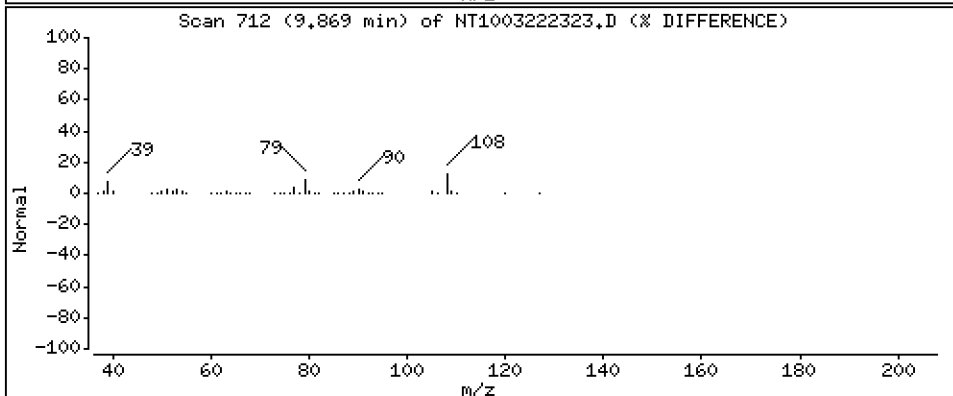
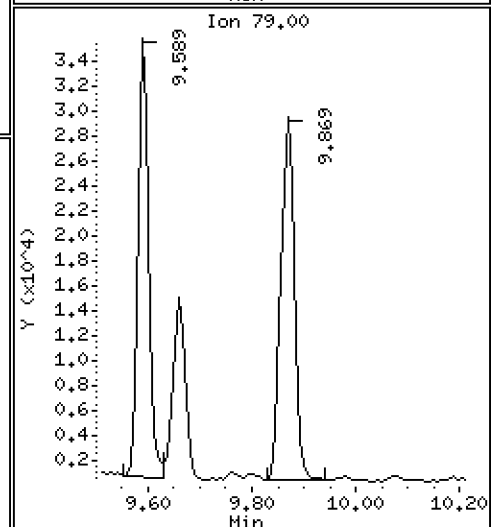
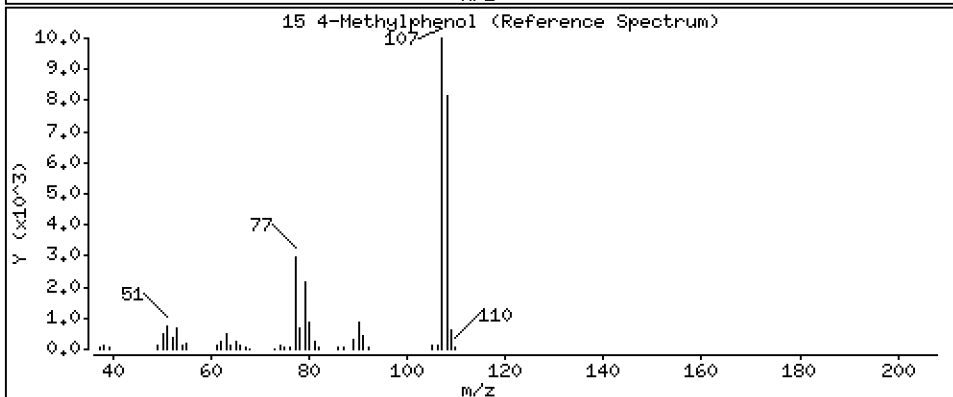
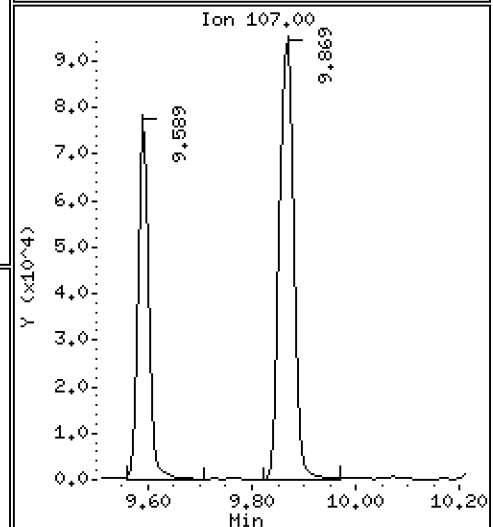
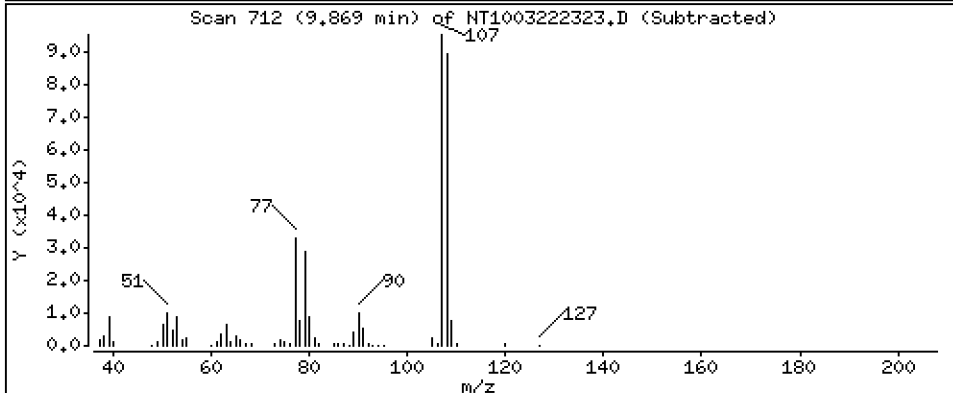
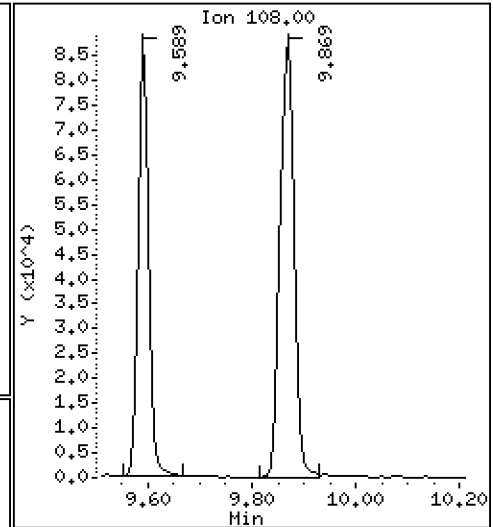
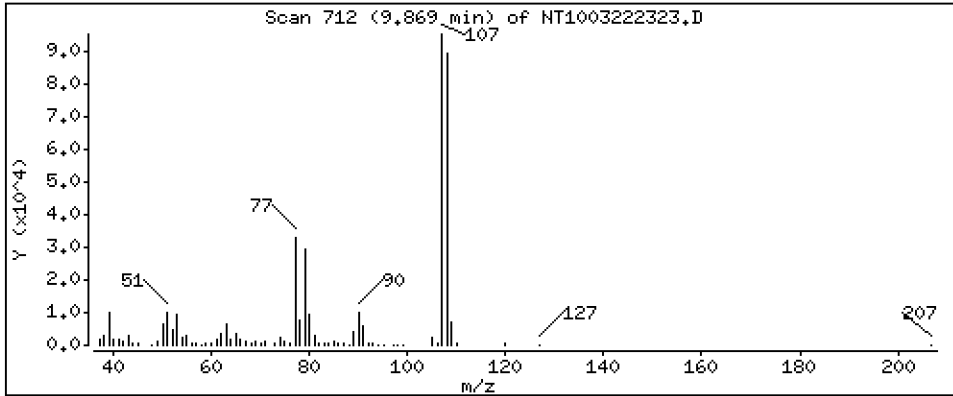
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 3,594 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

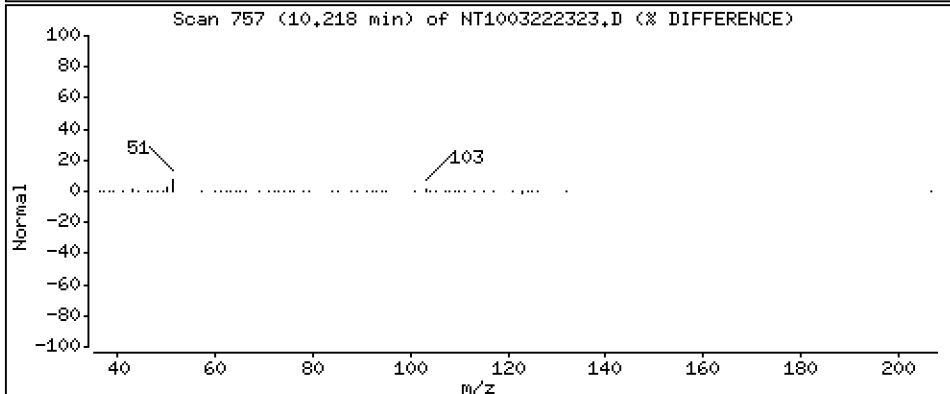
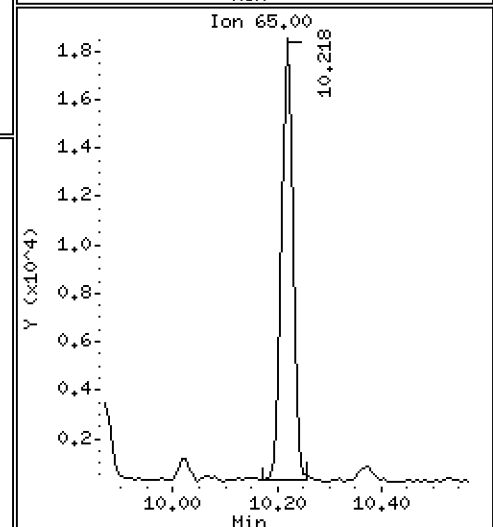
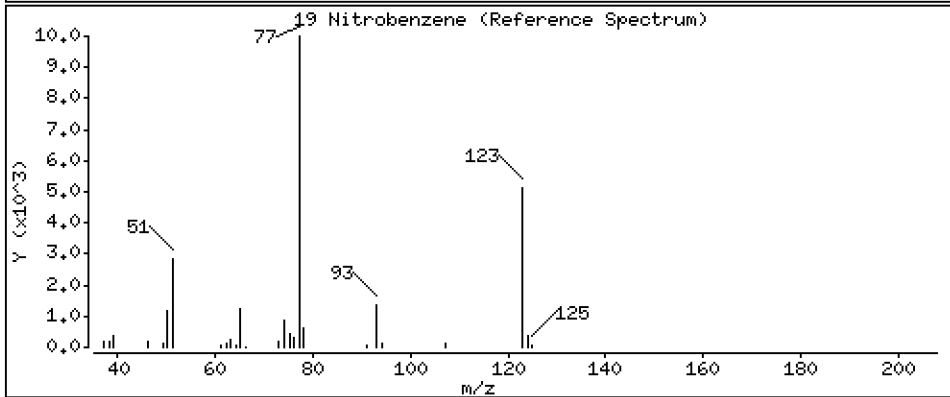
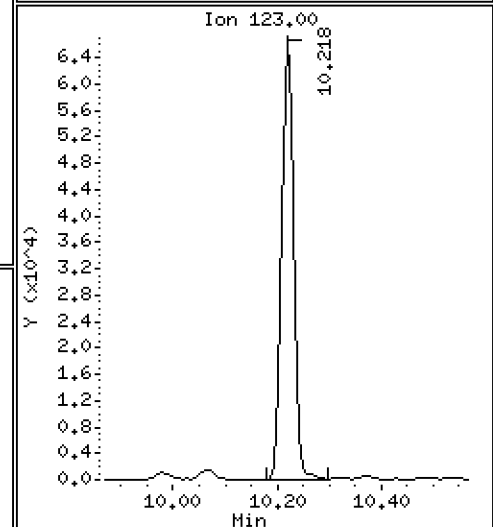
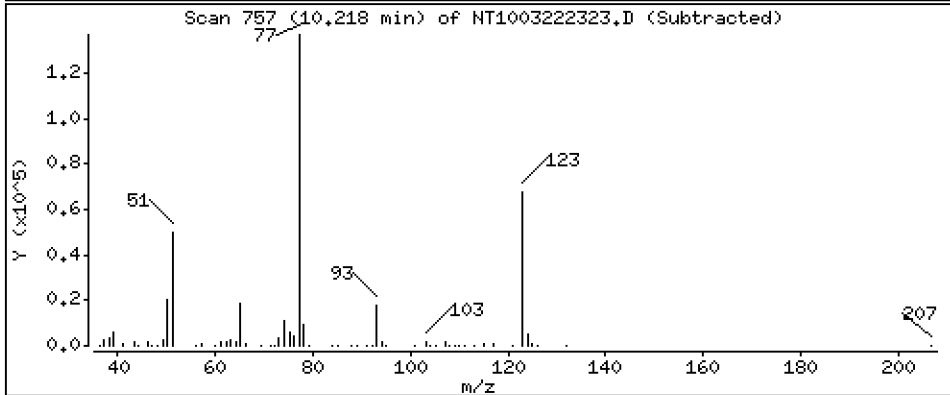
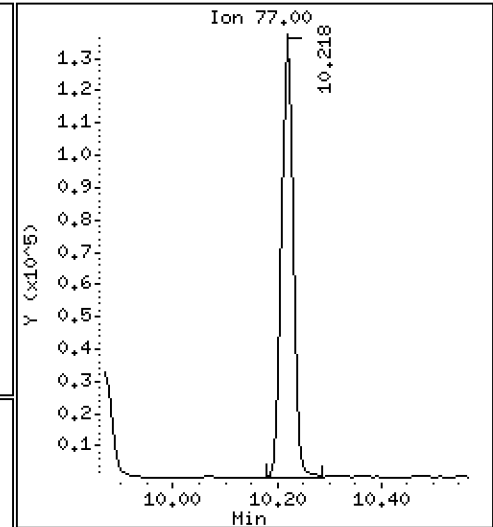
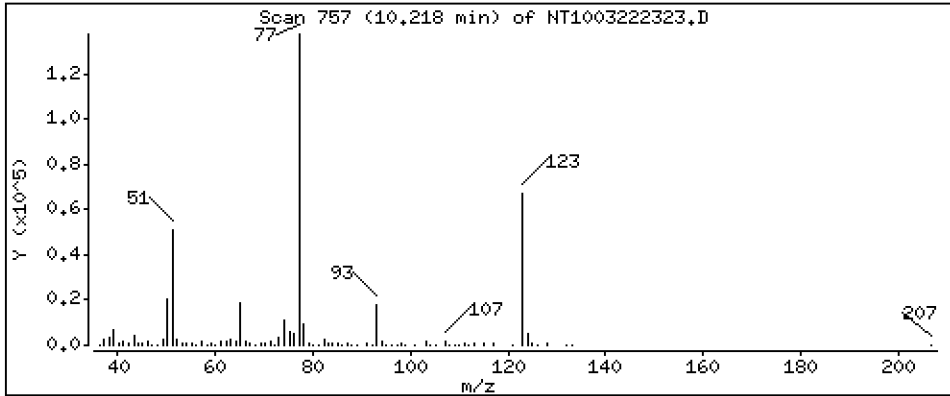
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 3,802 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

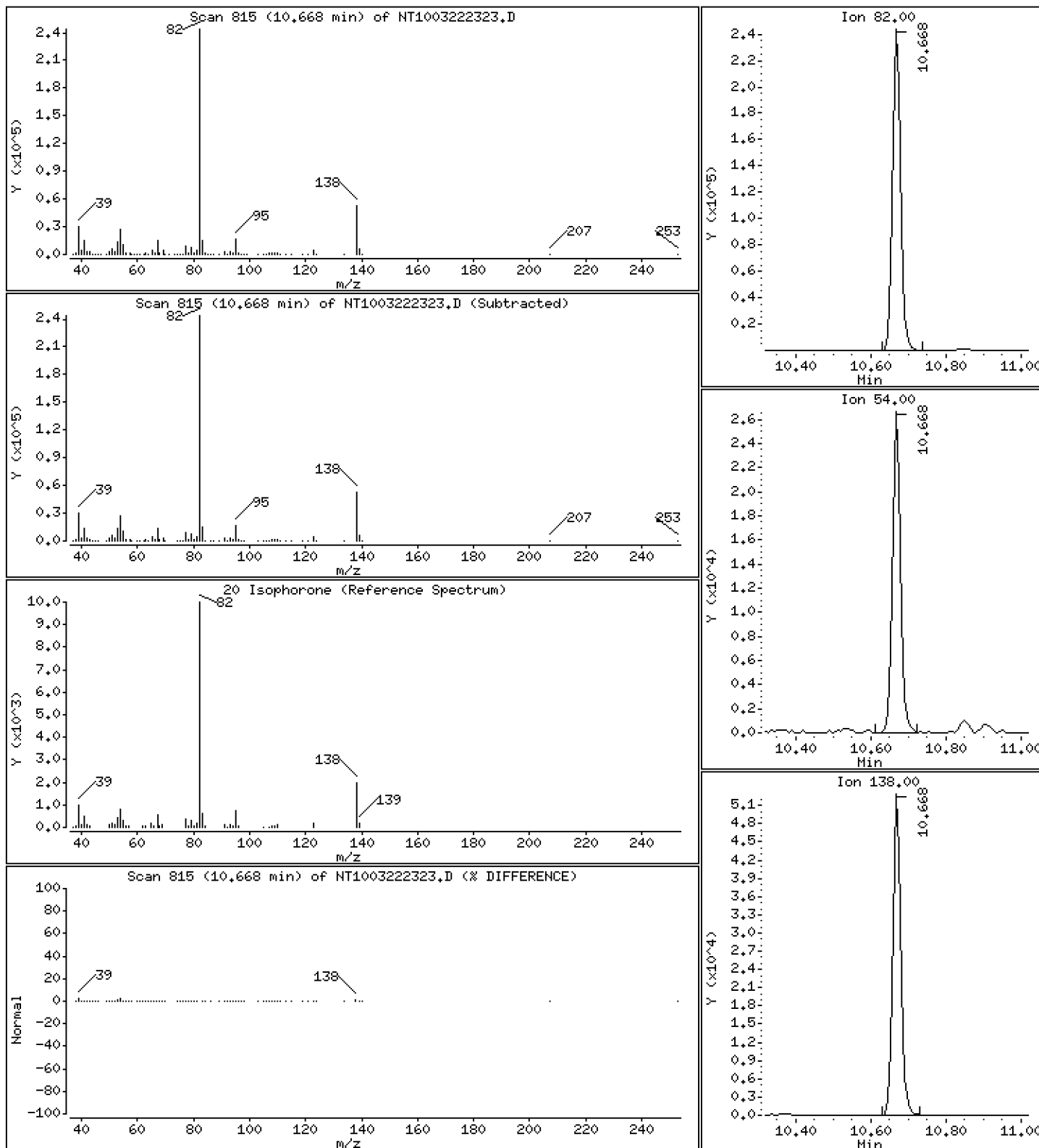
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 5,574 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

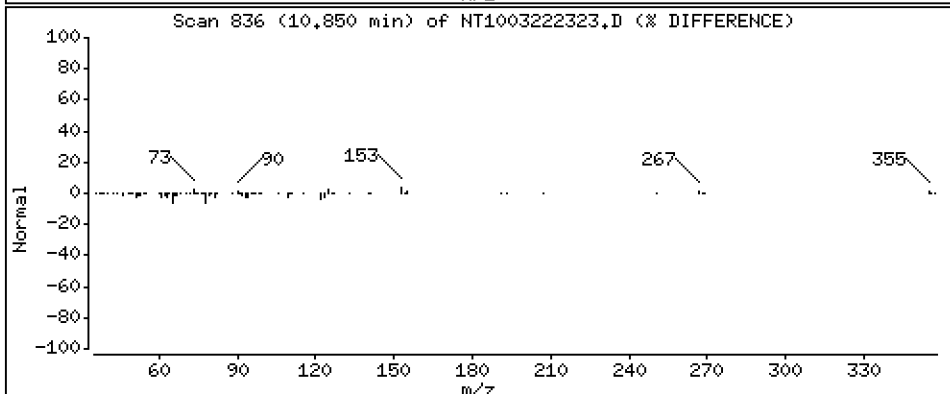
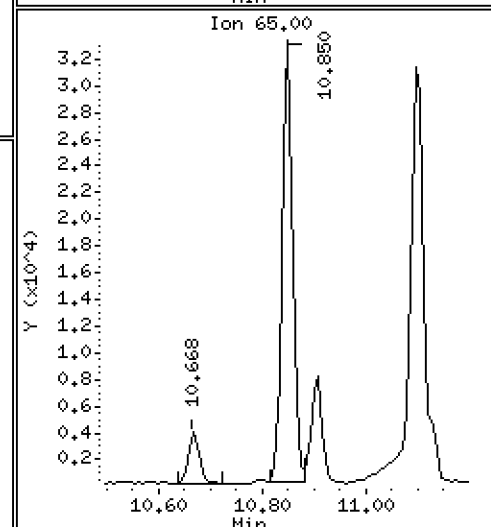
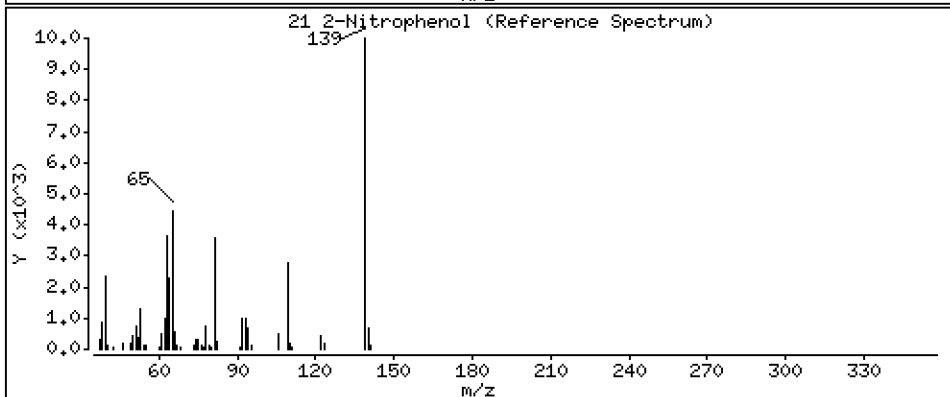
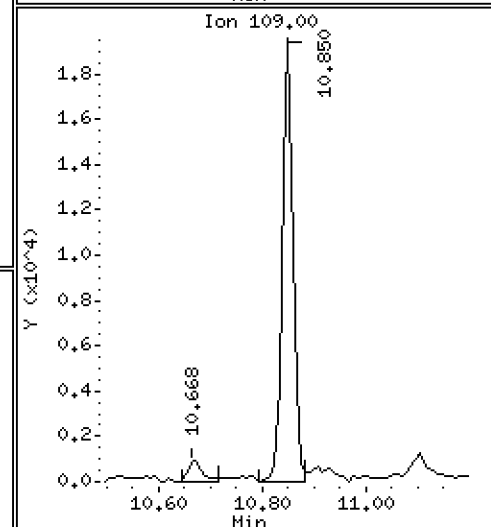
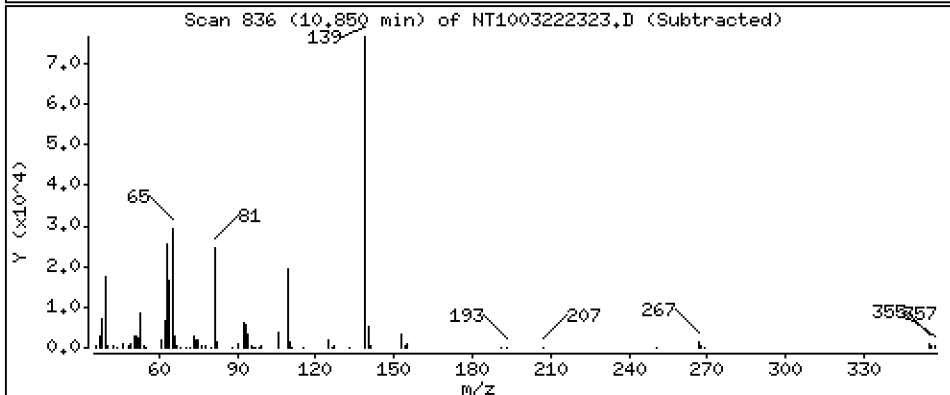
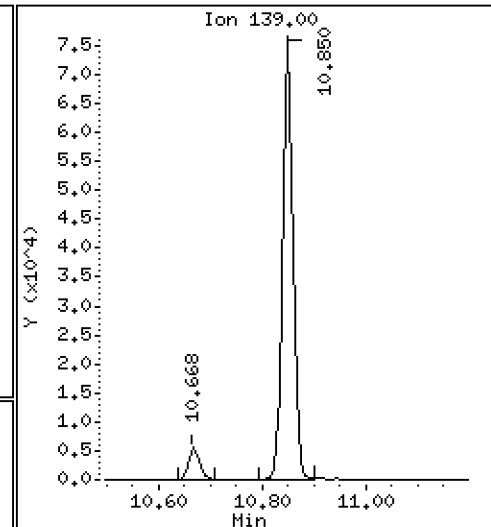
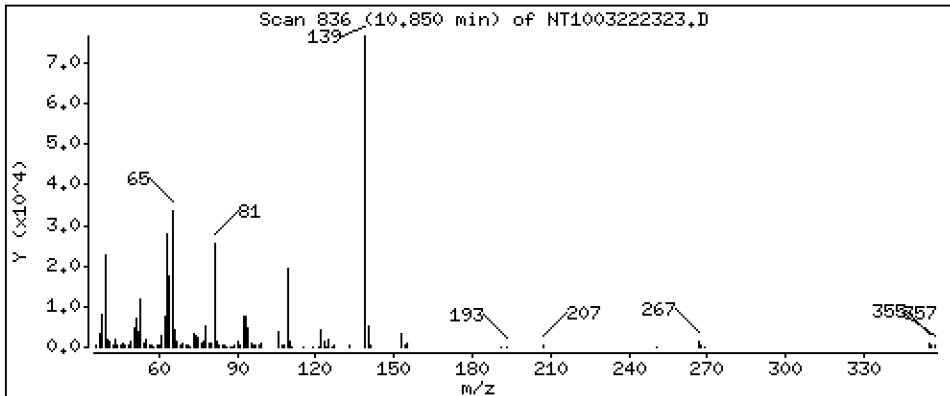
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,975 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

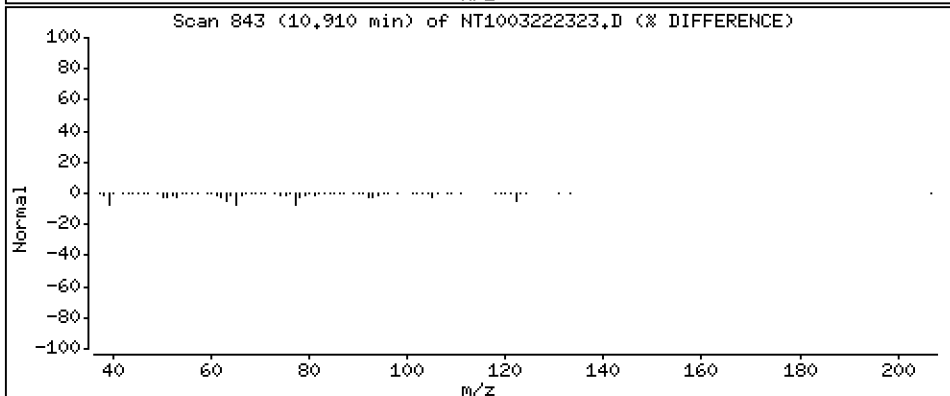
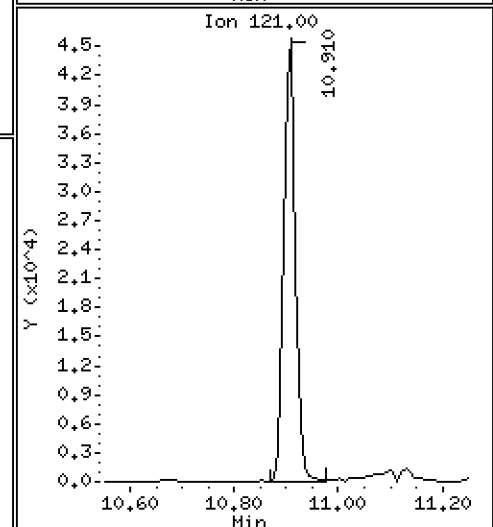
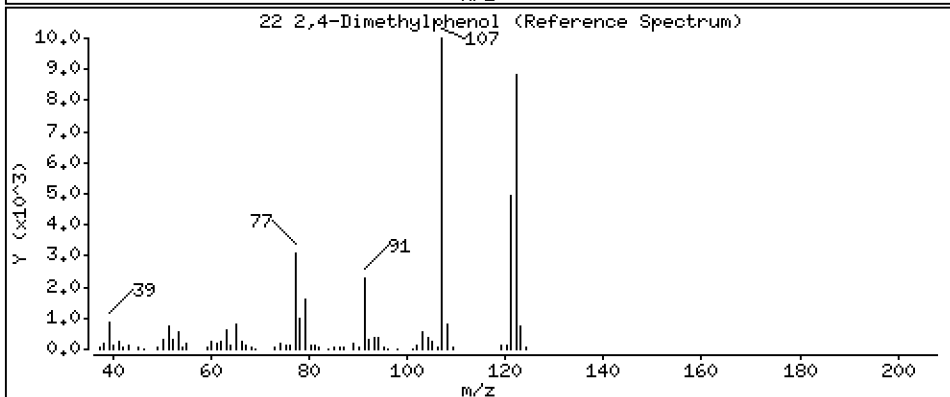
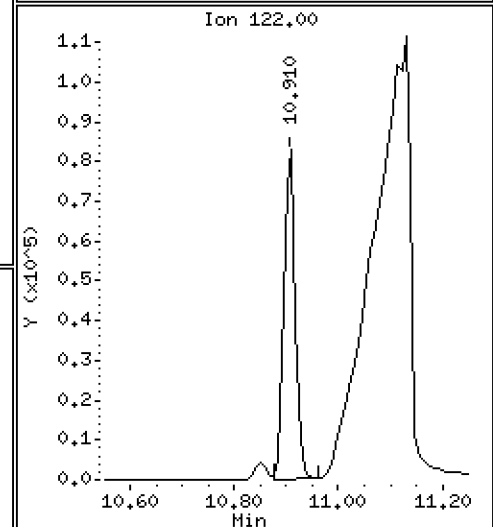
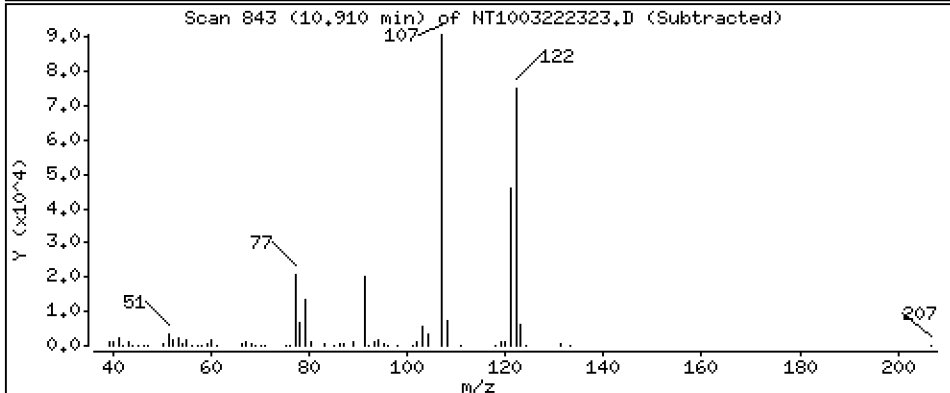
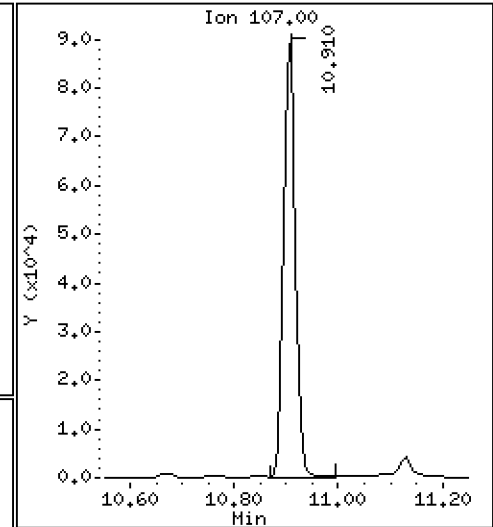
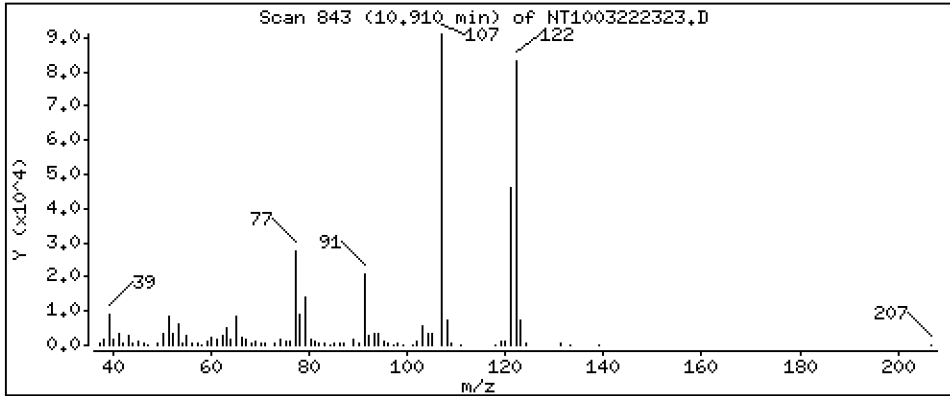
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 2,904 ug/mL





Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

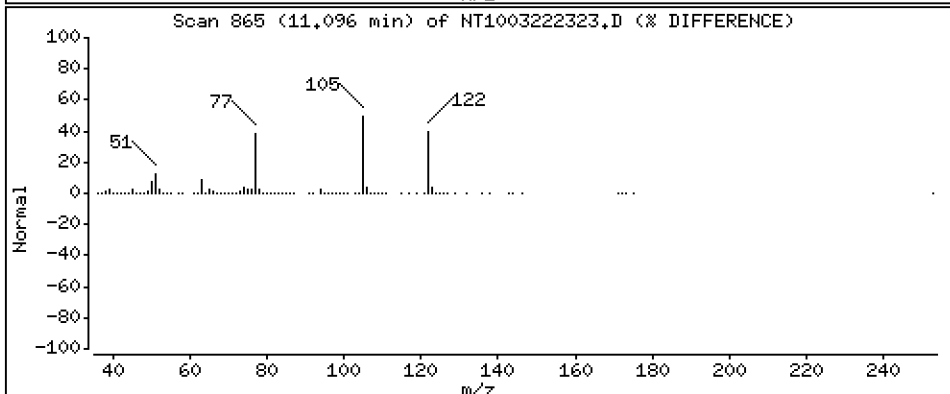
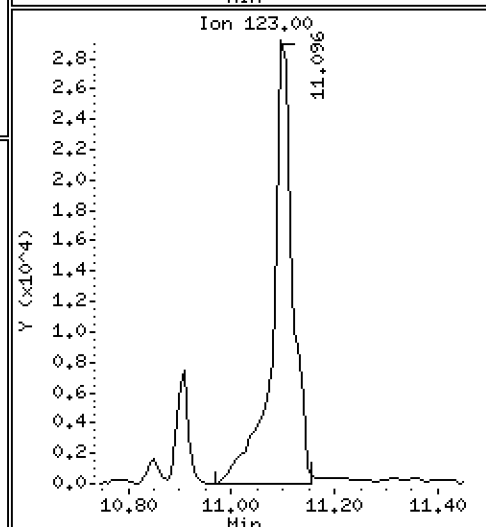
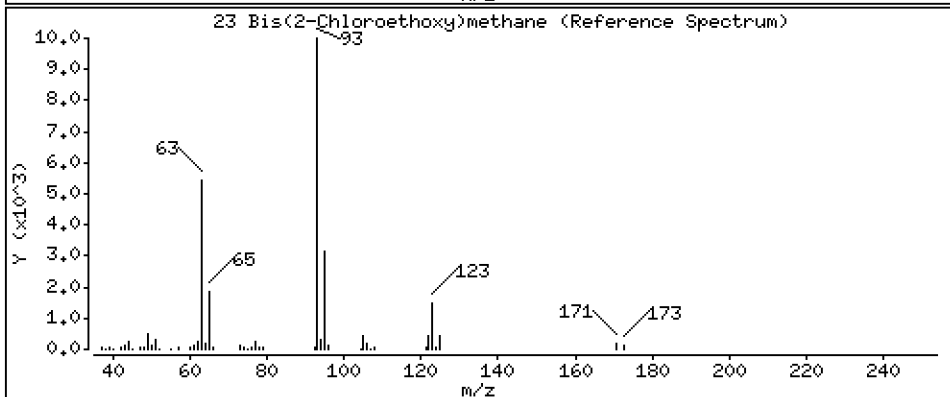
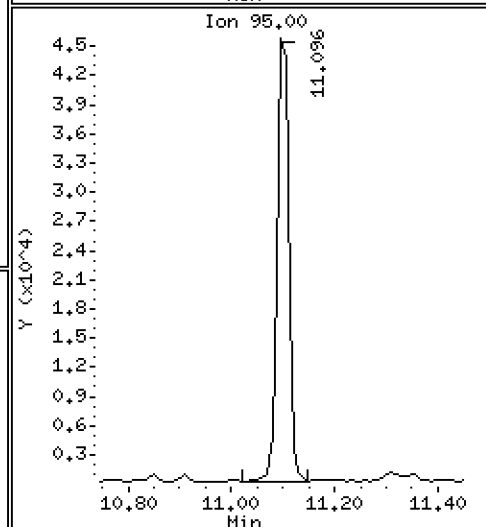
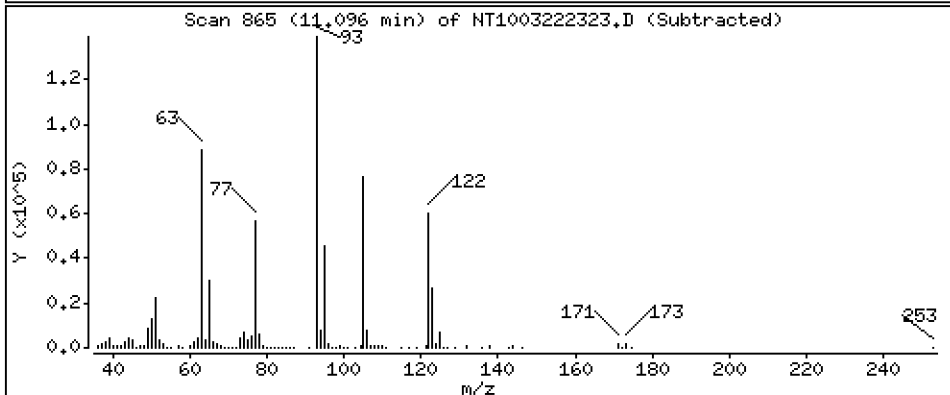
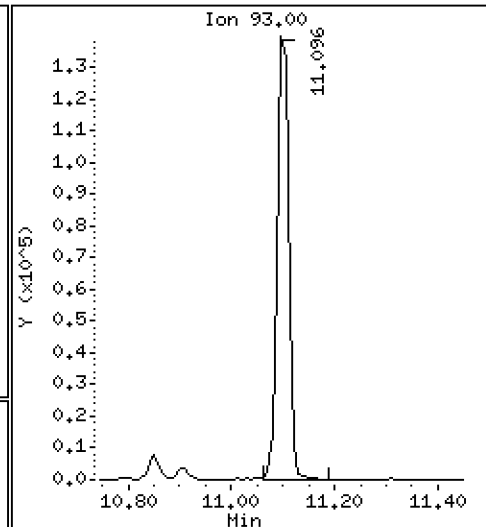
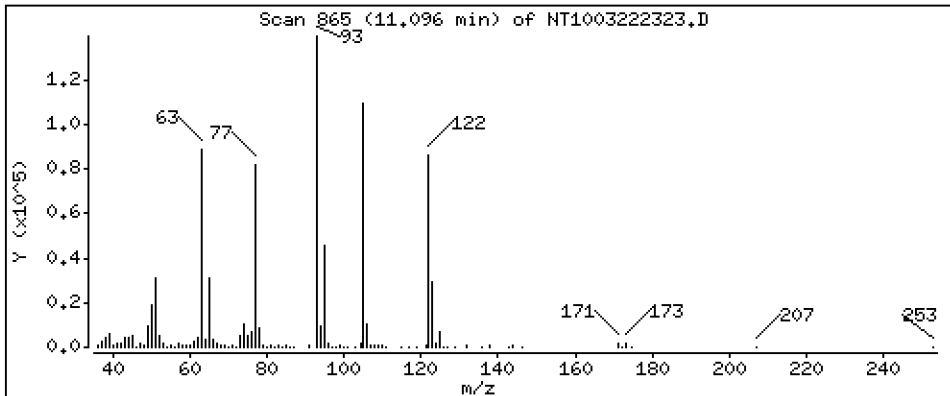
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 4,772 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

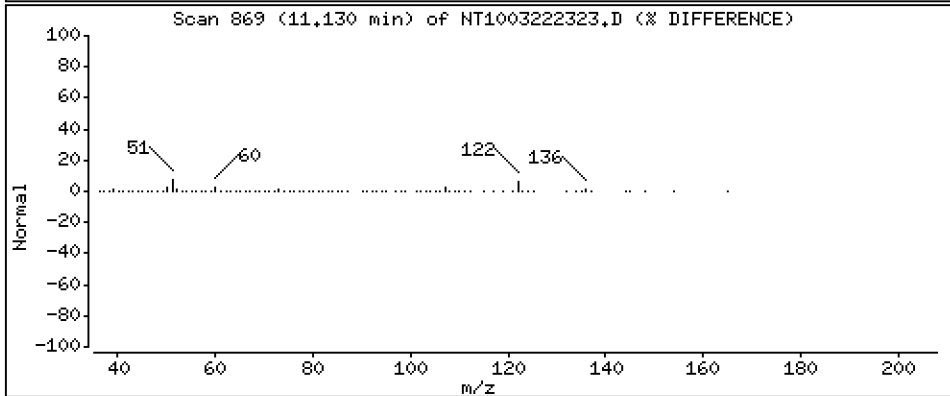
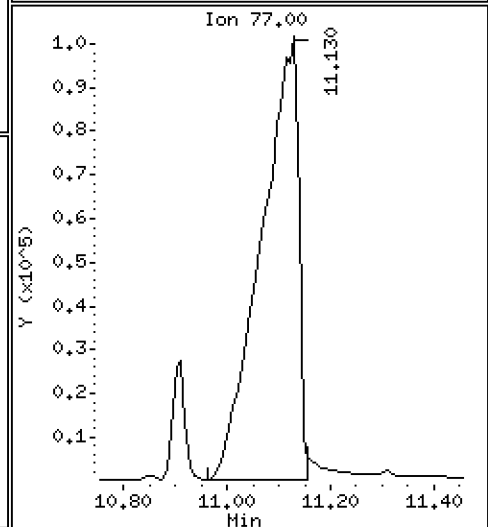
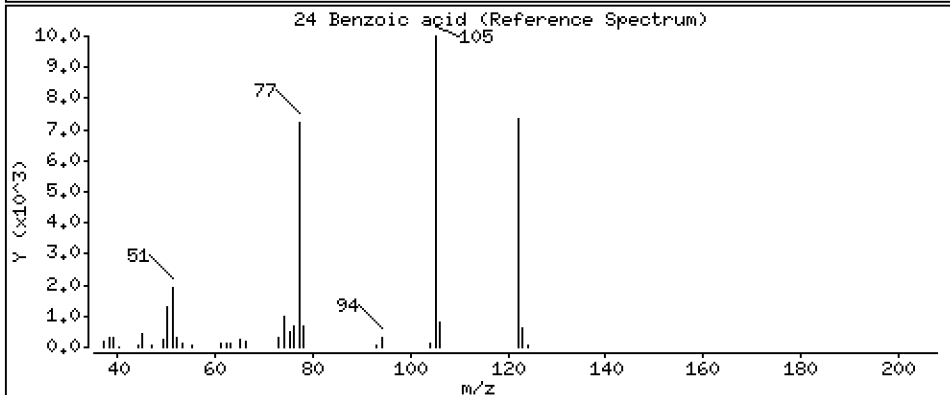
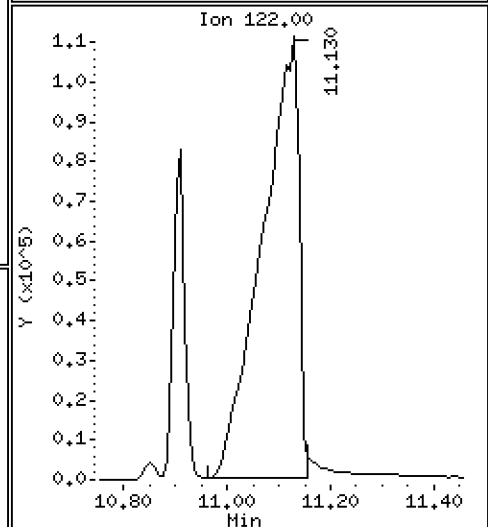
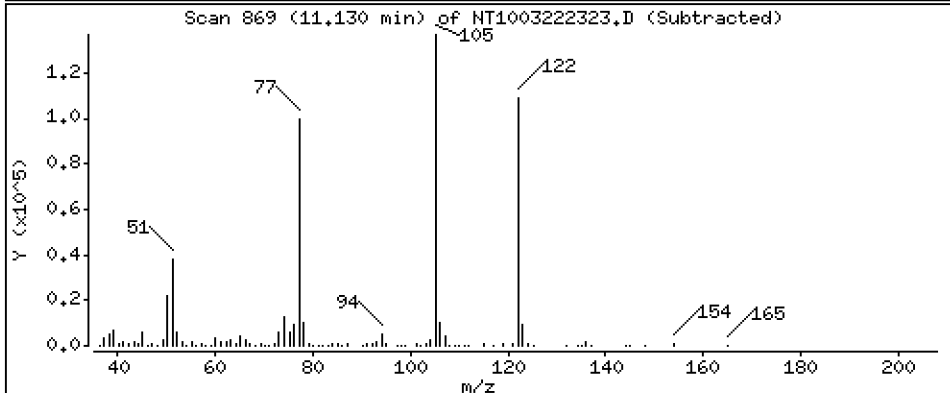
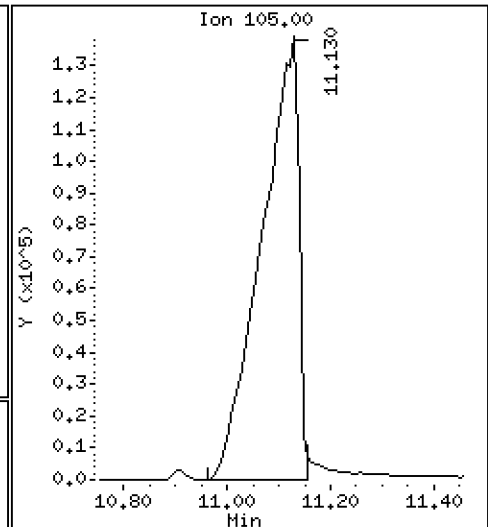
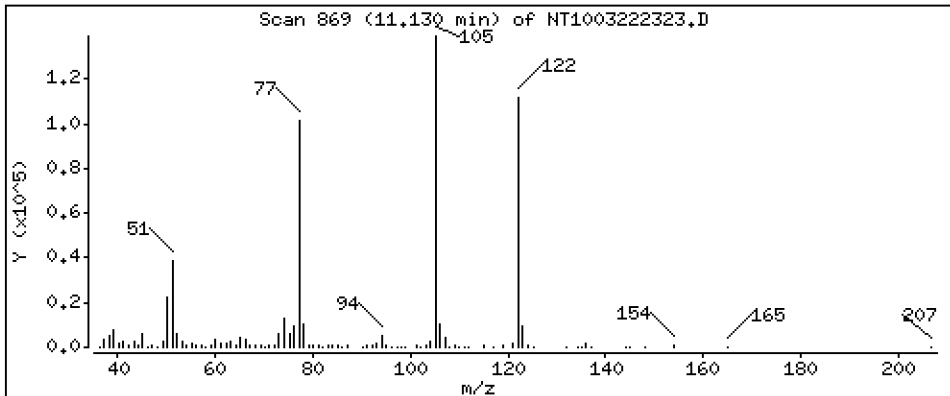
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 24,05 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

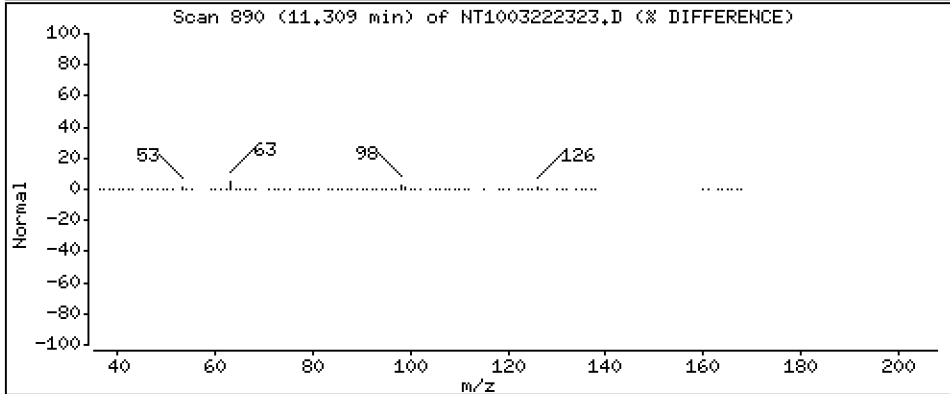
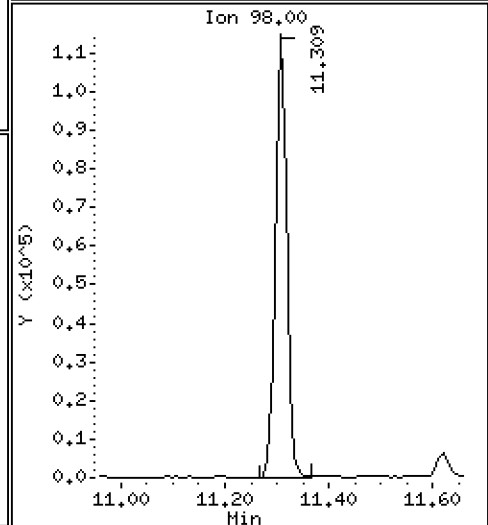
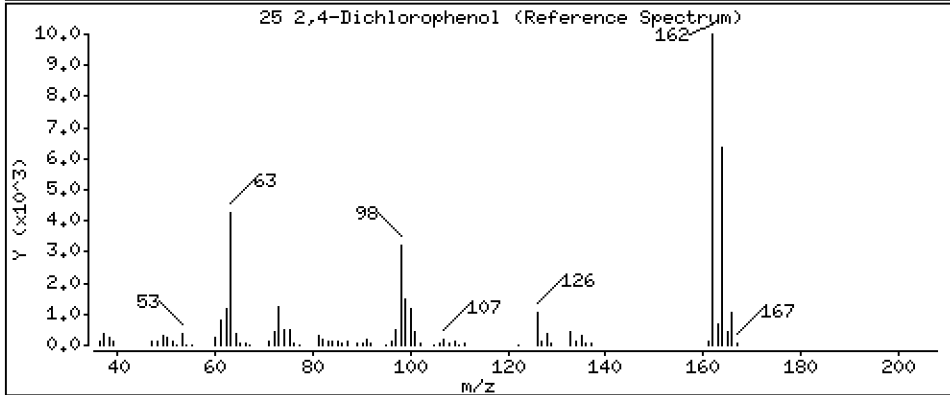
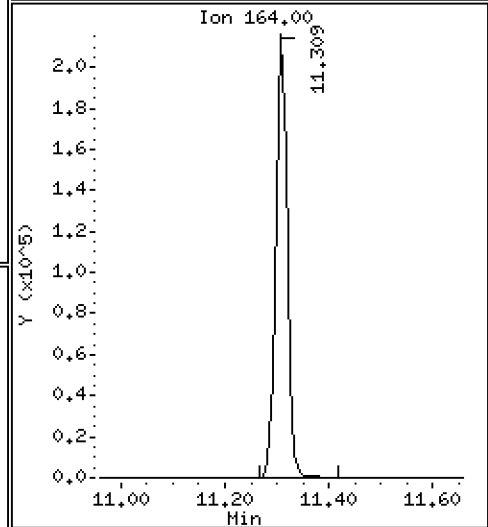
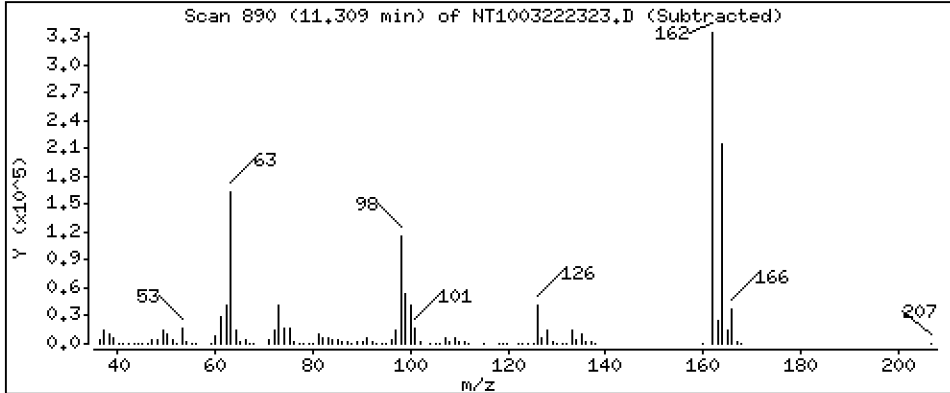
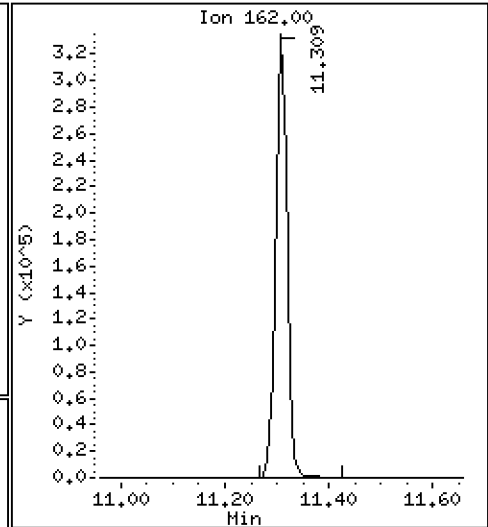
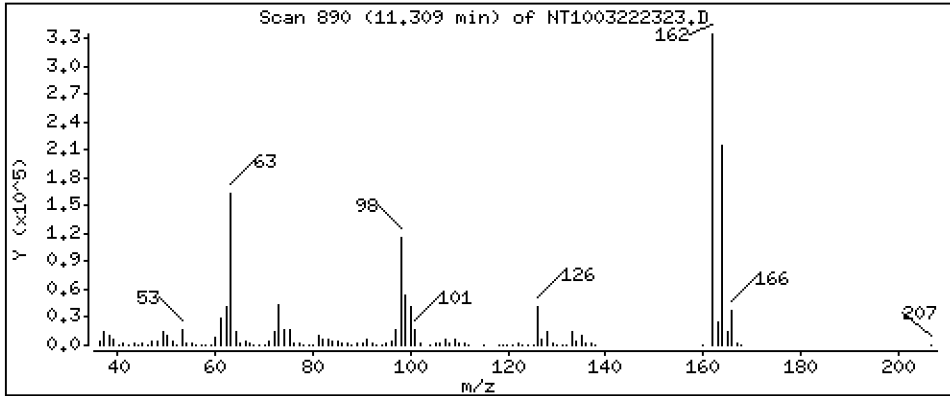
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 14,29 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

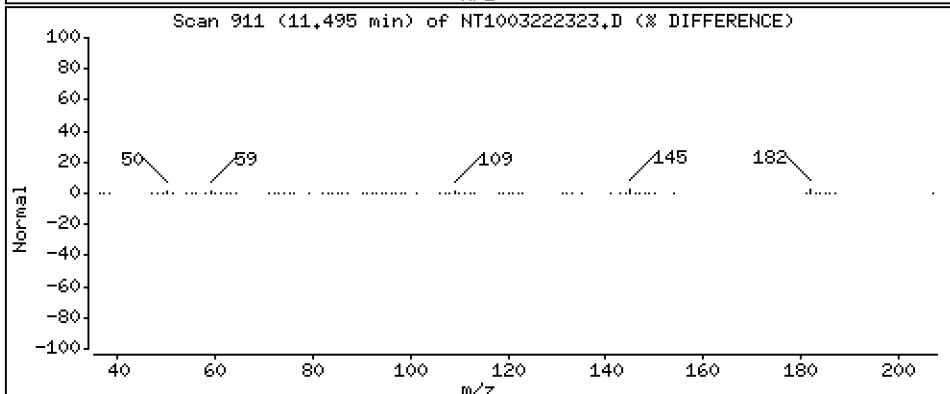
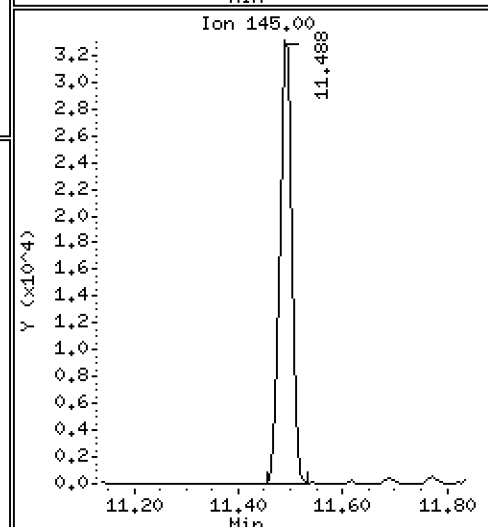
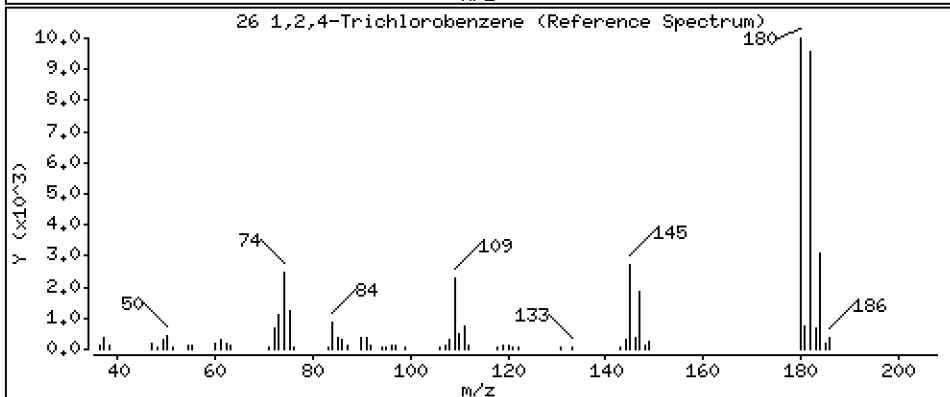
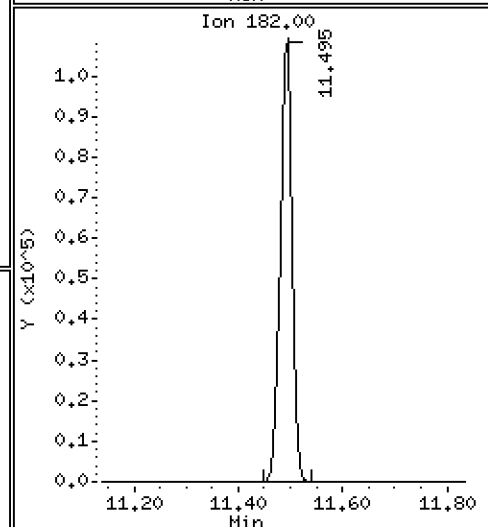
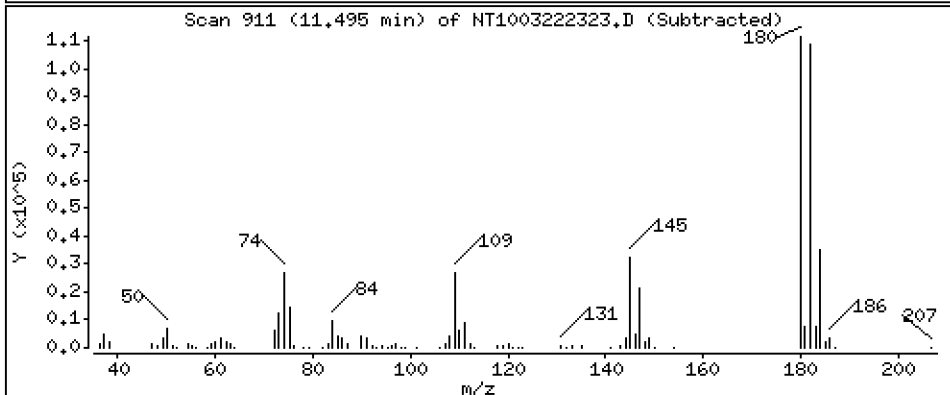
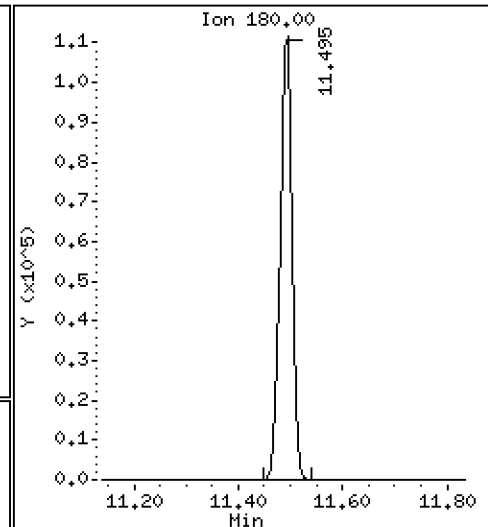
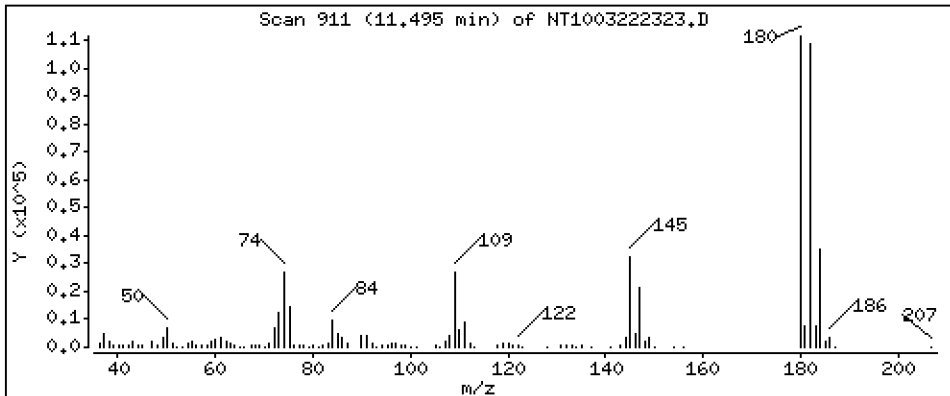
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 3,907 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

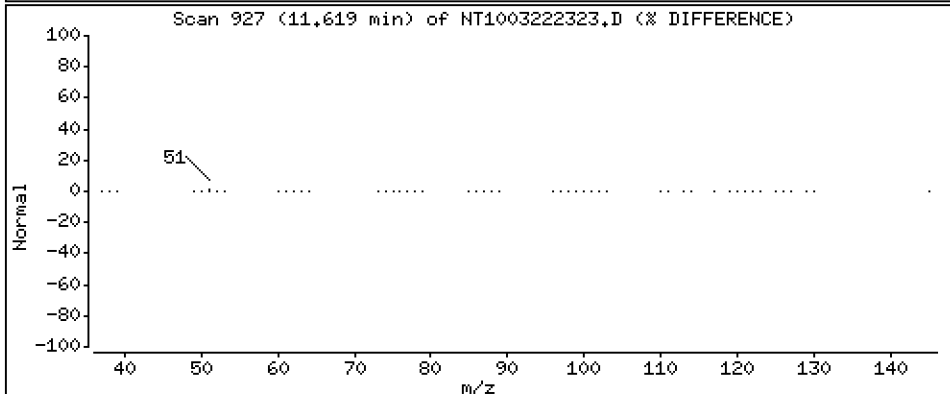
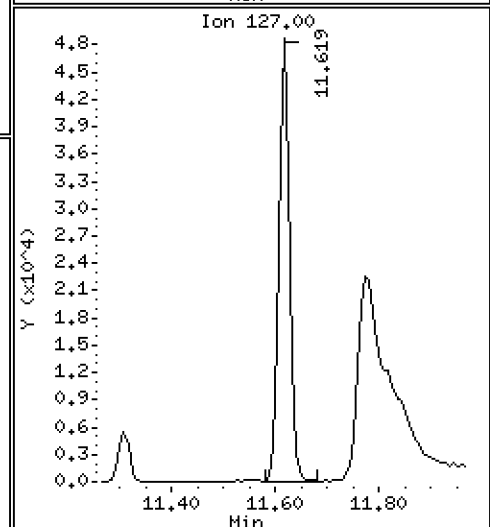
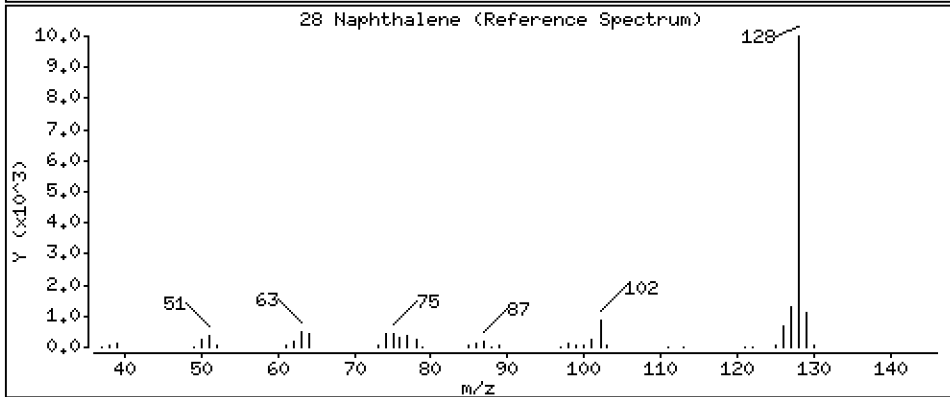
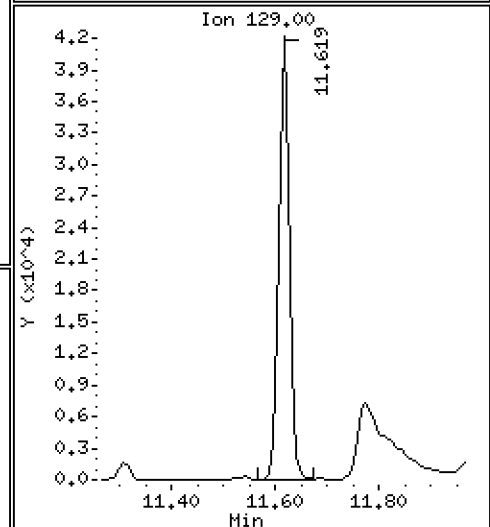
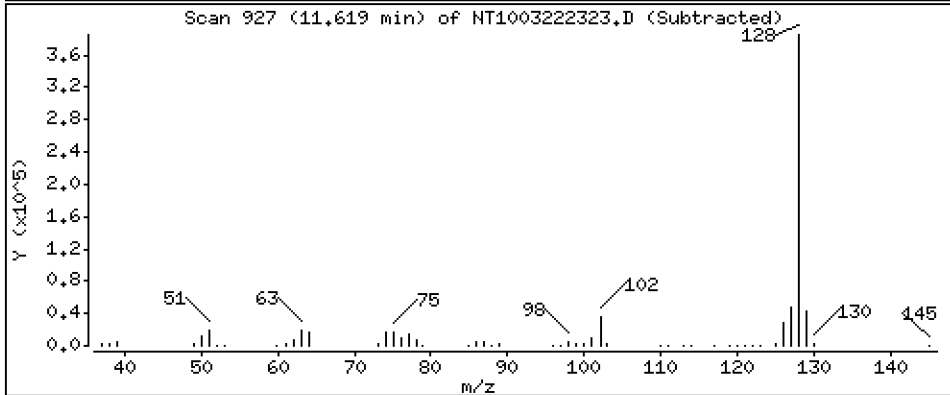
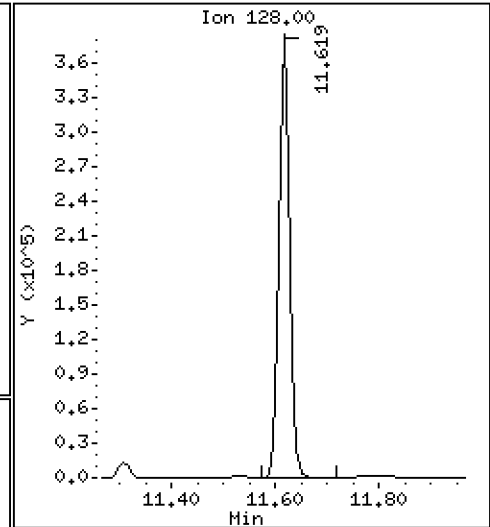
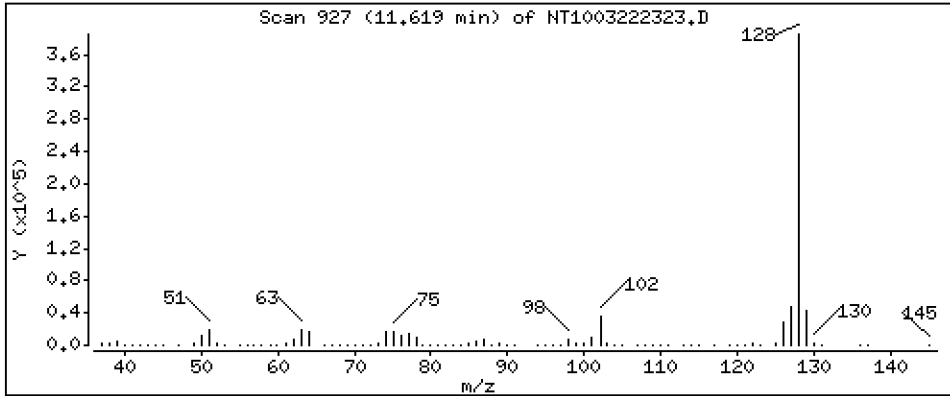
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,013 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

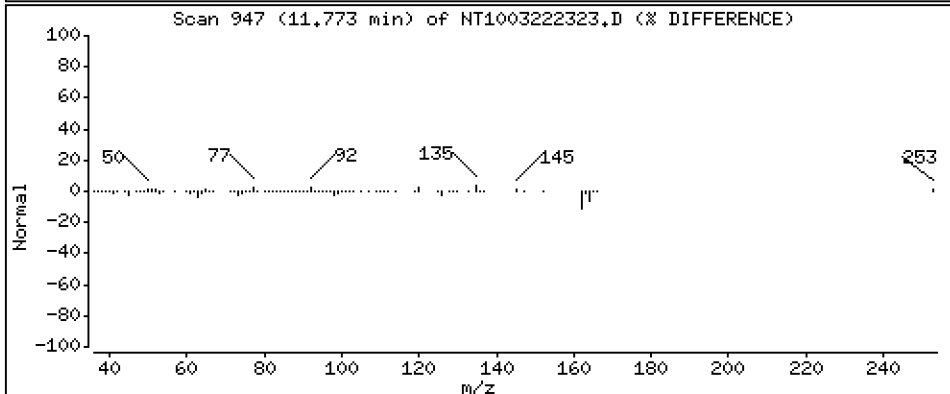
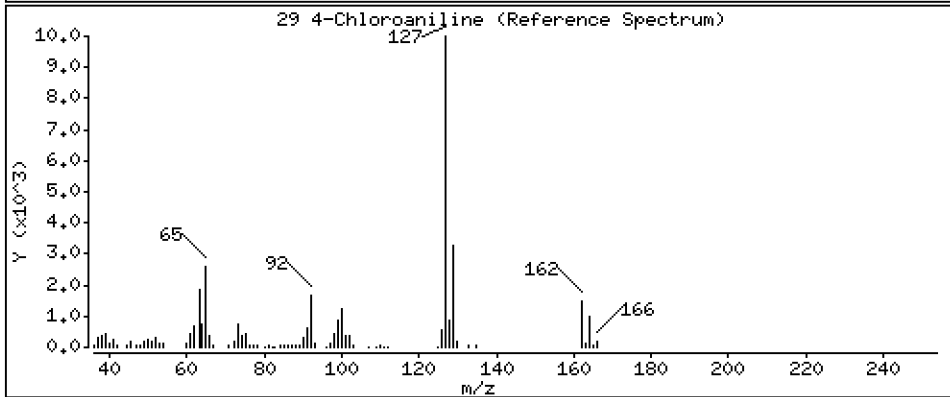
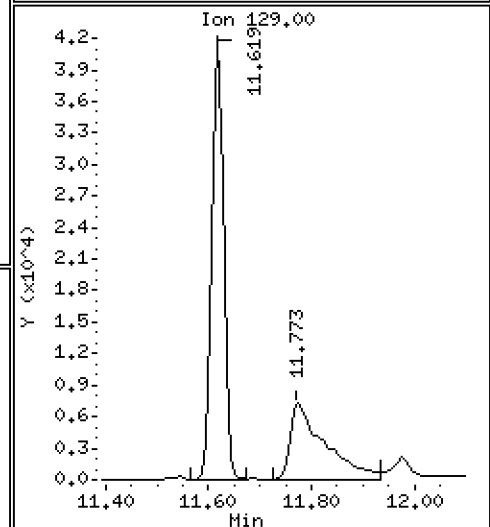
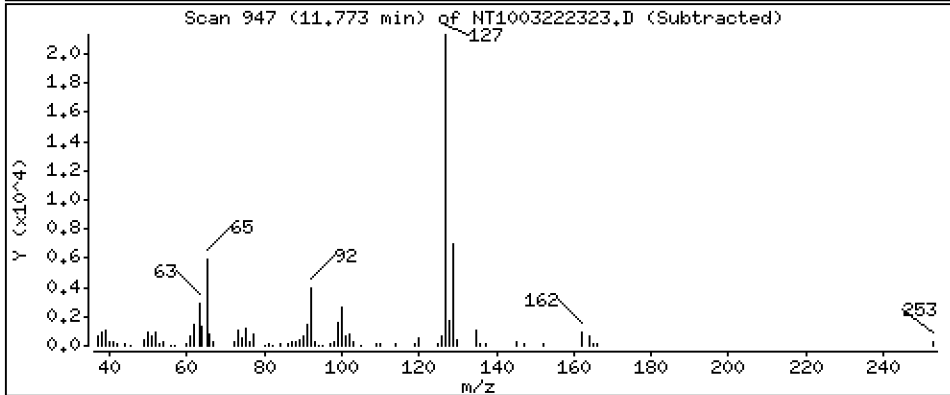
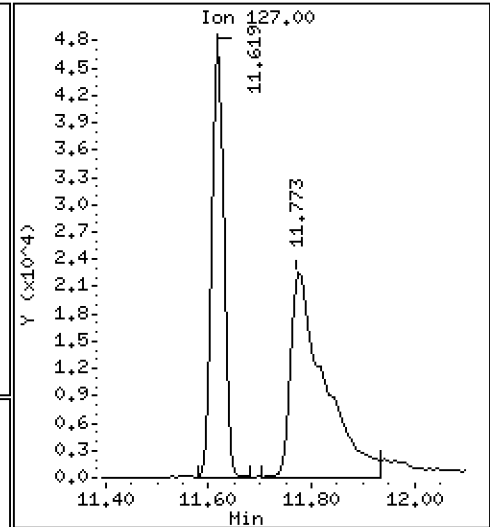
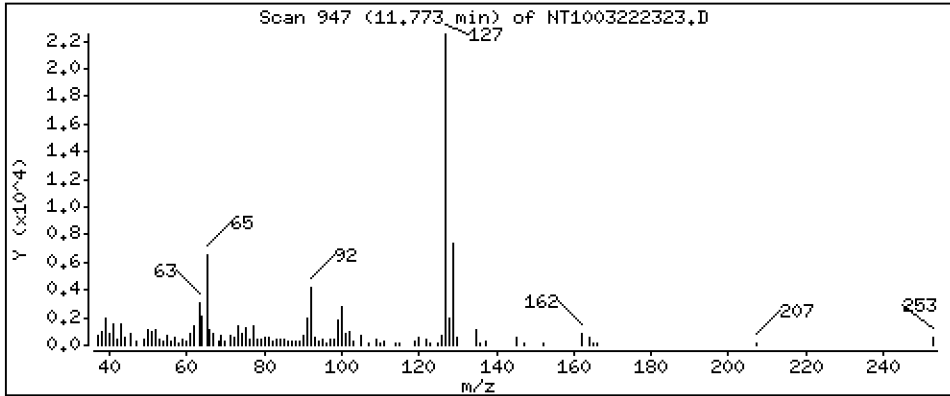
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 2,012 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

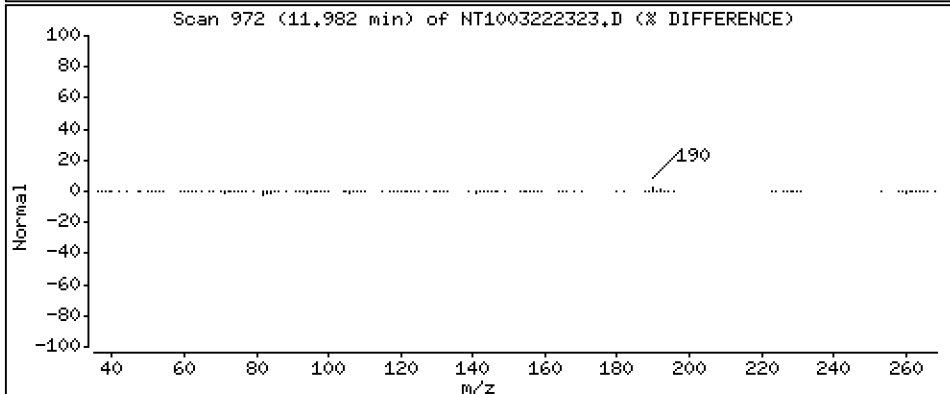
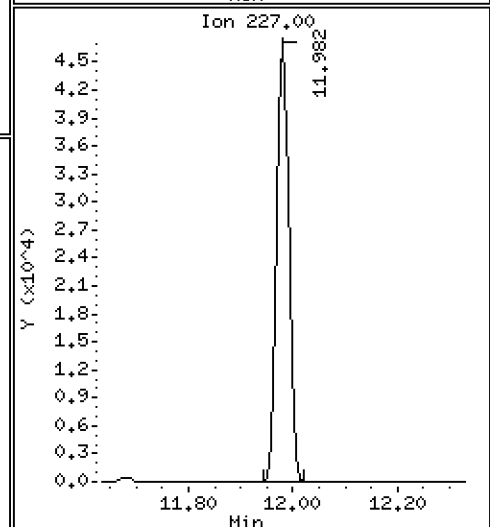
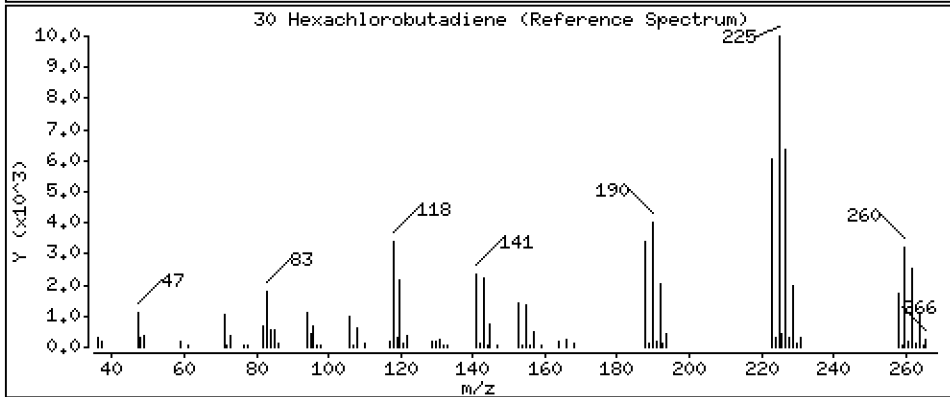
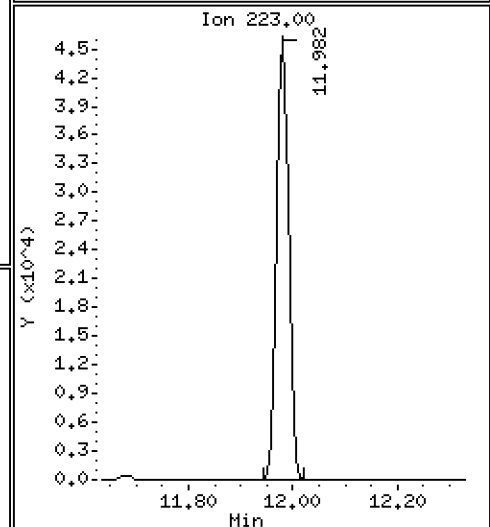
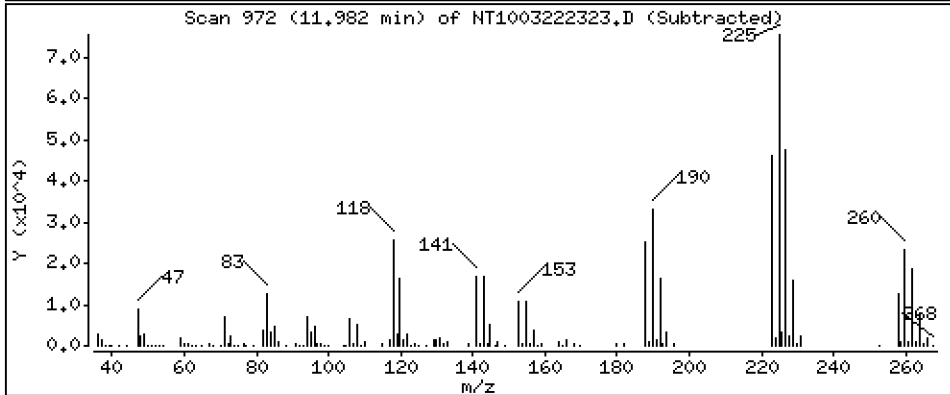
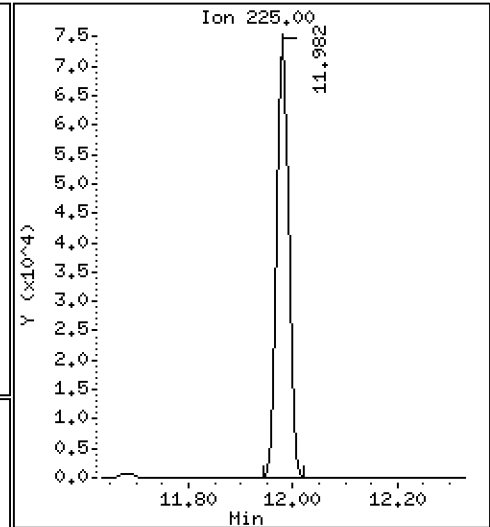
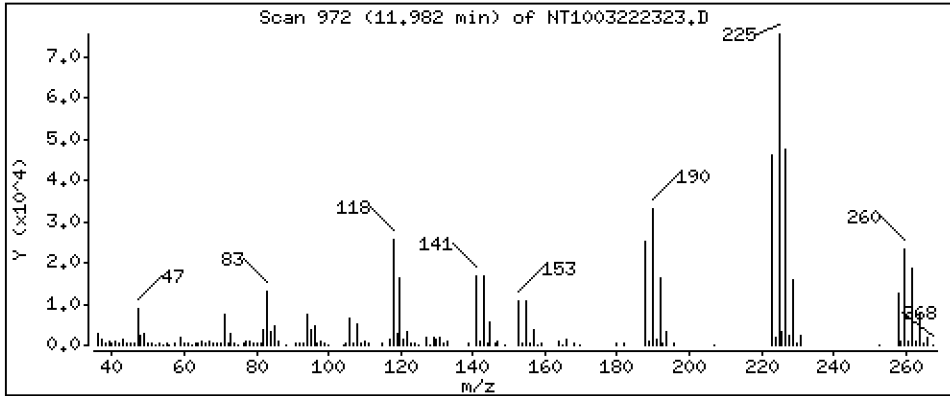
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,227 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

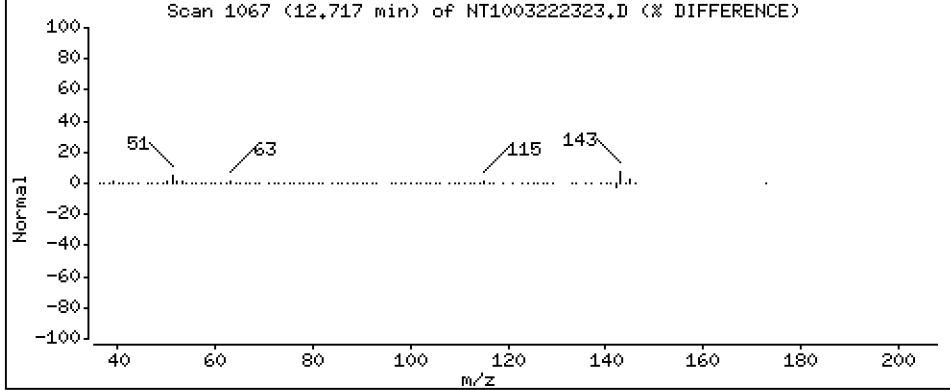
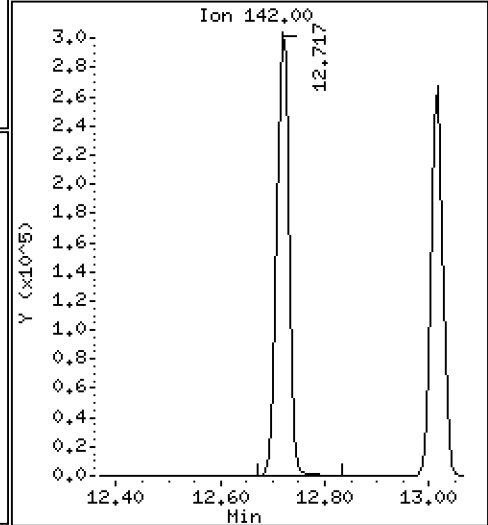
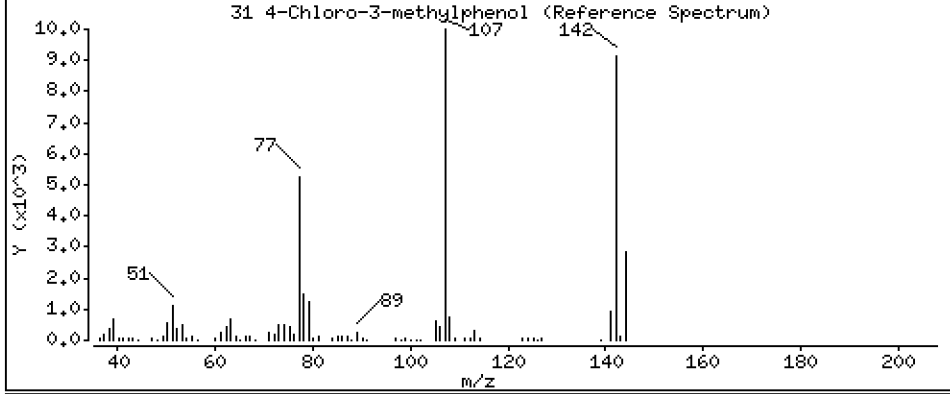
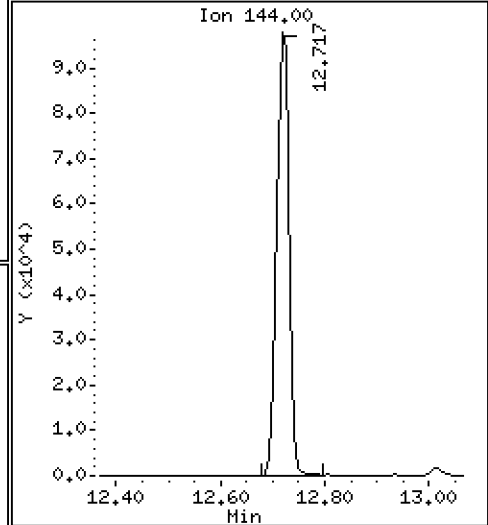
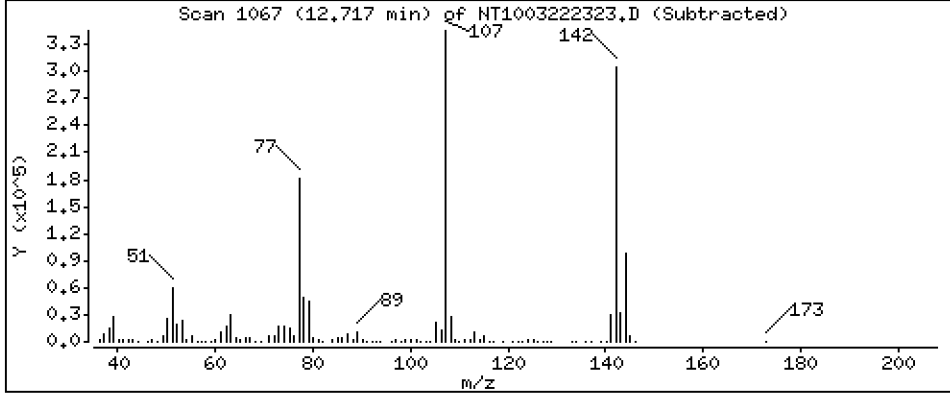
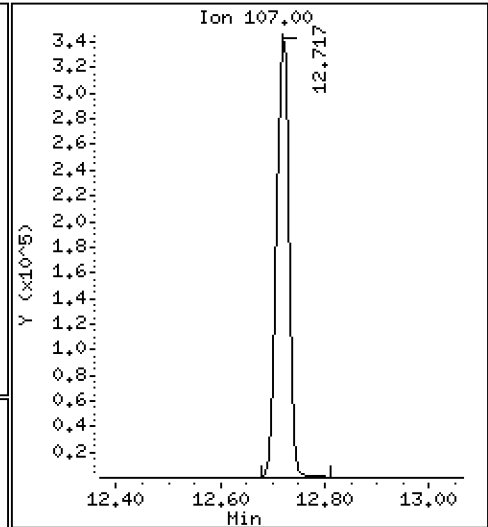
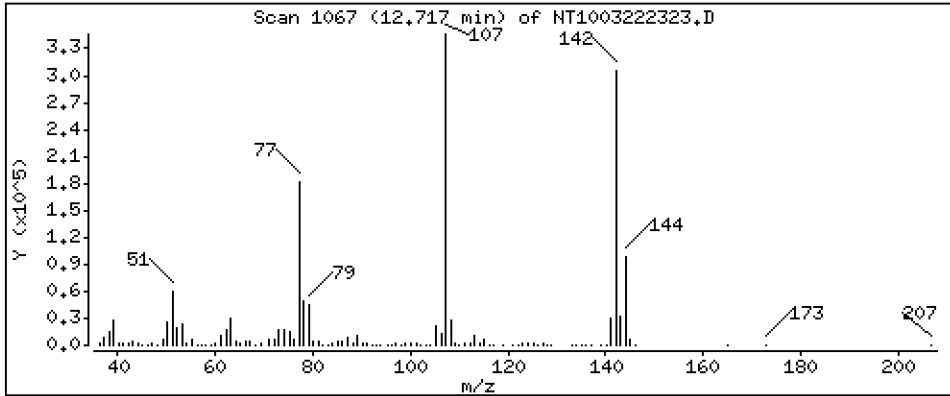
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 12.80 ug/mL





Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

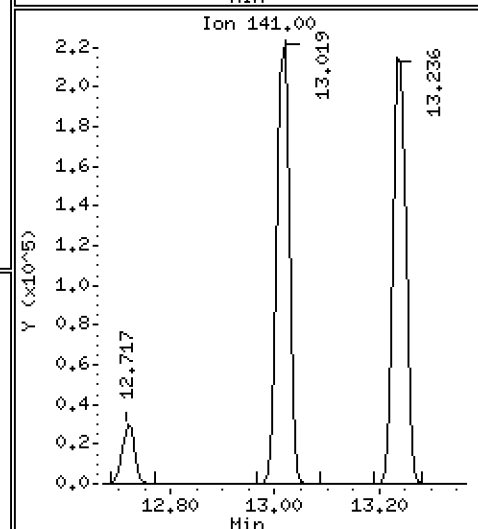
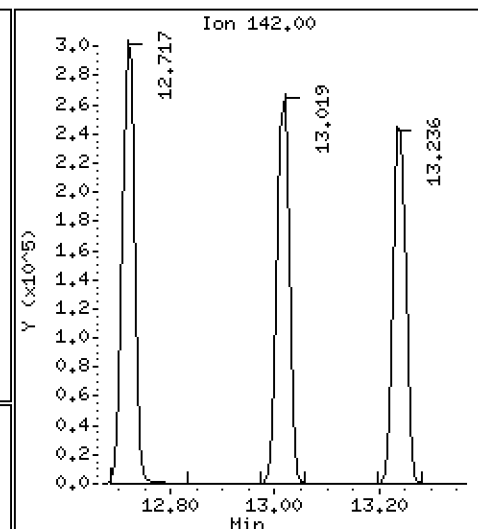
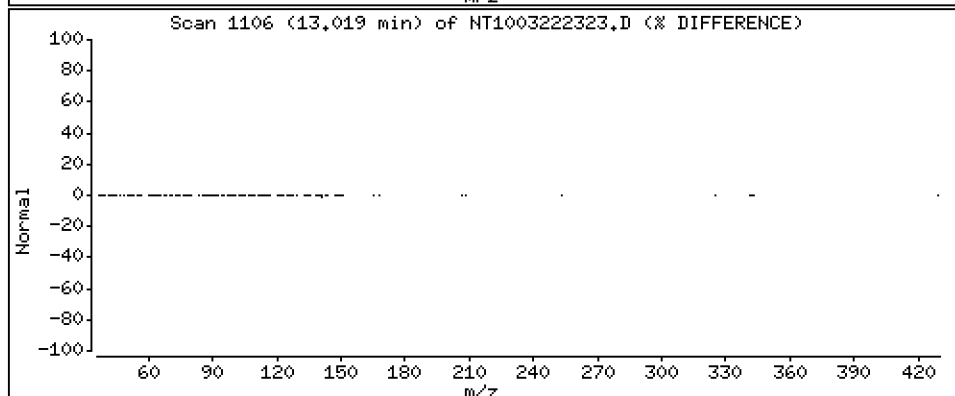
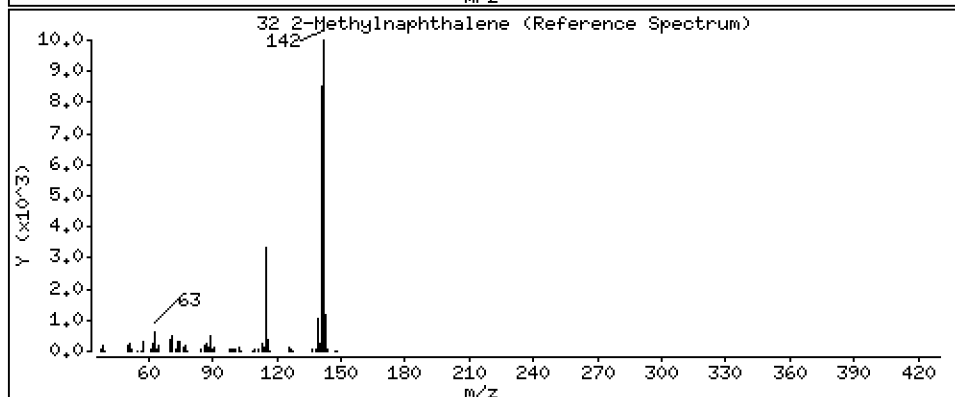
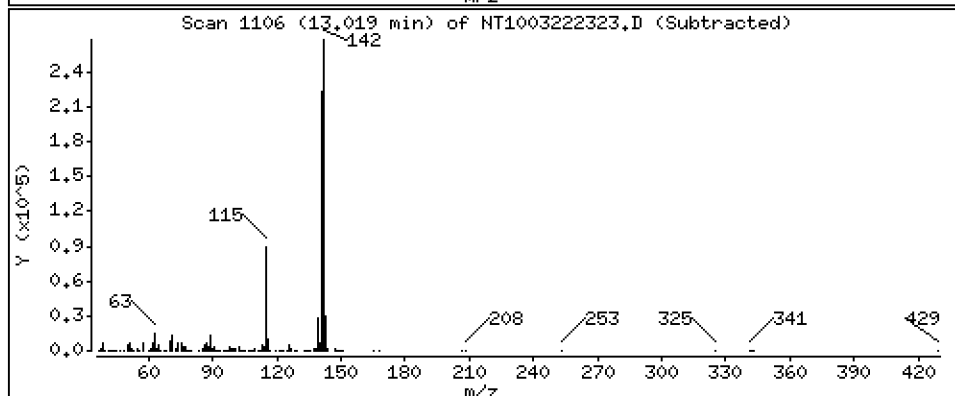
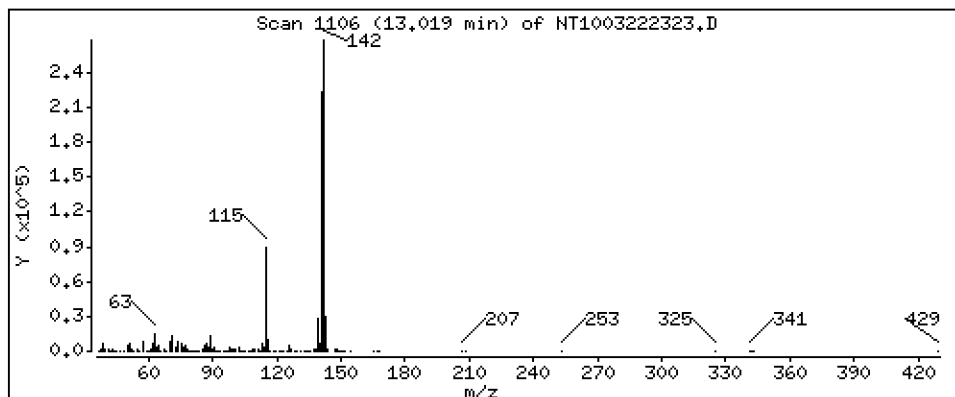
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,100 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

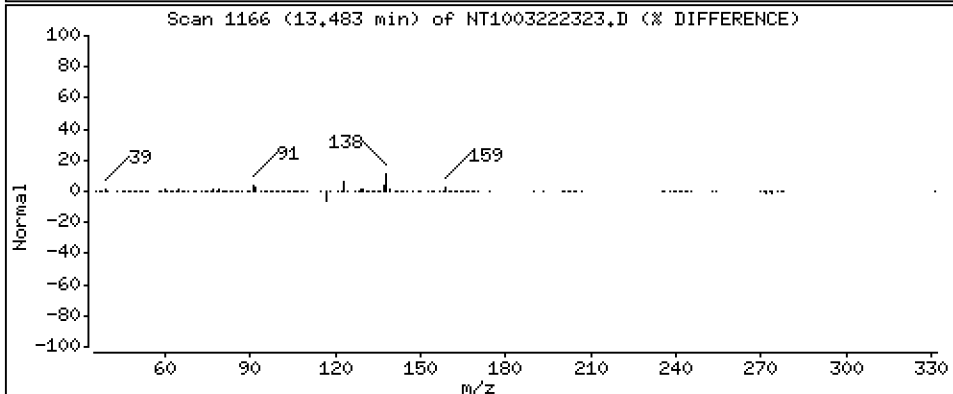
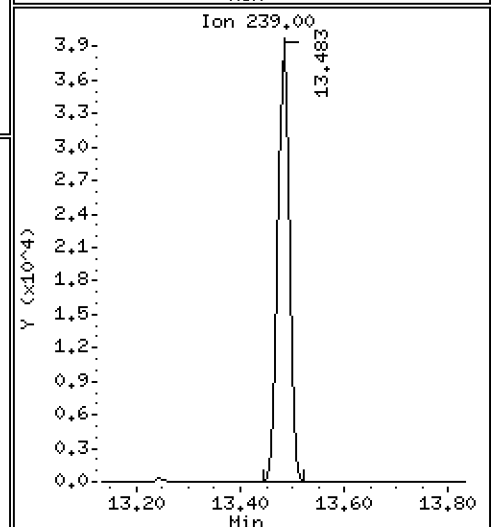
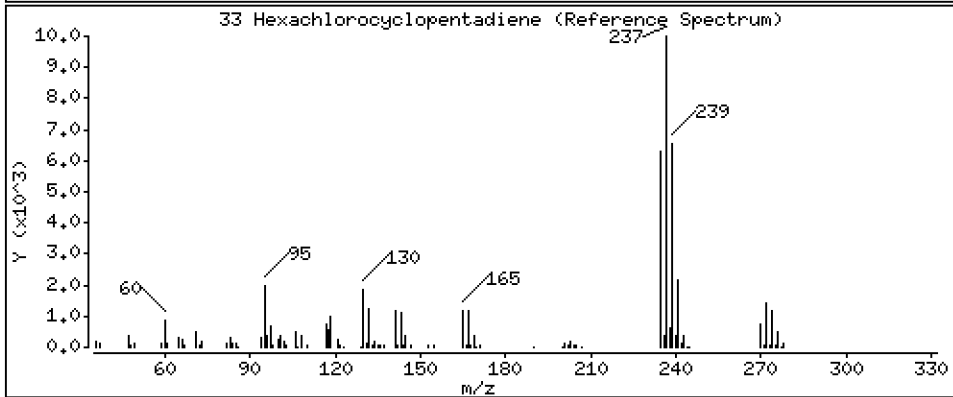
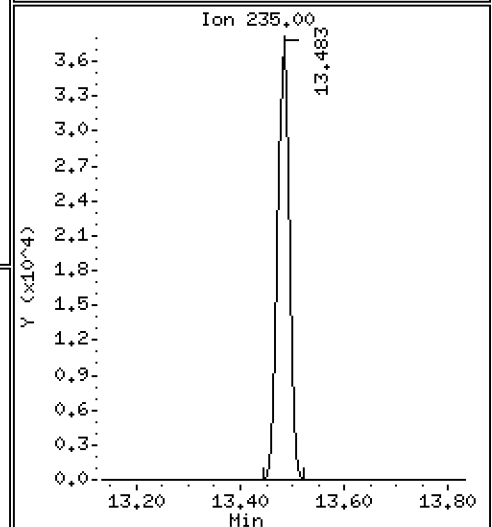
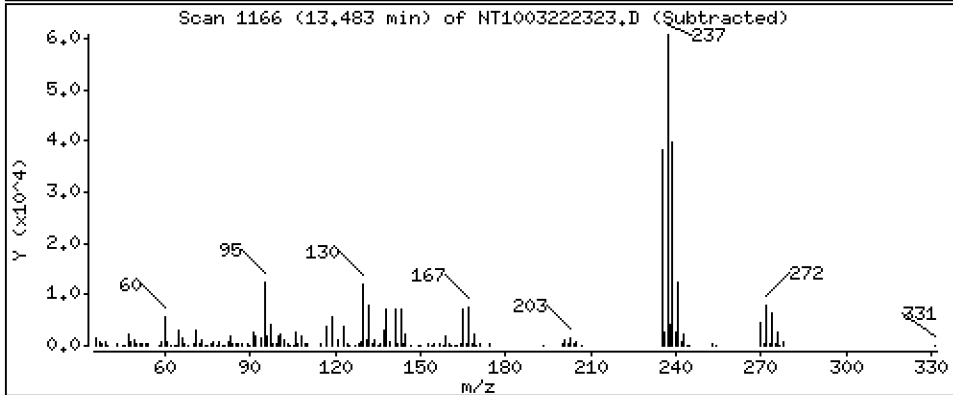
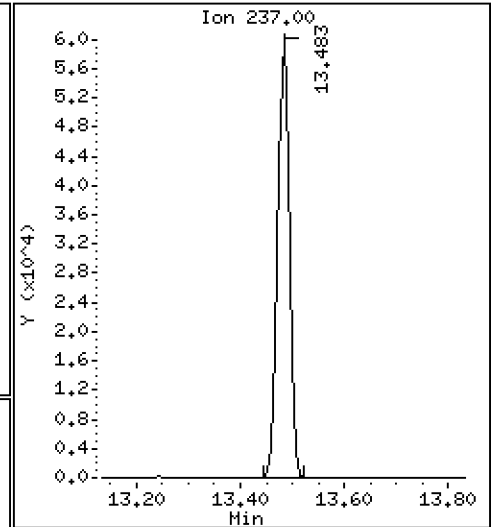
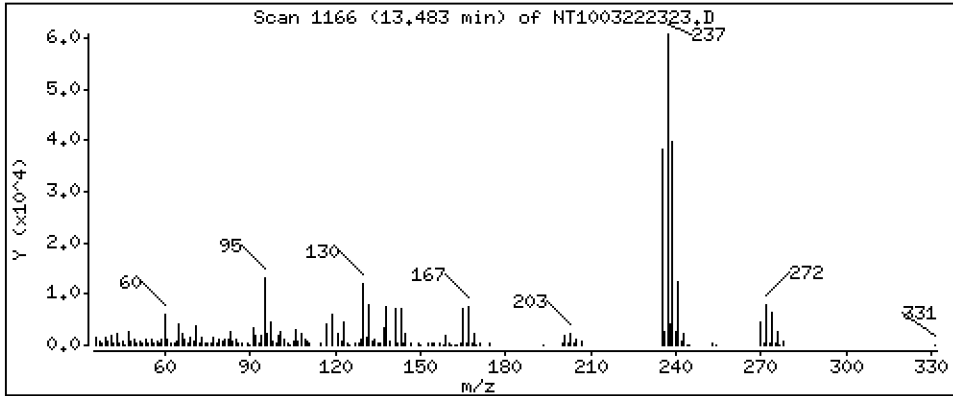
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 3,215 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

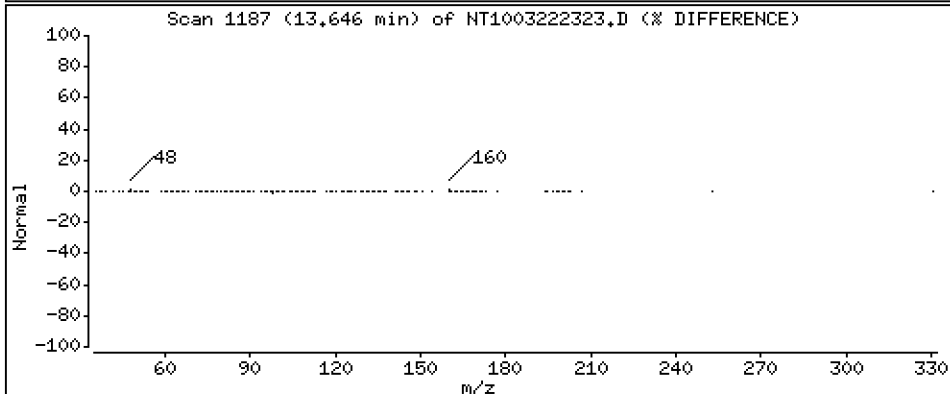
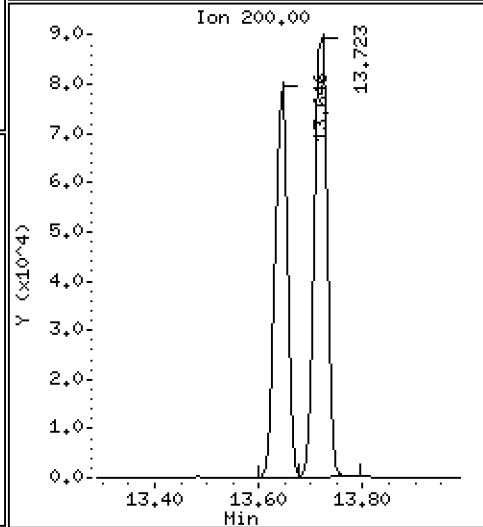
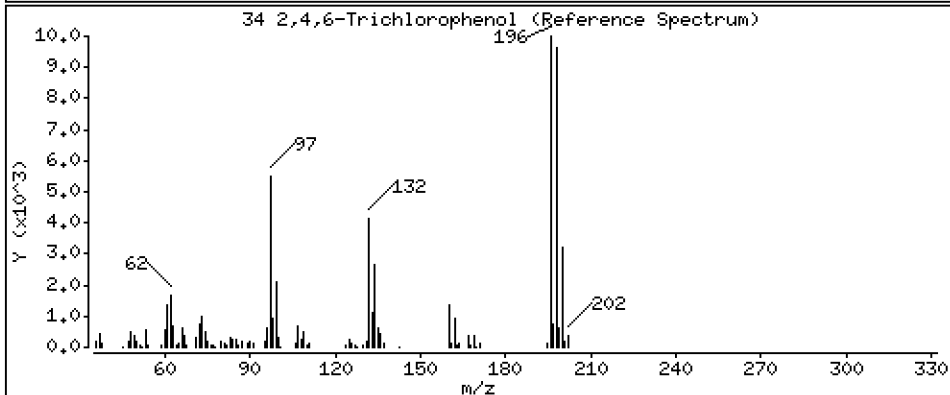
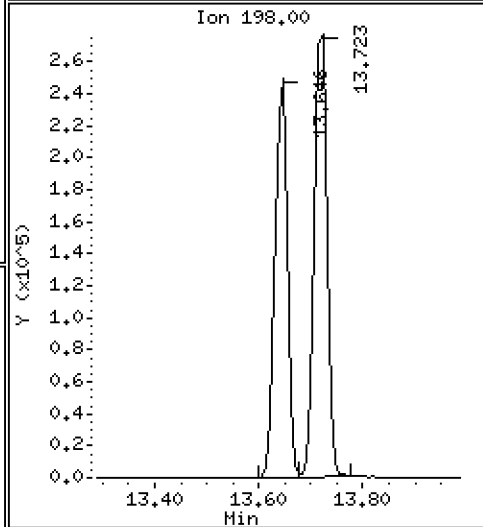
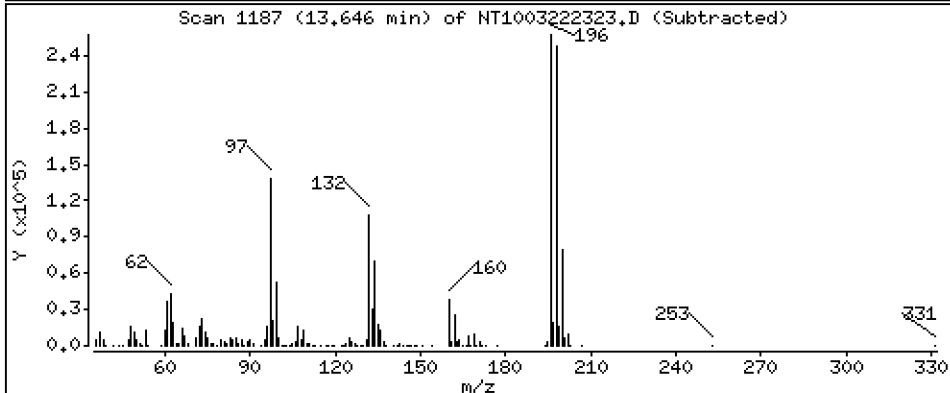
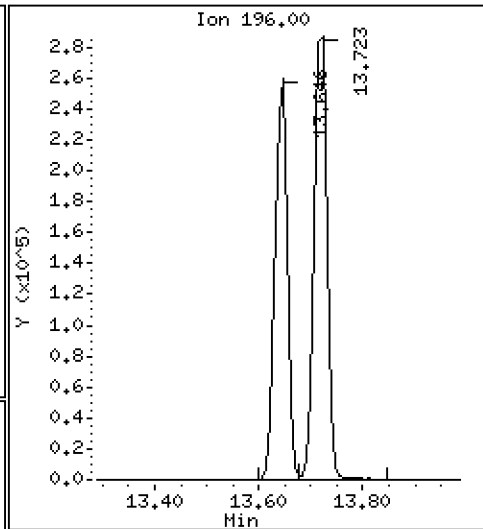
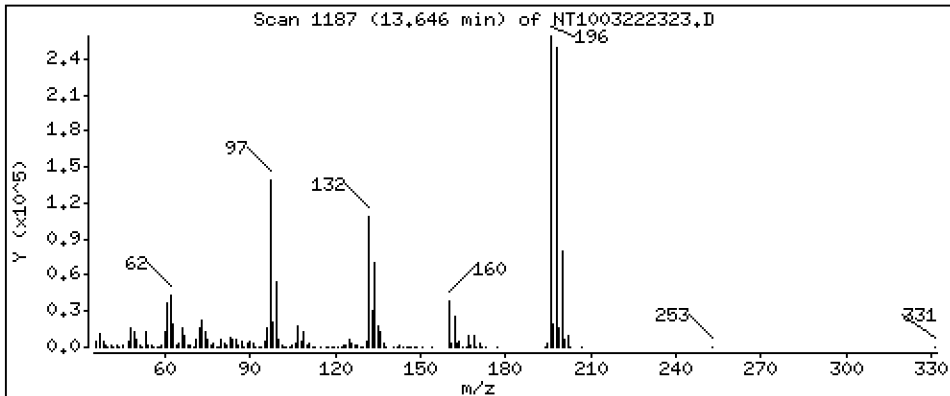
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 14,13 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

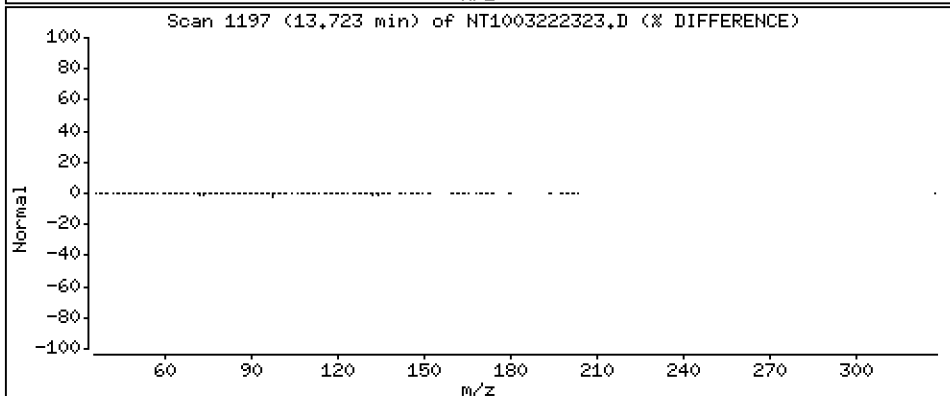
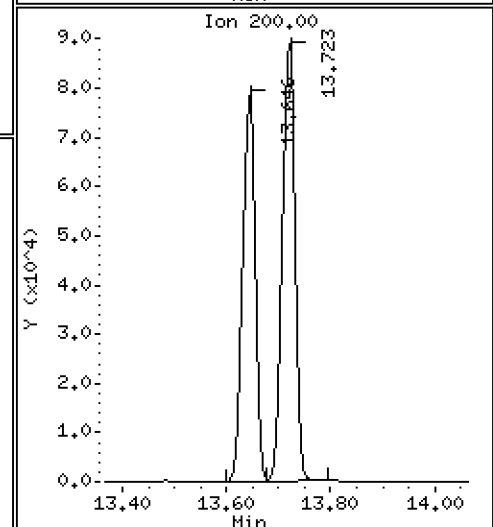
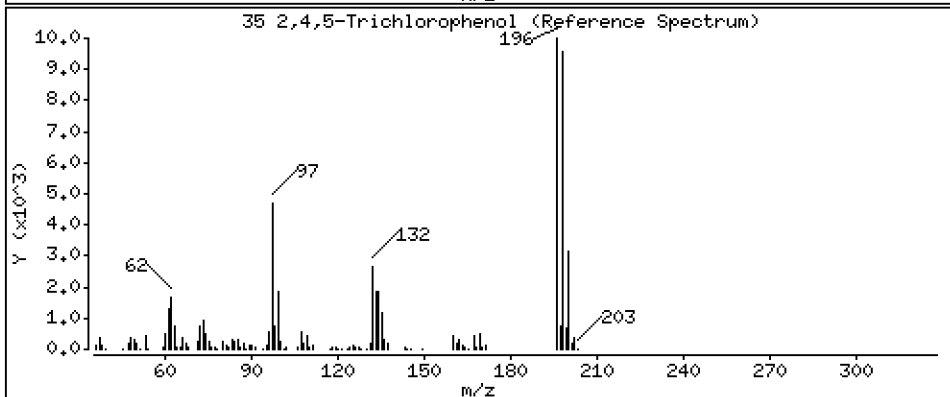
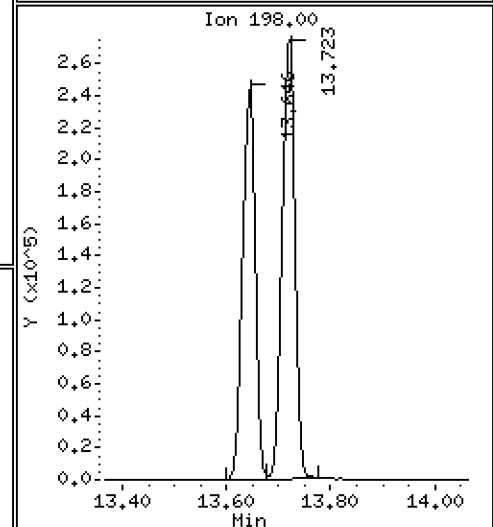
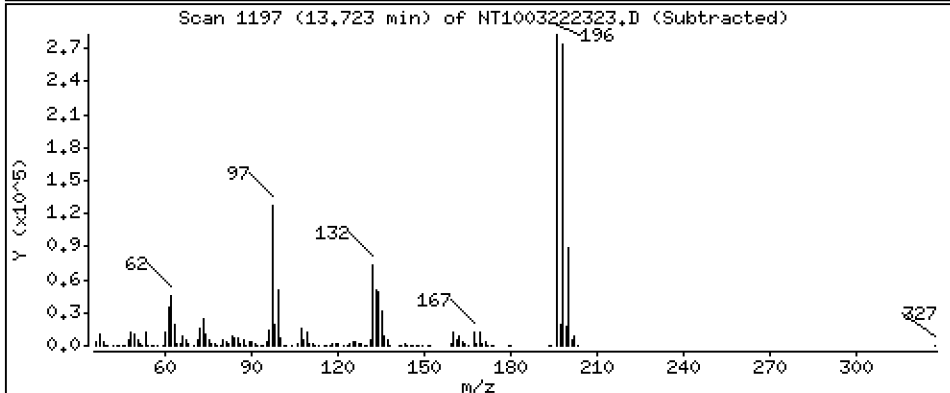
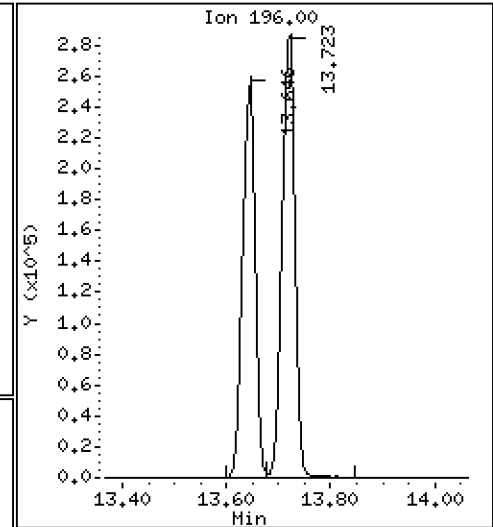
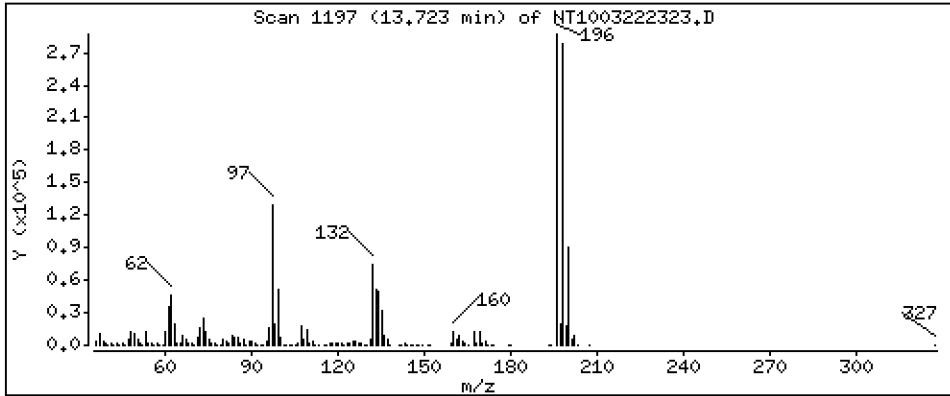
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 14,46 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

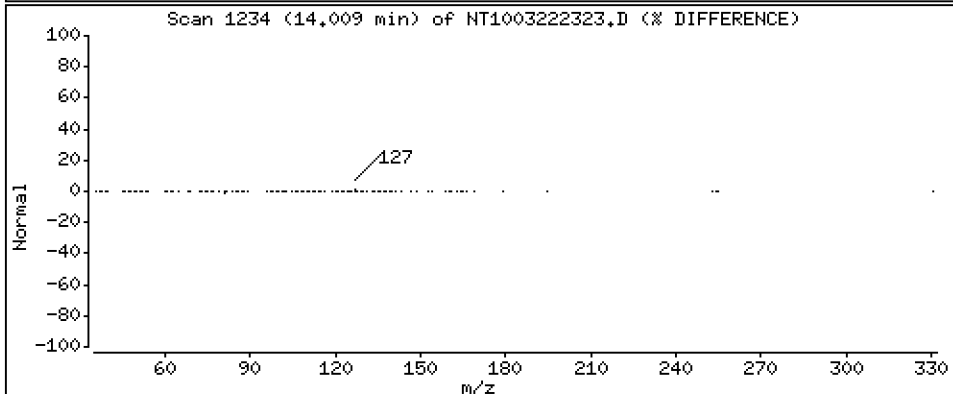
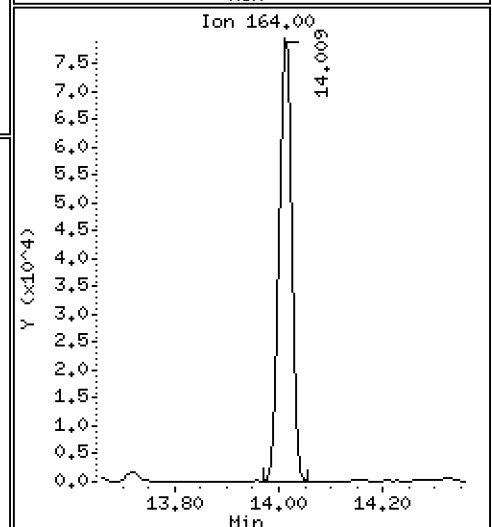
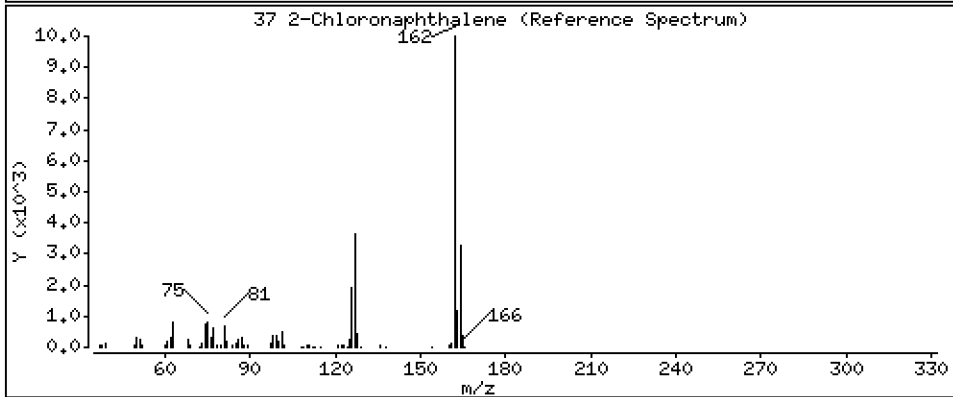
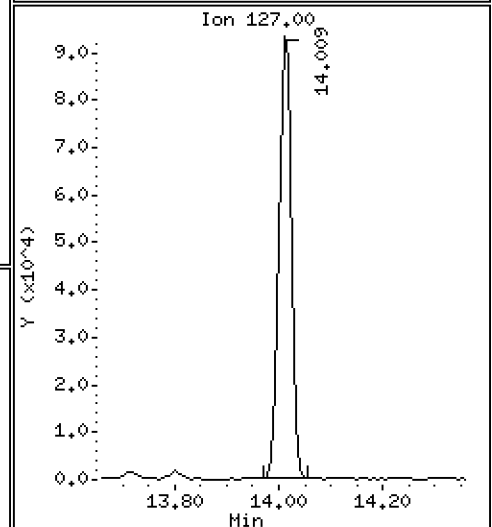
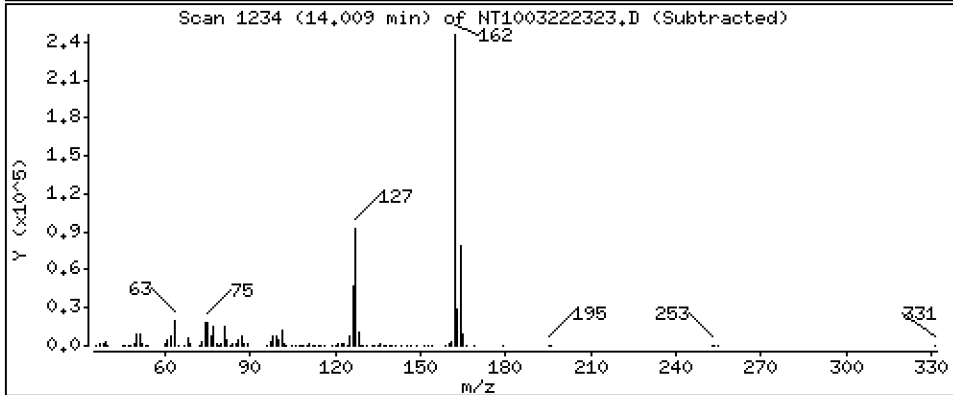
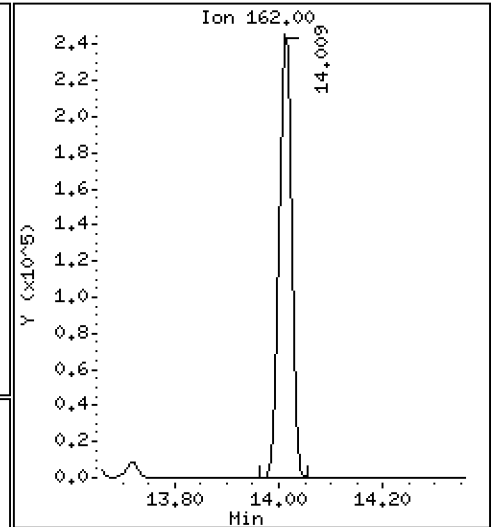
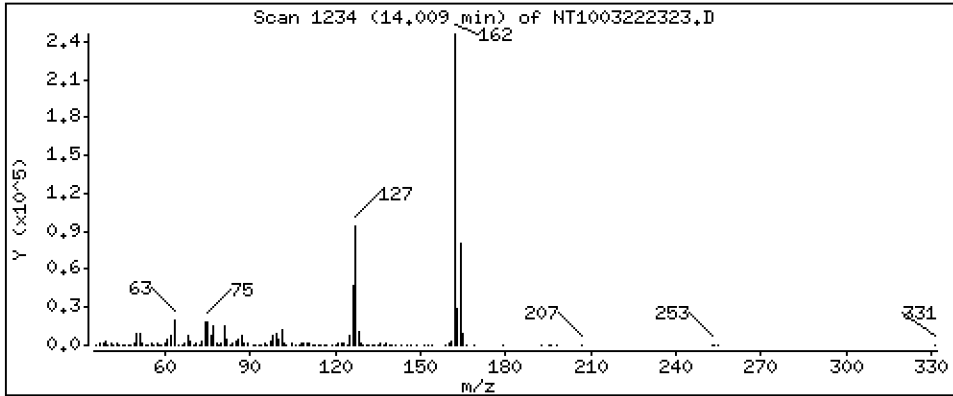
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,135 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

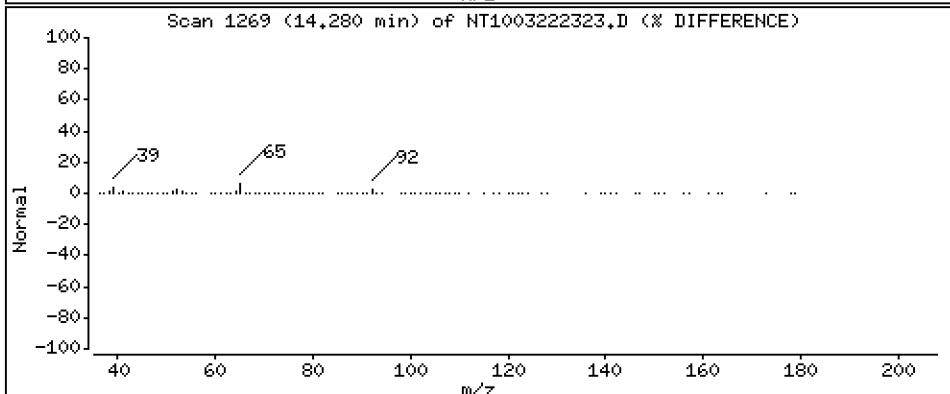
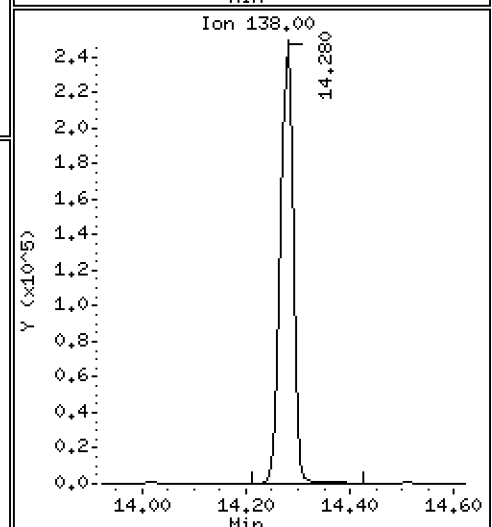
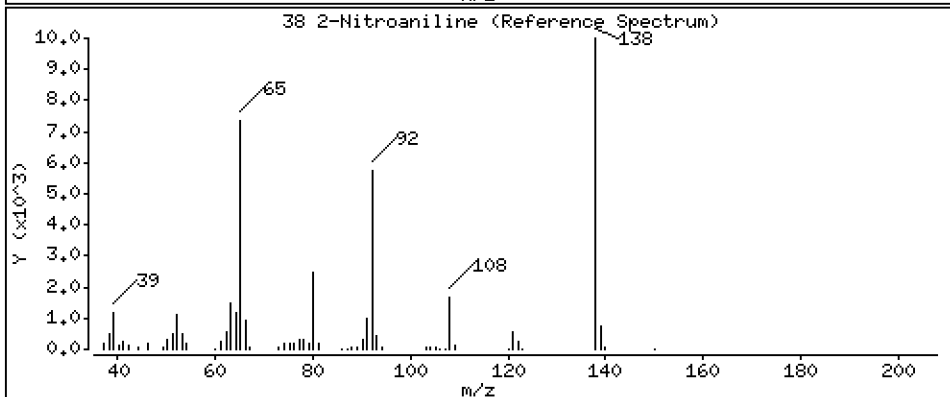
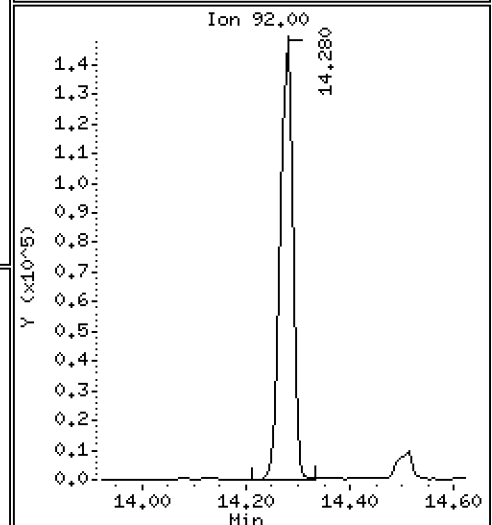
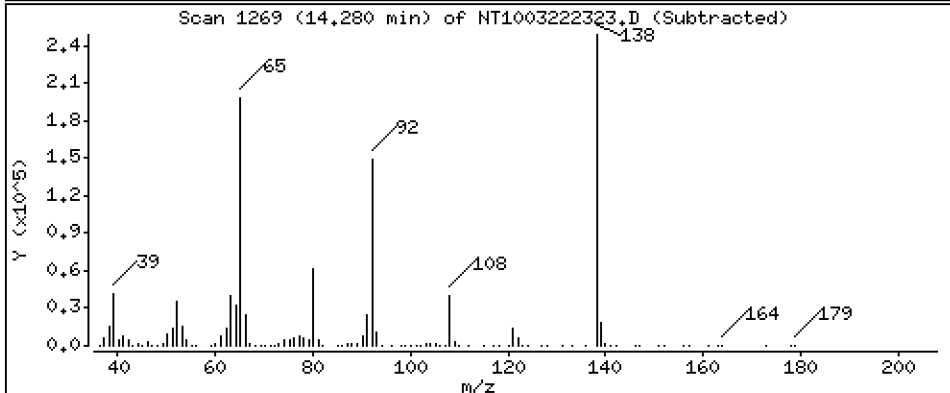
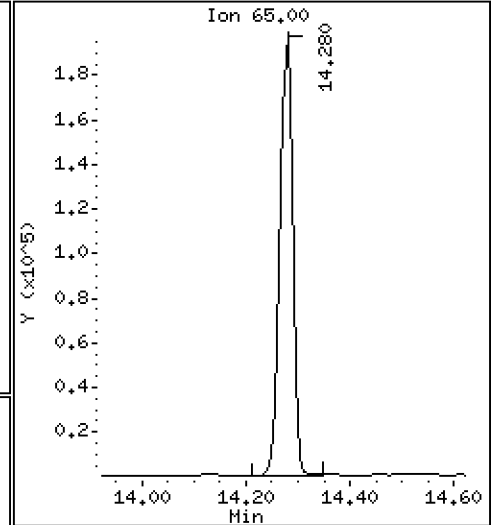
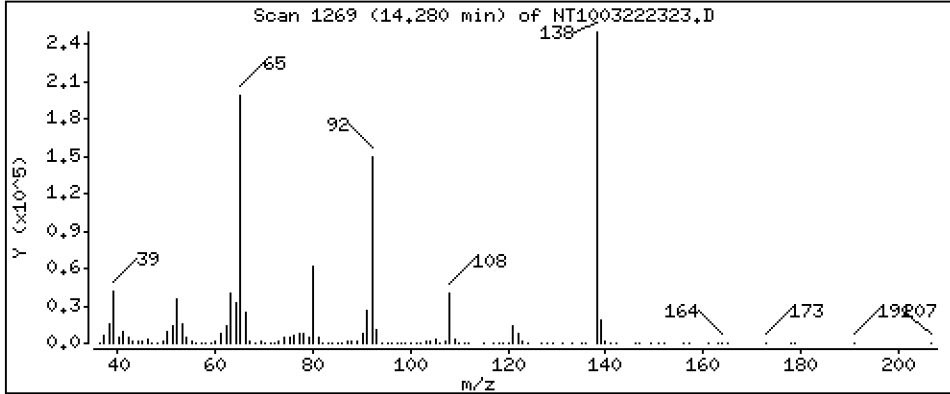
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 12,02 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

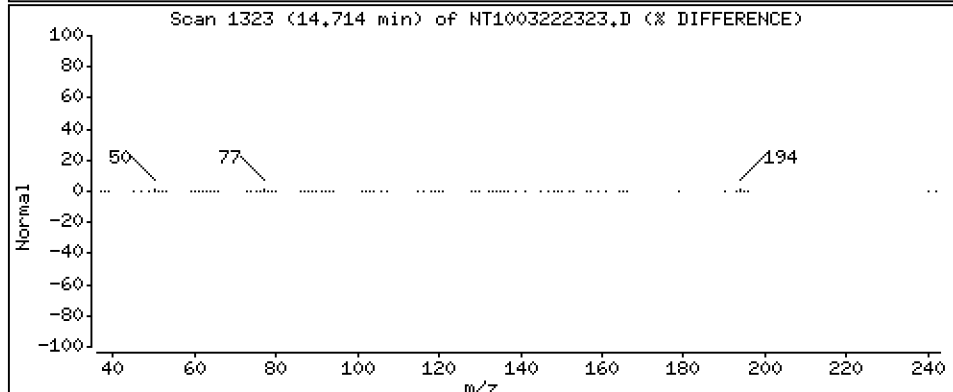
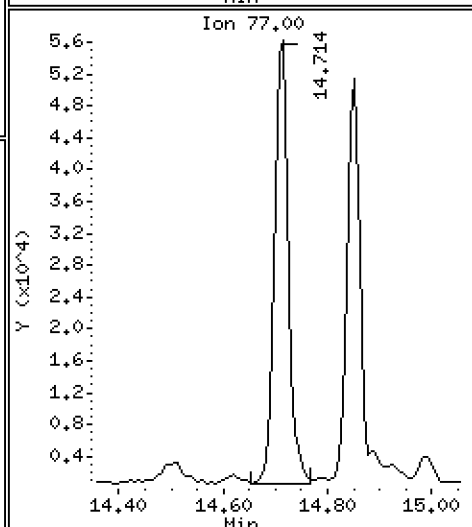
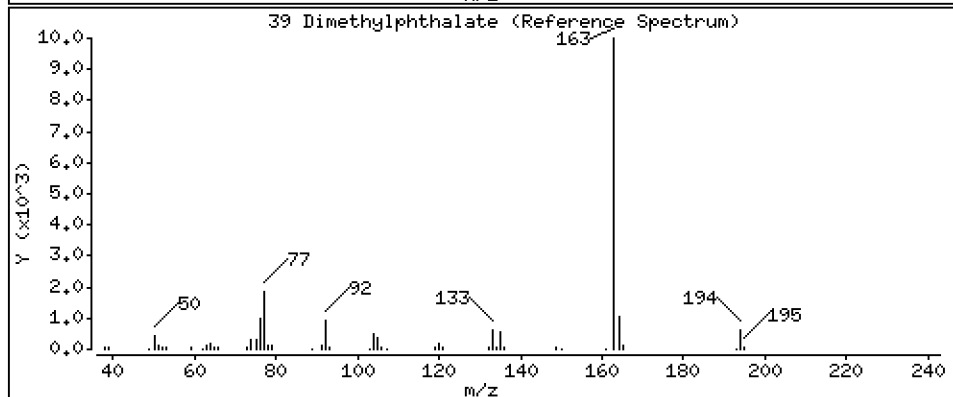
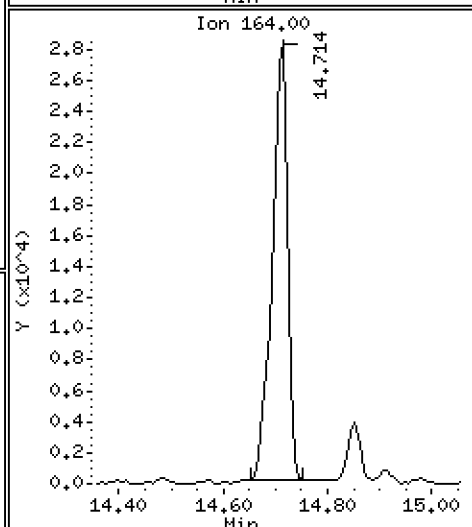
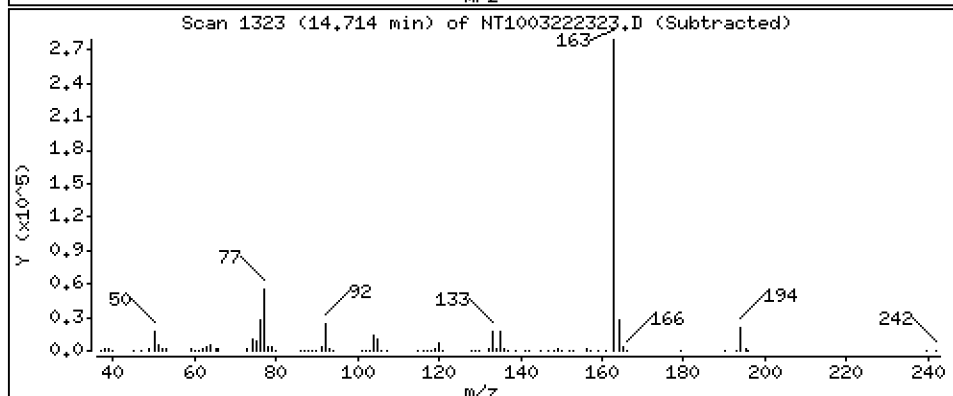
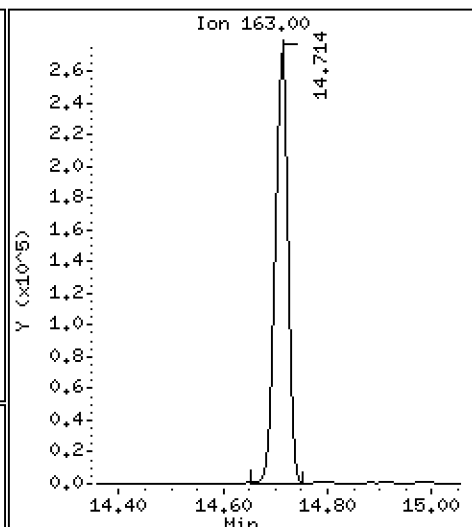
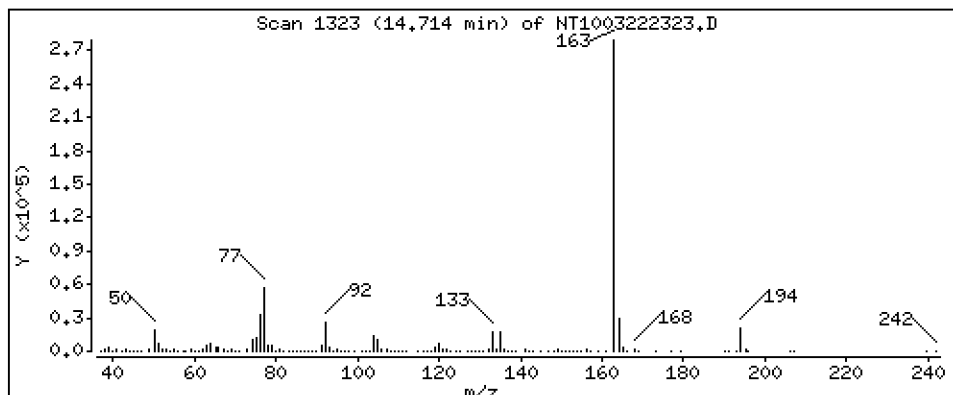
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,660 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

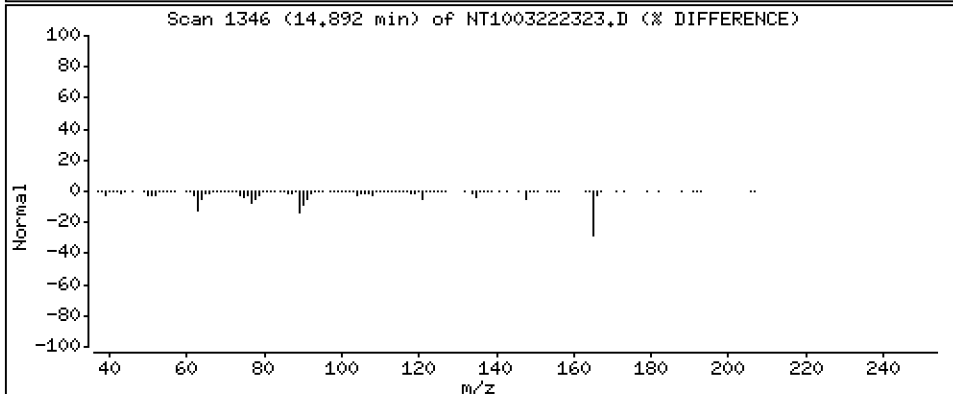
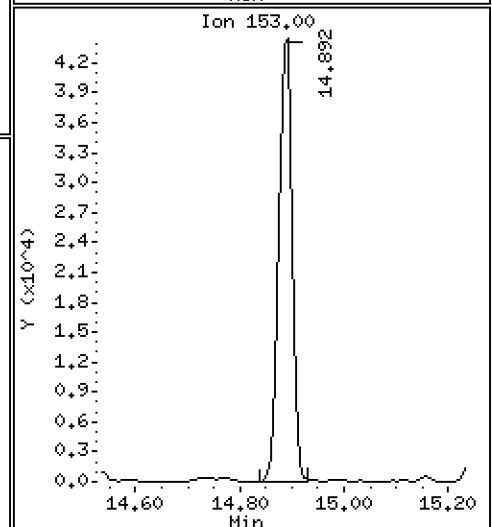
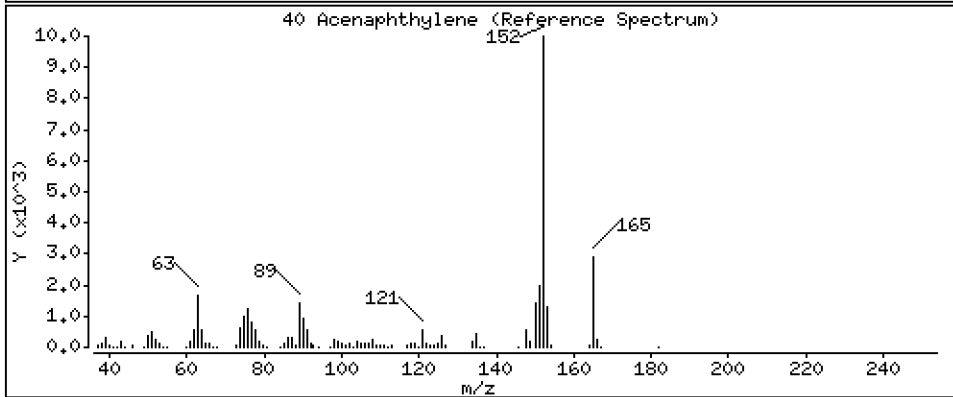
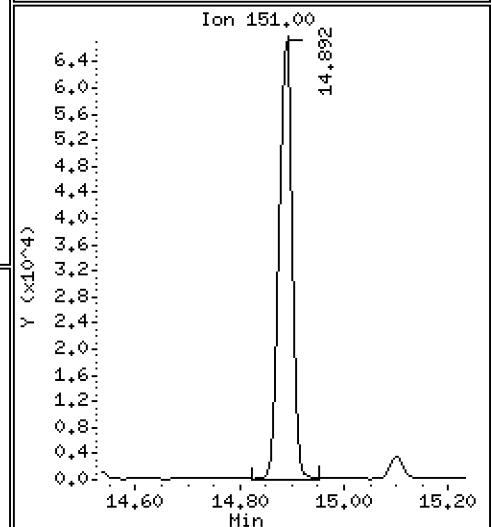
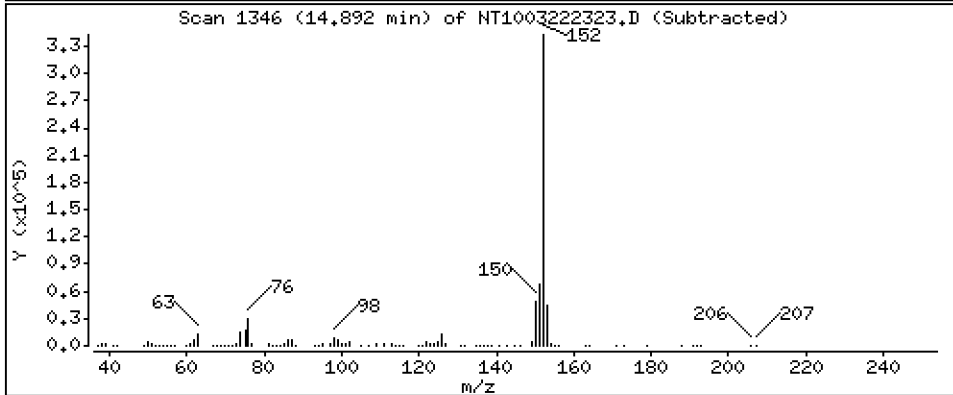
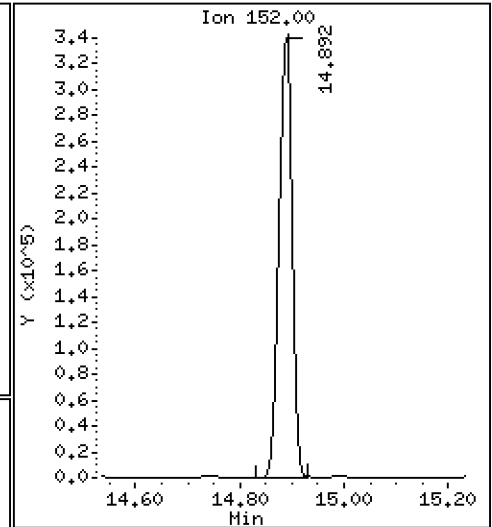
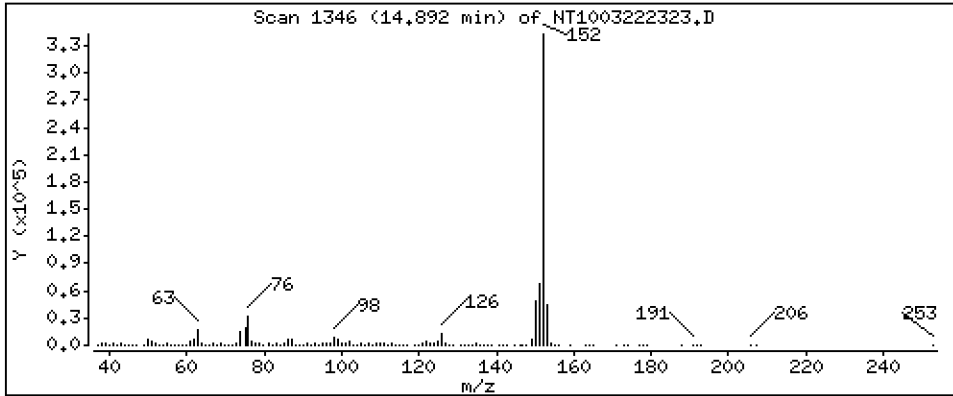
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 3,879 ug/mL





Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

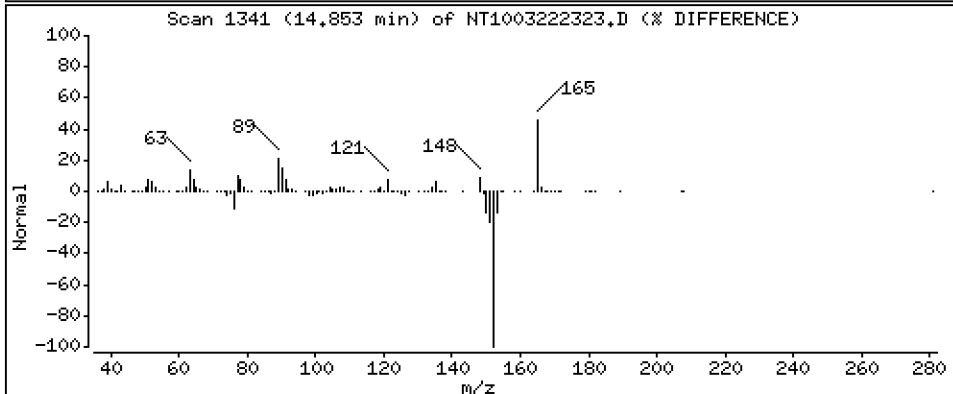
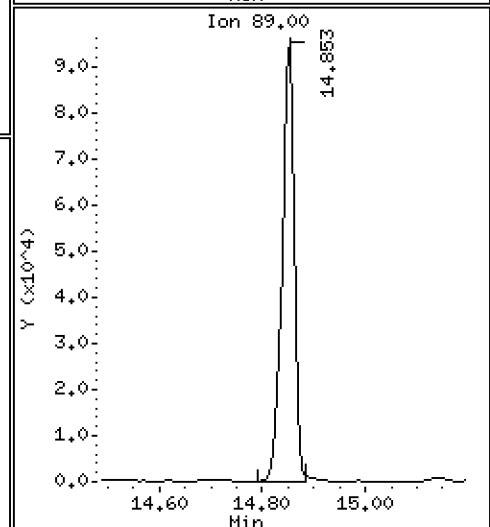
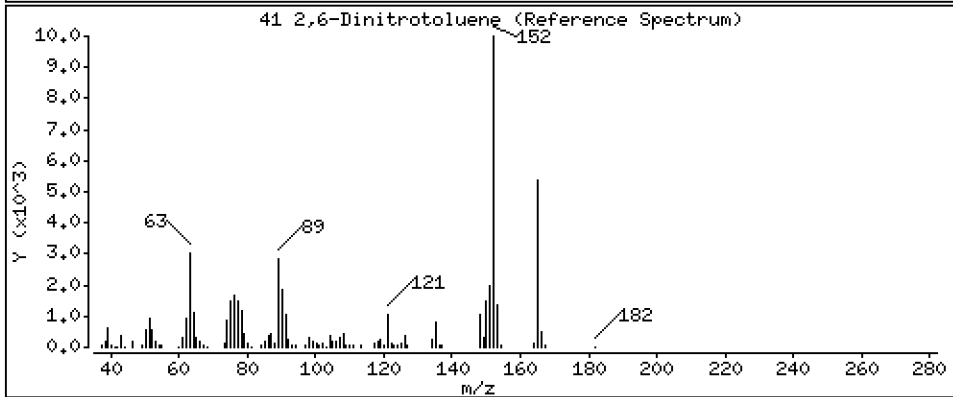
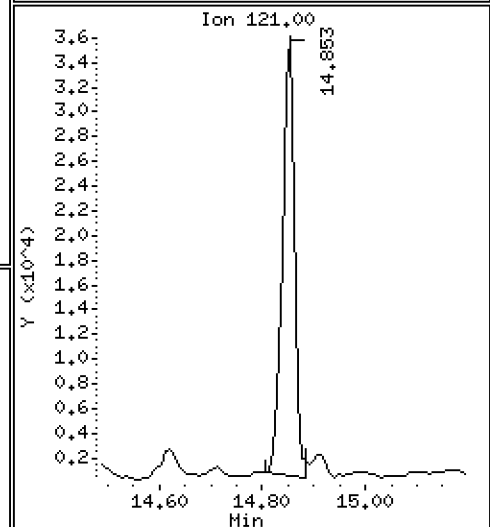
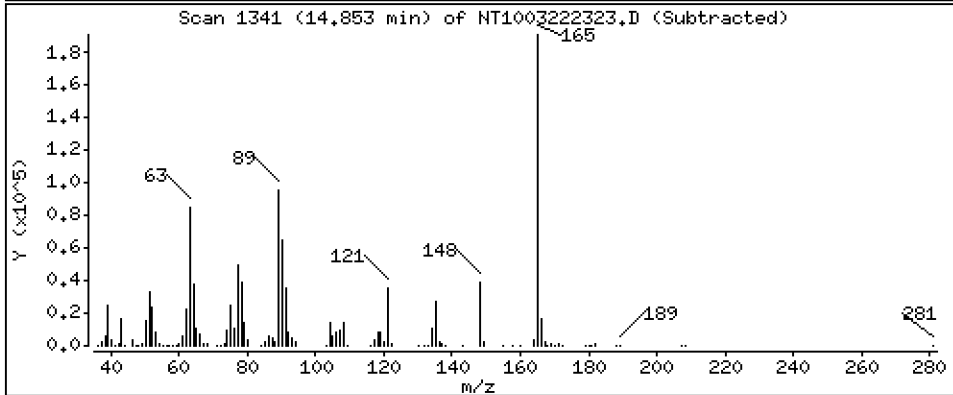
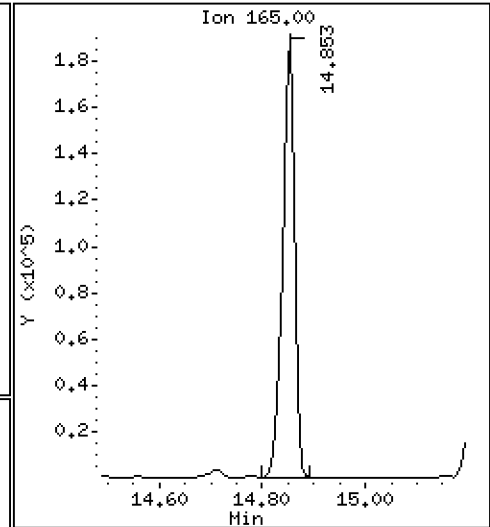
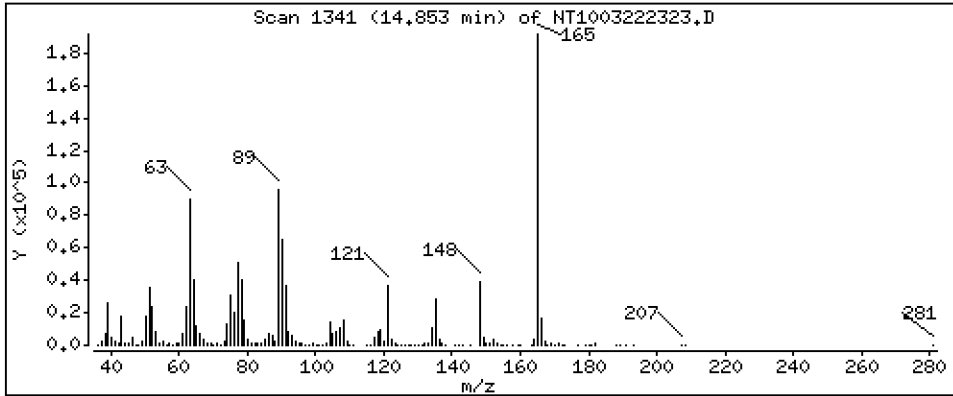
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 14,58 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

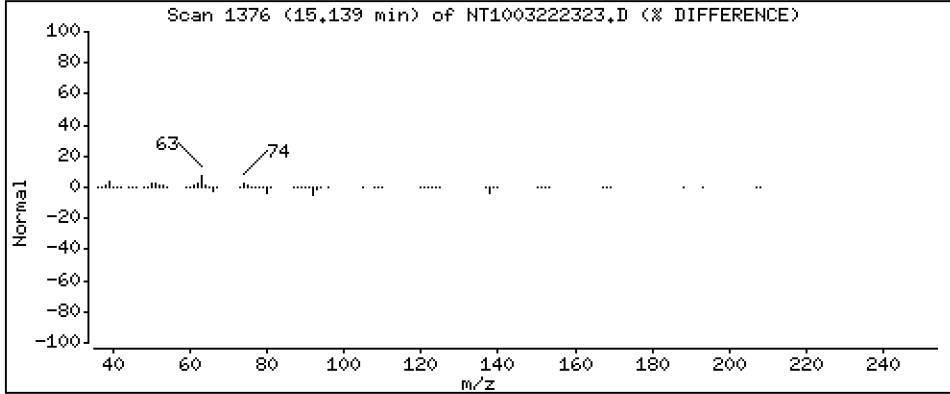
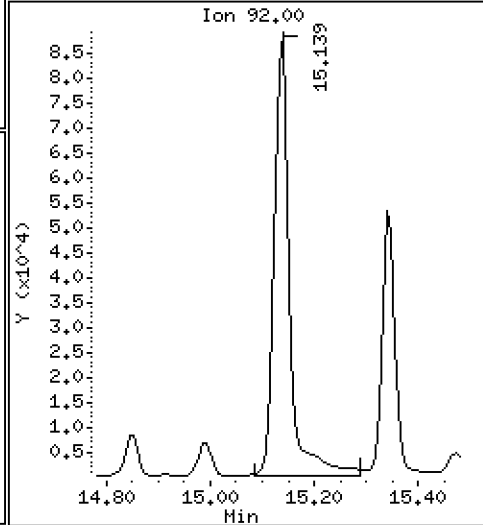
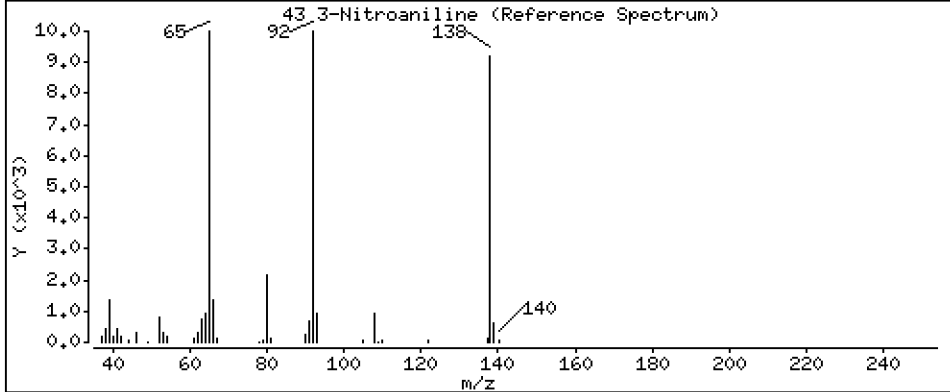
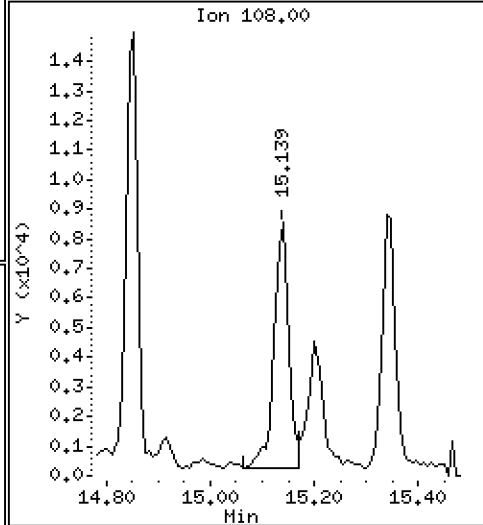
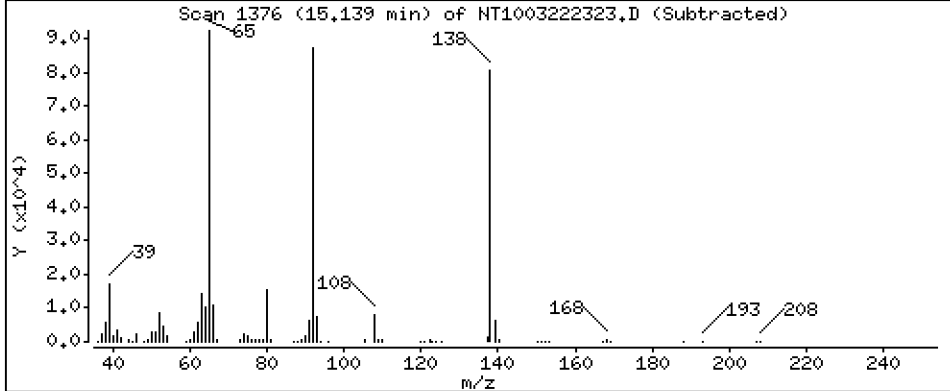
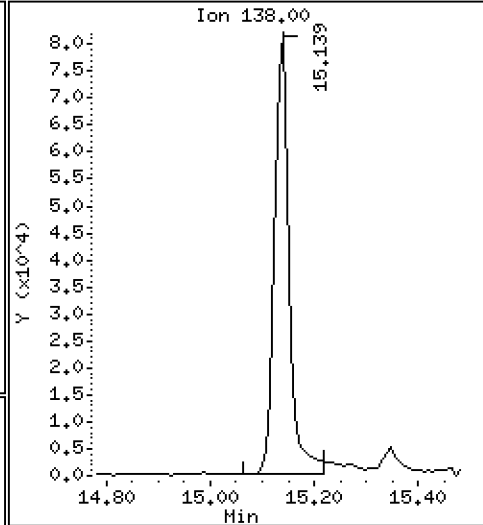
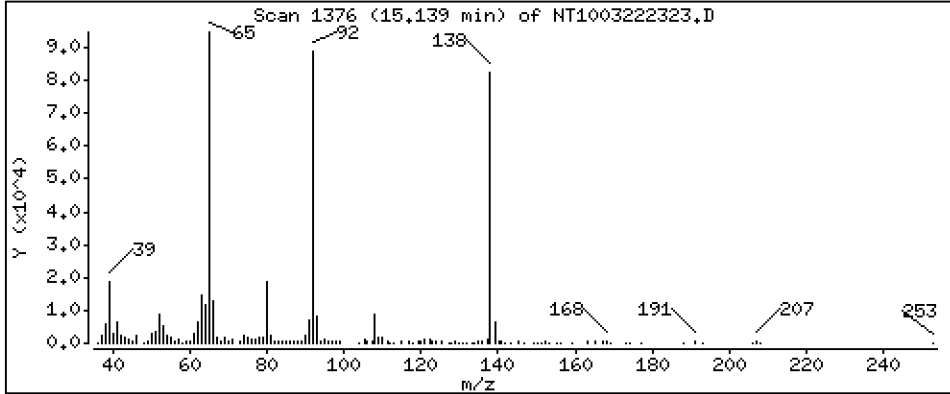
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 6,624 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

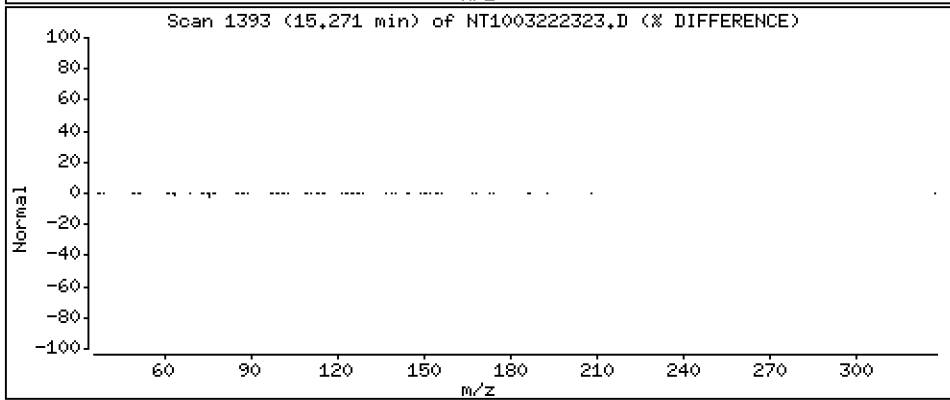
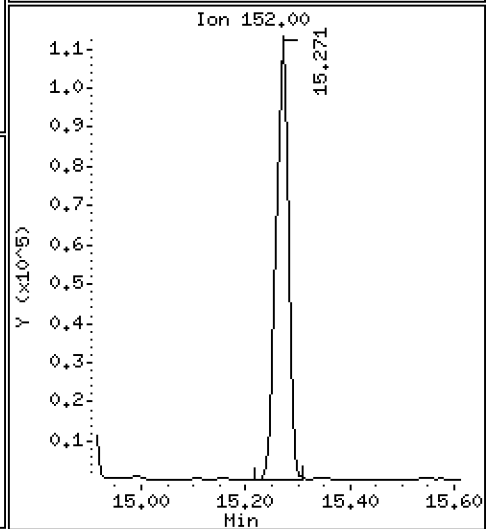
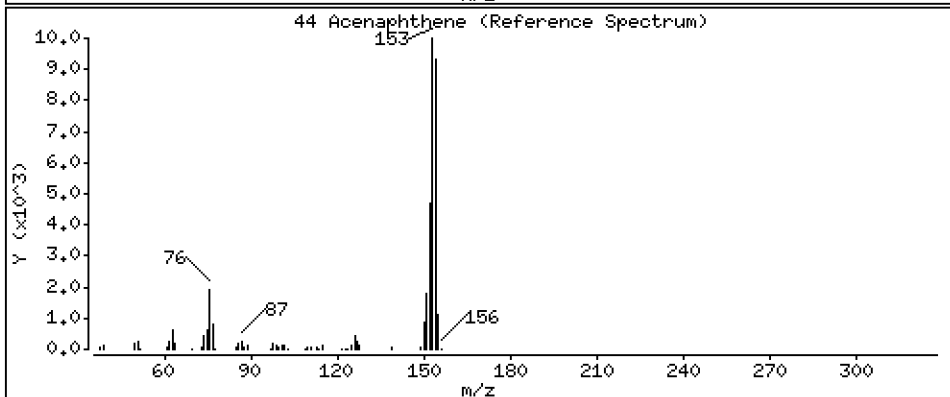
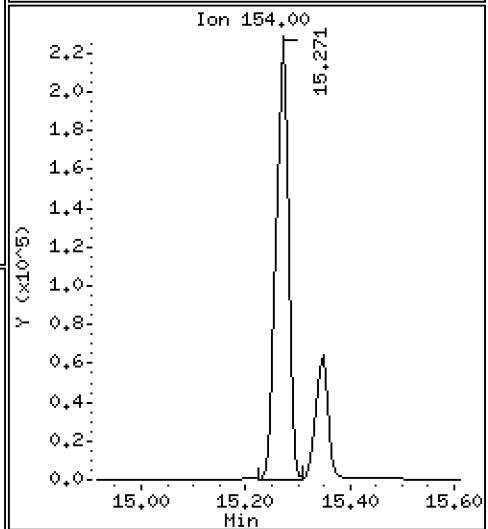
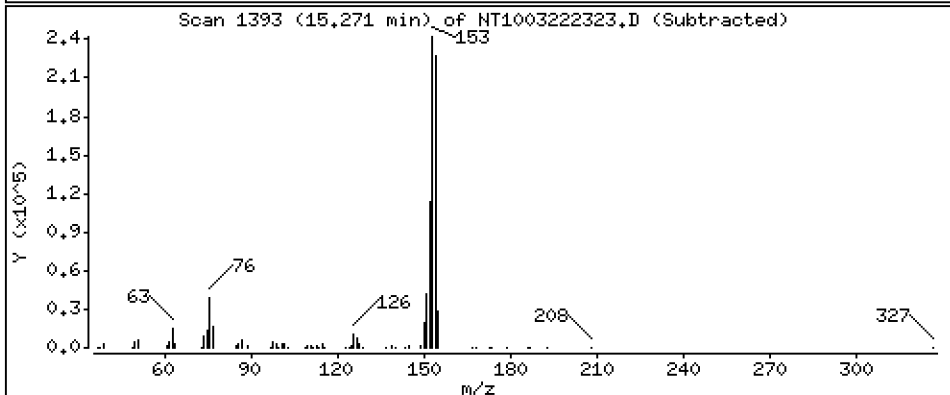
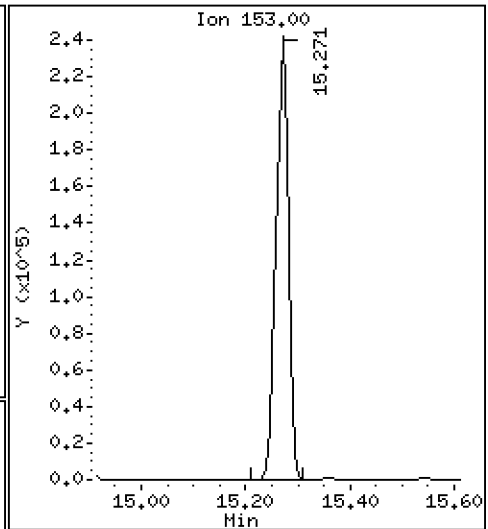
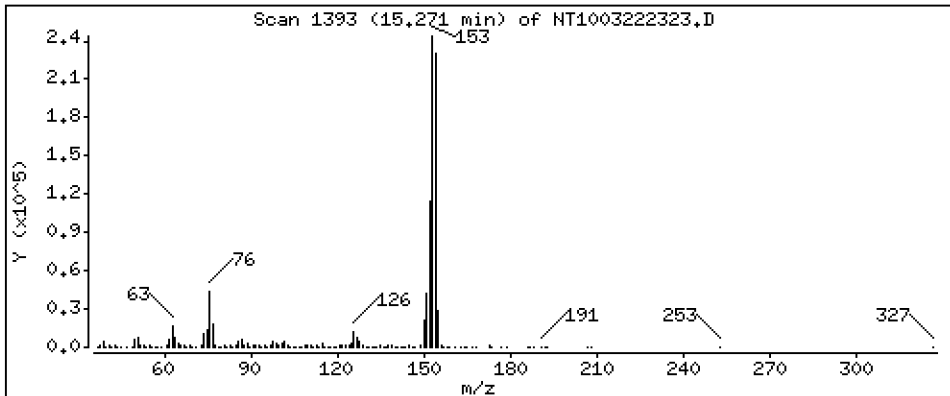
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,256 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

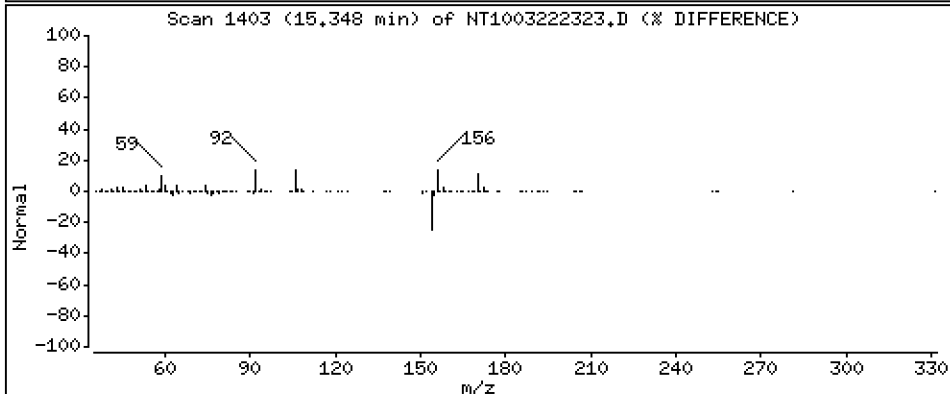
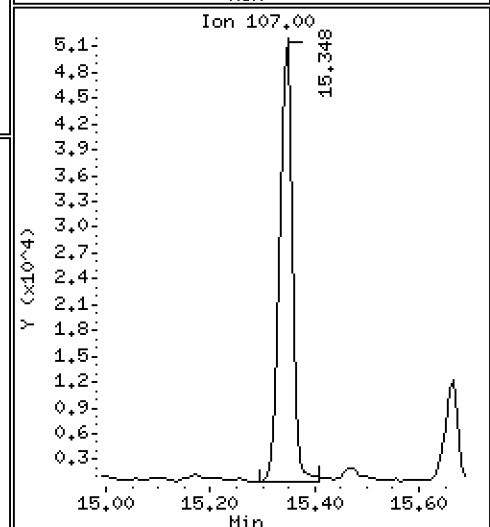
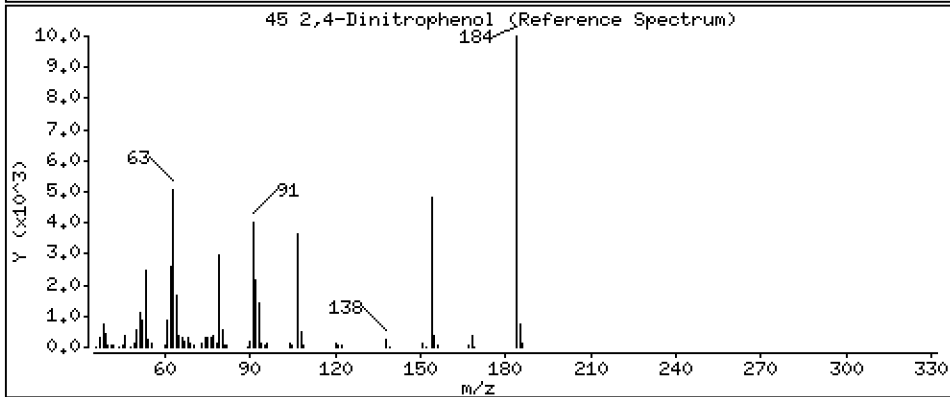
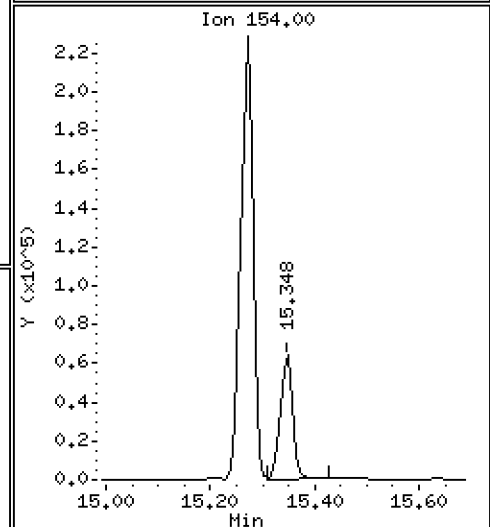
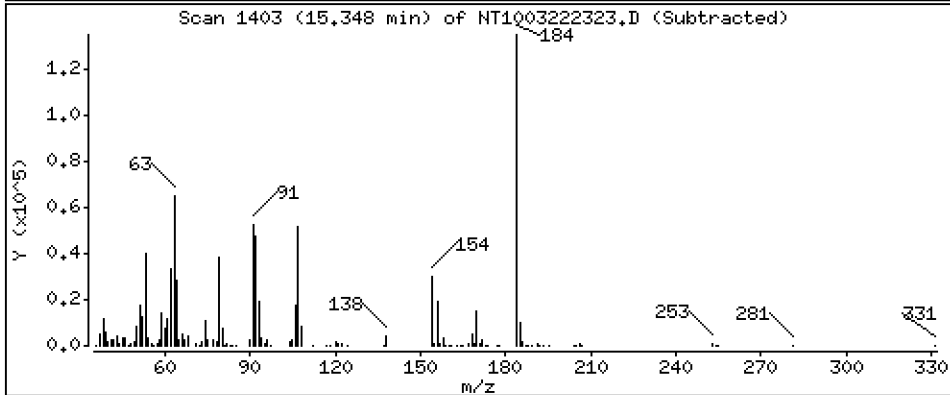
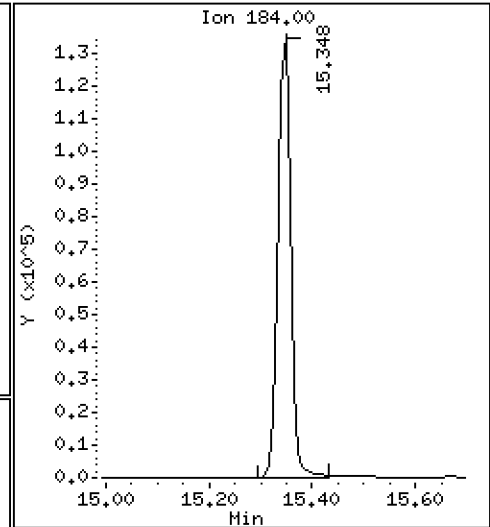
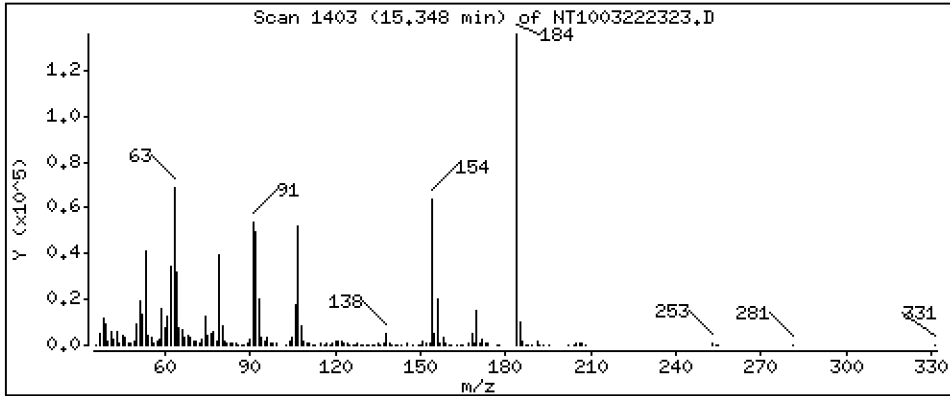
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 16,72 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

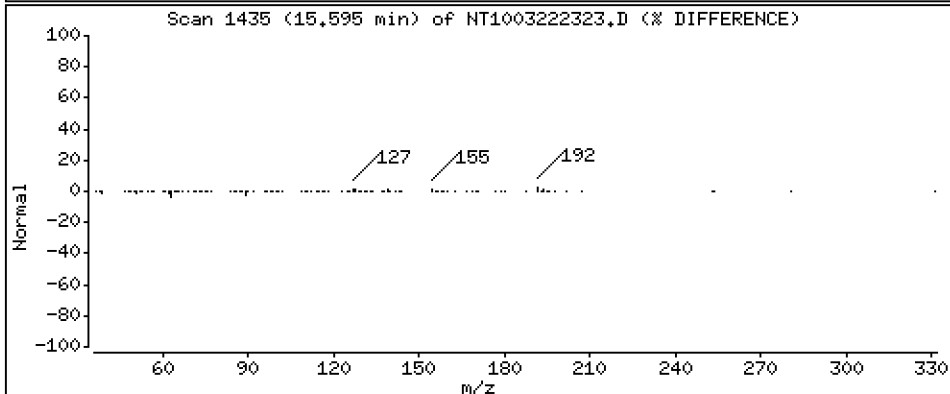
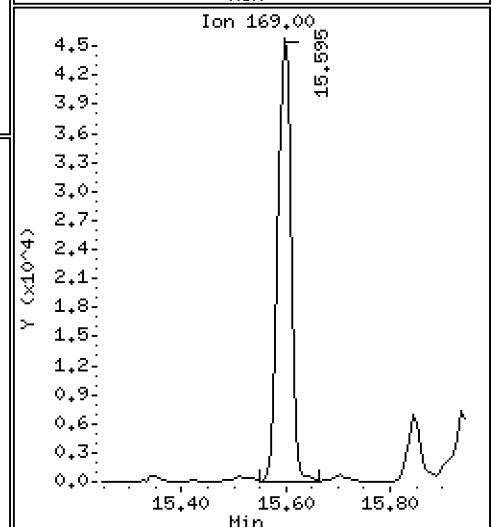
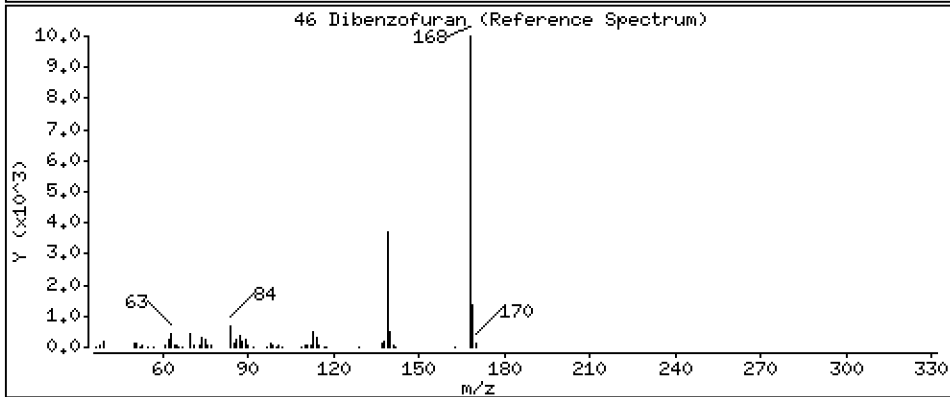
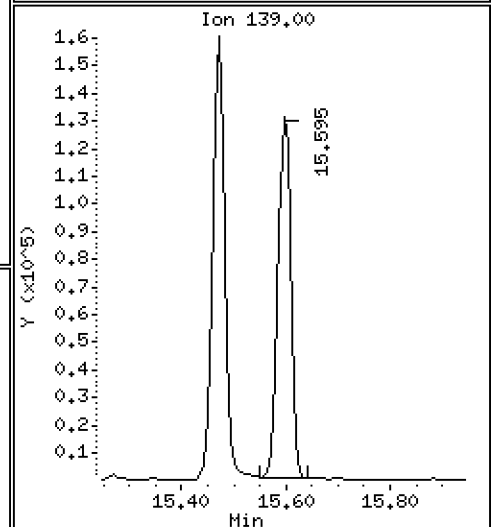
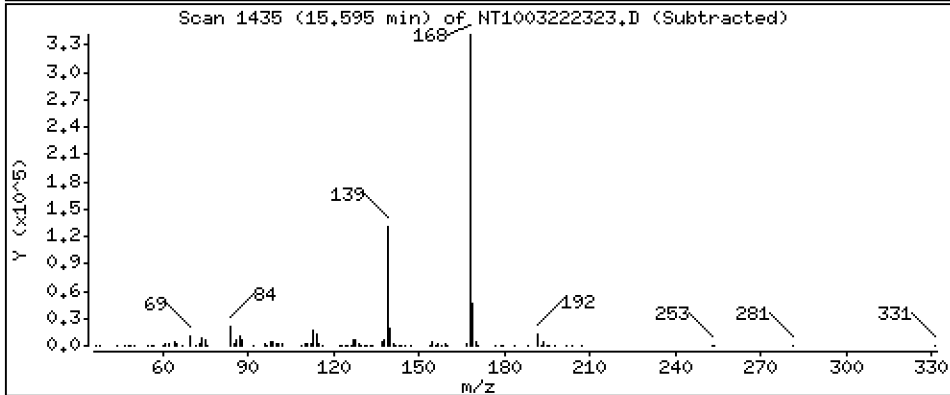
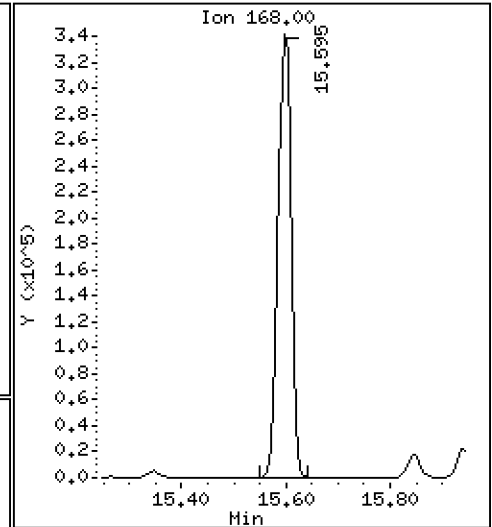
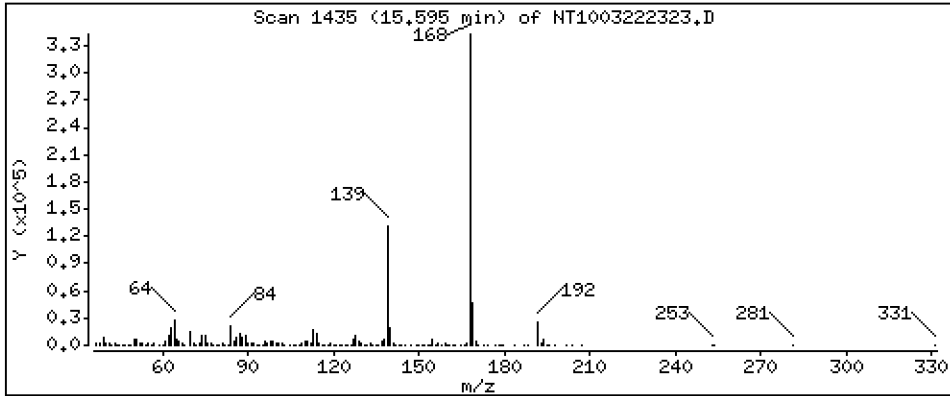
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,262 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

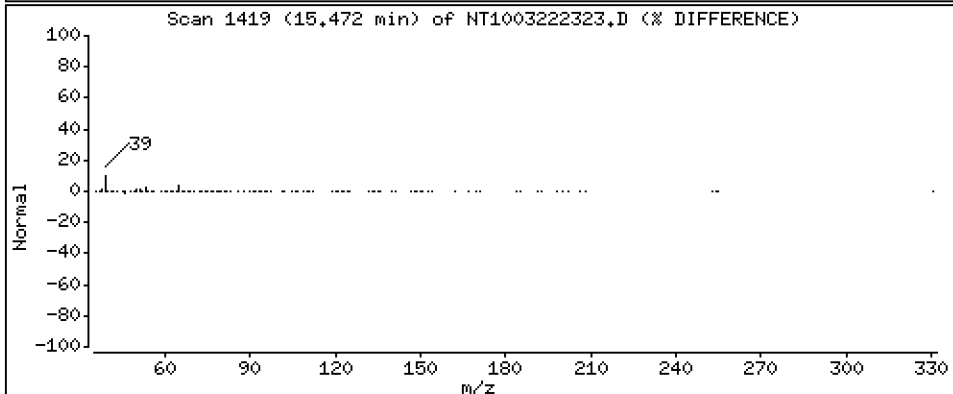
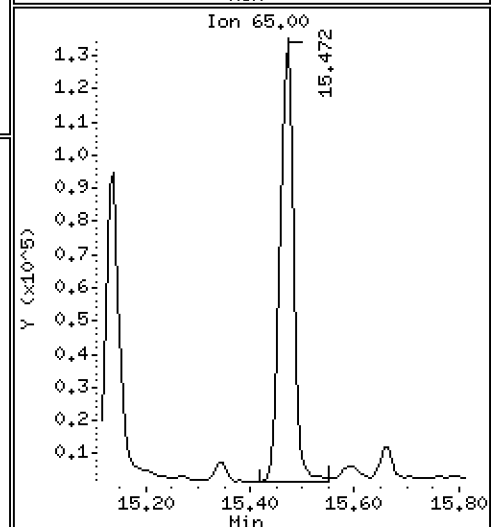
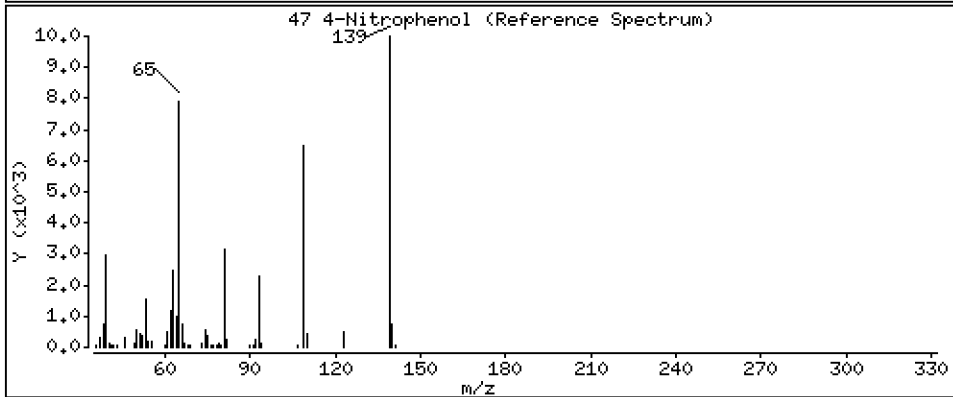
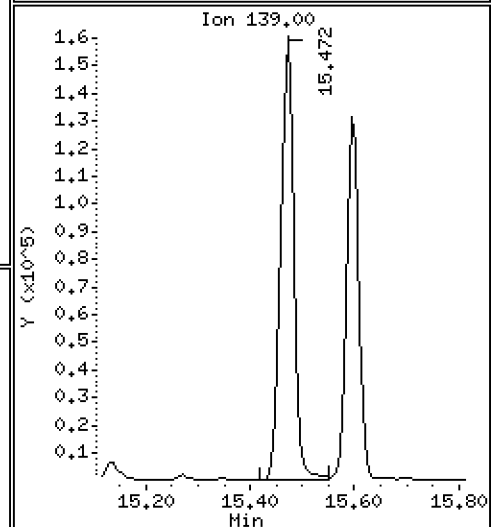
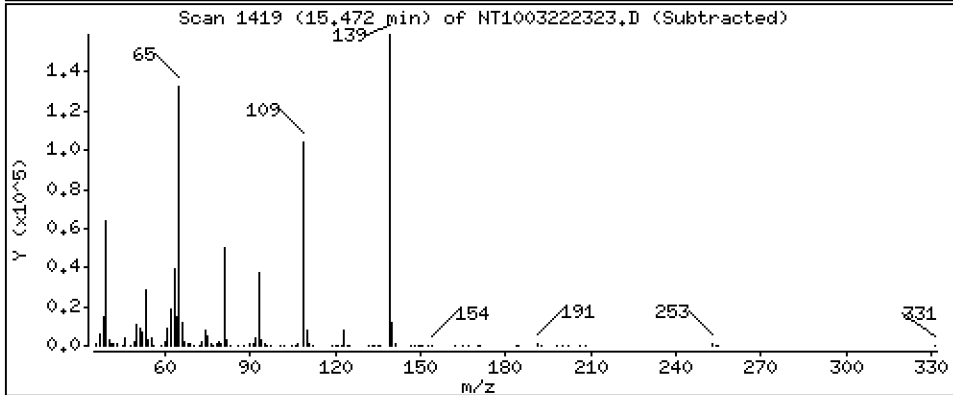
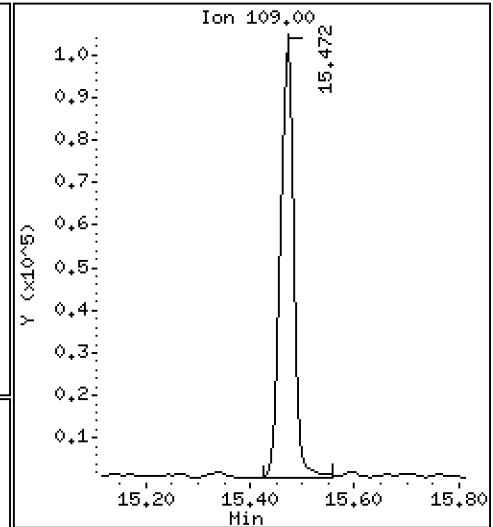
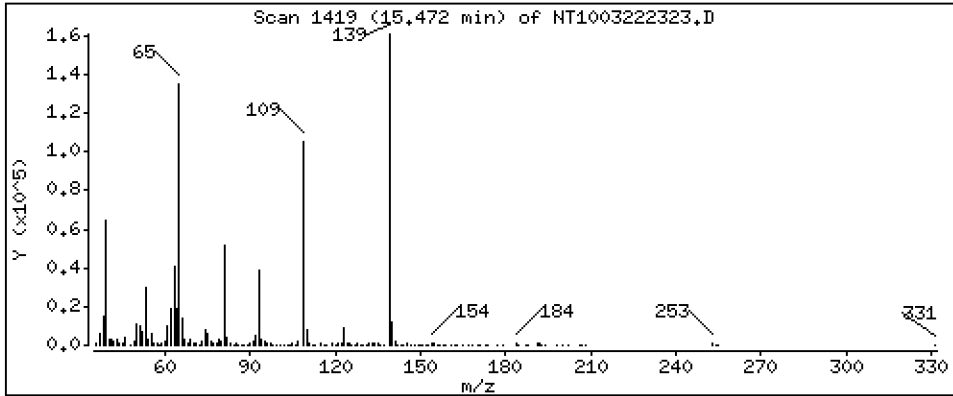
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 12,20 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

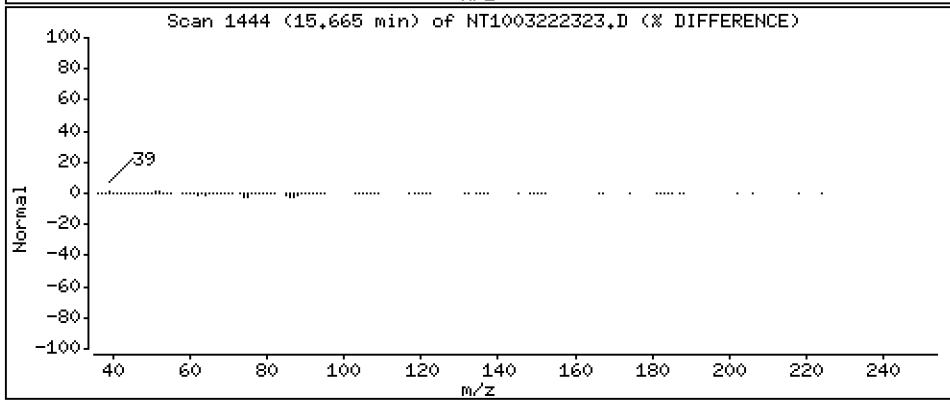
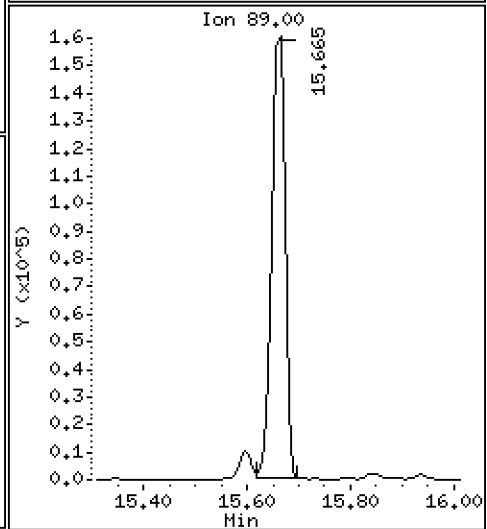
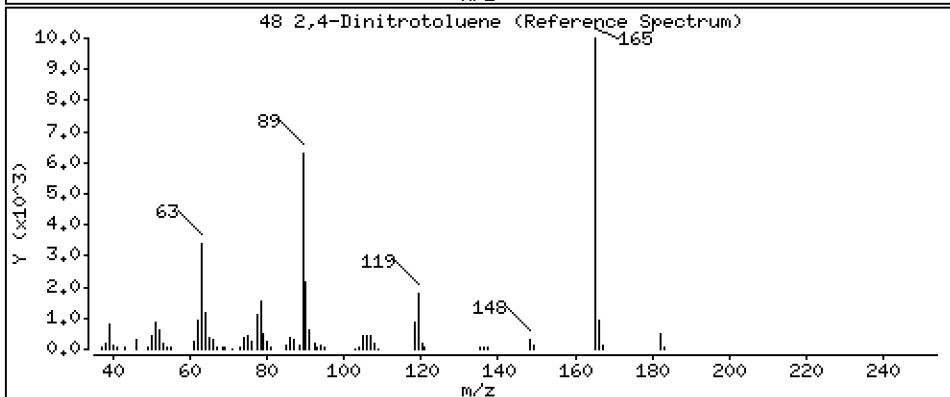
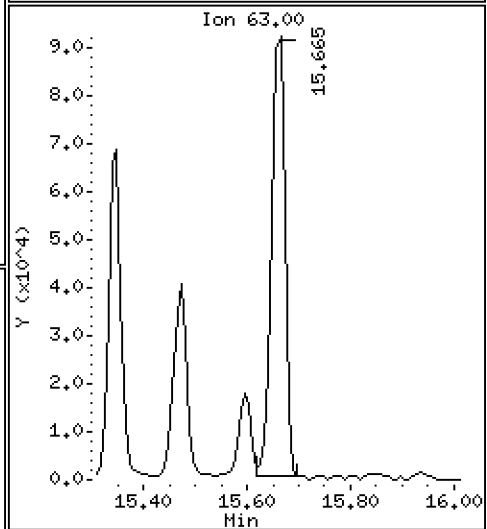
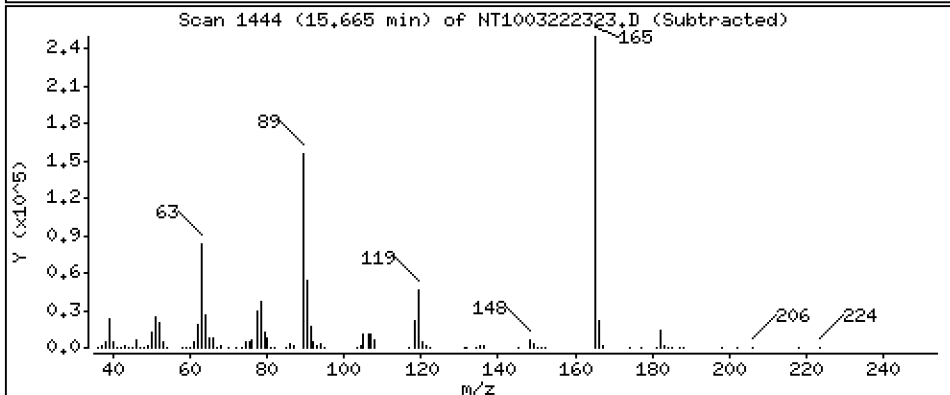
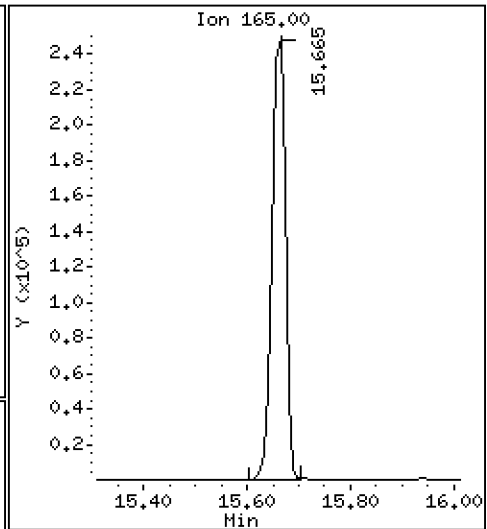
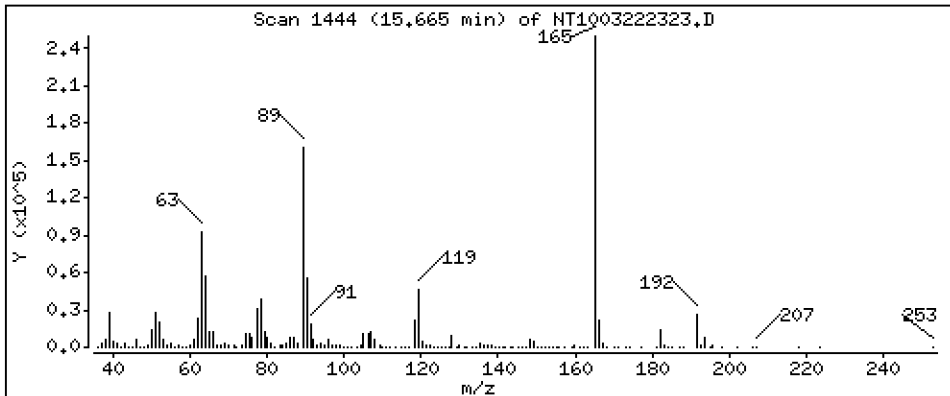
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 13,72 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

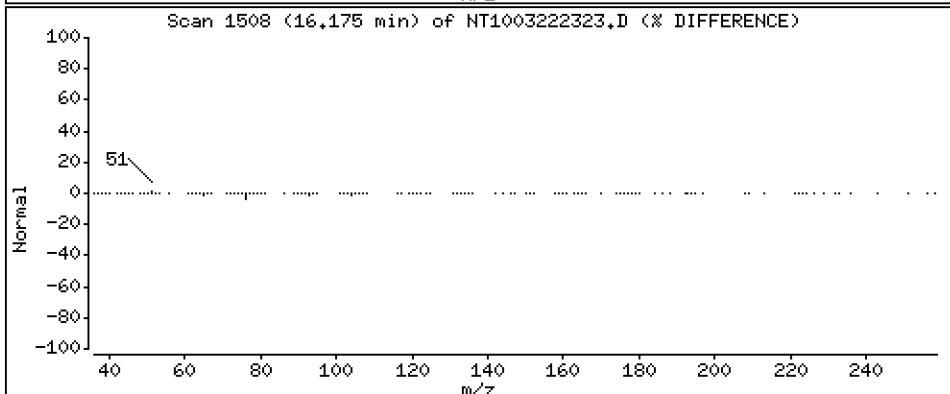
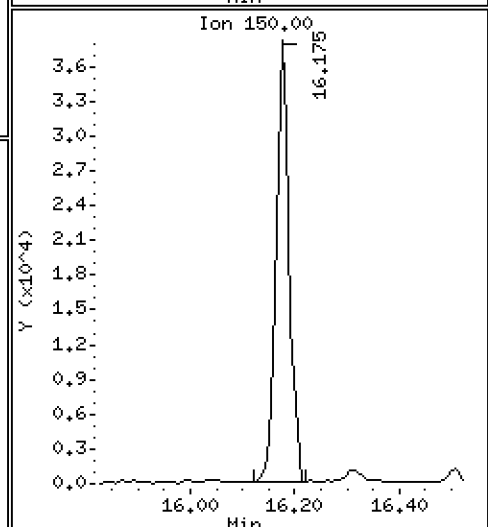
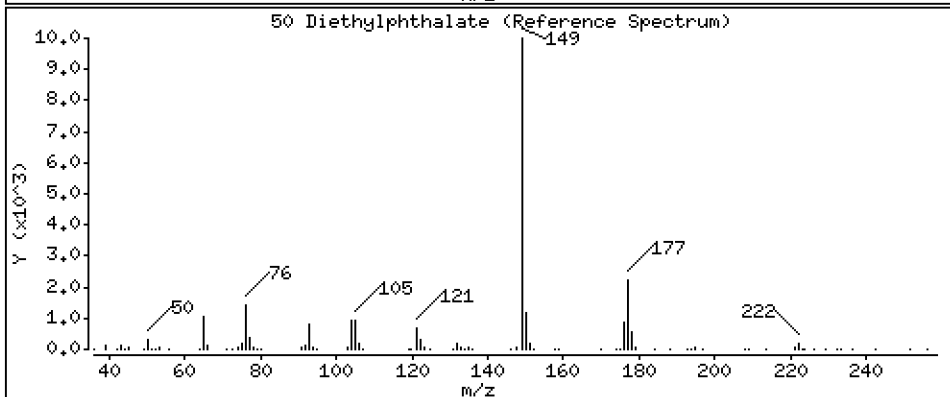
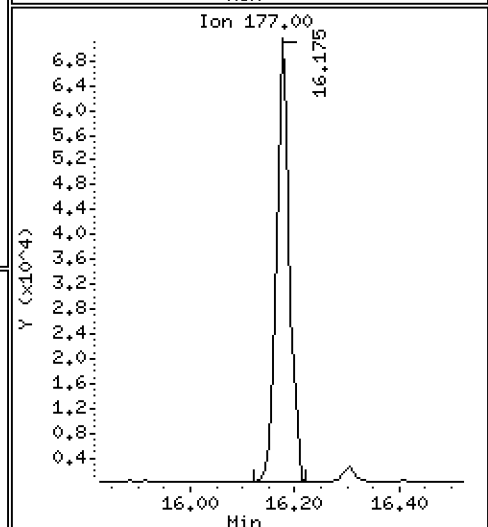
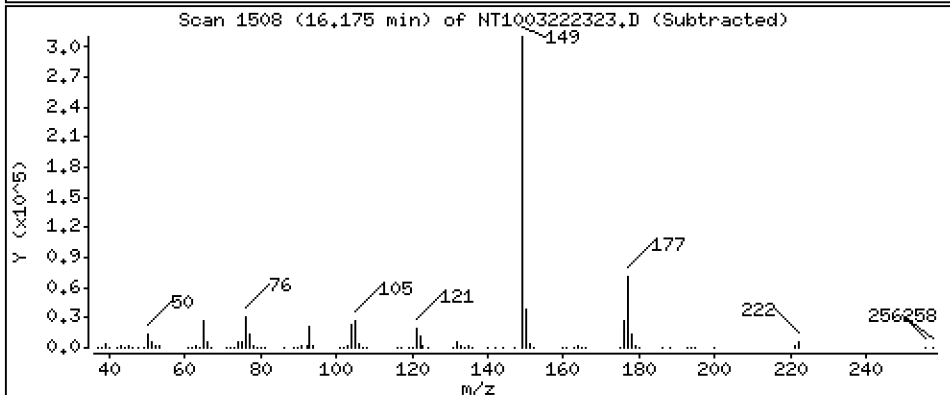
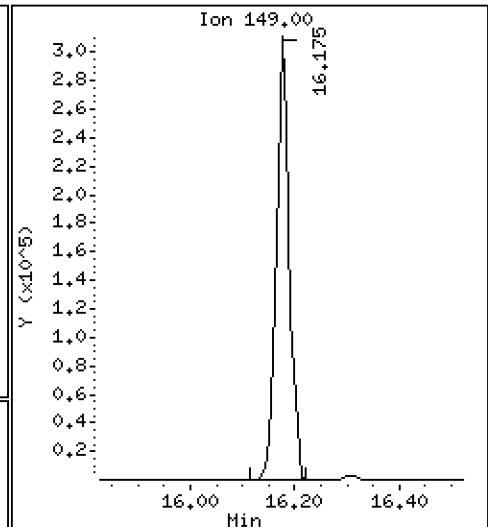
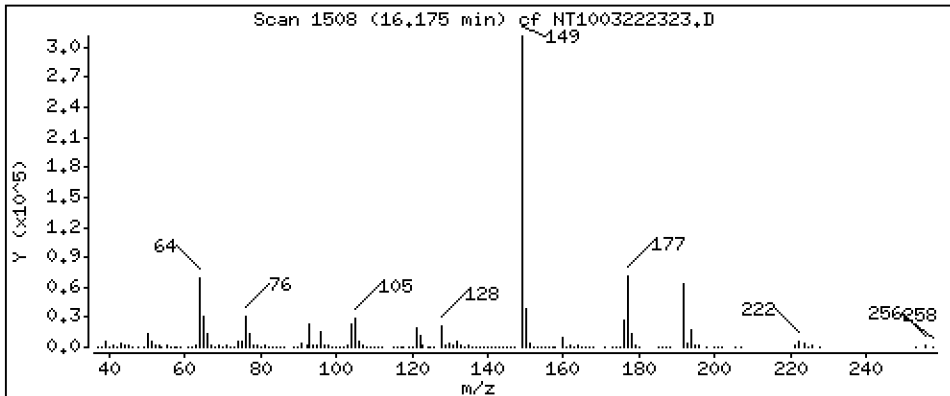
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,808 ug/mL





Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

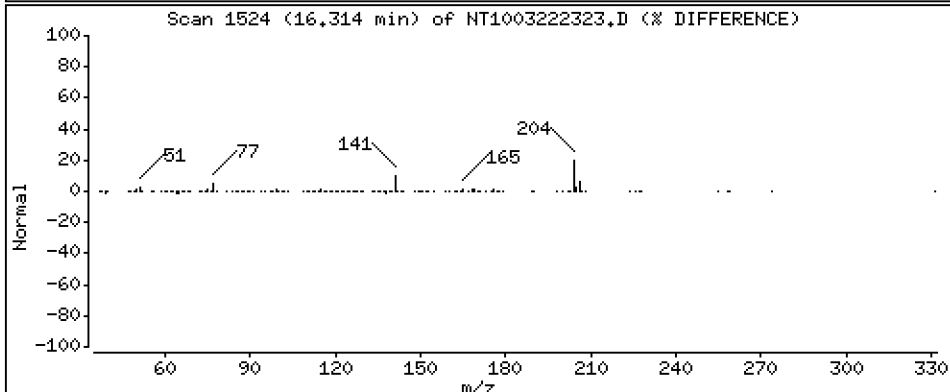
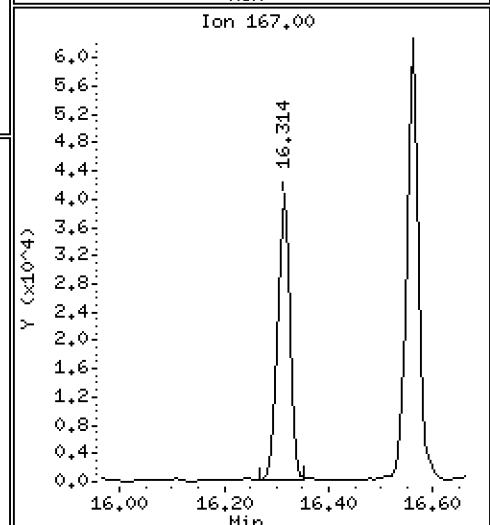
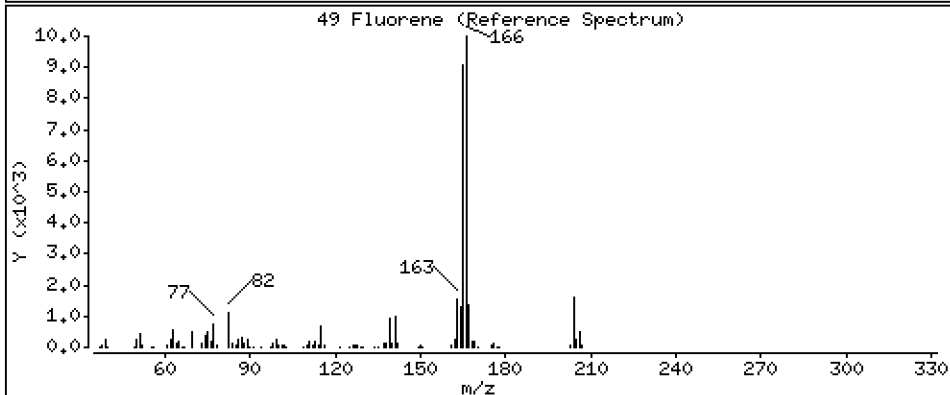
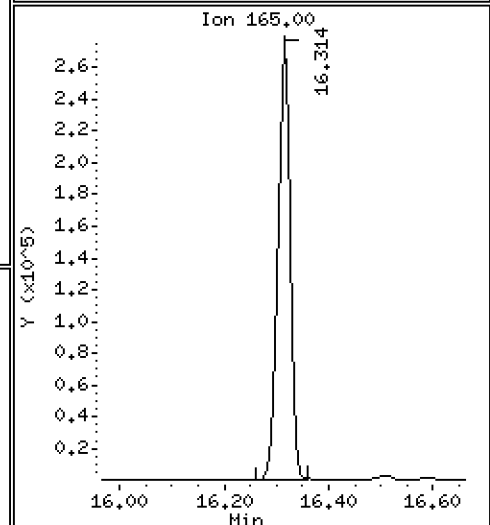
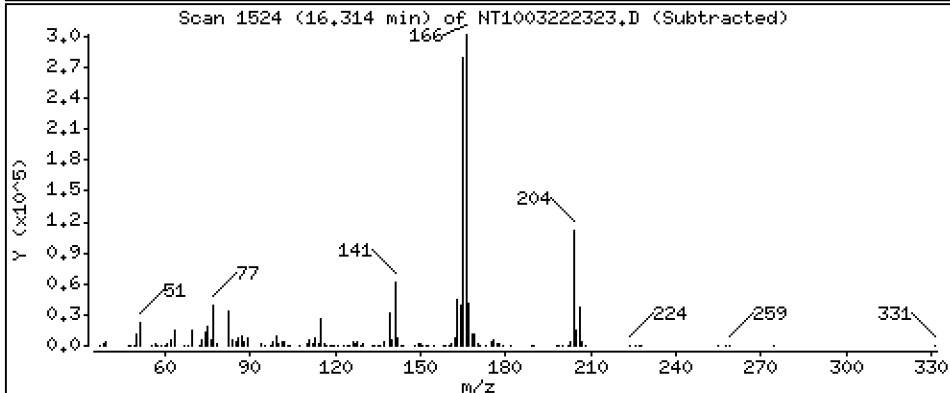
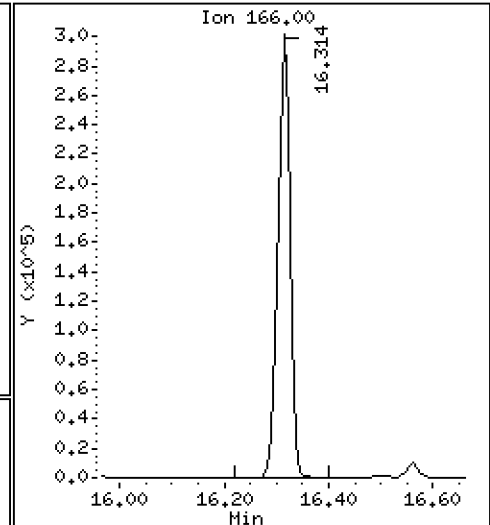
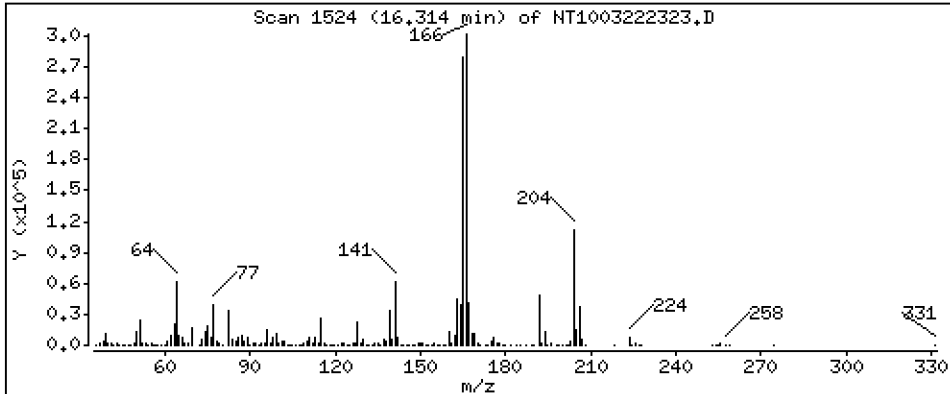
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,513 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

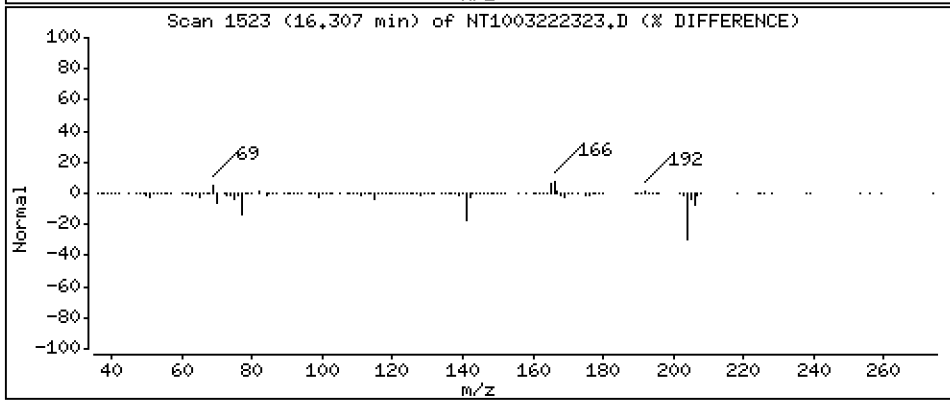
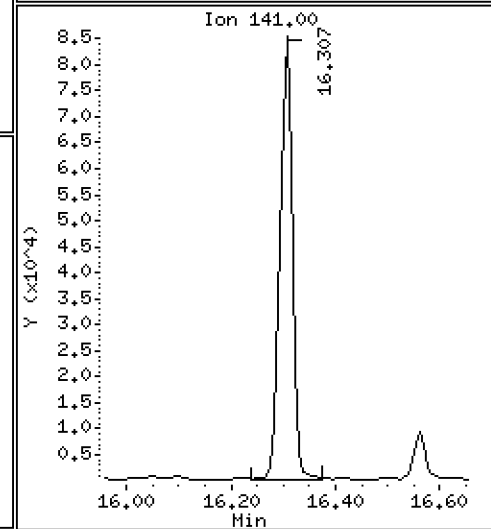
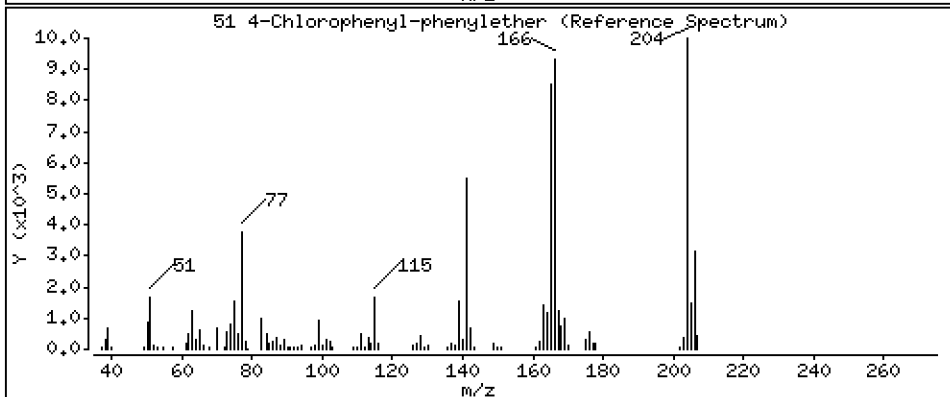
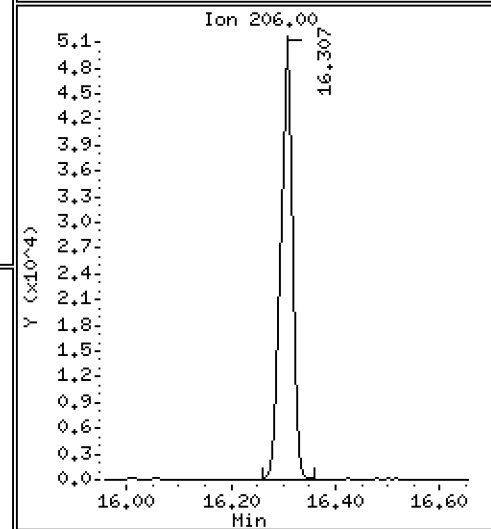
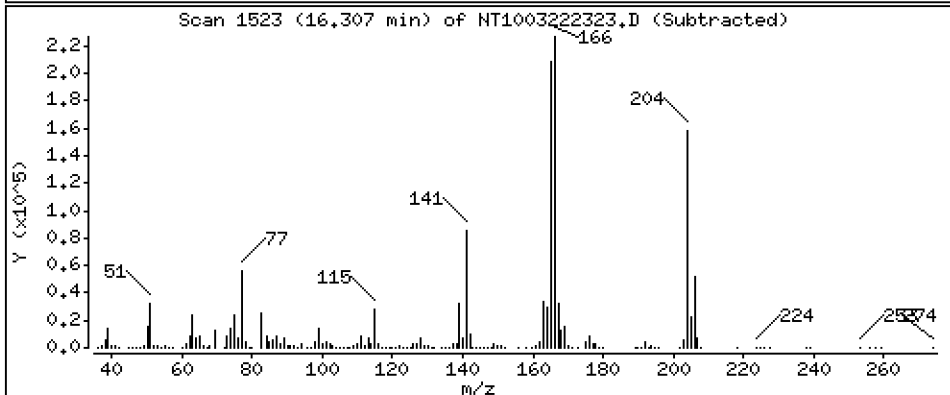
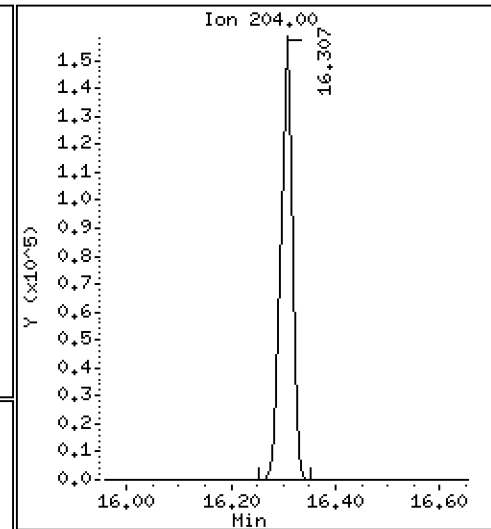
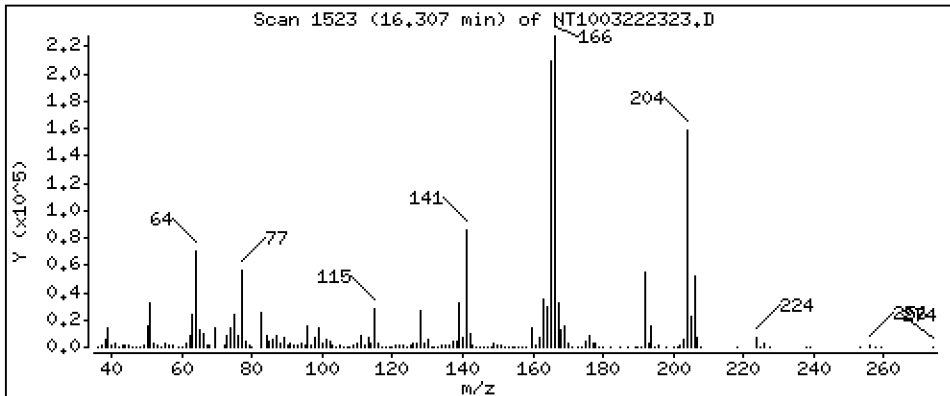
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,726 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

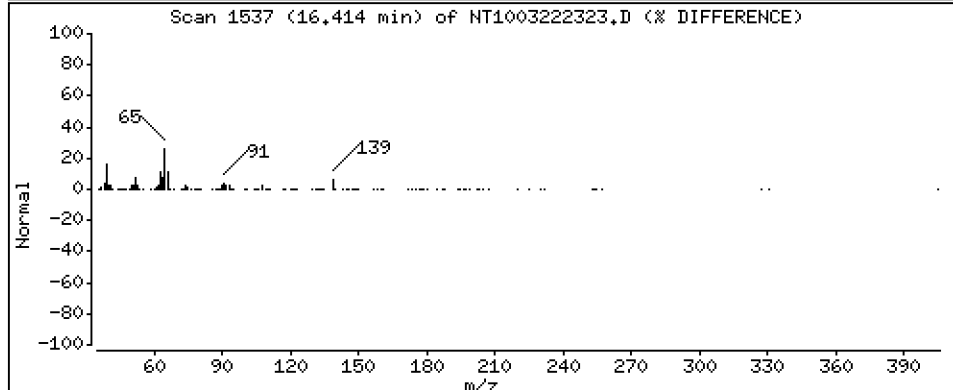
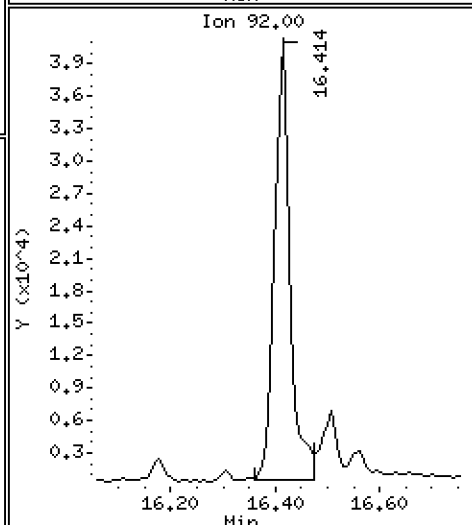
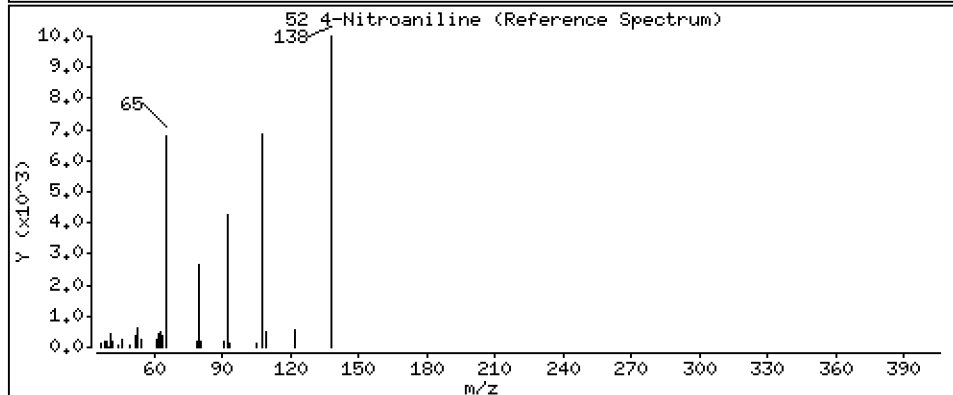
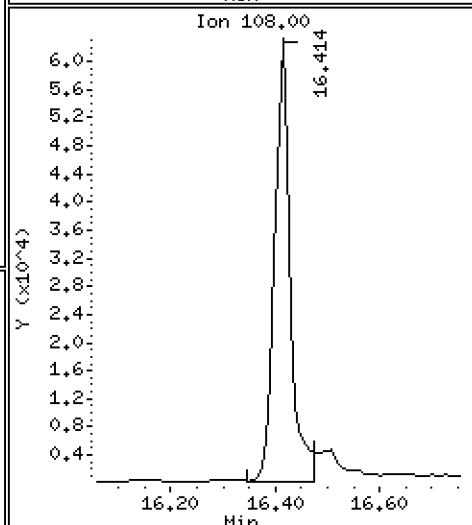
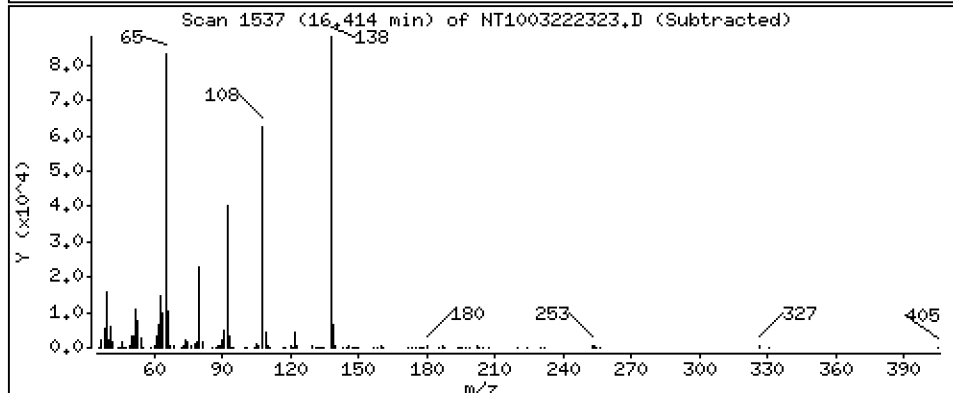
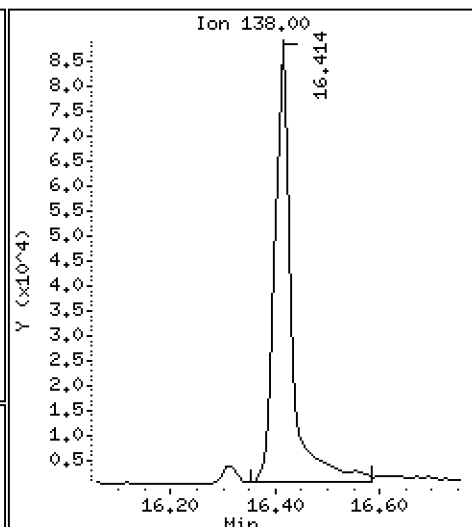
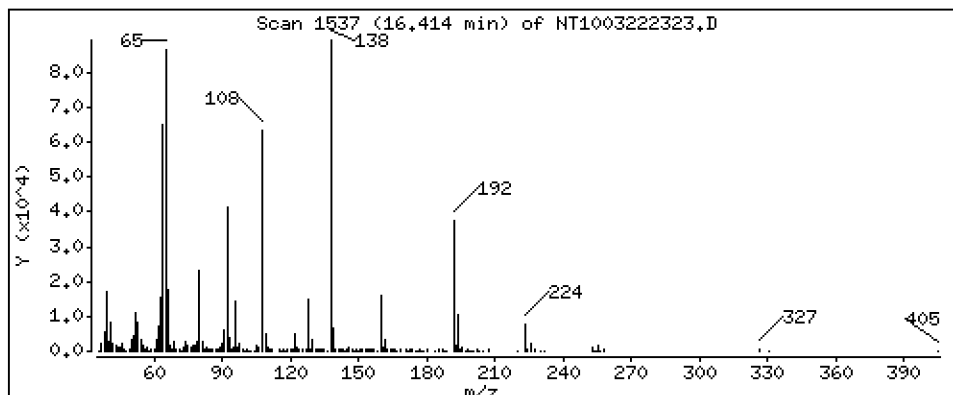
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 9,228 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

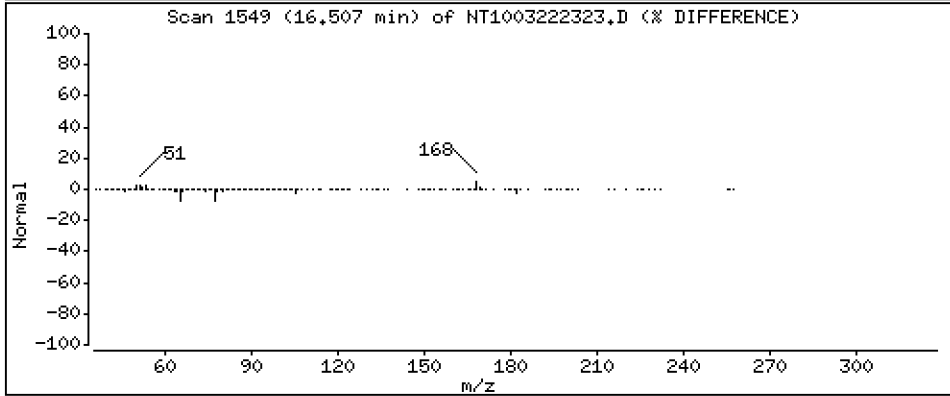
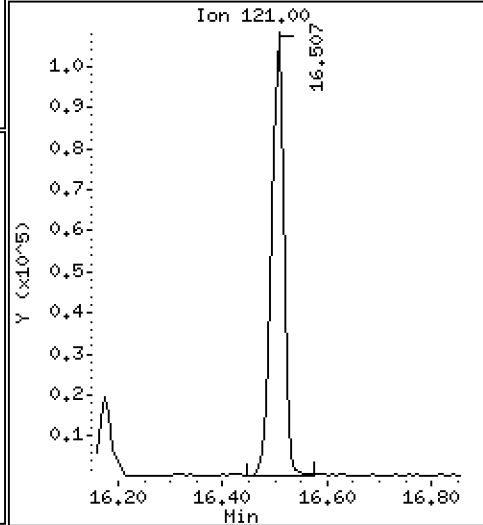
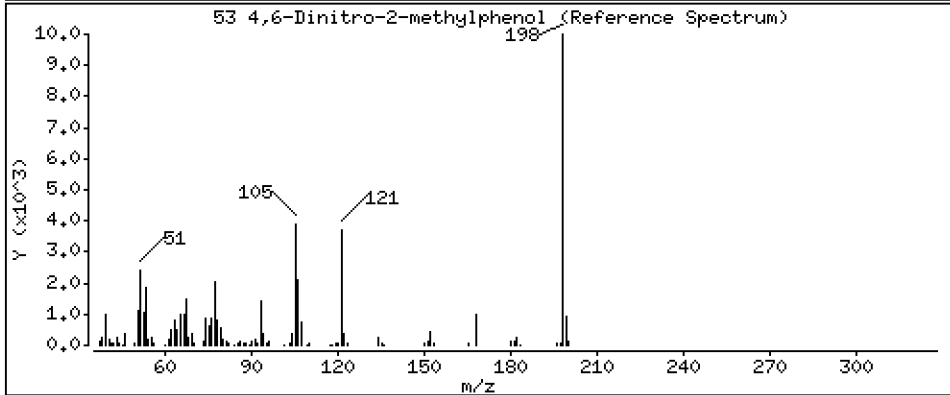
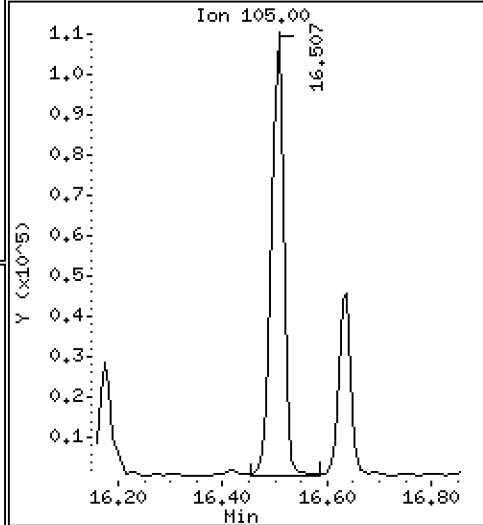
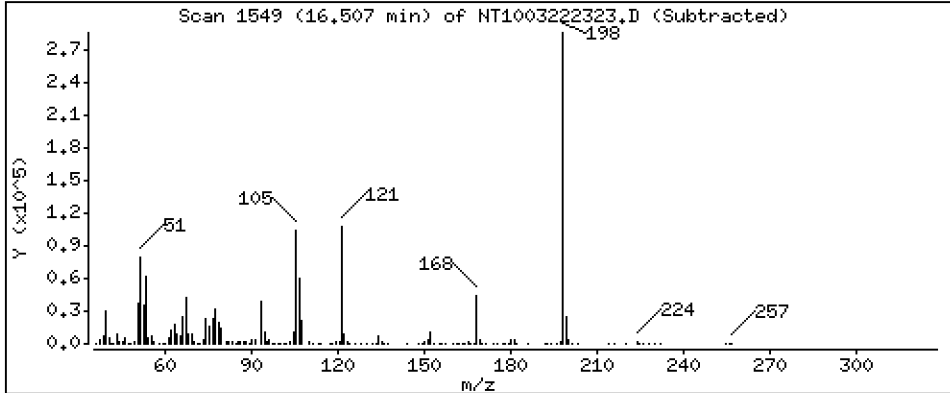
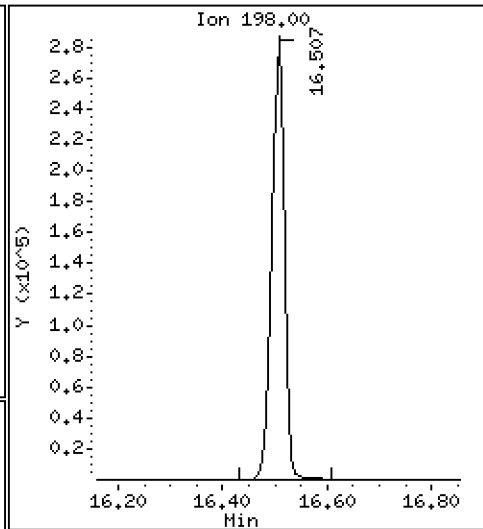
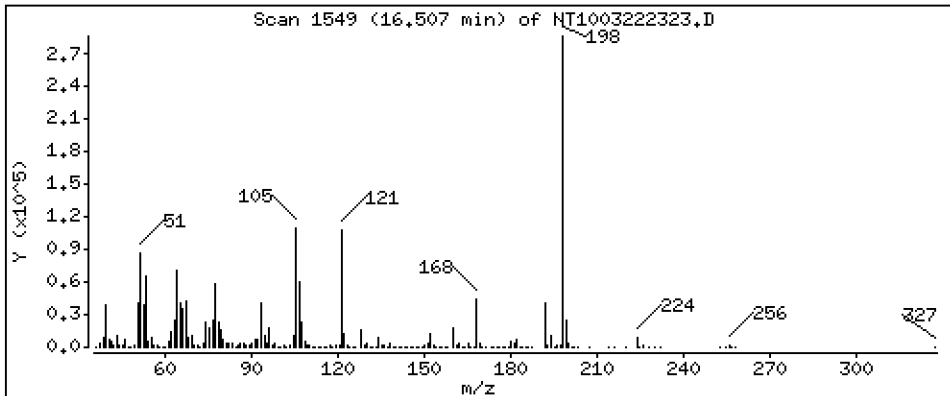
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 25,21 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

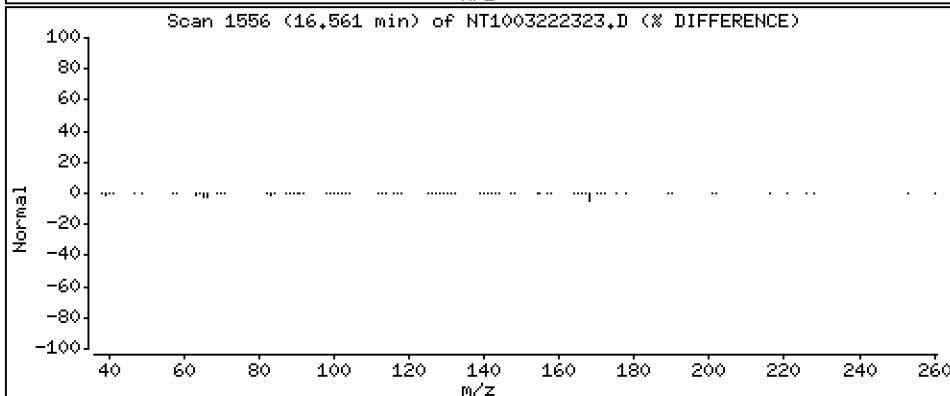
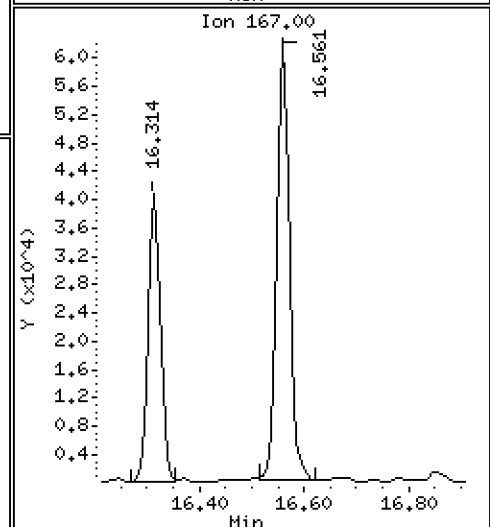
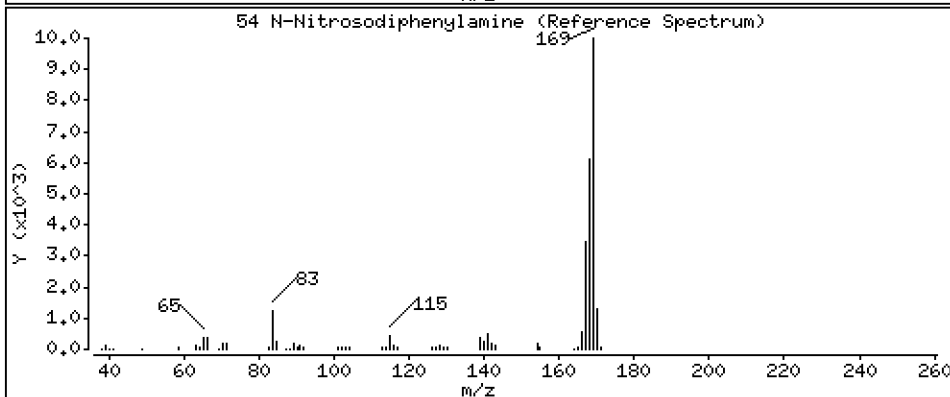
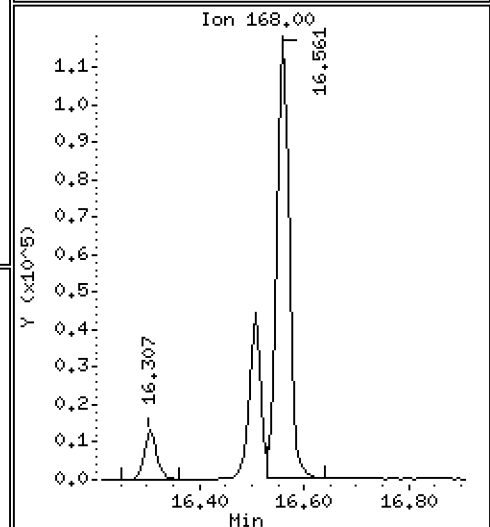
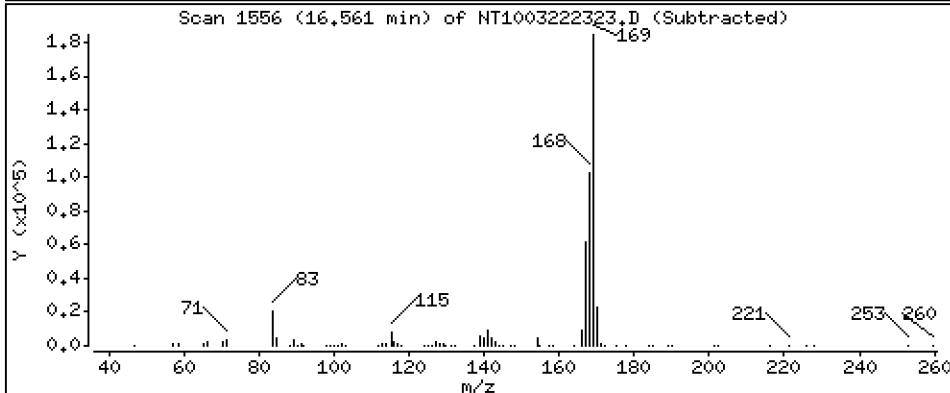
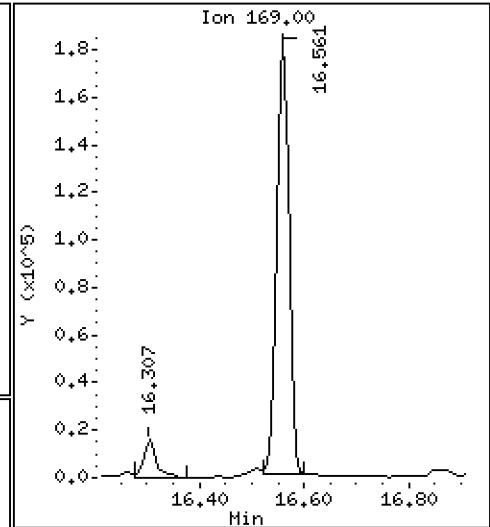
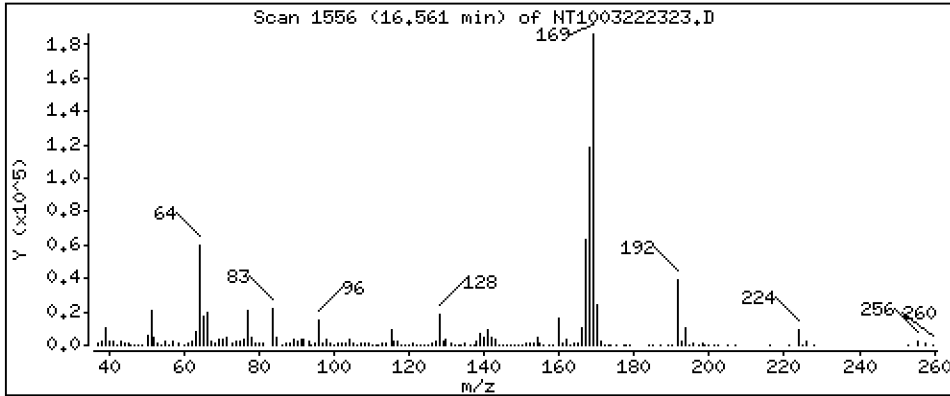
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 3,616 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

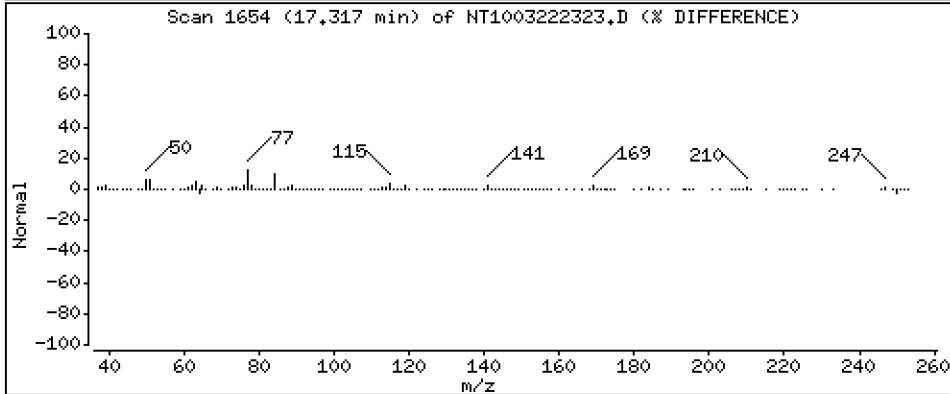
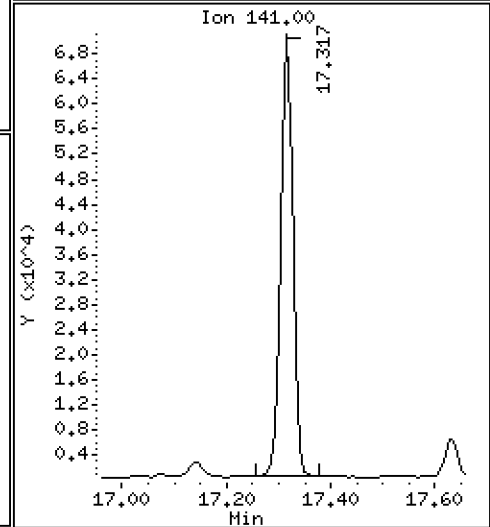
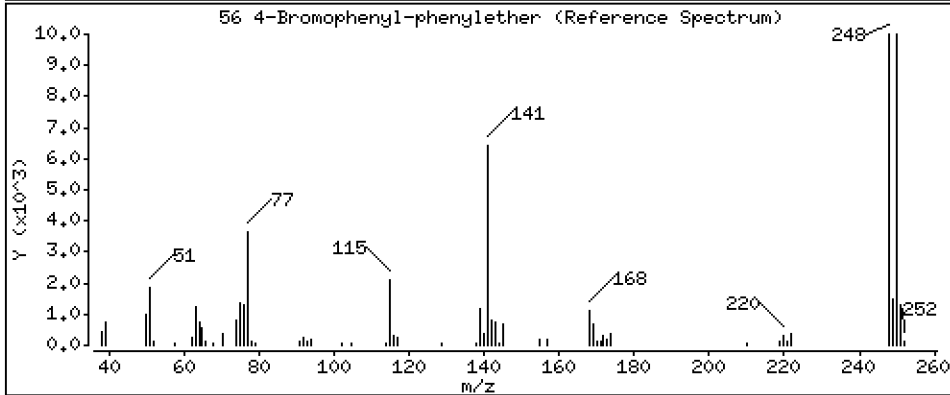
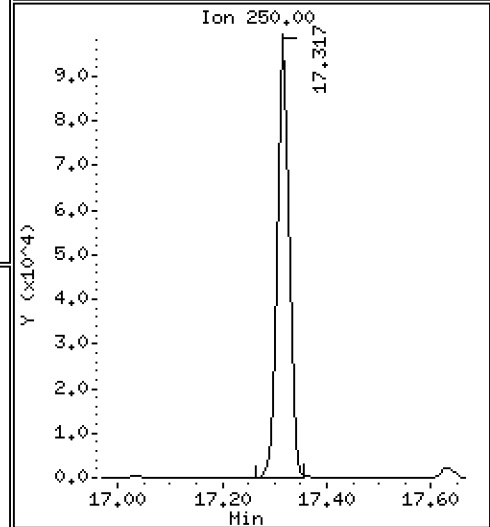
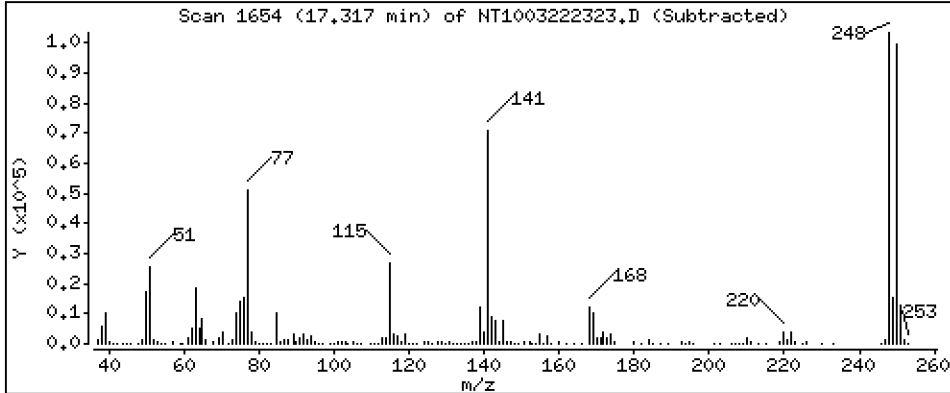
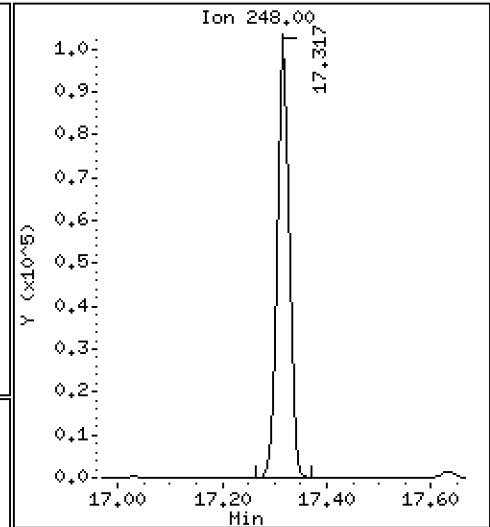
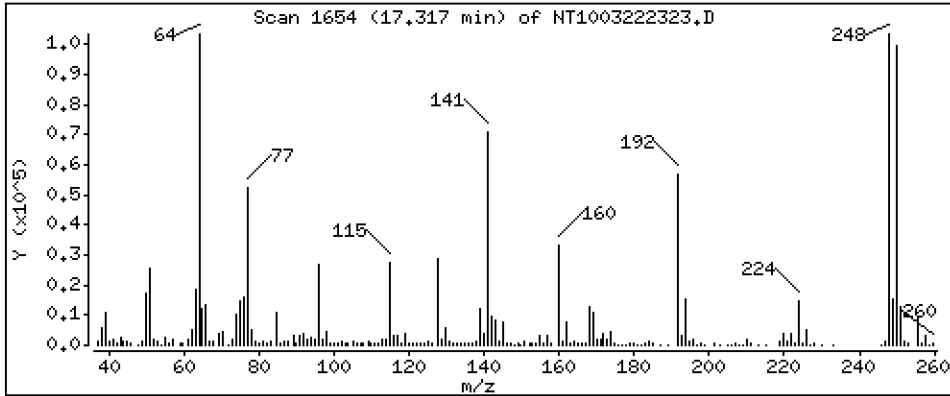
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 4,896 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

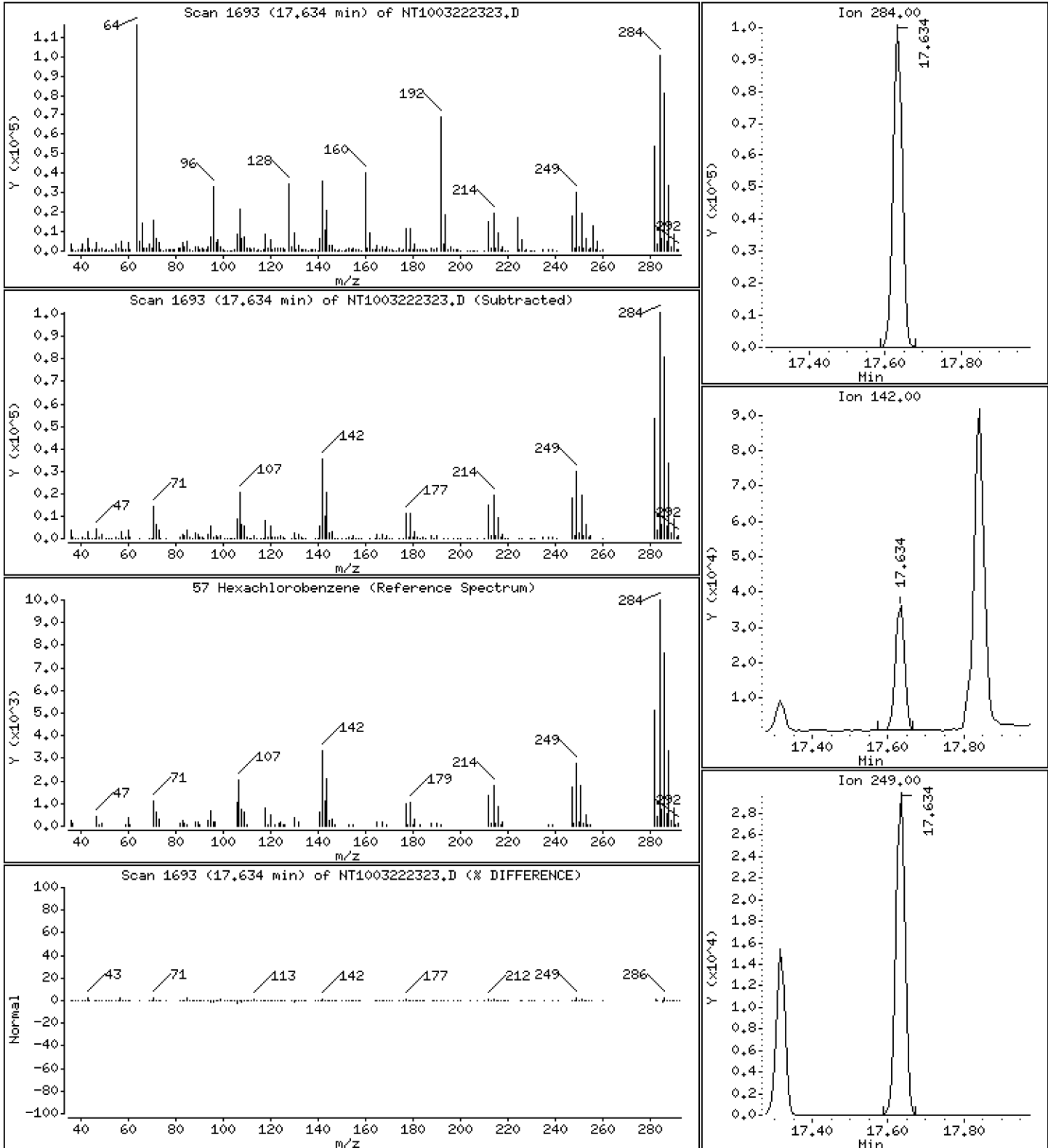
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,681 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

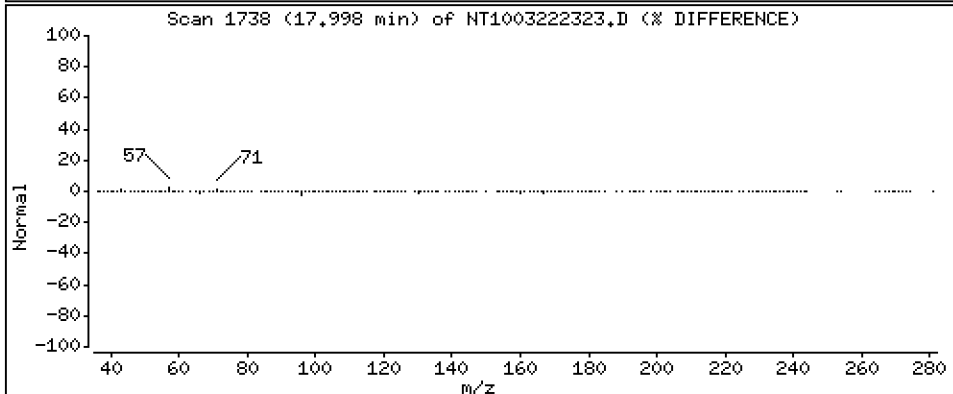
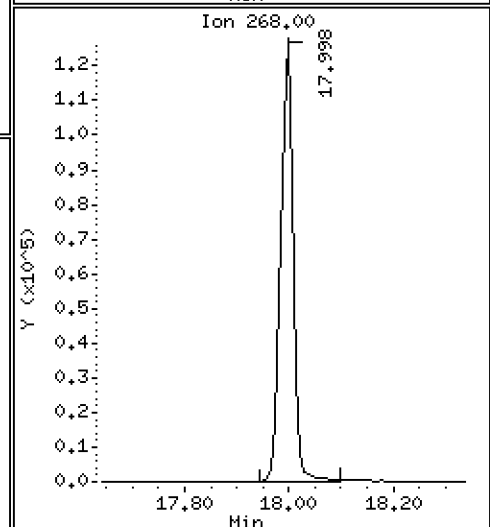
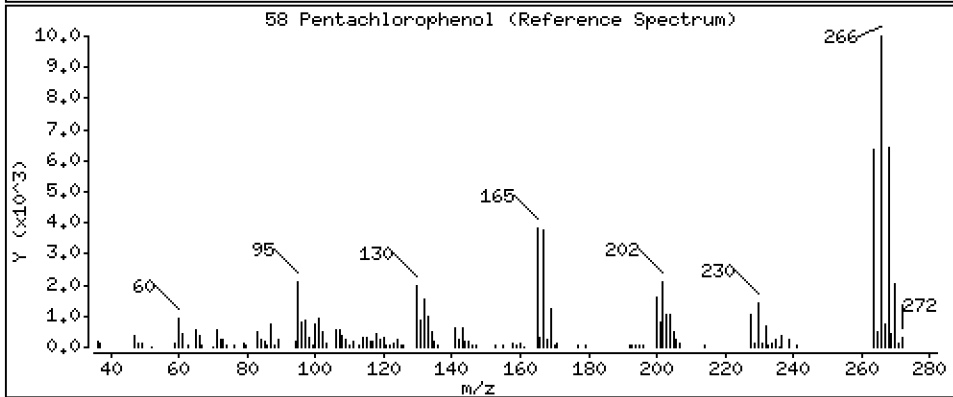
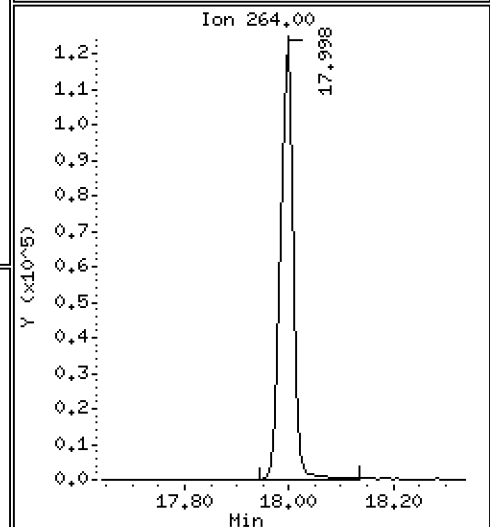
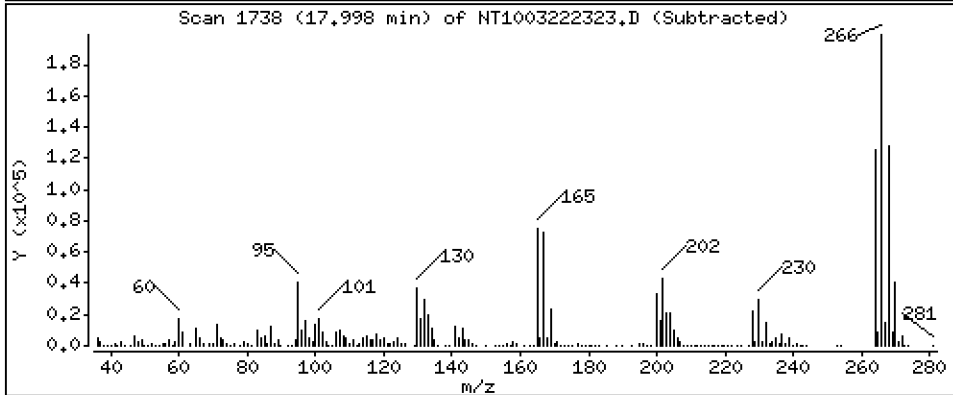
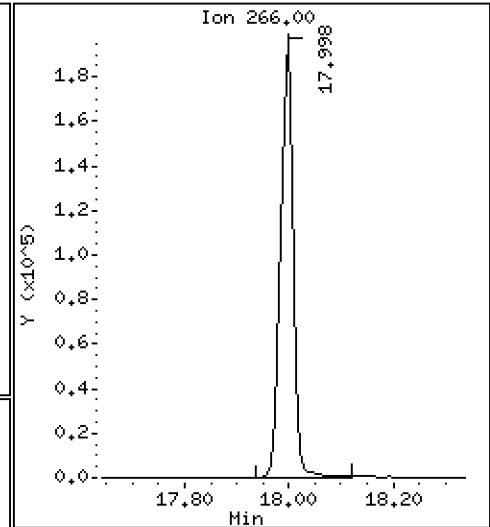
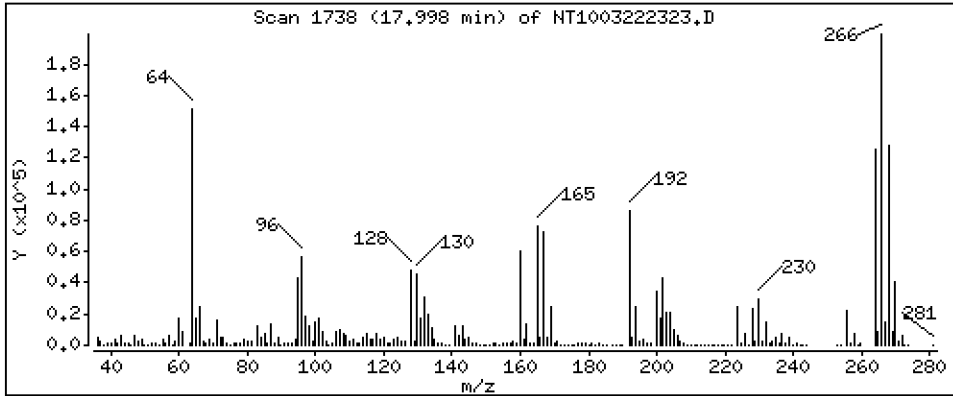
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 15,56 ug/mL





Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

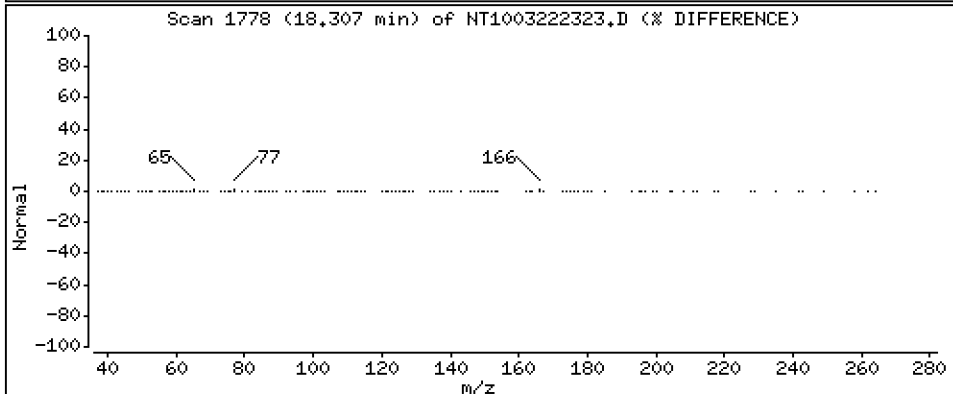
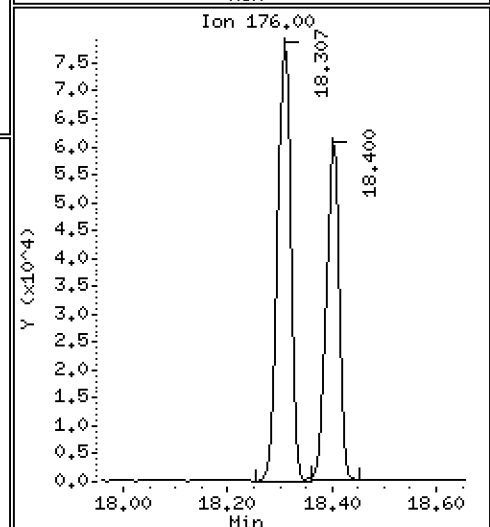
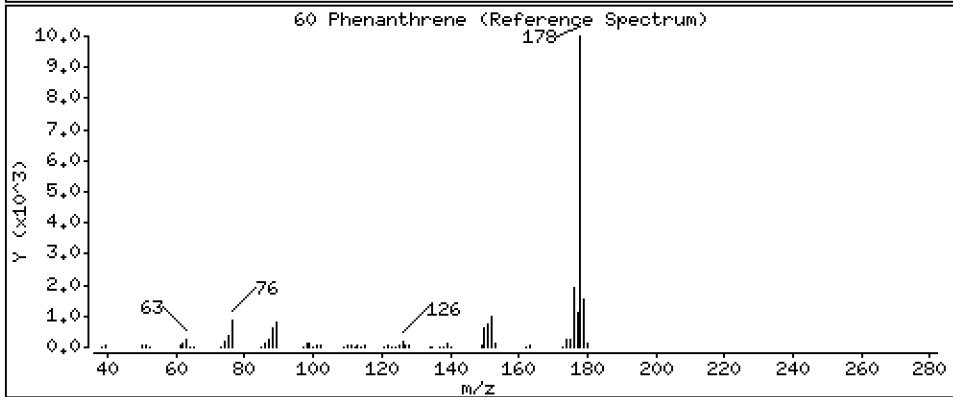
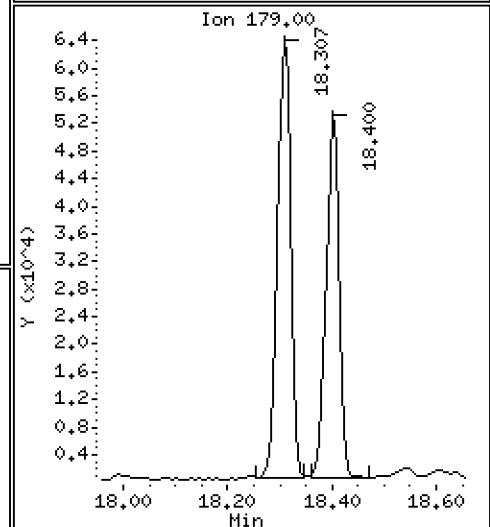
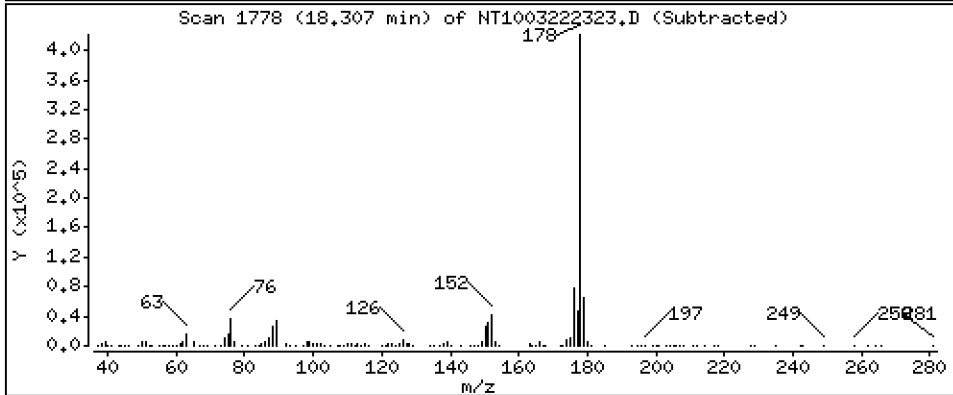
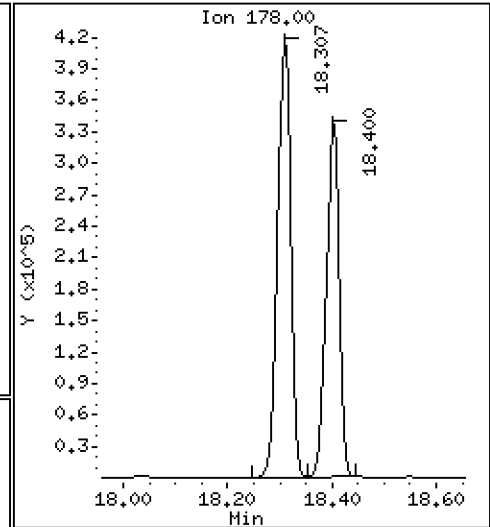
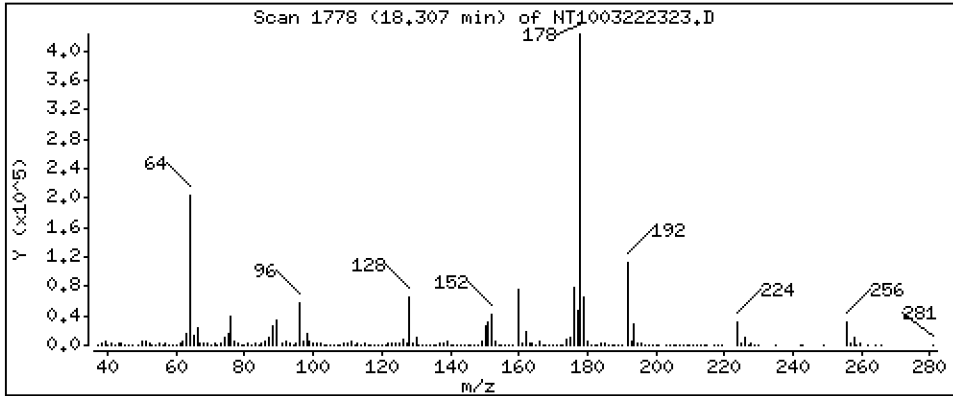
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,460 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

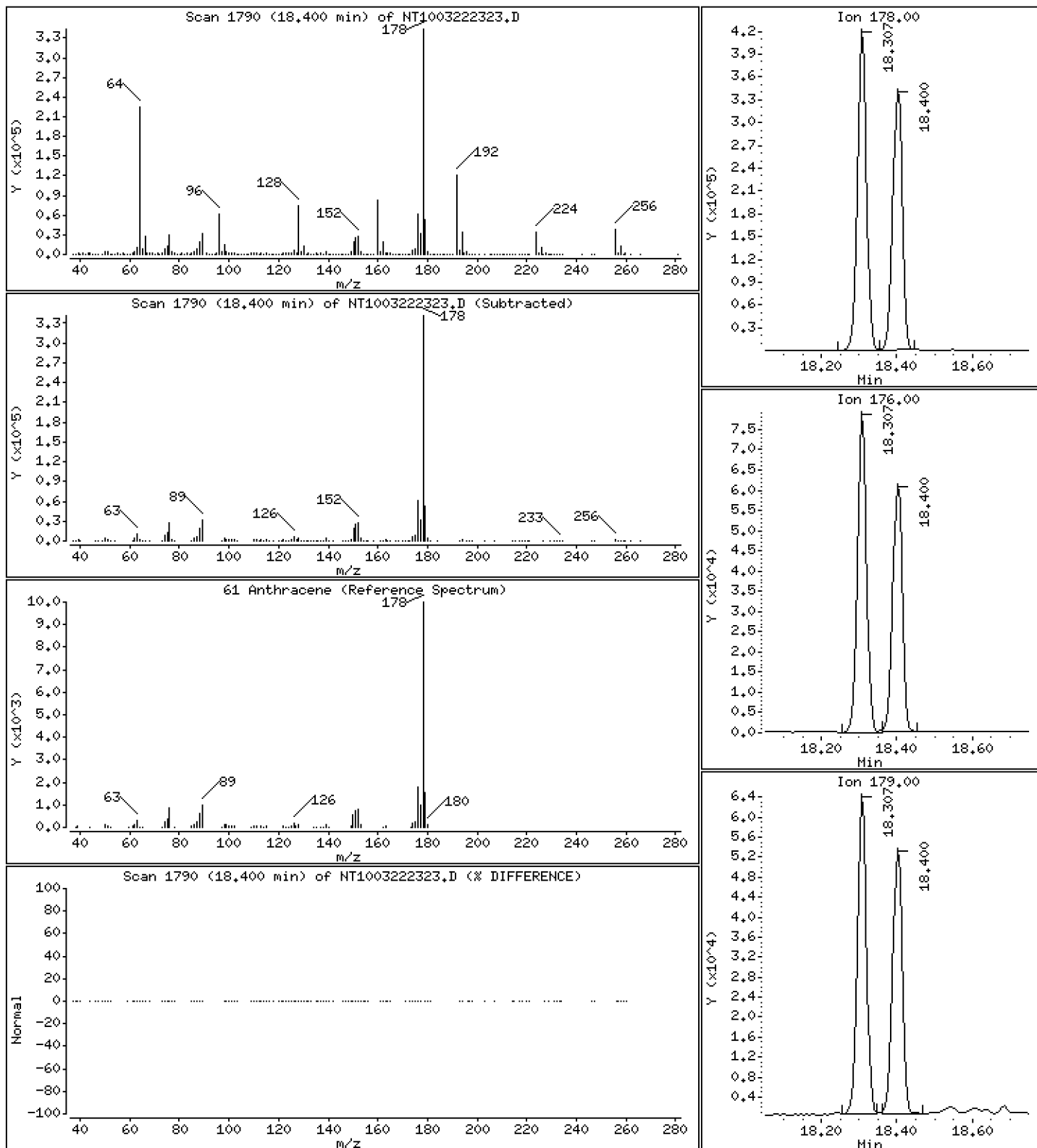
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 3,793 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

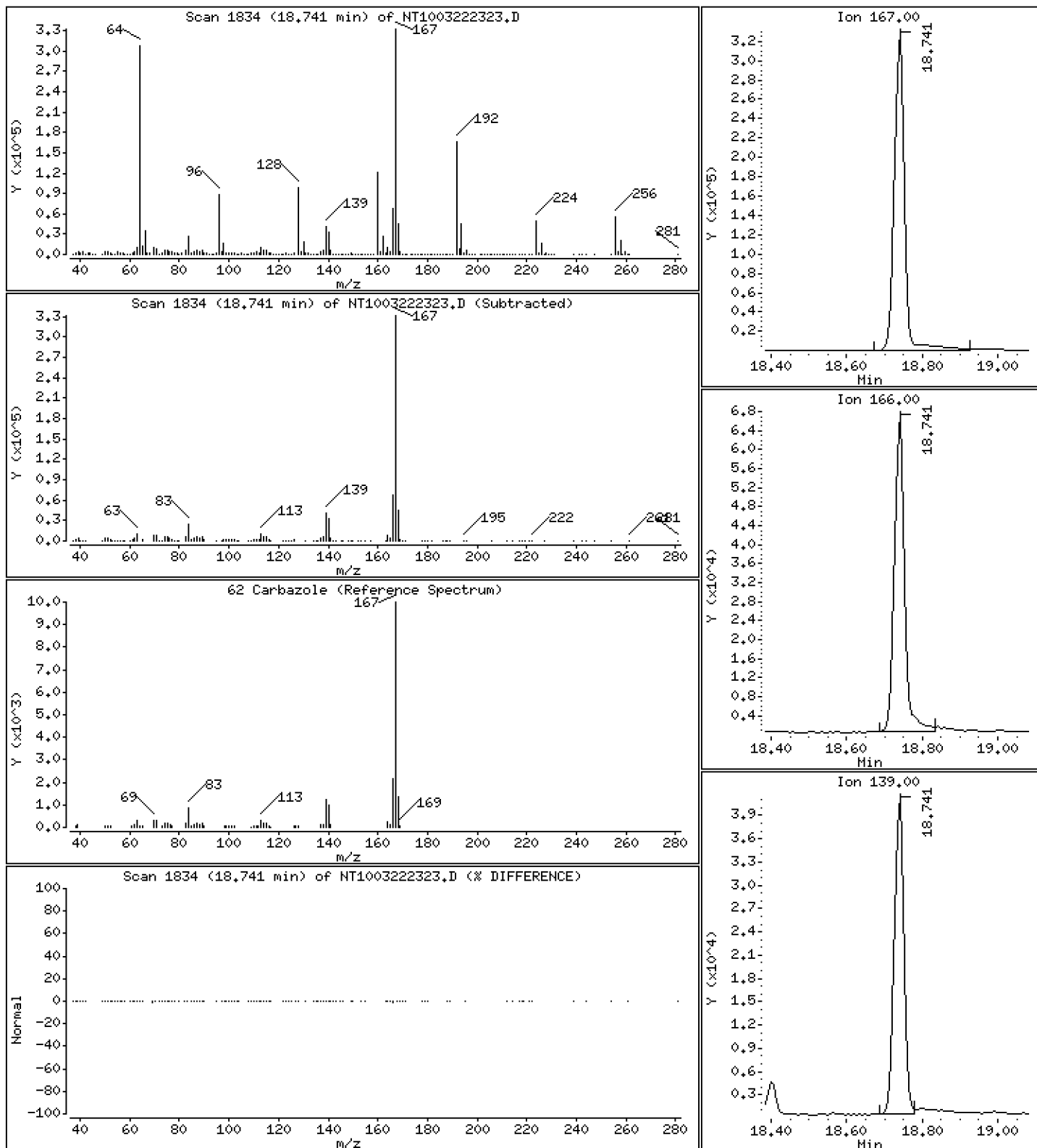
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,376 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

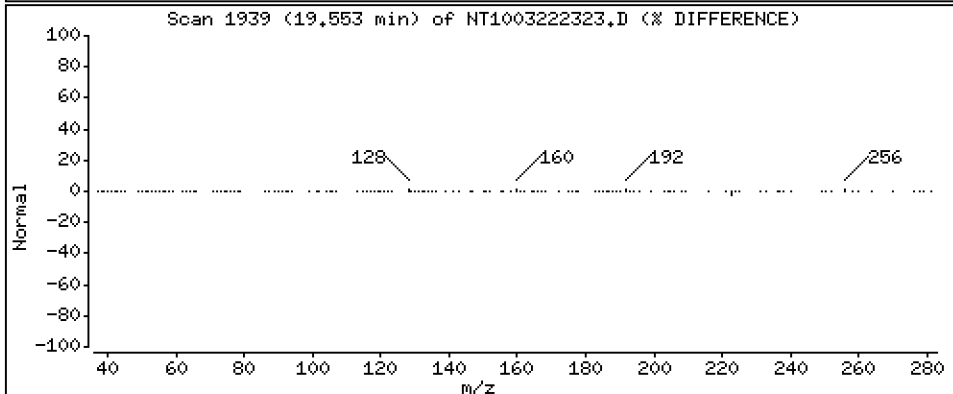
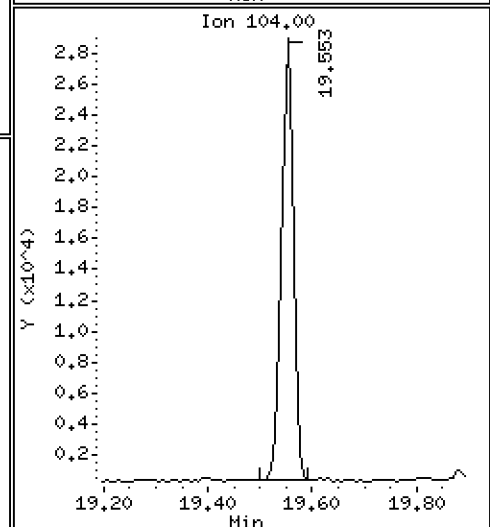
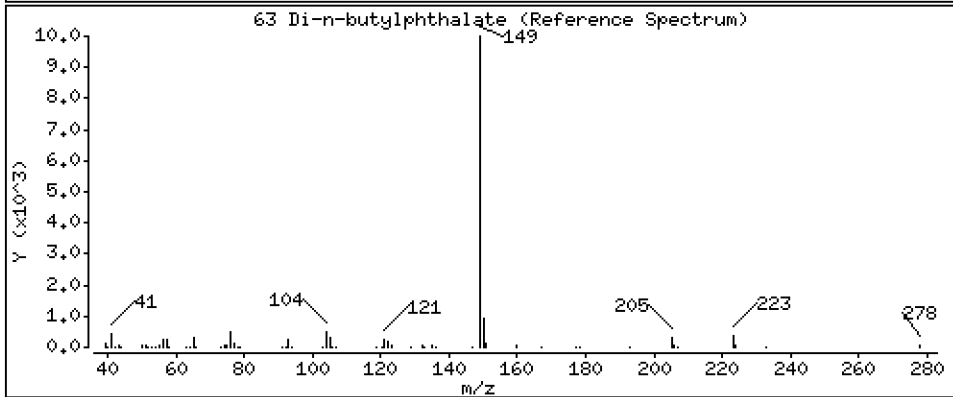
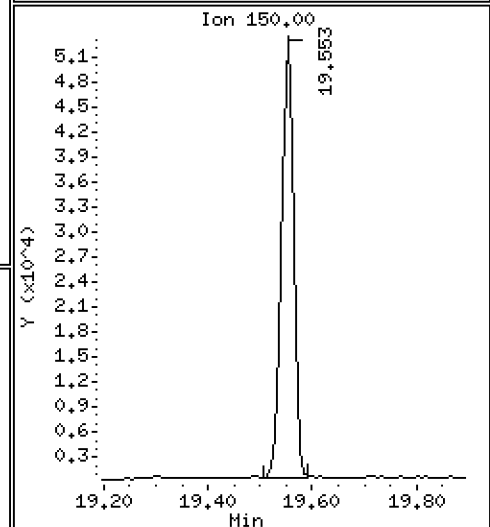
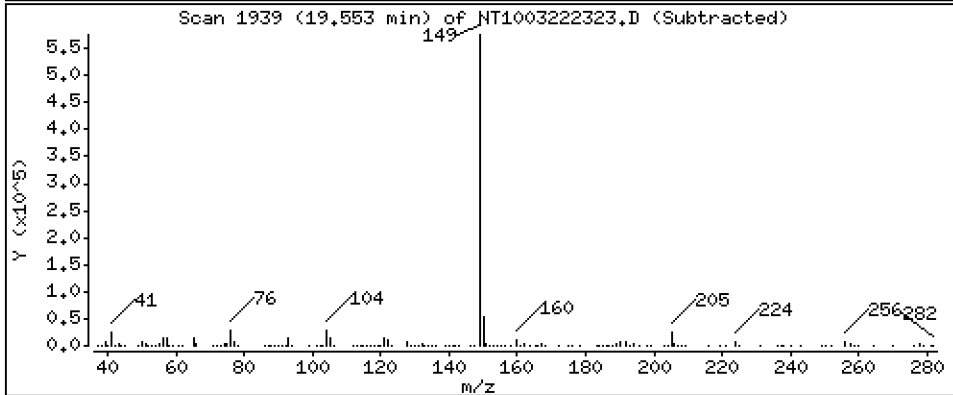
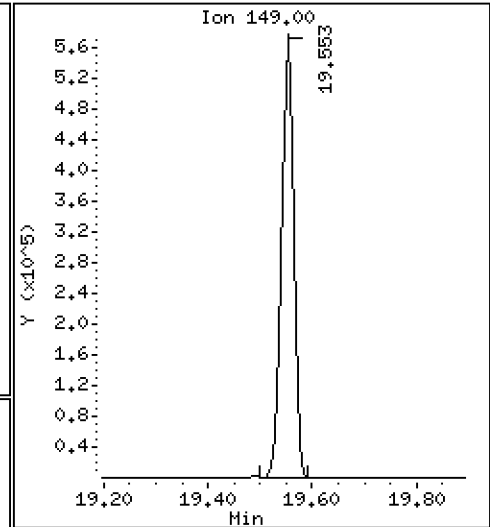
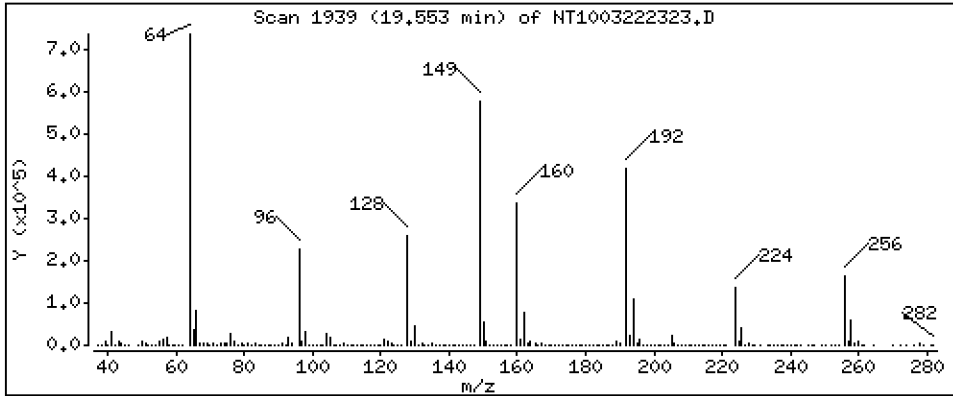
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,802 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

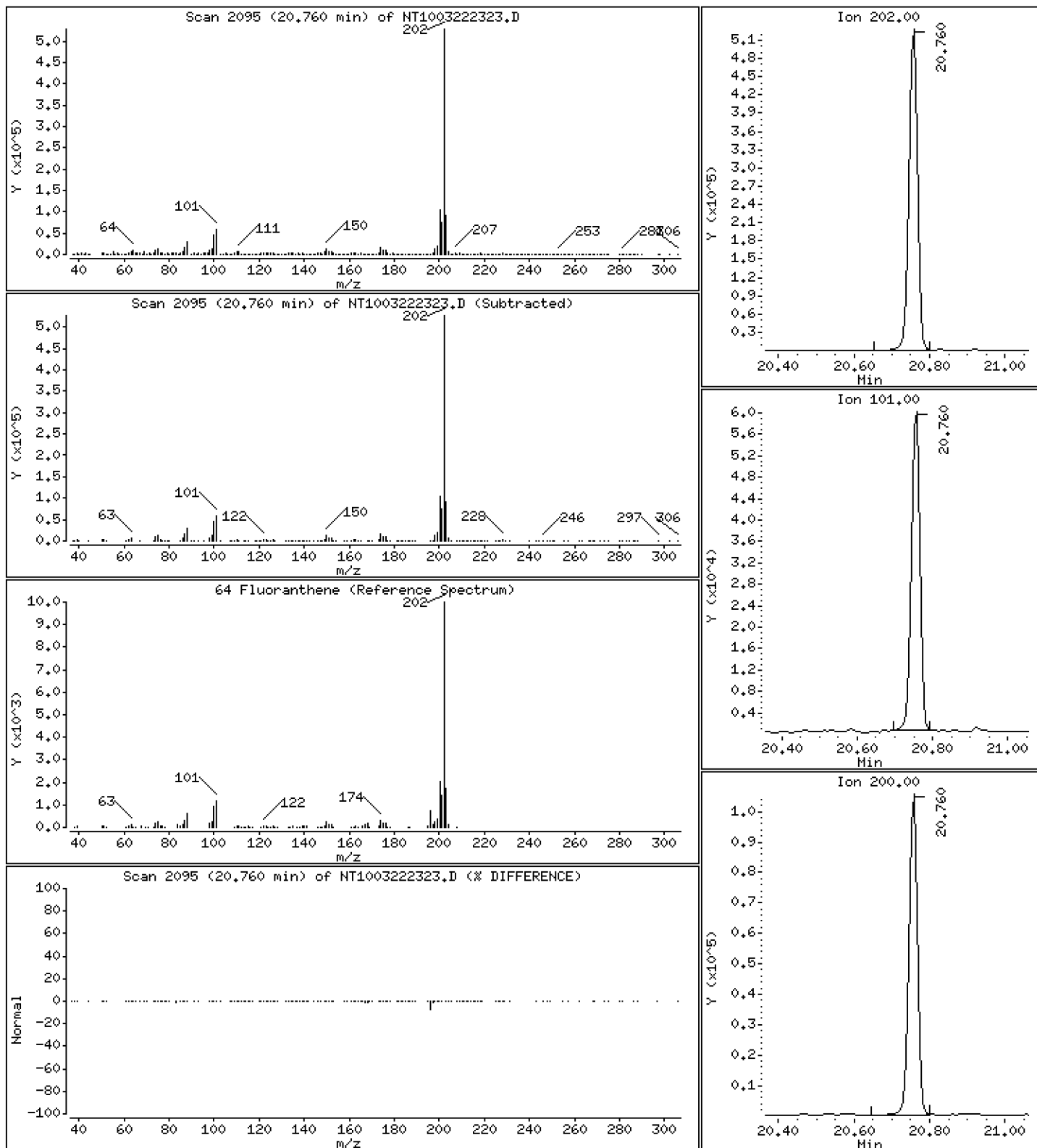
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,403 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

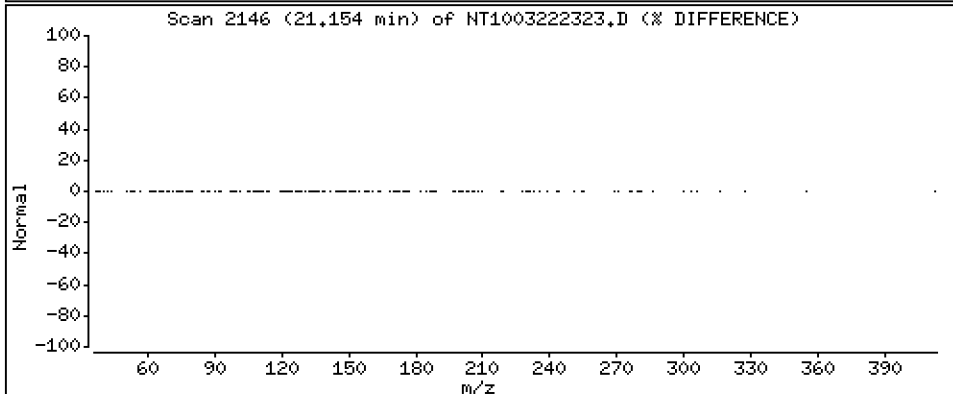
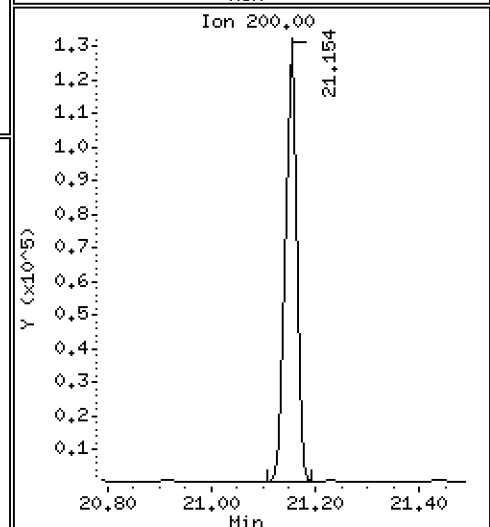
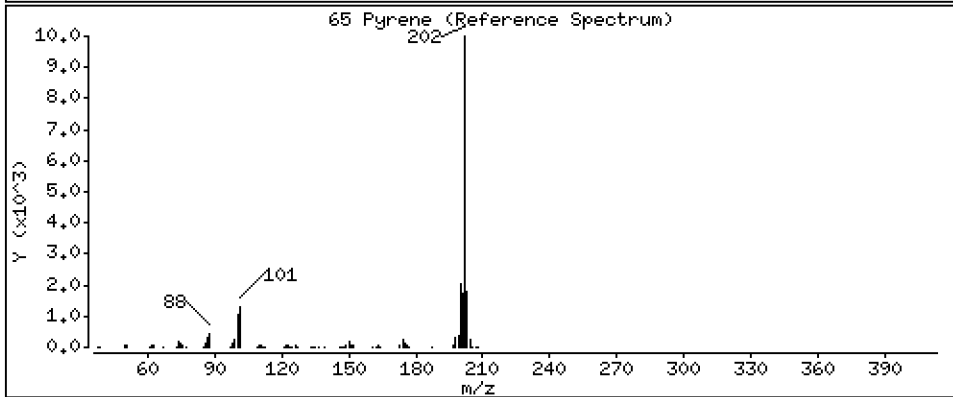
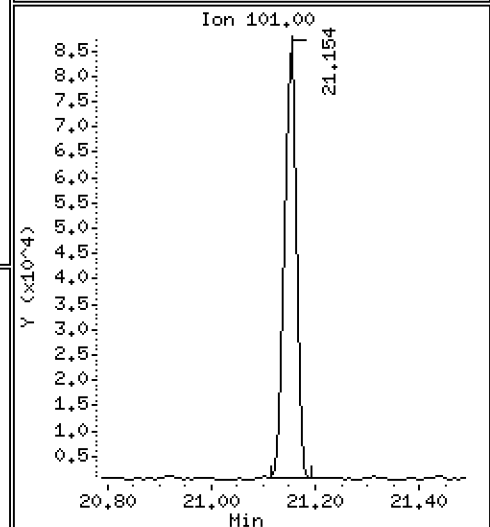
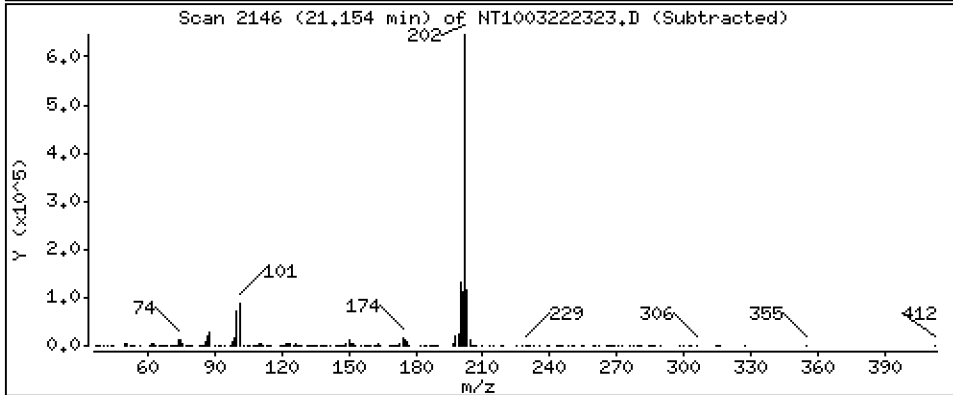
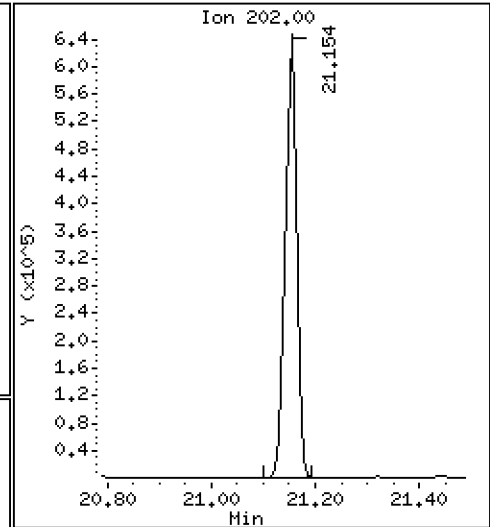
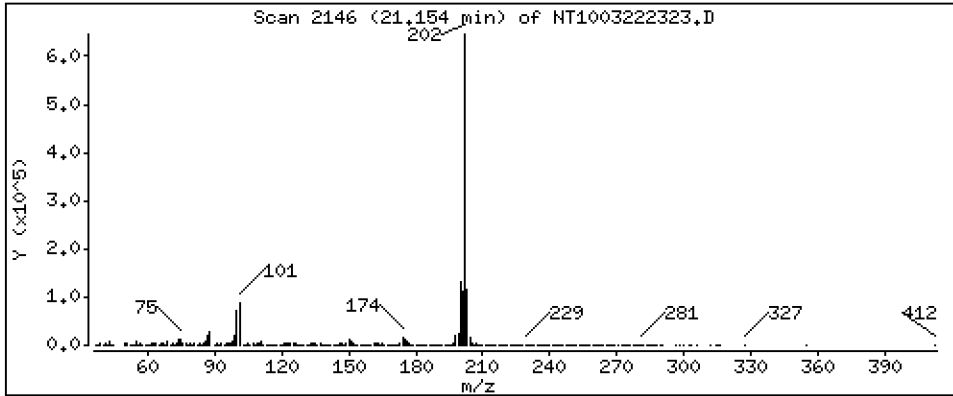
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,638 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

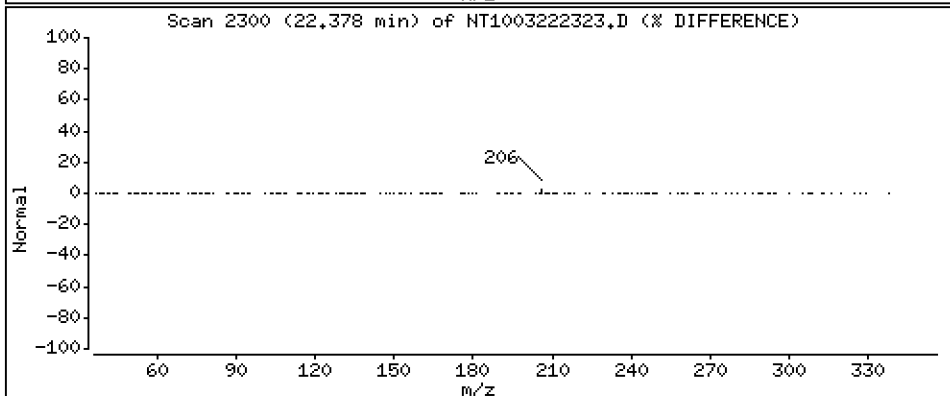
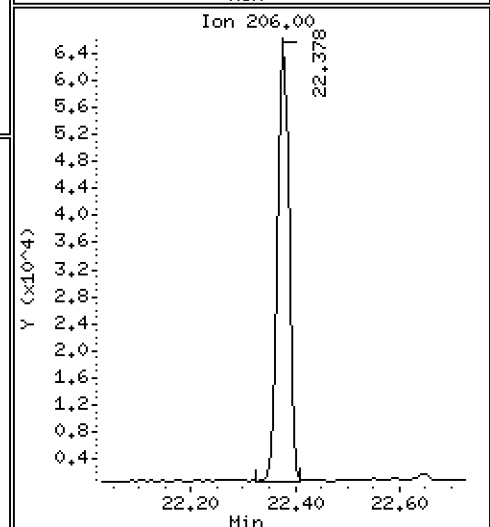
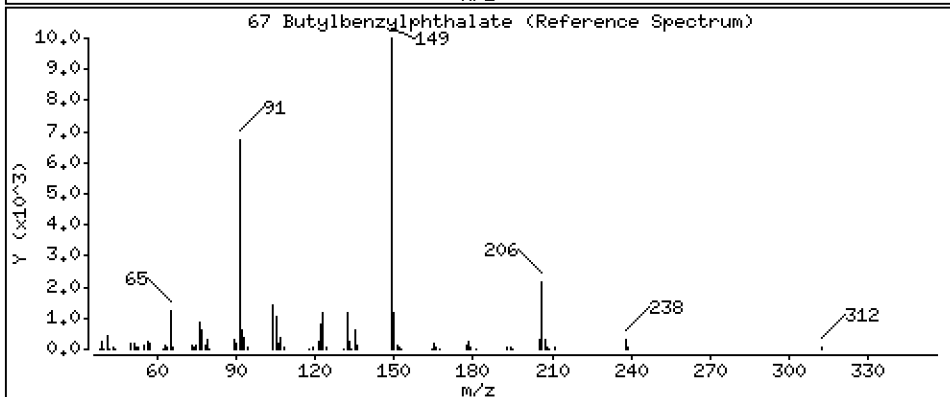
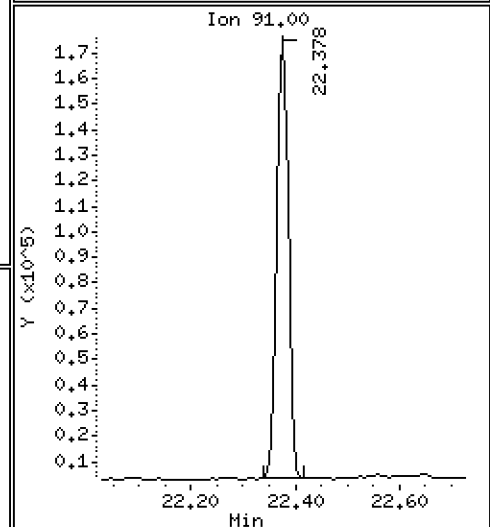
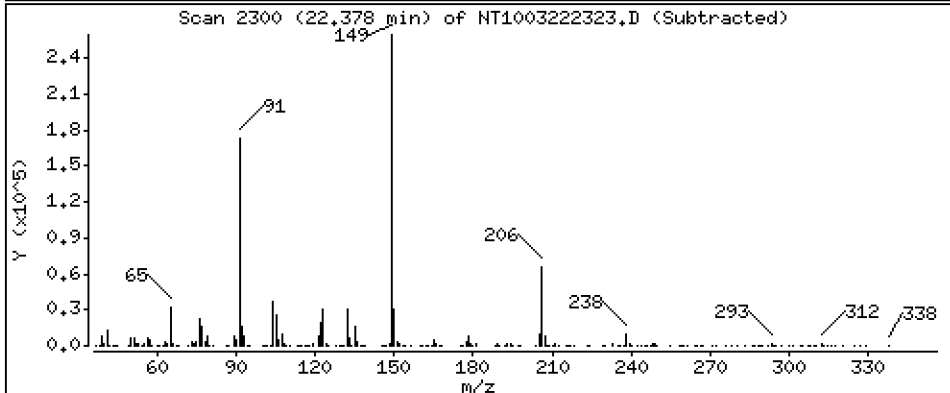
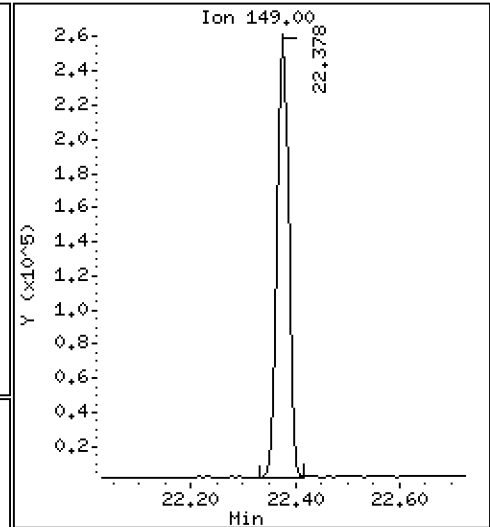
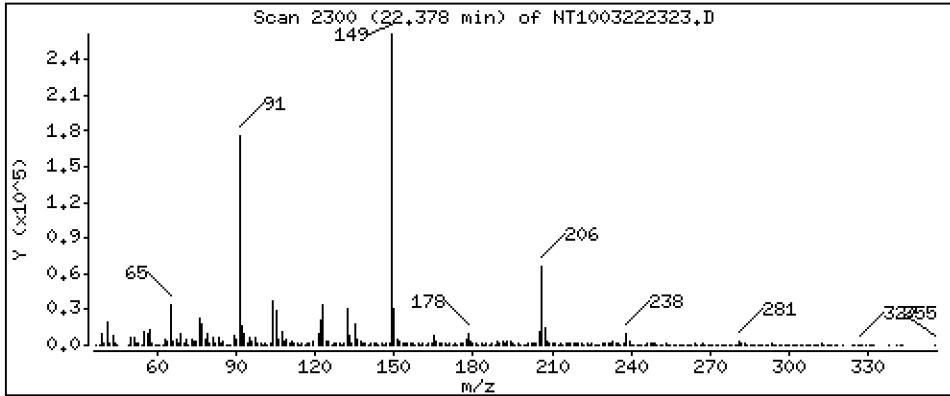
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,037 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

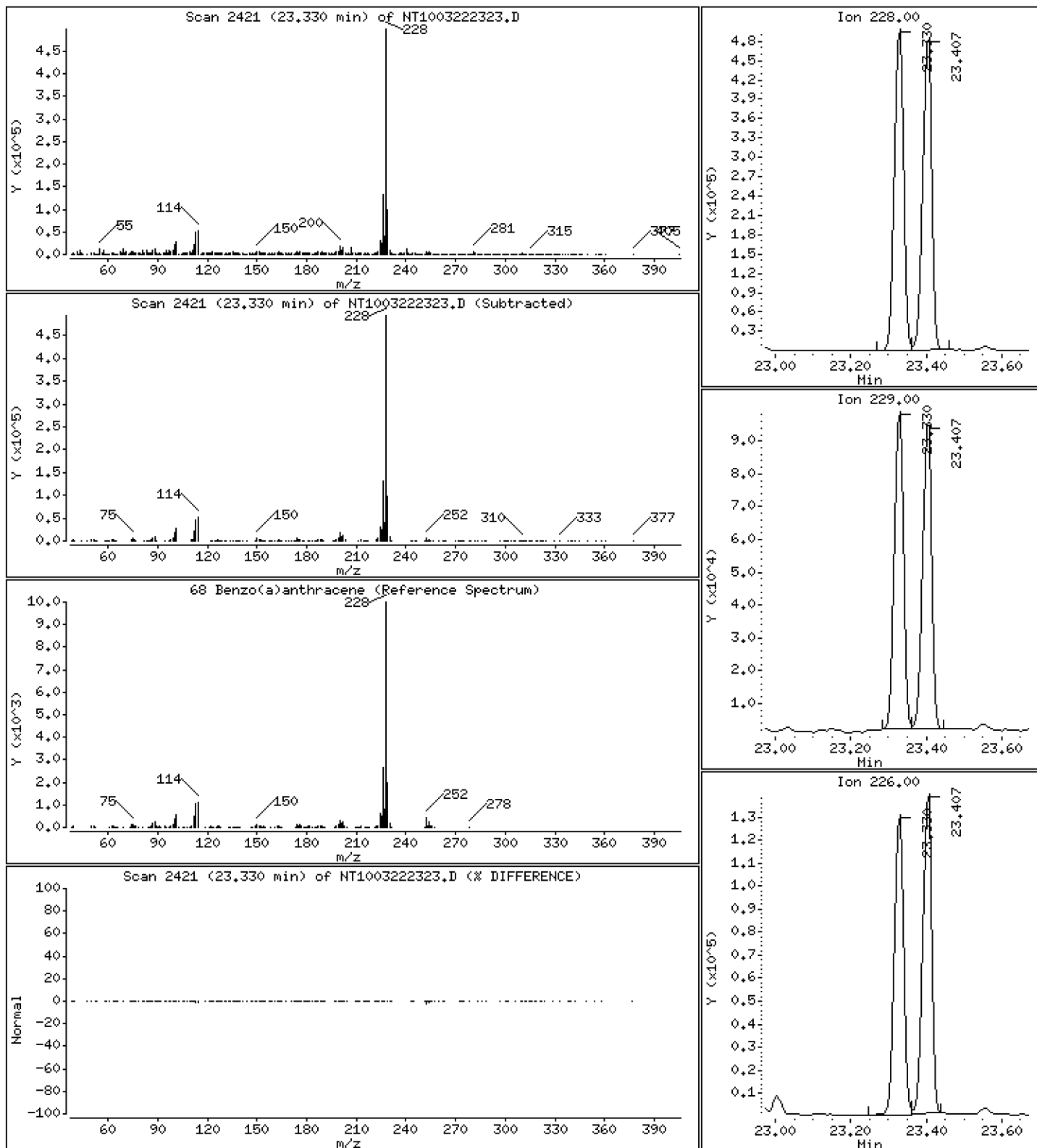
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,644 ug/mL





Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

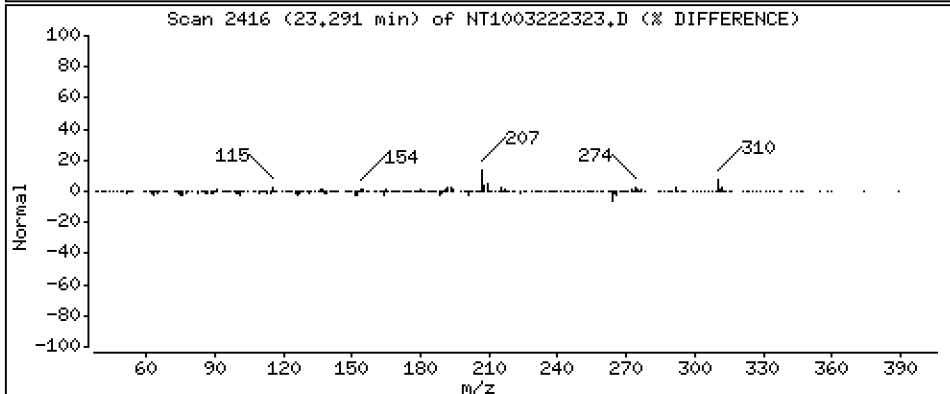
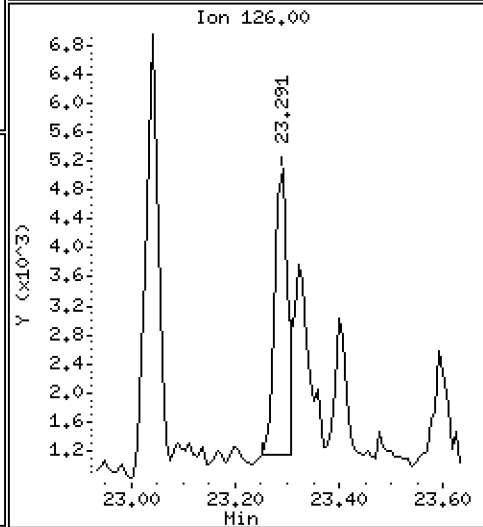
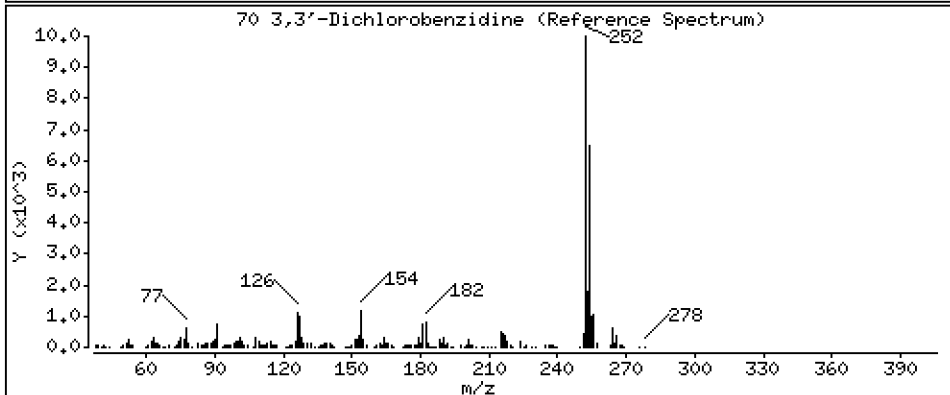
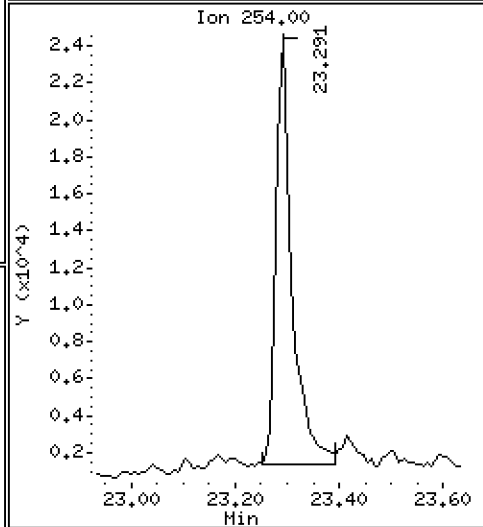
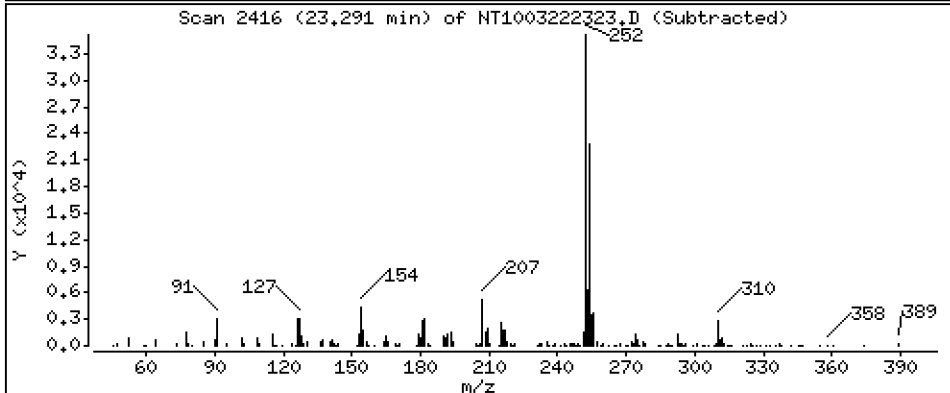
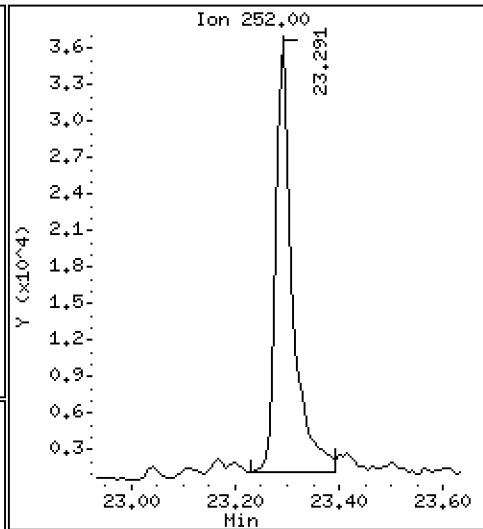
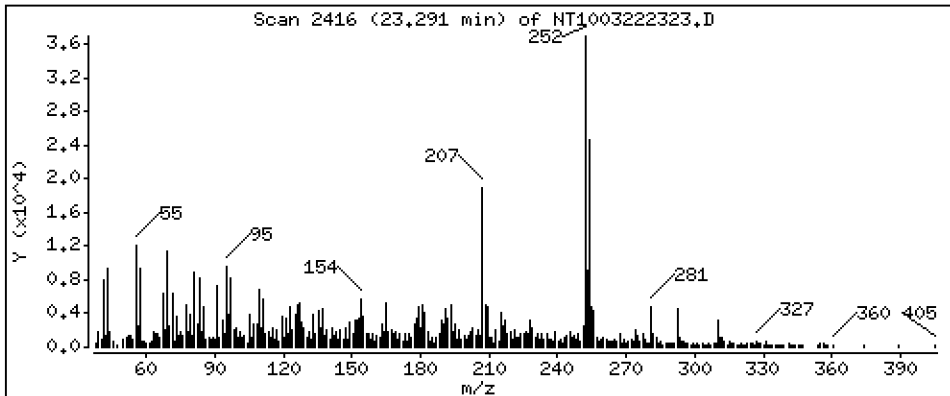
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 1,346 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

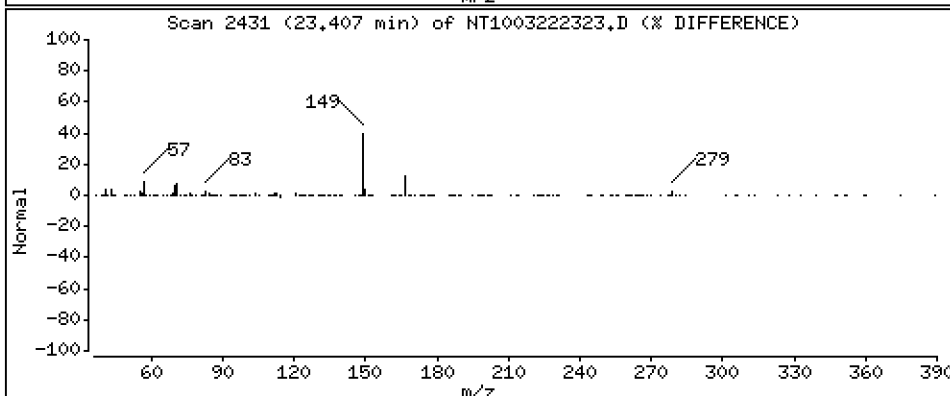
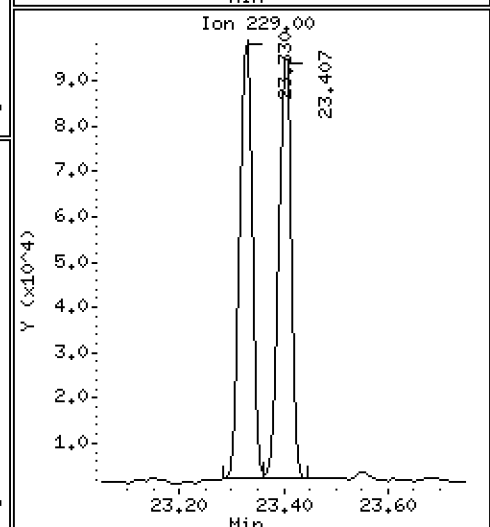
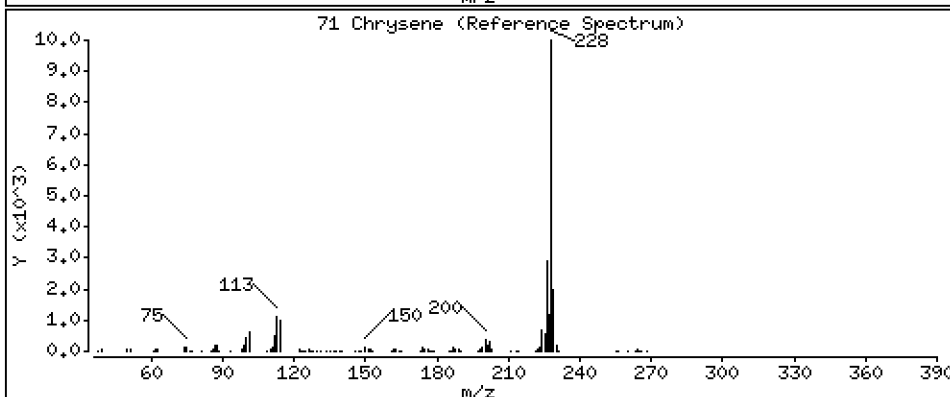
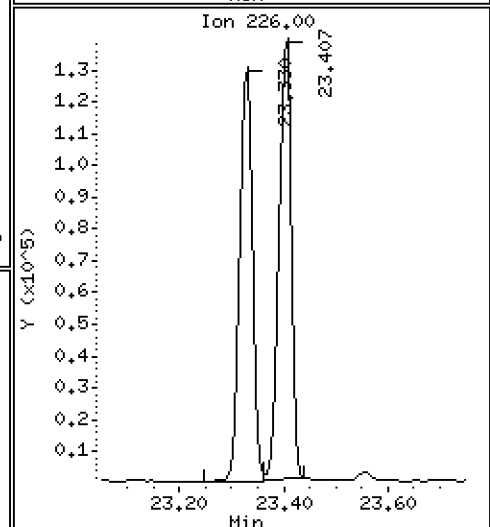
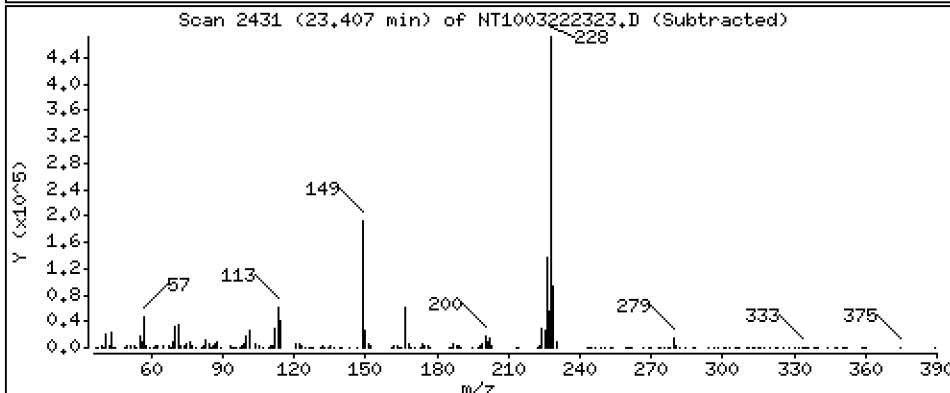
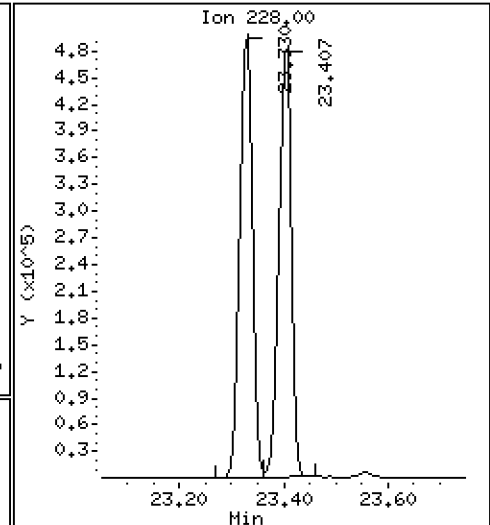
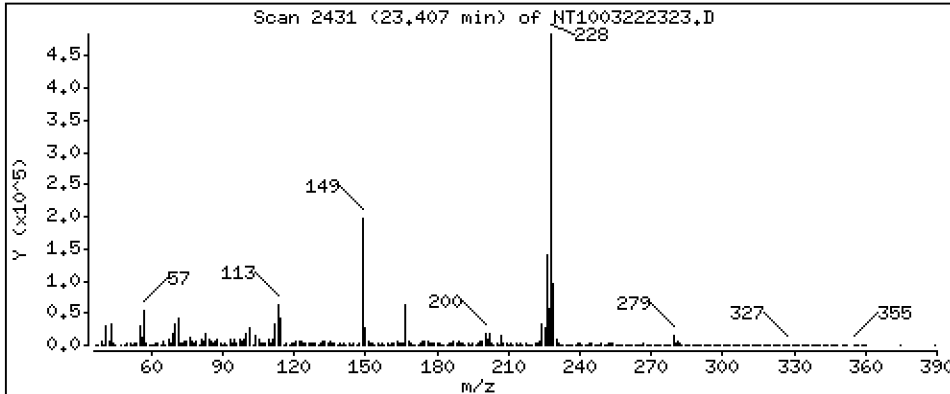
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,464 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

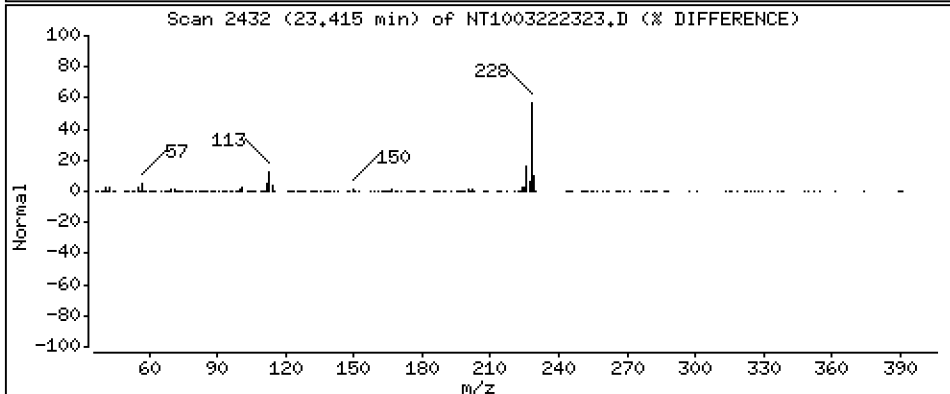
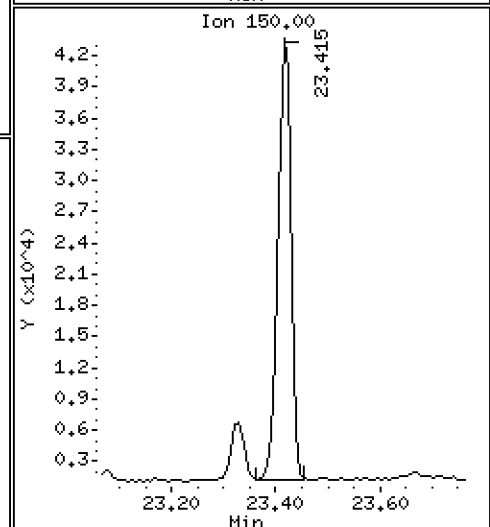
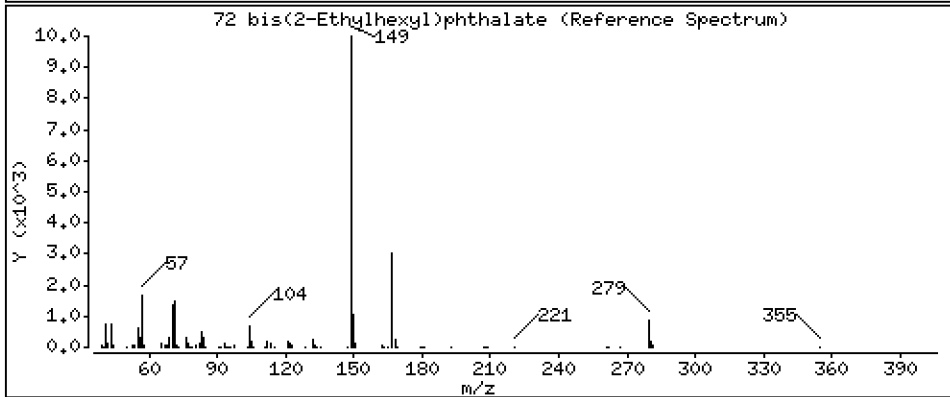
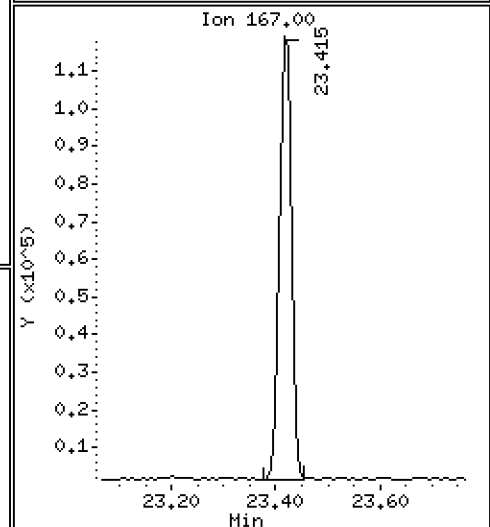
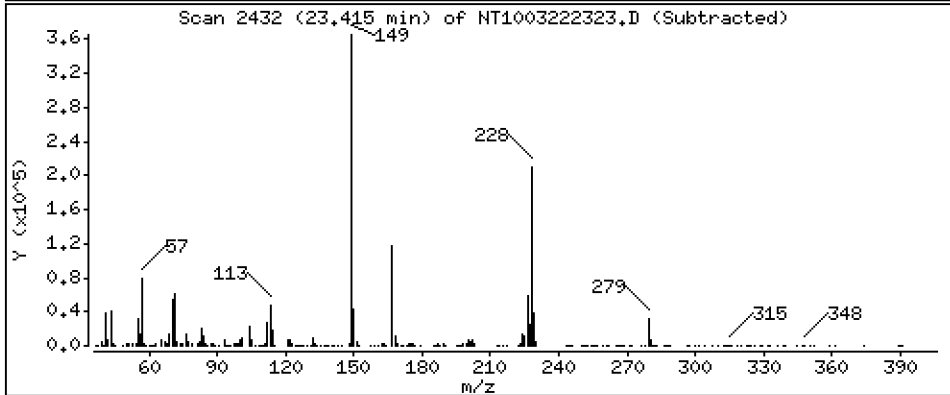
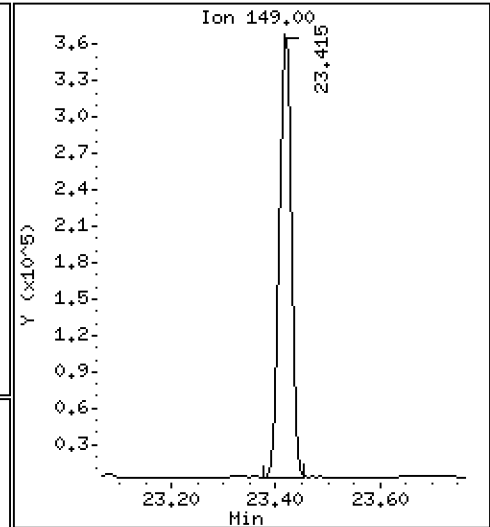
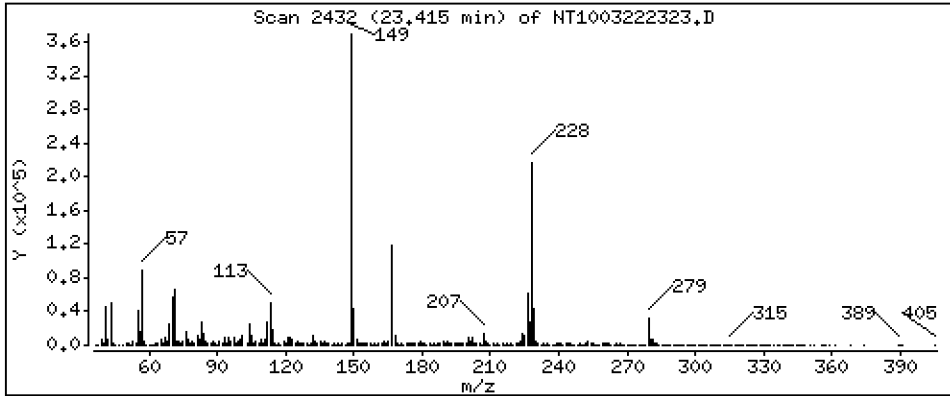
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,389 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

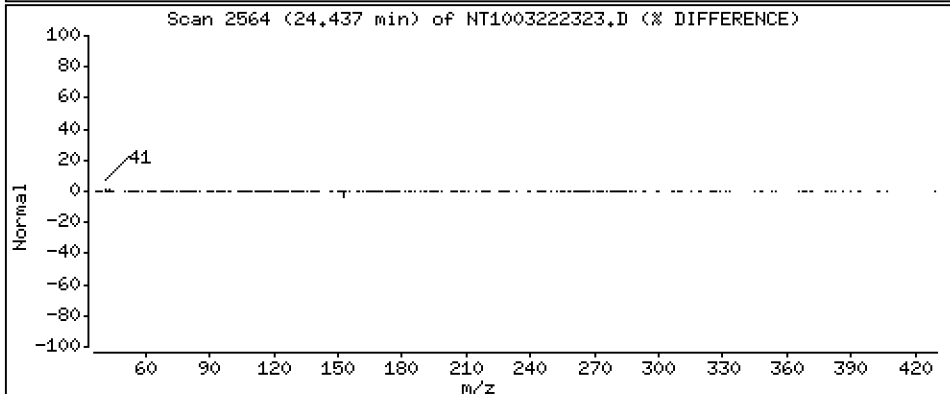
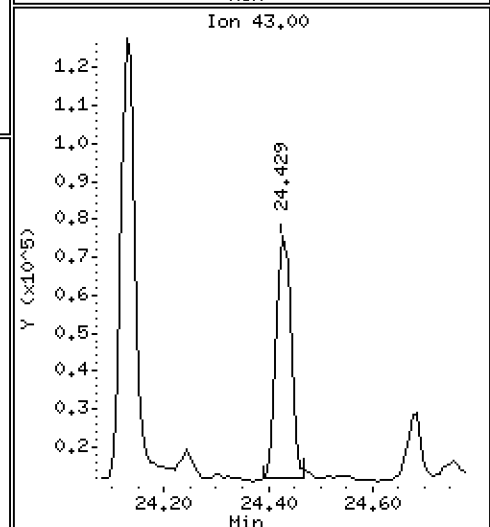
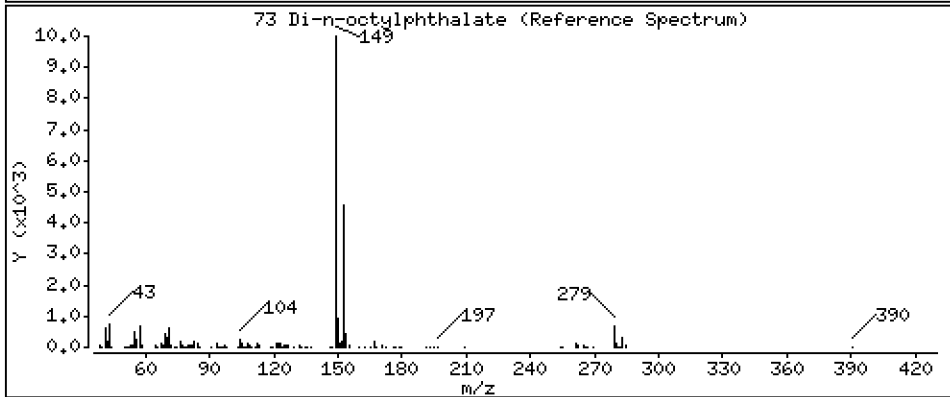
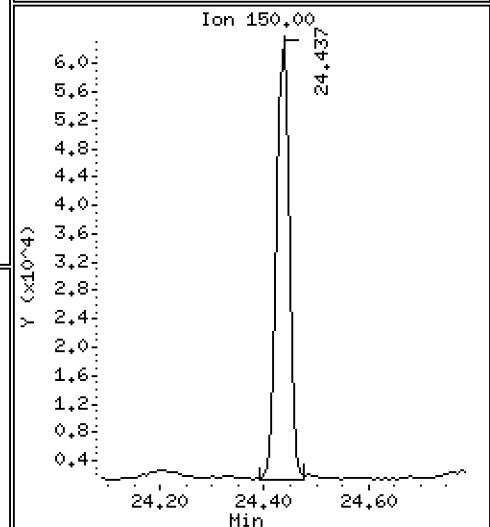
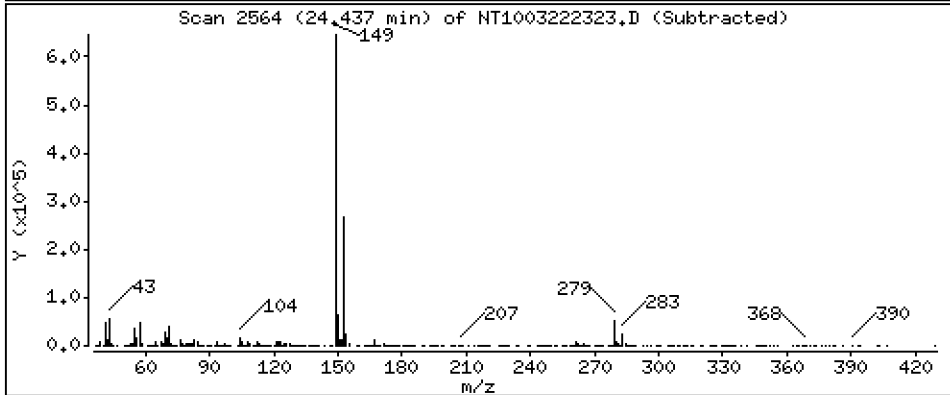
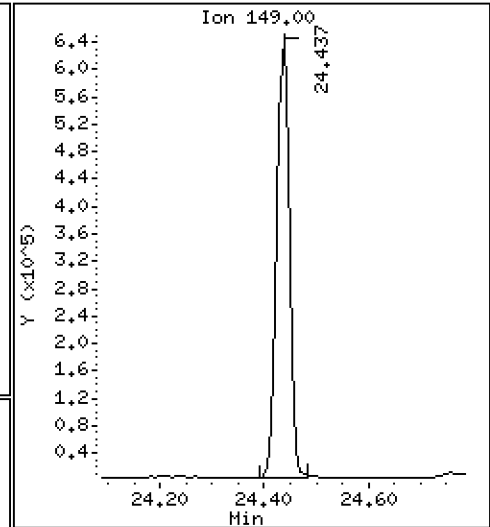
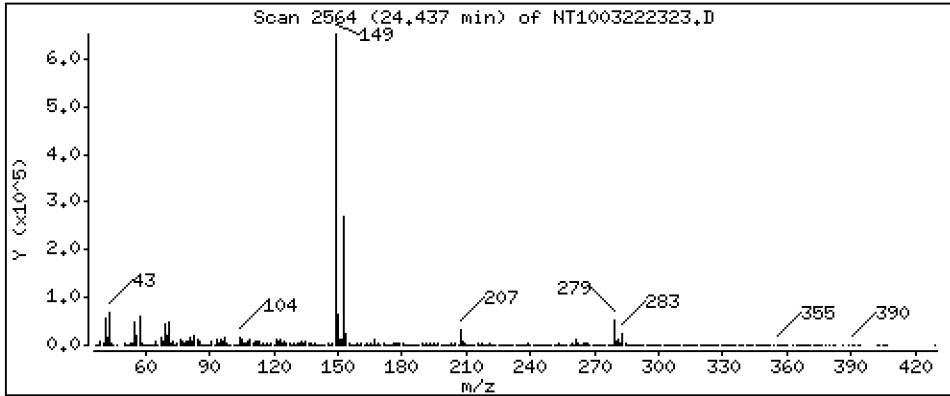
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,521 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

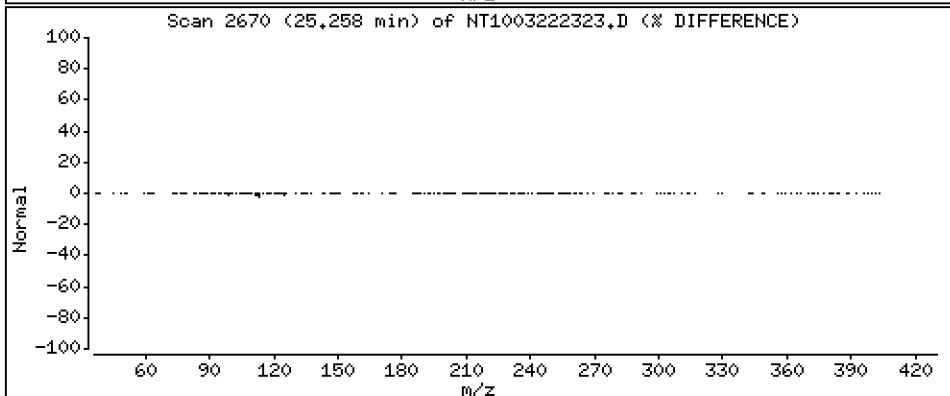
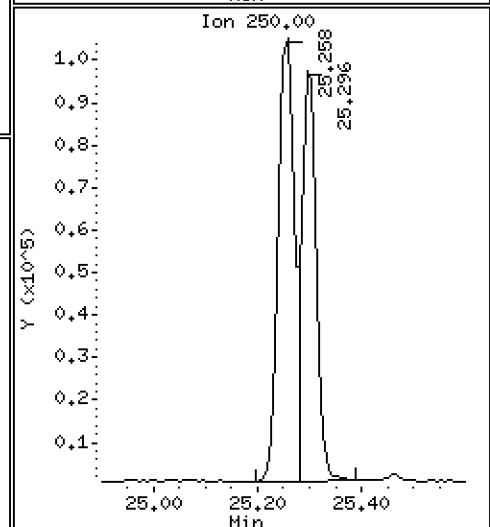
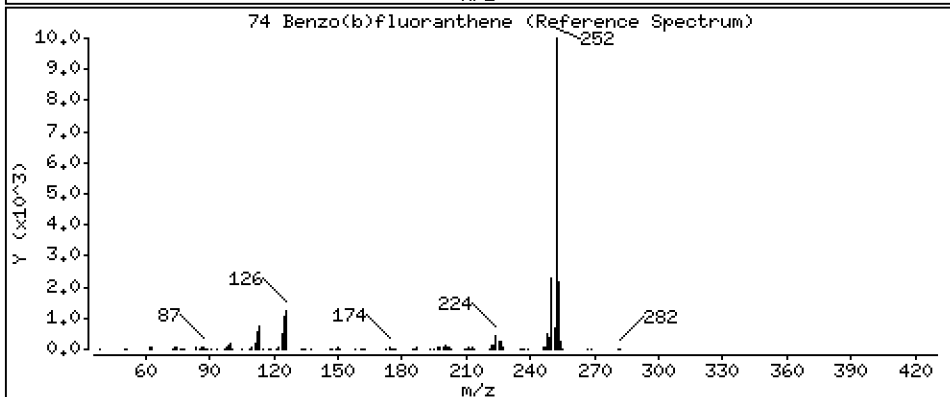
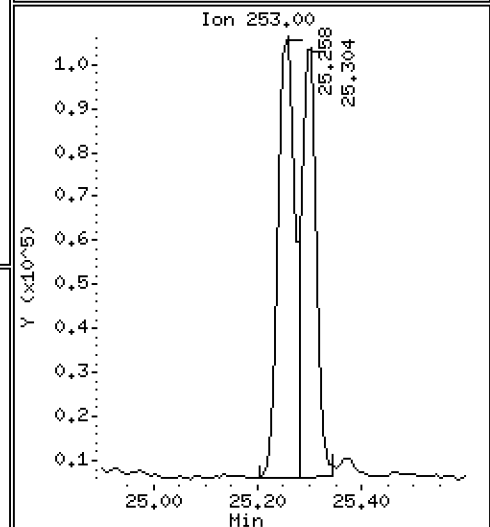
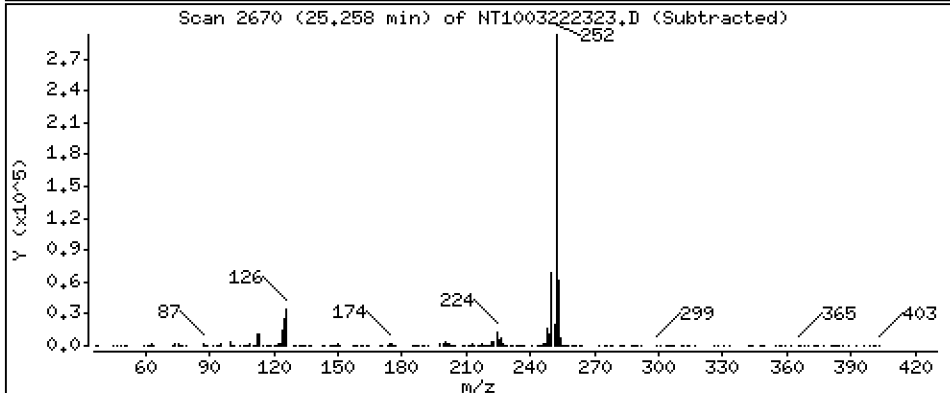
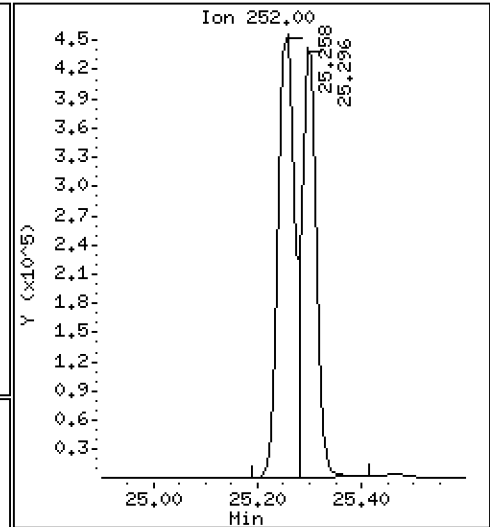
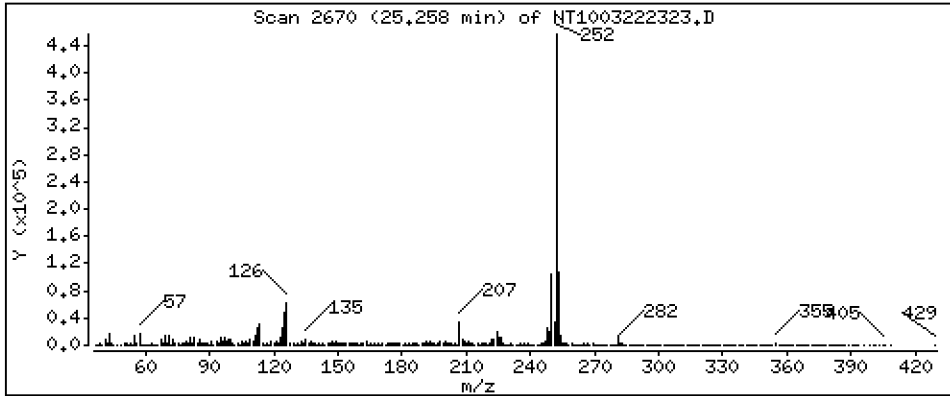
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 5,388 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

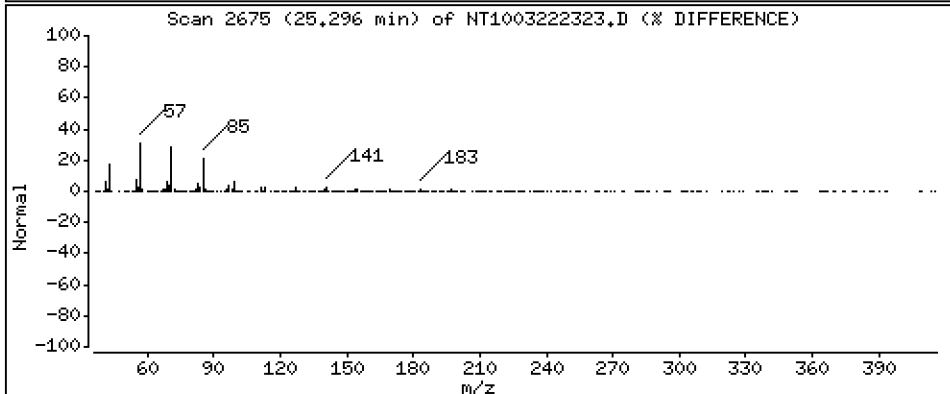
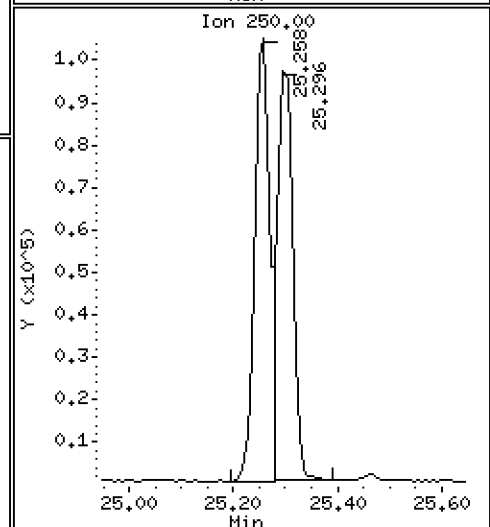
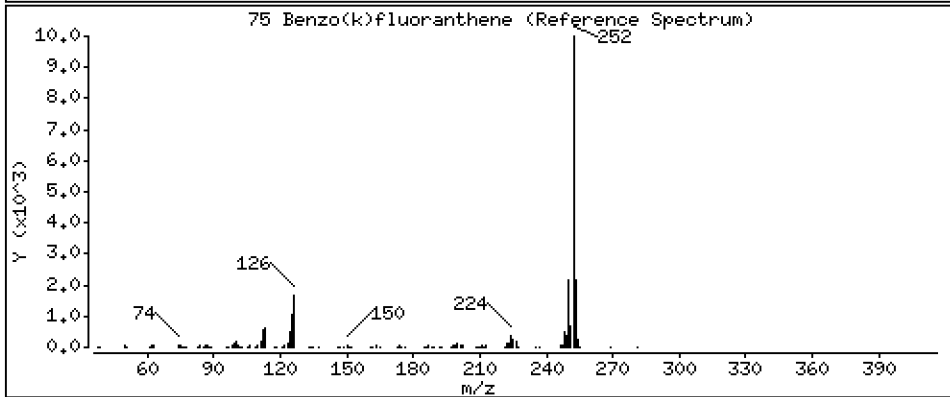
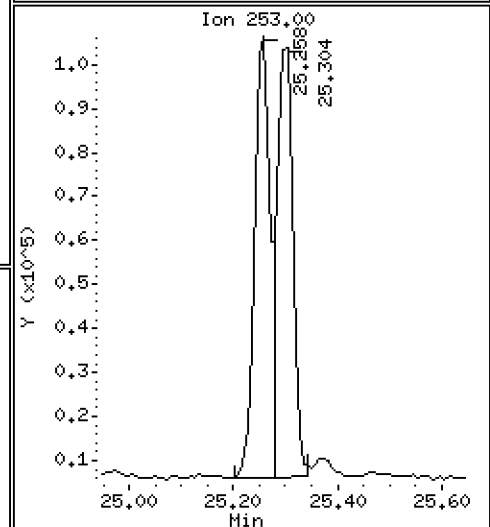
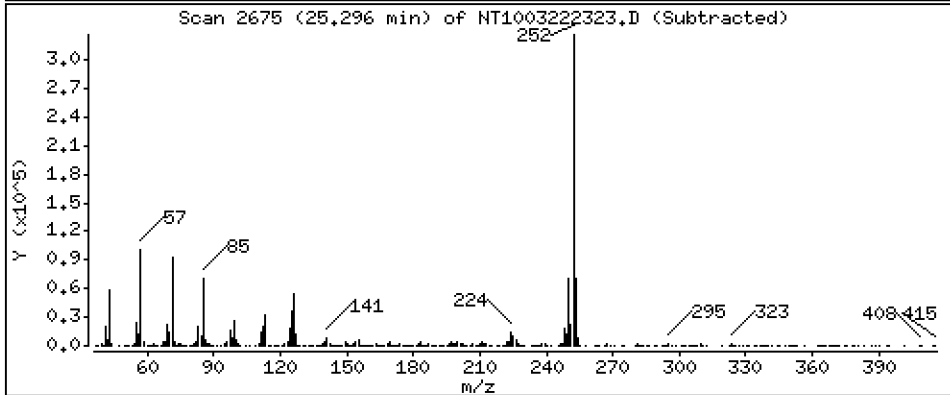
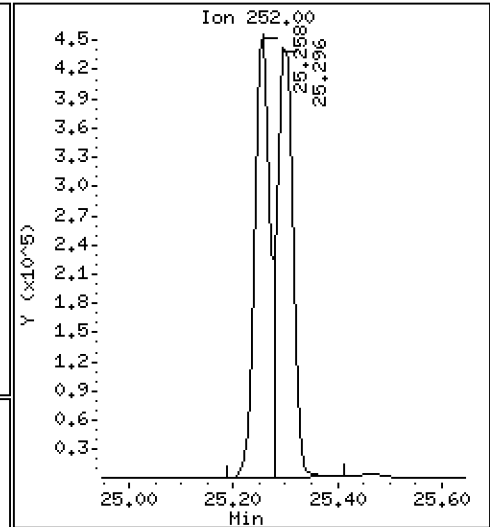
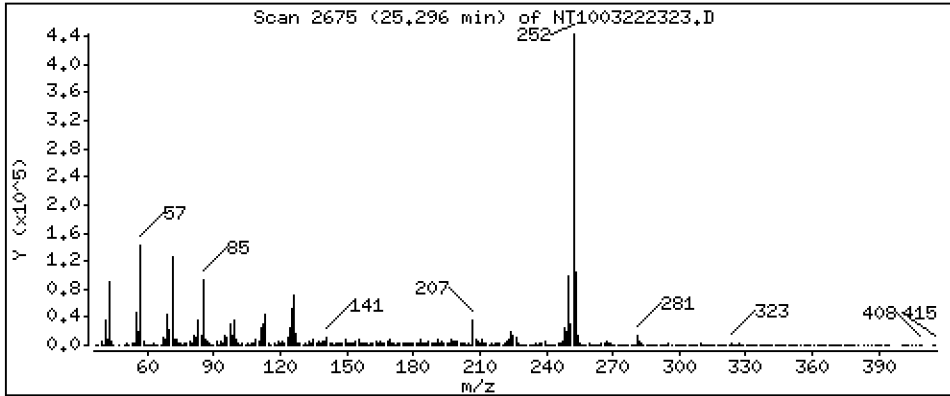
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,676 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

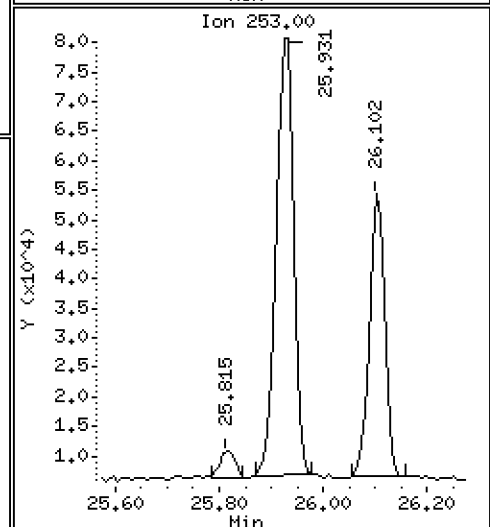
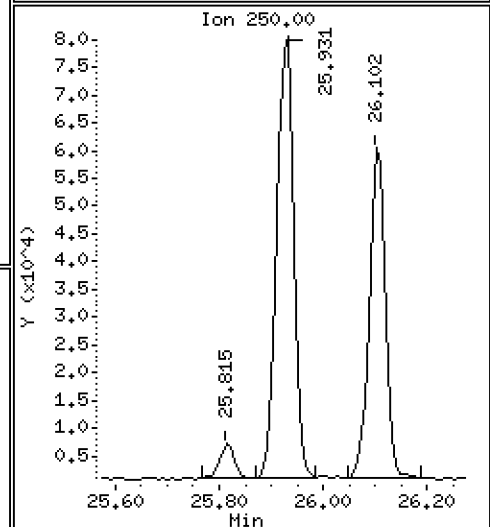
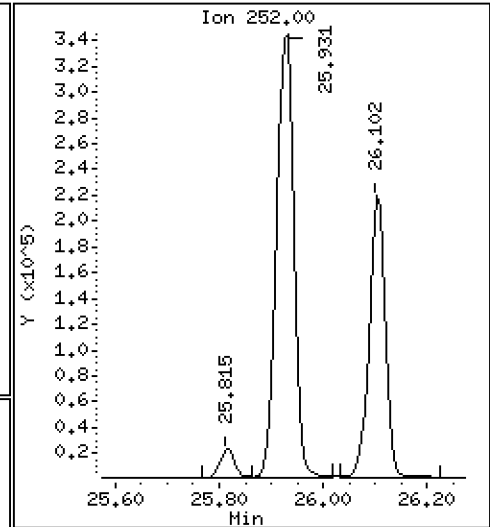
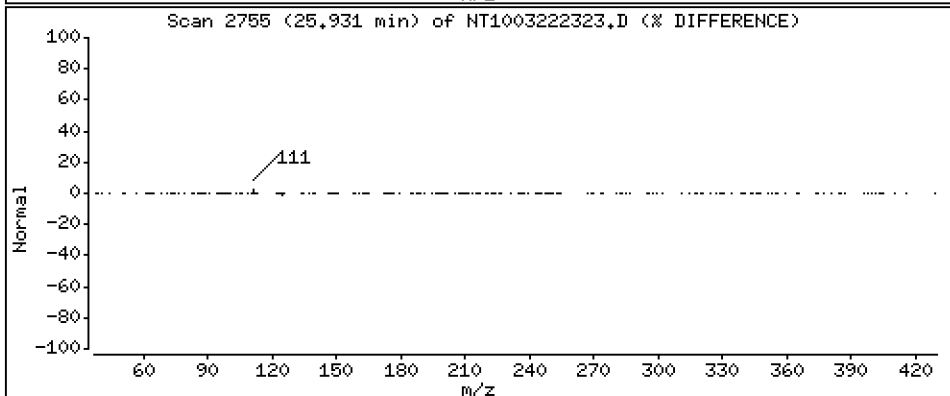
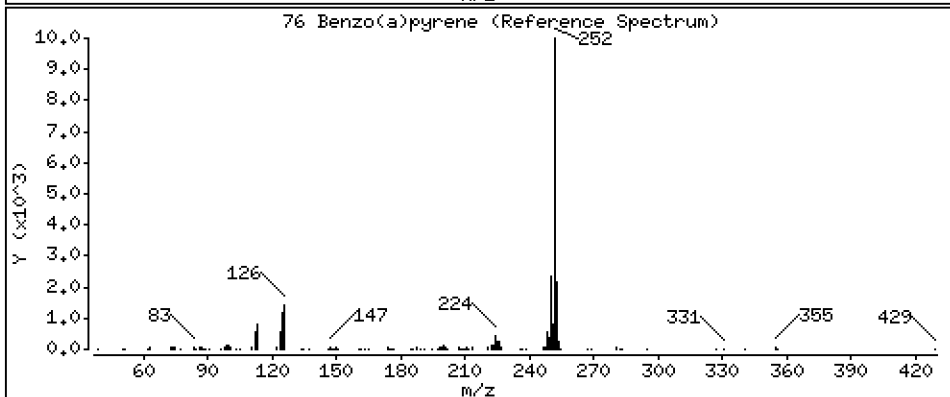
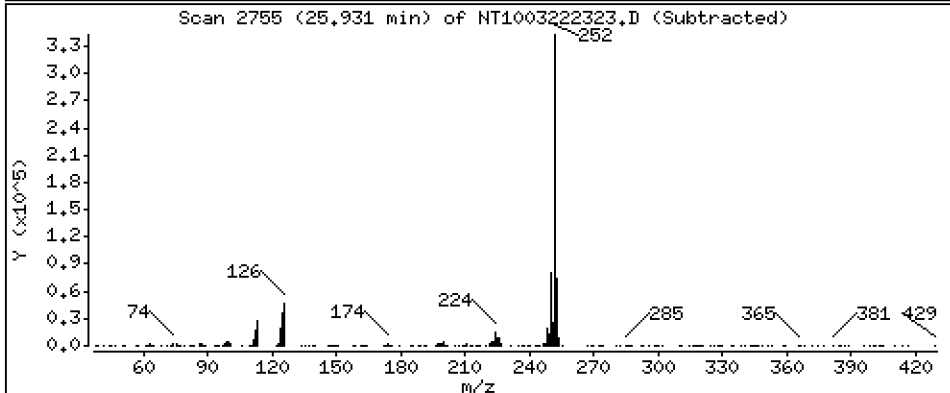
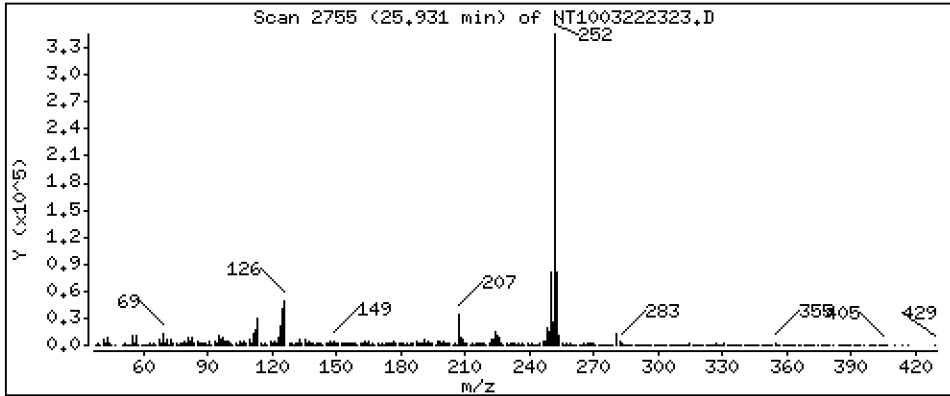
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,596 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

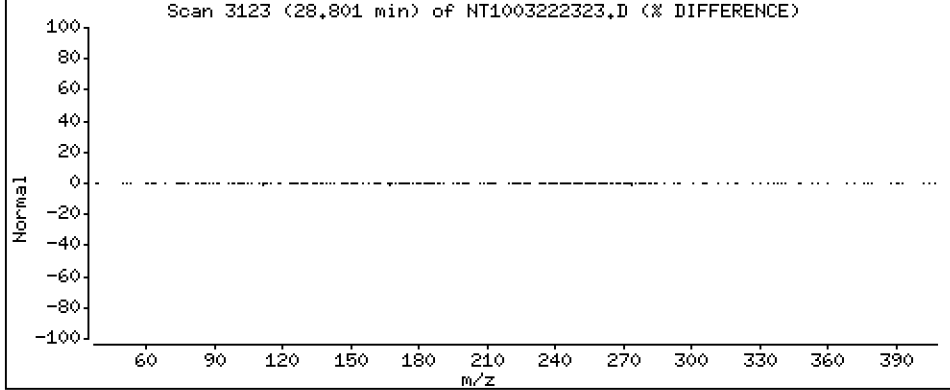
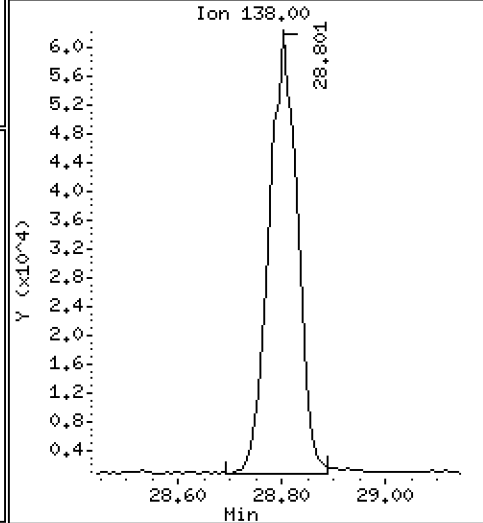
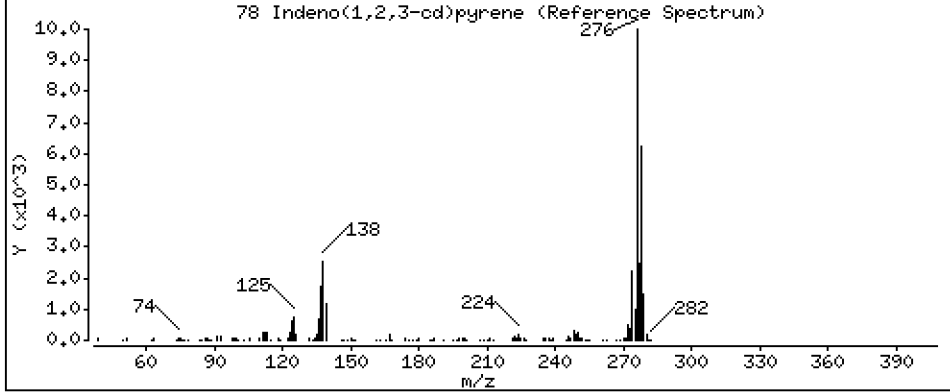
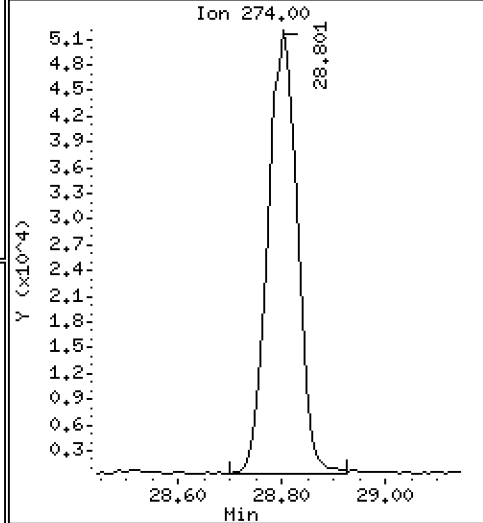
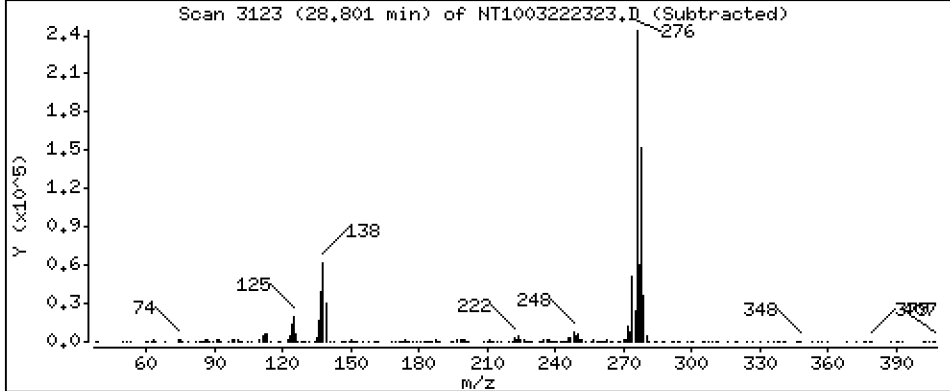
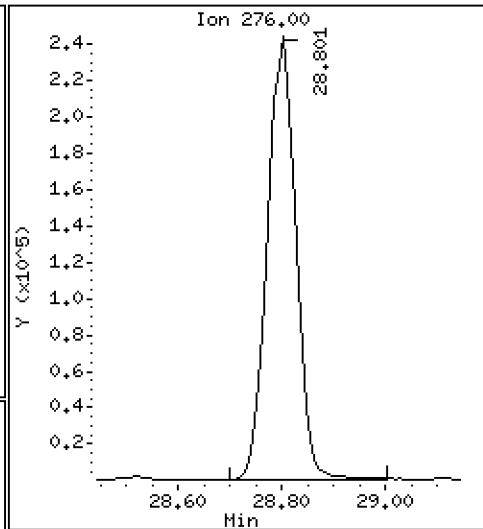
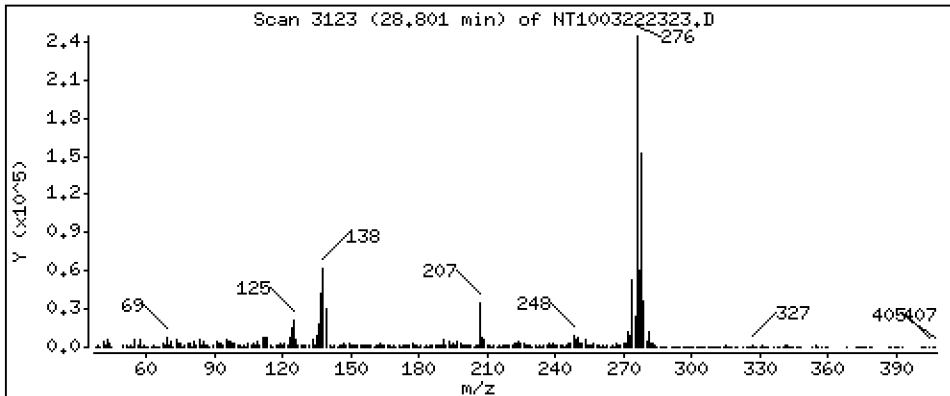
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 4,323 ug/mL





Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

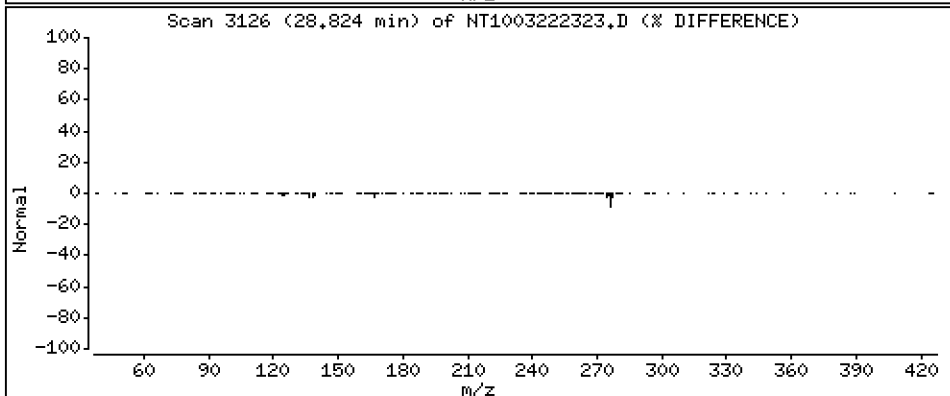
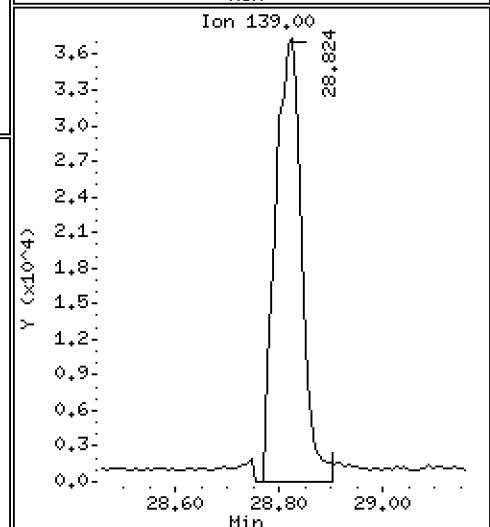
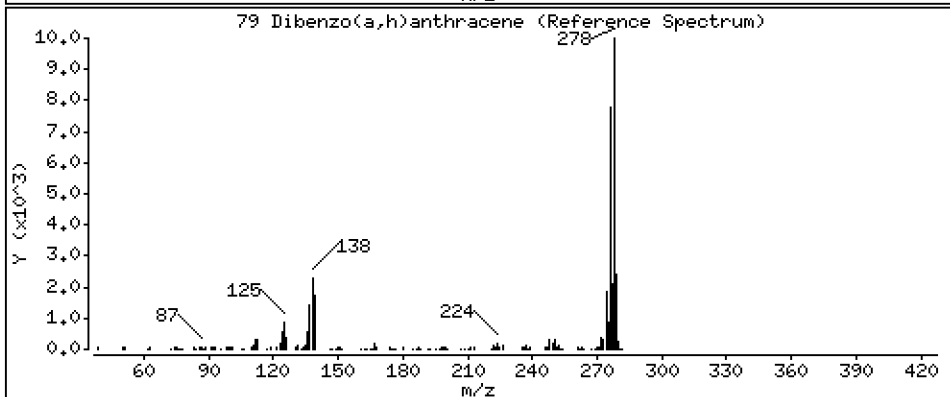
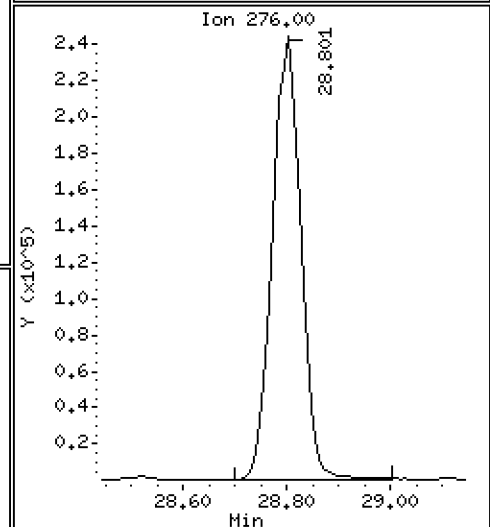
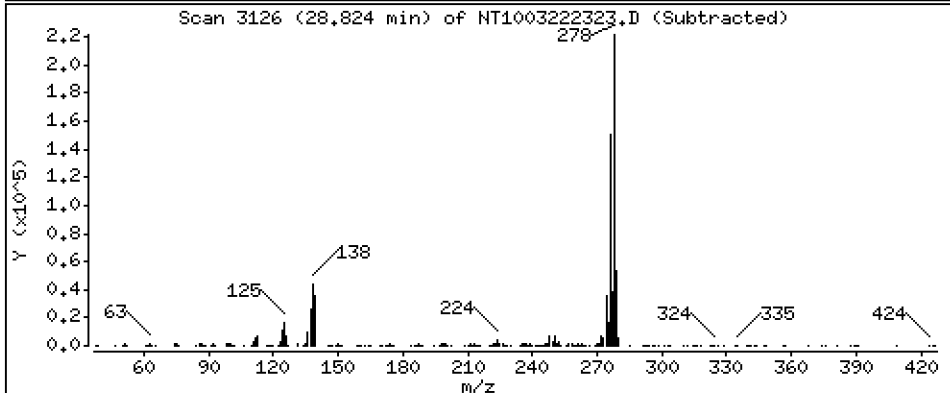
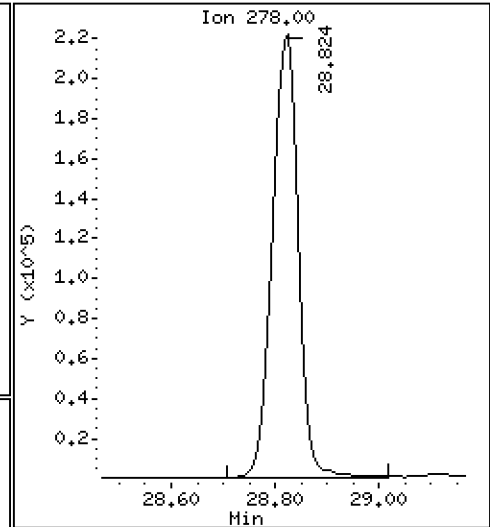
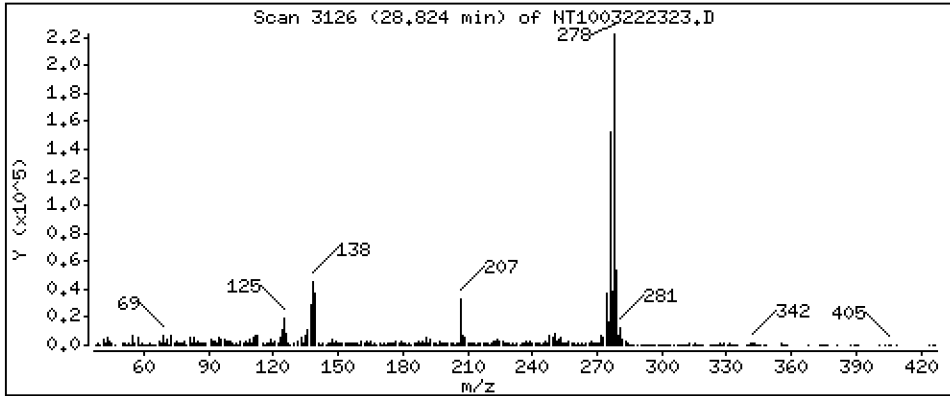
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,274 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

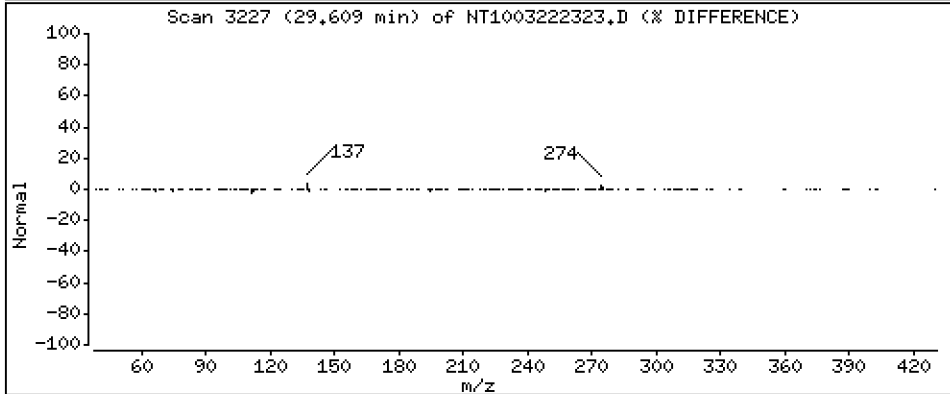
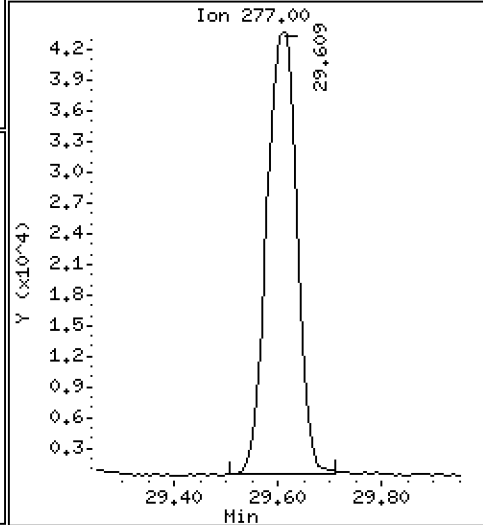
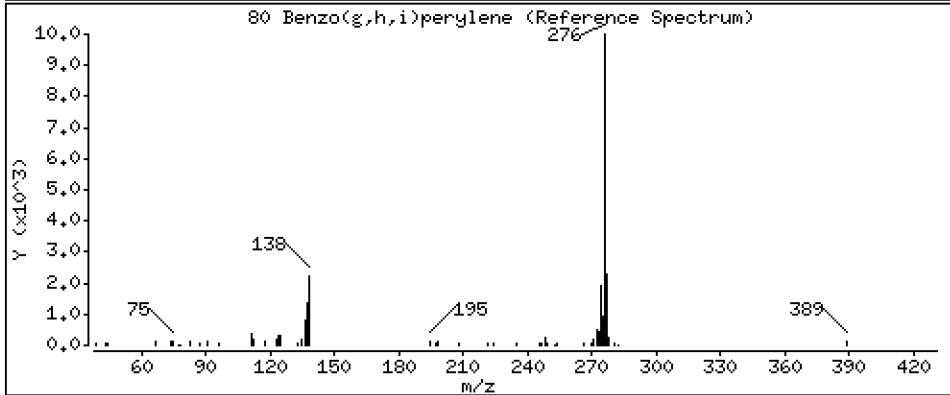
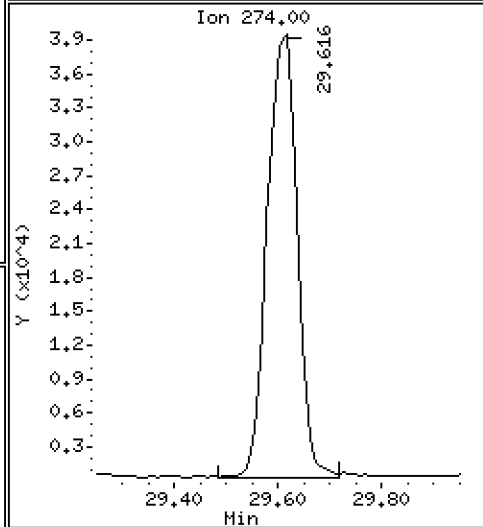
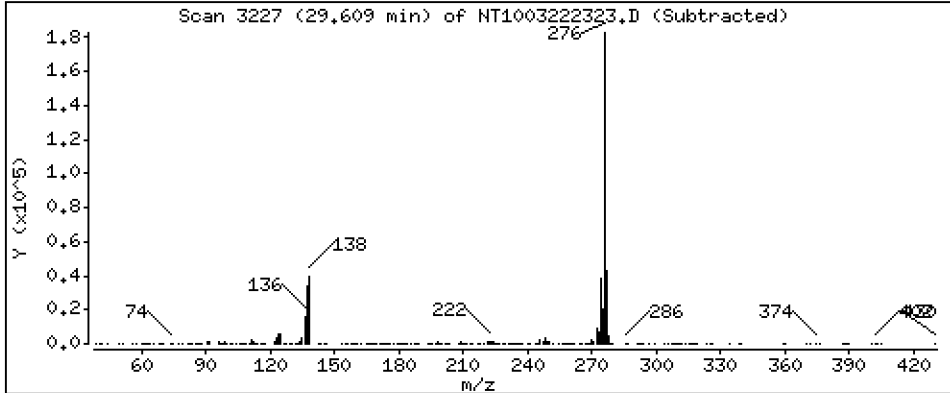
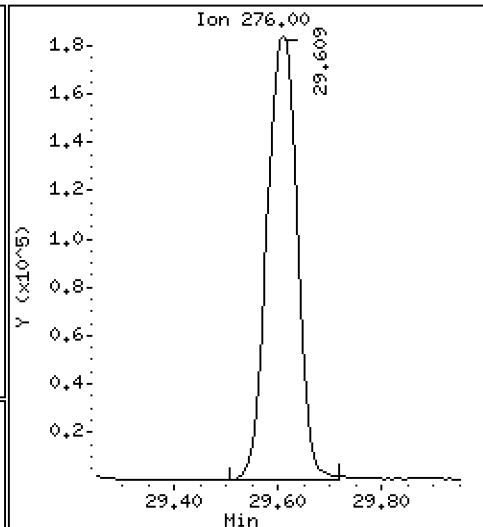
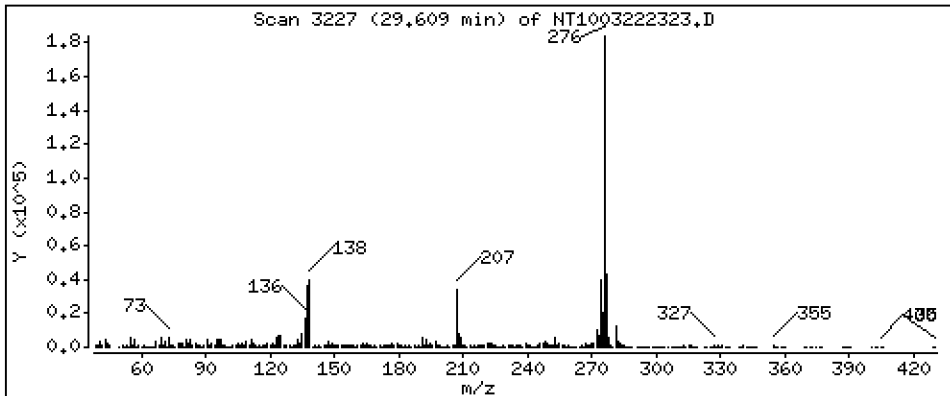
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 3,979 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

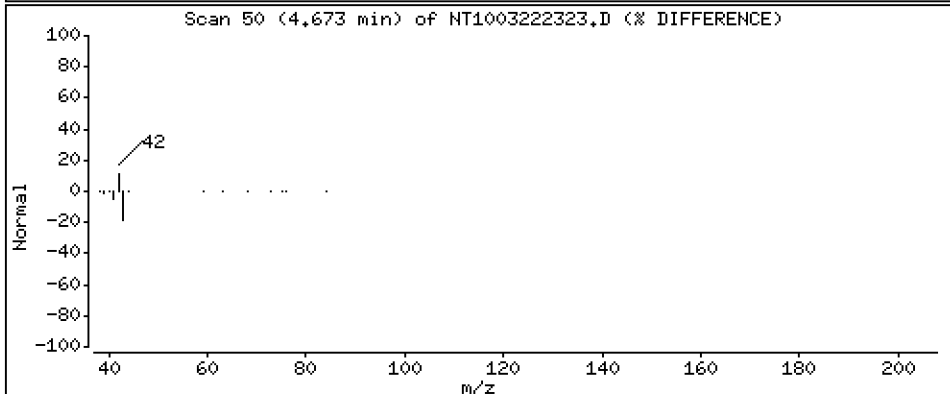
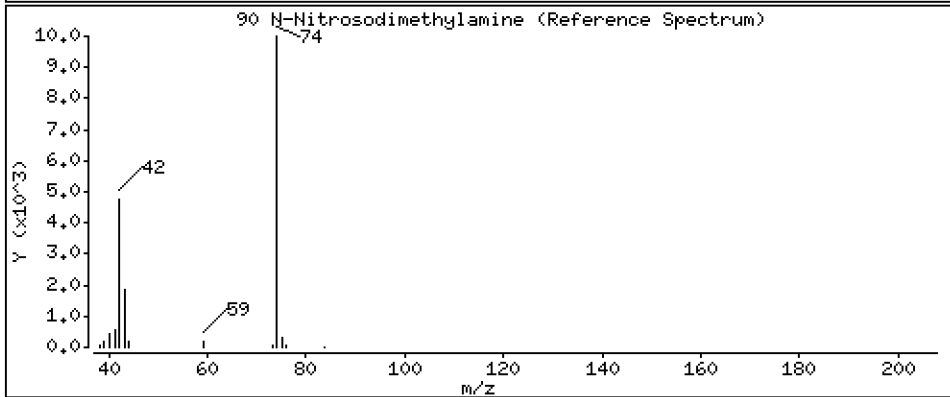
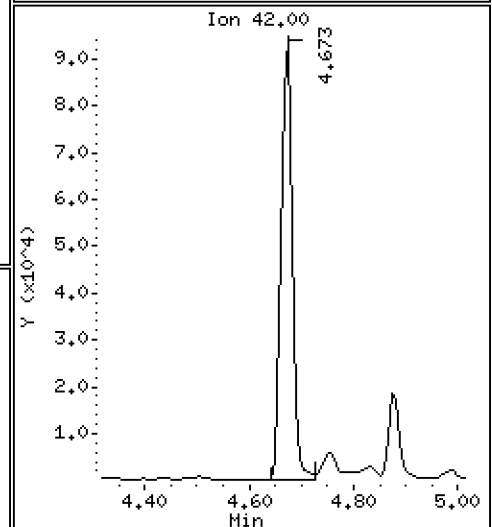
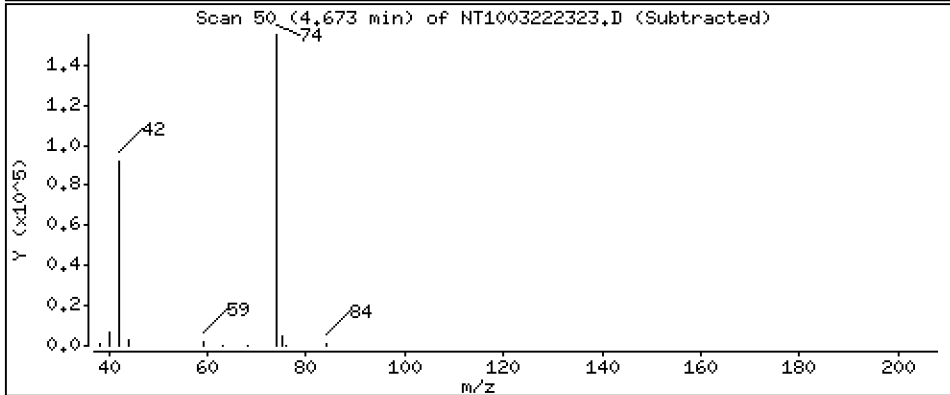
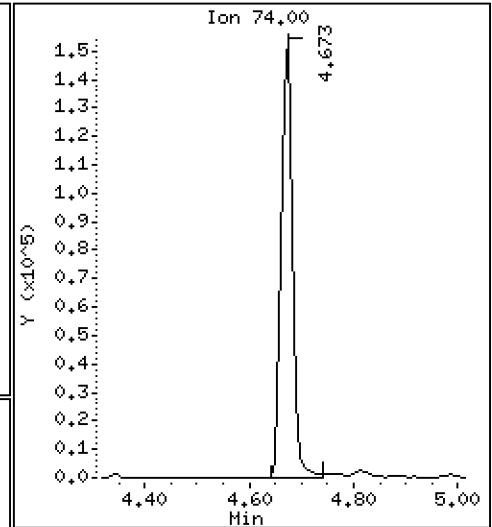
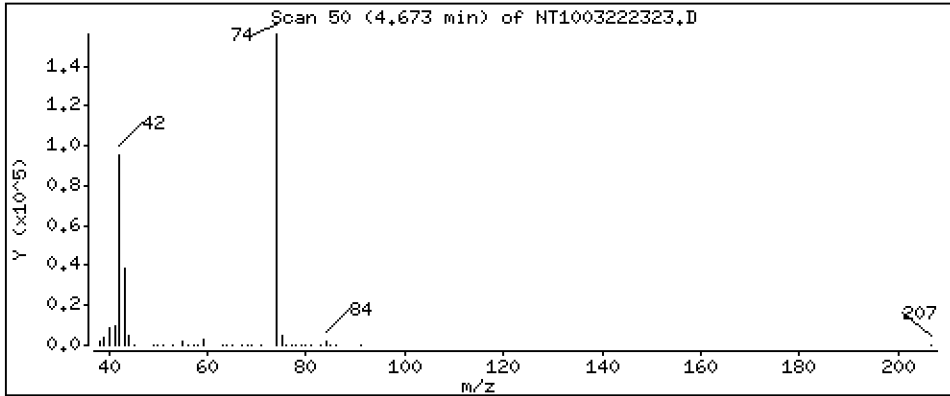
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 8,101 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

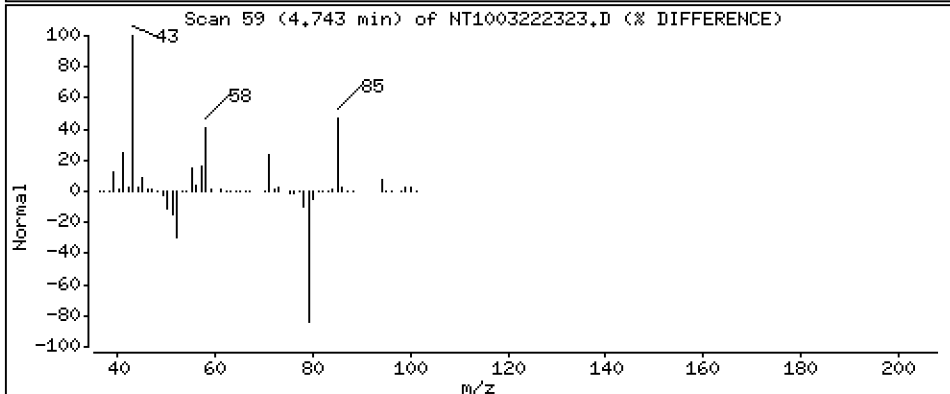
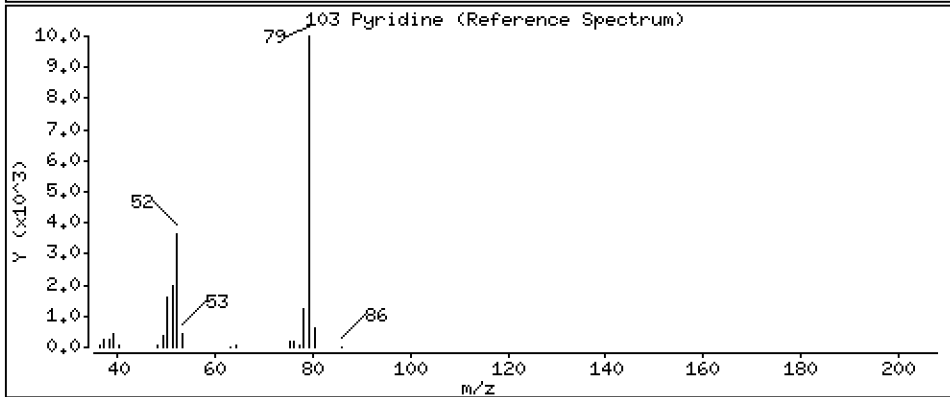
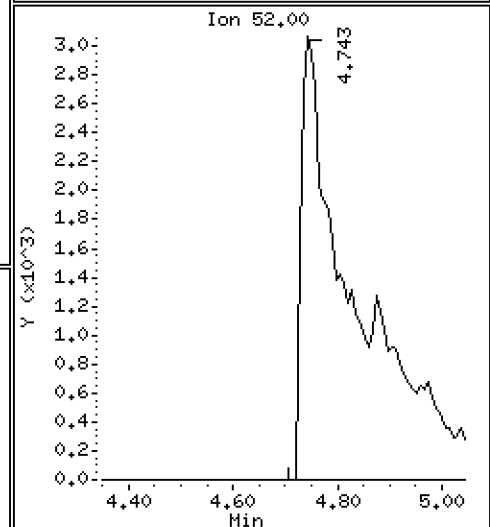
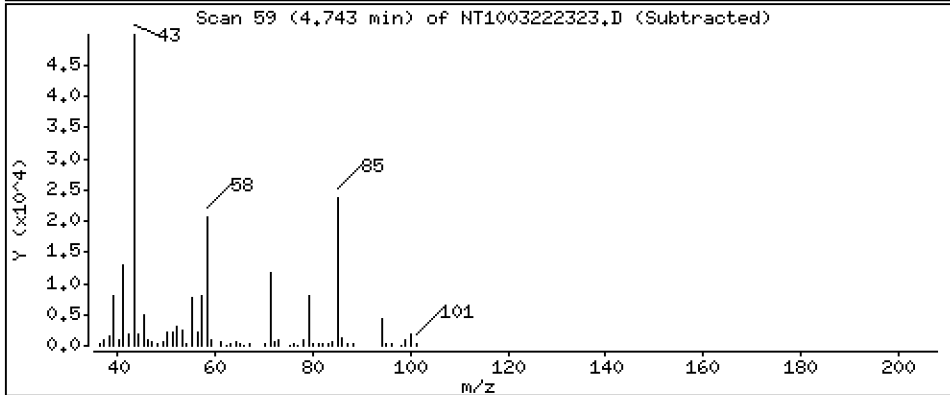
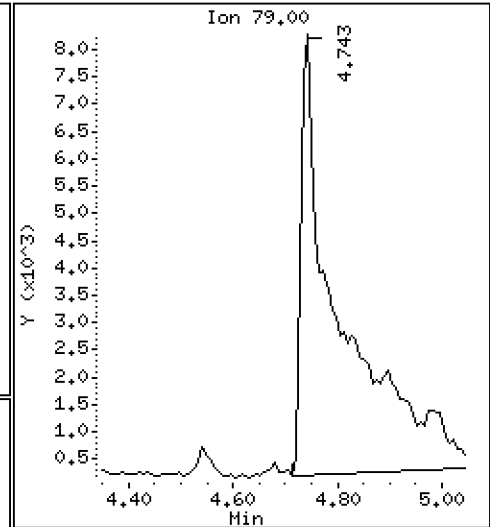
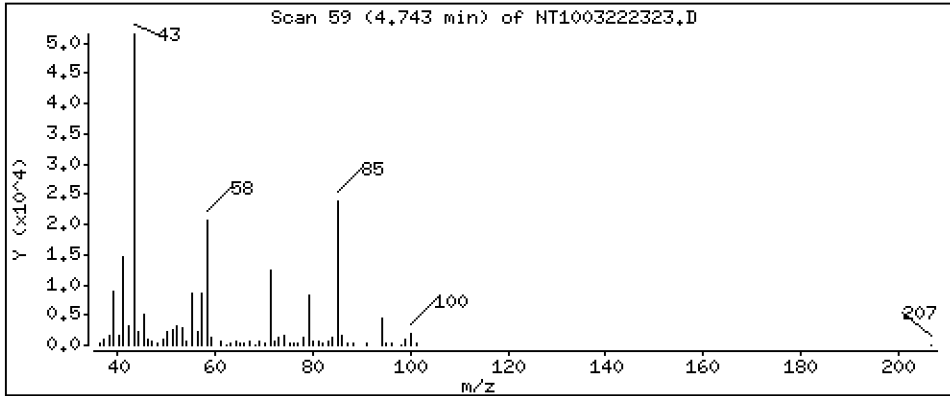
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 1,030 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

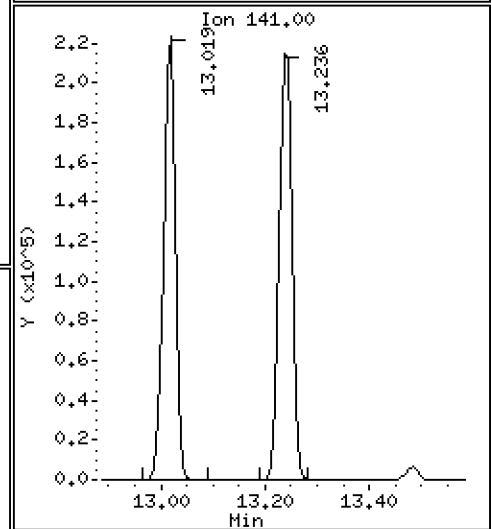
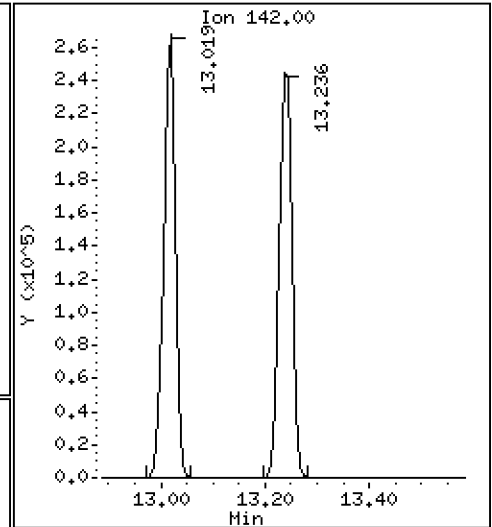
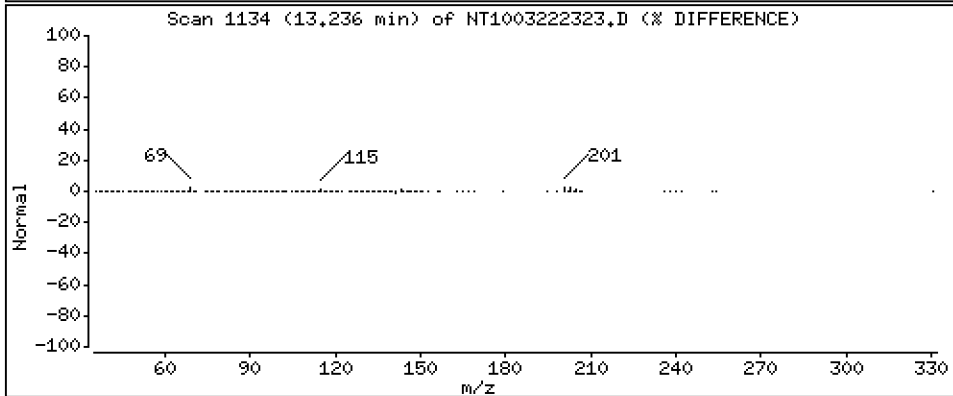
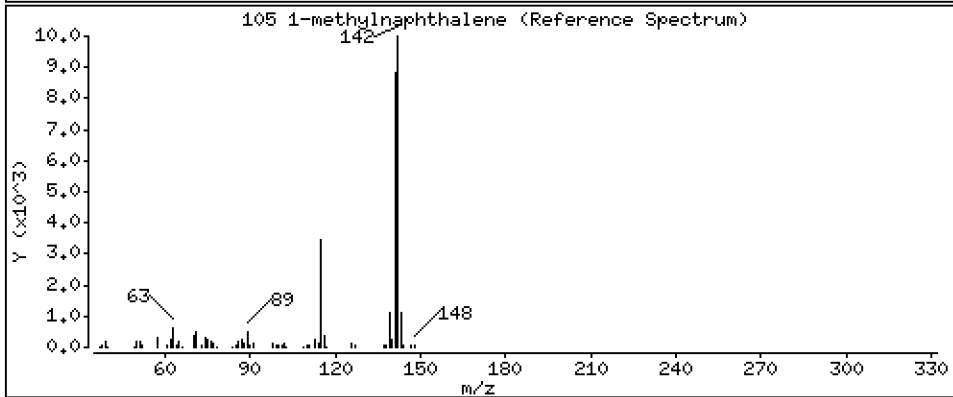
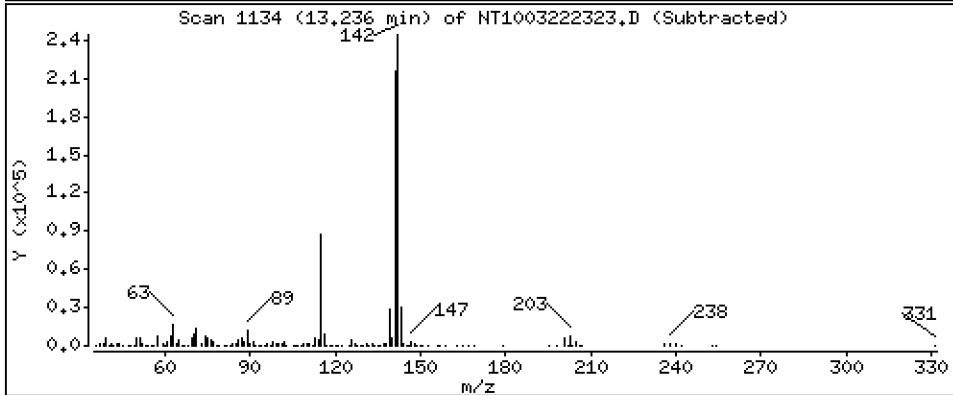
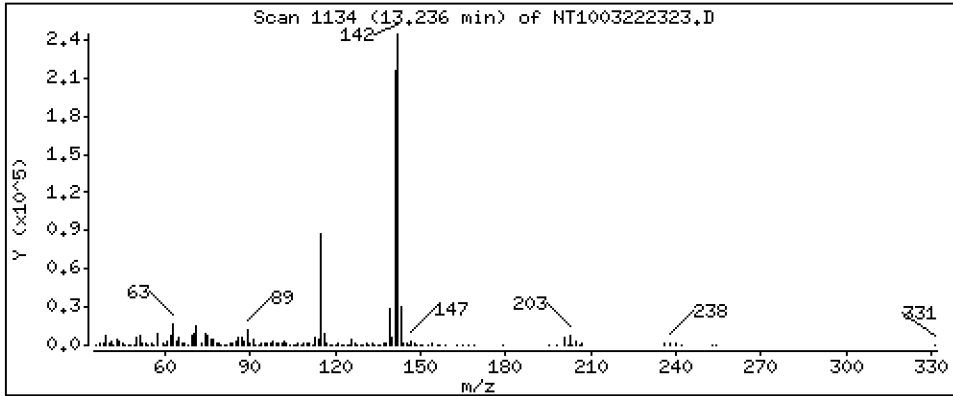
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,306 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

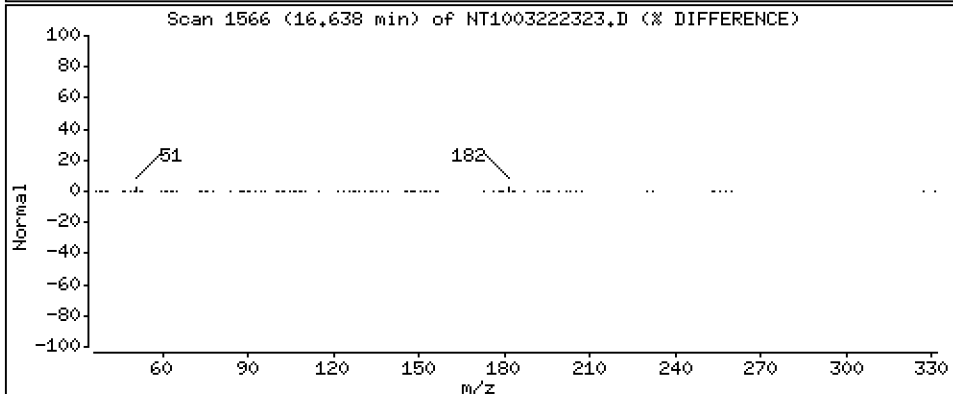
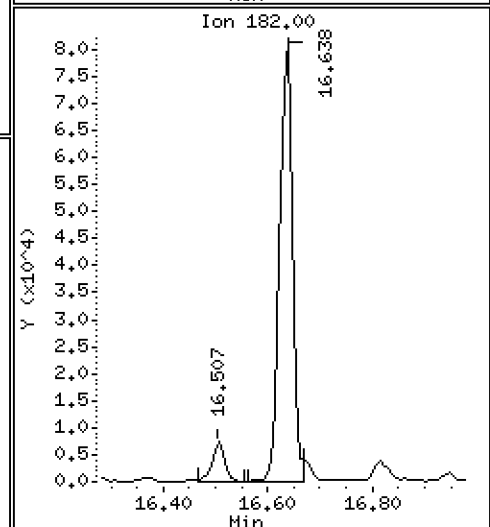
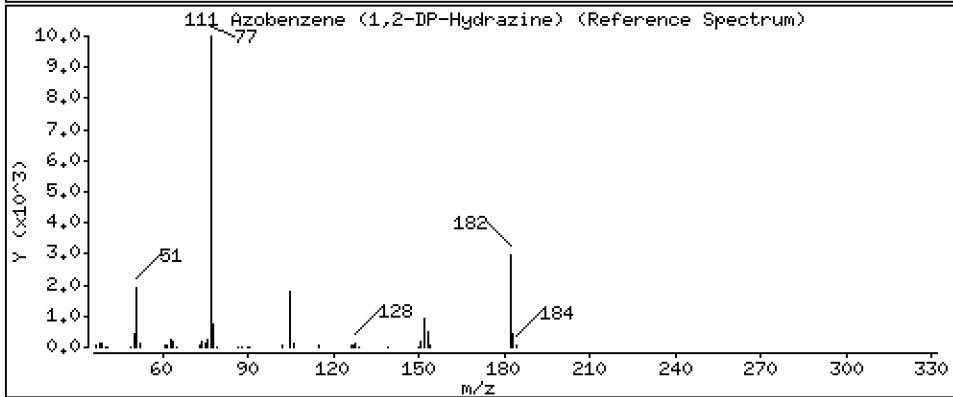
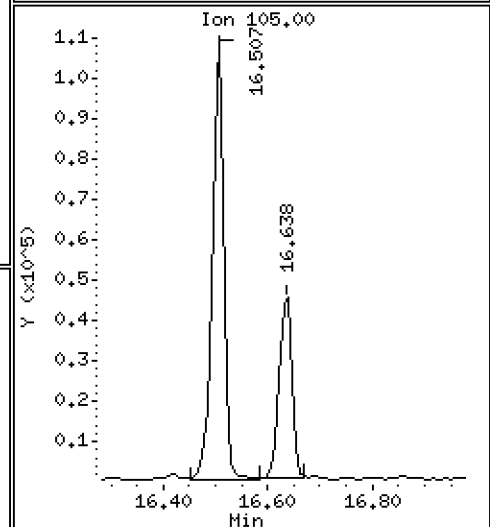
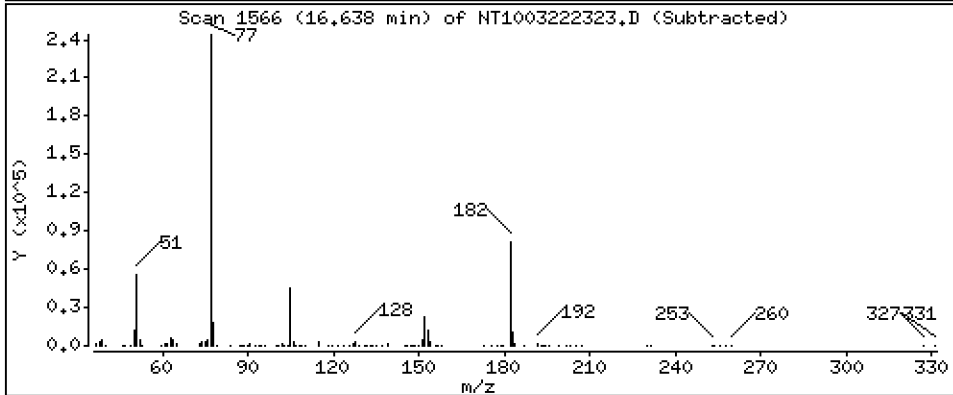
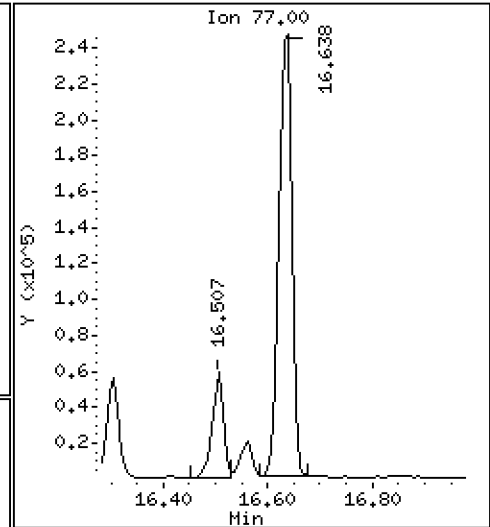
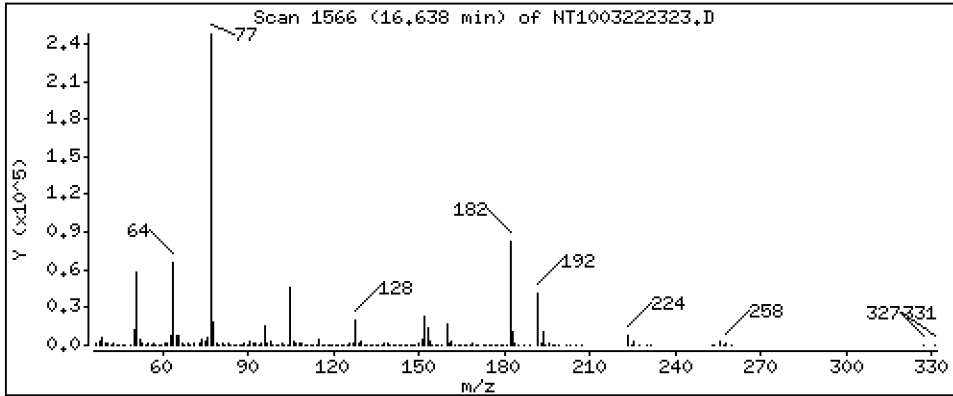
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 3,859 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

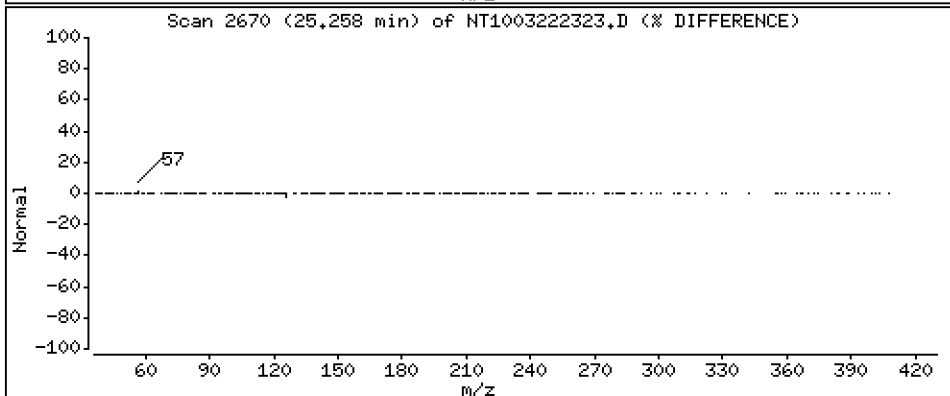
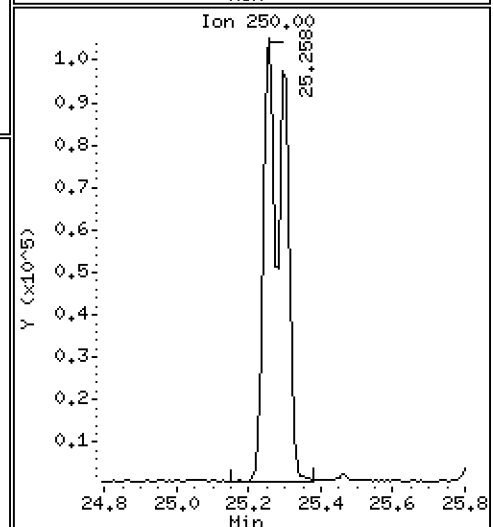
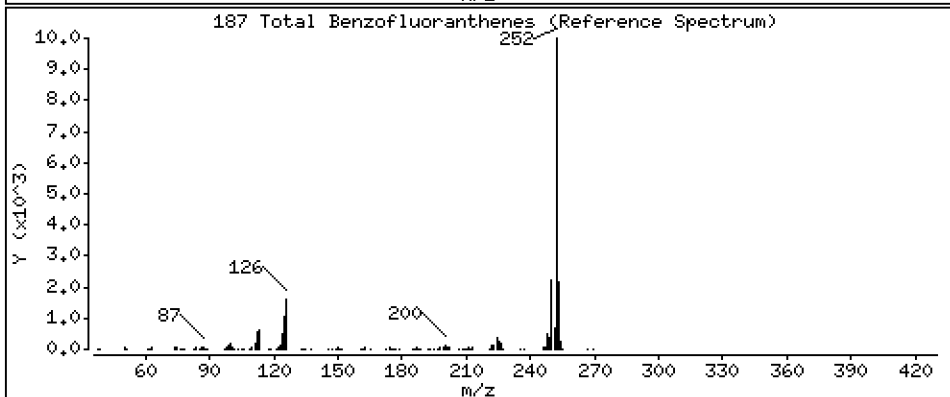
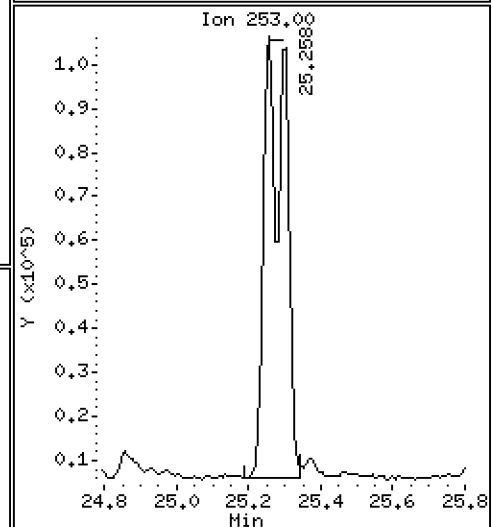
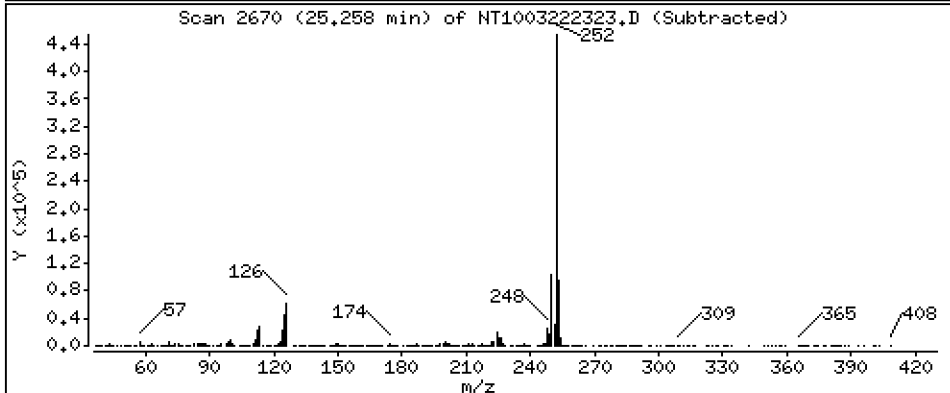
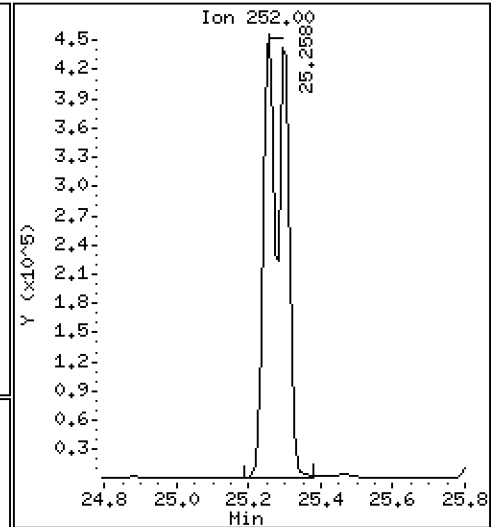
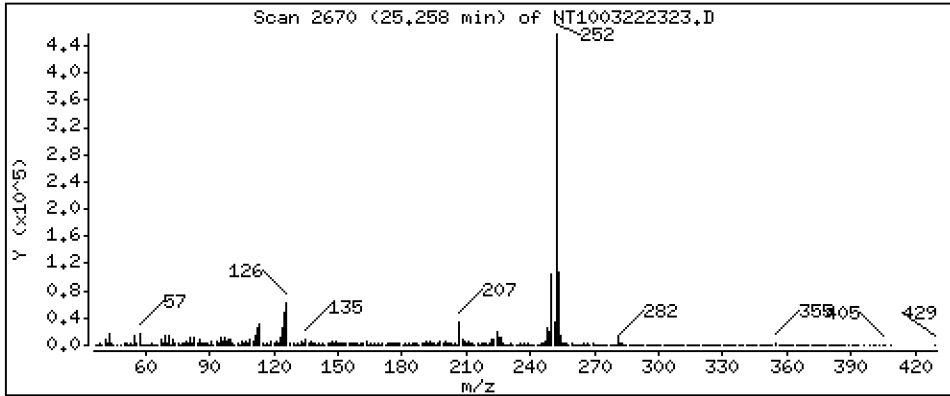
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,952 ug/mL



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

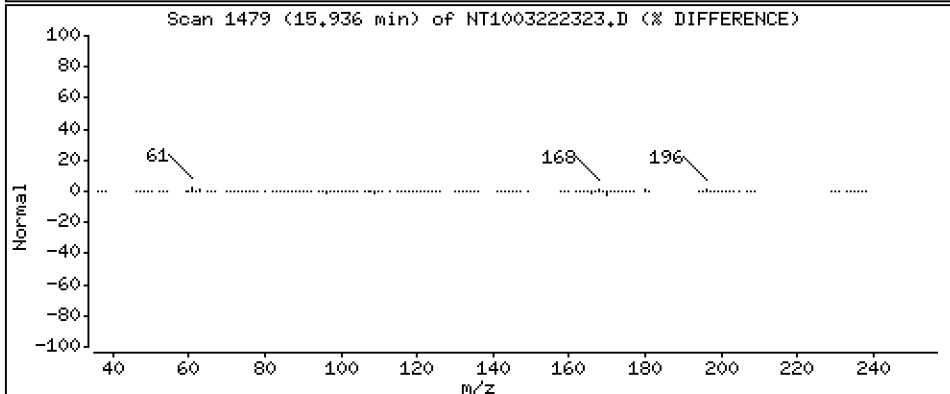
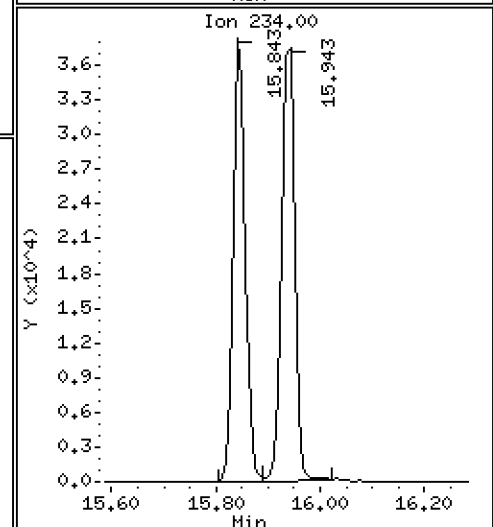
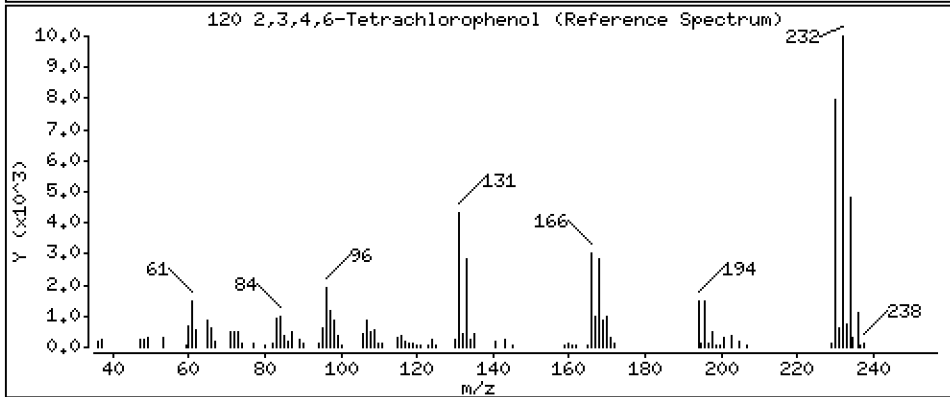
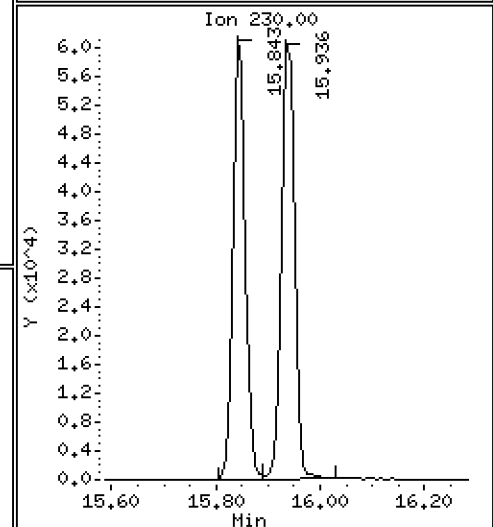
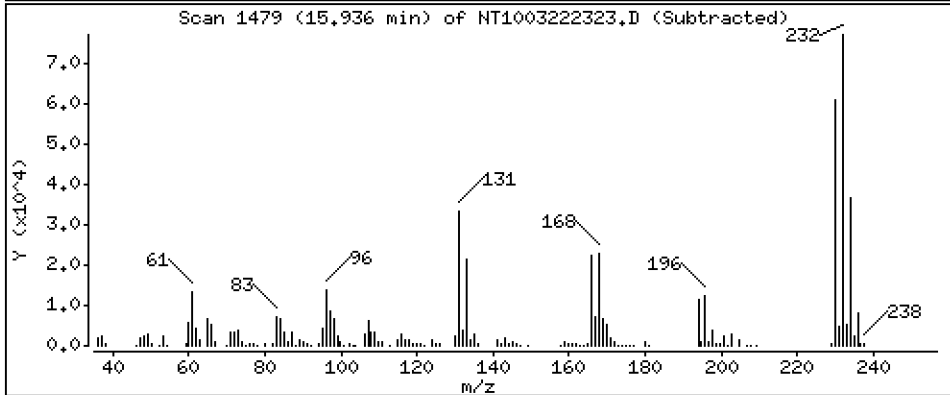
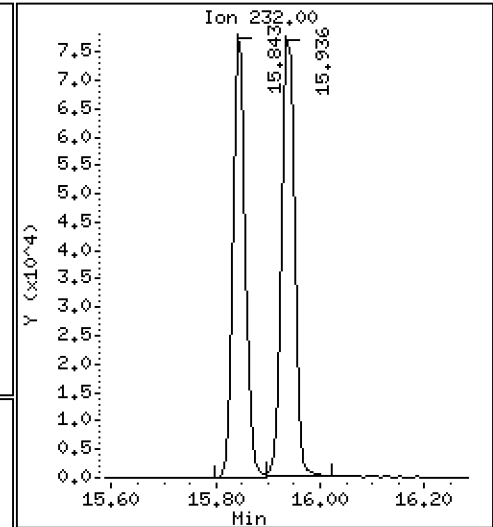
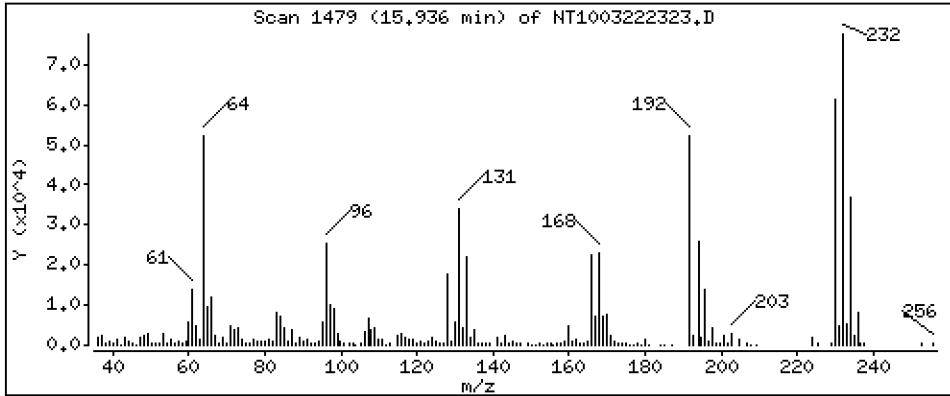
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 4,699 ug/mL





ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222323.D  
 Lab Smp Id: BLC0442-MSD1  
 Inj Date : 23-MAR-2023 07:01  
 Operator : VTS  
 Smp Info : BLC0442-MSD1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 10:11 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 18  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
|                                 |       |     |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| \$ 1 2-Fluorophenol             | 112   |     | 6.859  | 6.851  | (0.755) | 244672   | 5.64898              | 5.649            |
| \$ 2 Phenol-d5                  | 99    |     | 8.450  | 8.450  | (0.930) | 341556   | 6.01123              | 6.011            |
| 3 Phenol                        | 94    |     | 8.473  | 8.474  | (0.933) | 230307   | 3.90056              | 3.901            |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.728  | 8.721  | (0.961) | 298103   | 6.14392              | 6.144            |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.628  | 8.628  | (0.950) | 232460   | 5.30827              | 5.308            |
| 6 2-Chlorophenol                | 128   |     | 8.751  | 8.752  | (0.963) | 186013   | 3.68095              | 3.681            |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.022  | 9.022  | (0.993) | 198807   | 3.72125              | 3.721            |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.084  | 9.085  | (1.000) | 143224   | 4.00000              |                  |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.115  | 9.116  | (1.003) | 194835   | 3.77518              | 3.775            |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.449  | 9.441  | (1.040) | 131564   | 3.77571              | 3.776            |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.472  | 9.473  | (1.043) | 193312   | 3.80601              | 3.806            |
| 11 Benzyl alcohol               | 108   |     | 9.356  | 9.356  | (1.030) | 109540   | 3.95255              | 3.953            |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.659  | 9.659  | (1.063) | 64794    | 4.34394              | 4.344            |
| 13 2-Methylphenol               | 108   |     | 9.589  | 9.589  | (1.056) | 128584   | 2.98743              | 2.987            |
| 17 Hexachloroethane             | 117   |     | 10.062 | 10.063 | (1.108) | 66919    | 3.16033              | 3.160            |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.915  | 9.915  | (1.091) | 131748   | 3.87652              | 3.877            |
| 15 4-Methylphenol               | 108   |     | 9.868  | 9.861  | (1.086) | 162994   | 3.59405              | 3.594            |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.187 | 10.179 | (0.880) | 211847   | 3.94018              | 3.940            |
| 19 Nitrobenzene                 | 77    |     | 10.218 | 10.218 | (0.882) | 200633   | 3.80245              | 3.802            |
| 20 Isophorone                   | 82    |     | 10.668 | 10.668 | (0.921) | 376264   | 5.57433              | 5.574            |
| 21 2-Nitrophenol                | 139   |     | 10.850 | 10.850 | (0.937) | 128325   | 4.97514              | 4.975            |
| 22 2,4-Dimethylphenol           | 107   |     | 10.909 | 10.901 | (0.942) | 140742   | 2.90405              | 2.904            |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.096 | 11.096 | (0.958) | 215167   | 4.77215              | 4.772            |
| 24 Benzoic acid                 | 105   |     | 11.130 | 11.105 | (0.961) | 685854   | 24.0480              | 24.05            |
| 25 2,4-Dichlorophenol           | 162   |     | 11.308 | 11.308 | (0.977) | 554226   | 14.2905              | 14.29            |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.495 | 11.487 | (0.993) | 177845   | 3.90653              | 3.907            |
| * 27 Naphthalene-d8             | 136   |     | 11.580 | 11.572 | (1.000) | 532672   | 4.00000              |                  |
| 28 Naphthalene                  | 128   |     | 11.618 | 11.618 | (1.003) | 566246   | 4.01272              | 4.013            |
| 29 4-Chloroaniline              | 127   |     | 11.773 | 11.750 | (1.017) | 110745   | 2.01169              | 2.012            |
| 30 Hexachlorobutadiene          | 225   |     | 11.981 | 11.981 | (1.035) | 112743   | 4.22653              | 4.227            |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.717 | 12.717 | (1.098) | 537435   | 12.8008              | 12.80            |
| 32 2-Methylnaphthalene          | 142   |     | 13.018 | 13.018 | (1.124) | 417545   | 4.10020              | 4.100            |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.483 | 13.483 | (0.887) | 88014    | 3.21491              | 3.215            |

| Compounds                         | QUANT SIG |                        |        |         |          | CONCENTRATIONS       |                  |
|-----------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|
|                                   | MASS      | RT                     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 13.645                 | 13.638 | (0.898) | 413033   | 14.1272              | 14.13            |
| 35 2,4,5-Trichlorophenol          | 196       | 13.723                 | 13.715 | (0.903) | 469630   | 14.4564              | 14.46            |
| § 36 2-Fluorobiphenyl             | 172       | 13.800                 | 13.800 | (0.908) | 491187   | 4.19768              | 4.198            |
| 37 2-Chloronaphthalene            | 162       | 14.009                 | 14.009 | (0.922) | 391752   | 4.13471              | 4.135            |
| 38 2-Nitroaniline                 | 65        | 14.280                 | 14.272 | (0.939) | 319852   | 12.0179              | 12.02            |
| 39 Dimethylphthalate              | 163       | 14.713                 | 14.706 | (0.968) | 447805   | 4.65998              | 4.660            |
| 40 Acenaphthylene                 | 152       | 14.891                 | 14.884 | (0.980) | 572753   | 3.87942              | 3.879            |
| 41 2,6-Dinitrotoluene             | 165       | 14.853                 | 14.845 | (0.977) | 302743   | 14.5837              | 14.58            |
| * 42 Acenaphthene-d10             | 164       | 15.201                 | 15.201 | (1.000) | 295809   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138       | 15.139                 | 15.131 | (0.996) | 155206   | 6.62406              | 6.624            |
| 44 Acenaphthene                   | 153       | 15.270                 | 15.263 | (1.005) | 388141   | 4.25553              | 4.256            |
| 45 2,4-Dinitrophenol              | 184       | 15.348                 | 15.348 | (1.010) | 216649   | 16.7207              | 16.72            |
| 46 Dibenzofuran                   | 168       | 15.595                 | 15.595 | (1.026) | 573291   | 4.26236              | 4.262            |
| 47 4-Nitrophenol                  | 109       | 15.471                 | 15.464 | (1.018) | 178400   | 12.1983              | 12.20            |
| 48 2,4-Dinitrotoluene             | 165       | 15.664                 | 15.657 | (1.031) | 421420   | 13.7229              | 13.72            |
| 50 Diethylphthalate               | 149       | 16.175                 | 16.175 | (1.064) | 547586   | 5.80779              | 5.808            |
| 49 Fluorene                       | 166       | 16.314                 | 16.314 | (1.073) | 477509   | 4.51264              | 4.513            |
| 51 4-Chlorophenyl-phenylether     | 204       | 16.306                 | 16.306 | (1.073) | 237813   | 4.72613              | 4.726            |
| 52 4-Nitroaniline                 | 138       | 16.414                 | 16.406 | (1.080) | 194862   | 9.22840              | 9.228            |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 16.507                 | 16.507 | (0.904) | 450877   | 25.2079              | 25.21            |
| 54 N-Nitrosodiphenylamine         | 169       | 16.560                 | 16.561 | (0.907) | 278368   | 3.61639              | 3.616            |
| § 55 2,4,6-Tribromophenol         | 330       | 16.854                 | 16.846 | (1.109) | 116833   | 8.48895              | 8.489            |
| 56 4-Bromophenyl-phenylether      | 248       | 17.316                 | 17.316 | (0.948) | 157648   | 4.89567              | 4.896            |
| 57 Hexachlorobenzene              | 284       | 17.633                 | 17.634 | (0.966) | 158032   | 4.68084              | 4.681            |
| 58 Pentachlorophenol              | 266       | 17.997                 | 17.990 | (0.986) | 320464   | 15.5608              | 15.56            |
| * 59 Phenanthrene-d10             | 188       | 18.260                 | 18.260 | (1.000) | 575737   | 4.00000              |                  |
| 60 Phenanthrene                   | 178       | 18.307                 | 18.307 | (1.003) | 700252   | 4.46046              | 4.460            |
| 61 Anthracene                     | 178       | 18.400                 | 18.400 | (1.008) | 571269   | 3.79341              | 3.793            |
| 62 Carbazole                      | 167       | 18.740                 | 18.732 | (1.026) | 590518   | 4.37593              | 4.376            |
| 63 Di-n-butylphthalate            | 149       | 19.552                 | 19.545 | (1.071) | 866824   | 4.80176              | 4.802            |
| 64 Fluoranthene                   | 202       | 20.759                 | 20.713 | (0.889) | 878351   | 4.40347              | 4.403            |
| 65 Pyrene                         | 202       | 21.154                 | 21.139 | (0.906) | 949069   | 4.63824              | 4.638            |
| § 66 Terphenyl-d14                | 244       | 21.440                 | 21.433 | (0.918) | 680387   | 4.42775              | 4.428            |
| 67 Butylbenzylphthalate           | 149       | 22.377                 | 22.377 | (0.958) | 373567   | 5.03681              | 5.037            |
| 68 Benzo(a)anthracene             | 228       | 23.330                 | 23.322 | (0.999) | 813749   | 4.64419              | 4.644            |
| * 69 Chrysene-d12                 | 240       | 23.353                 | 23.353 | (1.000) | 496414   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252       | 23.291                 | 23.283 | (0.997) | 75564    | 1.34635              | 1.346            |
| 71 Chrysene                       | 228       | 23.407                 | 23.399 | (1.002) | 764213   | 4.46424              | 4.464            |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 23.415                 | 23.415 | (0.959) | 556116   | 4.38943              | 4.389            |
| * 134 Di-n-octylphthalate-d4      | 153       | 24.421                 | 24.421 | (1.000) | 863843   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149       | 24.437                 | 24.437 | (1.001) | 1022019  | 4.52097              | 4.521            |
| 74 Benzo(b)fluoranthene           | 252       | 25.257                 | 25.250 | (0.970) | 1018469  | 5.38816              | 5.388            |
| 75 Benzo(k)fluoranthene           | 252       | 25.296                 | 25.296 | (0.971) | 897497   | 4.67606              | 4.676            |
| 76 Benzo(a)pyrene                 | 252       | 25.931                 | 25.923 | (0.996) | 776710   | 4.59607              | 4.596            |
| * 77 Perylene-d12                 | 264       | 26.047                 | 26.040 | (1.000) | 583123   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 28.800                 | 28.793 | (1.106) | 929489   | 4.32318              | 4.323            |
| 79 Dibenzo(a,h)anthracene         | 278       | 28.824                 | 28.816 | (1.107) | 762850   | 4.27369              | 4.274            |
| 80 Benzo(g,h,i)perylene           | 276       | 29.608                 | 29.601 | (1.137) | 740409   | 3.97928              | 3.979            |
| 90 N-Nitrosodimethylamine         | 74        | 4.673                  | 4.665  | (0.514) | 223857   | 8.10121              | 8.101            |
| 91 Aniline                        | 93        | Compound Not Detected. |        |         |          |                      |                  |
| 93 Benzidine                      | 184       | Compound Not Detected. |        |         |          |                      |                  |
| 103 Pyridine                      | 79        | 4.742                  | 4.696  | (0.522) | 43699    | 1.02972              | 1.030 (M)        |
| 105 1-methylnaphthalene           | 142       | 13.235                 | 13.235 | (1.143) | 401766   | 4.30605              | 4.306            |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 16.638                 | 16.630 | (1.095) | 406448   | 3.85910              | 3.859            |

| Compounds                     | QUANT SIG |  | CONCENTRATIONS |        |         |          |                      |                  |
|-------------------------------|-----------|--|----------------|--------|---------|----------|----------------------|------------------|
|                               | MASS      |  | RT             | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       |  | 25.257         | 25.296 | (0.970) | 1816353  | 9.95244              | 9.952            |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 15.935         | 15.935 | (1.048) | 144217   | 4.69918              | 4.699            |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-MAR-2023  
 Lab File ID: NT1003222323.D Calibration Time: 03:15  
 Lab Smp Id: BLC0442-MSD1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 137603   | 68802      | 275206  | 143224 | 4.08  |
| 27 Naphthalene-d8     | 494588   | 247294     | 989176  | 532672 | 7.70  |
| 42 Acenaphthene-d10   | 278674   | 139337     | 557348  | 295809 | 6.15  |
| 59 Phenanthrene-d10   | 509229   | 254615     | 1018458 | 575737 | 13.06 |
| 69 Chrysene-d12       | 462271   | 231136     | 924542  | 496414 | 7.39  |
| 134 Di-n-octylphthala | 782572   | 391286     | 1565144 | 863843 | 10.39 |
| 77 Perylene-d12       | 551153   | 275577     | 1102306 | 583123 | 5.80  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.09     | 8.59     | 9.59  | 9.08   | -0.00 |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.58  | 0.07  |
| 42 Acenaphthene-d10   | 15.20    | 14.70    | 15.70 | 15.20  | -0.00 |
| 59 Phenanthrene-d10   | 18.26    | 17.76    | 18.76 | 18.26  | -0.00 |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.35  | -0.00 |
| 134 Di-n-octylphthala | 24.42    | 23.92    | 24.92 | 24.42  | -0.00 |
| 77 Perylene-d12       | 26.04    | 25.54    | 26.54 | 26.05  | 0.03  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222323.D

Lab ID: BLC0442-MSD1  
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 07:01

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND |
|-------|---------|--------|----------|
| 0.522 | 0.517   | 0.0051 | Pyridine |

RRT check based on Ccal File: NT1003222317.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

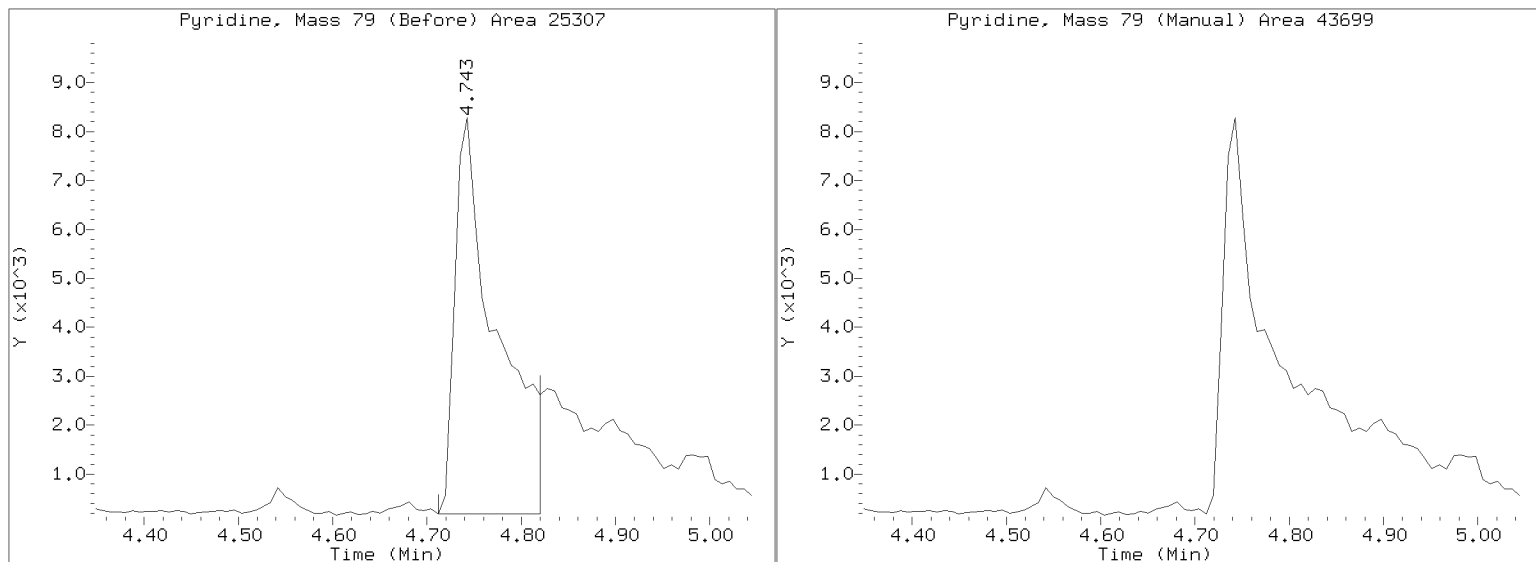
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222323.D

Injection Date: 23-MAR-2023 07:01

Lab ID: BLC0442-MSD1 Client ID:

Report Date: 03/25/2023 10:12





## STANDARD REFERENCE MATERIAL RECOVERY

### EPA 8270E

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Matrix:** Solid

**Laboratory ID:** BLA0557-SRM1

**Batch:** BLA0557

**Initial/Final:** 1 g / 1 mL

**Preparation:** EPA 3546 (Microwave)

**Analyzed:** 03/01/2023 18:28

**Standard ID:** K003477

**Expires:** 01/31/2024

**Standard Lot#:** CRM 143 (LRAC8918)

**Description:** CRM 143 BNAs - Sandy Loam

| ANALYTE                    | TRUE<br>(ug/kg wet) | FOUND<br>(ug/kg wet) | MDL  | MRL | Q | SRM<br>%<br>REC. | QC<br>LIMITS<br>REC. |
|----------------------------|---------------------|----------------------|------|-----|---|------------------|----------------------|
| Phenol                     | 2660.0              | 2600                 | 43.9 | 200 | B | 97.6             | 26 - 174             |
| 4-Methylphenol             | 6617.0              | 5880                 | 73.9 | 200 |   | 88.8             | 40 - 160             |
| Naphthalene                | 4458.0              | 2410                 | 42.4 | 200 |   | 54.2             | 25 - 175             |
| Acenaphthylene             | 1948.0              | 1590                 | 62.4 | 200 |   | 81.8             | 37 - 167             |
| Dimethylphthalate          | 4537.0              | 5360                 | 43.9 | 200 |   | 118              | 41 - 159             |
| Acenaphthene               | 5489.0              | 4820                 | 52.2 | 200 |   | 87.8             | 41 - 159             |
| Dibenzofuran               | 6130.0              | 5600                 | 141  | 200 |   | 91.4             | 45 - 155             |
| Fluorene                   | 3724.0              | 3530                 | 146  | 200 |   | 94.8             | 44 - 156             |
| Phenanthrene               | 5052.0              | 4720                 | 87.2 | 200 |   | 93.4             | 46 - 154             |
| Anthracene                 | 2866.0              | 2300                 | 71.9 | 200 |   | 80.4             | 42 - 158             |
| Fluoranthene               | 2497.0              | 2650                 | 60.9 | 200 |   | 106              | 39 - 161             |
| Pyrene                     | 2964.0              | 3160                 | 56.8 | 200 |   | 107              | 38 - 162             |
| Butylbenzylphthalate       | 3511.0              | 4190                 | 94.1 | 200 |   | 119              | 36 - 164             |
| Benzo(a)anthracene         | 5751.0              | 5920                 | 59.6 | 200 |   | 103              | 49 - 151             |
| Chrysene                   | 1477.0              | 1420                 | 60.6 | 200 |   | 96.4             | 45 - 155             |
| bis(2-Ethylhexyl)phthalate | 2905.0              | 2620                 | 54.6 | 500 |   | 90.1             | 26 - 174             |
| Benzofluoranthenes, Total  | 6534.0              | 5450                 | 100  | 400 |   | 83.4             | 40 - 160             |
| Benzo(a)pyrene             | 5902.0              | 4740                 | 42.3 | 200 |   | 80.3             | 43 - 157             |
| Indeno(1,2,3-cd)pyrene     | 3914.0              | 2610                 | 147  | 200 | Q | 66.7             | 22 - 178             |
| Dibenzo(a,h)anthracene     | 3420.0              | 2510                 | 172  | 200 | Q | 73.5             | 37 - 163             |
| Benzo(g,h,i)perylene       | 1380.0              | 689                  | 136  | 200 | Q | 49.9             | 35 - 165             |

\* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022829.D

Date: 01-MAR-2023 18:28

Client ID:

Sample Info: BLR0557-SRM1

Page 1

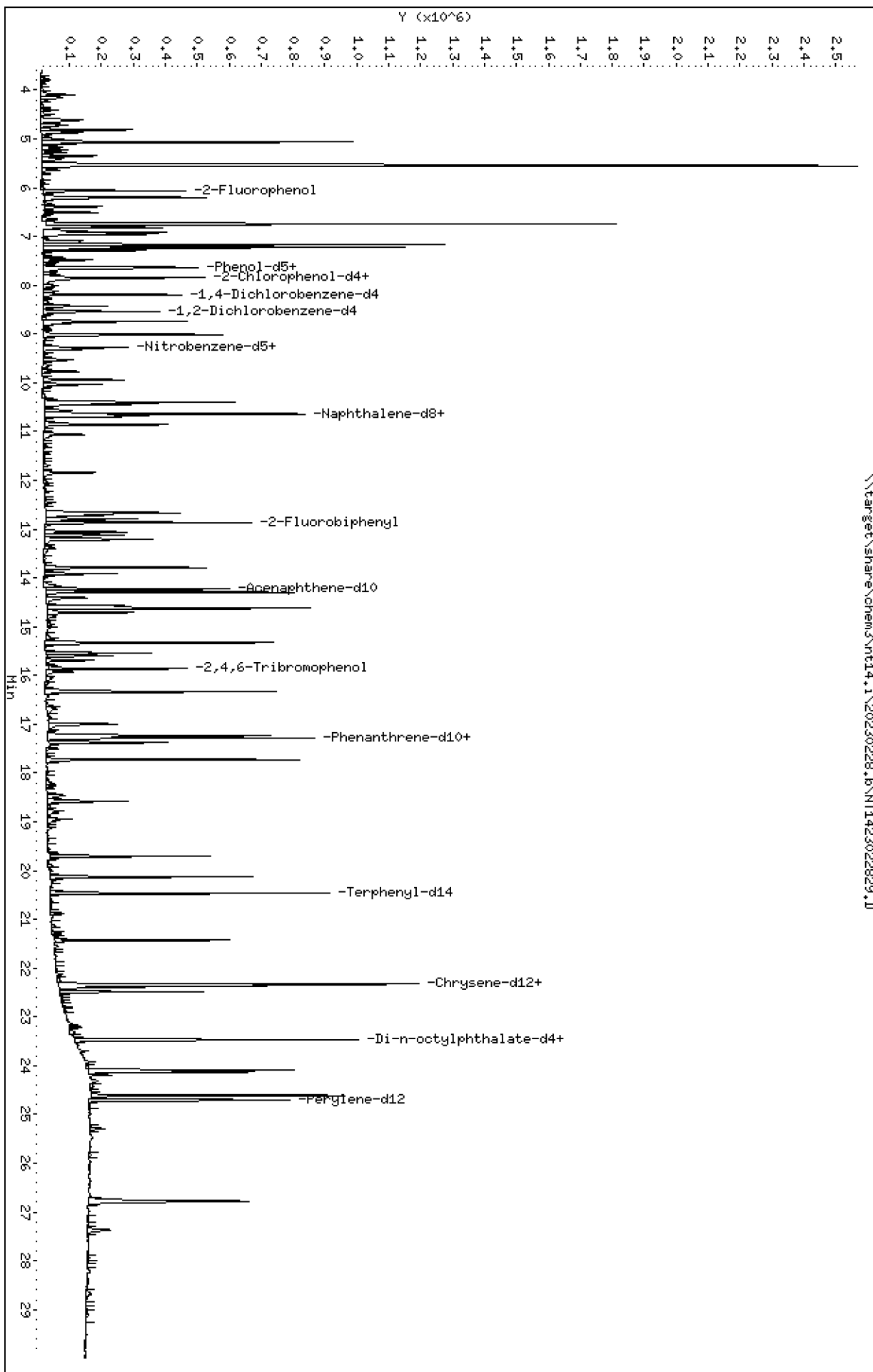
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022829.D





Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

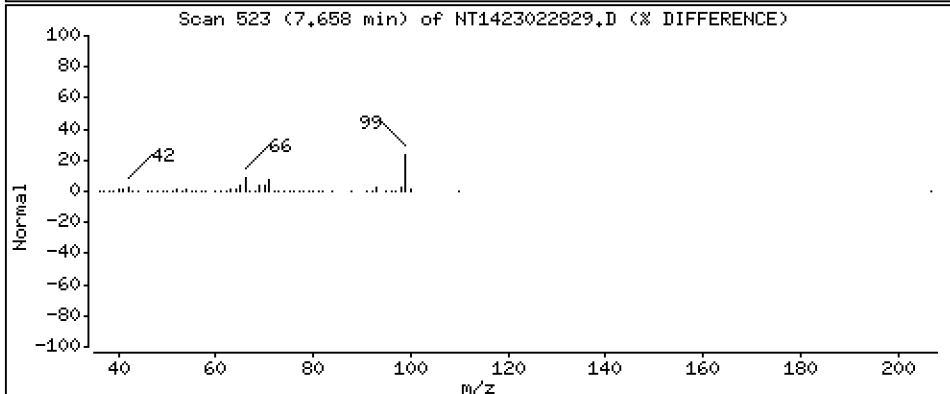
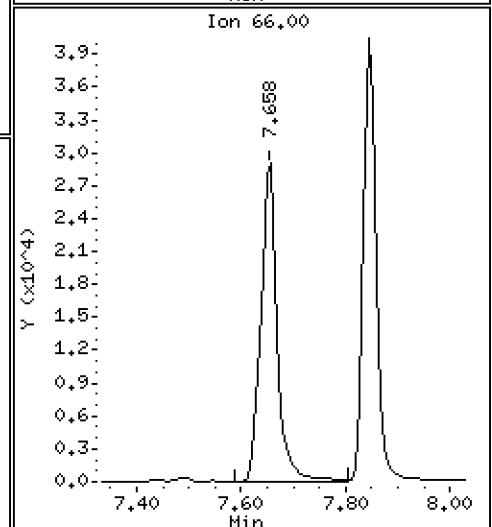
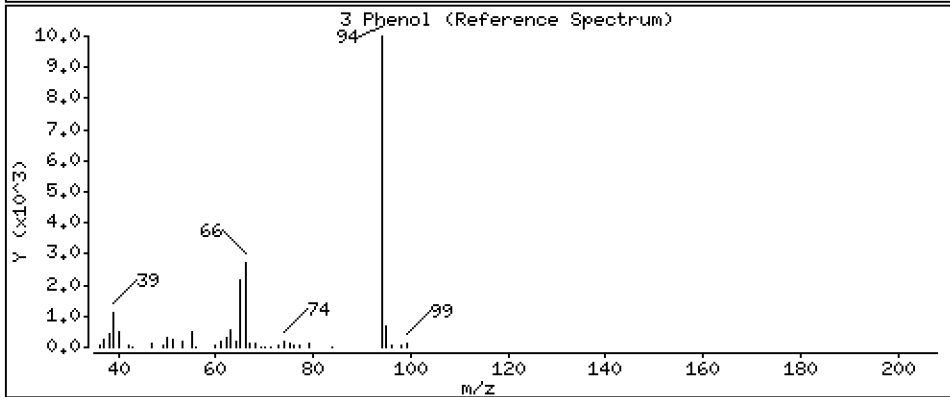
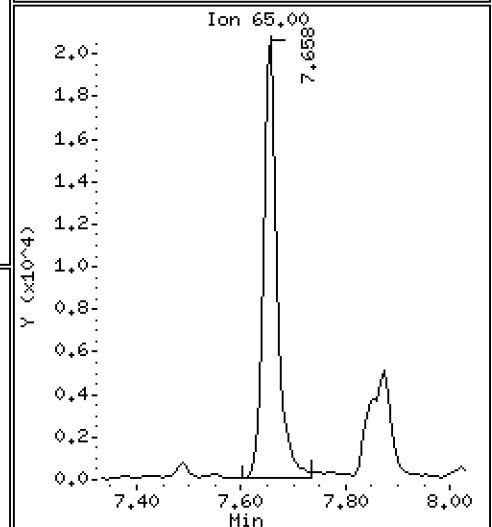
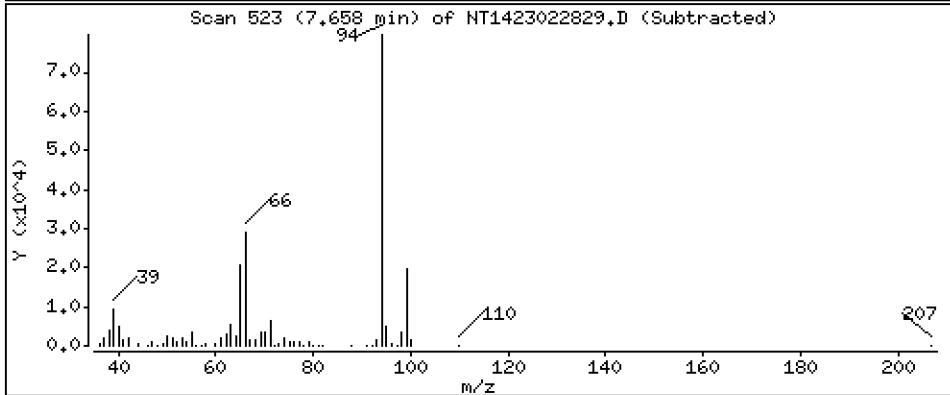
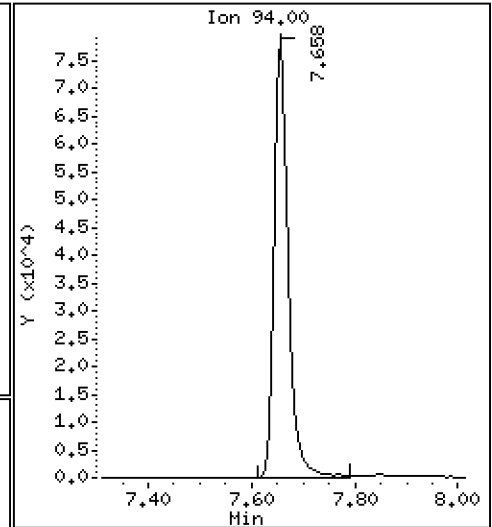
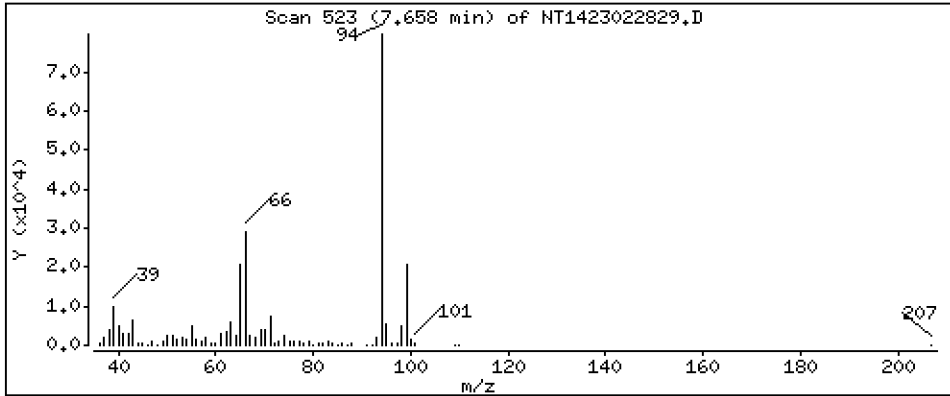
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 2.596 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

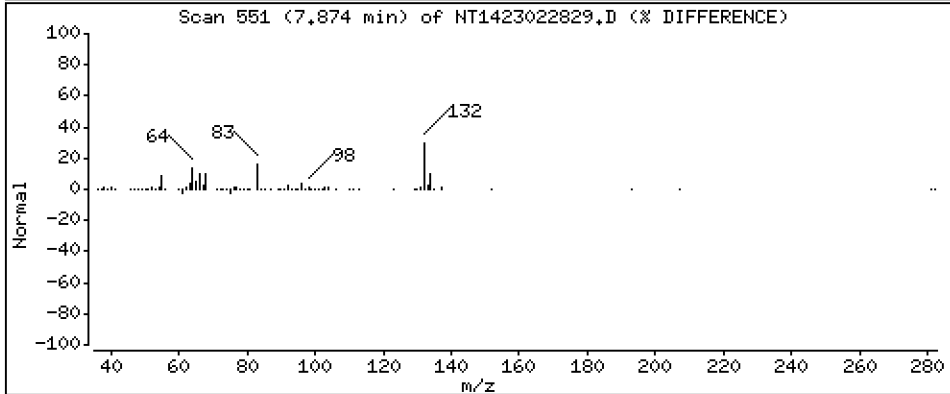
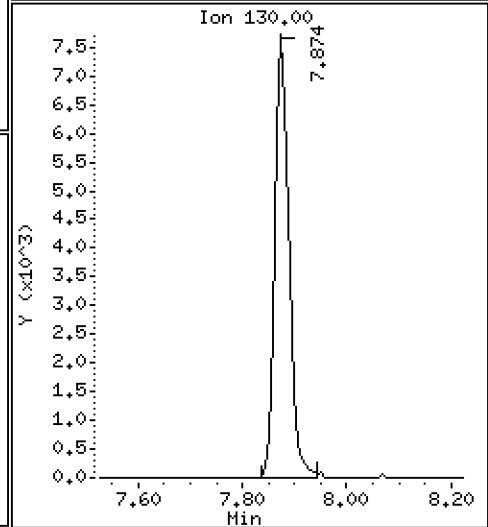
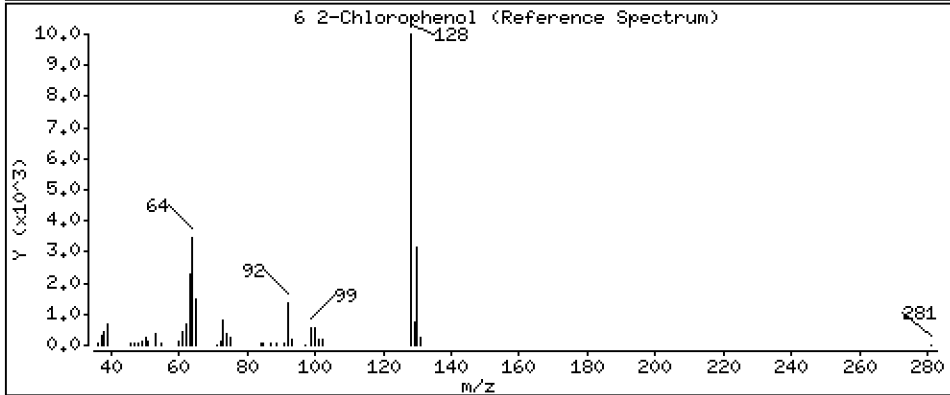
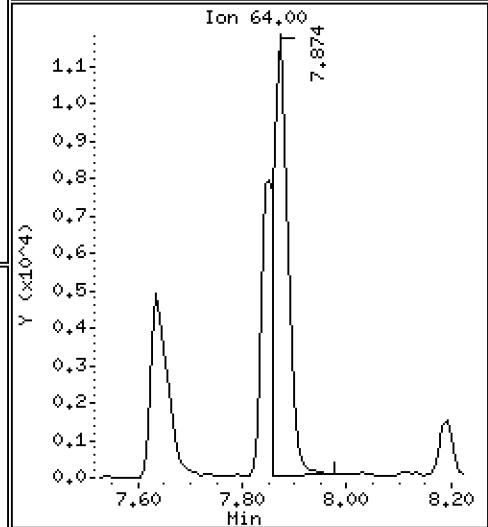
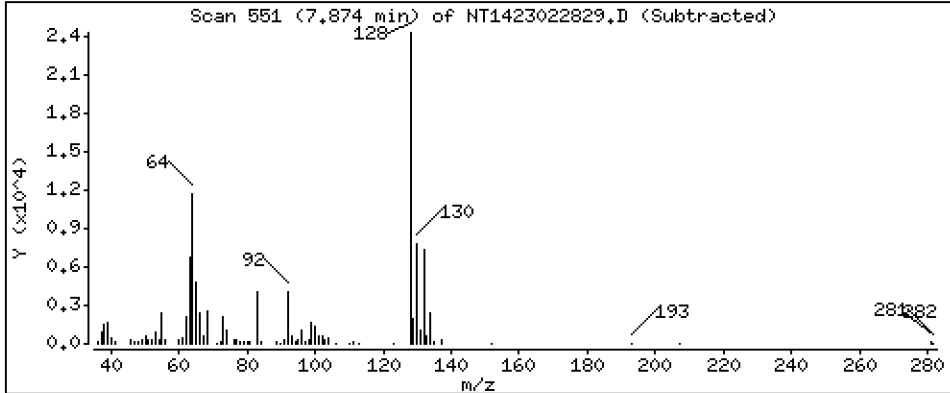
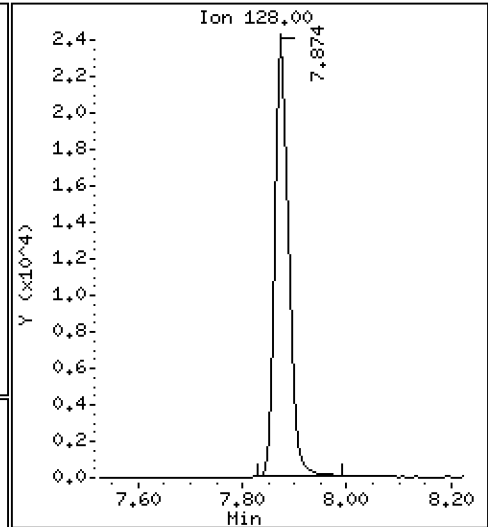
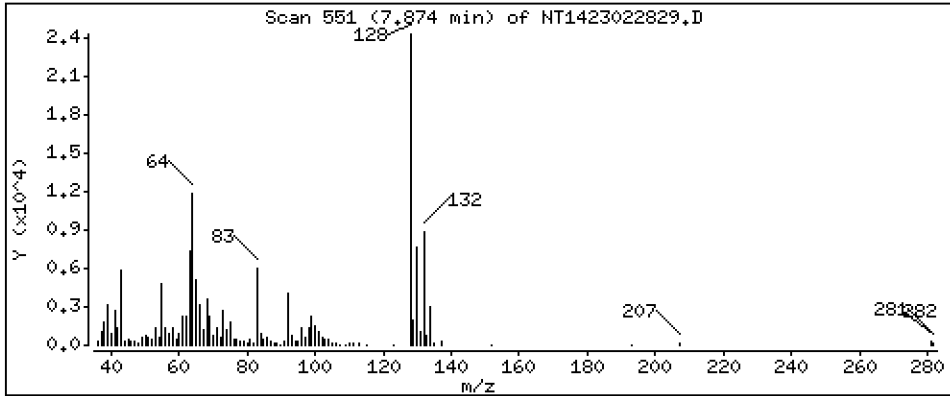
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 1,074 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

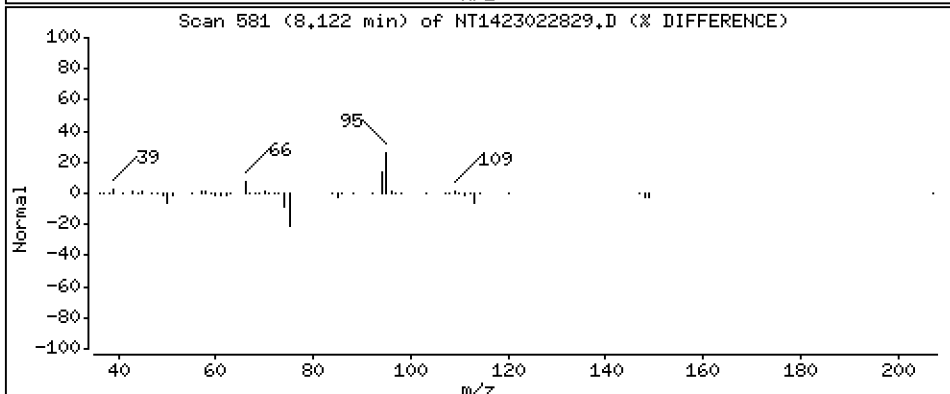
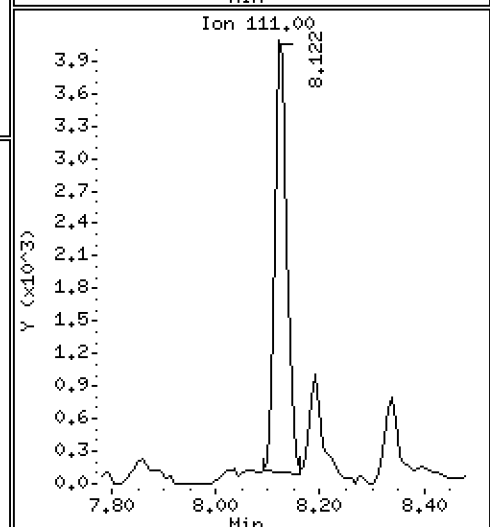
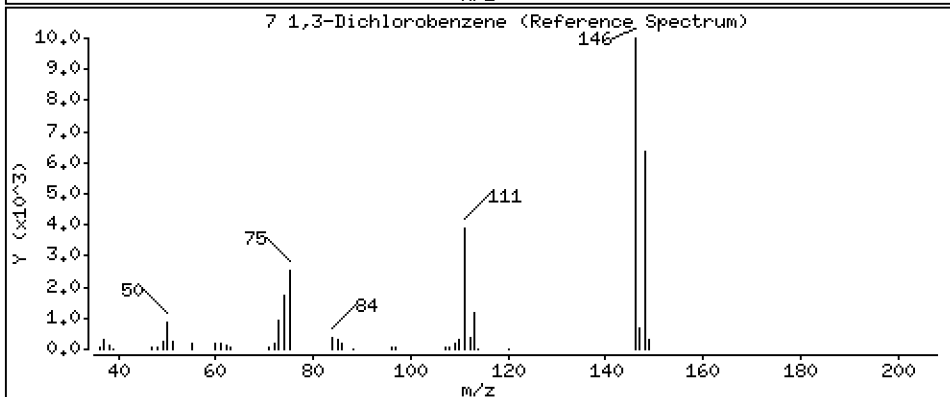
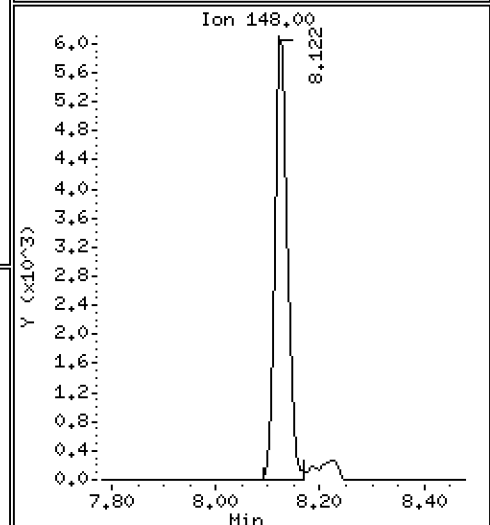
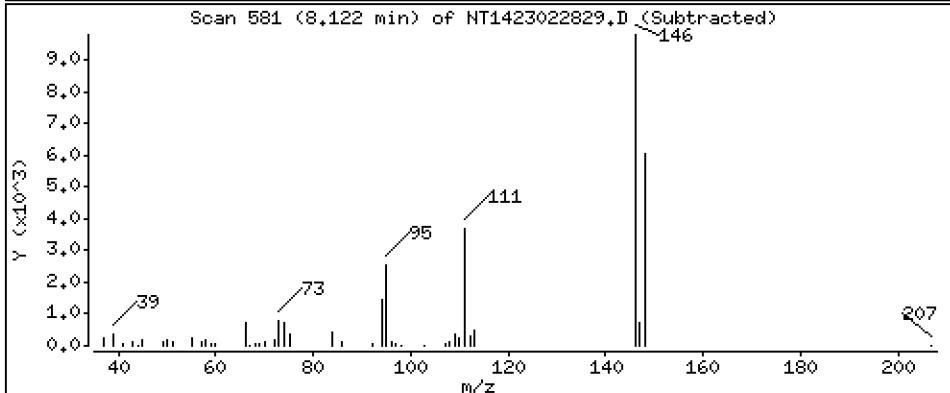
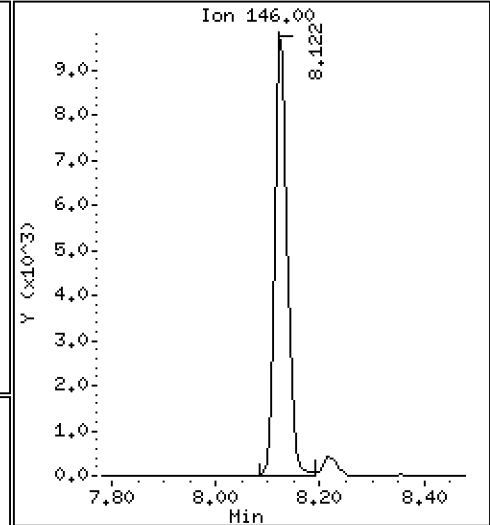
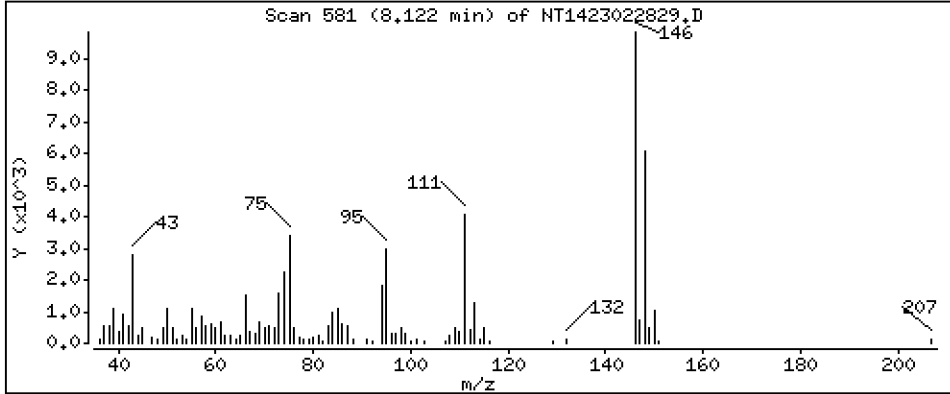
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,3681 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

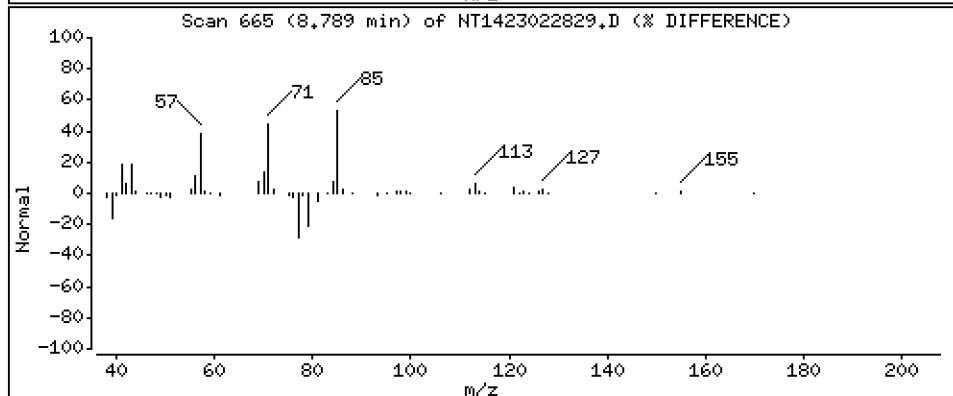
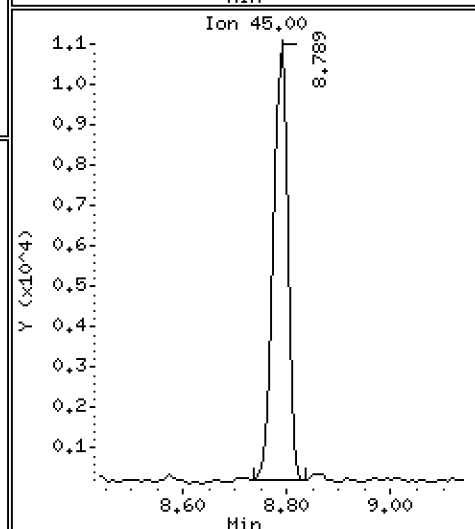
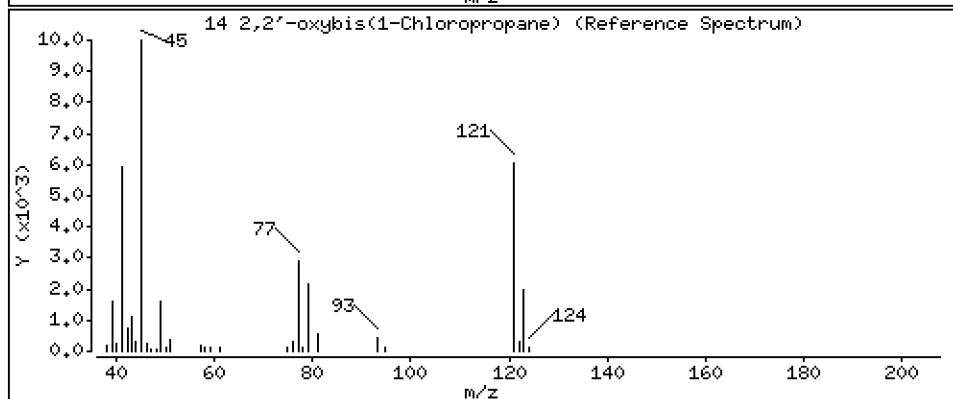
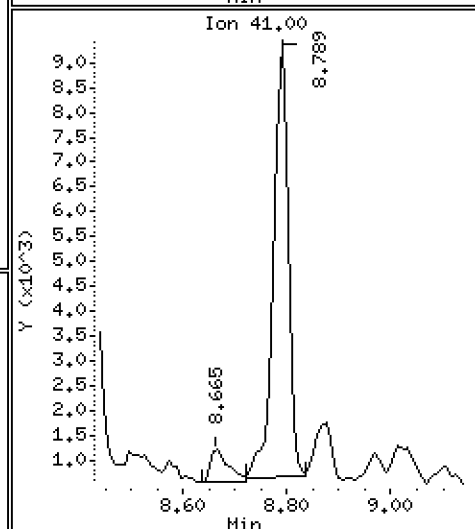
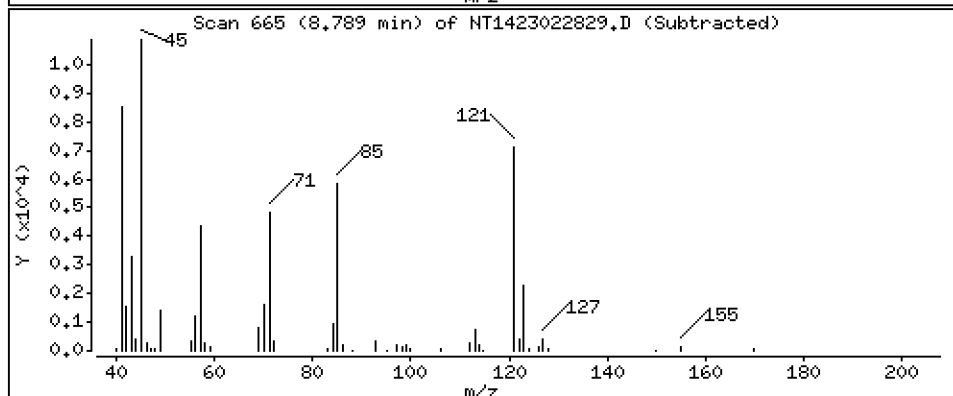
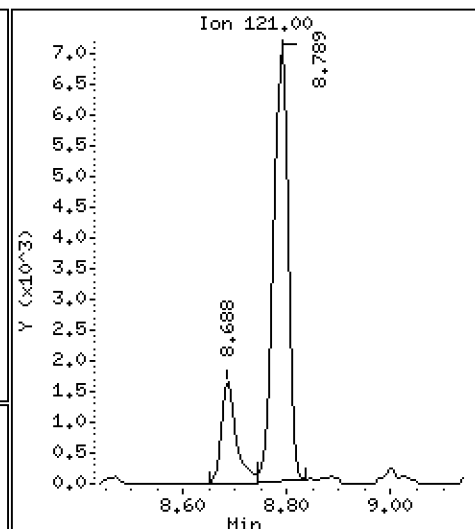
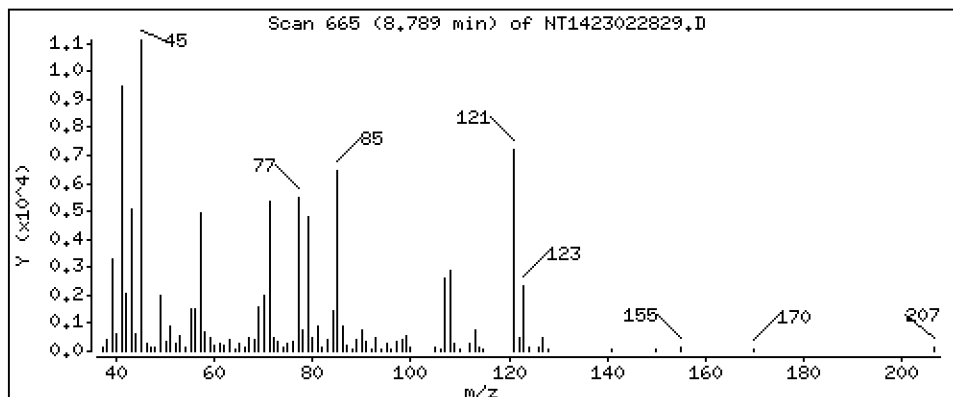
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 1,169 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

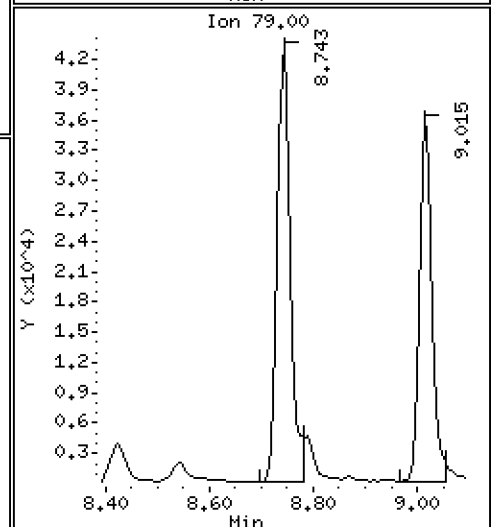
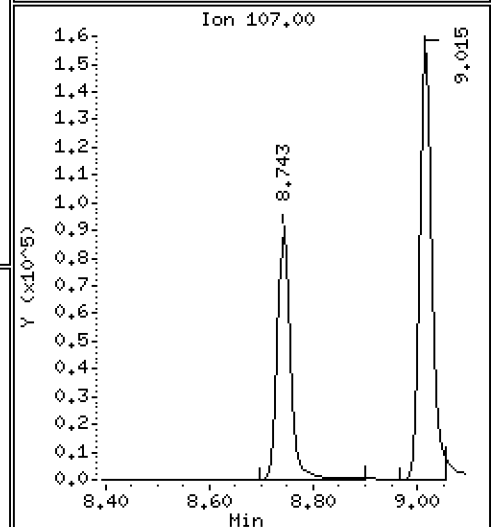
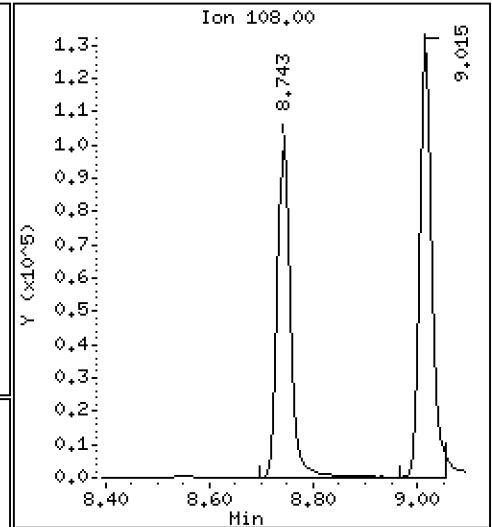
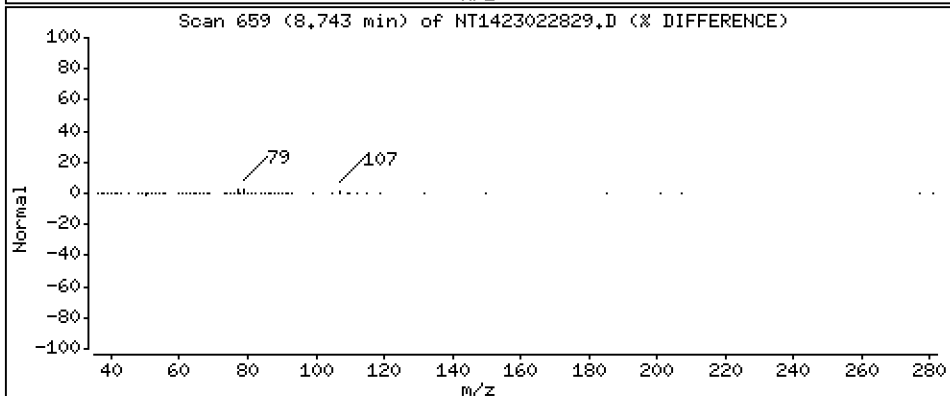
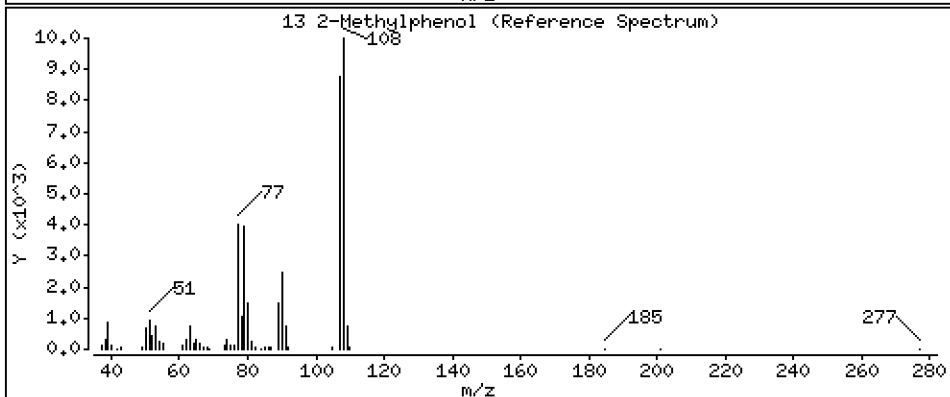
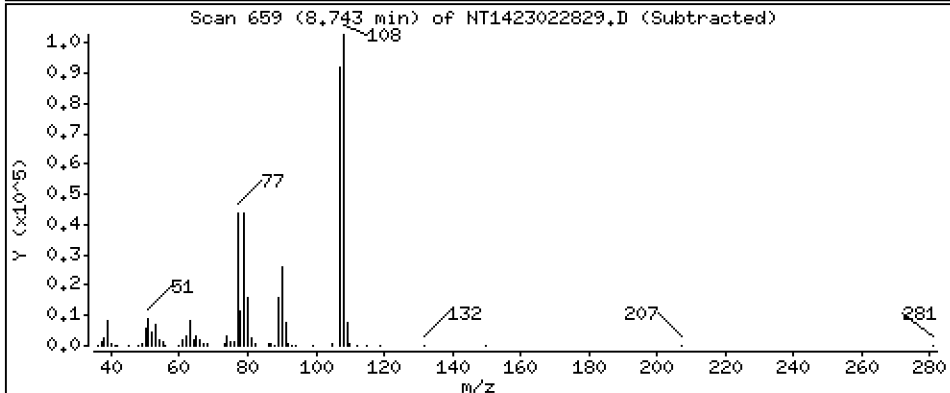
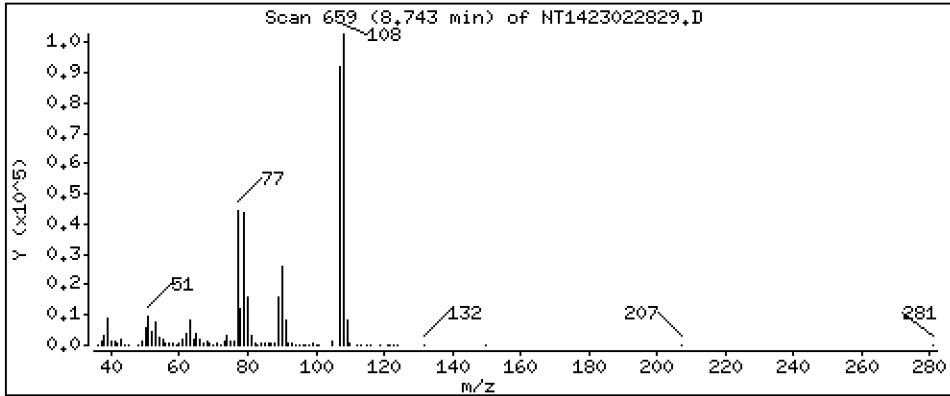
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 5,289 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

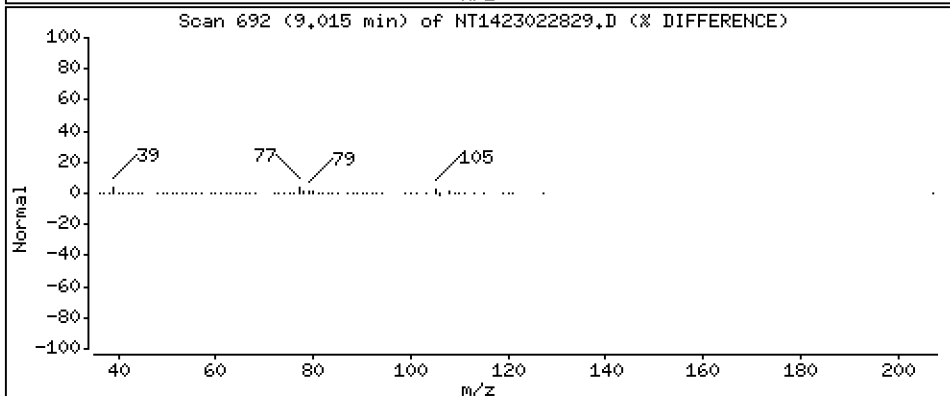
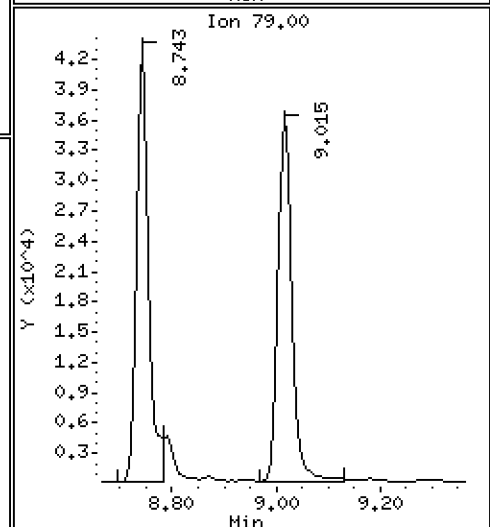
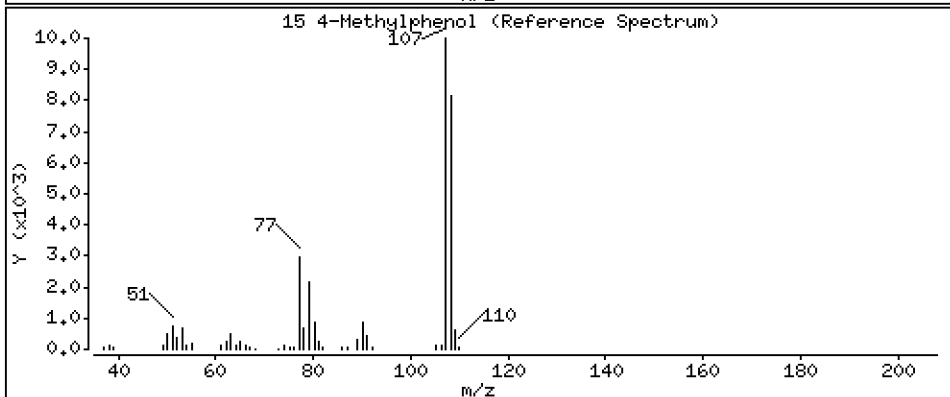
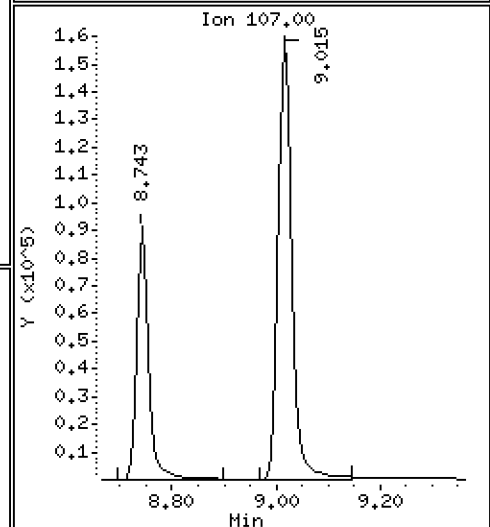
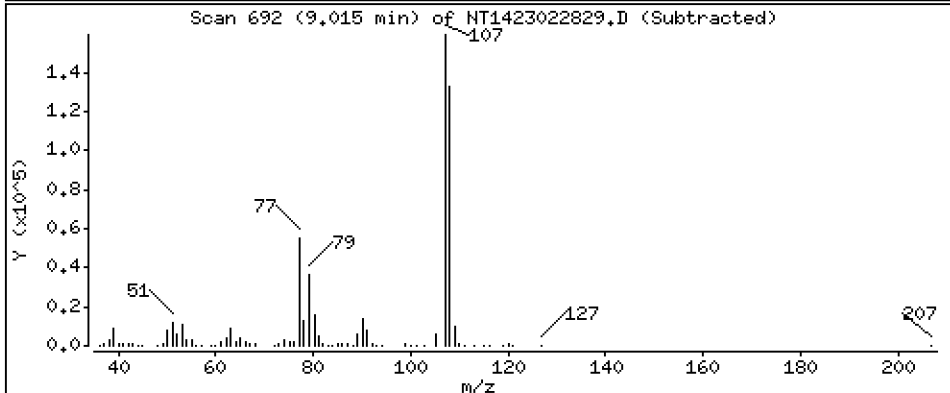
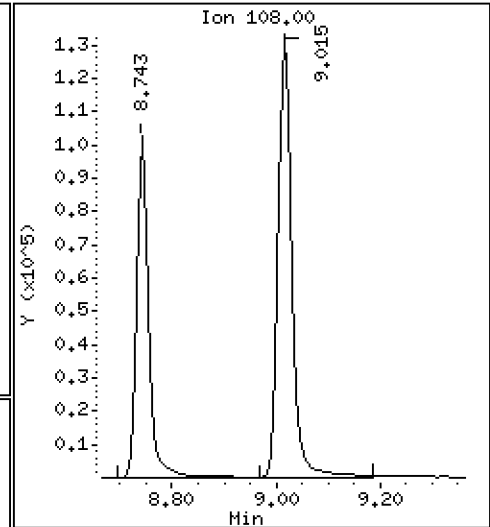
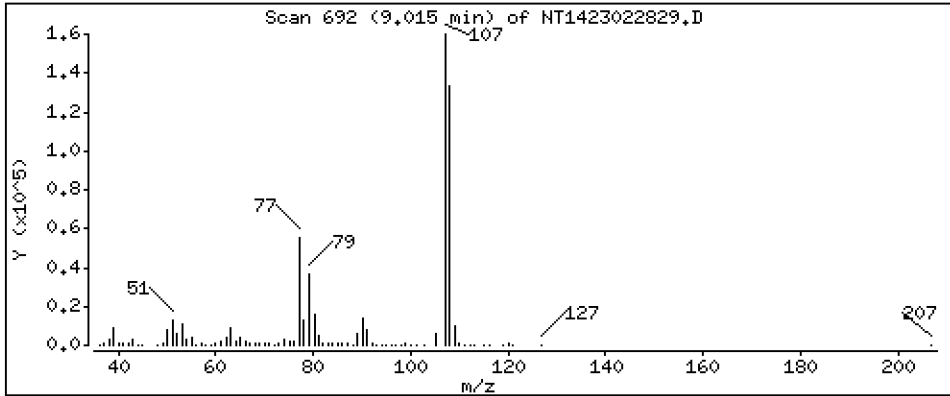
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 5,877 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

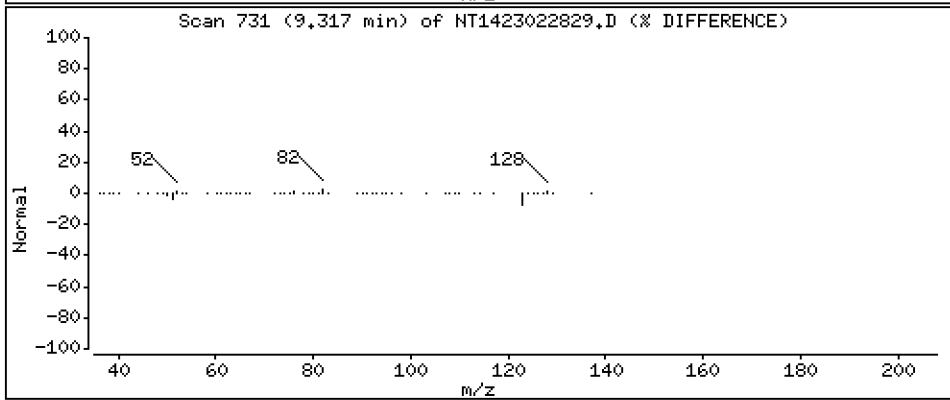
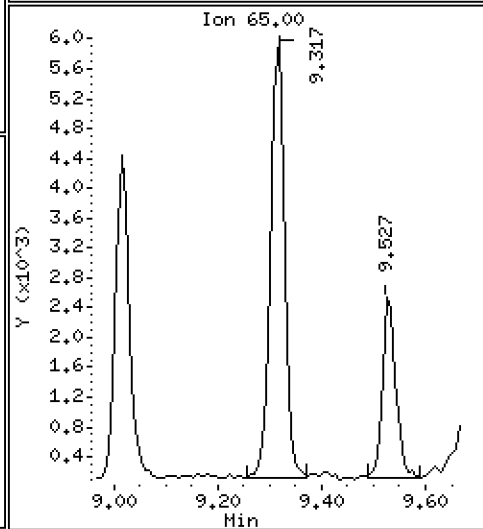
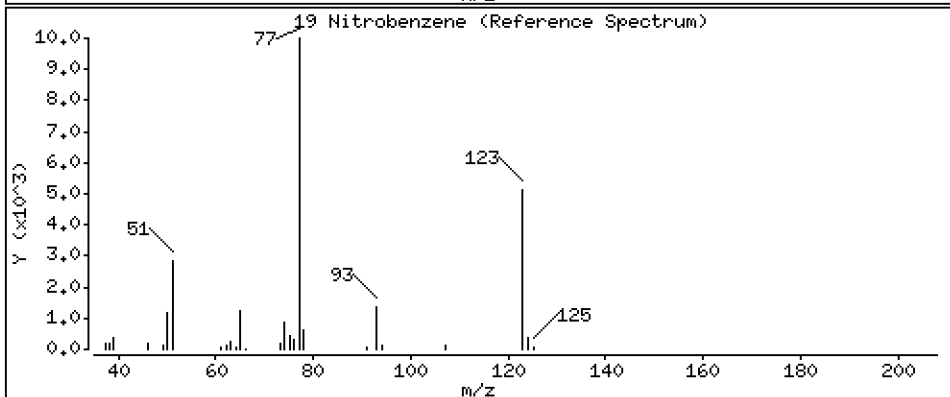
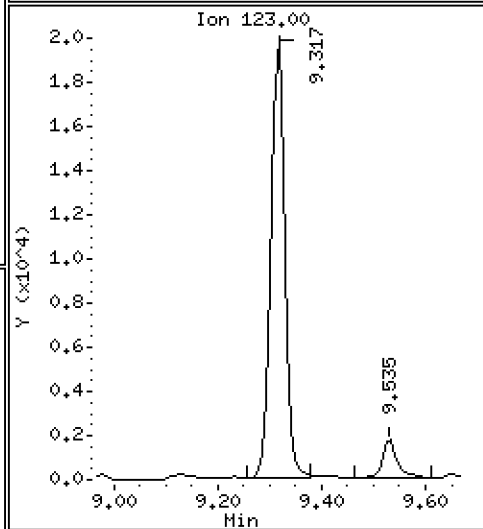
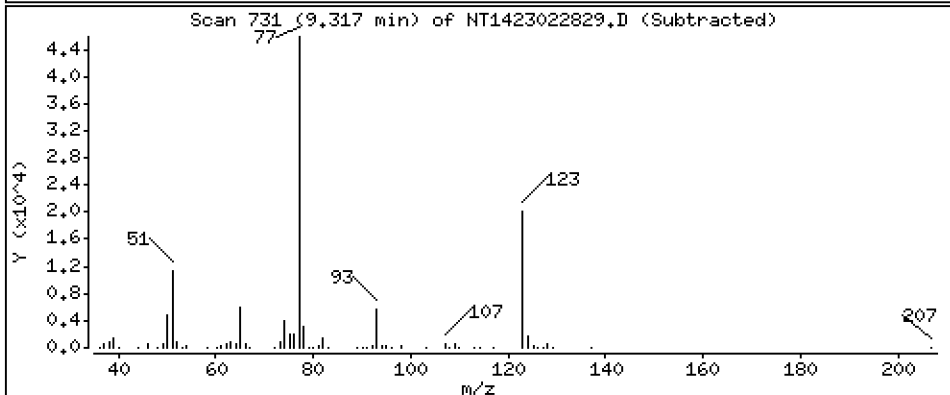
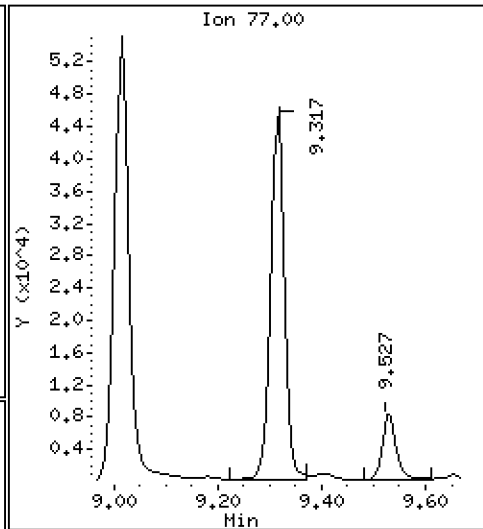
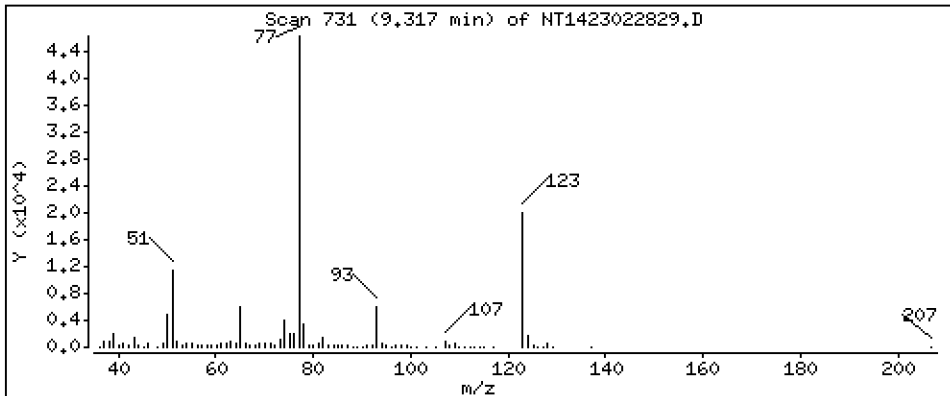
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 1,962 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

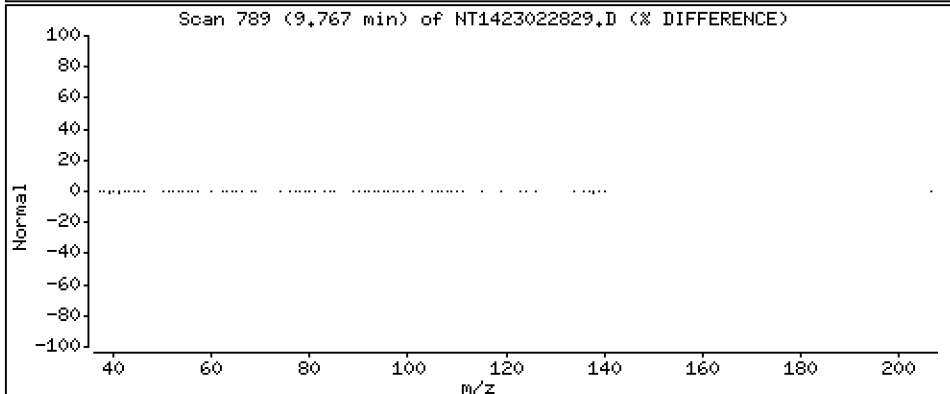
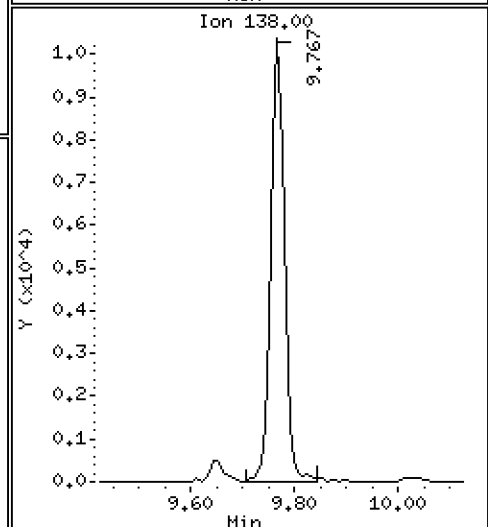
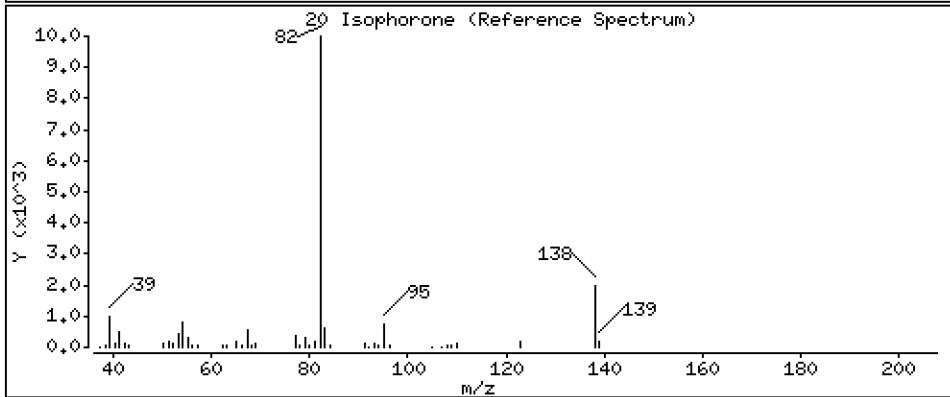
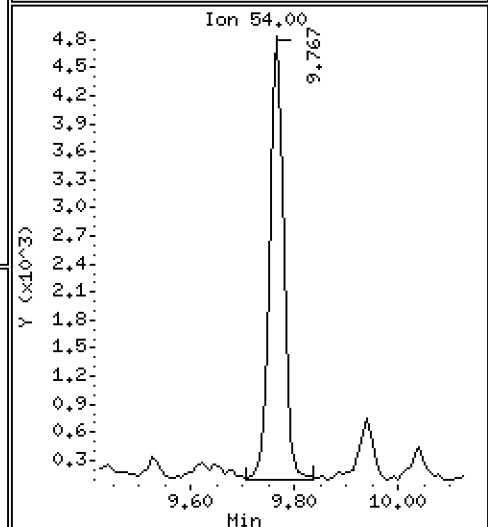
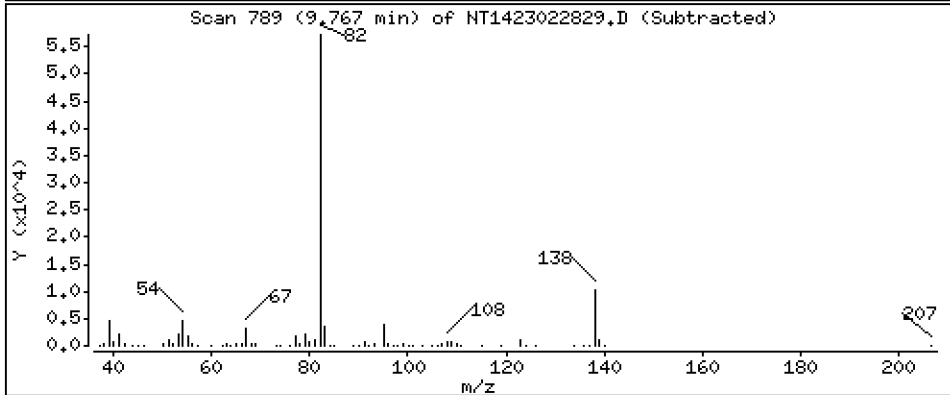
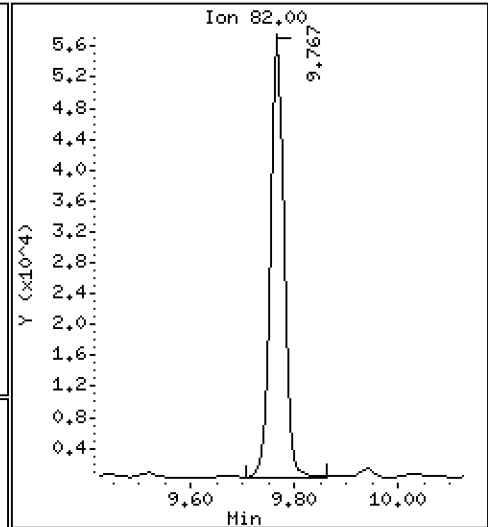
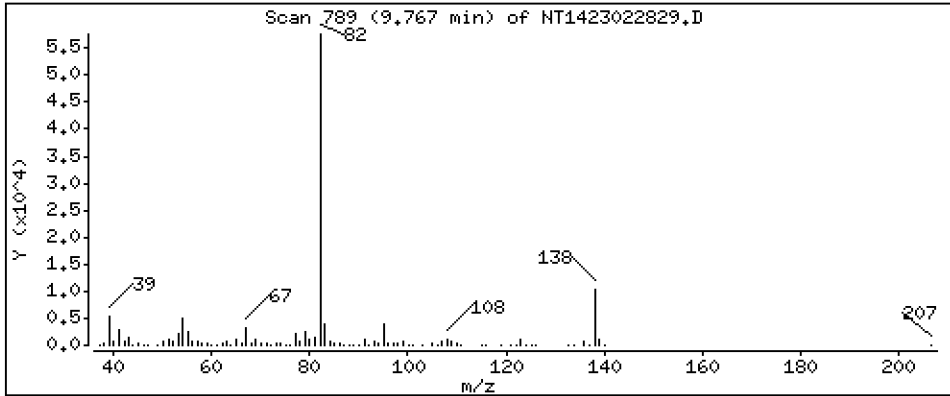
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 1,547 ug/mL





Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

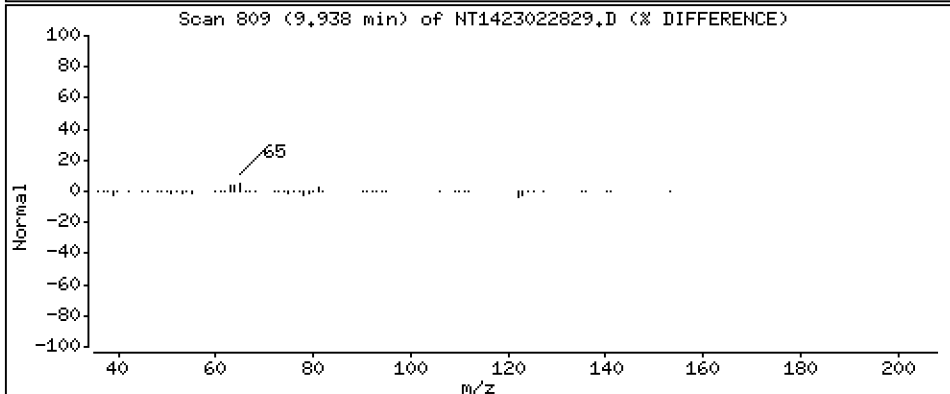
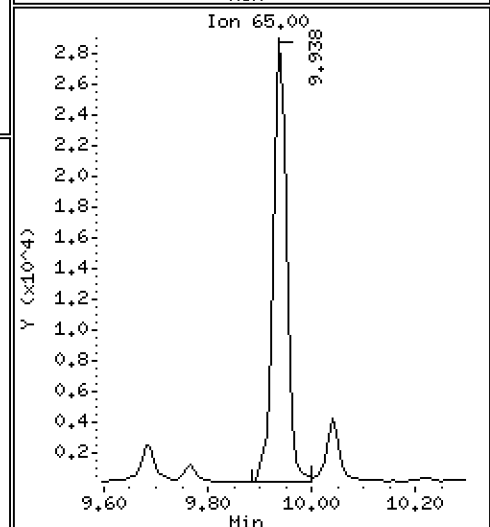
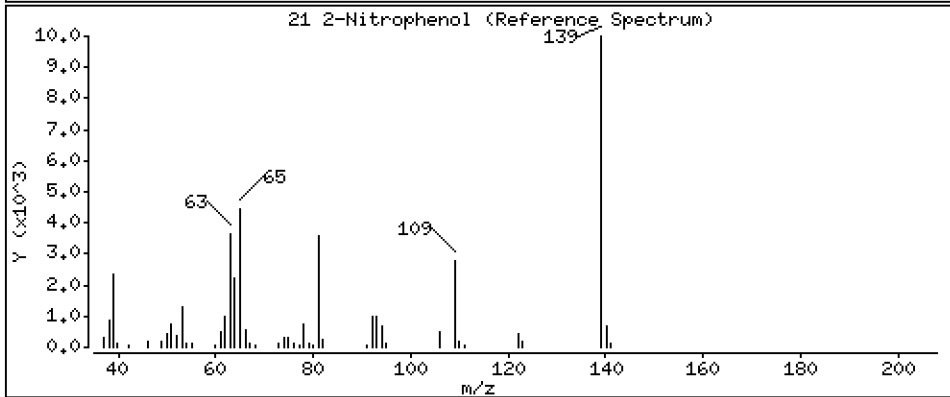
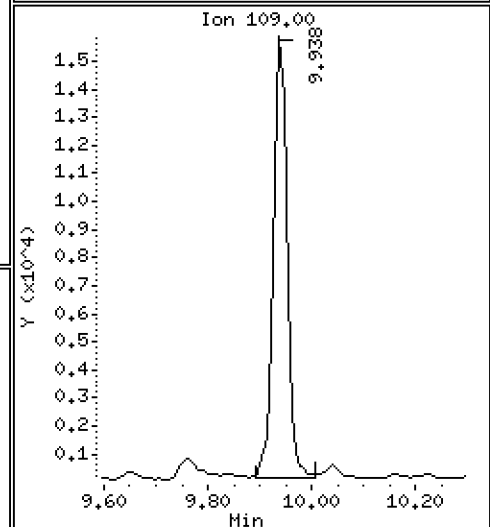
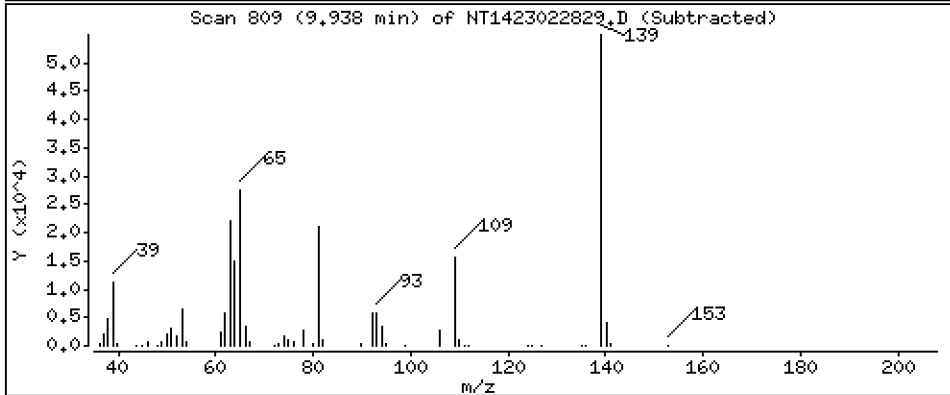
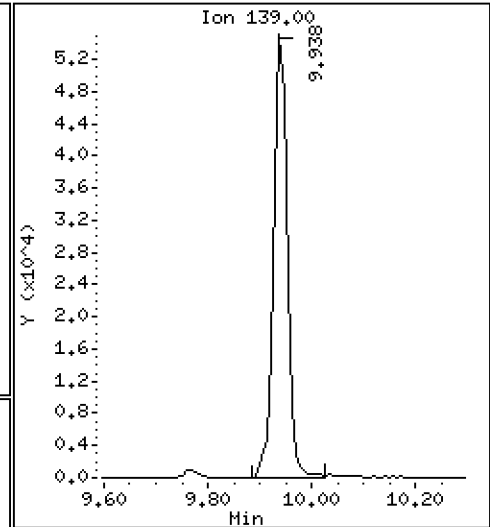
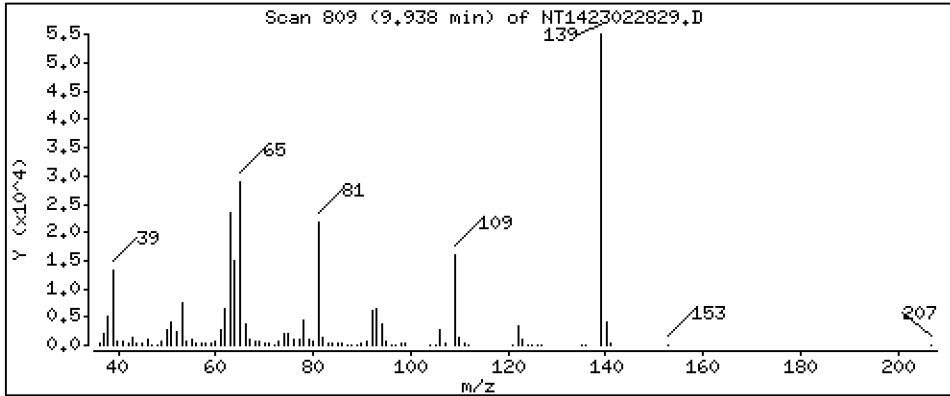
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,944 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

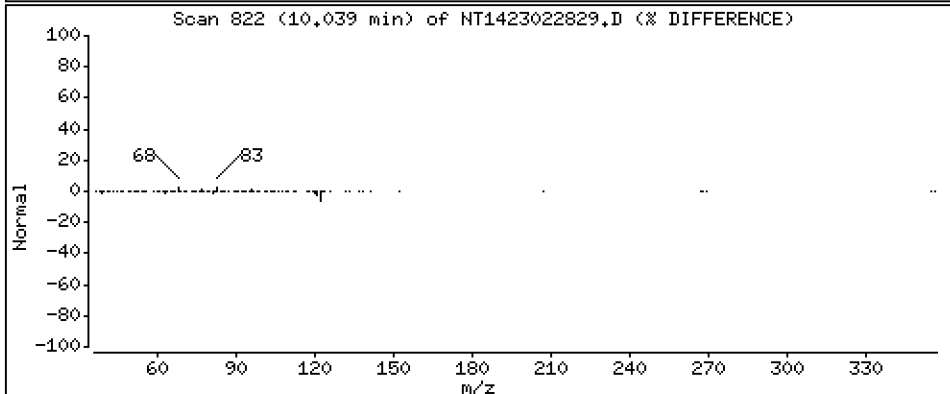
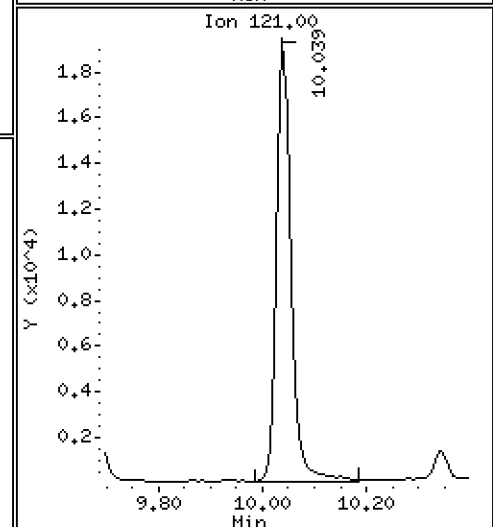
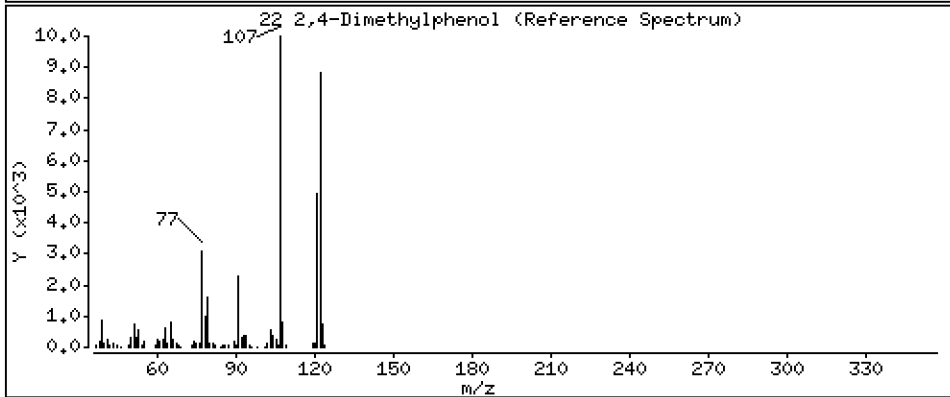
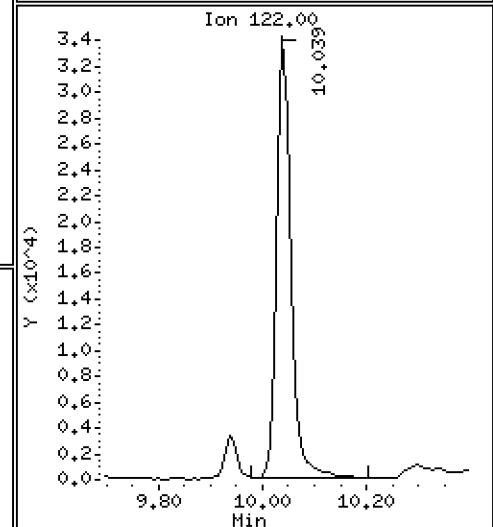
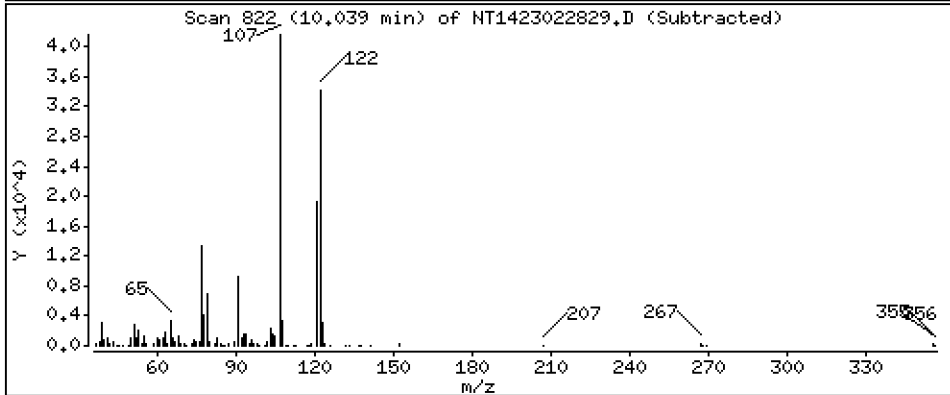
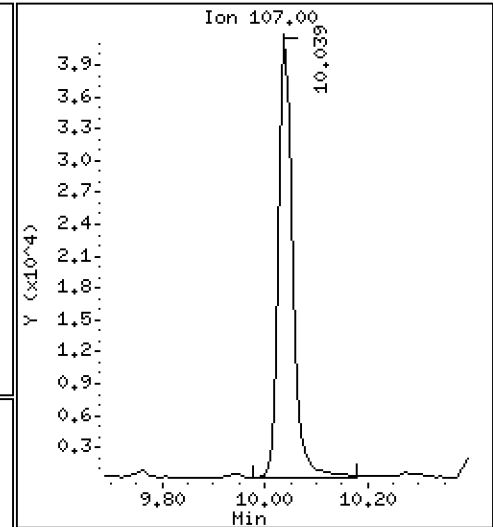
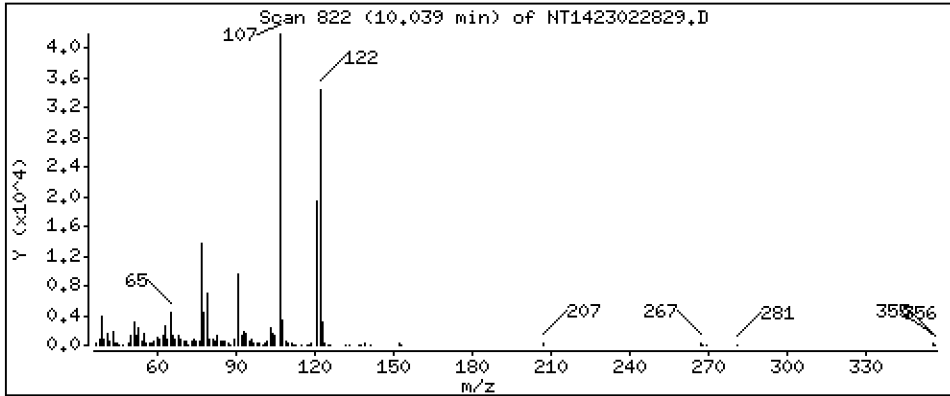
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 2,034 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

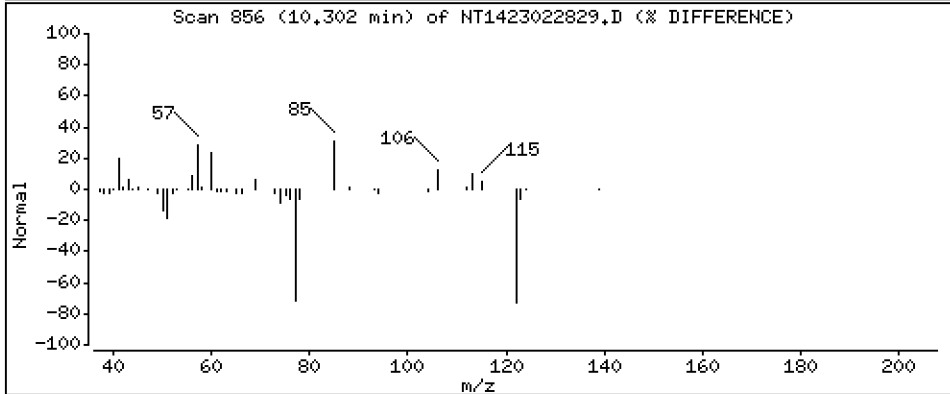
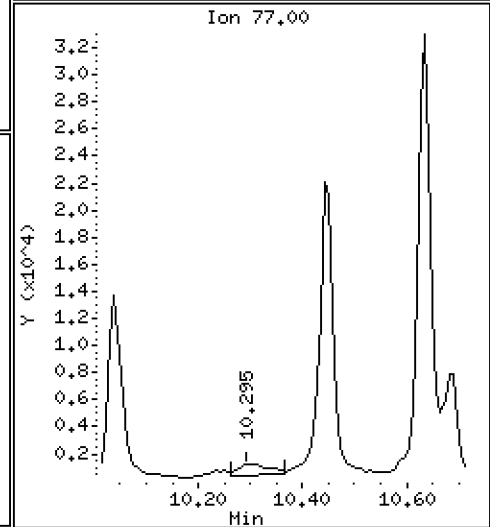
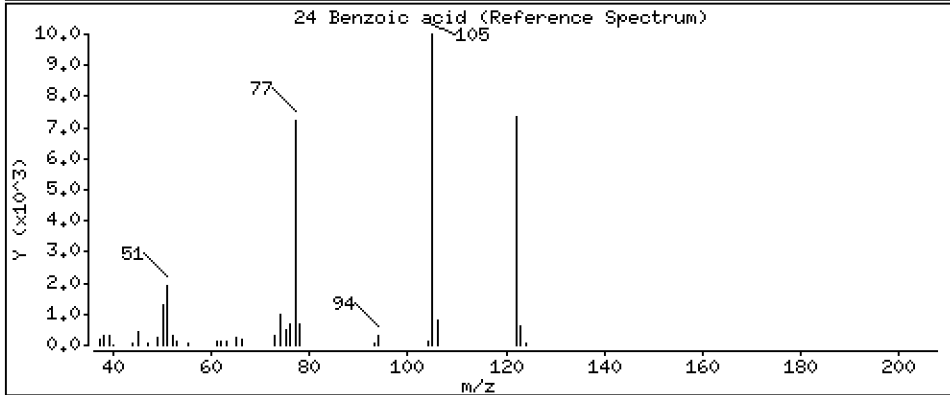
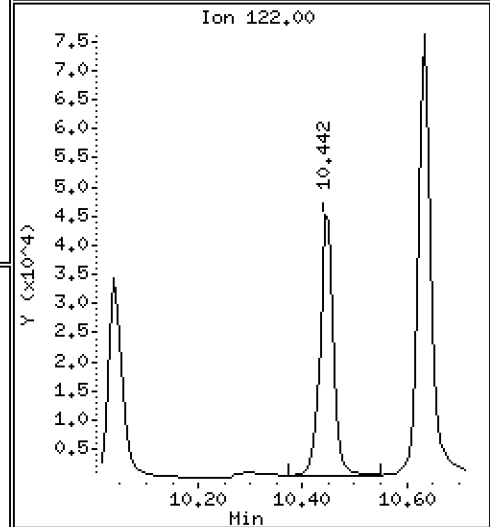
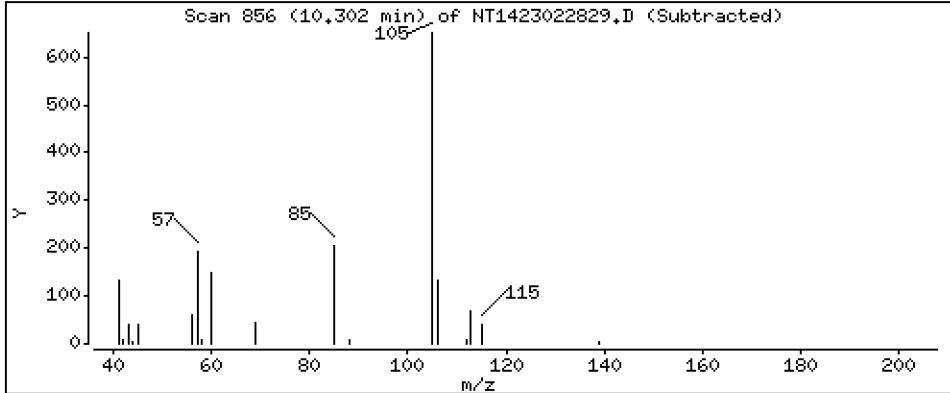
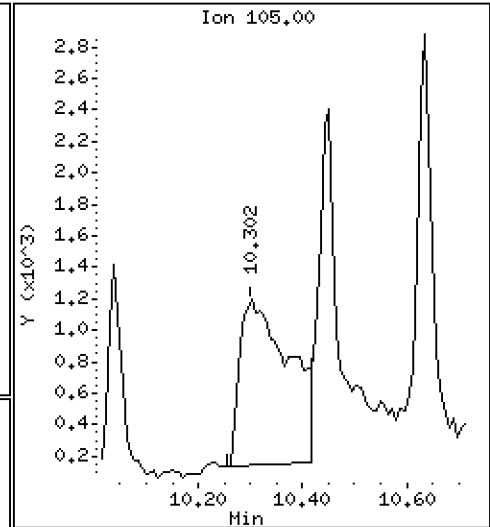
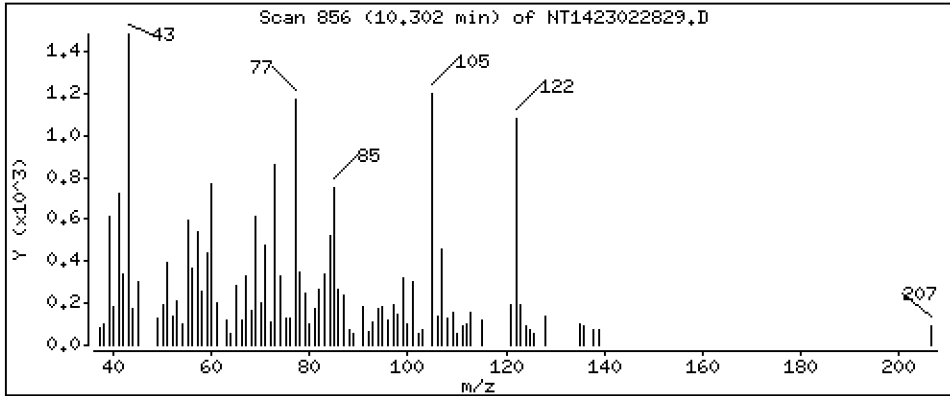
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.4856 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

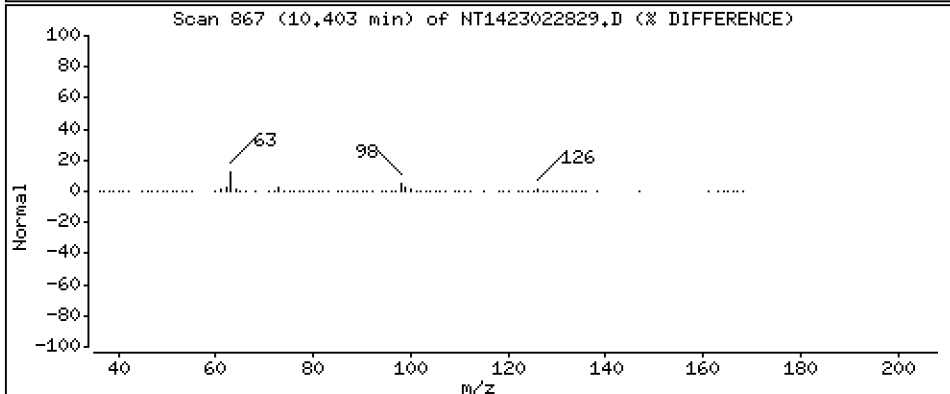
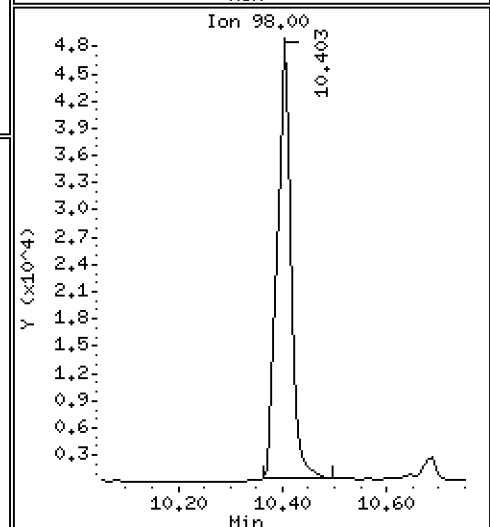
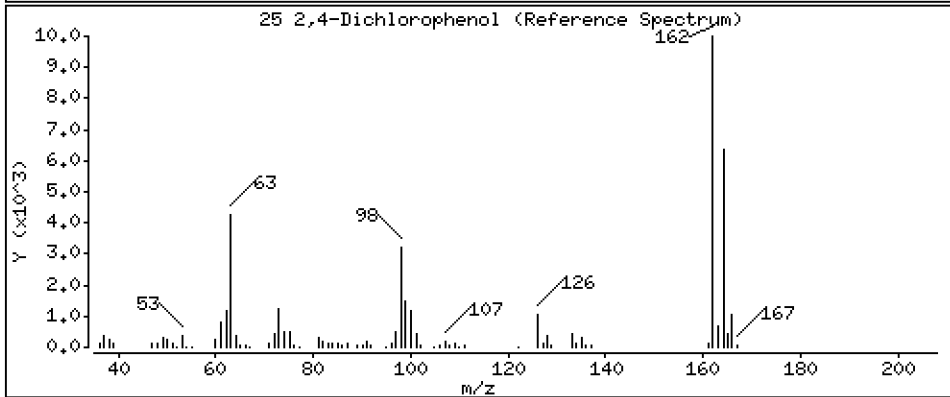
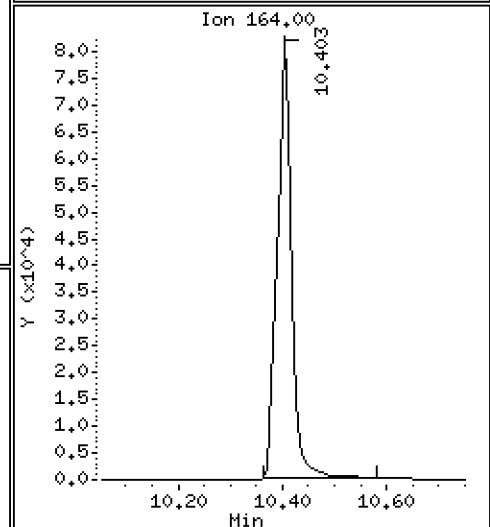
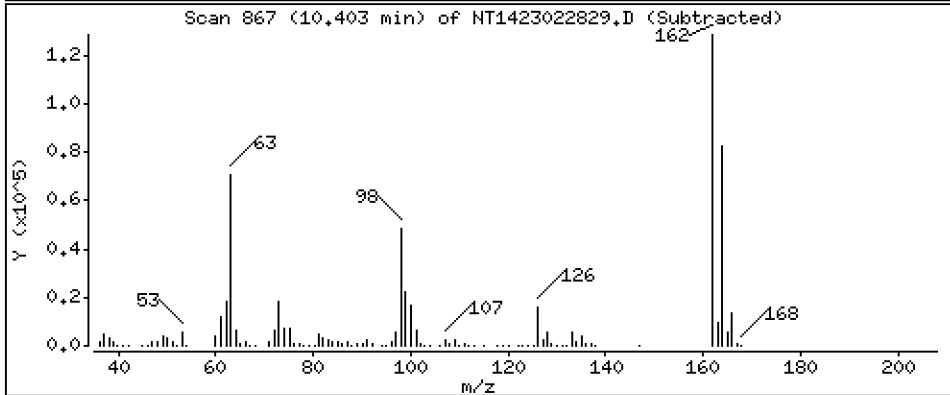
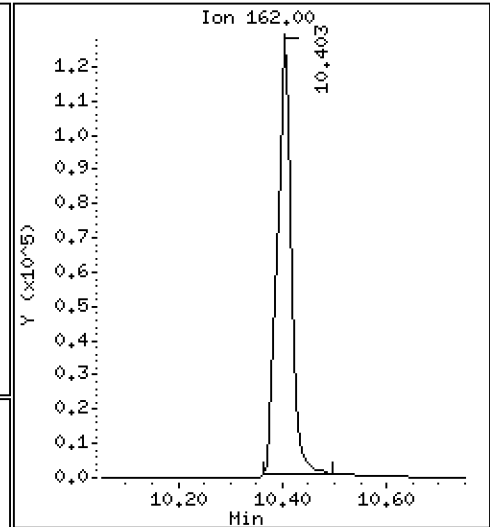
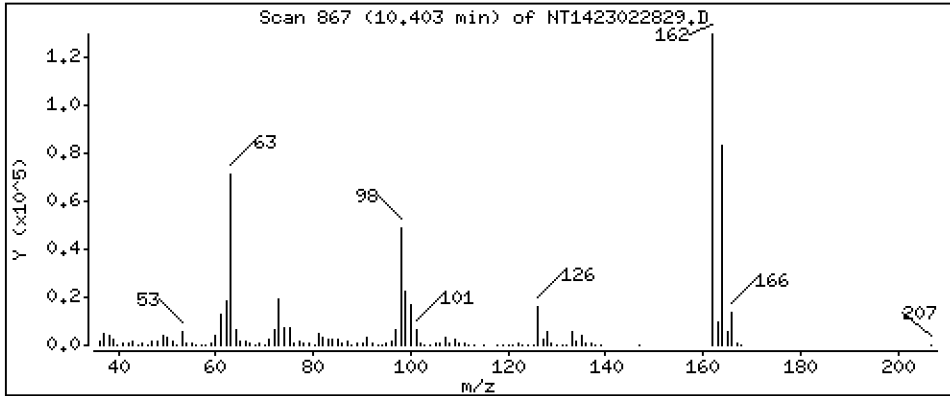
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 6,143 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

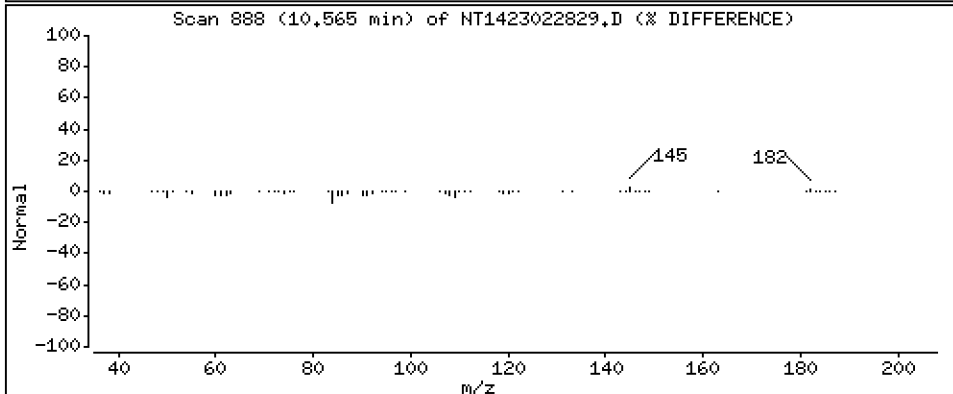
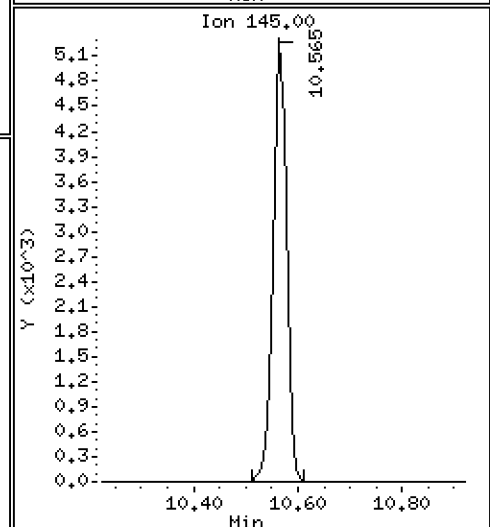
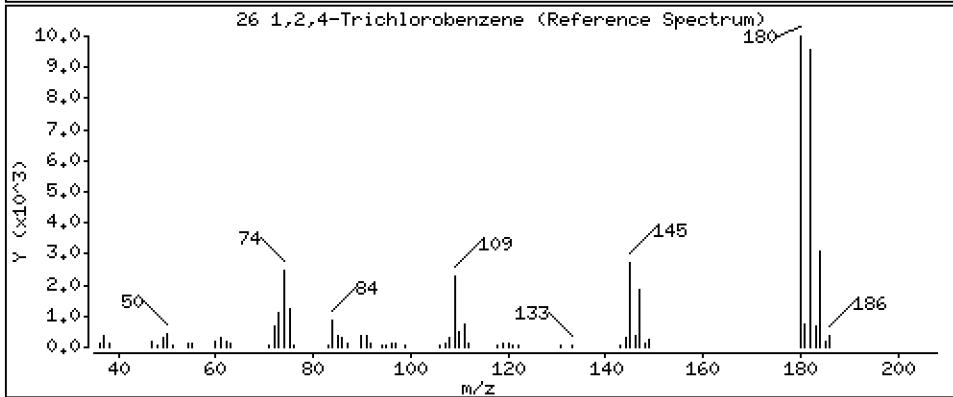
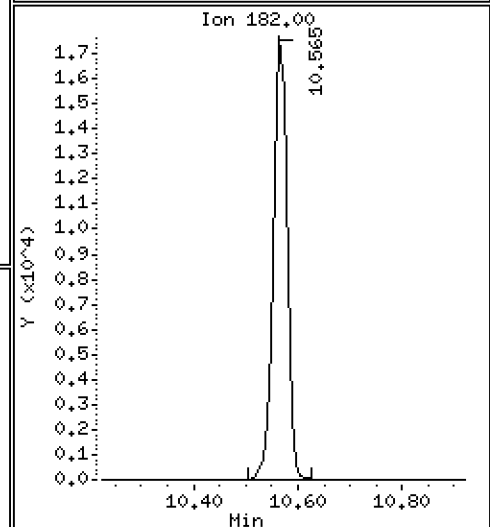
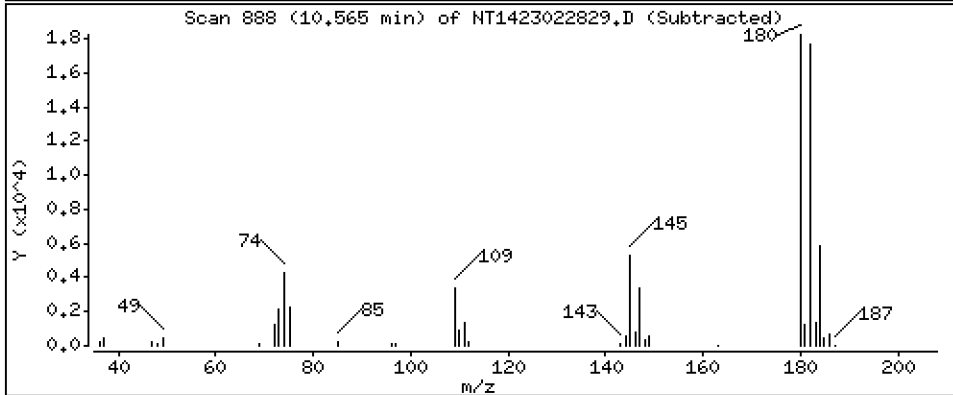
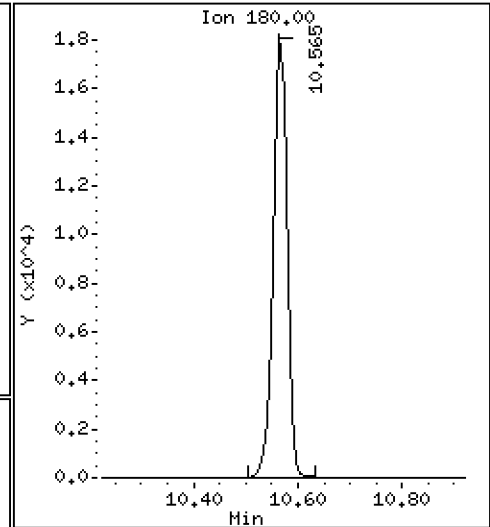
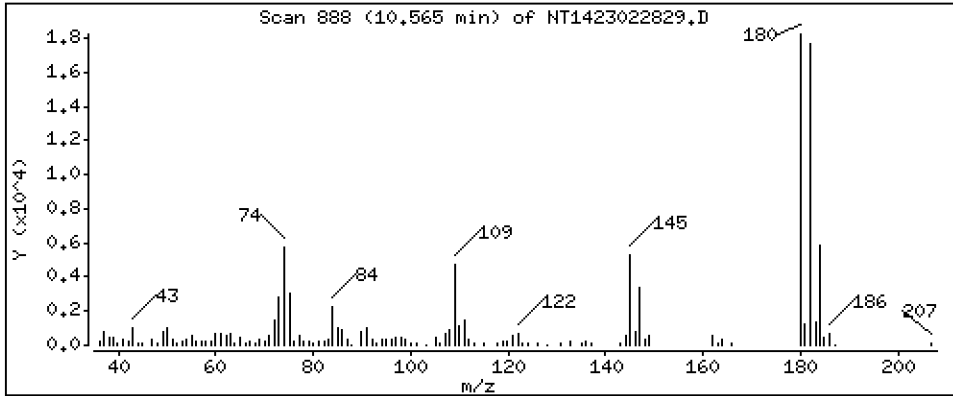
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,7577 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

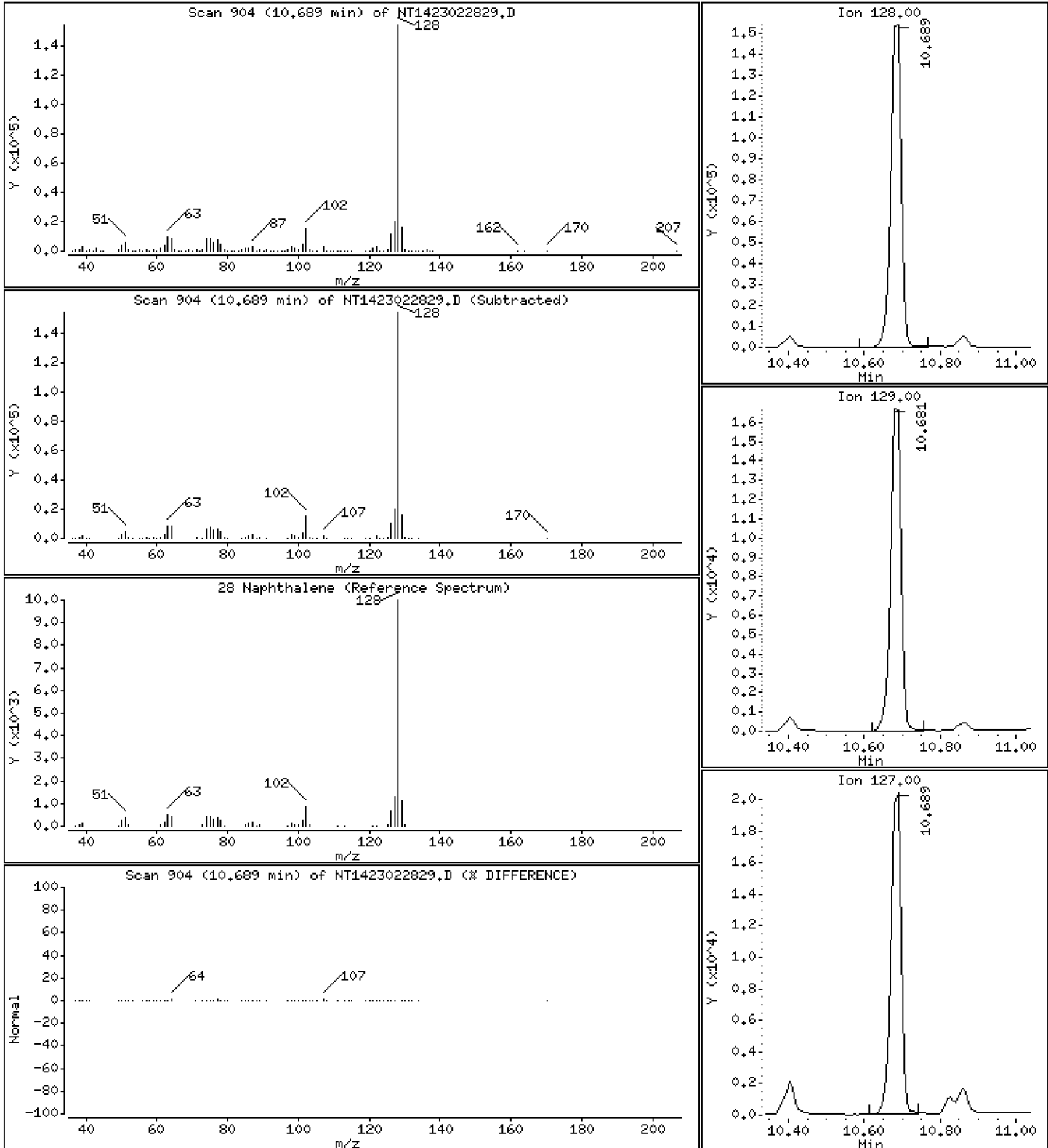
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 2,415 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

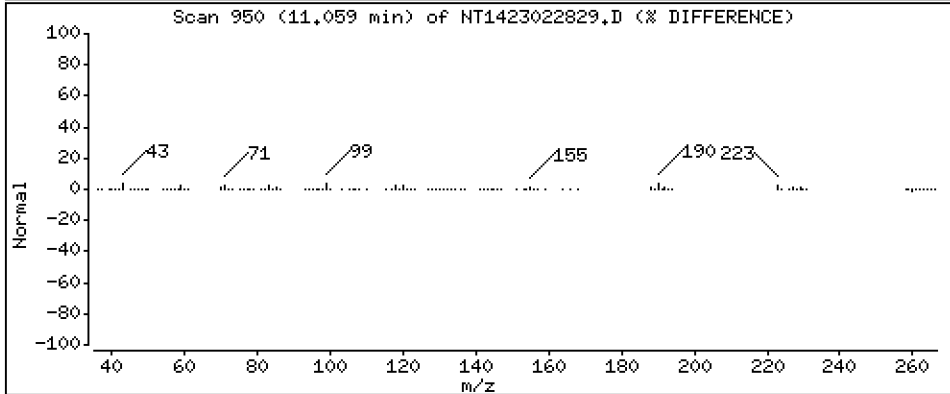
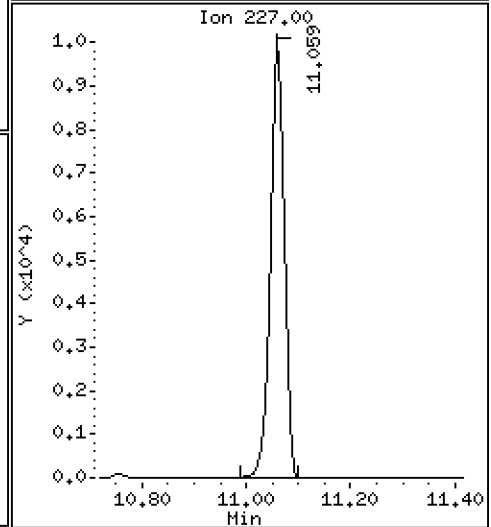
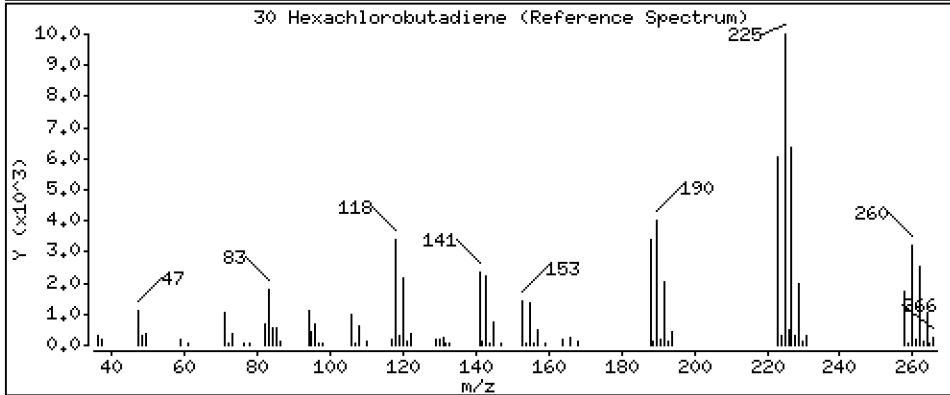
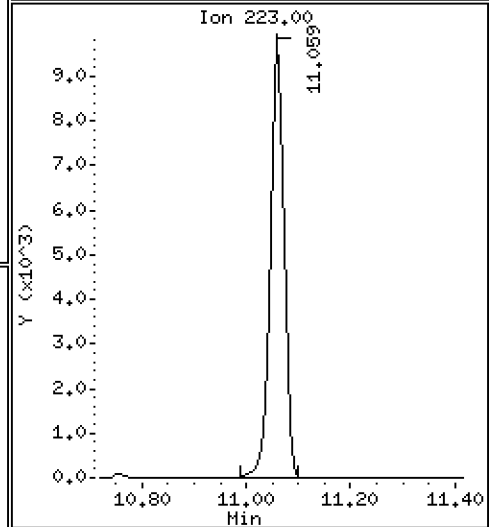
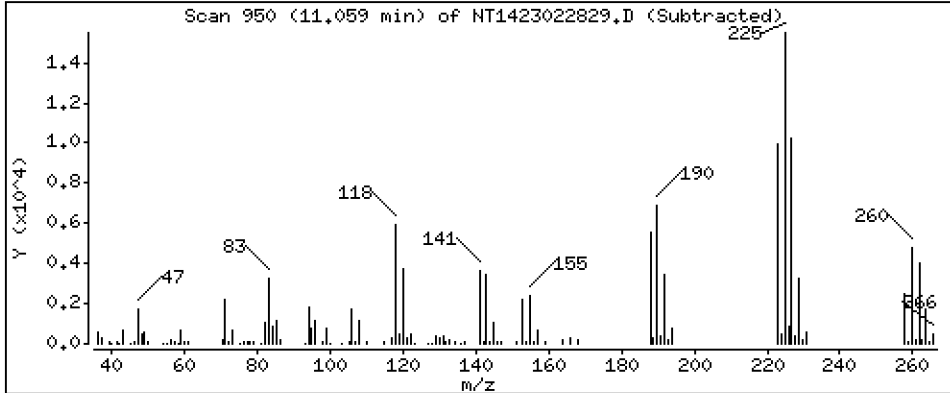
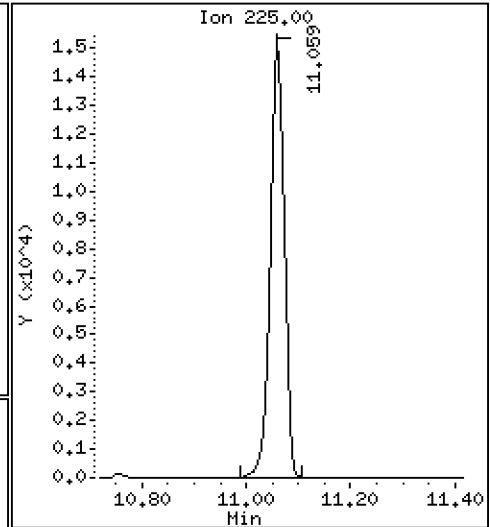
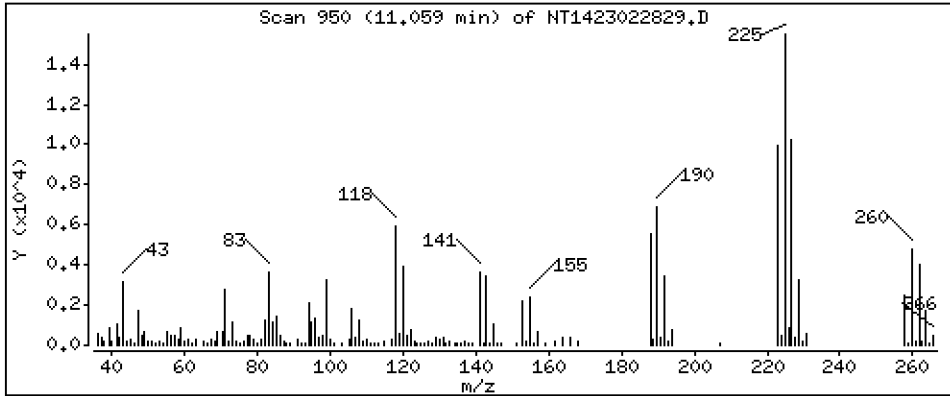
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 1,249 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

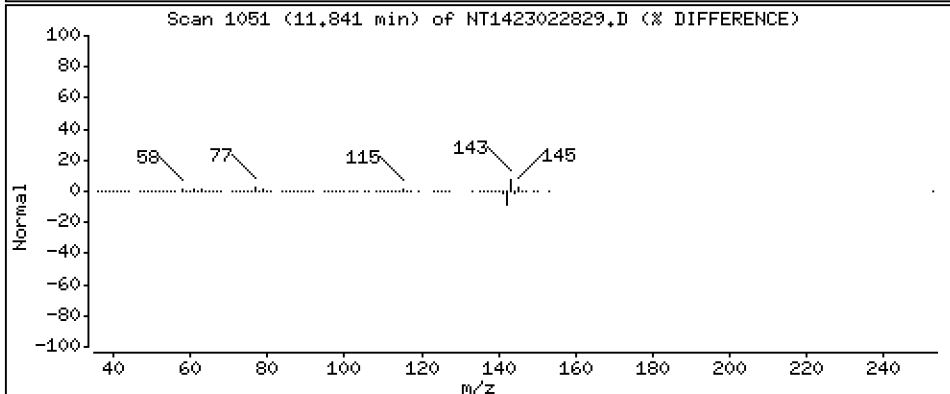
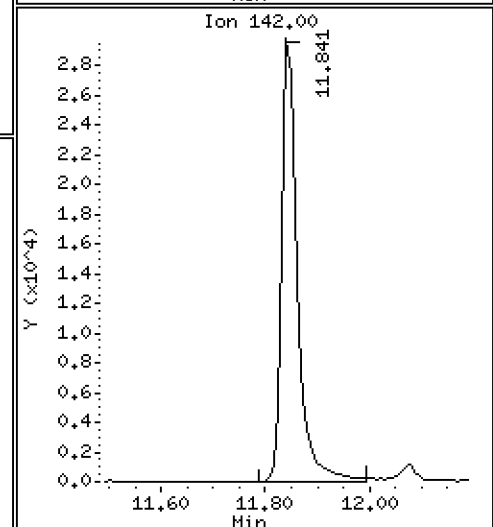
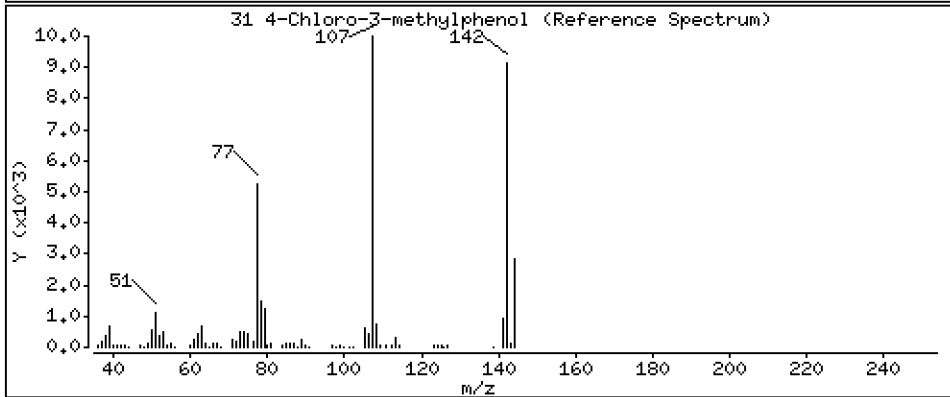
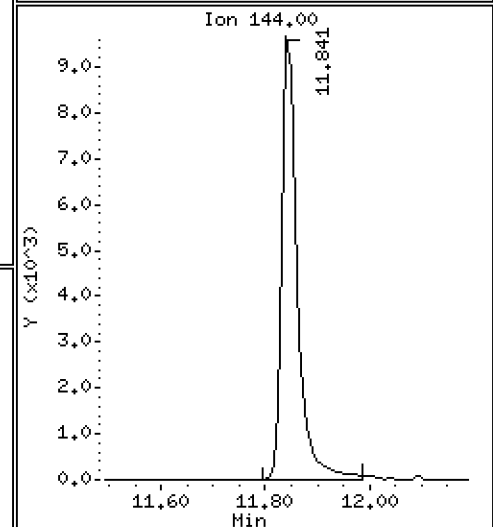
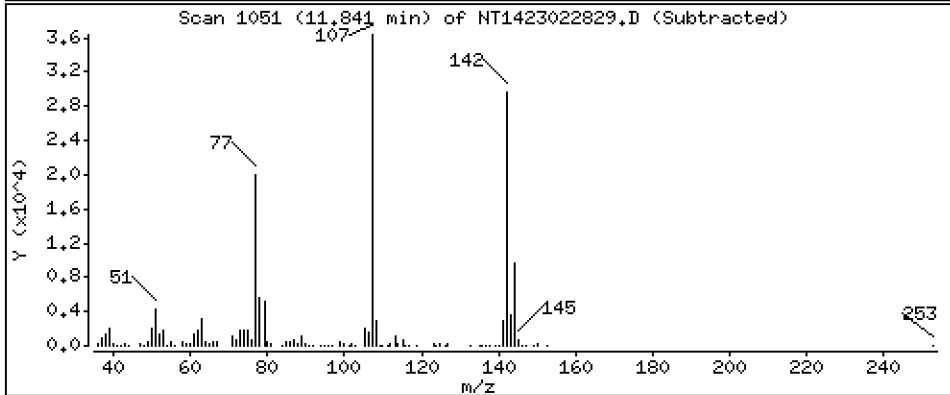
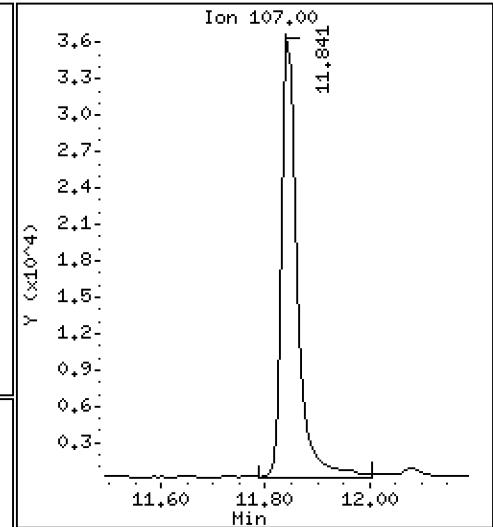
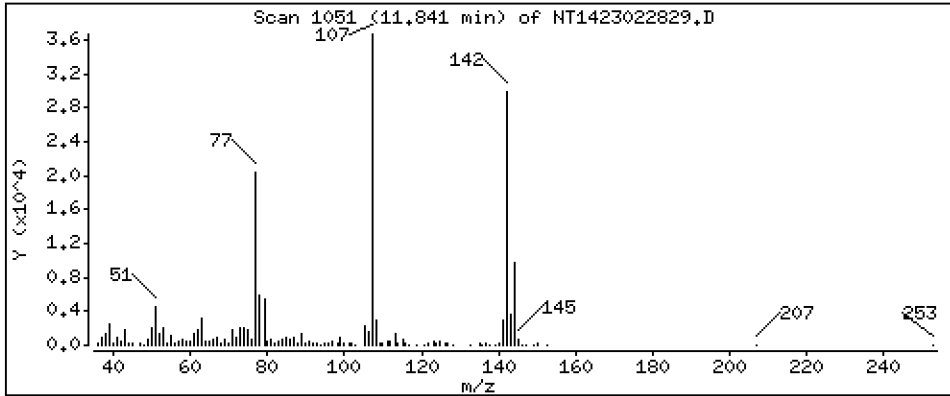
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 2,185 ug/mL





Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

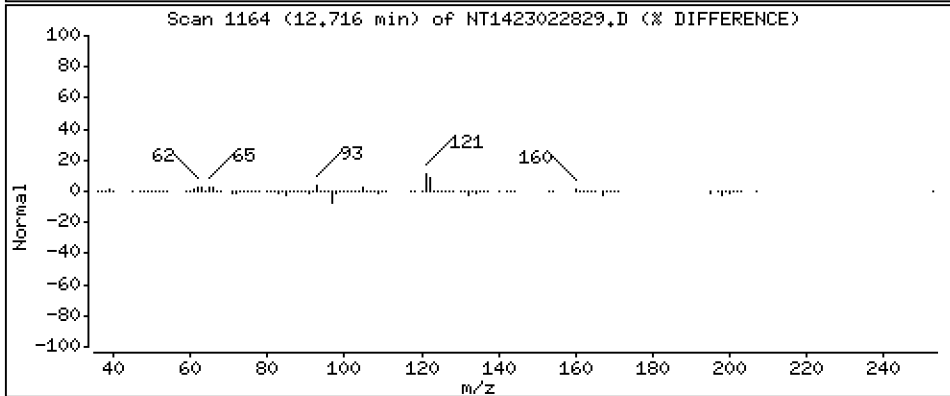
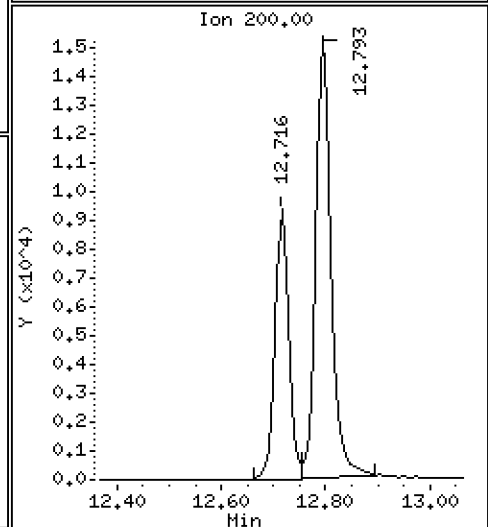
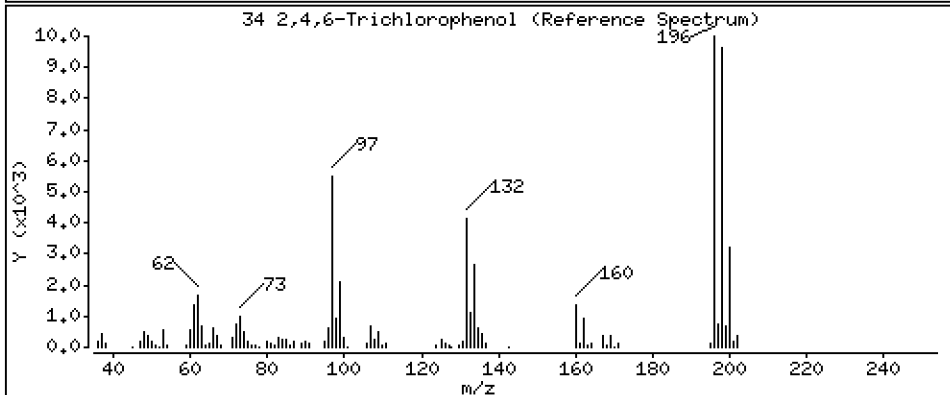
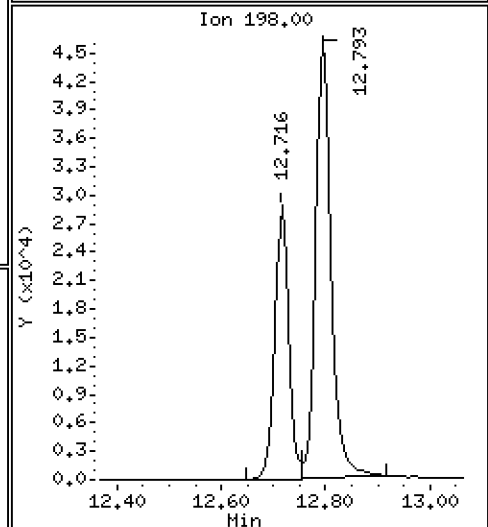
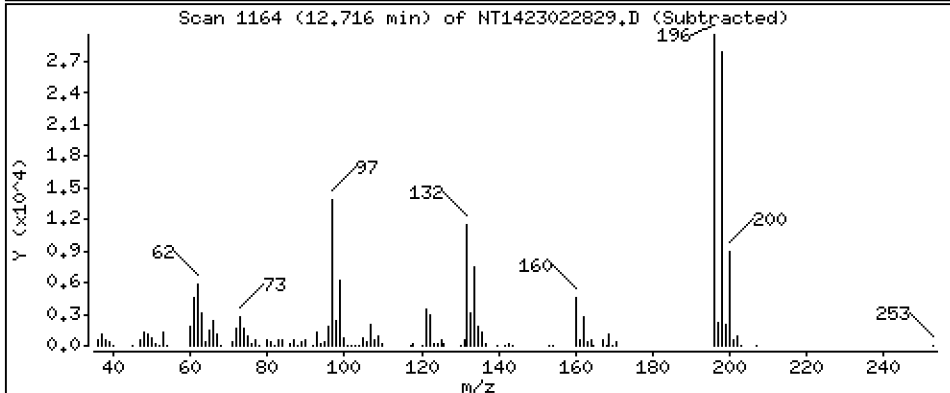
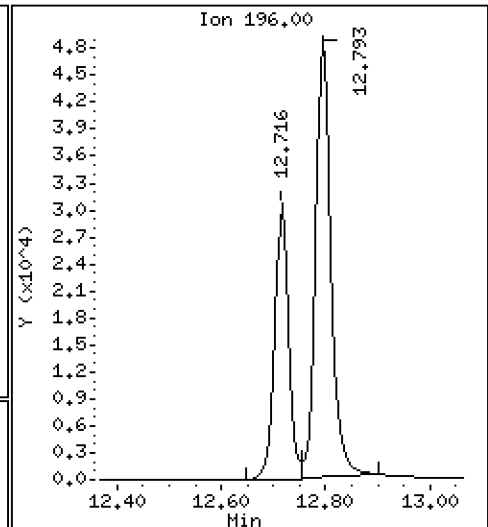
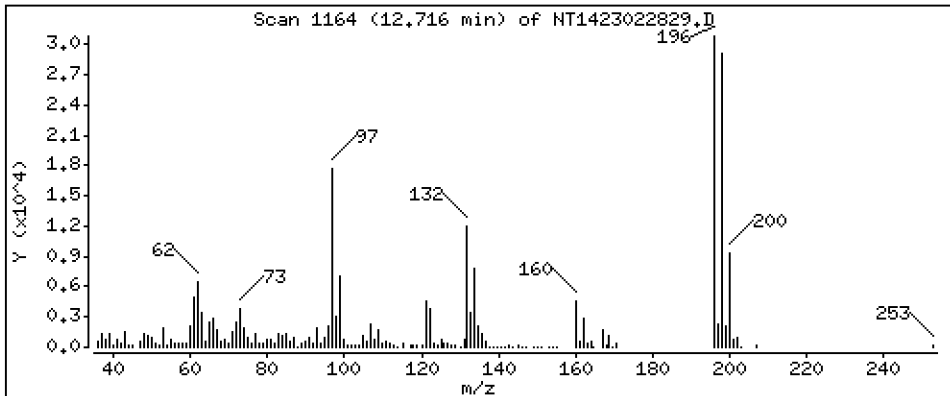
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 2,268 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

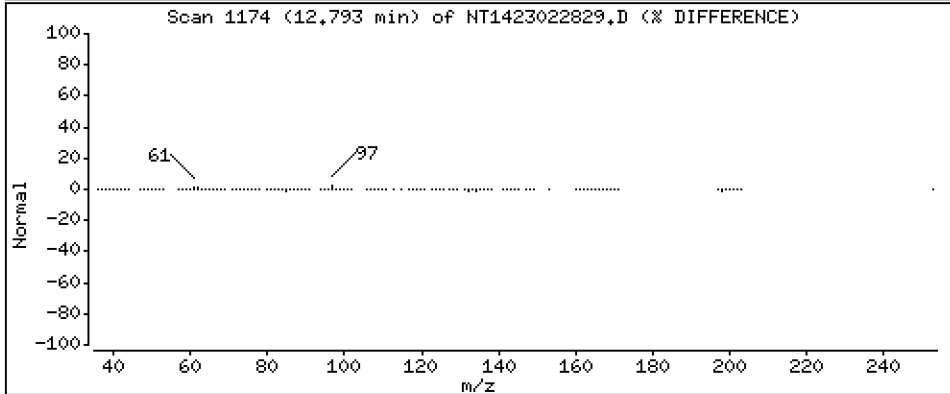
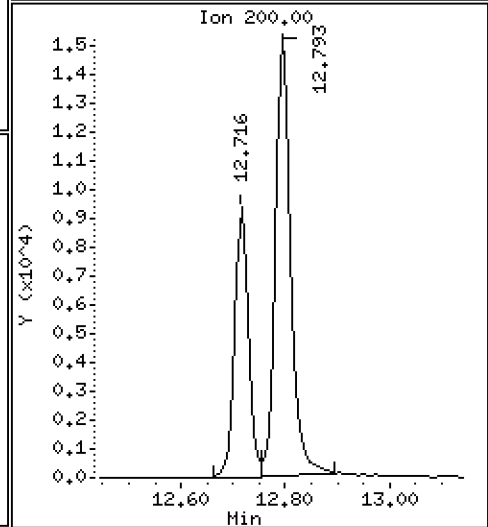
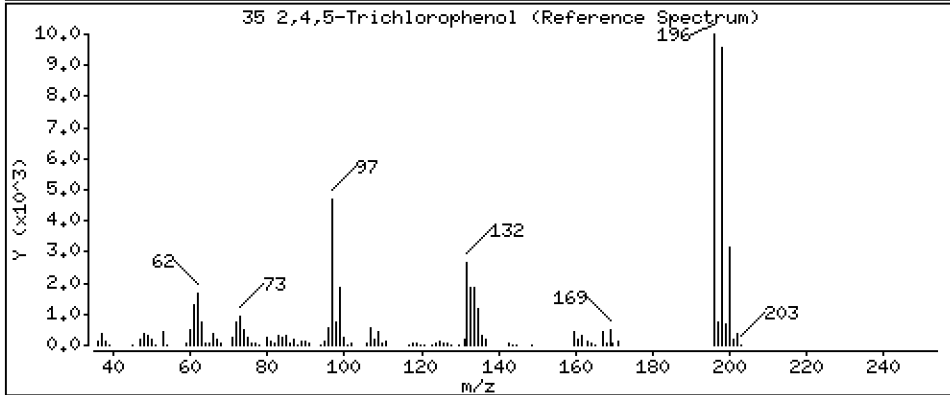
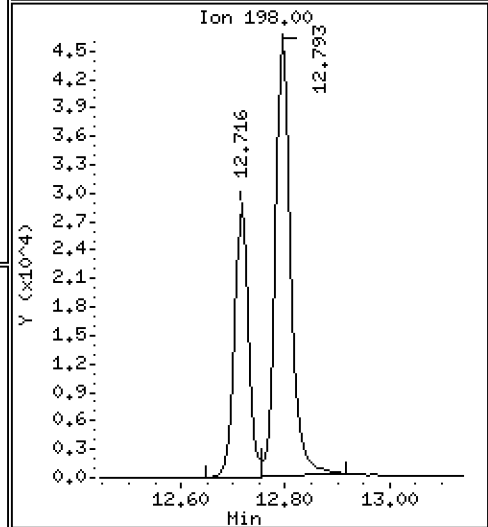
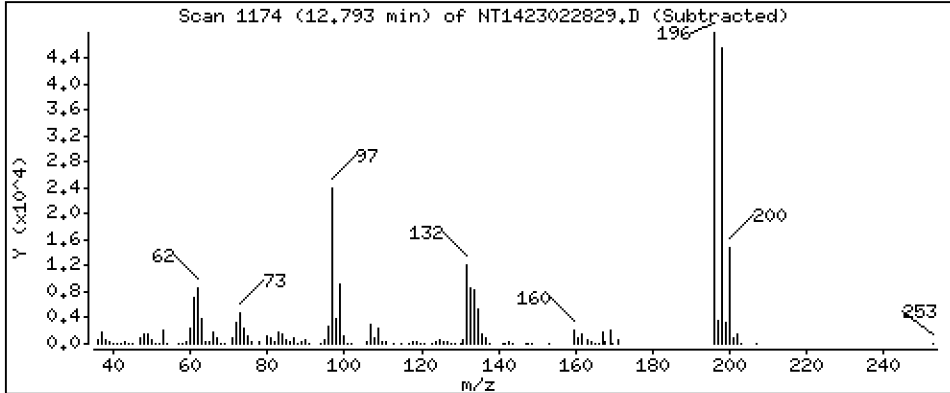
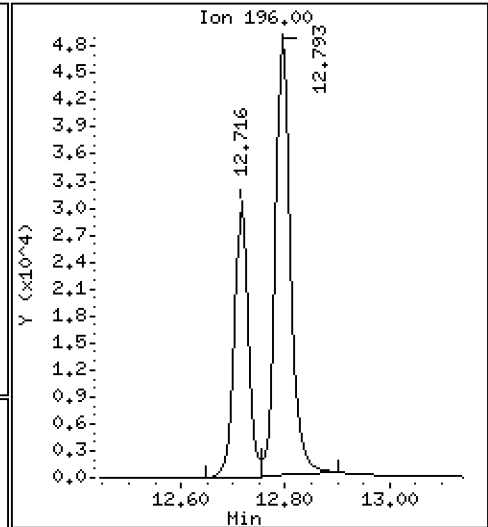
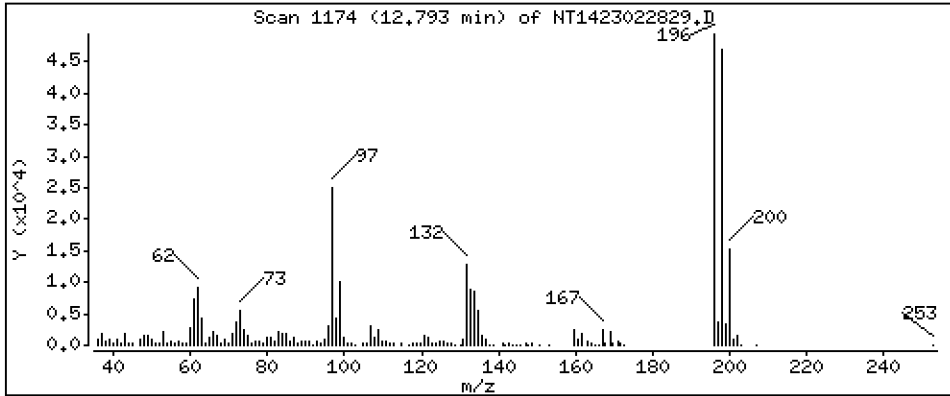
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 3,657 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

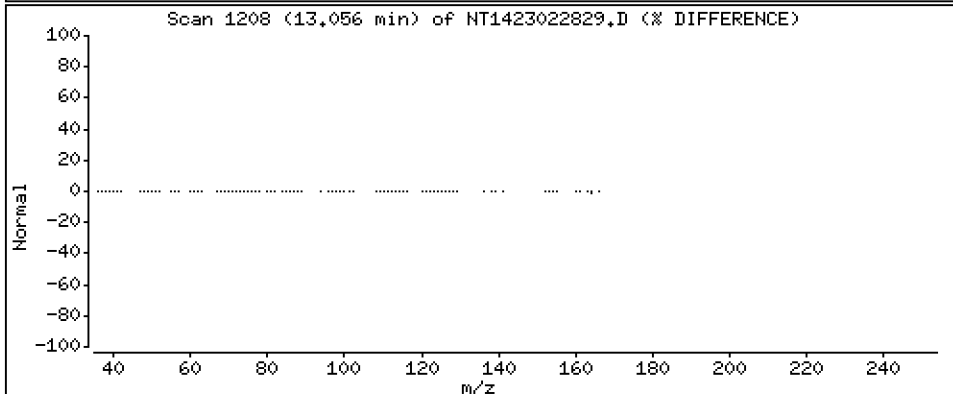
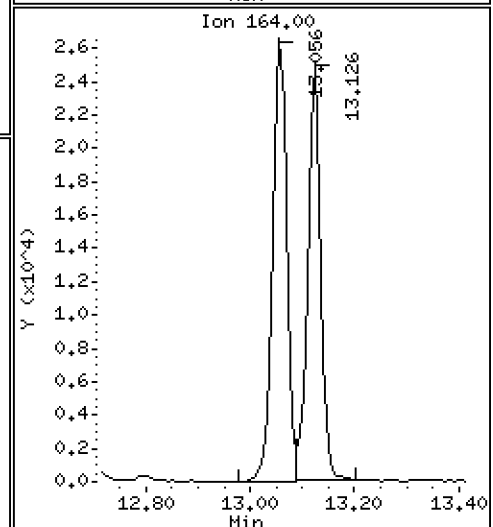
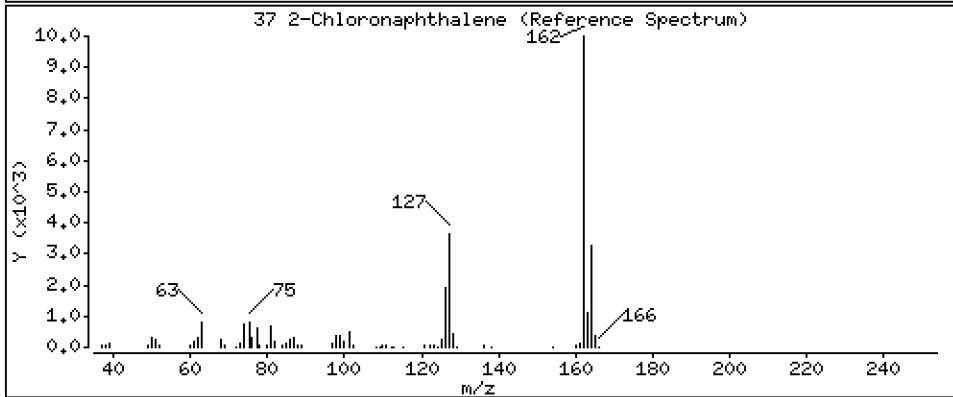
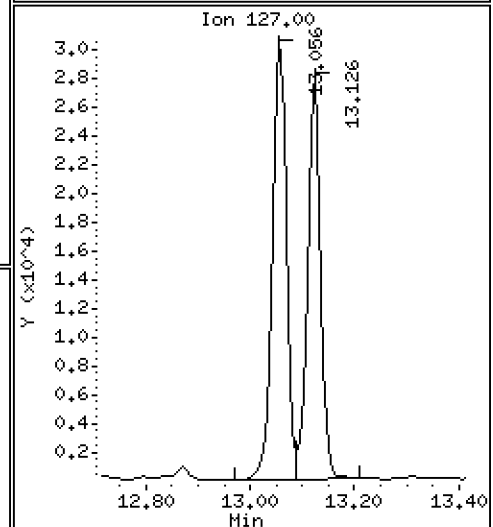
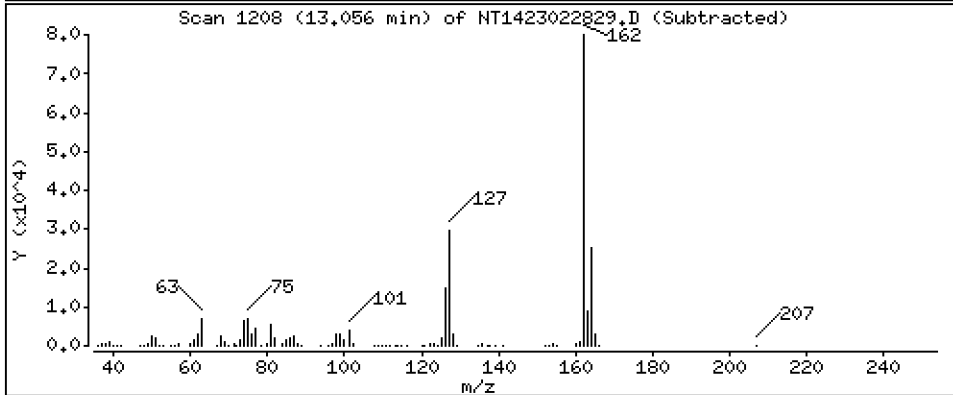
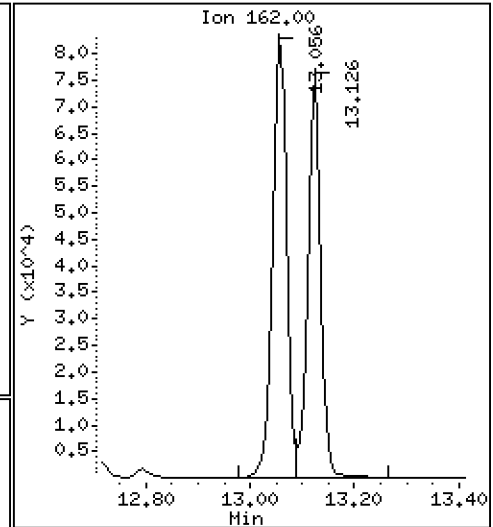
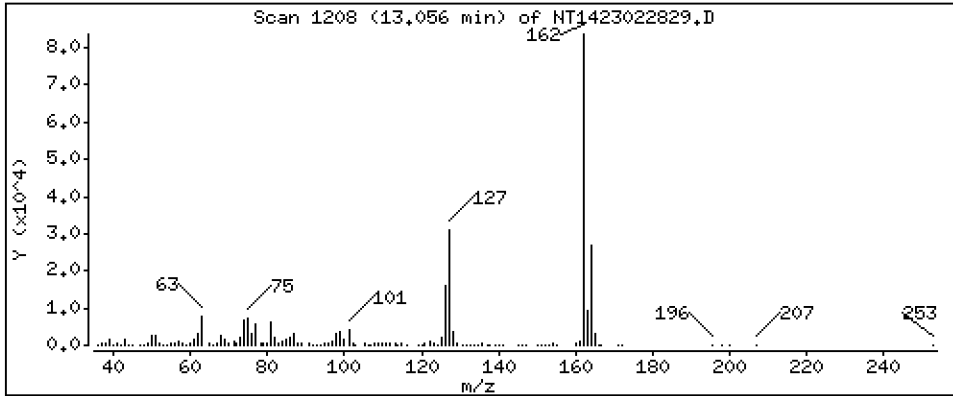
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 1,927 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

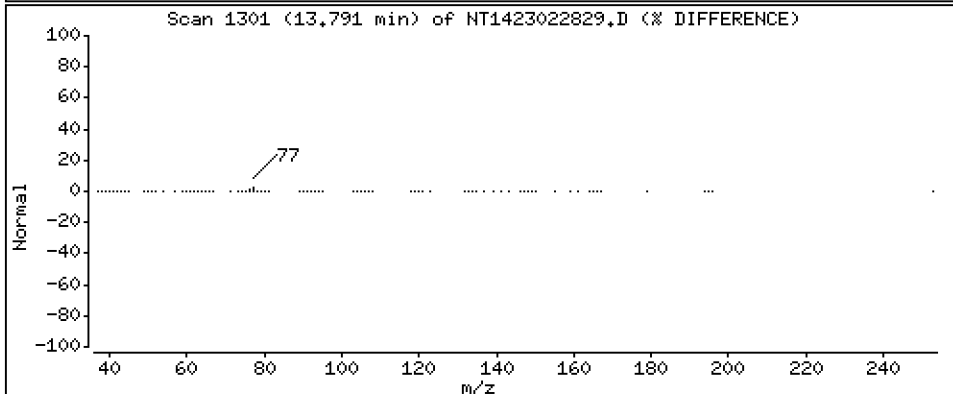
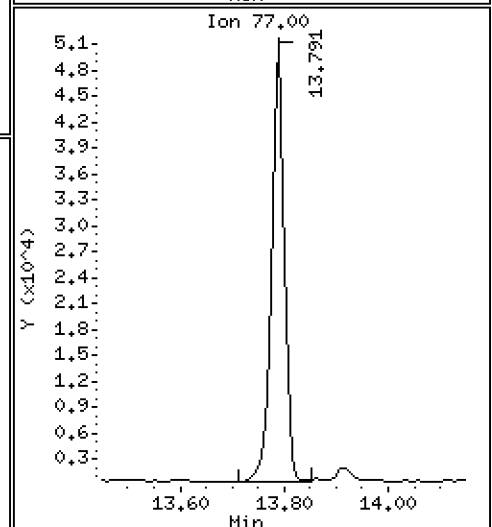
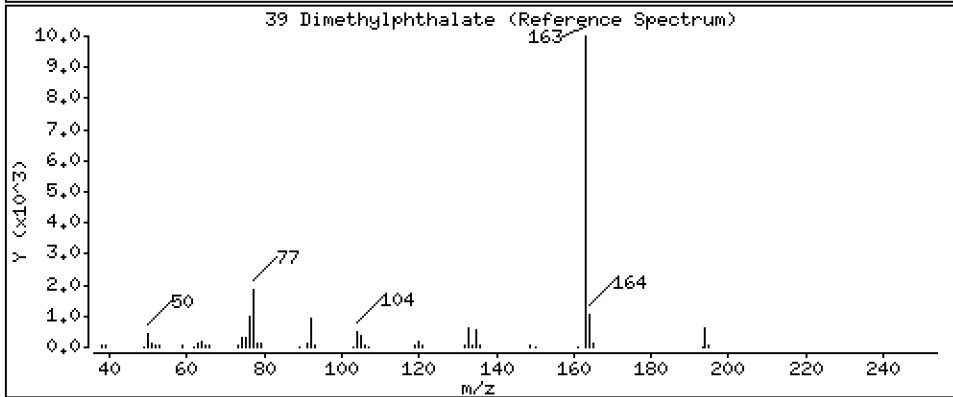
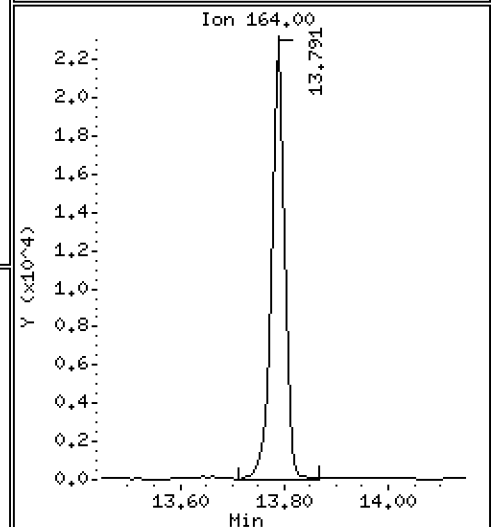
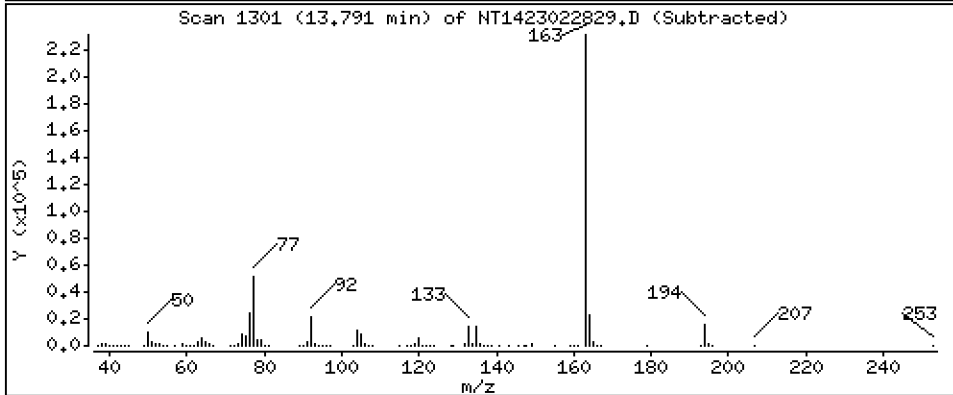
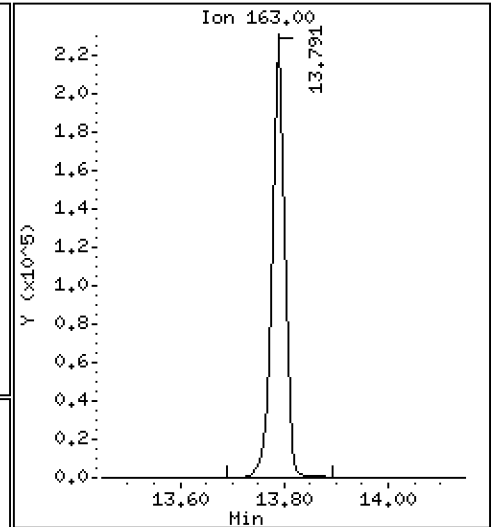
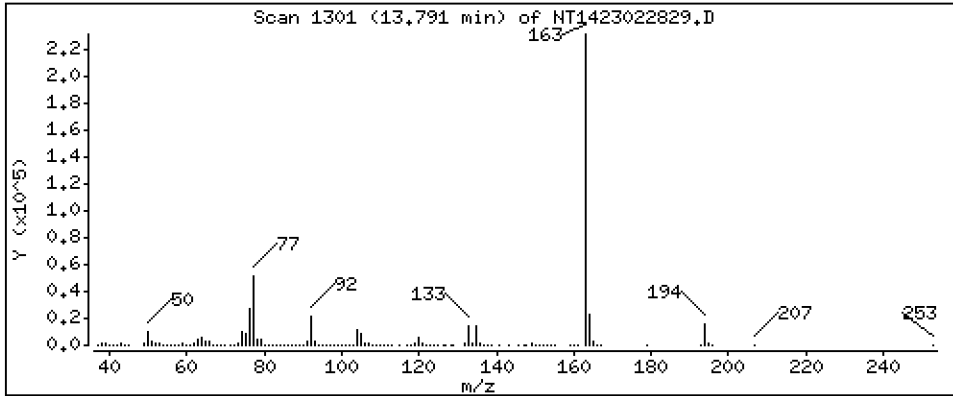
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,364 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

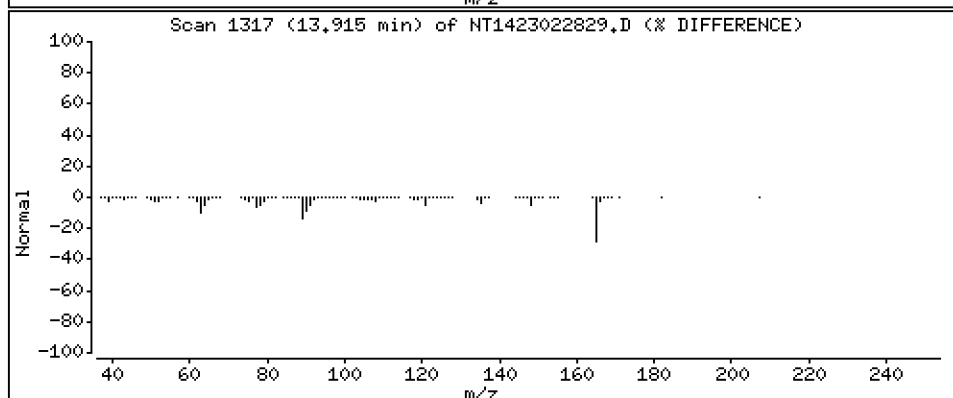
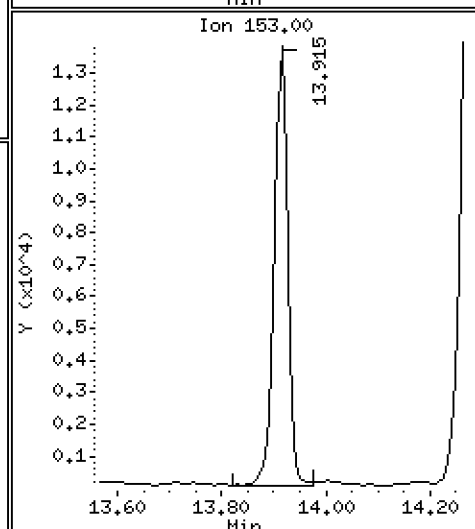
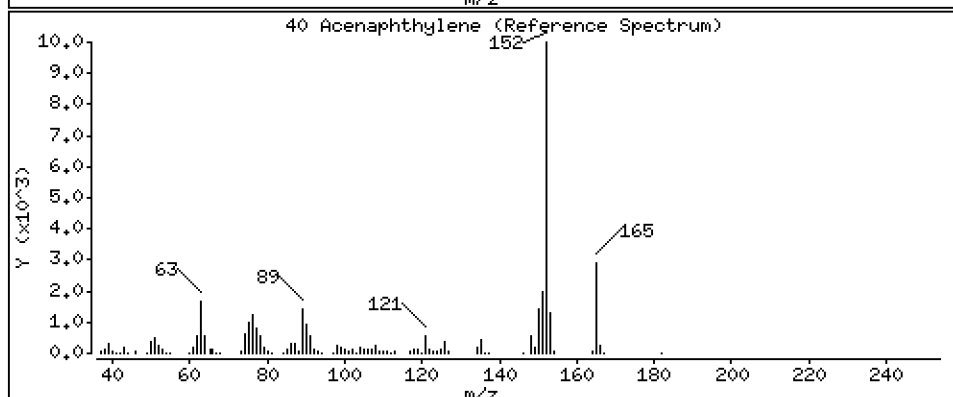
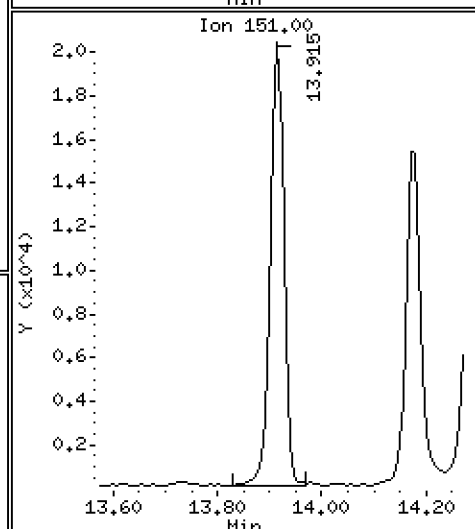
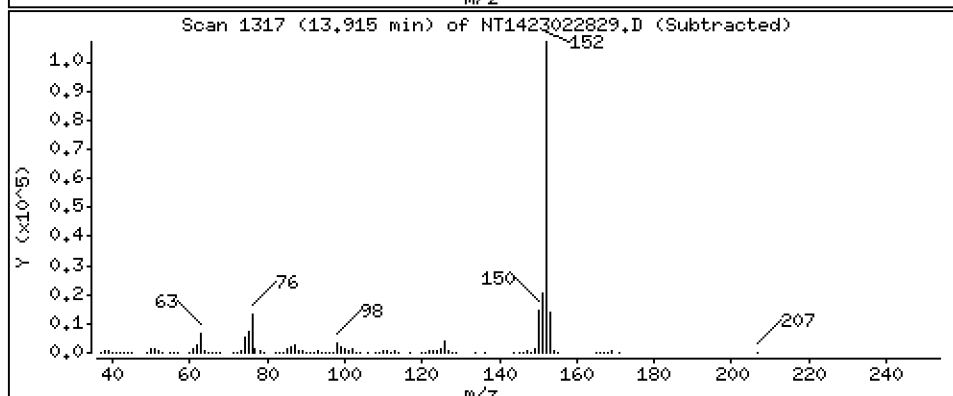
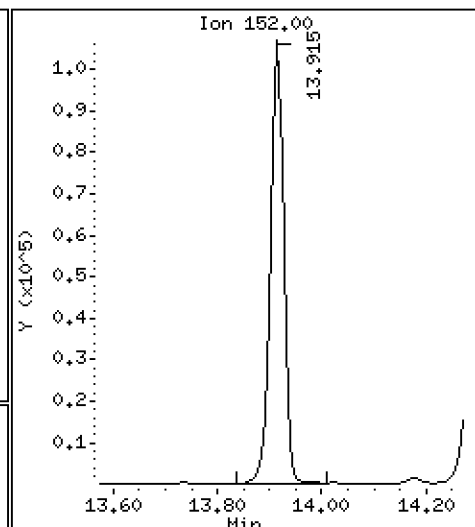
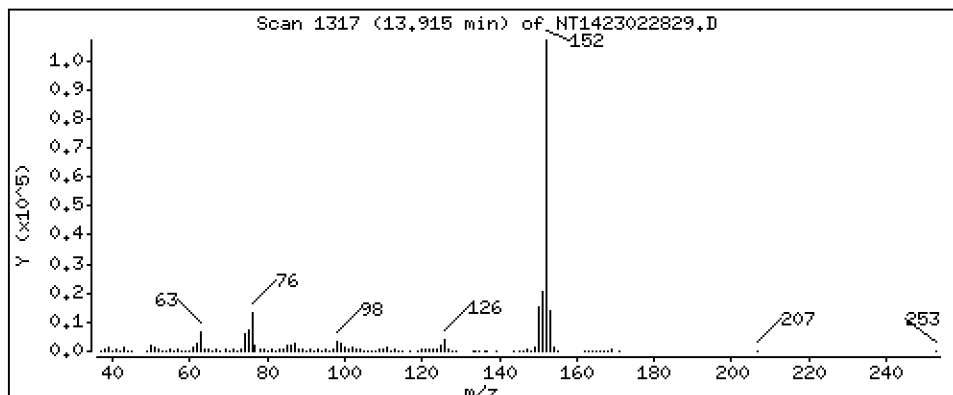
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 1,594 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

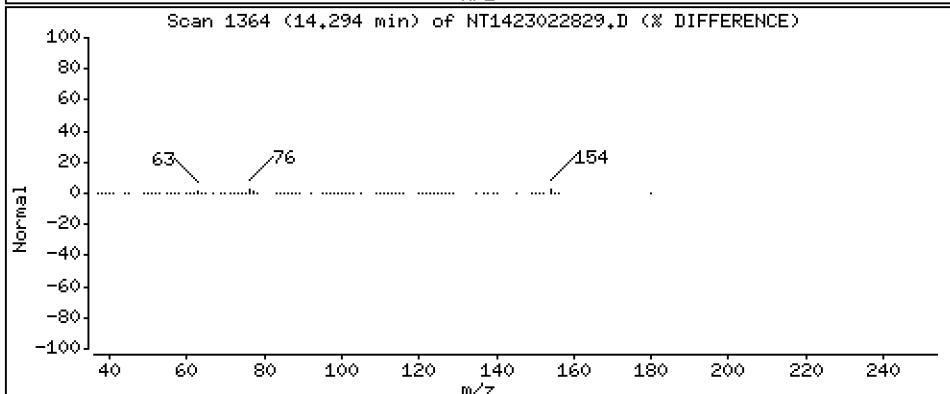
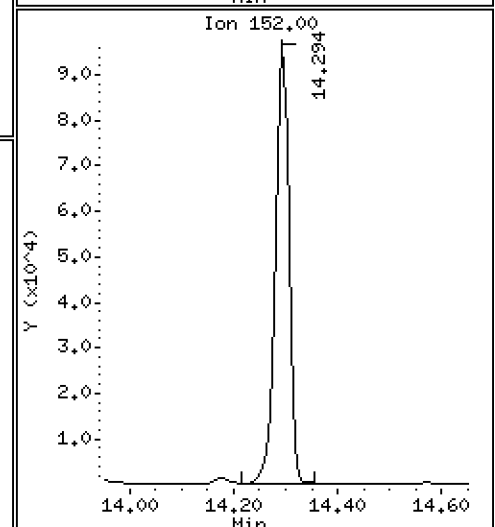
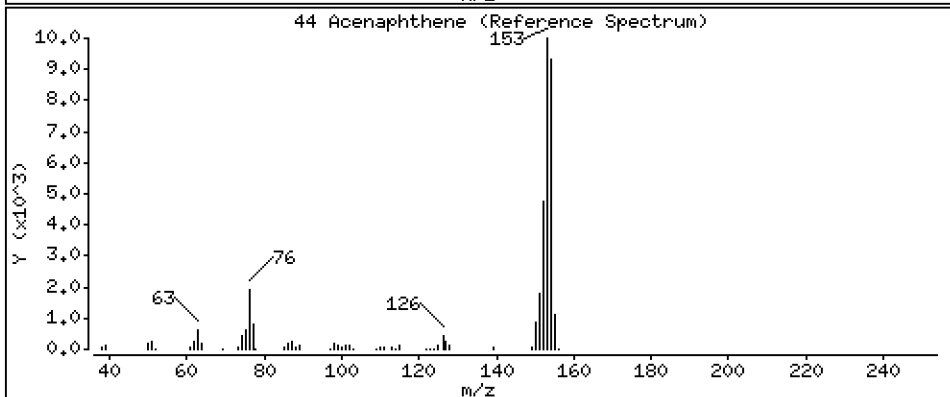
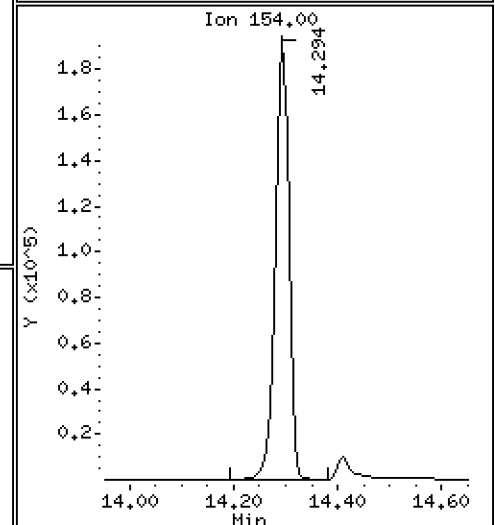
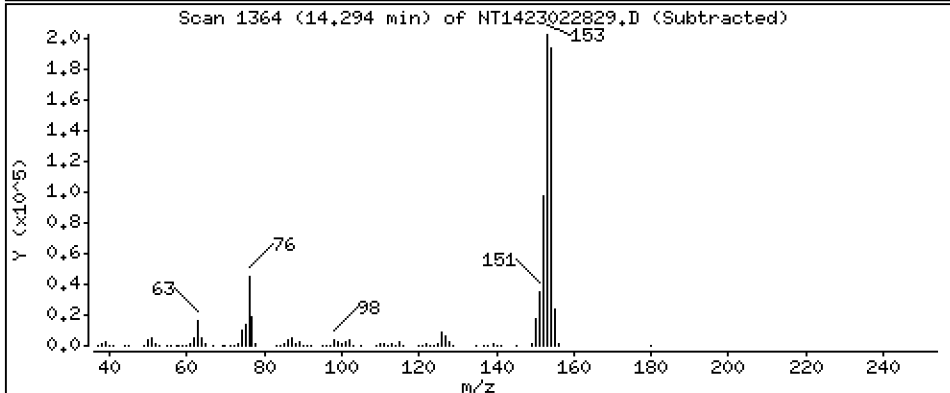
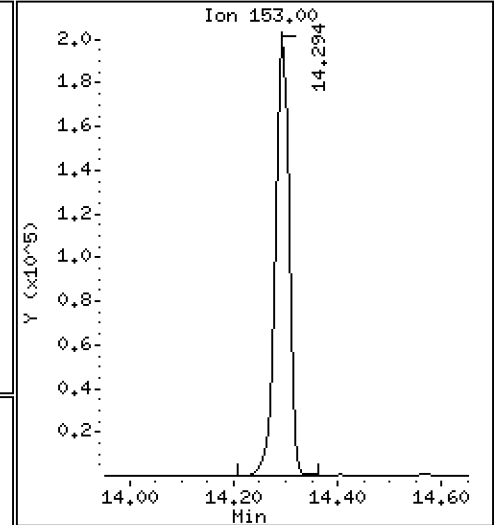
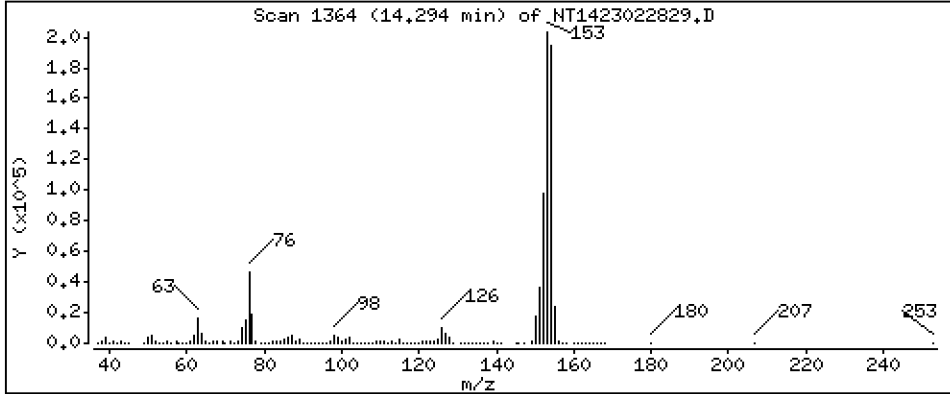
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,821 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

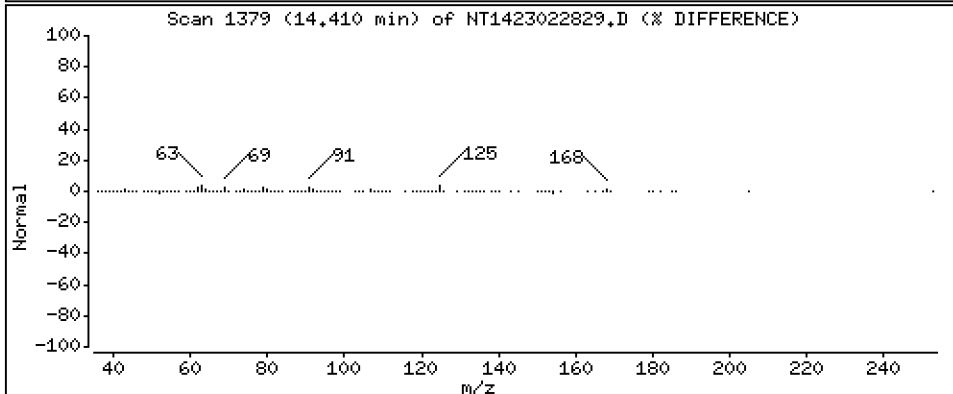
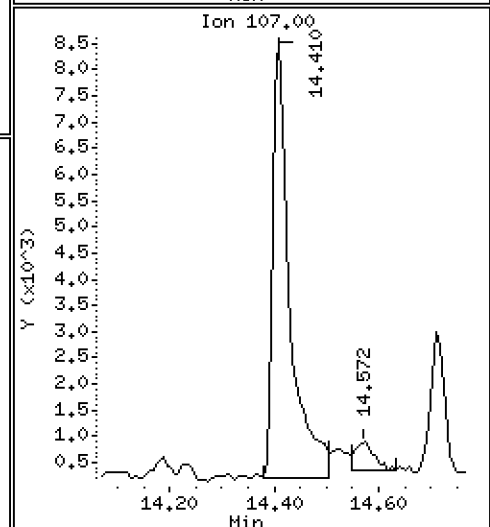
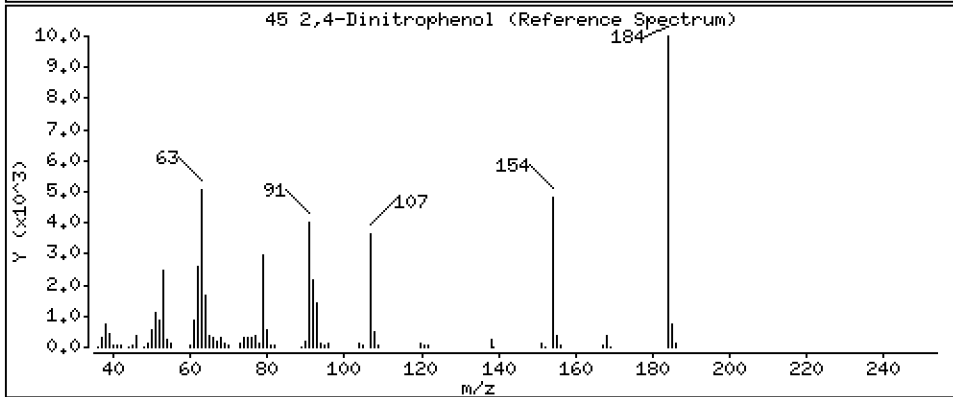
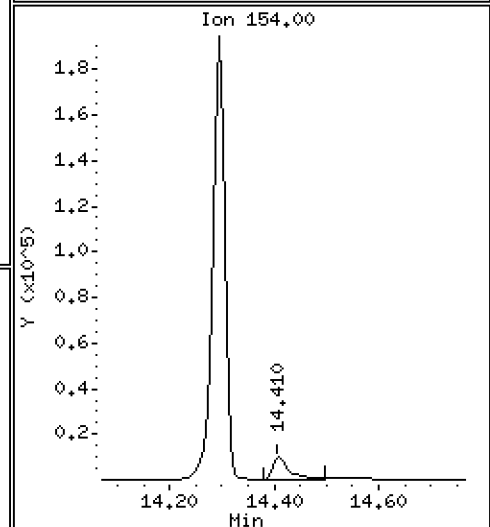
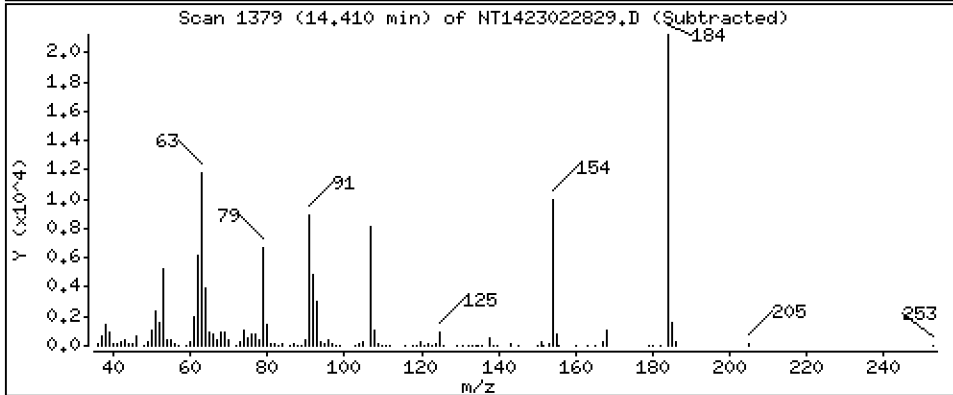
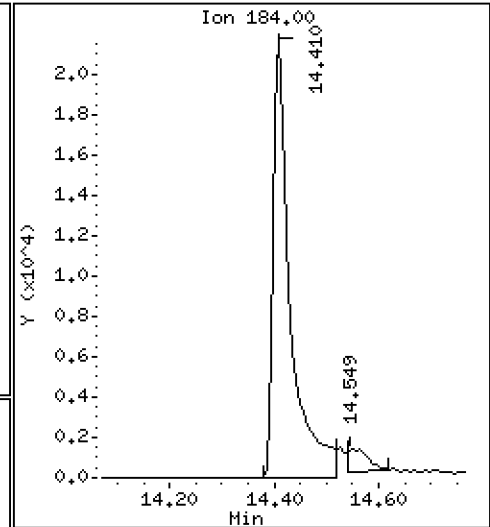
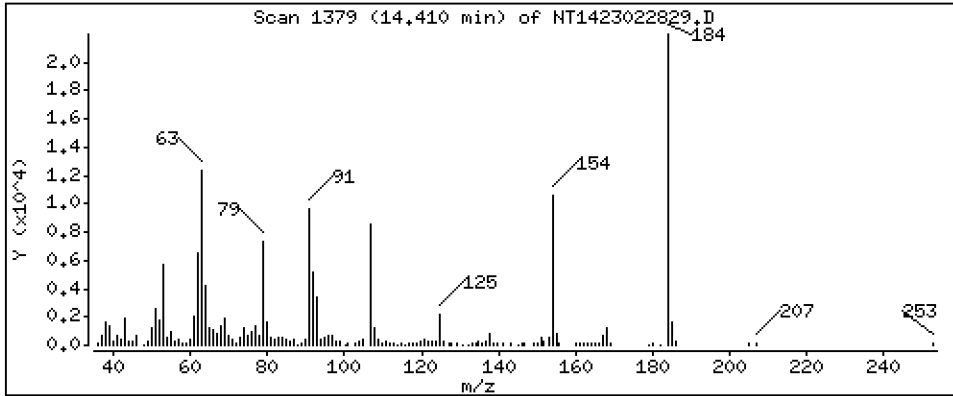
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 4,163 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

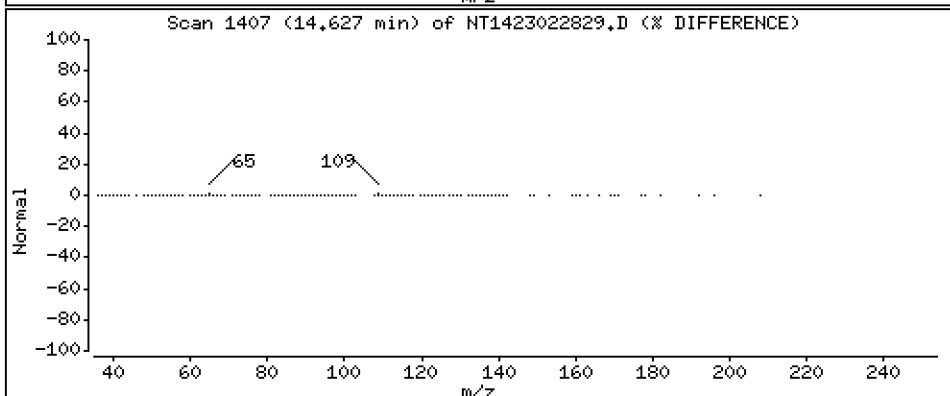
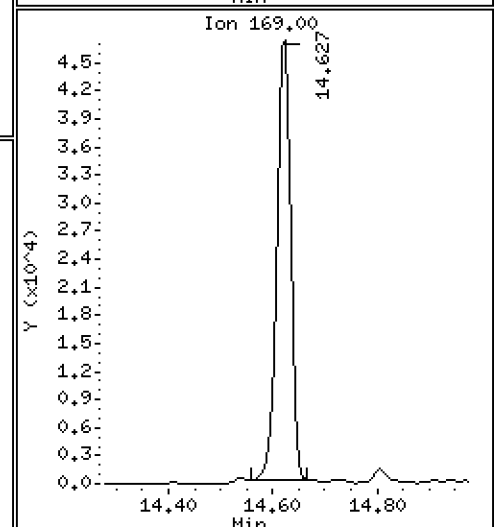
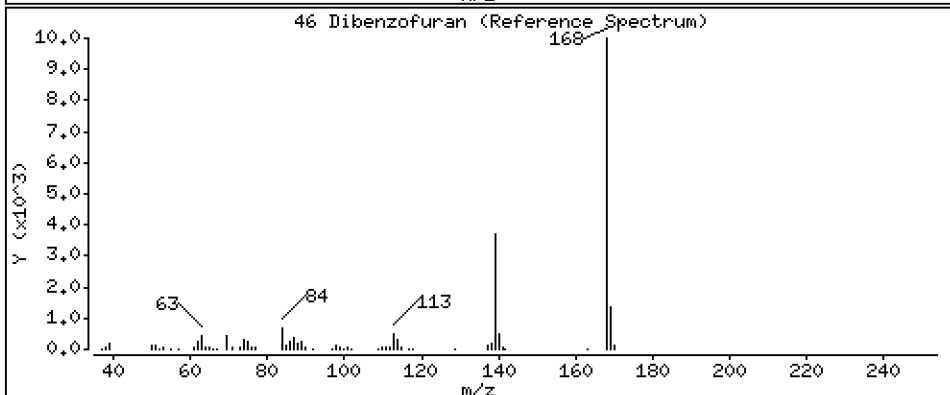
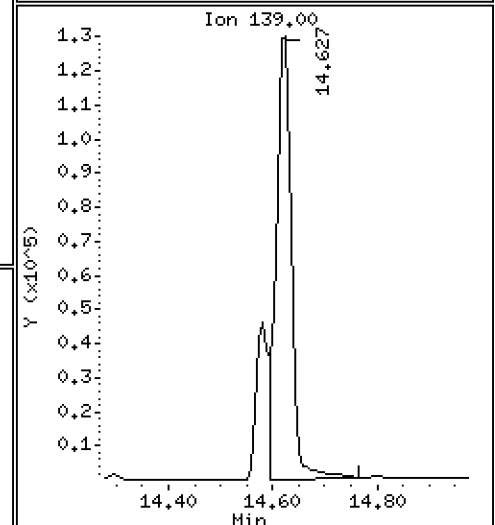
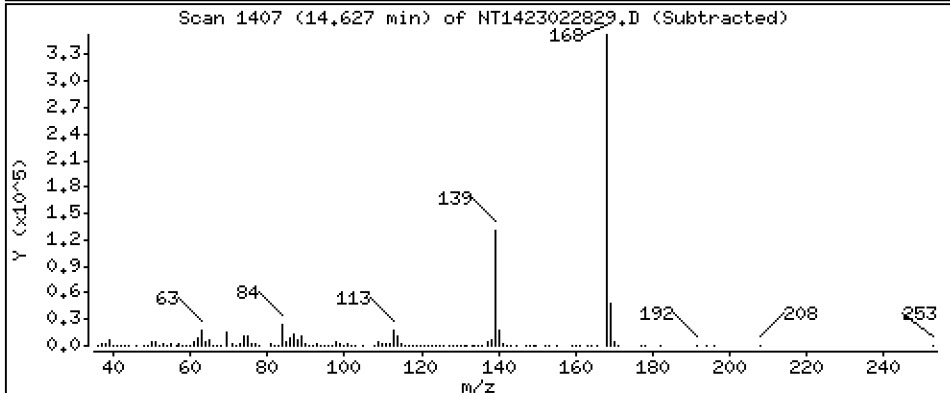
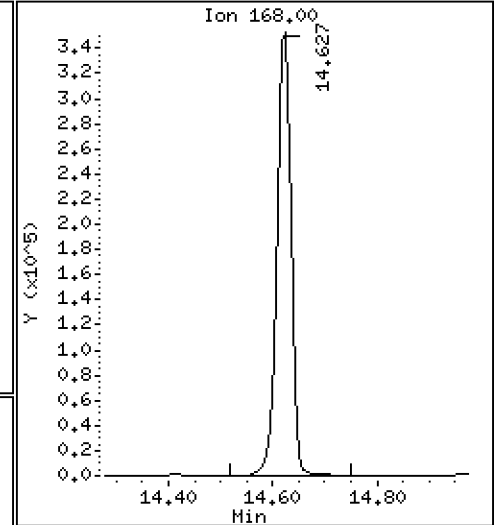
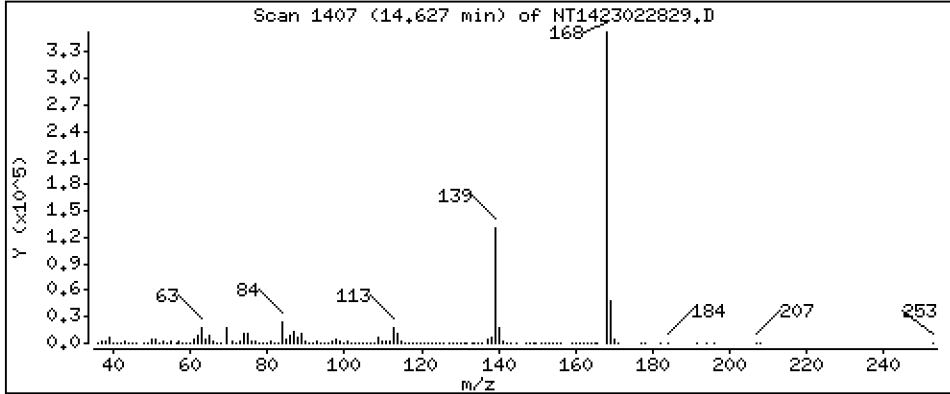
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 5,601 ug/mL





Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

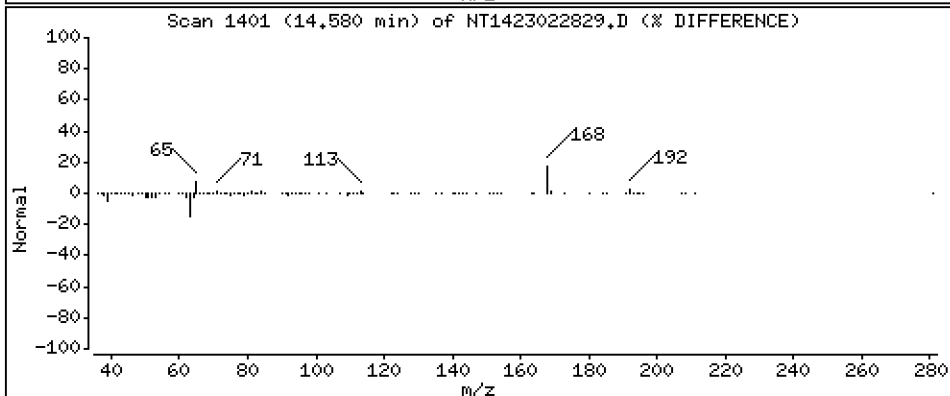
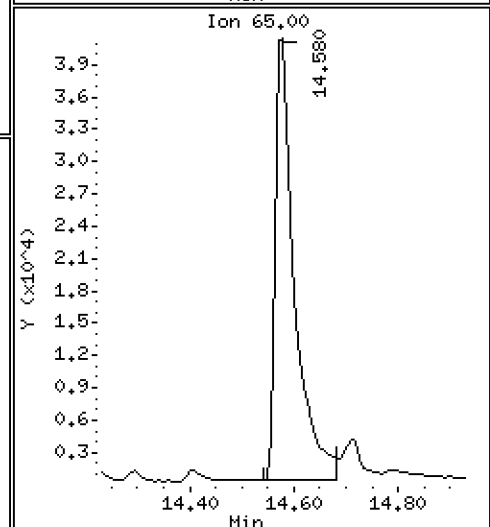
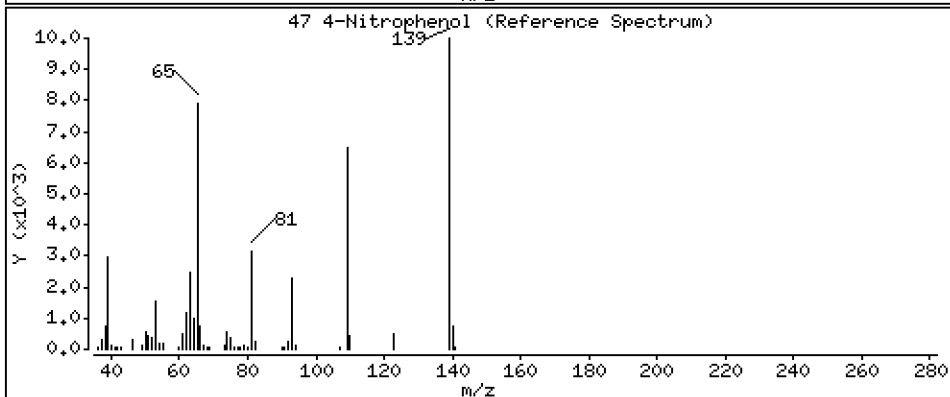
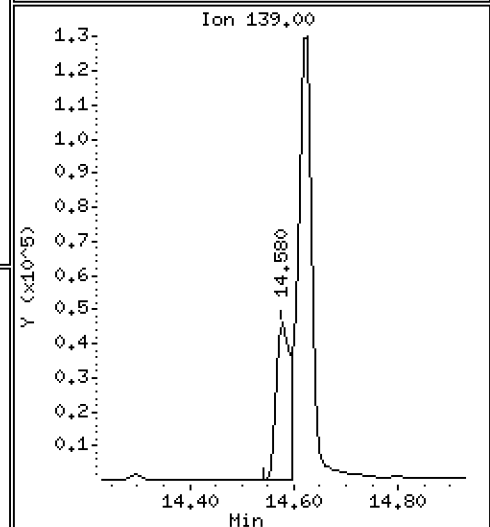
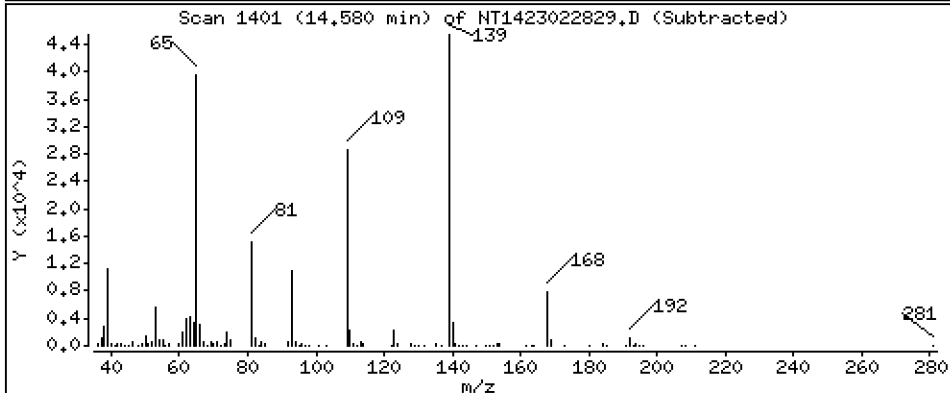
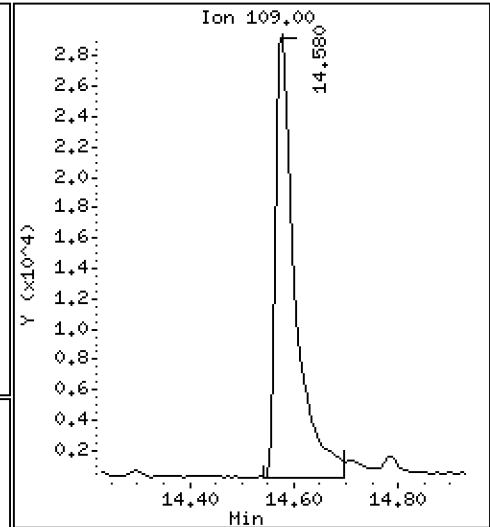
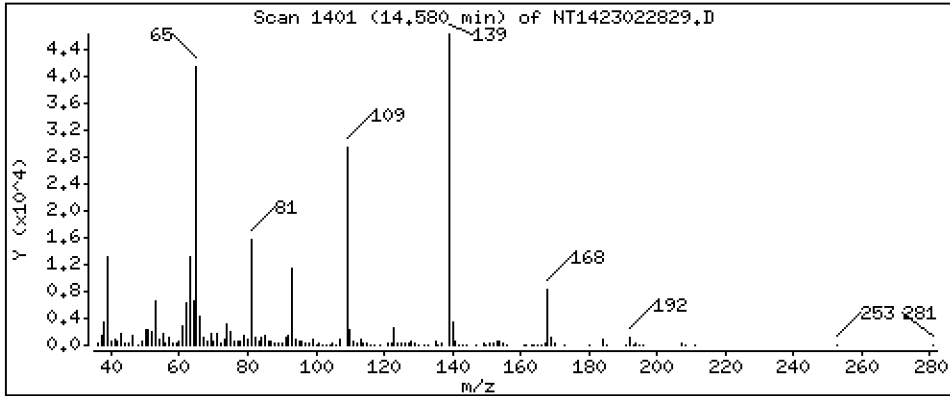
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 7,904 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

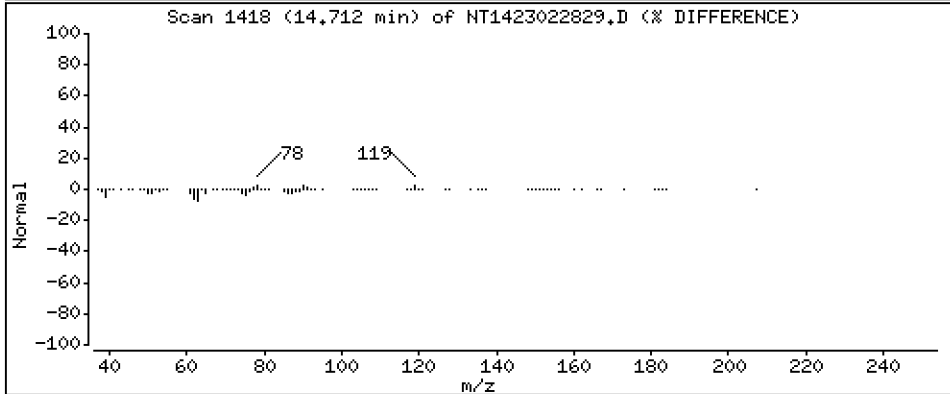
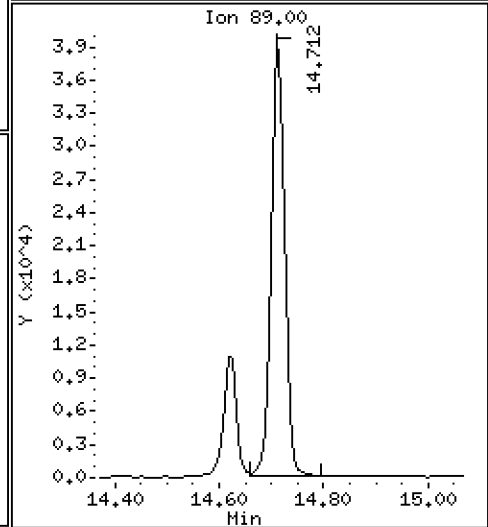
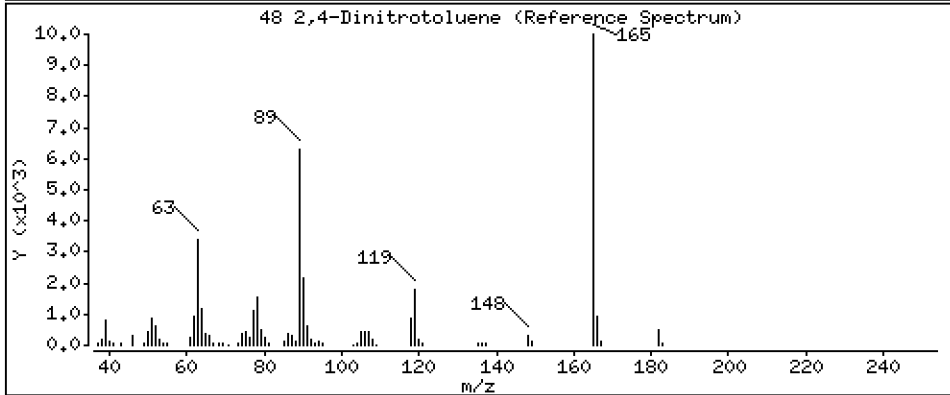
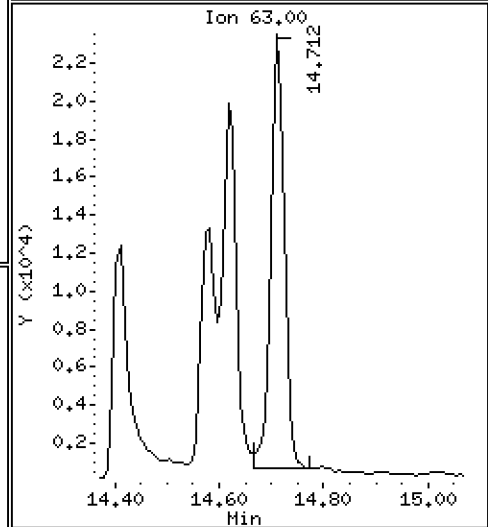
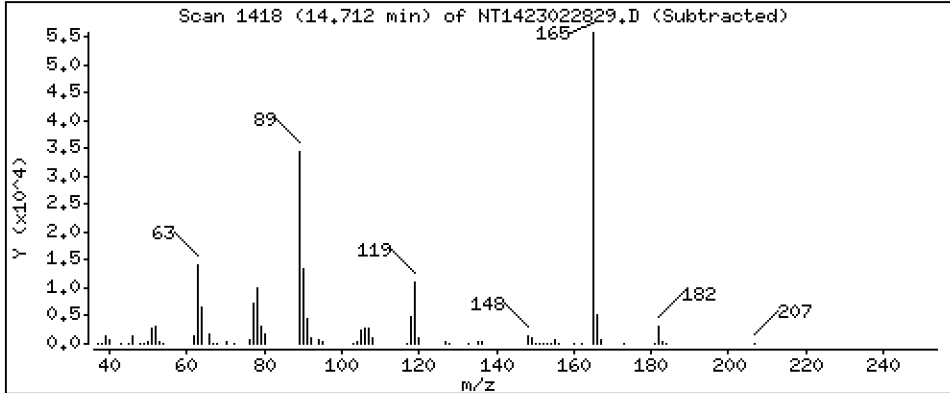
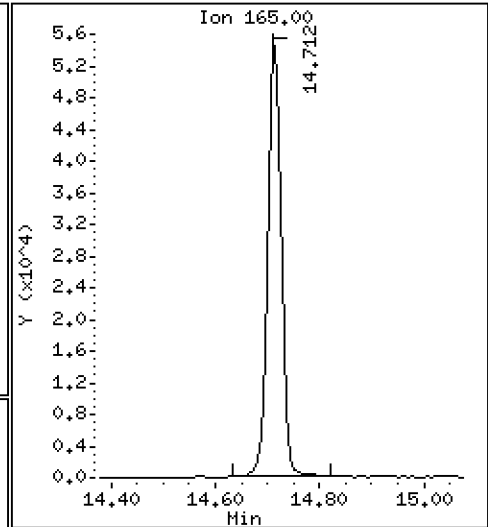
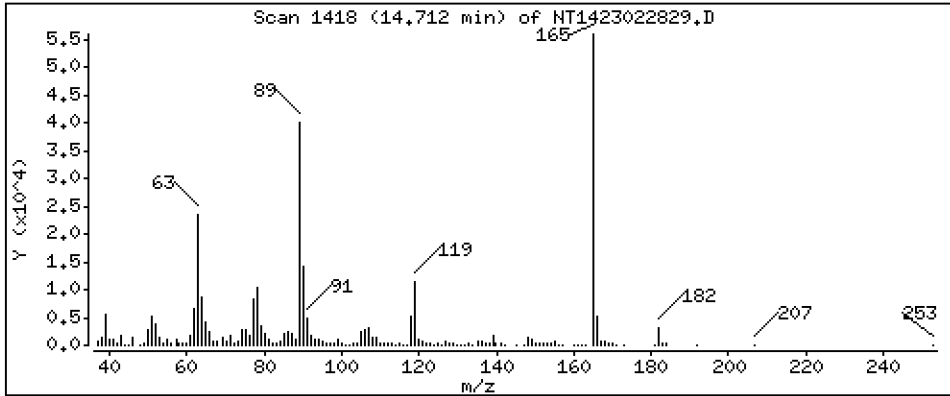
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 3,680 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

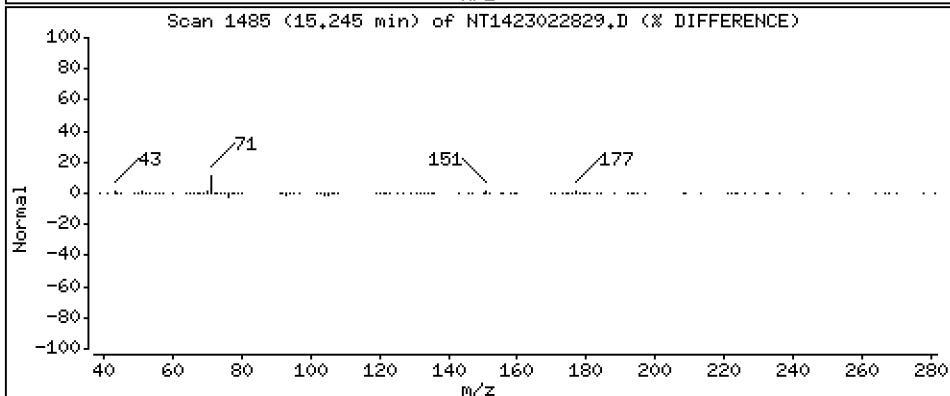
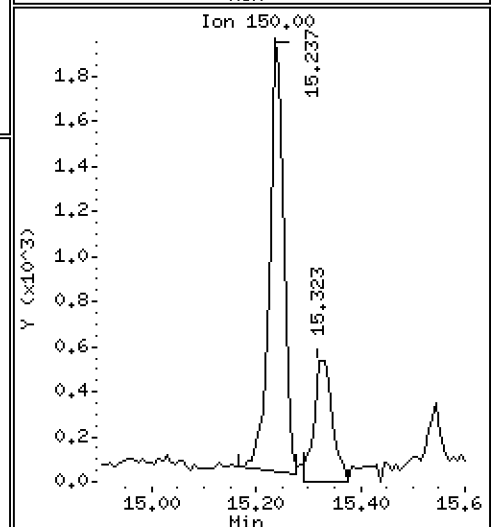
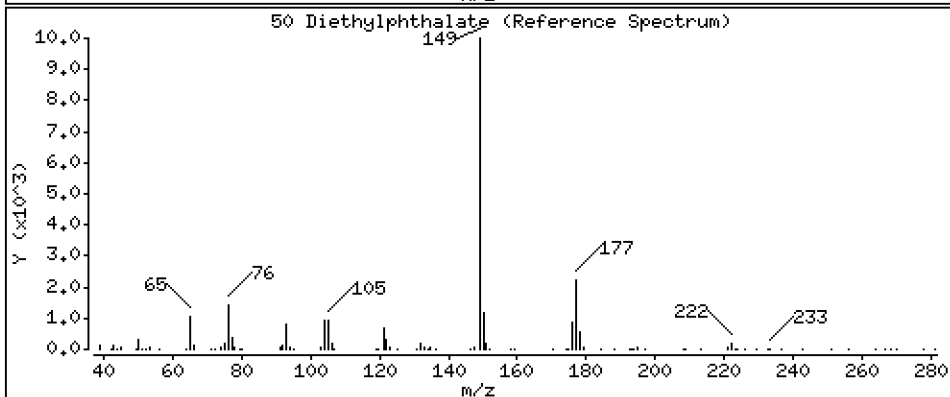
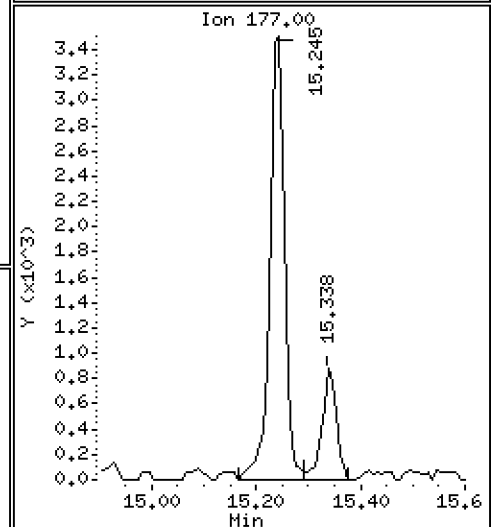
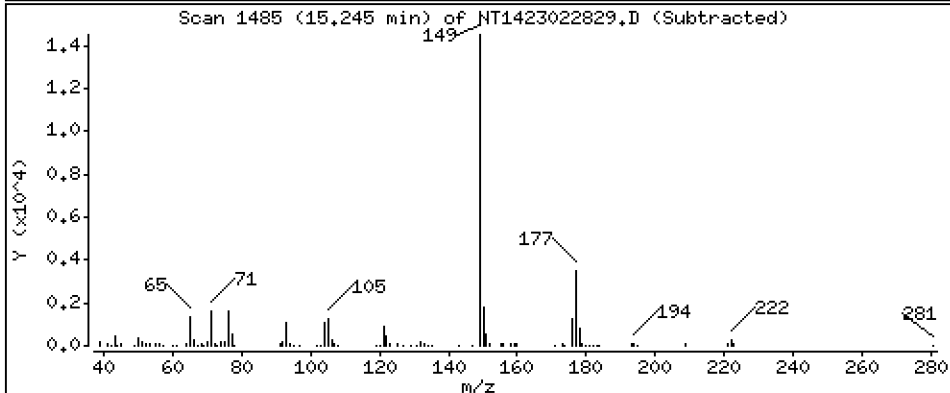
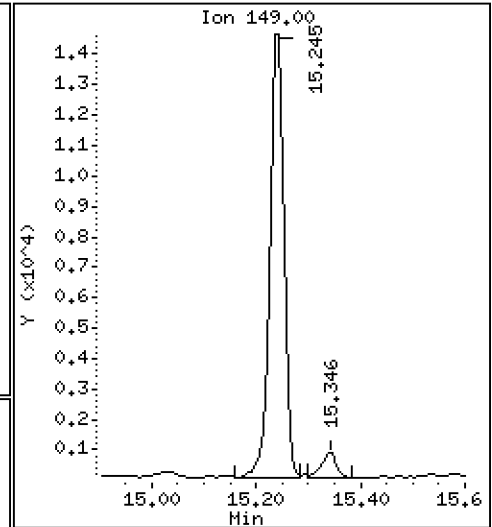
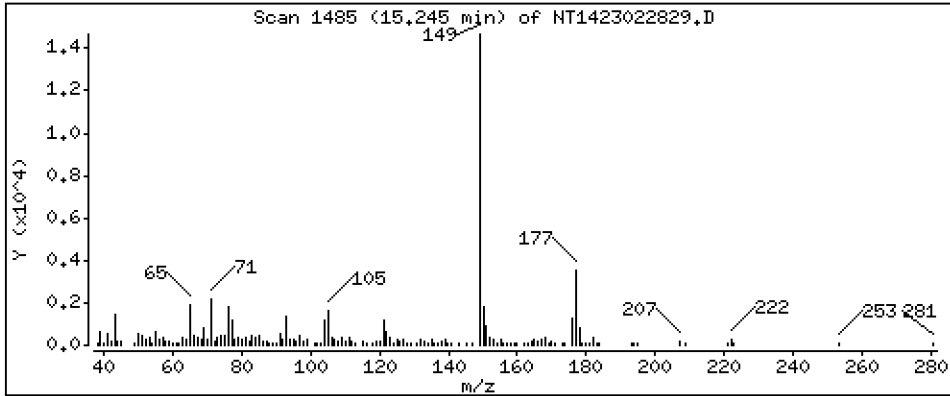
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,3633 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

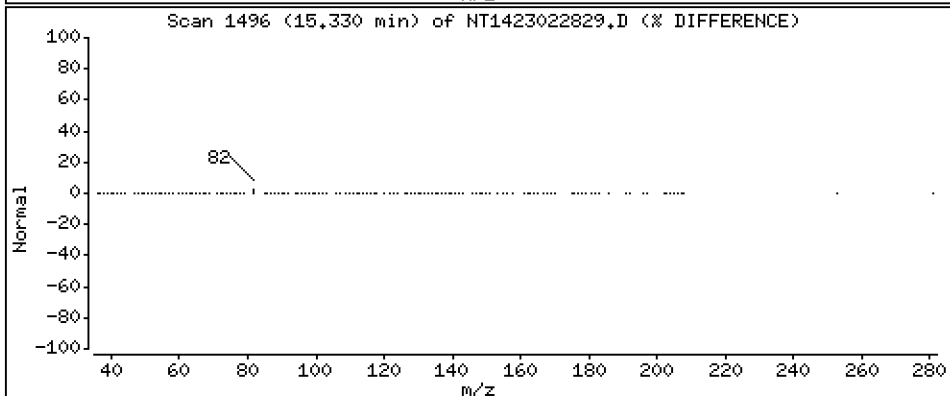
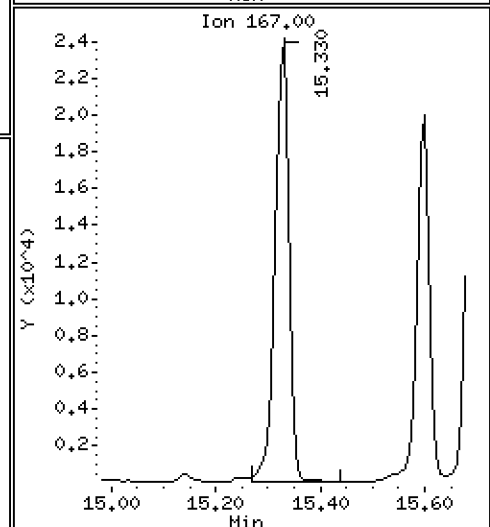
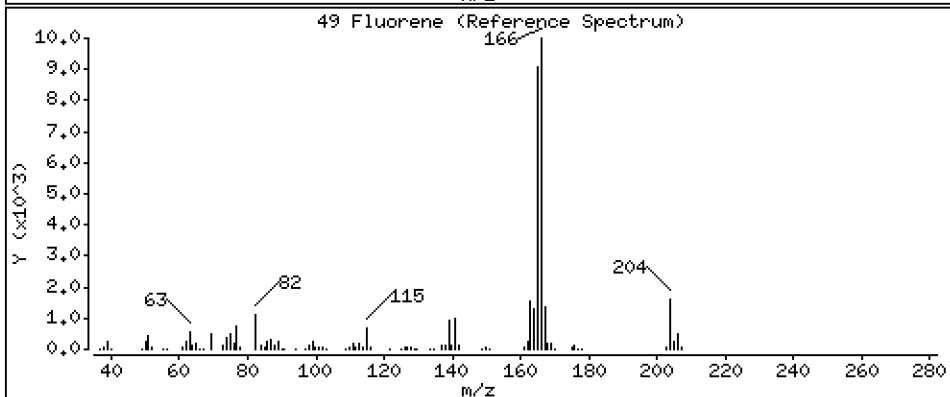
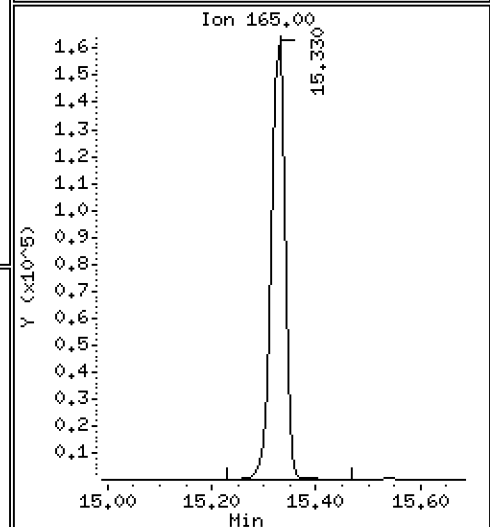
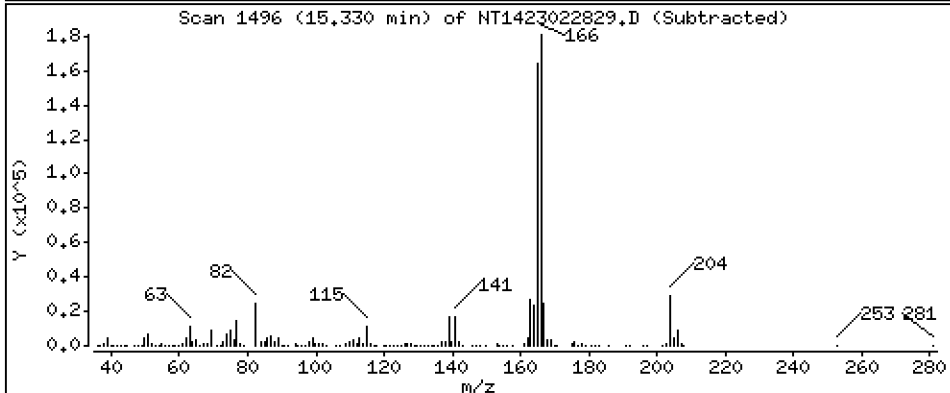
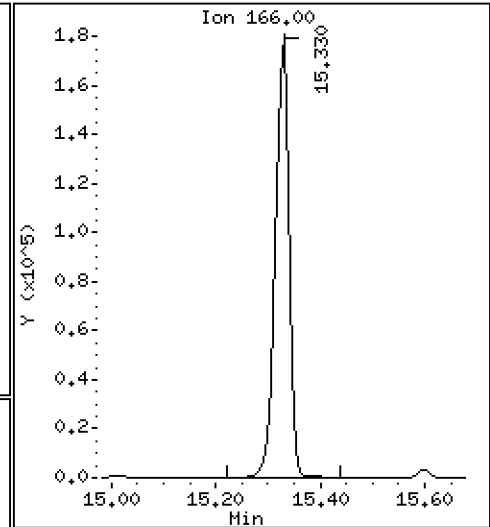
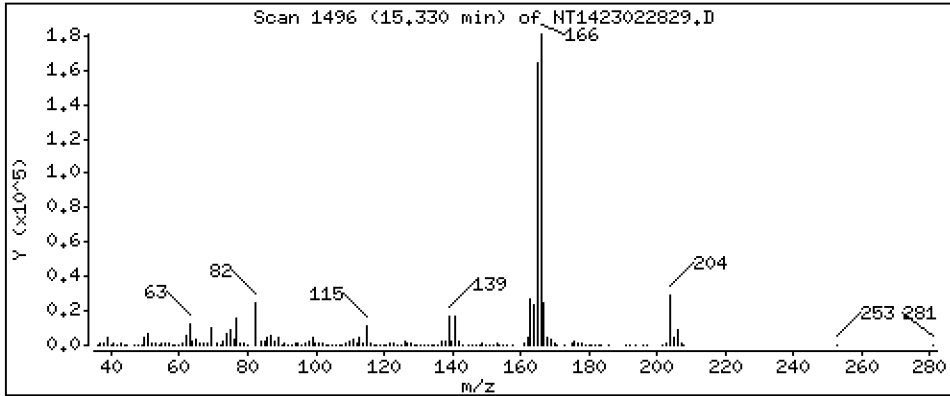
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 3,530 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

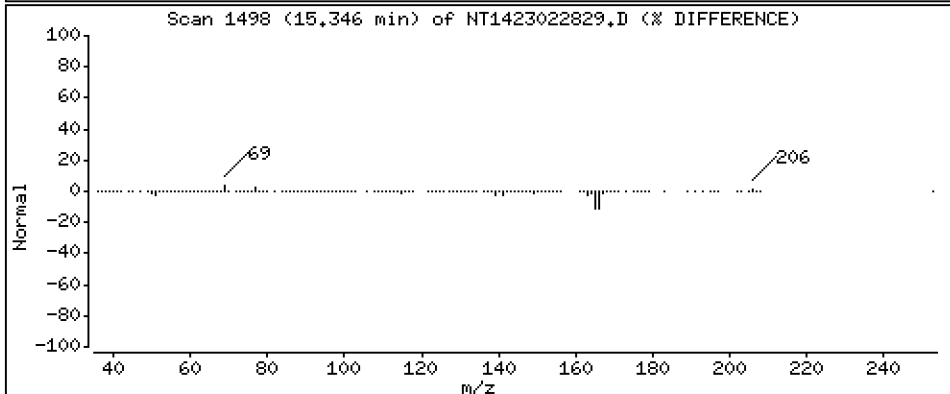
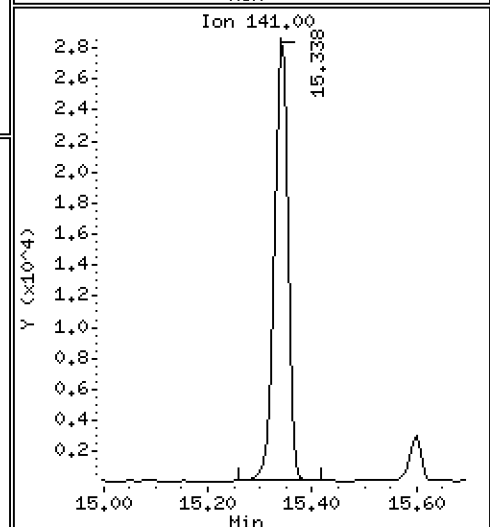
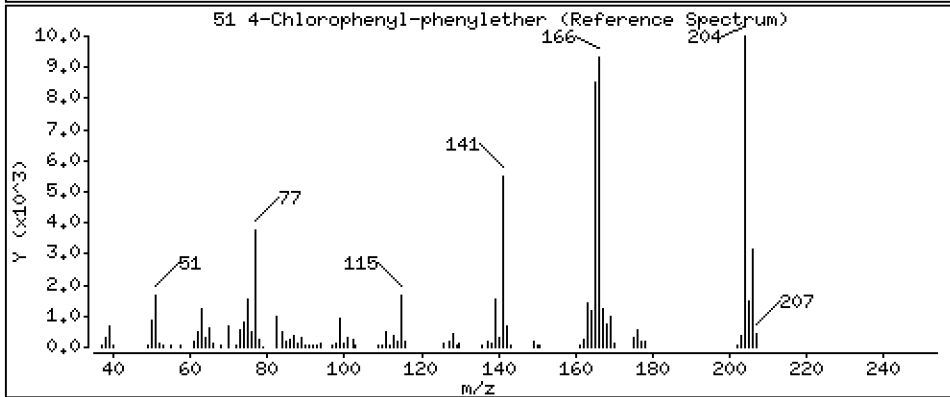
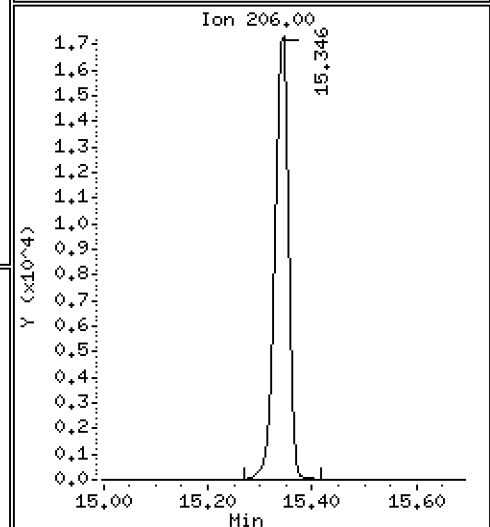
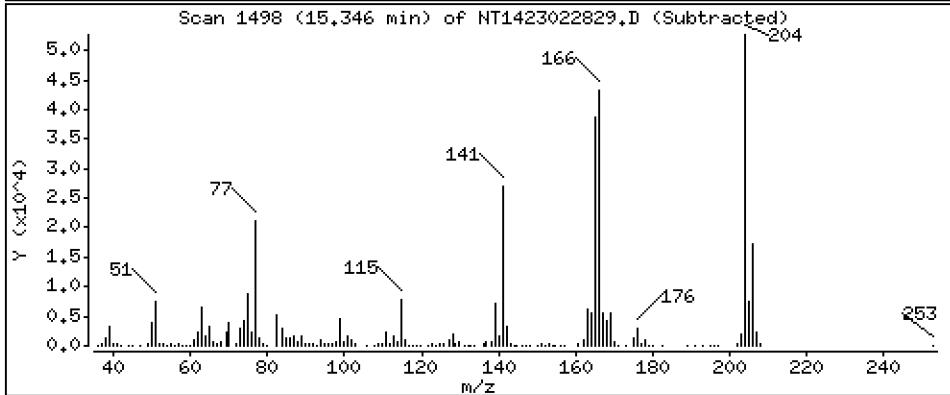
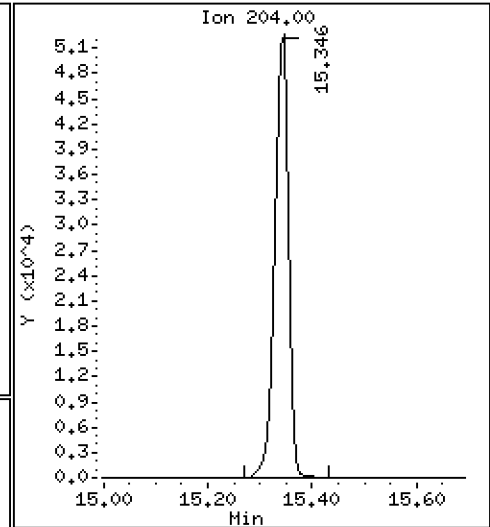
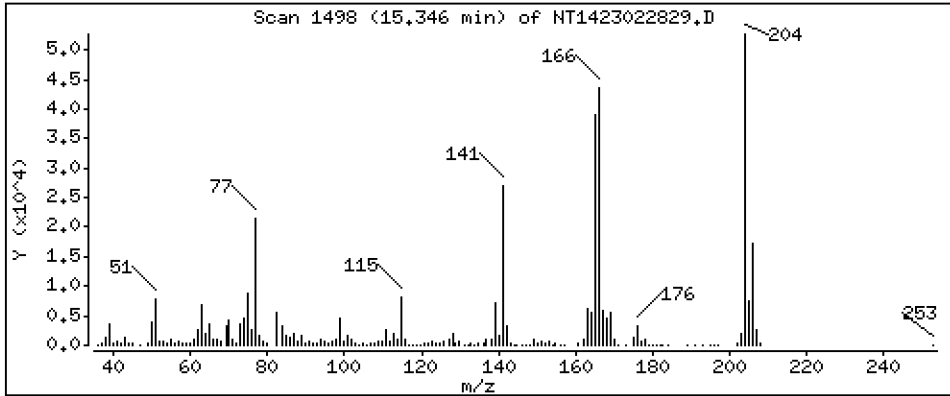
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 1,990 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

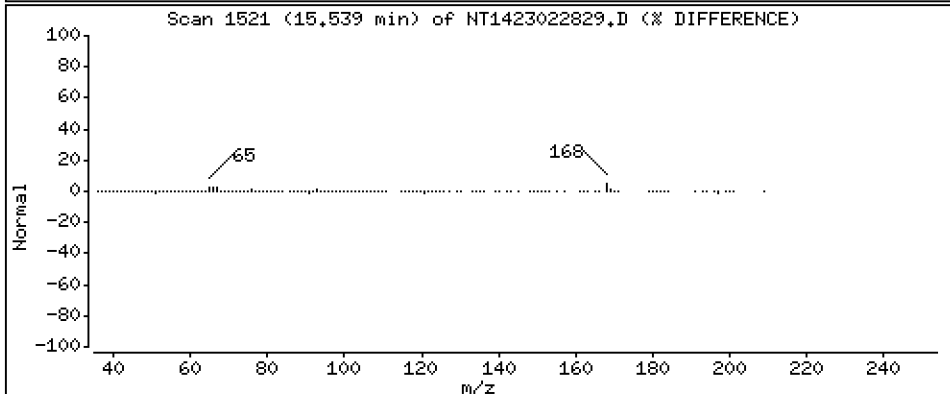
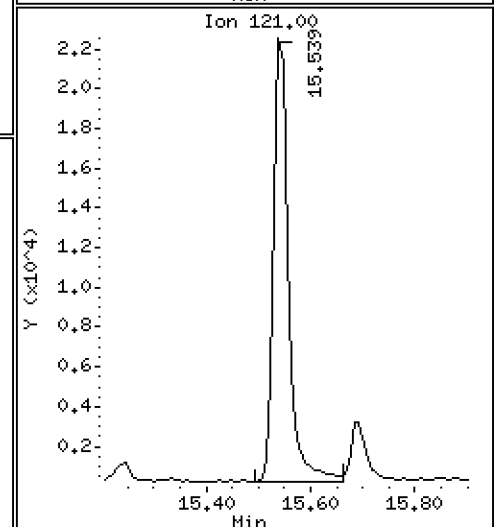
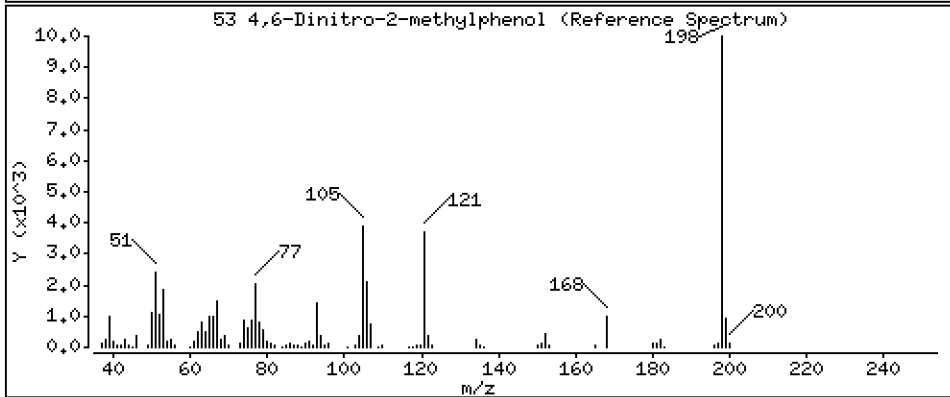
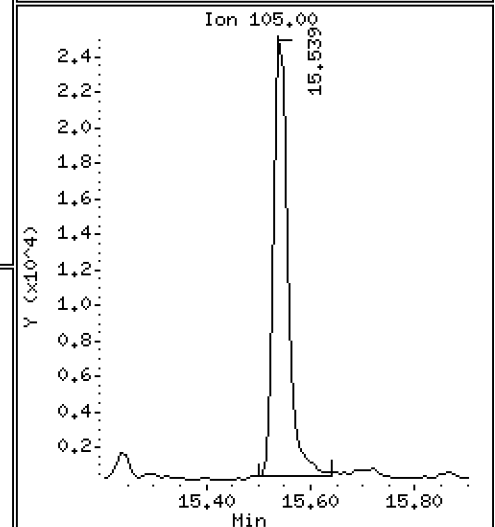
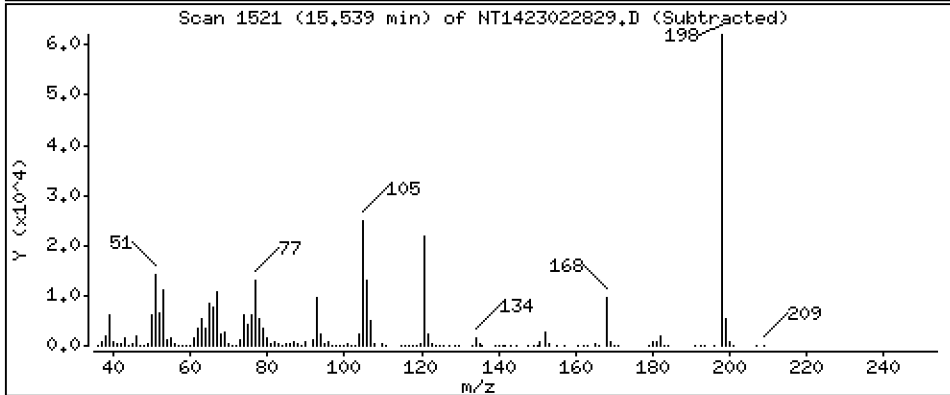
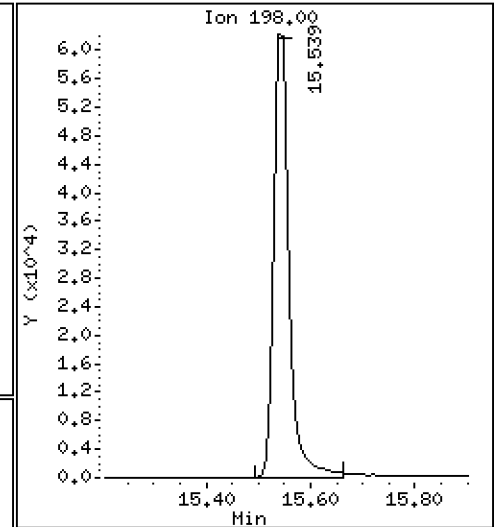
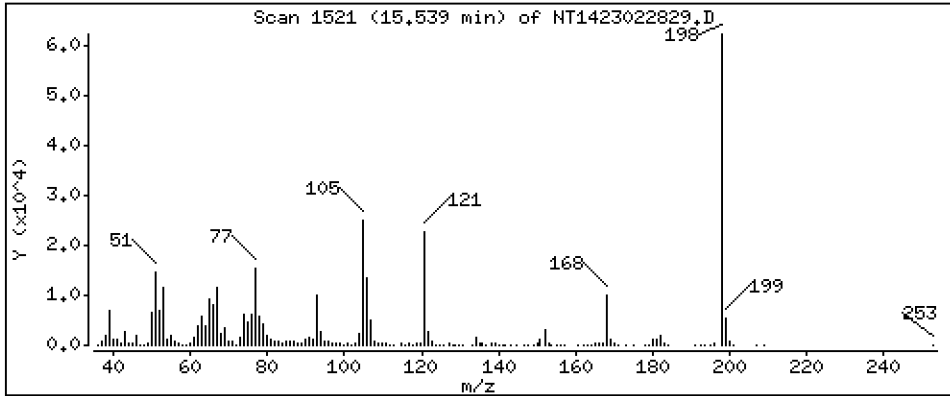
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 7,637 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

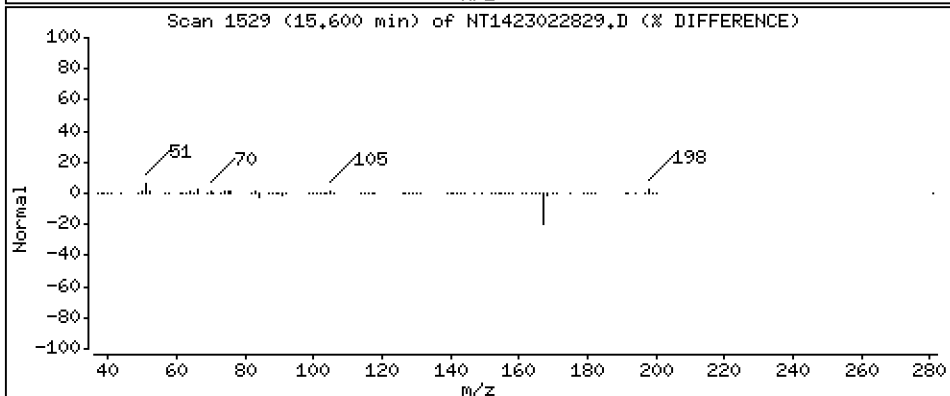
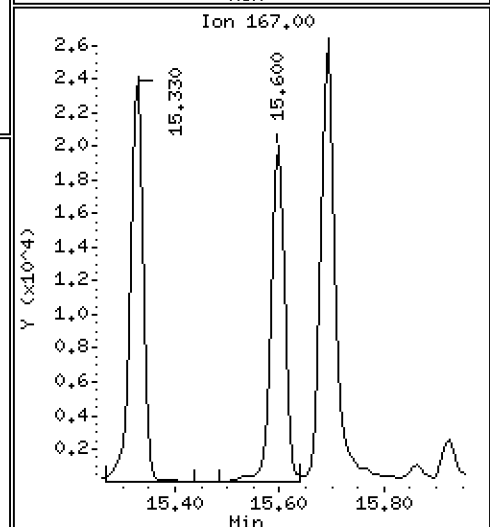
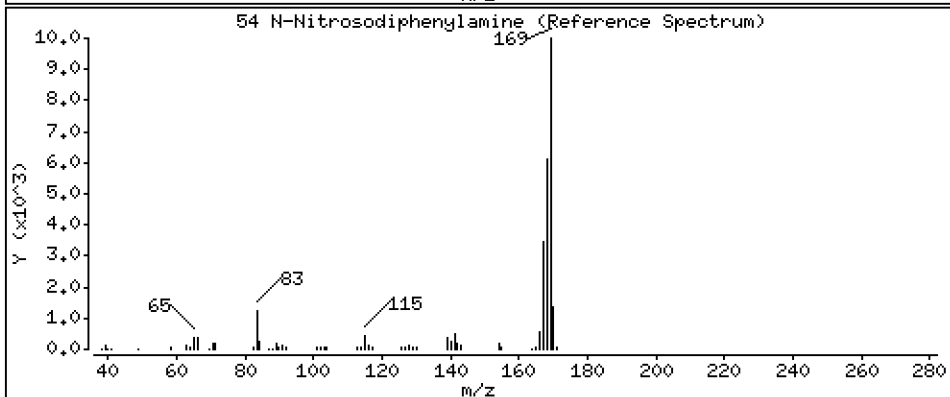
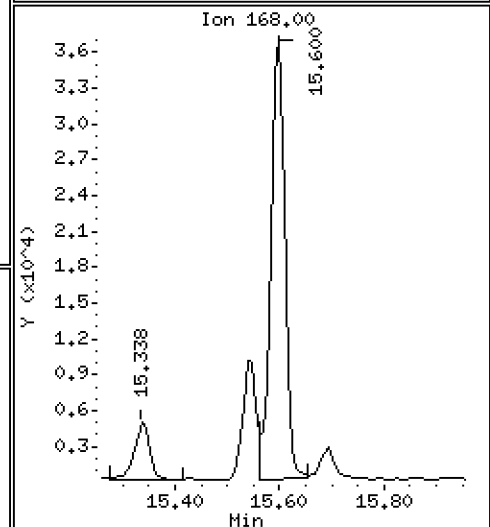
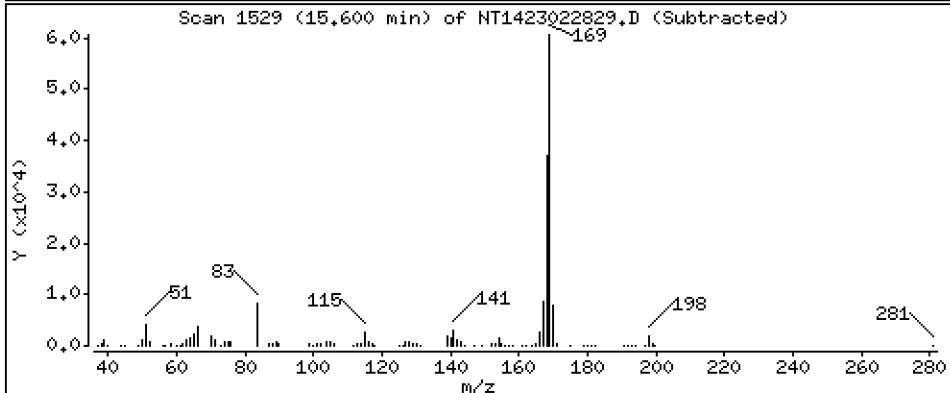
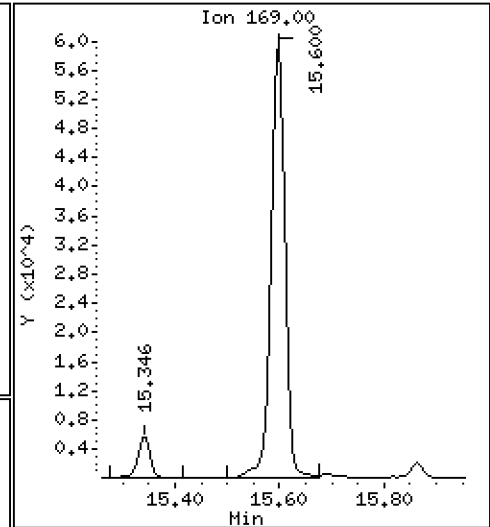
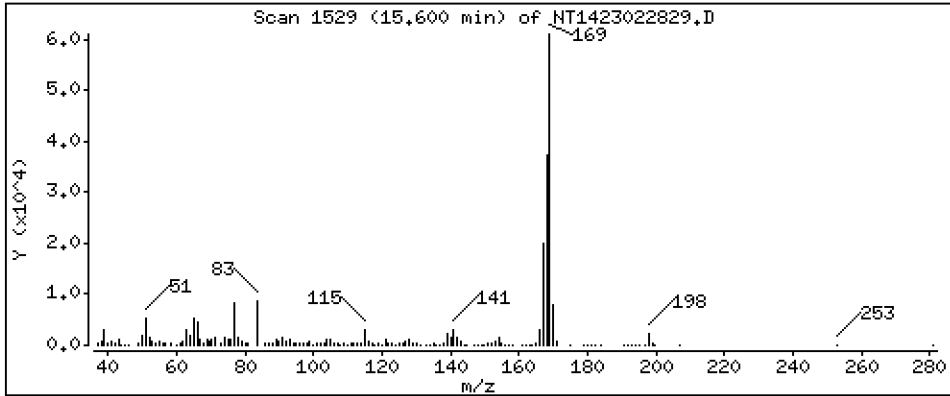
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 1,779 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

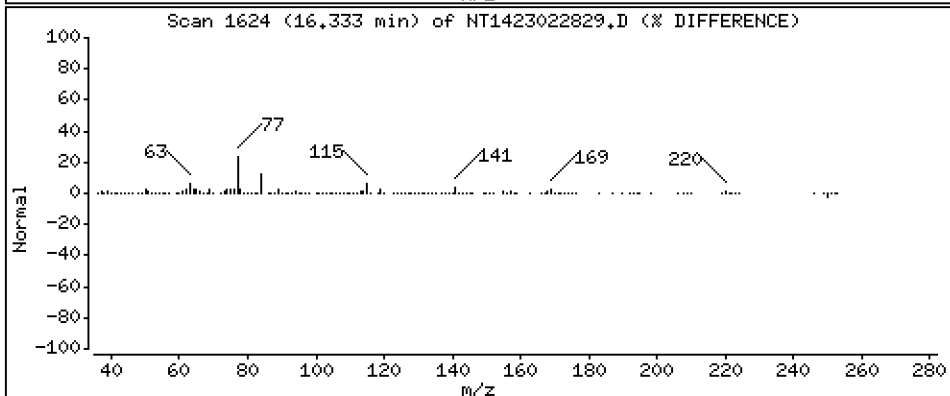
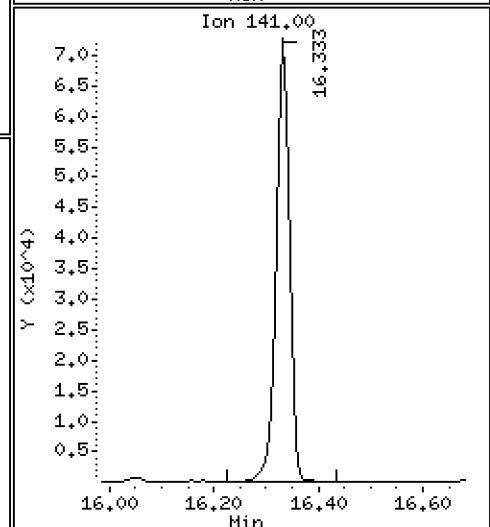
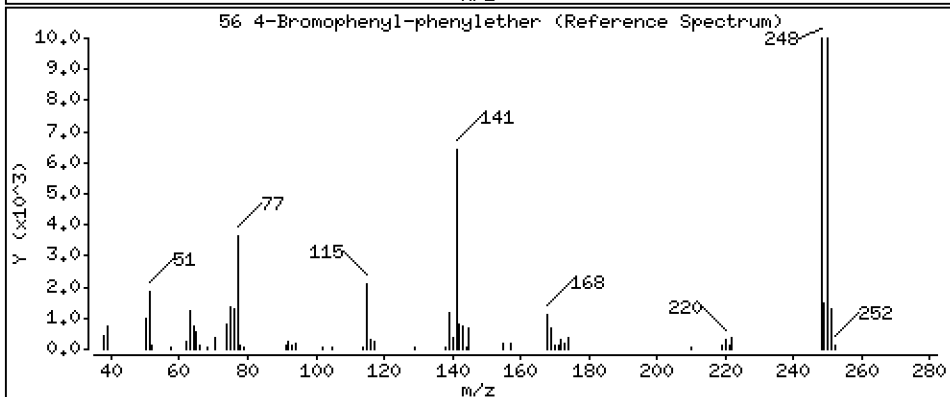
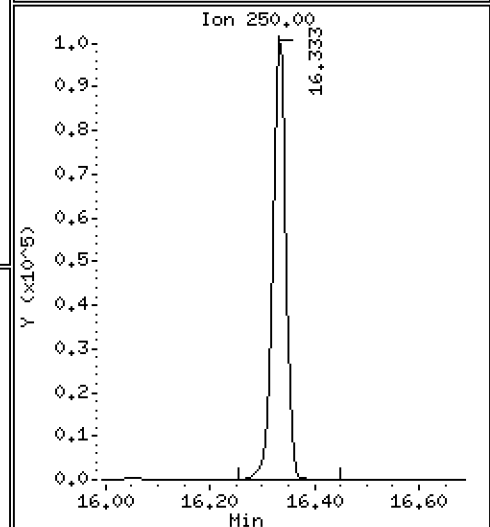
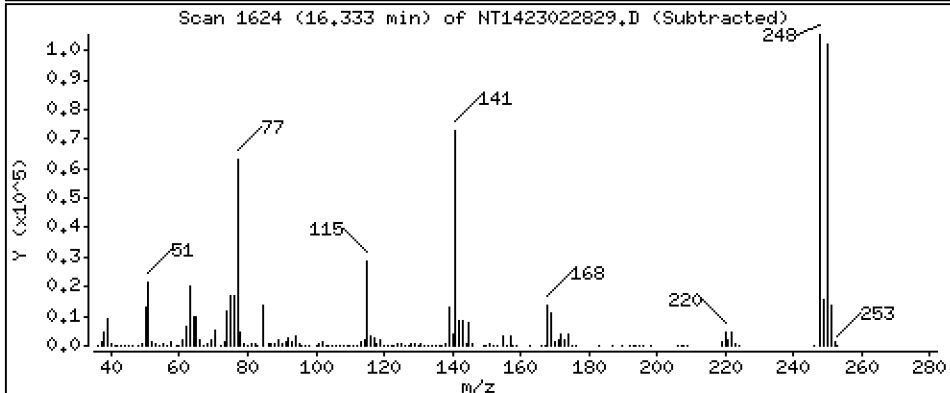
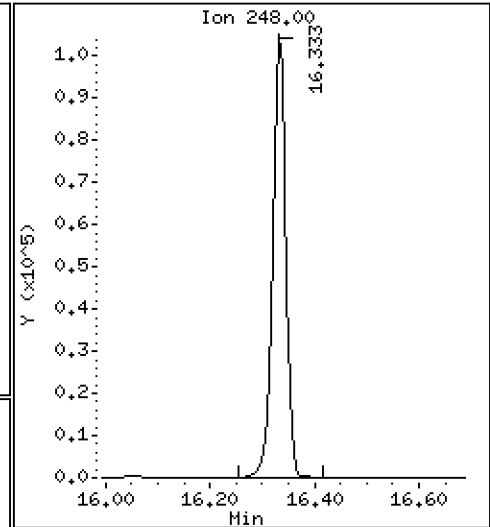
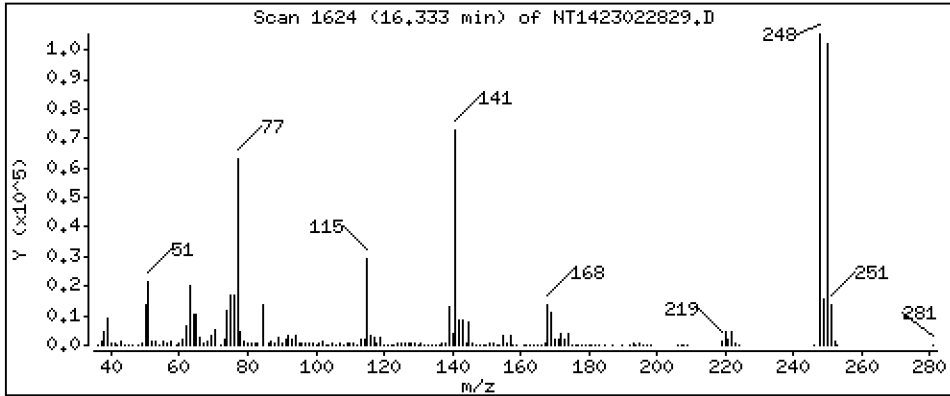
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 7,061 ug/mL





Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

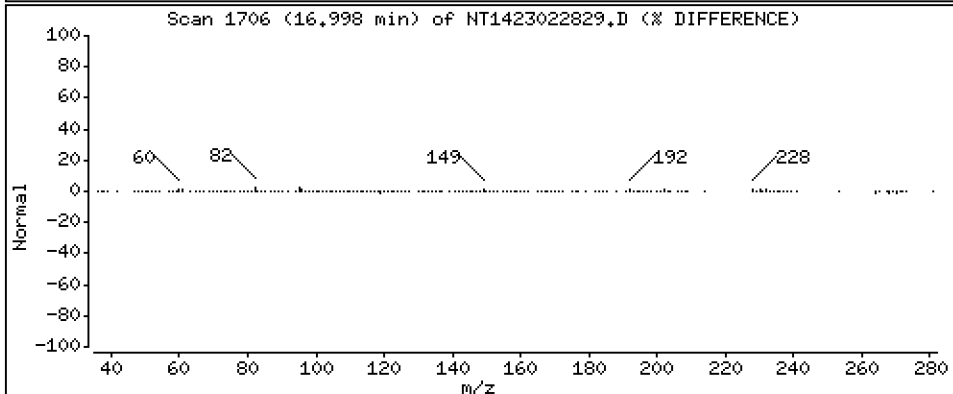
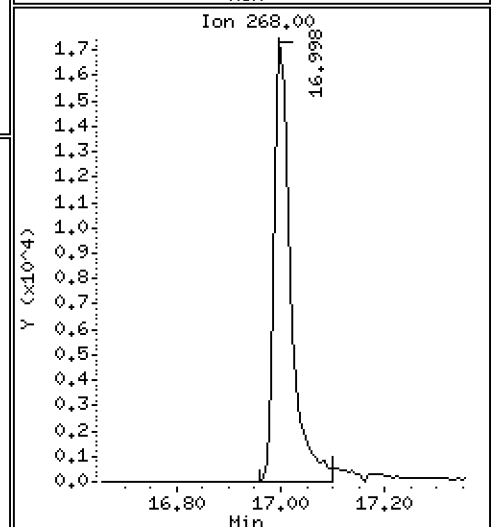
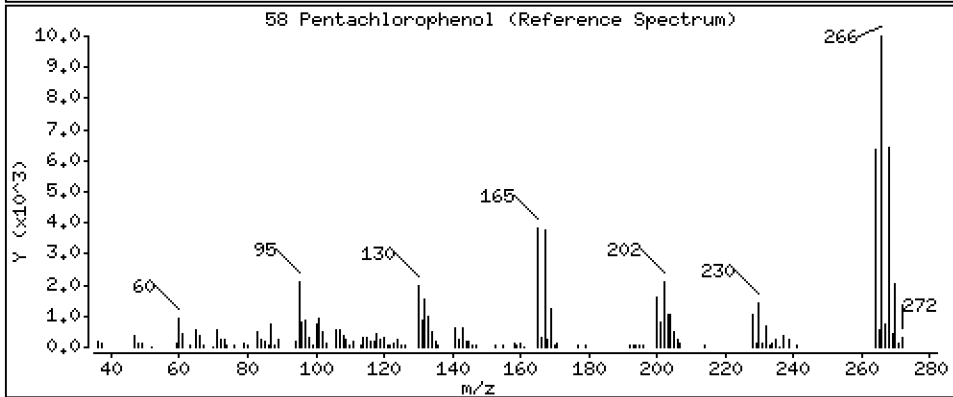
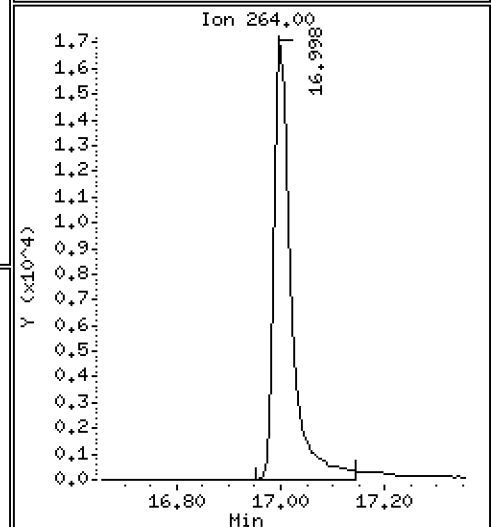
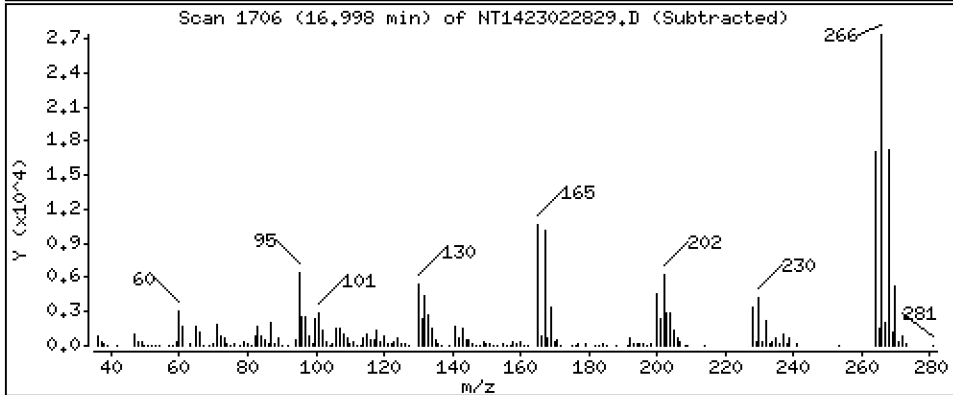
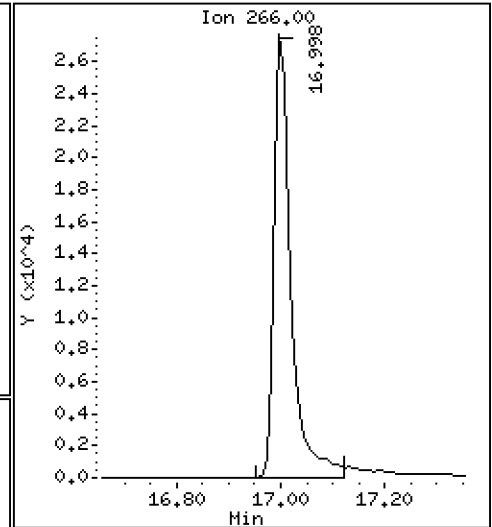
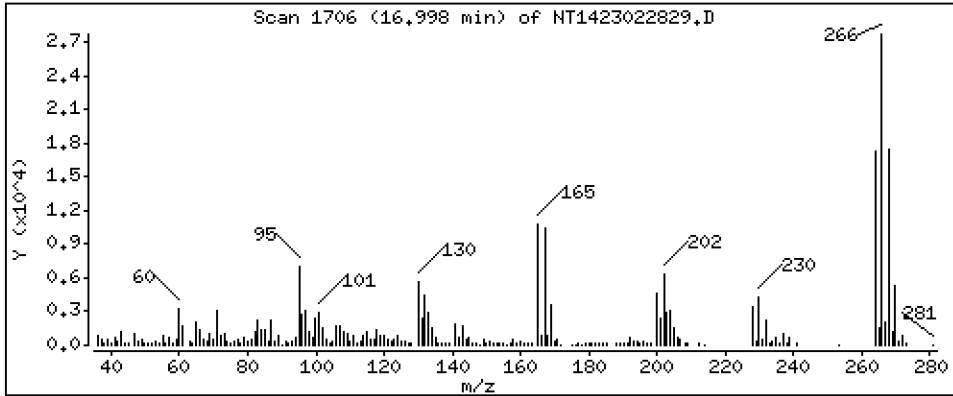
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

58 Pentachlorophenol

Concentration: 4.353 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

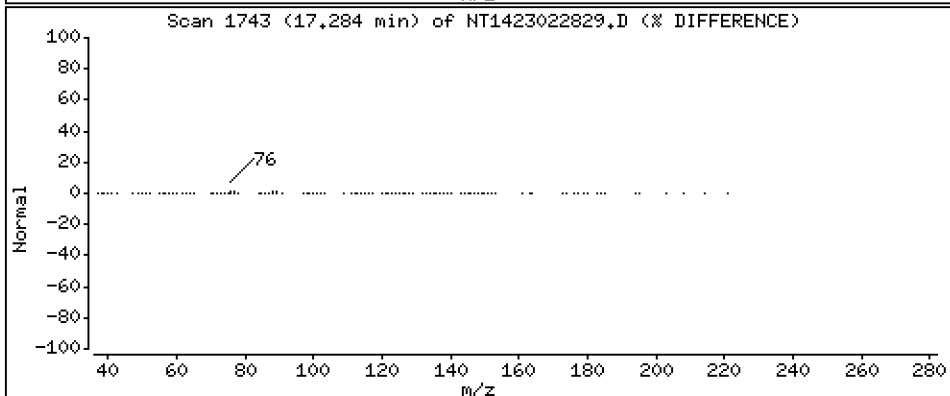
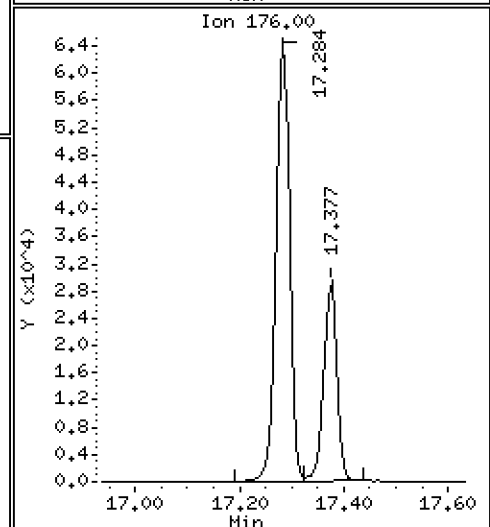
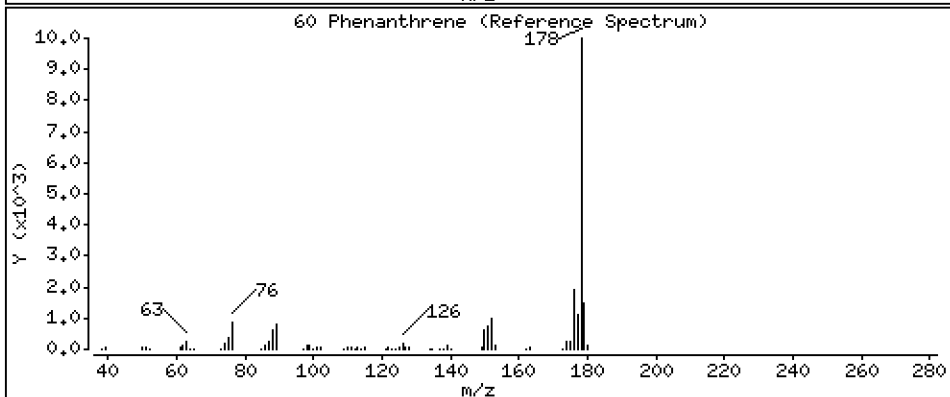
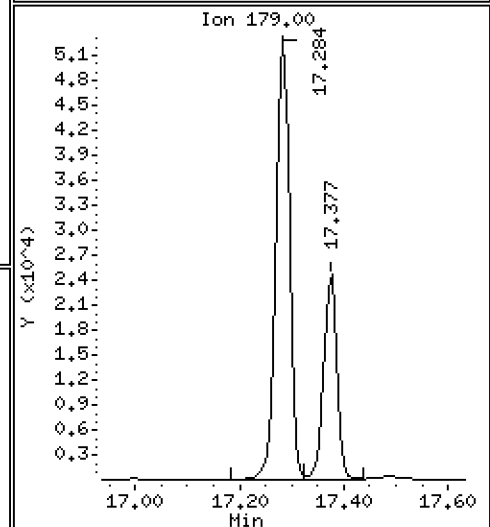
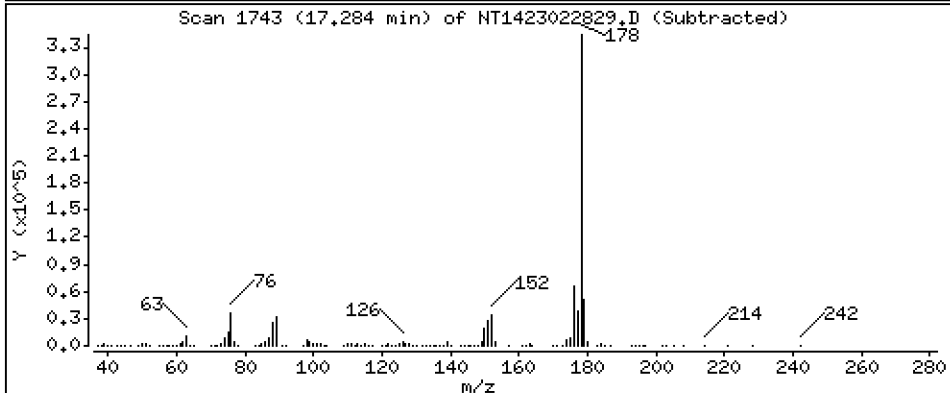
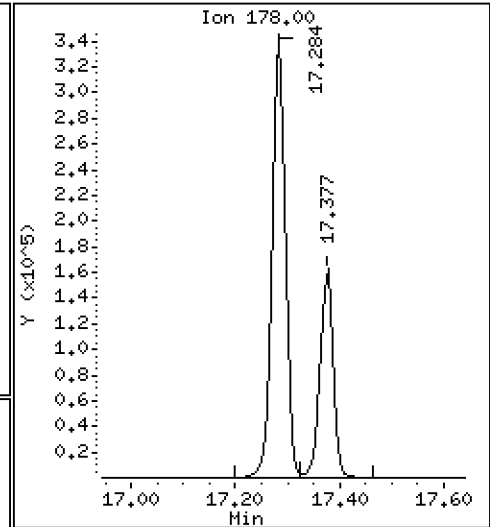
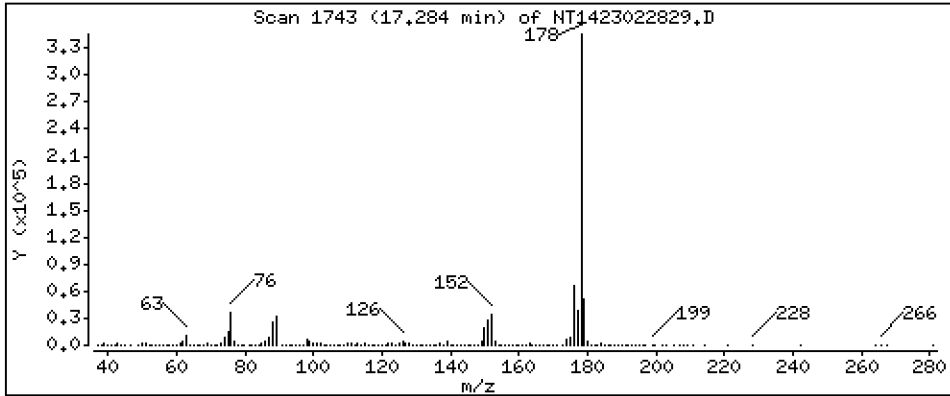
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,720 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

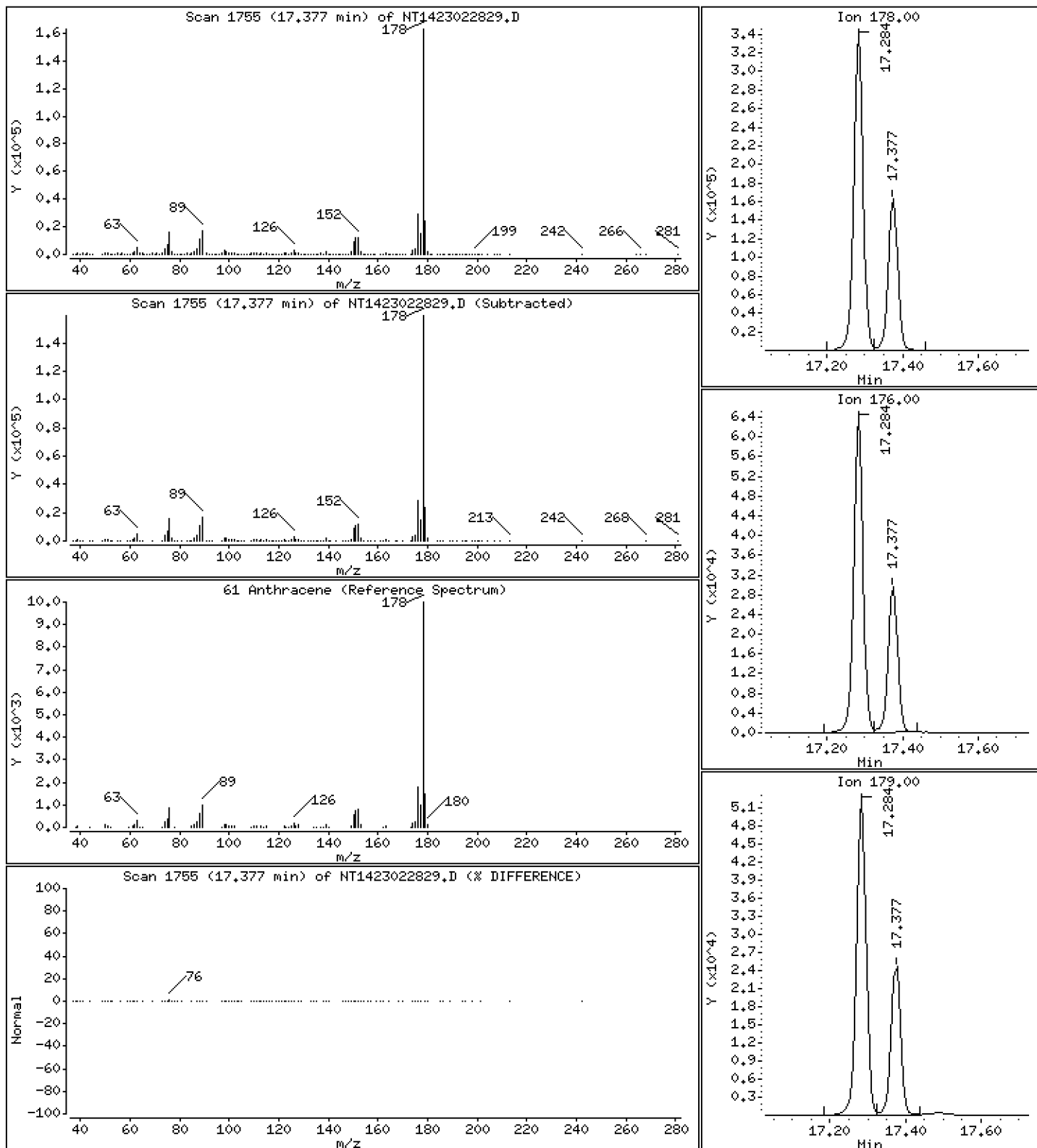
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 2,303 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

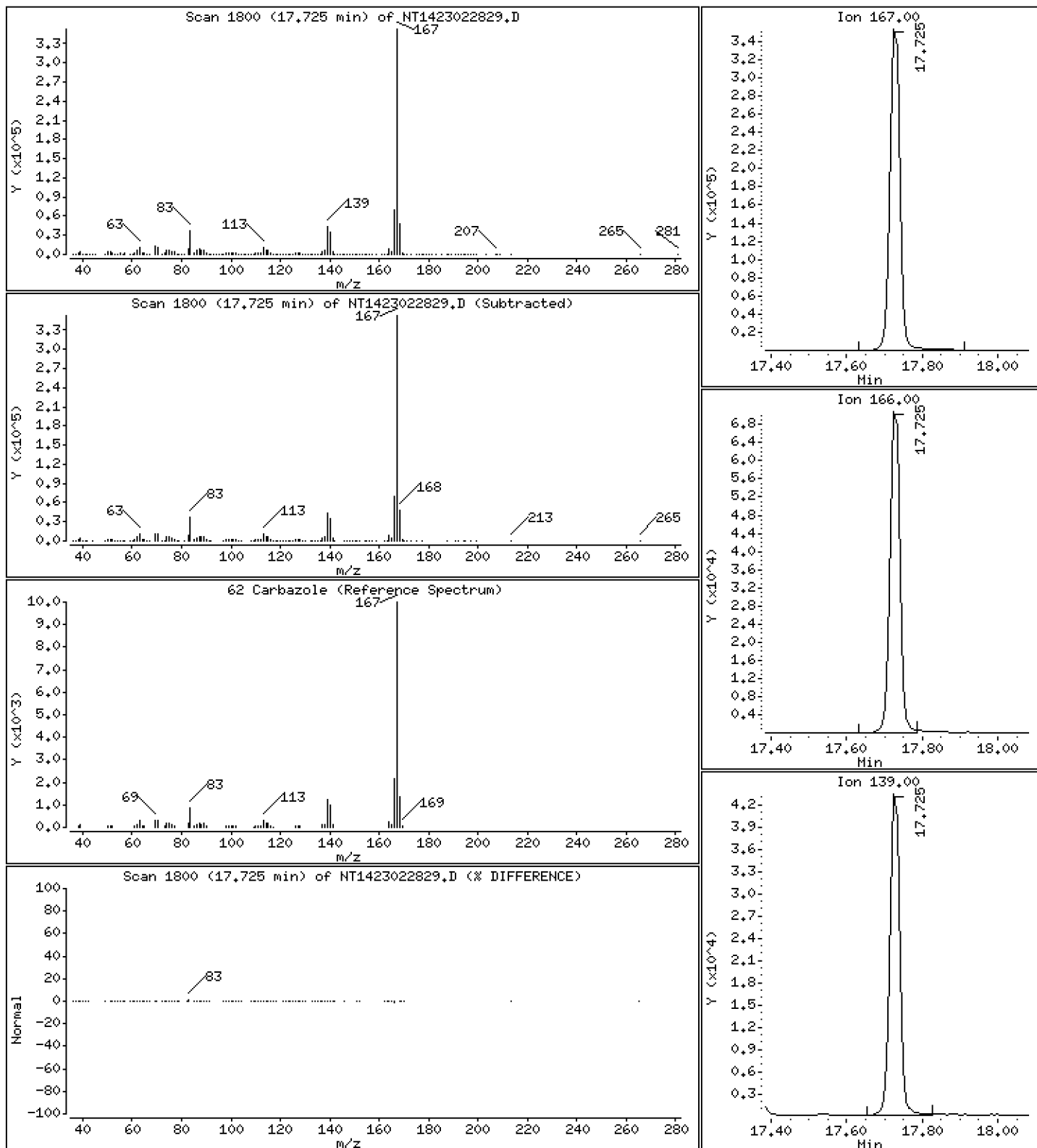
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 5,955 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

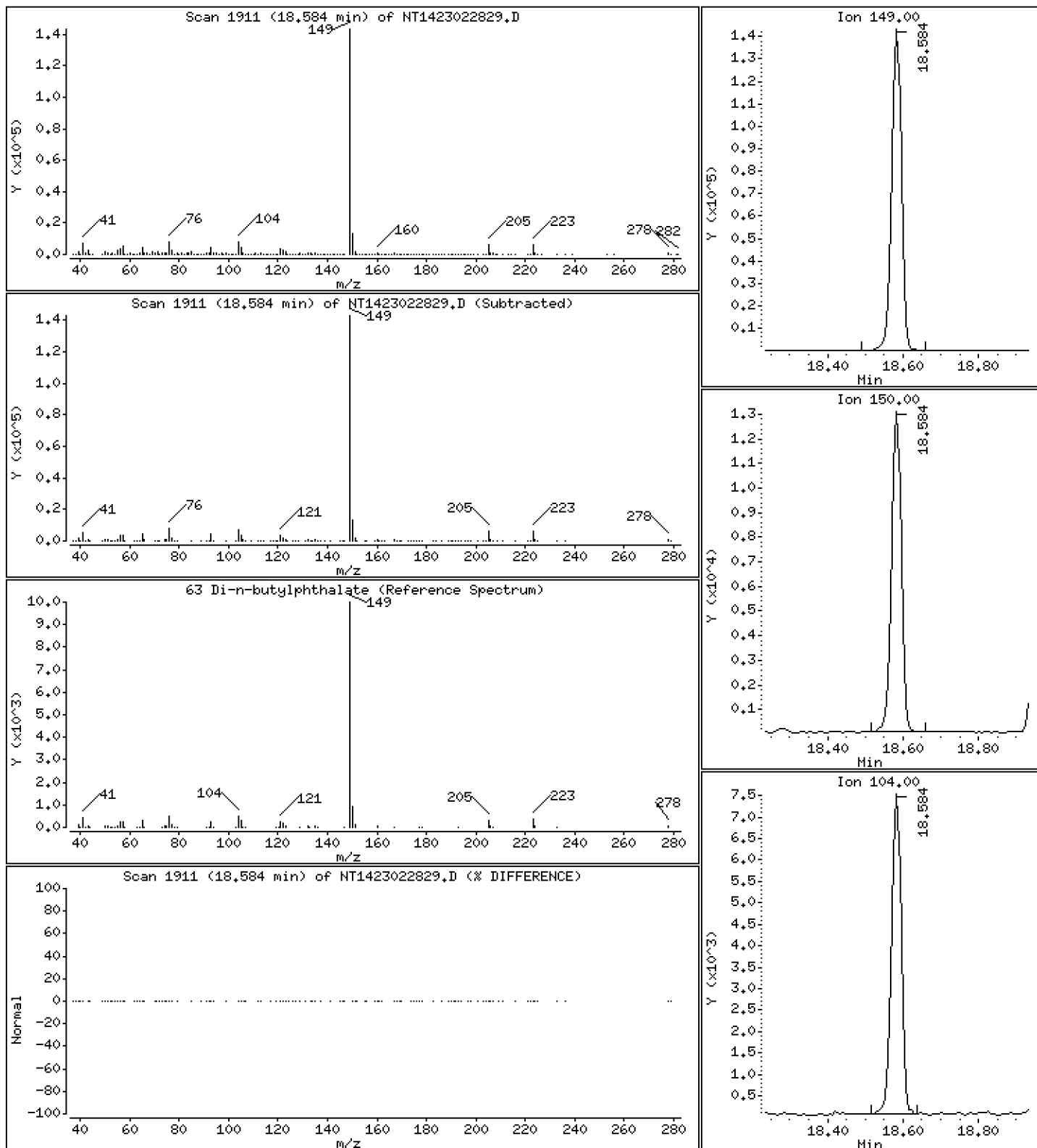
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 1,825 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

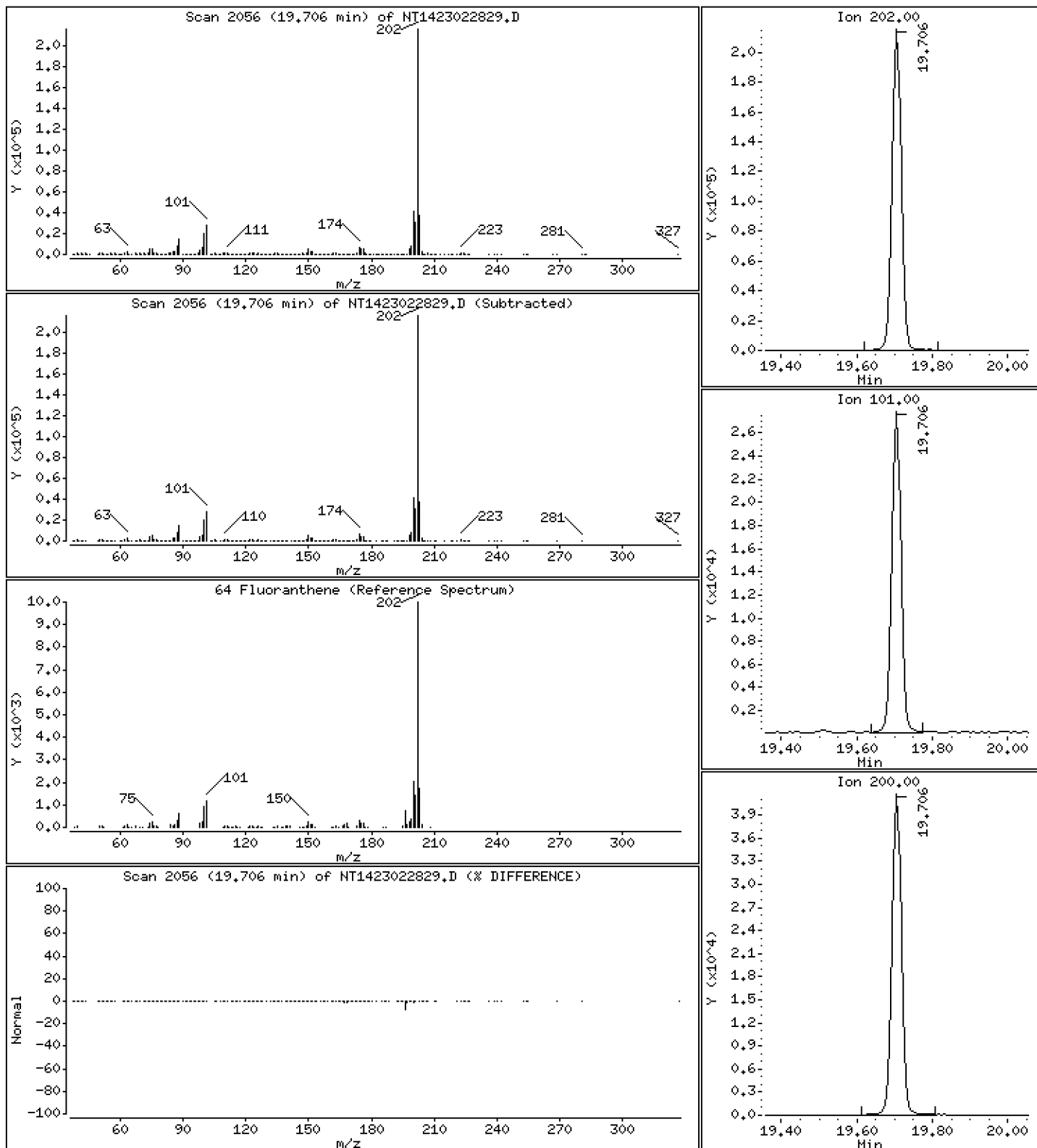
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 2,652 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

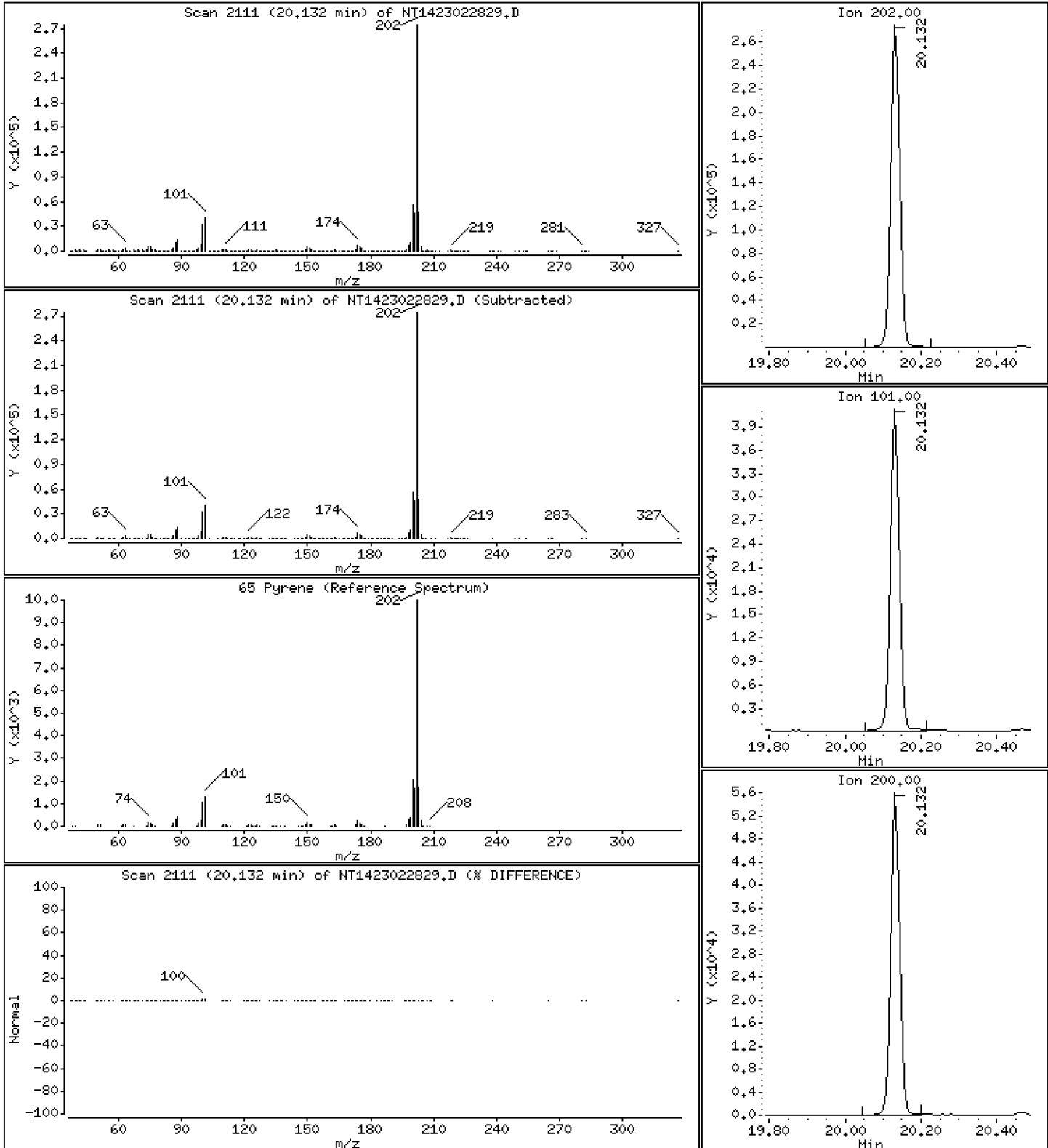
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 3,163 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

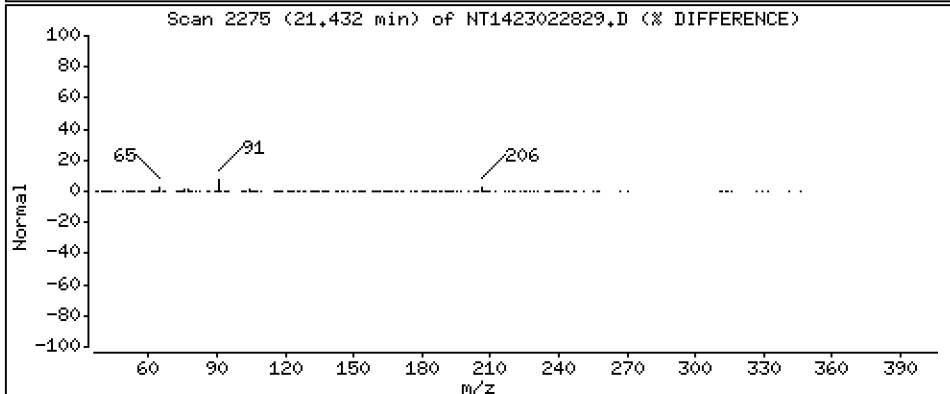
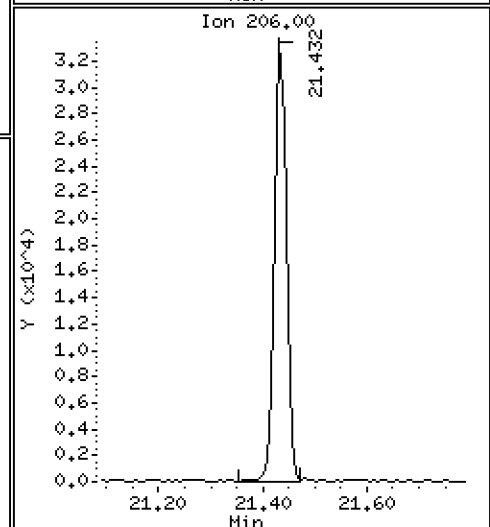
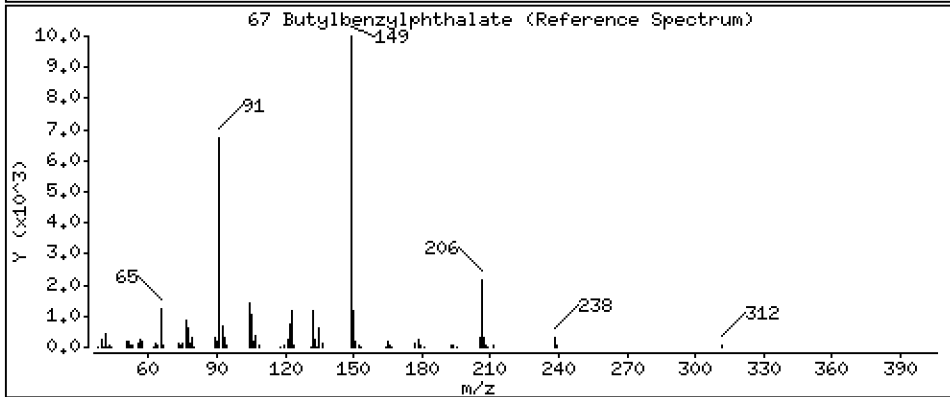
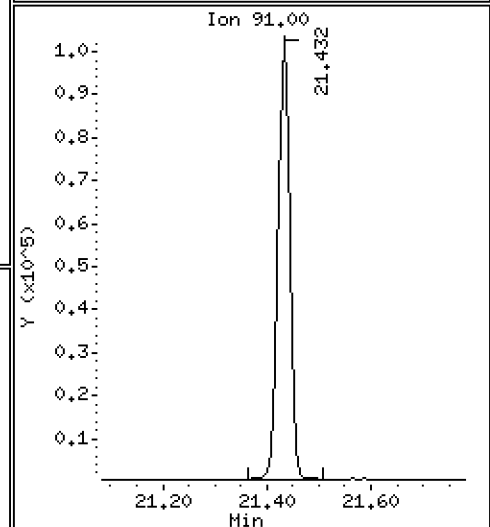
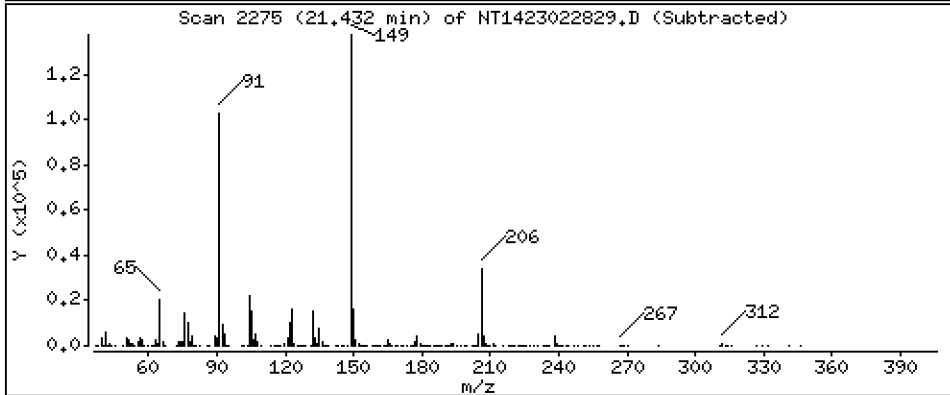
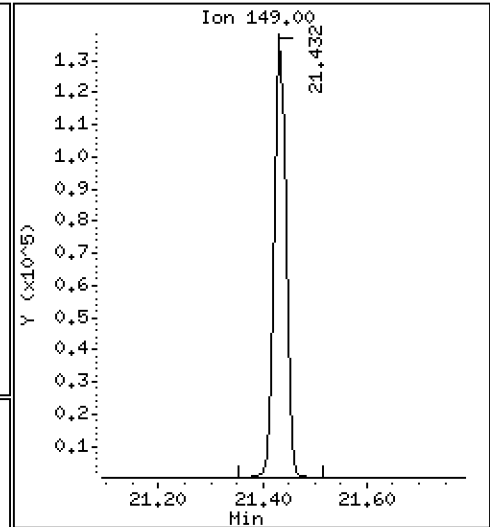
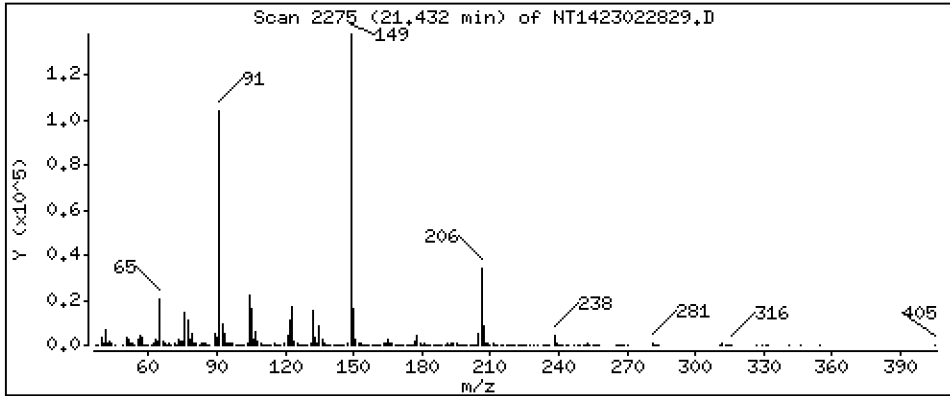
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,194 ug/mL





Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

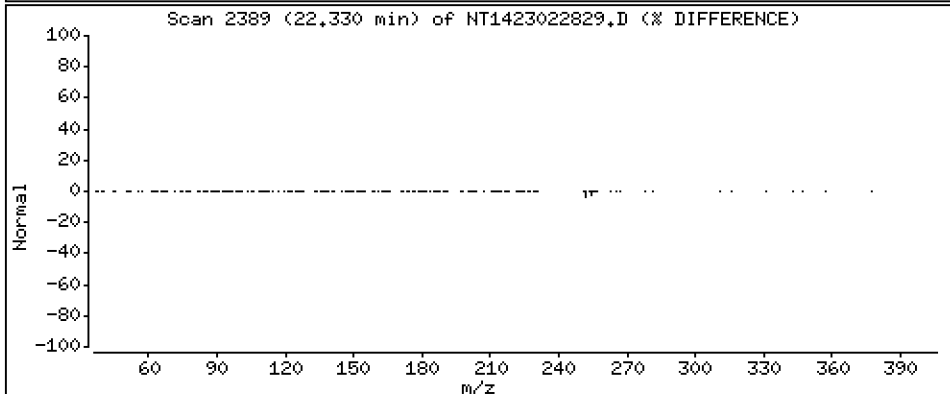
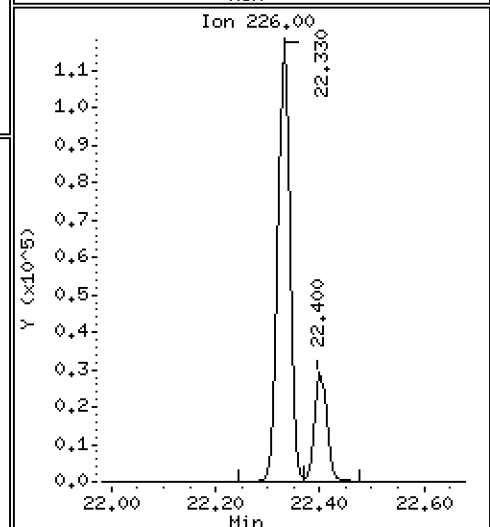
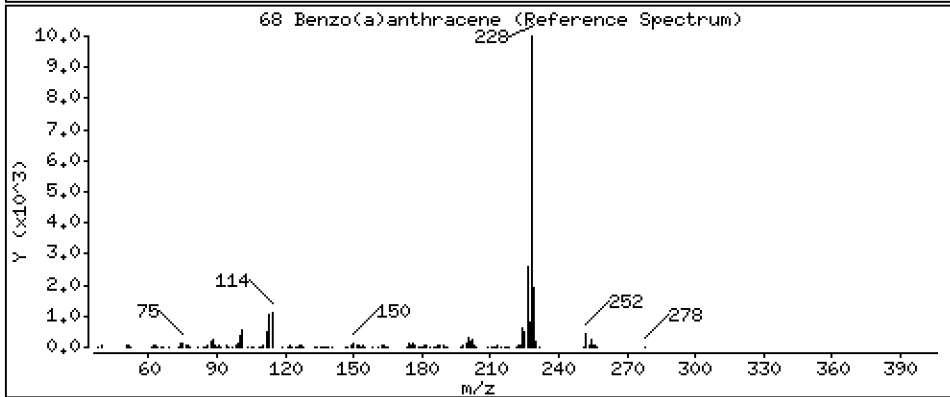
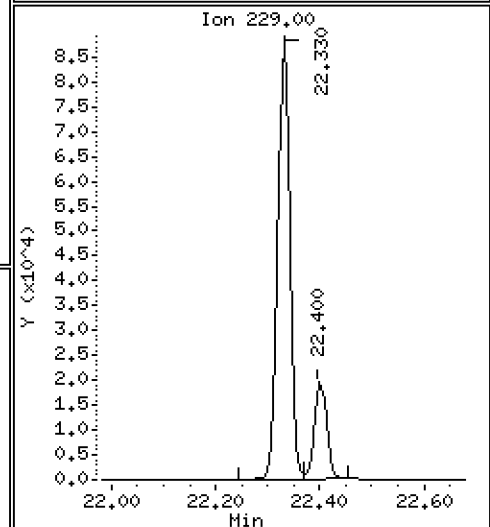
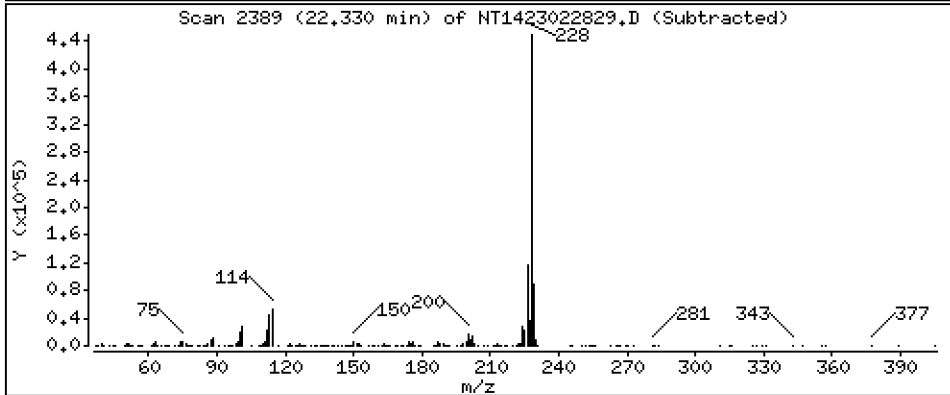
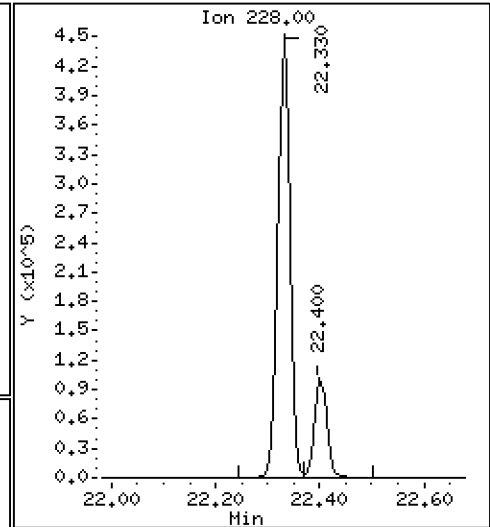
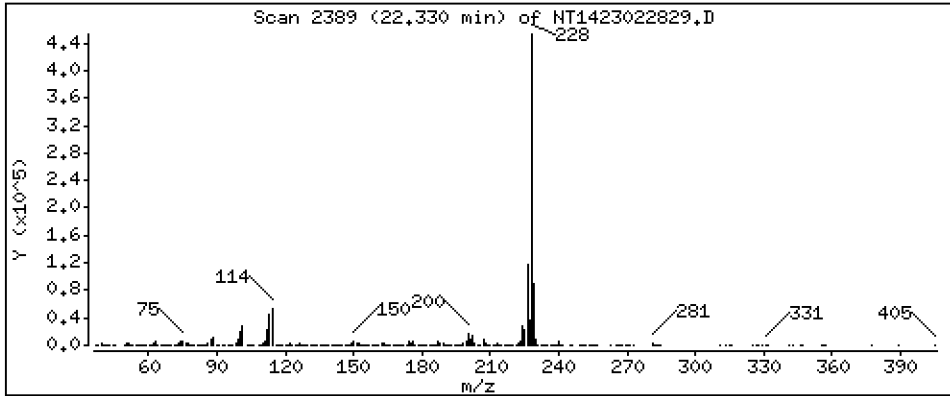
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 5,921 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

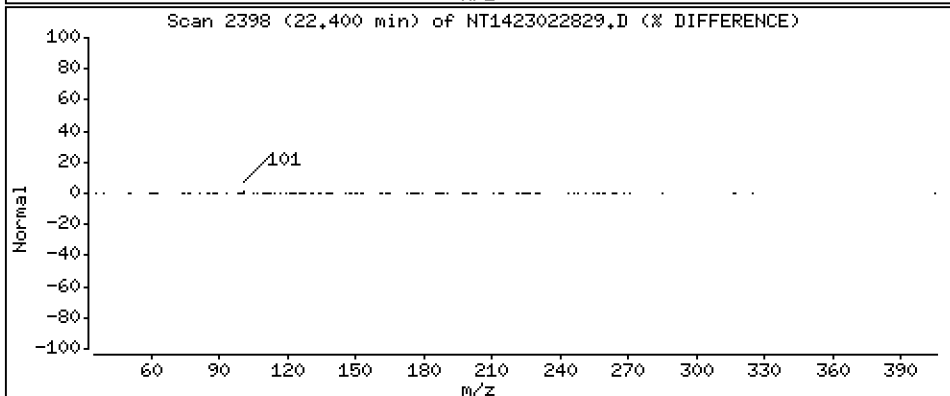
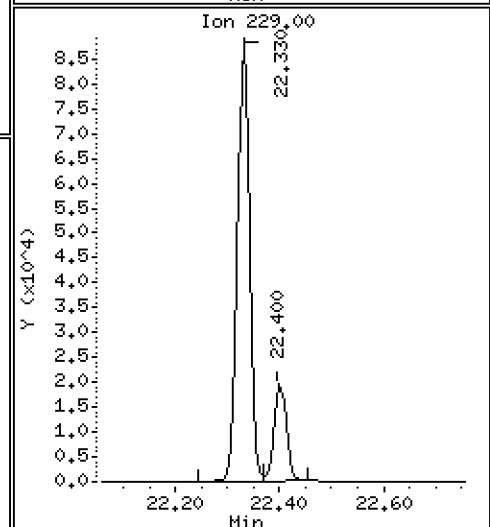
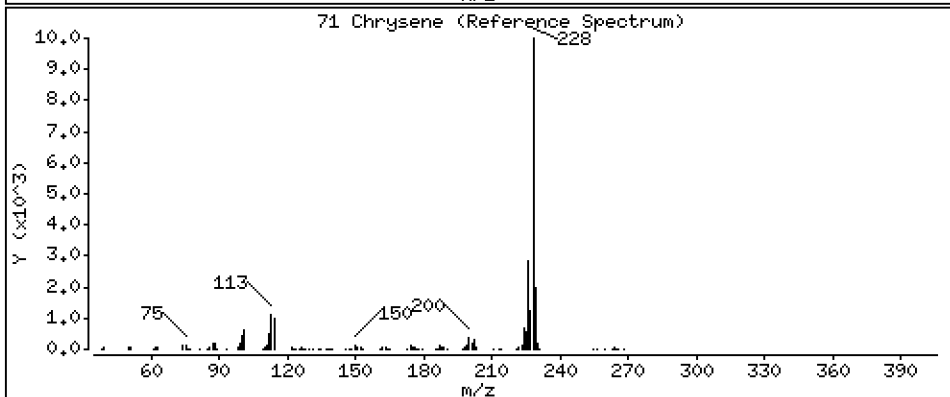
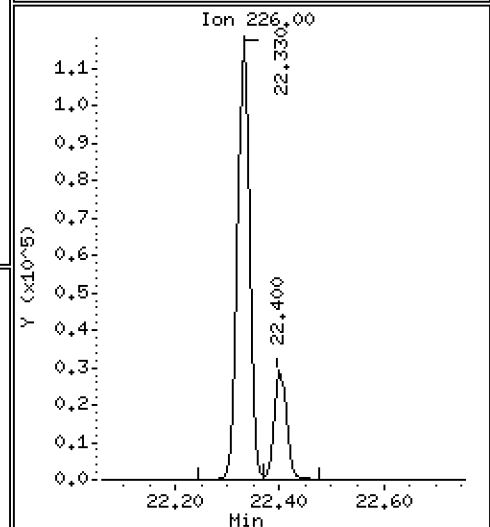
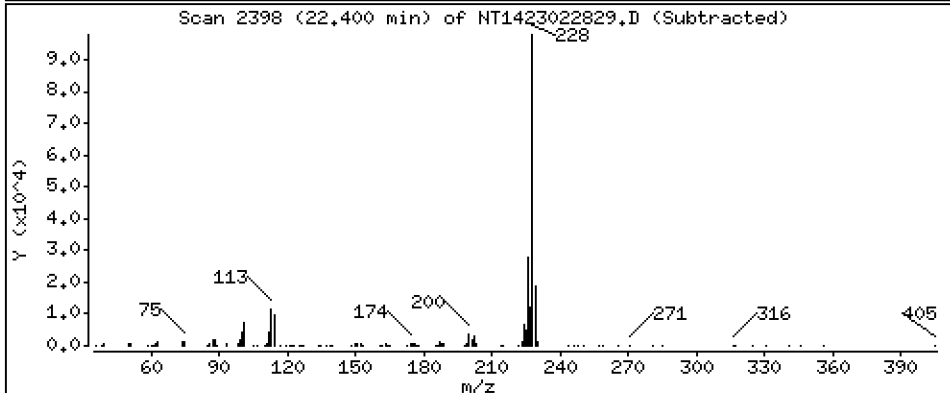
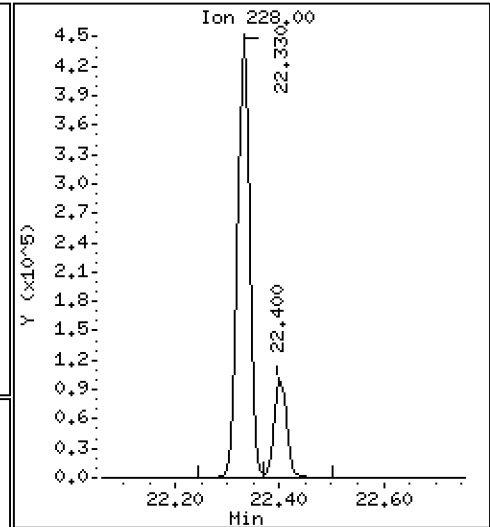
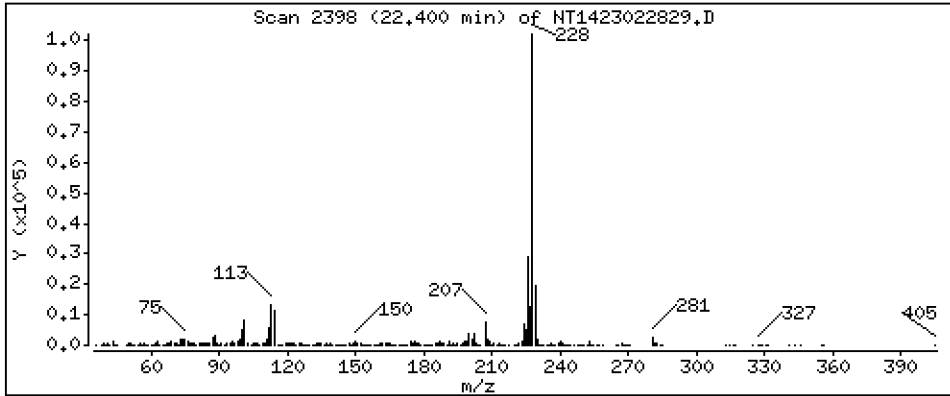
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 1,424 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

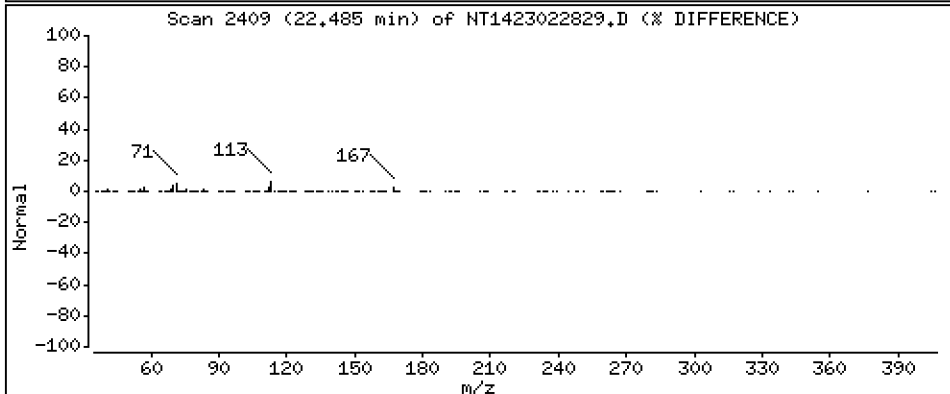
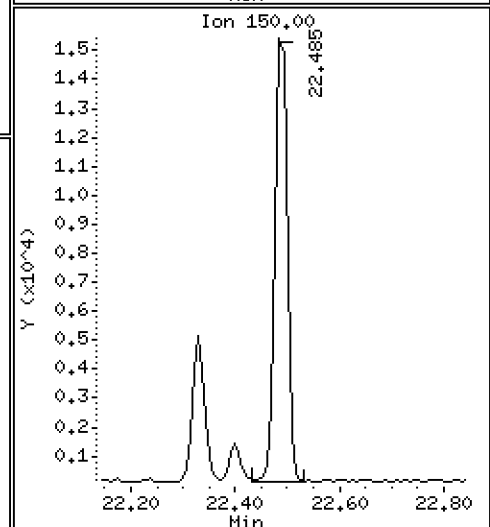
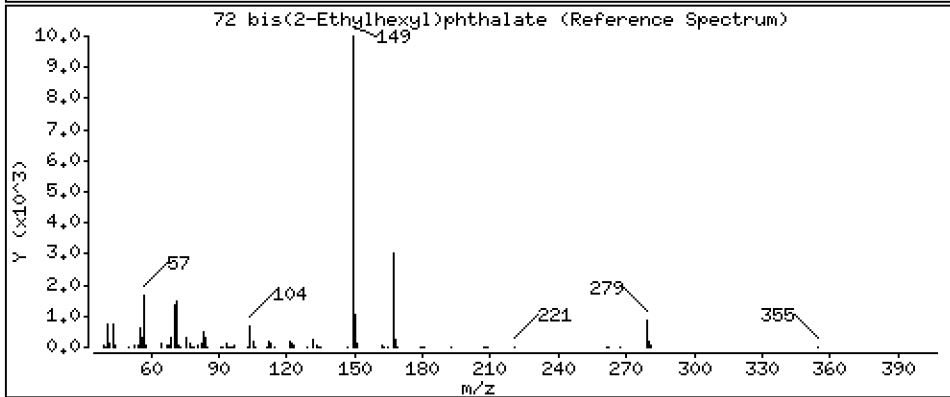
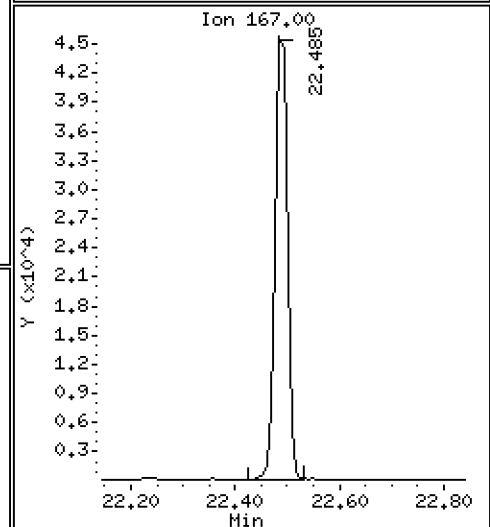
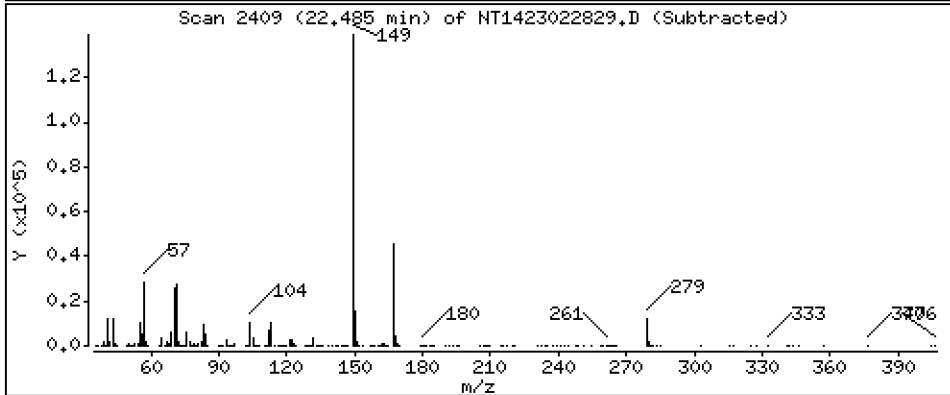
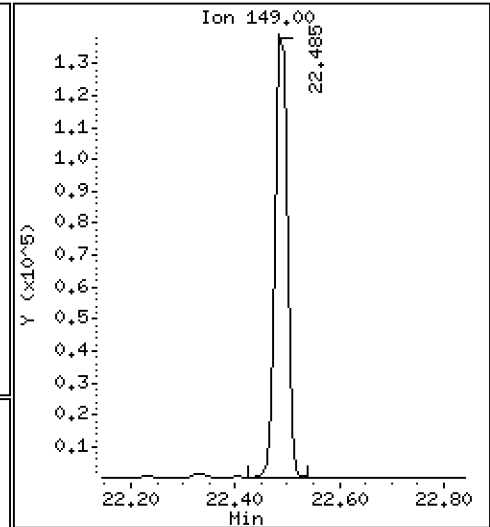
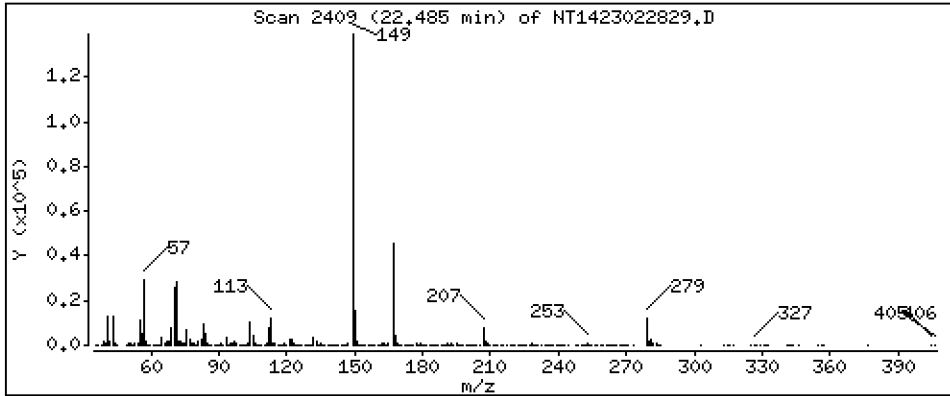
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 2,617 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

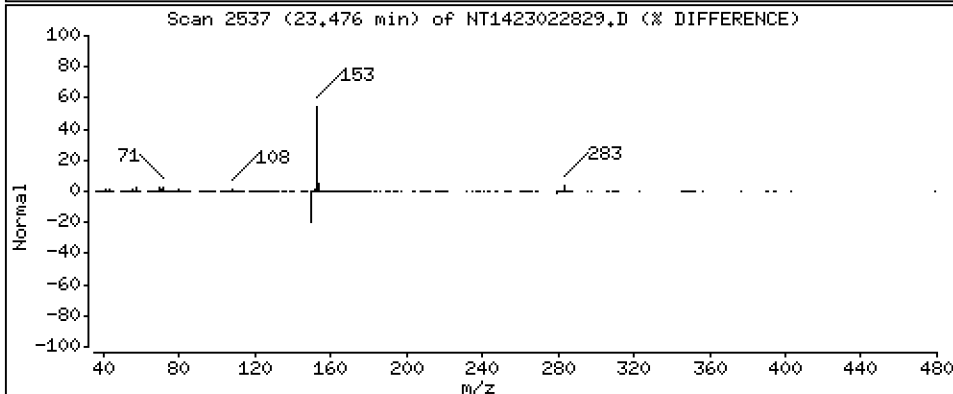
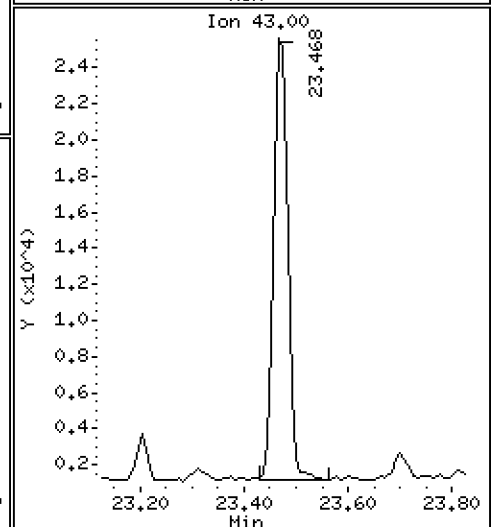
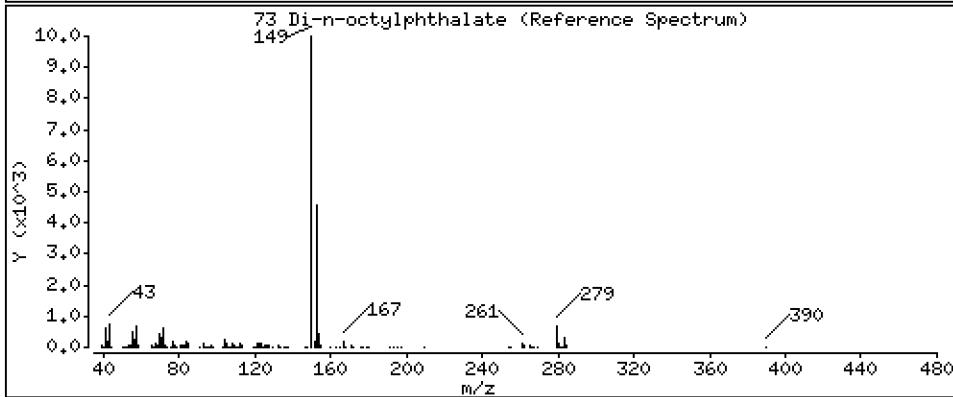
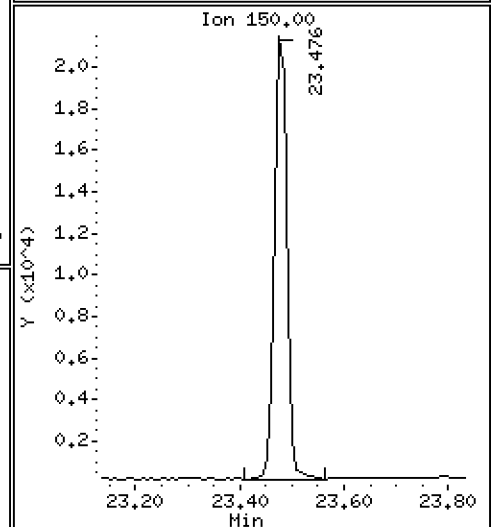
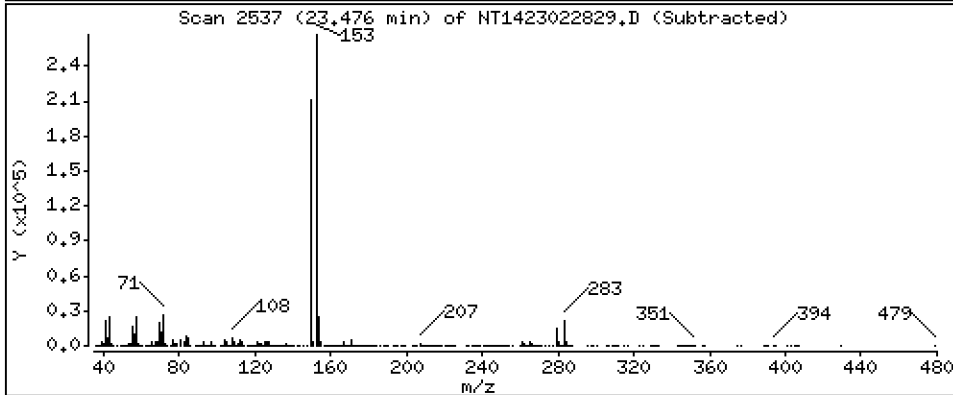
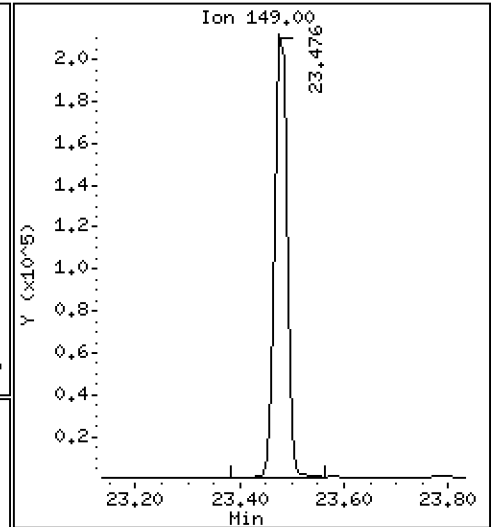
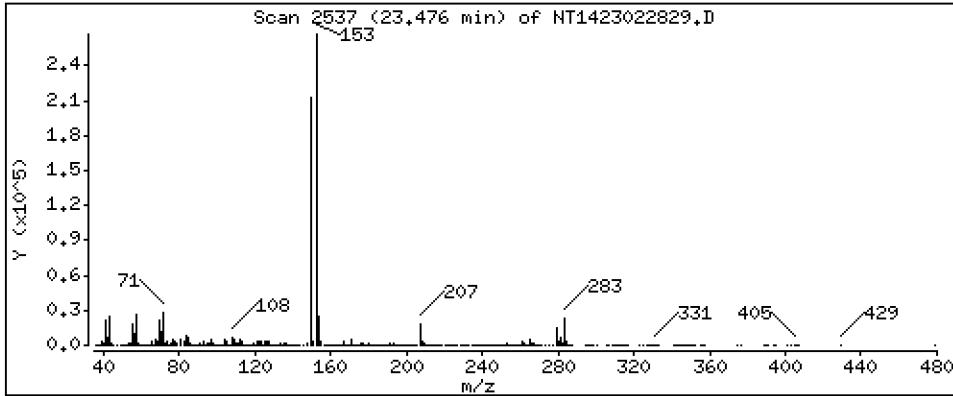
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 2,359 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

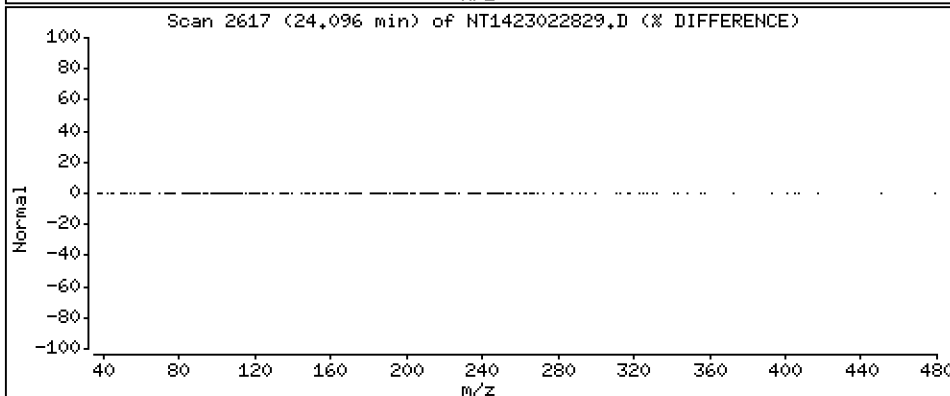
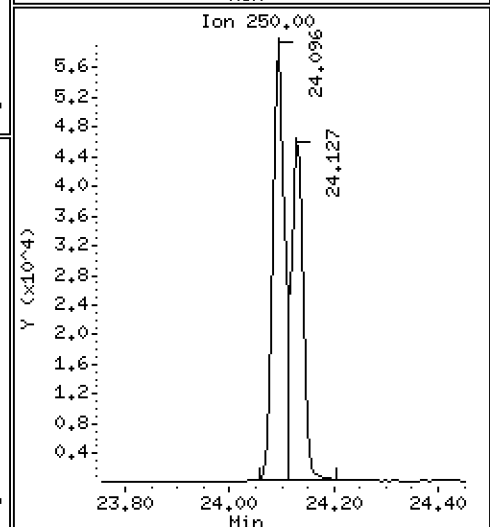
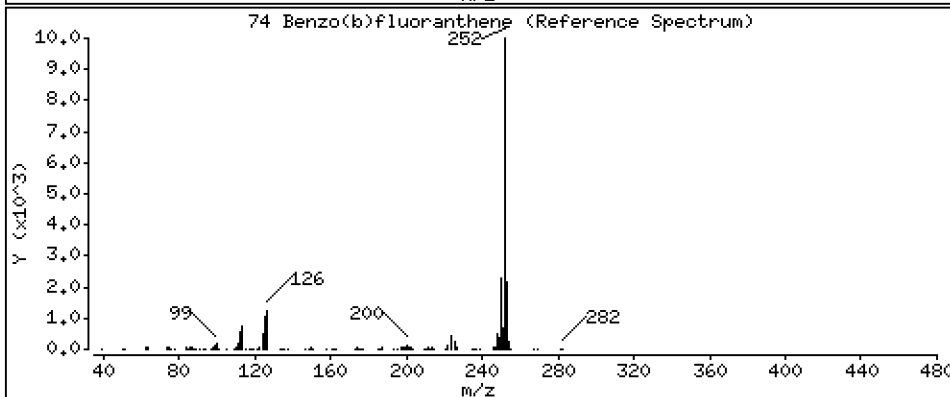
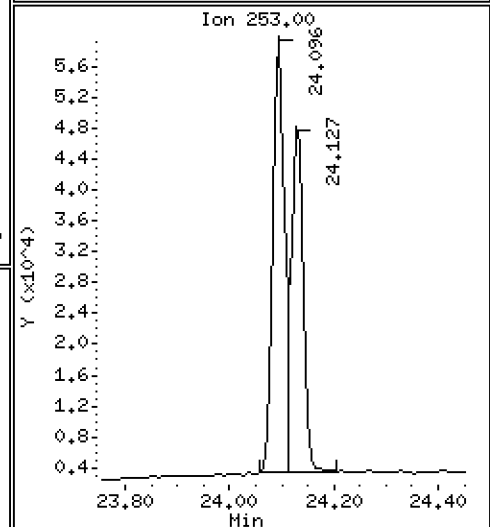
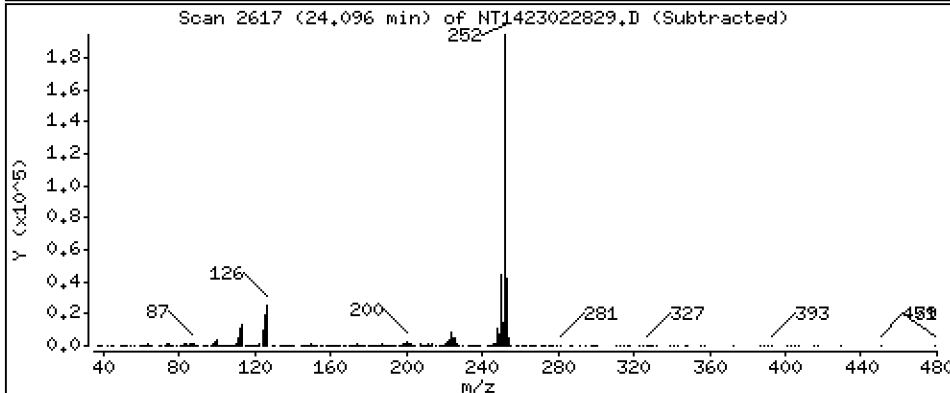
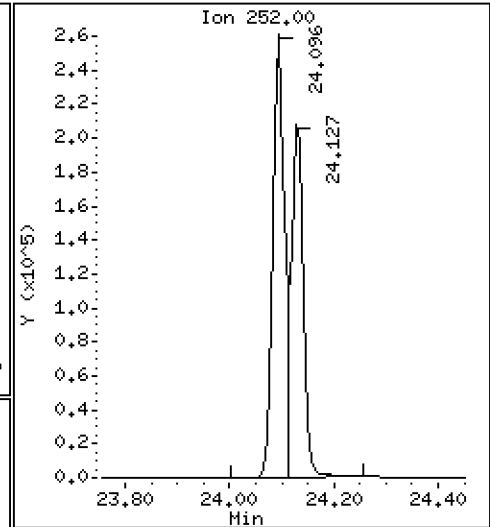
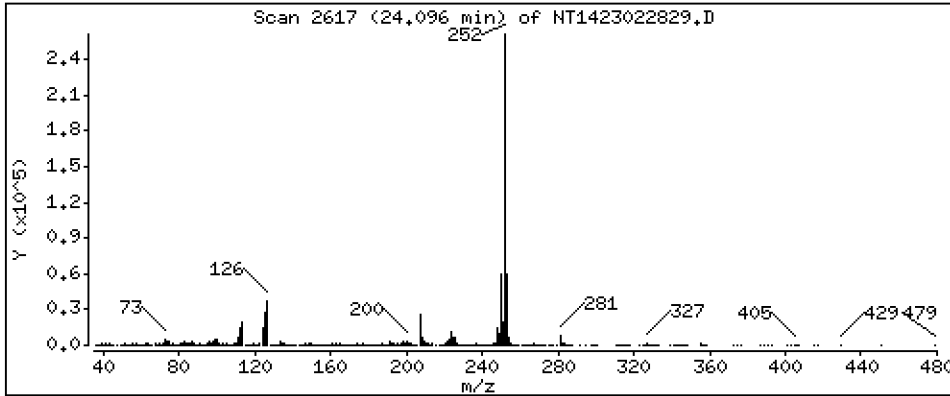
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 2,969 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

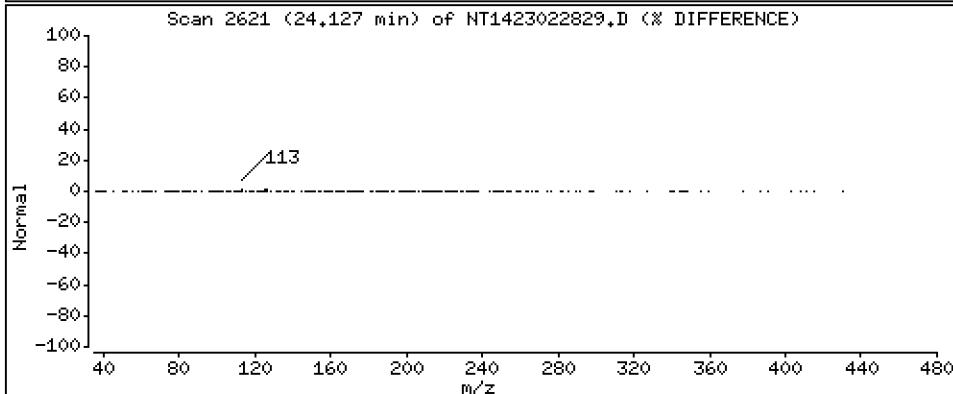
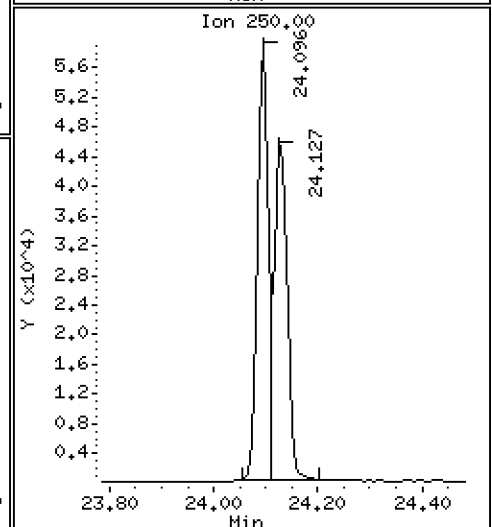
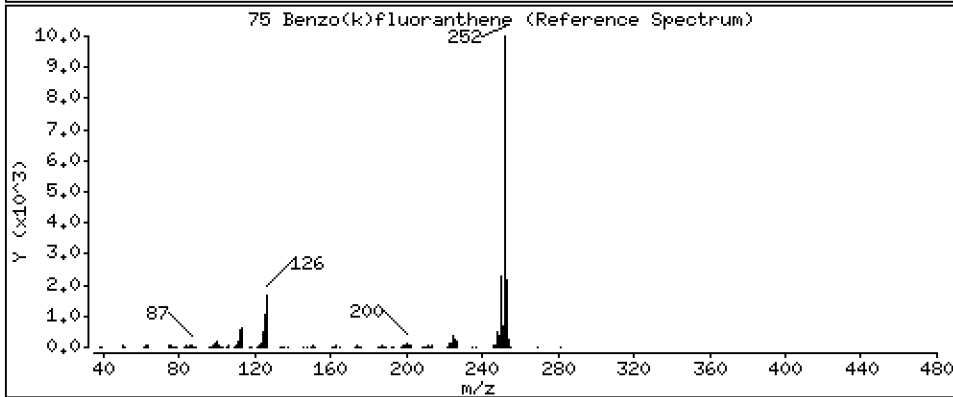
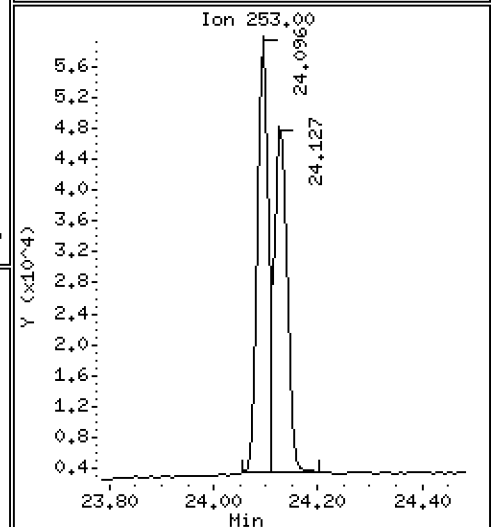
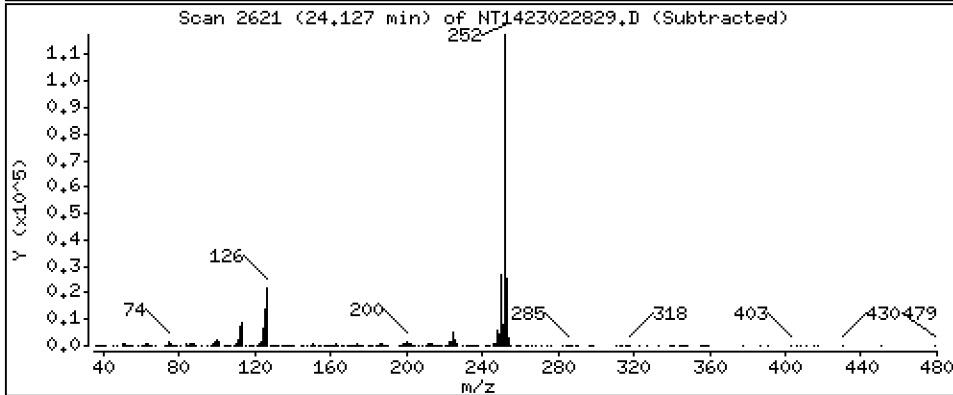
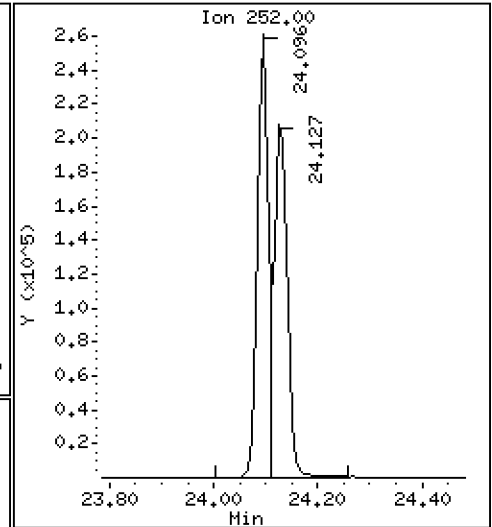
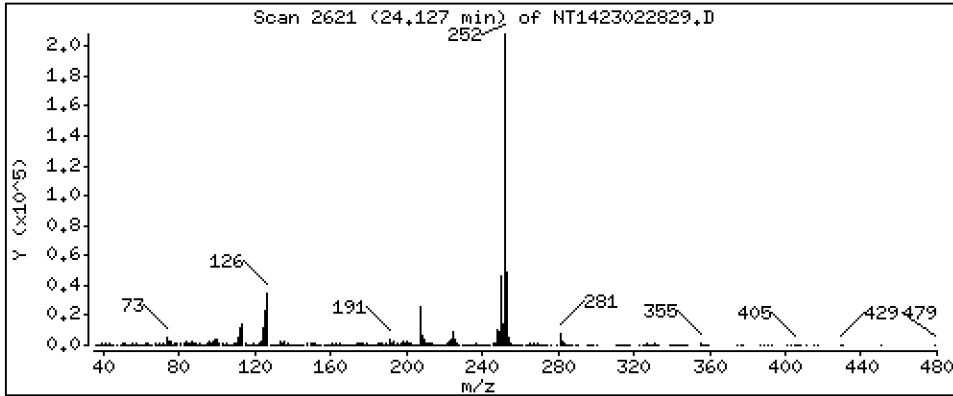
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 2,522 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

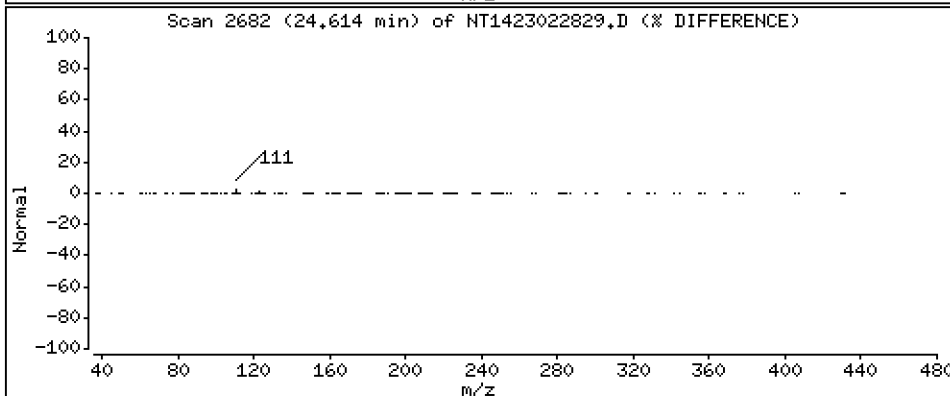
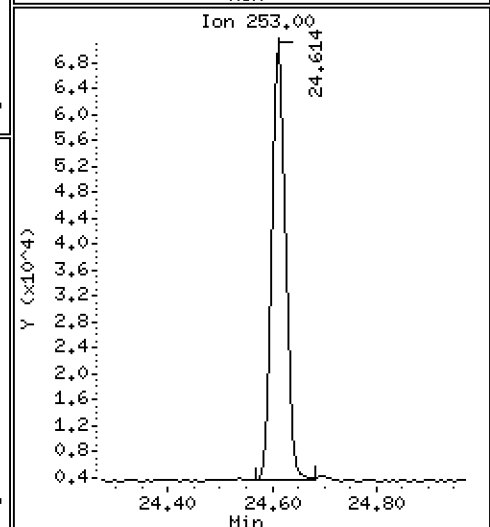
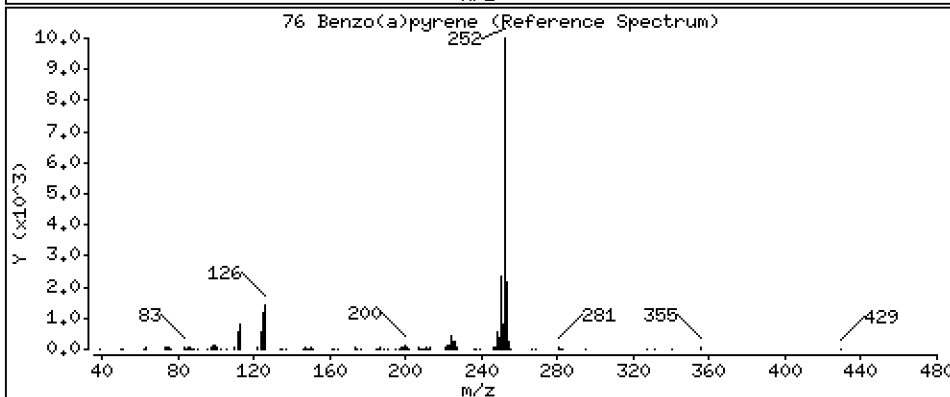
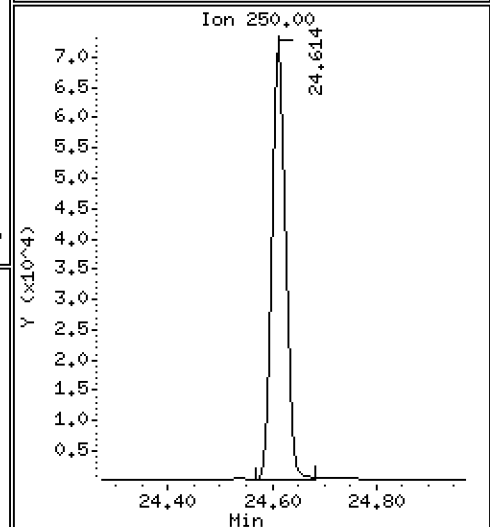
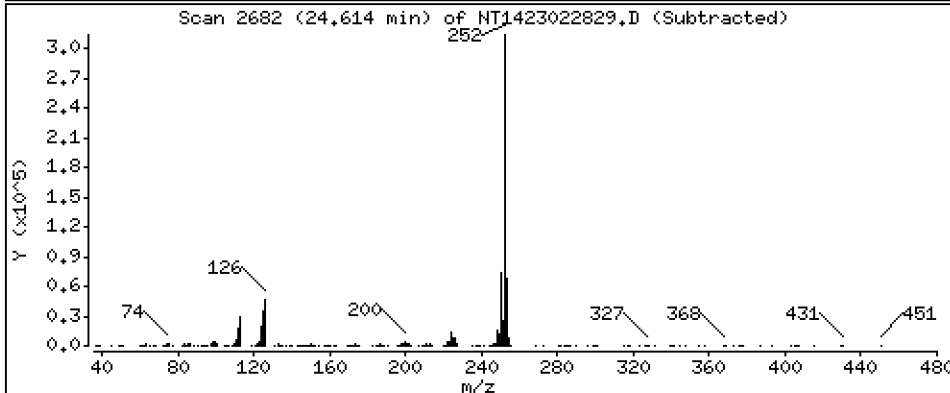
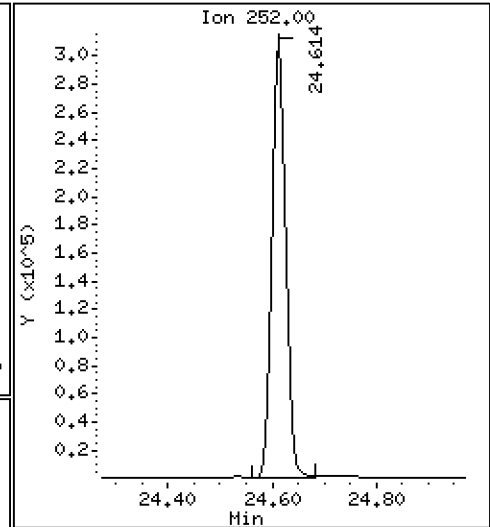
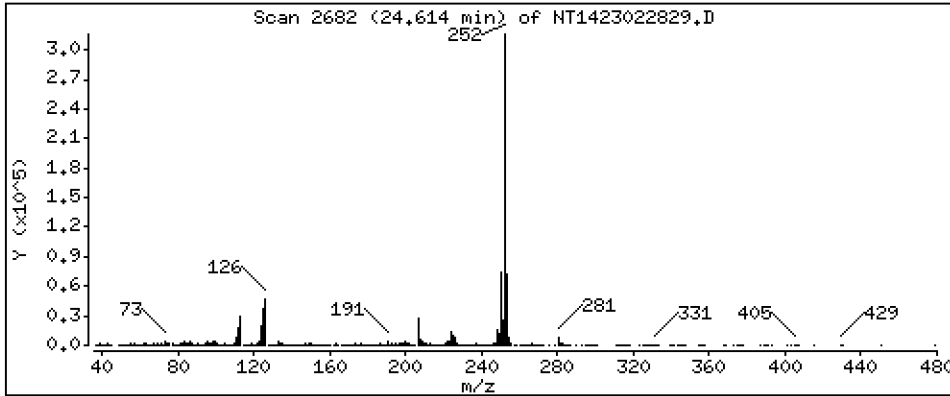
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,740 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

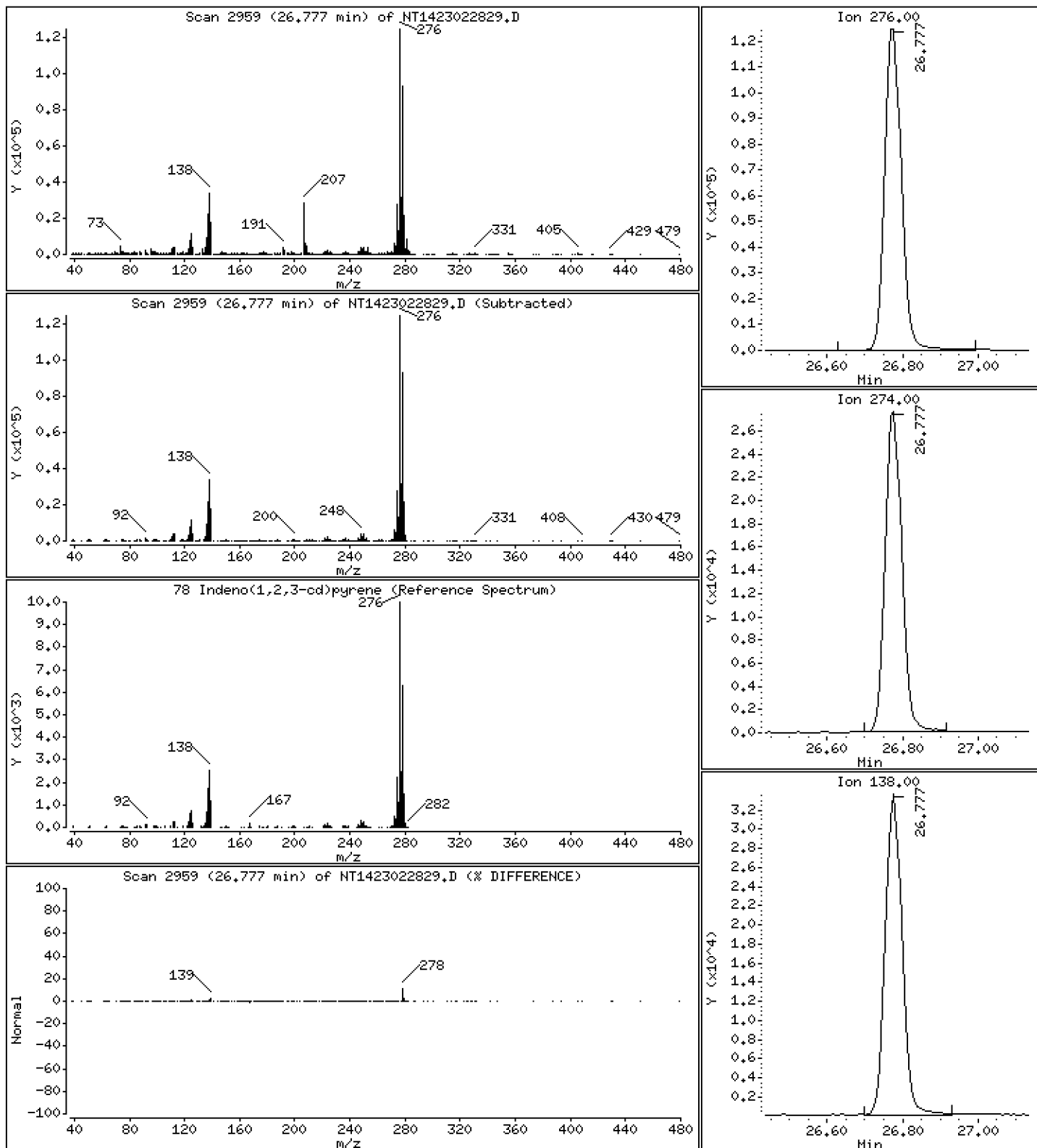
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 2,611 ug/mL





Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

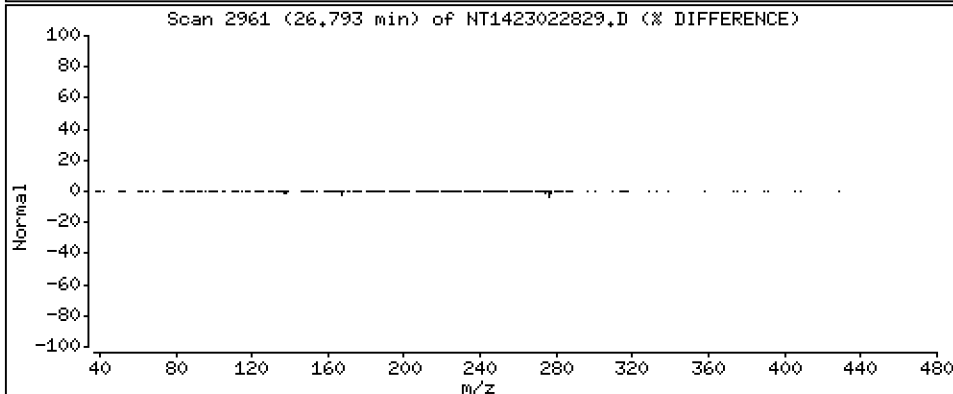
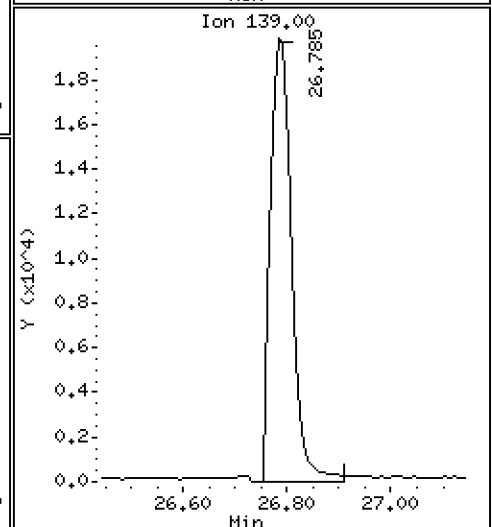
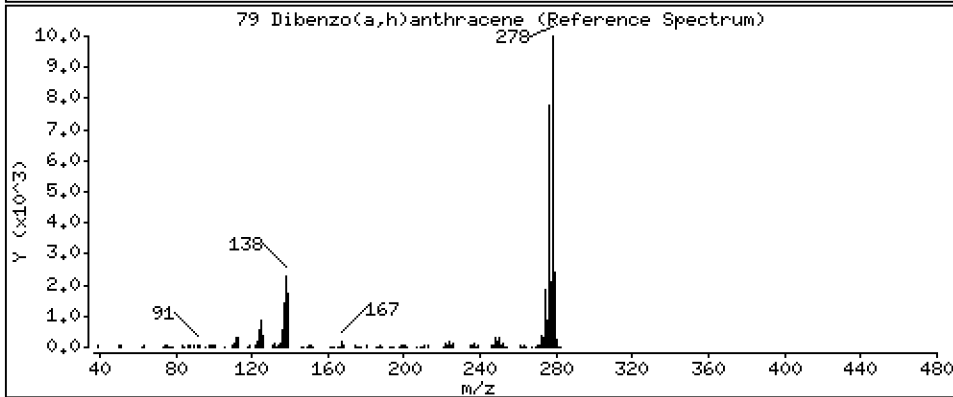
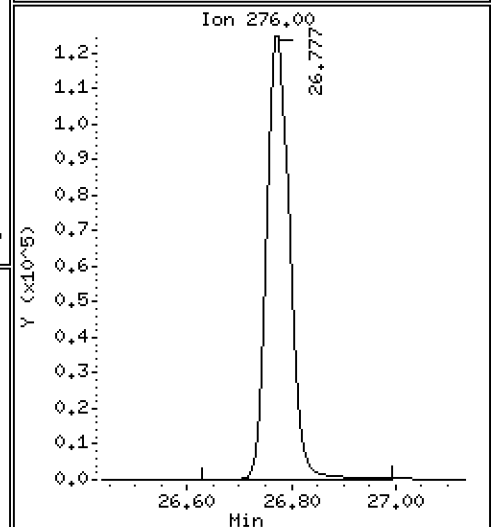
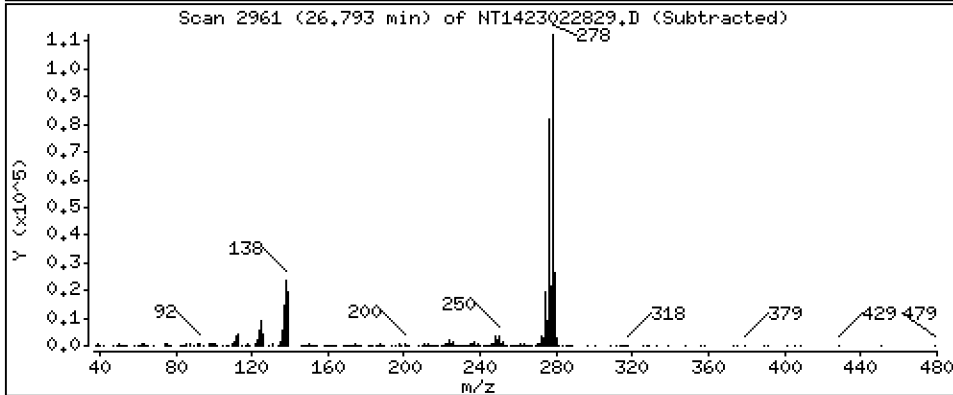
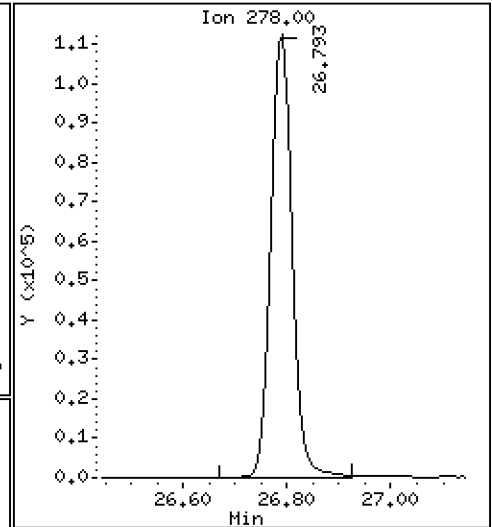
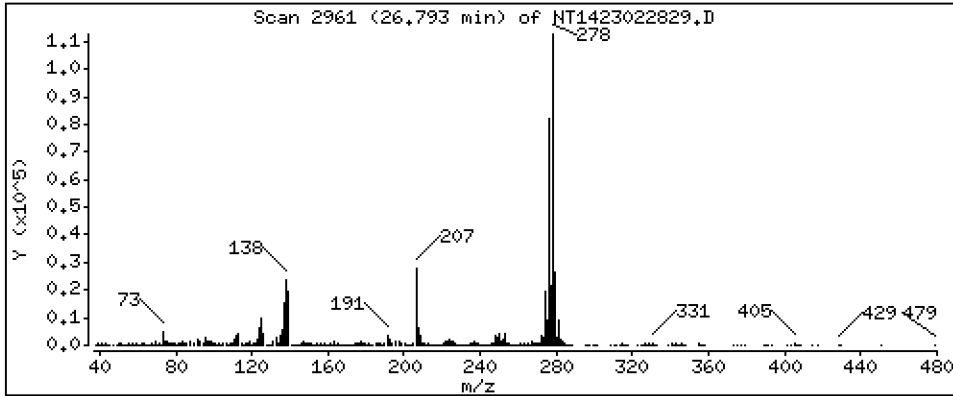
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 2,515 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

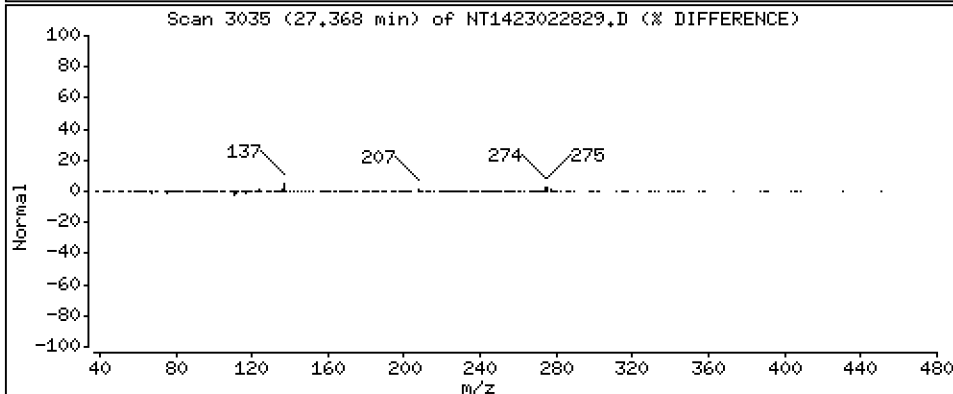
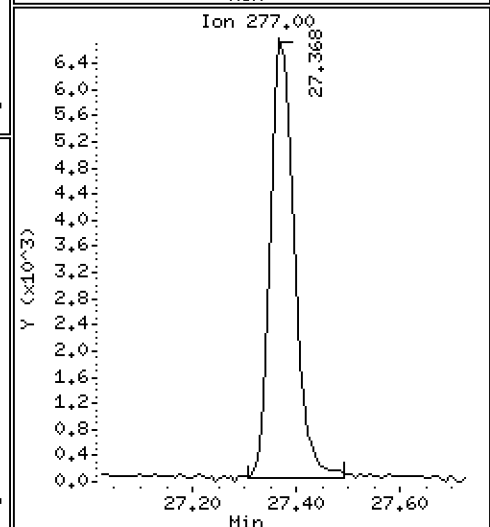
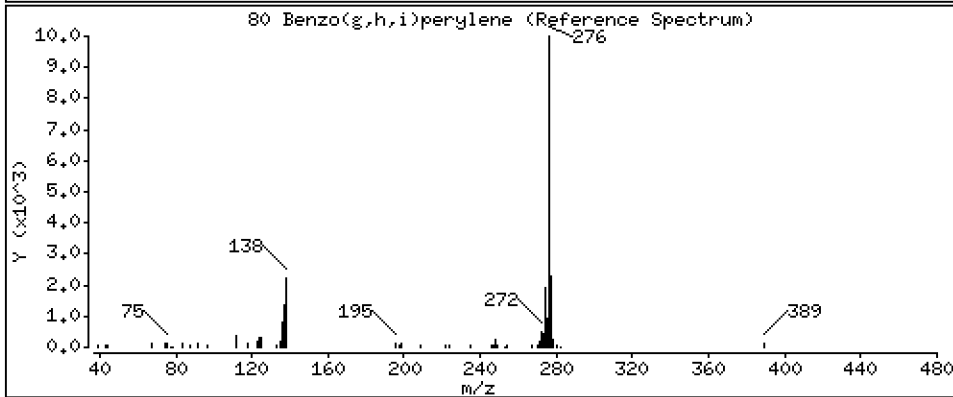
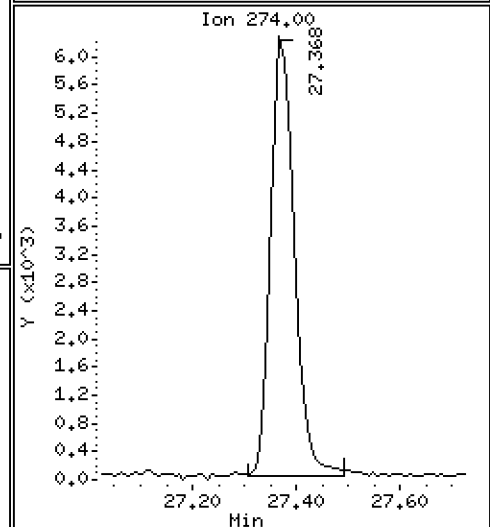
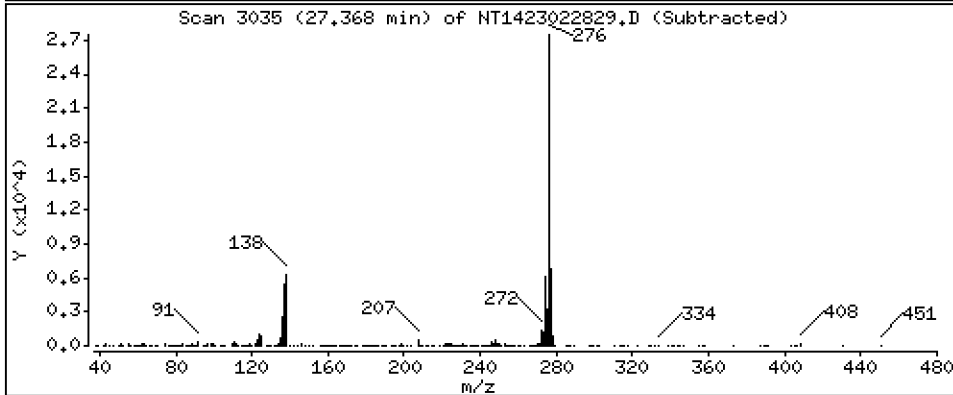
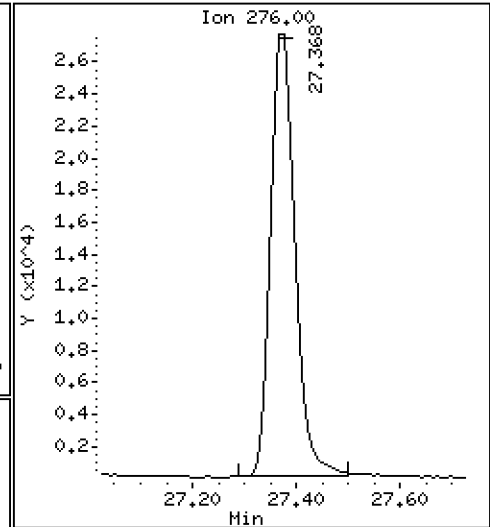
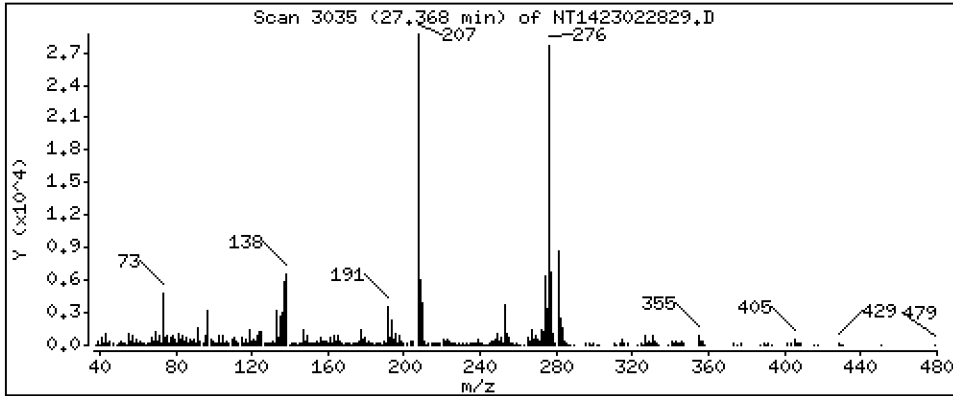
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,6887 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

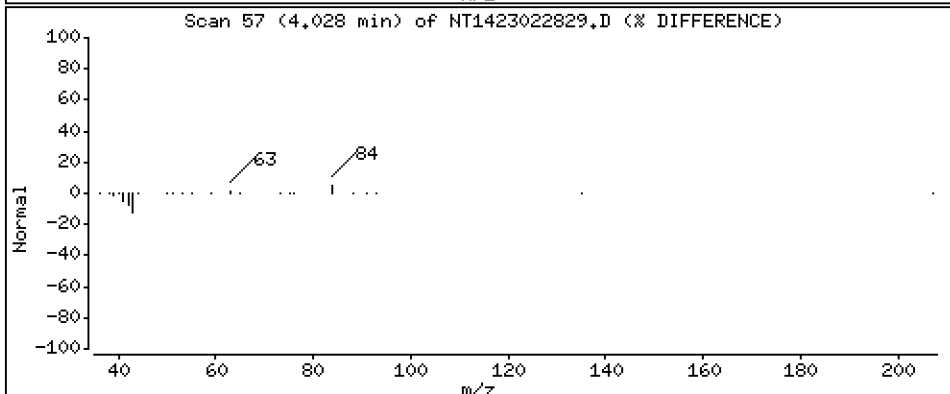
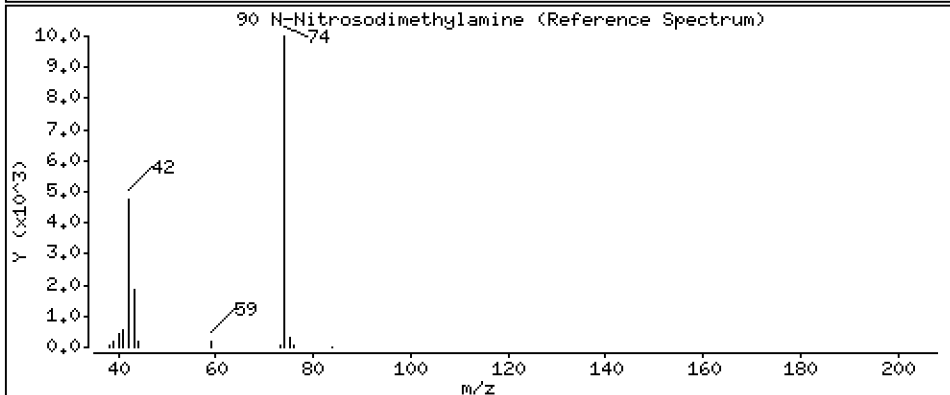
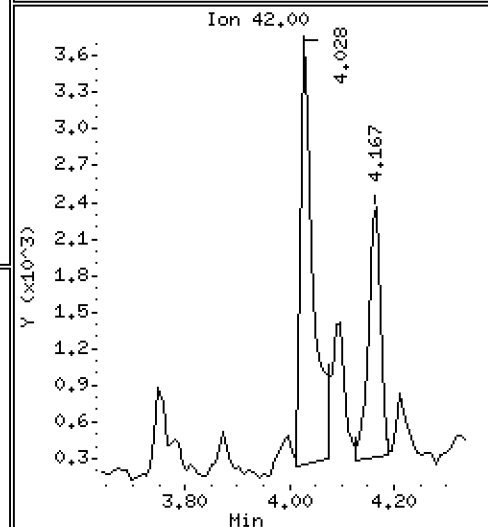
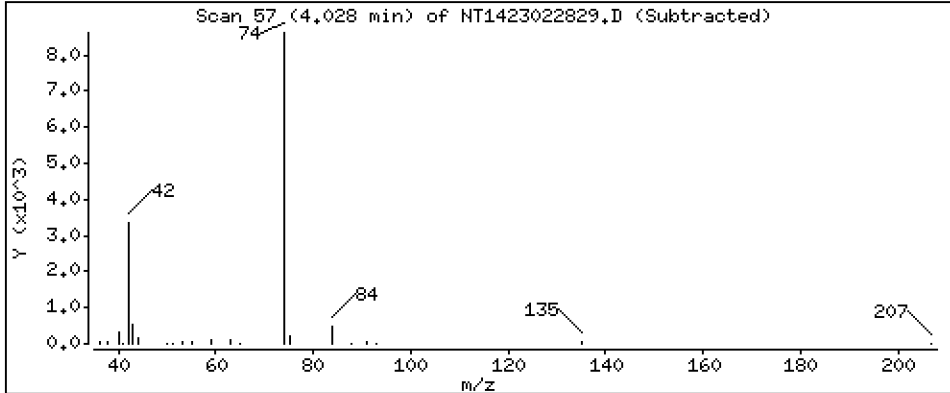
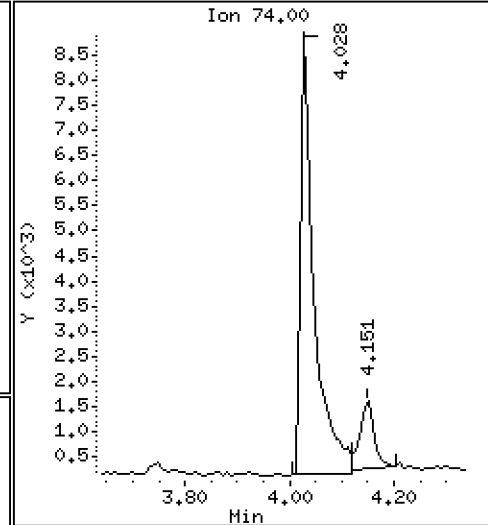
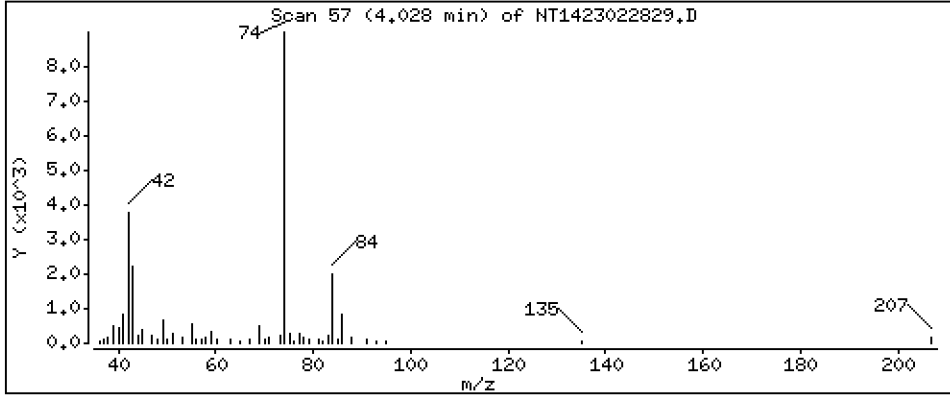
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,6769 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

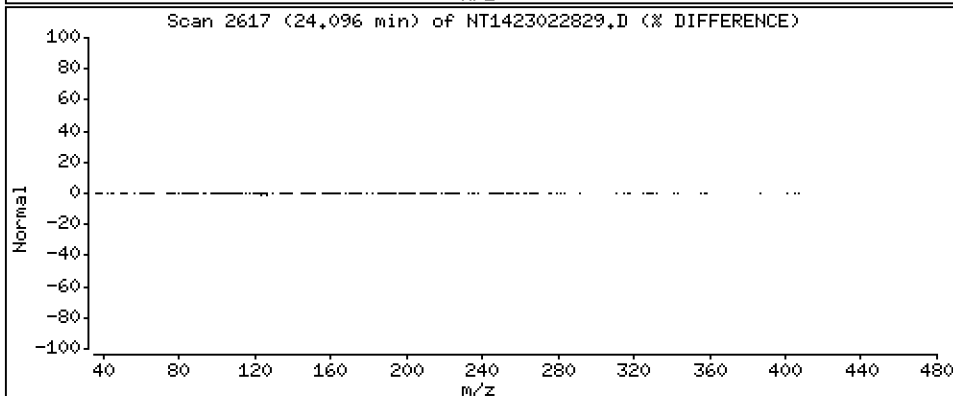
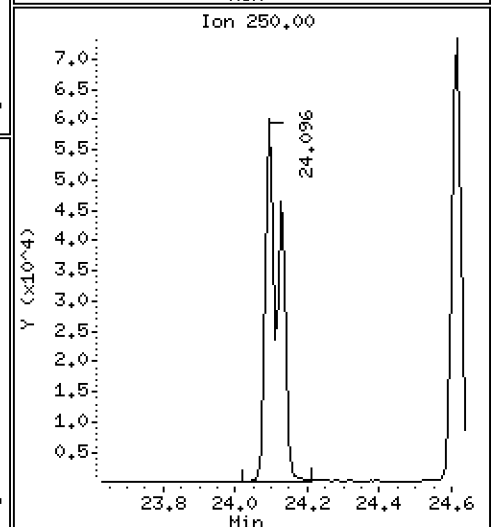
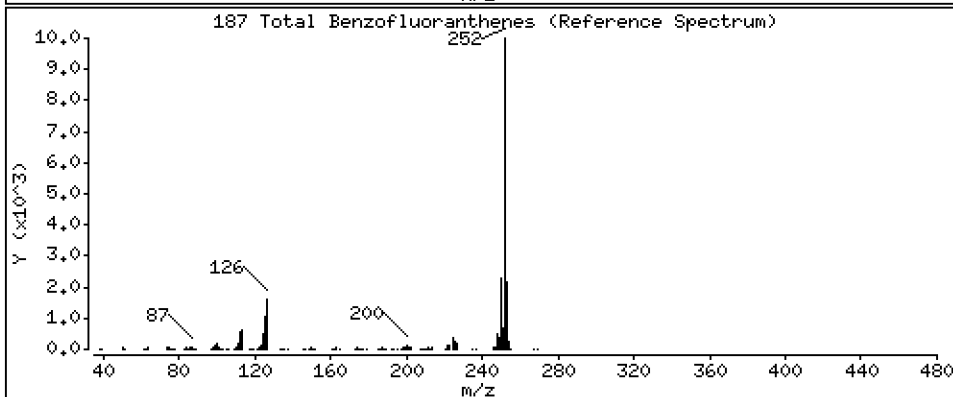
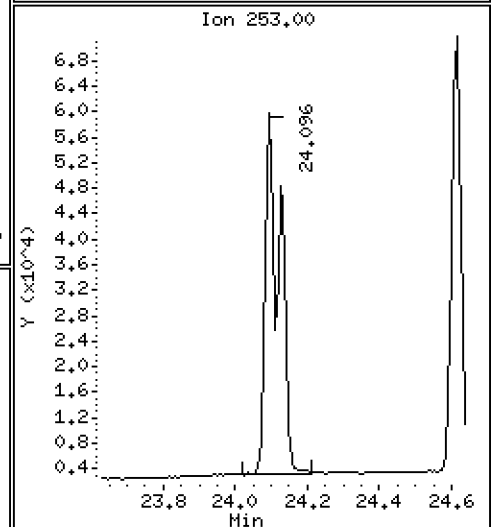
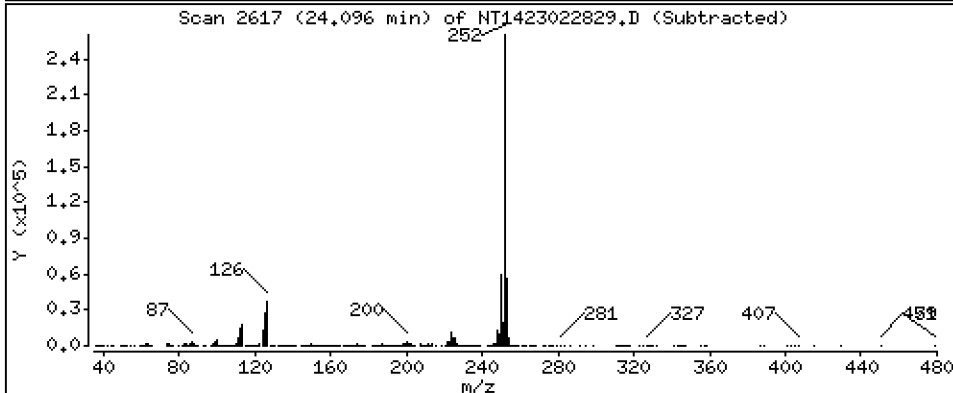
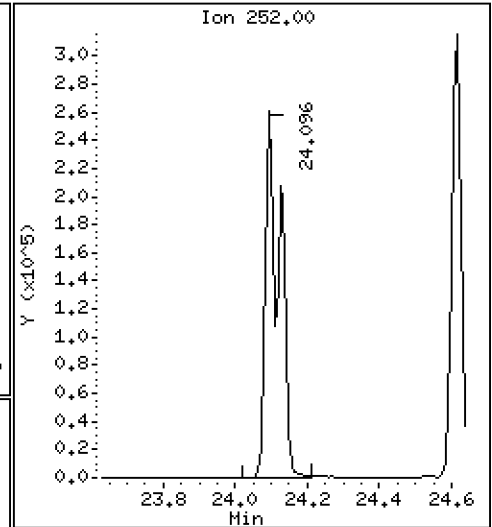
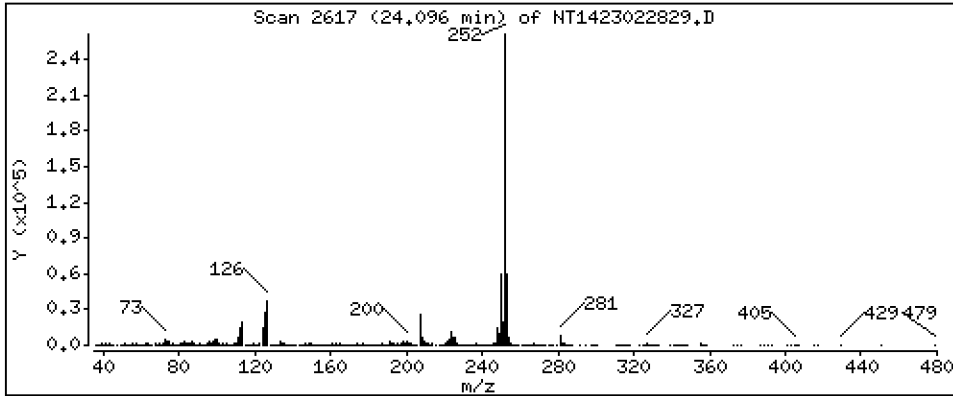
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 5,450 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

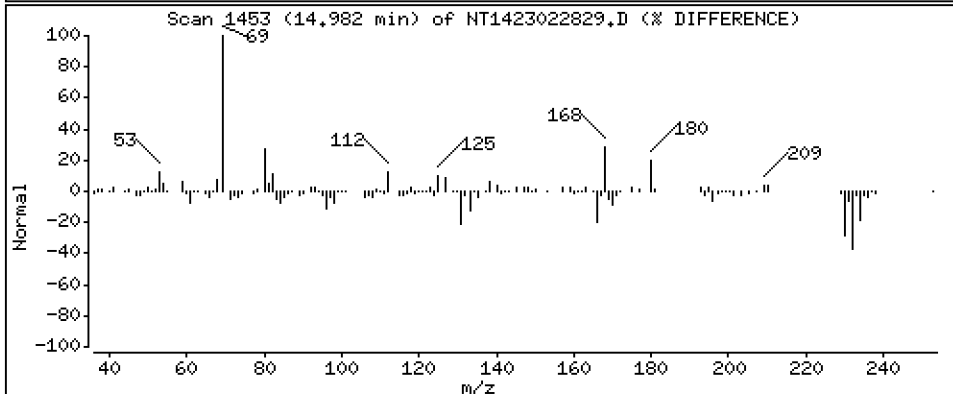
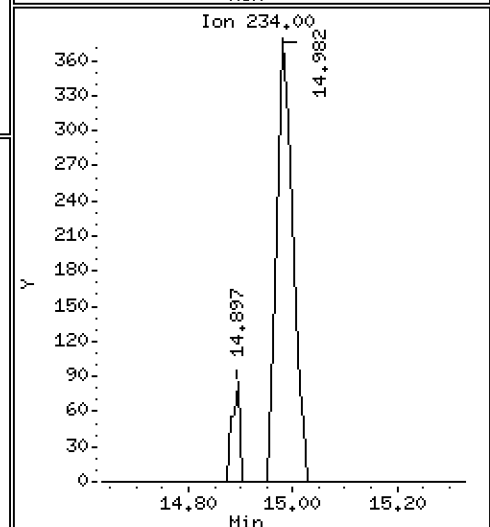
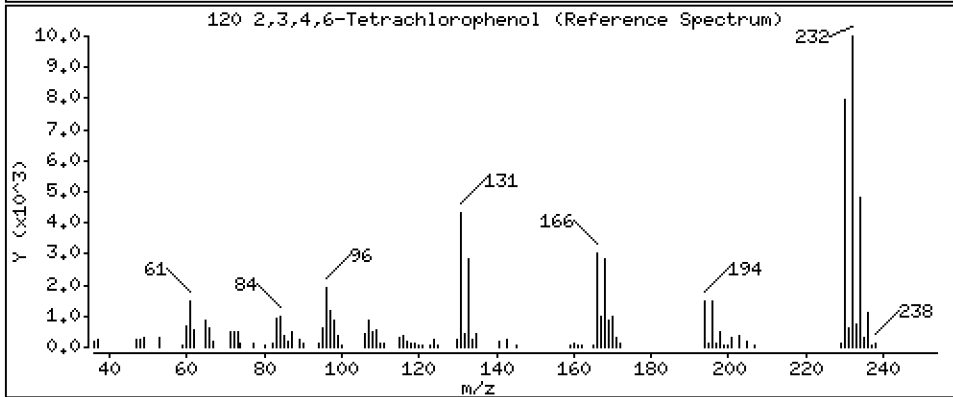
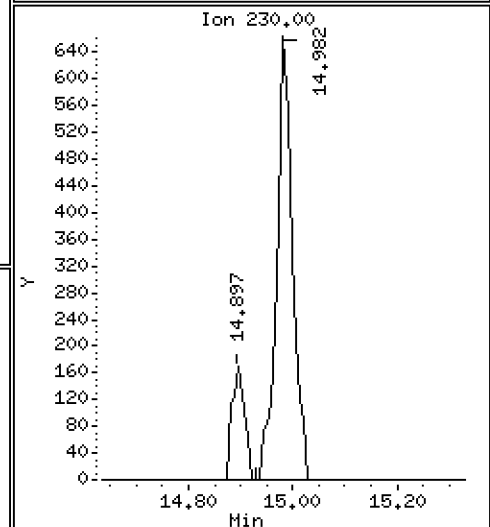
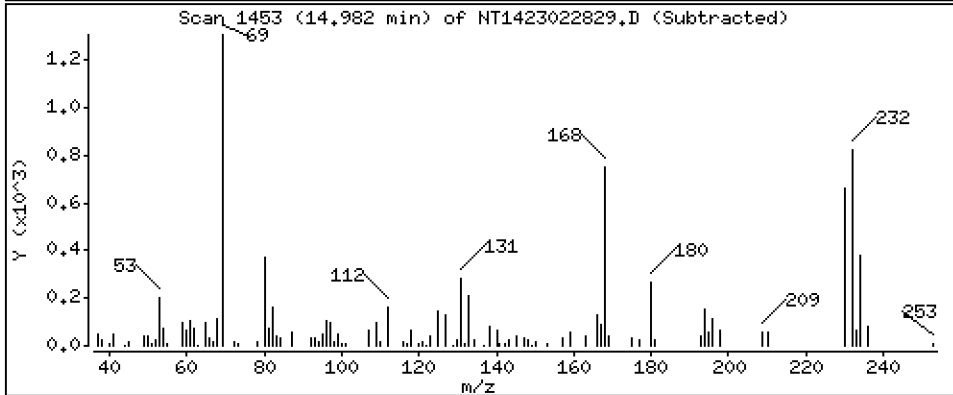
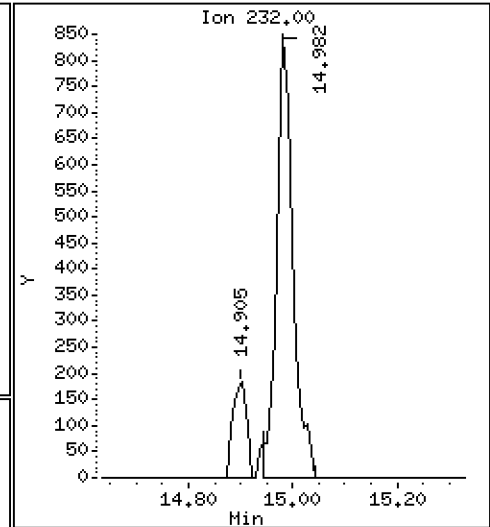
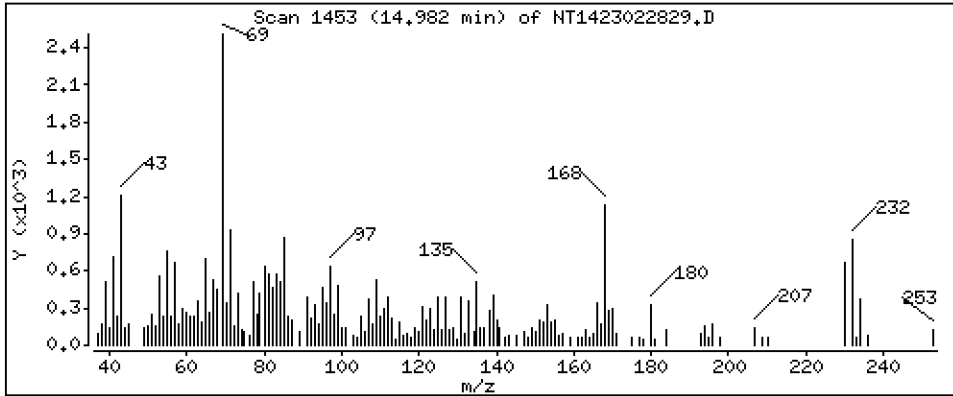
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,06398 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022829.D  
 Lab Smp Id: BLA0557-SRM1  
 Inj Date : 01-MAR-2023 18:28 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : BLA0557-SRM1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 11-Mar-2023 09:11 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 23  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |            |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|------------|
|                                 |       |     |                        |        |         |          | ON-COLUMN      | FINAL      |
|                                 | MASS  |     |                        |        |         |          | (ug/mL)        | (ug/mL)    |
| \$ 1 2-Fluorophenol             | 112   |     | 6.066                  | 6.050  | (0.741) | 207275   | 6.44934        | 6.449      |
| \$ 2 Phenol-d5                  | 99    |     | 7.634                  | 7.634  | (0.932) | 288029   | 6.31224        | 6.312      |
| 3 Phenol                        | 94    |     | 7.658                  | 7.657  | (0.935) | 141320   | 2.59570        | 2.596      |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.843                  | 7.850  | (0.957) | 227709   | 5.86886        | 5.869      |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | Compound Not Detected. |        |         |          |                |            |
| 6 2-Chlorophenol                | 128   |     | 7.874                  | 7.874  | (0.961) | 43079    | 1.07422        | 1.074      |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.121                  | 8.129  | (0.991) | 16268    | 0.36810        | 0.3681     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.191                  | 8.191  | (1.000) | 118527   | 4.00000        |            |
| 9 1,4-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |            |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.540                  | 8.548  | (1.043) | 100986   | 3.45727        | 3.457      |
| 12 1,2-Dichlorobenzene          | 146   |     | Compound Not Detected. |        |         |          |                |            |
| 11 Benzyl alcohol               | 108   |     | Compound Not Detected. |        |         |          |                |            |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.789                  | 8.789  | (1.073) | 13203    | 1.16890        | 1.169      |
| 13 2-Methylphenol               | 108   |     | 8.742                  | 8.742  | (1.067) | 181901   | 5.28867        | 5.289      |
| 17 Hexachloroethane             | 117   |     | Compound Not Detected. |        |         |          |                |            |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | Compound Not Detected. |        |         |          |                |            |
| 15 4-Methylphenol               | 108   |     | 9.014                  | 9.014  | (1.100) | 229817   | 5.87735        | 5.877      |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.278                  | 9.285  | (0.872) | 175180   | 4.14730        | 4.147      |
| 19 Nitrobenzene                 | 77    |     | 9.317                  | 9.316  | (0.875) | 79622    | 1.96161        | 1.962      |
| 20 Isophorone                   | 82    |     | 9.767                  | 9.774  | (0.918) | 97685    | 1.54718        | 1.547      |
| 21 2-Nitrophenol                | 139   |     | 9.938                  | 9.945  | (0.934) | 104534   | 4.94365        | 4.944      |
| 22 2,4-Dimethylphenol           | 107   |     | 10.038                 | 10.038 | (0.943) | 75283    | 2.03447        | 2.034      |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | Compound Not Detected. |        |         |          |                |            |
| 24 Benzoic acid                 | 105   |     | 10.302                 | 10.364 | (0.968) | 7121     | 0.48561        | 0.4856 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | 10.403                 | 10.402 | (0.978) | 223734   | 6.14309        | 6.143      |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.565                 | 10.572 | (0.993) | 31689    | 0.75775        | 0.7577     |
| * 27 Naphthalene-d8             | 136   |     | 10.642                 | 10.649 | (1.000) | 431802   | 4.00000        |            |
| 28 Naphthalene                  | 128   |     | 10.688                 | 10.688 | (1.004) | 278134   | 2.41481        | 2.415      |
| 29 4-Chloroaniline              | 127   |     | Compound Not Detected. |        |         |          |                |            |
| 30 Hexachlorobutadiene          | 225   |     | 11.059                 | 11.066 | (1.039) | 31880    | 1.24929        | 1.249      |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.841                 | 11.840 | (1.113) | 72786    | 2.18524        | 2.185      |
| 32 2-Methylnaphthalene          | 142   |     | Compound Not Detected. |        |         |          |                |            |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                |            |

| Compounds                         | QUANT | SIG |                        |        |         |        |          | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|------------------------|--------|---------|--------|----------|----------------------|------------------|
|                                   |       |     | MASS                   | RT     | EXP RT  | REL RT | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     | 12.715                 | 12.715 | (0.893) | 54443  | 2.26780  | 2.268                |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     | 12.792                 | 12.792 | (0.899) | 94932  | 3.65733  | 3.657                |                  |
| § 36 2-Fluorobiphenyl             | 172   |     | 12.870                 | 12.877 | (0.904) | 384747 | 4.02229  | 4.022                |                  |
| 37 2-Chloronaphthalene            | 162   |     | 13.056                 | 13.063 | (0.917) | 147763 | 1.92703  | 1.927                |                  |
| 38 2-Nitroaniline                 | 65    |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 39 Dimethylphthalate              | 163   |     | 13.791                 | 13.798 | (0.969) | 414655 | 5.36413  | 5.364                |                  |
| 40 Acenaphthylene                 | 152   |     | 13.915                 | 13.922 | (0.978) | 179374 | 1.59422  | 1.594                |                  |
| 41 2,6-Dinitrotoluene             | 165   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| * 42 Acenaphthene-d10             | 164   |     | 14.232                 | 14.232 | (1.000) | 245761 | 4.00000  |                      |                  |
| 43 3-Nitroaniline                 | 138   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 44 Acenaphthene                   | 153   |     | 14.294                 | 14.301 | (1.004) | 347273 | 4.82067  | 4.821                |                  |
| 45 2,4-Dinitrophenol              | 184   |     | 14.410                 | 14.417 | (1.012) | 48093  | 4.16342  | 4.163                |                  |
| 46 Dibenzofuran                   | 168   |     | 14.626                 | 14.626 | (1.028) | 641971 | 5.60066  | 5.601                |                  |
| 47 4-Nitrophenol                  | 109   |     | 14.580                 | 14.579 | (1.024) | 74191  | 7.90419  | 7.904                |                  |
| 48 2,4-Dinitrotoluene             | 165   |     | 14.711                 | 14.726 | (1.034) | 95964  | 3.67990  | 3.680                |                  |
| 50 Diethylphthalate               | 149   |     | 15.245                 | 15.252 | (1.071) | 26260  | 0.36327  | 0.3633               |                  |
| 49 Fluorene                       | 166   |     | 15.330                 | 15.330 | (1.077) | 340925 | 3.53005  | 3.530                |                  |
| 51 4-Chlorophenyl-phenylether     | 204   |     | 15.345                 | 15.345 | (1.078) | 102247 | 1.98976  | 1.990                |                  |
| 52 4-Nitroaniline                 | 138   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     | 15.538                 | 15.553 | (0.901) | 120761 | 7.63700  | 7.637                |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     | 15.600                 | 15.607 | (0.905) | 105951 | 1.77936  | 1.779                |                  |
| § 55 2,4,6-Tribromophenol         | 330   |     | 15.862                 | 15.870 | (1.115) | 98757  | 7.25237  | 7.252                |                  |
| 56 4-Bromophenyl-phenylether      | 248   |     | 16.332                 | 16.340 | (0.947) | 184843 | 7.06098  | 7.061                |                  |
| 57 Hexachlorobenzene              | 284   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 58 Pentachlorophenol              | 266   |     | 16.998                 | 17.005 | (0.986) | 60071  | 4.35338  | 4.353                |                  |
| * 59 Phenanthrene-d10             | 188   |     | 17.237                 | 17.237 | (1.000) | 473833 | 4.00000  |                      |                  |
| 60 Phenanthrene                   | 178   |     | 17.284                 | 17.291 | (1.003) | 594957 | 4.72001  | 4.720                |                  |
| 61 Anthracene                     | 178   |     | 17.377                 | 17.384 | (1.008) | 274439 | 2.30304  | 2.303                |                  |
| 62 Carbazole                      | 167   |     | 17.725                 | 17.732 | (1.028) | 621907 | 5.95468  | 5.955                |                  |
| 63 Di-n-butylphthalate            | 149   |     | 18.584                 | 18.583 | (1.078) | 244598 | 1.82479  | 1.825                |                  |
| 64 Fluoranthene                   | 202   |     | 19.706                 | 19.705 | (0.881) | 348423 | 2.65169  | 2.652                |                  |
| 65 Pyrene                         | 202   |     | 20.131                 | 20.139 | (0.900) | 438148 | 3.16274  | 3.163                |                  |
| § 66 Terphenyl-d14                | 244   |     | 20.464                 | 20.471 | (0.915) | 512837 | 4.80798  | 4.808                |                  |
| 67 Butylbenzylphthalate           | 149   |     | 21.432                 | 21.439 | (0.958) | 202311 | 4.19353  | 4.194                |                  |
| 68 Benzo(a)anthracene             | 228   |     | 22.330                 | 22.330 | (0.999) | 686891 | 5.92087  | 5.921                |                  |
| * 69 Chrysene-d12                 | 240   |     | 22.361                 | 22.361 | (1.000) | 346329 | 4.00000  |                      |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 71 Chrysene                       | 228   |     | 22.400                 | 22.407 | (1.002) | 158749 | 1.42363  | 1.424                |                  |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 22.485                 | 22.492 | (0.958) | 212050 | 2.61699  | 2.617                |                  |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 23.468                 | 23.468 | (1.000) | 532201 | 4.00000  |                      |                  |
| 73 Di-n-octylphthalate            | 149   |     | 23.476                 | 23.483 | (1.000) | 330503 | 2.35861  | 2.359                |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 24.095                 | 24.103 | (0.975) | 406744 | 2.96869  | 2.969                |                  |
| 75 Benzo(k)fluoranthene           | 252   |     | 24.126                 | 24.134 | (0.976) | 372722 | 2.52159  | 2.522                |                  |
| 76 Benzo(a)pyrene                 | 252   |     | 24.614                 | 24.621 | (0.996) | 557224 | 4.74044  | 4.740                |                  |
| * 77 Perylene-d12                 | 264   |     | 24.707                 | 24.707 | (1.000) | 414695 | 4.00000  |                      |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 26.777                 | 26.784 | (1.084) | 386365 | 2.61114  | 2.611                |                  |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 26.792                 | 26.792 | (1.084) | 316065 | 2.51496  | 2.515                |                  |
| 80 Benzo(g,h,i)perylene           | 276   |     | 27.367                 | 27.375 | (1.108) | 88881  | 0.68871  | 0.6887               |                  |
| 90 N-Nitrosodimethylamine         | 74    |     | 4.027                  | 3.988  | (0.492) | 16448  | 0.67686  | 0.6769               |                  |
| 91 Aniline                        | 93    |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 93 Benzidine                      | 184   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 103 Pyridine                      | 79    |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 105 1-methylnaphthalene           | 142   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     | Compound Not Detected. |        |         |        |          |                      |                  |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 24.095 | 24.134 | (0.975) | 730499   | 5.45039              | 5.450            |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 14.982 | 14.981 | (1.053) | 1768     | 0.06398              | 0.06398          |

QC Flag Legend

M - Compound response manually integrated.



ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023  
 Lab File ID: NT1423022829.D Calibration Time: 13:39  
 Lab Smp Id: BLA0557-SRM1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 125853   | 62927      | 251706  | 118527 | -5.82  |
| 27 Naphthalene-d8     | 454961   | 227481     | 909922  | 431802 | -5.09  |
| 42 Acenaphthene-d10   | 273779   | 136890     | 547558  | 245761 | -10.23 |
| 59 Phenanthrene-d10   | 520384   | 260192     | 1040768 | 473833 | -8.95  |
| 69 Chrysene-d12       | 399183   | 199592     | 798366  | 346329 | -13.24 |
| 134 Di-n-octylphthala | 602810   | 301405     | 1205620 | 532201 | -11.71 |
| 77 Perylene-d12       | 478887   | 239444     | 957774  | 414695 | -13.40 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.19     | 7.69     | 8.69  | 8.19   | 0.00  |
| 27 Naphthalene-d8     | 10.65    | 10.15    | 11.15 | 10.64  | -0.07 |
| 42 Acenaphthene-d10   | 14.23    | 13.73    | 14.73 | 14.23  | 0.00  |
| 59 Phenanthrene-d10   | 17.24    | 16.74    | 17.74 | 17.24  | 0.00  |
| 69 Chrysene-d12       | 22.36    | 21.86    | 22.86 | 22.36  | 0.00  |
| 134 Di-n-octylphthala | 23.47    | 22.97    | 23.97 | 23.47  | 0.00  |
| 77 Perylene-d12       | 24.71    | 24.21    | 25.21 | 24.71  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022829.D

Lab ID: BLA0557-SRM1  
nt14.i, ABN.m, 01-MAR-2023 18:28

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND     |
|-------|---------|---------|--------------|
| 0.968 | 0.973   | -0.0051 | Benzoic acid |

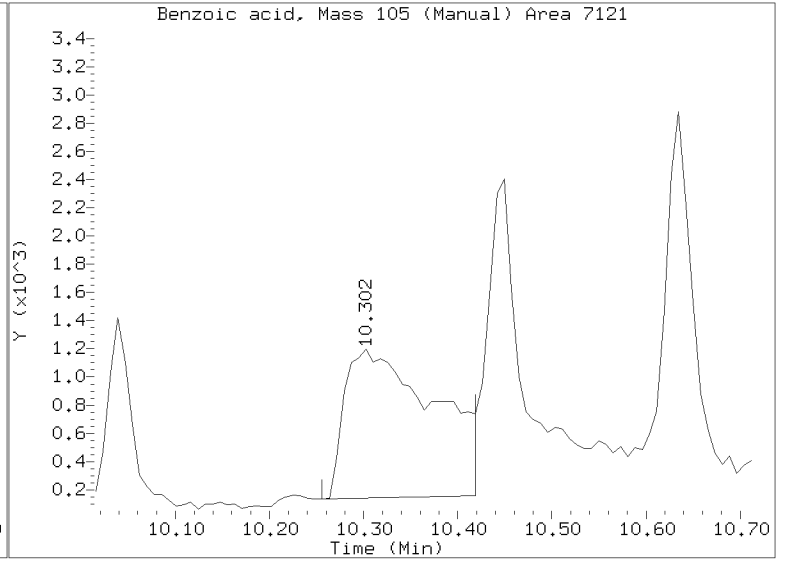
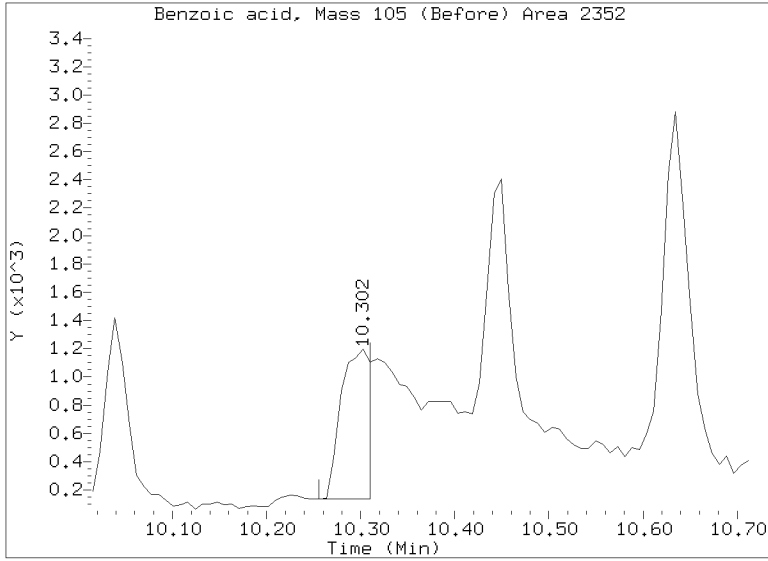
RRT check based on Ccal File: NT1423022821.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022829.D  
Injection Date: 01-MAR-2023 18:28  
Lab ID:BLA0557-SRM1 Client ID:  
Report Date: 03/11/2023 09:12





## STANDARD REFERENCE MATERIAL RECOVERY

### EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: BLC0442-SRM1

Batch: BLC0442

Initial/Final: 1 g / 1 mL

Preparation: EPA 3546 (Microwave)

Analyzed: 03/22/2023 22:10

Standard ID: K003477

Expires: 01/31/2024

Standard Lot#: CRM 143 (LRAC8918)

Description: CRM 143 BNAs - Sandy Loam

| ANALYTE                    | TRUE<br>(ug/kg wet) | FOUND<br>(ug/kg wet) | MDL  | MRL | Q | SRM<br>%<br>REC. | QC<br>LIMITS<br>REC. |
|----------------------------|---------------------|----------------------|------|-----|---|------------------|----------------------|
| Phenol                     | 2660.0              | 2540                 | 43.9 | 200 |   | 95.4             | 26 - 174             |
| 4-Methylphenol             | 6617.0              | 7010                 | 73.9 | 200 |   | 106              | 40 - 160             |
| Naphthalene                | 4458.0              | 4040                 | 42.4 | 200 |   | 90.6             | 25 - 175             |
| Acenaphthylene             | 1948.0              | 1790                 | 62.4 | 200 |   | 91.9             | 37 - 167             |
| Dimethylphthalate          | 4537.0              | 4980                 | 43.9 | 200 |   | 110              | 41 - 159             |
| Acenaphthene               | 5489.0              | 5530                 | 52.2 | 200 |   | 101              | 41 - 159             |
| Dibenzofuran               | 6130.0              | 6350                 | 141  | 200 |   | 104              | 45 - 155             |
| Fluorene                   | 3724.0              | 3870                 | 146  | 200 |   | 104              | 44 - 156             |
| Phenanthrene               | 5052.0              | 4950                 | 87.2 | 200 |   | 97.9             | 46 - 154             |
| Anthracene                 | 2866.0              | 2410                 | 71.9 | 200 |   | 84.0             | 42 - 158             |
| Fluoranthene               | 2497.0              | 2420                 | 60.9 | 200 |   | 96.9             | 39 - 161             |
| Pyrene                     | 2964.0              | 3010                 | 56.8 | 200 |   | 101              | 38 - 162             |
| Butylbenzylphthalate       | 3511.0              | 4110                 | 94.1 | 200 |   | 117              | 36 - 164             |
| Benzo(a)anthracene         | 5751.0              | 5950                 | 59.6 | 200 |   | 103              | 49 - 151             |
| Chrysene                   | 1477.0              | 1370                 | 60.6 | 200 |   | 92.8             | 45 - 155             |
| bis(2-Ethylhexyl)phthalate | 2905.0              | 2760                 | 54.6 | 500 |   | 95.0             | 26 - 174             |
| Benzofluoranthenes, Total  | 6534.0              | 5640                 | 100  | 400 |   | 86.4             | 40 - 160             |
| Benzo(a)pyrene             | 5902.0              | 5030                 | 42.3 | 200 |   | 85.3             | 43 - 157             |
| Indeno(1,2,3-cd)pyrene     | 3914.0              | 3950                 | 147  | 200 |   | 101              | 22 - 178             |
| Dibenzo(a,h)anthracene     | 3420.0              | 3630                 | 172  | 200 |   | 106              | 37 - 163             |
| Benzo(g,h,i)perylene       | 1380.0              | 1420                 | 136  | 200 |   | 103              | 35 - 165             |

\* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222309.D

Date: 22-MAR-2023 22:10

Client ID:

Sample Info: BLC0442-SRM1

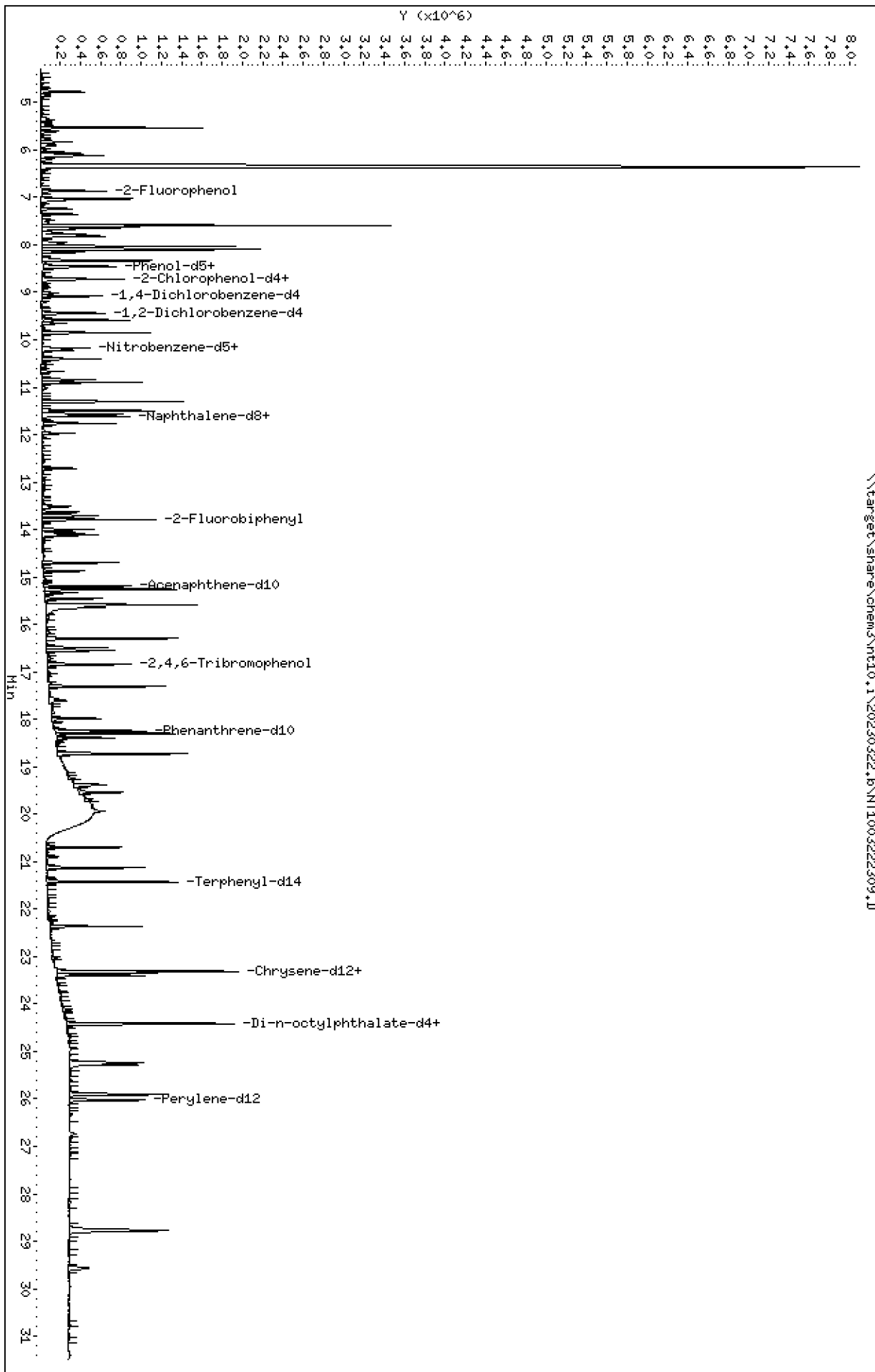
Page 1

Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

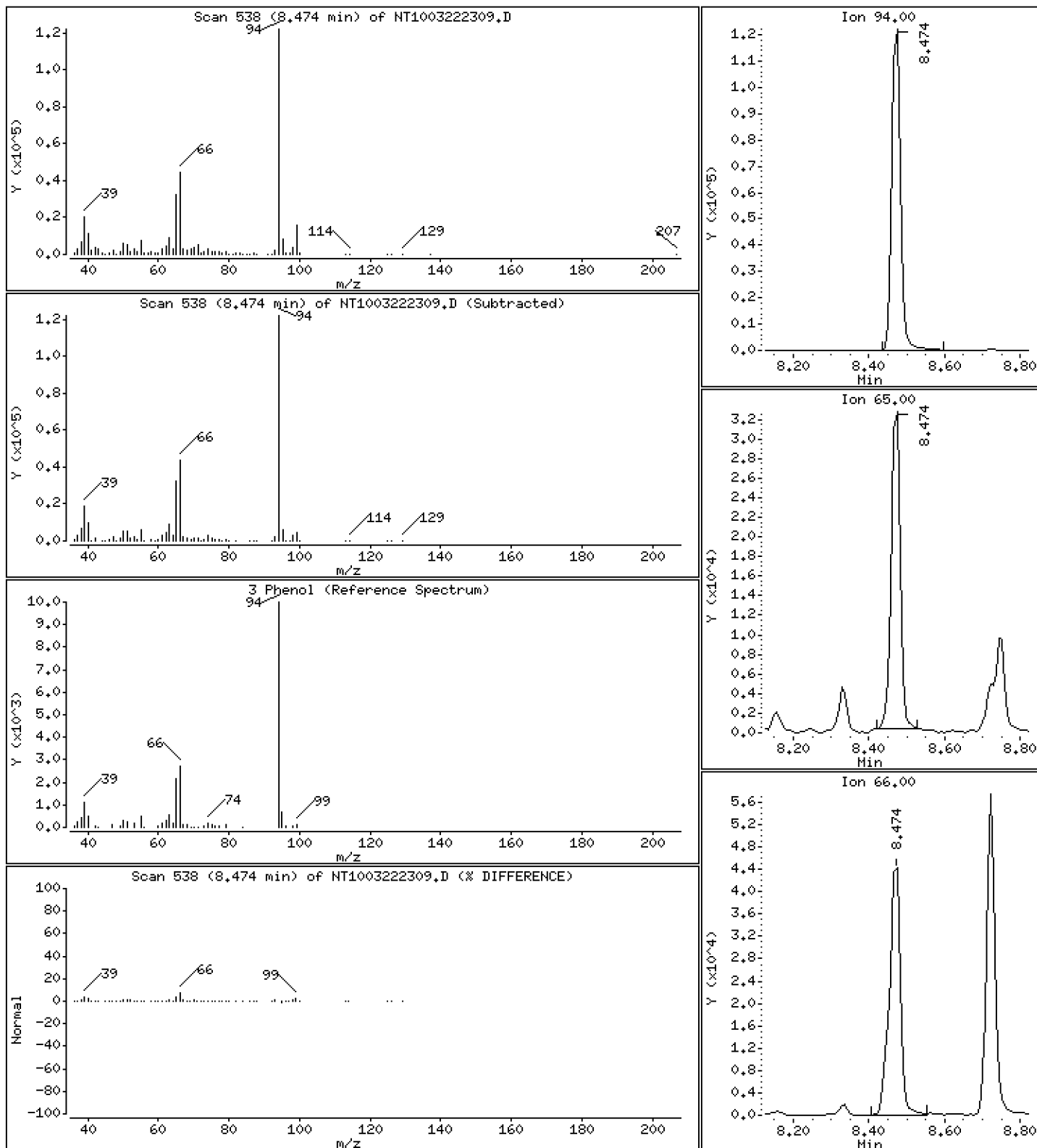
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 2,537 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

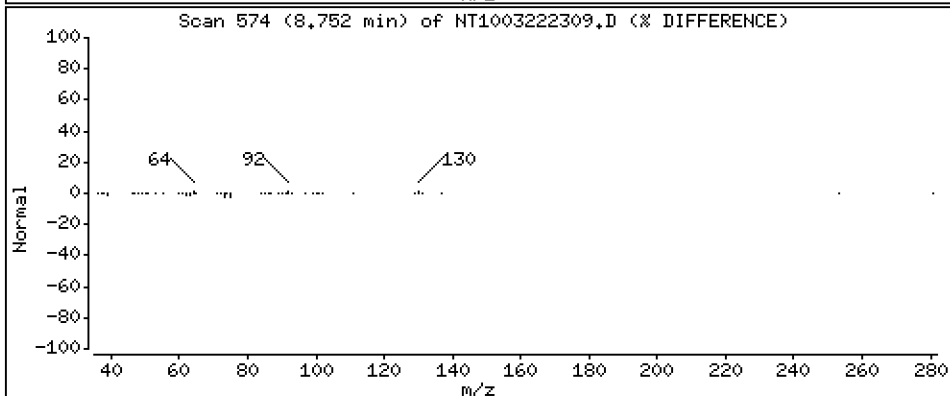
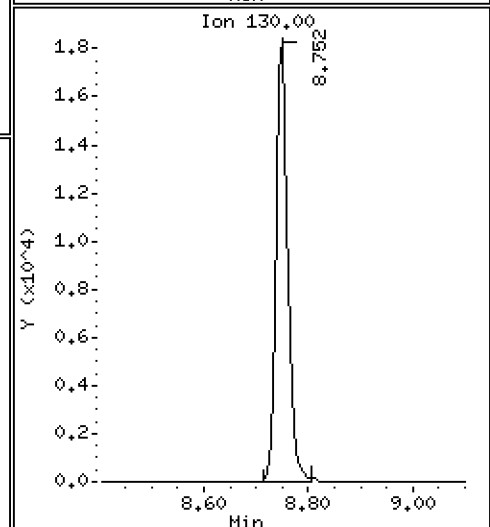
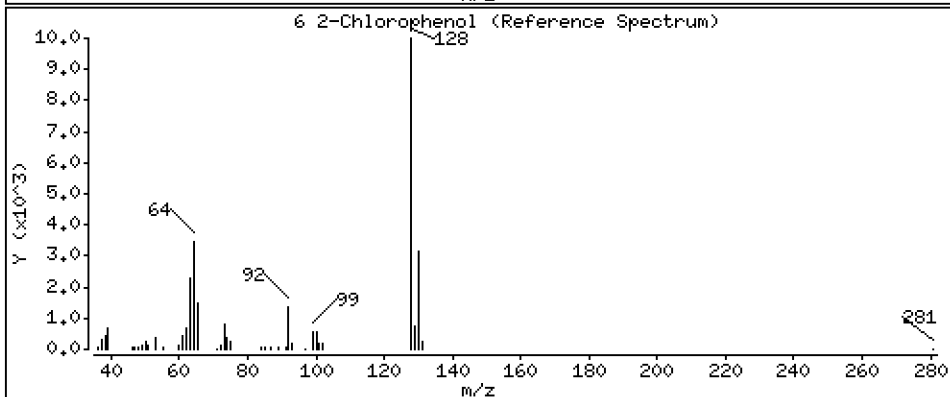
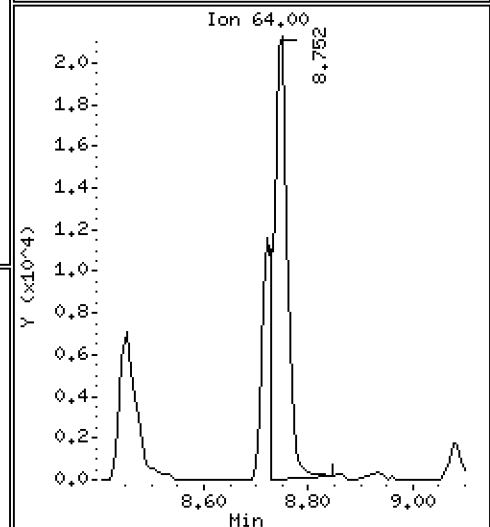
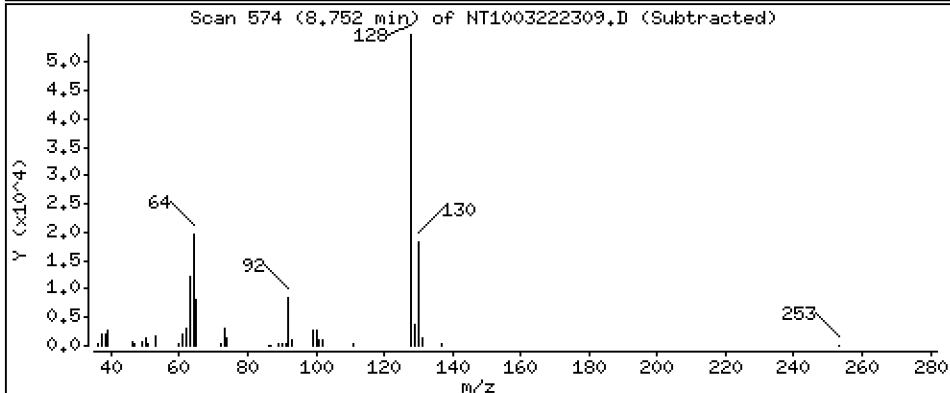
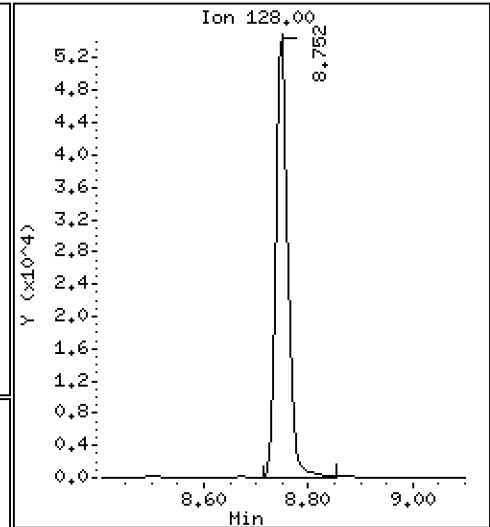
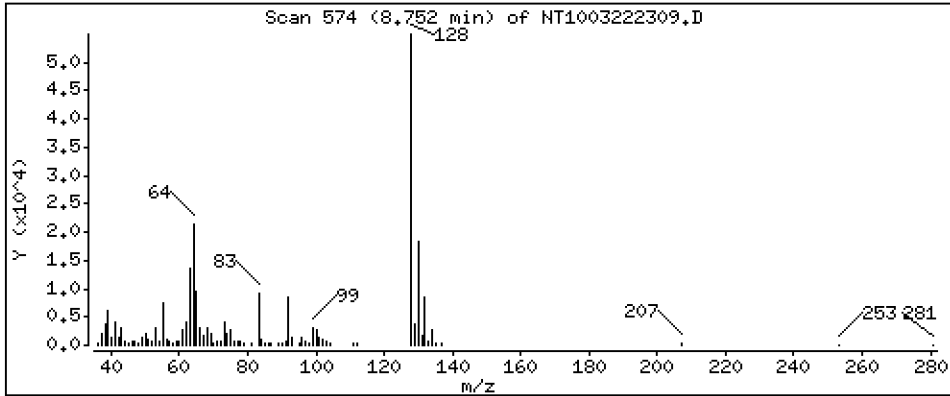
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 1,403 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

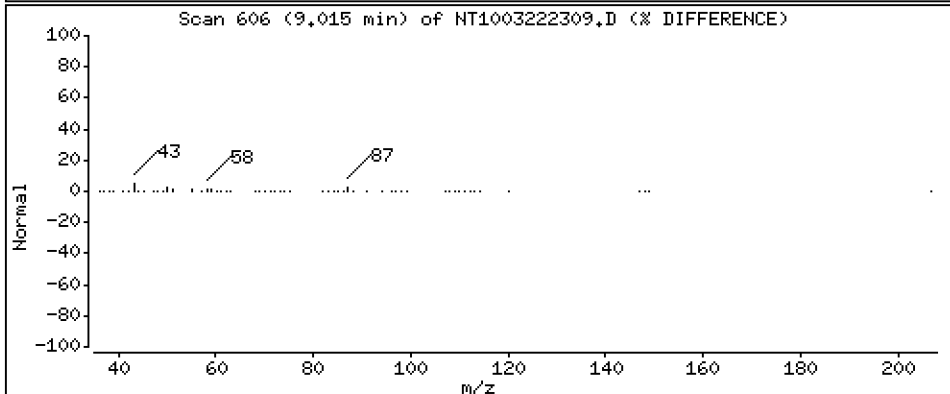
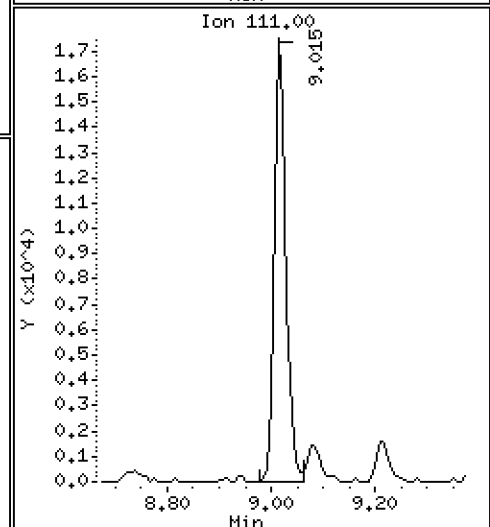
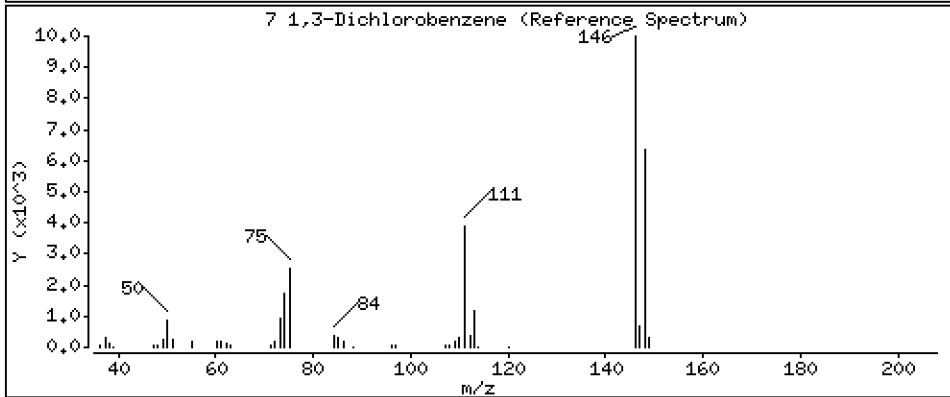
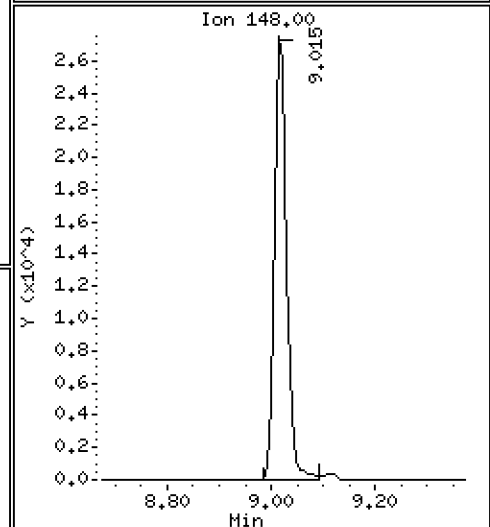
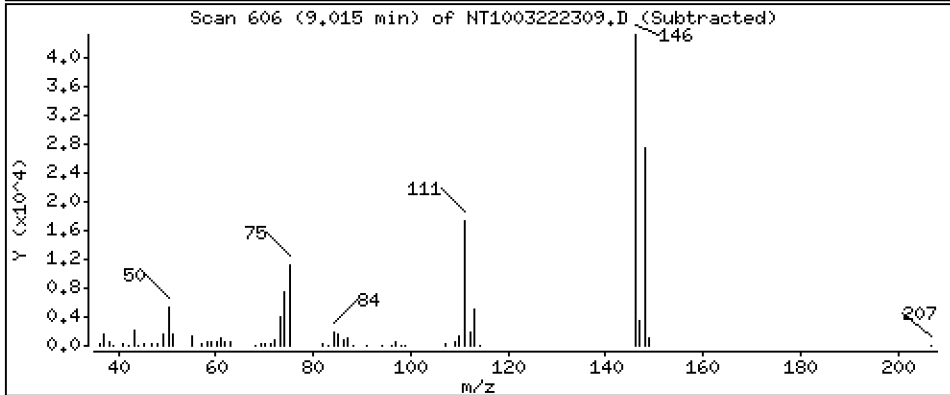
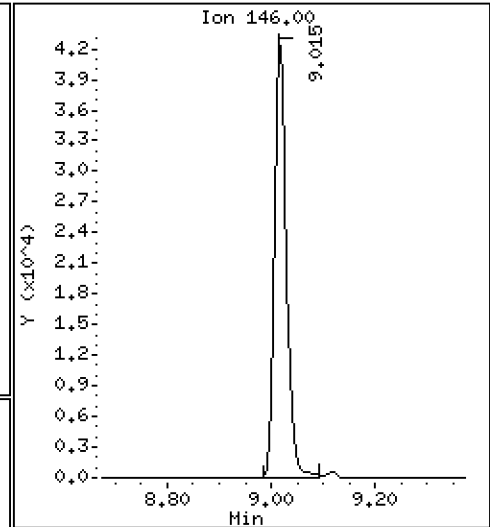
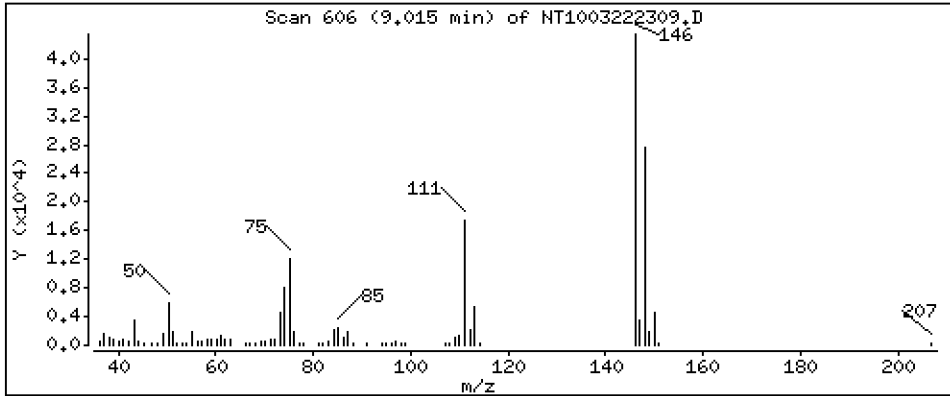
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 1,049 ug/mL





Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

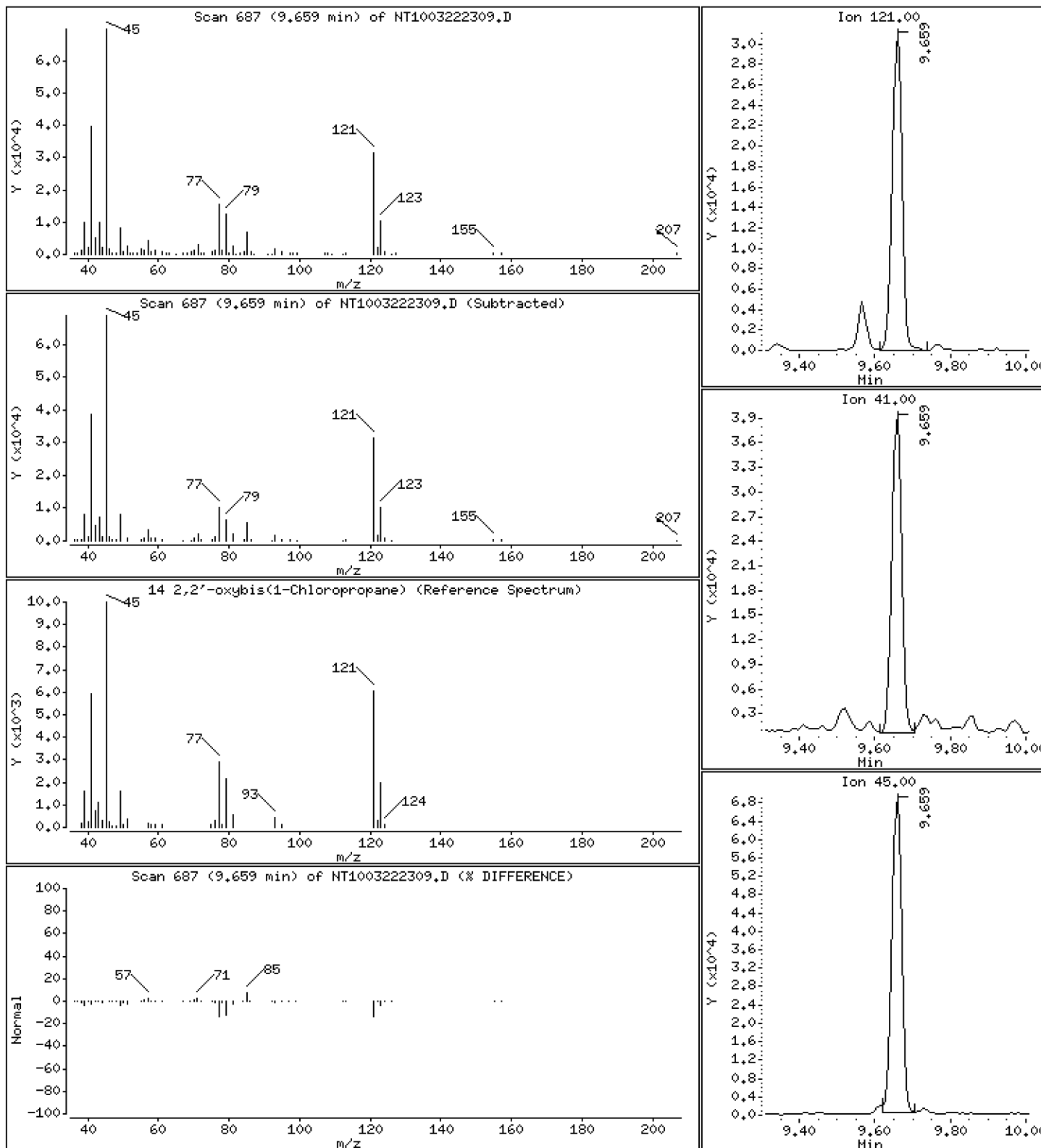
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 2,925 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

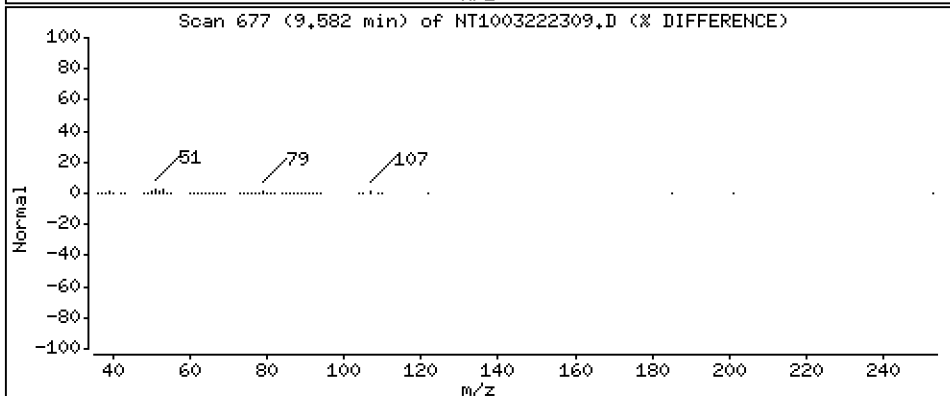
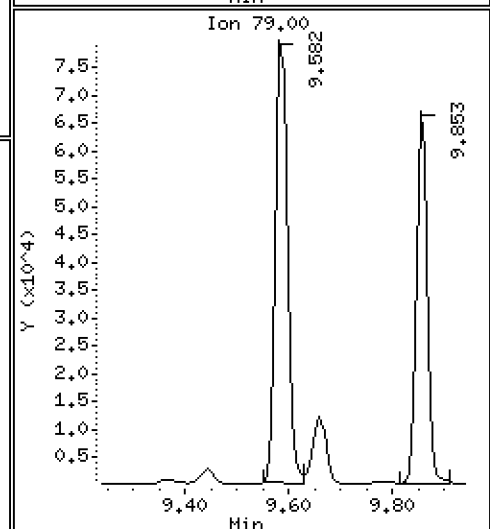
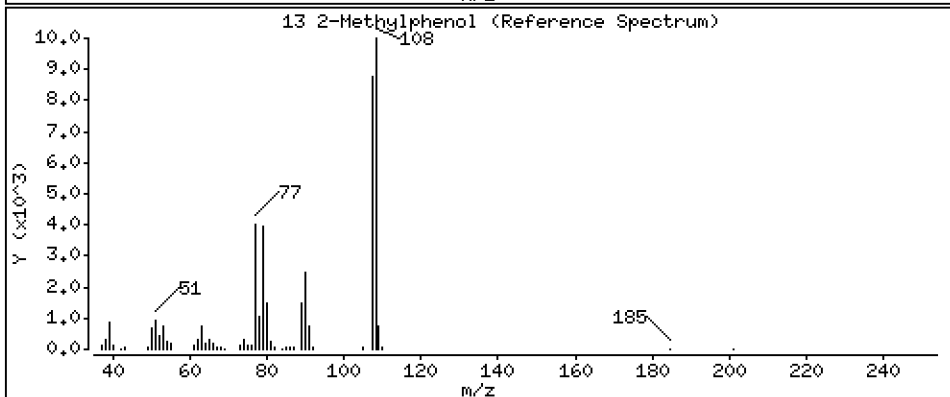
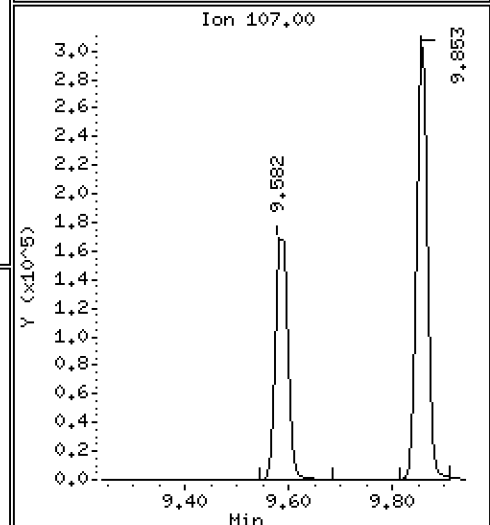
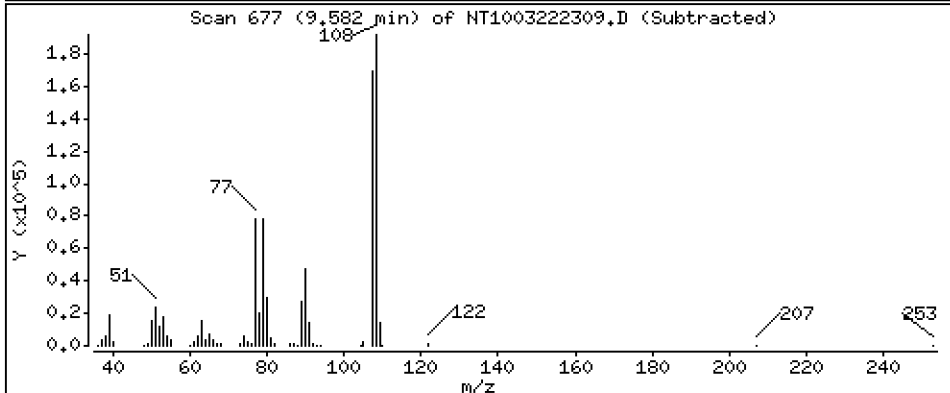
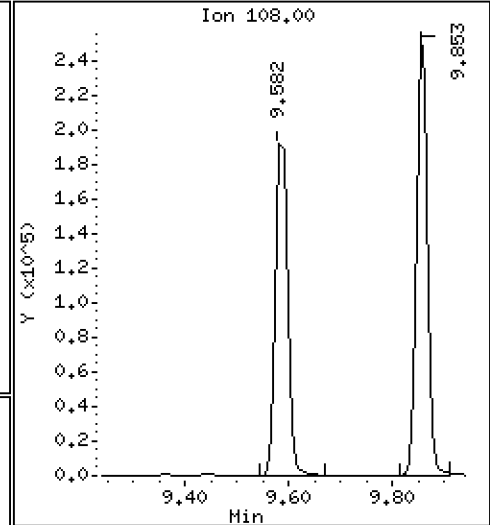
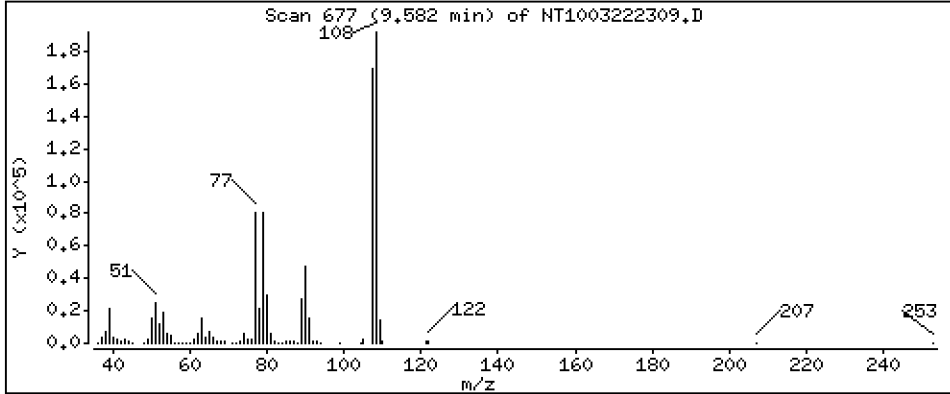
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 5,677 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

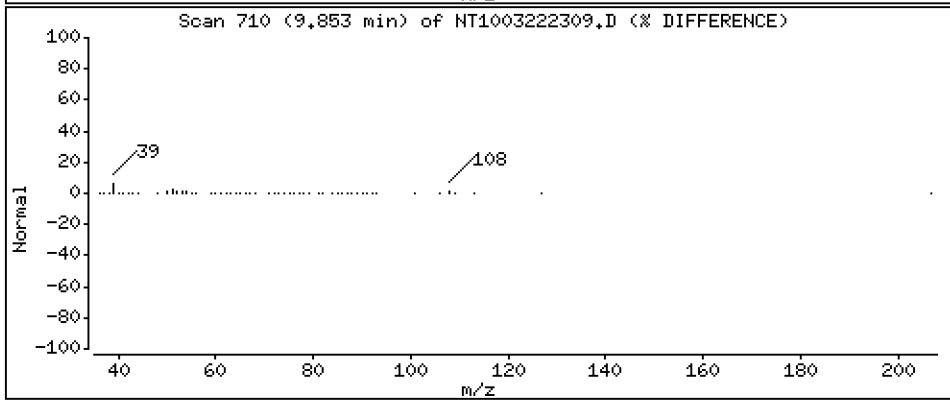
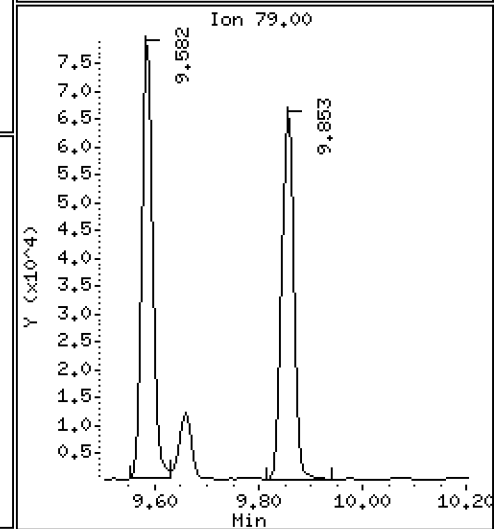
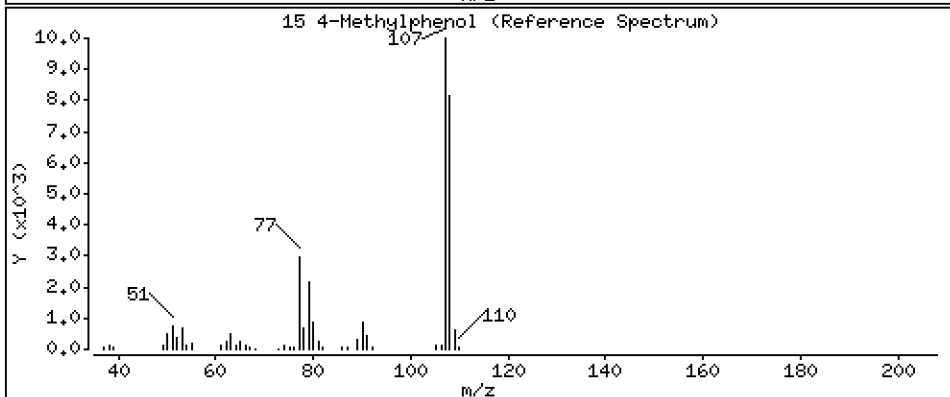
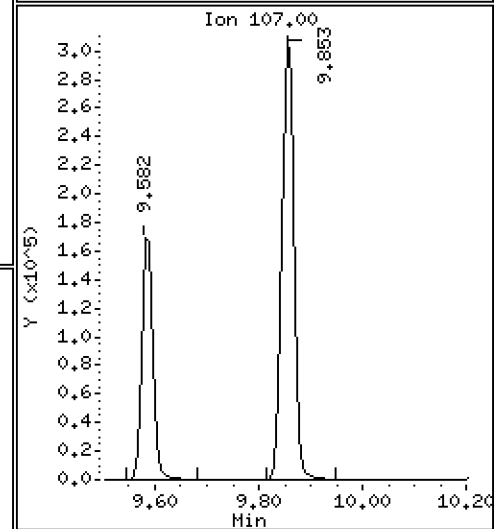
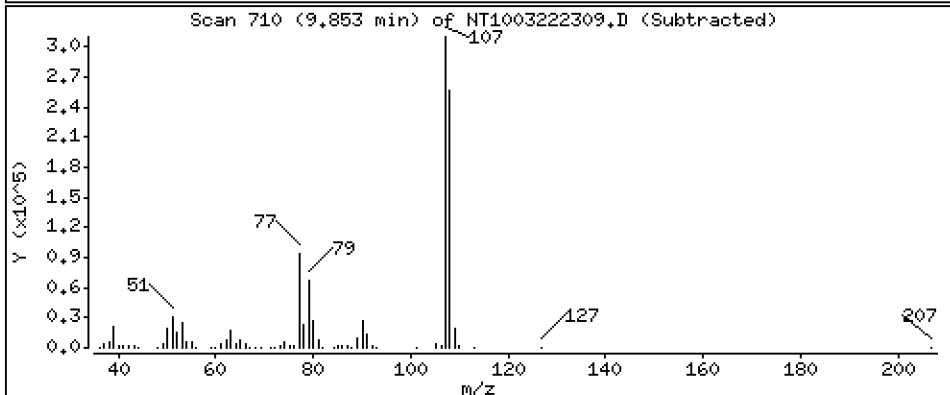
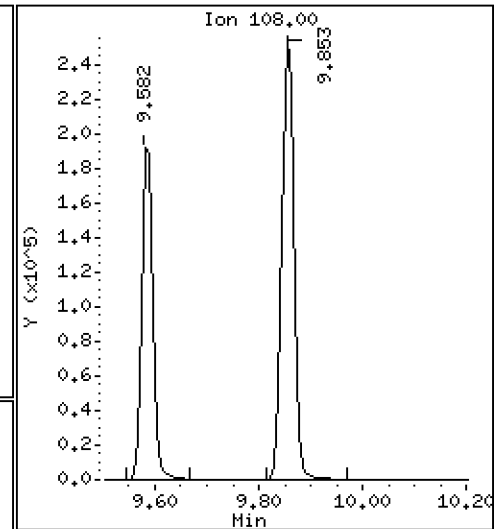
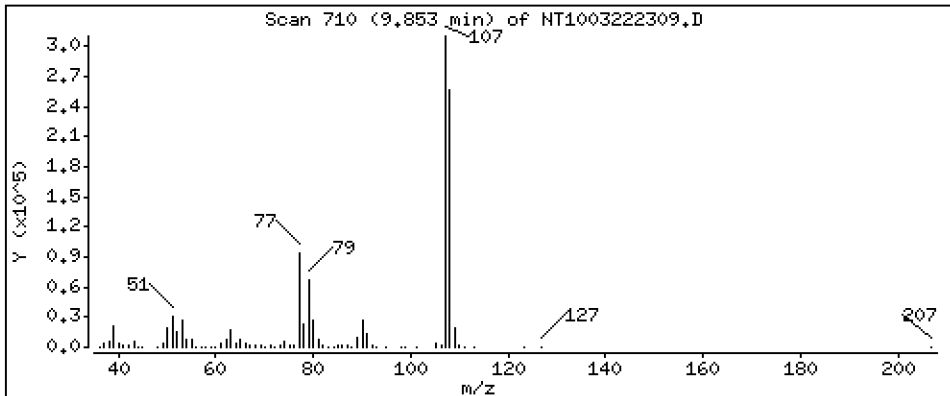
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 7,007 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

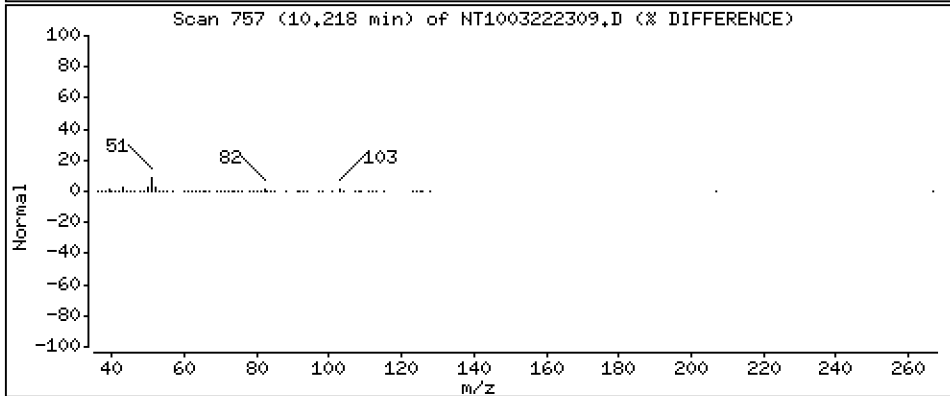
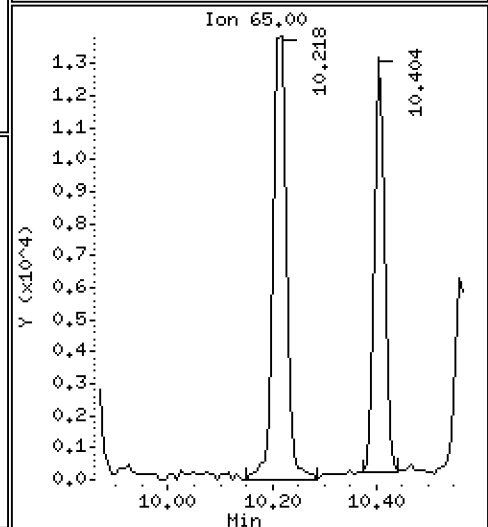
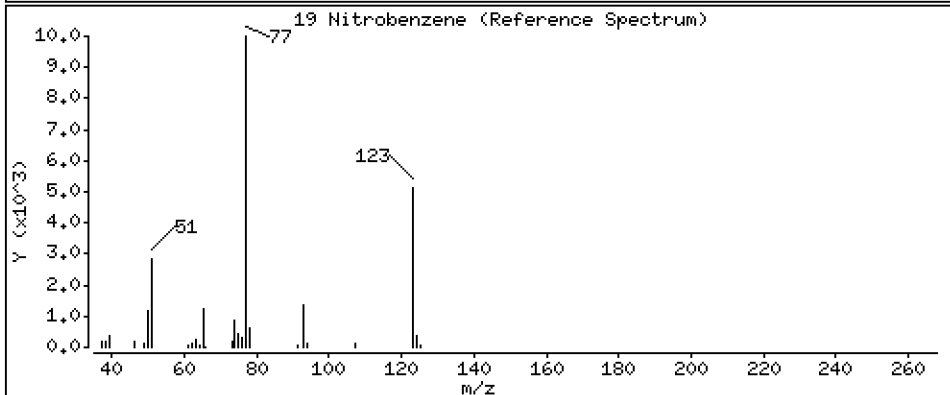
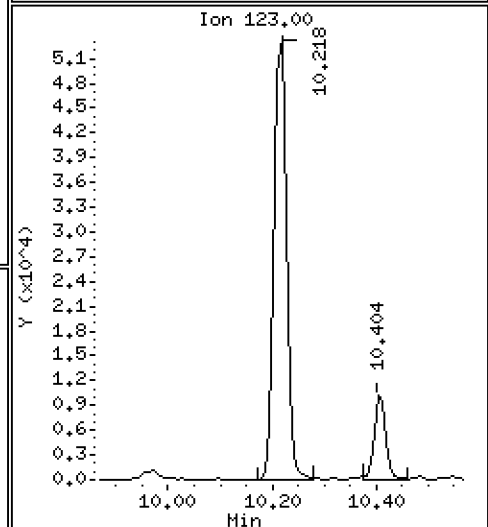
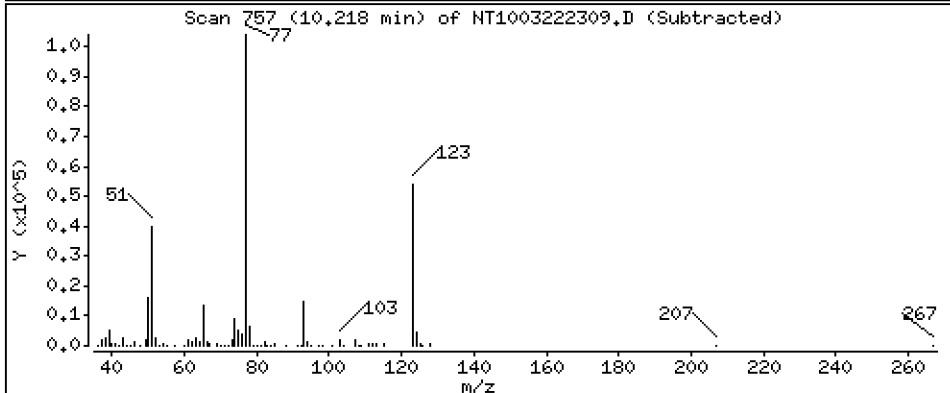
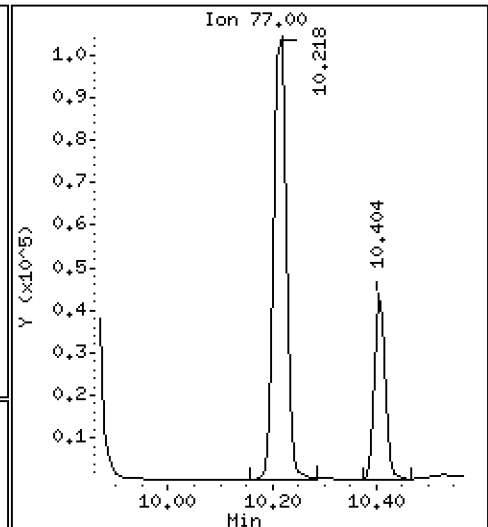
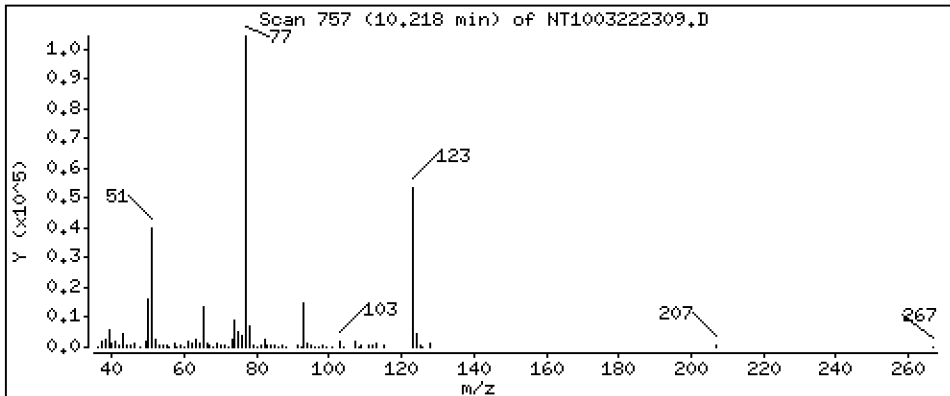
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 2,690 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

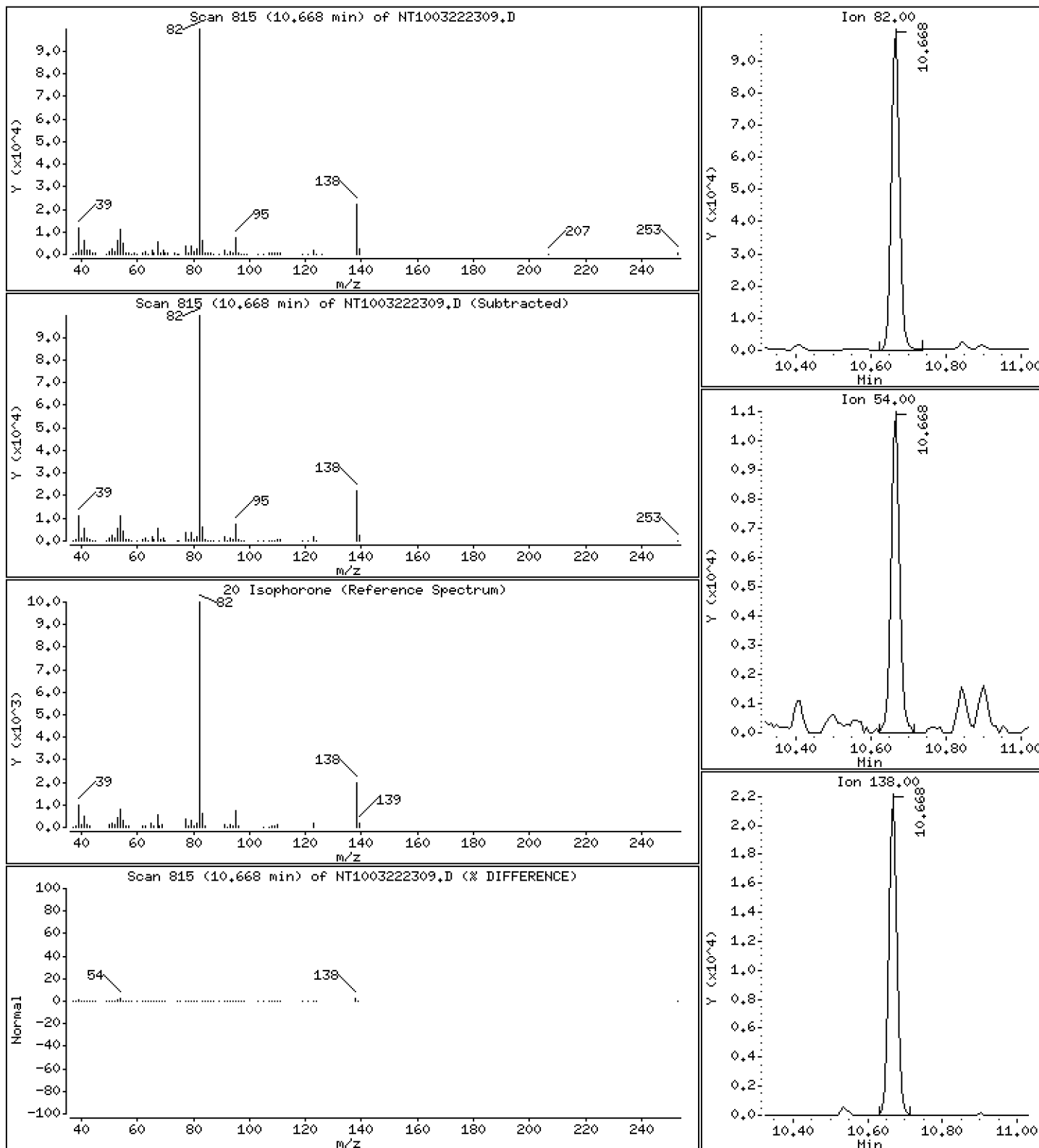
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 1,972 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

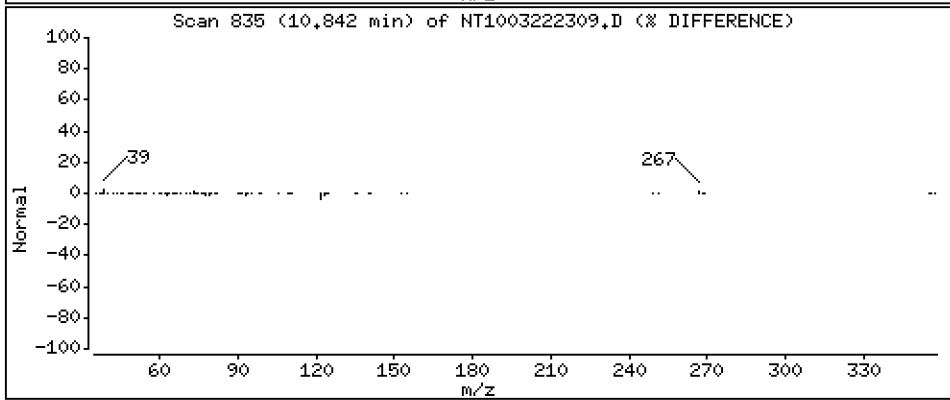
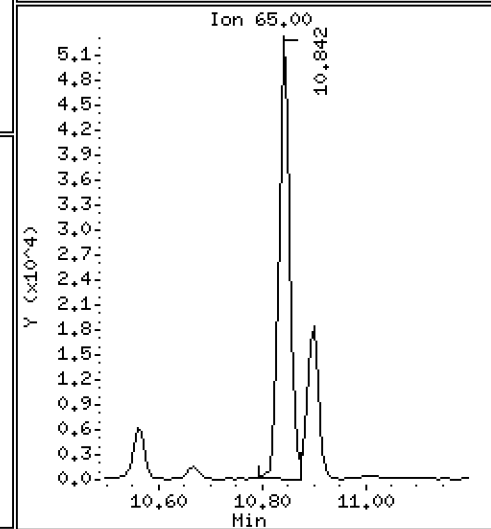
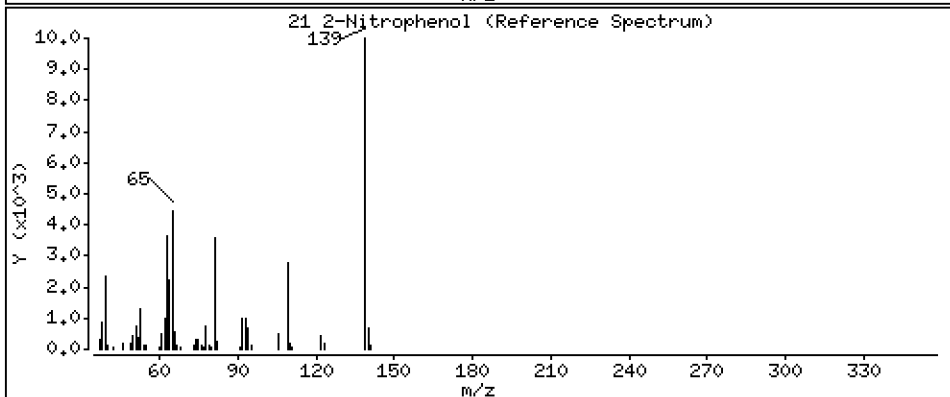
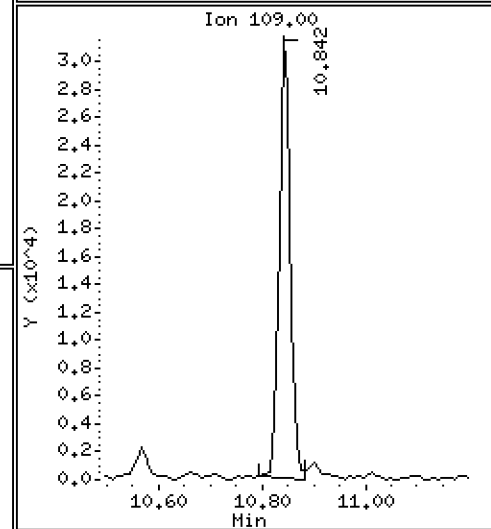
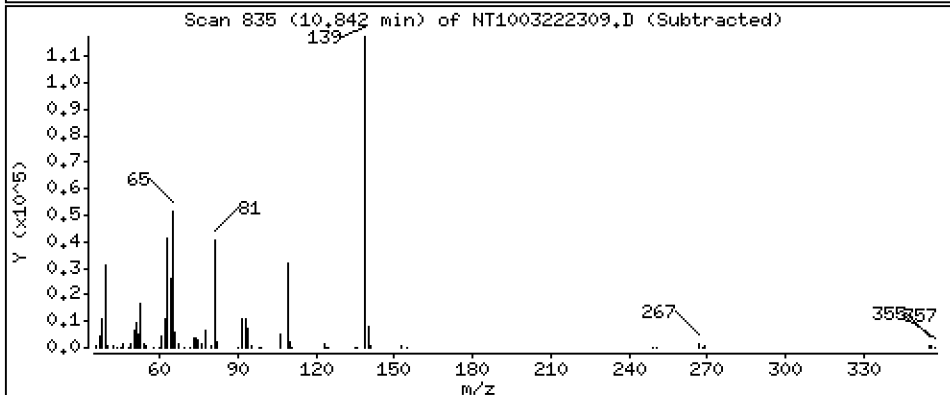
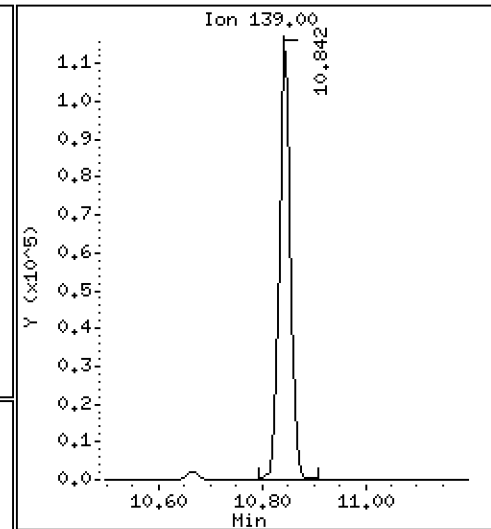
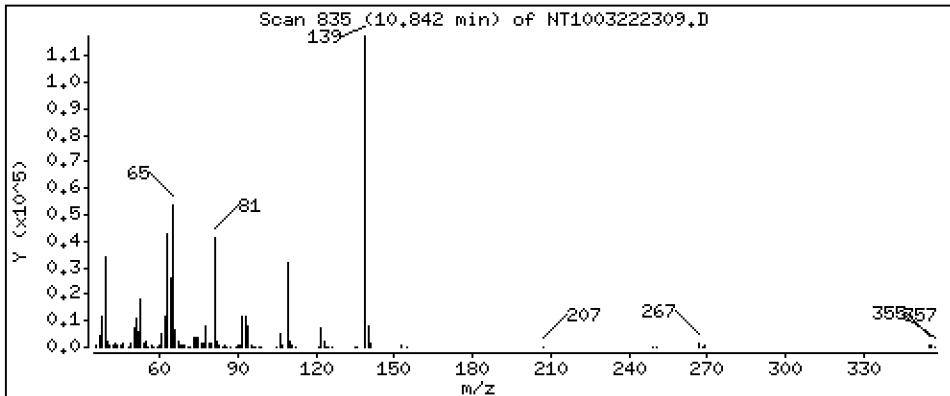
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 6,827 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

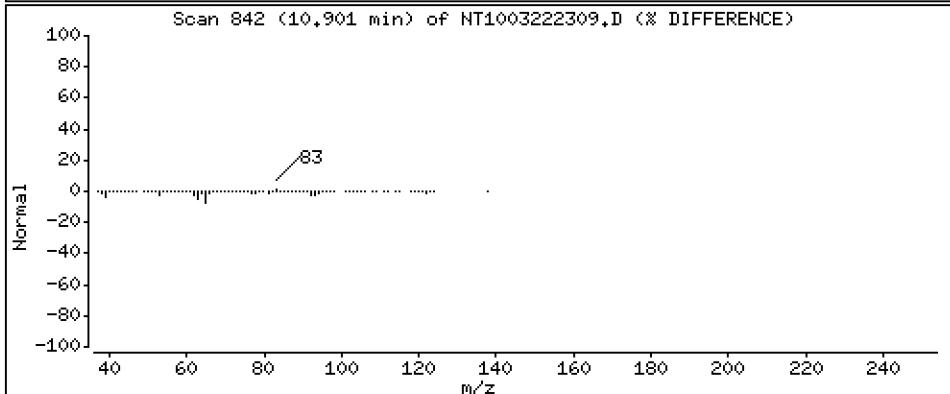
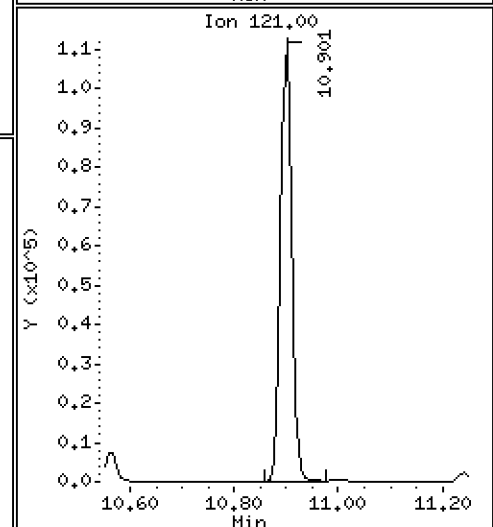
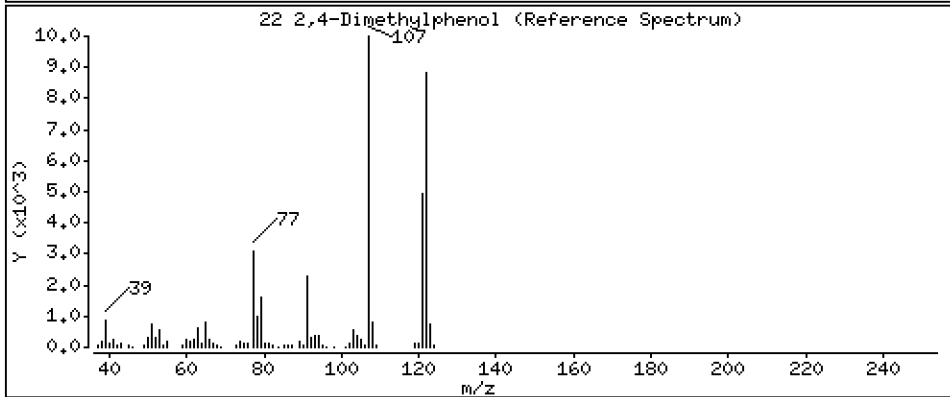
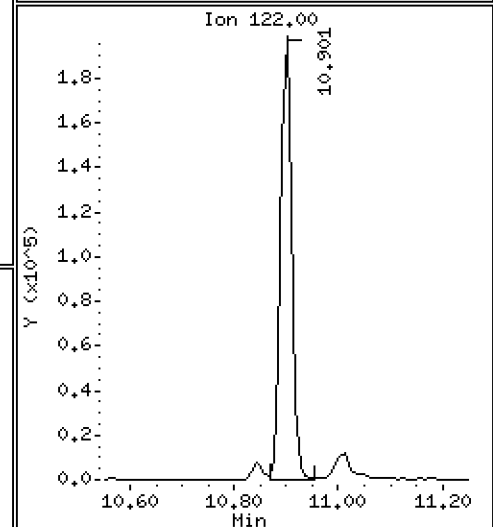
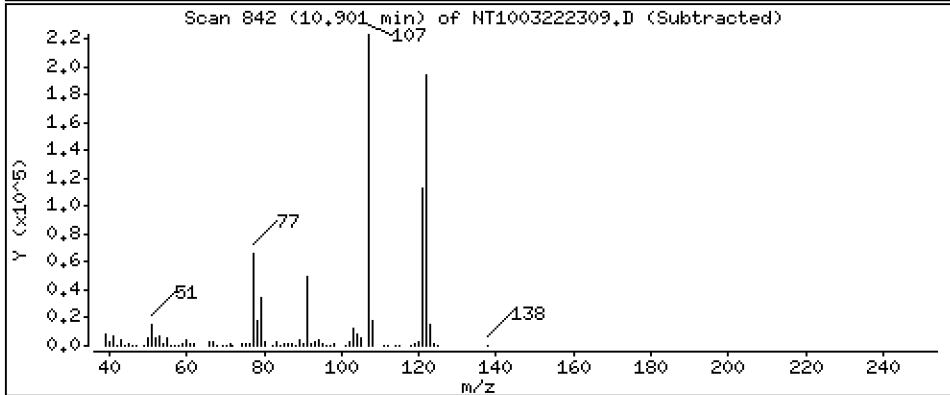
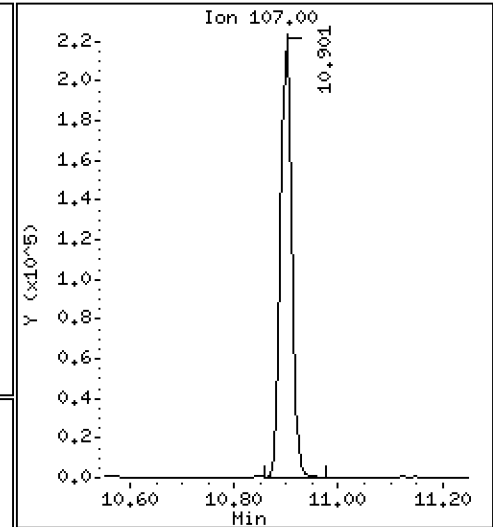
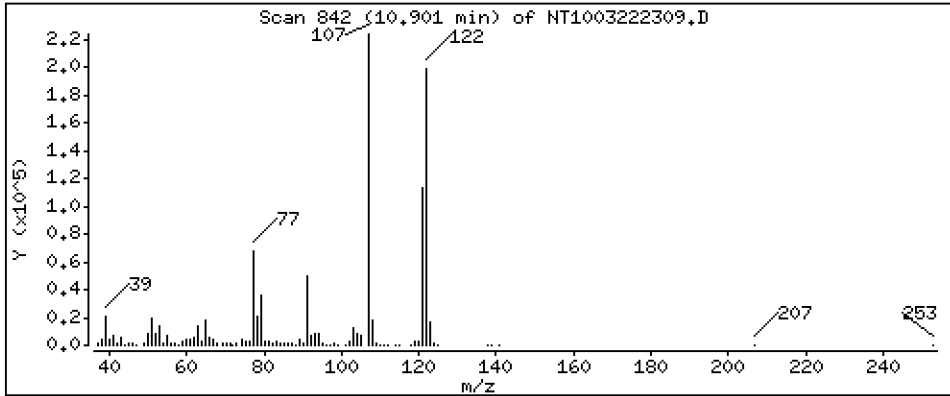
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 5,817 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

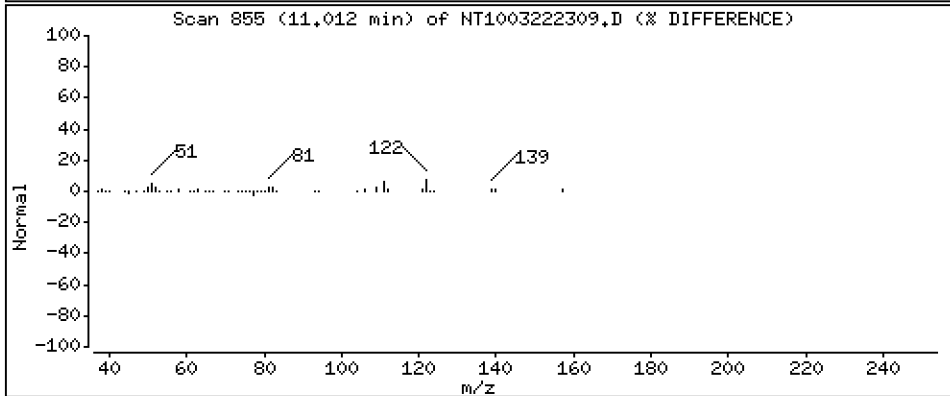
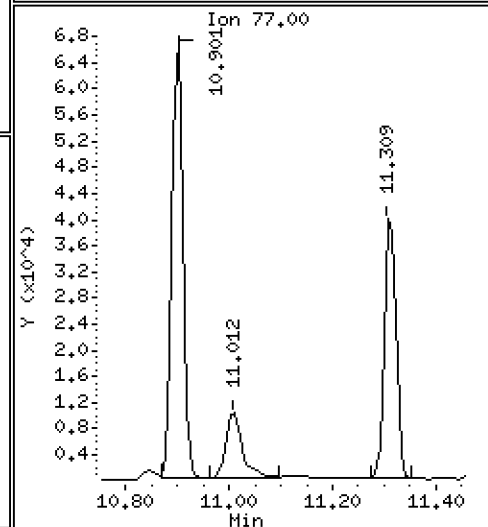
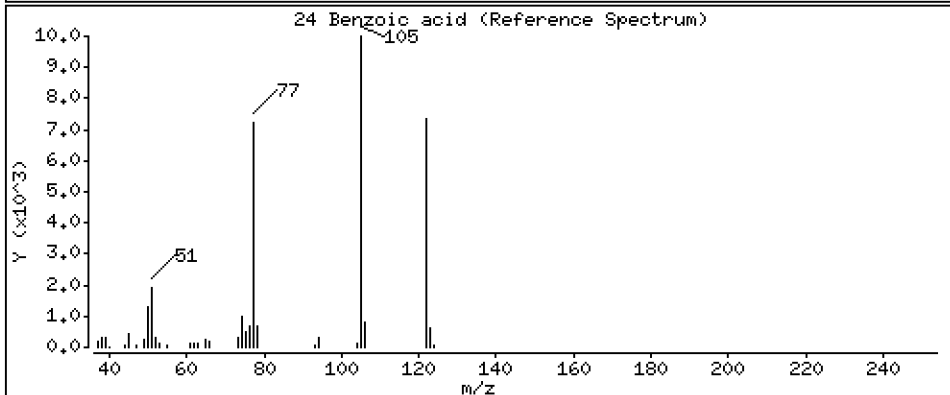
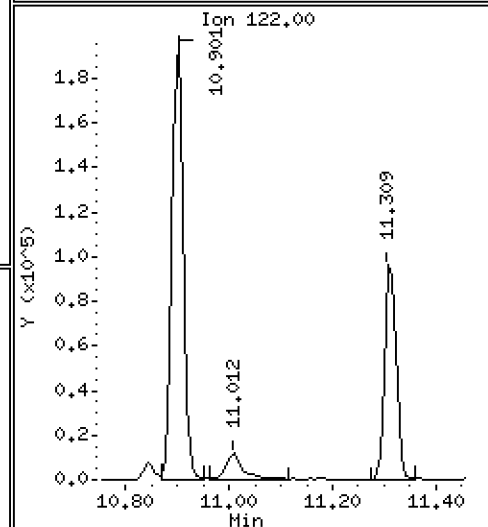
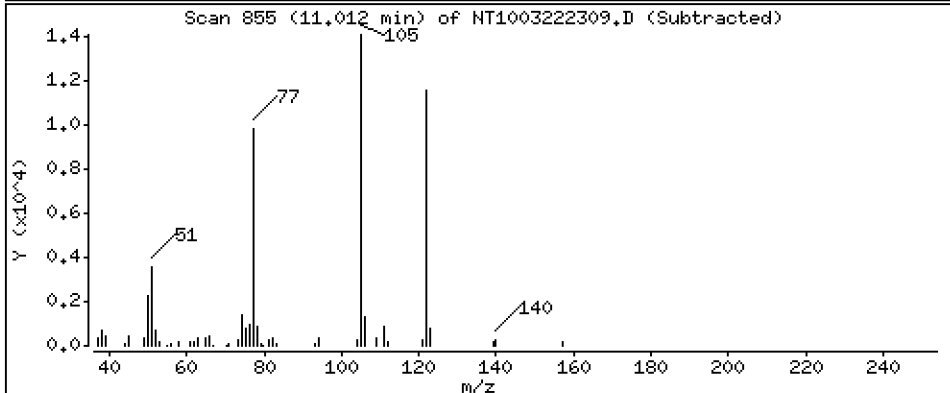
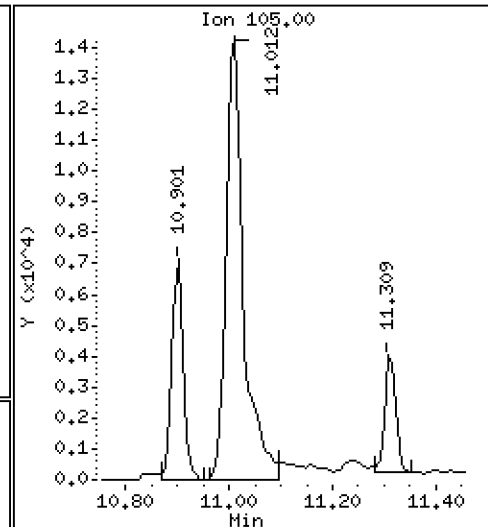
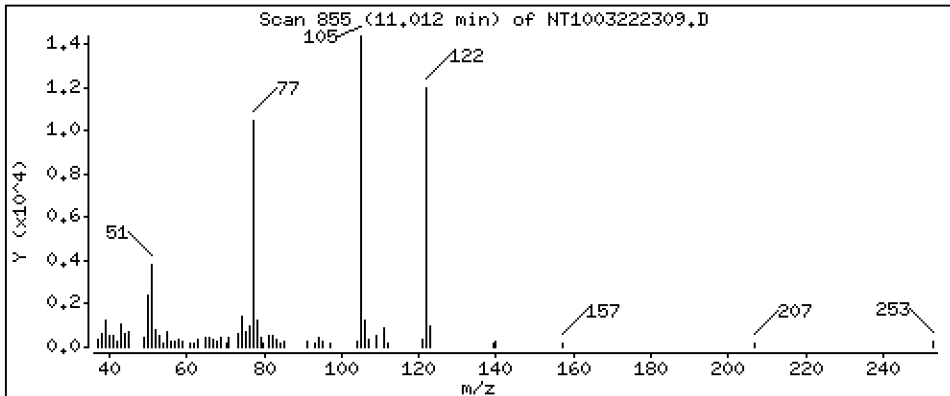
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 1.072 ug/mL





Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

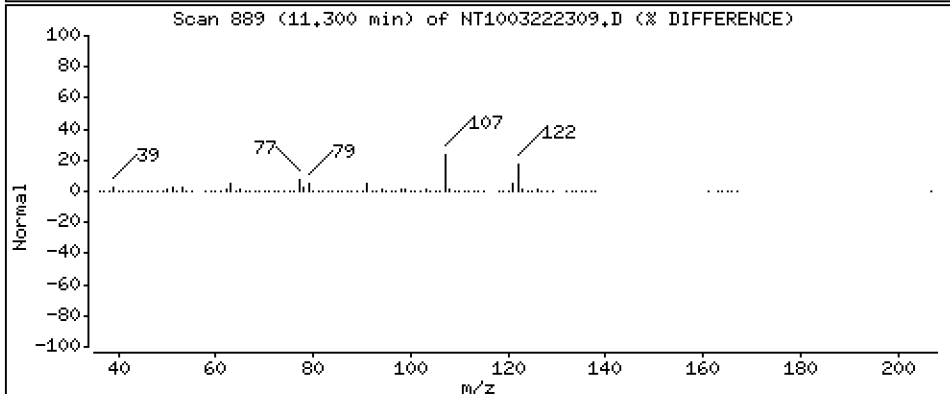
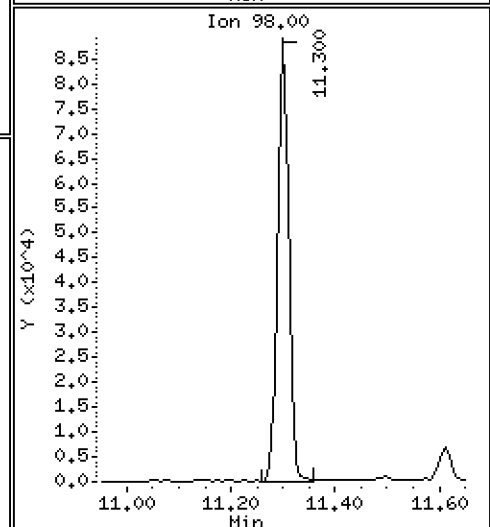
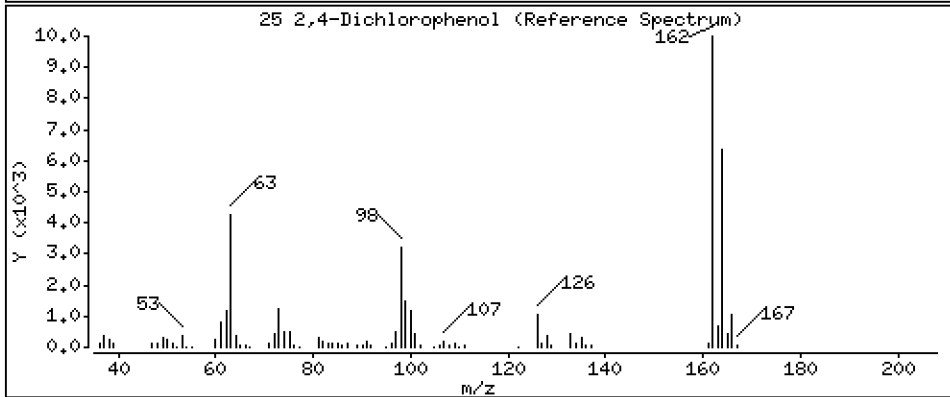
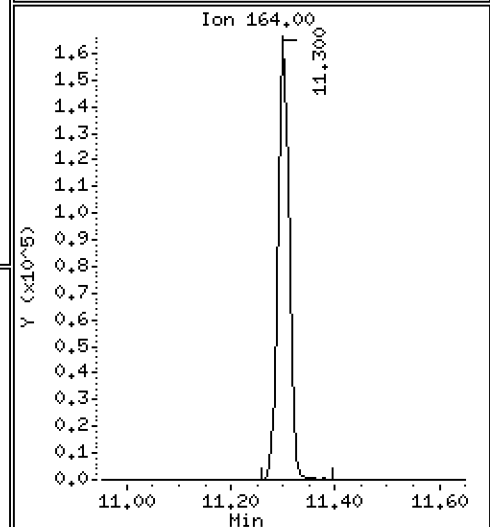
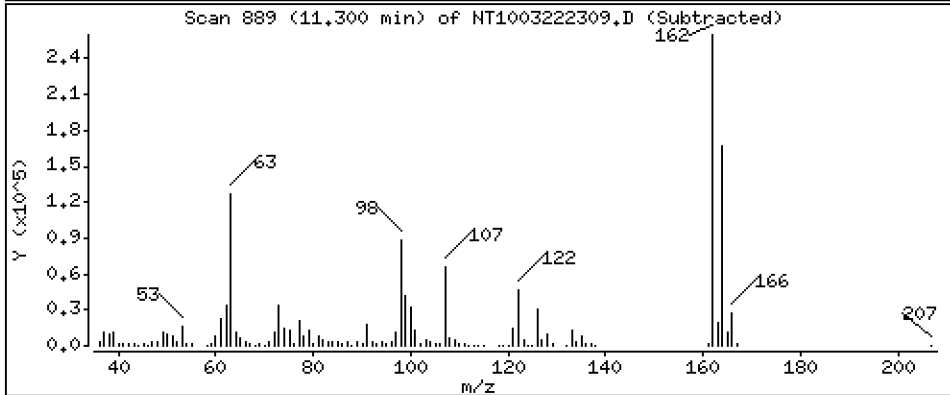
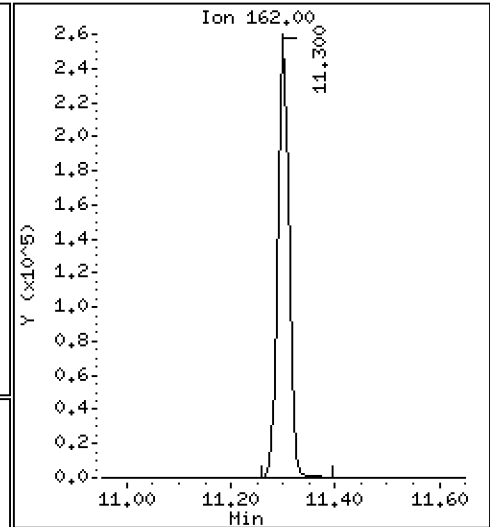
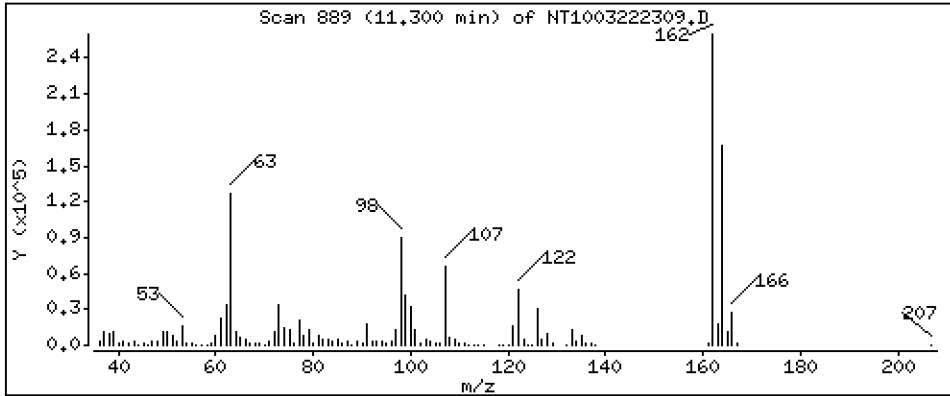
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 8,408 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

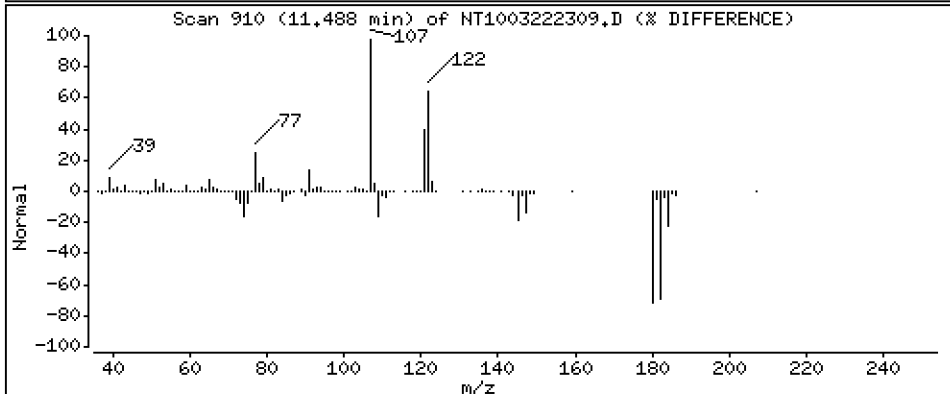
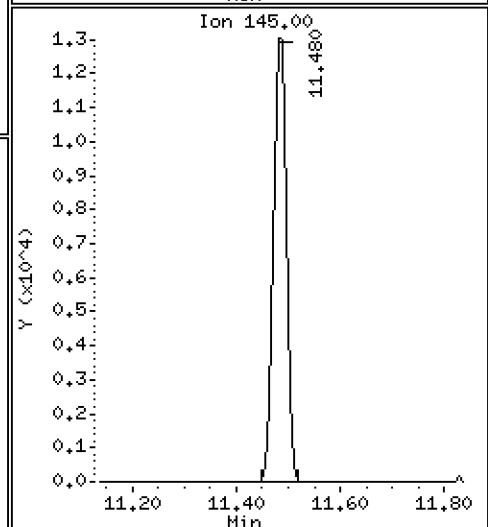
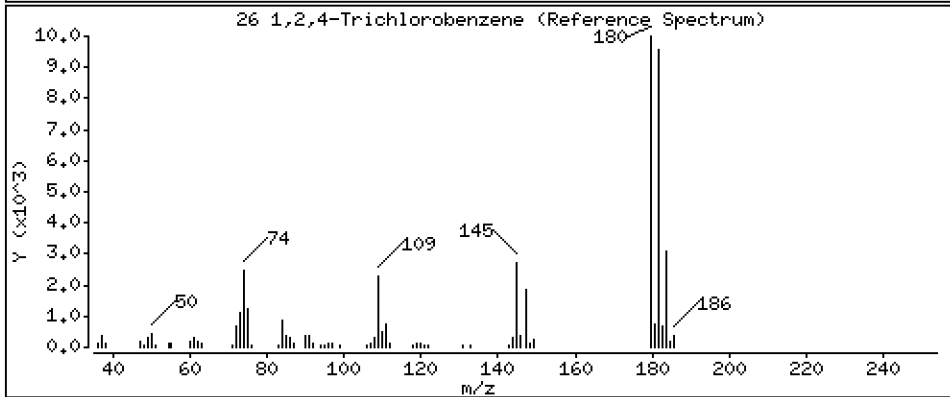
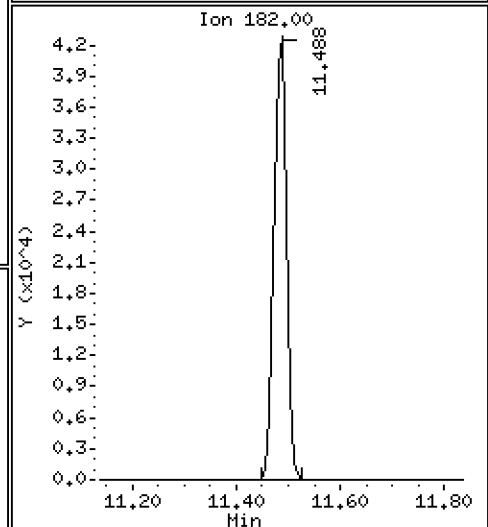
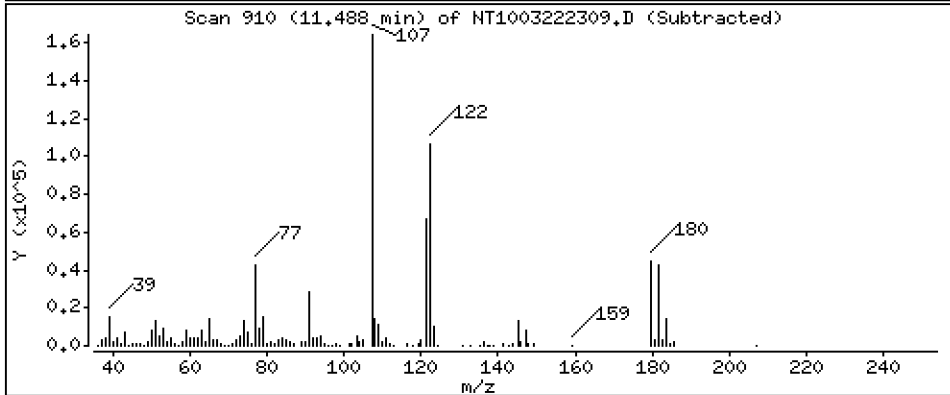
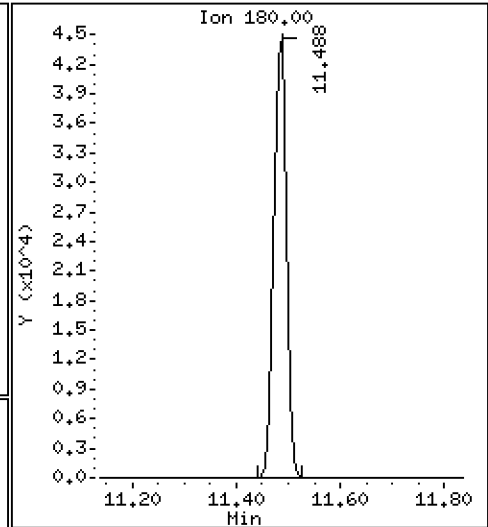
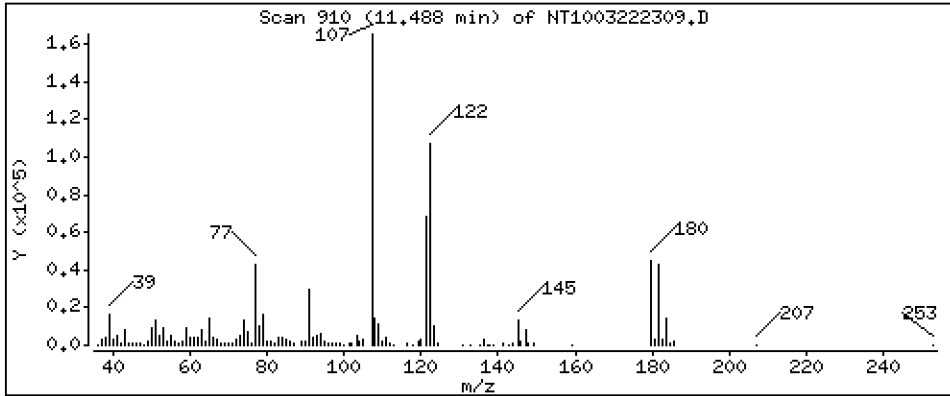
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 1,350 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

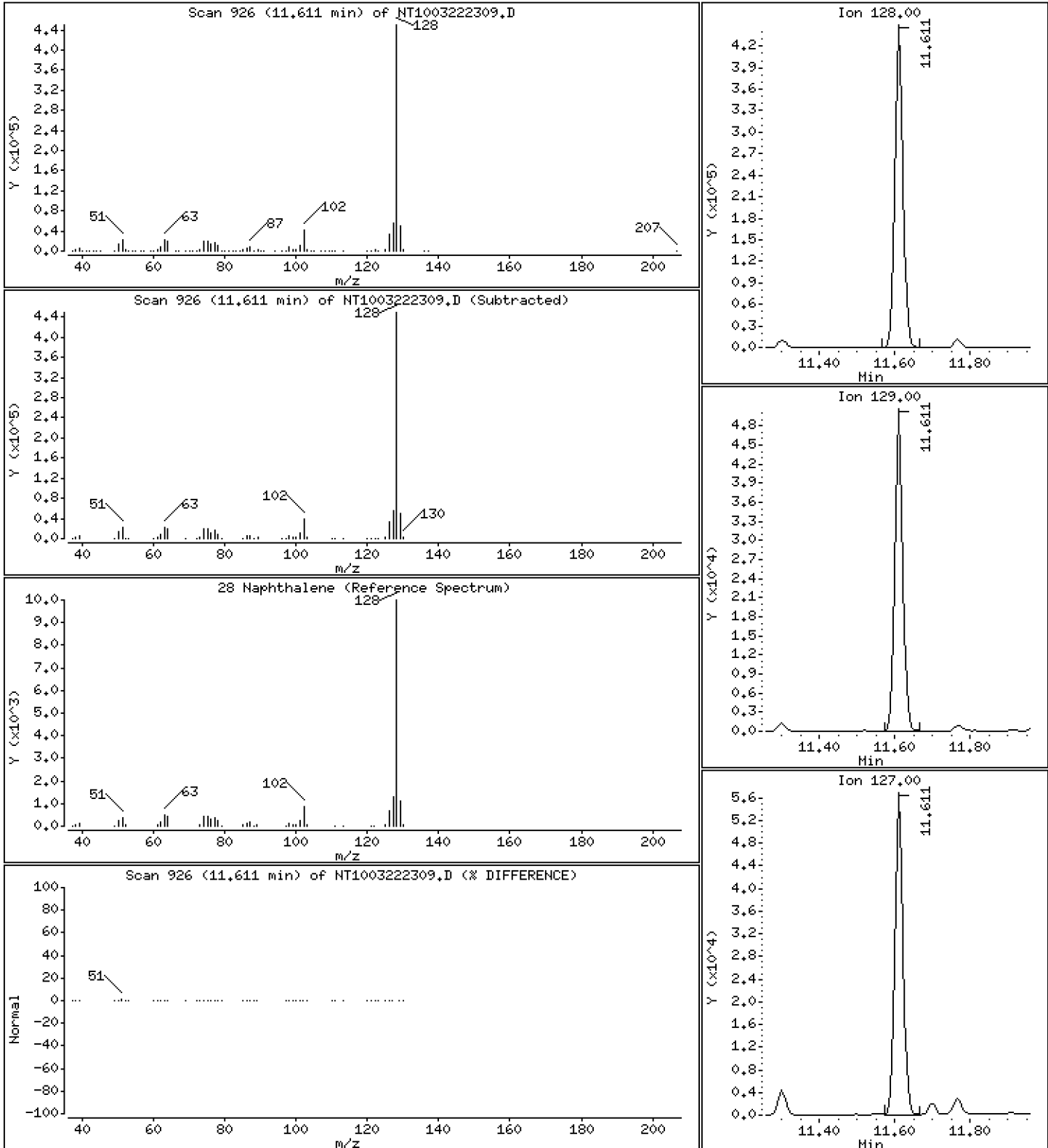
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 4.038 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

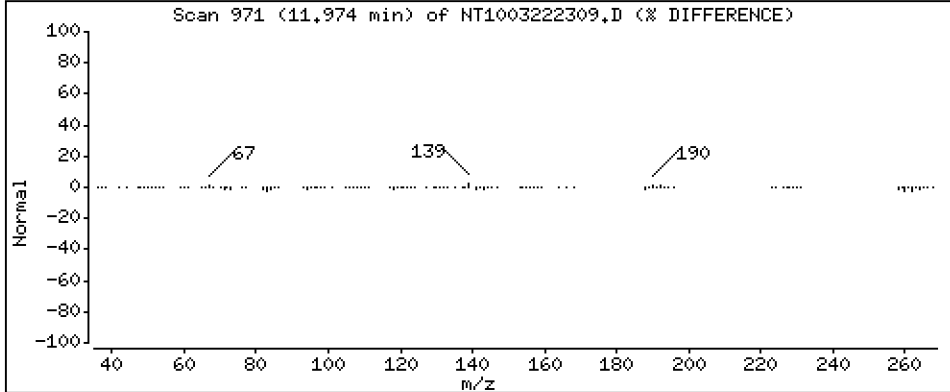
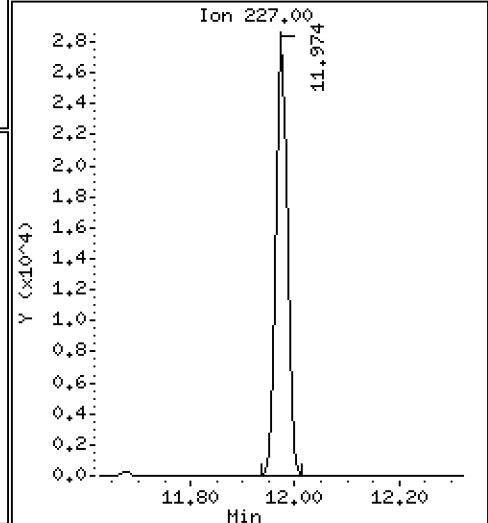
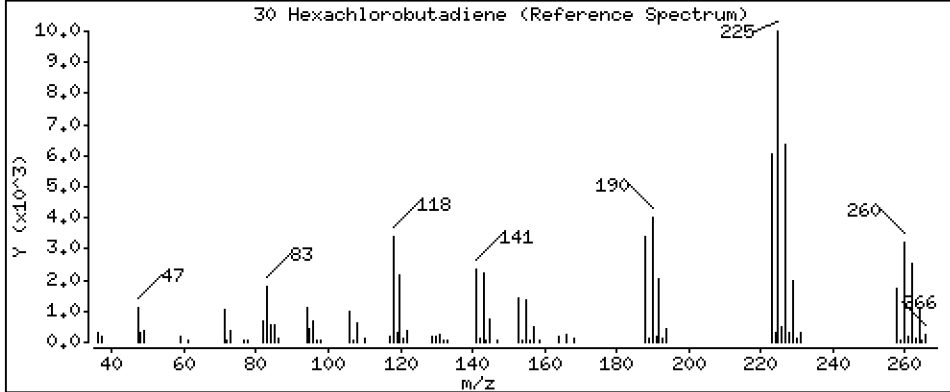
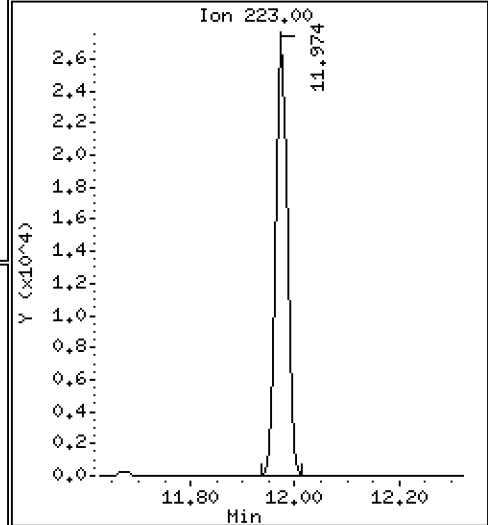
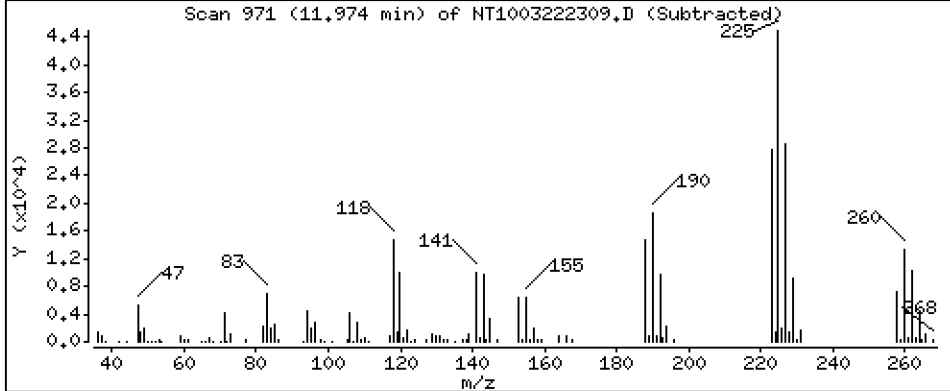
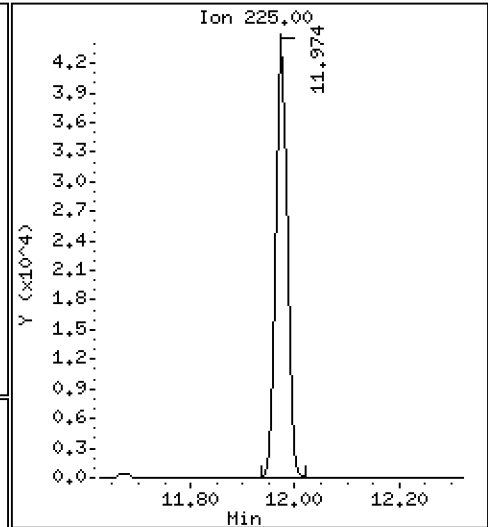
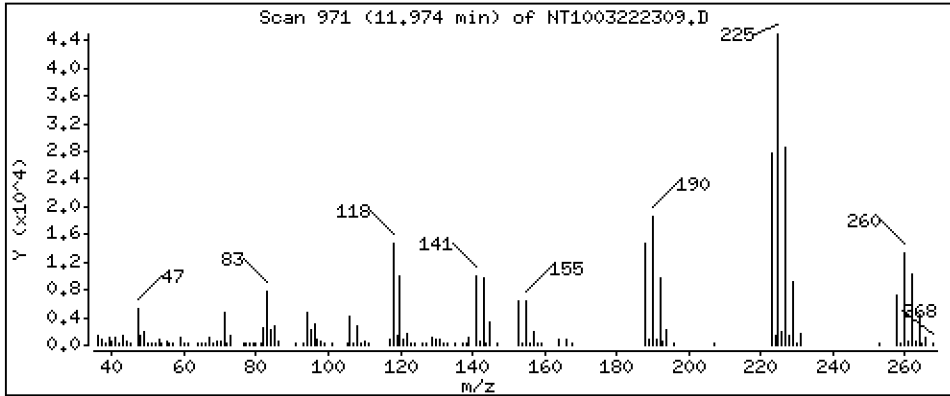
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 2,010 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

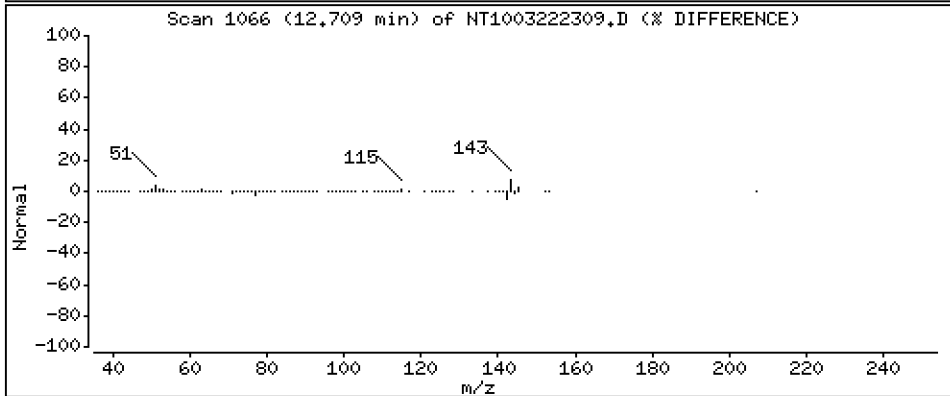
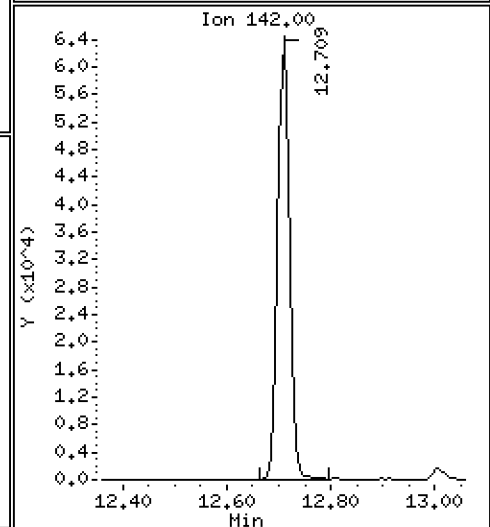
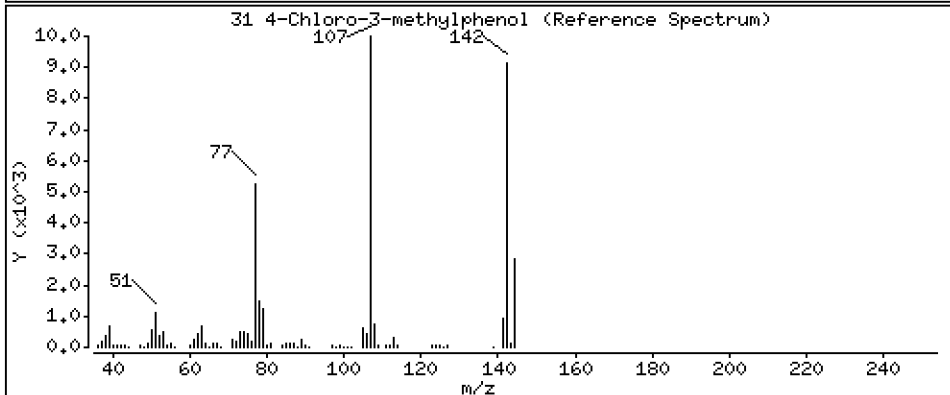
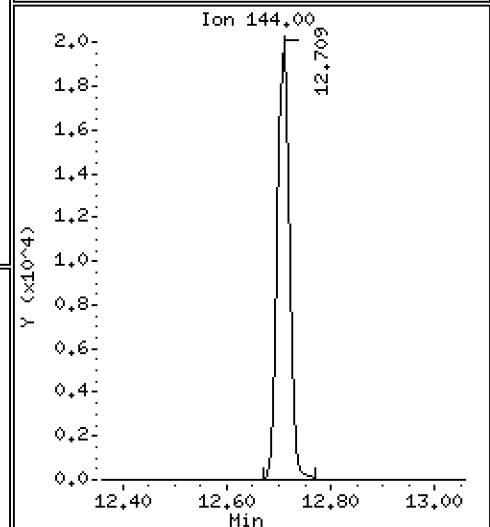
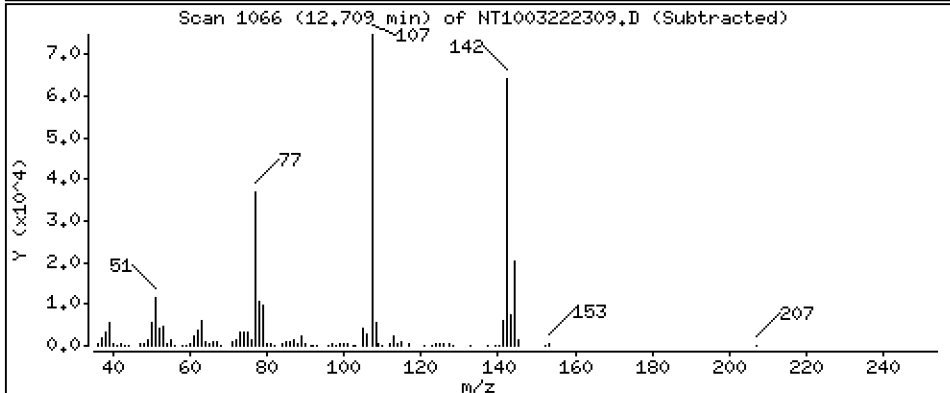
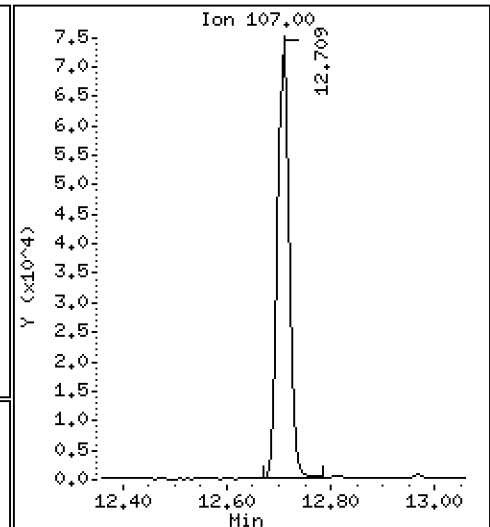
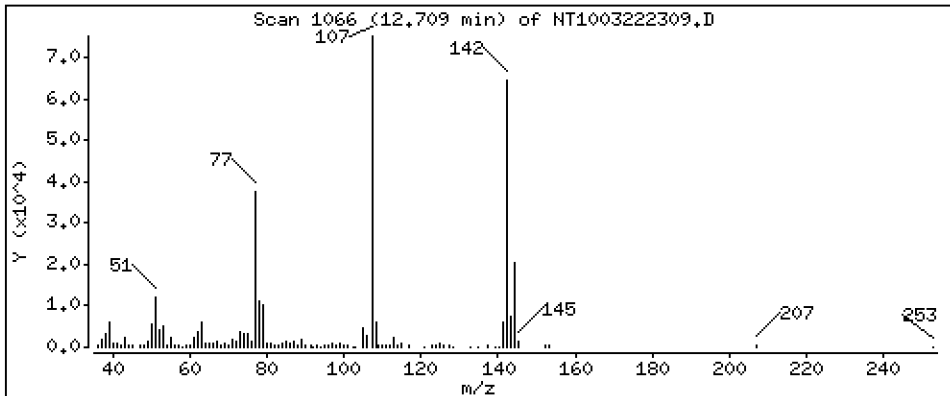
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 2,189 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

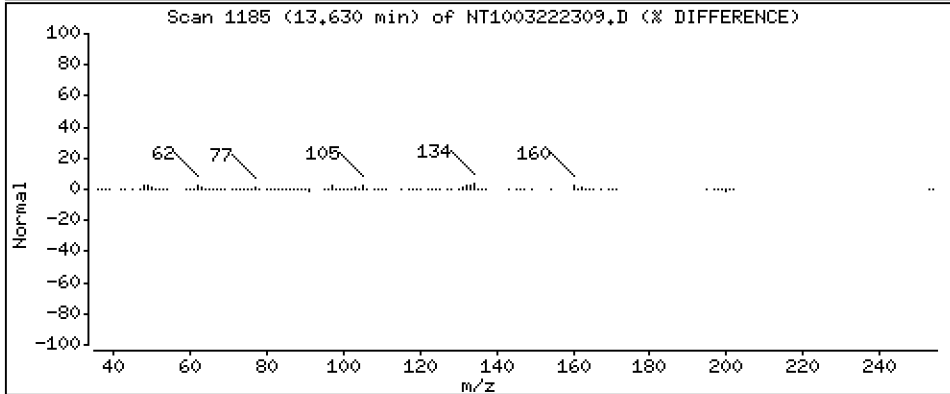
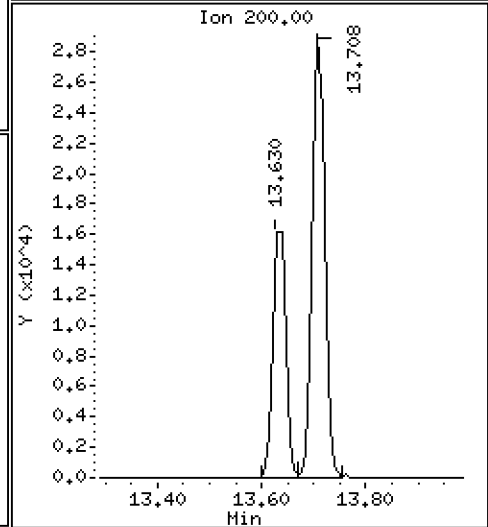
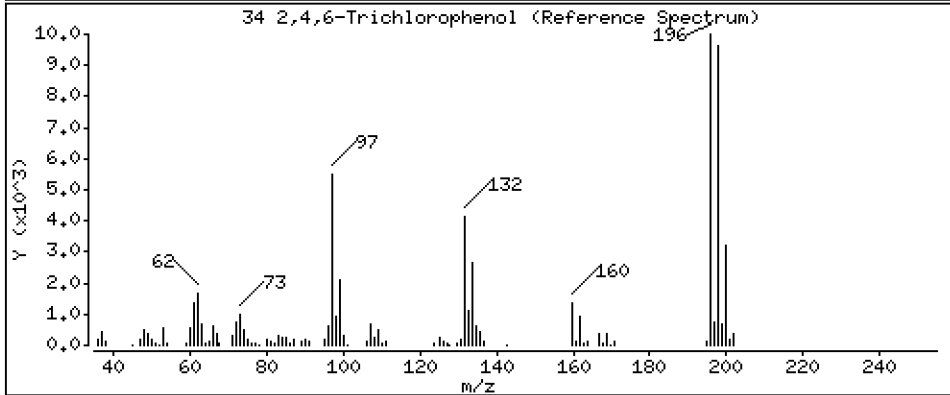
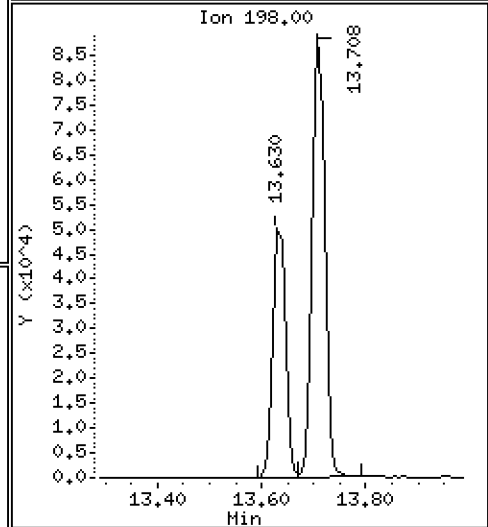
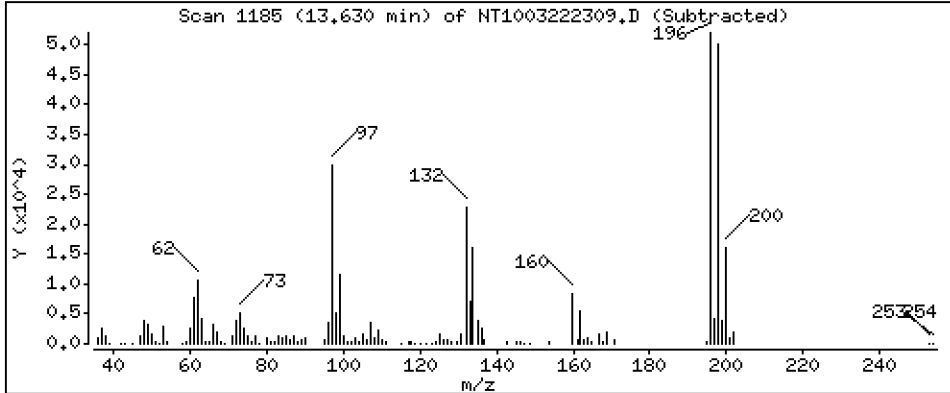
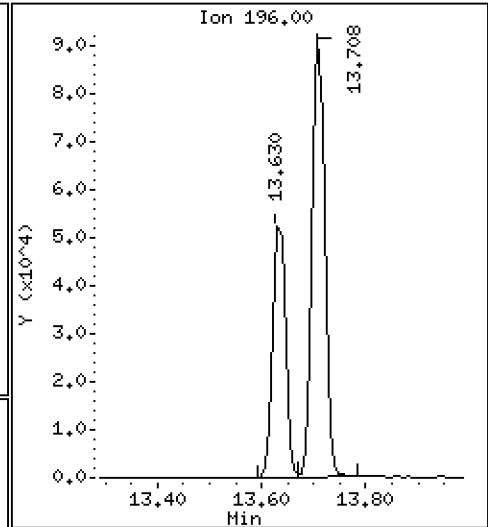
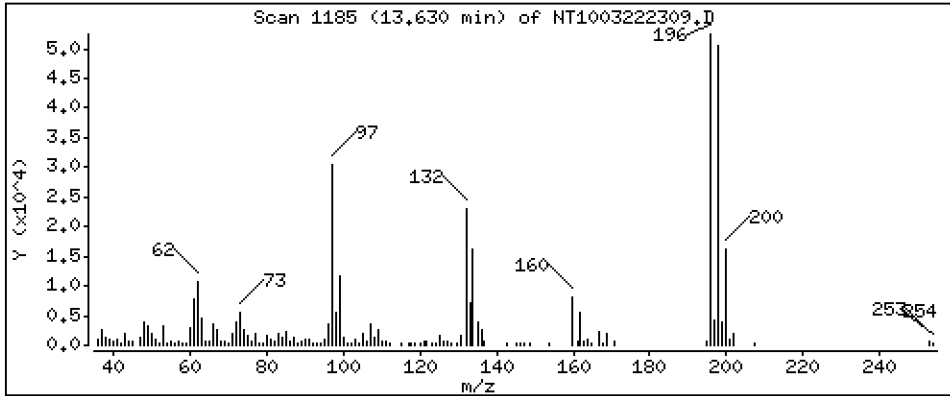
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 2,487 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

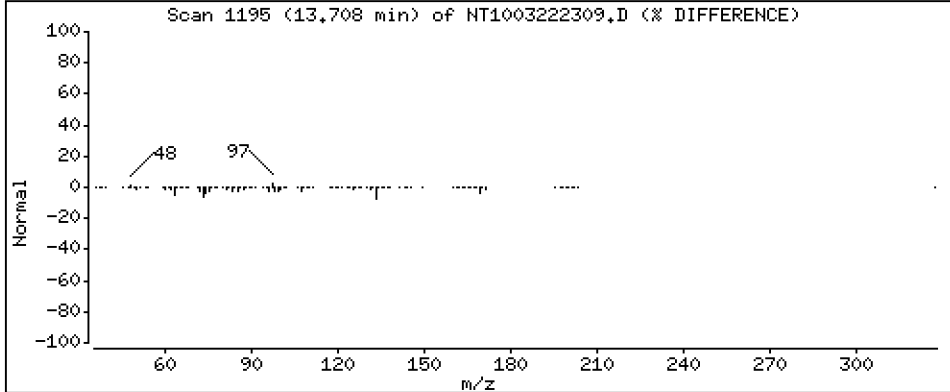
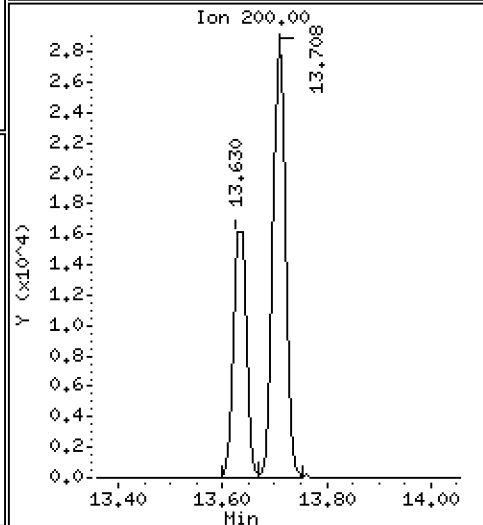
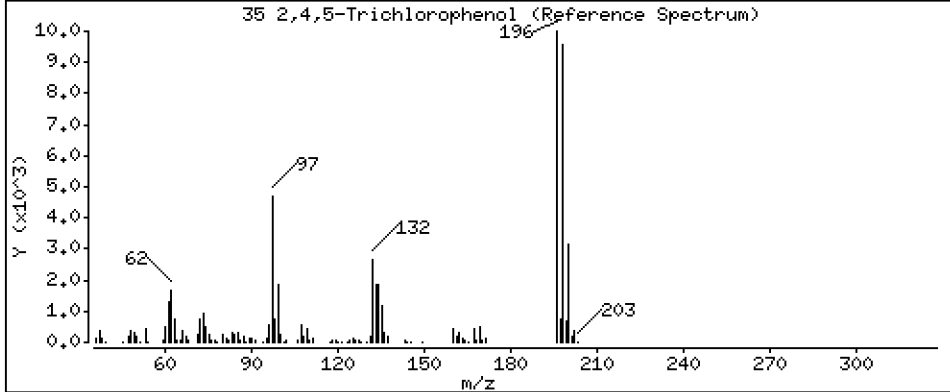
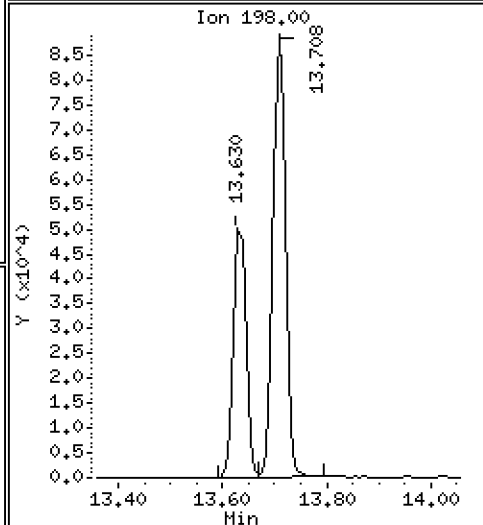
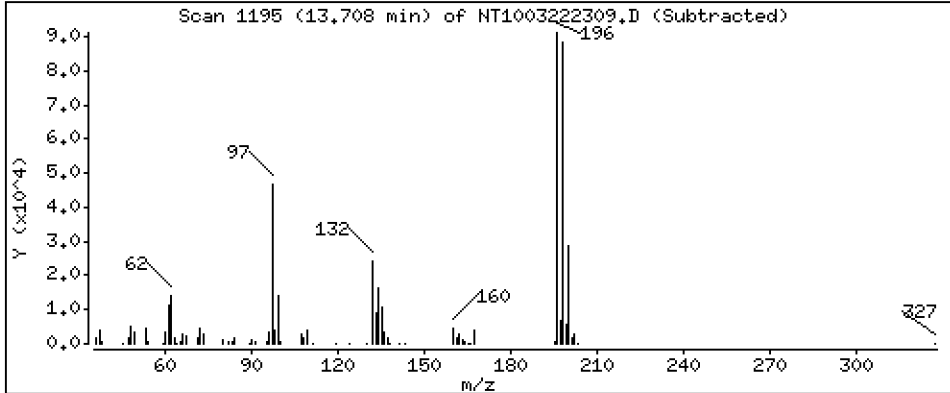
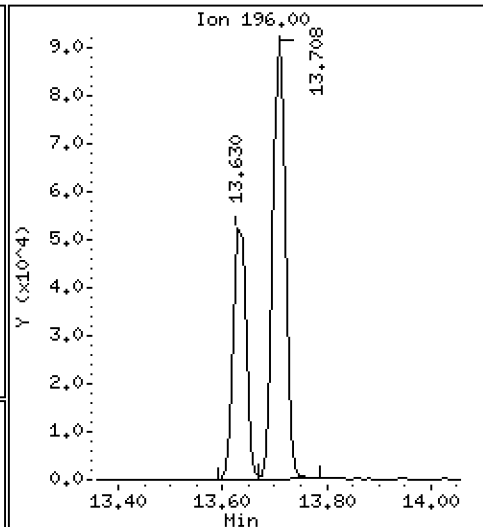
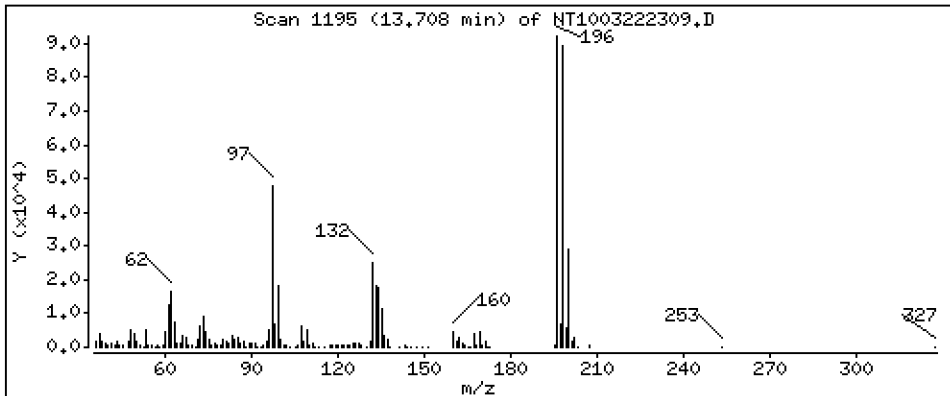
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 3,824 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

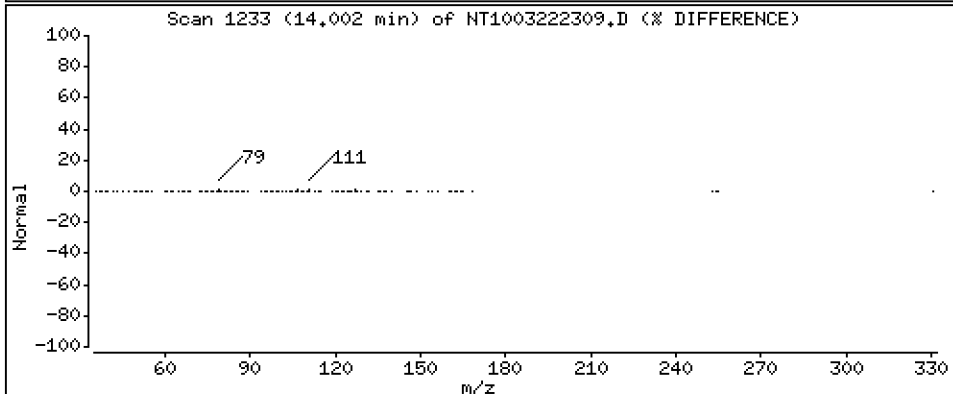
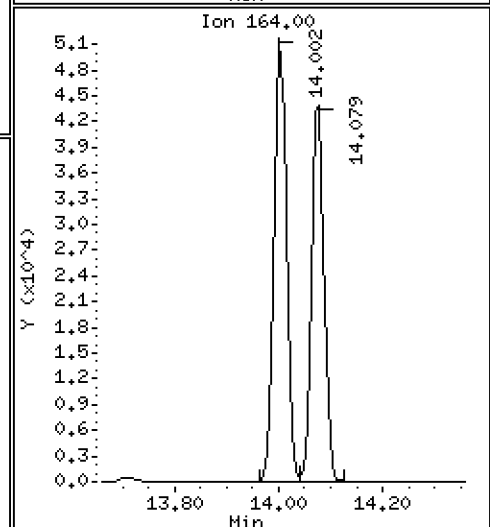
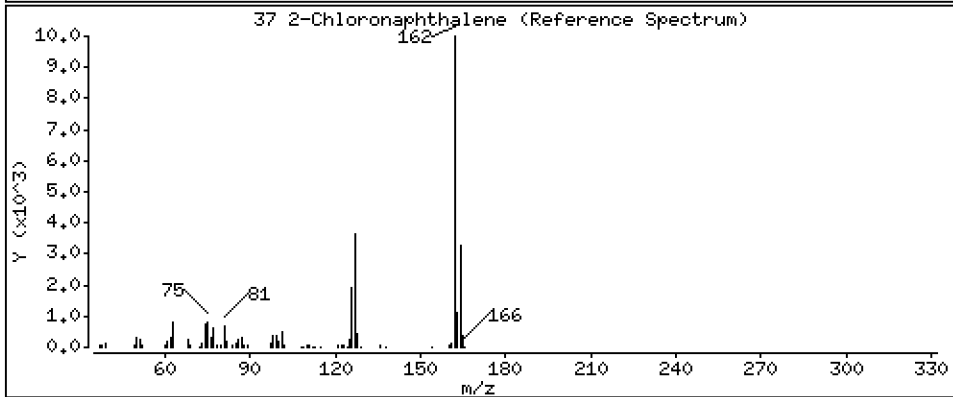
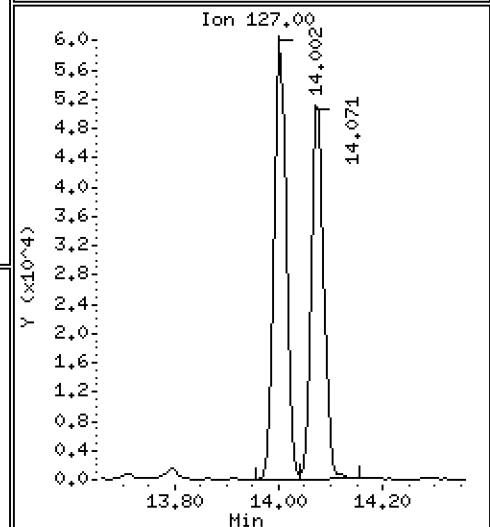
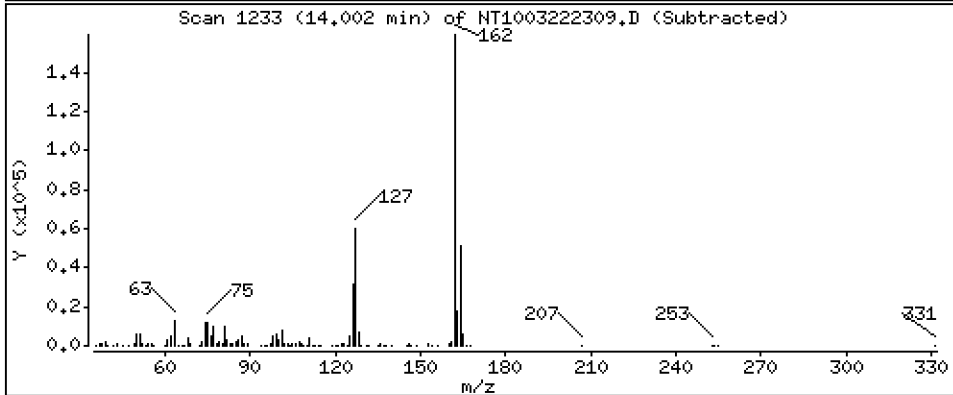
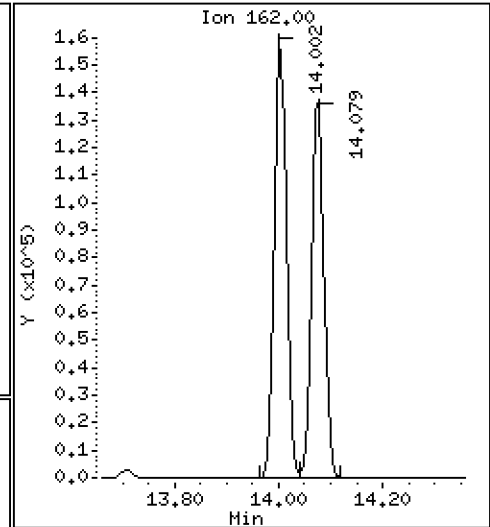
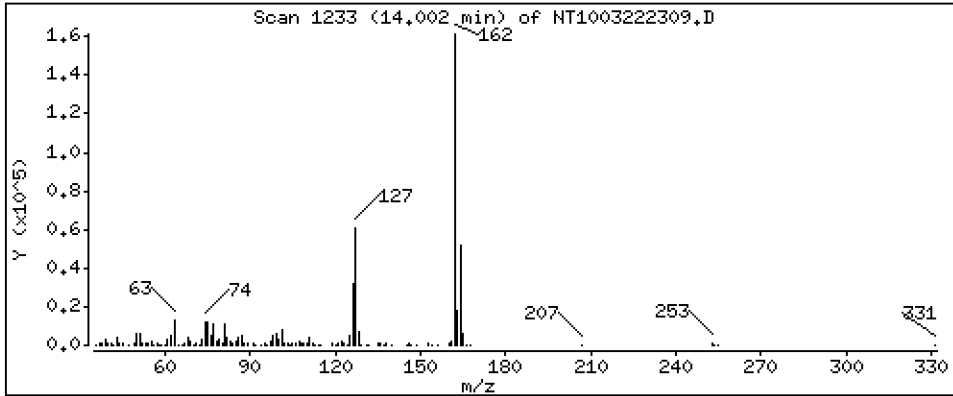
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 2,159 ug/mL





Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

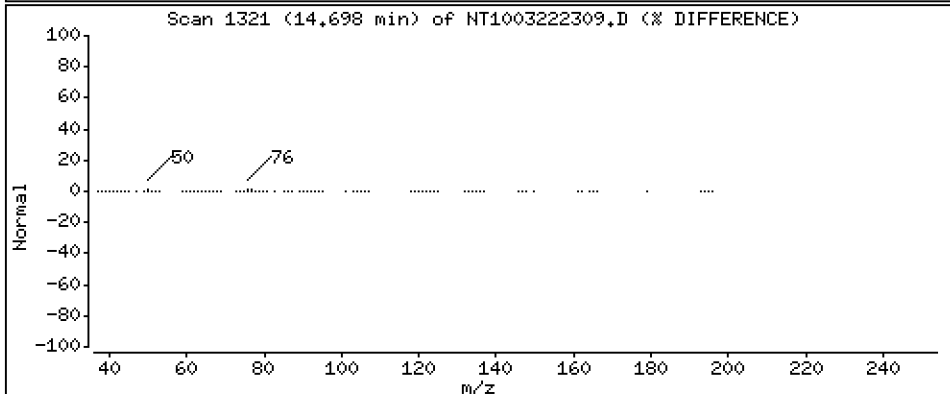
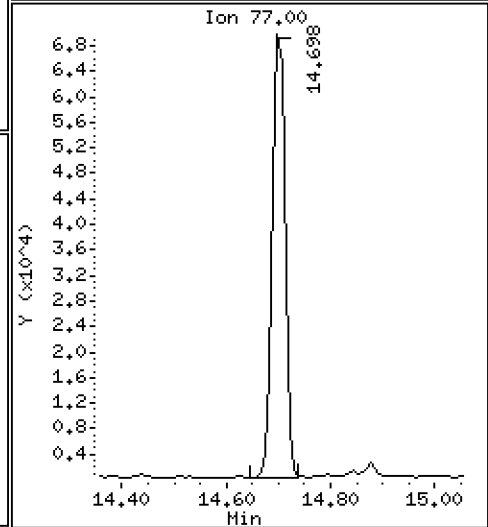
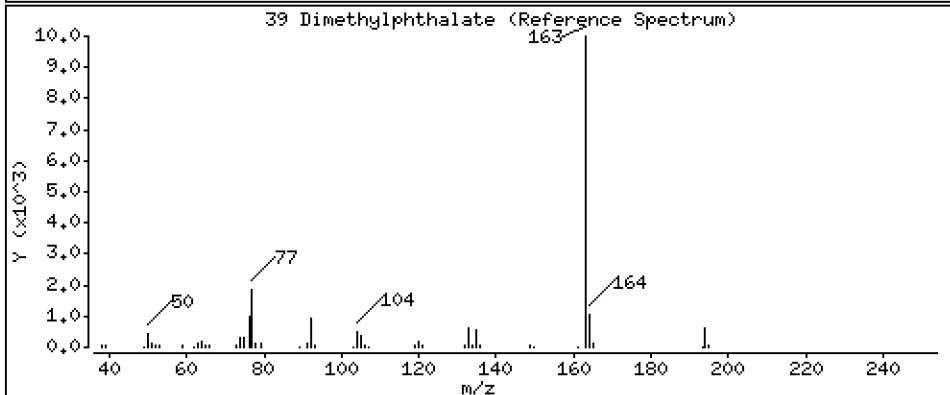
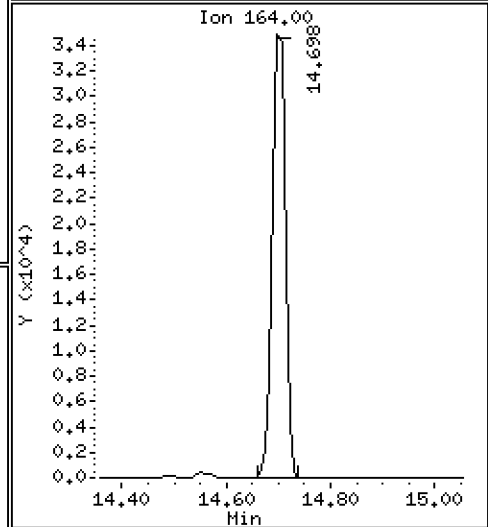
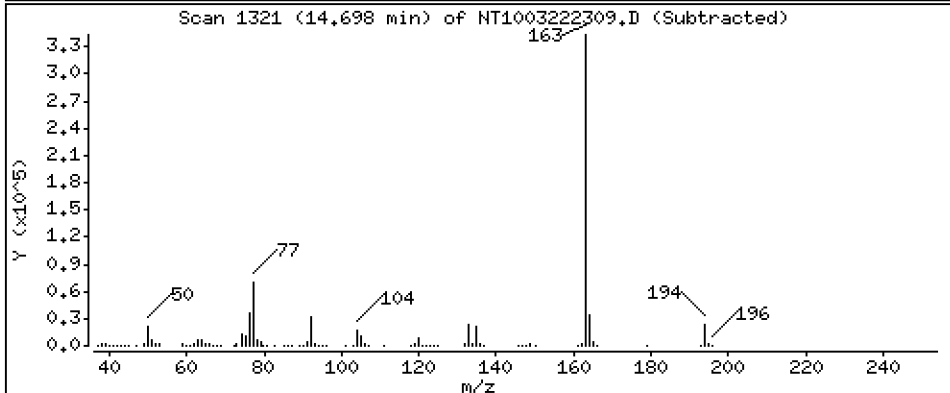
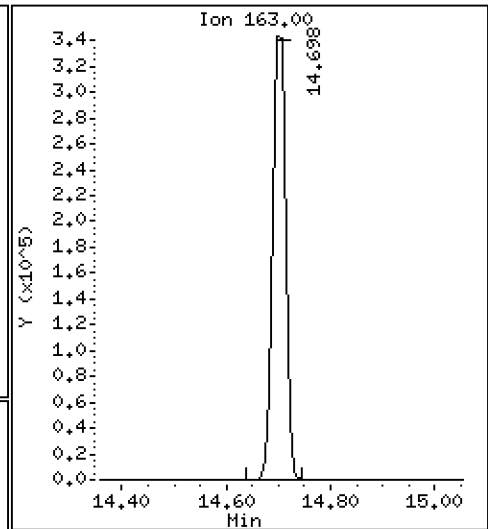
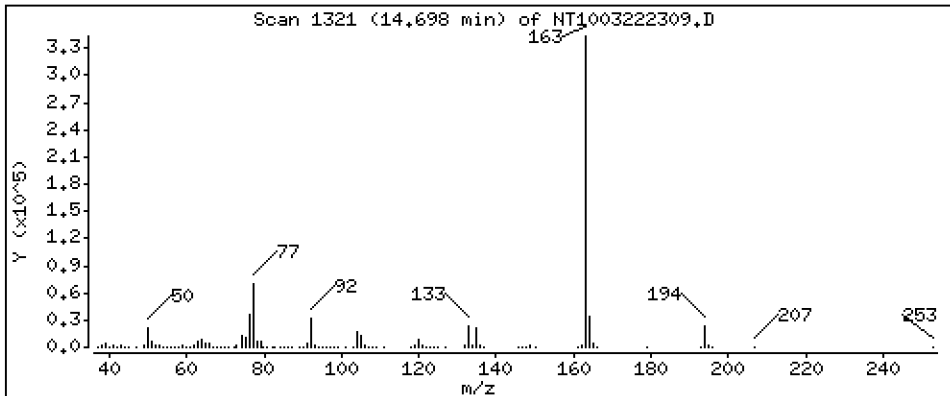
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,978 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

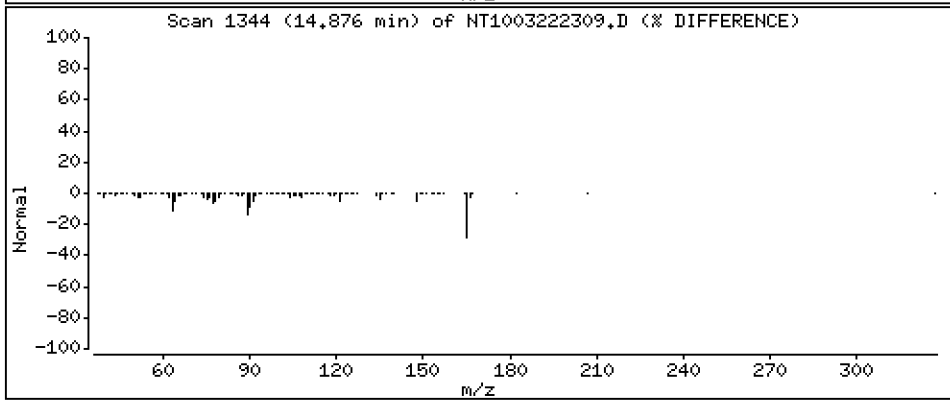
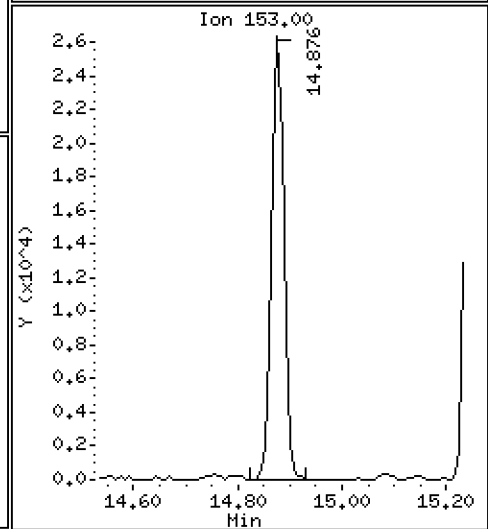
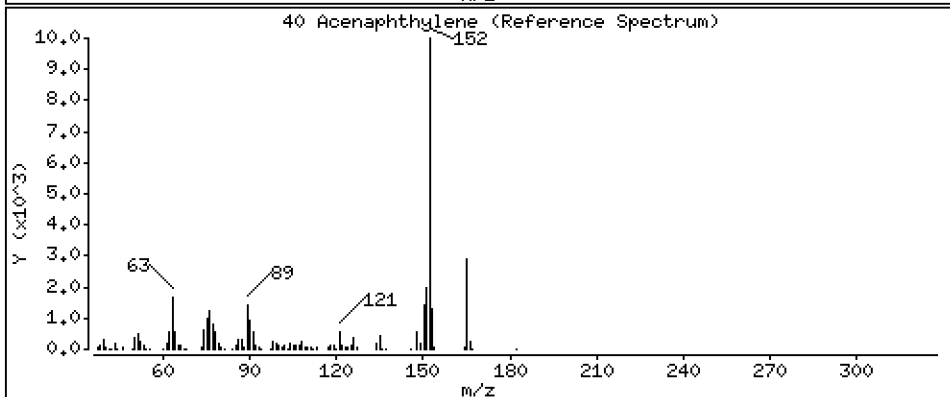
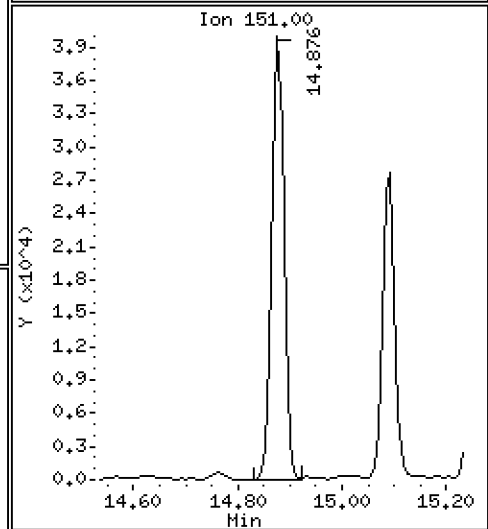
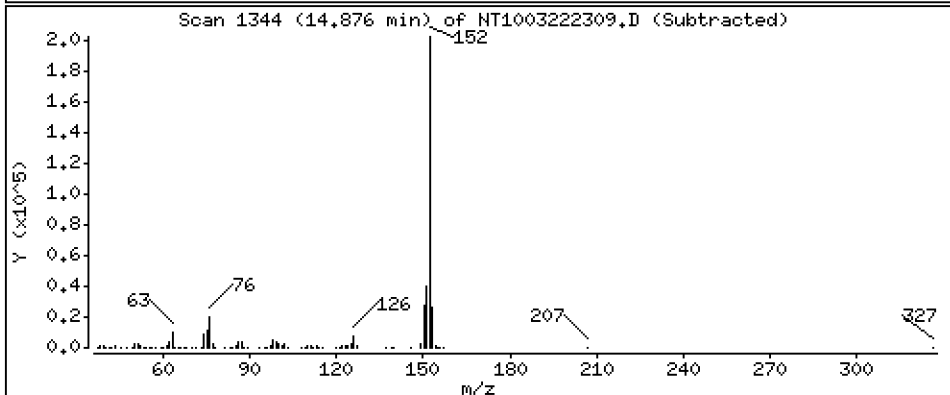
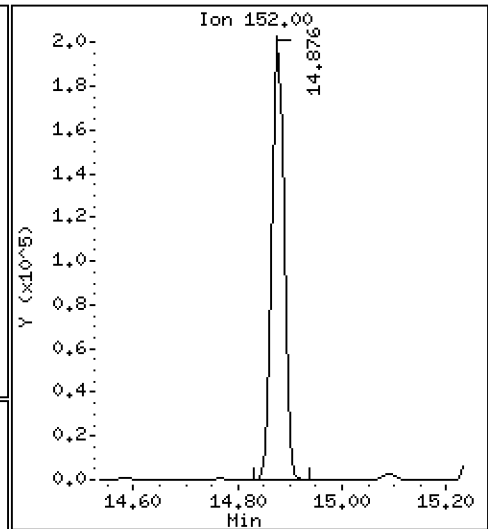
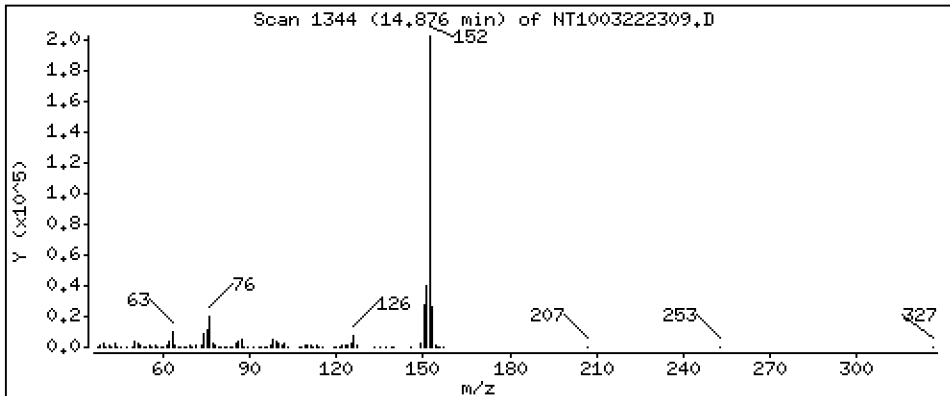
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 1,789 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

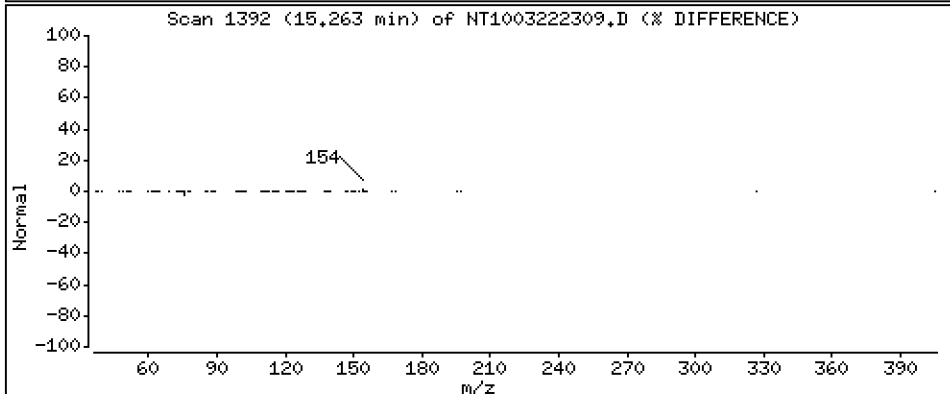
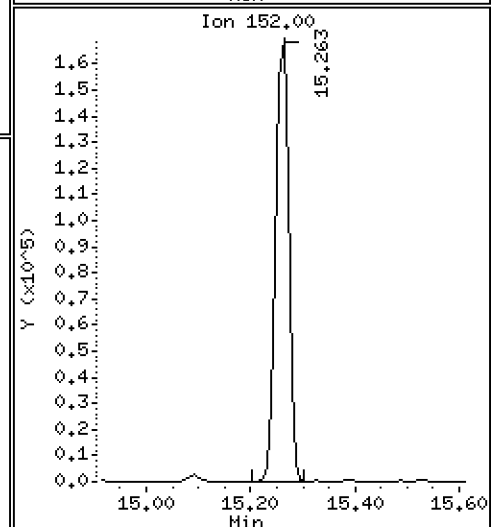
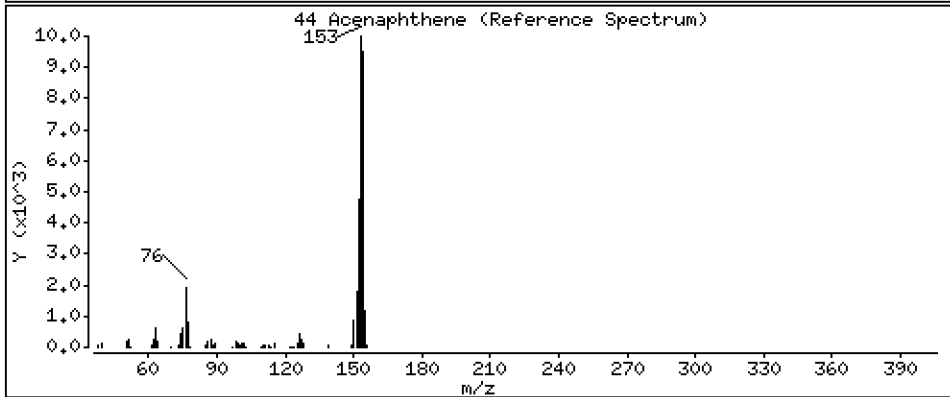
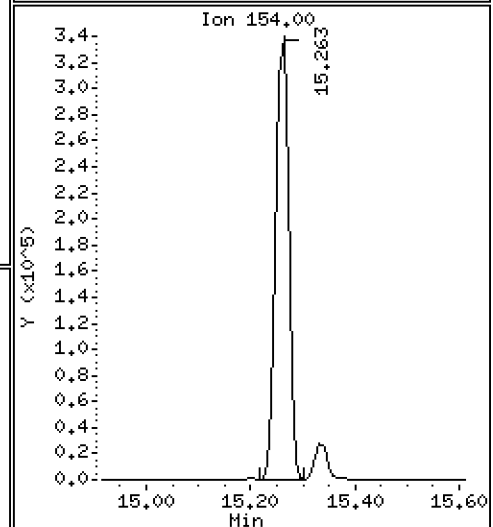
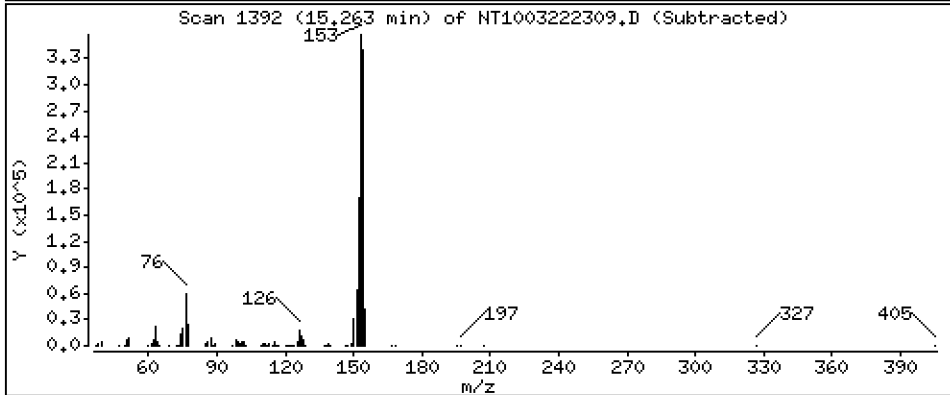
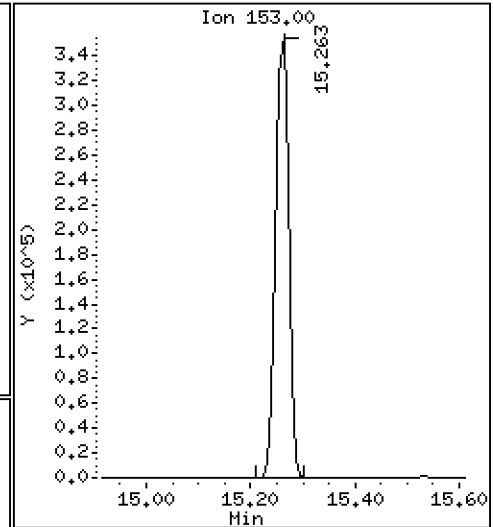
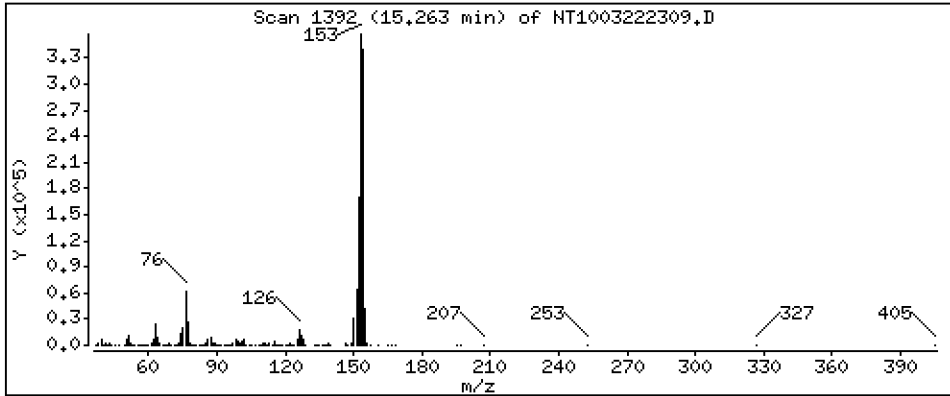
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 5,530 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

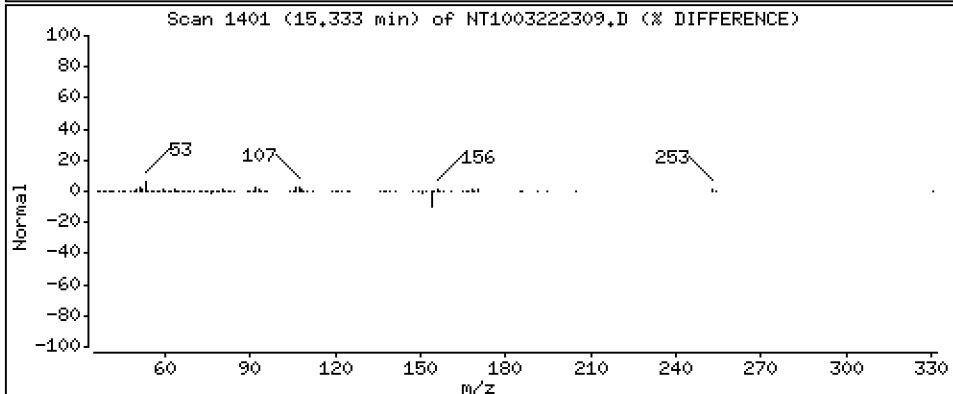
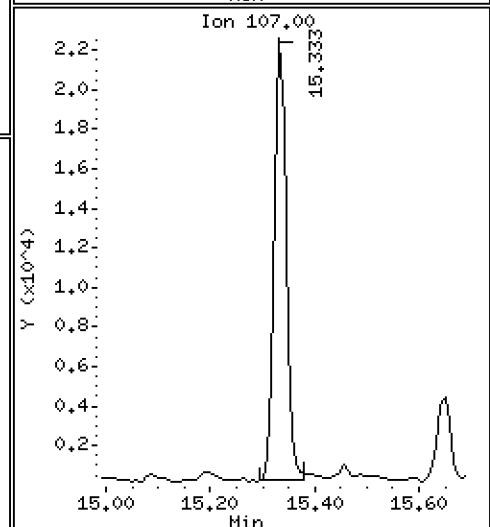
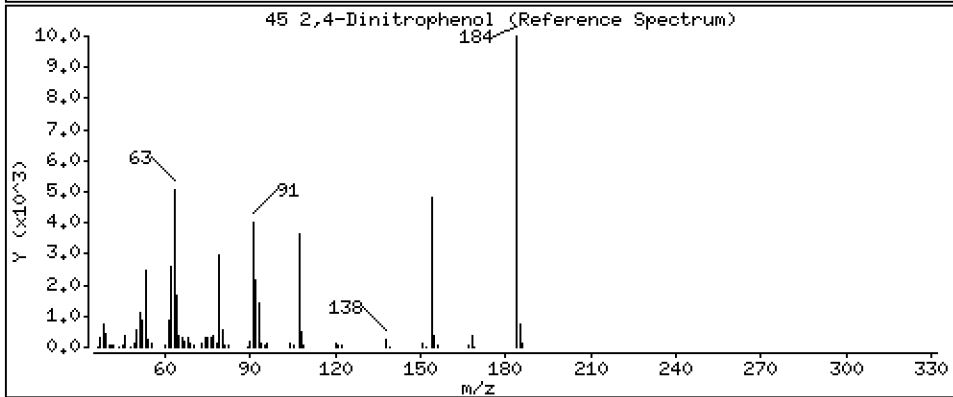
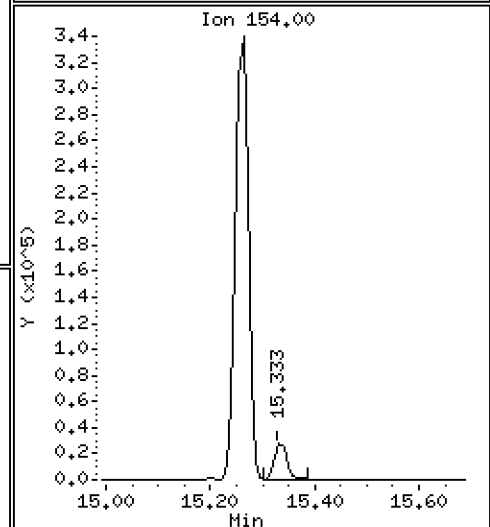
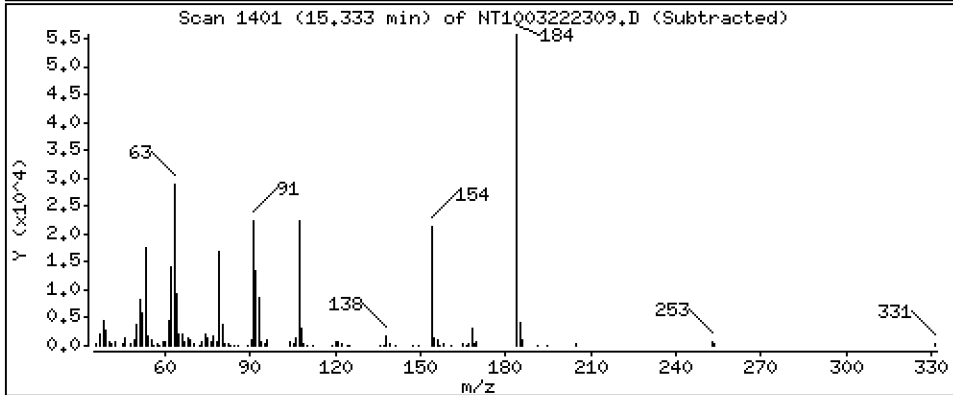
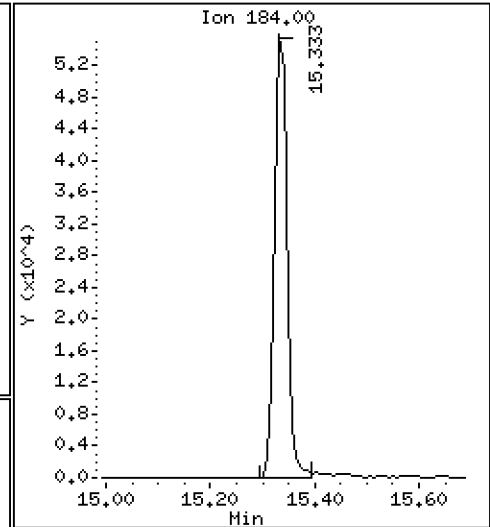
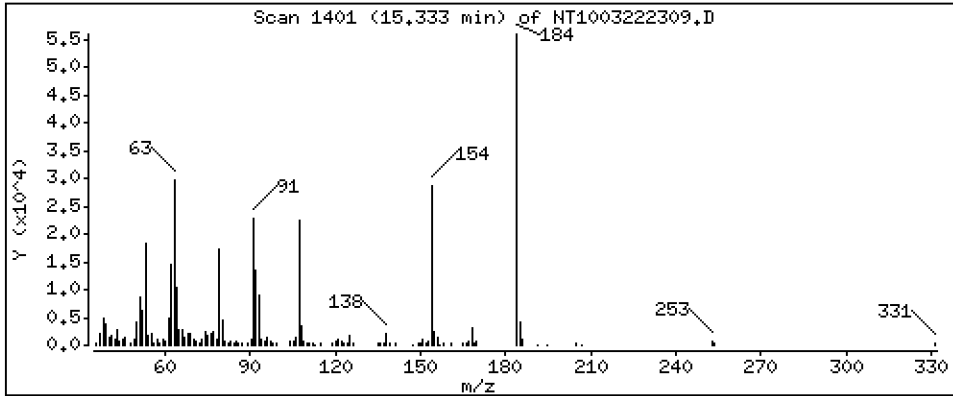
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 5,928 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

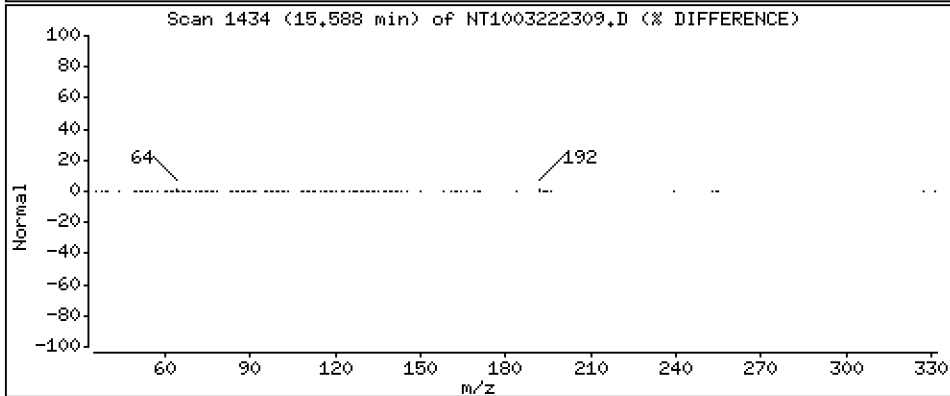
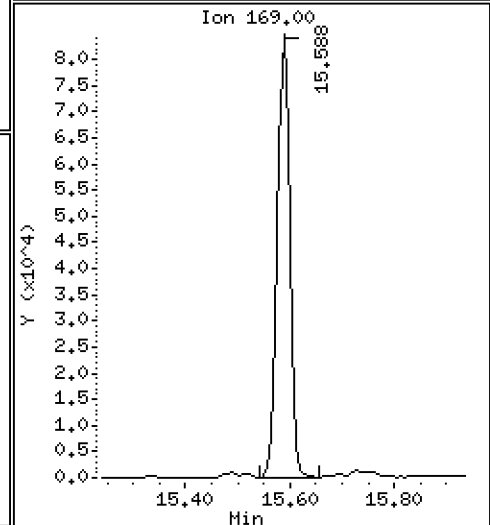
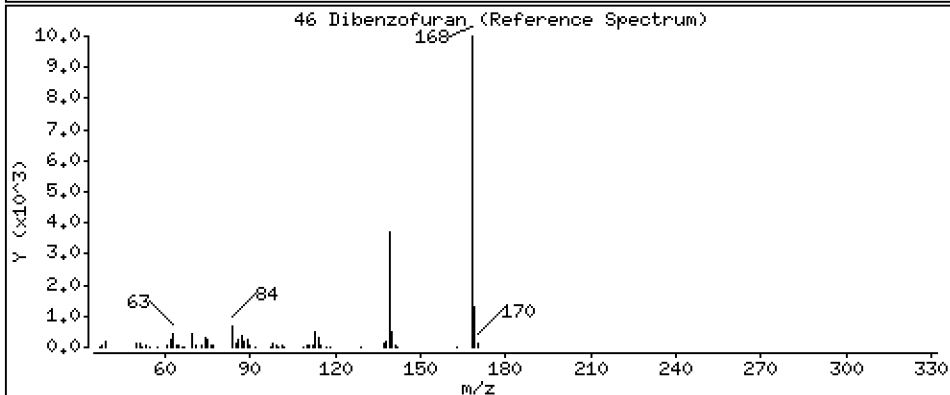
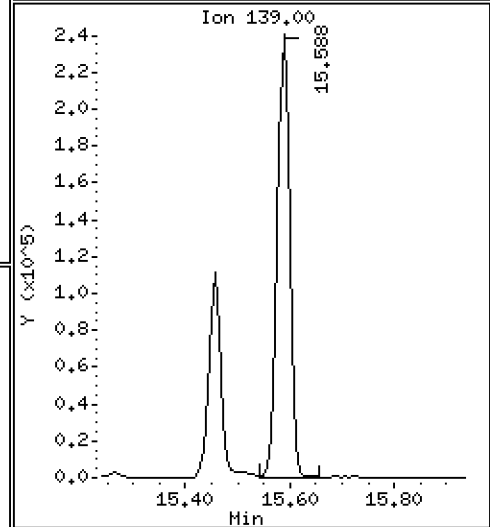
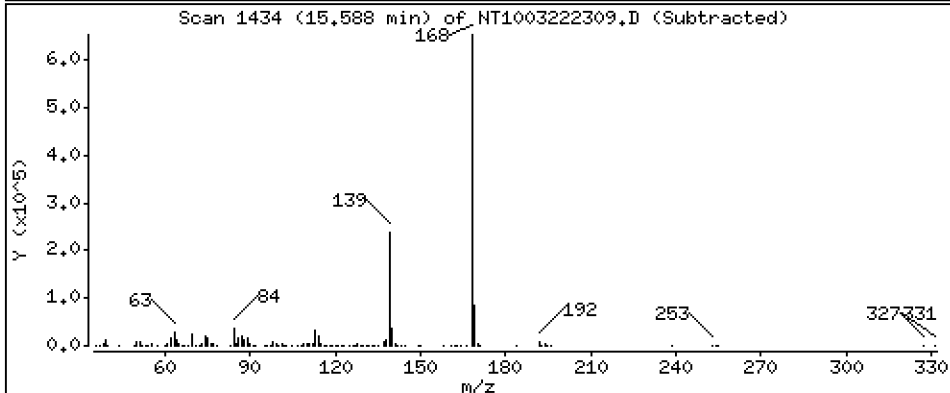
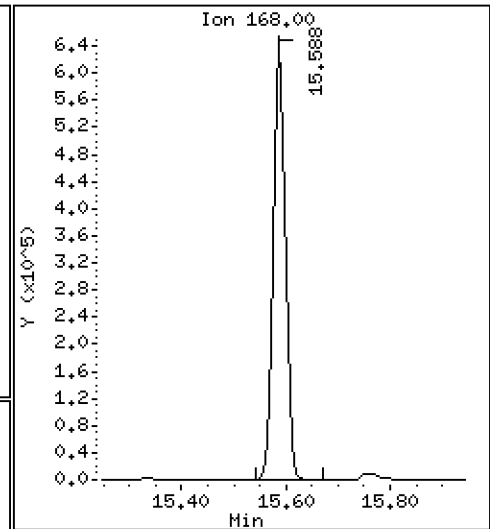
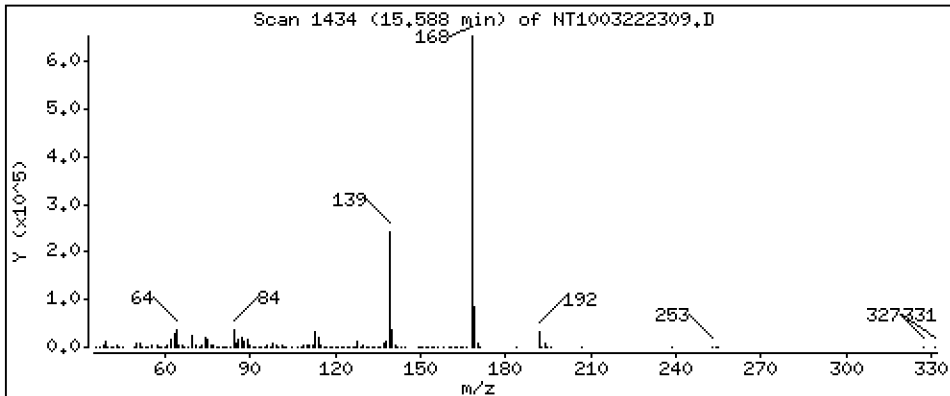
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 6,347 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

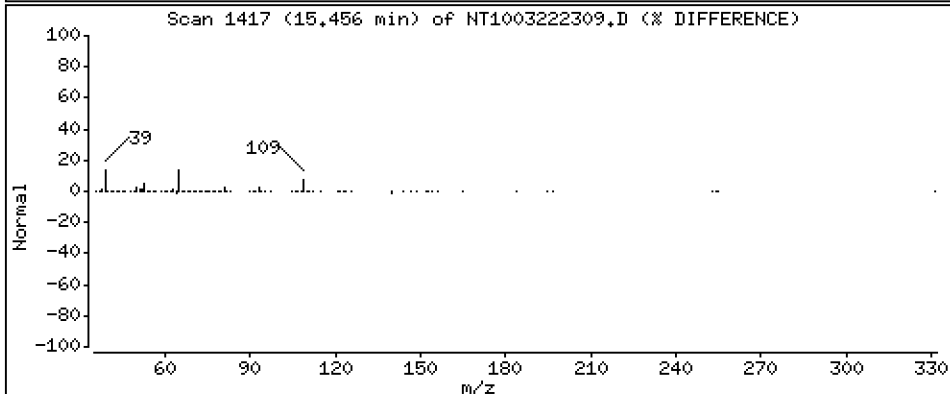
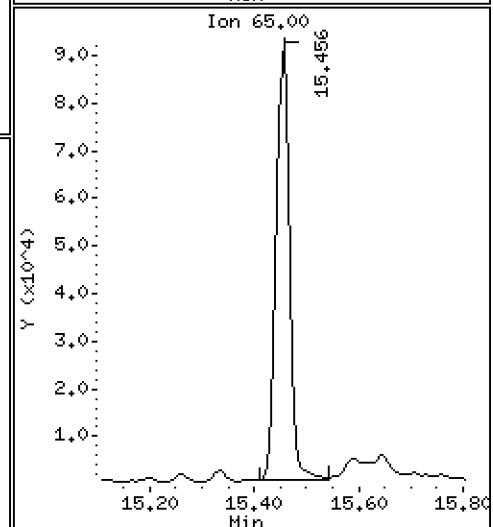
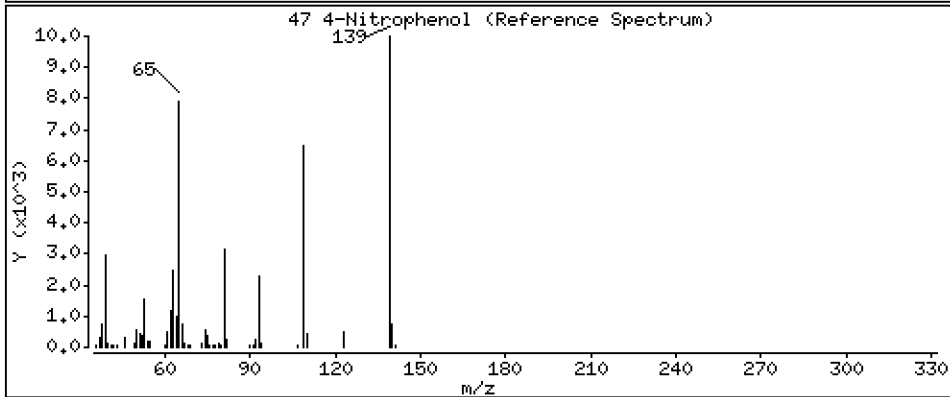
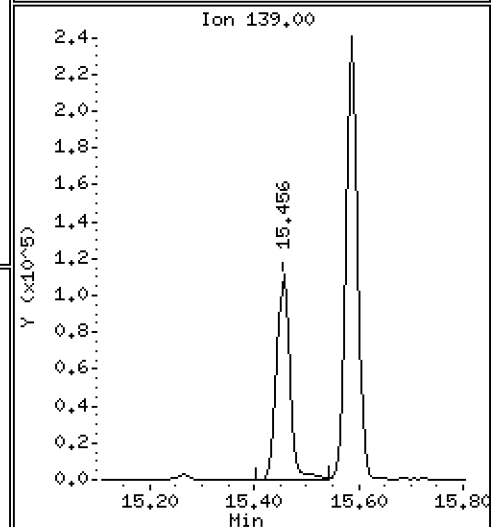
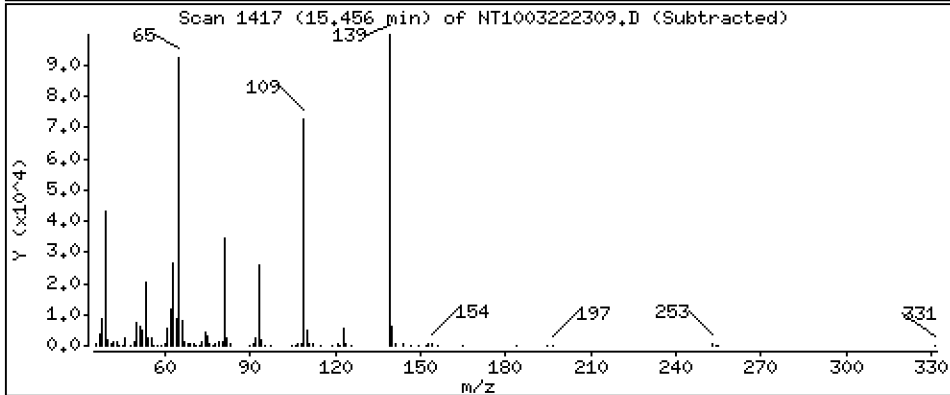
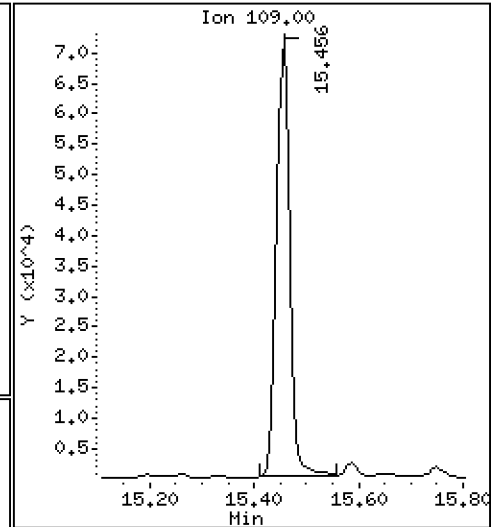
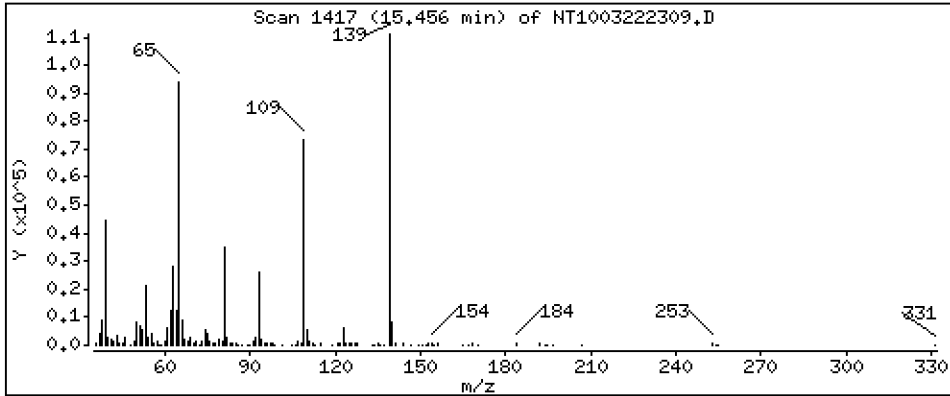
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 7,035 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

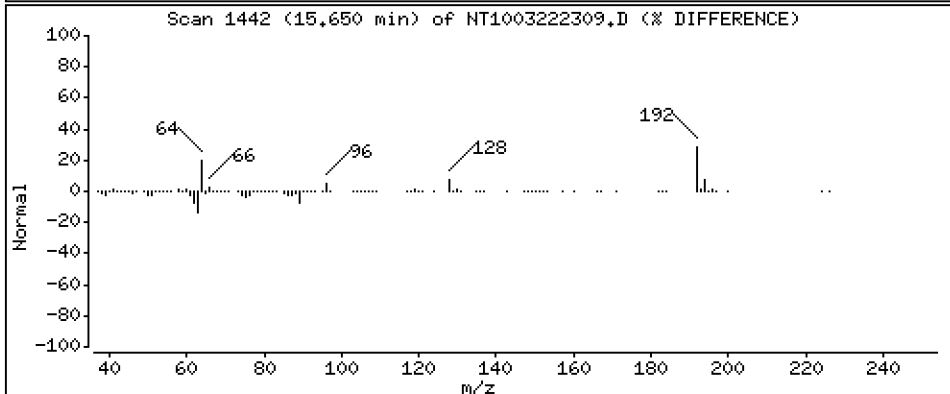
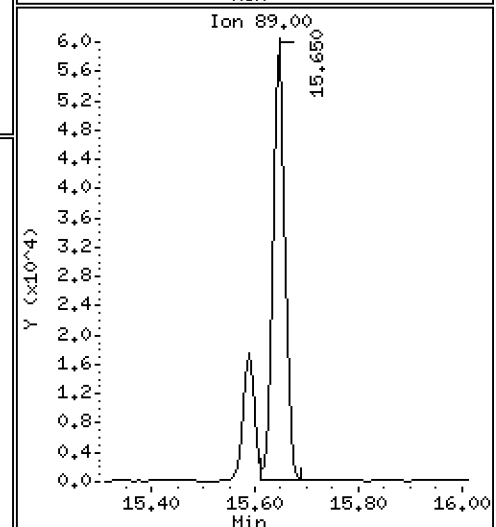
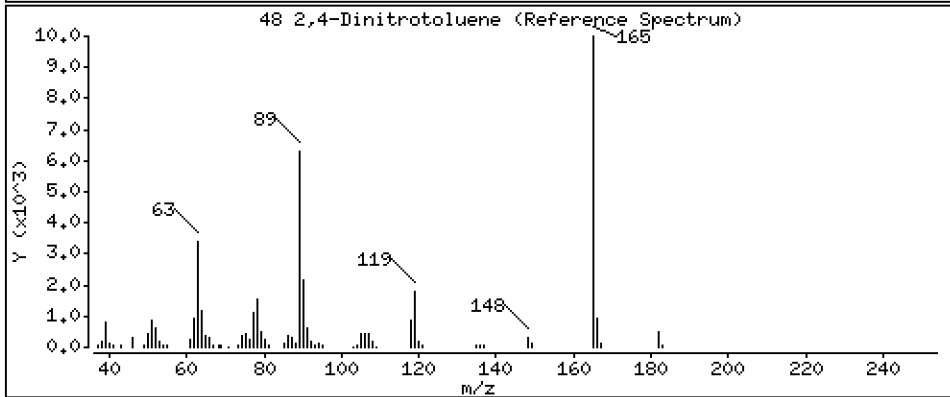
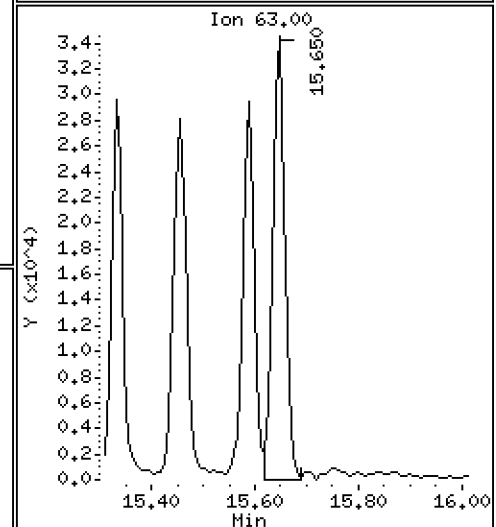
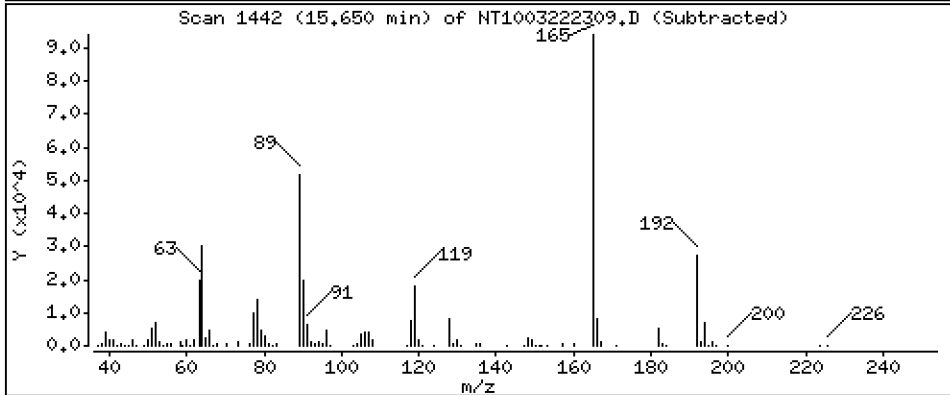
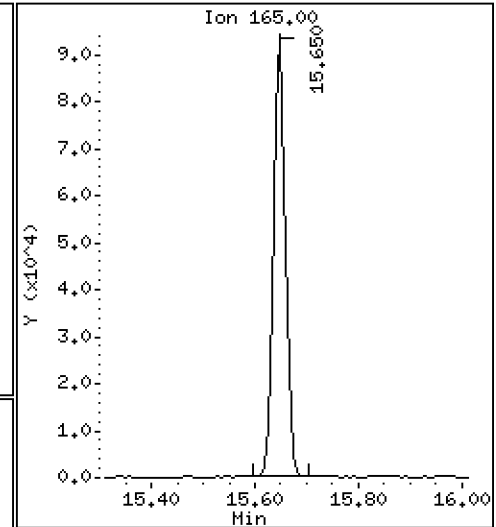
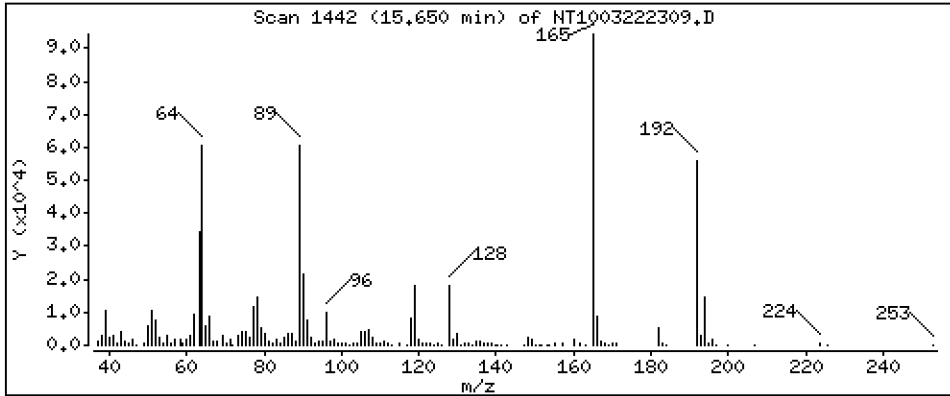
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 3,954 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

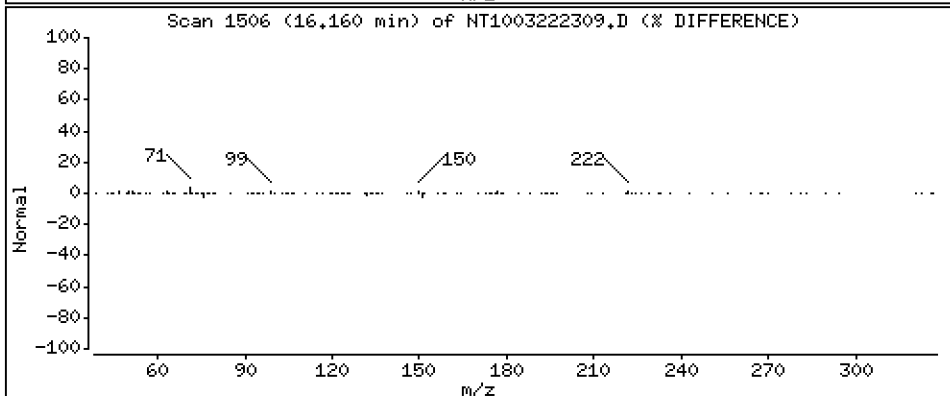
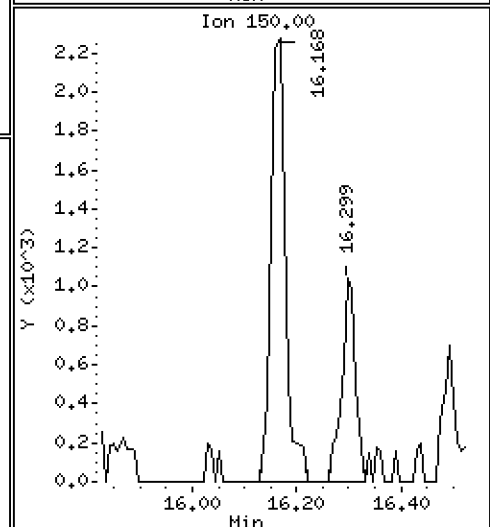
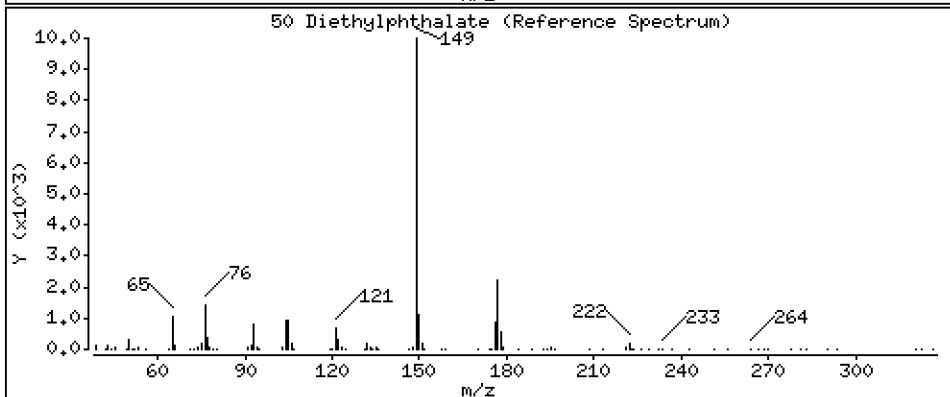
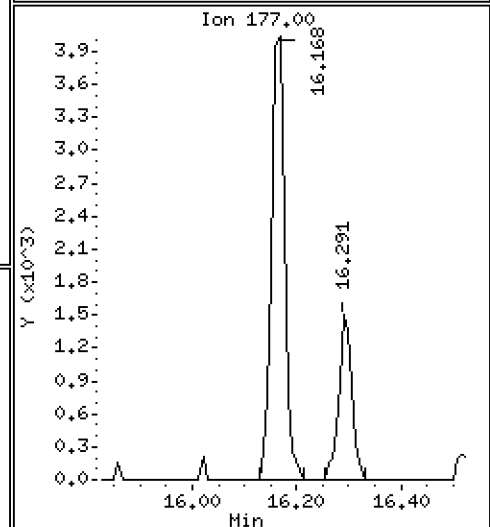
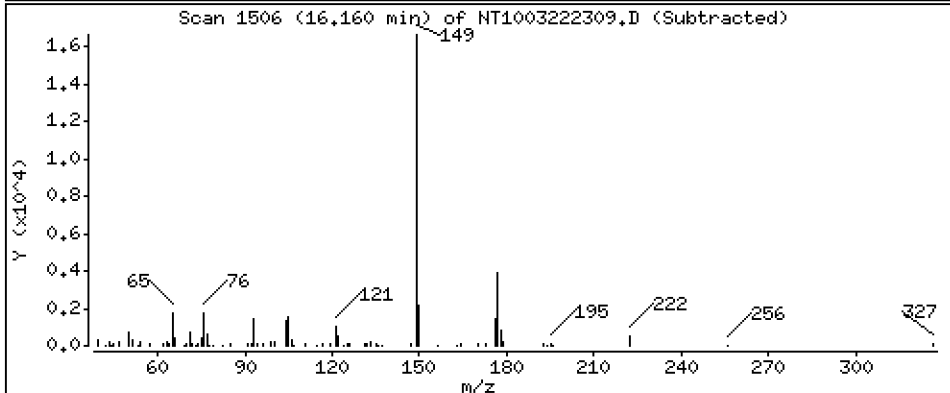
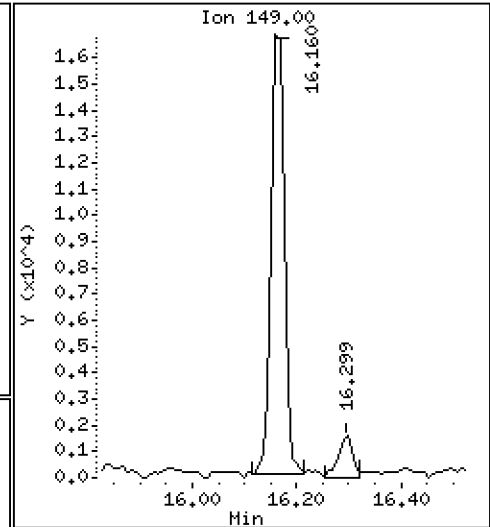
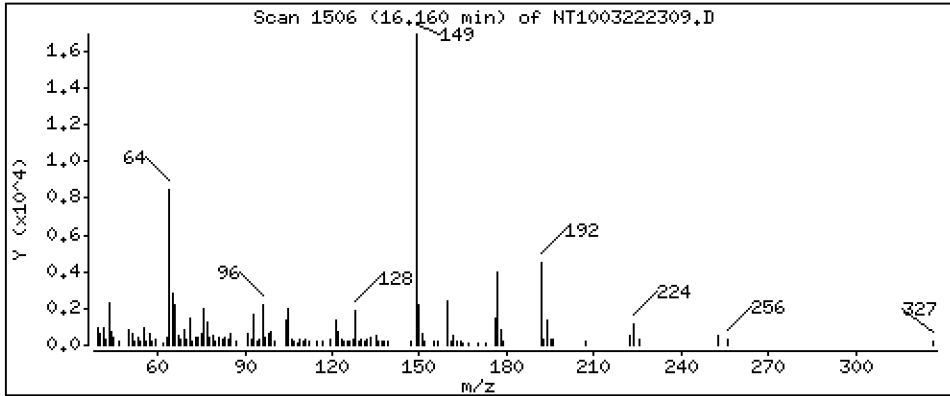
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2959 ug/mL





Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

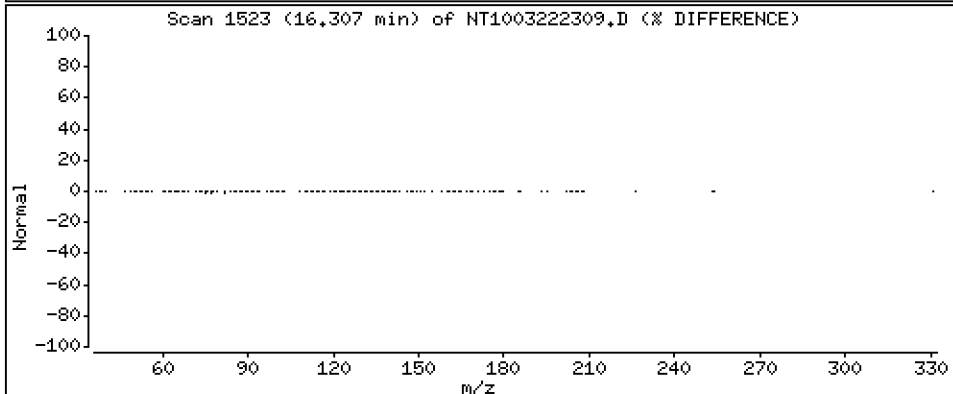
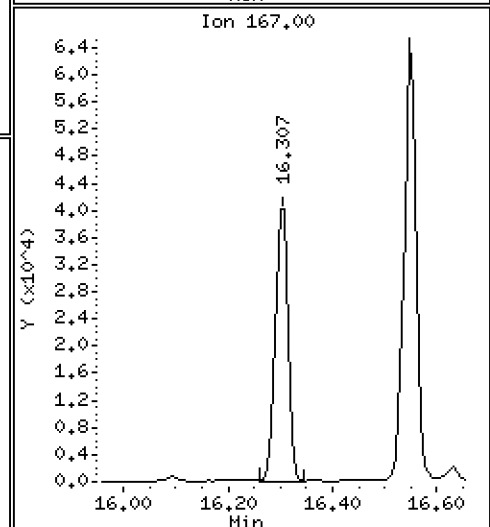
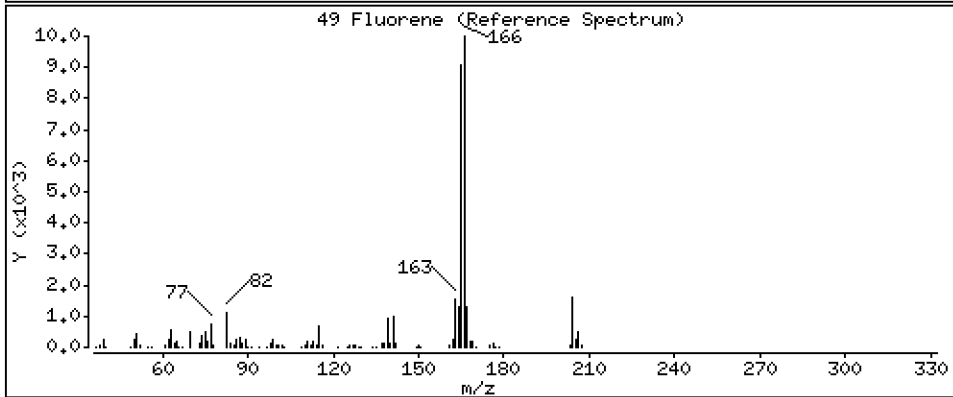
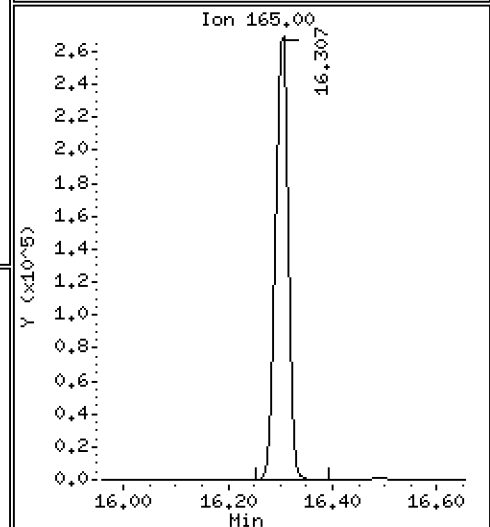
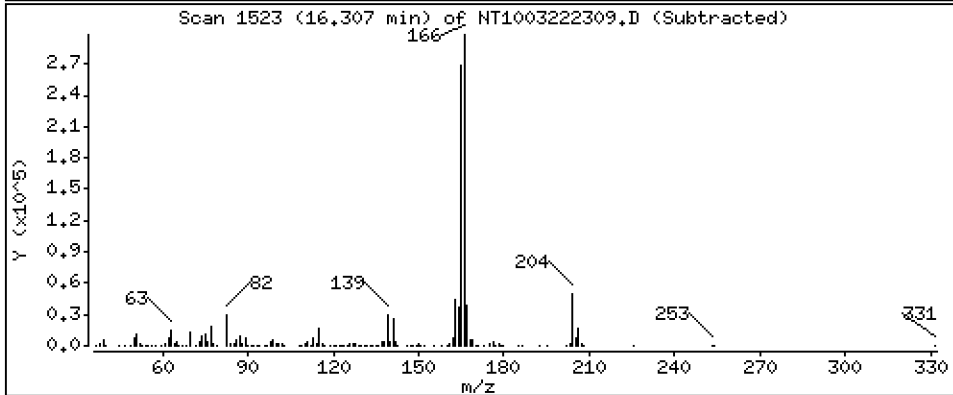
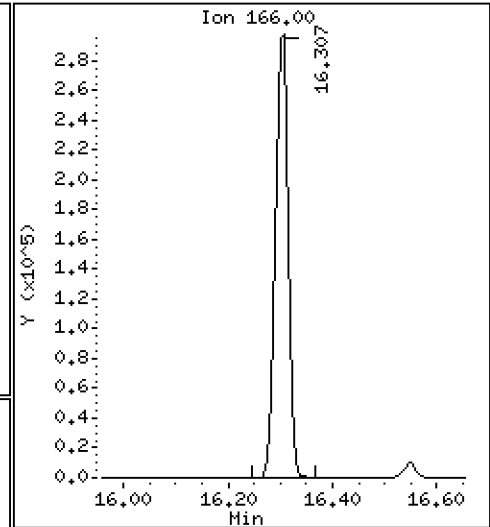
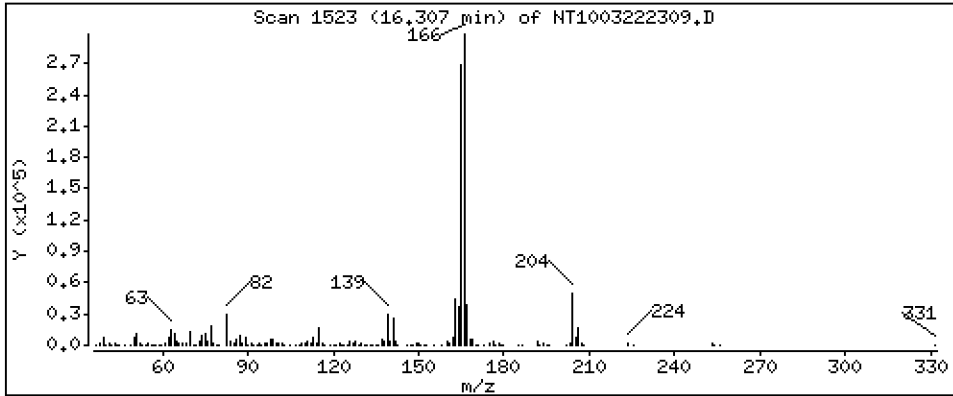
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 3,870 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

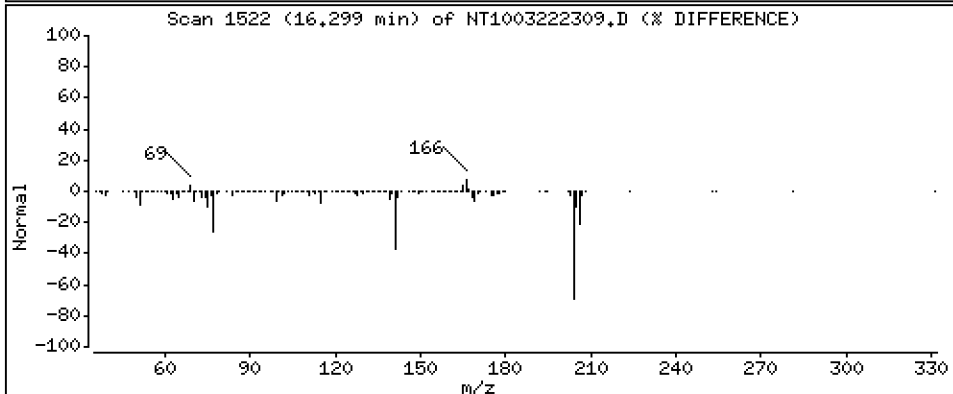
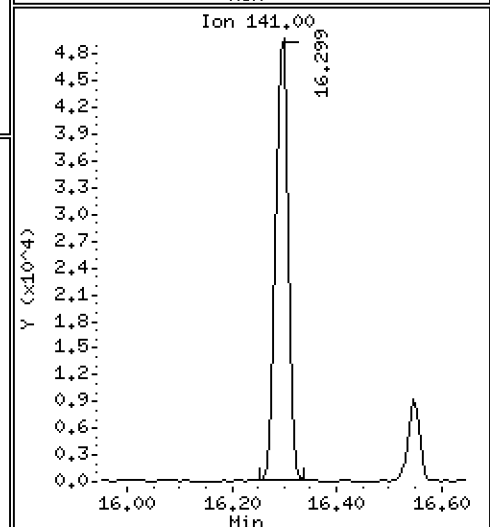
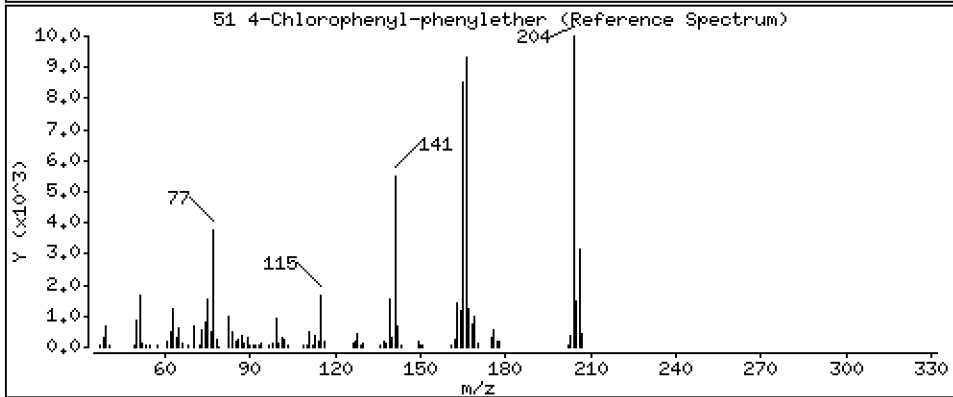
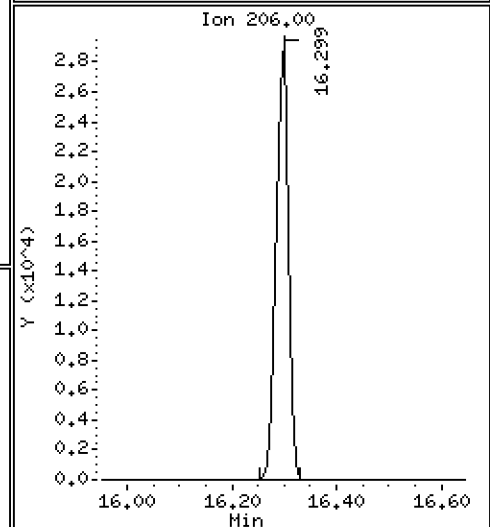
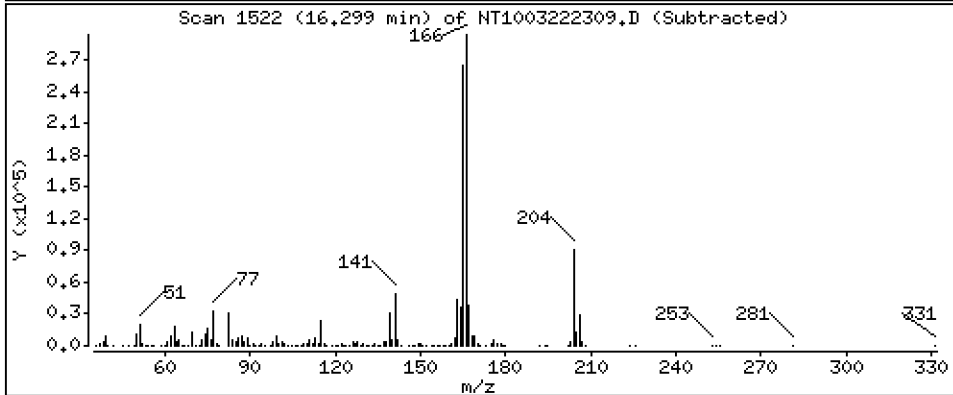
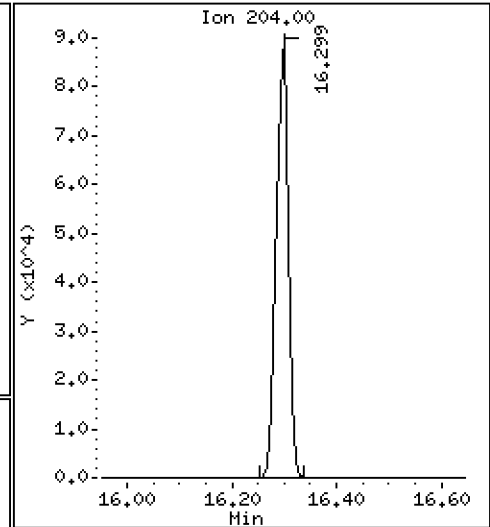
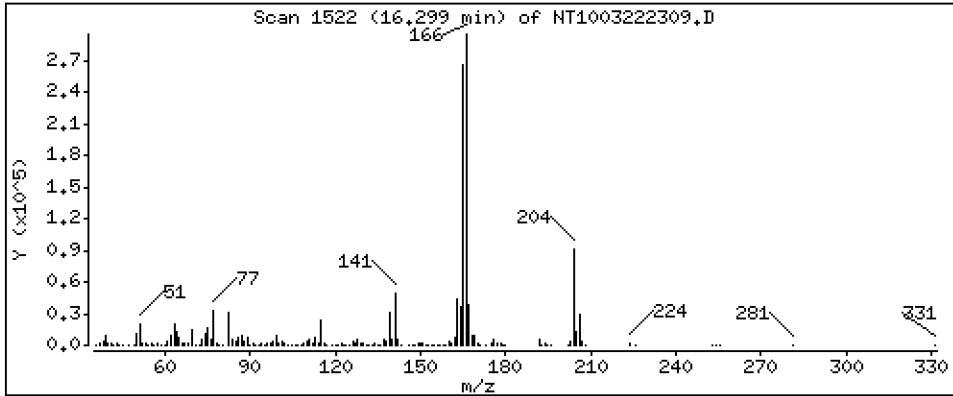
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 2,330 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

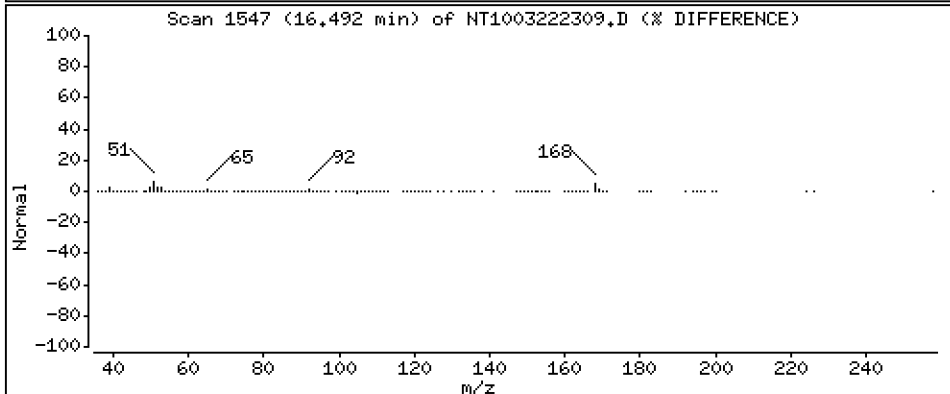
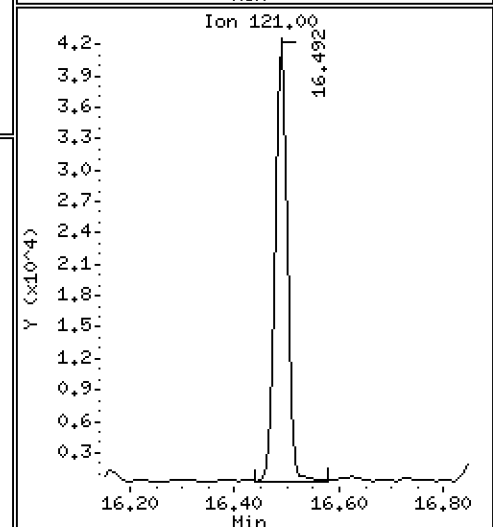
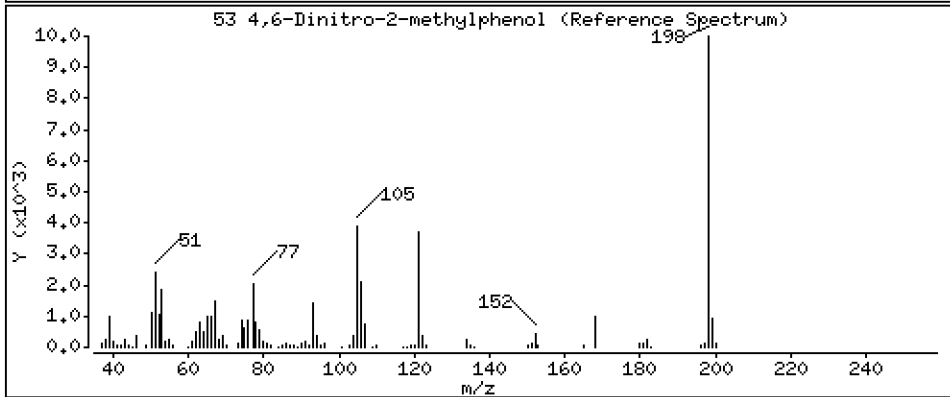
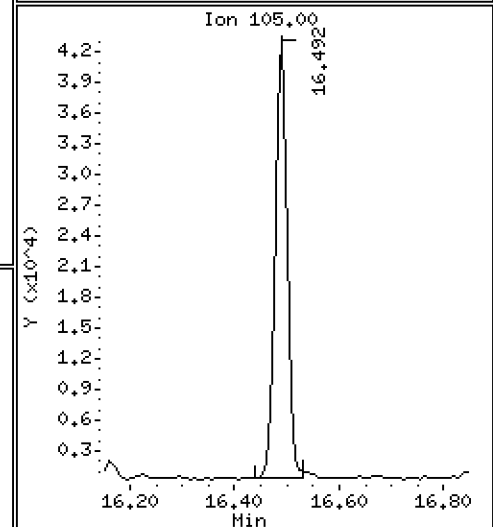
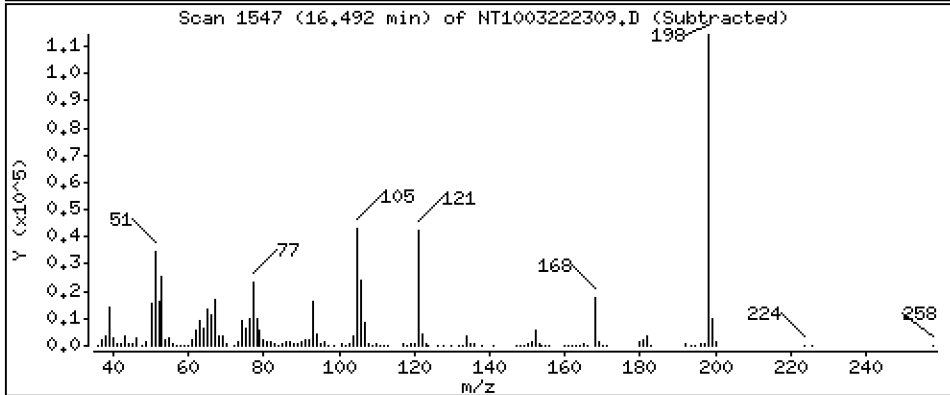
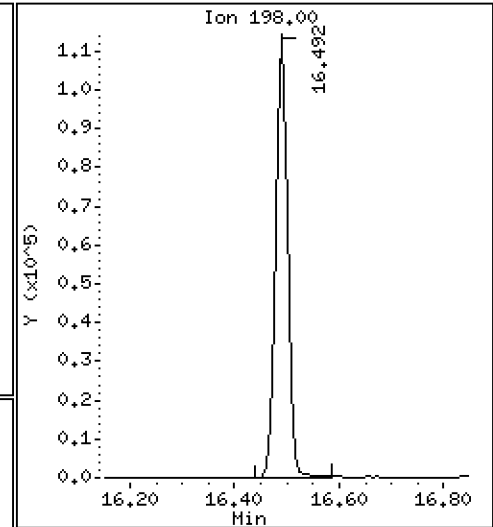
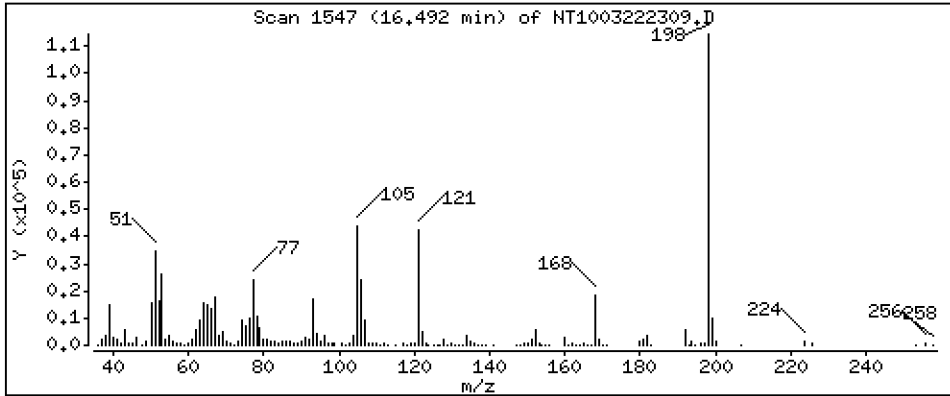
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 8,665 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

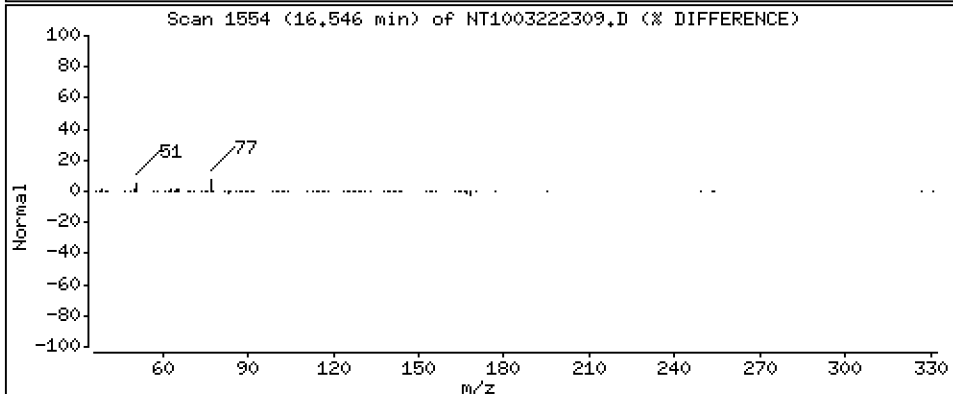
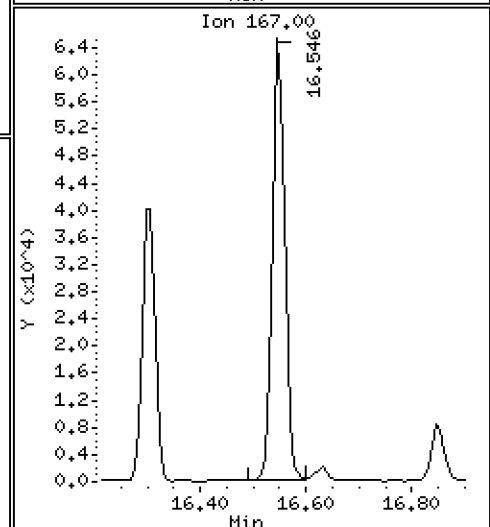
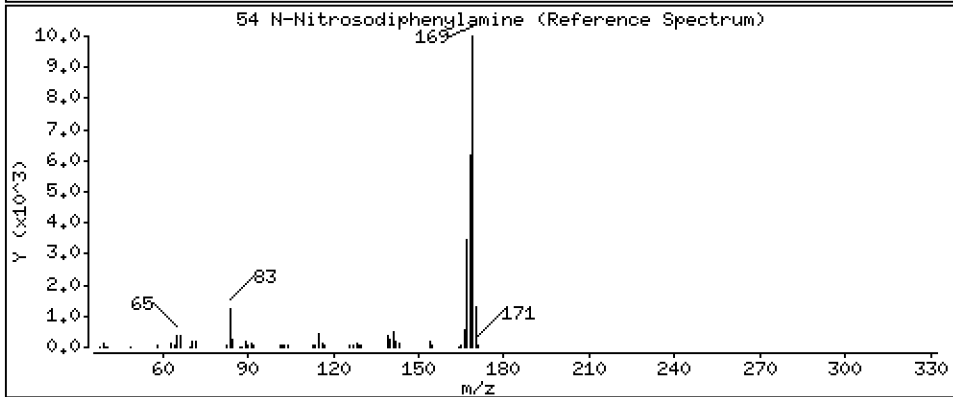
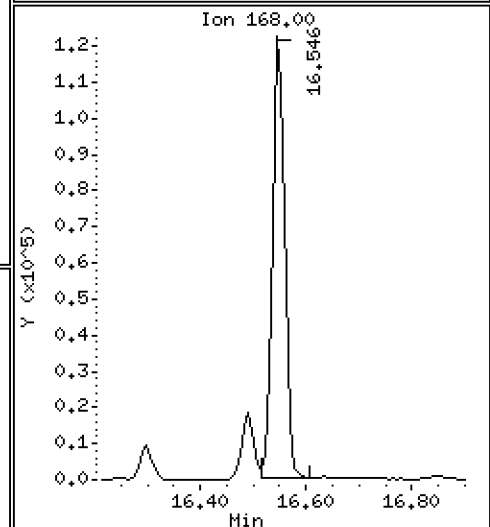
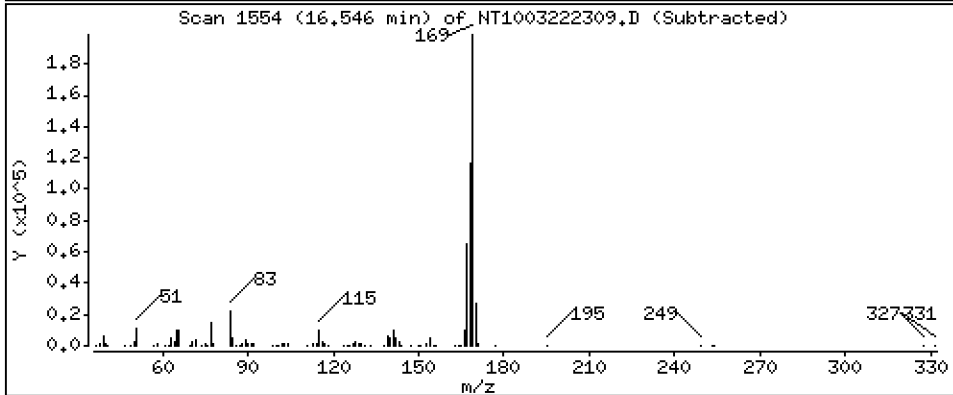
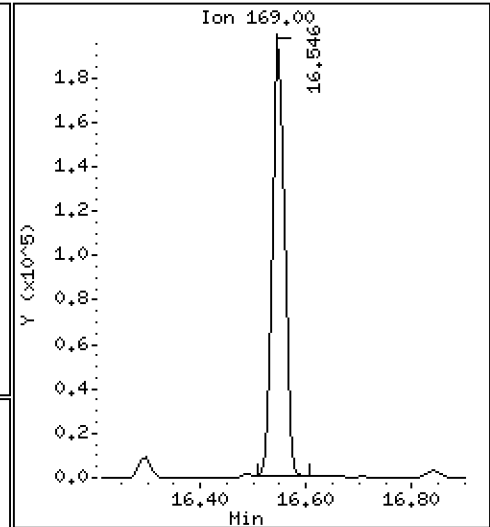
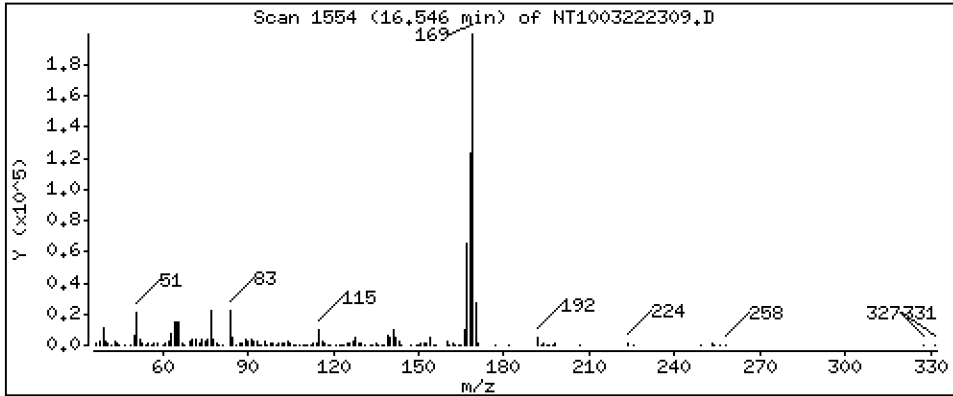
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 3,552 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

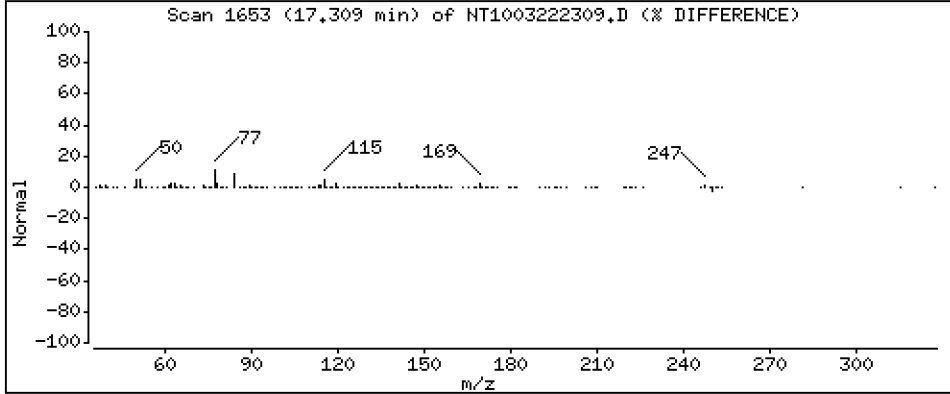
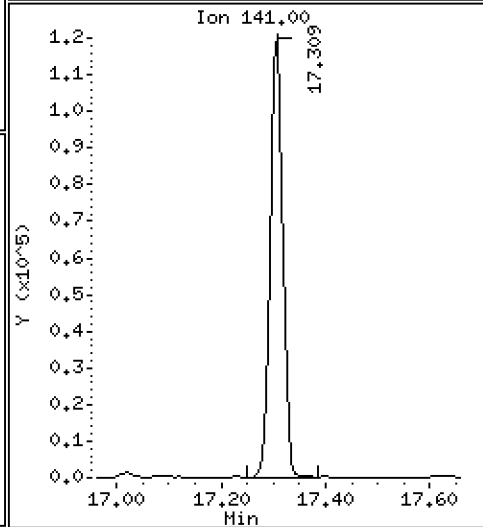
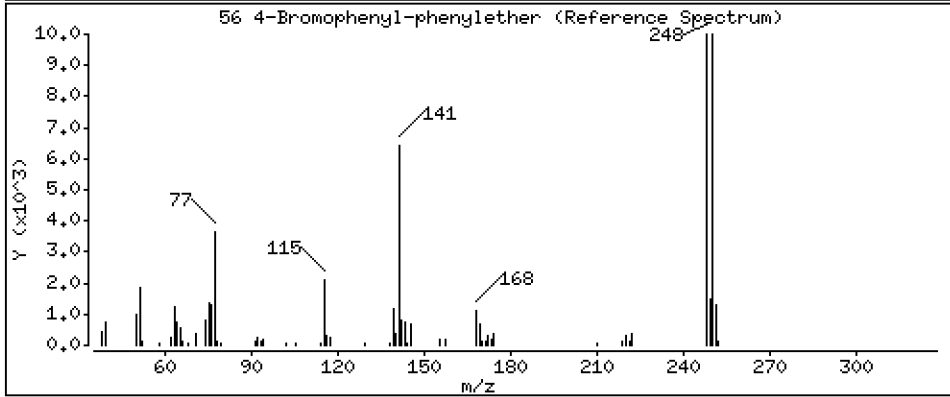
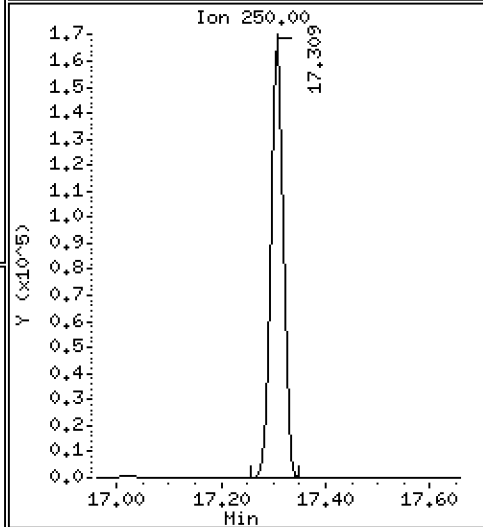
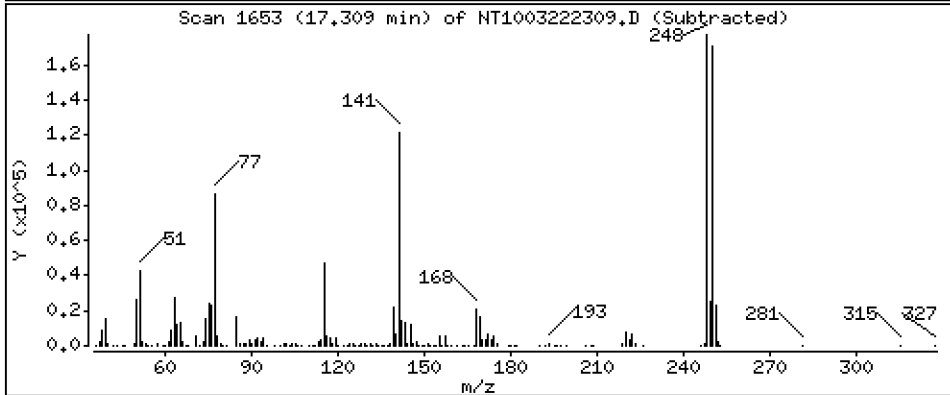
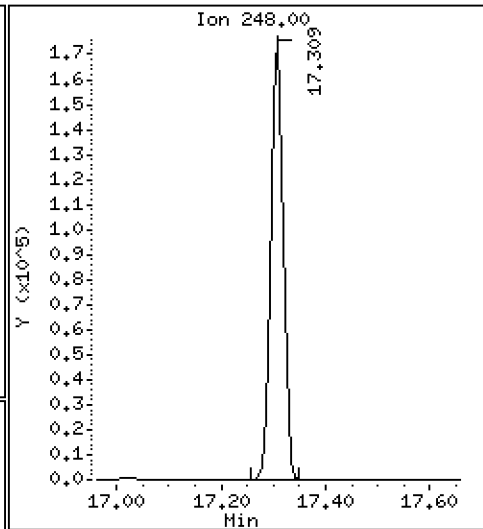
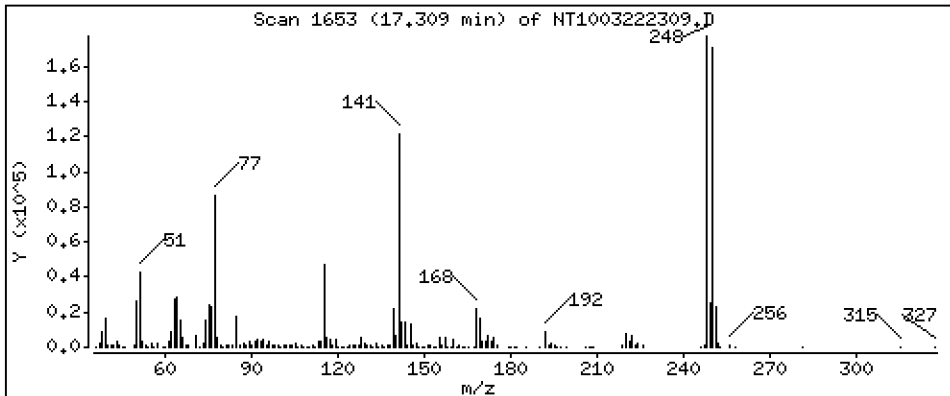
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 7,975 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

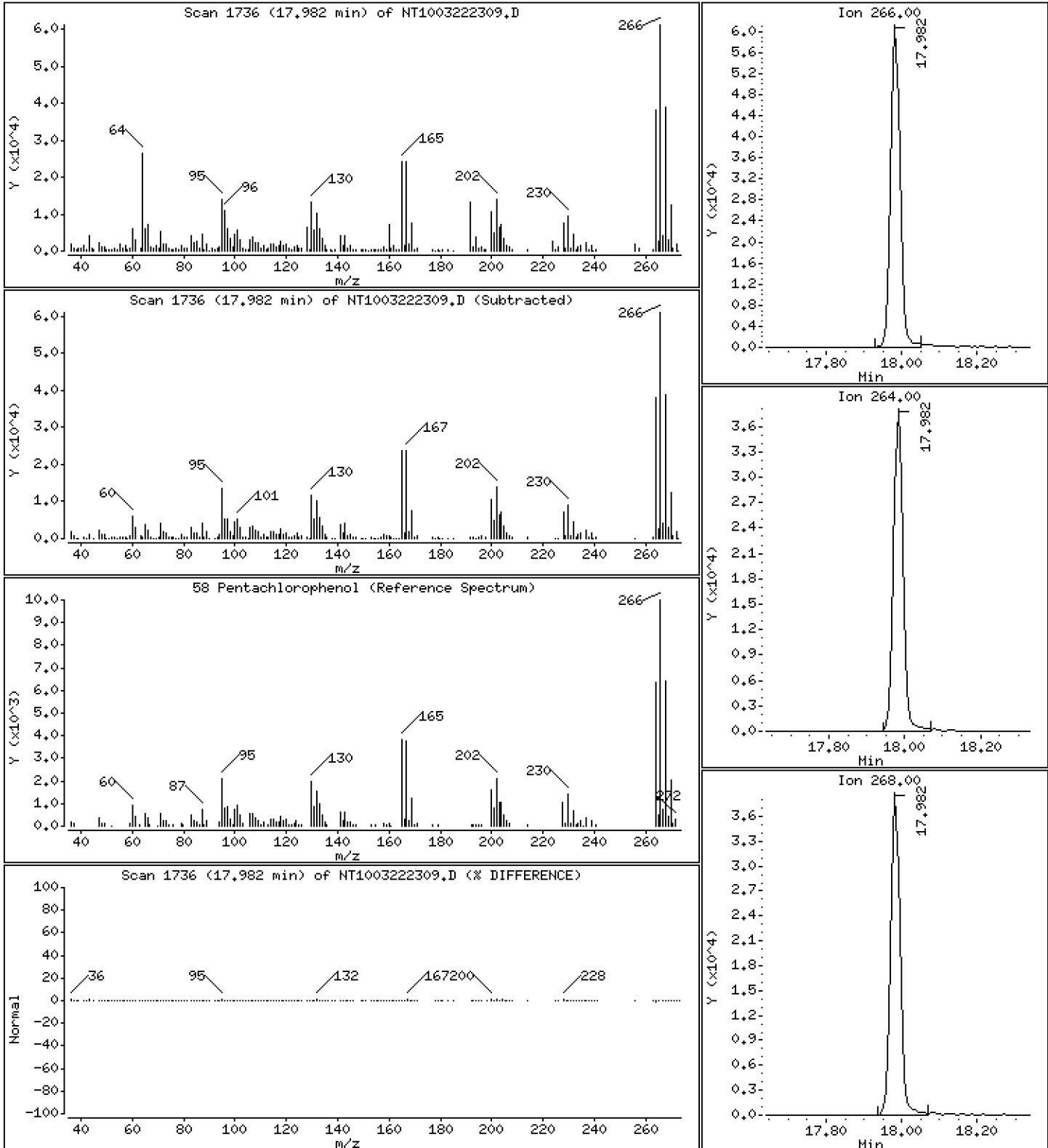
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 4,458 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

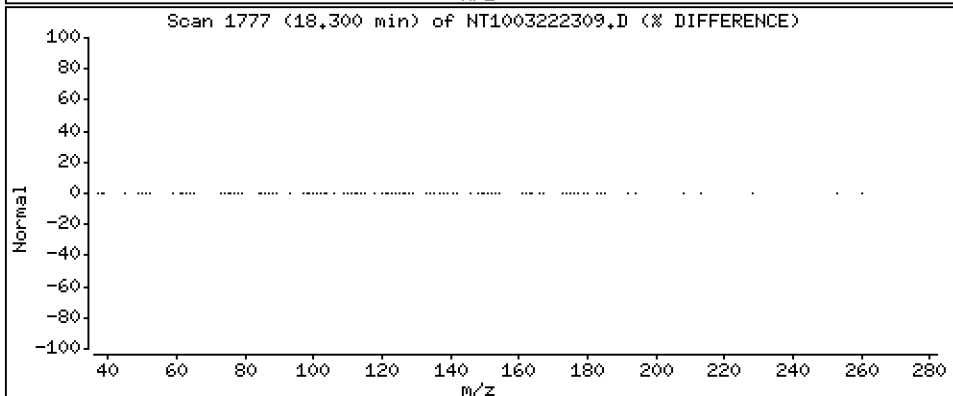
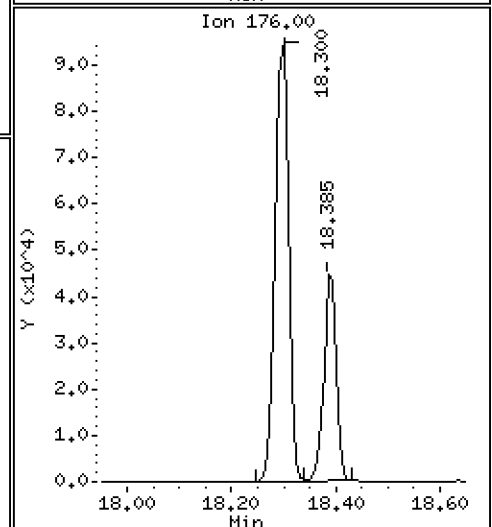
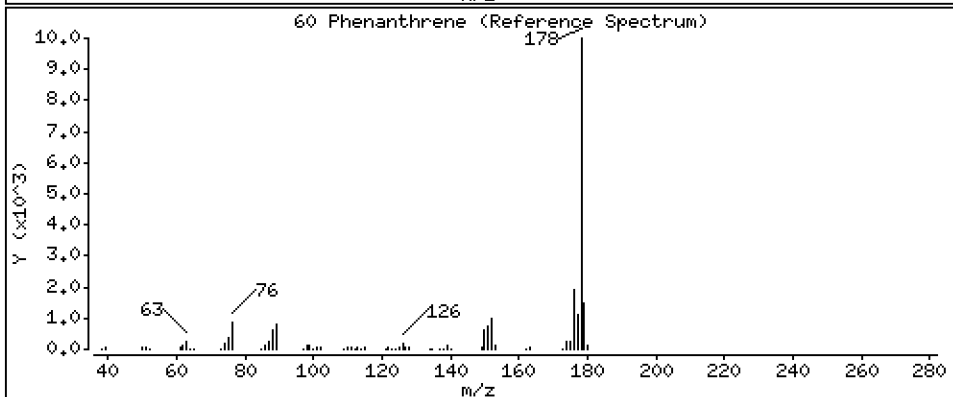
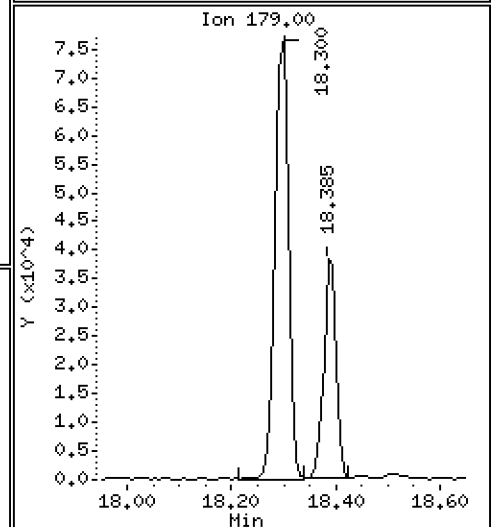
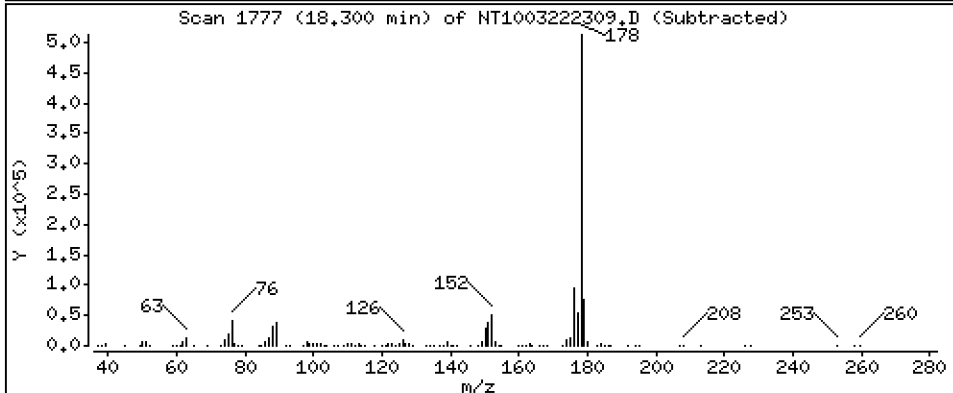
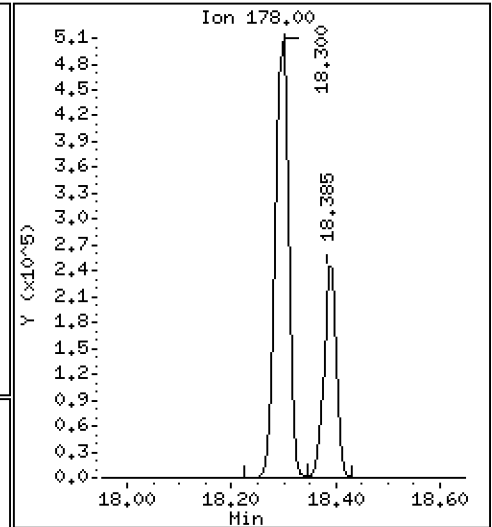
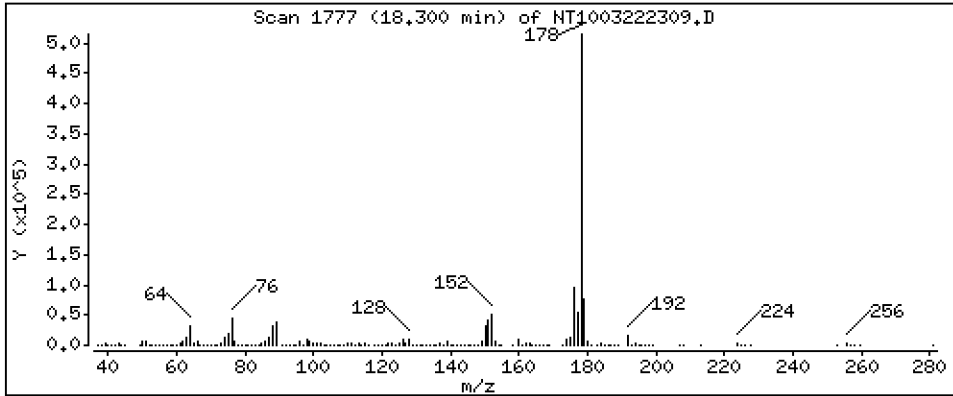
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,946 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

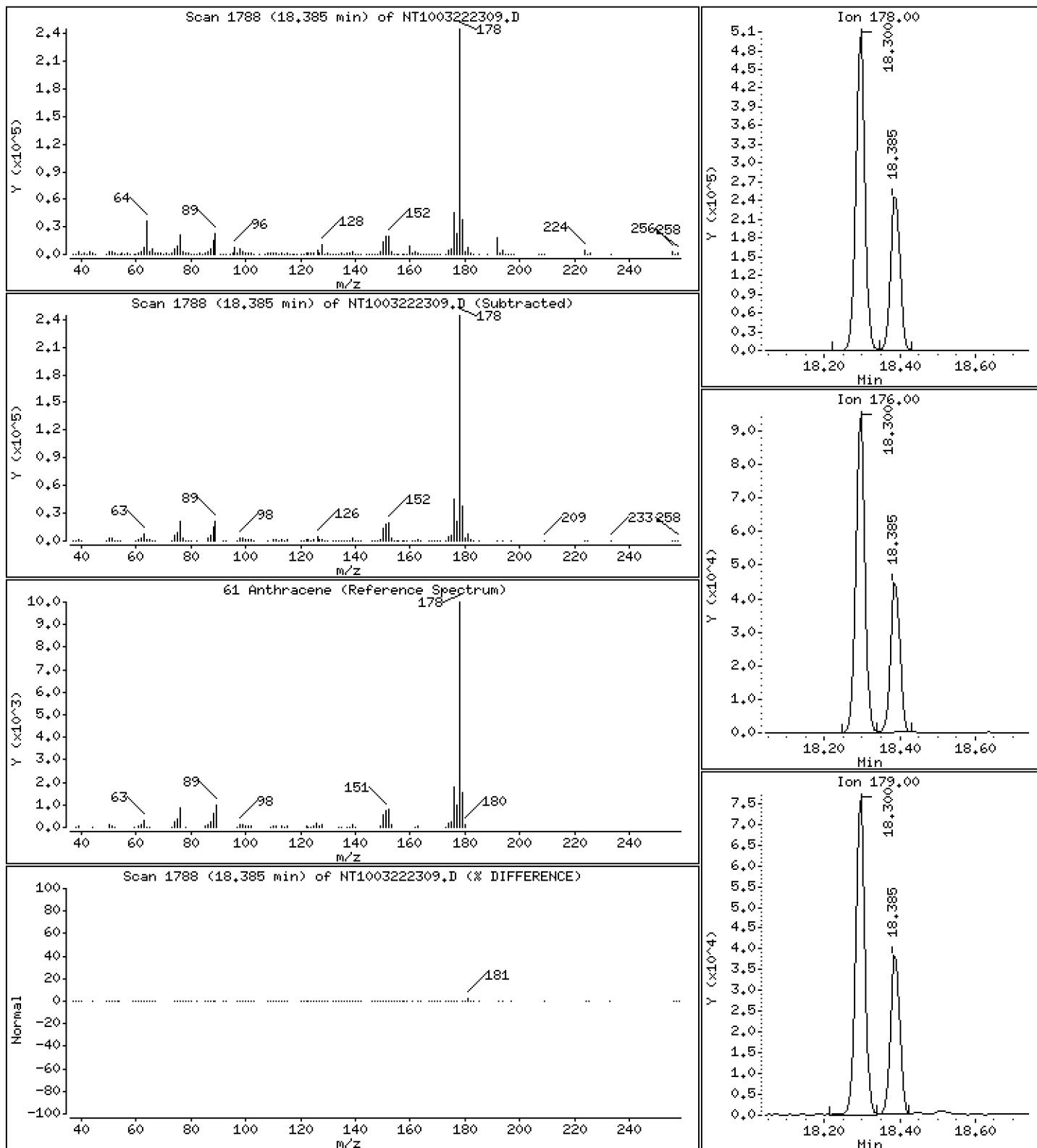
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 2,408 ug/mL





Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

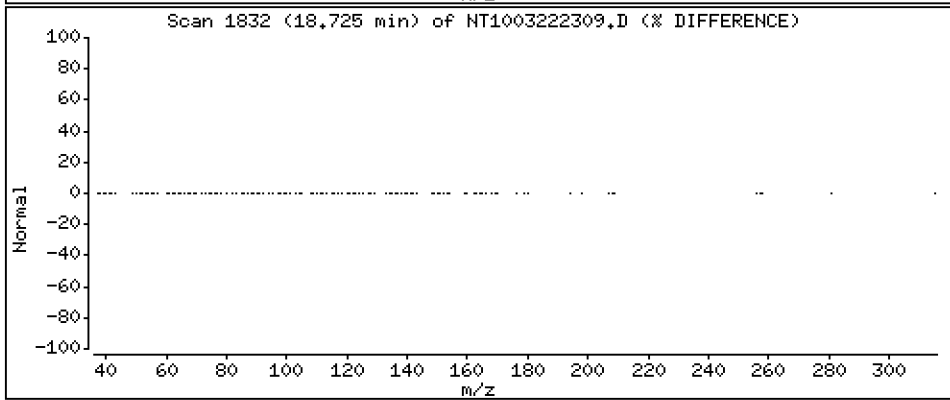
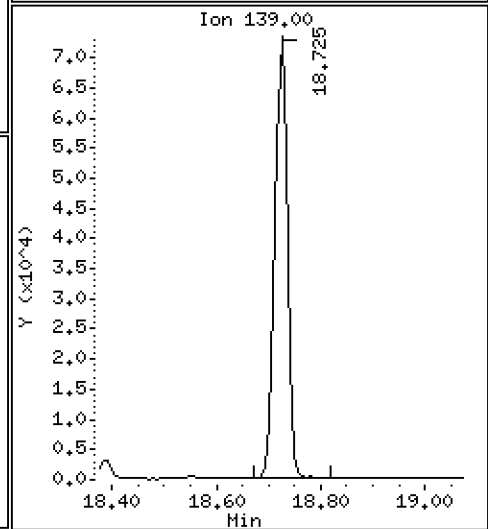
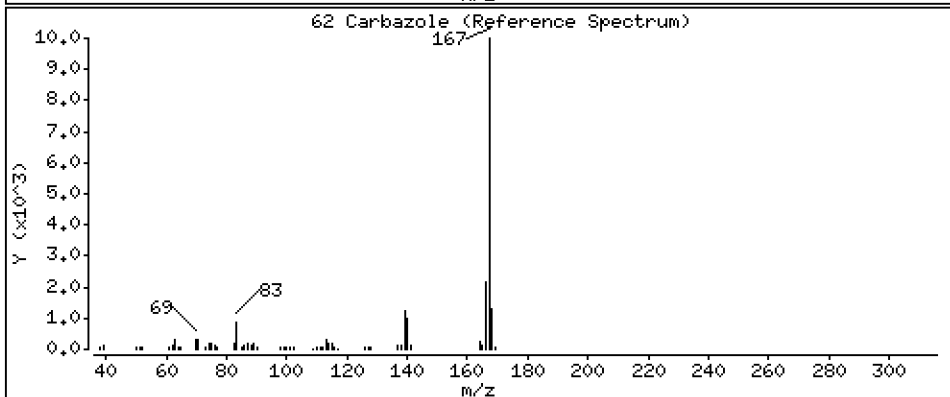
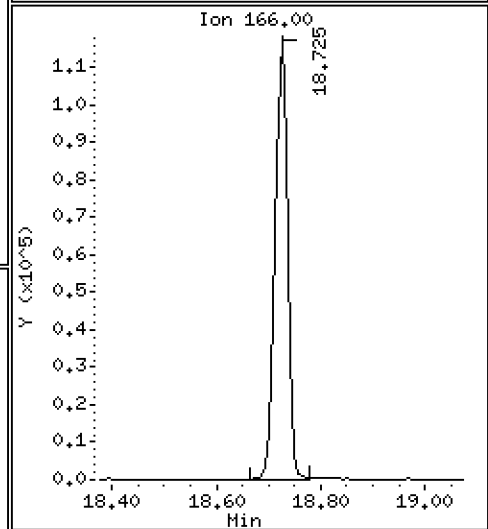
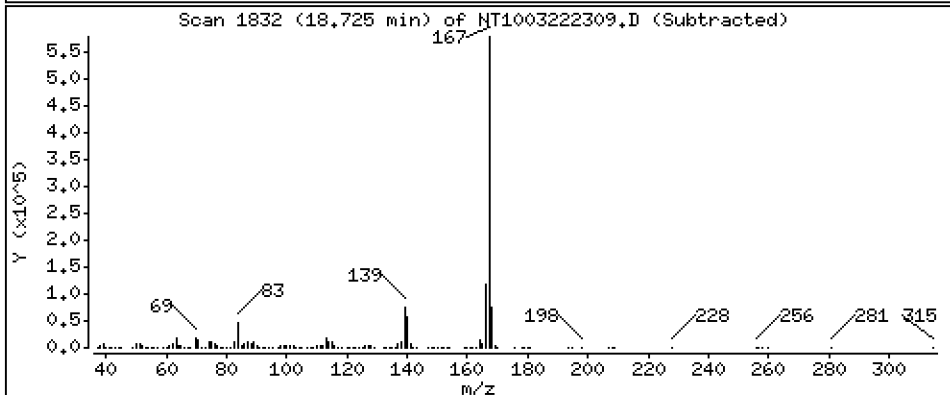
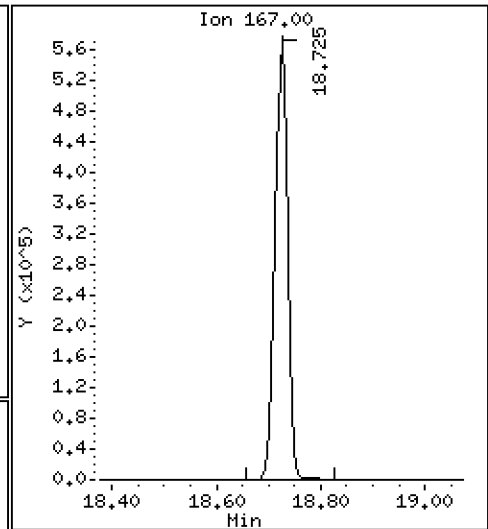
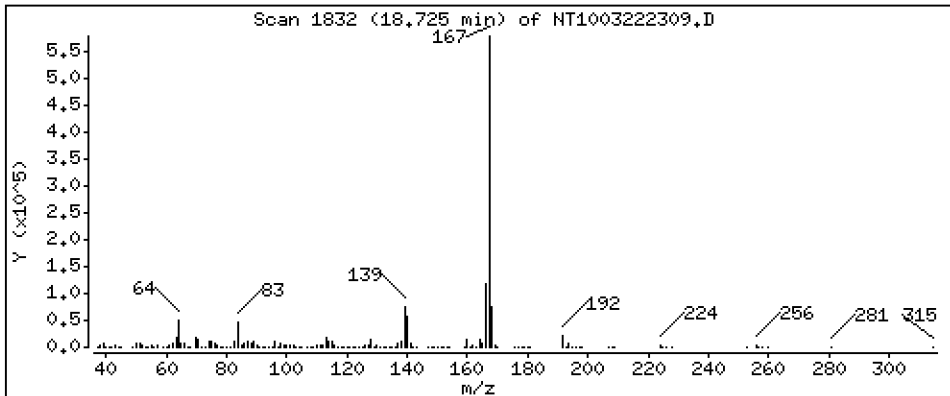
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 6,084 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

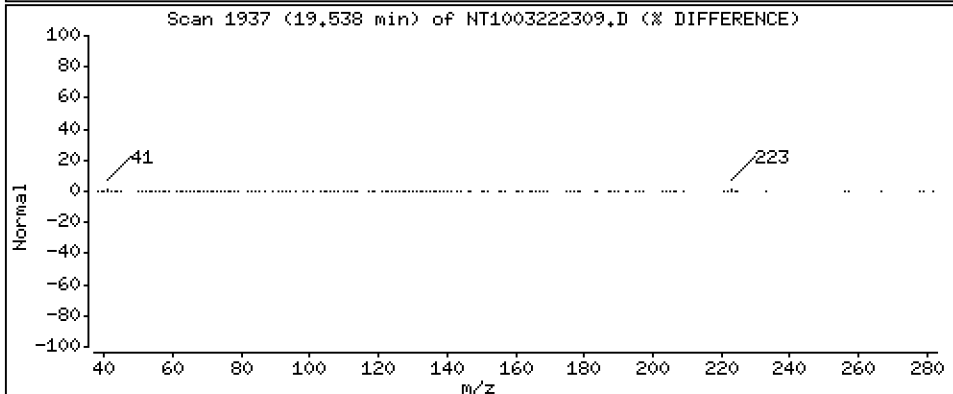
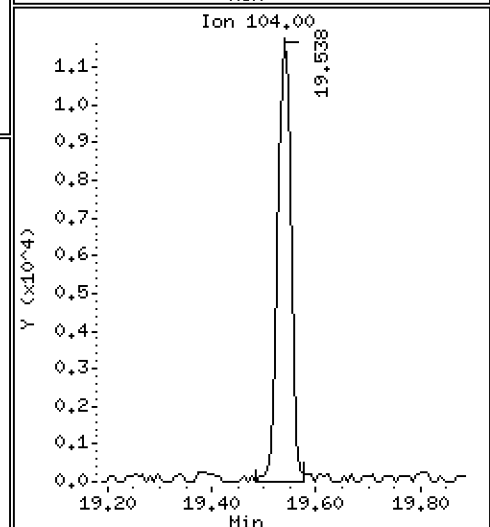
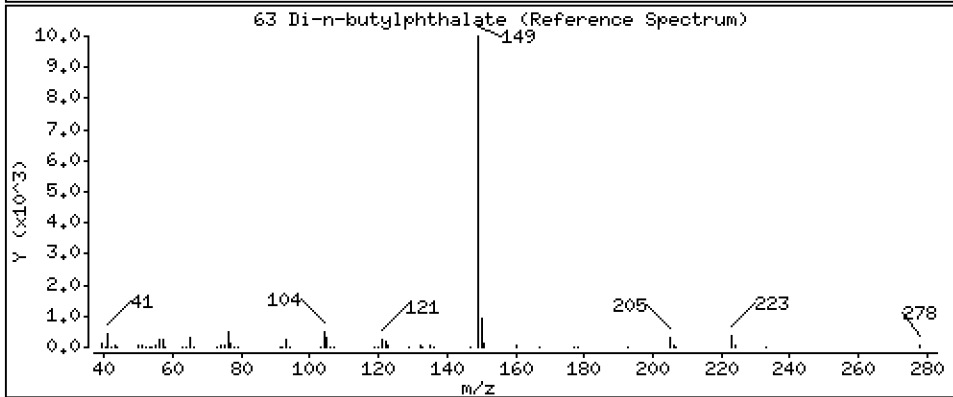
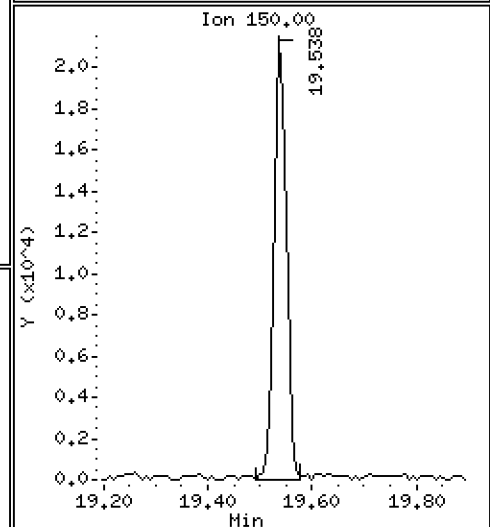
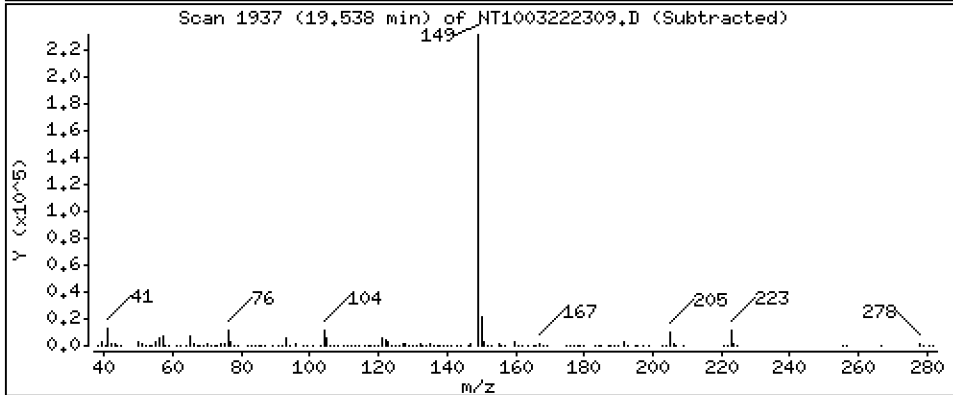
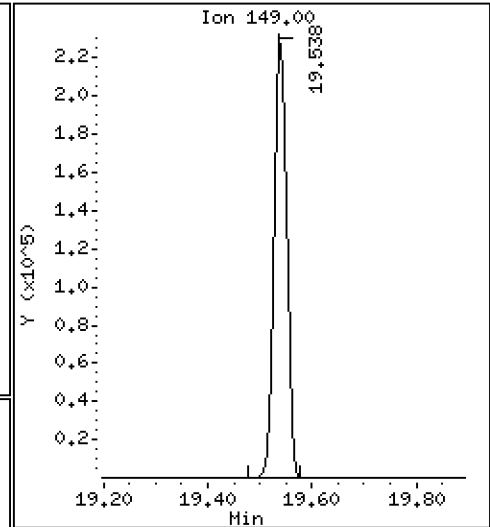
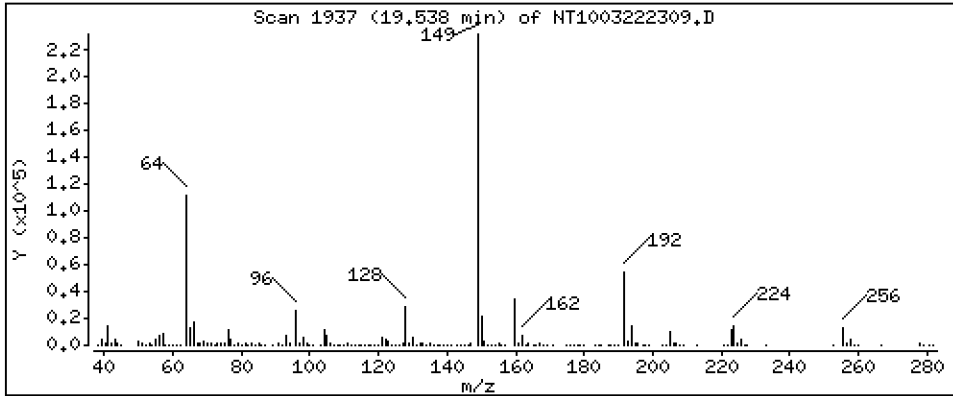
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 1,853 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

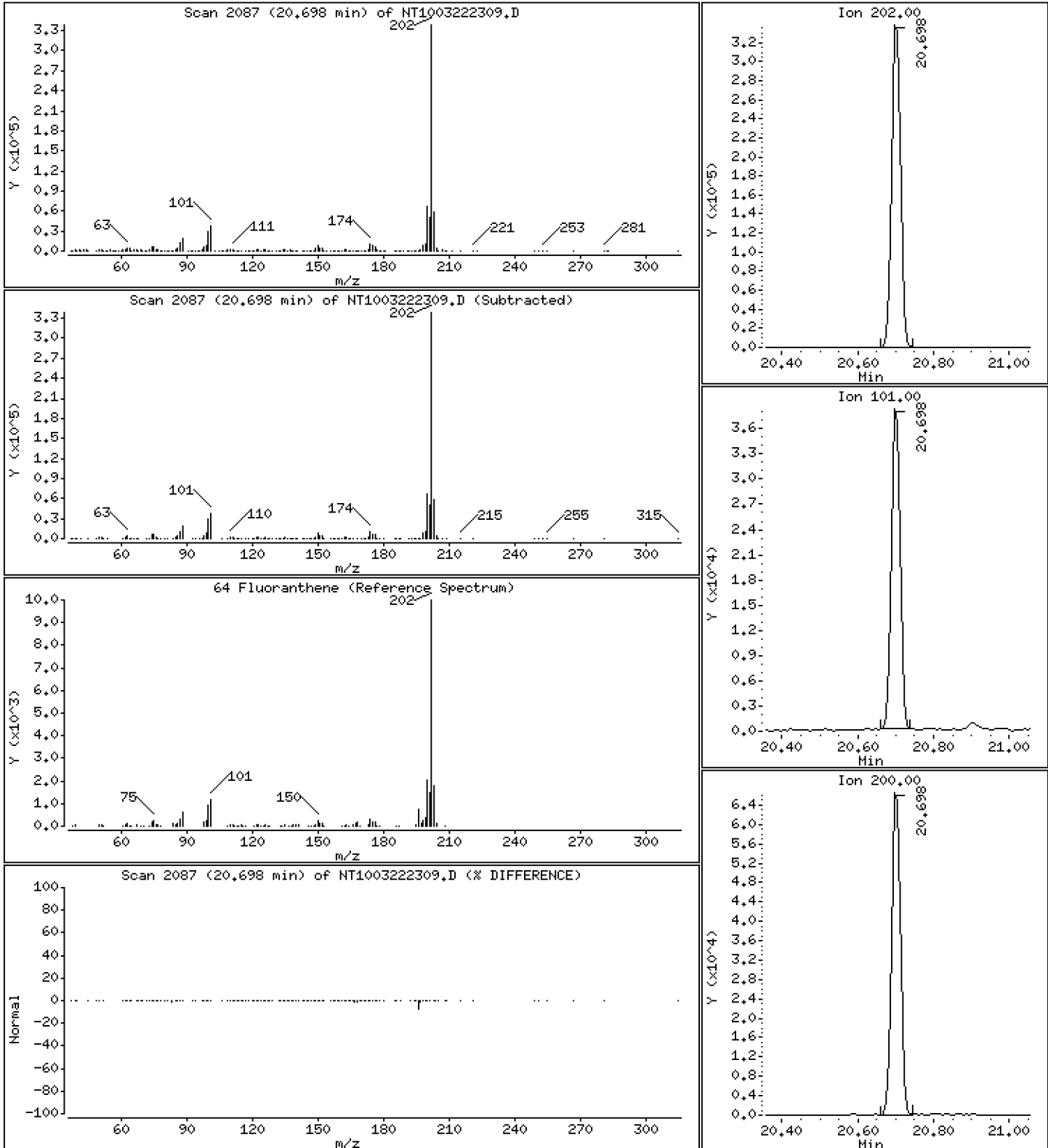
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 2,420 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

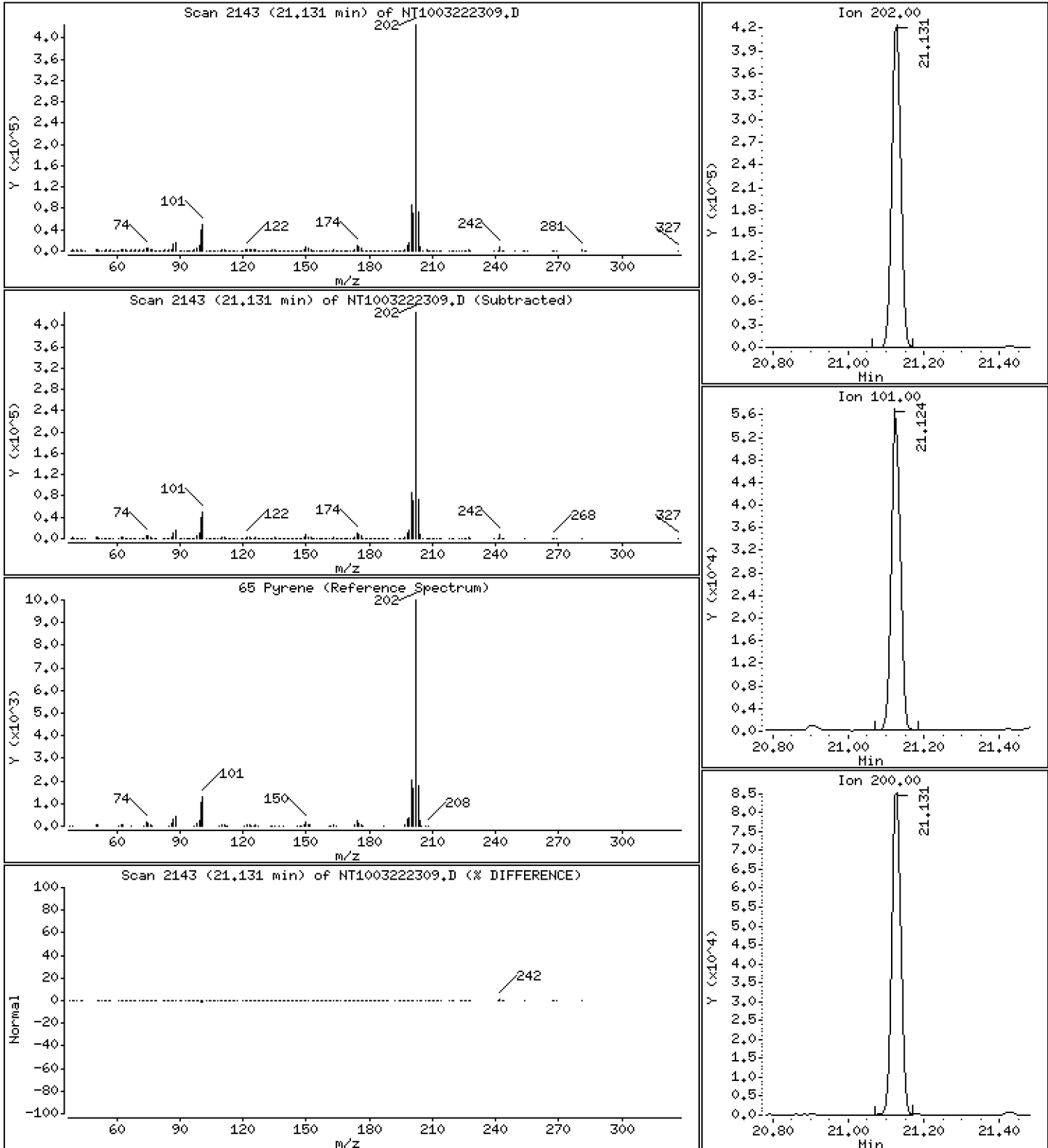
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 3,006 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

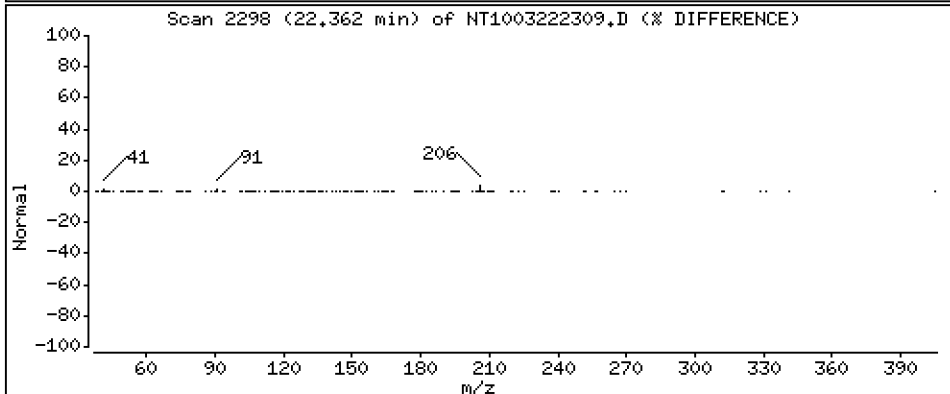
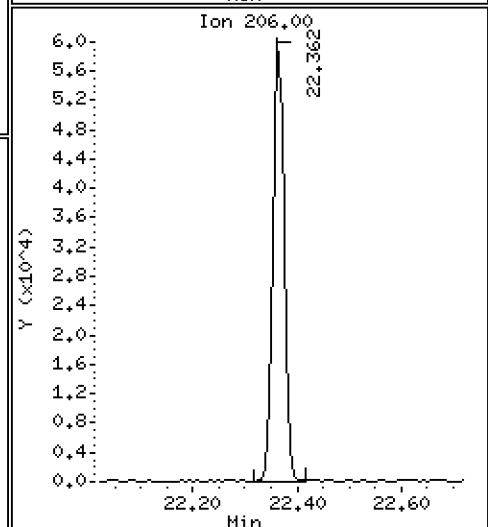
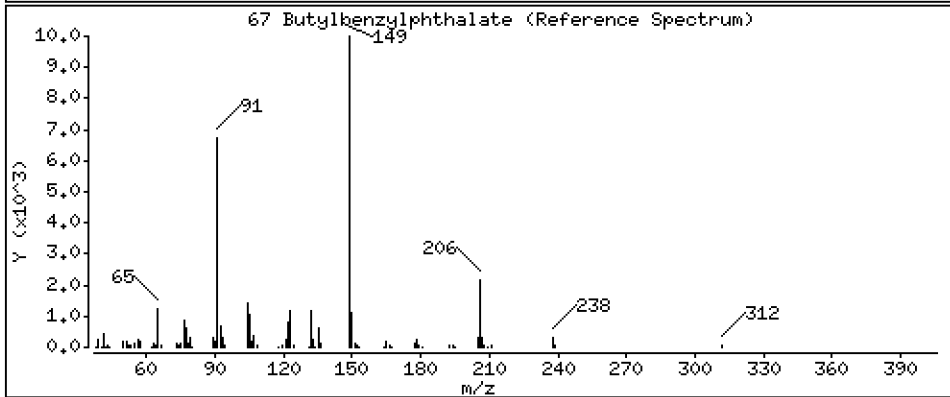
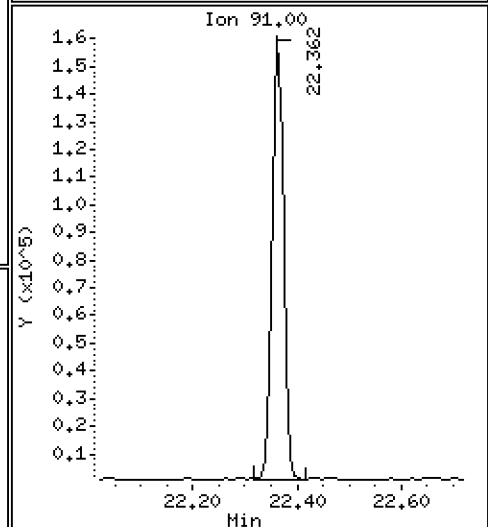
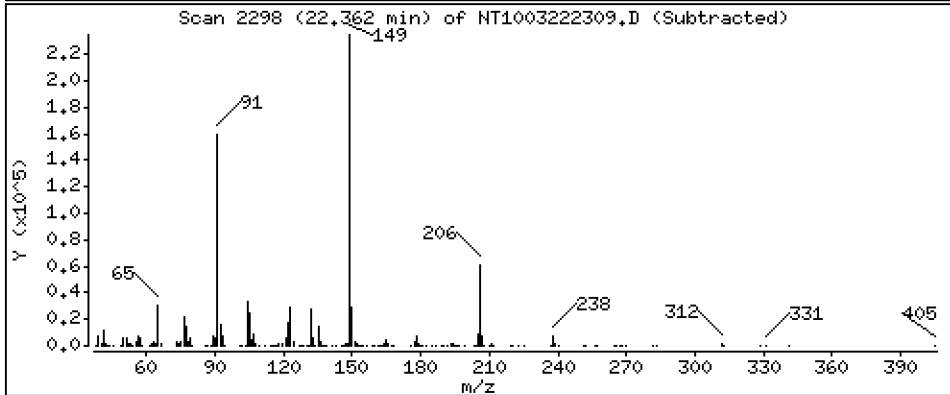
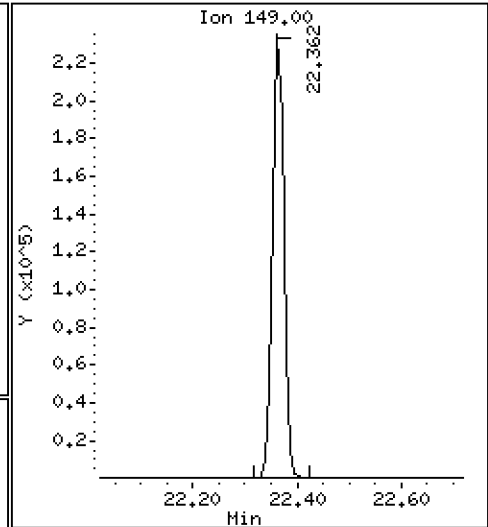
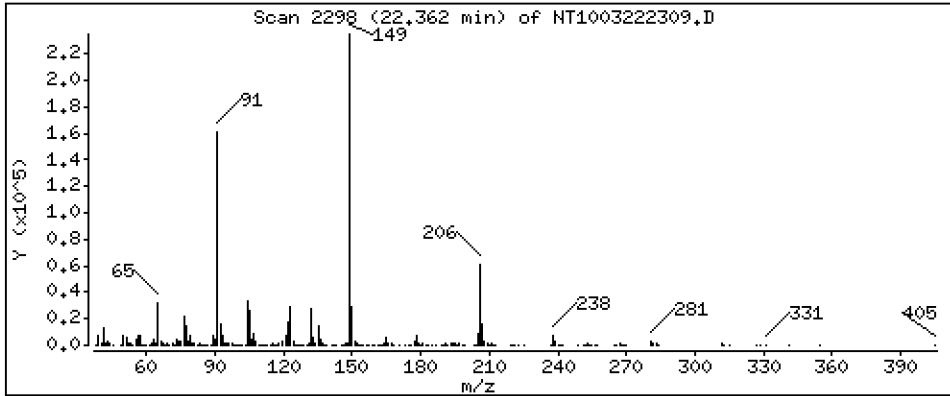
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,107 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

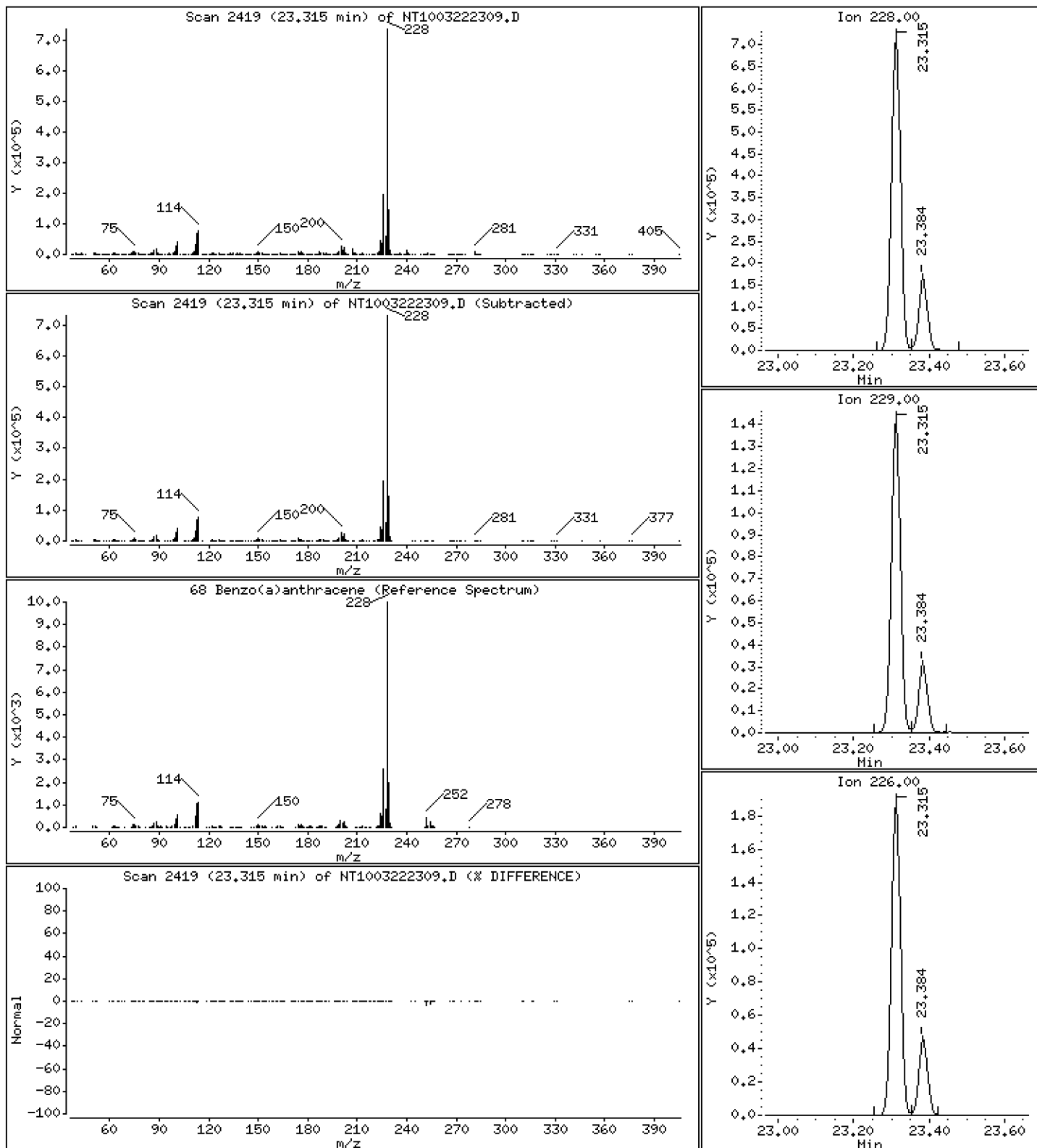
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 5,950 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

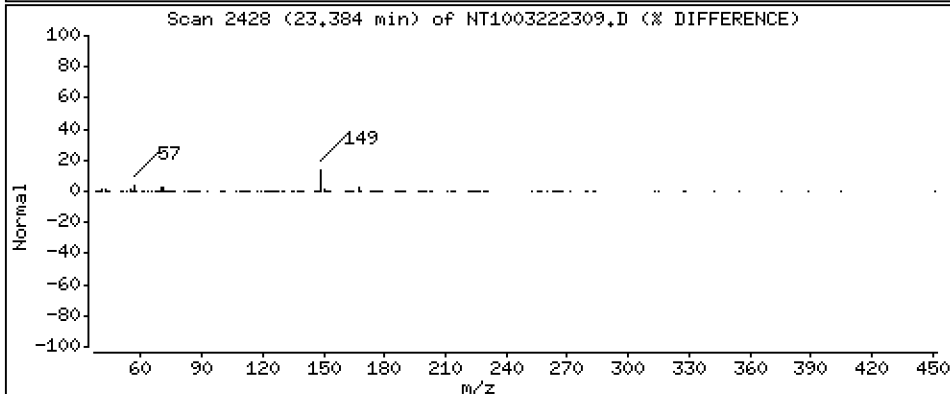
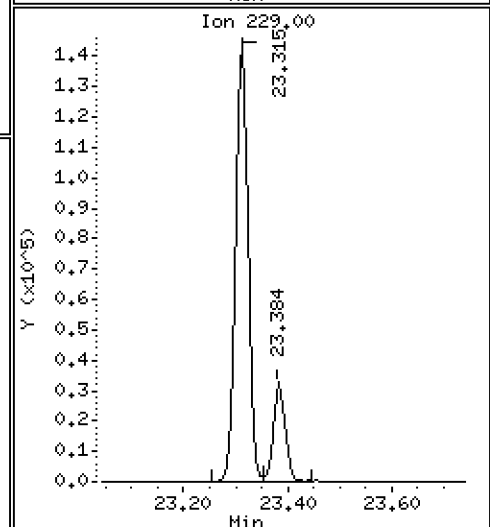
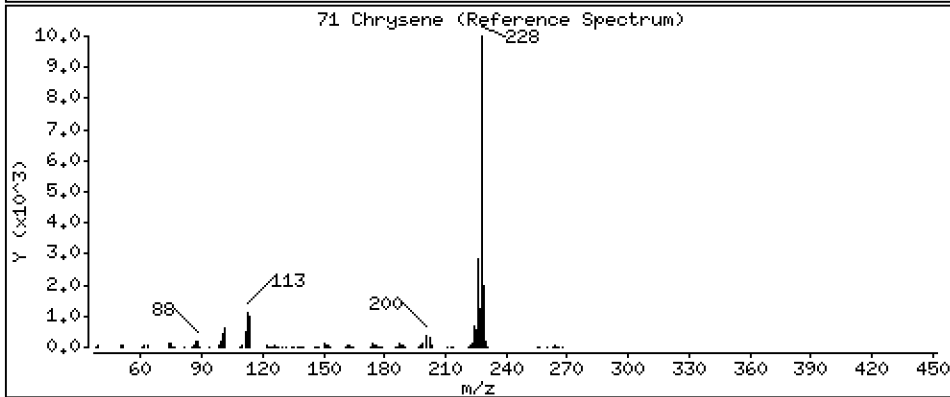
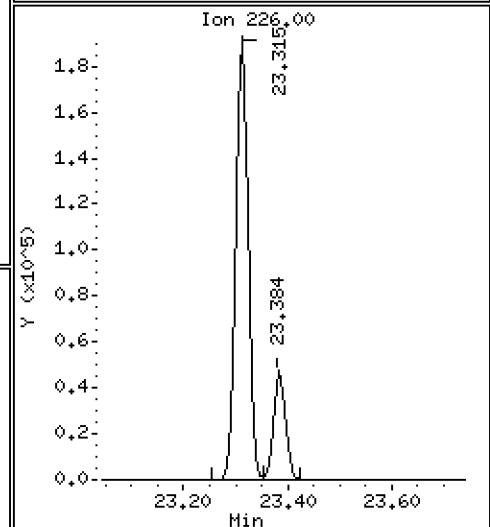
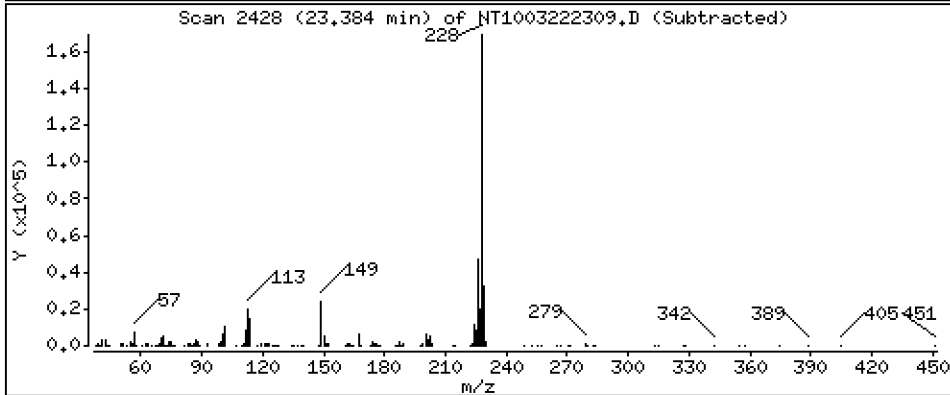
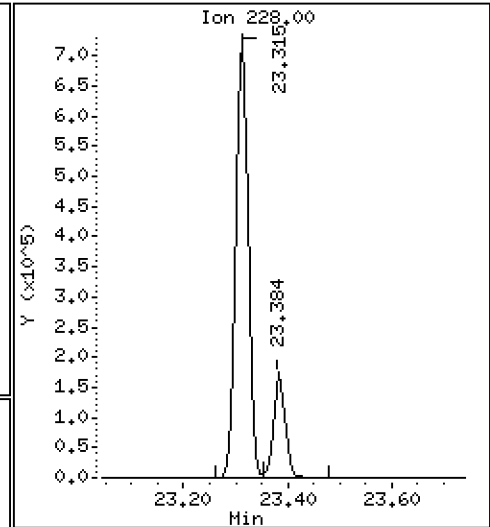
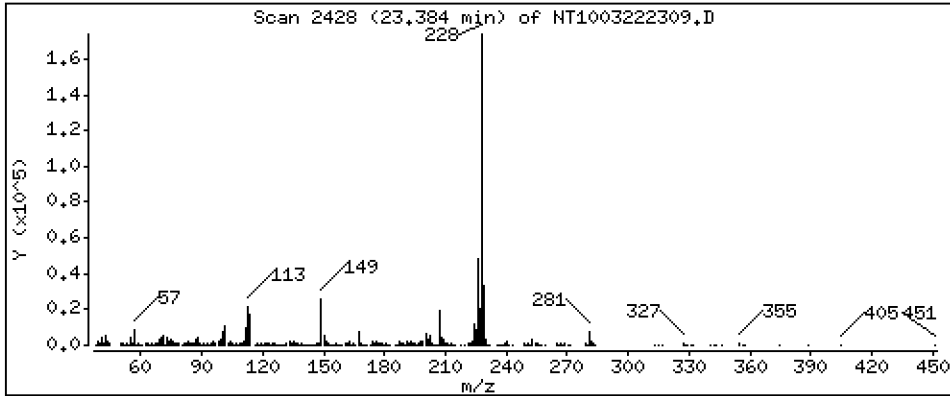
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 1,370 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

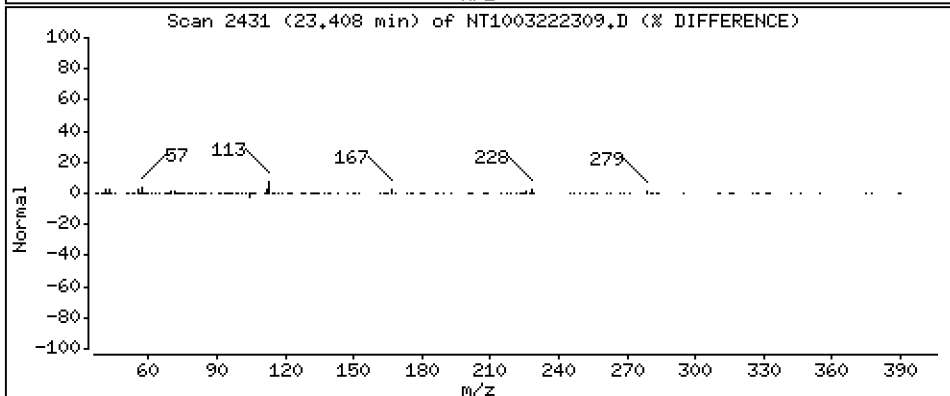
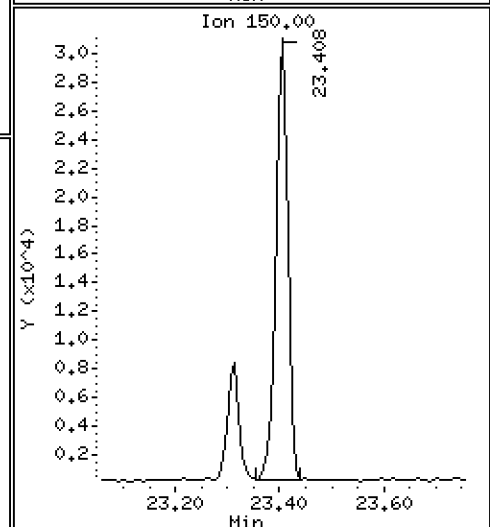
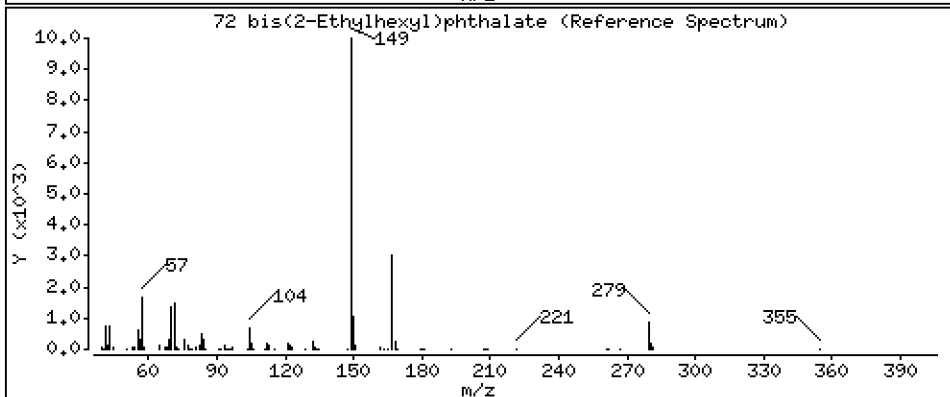
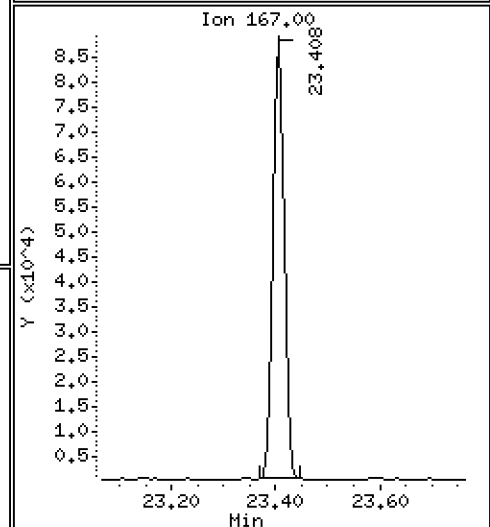
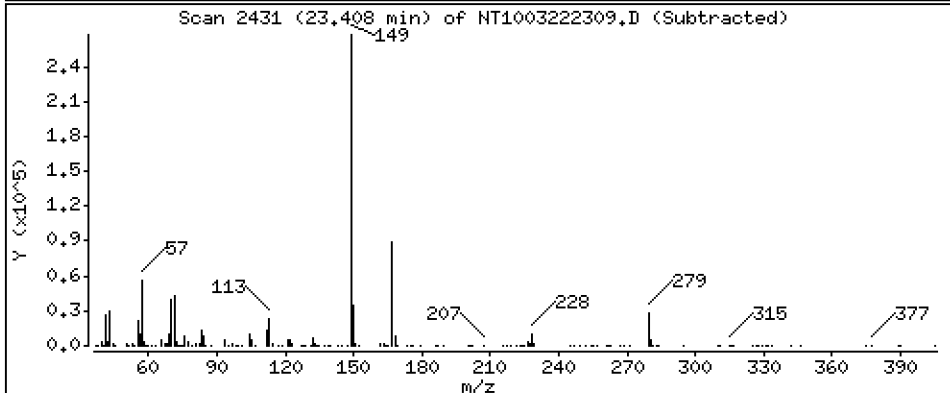
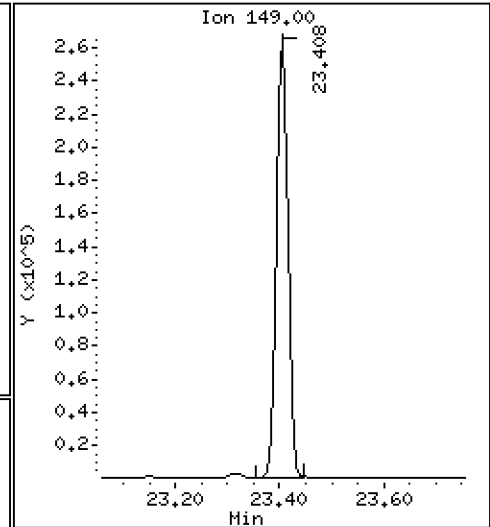
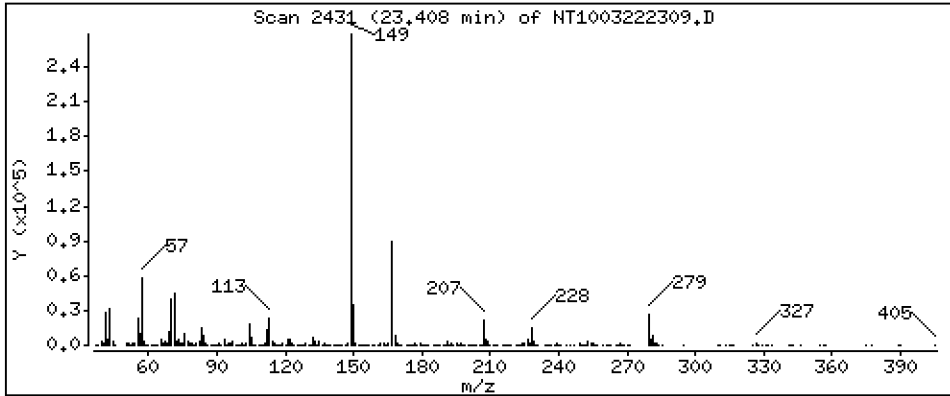
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 2,761 ug/mL





Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

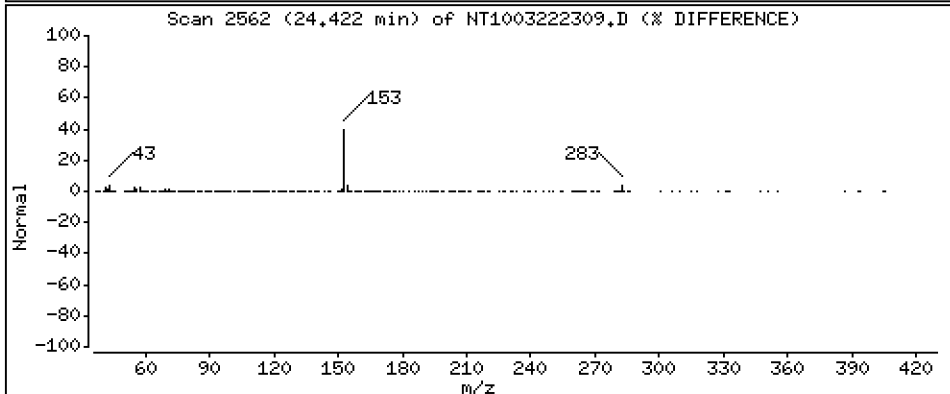
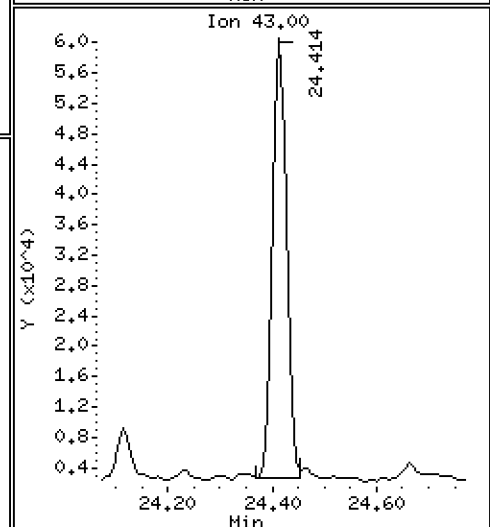
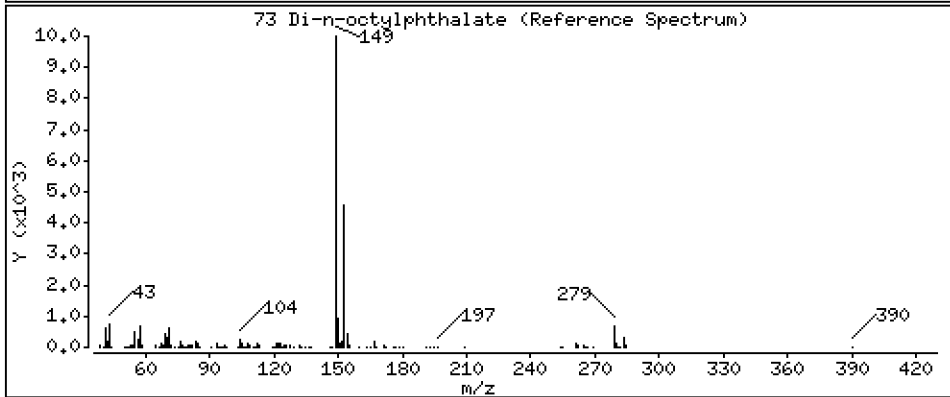
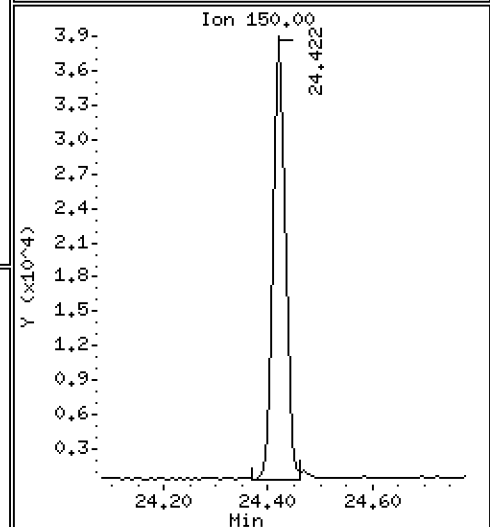
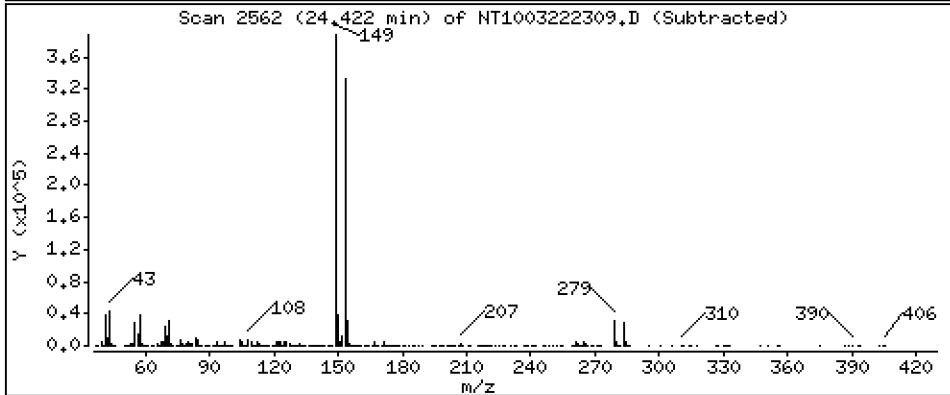
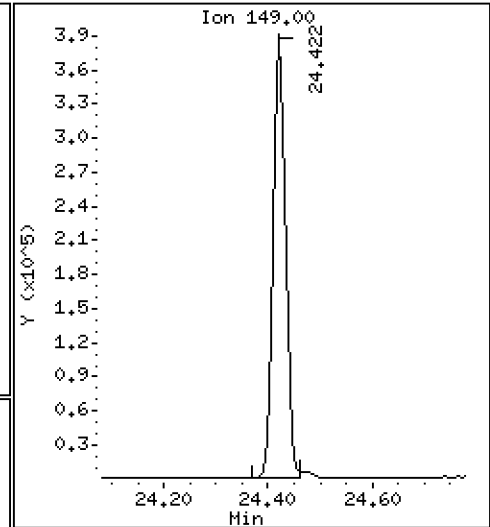
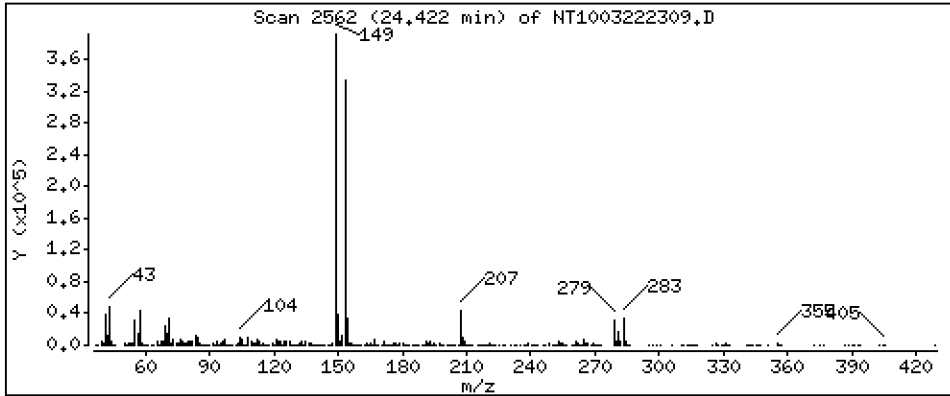
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 2,536 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

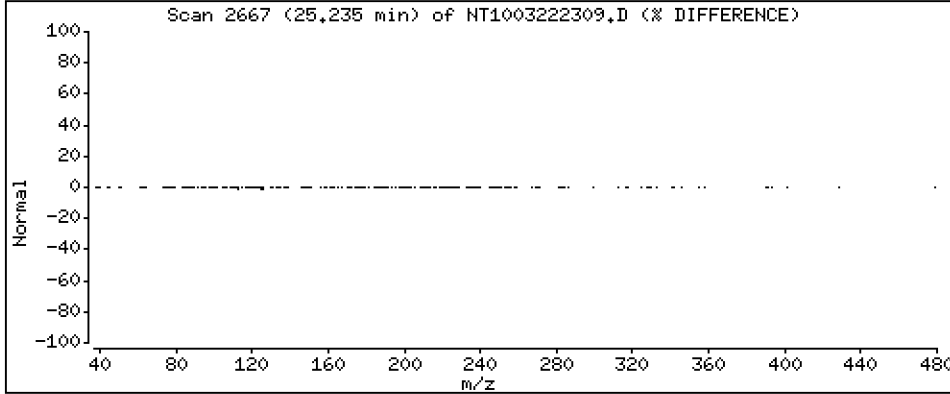
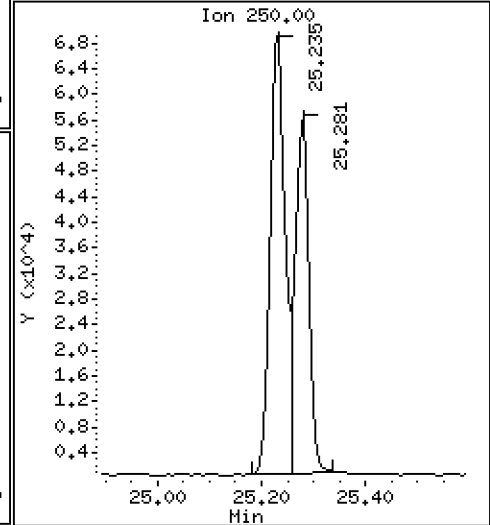
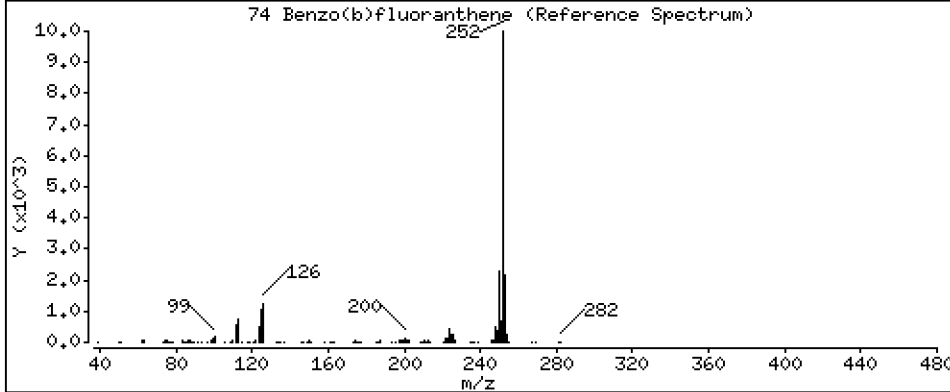
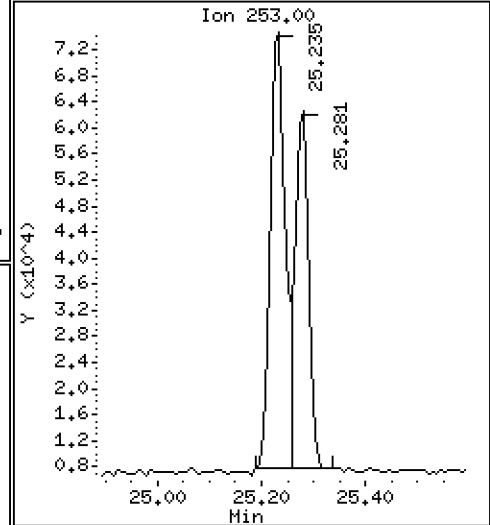
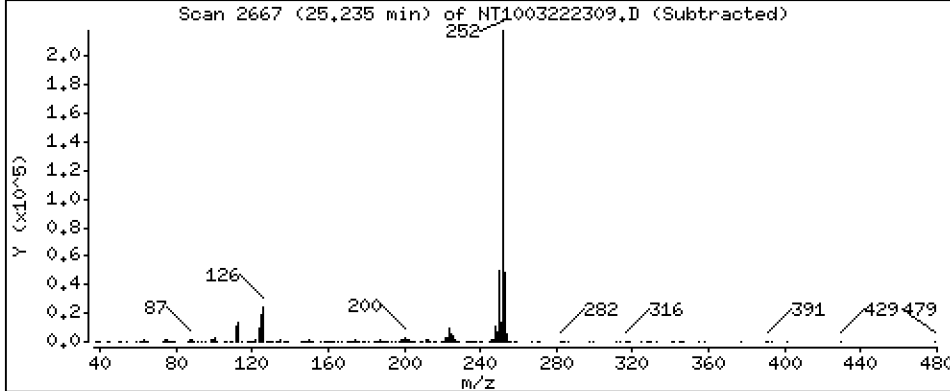
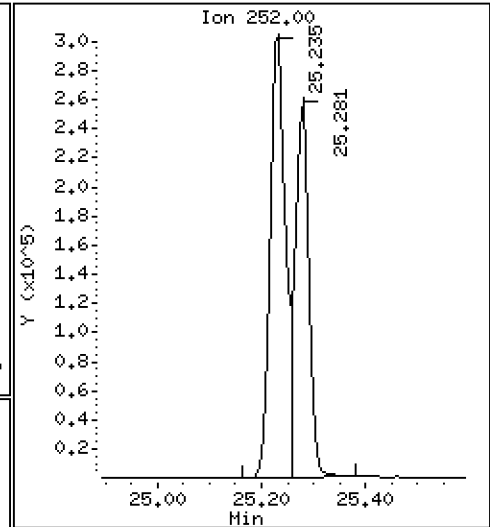
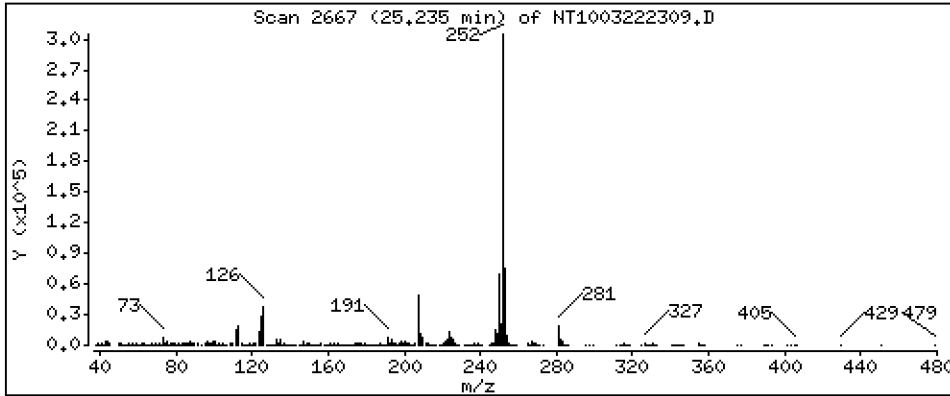
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 3,181 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

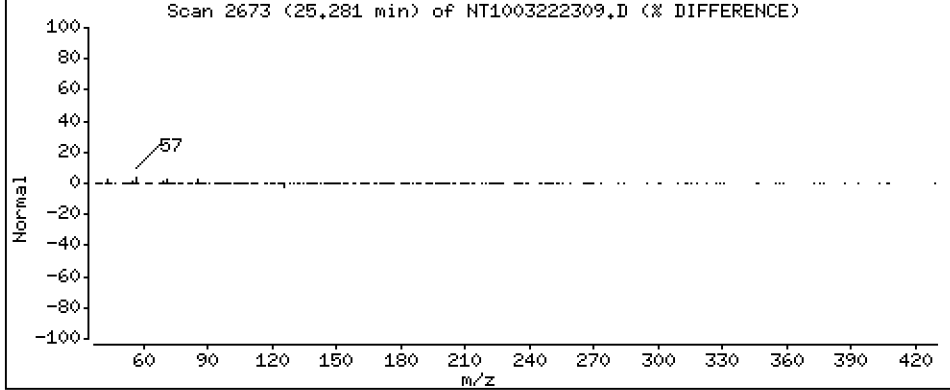
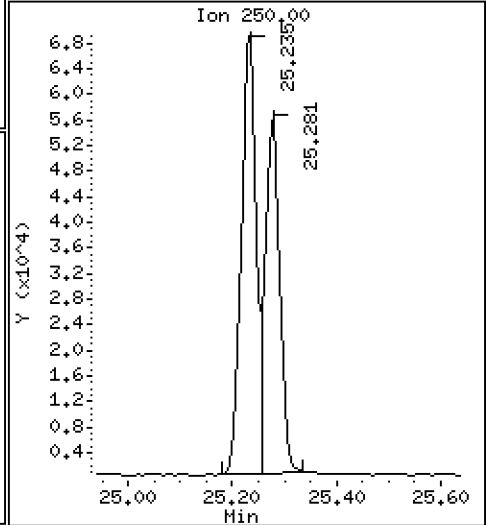
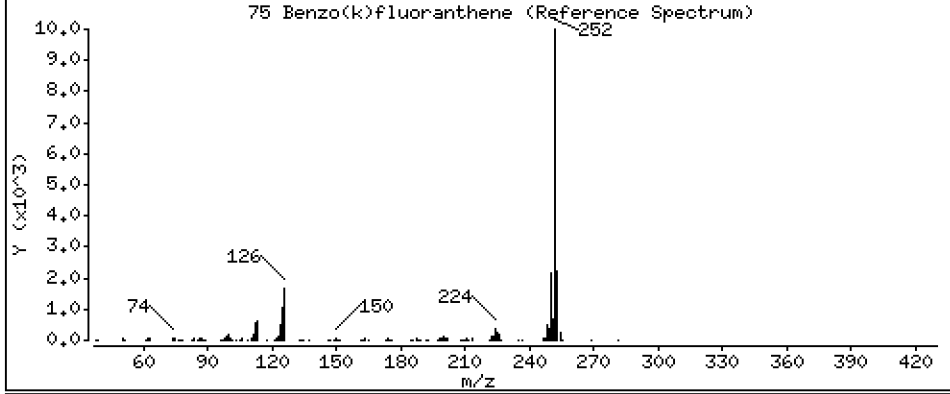
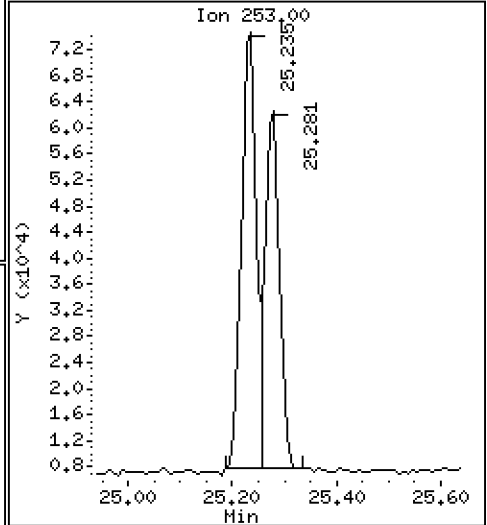
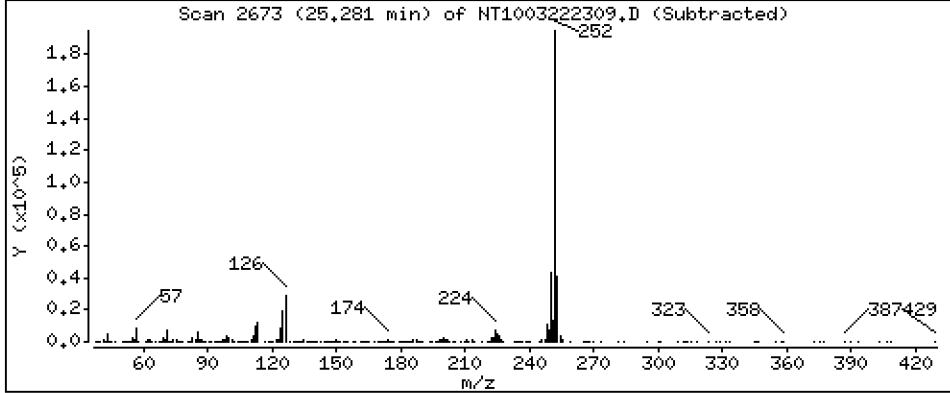
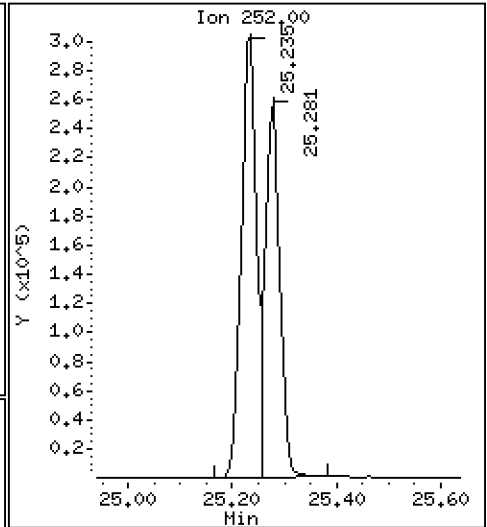
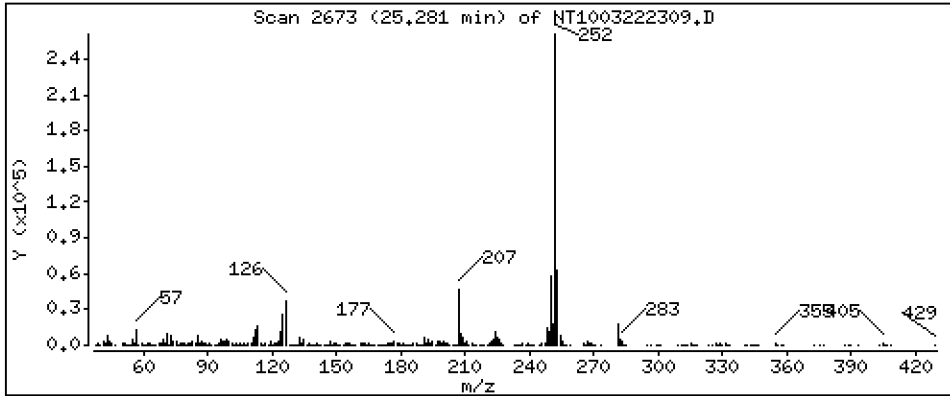
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 2,475 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

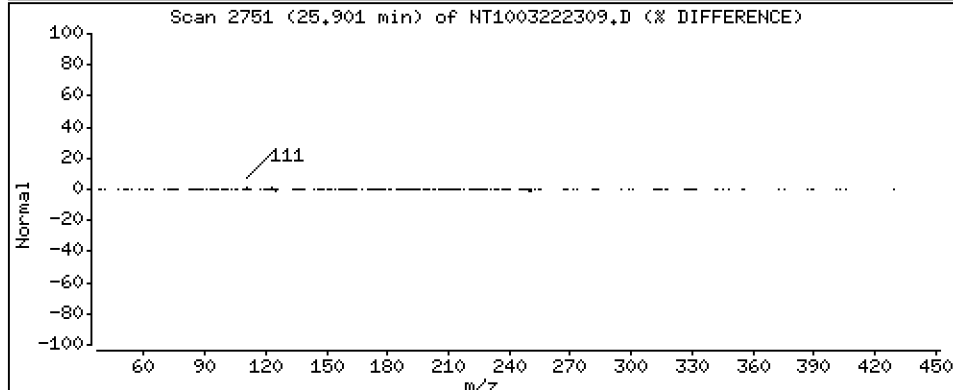
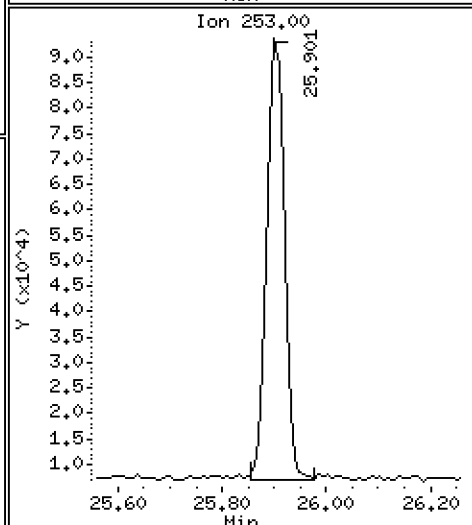
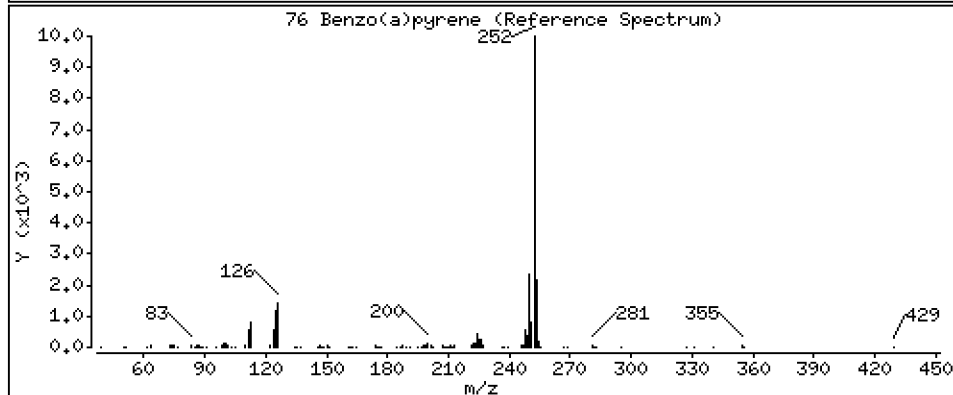
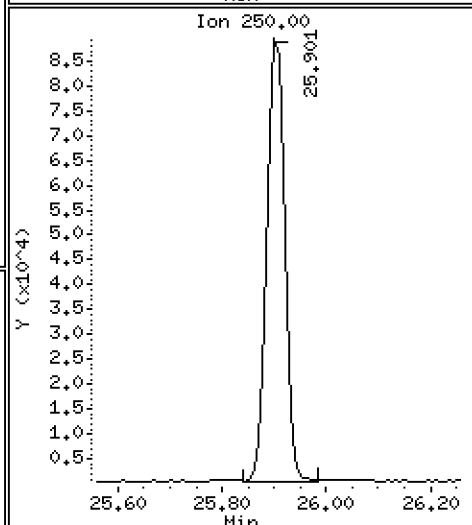
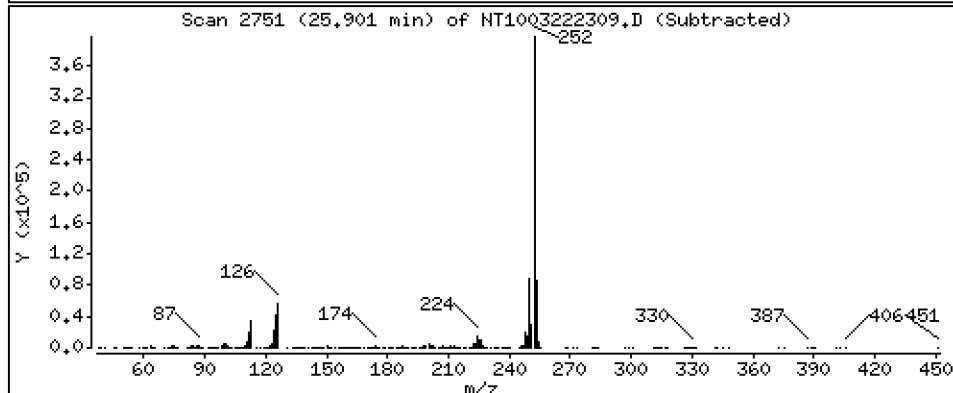
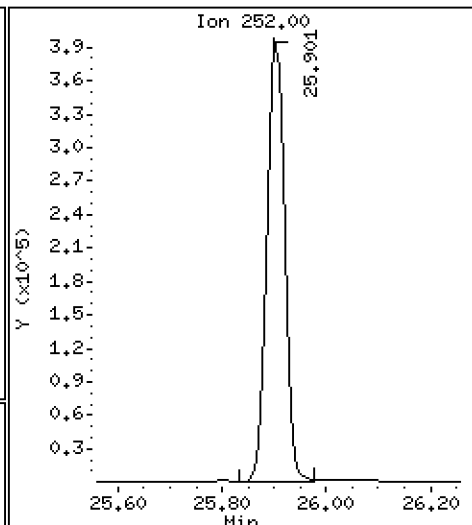
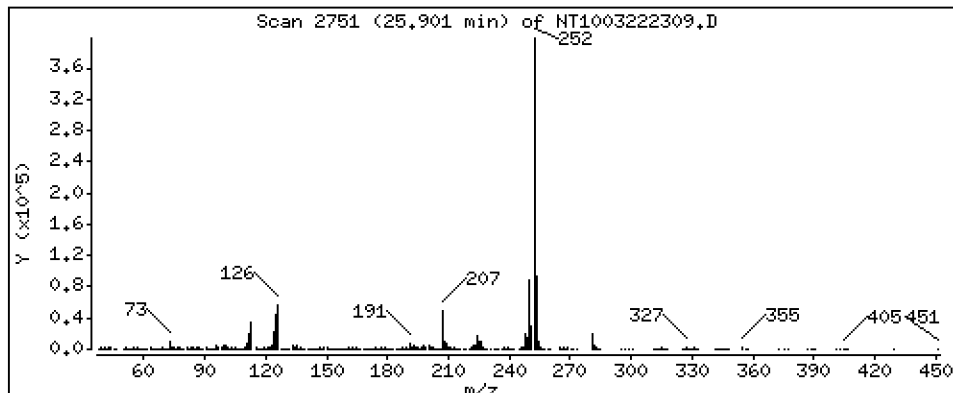
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 5,035 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

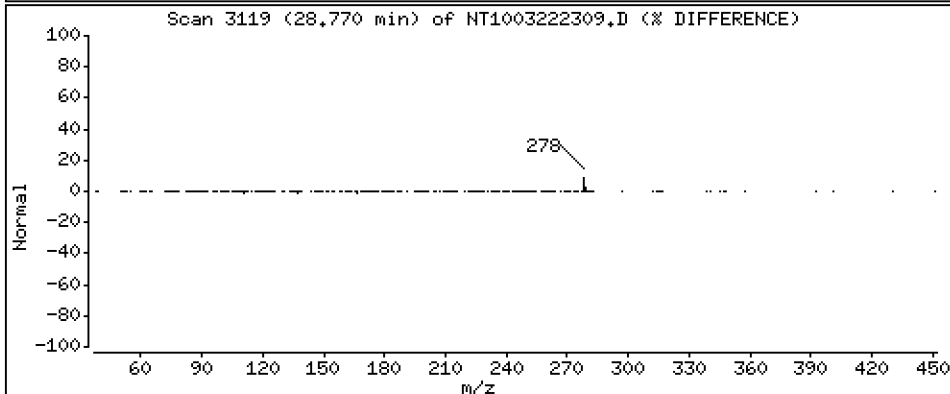
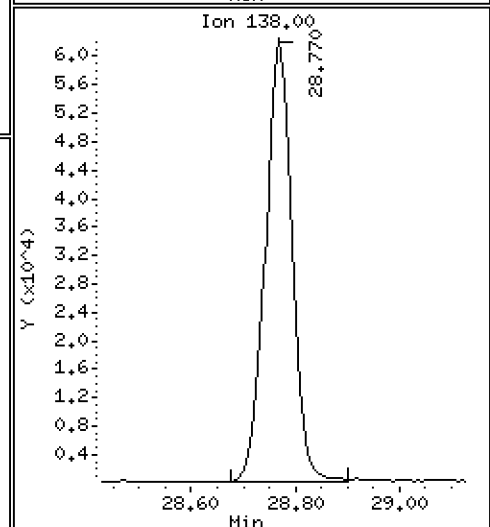
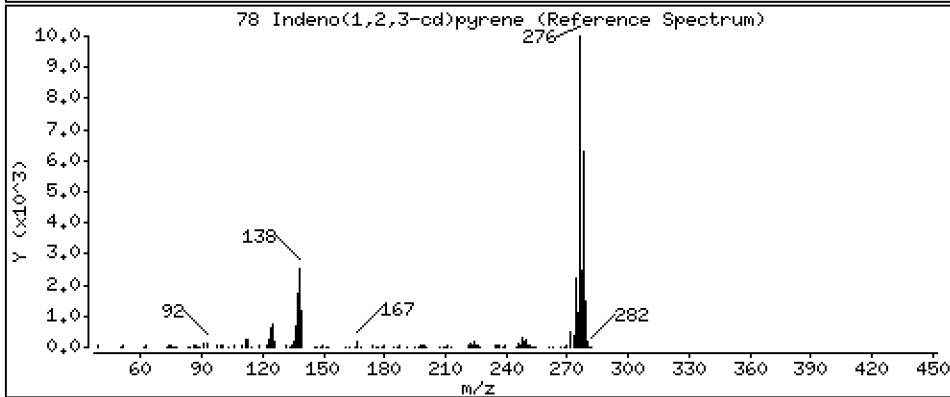
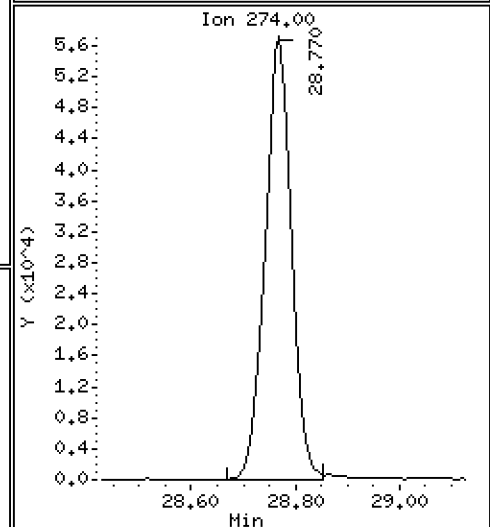
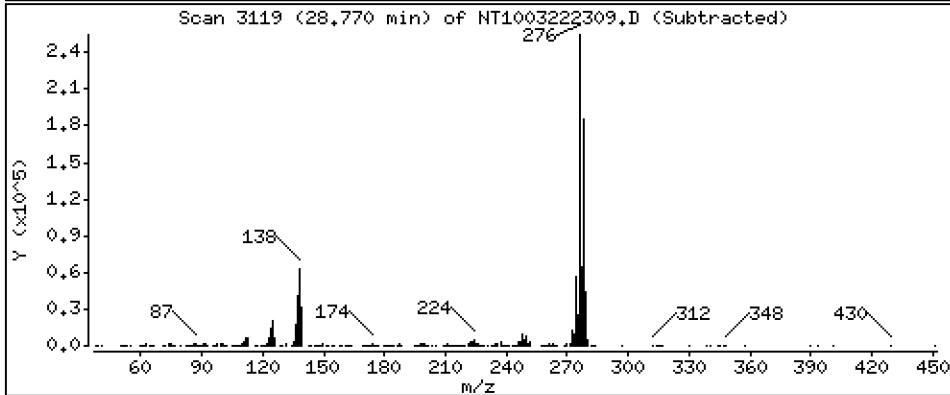
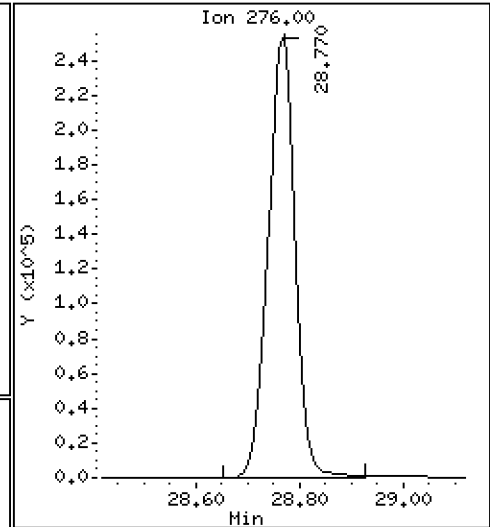
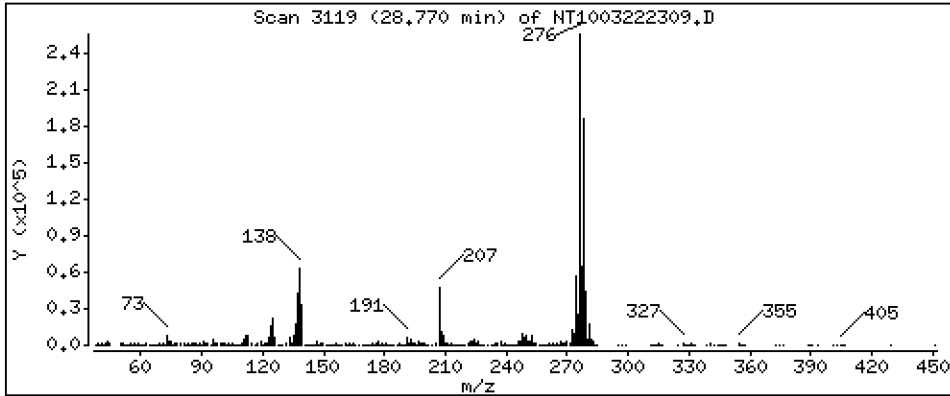
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 3,946 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

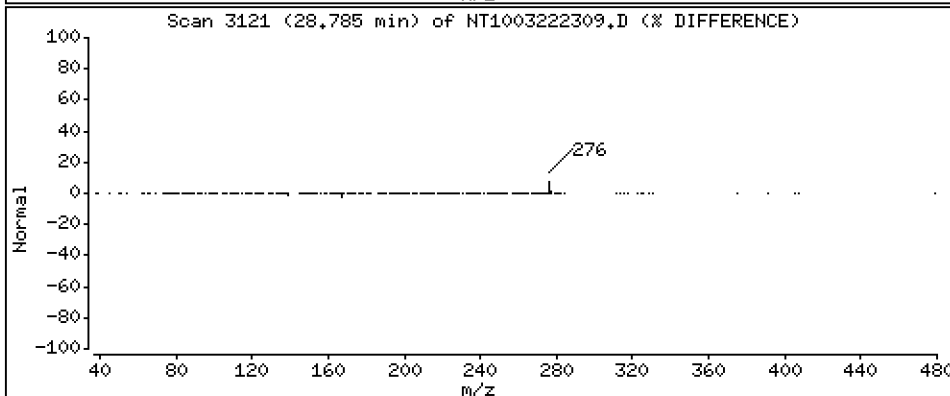
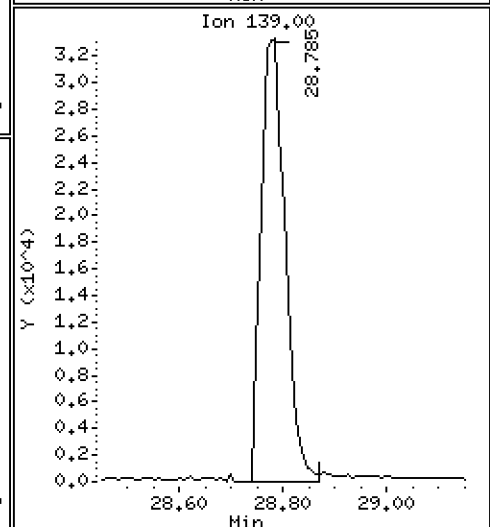
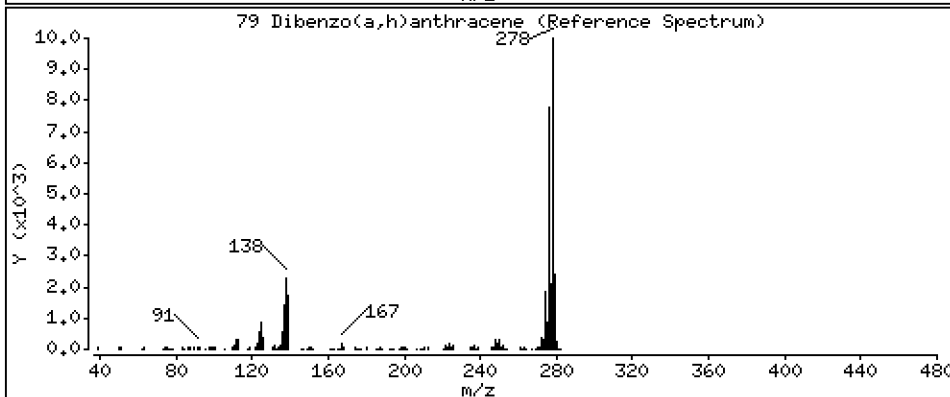
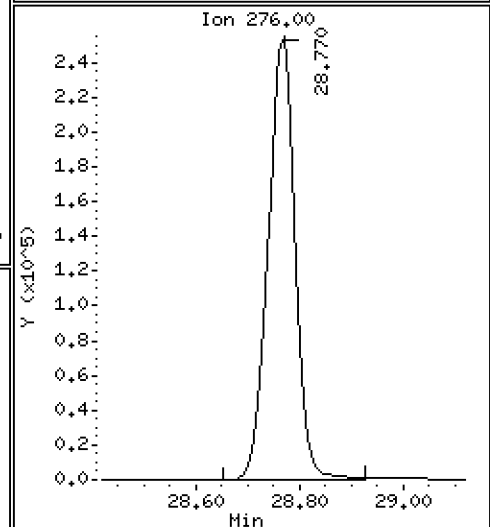
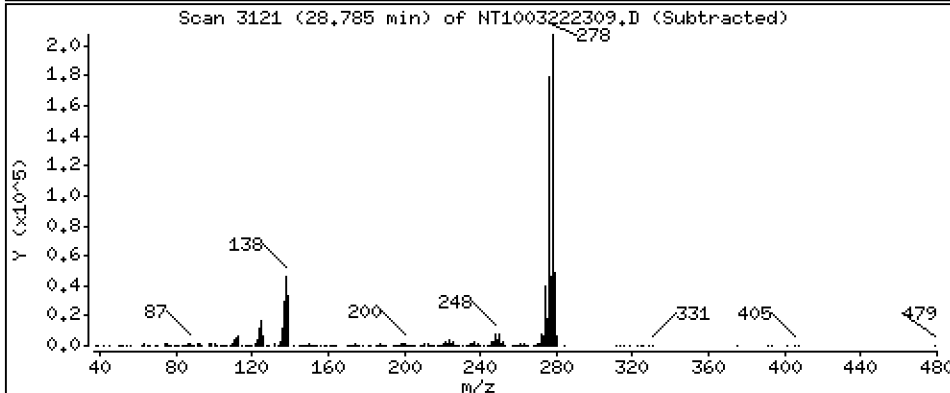
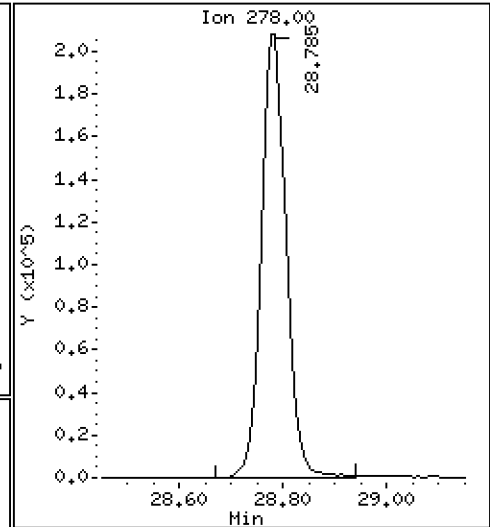
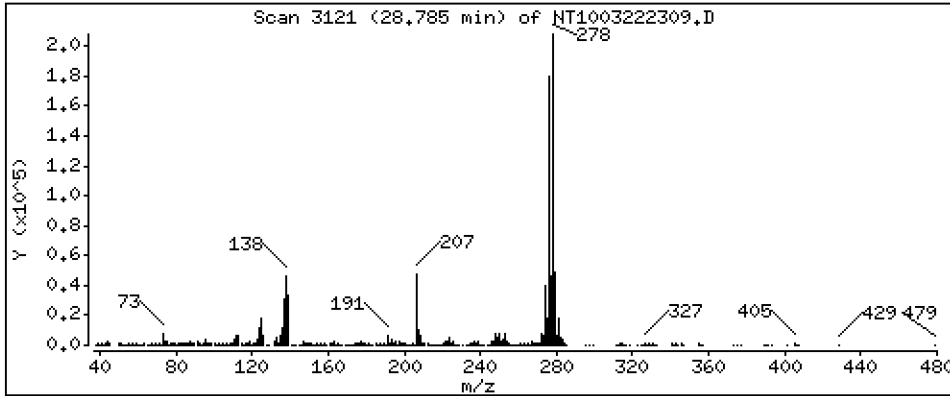
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 3,627 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

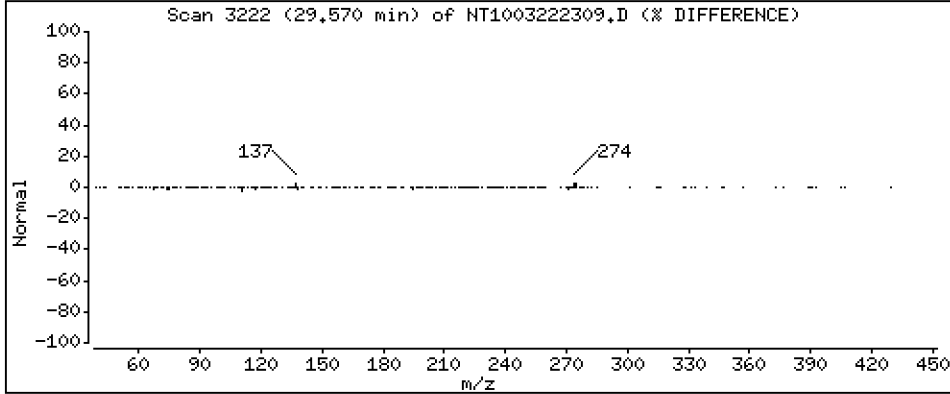
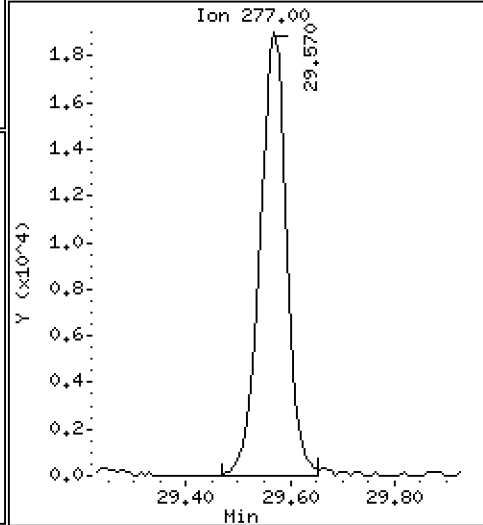
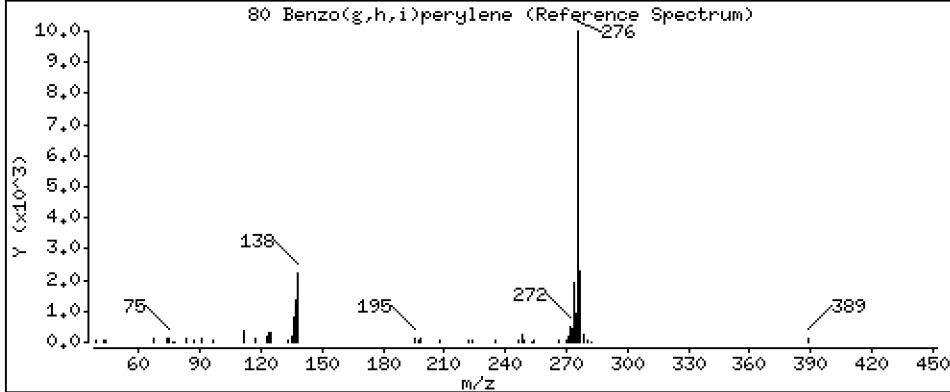
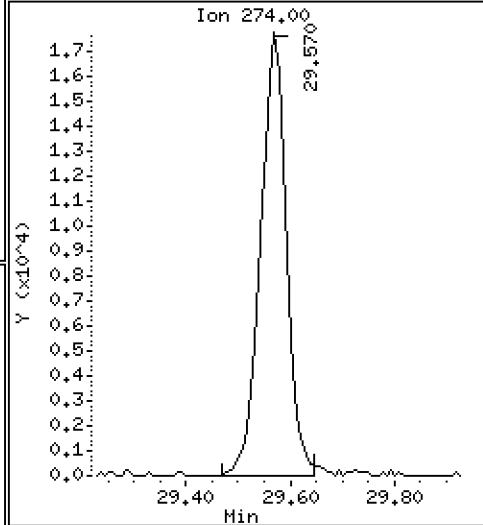
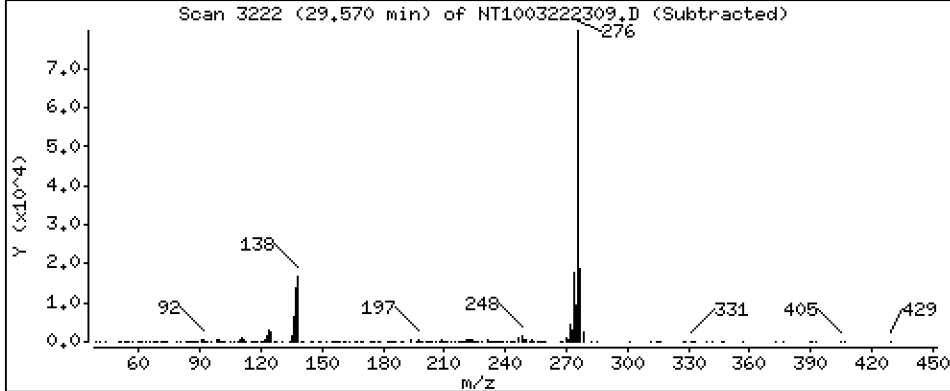
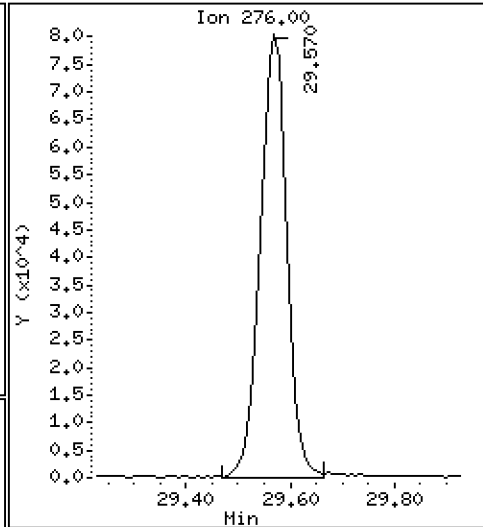
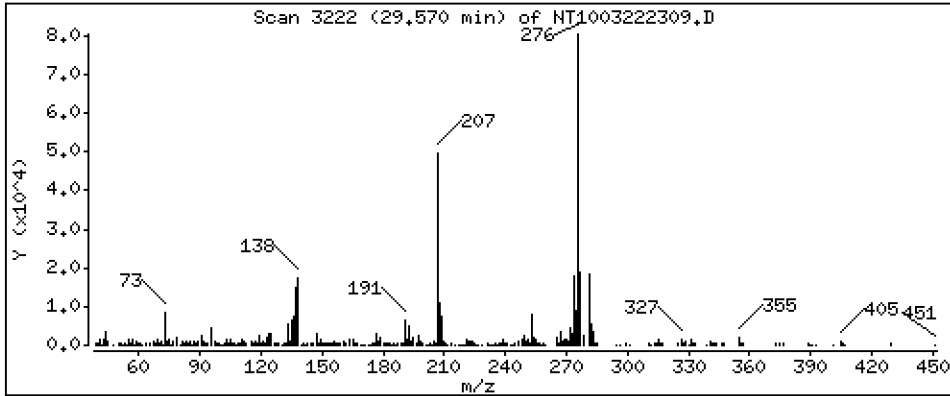
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 1,420 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

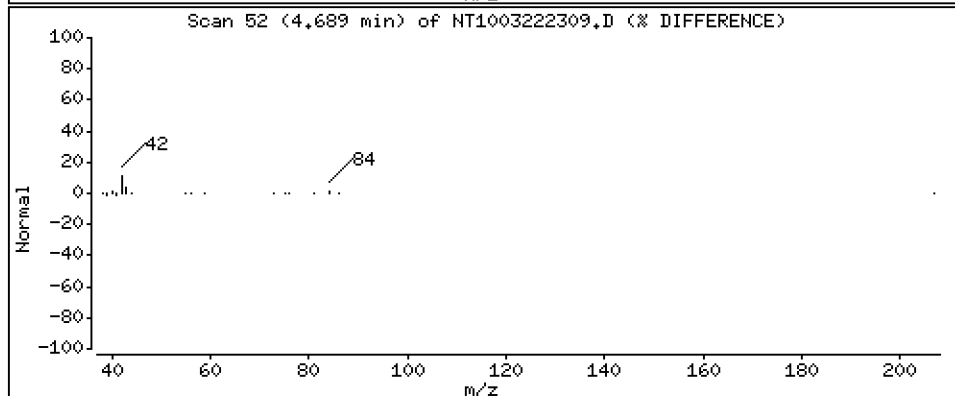
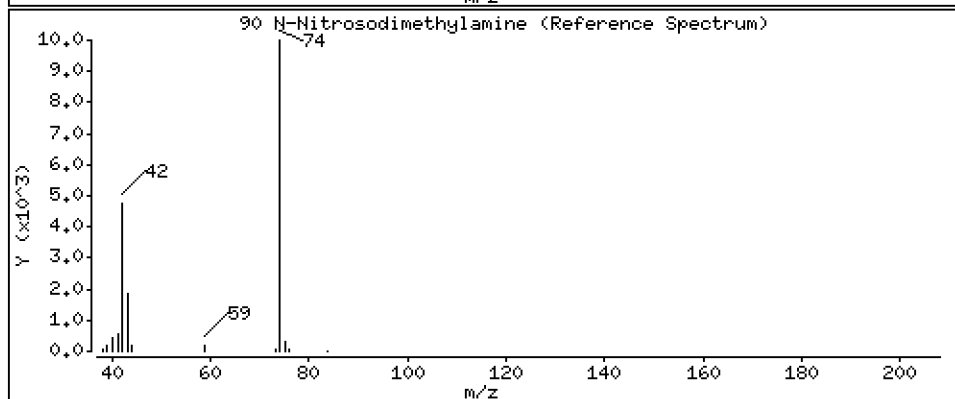
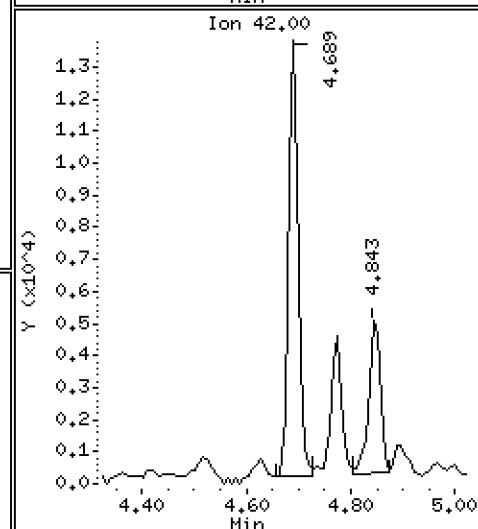
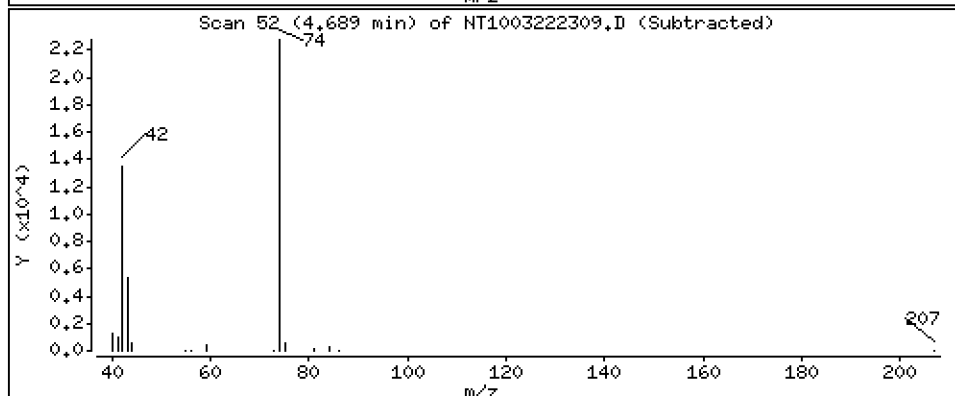
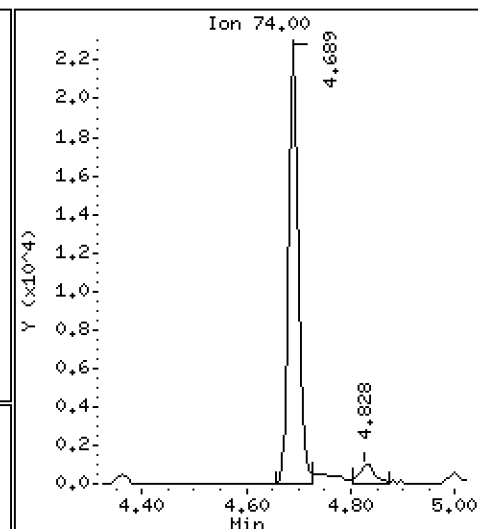
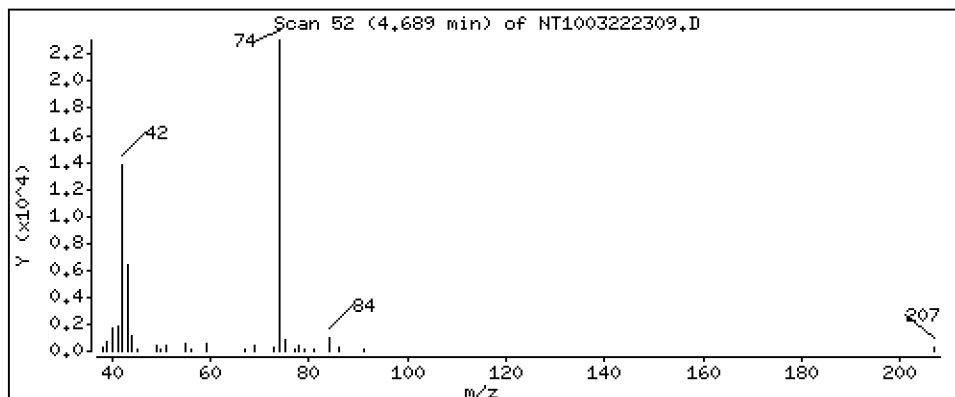
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,9093 ug/mL





Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

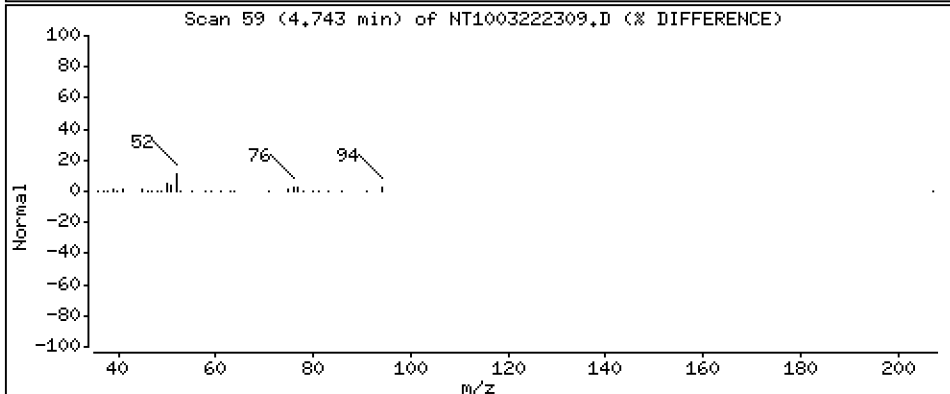
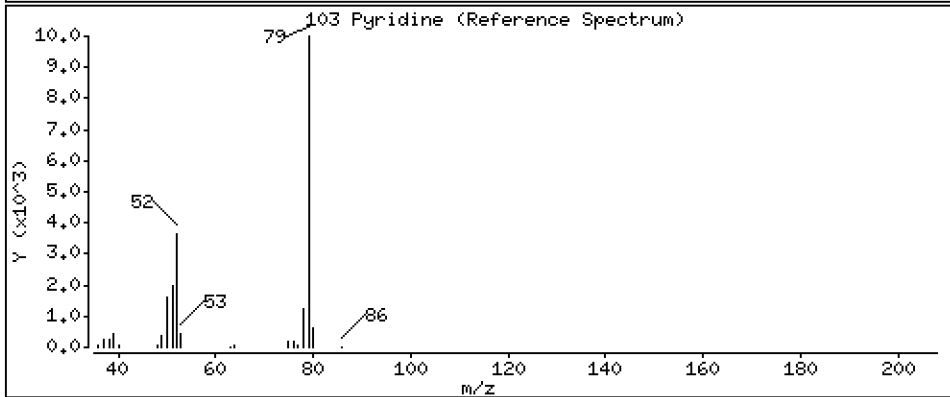
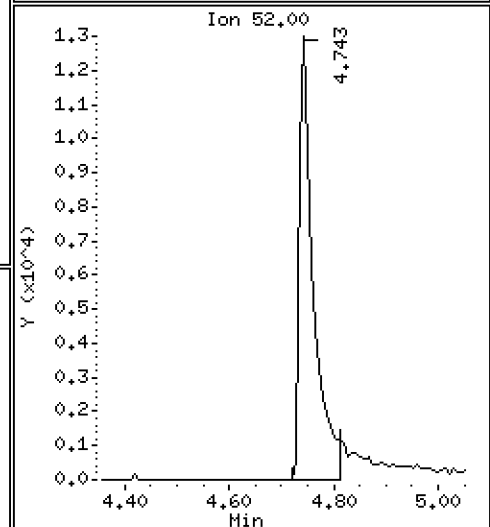
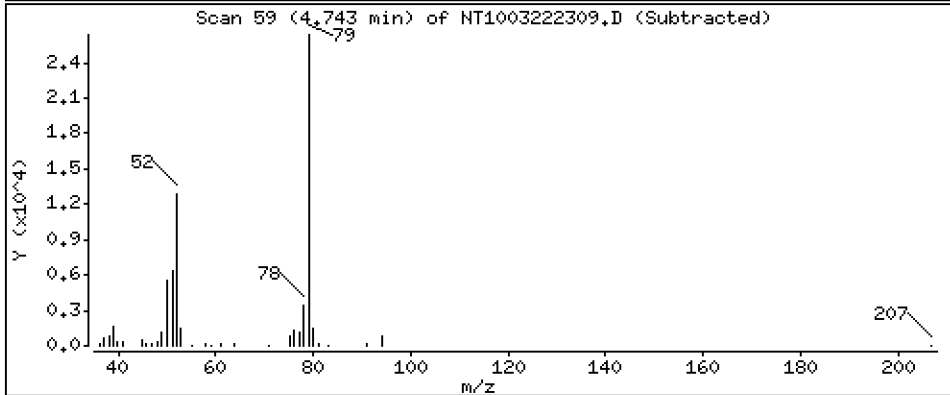
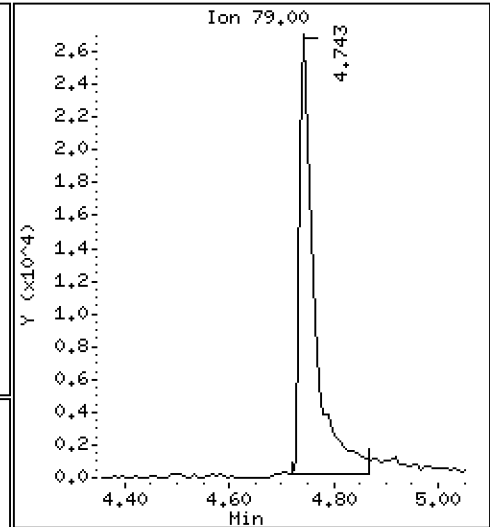
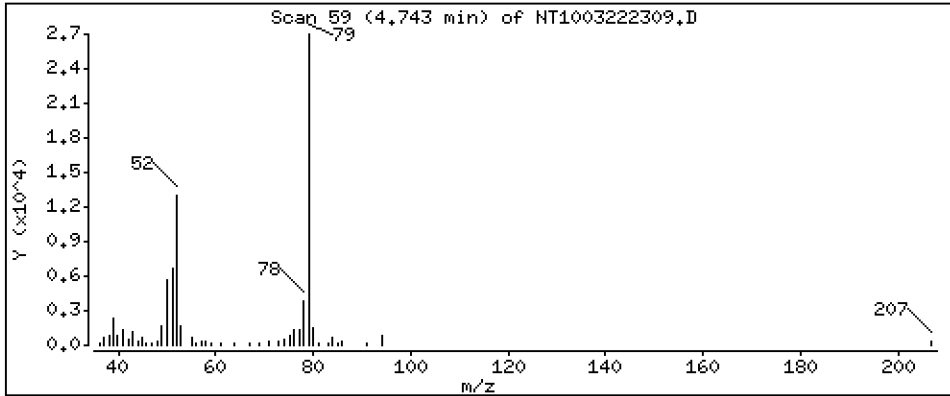
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 1,076 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

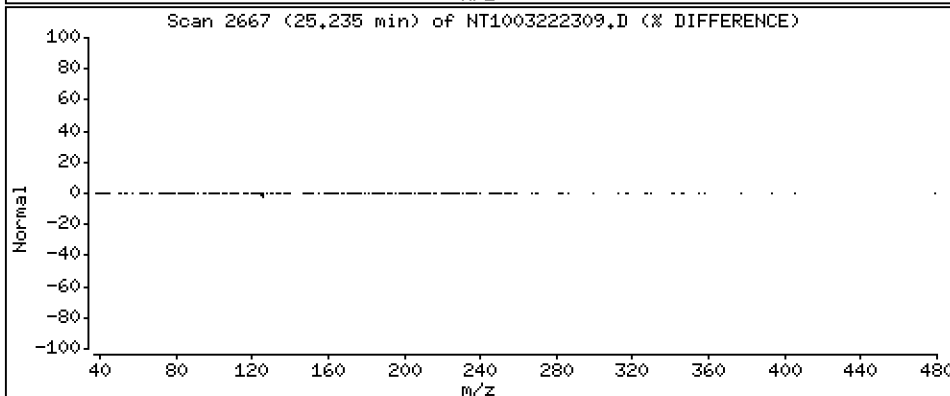
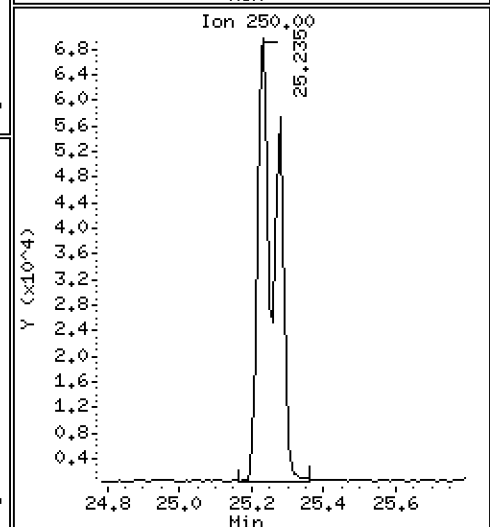
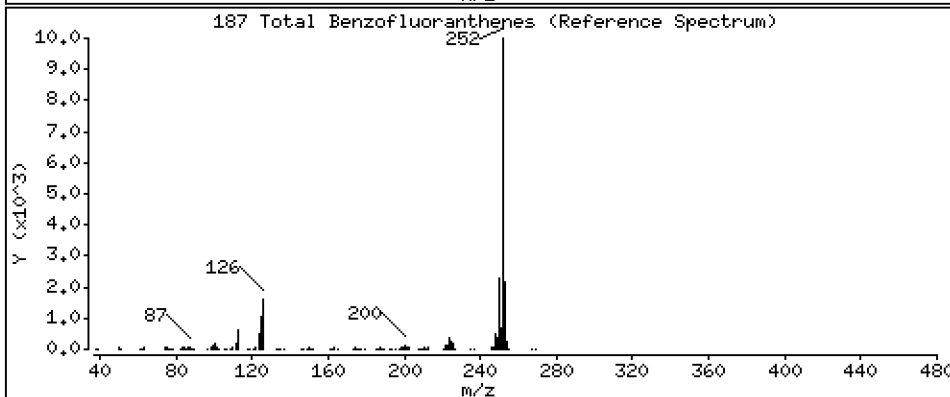
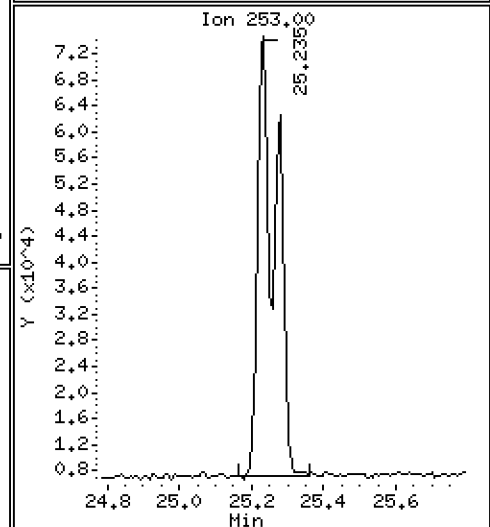
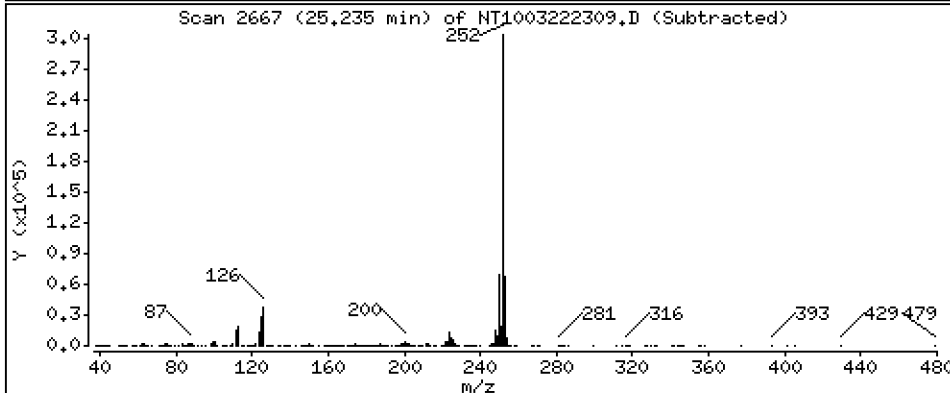
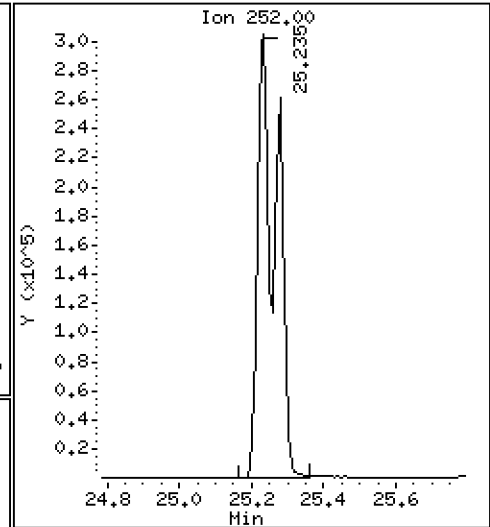
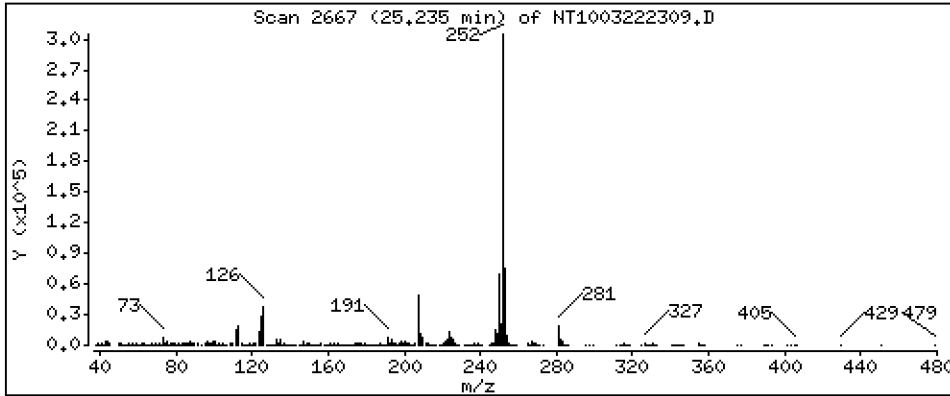
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 5,643 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

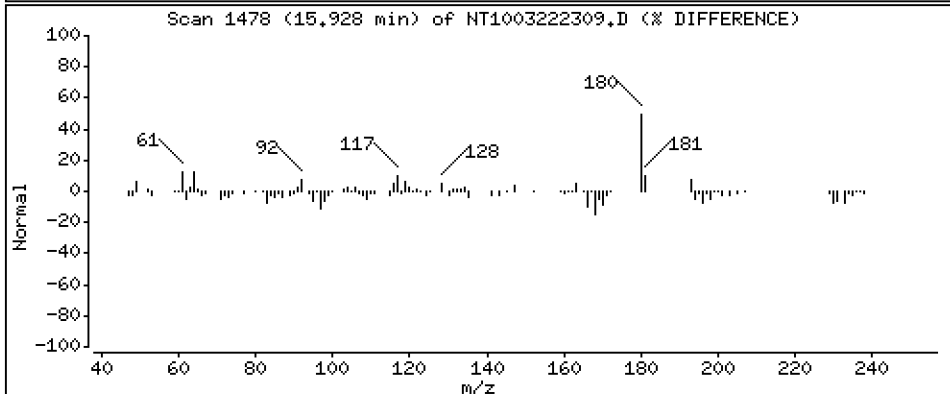
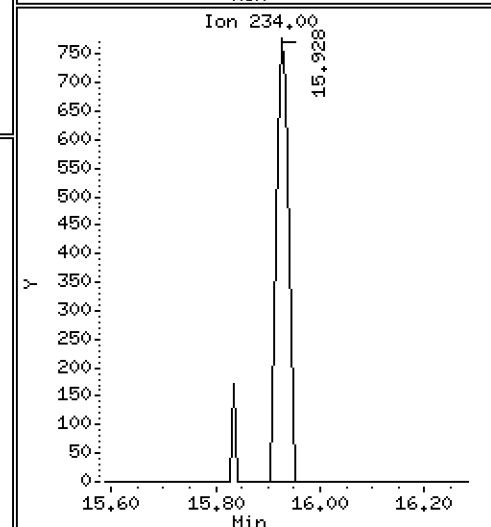
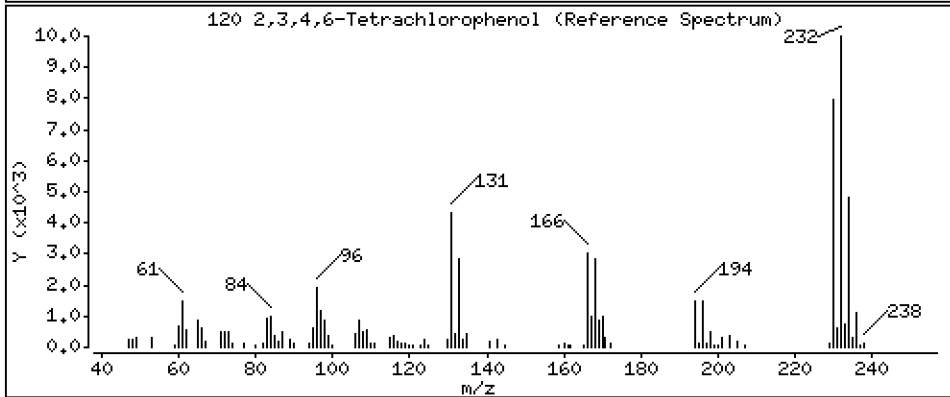
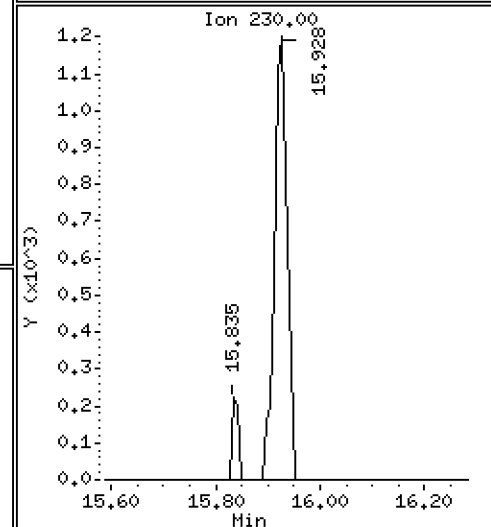
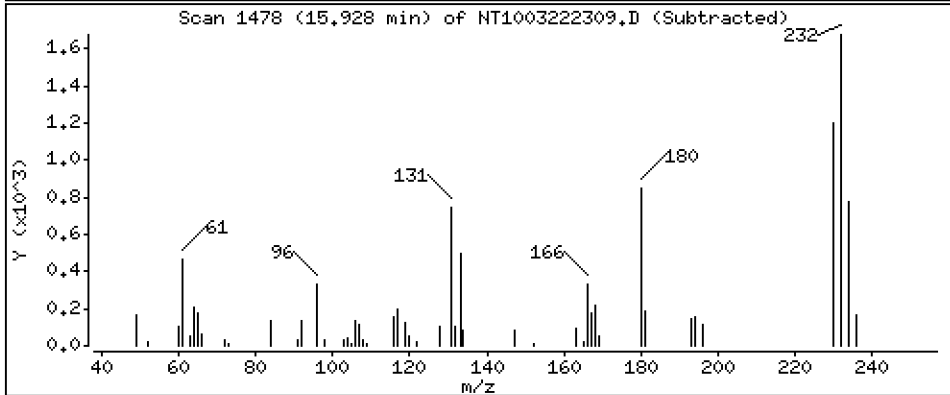
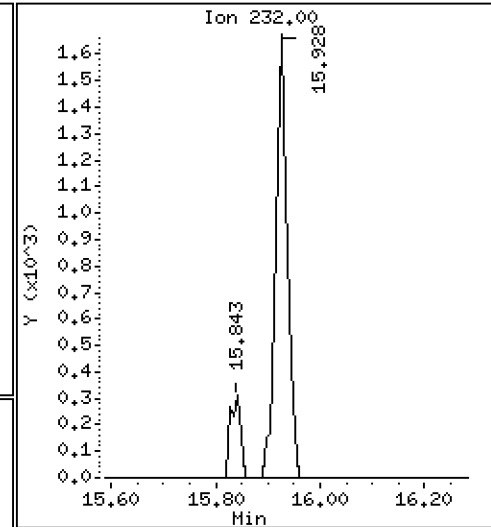
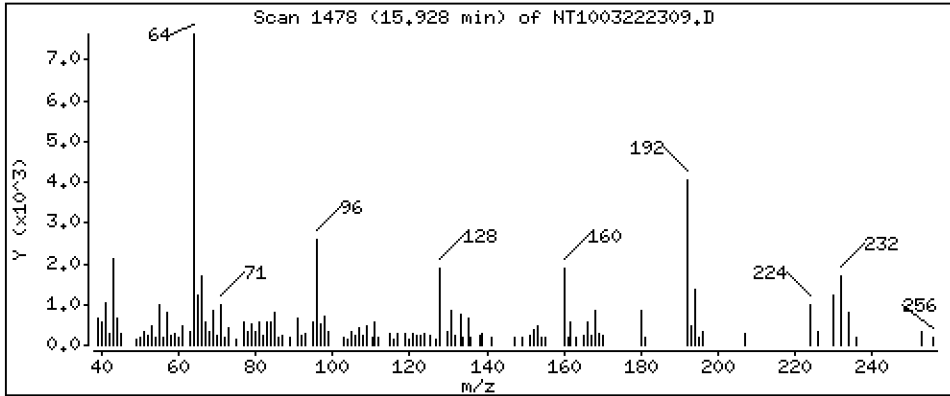
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,07286 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222309.D  
 Lab Smp Id: BLC0442-SRM1  
 Inj Date : 22-MAR-2023 22:10  
 Operator : VTS  
 Smp Info : BLC0442-SRM1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 07:55 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 9  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |           |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-----------|
|                                 |       |     |                        |        |         |          | ON-COLUMN      | FINAL     |
|                                 | MASS  |     |                        |        |         |          | (ug/mL)        | (ug/mL)   |
| \$ 1 2-Fluorophenol             | 112   |     | 6.867                  | 6.851  | (0.756) | 309830   | 5.82087        | 5.821     |
| \$ 2 Phenol-d5                  | 99    |     | 8.450                  | 8.450  | (0.930) | 421399   | 6.03494        | 6.035     |
| 3 Phenol                        | 94    |     | 8.474                  | 8.473  | (0.933) | 184067   | 2.53673        | 2.537     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.721                  | 8.721  | (0.960) | 380457   | 6.38063        | 6.381     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | Compound Not Detected. |        |         |          |                |           |
| 6 2-Chlorophenol                | 128   |     | 8.752                  | 8.752  | (0.963) | 87138    | 1.40315        | 1.403     |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.015                  | 9.022  | (0.992) | 68851    | 1.04869        | 1.049     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.084                  | 9.084  | (1.000) | 176010   | 4.00000        |           |
| 9 1,4-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |           |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.441                  | 9.449  | (1.039) | 167201   | 3.90462        | 3.905     |
| 12 1,2-Dichlorobenzene          | 146   |     | Compound Not Detected. |        |         |          |                |           |
| 11 Benzyl alcohol               | 108   |     | Compound Not Detected. |        |         |          |                |           |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.659                  | 9.659  | (1.063) | 53617    | 2.92503        | 2.925 (H) |
| 13 2-Methylphenol               | 108   |     | 9.581                  | 9.589  | (1.055) | 300306   | 5.67745        | 5.677     |
| 17 Hexachloroethane             | 117   |     | Compound Not Detected. |        |         |          |                |           |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | Compound Not Detected. |        |         |          |                |           |
| 15 4-Methylphenol               | 108   |     | 9.853                  | 9.853  | (1.085) | 390523   | 7.00709        | 7.007     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.179                 | 10.187 | (0.880) | 257029   | 4.06359        | 4.064     |
| 19 Nitrobenzene                 | 77    |     | 10.218                 | 10.218 | (0.883) | 166965   | 2.68981        | 2.690     |
| 20 Isophorone                   | 82    |     | 10.668                 | 10.668 | (0.922) | 156619   | 1.97233        | 1.972     |
| 21 2-Nitrophenol                | 139   |     | 10.841                 | 10.850 | (0.937) | 207602   | 6.82749        | 6.827     |
| 22 2,4-Dimethylphenol           | 107   |     | 10.901                 | 10.901 | (0.942) | 331643   | 5.81682        | 5.817     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | Compound Not Detected. |        |         |          |                |           |
| 24 Benzoic acid                 | 105   |     | 11.011                 | 11.104 | (0.952) | 33995    | 1.07153        | 1.072     |
| 25 2,4-Dichlorophenol           | 162   |     | 11.300                 | 11.300 | (0.976) | 383618   | 8.40802        | 8.408     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.487                 | 11.487 | (0.993) | 72303    | 1.35002        | 1.350     |
| * 27 Naphthalene-d8             | 136   |     | 11.572                 | 11.572 | (1.000) | 626650   | 4.00000        |           |
| 28 Naphthalene                  | 128   |     | 11.611                 | 11.611 | (1.003) | 670348   | 4.03803        | 4.038     |
| 29 4-Chloroaniline              | 127   |     | Compound Not Detected. |        |         |          |                |           |
| 30 Hexachlorobutadiene          | 225   |     | 11.974                 | 11.974 | (1.035) | 63086    | 2.01031        | 2.010     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.709                 | 12.709 | (1.098) | 108099   | 2.18861        | 2.189     |
| 32 2-Methylnaphthalene          | 142   |     | Compound Not Detected. |        |         |          |                |           |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                |           |

| Compounds                         | QUANT | SIG |                        |        |         |         |          | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|------------------------|--------|---------|---------|----------|----------------------|------------------|
|                                   |       |     | MASS                   | RT     | EXP RT  | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     | 13.630                 | 13.637 | (0.897) | 85474   | 2.48707  | 2.487                |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     | 13.707                 | 13.707 | (0.902) | 146031  | 3.82412  | 3.824                |                  |
| § 36 2-Fluorobiphenyl             | 172   |     | 13.792                 | 13.800 | (0.908) | 591330  | 4.29908  | 4.299                |                  |
| 37 2-Chloronaphthalene            | 162   |     | 14.001                 | 14.009 | (0.922) | 240428  | 2.15875  | 2.159                |                  |
| 38 2-Nitroaniline                 | 65    |     | Compound Not Detected. |        |         |         |          |                      |                  |
| 39 Dimethylphthalate              | 163   |     | 14.698                 | 14.706 | (0.967) | 562303  | 4.97793  | 4.978                |                  |
| 40 Acenaphthylene                 | 152   |     | 14.876                 | 14.884 | (0.979) | 310538  | 1.78936  | 1.789                |                  |
| 41 2,6-Dinitrotoluene             | 165   |     | Compound Not Detected. |        |         |         |          |                      |                  |
| * 42 Acenaphthene-d10             | 164   |     | 15.193                 | 15.193 | (1.000) | 347719  | 4.00000  |                      |                  |
| 43 3-Nitroaniline                 | 138   |     | Compound Not Detected. |        |         |         |          |                      |                  |
| 44 Acenaphthene                   | 153   |     | 15.263                 | 15.263 | (1.005) | 592933  | 5.53035  | 5.530                |                  |
| 45 2,4-Dinitrophenol              | 184   |     | 15.332                 | 15.340 | (1.009) | 88310   | 5.92828  | 5.928                |                  |
| 46 Dibenzofuran                   | 168   |     | 15.587                 | 15.595 | (1.026) | 1003538 | 6.34733  | 6.347                |                  |
| 47 4-Nitrophenol                  | 109   |     | 15.456                 | 15.456 | (1.017) | 121339  | 7.03506  | 7.035                |                  |
| 48 2,4-Dinitrotoluene             | 165   |     | 15.649                 | 15.657 | (1.030) | 145044  | 3.95416  | 3.954                |                  |
| 50 Diethylphthalate               | 149   |     | 16.160                 | 16.175 | (1.064) | 32794   | 0.29589  | 0.2959               |                  |
| 49 Fluorene                       | 166   |     | 16.306                 | 16.306 | (1.073) | 481389  | 3.87015  | 3.870                |                  |
| 51 4-Chlorophenyl-phenylether     | 204   |     | 16.298                 | 16.298 | (1.073) | 137812  | 2.32992  | 2.330                |                  |
| 52 4-Nitroaniline                 | 138   |     | Compound Not Detected. |        |         |         |          |                      |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     | 16.491                 | 16.499 | (0.904) | 169438  | 8.66485  | 8.665                |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     | 16.545                 | 16.553 | (0.907) | 304483  | 3.55183  | 3.552                |                  |
| § 55 2,4,6-Tribromophenol         | 330   |     | 16.838                 | 16.846 | (1.108) | 145681  | 9.01108  | 9.011                |                  |
| 56 4-Bromophenyl-phenylether      | 248   |     | 17.309                 | 17.308 | (0.949) | 286019  | 7.97539  | 7.975                |                  |
| 57 Hexachlorobenzene              | 284   |     | Compound Not Detected. |        |         |         |          |                      |                  |
| 58 Pentachlorophenol              | 266   |     | 17.982                 | 17.990 | (0.986) | 99974   | 4.45751  | 4.458                |                  |
| * 59 Phenanthrene-d10             | 188   |     | 18.245                 | 18.253 | (1.000) | 641196  | 4.00000  |                      |                  |
| 60 Phenanthrene                   | 178   |     | 18.299                 | 18.299 | (1.003) | 864684  | 4.94557  | 4.946                |                  |
| 61 Anthracene                     | 178   |     | 18.384                 | 18.392 | (1.008) | 403849  | 2.40792  | 2.408                |                  |
| 62 Carbazole                      | 167   |     | 18.725                 | 18.725 | (1.026) | 914359  | 6.08397  | 6.084                |                  |
| 63 Di-n-butylphthalate            | 149   |     | 19.537                 | 19.545 | (1.071) | 373690  | 1.85275  | 1.853                |                  |
| 64 Fluoranthene                   | 202   |     | 20.698                 | 20.705 | (0.887) | 525370  | 2.41983  | 2.420                |                  |
| 65 Pyrene                         | 202   |     | 21.131                 | 21.131 | (0.905) | 669392  | 3.00558  | 3.006                |                  |
| § 66 Terphenyl-d14                | 244   |     | 21.425                 | 21.425 | (0.918) | 749230  | 4.47955  | 4.480                |                  |
| 67 Butylbenzylphthalate           | 149   |     | 22.362                 | 22.369 | (0.958) | 329474  | 4.10716  | 4.107                |                  |
| 68 Benzo(a)anthracene             | 228   |     | 23.314                 | 23.314 | (0.999) | 1134687 | 5.94960  | 5.950                |                  |
| * 69 Chrysene-d12                 | 240   |     | 23.345                 | 23.345 | (1.000) | 540321  | 4.00000  |                      |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     | Compound Not Detected. |        |         |         |          |                      |                  |
| 71 Chrysene                       | 228   |     | 23.384                 | 23.392 | (1.002) | 255330  | 1.37034  | 1.370                |                  |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 23.407                 | 23.407 | (0.959) | 380122  | 2.76085  | 2.761                |                  |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 24.414                 | 24.413 | (1.000) | 939788  | 4.00000  |                      |                  |
| 73 Di-n-octylphthalate            | 149   |     | 24.421                 | 24.429 | (1.000) | 623664  | 2.53588  | 2.536                |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 25.234                 | 25.242 | (0.970) | 640114  | 3.18104  | 3.181                |                  |
| 75 Benzo(k)fluoranthene           | 252   |     | 25.281                 | 25.288 | (0.971) | 505781  | 2.47531  | 2.475                |                  |
| 76 Benzo(a)pyrene                 | 252   |     | 25.900                 | 25.908 | (0.995) | 905818  | 5.03486  | 5.035                |                  |
| * 77 Perylene-d12                 | 264   |     | 26.024                 | 26.024 | (1.000) | 620785  | 4.00000  |                      |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 28.769                 | 28.769 | (1.105) | 903209  | 3.94608  | 3.946                |                  |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 28.785                 | 28.800 | (1.106) | 689259  | 3.62715  | 3.627                |                  |
| 80 Benzo(g,h,i)perylene           | 276   |     | 29.569                 | 29.577 | (1.136) | 281238  | 1.41980  | 1.420                |                  |
| 90 N-Nitrosodimethylamine         | 74    |     | 4.688                  | 4.673  | (0.516) | 30879   | 0.90933  | 0.9093               |                  |
| 91 Aniline                        | 93    |     | Compound Not Detected. |        |         |         |          |                      |                  |
| 93 Benzidine                      | 184   |     | Compound Not Detected. |        |         |         |          |                      |                  |
| 103 Pyridine                      | 79    |     | 4.742                  | 4.704  | (0.522) | 56093   | 1.07556  | 1.076                |                  |
| 105 1-methylnaphthalene           | 142   |     | Compound Not Detected. |        |         |         |          |                      |                  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     | Compound Not Detected. |        |         |         |          |                      |                  |

| Compounds                     | QUANT SIG |  |        |        |         |          |                      | CONCENTRATIONS   |  |
|-------------------------------|-----------|--|--------|--------|---------|----------|----------------------|------------------|--|
|                               | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |  |
| =====                         | =====     |  | =====  | =====  | =====   | =====    | =====                | =====            |  |
| 187 Total Benzofluoranthenes  | 252       |  | 25.234 | 25.288 | (0.970) | 1096414  | 5.64317              | 5.643            |  |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 15.927 | 15.935 | (1.048) | 2549     | 0.07286              | 0.07286          |  |

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 22-MAR-2023  
 Lab File ID: NT1003222309.D Calibration Time: 17:42  
 Lab Smp Id: BLC0442-SRM1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 122478   | 61239      | 244956  | 176010 | 43.71 |
| 27 Naphthalene-d8     | 459261   | 229631     | 918522  | 626650 | 36.45 |
| 42 Acenaphthene-d10   | 264106   | 132053     | 528212  | 347719 | 31.66 |
| 59 Phenanthrene-d10   | 503255   | 251628     | 1006510 | 641196 | 27.41 |
| 69 Chrysene-d12       | 437735   | 218868     | 875470  | 540321 | 23.44 |
| 134 Di-n-octylphthala | 700191   | 350096     | 1400382 | 939788 | 34.22 |
| 77 Perylene-d12       | 499049   | 249525     | 998098  | 620785 | 24.39 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.08     | 8.58     | 9.58  | 9.08   | 0.00  |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.57  | 0.00  |
| 42 Acenaphthene-d10   | 15.19    | 14.69    | 15.69 | 15.19  | 0.00  |
| 59 Phenanthrene-d10   | 18.25    | 17.75    | 18.75 | 18.25  | -0.04 |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.35  | 0.00  |
| 134 Di-n-octylphthala | 24.41    | 23.91    | 24.91 | 24.41  | 0.00  |
| 77 Perylene-d12       | 26.02    | 25.52    | 26.52 | 26.02  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222309.D

Lab ID: BLC0442-SRM1  
nt10.i, 20230322.b\ABN.m, 22-MAR-2023 22:10

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND     |
|-------|---------|---------|--------------|
| 0.952 | 0.960   | -0.0081 | Benzoic acid |

RRT check based on Ccal File: NT1003222302.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*





**MASS SPECTROMETER  
INSTRUMENT PERFORMANCE CHECK  
EPA 8270E**

|                |                                  |                 |                        |
|----------------|----------------------------------|-----------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:            | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:        | <u>AOC5 MR Phase 1</u> |
| Lab File ID:   | <u>NT1423022801.D</u>            | Injection Date: | <u>02/28/23</u>        |
| Instrument ID: | <u>NT14</u>                      | Injection Time: | <u>11:26</u>           |
| Sequence:      | <u>SLB0374</u>                   | Lab Sample ID:  | <u>SLB0374-TUN1</u>    |

| m/z      | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |      |
|----------|------------------------------------|----------------------|------|
| 68       | Less than 2% of 69                 | 0                    | PASS |
| 69       | Less than 100% of 198              | 36.5                 | PASS |
| 70       | Less than 2% of 69                 | 0                    | PASS |
| 197      | Less than 2% of 198                | 0                    | PASS |
| 198      | Base peak, 100% relative abundance | 100                  | PASS |
| 199      | 5 - 9% of 198                      | 6.68                 | PASS |
| 365      | 1 - 100% of 198                    | 3.19                 | PASS |
| 441      | Less than 150% of 443              | 72.8                 | PASS |
| 442      | 1 - 200% of 198                    | 55.7                 | PASS |
| 443      | 15 - 24% of 442                    | 19.9                 | PASS |
| 4,4'-DDD | Less than 20% of 4,4'-DDT          |                      |      |
| 4,4'-DDE | Less than 20% of 4,4'-DDT          |                      |      |
| 4,4'-DDT | Base peak, 100% relative abundance |                      |      |



**MASS SPECTROMETER  
INSTRUMENT PERFORMANCE CHECK  
EPA 8270E**

|                |                                  |                 |                        |
|----------------|----------------------------------|-----------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:            | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:        | <u>AOC5 MR Phase 1</u> |
| Lab File ID:   | <u>NT1423022801.D</u>            | Injection Date: | <u>02/28/23</u>        |
| Instrument ID: | <u>NT14</u>                      | Injection Time: | <u>11:26</u>           |
| Sequence:      | <u>SLB0374</u>                   | Lab Sample ID:  | <u>SLB0374-TUN1</u>    |

| m/z      | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |      |
|----------|------------------------------------|----------------------|------|
| 68       | Less than 2% of 69                 | 0                    | PASS |
| 69       | Less than 100% of 198              | 36.5                 | PASS |
| 70       | Less than 2% of 69                 | 0                    | PASS |
| 197      | Less than 2% of 198                | 0                    | PASS |
| 198      | Base peak, 100% relative abundance | 100                  | PASS |
| 199      | 5 - 9% of 198                      | 6.68                 | PASS |
| 365      | 1 - 100% of 198                    | 3.19                 | PASS |
| 441      | Less than 150% of 443              | 72.8                 | PASS |
| 442      | 1 - 200% of 198                    | 55.7                 | PASS |
| 443      | 15 - 24% of 442                    | 19.9                 | PASS |
| 4,4'-DDD | Less than 20% of 4,4'-DDT          |                      |      |
| 4,4'-DDE | Less than 20% of 4,4'-DDT          |                      |      |
| 4,4'-DDT | Base peak, 100% relative abundance |                      |      |

| Client Sample ID    | Lab Sample ID | Lab File ID    | Date Analyzed | Time Analyzed |
|---------------------|---------------|----------------|---------------|---------------|
| MS Tune             | SLB0374-TUN1  | NT1423022801.D | 02/28/2023    | 11:26         |
| Cal Standard        | SLB0374-CAL7  | NT1423022802.D | 02/28/2023    | 11:39         |
| Cal Standard        | SLB0374-CAL6  | NT1423022803.D | 02/28/2023    | 12:15         |
| Cal Standard        | SLB0374-CAL5  | NT1423022804.D | 02/28/2023    | 12:51         |
| Cal Standard        | SLB0374-CAL4  | NT1423022805.D | 02/28/2023    | 13:28         |
| Cal Standard        | SLB0374-CAL3  | NT1423022806.D | 02/28/2023    | 14:04         |
| Cal Standard        | SLB0374-CAL2  | NT1423022807.D | 02/28/2023    | 14:40         |
| Cal Standard        | SLB0374-CAL1  | NT1423022808.D | 02/28/2023    | 15:16         |
| Initial Cal Blank   | SLB0374-ICB1  | NT1423022811.D | 02/28/2023    | 17:04         |
| Secondary Cal Check | SLB0374-SCV1  | NT1423022812.D | 02/28/2023    | 17:41         |
| Initial Cal Check   | SLB0374-ICV1  | NT1423022813.D | 03/01/2023    | 8:50          |
| Initial Cal Check   | SLB0374-ICV2  | NT1423022821.D | 03/01/2023    | 13:39         |
| Low Cal Check       | SLB0374-LCV1  | NT1423022823.D | 03/01/2023    | 14:51         |
| Low Cal Check       | SLB0374-LCV2  | NT1423022825.D | 03/01/2023    | 16:04         |
| Blank               | BLA0557-BLK1  | NT1423022826.D | 03/01/2023    | 16:40         |
| LCS                 | BLA0557-BS1   | NT1423022827.D | 03/01/2023    | 17:16         |
| LCS Dup             | BLA0557-BSD1  | NT1423022828.D | 03/01/2023    | 17:52         |
| Reference           | BLA0557-SRM1  | NT1423022829.D | 03/01/2023    | 18:28         |
| LDW23-SS1277        | 23A0179-01    | NT1423022830.D | 03/01/2023    | 19:04         |
| LDW23-SS1271        | 23A0179-02    | NT1423022831.D | 03/01/2023    | 19:40         |
| LDW23-SS1266        | 23A0179-03    | NT1423022832.D | 03/01/2023    | 20:16         |
| LDW23-SS1248        | 23A0179-04    | NT1423022833.D | 03/01/2023    | 20:52         |
| LDW23-SS1239        | 23A0179-05    | NT1423022834.D | 03/01/2023    | 21:28         |
| LDW23-SS1213        | 23A0179-06    | NT1423022835.D | 03/01/2023    | 22:04         |
| Initial Cal Check   | SLB0374-ICV3  | NT1423022836.D | 03/01/2023    | 22:40         |
| Low Cal Check       | SLB0374-LCV3  | NT1423022838.D | 03/01/2023    | 23:52         |



**MASS SPECTROMETER  
INSTRUMENT PERFORMANCE CHECK  
EPA 8270E**

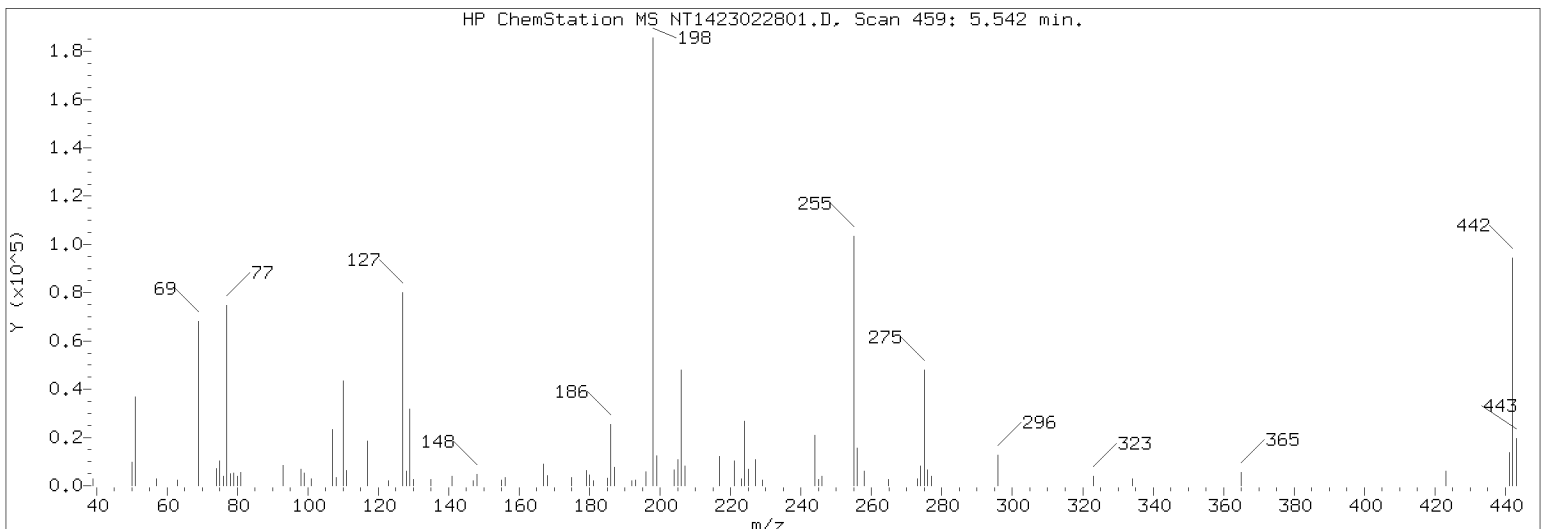
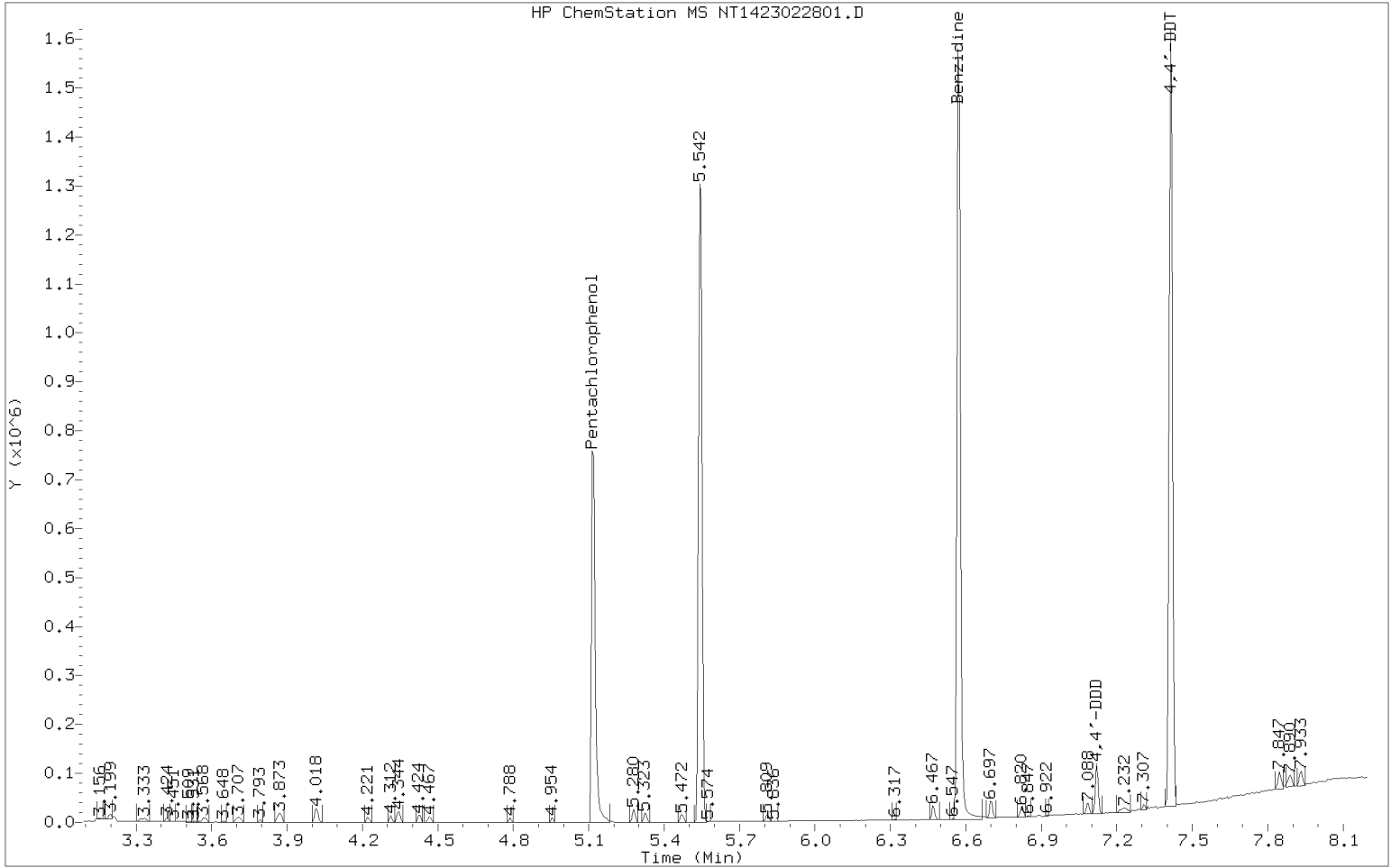
|                |                                  |                 |                        |
|----------------|----------------------------------|-----------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:            | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:        | <u>AOC5 MR Phase 1</u> |
| Lab File ID:   | <u>NT1423022801.D</u>            | Injection Date: | <u>02/28/23</u>        |
| Instrument ID: | <u>NT14</u>                      | Injection Time: | <u>11:26</u>           |
| Sequence:      | <u>SLB0374</u>                   | Lab Sample ID:  | <u>SLB0374-TUN1</u>    |

| m/z      | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |      |
|----------|------------------------------------|----------------------|------|
| 68       | Less than 2% of 69                 | 0                    | PASS |
| 69       | Less than 100% of 198              | 36.5                 | PASS |
| 70       | Less than 2% of 69                 | 0                    | PASS |
| 197      | Less than 2% of 198                | 0                    | PASS |
| 198      | Base peak, 100% relative abundance | 100                  | PASS |
| 199      | 5 - 9% of 198                      | 6.68                 | PASS |
| 365      | 1 - 100% of 198                    | 3.19                 | PASS |
| 441      | Less than 150% of 443              | 72.8                 | PASS |
| 442      | 1 - 200% of 198                    | 55.7                 | PASS |
| 443      | 15 - 24% of 442                    | 19.9                 | PASS |
| 4,4'-DDD | Less than 20% of 4,4'-DDT          |                      |      |
| 4,4'-DDE | Less than 20% of 4,4'-DDT          |                      |      |
| 4,4'-DDT | Base peak, 100% relative abundance |                      |      |

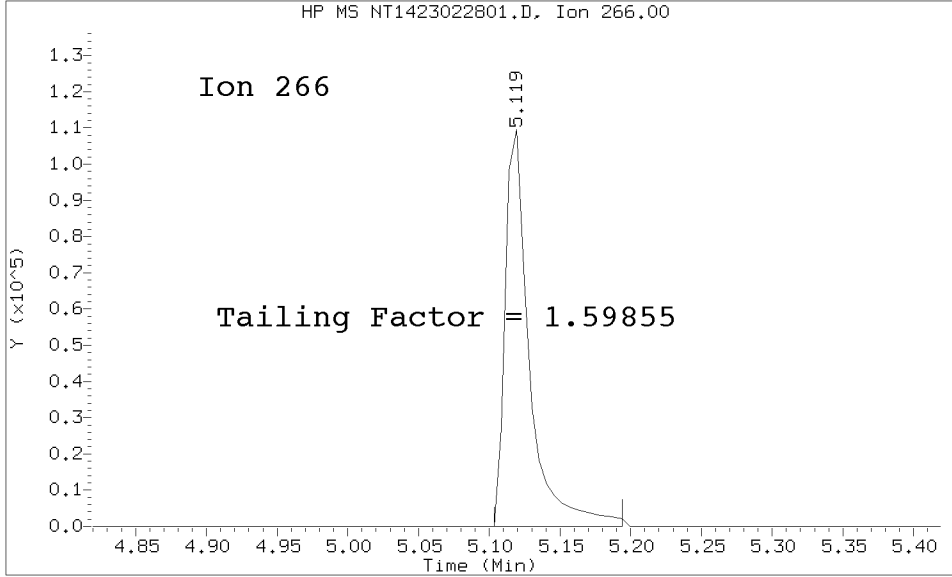
|                   |              |                |            |       |
|-------------------|--------------|----------------|------------|-------|
| Low Cal Check     | SLB0374-LCV4 | NT1423022839.D | 03/02/2023 | 0:28  |
| LDW23-SS1200      | 23A0179-07   | NT1423022840.D | 03/02/2023 | 1:03  |
| LDW23-SS1178      | 23A0179-08   | NT1423022841.D | 03/02/2023 | 1:39  |
| LDW23-SS1039      | 23A0179-11   | NT1423022842.D | 03/02/2023 | 2:15  |
| LDW23-SS1007      | 23A0179-12   | NT1423022843.D | 03/02/2023 | 2:51  |
| ZZZZZ             | 23A0180-01   | NT1423022844.D | 03/02/2023 | 3:27  |
| ZZZZZ             | 23A0180-02   | NT1423022845.D | 03/02/2023 | 4:03  |
| ZZZZZ             | 23A0180-03   | NT1423022846.D | 03/02/2023 | 4:39  |
| ZZZZZ             | 23A0180-04   | NT1423022847.D | 03/02/2023 | 5:15  |
| Initial Cal Check | SLB0374-ICV4 | NT1423022848.D | 03/02/2023 | 5:52  |
| Low Cal Check     | SLB0374-LCV5 | NT1423022850.D | 03/02/2023 | 7:04  |
| Low Cal Check     | SLB0374-LCV6 | NT1423022851.D | 03/02/2023 | 7:40  |
| LDW23-SS1171      | 23A0179-09   | NT1423022852.D | 03/02/2023 | 8:16  |
| LDW23-SS1112      | 23A0179-10   | NT1423022853.D | 03/02/2023 | 8:53  |
| Matrix Spike      | BLA0557-MS1  | NT1423022854.D | 03/02/2023 | 9:29  |
| Matrix Spike Dup  | BLA0557-MSD1 | NT1423022855.D | 03/02/2023 | 10:05 |
| Calibration Check | SLB0374-CCV1 | NT1423022856.D | 03/02/2023 | 10:41 |

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230228.b/NT1423022801.D/NT1423022801.D  
Method Used: \20230228.b\DFTPP8270E.m Inst: nt14  
Injection Date: 28-FEB-2023 11:26 Operator: JGR  
Sample Info: SLB0374-TUN1 SLB0374-TUN1  
Report Date: 03/10/2023 13:22



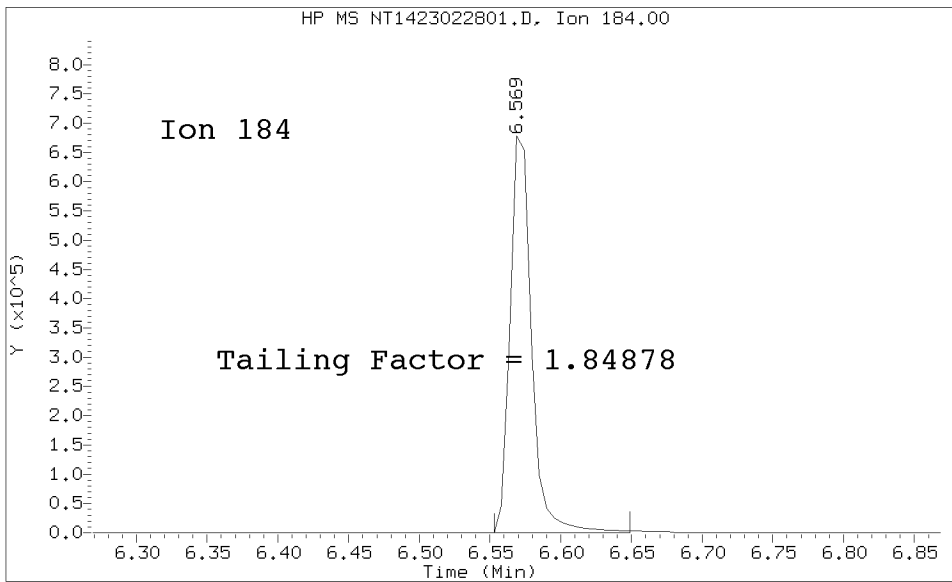
Datafile Analyzed: /20230228.b/NT1423022801.D/NT1423022801.D  
Method Used: \20230228.b\DFTPP8270E.m\sw846ddt.m Inst: nt14  
Injection Date: 28-FEB-2023 11:26 Operator: JGR  
Sample Info: SLB0374-TUN1  
Report Date: 03/10/2023 13:22



Pentachlorophenol

=====  
Exp. RT = 5.114  
Found RT = 5.119

Tail Factor = 1.599 Maximum Allowed = 2.0



Benzidine

=====  
Exp. RT = 6.569  
Found RT = 6.569

Tail Factor = 1.849 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

| Compound          | Tail Factor | Max Allowed | Test |
|-------------------|-------------|-------------|------|
| Pentachlorophenol | 1.5985490   | 2.000       | PASS |
| Benzidine         | 1.8487805   | 2.000       | PASS |

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

| Compound      | Response | %Breakdown | Max Allowed | Test |
|---------------|----------|------------|-------------|------|
| 4,4-DDT       | 329453   |            |             | N/A  |
| 4,4-DDE       | 0        | 0.0        | 20.0        | PASS |
| 4,4-DDD       | 27266    | 7.6        | 20.0        | PASS |
| 4,4-DDD + DDE | 27266    | 7.6        | 20.0        | PASS |

Tuning Sample, nt14.i/20230228.b/NT1423022801.D, \*\*\* PASSED \*\*\*

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00               |
| 68  | Less than 2.00% of mass 69         | 0.00 ( 0.00)         |
| 69  | Mass 69 relative abundance         | 36.45                |
| 70  | Less than 2.00% of mass 69         | 0.00 ( 0.00)         |
| 197 | Less than 2.00% of mass 198        | 0.00                 |
| 199 | 5.00 - 9.00% of mass 198           | 6.68                 |
| 365 | 1.00 - 100.00% of mass 198         | 3.19                 |
| 441 | Less than 150.00% of mass 443      | 8.05 ( 72.75)        |
| 442 | Less than 200.00% of mass 198      | 55.70                |
| 443 | 15.00 - 24.00% of mass 442         | 11.06 ( 19.86)       |

Data File: NT1423022801.D

Spectrum: Avg. Scans 458-460 ( 5.54), Background Scan 454

Location of Maximum: 198.00

Number of points: 81

| m/z    | Y     | m/z    | Y     | m/z    | Y      | m/z    | Y     |
|--------|-------|--------|-------|--------|--------|--------|-------|
| 39.00  | 1657  | 111.00 | 5181  | 187.00 | 6163   | 256.00 | 13097 |
| 50.00  | 8048  | 117.00 | 15552 | 192.00 | 670    | 258.00 | 5162  |
| 51.00  | 29792 | 123.00 | 734   | 193.00 | 1610   | 265.00 | 1693  |
| 57.00  | 2542  | 127.00 | 65592 | 196.00 | 4837   | 273.00 | 2065  |
| 63.00  | 796   | 128.00 | 5072  | 198.00 | 154496 | 274.00 | 7299  |
| 69.00  | 56320 | 129.00 | 25912 | 199.00 | 10325  | 275.00 | 41256 |
| 74.00  | 5861  | 130.00 | 1691  | 204.00 | 5619   | 276.00 | 5638  |
| 75.00  | 8903  | 135.00 | 1686  | 205.00 | 9289   | 277.00 | 3469  |
| 76.00  | 3254  | 141.00 | 3424  | 206.00 | 40192  | 296.00 | 10926 |
| 77.00  | 61744 | 147.00 | 749   | 207.00 | 7142   | 323.00 | 2830  |
| 78.00  | 4358  | 148.00 | 4047  | 217.00 | 10352  | 334.00 | 1934  |
| 79.00  | 4457  | 155.00 | 768   | 221.00 | 8641   | 365.00 | 4928  |
| 80.00  | 3215  | 156.00 | 2880  | 223.00 | 1846   | 372.00 | 799   |
| 81.00  | 4594  | 167.00 | 7552  | 224.00 | 22544  | 423.00 | 5393  |
| 93.00  | 7180  | 168.00 | 3743  | 225.00 | 5687   | 441.00 | 12432 |
| 98.00  | 5732  | 175.00 | 2206  | 227.00 | 9264   | 442.00 | 86056 |
| 99.00  | 4413  | 179.00 | 5289  | 229.00 | 1539   | 443.00 | 17088 |
| 101.00 | 1800  | 180.00 | 3808  | 244.00 | 17592  | 444.00 | 724   |
| 107.00 | 19032 | 181.00 | 1392  | 245.00 | 1845   |        |       |
| 108.00 | 2825  | 185.00 | 2091  | 246.00 | 3444   |        |       |
| 110.00 | 35440 | 186.00 | 21032 | 255.00 | 87912  |        |       |





**MASS SPECTROMETER  
INSTRUMENT PERFORMANCE CHECK  
EPA 8270E**

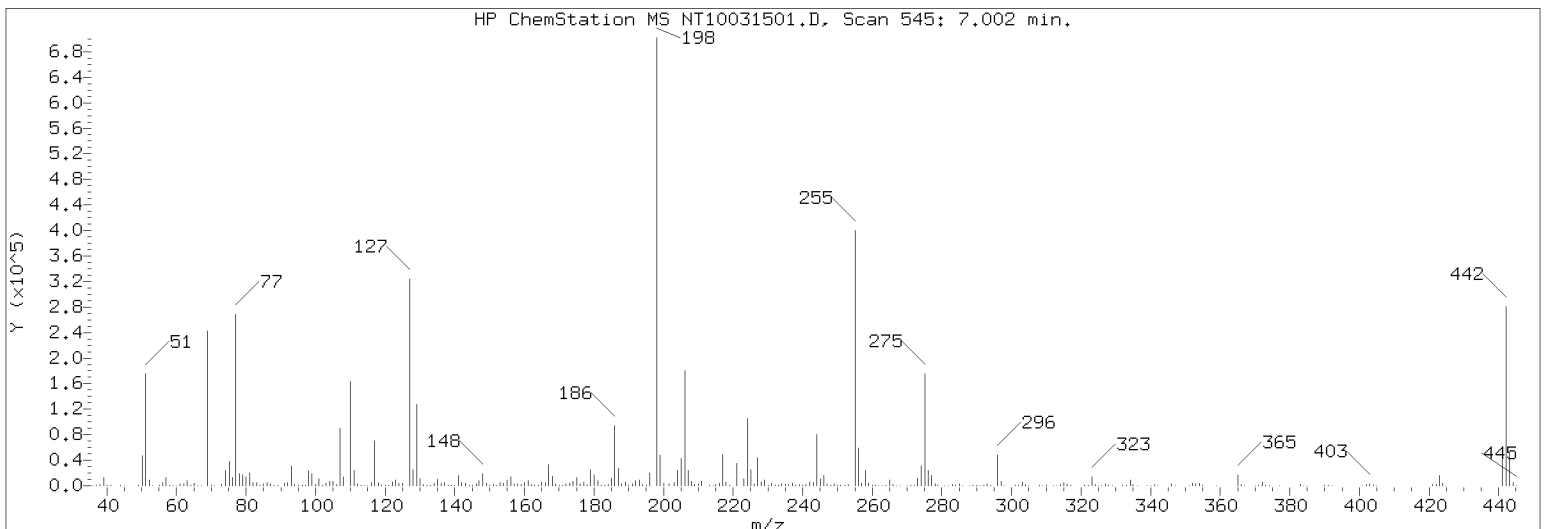
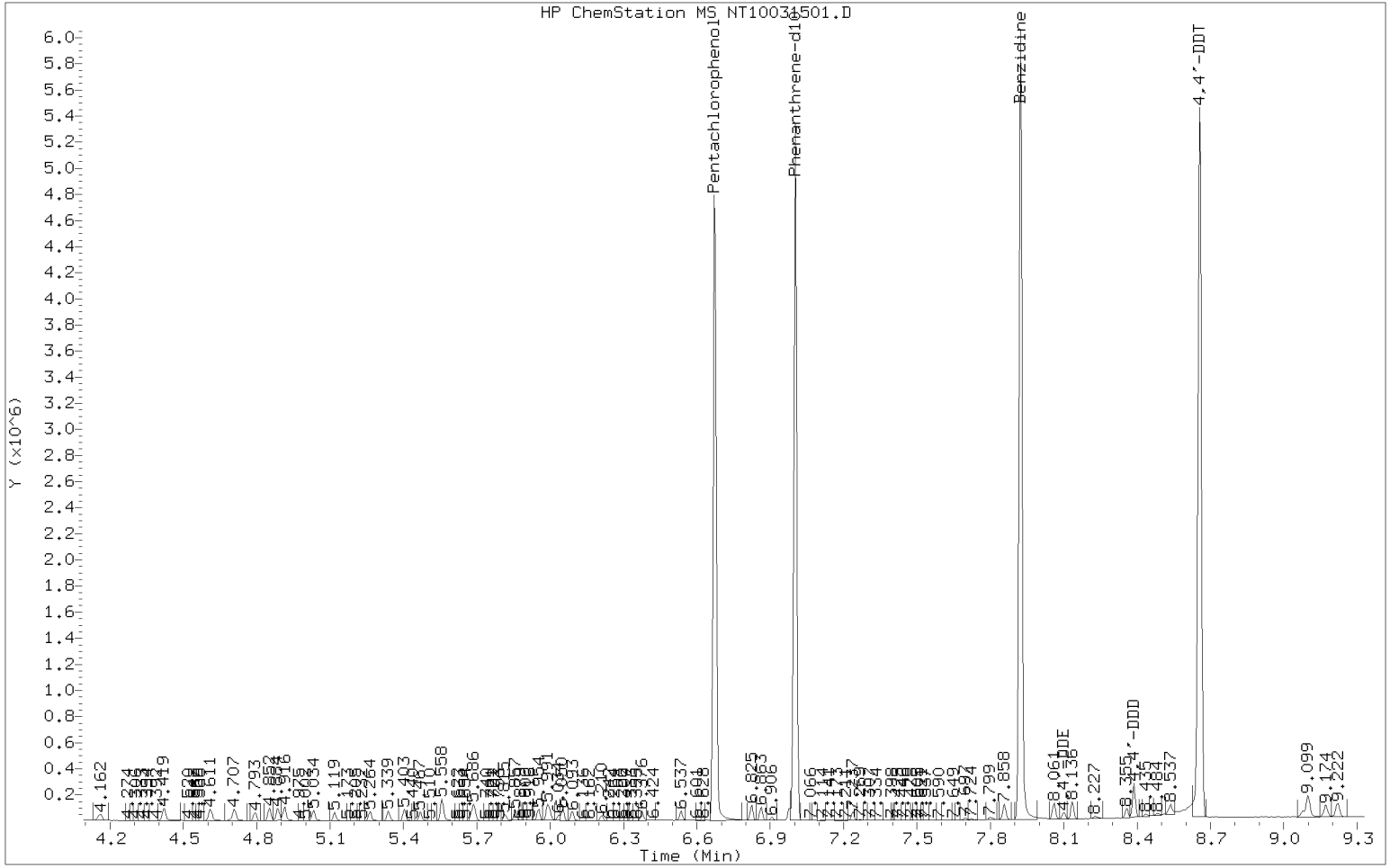
|                |                                  |                 |                        |
|----------------|----------------------------------|-----------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:            | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:        | <u>AOC5 MR Phase 1</u> |
| Lab File ID:   | <u>NT10031501.D</u>              | Injection Date: | <u>03/15/23</u>        |
| Instrument ID: | <u>NT10</u>                      | Injection Time: | <u>20:19</u>           |
| Sequence:      | <u>SLC0228</u>                   | Lab Sample ID:  | <u>SLC0228-TUN1</u>    |

| m/z      | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |      |
|----------|------------------------------------|----------------------|------|
| 68       | Less than 2% of 69                 | 0.372                | PASS |
| 69       | Less than 100% of 198              | 36.5                 | PASS |
| 70       | Less than 2% of 69                 | 0.498                | PASS |
| 197      | Less than 2% of 198                | 0                    | PASS |
| 198      | Base peak, 100% relative abundance | 100                  | PASS |
| 199      | 5 - 9% of 198                      | 6.88                 | PASS |
| 365      | 1 - 100% of 198                    | 2.52                 | PASS |
| 441      | Less than 150% of 443              | 77.1                 | PASS |
| 442      | 1 - 200% of 198                    | 42.8                 | PASS |
| 443      | 15 - 24% of 442                    | 18.5                 | PASS |
| 4,4'-DDD | Less than 20% of 4,4'-DDT          |                      |      |
| 4,4'-DDE | Less than 20% of 4,4'-DDT          |                      |      |
| 4,4'-DDT | Less than 200% of                  |                      |      |

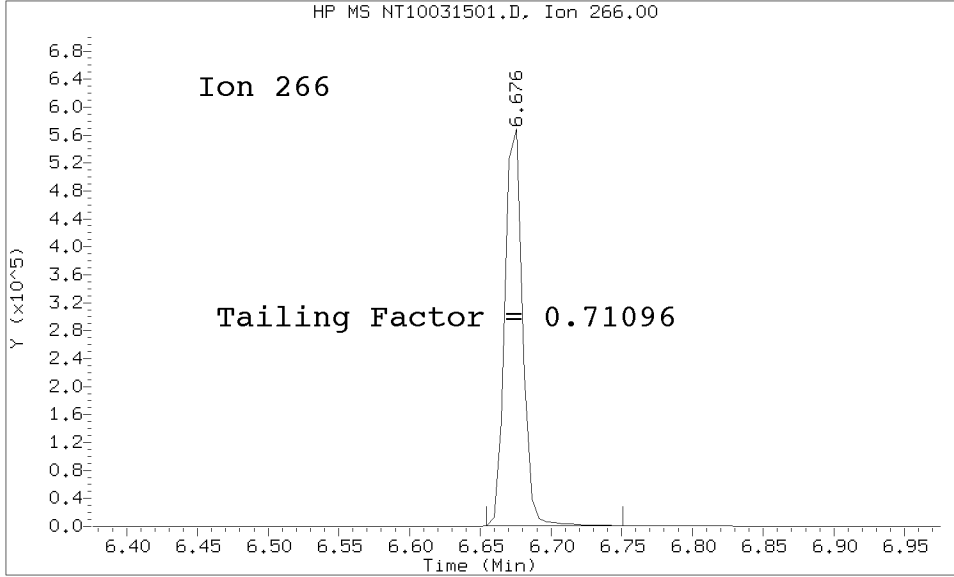
| Client Sample ID    | Lab Sample ID | Lab File ID  | Date Analyzed | Time Analyzed |
|---------------------|---------------|--------------|---------------|---------------|
| MS Tune             | SLC0228-TUN1  | NT10031501.D | 03/15/2023    | 20:19         |
| Cal Standard        | SLC0228-CAL7  | NT10031502.D | 03/15/2023    | 20:34         |
| Cal Standard        | SLC0228-CAL6  | NT10031503.D | 03/15/2023    | 21:12         |
| Cal Standard        | SLC0228-CAL5  | NT10031504.D | 03/15/2023    | 21:50         |
| Cal Standard        | SLC0228-CAL4  | NT10031505.D | 03/15/2023    | 22:28         |
| Cal Standard        | SLC0228-CAL3  | NT10031506.D | 03/15/2023    | 23:06         |
| Cal Standard        | SLC0228-CAL2  | NT10031507.D | 03/15/2023    | 23:44         |
| Cal Standard        | SLC0228-CAL1  | NT10031508.D | 03/16/2023    | 0:22          |
| Secondary Cal Check | SLC0228-SCV1  | NT10031511.D | 03/16/2023    | 2:16          |
| Initial Cal Blank   | SLC0228-ICB1  | NT10031512.D | 03/16/2023    | 2:54          |

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230315.b/NT10031501.D/NT10031501.D  
 Method Used: \20230315.b\DFTPP8270E.m Inst: nt10  
 Injection Date: 15-MAR-2023 20:19 Operator: JGR  
 Sample Info: SLC0228-TUN1 SLC0228-TUN1  
 Report Date: 03/16/2023 12:23



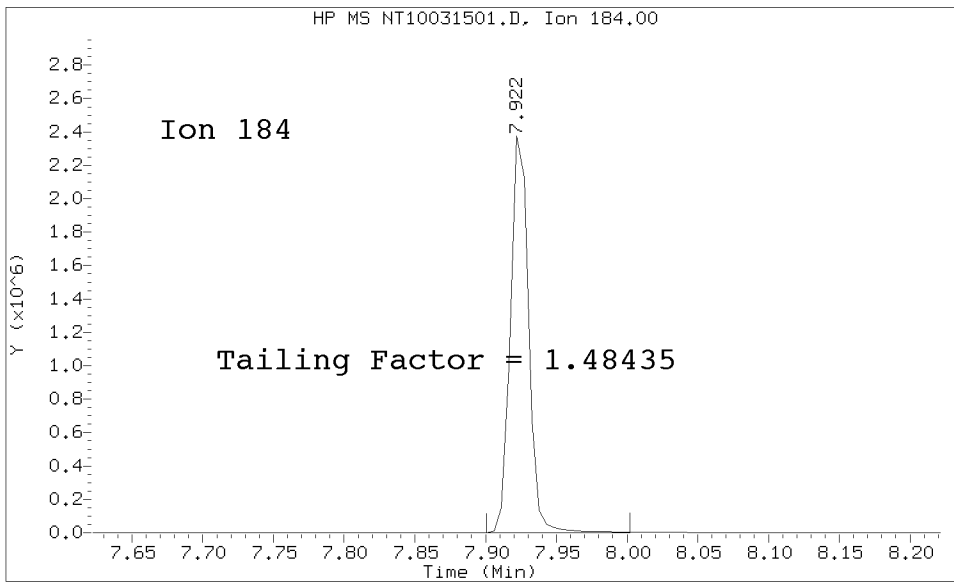
Datafile Analyzed: /20230315.b/NT10031501.D/NT10031501.D  
Method Used: \20230315.b\DFTPP8270E.m\sw846ddt.m Inst: nt10  
Injection Date: 15-MAR-2023 20:19 Operator: JGR  
Sample Info: SEQ-TUN1  
Report Date: 03/16/2023 12:23



Pentachlorophenol

=====  
Exp. RT = 6.676  
Found RT = 6.676

Tail Factor = 0.711 Maximum Allowed = 2.0



Benzidine

=====  
Exp. RT = 7.922  
Found RT = 7.922

Tail Factor = 1.484 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

| Compound          | Tail Factor | Max Allowed | Test |
|-------------------|-------------|-------------|------|
| Pentachlorophenol | 0.7109557   | 2.000       | PASS |
| Benzidine         | 1.4843493   | 2.000       | PASS |

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

| Compound      | Response | %Breakdown | Max Allowed | Test |
|---------------|----------|------------|-------------|------|
| 4,4-DDT       | 962640   |            |             | N/A  |
| 4,4-DDE       | 5158     | 0.5        | 20.0        | PASS |
| 4,4-DDD       | 41277    | 4.1        | 20.0        | PASS |
| 4,4-DDD + DDE | 46435    | 4.6        | 20.0        | PASS |

Tuning Sample, nt10.i/20230315.b/NT10031501.D, \*\*\* PASSED \*\*\*

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00               |
| 68  | Less than 2.00% of mass 69         | 0.14 ( 0.37)         |
| 69  | Mass 69 relative abundance         | 36.50                |
| 70  | Less than 2.00% of mass 69         | 0.18 ( 0.50)         |
| 197 | Less than 2.00% of mass 198        | 0.00                 |
| 199 | 5.00 - 9.00% of mass 198           | 6.88                 |
| 365 | 1.00 - 100.00% of mass 198         | 2.52                 |
| 441 | Less than 150.00% of mass 443      | 6.11 ( 77.09)        |
| 442 | Less than 200.00% of mass 198      | 42.80                |
| 443 | 15.00 - 24.00% of mass 442         | 7.92 ( 18.52)        |

Data File: NT10031501.D  
 Spectrum: Avg. Scans 544-546 ( 7.00), Background Scan 536  
 Location of Maximum: 198.00  
 Number of points: 316

| m/z   | Y      | m/z    | Y      | m/z    | Y      | m/z    | Y     |
|-------|--------|--------|--------|--------|--------|--------|-------|
| 36.00 | 226    | 124.00 | 3185   | 207.00 | 17112  | 293.00 | 2318  |
| 37.00 | 575    | 125.00 | 2909   | 208.00 | 4722   | 294.00 | 588   |
| 38.00 | 1820   | 127.00 | 243264 | 209.00 | 1586   | 295.00 | 171   |
| 39.00 | 10159  | 128.00 | 18696  | 210.00 | 2002   | 296.00 | 36168 |
| 40.00 | 405    | 129.00 | 96304  | 211.00 | 5093   | 297.00 | 5056  |
| 41.00 | 312    | 130.00 | 8257   | 213.00 | 371    | 298.00 | 351   |
| 42.00 | 59     | 131.00 | 1626   | 214.00 | 74     | 301.00 | 422   |
| 45.00 | 283    | 132.00 | 820    | 215.00 | 1549   | 302.00 | 552   |
| 49.00 | 910    | 133.00 | 415    | 216.00 | 2822   | 303.00 | 4130  |
| 50.00 | 35800  | 134.00 | 2800   | 217.00 | 36520  | 304.00 | 1107  |
| 51.00 | 136000 | 135.00 | 7704   | 218.00 | 4515   | 305.00 | 126   |
| 52.00 | 7201   | 136.00 | 3195   | 219.00 | 360    | 308.00 | 532   |
| 53.00 | 294    | 137.00 | 3970   | 221.00 | 25672  | 309.00 | 330   |
| 55.00 | 668    | 138.00 | 948    | 222.00 | 2863   | 310.00 | 461   |
| 56.00 | 4206   | 139.00 | 563    | 223.00 | 8094   | 312.00 | 63    |
| 57.00 | 9877   | 140.00 | 1193   | 224.00 | 76160  | 313.00 | 360   |
| 58.00 | 478    | 141.00 | 12476  | 225.00 | 18680  | 314.00 | 1762  |
| 59.00 | 106    | 142.00 | 3876   | 226.00 | 2197   | 315.00 | 4011  |
| 60.00 | 125    | 143.00 | 2757   | 227.00 | 32752  | 316.00 | 2200  |
| 61.00 | 1897   | 144.00 | 726    | 228.00 | 4949   | 317.00 | 416   |
| 62.00 | 2103   | 145.00 | 710    | 229.00 | 6725   | 321.00 | 1068  |
| 63.00 | 6654   | 146.00 | 2200   | 230.00 | 933    | 322.00 | 491   |
| 64.00 | 895    | 147.00 | 6157   | 231.00 | 2854   | 323.00 | 10541 |
| 65.00 | 3279   | 148.00 | 13642  | 232.00 | 574    | 324.00 | 1817  |
| 66.00 | 188    | 149.00 | 2992   | 233.00 | 660    | 325.00 | 178   |
| 67.00 | 249    | 150.00 | 753    | 234.00 | 2022   | 326.00 | 218   |
| 68.00 | 704    | 151.00 | 1678   | 235.00 | 2475   | 327.00 | 2103  |
| 69.00 | 189184 | 152.00 | 893    | 236.00 | 1621   | 328.00 | 1092  |
| 70.00 | 943    | 153.00 | 4091   | 237.00 | 2803   | 329.00 | 211   |
| 71.00 | 156    | 154.00 | 3154   | 238.00 | 375    | 332.00 | 739   |
| 73.00 | 1307   | 155.00 | 6743   | 239.00 | 1387   | 333.00 | 975   |
| 74.00 | 18768  | 156.00 | 10344  | 240.00 | 943    | 334.00 | 6536  |
| 75.00 | 30000  | 157.00 | 2091   | 241.00 | 1718   | 335.00 | 1733  |
| 76.00 | 10364  | 158.00 | 2204   | 242.00 | 4096   | 336.00 | 201   |
| 77.00 | 207552 | 159.00 | 1689   | 243.00 | 3931   | 339.00 | 148   |
| 78.00 | 14246  | 160.00 | 3864   | 244.00 | 58560  | 340.00 | 135   |
| 79.00 | 13356  | 161.00 | 5891   | 245.00 | 7760   | 341.00 | 1142  |
| 80.00 | 10539  | 162.00 | 1637   | 246.00 | 11941  | 342.00 | 277   |
| 81.00 | 15173  | 163.00 | 475    | 247.00 | 2526   | 346.00 | 2192  |
| 82.00 | 3906   | 164.00 | 608    | 248.00 | 602    | 347.00 | 346   |
| 83.00 | 3545   | 165.00 | 4507   | 249.00 | 2169   | 351.00 | 182   |
| 84.00 | 178    | 166.00 | 3807   | 250.00 | 370    | 352.00 | 3059  |
| 85.00 | 2559   | 167.00 | 24880  | 251.00 | 462    | 353.00 | 1950  |
| 86.00 | 4226   | 168.00 | 11639  | 252.00 | 590    | 354.00 | 3010  |
| 87.00 | 1998   | 169.00 | 2046   | 253.00 | 1331   | 355.00 | 569   |
| 88.00 | 783    | 170.00 | 776    | 255.00 | 296384 | 359.00 | 242   |
| 89.00 | 418    | 171.00 | 1036   | 256.00 | 43272  | 365.00 | 13085 |
| 91.00 | 3237   | 172.00 | 2248   | 257.00 | 3394   | 366.00 | 1813  |
| 92.00 | 3764   | 173.00 | 2906   | 258.00 | 18176  | 367.00 | 150   |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 93.00  | 24104  | 174.00 | 5113   | 259.00 | 2926   | 370.00 | 291    |
| 94.00  | 1672   | 175.00 | 9851   | 260.00 | 520    | 371.00 | 690    |
| 95.00  | 503    | 176.00 | 2588   | 261.00 | 479    | 372.00 | 4605   |
| 96.00  | 1130   | 177.00 | 4756   | 262.00 | 60     | 373.00 | 1002   |
| 97.00  | 380    | 178.00 | 1657   | 263.00 | 151    | 374.00 | 50     |
| 98.00  | 17936  | 179.00 | 18424  | 264.00 | 377    | 377.00 | 67     |
| 99.00  | 14658  | 180.00 | 12975  | 265.00 | 6992   | 383.00 | 1157   |
| 100.00 | 1303   | 181.00 | 6000   | 266.00 | 984    | 384.00 | 328    |
| 101.00 | 8724   | 182.00 | 963    | 267.00 | 105    | 385.00 | 50     |
| 102.00 | 480    | 183.00 | 493    | 268.00 | 248    | 390.00 | 595    |
| 103.00 | 2859   | 184.00 | 1456   | 270.00 | 285    | 391.00 | 401    |
| 104.00 | 5461   | 185.00 | 9317   | 271.00 | 631    | 392.00 | 204    |
| 105.00 | 5056   | 186.00 | 70384  | 272.00 | 750    | 401.00 | 211    |
| 106.00 | 1781   | 187.00 | 20112  | 273.00 | 8749   | 402.00 | 1564   |
| 107.00 | 67936  | 188.00 | 2185   | 274.00 | 23296  | 403.00 | 2292   |
| 108.00 | 10471  | 189.00 | 4453   | 275.00 | 129008 | 404.00 | 796    |
| 109.00 | 595    | 190.00 | 772    | 276.00 | 17320  | 405.00 | 237    |
| 110.00 | 122760 | 191.00 | 2090   | 277.00 | 11470  | 421.00 | 1827   |
| 111.00 | 18400  | 192.00 | 5915   | 278.00 | 2005   | 422.00 | 1658   |
| 112.00 | 2357   | 193.00 | 6863   | 279.00 | 468    | 423.00 | 12304  |
| 113.00 | 756    | 194.00 | 1470   | 281.00 | 147    | 424.00 | 2795   |
| 114.00 | 128    | 195.00 | 841    | 282.00 | 368    | 425.00 | 263    |
| 115.00 | 298    | 196.00 | 14341  | 283.00 | 1453   | 441.00 | 31664  |
| 116.00 | 3871   | 198.00 | 518272 | 284.00 | 874    | 442.00 | 221824 |
| 117.00 | 54088  | 199.00 | 35680  | 285.00 | 2012   | 443.00 | 41072  |
| 118.00 | 3919   | 200.00 | 2830   | 286.00 | 333    | 444.00 | 3778   |
| 119.00 | 531    | 201.00 | 2302   | 288.00 | 146    | 445.00 | 177    |
| 120.00 | 920    | 203.00 | 3657   | 289.00 | 446    |        |        |
| 121.00 | 362    | 204.00 | 18200  | 290.00 | 444    |        |        |
| 122.00 | 4396   | 205.00 | 31664  | 291.00 | 199    |        |        |
| 123.00 | 6778   | 206.00 | 132736 | 292.00 | 486    |        |        |



**INITIAL CALIBRATION DATA**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Instrument: NT14

Calibration Date: 02/28/2023

Column (1): ZB-5MS

Calibration Comments: 625.1/8270E ICAL

| Compound                     | Level 01 |              | Level 02 |              | Level 03 |              | Level 04 |           | Level 05 |           | Level 06 |           |
|------------------------------|----------|--------------|----------|--------------|----------|--------------|----------|-----------|----------|-----------|----------|-----------|
|                              | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF       | Conc     | RRF       | Conc     | RRF       |
| Phenol                       | 0.2      | 1.712768     | 0.5      | 1.731331     | 1        | 1.941622     | 2.5      | 1.987296  | 5        | 1.973342  | 10       | 1.873195  |
| bis(2-chloroethyl) ether     | 0.2      | 3.079183     | 0.5      | 1.348716     | 1        | 1.456029     | 2.5      | 1.256664  | 5        | 1.229827  | 10       | 1.210863  |
| 2-Chlorophenol               | 0.2      | 1.108365     | 0.5      | 1.329142     | 1        | 1.444217     | 2.5      | 1.432367  | 5        | 1.417362  | 10       | 1.412931  |
| 1,3-Dichlorobenzene          | 0.2      | 1.57187      | 0.5      | 1.559851     | 1        | 1.574696     | 2.5      | 1.493157  | 5        | 1.467118  | 10       | 1.426333  |
| 1,4-Dichlorobenzene          | 0.2      | 1.453135     | 0.5      | 1.541227     | 1        | 1.4873       | 2.5      | 1.428466  | 5        | 1.530187  | 10       | 1.479028  |
| 1,2-Dichlorobenzene          | 0.2      | 1.459292     | 0.5      | 1.485102     | 1        | 1.512529     | 2.5      | 1.419847  | 5        | 1.397494  | 10       | 1.353375  |
| Benzyl Alcohol               | 0.2      | 0.2288499    | 0.5      | 0.4928379    | 1        | 0.5608699    | 2.5      | 0.7185784 | 5        | 0.8116134 | 10       | 0.8402451 |
| 2,2'-Oxybis(1-chloropropane) | 0.2      | 0.3760807    | 0.5      | 0.3857185    | 1        | 0.4031818    | 2.5      | 0.3805278 | 5        | 0.3790365 | 10       | 0.3772456 |
| 2-Methylphenol               | 0.2      | 0.8234021    | 0.5      | 1.08513      | 1        | 1.235627     | 2.5      | 1.246448  | 5        | 1.237208  | 10       | 1.326477  |
| Hexachloroethane             | 0.2      | 0.5117019    | 0.5      | 0.5437053    | 1        | 0.5658542    | 2.5      | 0.5685802 | 5        | 0.5673899 | 10       | 0.5690638 |
| N-Nitroso-di-n-Propylamine   | 0.2      | 0.6872532    | 0.5      | 0.8122956    | 1        | 0.9393691    | 2.5      | 0.9436959 | 5        | 0.9564936 | 10       | 0.9375951 |
| 4-Methylphenol               | 0.2      | 0.5590199    | 0.5      | 0.9905534    | 1        | 1.23276      | 2.5      | 1.292867  | 5        | 1.313066  | 10       | 1.310361  |
| Nitrobenzene                 | 0.2      | 0.2878535    | 0.5      | 0.3672263    | 1        | 0.3964913    | 2.5      | 0.4032943 | 5        | 0.4097031 | 10       | 0.396267  |
| Isophorone                   | 0.2      | 0.3348052    | 0.5      | 0.4290028    | 1        | 0.49565      | 2.5      | 0.5397074 | 5        | 0.5706055 | 10       | 0.5776544 |
| 2-Nitrophenol                | 0.2      | 5.489346E-02 | 0.5      | 8.435186E-02 | 1        | 0.1271098    | 2.5      | 0.1648161 | 5        | 0.1947755 | 10       | 0.2017022 |
| 2,4-Dimethylphenol           | 0.4      | 0.288353     | 1        | 0.3568912    | 2        | 0.3695015    | 5        | 0.3688258 | 10       | 0.3609294 | 20       | 0.3461025 |
| Bis(2-Chloroethoxy)methane   | 0.2      | 0.3122284    | 0.5      | 0.4018441    | 1        | 0.4207979    | 2.5      | 0.4038351 | 5        | 0.3825721 | 10       | 0.3743354 |
| 2,4-Dichlorophenol           | 0.4      | 0.1792404    | 1        | 0.2682256    | 2        | 0.3281104    | 5        | 0.3401544 | 10       | 0.3377157 | 20       | 0.3148455 |
| 1,2,4-Trichlorobenzene       | 0.2      | 0.4018361    | 0.5      | 0.4098605    | 1        | 0.4140445    | 2.5      | 0.3911199 | 5        | 0.3851484 | 10       | 0.3674945 |
| Naphthalene                  | 0.2      | 1.119697     | 0.5      | 1.124452     | 1        | 1.110394     | 2.5      | 1.077682  | 5        | 1.054807  | 10       | 1.022797  |
| Benzoic acid                 | 0.8      |              | 2        |              | 4        | 3.673253E-02 | 10       | 0.1005532 | 20       | 0.1445263 | 40       | 0.1681361 |
| 4-Chloroaniline              |          |              | 1        | 0.4165469    | 2        | 0.4689615    | 5        | 0.4756123 | 10       | 0.4763314 | 20       | 0.4639102 |
| Hexachlorobutadiene          | 0.2      | 0.2274657    | 0.5      | 0.2358185    | 1        | 0.2370683    | 2.5      | 0.2304291 | 5        | 0.2594932 | 10       | 0.2264162 |
| 4-Chloro-3-Methylphenol      |          |              | 1        | 0.2597778    | 2        | 0.3133791    | 5        | 0.3214646 | 10       | 0.3319357 | 20       | 0.326473  |
| 2-Methylnaphthalene          | 0.2      | 0.7431346    | 0.5      | 0.8130347    | 1        | 0.8169639    | 2.5      | 0.8120915 | 5        | 0.8147841 | 10       | 0.7971684 |
| Hexachlorocyclopentadiene    | 0.4      | 0.1544995    | 1        | 0.2623772    | 2        | 0.3250484    | 5        | 0.3856932 | 10       | 0.4139764 | 20       | 0.4356396 |
| 2,4,6-Trichlorophenol        |          |              | 1        | 0.3150882    | 2        | 0.37111      | 5        | 0.3983879 | 10       | 0.4168866 | 20       | 0.4227493 |





**INITIAL CALIBRATION DATA**  
**EPA 8270E**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GC00033                   | Instrument: | NT14            |
| Calibration Date: | 02/28/2023                | Column (1): | ZB-5MS          |

Calibration Comments: 625.1/8270E ICAL

| Compound                   | Level 01 |              | Level 02 |              | Level 03 |              | Level 04 |              | Level 05 |           | Level 06 |           |
|----------------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|-----------|----------|-----------|
|                            | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF       | Conc     | RRF       |
| 2,4,5-Trichlorophenol      |          |              | 1        | 0.3216641    | 2        | 0.3876535    | 5        | 0.4450743    | 10       | 0.4570205 | 20       | 0.4661115 |
| 2-Chloronaphthalene        | 0.2      | 1.207377     | 0.5      | 1.264797     | 1        | 1.293992     | 2.5      | 1.277444     | 5        | 1.249269  | 10       | 1.243539  |
| 2-Nitroaniline             |          |              | 1        | 0.265106     | 2        | 0.3174904    | 5        | 0.3425215    | 10       | 0.3510378 | 20       | 0.3448329 |
| Acenaphthylene             | 0.2      | 1.626642     | 0.5      | 1.891066     | 1        | 1.995828     | 2.5      | 1.954387     | 5        | 1.86926   | 10       | 1.792876  |
| Dimethylphthalate          | 0.2      | 1.007971     | 0.5      | 1.278097     | 1        | 1.352742     | 2.5      | 1.357678     | 5        | 1.325143  | 10       | 1.272343  |
| 2,6-Dinitrotoluene         |          |              | 1        | 0.268625     | 2        | 0.300598     | 5        | 0.3101517    | 10       | 0.3066189 | 20       | 0.2981374 |
| Acenaphthene               | 0.2      | 1.204263     | 0.5      | 1.203362     | 1        | 1.21378      | 2.5      | 1.18973      | 5        | 1.150139  | 10       | 1.142859  |
| 3-Nitroaniline             |          |              | 1        | 0.2440812    | 2        | 0.2855296    | 5        | 0.3133955    | 10       | 0.3231622 | 20       | 0.3277799 |
| 2,4-Dinitrophenol          | 0.8      |              | 2        | 2.473766E-02 | 4        | 7.423548E-02 | 10       | 0.128182     | 20       | 0.1799291 | 40       | 0.2170989 |
| Dibenzofuran               | 0.2      | 1.804079     | 0.5      | 1.927271     | 1        | 1.971878     | 2.5      | 1.90866      | 5        | 1.855843  | 10       | 1.825071  |
| 4-Nitrophenol              | 0.4      |              | 1        | 7.534622E-02 | 2        | 0.1151699    | 5        | 0.116158     | 10       | 0.1519276 | 20       | 0.1635488 |
| 2,4-Dinitrotoluene         |          |              | 1        | 0.363982     | 2        | 0.4135869    | 5        | 0.4449894    | 10       | 0.4391244 | 20       | 0.4443389 |
| Fluorene                   | 0.2      | 1.557284     | 0.5      | 1.654098     | 1        | 1.691035     | 2.5      | 1.642875     | 5        | 1.551269  | 10       | 1.515318  |
| 4-Chlorophenylphenyl ether | 0.2      | 0.905196     | 0.5      | 0.8803266    | 1        | 0.8812613    | 2.5      | 0.8474044    | 5        | 0.8177953 | 10       | 0.7987249 |
| Diethyl phthalate          | 0.2      | 0.9088996    | 0.5      | 1.173451     | 1        | 1.262887     | 2.5      | 1.257746     | 5        | 1.24571   | 10       | 1.217703  |
| 4-Nitroaniline             |          |              | 1        | 0.221282     | 2        | 0.2794626    | 5        | 0.3157909    | 10       | 0.3206992 | 20       | 0.3288736 |
| 4,6-Dinitro-2-methylphenol | 0.8      | 1.189339E-02 | 2        | 6.068486E-02 | 4        | 7.942052E-02 | 10       | 0.1186526    | 20       | 0.1347691 | 40       | 0.1381154 |
| N-Nitrosodiphenylamine     | 0.2      | 0.4454538    | 0.5      | 0.5289334    | 1        | 0.5450198    | 2.5      | 0.5189517    | 5        | 0.5160036 | 10       | 0.4929994 |
| 4-Bromophenyl phenyl ether | 0.2      | 0.1934343    | 0.5      | 0.2163034    | 1        | 0.2236494    | 2.5      | 0.2268074    | 5        | 0.2320823 | 10       | 0.2275556 |
| Hexachlorobenzene          | 0.2      | 0.2415241    | 0.5      | 0.2456314    | 1        | 0.2557792    | 2.5      | 0.243163     | 5        | 0.2479347 | 10       | 0.237284  |
| Pentachlorophenol          | 0.4      |              | 1        | 2.673132E-02 | 2        | 5.625738E-02 | 5        | 8.443774E-02 | 10       | 0.1172885 | 20       | 0.1307331 |
| Phenanthrene               | 0.2      | 1.091353     | 0.5      | 1.114267     | 1        | 1.114058     | 2.5      | 1.078982     | 5        | 1.065876  | 10       | 1.008541  |
| Anthracene                 | 0.2      | 0.818472     | 0.5      | 0.9901716    | 1        | 1.054585     | 2.5      | 1.064528     | 5        | 1.075772  | 10       | 1.036147  |
| Carbazole                  | 0.2      | 0.7587254    | 0.5      | 0.8992655    | 1        | 0.9201739    | 2.5      | 0.8652348    | 5        | 0.9099053 | 10       | 0.9132403 |
| Di-n-Butylphthalate        | 0.2      | 0.5159109    | 0.5      | 0.7941874    | 1        | 0.9528767    | 2.5      | 1.072193     | 5        | 1.128907  | 10       | 1.103841  |
| Fluoranthene               | 0.2      | 1.308457     | 0.5      | 1.496112     | 1        | 1.580434     | 2.5      | 1.577303     | 5        | 1.594961  | 10       | 1.552949  |
| Pyrene                     | 0.2      | 1.434167     | 0.5      | 1.606007     | 1        | 1.672882     | 2.5      | 1.636447     | 5        | 1.739311  | 10       | 1.58694   |



## INITIAL CALIBRATION DATA EPA 8270E

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GC00033                   | Instrument: | NT14            |
| Calibration Date: | 02/28/2023                | Column (1): | ZB-5MS          |

Calibration Comments: 625.1/8270E ICAL

| Compound                    | Level 01 |              | Level 02 |           | Level 03 |           | Level 04 |           | Level 05 |           | Level 06 |           |
|-----------------------------|----------|--------------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|
|                             | Conc     | RRF          | Conc     | RRF       | Conc     | RRF       | Conc     | RRF       | Conc     | RRF       | Conc     | RRF       |
| Butylbenzylphthalate        | 0.2      | 0.2086269    | 0.5      | 0.3691322 | 1        | 0.4614545 | 2.5      | 0.5232703 | 5        | 0.5552111 | 10       | 0.5511547 |
| Benzo(a)anthracene          | 0.2      | 1.259012     | 0.5      | 1.429612  | 1        | 1.447772  | 2.5      | 1.424247  | 5        | 1.420695  | 10       | 1.325256  |
| 3,3'-Dichlorobenzidine      |          |              | 1.5      | 0.3984538 | 3        | 0.3824482 | 7.5      | 0.3505851 | 15       | 0.3898354 | 30       | 0.4156977 |
| Chrysene                    | 0.2      | 1.309438     | 0.5      | 1.340026  | 1        | 1.324666  | 2.5      | 1.313268  | 5        | 1.301057  | 10       | 1.257001  |
| bis(2-Ethylhexyl)phthalate  | 0.2      | 0.2771964    | 0.5      | 0.4163136 | 1        | 0.5178171 | 2.5      | 0.5875976 | 5        | 0.6111004 | 10       | 0.6066788 |
| Di-n-Octylphthalate         | 0.2      | 1.130342     | 0.5      | 1.108771  | 1        | 1.078214  | 2.5      | 1.053578  | 5        | 1.030105  | 10       | 1.003981  |
| Benzo(a)fluoranthene, Total | 0.4      | 1.220533     | 1        | 1.298377  | 2        | 1.336417  | 5        | 1.333074  | 10       | 1.314562  | 20       | 1.314022  |
| Benzo(a)pyrene              | 0.2      | 0.9171189    | 0.5      | 1.071898  | 1        | 1.162281  | 2.5      | 1.198935  | 5        | 1.198768  | 10       | 1.218204  |
| Indeno(1,2,3-cd)pyrene      | 0.2      | 1.255079     | 0.5      | 1.371037  | 1        | 1.458575  | 2.5      | 1.486111  | 5        | 1.493749  | 10       | 1.483497  |
| Dibenzo(a,h)anthracene      | 0.2      | 1.107204     | 0.5      | 1.187921  | 1        | 1.258994  | 2.5      | 1.263724  | 5        | 1.260832  | 10       | 1.236934  |
| Benzo(g,h,i)perylene        | 0.2      | 1.132564     | 0.5      | 1.179862  | 1        | 1.239198  | 2.5      | 1.253183  | 5        | 1.282551  | 10       | 1.310346  |
| 1-Methylnaphthalene         | 0.2      | 0.7079208    | 0.5      | 0.7417499 | 1        | 0.7538395 | 2.5      | 0.7368148 | 5        | 0.7454053 | 10       | 0.7302863 |
| 2-Fluorophenol              | 0.3      | 0.768579     | 0.75     | 1.027907  | 1.5      | 1.080204  | 3.75     | 1.188474  | 7.5      | 1.212878  | 15       | 1.201549  |
| Phenol-d5                   | 0.3      | 1.116046     | 0.75     | 1.437     | 1.5      | 1.649392  | 3.75     | 1.680687  | 7.5      | 1.699604  | 15       | 1.665092  |
| 2-Chlorophenol-d4           | 0.3      | 1.150171     | 0.75     | 1.247593  | 1.5      | 1.315558  | 3.75     | 1.330404  | 7.5      | 1.425007  | 15       | 1.387402  |
| 1,2-Dichlorobenzene-d4      | 0.2      | 1.068435     | 0.5      | 1.02134   | 1        | 1.031408  | 2.5      | 0.9880242 | 5        | 0.9664629 | 10       | 0.9422021 |
| Nitrobenzene-d5             | 0.2      | 0.2861053    | 0.5      | 0.3758358 | 1        | 0.4043639 | 2.5      | 0.4202334 | 5        | 0.4299529 | 10       | 0.4229284 |
| 2-Fluorobiphenyl            | 0.2      | 1.571425     | 0.5      | 1.609126  | 1        | 1.647321  | 2.5      | 1.583435  | 5        | 1.525666  | 10       | 1.496187  |
| 2,4,6-Tribromophenol        | 0.3      | 7.620459E-02 | 0.75     | 0.1425708 | 1.5      | 0.1721177 | 3.75     | 0.202397  | 7.5      | 0.2155528 | 15       | 0.2351124 |
| p-Terphenyl-d14             | 0.2      | 1.20646      | 0.5      | 1.28996   | 1        | 1.320784  | 2.5      | 1.284346  | 5        | 1.250936  | 10       | 1.177706  |



**INITIAL CALIBRATION DATA**  
**EPA 8270E**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GC00033                   | Instrument: | NT14            |
| Calibration Date: | 02/28/2023                | Column (1): | ZB-5MS          |

Calibration Comments: 625.1/8270E ICAL

| Compound                     | Level 07 |           | Level 08 |     | Level 09 |     | Level 10 |     | Level 11 |     | Level 12 |     |
|------------------------------|----------|-----------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
|                              | Conc     | RRF       | Conc     | RRF | Conc     | RRF | Conc     | RRF | Conc     | RRF | Conc     | RRF |
| Phenol                       | 20       | 1.641899  |          |     |          |     |          |     |          |     |          |     |
| bis(2-chloroethyl) ether     | 20       | 1.137504  |          |     |          |     |          |     |          |     |          |     |
| 2-Chlorophenol               | 20       | 1.329202  |          |     |          |     |          |     |          |     |          |     |
| 1,3-Dichlorobenzene          | 20       | 1.34729   |          |     |          |     |          |     |          |     |          |     |
| 1,4-Dichlorobenzene          | 20       | 1.399074  |          |     |          |     |          |     |          |     |          |     |
| 1,2-Dichlorobenzene          | 20       | 1.266506  |          |     |          |     |          |     |          |     |          |     |
| Benzyl Alcohol               | 20       | 0.8549296 |          |     |          |     |          |     |          |     |          |     |
| 2,2'-Oxybis(1-chloropropane) | 20       | 0.3665105 |          |     |          |     |          |     |          |     |          |     |
| 2-Methylphenol               | 20       | 1.170822  |          |     |          |     |          |     |          |     |          |     |
| Hexachloroethane             | 20       | 0.548717  |          |     |          |     |          |     |          |     |          |     |
| N-Nitroso-di-n-Propylamine   | 20       | 0.9097233 |          |     |          |     |          |     |          |     |          |     |
| 4-Methylphenol               | 20       | 1.248508  |          |     |          |     |          |     |          |     |          |     |
| Nitrobenzene                 | 20       | 0.3712075 |          |     |          |     |          |     |          |     |          |     |
| Isophorone                   | 20       | 0.5499657 |          |     |          |     |          |     |          |     |          |     |
| 2-Nitrophenol                | 20       | 0.199669  |          |     |          |     |          |     |          |     |          |     |
| 2,4-Dimethylphenol           | 40       | 0.3088879 |          |     |          |     |          |     |          |     |          |     |
| Bis(2-Chloroethoxy)methane   | 20       | 0.3505514 |          |     |          |     |          |     |          |     |          |     |
| 2,4-Dichlorophenol           | 40       | 0.2940726 |          |     |          |     |          |     |          |     |          |     |
| 1,2,4-Trichlorobenzene       | 20       | 0.3422966 |          |     |          |     |          |     |          |     |          |     |
| Naphthalene                  | 20       | 0.9588774 |          |     |          |     |          |     |          |     |          |     |
| Benzoic acid                 | 80       | 0.2292595 |          |     |          |     |          |     |          |     |          |     |
| 4-Chloroaniline              | 40       | 0.4367766 |          |     |          |     |          |     |          |     |          |     |
| Hexachlorobutadiene          | 20       | 0.2380499 |          |     |          |     |          |     |          |     |          |     |
| 4-Chloro-3-Methylphenol      | 40       | 0.2982592 |          |     |          |     |          |     |          |     |          |     |
| 2-Methylnaphthalene          | 20       | 0.7336603 |          |     |          |     |          |     |          |     |          |     |
| Hexachlorocyclopentadiene    | 40       | 0.433422  |          |     |          |     |          |     |          |     |          |     |
| 2,4,6-Trichlorophenol        | 40       | 0.4201979 |          |     |          |     |          |     |          |     |          |     |



**INITIAL CALIBRATION DATA**  
**EPA 8270E**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GC00033                   | Instrument: | NT14            |
| Calibration Date: | 02/28/2023                | Column (1): | ZB-5MS          |

Calibration Comments: 625.1/8270E ICAL

| Compound                   | Level 07 |           | Level 08 |     | Level 09 |     | Level 10 |     | Level 11 |     | Level 12 |     |
|----------------------------|----------|-----------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
|                            | Conc     | RRF       | Conc     | RRF | Conc     | RRF | Conc     | RRF | Conc     | RRF | Conc     | RRF |
| 2,4,5-Trichlorophenol      | 40       | 0.4572974 |          |     |          |     |          |     |          |     |          |     |
| 2-Chloronaphthalene        | 20       | 1.199775  |          |     |          |     |          |     |          |     |          |     |
| 2-Nitroaniline             | 40       | 0.3319807 |          |     |          |     |          |     |          |     |          |     |
| Acenaphthylene             | 20       | 1.689006  |          |     |          |     |          |     |          |     |          |     |
| Dimethylphthalate          | 20       | 1.213126  |          |     |          |     |          |     |          |     |          |     |
| 2,6-Dinitrotoluene         | 40       | 0.2848579 |          |     |          |     |          |     |          |     |          |     |
| Acenaphthene               | 20       | 1.103319  |          |     |          |     |          |     |          |     |          |     |
| 3-Nitroaniline             | 40       | 0.3191378 |          |     |          |     |          |     |          |     |          |     |
| 2,4-Dinitrophenol          | 80       | 0.2385032 |          |     |          |     |          |     |          |     |          |     |
| Dibenzofuran               | 20       | 1.766545  |          |     |          |     |          |     |          |     |          |     |
| 4-Nitrophenol              | 40       | 0.172103  |          |     |          |     |          |     |          |     |          |     |
| 2,4-Dinitrotoluene         | 40       | 0.4406328 |          |     |          |     |          |     |          |     |          |     |
| Fluorene                   | 20       | 1.391429  |          |     |          |     |          |     |          |     |          |     |
| 4-Chlorophenylphenyl ether | 20       | 0.7238567 |          |     |          |     |          |     |          |     |          |     |
| Diethyl phthalate          | 20       | 1.169412  |          |     |          |     |          |     |          |     |          |     |
| 4-Nitroaniline             | 40       | 0.3311615 |          |     |          |     |          |     |          |     |          |     |
| 4,6-Dinitro-2-methylphenol | 80       | 0.1390823 |          |     |          |     |          |     |          |     |          |     |
| N-Nitrosodiphenylamine     | 20       | 0.4712783 |          |     |          |     |          |     |          |     |          |     |
| 4-Bromophenyl phenyl ether | 20       | 0.2270975 |          |     |          |     |          |     |          |     |          |     |
| Hexachlorobenzene          | 20       | 0.2294677 |          |     |          |     |          |     |          |     |          |     |
| Pentachlorophenol          | 40       | 0.14751   |          |     |          |     |          |     |          |     |          |     |
| Phenanthrene               | 20       | 0.975533  |          |     |          |     |          |     |          |     |          |     |
| Anthracene                 | 20       | 1.002028  |          |     |          |     |          |     |          |     |          |     |
| Carbazole                  | 20       | 0.9050785 |          |     |          |     |          |     |          |     |          |     |
| Di-n-Butylphthalate        | 20       | 1.060455  |          |     |          |     |          |     |          |     |          |     |
| Fluoranthene               | 20       | 1.512933  |          |     |          |     |          |     |          |     |          |     |
| Pyrene                     | 20       | 1.524475  |          |     |          |     |          |     |          |     |          |     |



## INITIAL CALIBRATION DATA

### EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Instrument: NT14

Calibration Date: 02/28/2023

Column (1): ZB-5MS

Calibration Comments: 625.1/8270E ICAL

| Compound                    | Level 07 |           | Level 08 |     | Level 09 |     | Level 10 |     | Level 11 |     | Level 12 |     |
|-----------------------------|----------|-----------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
|                             | Conc     | RRF       | Conc     | RRF | Conc     | RRF | Conc     | RRF | Conc     | RRF | Conc     | RRF |
| Butylbenzylphthalate        | 20       | 0.5250842 |          |     |          |     |          |     |          |     |          |     |
| Benzo(a)anthracene          | 20       | 1.072722  |          |     |          |     |          |     |          |     |          |     |
| 3,3'-Dichlorobenzidine      | 60       | 0.3588605 |          |     |          |     |          |     |          |     |          |     |
| Chrysene                    | 20       | 1.169872  |          |     |          |     |          |     |          |     |          |     |
| bis(2-Ethylhexyl)phthalate  | 20       | 0.5961258 |          |     |          |     |          |     |          |     |          |     |
| Di-n-Octylphthalate         | 20       | 0.9672879 |          |     |          |     |          |     |          |     |          |     |
| Benzo(a)fluoranthene, Total | 40       | 1.232453  |          |     |          |     |          |     |          |     |          |     |
| Benzo(a)pyrene              | 20       | 1.169502  |          |     |          |     |          |     |          |     |          |     |
| Indeno(1,2,3-cd)pyrene      | 20       | 1.442668  |          |     |          |     |          |     |          |     |          |     |
| Dibenzo(a,h)anthracene      | 20       | 1.169843  |          |     |          |     |          |     |          |     |          |     |
| Benzo(g,h,i)perylene        | 20       | 1.315986  |          |     |          |     |          |     |          |     |          |     |
| 1-Methylnaphthalene         | 20       | 0.6758541 |          |     |          |     |          |     |          |     |          |     |
| 2-Fluorophenol              | 30       | 1.112686  |          |     |          |     |          |     |          |     |          |     |
| Phenol-d5                   | 30       | 1.53155   |          |     |          |     |          |     |          |     |          |     |
| 2-Chlorophenol-d4           | 30       | 1.309599  |          |     |          |     |          |     |          |     |          |     |
| 1,2-Dichlorobenzene-d4      | 20       | 0.8824367 |          |     |          |     |          |     |          |     |          |     |
| Nitrobenzene-d5             | 20       | 0.3995827 |          |     |          |     |          |     |          |     |          |     |
| 2-Fluorobiphenyl            | 20       | 1.464849  |          |     |          |     |          |     |          |     |          |     |
| 2,4,6-Tribromophenol        | 30       | 0.2516705 |          |     |          |     |          |     |          |     |          |     |
| p-Terphenyl-d14             | 20       | 1.093348  |          |     |          |     |          |     |          |     |          |     |



**INITIAL CALIBRATION DATA**  
**EPA 8270E**

|                       |                           |             |                 |
|-----------------------|---------------------------|-------------|-----------------|
| Laboratory:           | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:               | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:          | GC00033                   | Instrument: | NT14            |
| Calibration Date:     | 02/28/2023                | Column (1): | ZB-5MS          |
| Calibration Comments: | 625.1/8270E ICAL          |             |                 |

| COMPOUND                     | Mean RRF  | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|------------------------------|-----------|---------|------------|----------|--------------------|---|
| Phenol                       | 1.83735   | 7.6     |            |          | RSD (15)           |   |
| bis(2-chloroethyl) ether     | 1.531255  | 45.1    |            | 0.9997   | QCOD (0.99)        |   |
| 2-Chlorophenol               | 1.353369  | 8.7     |            |          | RSD (15)           |   |
| 1,3-Dichlorobenzene          | 1.491474  | 5.7     |            |          | RSD (15)           |   |
| 1,4-Dichlorobenzene          | 1.47406   | 3.5     |            |          | RSD (15)           |   |
| 1,2-Dichlorobenzene          | 1.413449  | 6.0     |            |          | RSD (15)           |   |
| Benzyl Alcohol               | 0.6439892 | 35.8    |            | 0.9992   | QCOD (0.99)        |   |
| 2,2'-Oxybis(1-chloropropane) | 0.3811859 | 3.0     |            |          | RSD (15)           |   |
| 2-Methylphenol               | 1.160731  | 14.3    |            |          | RSD (15)           |   |
| Hexachloroethane             | 0.5535732 | 3.8     |            |          | RSD (15)           |   |
| N-Nitroso-di-n-Propylamine   | 0.8837751 | 11.2    |            |          | RSD (15)           |   |
| 4-Methylphenol               | 1.135305  | 24.5    |            | 0.9998   | QCOD (0.99)        |   |
| Nitrobenzene                 | 0.3760061 | 11.2    |            |          | RSD (15)           |   |
| Isophorone                   | 0.4996273 | 17.8    |            | 0.9996   | QCOD (0.99)        |   |
| 2-Nitrophenol                | 0.1467597 | 40.5    |            | 0.9986   | QCOD (0.99)        |   |
| 2,4-Dimethylphenol           | 0.3427845 | 9.3     |            |          | RSD (15)           |   |
| Bis(2-Chloroethoxy)methane   | 0.3780235 | 9.8     |            |          | RSD (15)           |   |
| 2,4-Dichlorophenol           | 0.2946235 | 19.3    |            | 0.9999   | QCOD (0.99)        |   |
| 1,2,4-Trichlorobenzene       | 0.3874001 | 6.6     |            |          | RSD (15)           |   |
| Naphthalene                  | 1.066958  | 5.7     |            |          | RSD (15)           |   |
| Benzoic acid                 | 0.1358415 | 53.2    |            |          | RSD (15)           | * |
| 4-Chloroaniline              | 0.4563565 | 5.3     |            |          | RSD (15)           |   |
| Hexachlorobutadiene          | 0.2363916 | 4.7     |            |          | RSD (15)           |   |
| 4-Chloro-3-Methylphenol      | 0.3085482 | 8.6     |            |          | RSD (15)           |   |
| 2-Methylnaphthalene          | 0.7901196 | 4.6     |            |          | RSD (15)           |   |
| Hexachlorocyclopentadiene    | 0.3443795 | 30.4    |            | 0.9994   | QCOD (0.99)        |   |
| 2,4,6-Trichlorophenol        | 0.3907367 | 10.7    |            |          | RSD (15)           |   |
| 2,4,5-Trichlorophenol        | 0.4224702 | 13.5    |            |          | RSD (15)           |   |
| 2-Chloronaphthalene          | 1.248028  | 2.8     |            |          | RSD (15)           |   |
| 2-Nitroaniline               | 0.3254949 | 9.8     |            |          | RSD (15)           |   |



**INITIAL CALIBRATION DATA**  
**EPA 8270E**

|                       |                           |             |                 |
|-----------------------|---------------------------|-------------|-----------------|
| Laboratory:           | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:               | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:          | GC00033                   | Instrument: | NT14            |
| Calibration Date:     | 02/28/2023                | Column (1): | ZB-5MS          |
| Calibration Comments: | 625.1/8270E ICAL          |             |                 |

| COMPOUND                   | Mean RRF     | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|----------------------------|--------------|---------|------------|----------|--------------------|---|
| Acenaphthylene             | 1.831295     | 7.4     |            |          | RSD (15)           |   |
| Dimethylphthalate          | 1.258157     | 9.7     |            |          | RSD (15)           |   |
| 2,6-Dinitrotoluene         | 0.2948315    | 5.3     |            |          | RSD (15)           |   |
| Acenaphthene               | 1.172493     | 3.5     |            |          | RSD (15)           |   |
| 3-Nitroaniline             | 0.302181     | 10.6    |            |          | RSD (15)           |   |
| 2,4-Dinitrophenol          | 0.1437811    | 58.1    |            | 0.9944   | QCOD (0.99)        |   |
| Dibenzofuran               | 1.865621     | 3.9     |            |          | RSD (15)           |   |
| 4-Nitrophenol              | 0.1323756    | 27.7    |            | 0.9981   | QCOD (0.99)        |   |
| 2,4-Dinitrotoluene         | 0.4244424    | 7.5     |            |          | RSD (15)           |   |
| Fluorene                   | 1.571901     | 6.5     |            |          | RSD (15)           |   |
| 4-Chlorophenylphenyl ether | 0.8363665    | 7.4     |            |          | RSD (15)           |   |
| Diethyl phthalate          | 1.176544     | 10.5    |            |          | RSD (15)           |   |
| 4-Nitroaniline             | 0.299545     | 14.2    |            |          | RSD (15)           |   |
| 4,6-Dinitro-2-methylphenol | 9.751688E-02 | 49.9    |            | 0.9988   | QCOD (0.99)        |   |
| N-Nitrosodiphenylamine     | 0.5026629    | 6.9     |            |          | RSD (15)           |   |
| 4-Bromophenyl phenyl ether | 0.22099      | 5.9     |            |          | RSD (15)           |   |
| Hexachlorobenzene          | 0.2429692    | 3.4     |            |          | RSD (15)           |   |
| Pentachlorophenol          | 9.382634E-02 | 49.5    |            | 0.9965   | QCOD (0.99)        |   |
| Phenanthrene               | 1.064087     | 5.0     |            |          | RSD (15)           |   |
| Anthracene                 | 1.005958     | 8.8     |            |          | RSD (15)           |   |
| Carbazole                  | 0.8816605    | 6.5     |            |          | RSD (15)           |   |
| Di-n-Butylphthalate        | 0.9469101    | 23.4    |            | 0.9997   | QCOD (0.99)        |   |
| Fluoranthene               | 1.517593     | 6.5     |            |          | RSD (15)           |   |
| Pyrene                     | 1.600033     | 6.2     |            |          | RSD (15)           |   |
| Butylbenzylphthalate       | 0.4562763    | 27.9    |            | 0.9996   | QCOD (0.99)        |   |
| Benzo(a)anthracene         | 1.339902     | 10.2    |            |          | RSD (15)           |   |
| 3,3'-Dichlorobenzidine     | 0.3826468    | 6.4     |            |          | RSD (15)           |   |
| Chrysene                   | 1.287904     | 4.5     |            |          | RSD (15)           |   |
| bis(2-Ethylhexyl)phthalate | 0.5161185    | 24.5    |            | 0.9998   | QCOD (0.99)        |   |
| Di-n-Octylphthalate        | 1.053183     | 5.5     |            |          | RSD (15)           |   |



**INITIAL CALIBRATION DATA**  
**EPA 8270E**

|                       |                           |             |                 |
|-----------------------|---------------------------|-------------|-----------------|
| Laboratory:           | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:               | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:          | GC00033                   | Instrument: | NT14            |
| Calibration Date:     | 02/28/2023                | Column (1): | ZB-5MS          |
| Calibration Comments: | 625.1/8270E ICAL          |             |                 |

| COMPOUND                  | Mean RRF  | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|---------------------------|-----------|---------|------------|----------|--------------------|---|
| Benzofluoranthenes, Total | 1.292777  | 3.6     |            |          | RSD (15)           |   |
| Benzo(a)pyrene            | 1.133815  | 9.4     |            |          | RSD (15)           |   |
| Indeno(1,2,3-cd)pyrene    | 1.427245  | 6.1     |            |          | RSD (15)           |   |
| Dibenzo(a,h)anthracene    | 1.212207  | 4.9     |            |          | RSD (15)           |   |
| Benzo(g,h,i)perylene      | 1.244813  | 5.5     |            |          | RSD (15)           |   |
| 1-Methylnaphthalene       | 0.7274101 | 3.7     |            |          | RSD (15)           |   |
| 2-Fluorophenol            | 1.084611  | 14.3    |            |          | RSD (15)           |   |
| Phenol-d5                 | 1.53991   | 13.6    |            |          | RSD (15)           |   |
| 2-Chlorophenol-d4         | 1.309391  | 6.9     |            |          | RSD (15)           |   |
| 1,2-Dichlorobenzene-d4    | 0.9857584 | 6.3     |            |          | RSD (15)           |   |
| Nitrobenzene-d5           | 0.3912861 | 12.7    |            |          | RSD (15)           |   |
| 2-Fluorobiphenyl          | 1.556858  | 4.1     |            |          | RSD (15)           |   |
| 2,4,6-Tribromophenol      | 0.1850894 | 32.7    |            | 0.9994   | QCOD (0.99)        |   |
| p-Terphenyl-d14           | 1.231934  | 6.4     |            |          | RSD (15)           |   |





ANALYSIS SEQUENCE

SLB0374

Instrument ID: NT14      GCMS Description: Agilent 7890A/5975C XL  
 Calibration ID: GC00033      GCMS Column ID: L001045  
 MS EM Level: 1706 EV

| Lab Number   | Sample Name       | Analysis                    | Container | Order | STD ID  | ISTD ID | Analyzed         | File ID        | Analyst | Comments |
|--------------|-------------------|-----------------------------|-----------|-------|---------|---------|------------------|----------------|---------|----------|
| SLB0374-TUN1 | MS Tune           | QC                          |           | 1     | K004775 |         | 02/28/2023 11:26 | NT1423022801.D | JGR     |          |
| SLB0374-CAL7 | CAL 20            | QC                          |           | 2     | K011111 | K010831 | 02/28/2023 11:39 | NT1423022802.D | JGR     |          |
| SLB0374-CAL6 | CAL 10            | QC                          |           | 3     | K011110 | K010831 | 02/28/2023 12:15 | NT1423022803.D | JGR     |          |
| SLB0374-CAL5 | CAL 5             | QC                          |           | 4     | K011109 | K010831 | 02/28/2023 12:51 | NT1423022804.D | JGR     |          |
| SLB0374-CAL4 | CAL 2.5           | QC                          |           | 5     | K011108 | K010831 | 02/28/2023 13:28 | NT1423022805.D | JGR     |          |
| SLB0374-CAL3 | CAL 1.0           | QC                          |           | 6     | K011107 | K010831 | 02/28/2023 14:04 | NT1423022806.D | JGR     |          |
| SLB0374-CAL2 | CAL 0.5           | QC                          |           | 7     | K011106 | K010831 | 02/28/2023 14:40 | NT1423022807.D | JGR     |          |
| SLB0374-CAL1 | CAL 0.2           | QC                          |           | 8     | K011105 | K010831 | 02/28/2023 15:16 | NT1423022808.D | JGR     |          |
| SLB0374-SCV1 | SCV 5.0           | QC                          |           | 9     | K010066 | K010831 | 02/28/2023 17:41 | NT1423022812.D | JGR     |          |
| SLB0374-ICB1 | Initial Cal Blank | QC                          |           | 10    | K005156 | K010831 | 02/28/2023 17:04 | NT1423022811.D | JGR     |          |
| SLB0374-ICV1 | ABN 5             | QC                          |           | 11    | K011109 | K010831 | 03/01/2023 08:50 | NT1423022813.D | JGR     |          |
| SLB0374-ICV2 | ABN 5             | QC                          |           | 12    | K011109 | K010831 | 03/01/2023 13:39 | NT1423022821.D | JGR     |          |
| SLB0374-LCV1 | ABN 0.2           | QC                          |           | 13    | K011105 | K010831 | 03/01/2023 14:51 | NT1423022823.D | JGR     |          |
| SLB0374-LCV2 | ABN 0.5           | QC                          |           | 14    | K011106 | K010831 | 03/01/2023 16:04 | NT1423022825.D | JGR     |          |
| BLA0557-BLK1 | Blank             | QC                          |           | 15    |         | K010831 | 03/01/2023 16:40 | NT1423022826.D | JGR     |          |
| BLA0557-BS1  | LCS               | QC                          |           | 16    |         | K010831 | 03/01/2023 17:16 | NT1423022827.D | JGR     |          |
| BLA0557-BSD1 | LCS Dup           | QC                          |           | 17    |         | K010831 | 03/01/2023 17:52 | NT1423022828.D | JGR     |          |
| BLA0557-SRM1 | Reference         | QC                          |           | 18    |         | K010831 | 03/01/2023 18:28 | NT1423022829.D | JGR     |          |
| 23A0179-01   | LDW23-SS1277      | (20ug/kg solid or 0.2ug/L l | A 02      | 19    |         | K010831 | 03/01/2023 19:04 | NT1423022830.D | JGR     |          |
| 23A0179-02   | LDW23-SS1271      | (20ug/kg solid or 0.2ug/L l | A 02      | 20    |         | K010831 | 03/01/2023 19:40 | NT1423022831.D | JGR     |          |
| 23A0179-03   | LDW23-SS1266      | (20ug/kg solid or 0.2ug/L l | A 02      | 21    |         | K010831 | 03/01/2023 20:16 | NT1423022832.D | JGR     |          |
| 23A0179-04   | LDW23-SS1248      | (20ug/kg solid or 0.2ug/L l | A 02      | 22    |         | K010831 | 03/01/2023 20:52 | NT1423022833.D | JGR     |          |



ANALYSIS SEQUENCE

SLB0374

Instrument ID: NT14      GCMS Description: Agilent 7890A/5975C XL  
 Calibration ID: GC00033      GCMS Column ID: L001045  
 MS EM Level: 1706 EV

| Lab Number   | Sample Name       | Analysis                   | Container | Order | STD ID  | ISTD ID | Analyzed         | File ID        | Analyst | Comments |
|--------------|-------------------|----------------------------|-----------|-------|---------|---------|------------------|----------------|---------|----------|
| 23A0179-05   | LDW23-SS1239      | 20ug/kg solid or 0.2ug/L l | A 02      | 23    |         | K010831 | 03/01/2023 21:28 | NT1423022834.D | JGR     |          |
| 23A0179-06   | LDW23-SS1213      | 20ug/kg solid or 0.2ug/L l | A 02      | 24    |         | K010831 | 03/01/2023 22:04 | NT1423022835.D | JGR     |          |
| SLB0374-ICV3 | ABN 5             | QC                         |           | 25    | K011109 | K010831 | 03/01/2023 22:40 | NT1423022836.D | JGR     |          |
| SLB0374-LCV3 | ABN 0.2           | QC                         |           | 26    | K011105 | K010831 | 03/01/2023 23:52 | NT1423022838.D | JGR     |          |
| SLB0374-LCV4 | ABN 0.5           | QC                         |           | 27    | K011106 | K010831 | 03/02/2023 00:28 | NT1423022839.D | JGR     |          |
| 23A0179-07   | LDW23-SS1200      | 20ug/kg solid or 0.2ug/L l | A 02      | 28    |         | K010831 | 03/02/2023 01:03 | NT1423022840.D | JGR     |          |
| 23A0179-08   | LDW23-SS1178      | 20ug/kg solid or 0.2ug/L l | A 02      | 29    |         | K010831 | 03/02/2023 01:39 | NT1423022841.D | JGR     |          |
| 23A0179-11   | LDW23-SS1039      | 20ug/kg solid or 0.2ug/L l | A 02      | 30    |         | K010831 | 03/02/2023 02:15 | NT1423022842.D | JGR     |          |
| 23A0179-12   | LDW23-SS1007      | 20ug/kg solid or 0.2ug/L l | A 02      | 31    |         | K010831 | 03/02/2023 02:51 | NT1423022843.D | JGR     |          |
| 23A0180-01   | LDW23-SC1164      | 20ug/kg solid or 0.2ug/L l | A 02      | 32    |         | K010831 | 03/02/2023 03:27 | NT1423022844.D | JGR     |          |
| 23A0180-02   | LDW23-SC1164-FD   | 20ug/kg solid or 0.2ug/L l | A 02      | 33    |         | K010831 | 03/02/2023 04:03 | NT1423022845.D | JGR     |          |
| 23A0180-03   | LDW23-SC1158      | 20ug/kg solid or 0.2ug/L l | A 02      | 34    |         | K010831 | 03/02/2023 04:39 | NT1423022846.D | JGR     |          |
| 23A0180-04   | LDW23-SC1151      | 20ug/kg solid or 0.2ug/L l | A 02      | 35    |         | K010831 | 03/02/2023 05:15 | NT1423022847.D | JGR     |          |
| SLB0374-ICV4 | ABN 5             | QC                         |           | 36    | K011109 | K010831 | 03/02/2023 05:52 | NT1423022848.D | JGR     |          |
| SLB0374-LCV5 | ABN 0.2           | QC                         |           | 37    | K011105 | K010831 | 03/02/2023 07:04 | NT1423022850.D | JGR     |          |
| SLB0374-LCV6 | ABN 0.5           | QC                         |           | 38    | K011106 | K010831 | 03/02/2023 07:40 | NT1423022851.D | JGR     |          |
| 23A0179-09   | LDW23-SS1171      | 20ug/kg solid or 0.2ug/L l | A 02      | 39    |         | K010831 | 03/02/2023 08:16 | NT1423022852.D | JGR     |          |
| 23A0179-10   | LDW23-SS1112      | 20ug/kg solid or 0.2ug/L l | A 02      | 40    |         | K010831 | 03/02/2023 08:53 | NT1423022853.D | JGR     |          |
| BLA0557-MS1  | Matrix Spike      | QC                         |           | 41    |         | K010831 | 03/02/2023 09:29 | NT1423022854.D | JGR     |          |
| BLA0557-MSD1 | Matrix Spike Dup  | QC                         |           | 42    |         | K010831 | 03/02/2023 10:05 | NT1423022855.D | JGR     |          |
| SLB0374-CCV1 | Calibration Check | QC                         |           | 43    | K011109 | K010831 | 03/02/2023 10:41 | NT1423022856.D | JGR     |          |

## INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230228.b

| Time | Filename | LabID          | ClientId     | DF |                |        |       |        |       |        |       |        |       |        |       |        |       |        |
|------|----------|----------------|--------------|----|----------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 1    | 1126     | NT1423022801.D | SLB0374-TUN1 | 1  | NO ISTDs FOUND |        |       |        |       |        |       |        |       |        |       |        |       |        |
| 2    | 1139     | NT1423022802.D | SLB0374-CAL7 | 1  | 8.22           | 113367 | 10.67 | 424117 | 14.26 | 251095 | 17.27 | 497175 | 22.38 | 380267 | 24.73 | 372957 | 23.49 | 489751 |
| 3    | 1215     | NT1423022803.D | SLB0374-CAL6 | 1  | 8.21           | 109658 | 10.67 | 398074 | 14.26 | 245951 | 17.26 | 485216 | 22.38 | 380106 | 24.72 | 359407 | 23.48 | 493409 |
| 4    | 1251     | NT1423022804.D | SLB0374-CAL5 | 1  | 8.21           | 114351 | 10.67 | 408655 | 14.25 | 254000 | 17.25 | 490626 | 22.38 | 390400 | 24.72 | 375675 | 23.48 | 500829 |
| 5    | 1328     | NT1423022805.D | SLB0374-CAL4 | 1  | 8.21           | 113228 | 10.67 | 405310 | 14.25 | 245142 | 17.25 | 485508 | 22.37 | 392724 | 24.71 | 375073 | 23.48 | 485486 |
| 6    | 1404     | NT1423022806.D | SLB0374-CAL3 | 1  | 8.21           | 117168 | 10.67 | 418158 | 14.25 | 252184 | 17.25 | 495615 | 22.37 | 397673 | 24.71 | 383322 | 23.48 | 469239 |
| 7    | 1440     | NT1423022807.D | SLB0374-CAL2 | 1  | 8.22           | 126289 | 10.67 | 445088 | 14.25 | 268255 | 17.25 | 528369 | 22.37 | 429353 | 24.72 | 418883 | 23.48 | 491860 |
| 8    | 1516     | NT1423022808.D | SLB0374-CAL1 | 1  | 8.21           | 113699 | 10.67 | 400412 | 14.25 | 237606 | 17.25 | 464964 | 22.36 | 366875 | 24.72 | 354894 | 23.48 | 382256 |
| 9    | 1552     | NT1423022809.D | SLB0375-CAL2 | 1  | 8.21           | 121492 | 10.67 | 422553 | 14.25 | 248357 | 17.25 | 490951 | 22.36 | 403914 | 24.71 | 390908 | 23.48 | 418382 |
| 10   | 1628     | NT1423022810.D | SLB0375-CAL1 | 1  | 8.21           | 114265 | 10.66 | 405698 | 14.25 | 238126 | 17.25 | 464234 | 22.36 | 368456 | 24.72 | 361000 | 23.48 | 374202 |
| 11   | 1704     | NT1423022811.D | SLB0374-ICB1 | 1  | 8.21           | 117167 | 10.66 | 407027 | 14.24 | 239853 | 17.25 | 473405 | 22.36 | 364221 | 24.71 | 358535 | 23.48 | 366453 |
| 12   | 1741     | NT1423022812.D | SLB0374-SCV1 | 1  | 8.21           | 105595 | 10.67 | 379346 | 14.25 | 230482 | 17.25 | 458109 | 22.37 | 351284 | 24.71 | 336637 | 23.48 | 422614 |
| 13   | 0850     | NT1423022813.D | SLB0374-ICV1 | 1  | 8.19           | 130493 | 10.64 | 468517 | 14.23 | 287099 | 17.24 | 562063 | 22.35 | 437959 | 24.70 | 412943 | 23.47 | 562397 |
| 14   | 0926     | NT1423022814.D | SLB0374-ICV2 | 1  | 8.19           | 121368 | 10.64 | 435125 | 14.22 | 258208 | 17.23 | 509895 | 22.35 | 402908 | 24.69 | 386677 | 23.46 | 463321 |
| 15   | 1002     | NT1423022815.D | SLB0374-IBL1 | 1  | 8.19           | 112285 | 10.64 | 401456 | 14.23 | 248381 | 17.23 | 490071 | 22.35 | 382855 | 24.70 | 358877 | 23.47 | 475658 |
| 16   | 1039     | NT1423022816.D | 23A0134-12   | 1  | 8.19           | 163816 | 10.64 | 584308 | 14.23 | 345158 | 17.24 | 639221 | 22.36 | 496464 | 24.71 | 637348 | 23.48 | 751371 |
| 17   | 1115     | NT1423022817.D | 23A0134-13   | 1  | 8.19           | 145235 | 10.64 | 527217 | 14.23 | 301577 | 17.25 | 565289 | 22.39 | 445240 | 24.77 | 393072 | 23.50 | 531926 |
| 18   | 1151     | NT1423022818.D | BLA0410-MS1  | 1  | 8.19           | 122256 | 10.65 | 431740 | 14.24 | 256989 | 17.25 | 480982 | 22.41 | 379908 | 24.78 | 288883 | 23.51 | 422602 |
| 19   | 1227     | NT1423022819.D | BLA0410-MSD1 | 1  | 8.19           | 115160 | 10.65 | 407447 | 14.24 | 243692 | 17.25 | 448530 | 22.40 | 375694 | 24.78 | 292934 | 23.51 | 436267 |
| 20   | 1303     | NT1423022820.D | 23A0134-15   | 1  | 8.19           | 123533 | 10.65 | 442879 | 14.23 | 256586 | 17.25 | 473488 | 22.38 | 423862 | 24.74 | 428289 | 23.48 | 605691 |

## INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230228.b

| Time | Filename | LabID          | ClientId         | DF |   |  |      |               |               |               |               |               |               |        |  |
|------|----------|----------------|------------------|----|---|--|------|---------------|---------------|---------------|---------------|---------------|---------------|--------|--|
| 21   | 1339     | NT1423022821.D | SLB0374-ICV2     |    | 1 |  | 8.19 | 125853  10.65 | 454961  14.23 | 273779  17.24 | 520384  22.36 | 399183  24.71 | 478887  23.47 | 602810 |  |
| 22   | 1415     | NT1423022822.D | SLB0374-CCV2     |    | 1 |  | 8.19 | 113379  10.65 | 412348  14.23 | 239323  17.24 | 447754  22.36 | 329136  24.71 | 411253  23.47 | 499022 |  |
| 23   | 1451     | NT1423022823.D | SLB0374-LCV1     |    | 1 |  | 8.19 | 114717  10.65 | 407764  14.23 | 232149  17.24 | 434349  22.36 | 321275  24.71 | 396889  23.47 | 479418 |  |
| 24   | 1527     | NT1423022824.D | SLB0374-LCV2-sim |    | 1 |  | 8.19 | 114478  10.65 | 407756  14.23 | 229888  17.24 | 431838  22.35 | 320335  24.71 | 390425  23.47 | 465252 |  |
| 25   | 1604     | NT1423022825.D | SLB0374-LCV2     |    | 1 |  | 8.19 | 130297  10.64 | 458645  14.23 | 264644  17.24 | 503378  22.36 | 366987  24.71 | 433681  23.47 | 534079 |  |
| 26   | 1640     | NT1423022826.D | BLA0557-BLK1     |    | 1 |  | 8.19 | 119737  10.64 | 429209  14.23 | 246224  17.24 | 459727  22.36 | 327323  24.71 | 397979  23.47 | 489283 |  |
| 27   | 1716     | NT1423022827.D | BLA0557-BS1      |    | 1 |  | 8.19 | 115317  10.65 | 411740  14.23 | 247058  17.24 | 455912  22.36 | 347971  24.71 | 413395  23.47 | 520496 |  |
| 28   | 1752     | NT1423022828.D | BLA0557-BSD1     |    | 1 |  | 8.19 | 113200  10.65 | 411152  14.23 | 242424  17.24 | 456525  22.36 | 343644  24.71 | 400872  23.47 | 509245 |  |
| 29   | 1828     | NT1423022829.D | BLA0557-SRM1     |    | 1 |  | 8.19 | 118527  10.64 | 431802  14.23 | 245761  17.24 | 473833  22.36 | 346329  24.71 | 414695  23.47 | 532201 |  |
| 30   | 1904     | NT1423022830.D | 23A0179-01       |    | 1 |  | 8.19 | 119238  10.64 | 432560  14.23 | 248523  17.24 | 466029  22.36 | 374382  24.72 | 421669  23.48 | 560278 |  |
| 31   | 1940     | NT1423022831.D | 23A0179-02       |    | 1 |  | 8.19 | 119277  10.64 | 432454  14.23 | 252217  17.25 | 481102  22.37 | 372794  24.72 | 416230  23.48 | 566258 |  |
| 32   | 2016     | NT1423022832.D | 23A0179-03       |    | 1 |  | 8.19 | 115524  10.65 | 421103  14.23 | 239203  17.25 | 458791  22.37 | 370872  24.72 | 393621  23.48 | 549356 |  |
| 33   | 2052     | NT1423022833.D | 23A0179-04       |    | 1 |  | 8.19 | 116979  10.65 | 423995  14.23 | 244587  17.25 | 462250  22.37 | 384116  24.73 | 379708  23.48 | 562558 |  |
| 34   | 2128     | NT1423022834.D | 23A0179-05       |    | 1 |  | 8.19 | 112666  10.65 | 413748  14.23 | 238289  17.25 | 453532  22.37 | 360184  24.72 | 366272  23.48 | 547319 |  |
| 35   | 2204     | NT1423022835.D | 23A0179-06       |    | 1 |  | 8.19 | 110602  10.65 | 406761  14.23 | 233719  17.25 | 442539  22.38 | 371233  24.73 | 341558  23.48 | 549387 |  |
| 36   | 2240     | NT1423022836.D | SLB0374-ICV3     |    | 1 |  | 8.20 | 115350  10.65 | 415895  14.24 | 246020  17.25 | 448598  22.37 | 373978  24.71 | 357819  23.48 | 541572 |  |
| 37   | 2316     | NT1423022837.D | SLB0374-CCV4     |    | 1 |  | 8.20 | 101302  10.65 | 365654  14.23 | 208218  17.24 | 380917  22.36 | 308390  24.72 | 291479  23.47 | 448418 |  |
| 38   | 2352     | NT1423022838.D | SLB0374-LCV3     |    | 1 |  | 8.20 | 114387  10.65 | 404965  14.23 | 227510  17.25 | 416834  22.36 | 340670  24.71 | 315652  23.47 | 485089 |  |
| 39   | 0028     | NT1423022839.D | SLB0374-LCV4     |    | 1 |  | 8.19 | 113866  10.65 | 401641  14.23 | 232085  17.24 | 421769  22.36 | 338375  24.72 | 315661  23.47 | 478625 |  |
| 40   | 0103     | NT1423022840.D | 23A0179-07       |    | 1 |  | 8.19 | 113345  10.65 | 407490  14.23 | 237925  17.25 | 446581  22.37 | 349621  24.72 | 323654  23.48 | 514994 |  |
| 41   | 0139     | NT1423022841.D | 23A0179-08       |    | 1 |  | 8.20 | 110627  10.65 | 415675  14.24 | 236007  17.25 | 446361  22.38 | 373421  24.73 | 329916  23.48 | 555260 |  |

## INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230228.b

| Time | Filename | LabID          | ClientId     | DF |  |      |               |               |               |               |               |               |        |  |
|------|----------|----------------|--------------|----|--|------|---------------|---------------|---------------|---------------|---------------|---------------|--------|--|
| 42   | 0215     | NT1423022842.D | 23A0179-11   | 1  |  | 8.20 | 111897  10.65 | 409099  14.24 | 236278  17.25 | 442785  22.38 | 383564  24.74 | 309313  23.48 | 565245 |  |
| 43   | 0251     | NT1423022843.D | 23A0179-12   | 1  |  | 8.20 | 109867  10.65 | 405952  14.24 | 230944  17.25 | 437765  22.38 | 374619  24.74 | 314304  23.48 | 548577 |  |
| 44   | 0327     | NT1423022844.D | 23A0180-01   | 1  |  | 8.20 | 111445  10.66 | 403002  14.24 | 231049  17.25 | 436923  22.39 | 383047  24.75 | 281715  23.49 | 532671 |  |
| 45   | 0403     | NT1423022845.D | 23A0180-02   | 1  |  | 8.20 | 110517  10.66 | 404153  14.24 | 231072  17.25 | 432633  22.39 | 374504  24.75 | 278246  23.49 | 536189 |  |
| 46   | 0439     | NT1423022846.D | 23A0180-03   | 1  |  | 8.20 | 121220  10.66 | 444463  14.25 | 254449  17.26 | 481686  22.38 | 413576  24.75 | 299632  23.49 | 605703 |  |
| 47   | 0515     | NT1423022847.D | 23A0180-04   | 1  |  | 8.21 | 108875  10.66 | 401293  14.25 | 227418  17.26 | 428058  22.39 | 375926  24.75 | 255600  23.49 | 545489 |  |
| 48   | 0552     | NT1423022848.D | SLB0374-ICV4 | 1  |  | 8.21 | 116519  10.67 | 429090  14.25 | 250637  17.25 | 458117  22.38 | 393468  24.73 | 283320  23.48 | 572636 |  |
| 49   | 0628     | NT1423022849.D | SLB0374-CCV6 | 1  |  | 8.21 | 100165  10.66 | 356839  14.25 | 204998  17.25 | 370142  22.38 | 313377  24.72 | 217355  23.48 | 453092 |  |
| 50   | 0704     | NT1423022850.D | SLB0374-LCV5 | 1  |  | 8.21 | 115459  10.66 | 409877  14.25 | 230328  17.25 | 417754  22.38 | 352830  24.73 | 239484  23.48 | 499736 |  |
| 51   | 0740     | NT1423022851.D | SLB0374-LCV6 | 1  |  | 8.21 | 111416  10.66 | 403388  14.25 | 226130  17.25 | 411120  22.37 | 340331  24.72 | 240961  23.48 | 479730 |  |
| 52   | 0816     | NT1423022852.D | 23A0179-09   | 10 |  | 8.21 | 107119  10.66 | 388462  14.24 | 221798  17.25 | 408625  22.37 | 328051  24.73 | 258014  23.48 | 495620 |  |
| 53   | 0853     | NT1423022853.D | 23A0179-10   | 10 |  | 8.21 | 108921  10.66 | 388732  14.24 | 222640  17.25 | 407717  22.38 | 337194  24.73 | 247492  23.48 | 490020 |  |
| 54   | 0929     | NT1423022854.D | BLA0557-MS1  | 10 |  | 8.20 | 108236  10.66 | 386639  14.24 | 219298  17.25 | 399312  22.37 | 325344  24.72 | 222525  23.48 | 476401 |  |
| 55   | 1005     | NT1423022855.D | BLA0557-MSD1 | 10 |  | 8.20 | 107306  10.66 | 387922  14.24 | 222307  17.25 | 411647  22.37 | 322410  24.72 | 228505  23.48 | 482430 |  |
| 56   | 1041     | NT1423022856.D | SLB0374-CCV7 | 1  |  | 8.21 | 125192  10.66 | 458907  14.25 | 271560  17.25 | 498585  22.38 | 404214  24.72 | 284657  23.48 | 582020 |  |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230228.b

Instrument: nt14.i Date: 28-FEB-2023

| Time | Filename       | LabID        | DF | Manually Integrated Compounds   |
|------|----------------|--------------|----|---|
| 1126 | NT1423022801.D | SLB0374-TUN1 | 1  | NO MANUAL INTEGRATION   |
| 1139 | NT1423022802.D | SLB0374-CAL7 | 1  | 2,2'-oxybis(1-Chloropropane), Isophorone, Benzoic acid,   |
| 1215 | NT1423022803.D | SLB0374-CAL6 | 1  | Benzoic acid,   |
| 1251 | NT1423022804.D | SLB0374-CAL5 | 1  | NO MANUAL INTEGRATION   |
| 1328 | NT1423022805.D | SLB0374-CAL4 | 1  | Benzoic acid,   |
| 1404 | NT1423022806.D | SLB0374-CAL3 | 1  | Benzoic acid, 2,4-Dinitrophenol, 4-Nitrophenol, Pentachlorophenol,  |
| 1440 | NT1423022807.D | SLB0374-CAL2 | 1  | Benzyl alcohol, 2,4-Dinitrophenol, 4-Nitrophenol, 4,6-Dinitro-2-methylphenol, Pentachlorophenol, Pyridine, 2-Fluorophenol,  |
| 1516 | NT1423022808.D | SLB0374-CAL1 | 1  | Phenol, Bis(2-Chloroethyl)ether, 2-Chlorophenol, Benzyl alcohol, N-Nitroso-di-n-propylamine, 2-Nitrophenol, 4-Chloroaniline, 2,4,5-Trichlorophenol, 3-Nitroaniline, 4-Nitroaniline, 4,6-Dinitro-2-methylphenol, N-2,3,4,6-Tetrachlorophenol, 2-Fluorophenol, 2-Chlorophenol-d4, 2,4,6-Tribromophenol, |
| 1552 | NT1423022809.D | SLB0375-CAL2 | 1  | NO MANUAL INTEGRATION   |
| 1628 | NT1423022810.D | SLB0375-CAL1 | 1  | NO MANUAL INTEGRATION   |
| 1704 | NT1423022811.D | SLB0374-ICB1 | 1  | NO MANUAL INTEGRATION   |
| 1741 | NT1423022812.D | SLB0374-SCV1 | 1  | Benzoic acid, Pentachlorophenol,  |
| 0850 | NT1423022813.D | SLB0374-ICV1 | 1  | NO MANUAL INTEGRATION   |
| 0926 | NT1423022814.D | SLB0374-ICV2 | 1  | NO MANUAL INTEGRATION   |
| 1002 | NT1423022815.D | SLB0374-IBL1 | 1  | NO MANUAL INTEGRATION   |
| 1039 | NT1423022816.D | 23A0134-12   | 1  | Benzoic acid, bis(2-Ethylhexyl)phthalate, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene,   |
| 1115 | NT1423022817.D | 23A0134-13   | 1  | Benzoic acid, Di-n-octylphthalate, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene,  |

Instrument: nt14.i Date: 01-MAR-2023

| Time | Filename       | LabID            | DF | Manually Integrated Compounds   |
|------|----------------|------------------|----|---|
| 1151 | NT1423022818.D | BLA0410-MS1      | 1  | 3,3'-Dichlorobenzidine, Di-n-octylphthalate,  |
| 1227 | NT1423022819.D | BLA0410-MSD1     | 1  | Di-n-octylphthalate,  |
| 1303 | NT1423022820.D | 23A0134-15       | 1  | 2,4-Dimethylphenol, 4-Chlorophenyl-phenylether, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,   |
| 1339 | NT1423022821.D | SLB0374-ICV2     | 1  | 2,2'-oxybis(1-Chloropropane),   |
| 1415 | NT1423022822.D | SLB0374-CCV2     | 1  | NO MANUAL INTEGRATION   |
| 1451 | NT1423022823.D | SLB0374-LCV1     | 1  | Phenol, Benzyl alcohol, 2,2'-oxybis(1-Chloropropane), 2-Nitrophenol, 4-Nitroaniline, 4,6-Dinitro-2-methylpheno<br>Pentachlorophenol, Pyridine, 2,3,4,6-Tetrachlorophenol, |
| 1527 | NT1423022824.D | SLB0374-LCV2-sim | 1  | NO MANUAL INTEGRATION   |
| 1604 | NT1423022825.D | SLB0374-LCV2     | 1  | 2,2'-oxybis(1-Chloropropane), Benzoic acid, 3-Nitroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, Pentachloropheno  |
| 1640 | NT1423022826.D | BLA0557-BLK1     | 1  | NO MANUAL INTEGRATION   |
| 1716 | NT1423022827.D | BLA0557-BS1      | 1  | NO MANUAL INTEGRATION   |
| 1752 | NT1423022828.D | BLA0557-BSD1     | 1  | NO MANUAL INTEGRATION   |
| 1828 | NT1423022829.D | BLA0557-SRM1     | 1  | Benzoic acid,   |
| 1904 | NT1423022830.D | 23A0179-01       | 1  | 1,4-Dichlorobenzene, Benzyl alcohol, 2-Methylphenol, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,  |
| 1940 | NT1423022831.D | 23A0179-02       | 1  | Benzoic acid, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,   |
| 2016 | NT1423022832.D | 23A0179-03       | 1  | Benzyl alcohol, Benzoic acid, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,   |
| 2052 | NT1423022833.D | 23A0179-04       | 1  | Benzoic acid, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,   |
| 2128 | NT1423022834.D | 23A0179-05       | 1  | Benzoic acid, Total Benzofluoranthenes,   |
| 2204 | NT1423022835.D | 23A0179-06       | 1  | Benzoic acid, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,   |

Instrument: nt14.i Date: 01-MAR-2023

| Time | Filename       | LabID        | DF | Manually Integrated Compounds  |
|------|----------------|--------------|----|--|
| 2240 | NT1423022836.D | SLB0374-ICV3 | 1  | NO MANUAL INTEGRATION  |
| 2316 | NT1423022837.D | SLB0374-CCV4 | 1  | NO MANUAL INTEGRATION  |
| 2352 | NT1423022838.D | SLB0374-LCV3 | 1  | Phenol, Benzyl alcohol, 2-Nitrophenol, 2,4-Dichlorophenol, Benzoic acid, 4-Chloroaniline, 4-Chloro-3-methylphenol, 2,4,5-Trichlorophenol, 3-Nitroaniline, 4-Nitrophenol, 4-Nitroaniline, 4,6-Di-Pentachlorophenol, Benzidine, Pyridine, 2,3,4,6-Tetrachlorophenol, 2-Fluorophenol, Phenol-d5, 2,4, |
| 0028 | NT1423022839.D | SLB0374-LCV4 | 1  | Benzyl alcohol, Benzoic acid, 2,4-Dinitrophenol, 4-Nitrophenol, Pentachlorophenol,   |
| 0103 | NT1423022840.D | 23A0179-07   | 1  | 2-Methylphenol, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,  |
| 0139 | NT1423022841.D | 23A0179-08   | 1  | Benzoic acid, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,  |
| 0215 | NT1423022842.D | 23A0179-11   | 1  | Benzyl alcohol, 2-Methylphenol, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,  |
| 0251 | NT1423022843.D | 23A0179-12   | 1  | Benzyl alcohol, Benzoic acid, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,  |
| 0327 | NT1423022844.D | 23A0180-01   | 1  | Benzoic acid, Dibenzo(a,h)anthracene,  |
| 0403 | NT1423022845.D | 23A0180-02   | 1  | Benzoic acid, Dibenzo(a,h)anthracene,  |
| 0439 | NT1423022846.D | 23A0180-03   | 1  | Benzoic acid, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,  |
| 0515 | NT1423022847.D | 23A0180-04   | 1  | Benzoic acid, Dibenzo(a,h)anthracene,  |
| 0552 | NT1423022848.D | SLB0374-ICV4 | 1  | 2,2'-oxybis(1-Chloropropane),  |
| 0628 | NT1423022849.D | SLB0374-CCV6 | 1  | NO MANUAL INTEGRATION  |
| 0704 | NT1423022850.D | SLB0374-LCV5 | 1  | Benzyl alcohol, 2,4-Dichlorophenol, 4-Chloroaniline, 2,4,5-Trichlorophenol, 3-Nitroaniline, 4-Nitroaniline, 4,6-Dinitro-2-methylphenol, Pentachlorophenol, N-Nitrosodimethylamine, Benzidine, Pyridine,  |
| 0740 | NT1423022851.D | SLB0374-LCV6 | 1  | Benzyl alcohol, 2,2'-oxybis(1-Chloropropane), 2-Nitrophenol, Benzoic acid, Hexachlorocyclopentadiene, 2,4-Dini-4-Nitrophenol, Pentachlorophenol, 2,3,4,6-Tetrachlorophenol,  |
| 0816 | NT1423022852.D | 23A0179-09   | 10 | Benzo(k)fluoranthene,  |
| 0853 | NT1423022853.D | 23A0179-10   | 10 | NO MANUAL INTEGRATION  |



Instrument: nt14.i Date: 02-MAR-2023

| Time | Filename       | LabID        | DF | Manually Integrated Compounds   |
|------|----------------|--------------|----|---|
| 0929 | NT1423022854.D | BLA0557-MS1  | 10 | Benzyl alcohol, Benzoic acid, 4-Chloroaniline, 2,4-Dinitrophenol,                                   |
| 1005 | NT1423022855.D | BLA0557-MSD1 | 10 | Benzyl alcohol, Benzoic acid, 4-Chloroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, Pentachlorophenol, |
| 1041 | NT1423022856.D | SLB0374-CCV7 | 1  | 2,2'-oxybis(1-Chloropropane), Benzoic acid,   |

Security Status Report

Date: 14-Mar-2023 09:37

|                |             |      |             |       |
|----------------|-------------|------|-------------|-------|
| NT1423022801.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022802.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022803.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022804.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022805.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022806.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022807.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022808.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022809.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022810.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022811.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022812.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022813.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022814.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022815.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022816.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022817.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022818.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
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| NT1423022824.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
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| NT1423022827.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022828.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022829.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022830.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022831.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
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| NT1423022833.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022834.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022835.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022836.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022837.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022838.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022839.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022840.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022841.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022842.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
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| NT1423022844.D | Data Locked | van, | 14-Mar-2023 | 09:37 |

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| NT1423022845.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022846.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022847.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022848.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022849.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022850.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022851.D | Data Locked | van, 14-Mar-2023 09:37 |
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| NT1423022853.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022854.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022855.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022856.D | Data Locked | van, 14-Mar-2023 09:37 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-FEB-2023 11:39  
 End Cal Date : 28-FEB-2023 15:16  
 Quant Method : ISTD  
 Origin : Force  
 Target Version : 4.14  
 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Last Edit : 10-Mar-2023 12:04 van

Calibration File Names:

Level 1: \\target\share\chem3\nt14.i\20230228.b\NT1423022808.D  
 Level 2: \\target\share\chem3\nt14.i\20230228.b\NT1423022807.D  
 Level 3: \\target\share\chem3\nt14.i\20230228.b\NT1423022806.D  
 Level 4: \\target\share\chem3\nt14.i\20230228.b\NT1423022805.D  
 Level 5: \\target\share\chem3\nt14.i\20230228.b\NT1423022804.D  
 Level 6: \\target\share\chem3\nt14.i\20230228.b\NT1423022803.D  
 Level 7: \\target\share\chem3\nt14.i\20230228.b\NT1423022802.D

| Compound               | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | Coefficients |    |    | %RSD<br>or R <sup>2</sup> |
|------------------------|-----------|-----------|---------|---------|---------|---------|-------|--------------|----|----|---------------------------|
|                        | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       | b            | m1 | m2 |                           |
| 186 Carbaryl           | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   | AVRG  | 0.000e+000   |    |    | 0.000e+000 <-             |
| 179 n-Decane           | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   | AVRG  | 0.000e+000   |    |    | 0.000e+000 <-             |
| 180 n-Octadecane       | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   | AVRG  | 0.000e+000   |    |    | 0.000e+000 <-             |
| 169 4-tert-Butylphenol | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   | AVRG  | 0.000e+000   |    |    | 0.000e+000                |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-FEB-2023 11:39  
 End Cal Date : 28-FEB-2023 15:16  
 Quant Method : ISTD  
 Origin : Force  
 Target Version : 4.14  
 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Last Edit : 10-Mar-2023 12:04 van

| Compound                | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R <sup>2</sup> |
|-------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
|                         | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                           |
|                         | 20.0000   |           |         |         |         |         |       |   |              |    |                           |
|                         | Level 7   |           |         |         |         |         |       |   |              |    |                           |
| 170 N,N-Dimethylaniline | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                         | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 171 2,3-Dimethylaniline | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                         | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 172 2,4-Dimethylaniline | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                         | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 173 2,5-Dimethylaniline | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                         | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 174 2,6-Dimethylaniline | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                         | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 175 3,4-Dimethylaniline | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                         | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 176 3,5-Dimethylaniline | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                         | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |

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Start Cal Date : 28-FEB-2023 11:39  
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 Target Version : 4.14  
 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Last Edit : 10-Mar-2023 12:04 van

| Compound               | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
|                        | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                        | 20.0000   |           |         |         |         |         |       |   |              |    |                |
|                        | Level 7   |           |         |         |         |         |       |   |              |    |                |
| 177 p-Benzoquinone     | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                        | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 168 Pentachlorobenzene | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                        | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 145 4,4'-DDE           | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                        | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 146 4,4'-DDD           | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                        | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 147 4,4'-DDT           | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                        | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 148 Dieldrin           | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                        | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 149 TCMX               | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                        | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |

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 Method file : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Last Edit : 10-Mar-2023 12:04 van

| Compound                        | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|---------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
|                                 | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                                 | 20.0000   |           |         |         |         |         |       |   |              |    |                |
|                                 | Level 7   |           |         |         |         |         |       |   |              |    |                |
| 150 DCBP                        | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                 | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 138 Chlorobenzilate             | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                 | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 139 Isodrin                     | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                 | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 140 Diallate A                  | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                 | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 141 Diallate B                  | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                 | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 142 1,2-Dibromo-3-Chloropropane | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                 | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 135 2,3,5,6-Tetrachlorophenol   | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                 | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |

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| Compound                      | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|-------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
|                               | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                               | 20.0000   |           |         |         |         |         |       |   |              |    |                |
|                               | Level 7   |           |         |         |         |         |       |   |              |    |                |
| 136 2,3,4,5-tetrachlorophenol | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                               | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 133 Butylatedhydroxytoluene   | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                               | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 132 3,6-Dimethylphenanthrene  | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                               | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 131 1-Methylphenanthrene      | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                               | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 130 Dibenzothiophene          | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                               | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 129 1-Methylfluorene          | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                               | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 128 N-Hexadecane              | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                               | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |



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| Compound                    | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|-----------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
|                             | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                             | 20.0000   |           |         |         |         |         |       |   |              |    |                |
|                             | Level 7   |           |         |         |         |         |       |   |              |    |                |
| 127 2-Isopropyl-naphthalene | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                             | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 126 N-Tetradecane           | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                             | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 144 alpha-Terpineol         | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                             | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 125 Safrole                 | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                             | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 124 3,4-Dimethylphenol      | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                             | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 123 Acetophenone            | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                             | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 122 Furfuraldehyde          | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                             | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |

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| Compound                          | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b          | Coefficients |    | %RSD<br>or R^2 |
|-----------------------------------|-----------|-----------|---------|---------|---------|---------|-------|------------|--------------|----|----------------|
|                                   | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |            | m1           | m2 |                |
|                                   | 20.0000   |           |         |         |         |         |       |            |              |    |                |
|                                   | Level 7   |           |         |         |         |         |       |            |              |    |                |
| 143 1,4-Dioxane                   | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |            |              |    |                |
|                                   | ++++      |           |         |         |         |         | AVRG  | 0.000e+000 |              |    | 0.000e+000 <-  |
| 121 Quinoline                     | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |            |              |    |                |
|                                   | ++++      |           |         |         |         |         | AVRG  | 0.000e+000 |              |    | 0.000e+000     |
| 120 2,3,4,6-Tetrachlorophenol     | 0.11650   | 0.27070   | 0.34565 | 0.41513 | 0.44809 | 0.48628 |       |            |              |    |                |
|                                   | 0.50655   |           |         |         |         |         | AVRG  | 0.36984    |              |    | 37.43660 <-    |
| 178 2-Benzyl-4-Chlorophenol       | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |            |              |    |                |
|                                   | ++++      |           |         |         |         |         | AVRG  | 0.000e+000 |              |    | 0.000e+000 <-  |
| 119 7,12-Dimethylbenz(a)anthracen | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |            |              |    |                |
|                                   | ++++      |           |         |         |         |         | AVRG  | 0.000e+000 |              |    | 0.000e+000     |
| 118 Triphenyl Phosphate           | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |            |              |    |                |
|                                   | ++++      |           |         |         |         |         | AVRG  | 0.000e+000 |              |    | 0.000e+000 <-  |
| 117 Butyl Diphenyl Phosphate      | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |            |              |    |                |
|                                   | ++++      |           |         |         |         |         | AVRG  | 0.000e+000 |              |    | 0.000e+000 <-  |

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| Compound                          | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|-----------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
|                                   | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                                   | 20.0000   |           |         |         |         |         |       |   |              |    |                |
|                                   | Level 7   |           |         |         |         |         |       |   |              |    |                |
| 116 Dibutyl Phenyl Phosphate      | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                                   | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000<-   |
| 115 Tributyl Phosphate            | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                                   | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000<-   |
| 114 Beta-Pinene                   | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                                   | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 113 Diphenyl Oxide                | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                                   | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000<-   |
| 112 Biphenyl                      | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                                   | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000<-   |
| 111 Azobenzene (1,2-DP-Hydrazine) | 1.11049   | 1.41406   | 1.48290 | 1.45308 | 1.39796 | 1.33952 |       |   |              |    |                |
|                                   | 1.25690   |           |         |         |         |         | AVRG  |   | 1.35070      |    | 9.59753        |
| 110 Tetrachloroguaiacol           | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                                   | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000<-   |

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| Compound                    | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|-----------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
|                             | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                             | 20.0000   |           |         |         |         |         |       |   |              |    |                |
|                             | Level 7   |           |         |         |         |         |       |   |              |    |                |
| 109 3,4,5-Trichloroguaiacol | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                             | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 181 3,4,6-Trichloroguaiacol | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                             | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 108 4,5,6-Trichloroguaiacol | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                             | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 184 3,4-Dichloroguaiacol    | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                             | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 107 4,5-Dichloroguaiacol    | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                             | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 182 4,6-Dichloroguaiacol    | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                             | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 185 4-Chloroguaiacol        | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                             | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |

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| Compound                       | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|--------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
|                                | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                                | 20.0000   |           |         |         |         |         |       |   |              |    |                |
|                                | Level 7   |           |         |         |         |         |       |   |              |    |                |
| 106 Guaiacol                   | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 105 1-methylnaphthalene        | 0.70792   | 0.74175   | 0.75384 | 0.73681 | 0.74541 | 0.73029 |       |   |              |    |                |
|                                | 0.67585   |           |         |         |         |         | AVRG  |   | 0.72741      |    | 3.70694        |
| 151 1,2,4,5-Tetrachlorobenzene | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 152 Benzo(e)pyrene             | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 153 Chlorpyrifos               | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 154 Diazinon                   | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 155 Kelthane                   | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |

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 Method file : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
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| Compound                           | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R <sup>2</sup> |
|------------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
|                                    | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                           |
|                                    | 20.0000   |           |         |         |         |         |       |   |              |    |                           |
|                                    | Level 7   |           |         |         |         |         |       |   |              |    |                           |
| 156 Methyl Parathion               | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                                    | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 157 Ethyl Parathion                | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                                    | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 158 Ethion                         | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                                    | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 159 4-Nonylphenol                  | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                                    | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 160 Tetraethyl Tin                 | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                                    | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 161 1,2,3-Trichloronaphthalene     | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                                    | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 162 1,2,3,4-Tetrachloronaphthalene | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                                    | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |

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| Compound                          | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b          | Coefficients |         | %RSD<br>or R^2 |
|-----------------------------------|-----------|-----------|---------|---------|---------|---------|-------|------------|--------------|---------|----------------|
|                                   | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |            | m1           | m2      |                |
|                                   | 20.0000   |           |         |         |         |         |       |            |              |         |                |
|                                   | Level 7   |           |         |         |         |         |       |            |              |         |                |
| 163 1,2,3,5,8-Pentachloronaphthal | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |            |              |         |                |
|                                   | +++++     |           |         |         |         |         | AVRG  |            | 0.000e+000   |         | 0.000e+000     |
| 164 1,2,3,4,6,7-Hexachloronaphtha | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |            |              |         |                |
|                                   | +++++     |           |         |         |         |         | AVRG  |            | 0.000e+000   |         | 0.000e+000     |
| 165 1,2,3,4,5,6,7-Heptachloronaph | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |            |              |         |                |
|                                   | +++++     |           |         |         |         |         | AVRG  |            | 0.000e+000   |         | 0.000e+000     |
| 166 Octachloronaphthalene         | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |            |              |         |                |
|                                   | +++++     |           |         |         |         |         | AVRG  |            | 0.000e+000   |         | 0.000e+000     |
| 167 2,2',4,4',5-Pentabromobipheny | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |            |              |         |                |
|                                   | +++++     |           |         |         |         |         | AVRG  |            | 0.000e+000   |         | 0.000e+000     |
| 3 Phenol                          | 1.71277   | 1.73133   | 1.94162 | 1.98730 | 1.97334 | 1.87319 |       |            |              |         |                |
|                                   | 1.64190   |           |         |         |         |         | AVRG  |            | 1.83735      |         | 7.63575        |
| 4 Bis(2-Chloroethyl)ether         | 17505     | 21291     | 42650   | 88931   | 175790  | 331952  |       |            |              |         |                |
|                                   | 644777    |           |         |         |         |         | QUAD  | 0.000e+000 | 0.76930      | 0.01931 | 0.99976        |

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| Compound                        | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b          | Coefficients |          | %RSD<br>or R^2 |
|---------------------------------|-----------|-----------|---------|---------|---------|---------|-------|------------|--------------|----------|----------------|
|                                 | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |            | m1           | m2       |                |
|                                 | 20.0000   |           |         |         |         |         |       |            |              |          |                |
|                                 | Level 7   |           |         |         |         |         |       |            |              |          |                |
| 6 2-Chlorophenol                | 1.10837   | 1.32914   | 1.44422 | 1.43237 | 1.41736 | 1.41293 |       |            |              |          |                |
|                                 | 1.32920   |           |         |         |         |         | AVRG  |            | 1.35337      |          | 8.70805        |
| 7 1,3-Dichlorobenzene           | 1.57187   | 1.55985   | 1.57470 | 1.49316 | 1.46712 | 1.42633 |       |            |              |          |                |
|                                 | 1.34729   |           |         |         |         |         | AVRG  |            | 1.49147      |          | 5.72158        |
| 9 1,4-Dichlorobenzene           | 1.45314   | 1.54123   | 1.48730 | 1.42847 | 1.53019 | 1.47903 |       |            |              |          |                |
|                                 | 1.39907   |           |         |         |         |         | AVRG  |            | 1.47406      |          | 3.50336        |
| 11 Benzyl alcohol               | 1301      | 7780      | 16429   | 50852   | 116011  | 230349  |       |            |              |          |                |
|                                 | 484604    |           |         |         |         |         | QUAD  | 0.000e+000 | 1.24916      | -0.01907 | 0.99968        |
| 12 1,2-Dichlorobenzene          | 1.45929   | 1.48510   | 1.51253 | 1.41985 | 1.39749 | 1.35338 |       |            |              |          |                |
|                                 | 1.26651   |           |         |         |         |         | AVRG  |            | 1.41345      |          | 5.95785        |
| 13 2-Methylphenol               | 0.82340   | 1.08513   | 1.23563 | 1.24645 | 1.23721 | 1.32648 |       |            |              |          |                |
|                                 | 1.17082   |           |         |         |         |         | AVRG  |            | 1.16073      |          | 14.32508       |
| 14 2,2'-oxybis(1-Chloropropane) | 0.37608   | 0.38572   | 0.40318 | 0.38053 | 0.37904 | 0.37725 |       |            |              |          |                |
|                                 | 0.36651   |           |         |         |         |         | AVRG  |            | 0.38119      |          | 2.96488        |



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| Compound                      | 0.2000000          | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | Coefficients |         |          | %RSD<br>or R^2 |
|-------------------------------|--------------------|-----------|---------|---------|---------|---------|-------|--------------|---------|----------|----------------|
|                               | Level 1            | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       | b            | m1      | m2       |                |
|                               | 20.0000            |           |         |         |         |         |       |              |         |          |                |
|                               | Level 7            |           |         |         |         |         |       |              |         |          |                |
| 15 4-Methylphenol             | 3178<br>707698     | 15637     | 36110   | 91493   | 187688  | 359229  | QUAD  | 0.000e+000   | 0.73878 | 0.00981  | 0.99993<-      |
| 16 N-Nitroso-di-n-propylamine | 0.68725<br>0.90972 | 0.81230   | 0.93937 | 0.94370 | 0.95649 | 0.93760 | AVRG  |              | 0.88378 |          | 11.24598       |
| 17 Hexachloroethane           | 0.51170<br>0.54872 | 0.54371   | 0.56585 | 0.56858 | 0.56739 | 0.56906 | AVRG  |              | 0.55357 |          | 3.81858        |
| 19 Nitrobenzene               | 0.28785<br>0.37121 | 0.36723   | 0.39649 | 0.40329 | 0.40970 | 0.39627 | AVRG  |              | 0.37601 |          | 11.16859       |
| 20 Isophorone                 | 6703<br>1166249    | 23868     | 51815   | 136718  | 291476  | 574873  | QUAD  | 0.000e+000   | 1.70036 | 0.04159  | 0.99981        |
| 21 2-Nitrophenol              | 1099<br>423415     | 4693      | 13288   | 41751   | 99495   | 200731  | QUAD  | 0.000e+000   | 5.14028 | -0.14478 | 0.99942<-      |
| 22 2,4-Dimethylphenol         | 0.28835<br>0.30889 | 0.35689   | 0.36950 | 0.36883 | 0.36093 | 0.34610 | AVRG  |              | 0.34278 |          | 9.25824        |

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| Compound                      | 0.2000000           | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b          | Coefficients |         | %RSD<br>or R^2 |
|-------------------------------|---------------------|-----------|---------|---------|---------|---------|-------|------------|--------------|---------|----------------|
|                               | Level 1             | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |            | m1           | m2      |                |
|                               | 20.0000             |           |         |         |         |         |       |            |              |         |                |
|                               | Level 7             |           |         |         |         |         |       |            |              |         |                |
| 23 Bis(2-Chloroethoxy)methane | 0.31223 <br>0.35055 | 0.40184   | 0.42080 | 0.40384 | 0.38257 | 0.37434 |       |            |              |         |                |
|                               |                     |           |         |         |         |         | AVRG  |            | 0.37802      |         | 9.76826        |
| 24 Benzoic acid               | ++++ <br>0.22926    | ++++      | 0.03673 | 0.10055 | 0.14453 | 0.16814 |       |            |              |         |                |
|                               |                     |           |         |         |         |         | AVRG  |            | 0.13584      |         | 53.22886 <-    |
| 25 2,4-Dichlorophenol         | 7177 <br>1247212    | 29846     | 68601   | 172335  | 345023  | 626659  |       |            |              |         |                |
|                               |                     |           |         |         |         |         | QUAD  | 0.000e+000 | 2.87027      | 0.18092 | 0.99990        |
| 26 1,2,4-Trichlorobenzene     | 0.40184 <br>0.34230 | 0.40986   | 0.41404 | 0.39112 | 0.38515 | 0.36749 |       |            |              |         |                |
|                               |                     |           |         |         |         |         | AVRG  |            | 0.38740      |         | 6.55763        |
| 28 Naphthalene                | 1.11970 <br>0.95888 | 1.12445   | 1.11039 | 1.07768 | 1.05481 | 1.02280 |       |            |              |         |                |
|                               |                     |           |         |         |         |         | AVRG  |            | 1.06696      |         | 5.65823        |
| 29 4-Chloroaniline            | ++++ <br>0.43678    | 0.41655   | 0.46896 | 0.47561 | 0.47633 | 0.46391 |       |            |              |         |                |
|                               |                     |           |         |         |         |         | AVRG  |            | 0.45636      |         | 5.32610        |
| 30 Hexachlorobutadiene        | 0.22747 <br>0.23805 | 0.23582   | 0.23707 | 0.23043 | 0.25949 | 0.22642 |       |            |              |         |                |
|                               |                     |           |         |         |         |         | AVRG  |            | 0.23639      |         | 4.73574        |

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| Compound                     | 0.2000000          | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b          | Coefficients |          | %RSD<br>or R^2 |
|------------------------------|--------------------|-----------|---------|---------|---------|---------|-------|------------|--------------|----------|----------------|
|                              | Level 1            | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |            | m1           | m2       |                |
|                              | 20.0000            |           |         |         |         |         |       |            |              |          |                |
|                              | Level 7            |           |         |         |         |         |       |            |              |          |                |
| 31 4-Chloro-3-methylphenol   | ++++<br>0.29826    | 0.25978   | 0.31338 | 0.32146 | 0.33194 | 0.32647 |       |            |              |          |                |
|                              |                    |           |         |         |         |         | AVRG  |            | 0.30855      |          | 8.62718        |
| 32 2-Methylnaphthalene       | 0.74313<br>0.73366 | 0.81303   | 0.81696 | 0.81209 | 0.81478 | 0.79717 |       |            |              |          |                |
|                              |                    |           |         |         |         |         | AVRG  |            | 0.79012      |          | 4.55796        |
| 33 Hexachlorocyclopentadiene | ++++<br>1088301    | 17596     | 40966   | 118187  | 262875  | 535730  |       |            |              |          |                |
|                              |                    |           |         |         |         |         | QUAD  | 0.000e+000 | 2.38320      | -0.01867 | 0.99969        |
| 34 2,4,6-Trichlorophenol     | ++++<br>0.42020    | 0.31509   | 0.37111 | 0.39839 | 0.41689 | 0.42275 |       |            |              |          |                |
|                              |                    |           |         |         |         |         | AVRG  |            | 0.39074      |          | 10.70192       |
| 35 2,4,5-Trichlorophenol     | ++++<br>0.45730    | 0.32166   | 0.38765 | 0.44507 | 0.45702 | 0.46611 |       |            |              |          |                |
|                              |                    |           |         |         |         |         | AVRG  |            | 0.42247      |          | 13.47181       |
| 37 2-Chloronaphthalene       | 1.20738<br>1.19977 | 1.26480   | 1.29399 | 1.27744 | 1.24927 | 1.24354 |       |            |              |          |                |
|                              |                    |           |         |         |         |         | AVRG  |            | 1.24803      |          | 2.78754        |
| 38 2-Nitroaniline            | ++++<br>0.33198    | 0.26511   | 0.31749 | 0.34252 | 0.35104 | 0.34483 |       |            |              |          |                |
|                              |                    |           |         |         |         |         | AVRG  |            | 0.32549      |          | 9.78235        |

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| Compound              | 0.2000000           | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b          | Coefficients |          | %RSD<br>or R^2 |
|-----------------------|---------------------|-----------|---------|---------|---------|---------|-------|------------|--------------|----------|----------------|
|                       | Level 1             | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |            | m1           | m2       |                |
|                       | 20.0000             |           |         |         |         |         |       |            |              |          |                |
|                       | Level 7             |           |         |         |         |         |       |            |              |          |                |
| 39 Dimethylphthalate  | 1.00797 <br>1.21313 | 1.27810   | 1.35274 | 1.35768 | 1.32514 | 1.27234 |       |            |              |          |                |
|                       |                     |           |         |         |         |         | AVRG  |            | 1.25816      |          | 9.65612        |
| 40 Acenaphthylene     | 1.62664 <br>1.68901 | 1.89107   | 1.99583 | 1.95439 | 1.86926 | 1.79288 |       |            |              |          |                |
|                       |                     |           |         |         |         |         | AVRG  |            | 1.83130      |          | 7.42194        |
| 41 2,6-Dinitrotoluene | ++++ <br>0.28486    | 0.26863   | 0.30060 | 0.31015 | 0.30662 | 0.29814 |       |            |              |          |                |
|                       |                     |           |         |         |         |         | AVRG  |            | 0.29483      |          | 5.26344        |
| 43 3-Nitroaniline     | ++++ <br>0.31914    | 0.24408   | 0.28553 | 0.31340 | 0.32316 | 0.32778 |       |            |              |          |                |
|                       |                     |           |         |         |         |         | AVRG  |            | 0.30218      |          | 10.63268       |
| 44 Acenaphthene       | 1.20426 <br>1.10332 | 1.20336   | 1.21378 | 1.18973 | 1.15014 | 1.14286 |       |            |              |          |                |
|                       |                     |           |         |         |         |         | AVRG  |            | 1.17249      |          | 3.50392        |
| 45 2,4-Dinitrophenol  | ++++ <br>1197739    | 3318      | 18721   | 78557   | 228510  | 533957  |       |            |              |          |                |
|                       |                     |           |         |         |         |         | QUAD  | 0.000e+000 | 5.36780      | -0.24991 | 0.99786 <-     |
| 46 Dibenzofuran       | 1.80408 <br>1.76654 | 1.92727   | 1.97188 | 1.90866 | 1.85584 | 1.82507 |       |            |              |          |                |
|                       |                     |           |         |         |         |         | AVRG  |            | 1.86562      |          | 3.93201        |

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| Compound                      | 0.2000000          | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | Coefficients |         |          | %RSD<br>or R <sup>2</sup> |
|-------------------------------|--------------------|-----------|---------|---------|---------|---------|-------|--------------|---------|----------|---------------------------|
|                               | Level 1            | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       | b            | m1      | m2       |                           |
|                               | 20.0000            |           |         |         |         |         |       |              |         |          |                           |
|                               | Level 7            |           |         |         |         |         |       |              |         |          |                           |
| 47 4-Nitrophenol              | ++++<br>432142     | 5053      | 14522   | 35594   | 96474   | 201125  | QUAD  | 0.000e+000   | 6.70533 | -0.52862 | 0.99904                   |
| 48 2,4-Dinitrotoluene         | ++++<br>0.44063    | 0.36398   | 0.41359 | 0.44499 | 0.43912 | 0.44434 | AVRG  |              | 0.42444 |          | 7.50169                   |
| 49 Fluorene                   | 1.55728<br>1.39143 | 1.65410   | 1.69104 | 1.64287 | 1.55127 | 1.51532 | AVRG  |              | 1.57190 |          | 6.48759                   |
| 50 Diethylphthalate           | 0.90890<br>1.16941 | 1.17345   | 1.26289 | 1.25775 | 1.24571 | 1.21770 | AVRG  |              | 1.17654 |          | 10.53734                  |
| 51 4-Chlorophenyl-phenylether | 0.90520<br>0.72386 | 0.88033   | 0.88126 | 0.84740 | 0.81780 | 0.79872 | AVRG  |              | 0.83637 |          | 7.43926                   |
| 52 4-Nitroaniline             | ++++<br>0.33116    | 0.22128   | 0.27946 | 0.31579 | 0.32070 | 0.32887 | AVRG  |              | 0.29954 |          | 14.24178                  |
| 53 4,6-Dinitro-2-methylphenol | ++++<br>1382965    | 16032     | 39362   | 144017  | 330606  | 670158  | QUAD  | 0.000e+000   | 7.52304 | -0.12426 | 0.99953                   |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-FEB-2023 11:39  
 End Cal Date : 28-FEB-2023 15:16  
 Quant Method : ISTD  
 Origin : Force  
 Target Version : 4.14  
 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Last Edit : 10-Mar-2023 12:04 van

| Compound                     | 0.2000000           | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b          | Coefficients |          | %RSD<br>or R <sup>2</sup> |
|------------------------------|---------------------|-----------|---------|---------|---------|---------|-------|------------|--------------|----------|---------------------------|
|                              | Level 1             | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |            | m1           | m2       |                           |
|                              | 20.0000             |           |         |         |         |         |       |            |              |          |                           |
|                              | Level 7             |           |         |         |         |         |       |            |              |          |                           |
| 54 N-Nitrosodiphenylamine    | 0.44545 <br>0.47128 | 0.52893   | 0.54502 | 0.51895 | 0.51600 | 0.49300 |       |            |              |          |                           |
|                              |                     |           |         |         |         |         | AVRG  |            | 0.50266      |          | 6.92911                   |
| 56 4-Bromophenyl-phenylether | 0.19343 <br>0.22710 | 0.21630   | 0.22365 | 0.22681 | 0.23208 | 0.22756 |       |            |              |          |                           |
|                              |                     |           |         |         |         |         | AVRG  |            | 0.22099      |          | 5.91629                   |
| 57 Hexachlorobenzene         | 0.24152 <br>0.22947 | 0.24563   | 0.25578 | 0.24316 | 0.24793 | 0.23728 |       |            |              |          |                           |
|                              |                     |           |         |         |         |         | AVRG  |            | 0.24297      |          | 3.41292                   |
| 58 Pentachlorophenol         | +++++ <br>733383    | 3531      | 13941   | 51244   | 143862  | 317169  |       |            |              |          |                           |
|                              |                     |           |         |         |         |         | QUAD  | 0.000e+000 | 8.75609      | -1.35162 | 0.99872                   |
| 60 Phenanthrene              | 1.09135 <br>0.97553 | 1.11427   | 1.11406 | 1.07898 | 1.06588 | 1.00854 |       |            |              |          |                           |
|                              |                     |           |         |         |         |         | AVRG  |            | 1.06409      |          | 4.98919                   |
| 61 Anthracene                | 0.81847 <br>1.00203 | 0.99017   | 1.05458 | 1.06453 | 1.07577 | 1.03615 |       |            |              |          |                           |
|                              |                     |           |         |         |         |         | AVRG  |            | 1.00596      |          | 8.79782                   |
| 62 Carbazole                 | 0.75873 <br>0.90508 | 0.89927   | 0.92017 | 0.86523 | 0.90991 | 0.91324 |       |            |              |          |                           |
|                              |                     |           |         |         |         |         | AVRG  |            | 0.88166      |          | 6.46930                   |

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INITIAL CALIBRATION DATA

Start Cal Date : 28-FEB-2023 11:39  
 End Cal Date : 28-FEB-2023 15:16  
 Quant Method : ISTD  
 Origin : Force  
 Target Version : 4.14  
 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Last Edit : 10-Mar-2023 12:04 van

| Compound                  | 0.2000000          | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | Coefficients |         |         | %RSD<br>or R^2 |
|---------------------------|--------------------|-----------|---------|---------|---------|---------|-------|--------------|---------|---------|----------------|
|                           | Level 1            | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       | b            | m1      | m2      |                |
|                           | 20.0000            |           |         |         |         |         |       |              |         |         |                |
|                           | Level 7            |           |         |         |         |         |       |              |         |         |                |
| 63 Di-n-butylphthalate    | 11994<br>2636158   | 52453     | 118065  | 325349  | 692339  | 1339003 | QUAD  | 0.000e+000   | 0.87744 | 0.01221 | 0.99990        |
| 64 Fluoranthene           | 1.30846<br>1.51293 | 1.49611   | 1.58043 | 1.57730 | 1.59496 | 1.55295 | AVRG  |              | 1.51759 |         | 6.53266        |
| 65 Pyrene                 | 1.43417<br>1.52448 | 1.60601   | 1.67288 | 1.63645 | 1.73931 | 1.58694 | AVRG  |              | 1.60003 |         | 6.22164        |
| 67 Butylbenzylphthalate   | 3827<br>998361     | 19811     | 45877   | 128438  | 270943  | 523743  | QUAD  | 0.000e+000   | 1.76410 | 0.05237 | 0.99985        |
| 68 Benzo(a)anthracene     | 1.25901<br>1.07272 | 1.42961   | 1.44777 | 1.42425 | 1.42069 | 1.32526 | AVRG  |              | 1.33990 |         | 10.17248       |
| 70 3,3'-Dichlorobenzidine | ++++<br>0.35886    | 0.39845   | 0.38245 | 0.35059 | 0.38984 | 0.41570 | AVRG  |              | 0.38265 |         | 6.38828        |
| 71 Chrysene               | 1.30944<br>1.16987 | 1.34003   | 1.32467 | 1.31327 | 1.30106 | 1.25700 | AVRG  |              | 1.28790 |         | 4.50909        |

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 End Cal Date : 28-FEB-2023 15:16  
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 Target Version : 4.14  
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 Method file : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Last Edit : 10-Mar-2023 12:04 van

| Compound                      | 0.2000000          | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b    | Coefficients |         | %RSD<br>or R <sup>2</sup> |         |
|-------------------------------|--------------------|-----------|---------|---------|---------|---------|-------|------|--------------|---------|---------------------------|---------|
|                               | Level 1            | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |      | m1           | m2      |                           |         |
|                               | 20.0000            |           |         |         |         |         |       |      |              |         |                           |         |
|                               | Level 7            |           |         |         |         |         |       |      |              |         |                           |         |
| 72 bis(2-Ethylhexyl)phthalate | 5298<br>1459766    | 25596     | 60745   | 178294  | 382571  | 748352  |       | QUAD | 0.000e+000   | 1.63673 | 0.01329                   | 0.99992 |
| 73 Di-n-octylphthalate        | 1.13034<br>0.96729 | 1.10877   | 1.07821 | 1.05358 | 1.03010 | 1.00398 |       | AVRG |              | 1.05318 |                           | 5.48218 |
| 74 Benzo(b)fluoranthene       | 1.19145<br>1.29870 | 1.31834   | 1.33025 | 1.30301 | 1.36433 | 1.44485 |       | AVRG |              | 1.32156 |                           | 5.77178 |
| 75 Benzo(k)fluoranthene       | 1.38154<br>1.34388 | 1.44426   | 1.49307 | 1.53943 | 1.42421 | 1.35382 |       | AVRG |              | 1.42574 |                           | 5.09257 |
| 187 Total Benzofluoranthenes  | 1.22053<br>1.23245 | 1.29838   | 1.33642 | 1.33307 | 1.31456 | 1.31402 |       | AVRG |              | 1.29278 |                           | 3.64786 |
| 76 Benzo(a)pyrene             | 0.91712<br>1.16950 | 1.07190   | 1.16228 | 1.19893 | 1.19877 | 1.21820 |       | AVRG |              | 1.13382 |                           | 9.42079 |
| 78 Indeno(1,2,3-cd)pyrene     | 1.25508<br>1.44267 | 1.37104   | 1.45858 | 1.48611 | 1.49375 | 1.48350 |       | AVRG |              | 1.42725 |                           | 6.07267 |



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 Last Edit : 10-Mar-2023 12:04 van

| Compound                  | 0.2000000           | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b          | Coefficients |         | %RSD<br>or R^2 |
|---------------------------|---------------------|-----------|---------|---------|---------|---------|-------|------------|--------------|---------|----------------|
|                           | Level 1             | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |            | m1           | m2      |                |
|                           | 20.0000             |           |         |         |         |         |       |            |              |         |                |
|                           | Level 7             |           |         |         |         |         |       |            |              |         |                |
| 79 Dibenzo(a,h)anthracene | 1.10720 <br>1.16984 | 1.18792   | 1.25899 | 1.26372 | 1.26083 | 1.23693 |       |            |              |         |                |
|                           |                     |           |         |         |         |         | AVRG  |            | 1.21221      |         | 4.90696        |
| 80 Benzo(g,h,i)perylene   | 1.13256 <br>1.31599 | 1.17986   | 1.23920 | 1.25318 | 1.28255 | 1.31035 |       |            |              |         |                |
|                           |                     |           |         |         |         |         | AVRG  |            | 1.24481      |         | 5.45879        |
| 90 N-Nitrosodimethylamine | 6020 <br>718646     | 16001     | 39573   | 108235  | 217203  | 390301  |       |            |              |         |                |
|                           |                     |           |         |         |         |         | QUAD  | 0.000e+000 | 1.21141      | 0.05745 | 0.99988        |
| 91 Aniline                | 9677 <br>1772141    | 45900     | 99495   | 251477  | 504334  | 946419  |       |            |              |         |                |
|                           |                     |           |         |         |         |         | QUAD  | 0.000e+000 | 0.52548      | 0.00723 | 0.99988        |
| 92 1,2-Diphenylhydrazine  | +++++ <br>+++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |            |              |         |                |
|                           |                     |           |         |         |         |         | AVRG  |            | 0.000e+000   |         | 0.000e+000     |
| 93 Benzidine              | +++++ <br>2174972   | 38356     | 76786   | 225245  | 591643  | 1206182 |       |            |              |         |                |
|                           |                     |           |         |         |         |         | QUAD  | 0.000e+000 | 1.53886      | 0.03474 | 0.99797        |
| 96 p-Cymene               | +++++ <br>+++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |            |              |         |                |
|                           |                     |           |         |         |         |         | AVRG  |            | 0.000e+000   |         | 0.000e+000     |

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 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Last Edit : 10-Mar-2023 12:04 van

| Compound               | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b          | Coefficients |         | %RSD<br>or R^2 |
|------------------------|-----------|-----------|---------|---------|---------|---------|-------|------------|--------------|---------|----------------|
|                        | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |            | m1           | m2      |                |
|                        | 20.0000   |           |         |         |         |         |       |            |              |         |                |
|                        | Level 7   |           |         |         |         |         |       |            |              |         |                |
| 97 Caffeine            | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |            |              |         |                |
|                        | +++++     |           |         |         |         |         | AVRG  |            | 0.000e+000   |         | 0.000e+000     |
| 98 Retene              | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |            |              |         |                |
|                        | +++++     |           |         |         |         |         | AVRG  |            | 0.000e+000   |         | 0.000e+000 <-  |
| 99 Perylene            | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |            |              |         |                |
|                        | +++++     |           |         |         |         |         | AVRG  |            | 0.000e+000   |         | 0.000e+000 <-  |
| 100 3-beta-Coprostanol | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |            |              |         |                |
|                        | +++++     |           |         |         |         |         | AVRG  |            | 0.000e+000   |         | 0.000e+000 <-  |
| 101 Cholesterol        | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |            |              |         |                |
|                        | +++++     |           |         |         |         |         | AVRG  |            | 0.000e+000   |         | 0.000e+000 <-  |
| 102 beta-Sitosterol    | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |            |              |         |                |
|                        | +++++     |           |         |         |         |         | AVRG  |            | 0.000e+000   |         | 0.000e+000     |
| 103 Pyridine           | +++++     | 26705     | 45270   | 152436  | 341942  | 608195  |       |            |              |         |                |
|                        | 1163730   |           |         |         |         |         | QUAD  | 0.000e+000 | 0.41087      | 0.00738 | 0.99949 <-     |

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 Method file : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Last Edit : 10-Mar-2023 12:04 van

| Compound                      | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|-------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
|                               | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                               | 20.0000   |           |         |         |         |         |       |   |              |    |                |
|                               | Level 7   |           |         |         |         |         |       |   |              |    |                |
| 188 2,6-Dichlorophenol        | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                               | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 189 N-Nitrosomethylethylamine | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                               | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| \$ 1 2-Fluorophenol           | 0.76858   | 1.02791   | 1.08020 | 1.18847 | 1.21288 | 1.20155 |       |   |              |    |                |
|                               | 1.11269   |           |         |         |         |         | AVRG  |   | 1.08461      |    | 14.32370       |
| \$ 137 d8-1,4-Dioxane         | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                               | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| \$ 2 Phenol-d5                | 1.11605   | 1.43700   | 1.64939 | 1.68069 | 1.69960 | 1.66509 |       |   |              |    |                |
|                               | 1.53155   |           |         |         |         |         | AVRG  |   | 1.53991      |    | 13.60357       |
| \$ 5 2-Chlorophenol-d4        | 1.15017   | 1.24759   | 1.31556 | 1.33040 | 1.42501 | 1.38740 |       |   |              |    |                |
|                               | 1.30960   |           |         |         |         |         | AVRG  |   | 1.30939      |    | 6.90884        |
| \$ 10 1,2-Dichlorobenzene-d4  | 1.06844   | 1.02134   | 1.03141 | 0.98802 | 0.96646 | 0.94220 |       |   |              |    |                |
|                               | 0.88244   |           |         |         |         |         | AVRG  |   | 0.98576      |    | 6.29929        |

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 Target Version : 4.14  
 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Last Edit : 10-Mar-2023 12:04 van

| Compound                   | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b          | Coefficients |          | %RSD<br>or R <sup>2</sup> |
|----------------------------|-----------|-----------|---------|---------|---------|---------|-------|------------|--------------|----------|---------------------------|
|                            | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |            | m1           | m2       |                           |
|                            | 20.0000   |           |         |         |         |         |       |            |              |          |                           |
|                            | Level 7   |           |         |         |         |         |       |            |              |          |                           |
| \$ 18 Nitrobenzene-d5      | 0.28611   | 0.37584   | 0.40436 | 0.42023 | 0.42995 | 0.42293 |       |            |              |          |                           |
|                            | 0.39958   |           |         |         |         |         | AVRG  |            | 0.39129      |          | 12.72539                  |
| \$ 36 2-Fluorobiphenyl     | 1.57142   | 1.60913   | 1.64732 | 1.58343 | 1.52567 | 1.49619 |       |            |              |          |                           |
|                            | 1.46485   |           |         |         |         |         | AVRG  |            | 1.55686      |          | 4.14230                   |
| \$ 55 2,4,6-Tribromophenol | ++++      | 7171      | 16277   | 46515   | 102657  | 216848  |       |            |              |          |                           |
|                            | 473949    |           |         |         |         |         | QUAD  | 0.000e+000 | 4.65943      | -0.36700 | 0.99974                   |
| \$ 66 Terphenyl-d14        | 1.20646   | 1.28996   | 1.32078 | 1.28435 | 1.25094 | 1.17771 |       |            |              |          |                           |
|                            | 1.09335   |           |         |         |         |         | AVRG  |            | 1.23193      |          | 6.38857                   |
| \$ 85 p-Cresol-d4          | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |            |              |          |                           |
|                            | ++++      |           |         |         |         |         | AVRG  |            | 0.000e+000   |          | 0.000e+000                |
| \$ 86 Anthracene-d10       | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |            |              |          |                           |
|                            | ++++      |           |         |         |         |         | AVRG  |            | 0.000e+000   |          | 0.000e+000                |
| \$ 87 Fluoranthene-d10     | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |            |              |          |                           |
|                            | ++++      |           |         |         |         |         | AVRG  |            | 0.000e+000   |          | 0.000e+000                |

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 Last Edit : 10-Mar-2023 12:04 van

| Compound                        | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R <sup>2</sup> |
|---------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
|                                 | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                           |
|                                 | 20.0000   |           |         |         |         |         |       |   |              |    |                           |
|                                 | Level 7   |           |         |         |         |         |       |   |              |    |                           |
| \$ 88 Dibenz(a,h)anthracene-d14 | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                                 | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| \$ 89 Diphenyl-d10              | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                                 | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| \$ 95 D10-1-methylnaphthalene   | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                                 | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |

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 Last Edit : 10-Mar-2023 12:04 van

| Curve    | Formula                     | Units    |
|----------|-----------------------------|----------|
| Averaged | Amt = Rsp/m1                | Response |
| Quad     | Amt = b + m1*Rsp + m2*Rsp^2 | Response |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20230228.b
Inst ID: nt14.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07
FILENAME: NT1423022802 NT1423022803 NT1423022804 NT1423022805 NT1423022806 NT1423022807 NT1423022808
INJ. DATE: 28-FEB-2023 28-FEB-2023 28-FEB-2023 28-FEB-2023 28-FEB-2023 28-FEB-2023 28-FEB-2023
INJ. TIME: 11:39 12:15 12:51 13:28 14:04 14:40 15:16

Table with columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows include various chemical compounds like 2-Fluorophenol, Carbaryl, n-Decane, etc.

Reviewer 1 \_\_\_\_\_ Date: \_\_\_\_\_
Reviewer 2 \_\_\_\_\_ Date: \_\_\_\_\_

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
Batch File: \\target\share\chem3\nt14.i\20230228.b  
Inst ID: nt14.i

| Compound                     | RT01   | RT02   | RT03   | RT04   | RT05   | RT06   | RT07   | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 148 Dieldrin                 | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 47.281   | 44.281-50.281 | +++++  | +++++   |
| 149 TCMX                     | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 43.387   | 40.387-46.387 | +++++  | +++++   |
| 150 DCBP                     | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 50.989   | 47.989-53.989 | +++++  | +++++   |
| 138 Chlorobenzilate          | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 67.733   | 64.733-70.733 | +++++  | +++++   |
| 139 Isodrin                  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 65.067   | 62.067-68.067 | +++++  | +++++   |
| 140 Diallate A               | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 65.487   | 62.487-68.487 | +++++  | +++++   |
| 141 Diallate B               | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 65.487   | 62.487-68.487 | +++++  | +++++   |
| 142 1,2-Dibromo-3-Chloropr   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 49.917   | 46.917-52.917 | +++++  | +++++   |
| 135 2,3,5,6-Tetrachlorophe   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 16.383   | 13.383-19.383 | +++++  | +++++   |
| 136 2,3,4,5-tetrachlorophe   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 39.317   | 36.317-42.317 | +++++  | +++++   |
| 137 d8-1,4-Dioxane           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 2.445    | 0.000-5.445   | +++++  | +++++   |
| * 134 Di-n-octylphthalate-d4 | 23.491 | 23.484 | 23.484 | 23.484 | 23.476 | 23.476 | 23.476 | 23.476   | 20.476-26.476 | 23.482 | 0.006   |
| 133 Butylatedhydroxytoluen   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 15.571   | 12.571-18.571 | +++++  | +++++   |
| 132 3,6-Dimethylphenanthre   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 65.450   | 62.450-68.450 | +++++  | +++++   |
| 131 1-Methylphenanthrene     | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 64.400   | 61.400-67.400 | +++++  | +++++   |
| 130 Dibenzothiophene         | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 62.100   | 59.100-65.100 | +++++  | +++++   |
| 129 1-Methylfluorene         | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 54.912   | 51.912-57.912 | +++++  | +++++   |
| 128 N-Hexadecane             | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 54.212   | 51.212-57.212 | +++++  | +++++   |
| 127 2-Isopropylaphthalene    | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 57.650   | 54.650-60.650 | +++++  | +++++   |
| 126 N-Tetradecane            | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 56.750   | 53.750-59.750 | +++++  | +++++   |
| 144 alpha-Terpineol          | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 11.447   | 8.447-14.447  | +++++  | +++++   |
| 125 Safrole                  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 52.166   | 49.166-55.166 | +++++  | +++++   |



ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
Batch File: \\target\share\chem3\nt14.i\20230228.b  
Inst ID: nt14.i

| Compound                   | RT01   | RT02   | RT03   | RT04   | RT05   | RT06   | RT07   | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 124 3,4-Dimethylphenol     | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 50.617   | 47.617-53.617 | +++++  | +++++   |
| 123 Acetophenone           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 10.252   | 7.252-13.252  | +++++  | +++++   |
| 122 Furfuraldehyde         | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 43.467   | 40.467-46.467 | +++++  | +++++   |
| 143 1,4-Dioxane            | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 2.697    | 0.000-5.697   | +++++  | +++++   |
| 121 Quinoline              | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 54.500   | 51.500-57.500 | +++++  | +++++   |
| 120 2,3,4,6-Tetrachlorophe | 15.005 | 14.997 | 14.997 | 14.998 | 14.997 | 15.006 | 15.029 | 15.029   | 12.029-18.029 | 15.004 | 0.011   |
| 178 2-Benzyl-4-Chloropheno | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 18.963   | 15.963-21.963 | +++++  | +++++   |
| 119 7,12-Dimethylbenz(a)an | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 47.069   | 44.069-50.069 | +++++  | +++++   |
| 118 Triphenyl Phosphate    | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 21.215   | 18.215-24.215 | +++++  | +++++   |
| 117 Butyl Diphenyl Phospha | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 16.761   | 13.761-19.761 | +++++  | +++++   |
| 116 Dibutyl Phenyl Phospha | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 18.747   | 15.747-21.747 | +++++  | +++++   |
| 115 Tributyl Phosphate     | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 16.923   | 13.923-19.923 | +++++  | +++++   |
| 114 Beta-Pinene            | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 48.950   | 45.950-51.950 | +++++  | +++++   |
| 113 Diphenyl Oxide         | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 14.341   | 11.341-17.341 | +++++  | +++++   |
| 112 Biphenyl               | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 14.085   | 11.085-17.085 | +++++  | +++++   |
| 111 Azobenzene (1,2-DP-Hyd | 15.708 | 15.693 | 15.685 | 15.677 | 15.677 | 15.678 | 15.678 | 15.678   | 12.678-18.678 | 15.685 | 0.012   |
| 110 Tetrachloroguaiacol    | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 17.140   | 14.140-20.140 | +++++  | +++++   |
| 109 3,4,5-Trichloroguaiaco | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 15.070   | 12.070-18.070 | +++++  | +++++   |
| 181 3,4,6-Trichloroguaiaco | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 15.232   | 12.232-18.232 | +++++  | +++++   |
| 108 4,5,6-Trichloroguaiaco | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 16.374   | 13.374-19.374 | +++++  | +++++   |
| 184 3,4-Dichloroguaiacol   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 13.120   | 10.120-16.120 | +++++  | +++++   |
| 107 4,5-Dichloroguaiacol   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 14.096   | 11.096-17.096 | +++++  | +++++   |
| 182 4,6-Dichloroguaiacol   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 14.096   | 11.096-17.096 | +++++  | +++++   |
| 185 4-Chloroguaiacol       | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 11.735   | 8.735-14.735  | +++++  | +++++   |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
Batch File: \\target\share\chem3\nt14.i\20230228.b  
Inst ID: nt14.i

| Compound                   | RT01   | RT02   | RT03   | RT04   | RT05   | RT06   | RT07   | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 106 Guaiacol               | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 9.243    | 6.243-12.243  | +++++  | +++++   |
| 105 1-methylnaphthalene    | 12.321 | 12.321 | 12.313 | 12.313 | 12.313 | 12.313 | 12.313 | 12.313   | 9.313-15.313  | 12.315 | 0.004   |
| 151 1,2,4,5-Tetrachloroben | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 11.499   | 8.499-14.499  | +++++  | +++++   |
| 152 Benzo(e)pyrene         | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 30.943   | 27.943-33.943 | +++++  | +++++   |
| 153 Chlorpyrifos           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 27.642   | 24.642-30.642 | +++++  | +++++   |
| 154 Diazinon               | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 25.953   | 22.953-28.953 | +++++  | +++++   |
| 155 Kelthane               | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 27.750   | 24.750-30.750 | +++++  | +++++   |
| 156 Methyl Parathion       | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 26.464   | 23.464-29.464 | +++++  | +++++   |
| 157 Ethyl Parathion        | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 27.099   | 24.099-30.099 | +++++  | +++++   |
| 158 Ethion                 | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 24.513   | 21.513-27.513 | +++++  | +++++   |
| 159 4-Nonylphenol          | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 25.132   | 22.132-28.132 | +++++  | +++++   |
| 160 Tetraethyl Tin         | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 19.528   | 16.528-22.528 | +++++  | +++++   |
| 161 1,2,3-Trichloronaphtha | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 36.246   | 33.246-39.246 | +++++  | +++++   |
| 162 1,2,3,4-Tetrachloronap | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 37.506   | 34.506-40.506 | +++++  | +++++   |
| 163 1,2,3,5,8-Pentachloron | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 38.893   | 35.893-41.893 | +++++  | +++++   |
| 164 1,2,3,4,6,7-Hexachloro | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 39.681   | 36.681-42.681 | +++++  | +++++   |
| 165 1,2,3,4,5,6,7-Heptachl | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 41.123   | 38.123-44.123 | +++++  | +++++   |
| 166 Octachloronaphthalene  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 42.253   | 39.253-45.253 | +++++  | +++++   |
| 167 2,2',4,4',5-Pentabromo | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 42.033   | 39.033-45.033 | +++++  | +++++   |
| \$ 2 Phenol-d5             | 7.666  | 7.650  | 7.650  | 7.642  | 7.650  | 7.651  | 7.666  | 7.666    | 4.666-10.666  | 7.654  | 0.009   |
| 3 Phenol                   | 7.689  | 7.673  | 7.665  | 7.666  | 7.666  | 7.674  | 7.681  | 7.681    | 4.681-10.681  | 7.673  | 0.009   |
| 4 Bis(2-Chloroethyl)ethe   | 7.812  | 7.805  | 7.805  | 7.797  | 7.797  | 7.797  | 7.805  | 7.805    | 4.805-10.805  | 7.803  | 0.006   |
| \$ 5 2-Chlorophenol-d4     | 7.874  | 7.866  | 7.866  | 7.866  | 7.866  | 7.867  | 7.882  | 7.882    | 4.882-10.882  | 7.870  | 0.006   |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
Batch File: \\target\share\chem3\nt14.i\20230228.b  
Inst ID: nt14.i

| Compound                     | RT01   | RT02   | RT03   | RT04   | RT05   | RT06   | RT07   | EXPEC RT | RT WINDOW    | AVG RT | STD DEV |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|----------|--------------|--------|---------|
| 6 2-Chlorophenol             | 7.905  | 7.897  | 7.897  | 7.890  | 7.897  | 7.898  | 7.905  | 7.905    | 4.905-10.905 | 7.898  | 0.005   |
| 7 1,3-Dichlorobenzene        | 8.153  | 8.153  | 8.145  | 8.145  | 8.153  | 8.153  | 8.153  | 8.153    | 5.153-11.153 | 8.151  | 0.004   |
| * 8 1,4-Dichlorobenzene-d4   | 8.223  | 8.215  | 8.215  | 8.215  | 8.215  | 8.215  | 8.207  | 8.207    | 5.207-11.207 | 8.215  | 0.004   |
| 9 1,4-Dichlorobenzene        | 8.246  | 8.246  | 8.246  | 8.246  | 8.246  | 8.246  | 8.246  | 8.246    | 5.246-11.246 | 8.246  | 0.000   |
| \$ 10 1,2-Dichlorobenzene-d4 | 8.572  | 8.564  | 8.564  | 8.564  | 8.564  | 8.564  | 8.572  | 8.572    | 5.572-11.572 | 8.566  | 0.004   |
| 11 Benzyl alcohol            | 8.525  | 8.517  | 8.517  | 8.517  | 8.525  | 8.549  | 8.689  | 8.689    | 5.689-11.689 | 8.549  | 0.063   |
| 12 1,2-Dichlorobenzene       | 8.595  | 8.595  | 8.587  | 8.587  | 8.595  | 8.595  | 8.595  | 8.595    | 5.595-11.595 | 8.593  | 0.004   |
| 13 2-Methylphenol            | 8.766  | 8.758  | 8.758  | 8.758  | 8.758  | 8.766  | 8.774  | 8.774    | 5.774-11.774 | 8.763  | 0.006   |
| 14 2,2'-oxybis(1-Chloropr    | 8.820  | 8.812  | 8.812  | 8.805  | 8.805  | 8.813  | 8.813  | 8.813    | 5.813-11.813 | 8.811  | 0.005   |
| 15 4-Methylphenol            | 9.053  | 9.038  | 9.030  | 9.030  | 9.030  | 9.038  | 9.069  | 9.069    | 6.069-12.069 | 9.041  | 0.015   |
| 16 N-Nitroso-di-n-propyla    | 9.100  | 9.076  | 9.069  | 9.069  | 9.069  | 9.069  | 9.077  | 9.077    | 6.077-12.077 | 9.075  | 0.011   |
| 17 Hexachloroethane          | 9.170  | 9.170  | 9.169  | 9.170  | 9.170  | 9.170  | 9.162  | 9.162    | 6.162-12.162 | 9.169  | 0.003   |
| \$ 18 Nitrobenzene-d5        | 9.317  | 9.309  | 9.309  | 9.302  | 9.309  | 9.310  | 9.317  | 9.317    | 6.317-12.317 | 9.310  | 0.005   |
| 19 Nitrobenzene              | 9.356  | 9.340  | 9.340  | 9.340  | 9.340  | 9.341  | 9.356  | 9.356    | 6.356-12.356 | 9.345  | 0.008   |
| 20 Isophorone                | 9.829  | 9.806  | 9.790  | 9.790  | 9.790  | 9.791  | 9.806  | 9.806    | 6.806-12.806 | 9.800  | 0.015   |
| 21 2-Nitrophenol             | 9.969  | 9.961  | 9.961  | 9.961  | 9.969  | 9.977  | 9.992  | 9.992    | 6.992-12.992 | 9.970  | 0.012   |
| 22 2,4-Dimethylphenol        | 10.077 | 10.062 | 10.054 | 10.054 | 10.054 | 10.054 | 10.062 | 10.062   | 7.062-13.062 | 10.060 | 0.009   |
| 23 Bis(2-Chloroethoxy)met    | 10.256 | 10.248 | 10.240 | 10.240 | 10.240 | 10.248 | 10.256 | 10.256   | 7.256-13.256 | 10.247 | 0.007   |
| 24 Benzoic acid              | 10.542 | 10.434 | 10.356 | 10.302 | 10.665 | +++++  | +++++  | 10.665   | 7.665-13.665 | 10.460 | 0.146   |
| 25 2,4-Dichlorophenol        | 10.434 | 10.426 | 10.418 | 10.418 | 10.418 | 10.426 | 10.442 | 10.442   | 7.442-13.442 | 10.426 | 0.009   |
| 26 1,2,4-Trichlorobenzene    | 10.596 | 10.596 | 10.588 | 10.588 | 10.588 | 10.588 | 10.589 | 10.589   | 7.589-13.589 | 10.590 | 0.004   |
| * 27 Naphthalene-d8          | 10.673 | 10.673 | 10.665 | 10.665 | 10.665 | 10.666 | 10.666 | 10.666   | 7.666-13.666 | 10.668 | 0.004   |
| 28 Naphthalene               | 10.719 | 10.712 | 10.704 | 10.704 | 10.704 | 10.704 | 10.704 | 10.704   | 7.704-13.704 | 10.707 | 0.006   |
| 29 4-Chloroaniline           | 10.881 | 10.874 | 10.866 | 10.866 | 10.866 | 10.874 | 10.890 | 10.890   | 7.890-13.890 | 10.874 | 0.009   |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
Batch File: \\target\share\chem3\nt14.i\20230228.b  
Inst ID: nt14.i

| Compound                  | RT01   | RT02   | RT03   | RT04   | RT05   | RT06   | RT07   | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 30 Hexachlorobutadiene    | 11.090 | 11.082 | 11.082 | 11.082 | 11.082 | 11.083 | 11.083 | 11.083   | 8.083-14.083  | 11.084 | 0.003   |
| 31 4-Chloro-3-methylpheno | 11.872 | 11.856 | 11.856 | 11.849 | 11.849 | 11.857 | 11.872 | 11.872   | 8.872-14.872  | 11.859 | 0.010   |
| 32 2-Methylnaphthalene    | 12.104 | 12.104 | 12.096 | 12.096 | 12.096 | 12.097 | 12.097 | 12.097   | 9.097-15.097  | 12.098 | 0.004   |
| 33 Hexachlorocyclopentadi | 12.576 | 12.568 | 12.568 | 12.568 | 12.568 | 12.561 | 12.561 | 12.561   | 9.561-15.561  | 12.567 | 0.005   |
| 34 2,4,6-Trichlorophenol  | 12.746 | 12.739 | 12.731 | 12.731 | 12.731 | 12.731 | 12.747 | 12.747   | 9.747-15.747  | 12.736 | 0.007   |
| 35 2,4,5-Trichlorophenol  | 12.816 | 12.808 | 12.800 | 12.801 | 12.808 | 12.809 | 12.832 | 12.832   | 9.832-15.832  | 12.810 | 0.011   |
| 36 2-Fluorobiphenyl       | 12.901 | 12.893 | 12.893 | 12.886 | 12.886 | 12.886 | 12.894 | 12.894   | 9.894-15.894  | 12.891 | 0.006   |
| 37 2-Chloronaphthalene    | 13.087 | 13.079 | 13.079 | 13.079 | 13.079 | 13.079 | 13.079 | 13.079   | 10.079-16.079 | 13.080 | 0.003   |
| 38 2-Nitroaniline         | 13.389 | 13.373 | 13.365 | 13.358 | 13.358 | 13.366 | 13.373 | 13.373   | 10.373-16.373 | 13.369 | 0.011   |
| 39 Dimethylphthalate      | 13.838 | 13.822 | 13.814 | 13.807 | 13.807 | 13.807 | 13.815 | 13.815   | 10.815-16.815 | 13.815 | 0.011   |
| 40 Acenaphthylene         | 13.946 | 13.938 | 13.938 | 13.931 | 13.930 | 13.931 | 13.939 | 13.939   | 10.939-16.939 | 13.936 | 0.006   |
| 41 2,6-Dinitrotoluene     | 13.969 | 13.946 | 13.938 | 13.938 | 13.930 | 13.931 | 13.939 | 13.939   | 10.939-16.939 | 13.942 | 0.013   |
| 42 Acenaphthene-d10       | 14.263 | 14.255 | 14.248 | 14.248 | 14.248 | 14.248 | 14.248 | 14.248   | 11.248-17.248 | 14.251 | 0.006   |
| 43 3-Nitroaniline         | 14.248 | 14.224 | 14.217 | 14.209 | 14.209 | 14.217 | 14.233 | 14.233   | 11.233-17.233 | 14.222 | 0.014   |
| 44 Acenaphthene           | 14.333 | 14.317 | 14.317 | 14.310 | 14.309 | 14.310 | 14.310 | 14.310   | 11.310-17.310 | 14.315 | 0.009   |
| 45 2,4-Dinitrophenol      | 14.464 | 14.441 | 14.425 | 14.425 | 14.425 | 14.588 | +++++  | 14.425   | 11.425-17.425 | 14.462 | 0.064   |
| 46 Dibenzofuran           | 14.665 | 14.650 | 14.642 | 14.642 | 14.642 | 14.642 | 14.642 | 14.642   | 11.642-17.642 | 14.646 | 0.009   |
| 47 4-Nitrophenol          | 14.619 | 14.588 | 14.580 | 14.572 | 14.580 | 14.604 | +++++  | 14.580   | 11.580-17.580 | 14.590 | 0.017   |
| 48 2,4-Dinitrotoluene     | 14.773 | 14.750 | 14.735 | 14.727 | 14.727 | 14.727 | 14.735 | 14.735   | 11.735-17.735 | 14.739 | 0.017   |
| 49 Fluorene               | 15.369 | 15.353 | 15.345 | 15.346 | 15.346 | 15.346 | 15.346 | 15.346   | 12.346-18.346 | 15.350 | 0.009   |
| 50 Diethylphthalate       | 15.291 | 15.276 | 15.268 | 15.260 | 15.260 | 15.253 | 15.261 | 15.261   | 12.261-18.261 | 15.267 | 0.013   |
| 51 4-Chlorophenyl-phenyle | 15.376 | 15.369 | 15.361 | 15.361 | 15.361 | 15.361 | 15.361 | 15.361   | 12.361-18.361 | 15.364 | 0.006   |
| 52 4-Nitroaniline         | 15.546 | 15.500 | 15.477 | 15.469 | 15.469 | 15.469 | 15.493 | 15.493   | 12.493-18.493 | 15.489 | 0.028   |
| 53 4,6-Dinitro-2-methylph | 15.616 | 15.585 | 15.569 | 15.562 | 15.554 | 15.562 | 15.608 | 15.608   | 12.608-18.608 | 15.579 | 0.024   |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
Batch File: \\target\share\chem3\nt14.i\20230228.b  
Inst ID: nt14.i

| Compound                   | RT01   | RT02   | RT03   | RT04   | RT05   | RT06   | RT07   | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 54 N-Nitrosodiphenylamine  | 15.646 | 15.631 | 15.623 | 15.616 | 15.616 | 15.616 | 15.616 | 15.616   | 12.616-18.616 | 15.623 | 0.012   |
| 55 2,4,6-Tribromophenol    | 15.901 | 15.886 | 15.885 | 15.878 | 15.886 | 15.886 | 15.894 | 15.894   | 12.894-18.894 | 15.888 | 0.007   |
| 56 4-Bromophenyl-phenylet  | 16.364 | 16.356 | 16.356 | 16.348 | 16.348 | 16.349 | 16.349 | 16.349   | 13.349-19.349 | 16.353 | 0.006   |
| 57 Hexachlorobenzene       | 16.657 | 16.650 | 16.642 | 16.642 | 16.642 | 16.642 | 16.634 | 16.634   | 13.634-19.634 | 16.644 | 0.007   |
| 58 Pentachlorophenol       | 17.029 | 17.021 | 17.013 | 17.013 | 17.021 | 17.037 | +++++  | 17.021   | 14.021-20.021 | 17.022 | 0.009   |
| 59 Phenanthrene-d10        | 17.269 | 17.261 | 17.253 | 17.253 | 17.253 | 17.254 | 17.246 | 17.246   | 14.246-20.246 | 17.256 | 0.007   |
| 60 Phenanthrene            | 17.323 | 17.307 | 17.300 | 17.300 | 17.300 | 17.300 | 17.300 | 17.300   | 14.300-20.300 | 17.304 | 0.009   |
| 61 Anthracene              | 17.408 | 17.400 | 17.392 | 17.393 | 17.393 | 17.393 | 17.393 | 17.393   | 14.393-20.393 | 17.396 | 0.006   |
| 62 Carbazole               | 17.756 | 17.748 | 17.741 | 17.741 | 17.741 | 17.741 | 17.749 | 17.749   | 14.749-20.749 | 17.745 | 0.006   |
| 63 Di-n-butylphthalate     | 18.615 | 18.607 | 18.599 | 18.600 | 18.599 | 18.600 | 18.600 | 18.600   | 15.600-21.600 | 18.603 | 0.006   |
| 64 Fluoranthene            | 19.737 | 19.729 | 19.721 | 19.721 | 19.721 | 19.722 | 19.722 | 19.722   | 16.722-22.722 | 19.725 | 0.006   |
| 65 Pyrene                  | 20.170 | 20.155 | 20.147 | 20.147 | 20.147 | 20.147 | 20.147 | 20.147   | 17.147-23.147 | 20.151 | 0.009   |
| 66 Terphenyl-d14           | 20.495 | 20.487 | 20.480 | 20.480 | 20.480 | 20.480 | 20.480 | 20.480   | 17.480-23.480 | 20.483 | 0.006   |
| 67 Butylbenzylphthalate    | 21.455 | 21.455 | 21.447 | 21.448 | 21.448 | 21.448 | 21.448 | 21.448   | 18.448-24.448 | 21.450 | 0.004   |
| 68 Benzo(a)anthracene      | 22.361 | 22.353 | 22.346 | 22.338 | 22.338 | 22.338 | 22.338 | 22.338   | 19.338-25.338 | 22.345 | 0.009   |
| 69 Chrysene-d12            | 22.384 | 22.377 | 22.377 | 22.369 | 22.369 | 22.369 | 22.362 | 22.362   | 19.362-25.362 | 22.372 | 0.007   |
| 70 3,3'-Dichlorobenzidine  | 22.353 | 22.338 | 22.330 | 22.330 | 22.323 | 22.323 | 22.331 | 22.331   | 19.331-25.331 | 22.333 | 0.011   |
| 71 Chrysene                | 22.439 | 22.423 | 22.415 | 22.415 | 22.408 | 22.408 | 22.416 | 22.416   | 19.416-25.416 | 22.418 | 0.011   |
| 72 bis(2-Ethylhexyl)phtha  | 22.508 | 22.508 | 22.500 | 22.501 | 22.501 | 22.501 | 22.501 | 22.501   | 19.501-25.501 | 22.503 | 0.004   |
| 73 Di-n-octylphthalate     | 23.499 | 23.499 | 23.491 | 23.492 | 23.491 | 23.492 | 23.484 | 23.484   | 20.484-26.484 | 23.493 | 0.005   |
| 74 Benzo(b)fluoranthene    | 24.126 | 24.111 | 24.111 | 24.103 | 24.103 | 24.103 | 24.103 | 24.103   | 21.103-27.103 | 24.109 | 0.009   |
| 75 Benzo(k)fluoranthene    | 24.165 | 24.150 | 24.142 | 24.142 | 24.134 | 24.142 | 24.134 | 24.134   | 21.134-27.134 | 24.144 | 0.011   |
| 187 Total Benzofluoranthen | 24.165 | 24.150 | 24.142 | 24.103 | 24.103 | 24.103 | 24.103 | 24.103   | 21.103-27.103 | 24.124 | 0.027   |
| 76 Benzo(a)pyrene          | 24.645 | 24.630 | 24.630 | 24.622 | 24.622 | 24.622 | 24.622 | 24.622   | 21.622-27.622 | 24.627 | 0.009   |

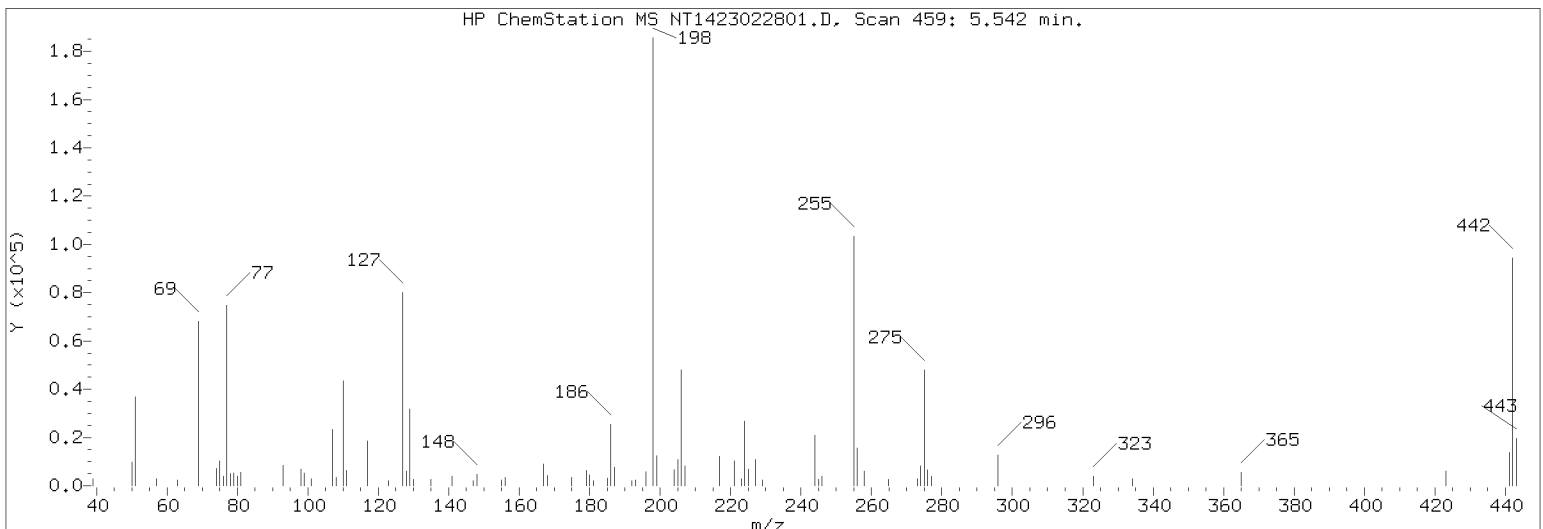
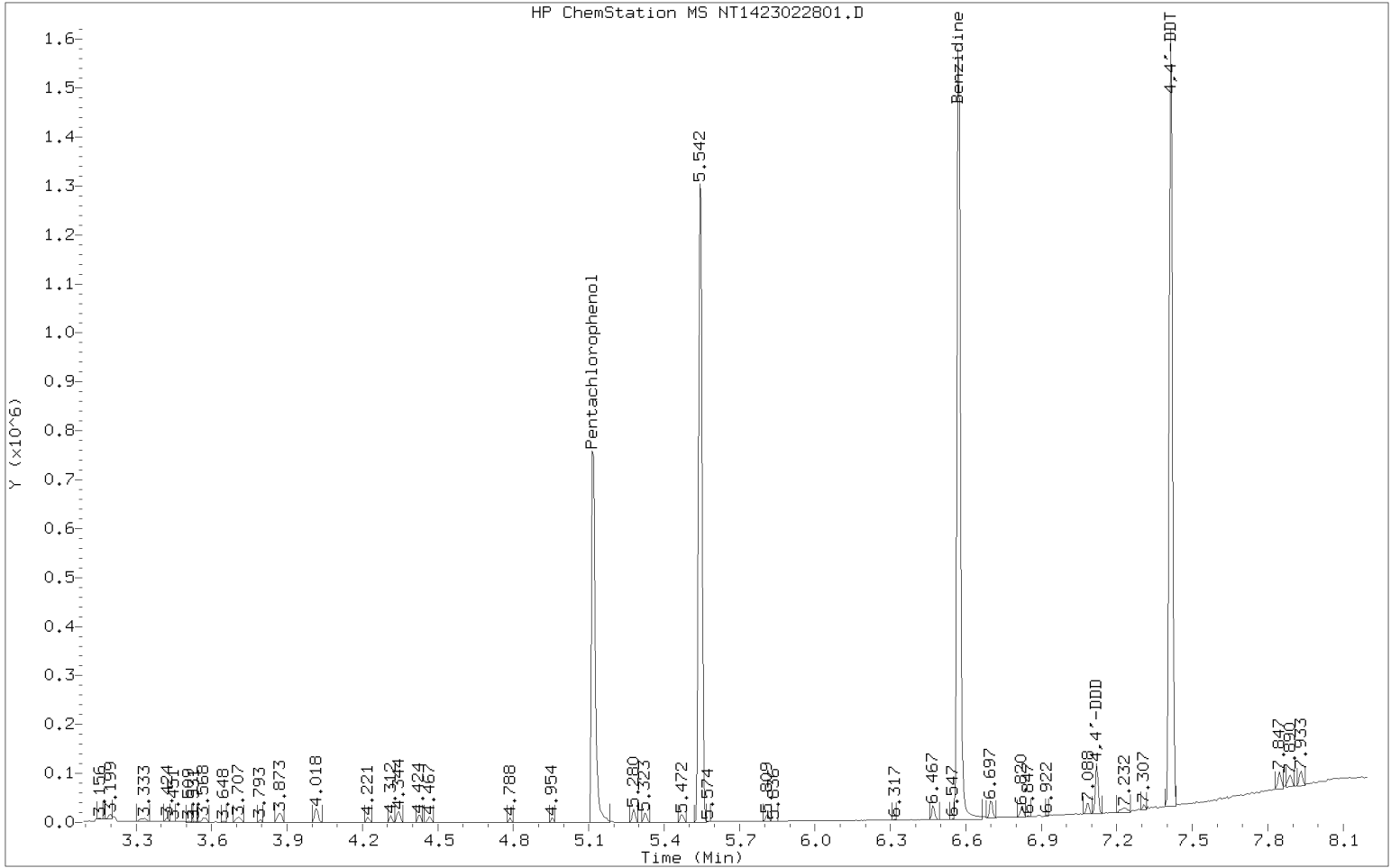
ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
Batch File: \\target\share\chem3\nt14.i\20230228.b  
Inst ID: nt14.i

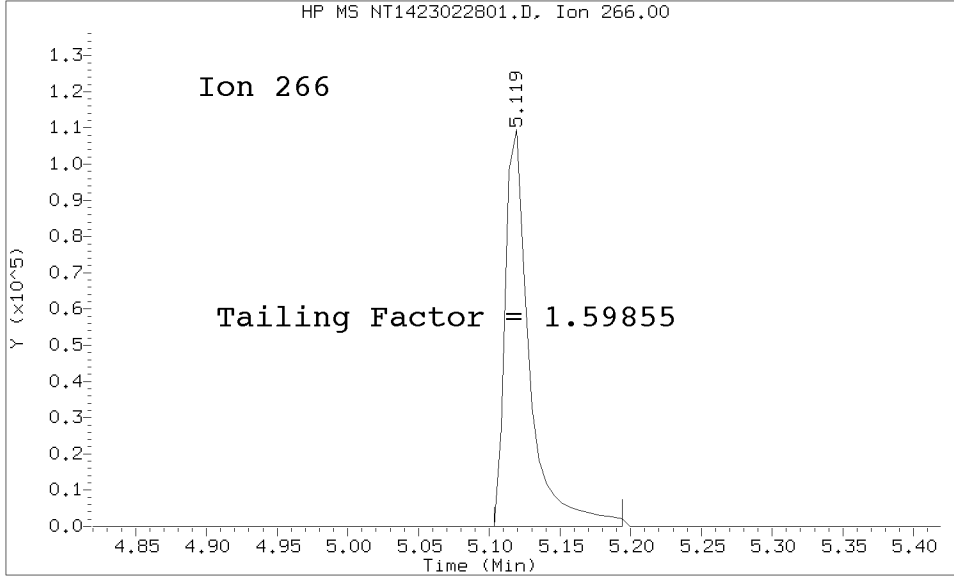
| Compound                      | RT01   | RT02   | RT03   | RT04   | RT05   | RT06   | RT07   | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|-------------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| * 77 Perylene-d12             | 24.730 | 24.723 | 24.722 | 24.715 | 24.715 | 24.715 | 24.715 | 24.715   | 21.715-27.715 | 24.719 | 0.006   |
| 78 Indeno(1,2,3-cd)pyrene     | 26.832 | 26.808 | 26.800 | 26.793 | 26.785 | 26.785 | 26.793 | 26.793   | 23.793-29.793 | 26.800 | 0.016   |
| 79 Dibenzo(a,h)anthracene     | 26.855 | 26.824 | 26.816 | 26.808 | 26.801 | 26.801 | 26.801 | 26.801   | 23.801-29.801 | 26.815 | 0.020   |
| 80 Benzo(g,h,i)perylene       | 27.453 | 27.414 | 27.406 | 27.391 | 27.383 | 27.383 | 27.391 | 27.391   | 24.391-30.391 | 27.403 | 0.025   |
| \$ 85 p-Cresol-d4             | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 51.633   | 48.633-54.633 | +++++  | +++++   |
| \$ 86 Anthracene-d10          | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 63.533   | 60.533-66.533 | +++++  | +++++   |
| \$ 87 Fluoranthene-d10        | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 60.273   | 57.273-63.273 | +++++  | +++++   |
| \$ 88 Dibenzo(a,h)anthracene- | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 78.600   | 75.600-81.600 | +++++  | +++++   |
| \$ 89 Diphenyl-d10            | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 50.841   | 47.841-53.841 | +++++  | +++++   |
| 90 N-Nitrosodimethylamine     | 4.027  | 4.012  | 4.004  | 3.997  | 4.004  | 4.012  | 4.105  | 4.105    | 1.105-7.105   | 4.023  | 0.037   |
| 91 Aniline                    | 7.720  | 7.704  | 7.696  | 7.697  | 7.696  | 7.705  | 7.735  | 7.735    | 4.735-10.735  | 7.708  | 0.015   |
| 92 1,2-Diphenylhydrazine      | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 56.160   | 53.160-59.160 | +++++  | +++++   |
| 93 Benzidine                  | 20.015 | 20.008 | 20.000 | 20.000 | 20.008 | 20.008 | 20.016 | 20.016   | 17.016-23.016 | 20.008 | 0.006   |
| \$ 95 D10-1-methylnaphthalen  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 52.075   | 49.075-55.075 | +++++  | +++++   |
| 96 p-Cymene                   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 49.250   | 46.250-52.250 | +++++  | +++++   |
| 97 Caffeine                   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 61.202   | 58.202-64.202 | +++++  | +++++   |
| 98 Retene                     | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 18.787   | 15.787-21.787 | +++++  | +++++   |
| 99 Perylene                   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 24.361   | 21.361-27.361 | +++++  | +++++   |
| 100 3-beta-Coprostanol        | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 25.411   | 22.411-28.411 | +++++  | +++++   |
| 101 Cholesterol               | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 26.023   | 23.023-29.023 | +++++  | +++++   |
| 102 beta-Sitosterol           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 79.550   | 76.550-82.550 | +++++  | +++++   |
| 103 Pyridine                  | 4.012  | 4.004  | 4.012  | 4.012  | 4.027  | 4.089  | +++++  | 4.027    | 1.027-7.027   | 4.026  | 0.032   |
| 188 2,6-Dichlorophenol        | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 11.874   | 8.874-14.874  | +++++  | +++++   |
| 189 N-Nitrosomethylethylam    | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 5.818    | 2.818-8.818   | +++++  | +++++   |

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230228.b/NT1423022801.D/NT1423022801.D  
 Method Used: \20230228.b\DFTPP8270E.m Inst: nt14  
 Injection Date: 28-FEB-2023 11:26 Operator: JGR  
 Sample Info: SLB0374-TUN1 SLB0374-TUN1  
 Report Date: 03/10/2023 13:22



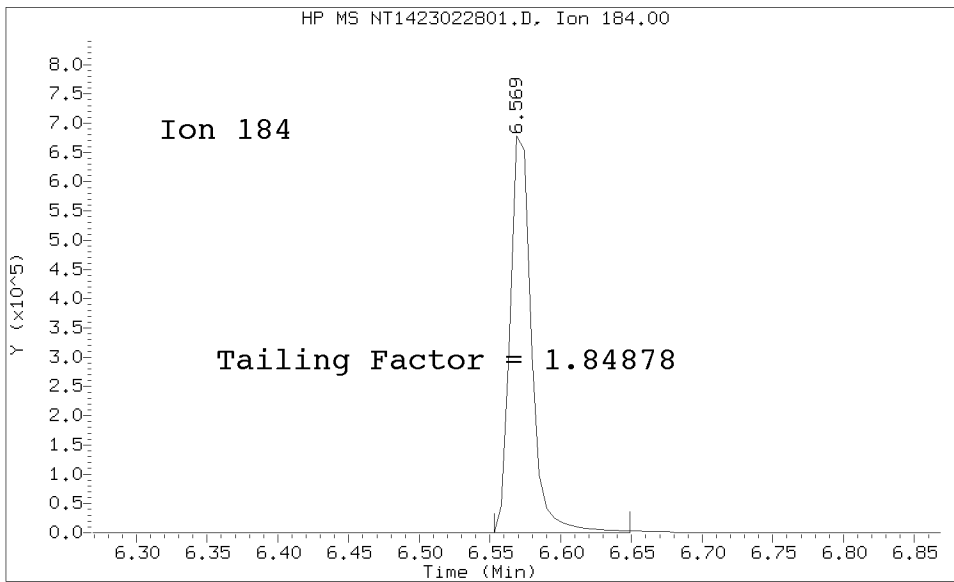
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Injection Date: 28-FEB-2023 11:26 Operator: JGR  
Sample Info: SLB0374-TUN1  
Report Date: 03/10/2023 13:22



Pentachlorophenol

=====  
Exp. RT = 5.114  
Found RT = 5.119

Tail Factor = 1.599 Maximum Allowed = 2.0



Benzidine

=====  
Exp. RT = 6.569  
Found RT = 6.569

Tail Factor = 1.849 Maximum Allowed = 2.0



8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

| Compound          | Tail Factor | Max Allowed | Test |
|-------------------|-------------|-------------|------|
| Pentachlorophenol | 1.5985490   | 2.000       | PASS |
| Benzidine         | 1.8487805   | 2.000       | PASS |

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

| Compound      | Response | %Breakdown | Max Allowed | Test |
|---------------|----------|------------|-------------|------|
| 4,4-DDT       | 329453   |            |             | N/A  |
| 4,4-DDE       | 0        | 0.0        | 20.0        | PASS |
| 4,4-DDD       | 27266    | 7.6        | 20.0        | PASS |
| 4,4-DDD + DDE | 27266    | 7.6        | 20.0        | PASS |

Tuning Sample, nt14.i/20230228.b/NT1423022801.D, \*\*\* PASSED \*\*\*

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00               |
| 68  | Less than 2.00% of mass 69         | 0.00 ( 0.00)         |
| 69  | Mass 69 relative abundance         | 36.45                |
| 70  | Less than 2.00% of mass 69         | 0.00 ( 0.00)         |
| 197 | Less than 2.00% of mass 198        | 0.00                 |
| 199 | 5.00 - 9.00% of mass 198           | 6.68                 |
| 365 | 1.00 - 100.00% of mass 198         | 3.19                 |
| 441 | Less than 150.00% of mass 443      | 8.05 ( 72.75)        |
| 442 | Less than 200.00% of mass 198      | 55.70                |
| 443 | 15.00 - 24.00% of mass 442         | 11.06 ( 19.86)       |

Data File: NT1423022801.D

Spectrum: Avg. Scans 458-460 ( 5.54), Background Scan 454

Location of Maximum: 198.00

Number of points: 81

| m/z    | Y     | m/z    | Y     | m/z    | Y      | m/z    | Y     |
|--------|-------|--------|-------|--------|--------|--------|-------|
| 39.00  | 1657  | 111.00 | 5181  | 187.00 | 6163   | 256.00 | 13097 |
| 50.00  | 8048  | 117.00 | 15552 | 192.00 | 670    | 258.00 | 5162  |
| 51.00  | 29792 | 123.00 | 734   | 193.00 | 1610   | 265.00 | 1693  |
| 57.00  | 2542  | 127.00 | 65592 | 196.00 | 4837   | 273.00 | 2065  |
| 63.00  | 796   | 128.00 | 5072  | 198.00 | 154496 | 274.00 | 7299  |
| 69.00  | 56320 | 129.00 | 25912 | 199.00 | 10325  | 275.00 | 41256 |
| 74.00  | 5861  | 130.00 | 1691  | 204.00 | 5619   | 276.00 | 5638  |
| 75.00  | 8903  | 135.00 | 1686  | 205.00 | 9289   | 277.00 | 3469  |
| 76.00  | 3254  | 141.00 | 3424  | 206.00 | 40192  | 296.00 | 10926 |
| 77.00  | 61744 | 147.00 | 749   | 207.00 | 7142   | 323.00 | 2830  |
| 78.00  | 4358  | 148.00 | 4047  | 217.00 | 10352  | 334.00 | 1934  |
| 79.00  | 4457  | 155.00 | 768   | 221.00 | 8641   | 365.00 | 4928  |
| 80.00  | 3215  | 156.00 | 2880  | 223.00 | 1846   | 372.00 | 799   |
| 81.00  | 4594  | 167.00 | 7552  | 224.00 | 22544  | 423.00 | 5393  |
| 93.00  | 7180  | 168.00 | 3743  | 225.00 | 5687   | 441.00 | 12432 |
| 98.00  | 5732  | 175.00 | 2206  | 227.00 | 9264   | 442.00 | 86056 |
| 99.00  | 4413  | 179.00 | 5289  | 229.00 | 1539   | 443.00 | 17088 |
| 101.00 | 1800  | 180.00 | 3808  | 244.00 | 17592  | 444.00 | 724   |
| 107.00 | 19032 | 181.00 | 1392  | 245.00 | 1845   |        |       |
| 108.00 | 2825  | 185.00 | 2091  | 246.00 | 3444   |        |       |
| 110.00 | 35440 | 186.00 | 21032 | 255.00 | 87912  |        |       |

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022802.D

Date: 28-FEB-2023 11:39

Client ID:

Sample Info: SLB0374-CAL7

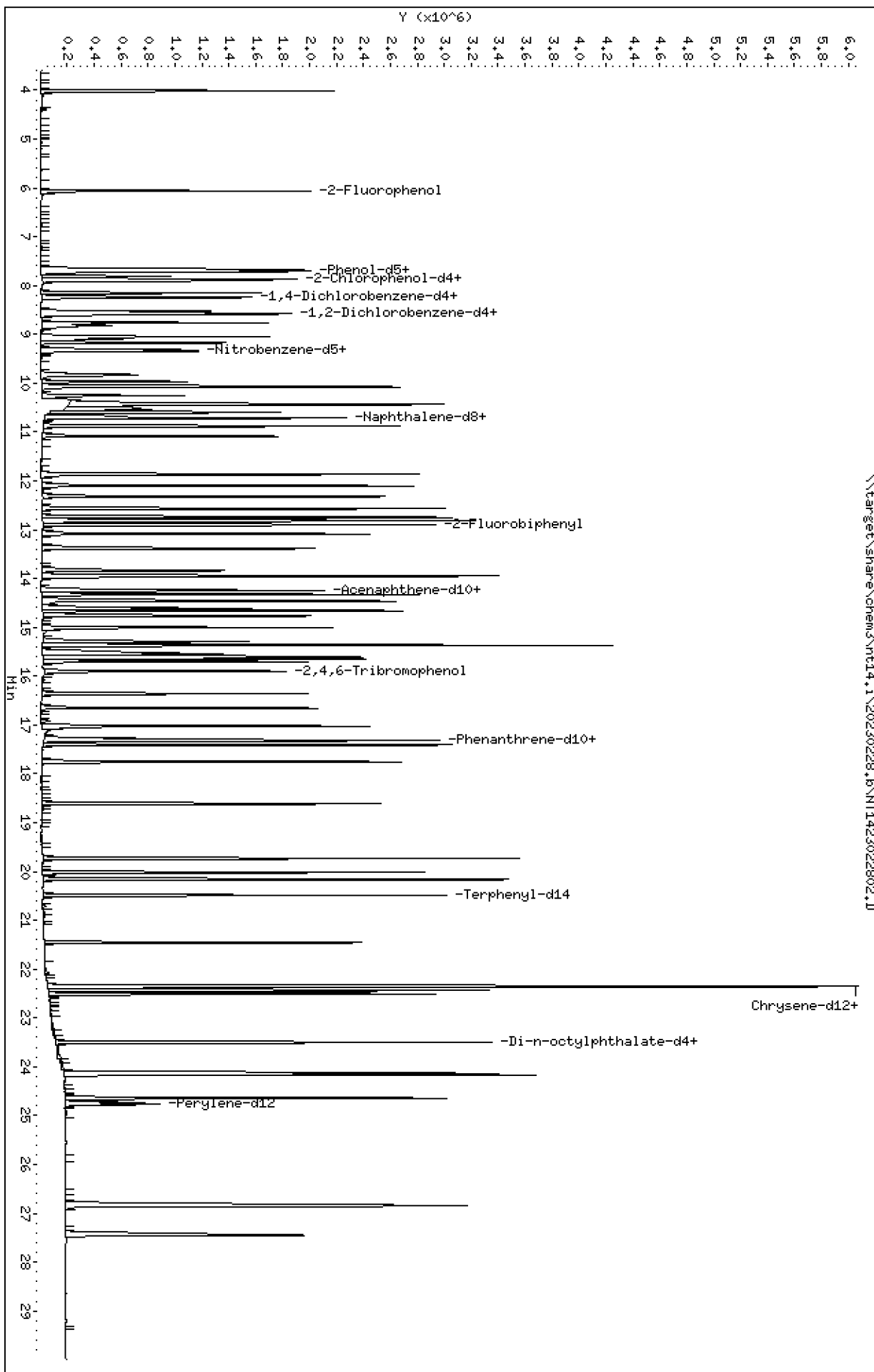
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022802.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022802.D  
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 Inj Date : 28-FEB-2023 11:39 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-CAL7  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 2 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS |           |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
|                                 |       |     |        |        |         |          | CAL-AMT | ON-COL    |
|                                 | MASS  |     |        |        |         |          | (ug/mL) | (ug/mL)   |
| \$ 1 2-Fluorophenol             | 112   |     | 6.066  | 6.128  | (0.738) | 946064   | 30.0000 | 30.78     |
| \$ 2 Phenol-d5                  | 99    |     | 7.665  | 7.665  | (0.932) | 1302204  | 30.0000 | 29.84     |
| 3 Phenol                        | 94    |     | 7.688  | 7.681  | (0.935) | 930686   | 20.0000 | 17.87     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.874  | 7.882  | (0.958) | 1113490  | 30.0000 | 30.00     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.812  | 7.805  | (0.950) | 644777   | 20.0000 | 20.00     |
| 6 2-Chlorophenol                | 128   |     | 7.905  | 7.905  | (0.961) | 753438   | 20.0000 | 19.64     |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.152  | 8.153  | (0.992) | 763691   | 20.0000 | 18.07     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.222  | 8.207  | (1.000) | 113367   | 4.00000 |           |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.245  | 8.246  | (1.003) | 793044   | 20.0000 | 18.98     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.571  | 8.572  | (1.042) | 500196   | 20.0000 | 17.90     |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.595  | 8.595  | (1.045) | 717900   | 20.0000 | 17.92     |
| 11 Benzyl alcohol               | 108   |     | 8.525  | 8.688  | (1.037) | 484604   | 20.0000 | 19.97     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.820  | 8.812  | (1.073) | 207751   | 20.0000 | 19.23 (M) |
| 13 2-Methylphenol               | 108   |     | 8.765  | 8.774  | (1.066) | 663663   | 20.0000 | 20.17     |
| 17 Hexachloroethane             | 117   |     | 9.169  | 9.162  | (1.115) | 311032   | 20.0000 | 19.82     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.099  | 9.076  | (1.107) | 515663   | 20.0000 | 20.59     |
| 15 4-Methylphenol               | 108   |     | 9.053  | 9.069  | (1.101) | 707698   | 20.0000 | 19.98     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.316  | 9.317  | (0.873) | 847349   | 20.0000 | 20.42     |
| 19 Nitrobenzene                 | 77    |     | 9.355  | 9.356  | (0.877) | 787177   | 20.0000 | 19.74     |
| 20 Isophorone                   | 82    |     | 9.829  | 9.806  | (0.921) | 1166249  | 20.0000 | 19.96 (M) |
| 21 2-Nitrophenol                | 139   |     | 9.968  | 9.992  | (0.934) | 423415   | 20.0000 | 19.95     |
| 22 2,4-Dimethylphenol           | 107   |     | 10.077 | 10.062 | (0.944) | 1310046  | 40.0000 | 36.04     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.255 | 10.256 | (0.961) | 743374   | 20.0000 | 18.55     |
| 24 Benzoic acid                 | 105   |     | 10.541 | 10.665 | (0.988) | 1944657  | 80.0000 | 135.0 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | 10.433 | 10.441 | (0.978) | 1247212  | 40.0000 | 40.02     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.595 | 10.588 | (0.993) | 725869   | 20.0000 | 17.67     |
| * 27 Naphthalene-d8             | 136   |     | 10.673 | 10.665 | (1.000) | 424117   | 4.00000 |           |
| 28 Naphthalene                  | 128   |     | 10.719 | 10.704 | (1.004) | 2033381  | 20.0000 | 17.97     |
| 29 4-Chloroaniline              | 127   |     | 10.881 | 10.889 | (1.020) | 1852444  | 40.0000 | 38.28     |
| 30 Hexachlorobutadiene          | 225   |     | 11.090 | 11.082 | (1.039) | 504805   | 20.0000 | 20.14     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.871 | 11.872 | (1.112) | 1264968  | 40.0000 | 38.67     |
| 32 2-Methylnaphthalene          | 142   |     | 12.103 | 12.096 | (1.134) | 1555789  | 20.0000 | 18.57     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.576 | 12.560 | (0.882) | 1088301  | 40.0000 | 39.91     |

| Compounds                         | QUANT SIG |        |        | AMOUNTS |          |                    |                   |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 12.746 | 12.746 | (0.894) | 1055096  | 40.0000            | 43.02             |
| 35 2,4,5-Trichlorophenol          | 196       | 12.815 | 12.831 | (0.899) | 1148251  | 40.0000            | 43.30             |
| § 36 2-Fluorobiphenyl             | 172       | 12.901 | 12.893 | (0.905) | 1839081  | 20.0000            | 18.82             |
| 37 2-Chloronaphthalene            | 162       | 13.086 | 13.079 | (0.918) | 1506287  | 20.0000            | 19.23             |
| 38 2-Nitroaniline                 | 65        | 13.388 | 13.373 | (0.939) | 833587   | 40.0000            | 40.80             |
| 39 Dimethylphthalate              | 163       | 13.837 | 13.814 | (0.970) | 1523049  | 20.0000            | 19.28             |
| 40 Acenaphthylene                 | 152       | 13.945 | 13.938 | (0.978) | 2120505  | 20.0000            | 18.45             |
| 41 2,6-Dinitrotoluene             | 165       | 13.969 | 13.938 | (0.979) | 715264   | 40.0000            | 38.65             |
| * 42 Acenaphthene-d10             | 164       | 14.263 | 14.247 | (1.000) | 251095   | 4.00000            |                   |
| 43 3-Nitroaniline                 | 138       | 14.247 | 14.232 | (0.999) | 801339   | 40.0000            | 42.24             |
| 44 Acenaphthene                   | 153       | 14.332 | 14.309 | (1.005) | 1385189  | 20.0000            | 18.82             |
| 45 2,4-Dinitrophenol              | 184       | 14.464 | 14.425 | (1.014) | 1197739  | 80.0000            | 79.67             |
| 46 Dibenzofuran                   | 168       | 14.665 | 14.642 | (1.028) | 2217853  | 20.0000            | 18.94             |
| 47 4-Nitrophenol                  | 109       | 14.618 | 14.580 | (1.025) | 432142   | 40.0000            | 39.90             |
| 48 2,4-Dinitrotoluene             | 165       | 14.773 | 14.734 | (1.036) | 1106407  | 40.0000            | 41.53             |
| 50 Diethylphthalate               | 149       | 15.291 | 15.260 | (1.072) | 1468168  | 20.0000            | 19.88             |
| 49 Fluorene                       | 166       | 15.368 | 15.345 | (1.078) | 1746904  | 20.0000            | 17.70             |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.376 | 15.361 | (1.078) | 908784   | 20.0000            | 17.31             |
| 52 4-Nitroaniline                 | 138       | 15.546 | 15.492 | (1.090) | 831530   | 40.0000            | 44.22             |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.615 | 15.608 | (0.904) | 1382965  | 80.0000            | 79.86             |
| 54 N-Nitrosodiphenylamine         | 169       | 15.646 | 15.616 | (0.906) | 1171539  | 20.0000            | 18.75             |
| § 55 2,4,6-Tribromophenol         | 330       | 15.900 | 15.893 | (1.115) | 473949   | 30.0000            | 29.95             |
| 56 4-Bromophenyl-phenylether      | 248       | 16.363 | 16.348 | (0.948) | 564536   | 20.0000            | 20.55             |
| 57 Hexachlorobenzene              | 284       | 16.657 | 16.634 | (0.965) | 570428   | 20.0000            | 18.89             |
| 58 Pentachlorophenol              | 266       | 17.028 | 17.021 | (0.986) | 733383   | 40.0000            | 39.90             |
| * 59 Phenanthrene-d10             | 188       | 17.268 | 17.245 | (1.000) | 497175   | 4.00000            |                   |
| 60 Phenanthrene                   | 178       | 17.322 | 17.300 | (1.003) | 2425053  | 20.0000            | 18.34             |
| 61 Anthracene                     | 178       | 17.407 | 17.392 | (1.008) | 2490916  | 20.0000            | 19.92             |
| 62 Carbazole                      | 167       | 17.756 | 17.748 | (1.028) | 2249912  | 20.0000            | 20.53             |
| 63 Di-n-butylphthalate            | 149       | 18.614 | 18.599 | (1.078) | 2636158  | 20.0000            | 19.98             |
| 64 Fluoranthene                   | 202       | 19.736 | 19.721 | (0.882) | 2876593  | 20.0000            | 19.94             |
| 65 Pyrene                         | 202       | 20.170 | 20.147 | (0.901) | 2898538  | 20.0000            | 19.06             |
| § 66 Terphenyl-d14                | 244       | 20.495 | 20.480 | (0.916) | 2078821  | 20.0000            | 17.75             |
| 67 Butylbenzylphthalate           | 149       | 21.455 | 21.447 | (0.958) | 998361   | 20.0000            | 19.97             |
| 68 Benzo(a)anthracene             | 228       | 22.361 | 22.338 | (0.999) | 2039604  | 20.0000            | 16.01             |
| * 69 Chrysene-d12                 | 240       | 22.384 | 22.361 | (1.000) | 380267   | 4.00000            |                   |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.353 | 22.330 | (0.999) | 2046942  | 60.0000            | 56.27             |
| 71 Chrysene                       | 228       | 22.438 | 22.415 | (1.002) | 2224319  | 20.0000            | 18.17             |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.508 | 22.500 | (0.958) | 1459766  | 20.0000            | 19.99             |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.491 | 23.476 | (1.000) | 489751   | 4.00000            |                   |
| 73 Di-n-octylphthalate            | 149       | 23.499 | 23.484 | (1.000) | 2368651  | 20.0000            | 18.37             |
| 74 Benzo(b)fluoranthene           | 252       | 24.126 | 24.103 | (0.976) | 2421791  | 20.0000            | 19.65             |
| 75 Benzo(k)fluoranthene           | 252       | 24.165 | 24.134 | (0.977) | 2506040  | 20.0000            | 18.85             |
| 76 Benzo(a)pyrene                 | 252       | 24.645 | 24.622 | (0.997) | 2180870  | 20.0000            | 20.63             |
| * 77 Perylene-d12                 | 264       | 24.730 | 24.715 | (1.000) | 372957   | 4.00000            |                   |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.831 | 26.793 | (1.085) | 2690266  | 20.0000            | 20.22             |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.854 | 26.800 | (1.086) | 2181506  | 20.0000            | 19.30             |
| 80 Benzo(g,h,i)perylene           | 276       | 27.452 | 27.391 | (1.110) | 2454031  | 20.0000            | 21.14             |
| 90 N-Nitrosodimethylamine         | 74        | 4.027  | 4.104  | (0.490) | 718646   | 40.0000            | 39.95             |
| 91 Aniline                        | 93        | 7.719  | 7.735  | (0.939) | 1772141  | 40.0000            | 39.93             |
| 93 Benzidine                      | 184       | 20.015 | 20.015 | (0.894) | 2174972  | 40.0000            | 39.75             |
| 103 Pyridine                      | 79        | 4.011  | 4.027  | (0.488) | 1163730  | 20.0000            | 19.98             |
| 105 1-methylnaphthalene           | 142       | 12.320 | 12.313 | (1.154) | 1433206  | 20.0000            | 18.58             |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.708 | 15.677 | (1.101) | 1578003  | 20.0000            | 18.61             |

| Compounds                     | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                               | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| =====                         | =====     |  | =====  | =====  | =====   | =====    | =====              |                   |
| 187 Total Benzofluoranthenes  | 252       |  | 24.165 | 24.103 | (0.977) | 4596520  | 40.0000            | 38.13             |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 15.005 | 15.029 | (1.052) | 635967   | 20.0000            | 19.96             |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023  
 Lab File ID: NT1423022802.D Calibration Time: 12:51  
 Lab Smp Id: SLB0374-CAL7  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 114351   | 57176      | 228702  | 113367 | -0.86 |
| 27 Naphthalene-d8     | 408655   | 204328     | 817310  | 424117 | 3.78  |
| 42 Acenaphthene-d10   | 254000   | 127000     | 508000  | 251095 | -1.14 |
| 59 Phenanthrene-d10   | 490626   | 245313     | 981252  | 497175 | 1.33  |
| 69 Chrysene-d12       | 390400   | 195200     | 780800  | 380267 | -2.60 |
| 134 Di-n-octylphthala | 500829   | 250415     | 1001658 | 489751 | -2.21 |
| 77 Perylene-d12       | 375675   | 187838     | 751350  | 372957 | -0.72 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.22   | 0.10  |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.67  | 0.07  |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.26  | 0.11  |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.27  | 0.09  |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.38  | 0.03  |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.49  | 0.03  |
| 77 Perylene-d12       | 24.72    | 24.22    | 25.22 | 24.73  | 0.03  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



REVIEW SUMMARY FOR FILE - NT1423022802.D

Lab ID: SLB0374-CAL7  
nt14.i, ABN.m, 28-FEB-2023 11:39

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND               |
|-------|---------|---------|------------------------|
| 1.037 | 1.059   | -0.0218 | Benzyl alcohol         |
| 0.988 | 0.000   | 0.9877  | Benzoic acid           |
| 1.014 | 0.000   | 1.0141  | 2,4-Dinitrophenol      |
| 1.025 | 0.000   | 1.0249  | 4-Nitrophenol          |
| 0.986 | 0.000   | 0.9861  | Pentachlorophenol      |
| 0.490 | 0.500   | -0.0103 | N-Nitrosodimethylamine |
| 0.488 | 0.000   | 0.4879  | Pyridine               |
| 0.738 | 0.747   | -0.0090 | 2-Fluorophenol         |

RRT check based on Ccal File: NT1423022808.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

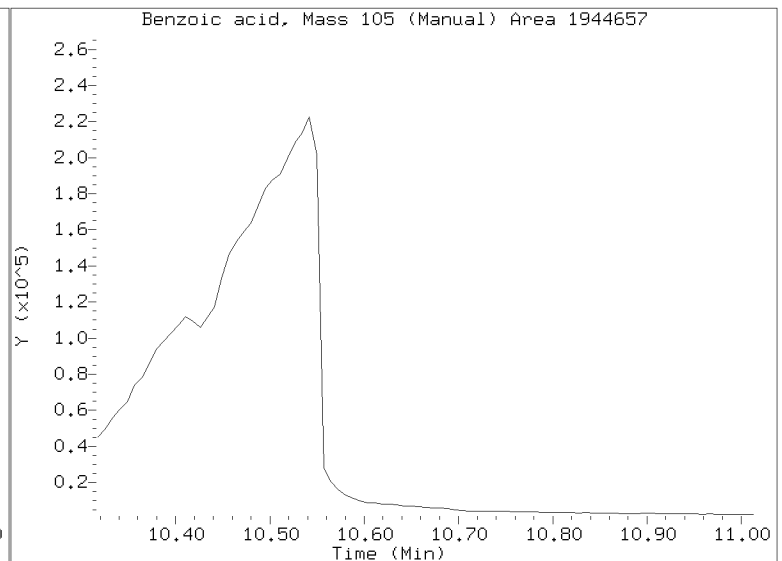
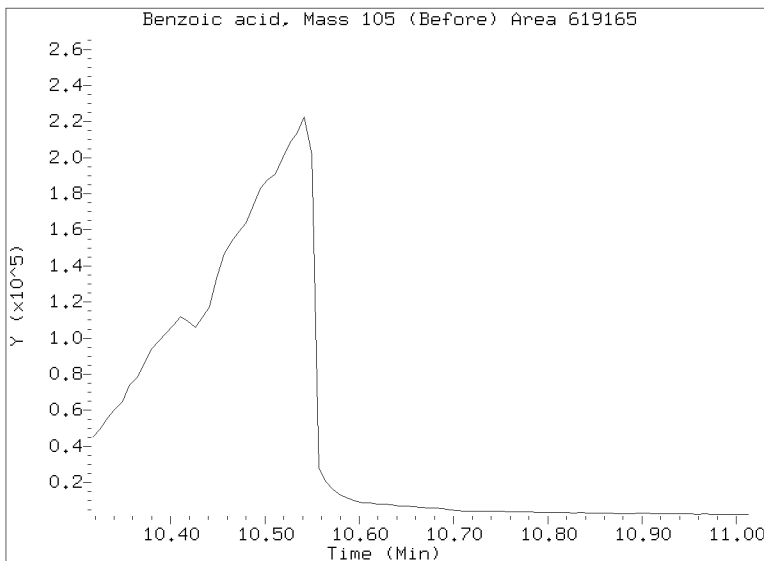
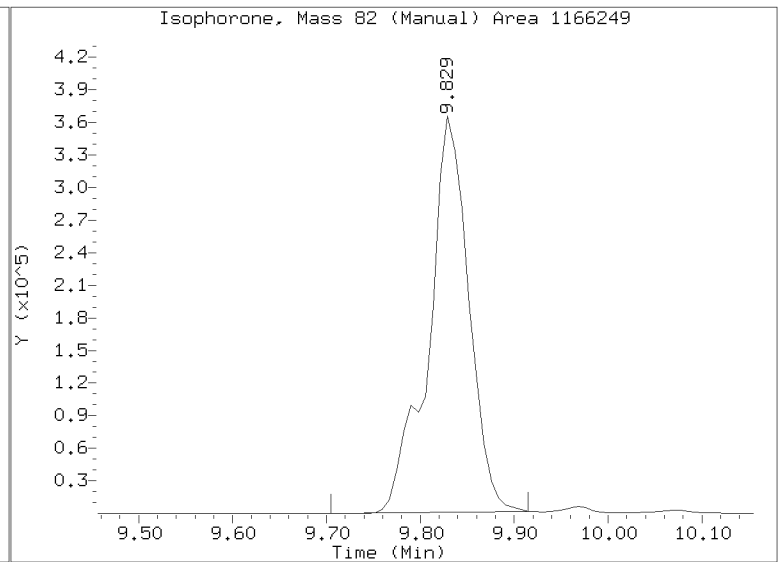
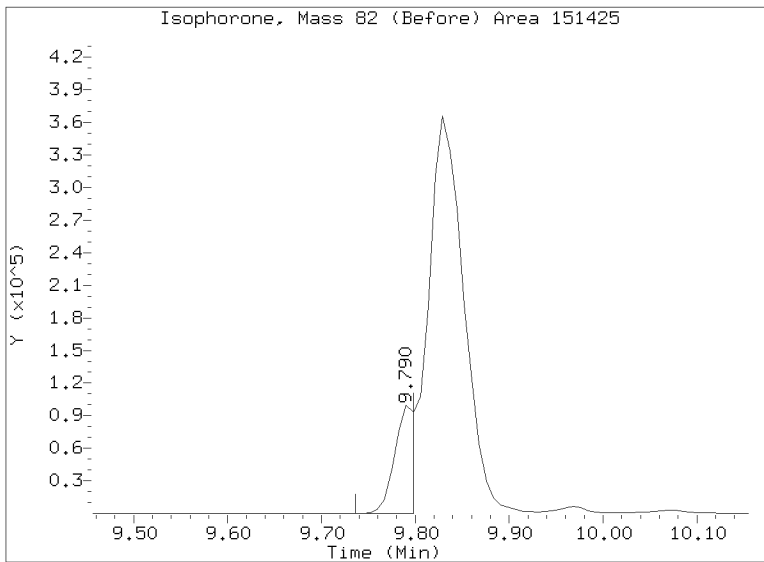
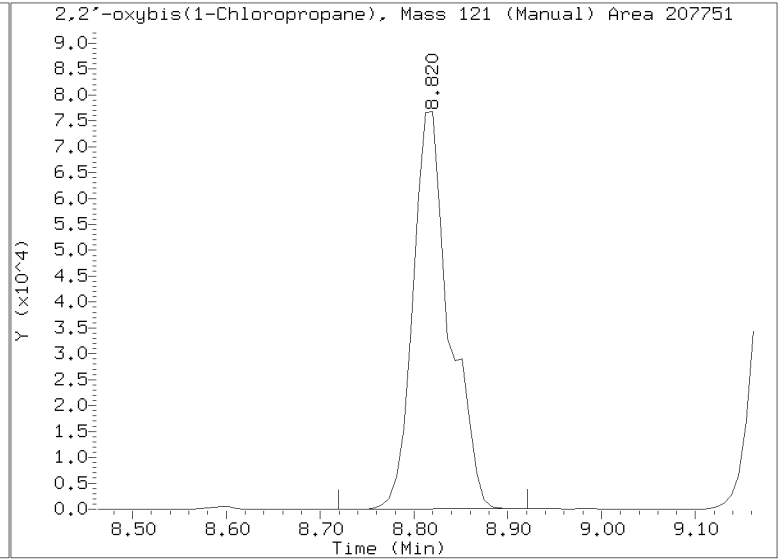
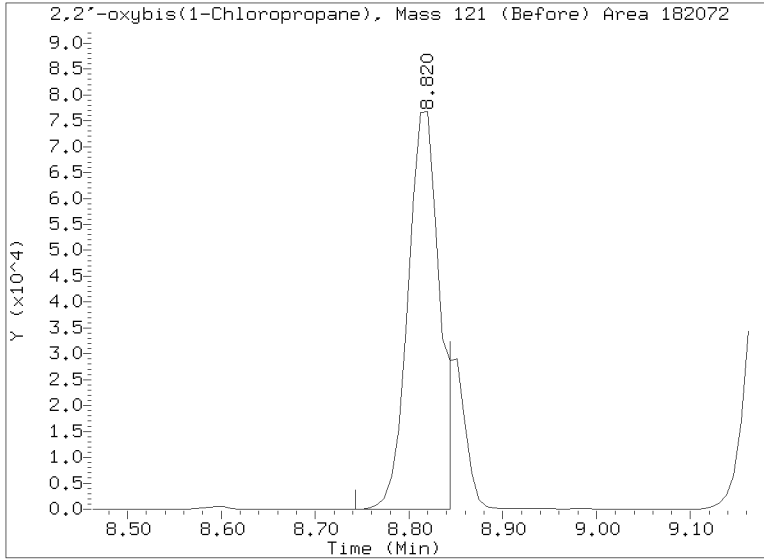
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022802.D

Injection Date: 28-FEB-2023 11:39

Lab ID: SLB0374-CAL7 Client ID:

Report Date: 03/10/2023 13:21



Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022803.D

Date: 28-FEB-2023 12:15

Client ID:

Sample Info: SLB0374-CAL6

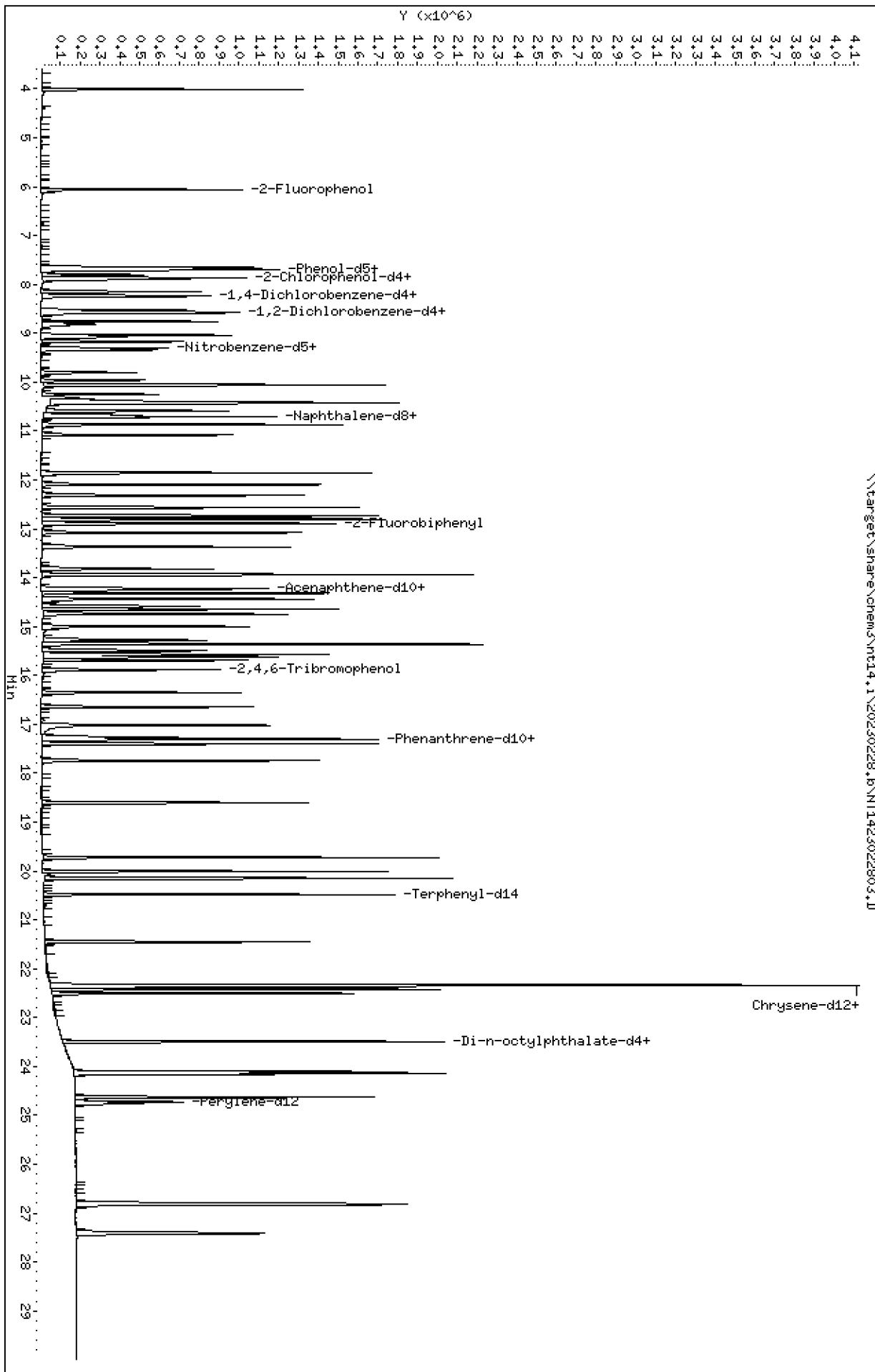
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022803.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022803.D  
 Lab Smp Id: SLB0374-CAL6  
 Inj Date : 28-FEB-2023 12:15 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-CAL6  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 3 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS |           |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
|                                 |       |     |        |        |         |          | CAL-AMT | ON-COL    |
|                                 | MASS  |     |        |        |         |          | (ug/mL) | (ug/mL)   |
| \$ 1 2-Fluorophenol             | 112   |     | 6.058  | 6.128  | (0.738) | 494098   | 15.0000 | 16.62     |
| \$ 2 Phenol-d5                  | 99    |     | 7.650  | 7.665  | (0.931) | 684715   | 15.0000 | 16.22     |
| 3 Phenol                        | 94    |     | 7.673  | 7.681  | (0.934) | 513527   | 10.0000 | 10.20     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.866  | 7.882  | (0.958) | 570524   | 15.0000 | 15.89     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.804  | 7.805  | (0.950) | 331952   | 10.0000 | 10.02     |
| 6 2-Chlorophenol                | 128   |     | 7.897  | 7.905  | (0.961) | 387348   | 10.0000 | 10.44     |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.152  | 8.153  | (0.992) | 391022   | 10.0000 | 9.563     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.214  | 8.207  | (1.000) | 109658   | 4.00000 |           |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.245  | 8.246  | (1.004) | 405468   | 10.0000 | 10.03     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.564  | 8.572  | (1.043) | 258300   | 10.0000 | 9.558     |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.595  | 8.595  | (1.046) | 371021   | 10.0000 | 9.575     |
| 11 Benzyl alcohol               | 108   |     | 8.517  | 8.688  | (1.037) | 230349   | 10.0000 | 10.16     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.812  | 8.812  | (1.073) | 103420   | 10.0000 | 9.897     |
| 13 2-Methylphenol               | 108   |     | 8.758  | 8.774  | (1.066) | 363647   | 10.0000 | 11.43     |
| 17 Hexachloroethane             | 117   |     | 9.169  | 9.162  | (1.116) | 156006   | 10.0000 | 10.28     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.076  | 9.076  | (1.105) | 257037   | 10.0000 | 10.61     |
| 15 4-Methylphenol               | 108   |     | 9.037  | 9.069  | (1.100) | 359229   | 10.0000 | 10.10     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.309  | 9.317  | (0.872) | 420892   | 10.0000 | 10.81     |
| 19 Nitrobenzene                 | 77    |     | 9.340  | 9.356  | (0.875) | 394359   | 10.0000 | 10.54     |
| 20 Isophorone                   | 82    |     | 9.805  | 9.806  | (0.919) | 574873   | 10.0000 | 10.17     |
| 21 2-Nitrophenol                | 139   |     | 9.961  | 9.992  | (0.933) | 200731   | 10.0000 | 10.22     |
| 22 2,4-Dimethylphenol           | 107   |     | 10.061 | 10.062 | (0.943) | 688872   | 20.0000 | 20.19     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.247 | 10.256 | (0.960) | 372533   | 10.0000 | 9.902     |
| 24 Benzoic acid                 | 105   |     | 10.433 | 10.665 | (0.978) | 669306   | 40.0000 | 49.51 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | 10.426 | 10.441 | (0.977) | 626659   | 20.0000 | 19.87     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.595 | 10.588 | (0.993) | 365725   | 10.0000 | 9.486     |
| * 27 Naphthalene-d8             | 136   |     | 10.673 | 10.665 | (1.000) | 398074   | 4.00000 |           |
| 28 Naphthalene                  | 128   |     | 10.711 | 10.704 | (1.004) | 1017872  | 10.0000 | 9.586     |
| 29 4-Chloroaniline              | 127   |     | 10.873 | 10.889 | (1.019) | 923353   | 20.0000 | 20.33     |
| 30 Hexachlorobutadiene          | 225   |     | 11.082 | 11.082 | (1.038) | 225326   | 10.0000 | 9.578     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.856 | 11.872 | (1.111) | 649802   | 20.0000 | 21.16     |
| 32 2-Methylnaphthalene          | 142   |     | 12.103 | 12.096 | (1.134) | 793330   | 10.0000 | 10.09     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.568 | 12.560 | (0.882) | 535730   | 20.0000 | 20.41     |

| Compounds                         | QUANT SIG |        |        |         |          | AMOUNTS            |                   |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 12.738 | 12.746 | (0.894) | 519878   | 20.0000            | 21.64             |
| 35 2,4,5-Trichlorophenol          | 196       | 12.808 | 12.831 | (0.898) | 573203   | 20.0000            | 22.07             |
| § 36 2-Fluorobiphenyl             | 172       | 12.893 | 12.893 | (0.904) | 919972   | 10.0000            | 9.610             |
| 37 2-Chloronaphthalene            | 162       | 13.079 | 13.079 | (0.917) | 764624   | 10.0000            | 9.964             |
| 38 2-Nitroaniline                 | 65        | 13.373 | 13.373 | (0.938) | 424060   | 20.0000            | 21.19             |
| 39 Dimethylphthalate              | 163       | 13.822 | 13.814 | (0.970) | 782335   | 10.0000            | 10.11             |
| 40 Acenaphthylene                 | 152       | 13.938 | 13.938 | (0.978) | 1102399  | 10.0000            | 9.790             |
| 41 2,6-Dinitrotoluene             | 165       | 13.945 | 13.938 | (0.978) | 366636   | 20.0000            | 20.22             |
| * 42 Acenaphthene-d10             | 164       | 14.255 | 14.247 | (1.000) | 245951   | 4.00000            |                   |
| 43 3-Nitroaniline                 | 138       | 14.224 | 14.232 | (0.998) | 403089   | 20.0000            | 21.69             |
| 44 Acenaphthene                   | 153       | 14.317 | 14.309 | (1.004) | 702718   | 10.0000            | 9.747             |
| 45 2,4-Dinitrophenol              | 184       | 14.440 | 14.425 | (1.013) | 533957   | 40.0000            | 41.90             |
| 46 Dibenzofuran                   | 168       | 14.649 | 14.642 | (1.028) | 1122195  | 10.0000            | 9.783             |
| 47 4-Nitrophenol                  | 109       | 14.587 | 14.580 | (1.023) | 201125   | 20.0000            | 20.52             |
| 48 2,4-Dinitrotoluene             | 165       | 14.750 | 14.734 | (1.035) | 546428   | 20.0000            | 20.94             |
| 50 Diethylphthalate               | 149       | 15.275 | 15.260 | (1.072) | 748738   | 10.0000            | 10.35             |
| 49 Fluorene                       | 166       | 15.353 | 15.345 | (1.077) | 931735   | 10.0000            | 9.640             |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.368 | 15.361 | (1.078) | 491118   | 10.0000            | 9.550             |
| 52 4-Nitroaniline                 | 138       | 15.499 | 15.492 | (1.087) | 404434   | 20.0000            | 21.96             |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.584 | 15.608 | (0.903) | 670158   | 40.0000            | 40.61             |
| 54 N-Nitrosodiphenylamine         | 169       | 15.631 | 15.616 | (0.906) | 598028   | 10.0000            | 9.808             |
| § 55 2,4,6-Tribromophenol         | 330       | 15.885 | 15.893 | (1.114) | 216848   | 15.0000            | 15.29             |
| 56 4-Bromophenyl-phenylether      | 248       | 16.355 | 16.348 | (0.948) | 276034   | 10.0000            | 10.30             |
| 57 Hexachlorobenzene              | 284       | 16.649 | 16.634 | (0.965) | 287835   | 10.0000            | 9.766             |
| 58 Pentachlorophenol              | 266       | 17.021 | 17.021 | (0.986) | 317169   | 20.0000            | 20.58             |
| * 59 Phenanthrene-d10             | 188       | 17.260 | 17.245 | (1.000) | 485216   | 4.00000            |                   |
| 60 Phenanthrene                   | 178       | 17.307 | 17.300 | (1.003) | 1223400  | 10.0000            | 9.478             |
| 61 Anthracene                     | 178       | 17.400 | 17.392 | (1.008) | 1256888  | 10.0000            | 10.30             |
| 62 Carbazole                      | 167       | 17.748 | 17.748 | (1.028) | 1107797  | 10.0000            | 10.36             |
| 63 Di-n-butylphthalate            | 149       | 18.607 | 18.599 | (1.078) | 1339003  | 10.0000            | 10.06             |
| 64 Fluoranthene                   | 202       | 19.729 | 19.721 | (0.882) | 1475713  | 10.0000            | 10.23             |
| 65 Pyrene                         | 202       | 20.154 | 20.147 | (0.901) | 1508014  | 10.0000            | 9.918             |
| § 66 Terphenyl-d14                | 244       | 20.487 | 20.480 | (0.916) | 1119133  | 10.0000            | 9.560             |
| 67 Butylbenzylphthalate           | 149       | 21.455 | 21.447 | (0.959) | 523743   | 10.0000            | 10.12             |
| 68 Benzo(a)anthracene             | 228       | 22.353 | 22.338 | (0.999) | 1259344  | 10.0000            | 9.891             |
| * 69 Chrysene-d12                 | 240       | 22.376 | 22.361 | (1.000) | 380106   | 4.00000            |                   |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.337 | 22.330 | (0.998) | 1185069  | 30.0000            | 32.59             |
| 71 Chrysene                       | 228       | 22.423 | 22.415 | (1.002) | 1194484  | 10.0000            | 9.760             |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.508 | 22.500 | (0.958) | 748352   | 10.0000            | 10.05             |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.483 | 23.476 | (1.000) | 493409   | 4.00000            |                   |
| 73 Di-n-octylphthalate            | 149       | 23.499 | 23.484 | (1.001) | 1238433  | 10.0000            | 9.533             |
| 74 Benzo(b)fluoranthene           | 252       | 24.110 | 24.103 | (0.975) | 1298223  | 10.0000            | 10.93             |
| 75 Benzo(k)fluoranthene           | 252       | 24.149 | 24.134 | (0.977) | 1216435  | 10.0000            | 9.496             |
| 76 Benzo(a)pyrene                 | 252       | 24.629 | 24.622 | (0.996) | 1094578  | 10.0000            | 10.74             |
| * 77 Perylene-d12                 | 264       | 24.722 | 24.715 | (1.000) | 359407   | 4.00000            |                   |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.808 | 26.793 | (1.084) | 1332948  | 10.0000            | 10.39             |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.823 | 26.800 | (1.085) | 1111407  | 10.0000            | 10.20             |
| 80 Benzo(g,h,i)perylene           | 276       | 27.414 | 27.391 | (1.109) | 1177369  | 10.0000            | 10.53             |
| 90 N-Nitrosodimethylamine         | 74        | 4.011  | 4.104  | (0.488) | 390301   | 20.0000            | 20.16             |
| 91 Aniline                        | 93        | 7.704  | 7.735  | (0.938) | 946419   | 20.0000            | 20.30             |
| 93 Benzidine                      | 184       | 20.007 | 20.015 | (0.894) | 1206182  | 20.0000            | 20.93             |
| 103 Pyridine                      | 79        | 4.004  | 4.027  | (0.487) | 608195   | 10.0000            | 10.02             |
| 105 1-methylnaphthalene           | 142       | 12.320 | 12.313 | (1.154) | 726770   | 10.0000            | 10.04             |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.692 | 15.677 | (1.101) | 823641   | 10.0000            | 9.917             |

| Compounds                     | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                               | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| =====                         | =====     |  | =====  | =====  | =====   | =====    | =====              | =====             |
| 187 Total Benzofluoranthenes  | 252       |  | 24.149 | 24.103 | (0.977) | 2361344  | 20.0000            | 20.33             |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 14.997 | 15.029 | (1.052) | 299003   | 10.0000            | 10.22             |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023  
 Lab File ID: NT1423022803.D Calibration Time: 12:51  
 Lab Smp Id: SLB0374-CAL6  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 114351   | 57176      | 228702  | 109658 | -4.10 |
| 27 Naphthalene-d8     | 408655   | 204328     | 817310  | 398074 | -2.59 |
| 42 Acenaphthene-d10   | 254000   | 127000     | 508000  | 245951 | -3.17 |
| 59 Phenanthrene-d10   | 490626   | 245313     | 981252  | 485216 | -1.10 |
| 69 Chrysene-d12       | 390400   | 195200     | 780800  | 380106 | -2.64 |
| 134 Di-n-octylphthala | 500829   | 250415     | 1001658 | 493409 | -1.48 |
| 77 Perylene-d12       | 375675   | 187838     | 751350  | 359407 | -4.33 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.21   | 0.00  |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.67  | 0.07  |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.26  | 0.05  |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.26  | 0.05  |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.38  | 0.00  |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.48  | 0.00  |
| 77 Perylene-d12       | 24.72    | 24.22    | 25.22 | 24.72  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022803.D

Lab ID: SLB0374-CAL6  
nt14.i, ABN.m, 28-FEB-2023 12:15

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND               |
|-------|---------|---------|------------------------|
| 1.037 | 1.059   | -0.0218 | Benzyl alcohol         |
| 0.978 | 0.000   | 0.9776  | Benzoic acid           |
| 1.013 | 0.000   | 1.0130  | 2,4-Dinitrophenol      |
| 1.023 | 0.000   | 1.0233  | 4-Nitrophenol          |
| 0.986 | 0.000   | 0.9861  | Pentachlorophenol      |
| 0.488 | 0.500   | -0.0118 | N-Nitrosodimethylamine |
| 0.487 | 0.000   | 0.4874  | Pyridine               |
| 0.738 | 0.747   | -0.0092 | 2-Fluorophenol         |

RRT check based on Ccal File: NT1423022808.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*



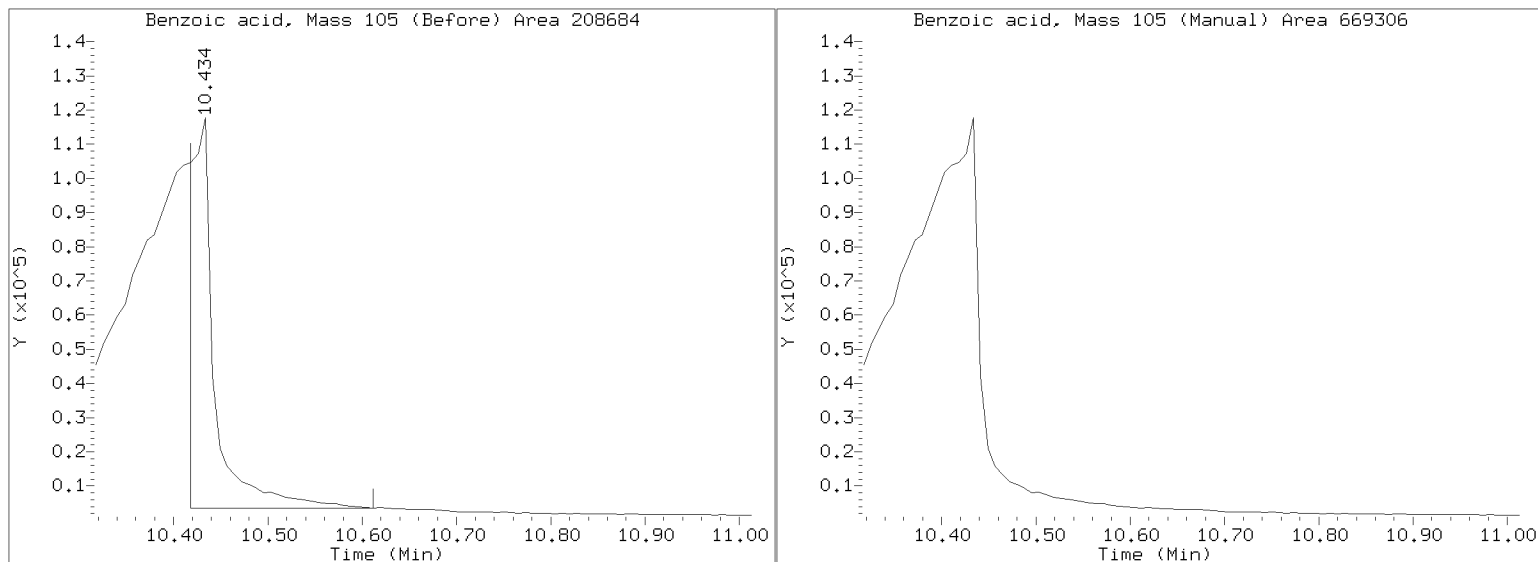
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022803.D

Injection Date: 28-FEB-2023 12:15

Lab ID: SLB0374-CAL6 Client ID:

Report Date: 03/10/2023 13:21



Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022804.D

Date: 28-FEB-2023 12:51

Client ID:

Sample Info: SLB0374-CALS

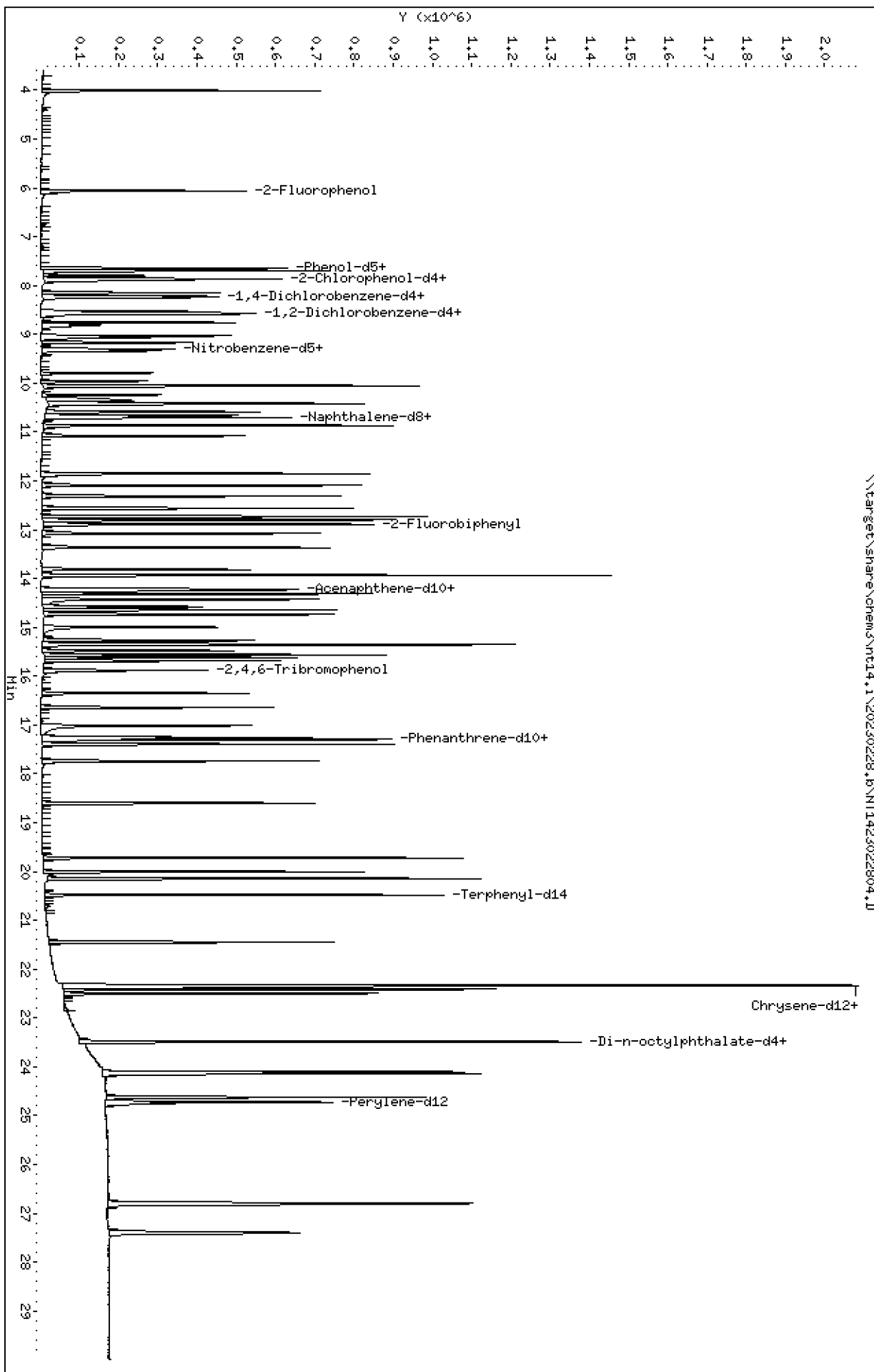
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022804.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022804.D  
 Lab Smp Id: SLB0374-CAL5  
 Inj Date : 28-FEB-2023 12:51 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-CAL5  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 4 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS |         |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|---------|
|                                 |       |     |        |        |         |          | CAL-AMT | ON-COL  |
|                                 | MASS  |     |        |        |         |          | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol             | 112   |     | 6.058  | 6.128  | (0.738) | 260051   | 7.50000 | 8.387   |
| \$ 2 Phenol-d5                  | 99    |     | 7.650  | 7.665  | (0.931) | 364409   | 7.50000 | 8.278   |
| 3 Phenol                        | 94    |     | 7.665  | 7.681  | (0.933) | 282067   | 5.00000 | 5.370   |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.866  | 7.882  | (0.958) | 305533   | 7.50000 | 8.162   |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.804  | 7.805  | (0.950) | 175790   | 5.00000 | 4.913   |
| 6 2-Chlorophenol                | 128   |     | 7.897  | 7.905  | (0.961) | 202596   | 5.00000 | 5.236   |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.144  | 8.153  | (0.992) | 209708   | 5.00000 | 4.918   |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.214  | 8.207  | (1.000) | 114351   | 4.00000 |         |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.245  | 8.246  | (1.004) | 218723   | 5.00000 | 5.190   |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.563  | 8.572  | (1.043) | 138145   | 5.00000 | 4.902   |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.587  | 8.595  | (1.045) | 199756   | 5.00000 | 4.944   |
| 11 Benzyl alcohol               | 108   |     | 8.517  | 8.688  | (1.037) | 116011   | 5.00000 | 4.991   |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.812  | 8.812  | (1.073) | 54179    | 5.00000 | 4.972   |
| 13 2-Methylphenol               | 108   |     | 8.758  | 8.774  | (1.066) | 176845   | 5.00000 | 5.329   |
| 17 Hexachloroethane             | 117   |     | 9.169  | 9.162  | (1.116) | 81102    | 5.00000 | 5.125   |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.068  | 9.076  | (1.104) | 136720   | 5.00000 | 5.411   |
| 15 4-Methylphenol               | 108   |     | 9.029  | 9.069  | (1.099) | 187688   | 5.00000 | 4.956   |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.309  | 9.317  | (0.873) | 219628   | 5.00000 | 5.494   |
| 19 Nitrobenzene                 | 77    |     | 9.340  | 9.356  | (0.876) | 209284   | 5.00000 | 5.448   |
| 20 Isophorone                   | 82    |     | 9.790  | 9.806  | (0.918) | 291476   | 5.00000 | 4.936   |
| 21 2-Nitrophenol                | 139   |     | 9.960  | 9.992  | (0.934) | 99495    | 5.00000 | 4.972   |
| 22 2,4-Dimethylphenol           | 107   |     | 10.053 | 10.062 | (0.943) | 368739   | 10.0000 | 10.53   |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.240 | 10.256 | (0.960) | 195425   | 5.00000 | 5.060   |
| 24 Benzoic acid                 | 105   |     | 10.356 | 10.665 | (0.971) | 295307   | 20.0000 | 21.28   |
| 25 2,4-Dichlorophenol           | 162   |     | 10.418 | 10.441 | (0.977) | 345023   | 10.0000 | 10.21   |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.588 | 10.588 | (0.993) | 196741   | 5.00000 | 4.971   |
| * 27 Naphthalene-d8             | 136   |     | 10.665 | 10.665 | (1.000) | 408655   | 4.00000 |         |
| 28 Naphthalene                  | 128   |     | 10.703 | 10.704 | (1.004) | 538815   | 5.00000 | 4.943   |
| 29 4-Chloroaniline              | 127   |     | 10.865 | 10.889 | (1.019) | 486638   | 10.0000 | 10.44   |
| 30 Hexachlorobutadiene          | 225   |     | 11.082 | 11.082 | (1.039) | 132554   | 5.00000 | 5.489   |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.856 | 11.872 | (1.112) | 339118   | 10.0000 | 10.76   |
| 32 2-Methylnaphthalene          | 142   |     | 12.096 | 12.096 | (1.134) | 416207   | 5.00000 | 5.156   |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.568 | 12.560 | (0.882) | 262875   | 10.0000 | 9.786   |

| Compounds                         | QUANT SIG |        |        | AMOUNTS |          |                    |                   |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 12.730 | 12.746 | (0.894) | 264723   | 10.0000            | 10.67             |
| 35 2,4,5-Trichlorophenol          | 196       | 12.800 | 12.831 | (0.898) | 290208   | 10.0000            | 10.82             |
| § 36 2-Fluorobiphenyl             | 172       | 12.893 | 12.893 | (0.905) | 484399   | 5.00000            | 4.900             |
| 37 2-Chloronaphthalene            | 162       | 13.078 | 13.079 | (0.918) | 396643   | 5.00000            | 5.005             |
| 38 2-Nitroaniline                 | 65        | 13.365 | 13.373 | (0.938) | 222909   | 10.0000            | 10.78             |
| 39 Dimethylphthalate              | 163       | 13.814 | 13.814 | (0.970) | 420733   | 5.00000            | 5.266             |
| 40 Acenaphthylene                 | 152       | 13.938 | 13.938 | (0.978) | 593490   | 5.00000            | 5.104             |
| 41 2,6-Dinitrotoluene             | 165       | 13.938 | 13.938 | (0.978) | 194703   | 10.0000            | 10.40             |
| * 42 Acenaphthene-d10             | 164       | 14.247 | 14.247 | (1.000) | 254000   | 4.00000            |                   |
| 43 3-Nitroaniline                 | 138       | 14.216 | 14.232 | (0.998) | 205208   | 10.0000            | 10.69             |
| 44 Acenaphthene                   | 153       | 14.317 | 14.309 | (1.005) | 365169   | 5.00000            | 4.905             |
| 45 2,4-Dinitrophenol              | 184       | 14.425 | 14.425 | (1.012) | 228510   | 20.0000            | 18.51             |
| 46 Dibenzofuran                   | 168       | 14.641 | 14.642 | (1.028) | 589230   | 5.00000            | 4.974             |
| 47 4-Nitrophenol                  | 109       | 14.579 | 14.580 | (1.023) | 96474    | 10.0000            | 9.882             |
| 48 2,4-Dinitrotoluene             | 165       | 14.734 | 14.734 | (1.034) | 278844   | 10.0000            | 10.35             |
| 50 Diethylphthalate               | 149       | 15.268 | 15.260 | (1.072) | 395513   | 5.00000            | 5.294             |
| 49 Fluorene                       | 166       | 15.345 | 15.345 | (1.077) | 492528   | 5.00000            | 4.934             |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.360 | 15.361 | (1.078) | 259650   | 5.00000            | 4.889             |
| 52 4-Nitroaniline                 | 138       | 15.476 | 15.492 | (1.086) | 203644   | 10.0000            | 10.71             |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.569 | 15.608 | (0.902) | 330606   | 20.0000            | 20.05             |
| 54 N-Nitrosodiphenylamine         | 169       | 15.623 | 15.616 | (0.906) | 316456   | 5.00000            | 5.133             |
| § 55 2,4,6-Tribromophenol         | 330       | 15.885 | 15.893 | (1.115) | 102657   | 7.50000            | 7.293             |
| 56 4-Bromophenyl-phenylether      | 248       | 16.355 | 16.348 | (0.948) | 142332   | 5.00000            | 5.251             |
| 57 Hexachlorobenzene              | 284       | 16.641 | 16.634 | (0.965) | 152054   | 5.00000            | 5.102             |
| 58 Pentachlorophenol              | 266       | 17.013 | 17.021 | (0.986) | 143862   | 10.0000            | 9.805             |
| * 59 Phenanthrene-d10             | 188       | 17.253 | 17.245 | (1.000) | 490626   | 4.00000            |                   |
| 60 Phenanthrene                   | 178       | 17.299 | 17.300 | (1.003) | 653683   | 5.00000            | 5.008             |
| 61 Anthracene                     | 178       | 17.392 | 17.392 | (1.008) | 659752   | 5.00000            | 5.347             |
| 62 Carbazole                      | 167       | 17.740 | 17.748 | (1.028) | 558029   | 5.00000            | 5.160             |
| 63 Di-n-butylphthalate            | 149       | 18.599 | 18.599 | (1.078) | 692339   | 5.00000            | 5.050             |
| 64 Fluoranthene                   | 202       | 19.721 | 19.721 | (0.881) | 778341   | 5.00000            | 5.255             |
| 65 Pyrene                         | 202       | 20.146 | 20.147 | (0.900) | 848784   | 5.00000            | 5.435             |
| § 66 Terphenyl-d14                | 244       | 20.479 | 20.480 | (0.915) | 610457   | 5.00000            | 5.077             |
| 67 Butylbenzylphthalate           | 149       | 21.447 | 21.447 | (0.958) | 270943   | 5.00000            | 4.998             |
| 68 Benzo(a)anthracene             | 228       | 22.345 | 22.338 | (0.999) | 693299   | 5.00000            | 5.301             |
| * 69 Chrysene-d12                 | 240       | 22.376 | 22.361 | (1.000) | 390400   | 4.00000            |                   |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.330 | 22.330 | (0.998) | 570719   | 15.0000            | 15.28             |
| 71 Chrysene                       | 228       | 22.415 | 22.415 | (1.002) | 634916   | 5.00000            | 5.051             |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.500 | 22.500 | (0.958) | 382571   | 5.00000            | 5.032             |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.483 | 23.476 | (1.000) | 500829   | 4.00000            |                   |
| 73 Di-n-octylphthalate            | 149       | 23.491 | 23.484 | (1.000) | 644883   | 5.00000            | 4.890             |
| 74 Benzo(b)fluoranthene           | 252       | 24.110 | 24.103 | (0.975) | 640680   | 5.00000            | 5.162             |
| 75 Benzo(k)fluoranthene           | 252       | 24.141 | 24.134 | (0.977) | 668802   | 5.00000            | 4.995             |
| 76 Benzo(a)pyrene                 | 252       | 24.629 | 24.622 | (0.996) | 562934   | 5.00000            | 5.286             |
| * 77 Perylene-d12                 | 264       | 24.722 | 24.715 | (1.000) | 375675   | 4.00000            |                   |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.800 | 26.793 | (1.084) | 701455   | 5.00000            | 5.233             |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.815 | 26.800 | (1.085) | 592079   | 5.00000            | 5.201             |
| 80 Benzo(g,h,i)perylene           | 276       | 27.406 | 27.391 | (1.109) | 602278   | 5.00000            | 5.152             |
| 90 N-Nitrosodimethylamine         | 74        | 4.004  | 4.104  | (0.487) | 217203   | 10.0000            | 10.03             |
| 91 Aniline                        | 93        | 7.696  | 7.735  | (0.937) | 504334   | 10.0000            | 9.833             |
| 93 Benzidine                      | 184       | 19.999 | 20.015 | (0.894) | 591643   | 10.0000            | 9.648             |
| 103 Pyridine                      | 79        | 4.011  | 4.027  | (0.488) | 341942   | 5.00000            | 5.179             |
| 105 1-methylnaphthalene           | 142       | 12.312 | 12.313 | (1.154) | 380767   | 5.00000            | 5.124             |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.684 | 15.677 | (1.101) | 443853   | 5.00000            | 5.175             |

| Compounds                     | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                               | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| =====                         | =====     |  | =====  | =====  | =====   | =====    | =====              |                   |
| 187 Total Benzofluoranthenes  | 252       |  | 24.141 | 24.103 | (0.977) | 1234620  | 10.0000            | 10.17             |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 14.997 | 15.029 | (1.053) | 142269   | 5.00000            | 4.857             |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023  
 Lab File ID: NT1423022804.D Calibration Time: 12:51  
 Lab Smp Id: SLB0374-CAL5  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 114351   | 57176      | 228702  | 114351 | 0.00  |
| 27 Naphthalene-d8     | 408655   | 204328     | 817310  | 408655 | 0.00  |
| 42 Acenaphthene-d10   | 254000   | 127000     | 508000  | 254000 | 0.00  |
| 59 Phenanthrene-d10   | 490626   | 245313     | 981252  | 490626 | 0.00  |
| 69 Chrysene-d12       | 390400   | 195200     | 780800  | 390400 | 0.00  |
| 134 Di-n-octylphthala | 500829   | 250415     | 1001658 | 500829 | 0.00  |
| 77 Perylene-d12       | 375675   | 187838     | 751350  | 375675 | 0.00  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.21   | 0.00  |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.67  | 0.00  |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.25  | 0.00  |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.25  | 0.00  |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.38  | 0.00  |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.48  | 0.00  |
| 77 Perylene-d12       | 24.72    | 24.22    | 25.22 | 24.72  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022804.D

Lab ID: SLB0374-CAL5  
nt14.i, ABN.m, 28-FEB-2023 12:51

RT CO-ELUTION COMPOUNDS

-----  
13.938 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND               |
|-------|---------|---------|------------------------|
| 1.037 | 1.059   | -0.0218 | Benzyl alcohol         |
| 1.099 | 1.105   | -0.0058 | 4-Methylphenol         |
| 0.971 | 0.000   | 0.9710  | Benzoic acid           |
| 1.012 | 0.000   | 1.0125  | 2,4-Dinitrophenol      |
| 1.023 | 0.000   | 1.0233  | 4-Nitrophenol          |
| 0.986 | 0.000   | 0.9861  | Pentachlorophenol      |
| 0.487 | 0.500   | -0.0127 | N-Nitrosodimethylamine |
| 0.937 | 0.942   | -0.0056 | Aniline                |
| 0.488 | 0.000   | 0.4884  | Pyridine               |
| 0.738 | 0.747   | -0.0092 | 2-Fluorophenol         |

RRT check based on Ccal File: NT1423022808.D

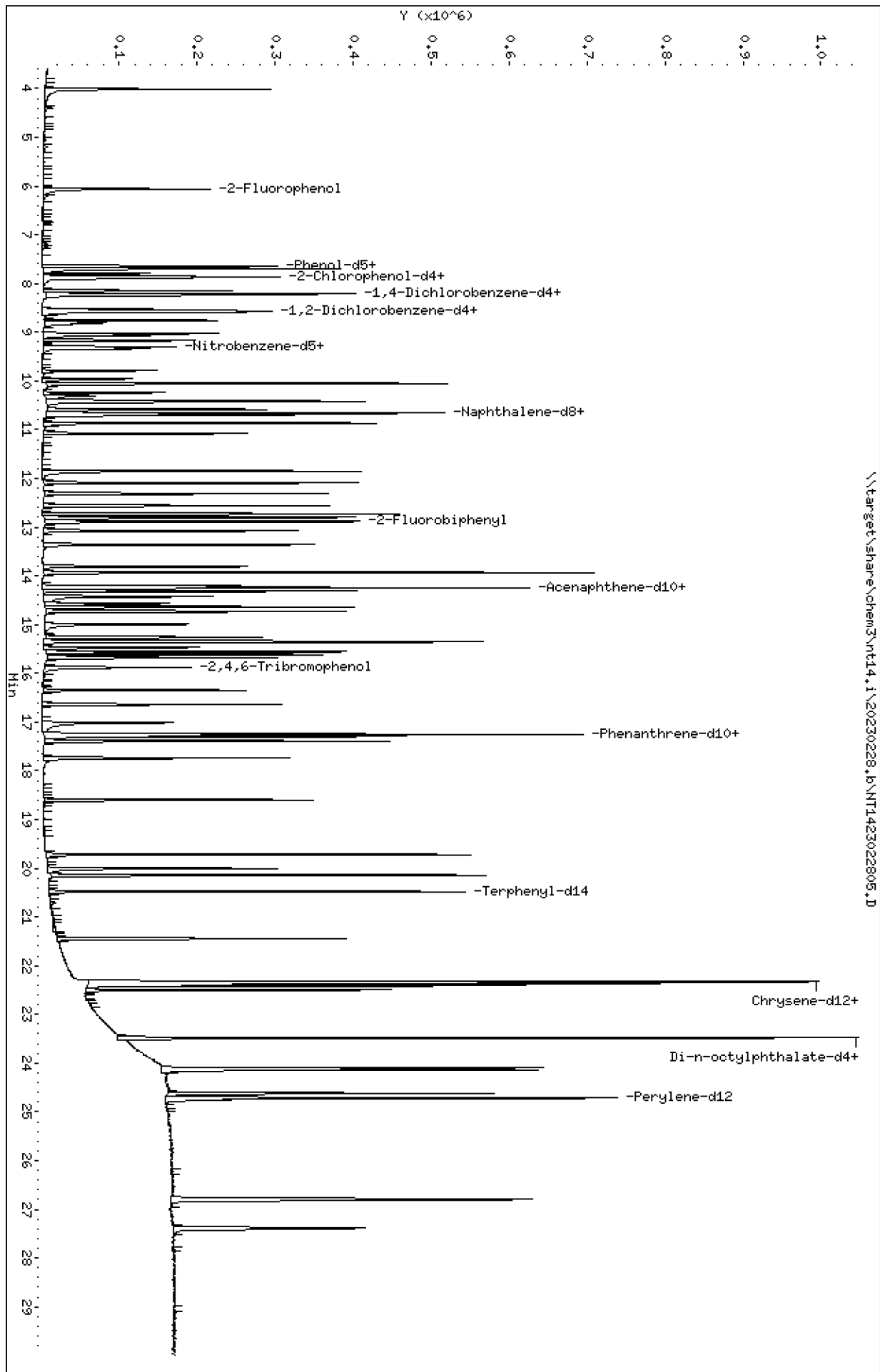
On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022805.D  
Date: 28-FEB-2023 13:28  
Client ID:  
Sample Info: SLB0374-CAL4  
Column phase: ZB-5msi

Instrument: nt14,1  
Operator: JGR  
Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022805.D





ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022805.D  
 Lab Smp Id: SLB0374-CAL4  
 Inj Date : 28-FEB-2023 13:28 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-CAL4  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 5 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS |           |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
|                                 |       |     |        |        |         |          | CAL-AMT | ON-COL    |
|                                 | MASS  |     |        |        |         |          | (ug/mL) | (ug/mL)   |
| \$ 1 2-Fluorophenol             | 112   |     | 6.066  | 6.128  | (0.738) | 126158   | 3.75000 | 4.109     |
| \$ 2 Phenol-d5                  | 99    |     | 7.642  | 7.665  | (0.930) | 178407   | 3.75000 | 4.093     |
| 3 Phenol                        | 94    |     | 7.665  | 7.681  | (0.933) | 140636   | 2.50000 | 2.704     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.866  | 7.882  | (0.958) | 141224   | 3.75000 | 3.810     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.796  | 7.805  | (0.949) | 88931    | 2.50000 | 2.465     |
| 6 2-Chlorophenol                | 128   |     | 7.889  | 7.905  | (0.960) | 101365   | 2.50000 | 2.646     |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.145  | 8.153  | (0.992) | 105667   | 2.50000 | 2.503     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.214  | 8.207  | (1.000) | 113228   | 4.00000 |           |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.245  | 8.246  | (1.004) | 101089   | 2.50000 | 2.423     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.564  | 8.572  | (1.043) | 69920    | 2.50000 | 2.506     |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.587  | 8.595  | (1.045) | 100479   | 2.50000 | 2.511     |
| 11 Benzyl alcohol               | 108   |     | 8.517  | 8.688  | (1.037) | 50852    | 2.50000 | 2.229     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.804  | 8.812  | (1.072) | 26929    | 2.50000 | 2.496     |
| 13 2-Methylphenol               | 108   |     | 8.758  | 8.774  | (1.066) | 88208    | 2.50000 | 2.685     |
| 17 Hexachloroethane             | 117   |     | 9.169  | 9.162  | (1.116) | 40237    | 2.50000 | 2.568     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.068  | 9.076  | (1.104) | 66783    | 2.50000 | 2.670     |
| 15 4-Methylphenol               | 108   |     | 9.029  | 9.069  | (1.099) | 91493    | 2.50000 | 2.413     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.301  | 9.317  | (0.872) | 106453   | 2.50000 | 2.685     |
| 19 Nitrobenzene                 | 77    |     | 9.340  | 9.356  | (0.876) | 102162   | 2.50000 | 2.681     |
| 20 Isophorone                   | 82    |     | 9.790  | 9.806  | (0.918) | 136718   | 2.50000 | 2.313     |
| 21 2-Nitrophenol                | 139   |     | 9.961  | 9.992  | (0.934) | 41751    | 2.50000 | 2.112     |
| 22 2,4-Dimethylphenol           | 107   |     | 10.054 | 10.062 | (0.943) | 186861   | 5.00000 | 5.380     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.240 | 10.256 | (0.960) | 102299   | 2.50000 | 2.671     |
| 24 Benzoic acid                 | 105   |     | 10.302 | 10.665 | (0.966) | 101888   | 10.0000 | 7.402 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | 10.418 | 10.441 | (0.977) | 172335   | 5.00000 | 5.013     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.588 | 10.588 | (0.993) | 99078    | 2.50000 | 2.524     |
| * 27 Naphthalene-d8             | 136   |     | 10.665 | 10.665 | (1.000) | 405310   | 4.00000 |           |
| 28 Naphthalene                  | 128   |     | 10.704 | 10.704 | (1.004) | 272997   | 2.50000 | 2.525     |
| 29 4-Chloroaniline              | 127   |     | 10.866 | 10.889 | (1.019) | 240963   | 5.00000 | 5.211     |
| 30 Hexachlorobutadiene          | 225   |     | 11.082 | 11.082 | (1.039) | 58372    | 2.50000 | 2.437     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.848 | 11.872 | (1.111) | 162866   | 5.00000 | 5.209     |
| 32 2-Methylnaphthalene          | 142   |     | 12.096 | 12.096 | (1.134) | 205718   | 2.50000 | 2.570     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.568 | 12.560 | (0.882) | 118187   | 5.00000 | 4.579     |

| Compounds                         | QUANT SIG |        |        | AMOUNTS |          |                    |                   |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 12.730 | 12.746 | (0.894) | 122077   | 5.00000            | 5.098             |
| 35 2,4,5-Trichlorophenol          | 196       | 12.800 | 12.831 | (0.898) | 136383   | 5.00000            | 5.268             |
| § 36 2-Fluorobiphenyl             | 172       | 12.885 | 12.893 | (0.904) | 242604   | 2.50000            | 2.543             |
| 37 2-Chloronaphthalene            | 162       | 13.079 | 13.079 | (0.918) | 195722   | 2.50000            | 2.559             |
| 38 2-Nitroaniline                 | 65        | 13.357 | 13.373 | (0.938) | 104958   | 5.00000            | 5.262             |
| 39 Dimethylphthalate              | 163       | 13.806 | 13.814 | (0.969) | 208015   | 2.50000            | 2.698             |
| 40 Acenaphthylene                 | 152       | 13.930 | 13.938 | (0.978) | 299439   | 2.50000            | 2.668             |
| 41 2,6-Dinitrotoluene             | 165       | 13.938 | 13.938 | (0.978) | 95039    | 5.00000            | 5.260             |
| * 42 Acenaphthene-d10             | 164       | 14.247 | 14.247 | (1.000) | 245142   | 4.00000            |                   |
| 43 3-Nitroaniline                 | 138       | 14.209 | 14.232 | (0.997) | 96033    | 5.00000            | 5.186             |
| 44 Acenaphthene                   | 153       | 14.309 | 14.309 | (1.004) | 182283   | 2.50000            | 2.537             |
| 45 2,4-Dinitrophenol              | 184       | 14.425 | 14.425 | (1.012) | 78557    | 10.0000            | 6.778             |
| 46 Dibenzofuran                   | 168       | 14.641 | 14.642 | (1.028) | 292433   | 2.50000            | 2.558             |
| 47 4-Nitrophenol                  | 109       | 14.572 | 14.580 | (1.023) | 35594    | 5.00000            | 3.850             |
| 48 2,4-Dinitrotoluene             | 165       | 14.726 | 14.734 | (1.034) | 136357   | 5.00000            | 5.242             |
| 50 Diethylphthalate               | 149       | 15.260 | 15.260 | (1.071) | 192704   | 2.50000            | 2.673             |
| 49 Fluorene                       | 166       | 15.345 | 15.345 | (1.077) | 251711   | 2.50000            | 2.613             |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.361 | 15.361 | (1.078) | 129834   | 2.50000            | 2.533             |
| 52 4-Nitroaniline                 | 138       | 15.469 | 15.492 | (1.086) | 96767    | 5.00000            | 5.271             |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.561 | 15.608 | (0.902) | 144017   | 10.0000            | 8.883             |
| 54 N-Nitrosodiphenylamine         | 169       | 15.615 | 15.616 | (0.905) | 157472   | 2.50000            | 2.581             |
| § 55 2,4,6-Tribromophenol         | 330       | 15.877 | 15.893 | (1.114) | 46515    | 3.75000            | 3.484             |
| 56 4-Bromophenyl-phenylether      | 248       | 16.348 | 16.348 | (0.948) | 68823    | 2.50000            | 2.566             |
| 57 Hexachlorobenzene              | 284       | 16.641 | 16.634 | (0.965) | 73786    | 2.50000            | 2.502             |
| 58 Pentachlorophenol              | 266       | 17.013 | 17.021 | (0.986) | 51244    | 5.00000            | 3.636             |
| * 59 Phenanthrene-d10             | 188       | 17.253 | 17.245 | (1.000) | 485508   | 4.00000            |                   |
| 60 Phenanthrene                   | 178       | 17.299 | 17.300 | (1.003) | 327409   | 2.50000            | 2.535             |
| 61 Anthracene                     | 178       | 17.392 | 17.392 | (1.008) | 323023   | 2.50000            | 2.646             |
| 62 Carbazole                      | 167       | 17.740 | 17.748 | (1.028) | 262549   | 2.50000            | 2.453             |
| 63 Di-n-butylphthalate            | 149       | 18.599 | 18.599 | (1.078) | 325349   | 2.50000            | 2.374             |
| 64 Fluoranthene                   | 202       | 19.721 | 19.721 | (0.882) | 387153   | 2.50000            | 2.598             |
| 65 Pyrene                         | 202       | 20.146 | 20.147 | (0.901) | 401670   | 2.50000            | 2.557             |
| § 66 Terphenyl-d14                | 244       | 20.479 | 20.480 | (0.916) | 315246   | 2.50000            | 2.606             |
| 67 Butylbenzylphthalate           | 149       | 21.447 | 21.447 | (0.959) | 128438   | 2.50000            | 2.330             |
| 68 Benzo(a)anthracene             | 228       | 22.338 | 22.338 | (0.999) | 349585   | 2.50000            | 2.657             |
| * 69 Chrysene-d12                 | 240       | 22.369 | 22.361 | (1.000) | 392724   | 4.00000            |                   |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.330 | 22.330 | (0.998) | 258156   | 7.50000            | 6.872             |
| 71 Chrysene                       | 228       | 22.415 | 22.415 | (1.002) | 322345   | 2.50000            | 2.549             |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.500 | 22.500 | (0.958) | 178294   | 2.50000            | 2.412             |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.483 | 23.476 | (1.000) | 485486   | 4.00000            |                   |
| 73 Di-n-octylphthalate            | 149       | 23.491 | 23.484 | (1.000) | 319686   | 2.50000            | 2.501             |
| 74 Benzo(b)fluoranthene           | 252       | 24.103 | 24.103 | (0.975) | 305453   | 2.50000            | 2.465             |
| 75 Benzo(k)fluoranthene           | 252       | 24.141 | 24.134 | (0.977) | 360873   | 2.50000            | 2.699             |
| 76 Benzo(a)pyrene                 | 252       | 24.621 | 24.622 | (0.996) | 281055   | 2.50000            | 2.644             |
| * 77 Perylene-d12                 | 264       | 24.714 | 24.715 | (1.000) | 375073   | 4.00000            |                   |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.792 | 26.793 | (1.084) | 348375   | 2.50000            | 2.603             |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.808 | 26.800 | (1.085) | 296243   | 2.50000            | 2.606             |
| 80 Benzo(g,h,i)perylene           | 276       | 27.390 | 27.391 | (1.108) | 293772   | 2.50000            | 2.517             |
| 90 N-Nitrosodimethylamine         | 74        | 3.996  | 4.104  | (0.486) | 108235   | 5.00000            | 4.842             |
| 91 Aniline                        | 93        | 7.696  | 7.735  | (0.937) | 251477   | 5.00000            | 4.811             |
| 93 Benzidine                      | 184       | 19.999 | 20.015 | (0.894) | 225245   | 5.00000            | 3.576             |
| 103 Pyridine                      | 79        | 4.011  | 4.027  | (0.488) | 152436   | 2.50000            | 2.266             |
| 105 1-methylnaphthalene           | 142       | 12.312 | 12.313 | (1.154) | 186649   | 2.50000            | 2.532             |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.677 | 15.677 | (1.100) | 222632   | 2.50000            | 2.689             |

| Compounds                     | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                               | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       |  | 24.103 | 24.103 | (0.975) | 625000   | 5.00000            | 5.156             |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 14.997 | 15.029 | (1.053) | 63604    | 2.50000            | 2.281             |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023  
 Lab File ID: NT1423022805.D Calibration Time: 12:51  
 Lab Smp Id: SLB0374-CAL4  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 114351   | 57176      | 228702  | 113228 | -0.98 |
| 27 Naphthalene-d8     | 408655   | 204328     | 817310  | 405310 | -0.82 |
| 42 Acenaphthene-d10   | 254000   | 127000     | 508000  | 245142 | -3.49 |
| 59 Phenanthrene-d10   | 490626   | 245313     | 981252  | 485508 | -1.04 |
| 69 Chrysene-d12       | 390400   | 195200     | 780800  | 392724 | 0.60  |
| 134 Di-n-octylphthala | 500829   | 250415     | 1001658 | 485486 | -3.06 |
| 77 Perylene-d12       | 375675   | 187838     | 751350  | 375073 | -0.16 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.21   | 0.00  |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.67  | 0.00  |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.25  | 0.00  |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.25  | 0.00  |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.37  | -0.03 |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.48  | 0.00  |
| 77 Perylene-d12       | 24.72    | 24.22    | 25.22 | 24.71  | -0.03 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022805.D

Lab ID: SLB0374-CAL4  
nt14.i, ABN.m, 28-FEB-2023 13:28

RT CO-ELUTION COMPOUNDS

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NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND               |
|-------|---------|---------|------------------------|
| 1.037 | 1.059   | -0.0218 | Benzyl alcohol         |
| 1.099 | 1.105   | -0.0058 | 4-Methylphenol         |
| 0.966 | 0.000   | 0.9659  | Benzoic acid           |
| 1.012 | 0.000   | 1.0125  | 2,4-Dinitrophenol      |
| 1.023 | 0.000   | 1.0228  | 4-Nitrophenol          |
| 0.986 | 0.000   | 0.9861  | Pentachlorophenol      |
| 0.486 | 0.500   | -0.0136 | N-Nitrosodimethylamine |
| 0.937 | 0.942   | -0.0056 | Aniline                |
| 0.488 | 0.000   | 0.4884  | Pyridine               |
| 0.738 | 0.747   | -0.0082 | 2-Fluorophenol         |

RRT check based on Ccal File: NT1423022808.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

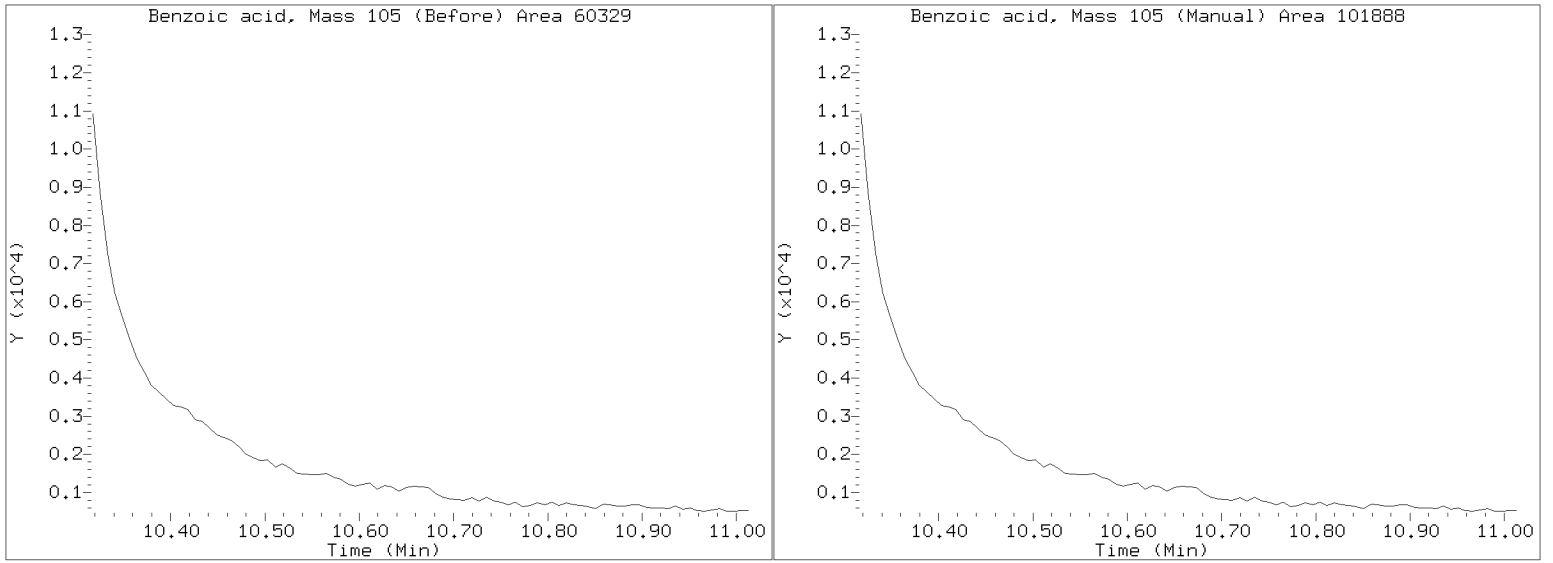
# Quant Ion Manual Peak Adjustment Report

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Injection Date: 28-FEB-2023 13:28

Lab ID: SLB0374-CAL4 Client ID:

Report Date: 03/10/2023 13:21



Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022806.D

Date: 28-FEB-2023 14:04

Client ID:

Sample Info: SLB0374-CAL3

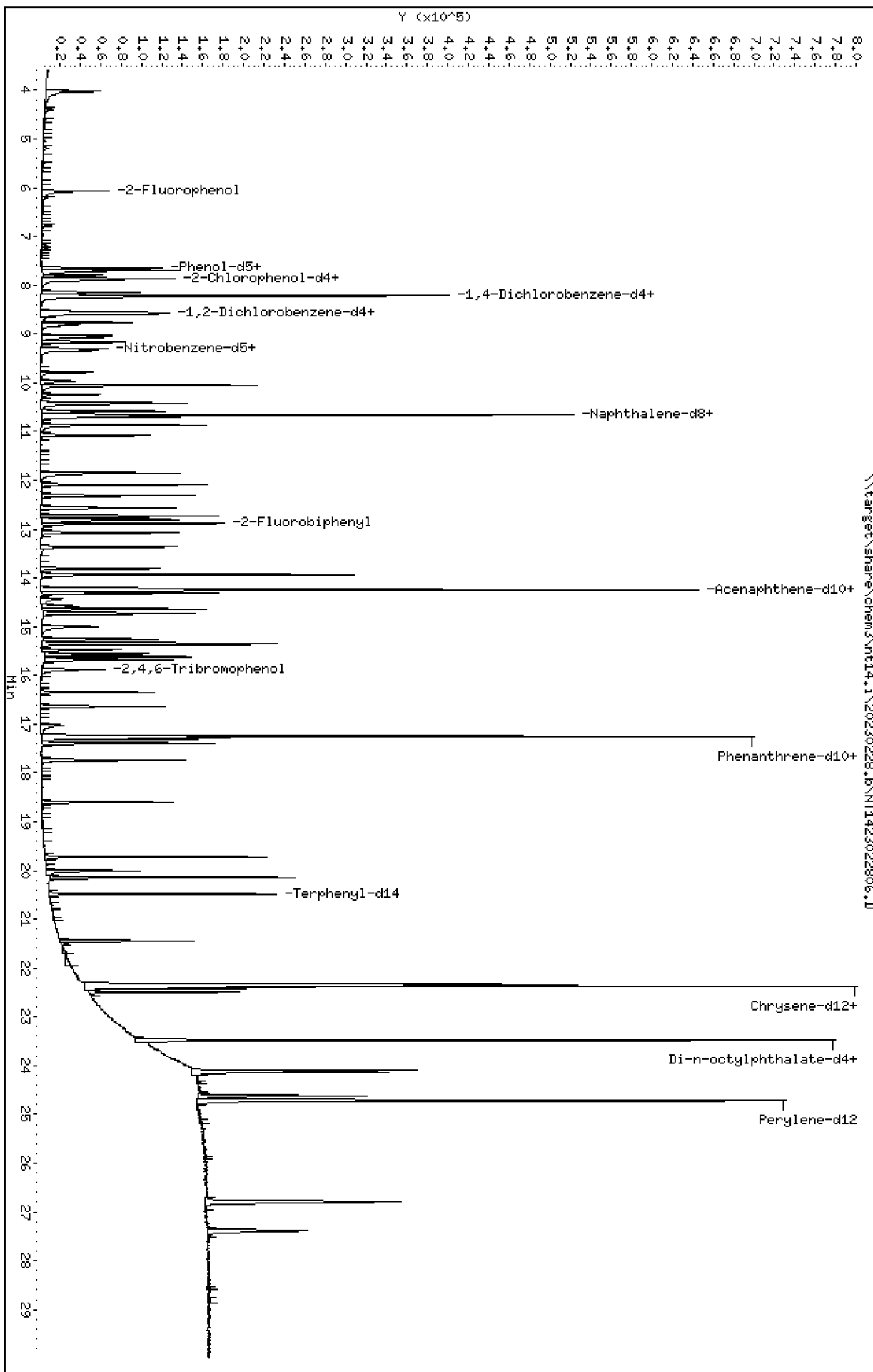
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022806.D  
 Lab Smp Id: SLB0374-CAL3  
 Inj Date : 28-FEB-2023 14:04 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-CAL3  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 6 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS |           |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
|                                 |       |     |        |        |         |          | CAL-AMT | ON-COL    |
|                                 | MASS  |     |        |        |         |          | (ug/mL) | (ug/mL)   |
| \$ 1 2-Fluorophenol             | 112   |     | 6.066  | 6.128  | (0.738) | 47462    | 1.50000 | 1.494     |
| \$ 2 Phenol-d5                  | 99    |     | 7.650  | 7.665  | (0.931) | 72471    | 1.50000 | 1.607     |
| 3 Phenol                        | 94    |     | 7.665  | 7.681  | (0.933) | 56874    | 1.00000 | 1.057     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.866  | 7.882  | (0.958) | 57803    | 1.50000 | 1.507     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.796  | 7.805  | (0.949) | 42650    | 1.00000 | 1.130     |
| 6 2-Chlorophenol                | 128   |     | 7.897  | 7.905  | (0.961) | 42304    | 1.00000 | 1.067     |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.152  | 8.153  | (0.992) | 46126    | 1.00000 | 1.056     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.214  | 8.207  | (1.000) | 117168   | 4.00000 |           |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.245  | 8.246  | (1.004) | 43566    | 1.00000 | 1.009     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.564  | 8.572  | (1.043) | 30212    | 1.00000 | 1.046     |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.595  | 8.595  | (1.046) | 44305    | 1.00000 | 1.070     |
| 11 Benzyl alcohol               | 108   |     | 8.525  | 8.688  | (1.038) | 16429    | 1.00000 | 0.6991    |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.804  | 8.812  | (1.072) | 11810    | 1.00000 | 1.058     |
| 13 2-Methylphenol               | 108   |     | 8.758  | 8.774  | (1.066) | 36194    | 1.00000 | 1.065     |
| 17 Hexachloroethane             | 117   |     | 9.169  | 9.162  | (1.116) | 16575    | 1.00000 | 1.022     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.068  | 9.076  | (1.104) | 27516    | 1.00000 | 1.063     |
| 15 4-Methylphenol               | 108   |     | 9.029  | 9.069  | (1.099) | 36110    | 1.00000 | 0.9145    |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.309  | 9.317  | (0.873) | 42272    | 1.00000 | 1.033     |
| 19 Nitrobenzene                 | 77    |     | 9.340  | 9.356  | (0.876) | 41449    | 1.00000 | 1.054     |
| 20 Isophorone                   | 82    |     | 9.790  | 9.806  | (0.918) | 51815    | 1.00000 | 0.8453    |
| 21 2-Nitrophenol                | 139   |     | 9.968  | 9.992  | (0.935) | 13288    | 1.00000 | 0.6528    |
| 22 2,4-Dimethylphenol           | 107   |     | 10.054 | 10.062 | (0.943) | 77255    | 2.00000 | 2.156     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.240 | 10.256 | (0.960) | 43990    | 1.00000 | 1.113     |
| 24 Benzoic acid                 | 105   |     | 10.665 | 10.665 | (1.000) | 15360    | 4.00000 | 1.082 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | 10.418 | 10.441 | (0.977) | 68601    | 2.00000 | 1.903     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.588 | 10.588 | (0.993) | 43284    | 1.00000 | 1.069     |
| * 27 Naphthalene-d8             | 136   |     | 10.665 | 10.665 | (1.000) | 418158   | 4.00000 |           |
| 28 Naphthalene                  | 128   |     | 10.703 | 10.704 | (1.004) | 116080   | 1.00000 | 1.041     |
| 29 4-Chloroaniline              | 127   |     | 10.866 | 10.889 | (1.019) | 98050    | 2.00000 | 2.055     |
| 30 Hexachlorobutadiene          | 225   |     | 11.082 | 11.082 | (1.039) | 24783    | 1.00000 | 1.003     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.848 | 11.872 | (1.111) | 65521    | 2.00000 | 2.031     |
| 32 2-Methylnaphthalene          | 142   |     | 12.096 | 12.096 | (1.134) | 85405    | 1.00000 | 1.034     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.568 | 12.560 | (0.882) | 40986    | 2.00000 | 1.547     |



| Compounds                         | QUANT SIG |        |        |         |          | AMOUNTS            |                   |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 12.730 | 12.746 | (0.894) | 46794    | 2.00000            | 1.900             |
| 35 2,4,5-Trichlorophenol          | 196       | 12.808 | 12.831 | (0.899) | 48880    | 2.00000            | 1.835             |
| § 36 2-Fluorobiphenyl             | 172       | 12.885 | 12.893 | (0.904) | 103857   | 1.00000            | 1.058             |
| 37 2-Chloronaphthalene            | 162       | 13.079 | 13.079 | (0.918) | 81581    | 1.00000            | 1.037             |
| 38 2-Nitroaniline                 | 65        | 13.357 | 13.373 | (0.938) | 40033    | 2.00000            | 1.951             |
| 39 Dimethylphthalate              | 163       | 13.806 | 13.814 | (0.969) | 85285    | 1.00000            | 1.075             |
| 40 Acenaphthylene                 | 152       | 13.930 | 13.938 | (0.978) | 125829   | 1.00000            | 1.090             |
| 41 2,6-Dinitrotoluene             | 165       | 13.930 | 13.938 | (0.978) | 37903    | 2.00000            | 2.039             |
| * 42 Acenaphthene-d10             | 164       | 14.247 | 14.247 | (1.000) | 252184   | 4.00000            |                   |
| 43 3-Nitroaniline                 | 138       | 14.208 | 14.232 | (0.997) | 36003    | 2.00000            | 1.890             |
| 44 Acenaphthene                   | 153       | 14.309 | 14.309 | (1.004) | 76524    | 1.00000            | 1.035             |
| 45 2,4-Dinitrophenol              | 184       | 14.425 | 14.425 | (1.012) | 18721    | 4.00000            | 1.588 (MH)        |
| 46 Dibenzofuran                   | 168       | 14.641 | 14.642 | (1.028) | 124319   | 1.00000            | 1.057             |
| 47 4-Nitrophenol                  | 109       | 14.580 | 14.580 | (1.023) | 14522    | 2.00000            | 1.537 (M)         |
| 48 2,4-Dinitrotoluene             | 165       | 14.726 | 14.734 | (1.034) | 52150    | 2.00000            | 1.949             |
| 50 Diethylphthalate               | 149       | 15.260 | 15.260 | (1.071) | 79620    | 1.00000            | 1.073             |
| 49 Fluorene                       | 166       | 15.345 | 15.345 | (1.077) | 106613   | 1.00000            | 1.076             |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.361 | 15.361 | (1.078) | 55560    | 1.00000            | 1.054             |
| 52 4-Nitroaniline                 | 138       | 15.469 | 15.492 | (1.086) | 35238    | 2.00000            | 1.866             |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.553 | 15.608 | (0.902) | 39362    | 4.00000            | 2.387             |
| 54 N-Nitrosodiphenylamine         | 169       | 15.615 | 15.616 | (0.905) | 67530    | 1.00000            | 1.084             |
| § 55 2,4,6-Tribromophenol         | 330       | 15.885 | 15.893 | (1.115) | 16277    | 1.50000            | 1.197             |
| 56 4-Bromophenyl-phenylether      | 248       | 16.348 | 16.348 | (0.948) | 27711    | 1.00000            | 1.012             |
| 57 Hexachlorobenzene              | 284       | 16.641 | 16.634 | (0.965) | 31692    | 1.00000            | 1.053             |
| 58 Pentachlorophenol              | 266       | 17.021 | 17.021 | (0.987) | 13941    | 2.00000            | 0.9809 (M)        |
| * 59 Phenanthrene-d10             | 188       | 17.253 | 17.245 | (1.000) | 495615   | 4.00000            |                   |
| 60 Phenanthrene                   | 178       | 17.299 | 17.300 | (1.003) | 138036   | 1.00000            | 1.047             |
| 61 Anthracene                     | 178       | 17.392 | 17.392 | (1.008) | 130667   | 1.00000            | 1.048             |
| 62 Carbazole                      | 167       | 17.740 | 17.748 | (1.028) | 114013   | 1.00000            | 1.044             |
| 63 Di-n-butylphthalate            | 149       | 18.599 | 18.599 | (1.078) | 118065   | 1.00000            | 0.8389            |
| 64 Fluoranthene                   | 202       | 19.721 | 19.721 | (0.882) | 157124   | 1.00000            | 1.041             |
| 65 Pyrene                         | 202       | 20.146 | 20.147 | (0.901) | 166315   | 1.00000            | 1.046             |
| § 66 Terphenyl-d14                | 244       | 20.479 | 20.480 | (0.916) | 131310   | 1.00000            | 1.072             |
| 67 Butylbenzylphthalate           | 149       | 21.447 | 21.447 | (0.959) | 45877    | 1.00000            | 0.8168            |
| 68 Benzo(a)anthracene             | 228       | 22.337 | 22.338 | (0.999) | 143935   | 1.00000            | 1.081             |
| * 69 Chrysene-d12                 | 240       | 22.368 | 22.361 | (1.000) | 397673   | 4.00000            |                   |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.322 | 22.330 | (0.998) | 114067   | 3.00000            | 2.998             |
| 71 Chrysene                       | 228       | 22.407 | 22.415 | (1.002) | 131696   | 1.00000            | 1.029             |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.500 | 22.500 | (0.958) | 60745    | 1.00000            | 0.8484            |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.476 | 23.476 | (1.000) | 469239   | 4.00000            |                   |
| 73 Di-n-octylphthalate            | 149       | 23.491 | 23.484 | (1.001) | 126485   | 1.00000            | 1.024             |
| 74 Benzo(b)fluoranthene           | 252       | 24.103 | 24.103 | (0.975) | 127479   | 1.00000            | 1.007             |
| 75 Benzo(k)fluoranthene           | 252       | 24.134 | 24.134 | (0.977) | 143082   | 1.00000            | 1.047             |
| 76 Benzo(a)pyrene                 | 252       | 24.621 | 24.622 | (0.996) | 111382   | 1.00000            | 1.025             |
| * 77 Perylene-d12                 | 264       | 24.714 | 24.715 | (1.000) | 383322   | 4.00000            |                   |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.784 | 26.793 | (1.084) | 139776   | 1.00000            | 1.022             |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.800 | 26.800 | (1.084) | 120650   | 1.00000            | 1.039             |
| 80 Benzo(g,h,i)perylene           | 276       | 27.383 | 27.391 | (1.108) | 118753   | 1.00000            | 0.9955            |
| 90 N-Nitrosodimethylamine         | 74        | 4.004  | 4.104  | (0.487) | 39573    | 2.00000            | 1.663             |
| 91 Aniline                        | 93        | 7.696  | 7.735  | (0.937) | 99495    | 2.00000            | 1.806             |
| 93 Benzidine                      | 184       | 20.007 | 20.015 | (0.894) | 76786    | 2.00000            | 1.194             |
| 103 Pyridine                      | 79        | 4.027  | 4.027  | (0.490) | 45270    | 1.00000            | 0.6394            |
| 105 1-methylnaphthalene           | 142       | 12.312 | 12.313 | (1.154) | 78806    | 1.00000            | 1.036             |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.677 | 15.677 | (1.100) | 93491    | 1.00000            | 1.098             |

| Compounds                     | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                               | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       |  | 24.103 | 24.103 | (0.975) | 256139   | 2.00000            | 2.068             |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 14.997 | 15.029 | (1.053) | 21792    | 1.00000            | 0.7657            |

### QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023  
 Lab File ID: NT1423022806.D Calibration Time: 12:51  
 Lab Smp Id: SLB0374-CAL3  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 114351   | 57176      | 228702  | 117168 | 2.46  |
| 27 Naphthalene-d8     | 408655   | 204328     | 817310  | 418158 | 2.33  |
| 42 Acenaphthene-d10   | 254000   | 127000     | 508000  | 252184 | -0.71 |
| 59 Phenanthrene-d10   | 490626   | 245313     | 981252  | 495615 | 1.02  |
| 69 Chrysene-d12       | 390400   | 195200     | 780800  | 397673 | 1.86  |
| 134 Di-n-octylphthala | 500829   | 250415     | 1001658 | 469239 | -6.31 |
| 77 Perylene-d12       | 375675   | 187838     | 751350  | 383322 | 2.04  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.21   | 0.00  |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.67  | 0.00  |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.25  | 0.00  |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.25  | 0.00  |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.37  | -0.03 |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.48  | -0.03 |
| 77 Perylene-d12       | 24.72    | 24.22    | 25.22 | 24.71  | -0.03 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022806.D

Lab ID: SLB0374-CAL3  
nt14.i, ABN.m, 28-FEB-2023 14:04

RT CO-ELUTION COMPOUNDS

-----  
13.930 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND               |
|-------|---------|---------|------------------------|
| 1.038 | 1.059   | -0.0209 | Benzyl alcohol         |
| 1.099 | 1.105   | -0.0058 | 4-Methylphenol         |
| 1.000 | 0.000   | 1.0000  | Benzoic acid           |
| 1.012 | 0.000   | 1.0125  | 2,4-Dinitrophenol      |
| 1.023 | 0.000   | 1.0233  | 4-Nitrophenol          |
| 0.987 | 0.000   | 0.9865  | Pentachlorophenol      |
| 0.487 | 0.500   | -0.0127 | N-Nitrosodimethylamine |
| 0.937 | 0.942   | -0.0056 | Aniline                |
| 0.490 | 0.000   | 0.4903  | Pyridine               |
| 0.738 | 0.747   | -0.0082 | 2-Fluorophenol         |

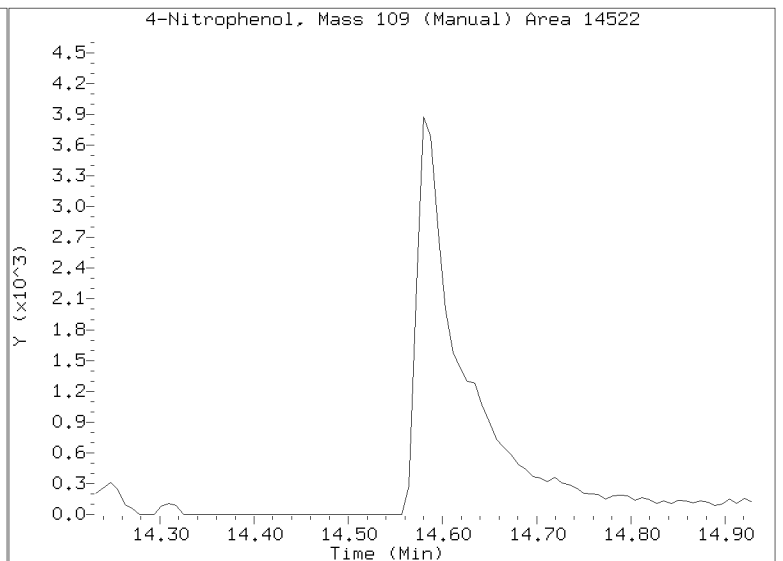
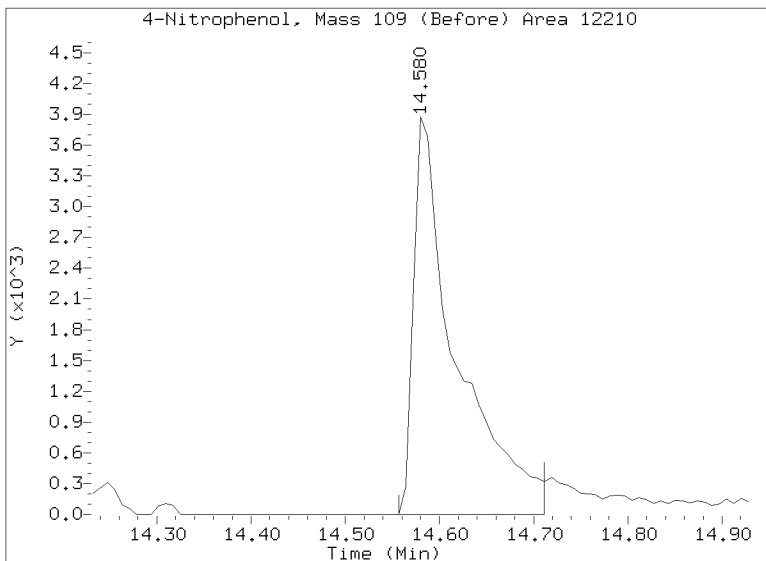
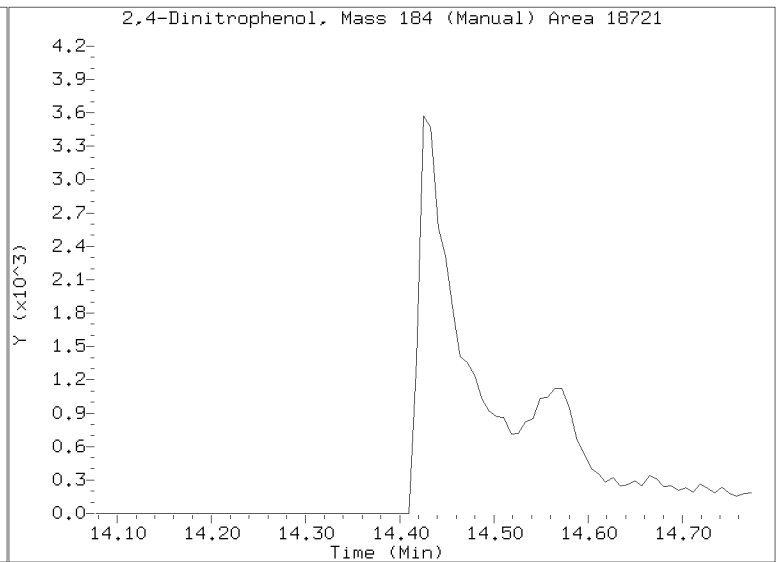
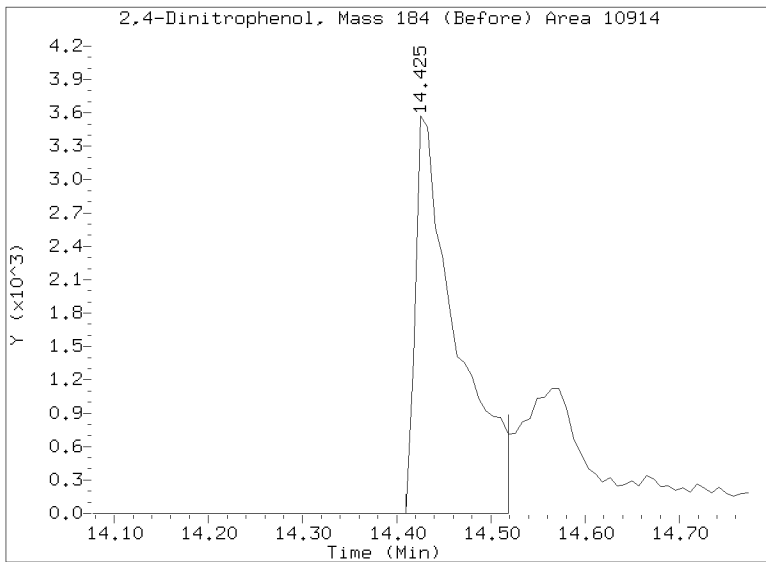
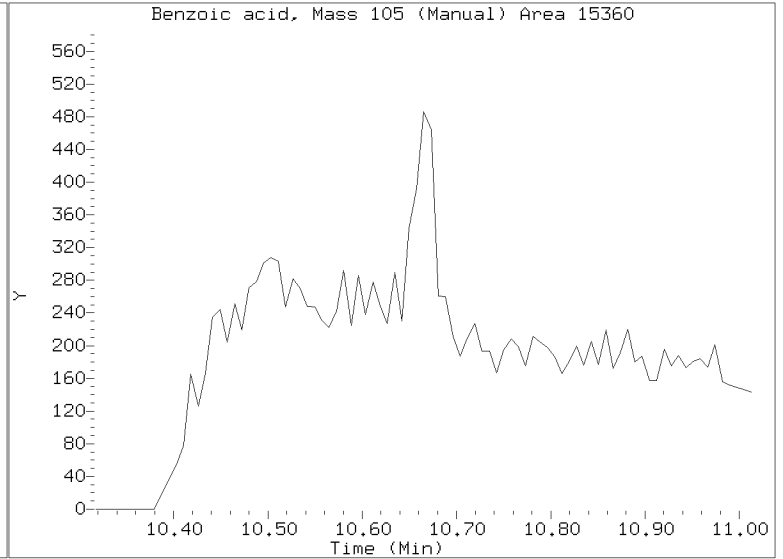
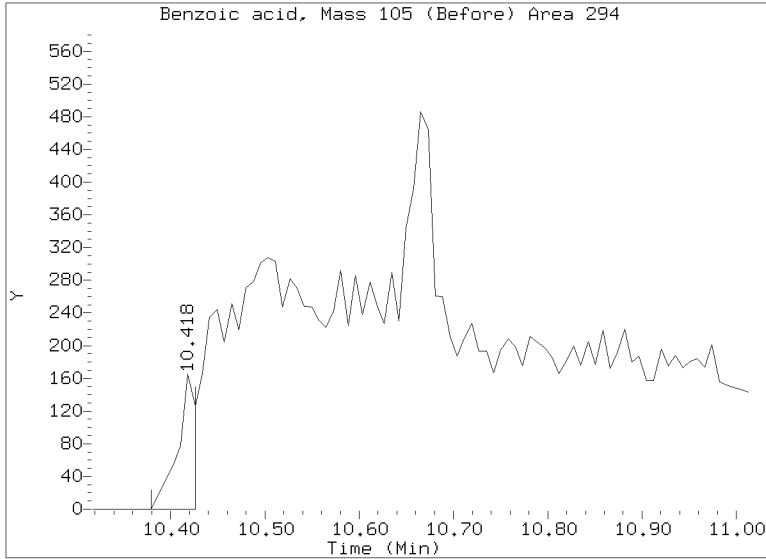
RRT check based on Ccal File: NT1423022808.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022806.D  
Injection Date: 28-FEB-2023 14:04  
Lab ID:SLB0374-CAL3 Client ID:  
Report Date: 03/10/2023 13:21



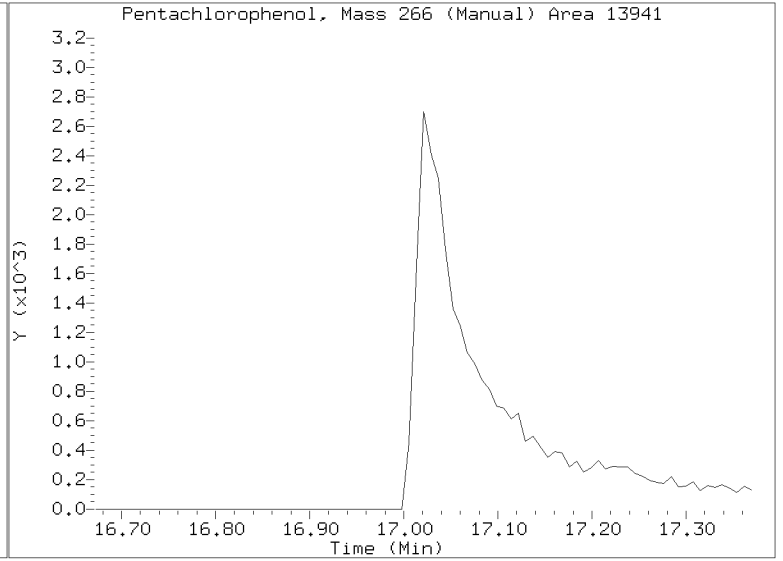
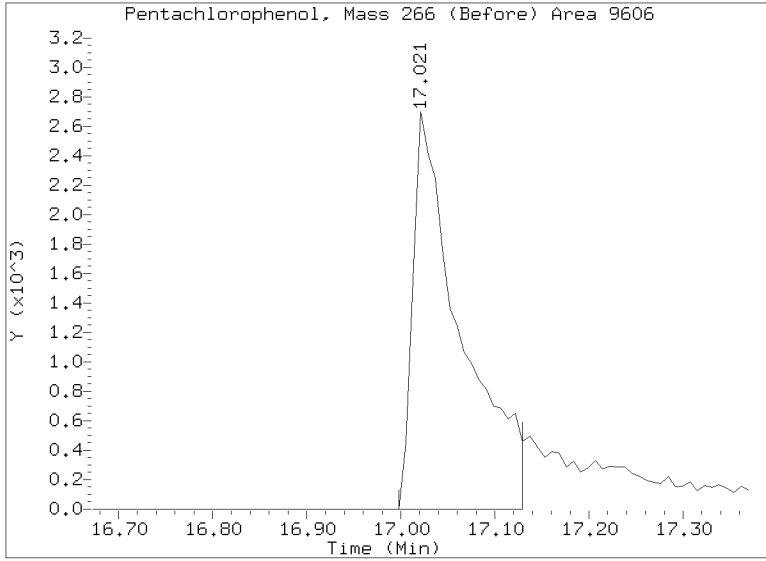
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022806.D

Injection Date: 28-FEB-2023 14:04

Lab ID:SLB0374-CAL3 Client ID:

Report Date: 03/10/2023 13:21



Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022807.D

Date: 28-FEB-2023 14:40

Client ID:

Sample Info: SLB0374-CAL2

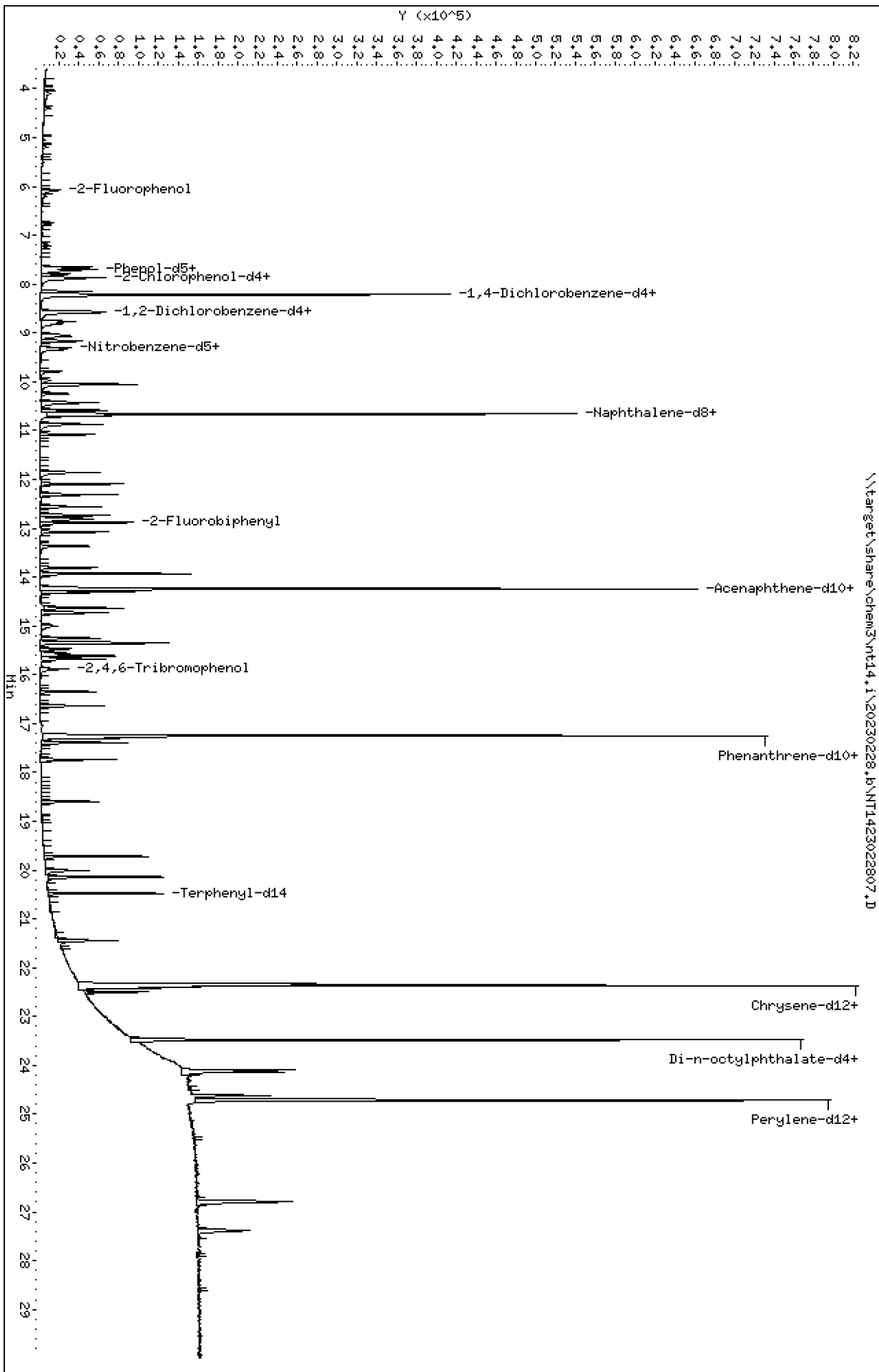
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022807.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022807.D  
 Lab Smp Id: SLB0374-CAL2  
 Inj Date : 28-FEB-2023 14:40 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-CAL2  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 7 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | AMOUNTS |            |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|---------|------------|
|                                 |       |     |                        |        |         |          | CAL-AMT | ON-COL     |
|                                 | MASS  |     |                        |        |         |          | (ug/mL) | (ug/mL)    |
| \$ 1 2-Fluorophenol             | 112   |     | 6.082                  | 6.128  | (0.740) | 24340    | 0.75000 | 0.7108 (M) |
| \$ 2 Phenol-d5                  | 99    |     | 7.650                  | 7.665  | (0.931) | 34027    | 0.75000 | 0.6999     |
| 3 Phenol                        | 94    |     | 7.673                  | 7.681  | (0.934) | 27331    | 0.50000 | 0.4711     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.866                  | 7.882  | (0.958) | 29542    | 0.75000 | 0.7146     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.797                  | 7.805  | (0.949) | 21291    | 0.50000 | 0.5210     |
| 6 2-Chlorophenol                | 128   |     | 7.897                  | 7.905  | (0.961) | 20982    | 0.50000 | 0.4910     |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.153                  | 8.153  | (0.992) | 24624    | 0.50000 | 0.5229     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.215                  | 8.207  | (1.000) | 126289   | 4.00000 |            |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.246                  | 8.246  | (1.004) | 24330    | 0.50000 | 0.5228     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.564                  | 8.572  | (1.043) | 16123    | 0.50000 | 0.5180     |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.595                  | 8.595  | (1.046) | 23444    | 0.50000 | 0.5253     |
| 11 Benzyl alcohol               | 108   |     | 8.548                  | 8.688  | (1.041) | 7780     | 0.50000 | 0.3075 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.812                  | 8.812  | (1.073) | 6089     | 0.50000 | 0.5059     |
| 13 2-Methylphenol               | 108   |     | 8.766                  | 8.774  | (1.067) | 17130    | 0.50000 | 0.4674     |
| 17 Hexachloroethane             | 117   |     | 9.169                  | 9.162  | (1.116) | 8583     | 0.50000 | 0.4911     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.069                  | 9.076  | (1.104) | 12823    | 0.50000 | 0.4596     |
| 15 4-Methylphenol               | 108   |     | 9.037                  | 9.069  | (1.100) | 15637    | 0.50000 | 0.3665     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.309                  | 9.317  | (0.873) | 20910    | 0.50000 | 0.4803     |
| 19 Nitrobenzene                 | 77    |     | 9.340                  | 9.356  | (0.876) | 20431    | 0.50000 | 0.4883     |
| 20 Isophorone                   | 82    |     | 9.790                  | 9.806  | (0.918) | 23868    | 0.50000 | 0.3652     |
| 21 2-Nitrophenol                | 139   |     | 9.976                  | 9.992  | (0.935) | 4693     | 0.50000 | 0.2167     |
| 22 2,4-Dimethylphenol           | 107   |     | 10.054                 | 10.062 | (0.943) | 39712    | 1.00000 | 1.041      |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.248                 | 10.256 | (0.961) | 22357    | 0.50000 | 0.5315     |
| 24 Benzoic acid                 | 105   |     | Compound Not Detected. |        |         |          |         |            |
| 25 2,4-Dichlorophenol           | 162   |     | 10.426                 | 10.441 | (0.978) | 29846    | 1.00000 | 0.7731     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.588                 | 10.588 | (0.993) | 22803    | 0.50000 | 0.5290     |
| * 27 Naphthalene-d8             | 136   |     | 10.665                 | 10.665 | (1.000) | 445088   | 4.00000 |            |
| 28 Naphthalene                  | 128   |     | 10.704                 | 10.704 | (1.004) | 62560    | 0.50000 | 0.5269     |
| 29 4-Chloroaniline              | 127   |     | 10.874                 | 10.889 | (1.020) | 46350    | 1.00000 | 0.9128     |
| 30 Hexachlorobutadiene          | 225   |     | 11.082                 | 11.082 | (1.039) | 13120    | 0.50000 | 0.4988     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.856                 | 11.872 | (1.112) | 28906    | 1.00000 | 0.8419     |
| 32 2-Methylnaphthalene          | 142   |     | 12.096                 | 12.096 | (1.134) | 45234    | 0.50000 | 0.5145     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.560                 | 12.560 | (0.882) | 17596    | 1.00000 | 0.6250     |



| Compounds                         | QUANT SIG |        |        |         |          | AMOUNTS            |                   |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 12.731 | 12.746 | (0.894) | 21131    | 1.00000            | 0.8064            |
| 35 2,4,5-Trichlorophenol          | 196       | 12.808 | 12.831 | (0.899) | 21572    | 1.00000            | 0.7614            |
| § 36 2-Fluorobiphenyl             | 172       | 12.885 | 12.893 | (0.904) | 53957    | 0.50000            | 0.5168            |
| 37 2-Chloronaphthalene            | 162       | 13.079 | 13.079 | (0.918) | 42411    | 0.50000            | 0.5067            |
| 38 2-Nitroaniline                 | 65        | 13.365 | 13.373 | (0.938) | 17779    | 1.00000            | 0.8145            |
| 39 Dimethylphthalate              | 163       | 13.806 | 13.814 | (0.969) | 42857    | 0.50000            | 0.5079            |
| 40 Acenaphthylene                 | 152       | 13.930 | 13.938 | (0.978) | 63411    | 0.50000            | 0.5163            |
| 41 2,6-Dinitrotoluene             | 165       | 13.930 | 13.938 | (0.978) | 18015    | 1.00000            | 0.9111            |
| * 42 Acenaphthene-d10             | 164       | 14.247 | 14.247 | (1.000) | 268255   | 4.00000            |                   |
| 43 3-Nitroaniline                 | 138       | 14.217 | 14.232 | (0.998) | 16369    | 1.00000            | 0.8077            |
| 44 Acenaphthene                   | 153       | 14.309 | 14.309 | (1.004) | 40351    | 0.50000            | 0.5132            |
| 45 2,4-Dinitrophenol              | 184       | 14.588 | 14.425 | (1.024) | 3318     | 2.00000            | 0.2654 (M)        |
| 46 Dibenzofuran                   | 168       | 14.642 | 14.642 | (1.028) | 64625    | 0.50000            | 0.5165            |
| 47 4-Nitrophenol                  | 109       | 14.603 | 14.580 | (1.025) | 5053     | 1.00000            | 0.5045 (M)        |
| 48 2,4-Dinitrotoluene             | 165       | 14.727 | 14.734 | (1.034) | 24410    | 1.00000            | 0.8576            |
| 50 Diethylphthalate               | 149       | 15.253 | 15.260 | (1.071) | 39348    | 0.50000            | 0.4987            |
| 49 Fluorene                       | 166       | 15.345 | 15.345 | (1.077) | 55465    | 0.50000            | 0.5261            |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.361 | 15.361 | (1.078) | 29519    | 0.50000            | 0.5263            |
| 52 4-Nitroaniline                 | 138       | 15.469 | 15.492 | (1.086) | 14840    | 1.00000            | 0.7387            |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.562 | 15.608 | (0.902) | 16032    | 2.00000            | 0.9126 (M)        |
| 54 N-Nitrosodiphenylamine         | 169       | 15.615 | 15.616 | (0.905) | 34934    | 0.50000            | 0.5261            |
| § 55 2,4,6-Tribromophenol         | 330       | 15.885 | 15.893 | (1.115) | 7171     | 0.75000            | 0.4972            |
| 56 4-Bromophenyl-phenylether      | 248       | 16.348 | 16.348 | (0.948) | 14286    | 0.50000            | 0.4894            |
| 57 Hexachlorobenzene              | 284       | 16.642 | 16.634 | (0.965) | 16223    | 0.50000            | 0.5055            |
| 58 Pentachlorophenol              | 266       | 17.036 | 17.021 | (0.987) | 3531     | 1.00000            | 0.2338 (M)        |
| * 59 Phenanthrene-d10             | 188       | 17.253 | 17.245 | (1.000) | 528369   | 4.00000            |                   |
| 60 Phenanthrene                   | 178       | 17.300 | 17.300 | (1.003) | 73593    | 0.50000            | 0.5236            |
| 61 Anthracene                     | 178       | 17.392 | 17.392 | (1.008) | 65397    | 0.50000            | 0.4922            |
| 62 Carbazole                      | 167       | 17.741 | 17.748 | (1.028) | 59393    | 0.50000            | 0.5100            |
| 63 Di-n-butylphthalate            | 149       | 18.599 | 18.599 | (1.078) | 52453    | 0.50000            | 0.3489            |
| 64 Fluoranthene                   | 202       | 19.721 | 19.721 | (0.882) | 80295    | 0.50000            | 0.4929            |
| 65 Pyrene                         | 202       | 20.147 | 20.147 | (0.901) | 86193    | 0.50000            | 0.5019            |
| § 66 Terphenyl-d14                | 244       | 20.479 | 20.480 | (0.916) | 69231    | 0.50000            | 0.5236            |
| 67 Butylbenzylphthalate           | 149       | 21.447 | 21.447 | (0.959) | 19811    | 0.50000            | 0.3260            |
| 68 Benzo(a)anthracene             | 228       | 22.338 | 22.338 | (0.999) | 76726    | 0.50000            | 0.5335            |
| * 69 Chrysene-d12                 | 240       | 22.369 | 22.361 | (1.000) | 429353   | 4.00000            |                   |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.322 | 22.330 | (0.998) | 64154    | 1.50000            | 1.562             |
| 71 Chrysene                       | 228       | 22.408 | 22.415 | (1.002) | 71918    | 0.50000            | 0.5202            |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.500 | 22.500 | (0.958) | 25596    | 0.50000            | 0.3408            |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.476 | 23.476 | (1.000) | 491860   | 4.00000            |                   |
| 73 Di-n-octylphthalate            | 149       | 23.491 | 23.484 | (1.001) | 68170    | 0.50000            | 0.5264            |
| 74 Benzo(b)fluoranthene           | 252       | 24.103 | 24.103 | (0.975) | 69029    | 0.50000            | 0.4988            |
| 75 Benzo(k)fluoranthene           | 252       | 24.142 | 24.134 | (0.977) | 75622    | 0.50000            | 0.5065            |
| 76 Benzo(a)pyrene                 | 252       | 24.622 | 24.622 | (0.996) | 56125    | 0.50000            | 0.4727            |
| * 77 Perylene-d12                 | 264       | 24.715 | 24.715 | (1.000) | 418883   | 4.00000            |                   |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.785 | 26.793 | (1.084) | 71788    | 0.50000            | 0.4803            |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.800 | 26.800 | (1.084) | 62200    | 0.50000            | 0.4900            |
| 80 Benzo(g,h,i)perylene           | 276       | 27.383 | 27.391 | (1.108) | 61778    | 0.50000            | 0.4739            |
| 90 N-Nitrosodimethylamine         | 74        | 4.012  | 4.104  | (0.488) | 16001    | 1.00000            | 0.6176            |
| 91 Aniline                        | 93        | 7.704  | 7.735  | (0.938) | 45900    | 1.00000            | 0.7678            |
| 93 Benzidine                      | 184       | 20.007 | 20.015 | (0.894) | 38356    | 1.00000            | 0.5510            |
| 103 Pyridine                      | 79        | 4.089  | 4.027  | (0.498) | 26705    | 0.50000            | 0.3489 (M)        |
| 105 1-methylnaphthalene           | 142       | 12.313 | 12.313 | (1.154) | 41268    | 0.50000            | 0.5099            |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.677 | 15.677 | (1.100) | 47416    | 0.50000            | 0.5235            |

| Compounds                     | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                               | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       |  | 24.103 | 24.103 | (0.975) | 135967   | 1.00000            | 1.004             |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 15.005 | 15.029 | (1.053) | 9077     | 0.50000            | 0.3006            |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023  
 Lab File ID: NT1423022807.D Calibration Time: 12:51  
 Lab Smp Id: SLB0374-CAL2  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 114351   | 57176      | 228702  | 126289 | 10.44 |
| 27 Naphthalene-d8     | 408655   | 204328     | 817310  | 445088 | 8.92  |
| 42 Acenaphthene-d10   | 254000   | 127000     | 508000  | 268255 | 5.61  |
| 59 Phenanthrene-d10   | 490626   | 245313     | 981252  | 528369 | 7.69  |
| 69 Chrysene-d12       | 390400   | 195200     | 780800  | 429353 | 9.98  |
| 134 Di-n-octylphthala | 500829   | 250415     | 1001658 | 491860 | -1.79 |
| 77 Perylene-d12       | 375675   | 187838     | 751350  | 418883 | 11.50 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.22   | 0.01  |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.67  | 0.00  |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.25  | 0.00  |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.25  | 0.00  |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.37  | -0.03 |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.48  | -0.03 |
| 77 Perylene-d12       | 24.72    | 24.22    | 25.22 | 24.72  | -0.03 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022807.D

Lab ID: SLB0374-CAL2  
nt14.i, ABN.m, 28-FEB-2023 14:40

RT CO-ELUTION COMPOUNDS

-----  
13.931 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND               |
|-------|---------|---------|------------------------|
| 1.041 | 1.059   | -0.0180 | Benzyl alcohol         |
| 1.024 | 0.000   | 1.0239  | 2,4-Dinitrophenol      |
| 1.025 | 0.000   | 1.0250  | 4-Nitrophenol          |
| 0.987 | 0.000   | 0.9874  | Pentachlorophenol      |
| 0.488 | 0.500   | -0.0117 | N-Nitrosodimethylamine |
| 0.498 | 0.000   | 0.4978  | Pyridine               |
| 0.740 | 0.747   | -0.0064 | 2-Fluorophenol         |

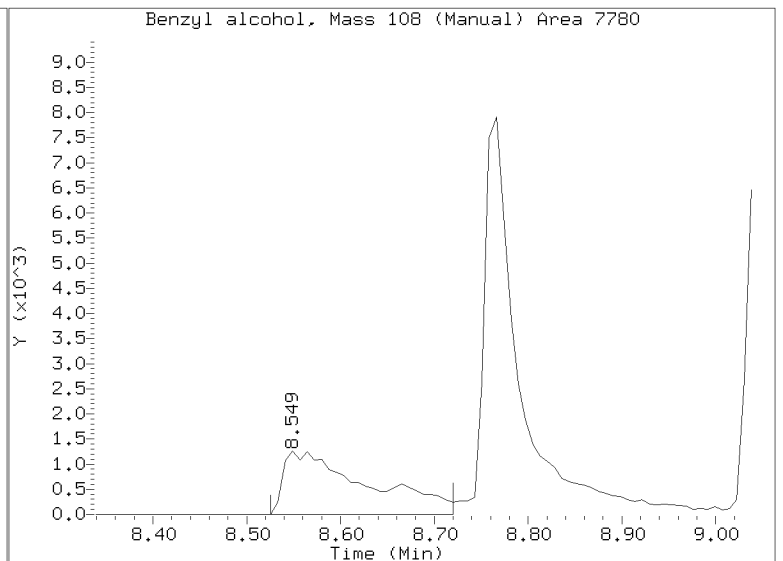
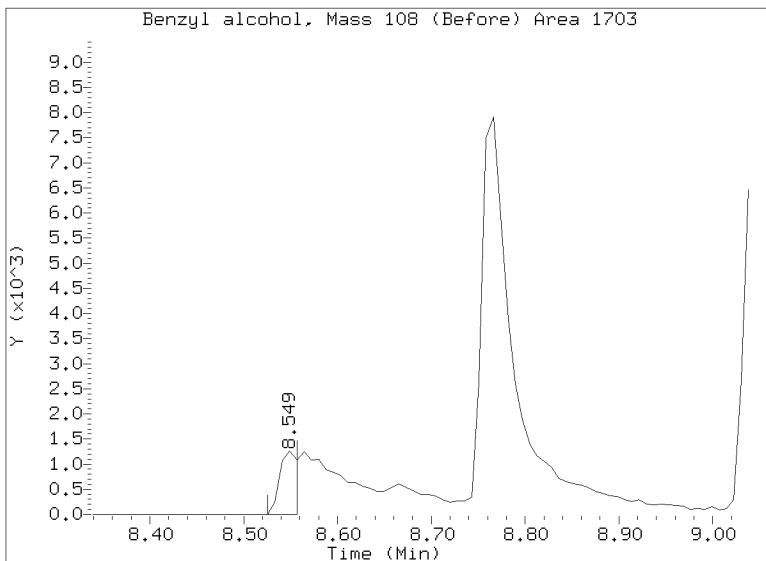
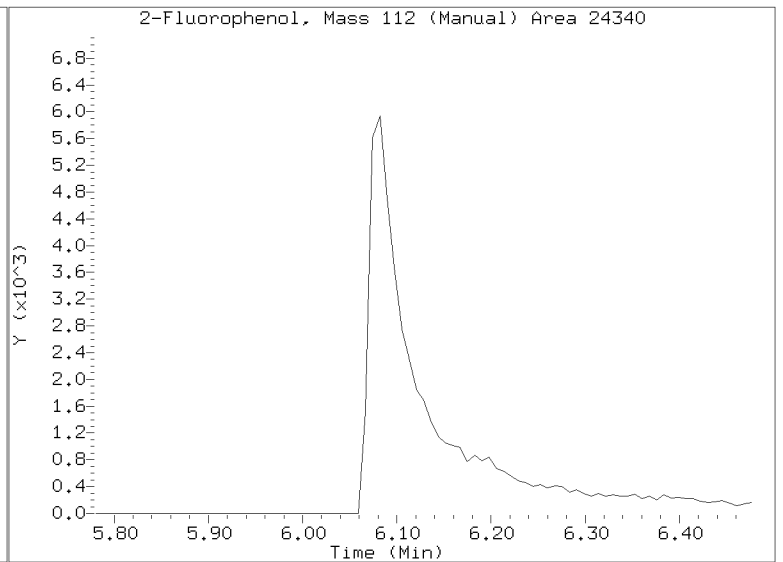
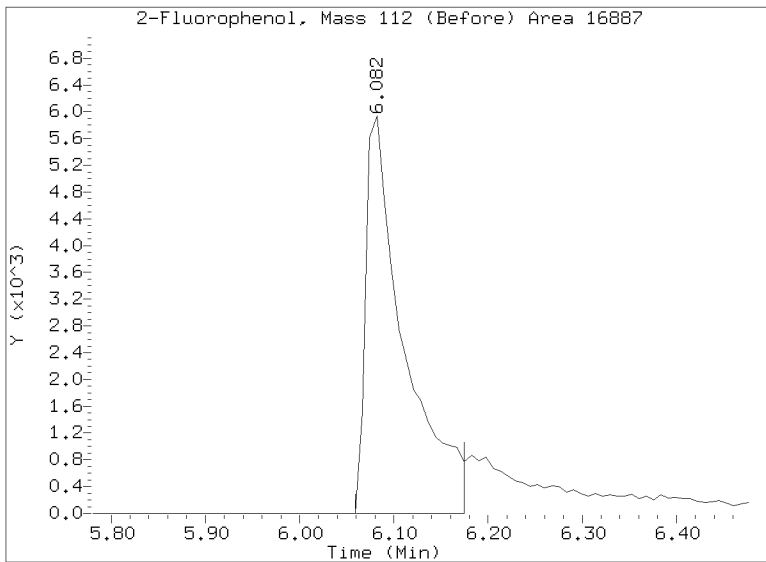
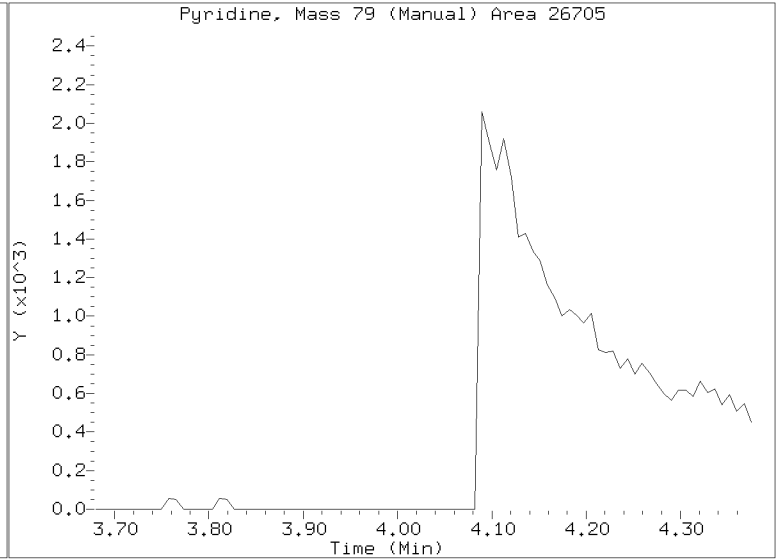
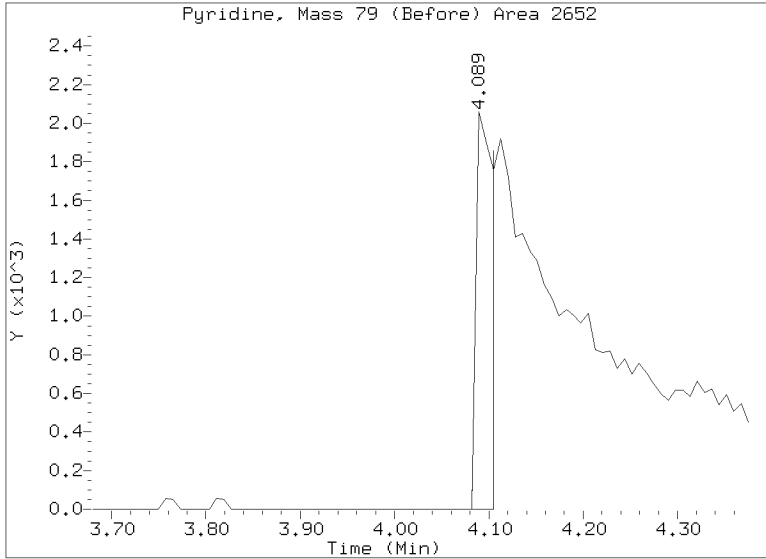
RRT check based on Ccal File: NT1423022808.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022807.D  
Injection Date: 28-FEB-2023 14:40  
Lab ID:SLB0374-CAL2 Client ID:  
Report Date: 03/10/2023 13:21



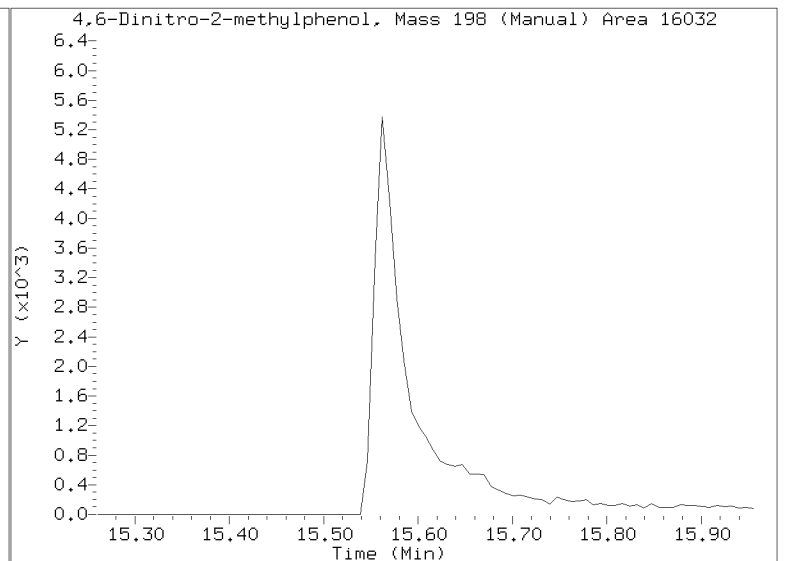
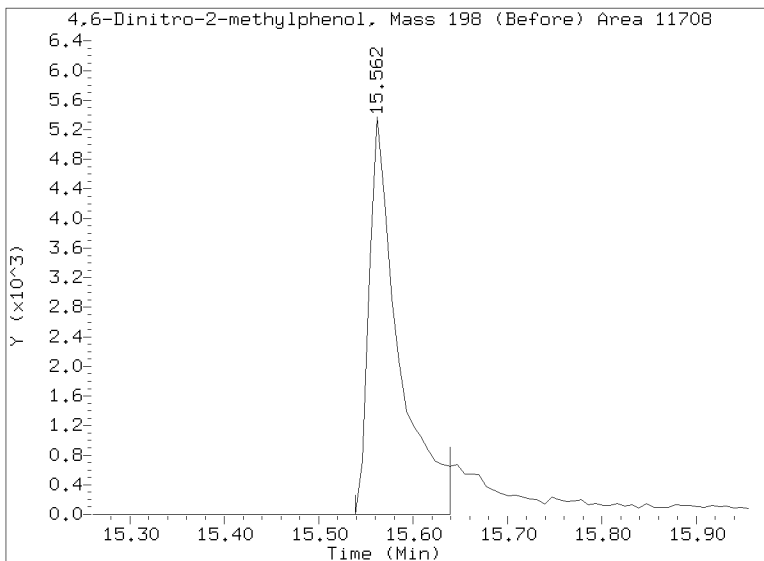
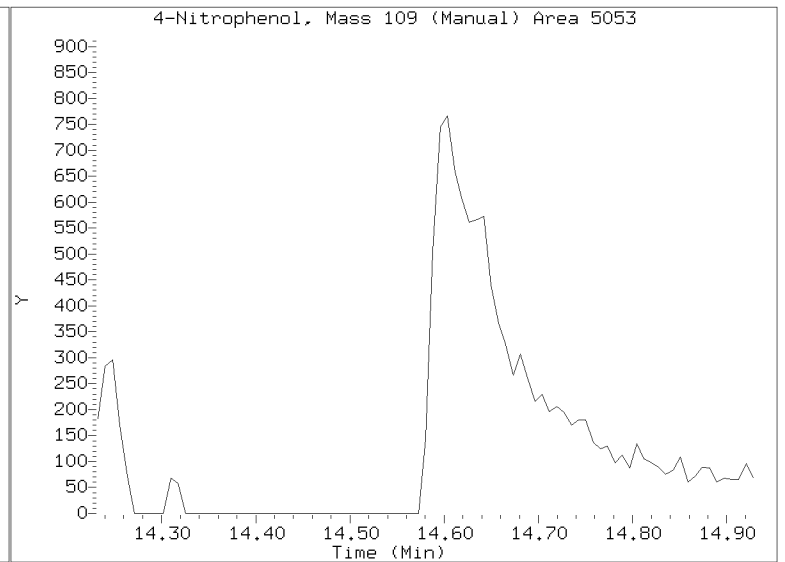
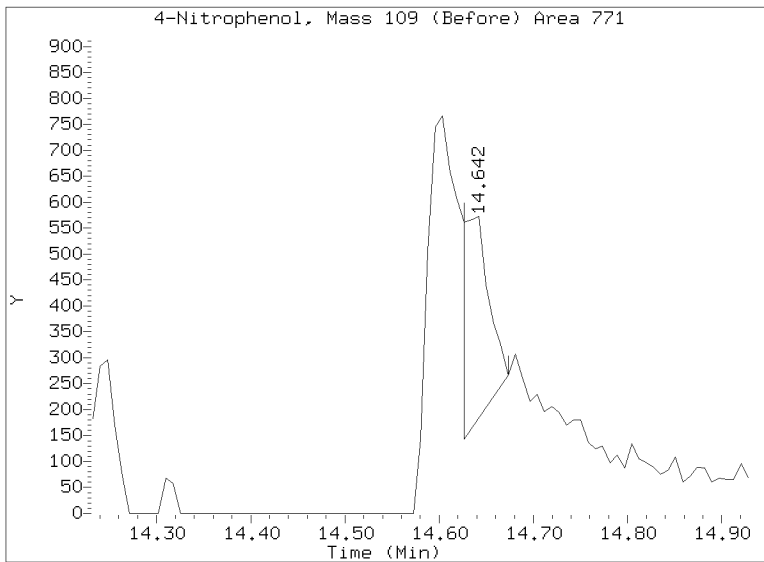
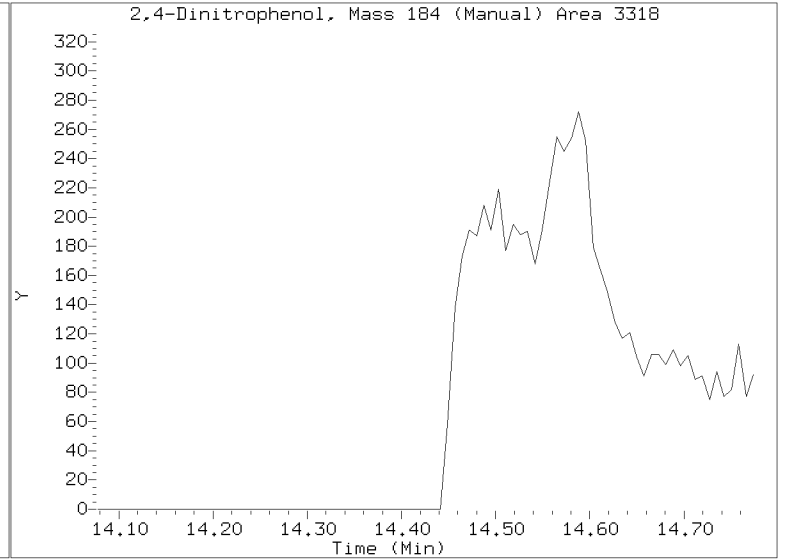
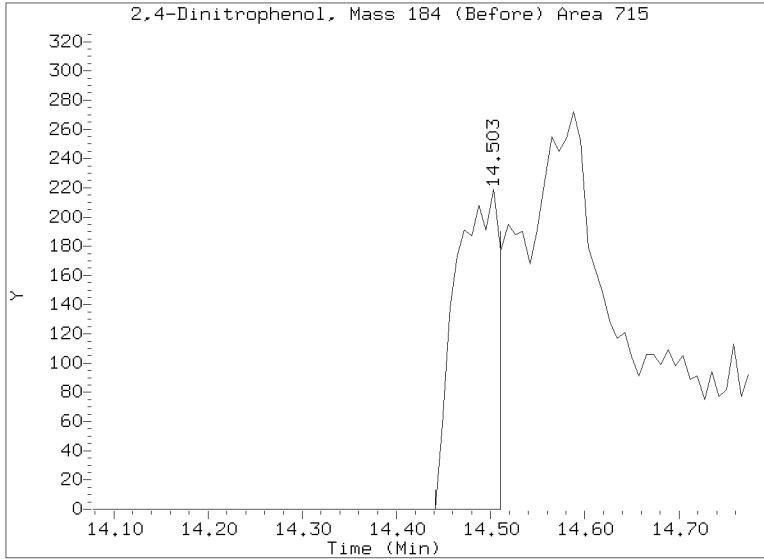
# Quant Ion Manual Peak Adjustment Report

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Injection Date: 28-FEB-2023 14:40

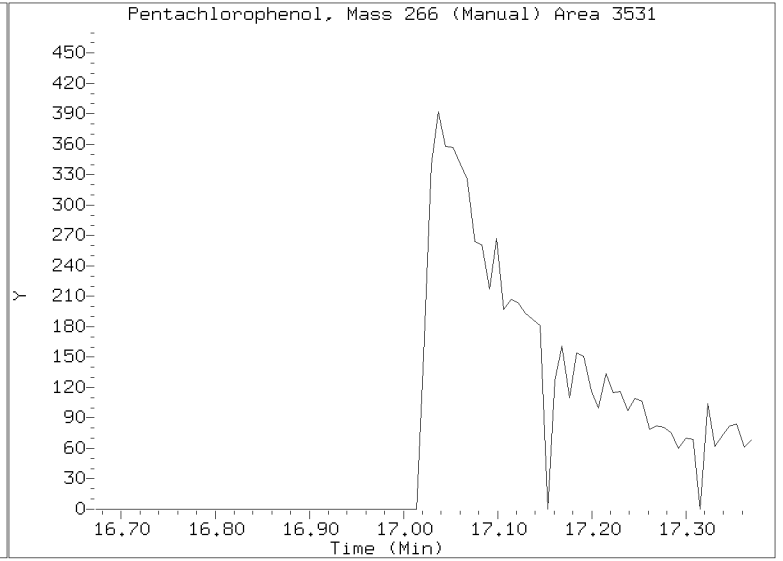
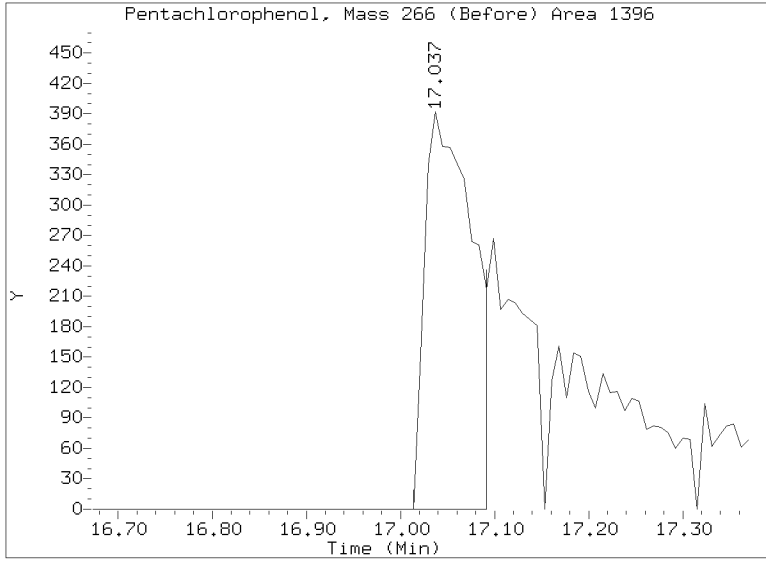
Lab ID: SLB0374-CAL2 Client ID:

Report Date: 03/10/2023 13:21



Quant Ion Manual Peak Adjustment Report

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Injection Date: 28-FEB-2023 14:40  
Lab ID:SLB0374-CAL2 Client ID:  
Report Date: 03/10/2023 13:21



Data File: \\target\share\chem3\nt14,1\20230228 JB\NT1423022808.D

Date: 28-FEB-2023 15:16

Client ID:

Sample Info: SLB0374-CAL1

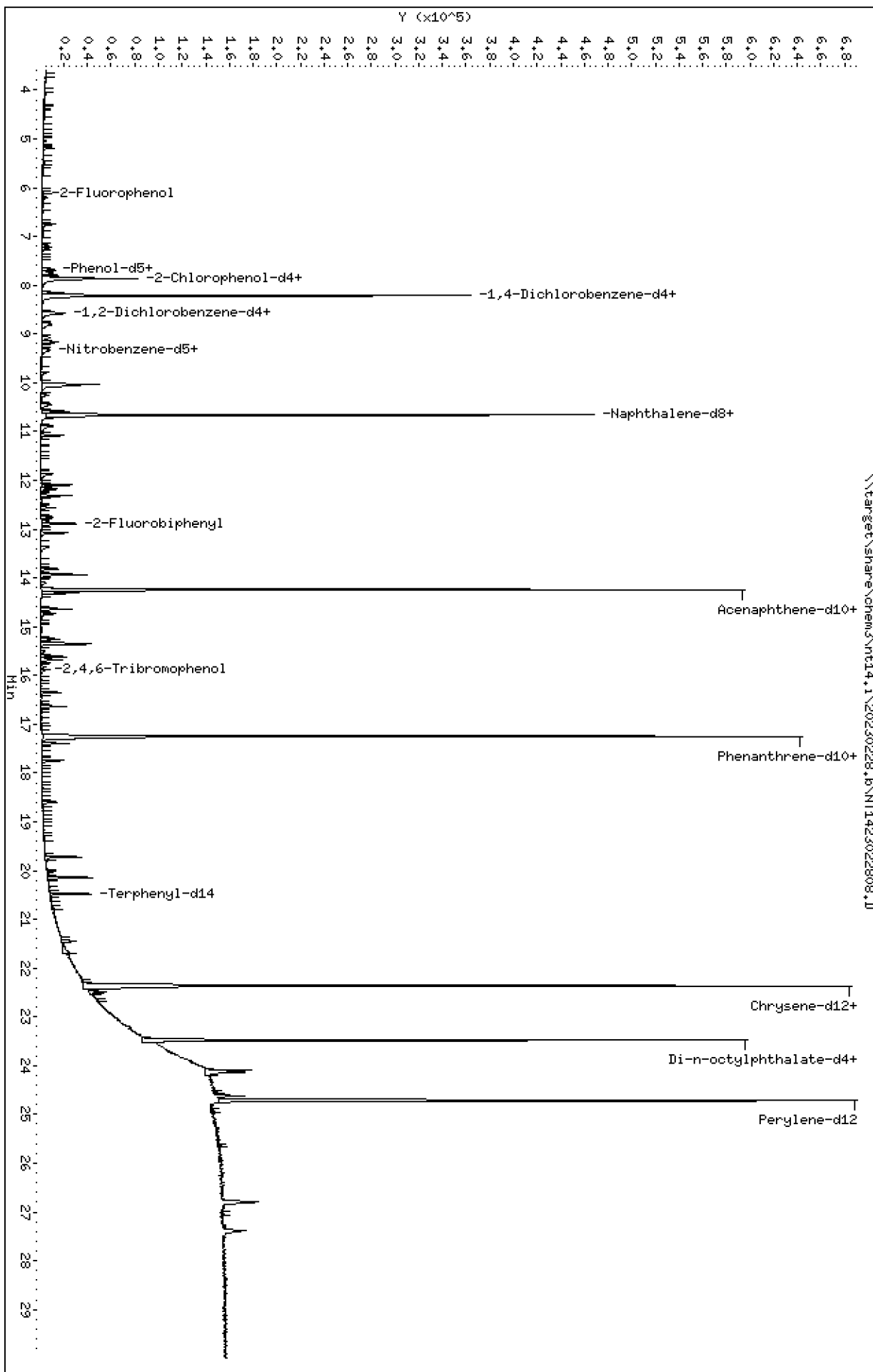
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Page 1





ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022808.D  
 Lab Smp Id: SLB0374-CAL1  
 Inj Date : 28-FEB-2023 15:16 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-CAL1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 8 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | AMOUNTS            |                   |  |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|--------------------|-------------------|--|
|                                 |       |     |                        |        |         |          | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |  |
| \$ 1 2-Fluorophenol             | 112   |     | 6.128                  | 6.128  | (0.747) | 6554     | 0.30000            | 0.2126 (M)        |  |
| \$ 2 Phenol-d5                  | 99    |     | 7.665                  | 7.665  | (0.934) | 9517     | 0.30000            | 0.2174            |  |
| 3 Phenol                        | 94    |     | 7.681                  | 7.681  | (0.936) | 9737     | 0.20000            | 0.1864 (M)        |  |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.882                  | 7.882  | (0.960) | 9808     | 0.30000            | 0.2635 (M)        |  |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.805                  | 7.805  | (0.951) | 17505    | 0.20000            | 0.4756 (M)        |  |
| 6 2-Chlorophenol                | 128   |     | 7.905                  | 7.905  | (0.963) | 6301     | 0.20000            | 0.1638 (M)        |  |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.153                  | 8.153  | (0.993) | 8936     | 0.20000            | 0.2108            |  |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.207                  | 8.207  | (1.000) | 113699   | 4.00000            |                   |  |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.246                  | 8.246  | (1.005) | 8261     | 0.20000            | 0.1972            |  |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.572                  | 8.572  | (1.044) | 6074     | 0.20000            | 0.2168            |  |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.595                  | 8.595  | (1.047) | 8296     | 0.20000            | 0.2065            |  |
| 11 Benzyl alcohol               | 108   |     | 8.688                  | 8.688  | (1.059) | 1301     | 0.20000            | 0.05716 (M)       |  |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.812                  | 8.812  | (1.074) | 2138     | 0.20000            | 0.1973            |  |
| 13 2-Methylphenol               | 108   |     | 8.774                  | 8.774  | (1.069) | 4681     | 0.20000            | 0.1419            |  |
| 17 Hexachloroethane             | 117   |     | 9.162                  | 9.162  | (1.116) | 2909     | 0.20000            | 0.1849            |  |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.076                  | 9.076  | (1.106) | 3907     | 0.20000            | 0.1555 (M)        |  |
| 15 4-Methylphenol               | 108   |     | 9.069                  | 9.069  | (1.105) | 3178     | 0.20000            | 0.08263           |  |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.317                  | 9.317  | (0.874) | 5728     | 0.20000            | 0.1462            |  |
| 19 Nitrobenzene                 | 77    |     | 9.356                  | 9.356  | (0.877) | 5763     | 0.20000            | 0.1531            |  |
| 20 Isophorone                   | 82    |     | 9.806                  | 9.806  | (0.919) | 6703     | 0.20000            | 0.1139            |  |
| 21 2-Nitrophenol                | 139   |     | 9.992                  | 9.992  | (0.937) | 1099     | 0.20000            | 0.05643 (M)       |  |
| 22 2,4-Dimethylphenol           | 107   |     | 10.062                 | 10.062 | (0.943) | 11546    | 0.40000            | 0.3365            |  |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.256                 | 10.256 | (0.962) | 6251     | 0.20000            | 0.1652            |  |
| 24 Benzoic acid                 | 105   |     | Compound Not Detected. |        |         |          |                    |                   |  |
| 25 2,4-Dichlorophenol           | 162   |     | 10.441                 | 10.441 | (0.979) | 7177     | 0.40000            | 0.2060            |  |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.588                 | 10.588 | (0.993) | 8045     | 0.20000            | 0.2075            |  |
| * 27 Naphthalene-d8             | 136   |     | 10.665                 | 10.665 | (1.000) | 400412   | 4.00000            |                   |  |
| 28 Naphthalene                  | 128   |     | 10.704                 | 10.704 | (1.004) | 22417    | 0.20000            | 0.2099            |  |
| 29 4-Chloroaniline              | 127   |     | 10.889                 | 10.889 | (1.021) | 13355    | 0.40000            | 0.2923 (M)        |  |
| 30 Hexachlorobutadiene          | 225   |     | 11.082                 | 11.082 | (1.039) | 4554     | 0.20000            | 0.1924            |  |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.872                 | 11.872 | (1.113) | 7502     | 0.40000            | 0.2429            |  |
| 32 2-Methylnaphthalene          | 142   |     | 12.096                 | 12.096 | (1.134) | 14878    | 0.20000            | 0.1881            |  |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.560                 | 12.560 | (0.882) | 3671     | 0.40000            | 0.1473            |  |

| Compounds                         | QUANT | SIG |                        |        |         |        |          | AMOUNTS            |                   |
|-----------------------------------|-------|-----|------------------------|--------|---------|--------|----------|--------------------|-------------------|
|                                   |       |     | MASS                   | RT     | EXP RT  | REL RT | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     | 12.746                 | 12.746 | (0.895) | 4396   | 0.40000  | 0.1894             |                   |
| 35 2,4,5-Trichlorophenol          | 196   |     | 12.831                 | 12.831 | (0.901) | 6238   | 0.40000  | 0.2486 (M)         |                   |
| § 36 2-Fluorobiphenyl             | 172   |     | 12.893                 | 12.893 | (0.905) | 18669  | 0.20000  | 0.2019             |                   |
| 37 2-Chloronaphthalene            | 162   |     | 13.079                 | 13.079 | (0.918) | 14344  | 0.20000  | 0.1935             |                   |
| 38 2-Nitroaniline                 | 65    |     | 13.373                 | 13.373 | (0.939) | 3724   | 0.40000  | 0.1926             |                   |
| 39 Dimethylphthalate              | 163   |     | 13.814                 | 13.814 | (0.970) | 11975  | 0.20000  | 0.1602             |                   |
| 40 Acenaphthylene                 | 152   |     | 13.938                 | 13.938 | (0.978) | 19325  | 0.20000  | 0.1776             |                   |
| 41 2,6-Dinitrotoluene             | 165   |     | 13.938                 | 13.938 | (0.978) | 4486   | 0.40000  | 0.2561             |                   |
| * 42 Acenaphthene-d10             | 164   |     | 14.247                 | 14.247 | (1.000) | 237606 | 4.00000  |                    |                   |
| 43 3-Nitroaniline                 | 138   |     | 14.232                 | 14.232 | (0.999) | 3425   | 0.40000  | 0.1908 (M)         |                   |
| 44 Acenaphthene                   | 153   |     | 14.309                 | 14.309 | (1.004) | 14307  | 0.20000  | 0.2054             |                   |
| 45 2,4-Dinitrophenol              | 184   |     | Compound Not Detected. |        |         |        |          |                    |                   |
| 46 Dibenzofuran                   | 168   |     | 14.642                 | 14.642 | (1.028) | 21433  | 0.20000  | 0.1934             |                   |
| 47 4-Nitrophenol                  | 109   |     | Compound Not Detected. |        |         |        |          |                    |                   |
| 48 2,4-Dinitrotoluene             | 165   |     | 14.734                 | 14.734 | (1.034) | 4644   | 0.40000  | 0.1842             |                   |
| 50 Diethylphthalate               | 149   |     | 15.260                 | 15.260 | (1.071) | 10798  | 0.20000  | 0.1545             |                   |
| 49 Fluorene                       | 166   |     | 15.345                 | 15.345 | (1.077) | 18501  | 0.20000  | 0.1981             |                   |
| 51 4-Chlorophenyl-phenylether     | 204   |     | 15.361                 | 15.361 | (1.078) | 10754  | 0.20000  | 0.2165             |                   |
| 52 4-Nitroaniline                 | 138   |     | 15.492                 | 15.492 | (1.087) | 2740   | 0.40000  | 0.1540 (M)         |                   |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     | 15.608                 | 15.608 | (0.905) | 1106   | 0.80000  | 0.07158 (M)        |                   |
| 54 N-Nitrosodiphenylamine         | 169   |     | 15.616                 | 15.616 | (0.905) | 10356  | 0.20000  | 0.1772             |                   |
| § 55 2,4,6-Tribromophenol         | 330   |     | 15.893                 | 15.893 | (1.115) | 1358   | 0.30000  | 0.1065 (M)         |                   |
| 56 4-Bromophenyl-phenylether      | 248   |     | 16.348                 | 16.348 | (0.948) | 4497   | 0.20000  | 0.1751             |                   |
| 57 Hexachlorobenzene              | 284   |     | 16.634                 | 16.634 | (0.965) | 5615   | 0.20000  | 0.1988             |                   |
| 58 Pentachlorophenol              | 266   |     | Compound Not Detected. |        |         |        |          |                    |                   |
| * 59 Phenanthrene-d10             | 188   |     | 17.245                 | 17.245 | (1.000) | 464964 | 4.00000  |                    |                   |
| 60 Phenanthrene                   | 178   |     | 17.300                 | 17.300 | (1.003) | 25372  | 0.20000  | 0.2051             |                   |
| 61 Anthracene                     | 178   |     | 17.392                 | 17.392 | (1.009) | 19028  | 0.20000  | 0.1627             |                   |
| 62 Carbazole                      | 167   |     | 17.748                 | 17.748 | (1.029) | 17639  | 0.20000  | 0.1721             |                   |
| 63 Di-n-butylphthalate            | 149   |     | 18.599                 | 18.599 | (1.079) | 11994  | 0.20000  | 0.09057            |                   |
| 64 Fluoranthene                   | 202   |     | 19.721                 | 19.721 | (0.882) | 24002  | 0.20000  | 0.1724             |                   |
| 65 Pyrene                         | 202   |     | 20.147                 | 20.147 | (0.901) | 26308  | 0.20000  | 0.1793             |                   |
| § 66 Terphenyl-d14                | 244   |     | 20.480                 | 20.480 | (0.916) | 22131  | 0.20000  | 0.1959             |                   |
| 67 Butylbenzylphthalate           | 149   |     | 21.447                 | 21.447 | (0.959) | 3827   | 0.20000  | 0.07363            |                   |
| 68 Benzo(a)anthracene             | 228   |     | 22.338                 | 22.338 | (0.999) | 23095  | 0.20000  | 0.1879             |                   |
| * 69 Chrysene-d12                 | 240   |     | 22.361                 | 22.361 | (1.000) | 366875 | 4.00000  |                    |                   |
| 70 3,3'-Dichlorobenzidine         | 252   |     | 22.330                 | 22.330 | (0.999) | 16148  | 0.60000  | 0.4601             |                   |
| 71 Chrysene                       | 228   |     | 22.415                 | 22.415 | (1.002) | 24020  | 0.20000  | 0.2033             |                   |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 22.500                 | 22.500 | (0.958) | 5298   | 0.20000  | 0.09075            |                   |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 23.476                 | 23.476 | (1.000) | 382256 | 4.00000  |                    |                   |
| 73 Di-n-octylphthalate            | 149   |     | 23.484                 | 23.484 | (1.000) | 21604  | 0.20000  | 0.2147             |                   |
| 74 Benzo(b)fluoranthene           | 252   |     | 24.103                 | 24.103 | (0.975) | 21142  | 0.20000  | 0.1803             |                   |
| 75 Benzo(k)fluoranthene           | 252   |     | 24.134                 | 24.134 | (0.977) | 24515  | 0.20000  | 0.1938             |                   |
| 76 Benzo(a)pyrene                 | 252   |     | 24.622                 | 24.622 | (0.996) | 16274  | 0.20000  | 0.1618             |                   |
| * 77 Perylene-d12                 | 264   |     | 24.715                 | 24.715 | (1.000) | 354894 | 4.00000  |                    |                   |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 26.793                 | 26.793 | (1.084) | 22271  | 0.20000  | 0.1759             |                   |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 26.800                 | 26.800 | (1.084) | 19647  | 0.20000  | 0.1827             |                   |
| 80 Benzo(g,h,i)perylene           | 276   |     | 27.391                 | 27.391 | (1.108) | 20097  | 0.20000  | 0.1820             |                   |
| 90 N-Nitrosodimethylamine         | 74    |     | 4.104                  | 4.104  | (0.500) | 6020   | 0.40000  | 0.2572 (M)         |                   |
| 91 Aniline                        | 93    |     | 7.735                  | 7.735  | (0.942) | 9677   | 0.40000  | 0.1791             |                   |
| 93 Benzidine                      | 184   |     | 20.015                 | 20.015 | (0.895) | 8994   | 0.40000  | 0.1510             |                   |
| 103 Pyridine                      | 79    |     | Compound Not Detected. |        |         |        |          |                    |                   |
| 105 1-methylnaphthalene           | 142   |     | 12.313                 | 12.313 | (1.154) | 14173  | 0.20000  | 0.1946             |                   |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     | 15.677                 | 15.677 | (1.100) | 13193  | 0.20000  | 0.1644             |                   |

| Compounds                     | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                               | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| =====                         | =====     |  | =====  | =====  | =====   | =====    | =====              |                   |
| 187 Total Benzofluoranthenes  | 252       |  | 24.103 | 24.103 | (0.975) | 43316    | 0.40000            | 0.3776            |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 15.028 | 15.029 | (1.055) | 1384     | 0.20000            | 0.05180 (M)       |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023  
 Lab File ID: NT1423022808.D Calibration Time: 12:51  
 Lab Smp Id: SLB0374-CAL1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 114351   | 57176      | 228702  | 113699 | -0.57  |
| 27 Naphthalene-d8     | 408655   | 204328     | 817310  | 400412 | -2.02  |
| 42 Acenaphthene-d10   | 254000   | 127000     | 508000  | 237606 | -6.45  |
| 59 Phenanthrene-d10   | 490626   | 245313     | 981252  | 464964 | -5.23  |
| 69 Chrysene-d12       | 390400   | 195200     | 780800  | 366875 | -6.03  |
| 134 Di-n-octylphthala | 500829   | 250415     | 1001658 | 382256 | -23.68 |
| 77 Perylene-d12       | 375675   | 187838     | 751350  | 354894 | -5.53  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.21   | -0.09 |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.67  | 0.00  |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.25  | 0.00  |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.25  | -0.04 |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.36  | -0.07 |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.48  | -0.03 |
| 77 Perylene-d12       | 24.72    | 24.22    | 25.22 | 24.72  | -0.03 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022808.D

Lab ID: SLB0374-CAL1  
nt14.i, ABN.m, 28-FEB-2023 15:16

| RT     | CO-ELUTION COMPOUNDS                  |
|--------|---------------------------------------|
| 13.939 | Acenaphthylene and 2,6-Dinitrotoluene |

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

NONE

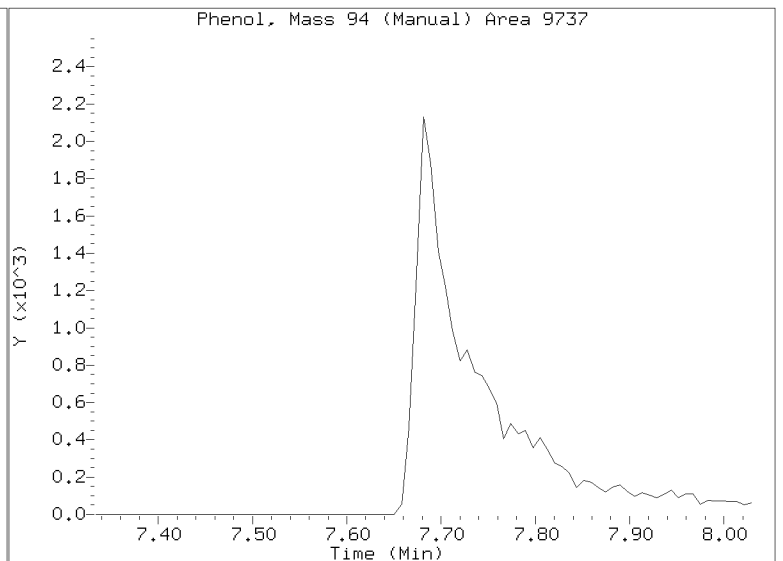
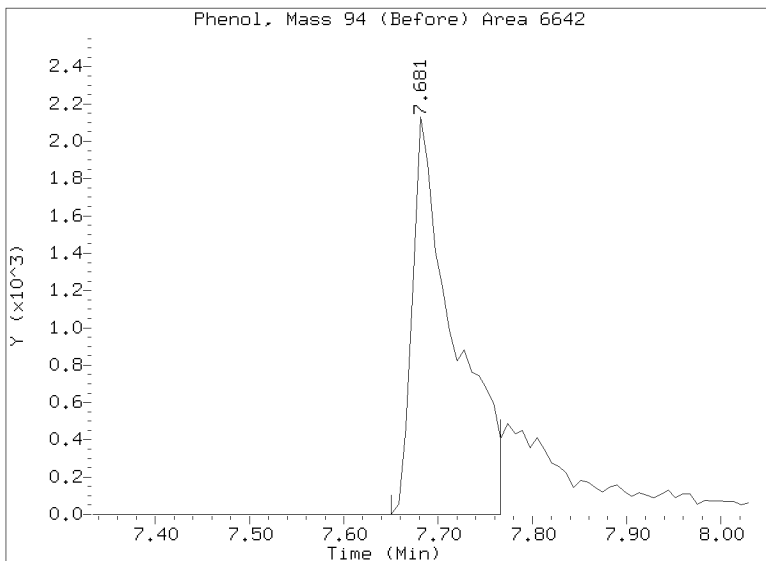
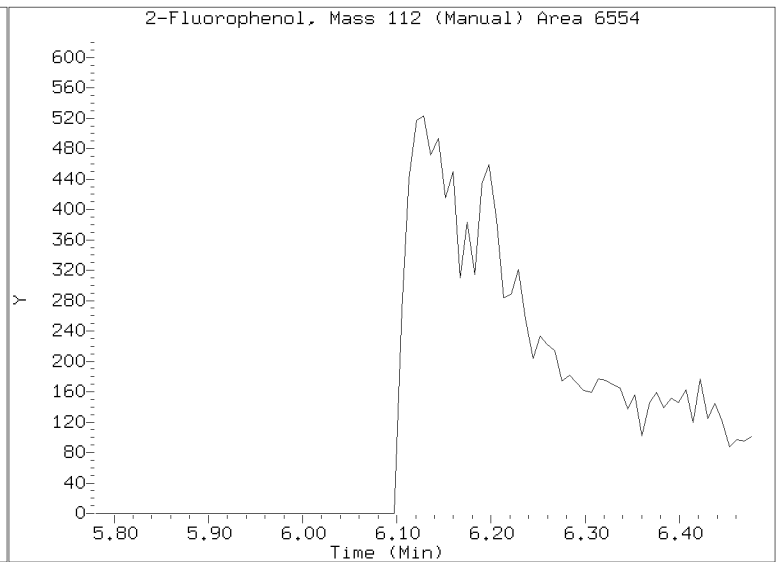
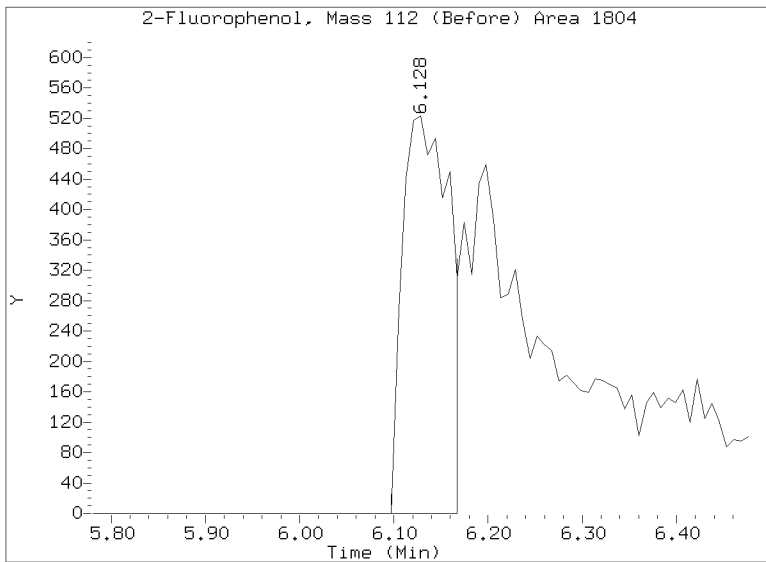
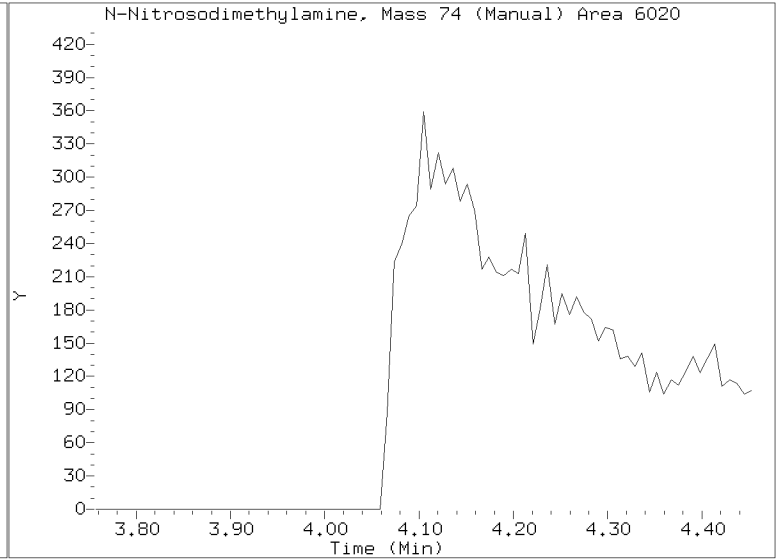
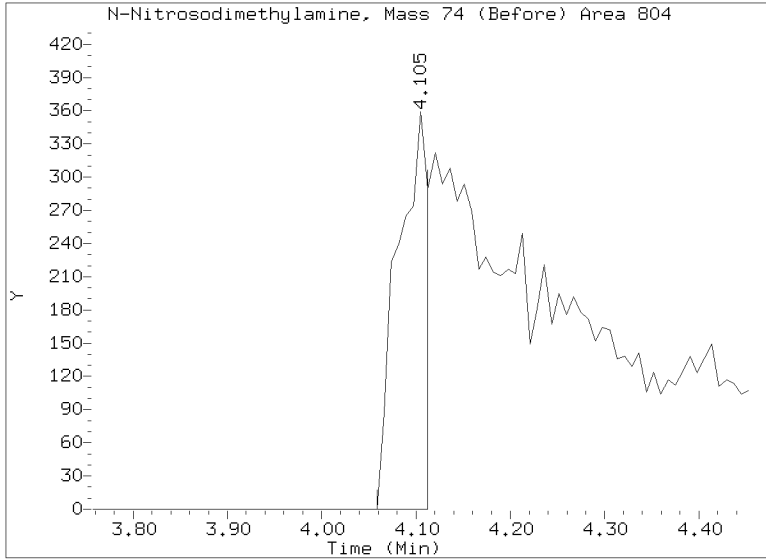
RRT check based on Ccal File: NT1423022808.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

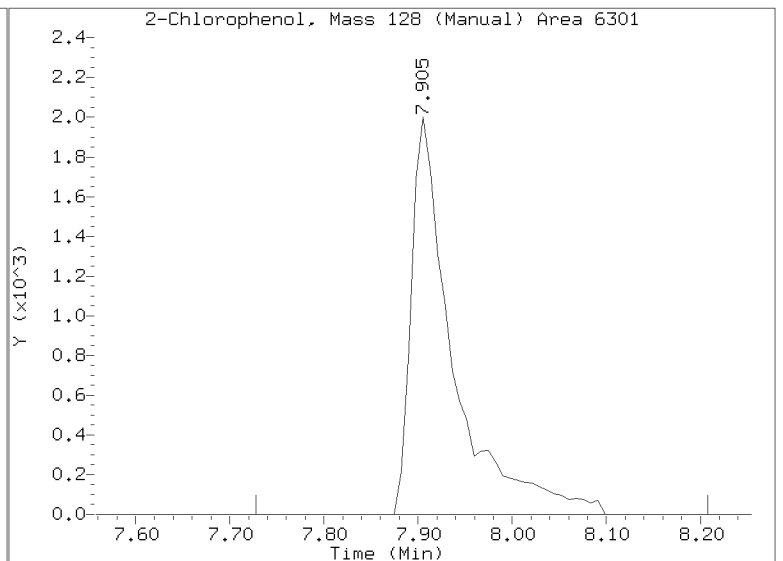
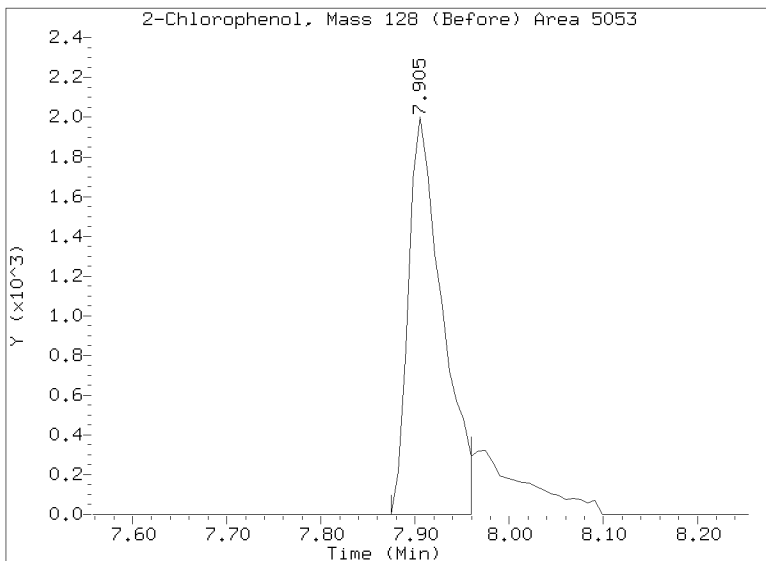
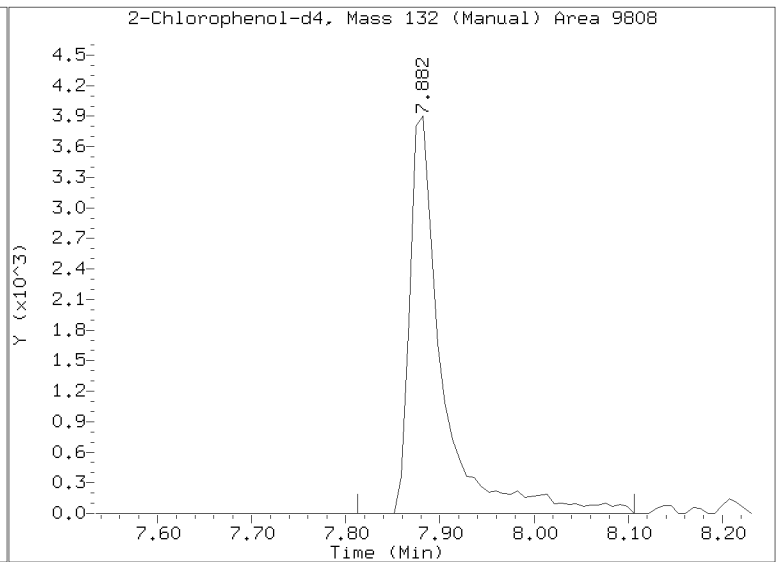
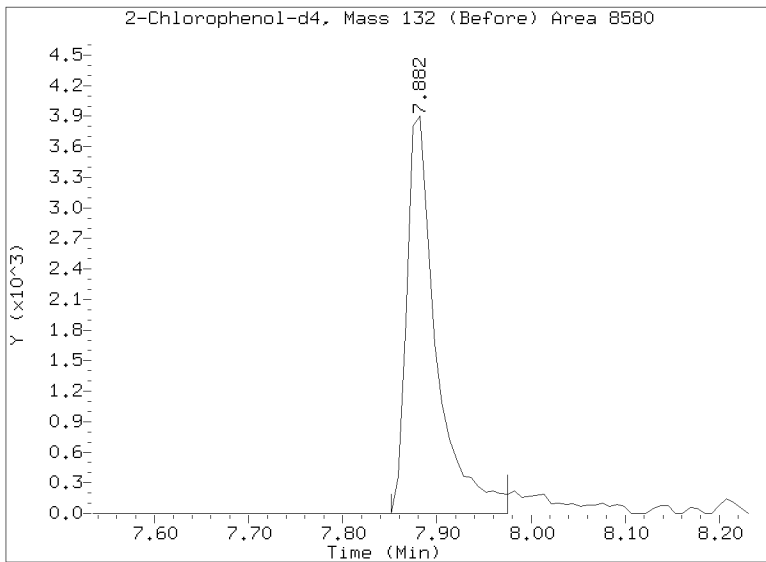
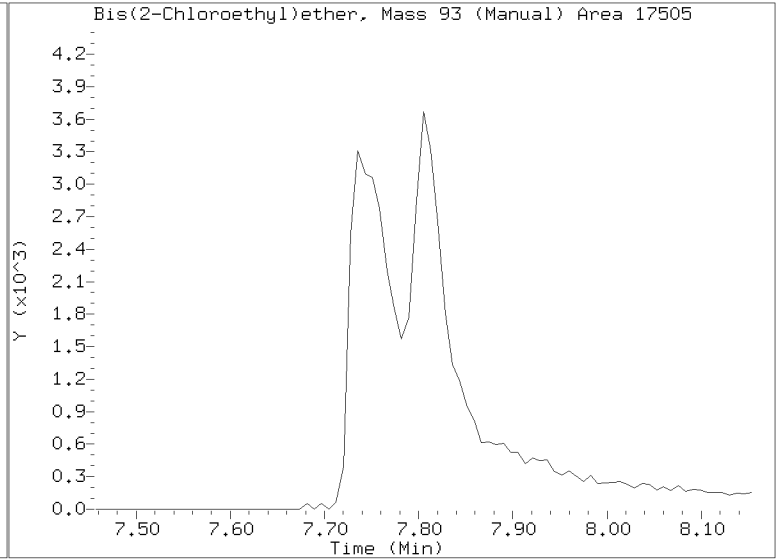
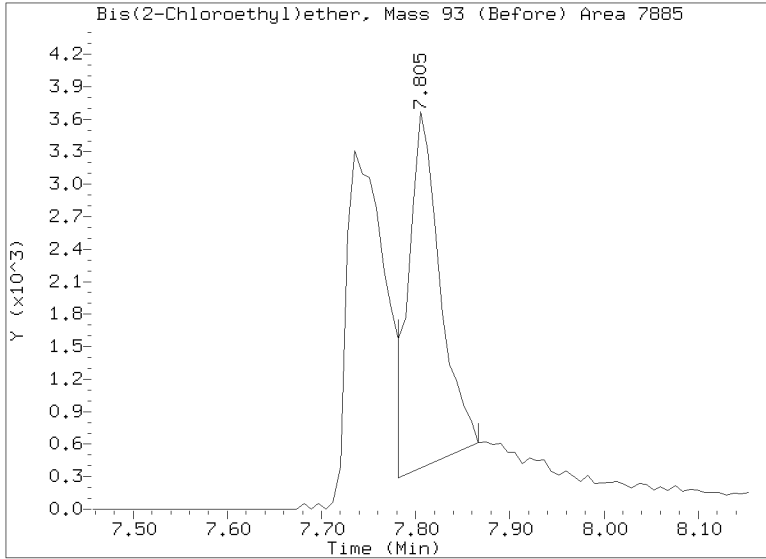
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Injection Date: 28-FEB-2023 15:16  
Lab ID:SLB0374-CAL1 Client ID:  
Report Date: 03/10/2023 13:21



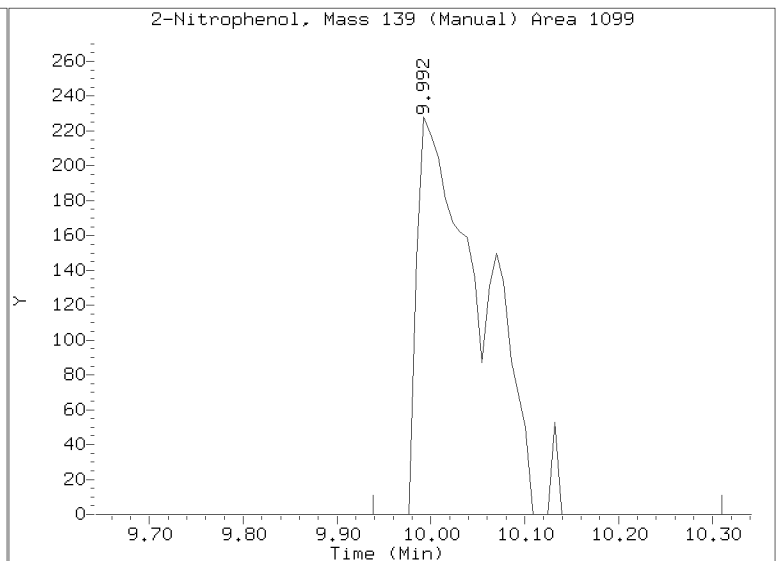
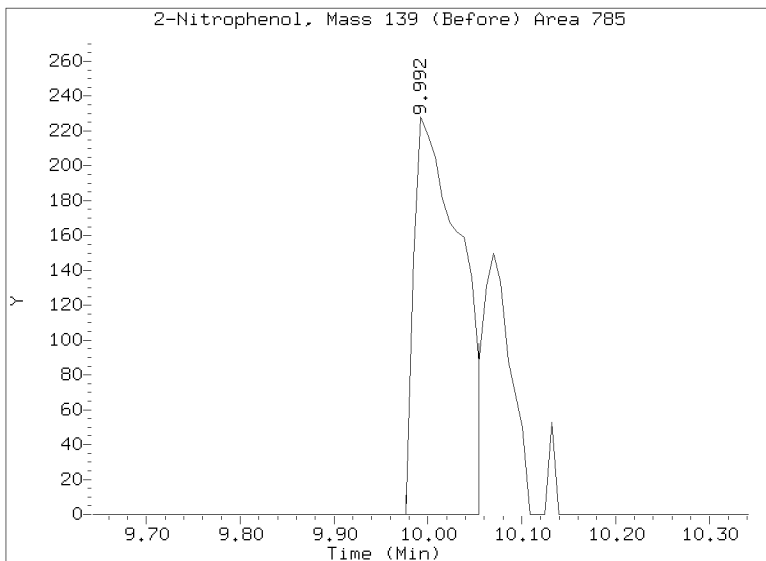
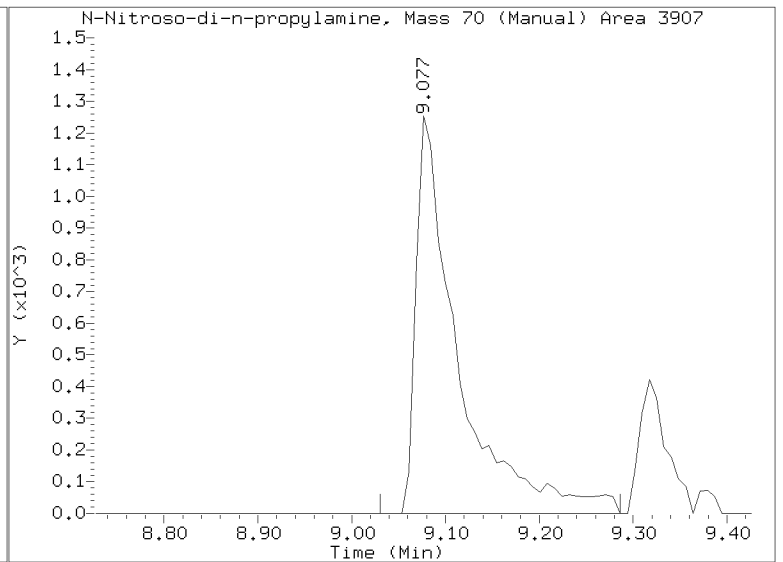
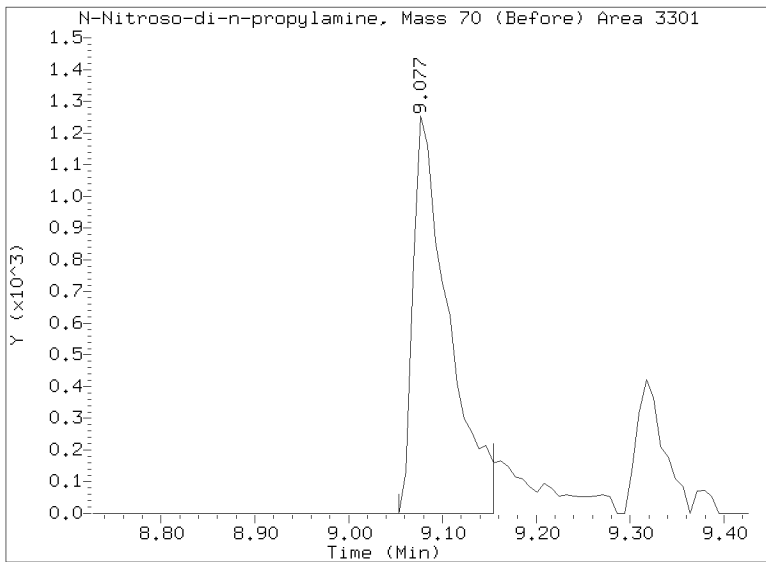
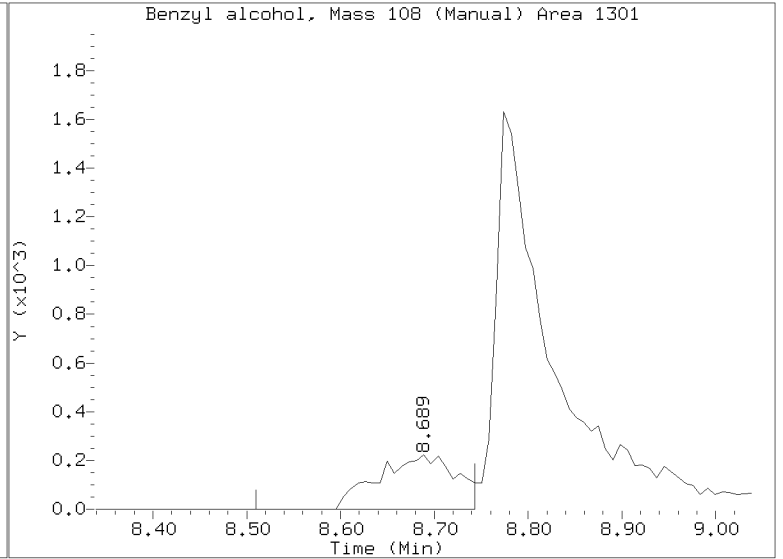
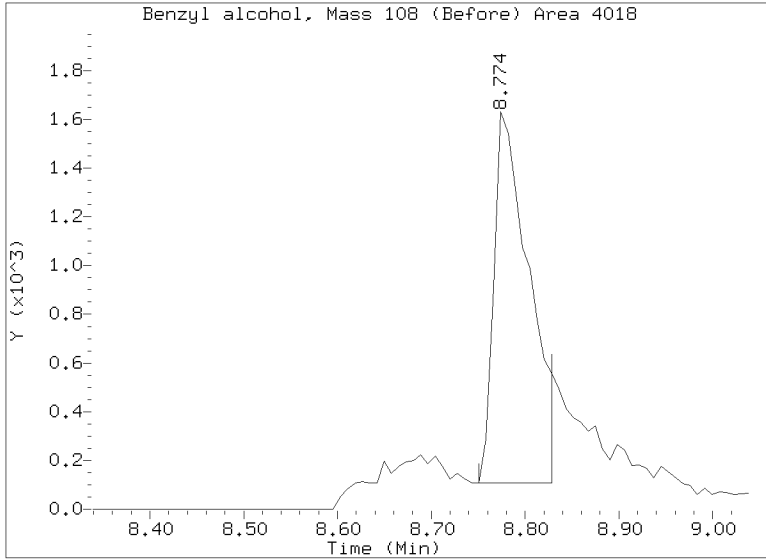
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Lab ID:SLB0374-CAL1 Client ID:  
Report Date: 03/10/2023 13:21



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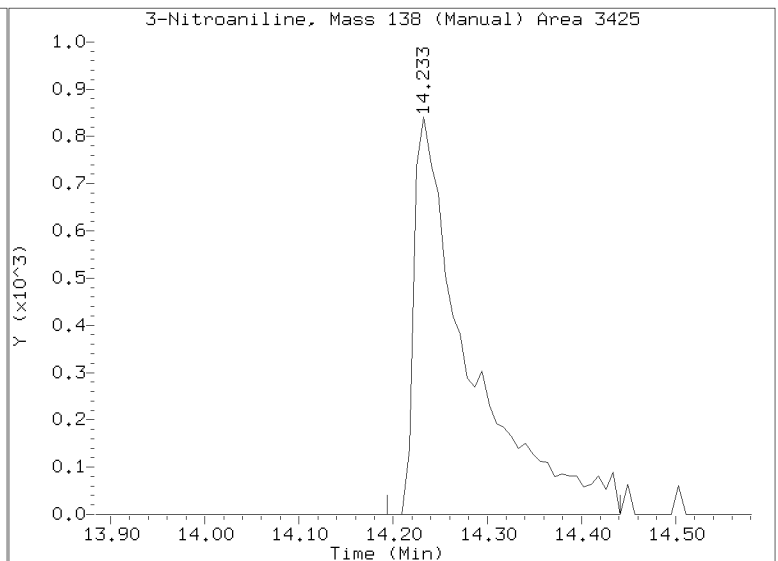
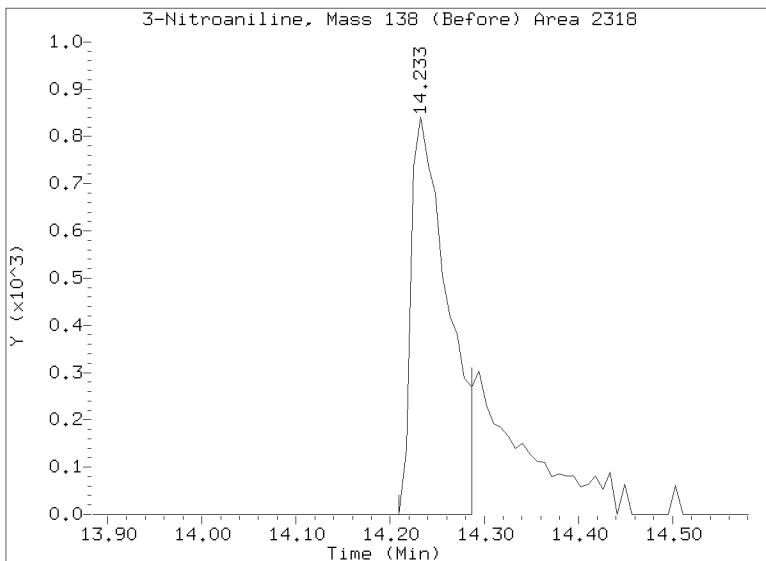
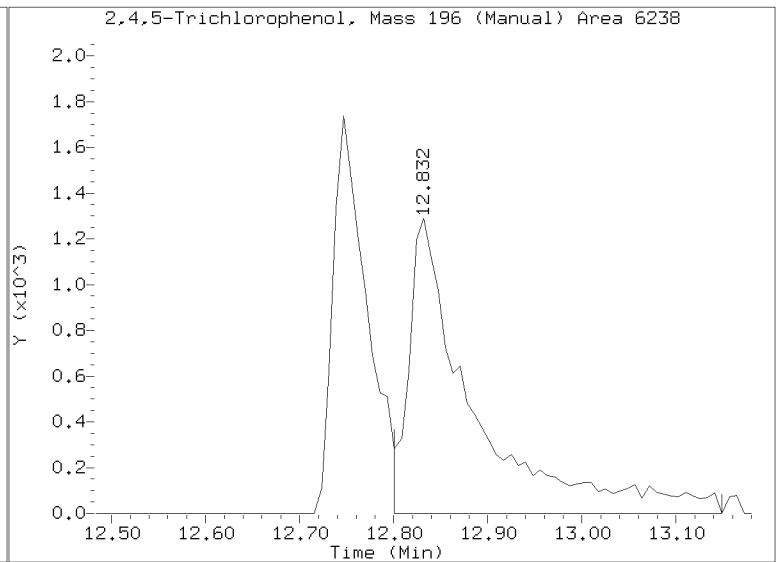
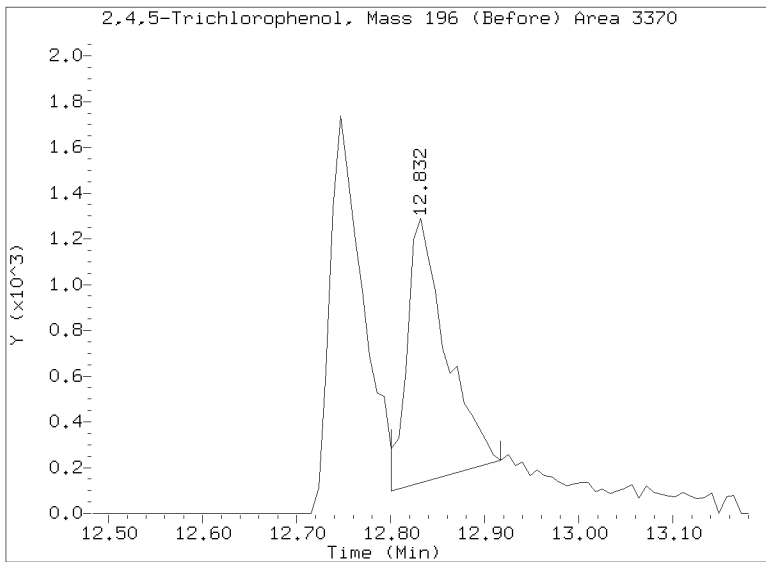
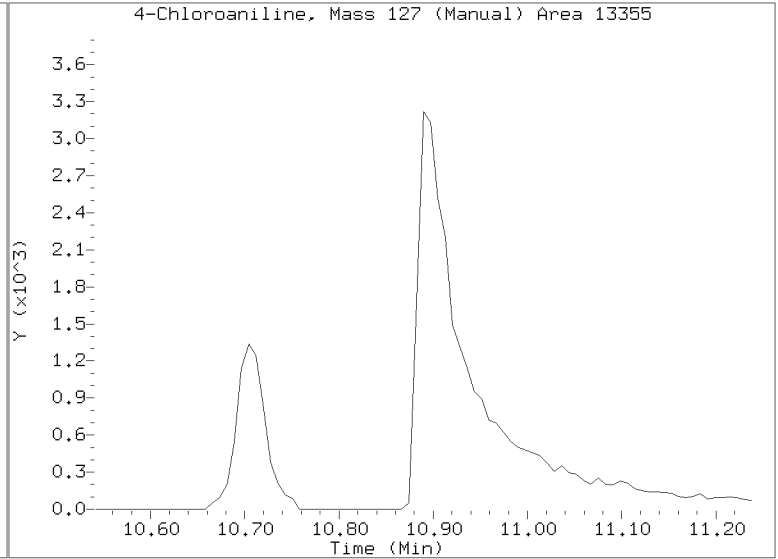
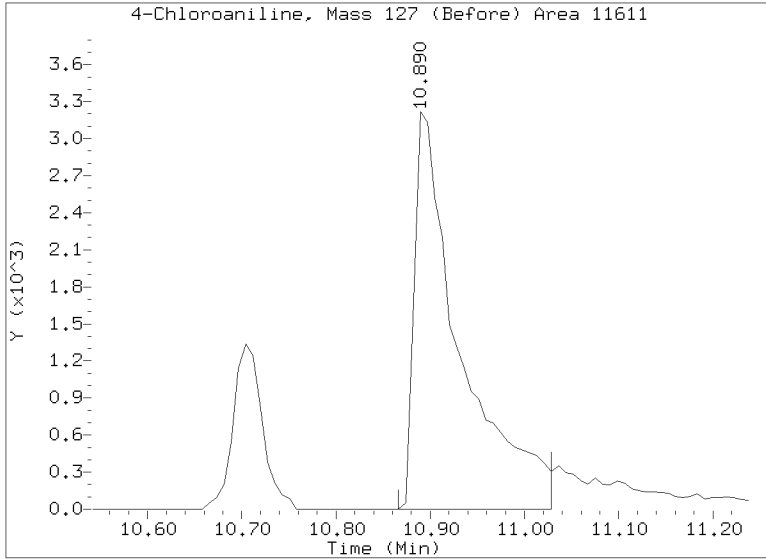
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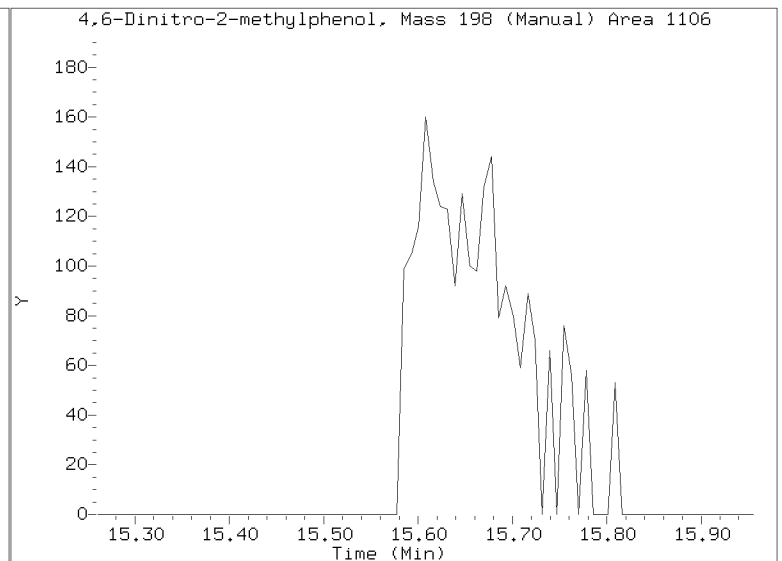
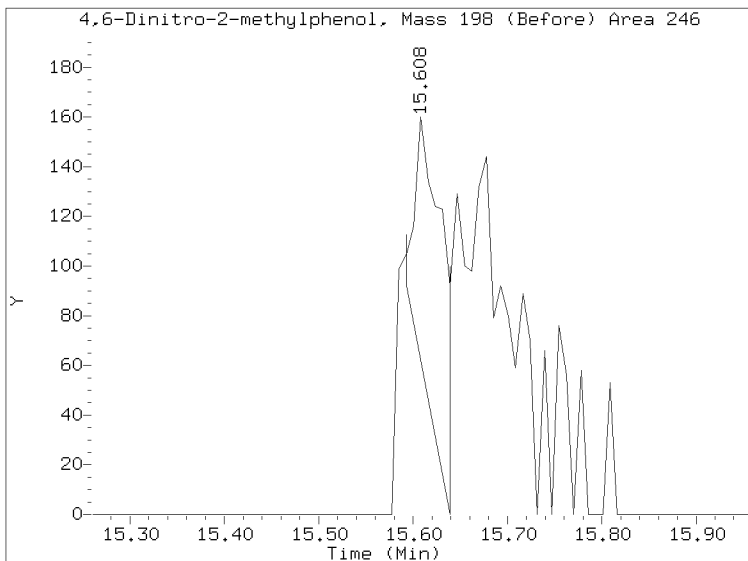
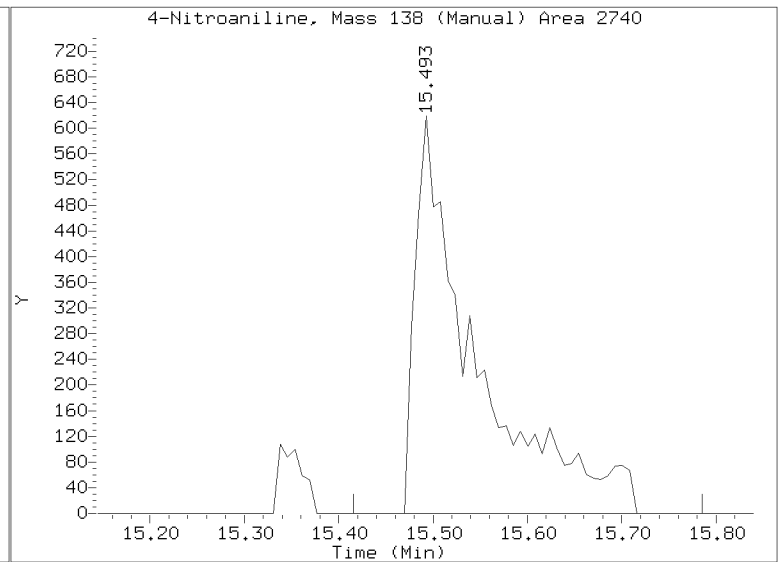
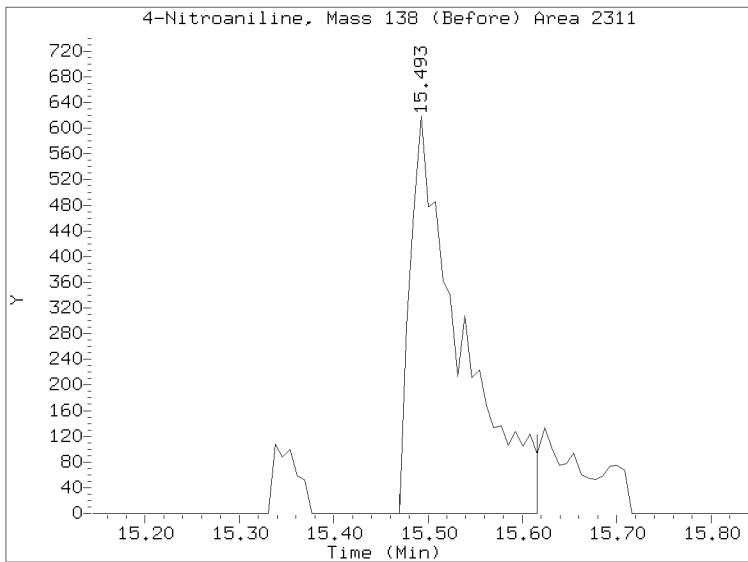
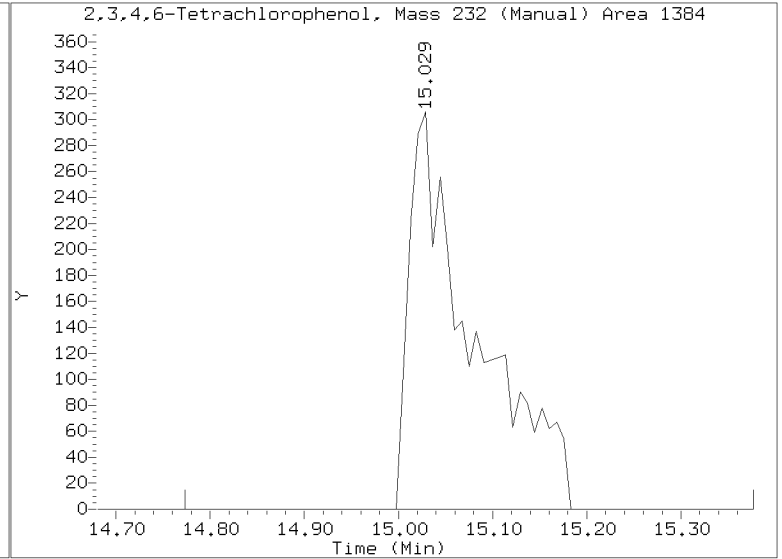
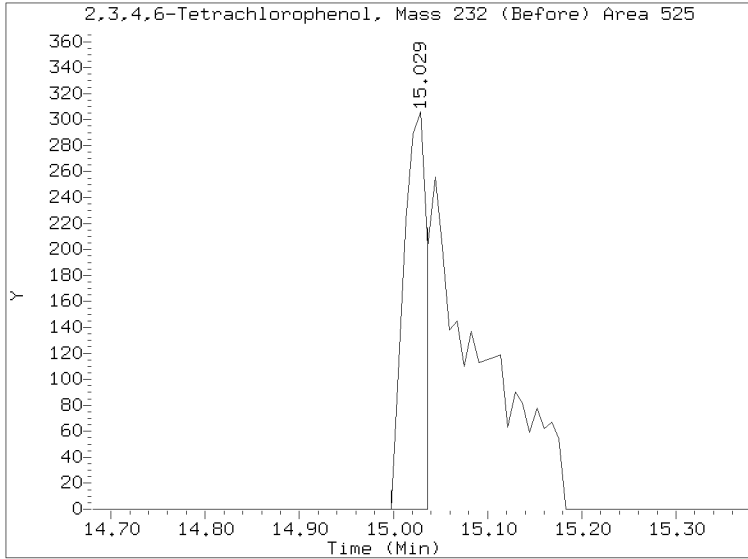
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Lab ID:SLB0374-CAL1 Client ID:  
Report Date: 03/10/2023 13:21



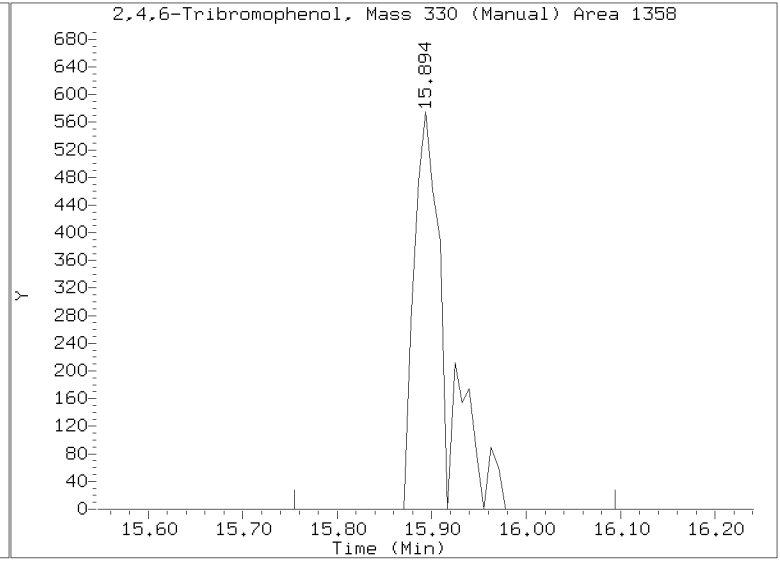
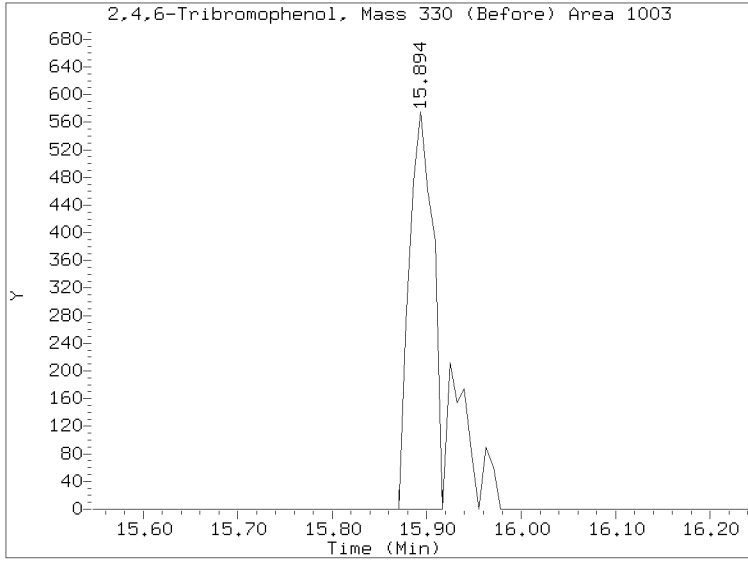
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Lab ID:SLB0374-CAL1 Client ID:  
Report Date: 03/10/2023 13:21



# Quant Ion Manual Peak Adjustment Report

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Injection Date: 28-FEB-2023 15:16  
Lab ID: SLB0374-CAL1 Client ID:  
Report Date: 03/10/2023 13:21



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Date : 28-FEB-2023 17:04

Client ID:

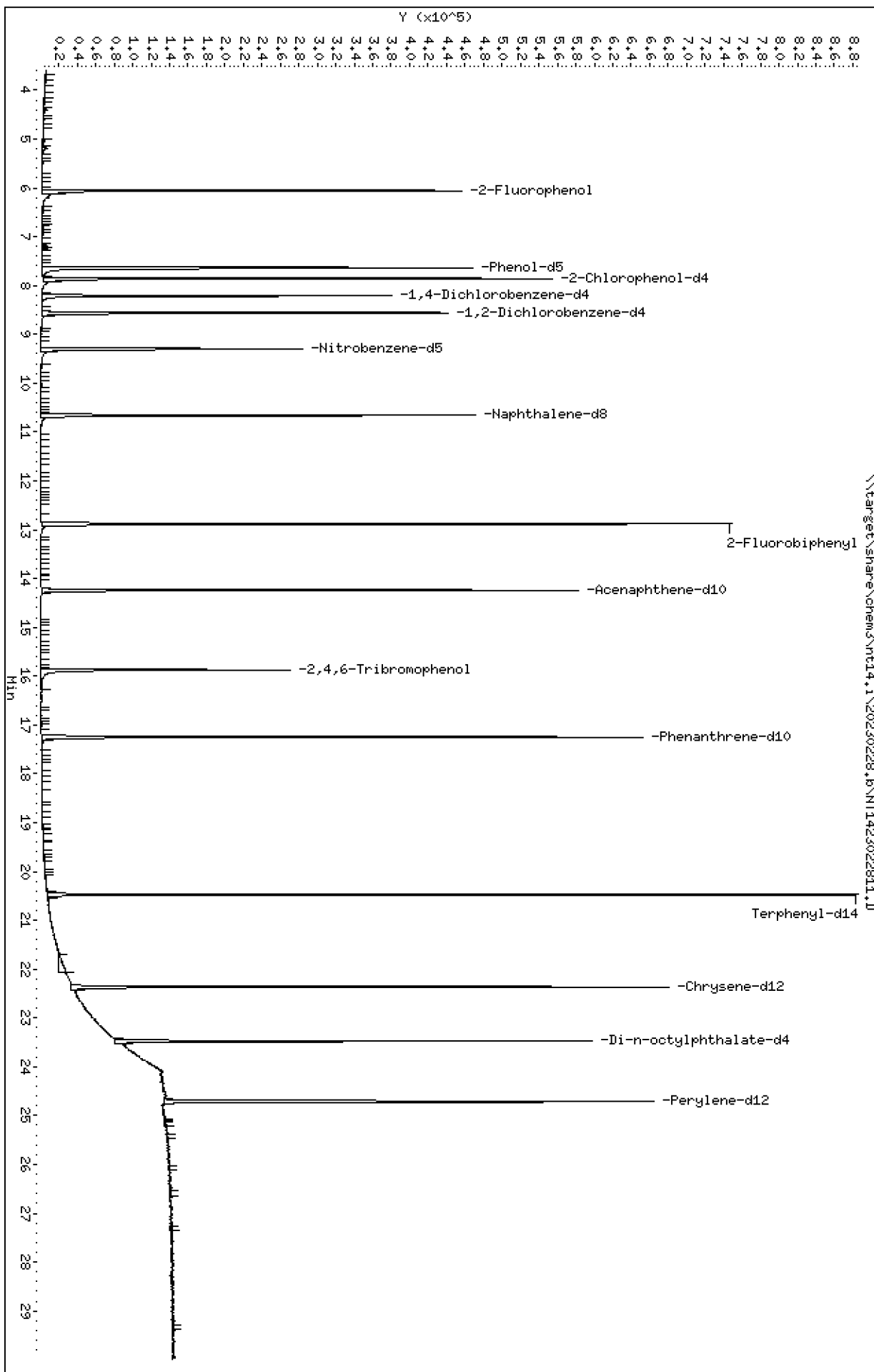
Sample Info: SLB0374-ICB1

Instrument: nt14,1

Page 1

Column phase: ZB-5msi

Operator: JGR  
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022811.D  
 Lab Smp Id: SLB0374-ICB1  
 Inj Date : 28-FEB-2023 17:04 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-ICB1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------------|------------------|
|                                 |       |     |                        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| \$ 1 2-Fluorophenol             | 112   |     | 6.058                  | 6.128  | (0.738) | 235604   | 7.41589              | 7.416            |
| \$ 2 Phenol-d5                  | 99    |     | 7.635                  | 7.665  | (0.930) | 327405   | 7.25846              | 7.258            |
| 3 Phenol                        | 94    |     | Compound Not Detected. |        |         |          |                      |                  |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.859                  | 7.882  | (0.958) | 262843   | 6.85302              | 6.853            |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | Compound Not Detected. |        |         |          |                      |                  |
| 6 2-Chlorophenol                | 128   |     | Compound Not Detected. |        |         |          |                      |                  |
| 7 1,3-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                      |                  |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.207                  | 8.207  | (1.000) | 117167   | 4.00000              |                  |
| 9 1,4-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                      |                  |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.564                  | 8.572  | (1.043) | 133861   | 4.63594              | 4.636            |
| 12 1,2-Dichlorobenzene          | 146   |     | Compound Not Detected. |        |         |          |                      |                  |
| 11 Benzyl alcohol               | 108   |     | Compound Not Detected. |        |         |          |                      |                  |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | Compound Not Detected. |        |         |          |                      |                  |
| 13 2-Methylphenol               | 108   |     | Compound Not Detected. |        |         |          |                      |                  |
| 17 Hexachloroethane             | 117   |     | Compound Not Detected. |        |         |          |                      |                  |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | Compound Not Detected. |        |         |          |                      |                  |
| 15 4-Methylphenol               | 108   |     | Compound Not Detected. |        |         |          |                      |                  |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.301                  | 9.317  | (0.873) | 188062   | 4.72328              | 4.723            |
| 19 Nitrobenzene                 | 77    |     | Compound Not Detected. |        |         |          |                      |                  |
| 20 Isophorone                   | 82    |     | Compound Not Detected. |        |         |          |                      |                  |
| 21 2-Nitrophenol                | 139   |     | Compound Not Detected. |        |         |          |                      |                  |
| 22 2,4-Dimethylphenol           | 107   |     | Compound Not Detected. |        |         |          |                      |                  |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | Compound Not Detected. |        |         |          |                      |                  |
| 24 Benzoic acid                 | 105   |     | Compound Not Detected. |        |         |          |                      |                  |
| 25 2,4-Dichlorophenol           | 162   |     | Compound Not Detected. |        |         |          |                      |                  |
| 26 1,2,4-Trichlorobenzene       | 180   |     | Compound Not Detected. |        |         |          |                      |                  |
| * 27 Naphthalene-d8             | 136   |     | 10.657                 | 10.665 | (1.000) | 407027   | 4.00000              |                  |
| 28 Naphthalene                  | 128   |     | Compound Not Detected. |        |         |          |                      |                  |
| 29 4-Chloroaniline              | 127   |     | Compound Not Detected. |        |         |          |                      |                  |
| 30 Hexachlorobutadiene          | 225   |     | Compound Not Detected. |        |         |          |                      |                  |
| 31 4-Chloro-3-methylphenol      | 107   |     | Compound Not Detected. |        |         |          |                      |                  |
| 32 2-Methylnaphthalene          | 142   |     | Compound Not Detected. |        |         |          |                      |                  |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                      |                  |

| Compounds                         | QUANT<br>MASS | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-----------------------------------|---------------|-----|--------|--------|---------|----------|----------------------|------------------|
|                                   |               |     |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196           |     |        |        |         |          |                      |                  |
| 35 2,4,5-Trichlorophenol          | 196           |     |        |        |         |          |                      |                  |
| \$ 36 2-Fluorobiphenyl            | 172           |     | 12.885 | 12.893 | (0.905) | 436818   | 4.67914              | 4.679            |
| 37 2-Chloronaphthalene            | 162           |     |        |        |         |          |                      |                  |
| 38 2-Nitroaniline                 | 65            |     |        |        |         |          |                      |                  |
| 39 Dimethylphthalate              | 163           |     |        |        |         |          |                      |                  |
| 40 Acenaphthylene                 | 152           |     |        |        |         |          |                      |                  |
| 41 2,6-Dinitrotoluene             | 165           |     |        |        |         |          |                      |                  |
| * 42 Acenaphthene-d10             | 164           |     | 14.240 | 14.247 | (1.000) | 239853   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138           |     |        |        |         |          |                      |                  |
| 44 Acenaphthene                   | 153           |     |        |        |         |          |                      |                  |
| 45 2,4-Dinitrophenol              | 184           |     |        |        |         |          |                      |                  |
| 46 Dibenzofuran                   | 168           |     |        |        |         |          |                      |                  |
| 47 4-Nitrophenol                  | 109           |     |        |        |         |          |                      |                  |
| 48 2,4-Dinitrotoluene             | 165           |     |        |        |         |          |                      |                  |
| 50 Diethylphthalate               | 149           |     |        |        |         |          |                      |                  |
| 49 Fluorene                       | 166           |     |        |        |         |          |                      |                  |
| 51 4-Chlorophenyl-phenylether     | 204           |     |        |        |         |          |                      |                  |
| 52 4-Nitroaniline                 | 138           |     |        |        |         |          |                      |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198           |     |        |        |         |          |                      |                  |
| 54 N-Nitrosodiphenylamine         | 169           |     |        |        |         |          |                      |                  |
| \$ 55 2,4,6-Tribromophenol        | 330           |     | 15.878 | 15.893 | (1.115) | 59409    | 4.52630              | 4.526            |
| 56 4-Bromophenyl-phenylether      | 248           |     |        |        |         |          |                      |                  |
| 57 Hexachlorobenzene              | 284           |     |        |        |         |          |                      |                  |
| 58 Pentachlorophenol              | 266           |     |        |        |         |          |                      |                  |
| * 59 Phenanthrene-d10             | 188           |     | 17.245 | 17.245 | (1.000) | 473405   | 4.00000              |                  |
| 60 Phenanthrene                   | 178           |     |        |        |         |          |                      |                  |
| 61 Anthracene                     | 178           |     |        |        |         |          |                      |                  |
| 62 Carbazole                      | 167           |     |        |        |         |          |                      |                  |
| 63 Di-n-butylphthalate            | 149           |     |        |        |         |          |                      |                  |
| 64 Fluoranthene                   | 202           |     |        |        |         |          |                      |                  |
| 65 Pyrene                         | 202           |     |        |        |         |          |                      |                  |
| \$ 66 Terphenyl-d14               | 244           |     | 20.479 | 20.480 | (0.916) | 553028   | 4.93009              | 4.930            |
| 67 Butylbenzylphthalate           | 149           |     |        |        |         |          |                      |                  |
| 68 Benzo(a)anthracene             | 228           |     |        |        |         |          |                      |                  |
| * 69 Chrysene-d12                 | 240           |     | 22.361 | 22.361 | (1.000) | 364221   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252           |     |        |        |         |          |                      |                  |
| 71 Chrysene                       | 228           |     |        |        |         |          |                      |                  |
| 72 bis(2-Ethylhexyl)phthalate     | 149           |     |        |        |         |          |                      |                  |
| * 134 Di-n-octylphthalate-d4      | 153           |     | 23.476 | 23.476 | (1.000) | 366453   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149           |     |        |        |         |          |                      |                  |
| 74 Benzo(b)fluoranthene           | 252           |     |        |        |         |          |                      |                  |
| 75 Benzo(k)fluoranthene           | 252           |     |        |        |         |          |                      |                  |
| 76 Benzo(a)pyrene                 | 252           |     |        |        |         |          |                      |                  |
| * 77 Perylene-d12                 | 264           |     | 24.707 | 24.715 | (1.000) | 358535   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276           |     |        |        |         |          |                      |                  |
| 79 Dibenzo(a,h)anthracene         | 278           |     |        |        |         |          |                      |                  |
| 80 Benzo(g,h,i)perylene           | 276           |     |        |        |         |          |                      |                  |
| 90 N-Nitrosodimethylamine         | 74            |     |        |        |         |          |                      |                  |
| 91 Aniline                        | 93            |     |        |        |         |          |                      |                  |
| 93 Benzidine                      | 184           |     |        |        |         |          |                      |                  |
| 103 Pyridine                      | 79            |     |        |        |         |          |                      |                  |
| 105 1-methylnaphthalene           | 142           |     |        |        |         |          |                      |                  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77            |     |        |        |         |          |                      |                  |

| Compounds                     | QUANT<br>MASS | SIG   | RT    | EXP RT | REL RT                 | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|---------------|-------|-------|--------|------------------------|----------|----------------------|------------------|
|                               |               |       |       |        |                        |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| =====                         | =====         | ===== | ===== | =====  | =====                  | =====    | =====                |                  |
| 187 Total Benzofluoranthenes  | 252           |       |       |        | Compound Not Detected. |          |                      |                  |
| 120 2,3,4,6-Tetrachlorophenol | 232           |       |       |        | Compound Not Detected. |          |                      |                  |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023  
 Lab File ID: NT1423022811.D Calibration Time: 12:51  
 Lab Smp Id: SLB0374-ICB1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 114351   | 57176      | 228702  | 117167 | 2.46   |
| 27 Naphthalene-d8     | 408655   | 204328     | 817310  | 407027 | -0.40  |
| 42 Acenaphthene-d10   | 254000   | 127000     | 508000  | 239853 | -5.57  |
| 59 Phenanthrene-d10   | 490626   | 245313     | 981252  | 473405 | -3.51  |
| 69 Chrysene-d12       | 390400   | 195200     | 780800  | 364221 | -6.71  |
| 134 Di-n-octylphthala | 500829   | 250415     | 1001658 | 366453 | -26.83 |
| 77 Perylene-d12       | 375675   | 187838     | 751350  | 358535 | -4.56  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.21   | -0.09 |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.66  | -0.07 |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.24  | -0.05 |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.25  | -0.04 |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.36  | -0.07 |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.48  | -0.03 |
| 77 Perylene-d12       | 24.72    | 24.22    | 25.22 | 24.71  | -0.06 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



REVIEW SUMMARY FOR FILE - NT1423022811.D

Lab ID: SLB0374-ICB1  
nt14.i, ABN.m, 28-FEB-2023 17:04

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND       |
|-------|---------|---------|----------------|
| 0.738 | 0.747   | -0.0085 | 2-Fluorophenol |

RRT check based on Ccal File: NT1423022808.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022812.D

Date: 28-FEB-2023 17:41

Client ID:

Sample Info: SLB0374-SCV1

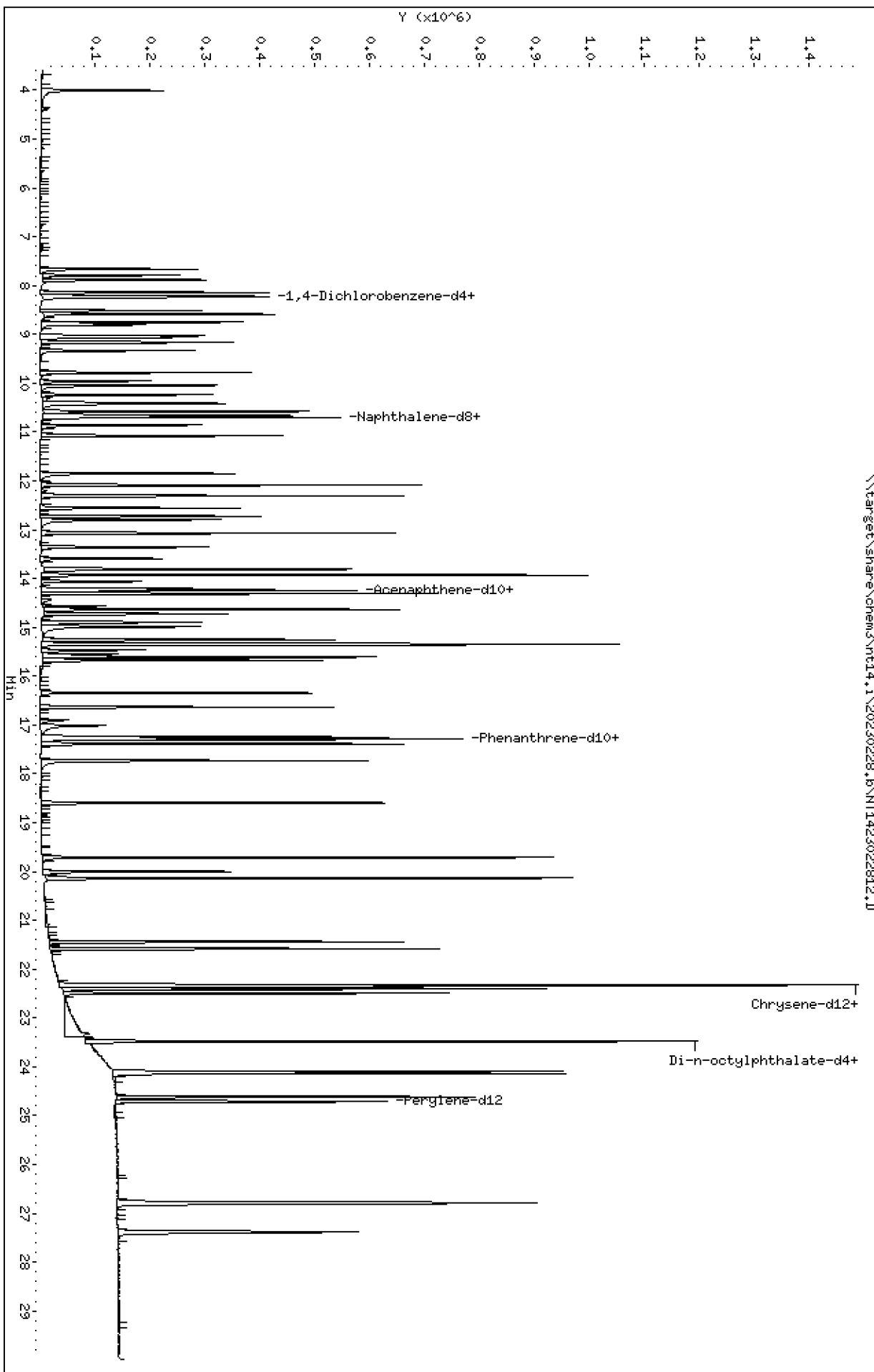
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

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Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

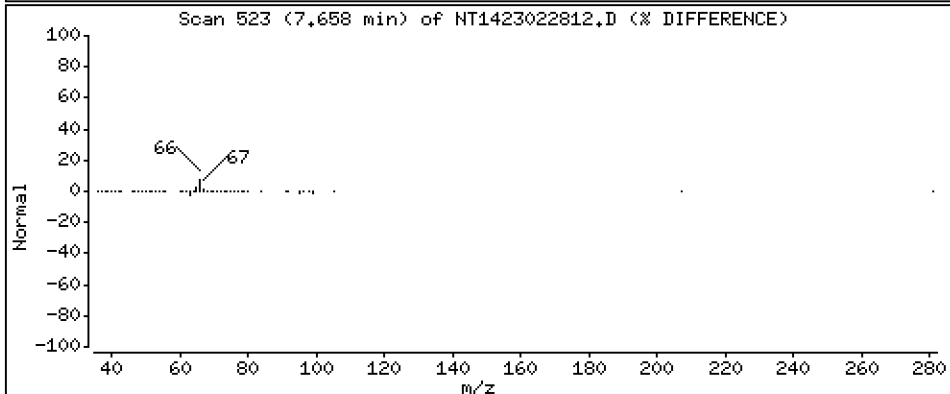
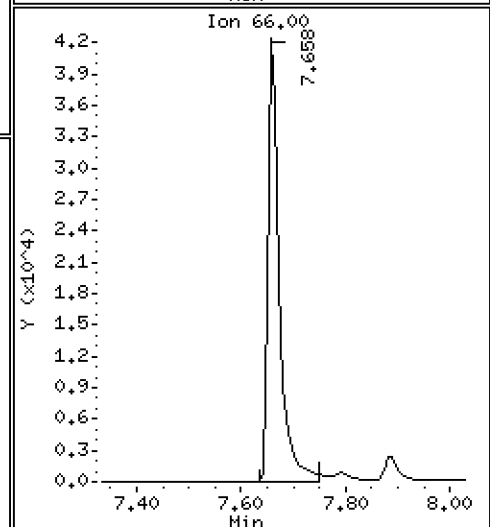
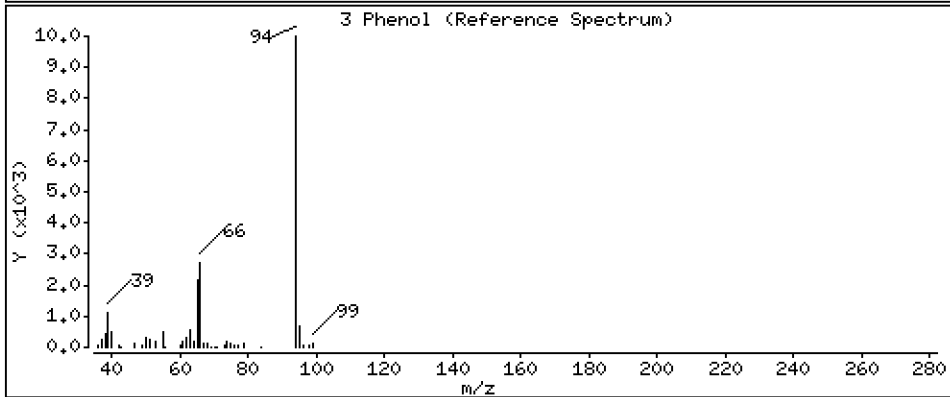
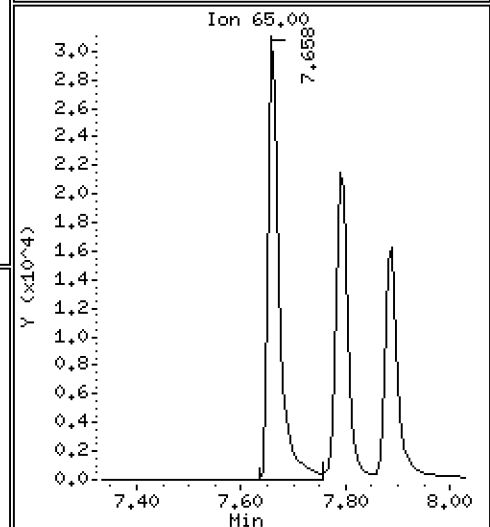
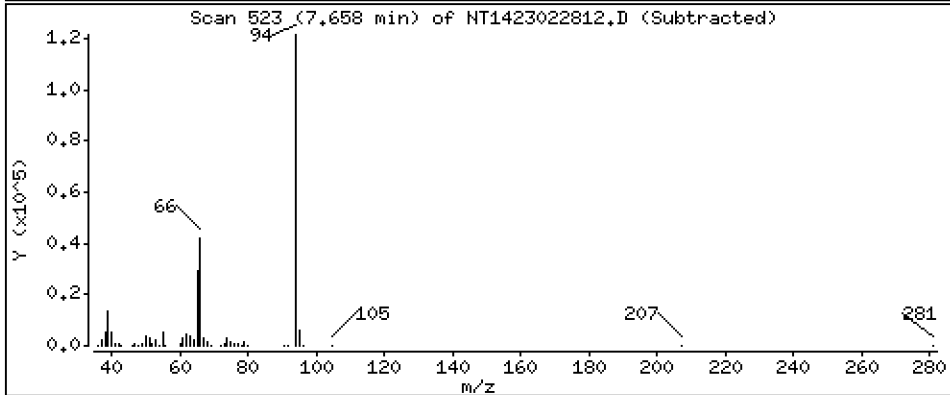
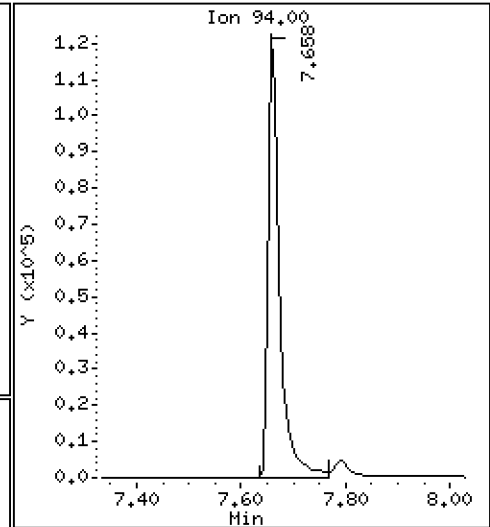
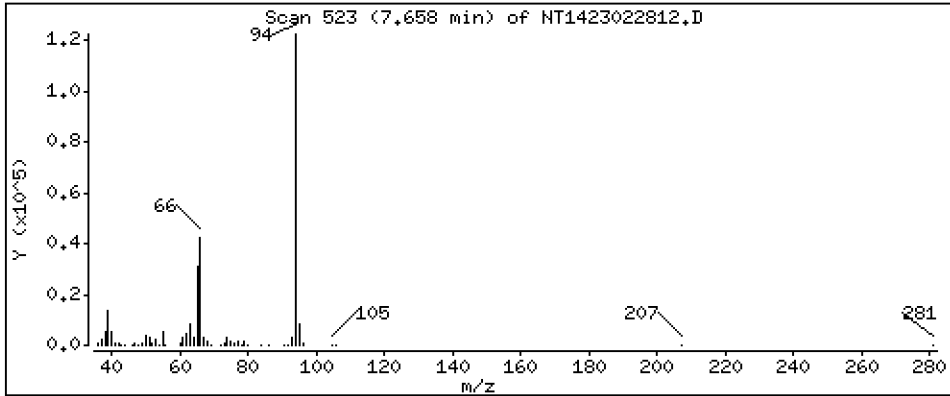
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 3.935 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

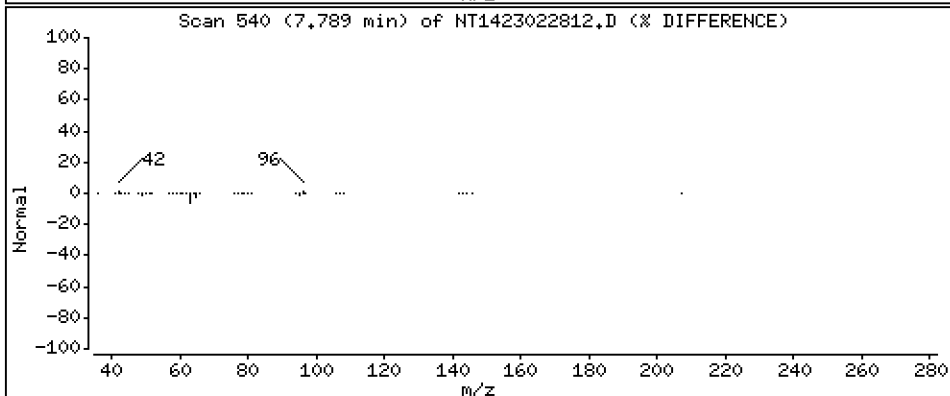
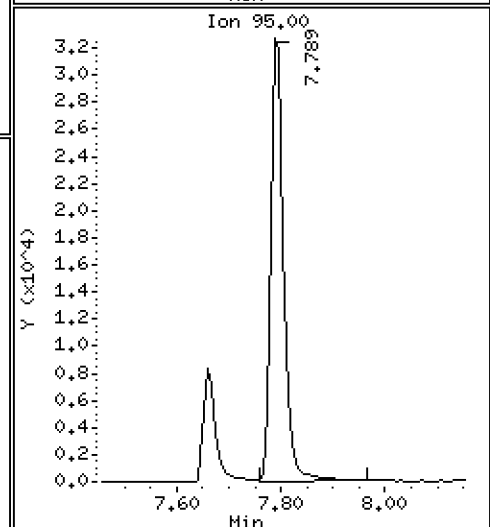
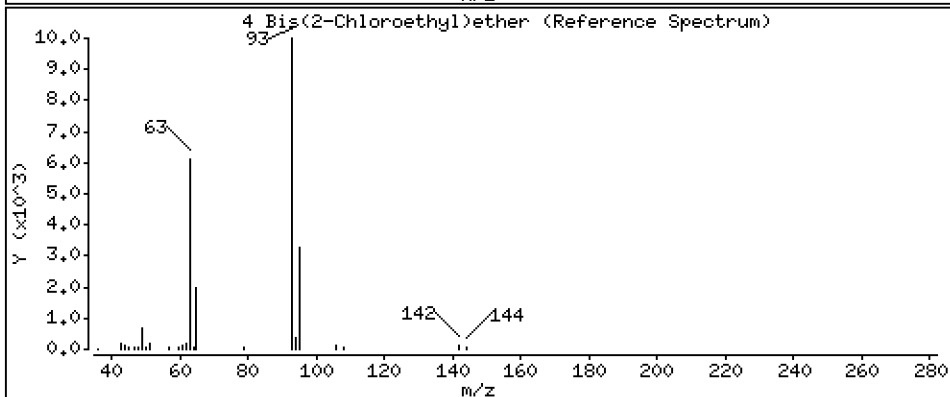
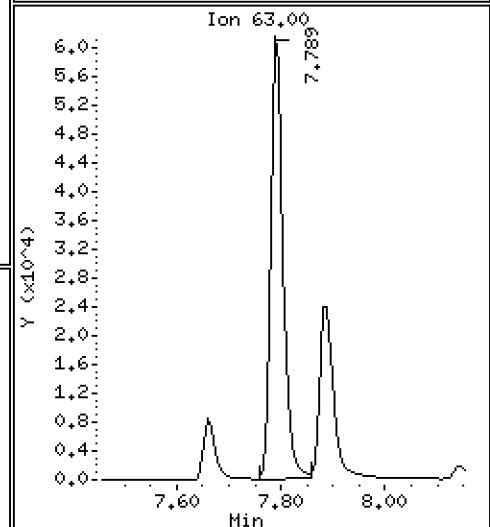
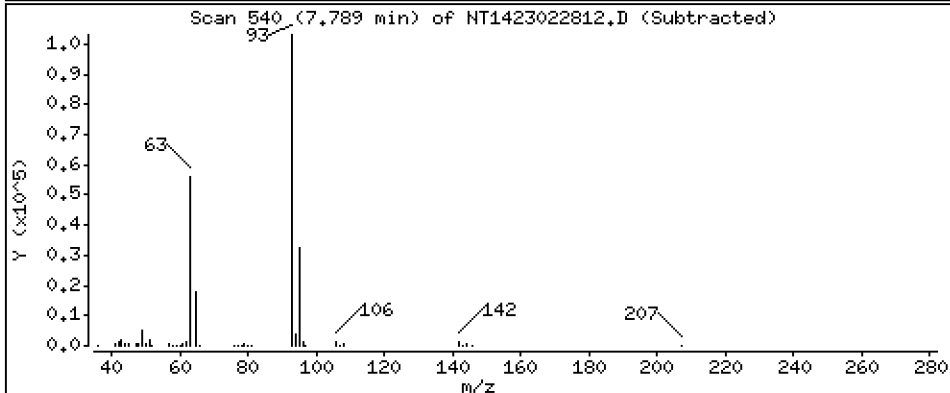
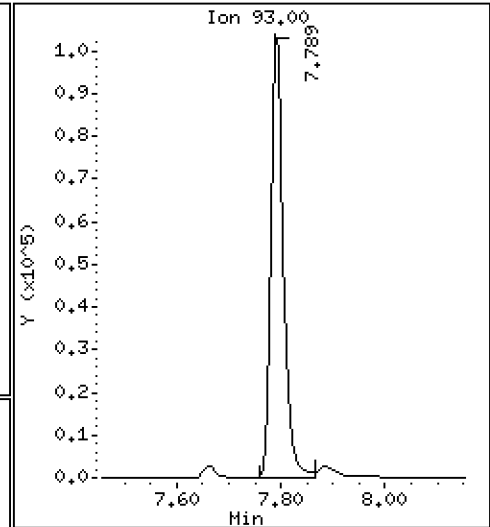
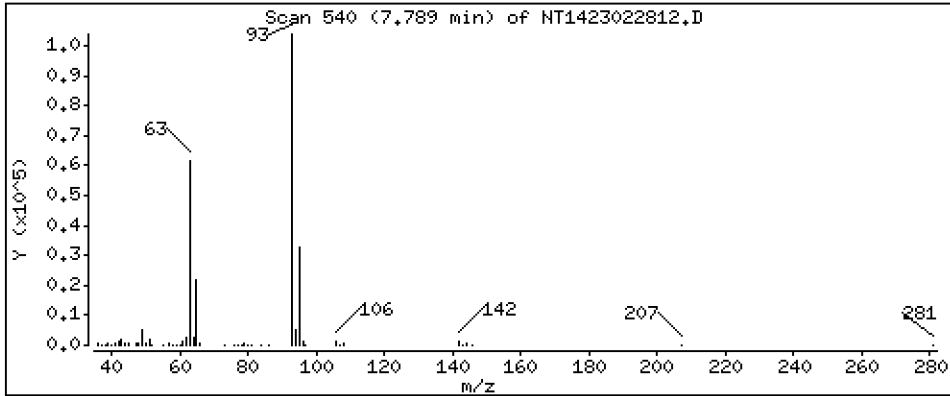
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 5.224 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

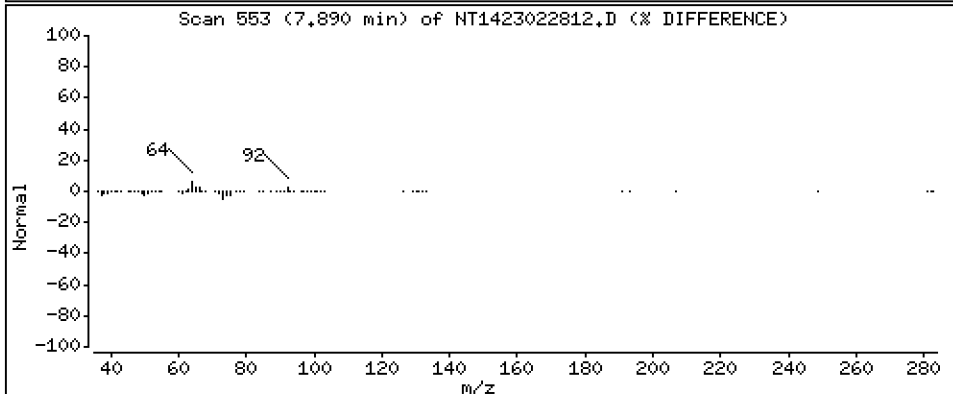
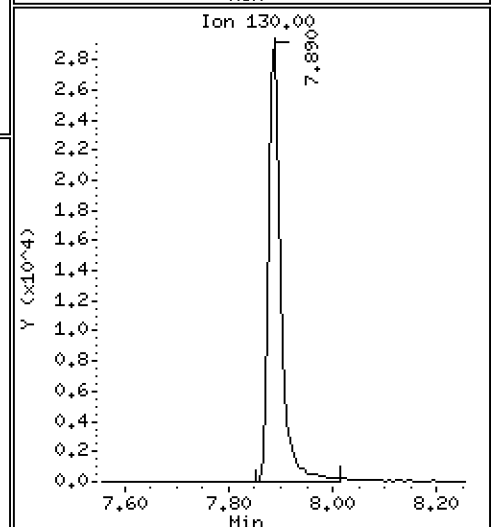
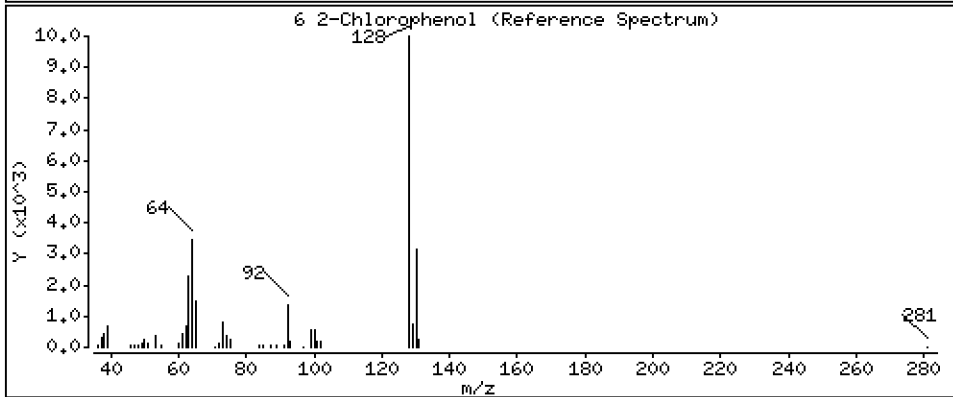
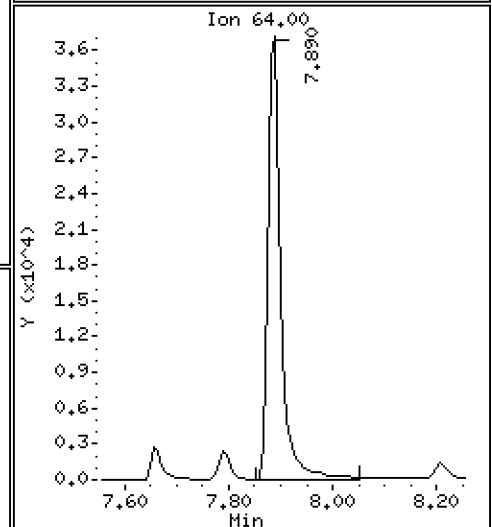
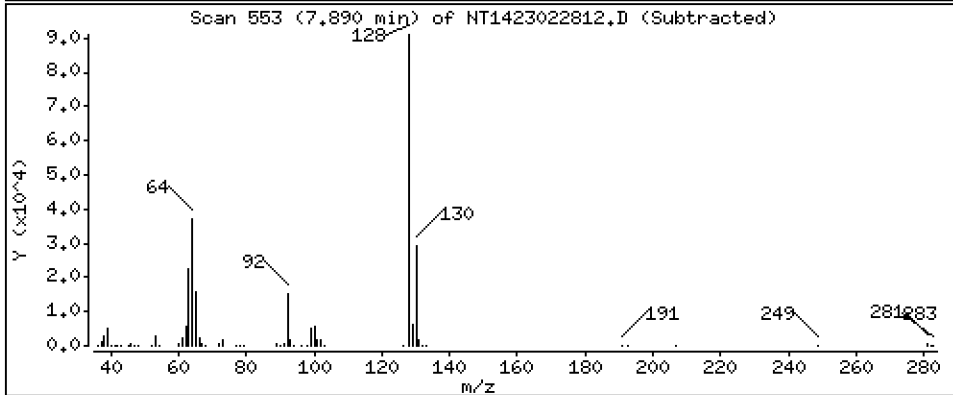
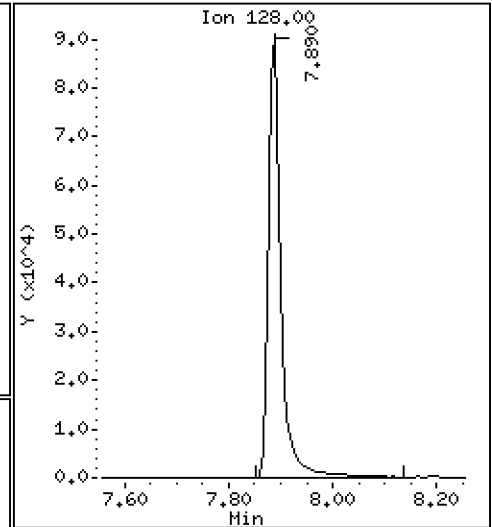
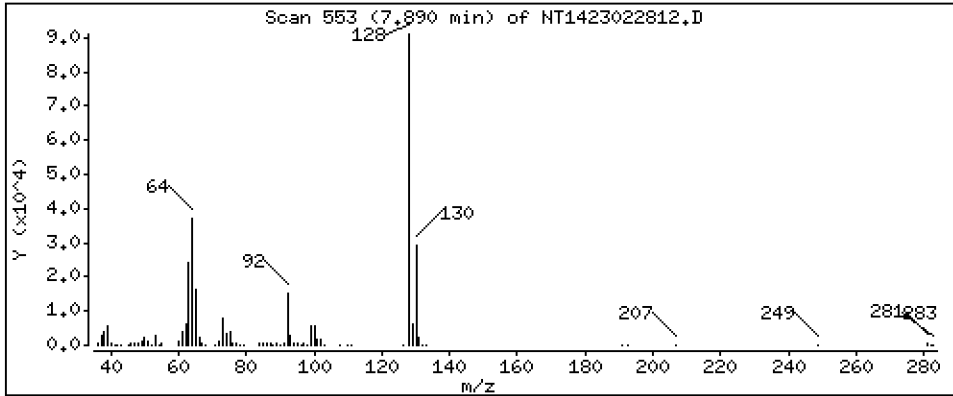
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,632 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

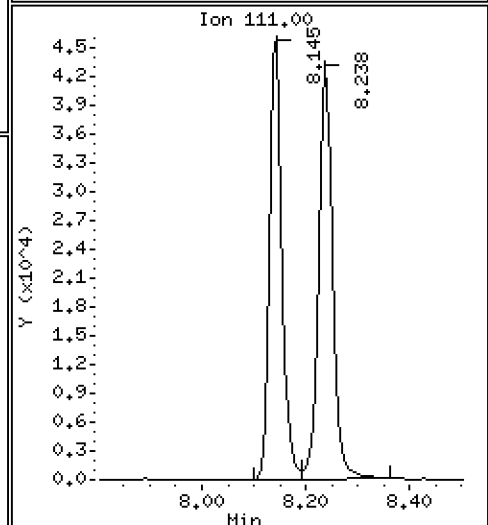
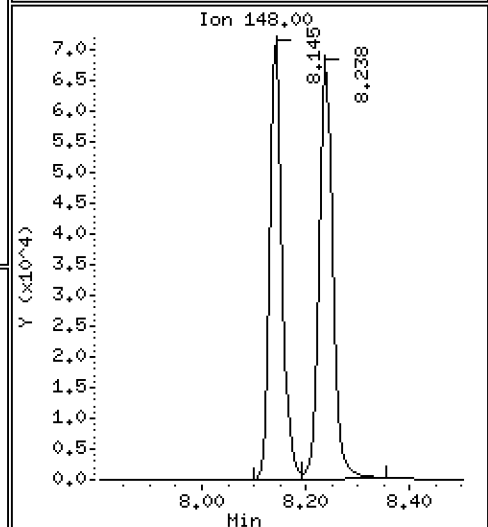
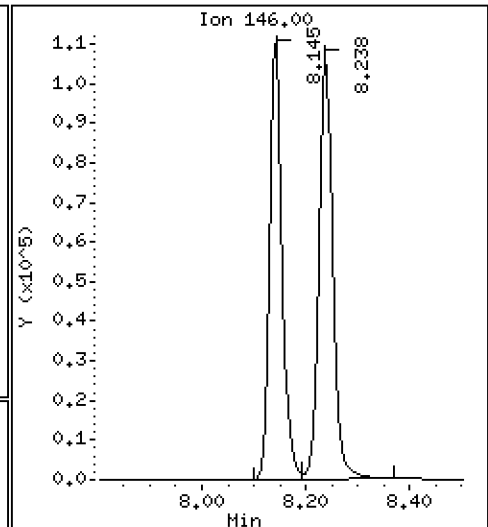
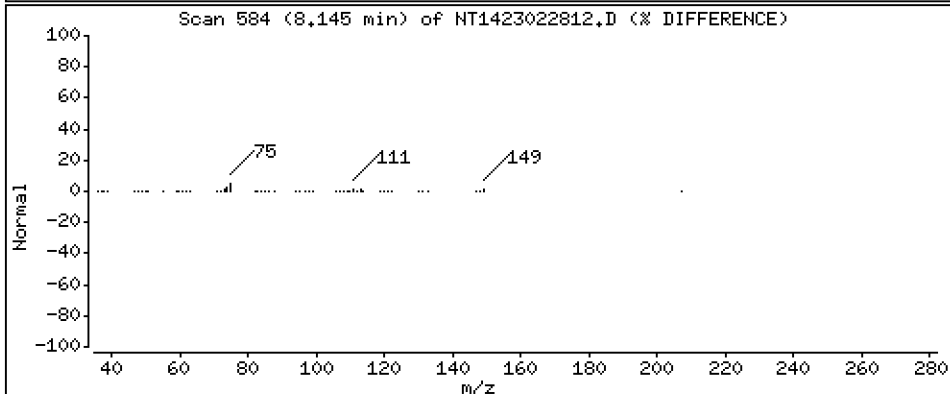
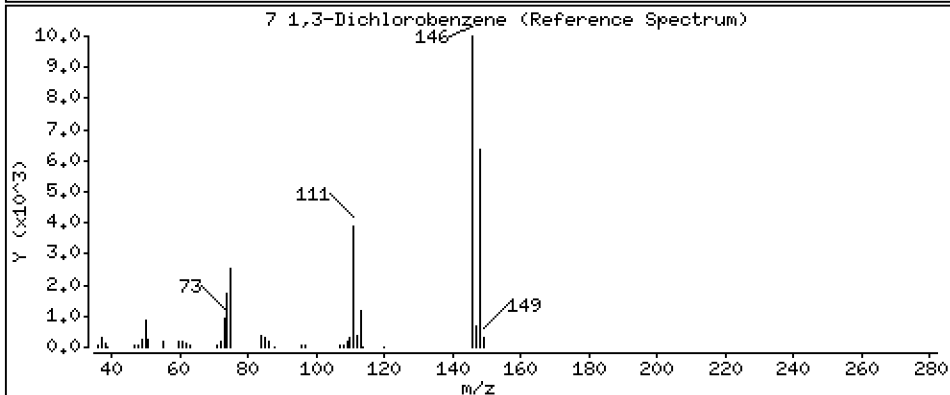
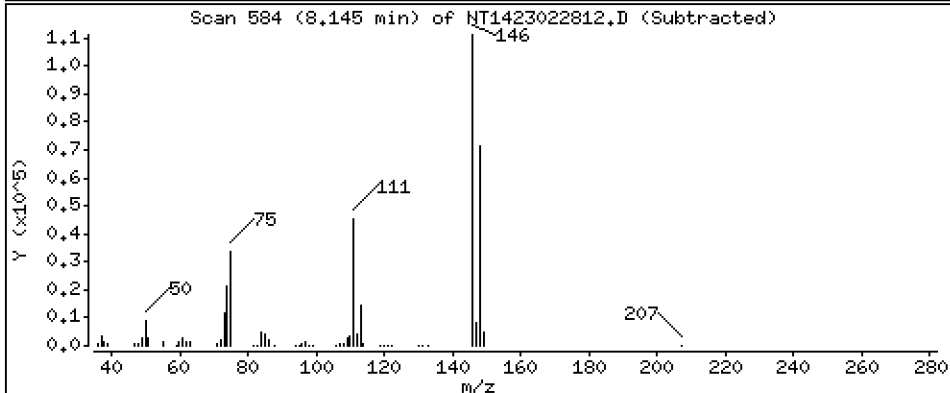
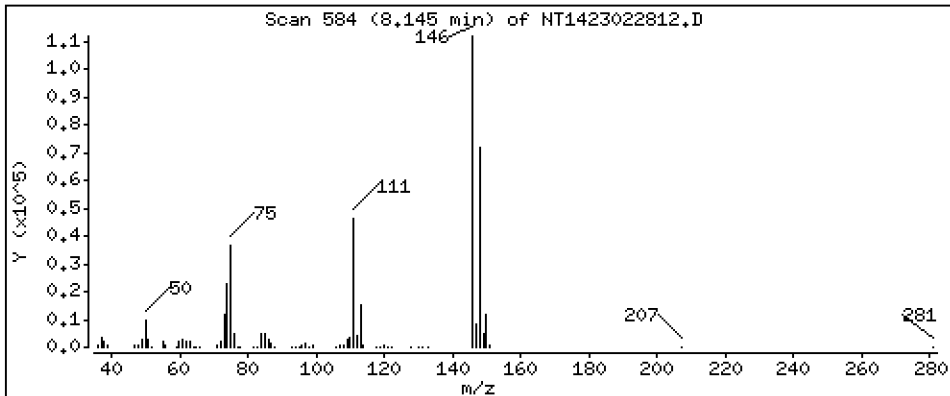
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 4.795 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

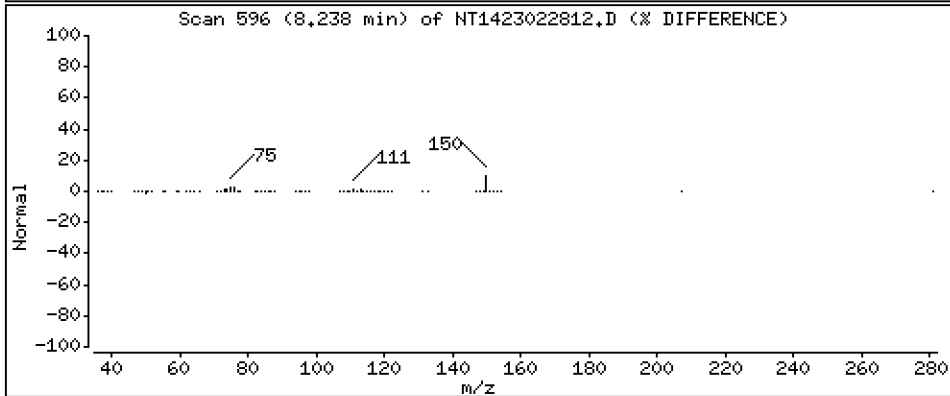
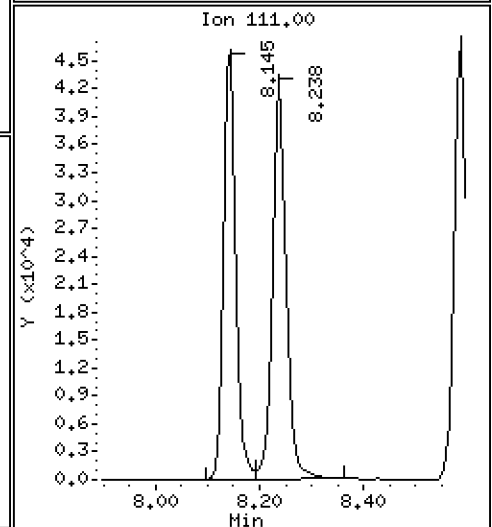
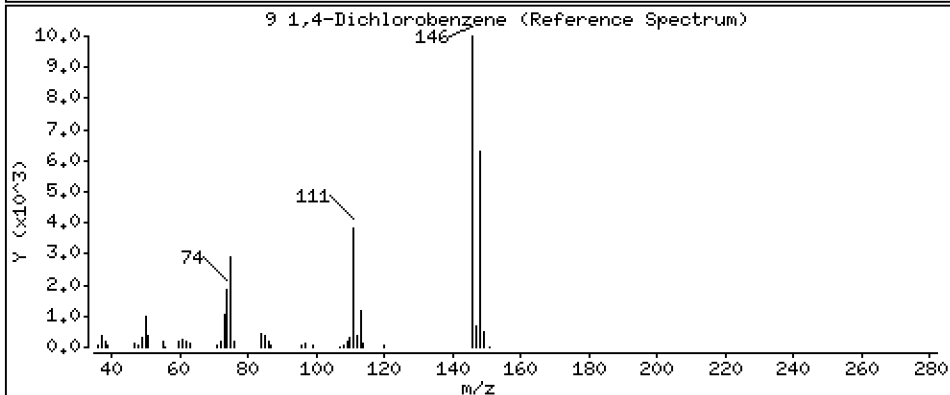
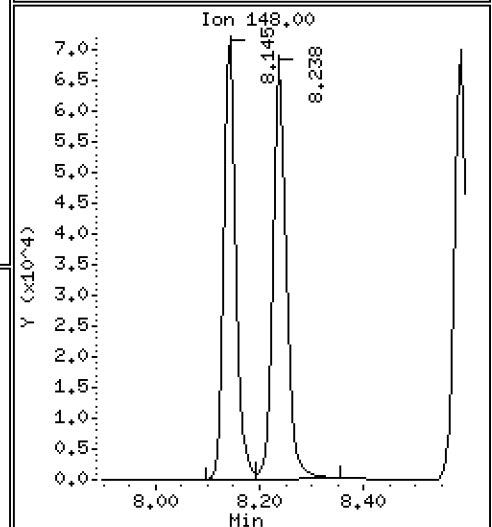
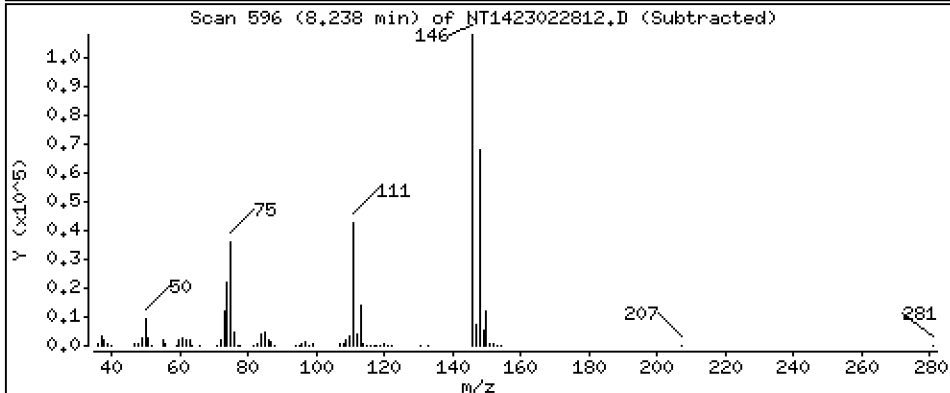
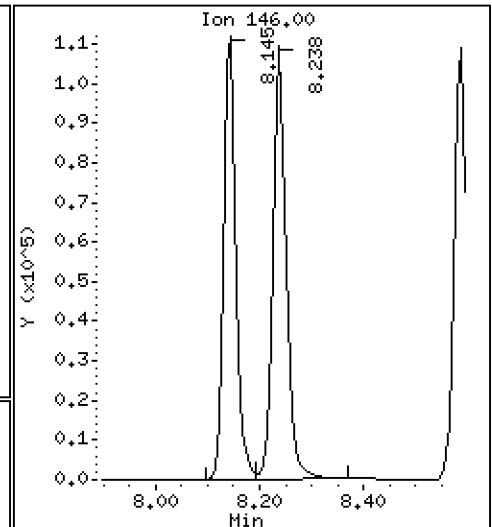
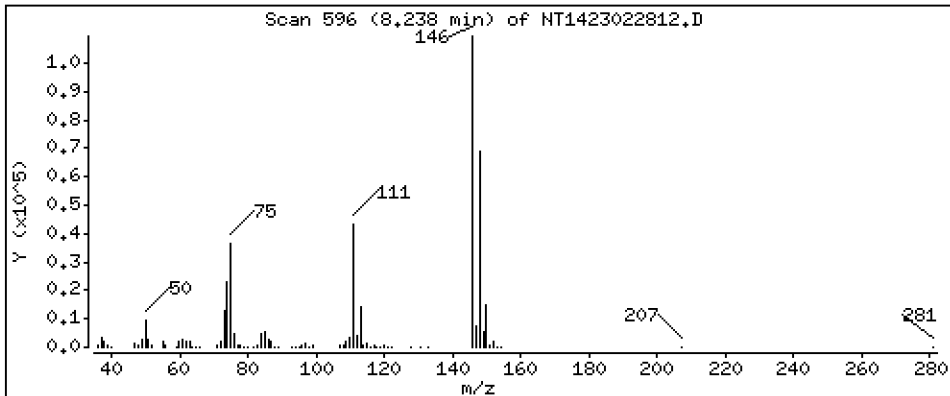
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,800 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

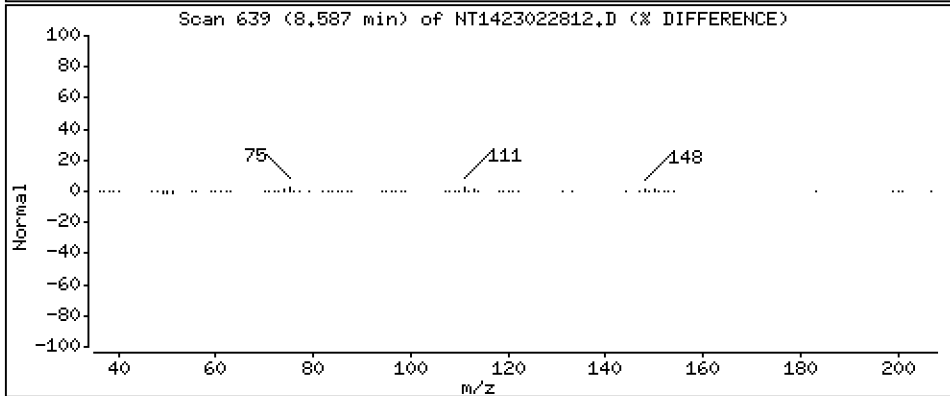
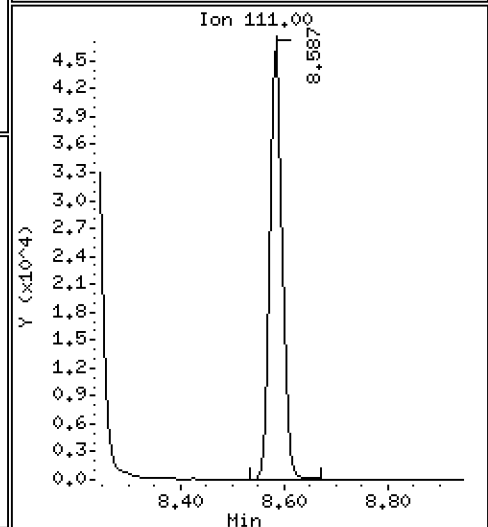
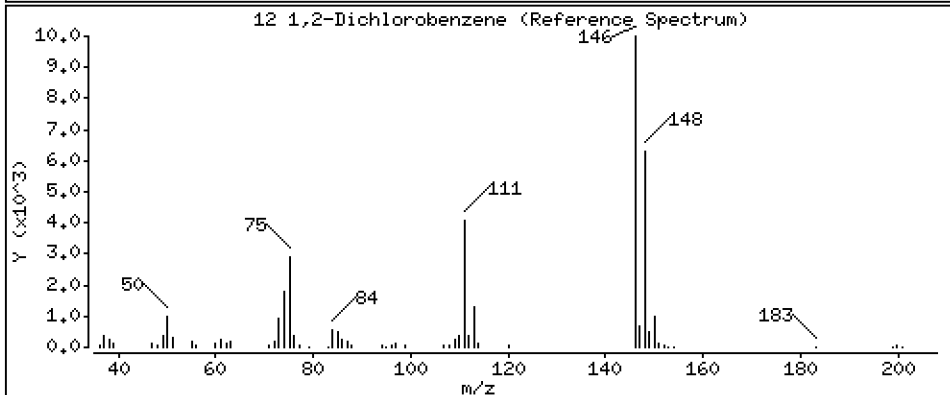
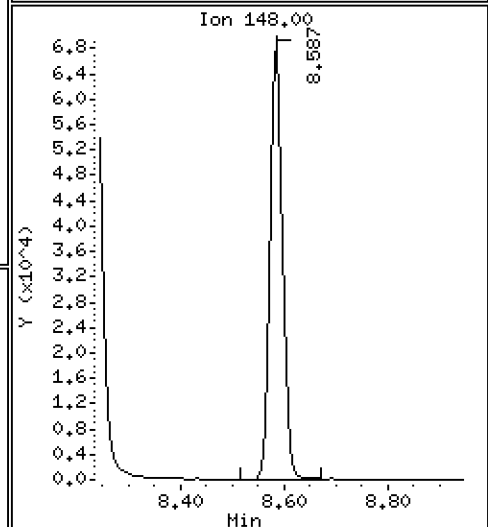
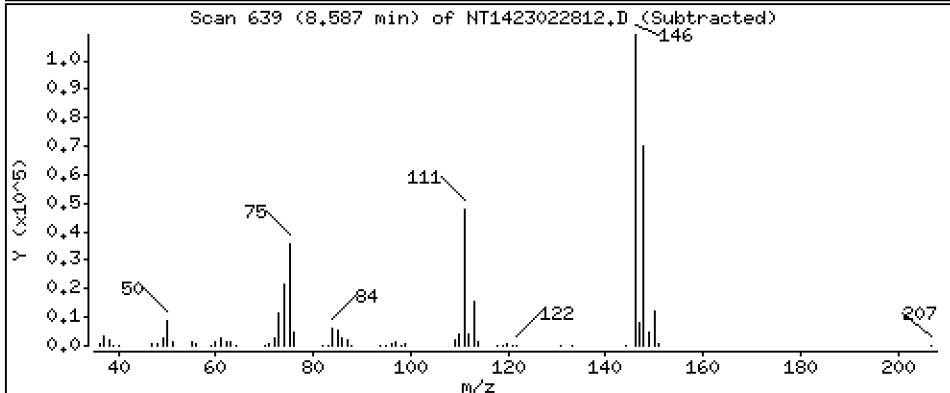
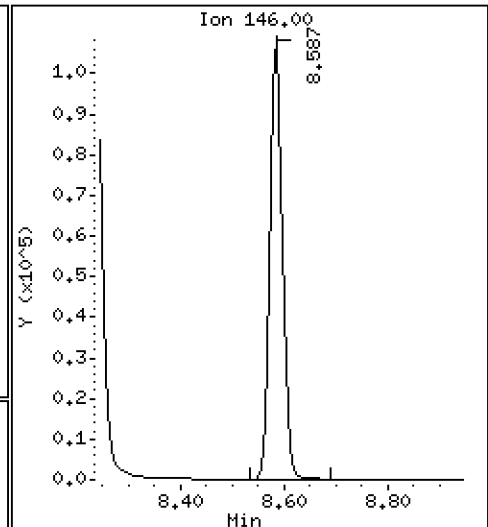
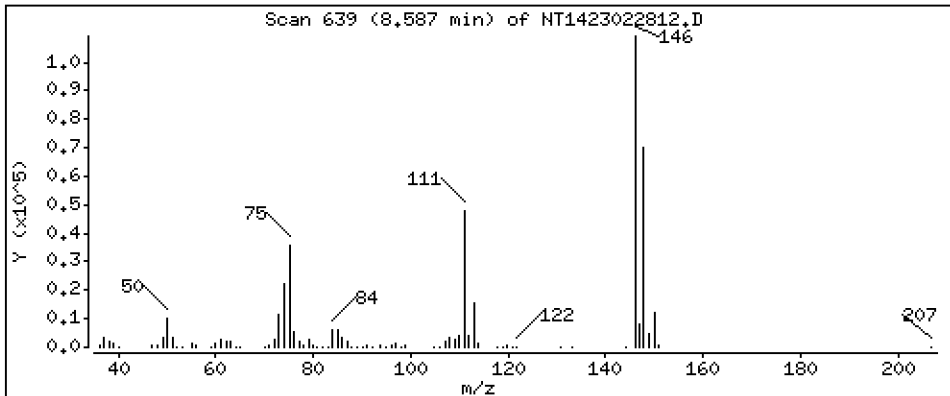
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,807 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

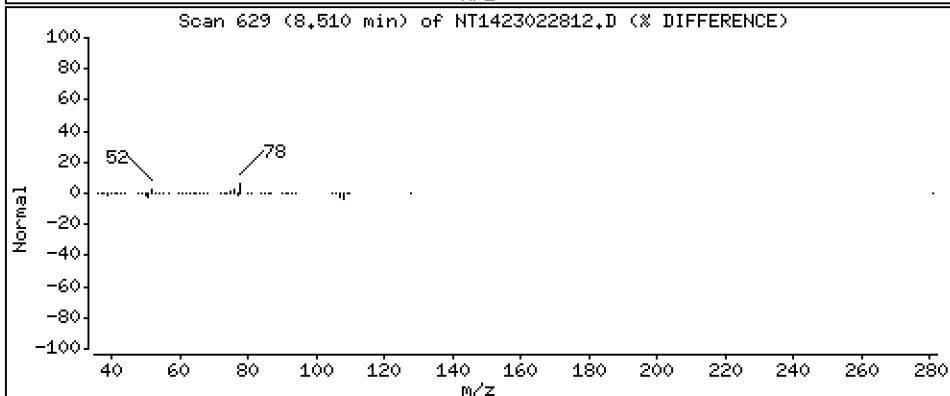
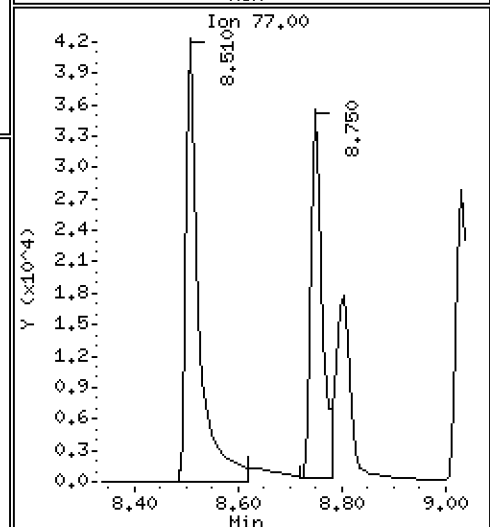
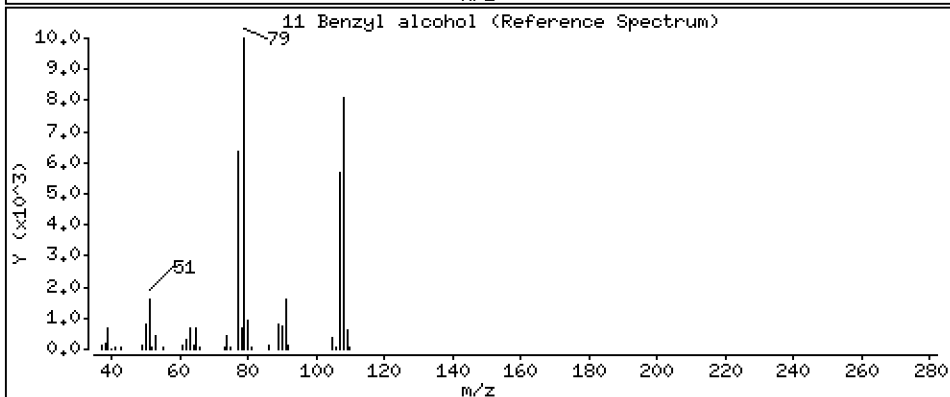
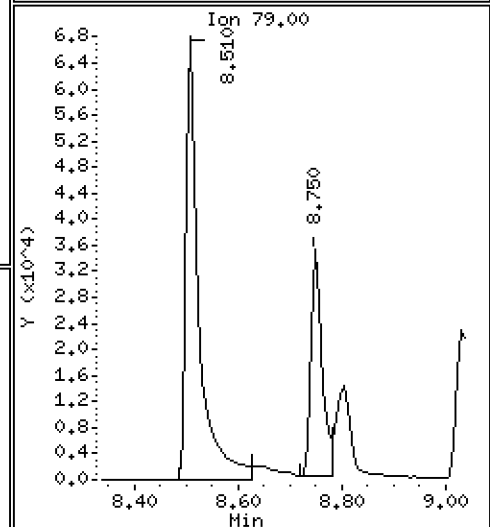
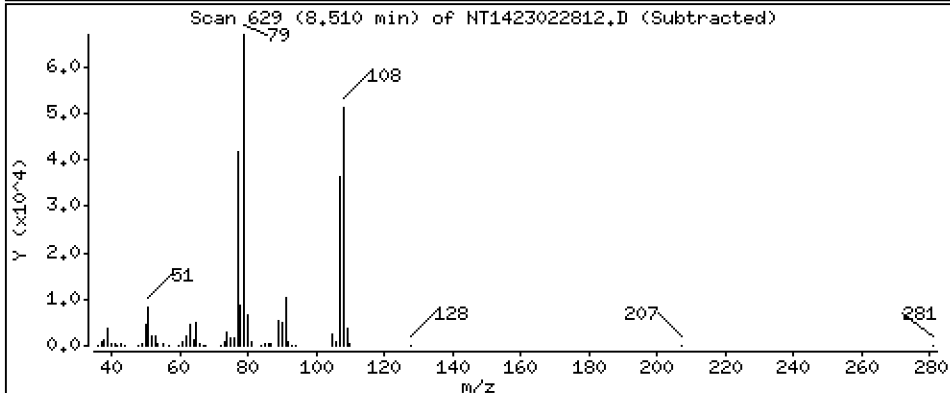
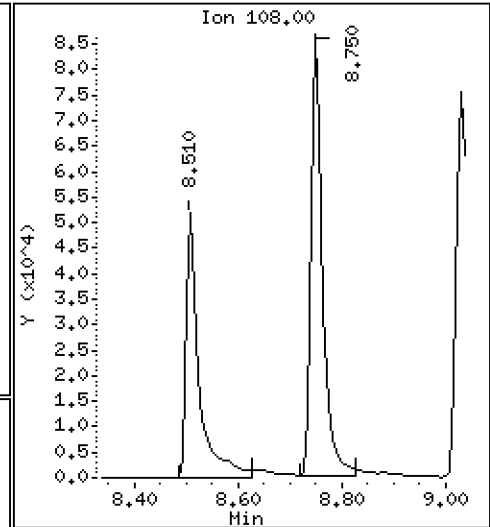
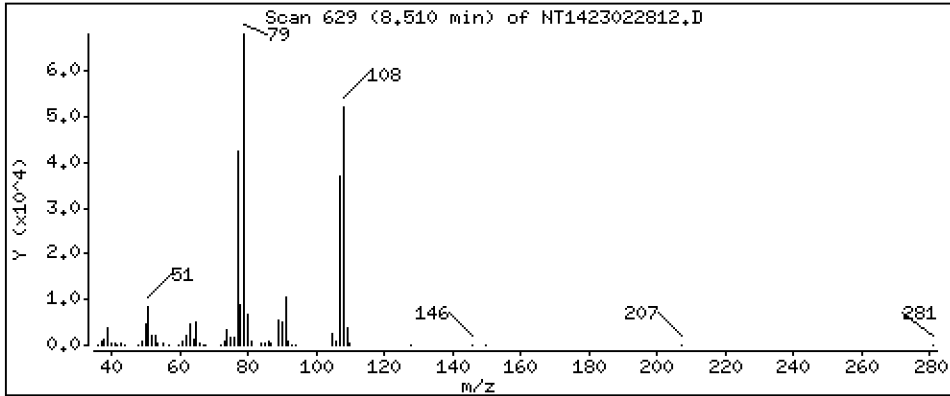
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 4,304 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

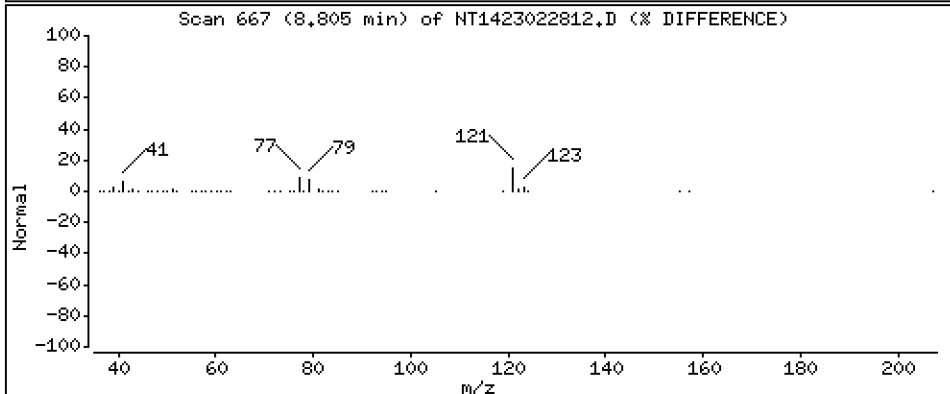
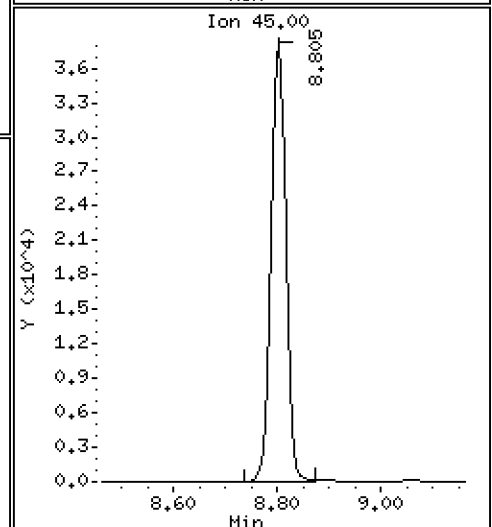
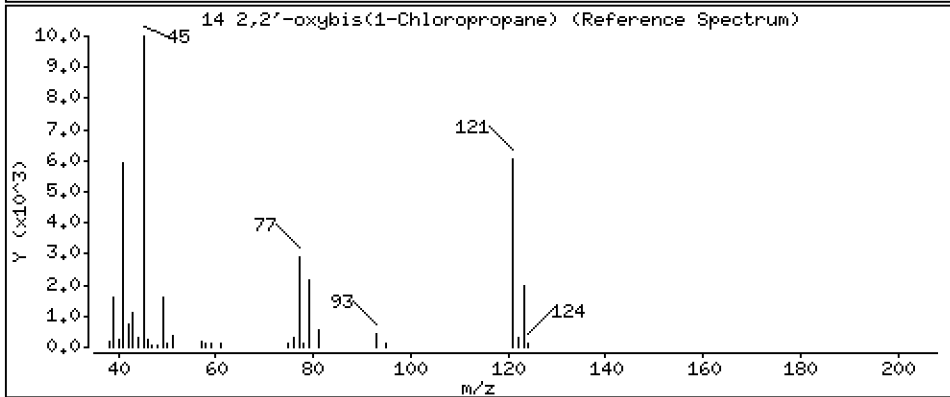
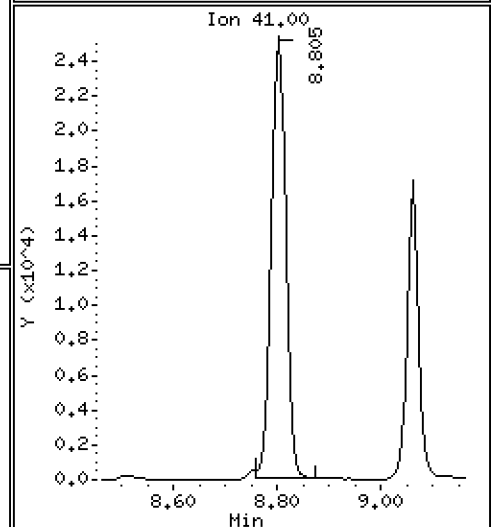
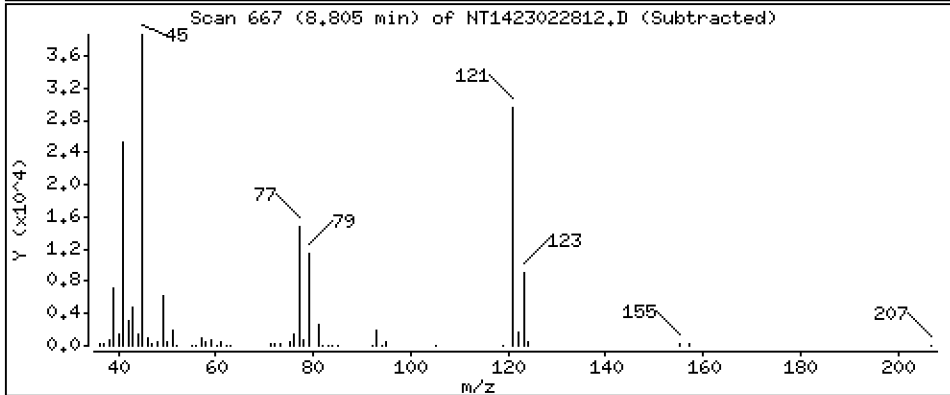
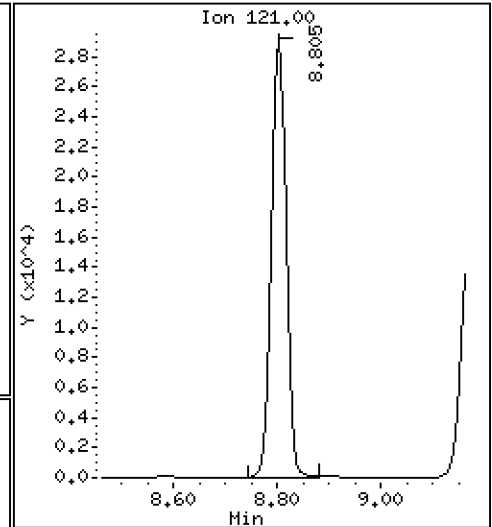
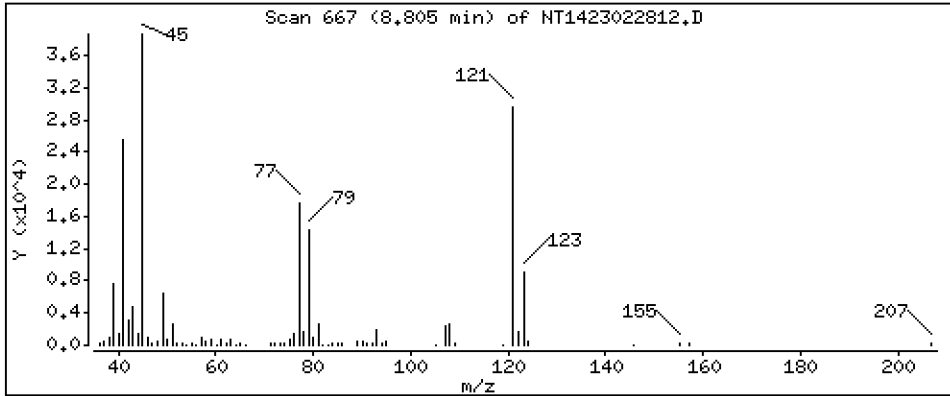
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 5,510 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

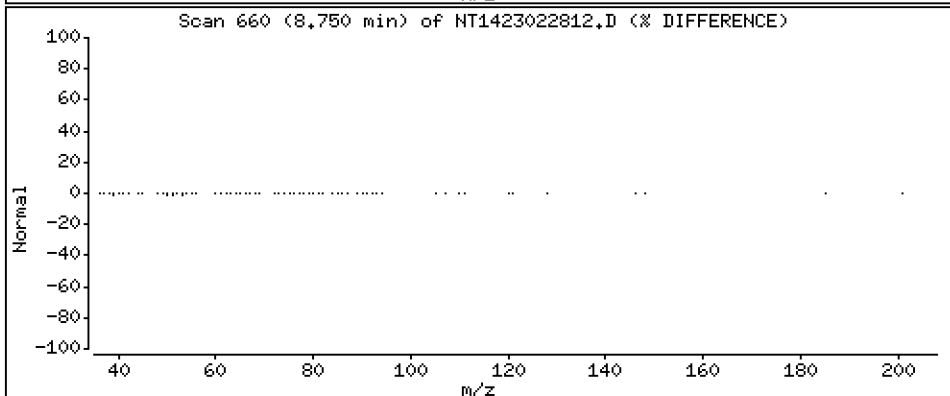
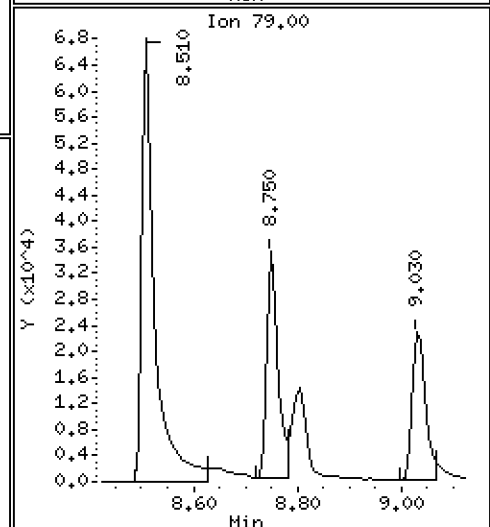
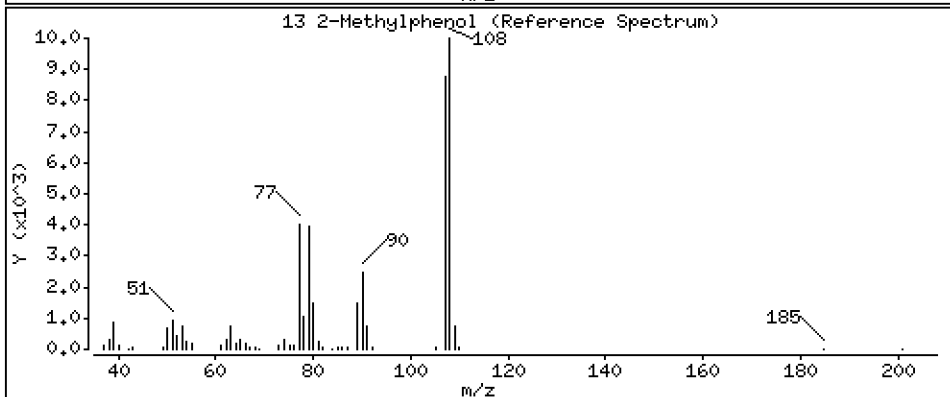
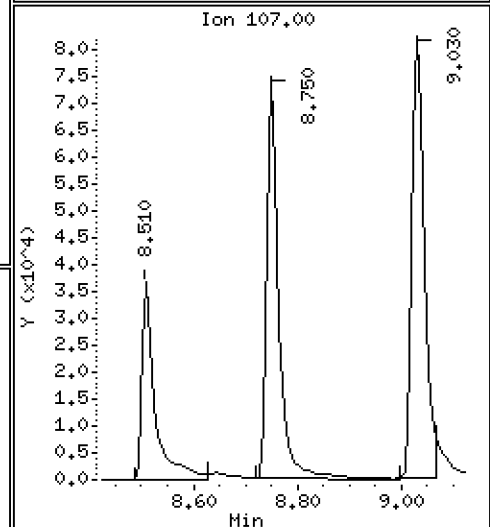
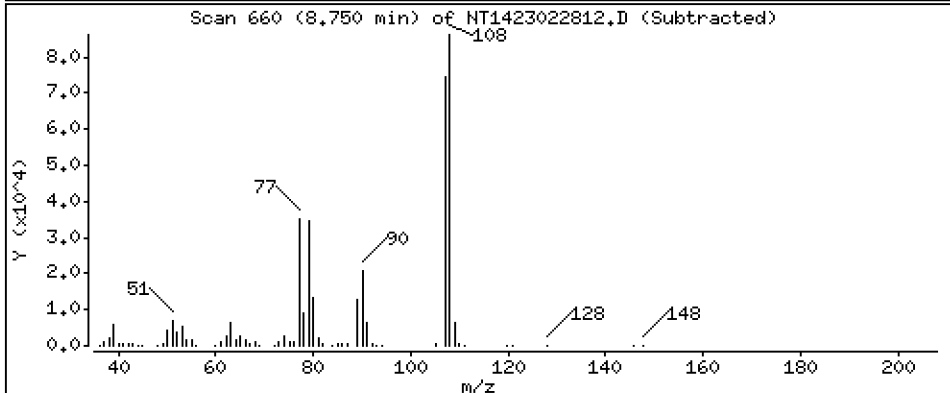
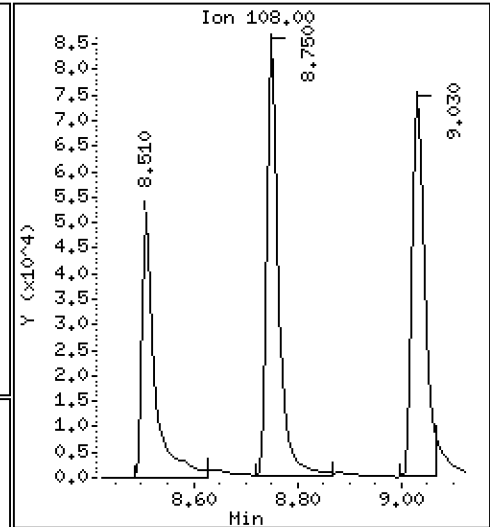
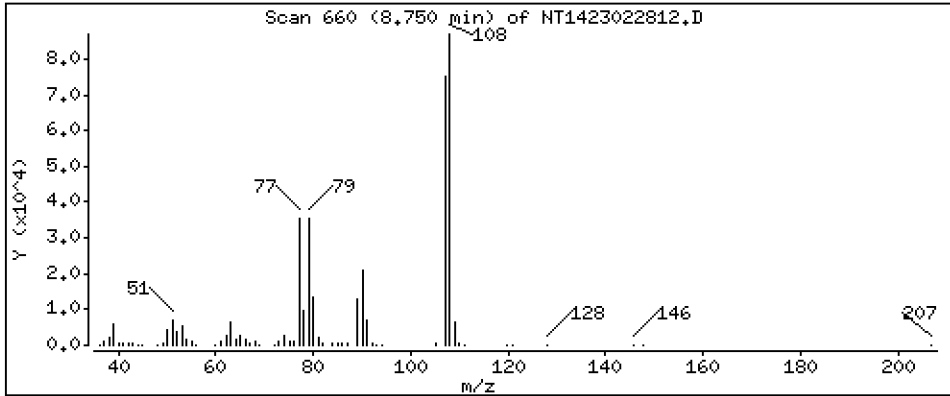
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.407 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

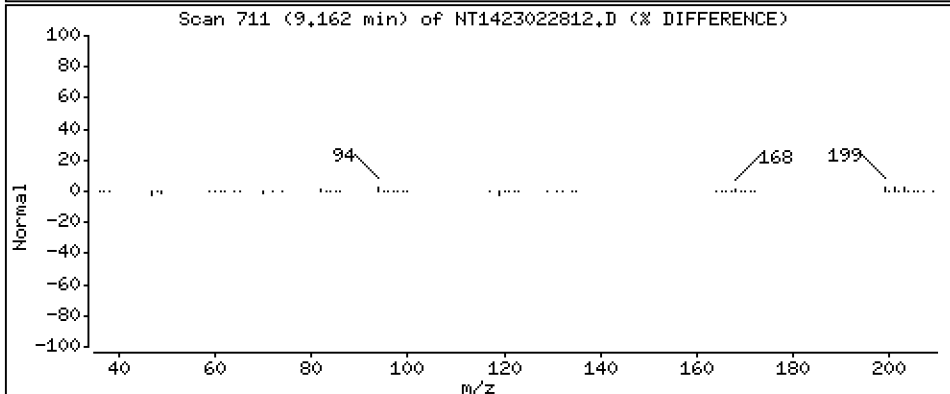
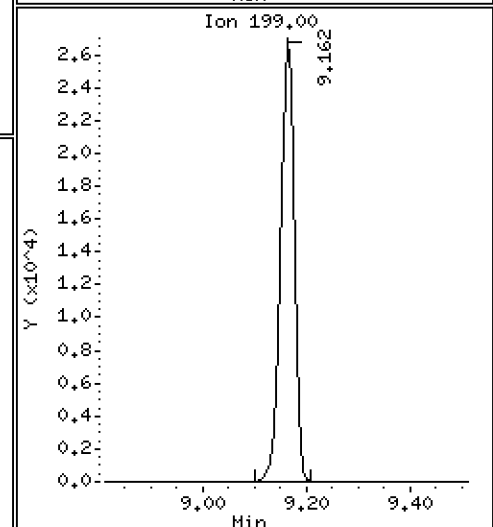
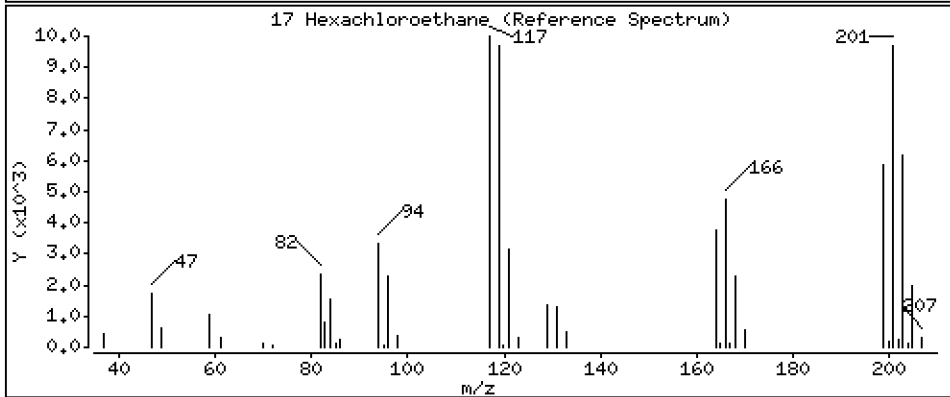
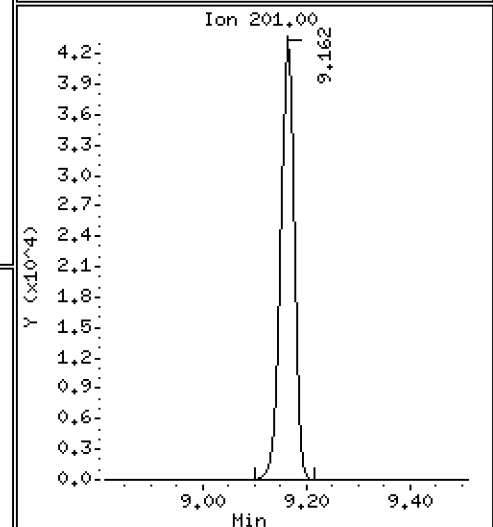
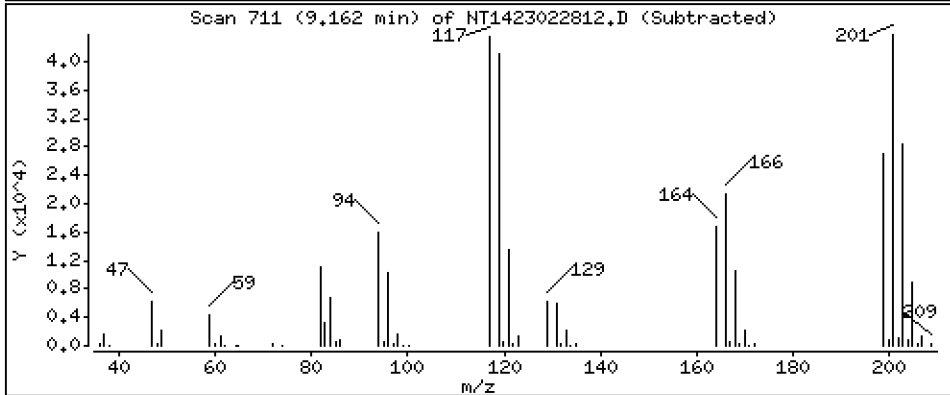
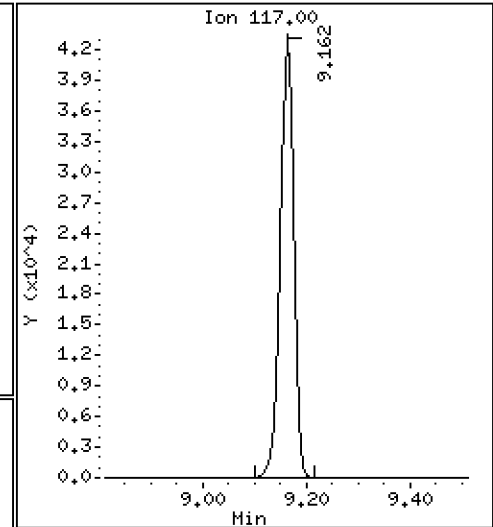
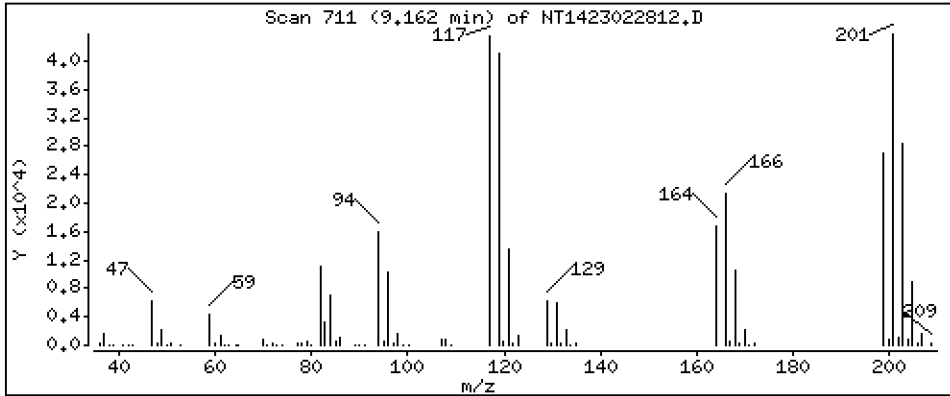
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 5,089 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

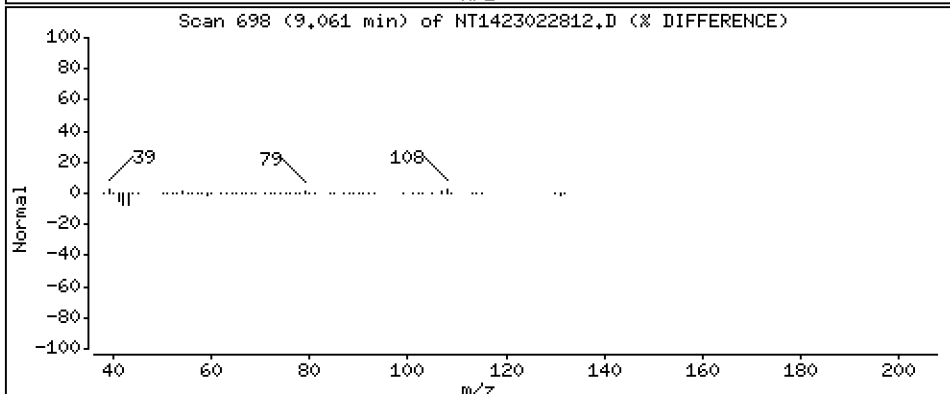
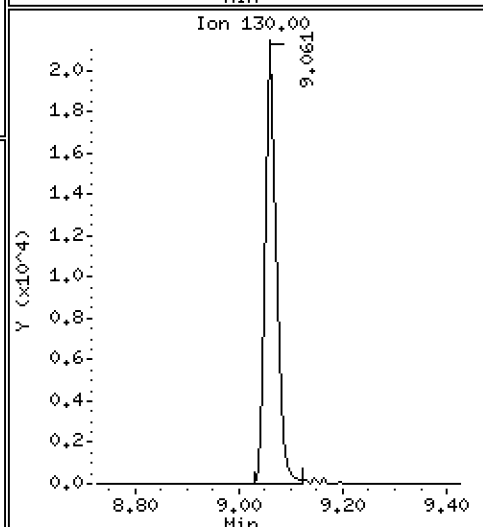
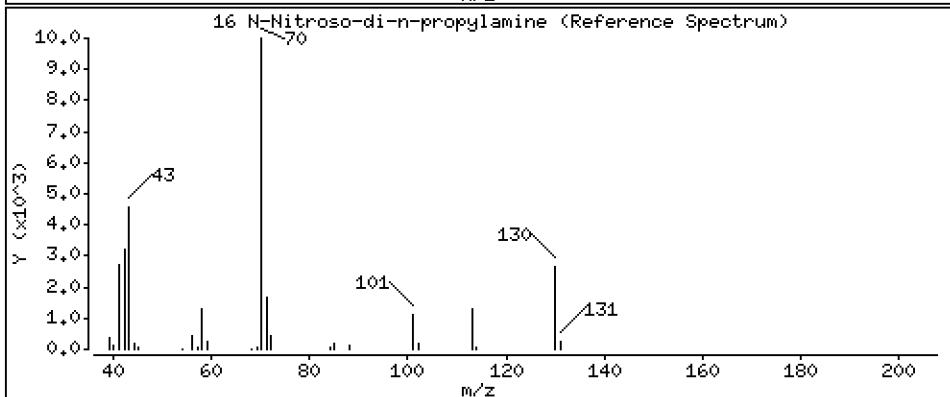
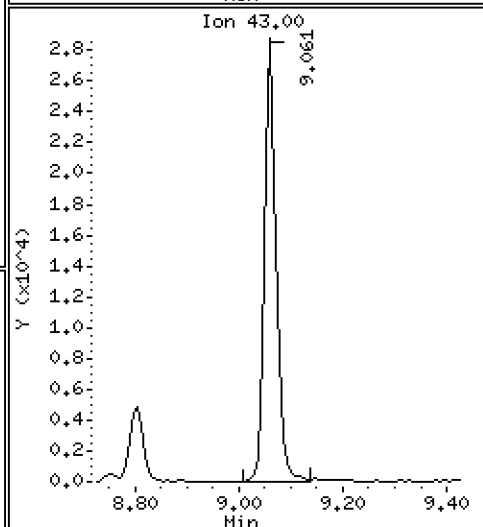
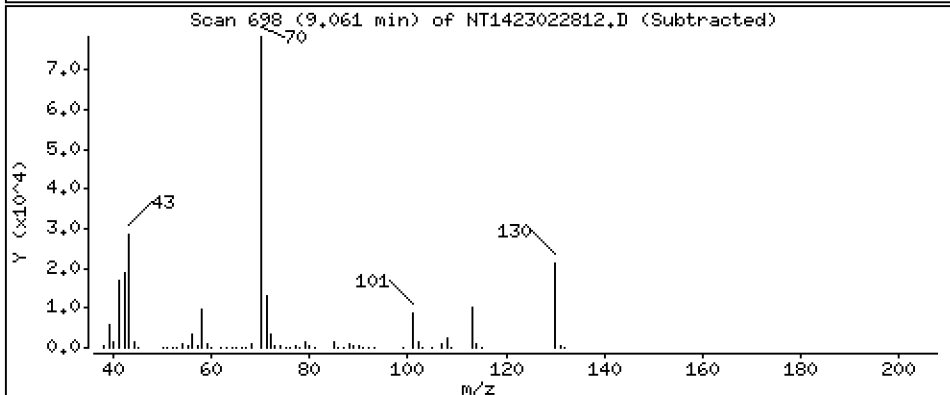
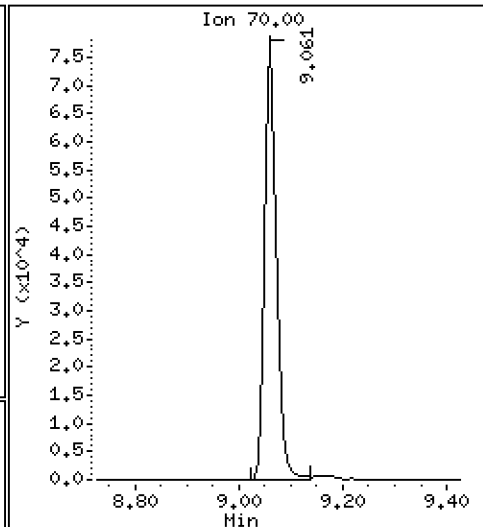
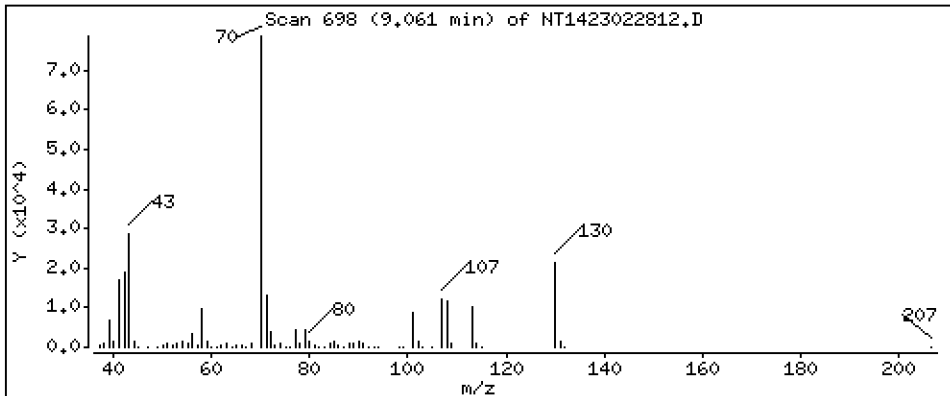
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,138 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

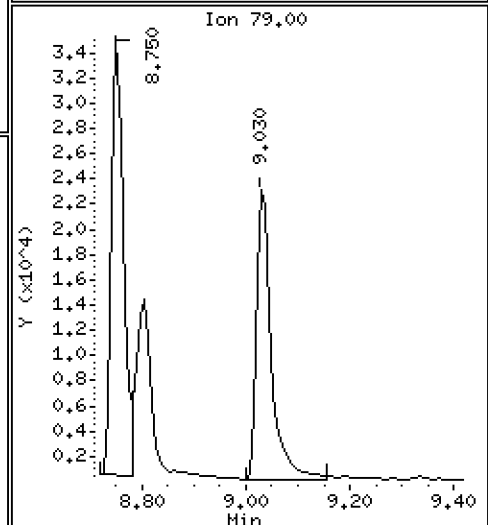
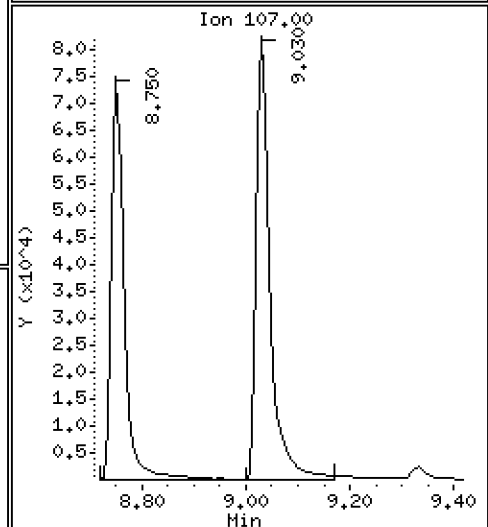
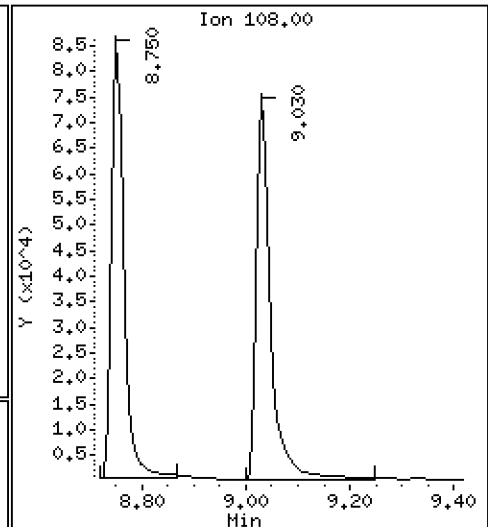
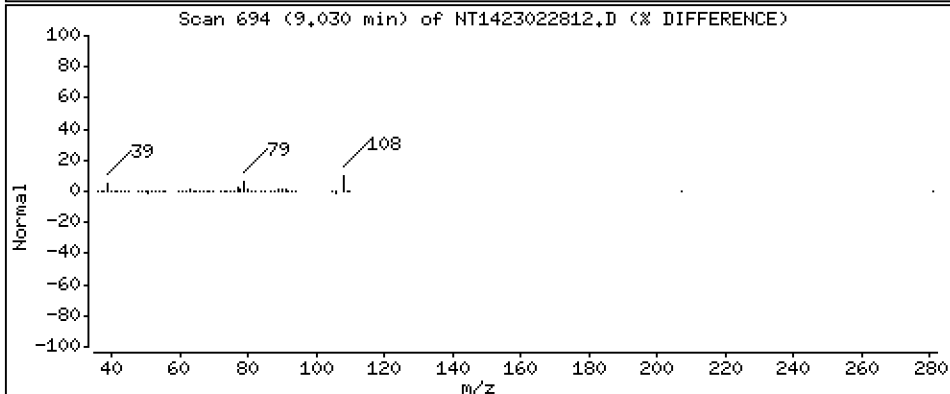
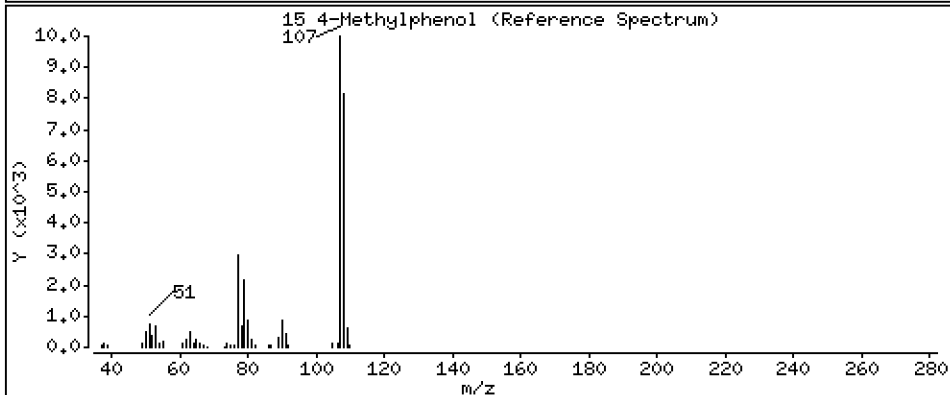
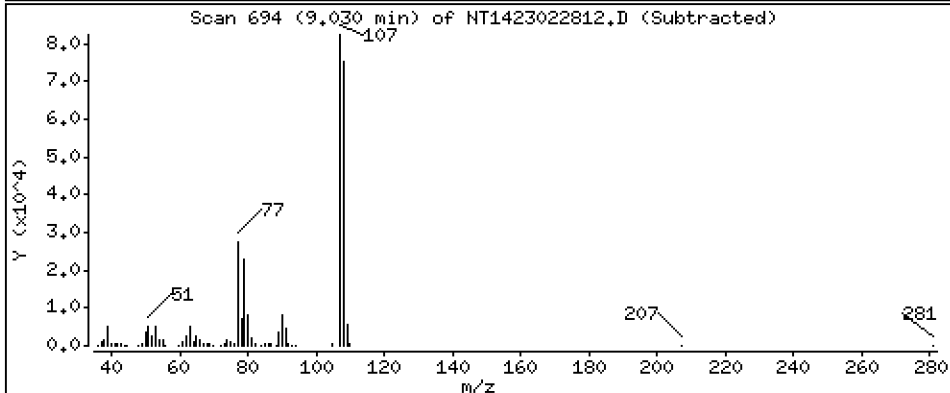
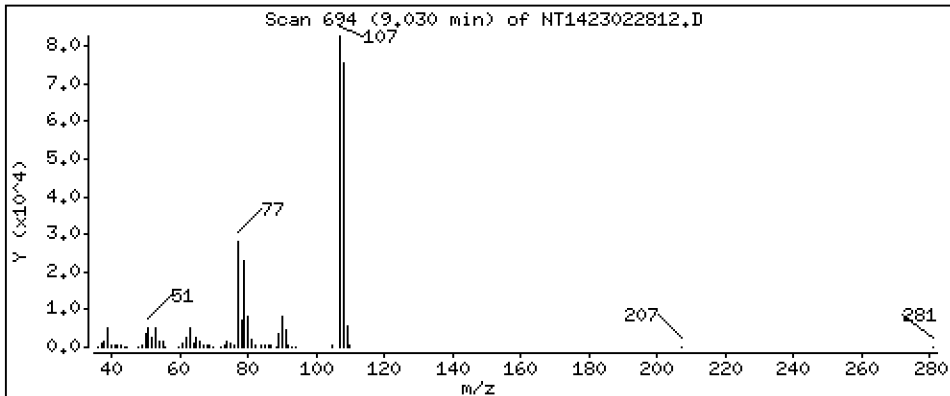
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,218 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

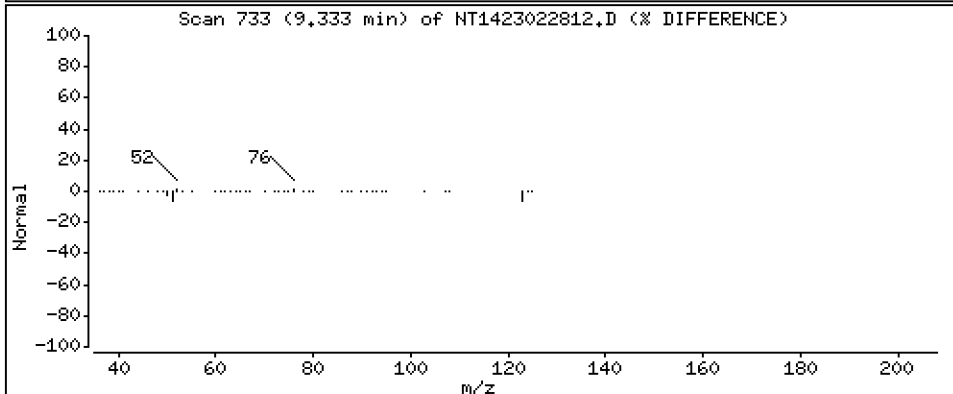
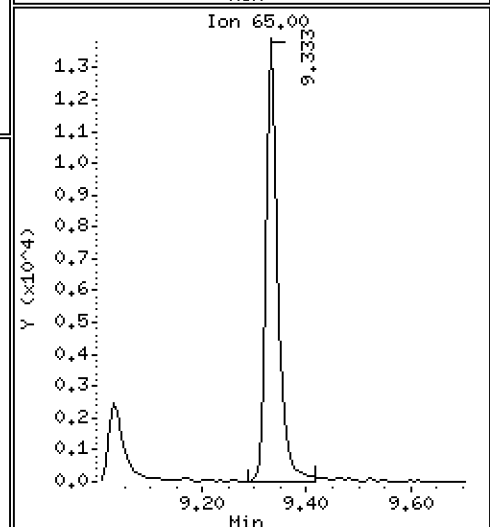
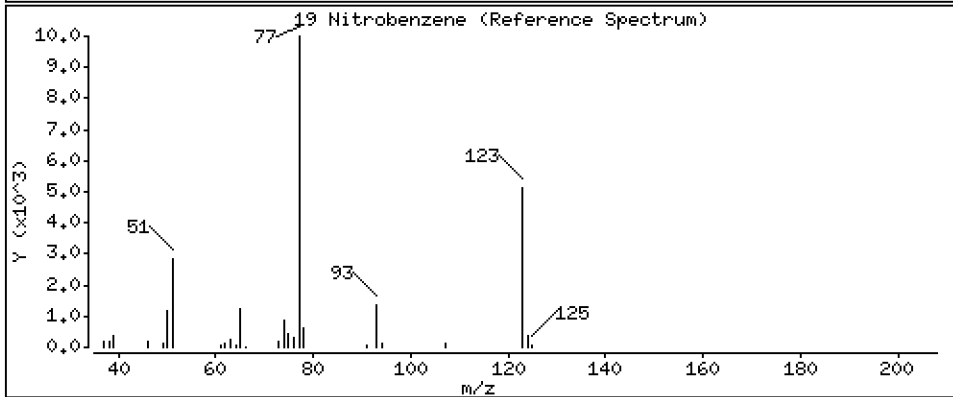
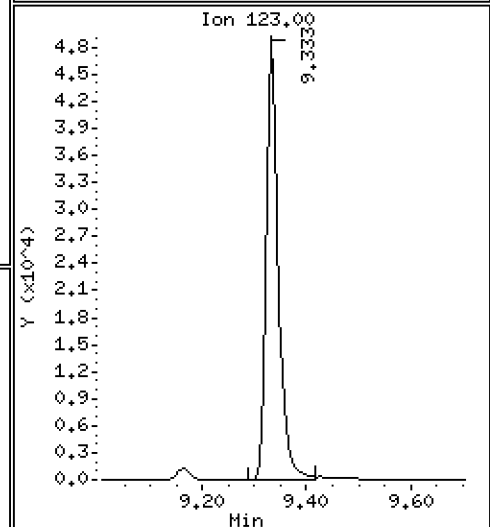
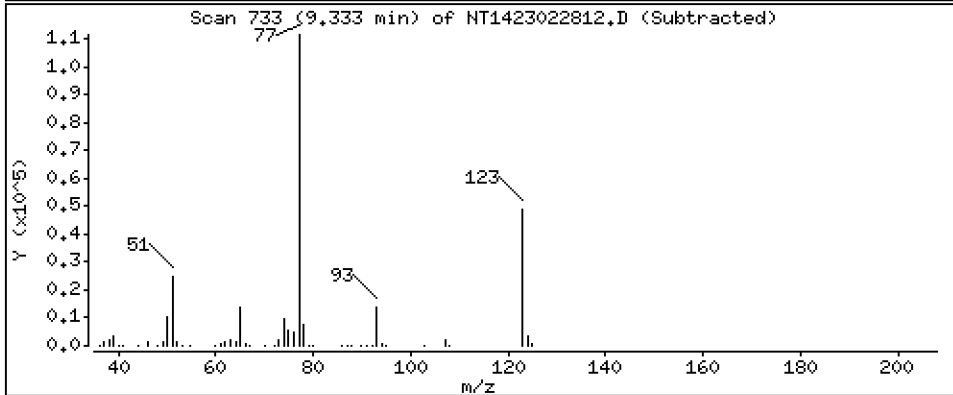
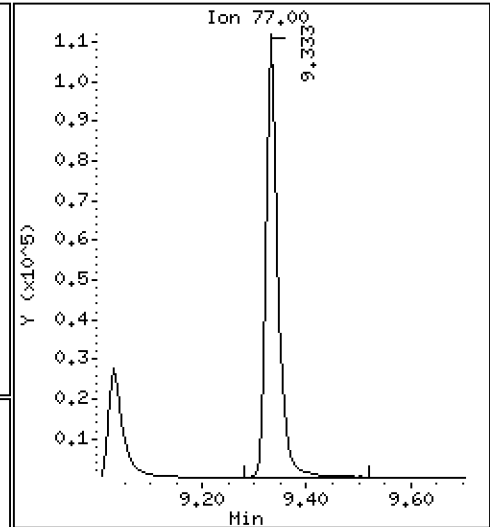
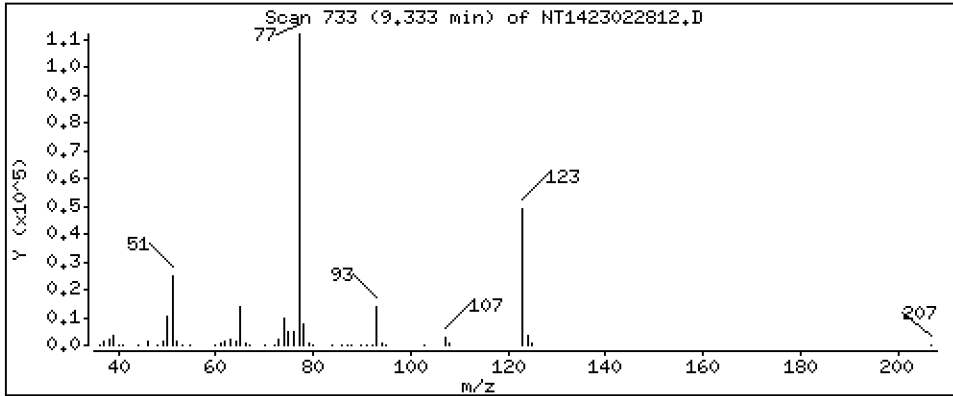
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 5,059 ug/mL

19 Nitrobenzene



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

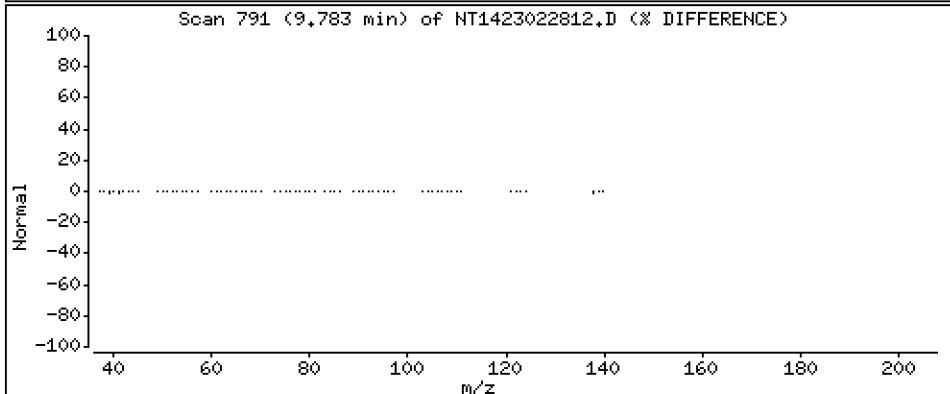
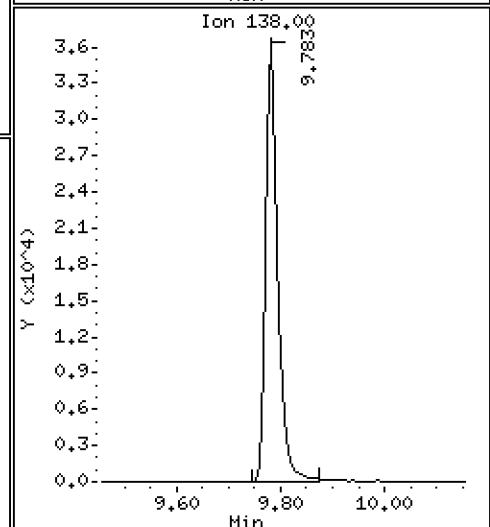
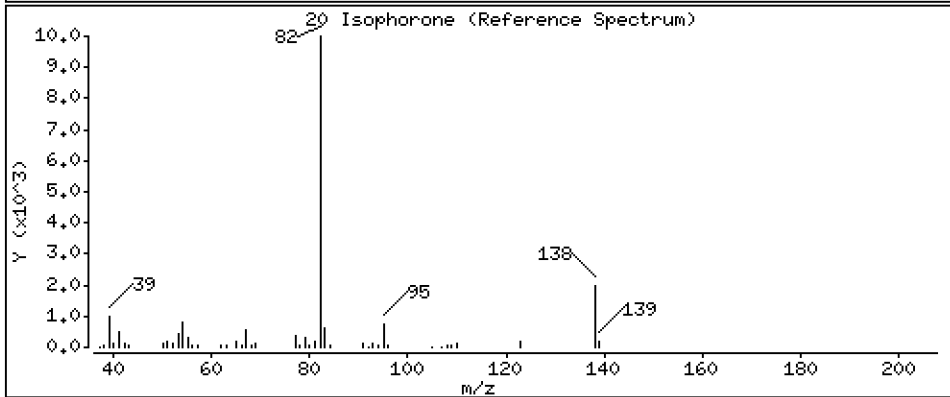
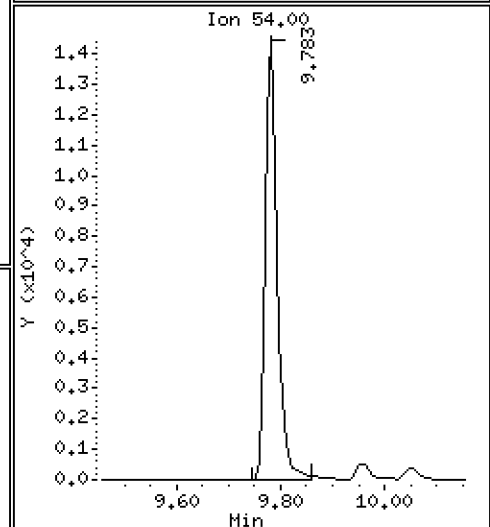
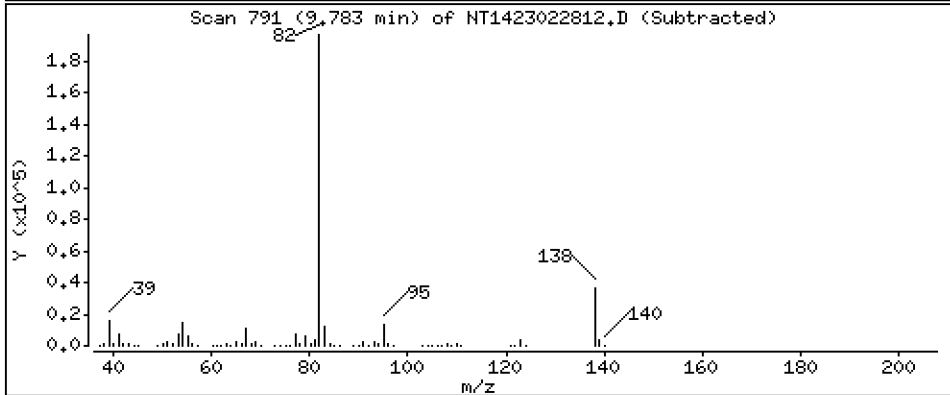
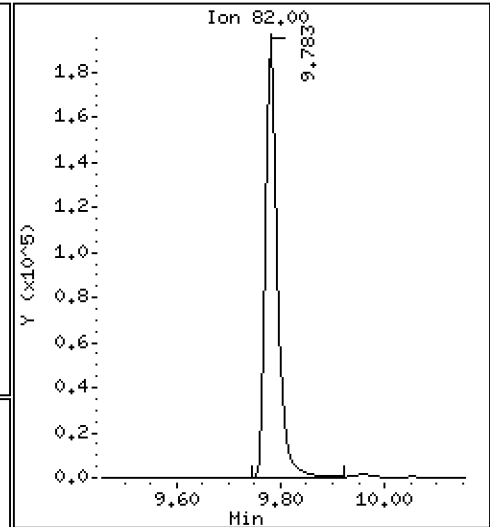
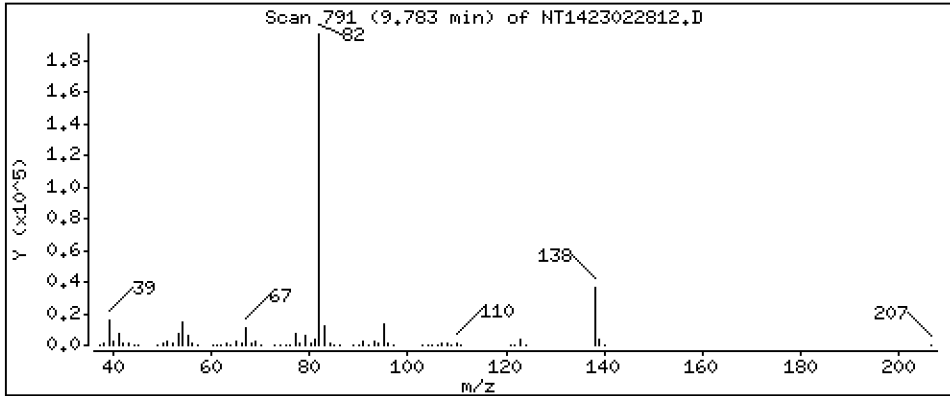
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 6.410 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

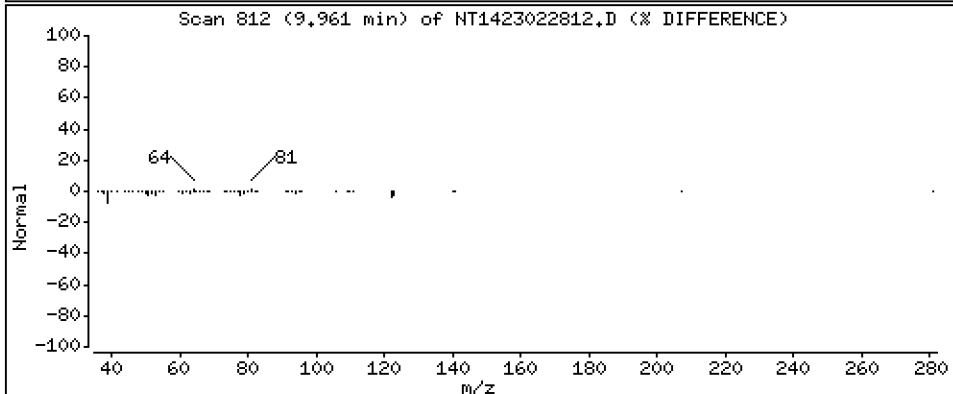
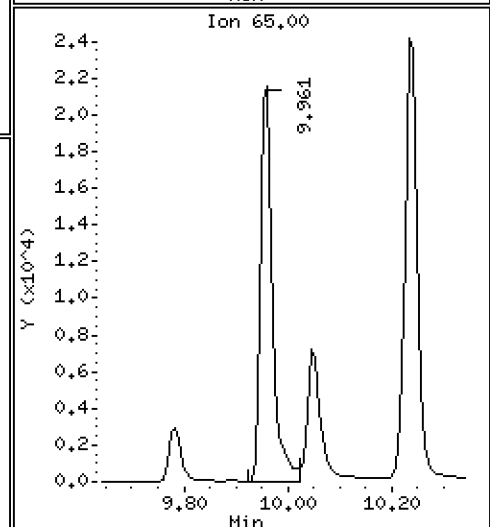
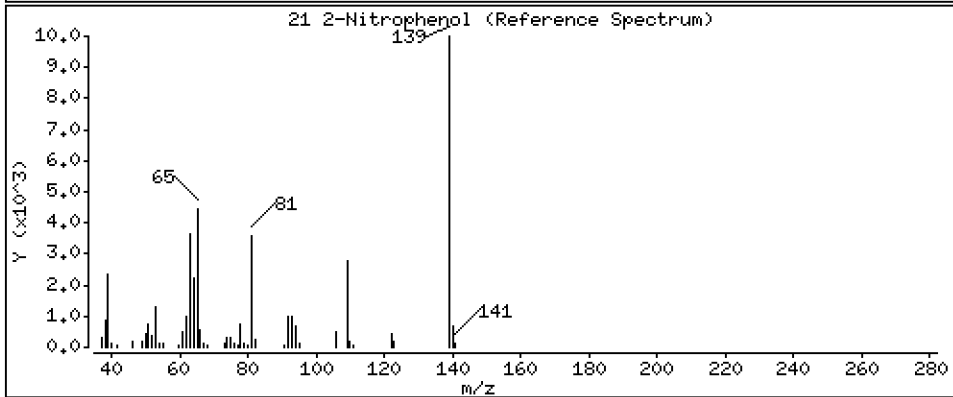
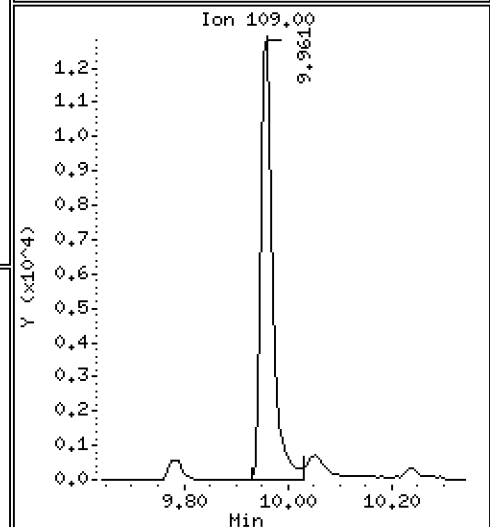
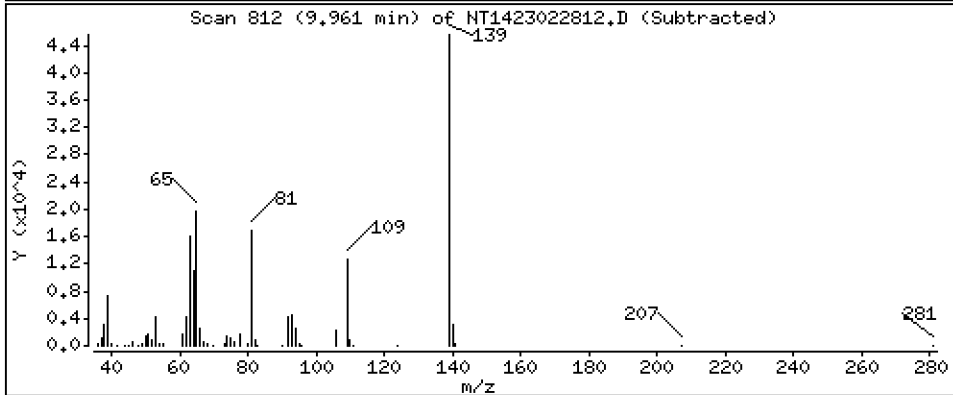
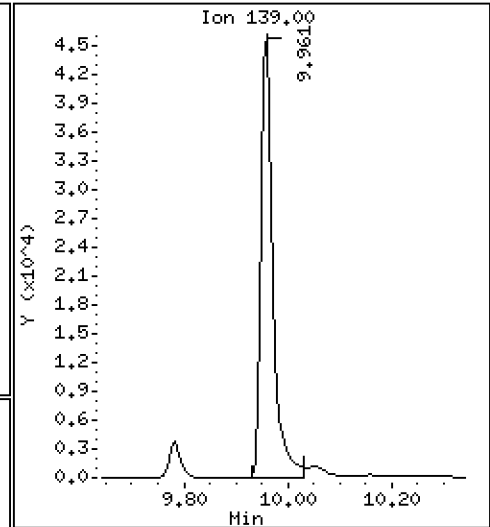
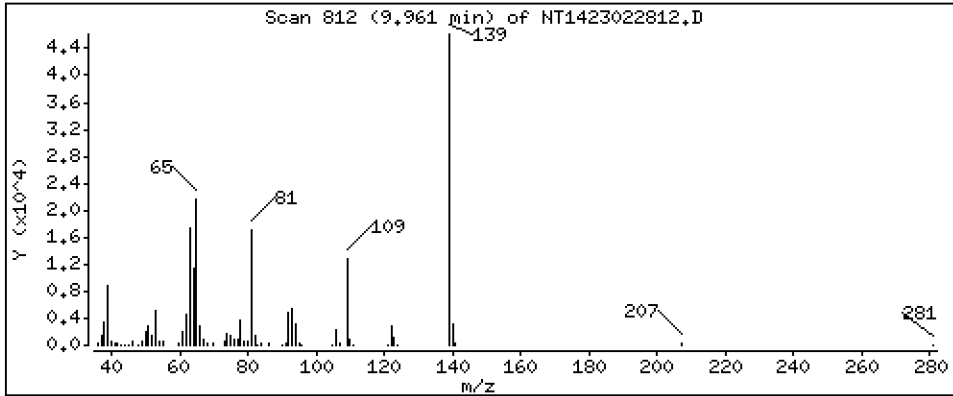
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,126 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

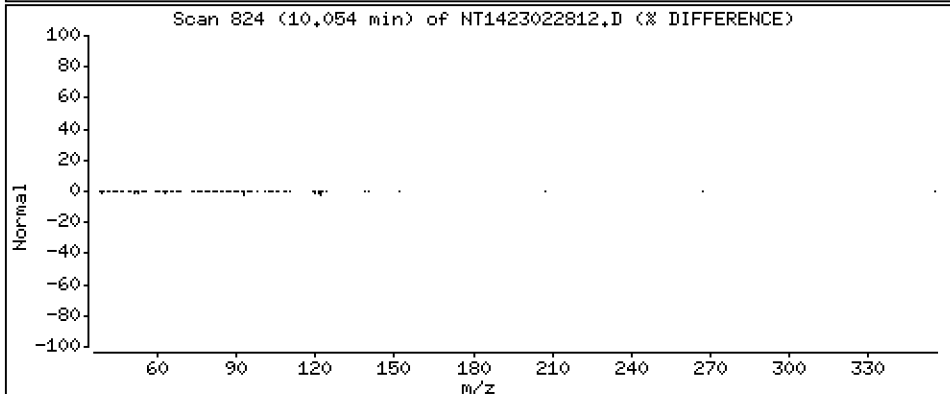
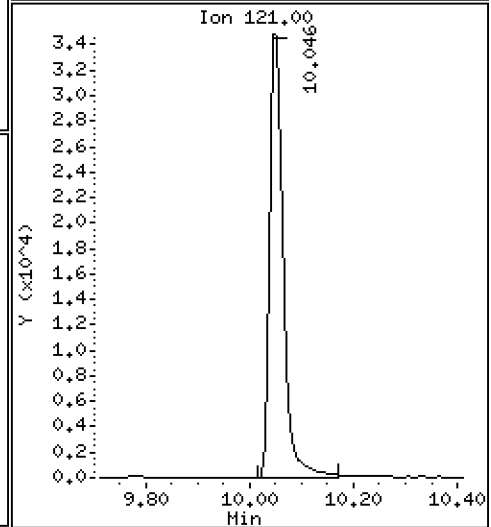
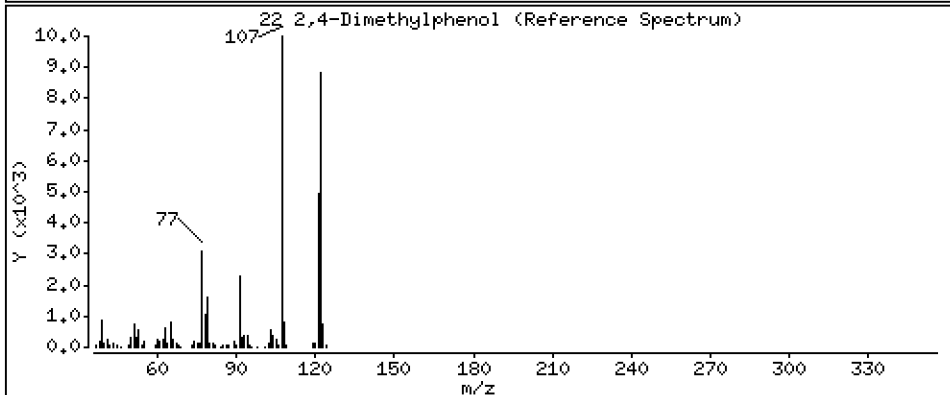
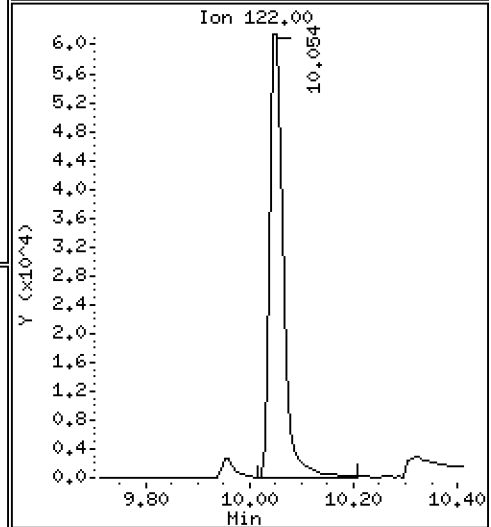
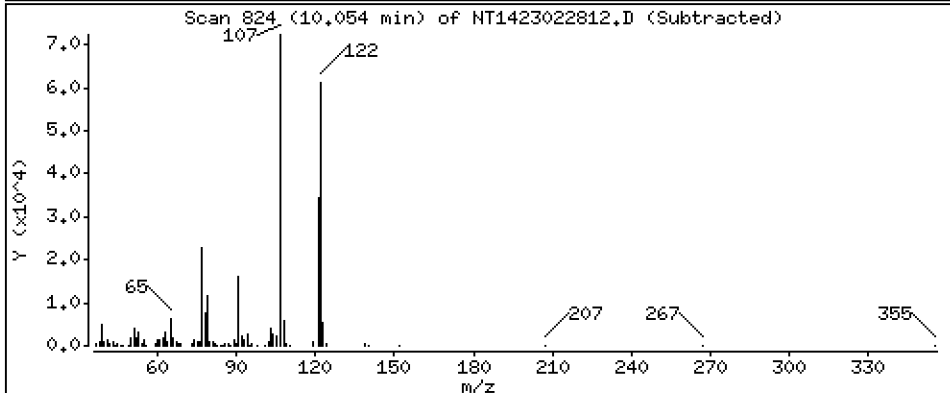
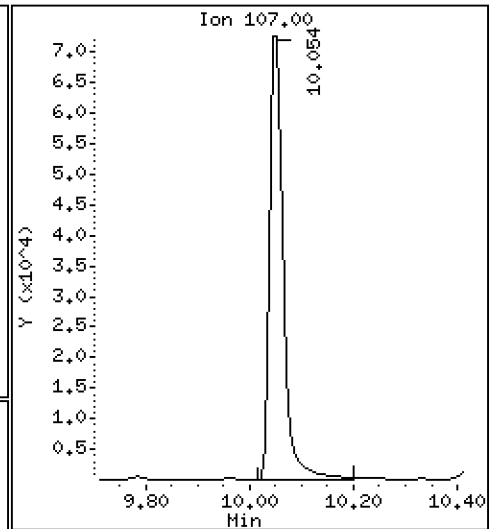
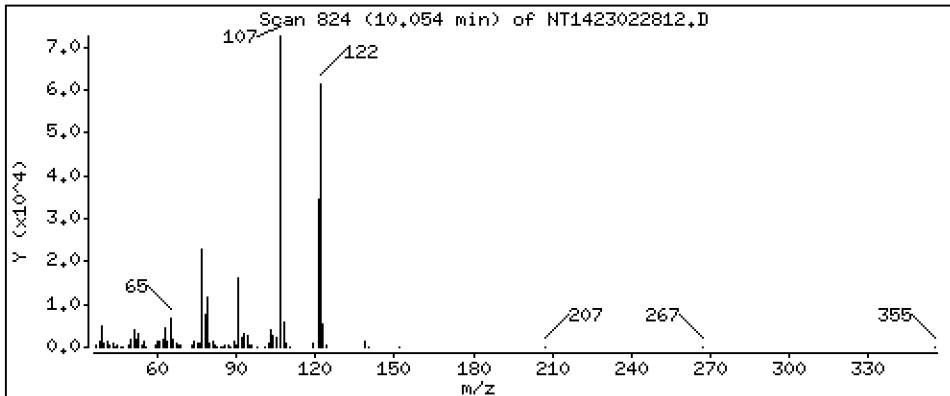
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 3,890 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

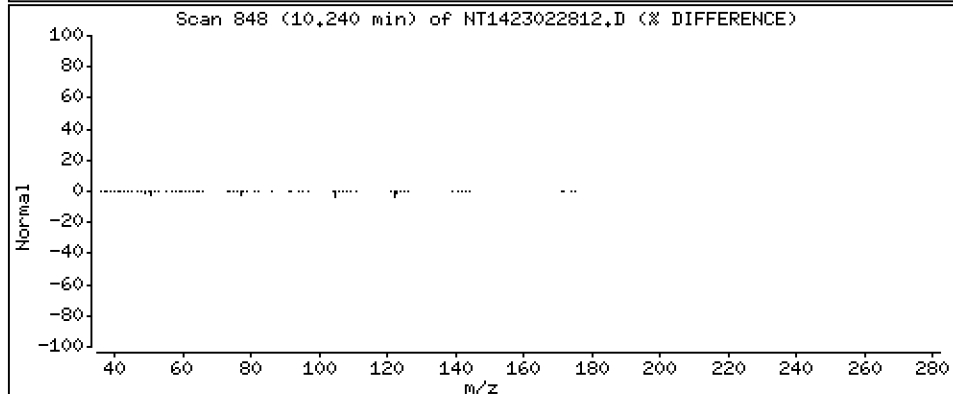
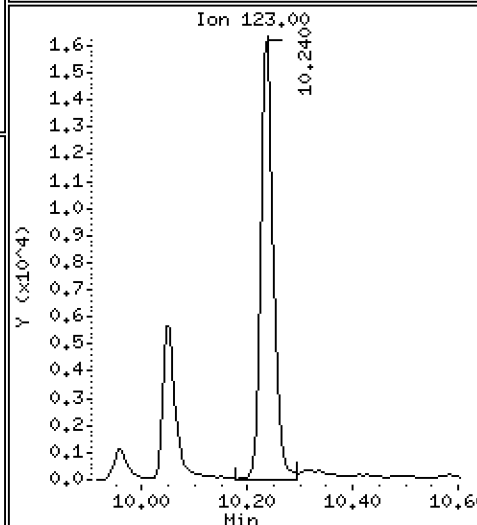
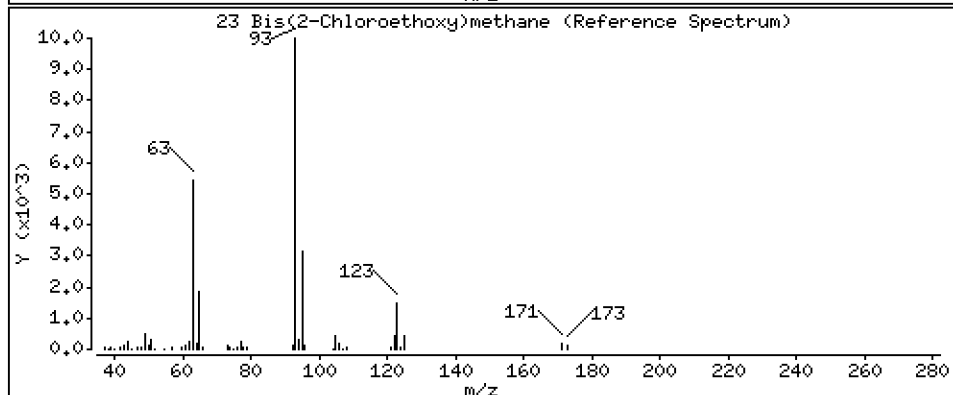
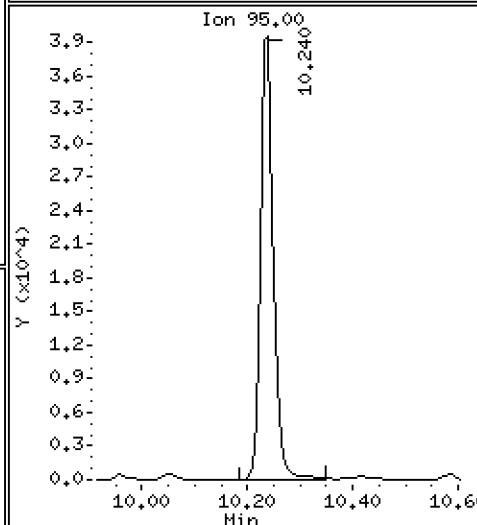
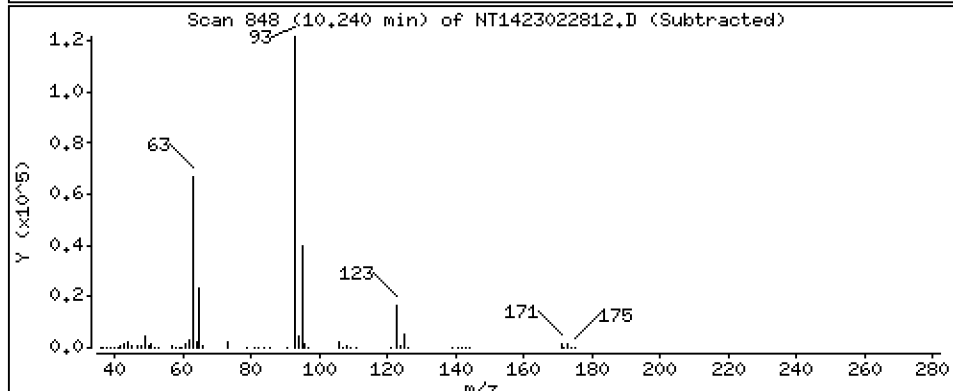
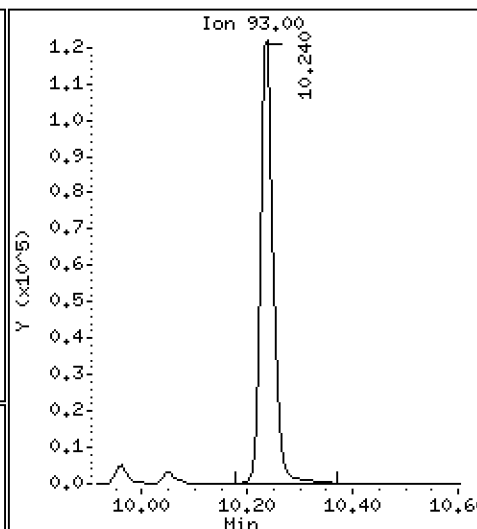
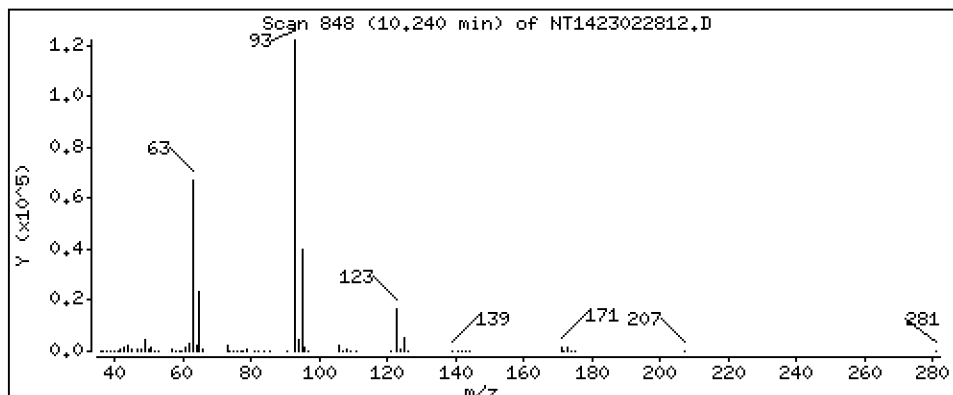
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,764 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

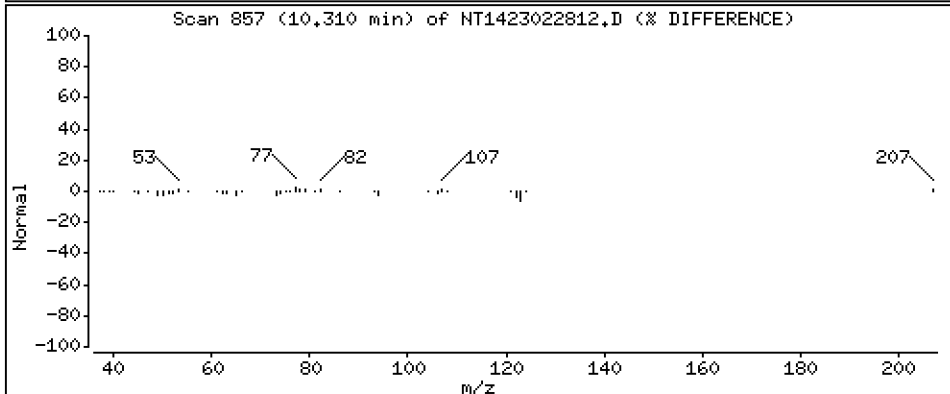
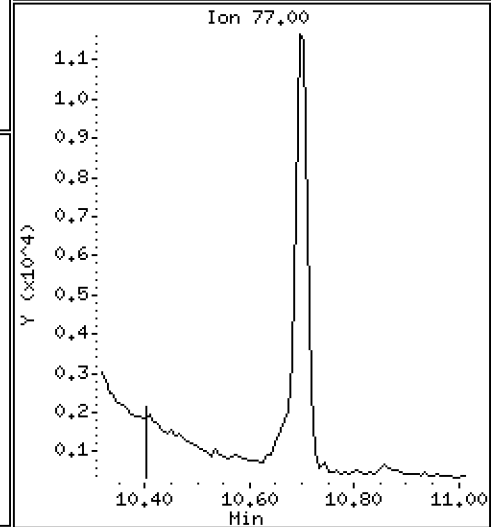
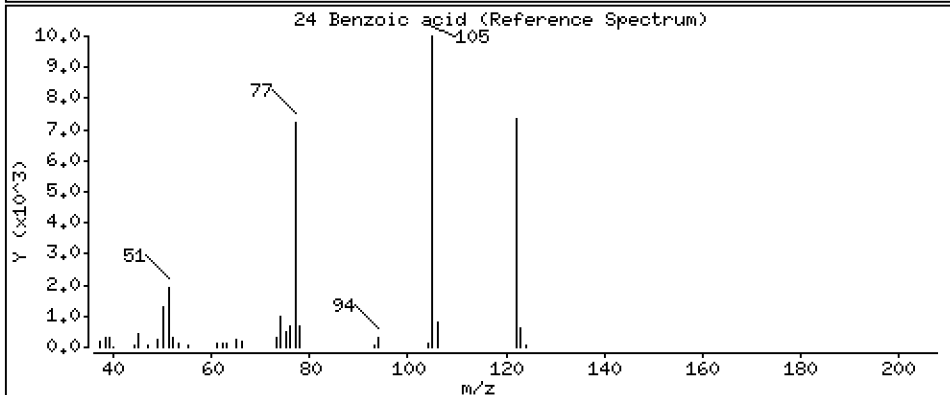
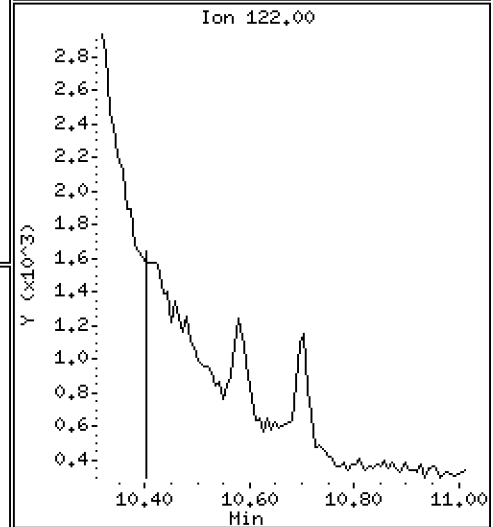
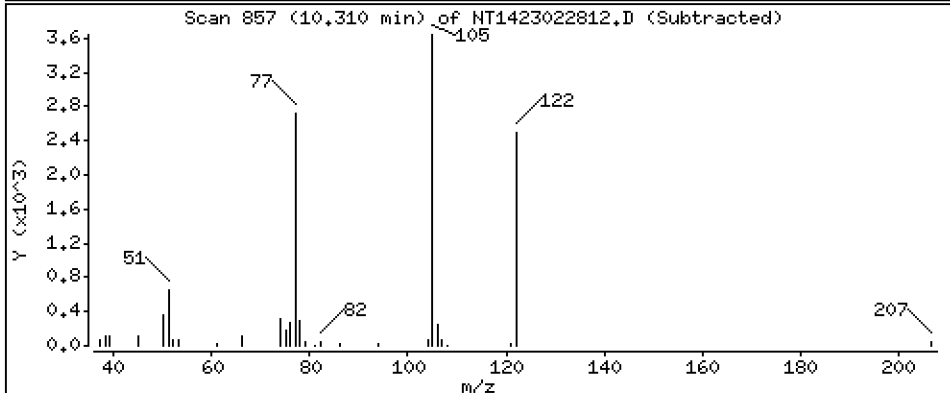
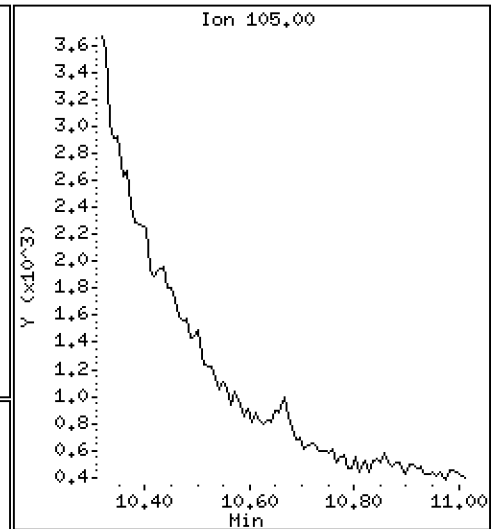
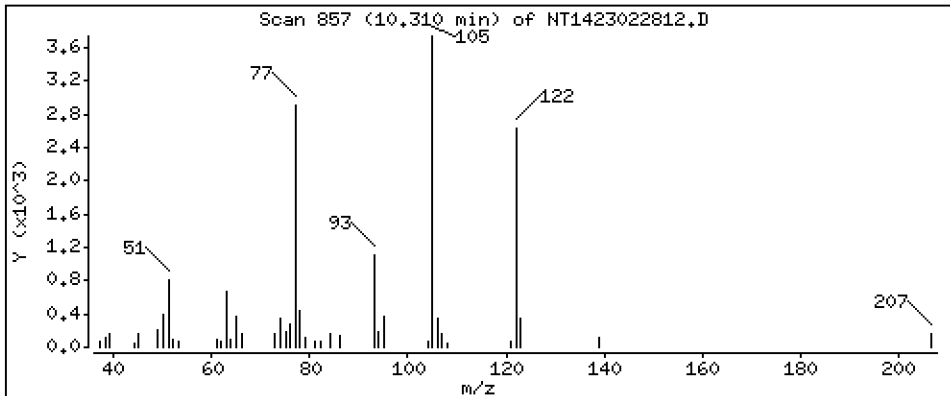
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 4.071 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

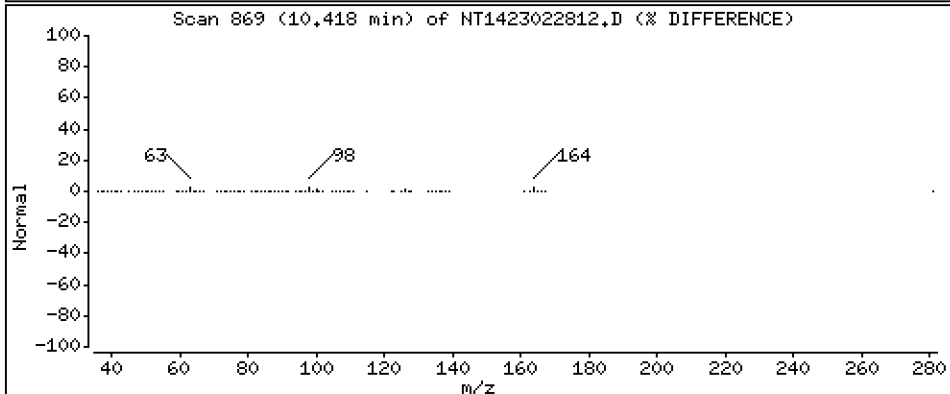
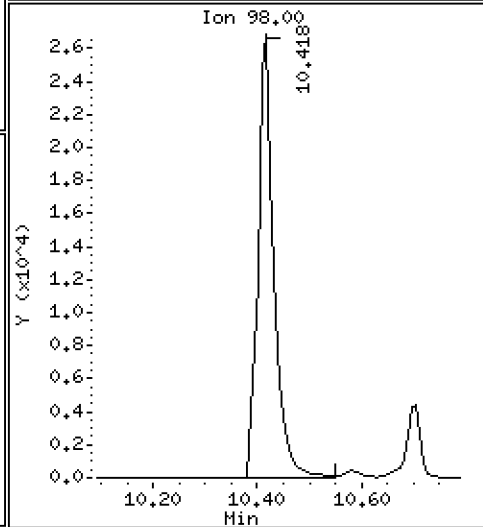
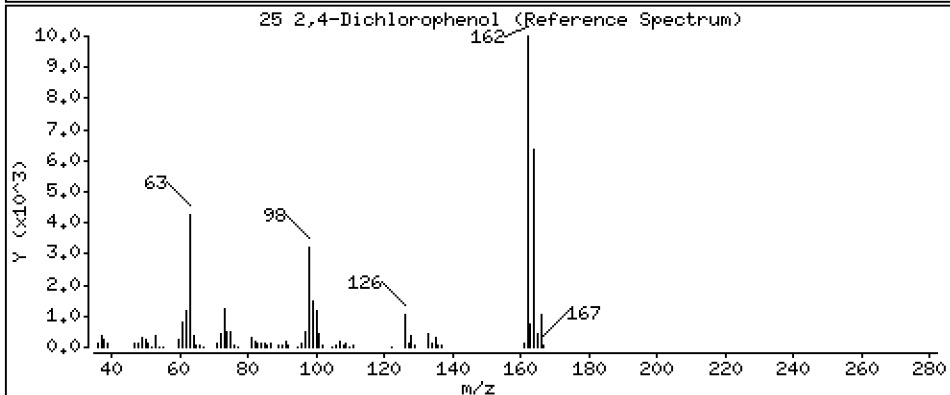
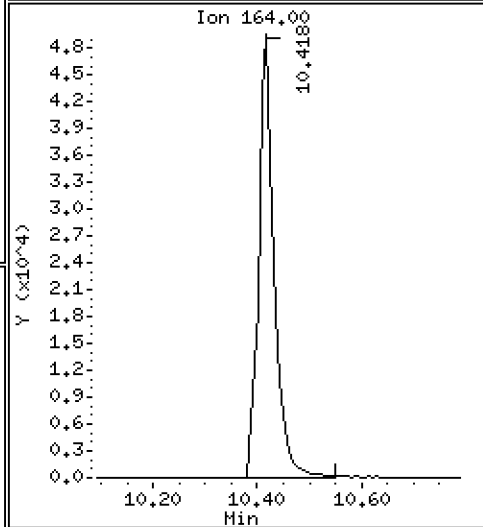
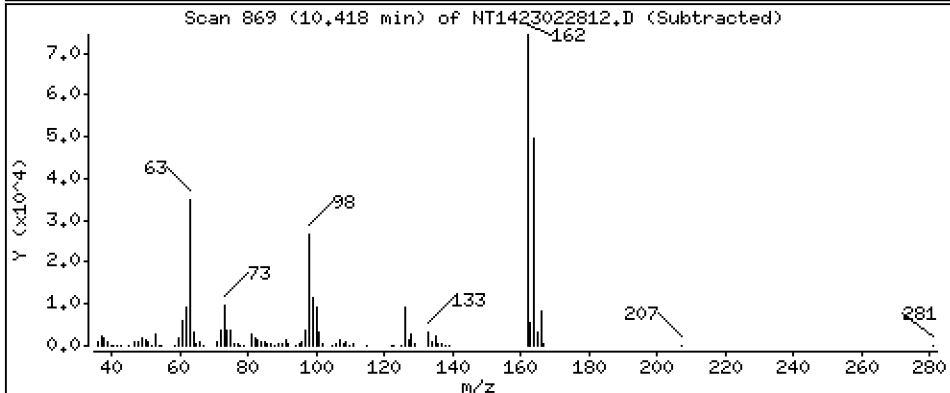
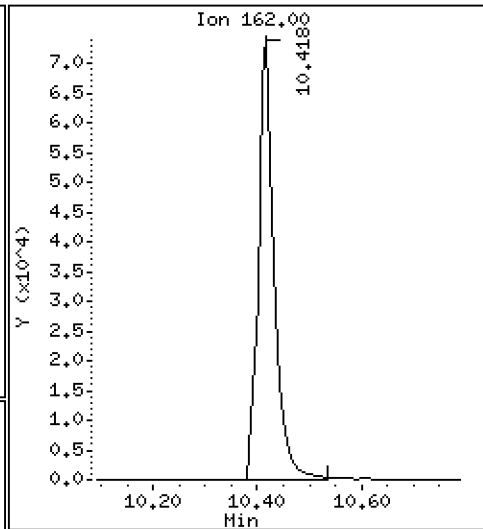
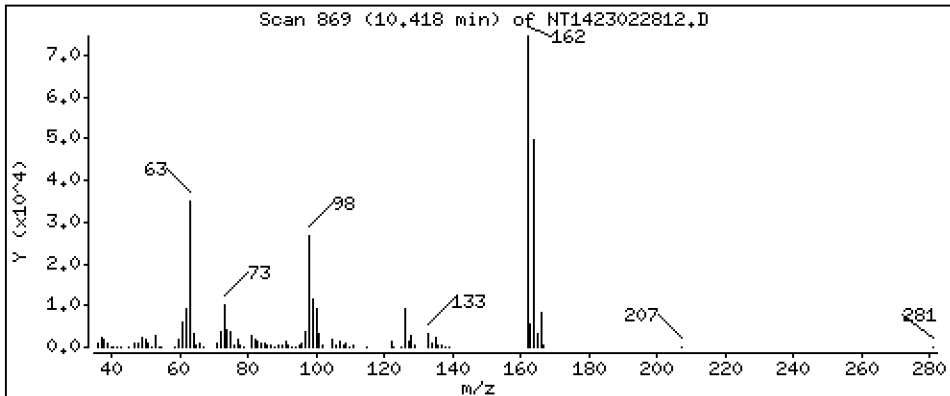
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 4,783 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

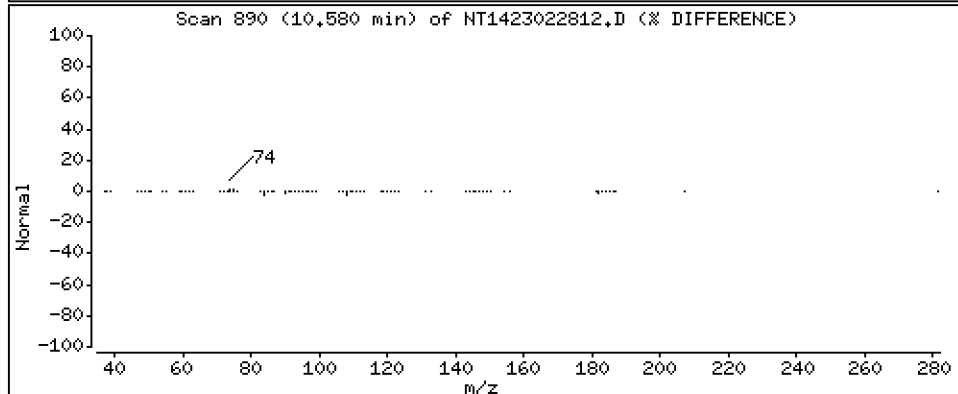
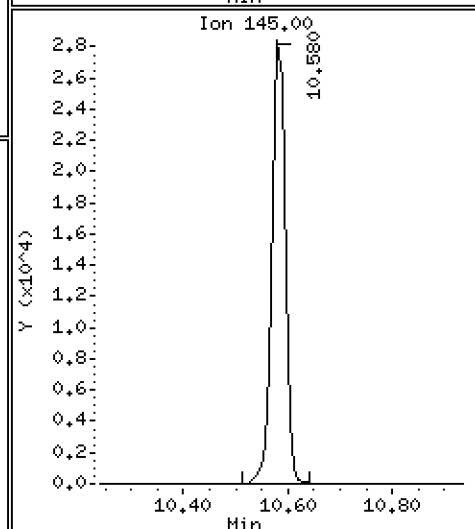
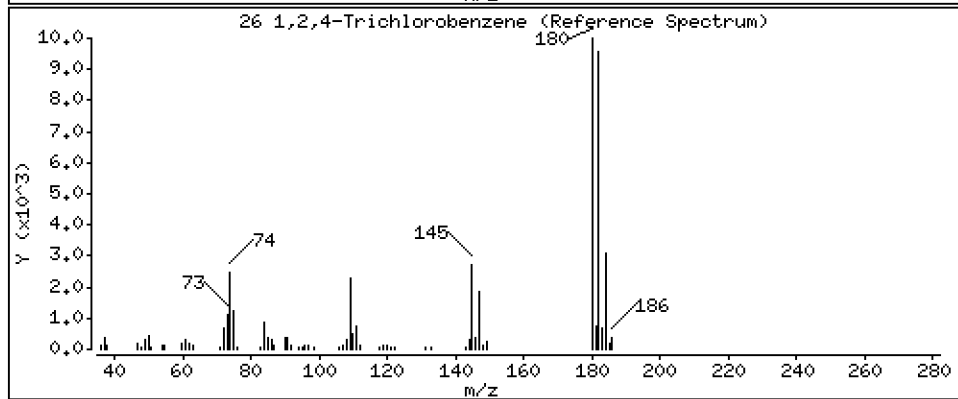
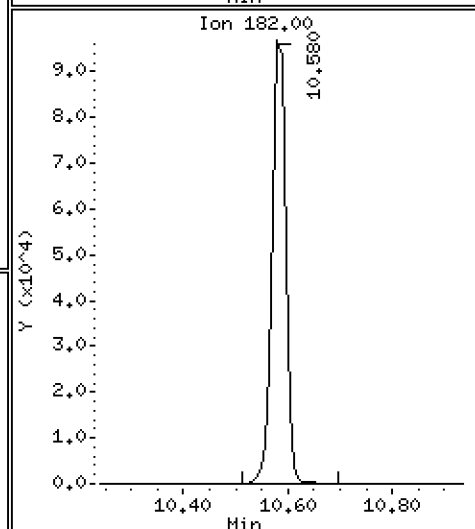
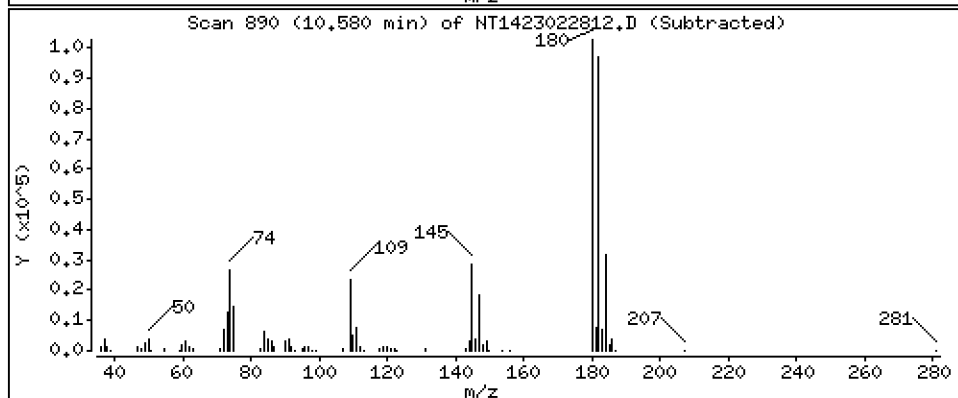
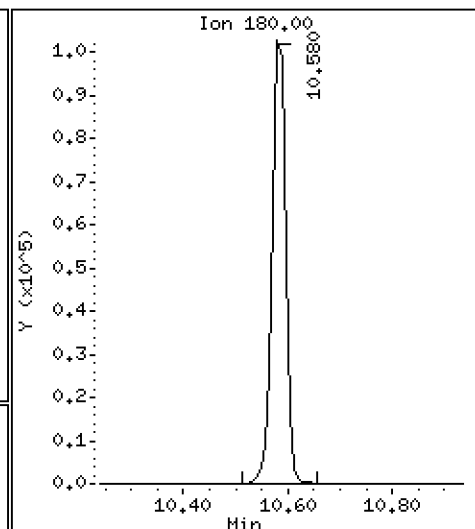
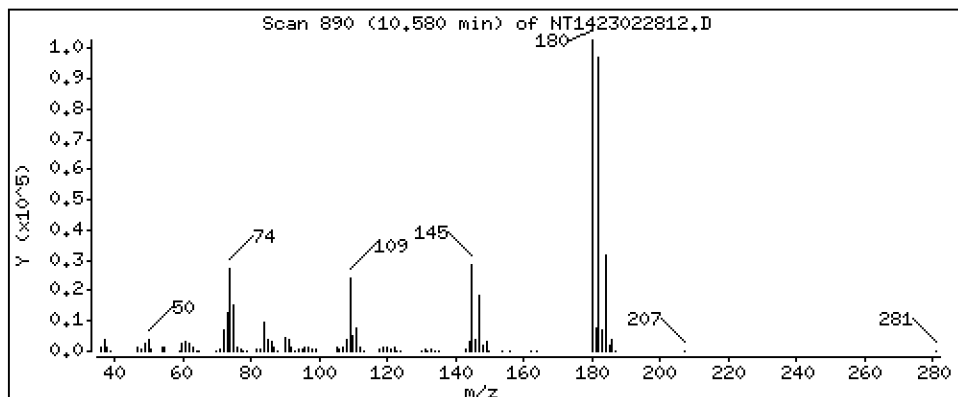
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,789 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

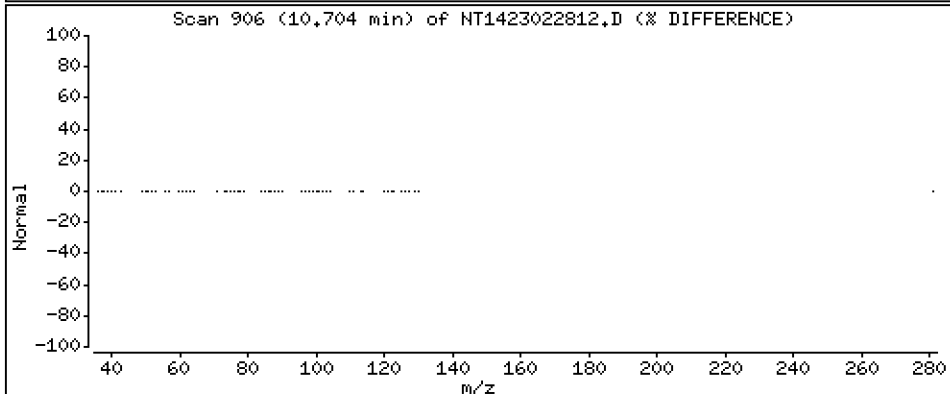
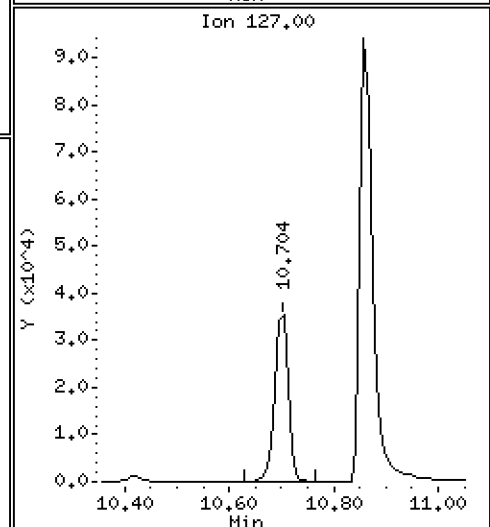
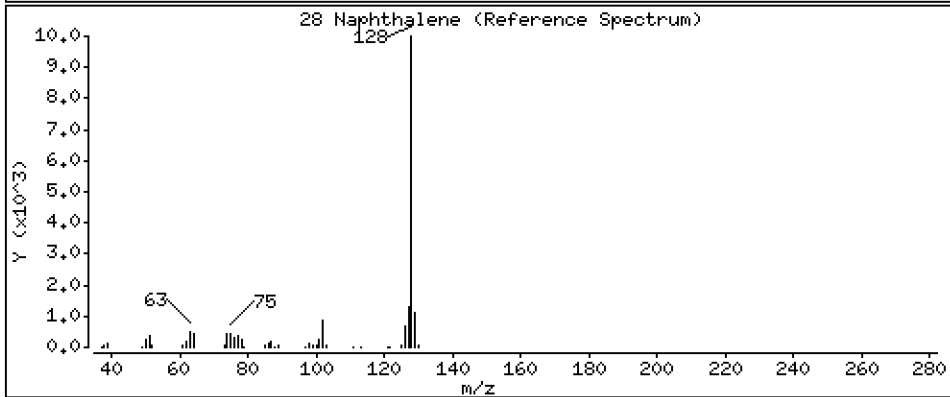
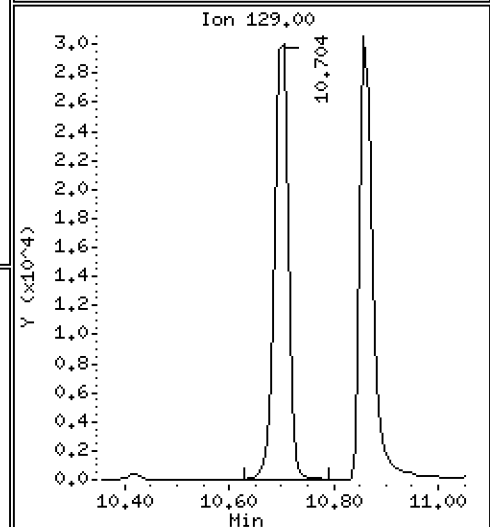
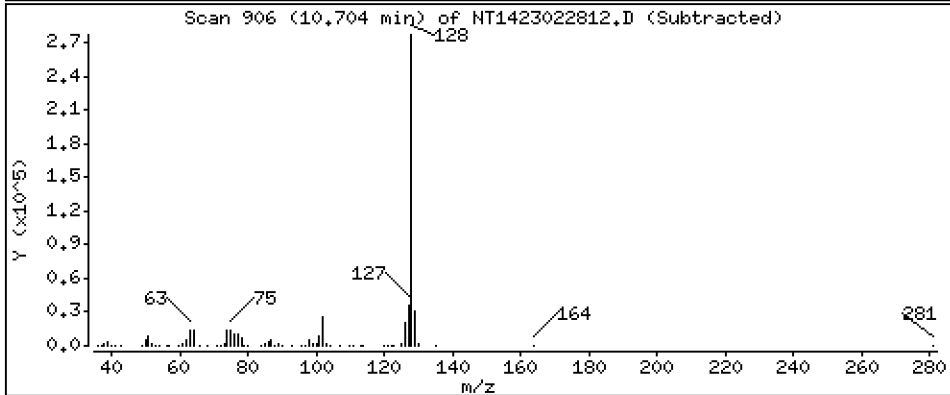
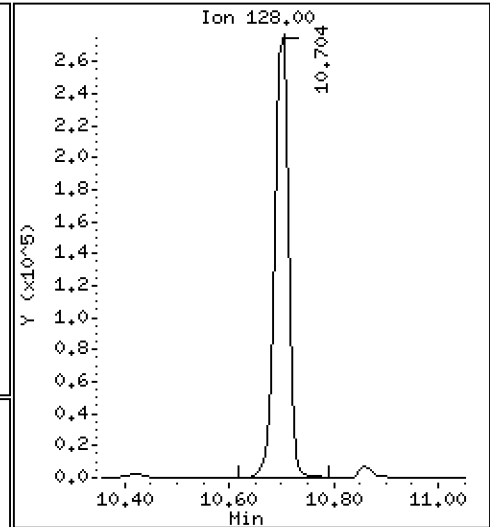
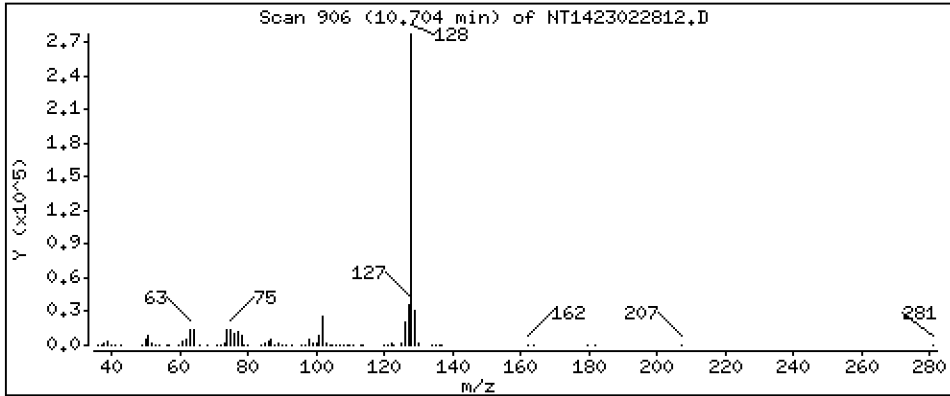
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,766 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

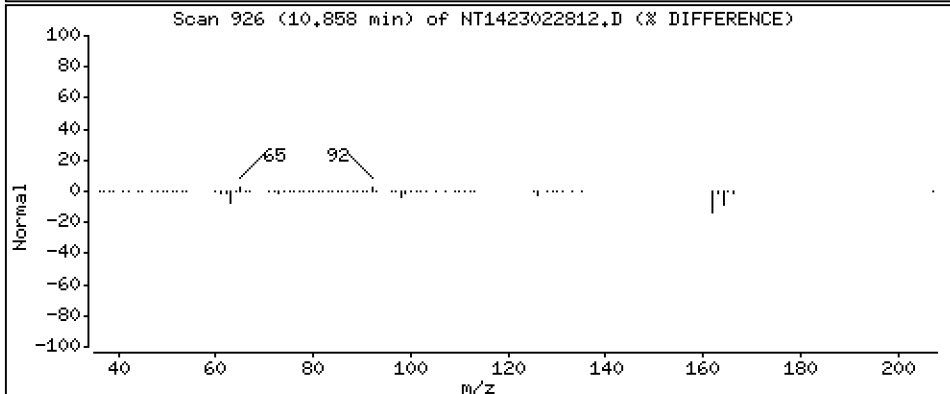
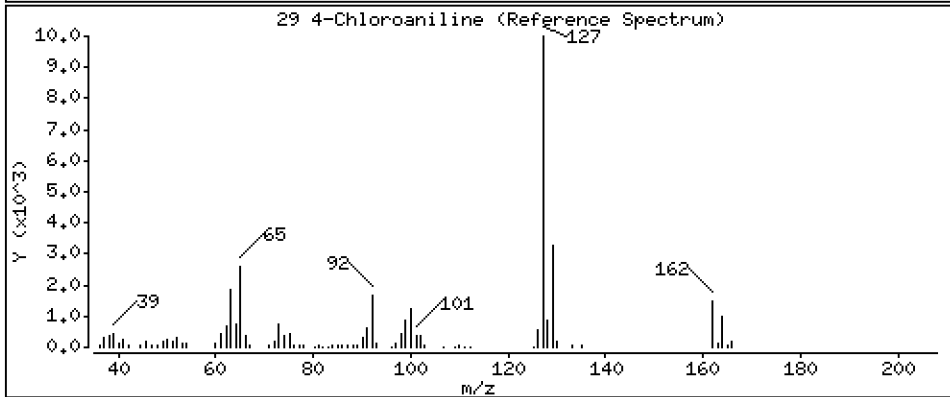
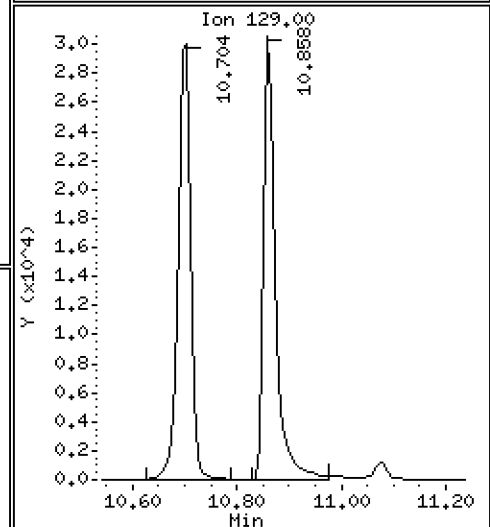
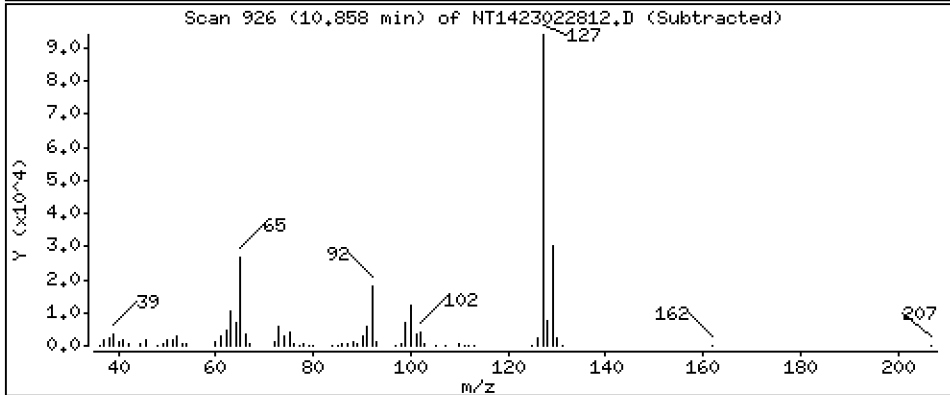
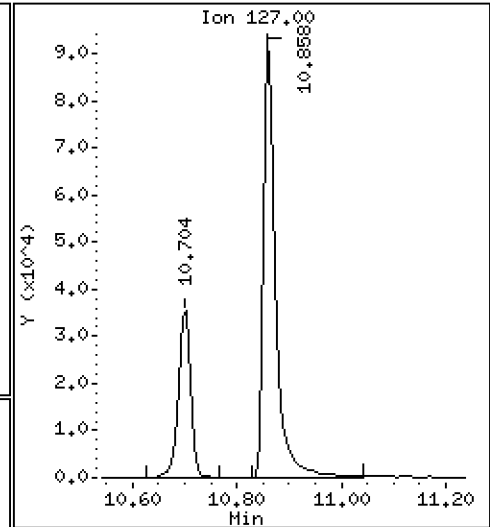
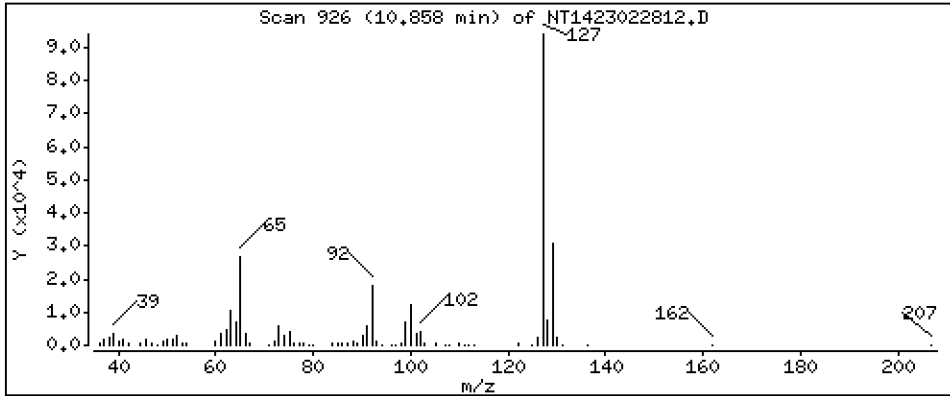
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 3,895 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

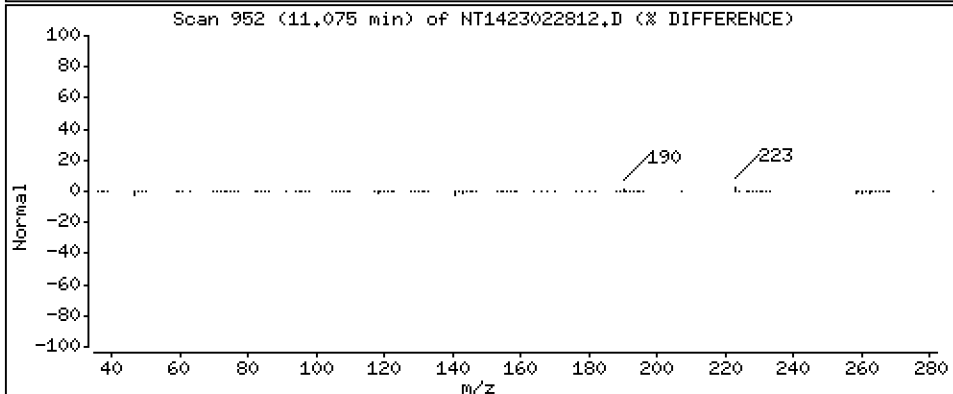
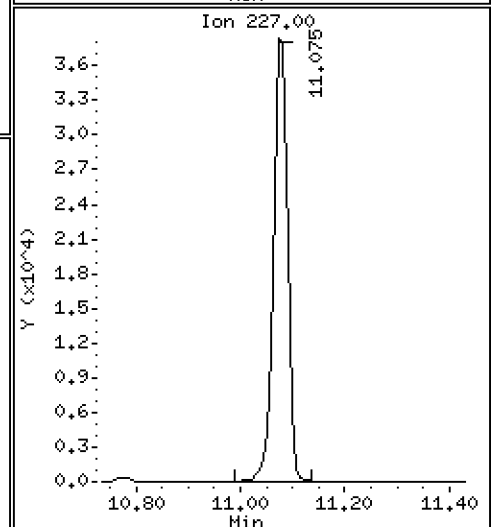
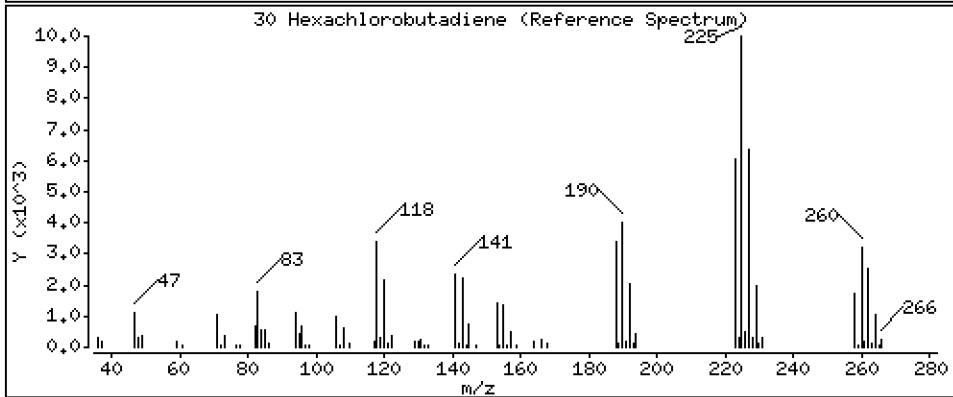
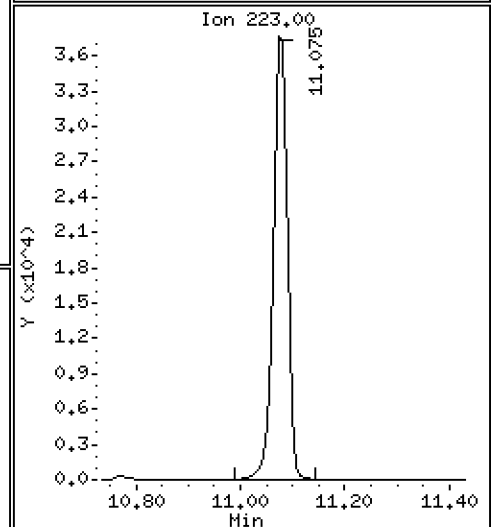
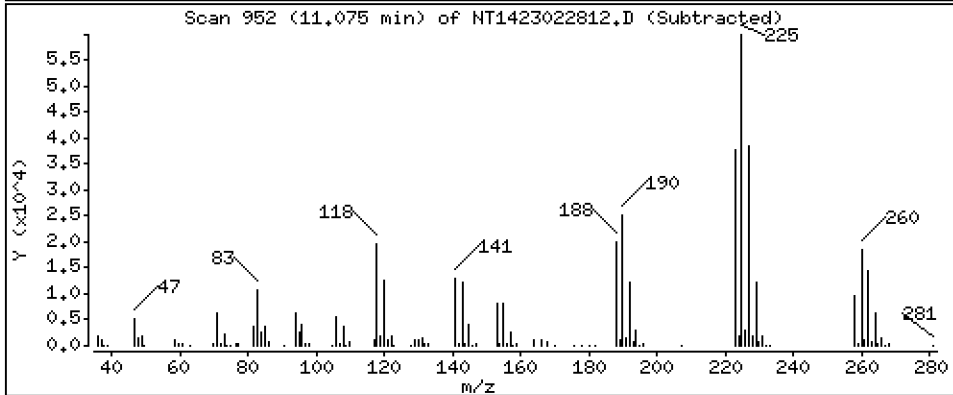
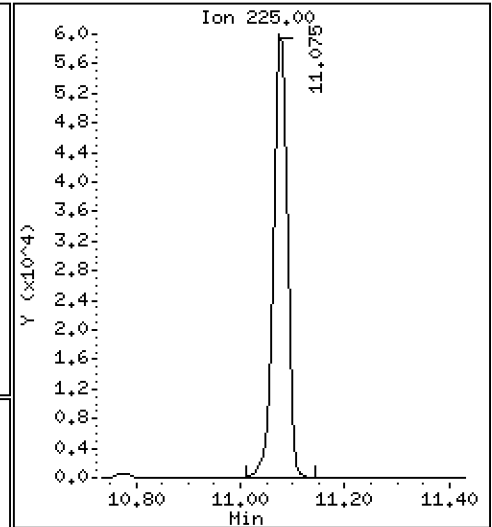
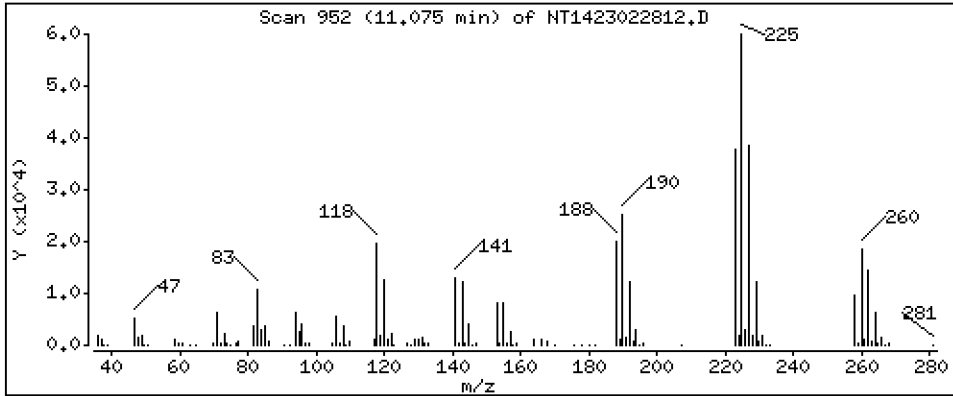
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,803 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

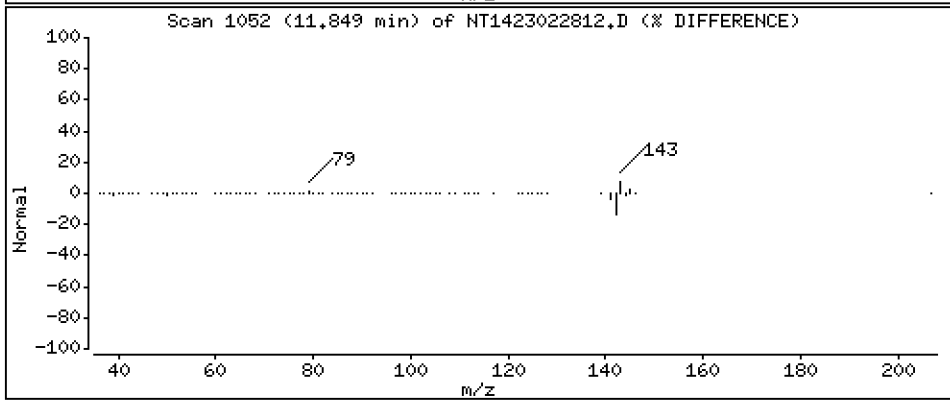
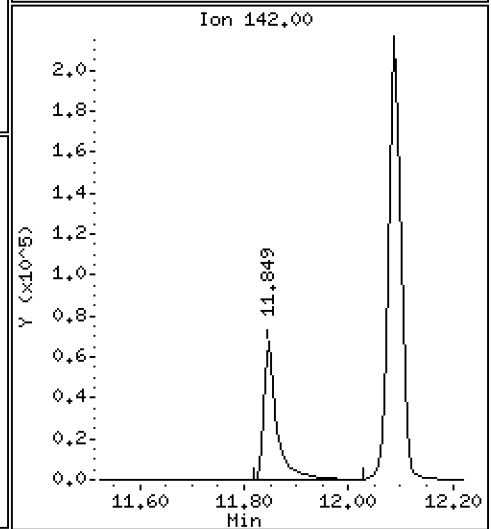
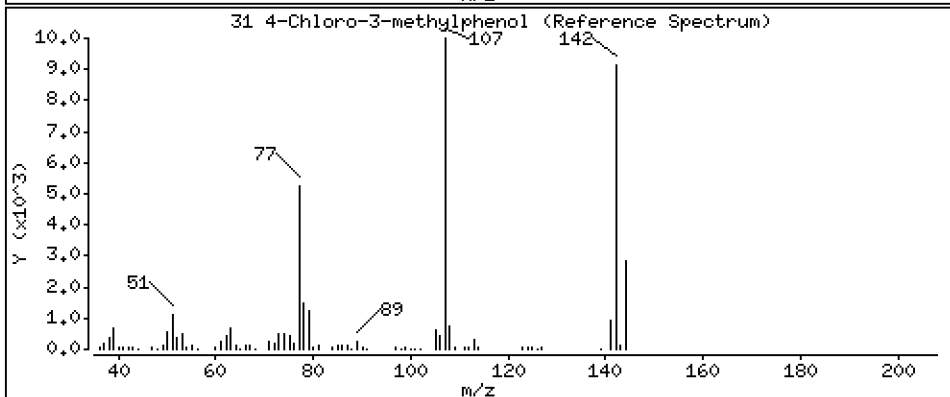
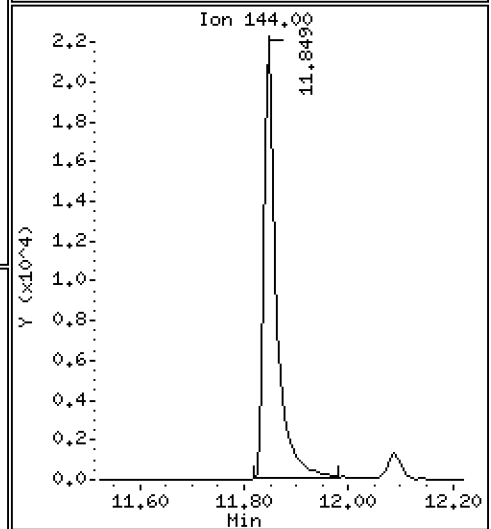
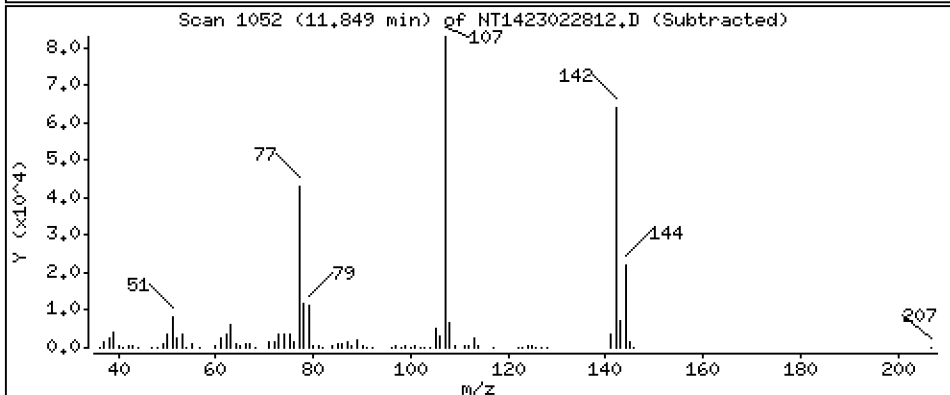
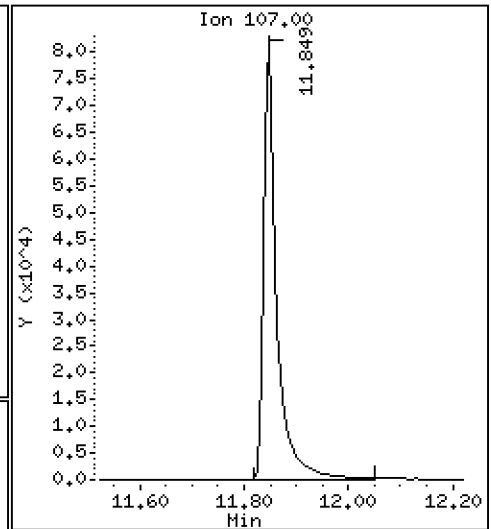
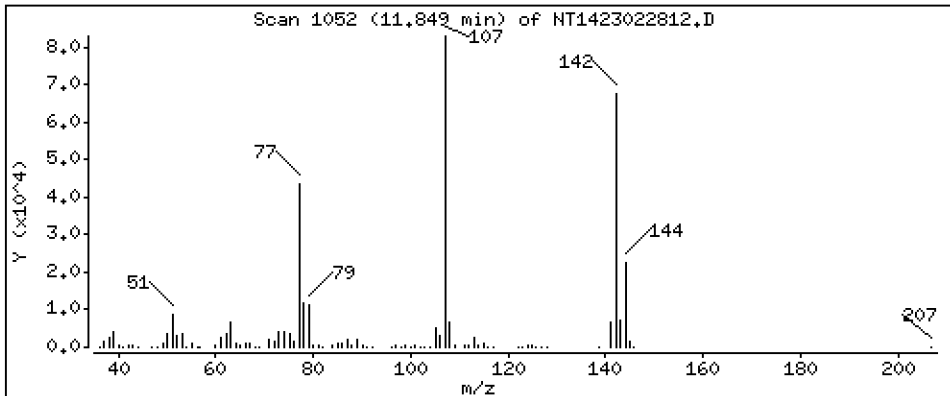
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 4.860 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

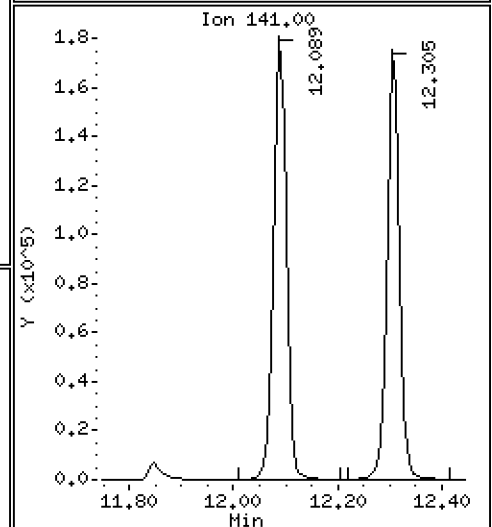
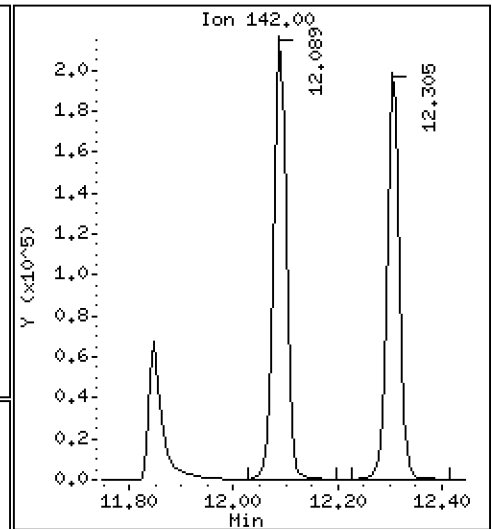
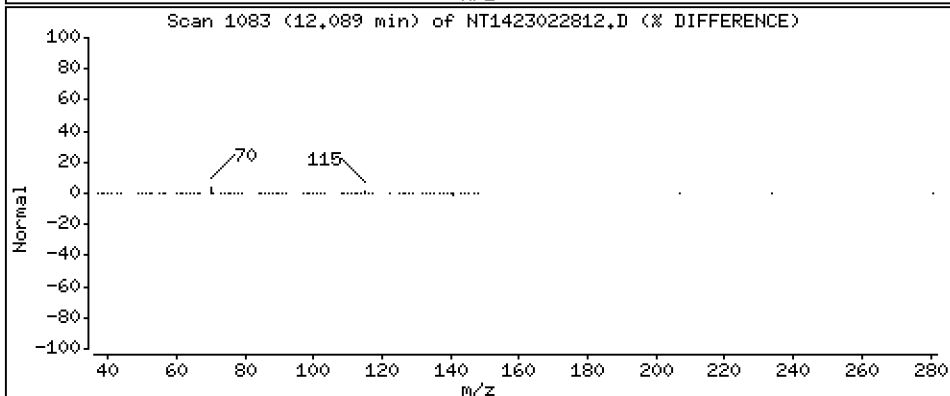
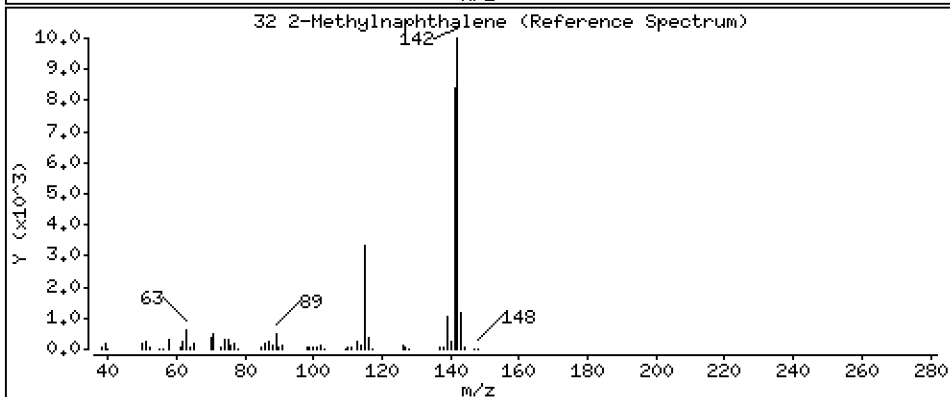
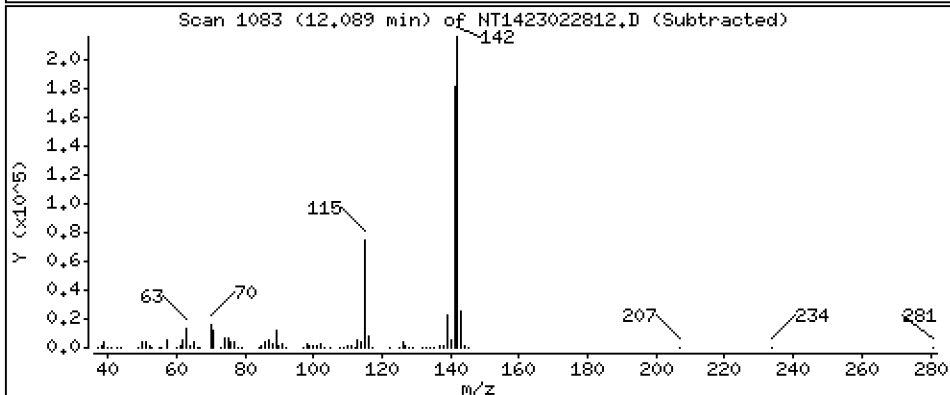
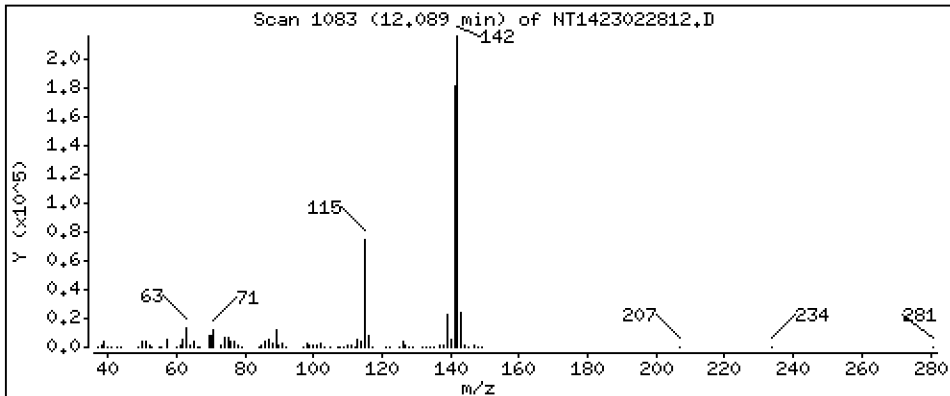
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,625 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

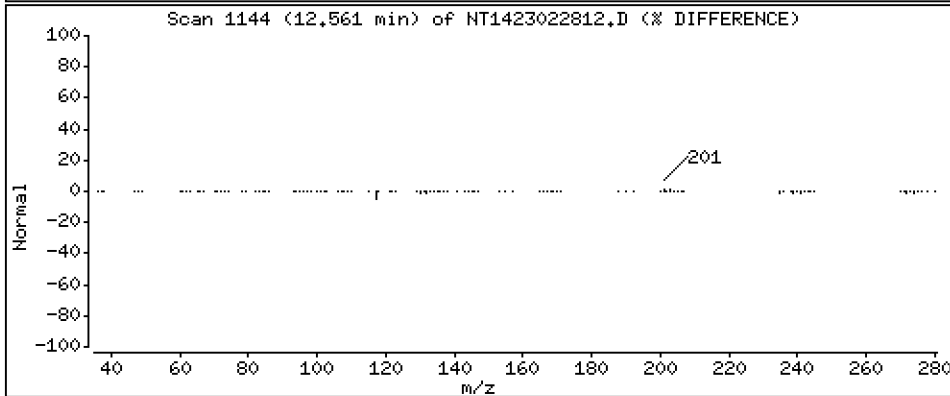
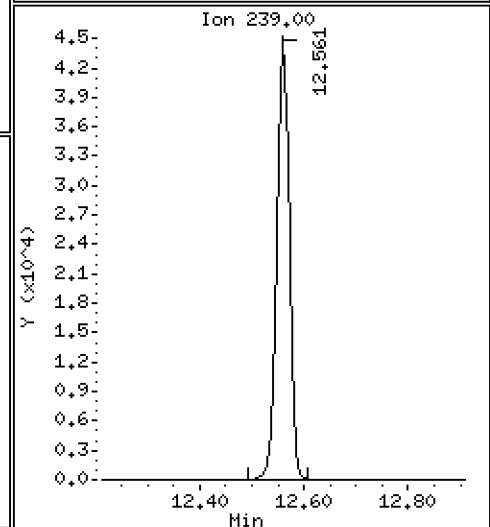
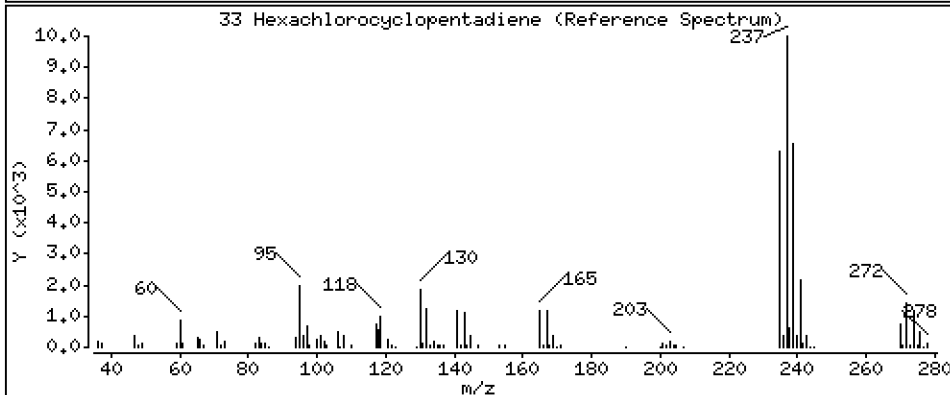
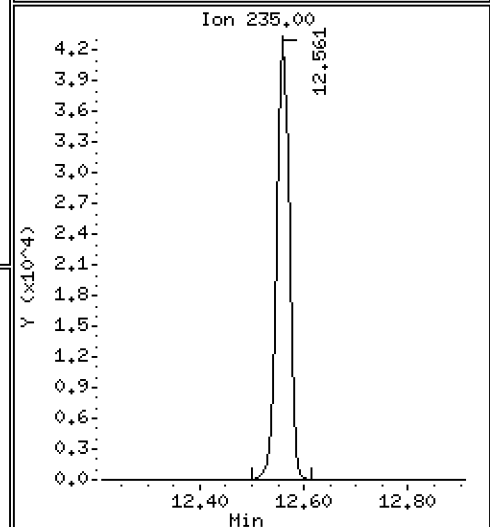
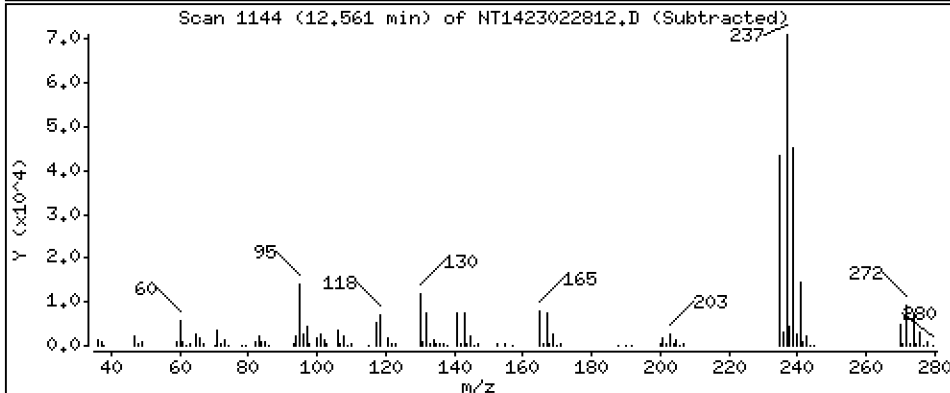
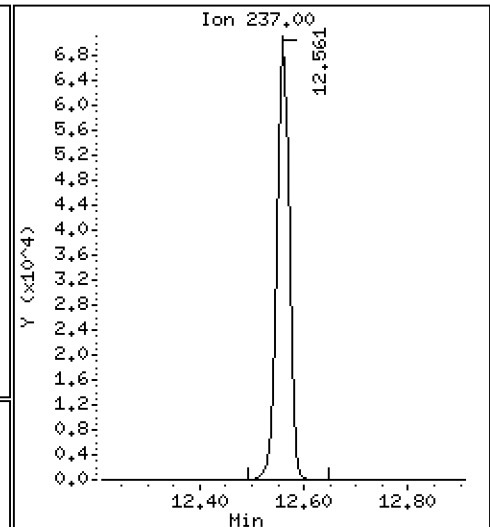
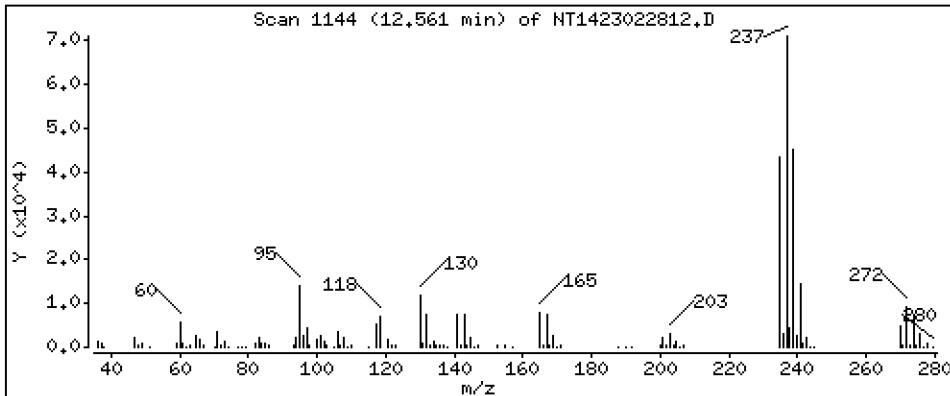
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 4,533 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

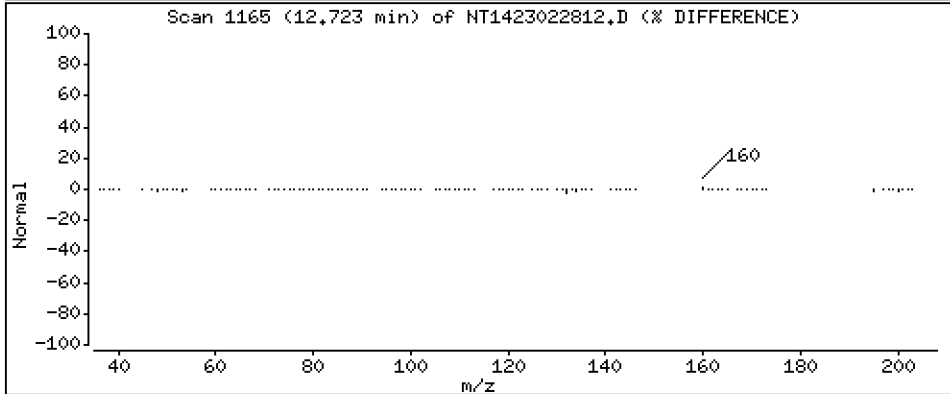
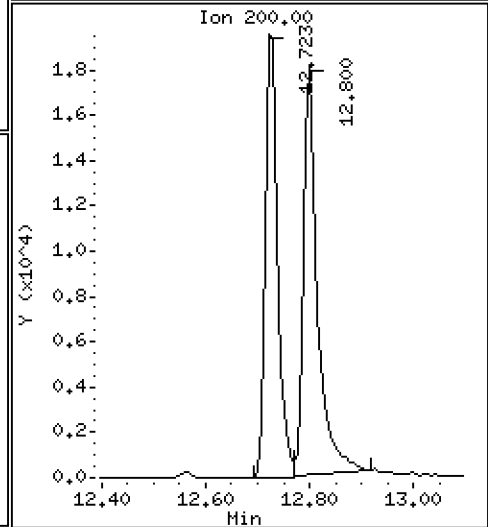
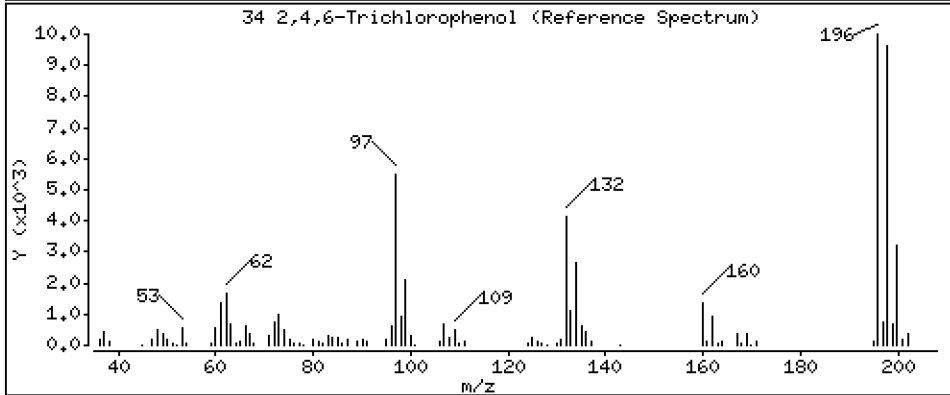
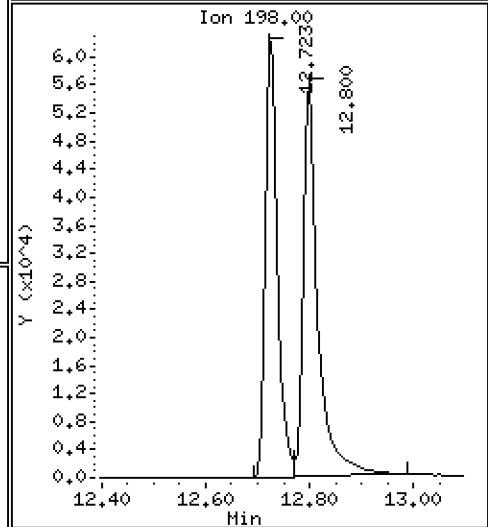
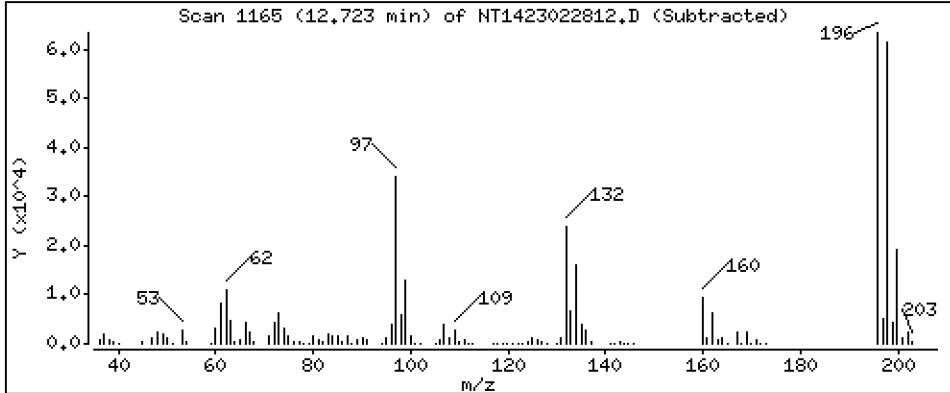
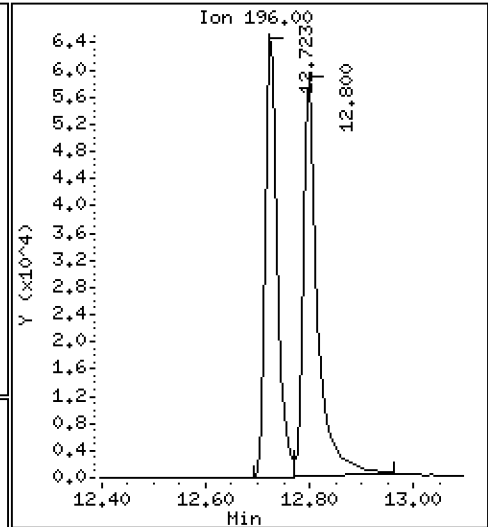
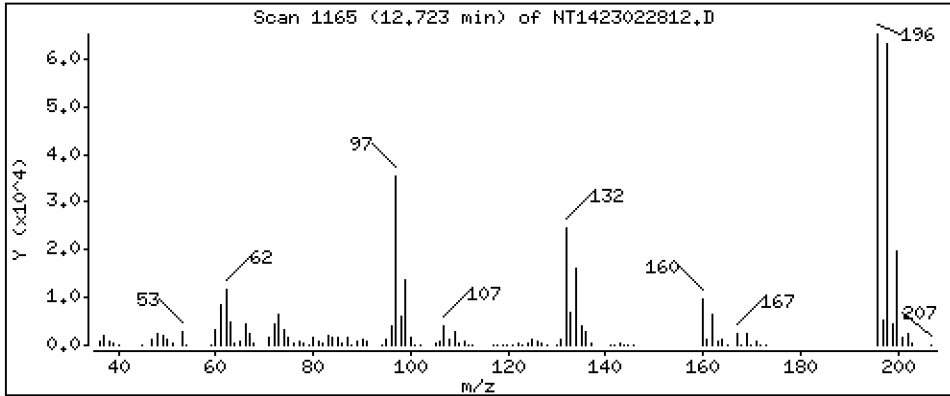
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 4,788 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

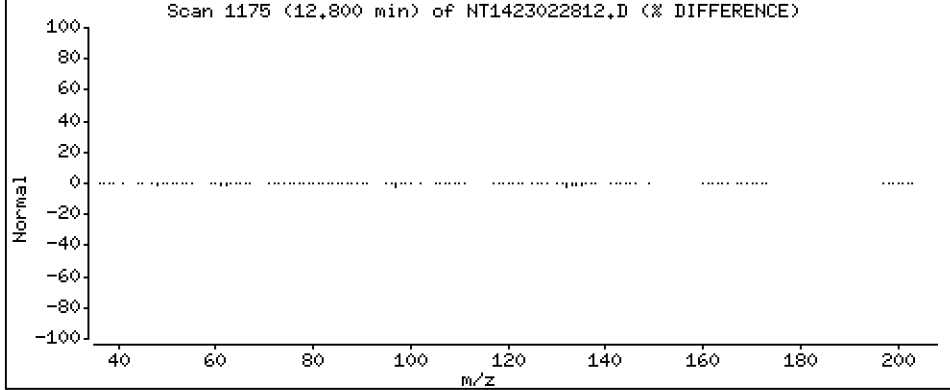
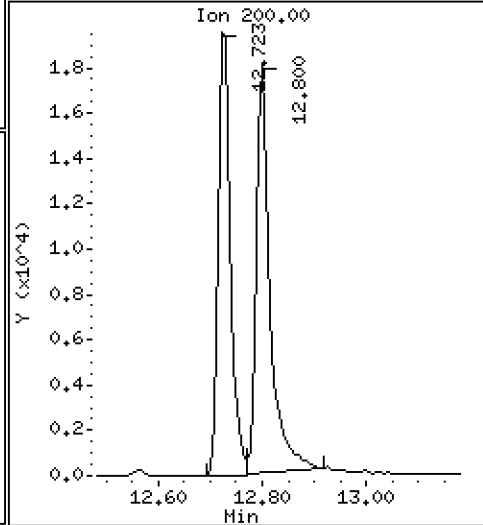
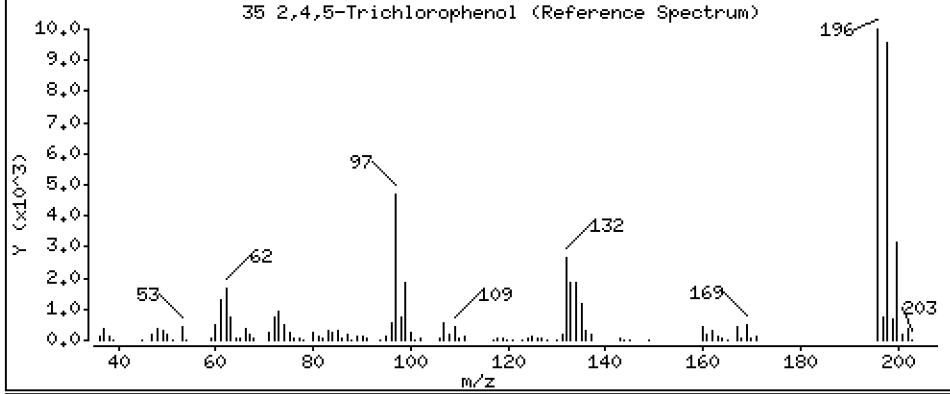
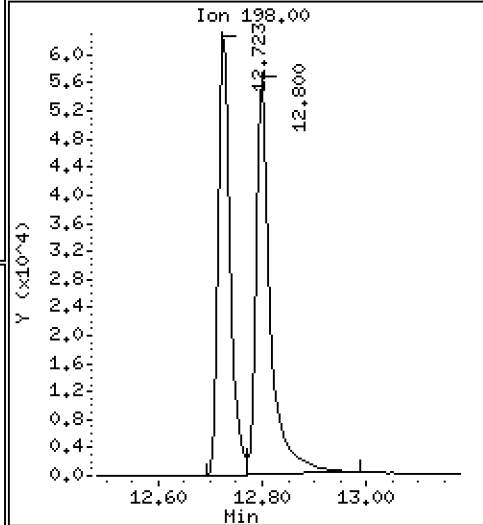
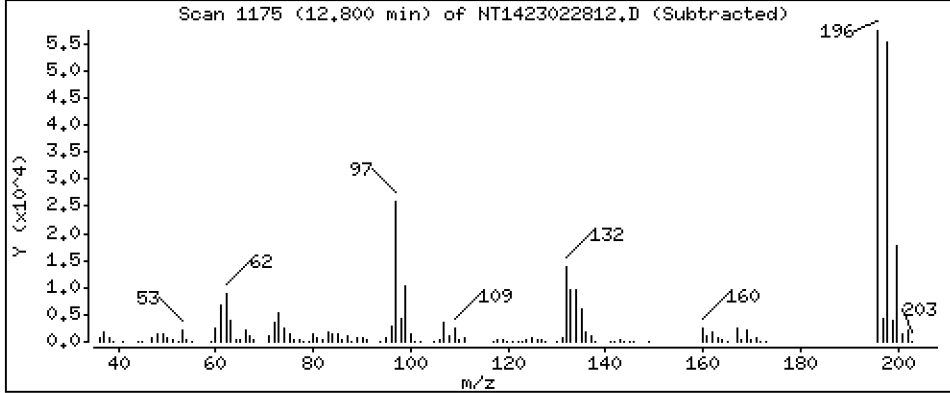
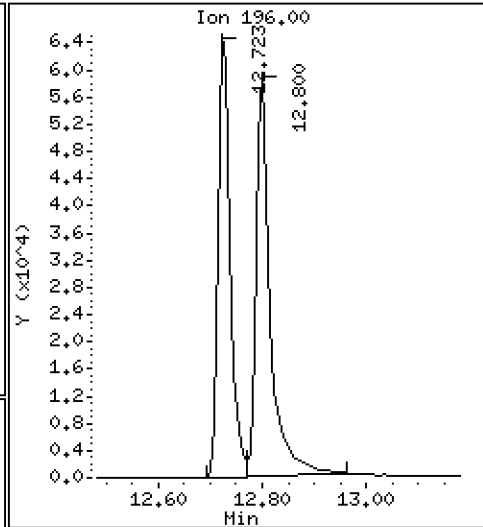
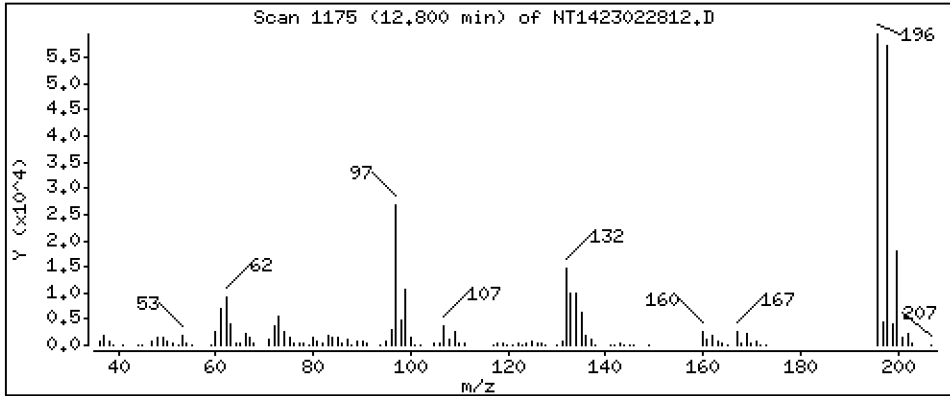
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

35 2,4,5-Trichlorophenol

Concentration: 4.669 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

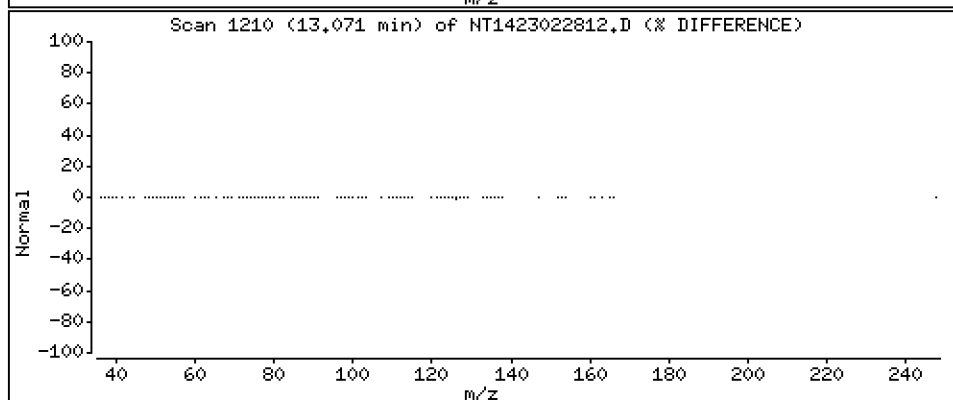
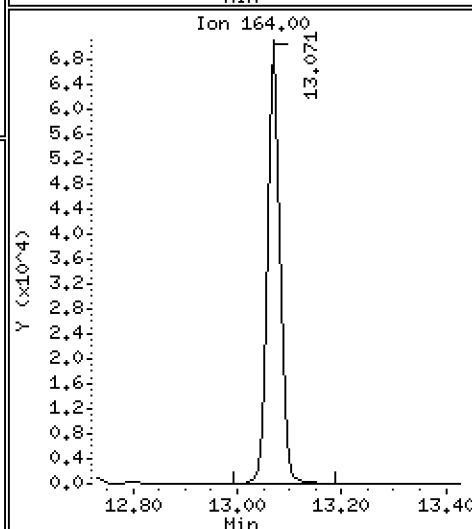
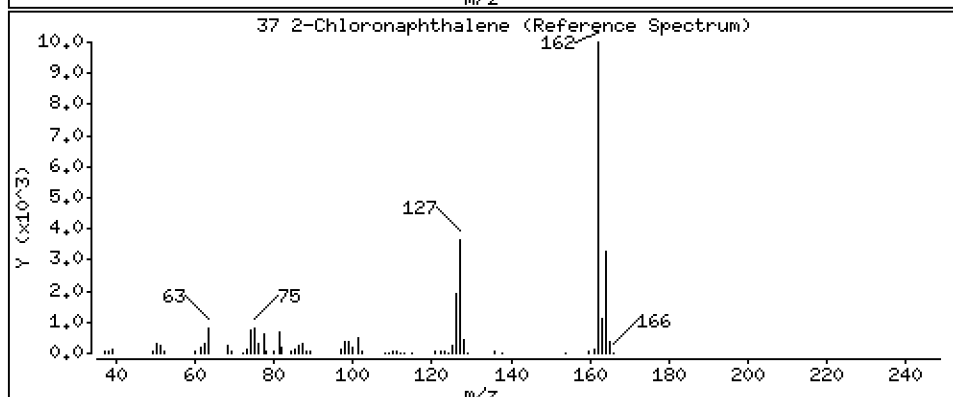
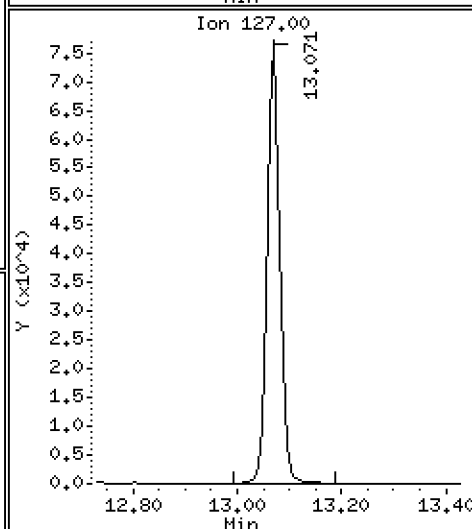
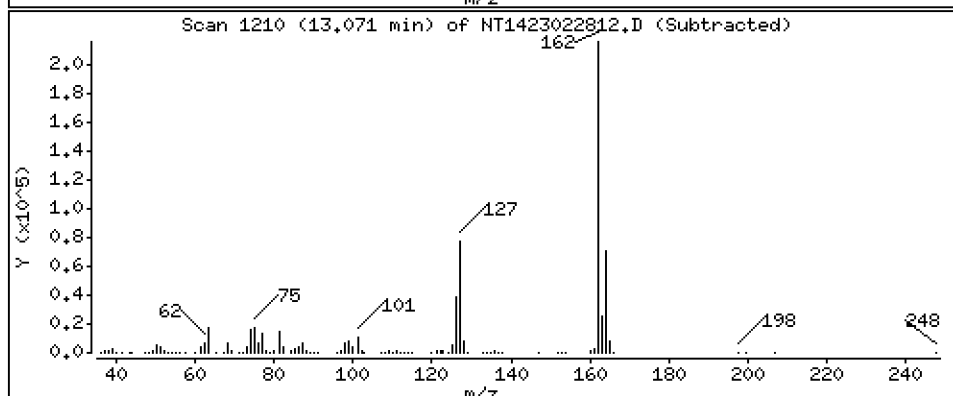
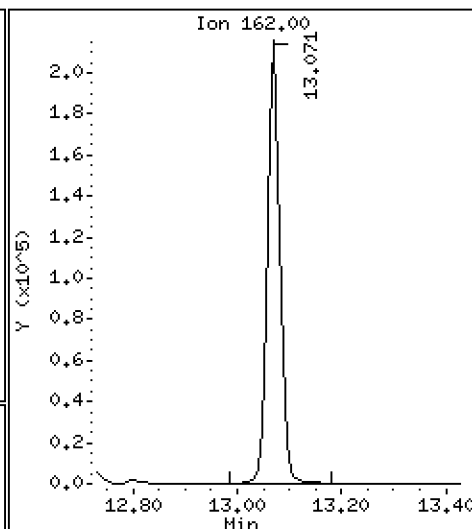
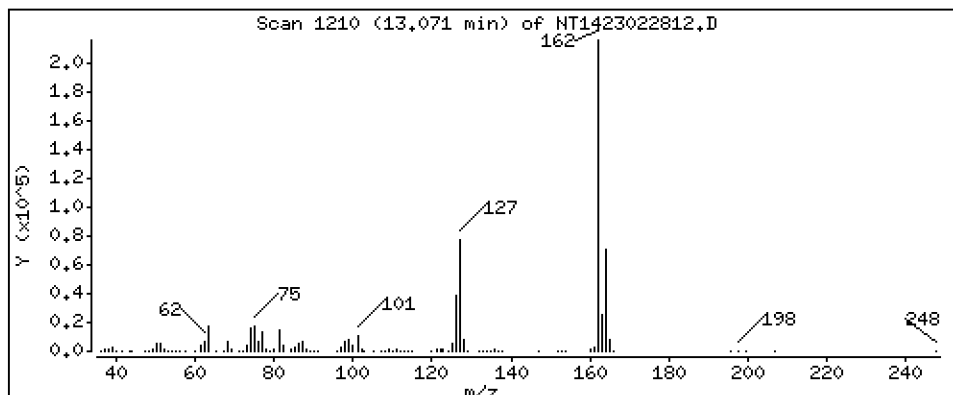
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,911 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

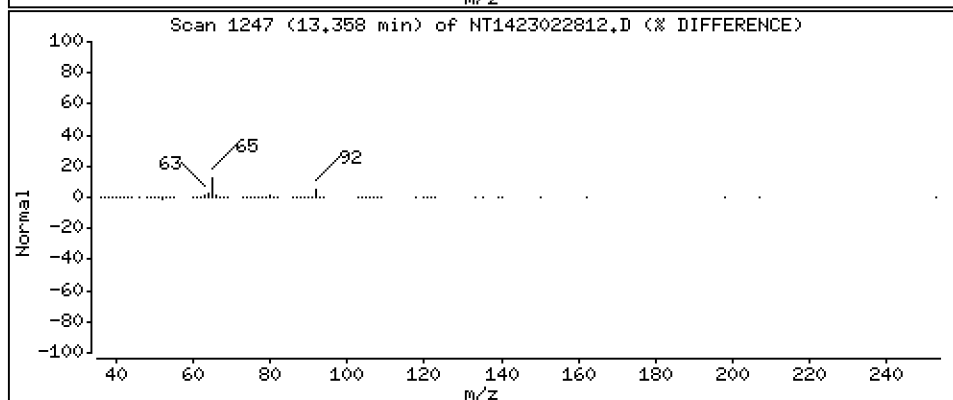
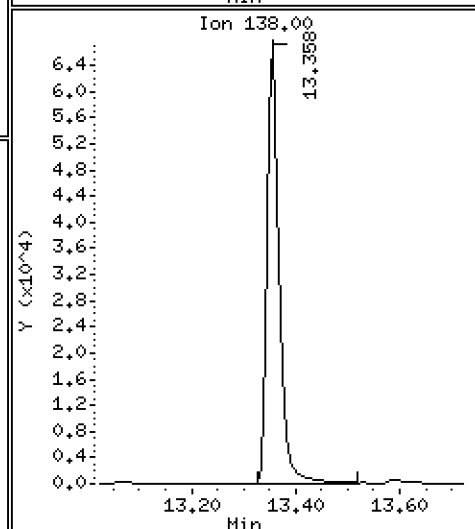
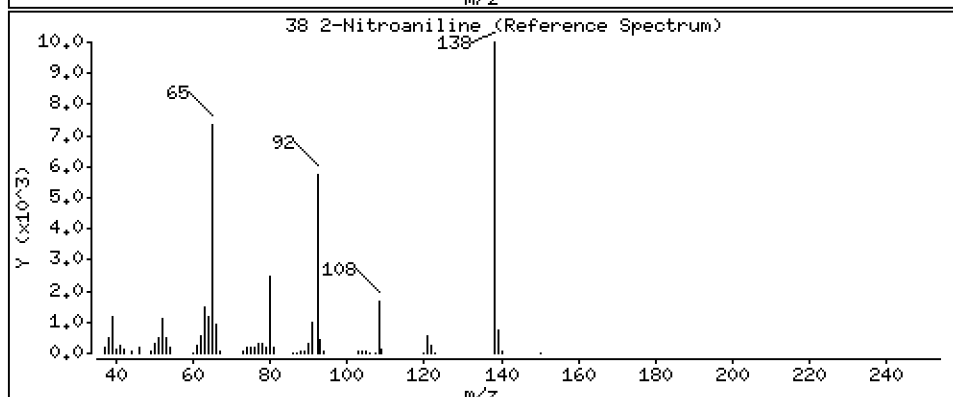
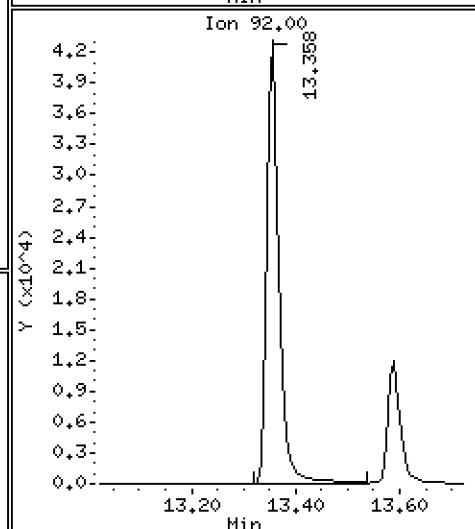
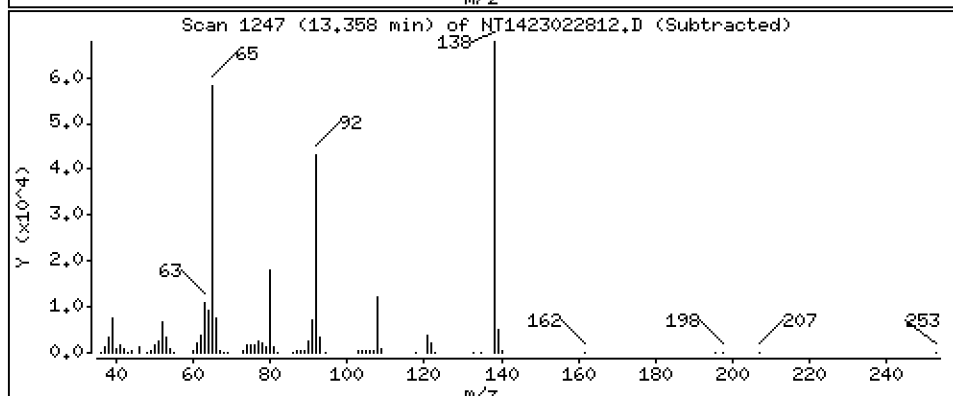
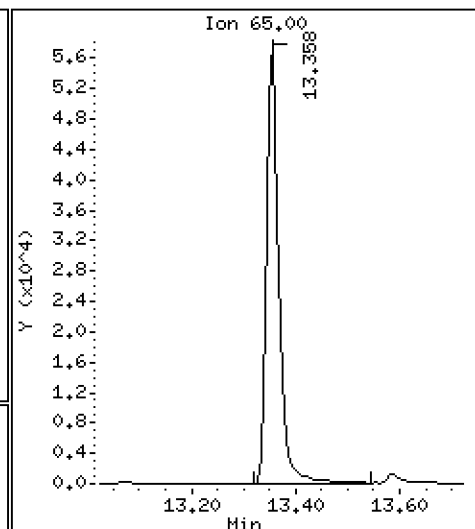
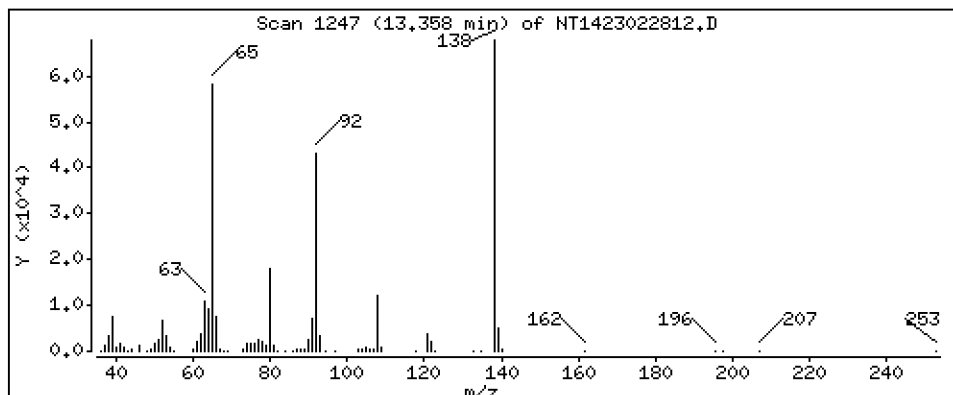
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 4,980 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

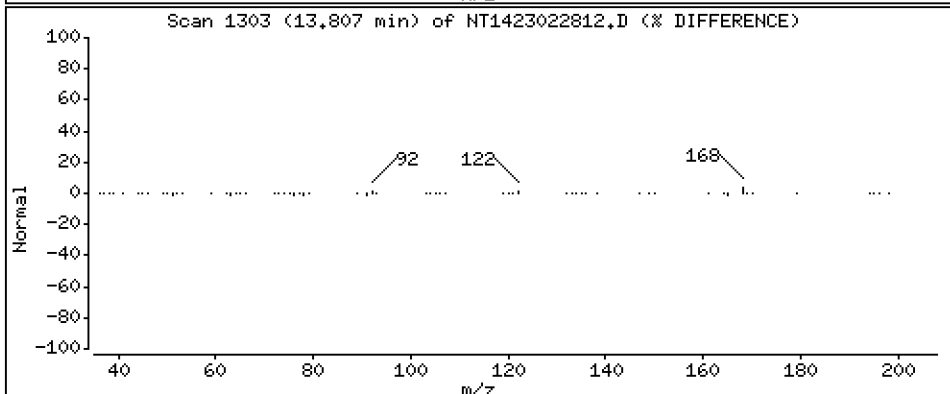
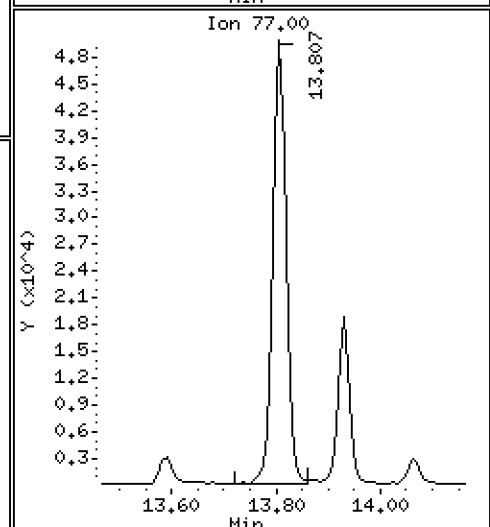
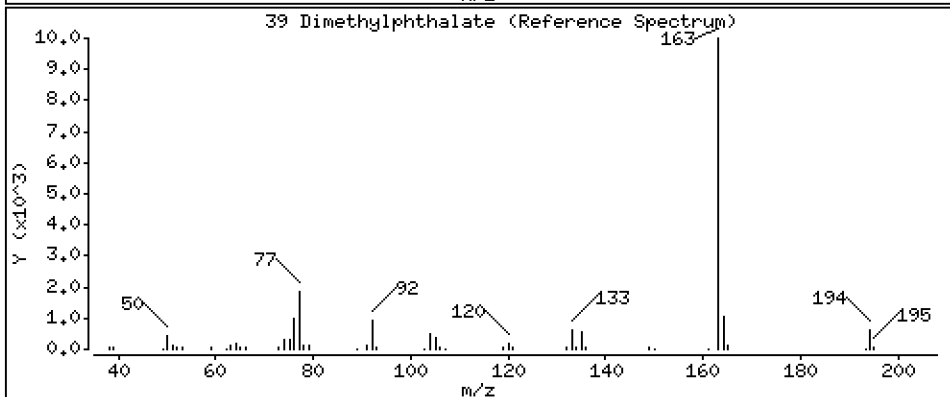
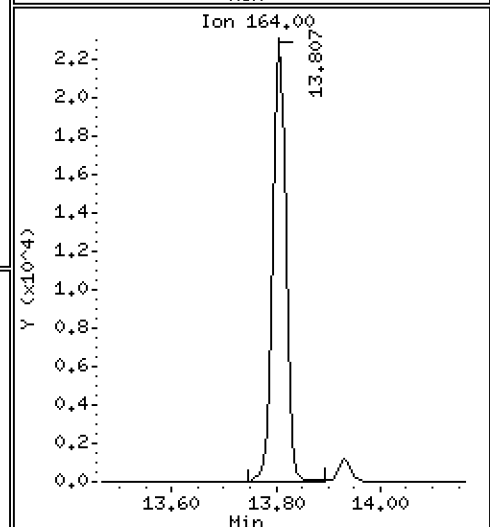
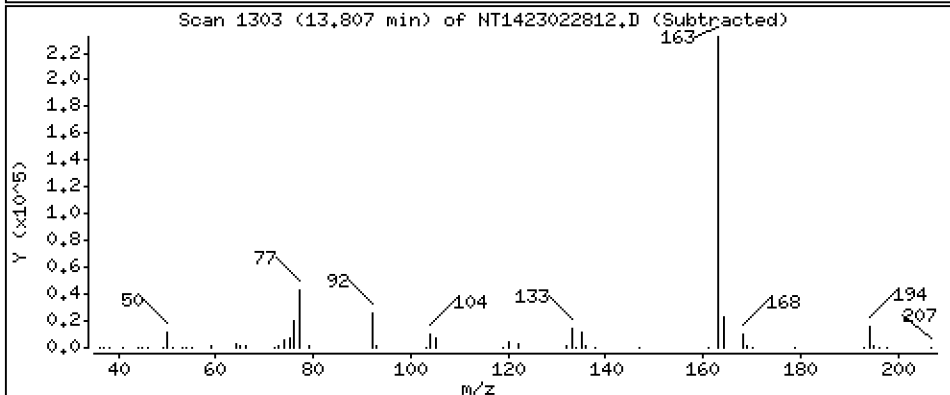
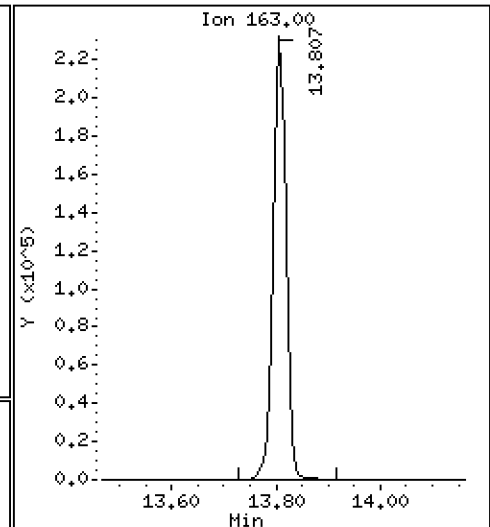
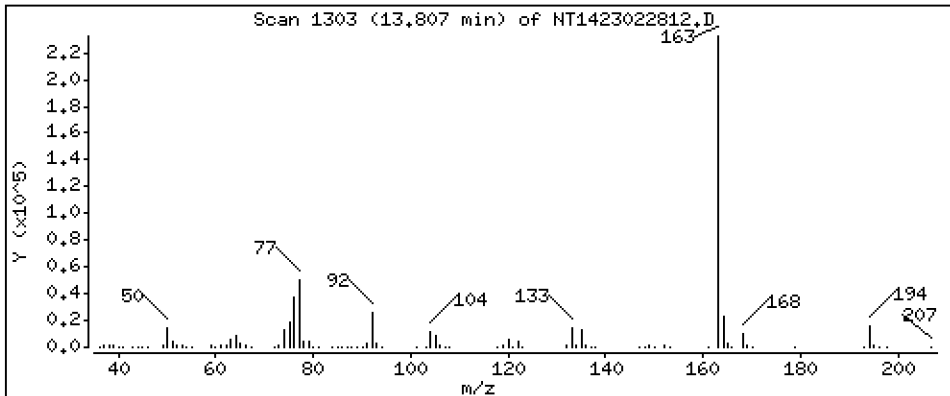
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,206 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

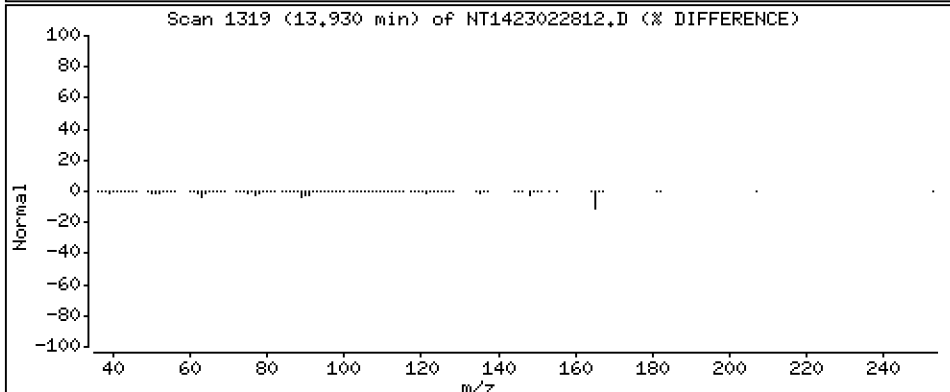
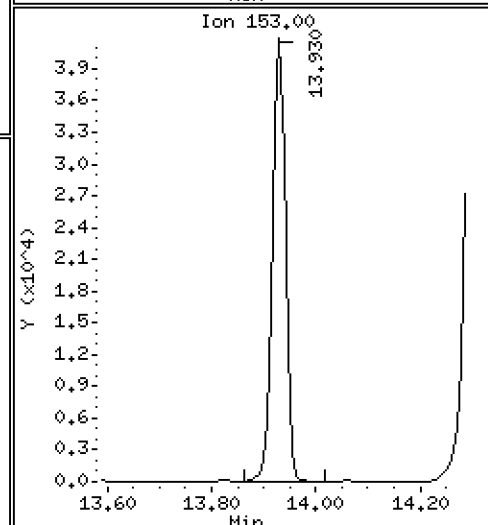
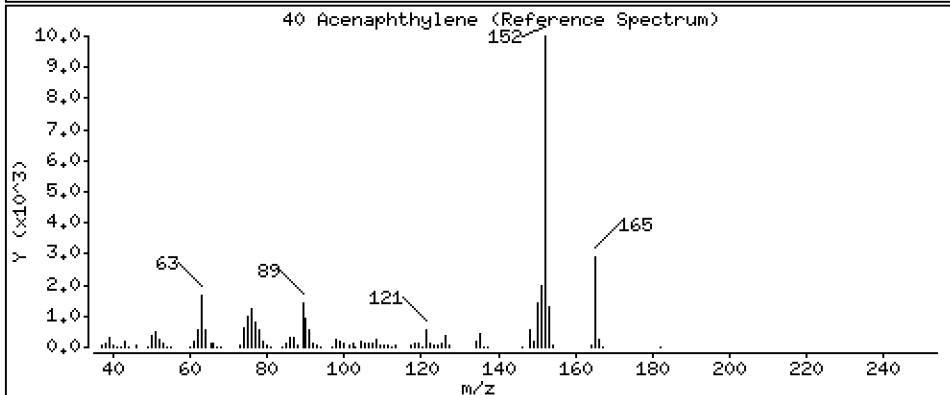
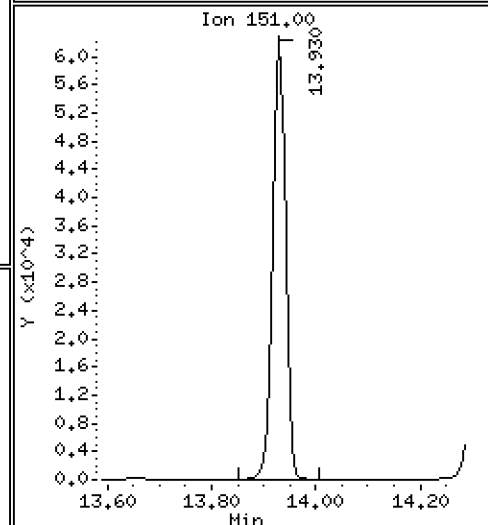
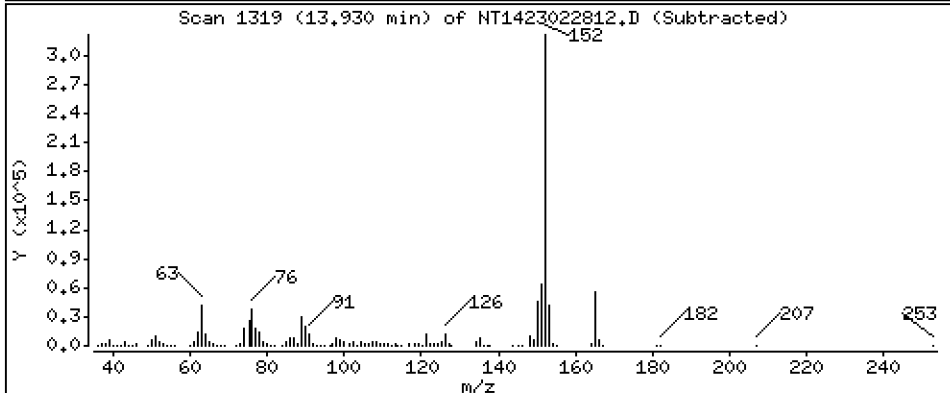
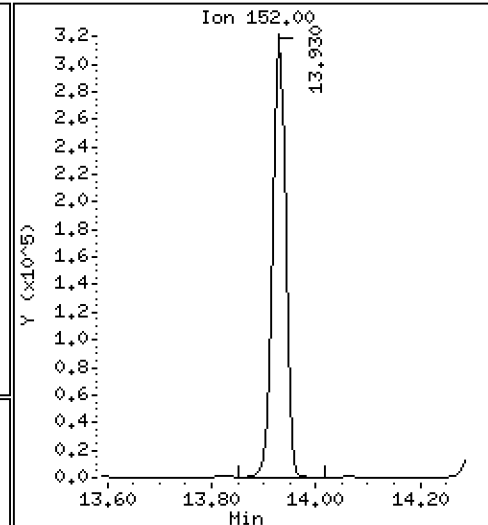
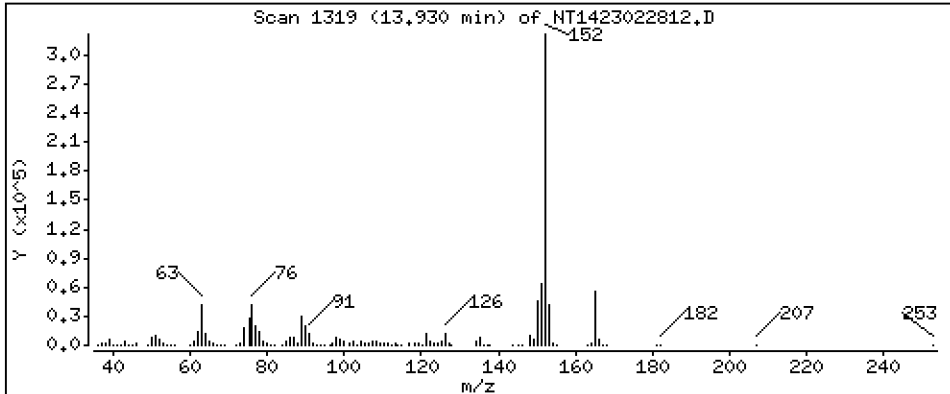
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,975 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

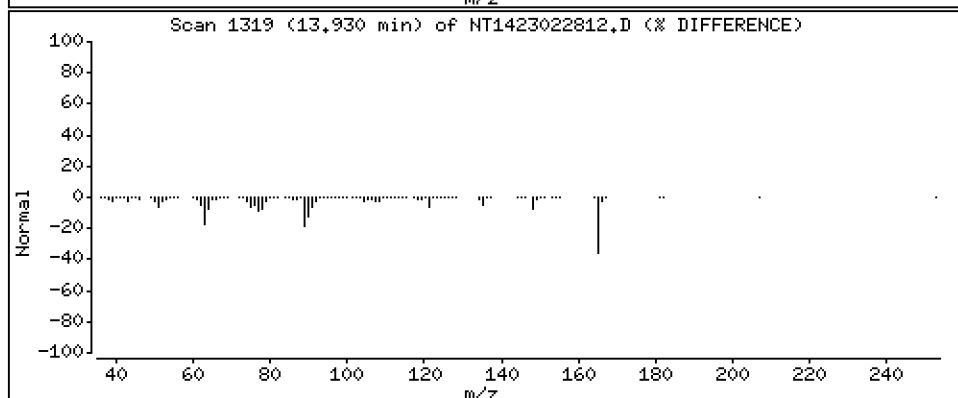
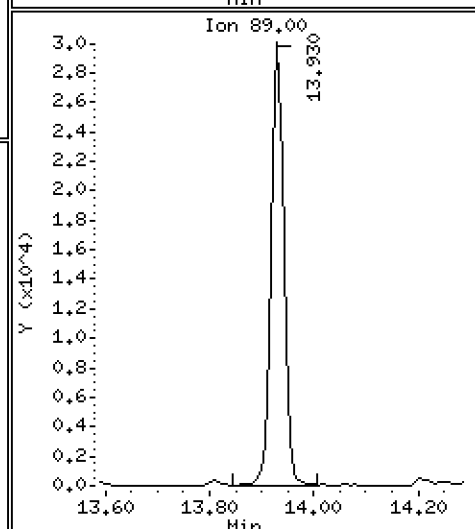
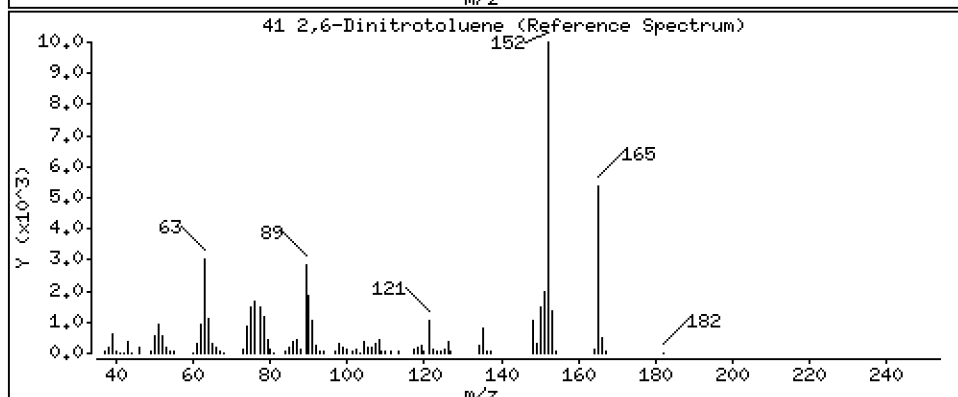
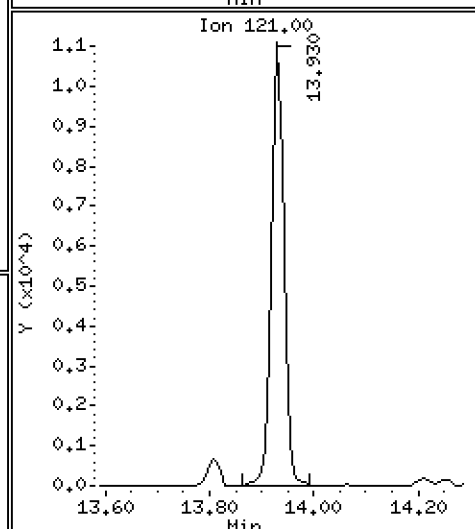
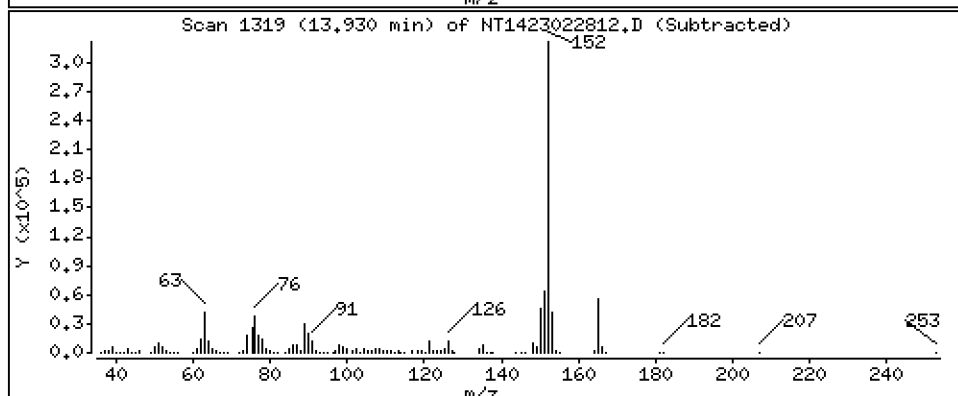
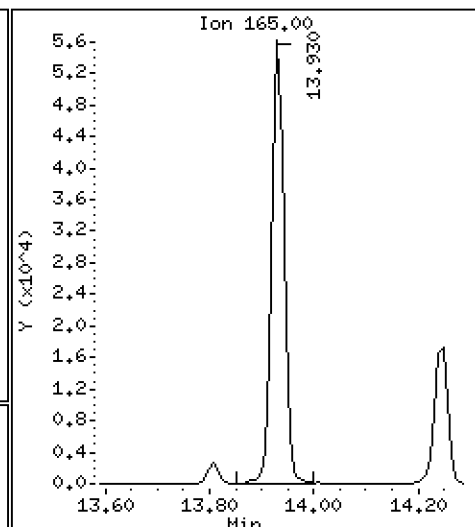
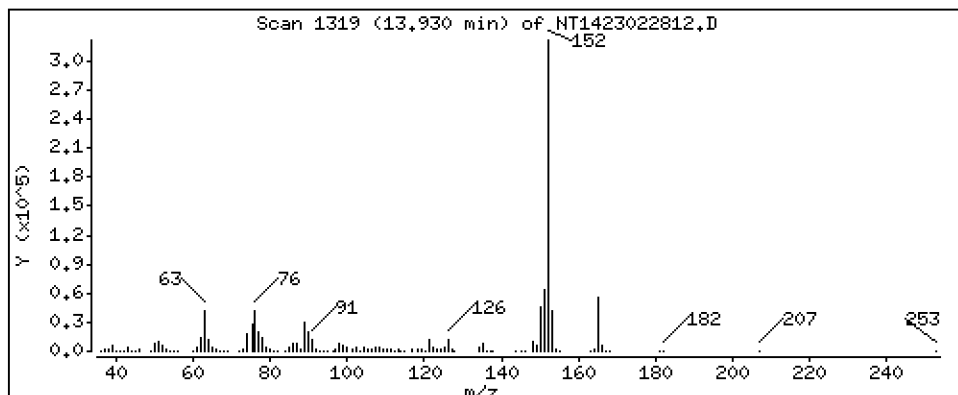
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 5,227 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

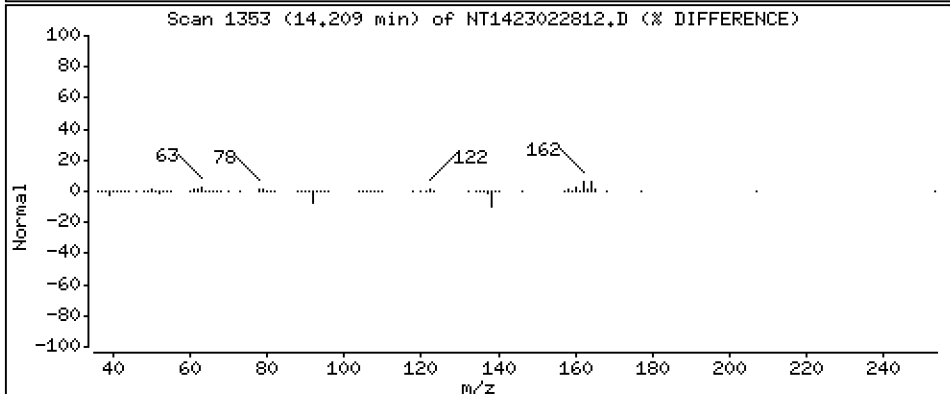
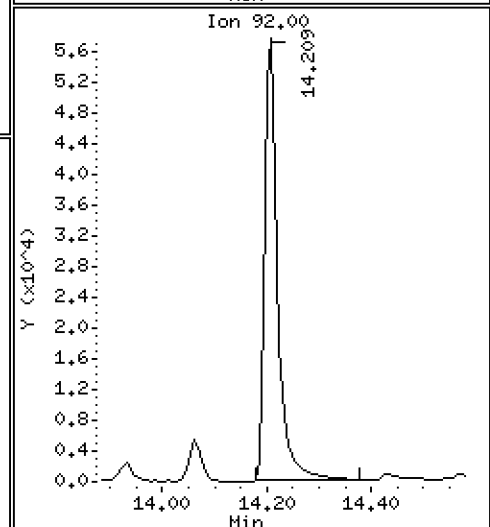
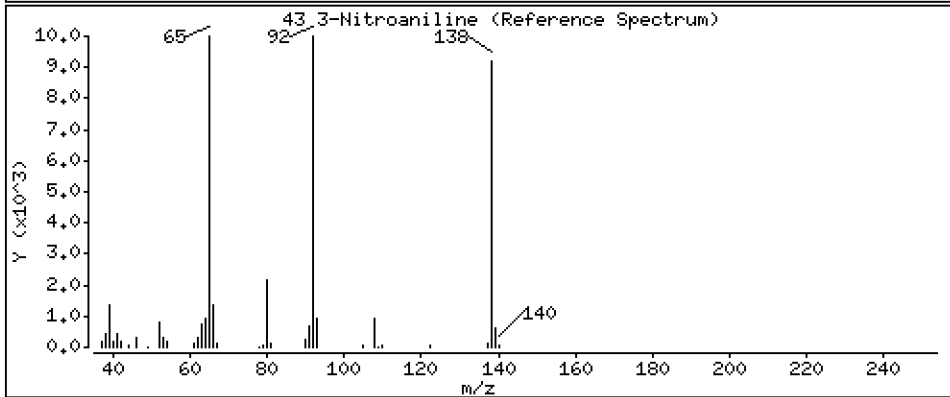
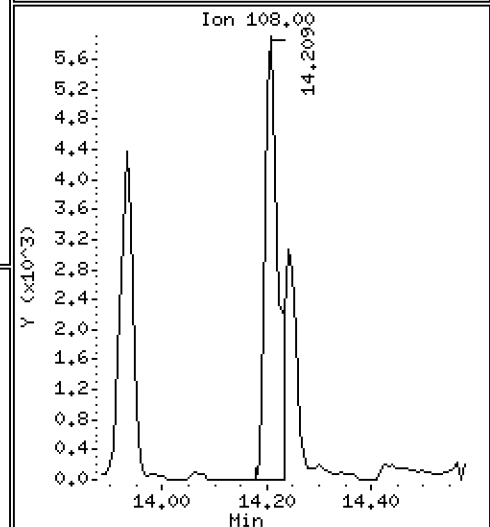
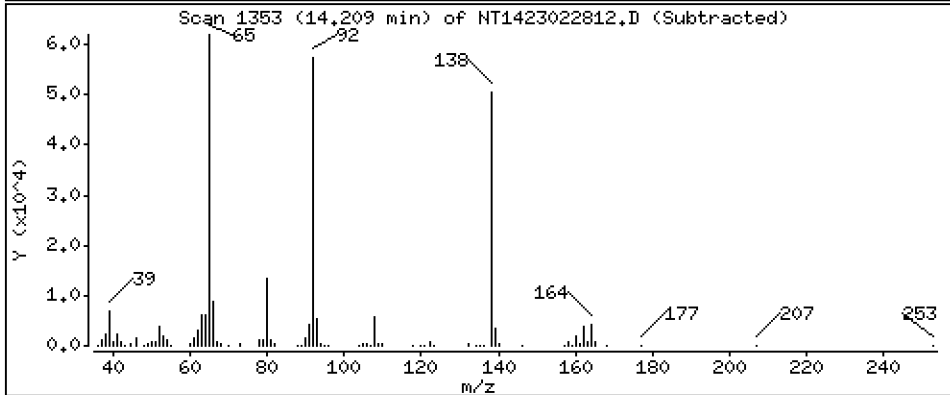
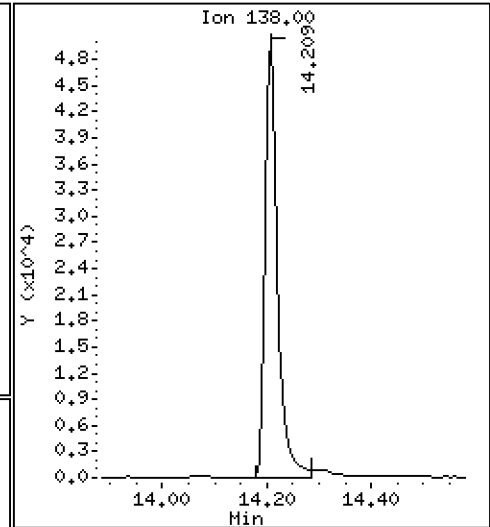
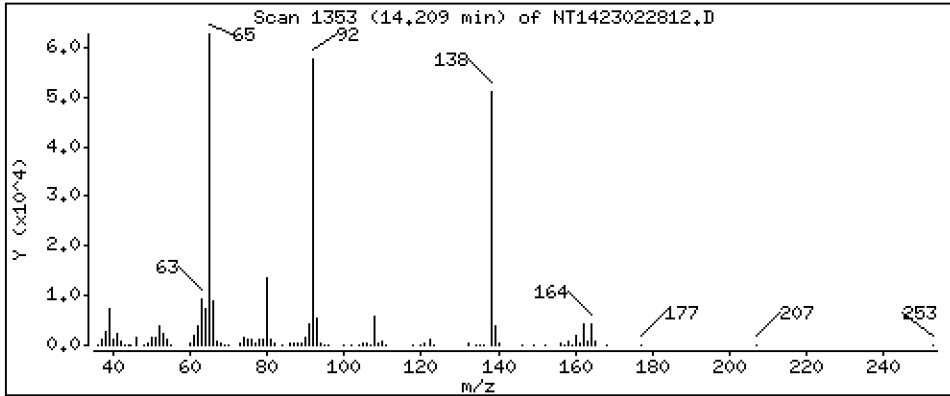
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 4,869 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

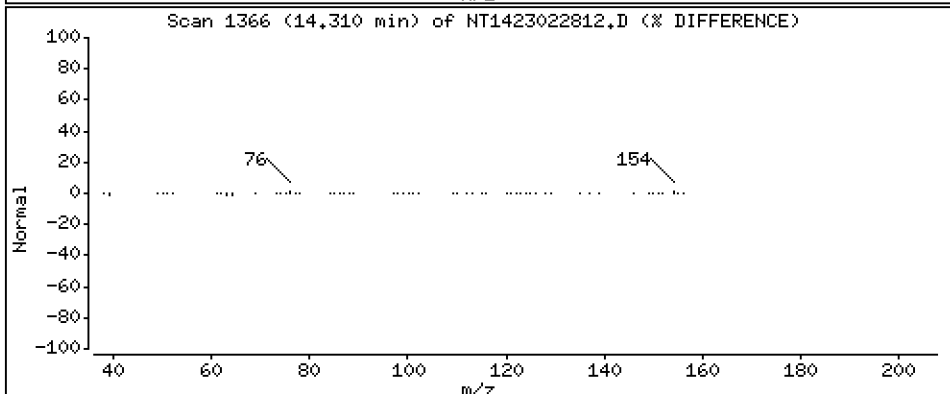
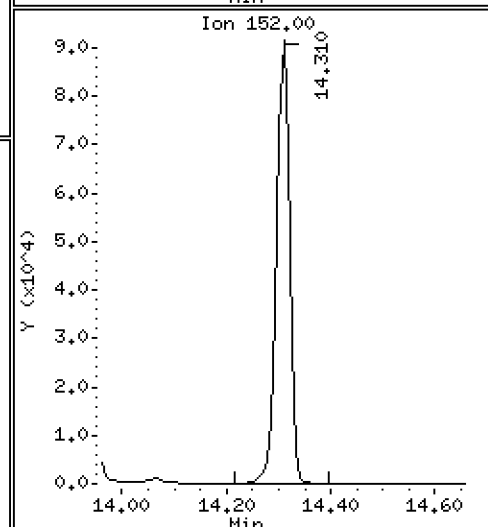
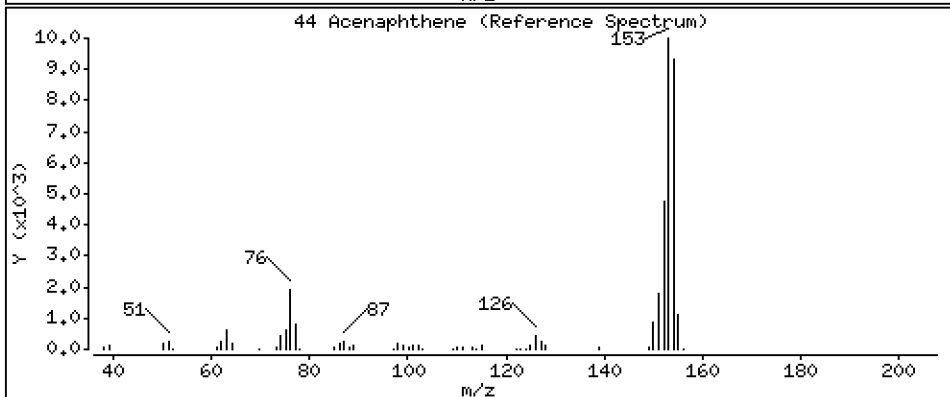
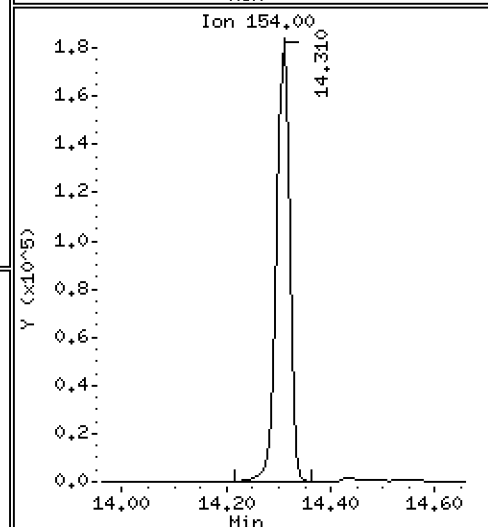
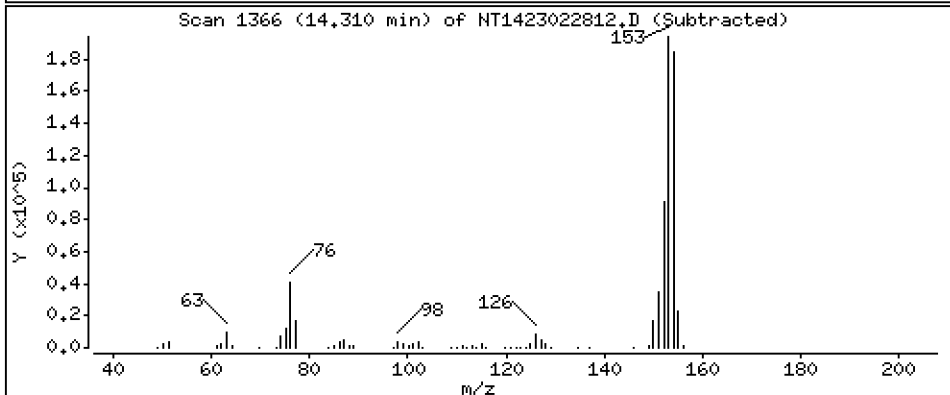
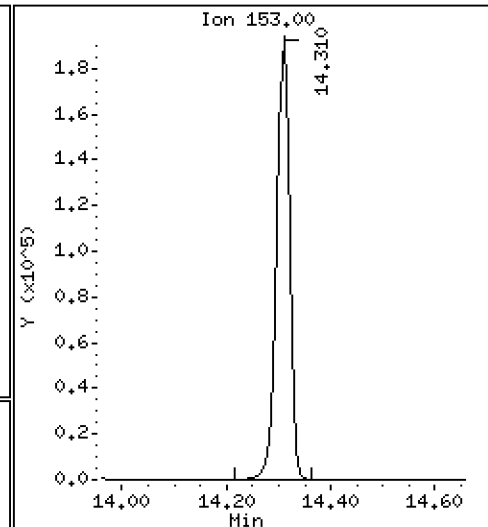
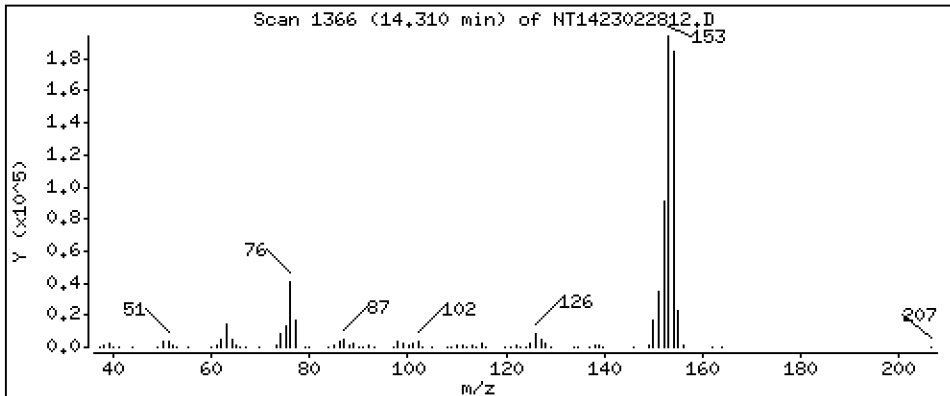
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,767 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

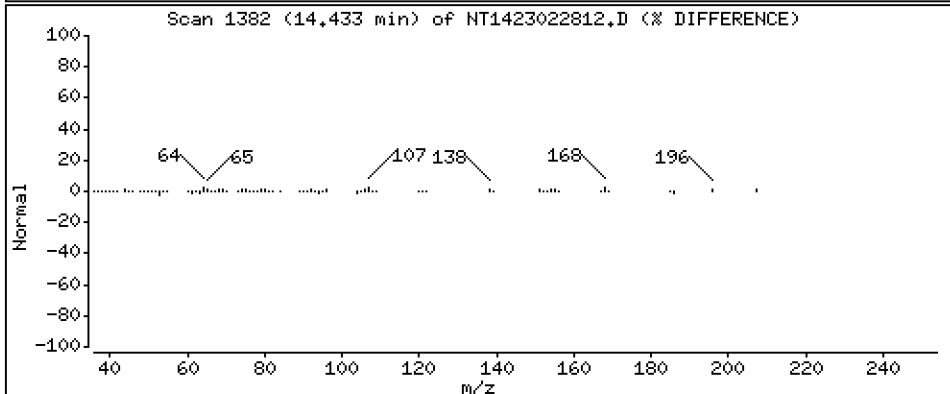
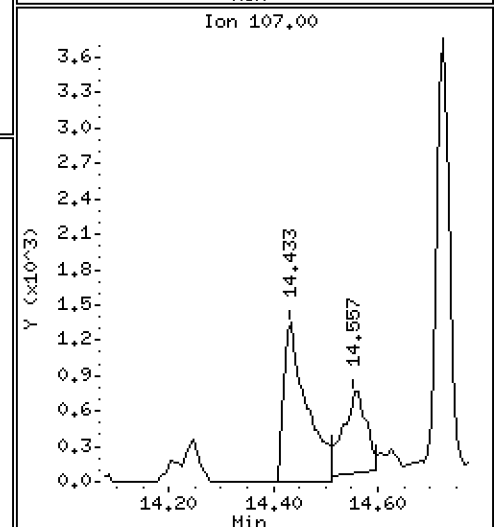
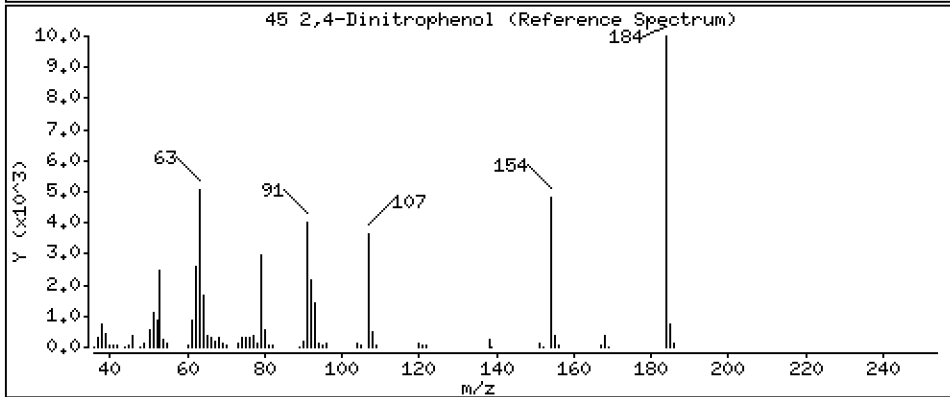
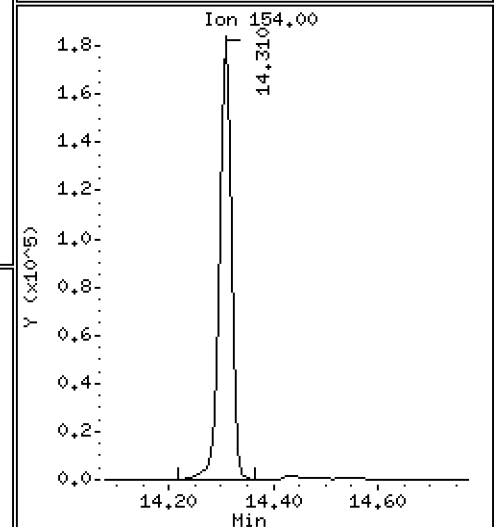
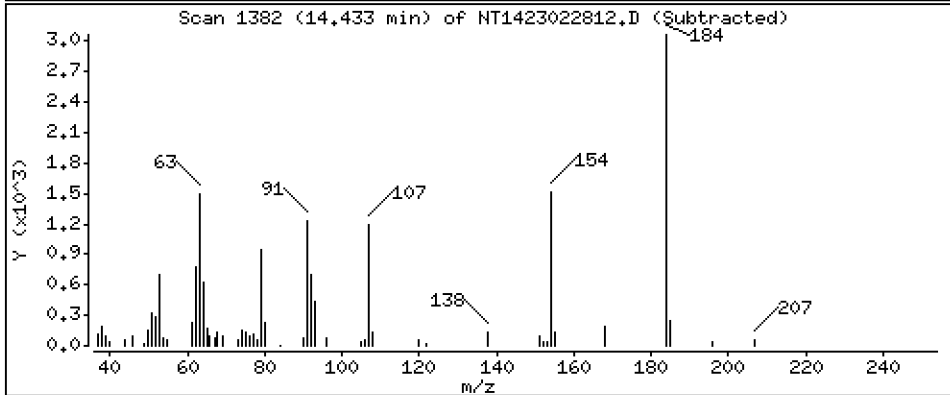
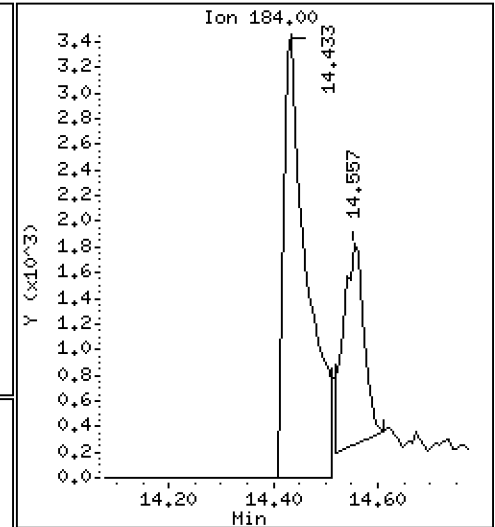
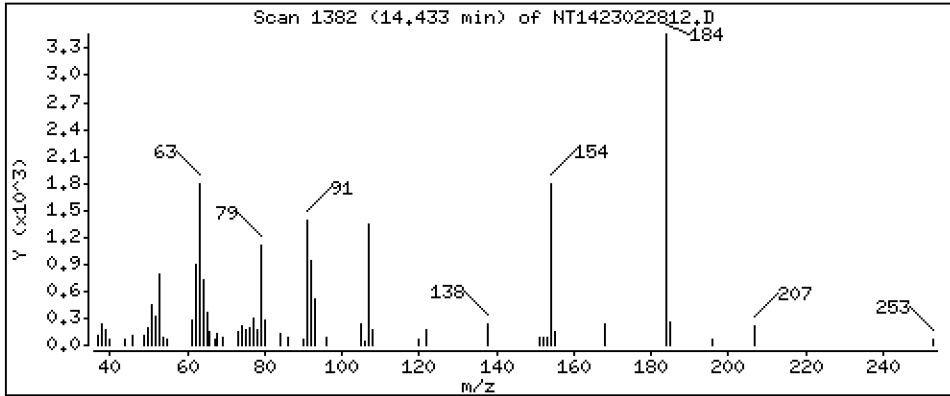
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,9807 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

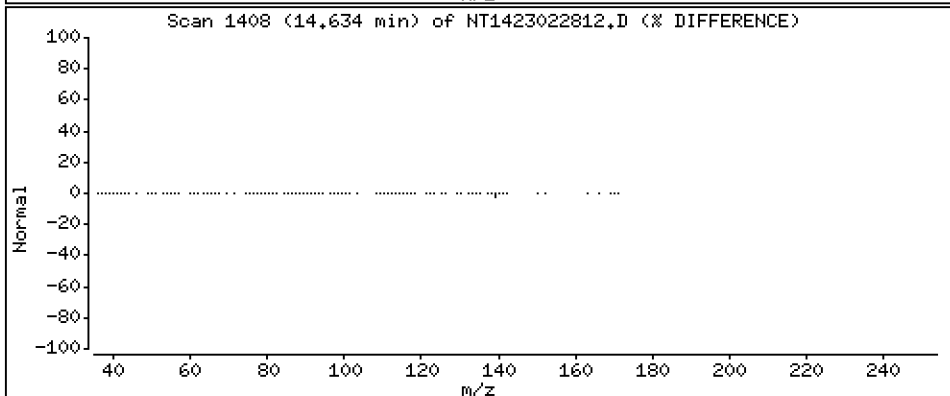
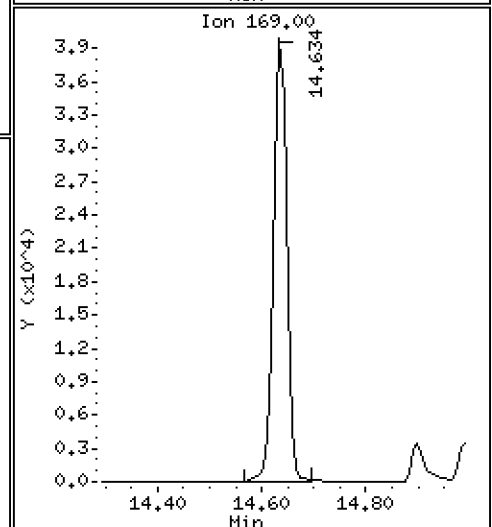
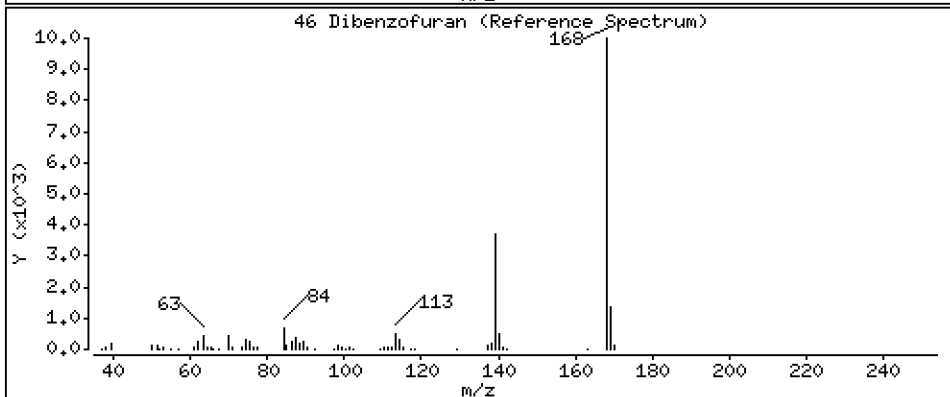
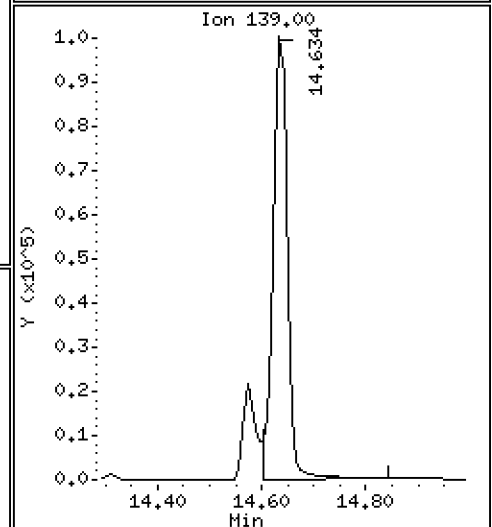
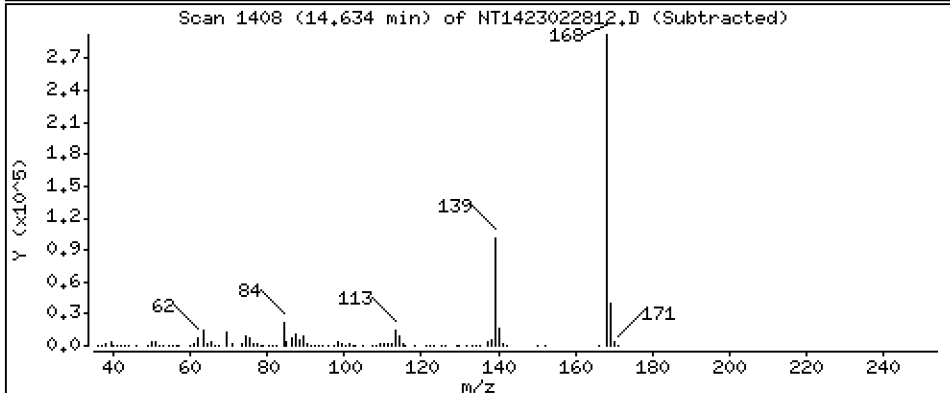
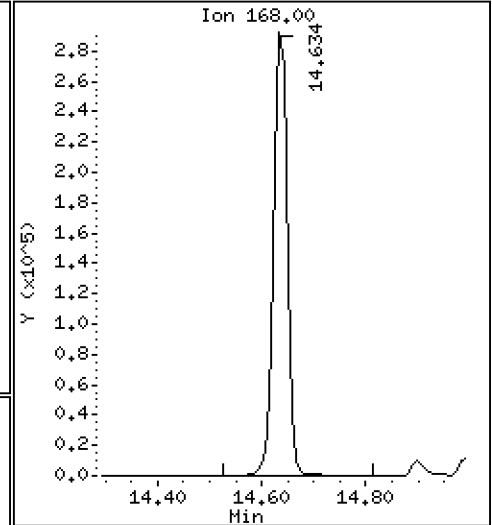
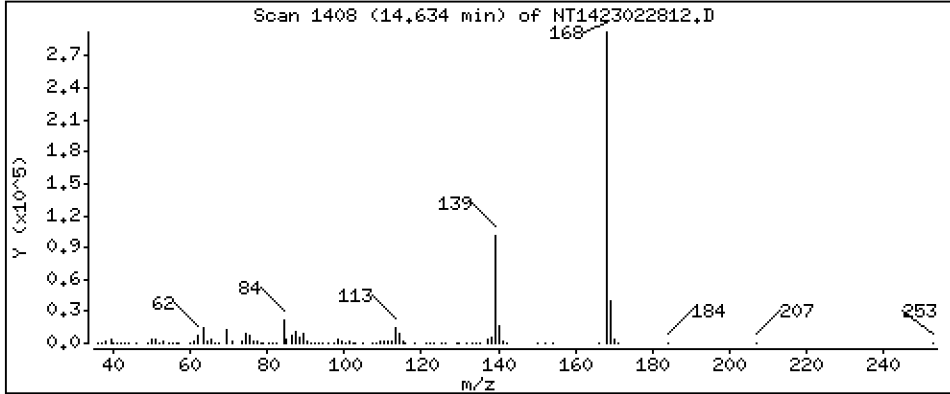
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,718 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

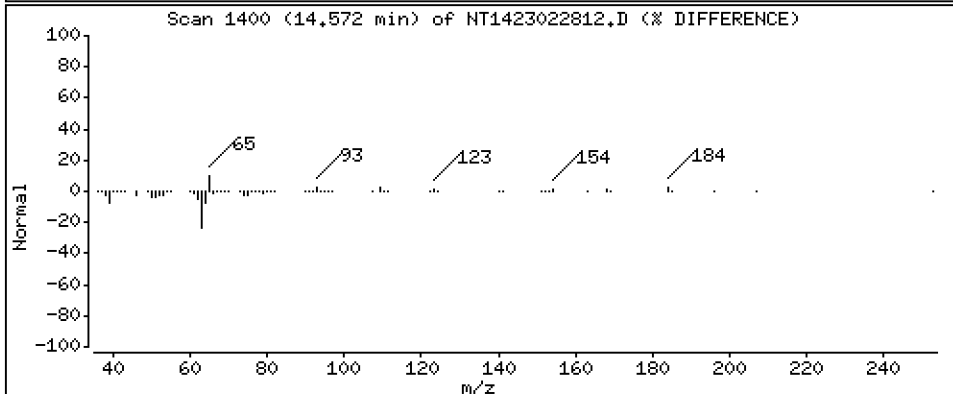
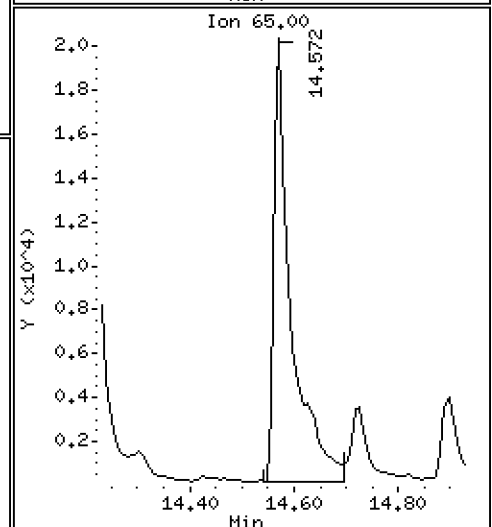
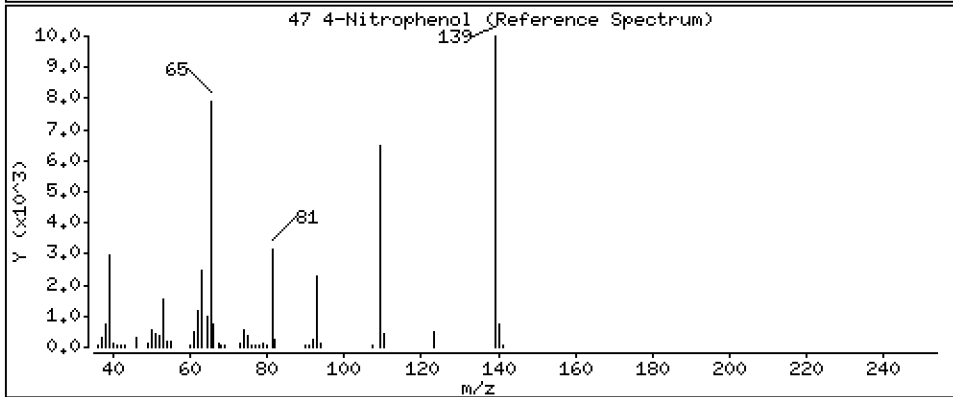
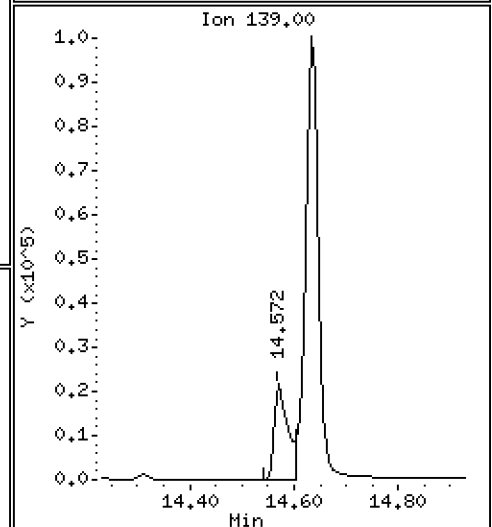
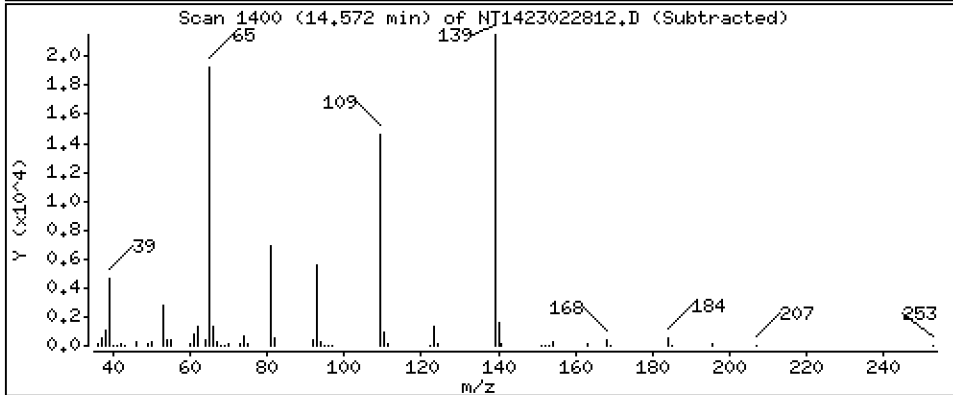
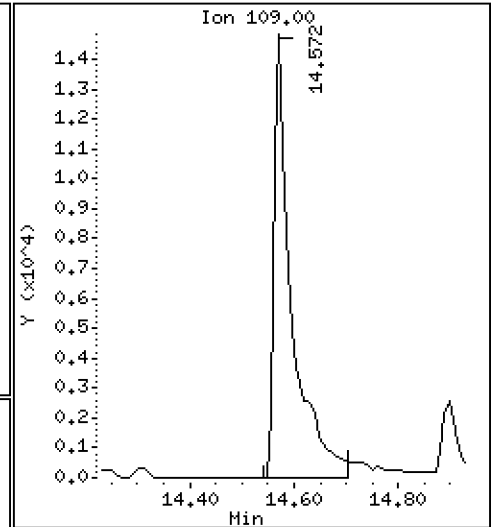
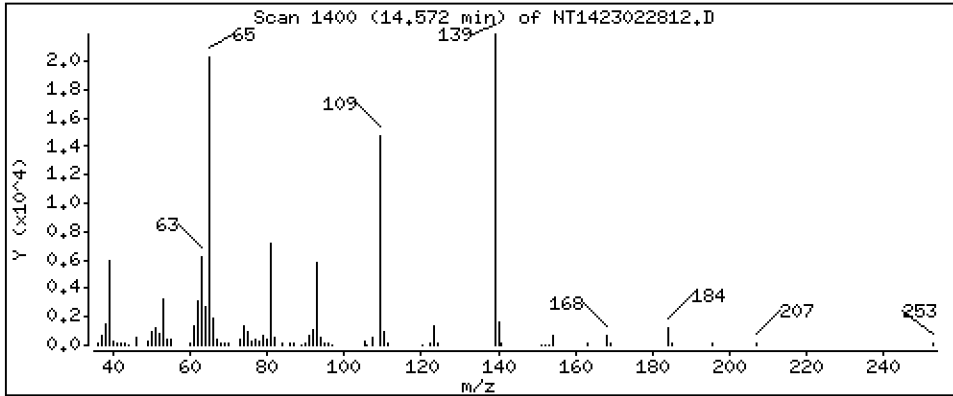
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 3,934 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

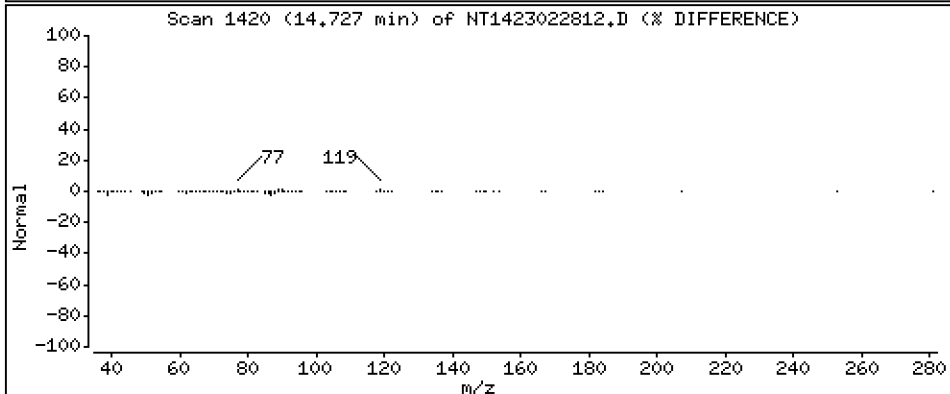
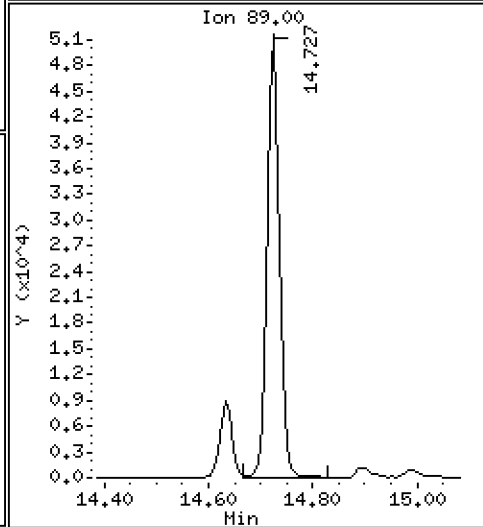
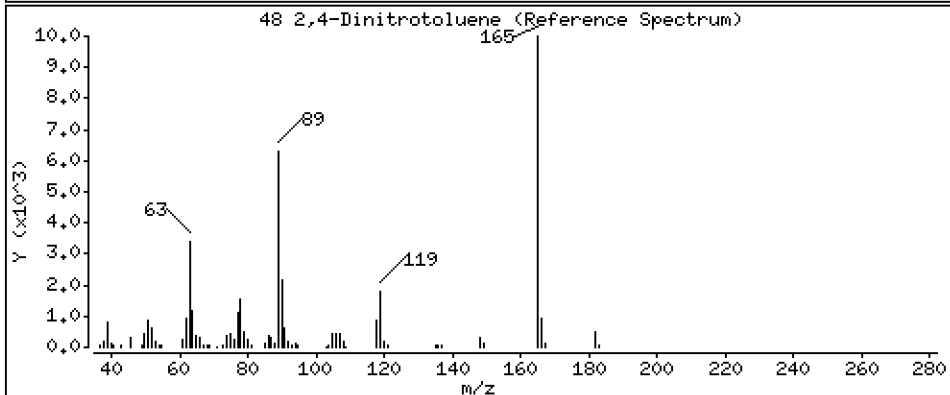
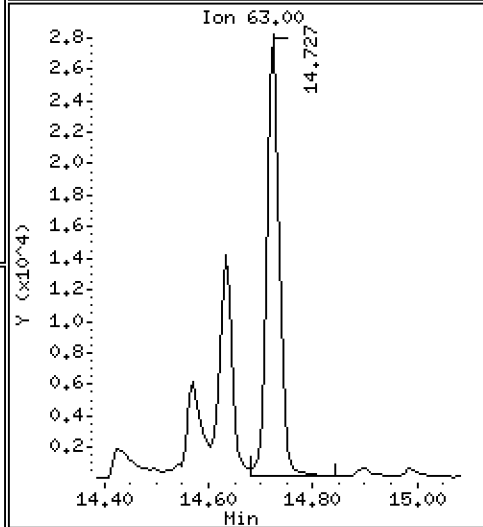
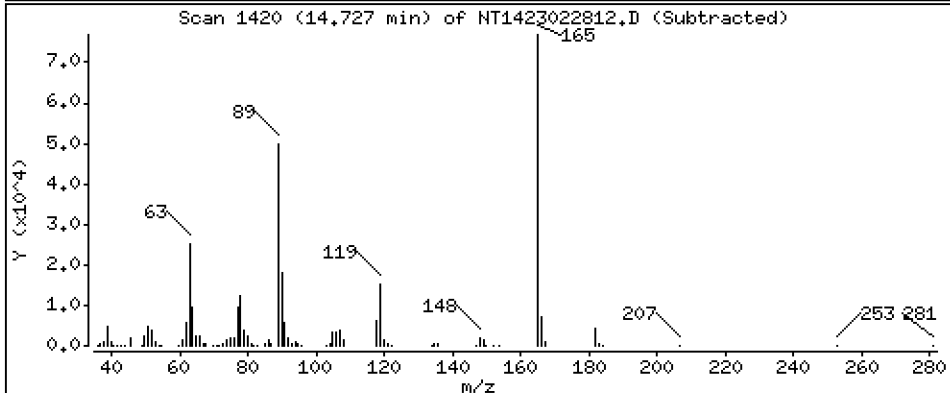
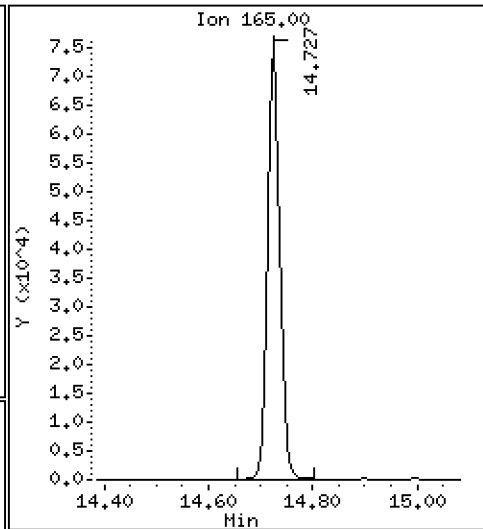
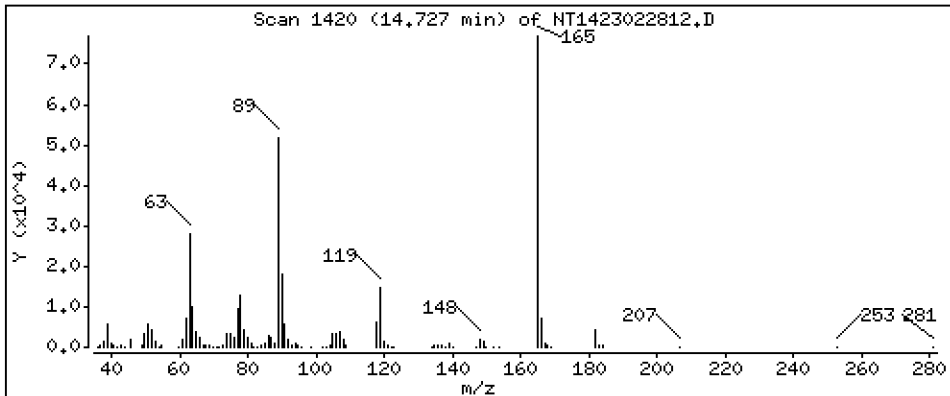
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 4,941 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

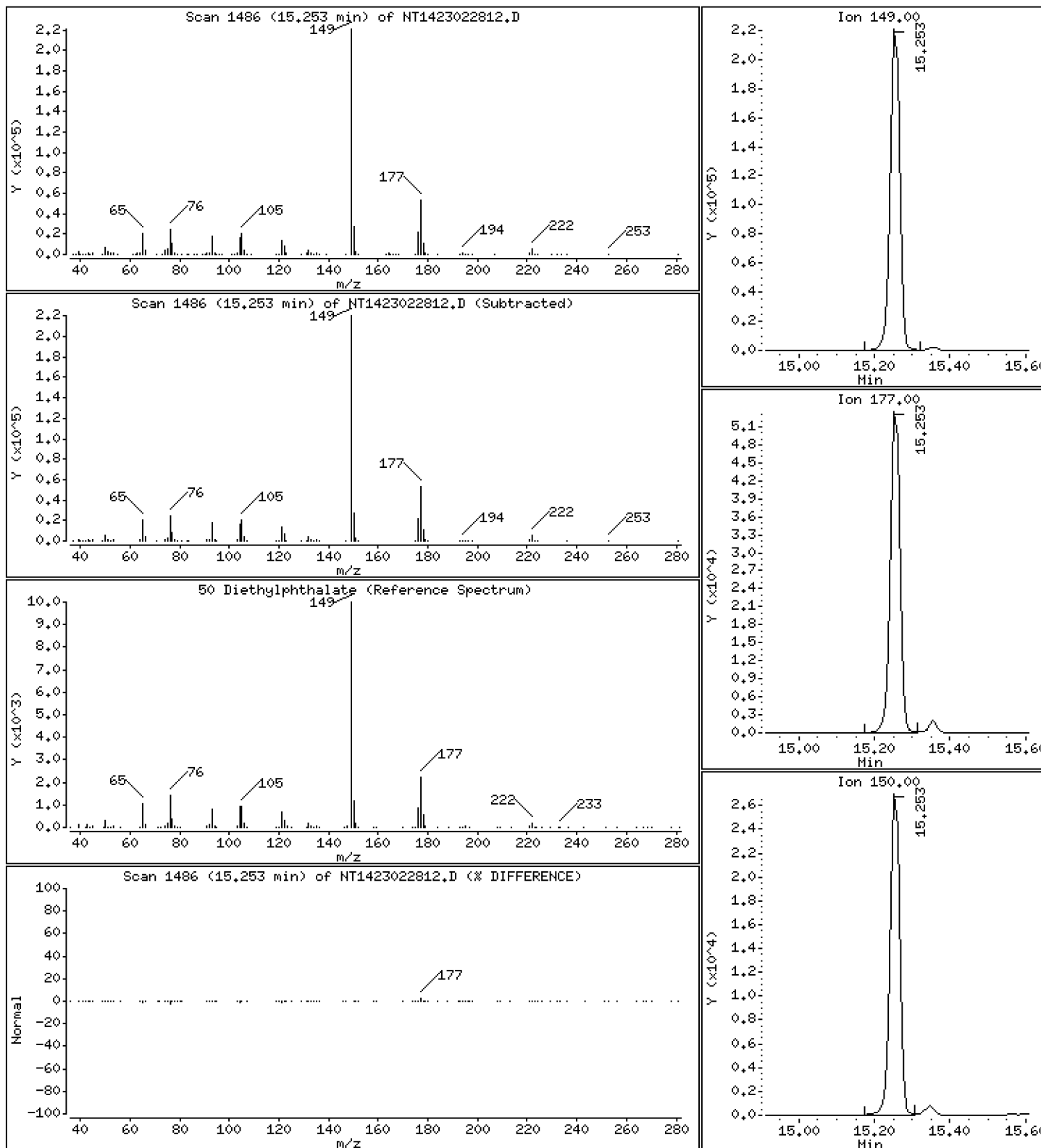
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 5.420 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

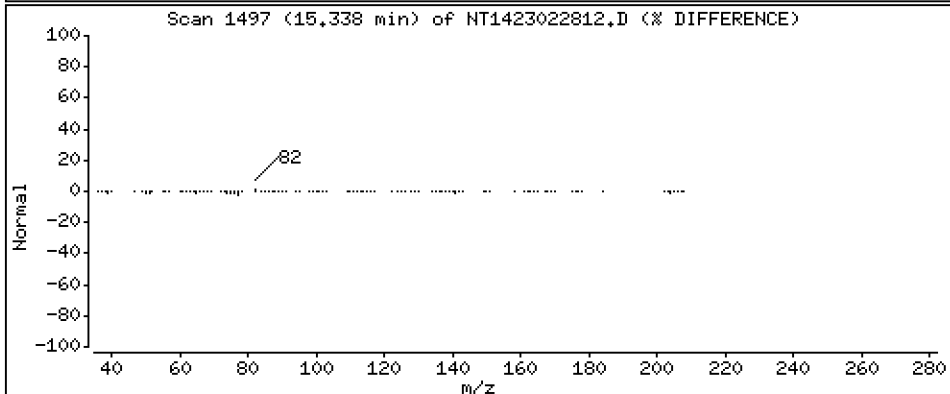
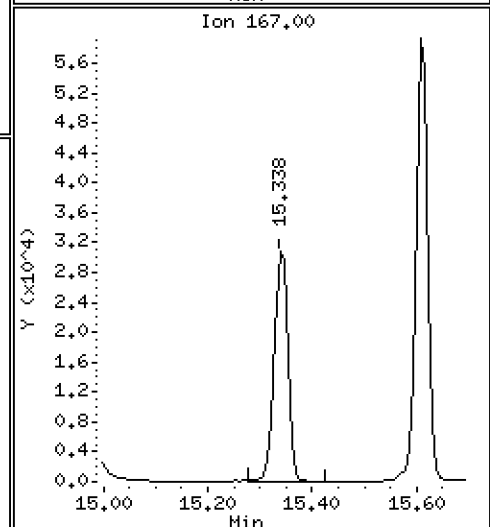
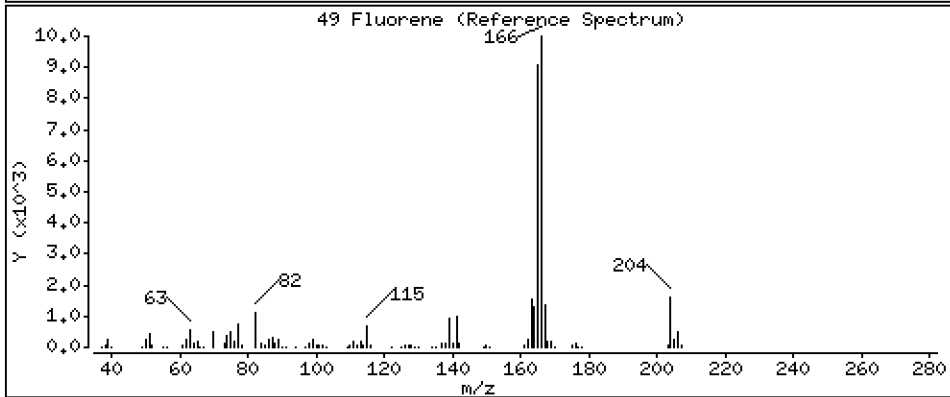
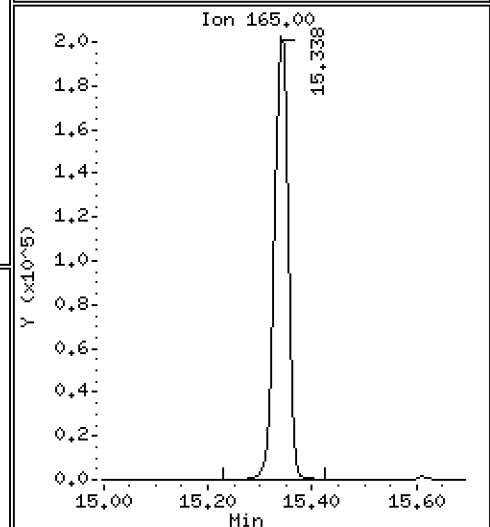
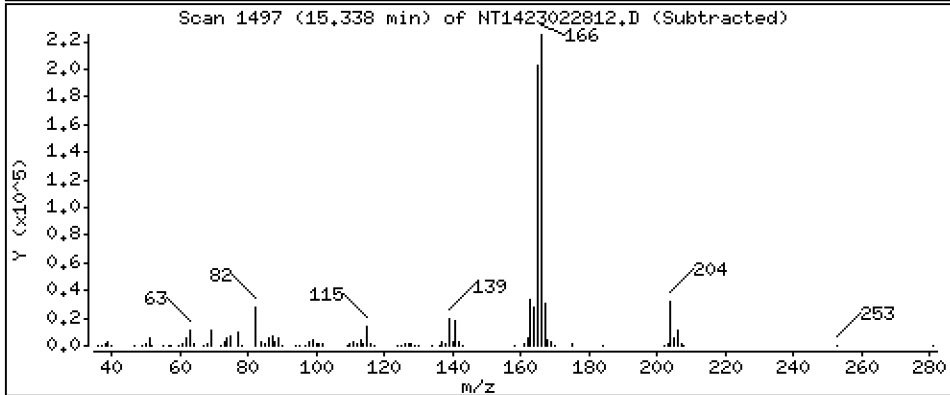
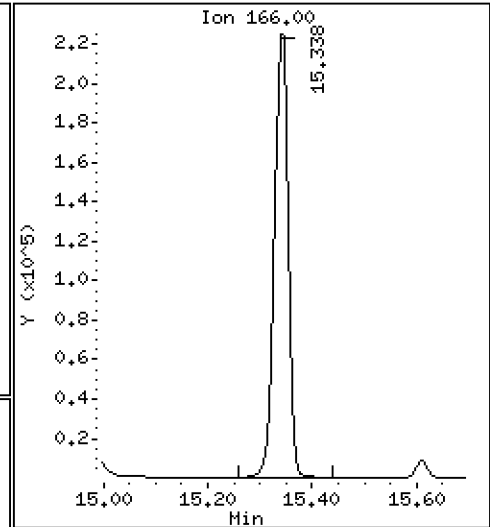
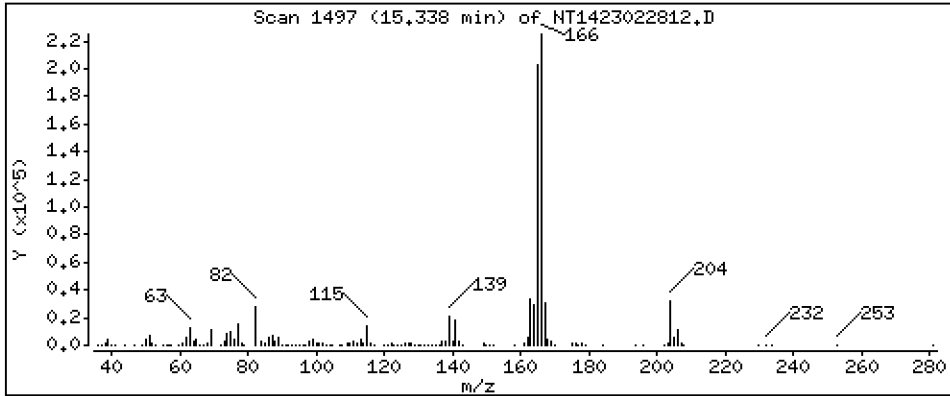
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,793 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

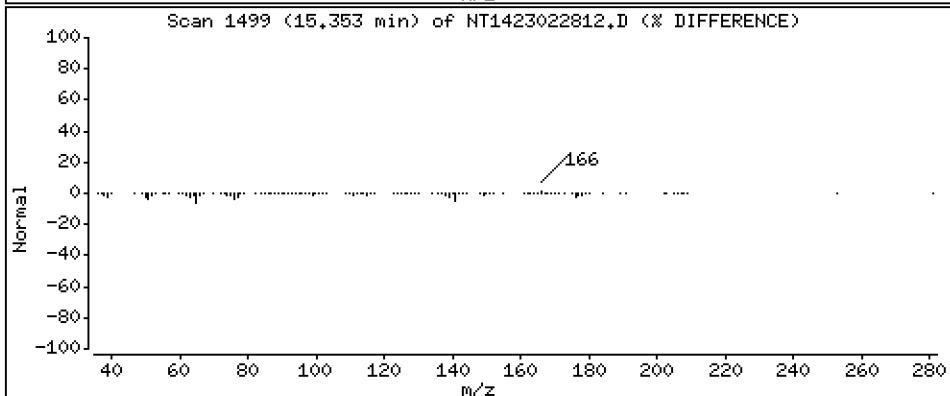
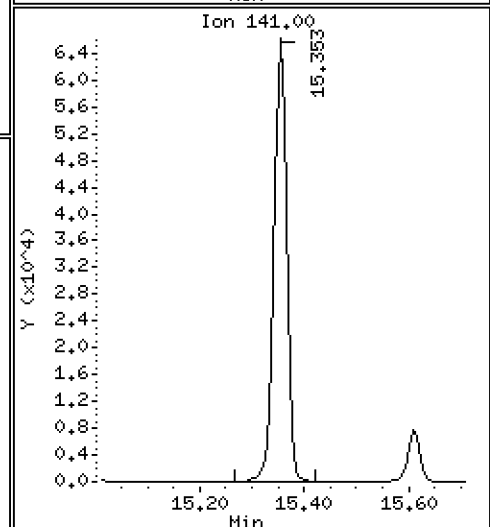
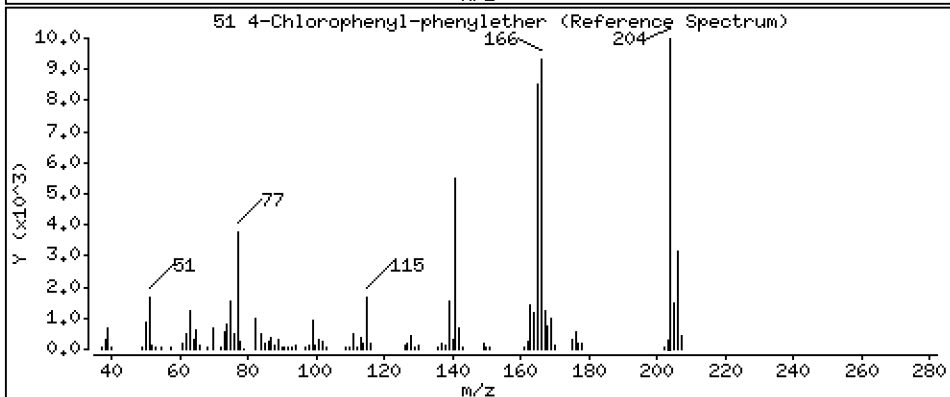
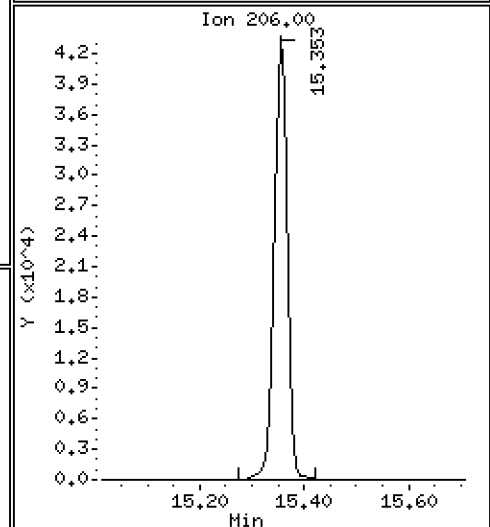
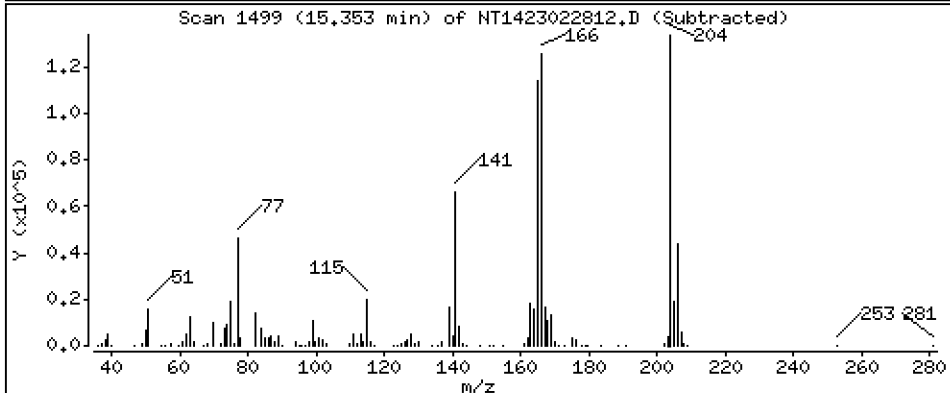
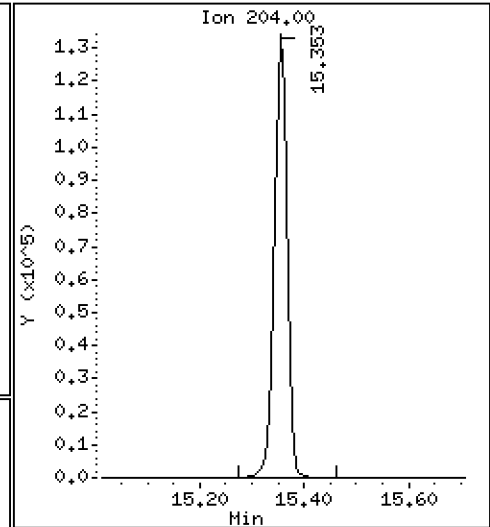
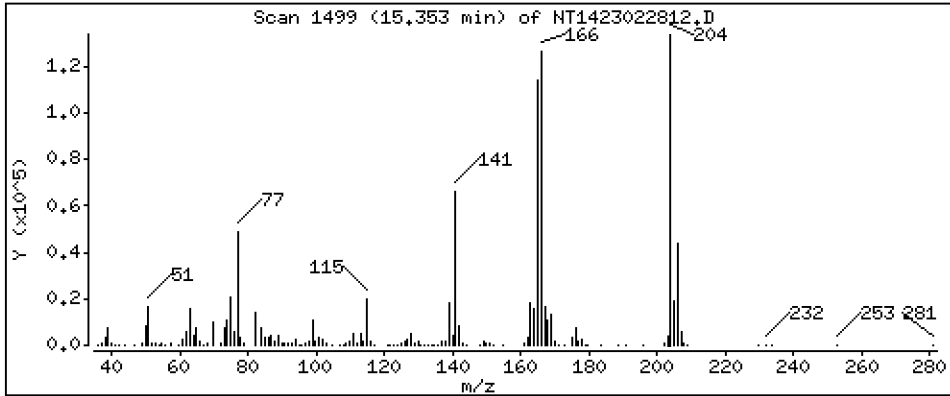
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,884 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

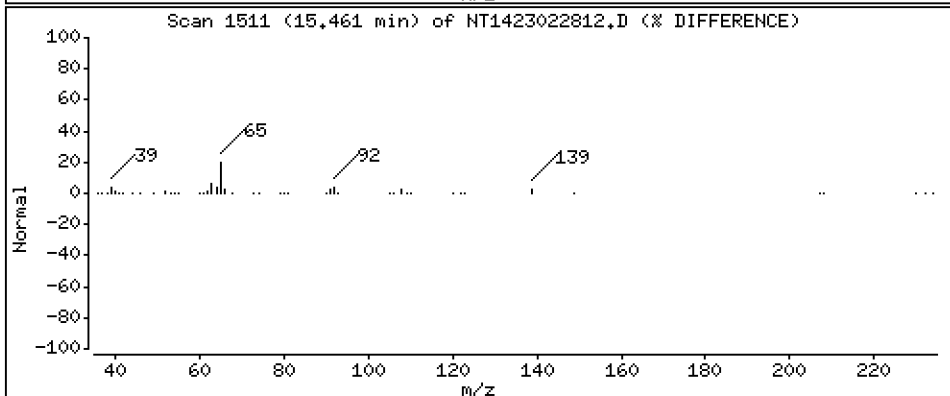
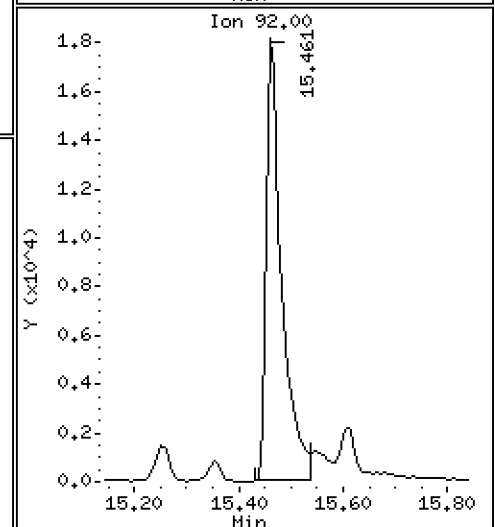
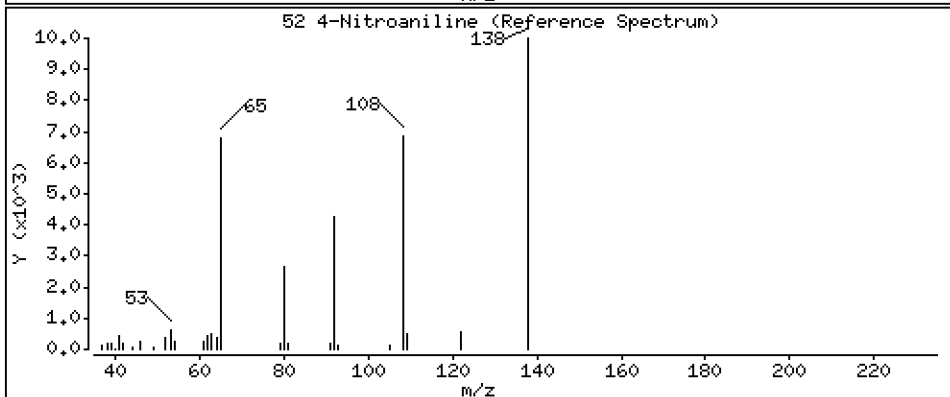
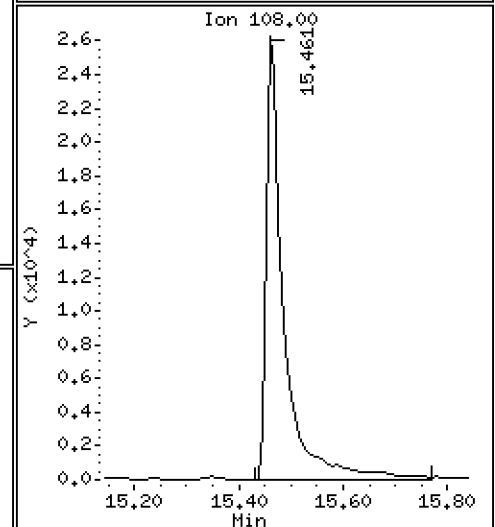
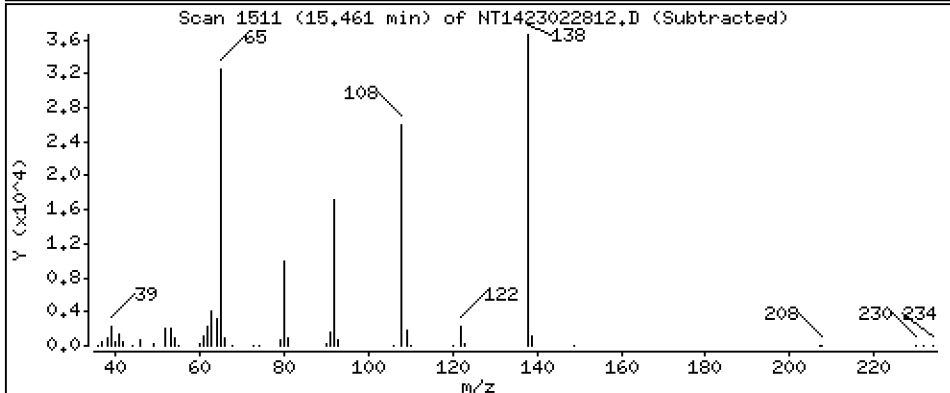
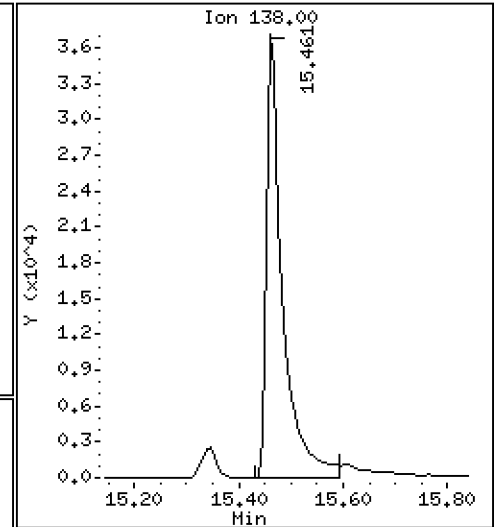
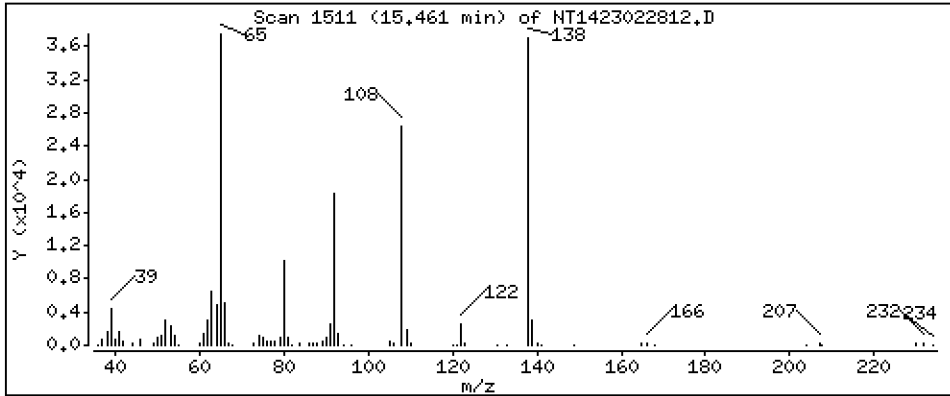
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 4,560 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

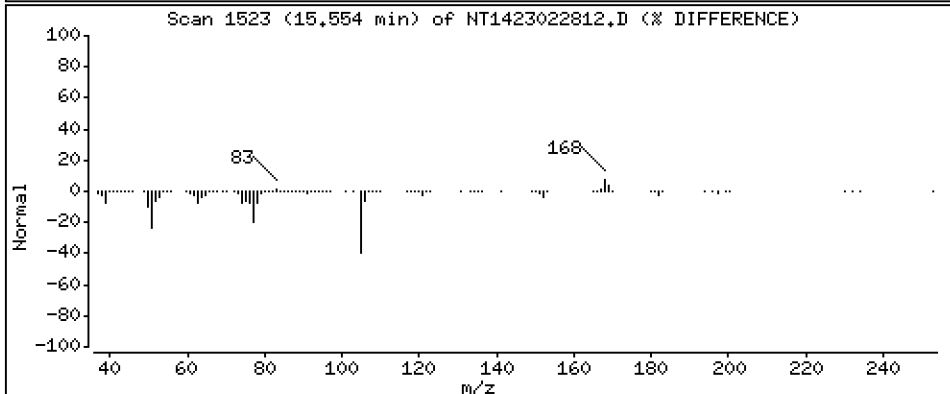
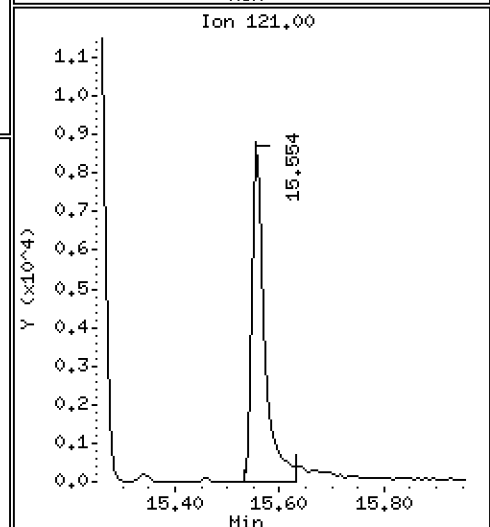
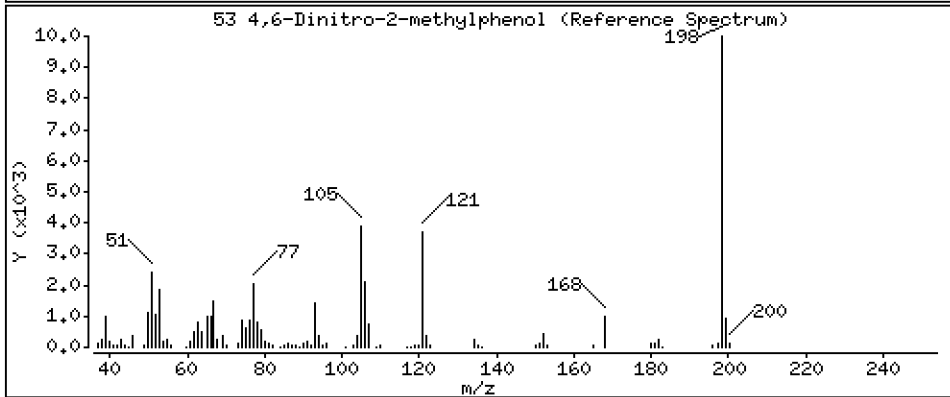
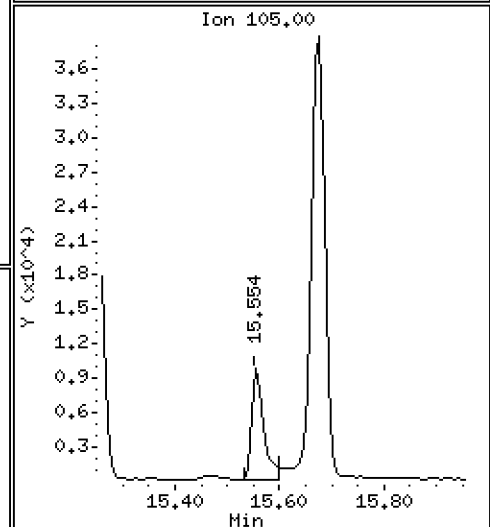
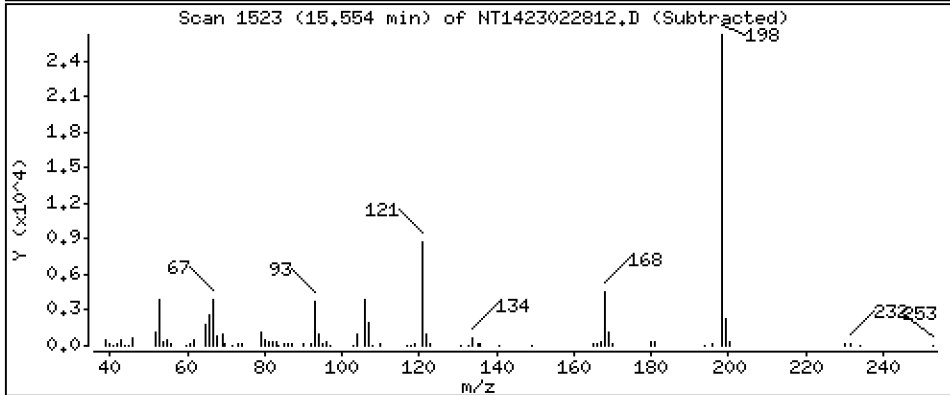
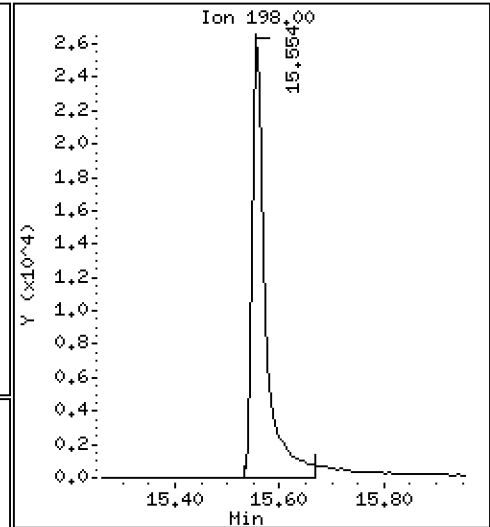
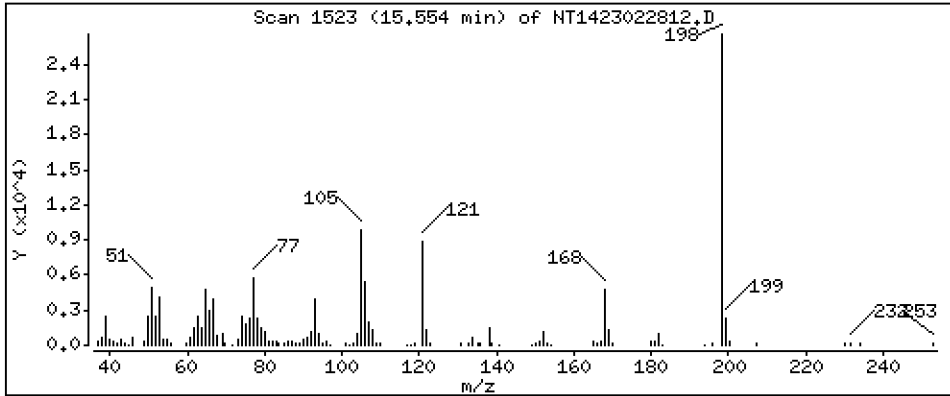
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 3,234 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

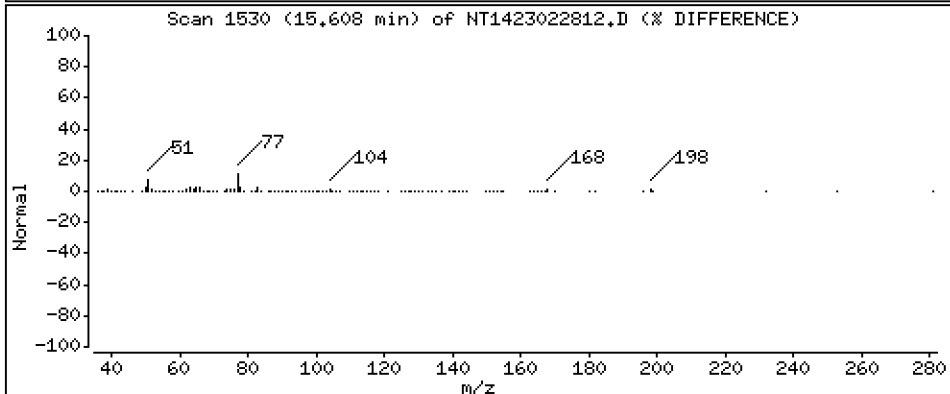
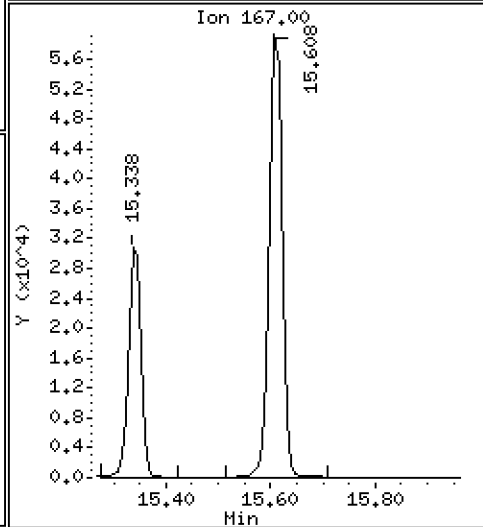
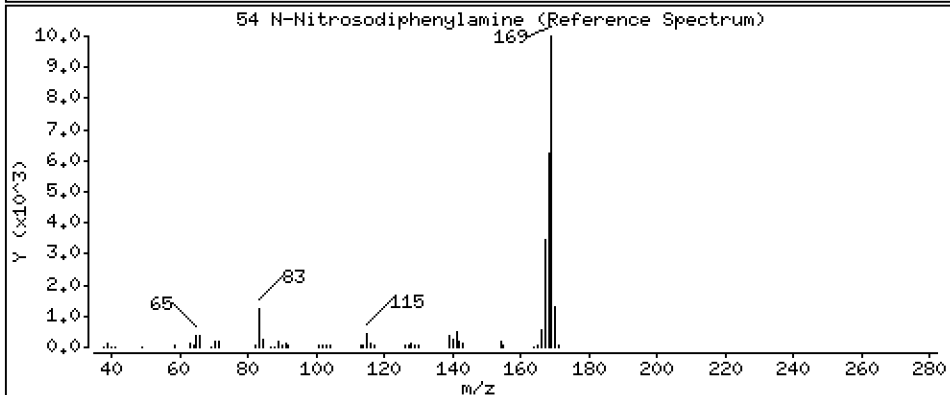
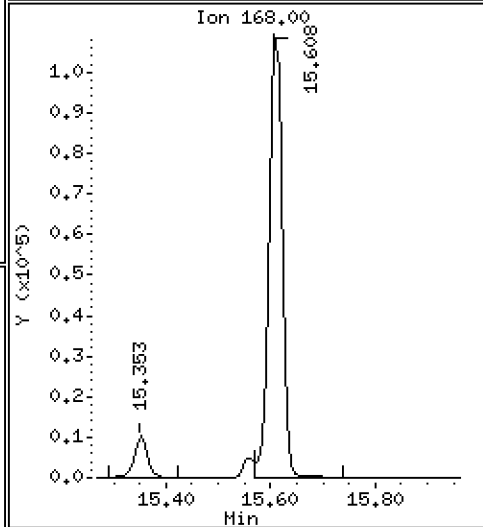
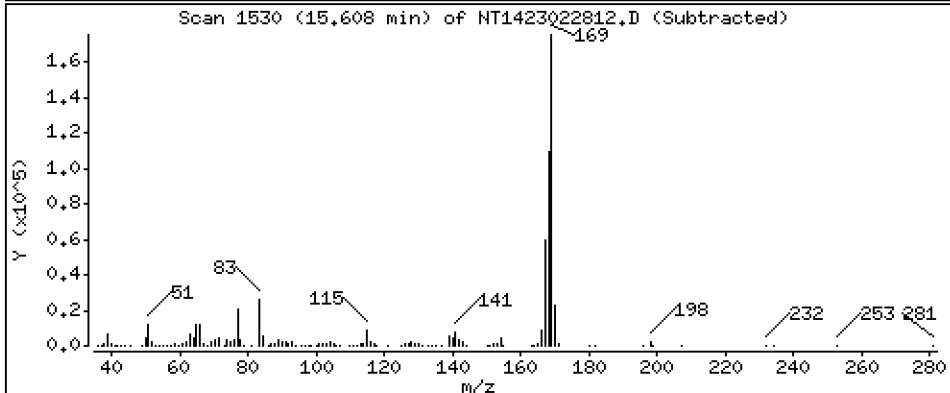
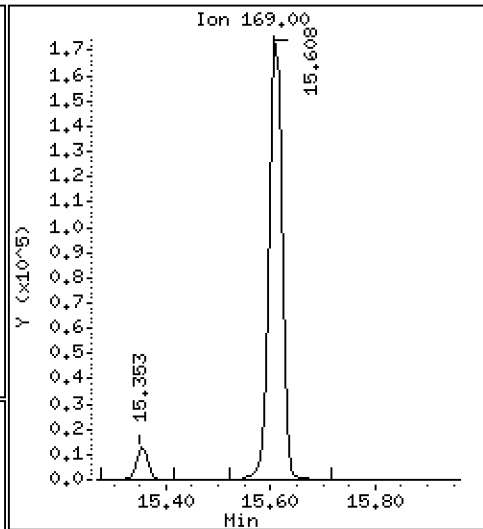
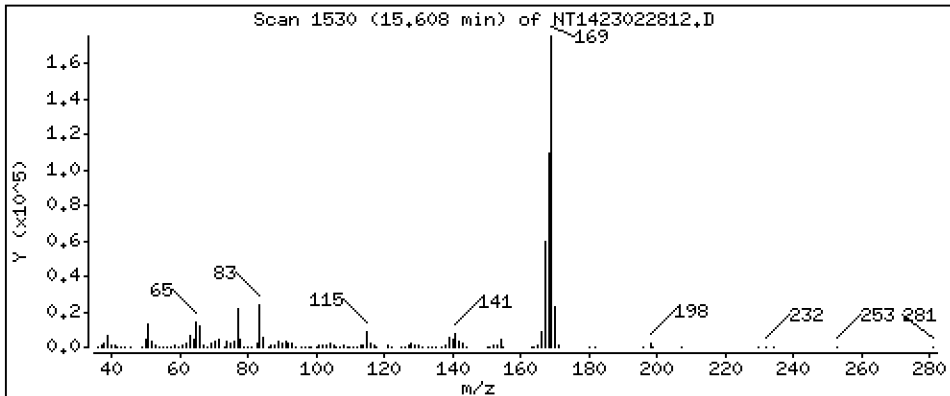
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,980 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

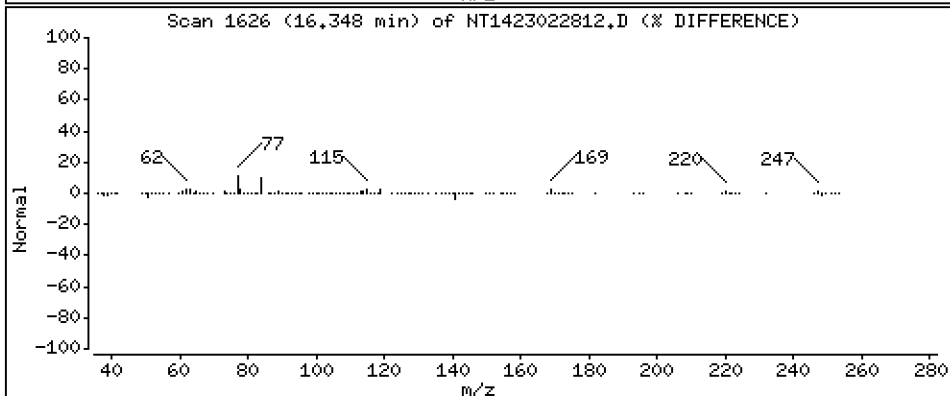
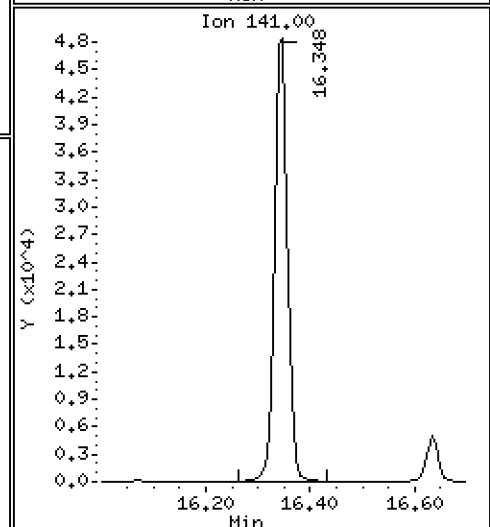
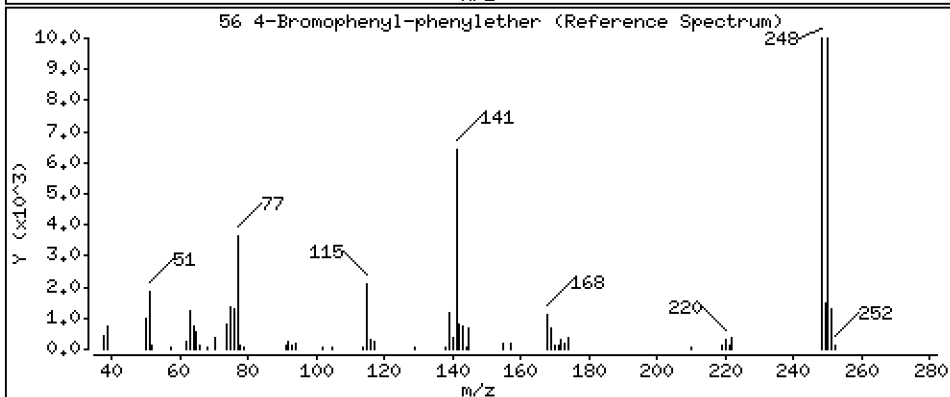
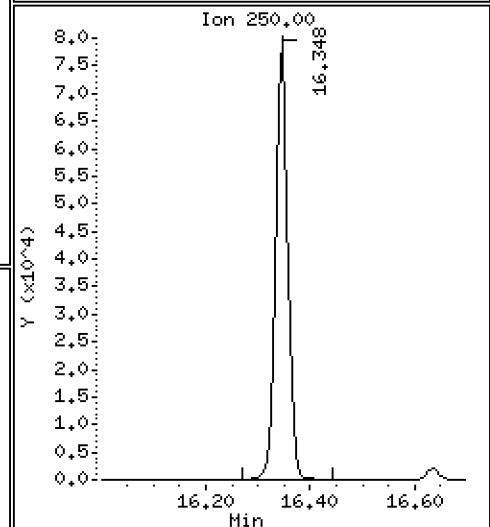
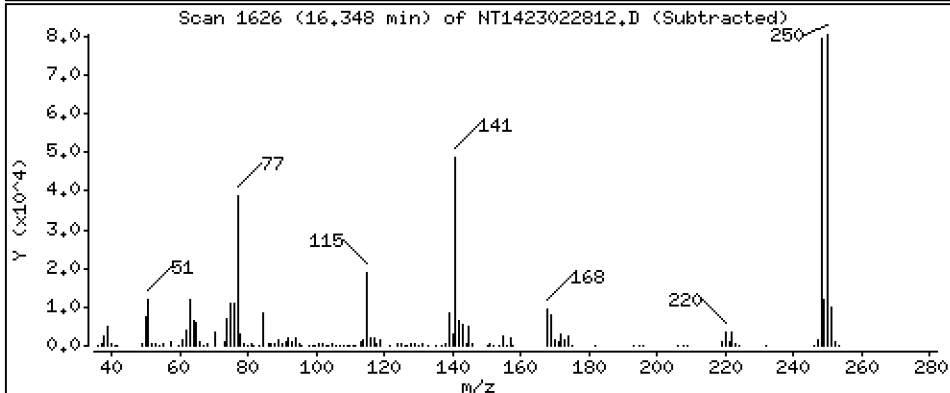
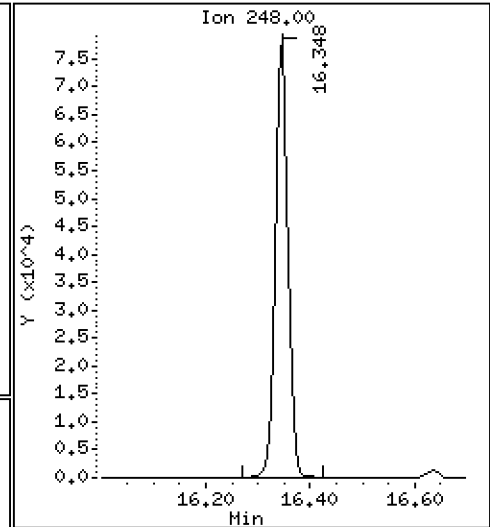
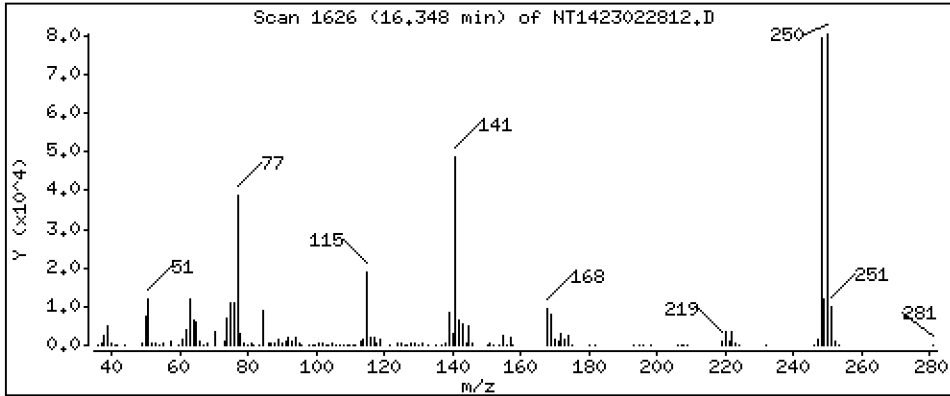
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,152 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

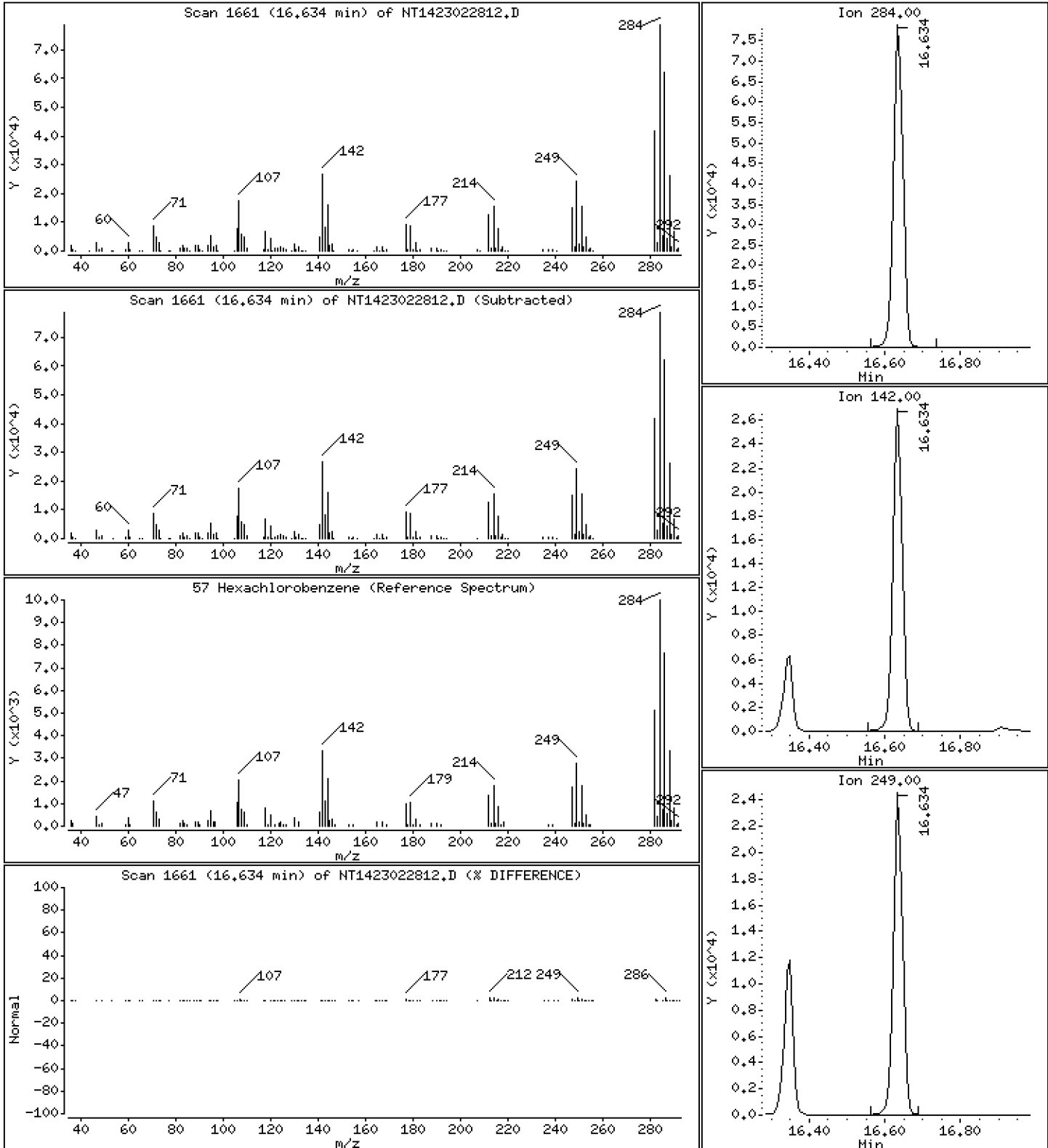
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,790 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

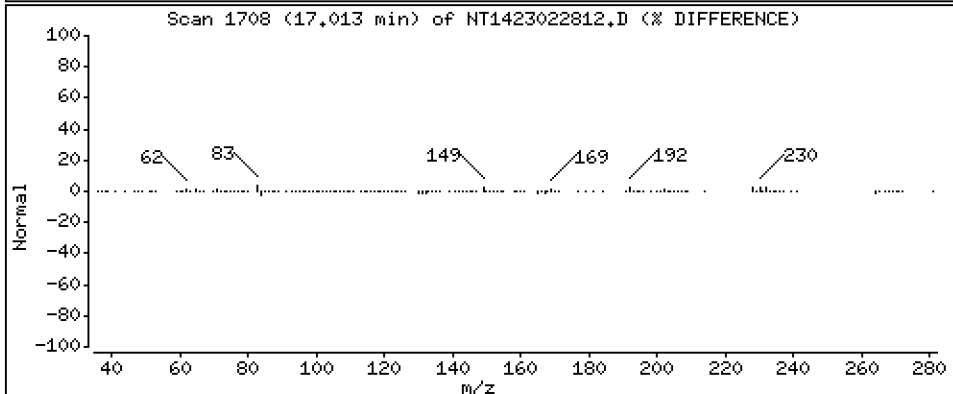
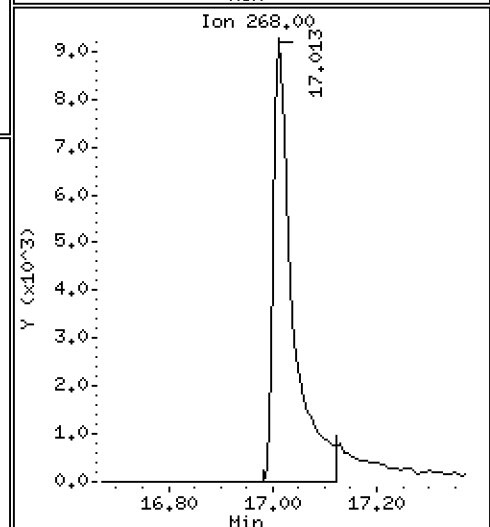
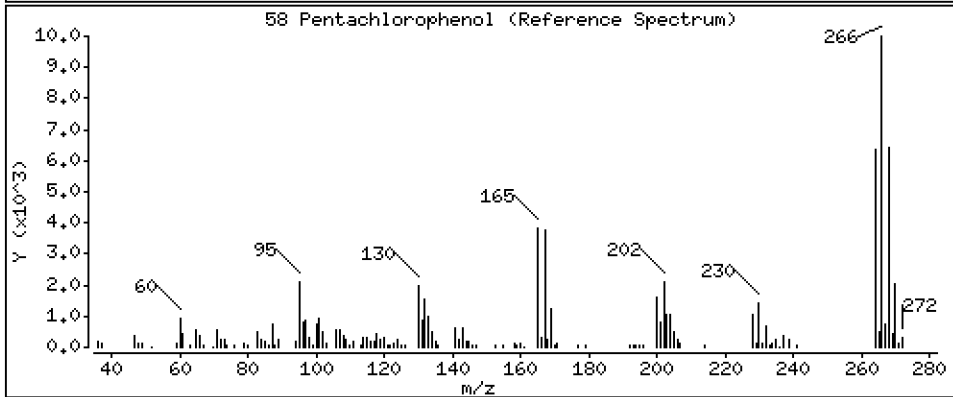
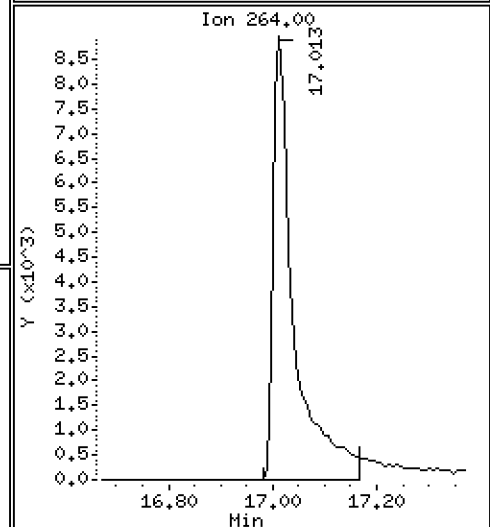
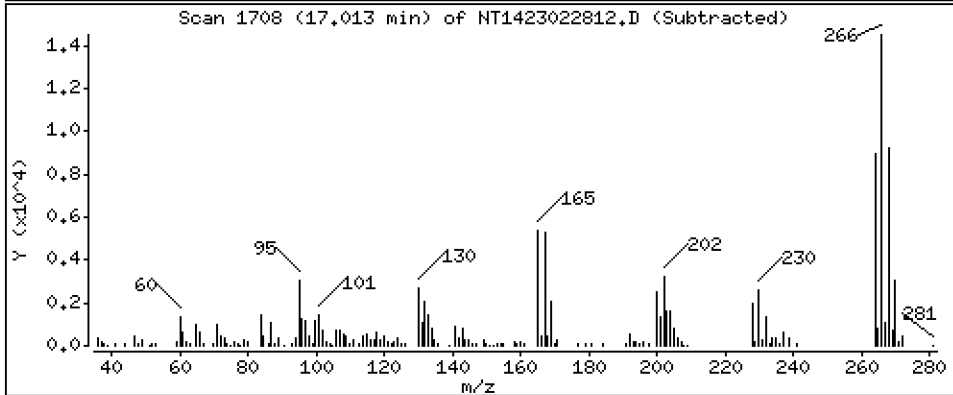
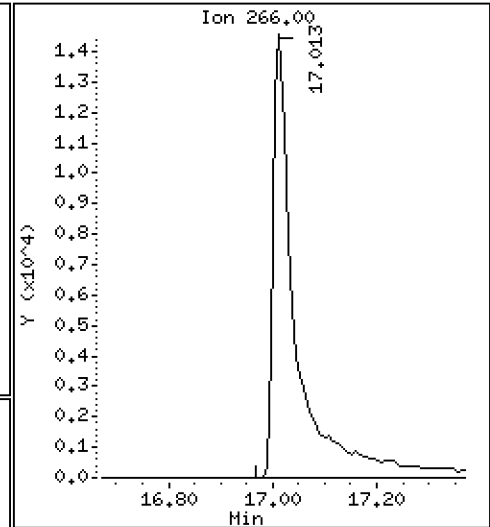
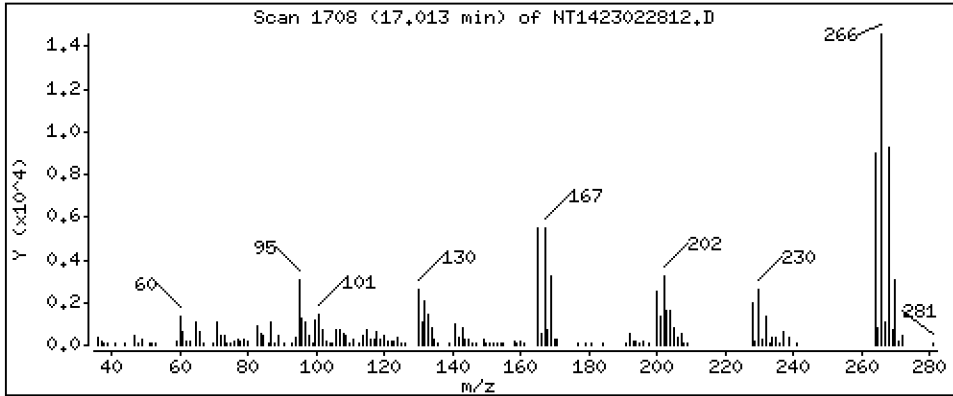
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 3,524 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

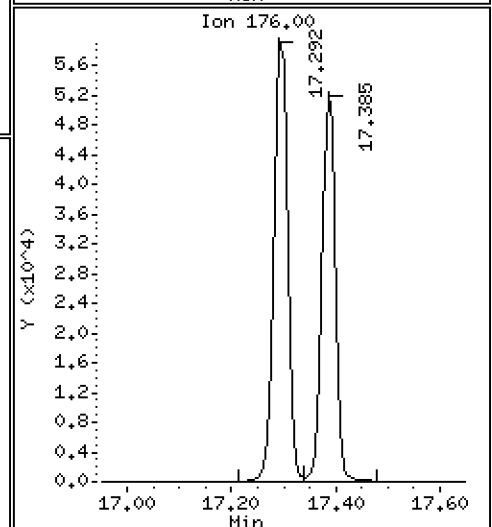
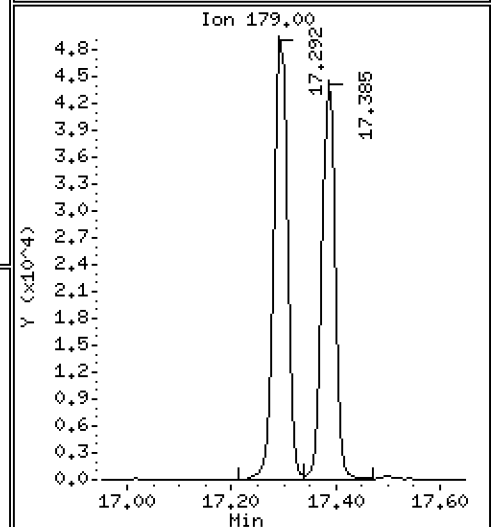
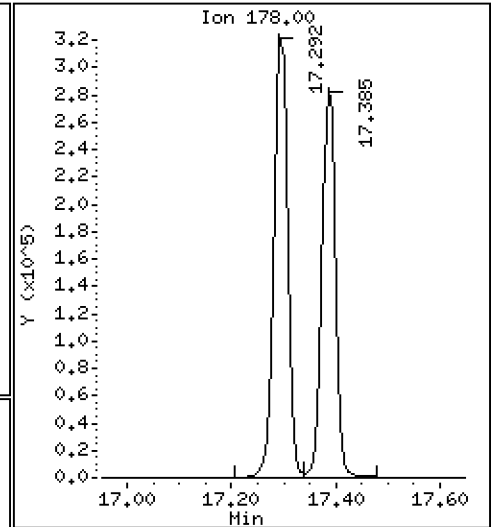
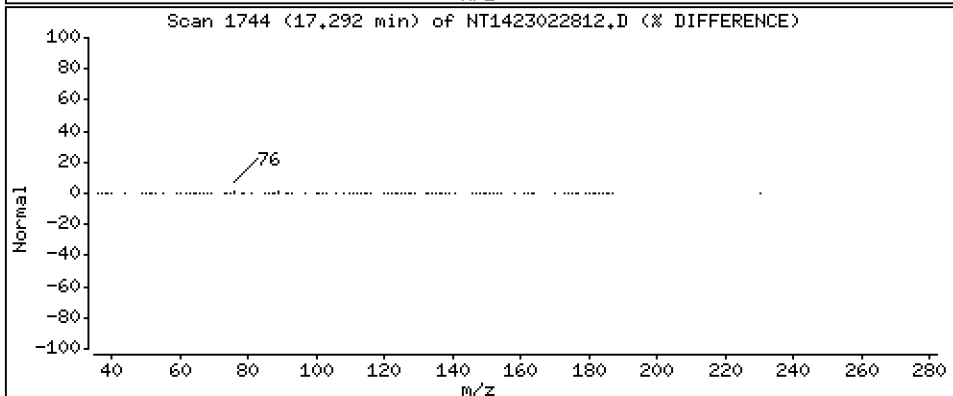
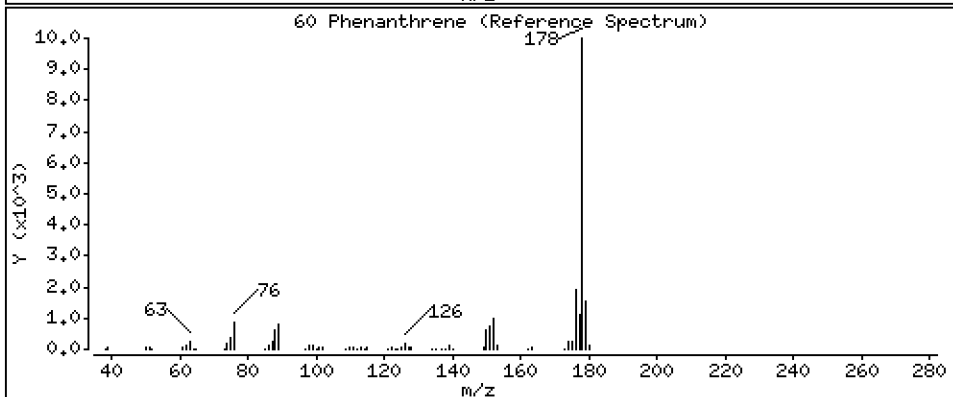
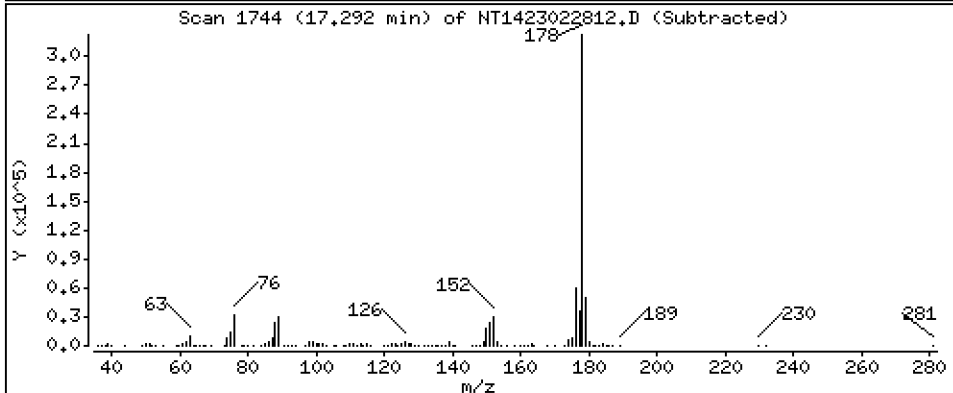
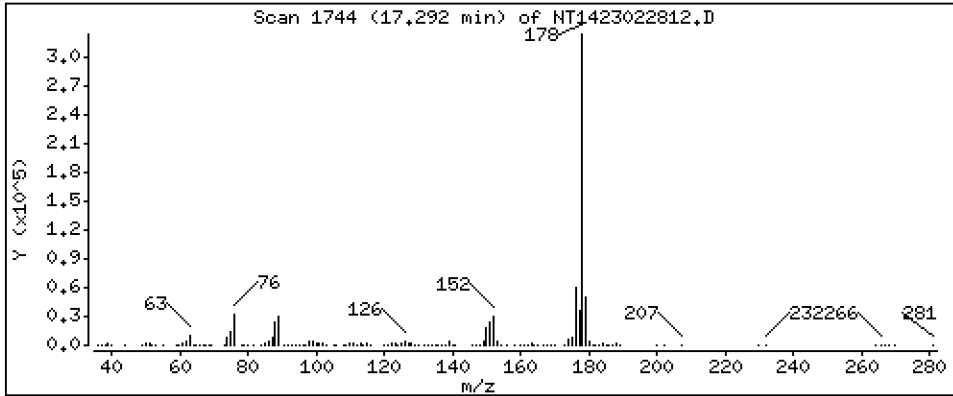
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,615 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

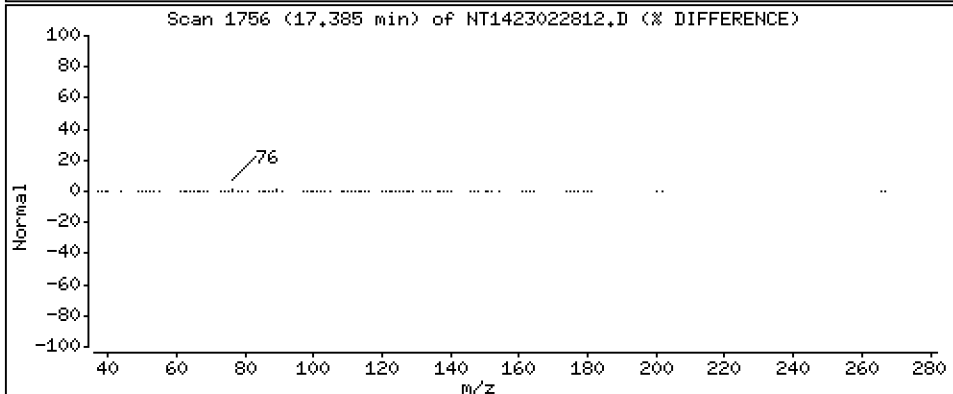
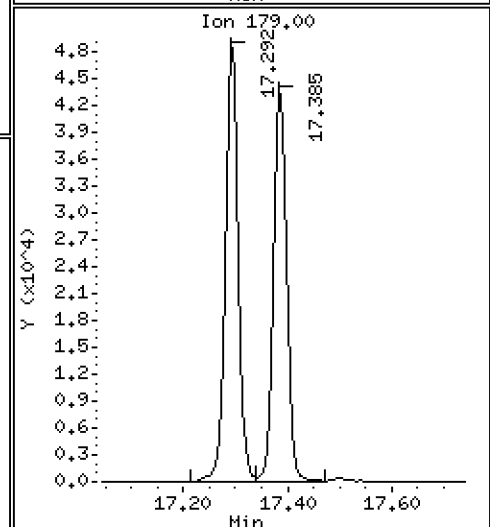
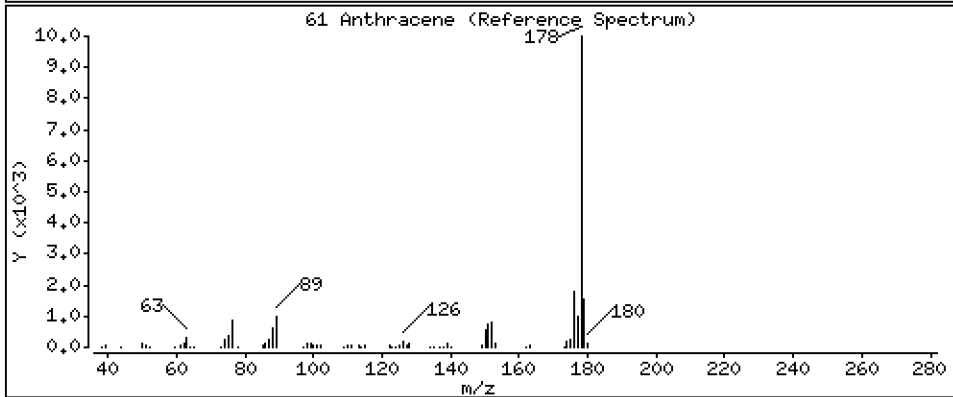
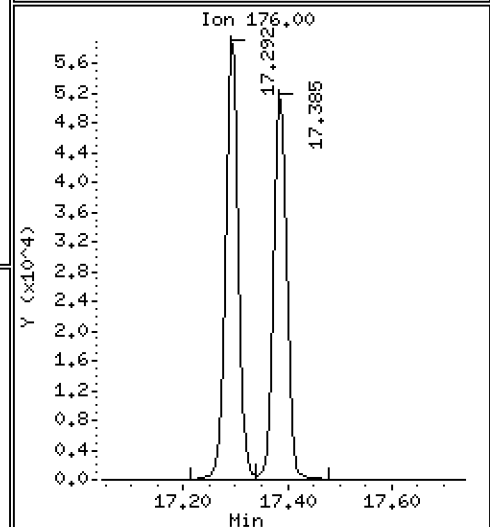
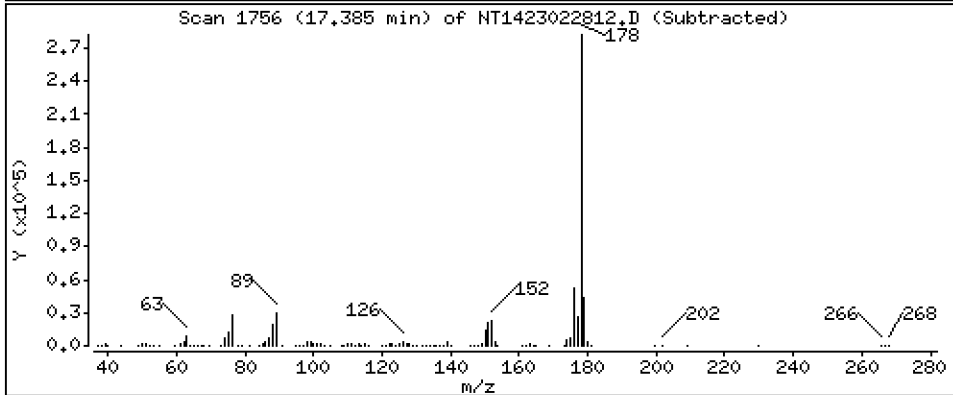
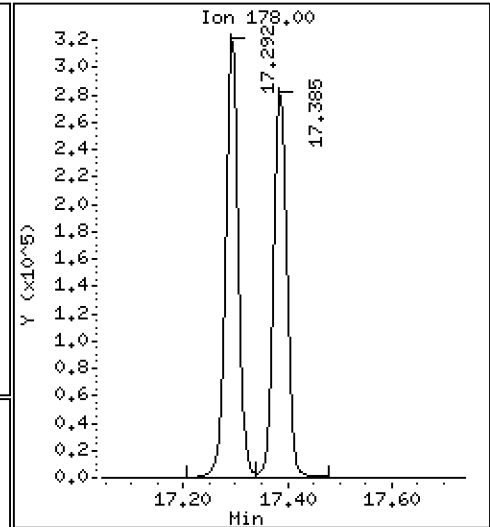
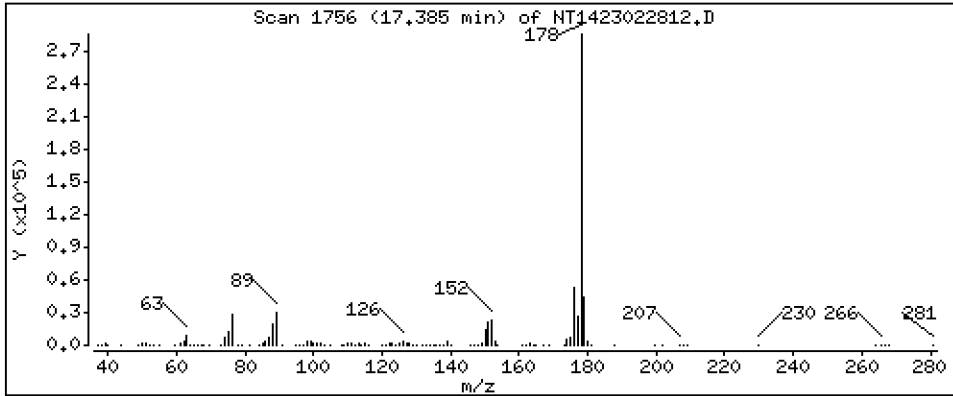
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,224 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

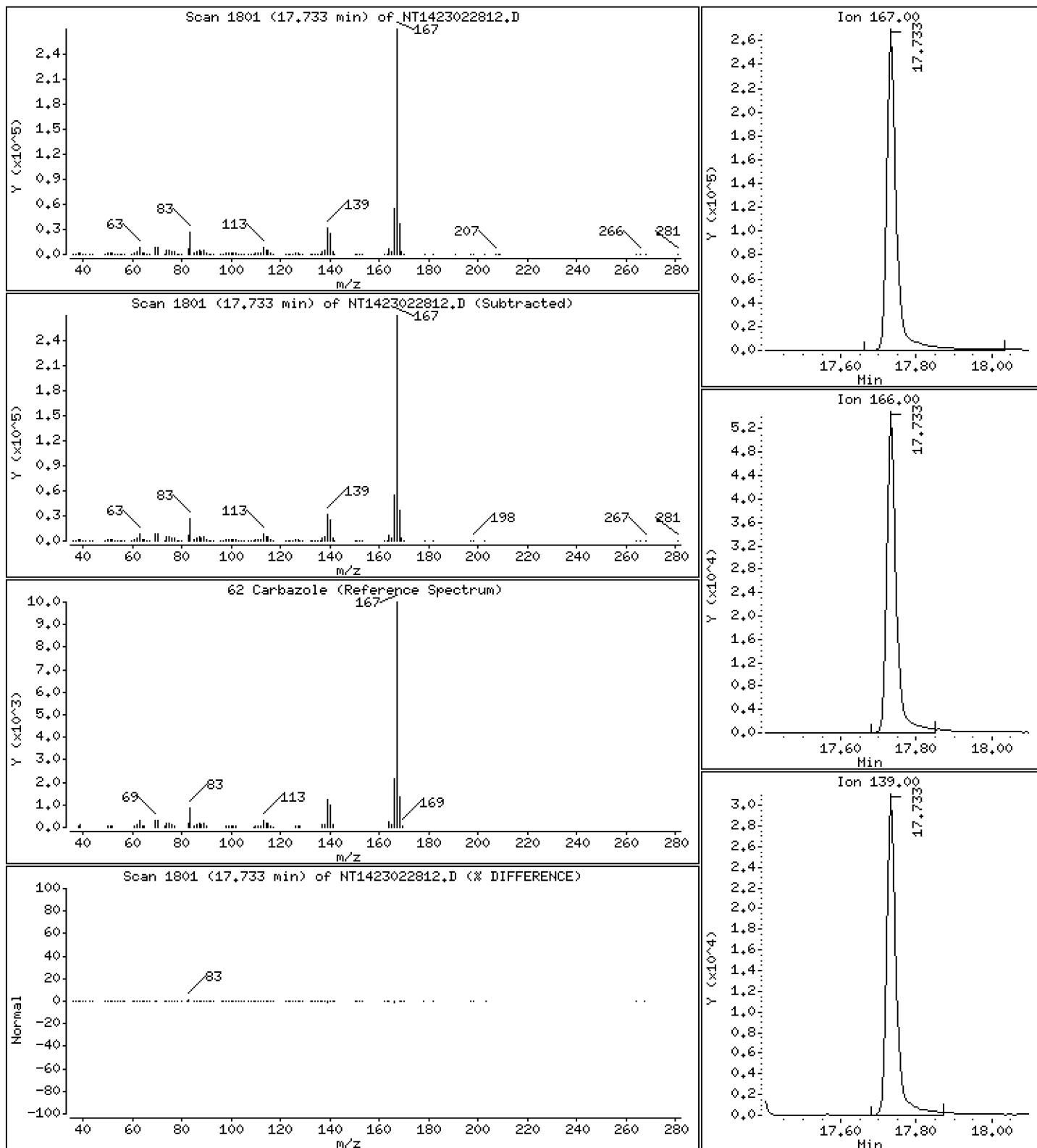
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,776 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

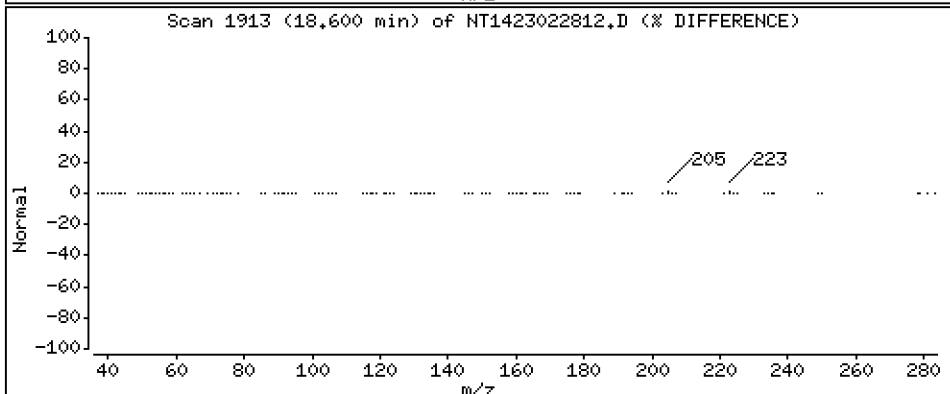
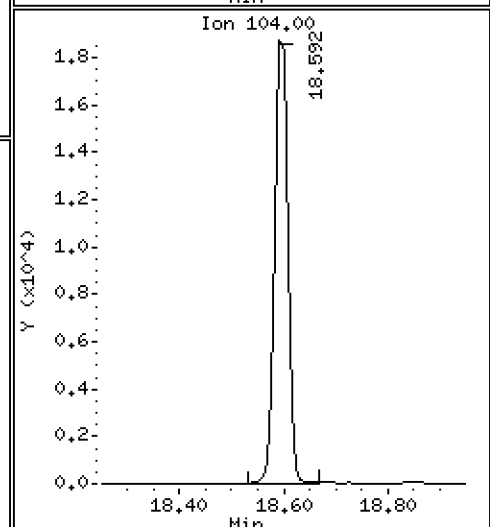
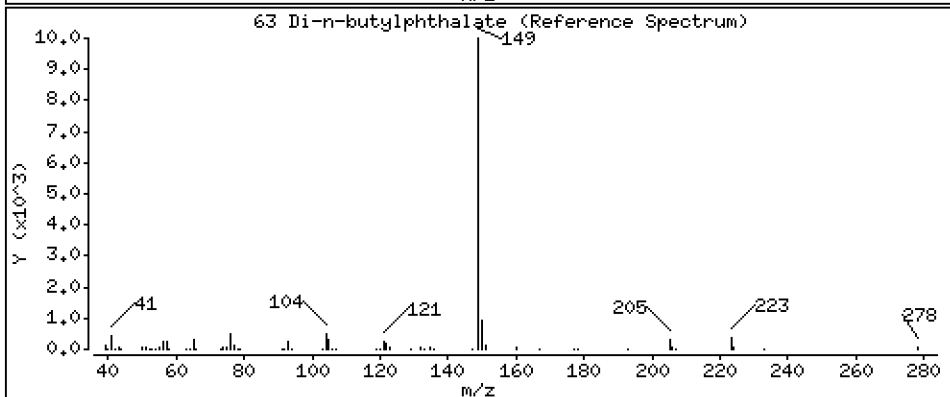
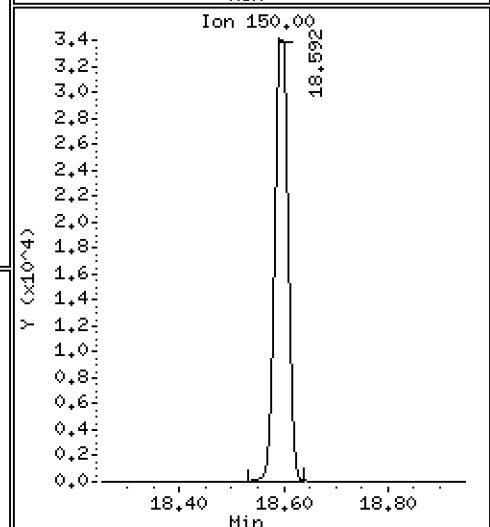
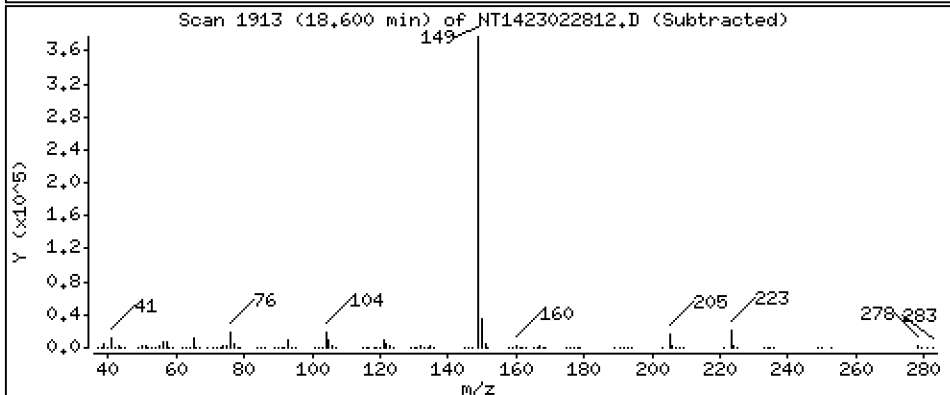
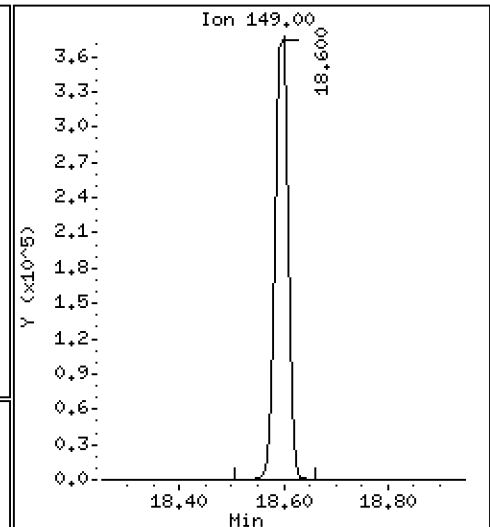
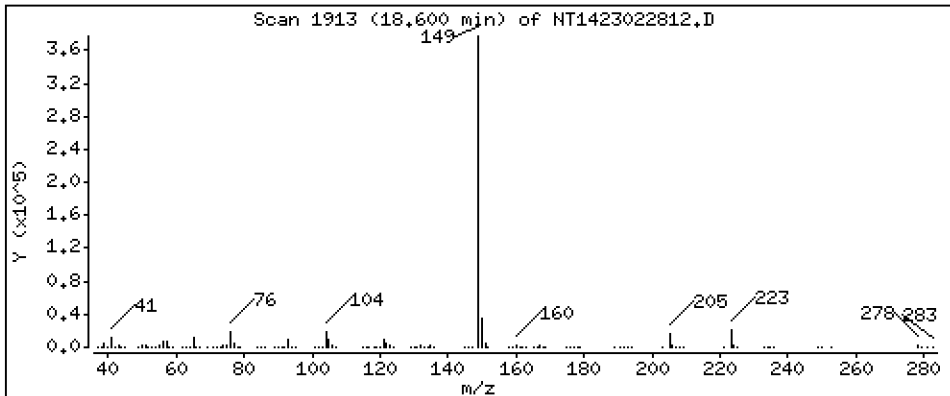
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,819 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

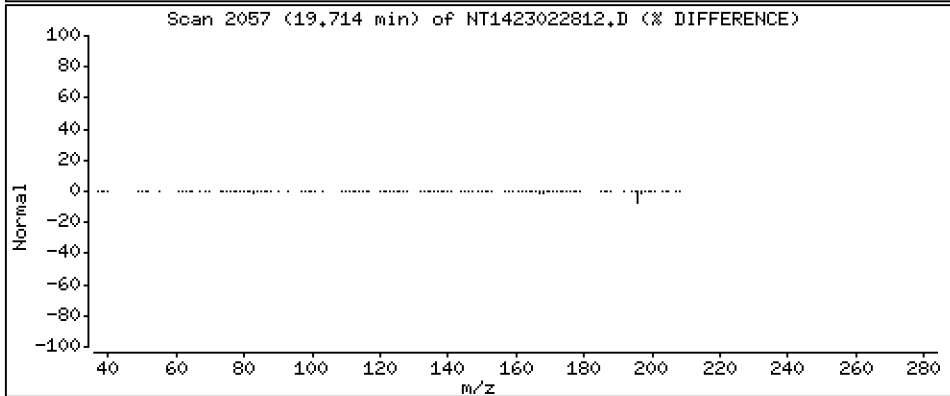
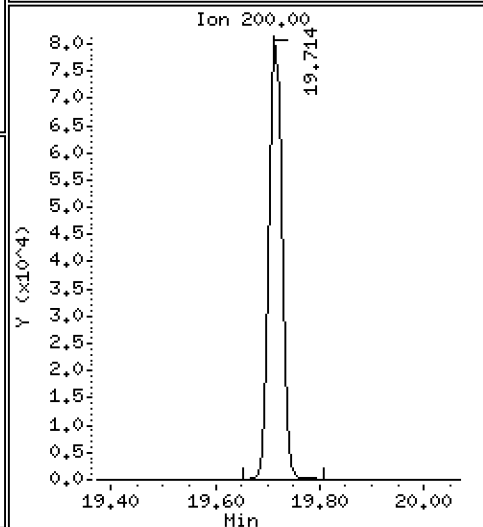
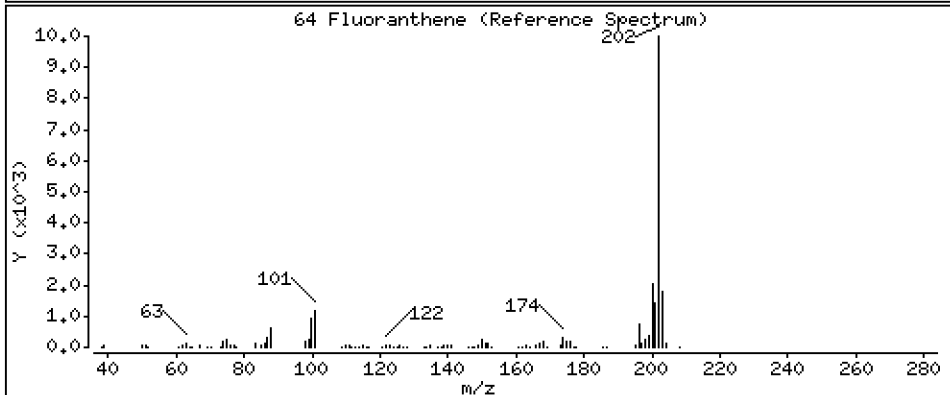
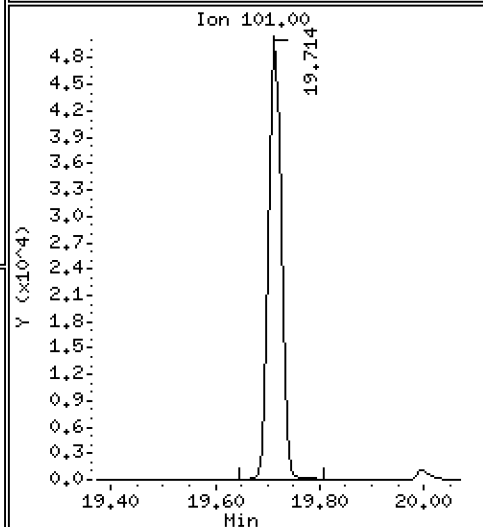
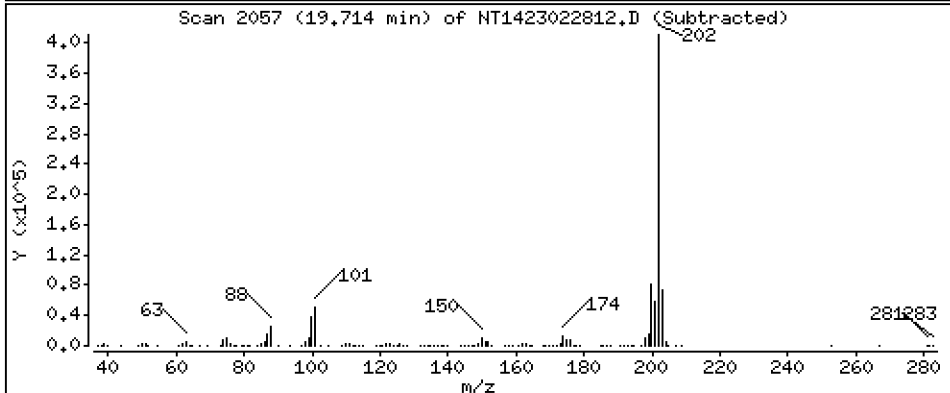
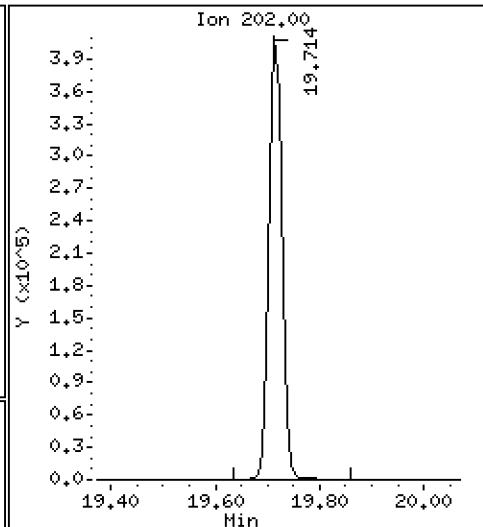
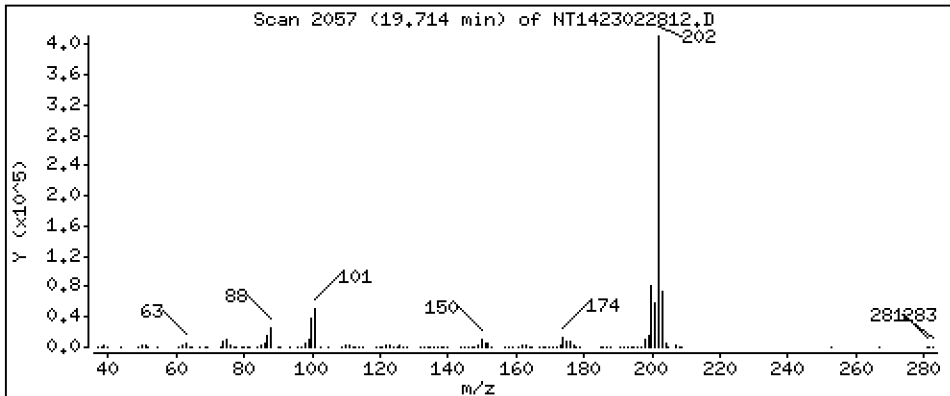
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 5,104 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

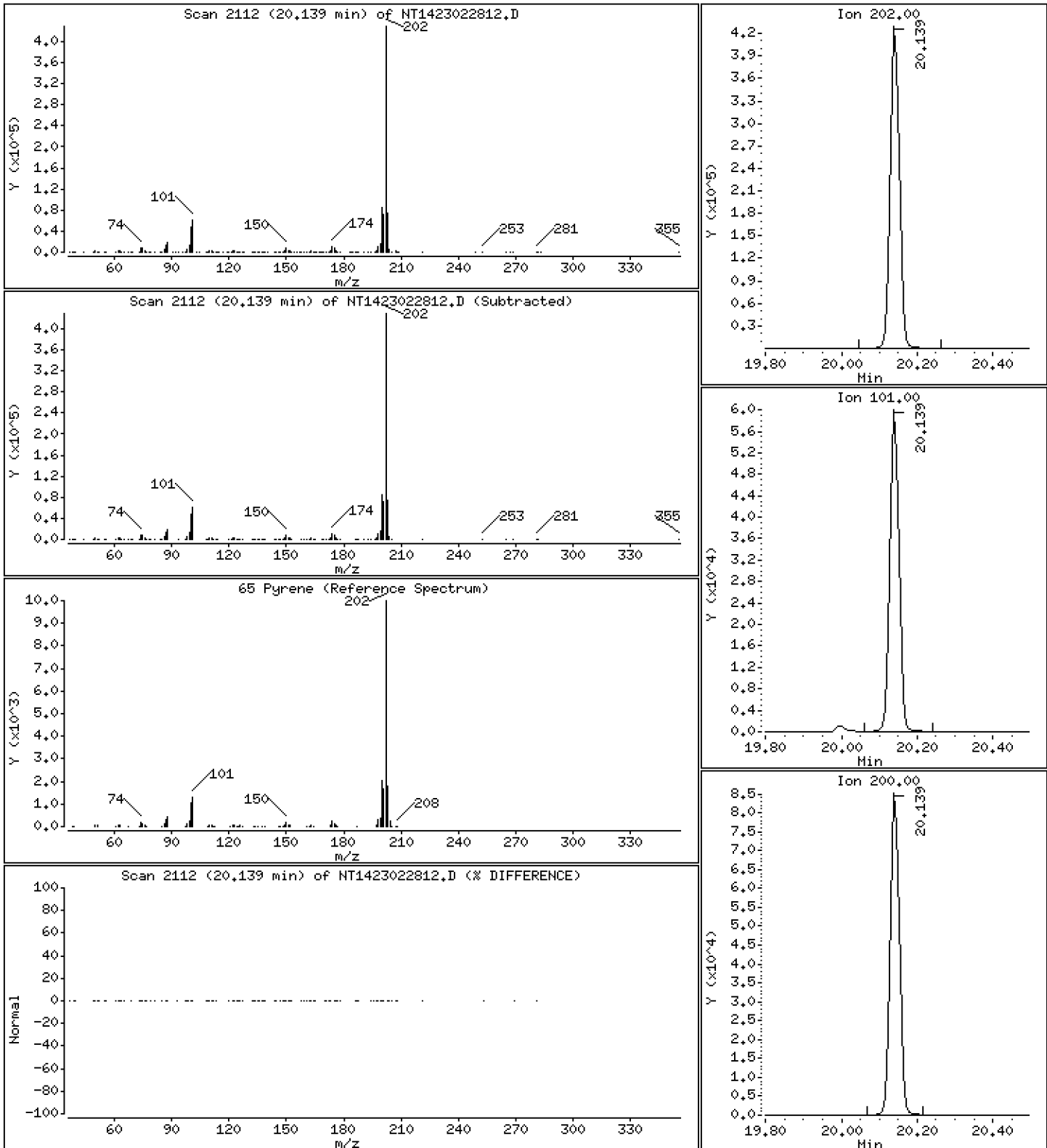
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,957 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

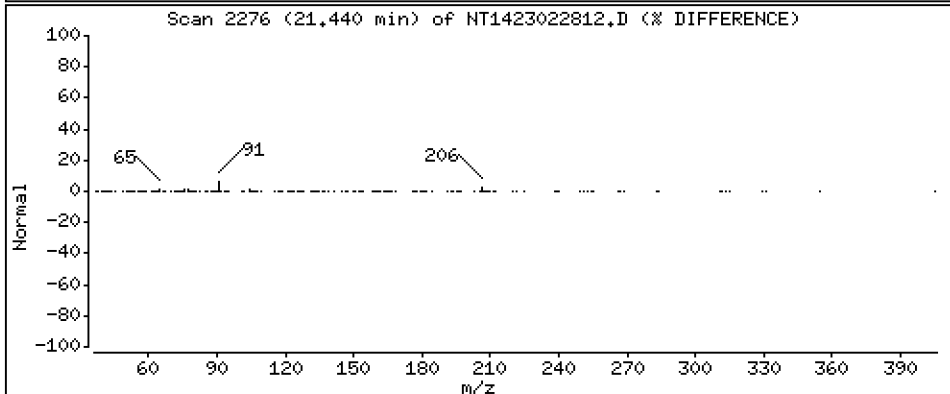
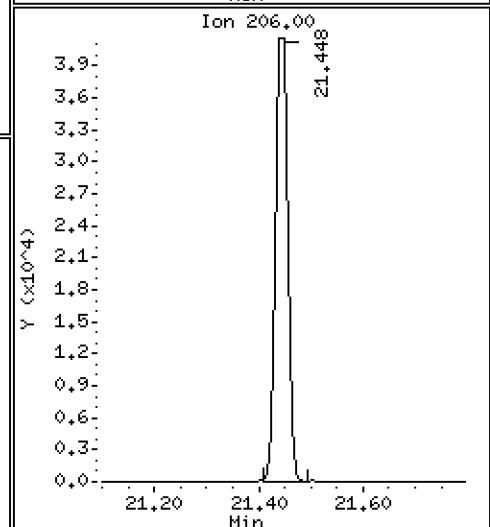
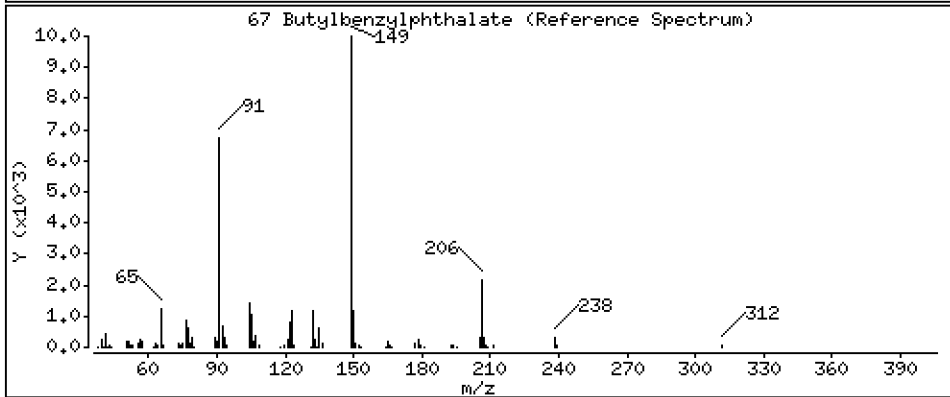
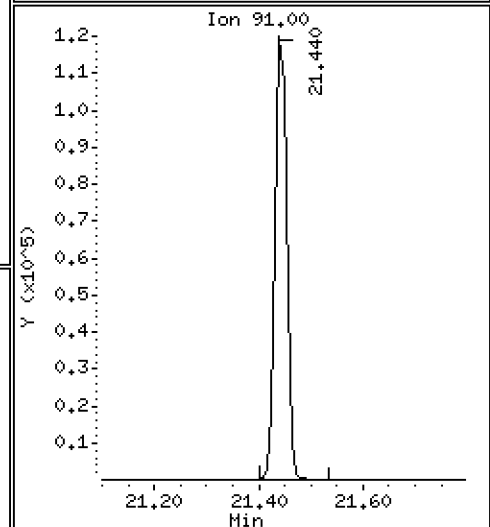
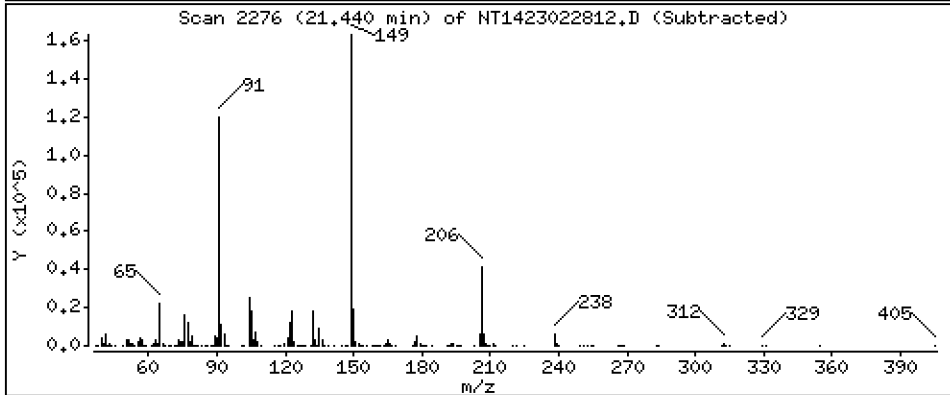
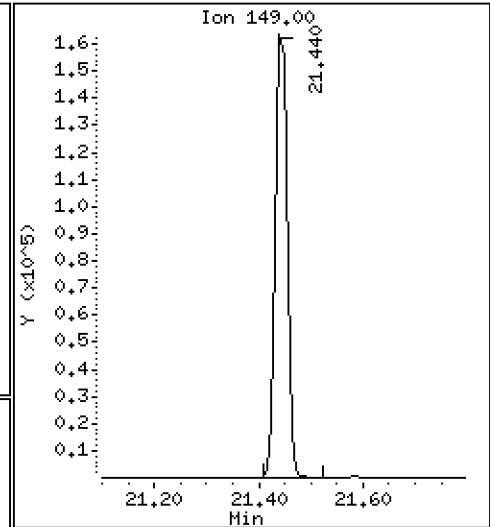
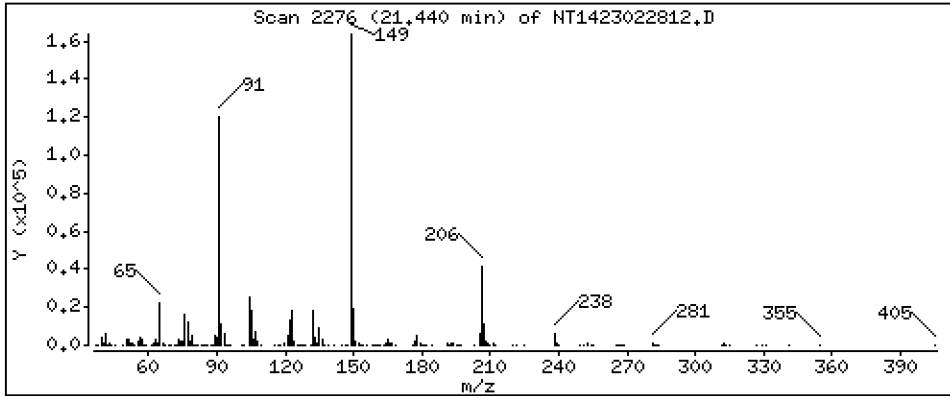
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,965 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

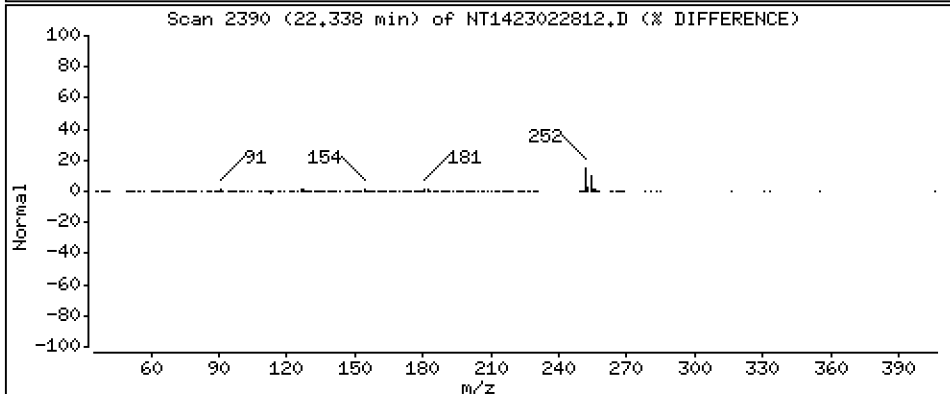
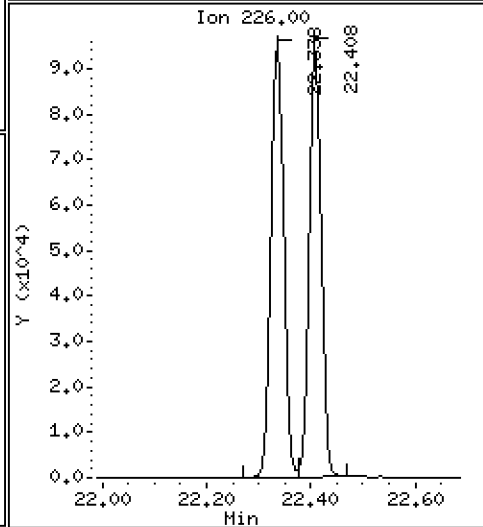
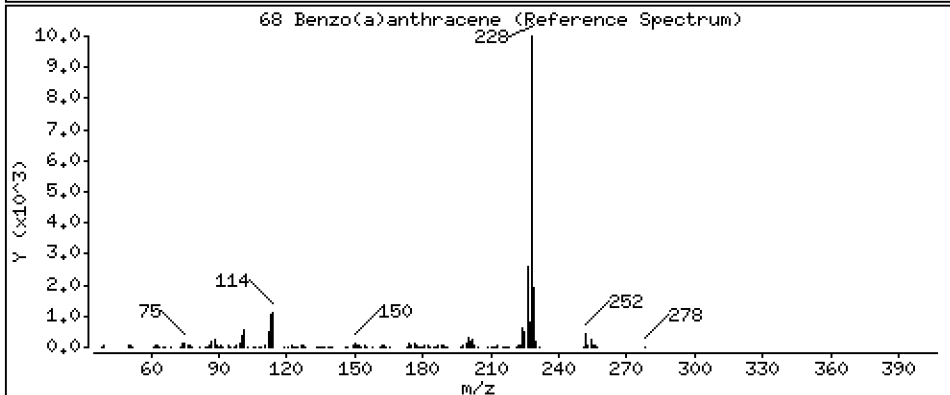
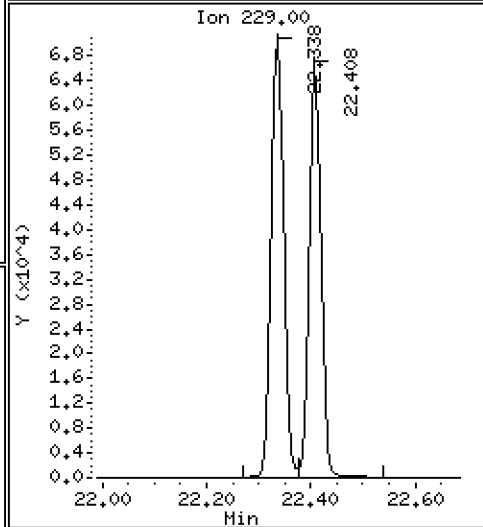
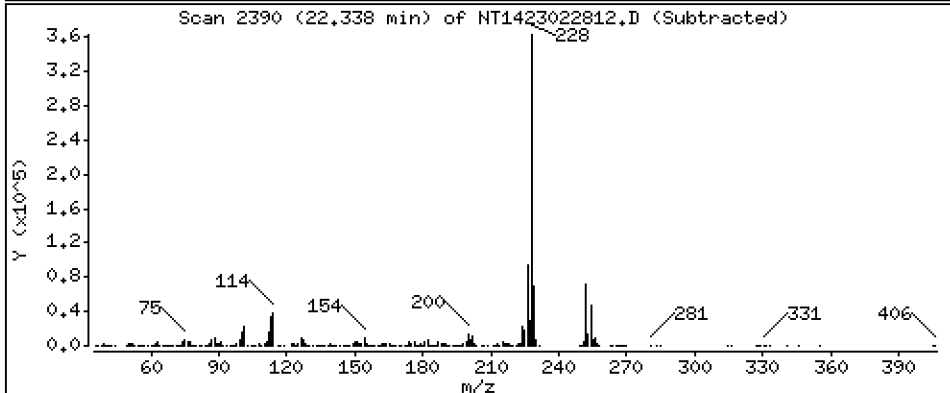
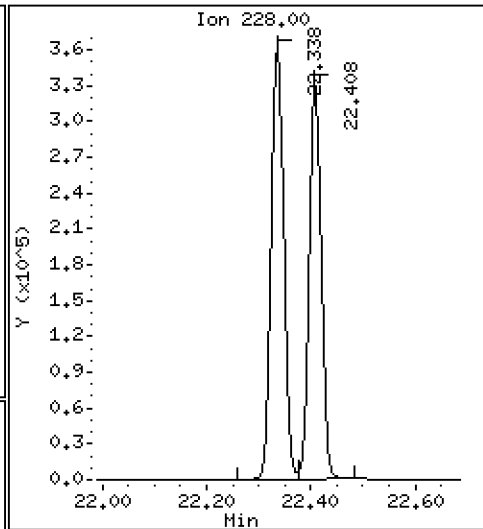
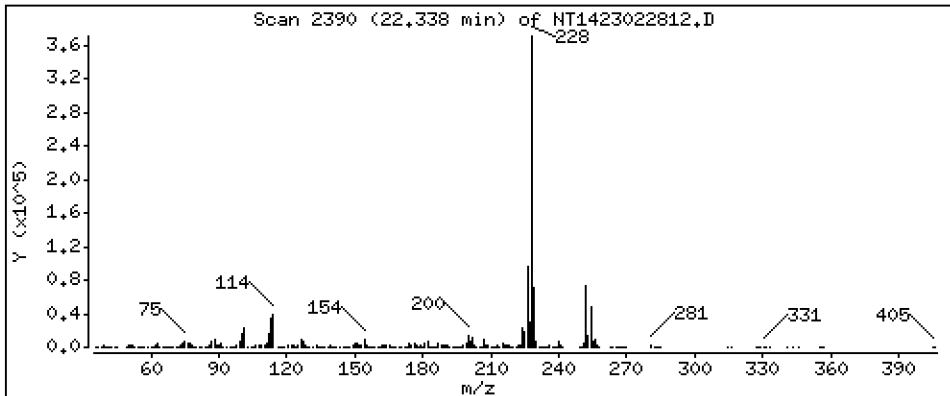
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,917 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

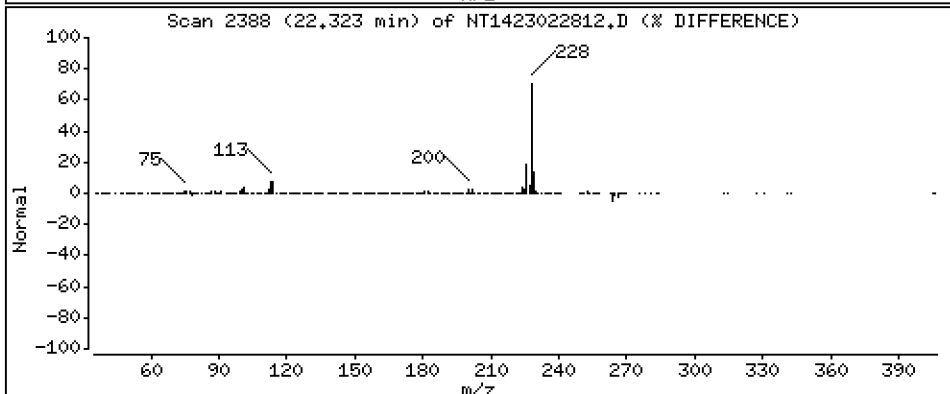
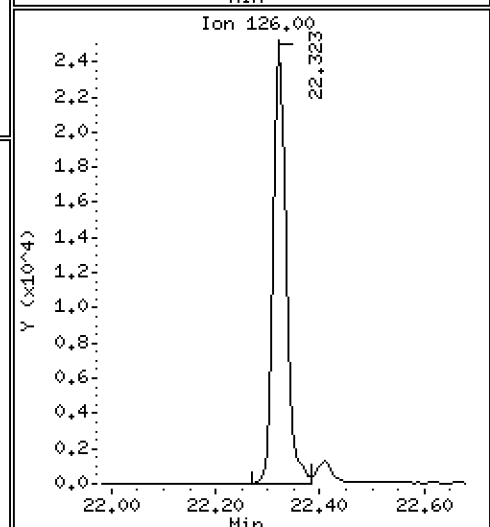
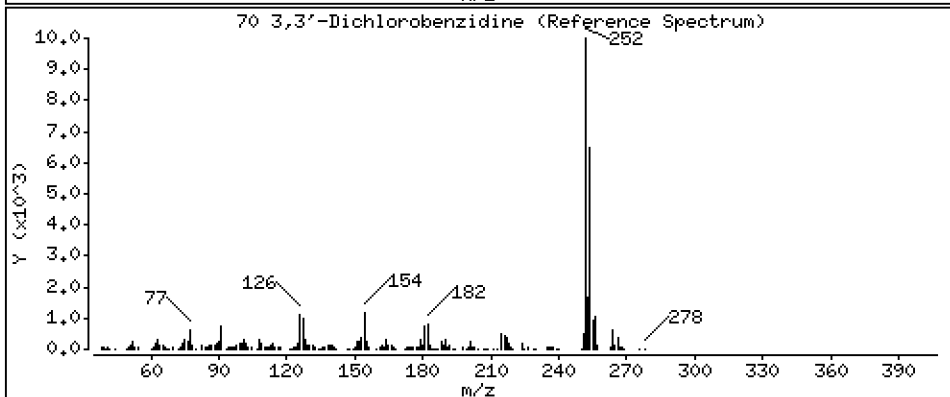
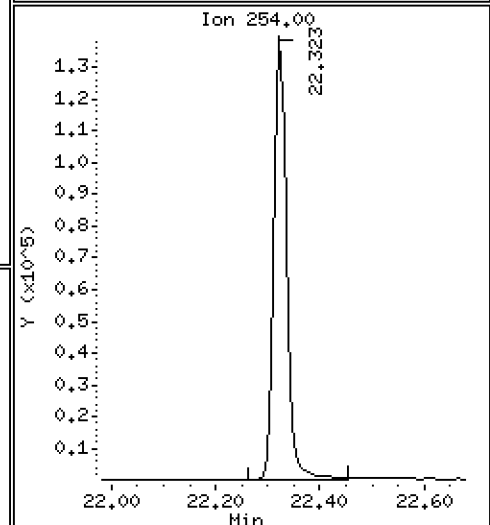
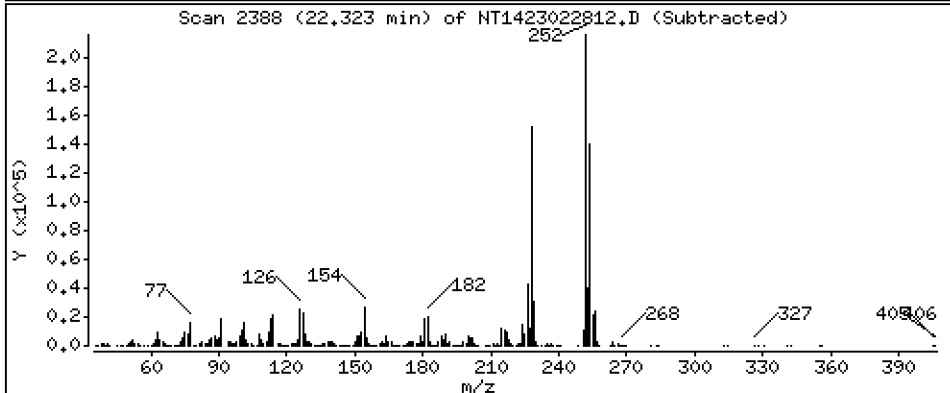
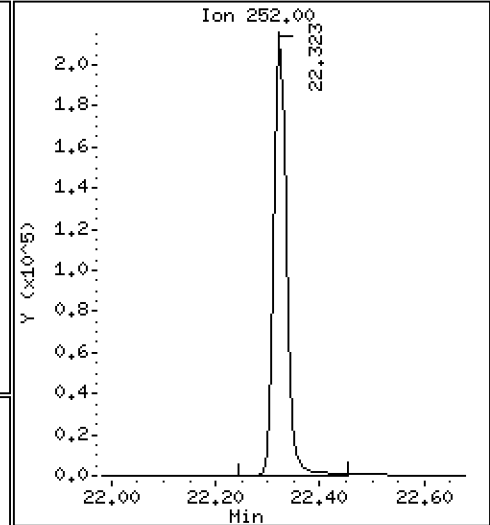
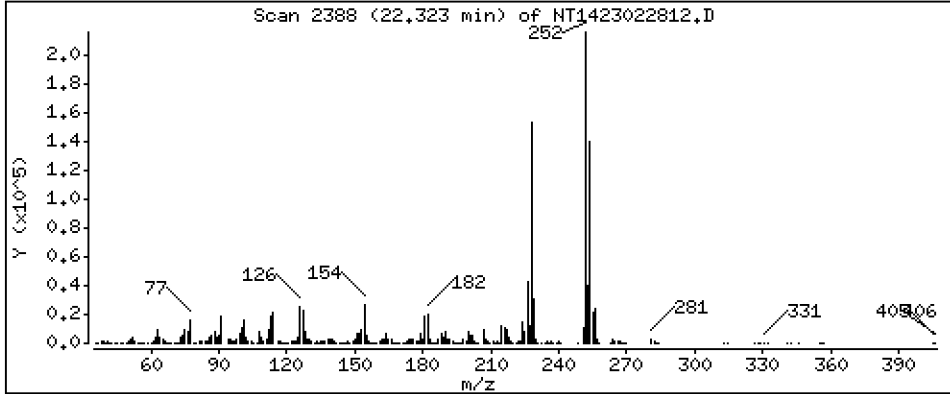
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 10,29 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

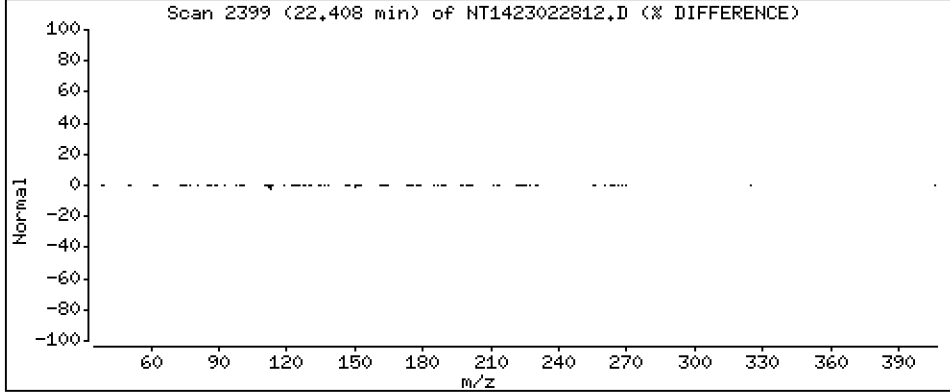
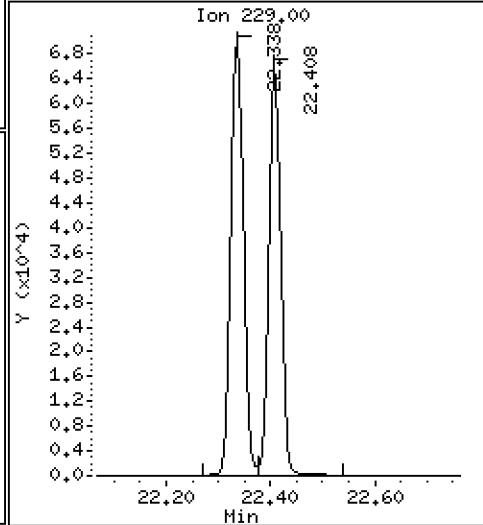
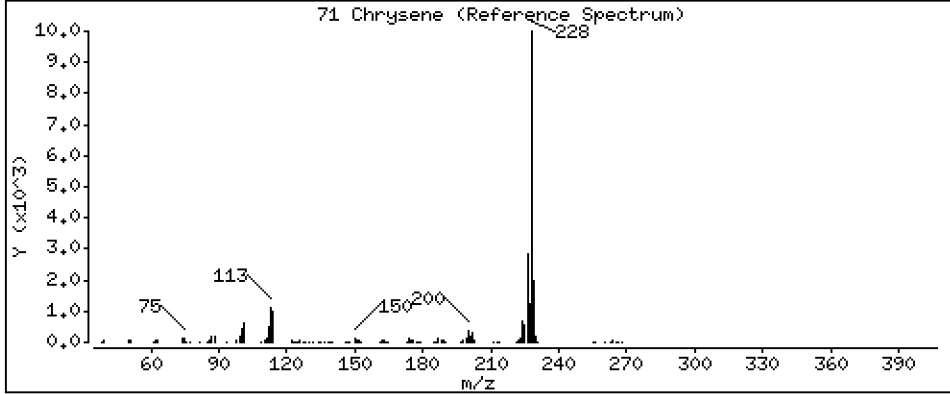
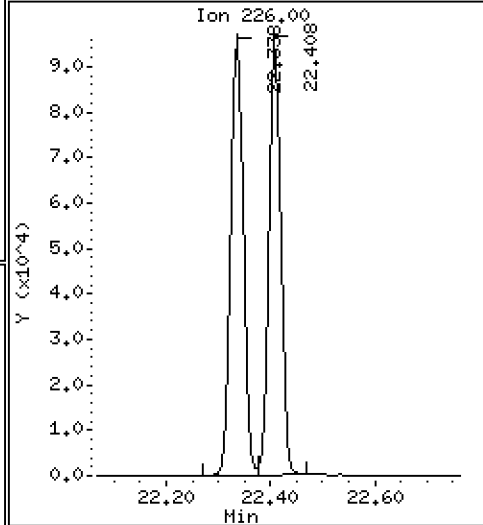
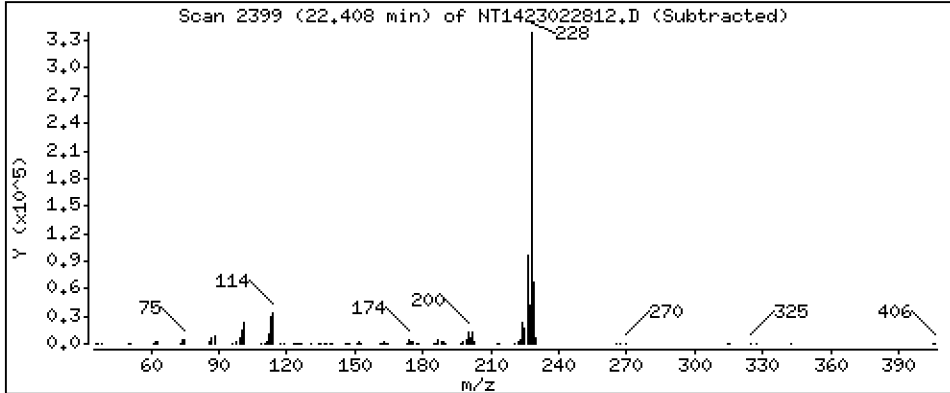
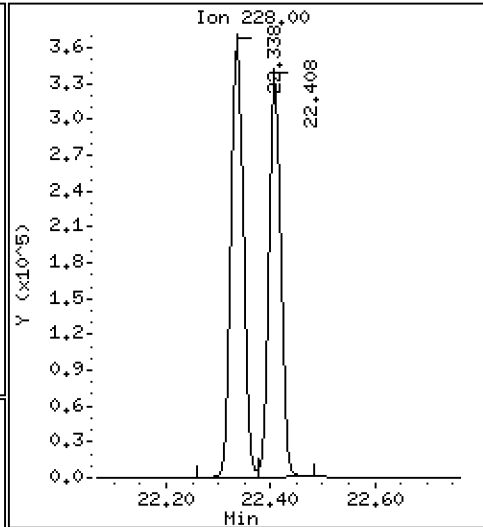
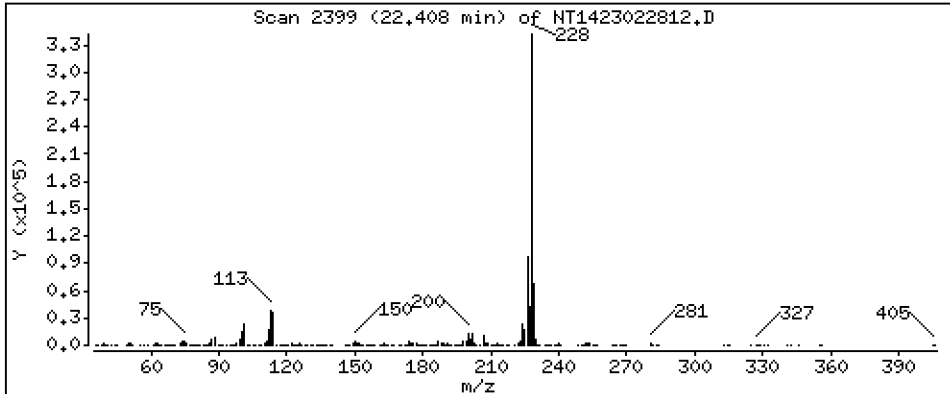
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,556 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

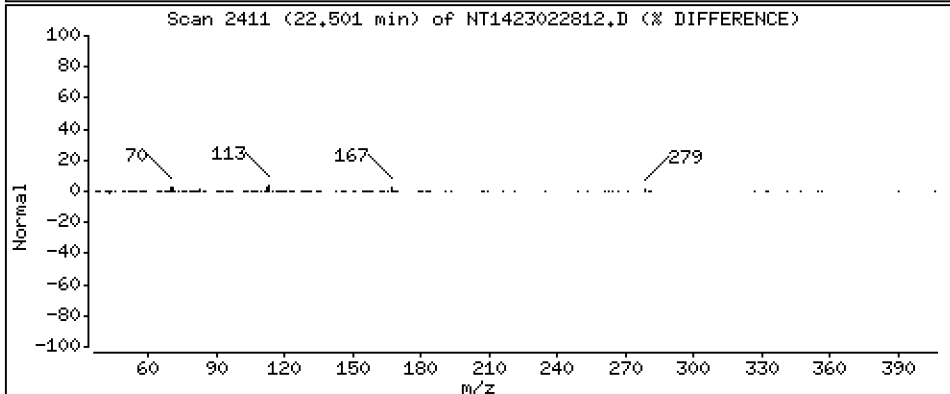
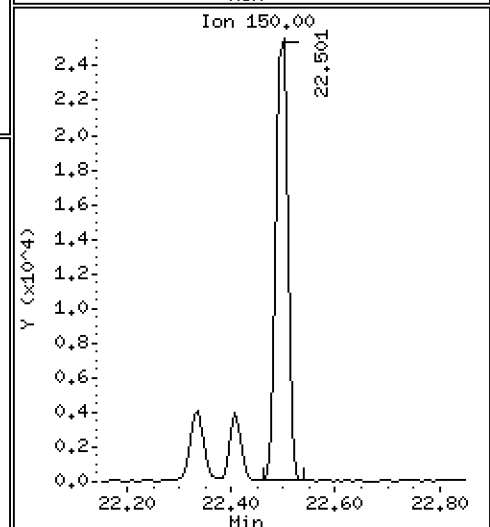
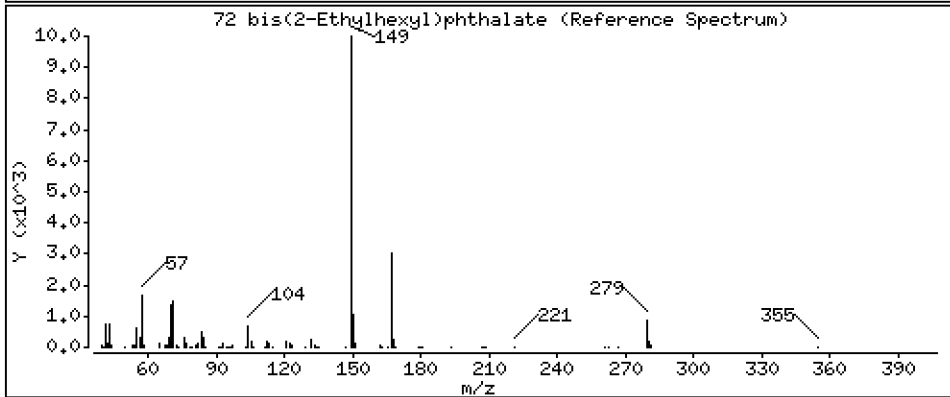
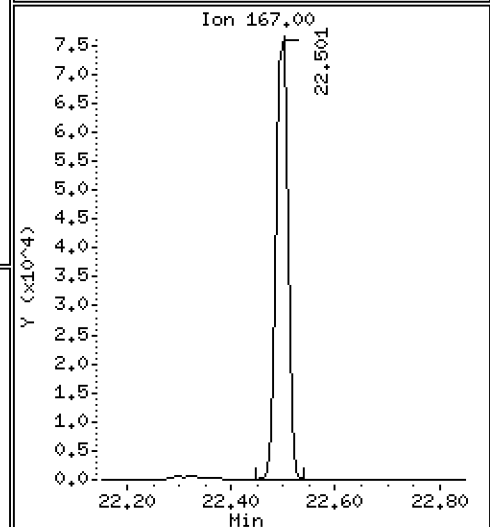
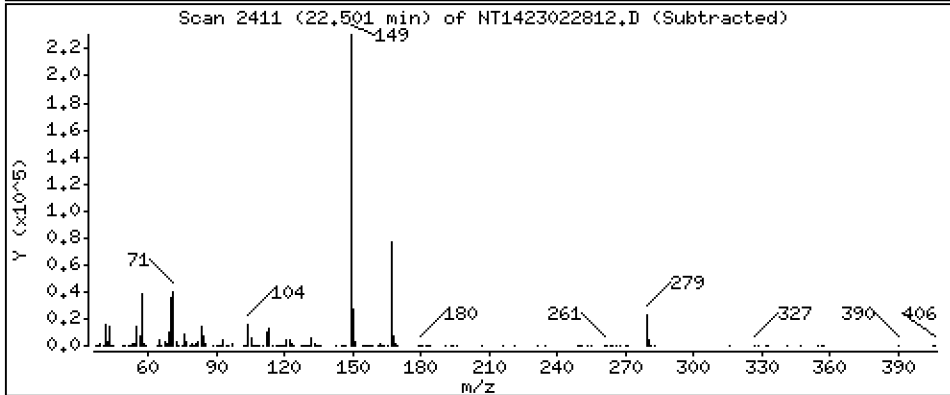
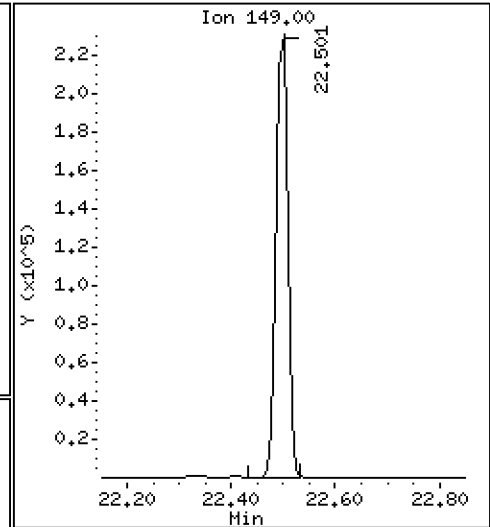
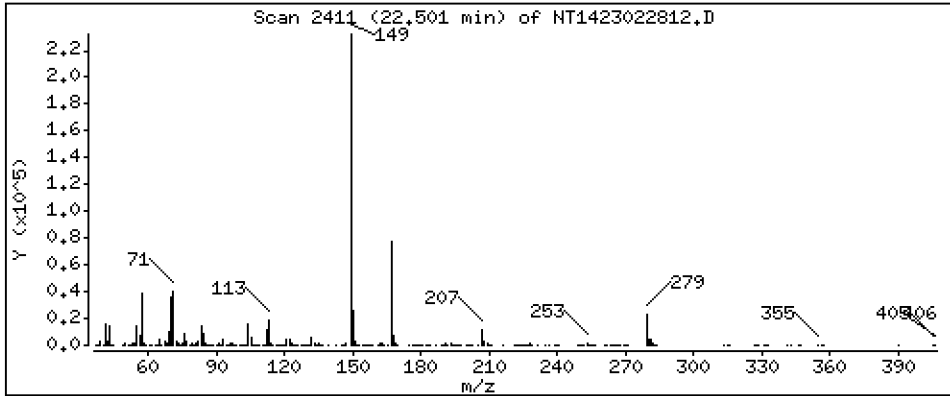
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,277 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

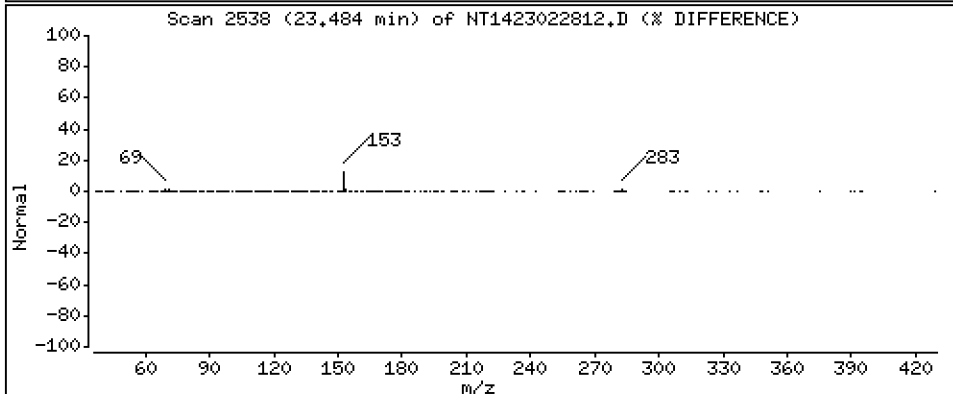
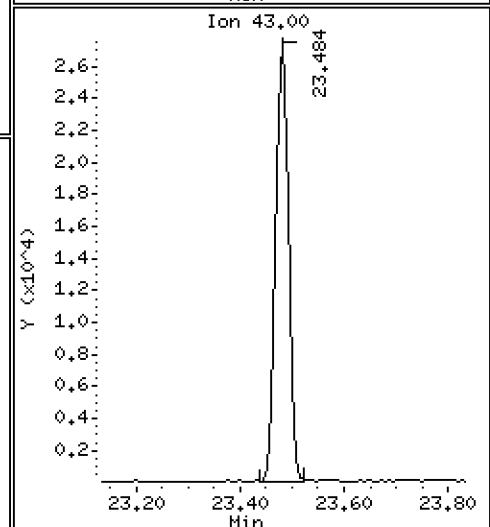
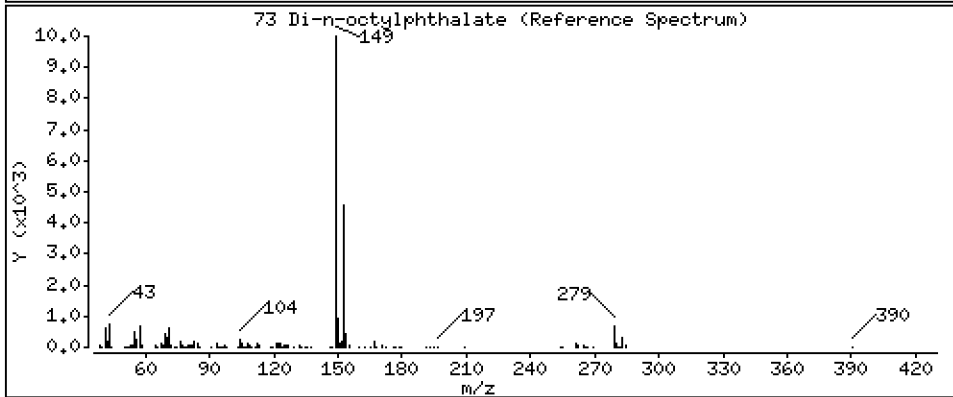
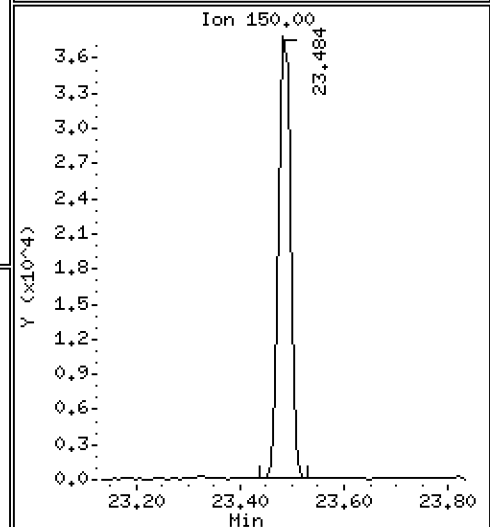
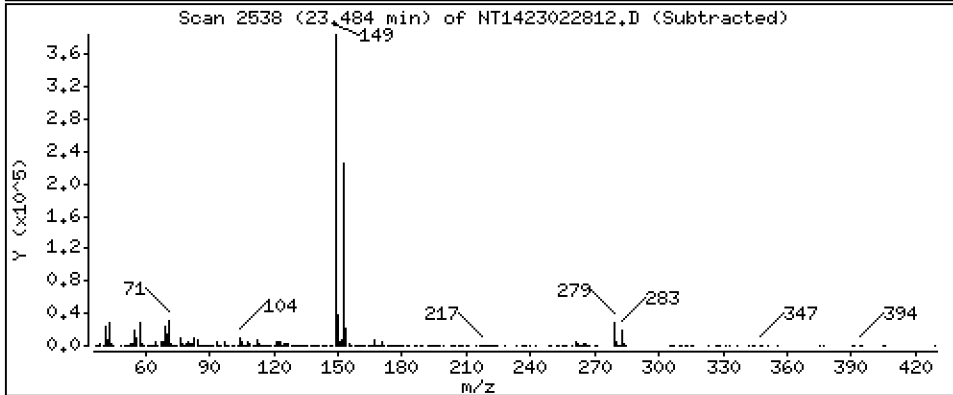
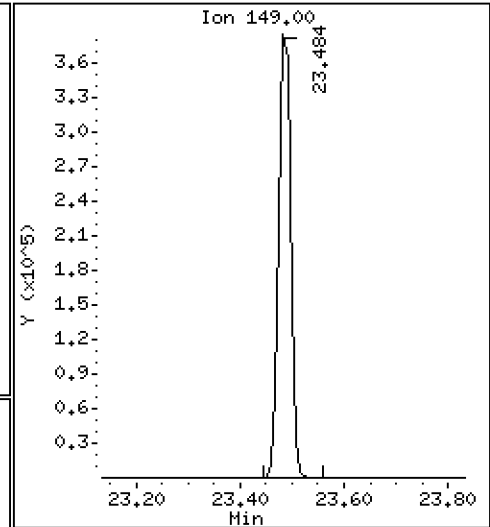
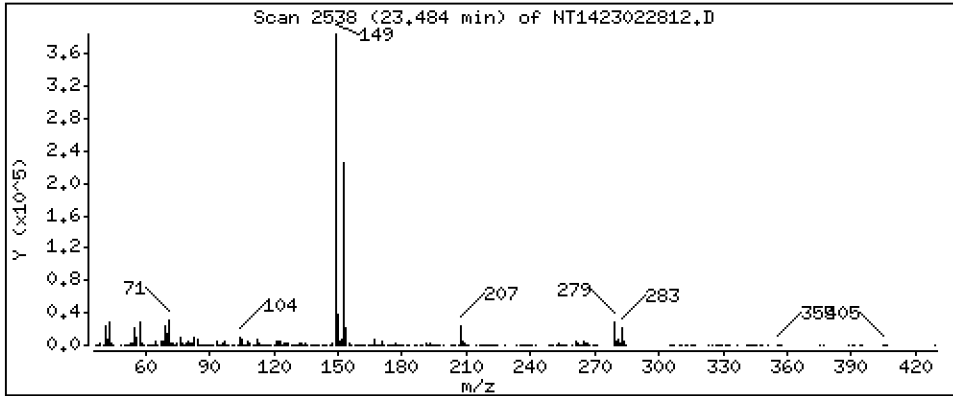
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,183 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

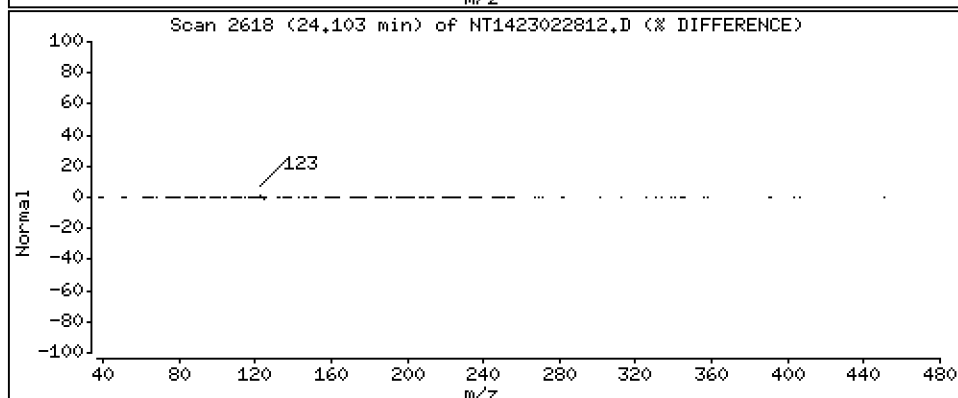
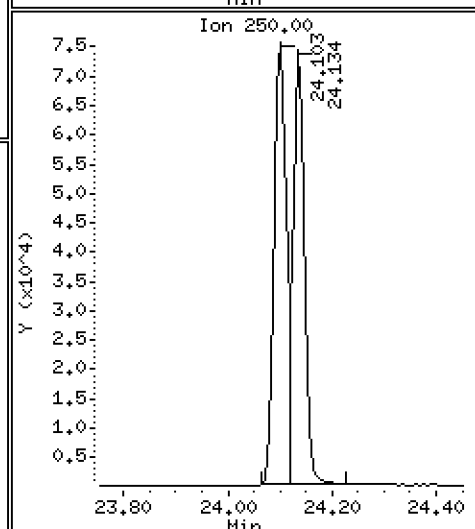
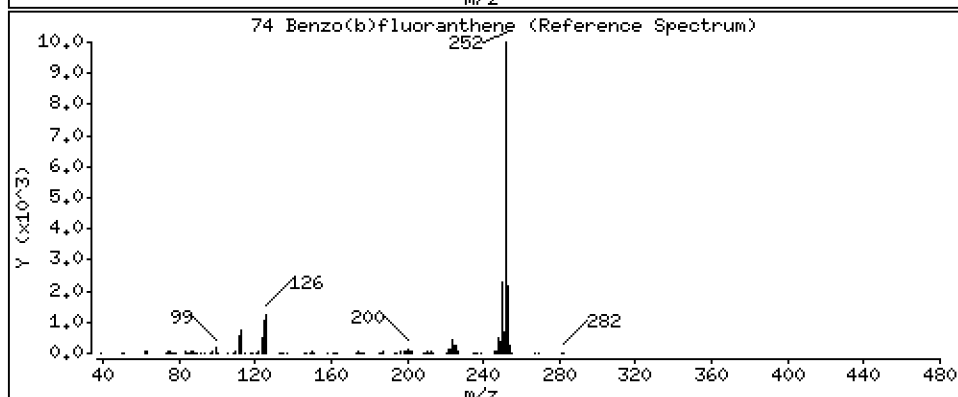
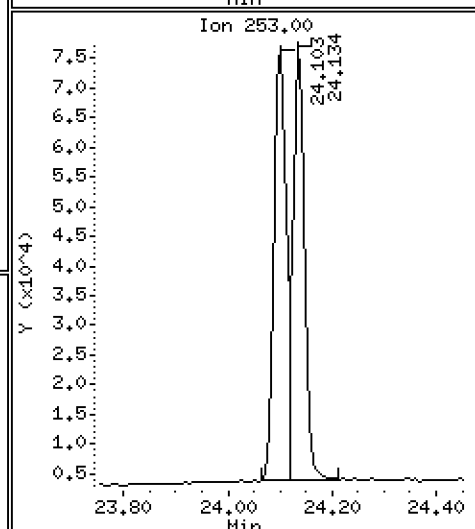
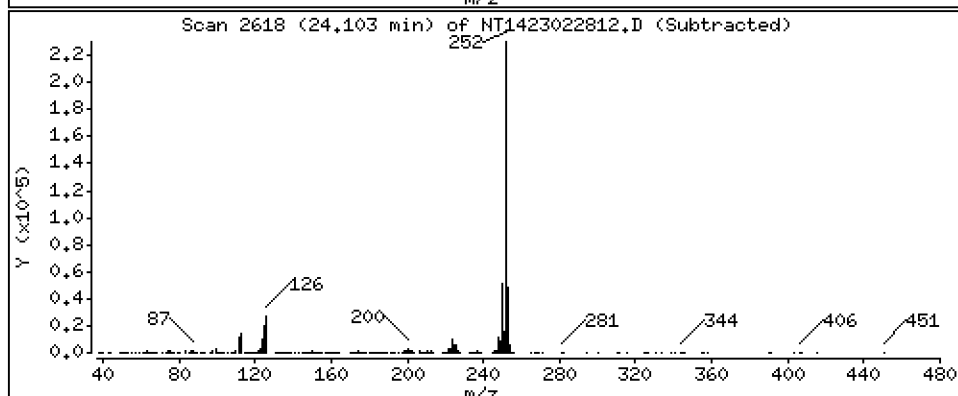
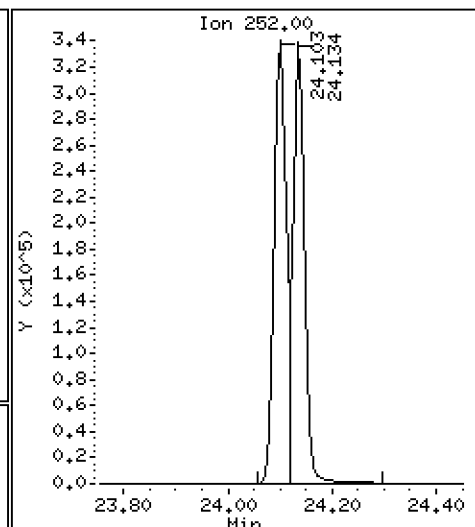
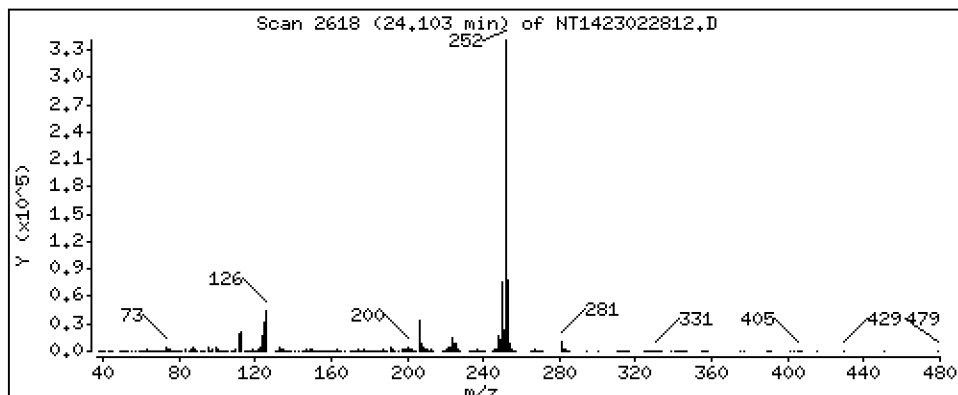
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,872 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

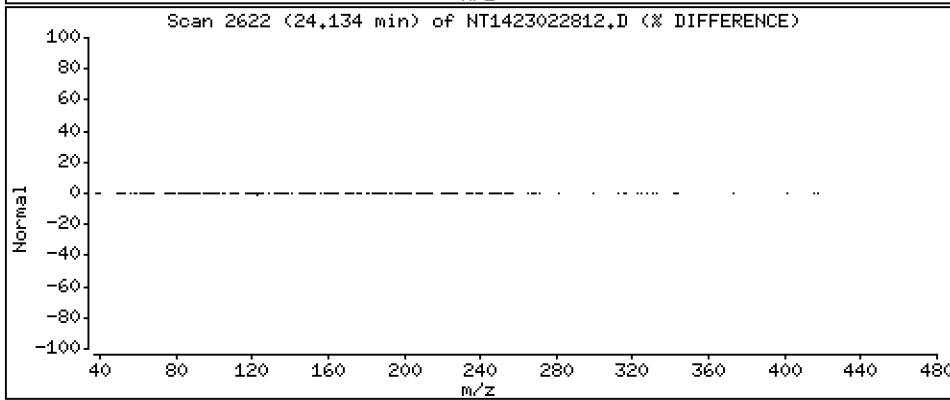
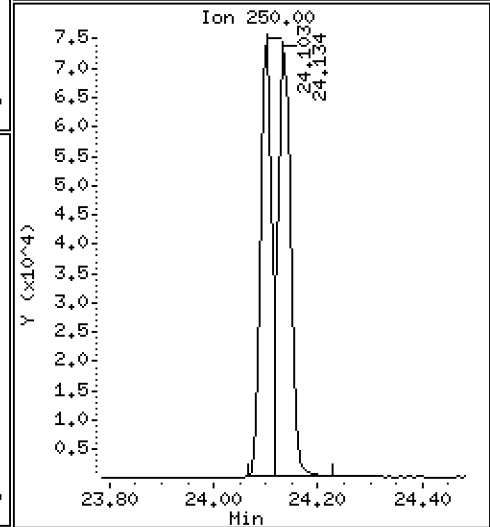
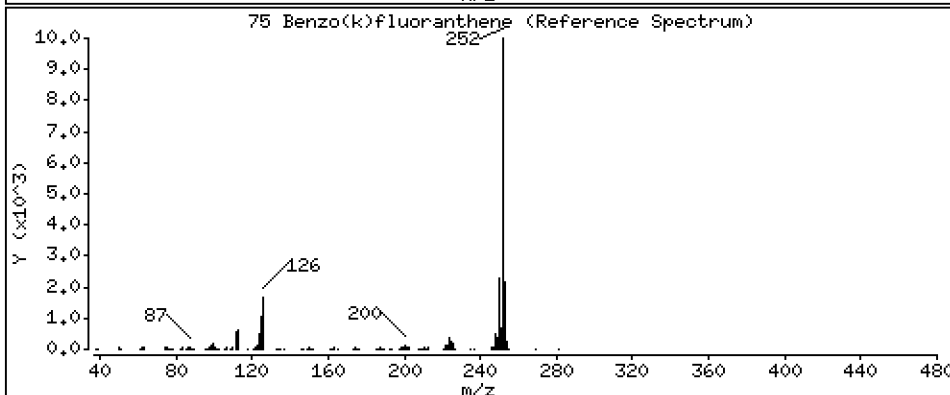
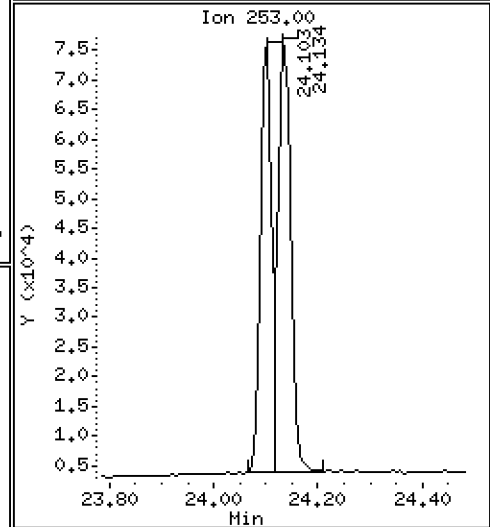
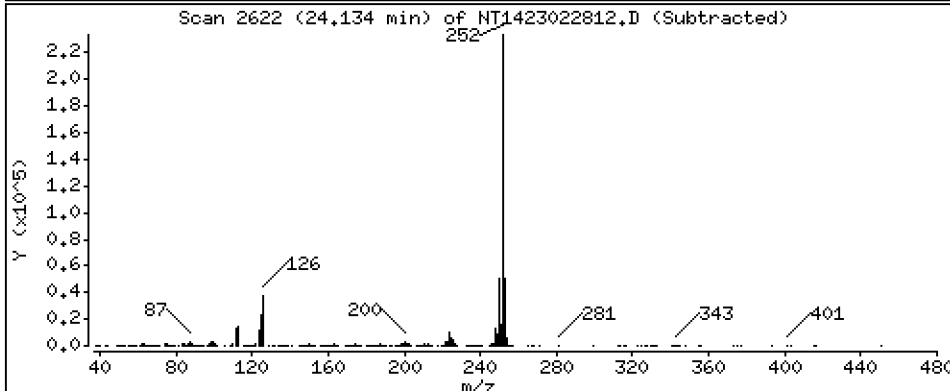
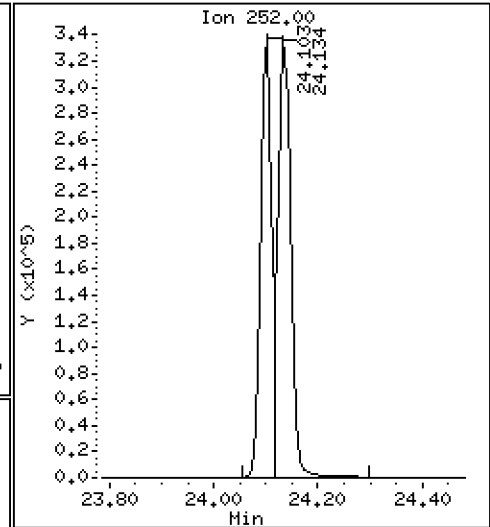
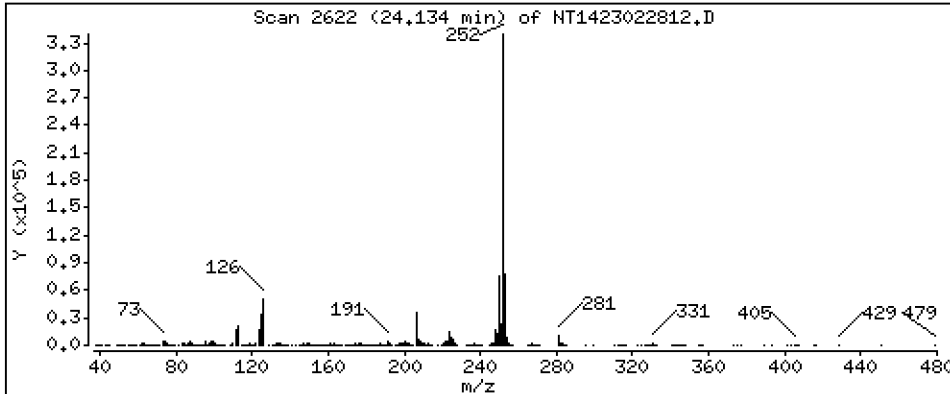
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,663 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

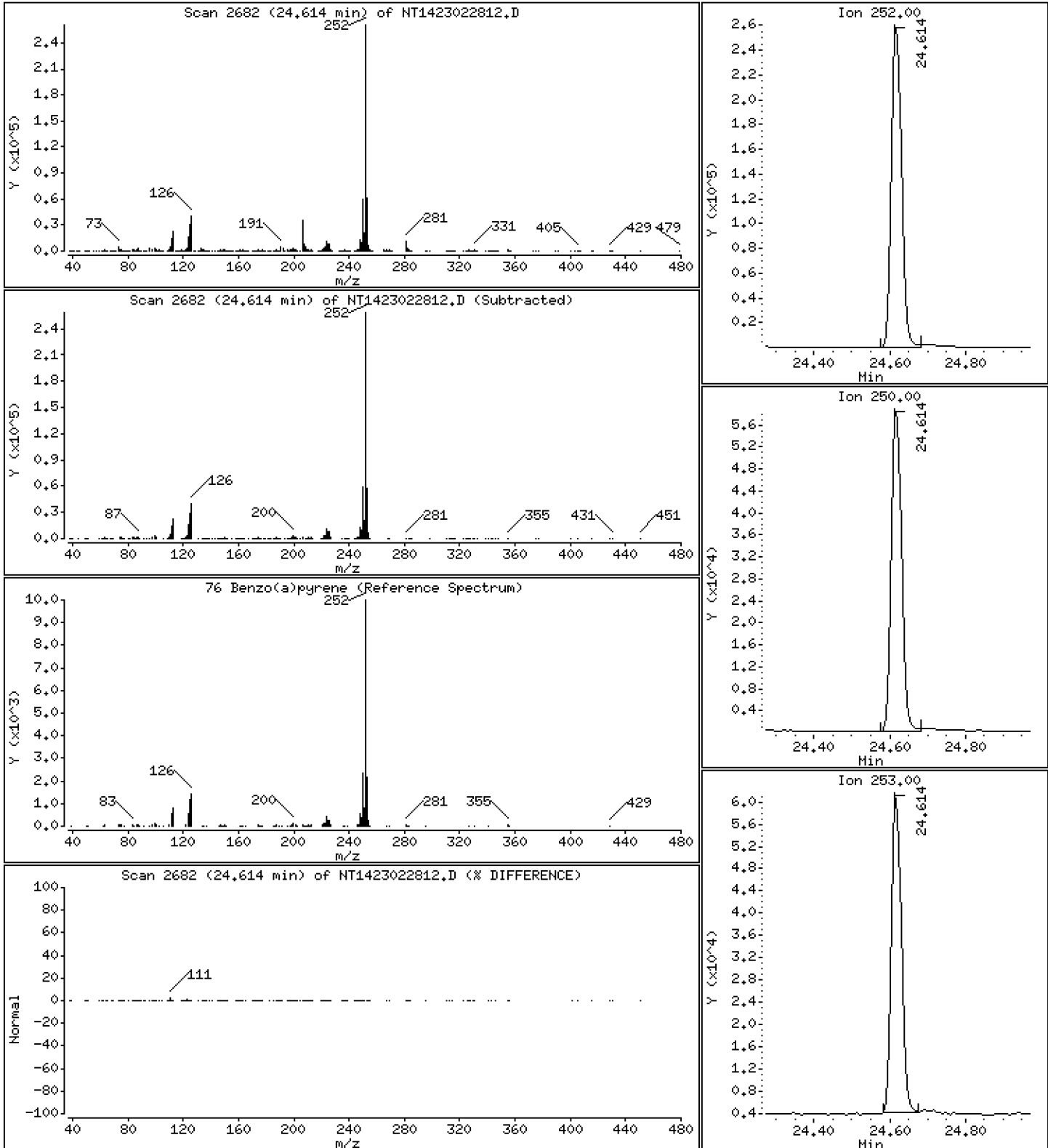
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,886 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

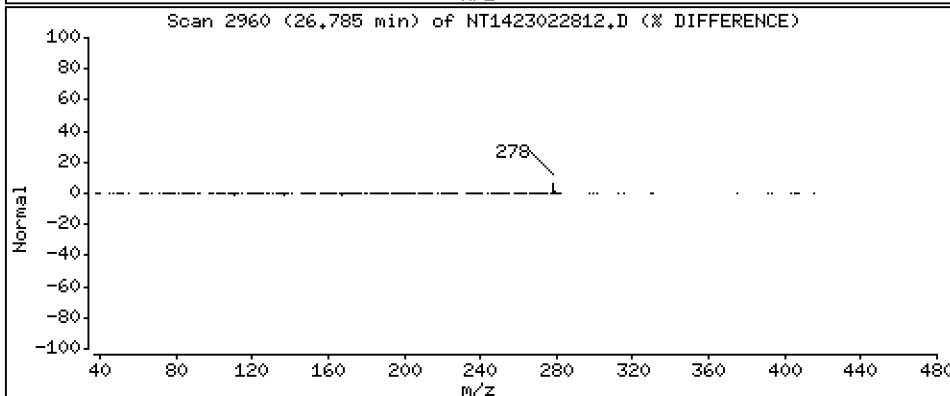
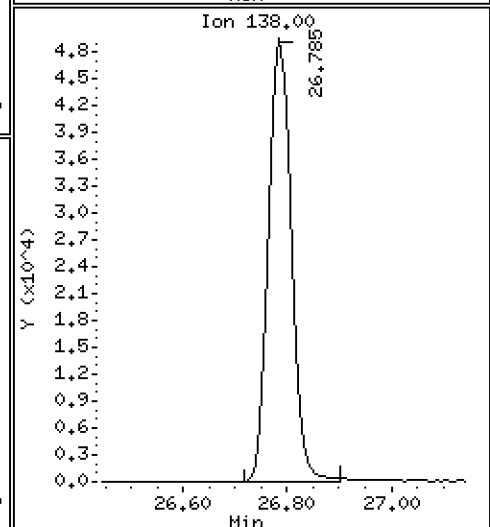
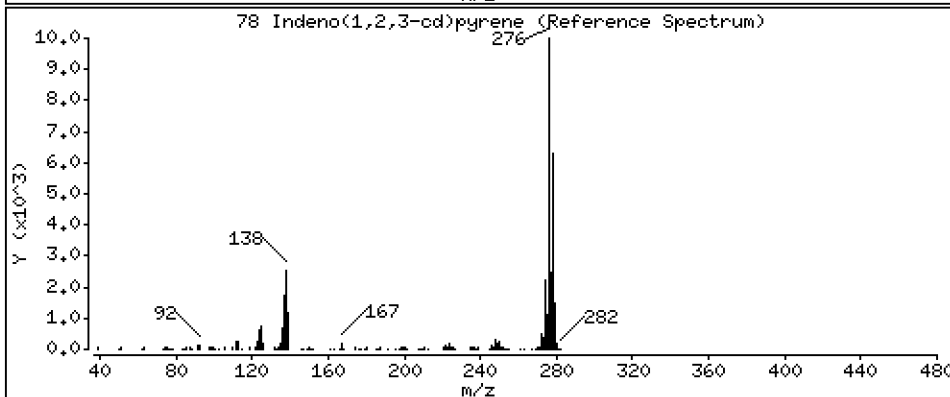
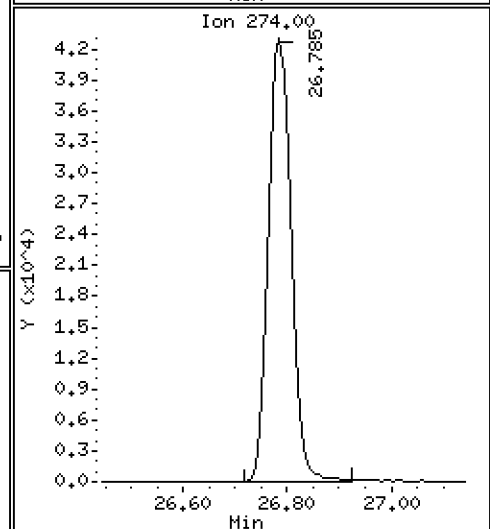
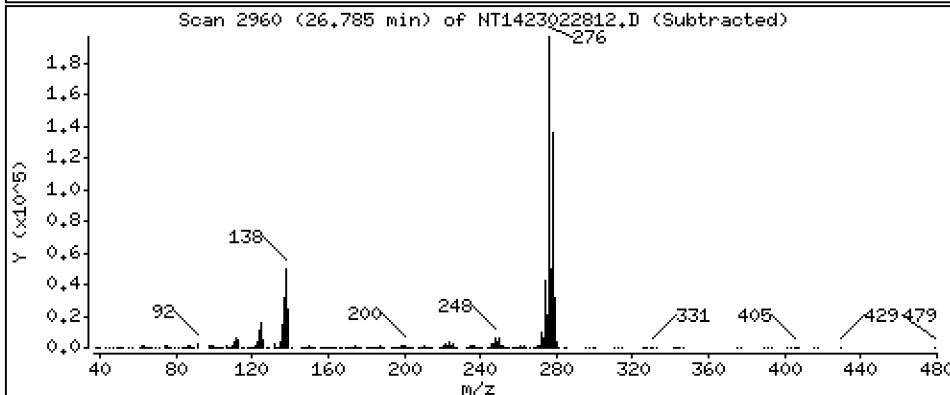
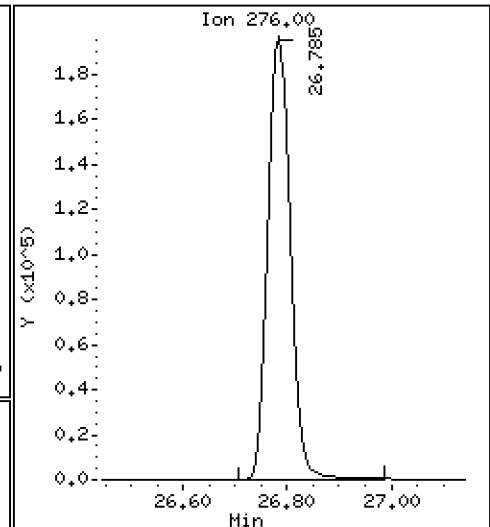
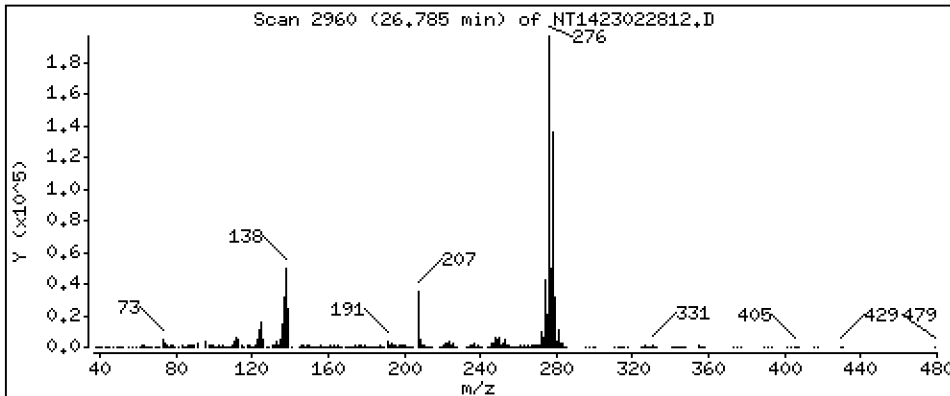
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 4,892 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

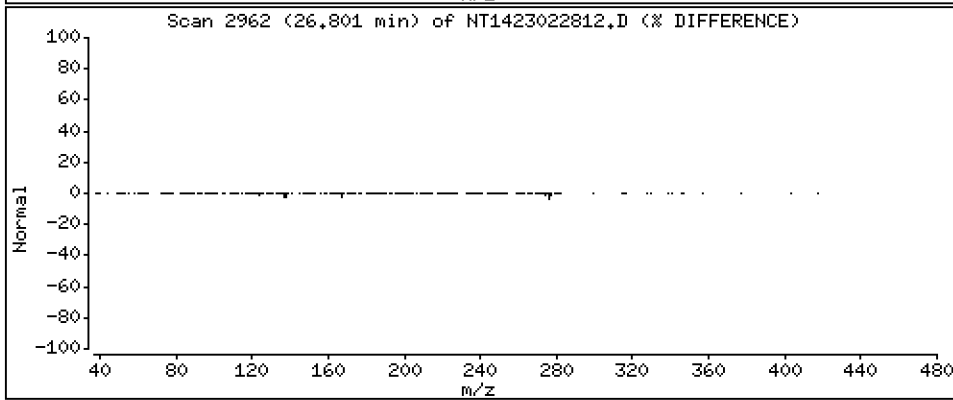
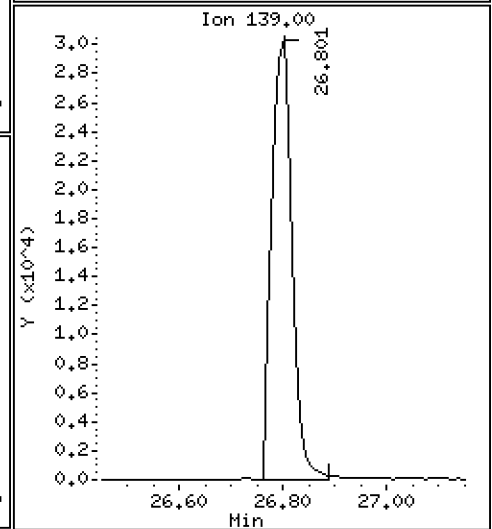
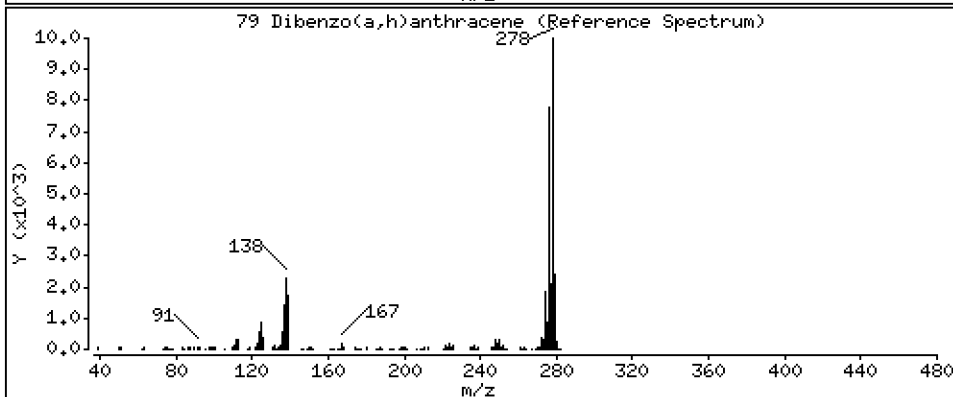
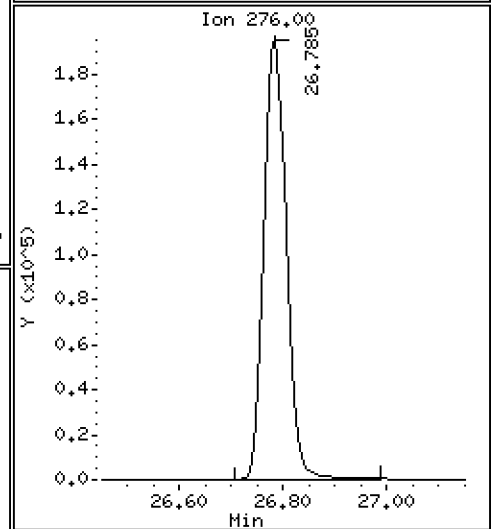
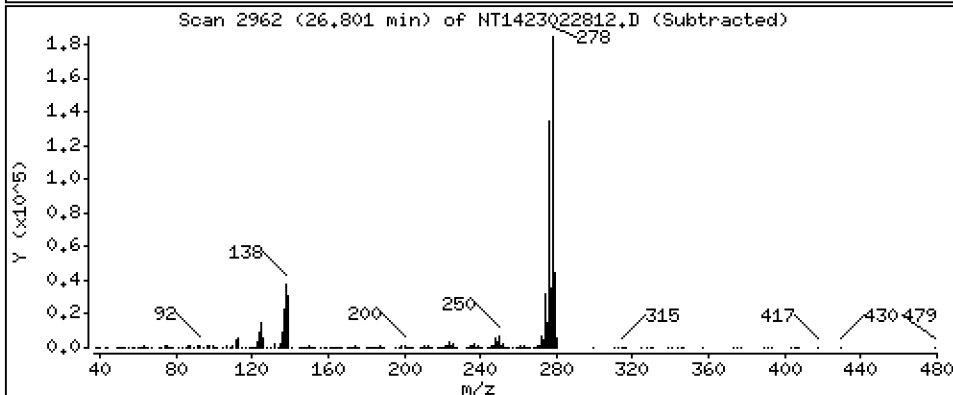
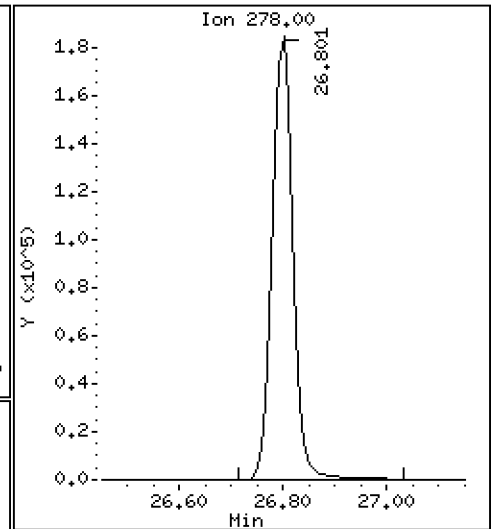
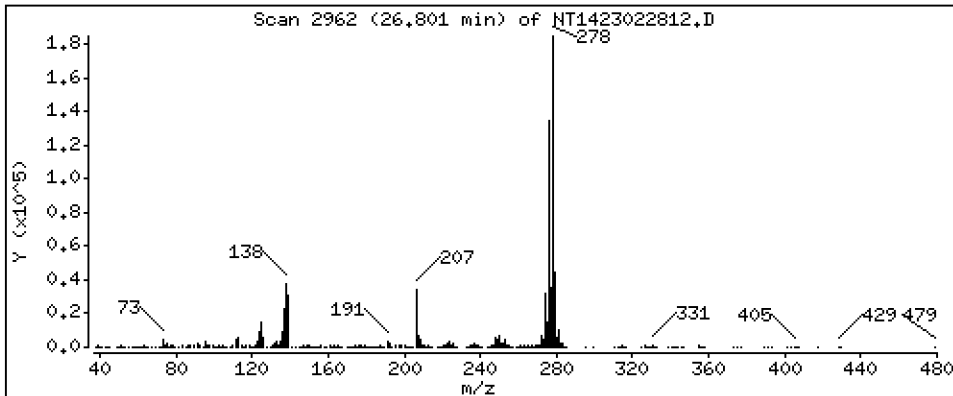
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,907 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

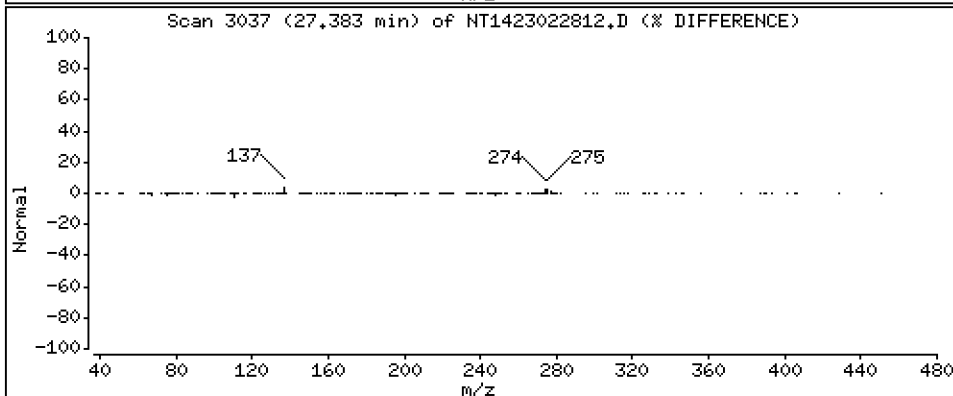
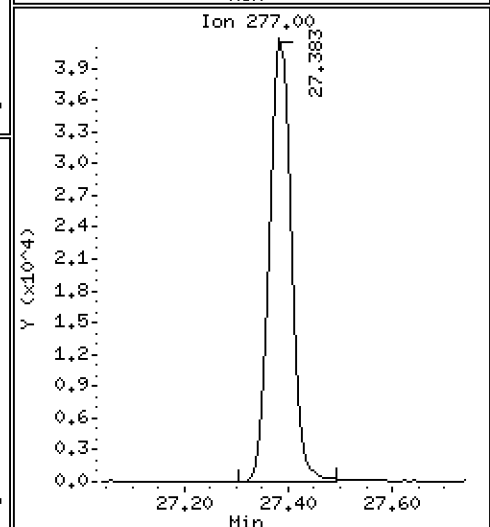
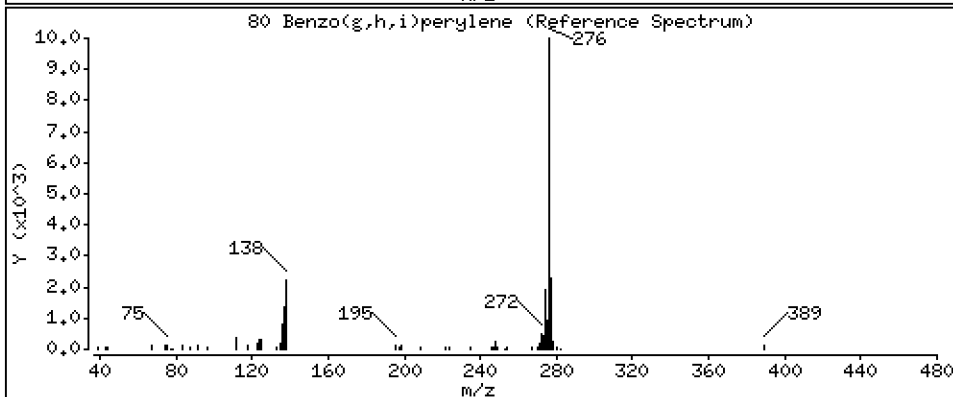
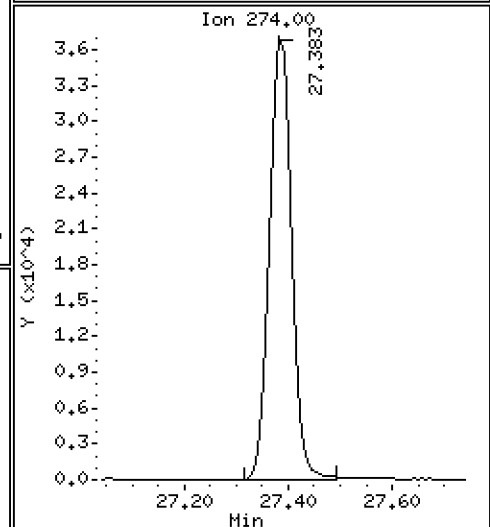
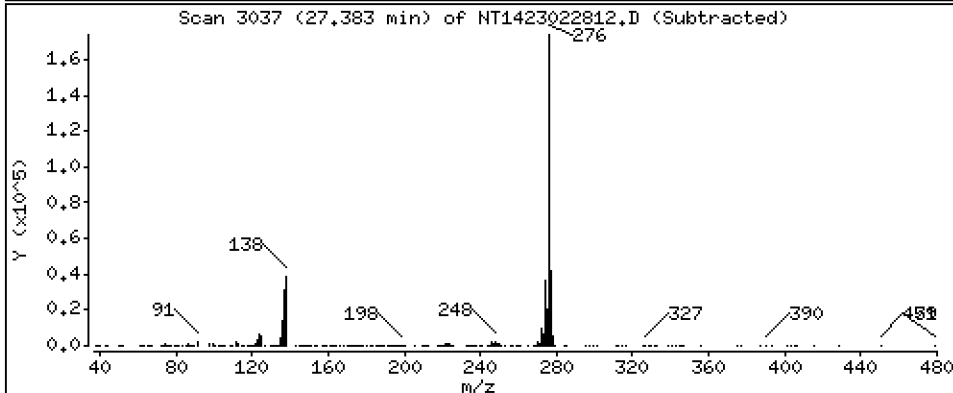
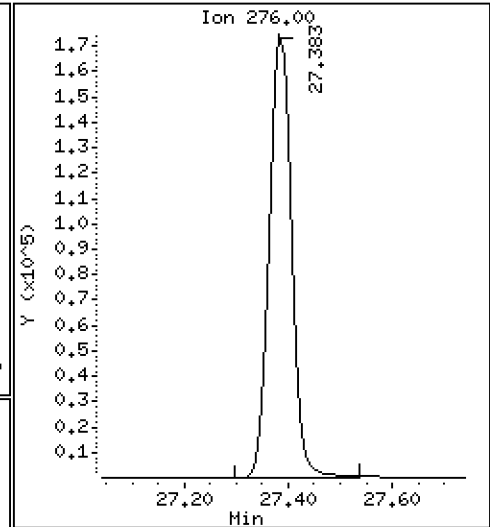
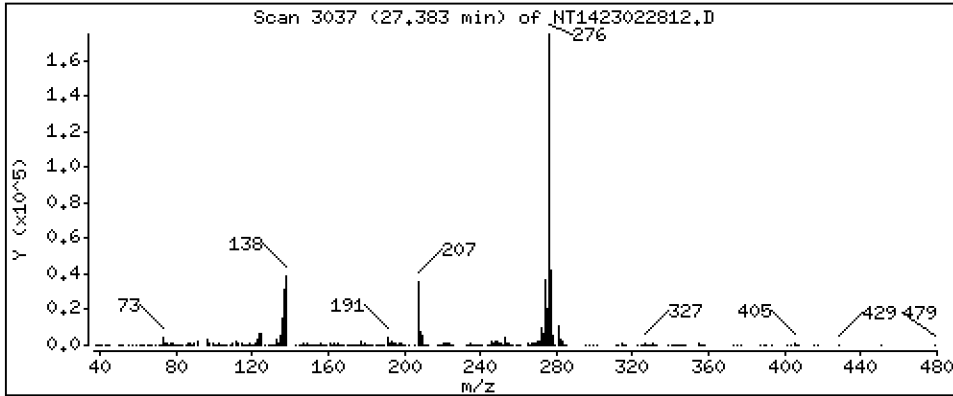
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,858 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

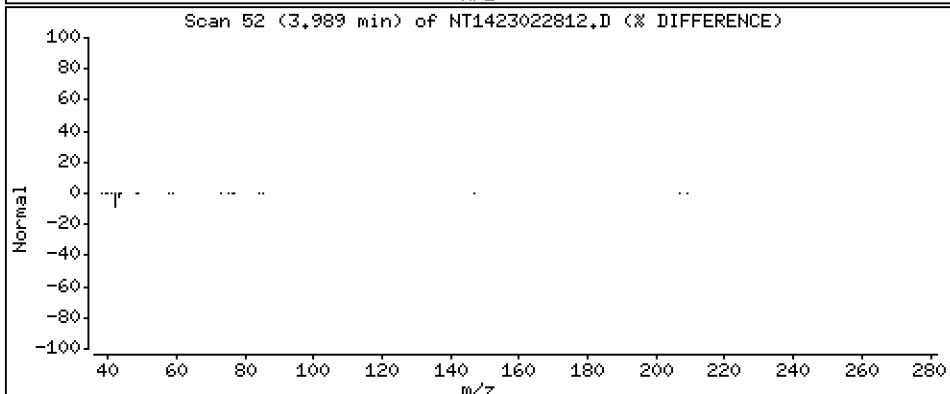
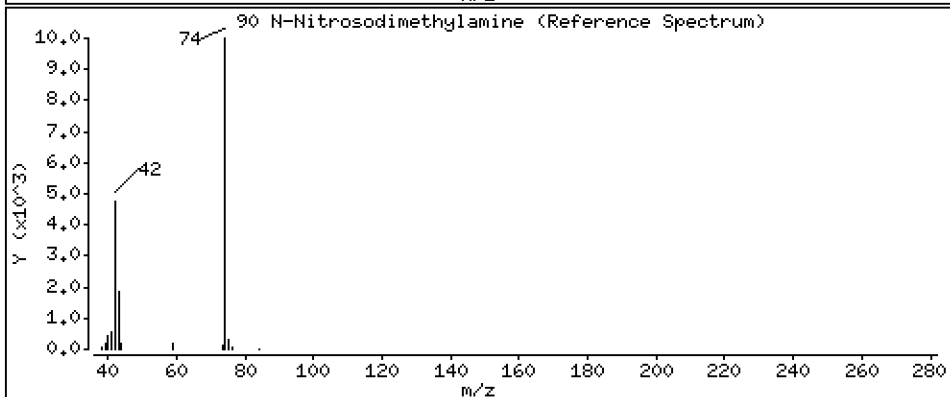
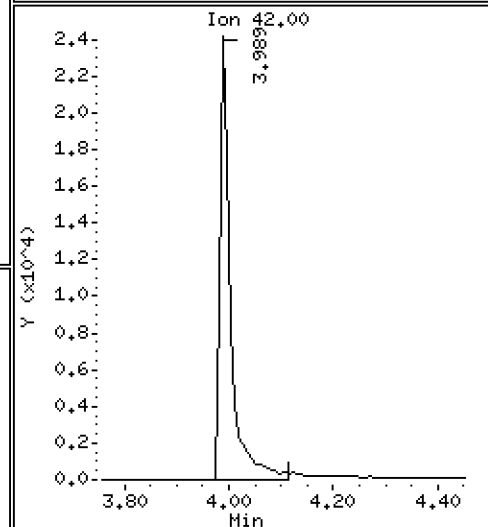
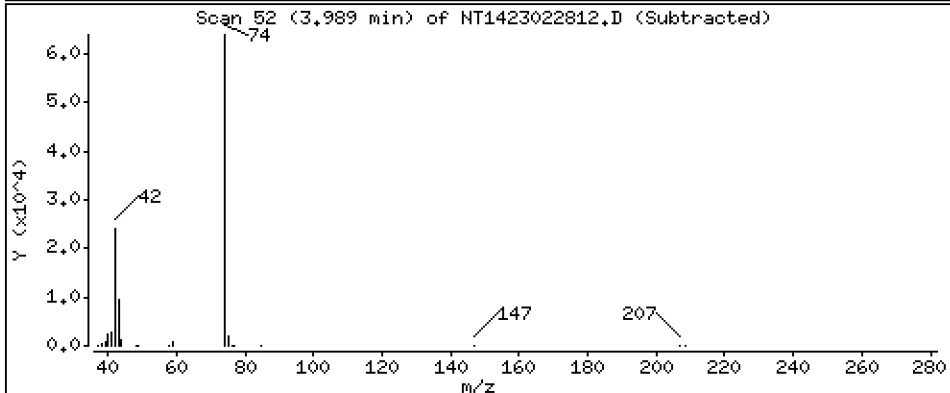
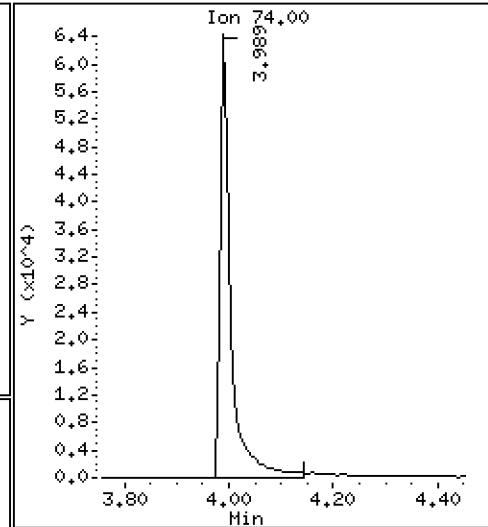
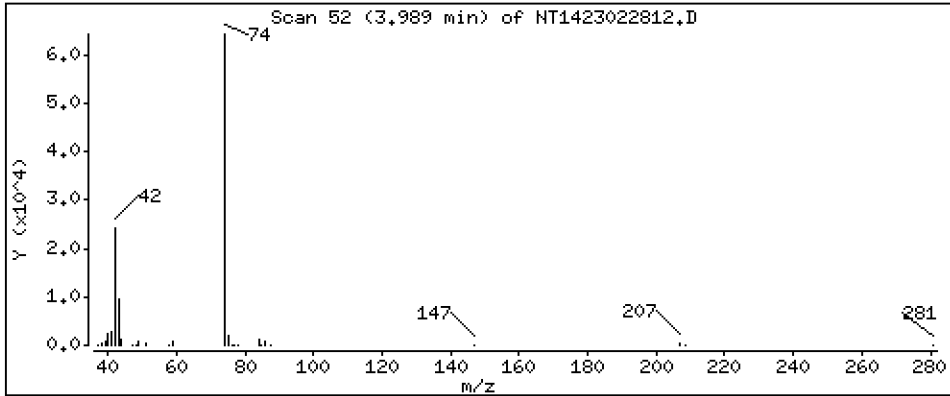
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 4,507 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

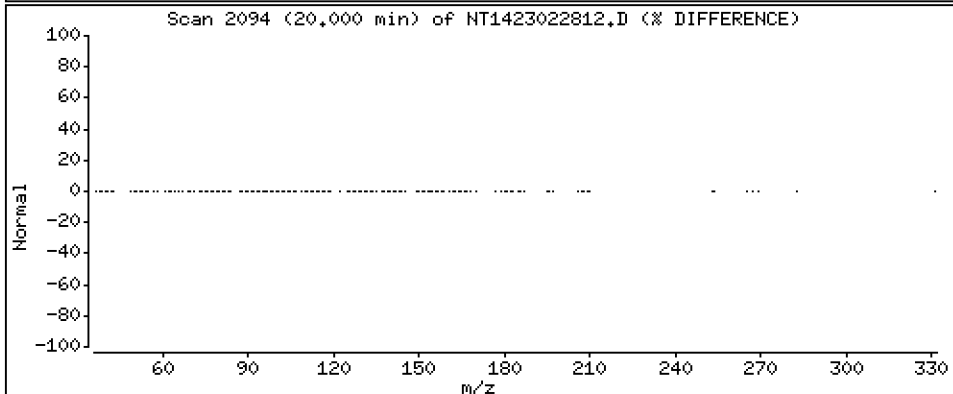
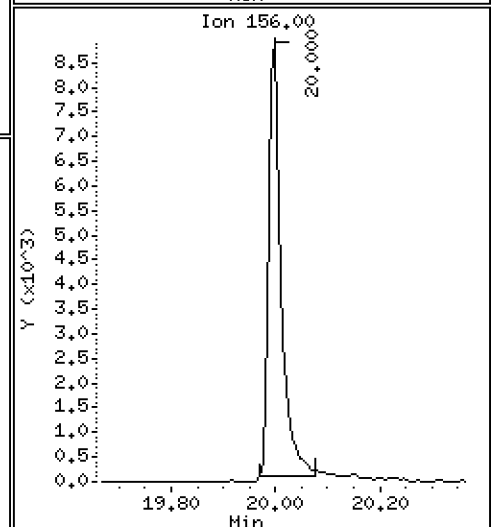
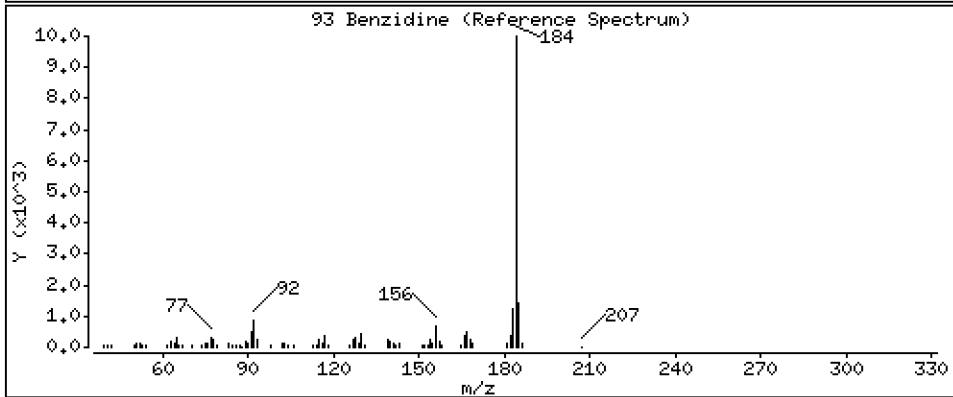
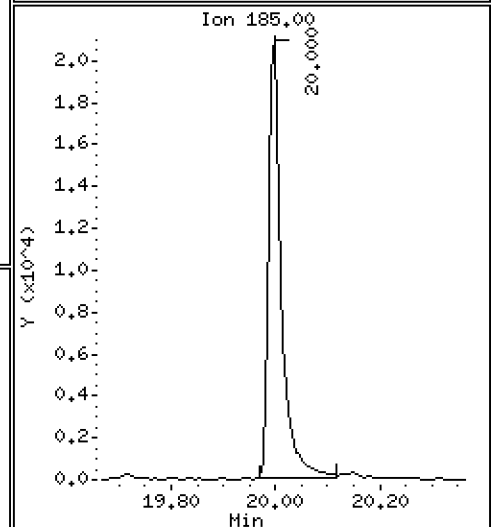
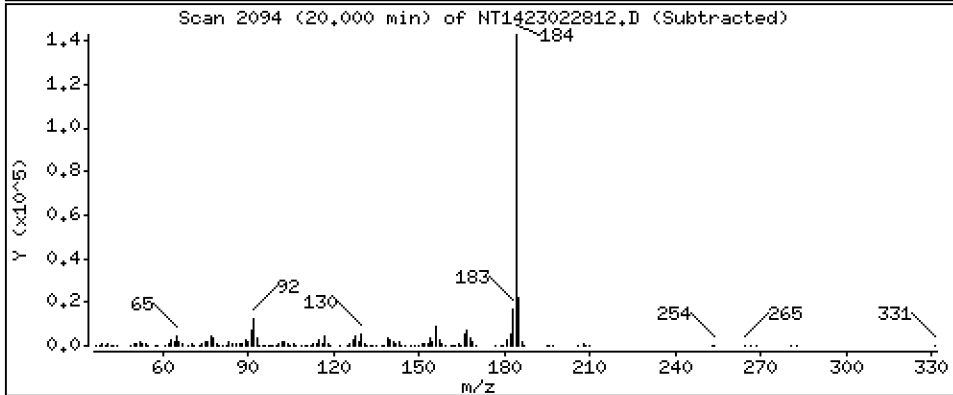
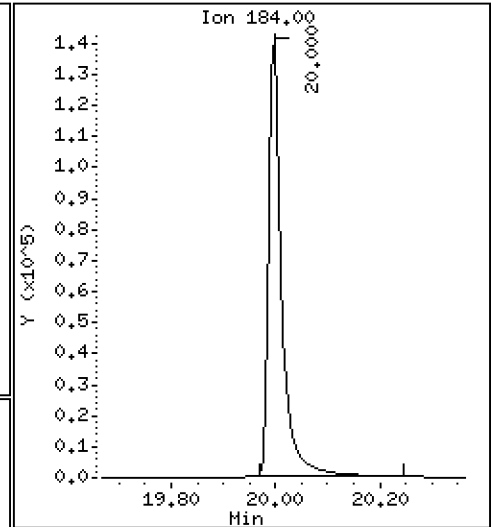
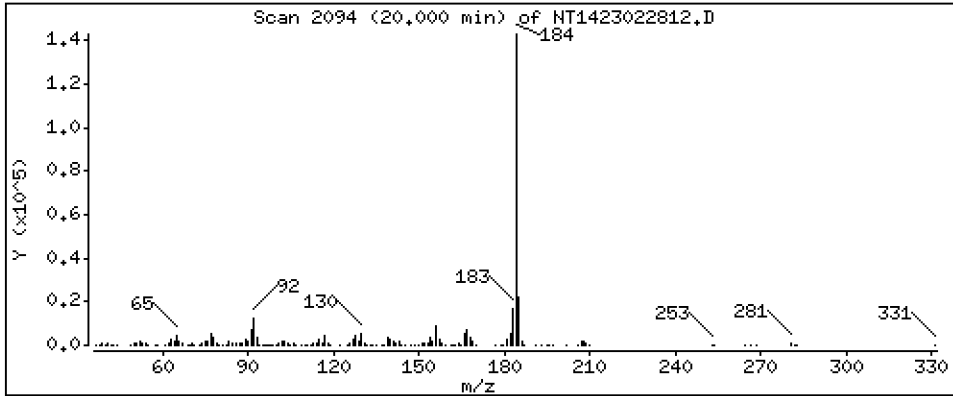
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 4,509 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

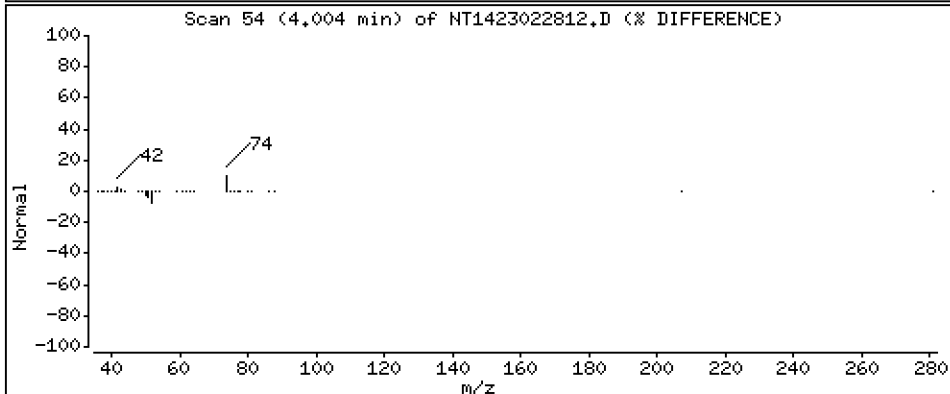
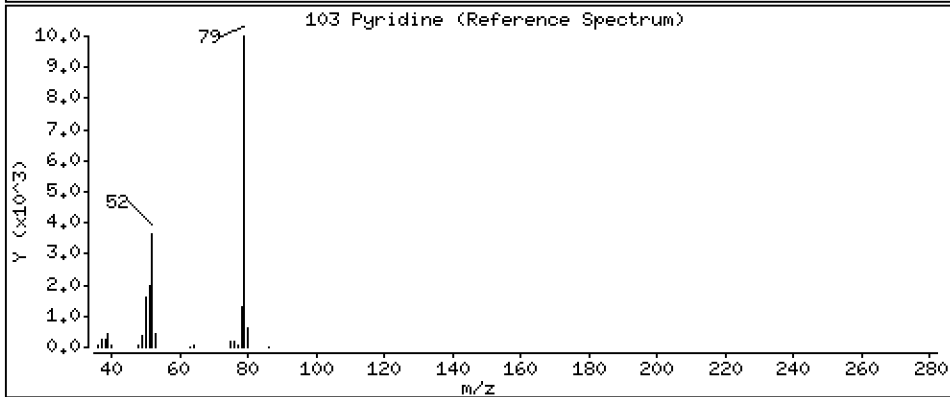
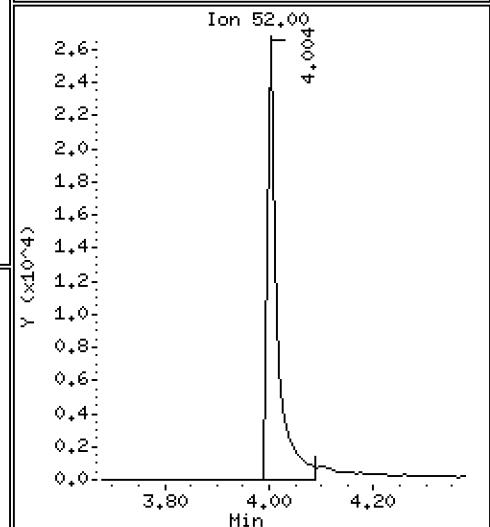
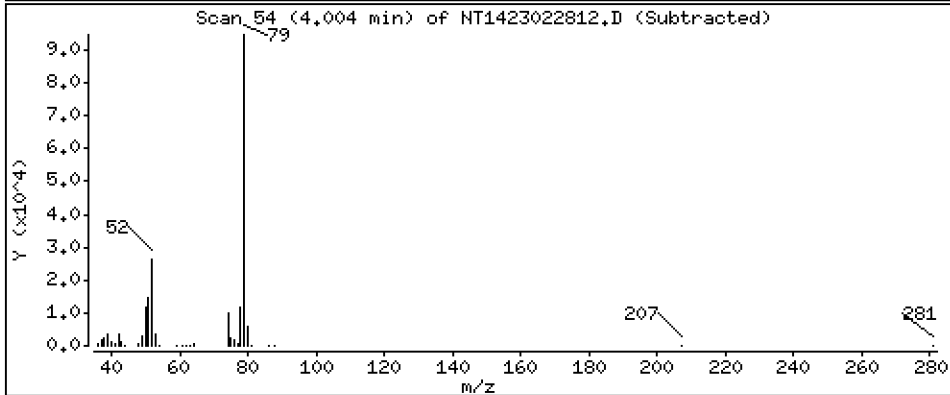
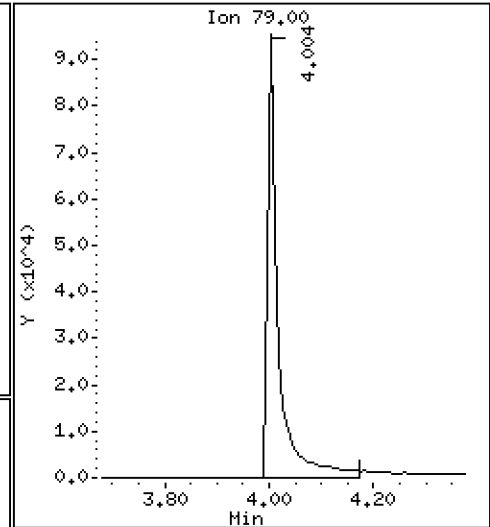
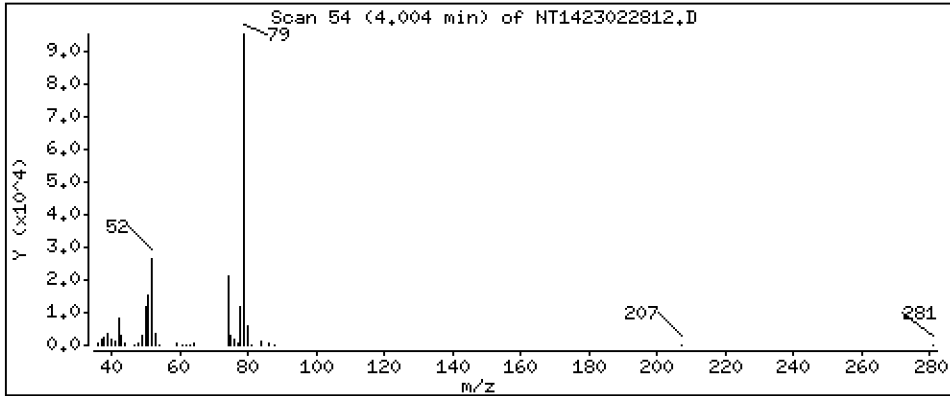
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

103 Pyridine

Concentration: 2.196 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

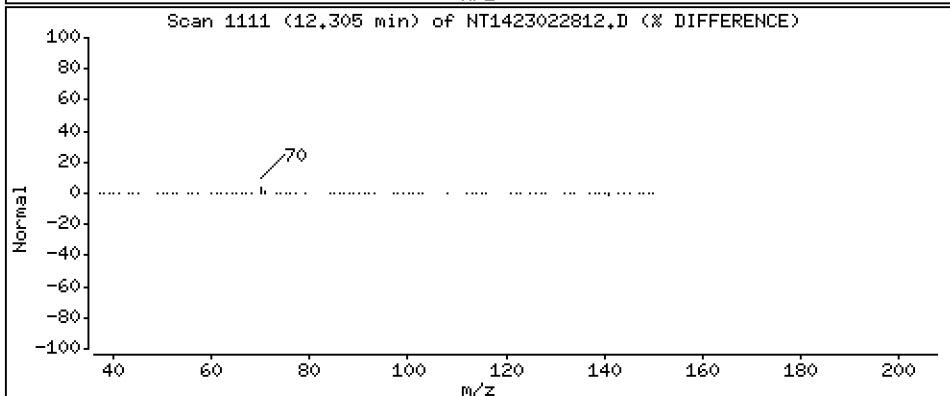
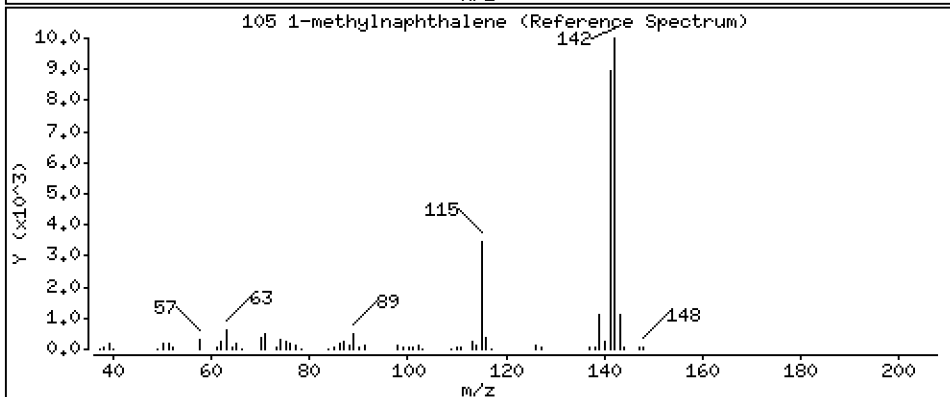
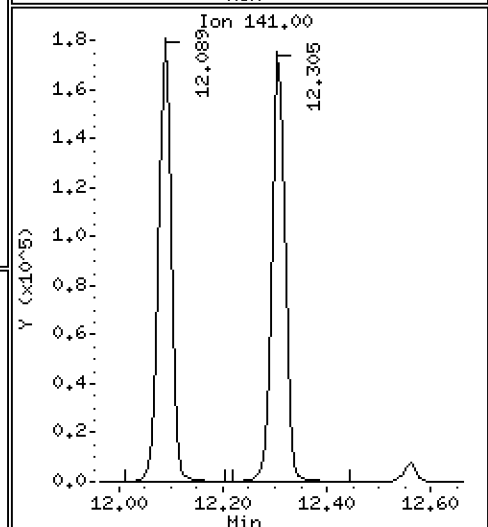
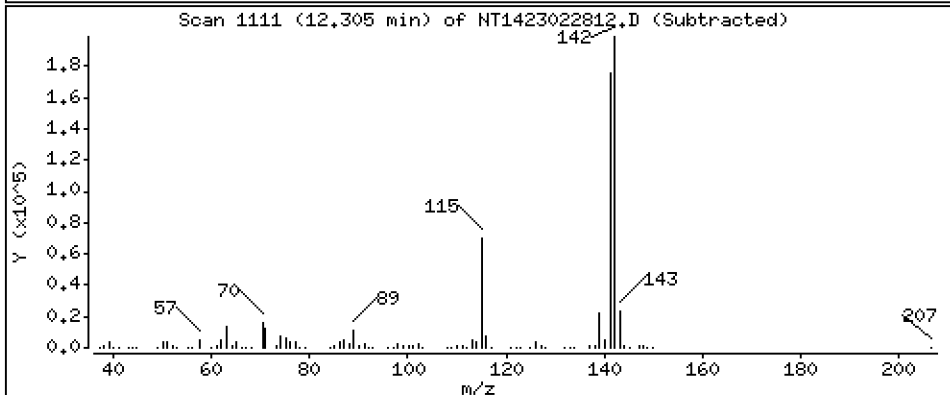
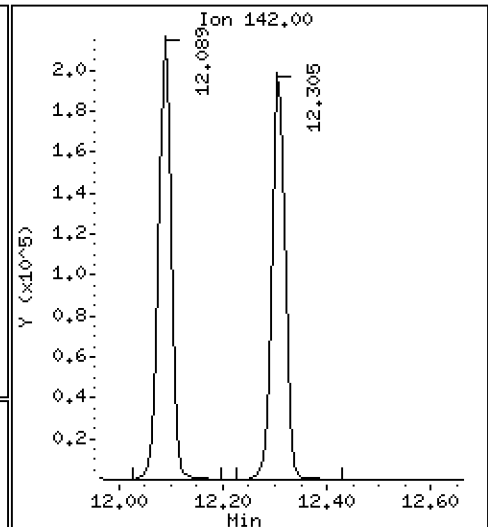
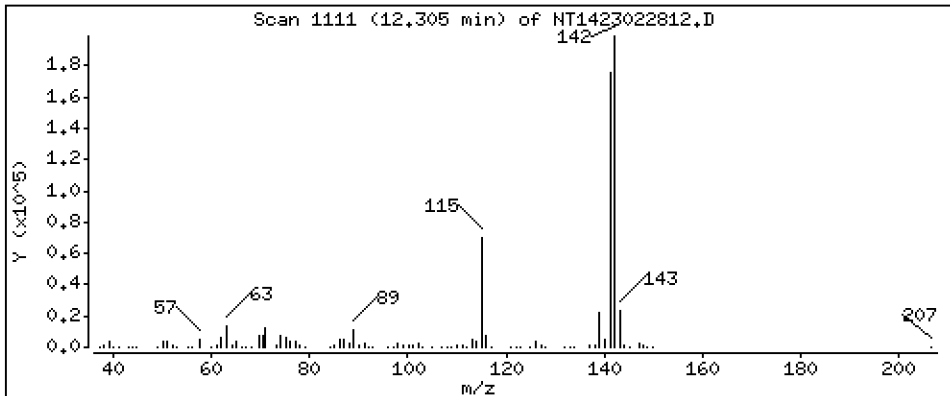
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 4.871 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

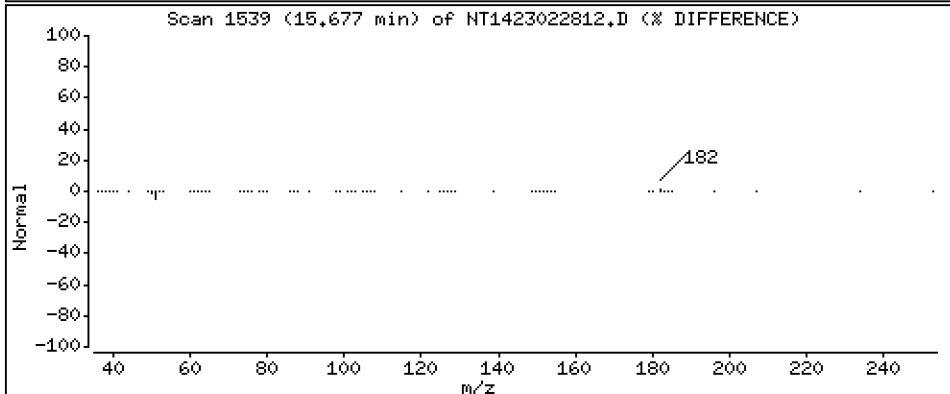
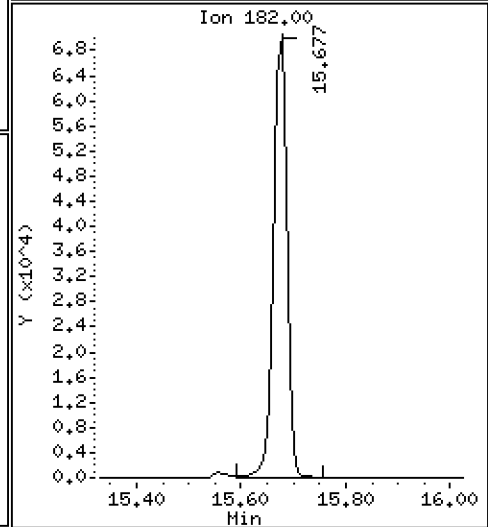
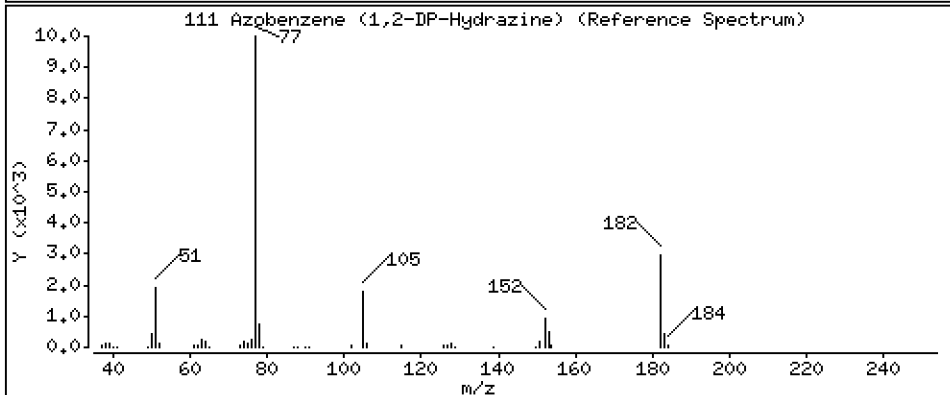
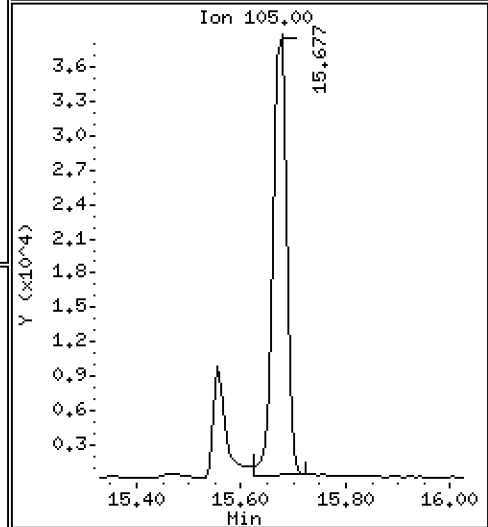
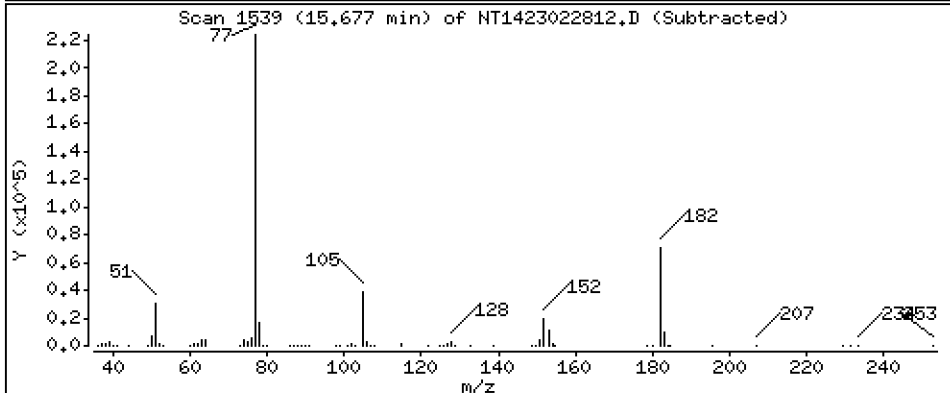
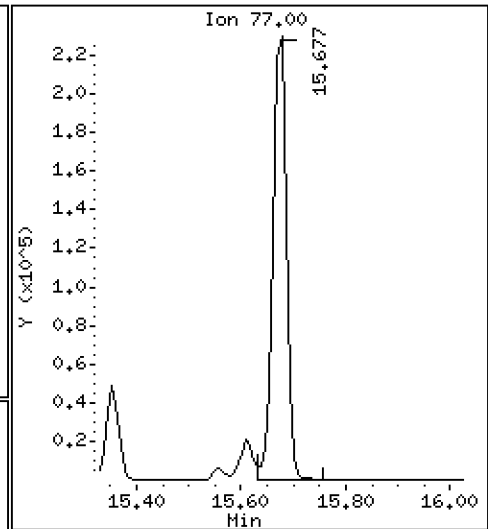
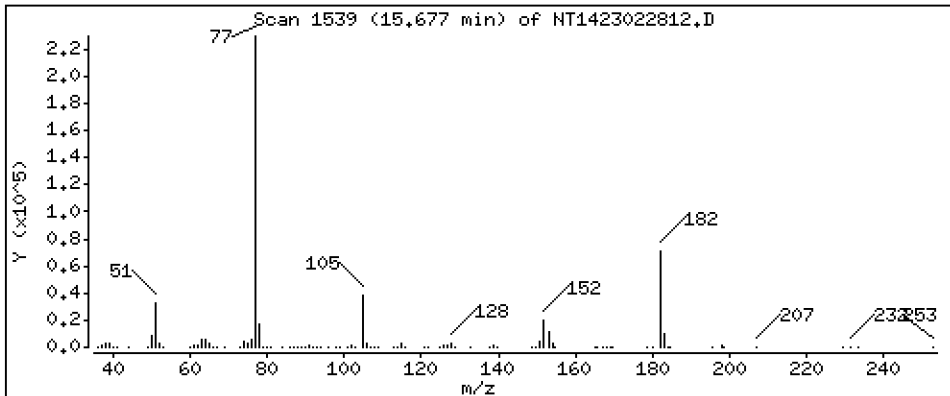
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 5,020 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

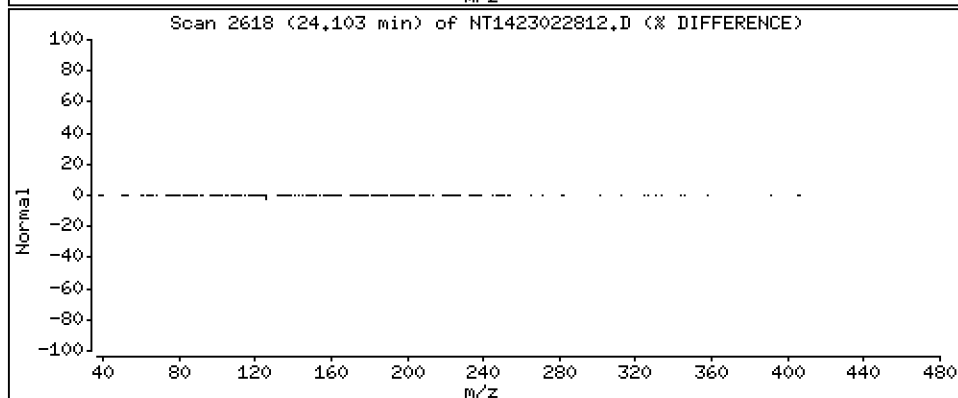
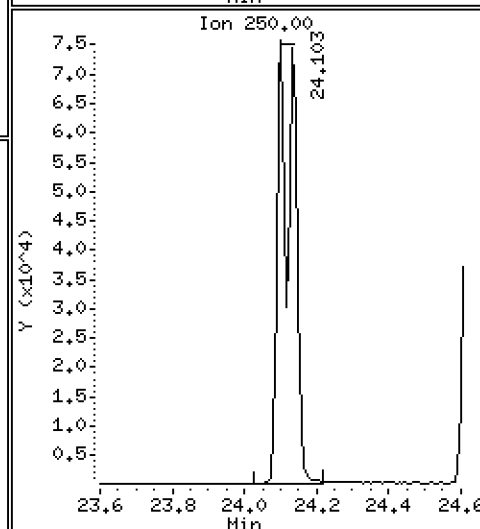
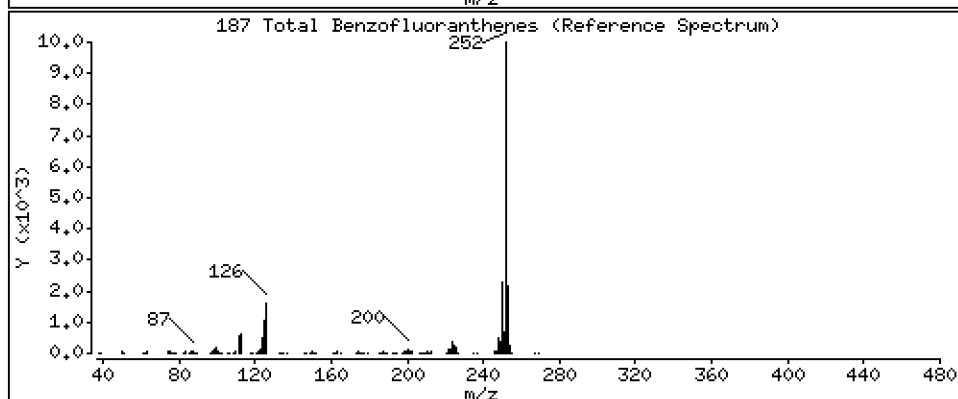
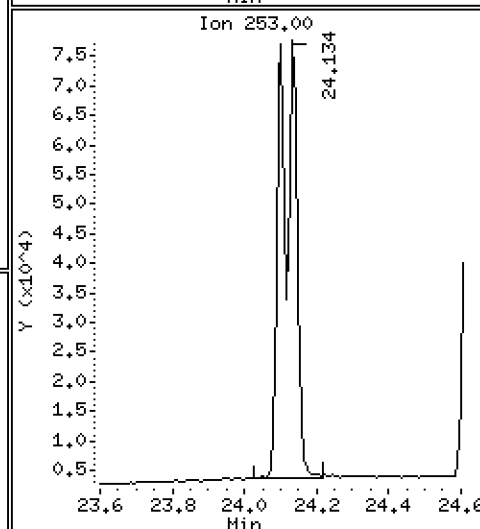
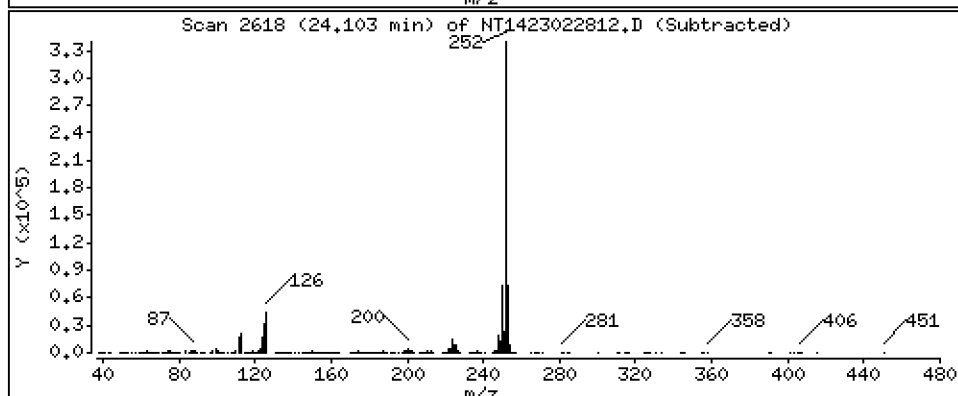
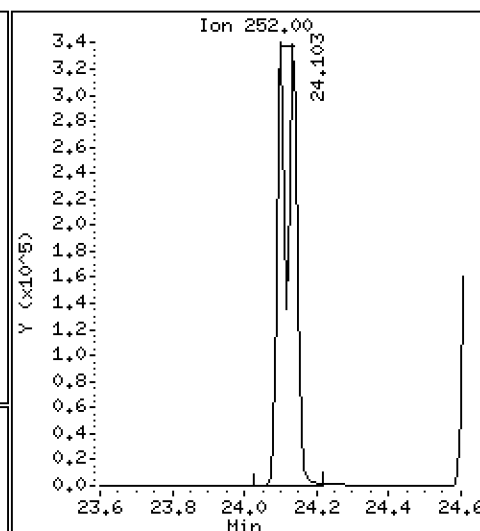
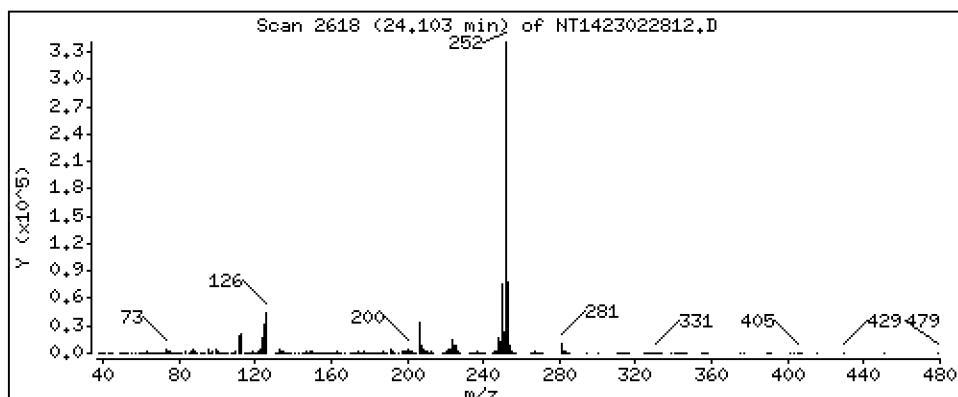
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,562 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

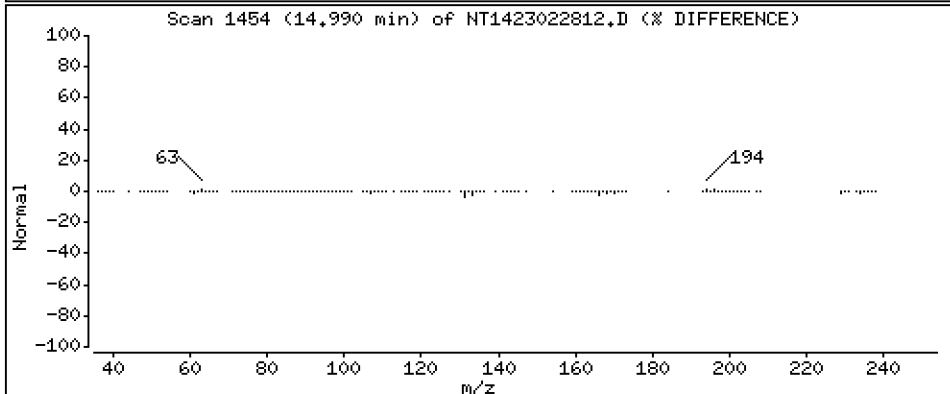
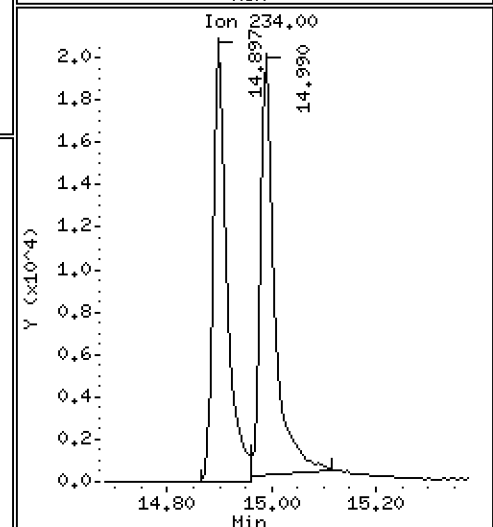
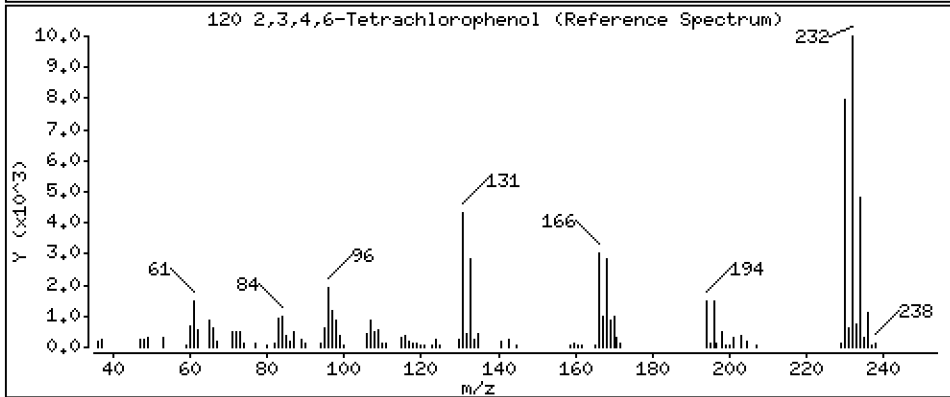
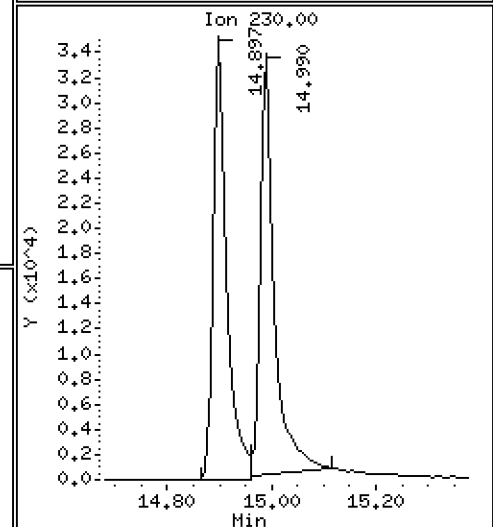
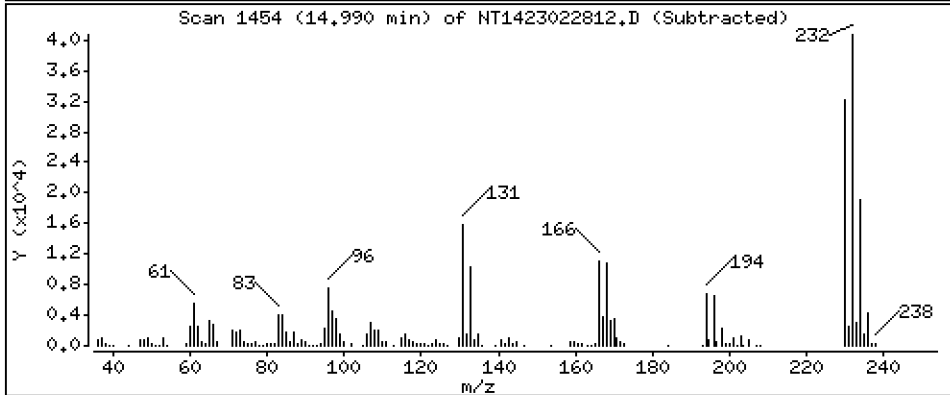
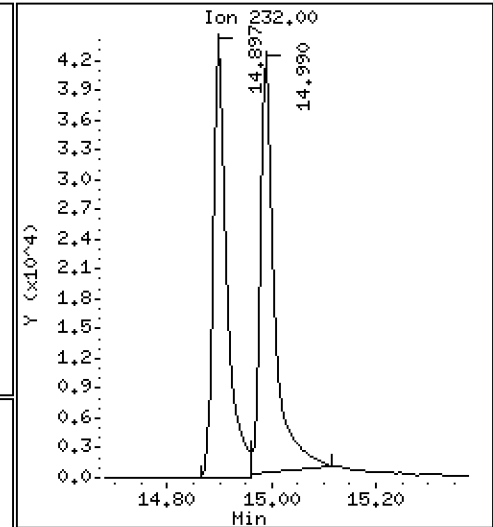
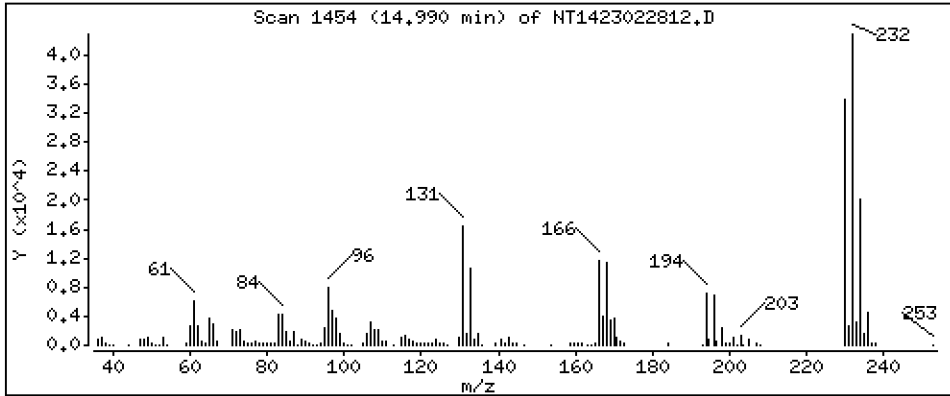
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,467 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022812.D  
 Lab Smp Id: SLB0374-SCV1  
 Inj Date : 28-FEB-2023 17:41 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-SCV1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 12  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE               | CONCENTRATIONS |           |
|---------------------------------|-------|-----|--------|--------|---------|------------------------|----------------|-----------|
|                                 |       |     |        |        |         |                        | ON-COLUMN      | FINAL     |
|                                 | MASS  |     |        |        |         |                        | (ug/mL)        | (ug/mL)   |
| =====                           | ====  |     | ====   | =====  | =====   | =====                  | =====          | =====     |
| \$ 1 2-Fluorophenol             | 112   |     |        |        |         | Compound Not Detected. |                |           |
| \$ 2 Phenol-d5                  | 99    |     |        |        |         | Compound Not Detected. |                |           |
| 3 Phenol                        | 94    |     | 7.657  | 7.681  | (0.933) | 190853                 | 3.93481        | 3.935     |
| \$ 5 2-Chlorophenol-d4          | 132   |     |        |        |         | Compound Not Detected. |                |           |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.789  | 7.805  | (0.949) | 172225                 | 5.22436        | 5.224     |
| 6 2-Chlorophenol                | 128   |     | 7.889  | 7.905  | (0.961) | 165501                 | 4.63235        | 4.632     |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.145  | 8.153  | (0.992) | 188790                 | 4.79491        | 4.795     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.207  | 8.207  | (1.000) | 105595                 | 4.00000        |           |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.238  | 8.246  | (1.004) | 186791                 | 4.80018        | 4.800     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     |        |        |         | Compound Not Detected. |                |           |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.587  | 8.595  | (1.046) | 179357                 | 4.80679        | 4.807     |
| 11 Benzyl alcohol               | 108   |     | 8.509  | 8.688  | (1.037) | 92183                  | 4.30388        | 4.304     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.804  | 8.812  | (1.073) | 55444                  | 5.50978        | 5.510     |
| 13 2-Methylphenol               | 108   |     | 8.750  | 8.774  | (1.066) | 135033                 | 4.40682        | 4.407     |
| 17 Hexachloroethane             | 117   |     | 9.161  | 9.162  | (1.116) | 74373                  | 5.08929        | 5.089     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.060  | 9.076  | (1.104) | 119882                 | 5.13841        | 5.138     |
| 15 4-Methylphenol               | 108   |     | 9.029  | 9.069  | (1.100) | 147984                 | 4.21848        | 4.218     |
| \$ 18 Nitrobenzene-d5           | 82    |     |        |        |         | Compound Not Detected. |                |           |
| 19 Nitrobenzene                 | 77    |     | 9.332  | 9.356  | (0.875) | 180410                 | 5.05930        | 5.059     |
| 20 Isophorone                   | 82    |     | 9.782  | 9.806  | (0.917) | 349645                 | 6.41026        | 6.410     |
| 21 2-Nitrophenol                | 139   |     | 9.961  | 9.992  | (0.934) | 76558                  | 4.12597        | 4.126     |
| 22 2,4-Dimethylphenol           | 107   |     | 10.054 | 10.062 | (0.943) | 126462                 | 3.89012        | 3.890     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.240 | 10.256 | (0.960) | 206654                 | 5.76434        | 5.764     |
| 24 Benzoic acid                 | 105   |     | 10.309 | 10.665 | (0.967) | 52451                  | 4.07142        | 4.071 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | 10.418 | 10.441 | (0.977) | 154075                 | 4.78253        | 4.783     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.580 | 10.588 | (0.992) | 175958                 | 4.78932        | 4.789     |
| * 27 Naphthalene-d8             | 136   |     | 10.665 | 10.665 | (1.000) | 379346                 | 4.00000        |           |
| 28 Naphthalene                  | 128   |     | 10.703 | 10.704 | (1.004) | 482268                 | 4.76613        | 4.766     |
| 29 4-Chloroaniline              | 127   |     | 10.858 | 10.889 | (1.018) | 168576                 | 3.89508        | 3.895     |
| 30 Hexachlorobutadiene          | 225   |     | 11.074 | 11.082 | (1.038) | 107684                 | 4.80334        | 4.803     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.848 | 11.872 | (1.111) | 142216                 | 4.86015        | 4.860     |
| 32 2-Methylnaphthalene          | 142   |     | 12.088 | 12.096 | (1.133) | 346575                 | 4.62518        | 4.625     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.560 | 12.560 | (0.882) | 109998                 | 4.53253        | 4.533     |

| Compounds                         | QUANT | SIG |                        |        |         |        |          | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|------------------------|--------|---------|--------|----------|----------------------|------------------|
|                                   |       |     | MASS                   | RT     | EXP RT  | REL RT | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     | 12.723                 | 12.746 | (0.893) | 107803 | 4.78817  | 4.788                |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     | 12.800                 | 12.831 | (0.898) | 113667 | 4.66940  | 4.669                |                  |
| § 36 2-Fluorobiphenyl             | 172   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 37 2-Chloronaphthalene            | 162   |     | 13.071                 | 13.079 | (0.917) | 353130 | 4.91059  | 4.911                |                  |
| 38 2-Nitroaniline                 | 65    |     | 13.357                 | 13.373 | (0.938) | 93395  | 4.97969  | 4.980                |                  |
| 39 Dimethylphthalate              | 163   |     | 13.806                 | 13.814 | (0.969) | 377389 | 5.20568  | 5.206                |                  |
| 40 Acenaphthylene                 | 152   |     | 13.930                 | 13.938 | (0.978) | 524968 | 4.97505  | 4.975                |                  |
| 41 2,6-Dinitrotoluene             | 165   |     | 13.930                 | 13.938 | (0.978) | 88793  | 5.22670  | 5.227                |                  |
| * 42 Acenaphthene-d10             | 164   |     | 14.247                 | 14.247 | (1.000) | 230482 | 4.00000  |                      |                  |
| 43 3-Nitroaniline                 | 138   |     | 14.209                 | 14.232 | (0.997) | 84775  | 4.86882  | 4.869                |                  |
| 44 Acenaphthene                   | 153   |     | 14.309                 | 14.309 | (1.004) | 322046 | 4.76684  | 4.767                |                  |
| 45 2,4-Dinitrophenol              | 184   |     | 14.433                 | 14.425 | (1.013) | 10550  | 0.98072  | 0.9807               |                  |
| 46 Dibenzofuran                   | 168   |     | 14.634                 | 14.642 | (1.027) | 507169 | 4.71794  | 4.718                |                  |
| 47 4-Nitrophenol                  | 109   |     | 14.572                 | 14.580 | (1.023) | 34204  | 3.93377  | 3.934                |                  |
| 48 2,4-Dinitrotoluene             | 165   |     | 14.726                 | 14.734 | (1.034) | 120852 | 4.94149  | 4.941                |                  |
| 50 Diethylphthalate               | 149   |     | 15.252                 | 15.260 | (1.071) | 367448 | 5.42014  | 5.420                |                  |
| 49 Fluorene                       | 166   |     | 15.337                 | 15.345 | (1.077) | 434135 | 4.79317  | 4.793                |                  |
| 51 4-Chlorophenyl-phenylether     | 204   |     | 15.353                 | 15.361 | (1.078) | 235392 | 4.88448  | 4.884                |                  |
| 52 4-Nitroaniline                 | 138   |     | 15.461                 | 15.492 | (1.085) | 78705  | 4.55998  | 4.560                |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     | 15.554                 | 15.608 | (0.902) | 49314  | 3.23357  | 3.234                |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     | 15.607                 | 15.616 | (0.905) | 286663 | 4.97950  | 4.980                |                  |
| § 55 2,4,6-Tribromophenol         | 330   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 56 4-Bromophenyl-phenylether      | 248   |     | 16.348                 | 16.348 | (0.948) | 130387 | 5.15173  | 5.152                |                  |
| 57 Hexachlorobenzene              | 284   |     | 16.634                 | 16.634 | (0.965) | 133283 | 4.78977  | 4.790                |                  |
| 58 Pentachlorophenol              | 266   |     | 17.013                 | 17.021 | (0.987) | 46829  | 3.52378  | 3.524 (M)            |                  |
| * 59 Phenanthrene-d10             | 188   |     | 17.245                 | 17.245 | (1.000) | 458109 | 4.00000  |                      |                  |
| 60 Phenanthrene                   | 178   |     | 17.291                 | 17.300 | (1.003) | 562433 | 4.61514  | 4.615                |                  |
| 61 Anthracene                     | 178   |     | 17.384                 | 17.392 | (1.008) | 486699 | 4.22447  | 4.224                |                  |
| 62 Carbazole                      | 167   |     | 17.732                 | 17.748 | (1.028) | 482242 | 4.77590  | 4.776                |                  |
| 63 Di-n-butylphthalate            | 149   |     | 18.599                 | 18.599 | (1.079) | 617439 | 4.81920  | 4.819                |                  |
| 64 Fluoranthene                   | 202   |     | 19.713                 | 19.721 | (0.881) | 680212 | 5.10377  | 5.104                |                  |
| 65 Pyrene                         | 202   |     | 20.139                 | 20.147 | (0.900) | 696600 | 4.95743  | 4.957                |                  |
| § 66 Terphenyl-d14                | 244   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 67 Butylbenzylphthalate           | 149   |     | 21.439                 | 21.447 | (0.958) | 242201 | 4.96478  | 4.965                |                  |
| 68 Benzo(a)anthracene             | 228   |     | 22.338                 | 22.338 | (0.999) | 578542 | 4.91658  | 4.917                |                  |
| * 69 Chrysene-d12                 | 240   |     | 22.368                 | 22.361 | (1.000) | 351284 | 4.00000  |                      |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     | 22.322                 | 22.330 | (0.998) | 345809 | 10.2906  | 10.29                |                  |
| 71 Chrysene                       | 228   |     | 22.407                 | 22.415 | (1.002) | 515316 | 4.55608  | 4.556                |                  |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 22.500                 | 22.500 | (0.958) | 338426 | 5.27680  | 5.277                |                  |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 23.476                 | 23.476 | (1.000) | 422614 | 4.00000  |                      |                  |
| 73 Di-n-octylphthalate            | 149   |     | 23.483                 | 23.484 | (1.000) | 576704 | 5.18281  | 5.183                |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 24.103                 | 24.103 | (0.975) | 541825 | 4.87157  | 4.872                |                  |
| 75 Benzo(k)fluoranthene           | 252   |     | 24.134                 | 24.134 | (0.977) | 559543 | 4.66326  | 4.663                |                  |
| 76 Benzo(a)pyrene                 | 252   |     | 24.614                 | 24.622 | (0.996) | 466252 | 4.88626  | 4.886                |                  |
| * 77 Perylene-d12                 | 264   |     | 24.714                 | 24.715 | (1.000) | 336637 | 4.00000  |                      |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 26.785                 | 26.793 | (1.084) | 587567 | 4.89167  | 4.892                |                  |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 26.800                 | 26.800 | (1.084) | 500585 | 4.90681  | 4.907                |                  |
| 80 Benzo(g,h,i)perylene           | 276   |     | 27.383                 | 27.391 | (1.108) | 508988 | 4.85849  | 4.858                |                  |
| 90 N-Nitrosodimethylamine         | 74    |     | 3.988                  | 4.104  | (0.486) | 94230  | 4.50713  | 4.507                |                  |
| 91 Aniline                        | 93    |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 93 Benzidine                      | 184   |     | 19.999                 | 20.015 | (0.894) | 253209 | 4.50911  | 4.509                |                  |
| 103 Pyridine                      | 79    |     | 4.004                  | 4.027  | (0.488) | 137878 | 2.19631  | 2.196                |                  |
| 105 1-methylnaphthalene           | 142   |     | 12.305                 | 12.313 | (1.154) | 335999 | 4.87061  | 4.871                |                  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     | 15.677                 | 15.677 | (1.100) | 390699 | 5.02002  | 5.020                |                  |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 24.103 | 24.103 | (0.975) | 1040320  | 9.56184              | 9.562            |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 14.989 | 15.029 | (1.052) | 91471    | 3.46740              | 3.467            |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023  
 Lab File ID: NT1423022812.D Calibration Time: 12:51  
 Lab Smp Id: SLB0374-SCV1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 114351   | 57176      | 228702  | 105595 | -7.66  |
| 27 Naphthalene-d8     | 408655   | 204328     | 817310  | 379346 | -7.17  |
| 42 Acenaphthene-d10   | 254000   | 127000     | 508000  | 230482 | -9.26  |
| 59 Phenanthrene-d10   | 490626   | 245313     | 981252  | 458109 | -6.63  |
| 69 Chrysene-d12       | 390400   | 195200     | 780800  | 351284 | -10.02 |
| 134 Di-n-octylphthala | 500829   | 250415     | 1001658 | 422614 | -15.62 |
| 77 Perylene-d12       | 375675   | 187838     | 751350  | 336637 | -10.39 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.21   | -0.09 |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.67  | 0.00  |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.25  | 0.00  |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.25  | -0.04 |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.37  | -0.03 |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.48  | -0.03 |
| 77 Perylene-d12       | 24.72    | 24.22    | 25.22 | 24.71  | -0.03 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022812.D

Lab ID: SLB0374-SCV1  
nt14.i, ABN.m, 28-FEB-2023 17:41

| RT     | CO-ELUTION COMPOUNDS                  |
|--------|---------------------------------------|
| 13.930 | Acenaphthylene and 2,6-Dinitrotoluene |

\*\* FIRST SURROGATE NOT FOUND. ICAL Check not performed \*\*

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND               |
|-------|---------|---------|------------------------|
| 1.037 | 1.059   | -0.0218 | Benzyl alcohol         |
| 0.967 | 0.000   | 0.9667  | Benzoic acid           |
| 1.013 | 0.000   | 1.0130  | 2,4-Dinitrophenol      |
| 1.023 | 0.000   | 1.0228  | 4-Nitrophenol          |
| 0.987 | 0.000   | 0.9865  | Pentachlorophenol      |
| 0.486 | 0.500   | -0.0141 | N-Nitrosodimethylamine |
| 0.488 | 0.000   | 0.4879  | Pyridine               |

RRT check based on Ccal File: NT1423022808.D

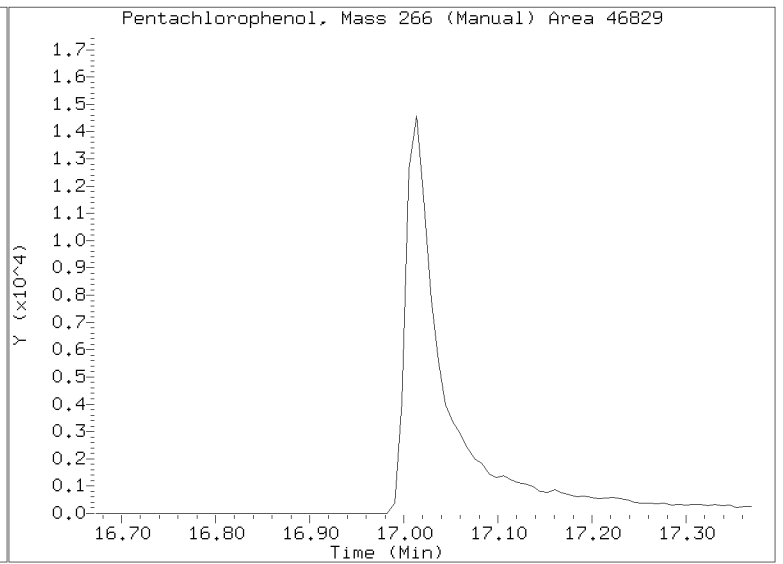
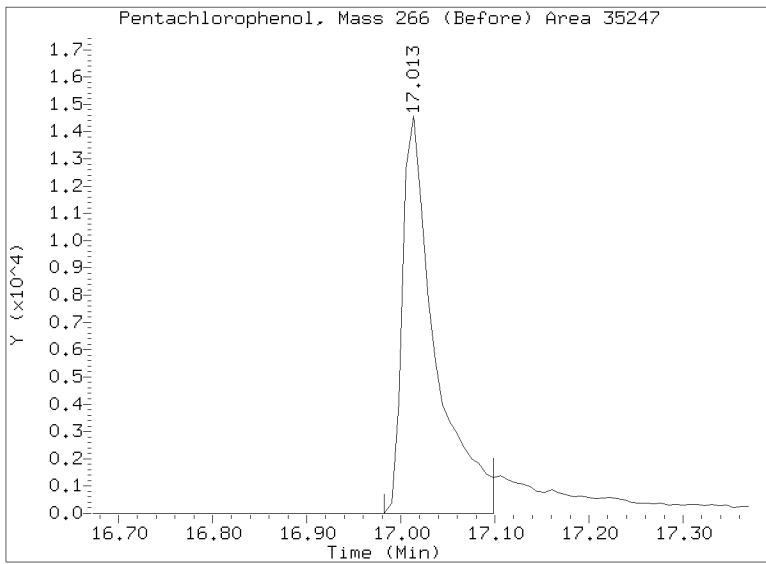
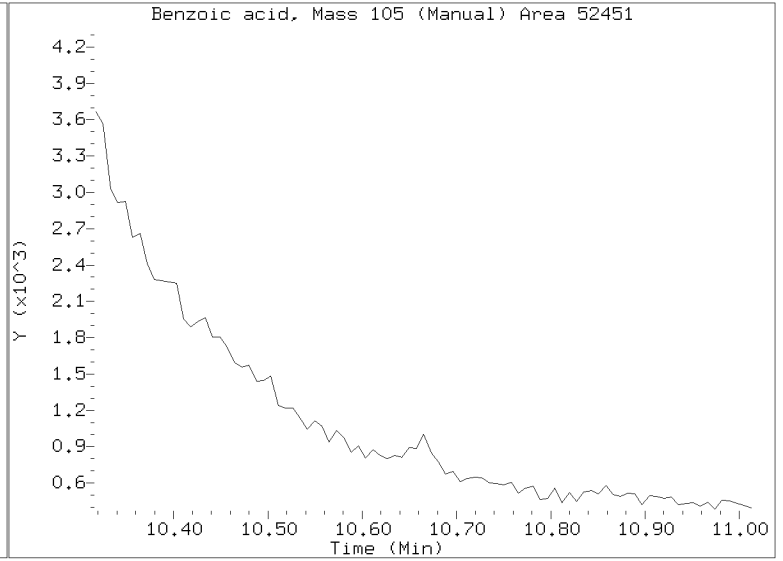
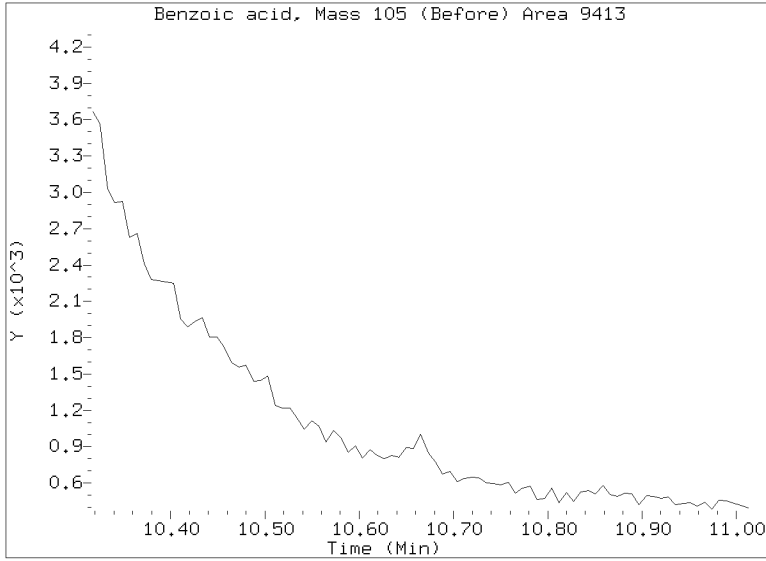
On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*



# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022812.D  
Injection Date: 28-FEB-2023 17:41  
Lab ID:SLB0374-SCV1 Client ID:  
Report Date: 03/10/2023 13:21





**INITIAL CALIBRATION DATA**  
**EPA 8270E**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GC00046                   | Instrument: | NT10            |
| Calibration Date: | 03/15/2023                | Column (1): | ZB-5MSi         |

Calibration Comments: 625.1/8270E ICAL

| Compound                    | Level 01 |           | Level 02 |           | Level 03 |           | Level 04 |           | Level 05 |           | Level 06 |           |
|-----------------------------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|
|                             | Conc     | RRF       | Conc     | RRF       | Conc     | RRF       | Conc     | RRF       | Conc     | RRF       | Conc     | RRF       |
| Phenol                      | 0.2      | 1.622083  | 0.5      | 1.744385  | 1        | 1.738913  | 2.5      | 1.741727  | 5        | 1.626447  | 10       | 1.548455  |
| 4-Methylphenol              | 0.2      | 1.143833  | 0.5      | 1.244     | 1        | 1.307883  | 2.5      | 1.374404  | 5        | 1.286966  | 10       | 1.25011   |
| Naphthalene                 | 0.2      | 1.114243  | 0.5      | 1.09175   | 1        | 1.076291  | 2.5      | 1.085156  | 5        | 1.039419  | 10       | 1.030535  |
| 2-Methylnaphthalene         | 0.2      | 0.7568101 | 0.5      | 0.7669962 | 1        | 0.7731469 | 2.5      | 0.7905566 | 5        | 0.7700416 | 10       | 0.7603408 |
| Acenaphthylene              | 0.2      | 1.914149  | 0.5      | 2.075865  | 1        | 2.064925  | 2.5      | 2.101795  | 5        | 1.969132  | 10       | 1.984368  |
| Dimethylphthalate           | 0.2      | 1.323382  | 0.5      | 1.369259  | 1        | 1.345764  | 2.5      | 1.337994  | 5        | 1.267312  | 10       | 1.259852  |
| Acenaphthene                | 0.2      | 1.282509  | 0.5      | 1.261686  | 1        | 1.254791  | 2.5      | 1.256369  | 5        | 1.196404  | 10       | 1.205595  |
| Dibenzofuran                | 0.2      | 1.836794  | 0.5      | 1.892326  | 1        | 1.842035  | 2.5      | 1.892208  | 5        | 1.79473   | 10       | 1.763428  |
| Fluorene                    | 0.2      | 1.406055  | 0.5      | 1.451029  | 1        | 1.476714  | 2.5      | 1.500425  | 5        | 1.400817  | 10       | 1.414686  |
| Phenanthrene                | 0.2      | 1.132198  | 0.5      | 1.106313  | 1        | 1.120881  | 2.5      | 1.127028  | 5        | 1.051992  | 10       | 1.053617  |
| Anthracene                  | 0.2      | 0.9557141 | 0.5      | 1.01224   | 1        | 1.065265  | 2.5      | 1.115342  | 5        | 1.052956  | 10       | 1.080994  |
| Fluoranthene                | 0.2      | 1.36328   | 0.5      | 1.520561  | 1        | 1.561968  | 2.5      | 1.693508  | 5        | 1.749137  | 10       | 1.631866  |
| Pyrene                      | 0.2      | 1.456041  | 0.5      | 1.609441  | 1        | 1.630818  | 2.5      | 1.727629  | 5        | 1.739198  | 10       | 1.667931  |
| Butylbenzylphthalate        | 0.2      | 0.3340669 | 0.5      | 0.4333599 | 1        | 0.4863695 | 2.5      | 0.5550659 | 5        | 0.5940761 | 10       | 0.626307  |
| Benzo(a)anthracene          | 0.2      | 1.366436  | 0.5      | 1.427814  | 1        | 1.430217  | 2.5      | 1.485547  | 5        | 1.41212   | 10       | 1.389236  |
| Chrysene                    | 0.2      | 1.359447  | 0.5      | 1.429869  | 1        | 1.401334  | 2.5      | 1.407173  | 5        | 1.374198  | 10       | 1.361188  |
| bis(2-Ethylhexyl)phthalate  | 0.2      | 0.3420314 | 0.5      | 0.4459806 | 1        | 0.5288449 | 2.5      | 0.5865203 | 5        | 0.5882303 | 10       | 0.5899108 |
| Benzo(a)fluoranthene, Total | 0.4      | 1.195721  | 1        | 1.245168  | 2        | 1.253078  | 5        | 1.280546  | 10       | 1.251547  | 20       | 1.288474  |
| Benzo(a)pyrene              | 0.2      | 0.9927352 | 0.5      | 1.101345  | 1        | 1.122317  | 2.5      | 1.22032   | 5        | 1.206385  | 10       | 1.233412  |
| Indeno(1,2,3-cd)pyrene      | 0.2      | 1.121524  | 0.5      | 1.32292   | 1        | 1.409944  | 2.5      | 1.590272  | 5        | 1.628941  | 10       | 1.583568  |
| Dibenzo(a,h)anthracene      | 0.2      | 0.9256101 | 0.5      | 1.109076  | 1        | 1.176882  | 2.5      | 1.320958  | 5        | 1.350104  | 10       | 1.305995  |
| Benzo(g,h,i)perylene        | 0.2      | 0.9796118 | 0.5      | 1.132402  | 1        | 1.201964  | 2.5      | 1.357402  | 5        | 1.42789   | 10       | 1.366327  |
| 2-Fluorophenol              | 0.3      | 1.17021   | 0.75     | 1.261679  | 1.5      | 1.266774  | 3.75     | 1.303968  | 7.5      | 1.210352  | 15       | 1.167768  |
| Phenol-d5                   | 0.3      | 1.485429  | 0.75     | 1.590369  | 1.5      | 1.618326  | 3.75     | 1.691404  | 7.5      | 1.609716  | 15       | 1.575522  |
| 2-Chlorophenol-d4           | 0.3      | 1.261338  | 0.75     | 1.355292  | 1.5      | 1.384443  | 3.75     | 1.420173  | 7.5      | 1.374898  | 15       | 1.357401  |
| 1,2-Dichlorobenzene-d4      | 0.2      | 0.9420816 | 0.5      | 0.9800826 | 1        | 1.025212  | 2.5      | 1.023568  | 5        | 0.9490201 | 10       | 0.9543478 |
| Nitrobenzene-d5             | 0.2      | 0.3650764 | 0.5      | 0.3986882 | 1        | 0.4101461 | 2.5      | 0.4261085 | 5        | 0.4187027 | 10       | 0.4110496 |



**INITIAL CALIBRATION DATA**  
**EPA 8270E**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GC00046                   | Instrument: | NT10            |
| Calibration Date: | 03/15/2023                | Column (1): | ZB-5MSi         |

Calibration Comments: 625.1/8270E ICAL

| Compound             | Level 01 |              | Level 02 |          | Level 03 |           | Level 04 |           | Level 05 |          | Level 06 |           |
|----------------------|----------|--------------|----------|----------|----------|-----------|----------|-----------|----------|----------|----------|-----------|
|                      | Conc     | RRF          | Conc     | RRF      | Conc     | RRF       | Conc     | RRF       | Conc     | RRF      | Conc     | RRF       |
| 2-Fluorobiphenyl     | 0.2      | 1.623527     | 0.5      | 1.630708 | 1        | 1.616933  | 2.5      | 1.625878  | 5        | 1.553266 | 10       | 1.544261  |
| 2,4,6-Tribromophenol | 0.3      | 9.930622E-02 | 0.75     | 0.135101 | 1.5      | 0.1514052 | 3.75     | 0.1764476 | 7.5      | 0.177783 | 15       | 0.1895637 |
| p-Terphenyl-d14      | 0.2      | 1.184567     | 0.5      | 1.243423 | 1        | 1.268525  | 2.5      | 1.295244  | 5        | 1.260569 | 10       | 1.21091   |



**INITIAL CALIBRATION DATA**  
**EPA 8270E**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GC00046                   | Instrument: | NT10            |
| Calibration Date: | 03/15/2023                | Column (1): | ZB-5MSi         |

Calibration Comments: 625.1/8270E ICAL

| Compound                    | Level 07 |           | Level 08 |     | Level 09 |     | Level 10 |     | Level 11 |     | Level 12 |     |
|-----------------------------|----------|-----------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
|                             | Conc     | RRF       | Conc     | RRF | Conc     | RRF | Conc     | RRF | Conc     | RRF | Conc     | RRF |
| Phenol                      | 20       | 1.521085  |          |     |          |     |          |     |          |     |          |     |
| 4-Methylphenol              | 20       | 1.258843  |          |     |          |     |          |     |          |     |          |     |
| Naphthalene                 | 20       | 0.9802185 |          |     |          |     |          |     |          |     |          |     |
| 2-Methylnaphthalene         | 20       | 0.7350977 |          |     |          |     |          |     |          |     |          |     |
| Acenaphthylene              | 20       | 1.864621  |          |     |          |     |          |     |          |     |          |     |
| Dimethylphthalate           | 20       | 1.192451  |          |     |          |     |          |     |          |     |          |     |
| Acenaphthene                | 20       | 1.176068  |          |     |          |     |          |     |          |     |          |     |
| Dibenzofuran                | 20       | 1.709758  |          |     |          |     |          |     |          |     |          |     |
| Fluorene                    | 20       | 1.366348  |          |     |          |     |          |     |          |     |          |     |
| Phenanthrene                | 20       | 1.042964  |          |     |          |     |          |     |          |     |          |     |
| Anthracene                  | 20       | 1.041424  |          |     |          |     |          |     |          |     |          |     |
| Fluoranthene                | 20       | 1.730564  |          |     |          |     |          |     |          |     |          |     |
| Pyrene                      | 20       | 1.710349  |          |     |          |     |          |     |          |     |          |     |
| Butylbenzylphthalate        | 20       | 0.6757807 |          |     |          |     |          |     |          |     |          |     |
| Benzo(a)anthracene          | 20       | 1.371766  |          |     |          |     |          |     |          |     |          |     |
| Chrysene                    | 20       | 1.322435  |          |     |          |     |          |     |          |     |          |     |
| bis(2-Ethylhexyl)phthalate  | 20       | 0.5927596 |          |     |          |     |          |     |          |     |          |     |
| Benzo(a)fluoranthene, Total | 40       | 1.248781  |          |     |          |     |          |     |          |     |          |     |
| Benzo(a)pyrene              | 20       | 1.238145  |          |     |          |     |          |     |          |     |          |     |
| Indeno(1,2,3-cd)pyrene      | 20       | 1.666622  |          |     |          |     |          |     |          |     |          |     |
| Dibenzo(a,h)anthracene      | 20       | 1.382416  |          |     |          |     |          |     |          |     |          |     |
| Benzo(g,h,i)perylene        | 20       | 1.468793  |          |     |          |     |          |     |          |     |          |     |
| 2-Fluorophenol              | 30       | 1.086771  |          |     |          |     |          |     |          |     |          |     |
| Phenol-d5                   | 30       | 1.537369  |          |     |          |     |          |     |          |     |          |     |
| 2-Chlorophenol-d4           | 30       | 1.332016  |          |     |          |     |          |     |          |     |          |     |
| 1,2-Dichlorobenzene-d4      | 20       | 0.937777  |          |     |          |     |          |     |          |     |          |     |
| Nitrobenzene-d5             | 20       | 0.3964415 |          |     |          |     |          |     |          |     |          |     |



**INITIAL CALIBRATION DATA**  
**EPA 8270E**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GC00046                   | Instrument: | NT10            |
| Calibration Date: | 03/15/2023                | Column (1): | ZB-5MSi         |

Calibration Comments: 625.1/8270E ICAL

| Compound             | Level 07 |           | Level 08 |     | Level 09 |     | Level 10 |     | Level 11 |     | Level 12 |     |
|----------------------|----------|-----------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
|                      | Conc     | RRF       | Conc     | RRF | Conc     | RRF | Conc     | RRF | Conc     | RRF | Conc     | RRF |
| 2-Fluorobiphenyl     | 20       | 1.481453  |          |     |          |     |          |     |          |     |          |     |
| 2,4,6-Tribromophenol | 30       | 0.1805241 |          |     |          |     |          |     |          |     |          |     |
| p-Terphenyl-d14      | 20       | 1.204127  |          |     |          |     |          |     |          |     |          |     |



**INITIAL CALIBRATION DATA**  
**EPA 8270E**

|                       |                           |             |                 |
|-----------------------|---------------------------|-------------|-----------------|
| Laboratory:           | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:               | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:          | GC00046                   | Instrument: | NT10            |
| Calibration Date:     | 03/15/2023                | Column (1): | ZB-5MSi         |
| Calibration Comments: | 625.1/8270E ICAL          |             |                 |

| COMPOUND                   | Mean RRF  | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|----------------------------|-----------|---------|------------|----------|--------------------|---|
| Phenol                     | 1.649014  | 5.7     |            |          | RSD (15)           |   |
| 4-Methylphenol             | 1.266577  | 5.6     |            |          | RSD (15)           |   |
| Naphthalene                | 1.059659  | 4.3     |            |          | RSD (15)           |   |
| 2-Methylnaphthalene        | 0.7647129 | 2.2     |            |          | RSD (15)           |   |
| Acenaphthylene             | 1.996408  | 4.4     |            |          | RSD (15)           |   |
| Dimethylphthalate          | 1.299431  | 4.8     |            |          | RSD (15)           |   |
| Acenaphthene               | 1.233346  | 3.2     |            |          | RSD (15)           |   |
| Dibenzofuran               | 1.818754  | 3.7     |            |          | RSD (15)           |   |
| Fluorene                   | 1.430868  | 3.3     |            |          | RSD (15)           |   |
| Phenanthrene               | 1.090713  | 3.6     |            |          | RSD (15)           |   |
| Anthracene                 | 1.046276  | 4.9     |            |          | RSD (15)           |   |
| Fluoranthene               | 1.607269  | 8.5     |            |          | RSD (15)           |   |
| Pyrene                     | 1.648772  | 5.9     |            |          | RSD (15)           |   |
| Butylbenzylphthalate       | 0.5292894 | 22.5    |            | 0.9997   | QCOD (0.99)        |   |
| Benzo(a)anthracene         | 1.411877  | 2.9     |            |          | RSD (15)           |   |
| Chrysene                   | 1.379378  | 2.6     |            |          | RSD (15)           |   |
| bis(2-Ethylhexyl)phthalate | 0.5248968 | 18.5    |            | 0.9999   | QCOD (0.99)        |   |
| Benzo(a)anthracenes, Total | 1.251902  | 2.4     |            |          | RSD (15)           |   |
| Benzo(a)pyrene             | 1.159237  | 7.9     |            |          | RSD (15)           |   |
| Indeno(1,2,3-cd)pyrene     | 1.474827  | 13.5    |            |          | RSD (15)           |   |
| Dibenzo(a,h)anthracene     | 1.224434  | 13.4    |            |          | RSD (15)           |   |
| Benzo(g,h,i)perylene       | 1.276341  | 13.9    |            |          | RSD (15)           |   |
| 2-Fluorophenol             | 1.209646  | 6.2     |            |          | RSD (15)           |   |
| Phenol-d5                  | 1.586876  | 4.1     |            |          | RSD (15)           |   |
| 2-Chlorophenol-d4          | 1.35508   | 3.7     |            |          | RSD (15)           |   |
| 1,2-Dichlorobenzene-d4     | 0.9731556 | 3.9     |            |          | RSD (15)           |   |
| Nitrobenzene-d5            | 0.4037447 | 4.9     |            |          | RSD (15)           |   |
| 2-Fluorobiphenyl           | 1.582289  | 3.6     |            |          | RSD (15)           |   |
| 2,4,6-Tribromophenol       | 0.1585901 | 20.3    |            | 0.9993   | QCOD (0.99)        |   |
| p-Terphenyl-d14            | 1.238195  | 3.2     |            |          | RSD (15)           |   |



ANALYSIS SEQUENCE

SLC0228

Instrument ID: NT10      GCMS Description: Agilent 5975/MS http://bi  
Calibration ID: GC00046      GCMS Column ID: L002830  
MS EM Level: 1271 EV

| Lab Number   | Sample Name       | Analysis | Container | Order | STD ID  | ISTD ID | Analyzed         | File ID      | Analyst | Comments |
|--------------|-------------------|----------|-----------|-------|---------|---------|------------------|--------------|---------|----------|
| SLC0228-TUN1 | MS Tune           | QC       |           | 1     | K004775 |         | 03/15/2023 20:19 | NT10031501.D | JGR     |          |
| SLC0228-CAL7 | CAL 20            | QC       |           | 2     | K011111 | K010831 | 03/15/2023 20:34 | NT10031502.D | VTS     |          |
| SLC0228-CAL6 | CAL 10            | QC       |           | 3     | K011110 | K010831 | 03/15/2023 21:12 | NT10031503.D | VTS     |          |
| SLC0228-CAL5 | CAL 5             | QC       |           | 4     | K011109 | K010831 | 03/15/2023 21:50 | NT10031504.D | VTS     |          |
| SLC0228-CAL4 | CAL 2.5           | QC       |           | 5     | K011108 | K010831 | 03/15/2023 22:28 | NT10031505.D | VTS     |          |
| SLC0228-CAL3 | CAL 1.0           | QC       |           | 6     | K011107 | K010831 | 03/15/2023 23:06 | NT10031506.D | VTS     |          |
| SLC0228-CAL2 | CAL 0.5           | QC       |           | 7     | K011106 | K010831 | 03/15/2023 23:44 | NT10031507.D | VTS     |          |
| SLC0228-CAL1 | CAL 0.2           | QC       |           | 8     | K011105 | K010831 | 03/16/2023 00:22 | NT10031508.D | VTS     |          |
| SLC0228-SCV1 | SCV 5.0           | QC       |           | 9     | L002833 | K010831 | 03/16/2023 02:16 | NT10031511.D | VTS     |          |
| SLC0228-ICB1 | Initial Cal Blank | QC       |           | 10    | K005156 | K010831 | 03/16/2023 02:54 | NT10031512.D | VTS     |          |

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b

| Time | Filename | LabID        | ClientId     | DF |  |                |        |       |        |       |        |       |        |       |        |       |        |       |        |
|------|----------|--------------|--------------|----|--|----------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 1    | 2019     | NT10031501.D | SLC0228-TUN1 | 1  |  | NO ISTDs FOUND |        |       |        |       |        |       |        |       |        |       |        |       |        |
| 2    | 2034     | NT10031502.D | SLC0228-CAL7 | 1  |  | 9.30           | 177375 | 11.78 | 659656 | 15.38 | 352987 | 18.42 | 587447 | 23.46 | 356463 | 26.19 | 404994 | 24.49 | 617041 |
| 3    | 2112     | NT10031503.D | SLC0228-CAL6 | 1  |  | 9.30           | 174984 | 11.78 | 633941 | 15.38 | 344087 | 18.42 | 605930 | 23.46 | 437116 | 26.18 | 463440 | 24.48 | 674085 |
| 4    | 2150     | NT10031504.D | SLC0228-CAL5 | 1  |  | 9.30           | 171542 | 11.78 | 624466 | 15.38 | 337226 | 18.42 | 572849 | 23.45 | 347068 | 26.18 | 421549 | 24.48 | 500317 |
| 5    | 2228     | NT10031505.D | SLC0228-CAL4 | 1  |  | 9.30           | 158570 | 11.78 | 582079 | 15.38 | 306729 | 18.42 | 522311 | 23.45 | 356282 | 26.18 | 420725 | 24.48 | 471925 |
| 6    | 2306     | NT10031506.D | SLC0228-CAL3 | 1  |  | 9.29           | 172257 | 11.78 | 625894 | 15.38 | 330997 | 18.42 | 568685 | 23.45 | 426836 | 26.18 | 489106 | 24.48 | 555437 |
| 7    | 2344     | NT10031507.D | SLC0228-CAL2 | 1  |  | 9.30           | 176328 | 11.78 | 638835 | 15.38 | 333617 | 18.42 | 594262 | 23.45 | 428263 | 26.18 | 479116 | 24.48 | 530893 |
| 8    | 0022     | NT10031508.D | SLC0228-CAL1 | 1  |  | 9.29           | 173382 | 11.77 | 622719 | 15.38 | 323444 | 18.42 | 582036 | 23.45 | 443504 | 26.18 | 490725 | 24.48 | 540769 |
| 9    | 0100     | NT10031509.D | SEQ-SIM2     | 1  |  | 9.29           | 175576 | 11.78 | 624440 | 15.38 | 329518 | 18.42 | 581173 | 23.45 | 424576 | 26.18 | 472151 | 24.48 | 491201 |
| 10   | 0138     | NT10031510.D | SEQ-SIM1     | 1  |  | 9.30           | 172228 | 11.77 | 609518 | 15.38 | 313933 | 18.42 | 564567 | 23.45 | 413842 | 26.18 | 461161 | 24.48 | 469814 |
| 11   | 0216     | NT10031511.D | SLC0228-SCV1 | 1  |  | 9.30           | 154809 | 11.78 | 570882 | 15.38 | 303490 | 18.42 | 533431 | 23.46 | 435381 | 26.19 | 494648 | 24.49 | 660827 |
| 12   | 0254     | NT10031512.D | SLC0228-ICB1 | 1  |  | 9.30           | 173115 | 11.78 | 625865 | 15.38 | 328712 | 18.42 | 592693 | 23.45 | 442208 | 26.18 | 499804 | 24.48 | 526309 |



MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b

Instrument: nt10.i Date: 15-MAR-2023

| Time | Filename     | LabID        | DF | Manually Integrated Compounds                         |
|------|--------------|--------------|----|---|
| 2019 | NT10031501.D | SLC0228-TUN1 | 1  | NO MANUAL INTEGRATION                                 |
| 2034 | NT10031502.D | SLC0228-CAL7 | 1  | Benzoic acid,   |
| 2112 | NT10031503.D | SLC0228-CAL6 | 1  | 2,2'-oxybis(1-Chloropropane),                         |
| 2150 | NT10031504.D | SLC0228-CAL5 | 1  | 2,2'-oxybis(1-Chloropropane),                         |
| 2228 | NT10031505.D | SLC0228-CAL4 | 1  | 2,2'-oxybis(1-Chloropropane),                         |
| 2306 | NT10031506.D | SLC0228-CAL3 | 1  | 2,2'-oxybis(1-Chloropropane),                         |
| 2344 | NT10031507.D | SLC0228-CAL2 | 1  | 2,2'-oxybis(1-Chloropropane), Benzoic acid,           |
| 0022 | NT10031508.D | SLC0228-CAL1 | 1  | 2,2'-oxybis(1-Chloropropane), 1,2-Dichlorobenzene-d4, |
| 0100 | NT10031509.D | SEQ-SIM2     | 1  | NO MANUAL INTEGRATION                                 |
| 0138 | NT10031510.D | SEQ-SIM1     | 1  | NO MANUAL INTEGRATION                                 |
| 0216 | NT10031511.D | SLC0228-SCV1 | 1  | NO MANUAL INTEGRATION                                 |
| 0254 | NT10031512.D | SLC0228-ICB1 | 1  | NO MANUAL INTEGRATION                                 |

Security Status Report

Date: 16-Mar-2023 13:06

|              |             |                        |
|--------------|-------------|------------------------|
| NT10031501.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031502.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031503.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031504.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031505.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031506.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031507.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031508.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031509.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031510.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031511.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031512.D | Data Locked | van, 16-Mar-2023 13:06 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34  
 End Cal Date : 16-MAR-2023 00:22  
 Quant Method : ISTD  
 Origin : Force  
 Target Version : 4.14  
 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Last Edit : 16-Mar-2023 10:24 van

Calibration File Names:

- Level 1: \\target\share\chem3\nt10.i\20230315.b\NT10031508.D
- Level 2: \\target\share\chem3\nt10.i\20230315.b\NT10031507.D
- Level 3: \\target\share\chem3\nt10.i\20230315.b\NT10031506.D
- Level 4: \\target\share\chem3\nt10.i\20230315.b\NT10031505.D
- Level 5: \\target\share\chem3\nt10.i\20230315.b\NT10031504.D
- Level 6: \\target\share\chem3\nt10.i\20230315.b\NT10031503.D
- Level 7: \\target\share\chem3\nt10.i\20230315.b\NT10031502.D

| Compound               | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | Coefficients |    |    | %RSD<br>or R <sup>2</sup> |
|------------------------|-----------|-----------|---------|---------|---------|---------|-------|--------------|----|----|---------------------------|
|                        | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       | b            | m1 | m2 |                           |
| 186 Carbaryl           | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   | AVRG  | 0.000e+000   |    |    | 0.000e+000 <-             |
| 179 n-Decane           | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   | AVRG  | 0.000e+000   |    |    | 0.000e+000 <-             |
| 180 n-Octadecane       | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   | AVRG  | 0.000e+000   |    |    | 0.000e+000 <-             |
| 169 4-tert-Butylphenol | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   | AVRG  | 0.000e+000   |    |    | 0.000e+000                |

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Start Cal Date : 15-MAR-2023 20:34  
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 Quant Method : ISTD  
 Origin : Force  
 Target Version : 4.14  
 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Last Edit : 16-Mar-2023 10:24 van

| Compound                | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R <sup>2</sup> |
|-------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
|                         | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                           |
|                         | 20.0000   |           |         |         |         |         |       |   |              |    |                           |
|                         | Level 7   |           |         |         |         |         |       |   |              |    |                           |
| 170 N,N-Dimethylaniline | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                         | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 171 2,3-Dimethylaniline | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                         | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 172 2,4-Dimethylaniline | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                         | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 173 2,5-Dimethylaniline | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                         | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 174 2,6-Dimethylaniline | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                         | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 175 3,4-Dimethylaniline | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                         | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 176 3,5-Dimethylaniline | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                         | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |

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 Origin : Force  
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 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Last Edit : 16-Mar-2023 10:24 van

| Compound               | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
|                        | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                        | 20.0000   |           |         |         |         |         |       |   |              |    |                |
|                        | Level 7   |           |         |         |         |         |       |   |              |    |                |
| 177 p-Benzoquinone     | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                        | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 168 Pentachlorobenzene | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                        | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 145 4,4'-DDE           | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                        | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 146 4,4'-DDD           | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                        | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 147 4,4'-DDT           | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                        | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 148 Dieldrin           | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                        | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 149 TCMX               | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                        | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |

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 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Last Edit : 16-Mar-2023 10:24 van

| Compound                        | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|---------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
|                                 | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                                 | 20.0000   |           |         |         |         |         |       |   |              |    |                |
|                                 | Level 7   |           |         |         |         |         |       |   |              |    |                |
| 150 DCBP                        | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                 | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 138 Chlorobenzilate             | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                 | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 139 Isodrin                     | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                 | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 140 Diallate A                  | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                 | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 141 Diallate B                  | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                 | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 142 1,2-Dibromo-3-Chloropropane | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                 | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 135 2,3,5,6-Tetrachlorophenol   | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                 | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |

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 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Last Edit : 16-Mar-2023 10:24 van

| Compound                      | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|-------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
|                               | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                               | 20.0000   |           |         |         |         |         |       |   |              |    |                |
|                               | Level 7   |           |         |         |         |         |       |   |              |    |                |
| 136 2,3,4,5-tetrachlorophenol | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                               | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 133 Butylatedhydroxytoluene   | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                               | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 132 3,6-Dimethylphenanthrene  | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                               | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 131 1-Methylphenanthrene      | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                               | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 130 Dibenzothiophene          | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                               | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 129 1-Methylfluorene          | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                               | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 128 N-Hexadecane              | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                               | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |

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 Last Edit : 16-Mar-2023 10:24 van

| Compound                    | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|-----------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
|                             | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                             | 20.0000   |           |         |         |         |         |       |   |              |    |                |
|                             | Level 7   |           |         |         |         |         |       |   |              |    |                |
| 127 2-Isopropyl-naphthalene | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                             | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 126 N-Tetradecane           | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                             | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 144 alpha-Terpineol         | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                             | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 125 Safrole                 | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                             | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 124 3,4-Dimethylphenol      | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                             | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 123 Acetophenone            | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                             | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 122 Furfuraldehyde          | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                |
|                             | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |



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 Last Edit : 16-Mar-2023 10:24 van

| Compound                          | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b          | Coefficients |          | %RSD<br>or R <sup>2</sup> |
|-----------------------------------|-----------|-----------|---------|---------|---------|---------|-------|------------|--------------|----------|---------------------------|
|                                   | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |            | m1           | m2       |                           |
|                                   | 20.0000   |           |         |         |         |         |       |            |              |          |                           |
|                                   | Level 7   |           |         |         |         |         |       |            |              |          |                           |
| 143 1,4-Dioxane                   | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |            |              |          |                           |
|                                   | ++++      |           |         |         |         |         | AVRG  | 0.000e+000 |              |          | 0.000e+000<-              |
| 121 Quinoline                     | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |            |              |          |                           |
|                                   | ++++      |           |         |         |         |         | AVRG  | 0.000e+000 |              |          | 0.000e+000                |
| 120 2,3,4,6-Tetrachlorophenol     | 3113      | 11604     | 26430   | 82842   | 169344  | 374893  |       |            |              |          |                           |
|                                   | 832943    |           |         |         |         |         | QUAD  | 0.000e+000 | 2.48576      | -0.15608 | 0.99970                   |
| 178 2-Benzyl-4-Chlorophenol       | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |            |              |          |                           |
|                                   | ++++      |           |         |         |         |         | AVRG  | 0.000e+000 |              |          | 0.000e+000<-              |
| 119 7,12-Dimethylbenz(a)anthracen | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |            |              |          |                           |
|                                   | ++++      |           |         |         |         |         | AVRG  | 0.000e+000 |              |          | 0.000e+000                |
| 118 Triphenyl Phosphate           | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |            |              |          |                           |
|                                   | ++++      |           |         |         |         |         | AVRG  | 0.000e+000 |              |          | 0.000e+000<-              |
| 117 Butyl Diphenyl Phosphate      | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |            |              |          |                           |
|                                   | ++++      |           |         |         |         |         | AVRG  | 0.000e+000 |              |          | 0.000e+000<-              |

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| Compound                          | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|-----------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
|                                   | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                                   | 20.0000   |           |         |         |         |         |       |   |              |    |                |
|                                   | Level 7   |           |         |         |         |         |       |   |              |    |                |
| 116 Dibutyl Phenyl Phosphate      | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                   | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 115 Tributyl Phosphate            | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                   | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 114 Beta-Pinene                   | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                   | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 113 Diphenyl Oxide                | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                   | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 112 Biphenyl                      | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                   | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 1.36599   | 1.46769   | 1.42898 | 1.48330 | 1.43111 | 1.39920 |       |   |              |    |                |
|                                   | 1.39306   |           |         |         |         |         | AVRG  |   | 1.42419      |    | 2.92872        |
| 110 Tetrachloroguaiacol           | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                   | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |

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 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Last Edit : 16-Mar-2023 10:24 van

| Compound                    | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|-----------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
|                             | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                             | 20.0000   |           |         |         |         |         |       |   |              |    |                |
|                             | Level 7   |           |         |         |         |         |       |   |              |    |                |
| 109 3,4,5-Trichloroguaiacol | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                             | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 181 3,4,6-Trichloroguaiacol | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                             | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 108 4,5,6-Trichloroguaiacol | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                             | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 184 3,4-Dichloroguaiacol    | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                             | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 107 4,5-Dichloroguaiacol    | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                             | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 182 4,6-Dichloroguaiacol    | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                             | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |
| 185 4-Chloroguaiacol        | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                             | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-  |

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Start Cal Date : 15-MAR-2023 20:34  
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 Quant Method : ISTD  
 Origin : Force  
 Target Version : 4.14  
 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Last Edit : 16-Mar-2023 10:24 van

| Compound                       | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R <sup>2</sup> |
|--------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
|                                | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                           |
|                                | 20.0000   |           |         |         |         |         |       |   |              |    |                           |
|                                | Level 7   |           |         |         |         |         |       |   |              |    |                           |
| 106 Guaiacol                   | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                                | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-             |
| 105 1-methylnaphthalene        | 0.70080   | 0.71097   | 0.71031 | 0.71759 | 0.70593 | 0.69611 |       |   |              |    |                           |
|                                | 0.66277   |           |         |         |         |         | AVRG  |   | 0.70064      |    | 2.58648                   |
| 151 1,2,4,5-Tetrachlorobenzene | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                                | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-             |
| 152 Benzo(e)pyrene             | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                                | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 153 Chlorpyrifos               | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                                | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 154 Diazinon                   | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                                | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 155 Kelthane                   | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                                | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |

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 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
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| Compound                           | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|------------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
|                                    | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                                    | 20.0000   |           |         |         |         |         |       |   |              |    |                |
|                                    | Level 7   |           |         |         |         |         |       |   |              |    |                |
| 156 Methyl Parathion               | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                    | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 157 Ethyl Parathion                | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                    | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 158 Ethion                         | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                    | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 159 4-Nonylphenol                  | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                    | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 160 Tetraethyl Tin                 | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                    | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 161 1,2,3-Trichloronaphthalene     | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                    | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 162 1,2,3,4-Tetrachloronaphthalene | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                    | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |

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 Last Edit : 16-Mar-2023 10:24 van

| Compound                          | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|-----------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
|                                   | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                                   | 20.0000   |           |         |         |         |         |       |   |              |    |                |
|                                   | Level 7   |           |         |         |         |         |       |   |              |    |                |
| 163 1,2,3,5,8-Pentachloronaphthal | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                   | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 164 1,2,3,4,6,7-Hexachloronaphtha | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                   | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 165 1,2,3,4,5,6,7-Heptachloronaph | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                   | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 166 Octachloronaphthalene         | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                   | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 167 2,2',4,4',5-Pentabromobipheny | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                   | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 3 Phenol                          | 1.62208   | 1.74439   | 1.73891 | 1.74173 | 1.62645 | 1.54845 |       |   |              |    |                |
|                                   | 1.52108   |           |         |         |         |         | AVRG  |   | 1.64901      |    | 5.72558        |
| 4 Bis(2-Chloroethyl)ether         | 1.27683   | 1.24672   | 1.27324 | 1.27820 | 1.20197 | 1.15937 |       |   |              |    |                |
|                                   | 1.12492   |           |         |         |         |         | AVRG  |   | 1.22304      |    | 5.07805        |

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 Last Edit : 16-Mar-2023 10:24 van

| Compound                        | 0.2000000          | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R <sup>2</sup> |
|---------------------------------|--------------------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
|                                 | Level 1            | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                           |
|                                 | 20.0000            |           |         |         |         |         |       |   |              |    |                           |
|                                 | Level 7            |           |         |         |         |         |       |   |              |    |                           |
| 6 2-Chlorophenol                | 1.31836<br>1.43943 | 1.41731   | 1.42385 | 1.43622 | 1.37595 | 1.46817 |       |   |              |    |                           |
|                                 |                    |           |         |         |         |         | AVRG  |   | 1.41133      |    | 3.51032                   |
| 7 1,3-Dichlorobenzene           | 1.56095<br>1.34684 | 1.60573   | 1.54200 | 1.54039 | 1.43756 | 1.41097 |       |   |              |    |                           |
|                                 |                    |           |         |         |         |         | AVRG  |   | 1.49206      |    | 6.30691                   |
| 9 1,4-Dichlorobenzene           | 1.48239<br>1.34165 | 1.47806   | 1.50605 | 1.46974 | 1.41044 | 1.40120 |       |   |              |    |                           |
|                                 |                    |           |         |         |         |         | AVRG  |   | 1.44136      |    | 4.05847                   |
| 11 Benzyl alcohol               | 0.61725<br>0.81015 | 0.73191   | 0.78594 | 0.84185 | 0.81966 | 0.81121 |       |   |              |    |                           |
|                                 |                    |           |         |         |         |         | AVRG  |   | 0.77400      |    | 9.98909                   |
| 12 1,2-Dichlorobenzene          | 1.45921<br>1.30961 | 1.48260   | 1.47819 | 1.46666 | 1.37638 | 1.35694 |       |   |              |    |                           |
|                                 |                    |           |         |         |         |         | AVRG  |   | 1.41851      |    | 4.90685                   |
| 13 2-Methylphenol               | 1.09919<br>1.17082 | 1.21769   | 1.25424 | 1.27936 | 1.21240 | 1.18086 |       |   |              |    |                           |
|                                 |                    |           |         |         |         |         | AVRG  |   | 1.20208      |    | 4.92825                   |
| 14 2,2'-oxybis(1-Chloropropane) | 0.43522<br>0.40701 | 0.42661   | 0.43105 | 0.42276 | 0.39592 | 0.39745 |       |   |              |    |                           |
|                                 |                    |           |         |         |         |         | AVRG  |   | 0.41658      |    | 3.89547                   |

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 Last Edit : 16-Mar-2023 10:24 van

| Compound                      | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R <sup>2</sup> |
|-------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
|                               | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                           |
|                               | 20.0000   |           |         |         |         |         |       |   |              |    |                           |
|                               | Level 7   |           |         |         |         |         |       |   |              |    |                           |
| 15 4-Methylphenol             | 1.14383   | 1.24400   | 1.30788 | 1.37440 | 1.28697 | 1.25011 |       |   |              |    |                           |
|                               | 1.25884   |           |         |         |         |         | AVRG  |   | 1.26658      |    | 5.55066                   |
| 16 N-Nitroso-di-n-propylamine | 0.88706   | 0.94832   | 0.97868 | 1.00698 | 0.96681 | 0.92156 |       |   |              |    |                           |
|                               | 0.93481   |           |         |         |         |         | AVRG  |   | 0.94917      |    | 4.15918                   |
| 17 Hexachloroethane           | 0.58022   | 0.59004   | 0.60326 | 0.60841 | 0.58693 | 0.58291 |       |   |              |    |                           |
|                               | 0.58784   |           |         |         |         |         | AVRG  |   | 0.59137      |    | 1.77557                   |
| 19 Nitrobenzene               | 0.38078   | 0.40475   | 0.41137 | 0.41334 | 0.39831 | 0.38702 |       |   |              |    |                           |
|                               | 0.37799   |           |         |         |         |         | AVRG  |   | 0.39622      |    | 3.65024                   |
| 20 Isophorone                 | 0.43358   | 0.46625   | 0.48978 | 0.51777 | 0.50778 | 0.56780 |       |   |              |    |                           |
|                               | 0.56515   |           |         |         |         |         | AVRG  |   | 0.50687      |    | 9.71300                   |
| 21 2-Nitrophenol              | ++++      | 0.13597   | 0.15387 | 0.18600 | 0.19598 | 0.19551 |       |   |              |    |                           |
|                               | 0.19693   |           |         |         |         |         | AVRG  |   | 0.17738      |    | 14.69885                  |
| 22 2,4-Dimethylphenol         | 0.34977   | 0.37592   | 0.37563 | 0.37929 | 0.35984 | 0.35410 |       |   |              |    |                           |
|                               | 0.33882   |           |         |         |         |         | AVRG  |   | 0.36191      |    | 4.26888                   |



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| Compound                      | 0.2000000          | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b          | Coefficients |          | %RSD<br>or R^2 |
|-------------------------------|--------------------|-----------|---------|---------|---------|---------|-------|------------|--------------|----------|----------------|
|                               | Level 1            | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |            | m1           | m2       |                |
|                               | 20.0000            |           |         |         |         |         |       |            |              |          |                |
|                               | Level 7            |           |         |         |         |         |       |            |              |          |                |
| 23 Bis(2-Chloroethoxy)methane | 0.34150<br>0.31648 | 0.35424   | 0.35450 | 0.35426 | 0.32695 | 0.32213 |       |            |              |          |                |
|                               |                    |           |         |         |         |         | AVRG  |            | 0.33858      |          | 4.89393        |
| 24 Benzoic acid               | ++++<br>3461038    | 22417     | 66707   | 255448  | 660270  | 1448000 |       |            |              |          |                |
|                               |                    |           |         |         |         |         | QUAD  | 0.000e+000 | 4.94987      | -0.21794 | 0.99939        |
| 25 2,4-Dichlorophenol         | 0.23282<br>0.28812 | 0.27832   | 0.29083 | 0.34192 | 0.30456 | 0.30206 |       |            |              |          |                |
|                               |                    |           |         |         |         |         | AVRG  |            | 0.29123      |          | 11.26110       |
| 26 1,2,4-Trichlorobenzene     | 0.36331<br>0.30769 | 0.36162   | 0.35565 | 0.34701 | 0.33055 | 0.32721 |       |            |              |          |                |
|                               |                    |           |         |         |         |         | AVRG  |            | 0.34186      |          | 6.06312        |
| 28 Naphthalene                | 1.11424<br>0.98022 | 1.09175   | 1.07629 | 1.08516 | 1.03942 | 1.03054 |       |            |              |          |                |
|                               |                    |           |         |         |         |         | AVRG  |            | 1.05966      |          | 4.30817        |
| 29 4-Chloroaniline            | 0.37193<br>0.41465 | 0.41433   | 0.41901 | 0.42776 | 0.42475 | 0.42130 |       |            |              |          |                |
|                               |                    |           |         |         |         |         | AVRG  |            | 0.41339      |          | 4.58016        |
| 30 Hexachlorobutadiene        | 0.20420<br>0.18759 | 0.20378   | 0.20957 | 0.20328 | 0.19562 | 0.19813 |       |            |              |          |                |
|                               |                    |           |         |         |         |         | AVRG  |            | 0.20031      |          | 3.58980        |

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| Compound                     | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R <sup>2</sup> |
|------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
|                              | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                           |
|                              | 20.0000   |           |         |         |         |         |       |   |              |    |                           |
|                              | Level 7   |           |         |         |         |         |       |   |              |    |                           |
| 31 4-Chloro-3-methylphenol   | ++++      | 0.29534   | 0.30559 | 0.32408 | 0.32488 | 0.32531 |       |   |              |    |                           |
|                              | 0.31645   |           |         |         |         |         | AVRG  |   | 0.31527      |    | 3.91891                   |
| 32 2-Methylnaphthalene       | 0.75681   | 0.76700   | 0.77315 | 0.79056 | 0.77004 | 0.76034 |       |   |              |    |                           |
|                              | 0.73510   |           |         |         |         |         | AVRG  |   | 0.76471      |    | 2.22131                   |
| 33 Hexachlorocyclopentadiene | ++++      | 0.32165   | 0.33383 | 0.38329 | 0.38506 | 0.39494 |       |   |              |    |                           |
|                              | 0.40240   |           |         |         |         |         | AVRG  |   | 0.37020      |    | 9.13748                   |
| 34 2,4,6-Trichlorophenol     | ++++      | 0.34057   | 0.37275 | 0.40914 | 0.40785 | 0.42738 |       |   |              |    |                           |
|                              | 0.41440   |           |         |         |         |         | AVRG  |   | 0.39535      |    | 8.19371                   |
| 35 2,4,5-Trichlorophenol     | ++++      | 0.39438   | 0.41480 | 0.45747 | 0.45138 | 0.46294 |       |   |              |    |                           |
|                              | 0.45473   |           |         |         |         |         | AVRG  |   | 0.43928      |    | 6.35086                   |
| 37 2-Chloronaphthalene       | 1.31831   | 1.32063   | 1.30168 | 1.33284 | 1.25800 | 1.22443 |       |   |              |    |                           |
|                              | 1.21247   |           |         |         |         |         | AVRG  |   | 1.28119      |    | 3.83736                   |
| 38 2-Nitroaniline            | ++++      | 0.31701   | 0.34135 | 0.38455 | 0.37858 | 0.37163 |       |   |              |    |                           |
|                              | 0.36621   |           |         |         |         |         | AVRG  |   | 0.35989      |    | 7.15743                   |

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| Compound              | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b          | Coefficients |          | %RSD<br>or R <sup>2</sup> |
|-----------------------|-----------|-----------|---------|---------|---------|---------|-------|------------|--------------|----------|---------------------------|
|                       | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |            | m1           | m2       |                           |
|                       | 20.0000   |           |         |         |         |         |       |            |              |          |                           |
|                       | Level 7   |           |         |         |         |         |       |            |              |          |                           |
| 39 Dimethylphthalate  | 1.32338   | 1.36926   | 1.34576 | 1.33799 | 1.26731 | 1.25985 |       |            |              |          |                           |
|                       | 1.19245   |           |         |         |         |         | AVRG  |            | 1.29943      |          | 4.77776                   |
| 40 Acenaphthylene     | 1.91415   | 2.07587   | 2.06493 | 2.10180 | 1.96913 | 1.98437 |       |            |              |          |                           |
|                       | 1.86462   |           |         |         |         |         | AVRG  |            | 1.99641      |          | 4.43977                   |
| 41 2,6-Dinitrotoluene | ++++      | 0.24183   | 0.26775 | 0.29467 | 0.29272 | 0.29827 |       |            |              |          |                           |
|                       | 0.28900   |           |         |         |         |         | AVRG  |            | 0.28071      |          | 7.79723                   |
| 43 3-Nitroaniline     | ++++      | 0.28085   | 0.30392 | 0.33270 | 0.32419 | 0.33426 |       |            |              |          |                           |
|                       | 0.32509   |           |         |         |         |         | AVRG  |            | 0.31683      |          | 6.52864                   |
| 44 Acenaphthene       | 1.28251   | 1.26169   | 1.25479 | 1.25637 | 1.19640 | 1.20560 |       |            |              |          |                           |
|                       | 1.17607   |           |         |         |         |         | AVRG  |            | 1.23335      |          | 3.24756                   |
| 45 2,4-Dinitrophenol  | ++++      | 6815      | 25006   | 95470   | 266923  | 674586  |       |            |              |          |                           |
|                       | 1465989   |           |         |         |         |         | QUAD  | 0.000e+000 | 5.90362      | -0.26772 | 0.99767                   |
| 46 Dibenzofuran       | 1.83679   | 1.89233   | 1.84203 | 1.89221 | 1.79473 | 1.76343 |       |            |              |          |                           |
|                       | 1.70976   |           |         |         |         |         | AVRG  |            | 1.81875      |          | 3.70158                   |

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 Quant Method : ISTD  
 Origin : Force  
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 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Last Edit : 16-Mar-2023 10:24 van

| Compound                      | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | Coefficients |         |          | %RSD<br>or R^2 |
|-------------------------------|-----------|-----------|---------|---------|---------|---------|-------|--------------|---------|----------|----------------|
|                               | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       | b            | m1      | m2       |                |
|                               | 20.0000   |           |         |         |         |         |       |              |         |          |                |
|                               | Level 7   |           |         |         |         |         |       |              |         |          |                |
| 47 4-Nitrophenol              | +++++     | 10811     | 26972   | 72524   | 160601  | 346416  |       |              |         |          |                |
|                               | 684596    |           |         |         |         |         | QUAD  | 0.000e+000   | 5.01739 | 0.06496  | 0.99964        |
| 48 2,4-Dinitrotoluene         | 7302      | 27229     | 61485   | 155514  | 337620  | 723393  |       |              |         |          |                |
|                               | 1405429   |           |         |         |         |         | QUAD  | 0.000e+000   | 2.35401 | 0.03800  | 0.99969        |
| 49 Fluorene                   | 1.40605   | 1.45103   | 1.47671 | 1.50043 | 1.40082 | 1.41469 |       |              |         |          |                |
|                               | 1.36635   |           |         |         |         |         | AVRG  |              | 1.43087 |          | 3.28917        |
| 50 Diethylphthalate           | 1.20144   | 1.24989   | 1.30138 | 1.31975 | 1.24786 | 1.27783 |       |              |         |          |                |
|                               | 1.32643   |           |         |         |         |         | AVRG  |              | 1.27494 |          | 3.52654        |
| 51 4-Chlorophenyl-phenylether | 0.69799   | 0.68992   | 0.68629 | 0.69085 | 0.66721 | 0.67242 |       |              |         |          |                |
|                               | 0.65828   |           |         |         |         |         | AVRG  |              | 0.68042 |          | 2.13873        |
| 52 4-Nitroaniline             | +++++     | 0.27470   | 0.28009 | 0.23607 | 0.29239 | 0.32686 |       |              |         |          |                |
|                               | 0.30307   |           |         |         |         |         | AVRG  |              | 0.28553 |          | 10.68771       |
| 53 4,6-Dinitro-2-methylphenol | +++++     | 16474     | 45458   | 137459  | 335578  | 794181  |       |              |         |          |                |
|                               | 1560214   |           |         |         |         |         | QUAD  | 0.000e+000   | 8.27405 | -0.28973 | 0.99917        |

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 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Last Edit : 16-Mar-2023 10:24 van

| Compound                     | 0.2000000           | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b          | Coefficients |          | %RSD<br>or R^2 |
|------------------------------|---------------------|-----------|---------|---------|---------|---------|-------|------------|--------------|----------|----------------|
|                              | Level 1             | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |            | m1           | m2       |                |
|                              | 20.0000             |           |         |         |         |         |       |            |              |          |                |
|                              | Level 7             |           |         |         |         |         |       |            |              |          |                |
| 54 N-Nitrosodiphenylamine    | 0.52887 <br>0.51457 | 0.55193   | 0.55561 | 0.56260 | 0.51812 | 0.51180 |       |            |              |          |                |
|                              |                     |           |         |         |         |         | AVRG  |            | 0.53479      |          | 4.00425        |
| 56 4-Bromophenyl-phenylether | 0.19782 <br>0.22827 | 0.21343   | 0.22682 | 0.23565 | 0.23145 | 0.23263 |       |            |              |          |                |
|                              |                     |           |         |         |         |         | AVRG  |            | 0.22372      |          | 6.02001        |
| 57 Hexachlorobenzene         | 0.24985 <br>0.21902 | 0.23051   | 0.24765 | 0.24355 | 0.22752 | 0.22384 |       |            |              |          |                |
|                              |                     |           |         |         |         |         | AVRG  |            | 0.23456      |          | 5.24539        |
| 58 Pentachlorophenol         | ++++ <br>885410     | 11460     | 28829   | 82114   | 191672  | 452371  |       |            |              |          |                |
|                              |                     |           |         |         |         |         | QUAD  | 0.000e+000 | 7.20876      | -0.39477 | 0.99931        |
| 60 Phenanthrene              | 1.13220 <br>1.04296 | 1.10631   | 1.12088 | 1.12703 | 1.05199 | 1.05362 |       |            |              |          |                |
|                              |                     |           |         |         |         |         | AVRG  |            | 1.09071      |          | 3.61900        |
| 61 Anthracene                | 0.95571 <br>1.04142 | 1.01224   | 1.06526 | 1.11534 | 1.05296 | 1.08099 |       |            |              |          |                |
|                              |                     |           |         |         |         |         | AVRG  |            | 1.04628      |          | 4.89905        |
| 62 Carbazole                 | 0.88933 <br>0.88743 | 0.95562   | 0.99664 | 0.98309 | 0.89914 | 0.95168 |       |            |              |          |                |
|                              |                     |           |         |         |         |         | AVRG  |            | 0.93756      |          | 4.84977        |

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| Compound                  | 0.2000000          | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | Coefficients |         |          | %RSD<br>or R <sup>2</sup> |
|---------------------------|--------------------|-----------|---------|---------|---------|---------|-------|--------------|---------|----------|---------------------------|
|                           | Level 1            | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       | b            | m1      | m2       |                           |
|                           | 20.0000            |           |         |         |         |         |       |              |         |          |                           |
|                           | Level 7            |           |         |         |         |         |       |              |         |          |                           |
| 63 Di-n-butylphthalate    | 22443<br>3613228   | 69653     | 154356  | 388084  | 843782  | 1947970 | QUAD  | 0.000e+000   | 0.79314 | 0.00278  | 0.99940                   |
| 64 Fluoranthene           | 1.36328<br>1.73056 | 1.52056   | 1.56197 | 1.69351 | 1.74914 | 1.63187 | AVRG  |              | 1.60727 |          | 8.51839                   |
| 65 Pyrene                 | 1.45604<br>1.71035 | 1.60944   | 1.63082 | 1.72763 | 1.73920 | 1.66793 | AVRG  |              | 1.64877 |          | 5.94096                   |
| 67 Butylbenzylphthalate   | 7408<br>1204454    | 23199     | 51900   | 123600  | 257731  | 684422  | QUAD  | 0.000e+000   | 1.72914 | -0.07421 | 0.99990                   |
| 68 Benzo(a)anthracene     | 1.36644<br>1.37177 | 1.42781   | 1.43022 | 1.48555 | 1.41212 | 1.38924 | AVRG  |              | 1.41188 |          | 2.92087                   |
| 70 3,3'-Dichlorobenzidine | ++++<br>0.50355    | 0.41680   | 0.45352 | 0.46701 | 0.40921 | 0.46337 | AVRG  |              | 0.45224 |          | 7.71340                   |
| 71 Chrysene               | 1.35945<br>1.32243 | 1.42987   | 1.40133 | 1.40717 | 1.37420 | 1.36119 | AVRG  |              | 1.37938 |          | 2.61415                   |

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| Compound                      | 0.2000000          | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b    | Coefficients |         | %RSD<br>or R <sup>2</sup> |          |
|-------------------------------|--------------------|-----------|---------|---------|---------|---------|-------|------|--------------|---------|---------------------------|----------|
|                               | Level 1            | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |      | m1           | m2      |                           |          |
|                               | 20.0000            |           |         |         |         |         |       |      |              |         |                           |          |
|                               | Level 7            |           |         |         |         |         |       |      |              |         |                           |          |
| 72 bis(2-Ethylhexyl)phthalate | 9248<br>1828785    | 29596     | 73435   | 172996  | 367877  | 994125  |       | QUAD | 0.000e+000   | 1.70957 | -0.00774                  | 0.99996  |
| 73 Di-n-octylphthalate        | 1.13505<br>0.97997 | 1.06235   | 1.05217 | 1.05751 | 1.02687 | 1.01350 |       | AVRG |              | 1.04677 |                           | 4.63862  |
| 74 Benzo(b)fluoranthene       | 1.17883<br>1.25750 | 1.29968   | 1.27339 | 1.34308 | 1.32964 | 1.39410 |       | AVRG |              | 1.29660 |                           | 5.33463  |
| 75 Benzo(k)fluoranthene       | 1.32608<br>1.35881 | 1.27815   | 1.33166 | 1.33571 | 1.27907 | 1.30669 |       | AVRG |              | 1.31660 |                           | 2.28881  |
| 187 Total Benzofluoranthenes  | 1.19572<br>1.24878 | 1.24517   | 1.25308 | 1.28055 | 1.25155 | 1.28847 |       | AVRG |              | 1.25190 |                           | 2.38989  |
| 76 Benzo(a)pyrene             | 0.99274<br>1.23814 | 1.10134   | 1.12232 | 1.22032 | 1.20639 | 1.23341 |       | AVRG |              | 1.15924 |                           | 7.88419  |
| 78 Indeno(1,2,3-cd)pyrene     | 1.12152<br>1.66662 | 1.32292   | 1.40994 | 1.59027 | 1.62894 | 1.58357 |       | AVRG |              | 1.47483 |                           | 13.49853 |

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| Compound                  | 0.2000000          | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R <sup>2</sup> |
|---------------------------|--------------------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
|                           | Level 1            | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                           |
|                           | 20.0000            |           |         |         |         |         |       |   |              |    |                           |
|                           | Level 7            |           |         |         |         |         |       |   |              |    |                           |
| 79 Dibenzo(a,h)anthracene | 0.92561<br>1.38242 | 1.10908   | 1.17688 | 1.32096 | 1.35010 | 1.30600 |       |   |              |    |                           |
|                           |                    |           |         |         |         |         | AVRG  |   | 1.22443      |    | 13.40261                  |
| 80 Benzo(g,h,i)perylene   | 0.97961<br>1.46879 | 1.13240   | 1.20196 | 1.35740 | 1.42789 | 1.36633 |       |   |              |    |                           |
|                           |                    |           |         |         |         |         | AVRG  |   | 1.27634      |    | 13.90451                  |
| 90 N-Nitrosodimethylamine | 0.77338<br>0.64576 | 0.85958   | 0.80600 | 0.83443 | 0.77037 | 0.71258 |       |   |              |    |                           |
|                           |                    |           |         |         |         |         | AVRG  |   | 0.77173      |    | 9.49214                   |
| 91 Aniline                | 1.71731<br>1.58456 | 1.77469   | 1.73024 | 1.75620 | 1.67046 | 1.59418 |       |   |              |    |                           |
|                           |                    |           |         |         |         |         | AVRG  |   | 1.68966      |    | 4.49435                   |
| 92 1,2-Diphenylhydrazine  | +++++              | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                           | +++++              |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 93 Benzidine              | +++++<br>0.64270   | 0.58897   | 0.67279 | 0.70566 | 0.65150 | 0.69961 |       |   |              |    |                           |
|                           |                    |           |         |         |         |         | AVRG  |   | 0.66021      |    | 6.50918                   |
| 96 p-Cymene               | +++++<br>+++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                           |
|                           |                    |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |



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| Compound               | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R <sup>2</sup> |
|------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
|                        | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                           |
|                        | 20.0000   |           |         |         |         |         |       |   |              |    |                           |
|                        | Level 7   |           |         |         |         |         |       |   |              |    |                           |
| 97 Caffeine            | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                           |
|                        | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 98 Retene              | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                           |
|                        | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-             |
| 99 Perylene            | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                           |
|                        | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-             |
| 100 3-beta-Coprostanol | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                           |
|                        | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-             |
| 101 Cholesterol        | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                           |
|                        | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000 <-             |
| 102 beta-Sitosterol    | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |   |              |    |                           |
|                        | ++++      |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 103 Pyridine           | 1.12693   | 1.33308   | 1.27029 | 1.29268 | 1.21465 | 1.05774 |       |   |              |    |                           |
|                        | 1.00113   |           |         |         |         |         | AVRG  |   | 1.18522      |    | 10.61953                  |

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| Compound                      | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b          | Coefficients |            | %RSD<br>or R^2 |
|-------------------------------|-----------|-----------|---------|---------|---------|---------|-------|------------|--------------|------------|----------------|
|                               | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |            | m1           | m2         |                |
|                               | 20.0000   |           |         |         |         |         |       |            |              |            |                |
|                               | Level 7   |           |         |         |         |         |       |            |              |            |                |
| 188 2,6-Dichlorophenol        | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |            |              |            |                |
|                               | ++++      |           |         |         |         |         | AVRG  | 0.000e+000 |              | 0.000e+000 | <-             |
| 189 N-Nitrosomethylethylamine | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |            |              |            |                |
|                               | ++++      |           |         |         |         |         | AVRG  | 0.000e+000 |              | 0.000e+000 | <-             |
| \$ 1 2-Fluorophenol           | 1.17021   | 1.26168   | 1.26677 | 1.30397 | 1.21035 | 1.16777 |       |            |              |            |                |
|                               | 1.08677   |           |         |         |         |         | AVRG  | 1.20965    |              | 6.15640    |                |
| \$ 137 d8-1,4-Dioxane         | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |            |              |            |                |
|                               | ++++      |           |         |         |         |         | AVRG  | 0.000e+000 |              | 0.000e+000 | <-             |
| \$ 2 Phenol-d5                | 1.48543   | 1.59037   | 1.61833 | 1.69140 | 1.60972 | 1.57552 |       |            |              |            |                |
|                               | 1.53737   |           |         |         |         |         | AVRG  | 1.58688    |              | 4.09370    |                |
| \$ 5 2-Chlorophenol-d4        | 1.26134   | 1.35529   | 1.38444 | 1.42017 | 1.37490 | 1.35740 |       |            |              |            |                |
|                               | 1.33202   |           |         |         |         |         | AVRG  | 1.35508    |              | 3.66724    |                |
| \$ 10 1,2-Dichlorobenzene-d4  | 0.94208   | 0.98008   | 1.02521 | 1.02357 | 0.94902 | 0.95435 |       |            |              |            |                |
|                               | 0.93778   |           |         |         |         |         | AVRG  | 0.97316    |              | 3.85694    |                |

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| Compound                   | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b          | Coefficients |         | %RSD<br>or R <sup>2</sup> |
|----------------------------|-----------|-----------|---------|---------|---------|---------|-------|------------|--------------|---------|---------------------------|
|                            | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |            | m1           | m2      |                           |
|                            | 20.0000   |           |         |         |         |         |       |            |              |         |                           |
|                            | Level 7   |           |         |         |         |         |       |            |              |         |                           |
| \$ 18 Nitrobenzene-d5      | 0.36508   | 0.39869   | 0.41015 | 0.42611 | 0.41870 | 0.41105 |       |            |              |         |                           |
|                            | 0.39644   |           |         |         |         |         | AVRG  |            | 0.40374      |         | 4.94574                   |
| \$ 36 2-Fluorobiphenyl     | 1.62353   | 1.63071   | 1.61693 | 1.62588 | 1.55327 | 1.54426 |       |            |              |         |                           |
|                            | 1.48145   |           |         |         |         |         | AVRG  |            | 1.58229      |         | 3.61230                   |
| \$ 55 2,4,6-Tribromophenol | 2409      | 8451      | 18793   | 50739   | 112412  | 244599  |       |            |              |         |                           |
|                            | 477920    |           |         |         |         |         | QUAD  | 0.000e+000 | 5.31174      | 0.15583 | 0.99955                   |
| \$ 66 Terphenyl-d14        | 1.18457   | 1.24342   | 1.26852 | 1.29524 | 1.26057 | 1.21091 |       |            |              |         |                           |
|                            | 1.20413   |           |         |         |         |         | AVRG  |            | 1.23819      |         | 3.21084                   |
| \$ 85 p-Cresol-d4          | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |            |              |         |                           |
|                            | ++++      |           |         |         |         |         | AVRG  |            | 0.000e+000   |         | 0.000e+000                |
| \$ 86 Anthracene-d10       | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |            |              |         |                           |
|                            | ++++      |           |         |         |         |         | AVRG  |            | 0.000e+000   |         | 0.000e+000                |
| \$ 87 Fluoranthene-d10     | ++++      | ++++      | ++++    | ++++    | ++++    | ++++    |       |            |              |         |                           |
|                            | ++++      |           |         |         |         |         | AVRG  |            | 0.000e+000   |         | 0.000e+000                |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34  
 End Cal Date : 16-MAR-2023 00:22  
 Quant Method : ISTD  
 Origin : Force  
 Target Version : 4.14  
 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Last Edit : 16-Mar-2023 10:24 van

| Compound                        | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | 5.0000  | 10.0000 | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|---------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
|                                 | Level 1   | Level 2   | Level 3 | Level 4 | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                                 | 20.0000   |           |         |         |         |         |       |   |              |    |                |
|                                 | Level 7   |           |         |         |         |         |       |   |              |    |                |
| -----                           |           |           |         |         |         |         |       |   |              |    |                |
| \$ 88 Dibenz(a,h)anthracene-d14 | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                 | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| -----                           |           |           |         |         |         |         |       |   |              |    |                |
| \$ 89 Diphenyl-d10              | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                 | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| -----                           |           |           |         |         |         |         |       |   |              |    |                |
| \$ 95 D10-1-methylnaphthalene   | +++++     | +++++     | +++++   | +++++   | +++++   | +++++   |       |   |              |    |                |
|                                 | +++++     |           |         |         |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| -----                           |           |           |         |         |         |         |       |   |              |    |                |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34  
End Cal Date : 16-MAR-2023 00:22  
Quant Method : ISTD  
Origin : Force  
Target Version : 4.14  
Integrator : HP RTE  
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
Last Edit : 16-Mar-2023 10:24 van

| Curve    | Formula                     | Units    |
|----------|-----------------------------|----------|
| Averaged | Amt = Rsp/m1                | Response |
| Quad     | Amt = b + m1*Rsp + m2*Rsp^2 | Response |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m  
Batch File: \\target\share\chem3\nt10.i\20230315.b  
Inst ID: nt10.i

|            |             |             |             |             |             |             |             |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| ID:        | RT01        | RT02        | RT03        | RT04        | RT05        | RT06        | RT07        |
| FILENAME:  | NT10031502  | NT10031503  | NT10031504  | NT10031505  | NT10031506  | NT10031507  | NT10031508  |
| INJ. DATE: | 15-MAR-2023 | 15-MAR-2023 | 15-MAR-2023 | 15-MAR-2023 | 15-MAR-2023 | 15-MAR-2023 | 16-MAR-2023 |
| INJ. TIME: | 20:34       | 21:12       | 21:50       | 22:28       | 23:06       | 23:44       | 00:22       |

| Compound                | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | RT07  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| \$ 1 2-Fluorophenol     | 7.068 | 7.068 | 7.068 | 7.068 | 7.068 | 7.068 | 7.068 | 7.068    | 4.068-10.068  | 7.068  | 0.000   |
| 186 Carbaryl            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 18.785   | 15.785-21.785 | +++++  | +++++   |
| 179 n-Decane            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.645    | 5.645-11.645  | +++++  | +++++   |
| 180 n-Octadecane        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 17.455   | 14.455-20.455 | +++++  | +++++   |
| 169 4-tert-Butylphenol  | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.696   | 17.696-23.696 | +++++  | +++++   |
| 170 N,N-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 19.219   | 16.219-22.219 | +++++  | +++++   |
| 171 2,3-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 19.559   | 16.559-22.559 | +++++  | +++++   |
| 172 2,4-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 19.559   | 16.559-22.559 | +++++  | +++++   |
| 173 2,5-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 22.949   | 19.949-25.949 | +++++  | +++++   |
| 174 2,6-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 19.196   | 16.196-22.196 | +++++  | +++++   |
| 175 3,4-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 19.559   | 16.559-22.559 | +++++  | +++++   |
| 176 3,5-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.503   | 17.503-23.503 | +++++  | +++++   |
| 177 p-Benzoquinone      | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.827    | 4.827-10.827  | +++++  | +++++   |
| 168 Pentachlorobenzene  | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 15.842   | 12.842-18.842 | +++++  | +++++   |
| 145 4,4'-DDE            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 47.212   | 44.212-50.212 | +++++  | +++++   |
| 146 4,4'-DDD            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 47.746   | 44.746-50.746 | +++++  | +++++   |
| 147 4,4'-DDT            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 48.216   | 45.216-51.216 | +++++  | +++++   |

Reviewer 1 \_\_\_\_\_ Date: \_\_\_\_\_  
Reviewer 2 \_\_\_\_\_ Date: \_\_\_\_\_

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m  
Batch File: \\target\share\chem3\nt10.i\20230315.b  
Inst ID: nt10.i

| Compound                     | RT01   | RT02   | RT03   | RT04   | RT05   | RT06   | RT07   | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 148 Dieldrin                 | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 47.281   | 44.281-50.281 | +++++  | +++++   |
| 149 TCMX                     | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 43.387   | 40.387-46.387 | +++++  | +++++   |
| 150 DCBP                     | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 50.989   | 47.989-53.989 | +++++  | +++++   |
| 138 Chlorobenzilate          | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 67.733   | 64.733-70.733 | +++++  | +++++   |
| 139 Isodrin                  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 65.067   | 62.067-68.067 | +++++  | +++++   |
| 140 Diallate A               | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 65.487   | 62.487-68.487 | +++++  | +++++   |
| 141 Diallate B               | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 65.487   | 62.487-68.487 | +++++  | +++++   |
| 142 1,2-Dibromo-3-Chloropr   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 49.917   | 46.917-52.917 | +++++  | +++++   |
| 135 2,3,5,6-Tetrachlorophe   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 16.383   | 13.383-19.383 | +++++  | +++++   |
| 136 2,3,4,5-tetrachlorophe   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 39.317   | 36.317-42.317 | +++++  | +++++   |
| 137 d8-1,4-Dioxane           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 2.445    | 0.000-5.445   | +++++  | +++++   |
| * 134 Di-n-octylphthalate-d4 | 24.488 | 24.479 | 24.480 | 24.480 | 24.479 | 24.480 | 24.480 | 24.480   | 21.480-27.480 | 24.481 | 0.003   |
| 133 Butylatedhydroxytoluen   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 15.571   | 12.571-18.571 | +++++  | +++++   |
| 132 3,6-Dimethylphenanthre   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 65.450   | 62.450-68.450 | +++++  | +++++   |
| 131 1-Methylphenanthrene     | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 64.400   | 61.400-67.400 | +++++  | +++++   |
| 130 Dibenzothiophene         | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 62.100   | 59.100-65.100 | +++++  | +++++   |
| 129 1-Methylfluorene         | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 54.912   | 51.912-57.912 | +++++  | +++++   |
| 128 N-Hexadecane             | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 54.212   | 51.212-57.212 | +++++  | +++++   |
| 127 2-Isopropyl-naphthalene  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 57.650   | 54.650-60.650 | +++++  | +++++   |
| 126 N-Tetradecane            | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 56.750   | 53.750-59.750 | +++++  | +++++   |
| 144 alpha-Terpineol          | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 11.447   | 8.447-14.447  | +++++  | +++++   |
| 125 Safrole                  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 52.166   | 49.166-55.166 | +++++  | +++++   |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m  
Batch File: \\target\share\chem3\nt10.i\20230315.b  
Inst ID: nt10.i

| Compound                   | RT01   | RT02   | RT03   | RT04   | RT05   | RT06   | RT07   | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 124 3,4-Dimethylphenol     | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 50.617   | 47.617-53.617 | +++++  | +++++   |
| 123 Acetophenone           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 10.252   | 7.252-13.252  | +++++  | +++++   |
| 122 Furfuraldehyde         | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 43.467   | 40.467-46.467 | +++++  | +++++   |
| 143 1,4-Dioxane            | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 2.697    | 0.000-5.697   | +++++  | +++++   |
| 121 Quinoline              | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 54.500   | 51.500-57.500 | +++++  | +++++   |
| 120 2,3,4,6-Tetrachlorophe | 16.110 | 16.101 | 16.102 | 16.103 | 16.109 | 16.102 | 16.103 | 16.103   | 13.103-19.103 | 16.104 | 0.004   |
| 178 2-Benzyl-4-Chloropheno | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 18.963   | 15.963-21.963 | +++++  | +++++   |
| 119 7,12-Dimethylbenz(a)an | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 47.069   | 44.069-50.069 | +++++  | +++++   |
| 118 Triphenyl Phosphate    | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 21.215   | 18.215-24.215 | +++++  | +++++   |
| 117 Butyl Diphenyl Phospha | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 16.761   | 13.761-19.761 | +++++  | +++++   |
| 116 Dibutyl Phenyl Phospha | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 18.747   | 15.747-21.747 | +++++  | +++++   |
| 115 Tributyl Phosphate     | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 16.923   | 13.923-19.923 | +++++  | +++++   |
| 114 Beta-Pinene            | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 48.950   | 45.950-51.950 | +++++  | +++++   |
| 113 Diphenyl Oxide         | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 14.341   | 11.341-17.341 | +++++  | +++++   |
| 112 Biphenyl               | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 14.085   | 11.085-17.085 | +++++  | +++++   |
| 111 Azobenzene (1,2-DP-Hyd | 16.805 | 16.796 | 16.797 | 16.790 | 16.797 | 16.797 | 16.790 | 16.790   | 13.790-19.790 | 16.796 | 0.005   |
| 110 Tetrachloroguaiacol    | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 17.140   | 14.140-20.140 | +++++  | +++++   |
| 109 3,4,5-Trichloroguaiaco | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 15.070   | 12.070-18.070 | +++++  | +++++   |
| 181 3,4,6-Trichloroguaiaco | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 15.232   | 12.232-18.232 | +++++  | +++++   |
| 108 4,5,6-Trichloroguaiaco | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 16.374   | 13.374-19.374 | +++++  | +++++   |
| 184 3,4-Dichloroguaiacol   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 13.120   | 10.120-16.120 | +++++  | +++++   |
| 107 4,5-Dichloroguaiacol   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 14.096   | 11.096-17.096 | +++++  | +++++   |
| 182 4,6-Dichloroguaiacol   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 14.096   | 11.096-17.096 | +++++  | +++++   |
| 185 4-Chloroguaiacol       | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 11.735   | 8.735-14.735  | +++++  | +++++   |



ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m  
Batch File: \\target\share\chem3\nt10.i\20230315.b  
Inst ID: nt10.i

| Compound                   | RT01   | RT02   | RT03   | RT04   | RT05   | RT06   | RT07   | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 106 Guaiacol               | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 9.243    | 6.243-12.243  | +++++  | +++++   |
| 105 1-methylnaphthalene    | 13.433 | 13.432 | 13.433 | 13.426 | 13.432 | 13.425 | 13.426 | 13.426   | 10.426-16.426 | 13.430 | 0.004   |
| 151 1,2,4,5-Tetrachloroben | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 11.499   | 8.499-14.499  | +++++  | +++++   |
| 152 Benzo(e)pyrene         | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 30.943   | 27.943-33.943 | +++++  | +++++   |
| 153 Chlorpyrifos           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 27.642   | 24.642-30.642 | +++++  | +++++   |
| 154 Diazinon               | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 25.953   | 22.953-28.953 | +++++  | +++++   |
| 155 Kelthane               | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 27.750   | 24.750-30.750 | +++++  | +++++   |
| 156 Methyl Parathion       | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 26.464   | 23.464-29.464 | +++++  | +++++   |
| 157 Ethyl Parathion        | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 27.099   | 24.099-30.099 | +++++  | +++++   |
| 158 Ethion                 | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 24.513   | 21.513-27.513 | +++++  | +++++   |
| 159 4-Nonylphenol          | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 25.132   | 22.132-28.132 | +++++  | +++++   |
| 160 Tetraethyl Tin         | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 19.528   | 16.528-22.528 | +++++  | +++++   |
| 161 1,2,3-Trichloronaphtha | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 36.246   | 33.246-39.246 | +++++  | +++++   |
| 162 1,2,3,4-Tetrachloronap | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 37.506   | 34.506-40.506 | +++++  | +++++   |
| 163 1,2,3,5,8-Pentachloron | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 38.893   | 35.893-41.893 | +++++  | +++++   |
| 164 1,2,3,4,6,7-Hexachloro | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 39.681   | 36.681-42.681 | +++++  | +++++   |
| 165 1,2,3,4,5,6,7-Heptachl | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 41.123   | 38.123-44.123 | +++++  | +++++   |
| 166 Octachloronaphthalene  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 42.253   | 39.253-45.253 | +++++  | +++++   |
| 167 2,2',4,4',5-Pentabromo | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 42.033   | 39.033-45.033 | +++++  | +++++   |
| \$ 2 Phenol-d5             | 8.652  | 8.644  | 8.637  | 8.629  | 8.636  | 8.637  | 8.637  | 8.637    | 5.637-11.637  | 8.639  | 0.007   |
| 3 Phenol                   | 8.675  | 8.659  | 8.660  | 8.660  | 8.652  | 8.660  | 8.652  | 8.652    | 5.652-11.652  | 8.660  | 0.008   |
| 4 Bis(2-Chloroethyl)ethe   | 8.845  | 8.845  | 8.837  | 8.838  | 8.837  | 8.837  | 8.838  | 8.838    | 5.838-11.838  | 8.840  | 0.004   |
| \$ 5 2-Chlorophenol-d4     | 8.938  | 8.937  | 8.930  | 8.930  | 8.930  | 8.930  | 8.930  | 8.930    | 5.930-11.930  | 8.932  | 0.004   |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m  
Batch File: \\target\share\chem3\nt10.i\20230315.b  
Inst ID: nt10.i

| Compound                     | RT01   | RT02   | RT03   | RT04   | RT05   | RT06   | RT07   | EXPEC RT | RT WINDOW    | AVG RT | STD DEV |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|----------|--------------|--------|---------|
| 6 2-Chlorophenol             | 8.969  | 8.961  | 8.961  | 8.961  | 8.961  | 8.961  | 8.961  | 8.961    | 5.961-11.961 | 8.962  | 0.003   |
| 7 1,3-Dichlorobenzene        | 9.240  | 9.239  | 9.232  | 9.232  | 9.239  | 9.232  | 9.232  | 9.232    | 6.232-12.232 | 9.235  | 0.004   |
| * 8 1,4-Dichlorobenzene-d4   | 9.302  | 9.301  | 9.302  | 9.302  | 9.294  | 9.302  | 9.294  | 9.294    | 6.294-12.294 | 9.299  | 0.004   |
| 9 1,4-Dichlorobenzene        | 9.333  | 9.332  | 9.325  | 9.325  | 9.325  | 9.333  | 9.325  | 9.325    | 6.325-12.325 | 9.328  | 0.004   |
| \$ 10 1,2-Dichlorobenzene-d4 | 9.666  | 9.658  | 9.659  | 9.659  | 9.658  | 9.659  | 9.659  | 9.659    | 6.659-12.659 | 9.660  | 0.003   |
| 11 Benzyl alcohol            | 9.565  | 9.557  | 9.558  | 9.558  | 9.557  | 9.558  | 9.558  | 9.558    | 6.558-12.558 | 9.559  | 0.003   |
| 12 1,2-Dichlorobenzene       | 9.690  | 9.689  | 9.682  | 9.682  | 9.682  | 9.682  | 9.682  | 9.682    | 6.682-12.682 | 9.684  | 0.004   |
| 13 2-Methylphenol            | 9.775  | 9.775  | 9.775  | 9.775  | 9.767  | 9.767  | 9.767  | 9.767    | 6.767-12.767 | 9.772  | 0.004   |
| 14 2,2'-oxybis(1-Chloropr    | 9.861  | 9.860  | 9.860  | 9.861  | 9.860  | 9.853  | 9.861  | 9.861    | 6.861-12.861 | 9.859  | 0.003   |
| 15 4-Methylphenol            | 10.047 | 10.039 | 10.039 | 10.031 | 10.031 | 10.031 | 10.031 | 10.031   | 7.031-13.031 | 10.036 | 0.006   |
| 16 N-Nitroso-di-n-propyla    | 10.132 | 10.124 | 10.117 | 10.117 | 10.109 | 10.117 | 10.109 | 10.109   | 7.109-13.109 | 10.118 | 0.008   |
| 17 Hexachloroethane          | 10.280 | 10.279 | 10.272 | 10.272 | 10.272 | 10.272 | 10.272 | 10.272   | 7.272-13.272 | 10.274 | 0.004   |
| \$ 18 Nitrobenzene-d5        | 10.396 | 10.388 | 10.388 | 10.388 | 10.388 | 10.388 | 10.388 | 10.388   | 7.388-13.388 | 10.389 | 0.003   |
| 19 Nitrobenzene              | 10.435 | 10.427 | 10.427 | 10.419 | 10.419 | 10.419 | 10.419 | 10.419   | 7.419-13.419 | 10.424 | 0.006   |
| 20 Isophorone                | 10.885 | 10.869 | 10.862 | 10.862 | 10.861 | 10.862 | 10.862 | 10.862   | 7.862-13.862 | 10.866 | 0.009   |
| 21 2-Nitrophenol             | 11.057 | 11.047 | 11.047 | 11.048 | 11.047 | 11.047 | 11.048 | 11.048   | 8.048-14.048 | 11.049 | 0.003   |
| 22 2,4-Dimethylphenol        | 11.091 | 11.089 | 11.081 | 11.082 | 11.081 | 11.081 | 11.082 | 11.082   | 8.082-14.082 | 11.084 | 0.004   |
| 23 Bis(2-Chloroethoxy)met    | 11.294 | 11.285 | 11.285 | 11.286 | 11.285 | 11.285 | 11.286 | 11.286   | 8.286-14.286 | 11.286 | 0.003   |
| 24 Benzoic acid              | 11.413 | 11.327 | 11.276 | 11.226 | 11.183 | 11.166 | ++++   | 11.166   | 8.166-14.166 | 11.265 | 0.094   |
| 25 2,4-Dichlorophenol        | 11.506 | 11.497 | 11.497 | 11.489 | 11.488 | 11.489 | 11.489 | 11.489   | 8.489-14.489 | 11.494 | 0.007   |
| 26 1,2,4-Trichlorobenzene    | 11.693 | 11.692 | 11.685 | 11.685 | 11.684 | 11.685 | 11.685 | 11.685   | 8.685-14.685 | 11.687 | 0.004   |
| * 27 Naphthalene-d8          | 11.778 | 11.777 | 11.777 | 11.778 | 11.777 | 11.777 | 11.770 | 11.770   | 8.770-14.770 | 11.776 | 0.003   |
| 28 Naphthalene               | 11.824 | 11.815 | 11.816 | 11.817 | 11.816 | 11.816 | 11.817 | 11.817   | 8.817-14.817 | 11.817 | 0.003   |
| 29 4-Chloroaniline           | 11.948 | 11.939 | 11.939 | 11.940 | 11.939 | 11.939 | 11.940 | 11.940   | 8.940-14.940 | 11.941 | 0.003   |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m

Batch File: \\target\share\chem3\nt10.i\20230315.b

Inst ID: nt10.i

| Compound                  | RT01   | RT02   | RT03   | RT04   | RT05   | RT06   | RT07   | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 30 Hexachlorobutadiene    | 12.172 | 12.171 | 12.171 | 12.172 | 12.171 | 12.171 | 12.172 | 12.172   | 9.172-15.172  | 12.171 | 0.001   |
| 31 4-Chloro-3-methylpheno | 12.892 | 12.883 | 12.875 | 12.876 | 12.875 | 12.883 | 12.876 | 12.876   | 9.876-15.876  | 12.880 | 0.006   |
| 32 2-Methylnaphthalene    | 13.209 | 13.208 | 13.200 | 13.201 | 13.200 | 13.208 | 13.201 | 13.201   | 10.201-16.201 | 13.204 | 0.004   |
| 33 Hexachlorocyclopentadi | 13.673 | 13.665 | 13.665 | 13.666 | 13.665 | 13.673 | 13.666 | 13.666   | 10.666-16.666 | 13.667 | 0.004   |
| 34 2,4,6-Trichlorophenol  | 13.828 | 13.819 | 13.820 | 13.820 | 13.819 | 13.820 | 13.820 | 13.820   | 10.820-16.820 | 13.821 | 0.003   |
| 35 2,4,5-Trichlorophenol  | 13.898 | 13.889 | 13.889 | 13.890 | 13.889 | 13.889 | 13.890 | 13.890   | 10.890-16.890 | 13.891 | 0.003   |
| 36 2-Fluorobiphenyl       | 13.991 | 13.982 | 13.982 | 13.983 | 13.982 | 13.982 | 13.975 | 13.975   | 10.975-16.975 | 13.982 | 0.004   |
| 37 2-Chloronaphthalene    | 14.207 | 14.198 | 14.199 | 14.200 | 14.199 | 14.199 | 14.192 | 14.192   | 11.192-17.192 | 14.199 | 0.004   |
| 38 2-Nitroaniline         | 14.470 | 14.454 | 14.454 | 14.447 | 14.454 | 14.446 | 14.447 | 14.447   | 11.447-17.447 | 14.453 | 0.008   |
| 39 Dimethylphthalate      | 14.888 | 14.880 | 14.880 | 14.873 | 14.872 | 14.880 | 14.873 | 14.873   | 11.873-17.873 | 14.878 | 0.006   |
| 40 Acenaphthylene         | 15.074 | 15.073 | 15.066 | 15.067 | 15.073 | 15.066 | 15.067 | 15.067   | 12.067-18.067 | 15.069 | 0.004   |
| 41 2,6-Dinitrotoluene     | 15.036 | 15.027 | 15.019 | 15.020 | 15.019 | 15.019 | 15.012 | 15.012   | 12.012-18.012 | 15.022 | 0.007   |
| 42 Acenaphthene-d10       | 15.384 | 15.383 | 15.383 | 15.384 | 15.383 | 15.383 | 15.384 | 15.384   | 12.384-18.384 | 15.383 | 0.001   |
| 43 3-Nitroaniline         | 15.322 | 15.313 | 15.306 | 15.299 | 15.298 | 15.298 | 15.299 | 15.299   | 12.299-18.299 | 15.305 | 0.009   |
| 44 Acenaphthene           | 15.453 | 15.452 | 15.445 | 15.446 | 15.452 | 15.452 | 15.446 | 15.446   | 12.446-18.446 | 15.449 | 0.004   |
| 45 2,4-Dinitrophenol      | 15.538 | 15.522 | 15.514 | 15.515 | 15.514 | 15.514 | 15.515 | 15.515   | 12.515-18.515 | 15.519 | 0.009   |
| 46 Dibenzofuran           | 15.778 | 15.777 | 15.769 | 15.770 | 15.769 | 15.769 | 15.770 | 15.770   | 12.770-18.770 | 15.772 | 0.004   |
| 47 4-Nitrophenol          | 15.623 | 15.607 | 15.599 | 15.600 | 15.599 | 15.599 | 15.592 | 15.592   | 12.592-18.592 | 15.603 | 0.010   |
| 48 2,4-Dinitrotoluene     | 15.840 | 15.831 | 15.824 | 15.824 | 15.823 | 15.824 | 15.817 | 15.817   | 12.817-18.817 | 15.826 | 0.007   |
| 49 Fluorene               | 16.489 | 16.488 | 16.488 | 16.481 | 16.488 | 16.488 | 16.481 | 16.481   | 13.481-19.481 | 16.486 | 0.003   |
| 50 Diethylphthalate       | 16.342 | 16.333 | 16.326 | 16.327 | 16.326 | 16.326 | 16.319 | 16.319   | 13.319-19.319 | 16.329 | 0.007   |
| 51 4-Chlorophenyl-phenyle | 16.474 | 16.473 | 16.465 | 16.466 | 16.473 | 16.473 | 16.466 | 16.466   | 13.466-19.466 | 16.470 | 0.004   |
| 52 4-Nitroaniline         | 16.605 | 16.588 | 16.573 | 16.566 | 16.565 | 16.565 | 16.566 | 16.566   | 13.566-19.566 | 16.576 | 0.015   |
| 53 4,6-Dinitro-2-methylph | 16.690 | 16.673 | 16.666 | 16.659 | 16.658 | 16.666 | 16.659 | 16.659   | 13.659-19.659 | 16.667 | 0.011   |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m  
Batch File: \\target\share\chem3\nt10.i\20230315.b  
Inst ID: nt10.i

| Compound                   | RT01   | RT02   | RT03   | RT04   | RT05   | RT06   | RT07   | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 54 N-Nitrosodiphenylamine  | 16.728 | 16.719 | 16.720 | 16.720 | 16.719 | 16.720 | 16.713 | 16.713   | 13.713-19.713 | 16.720 | 0.004   |
| \$ 55 2,4,6-Tribromophenol | 17.029 | 17.020 | 17.020 | 17.021 | 17.020 | 17.020 | 17.021 | 17.021   | 14.021-20.021 | 17.022 | 0.003   |
| 56 4-Bromophenyl-phenylet  | 17.476 | 17.475 | 17.475 | 17.476 | 17.475 | 17.475 | 17.476 | 17.476   | 14.476-20.476 | 17.476 | 0.001   |
| 57 Hexachlorobenzene       | 17.801 | 17.800 | 17.792 | 17.793 | 17.800 | 17.792 | 17.793 | 17.793   | 14.793-20.793 | 17.796 | 0.004   |
| 58 Pentachlorophenol       | 18.157 | 18.148 | 18.149 | 18.149 | 18.148 | 18.149 | 18.149 | 18.149   | 15.149-21.149 | 18.150 | 0.003   |
| * 59 Phenanthrene-d10      | 18.420 | 18.419 | 18.419 | 18.420 | 18.419 | 18.419 | 18.420 | 18.420   | 15.420-21.420 | 18.420 | 0.001   |
| 60 Phenanthrene            | 18.474 | 18.473 | 18.466 | 18.467 | 18.466 | 18.466 | 18.467 | 18.467   | 15.467-21.467 | 18.468 | 0.004   |
| 61 Anthracene              | 18.567 | 18.566 | 18.559 | 18.559 | 18.558 | 18.559 | 18.559 | 18.559   | 15.559-21.559 | 18.561 | 0.004   |
| 62 Carbazole               | 18.892 | 18.883 | 18.884 | 18.884 | 18.883 | 18.884 | 18.884 | 18.884   | 15.884-21.884 | 18.885 | 0.003   |
| 63 Di-n-butylphthalate     | 19.666 | 19.665 | 19.665 | 19.666 | 19.665 | 19.665 | 19.666 | 19.666   | 16.666-22.666 | 19.665 | 0.001   |
| 64 Fluoranthene            | 20.850 | 20.841 | 20.841 | 20.842 | 20.841 | 20.841 | 20.842 | 20.842   | 17.842-23.842 | 20.842 | 0.003   |
| 65 Pyrene                  | 21.275 | 21.266 | 21.267 | 21.267 | 21.266 | 21.267 | 21.267 | 21.267   | 18.267-24.267 | 21.268 | 0.003   |
| \$ 66 Terphenyl-d14        | 21.546 | 21.545 | 21.537 | 21.546 | 21.545 | 21.545 | 21.538 | 21.538   | 18.538-24.538 | 21.543 | 0.004   |
| 67 Butylbenzylphthalate    | 22.467 | 22.458 | 22.459 | 22.460 | 22.459 | 22.459 | 22.460 | 22.460   | 19.460-25.460 | 22.460 | 0.003   |
| 68 Benzo(a)anthracene      | 23.427 | 23.426 | 23.419 | 23.420 | 23.419 | 23.427 | 23.420 | 23.420   | 20.420-26.420 | 23.423 | 0.004   |
| * 69 Chrysene-d12          | 23.458 | 23.457 | 23.450 | 23.451 | 23.450 | 23.450 | 23.451 | 23.451   | 20.451-26.451 | 23.452 | 0.004   |
| 70 3,3'-Dichlorobenzidine  | 23.389 | 23.380 | 23.372 | 23.373 | 23.372 | 23.372 | 23.373 | 23.373   | 20.373-26.373 | 23.376 | 0.006   |
| 71 Chrysene                | 23.505 | 23.504 | 23.496 | 23.497 | 23.496 | 23.496 | 23.489 | 23.489   | 20.489-26.489 | 23.498 | 0.005   |
| 72 bis(2-Ethylhexyl)phtha  | 23.482 | 23.481 | 23.473 | 23.482 | 23.481 | 23.481 | 23.474 | 23.474   | 20.474-26.474 | 23.479 | 0.004   |
| 73 Di-n-octylphthalate     | 24.496 | 24.495 | 24.495 | 24.496 | 24.487 | 24.487 | 24.488 | 24.488   | 21.488-27.488 | 24.492 | 0.004   |
| 74 Benzo(b)fluoranthene    | 25.378 | 25.377 | 25.370 | 25.371 | 25.370 | 25.370 | 25.363 | 25.363   | 22.363-28.363 | 25.371 | 0.005   |
| 75 Benzo(k)fluoranthene    | 25.433 | 25.424 | 25.416 | 25.417 | 25.416 | 25.409 | 25.409 | 25.409   | 22.409-28.409 | 25.418 | 0.008   |
| 187 Total Benzofluoranthen | 25.433 | 25.424 | 25.416 | 25.371 | 25.416 | 25.409 | 25.409 | 25.409   | 22.409-28.409 | 25.411 | 0.020   |
| 76 Benzo(a)pyrene          | 26.075 | 26.066 | 26.059 | 26.060 | 26.059 | 26.059 | 26.052 | 26.052   | 23.052-29.052 | 26.061 | 0.007   |

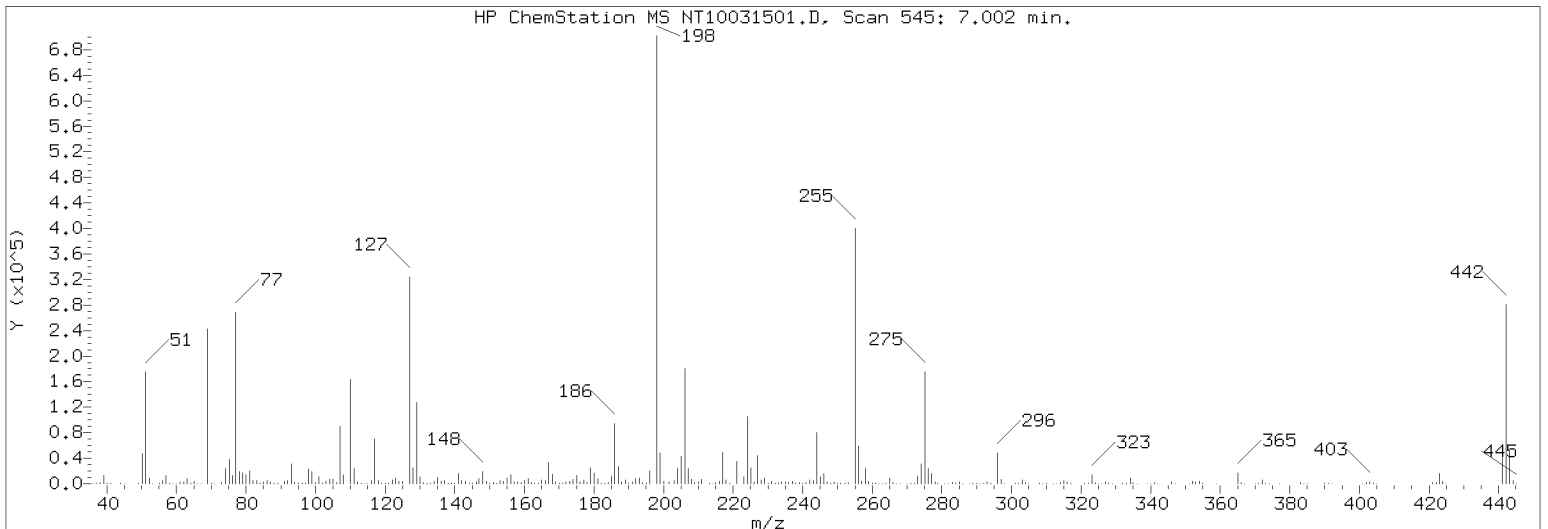
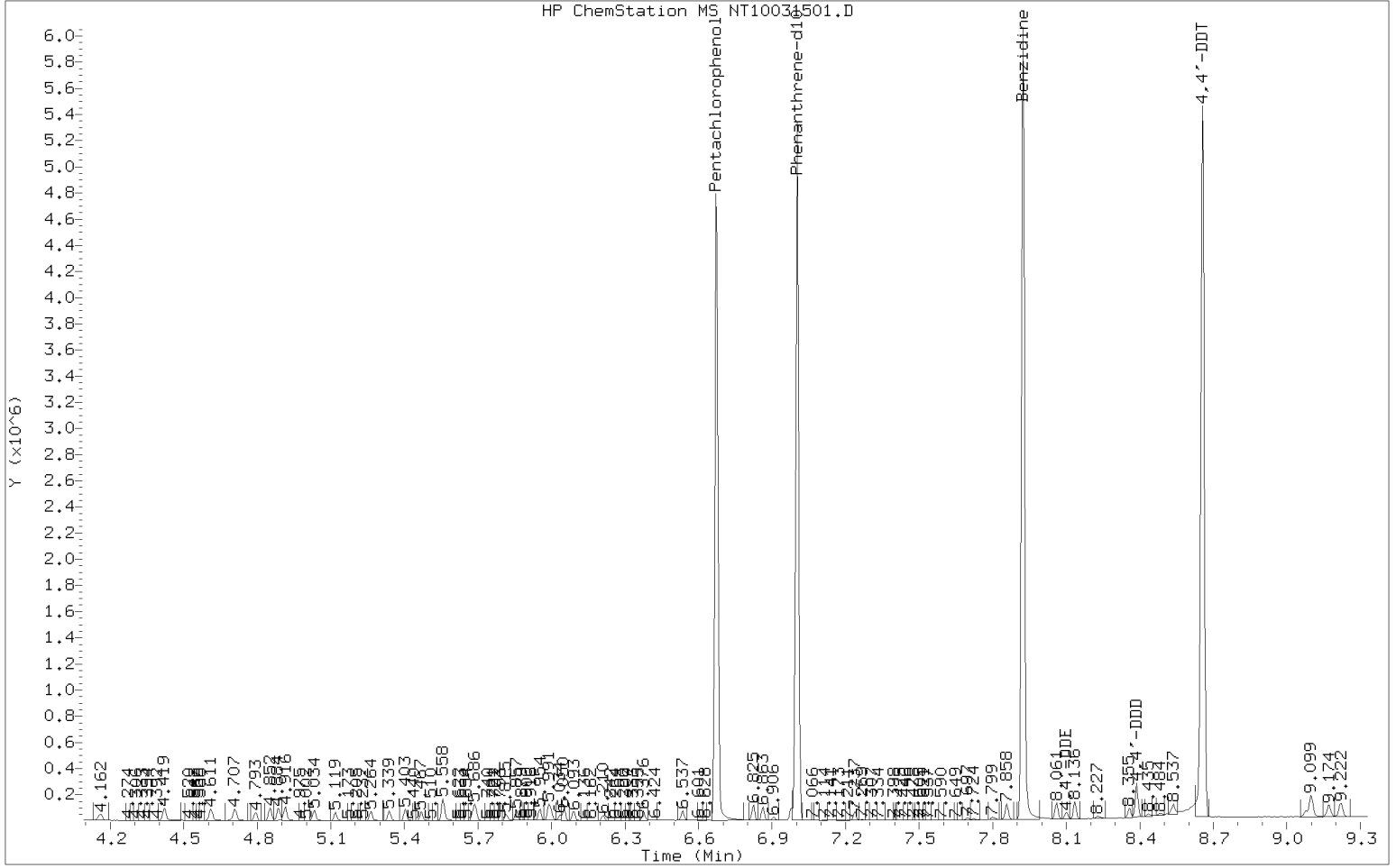
ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m  
Batch File: \\target\share\chem3\nt10.i\20230315.b  
Inst ID: nt10.i

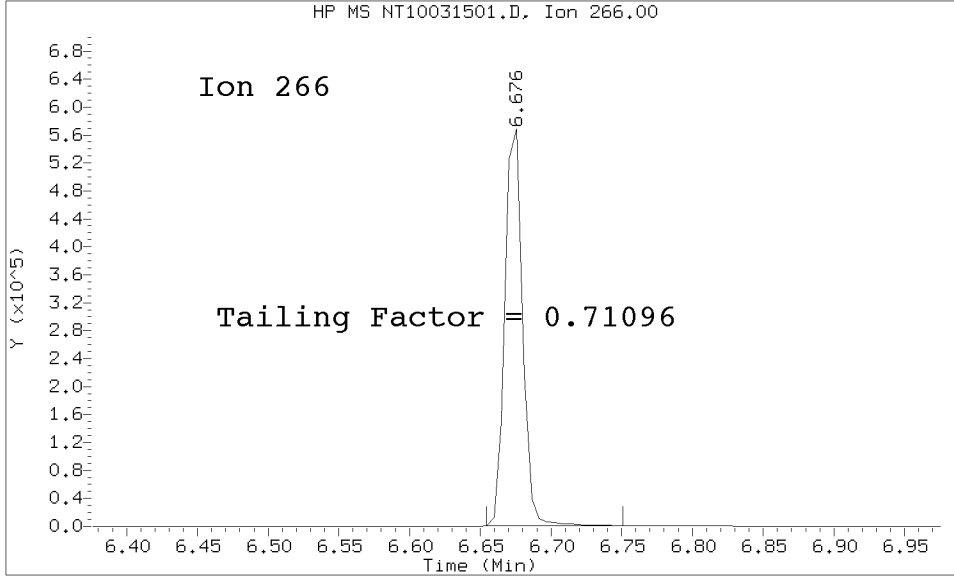
| Compound                      | RT01   | RT02   | RT03   | RT04   | RT05   | RT06   | RT07   | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|-------------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| * 77 Perylene-d12             | 26.191 | 26.183 | 26.183 | 26.184 | 26.183 | 26.183 | 26.184 | 26.184   | 23.184-29.184 | 26.184 | 0.003   |
| 78 Indeno(1,2,3-cd)pyrene     | 29.037 | 29.020 | 29.005 | 28.998 | 29.005 | 28.997 | 28.990 | 28.990   | 25.990-31.990 | 29.008 | 0.016   |
| 79 Dibenzo(a,h)anthracene     | 29.052 | 29.028 | 29.021 | 29.021 | 29.013 | 29.013 | 29.006 | 29.006   | 26.006-32.006 | 29.022 | 0.015   |
| 80 Benzo(g,h,i)perylene       | 29.884 | 29.859 | 29.836 | 29.837 | 29.836 | 29.828 | 29.821 | 29.821   | 26.821-32.821 | 29.843 | 0.021   |
| \$ 85 p-Cresol-d4             | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 51.633   | 48.633-54.633 | +++++  | +++++   |
| \$ 86 Anthracene-d10          | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 63.533   | 60.533-66.533 | +++++  | +++++   |
| \$ 87 Fluoranthene-d10        | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 60.273   | 57.273-63.273 | +++++  | +++++   |
| \$ 88 Dibenzo(a,h)anthracene- | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 78.600   | 75.600-81.600 | +++++  | +++++   |
| \$ 89 Diphenyl-d10            | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 50.841   | 47.841-53.841 | +++++  | +++++   |
| 90 N-Nitrosodimethylamine     | 4.952  | 4.936  | 4.928  | 4.928  | 4.936  | 4.936  | 4.936  | 4.936    | 1.936-7.936   | 4.936  | 0.008   |
| 91 Aniline                    | 8.768  | 8.760  | 8.752  | 8.753  | 8.752  | 8.752  | 8.753  | 8.753    | 5.753-11.753  | 8.756  | 0.006   |
| 92 1,2-Diphenylhydrazine      | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 56.160   | 53.160-59.160 | +++++  | +++++   |
| 93 Benzidine                  | 21.074 | 21.073 | 21.065 | 21.066 | 21.073 | 21.073 | 21.066 | 21.066   | 18.066-24.066 | 21.070 | 0.004   |
| \$ 95 D10-1-methylnaphthalen  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 52.075   | 49.075-55.075 | +++++  | +++++   |
| 96 p-Cymene                   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 49.250   | 46.250-52.250 | +++++  | +++++   |
| 97 Caffeine                   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 61.202   | 58.202-64.202 | +++++  | +++++   |
| 98 Retene                     | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 18.787   | 15.787-21.787 | +++++  | +++++   |
| 99 Perylene                   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 24.361   | 21.361-27.361 | +++++  | +++++   |
| 100 3-beta-Coprostanol        | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 25.411   | 22.411-28.411 | +++++  | +++++   |
| 101 Cholesterol               | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 26.023   | 23.023-29.023 | +++++  | +++++   |
| 102 beta-Sitosterol           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 79.550   | 76.550-82.550 | +++++  | +++++   |
| 103 Pyridine                  | 4.952  | 4.951  | 4.951  | 4.959  | 4.974  | 4.982  | 4.998  | 4.998    | 1.998-7.998   | 4.967  | 0.018   |
| 188 2,6-Dichlorophenol        | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 11.874   | 8.874-14.874  | +++++  | +++++   |
| 189 N-Nitrosomethylethylam    | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 5.818    | 2.818-8.818   | +++++  | +++++   |

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230315.b/NT10031501.D/NT10031501.D  
 Method Used: \20230315.b\DFTPP8270E.m Inst: nt10  
 Injection Date: 15-MAR-2023 20:19 Operator: JGR  
 Sample Info: SLC0228-TUN1 SLC0228-TUN1  
 Report Date: 03/16/2023 12:23



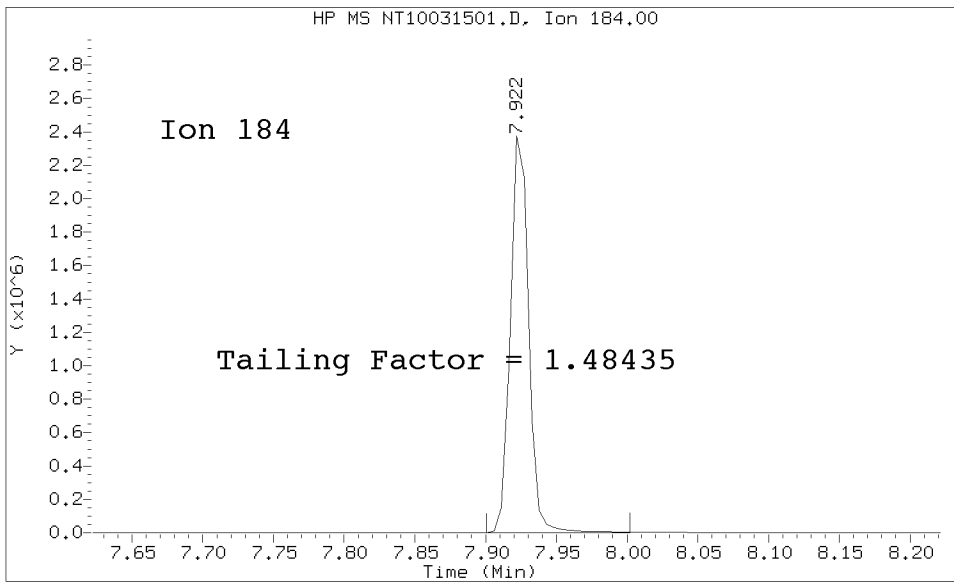
Datafile Analyzed: /20230315.b/NT10031501.D/NT10031501.D  
Method Used: \20230315.b\DFTPP8270E.m\sw846ddt.m Inst: nt10  
Injection Date: 15-MAR-2023 20:19 Operator: JGR  
Sample Info: SEQ-TUN1  
Report Date: 03/16/2023 12:23



Pentachlorophenol

=====  
Exp. RT = 6.676  
Found RT = 6.676

Tail Factor = 0.711 Maximum Allowed = 2.0



Benzidine

=====  
Exp. RT = 7.922  
Found RT = 7.922

Tail Factor = 1.484 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

| Compound          | Tail Factor | Max Allowed | Test |
|-------------------|-------------|-------------|------|
| Pentachlorophenol | 0.7109557   | 2.000       | PASS |
| Benzidine         | 1.4843493   | 2.000       | PASS |

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

| Compound      | Response | %Breakdown | Max Allowed | Test |
|---------------|----------|------------|-------------|------|
| 4,4-DDT       | 962640   |            |             | N/A  |
| 4,4-DDE       | 5158     | 0.5        | 20.0        | PASS |
| 4,4-DDD       | 41277    | 4.1        | 20.0        | PASS |
| 4,4-DDD + DDE | 46435    | 4.6        | 20.0        | PASS |

Tuning Sample, nt10.i/20230315.b/NT10031501.D, \*\*\* PASSED \*\*\*



| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00               |
| 68  | Less than 2.00% of mass 69         | 0.14 ( 0.37)         |
| 69  | Mass 69 relative abundance         | 36.50                |
| 70  | Less than 2.00% of mass 69         | 0.18 ( 0.50)         |
| 197 | Less than 2.00% of mass 198        | 0.00                 |
| 199 | 5.00 - 9.00% of mass 198           | 6.88                 |
| 365 | 1.00 - 100.00% of mass 198         | 2.52                 |
| 441 | Less than 150.00% of mass 443      | 6.11 ( 77.09)        |
| 442 | Less than 200.00% of mass 198      | 42.80                |
| 443 | 15.00 - 24.00% of mass 442         | 7.92 ( 18.52)        |

Data File: NT10031501.D  
Spectrum: Avg. Scans 544-546 ( 7.00), Background Scan 536  
Location of Maximum: 198.00  
Number of points: 316

| m/z   | Y      | m/z    | Y      | m/z    | Y      | m/z    | Y     |
|-------|--------|--------|--------|--------|--------|--------|-------|
| 36.00 | 226    | 124.00 | 3185   | 207.00 | 17112  | 293.00 | 2318  |
| 37.00 | 575    | 125.00 | 2909   | 208.00 | 4722   | 294.00 | 588   |
| 38.00 | 1820   | 127.00 | 243264 | 209.00 | 1586   | 295.00 | 171   |
| 39.00 | 10159  | 128.00 | 18696  | 210.00 | 2002   | 296.00 | 36168 |
| 40.00 | 405    | 129.00 | 96304  | 211.00 | 5093   | 297.00 | 5056  |
| 41.00 | 312    | 130.00 | 8257   | 213.00 | 371    | 298.00 | 351   |
| 42.00 | 59     | 131.00 | 1626   | 214.00 | 74     | 301.00 | 422   |
| 45.00 | 283    | 132.00 | 820    | 215.00 | 1549   | 302.00 | 552   |
| 49.00 | 910    | 133.00 | 415    | 216.00 | 2822   | 303.00 | 4130  |
| 50.00 | 35800  | 134.00 | 2800   | 217.00 | 36520  | 304.00 | 1107  |
| 51.00 | 136000 | 135.00 | 7704   | 218.00 | 4515   | 305.00 | 126   |
| 52.00 | 7201   | 136.00 | 3195   | 219.00 | 360    | 308.00 | 532   |
| 53.00 | 294    | 137.00 | 3970   | 221.00 | 25672  | 309.00 | 330   |
| 55.00 | 668    | 138.00 | 948    | 222.00 | 2863   | 310.00 | 461   |
| 56.00 | 4206   | 139.00 | 563    | 223.00 | 8094   | 312.00 | 63    |
| 57.00 | 9877   | 140.00 | 1193   | 224.00 | 76160  | 313.00 | 360   |
| 58.00 | 478    | 141.00 | 12476  | 225.00 | 18680  | 314.00 | 1762  |
| 59.00 | 106    | 142.00 | 3876   | 226.00 | 2197   | 315.00 | 4011  |
| 60.00 | 125    | 143.00 | 2757   | 227.00 | 32752  | 316.00 | 2200  |
| 61.00 | 1897   | 144.00 | 726    | 228.00 | 4949   | 317.00 | 416   |
| 62.00 | 2103   | 145.00 | 710    | 229.00 | 6725   | 321.00 | 1068  |
| 63.00 | 6654   | 146.00 | 2200   | 230.00 | 933    | 322.00 | 491   |
| 64.00 | 895    | 147.00 | 6157   | 231.00 | 2854   | 323.00 | 10541 |
| 65.00 | 3279   | 148.00 | 13642  | 232.00 | 574    | 324.00 | 1817  |
| 66.00 | 188    | 149.00 | 2992   | 233.00 | 660    | 325.00 | 178   |
| 67.00 | 249    | 150.00 | 753    | 234.00 | 2022   | 326.00 | 218   |
| 68.00 | 704    | 151.00 | 1678   | 235.00 | 2475   | 327.00 | 2103  |
| 69.00 | 189184 | 152.00 | 893    | 236.00 | 1621   | 328.00 | 1092  |
| 70.00 | 943    | 153.00 | 4091   | 237.00 | 2803   | 329.00 | 211   |
| 71.00 | 156    | 154.00 | 3154   | 238.00 | 375    | 332.00 | 739   |
| 73.00 | 1307   | 155.00 | 6743   | 239.00 | 1387   | 333.00 | 975   |
| 74.00 | 18768  | 156.00 | 10344  | 240.00 | 943    | 334.00 | 6536  |
| 75.00 | 30000  | 157.00 | 2091   | 241.00 | 1718   | 335.00 | 1733  |
| 76.00 | 10364  | 158.00 | 2204   | 242.00 | 4096   | 336.00 | 201   |
| 77.00 | 207552 | 159.00 | 1689   | 243.00 | 3931   | 339.00 | 148   |
| 78.00 | 14246  | 160.00 | 3864   | 244.00 | 58560  | 340.00 | 135   |
| 79.00 | 13356  | 161.00 | 5891   | 245.00 | 7760   | 341.00 | 1142  |
| 80.00 | 10539  | 162.00 | 1637   | 246.00 | 11941  | 342.00 | 277   |
| 81.00 | 15173  | 163.00 | 475    | 247.00 | 2526   | 346.00 | 2192  |
| 82.00 | 3906   | 164.00 | 608    | 248.00 | 602    | 347.00 | 346   |
| 83.00 | 3545   | 165.00 | 4507   | 249.00 | 2169   | 351.00 | 182   |
| 84.00 | 178    | 166.00 | 3807   | 250.00 | 370    | 352.00 | 3059  |
| 85.00 | 2559   | 167.00 | 24880  | 251.00 | 462    | 353.00 | 1950  |
| 86.00 | 4226   | 168.00 | 11639  | 252.00 | 590    | 354.00 | 3010  |
| 87.00 | 1998   | 169.00 | 2046   | 253.00 | 1331   | 355.00 | 569   |
| 88.00 | 783    | 170.00 | 776    | 255.00 | 296384 | 359.00 | 242   |
| 89.00 | 418    | 171.00 | 1036   | 256.00 | 43272  | 365.00 | 13085 |
| 91.00 | 3237   | 172.00 | 2248   | 257.00 | 3394   | 366.00 | 1813  |
| 92.00 | 3764   | 173.00 | 2906   | 258.00 | 18176  | 367.00 | 150   |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 93.00  | 24104  | 174.00 | 5113   | 259.00 | 2926   | 370.00 | 291    |
| 94.00  | 1672   | 175.00 | 9851   | 260.00 | 520    | 371.00 | 690    |
| 95.00  | 503    | 176.00 | 2588   | 261.00 | 479    | 372.00 | 4605   |
| 96.00  | 1130   | 177.00 | 4756   | 262.00 | 60     | 373.00 | 1002   |
| 97.00  | 380    | 178.00 | 1657   | 263.00 | 151    | 374.00 | 50     |
| 98.00  | 17936  | 179.00 | 18424  | 264.00 | 377    | 377.00 | 67     |
| 99.00  | 14658  | 180.00 | 12975  | 265.00 | 6992   | 383.00 | 1157   |
| 100.00 | 1303   | 181.00 | 6000   | 266.00 | 984    | 384.00 | 328    |
| 101.00 | 8724   | 182.00 | 963    | 267.00 | 105    | 385.00 | 50     |
| 102.00 | 480    | 183.00 | 493    | 268.00 | 248    | 390.00 | 595    |
| 103.00 | 2859   | 184.00 | 1456   | 270.00 | 285    | 391.00 | 401    |
| 104.00 | 5461   | 185.00 | 9317   | 271.00 | 631    | 392.00 | 204    |
| 105.00 | 5056   | 186.00 | 70384  | 272.00 | 750    | 401.00 | 211    |
| 106.00 | 1781   | 187.00 | 20112  | 273.00 | 8749   | 402.00 | 1564   |
| 107.00 | 67936  | 188.00 | 2185   | 274.00 | 23296  | 403.00 | 2292   |
| 108.00 | 10471  | 189.00 | 4453   | 275.00 | 129008 | 404.00 | 796    |
| 109.00 | 595    | 190.00 | 772    | 276.00 | 17320  | 405.00 | 237    |
| 110.00 | 122760 | 191.00 | 2090   | 277.00 | 11470  | 421.00 | 1827   |
| 111.00 | 18400  | 192.00 | 5915   | 278.00 | 2005   | 422.00 | 1658   |
| 112.00 | 2357   | 193.00 | 6863   | 279.00 | 468    | 423.00 | 12304  |
| 113.00 | 756    | 194.00 | 1470   | 281.00 | 147    | 424.00 | 2795   |
| 114.00 | 128    | 195.00 | 841    | 282.00 | 368    | 425.00 | 263    |
| 115.00 | 298    | 196.00 | 14341  | 283.00 | 1453   | 441.00 | 31664  |
| 116.00 | 3871   | 198.00 | 518272 | 284.00 | 874    | 442.00 | 221824 |
| 117.00 | 54088  | 199.00 | 35680  | 285.00 | 2012   | 443.00 | 41072  |
| 118.00 | 3919   | 200.00 | 2830   | 286.00 | 333    | 444.00 | 3778   |
| 119.00 | 531    | 201.00 | 2302   | 288.00 | 146    | 445.00 | 177    |
| 120.00 | 920    | 203.00 | 3657   | 289.00 | 446    |        |        |
| 121.00 | 362    | 204.00 | 18200  | 290.00 | 444    |        |        |
| 122.00 | 4396   | 205.00 | 31664  | 291.00 | 199    |        |        |
| 123.00 | 6778   | 206.00 | 132736 | 292.00 | 486    |        |        |

Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031502.D

Date: 15-MAR-2023 20:34

Client ID:

Sample Info: SLC0228-CAL7

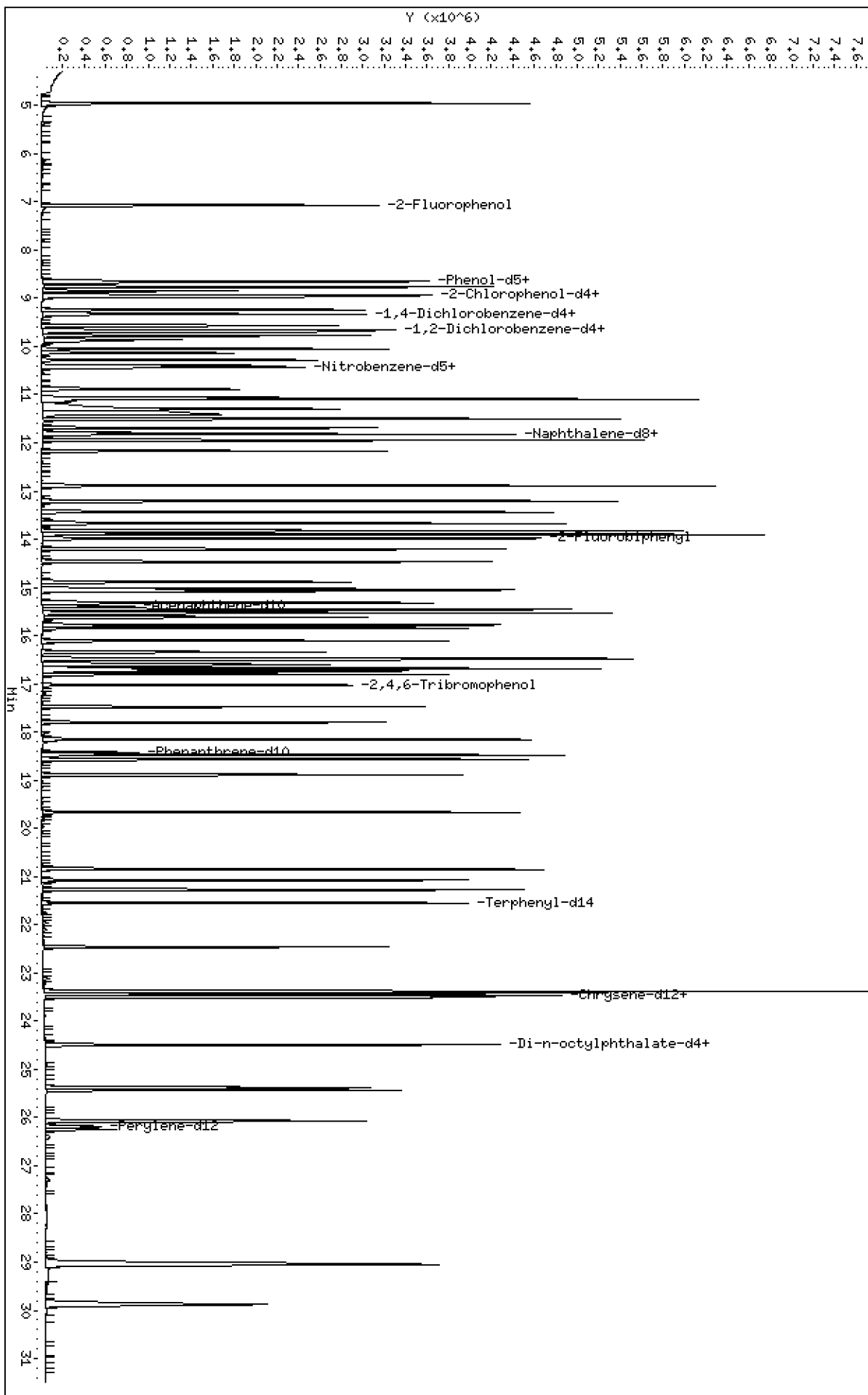
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20230315.6\NT10031502.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031502.D  
 Lab Smp Id: SLC0228-CAL7  
 Inj Date : 15-MAR-2023 20:34  
 Operator : VTS Inst ID: nt10.i  
 Smp Info : SLC0228-CAL7  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD  
 Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D  
 Als bottle: 2 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS |           |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
|                                 |       |     |        |        |         |          | CAL-AMT | ON-COL    |
|                                 | MASS  |     |        |        |         |          | (ug/mL) | (ug/mL)   |
| \$ 1 2-Fluorophenol             | 112   |     | 7.068  | 7.068  | (0.760) | 1445745  | 30.0000 | 26.95     |
| \$ 2 Phenol-d5                  | 99    |     | 8.652  | 8.636  | (0.930) | 2045181  | 30.0000 | 29.06     |
| 3 Phenol                        | 94    |     | 8.675  | 8.652  | (0.933) | 1349012  | 20.0000 | 18.45     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.937  | 8.930  | (0.961) | 1771997  | 30.0000 | 29.49     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.845  | 8.837  | (0.951) | 997663   | 20.0000 | 18.40     |
| 6 2-Chlorophenol                | 128   |     | 8.968  | 8.961  | (0.964) | 1276591  | 20.0000 | 20.40     |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.239  | 9.231  | (0.993) | 1194475  | 20.0000 | 18.05     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.301  | 9.293  | (1.000) | 177375   | 4.00000 |           |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.332  | 9.325  | (1.003) | 1189876  | 20.0000 | 18.62     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.666  | 9.658  | (1.039) | 831691   | 20.0000 | 19.27     |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.689  | 9.682  | (1.042) | 1161461  | 20.0000 | 18.46     |
| 11 Benzyl alcohol               | 108   |     | 9.565  | 9.557  | (1.028) | 718505   | 20.0000 | 20.93     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.860  | 9.860  | (1.060) | 360967   | 20.0000 | 19.54     |
| 13 2-Methylphenol               | 108   |     | 9.775  | 9.767  | (1.051) | 1038369  | 20.0000 | 19.48     |
| 17 Hexachloroethane             | 117   |     | 10.279 | 10.271 | (1.105) | 521340   | 20.0000 | 19.88     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 10.132 | 10.108 | (1.089) | 829060   | 20.0000 | 19.70     |
| 15 4-Methylphenol               | 108   |     | 10.046 | 10.031 | (1.080) | 1116436  | 20.0000 | 19.88     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.396 | 10.388 | (0.883) | 1307575  | 20.0000 | 19.64     |
| 19 Nitrobenzene                 | 77    |     | 10.434 | 10.419 | (0.886) | 1246701  | 20.0000 | 19.08     |
| 20 Isophorone                   | 82    |     | 10.884 | 10.861 | (0.924) | 1864039  | 20.0000 | 22.30     |
| 21 2-Nitrophenol                | 139   |     | 11.056 | 11.048 | (0.939) | 649545   | 20.0000 | 19.99     |
| 22 2,4-Dimethylphenol           | 107   |     | 11.090 | 11.082 | (0.942) | 2235062  | 40.0000 | 37.24     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.294 | 11.285 | (0.959) | 1043843  | 20.0000 | 18.69     |
| 24 Benzoic acid                 | 105   |     | 11.413 | 11.166 | (0.969) | 3461038  | 80.0000 | 79.88 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | 11.506 | 11.489 | (0.977) | 1900569  | 40.0000 | 39.57     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.693 | 11.685 | (0.993) | 1014837  | 20.0000 | 18.00     |
| * 27 Naphthalene-d8             | 136   |     | 11.778 | 11.770 | (1.000) | 659656   | 4.00000 |           |
| 28 Naphthalene                  | 128   |     | 11.824 | 11.816 | (1.004) | 3233035  | 20.0000 | 18.50     |
| 29 4-Chloroaniline              | 127   |     | 11.947 | 11.940 | (1.014) | 2735281  | 40.0000 | 40.12     |
| 30 Hexachlorobutadiene          | 225   |     | 12.172 | 12.172 | (1.033) | 618722   | 20.0000 | 18.73     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.891 | 12.876 | (1.095) | 2087503  | 40.0000 | 40.15     |
| 32 2-Methylnaphthalene          | 142   |     | 13.209 | 13.201 | (1.121) | 2424558  | 20.0000 | 19.23     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.673 | 13.665 | (0.889) | 1420413  | 40.0000 | 43.48     |

| Compounds                         | QUANT SIG |        | AMOUNTS |         |          |                    |                   |
|-----------------------------------|-----------|--------|---------|---------|----------|--------------------|-------------------|
|                                   | MASS      | RT     | EXP RT  | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 13.828 | 13.820  | (0.899) | 1462769  | 40.0000            | 41.93             |
| 35 2,4,5-Trichlorophenol          | 196       | 13.897 | 13.890  | (0.903) | 1605152  | 40.0000            | 41.41             |
| \$ 36 2-Fluorobiphenyl            | 172       | 13.990 | 13.975  | (0.909) | 2614669  | 20.0000            | 18.73             |
| 37 2-Chloronaphthalene            | 162       | 14.207 | 14.191  | (0.924) | 2139935  | 20.0000            | 18.93             |
| 38 2-Nitroaniline                 | 65        | 14.470 | 14.447  | (0.941) | 1292686  | 40.0000            | 40.70             |
| 39 Dimethylphthalate              | 163       | 14.888 | 14.873  | (0.968) | 2104599  | 20.0000            | 18.35             |
| 40 Acenaphthylene                 | 152       | 15.074 | 15.066  | (0.980) | 3290934  | 20.0000            | 18.68             |
| 41 2,6-Dinitrotoluene             | 165       | 15.035 | 15.012  | (0.977) | 1020135  | 40.0000            | 41.18             |
| * 42 Acenaphthene-d10             | 164       | 15.383 | 15.383  | (1.000) | 352987   | 4.00000            |                   |
| 43 3-Nitroaniline                 | 138       | 15.321 | 15.298  | (0.996) | 1147538  | 40.0000            | 41.04             |
| 44 Acenaphthene                   | 153       | 15.453 | 15.445  | (1.005) | 2075684  | 20.0000            | 19.07             |
| 45 2,4-Dinitrophenol              | 184       | 15.538 | 15.515  | (1.010) | 1465989  | 80.0000            | 79.60             |
| 46 Dibenzofuran                   | 168       | 15.777 | 15.770  | (1.026) | 3017611  | 20.0000            | 18.80             |
| 47 4-Nitrophenol                  | 109       | 15.623 | 15.592  | (1.016) | 684596   | 40.0000            | 39.90             |
| 48 2,4-Dinitrotoluene             | 165       | 15.839 | 15.817  | (1.030) | 1405429  | 40.0000            | 39.90             |
| 50 Diethylphthalate               | 149       | 16.342 | 16.319  | (1.062) | 2341062  | 20.0000            | 20.81             |
| 49 Fluorene                       | 166       | 16.489 | 16.481  | (1.072) | 2411516  | 20.0000            | 19.10             |
| 51 4-Chlorophenyl-phenylether     | 204       | 16.473 | 16.466  | (1.071) | 1161824  | 20.0000            | 19.35             |
| 52 4-Nitroaniline                 | 138       | 16.604 | 16.566  | (1.079) | 1069800  | 40.0000            | 42.46             |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 16.689 | 16.658  | (0.906) | 1560214  | 80.0000            | 79.73             |
| 54 N-Nitrosodiphenylamine         | 169       | 16.728 | 16.712  | (0.908) | 1511403  | 20.0000            | 19.24             |
| \$ 55 2,4,6-Tribromophenol        | 330       | 17.028 | 17.021  | (1.107) | 477920   | 30.0000            | 29.91             |
| 56 4-Bromophenyl-phenylether      | 248       | 17.476 | 17.476  | (0.949) | 670470   | 20.0000            | 20.41             |
| 57 Hexachlorobenzene              | 284       | 17.800 | 17.793  | (0.966) | 643302   | 20.0000            | 18.67             |
| 58 Pentachlorophenol              | 266       | 18.157 | 18.149  | (0.986) | 885410   | 40.0000            | 39.87             |
| * 59 Phenanthrene-d10             | 188       | 18.420 | 18.420  | (1.000) | 587447   | 4.00000            |                   |
| 60 Phenanthrene                   | 178       | 18.474 | 18.466  | (1.003) | 3063430  | 20.0000            | 19.12             |
| 61 Anthracene                     | 178       | 18.567 | 18.559  | (1.008) | 3058907  | 20.0000            | 19.91             |
| 62 Carbazole                      | 167       | 18.892 | 18.884  | (1.026) | 2606590  | 20.0000            | 18.93             |
| 63 Di-n-butylphthalate            | 149       | 19.665 | 19.666  | (1.068) | 3613228  | 20.0000            | 19.93             |
| 64 Fluoranthene                   | 202       | 20.849 | 20.841  | (0.889) | 3084411  | 20.0000            | 21.53             |
| 65 Pyrene                         | 202       | 21.275 | 21.267  | (0.907) | 3048380  | 20.0000            | 20.75             |
| \$ 66 Terphenyl-d14               | 244       | 21.545 | 21.538  | (0.918) | 2146134  | 20.0000            | 19.45             |
| 67 Butylbenzylphthalate           | 149       | 22.467 | 22.460  | (0.958) | 1204454  | 20.0000            | 19.98             |
| 68 Benzo(a)anthracene             | 228       | 23.427 | 23.419  | (0.999) | 2444920  | 20.0000            | 19.43             |
| * 69 Chrysene-d12                 | 240       | 23.458 | 23.450  | (1.000) | 356463   | 4.00000            |                   |
| 70 3,3'-Dichlorobenzidine         | 252       | 23.388 | 23.373  | (0.997) | 2692461  | 60.0000            | 66.81             |
| 71 Chrysene                       | 228       | 23.504 | 23.489  | (1.002) | 2356995  | 20.0000            | 19.17             |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 23.481 | 23.474  | (0.959) | 1828785  | 20.0000            | 20.00             |
| * 134 Di-n-octylphthalate-d4      | 153       | 24.488 | 24.480  | (1.000) | 617041   | 4.00000            |                   |
| 73 Di-n-octylphthalate            | 149       | 24.495 | 24.488  | (1.000) | 3023393  | 20.0000            | 18.72             |
| 74 Benzo(b)fluoranthene           | 252       | 25.378 | 25.362  | (0.969) | 2546409  | 20.0000            | 19.40             |
| 75 Benzo(k)fluoranthene           | 252       | 25.432 | 25.409  | (0.971) | 2751549  | 20.0000            | 20.64             |
| 76 Benzo(a)pyrene                 | 252       | 26.075 | 26.052  | (0.996) | 2507206  | 20.0000            | 21.36             |
| * 77 Perylene-d12                 | 264       | 26.191 | 26.183  | (1.000) | 404994   | 4.00000            |                   |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 29.036 | 28.990  | (1.109) | 3374860  | 20.0000            | 22.60             |
| 79 Dibenzo(a,h)anthracene         | 278       | 29.052 | 29.005  | (1.109) | 2799351  | 20.0000            | 22.58             |
| 80 Benzo(g,h,i)perylene           | 276       | 29.883 | 29.821  | (1.141) | 2974262  | 20.0000            | 23.02             |
| 90 N-Nitrosodimethylamine         | 74        | 4.951  | 4.936   | (0.532) | 1145410  | 40.0000            | 33.47             |
| 91 Aniline                        | 93        | 8.767  | 8.752   | (0.943) | 2810605  | 40.0000            | 37.51             |
| 93 Benzidine                      | 184       | 21.073 | 21.066  | (0.898) | 2290972  | 40.0000            | 38.94             |
| 103 Pyridine                      | 79        | 4.951  | 4.997   | (0.532) | 1775759  | 40.0000            | 33.79             |
| 105 1-methylnaphthalene           | 142       | 13.433 | 13.425  | (1.141) | 2185994  | 20.0000            | 18.92             |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 16.805 | 16.789  | (1.092) | 2458654  | 20.0000            | 19.56             |

| Compounds                     | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                               | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| =====                         | =====     |  | =====  | =====  | =====   | =====    | =====              |                   |
| 187 Total Benzofluoranthenes  | 252       |  | 25.432 | 25.409 | (0.971) | 5057487  | 40.0000            | 39.90             |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 16.110 | 16.103 | (1.047) | 832943   | 20.0000            | 19.99             |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023  
 Lab File ID: NT10031502.D Calibration Time: 21:50  
 Lab Smp Id: SLC0228-CAL7  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 171542   | 85771      | 343084  | 177375 | 3.40  |
| 27 Naphthalene-d8     | 624466   | 312233     | 1248932 | 659656 | 5.64  |
| 42 Acenaphthene-d10   | 337226   | 168613     | 674452  | 352987 | 4.67  |
| 59 Phenanthrene-d10   | 572849   | 286425     | 1145698 | 587447 | 2.55  |
| 69 Chrysene-d12       | 347068   | 173534     | 694136  | 356463 | 2.71  |
| 134 Di-n-octylphthala | 500317   | 250159     | 1000634 | 617041 | 23.33 |
| 77 Perylene-d12       | 421549   | 210775     | 843098  | 404994 | -3.93 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.30     | 8.80     | 9.80  | 9.30   | 0.00  |
| 27 Naphthalene-d8     | 11.78    | 11.28    | 12.28 | 11.78  | 0.01  |
| 42 Acenaphthene-d10   | 15.38    | 14.88    | 15.88 | 15.38  | 0.01  |
| 59 Phenanthrene-d10   | 18.42    | 17.92    | 18.92 | 18.42  | 0.00  |
| 69 Chrysene-d12       | 23.45    | 22.95    | 23.95 | 23.46  | 0.04  |
| 134 Di-n-octylphthala | 24.48    | 23.98    | 24.98 | 24.49  | 0.03  |
| 77 Perylene-d12       | 26.18    | 25.68    | 26.68 | 26.19  | 0.03  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



REVIEW SUMMARY FOR FILE - NT10031502.D

Lab ID: SLC0228-CAL7  
nt10.i, 20230315.b\ABN.m, 15-MAR-2023 20:34

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND     |
|-------|---------|---------|--------------|
| 0.969 | 0.000   | 0.9690  | Benzoic acid |
| 0.532 | 0.538   | -0.0054 | Pyridine     |

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

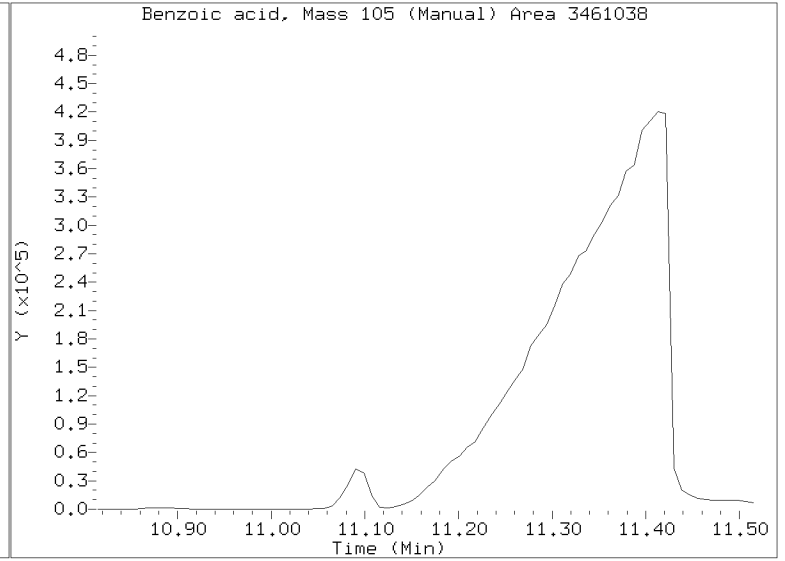
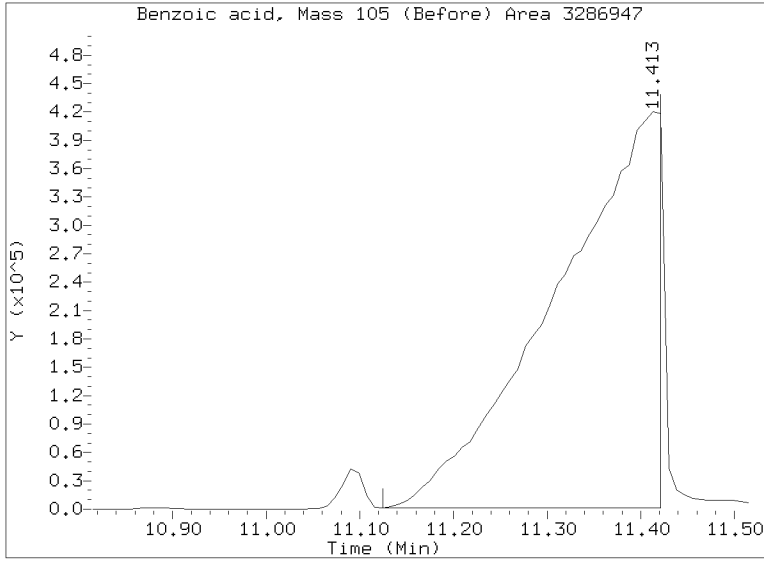
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/NT10031502.D

Injection Date: 15-MAR-2023 20:34

Lab ID: SLC0228-CAL7 Client ID:

Report Date: 03/16/2023 12:20



Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031503.D

Date: 15-MAR-2023 21:12

Client ID:

Sample Info: SLC0228-CAL6

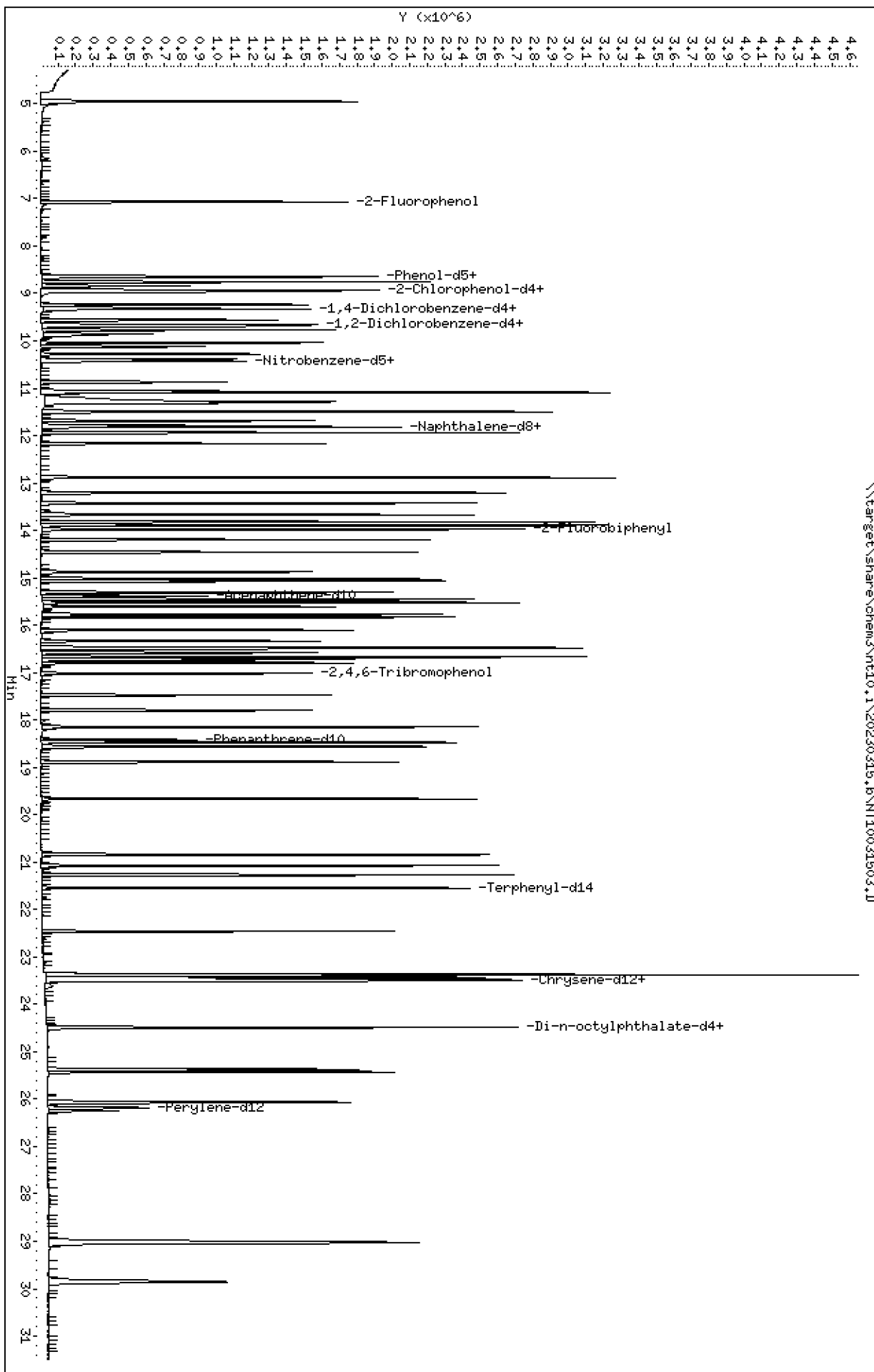
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20230315.6\NT10031503.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031503.D  
 Lab Smp Id: SLC0228-CAL6  
 Inj Date : 15-MAR-2023 21:12  
 Operator : VTS  
 Smp Info : SLC0228-CAL6  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Meth Date : 16-Mar-2023 12:06 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i  
 Quant Type: ISTD  
 Cal File: NT10031508.D  
 Calibration Sample, Level: 6  
 Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS |           |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
|                                 |       |     |        |        |         |          | CAL-AMT | ON-COL    |
|                                 | MASS  |     |        |        |         |          | (ug/mL) | (ug/mL)   |
| \$ 1 2-Fluorophenol             | 112   |     | 7.067  | 7.068  | (0.760) | 766278   | 15.0000 | 14.48     |
| \$ 2 Phenol-d5                  | 99    |     | 8.643  | 8.636  | (0.929) | 1033842  | 15.0000 | 14.89     |
| 3 Phenol                        | 94    |     | 8.659  | 8.652  | (0.931) | 677387   | 10.0000 | 9.390     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.937  | 8.930  | (0.961) | 890713   | 15.0000 | 15.03     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.844  | 8.837  | (0.951) | 507177   | 10.0000 | 9.479     |
| 6 2-Chlorophenol                | 128   |     | 8.960  | 8.961  | (0.963) | 642264   | 10.0000 | 10.40     |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.239  | 9.231  | (0.993) | 617243   | 10.0000 | 9.457     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.301  | 9.293  | (1.000) | 174984   | 4.00000 |           |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.332  | 9.325  | (1.003) | 612971   | 10.0000 | 9.721     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.658  | 9.658  | (1.038) | 417489   | 10.0000 | 9.807     |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.689  | 9.682  | (1.042) | 593607   | 10.0000 | 9.566     |
| 11 Benzyl alcohol               | 108   |     | 9.557  | 9.557  | (1.028) | 354873   | 10.0000 | 10.48     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.860  | 9.860  | (1.060) | 173870   | 10.0000 | 9.541 (M) |
| 13 2-Methylphenol               | 108   |     | 9.774  | 9.767  | (1.051) | 516580   | 10.0000 | 9.823     |
| 17 Hexachloroethane             | 117   |     | 10.279 | 10.271 | (1.105) | 255000   | 10.0000 | 9.857     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 10.124 | 10.108 | (1.088) | 403145   | 10.0000 | 9.709     |
| 15 4-Methylphenol               | 108   |     | 10.038 | 10.031 | (1.079) | 546873   | 10.0000 | 9.870     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.387 | 10.388 | (0.882) | 651453   | 10.0000 | 10.18     |
| 19 Nitrobenzene                 | 77    |     | 10.426 | 10.419 | (0.885) | 613375   | 10.0000 | 9.768     |
| 20 Isophorone                   | 82    |     | 10.868 | 10.861 | (0.923) | 899885   | 10.0000 | 11.20     |
| 21 2-Nitrophenol                | 139   |     | 11.046 | 11.048 | (0.938) | 309860   | 10.0000 | 10.04     |
| 22 2,4-Dimethylphenol           | 107   |     | 11.089 | 11.082 | (0.942) | 1122389  | 20.0000 | 19.46     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.284 | 11.285 | (0.958) | 510533   | 10.0000 | 9.514     |
| 24 Benzoic acid                 | 105   |     | 11.327 | 11.166 | (0.962) | 1448000  | 40.0000 | 40.68     |
| 25 2,4-Dichlorophenol           | 162   |     | 11.496 | 11.489 | (0.976) | 957443   | 20.0000 | 20.74     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.691 | 11.685 | (0.993) | 518573   | 10.0000 | 9.571     |
| * 27 Naphthalene-d8             | 136   |     | 11.776 | 11.770 | (1.000) | 633941   | 4.00000 |           |
| 28 Naphthalene                  | 128   |     | 11.815 | 11.816 | (1.003) | 1633246  | 10.0000 | 9.725     |
| 29 4-Chloroaniline              | 127   |     | 11.939 | 11.940 | (1.014) | 1335407  | 20.0000 | 20.38     |
| 30 Hexachlorobutadiene          | 225   |     | 12.170 | 12.172 | (1.033) | 314014   | 10.0000 | 9.891     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.882 | 12.876 | (1.094) | 1031139  | 20.0000 | 20.64     |
| 32 2-Methylnaphthalene          | 142   |     | 13.207 | 13.201 | (1.122) | 1205028  | 10.0000 | 9.943     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.664 | 13.665 | (0.888) | 679471   | 20.0000 | 21.34     |

| Compounds                         | QUANT SIG |        |        | AMOUNTS |          |                    |                   |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 13.819 | 13.820 | (0.898) | 735280   | 20.0000            | 21.62             |
| 35 2,4,5-Trichlorophenol          | 196       | 13.888 | 13.890 | (0.903) | 796463   | 20.0000            | 21.08             |
| § 36 2-Fluorobiphenyl             | 172       | 13.981 | 13.975 | (0.909) | 1328400  | 10.0000            | 9.760             |
| 37 2-Chloronaphthalene            | 162       | 14.198 | 14.191 | (0.923) | 1053277  | 10.0000            | 9.557             |
| 38 2-Nitroaniline                 | 65        | 14.453 | 14.447 | (0.940) | 639357   | 20.0000            | 20.65             |
| 39 Dimethylphthalate              | 163       | 14.879 | 14.873 | (0.967) | 1083747  | 10.0000            | 9.695             |
| 40 Acenaphthylene                 | 152       | 15.073 | 15.066 | (0.980) | 1706988  | 10.0000            | 9.940             |
| 41 2,6-Dinitrotoluene             | 165       | 15.026 | 15.012 | (0.977) | 513157   | 20.0000            | 21.25             |
| * 42 Acenaphthene-d10             | 164       | 15.382 | 15.383 | (1.000) | 344087   | 4.00000            |                   |
| 43 3-Nitroaniline                 | 138       | 15.313 | 15.298 | (0.995) | 575069   | 20.0000            | 21.10             |
| 44 Acenaphthene                   | 153       | 15.452 | 15.445 | (1.005) | 1037074  | 10.0000            | 9.775             |
| 45 2,4-Dinitrophenol              | 184       | 15.521 | 15.515 | (1.009) | 674586   | 40.0000            | 42.18             |
| 46 Dibenzofuran                   | 168       | 15.776 | 15.770 | (1.026) | 1516932  | 10.0000            | 9.696             |
| 47 4-Nitrophenol                  | 109       | 15.606 | 15.592 | (1.015) | 346416   | 20.0000            | 20.47             |
| 48 2,4-Dinitrotoluene             | 165       | 15.830 | 15.817 | (1.029) | 723393   | 20.0000            | 20.47             |
| 50 Diethylphthalate               | 149       | 16.333 | 16.319 | (1.062) | 1099214  | 10.0000            | 10.02             |
| 49 Fluorene                       | 166       | 16.487 | 16.481 | (1.072) | 1216938  | 10.0000            | 9.887             |
| 51 4-Chlorophenyl-phenylether     | 204       | 16.472 | 16.466 | (1.071) | 578431   | 10.0000            | 9.882             |
| 52 4-Nitroaniline                 | 138       | 16.588 | 16.566 | (1.078) | 562336   | 20.0000            | 22.89             |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 16.673 | 16.658 | (0.905) | 794181   | 40.0000            | 41.39             |
| 54 N-Nitrosodiphenylamine         | 169       | 16.719 | 16.712 | (0.908) | 775287   | 10.0000            | 9.570             |
| § 55 2,4,6-Tribromophenol         | 330       | 17.020 | 17.021 | (1.106) | 244599   | 15.0000            | 15.42             |
| 56 4-Bromophenyl-phenylether      | 248       | 17.474 | 17.476 | (0.949) | 352401   | 10.0000            | 10.40             |
| 57 Hexachlorobenzene              | 284       | 17.799 | 17.793 | (0.966) | 339084   | 10.0000            | 9.543             |
| 58 Pentachlorophenol              | 266       | 18.148 | 18.149 | (0.985) | 452371   | 20.0000            | 20.65             |
| * 59 Phenanthrene-d10             | 188       | 18.418 | 18.420 | (1.000) | 605930   | 4.00000            |                   |
| 60 Phenanthrene                   | 178       | 18.473 | 18.466 | (1.003) | 1596045  | 10.0000            | 9.660             |
| 61 Anthracene                     | 178       | 18.565 | 18.559 | (1.008) | 1637517  | 10.0000            | 10.33             |
| 62 Carbazole                      | 167       | 18.883 | 18.884 | (1.025) | 1441624  | 10.0000            | 10.15             |
| 63 Di-n-butylphthalate            | 149       | 19.664 | 19.666 | (1.068) | 1947970  | 10.0000            | 10.31             |
| 64 Fluoranthene                   | 202       | 20.840 | 20.841 | (0.888) | 1783287  | 10.0000            | 10.15             |
| 65 Pyrene                         | 202       | 21.266 | 21.267 | (0.907) | 1822698  | 10.0000            | 10.12             |
| § 66 Terphenyl-d14                | 244       | 21.544 | 21.538 | (0.918) | 1323270  | 10.0000            | 9.780             |
| 67 Butylbenzylphthalate           | 149       | 22.458 | 22.460 | (0.957) | 684422   | 10.0000            | 10.10             |
| 68 Benzo(a)anthracene             | 228       | 23.426 | 23.419 | (0.999) | 1518143  | 10.0000            | 9.840             |
| * 69 Chrysene-d12                 | 240       | 23.457 | 23.450 | (1.000) | 437116   | 4.00000            |                   |
| 70 3,3'-Dichlorobenzidine         | 252       | 23.379 | 23.373 | (0.997) | 1519096  | 30.0000            | 30.74             |
| 71 Chrysene                       | 228       | 23.503 | 23.489 | (1.002) | 1487493  | 10.0000            | 9.868             |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 23.480 | 23.474 | (0.959) | 994125   | 10.0000            | 10.02             |
| * 134 Di-n-octylphthalate-d4      | 153       | 24.479 | 24.480 | (1.000) | 674085   | 4.00000            |                   |
| 73 Di-n-octylphthalate            | 149       | 24.494 | 24.488 | (1.001) | 1707970  | 10.0000            | 9.682             |
| 74 Benzo(b)fluoranthene           | 252       | 25.377 | 25.362 | (0.969) | 1615210  | 10.0000            | 10.75             |
| 75 Benzo(k)fluoranthene           | 252       | 25.423 | 25.409 | (0.971) | 1513928  | 10.0000            | 9.925             |
| 76 Benzo(a)pyrene                 | 252       | 26.066 | 26.052 | (0.996) | 1429031  | 10.0000            | 10.64             |
| * 77 Perylene-d12                 | 264       | 26.182 | 26.183 | (1.000) | 463440   | 4.00000            |                   |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 29.020 | 28.990 | (1.108) | 1834722  | 10.0000            | 10.74             |
| 79 Dibenzo(a,h)anthracene         | 278       | 29.027 | 29.005 | (1.109) | 1513126  | 10.0000            | 10.67             |
| 80 Benzo(g,h,i)perylene           | 276       | 29.859 | 29.821 | (1.140) | 1583026  | 10.0000            | 10.71             |
| 90 N-Nitrosodimethylamine         | 74        | 4.935  | 4.936  | (0.531) | 623452   | 20.0000            | 18.47             |
| 91 Aniline                        | 93        | 8.759  | 8.752  | (0.942) | 1394783  | 20.0000            | 18.87             |
| 93 Benzidine                      | 184       | 21.072 | 21.066 | (0.898) | 1529058  | 20.0000            | 21.19             |
| 103 Pyridine                      | 79        | 4.951  | 4.997  | (0.532) | 925439   | 20.0000            | 17.85             |
| 105 1-methylnaphthalene           | 142       | 13.432 | 13.425 | (1.141) | 1103224  | 10.0000            | 9.935             |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 16.796 | 16.789 | (1.092) | 1203614  | 10.0000            | 9.825             |

| Compounds                     | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                               | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       |  | 25.423 | 25.409 | (0.971) | 2985651  | 20.0000            | 20.58             |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 16.101 | 16.103 | (1.047) | 374893   | 10.0000            | 10.09             |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023  
 Lab File ID: NT10031503.D Calibration Time: 21:50  
 Lab Smp Id: SLC0228-CAL6  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 171542   | 85771      | 343084  | 174984 | 2.01  |
| 27 Naphthalene-d8     | 624466   | 312233     | 1248932 | 633941 | 1.52  |
| 42 Acenaphthene-d10   | 337226   | 168613     | 674452  | 344087 | 2.03  |
| 59 Phenanthrene-d10   | 572849   | 286425     | 1145698 | 605930 | 5.77  |
| 69 Chrysene-d12       | 347068   | 173534     | 694136  | 437116 | 25.95 |
| 134 Di-n-octylphthala | 500317   | 250159     | 1000634 | 674085 | 34.73 |
| 77 Perylene-d12       | 421549   | 210775     | 843098  | 463440 | 9.94  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.30     | 8.80     | 9.80  | 9.30   | -0.00 |
| 27 Naphthalene-d8     | 11.78    | 11.28    | 12.28 | 11.78  | -0.00 |
| 42 Acenaphthene-d10   | 15.38    | 14.88    | 15.88 | 15.38  | -0.00 |
| 59 Phenanthrene-d10   | 18.42    | 17.92    | 18.92 | 18.42  | -0.00 |
| 69 Chrysene-d12       | 23.45    | 22.95    | 23.95 | 23.46  | 0.03  |
| 134 Di-n-octylphthala | 24.48    | 23.98    | 24.98 | 24.48  | -0.00 |
| 77 Perylene-d12       | 26.18    | 25.68    | 26.68 | 26.18  | -0.00 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT10031503.D

Lab ID: SLC0228-CAL6  
nt10.i, 20230315.b\ABN.m, 15-MAR-2023 21:12

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND     |
|-------|---------|---------|--------------|
| 0.962 | 0.000   | 0.9618  | Benzoic acid |
| 0.532 | 0.538   | -0.0054 | Pyridine     |

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*



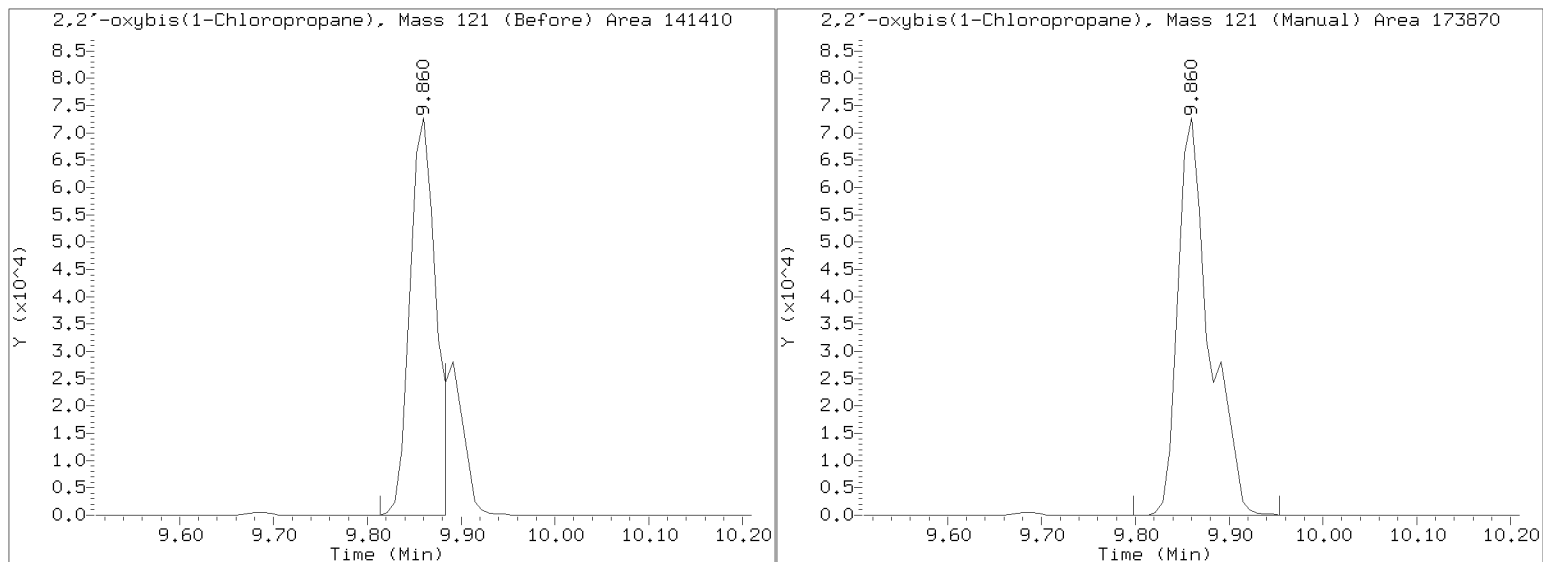
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/NT10031503.D

Injection Date: 15-MAR-2023 21:12

Lab ID: SLC0228-CAL6 Client ID:

Report Date: 03/16/2023 12:20



Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031504.D

Date: 15-MAR-2023 21:50

Client ID:

Sample Info: SLC0228-CALS

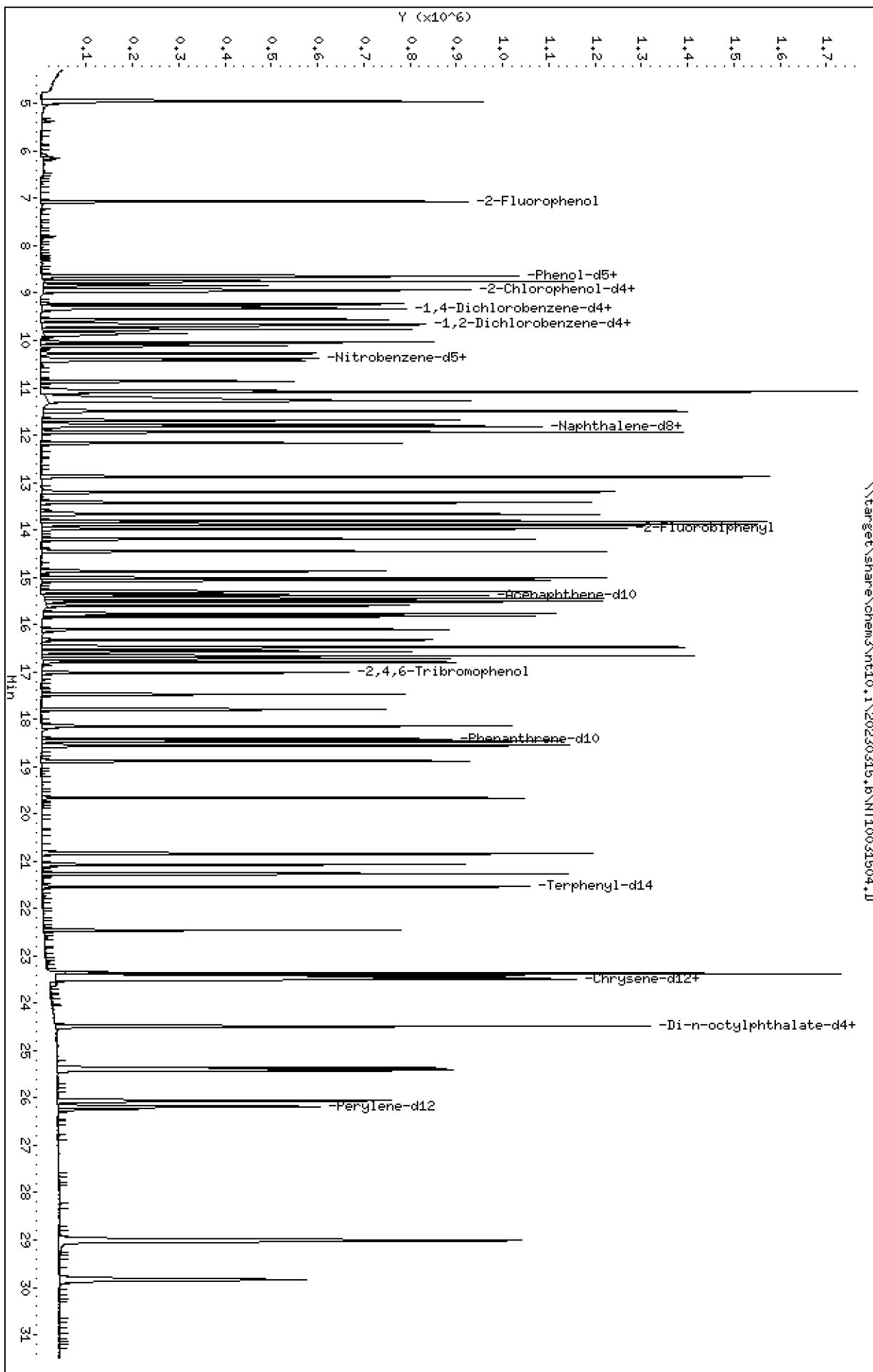
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031504.D  
 Lab Smp Id: SLC0228-CAL5  
 Inj Date : 15-MAR-2023 21:50  
 Operator : VTS  
 Smp Info : SLC0228-CAL5  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Meth Date : 16-Mar-2023 12:06 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i  
 Quant Type: ISTD  
 Cal File: NT10031508.D  
 Calibration Sample, Level: 5  
 Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS |           |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
|                                 |       |     |        |        |         |          | CAL-AMT | ON-COL    |
|                                 | MASS  |     |        |        |         |          | (ug/mL) | (ug/mL)   |
| \$ 1 2-Fluorophenol             | 112   |     | 7.068  | 7.068  | (0.760) | 389299   | 7.50000 | 7.504     |
| \$ 2 Phenol-d5                  | 99    |     | 8.636  | 8.636  | (0.928) | 517751   | 7.50000 | 7.608     |
| 3 Phenol                        | 94    |     | 8.659  | 8.652  | (0.931) | 348755   | 5.00000 | 4.932     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.930  | 8.930  | (0.960) | 442224   | 7.50000 | 7.610     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.837  | 8.837  | (0.950) | 257735   | 5.00000 | 4.914     |
| 6 2-Chlorophenol                | 128   |     | 8.960  | 8.961  | (0.963) | 295042   | 5.00000 | 4.875     |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.231  | 9.231  | (0.992) | 308253   | 5.00000 | 4.817     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.301  | 9.293  | (1.000) | 171542   | 4.00000 |           |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.324  | 9.325  | (1.002) | 302437   | 5.00000 | 4.893     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.658  | 9.658  | (1.038) | 203496   | 5.00000 | 4.876     |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.681  | 9.682  | (1.041) | 295133   | 5.00000 | 4.851     |
| 11 Benzyl alcohol               | 108   |     | 9.557  | 9.557  | (1.028) | 175758   | 5.00000 | 5.295     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.860  | 9.860  | (1.060) | 84897    | 5.00000 | 4.752 (M) |
| 13 2-Methylphenol               | 108   |     | 9.775  | 9.767  | (1.051) | 259972   | 5.00000 | 5.043     |
| 17 Hexachloroethane             | 117   |     | 10.271 | 10.271 | (1.104) | 125853   | 5.00000 | 4.962     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 10.116 | 10.108 | (1.088) | 207311   | 5.00000 | 5.093     |
| 15 4-Methylphenol               | 108   |     | 10.038 | 10.031 | (1.079) | 275961   | 5.00000 | 5.080     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.388 | 10.388 | (0.882) | 326832   | 5.00000 | 5.185     |
| 19 Nitrobenzene                 | 77    |     | 10.426 | 10.419 | (0.885) | 310914   | 5.00000 | 5.026     |
| 20 Isophorone                   | 82    |     | 10.861 | 10.861 | (0.922) | 396361   | 5.00000 | 5.009     |
| 21 2-Nitrophenol                | 139   |     | 11.047 | 11.048 | (0.938) | 152976   | 5.00000 | 5.059     |
| 22 2,4-Dimethylphenol           | 107   |     | 11.081 | 11.082 | (0.941) | 561764   | 10.0000 | 9.887     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.284 | 11.285 | (0.958) | 255208   | 5.00000 | 4.828     |
| 24 Benzoic acid                 | 105   |     | 11.276 | 11.166 | (0.957) | 660270   | 20.0000 | 19.96     |
| 25 2,4-Dichlorophenol           | 162   |     | 11.497 | 11.489 | (0.976) | 475467   | 10.0000 | 10.46     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.684 | 11.685 | (0.992) | 258021   | 5.00000 | 4.835     |
| * 27 Naphthalene-d8             | 136   |     | 11.777 | 11.770 | (1.000) | 624466   | 4.00000 |           |
| 28 Naphthalene                  | 128   |     | 11.815 | 11.816 | (1.003) | 811352   | 5.00000 | 4.904     |
| 29 4-Chloroaniline              | 127   |     | 11.939 | 11.940 | (1.014) | 663111   | 10.0000 | 10.27     |
| 30 Hexachlorobutadiene          | 225   |     | 12.171 | 12.172 | (1.033) | 152701   | 5.00000 | 4.883     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.875 | 12.876 | (1.093) | 507195   | 10.0000 | 10.30     |
| 32 2-Methylnaphthalene          | 142   |     | 13.200 | 13.201 | (1.121) | 601081   | 5.00000 | 5.035     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.664 | 13.665 | (0.888) | 324634   | 10.0000 | 10.40     |

| Compounds                         | QUANT SIG |        |        | AMOUNTS |          |                    |                   |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 13.819 | 13.820 | (0.898) | 343842   | 10.0000            | 10.32             |
| 35 2,4,5-Trichlorophenol          | 196       | 13.889 | 13.890 | (0.903) | 380542   | 10.0000            | 10.28             |
| § 36 2-Fluorobiphenyl             | 172       | 13.982 | 13.975 | (0.909) | 654752   | 5.00000            | 4.908             |
| 37 2-Chloronaphthalene            | 162       | 14.198 | 14.191 | (0.923) | 530286   | 5.00000            | 4.909             |
| 38 2-Nitroaniline                 | 65        | 14.454 | 14.447 | (0.940) | 319171   | 10.0000            | 10.52             |
| 39 Dimethylphthalate              | 163       | 14.879 | 14.873 | (0.967) | 534213   | 5.00000            | 4.876             |
| 40 Acenaphthylene                 | 152       | 15.065 | 15.066 | (0.979) | 830053   | 5.00000            | 4.932             |
| 41 2,6-Dinitrotoluene             | 165       | 15.019 | 15.012 | (0.976) | 246779   | 10.0000            | 10.43             |
| * 42 Acenaphthene-d10             | 164       | 15.382 | 15.383 | (1.000) | 337226   | 4.00000            |                   |
| 43 3-Nitroaniline                 | 138       | 15.305 | 15.298 | (0.995) | 273315   | 10.0000            | 10.23             |
| 44 Acenaphthene                   | 153       | 15.444 | 15.445 | (1.004) | 504323   | 5.00000            | 4.850             |
| 45 2,4-Dinitrophenol              | 184       | 15.514 | 15.515 | (1.009) | 266923   | 20.0000            | 18.02             |
| 46 Dibenzofuran                   | 168       | 15.769 | 15.770 | (1.025) | 756537   | 5.00000            | 4.934             |
| 47 4-Nitrophenol                  | 109       | 15.599 | 15.592 | (1.014) | 160601   | 10.0000            | 9.617             |
| 48 2,4-Dinitrotoluene             | 165       | 15.823 | 15.817 | (1.029) | 337620   | 10.0000            | 9.579             |
| 50 Diethylphthalate               | 149       | 16.326 | 16.319 | (1.061) | 526014   | 5.00000            | 4.894             |
| 49 Fluorene                       | 166       | 16.488 | 16.481 | (1.072) | 590490   | 5.00000            | 4.895             |
| 51 4-Chlorophenyl-phenylether     | 204       | 16.465 | 16.466 | (1.070) | 281249   | 5.00000            | 4.903             |
| 52 4-Nitroaniline                 | 138       | 16.573 | 16.566 | (1.077) | 246501   | 10.0000            | 10.24             |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 16.665 | 16.658 | (0.905) | 335578   | 20.0000            | 18.99             |
| 54 N-Nitrosodiphenylamine         | 169       | 16.719 | 16.712 | (0.908) | 371008   | 5.00000            | 4.844             |
| § 55 2,4,6-Tribromophenol         | 330       | 17.020 | 17.021 | (1.106) | 112412   | 7.50000            | 7.152             |
| 56 4-Bromophenyl-phenylether      | 248       | 17.475 | 17.476 | (0.949) | 165732   | 5.00000            | 5.173             |
| 57 Hexachlorobenzene              | 284       | 17.792 | 17.793 | (0.966) | 162915   | 5.00000            | 4.850             |
| 58 Pentachlorophenol              | 266       | 18.148 | 18.149 | (0.985) | 191672   | 10.0000            | 9.471             |
| * 59 Phenanthrene-d10             | 188       | 18.419 | 18.420 | (1.000) | 572849   | 4.00000            |                   |
| 60 Phenanthrene                   | 178       | 18.465 | 18.466 | (1.003) | 753291   | 5.00000            | 4.822             |
| 61 Anthracene                     | 178       | 18.558 | 18.559 | (1.008) | 753981   | 5.00000            | 5.032             |
| 62 Carbazole                      | 167       | 18.883 | 18.884 | (1.025) | 643836   | 5.00000            | 4.795             |
| 63 Di-n-butylphthalate            | 149       | 19.664 | 19.666 | (1.068) | 843782   | 5.00000            | 4.697             |
| 64 Fluoranthene                   | 202       | 20.840 | 20.841 | (0.889) | 758837   | 5.00000            | 5.441             |
| 65 Pyrene                         | 202       | 21.266 | 21.267 | (0.907) | 754525   | 5.00000            | 5.274             |
| § 66 Terphenyl-d14                | 244       | 21.537 | 21.538 | (0.918) | 546879   | 5.00000            | 5.090             |
| 67 Butylbenzylphthalate           | 149       | 22.458 | 22.460 | (0.958) | 257731   | 5.00000            | 4.972             |
| 68 Benzo(a)anthracene             | 228       | 23.418 | 23.419 | (0.999) | 612627   | 5.00000            | 5.001             |
| * 69 Chrysene-d12                 | 240       | 23.449 | 23.450 | (1.000) | 347068   | 4.00000            |                   |
| 70 3,3'-Dichlorobenzidine         | 252       | 23.372 | 23.373 | (0.997) | 532591   | 15.0000            | 13.57             |
| 71 Chrysene                       | 228       | 23.496 | 23.489 | (1.002) | 596175   | 5.00000            | 4.981             |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 23.473 | 23.474 | (0.959) | 367877   | 5.00000            | 5.011             |
| * 134 Di-n-octylphthalate-d4      | 153       | 24.479 | 24.480 | (1.000) | 500317   | 4.00000            |                   |
| 73 Di-n-octylphthalate            | 149       | 24.495 | 24.488 | (1.001) | 642200   | 5.00000            | 4.905             |
| 74 Benzo(b)fluoranthene           | 252       | 25.369 | 25.362 | (0.969) | 700635   | 5.00000            | 5.127 (H)         |
| 75 Benzo(k)fluoranthene           | 252       | 25.416 | 25.409 | (0.971) | 673988   | 5.00000            | 4.857             |
| 76 Benzo(a)pyrene                 | 252       | 26.058 | 26.052 | (0.995) | 635688   | 5.00000            | 5.203             |
| * 77 Perylene-d12                 | 264       | 26.182 | 26.183 | (1.000) | 421549   | 4.00000            |                   |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 29.004 | 28.990 | (1.108) | 858348   | 5.00000            | 5.522             |
| 79 Dibenzo(a,h)anthracene         | 278       | 29.020 | 29.005 | (1.108) | 711419   | 5.00000            | 5.513             |
| 80 Benzo(g,h,i)perylene           | 276       | 29.836 | 29.821 | (1.140) | 752407   | 5.00000            | 5.594             |
| 90 N-Nitrosodimethylamine         | 74        | 4.928  | 4.936  | (0.530) | 330376   | 10.0000            | 9.982             |
| 91 Aniline                        | 93        | 8.752  | 8.752  | (0.941) | 716385   | 10.0000            | 9.886             |
| 93 Benzidine                      | 184       | 21.065 | 21.066 | (0.898) | 565285   | 10.0000            | 9.868             |
| 103 Pyridine                      | 79        | 4.951  | 4.997  | (0.532) | 520909   | 10.0000            | 10.25             |
| 105 1-methylnaphthalene           | 142       | 13.432 | 13.425 | (1.141) | 551037   | 5.00000            | 5.038             |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 16.796 | 16.789 | (1.092) | 603260   | 5.00000            | 5.024             |

| Compounds                     | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                               | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| =====                         | =====     |  | =====  | =====  | =====   | =====    | =====              |                   |
| 187 Total Benzofluoranthenes  | 252       |  | 25.416 | 25.409 | (0.971) | 1318971  | 10.0000            | 9.997             |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 16.101 | 16.103 | (1.047) | 169344   | 5.00000            | 4.836             |

QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023  
 Lab File ID: NT10031504.D Calibration Time: 21:50  
 Lab Smp Id: SLC0228-CAL5  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 171542   | 85771      | 343084  | 171542 | 0.00  |
| 27 Naphthalene-d8     | 624466   | 312233     | 1248932 | 624466 | 0.00  |
| 42 Acenaphthene-d10   | 337226   | 168613     | 674452  | 337226 | 0.00  |
| 59 Phenanthrene-d10   | 572849   | 286425     | 1145698 | 572849 | 0.00  |
| 69 Chrysene-d12       | 347068   | 173534     | 694136  | 347068 | 0.00  |
| 134 Di-n-octylphthala | 500317   | 250159     | 1000634 | 500317 | 0.00  |
| 77 Perylene-d12       | 421549   | 210775     | 843098  | 421549 | 0.00  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.30     | 8.80     | 9.80  | 9.30   | 0.00  |
| 27 Naphthalene-d8     | 11.78    | 11.28    | 12.28 | 11.78  | 0.00  |
| 42 Acenaphthene-d10   | 15.38    | 14.88    | 15.88 | 15.38  | 0.00  |
| 59 Phenanthrene-d10   | 18.42    | 17.92    | 18.92 | 18.42  | 0.00  |
| 69 Chrysene-d12       | 23.45    | 22.95    | 23.95 | 23.45  | 0.00  |
| 134 Di-n-octylphthala | 24.48    | 23.98    | 24.98 | 24.48  | 0.00  |
| 77 Perylene-d12       | 26.18    | 25.68    | 26.68 | 26.18  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT10031504.D

Lab ID: SLC0228-CAL5  
nt10.i, 20230315.b\ABN.m, 15-MAR-2023 21:50

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND     |
|-------|---------|---------|--------------|
| 0.957 | 0.000   | 0.9575  | Benzoic acid |
| 0.532 | 0.538   | -0.0054 | Pyridine     |

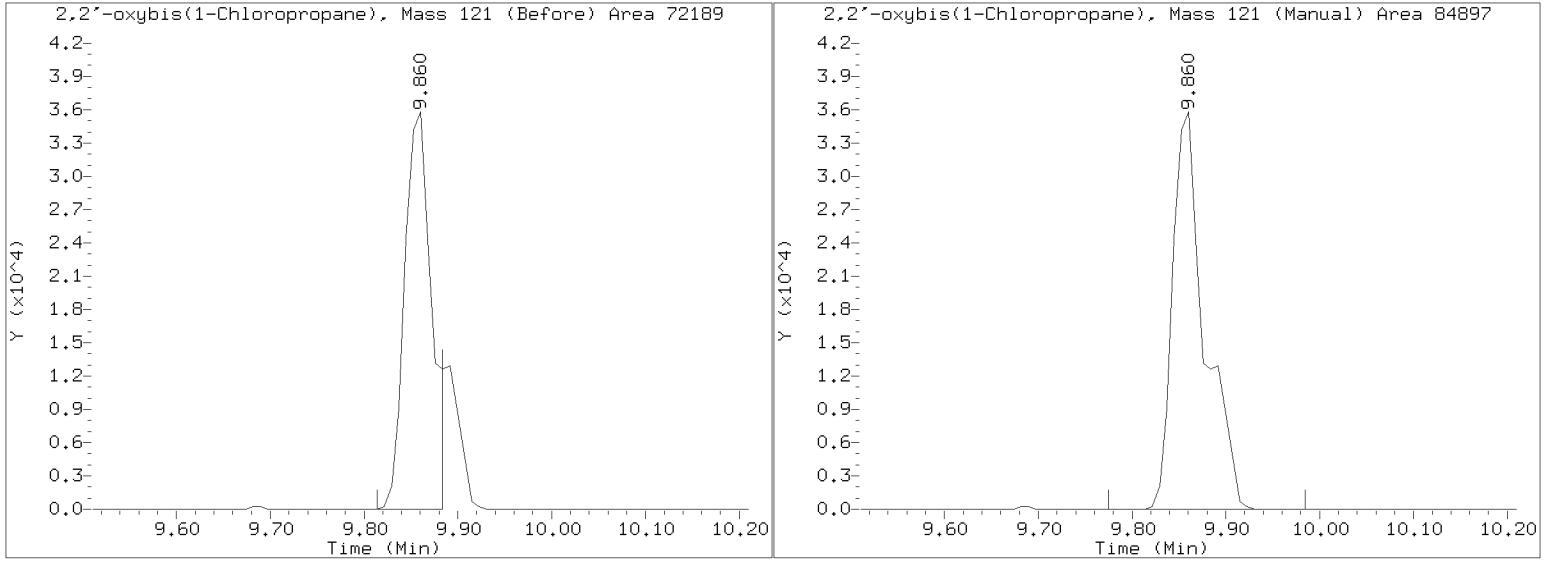
RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/NT10031504.D  
Injection Date: 15-MAR-2023 21:50  
Lab ID:SLC0228-CAL5 Client ID:  
Report Date: 03/16/2023 12:20





Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031505.D

Date: 15-MAR-2023 22:28

Client ID:

Sample Info: SLC0228-CAL4

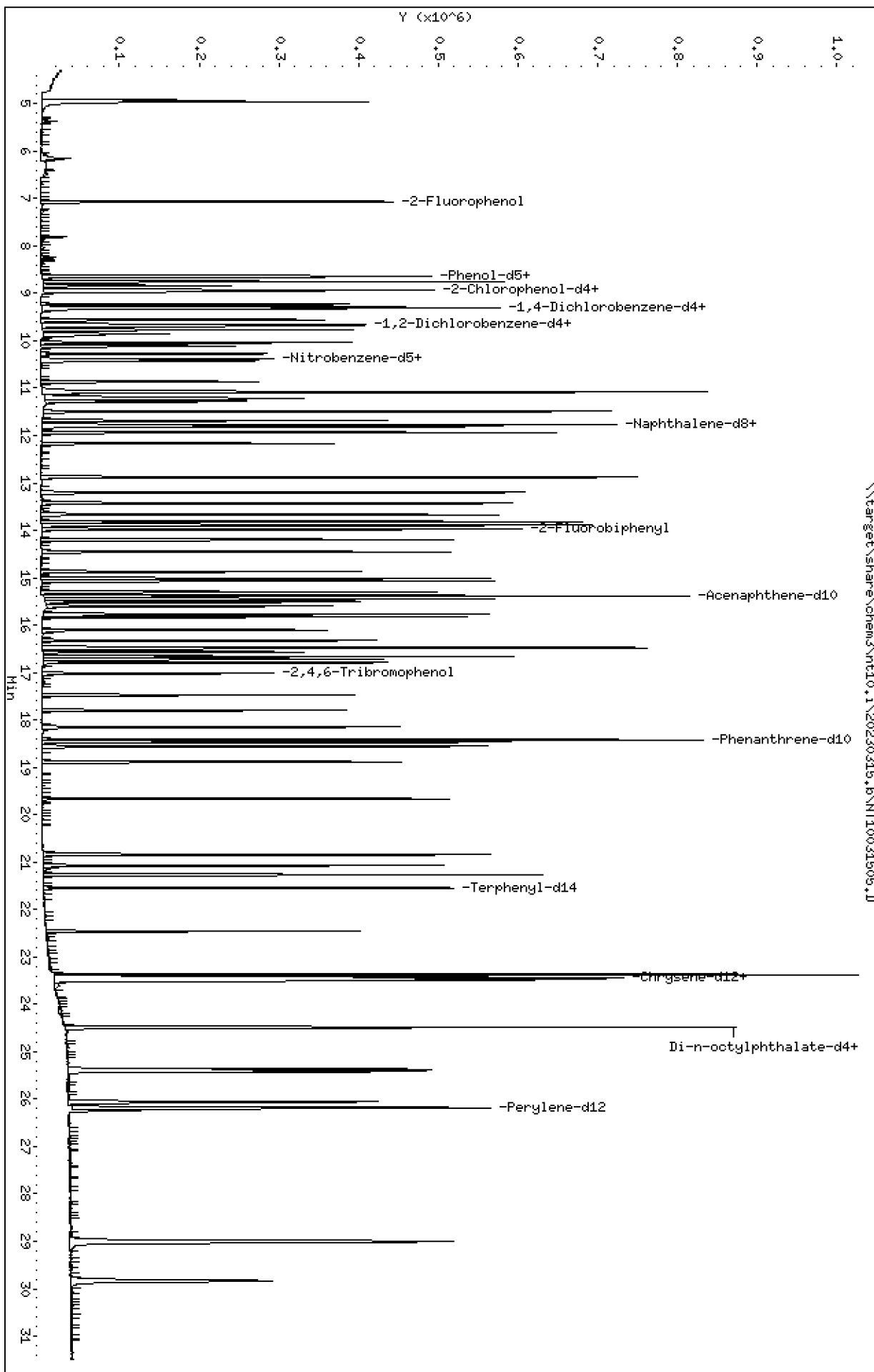
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20230315.6\NT10031505.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031505.D  
 Lab Smp Id: SLC0228-CAL4  
 Inj Date : 15-MAR-2023 22:28  
 Operator : VTS  
 Smp Info : SLC0228-CAL4  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Meth Date : 16-Mar-2023 12:06 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 5  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i  
 Quant Type: ISTD  
 Cal File: NT10031508.D  
 Calibration Sample, Level: 4  
 Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS |           |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
|                                 |       |     |        |        |         |          | CAL-AMT | ON-COL    |
|                                 | MASS  |     |        |        |         |          | (ug/mL) | (ug/mL)   |
| \$ 1 2-Fluorophenol             | 112   |     | 7.068  | 7.068  | (0.760) | 193847   | 3.75000 | 4.042     |
| \$ 2 Phenol-d5                  | 99    |     | 8.628  | 8.636  | (0.928) | 251443   | 3.75000 | 3.997     |
| 3 Phenol                        | 94    |     | 8.659  | 8.652  | (0.931) | 172616   | 2.50000 | 2.641     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.930  | 8.930  | (0.960) | 211122   | 3.75000 | 3.930     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.837  | 8.837  | (0.950) | 126678   | 2.50000 | 2.613     |
| 6 2-Chlorophenol                | 128   |     | 8.961  | 8.961  | (0.963) | 142338   | 2.50000 | 2.544     |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.231  | 9.231  | (0.992) | 152662   | 2.50000 | 2.581     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.301  | 9.293  | (1.000) | 158570   | 4.00000 |           |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.325  | 9.325  | (1.002) | 145660   | 2.50000 | 2.549     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.658  | 9.658  | (1.038) | 101442   | 2.50000 | 2.630     |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.682  | 9.682  | (1.041) | 145355   | 2.50000 | 2.585     |
| 11 Benzyl alcohol               | 108   |     | 9.557  | 9.557  | (1.028) | 83433    | 2.50000 | 2.719     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.860  | 9.860  | (1.060) | 41898    | 2.50000 | 2.537 (M) |
| 13 2-Methylphenol               | 108   |     | 9.775  | 9.767  | (1.051) | 126793   | 2.50000 | 2.661     |
| 17 Hexachloroethane             | 117   |     | 10.271 | 10.271 | (1.104) | 60297    | 2.50000 | 2.572     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 10.116 | 10.108 | (1.088) | 99798    | 2.50000 | 2.652     |
| 15 4-Methylphenol               | 108   |     | 10.031 | 10.031 | (1.078) | 136212   | 2.50000 | 2.713     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.388 | 10.388 | (0.882) | 155018   | 2.50000 | 2.638     |
| 19 Nitrobenzene                 | 77    |     | 10.419 | 10.419 | (0.885) | 150373   | 2.50000 | 2.608     |
| 20 Isophorone                   | 82    |     | 10.861 | 10.861 | (0.922) | 188366   | 2.50000 | 2.554     |
| 21 2-Nitrophenol                | 139   |     | 11.048 | 11.048 | (0.938) | 67668    | 2.50000 | 2.408     |
| 22 2,4-Dimethylphenol           | 107   |     | 11.082 | 11.082 | (0.941) | 275973   | 5.00000 | 5.211     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.285 | 11.285 | (0.958) | 128878   | 2.50000 | 2.616     |
| 24 Benzoic acid                 | 105   |     | 11.226 | 11.166 | (0.953) | 255448   | 10.0000 | 8.521     |
| 25 2,4-Dichlorophenol           | 162   |     | 11.489 | 11.489 | (0.975) | 248784   | 5.00000 | 5.870     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.685 | 11.685 | (0.992) | 126241   | 2.50000 | 2.538     |
| * 27 Naphthalene-d8             | 136   |     | 11.778 | 11.770 | (1.000) | 582079   | 4.00000 |           |
| 28 Naphthalene                  | 128   |     | 11.816 | 11.816 | (1.003) | 394779   | 2.50000 | 2.560     |
| 29 4-Chloroaniline              | 127   |     | 11.940 | 11.940 | (1.014) | 311237   | 5.00000 | 5.174     |
| 30 Hexachlorobutadiene          | 225   |     | 12.172 | 12.172 | (1.033) | 73952    | 2.50000 | 2.537     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.876 | 12.876 | (1.093) | 235798   | 5.00000 | 5.140     |
| 32 2-Methylnaphthalene          | 142   |     | 13.201 | 13.201 | (1.121) | 287604   | 2.50000 | 2.584     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.665 | 13.665 | (0.888) | 146958   | 5.00000 | 5.177     |

| Compounds                         | QUANT SIG |        |        |         |          | AMOUNTS            |                   |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 13.820 | 13.820 | (0.898) | 156867   | 5.00000            | 5.174             |
| 35 2,4,5-Trichlorophenol          | 196       | 13.890 | 13.890 | (0.903) | 175400   | 5.00000            | 5.207             |
| § 36 2-Fluorobiphenyl             | 172       | 13.983 | 13.975 | (0.909) | 311690   | 2.50000            | 2.569             |
| 37 2-Chloronaphthalene            | 162       | 14.199 | 14.191 | (0.923) | 255513   | 2.50000            | 2.601             |
| 38 2-Nitroaniline                 | 65        | 14.447 | 14.447 | (0.939) | 147440   | 5.00000            | 5.343             |
| 39 Dimethylphthalate              | 163       | 14.873 | 14.873 | (0.967) | 256501   | 2.50000            | 2.574             |
| 40 Acenaphthylene                 | 152       | 15.066 | 15.066 | (0.979) | 402926   | 2.50000            | 2.632             |
| 41 2,6-Dinitrotoluene             | 165       | 15.020 | 15.012 | (0.976) | 112979   | 5.00000            | 5.249             |
| * 42 Acenaphthene-d10             | 164       | 15.383 | 15.383 | (1.000) | 306729   | 4.00000            |                   |
| 43 3-Nitroaniline                 | 138       | 15.298 | 15.298 | (0.994) | 127560   | 5.00000            | 5.250             |
| 44 Acenaphthene                   | 153       | 15.445 | 15.445 | (1.004) | 240853   | 2.50000            | 2.547             |
| 45 2,4-Dinitrophenol              | 184       | 15.515 | 15.515 | (1.009) | 95470    | 10.0000            | 7.246             |
| 46 Dibenzofuran                   | 168       | 15.770 | 15.770 | (1.025) | 362747   | 2.50000            | 2.601             |
| 47 4-Nitrophenol                  | 109       | 15.600 | 15.592 | (1.014) | 72524    | 5.00000            | 4.760             |
| 48 2,4-Dinitrotoluene             | 165       | 15.824 | 15.817 | (1.029) | 155514   | 5.00000            | 4.813             |
| 50 Diethylphthalate               | 149       | 16.326 | 16.319 | (1.061) | 253004   | 2.50000            | 2.588             |
| 49 Fluorene                       | 166       | 16.481 | 16.481 | (1.071) | 287640   | 2.50000            | 2.622             |
| 51 4-Chlorophenyl-phenylether     | 204       | 16.466 | 16.466 | (1.070) | 132439   | 2.50000            | 2.538             |
| 52 4-Nitroaniline                 | 138       | 16.566 | 16.566 | (1.077) | 90510    | 5.00000            | 4.134             |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 16.658 | 16.658 | (0.904) | 137459   | 10.0000            | 8.630             |
| 54 N-Nitrosodiphenylamine         | 169       | 16.720 | 16.712 | (0.908) | 183659   | 2.50000            | 2.630             |
| § 55 2,4,6-Tribromophenol         | 330       | 17.021 | 17.021 | (1.106) | 50739    | 3.75000            | 3.532             |
| 56 4-Bromophenyl-phenylether      | 248       | 17.476 | 17.476 | (0.949) | 76926    | 2.50000            | 2.633             |
| 57 Hexachlorobenzene              | 284       | 17.793 | 17.793 | (0.966) | 79507    | 2.50000            | 2.596             |
| 58 Pentachlorophenol              | 266       | 18.149 | 18.149 | (0.985) | 82114    | 5.00000            | 4.494             |
| * 59 Phenanthrene-d10             | 188       | 18.420 | 18.420 | (1.000) | 522311   | 4.00000            |                   |
| 60 Phenanthrene                   | 178       | 18.466 | 18.466 | (1.003) | 367912   | 2.50000            | 2.583             |
| 61 Anthracene                     | 178       | 18.559 | 18.559 | (1.008) | 364097   | 2.50000            | 2.665             |
| 62 Carbazole                      | 167       | 18.884 | 18.884 | (1.025) | 320923   | 2.50000            | 2.621             |
| 63 Di-n-butylphthalate            | 149       | 19.665 | 19.666 | (1.068) | 388084   | 2.50000            | 2.363             |
| 64 Fluoranthene                   | 202       | 20.841 | 20.841 | (0.889) | 377104   | 2.50000            | 2.634             |
| 65 Pyrene                         | 202       | 21.267 | 21.267 | (0.907) | 384702   | 2.50000            | 2.620             |
| § 66 Terphenyl-d14                | 244       | 21.545 | 21.538 | (0.919) | 288420   | 2.50000            | 2.615             |
| 67 Butylbenzylphthalate           | 149       | 22.459 | 22.460 | (0.958) | 123600   | 2.50000            | 2.364             |
| 68 Benzo(a)anthracene             | 228       | 23.419 | 23.419 | (0.999) | 330796   | 2.50000            | 2.630             |
| * 69 Chrysene-d12                 | 240       | 23.450 | 23.450 | (1.000) | 356282   | 4.00000            |                   |
| 70 3,3'-Dichlorobenzidine         | 252       | 23.373 | 23.373 | (0.997) | 311978   | 7.50000            | 7.745             |
| 71 Chrysene                       | 228       | 23.497 | 23.489 | (1.002) | 313344   | 2.50000            | 2.550             |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 23.481 | 23.474 | (0.959) | 172996   | 2.50000            | 2.503             |
| * 134 Di-n-octylphthalate-d4      | 153       | 24.480 | 24.480 | (1.000) | 471925   | 4.00000            |                   |
| 73 Di-n-octylphthalate            | 149       | 24.495 | 24.488 | (1.001) | 311915   | 2.50000            | 2.526             |
| 74 Benzo(b)fluoranthene           | 252       | 25.370 | 25.362 | (0.969) | 353167   | 2.50000            | 2.590 (H)         |
| 75 Benzo(k)fluoranthene           | 252       | 25.417 | 25.409 | (0.971) | 351229   | 2.50000            | 2.536             |
| 76 Benzo(a)pyrene                 | 252       | 26.059 | 26.052 | (0.995) | 320887   | 2.50000            | 2.632             |
| * 77 Perylene-d12                 | 264       | 26.183 | 26.183 | (1.000) | 420725   | 4.00000            |                   |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 28.998 | 28.990 | (1.107) | 418167   | 2.50000            | 2.696             |
| 79 Dibenzo(a,h)anthracene         | 278       | 29.021 | 29.005 | (1.108) | 347350   | 2.50000            | 2.697             |
| 80 Benzo(g,h,i)perylene           | 276       | 29.836 | 29.821 | (1.140) | 356933   | 2.50000            | 2.659             |
| 90 N-Nitrosodimethylamine         | 74        | 4.928  | 4.936  | (0.530) | 165395   | 5.00000            | 5.406             |
| 91 Aniline                        | 93        | 8.752  | 8.752  | (0.941) | 348101   | 5.00000            | 5.197             |
| 93 Benzidine                      | 184       | 21.066 | 21.066 | (0.898) | 314268   | 5.00000            | 5.344             |
| 103 Pyridine                      | 79        | 4.959  | 4.997  | (0.533) | 256226   | 5.00000            | 5.453             |
| 105 1-methylnaphthalene           | 142       | 13.425 | 13.425 | (1.140) | 261060   | 2.50000            | 2.560             |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 16.789 | 16.789 | (1.091) | 284356   | 2.50000            | 2.604             |

| Compounds                     | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                               | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| =====                         | =====     |  | =====  | =====  | =====   | =====    | =====              |                   |
| 187 Total Benzofluoranthenes  | 252       |  | 25.370 | 25.409 | (0.969) | 673447   | 5.00000            | 5.114             |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 16.102 | 16.103 | (1.047) | 82842    | 2.50000            | 2.640             |

QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023  
 Lab File ID: NT10031505.D Calibration Time: 21:50  
 Lab Smp Id: SLC0228-CAL4  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 171542   | 85771      | 343084  | 158570 | -7.56 |
| 27 Naphthalene-d8     | 624466   | 312233     | 1248932 | 582079 | -6.79 |
| 42 Acenaphthene-d10   | 337226   | 168613     | 674452  | 306729 | -9.04 |
| 59 Phenanthrene-d10   | 572849   | 286425     | 1145698 | 522311 | -8.82 |
| 69 Chrysene-d12       | 347068   | 173534     | 694136  | 356282 | 2.65  |
| 134 Di-n-octylphthala | 500317   | 250159     | 1000634 | 471925 | -5.67 |
| 77 Perylene-d12       | 421549   | 210775     | 843098  | 420725 | -0.20 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.30     | 8.80     | 9.80  | 9.30   | 0.00  |
| 27 Naphthalene-d8     | 11.78    | 11.28    | 12.28 | 11.78  | 0.01  |
| 42 Acenaphthene-d10   | 15.38    | 14.88    | 15.88 | 15.38  | 0.01  |
| 59 Phenanthrene-d10   | 18.42    | 17.92    | 18.92 | 18.42  | 0.00  |
| 69 Chrysene-d12       | 23.45    | 22.95    | 23.95 | 23.45  | 0.00  |
| 134 Di-n-octylphthala | 24.48    | 23.98    | 24.98 | 24.48  | 0.00  |
| 77 Perylene-d12       | 26.18    | 25.68    | 26.68 | 26.18  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT10031505.D

Lab ID: SLC0228-CAL4  
nt10.i, 20230315.b\ABN.m, 15-MAR-2023 22:28

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND     |
|-------|---------|--------|--------------|
| 0.953 | 0.000   | 0.9532 | Benzoic acid |

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

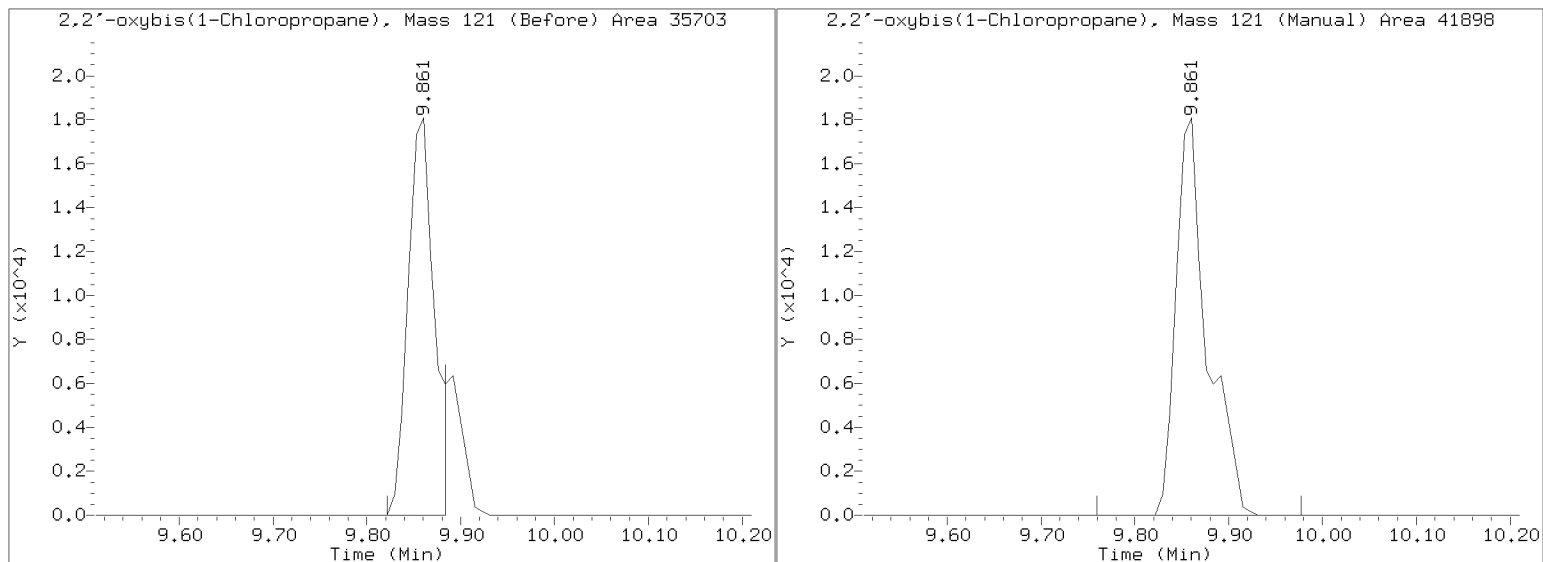
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/NT10031505.D

Injection Date: 15-MAR-2023 22:28

Lab ID: SLC0228-CAL4 Client ID:

Report Date: 03/16/2023 12:20



Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031506.D

Date: 15-MAR-2023 23:06

Client ID:

Sample Info: SLC0228-CAL3

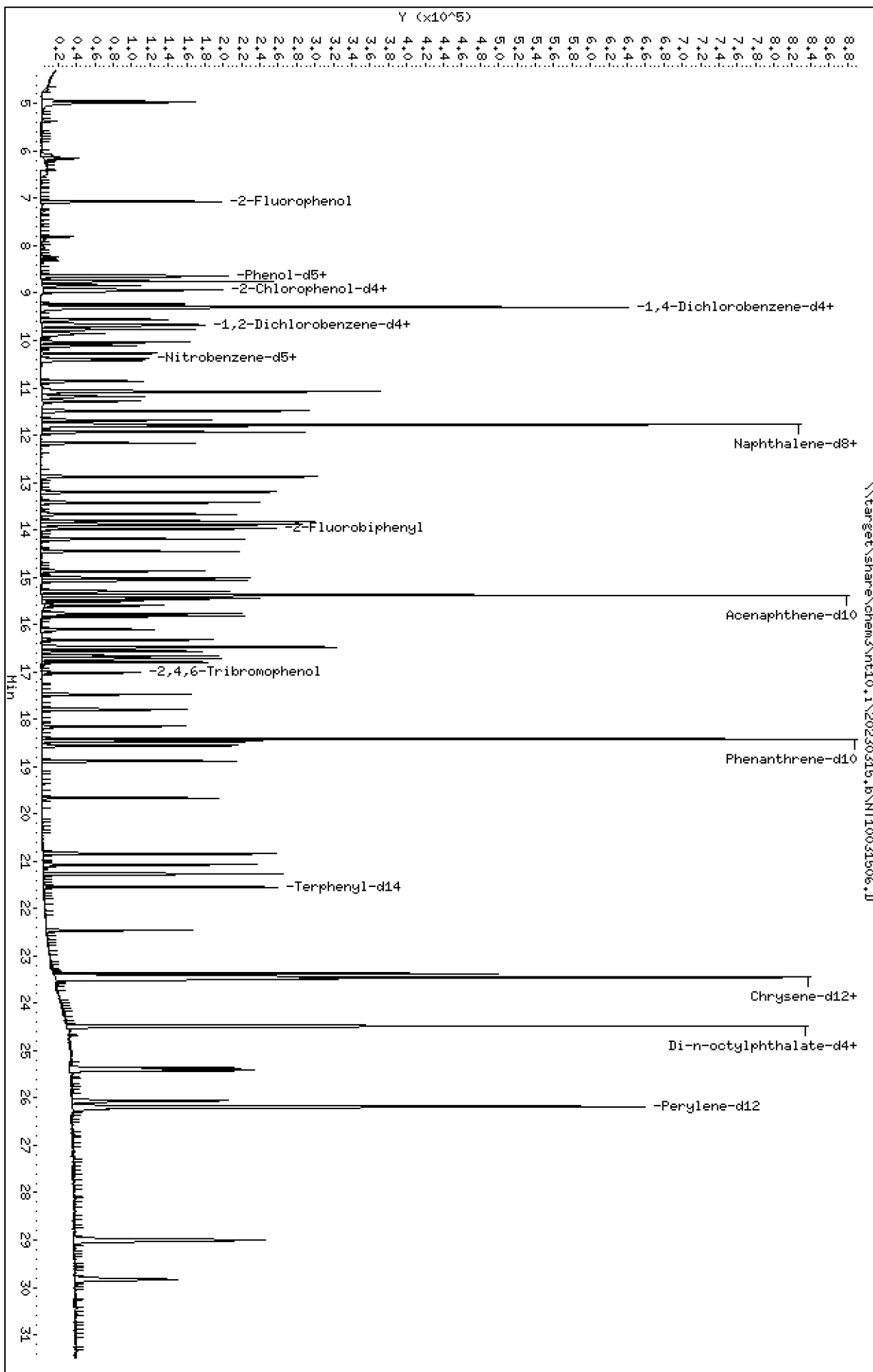
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1





ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031506.D  
 Lab Smp Id: SLC0228-CAL3  
 Inj Date : 15-MAR-2023 23:06  
 Operator : VTS  
 Smp Info : SLC0228-CAL3  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Meth Date : 16-Mar-2023 12:06 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 6  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i  
 Quant Type: ISTD  
 Cal File: NT10031508.D  
 Calibration Sample, Level: 3  
 Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS |           |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
|                                 |       |     |        |        |         |          | CAL-AMT | ON-COL    |
|                                 | MASS  |     |        |        |         |          | (ug/mL) | (ug/mL)   |
| \$ 1 2-Fluorophenol             | 112   |     | 7.067  | 7.068  | (0.761) | 81829    | 1.50000 | 1.571     |
| \$ 2 Phenol-d5                  | 99    |     | 8.636  | 8.636  | (0.929) | 104538   | 1.50000 | 1.530     |
| 3 Phenol                        | 94    |     | 8.651  | 8.652  | (0.931) | 74885    | 1.00000 | 1.055     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.929  | 8.930  | (0.961) | 89430    | 1.50000 | 1.533     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.837  | 8.837  | (0.951) | 54831    | 1.00000 | 1.041     |
| 6 2-Chlorophenol                | 128   |     | 8.960  | 8.961  | (0.964) | 61317    | 1.00000 | 1.009     |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.239  | 9.231  | (0.994) | 66405    | 1.00000 | 1.033     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.293  | 9.293  | (1.000) | 172257   | 4.00000 |           |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.324  | 9.325  | (1.003) | 64857    | 1.00000 | 1.045     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.658  | 9.658  | (1.039) | 44150    | 1.00000 | 1.053     |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.681  | 9.682  | (1.042) | 63657    | 1.00000 | 1.042     |
| 11 Benzyl alcohol               | 108   |     | 9.557  | 9.557  | (1.028) | 33846    | 1.00000 | 1.015     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.860  | 9.860  | (1.061) | 18563    | 1.00000 | 1.035 (M) |
| 13 2-Methylphenol               | 108   |     | 9.767  | 9.767  | (1.051) | 54013    | 1.00000 | 1.043     |
| 17 Hexachloroethane             | 117   |     | 10.271 | 10.271 | (1.105) | 25979    | 1.00000 | 1.020     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 10.108 | 10.108 | (1.088) | 42146    | 1.00000 | 1.031     |
| 15 4-Methylphenol               | 108   |     | 10.031 | 10.031 | (1.079) | 56323    | 1.00000 | 1.033     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.388 | 10.388 | (0.882) | 64177    | 1.00000 | 1.016     |
| 19 Nitrobenzene                 | 77    |     | 10.419 | 10.419 | (0.885) | 64368    | 1.00000 | 1.038     |
| 20 Isophorone                   | 82    |     | 10.861 | 10.861 | (0.922) | 76637    | 1.00000 | 0.9663    |
| 21 2-Nitrophenol                | 139   |     | 11.047 | 11.048 | (0.938) | 24076    | 1.00000 | 0.7981    |
| 22 2,4-Dimethylphenol           | 107   |     | 11.081 | 11.082 | (0.941) | 117551   | 2.00000 | 2.064     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.284 | 11.285 | (0.958) | 55470    | 1.00000 | 1.047     |
| 24 Benzoic acid                 | 105   |     | 11.182 | 11.166 | (0.950) | 66707    | 4.00000 | 2.100 (H) |
| 25 2,4-Dichlorophenol           | 162   |     | 11.488 | 11.489 | (0.975) | 91015    | 2.00000 | 1.997     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.684 | 11.685 | (0.992) | 55650    | 1.00000 | 1.040     |
| * 27 Naphthalene-d8             | 136   |     | 11.777 | 11.770 | (1.000) | 625894   | 4.00000 |           |
| 28 Naphthalene                  | 128   |     | 11.815 | 11.816 | (1.003) | 168411   | 1.00000 | 1.016     |
| 29 4-Chloroaniline              | 127   |     | 11.939 | 11.940 | (1.014) | 131129   | 2.00000 | 2.027     |
| 30 Hexachlorobutadiene          | 225   |     | 12.171 | 12.172 | (1.033) | 32792    | 1.00000 | 1.046     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.875 | 12.876 | (1.093) | 95632    | 2.00000 | 1.939     |
| 32 2-Methylnaphthalene          | 142   |     | 13.200 | 13.201 | (1.121) | 120977   | 1.00000 | 1.011     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.664 | 13.665 | (0.888) | 55248    | 2.00000 | 1.804     |

| Compounds                         | QUANT SIG |        |        |         |          | AMOUNTS            |                   |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 13.819 | 13.820 | (0.898) | 61689    | 2.00000            | 1.886             |
| 35 2,4,5-Trichlorophenol          | 196       | 13.889 | 13.890 | (0.903) | 68648    | 2.00000            | 1.889             |
| § 36 2-Fluorobiphenyl             | 172       | 13.981 | 13.975 | (0.909) | 133800   | 1.00000            | 1.022             |
| 37 2-Chloronaphthalene            | 162       | 14.198 | 14.191 | (0.923) | 107713   | 1.00000            | 1.016             |
| 38 2-Nitroaniline                 | 65        | 14.454 | 14.447 | (0.940) | 56493    | 2.00000            | 1.897             |
| 39 Dimethylphthalate              | 163       | 14.872 | 14.873 | (0.967) | 111361   | 1.00000            | 1.036             |
| 40 Acenaphthylene                 | 152       | 15.073 | 15.066 | (0.980) | 170871   | 1.00000            | 1.034             |
| 41 2,6-Dinitrotoluene             | 165       | 15.019 | 15.012 | (0.976) | 44313    | 2.00000            | 1.908             |
| * 42 Acenaphthene-d10             | 164       | 15.382 | 15.383 | (1.000) | 330997   | 4.00000            |                   |
| 43 3-Nitroaniline                 | 138       | 15.297 | 15.298 | (0.994) | 50298    | 2.00000            | 1.918             |
| 44 Acenaphthene                   | 153       | 15.452 | 15.445 | (1.005) | 103833   | 1.00000            | 1.017             |
| 45 2,4-Dinitrophenol              | 184       | 15.514 | 15.515 | (1.009) | 25006    | 4.00000            | 1.778             |
| 46 Dibenzofuran                   | 168       | 15.769 | 15.770 | (1.025) | 152427   | 1.00000            | 1.013             |
| 47 4-Nitrophenol                  | 109       | 15.599 | 15.592 | (1.014) | 26972    | 2.00000            | 1.637             |
| 48 2,4-Dinitrotoluene             | 165       | 15.823 | 15.817 | (1.029) | 61485    | 2.00000            | 1.754             |
| 50 Diethylphthalate               | 149       | 16.325 | 16.319 | (1.061) | 107688   | 1.00000            | 1.021             |
| 49 Fluorene                       | 166       | 16.488 | 16.481 | (1.072) | 122197   | 1.00000            | 1.032             |
| 51 4-Chlorophenyl-phenylether     | 204       | 16.472 | 16.466 | (1.071) | 56790    | 1.00000            | 1.009             |
| 52 4-Nitroaniline                 | 138       | 16.565 | 16.566 | (1.077) | 46355    | 2.00000            | 1.962             |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 16.657 | 16.658 | (0.904) | 45458    | 4.00000            | 2.638             |
| 54 N-Nitrosodiphenylamine         | 169       | 16.719 | 16.712 | (0.908) | 78992    | 1.00000            | 1.039             |
| § 55 2,4,6-Tribromophenol         | 330       | 17.020 | 17.021 | (1.106) | 18793    | 1.50000            | 1.208             |
| 56 4-Bromophenyl-phenylether      | 248       | 17.475 | 17.476 | (0.949) | 32247    | 1.00000            | 1.014             |
| 57 Hexachlorobenzene              | 284       | 17.799 | 17.793 | (0.966) | 35208    | 1.00000            | 1.056             |
| 58 Pentachlorophenol              | 266       | 18.148 | 18.149 | (0.985) | 28829    | 2.00000            | 1.458             |
| * 59 Phenanthrene-d10             | 188       | 18.419 | 18.420 | (1.000) | 568685   | 4.00000            |                   |
| 60 Phenanthrene                   | 178       | 18.465 | 18.466 | (1.003) | 159357   | 1.00000            | 1.028             |
| 61 Anthracene                     | 178       | 18.558 | 18.559 | (1.008) | 151450   | 1.00000            | 1.018             |
| 62 Carbazole                      | 167       | 18.883 | 18.884 | (1.025) | 141694   | 1.00000            | 1.063             |
| 63 Di-n-butylphthalate            | 149       | 19.664 | 19.666 | (1.068) | 154356   | 1.00000            | 0.8619            |
| 64 Fluoranthene                   | 202       | 20.840 | 20.841 | (0.889) | 166676   | 1.00000            | 0.9718            |
| 65 Pyrene                         | 202       | 21.266 | 21.267 | (0.907) | 174023   | 1.00000            | 0.9891            |
| § 66 Terphenyl-d14                | 244       | 21.544 | 21.538 | (0.919) | 135363   | 1.00000            | 1.024             |
| 67 Butylbenzylphthalate           | 149       | 22.458 | 22.460 | (0.958) | 51900    | 1.00000            | 0.8366            |
| 68 Benzo(a)anthracene             | 228       | 23.418 | 23.419 | (0.999) | 152617   | 1.00000            | 1.013             |
| * 69 Chrysene-d12                 | 240       | 23.449 | 23.450 | (1.000) | 426836   | 4.00000            |                   |
| 70 3,3'-Dichlorobenzidine         | 252       | 23.372 | 23.373 | (0.997) | 145183   | 3.00000            | 3.008             |
| 71 Chrysene                       | 228       | 23.496 | 23.489 | (1.002) | 149535   | 1.00000            | 1.016             |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 23.480 | 23.474 | (0.959) | 73435    | 1.00000            | 0.9036            |
| * 134 Di-n-octylphthalate-d4      | 153       | 24.479 | 24.480 | (1.000) | 555437   | 4.00000            |                   |
| 73 Di-n-octylphthalate            | 149       | 24.487 | 24.488 | (1.000) | 146103   | 1.00000            | 1.005             |
| 74 Benzo(b)fluoranthene           | 252       | 25.369 | 25.362 | (0.969) | 155706   | 1.00000            | 0.9821 (H)        |
| 75 Benzo(k)fluoranthene           | 252       | 25.416 | 25.409 | (0.971) | 162831   | 1.00000            | 1.011             |
| 76 Benzo(a)pyrene                 | 252       | 26.058 | 26.052 | (0.995) | 137233   | 1.00000            | 0.9682            |
| * 77 Perylene-d12                 | 264       | 26.182 | 26.183 | (1.000) | 489106   | 4.00000            |                   |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 29.004 | 28.990 | (1.108) | 172403   | 1.00000            | 0.9560            |
| 79 Dibenzo(a,h)anthracene         | 278       | 29.012 | 29.005 | (1.108) | 143905   | 1.00000            | 0.9612            |
| 80 Benzo(g,h,i)perylene           | 276       | 29.835 | 29.821 | (1.140) | 146972   | 1.00000            | 0.9417            |
| 90 N-Nitrosodimethylamine         | 74        | 4.935  | 4.936  | (0.531) | 69420    | 2.00000            | 2.089             |
| 91 Aniline                        | 93        | 8.752  | 8.752  | (0.942) | 149023   | 2.00000            | 2.048             |
| 93 Benzidine                      | 184       | 21.072 | 21.066 | (0.899) | 143586   | 2.00000            | 2.038             |
| 103 Pyridine                      | 79        | 4.974  | 4.997  | (0.535) | 109408   | 2.00000            | 2.144             |
| 105 1-methylnaphthalene           | 142       | 13.432 | 13.425 | (1.141) | 111144   | 1.00000            | 1.014             |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 16.796 | 16.789 | (1.092) | 118247   | 1.00000            | 1.003             |

| Compounds                     | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                               | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| =====                         | =====     |  | =====  | =====  | =====   | =====    | =====              | =====             |
| 187 Total Benzofluoranthenes  | 252       |  | 25.416 | 25.409 | (0.971) | 306444   | 2.00000            | 2.002             |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 16.109 | 16.103 | (1.047) | 26430    | 1.00000            | 0.7900            |

QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023  
 Lab File ID: NT10031506.D Calibration Time: 21:50  
 Lab Smp Id: SLC0228-CAL3  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 171542   | 85771      | 343084  | 172257 | 0.42  |
| 27 Naphthalene-d8     | 624466   | 312233     | 1248932 | 625894 | 0.23  |
| 42 Acenaphthene-d10   | 337226   | 168613     | 674452  | 330997 | -1.85 |
| 59 Phenanthrene-d10   | 572849   | 286425     | 1145698 | 568685 | -0.73 |
| 69 Chrysene-d12       | 347068   | 173534     | 694136  | 426836 | 22.98 |
| 134 Di-n-octylphthala | 500317   | 250159     | 1000634 | 555437 | 11.02 |
| 77 Perylene-d12       | 421549   | 210775     | 843098  | 489106 | 16.03 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.30     | 8.80     | 9.80  | 9.29   | -0.09 |
| 27 Naphthalene-d8     | 11.78    | 11.28    | 12.28 | 11.78  | -0.00 |
| 42 Acenaphthene-d10   | 15.38    | 14.88    | 15.88 | 15.38  | -0.00 |
| 59 Phenanthrene-d10   | 18.42    | 17.92    | 18.92 | 18.42  | -0.00 |
| 69 Chrysene-d12       | 23.45    | 22.95    | 23.95 | 23.45  | -0.00 |
| 134 Di-n-octylphthala | 24.48    | 23.98    | 24.98 | 24.48  | -0.00 |
| 77 Perylene-d12       | 26.18    | 25.68    | 26.68 | 26.18  | -0.00 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT10031506.D

Lab ID: SLC0228-CAL3  
nt10.i, 20230315.b\ABN.m, 15-MAR-2023 23:06

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND     |
|-------|---------|--------|--------------|
| 0.950 | 0.000   | 0.9496 | Benzoic acid |

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

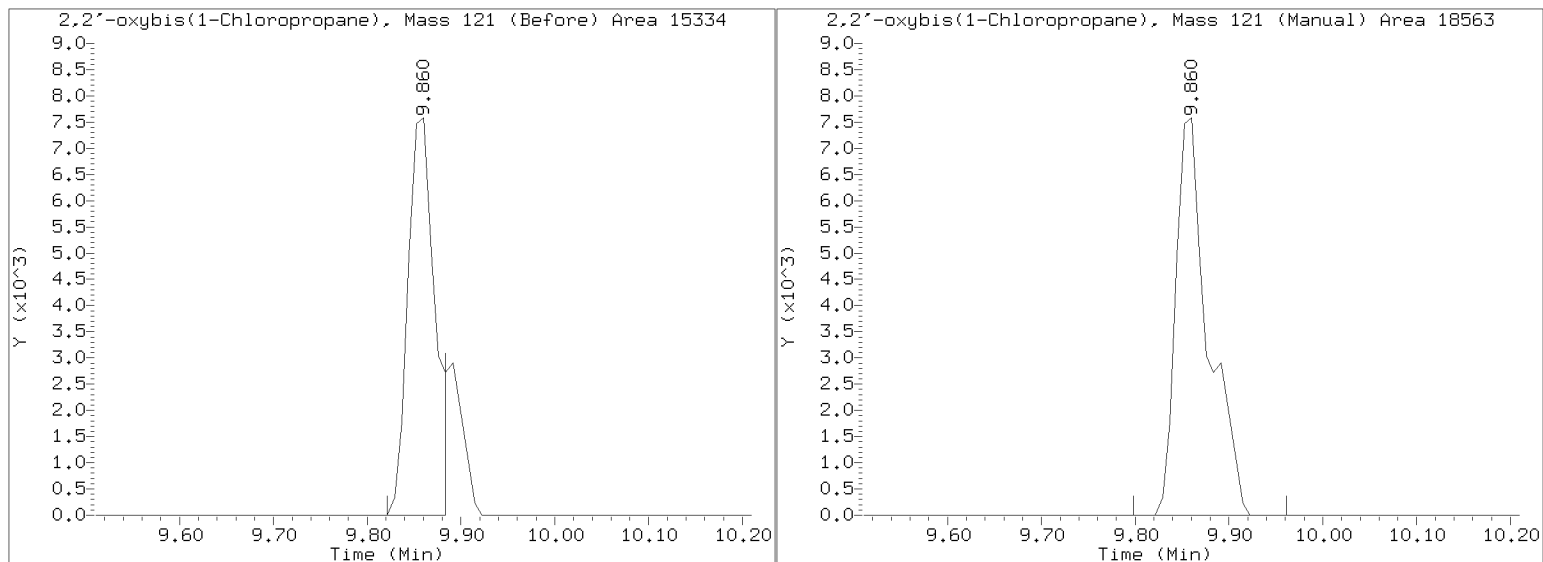
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/NT10031506.D

Injection Date: 15-MAR-2023 23:06

Lab ID: SLC0228-CAL3 Client ID:

Report Date: 03/16/2023 12:20



Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031507.D

Date: 15-MAR-2023 23:44

Client ID:

Sample Info: SLC0228-CAL2

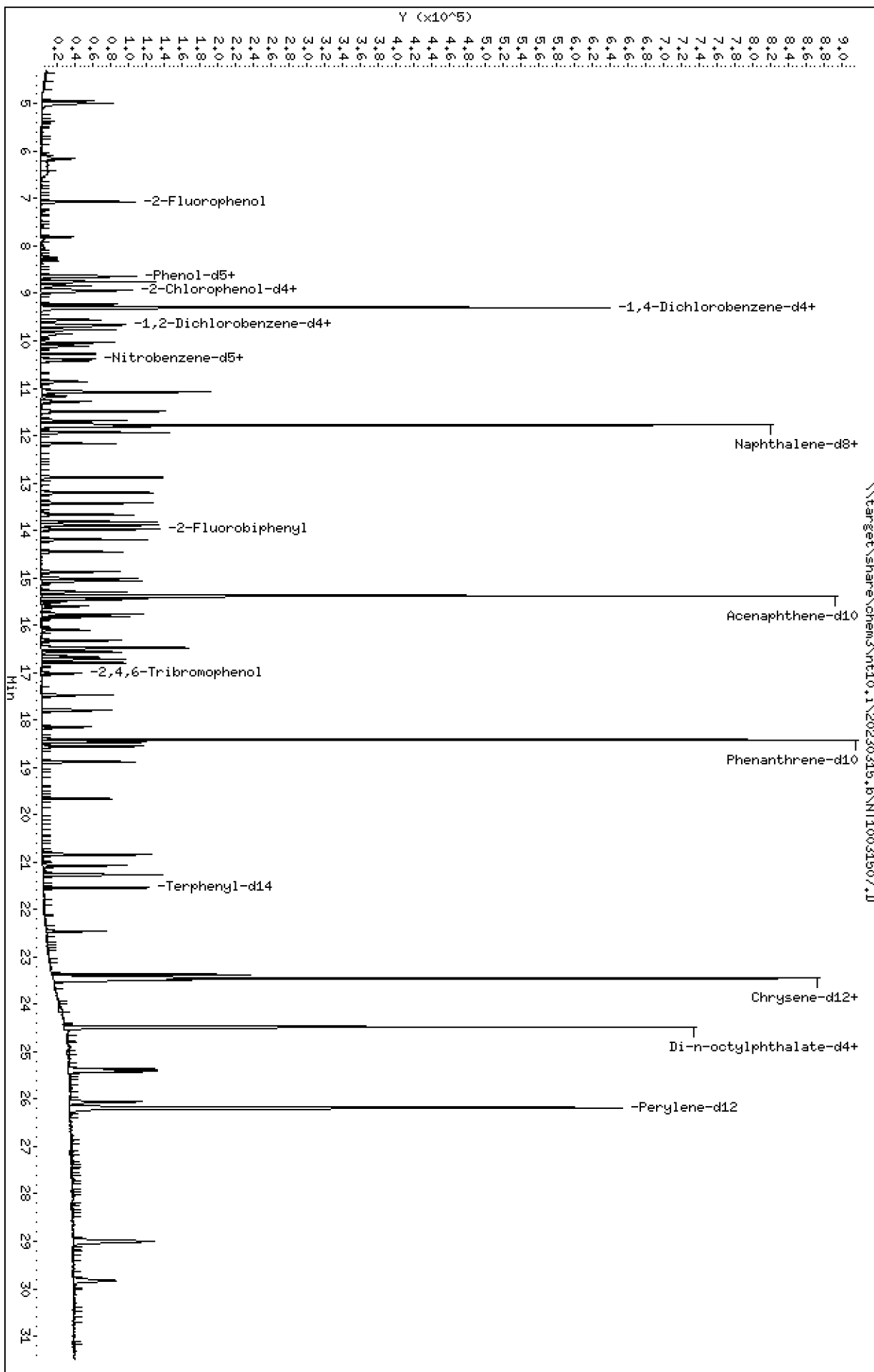
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031507.D  
 Lab Smp Id: SLC0228-CAL2  
 Inj Date : 15-MAR-2023 23:44  
 Operator : VTS  
 Smp Info : SLC0228-CAL2  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Meth Date : 16-Mar-2023 12:06 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i  
 Quant Type: ISTD  
 Cal File: NT10031508.D  
 Calibration Sample, Level: 2  
 Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS |             |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-------------|
|                                 |       |     |        |        |         |          | CAL-AMT | ON-COL      |
|                                 | MASS  |     |        |        |         |          | (ug/mL) | (ug/mL)     |
| \$ 1 2-Fluorophenol             | 112   |     | 7.068  | 7.068  | (0.760) | 41713    | 0.75000 | 0.7823      |
| \$ 2 Phenol-d5                  | 99    |     | 8.636  | 8.636  | (0.928) | 52580    | 0.75000 | 0.7517      |
| 3 Phenol                        | 94    |     | 8.659  | 8.652  | (0.931) | 38448    | 0.50000 | 0.5289      |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.930  | 8.930  | (0.960) | 44808    | 0.75000 | 0.7501      |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.837  | 8.837  | (0.950) | 27479    | 0.50000 | 0.5097      |
| 6 2-Chlorophenol                | 128   |     | 8.960  | 8.961  | (0.963) | 31239    | 0.50000 | 0.5021      |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.231  | 9.231  | (0.992) | 35392    | 0.50000 | 0.5381      |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.301  | 9.293  | (1.000) | 176328   | 4.00000 |             |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.332  | 9.325  | (1.003) | 32578    | 0.50000 | 0.5127      |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.658  | 9.658  | (1.038) | 21602    | 0.50000 | 0.5036      |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.681  | 9.682  | (1.041) | 32678    | 0.50000 | 0.5226      |
| 11 Benzyl alcohol               | 108   |     | 9.557  | 9.557  | (1.028) | 16132    | 0.50000 | 0.4728      |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.852  | 9.860  | (1.059) | 9403     | 0.50000 | 0.5120 (M)  |
| 13 2-Methylphenol               | 108   |     | 9.767  | 9.767  | (1.050) | 26839    | 0.50000 | 0.5065      |
| 17 Hexachloroethane             | 117   |     | 10.271 | 10.271 | (1.104) | 13005    | 0.50000 | 0.4989      |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 10.116 | 10.108 | (1.088) | 20902    | 0.50000 | 0.4996      |
| 15 4-Methylphenol               | 108   |     | 10.031 | 10.031 | (1.078) | 27419    | 0.50000 | 0.4911      |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.388 | 10.388 | (0.882) | 31837    | 0.50000 | 0.4937      |
| 19 Nitrobenzene                 | 77    |     | 10.419 | 10.419 | (0.885) | 32321    | 0.50000 | 0.5108      |
| 20 Isophorone                   | 82    |     | 10.861 | 10.861 | (0.922) | 37232    | 0.50000 | 0.4599      |
| 21 2-Nitrophenol                | 139   |     | 11.047 | 11.048 | (0.938) | 10858    | 0.50000 | 0.3528      |
| 22 2,4-Dimethylphenol           | 107   |     | 11.081 | 11.082 | (0.941) | 60037    | 1.00000 | 1.033       |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.284 | 11.285 | (0.958) | 28288    | 0.50000 | 0.5231      |
| 24 Benzoic acid                 | 105   |     | 11.166 | 11.166 | (0.948) | 22417    | 2.00000 | 0.6937 (MH) |
| 25 2,4-Dichlorophenol           | 162   |     | 11.488 | 11.489 | (0.975) | 44450    | 1.00000 | 0.9557      |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.684 | 11.685 | (0.992) | 28877    | 0.50000 | 0.5289      |
| * 27 Naphthalene-d8             | 136   |     | 11.777 | 11.770 | (1.000) | 638835   | 4.00000 |             |
| 28 Naphthalene                  | 128   |     | 11.815 | 11.816 | (1.003) | 87181    | 0.50000 | 0.5151      |
| 29 4-Chloroaniline              | 127   |     | 11.939 | 11.940 | (1.014) | 66172    | 1.00000 | 1.002       |
| 30 Hexachlorobutadiene          | 225   |     | 12.171 | 12.172 | (1.033) | 16273    | 0.50000 | 0.5087      |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.883 | 12.876 | (1.094) | 47168    | 1.00000 | 0.9368      |
| 32 2-Methylnaphthalene          | 142   |     | 13.208 | 13.201 | (1.122) | 61248    | 0.50000 | 0.5015      |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.672 | 13.665 | (0.889) | 26827    | 1.00000 | 0.8689      |



| Compounds                         | QUANT SIG |        |        |         |          | AMOUNTS            |                   |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 13.819 | 13.820 | (0.898) | 28405    | 1.00000            | 0.8614            |
| 35 2,4,5-Trichlorophenol          | 196       | 13.889 | 13.890 | (0.903) | 32893    | 1.00000            | 0.8978            |
| § 36 2-Fluorobiphenyl             | 172       | 13.982 | 13.975 | (0.909) | 68004    | 0.50000            | 0.5153            |
| 37 2-Chloronaphthalene            | 162       | 14.198 | 14.191 | (0.923) | 55073    | 0.50000            | 0.5154            |
| 38 2-Nitroaniline                 | 65        | 14.446 | 14.447 | (0.939) | 26440    | 1.00000            | 0.8809            |
| 39 Dimethylphthalate              | 163       | 14.879 | 14.873 | (0.967) | 57101    | 0.50000            | 0.5269            |
| 40 Acenaphthylene                 | 152       | 15.065 | 15.066 | (0.979) | 86568    | 0.50000            | 0.5199            |
| 41 2,6-Dinitrotoluene             | 165       | 15.019 | 15.012 | (0.976) | 20170    | 1.00000            | 0.8615            |
| * 42 Acenaphthene-d10             | 164       | 15.382 | 15.383 | (1.000) | 333617   | 4.00000            |                   |
| 43 3-Nitroaniline                 | 138       | 15.297 | 15.298 | (0.994) | 23424    | 1.00000            | 0.8864            |
| 44 Acenaphthene                   | 153       | 15.452 | 15.445 | (1.005) | 52615    | 0.50000            | 0.5115            |
| 45 2,4-Dinitrophenol              | 184       | 15.514 | 15.515 | (1.009) | 6815     | 2.00000            | 0.4819            |
| 46 Dibenzofuran                   | 168       | 15.769 | 15.770 | (1.025) | 78914    | 0.50000            | 0.5202            |
| 47 4-Nitrophenol                  | 109       | 15.599 | 15.592 | (1.014) | 10811    | 1.00000            | 0.6506            |
| 48 2,4-Dinitrotoluene             | 165       | 15.823 | 15.817 | (1.029) | 27229    | 1.00000            | 0.7695            |
| 50 Diethylphthalate               | 149       | 16.326 | 16.319 | (1.061) | 52123    | 0.50000            | 0.4902            |
| 49 Fluorene                       | 166       | 16.488 | 16.481 | (1.072) | 60511    | 0.50000            | 0.5070            |
| 51 4-Chlorophenyl-phenylether     | 204       | 16.472 | 16.466 | (1.071) | 28771    | 0.50000            | 0.5070            |
| 52 4-Nitroaniline                 | 138       | 16.565 | 16.566 | (1.077) | 22911    | 1.00000            | 0.9621            |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 16.665 | 16.658 | (0.905) | 16474    | 2.00000            | 0.9166            |
| 54 N-Nitrosodiphenylamine         | 169       | 16.719 | 16.712 | (0.908) | 40999    | 0.50000            | 0.5160            |
| § 55 2,4,6-Tribromophenol         | 330       | 17.020 | 17.021 | (1.106) | 8451     | 0.75000            | 0.5386            |
| 56 4-Bromophenyl-phenylether      | 248       | 17.475 | 17.476 | (0.949) | 15854    | 0.50000            | 0.4770            |
| 57 Hexachlorobenzene              | 284       | 17.792 | 17.793 | (0.966) | 17123    | 0.50000            | 0.4914            |
| 58 Pentachlorophenol              | 266       | 18.148 | 18.149 | (0.985) | 11460    | 1.00000            | 0.5555            |
| * 59 Phenanthrene-d10             | 188       | 18.419 | 18.420 | (1.000) | 594262   | 4.00000            |                   |
| 60 Phenanthrene                   | 178       | 18.465 | 18.466 | (1.003) | 82180    | 0.50000            | 0.5072            |
| 61 Anthracene                     | 178       | 18.558 | 18.559 | (1.008) | 75192    | 0.50000            | 0.4837            |
| 62 Carbazole                      | 167       | 18.883 | 18.884 | (1.025) | 70986    | 0.50000            | 0.5096            |
| 63 Di-n-butylphthalate            | 149       | 19.664 | 19.666 | (1.068) | 69653    | 0.50000            | 0.3720            |
| 64 Fluoranthene                   | 202       | 20.840 | 20.841 | (0.889) | 81400    | 0.50000            | 0.4730            |
| 65 Pyrene                         | 202       | 21.266 | 21.267 | (0.907) | 86158    | 0.50000            | 0.4881            |
| § 66 Terphenyl-d14                | 244       | 21.545 | 21.538 | (0.919) | 66564    | 0.50000            | 0.5021            |
| 67 Butylbenzylphthalate           | 149       | 22.458 | 22.460 | (0.958) | 23199    | 0.50000            | 0.3738            |
| 68 Benzo(a)anthracene             | 228       | 23.426 | 23.419 | (0.999) | 76435    | 0.50000            | 0.5056            |
| * 69 Chrysene-d12                 | 240       | 23.449 | 23.450 | (1.000) | 428263   | 4.00000            |                   |
| 70 3,3'-Dichlorobenzidine         | 252       | 23.372 | 23.373 | (0.997) | 66937    | 1.50000            | 1.382             |
| 71 Chrysene                       | 228       | 23.496 | 23.489 | (1.002) | 76545    | 0.50000            | 0.5183            |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 23.480 | 23.474 | (0.959) | 29596    | 0.50000            | 0.3811            |
| * 134 Di-n-octylphthalate-d4      | 153       | 24.479 | 24.480 | (1.000) | 530893   | 4.00000            |                   |
| 73 Di-n-octylphthalate            | 149       | 24.487 | 24.488 | (1.000) | 70499    | 0.50000            | 0.5074            |
| 74 Benzo(b)fluoranthene           | 252       | 25.369 | 25.362 | (0.969) | 77837    | 0.50000            | 0.5012 (H)        |
| 75 Benzo(k)fluoranthene           | 252       | 25.408 | 25.409 | (0.970) | 76548    | 0.50000            | 0.4854            |
| 76 Benzo(a)pyrene                 | 252       | 26.059 | 26.052 | (0.995) | 65959    | 0.50000            | 0.4750            |
| * 77 Perylene-d12                 | 264       | 26.182 | 26.183 | (1.000) | 479116   | 4.00000            |                   |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 28.997 | 28.990 | (1.107) | 79229    | 0.50000            | 0.4485            |
| 79 Dibenzo(a,h)anthracene         | 278       | 29.012 | 29.005 | (1.108) | 66422    | 0.50000            | 0.4529            |
| 80 Benzo(g,h,i)perylene           | 276       | 29.828 | 29.821 | (1.139) | 67819    | 0.50000            | 0.4436            |
| 90 N-Nitrosodimethylamine         | 74        | 4.936  | 4.936  | (0.531) | 37892    | 1.00000            | 1.114             |
| 91 Aniline                        | 93        | 8.752  | 8.752  | (0.941) | 78232    | 1.00000            | 1.050             |
| 93 Benzidine                      | 184       | 21.073 | 21.066 | (0.899) | 63059    | 1.00000            | 0.8921            |
| 103 Pyridine                      | 79        | 4.982  | 4.997  | (0.536) | 58765    | 1.00000            | 1.125             |
| 105 1-methylnaphthalene           | 142       | 13.424 | 13.425 | (1.140) | 56774    | 0.50000            | 0.5074            |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 16.796 | 16.789 | (1.092) | 61206    | 0.50000            | 0.5153            |

| Compounds                     | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                               | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       |  | 25.408 | 25.409 | (0.970) | 149145   | 1.00000            | 0.9946            |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 16.101 | 16.103 | (1.047) | 11604    | 0.50000            | 0.3451            |

QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023  
 Lab File ID: NT10031507.D Calibration Time: 21:50  
 Lab Smp Id: SLC0228-CAL2  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 171542   | 85771      | 343084  | 176328 | 2.79  |
| 27 Naphthalene-d8     | 624466   | 312233     | 1248932 | 638835 | 2.30  |
| 42 Acenaphthene-d10   | 337226   | 168613     | 674452  | 333617 | -1.07 |
| 59 Phenanthrene-d10   | 572849   | 286425     | 1145698 | 594262 | 3.74  |
| 69 Chrysene-d12       | 347068   | 173534     | 694136  | 428263 | 23.39 |
| 134 Di-n-octylphthala | 500317   | 250159     | 1000634 | 530893 | 6.11  |
| 77 Perylene-d12       | 421549   | 210775     | 843098  | 479116 | 13.66 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.30     | 8.80     | 9.80  | 9.30   | 0.00  |
| 27 Naphthalene-d8     | 11.78    | 11.28    | 12.28 | 11.78  | 0.00  |
| 42 Acenaphthene-d10   | 15.38    | 14.88    | 15.88 | 15.38  | 0.00  |
| 59 Phenanthrene-d10   | 18.42    | 17.92    | 18.92 | 18.42  | 0.00  |
| 69 Chrysene-d12       | 23.45    | 22.95    | 23.95 | 23.45  | 0.00  |
| 134 Di-n-octylphthala | 24.48    | 23.98    | 24.98 | 24.48  | 0.00  |
| 77 Perylene-d12       | 26.18    | 25.68    | 26.68 | 26.18  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT10031507.D

Lab ID: SLC0228-CAL2  
nt10.i, 20230315.b\ABN.m, 15-MAR-2023 23:44

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND     |
|-------|---------|--------|--------------|
| 0.948 | 0.000   | 0.9481 | Benzoic acid |

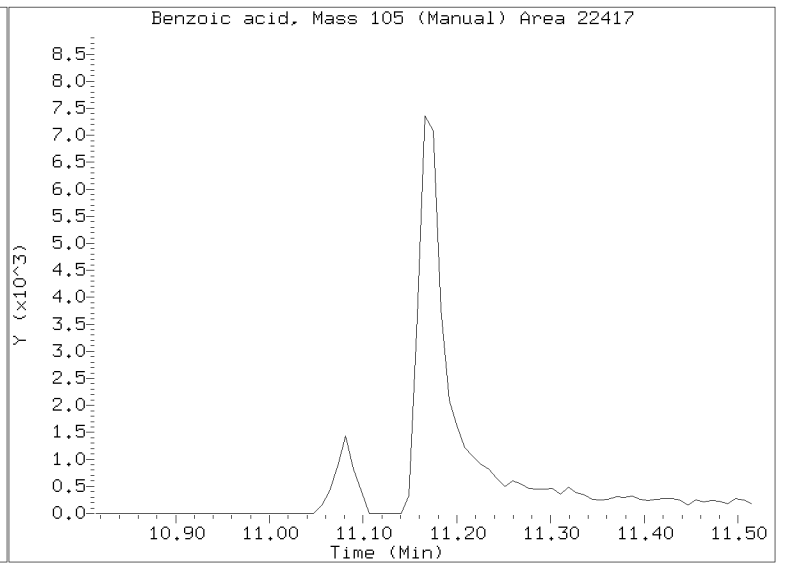
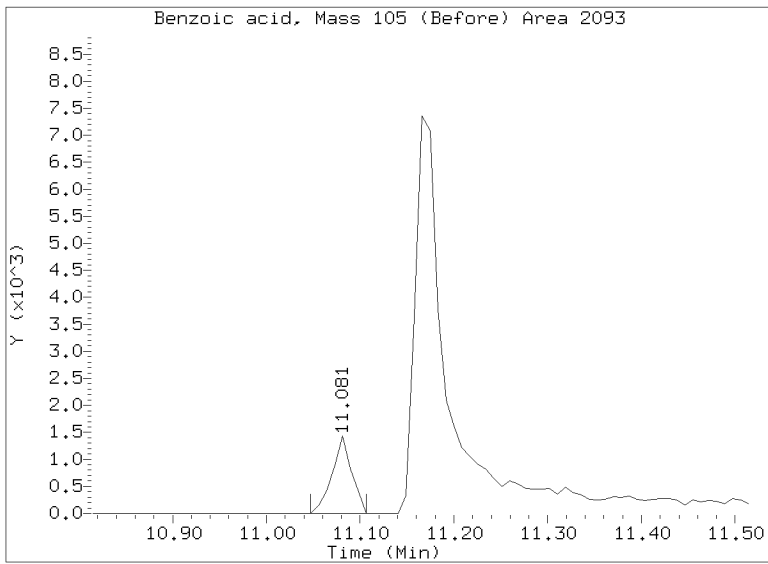
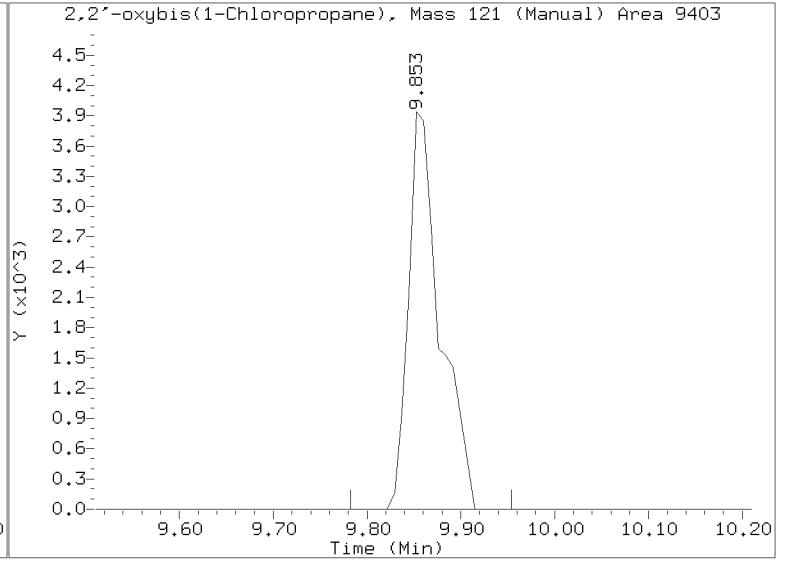
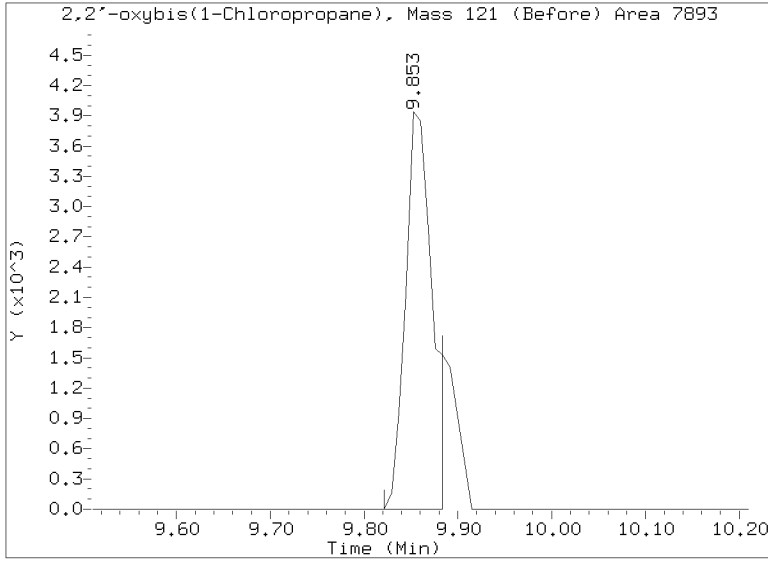
RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/NT10031507.D  
Injection Date: 15-MAR-2023 23:44  
Lab ID:SLC0228-CAL2 Client ID:  
Report Date: 03/16/2023 12:20



Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031508.D

Date: 16-MAR-2023 00:22

Client ID:

Sample Info: SLC0228-CAL1

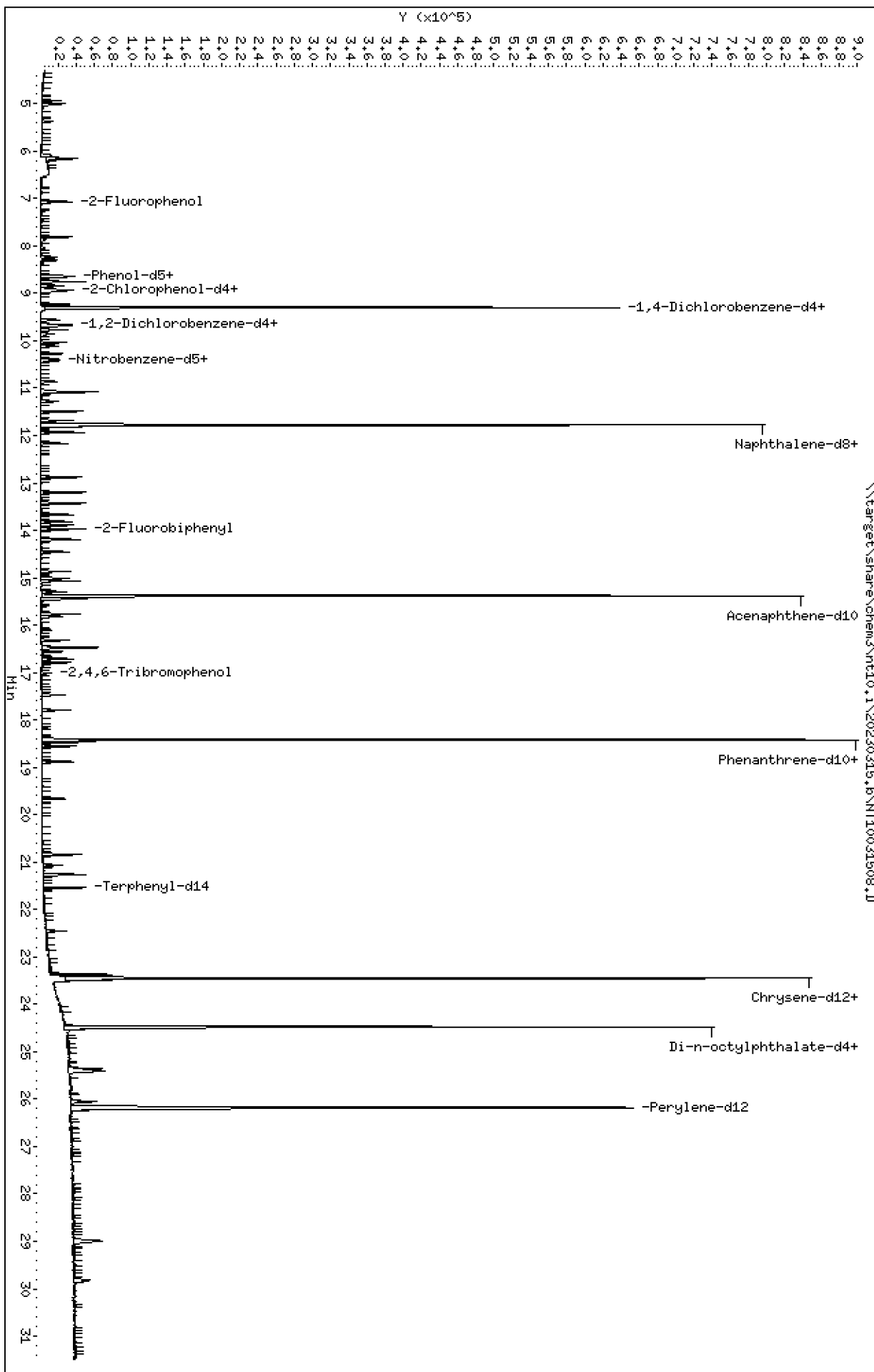
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031508.D  
 Lab Smp Id: SLC0228-CAL1  
 Inj Date : 16-MAR-2023 00:22  
 Operator : VTS Inst ID: nt10.i  
 Smp Info : SLC0228-CAL1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD  
 Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D  
 Als bottle: 8 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | AMOUNTS |            |  |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|---------|------------|--|
|                                 |       |     |                        |        |         |          | CAL-AMT | ON-COL     |  |
|                                 | MASS  |     |                        |        |         |          | (ug/mL) | (ug/mL)    |  |
| \$ 1 2-Fluorophenol             | 112   |     | 7.068                  | 7.068  | (0.761) | 15217    | 0.30000 | 0.2902     |  |
| \$ 2 Phenol-d5                  | 99    |     | 8.636                  | 8.636  | (0.929) | 19316    | 0.30000 | 0.2808     |  |
| 3 Phenol                        | 94    |     | 8.652                  | 8.652  | (0.931) | 14062    | 0.20000 | 0.1967     |  |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.930                  | 8.930  | (0.961) | 16402    | 0.30000 | 0.2792     |  |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.837                  | 8.837  | (0.951) | 11069    | 0.20000 | 0.2088     |  |
| 6 2-Chlorophenol                | 128   |     | 8.961                  | 8.961  | (0.964) | 11429    | 0.20000 | 0.1868     |  |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.231                  | 9.231  | (0.993) | 13532    | 0.20000 | 0.2092     |  |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.293                  | 9.293  | (1.000) | 173382   | 4.00000 |            |  |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.325                  | 9.325  | (1.003) | 12851    | 0.20000 | 0.2057     |  |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.658                  | 9.658  | (1.039) | 8167     | 0.20000 | 0.1936 (M) |  |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.682                  | 9.682  | (1.042) | 12650    | 0.20000 | 0.2057     |  |
| 11 Benzyl alcohol               | 108   |     | 9.557                  | 9.557  | (1.028) | 5351     | 0.20000 | 0.1595     |  |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.860                  | 9.860  | (1.061) | 3773     | 0.20000 | 0.2090 (M) |  |
| 13 2-Methylphenol               | 108   |     | 9.767                  | 9.767  | (1.051) | 9529     | 0.20000 | 0.1829     |  |
| 17 Hexachloroethane             | 117   |     | 10.271                 | 10.271 | (1.105) | 5030     | 0.20000 | 0.1962     |  |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 10.108                 | 10.108 | (1.088) | 7690     | 0.20000 | 0.1869     |  |
| 15 4-Methylphenol               | 108   |     | 10.031                 | 10.031 | (1.079) | 9916     | 0.20000 | 0.1806     |  |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.388                 | 10.388 | (0.883) | 11367    | 0.20000 | 0.1808     |  |
| 19 Nitrobenzene                 | 77    |     | 10.419                 | 10.419 | (0.885) | 11856    | 0.20000 | 0.1922     |  |
| 20 Isophorone                   | 82    |     | 10.861                 | 10.861 | (0.923) | 13500    | 0.20000 | 0.1711     |  |
| 21 2-Nitrophenol                | 139   |     | 11.048                 | 11.048 | (0.939) | 3314     | 0.20000 | 0.1105     |  |
| 22 2,4-Dimethylphenol           | 107   |     | 11.082                 | 11.082 | (0.942) | 21781    | 0.40000 | 0.3844     |  |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.285                 | 11.285 | (0.959) | 10633    | 0.20000 | 0.2017     |  |
| 24 Benzoic acid                 | 105   |     | Compound Not Detected. |        |         |          |         |            |  |
| 25 2,4-Dichlorophenol           | 162   |     | 11.489                 | 11.489 | (0.976) | 14498    | 0.40000 | 0.3198     |  |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.685                 | 11.685 | (0.993) | 11312    | 0.20000 | 0.2125     |  |
| * 27 Naphthalene-d8             | 136   |     | 11.770                 | 11.770 | (1.000) | 622719   | 4.00000 |            |  |
| 28 Naphthalene                  | 128   |     | 11.816                 | 11.816 | (1.004) | 34693    | 0.20000 | 0.2103     |  |
| 29 4-Chloroaniline              | 127   |     | 11.940                 | 11.940 | (1.014) | 23161    | 0.40000 | 0.3599     |  |
| 30 Hexachlorobutadiene          | 225   |     | 12.172                 | 12.172 | (1.034) | 6358     | 0.20000 | 0.2039     |  |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.876                 | 12.876 | (1.094) | 15112    | 0.40000 | 0.3079     |  |
| 32 2-Methylnaphthalene          | 142   |     | 13.201                 | 13.201 | (1.122) | 23564    | 0.20000 | 0.1979     |  |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.665                 | 13.665 | (0.888) | 8871     | 0.40000 | 0.2963     |  |

| Compounds                         | QUANT SIG |        |        | AMOUNTS |          |                    |                   |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 13.820 | 13.820 | (0.898) | 8113     | 0.40000            | 0.2538            |
| 35 2,4,5-Trichlorophenol          | 196       | 13.890 | 13.890 | (0.903) | 10952    | 0.40000            | 0.3083            |
| § 36 2-Fluorobiphenyl             | 172       | 13.975 | 13.975 | (0.908) | 26256    | 0.20000            | 0.2052            |
| 37 2-Chloronaphthalene            | 162       | 14.191 | 14.191 | (0.923) | 21320    | 0.20000            | 0.2058            |
| 38 2-Nitroaniline                 | 65        | 14.447 | 14.447 | (0.939) | 7997     | 0.40000            | 0.2748            |
| 39 Dimethylphthalate              | 163       | 14.873 | 14.873 | (0.967) | 21402    | 0.20000            | 0.2037            |
| 40 Acenaphthylene                 | 152       | 15.066 | 15.066 | (0.979) | 30956    | 0.20000            | 0.1918            |
| 41 2,6-Dinitrotoluene             | 165       | 15.012 | 15.012 | (0.976) | 6371     | 0.40000            | 0.2807            |
| * 42 Acenaphthene-d10             | 164       | 15.383 | 15.383 | (1.000) | 323444   | 4.00000            |                   |
| 43 3-Nitroaniline                 | 138       | 15.298 | 15.298 | (0.994) | 6696     | 0.40000            | 0.2614            |
| 44 Acenaphthene                   | 153       | 15.445 | 15.445 | (1.004) | 20741    | 0.20000            | 0.2080            |
| 45 2,4-Dinitrophenol              | 184       | 15.515 | 15.515 | (1.009) | 447      | 0.80000            | 0.03263           |
| 46 Dibenzofuran                   | 168       | 15.770 | 15.770 | (1.025) | 29705    | 0.20000            | 0.2020            |
| 47 4-Nitrophenol                  | 109       | 15.592 | 15.592 | (1.014) | 2336     | 0.40000            | 0.1450            |
| 48 2,4-Dinitrotoluene             | 165       | 15.816 | 15.817 | (1.028) | 7302     | 0.40000            | 0.2127            |
| 50 Diethylphthalate               | 149       | 16.319 | 16.319 | (1.061) | 19430    | 0.20000            | 0.1885            |
| 49 Fluorene                       | 166       | 16.481 | 16.481 | (1.071) | 22739    | 0.20000            | 0.1965            |
| 51 4-Chlorophenyl-phenylether     | 204       | 16.466 | 16.466 | (1.070) | 11288    | 0.20000            | 0.2052            |
| 52 4-Nitroaniline                 | 138       | 16.566 | 16.566 | (1.077) | 6775     | 0.40000            | 0.2934            |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 16.658 | 16.658 | (0.904) | 3116     | 0.80000            | 0.1772            |
| 54 N-Nitrosodiphenylamine         | 169       | 16.712 | 16.712 | (0.907) | 15391    | 0.20000            | 0.1978            |
| § 55 2,4,6-Tribromophenol         | 330       | 17.021 | 17.021 | (1.106) | 2409     | 0.30000            | 0.1583            |
| 56 4-Bromophenyl-phenylether      | 248       | 17.476 | 17.476 | (0.949) | 5757     | 0.20000            | 0.1768            |
| 57 Hexachlorobenzene              | 284       | 17.793 | 17.793 | (0.966) | 7271     | 0.20000            | 0.2130            |
| 58 Pentachlorophenol              | 266       | 18.149 | 18.149 | (0.985) | 2441     | 0.40000            | 0.1209            |
| * 59 Phenanthrene-d10             | 188       | 18.420 | 18.420 | (1.000) | 582036   | 4.00000            |                   |
| 60 Phenanthrene                   | 178       | 18.466 | 18.466 | (1.003) | 32949    | 0.20000            | 0.2076            |
| 61 Anthracene                     | 178       | 18.559 | 18.559 | (1.008) | 27813    | 0.20000            | 0.1827            |
| 62 Carbazole                      | 167       | 18.884 | 18.884 | (1.025) | 25881    | 0.20000            | 0.1897            |
| 63 Di-n-butylphthalate            | 149       | 19.665 | 19.666 | (1.068) | 22443    | 0.20000            | 0.1223            |
| 64 Fluoranthene                   | 202       | 20.841 | 20.841 | (0.889) | 30231    | 0.20000            | 0.1696            |
| 65 Pyrene                         | 202       | 21.267 | 21.267 | (0.907) | 32288    | 0.20000            | 0.1766            |
| § 66 Terphenyl-d14                | 244       | 21.538 | 21.538 | (0.918) | 26268    | 0.20000            | 0.1913            |
| 67 Butylbenzylphthalate           | 149       | 22.459 | 22.460 | (0.958) | 7408     | 0.20000            | 0.1154            |
| 68 Benzo(a)anthracene             | 228       | 23.419 | 23.419 | (0.999) | 30301    | 0.20000            | 0.1936            |
| * 69 Chrysene-d12                 | 240       | 23.450 | 23.450 | (1.000) | 443504   | 4.00000            |                   |
| 70 3,3'-Dichlorobenzidine         | 252       | 23.373 | 23.373 | (0.997) | 21879    | 0.60000            | 0.4363            |
| 71 Chrysene                       | 228       | 23.489 | 23.489 | (1.002) | 30146    | 0.20000            | 0.1971            |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 23.473 | 23.474 | (0.959) | 9248     | 0.20000            | 0.1169            |
| * 134 Di-n-octylphthalate-d4      | 153       | 24.480 | 24.480 | (1.000) | 540769   | 4.00000            |                   |
| 73 Di-n-octylphthalate            | 149       | 24.488 | 24.488 | (1.000) | 30690    | 0.20000            | 0.2169            |
| 74 Benzo(b)fluoranthene           | 252       | 25.362 | 25.362 | (0.969) | 28924    | 0.20000            | 0.1818 (H)        |
| 75 Benzo(k)fluoranthene           | 252       | 25.409 | 25.409 | (0.970) | 32537    | 0.20000            | 0.2014            |
| 76 Benzo(a)pyrene                 | 252       | 26.052 | 26.052 | (0.995) | 24358    | 0.20000            | 0.1713            |
| * 77 Perylene-d12                 | 264       | 26.183 | 26.183 | (1.000) | 490725   | 4.00000            |                   |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 28.990 | 28.990 | (1.107) | 27518    | 0.20000            | 0.1521            |
| 79 Dibenzo(a,h)anthracene         | 278       | 29.005 | 29.005 | (1.108) | 22711    | 0.20000            | 0.1512            |
| 80 Benzo(g,h,i)perylene           | 276       | 29.821 | 29.821 | (1.139) | 24036    | 0.20000            | 0.1535            |
| 90 N-Nitrosodimethylamine         | 74        | 4.936  | 4.936  | (0.531) | 13409    | 0.40000            | 0.4009            |
| 91 Aniline                        | 93        | 8.752  | 8.752  | (0.942) | 29775    | 0.40000            | 0.4065            |
| 93 Benzidine                      | 184       | 21.066 | 21.066 | (0.898) | 16630    | 0.40000            | 0.2272            |
| 103 Pyridine                      | 79        | 4.997  | 4.997  | (0.538) | 19539    | 0.40000            | 0.3803            |
| 105 1-methylnaphthalene           | 142       | 13.425 | 13.425 | (1.141) | 21820    | 0.20000            | 0.2000            |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 16.789 | 16.789 | (1.091) | 22091    | 0.20000            | 0.1918            |



| Compounds                     | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                               | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| =====                         | =====     |  | =====  | =====  | =====   | =====    | =====              | =====             |
| 187 Total Benzofluoranthenes  | 252       |  | 25.409 | 25.409 | (0.970) | 58677    | 0.40000            | 0.3820            |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 16.102 | 16.103 | (1.047) | 3113     | 0.20000            | 0.09564           |

QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023  
 Lab File ID: NT10031508.D Calibration Time: 21:50  
 Lab Smp Id: SLC0228-CAL1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 171542   | 85771      | 343084  | 173382 | 1.07  |
| 27 Naphthalene-d8     | 624466   | 312233     | 1248932 | 622719 | -0.28 |
| 42 Acenaphthene-d10   | 337226   | 168613     | 674452  | 323444 | -4.09 |
| 59 Phenanthrene-d10   | 572849   | 286425     | 1145698 | 582036 | 1.60  |
| 69 Chrysene-d12       | 347068   | 173534     | 694136  | 443504 | 27.79 |
| 134 Di-n-octylphthala | 500317   | 250159     | 1000634 | 540769 | 8.09  |
| 77 Perylene-d12       | 421549   | 210775     | 843098  | 490725 | 16.41 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.30     | 8.80     | 9.80  | 9.29   | -0.08 |
| 27 Naphthalene-d8     | 11.78    | 11.28    | 12.28 | 11.77  | -0.06 |
| 42 Acenaphthene-d10   | 15.38    | 14.88    | 15.88 | 15.38  | 0.01  |
| 59 Phenanthrene-d10   | 18.42    | 17.92    | 18.92 | 18.42  | 0.00  |
| 69 Chrysene-d12       | 23.45    | 22.95    | 23.95 | 23.45  | 0.00  |
| 134 Di-n-octylphthala | 24.48    | 23.98    | 24.98 | 24.48  | 0.00  |
| 77 Perylene-d12       | 26.18    | 25.68    | 26.68 | 26.18  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT10031508.D

Lab ID: SLC0228-CAL1  
nt10.i, 20230315.b\ABN.m, 16-MAR-2023 00:22

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

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NONE

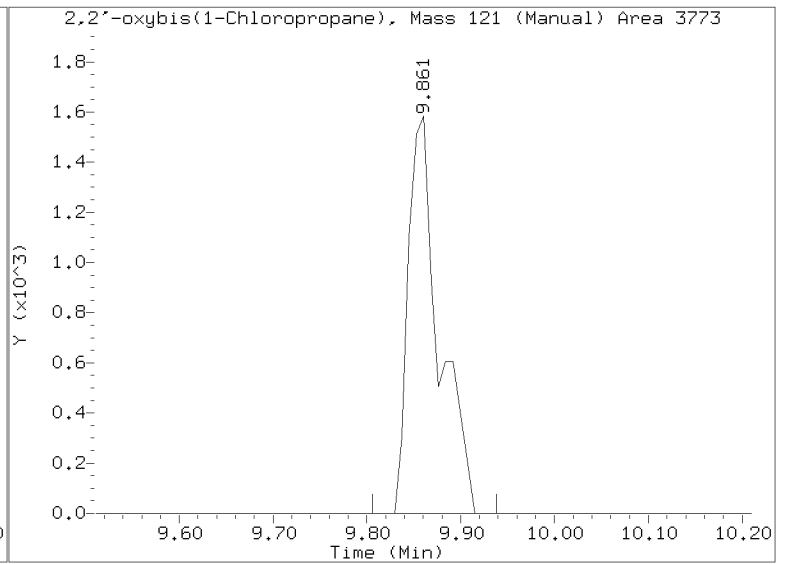
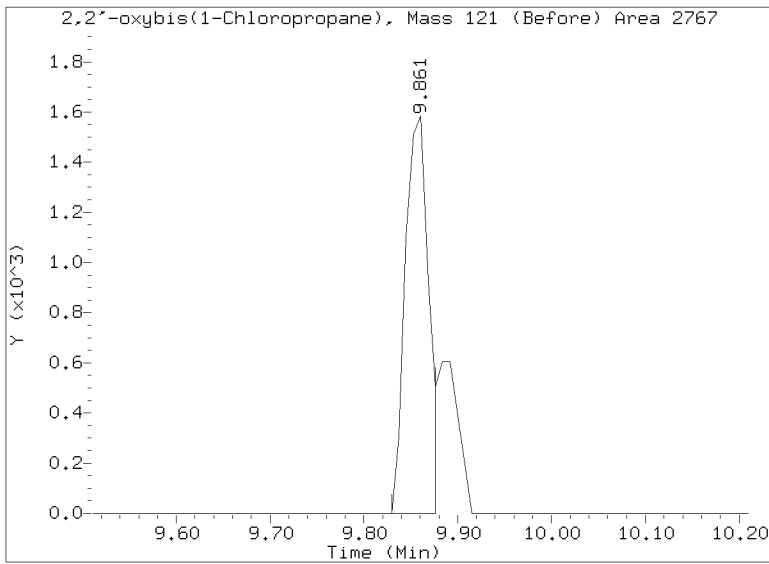
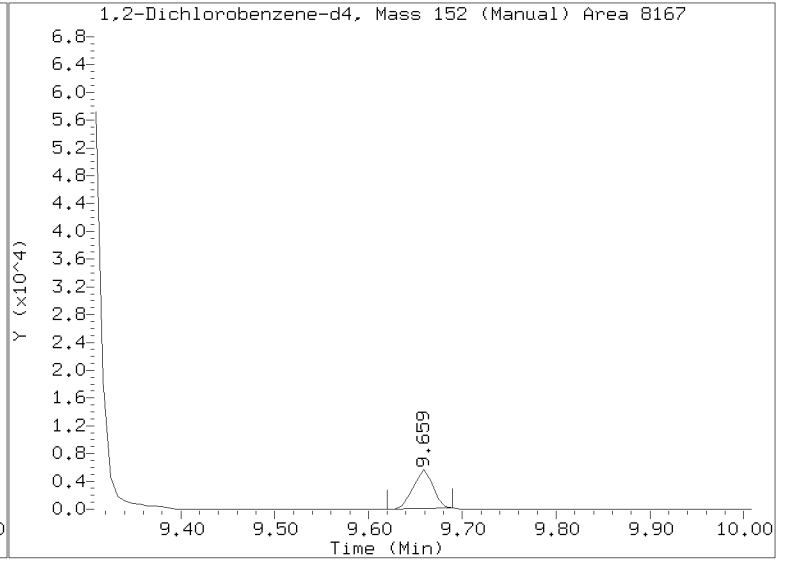
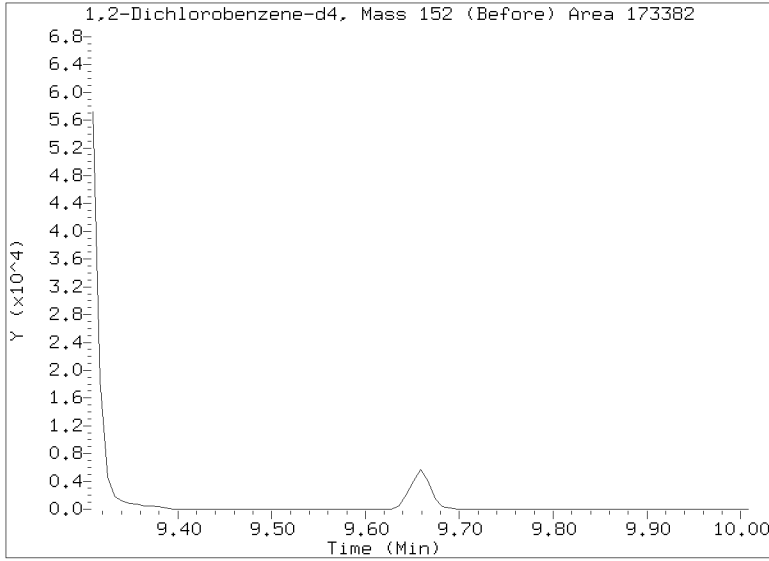
RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

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Injection Date: 16-MAR-2023 00:22  
Lab ID: SLC0228-CAL1 Client ID:  
Report Date: 03/16/2023 12:20



Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031511.D

Date: 16-MAR-2023 02:16

Client ID:

Sample Info: SLC0228-SCV1

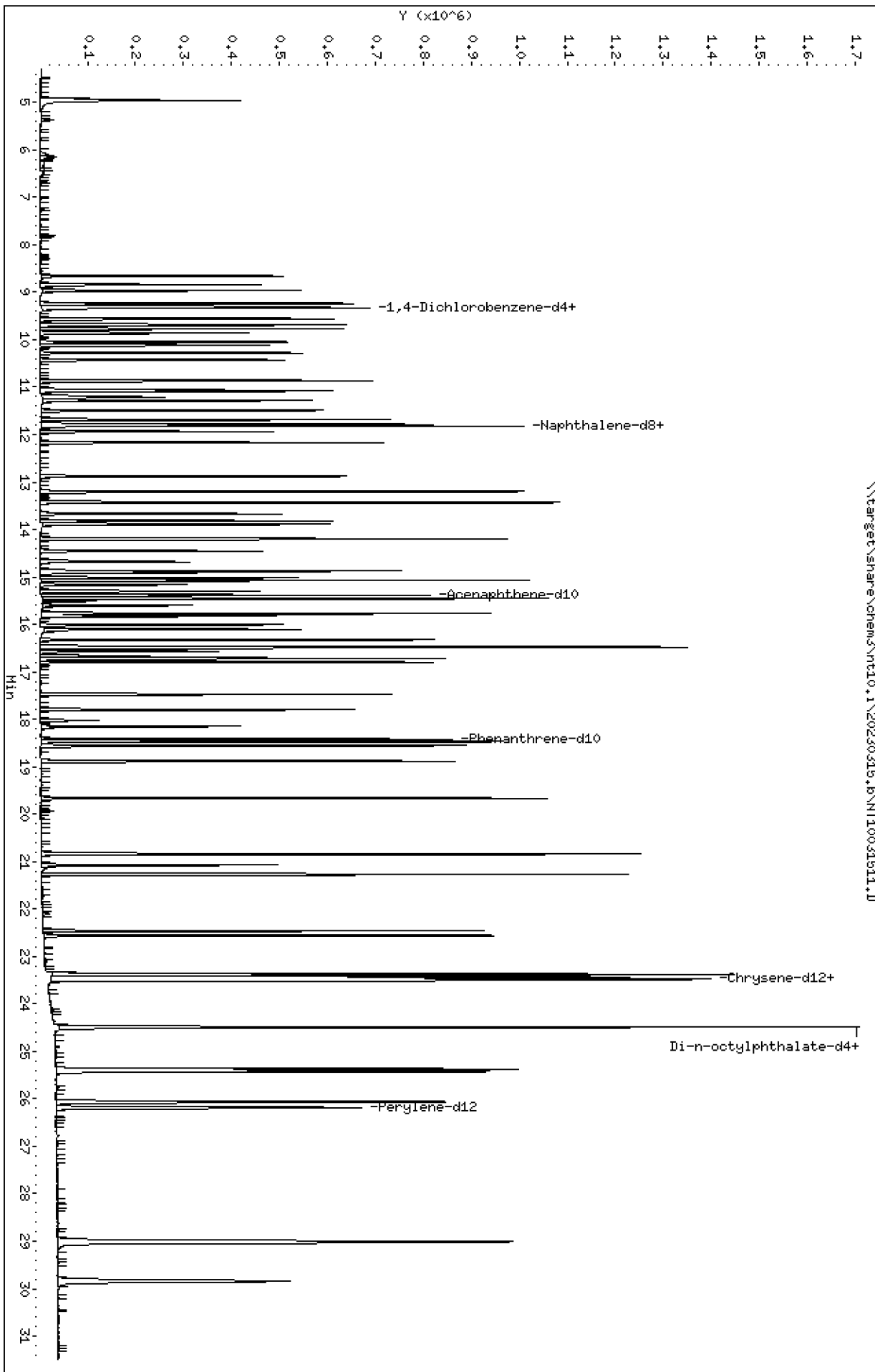
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

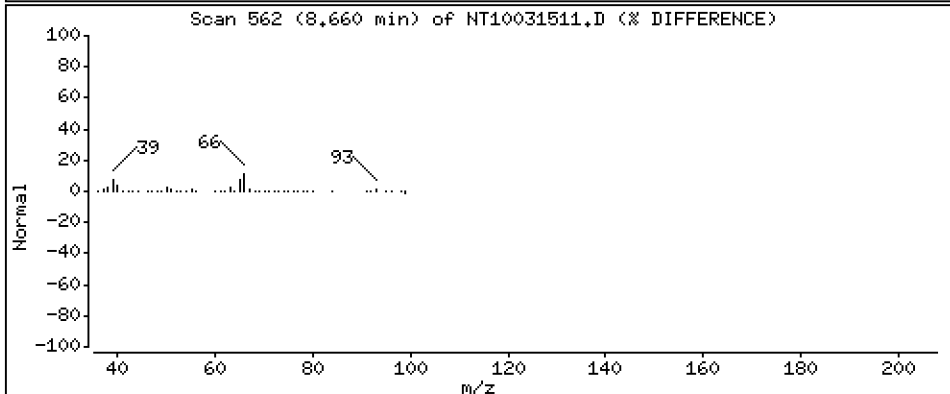
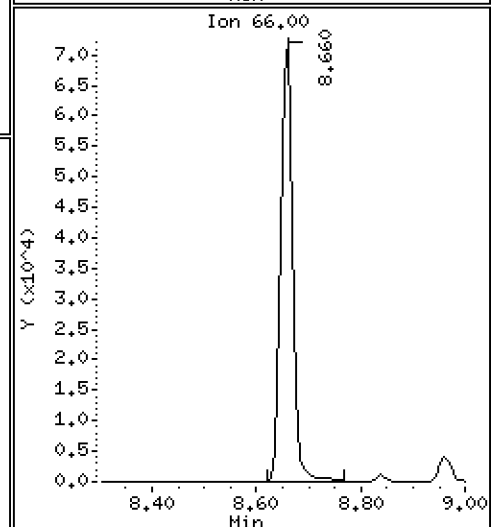
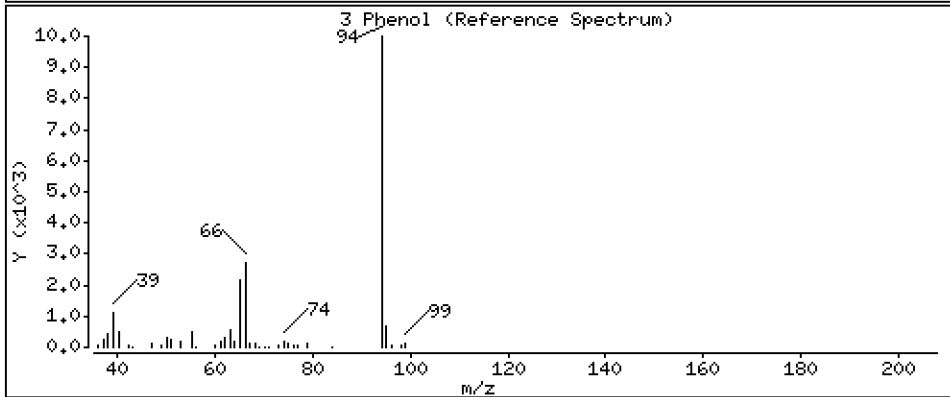
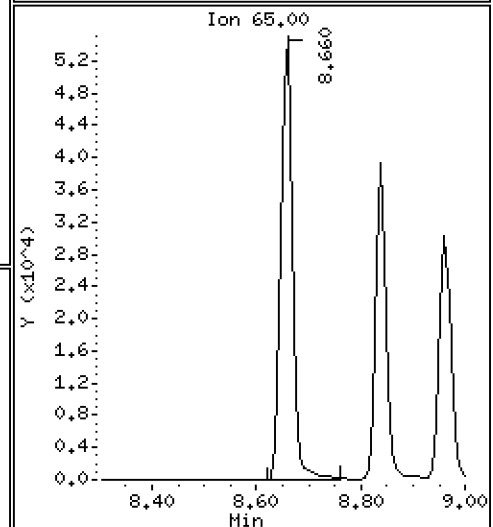
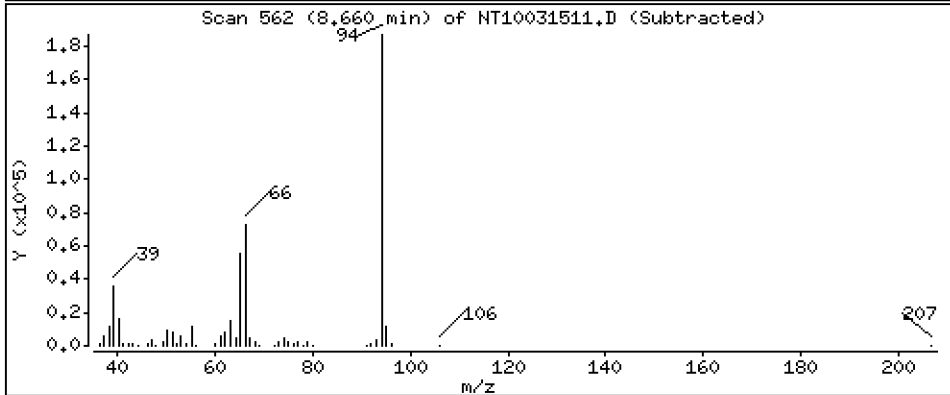
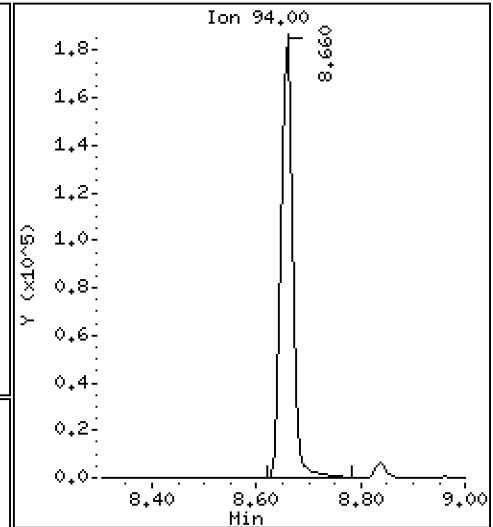
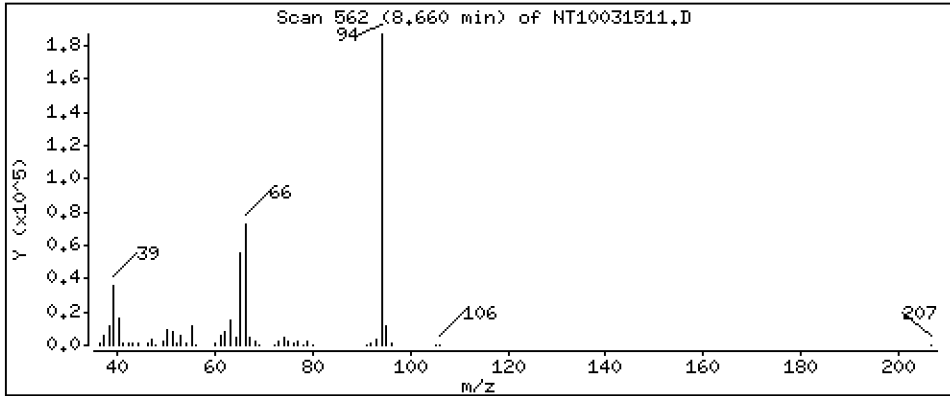
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 4,412 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

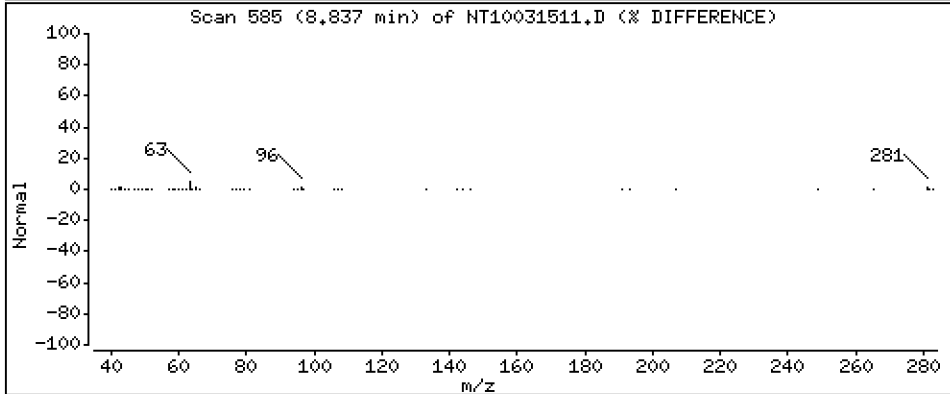
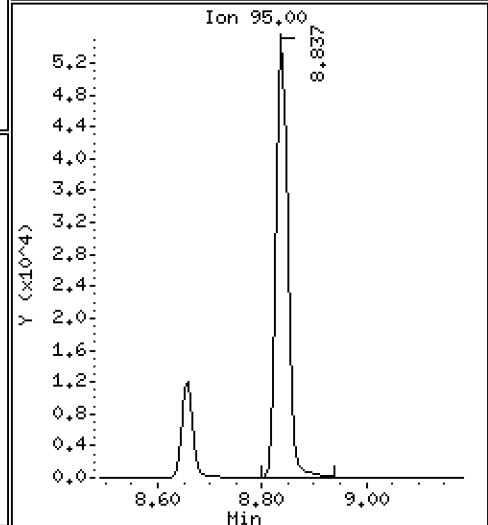
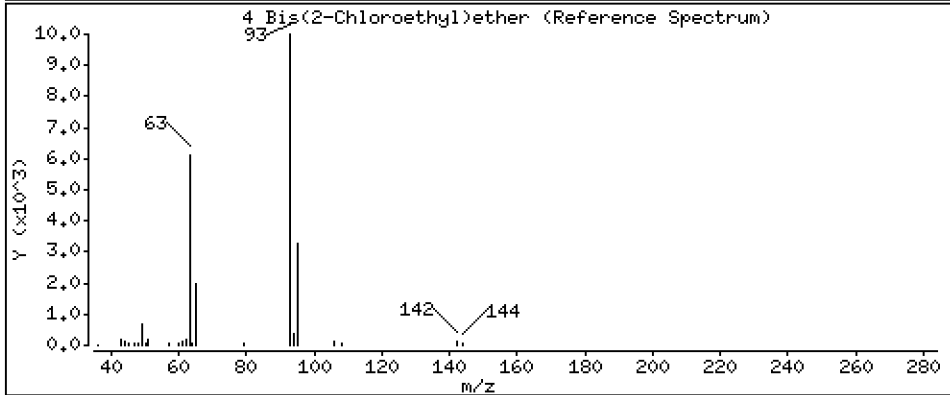
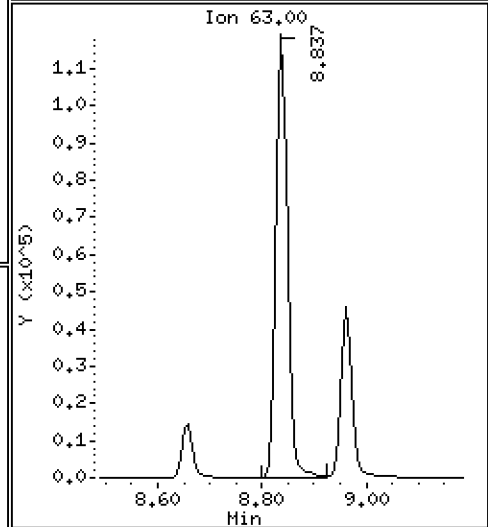
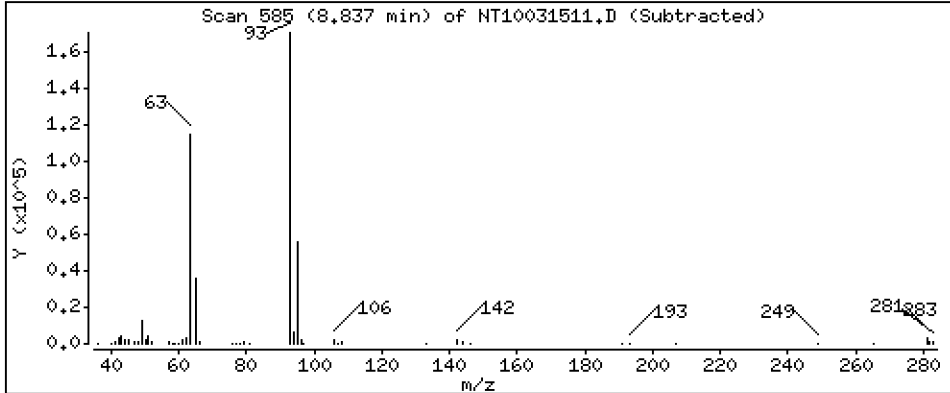
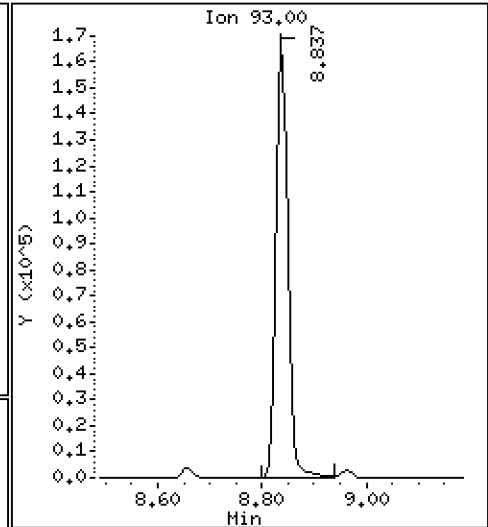
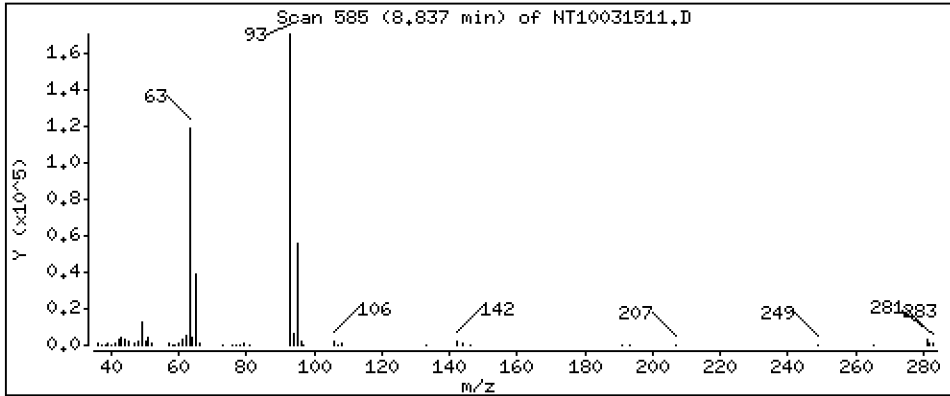
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 5,258 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

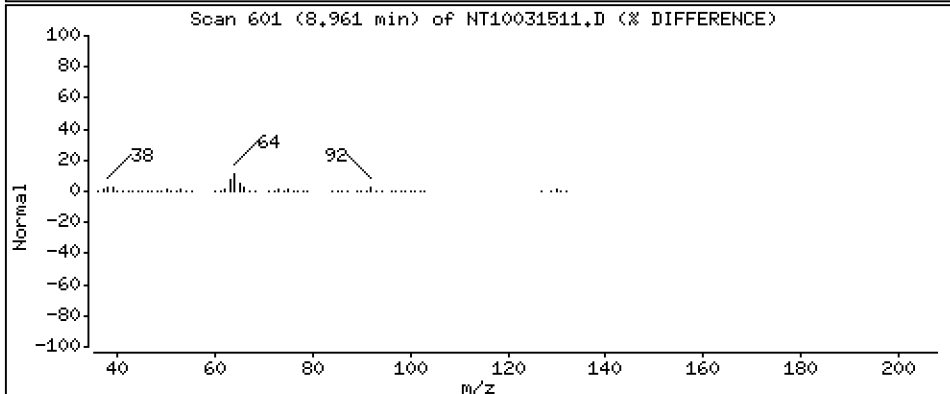
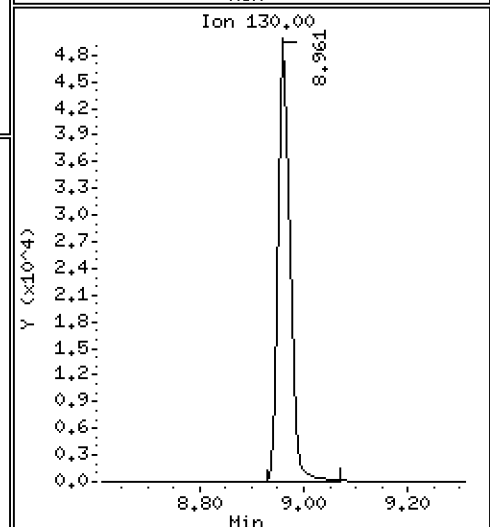
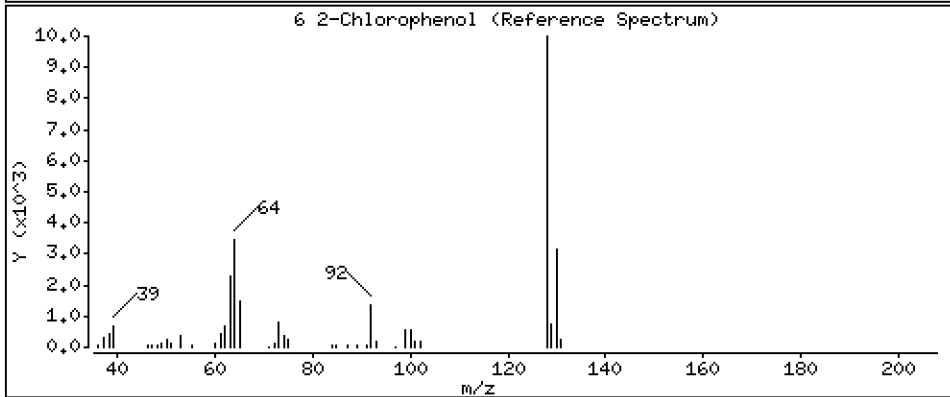
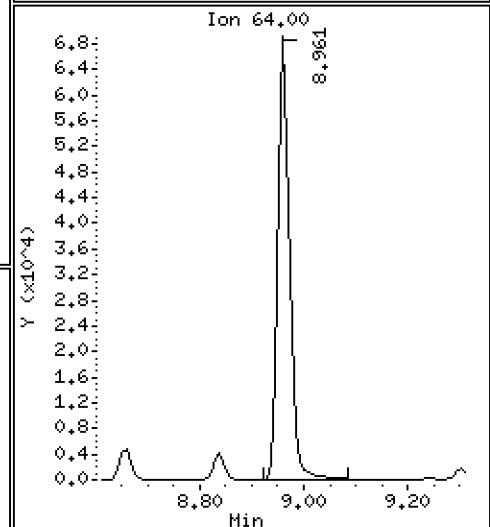
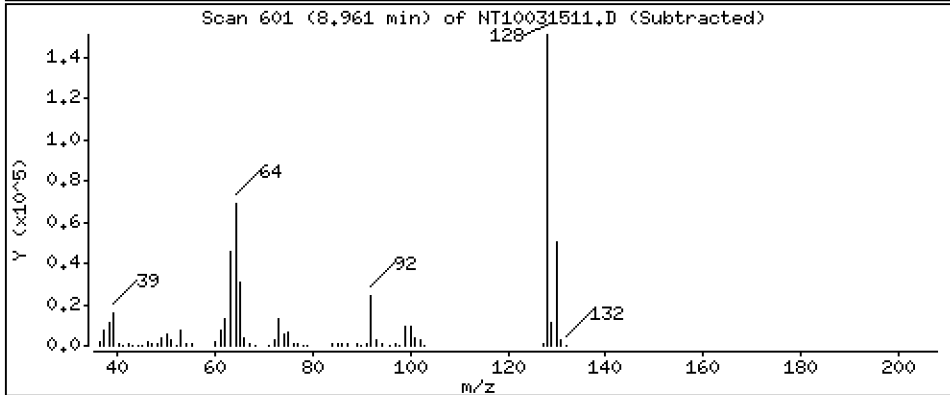
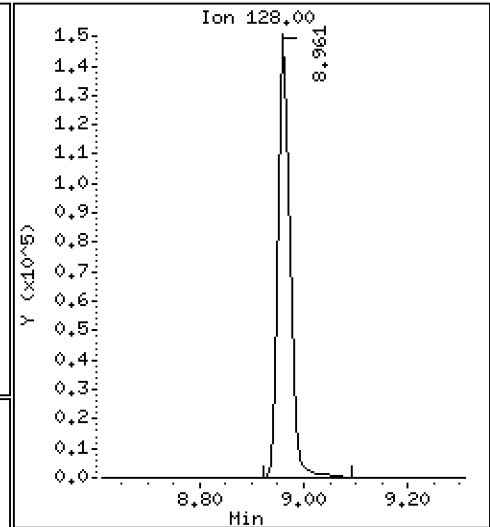
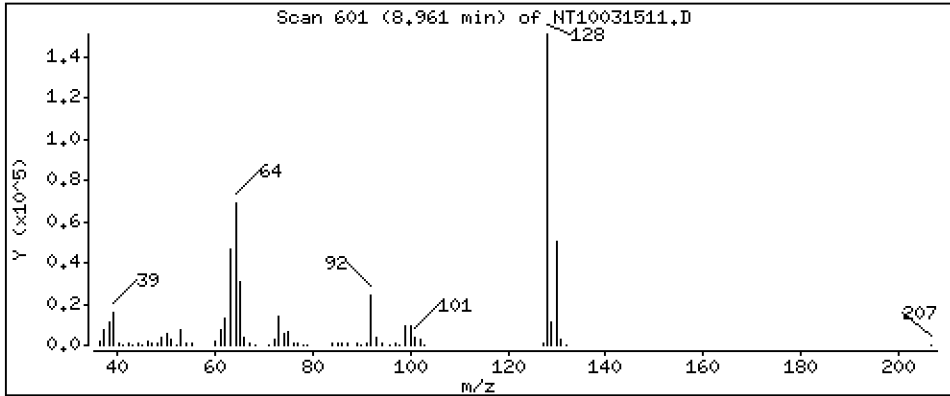
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,277 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

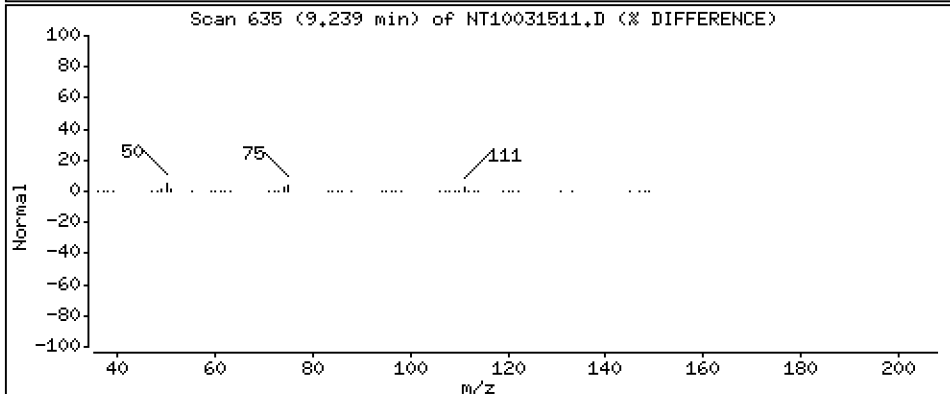
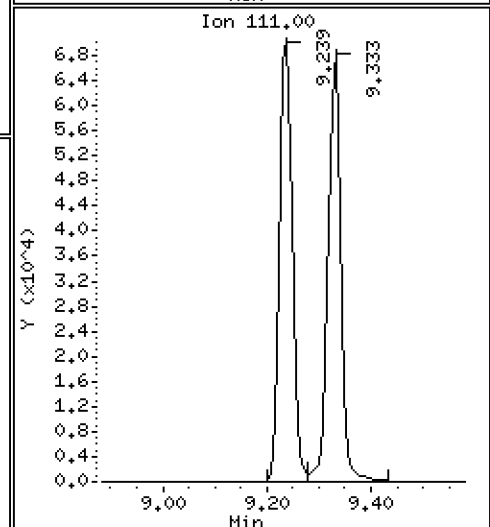
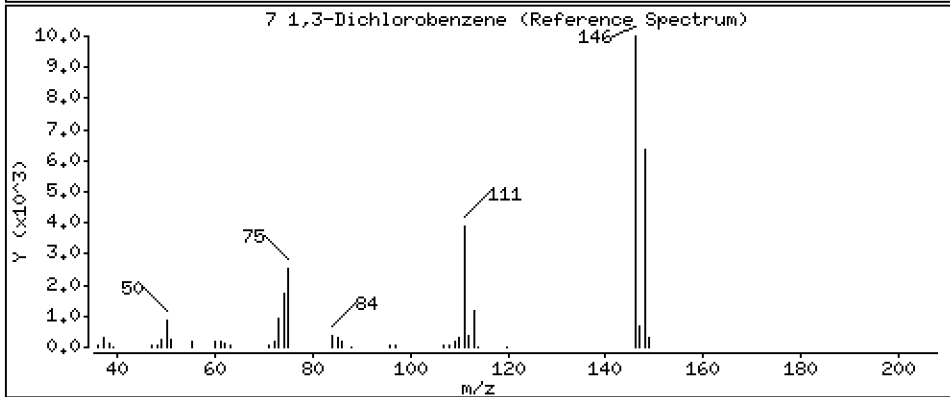
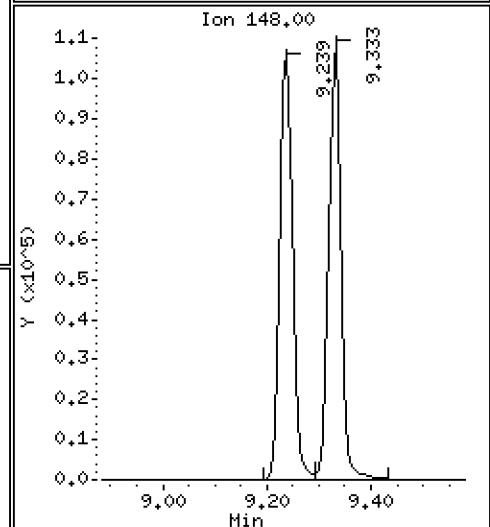
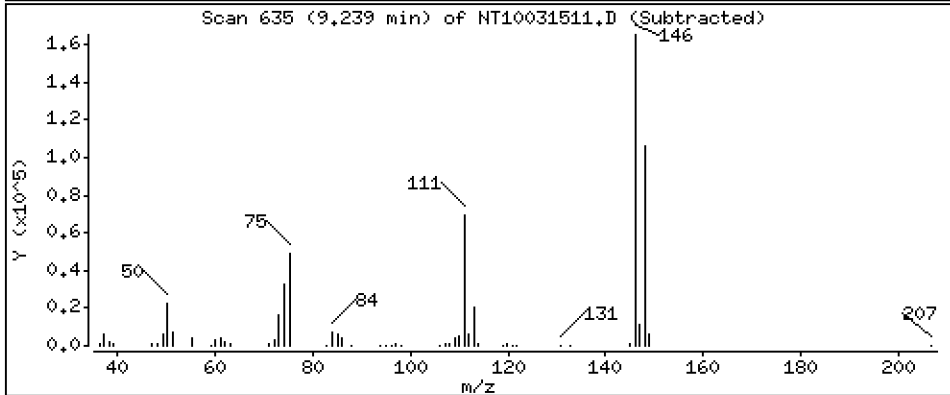
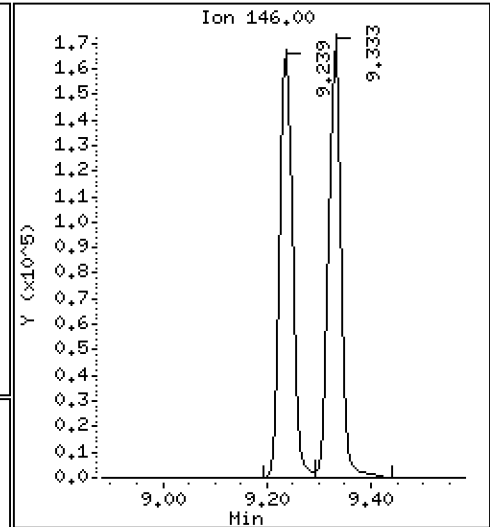
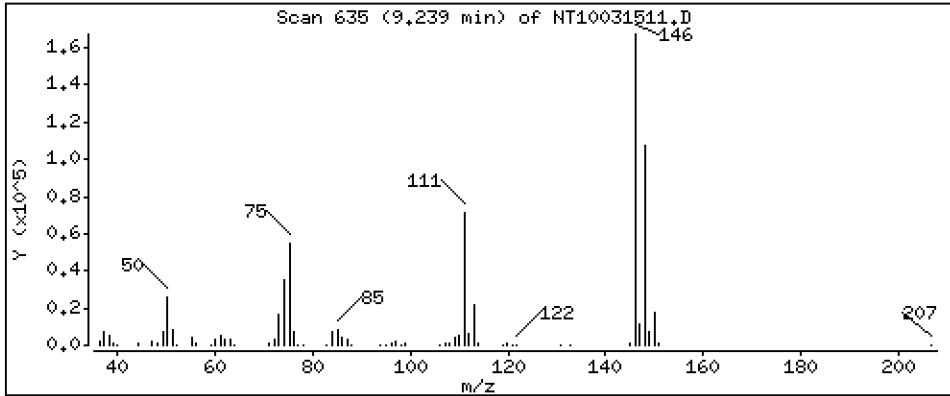
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 4.772 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

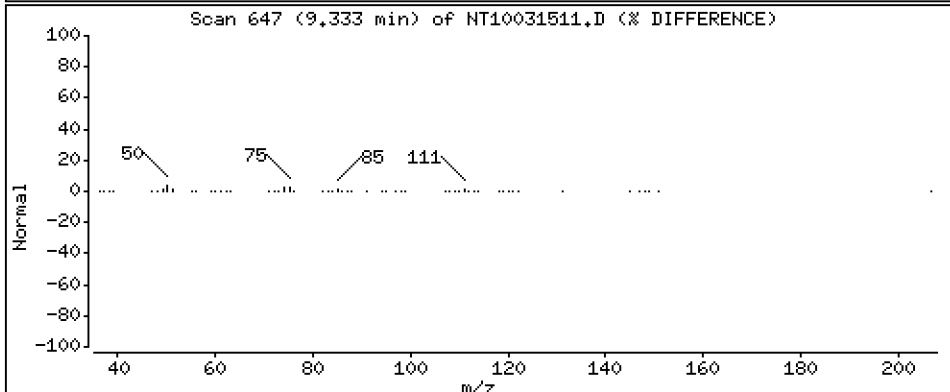
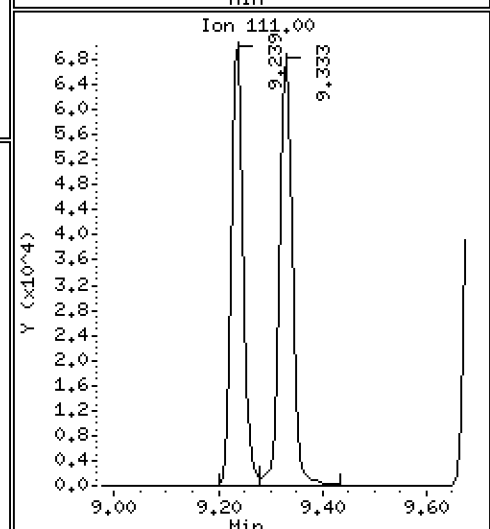
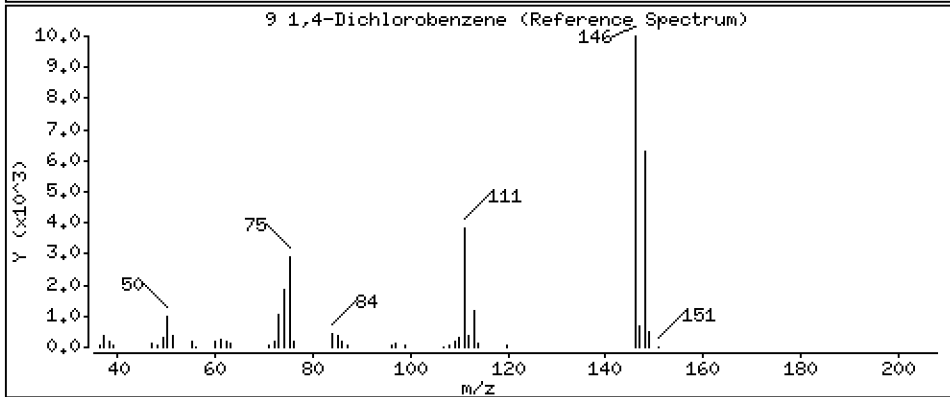
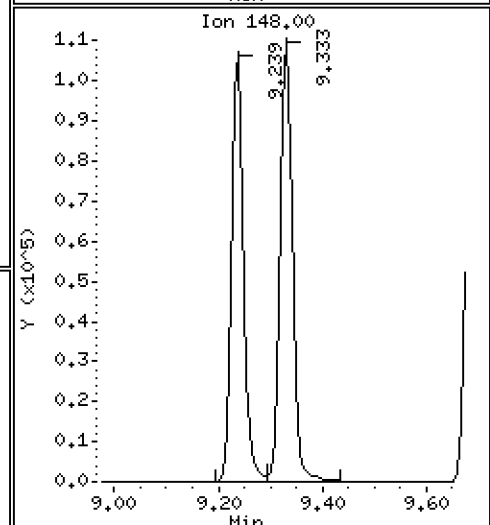
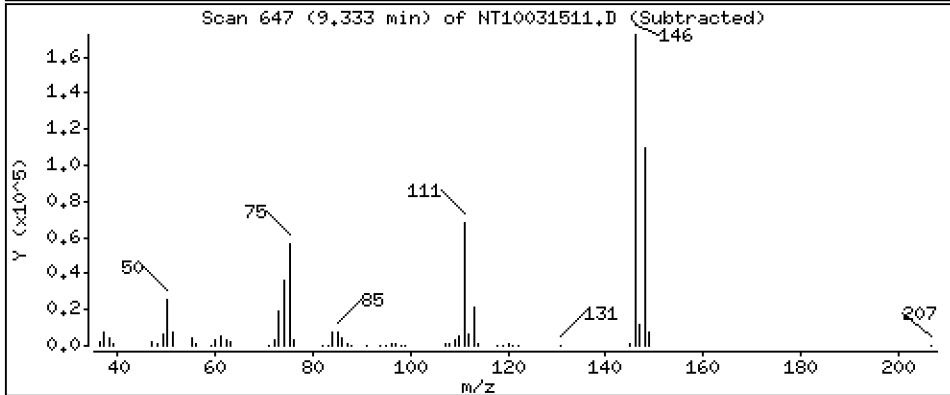
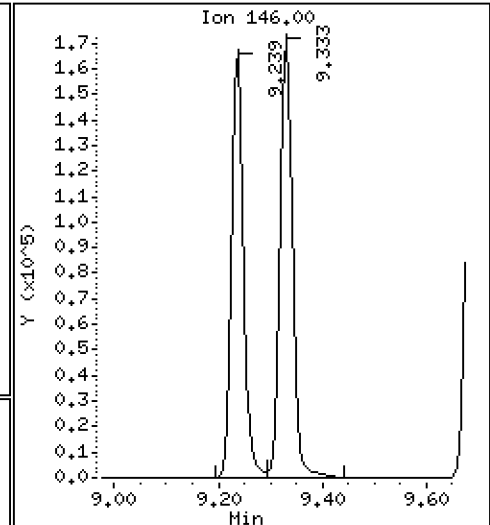
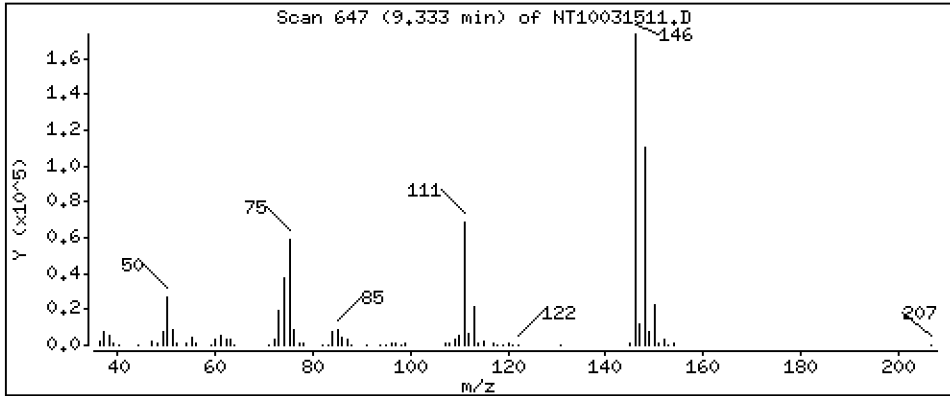
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,913 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

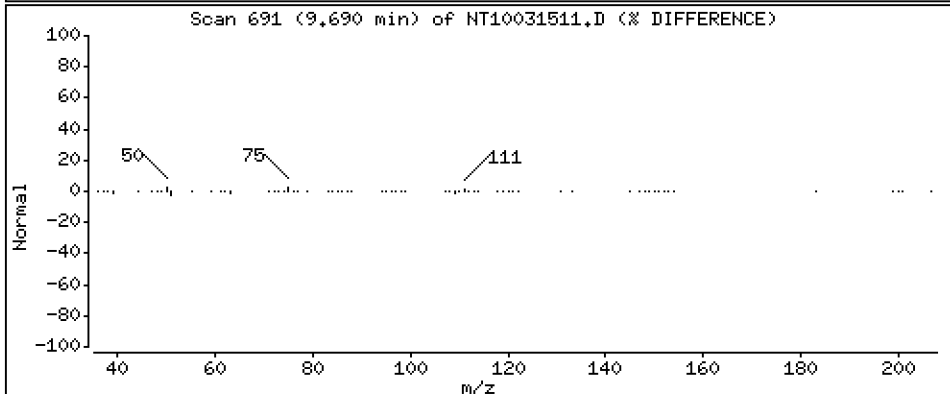
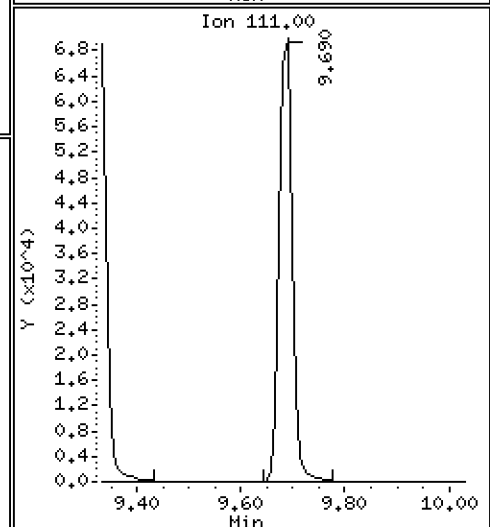
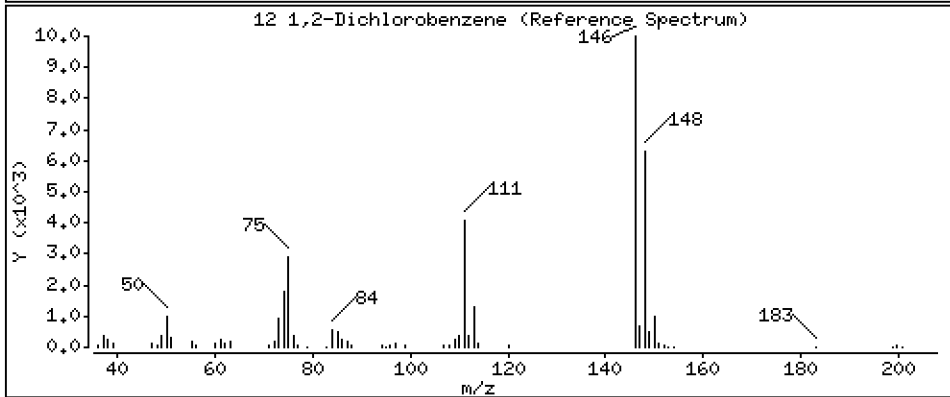
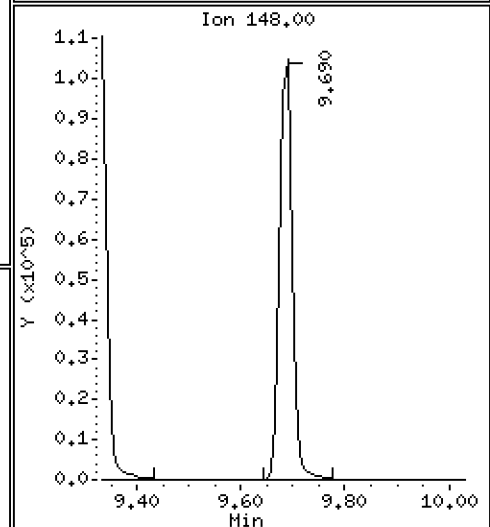
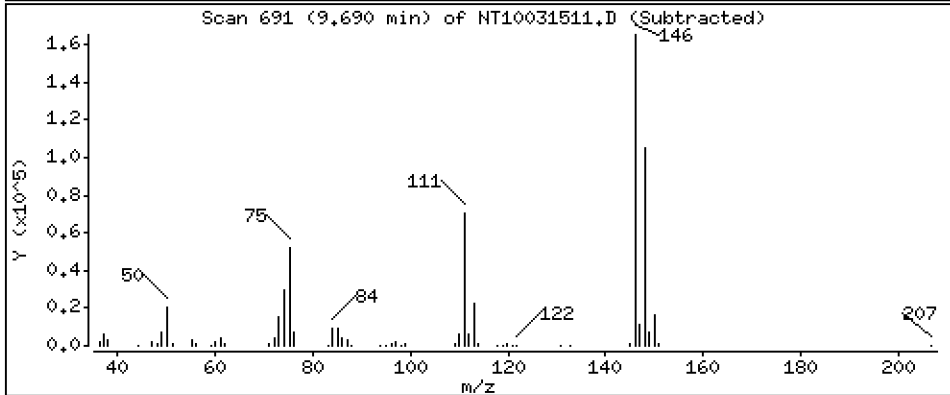
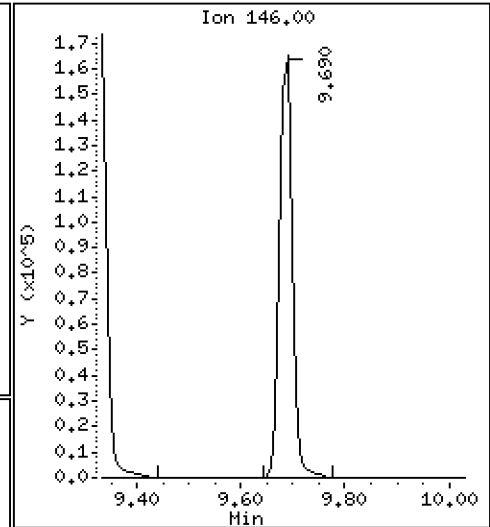
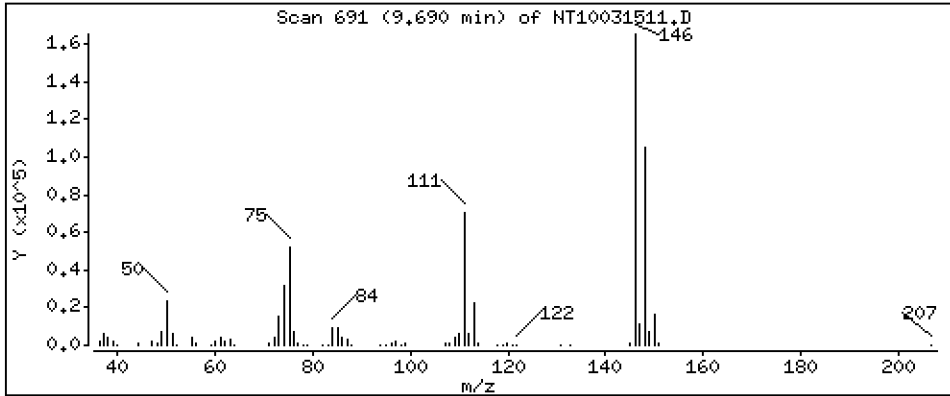
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,882 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

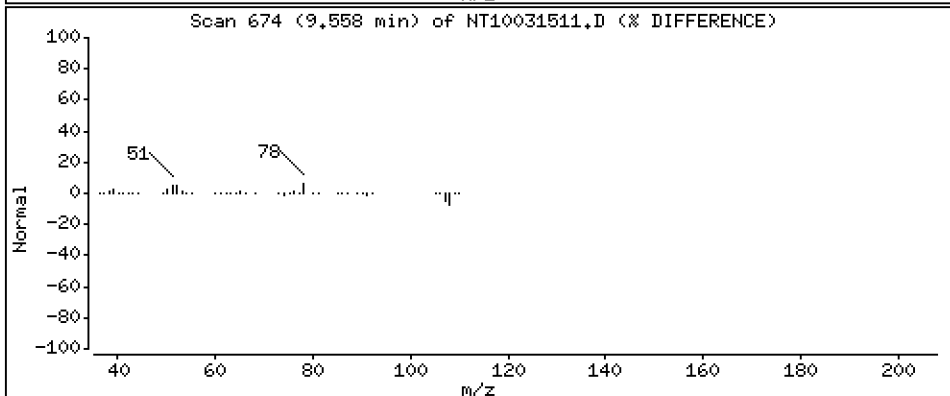
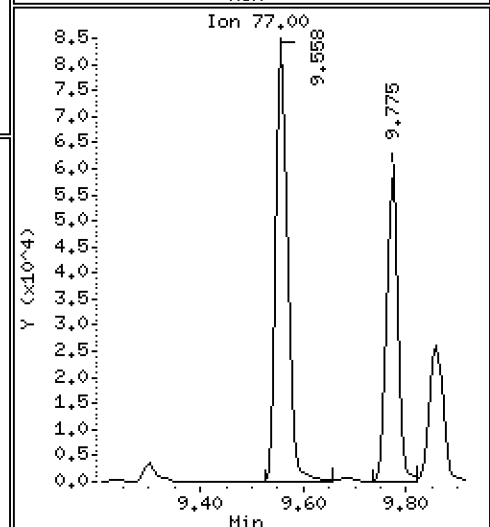
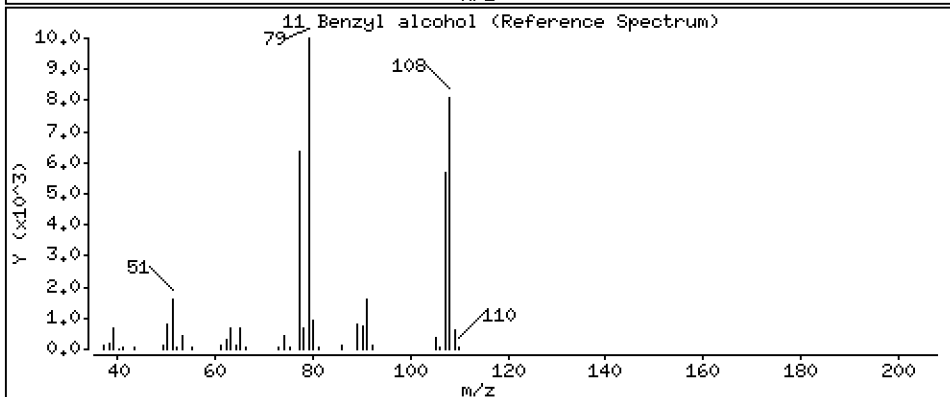
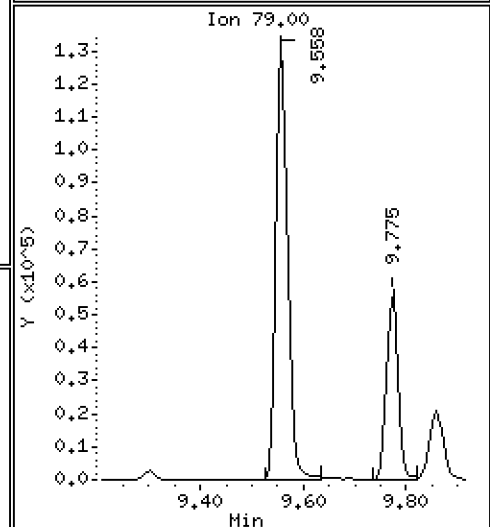
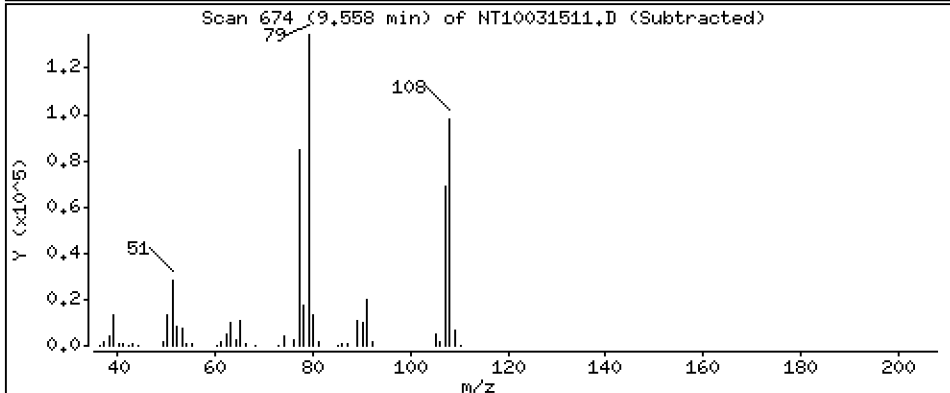
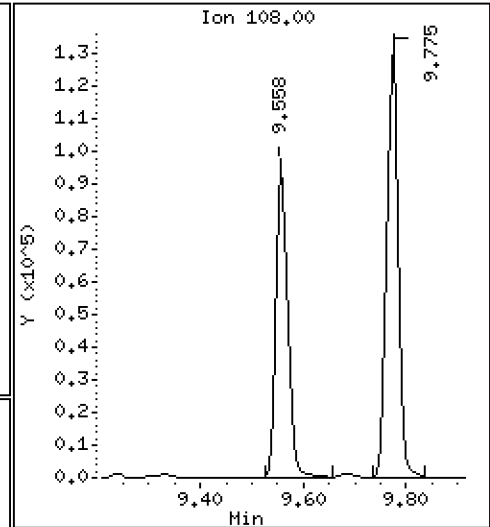
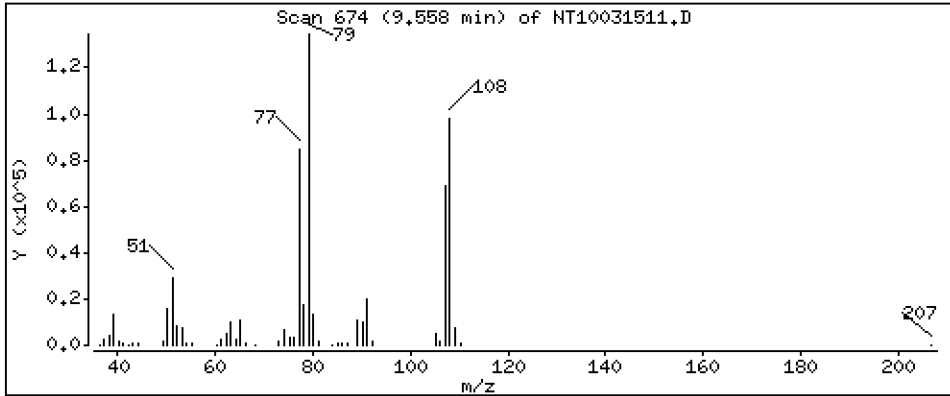
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.927 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

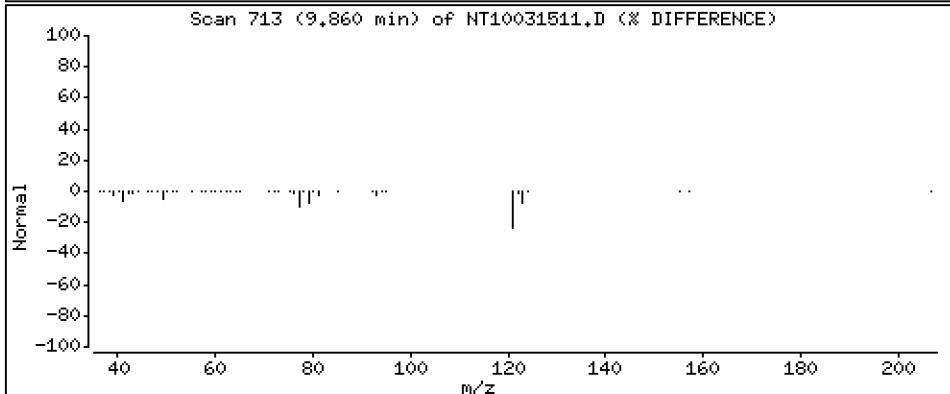
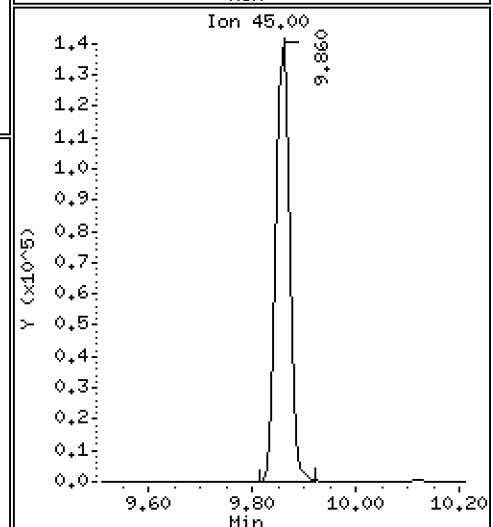
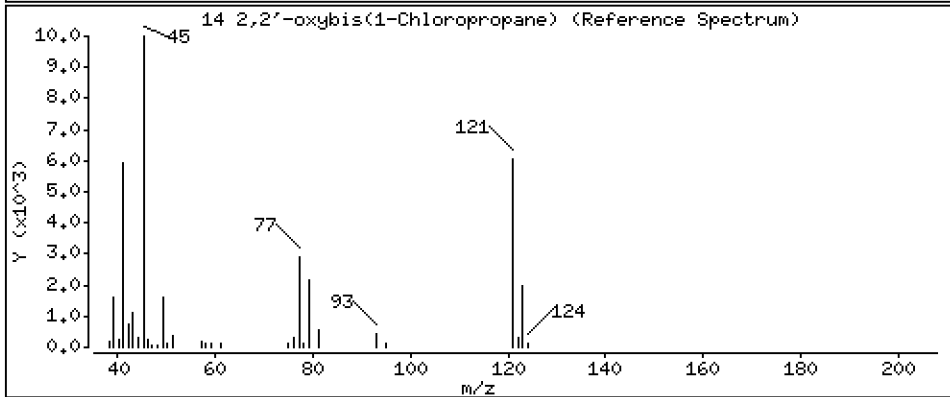
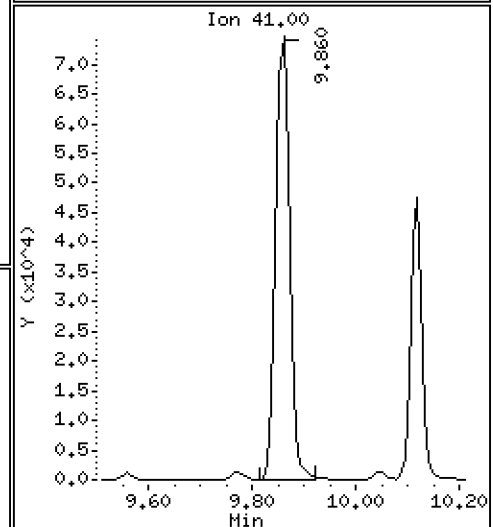
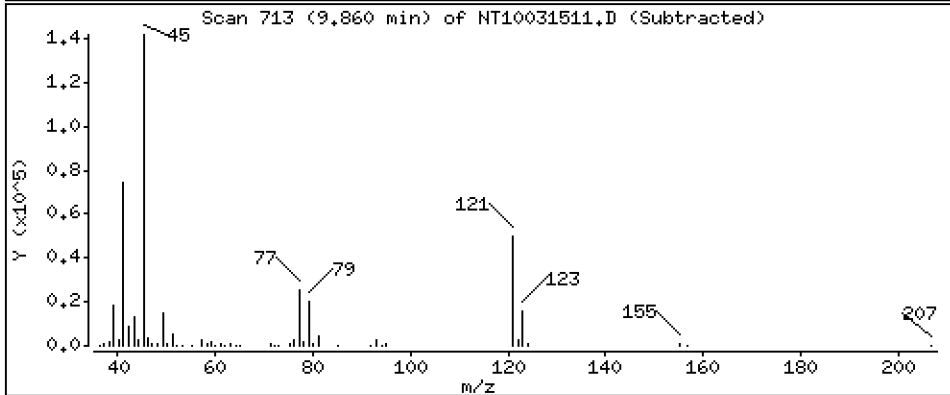
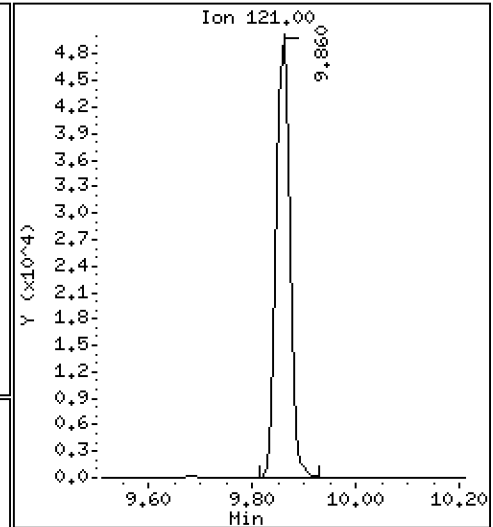
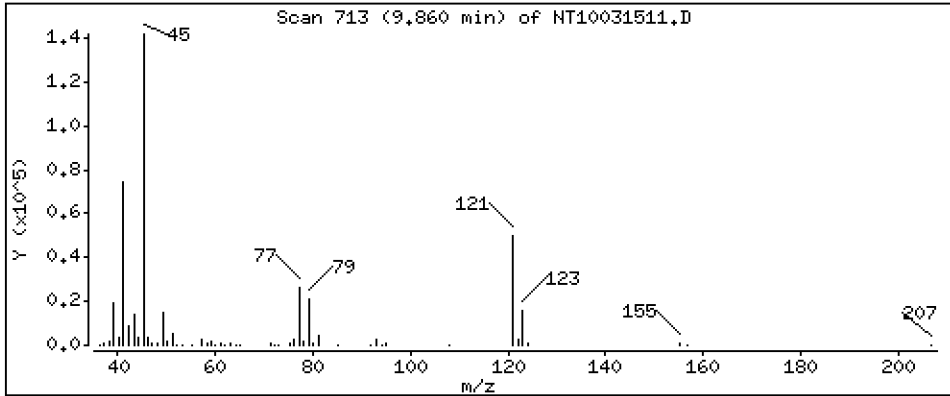
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 6,214 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

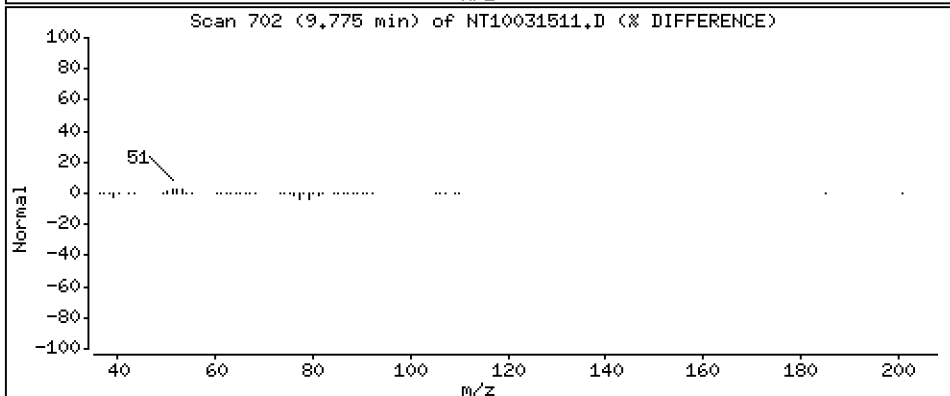
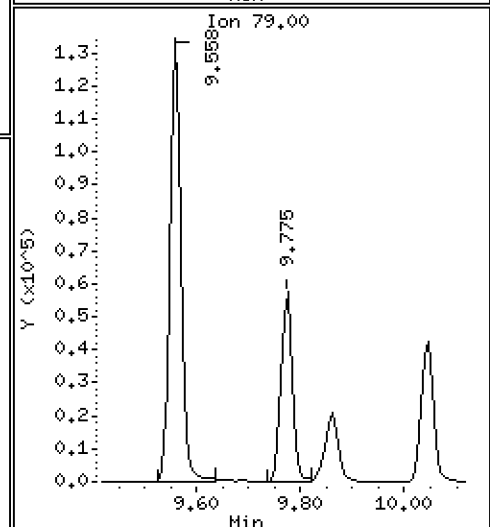
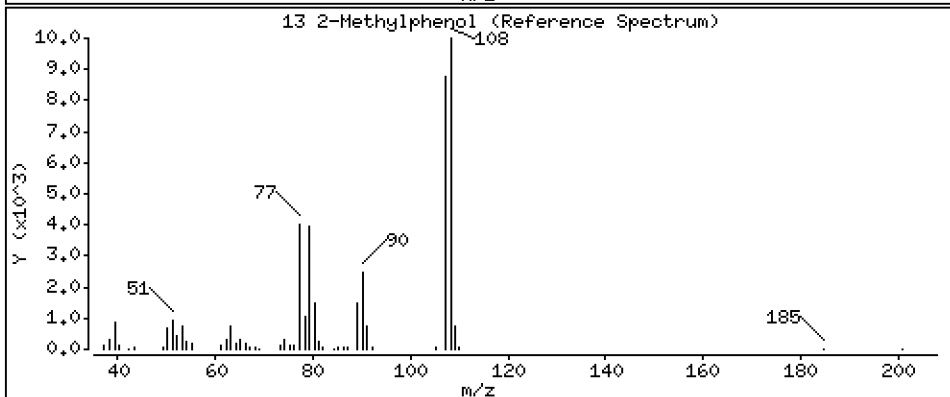
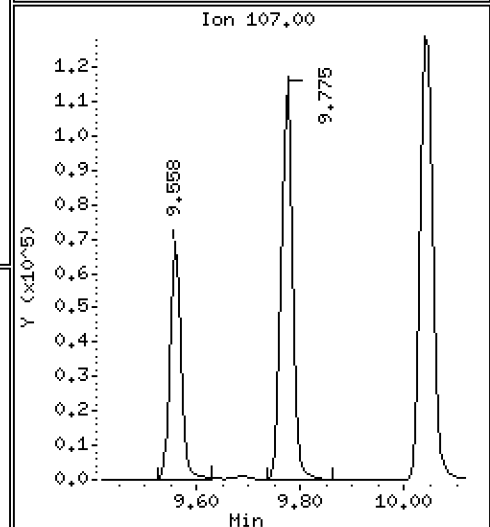
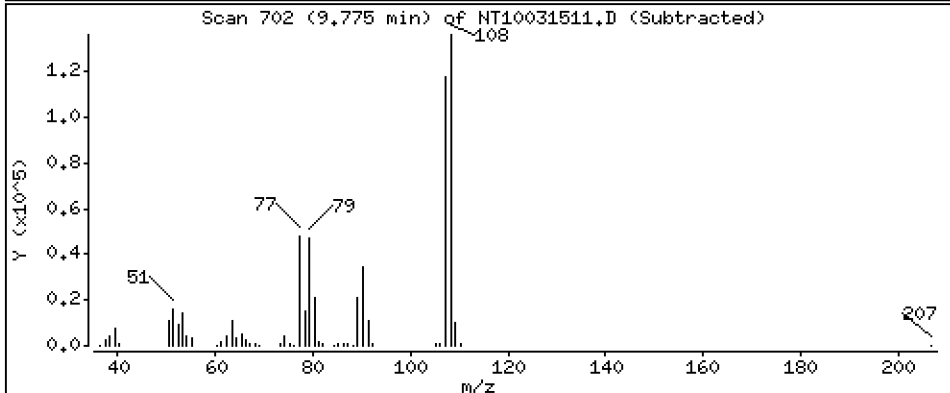
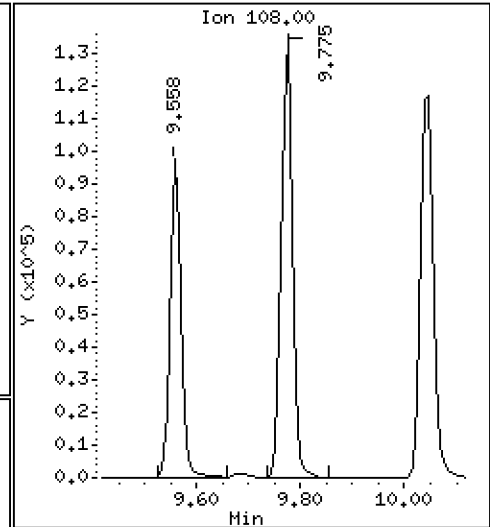
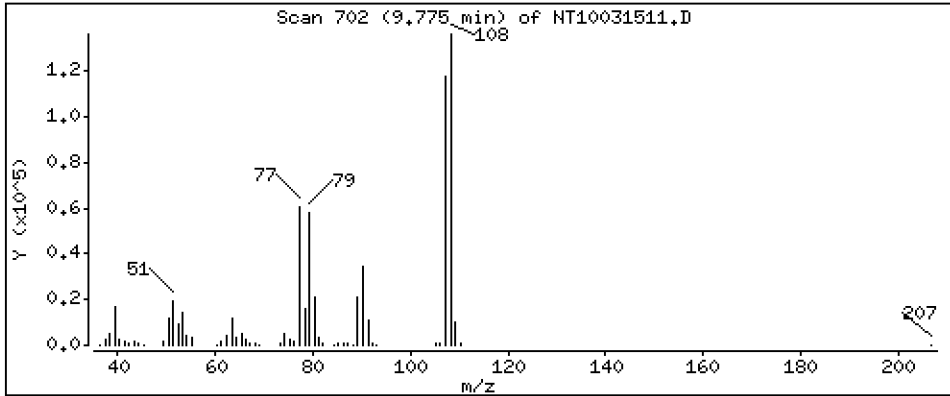
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.215 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

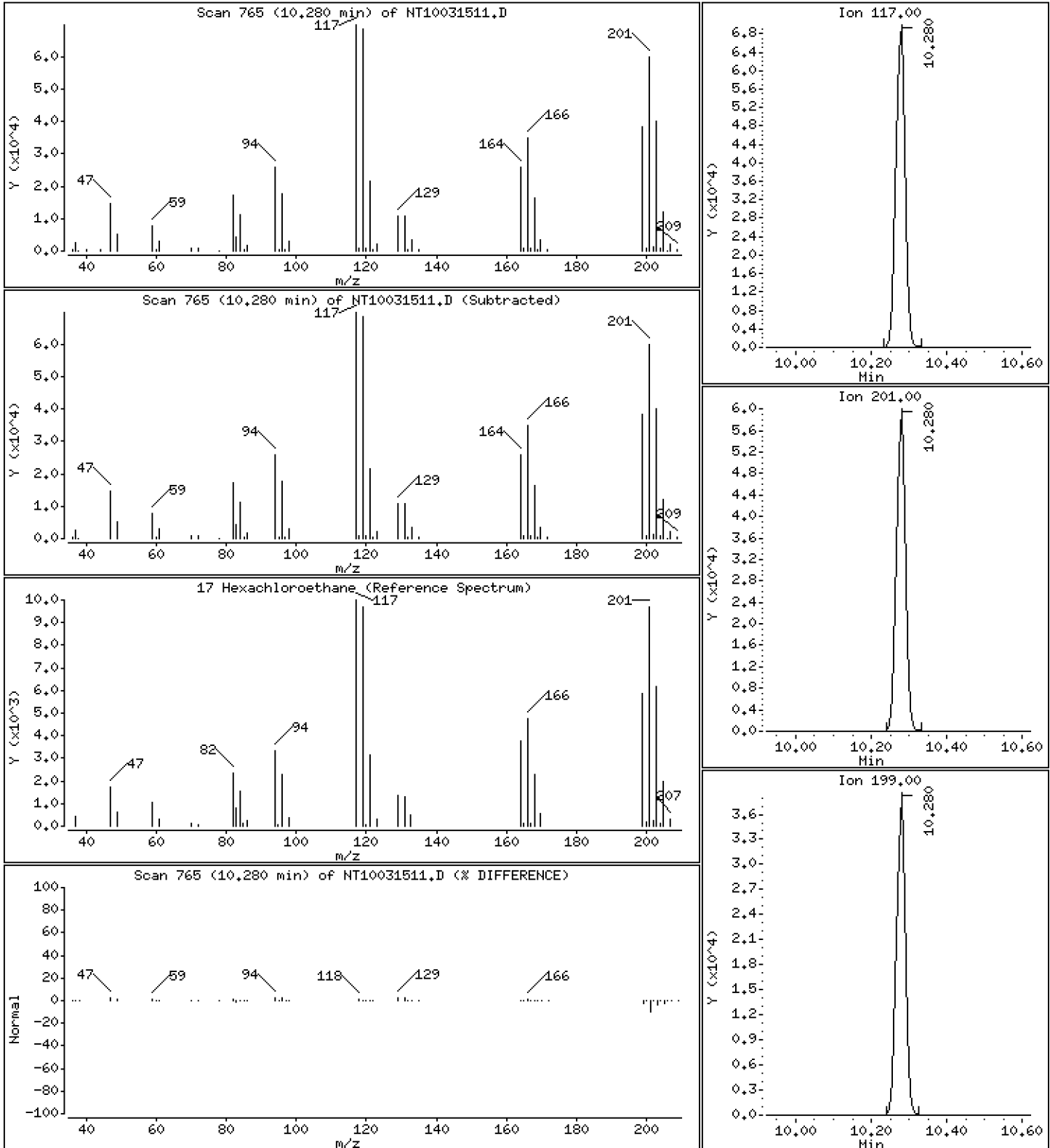
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 5,003 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

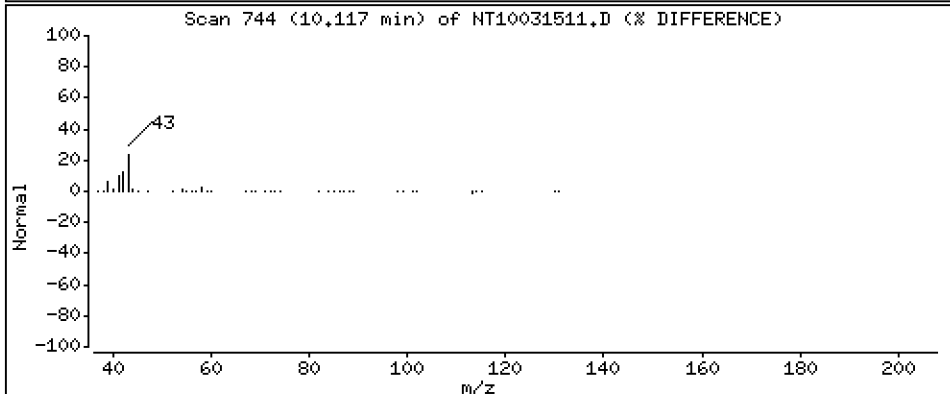
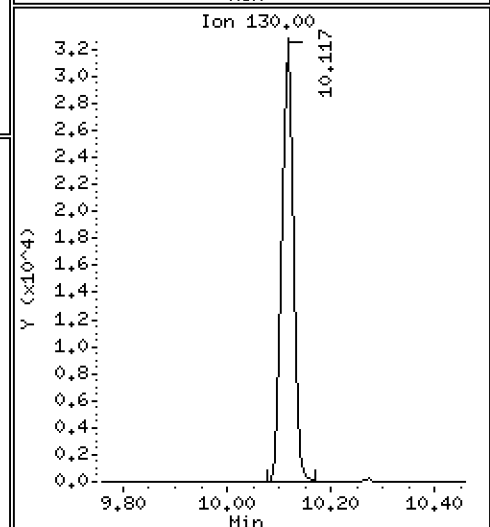
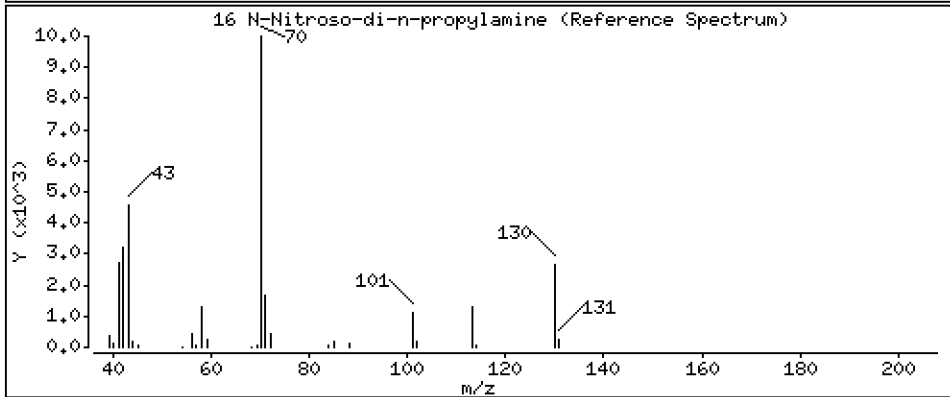
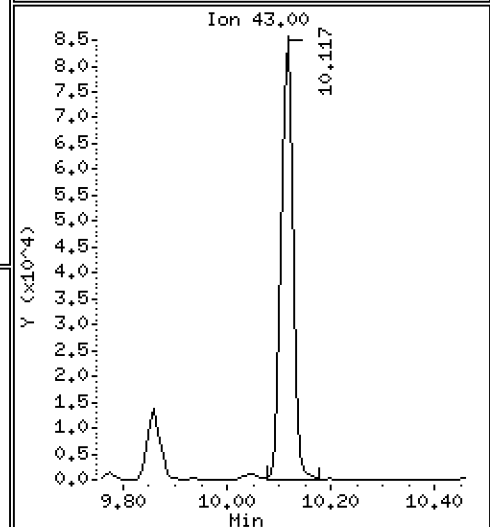
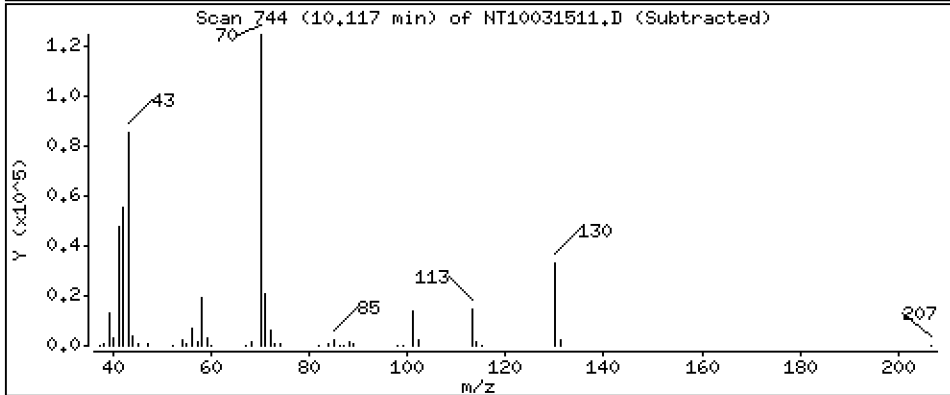
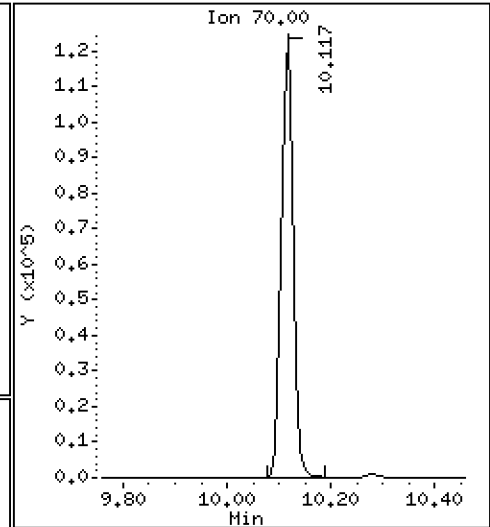
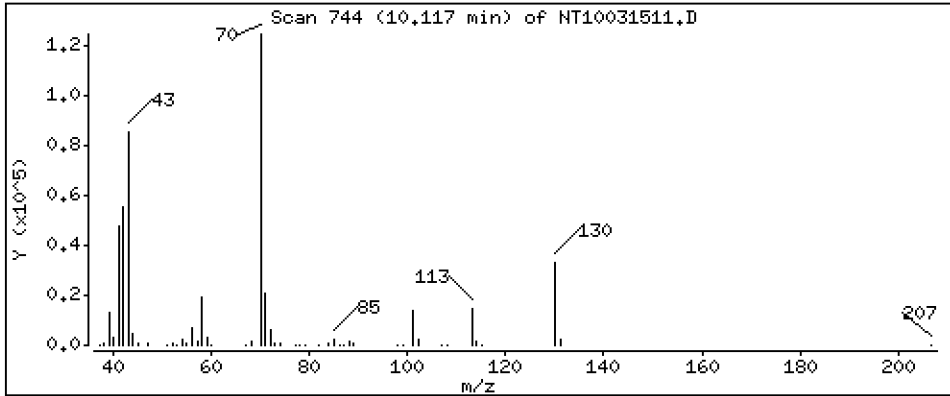
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,179 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

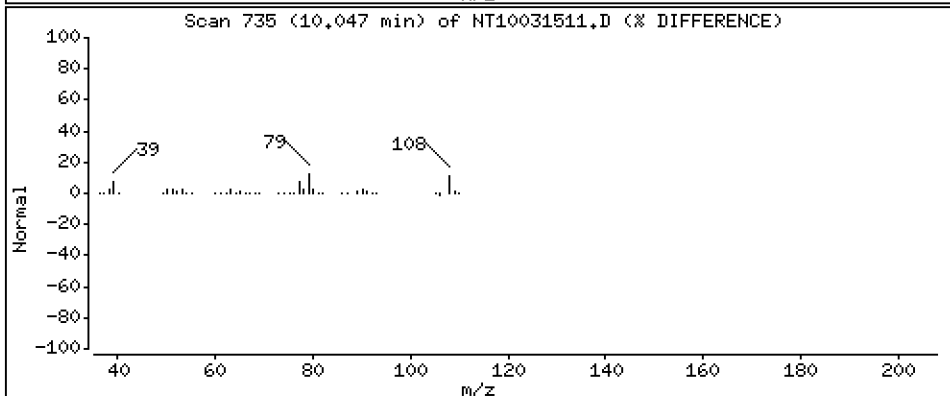
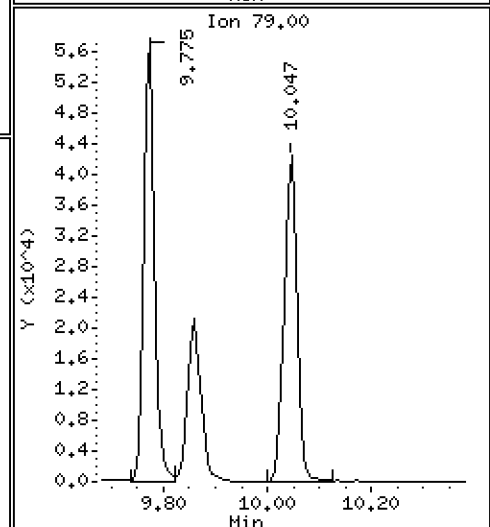
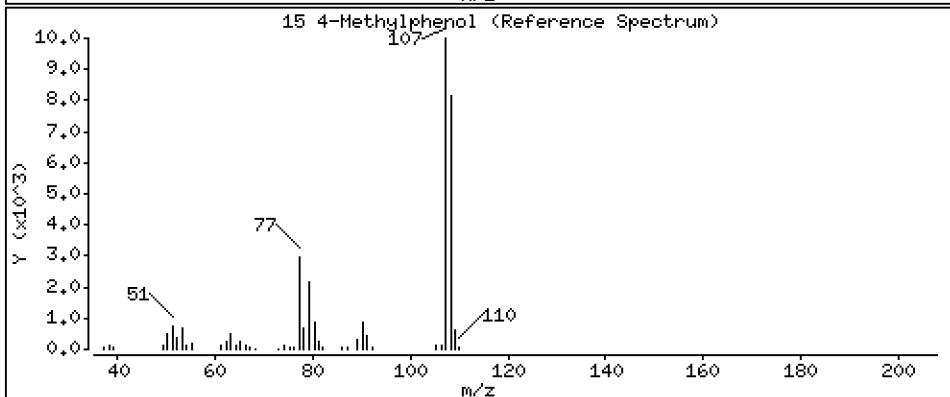
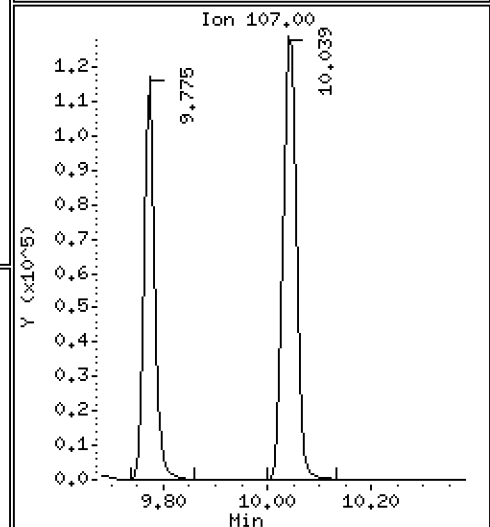
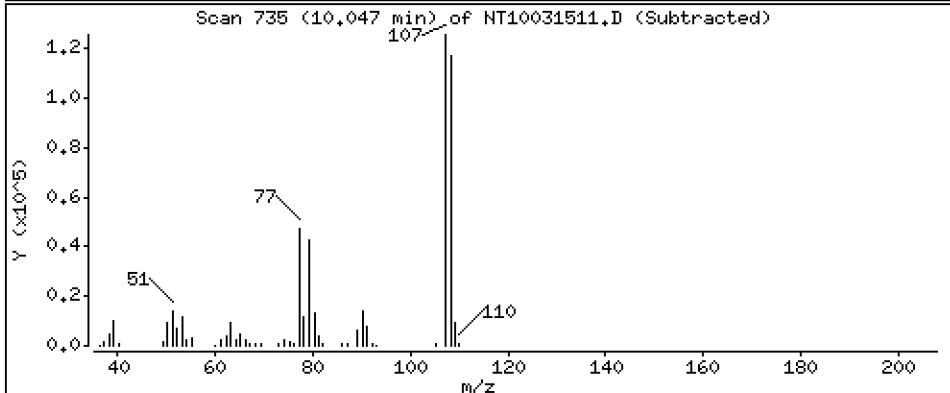
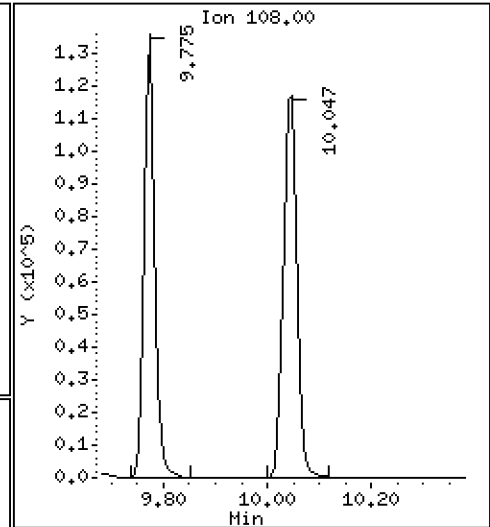
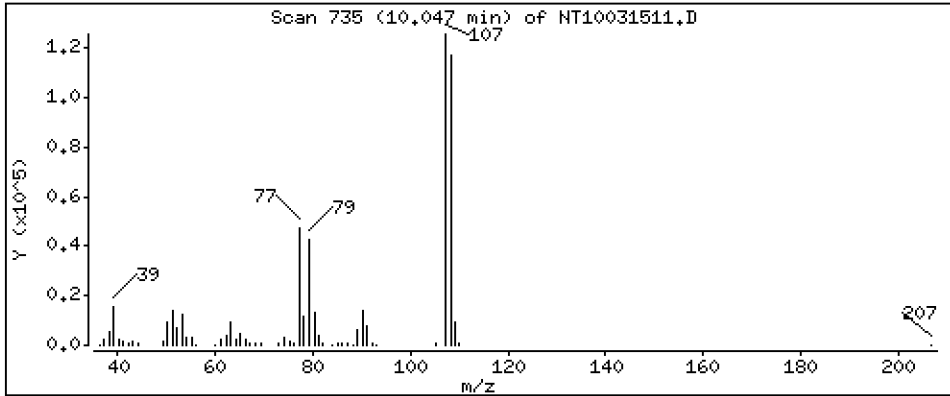
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,365 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

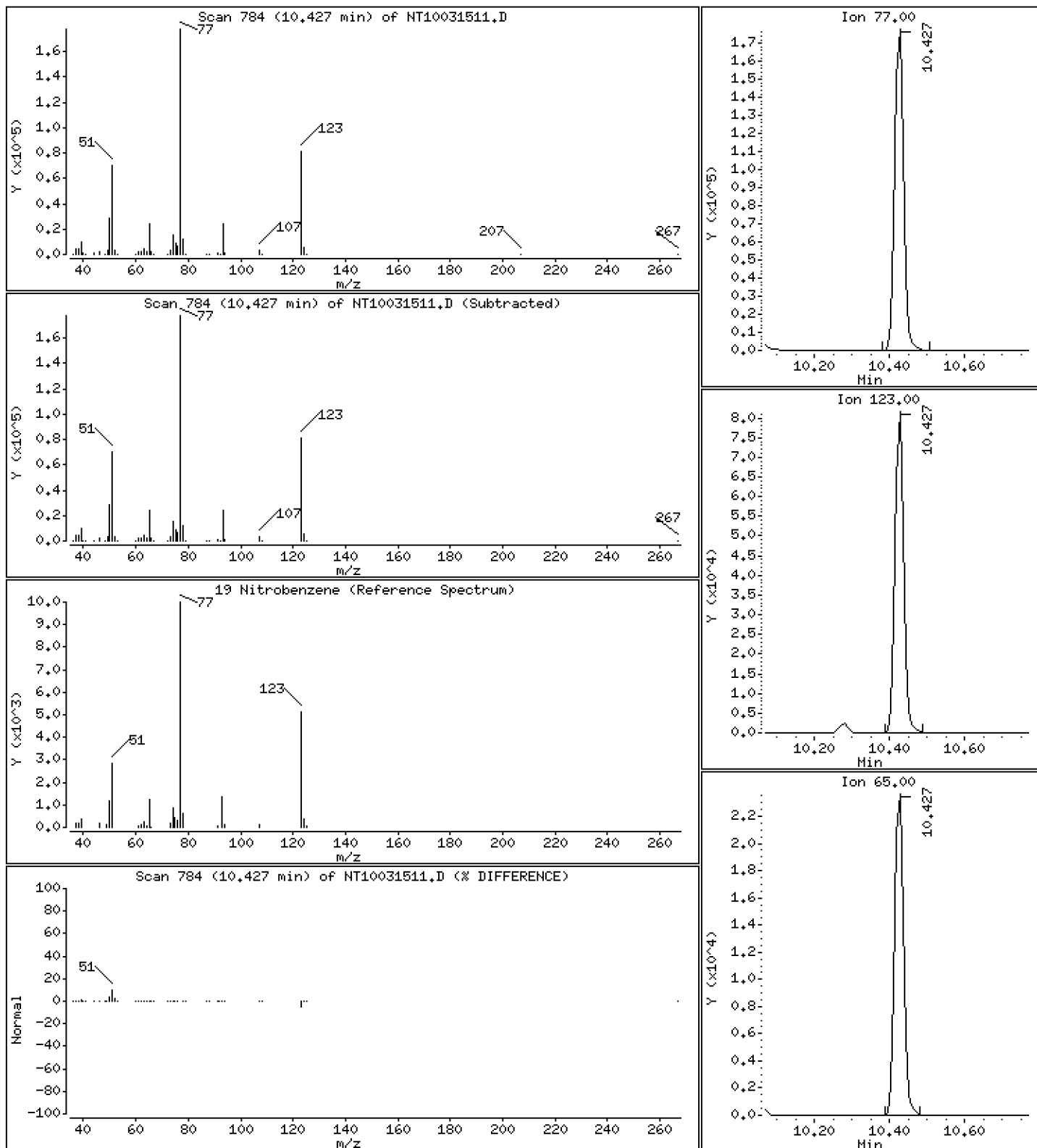
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,858 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

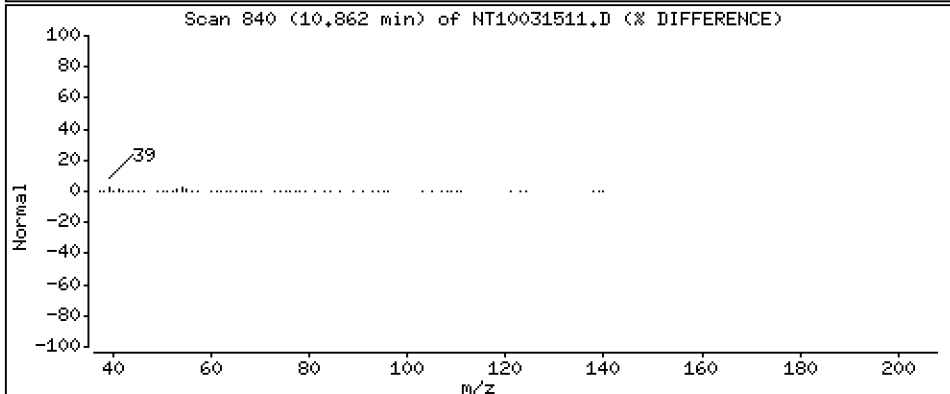
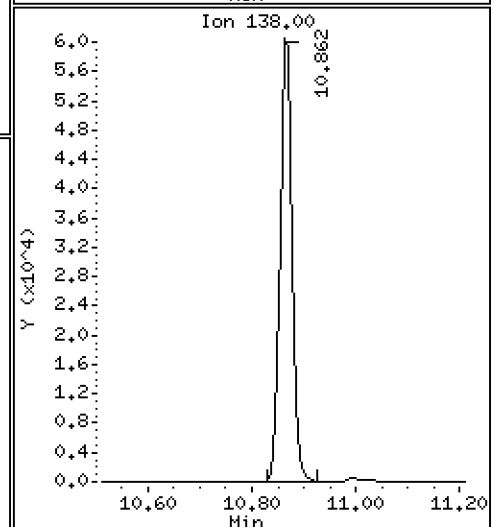
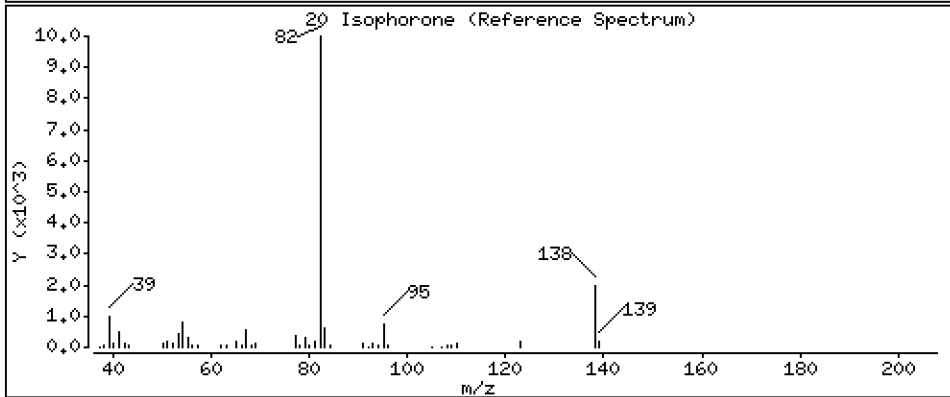
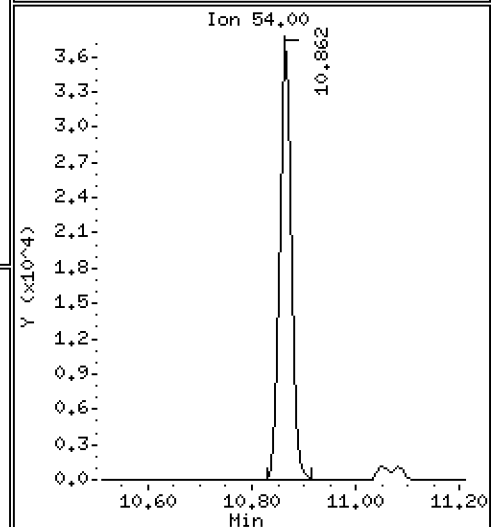
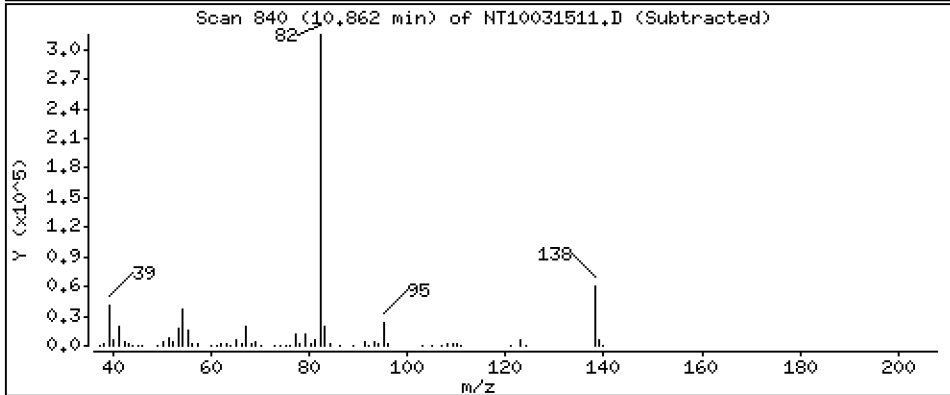
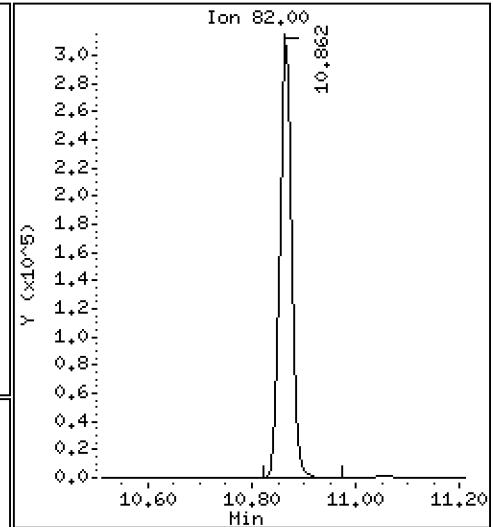
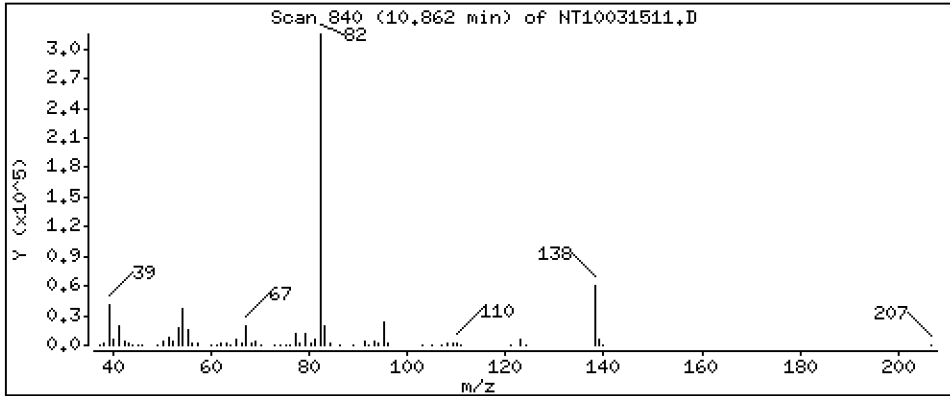
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 7,696 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

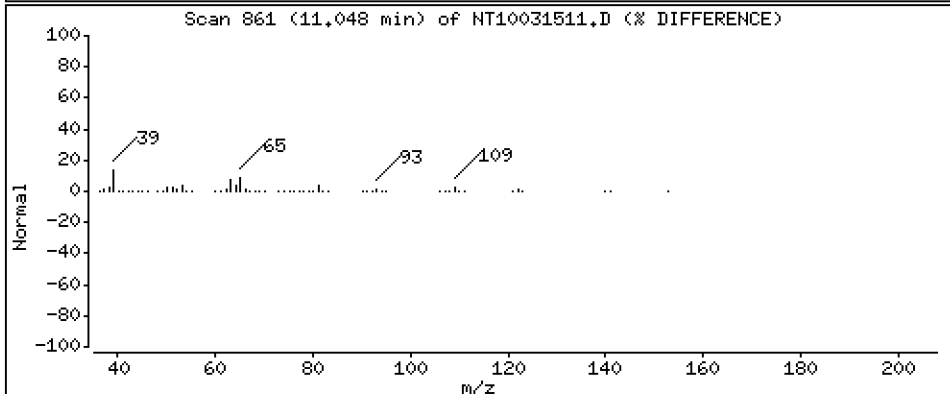
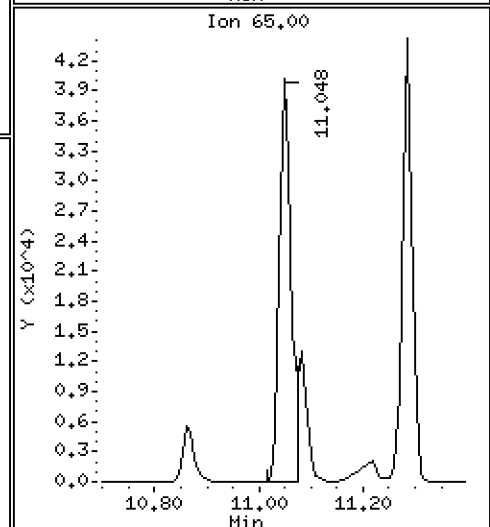
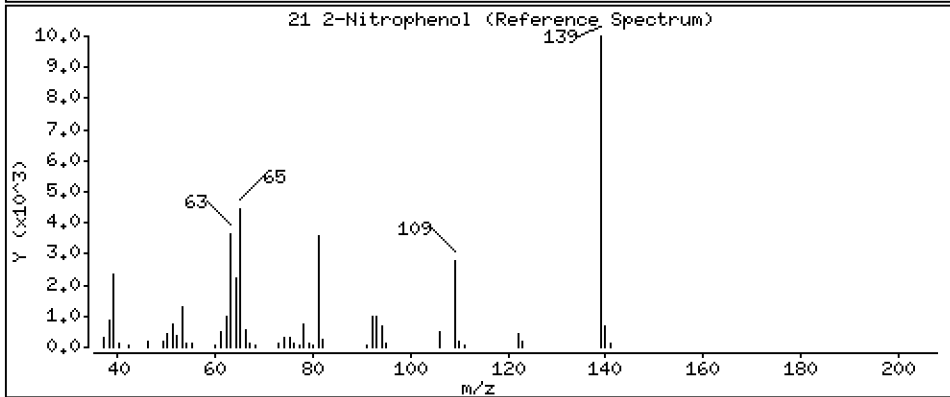
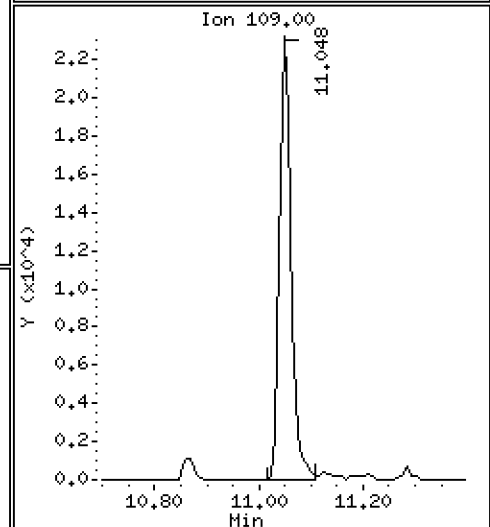
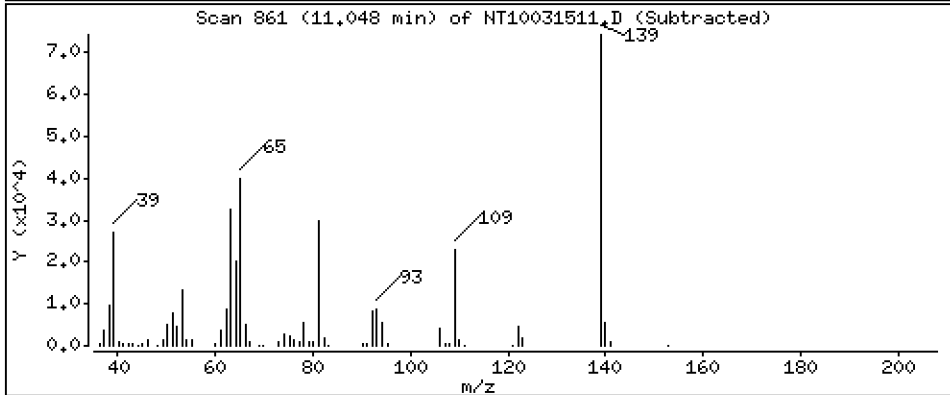
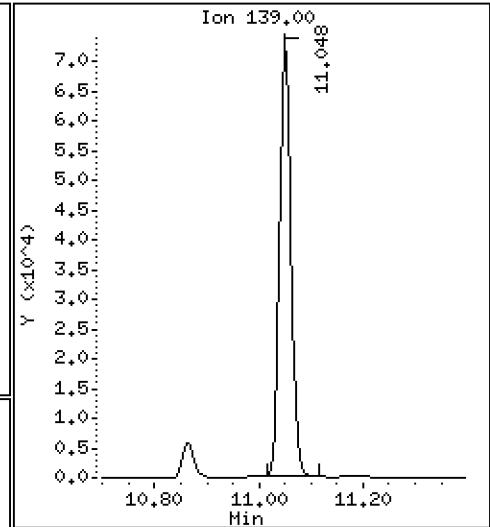
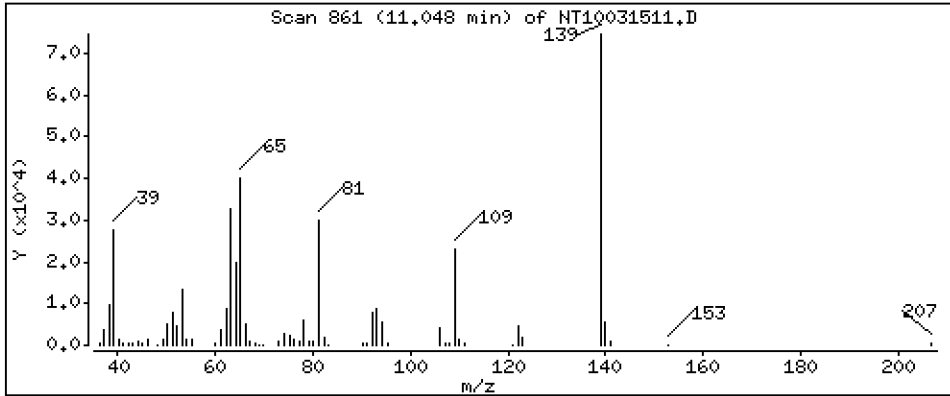
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 3,995 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

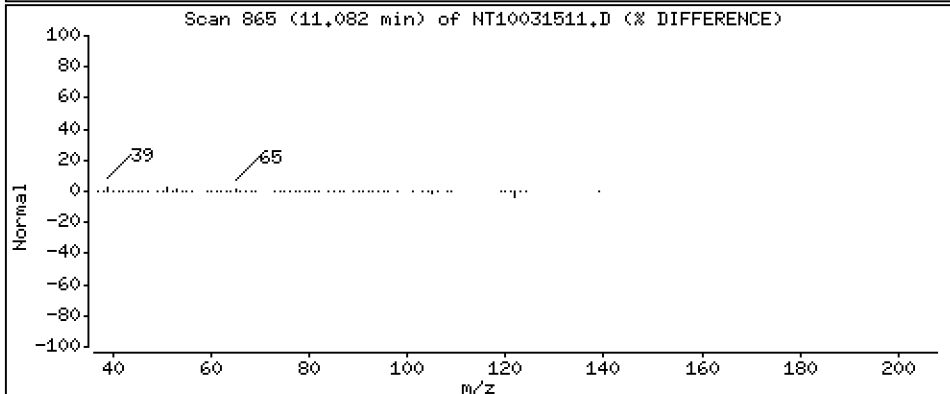
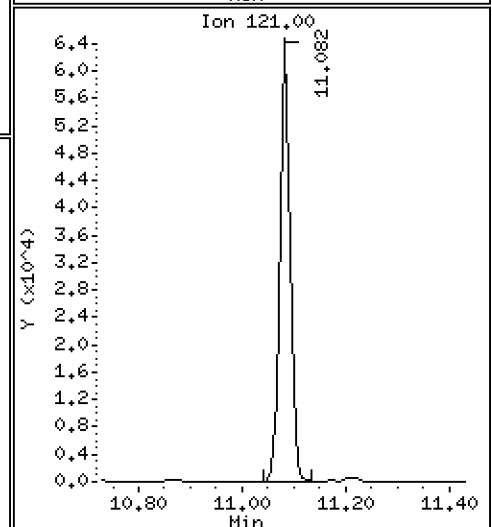
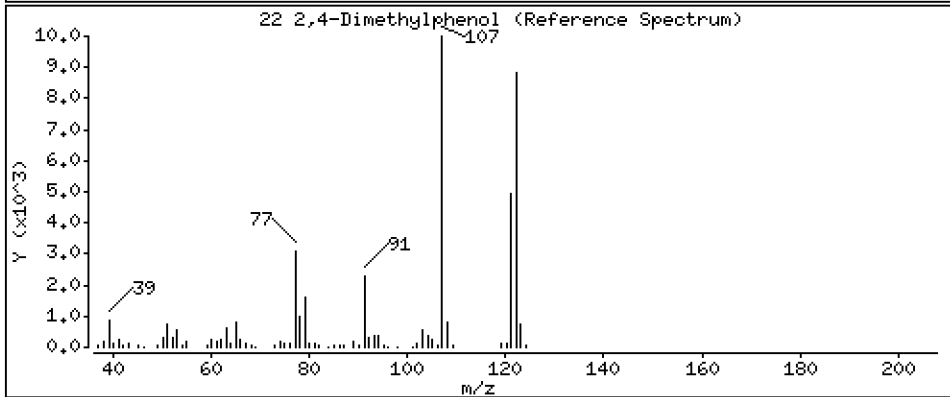
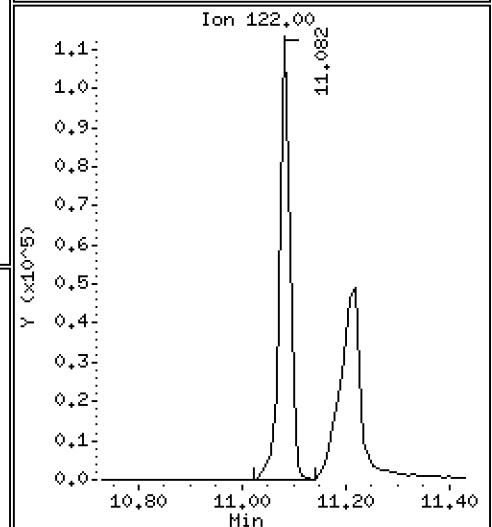
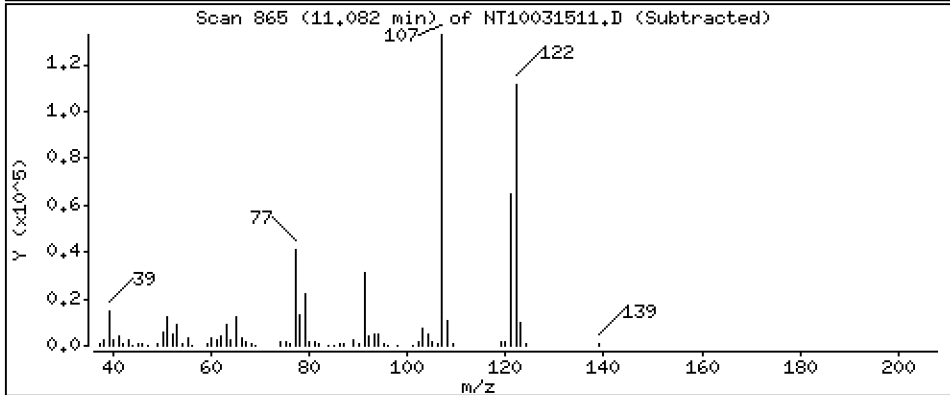
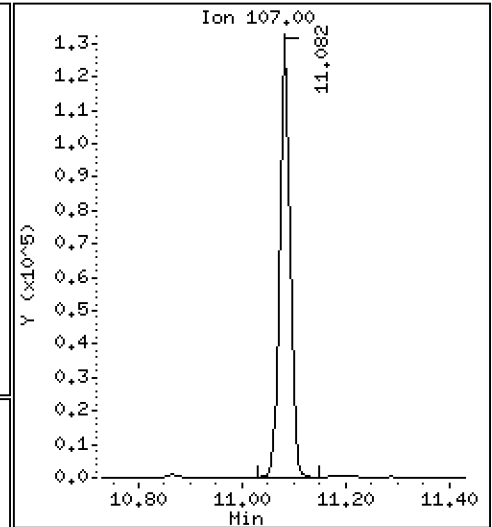
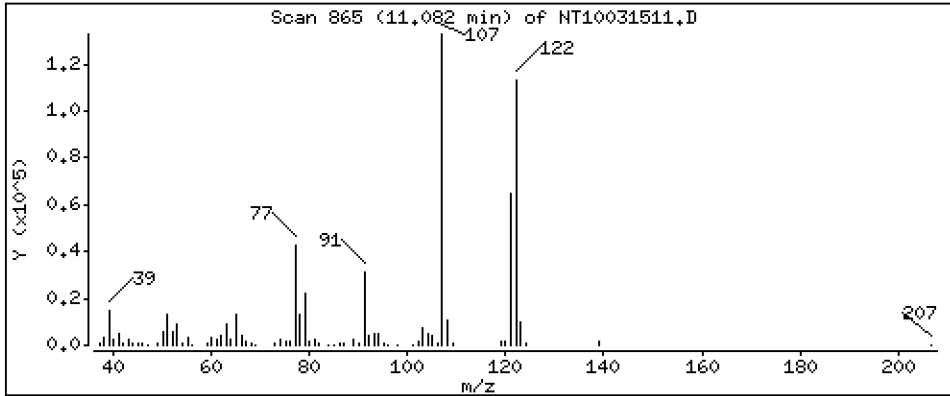
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 3,632 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

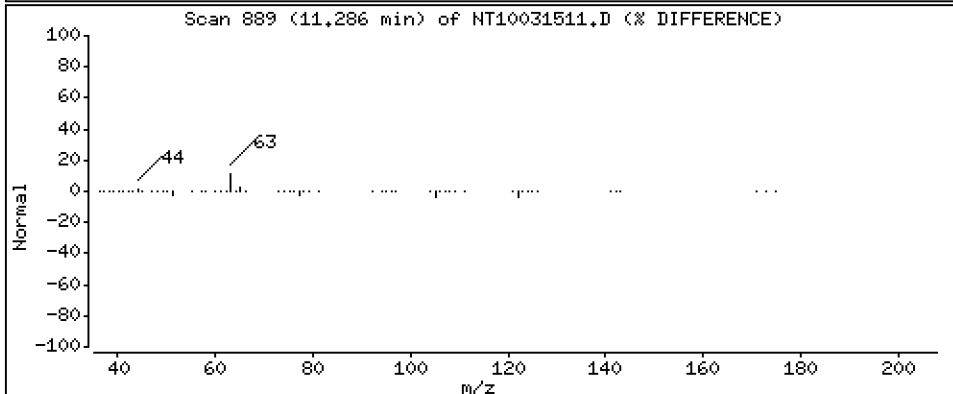
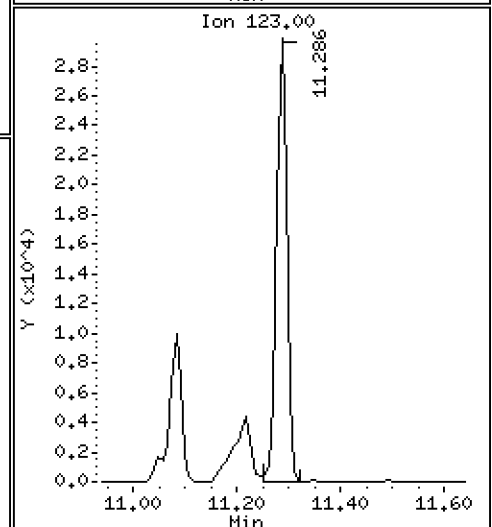
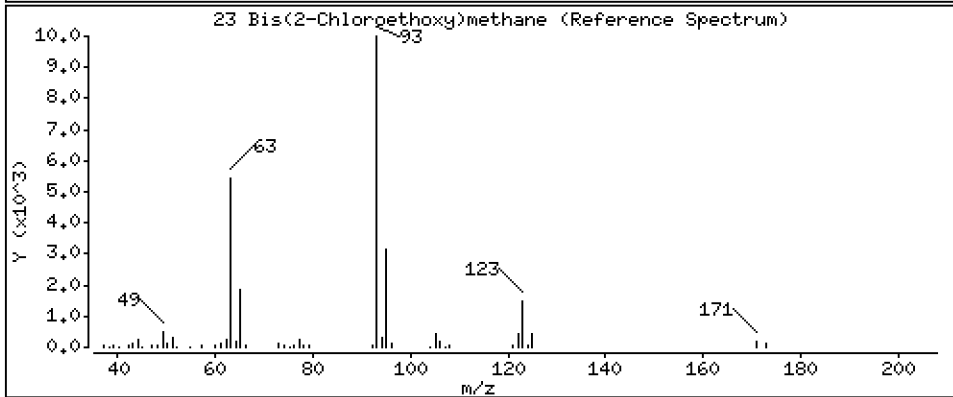
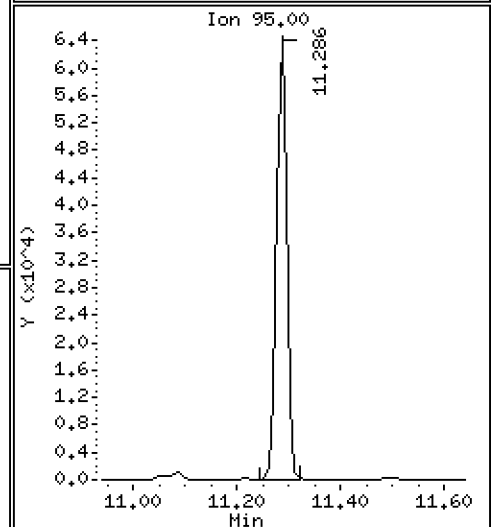
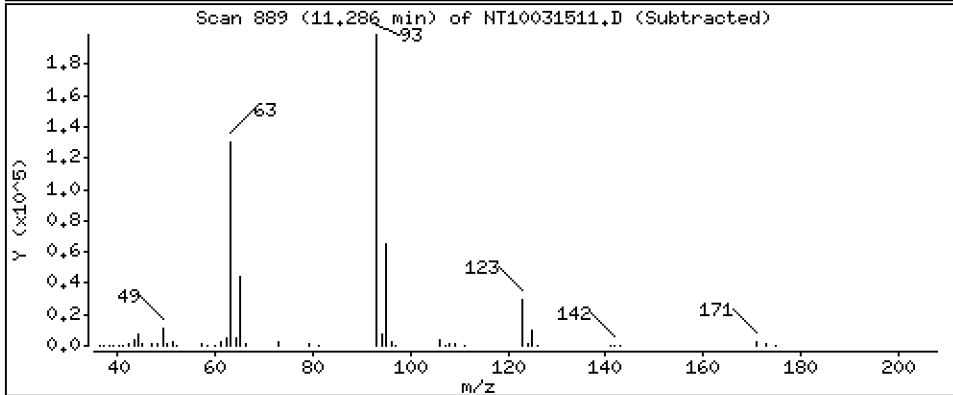
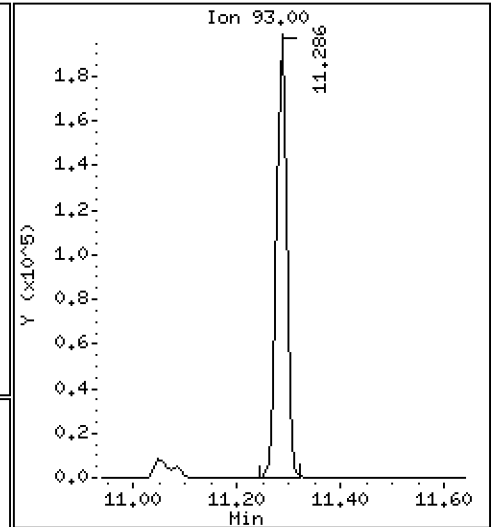
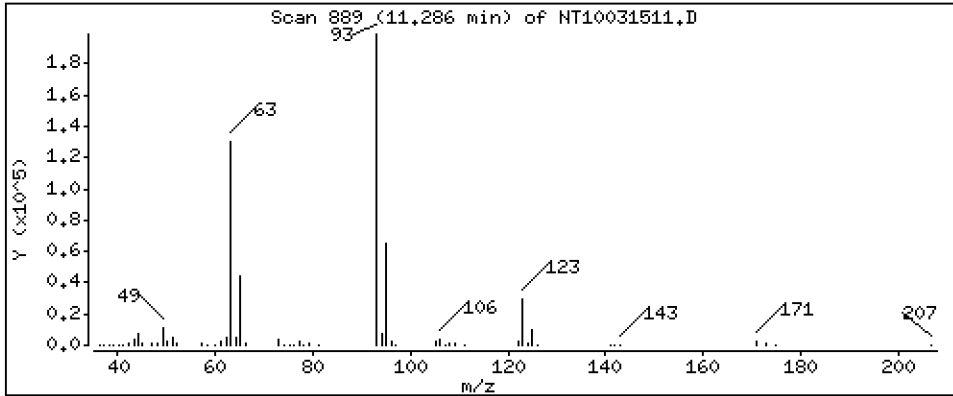
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,654 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

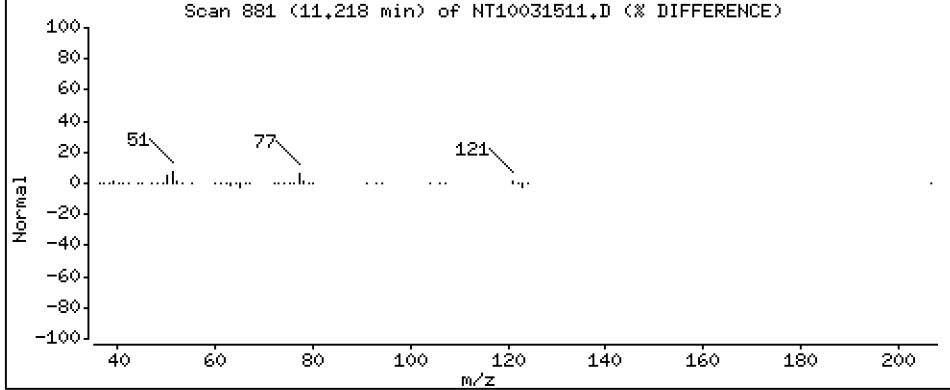
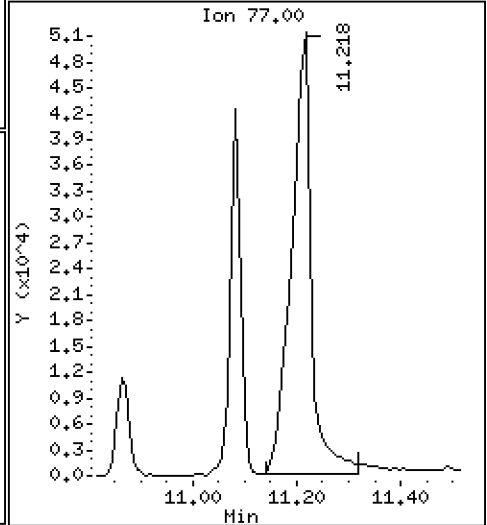
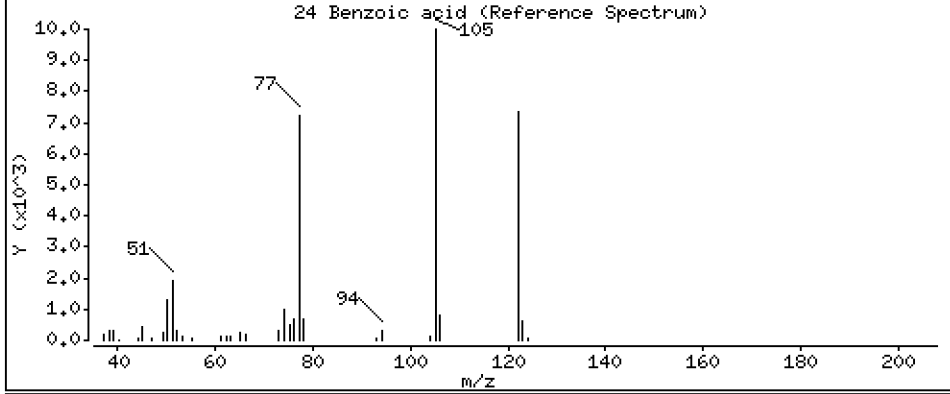
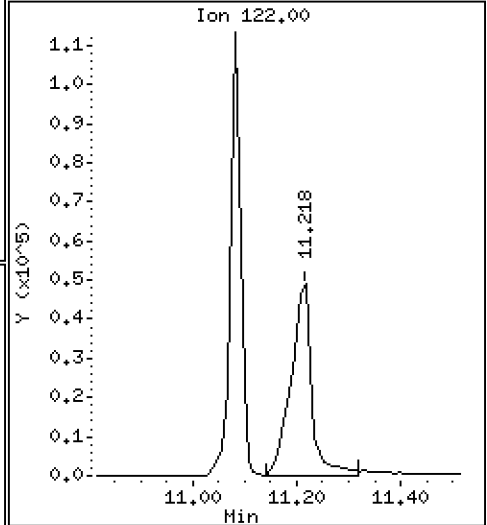
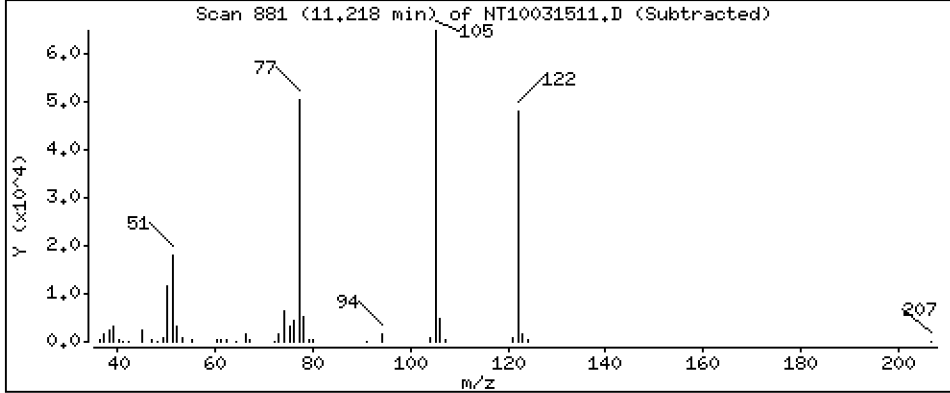
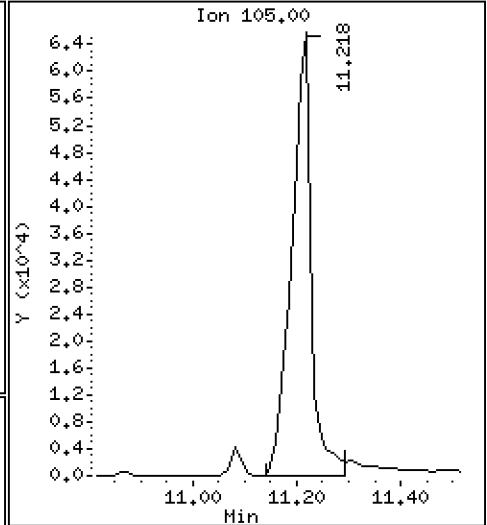
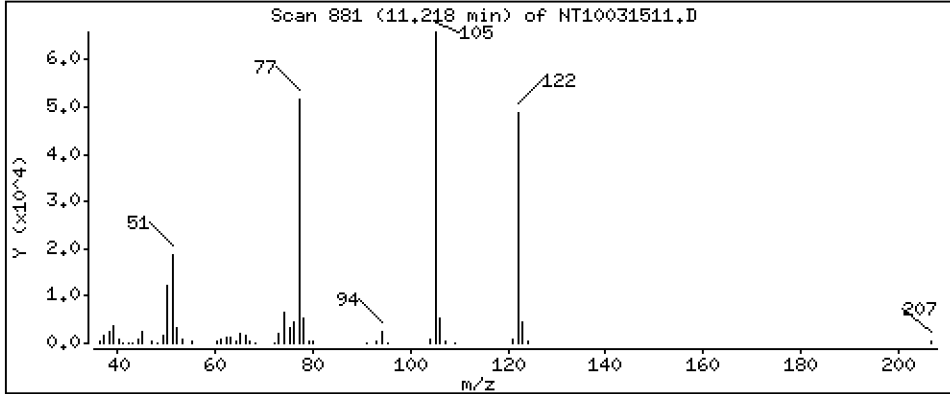
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 5,952 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

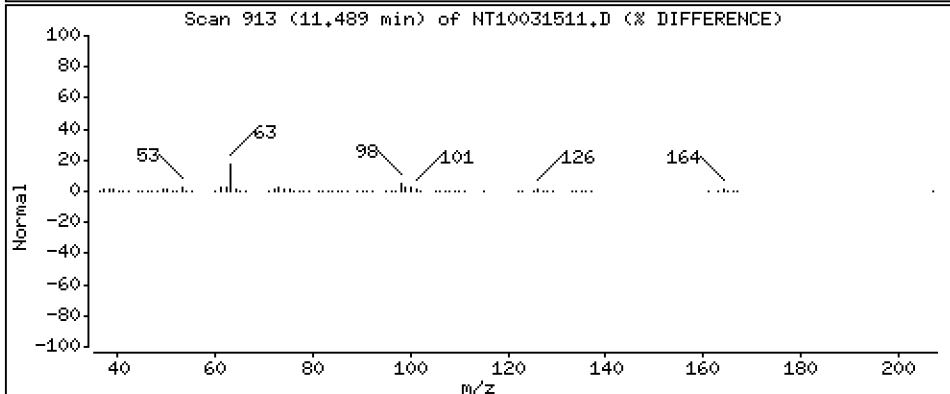
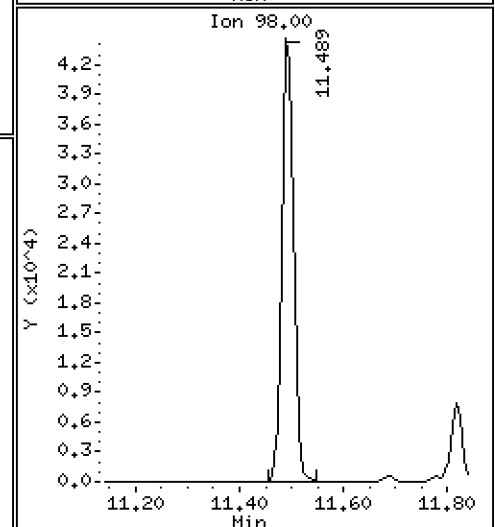
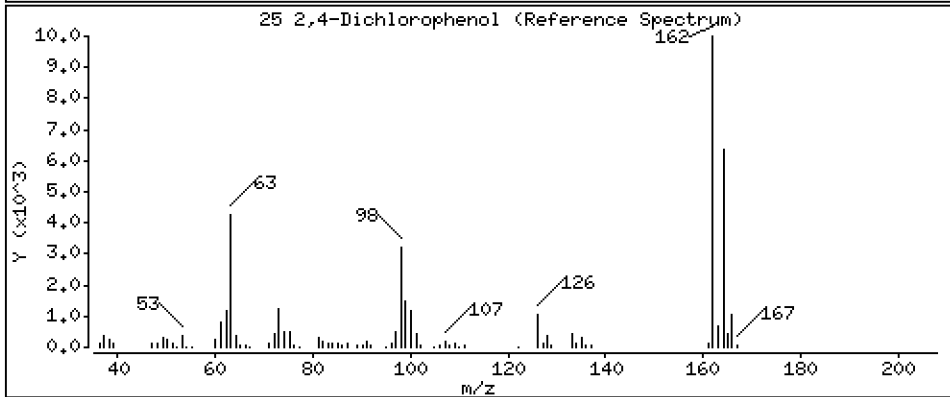
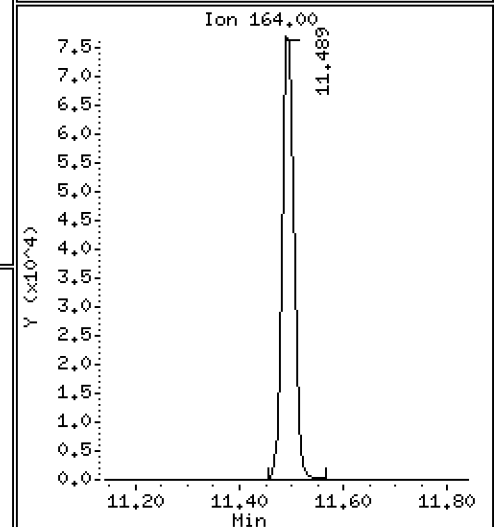
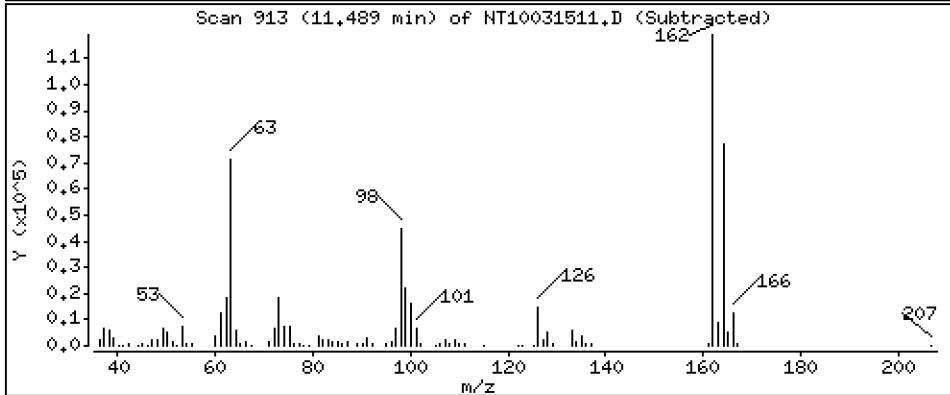
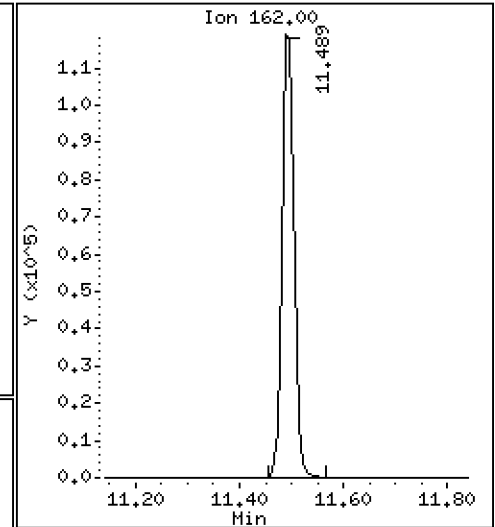
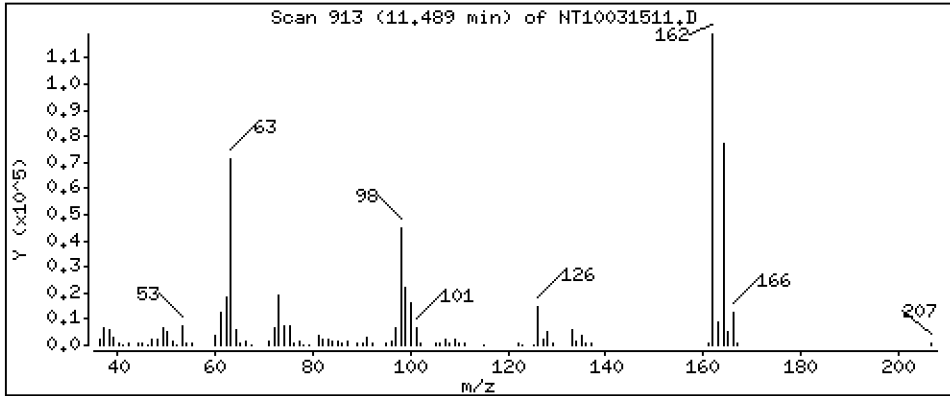
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 4,703 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

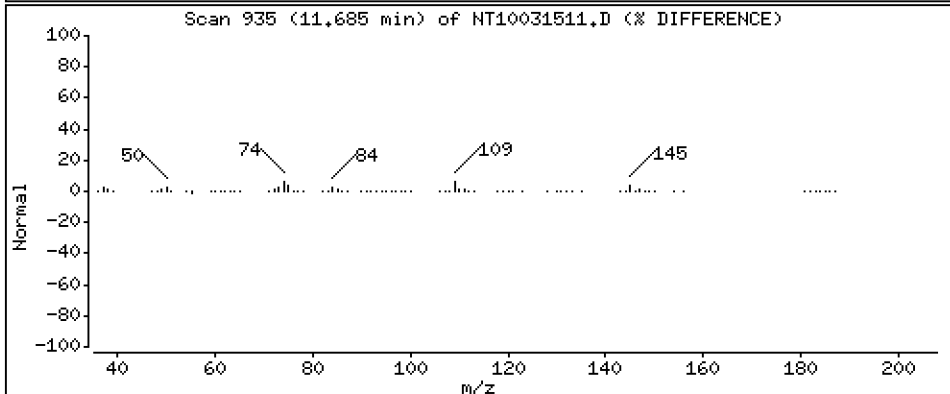
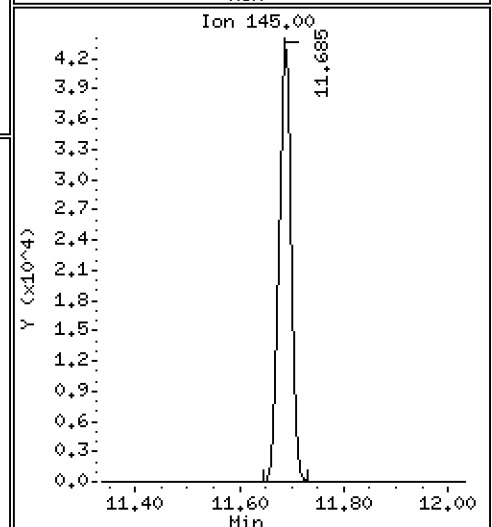
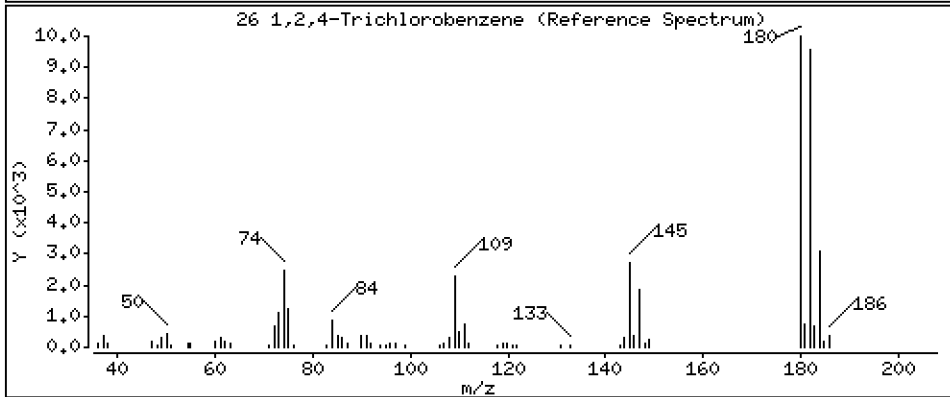
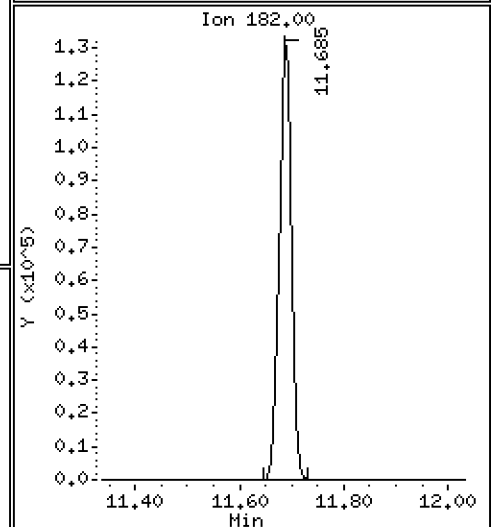
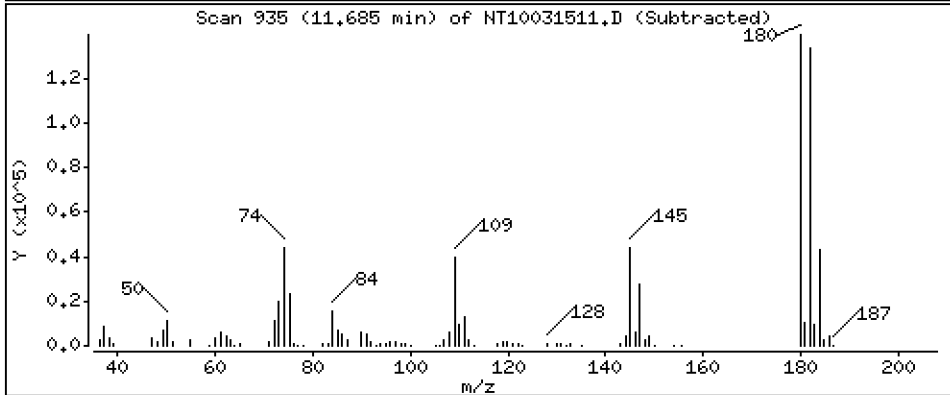
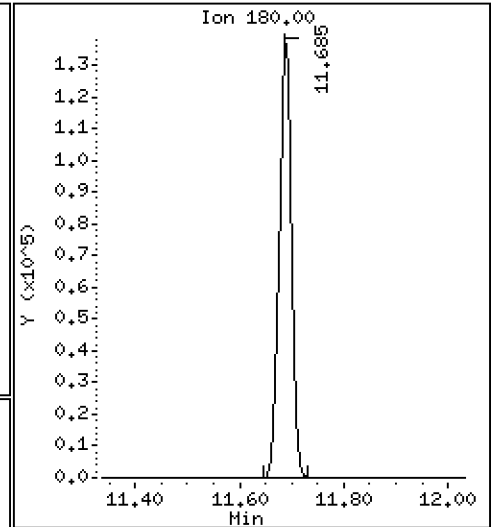
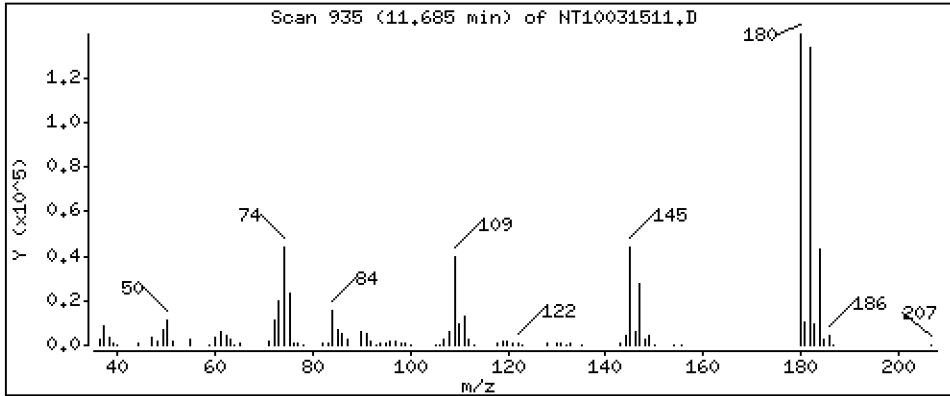
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,554 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

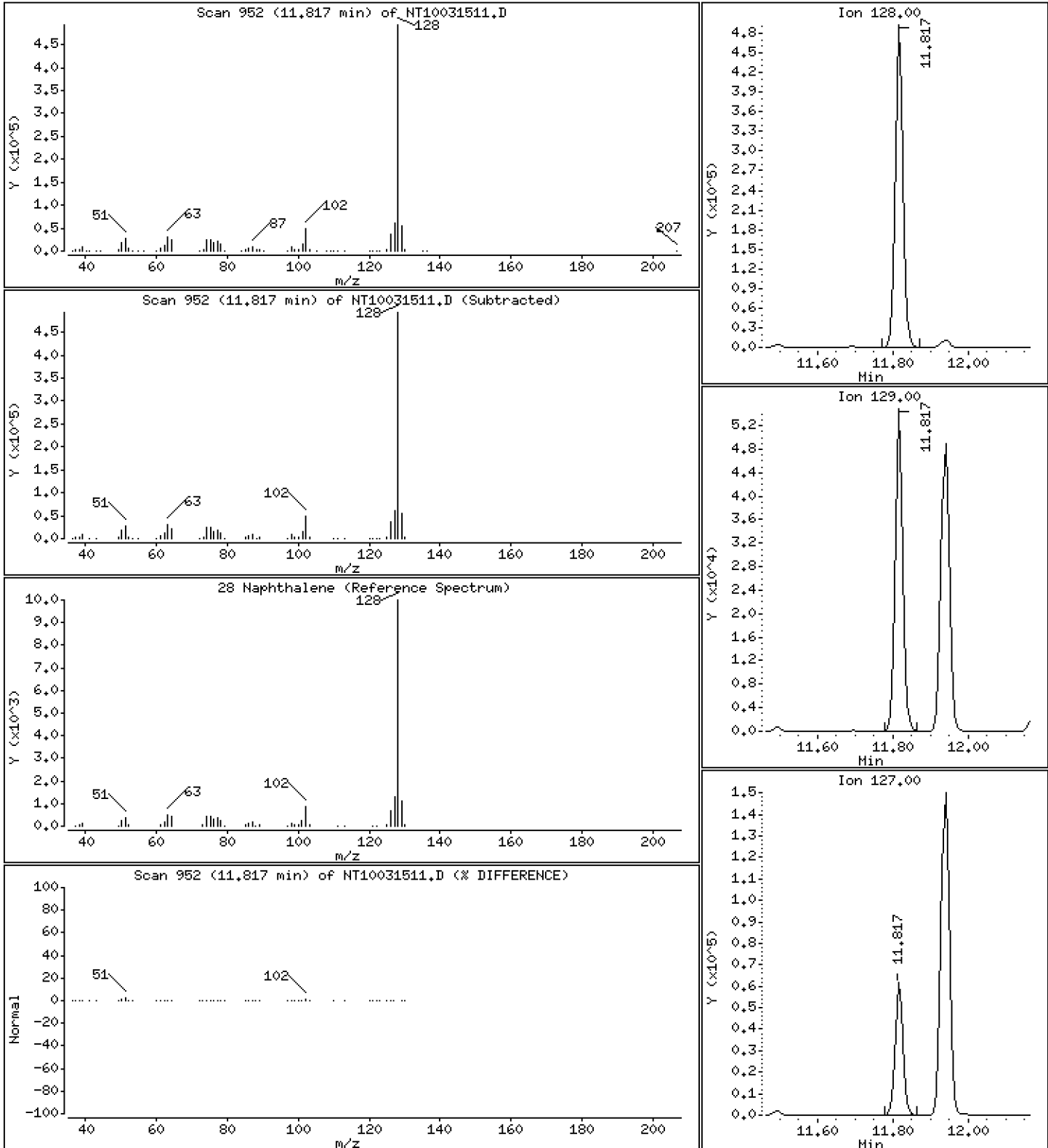
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,717 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

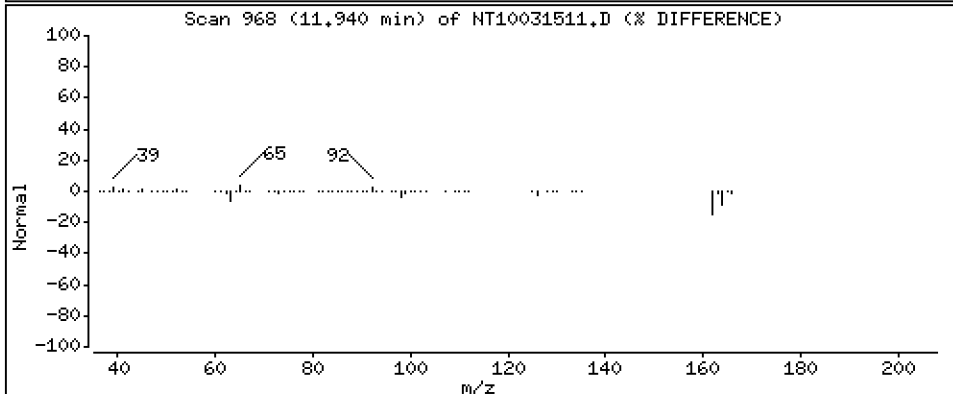
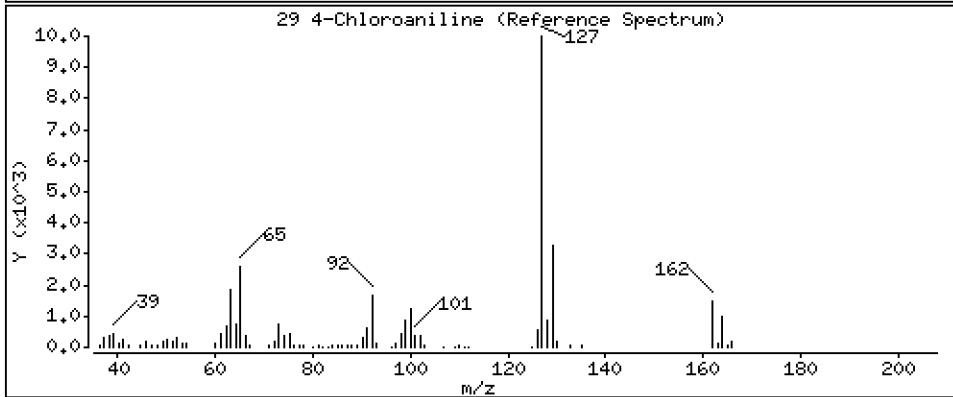
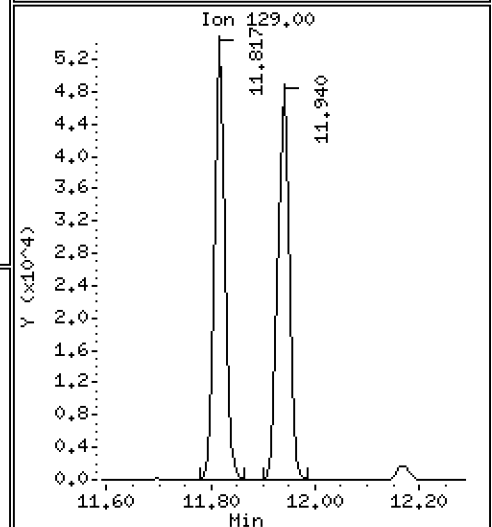
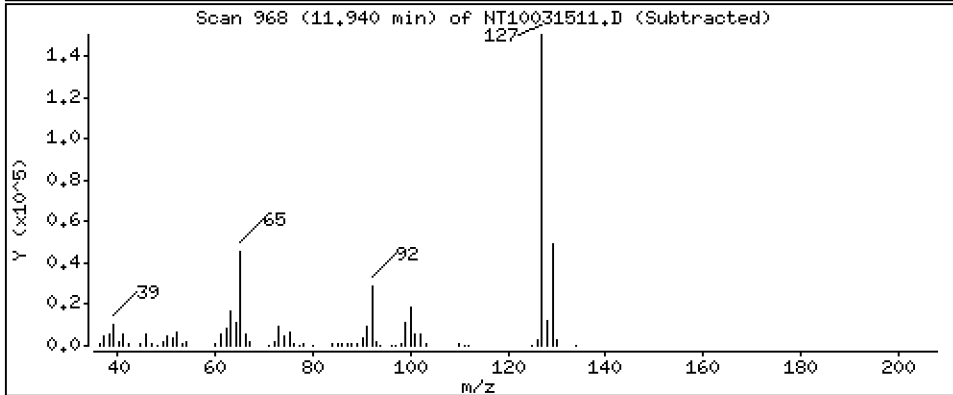
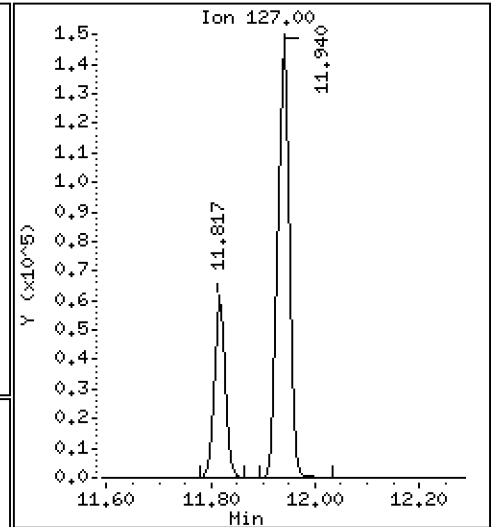
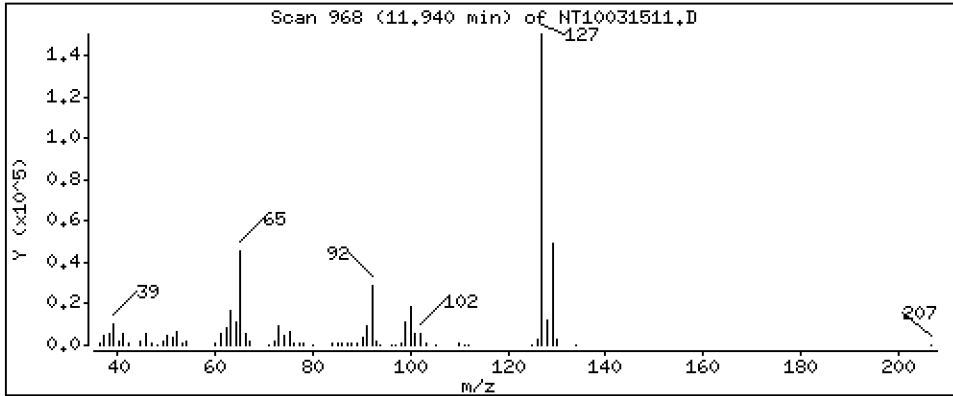
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 3,787 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

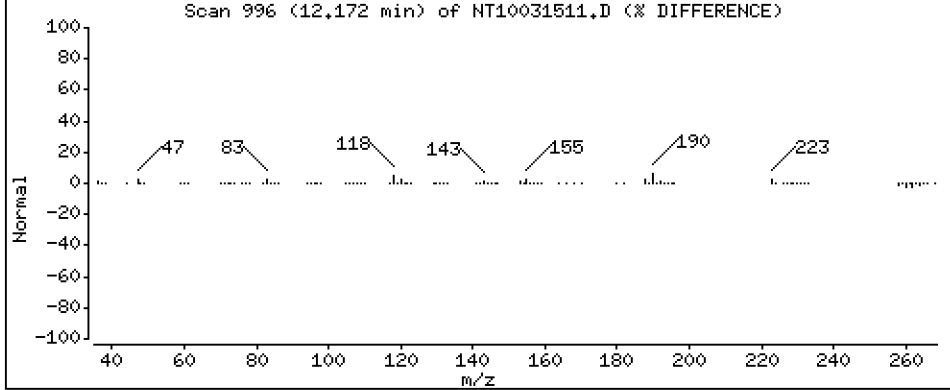
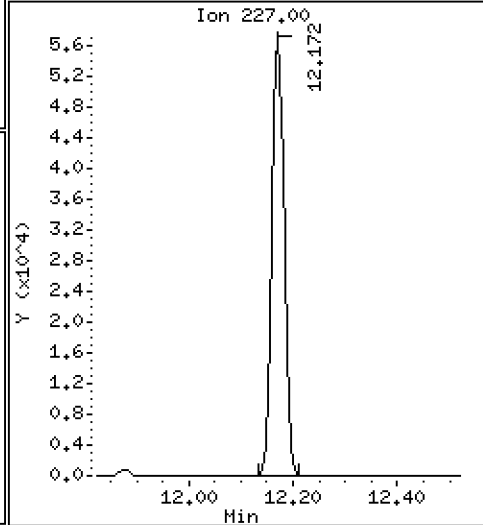
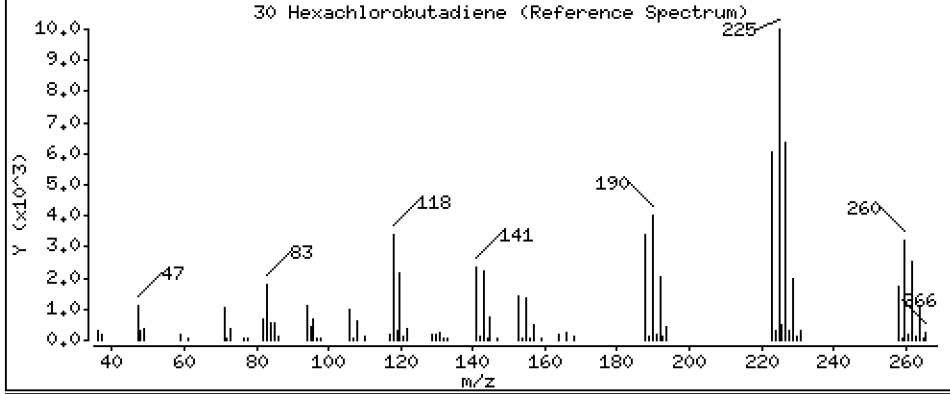
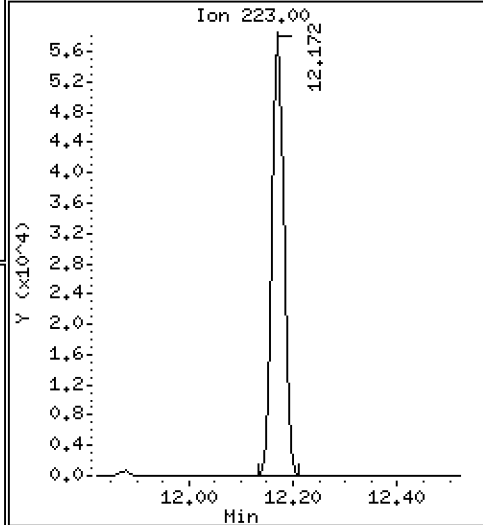
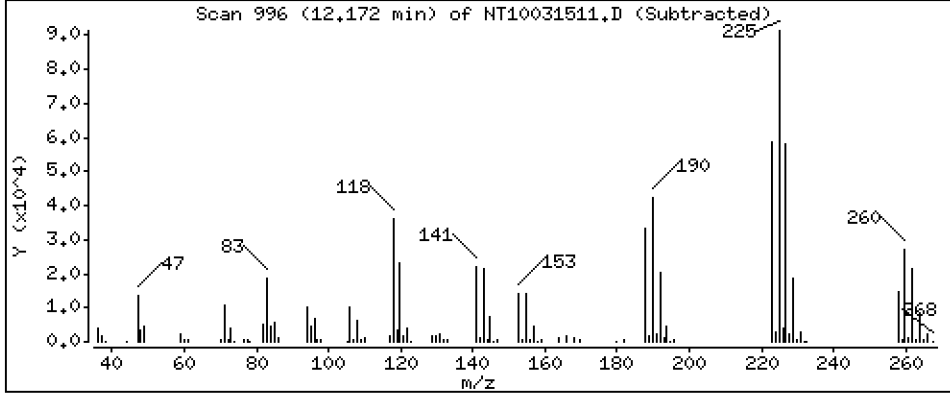
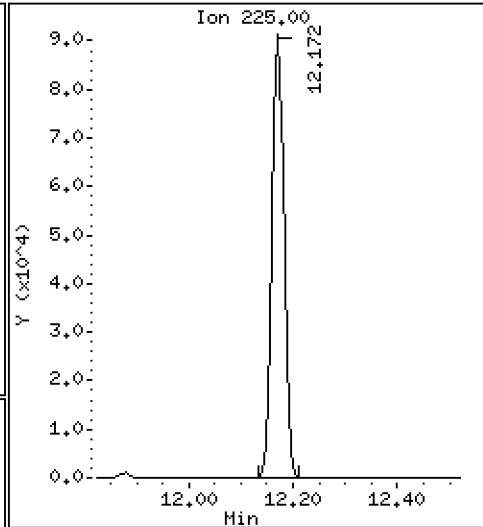
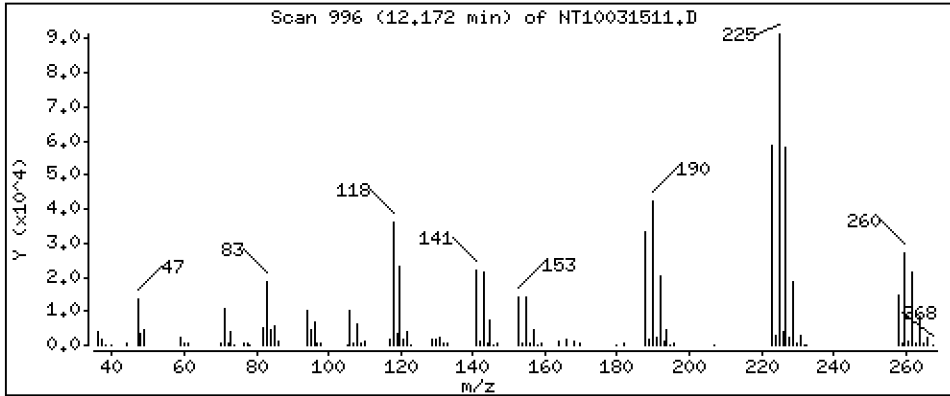
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,834 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

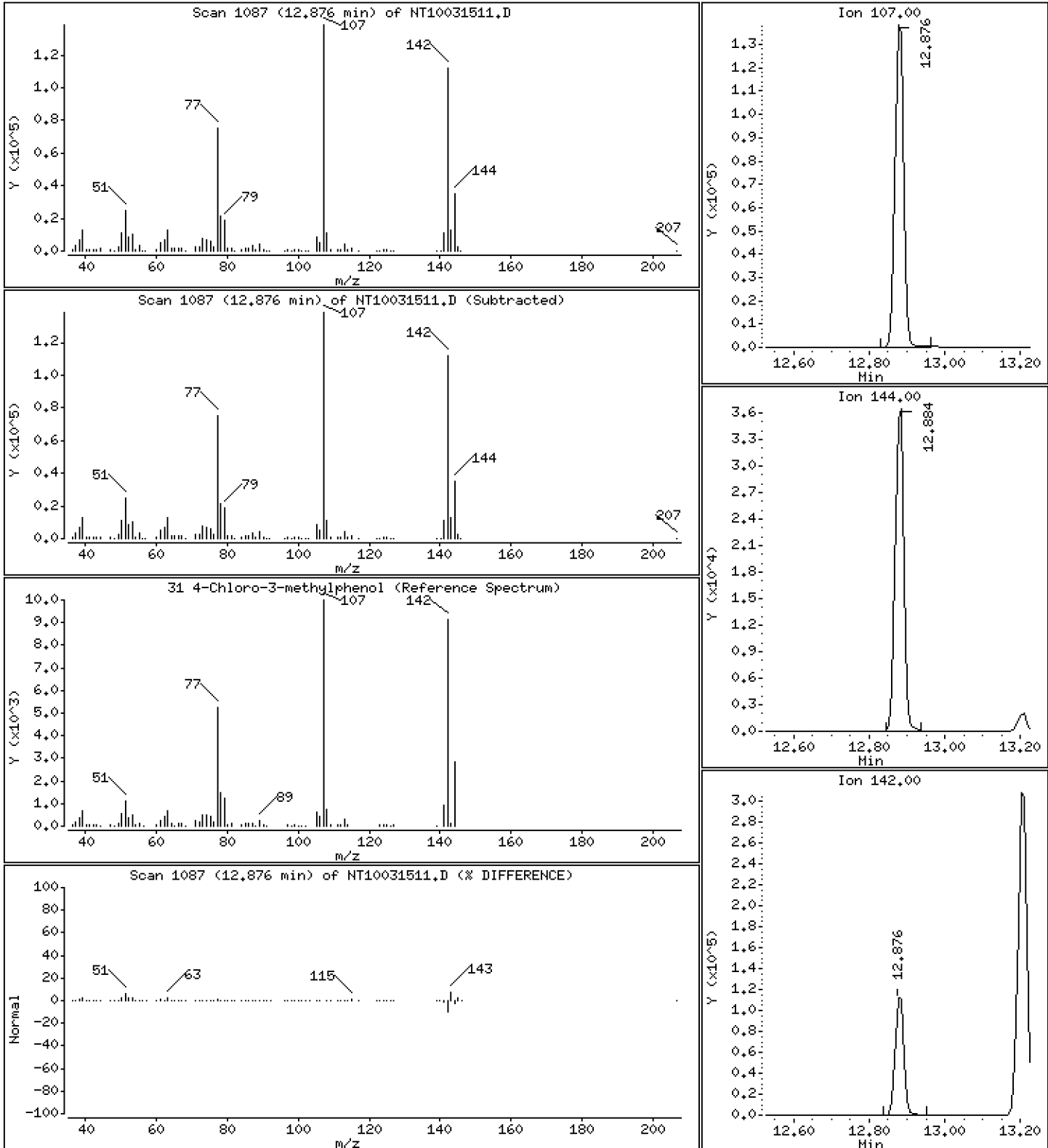
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 4,640 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

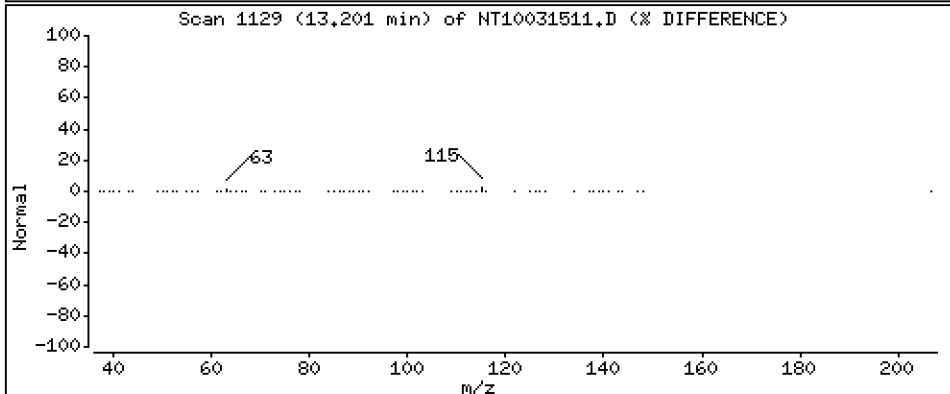
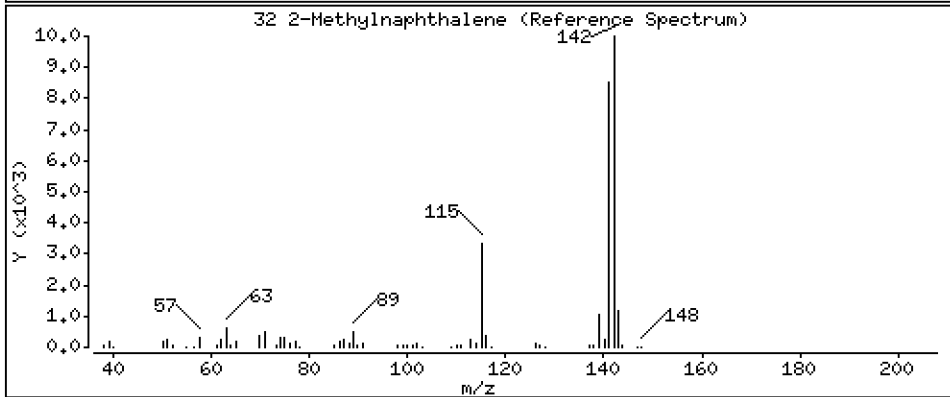
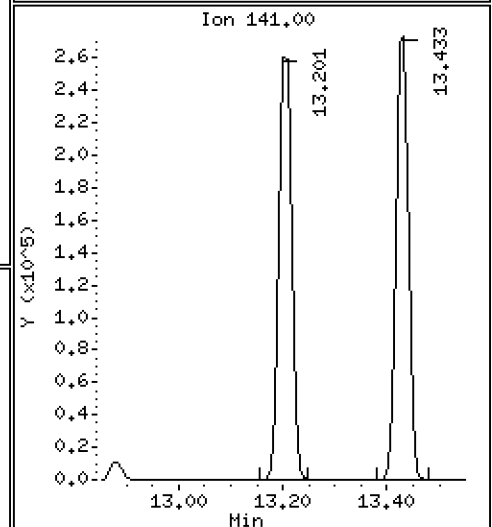
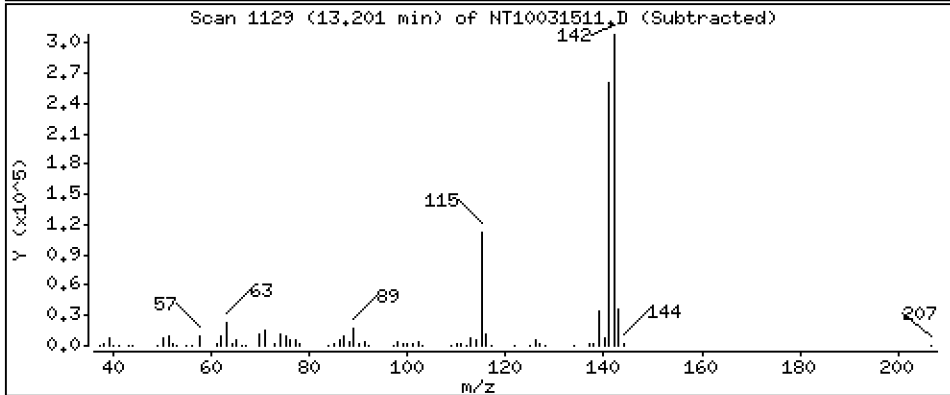
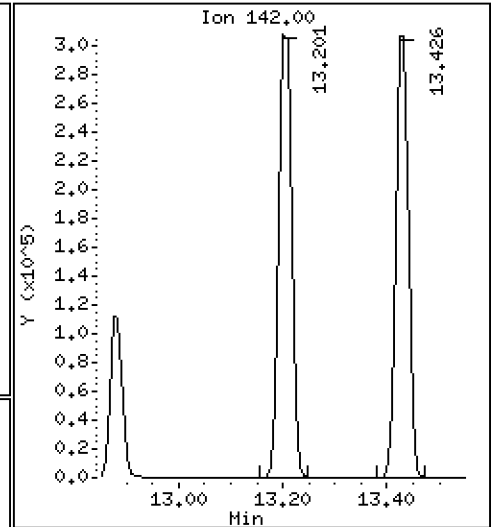
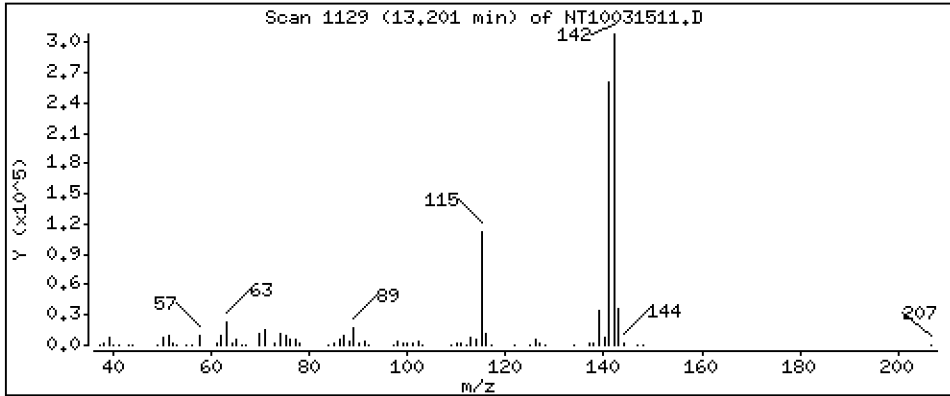
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,596 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

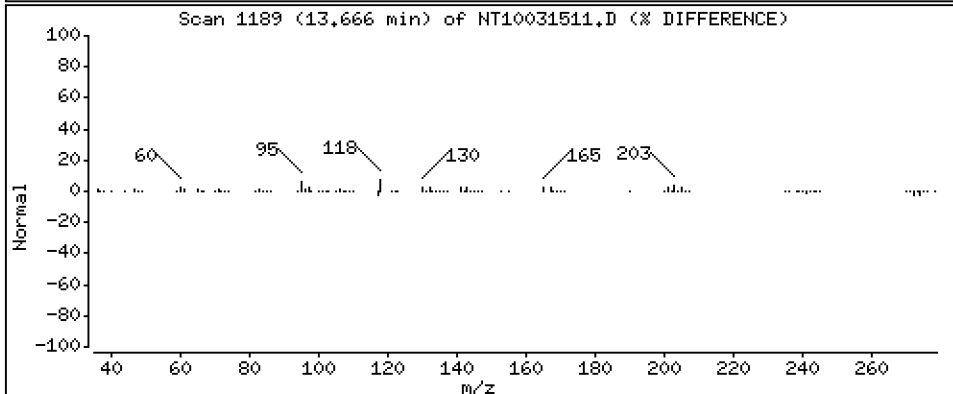
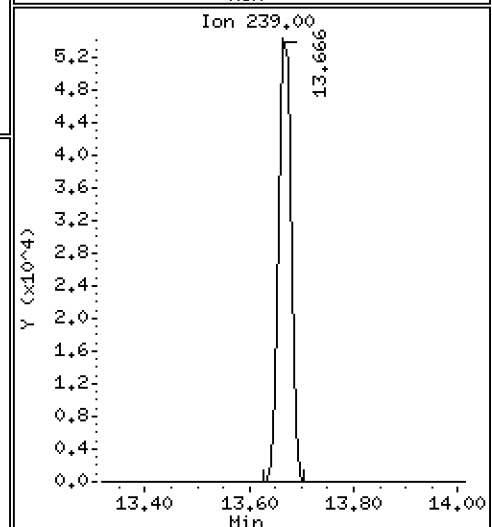
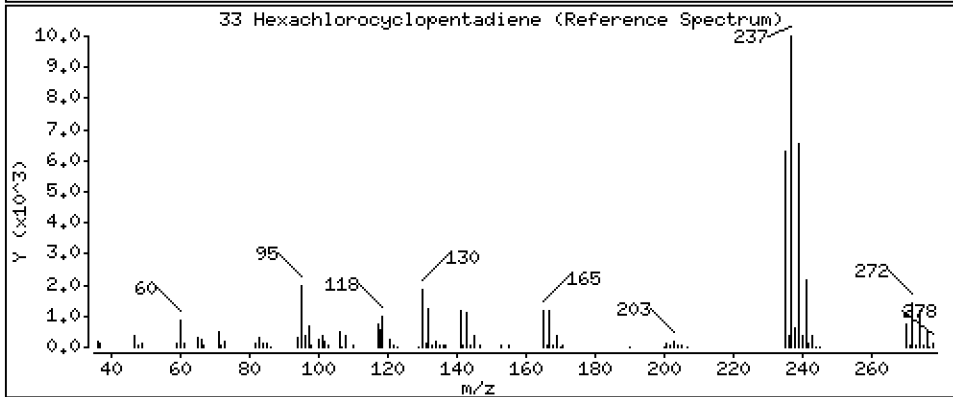
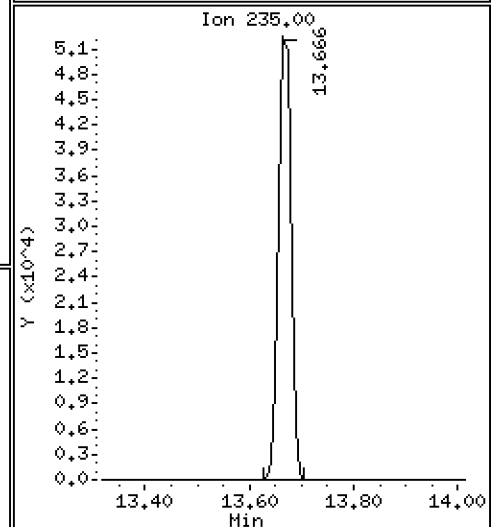
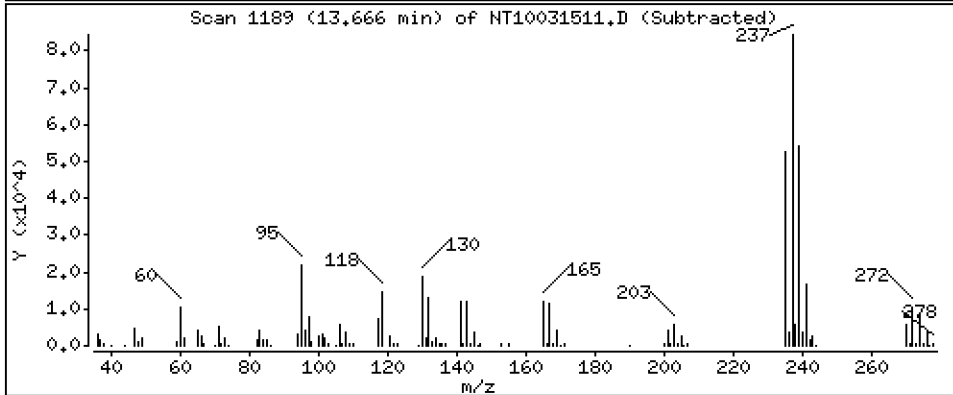
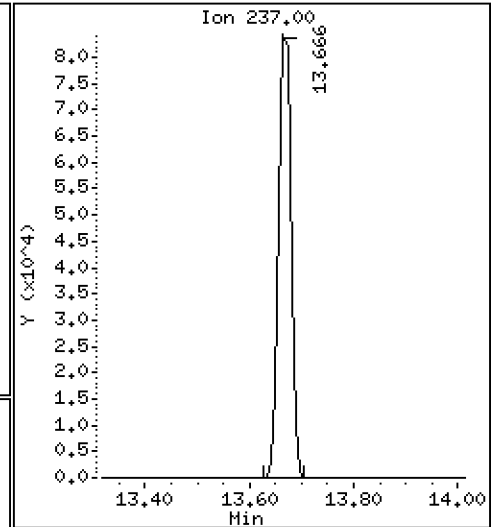
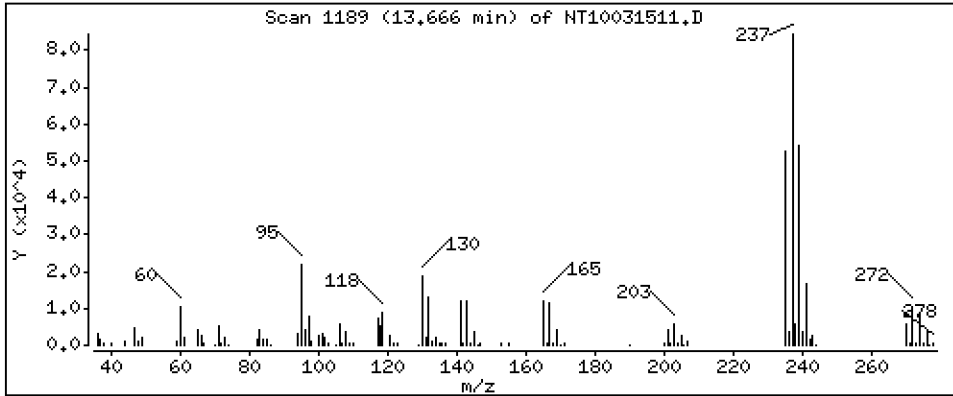
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

33 Hexachlorocyclopentadiene

Concentration: 4.729 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

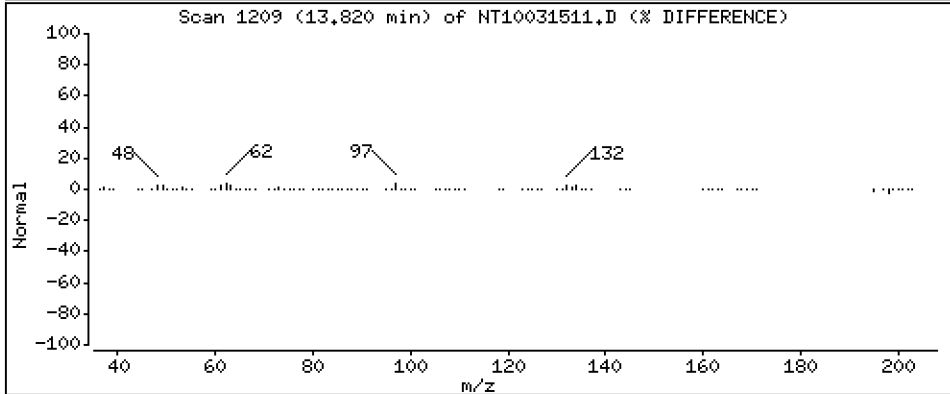
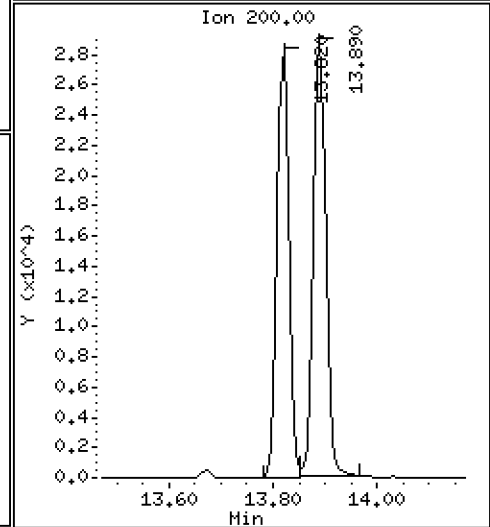
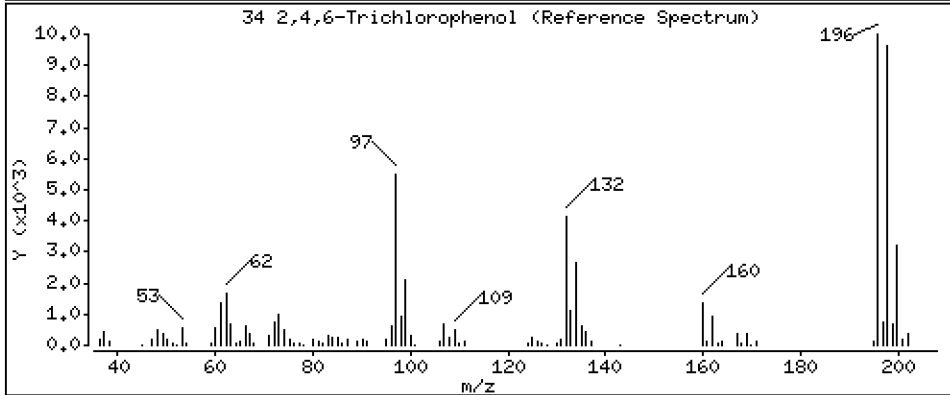
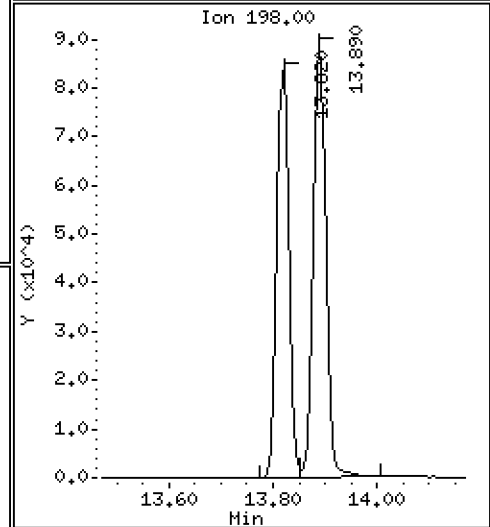
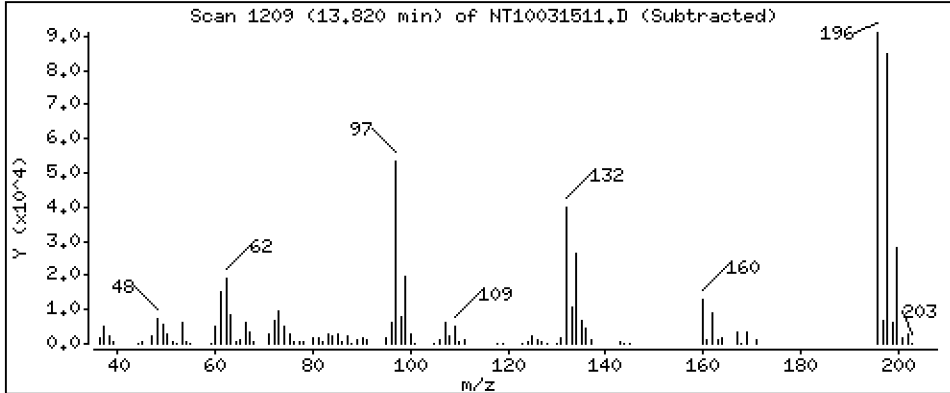
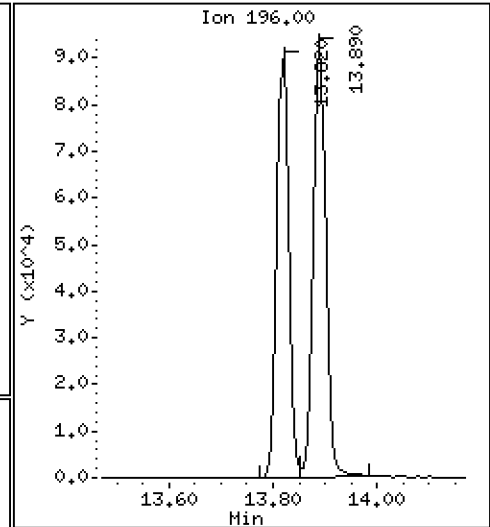
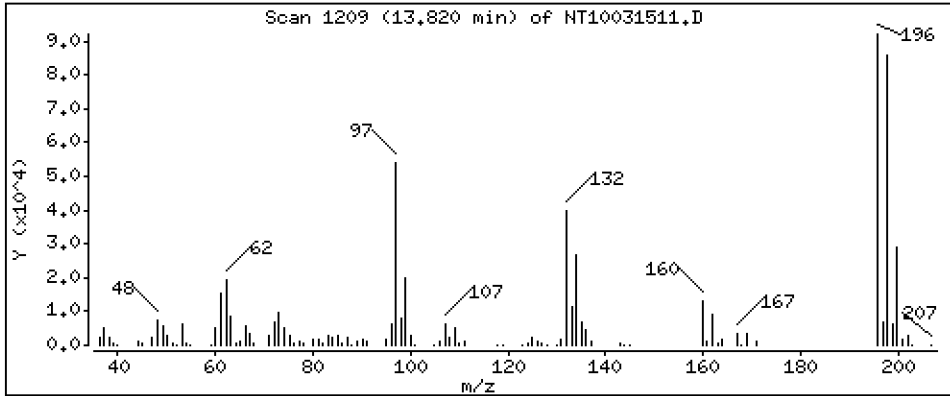
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 4,596 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

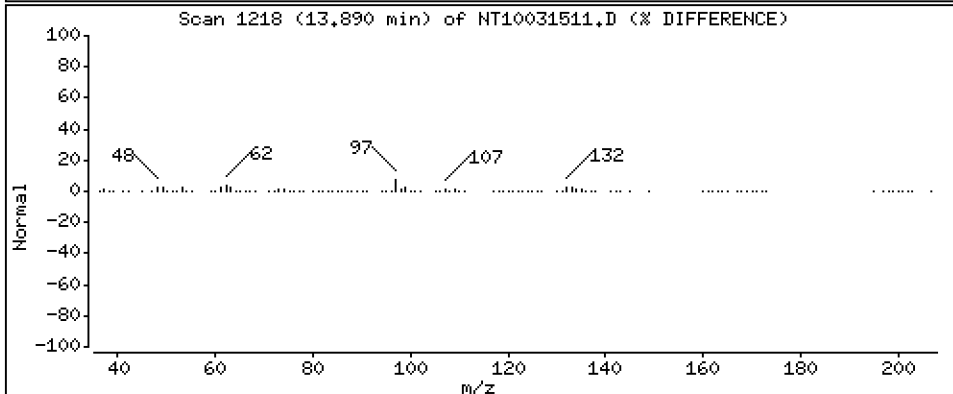
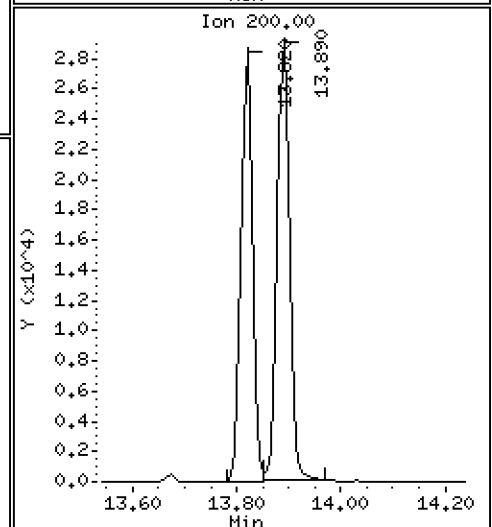
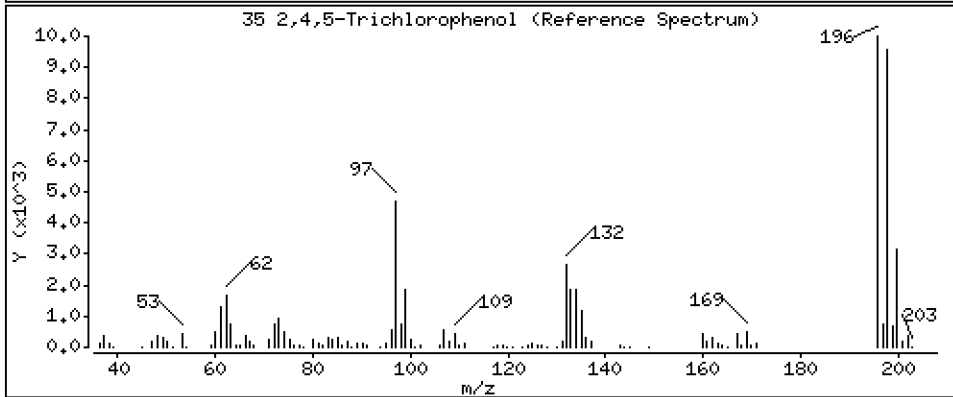
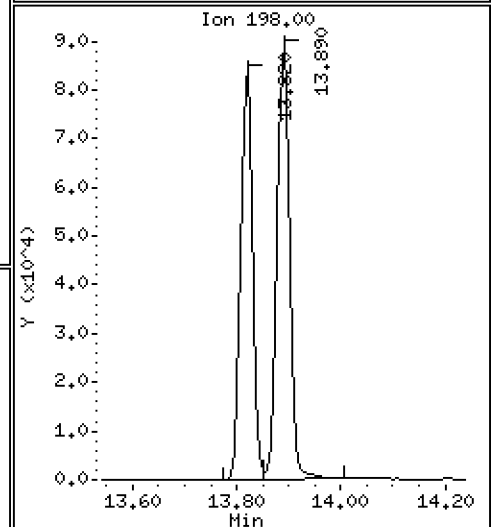
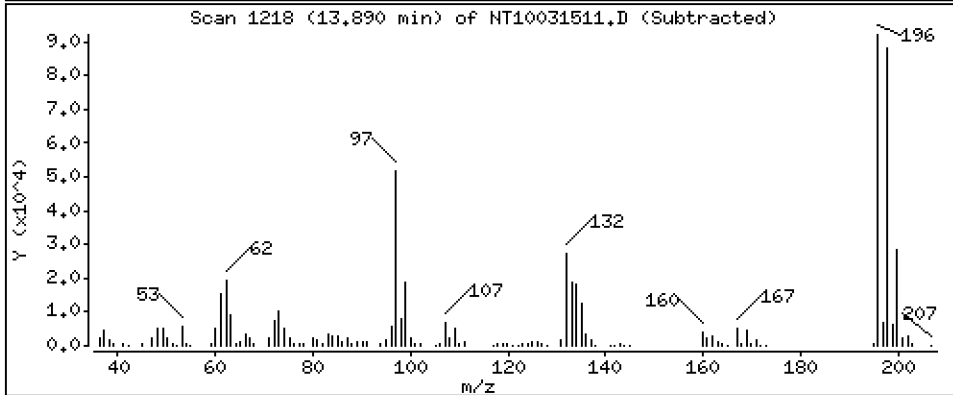
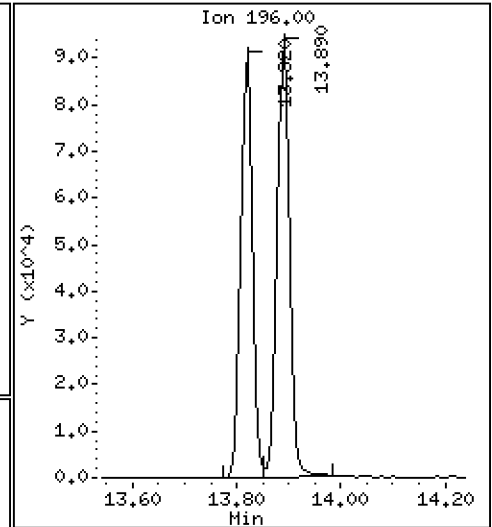
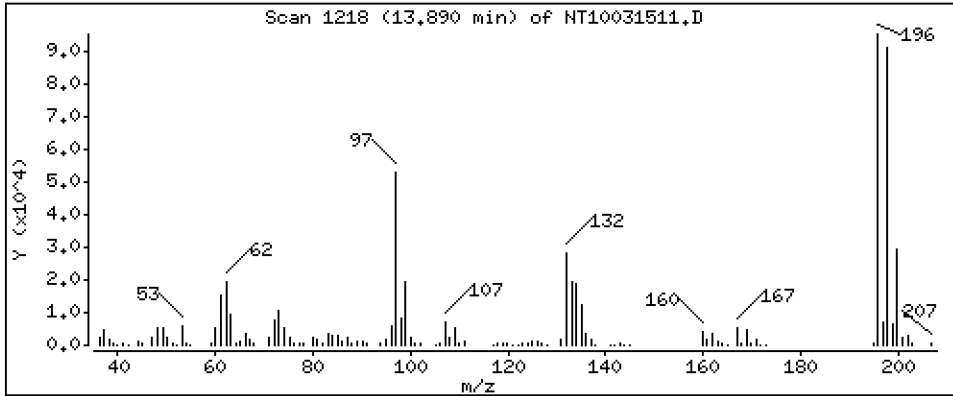
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 4,409 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

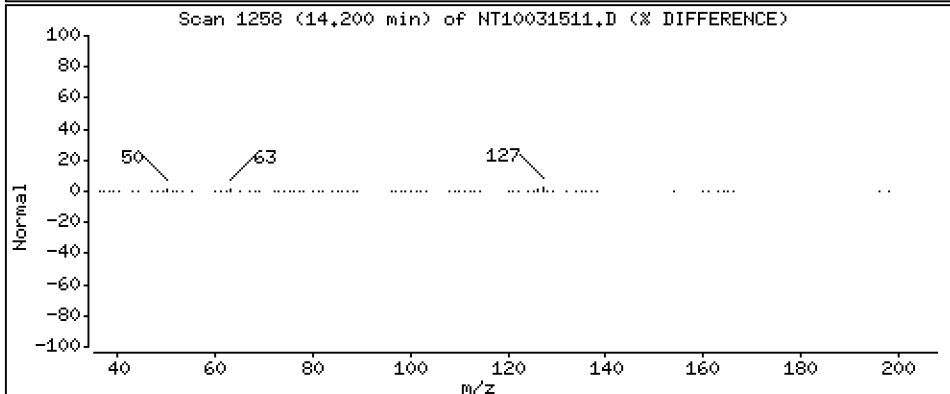
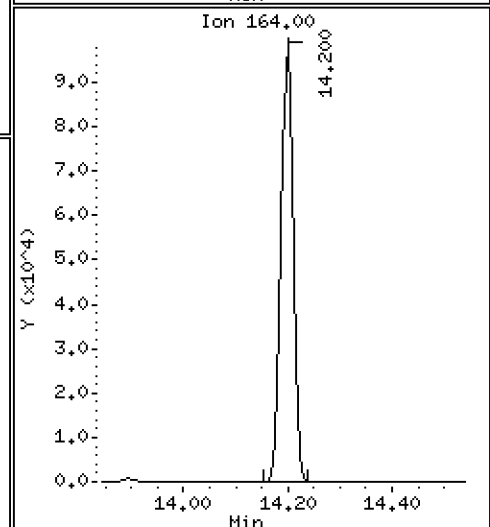
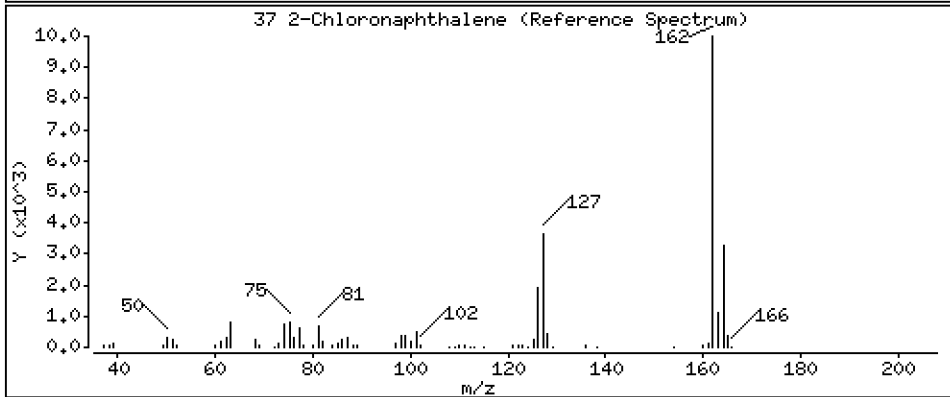
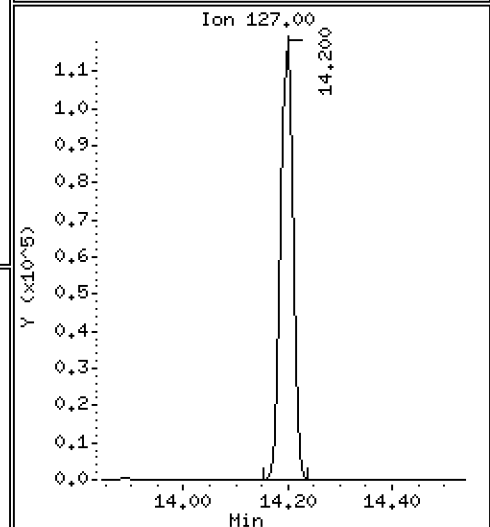
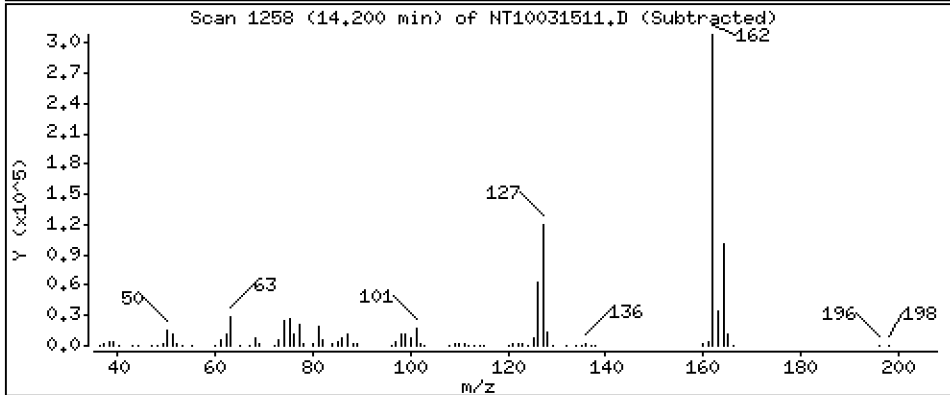
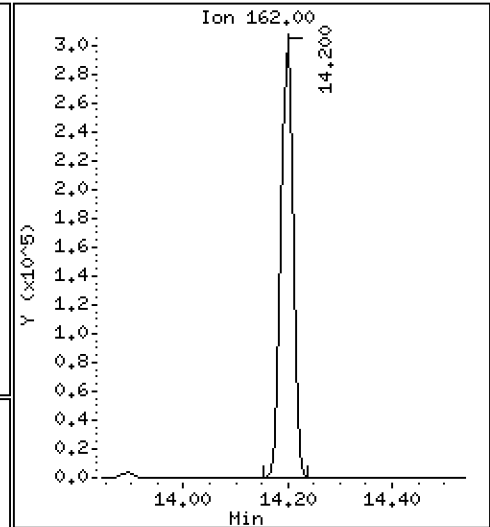
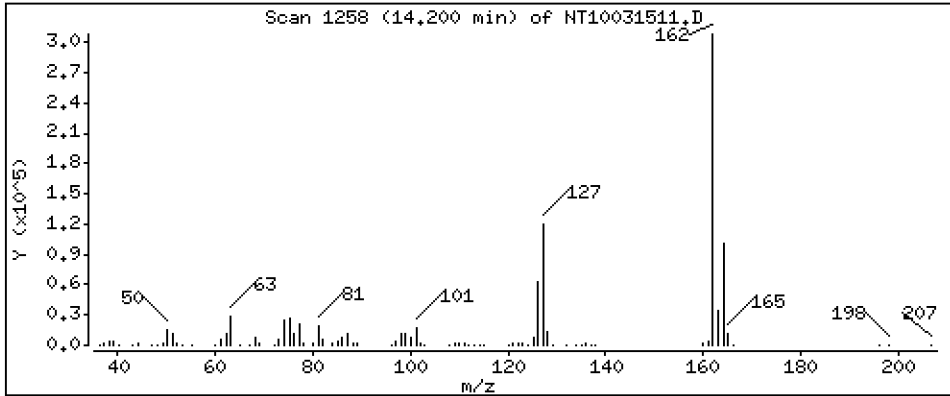
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,796 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

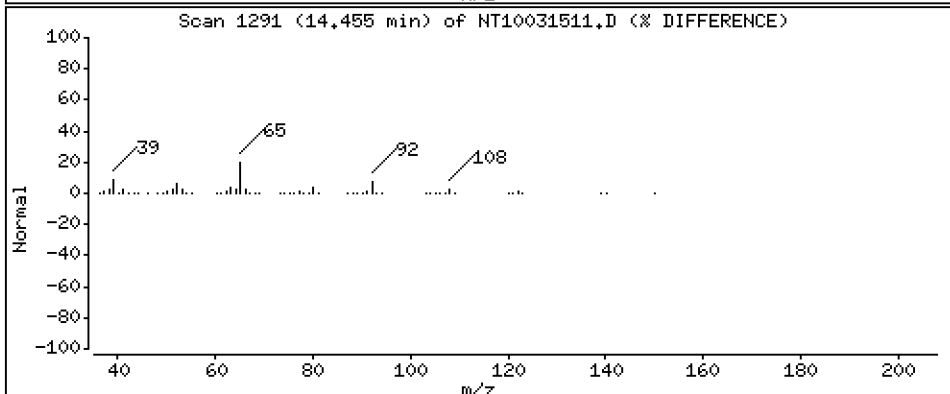
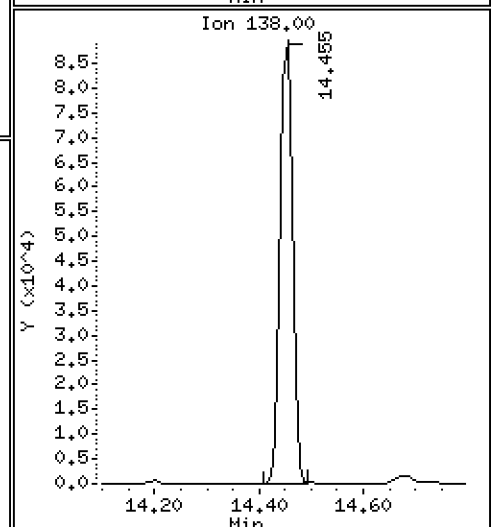
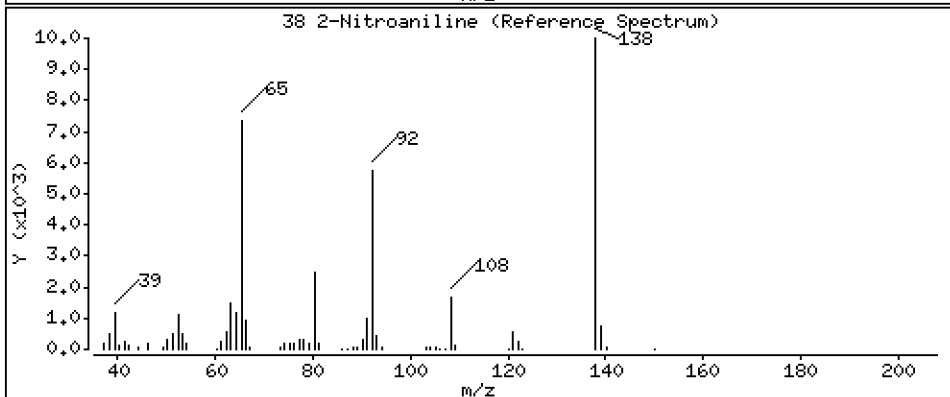
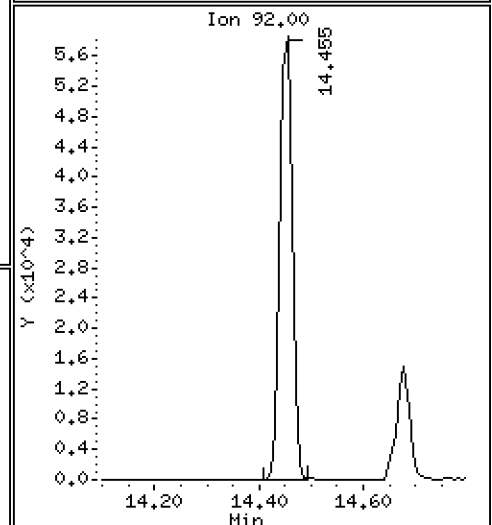
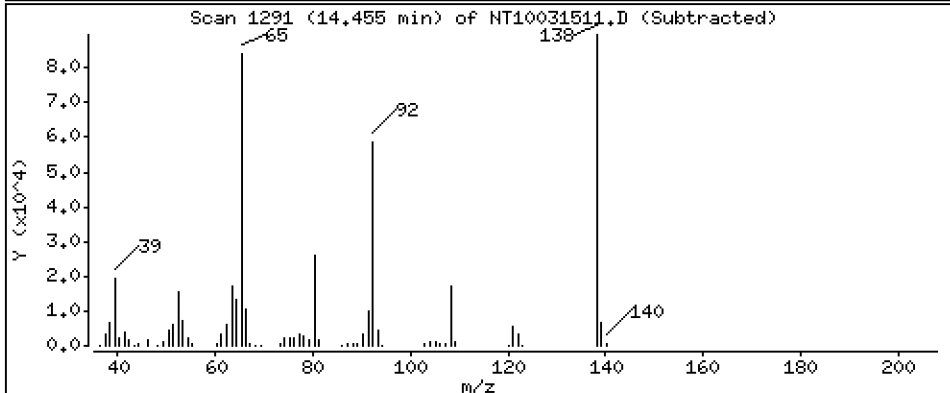
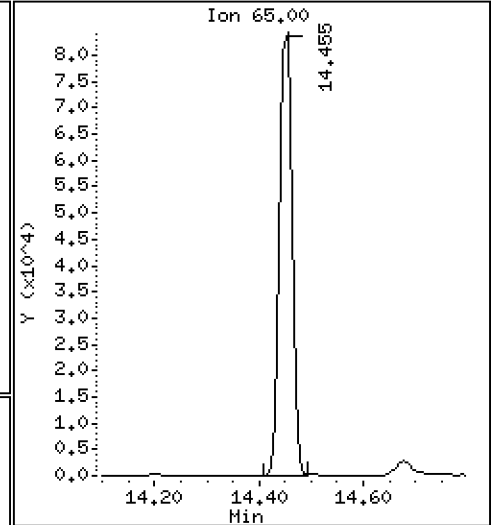
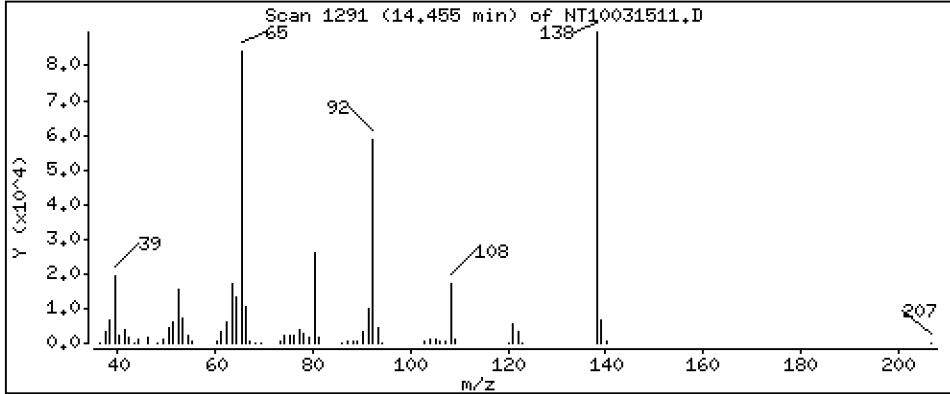
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 4,911 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

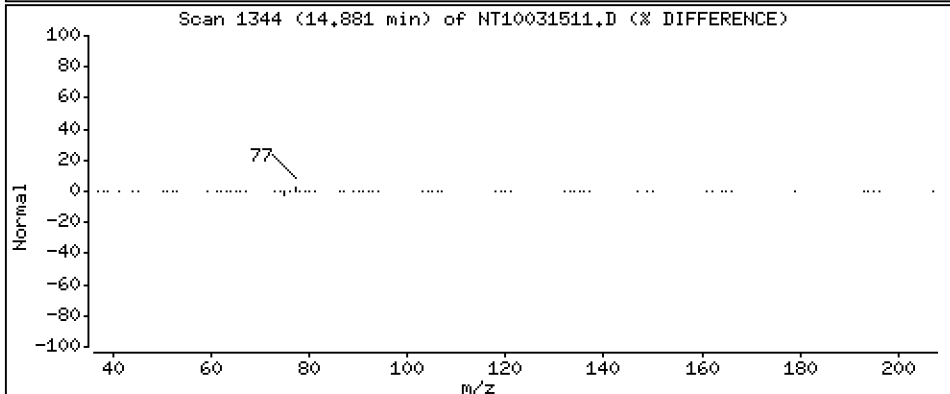
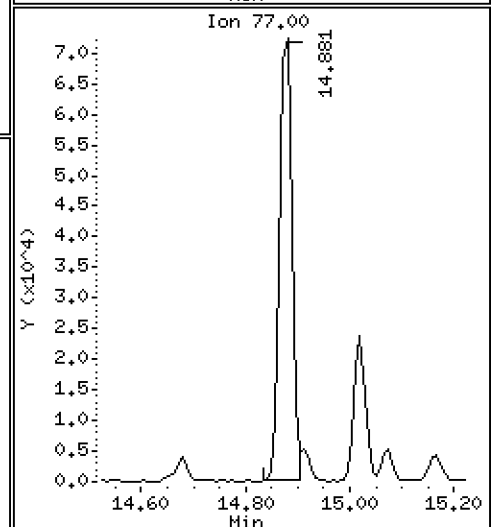
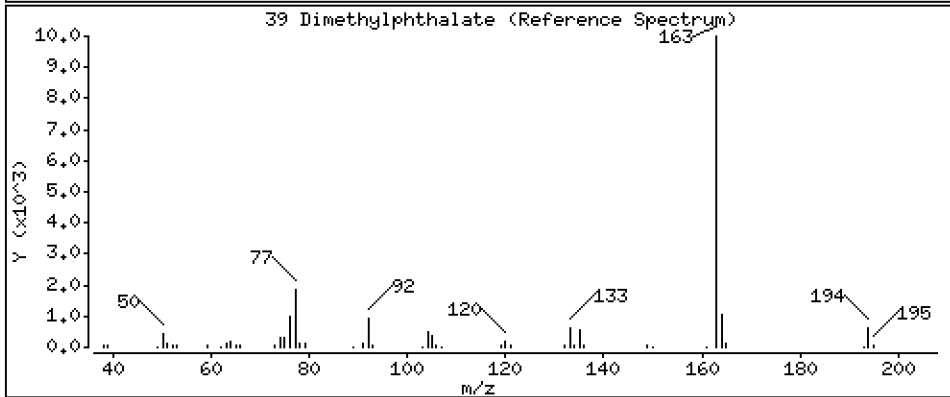
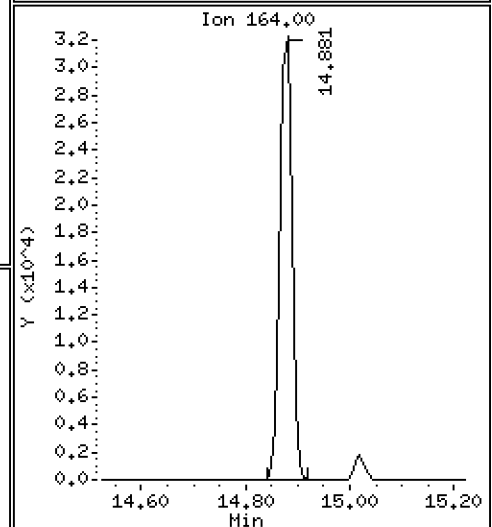
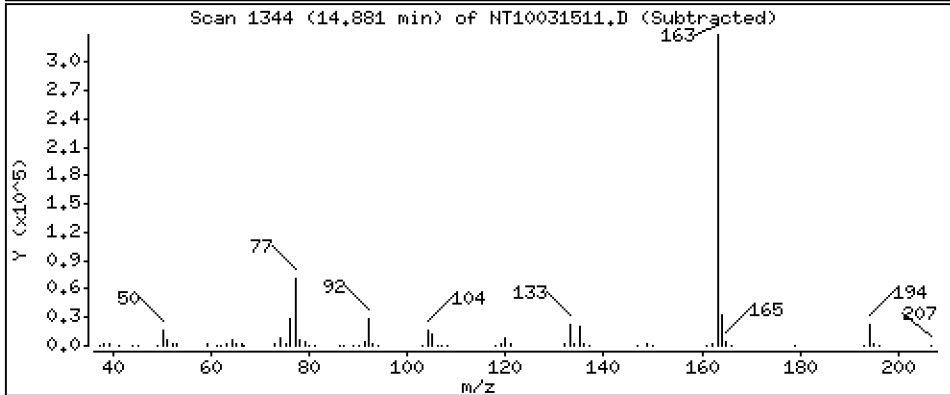
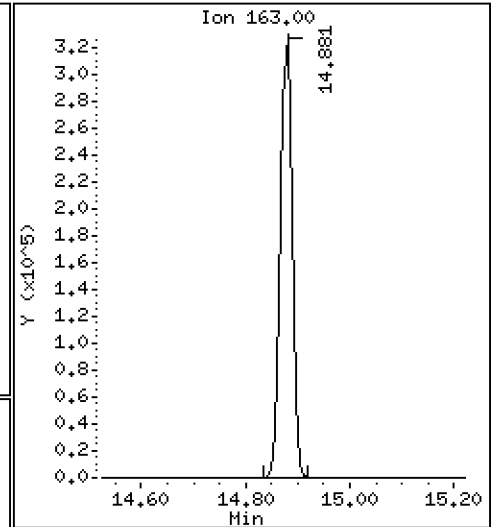
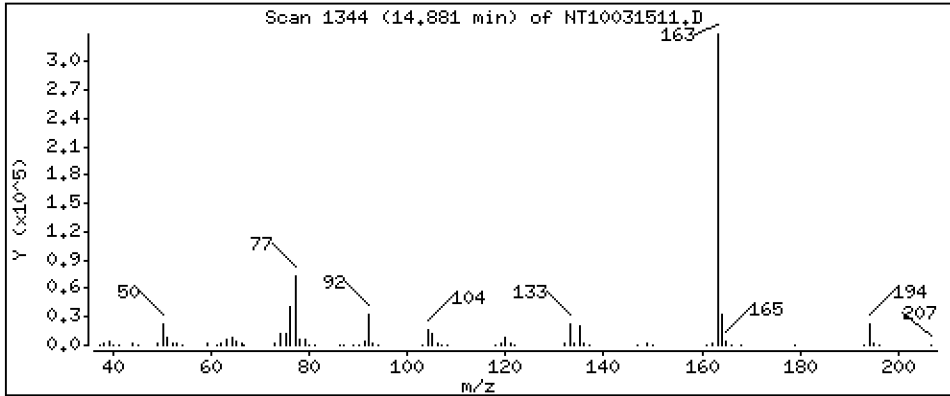
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,937 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

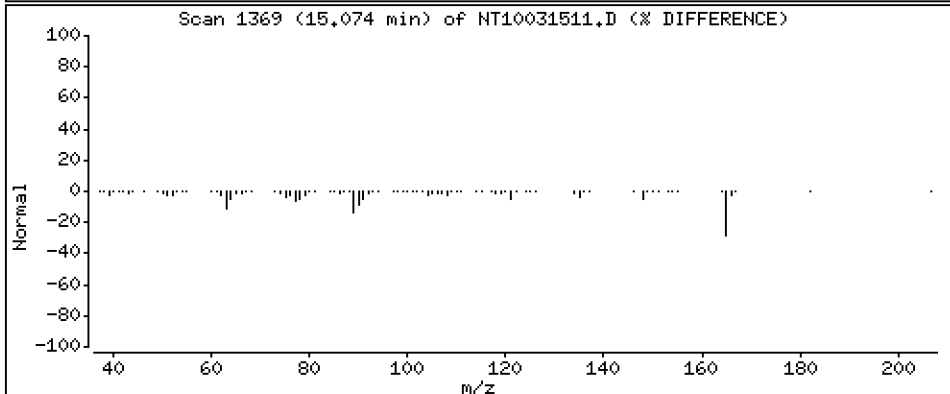
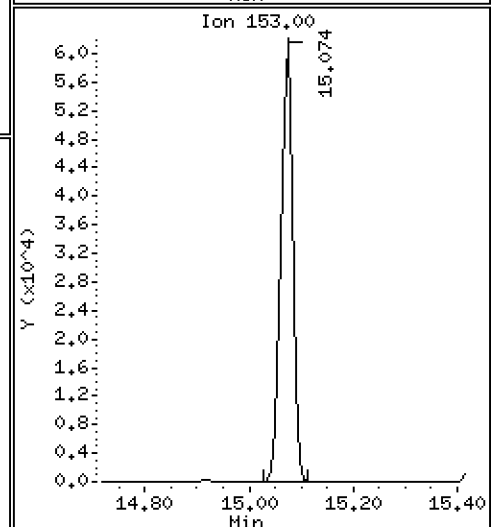
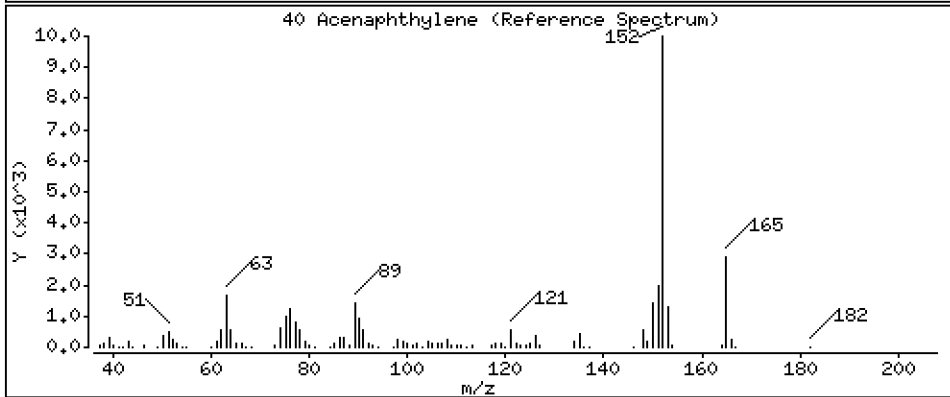
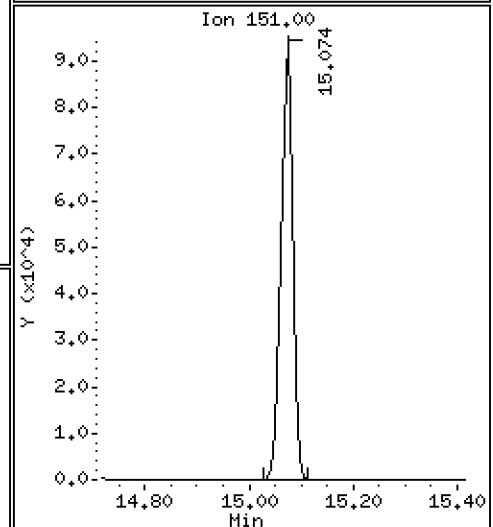
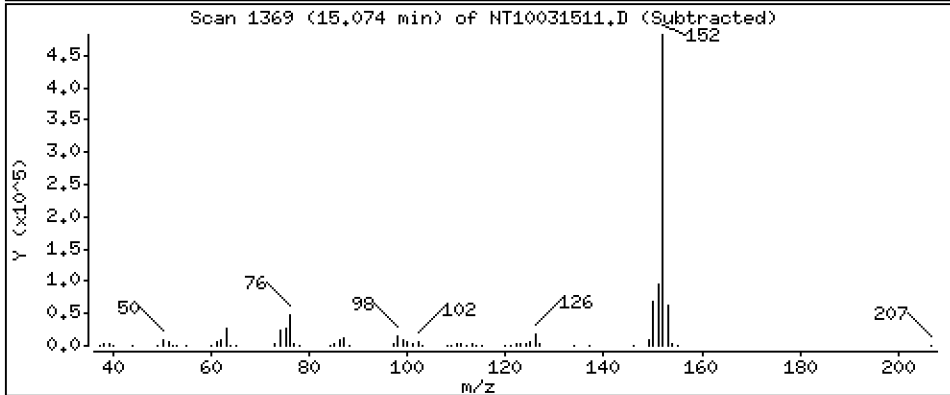
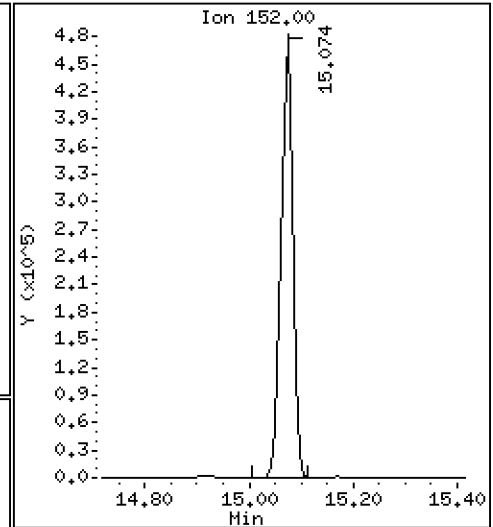
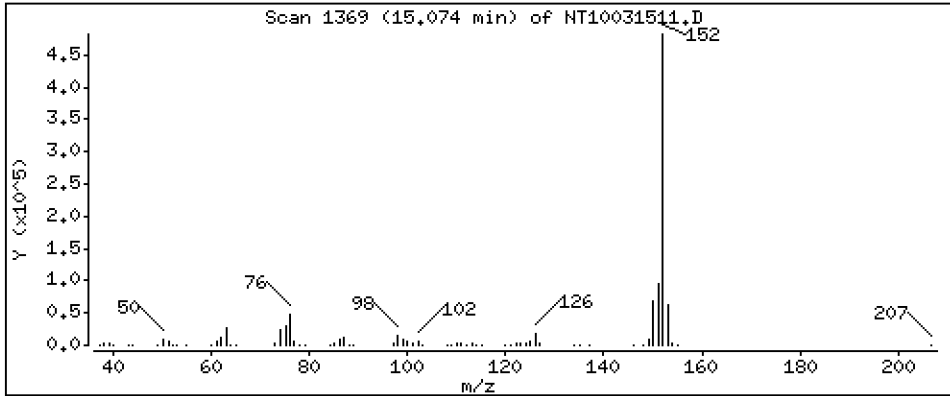
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,805 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

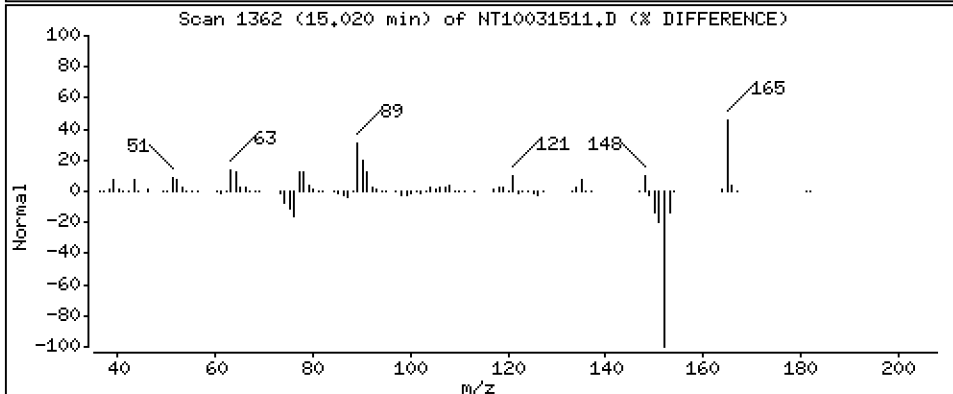
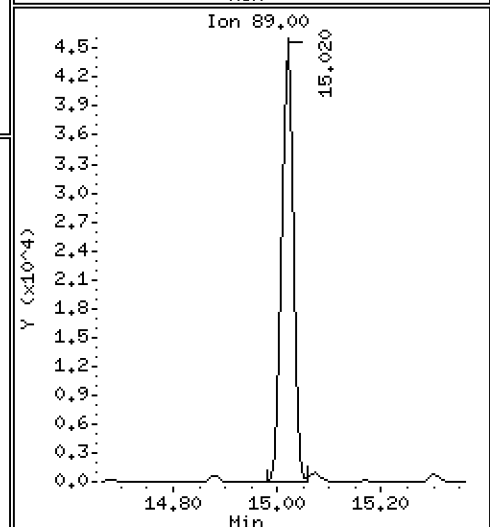
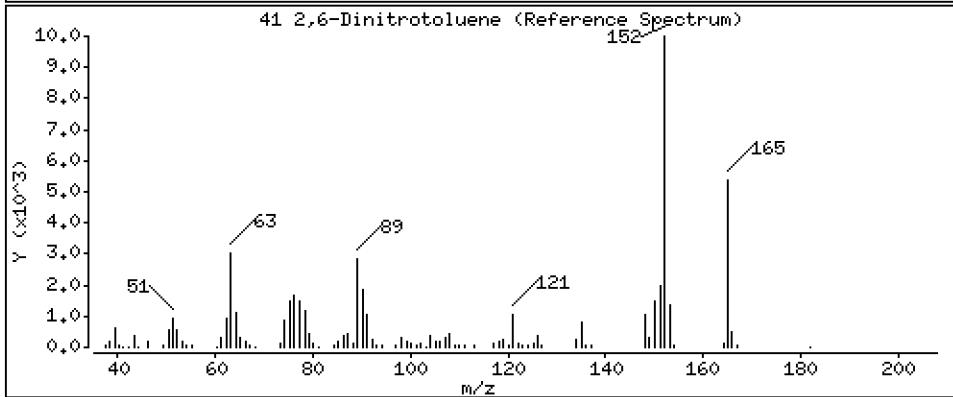
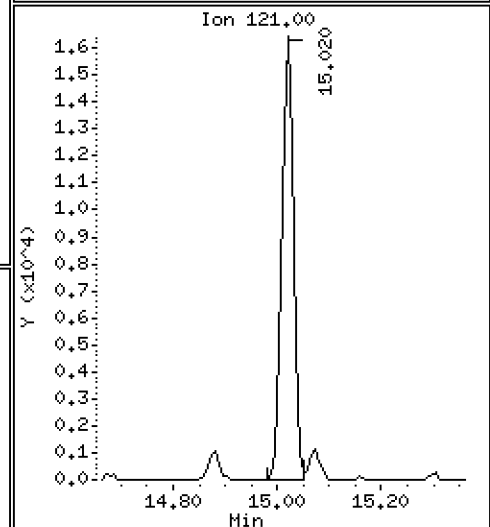
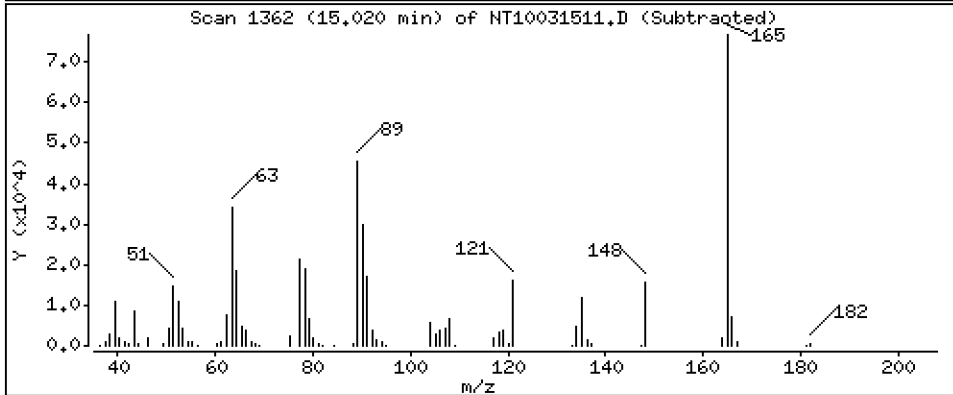
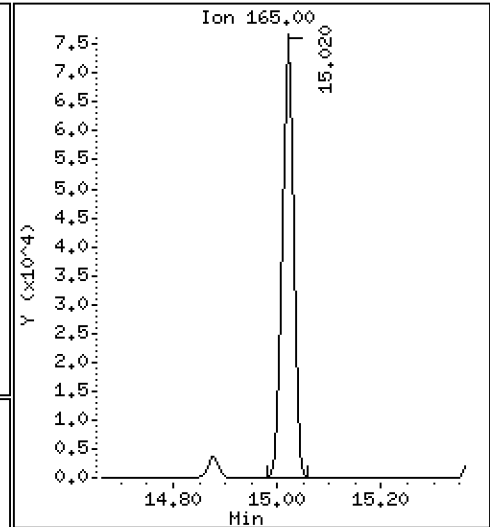
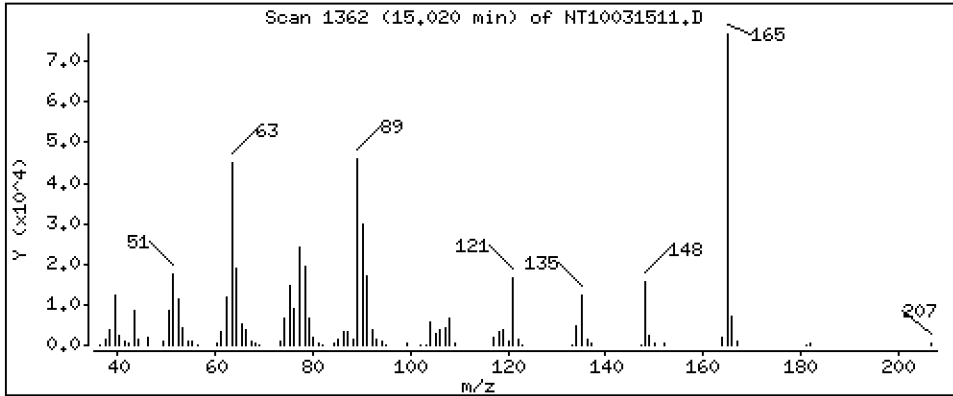
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 5,298 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

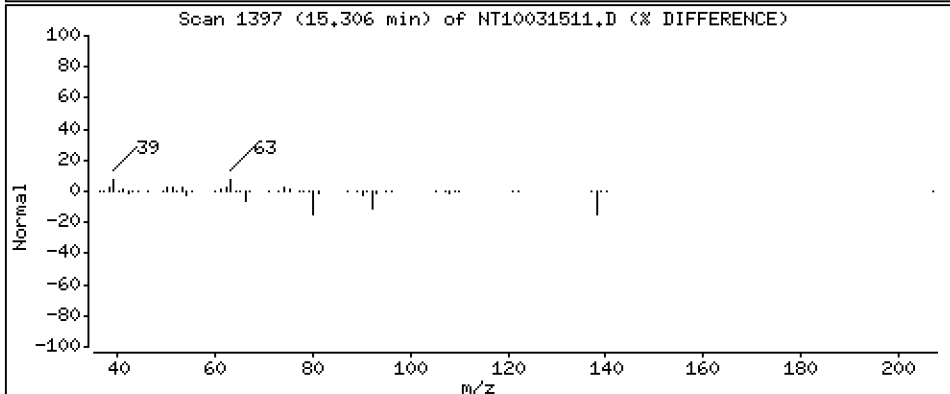
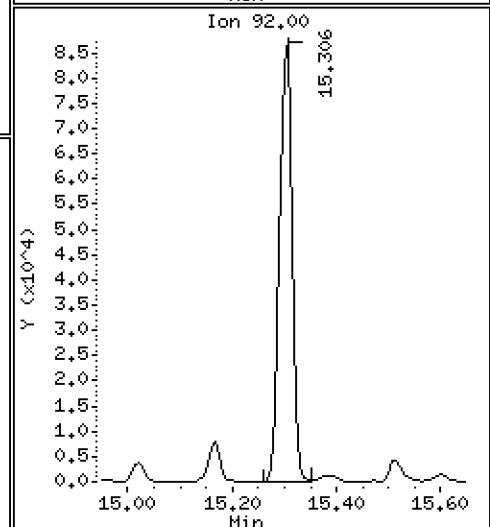
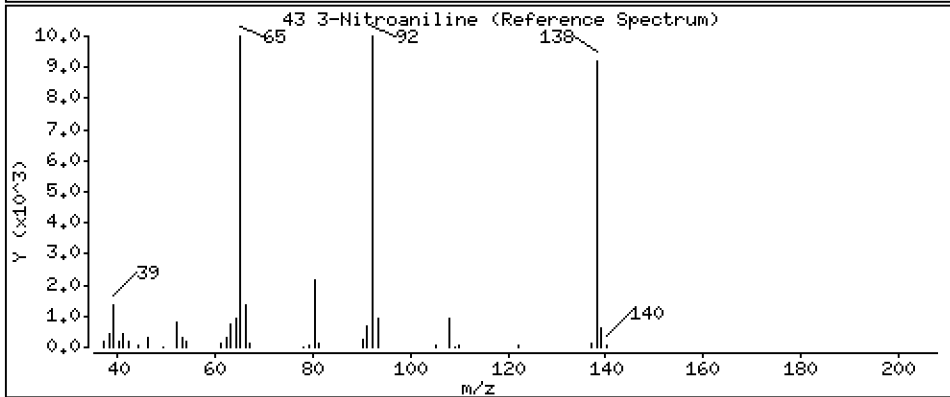
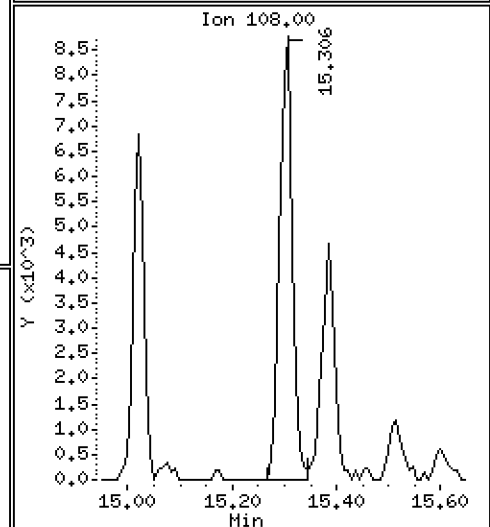
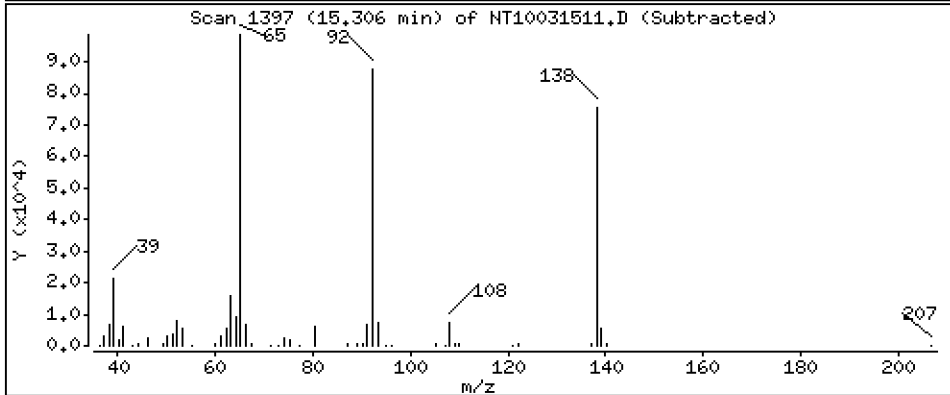
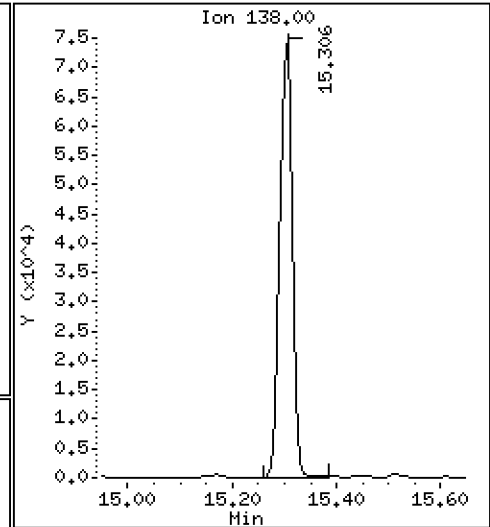
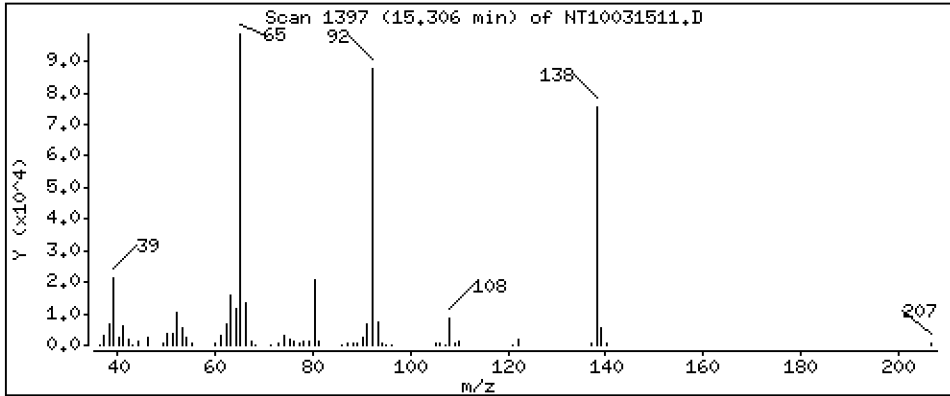
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 5,014 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

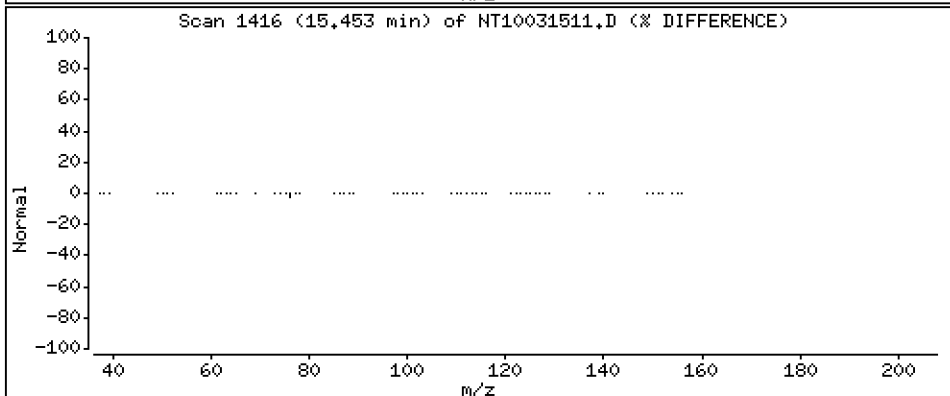
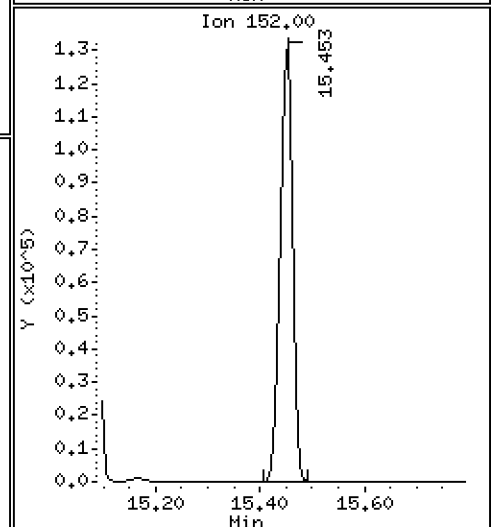
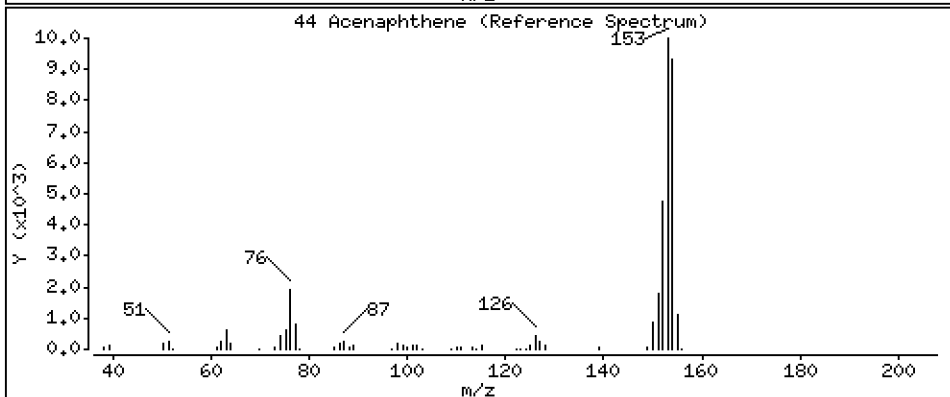
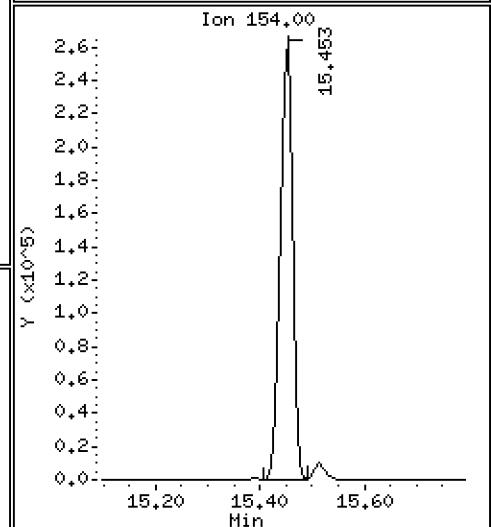
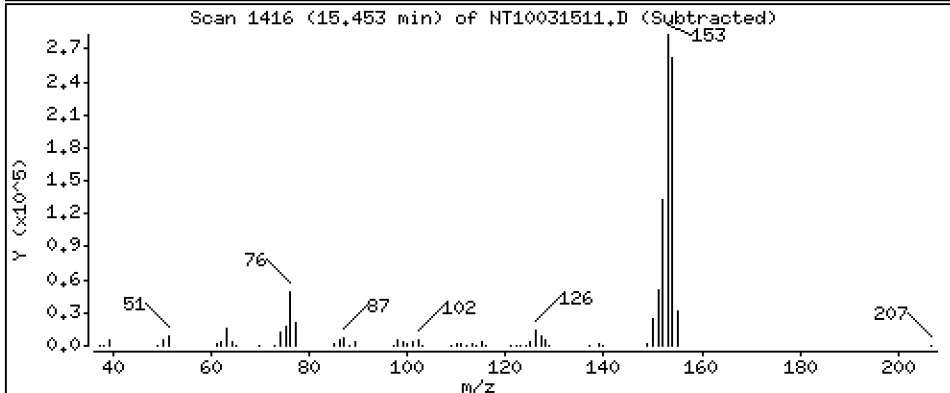
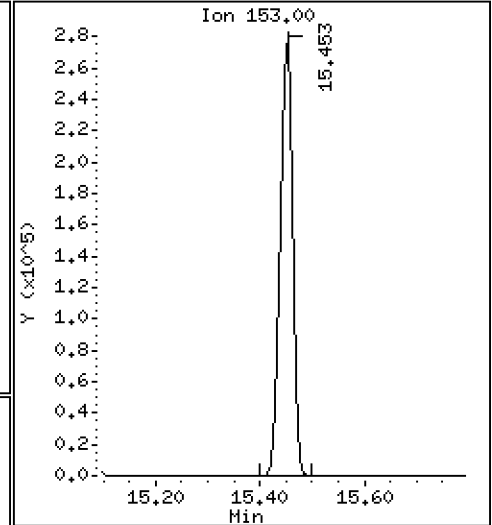
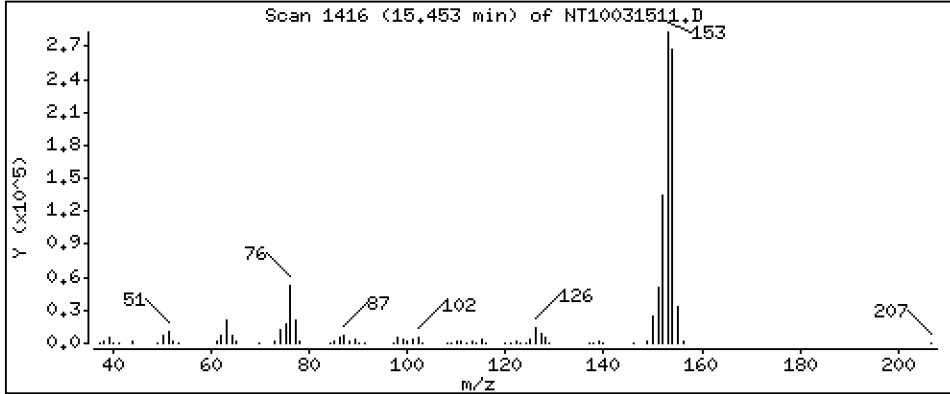
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,776 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

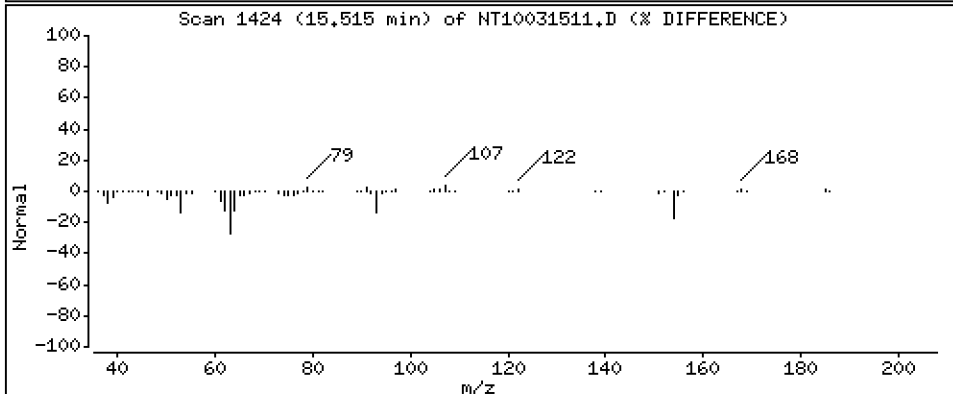
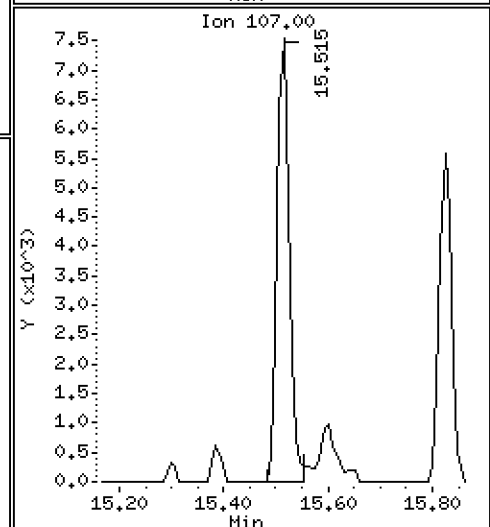
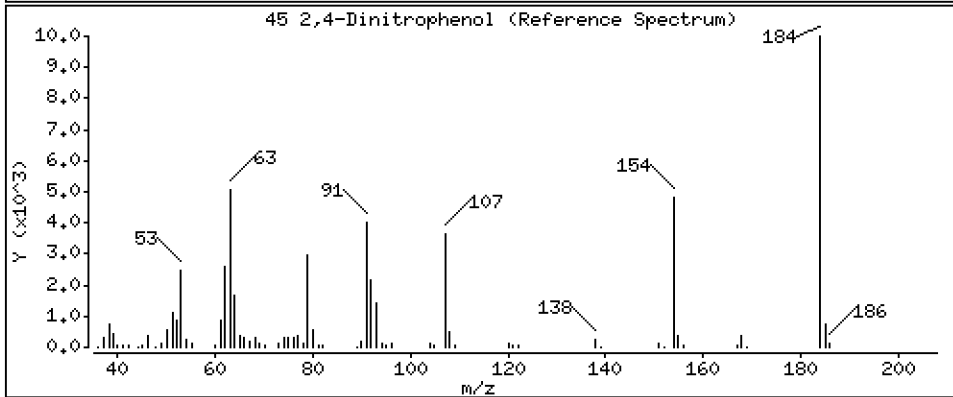
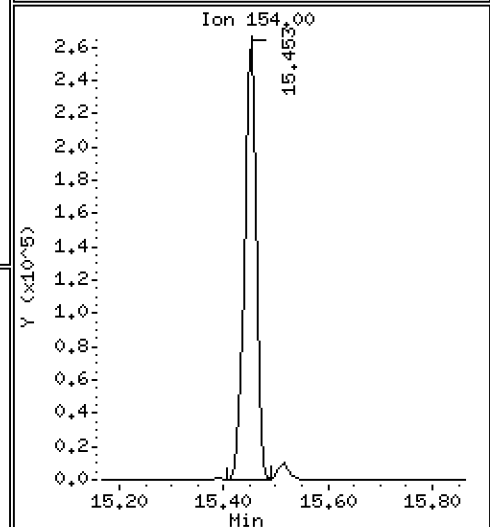
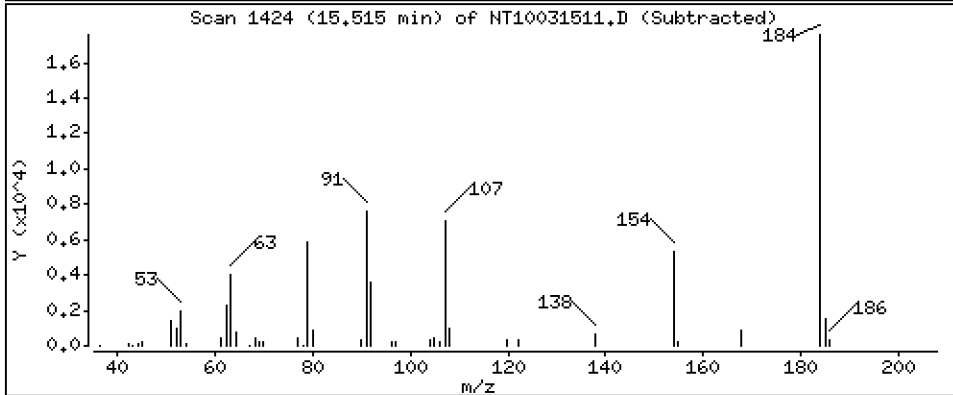
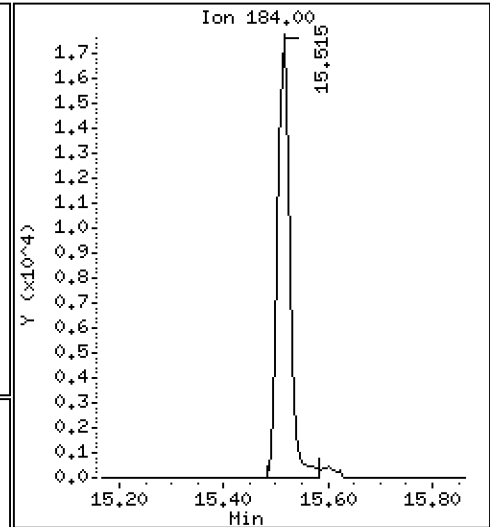
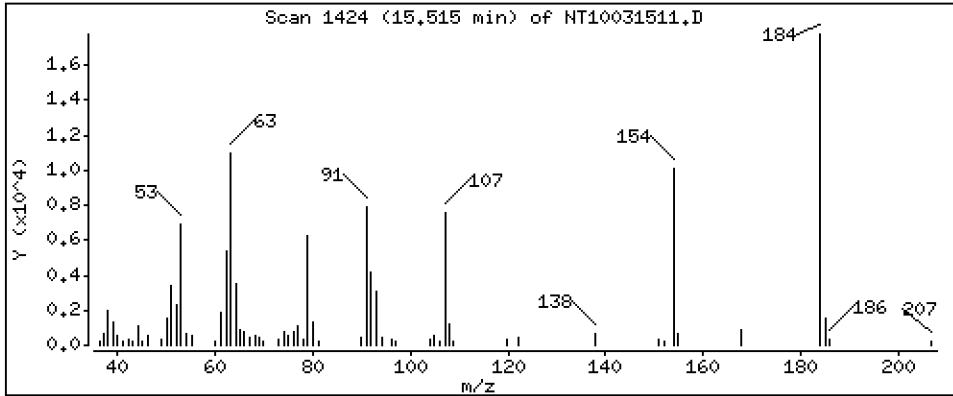
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 2,124 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

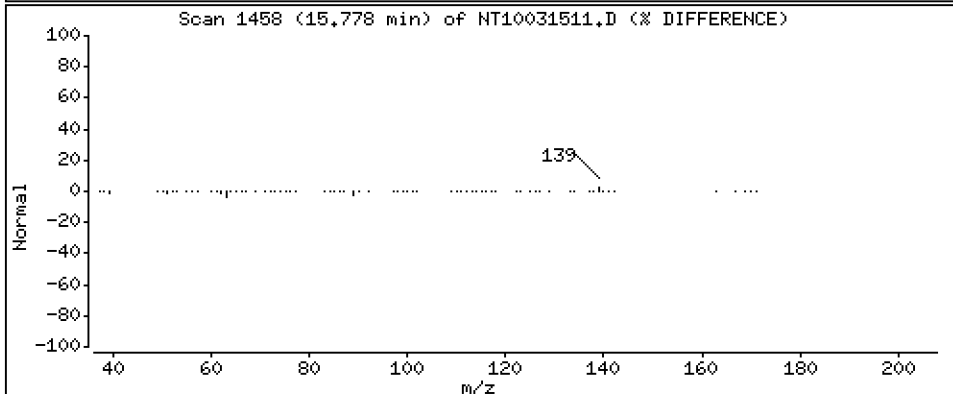
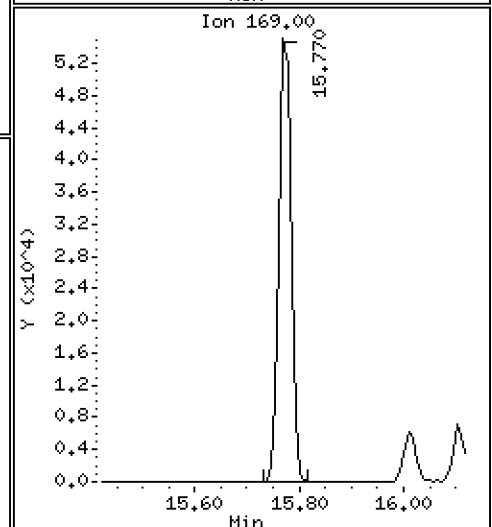
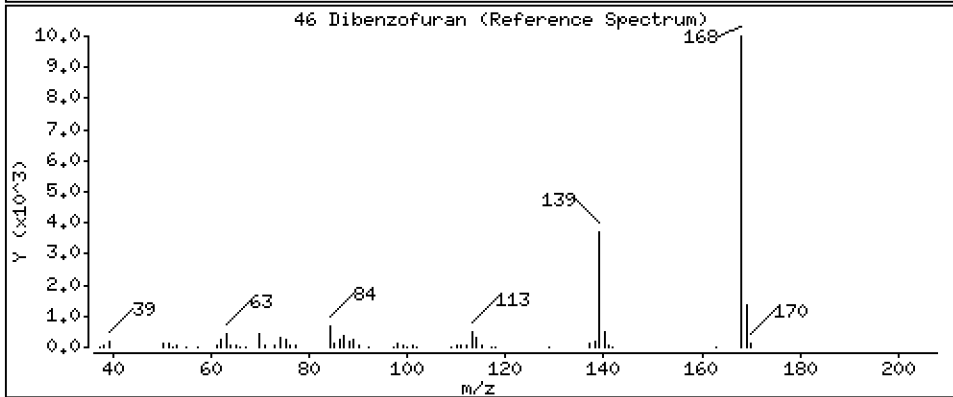
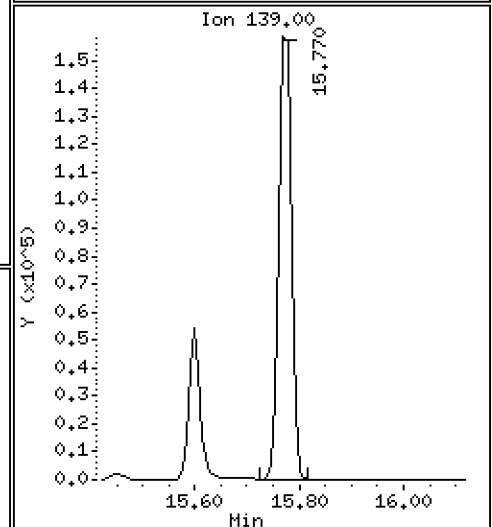
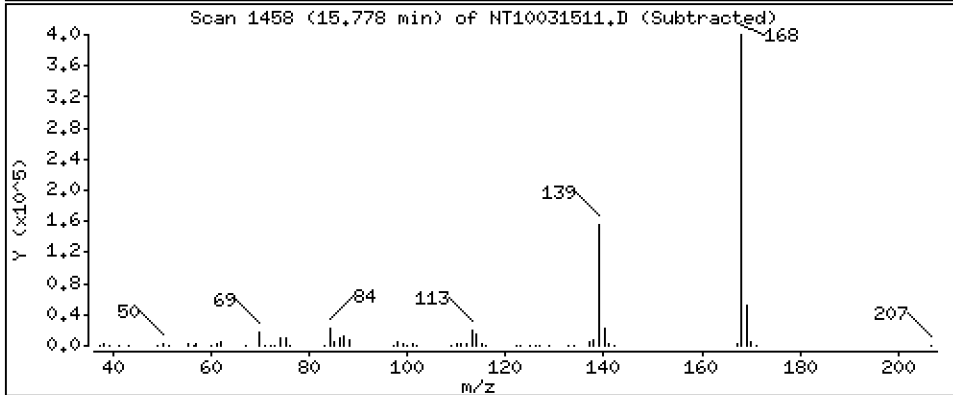
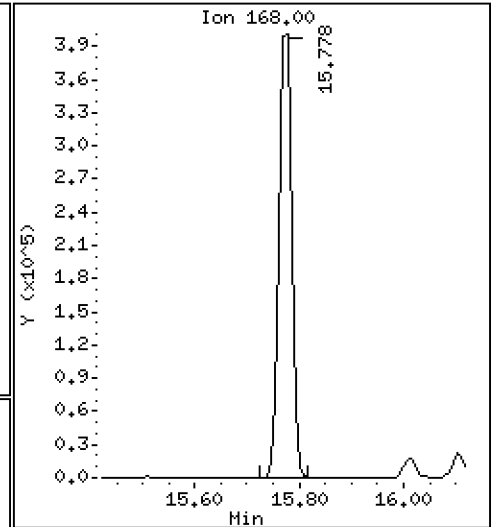
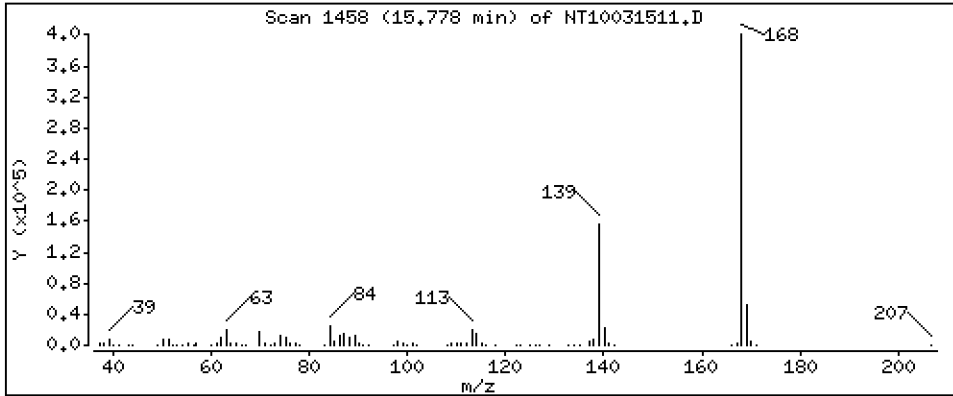
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,648 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

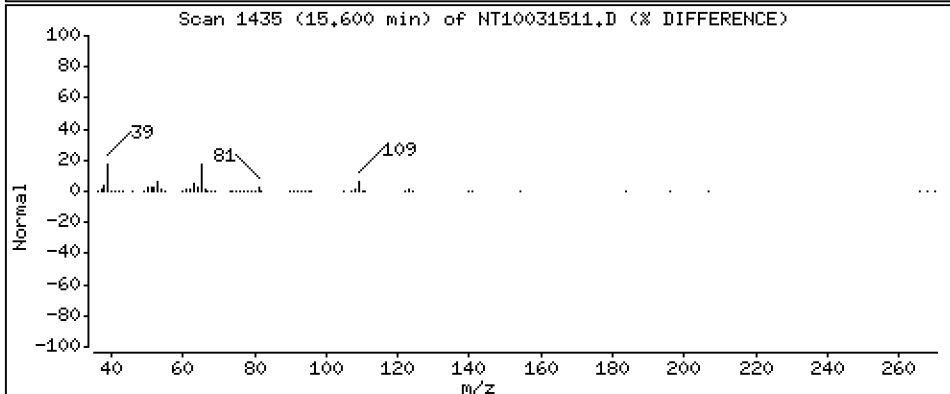
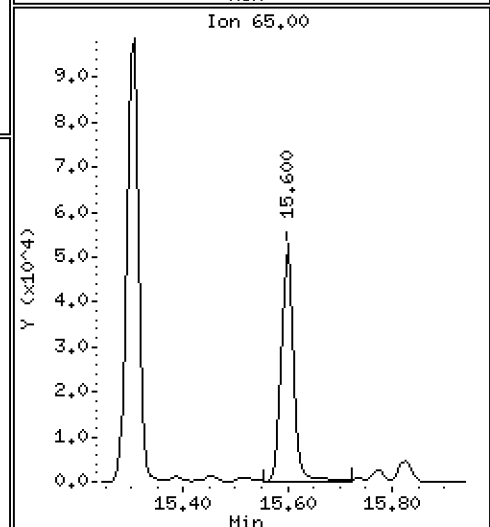
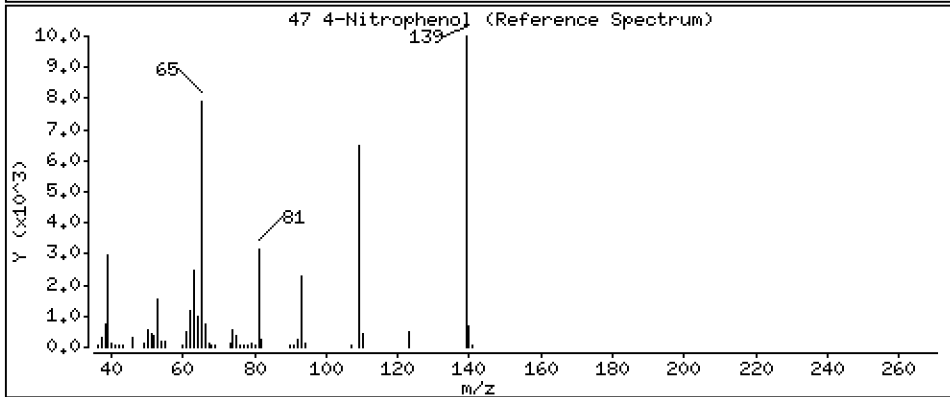
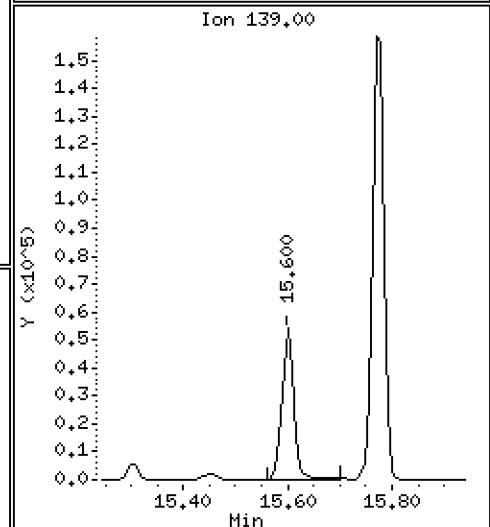
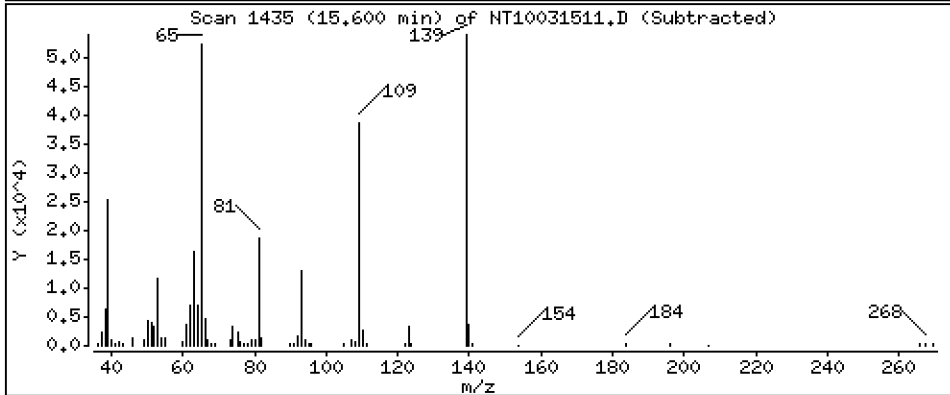
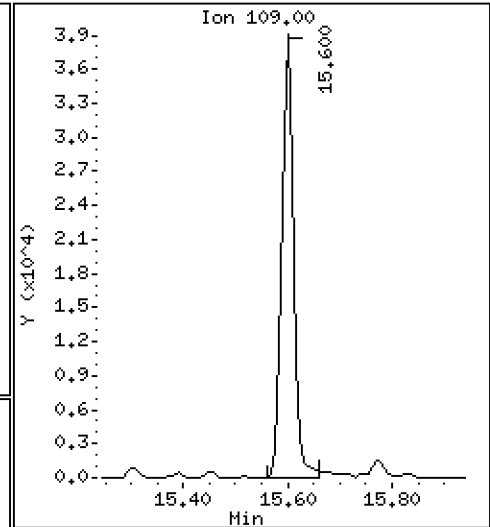
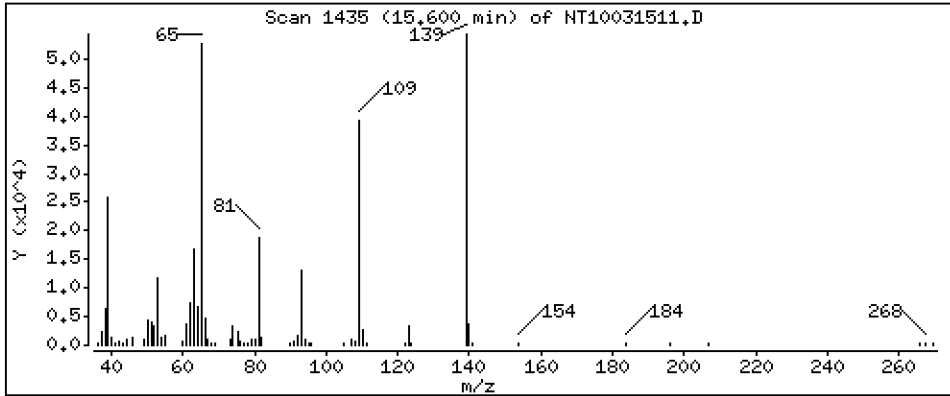
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 3,966 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

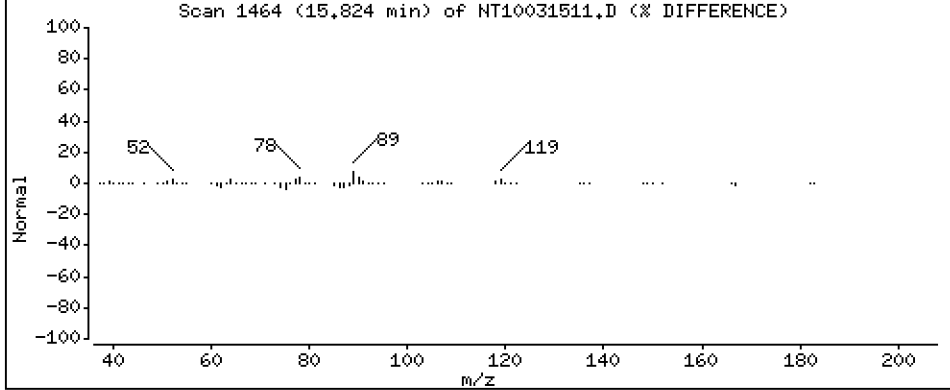
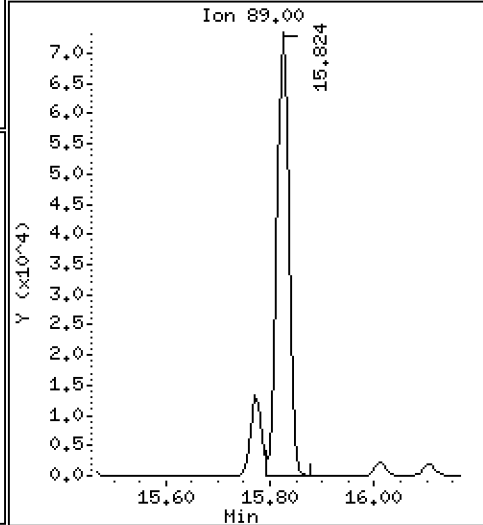
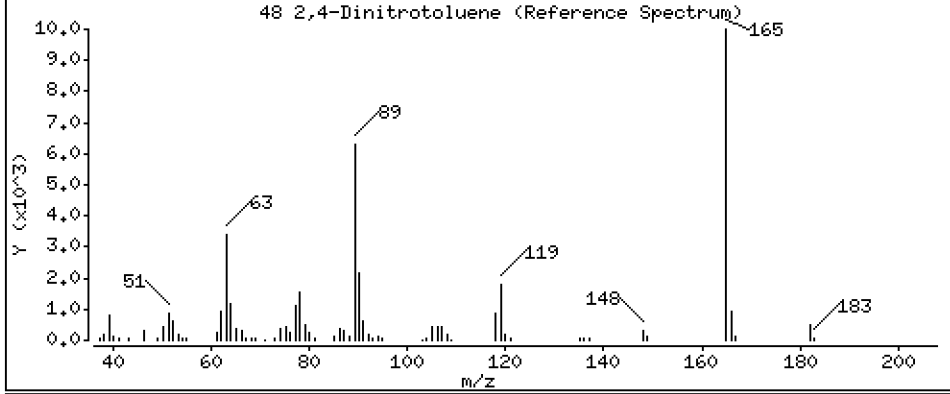
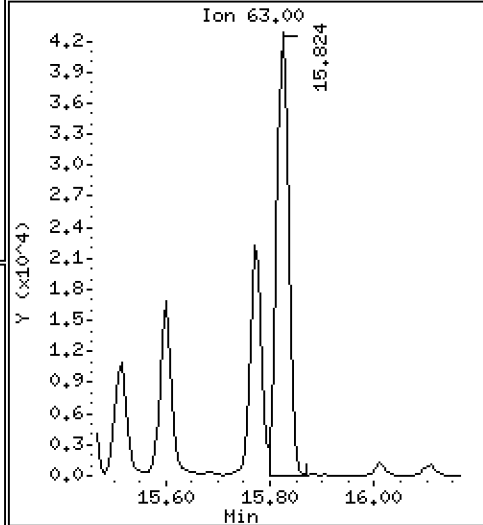
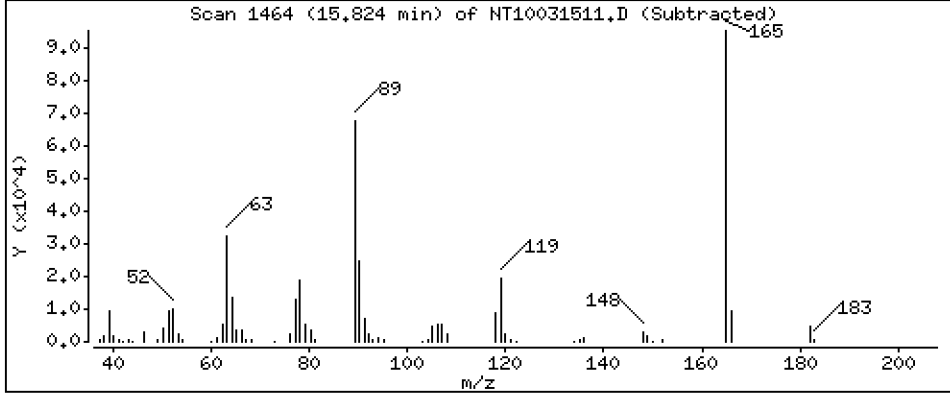
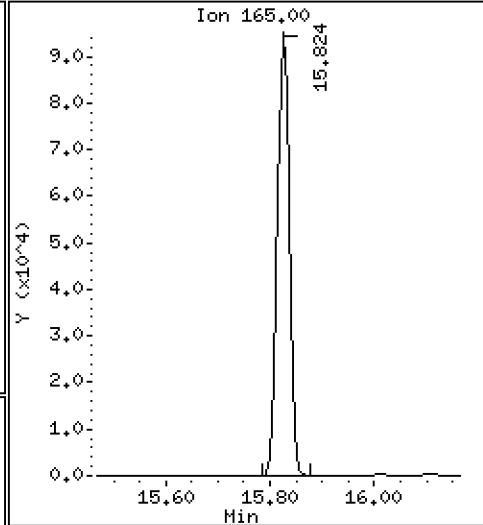
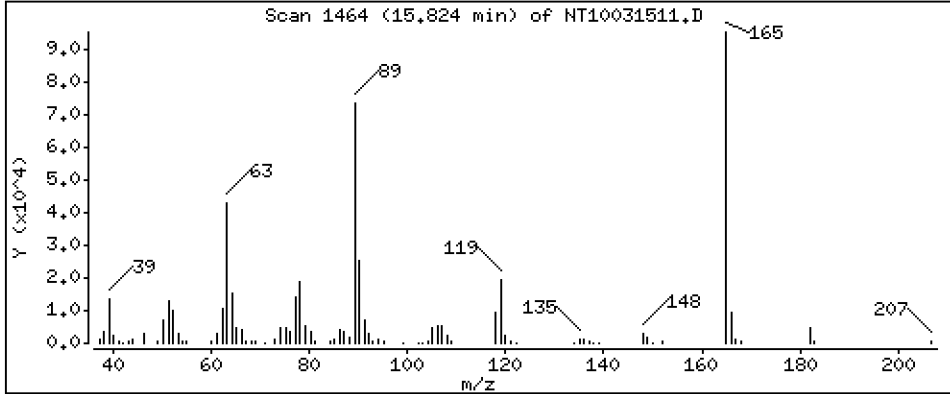
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 4,510 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

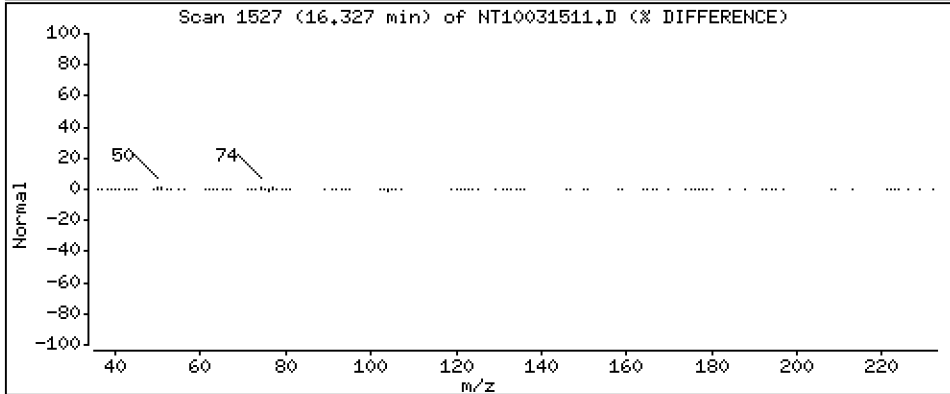
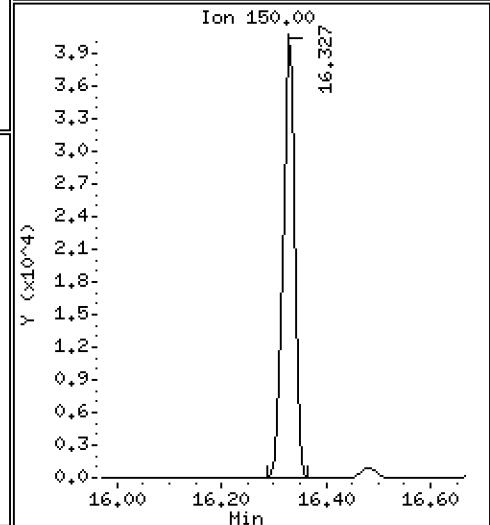
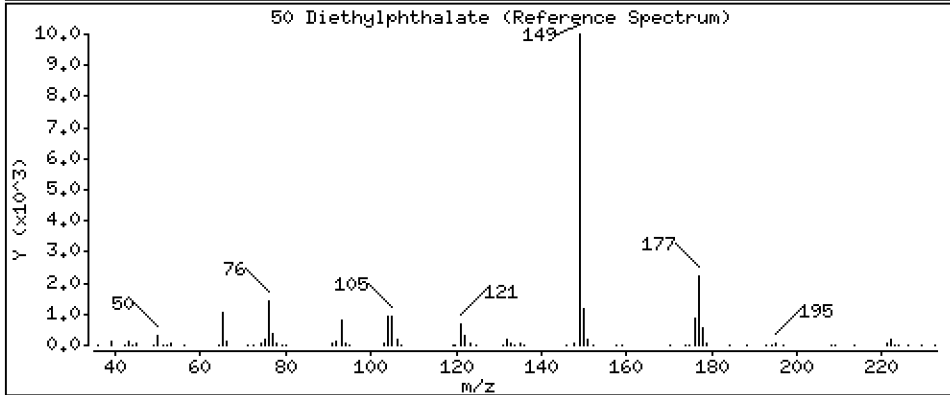
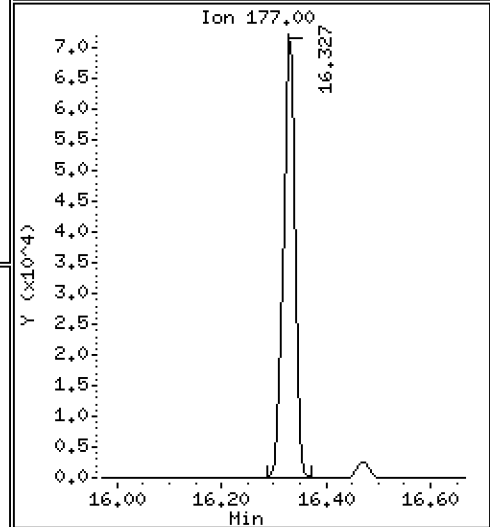
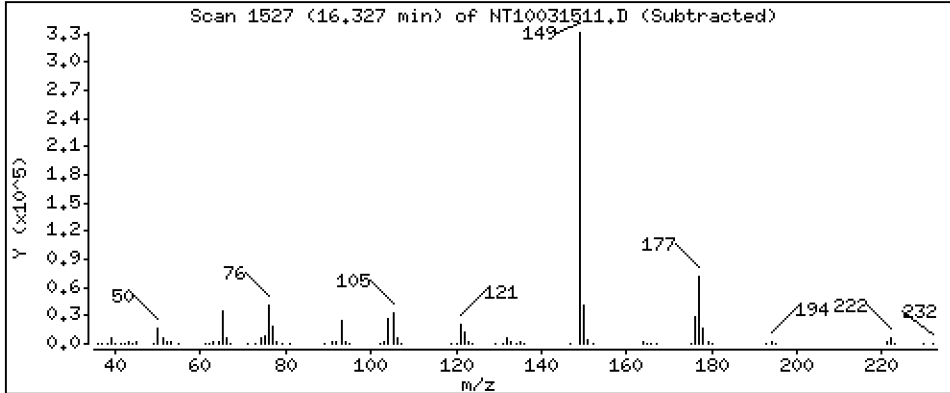
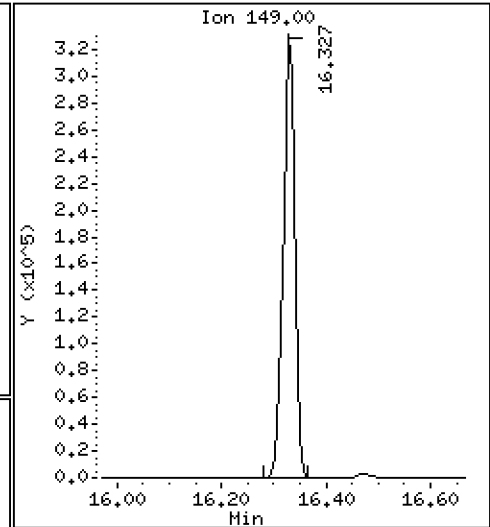
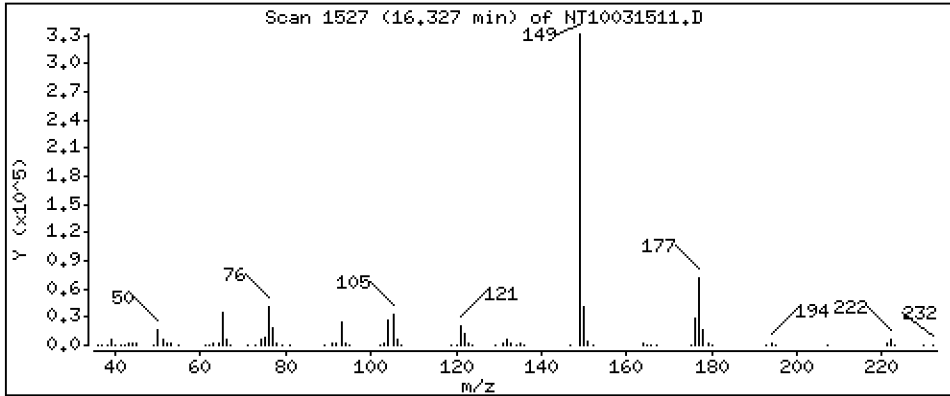
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,209 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

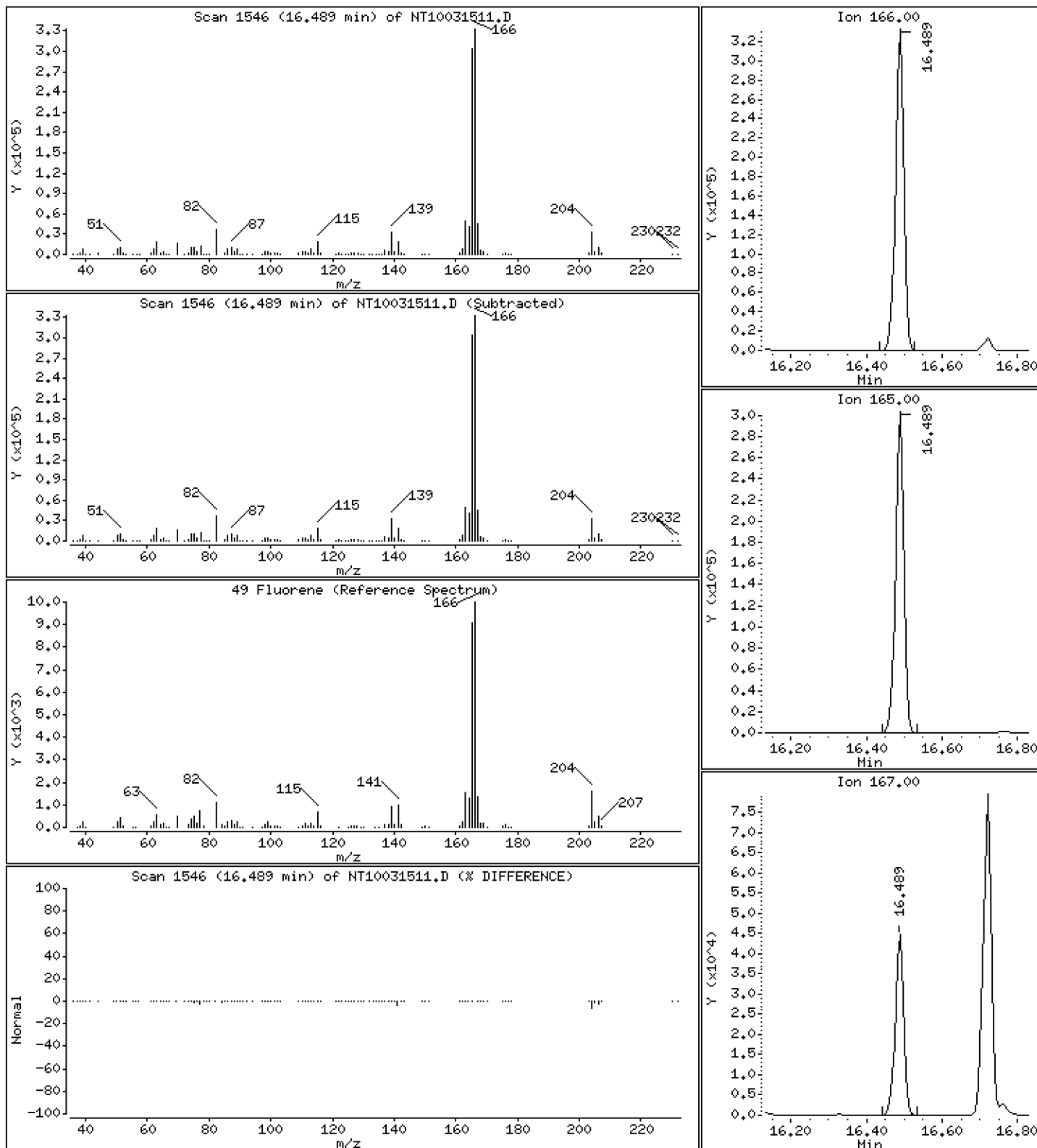
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,708 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

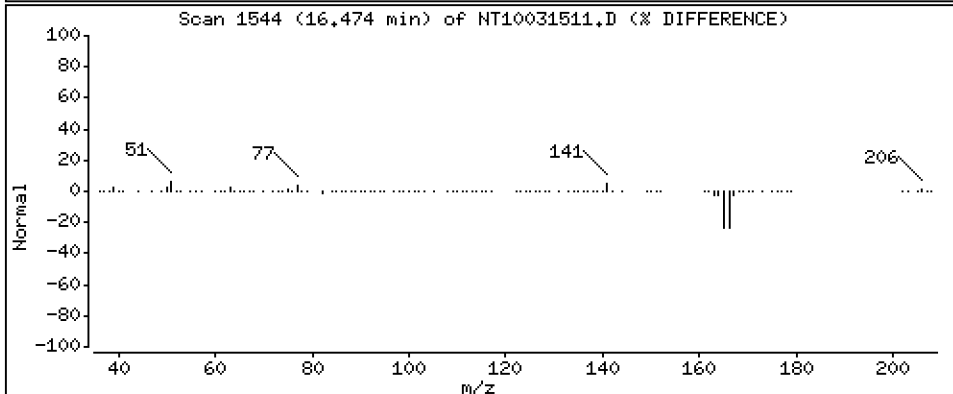
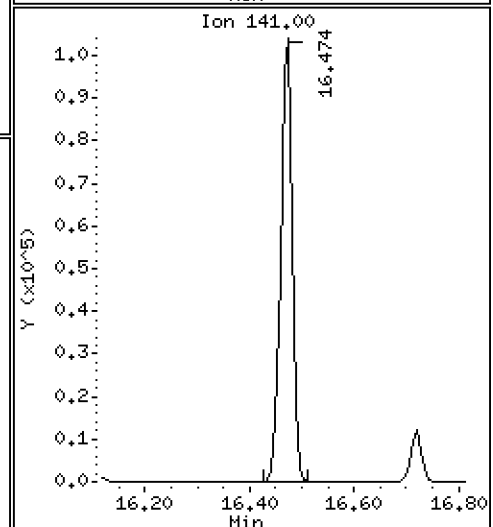
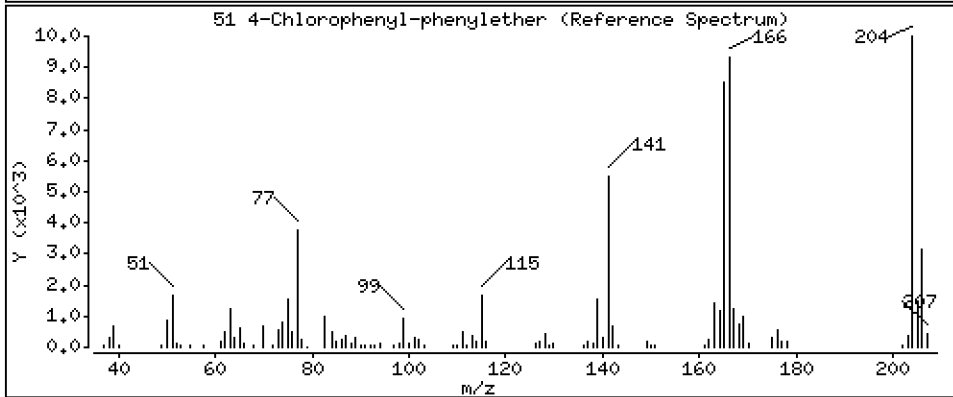
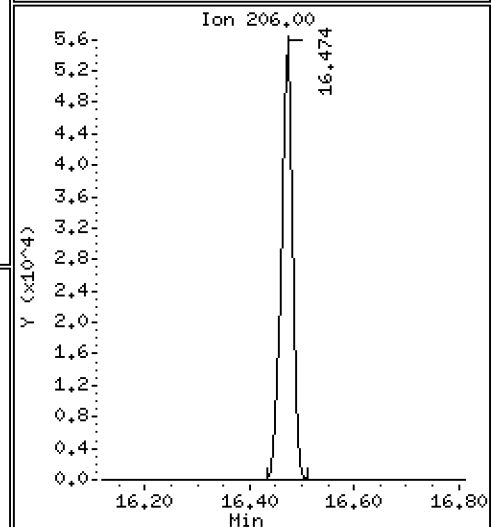
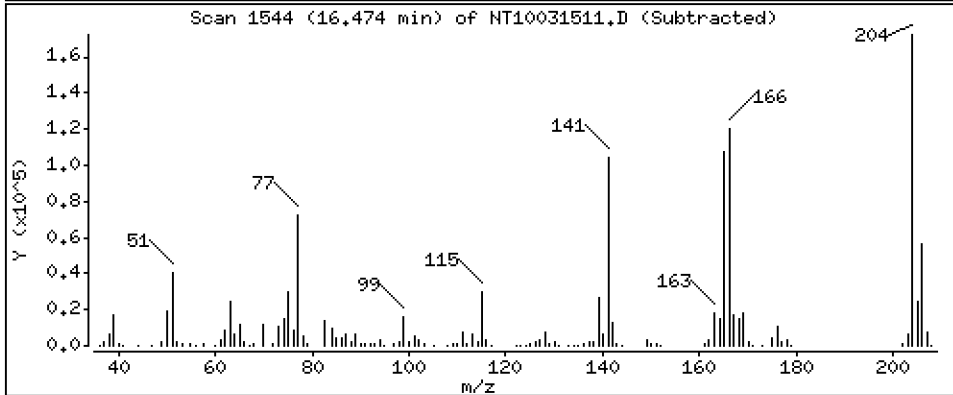
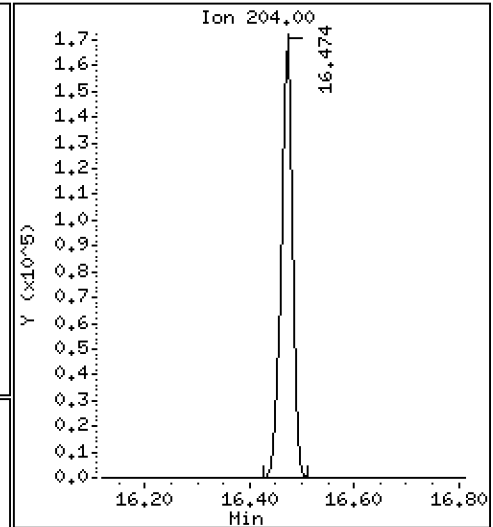
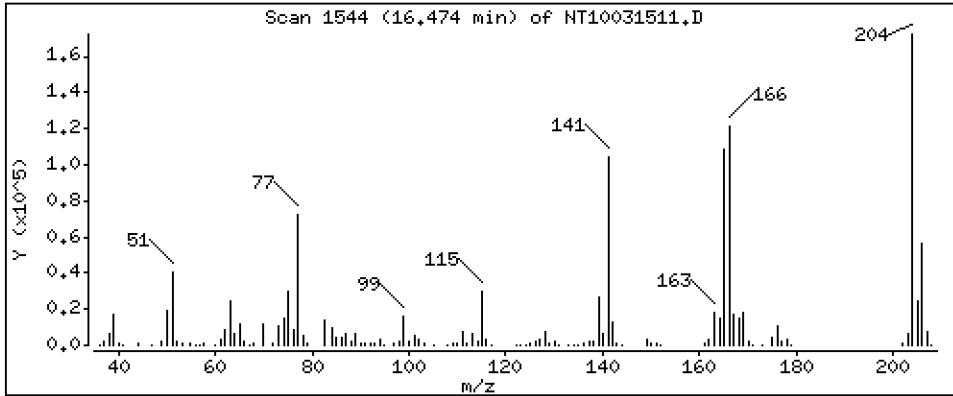
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,993 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

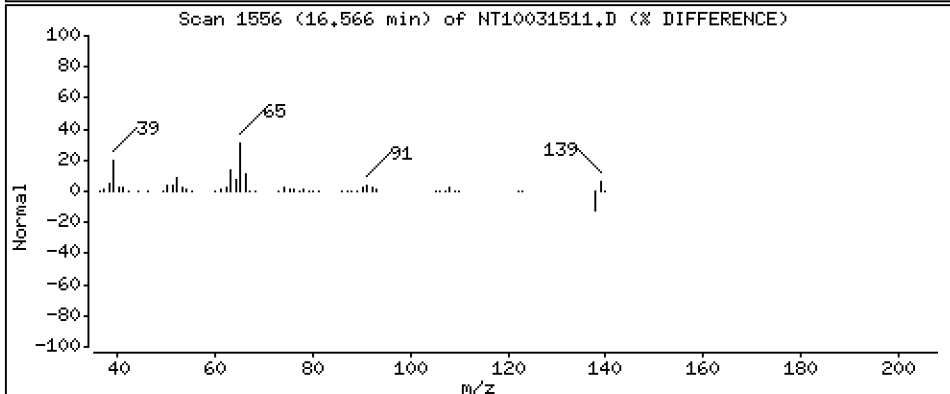
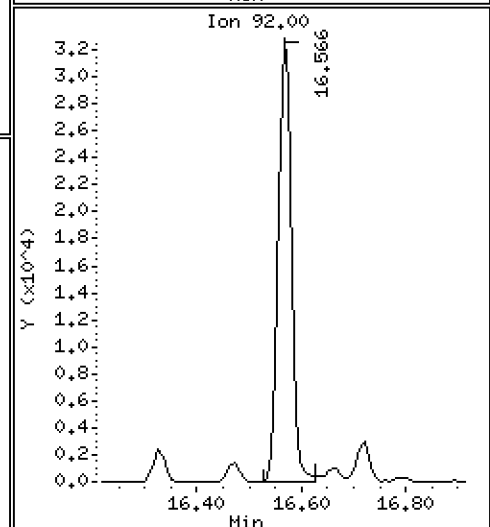
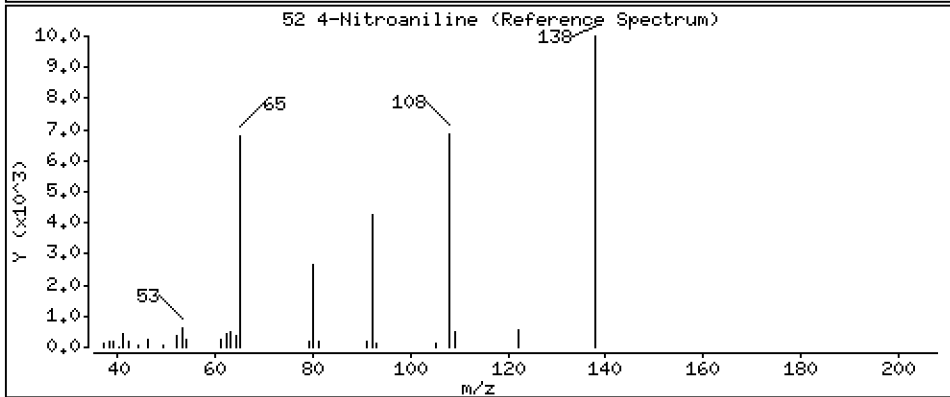
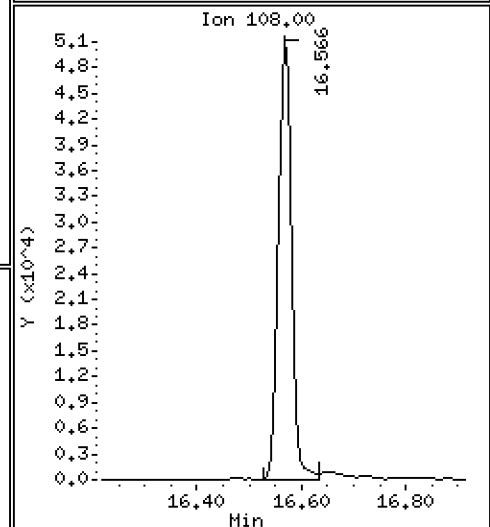
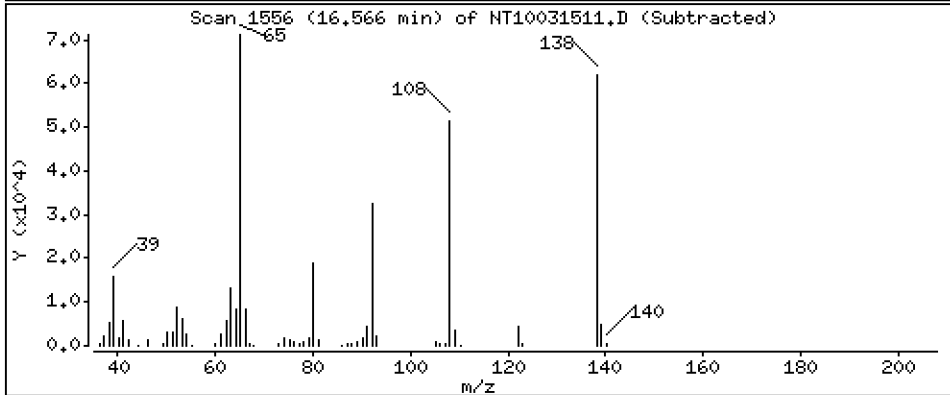
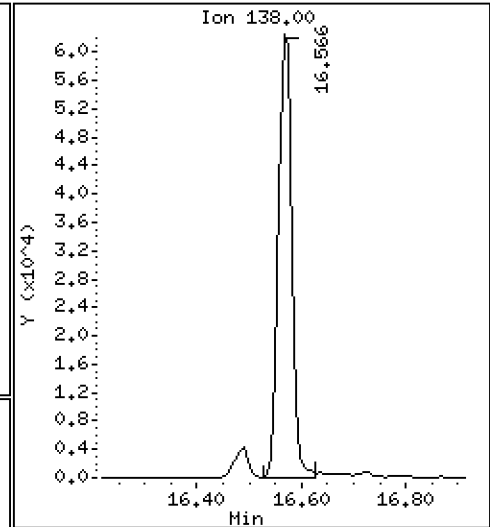
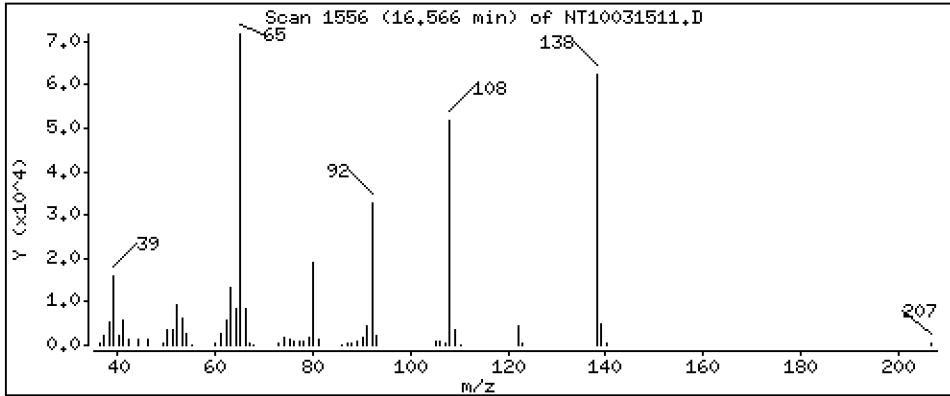
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 4,925 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

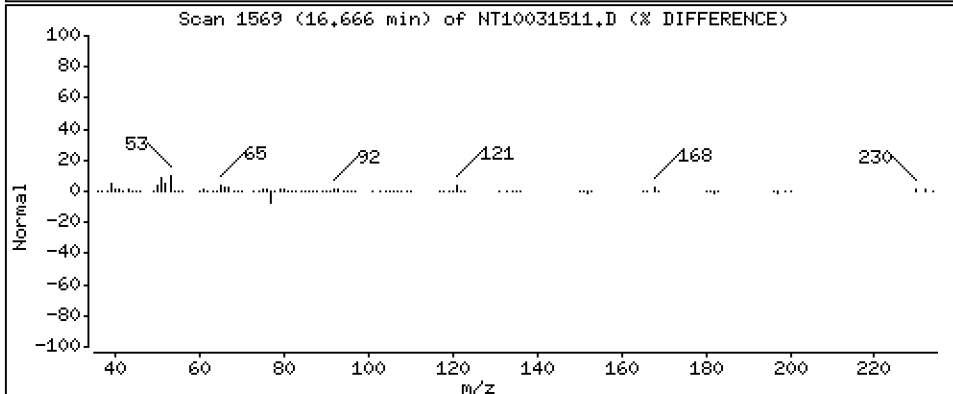
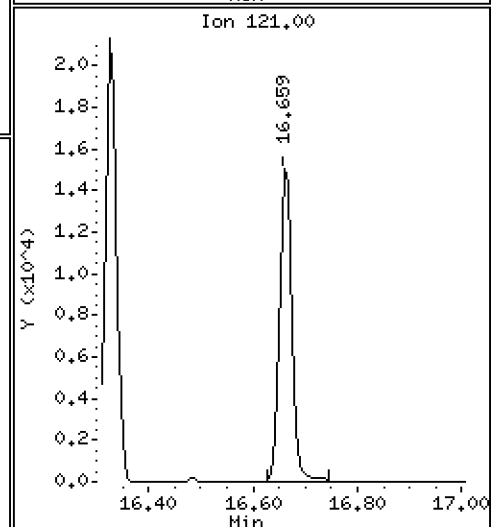
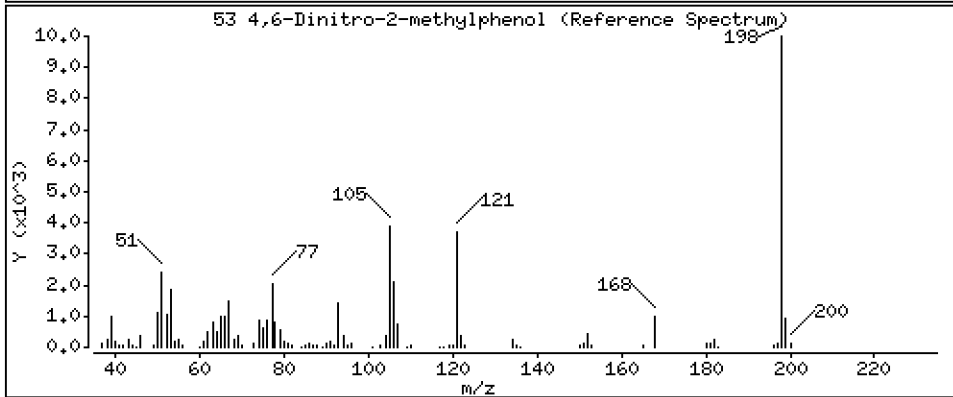
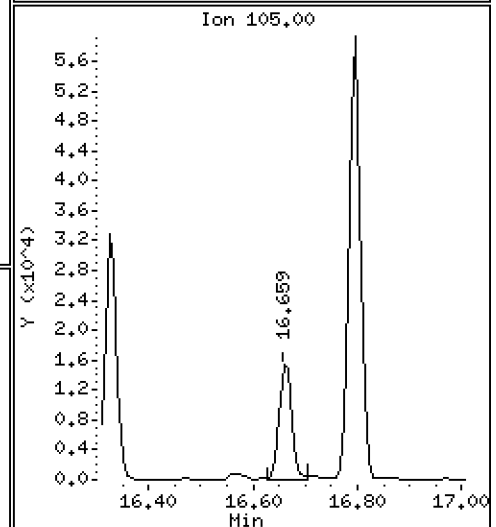
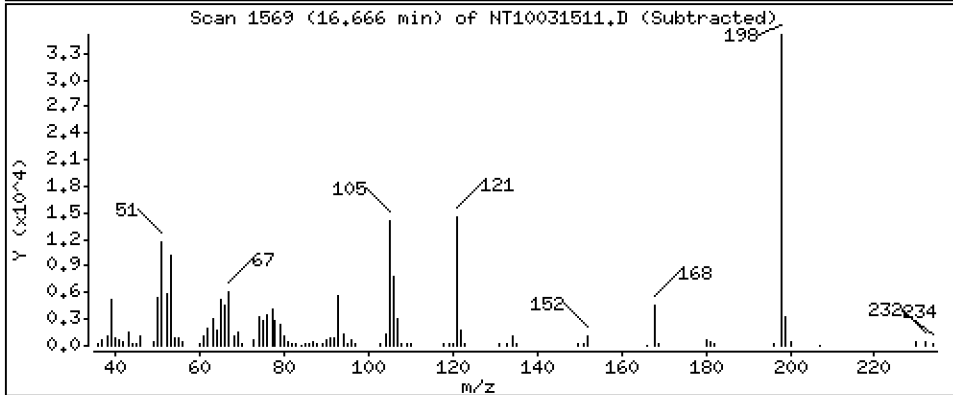
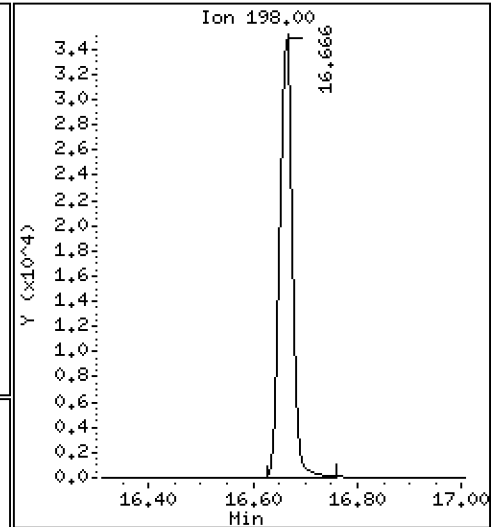
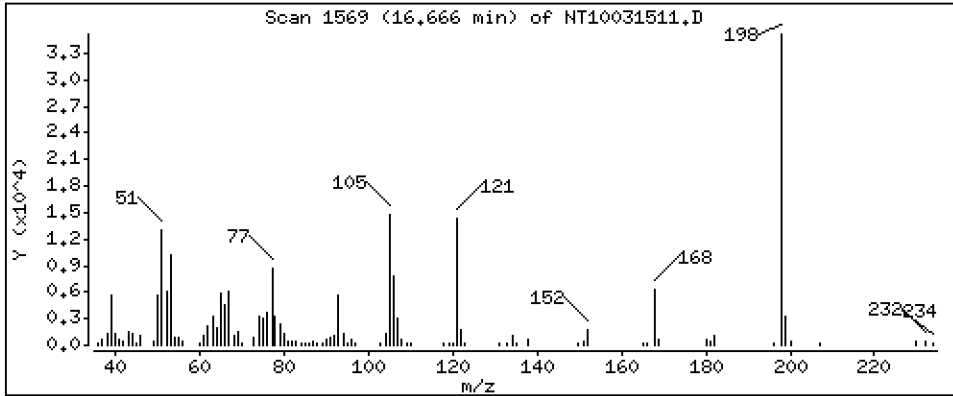
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 3.515 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

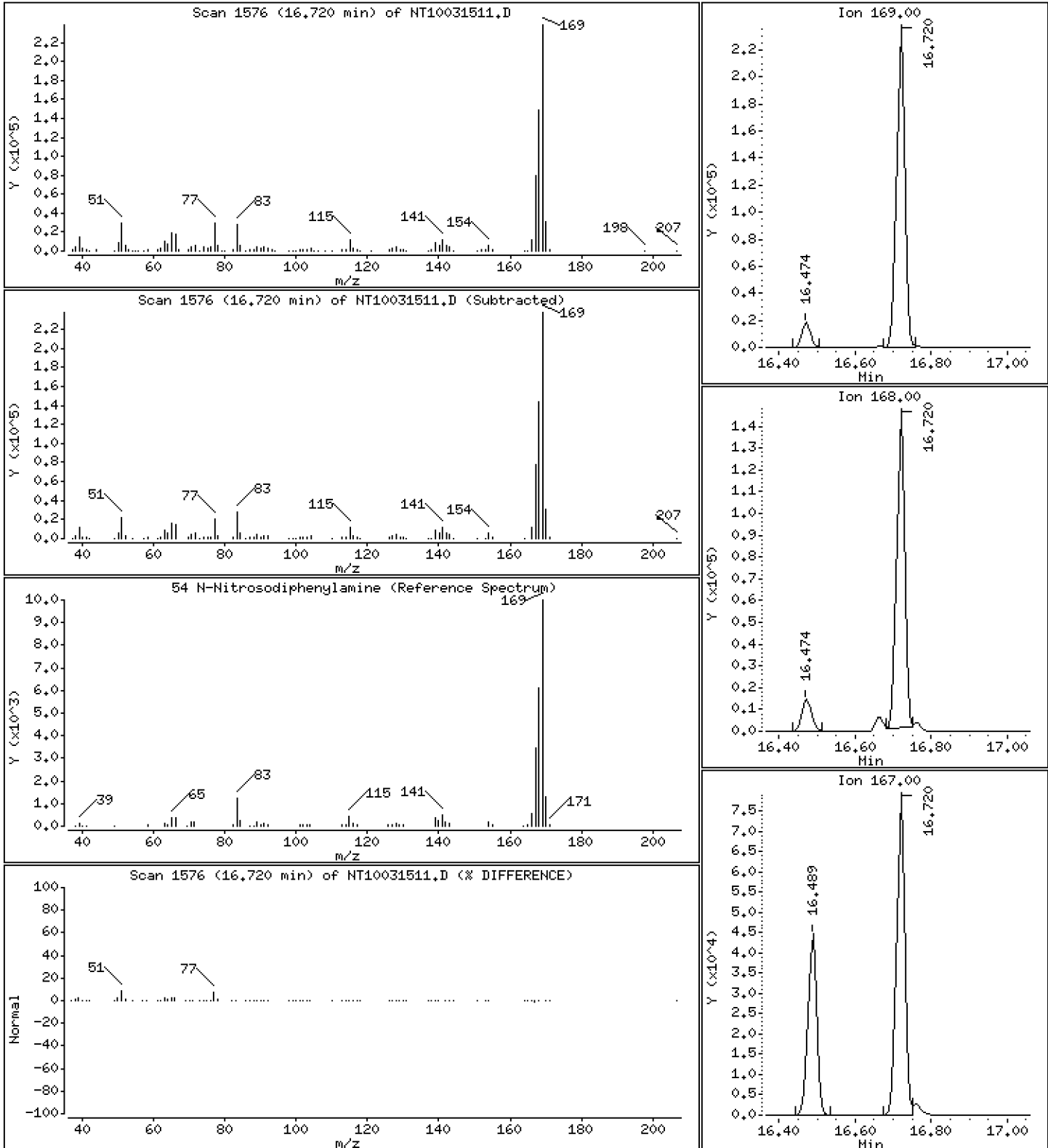
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,802 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

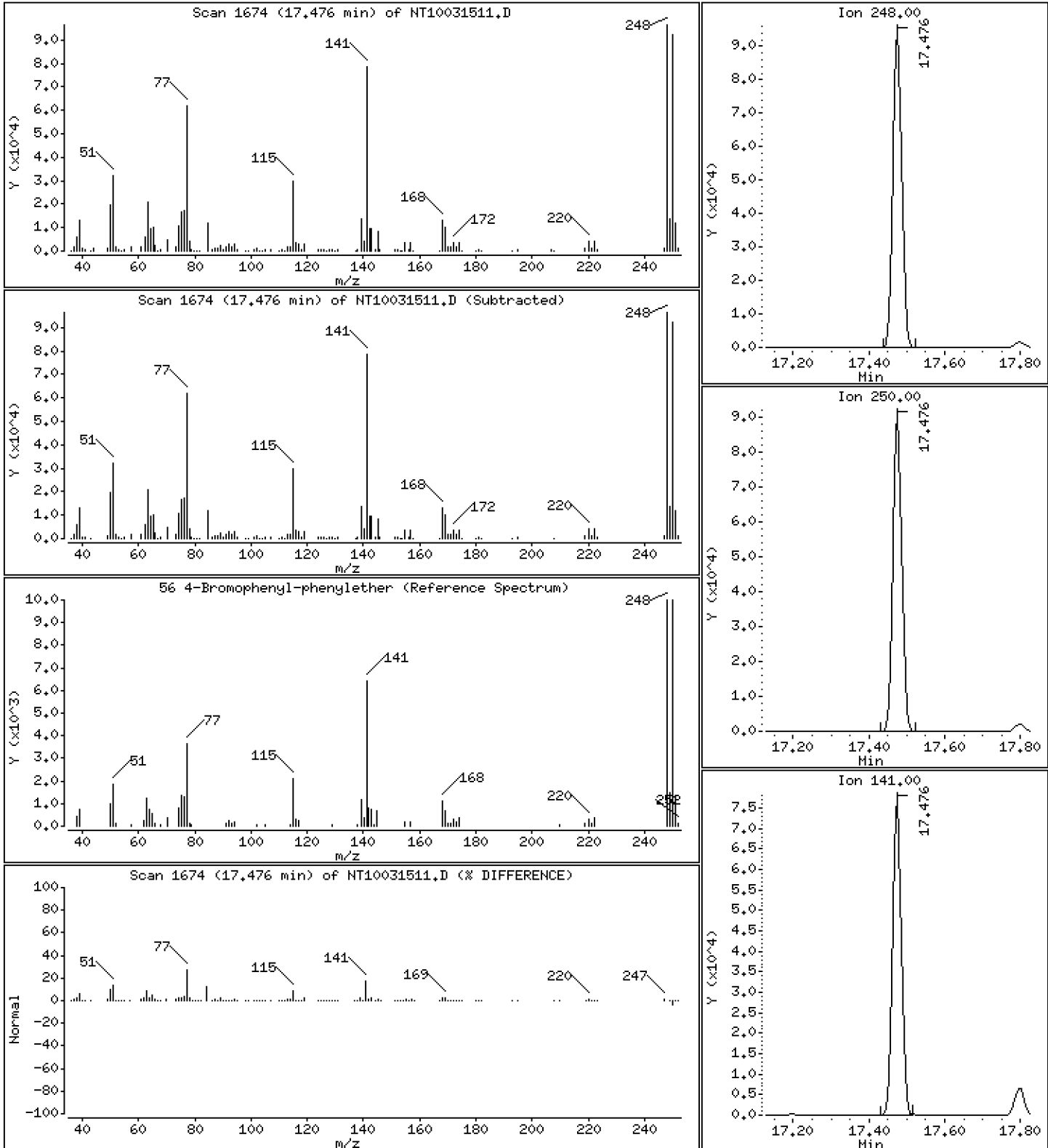
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,060 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

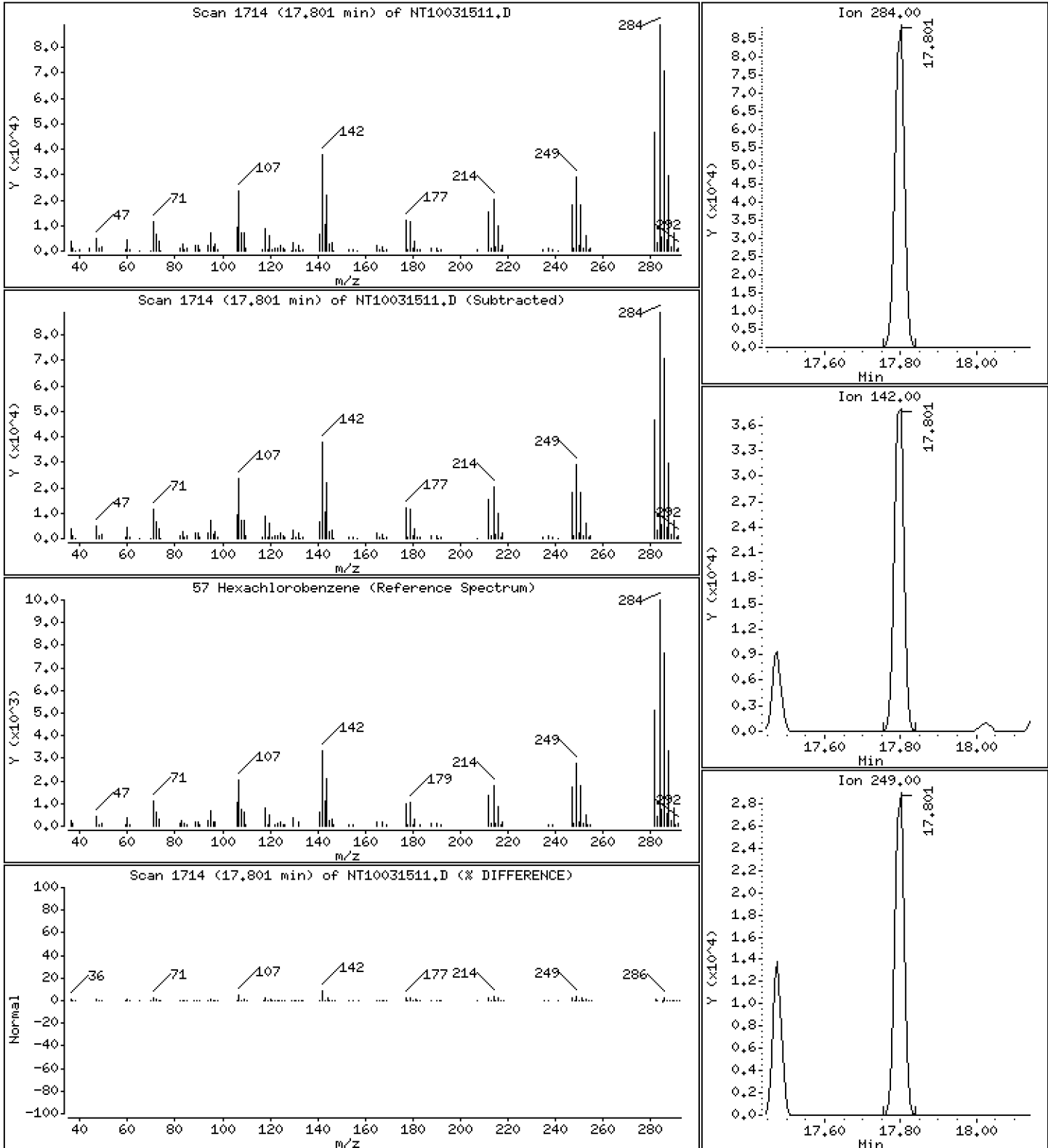
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,596 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

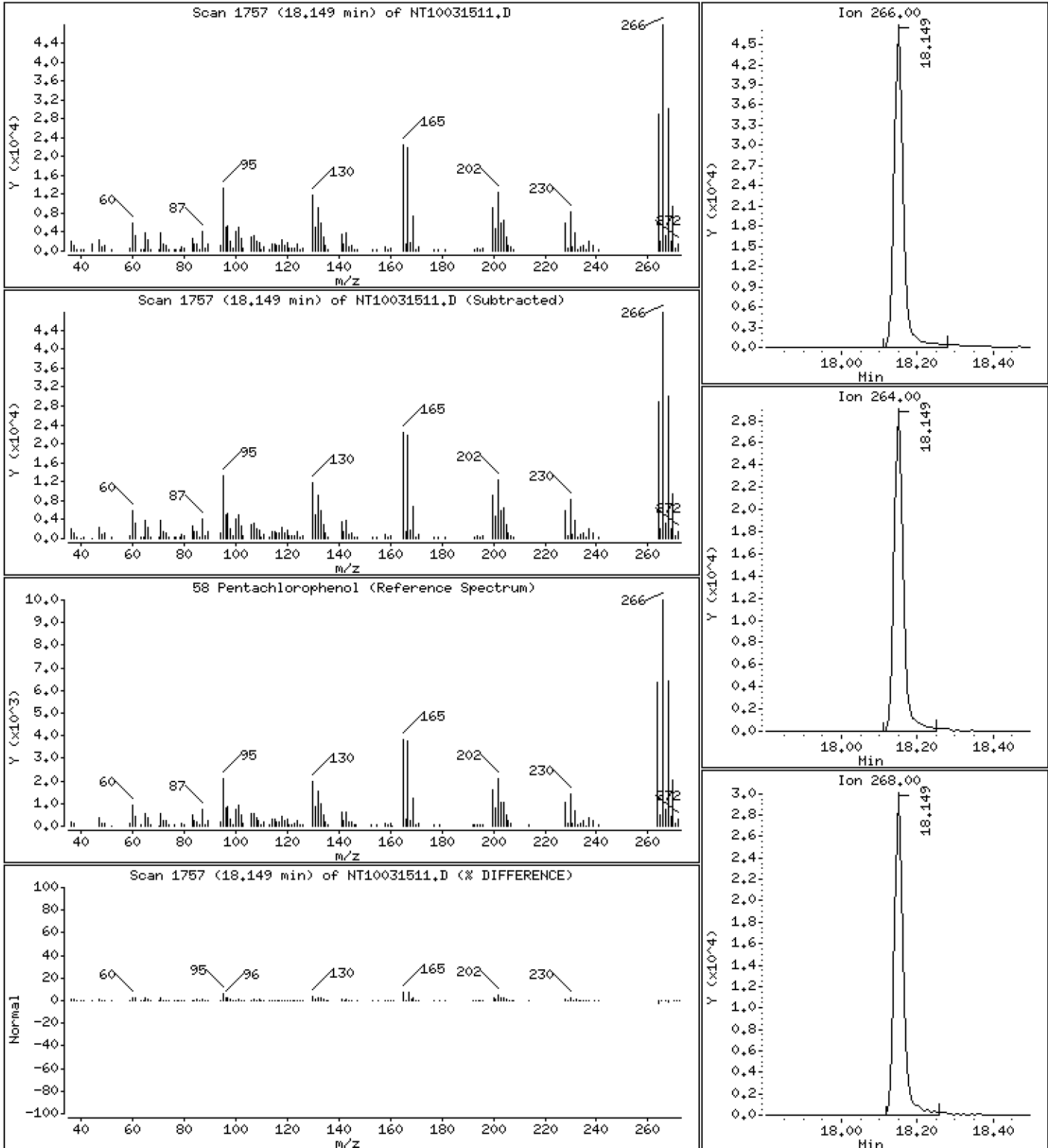
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 4,057 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

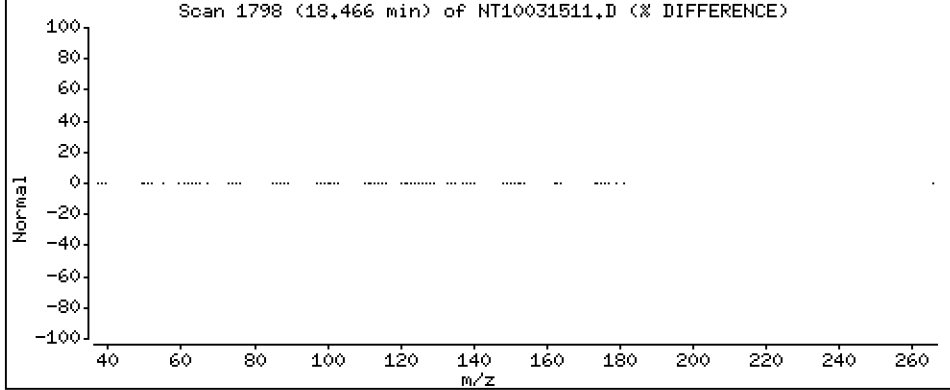
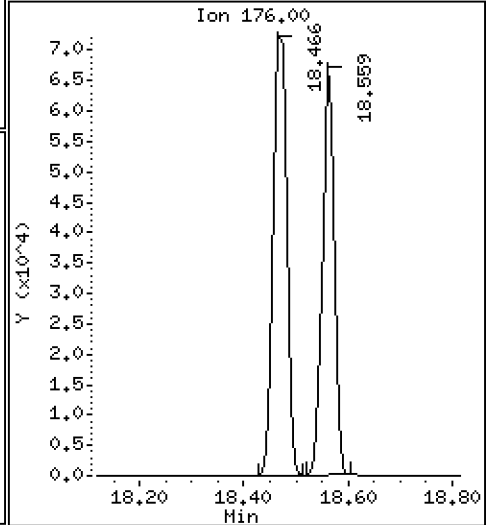
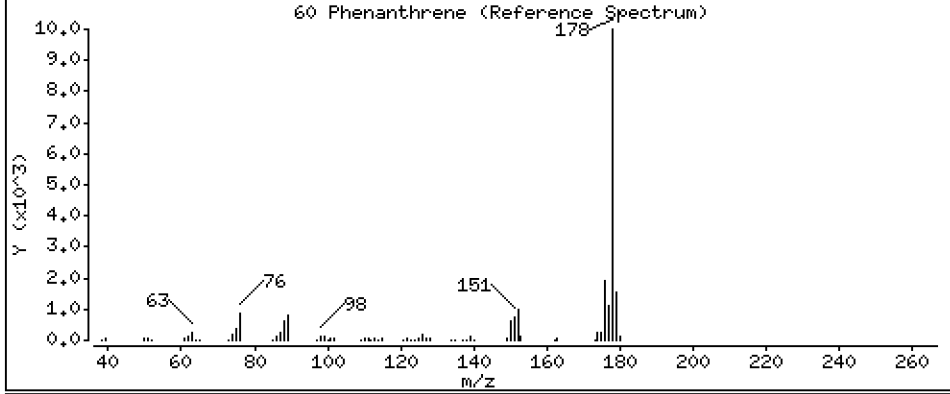
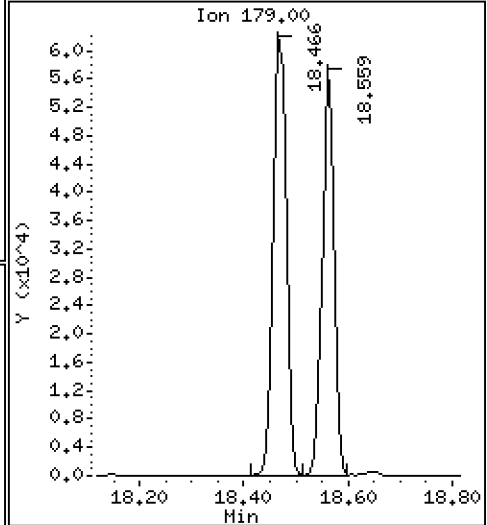
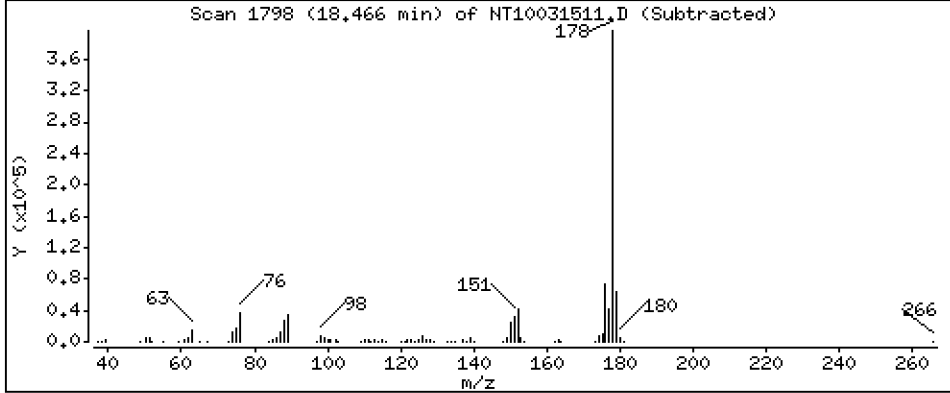
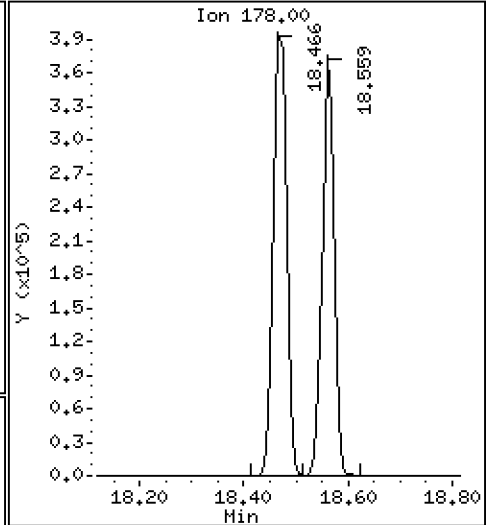
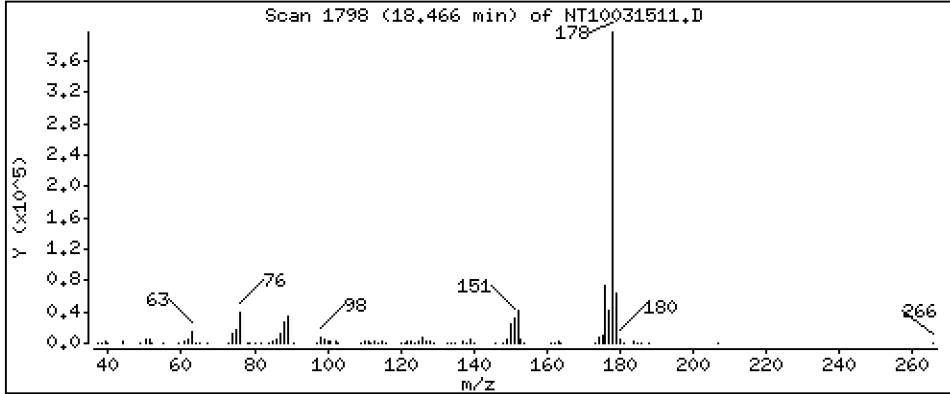
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,602 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

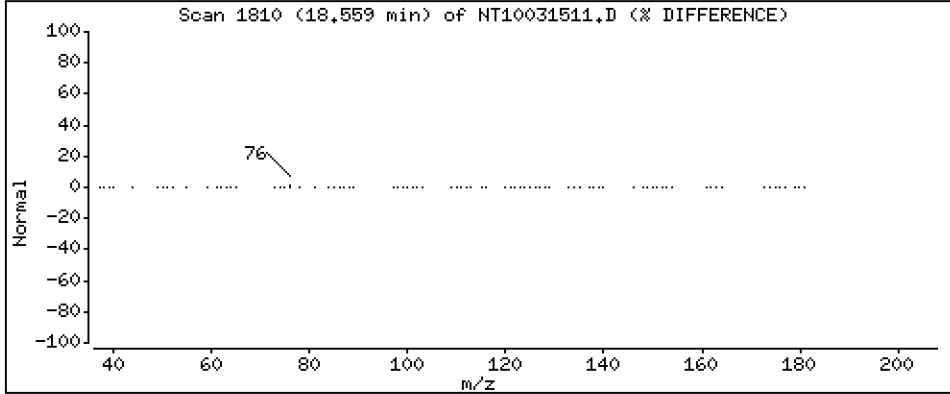
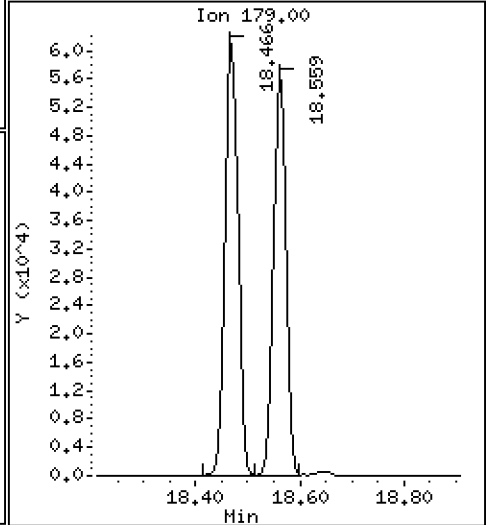
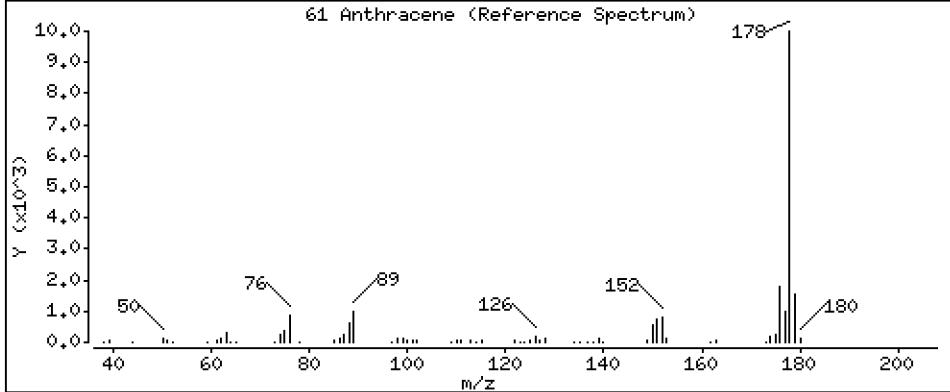
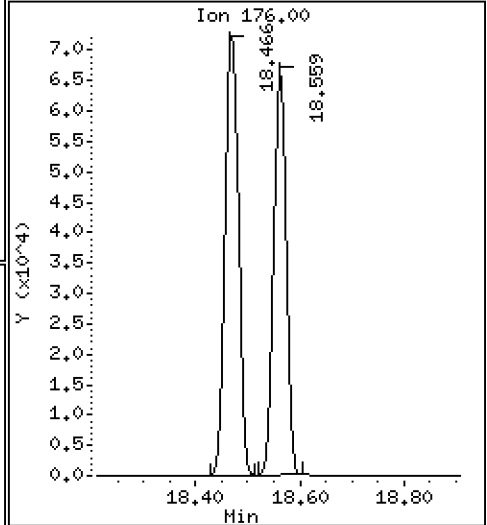
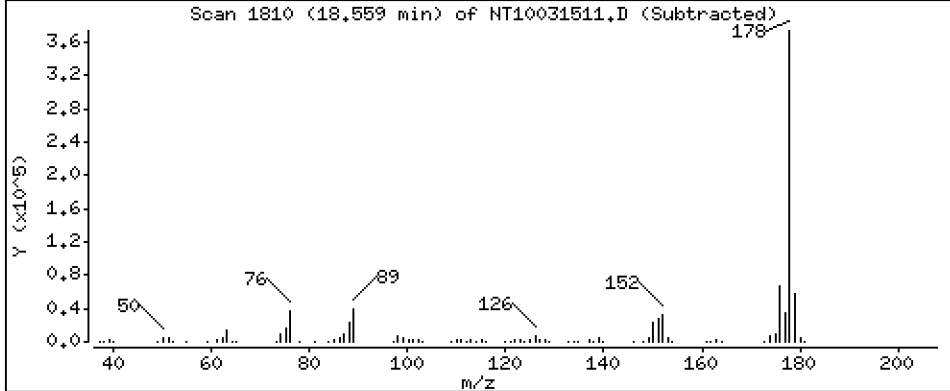
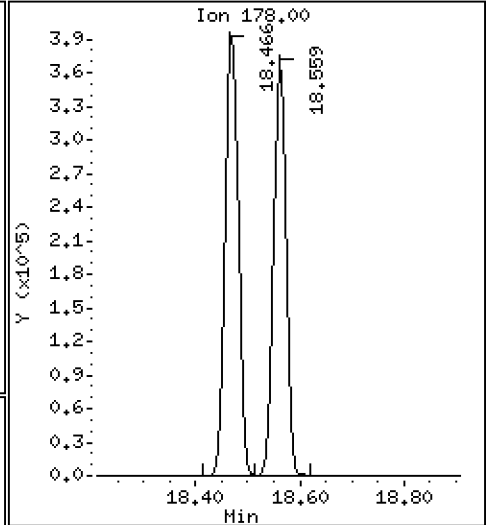
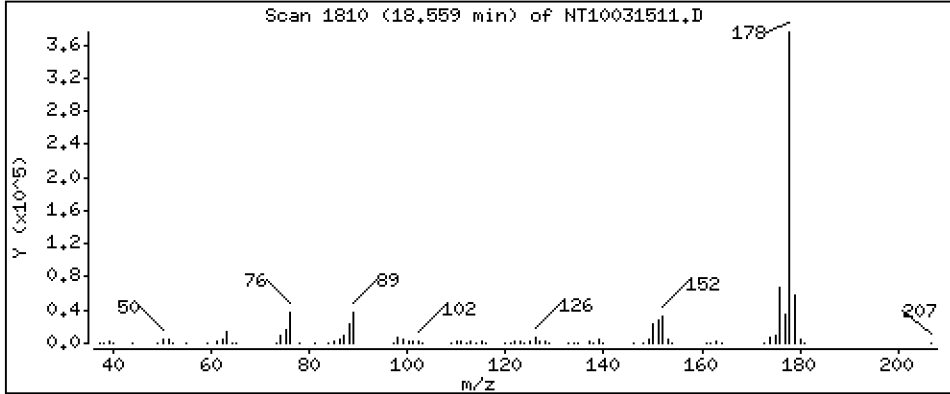
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,167 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

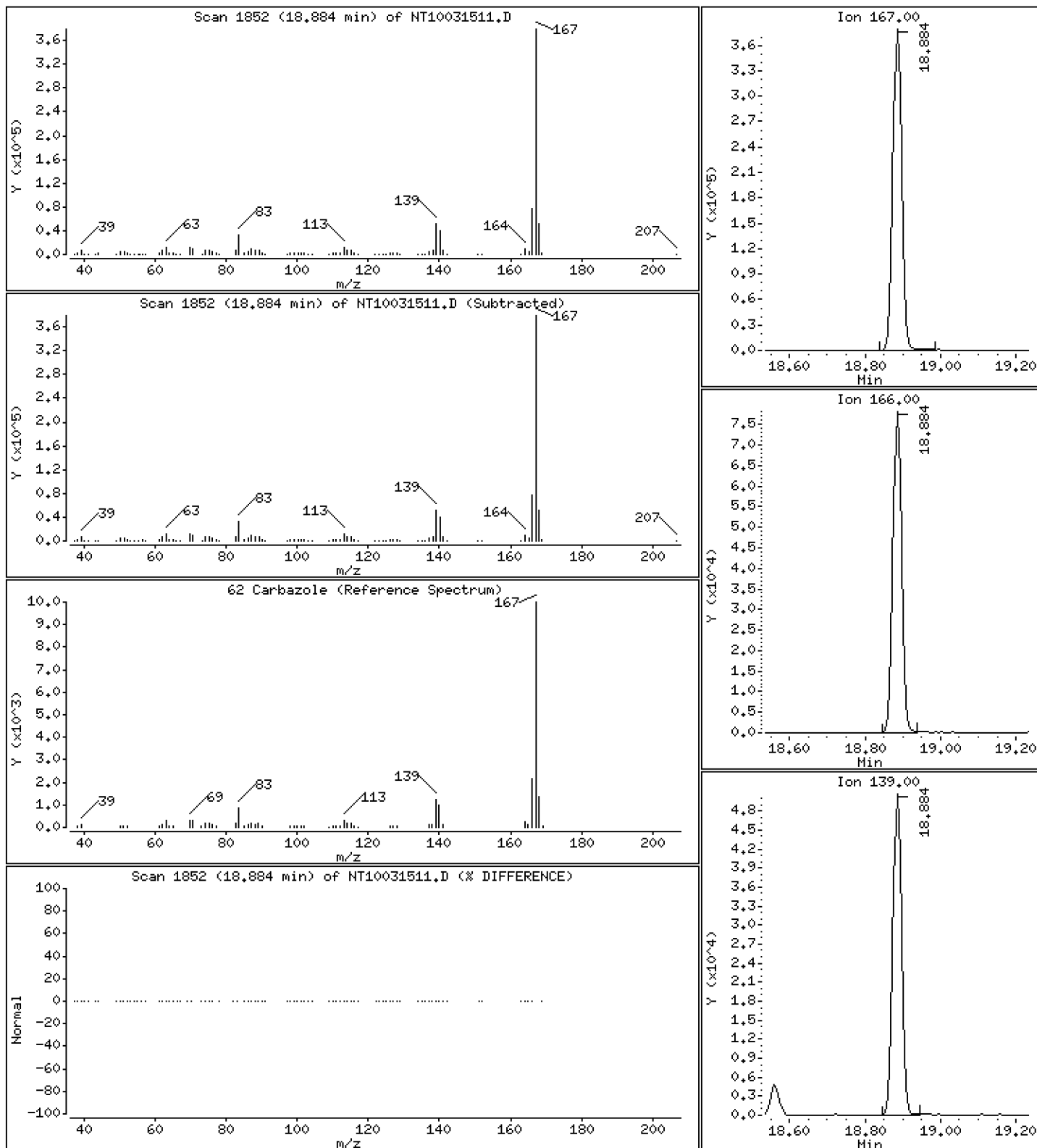
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,730 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

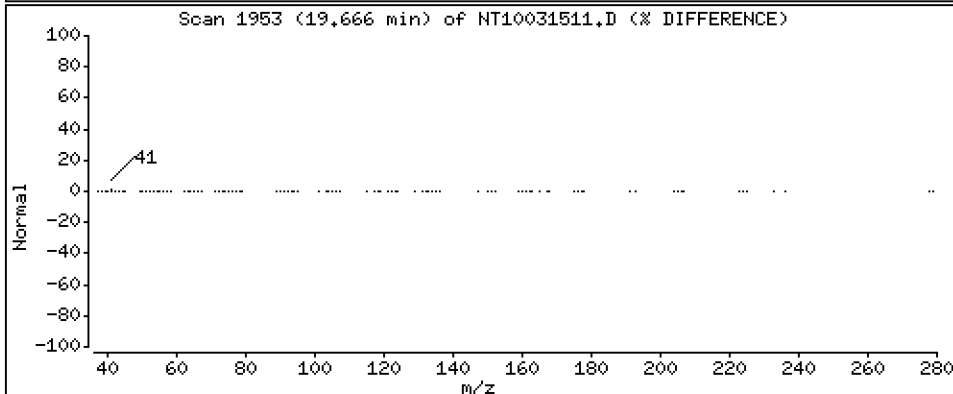
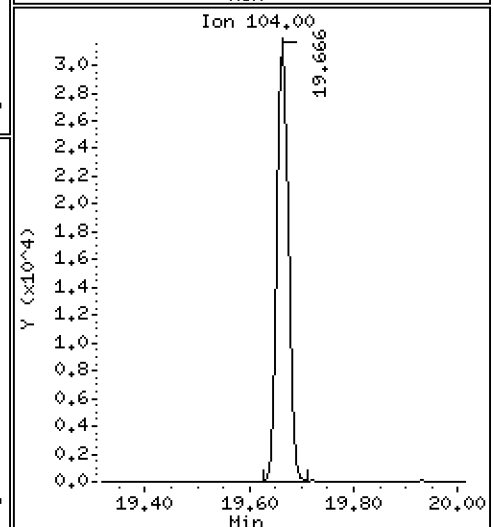
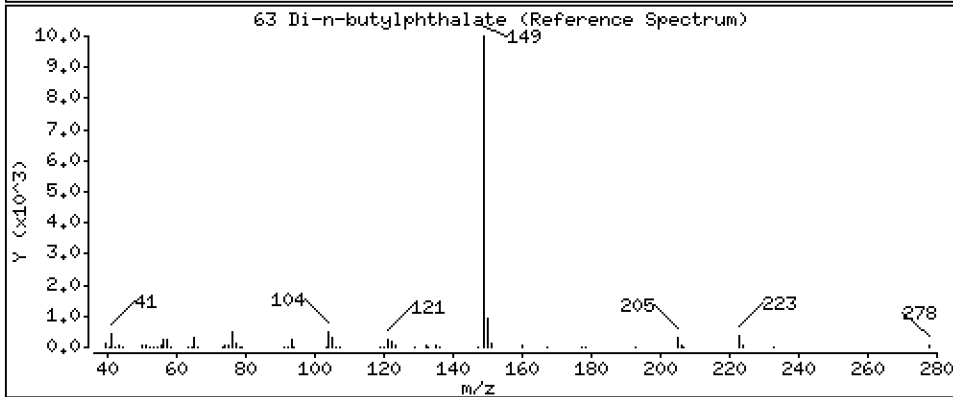
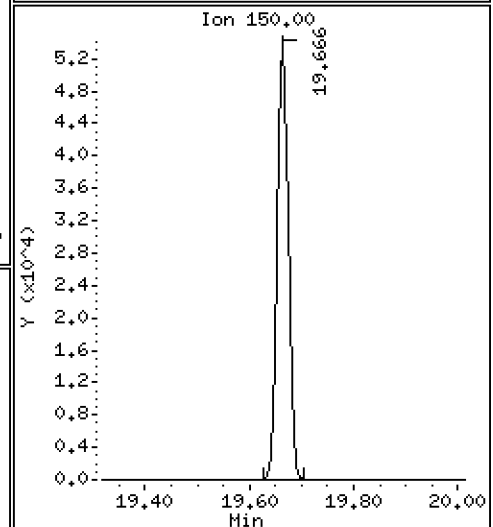
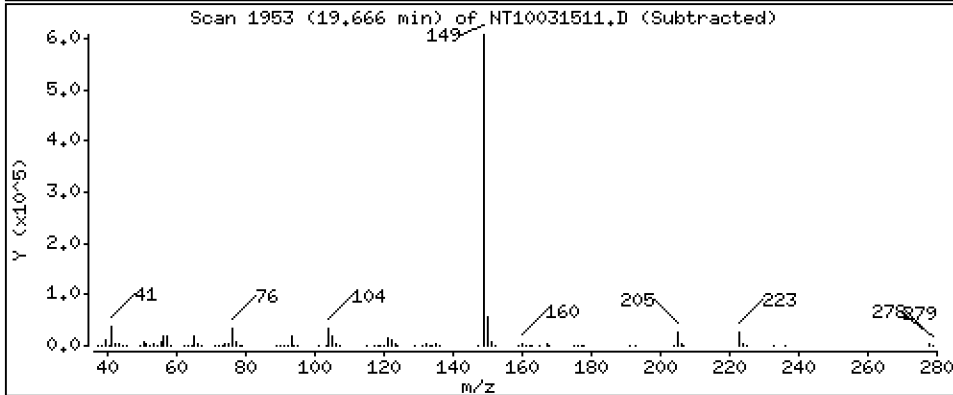
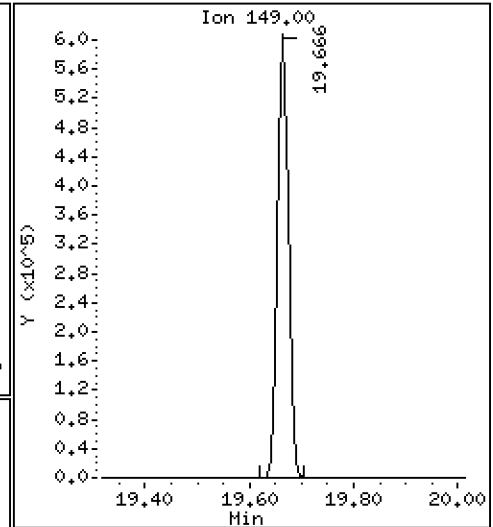
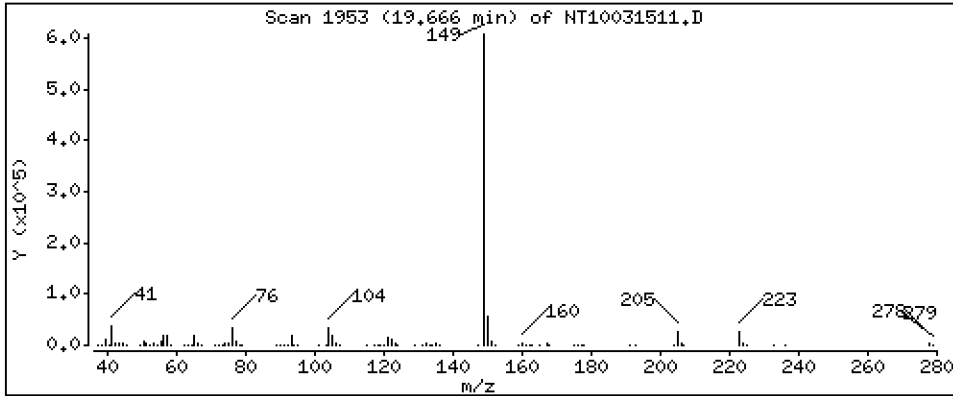
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,967 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

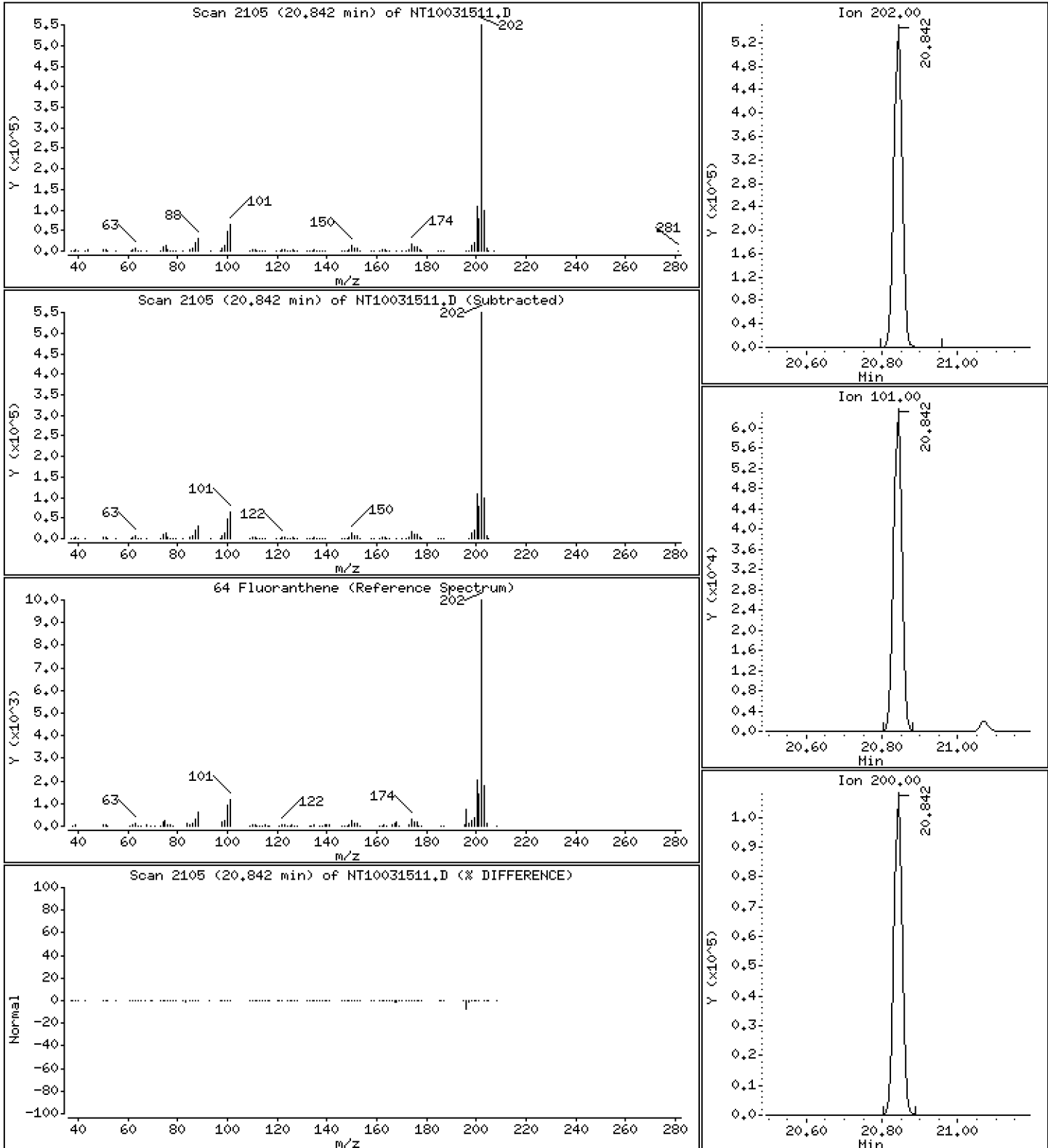
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,472 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

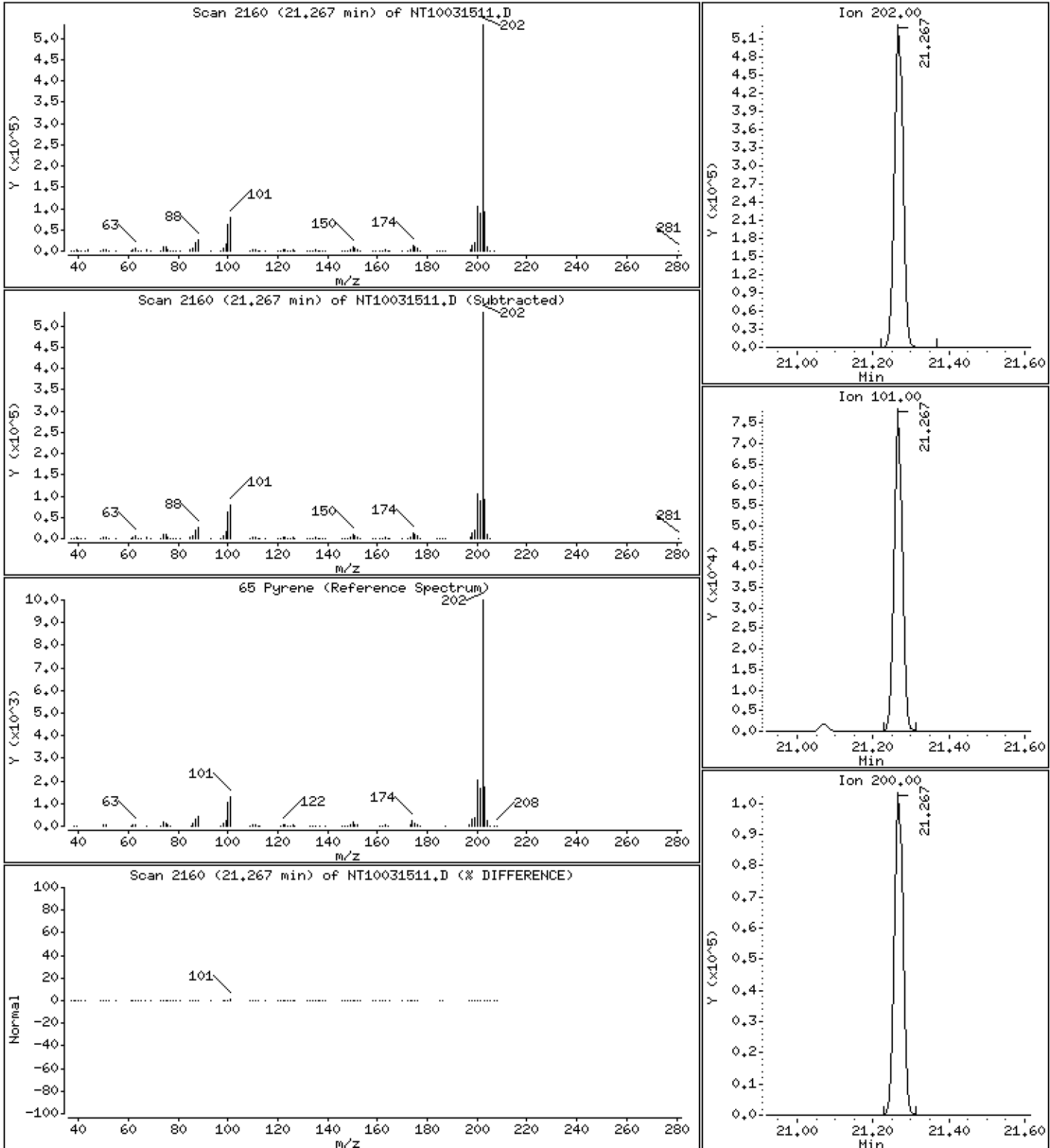
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,339 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

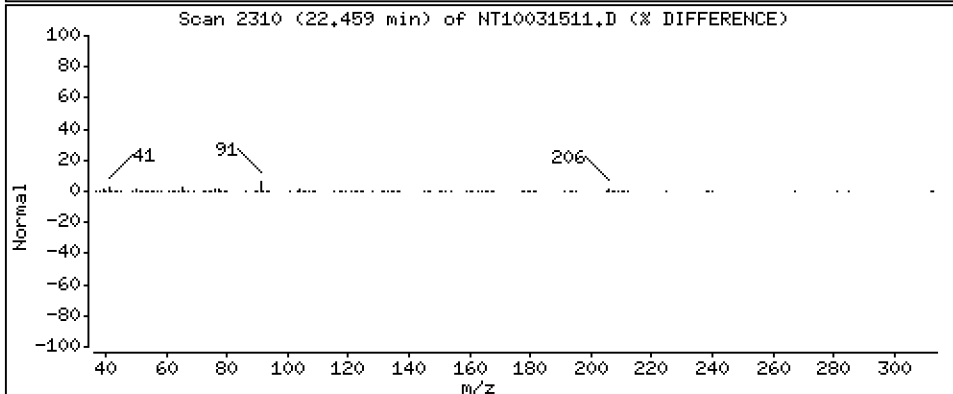
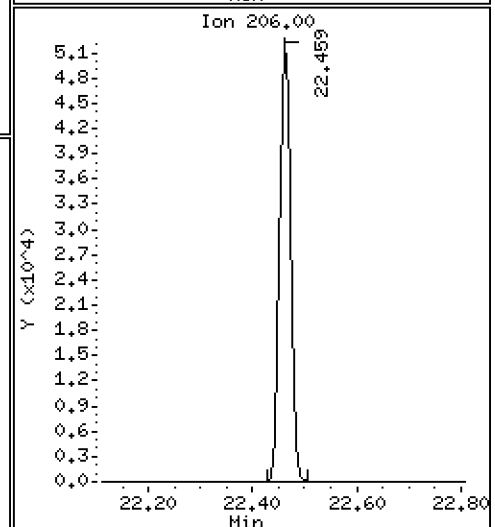
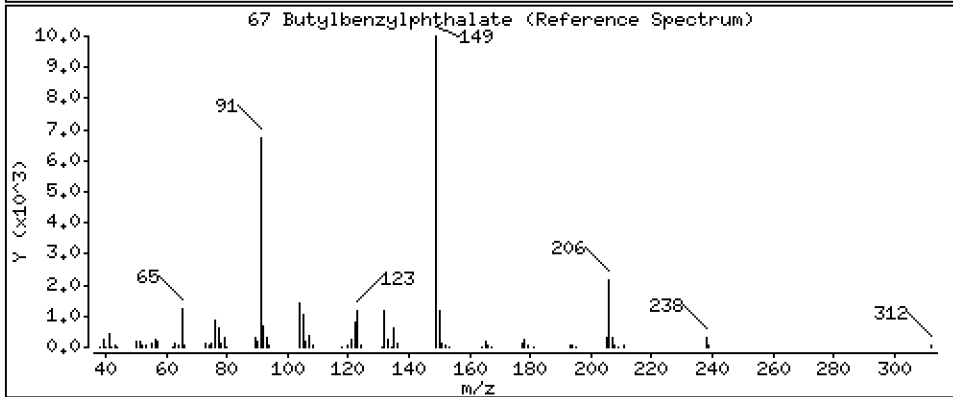
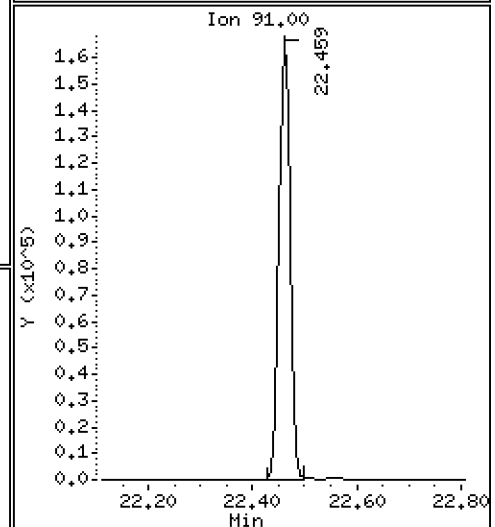
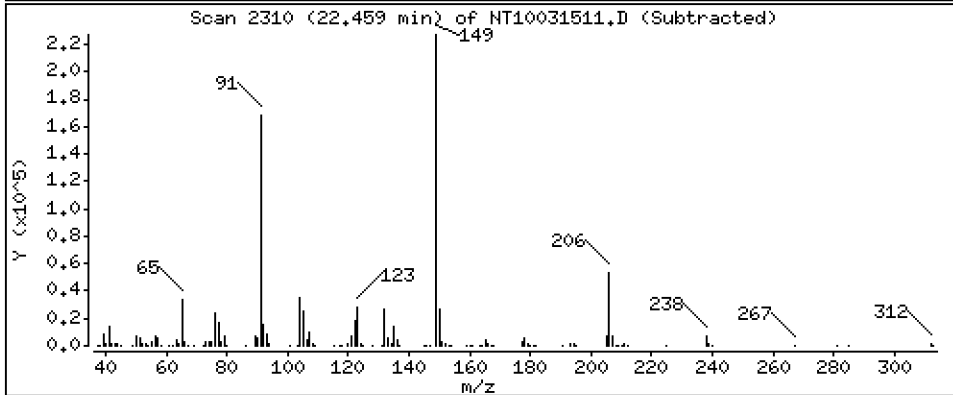
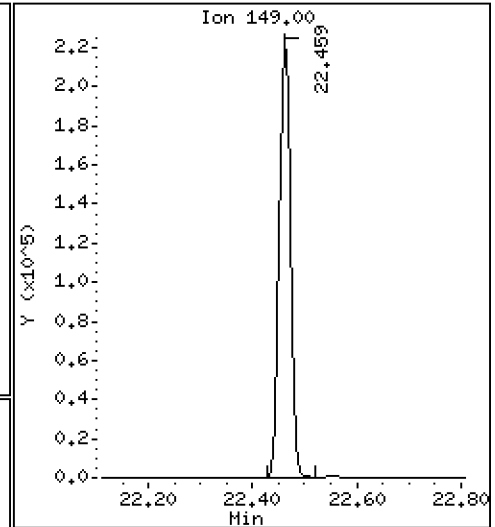
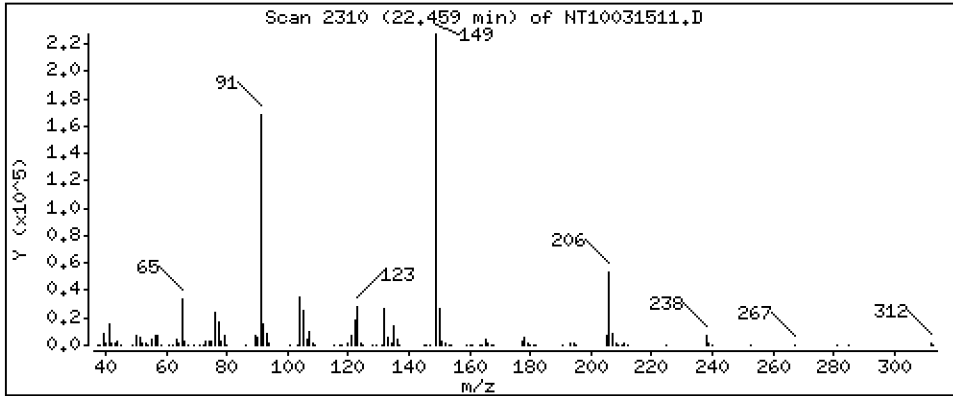
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,834 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

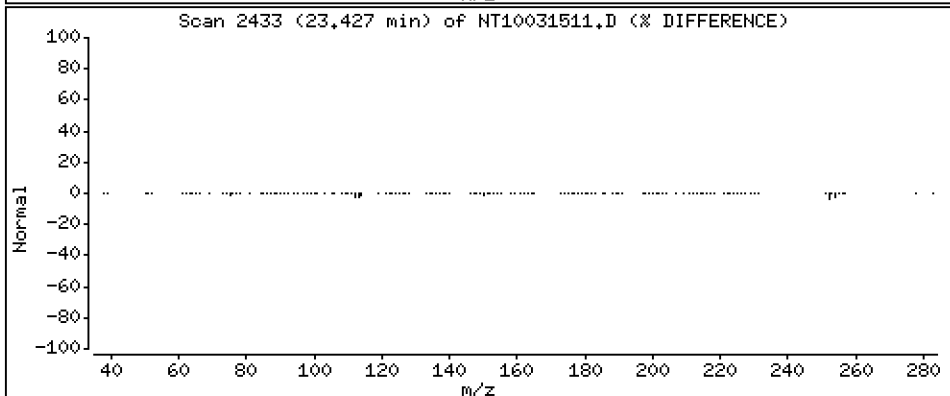
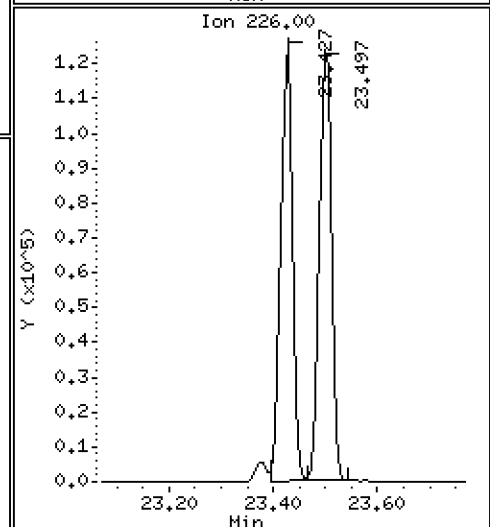
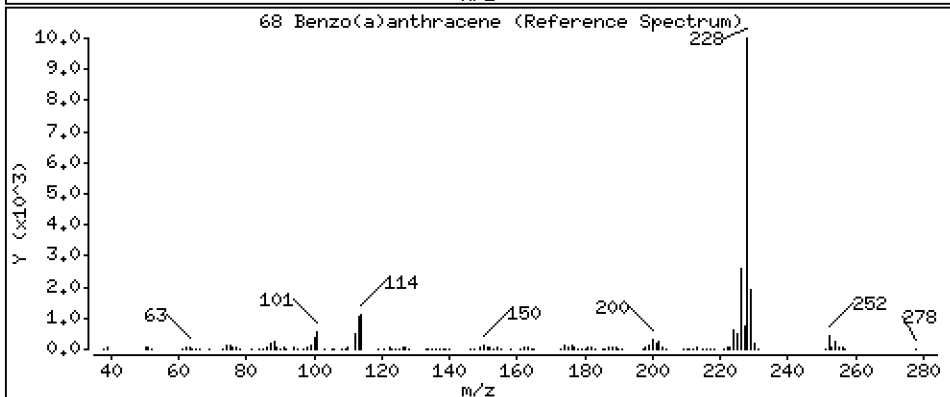
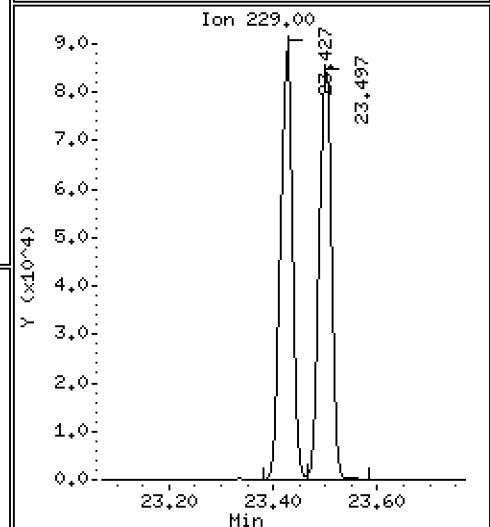
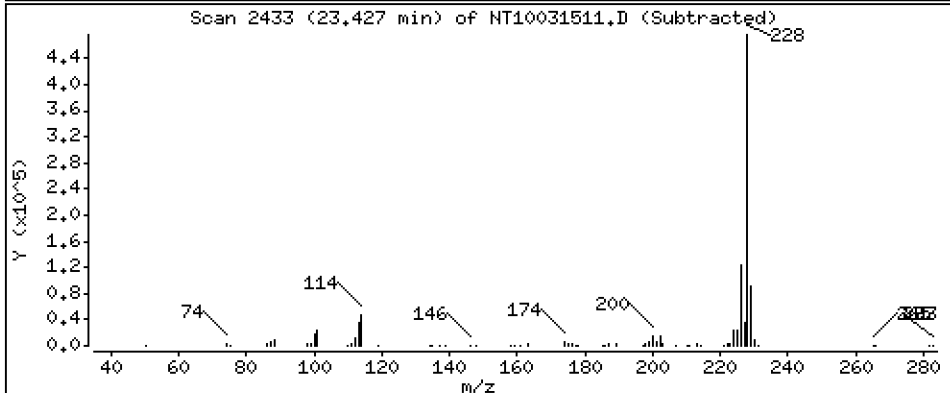
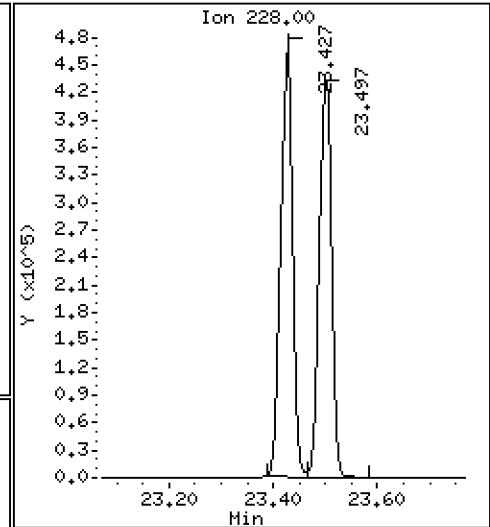
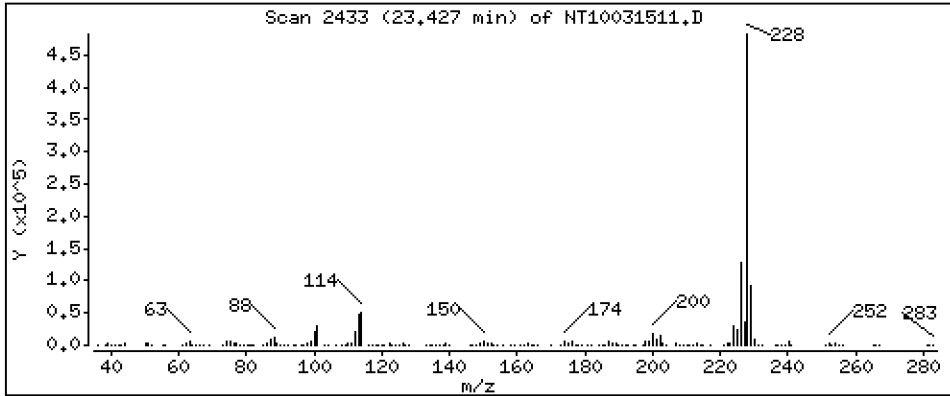
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,647 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

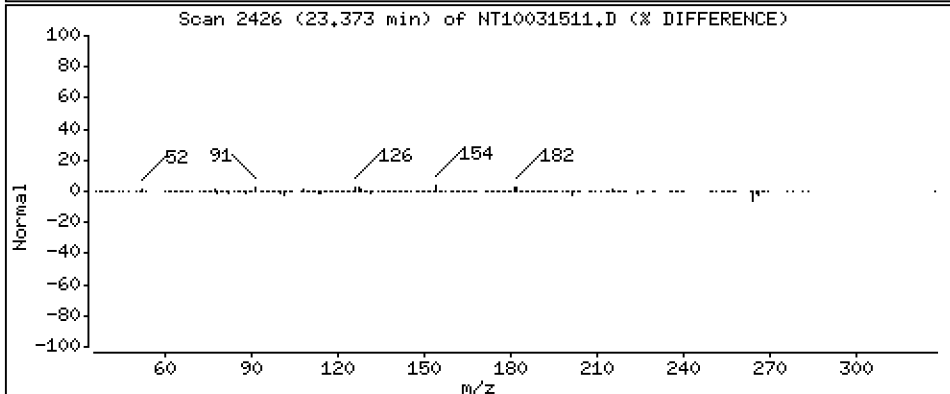
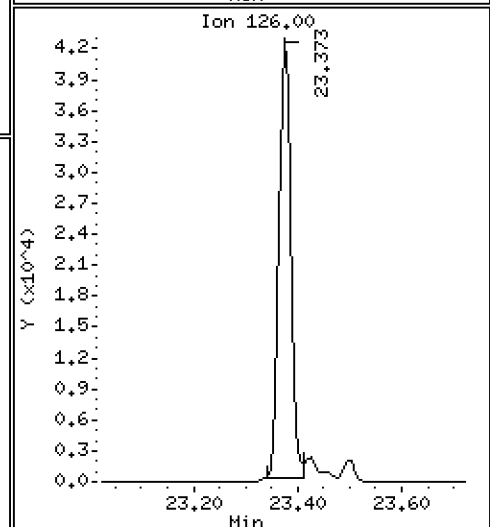
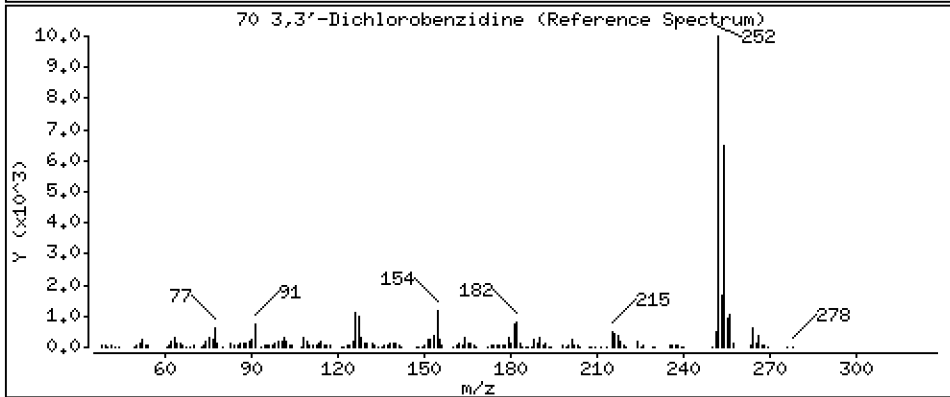
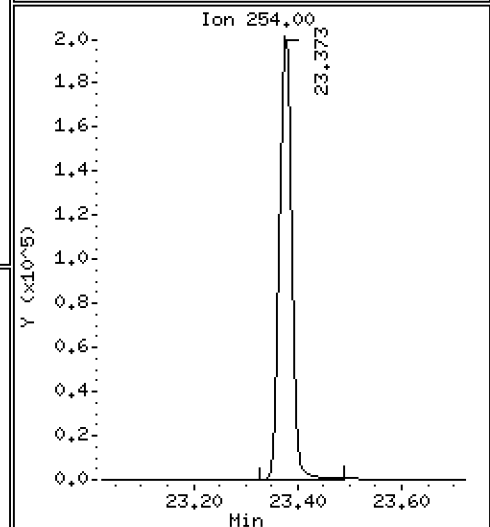
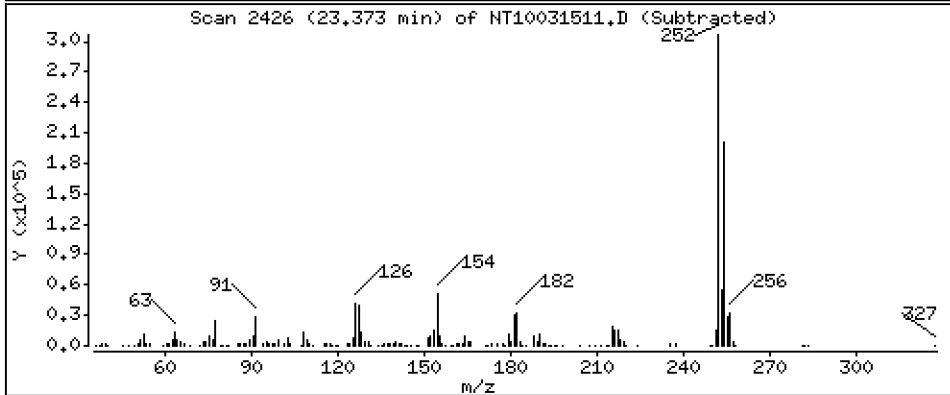
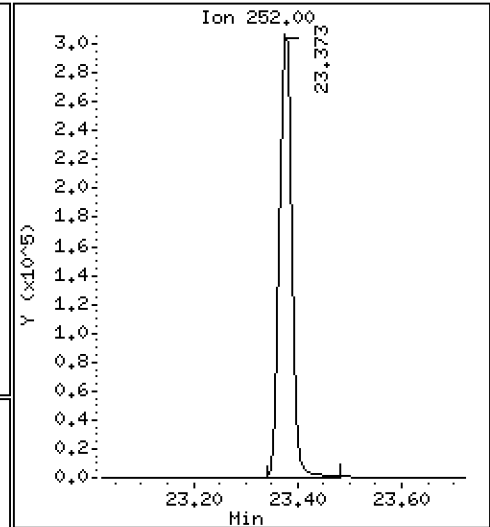
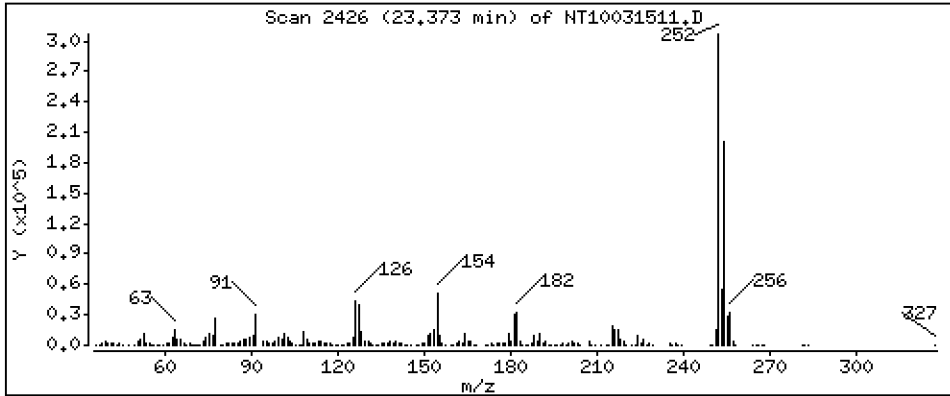
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 9,817 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

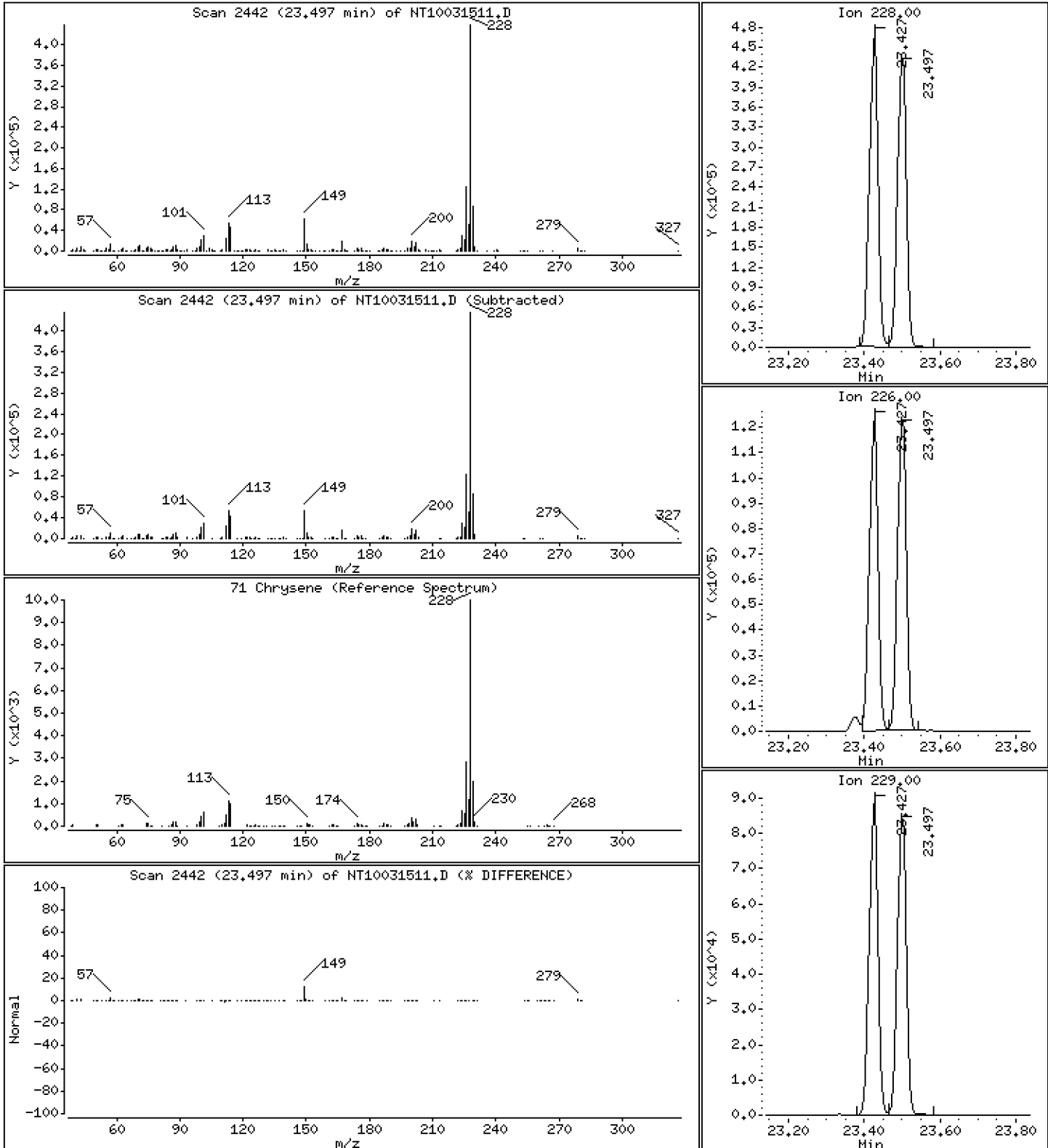
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,510 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

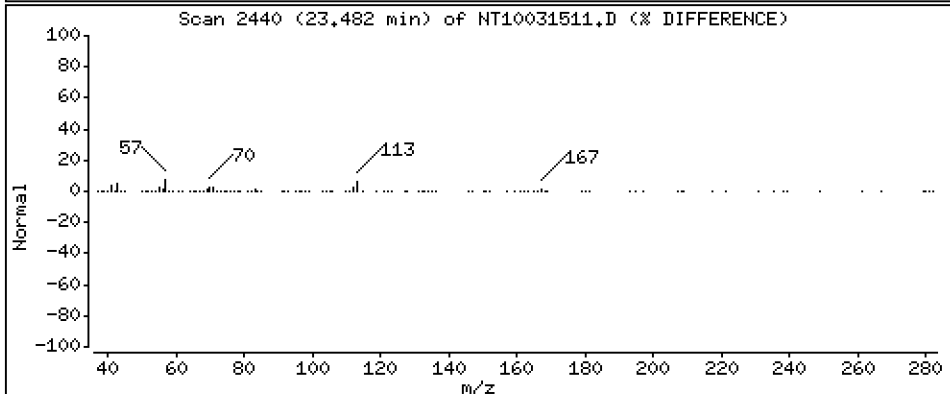
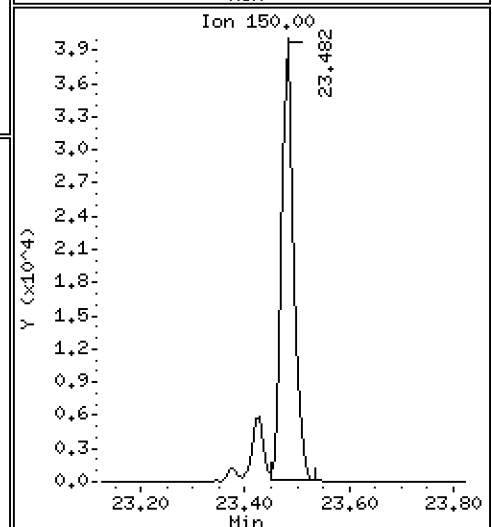
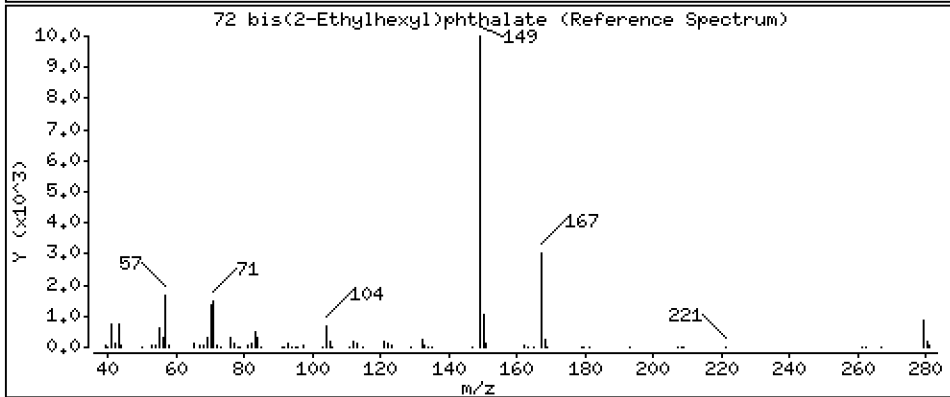
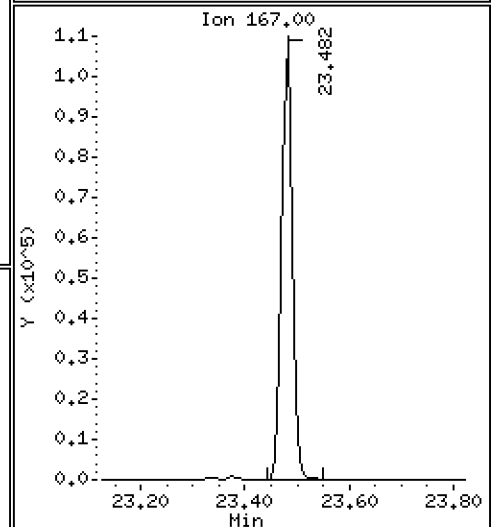
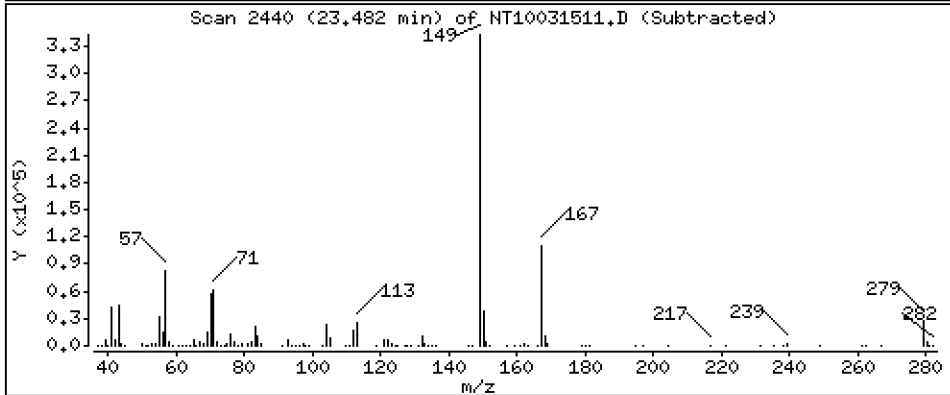
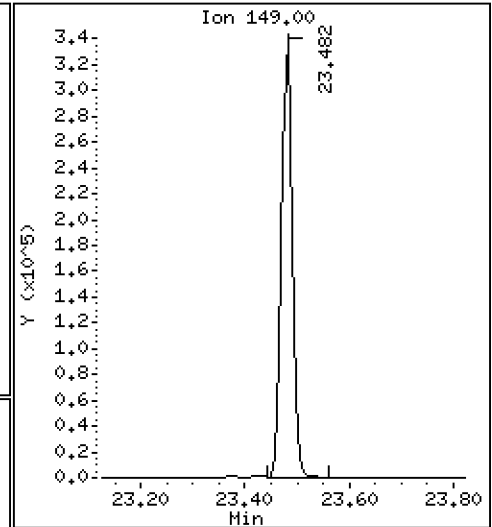
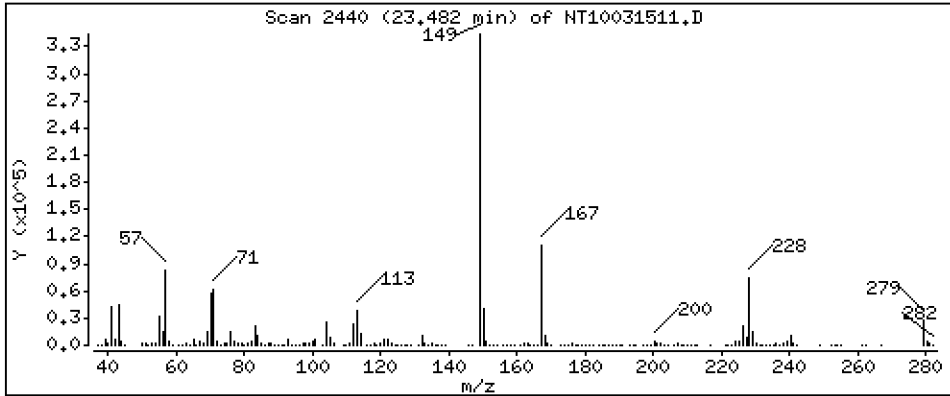
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,680 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

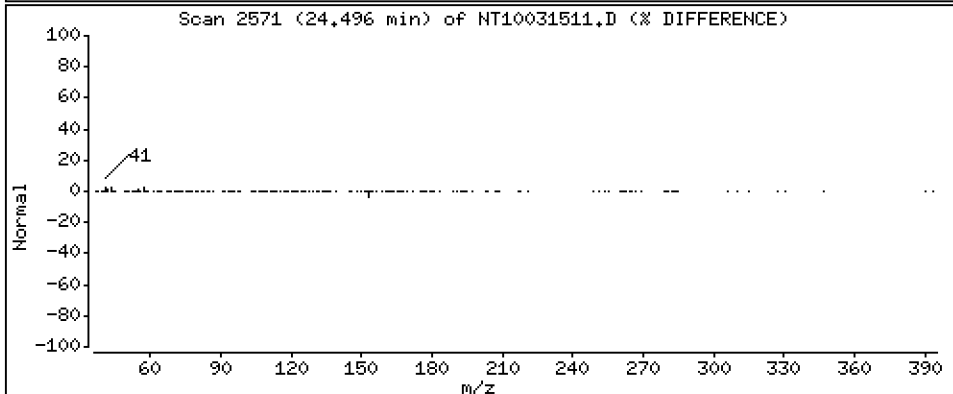
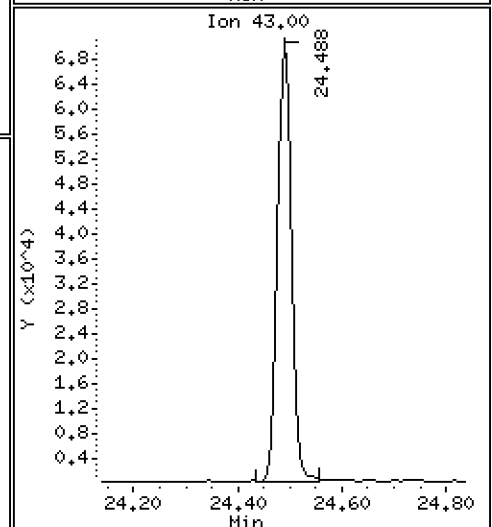
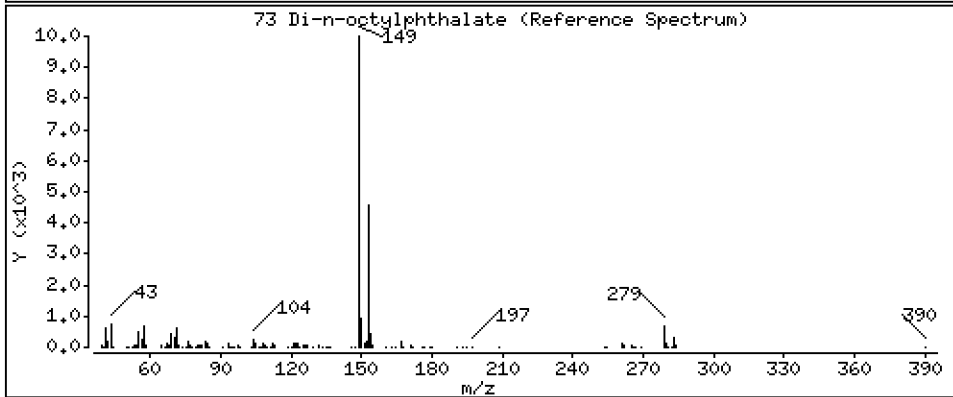
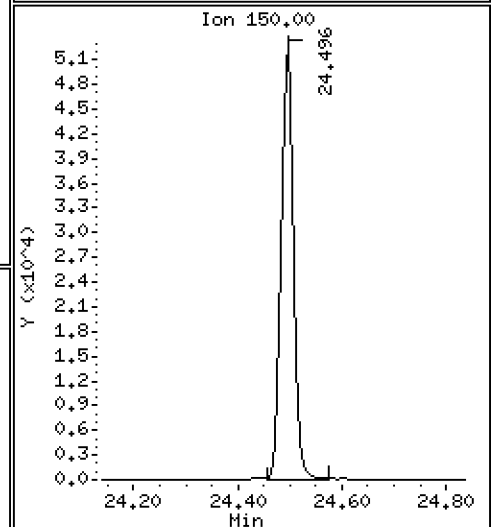
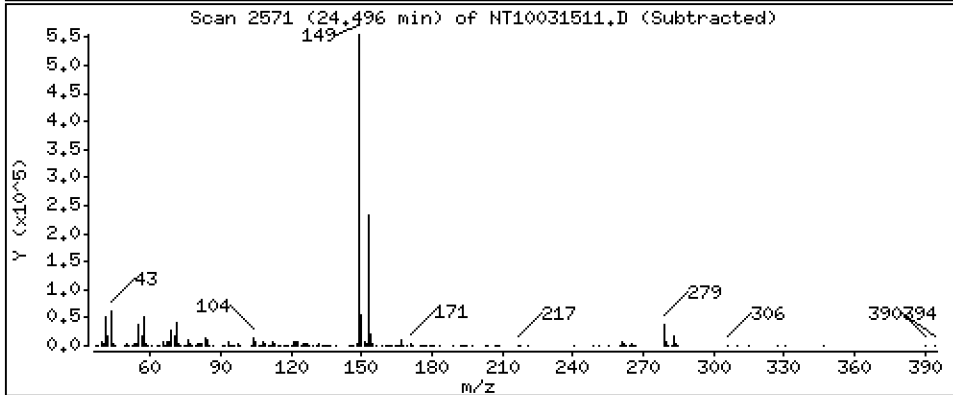
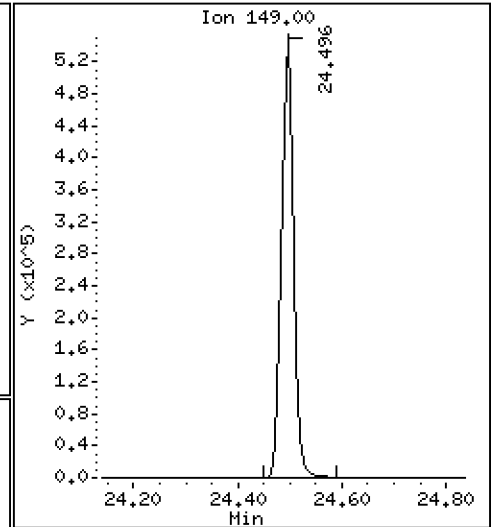
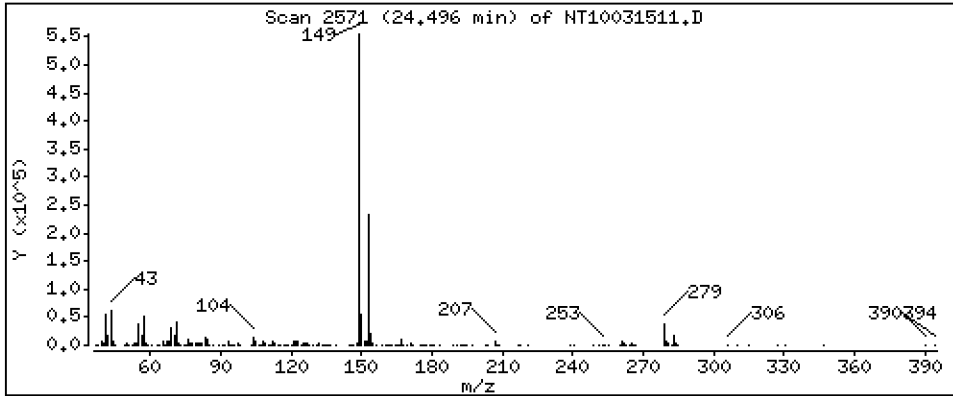
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,947 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

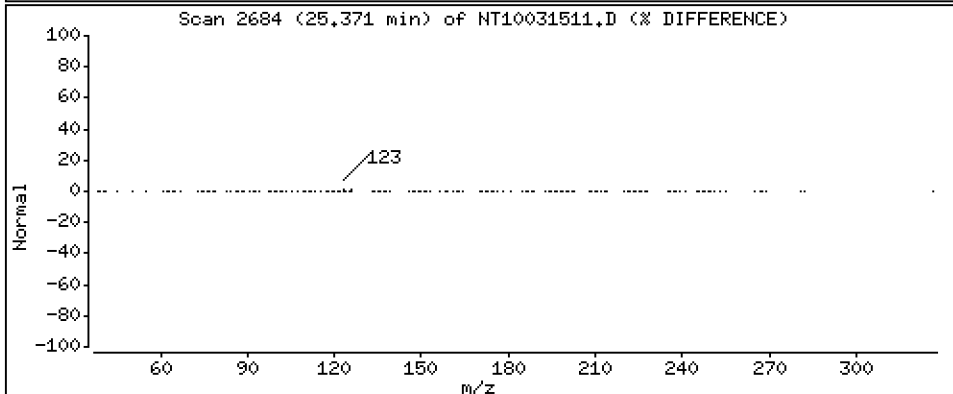
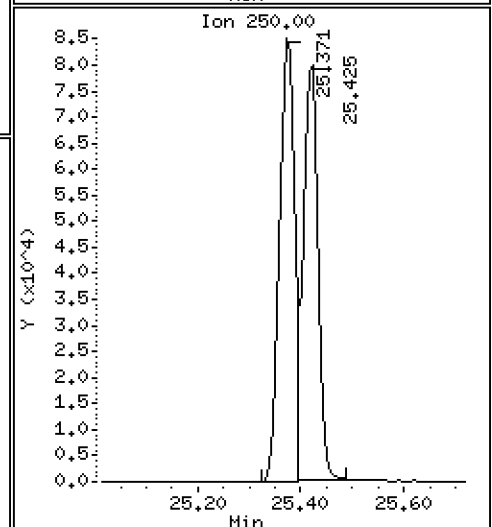
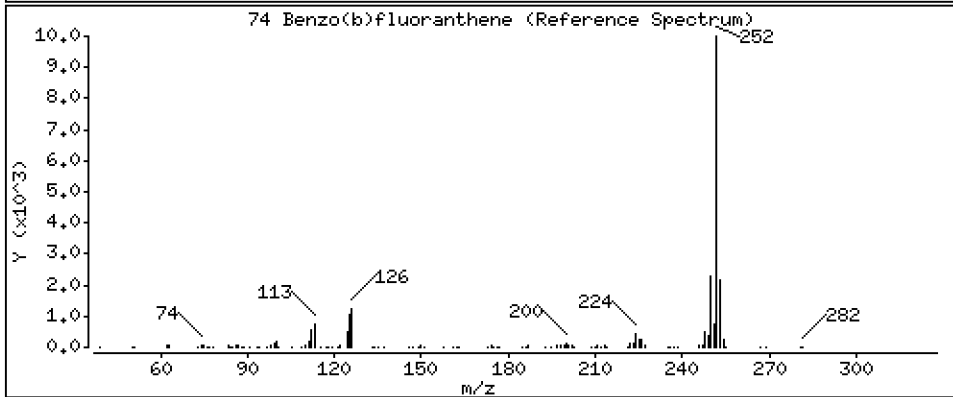
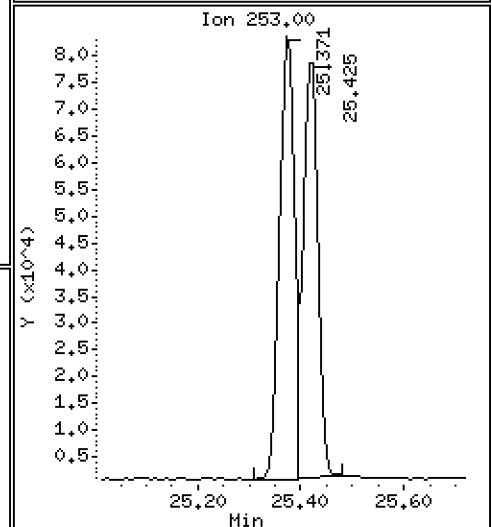
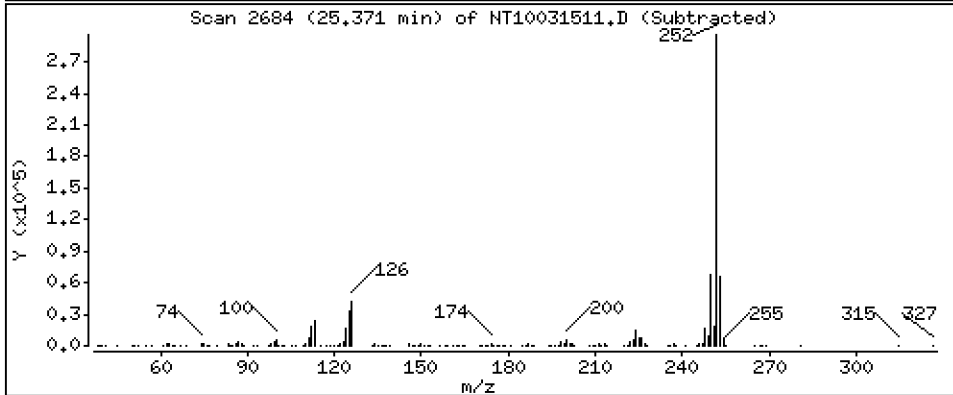
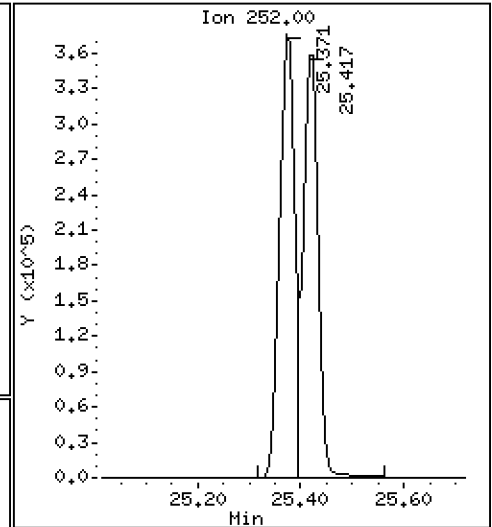
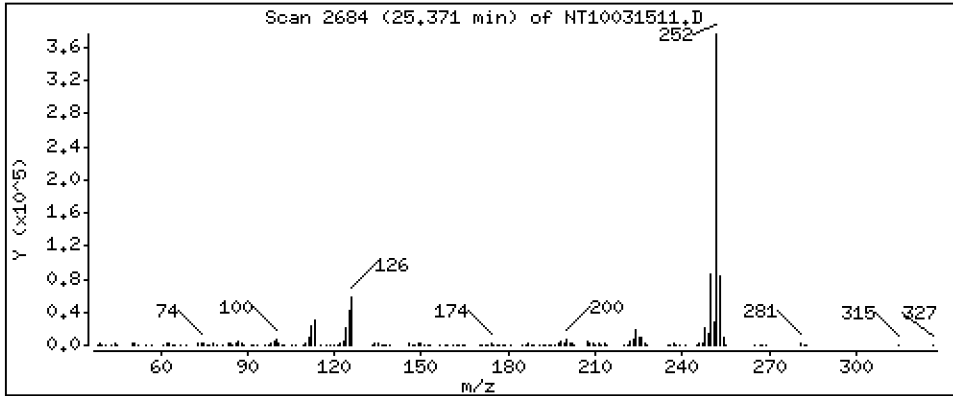
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,602 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

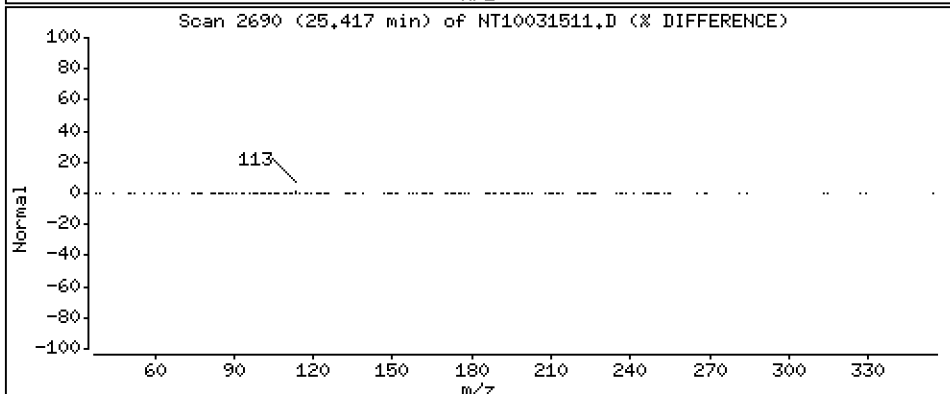
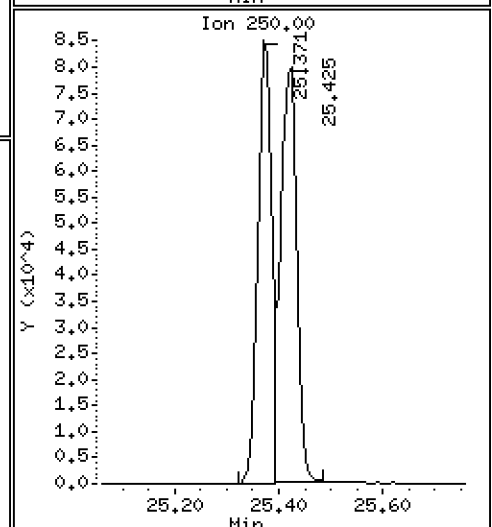
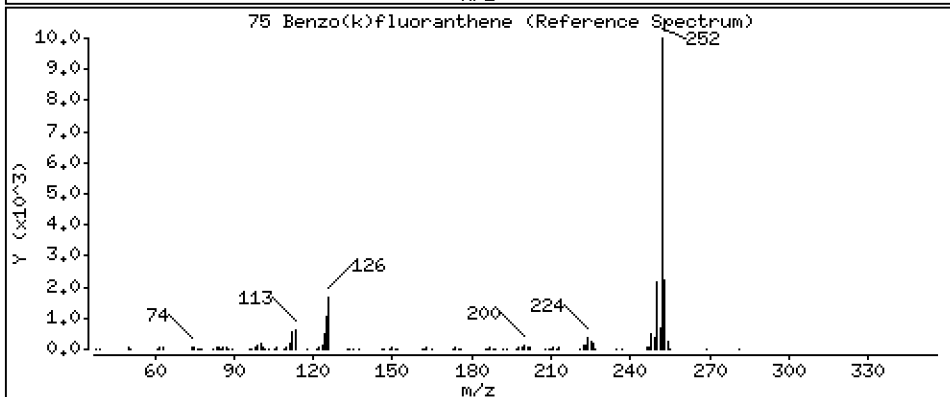
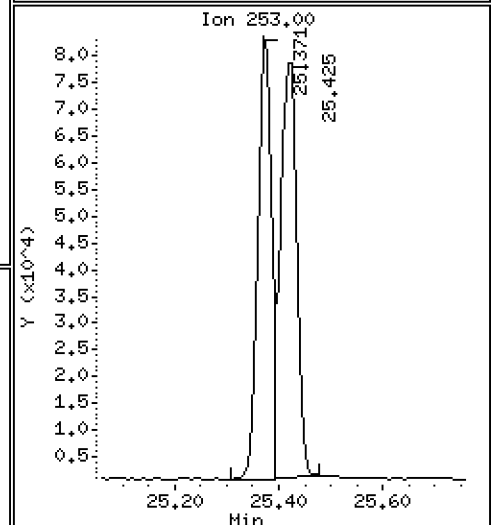
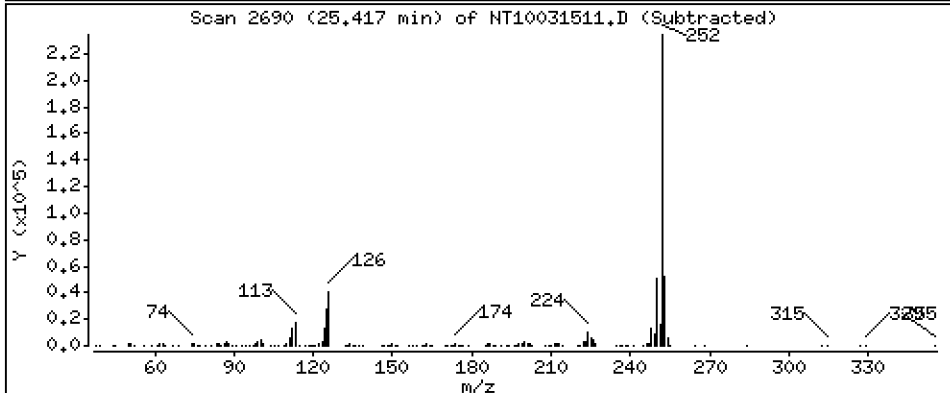
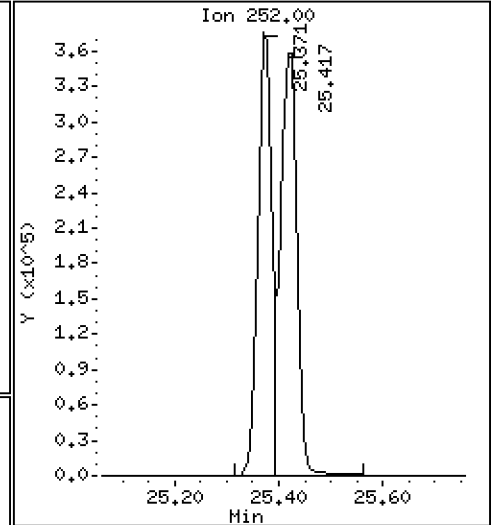
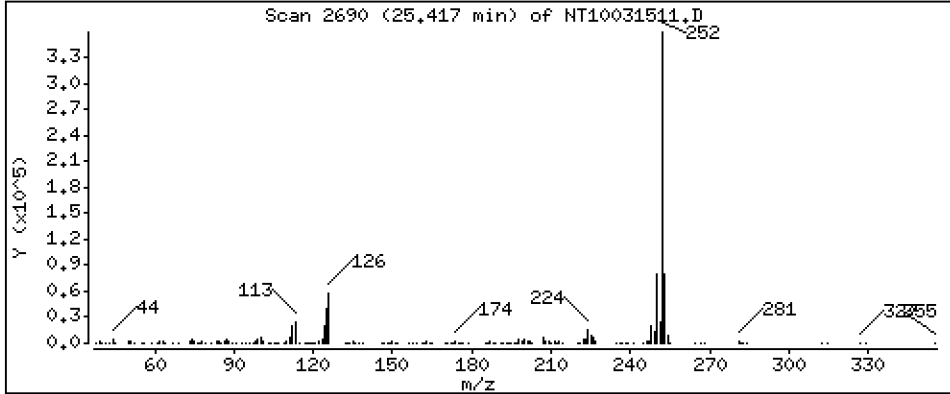
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,898 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

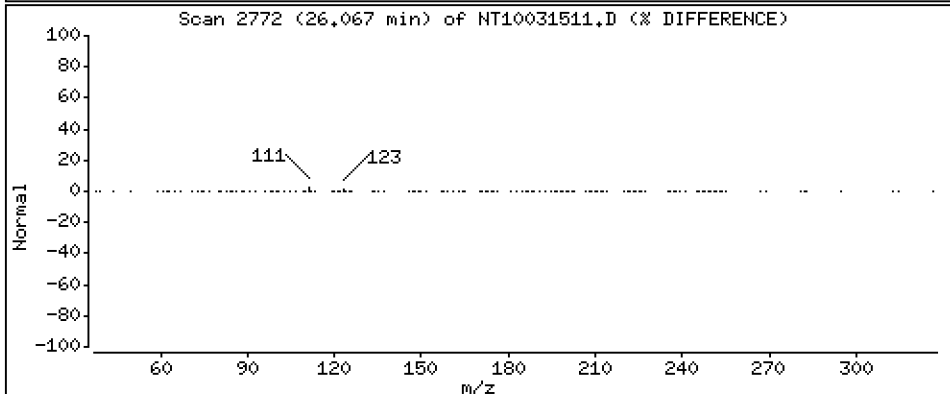
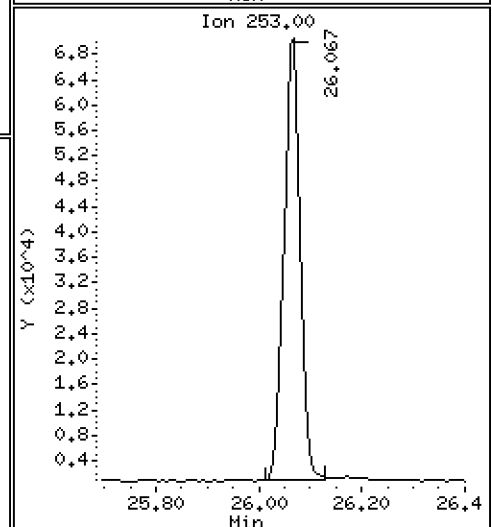
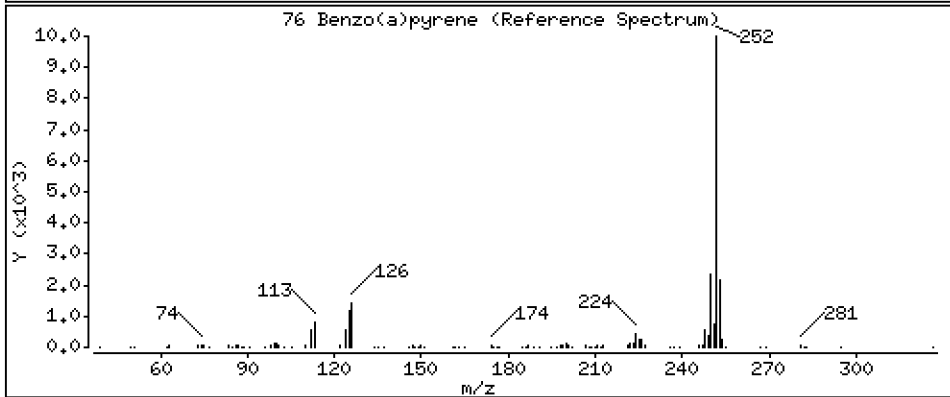
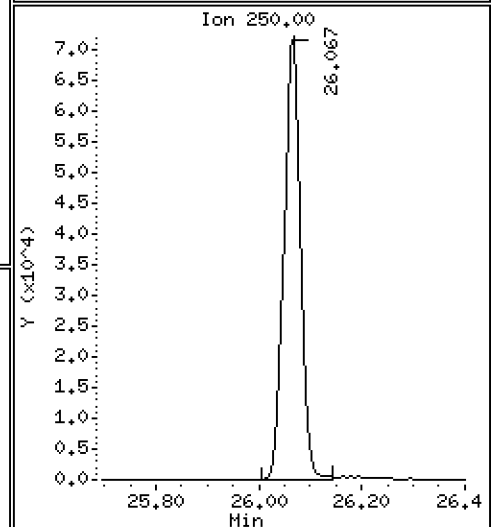
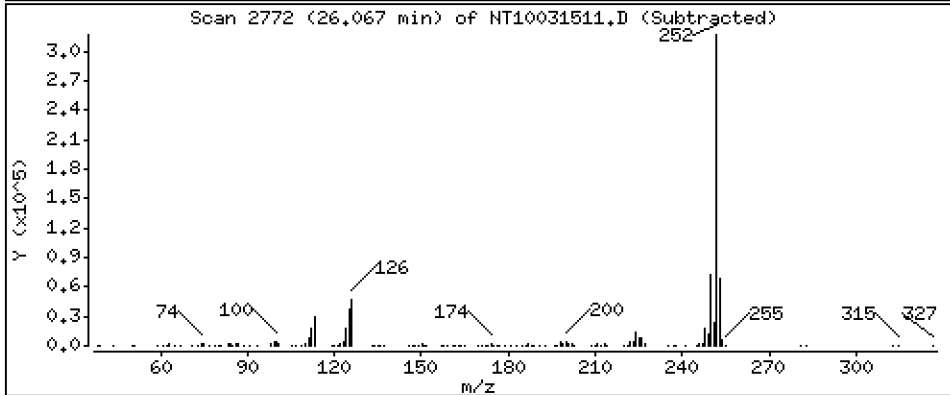
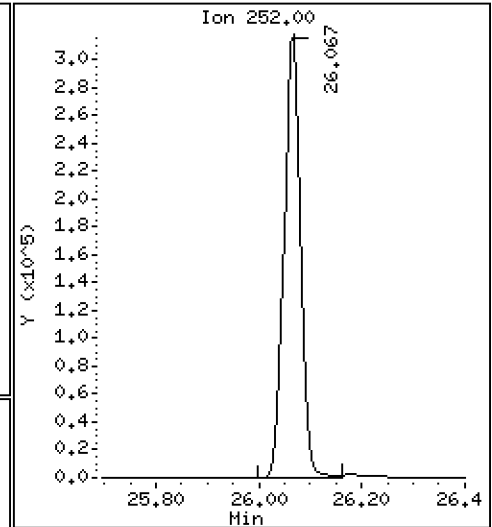
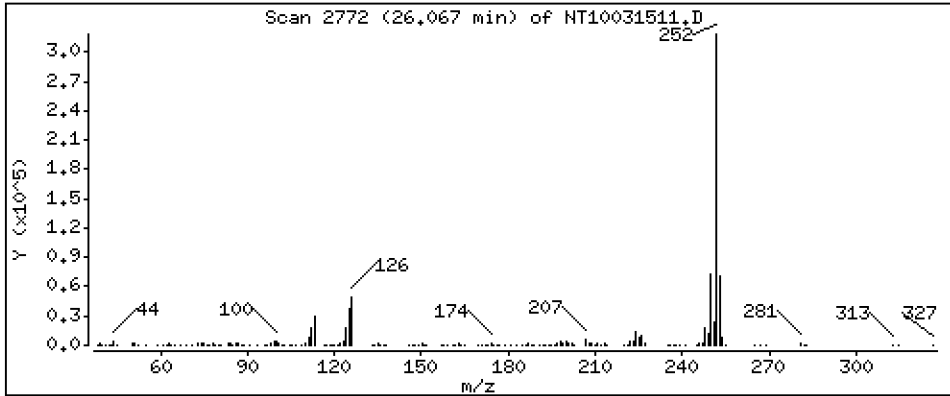
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,873 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

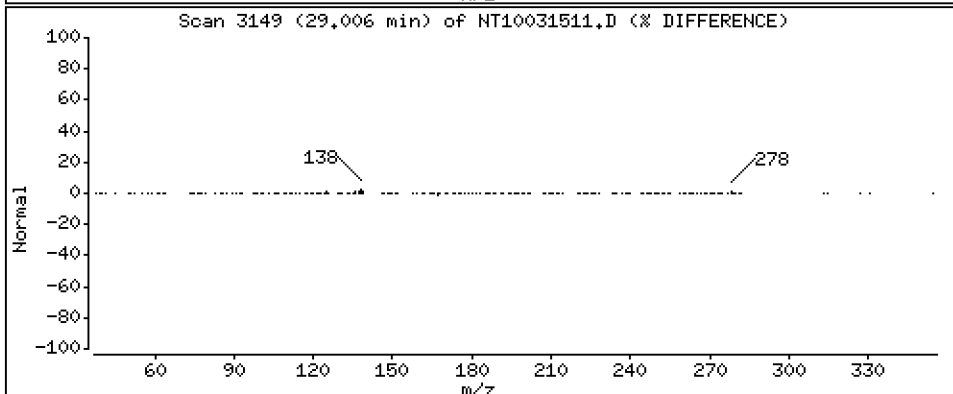
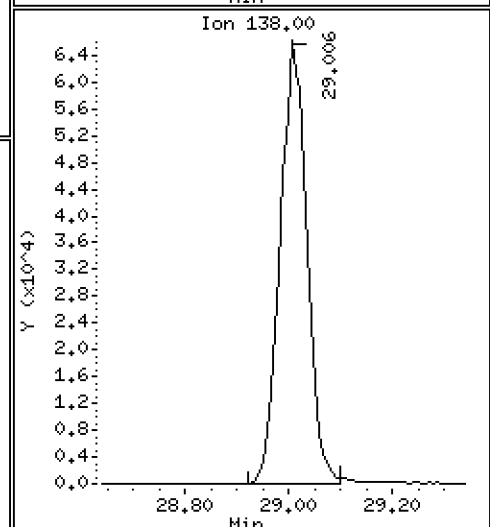
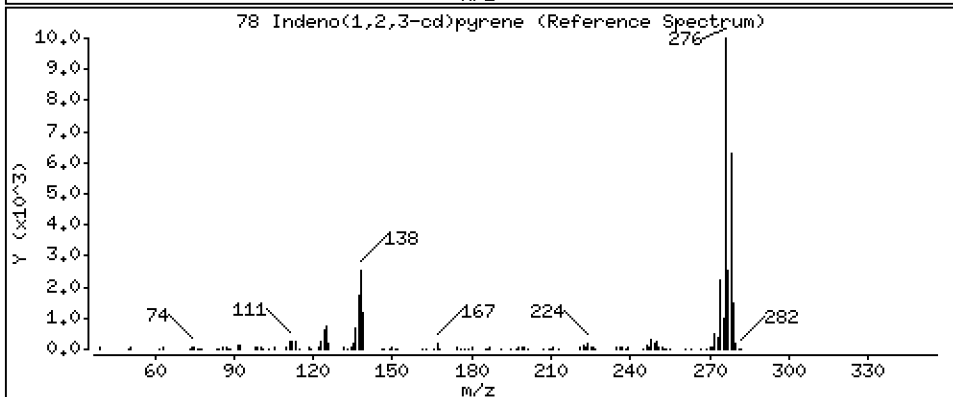
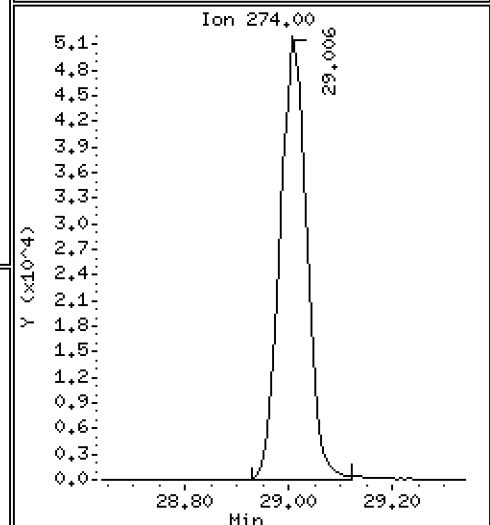
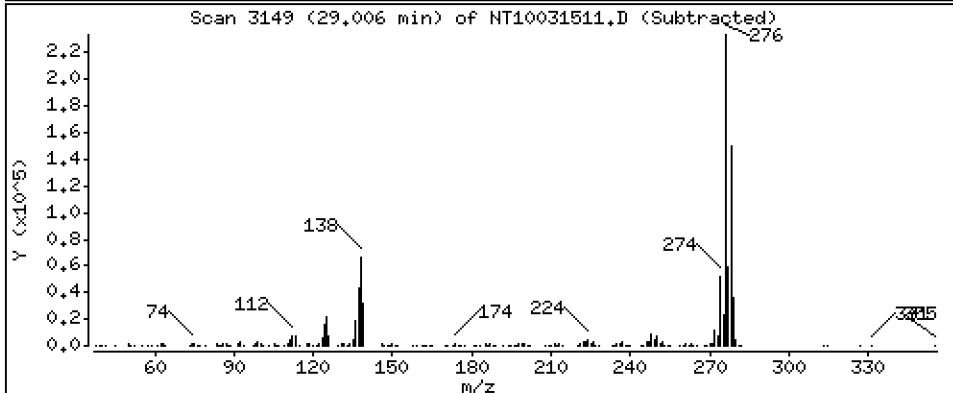
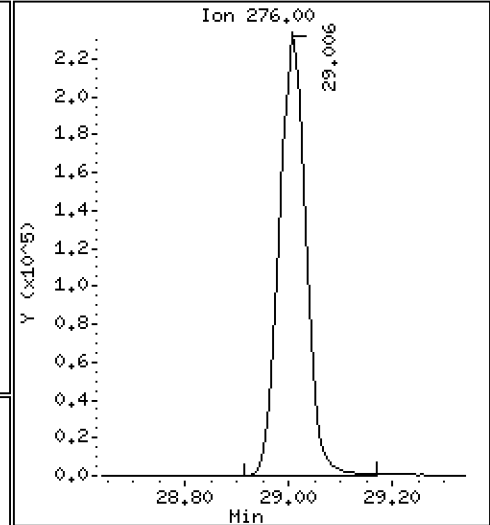
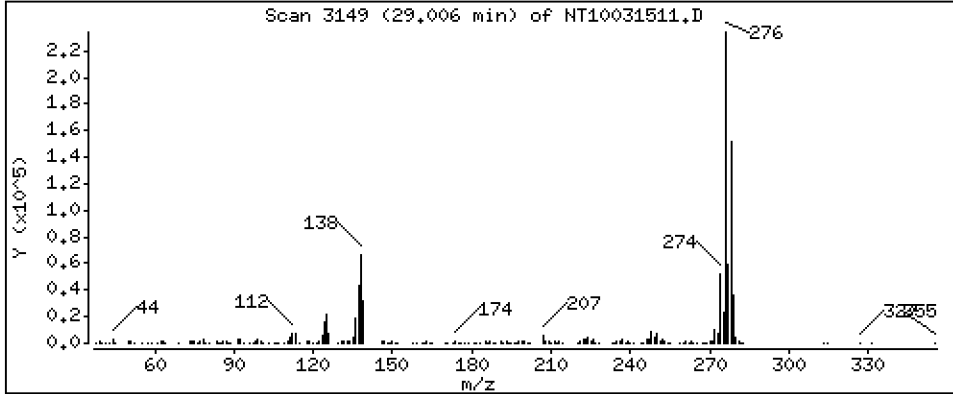
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 4,577 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

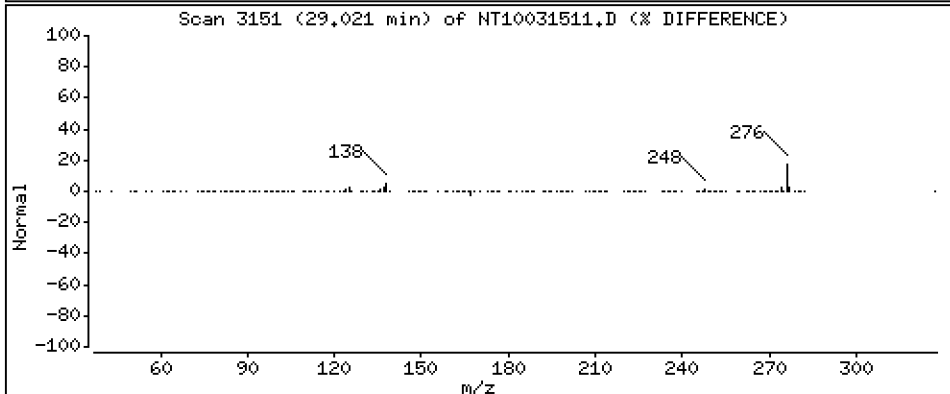
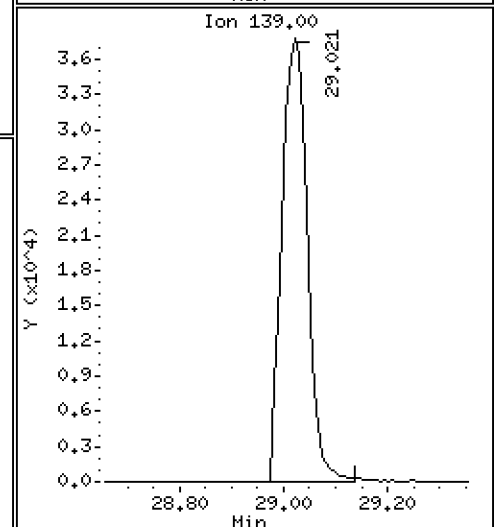
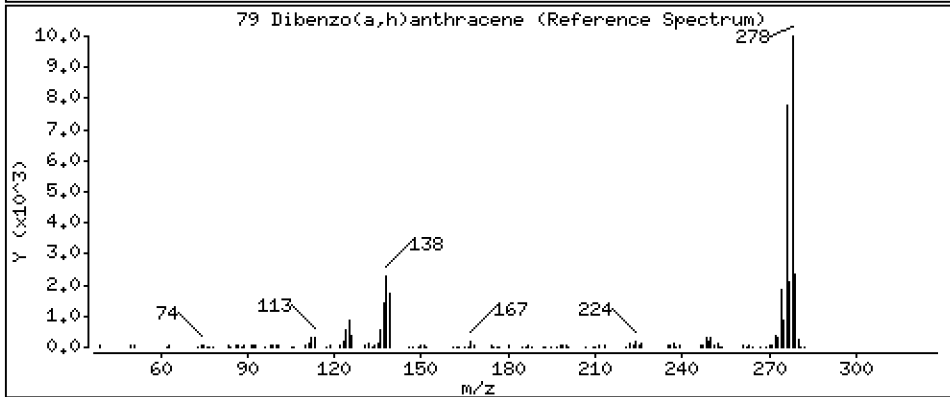
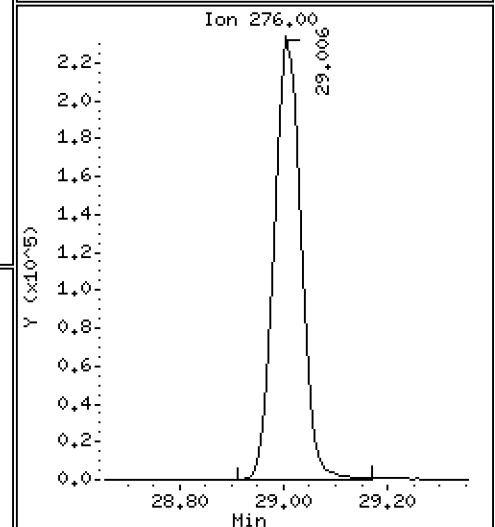
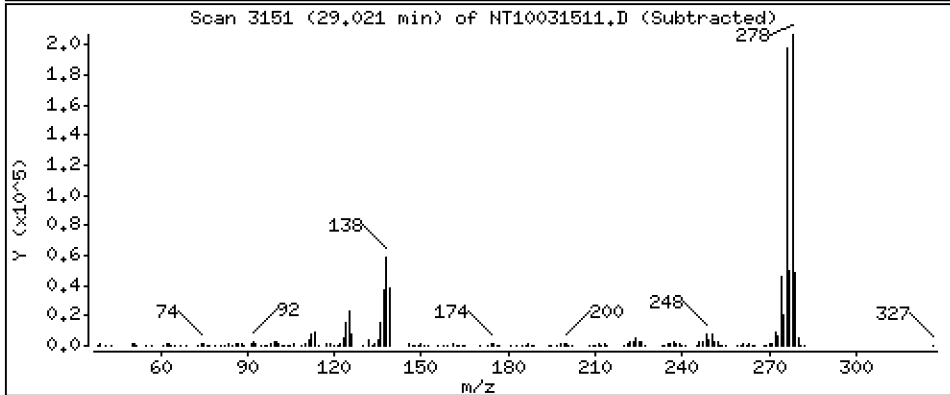
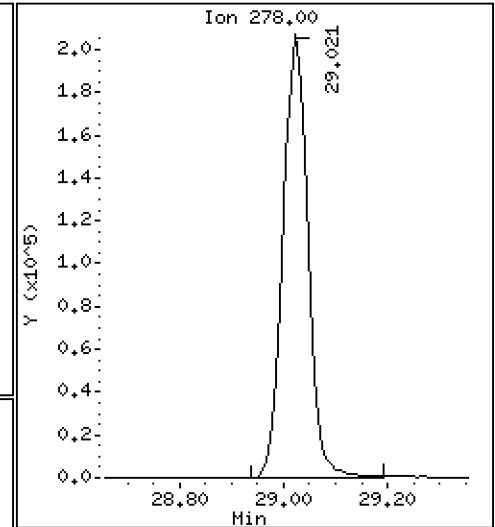
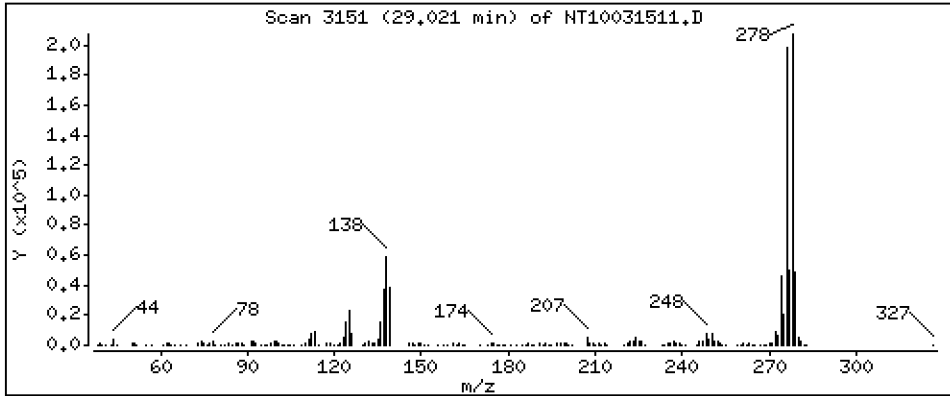
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,547 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

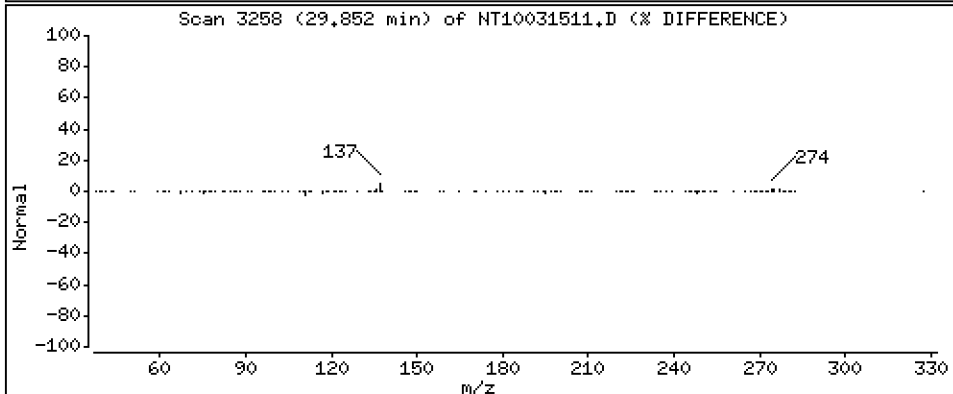
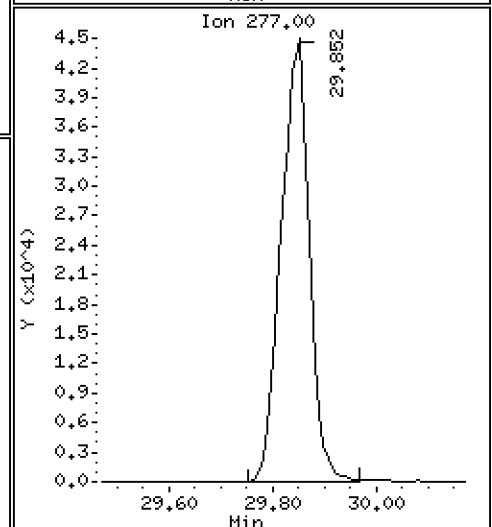
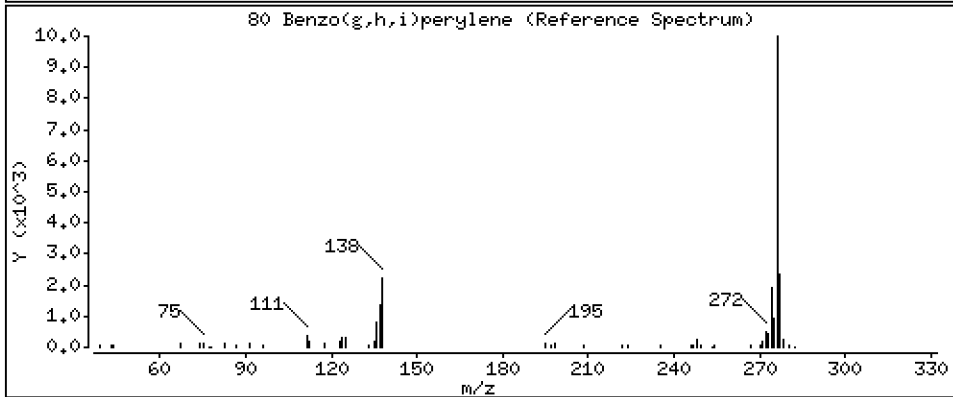
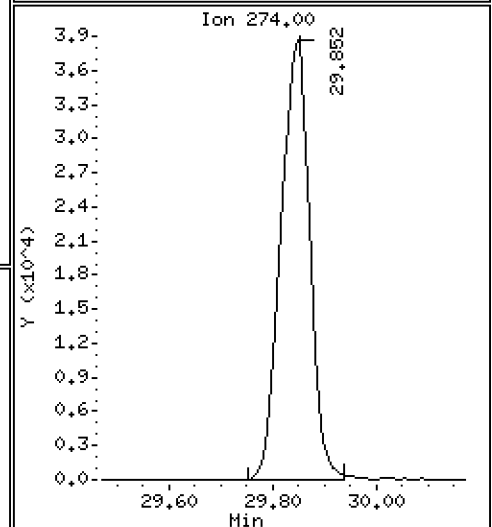
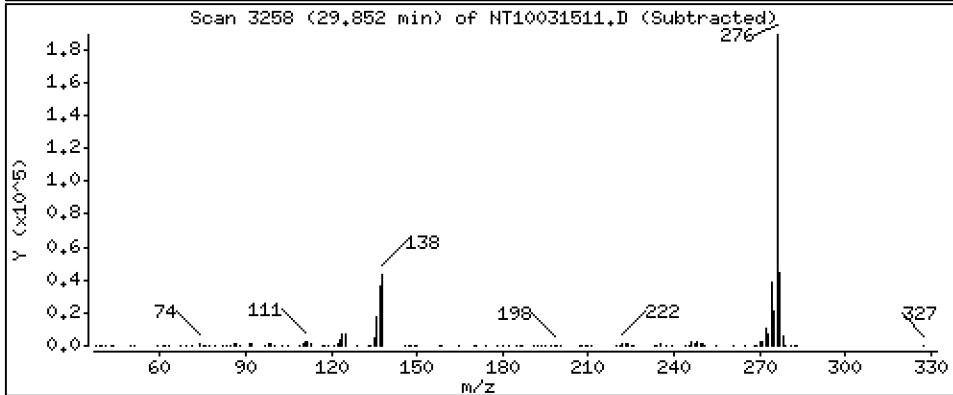
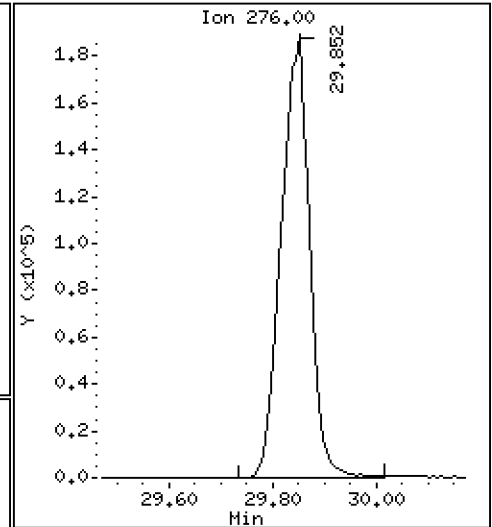
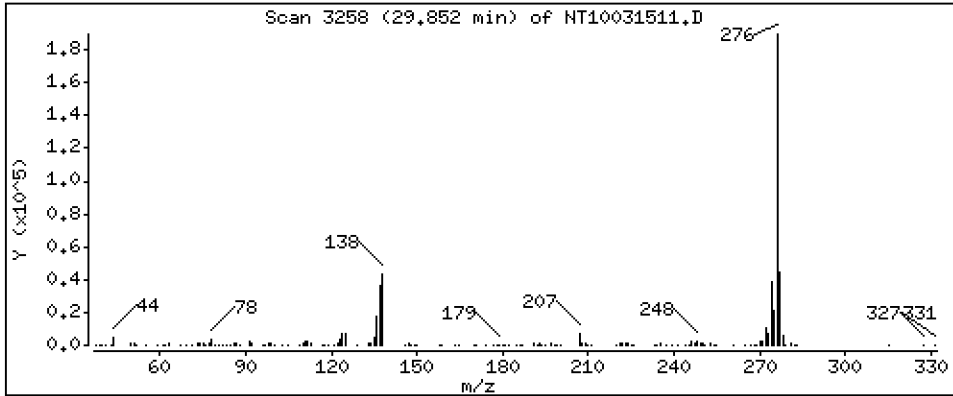
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,590 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

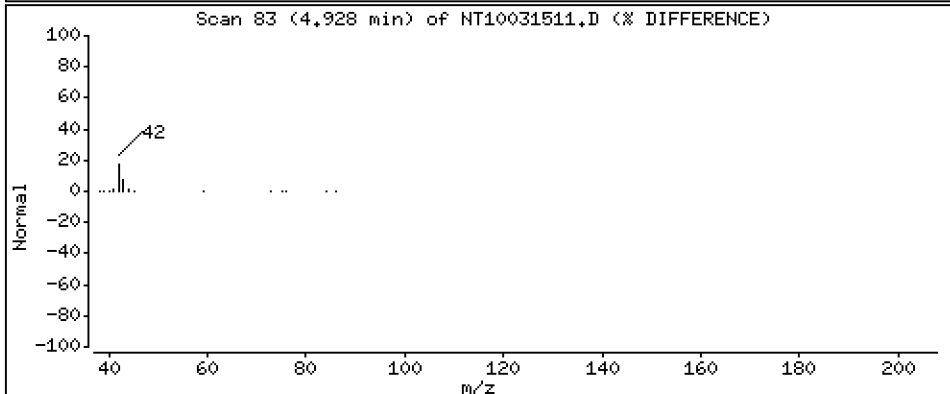
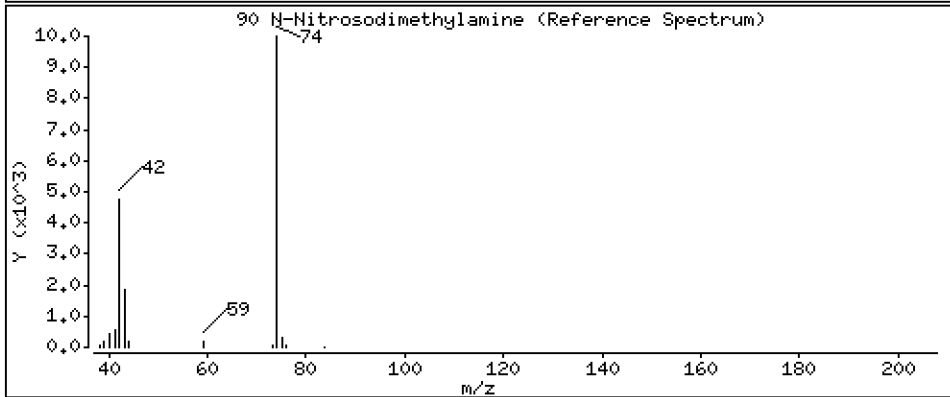
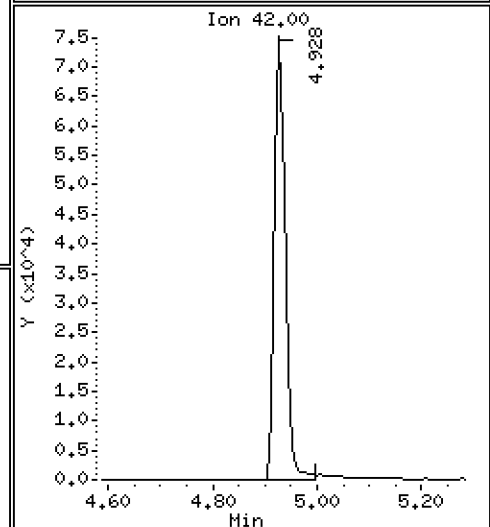
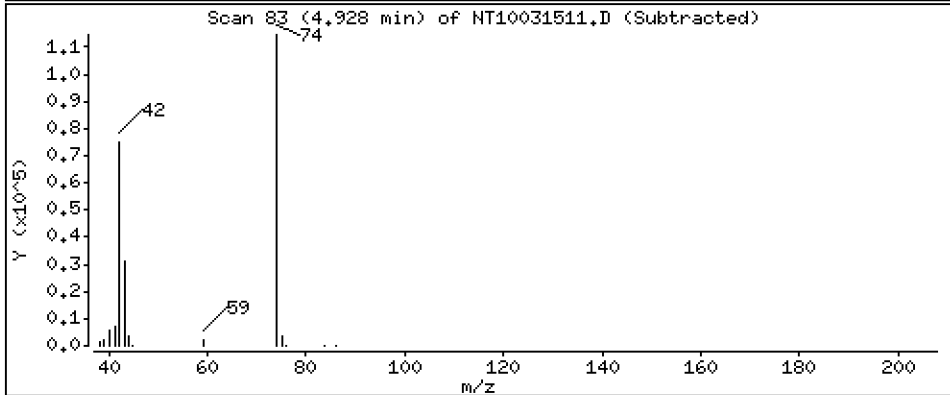
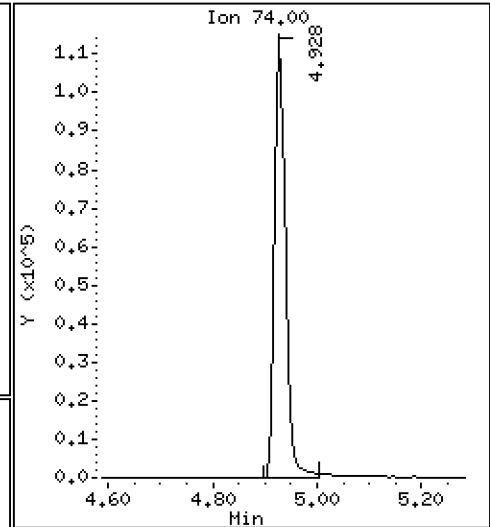
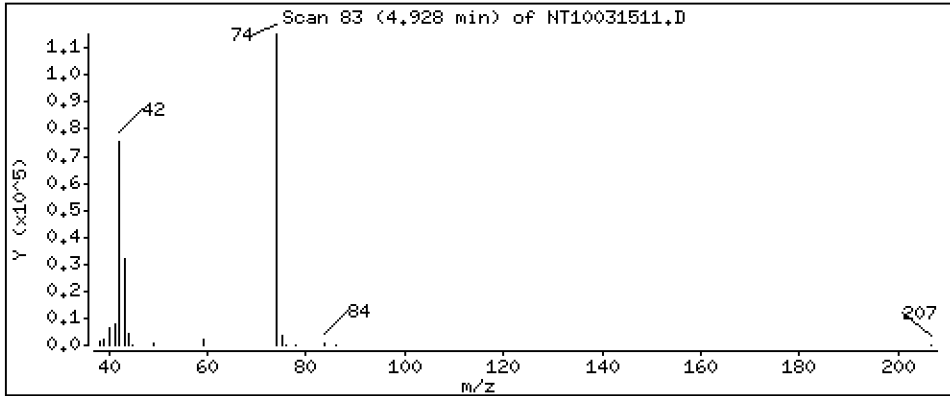
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 5.194 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

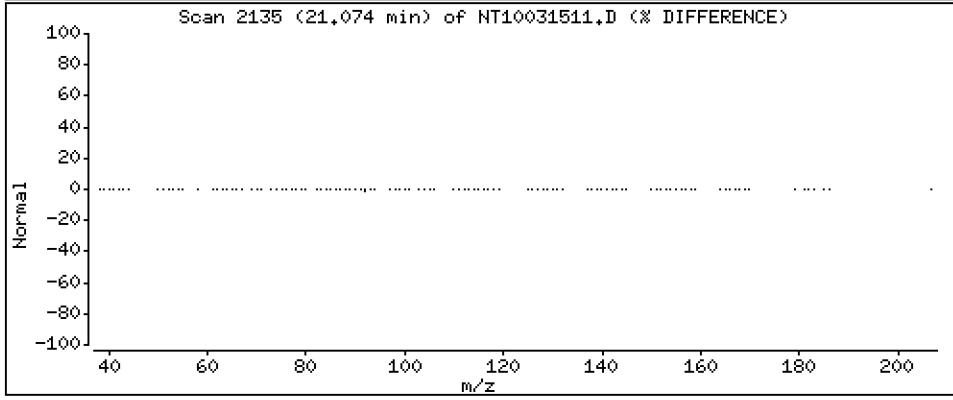
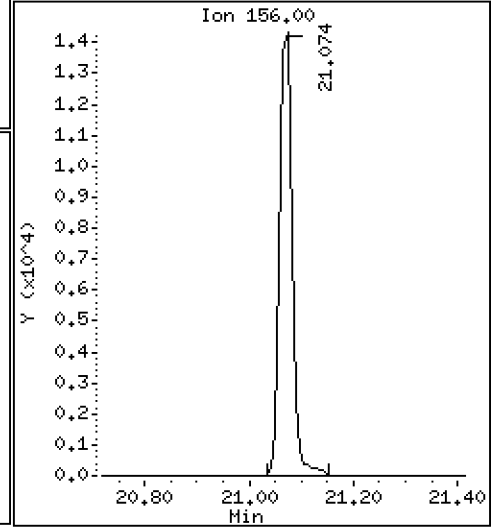
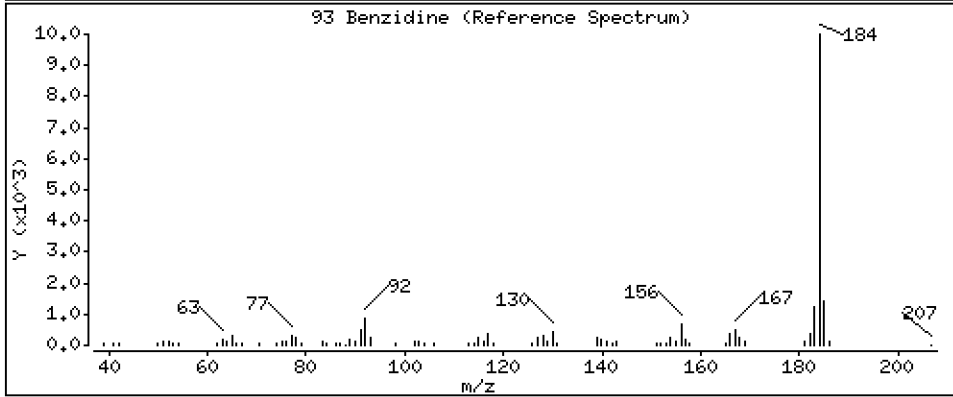
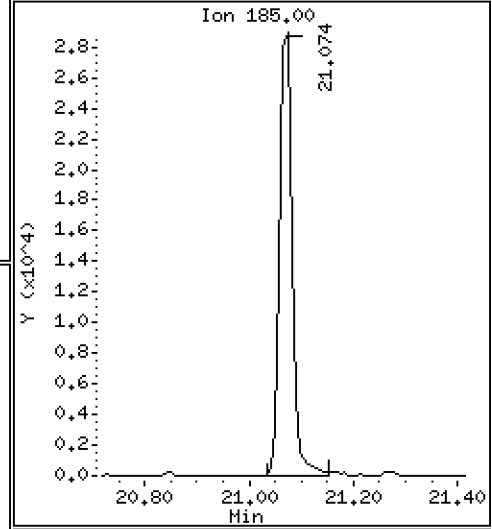
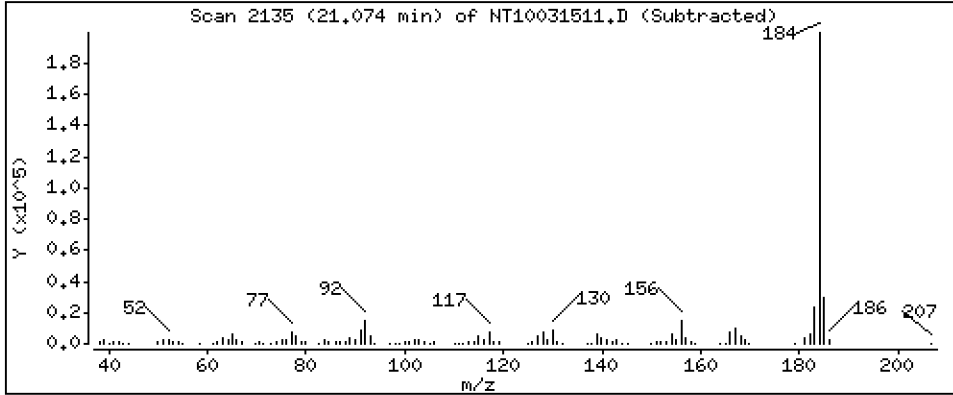
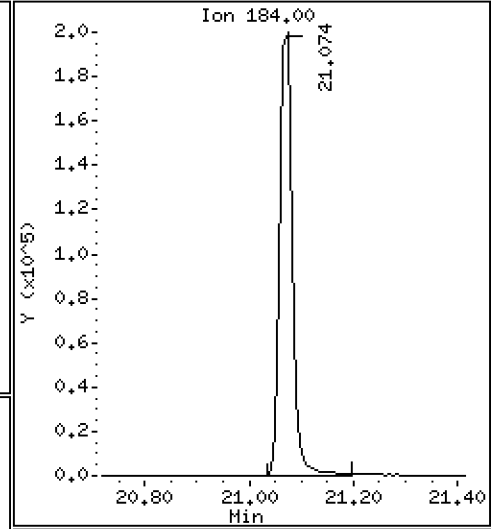
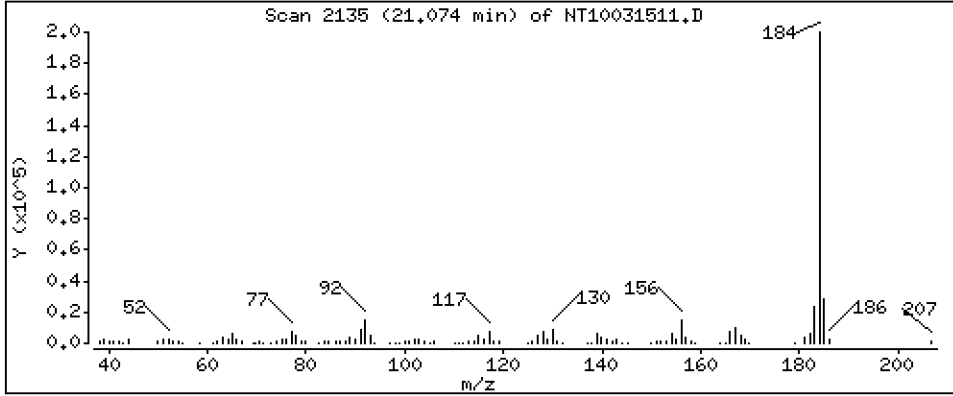
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 4,380 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

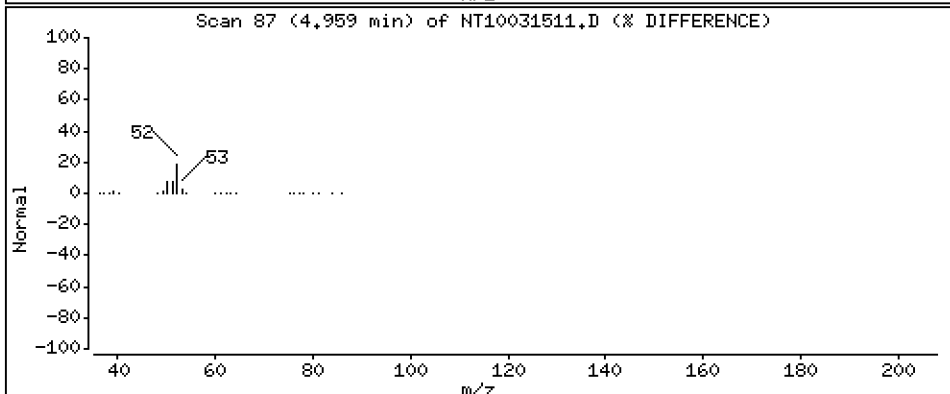
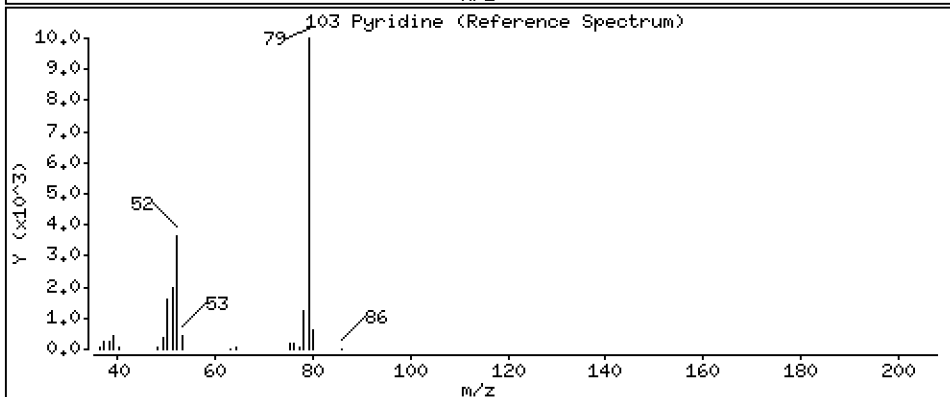
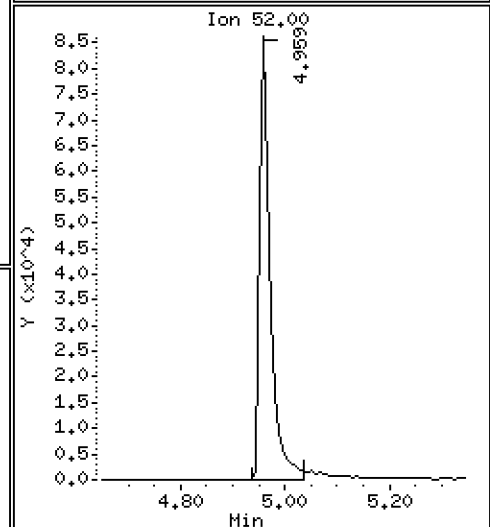
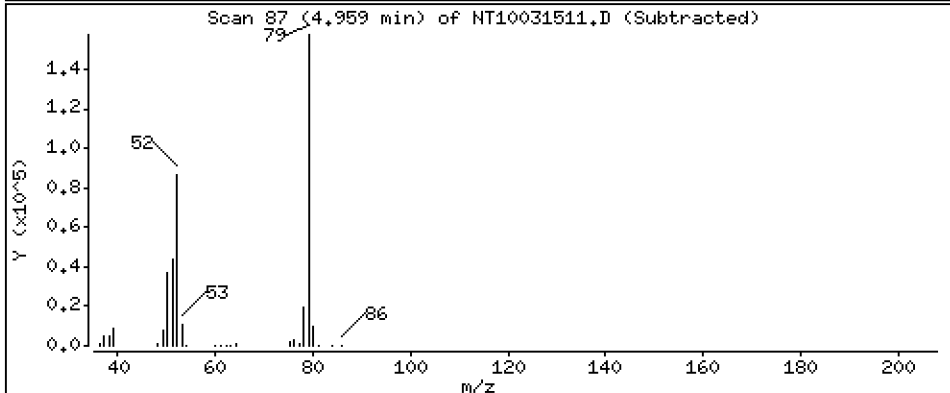
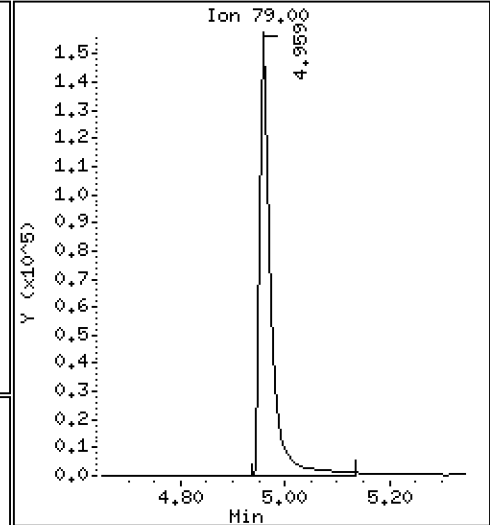
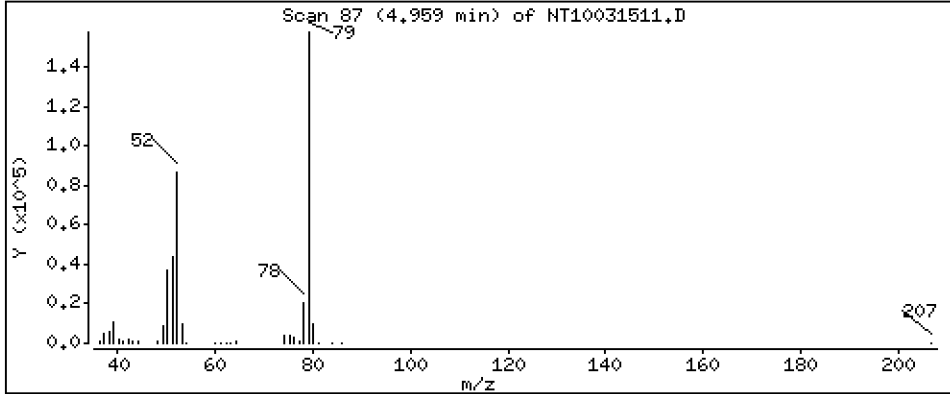
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

103 Pyridine

Concentration: 5.337 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

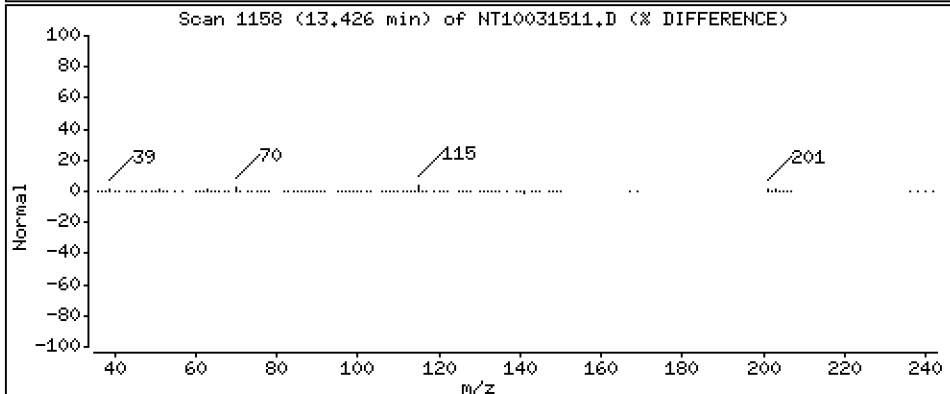
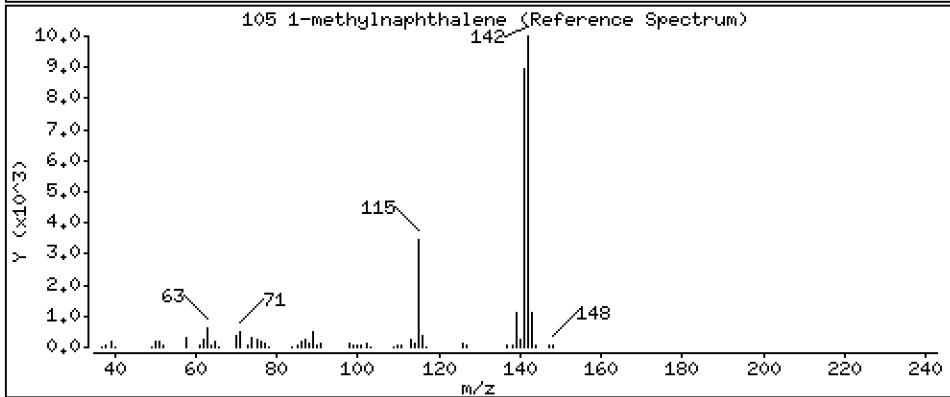
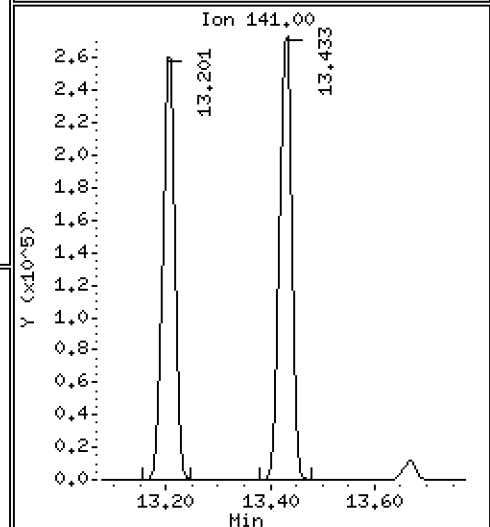
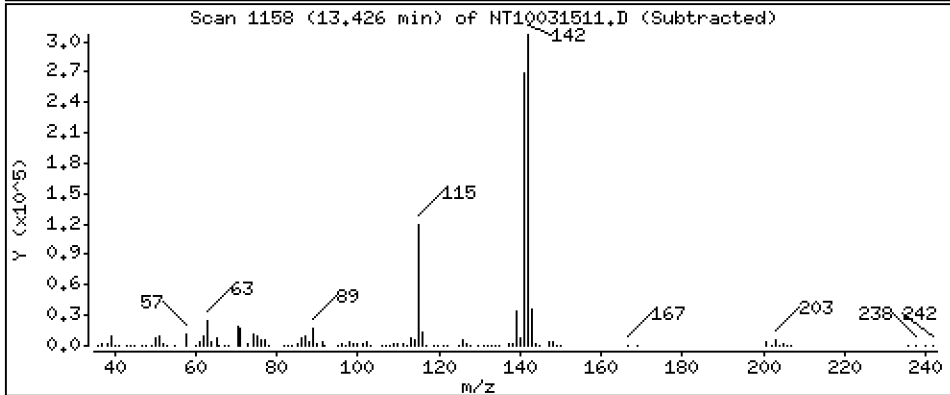
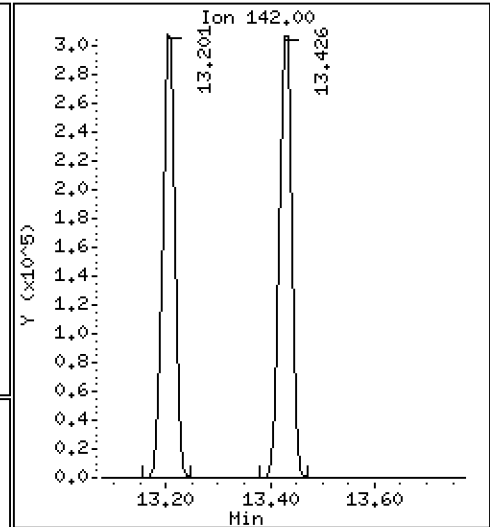
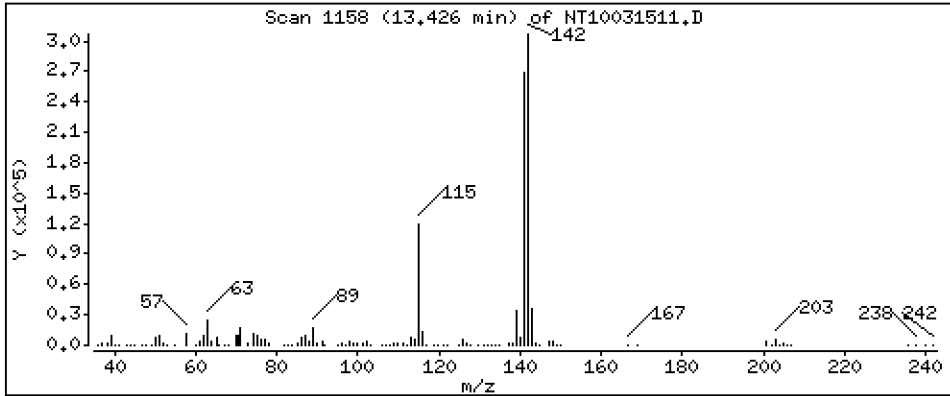
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,875 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

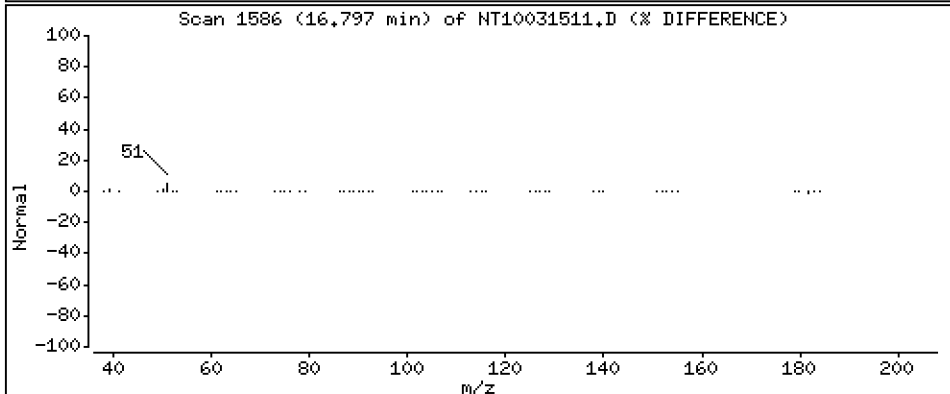
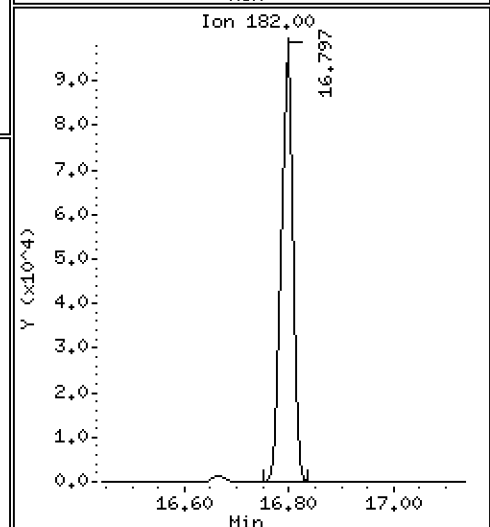
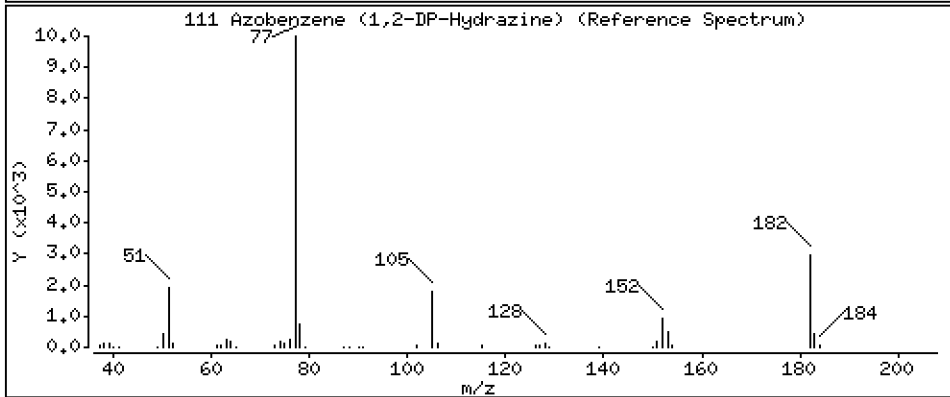
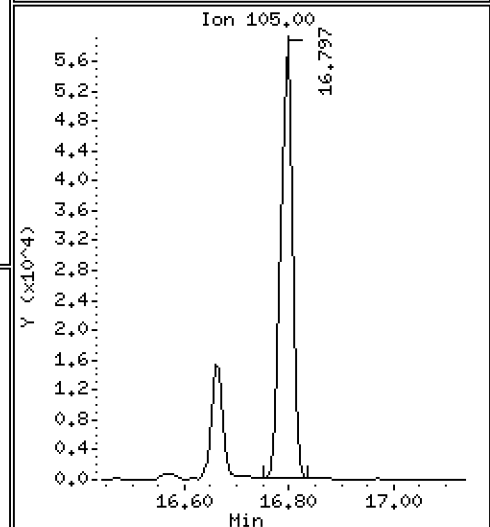
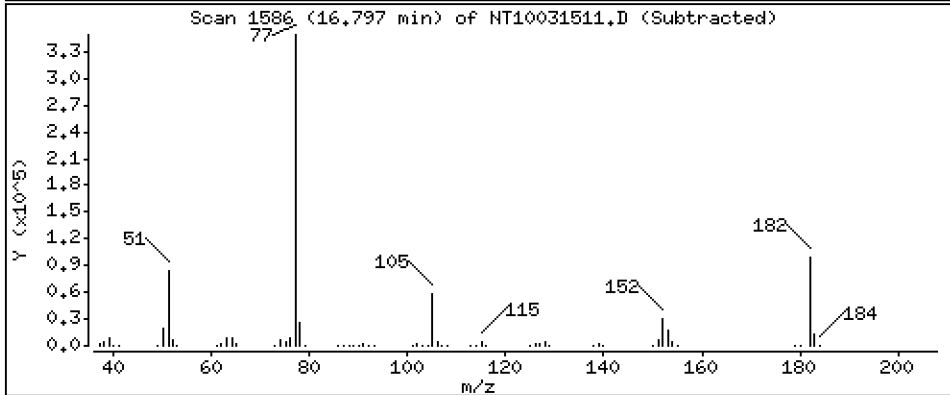
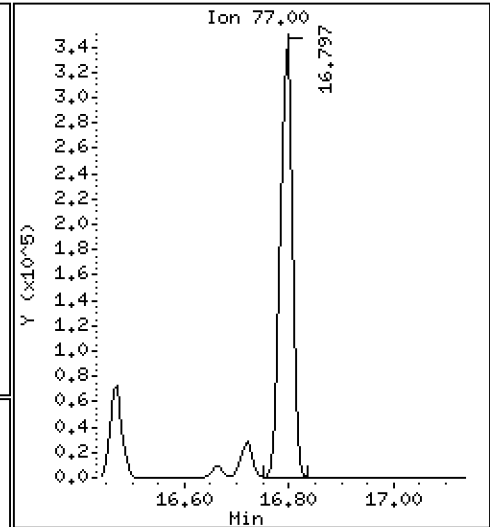
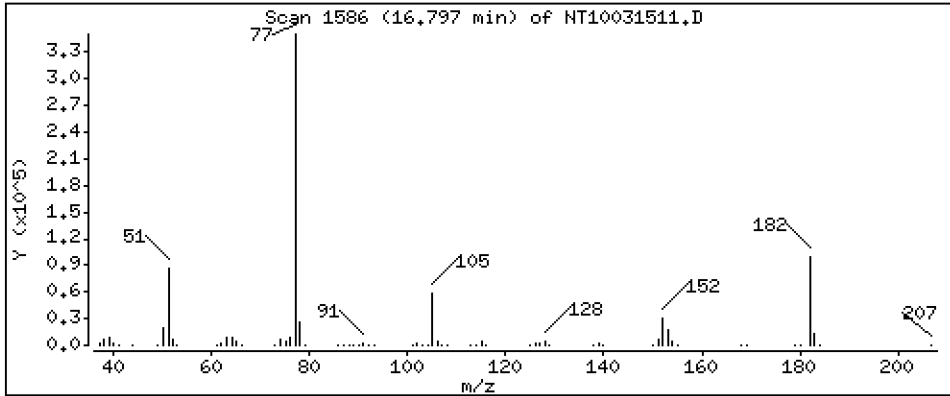
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4.937 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

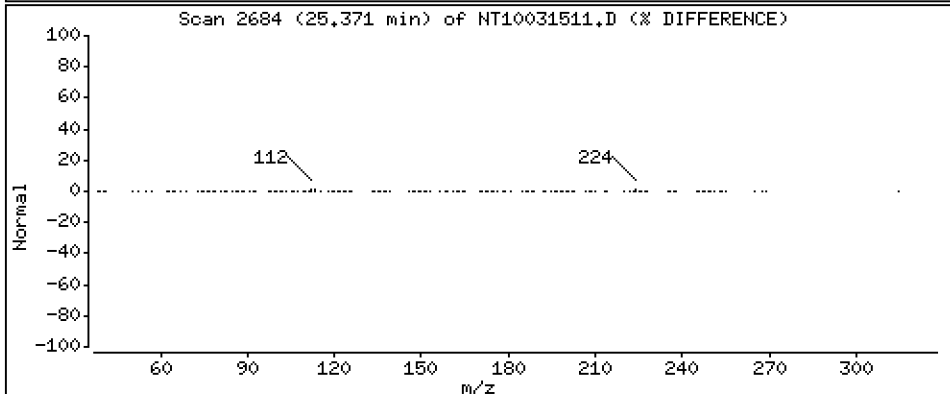
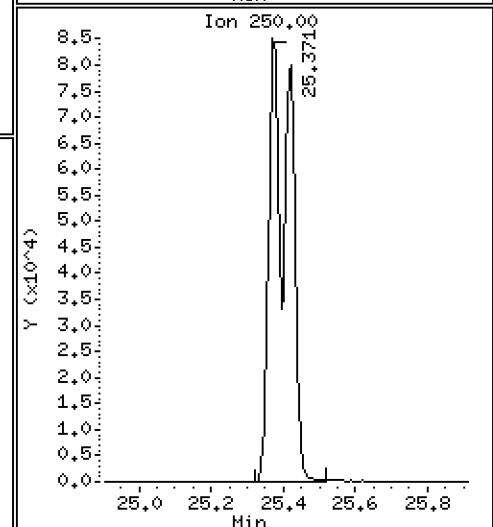
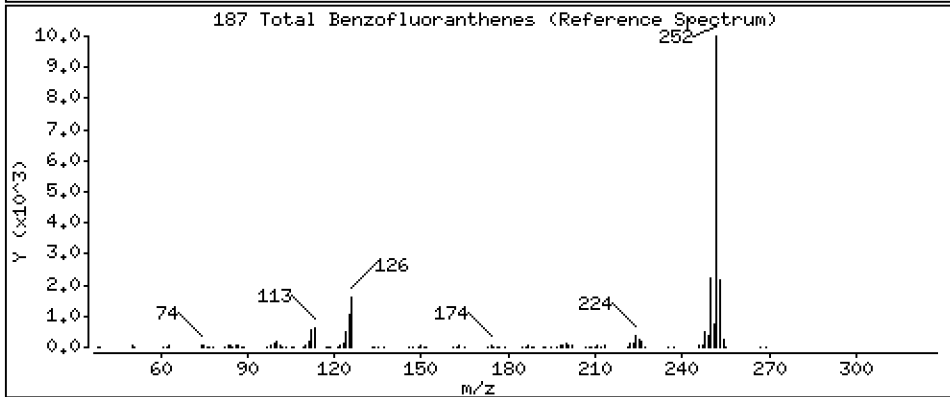
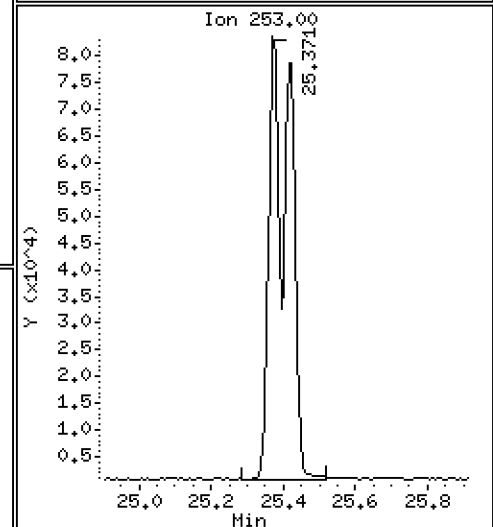
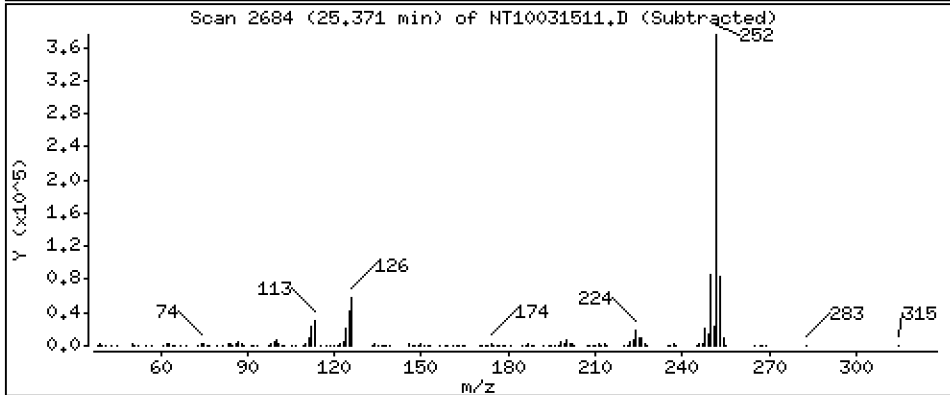
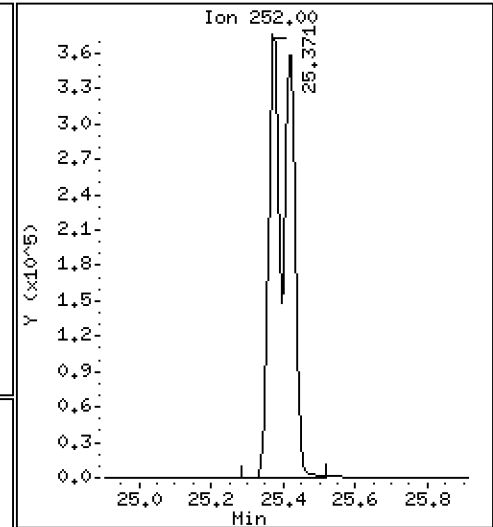
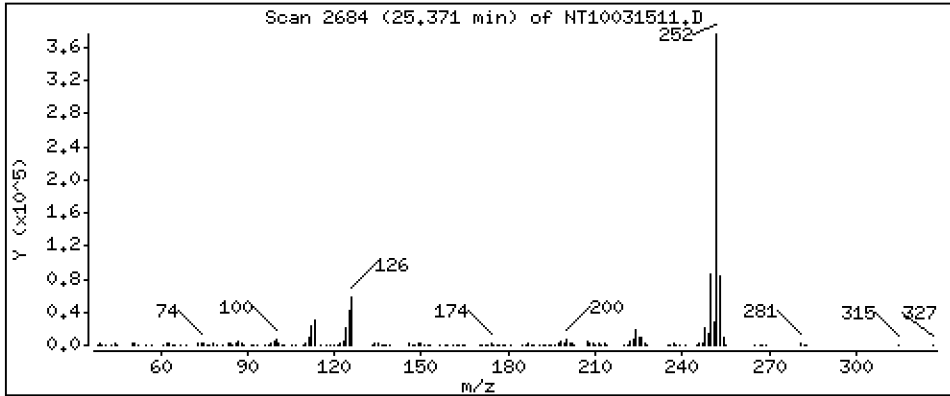
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,483 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

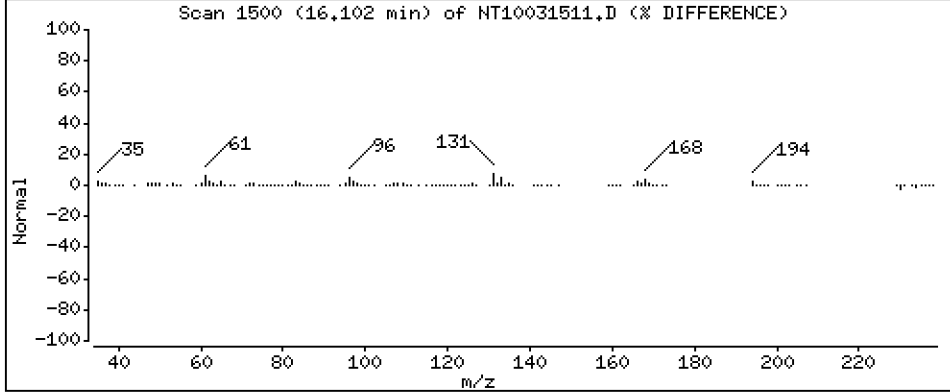
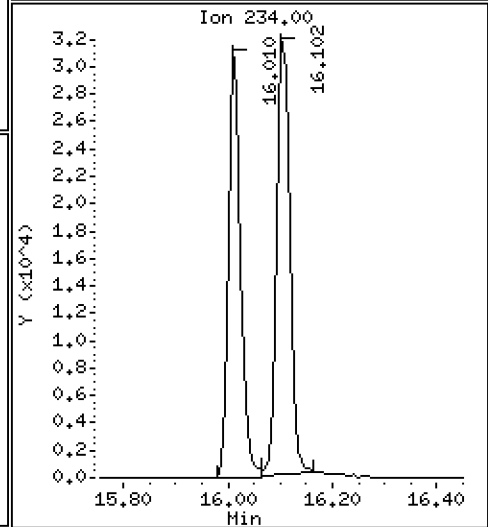
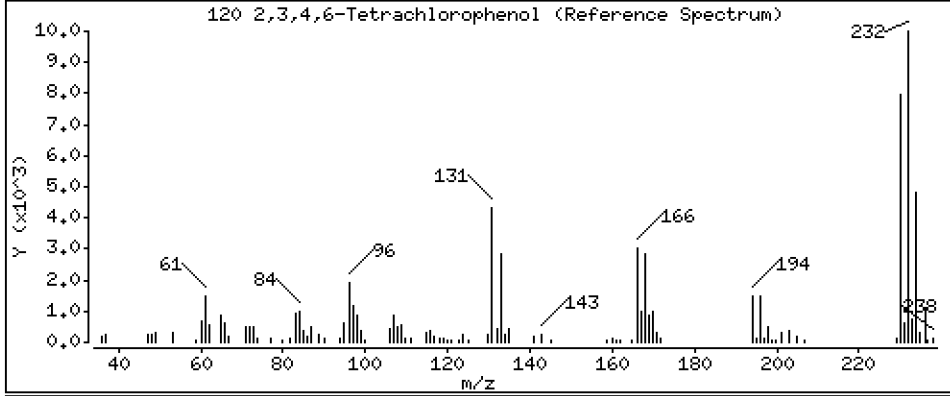
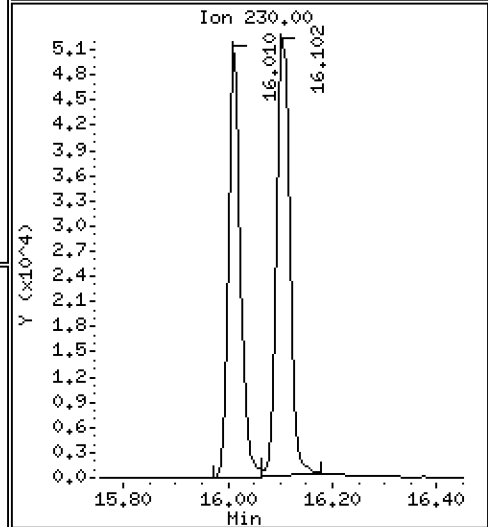
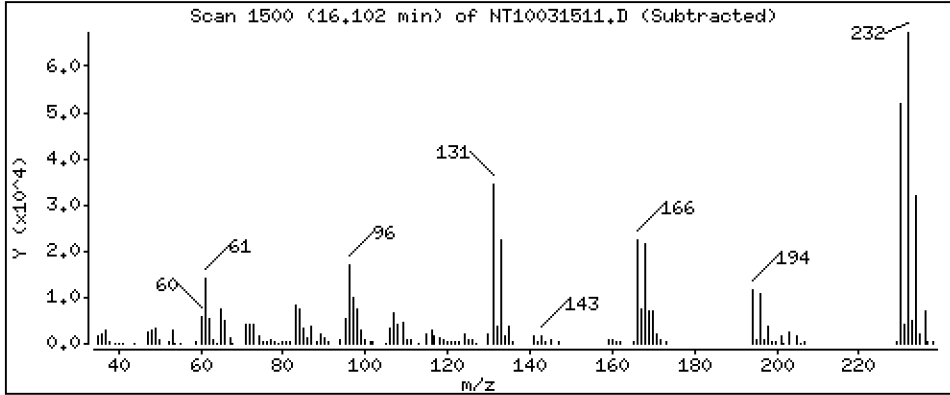
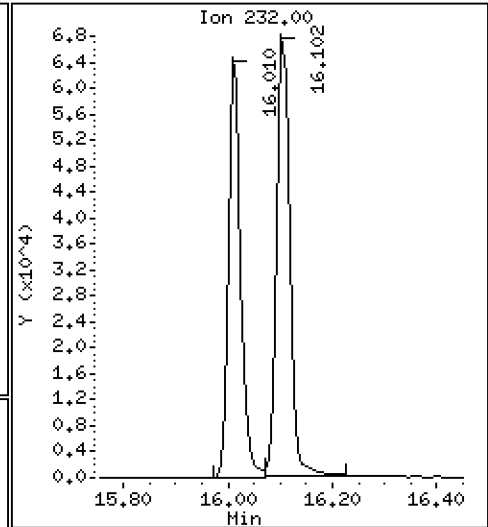
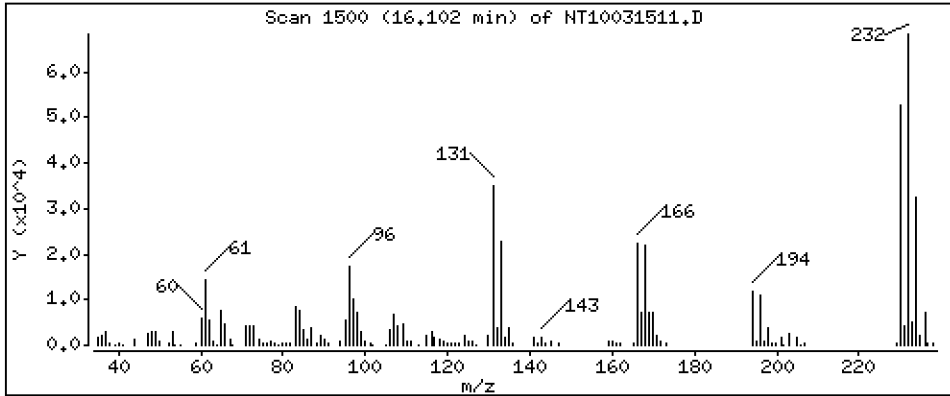
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,980 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031511.D  
 Lab Smp Id: SLC0228-SCV1  
 Inj Date : 16-MAR-2023 02:16  
 Operator : VTS Inst ID: nt10.i  
 Smp Info : SLC0228-SCV1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD  
 Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE               | CONCENTRATIONS |         |
|---------------------------------|-------|-----|--------|--------|---------|------------------------|----------------|---------|
|                                 |       |     |        |        |         |                        | ON-COLUMN      | FINAL   |
|                                 | MASS  |     |        |        |         |                        | (ug/mL)        | (ug/mL) |
| =====                           | ====  |     | ====   | =====  | =====   | =====                  | =====          | =====   |
| \$ 1 2-Fluorophenol             | 112   |     |        |        |         | Compound Not Detected. |                |         |
| \$ 2 Phenol-d5                  | 99    |     |        |        |         | Compound Not Detected. |                |         |
| 3 Phenol                        | 94    |     | 8.659  | 8.652  | (0.931) | 281600                 | 4.41237        | 4.412   |
| \$ 5 2-Chlorophenol-d4          | 132   |     |        |        |         | Compound Not Detected. |                |         |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.837  | 8.837  | (0.950) | 248892                 | 5.25818        | 5.258   |
| 6 2-Chlorophenol                | 128   |     | 8.960  | 8.961  | (0.963) | 233608                 | 4.27685        | 4.277   |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.239  | 9.231  | (0.993) | 275540                 | 4.77157        | 4.772   |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.301  | 9.293  | (1.000) | 154809                 | 4.00000        |         |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.332  | 9.325  | (1.003) | 274051                 | 4.91272        | 4.913   |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     |        |        |         | Compound Not Detected. |                |         |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.689  | 9.682  | (1.042) | 268028                 | 4.88215        | 4.882   |
| 11 Benzyl alcohol               | 108   |     | 9.557  | 9.557  | (1.028) | 147597                 | 4.92722        | 4.927   |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.860  | 9.860  | (1.060) | 100179                 | 6.21363        | 6.214   |
| 13 2-Methylphenol               | 108   |     | 9.775  | 9.767  | (1.051) | 196115                 | 4.21542        | 4.215   |
| 17 Hexachloroethane             | 117   |     | 10.279 | 10.271 | (1.105) | 114513                 | 5.00332        | 5.003   |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 10.116 | 10.108 | (1.088) | 190250                 | 5.17896        | 5.179   |
| 15 4-Methylphenol               | 108   |     | 10.046 | 10.031 | (1.080) | 213951                 | 4.36462        | 4.365   |
| \$ 18 Nitrobenzene-d5           | 82    |     |        |        |         | Compound Not Detected. |                |         |
| 19 Nitrobenzene                 | 77    |     | 10.426 | 10.419 | (0.885) | 274714                 | 4.85798        | 4.858   |
| 20 Isophorone                   | 82    |     | 10.861 | 10.861 | (0.922) | 556741                 | 7.69604        | 7.696   |
| 21 2-Nitrophenol                | 139   |     | 11.047 | 11.048 | (0.938) | 110302                 | 3.99452        | 3.995   |
| 22 2,4-Dimethylphenol           | 107   |     | 11.081 | 11.082 | (0.941) | 188638                 | 3.63181        | 3.632   |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.285 | 11.285 | (0.958) | 273219                 | 5.65409        | 5.654   |
| 24 Benzoic acid                 | 105   |     | 11.217 | 11.166 | (0.952) | 173961                 | 5.95241        | 5.952   |
| 25 2,4-Dichlorophenol           | 162   |     | 11.489 | 11.489 | (0.975) | 195480                 | 4.70301        | 4.703   |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.685 | 11.685 | (0.992) | 222176                 | 4.55366        | 4.554   |
| * 27 Naphthalene-d8             | 136   |     | 11.777 | 11.770 | (1.000) | 570882                 | 4.00000        |         |
| 28 Naphthalene                  | 128   |     | 11.816 | 11.816 | (1.003) | 713318                 | 4.71662        | 4.717   |
| 29 4-Chloroaniline              | 127   |     | 11.940 | 11.940 | (1.014) | 223402                 | 3.78650        | 3.787   |
| 30 Hexachlorobutadiene          | 225   |     | 12.171 | 12.172 | (1.033) | 138198                 | 4.83404        | 4.834   |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.876 | 12.876 | (1.093) | 208794                 | 4.64027        | 4.640   |
| 32 2-Methylnaphthalene          | 142   |     | 13.201 | 13.201 | (1.121) | 501627                 | 4.59617        | 4.596   |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.665 | 13.665 | (0.888) | 132827                 | 4.72902        | 4.729   |

| Compounds                         | QUANT SIG | CONCENTRATIONS         |        |         |        |          |                   |
|-----------------------------------|-----------|------------------------|--------|---------|--------|----------|-------------------|
|                                   |           | MASS                   | RT     | EXP RT  | REL RT | RESPONSE | ON-COLUMN (ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 13.820                 | 13.820 | (0.898) | 137849 | 4.59559  | 4.596             |
| 35 2,4,5-Trichlorophenol          | 196       | 13.889                 | 13.890 | (0.903) | 146935 | 4.40855  | 4.409             |
| § 36 2-Fluorobiphenyl             | 172       | Compound Not Detected. |        |         |        |          |                   |
| 37 2-Chloronaphthalene            | 162       | 14.199                 | 14.191 | (0.923) | 466196 | 4.79589  | 4.796             |
| 38 2-Nitroaniline                 | 65        | 14.454                 | 14.447 | (0.940) | 134108 | 4.91137  | 4.911             |
| 39 Dimethylphthalate              | 163       | 14.880                 | 14.873 | (0.967) | 486790 | 4.93747  | 4.937             |
| 40 Acenaphthylene                 | 152       | 15.074                 | 15.066 | (0.980) | 727839 | 4.80509  | 4.805             |
| 41 2,6-Dinitrotoluene             | 165       | 15.020                 | 15.012 | (0.976) | 112840 | 5.29815  | 5.298             |
| * 42 Acenaphthene-d10             | 164       | 15.383                 | 15.383 | (1.000) | 303490 | 4.00000  |                   |
| 43 3-Nitroaniline                 | 138       | 15.306                 | 15.298 | (0.995) | 120530 | 5.01393  | 5.014             |
| 44 Acenaphthene                   | 153       | 15.453                 | 15.445 | (1.005) | 446914 | 4.77589  | 4.776             |
| 45 2,4-Dinitrophenol              | 184       | 15.515                 | 15.515 | (1.009) | 27409  | 2.12395  | 2.124             |
| 46 Dibenzofuran                   | 168       | 15.777                 | 15.770 | (1.026) | 641379 | 4.64790  | 4.648             |
| 47 4-Nitrophenol                  | 109       | 15.600                 | 15.592 | (1.014) | 59816  | 3.96568  | 3.966             |
| 48 2,4-Dinitrotoluene             | 165       | 15.824                 | 15.817 | (1.029) | 144262 | 4.51019  | 4.510             |
| 50 Diethylphthalate               | 149       | 16.326                 | 16.319 | (1.061) | 503887 | 5.20905  | 5.209             |
| 49 Fluorene                       | 166       | 16.489                 | 16.481 | (1.072) | 511113 | 4.70796  | 4.708             |
| 51 4-Chlorophenyl-phenylether     | 204       | 16.473                 | 16.466 | (1.071) | 257762 | 4.99294  | 4.993             |
| 52 4-Nitroaniline                 | 138       | 16.566                 | 16.566 | (1.077) | 106701 | 4.92532  | 4.925             |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 16.666                 | 16.658 | (0.905) | 56867  | 3.51509  | 3.515             |
| 54 N-Nitrosodiphenylamine         | 169       | 16.720                 | 16.712 | (0.908) | 342454 | 4.80180  | 4.802             |
| § 55 2,4,6-Tribromophenol         | 330       | Compound Not Detected. |        |         |        |          |                   |
| 56 4-Bromophenyl-phenylether      | 248       | 17.475                 | 17.476 | (0.949) | 150956 | 5.05964  | 5.060             |
| 57 Hexachlorobenzene              | 284       | 17.800                 | 17.793 | (0.966) | 143751 | 4.59553  | 4.596             |
| 58 Pentachlorophenol              | 266       | 18.149                 | 18.149 | (0.985) | 75635  | 4.05676  | 4.057             |
| * 59 Phenanthrene-d10             | 188       | 18.420                 | 18.420 | (1.000) | 533431 | 4.00000  |                   |
| 60 Phenanthrene                   | 178       | 18.466                 | 18.466 | (1.003) | 669357 | 4.60181  | 4.602             |
| 61 Anthracene                     | 178       | 18.559                 | 18.559 | (1.008) | 581438 | 4.16715  | 4.167             |
| 62 Carbazole                      | 167       | 18.884                 | 18.884 | (1.025) | 591382 | 4.72989  | 4.730             |
| 63 Di-n-butylphthalate            | 149       | 19.665                 | 19.666 | (1.068) | 830680 | 4.96738  | 4.967             |
| 64 Fluoranthene                   | 202       | 20.841                 | 20.841 | (0.888) | 782432 | 4.47248  | 4.472             |
| 65 Pyrene                         | 202       | 21.267                 | 21.267 | (0.907) | 778668 | 4.33892  | 4.339             |
| § 66 Terphenyl-d14                | 244       | Compound Not Detected. |        |         |        |          |                   |
| 67 Butylbenzylphthalate           | 149       | 22.459                 | 22.460 | (0.957) | 314007 | 4.83397  | 4.834             |
| 68 Benzo(a)anthracene             | 228       | 23.427                 | 23.419 | (0.999) | 714166 | 4.64722  | 4.647             |
| * 69 Chrysene-d12                 | 240       | 23.458                 | 23.450 | (1.000) | 435381 | 4.00000  |                   |
| 70 3,3'-Dichlorobenzidine         | 252       | 23.373                 | 23.373 | (0.996) | 483256 | 9.81738  | 9.817             |
| 71 Chrysene                       | 228       | 23.497                 | 23.489 | (1.002) | 677151 | 4.51017  | 4.510             |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 23.481                 | 23.474 | (0.959) | 453669 | 4.67998  | 4.680             |
| * 134 Di-n-octylphthalate-d4      | 153       | 24.487                 | 24.480 | (1.000) | 660827 | 4.00000  |                   |
| 73 Di-n-octylphthalate            | 149       | 24.495                 | 24.488 | (1.000) | 855562 | 4.94734  | 4.947             |
| 74 Benzo(b)fluoranthene           | 252       | 25.370                 | 25.362 | (0.969) | 737887 | 4.60200  | 4.602 (H)         |
| 75 Benzo(k)fluoranthene           | 252       | 25.416                 | 25.409 | (0.970) | 797521 | 4.89839  | 4.898             |
| 76 Benzo(a)pyrene                 | 252       | 26.067                 | 26.052 | (0.995) | 698616 | 4.87338  | 4.873             |
| * 77 Perylene-d12                 | 264       | 26.191                 | 26.183 | (1.000) | 494648 | 4.00000  |                   |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 29.005                 | 28.990 | (1.107) | 834672 | 4.57655  | 4.577             |
| 79 Dibenzo(a,h)anthracene         | 278       | 29.021                 | 29.005 | (1.108) | 688433 | 4.54663  | 4.547             |
| 80 Benzo(g,h,i)perylene           | 276       | 29.852                 | 29.821 | (1.140) | 724463 | 4.59000  | 4.590             |
| 90 N-Nitrosodimethylamine         | 74        | 4.928                  | 4.936  | (0.530) | 155126 | 5.19378  | 5.194             |
| 91 Aniline                        | 93        | Compound Not Detected. |        |         |        |          |                   |
| 93 Benzidine                      | 184       | 21.073                 | 21.066 | (0.898) | 314737 | 4.37985  | 4.380             |
| 103 Pyridine                      | 79        | 4.959                  | 4.997  | (0.533) | 244801 | 5.33678  | 5.337             |
| 105 1-methylnaphthalene           | 142       | 13.425                 | 13.425 | (1.140) | 487498 | 4.87520  | 4.875             |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 16.797                 | 16.789 | (1.092) | 533524 | 4.93744  | 4.937             |



| Compounds                     | QUANT SIG |  | CONCENTRATIONS |        |         |          |                      |                  |
|-------------------------------|-----------|--|----------------|--------|---------|----------|----------------------|------------------|
|                               | MASS      |  | RT             | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| =====                         | =====     |  | =====          | =====  | =====   | =====    | =====                | =====            |
| 187 Total Benzofluoranthenes  | 252       |  | 25.370         | 25.409 | (0.969) | 1468165  | 9.48349              | 9.483            |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 16.102         | 16.103 | (1.047) | 124685   | 3.97959              | 3.980            |

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023  
 Lab File ID: NT10031511.D Calibration Time: 21:50  
 Lab Smp Id: SLC0228-SCV1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 171542   | 85771      | 343084  | 154809 | -9.75  |
| 27 Naphthalene-d8     | 624466   | 312233     | 1248932 | 570882 | -8.58  |
| 42 Acenaphthene-d10   | 337226   | 168613     | 674452  | 303490 | -10.00 |
| 59 Phenanthrene-d10   | 572849   | 286425     | 1145698 | 533431 | -6.88  |
| 69 Chrysene-d12       | 347068   | 173534     | 694136  | 435381 | 25.45  |
| 134 Di-n-octylphthala | 500317   | 250159     | 1000634 | 660827 | 32.08  |
| 77 Perylene-d12       | 421549   | 210775     | 843098  | 494648 | 17.34  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.30     | 8.80     | 9.80  | 9.30   | -0.00 |
| 27 Naphthalene-d8     | 11.78    | 11.28    | 12.28 | 11.78  | 0.01  |
| 42 Acenaphthene-d10   | 15.38    | 14.88    | 15.88 | 15.38  | 0.00  |
| 59 Phenanthrene-d10   | 18.42    | 17.92    | 18.92 | 18.42  | 0.00  |
| 69 Chrysene-d12       | 23.45    | 22.95    | 23.95 | 23.46  | 0.04  |
| 134 Di-n-octylphthala | 24.48    | 23.98    | 24.98 | 24.49  | 0.03  |
| 77 Perylene-d12       | 26.18    | 25.68    | 26.68 | 26.19  | 0.03  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT10031511.D

Lab ID: SLC0228-SCV1  
nt10.i, 20230315.b\ABN.m, 16-MAR-2023 02:16

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

\*\* FIRST SURROGATE NOT FOUND. ICAL Check not performed \*\*

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND     |
|-------|---------|--------|--------------|
| 0.952 | 0.000   | 0.9524 | Benzoic acid |

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031512.D

Date: 16-MAR-2023 02:54

Client ID:

Sample Info: SLC0228-ICB1

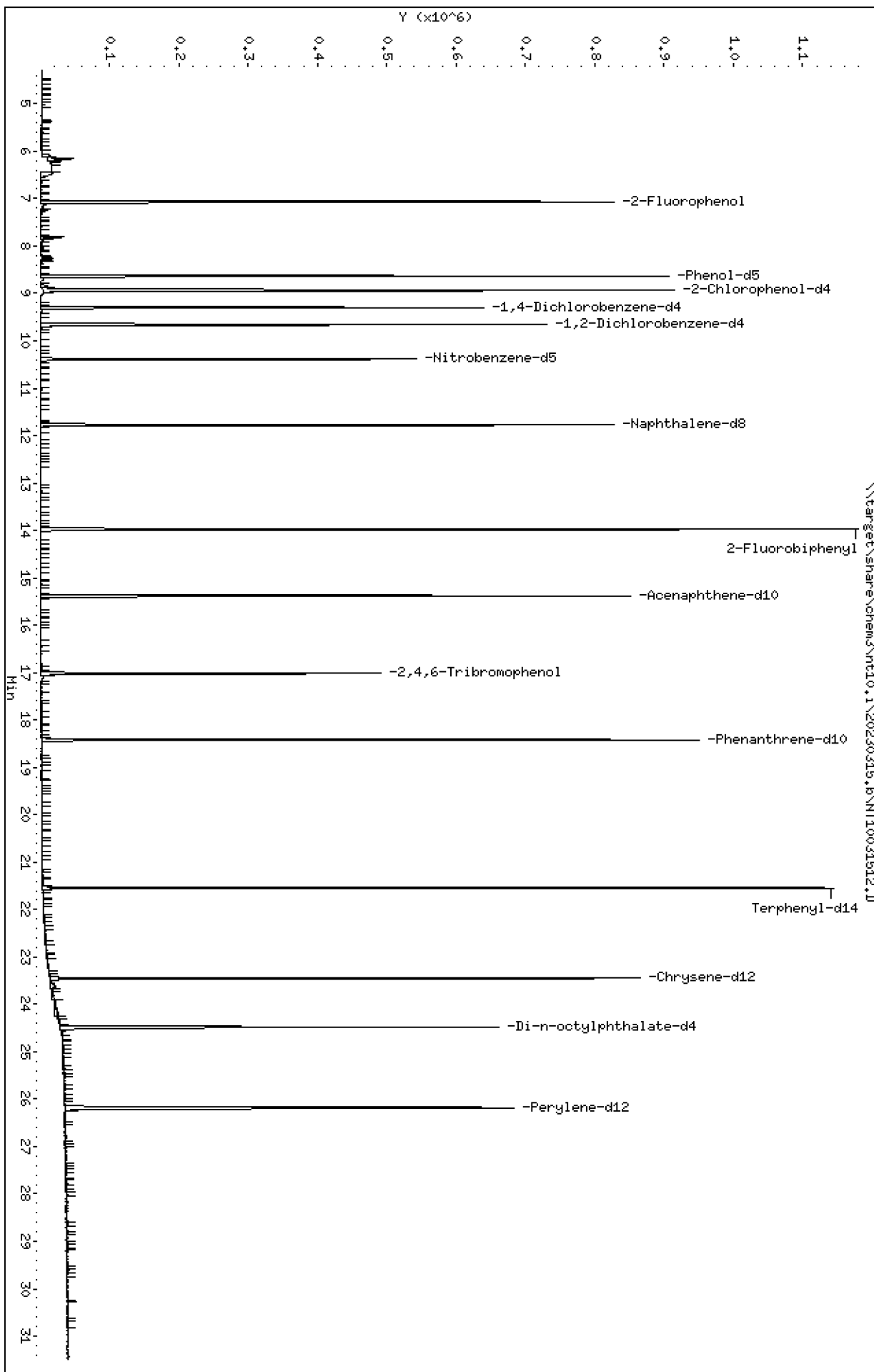
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031512.D  
 Lab Smp Id: SLC0228-ICB1  
 Inj Date : 16-MAR-2023 02:54  
 Operator : VTS Inst ID: nt10.i  
 Smp Info : SLC0228-ICB1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD  
 Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D  
 Als bottle: 12  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |         |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|---------|
|                                 |       |     |                        |        |         |          | ON-COLUMN      | FINAL   |
|                                 | MASS  |     |                        |        |         |          | (ug/mL)        | (ug/mL) |
| =====                           | ====  |     | ====                   | =====  | =====   | =====    | =====          | =====   |
| \$ 1 2-Fluorophenol             | 112   |     | 7.067                  | 7.068  | (0.760) | 362536   | 6.92497        | 6.925   |
| \$ 2 Phenol-d5                  | 99    |     | 8.636                  | 8.636  | (0.928) | 477145   | 6.94756        | 6.948   |
| 3 Phenol                        | 94    |     | Compound Not Detected. |        |         |          |                |         |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.929                  | 8.930  | (0.960) | 416453   | 7.10111        | 7.101   |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | Compound Not Detected. |        |         |          |                |         |
| 6 2-Chlorophenol                | 128   |     | Compound Not Detected. |        |         |          |                |         |
| 7 1,3-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |         |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.301                  | 9.293  | (1.000) | 173115   | 4.00000        |         |
| 9 1,4-Dichlorobenzene           | 146   |     | Compound Not Detected. |        |         |          |                |         |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.658                  | 9.658  | (1.038) | 194128   | 4.60926        | 4.609   |
| 12 1,2-Dichlorobenzene          | 146   |     | Compound Not Detected. |        |         |          |                |         |
| 11 Benzyl alcohol               | 108   |     | Compound Not Detected. |        |         |          |                |         |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | Compound Not Detected. |        |         |          |                |         |
| 13 2-Methylphenol               | 108   |     | Compound Not Detected. |        |         |          |                |         |
| 17 Hexachloroethane             | 117   |     | Compound Not Detected. |        |         |          |                |         |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | Compound Not Detected. |        |         |          |                |         |
| 15 4-Methylphenol               | 108   |     | Compound Not Detected. |        |         |          |                |         |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.387                 | 10.388 | (0.882) | 294159   | 4.65645        | 4.656   |
| 19 Nitrobenzene                 | 77    |     | Compound Not Detected. |        |         |          |                |         |
| 20 Isophorone                   | 82    |     | Compound Not Detected. |        |         |          |                |         |
| 21 2-Nitrophenol                | 139   |     | Compound Not Detected. |        |         |          |                |         |
| 22 2,4-Dimethylphenol           | 107   |     | Compound Not Detected. |        |         |          |                |         |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | Compound Not Detected. |        |         |          |                |         |
| 24 Benzoic acid                 | 105   |     | Compound Not Detected. |        |         |          |                |         |
| 25 2,4-Dichlorophenol           | 162   |     | Compound Not Detected. |        |         |          |                |         |
| 26 1,2,4-Trichlorobenzene       | 180   |     | Compound Not Detected. |        |         |          |                |         |
| * 27 Naphthalene-d8             | 136   |     | 11.776                 | 11.770 | (1.000) | 625865   | 4.00000        |         |
| 28 Naphthalene                  | 128   |     | Compound Not Detected. |        |         |          |                |         |
| 29 4-Chloroaniline              | 127   |     | Compound Not Detected. |        |         |          |                |         |
| 30 Hexachlorobutadiene          | 225   |     | Compound Not Detected. |        |         |          |                |         |
| 31 4-Chloro-3-methylphenol      | 107   |     | Compound Not Detected. |        |         |          |                |         |
| 32 2-Methylnaphthalene          | 142   |     | Compound Not Detected. |        |         |          |                |         |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                |         |

| Compounds                         | QUANT<br>MASS | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-----------------------------------|---------------|-----|--------|--------|---------|----------|----------------------|------------------|
|                                   |               |     |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196           |     |        |        |         |          |                      |                  |
| 35 2,4,5-Trichlorophenol          | 196           |     |        |        |         |          |                      |                  |
| \$ 36 2-Fluorobiphenyl            | 172           |     | 13.981 | 13.975 | (0.909) | 615156   | 4.73090              | 4.731            |
| 37 2-Chloronaphthalene            | 162           |     |        |        |         |          |                      |                  |
| 38 2-Nitroaniline                 | 65            |     |        |        |         |          |                      |                  |
| 39 Dimethylphthalate              | 163           |     |        |        |         |          |                      |                  |
| 40 Acenaphthylene                 | 152           |     |        |        |         |          |                      |                  |
| 41 2,6-Dinitrotoluene             | 165           |     |        |        |         |          |                      |                  |
| * 42 Acenaphthene-d10             | 164           |     | 15.382 | 15.383 | (1.000) | 328712   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138           |     |        |        |         |          |                      |                  |
| 44 Acenaphthene                   | 153           |     |        |        |         |          |                      |                  |
| 45 2,4-Dinitrophenol              | 184           |     |        |        |         |          |                      |                  |
| 46 Dibenzofuran                   | 168           |     |        |        |         |          |                      |                  |
| 47 4-Nitrophenol                  | 109           |     |        |        |         |          |                      |                  |
| 48 2,4-Dinitrotoluene             | 165           |     |        |        |         |          |                      |                  |
| 50 Diethylphthalate               | 149           |     |        |        |         |          |                      |                  |
| 49 Fluorene                       | 166           |     |        |        |         |          |                      |                  |
| 51 4-Chlorophenyl-phenylether     | 204           |     |        |        |         |          |                      |                  |
| 52 4-Nitroaniline                 | 138           |     |        |        |         |          |                      |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198           |     |        |        |         |          |                      |                  |
| 54 N-Nitrosodiphenylamine         | 169           |     |        |        |         |          |                      |                  |
| \$ 55 2,4,6-Tribromophenol        | 330           |     | 17.020 | 17.021 | (1.106) | 85879    | 5.59351              | 5.594            |
| 56 4-Bromophenyl-phenylether      | 248           |     |        |        |         |          |                      |                  |
| 57 Hexachlorobenzene              | 284           |     |        |        |         |          |                      |                  |
| 58 Pentachlorophenol              | 266           |     |        |        |         |          |                      |                  |
| * 59 Phenanthrene-d10             | 188           |     | 18.419 | 18.420 | (1.000) | 592693   | 4.00000              |                  |
| 60 Phenanthrene                   | 178           |     |        |        |         |          |                      |                  |
| 61 Anthracene                     | 178           |     |        |        |         |          |                      |                  |
| 62 Carbazole                      | 167           |     |        |        |         |          |                      |                  |
| 63 Di-n-butylphthalate            | 149           |     |        |        |         |          |                      |                  |
| 64 Fluoranthene                   | 202           |     |        |        |         |          |                      |                  |
| 65 Pyrene                         | 202           |     |        |        |         |          |                      |                  |
| \$ 66 Terphenyl-d14               | 244           |     | 21.544 | 21.538 | (0.919) | 627405   | 4.58345              | 4.583            |
| 67 Butylbenzylphthalate           | 149           |     |        |        |         |          |                      |                  |
| 68 Benzo(a)anthracene             | 228           |     |        |        |         |          |                      |                  |
| * 69 Chrysene-d12                 | 240           |     | 23.449 | 23.450 | (1.000) | 442208   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252           |     |        |        |         |          |                      |                  |
| 71 Chrysene                       | 228           |     |        |        |         |          |                      |                  |
| 72 bis(2-Ethylhexyl)phthalate     | 149           |     |        |        |         |          |                      |                  |
| * 134 Di-n-octylphthalate-d4      | 153           |     | 24.479 | 24.480 | (1.000) | 526309   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149           |     |        |        |         |          |                      |                  |
| 74 Benzo(b)fluoranthene           | 252           |     |        |        |         |          |                      |                  |
| 75 Benzo(k)fluoranthene           | 252           |     |        |        |         |          |                      |                  |
| 76 Benzo(a)pyrene                 | 252           |     |        |        |         |          |                      |                  |
| * 77 Perylene-d12                 | 264           |     | 26.182 | 26.183 | (1.000) | 499804   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276           |     |        |        |         |          |                      |                  |
| 79 Dibenzo(a,h)anthracene         | 278           |     |        |        |         |          |                      |                  |
| 80 Benzo(g,h,i)perylene           | 276           |     |        |        |         |          |                      |                  |
| 90 N-Nitrosodimethylamine         | 74            |     |        |        |         |          |                      |                  |
| 91 Aniline                        | 93            |     |        |        |         |          |                      |                  |
| 93 Benzidine                      | 184           |     |        |        |         |          |                      |                  |
| 103 Pyridine                      | 79            |     |        |        |         |          |                      |                  |
| 105 1-methylnaphthalene           | 142           |     |        |        |         |          |                      |                  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77            |     |        |        |         |          |                      |                  |

| Compounds                     | QUANT<br>MASS | SIG   |       |        |                        |          | CONCENTRATIONS       |                  |
|-------------------------------|---------------|-------|-------|--------|------------------------|----------|----------------------|------------------|
|                               |               |       | RT    | EXP RT | REL RT                 | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| =====                         | =====         | ===== | ===== | =====  | =====                  | =====    | =====                |                  |
| 187 Total Benzofluoranthenes  | 252           |       |       |        | Compound Not Detected. |          |                      |                  |
| 120 2,3,4,6-Tetrachlorophenol | 232           |       |       |        | Compound Not Detected. |          |                      |                  |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023  
 Lab File ID: NT10031512.D Calibration Time: 21:50  
 Lab Smp Id: SLC0228-ICB1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 171542   | 85771      | 343084  | 173115 | 0.92  |
| 27 Naphthalene-d8     | 624466   | 312233     | 1248932 | 625865 | 0.22  |
| 42 Acenaphthene-d10   | 337226   | 168613     | 674452  | 328712 | -2.52 |
| 59 Phenanthrene-d10   | 572849   | 286425     | 1145698 | 592693 | 3.46  |
| 69 Chrysene-d12       | 347068   | 173534     | 694136  | 442208 | 27.41 |
| 134 Di-n-octylphthala | 500317   | 250159     | 1000634 | 526309 | 5.20  |
| 77 Perylene-d12       | 421549   | 210775     | 843098  | 499804 | 18.56 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.30     | 8.80     | 9.80  | 9.30   | -0.00 |
| 27 Naphthalene-d8     | 11.78    | 11.28    | 12.28 | 11.78  | -0.00 |
| 42 Acenaphthene-d10   | 15.38    | 14.88    | 15.88 | 15.38  | -0.00 |
| 59 Phenanthrene-d10   | 18.42    | 17.92    | 18.92 | 18.42  | -0.00 |
| 69 Chrysene-d12       | 23.45    | 22.95    | 23.95 | 23.45  | -0.00 |
| 134 Di-n-octylphthala | 24.48    | 23.98    | 24.98 | 24.48  | -0.00 |
| 77 Perylene-d12       | 26.18    | 25.68    | 26.68 | 26.18  | -0.00 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



REVIEW SUMMARY FOR FILE - NT10031512.D

Lab ID: SLC0228-ICB1  
nt10.i, 20230315.b\ABN.m, 16-MAR-2023 02:54

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

---

NONE

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*



**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-SCV1

**Sequence:** SLB0374

**Sequence Name:** SCV 5.0

**Standard ID:** K010066

| ANALYTE                      | EXPECTED<br>(ug/mL) | FOUND<br>(ug/mL) | % DRIFT | QC LIMIT |
|------------------------------|---------------------|------------------|---------|----------|
| Phenol                       | 5.0000              | 3.9              | -21.3 * | 20.00    |
| bis(2-chloroethyl) ether     | 5.0000              | 5.2              | 4.7     | 20.00    |
| 2-Chlorophenol               | 5.0000              | 4.6              | -7.4    | 20.00    |
| 1,3-Dichlorobenzene          | 5.0000              | 4.8              | -4.1    | 20.00    |
| 1,4-Dichlorobenzene          | 5.0000              | 4.8              | -4.0    | 20.00    |
| 1,2-Dichlorobenzene          | 5.0000              | 4.8              | -3.9    | 20.00    |
| Benzyl Alcohol               | 5.0000              | 4.3              | -13.9   | 20.00    |
| 2,2'-Oxybis(1-chloropropane) | 5.0000              | 5.5              | 10.2    | 20.00    |
| 2-Methylphenol               | 5.0000              | 4.4              | -11.9   | 20.00    |
| Hexachloroethane             | 5.0000              | 5.1              | 1.8     | 20.00    |
| N-Nitroso-di-n-Propylamine   | 5.0000              | 5.1              | 2.8     | 20.00    |
| 4-Methylphenol               | 5.0000              | 4.2              | -15.6   | 20.00    |
| Nitrobenzene                 | 5.0000              | 5.1              | 1.2     | 20.00    |
| Isophorone                   | 5.0000              | 6.4              | 28.2 *  | 20.00    |
| 2-Nitrophenol                | 5.0000              | 4.1              | -17.5   | 20.00    |
| 2,4-Dimethylphenol           | 5.0000              | 3.9              | -22.2 * | 20.00    |
| Bis(2-Chloroethoxy)methane   | 5.0000              | 5.8              | 15.3    | 20.00    |
| 2,4-Dichlorophenol           | 5.0000              | 4.8              | -4.3    | 20.00    |
| 1,2,4-Trichlorobenzene       | 5.0000              | 4.8              | -4.2    | 20.00    |
| Naphthalene                  | 5.0000              | 4.8              | -4.7    | 20.00    |
| Benzoic acid                 | 10.0000             | 4.1              | -59.3 * | 20.00    |
| 4-Chloroaniline              | 5.0000              | 3.9              | -22.1 * | 20.00    |
| Hexachlorobutadiene          | 5.0000              | 4.8              | -3.9    | 20.00    |
| 4-Chloro-3-Methylphenol      | 5.0000              | 4.9              | -2.8    | 20.00    |
| 2-Methylnaphthalene          | 5.0000              | 4.6              | -7.5    | 20.00    |
| Hexachlorocyclopentadiene    | 5.0000              | 4.5              | -9.3    | 20.00    |
| 2,4,6-Trichlorophenol        | 5.0000              | 4.8              | -4.2    | 20.00    |
| 2,4,5-Trichlorophenol        | 5.0000              | 4.7              | -6.6    | 20.00    |
| 2-Chloronaphthalene          | 5.0000              | 4.9              | -1.8    | 20.00    |
| 2-Nitroaniline               | 5.0000              | 5.0              | -0.4    | 20.00    |
| Acenaphthylene               | 5.0000              | 5.0              | -0.5    | 20.00    |
| Dimethylphthalate            | 5.0000              | 5.2              | 4.1     | 20.00    |
| 2,6-Dinitrotoluene           | 5.0000              | 5.2              | 4.5     | 20.00    |
| Acenaphthene                 | 5.0000              | 4.8              | -4.7    | 20.00    |



**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-SCV1

**Sequence:** SLB0374

**Sequence Name:** SCV 5.0

**Standard ID:** K010066

|                             |        |      |         |       |
|-----------------------------|--------|------|---------|-------|
| 3-Nitroaniline              | 5.0000 | 4.9  | -2.6    | 20.00 |
| 2,4-Dinitrophenol           | 5.0000 | 1.0  | -80.4 * | 20.00 |
| Dibenzofuran                | 5.0000 | 4.7  | -5.6    | 20.00 |
| 4-Nitrophenol               | 5.0000 | 3.9  | -21.3 * | 20.00 |
| 2,4-Dinitrotoluene          | 5.0000 | 4.9  | -1.2    | 20.00 |
| Fluorene                    | 5.0000 | 4.8  | -4.1    | 20.00 |
| 4-Chlorophenylphenyl ether  | 5.0000 | 4.9  | -2.3    | 20.00 |
| Diethyl phthalate           | 5.0000 | 5.4  | 8.4     | 20.00 |
| 4-Nitroaniline              | 5.0000 | 4.6  | -8.8    | 20.00 |
| 4,6-Dinitro-2-methylphenol  | 5.0000 | 3.2  | -35.3 * | 20.00 |
| N-Nitrosodiphenylamine      | 5.0000 | 5.0  | -0.4    | 20.00 |
| 4-Bromophenyl phenyl ether  | 5.0000 | 5.2  | 3.0     | 20.00 |
| Hexachlorobenzene           | 5.0000 | 4.8  | -4.2    | 20.00 |
| Pentachlorophenol           | 5.0000 | 3.5  | -29.5 * | 20.00 |
| Phenanthrene                | 5.0000 | 4.6  | -7.7    | 20.00 |
| Anthracene                  | 5.0000 | 4.2  | -15.5   | 20.00 |
| Carbazole                   | 5.0000 | 4.8  | -4.5    | 20.00 |
| Di-n-Butylphthalate         | 5.0000 | 4.8  | -3.6    | 20.00 |
| Fluoranthene                | 5.0000 | 5.1  | 2.1     | 20.00 |
| Pyrene                      | 5.0000 | 5.0  | -0.9    | 20.00 |
| Butylbenzylphthalate        | 5.0000 | 5.0  | -0.7    | 20.00 |
| Benzo(a)anthracene          | 5.0000 | 4.9  | -1.7    | 20.00 |
| 3,3'-Dichlorobenzidine      | 10.000 | 10.3 | 2.9     | 20.00 |
| Chrysene                    | 5.0000 | 4.6  | -8.9    | 20.00 |
| bis(2-Ethylhexyl)phthalate  | 5.0000 | 5.3  | 5.5     | 20.00 |
| Di-n-Octylphthalate         | 5.0000 | 5.2  | 3.7     | 20.00 |
| Benzo(a)fluoranthene, Total | 10.000 | 9.6  | -4.4    | 20.00 |
| Benzo(a)pyrene              | 5.0000 | 4.9  | -2.3    | 20.00 |
| Indeno(1,2,3-cd)pyrene      | 5.0000 | 4.9  | -2.2    | 20.00 |
| Dibenzo(a,h)anthracene      | 5.0000 | 4.9  | -1.9    | 20.00 |
| Benzo(g,h,i)perylene        | 5.0000 | 4.9  | -2.8    | 20.00 |
| 1-Methylnaphthalene         | 5.0000 | 4.9  | -2.6    | 20.00 |

\* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022812.D

Date: 28-FEB-2023 17:41

Client ID:

Sample Info: SLB0374-SCV1

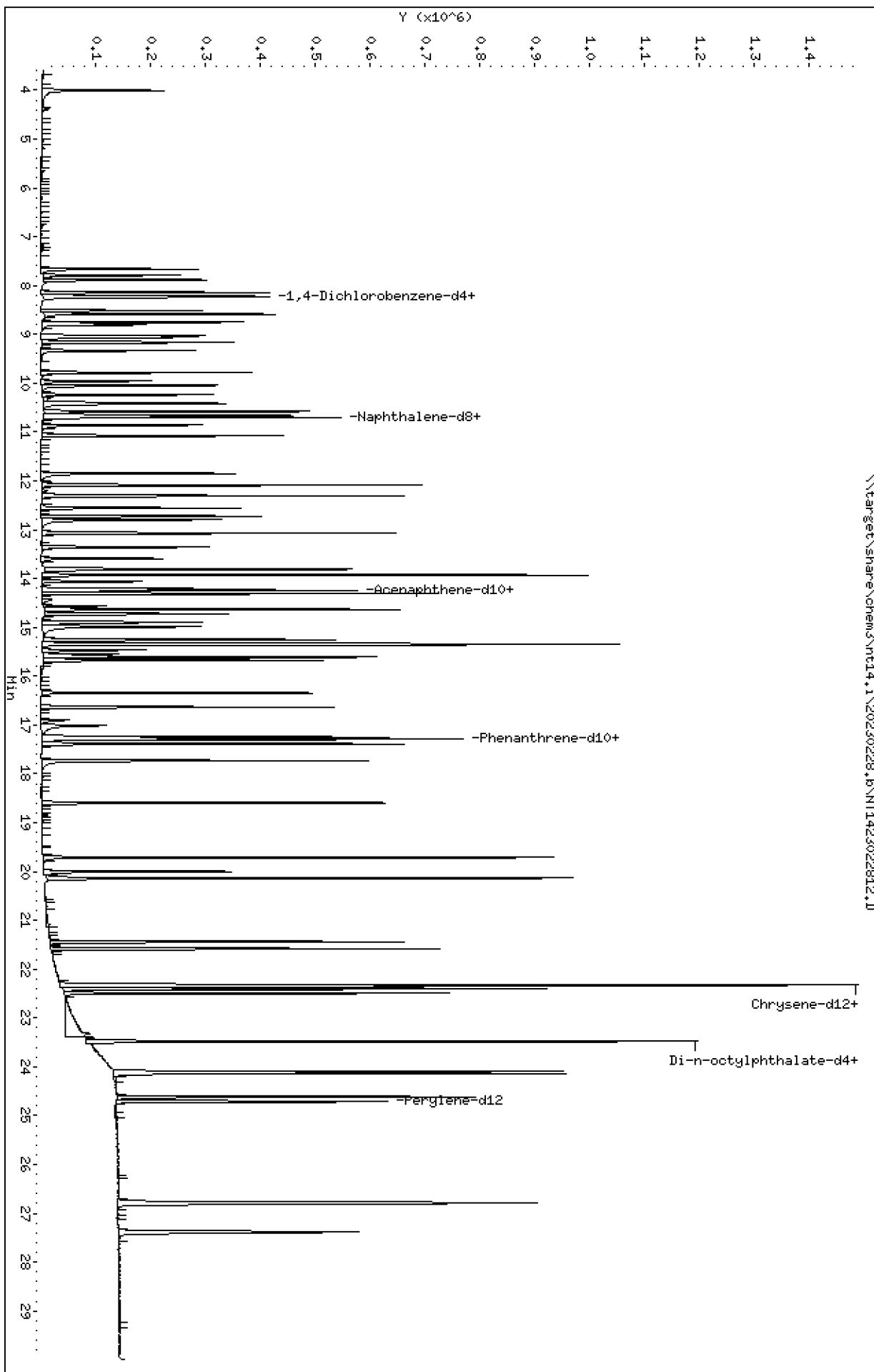
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

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Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

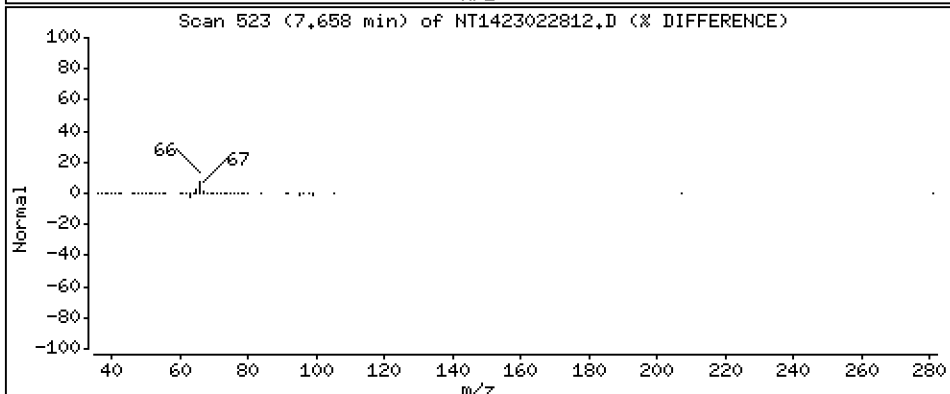
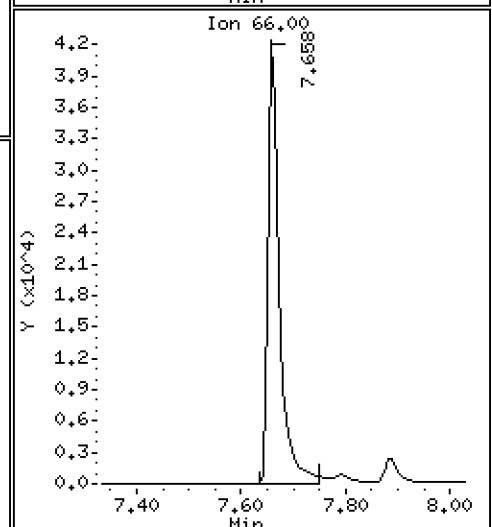
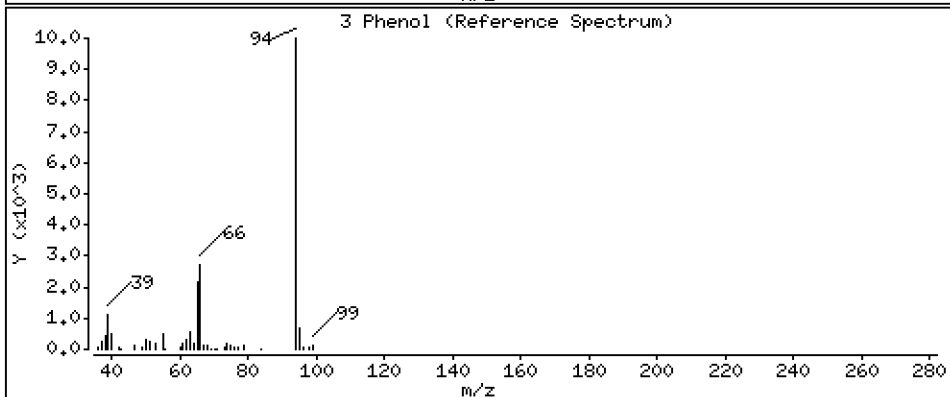
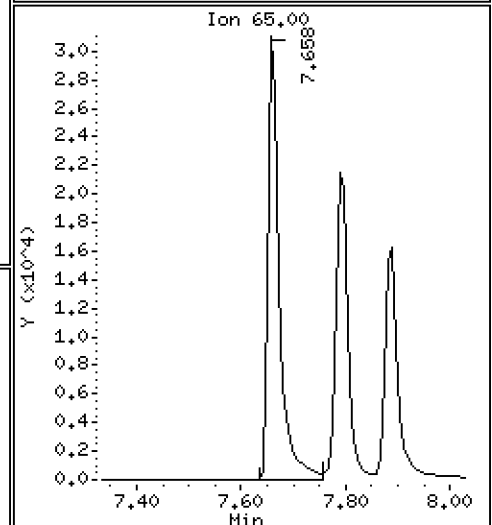
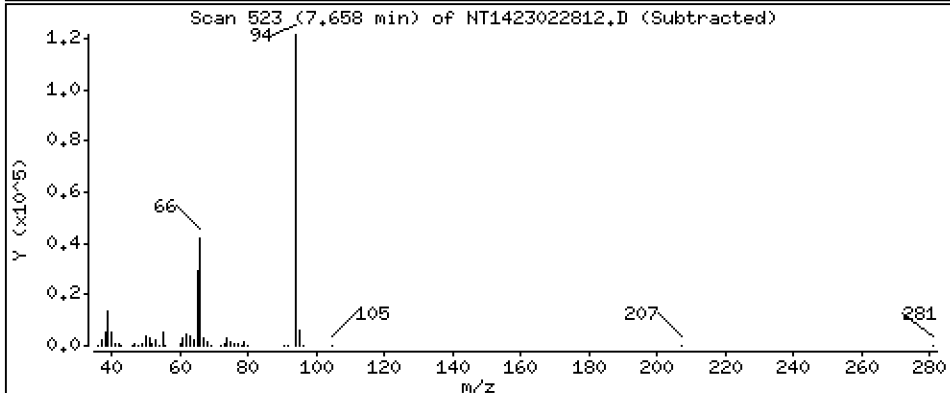
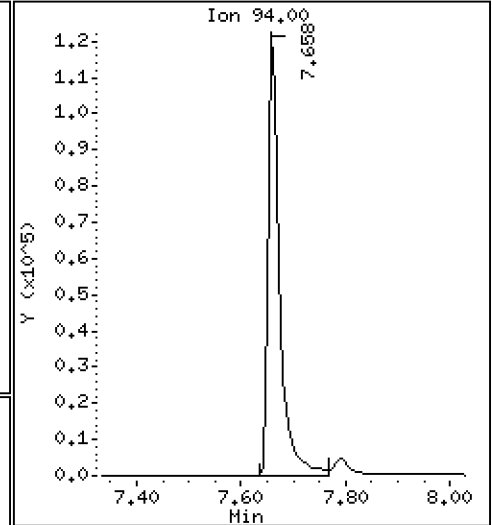
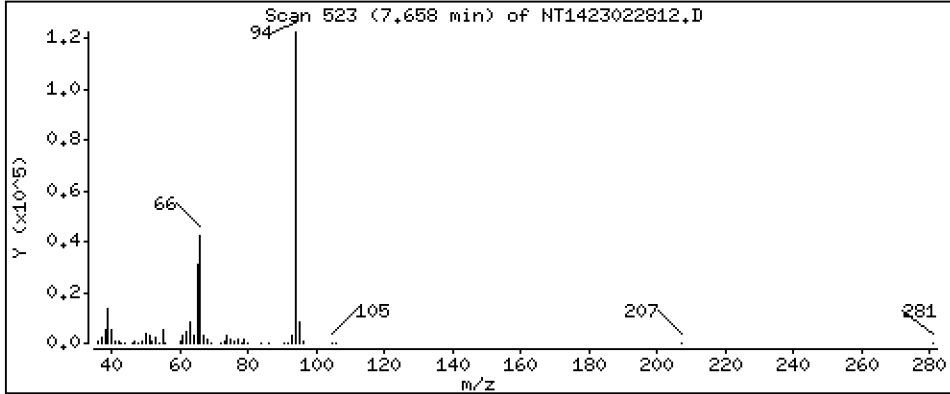
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 3,935 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

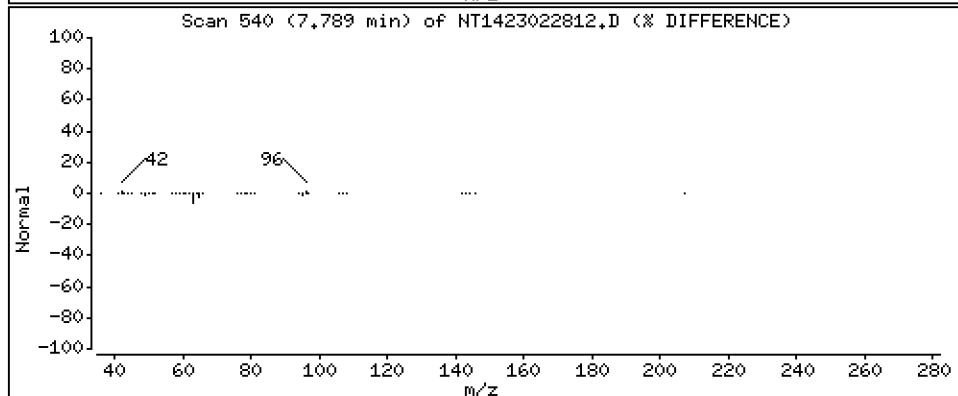
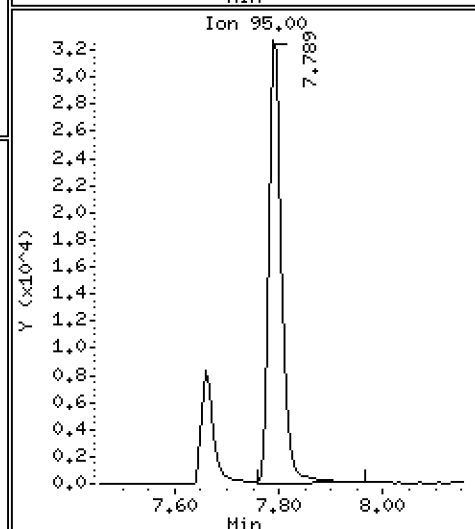
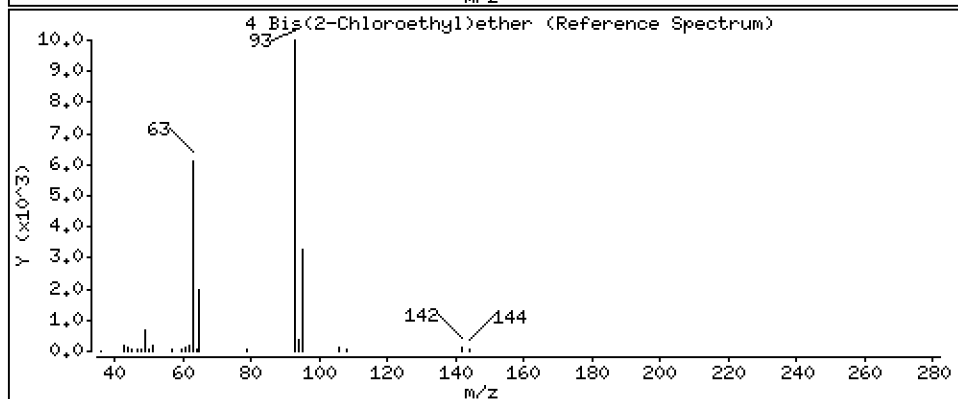
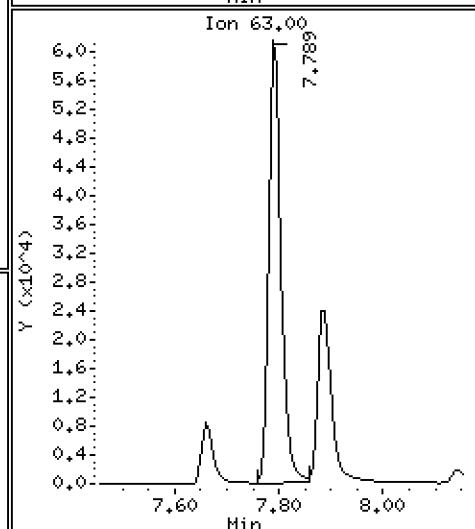
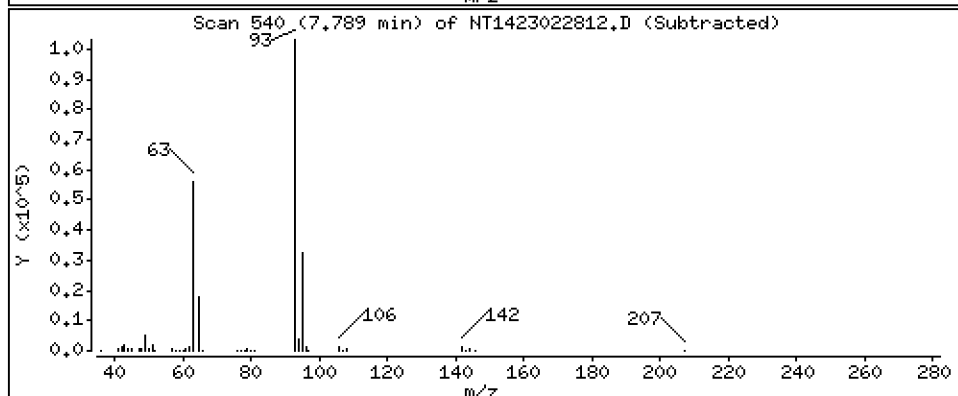
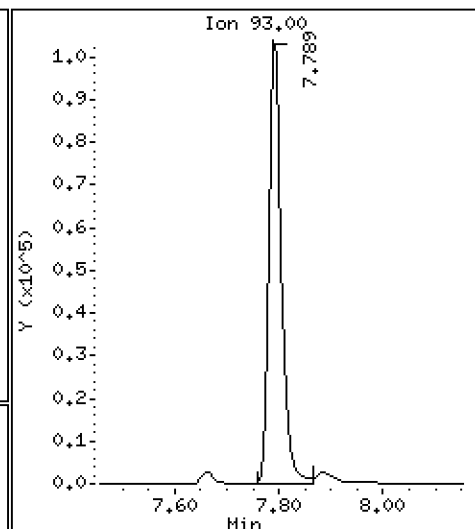
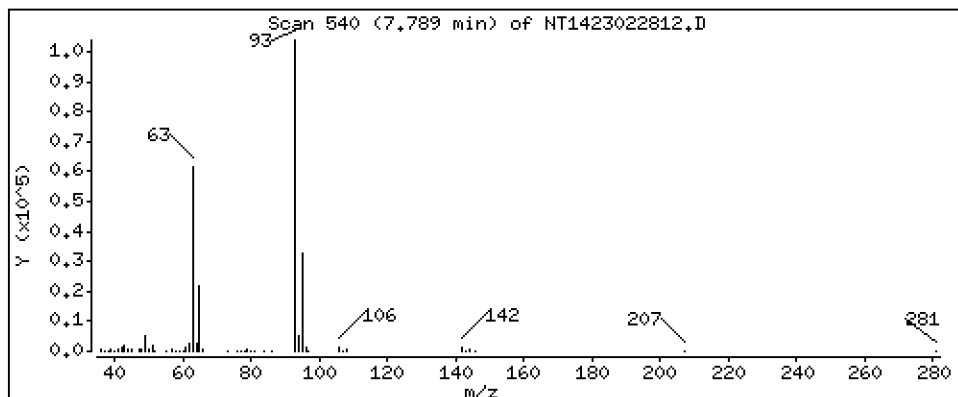
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 5.224 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

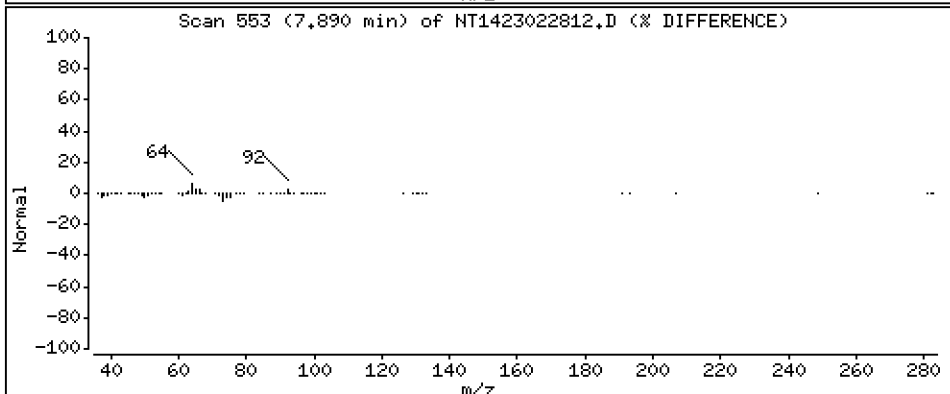
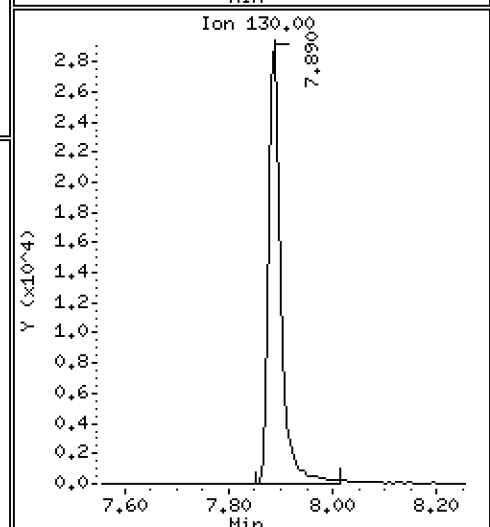
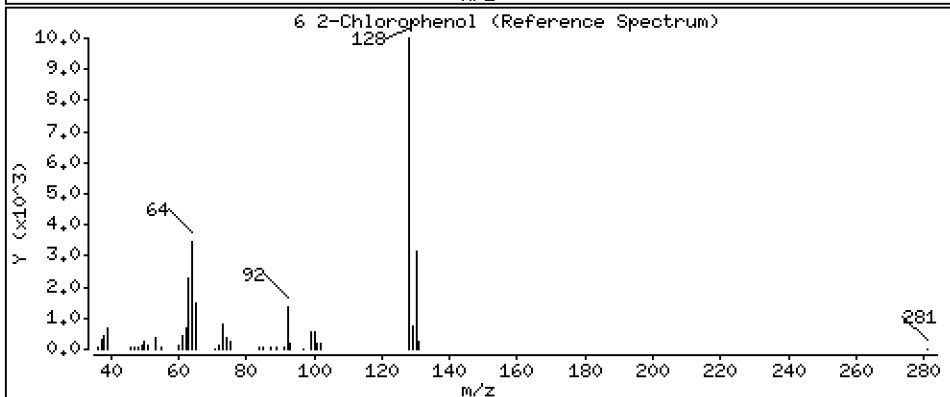
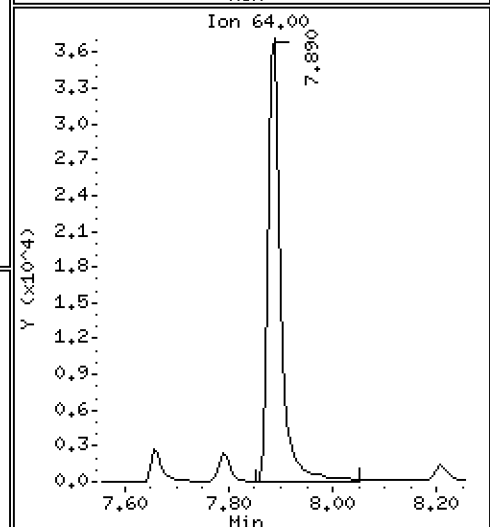
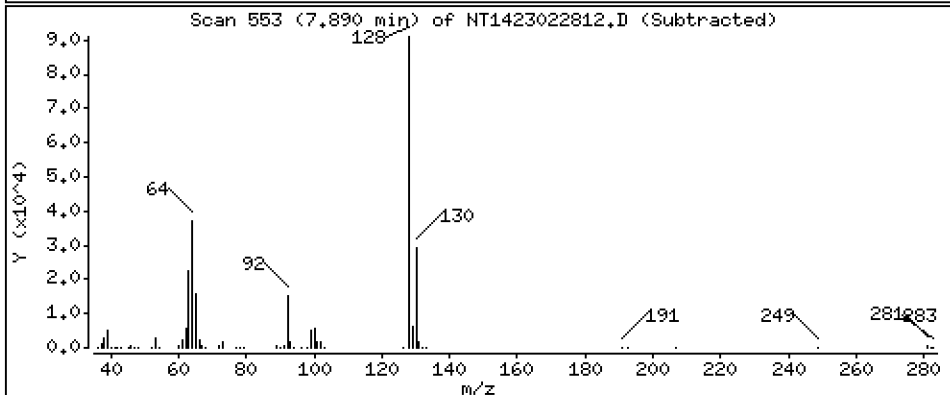
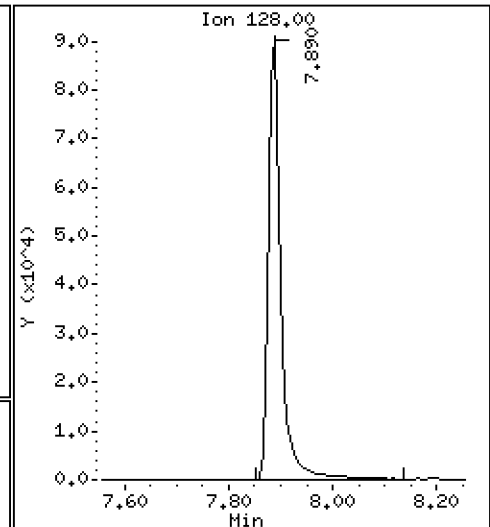
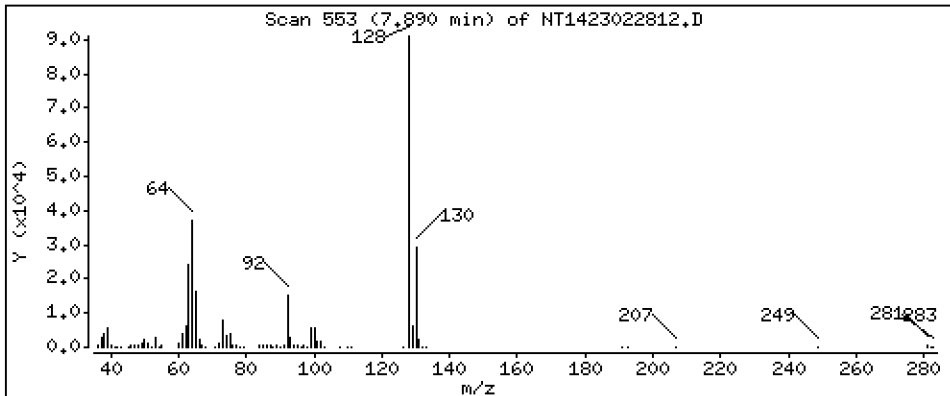
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,632 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

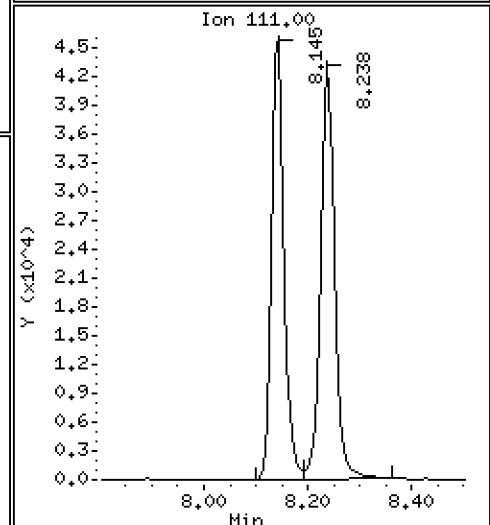
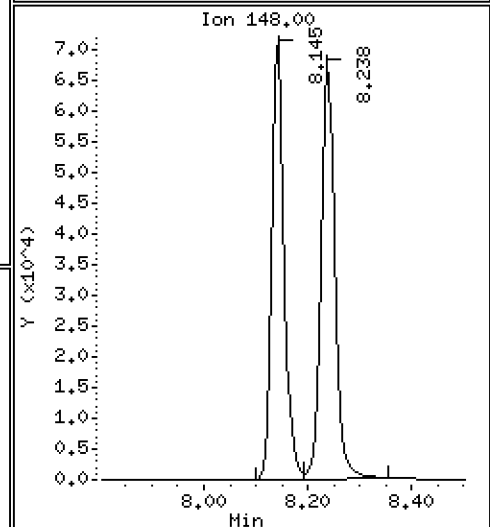
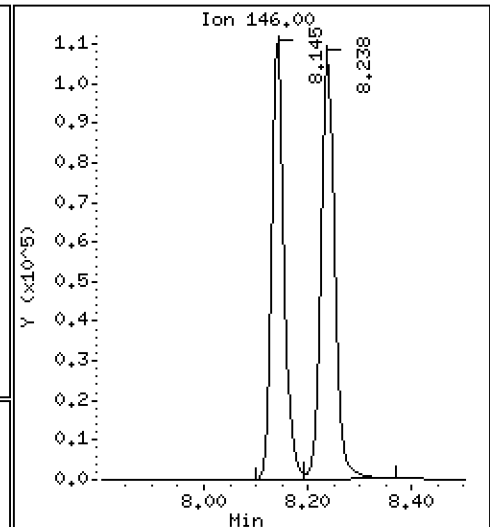
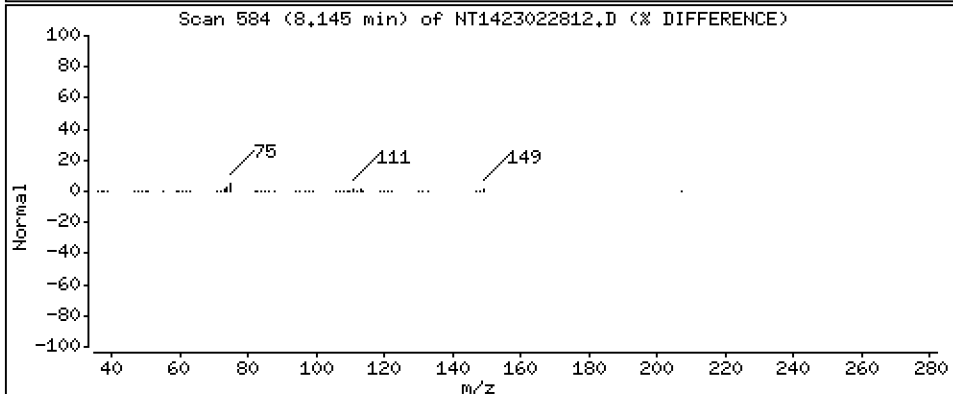
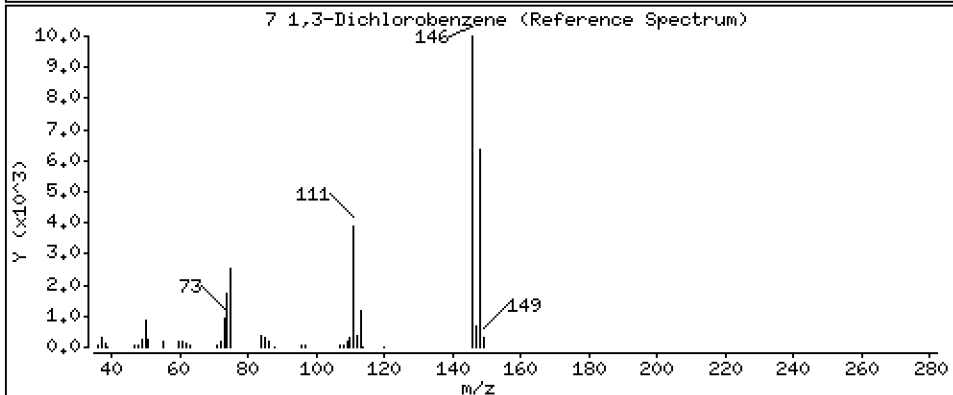
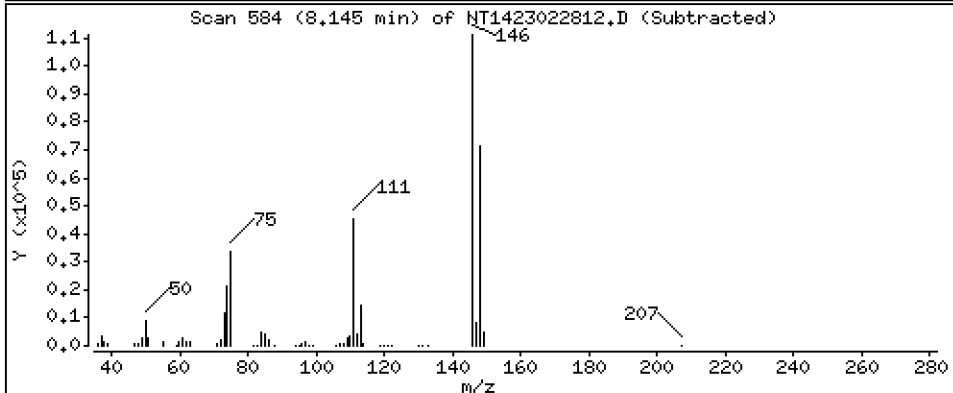
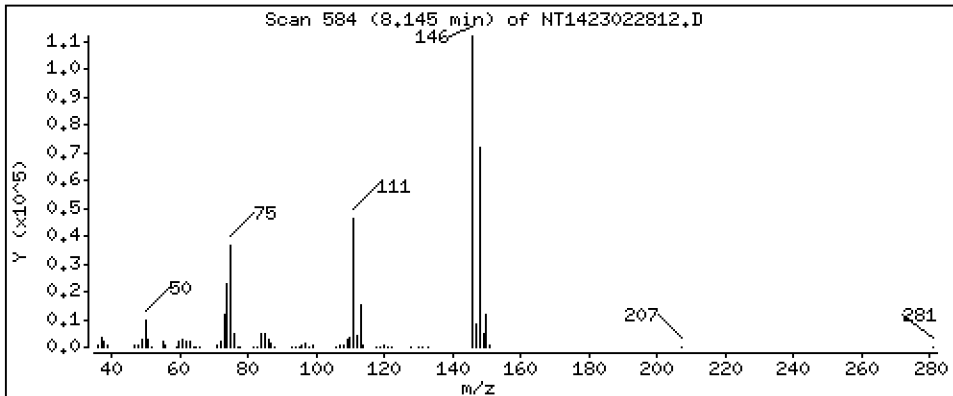
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 4,795 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

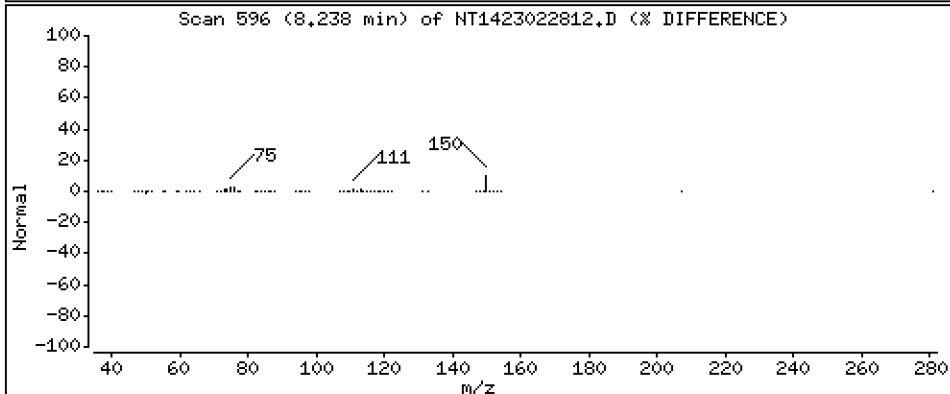
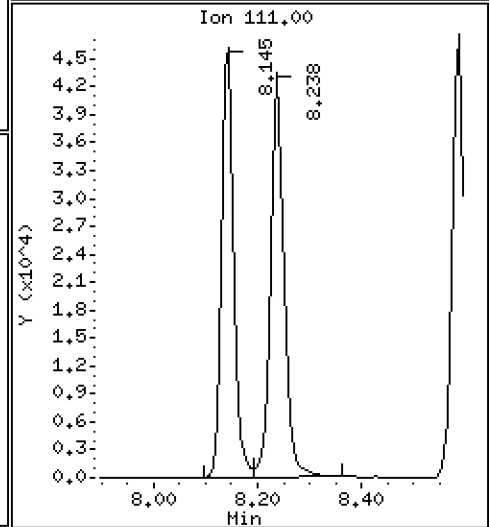
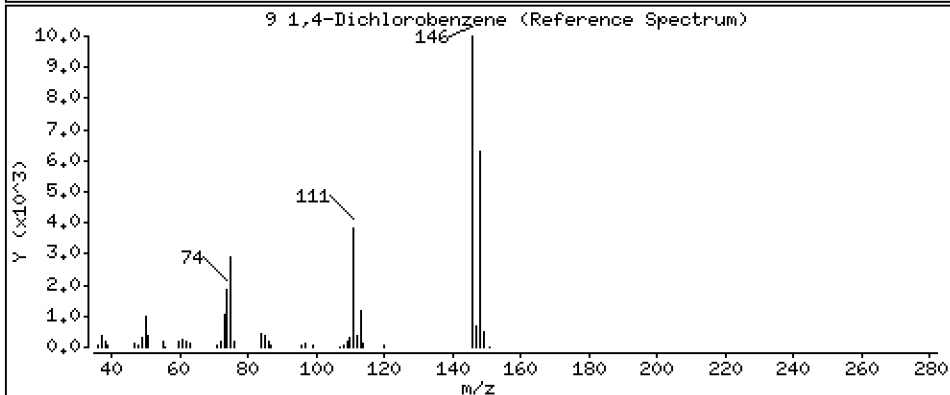
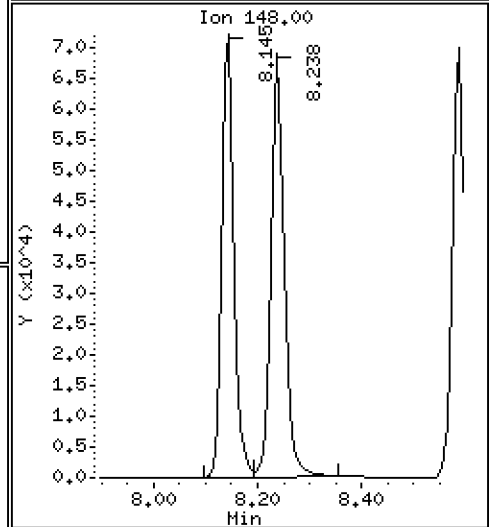
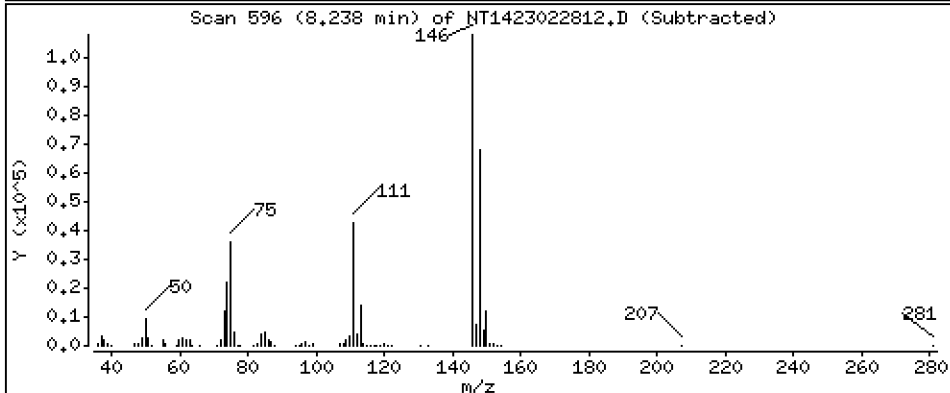
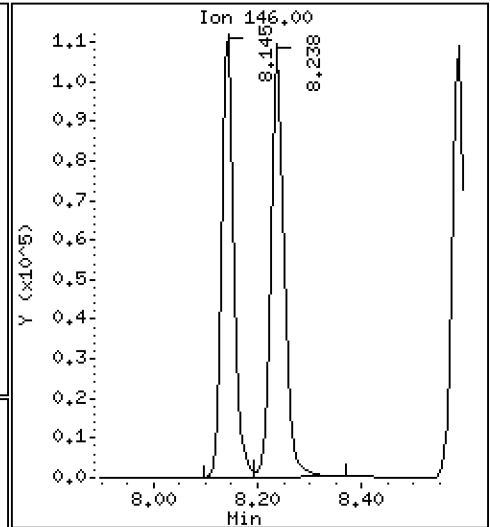
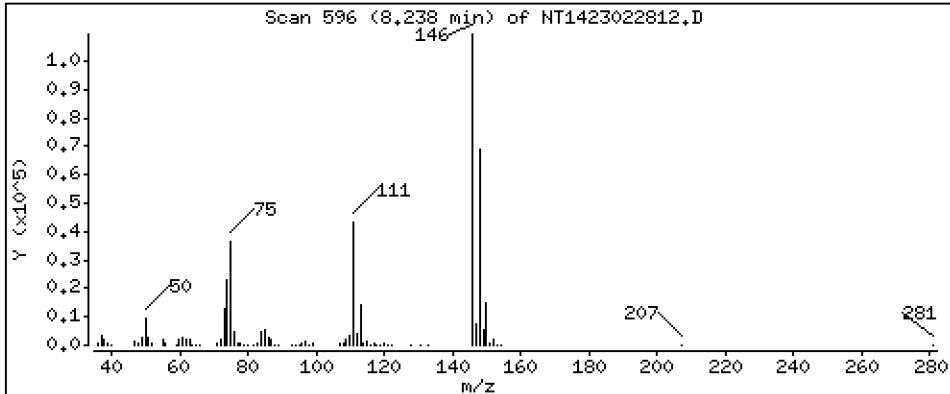
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,800 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

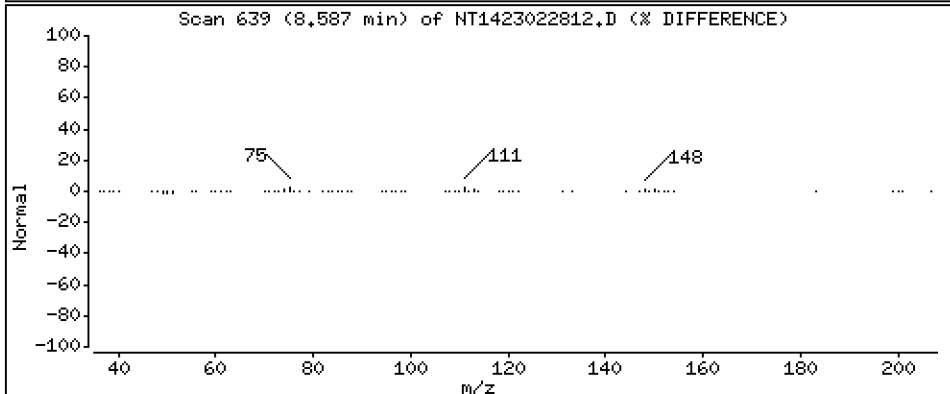
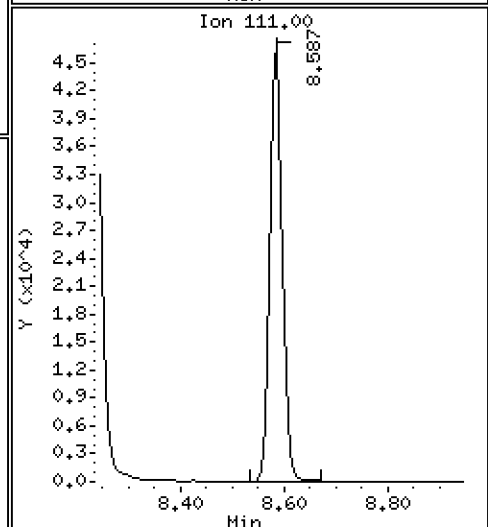
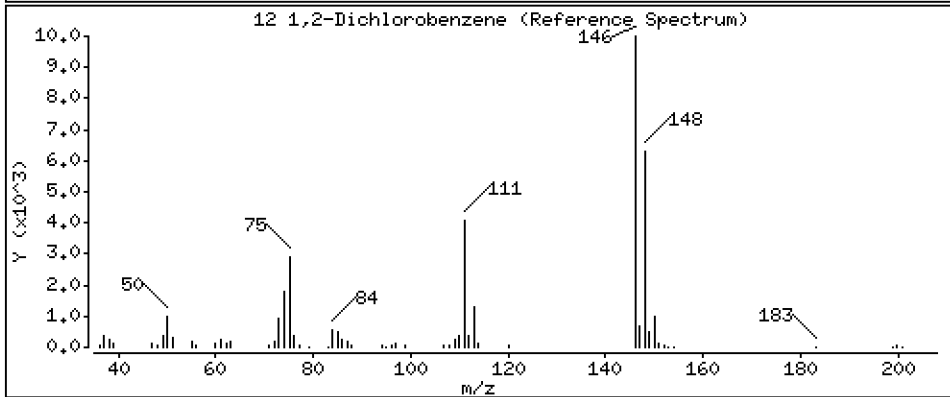
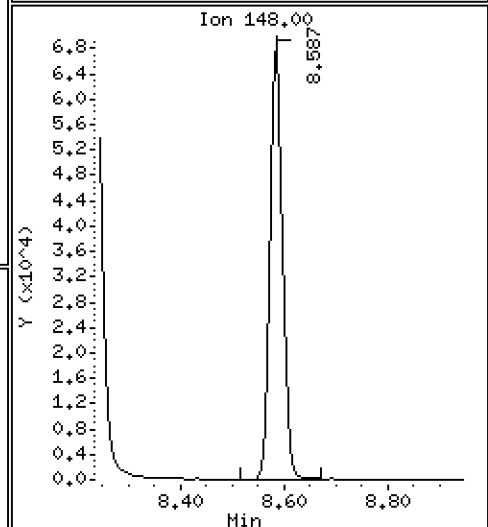
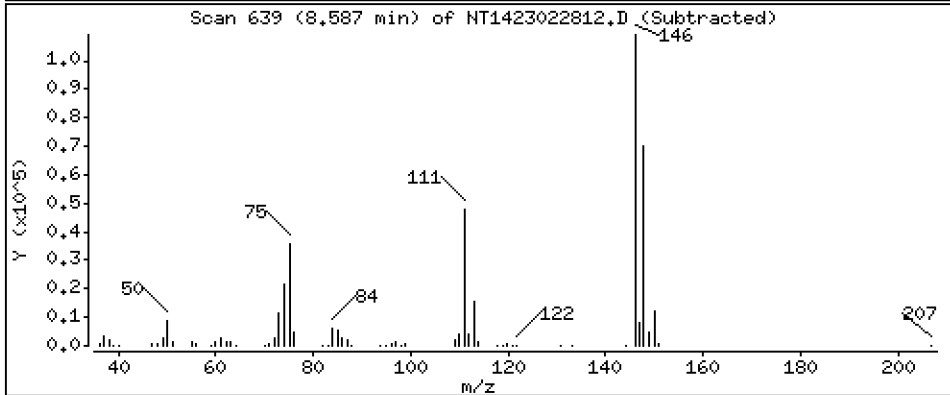
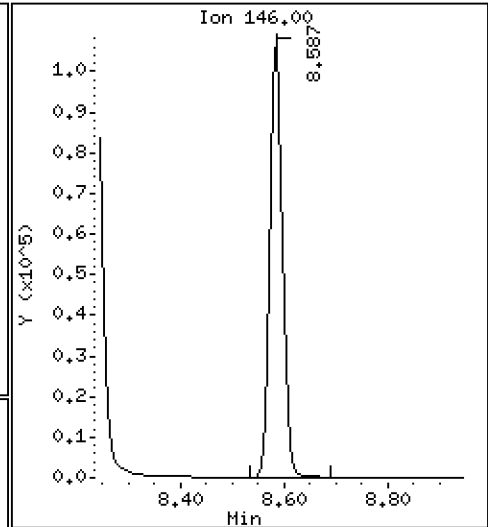
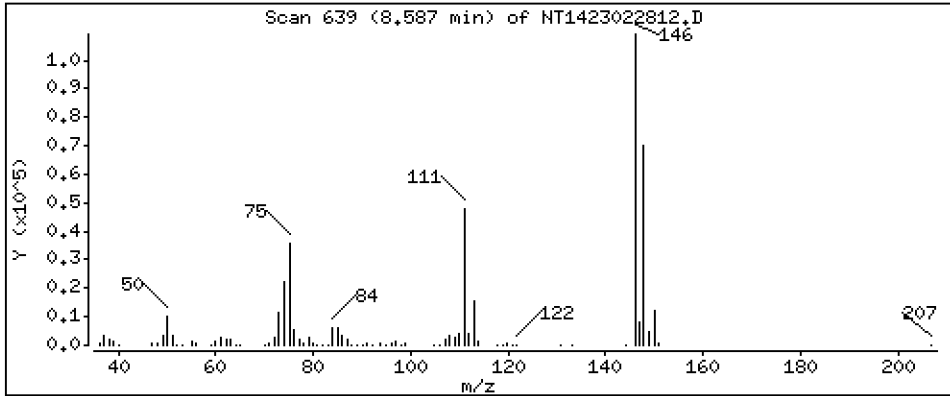
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 4.807 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

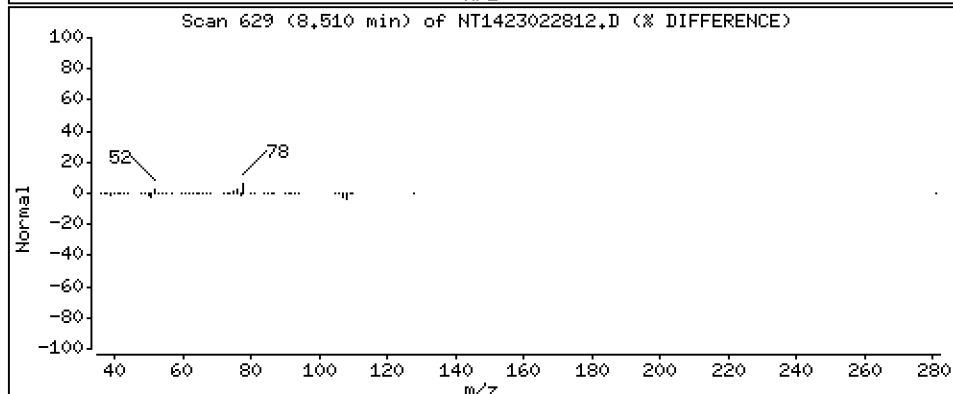
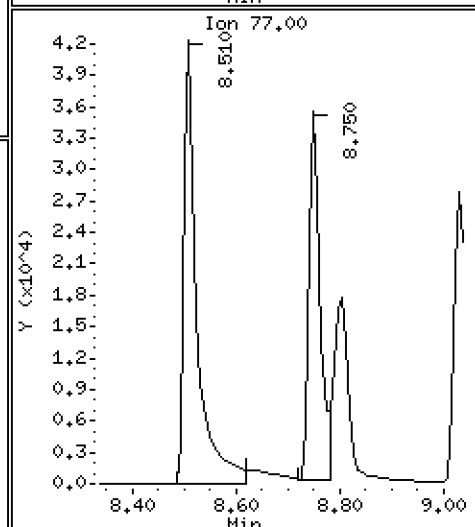
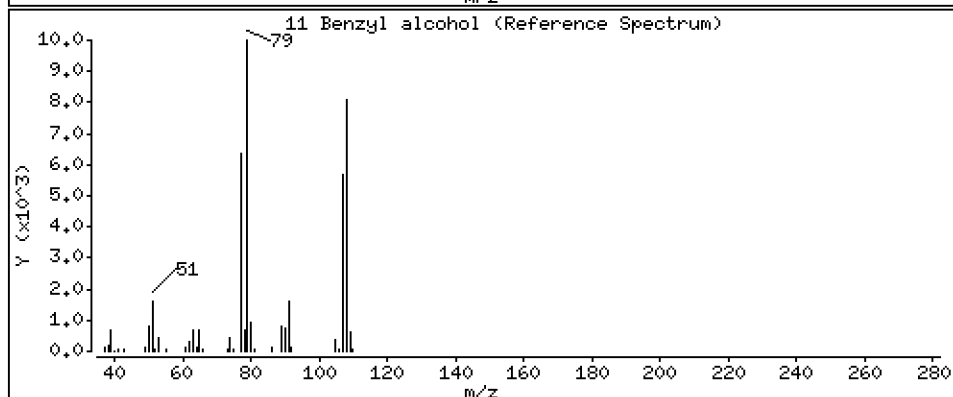
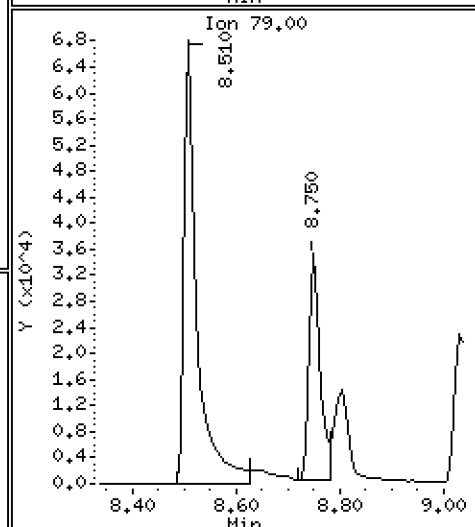
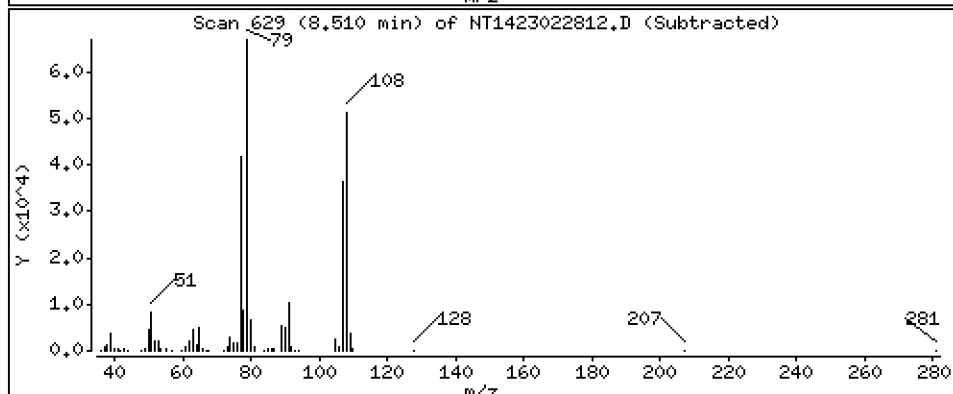
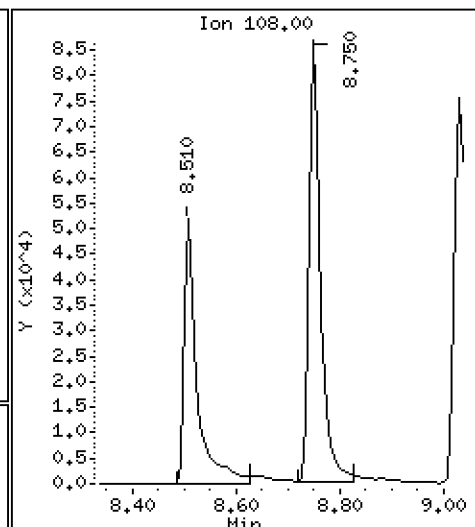
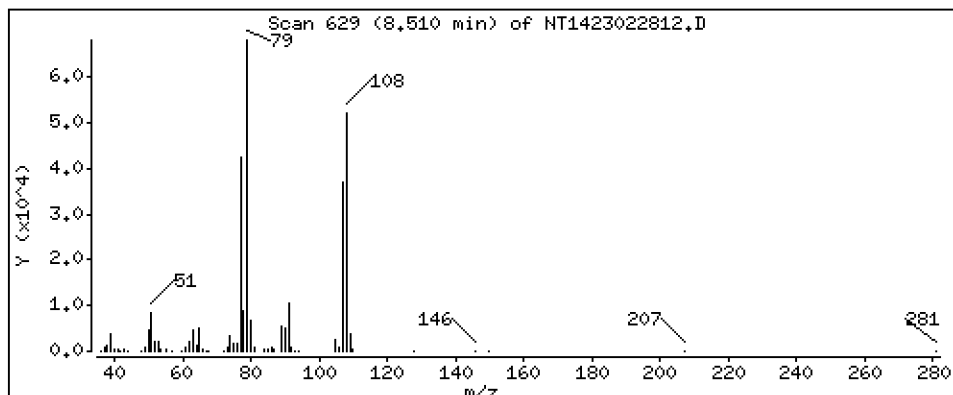
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.304 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

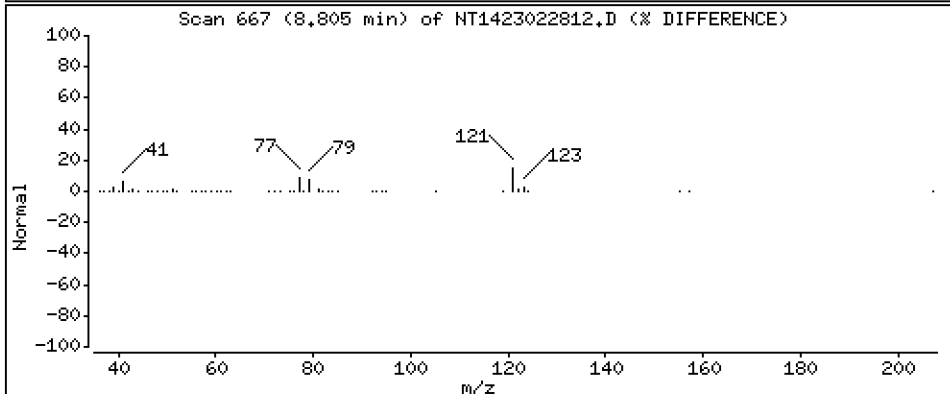
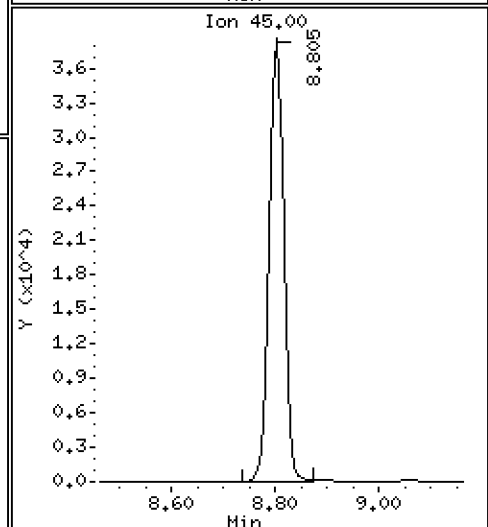
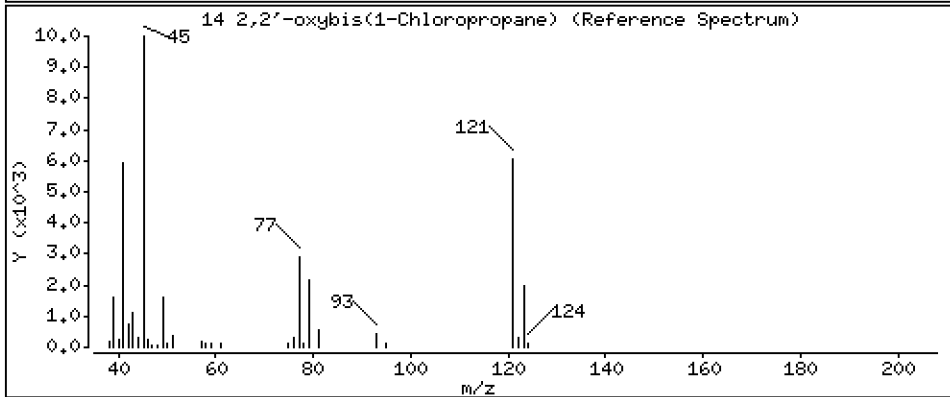
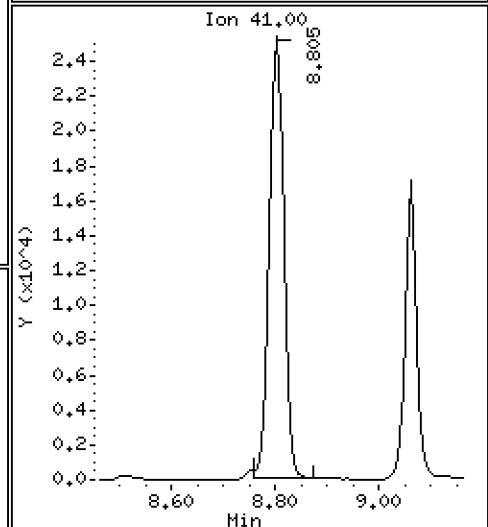
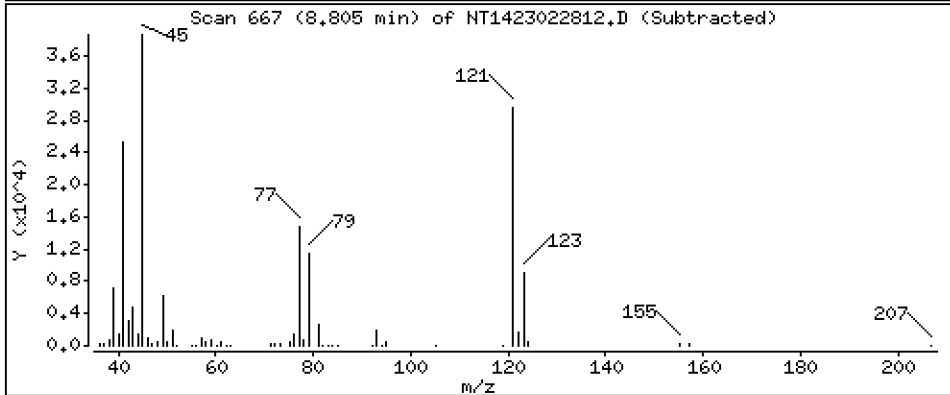
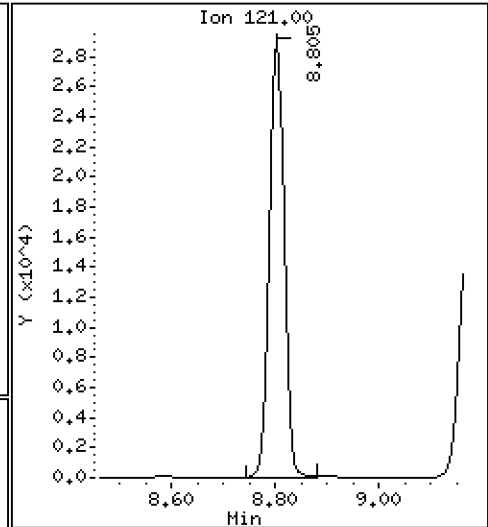
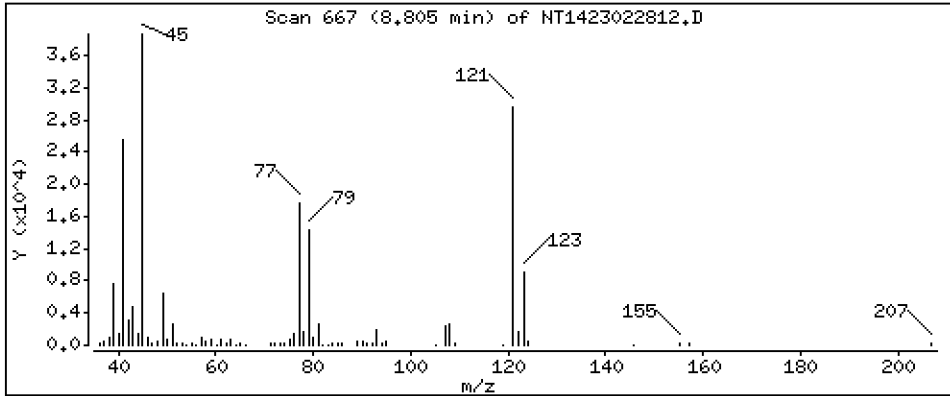
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 5,510 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

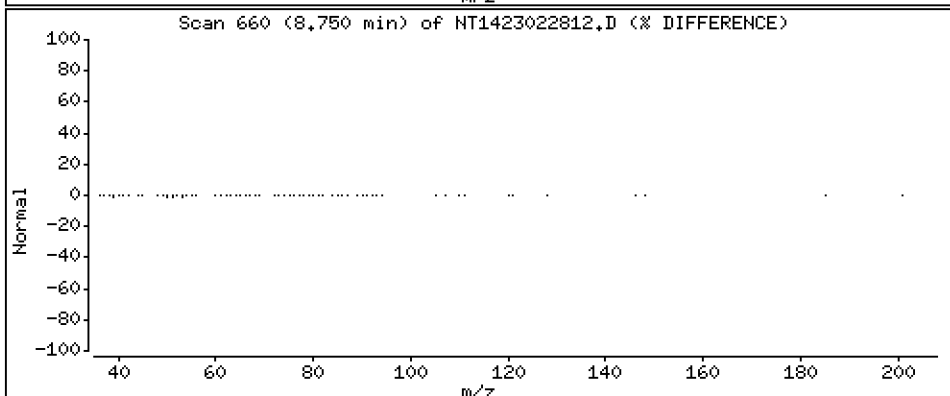
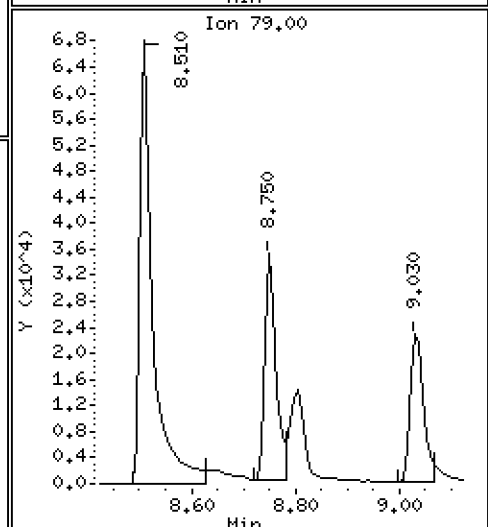
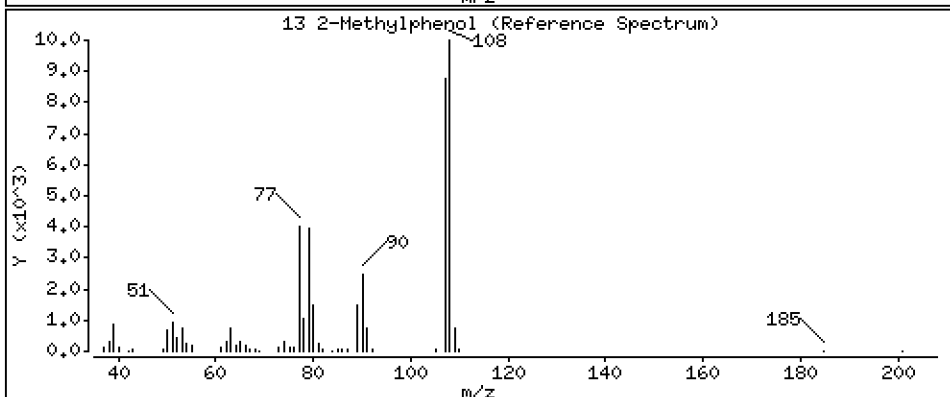
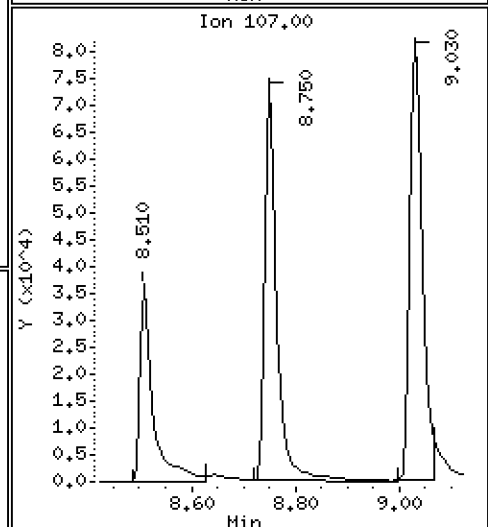
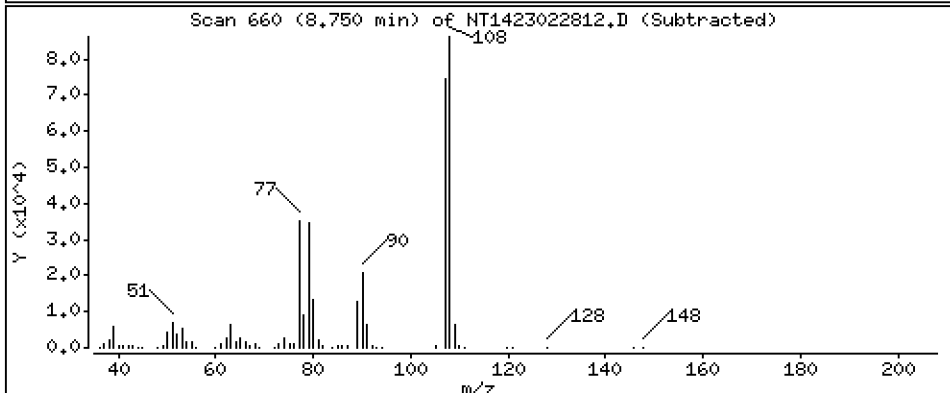
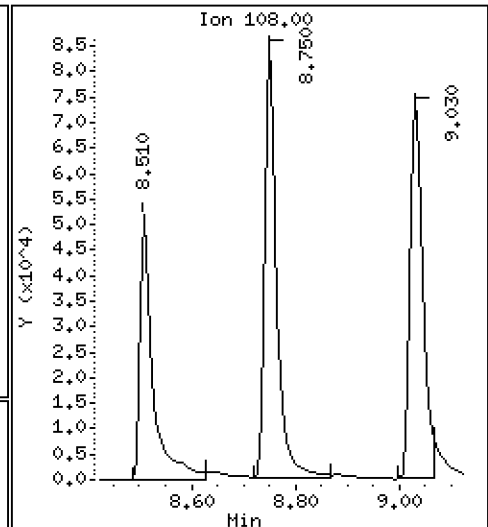
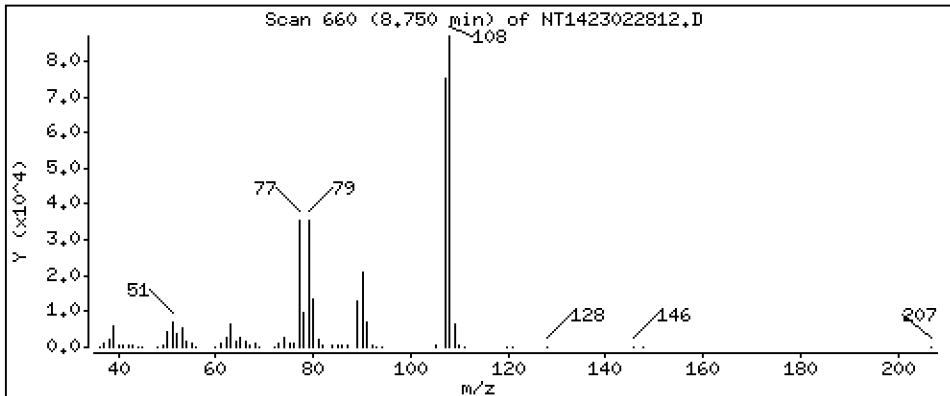
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.407 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

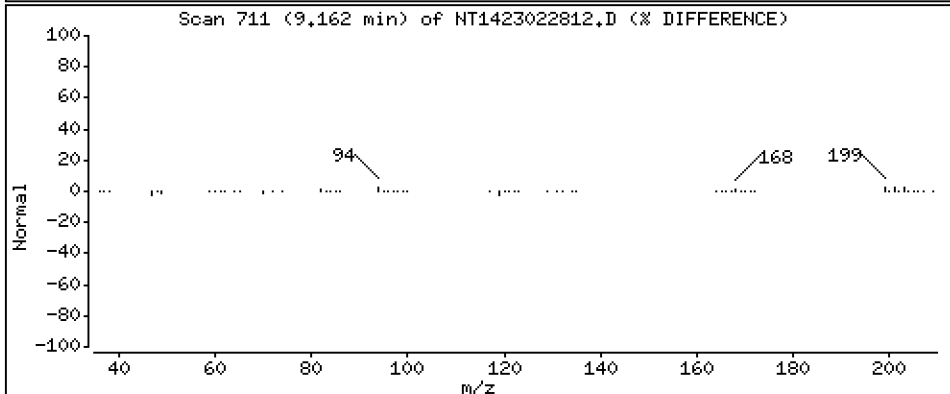
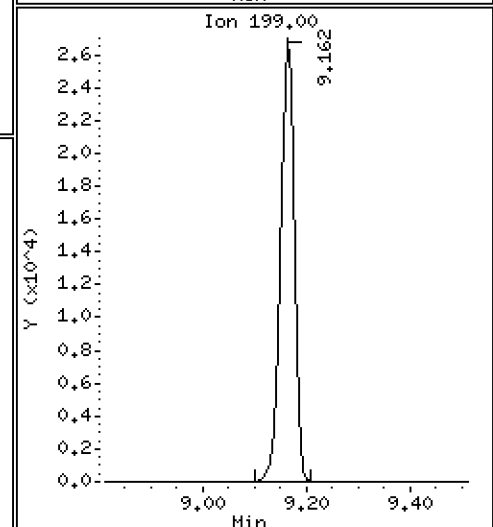
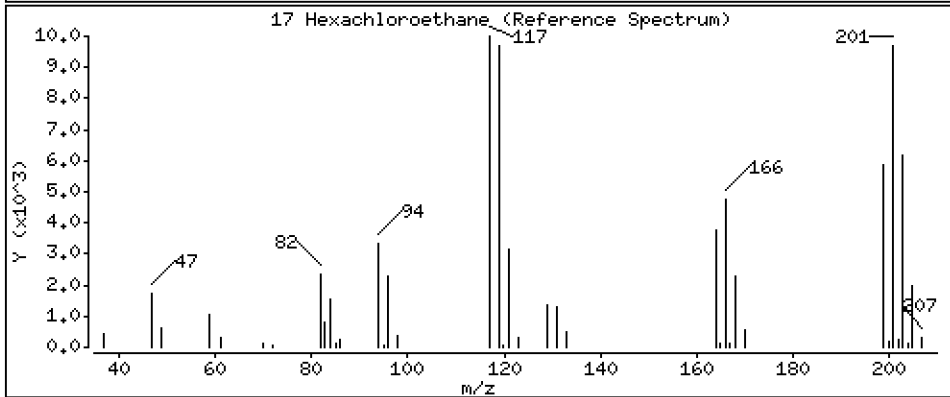
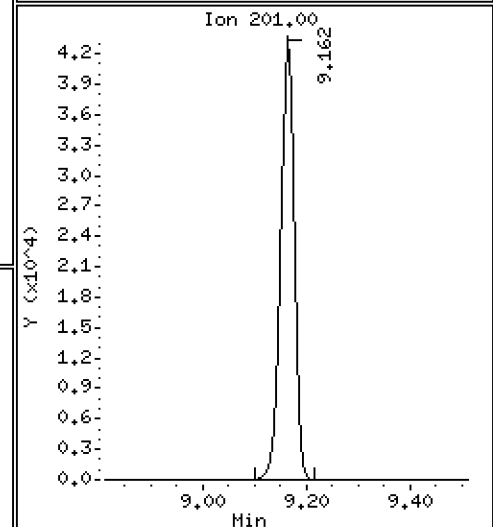
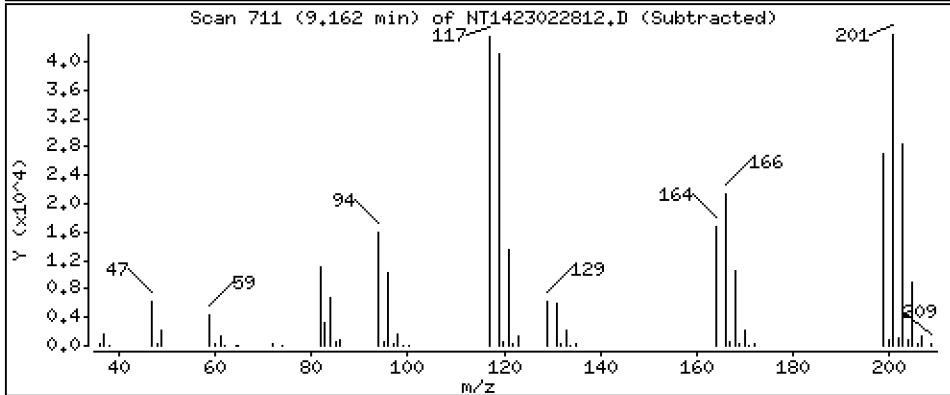
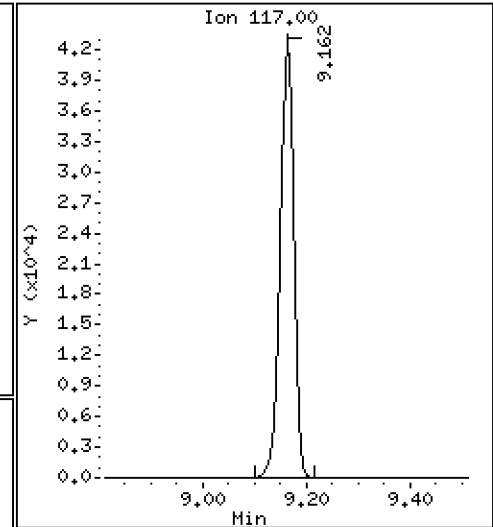
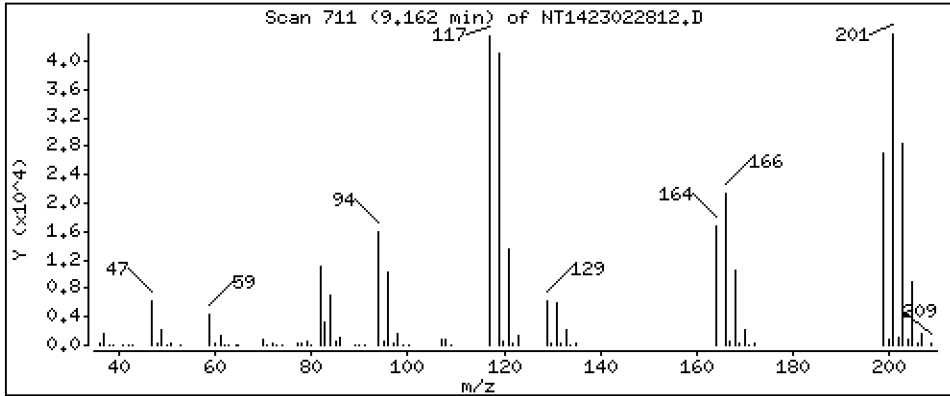
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 5.089 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

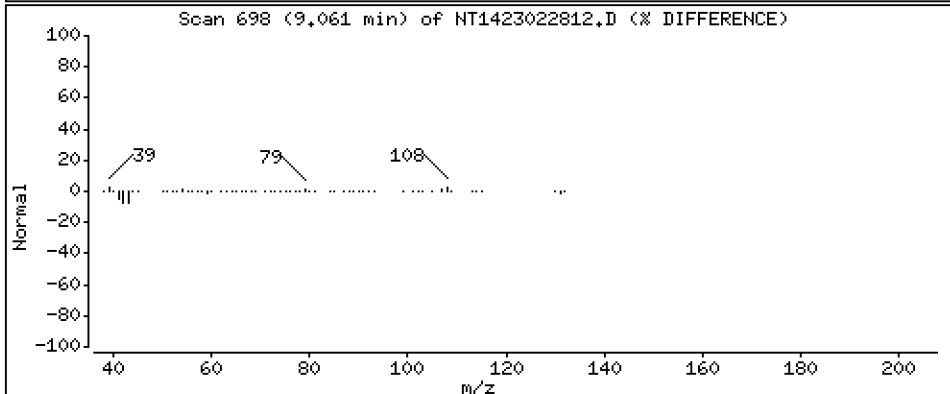
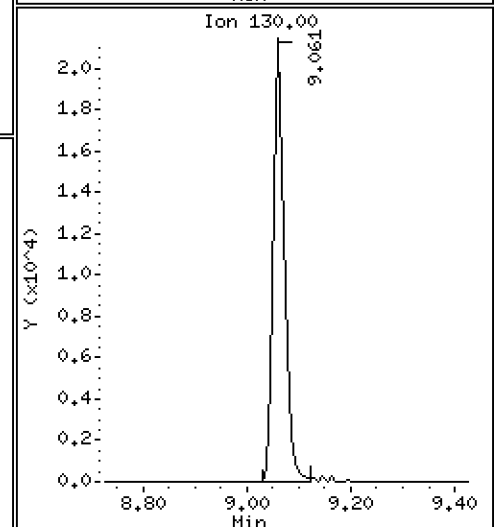
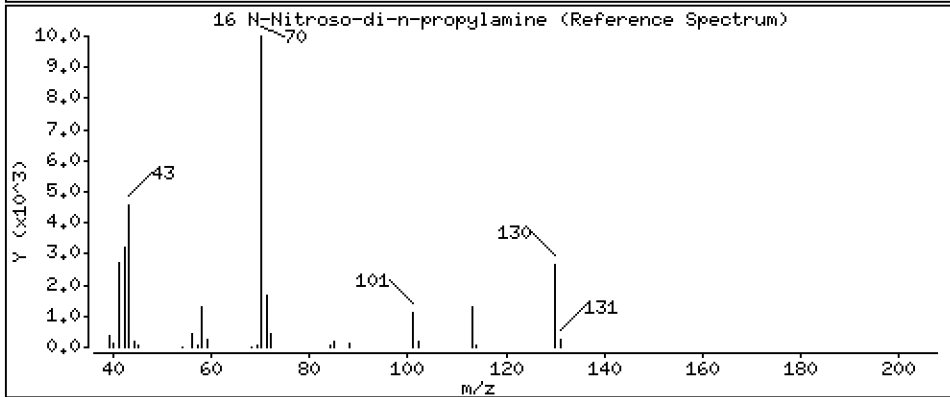
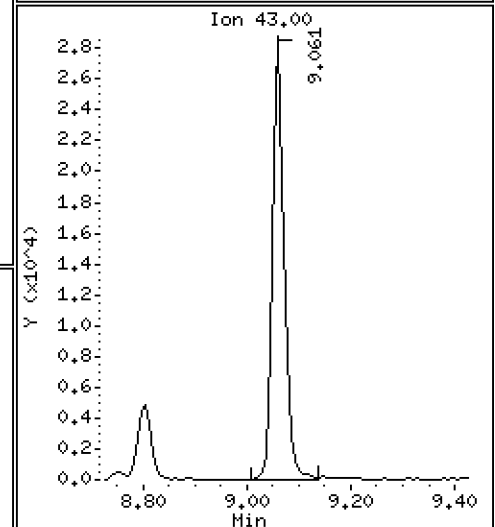
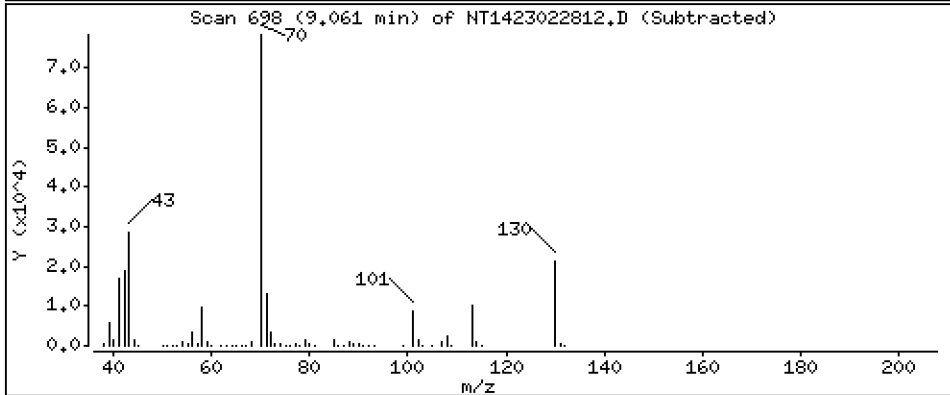
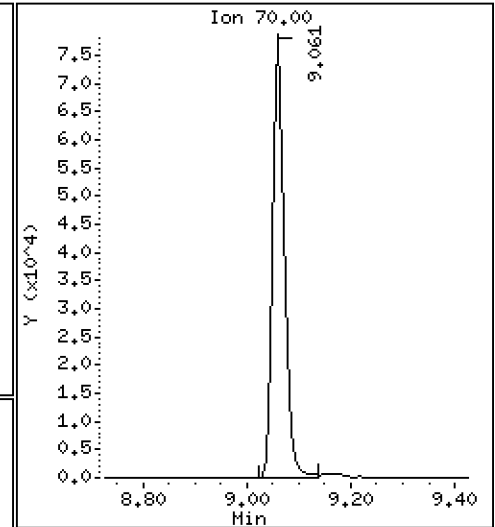
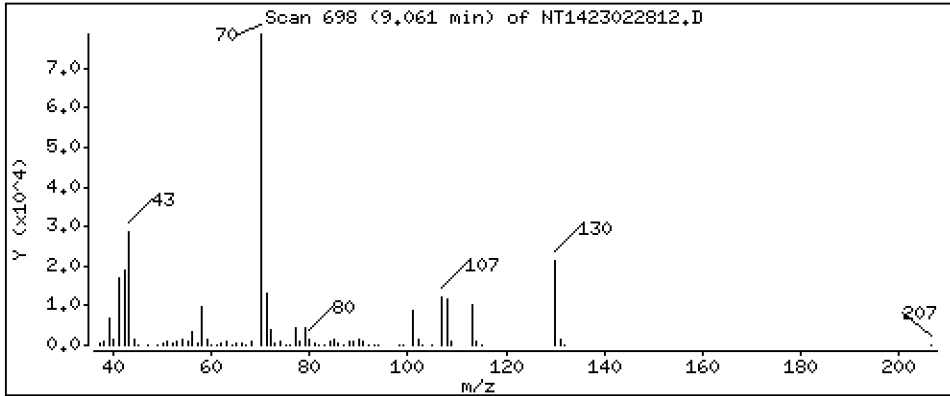
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,138 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

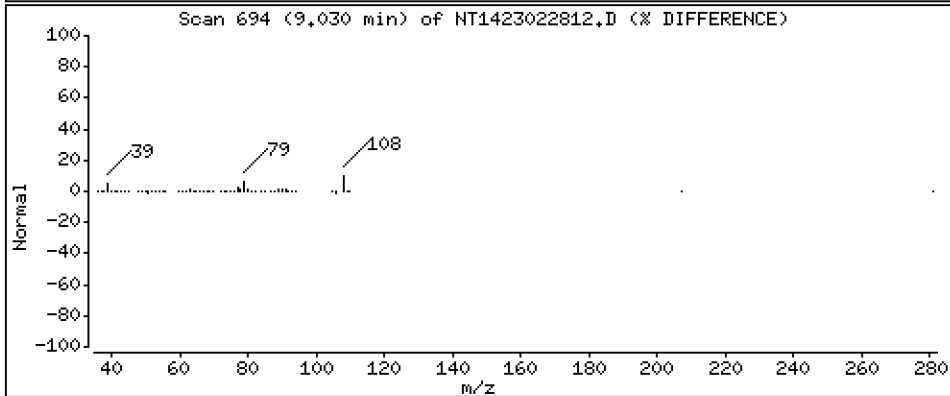
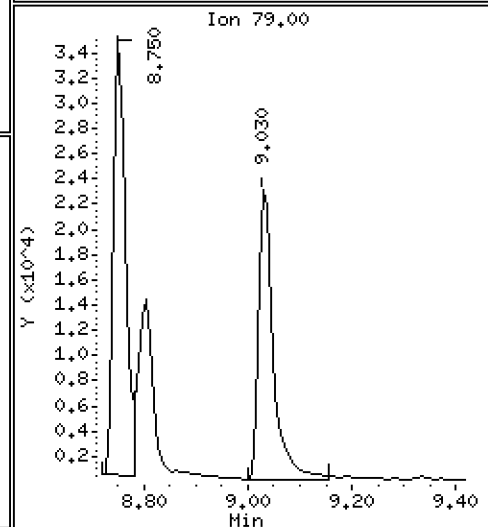
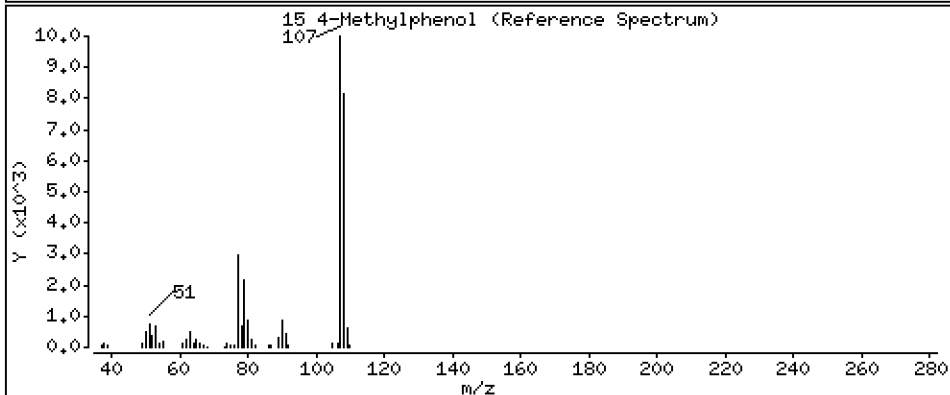
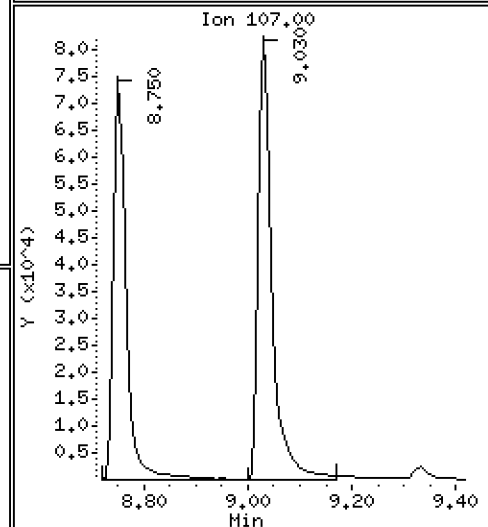
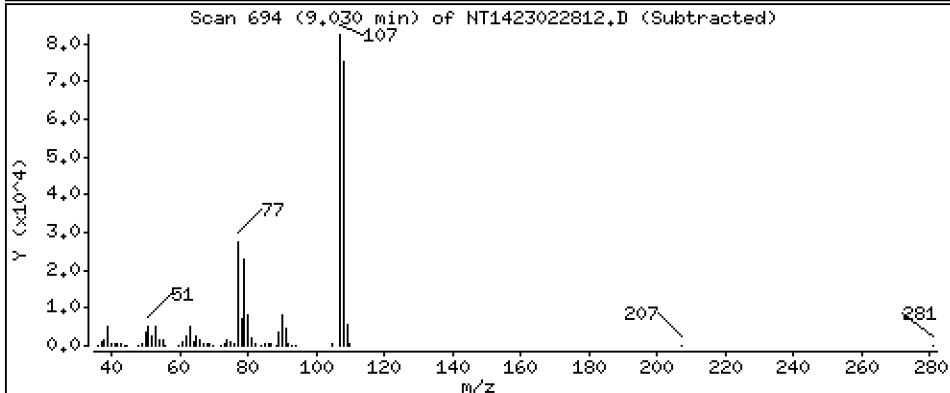
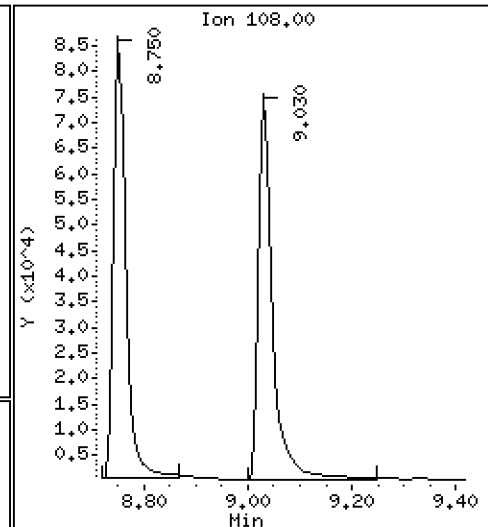
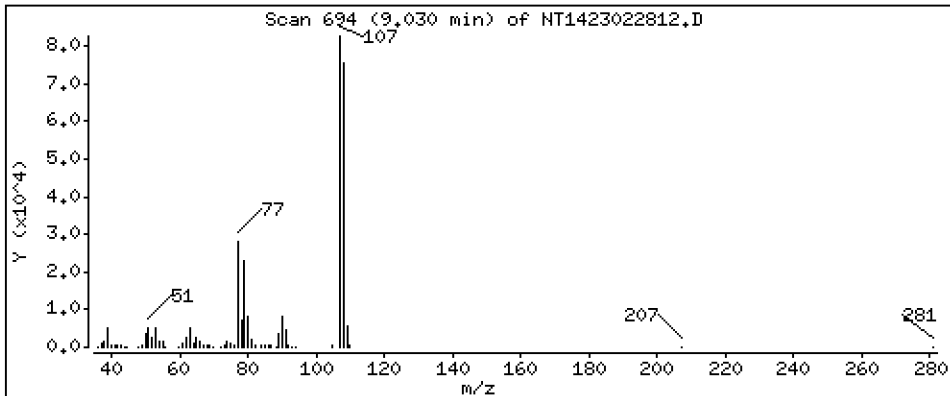
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 4.218 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

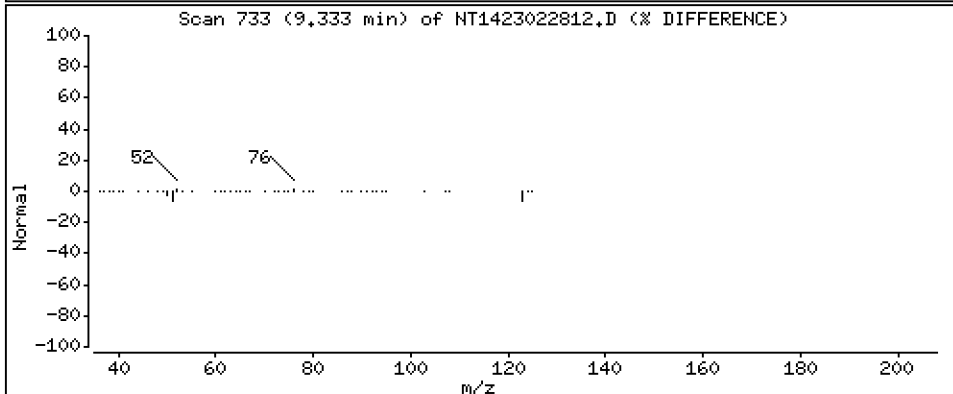
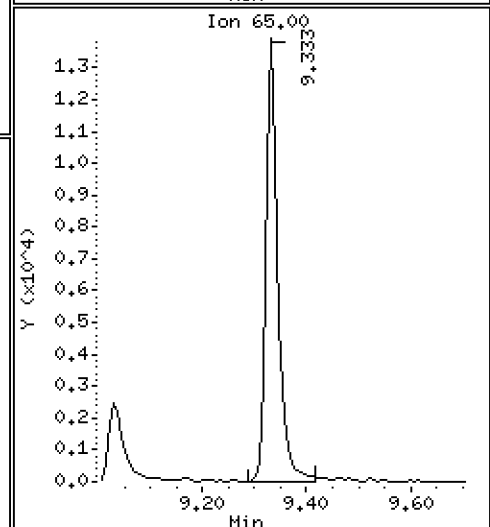
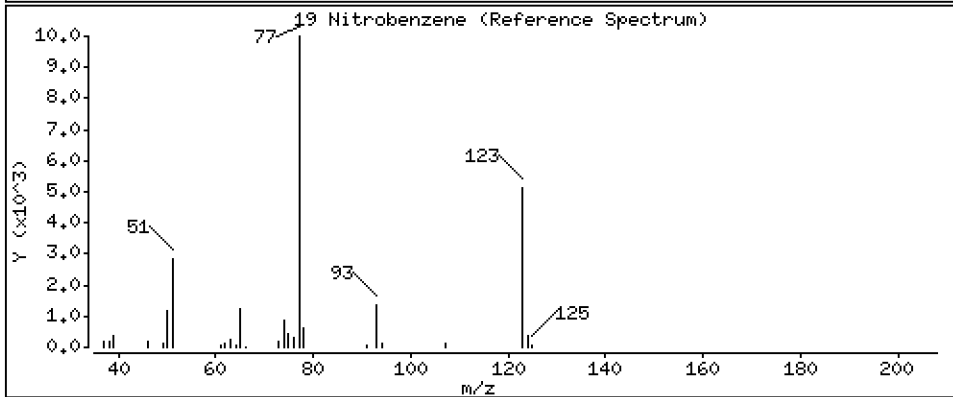
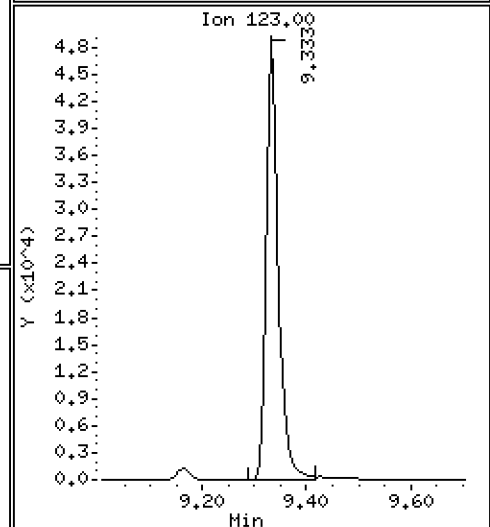
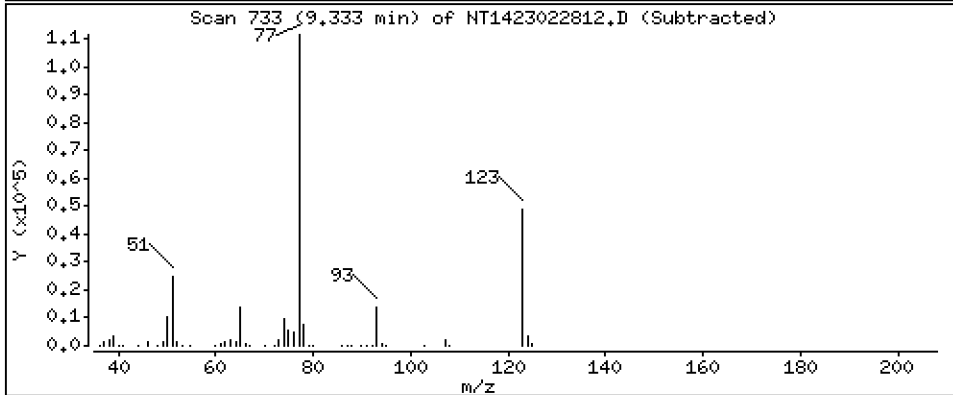
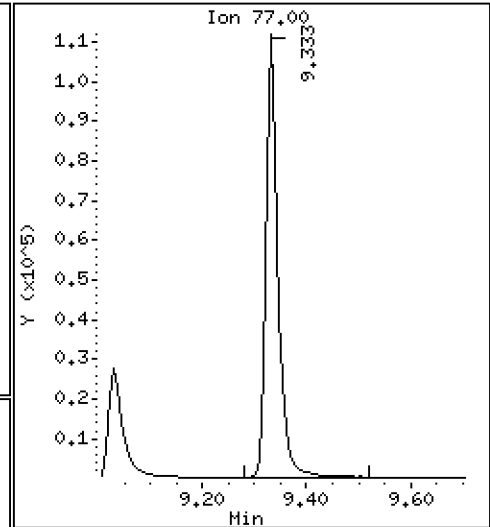
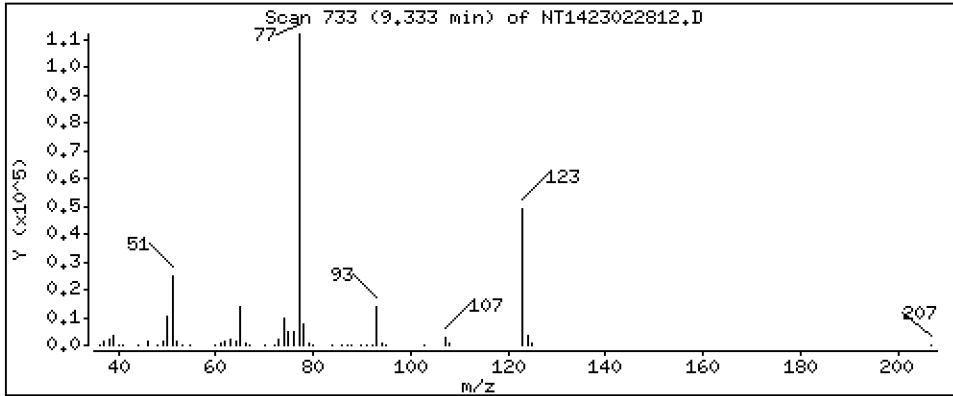
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 5,059 ug/mL

19 Nitrobenzene



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

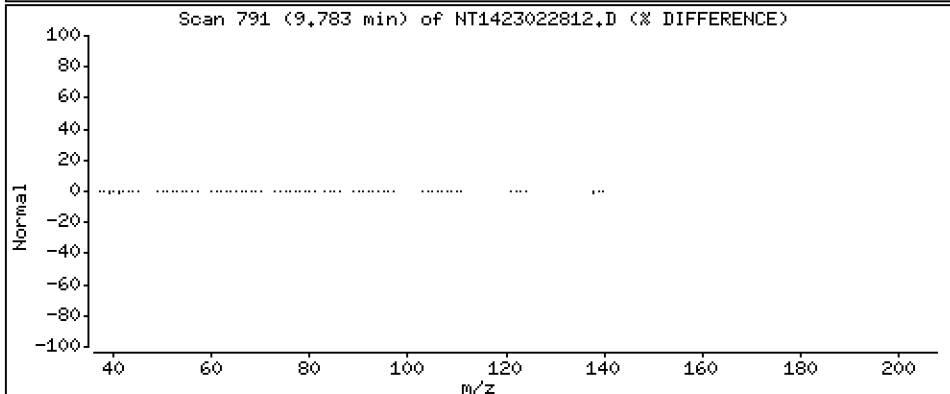
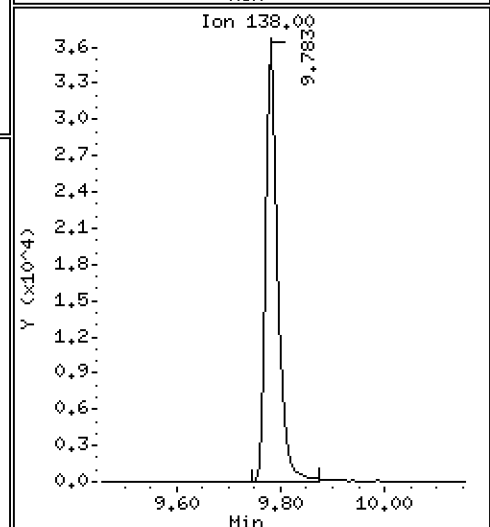
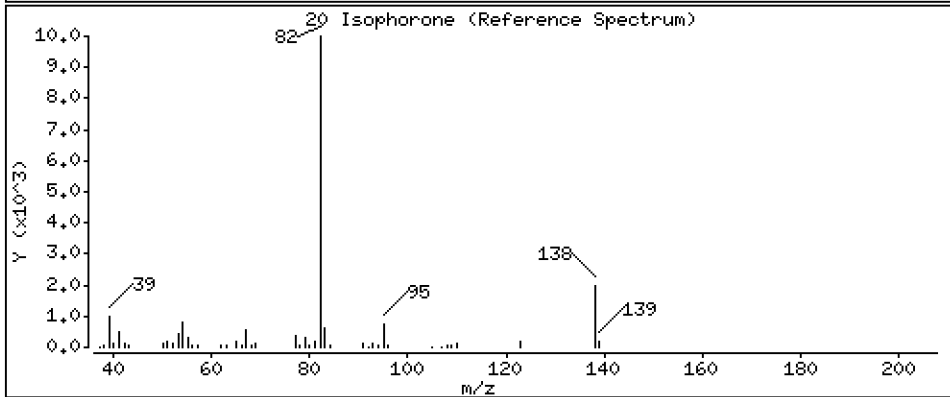
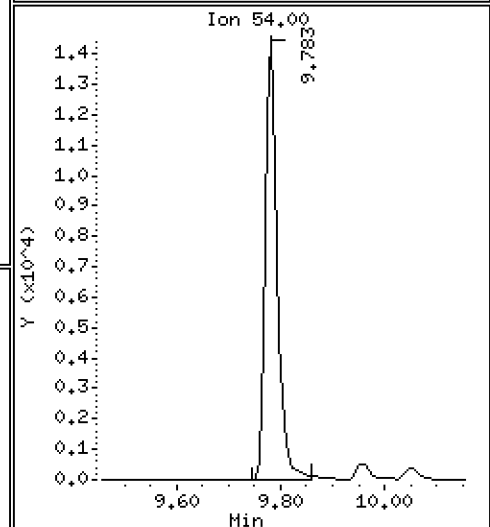
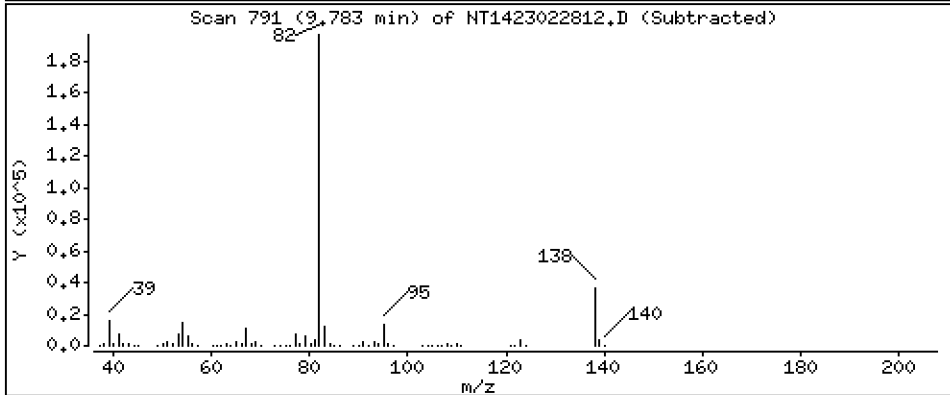
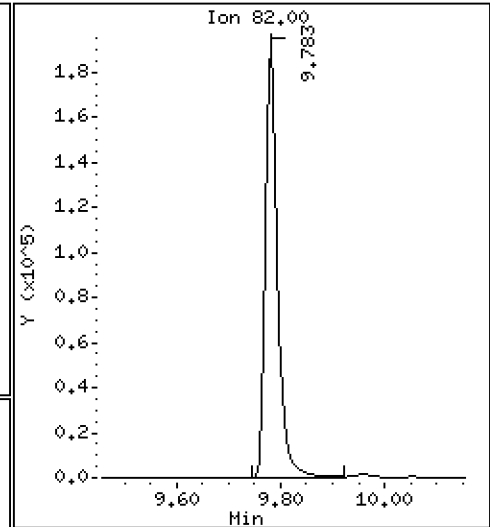
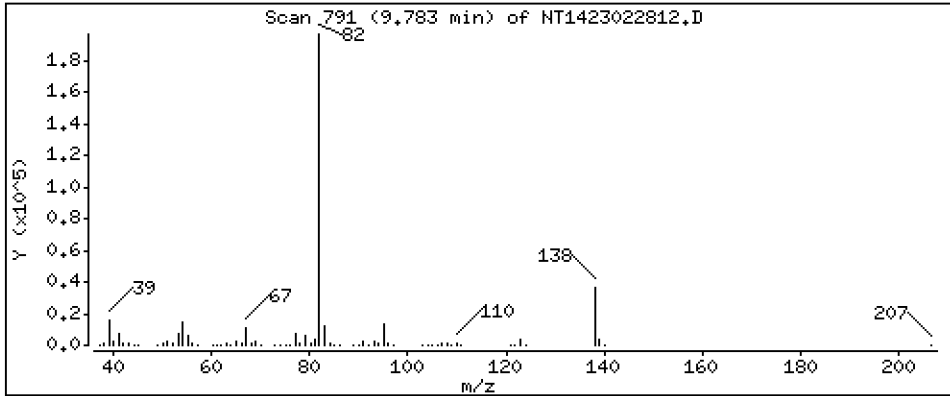
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 6.410 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

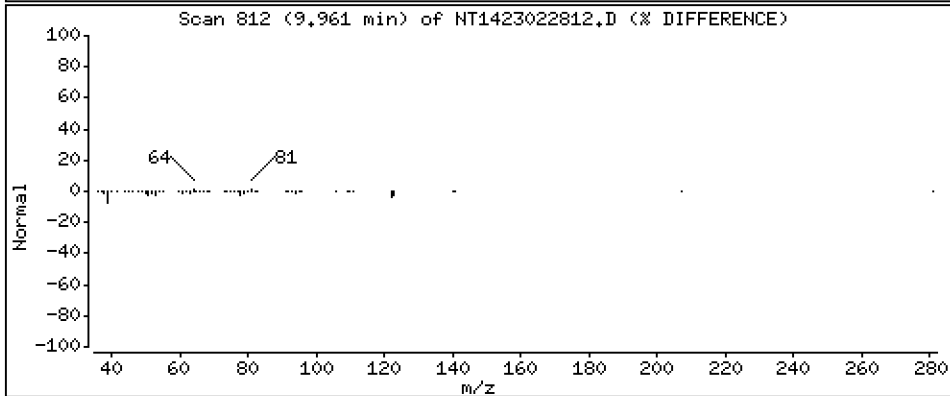
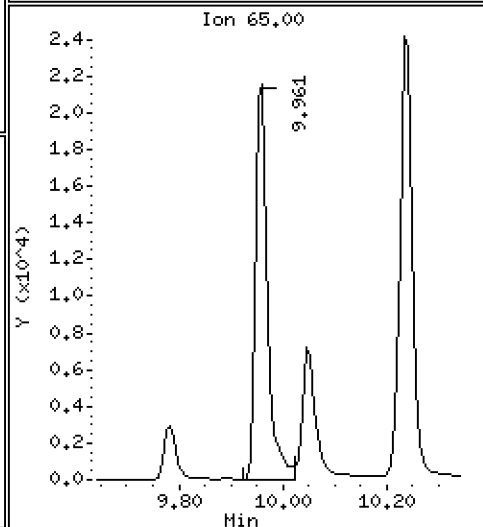
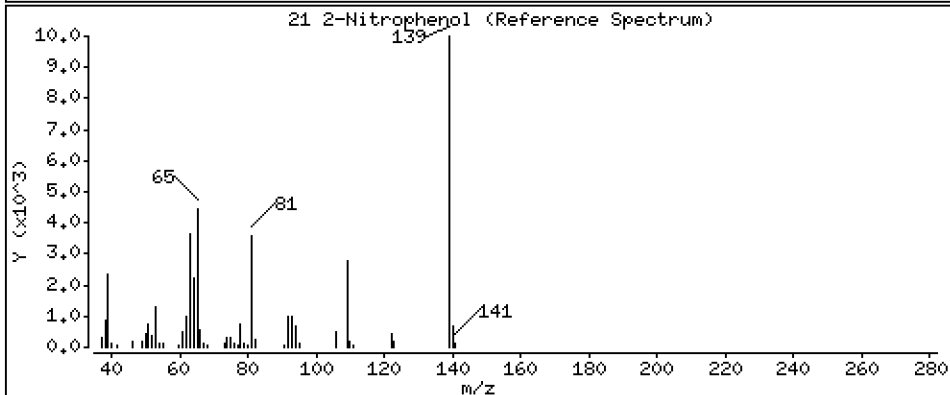
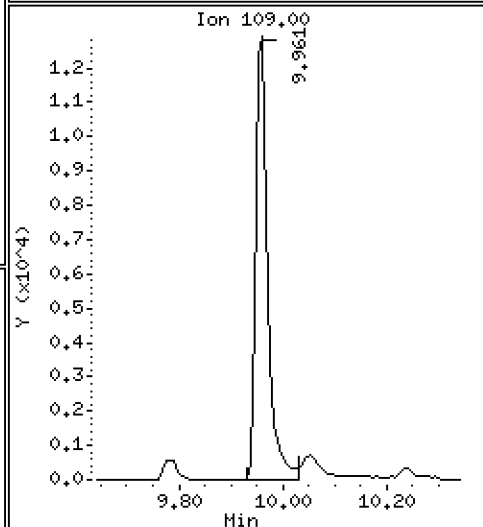
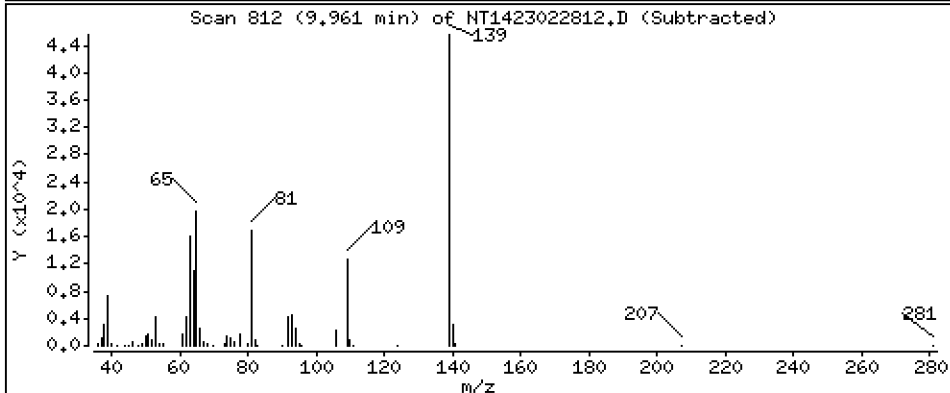
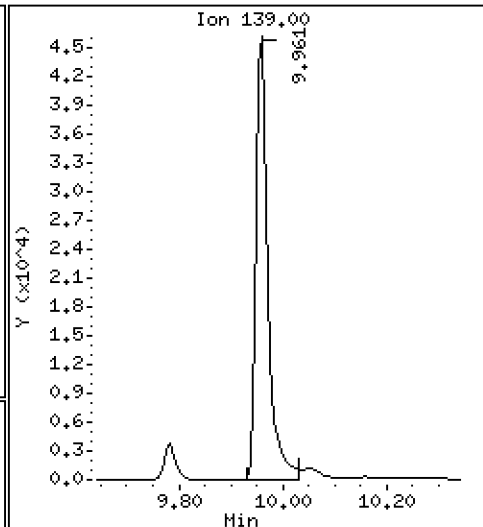
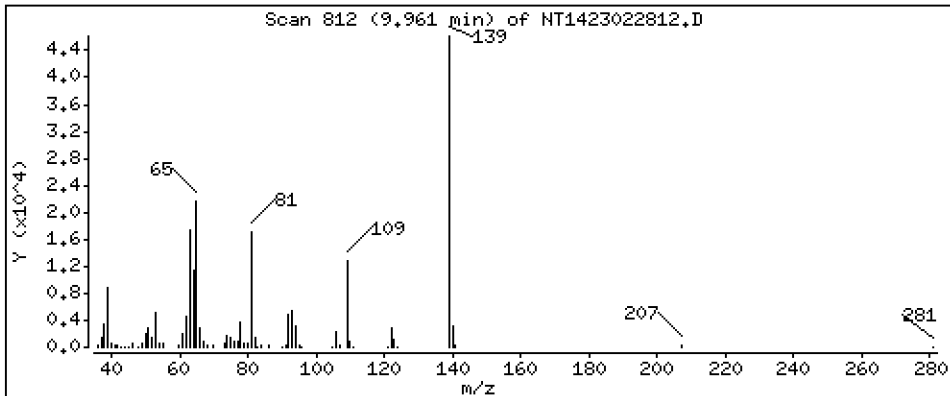
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,126 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

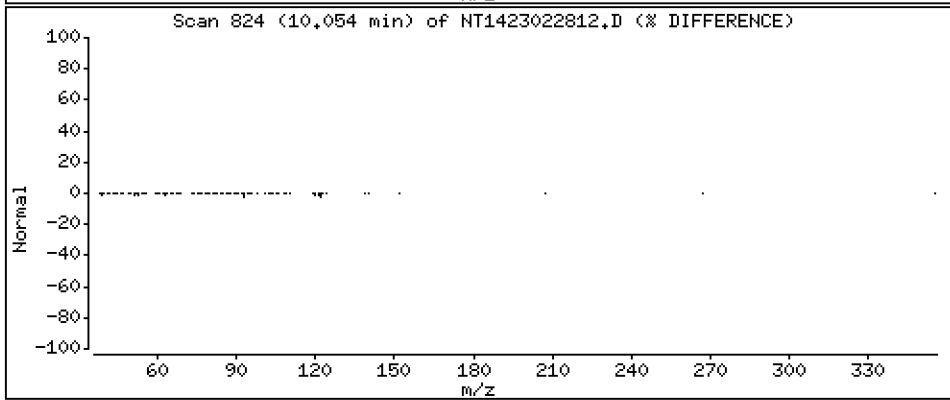
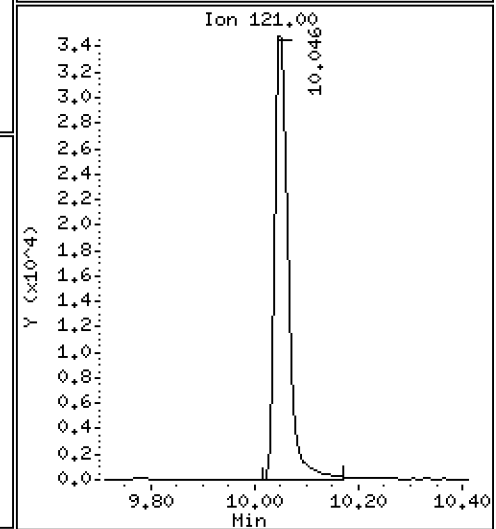
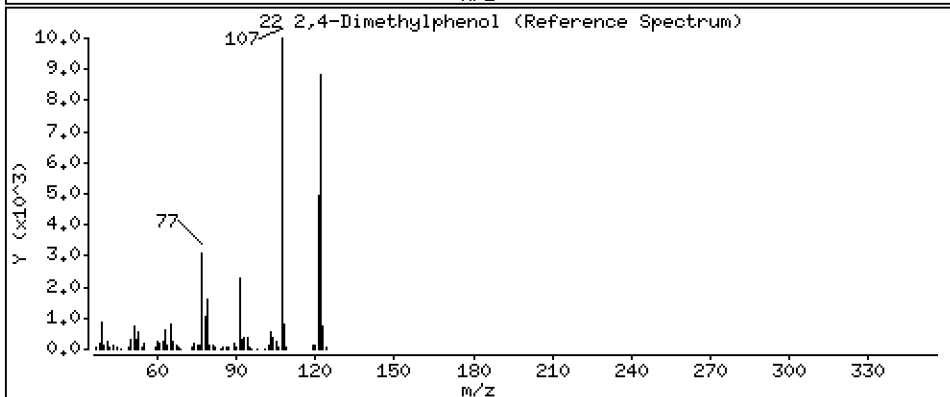
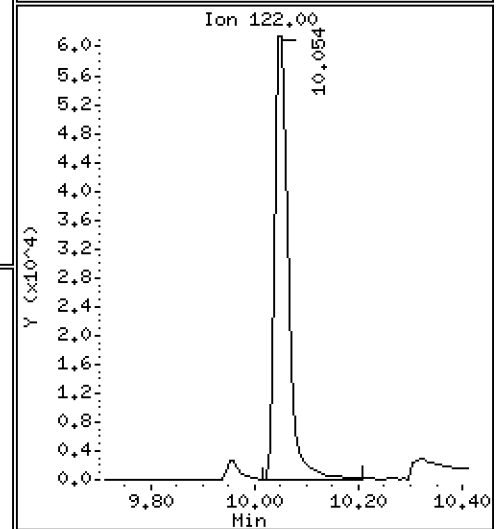
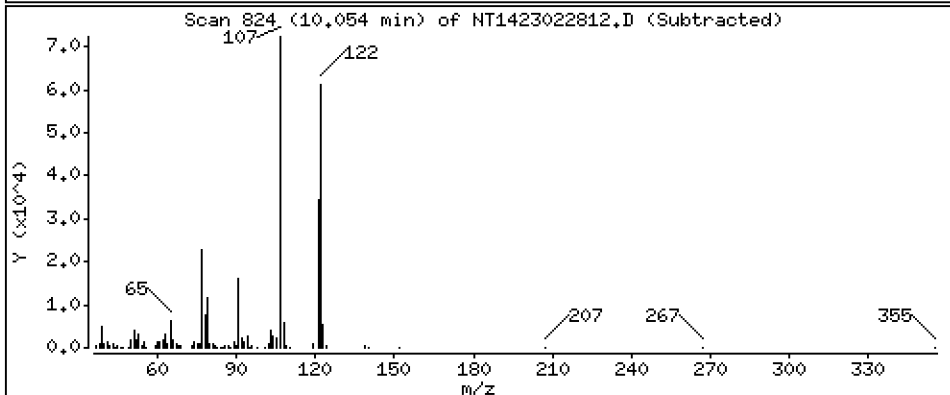
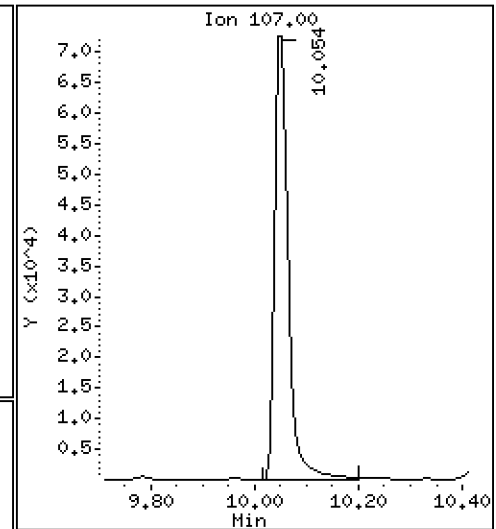
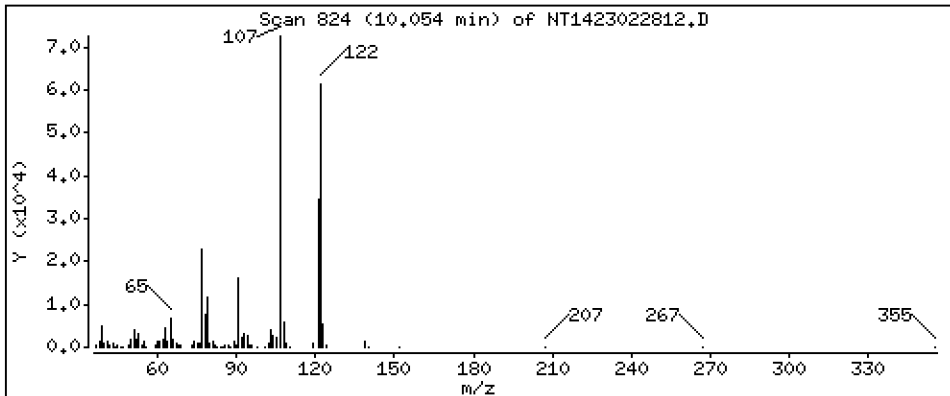
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 3,890 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

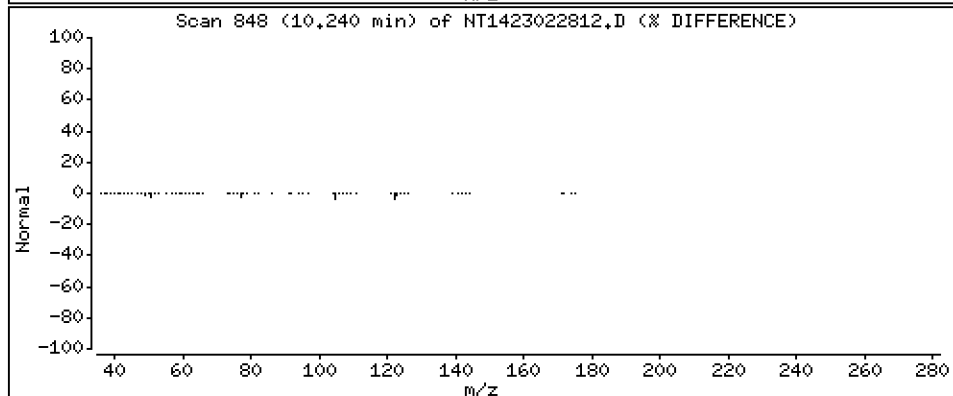
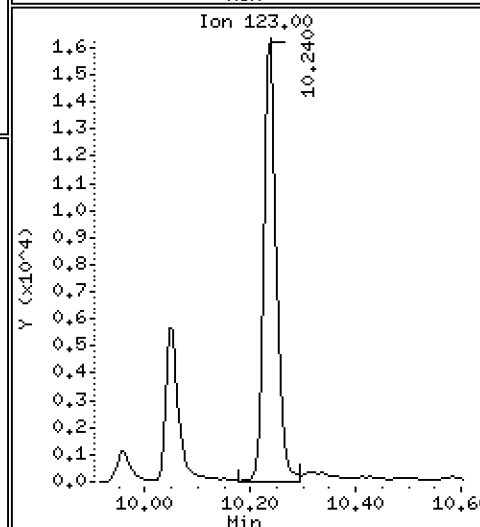
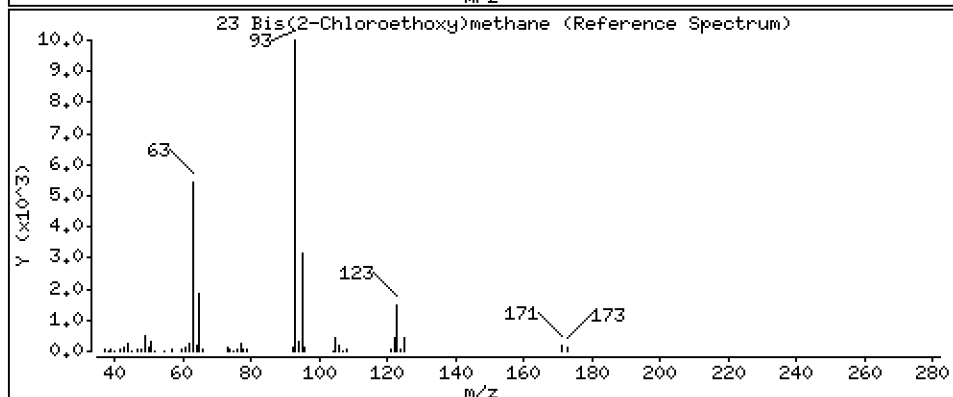
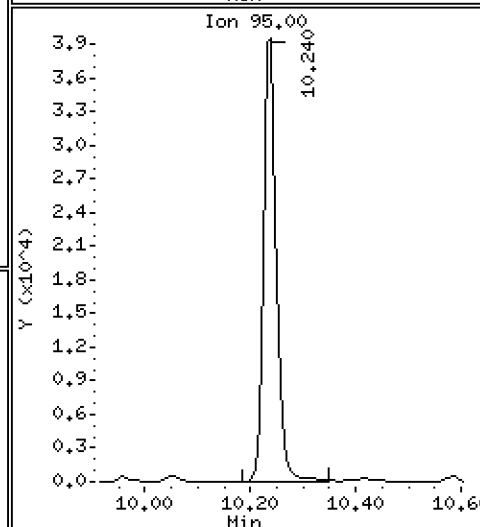
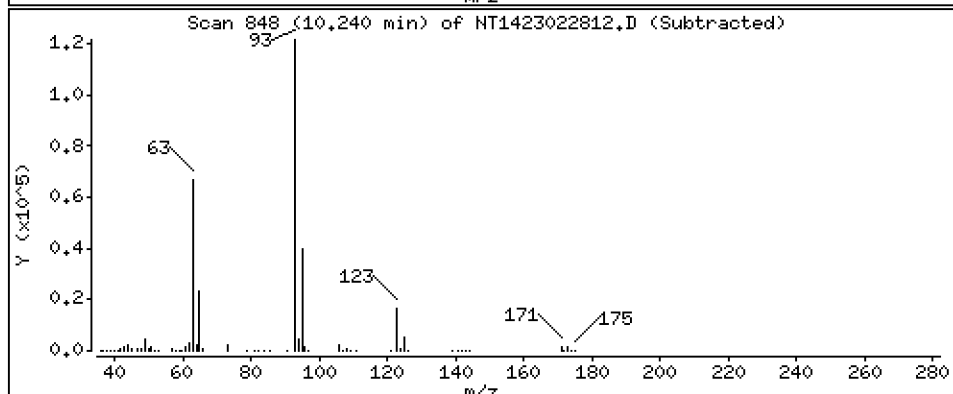
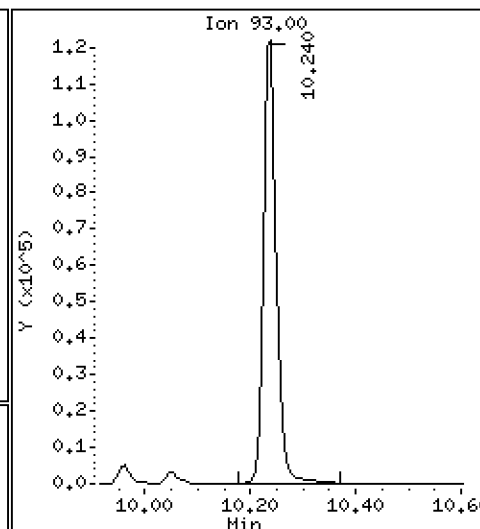
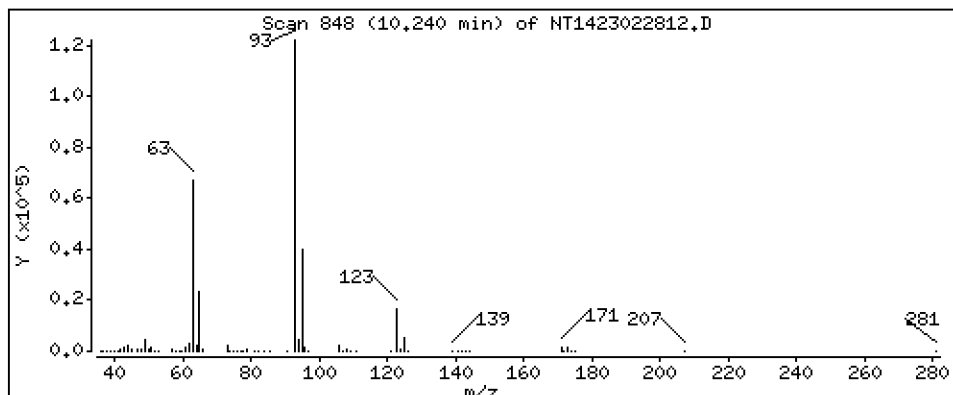
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 5.764 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

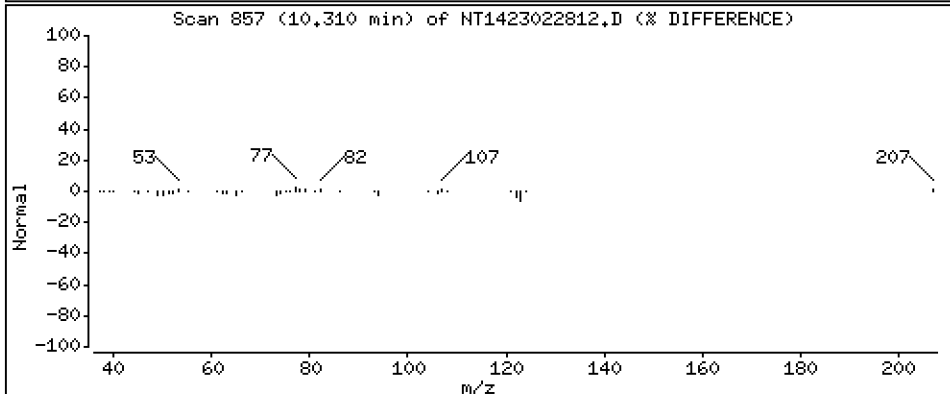
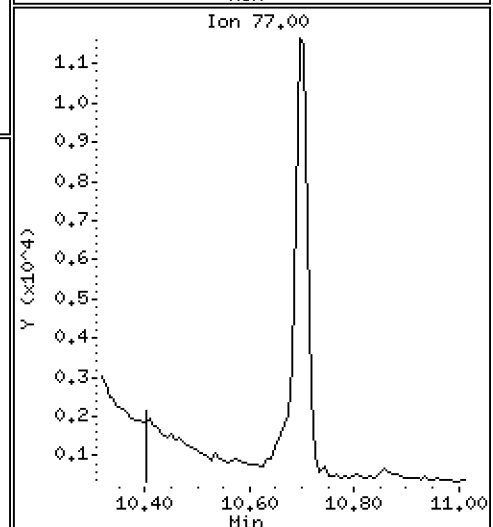
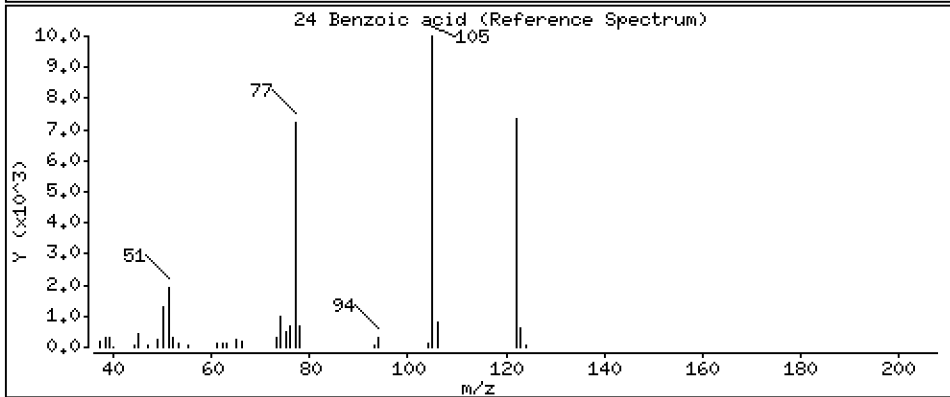
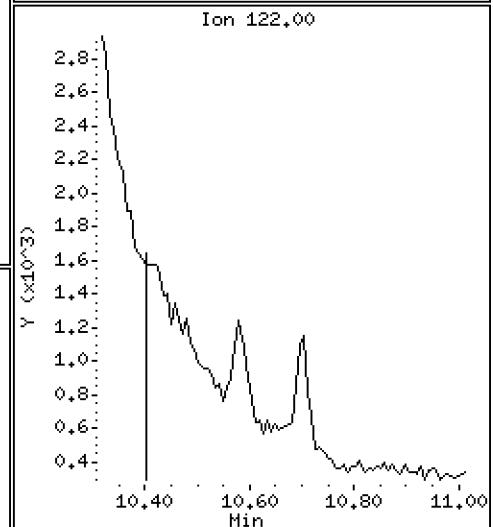
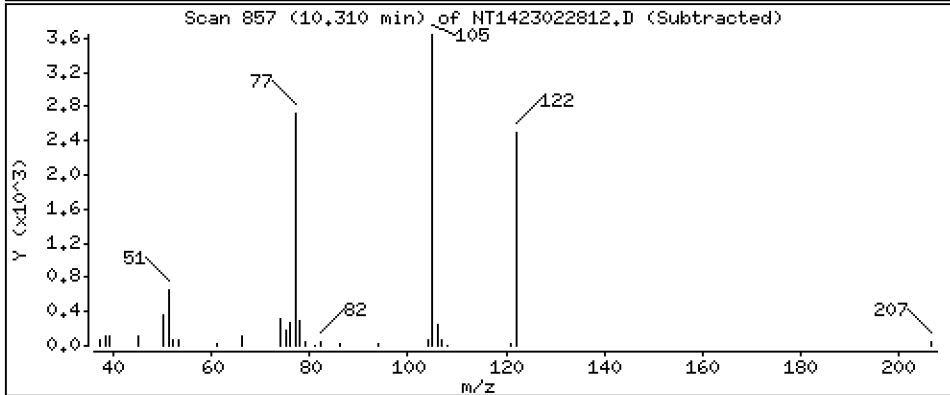
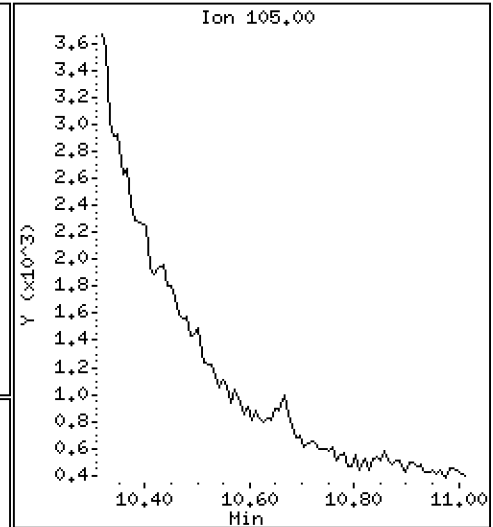
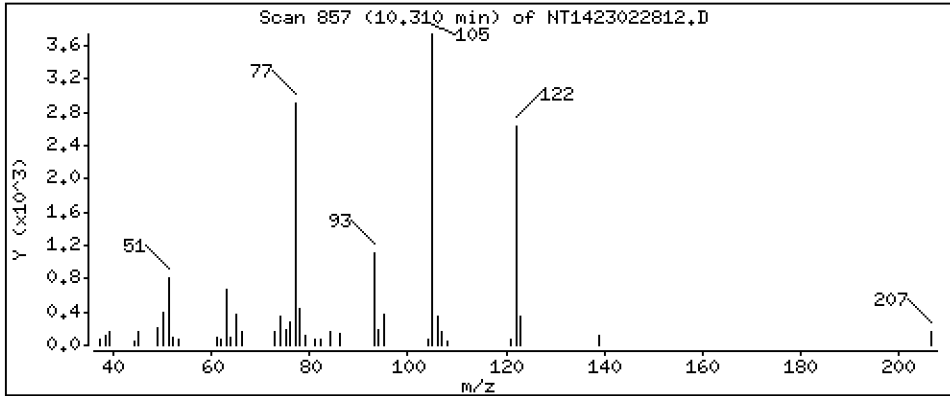
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 4.071 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

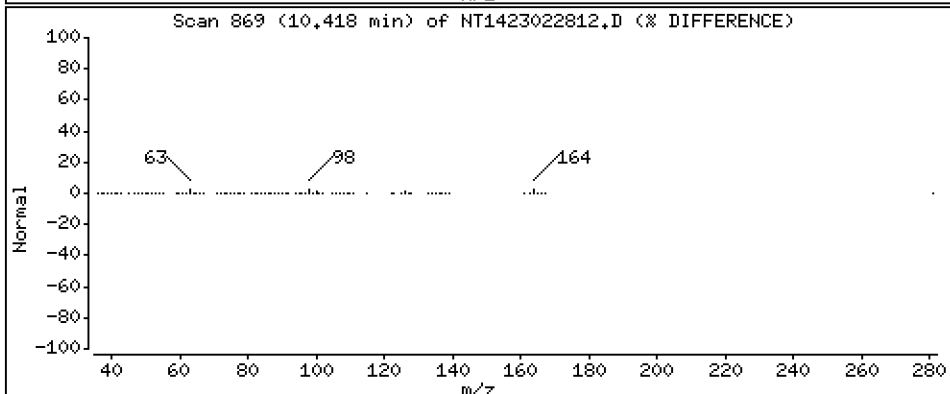
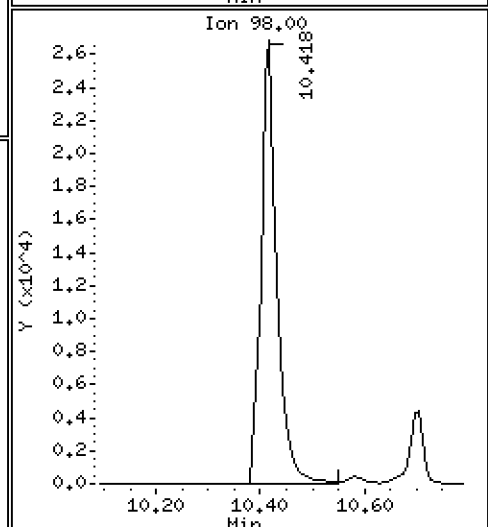
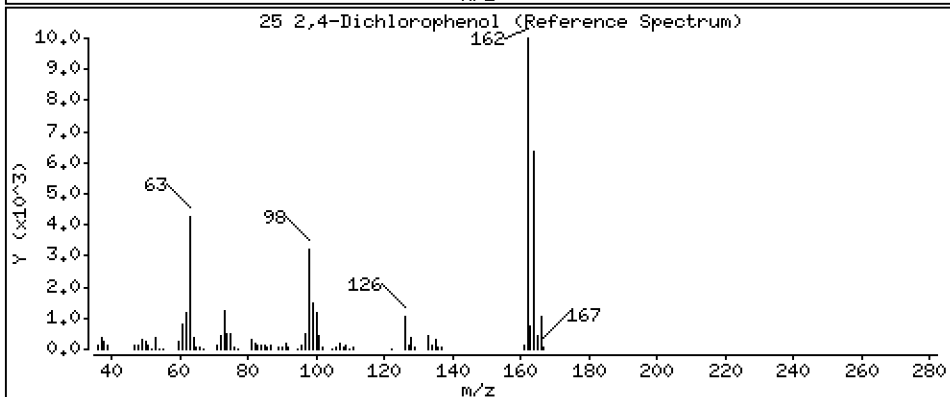
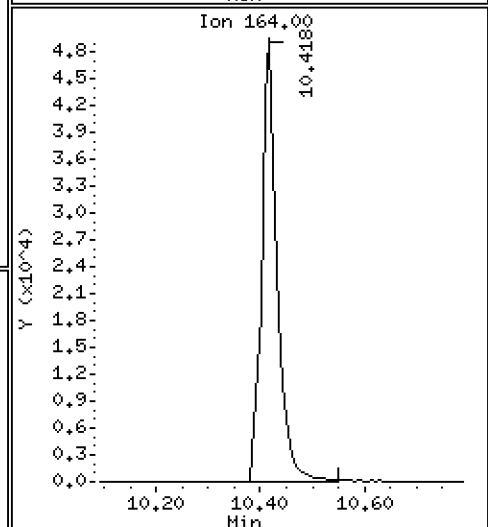
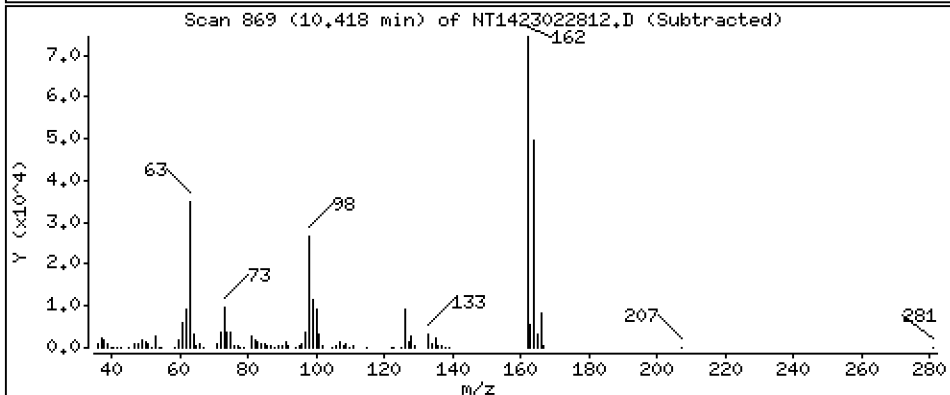
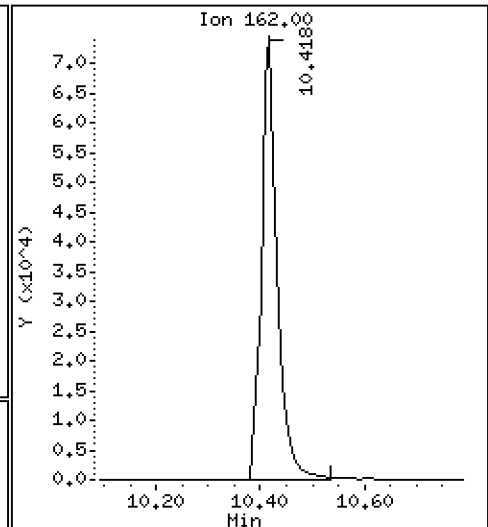
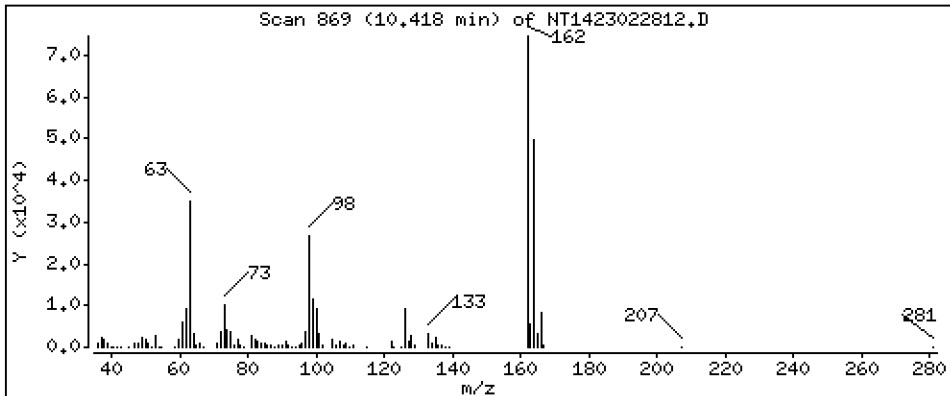
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 4,783 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

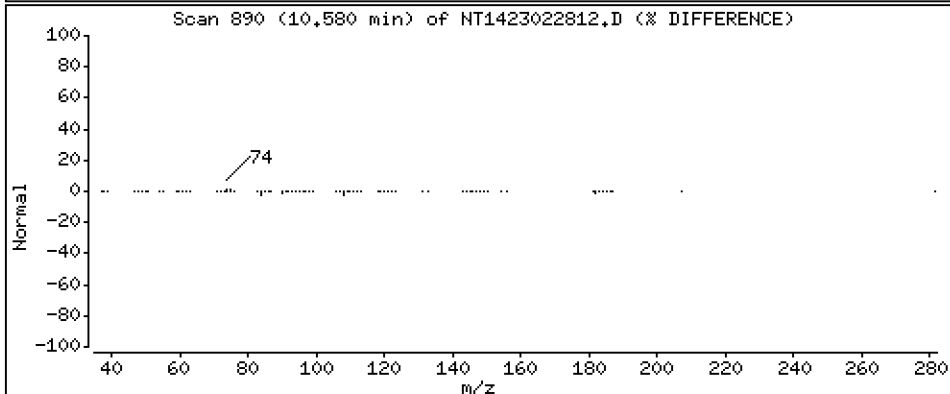
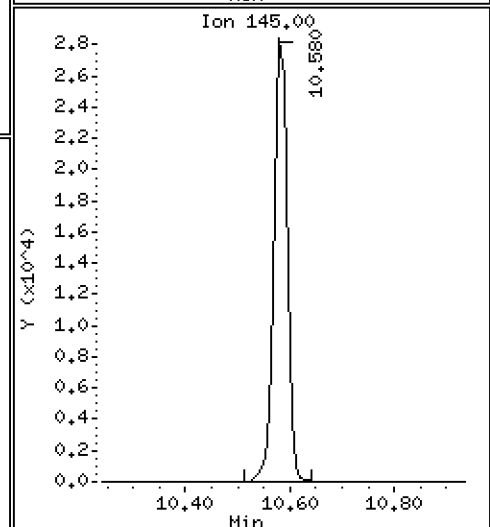
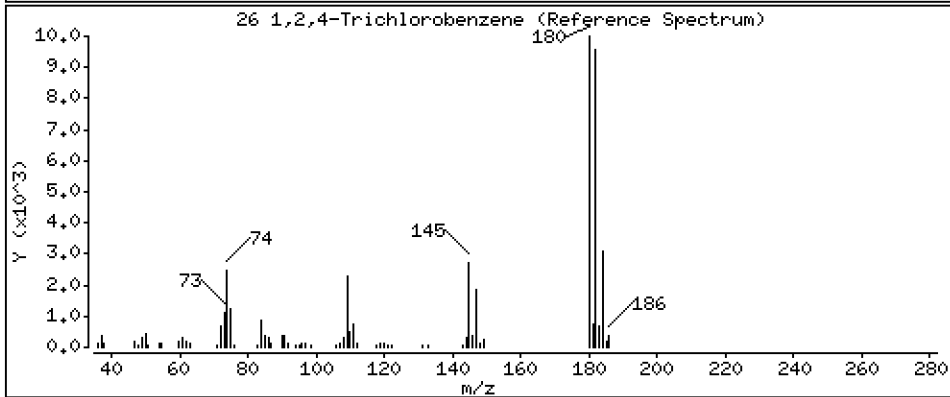
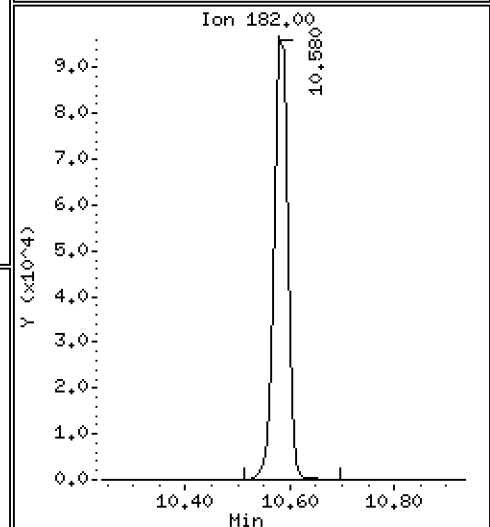
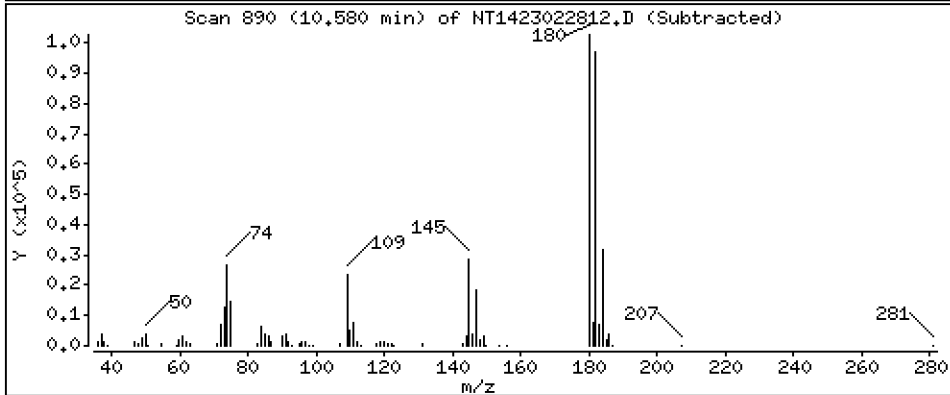
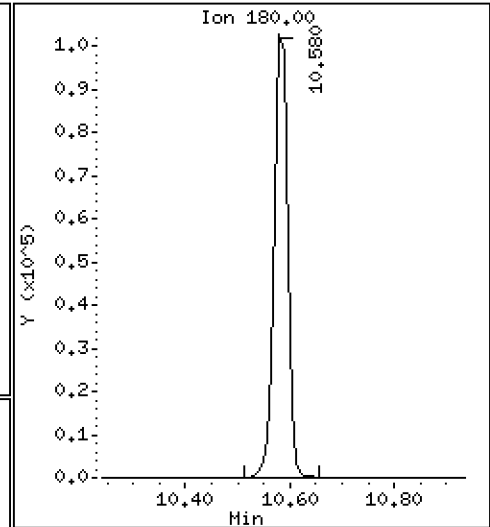
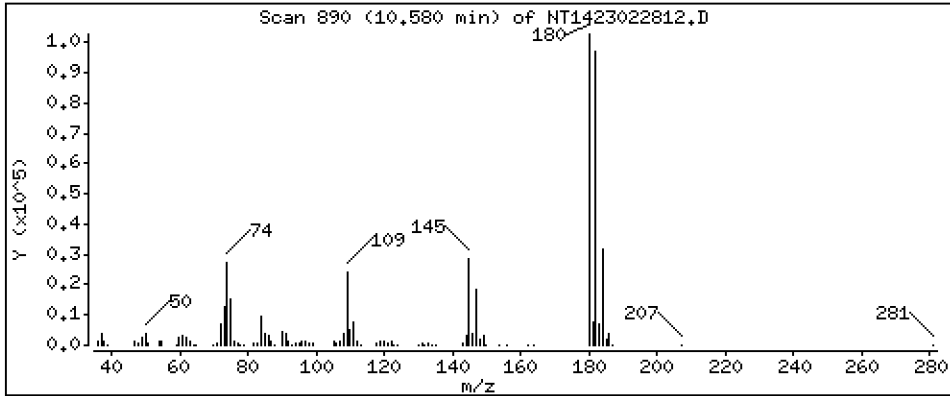
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,789 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

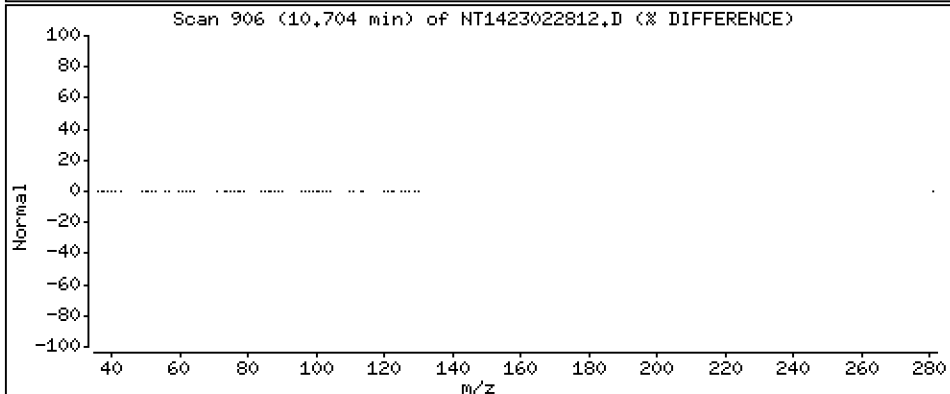
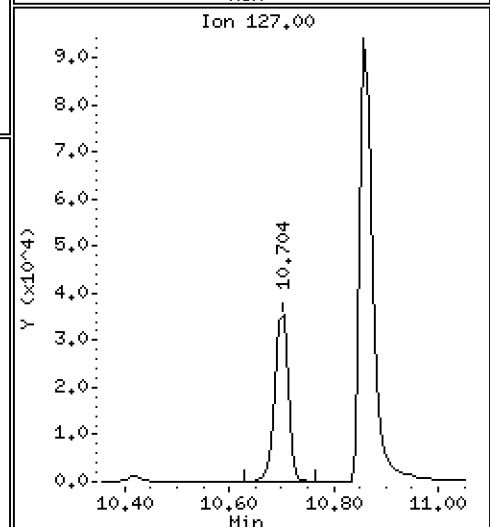
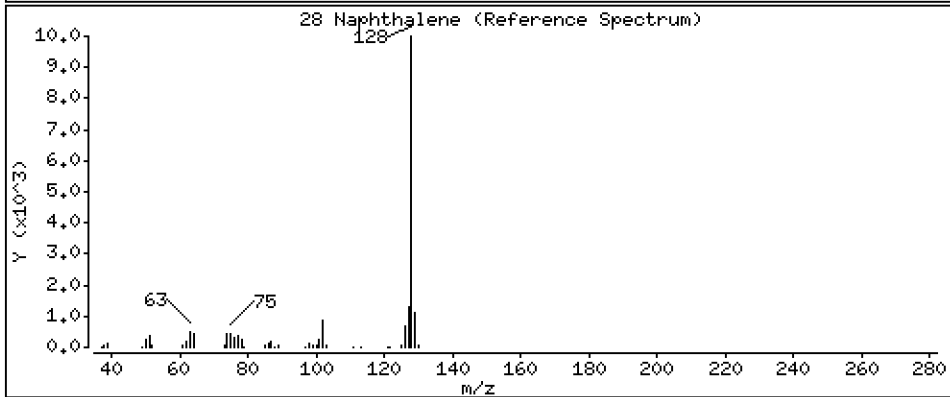
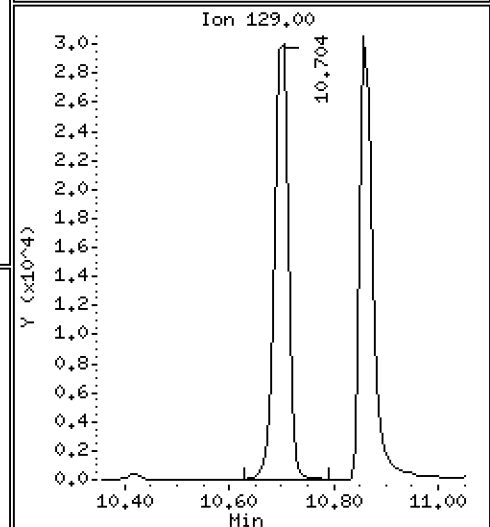
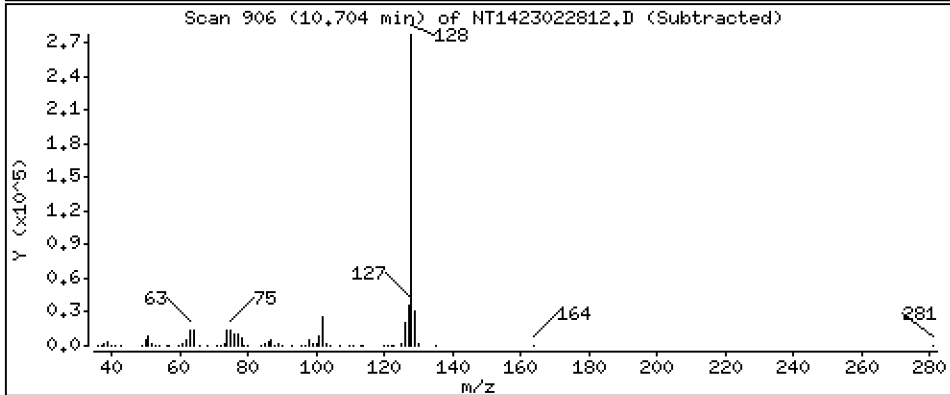
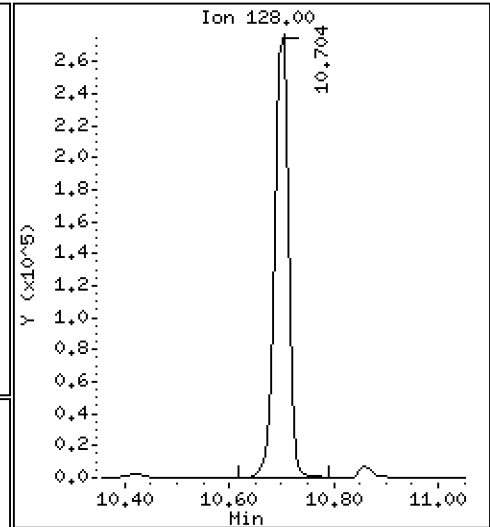
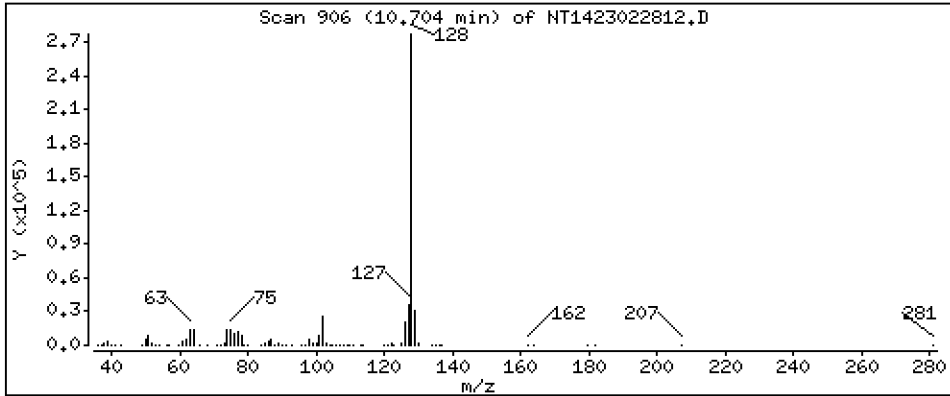
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,766 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

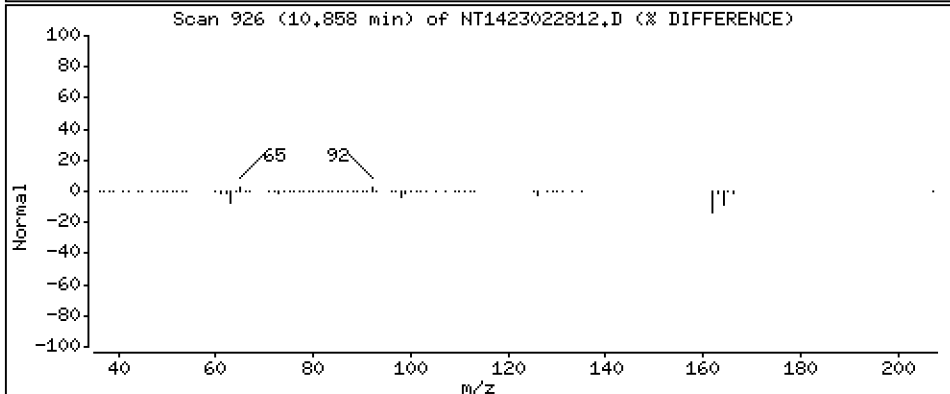
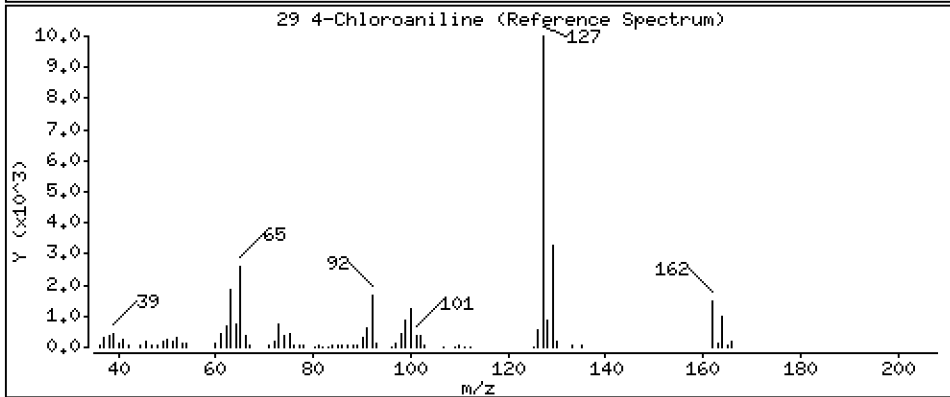
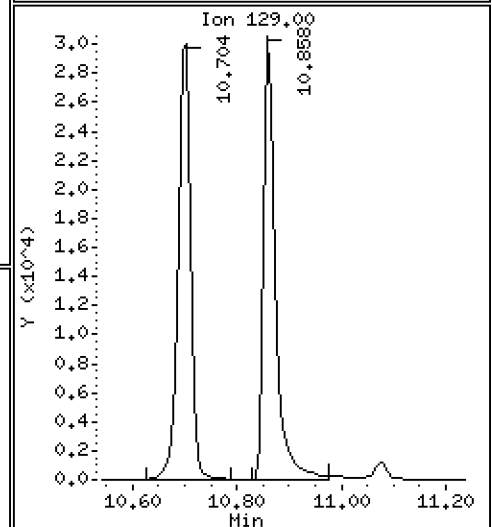
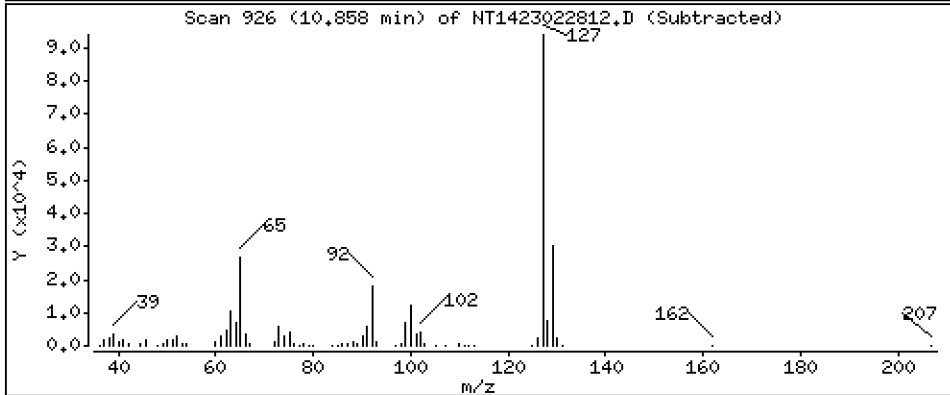
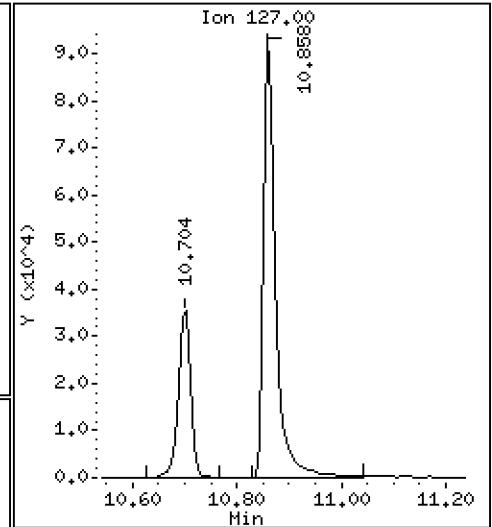
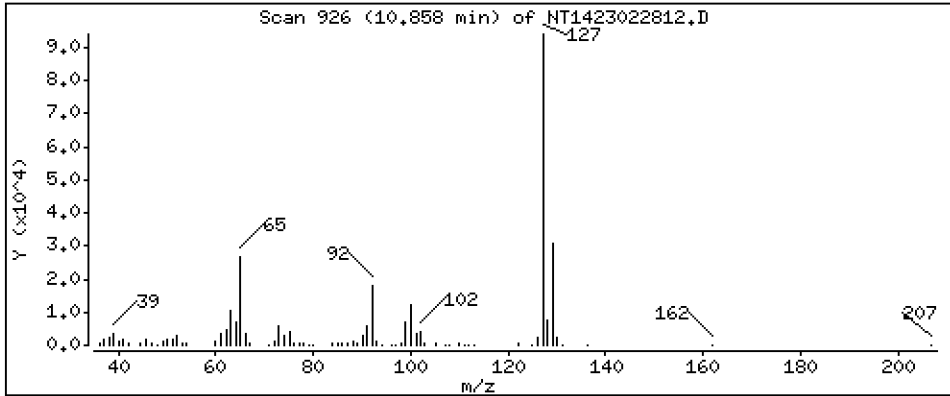
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 3,895 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

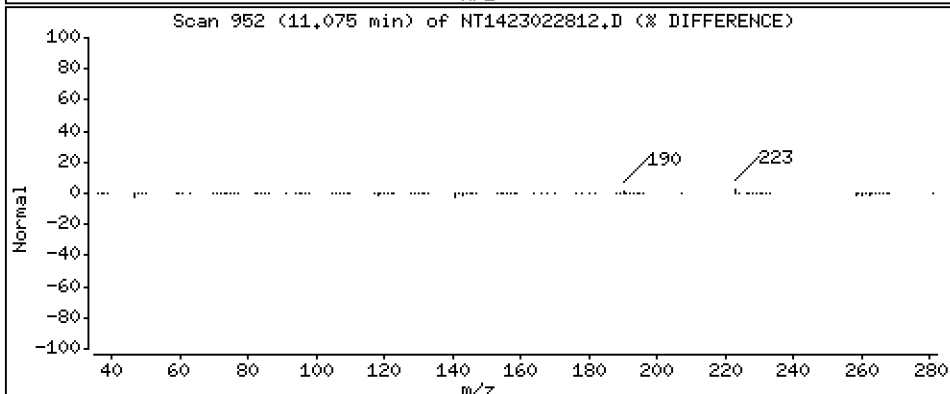
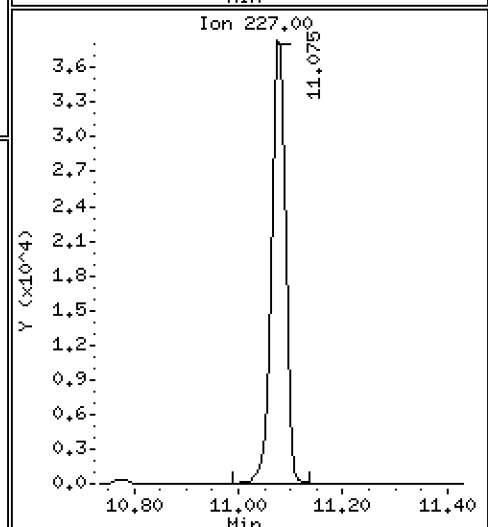
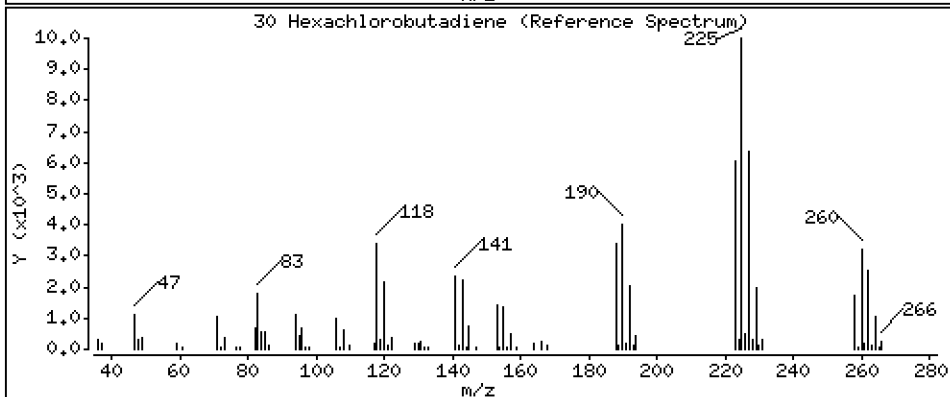
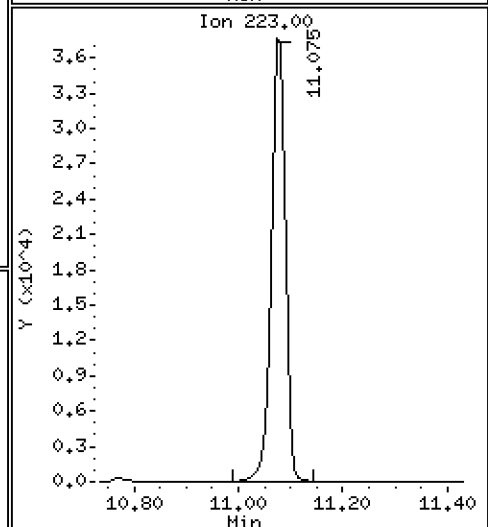
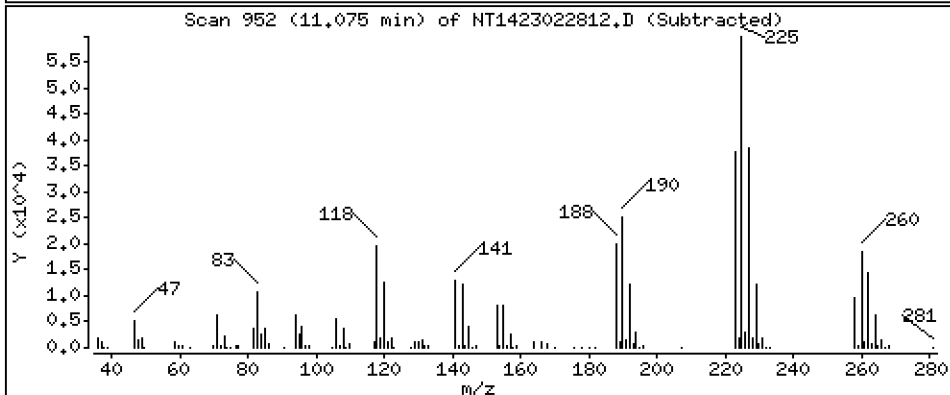
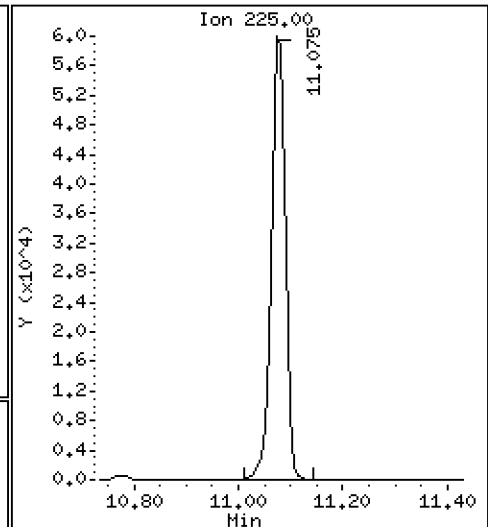
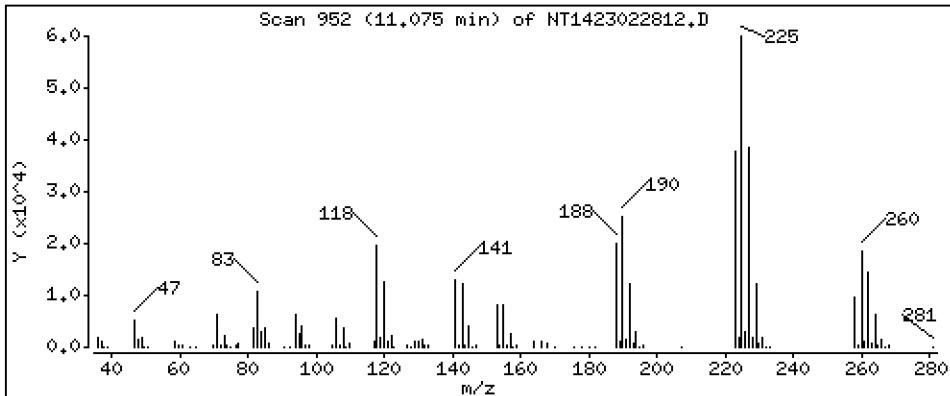
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,803 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

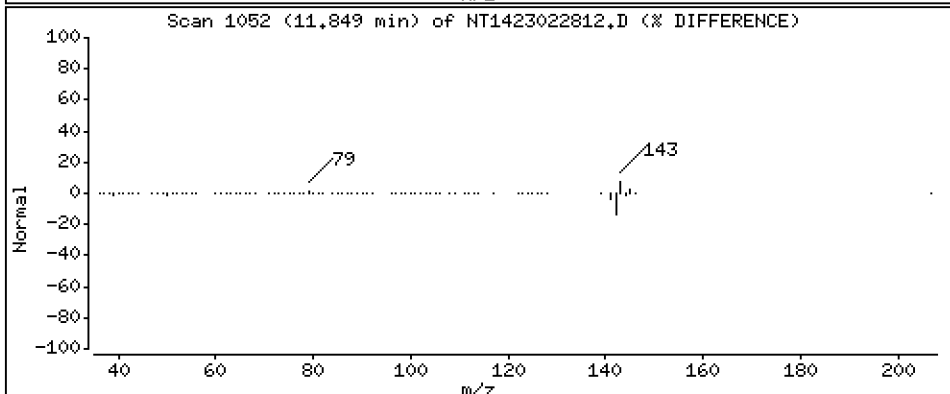
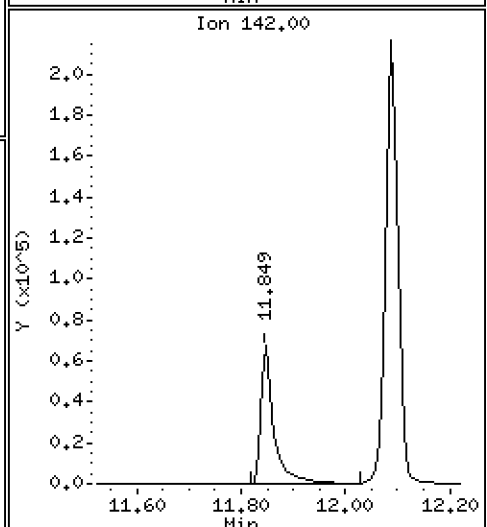
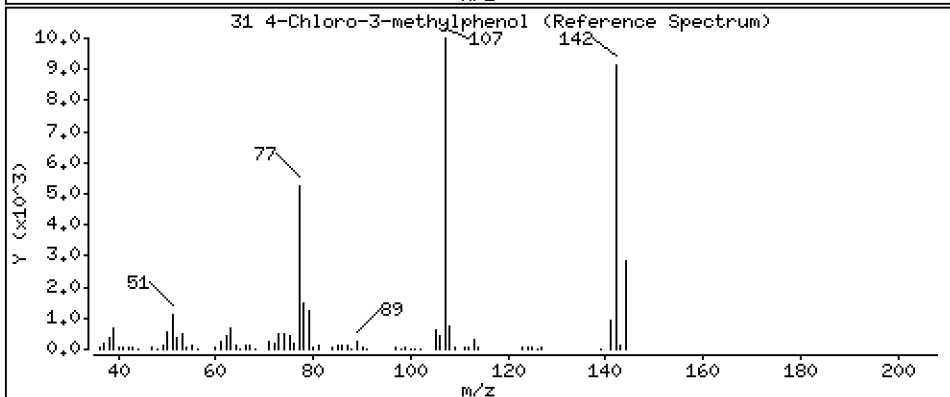
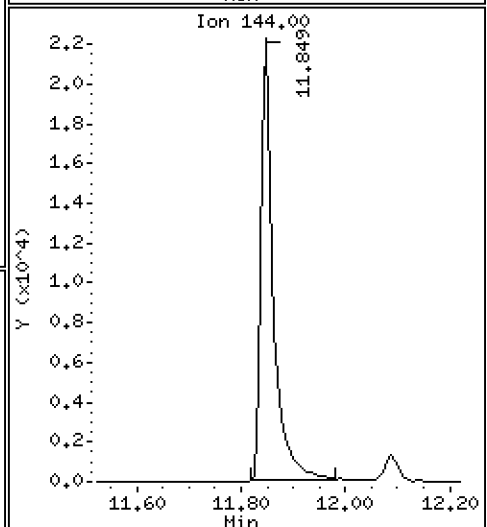
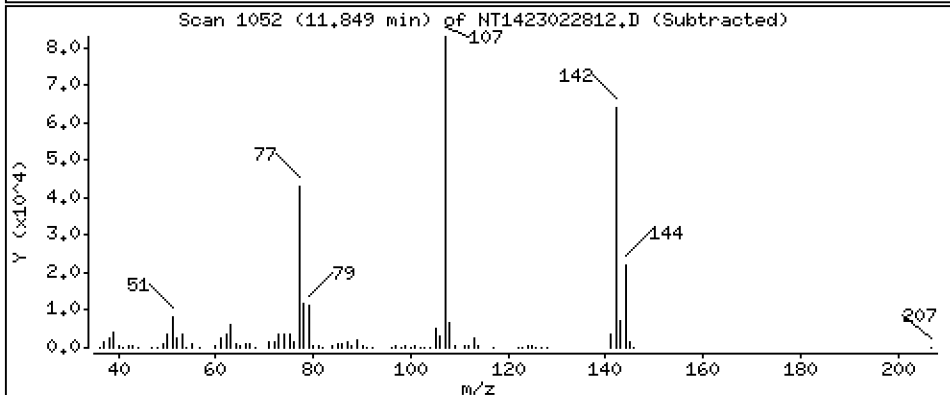
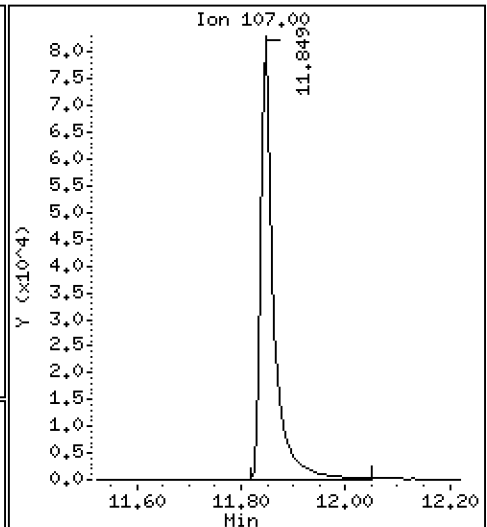
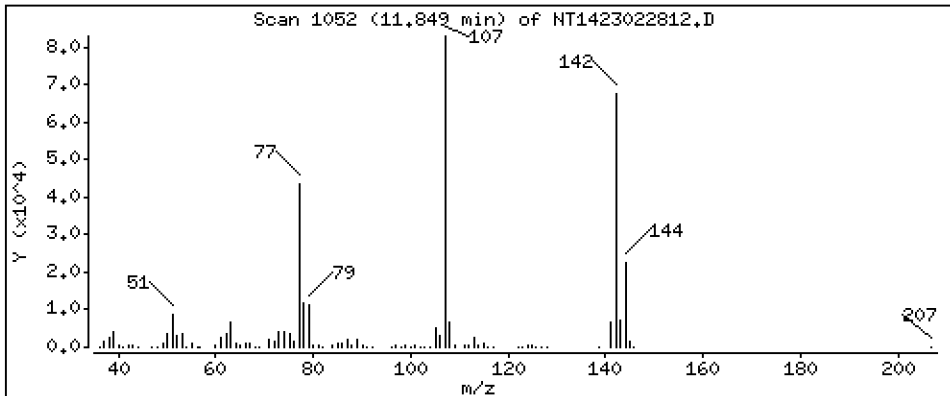
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 4.860 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

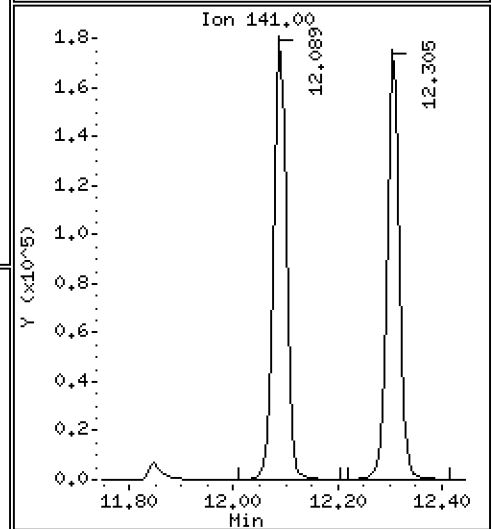
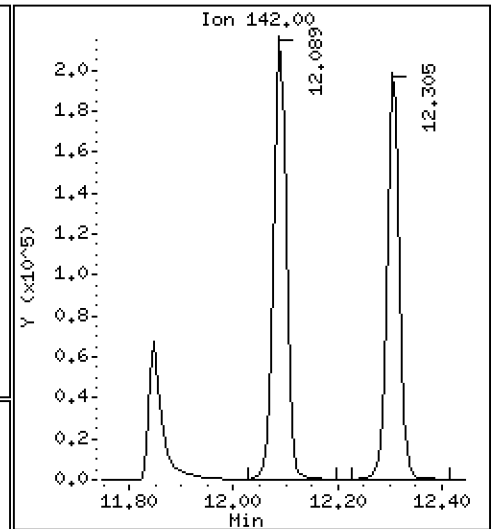
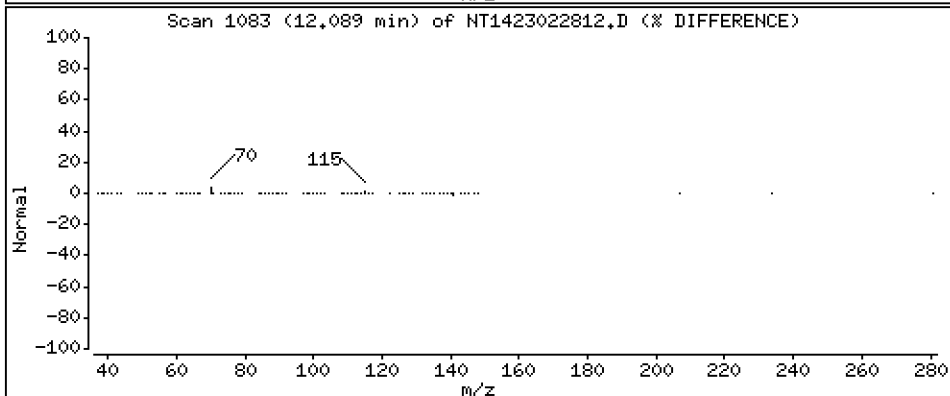
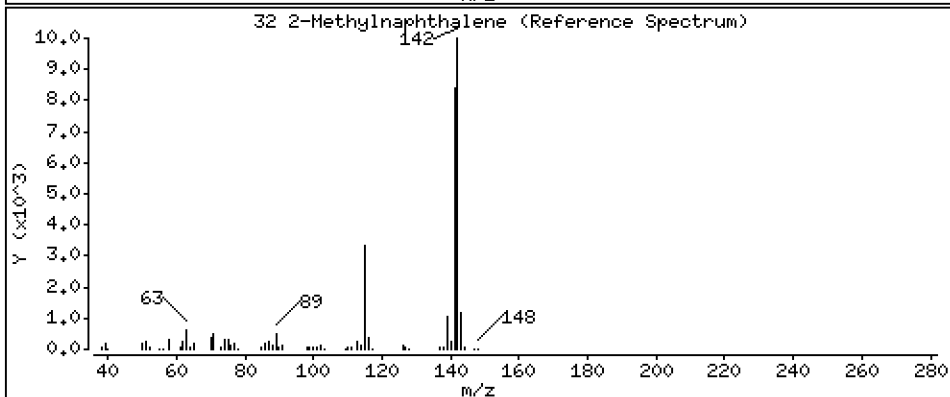
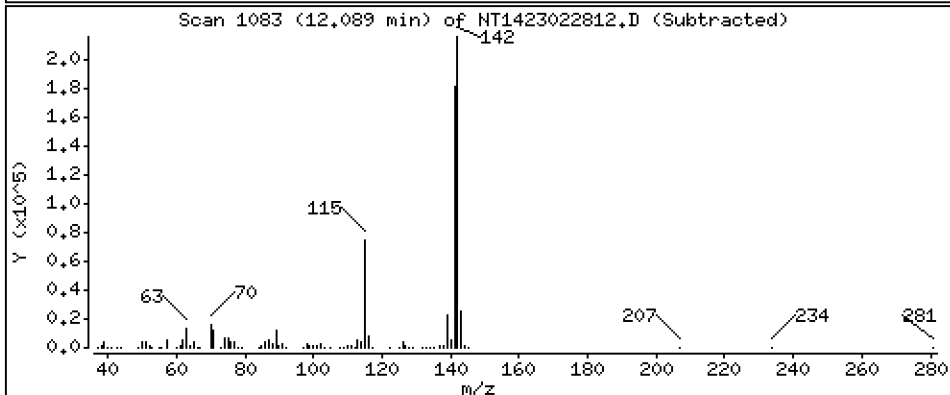
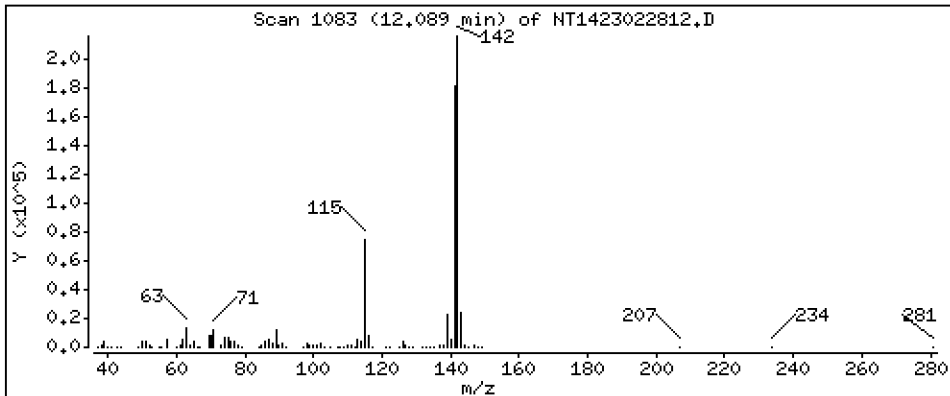
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,625 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

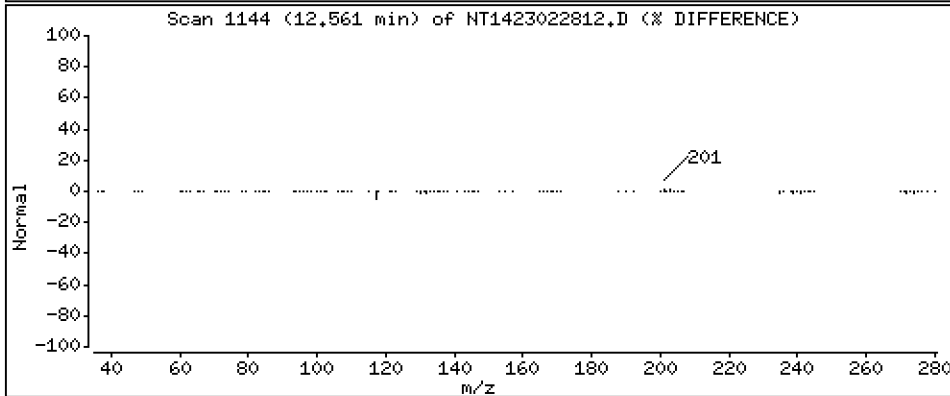
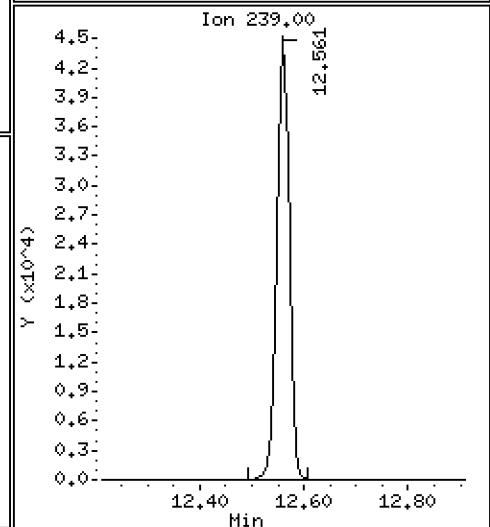
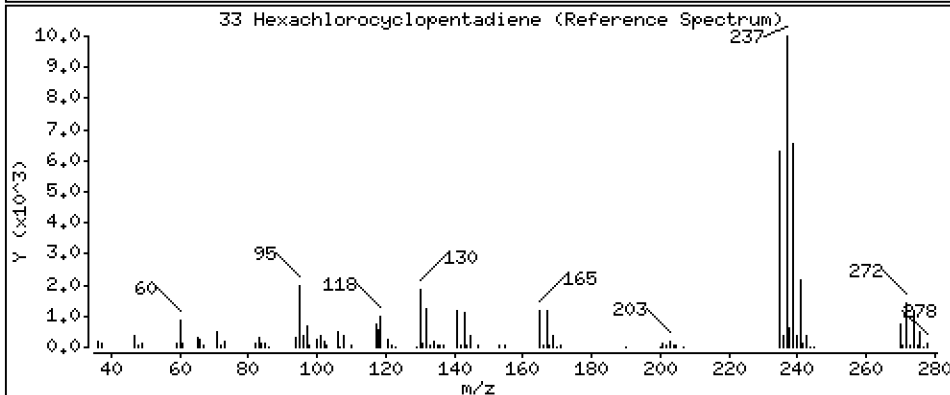
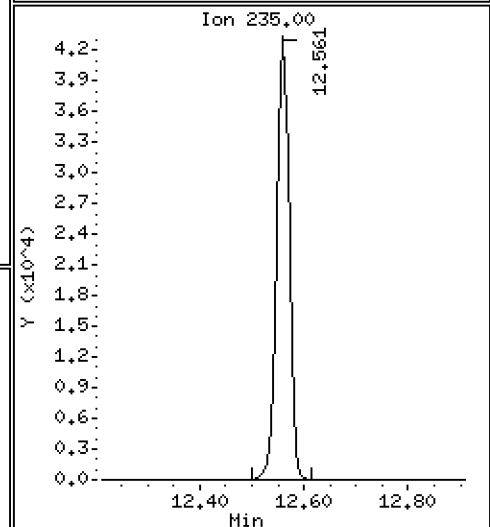
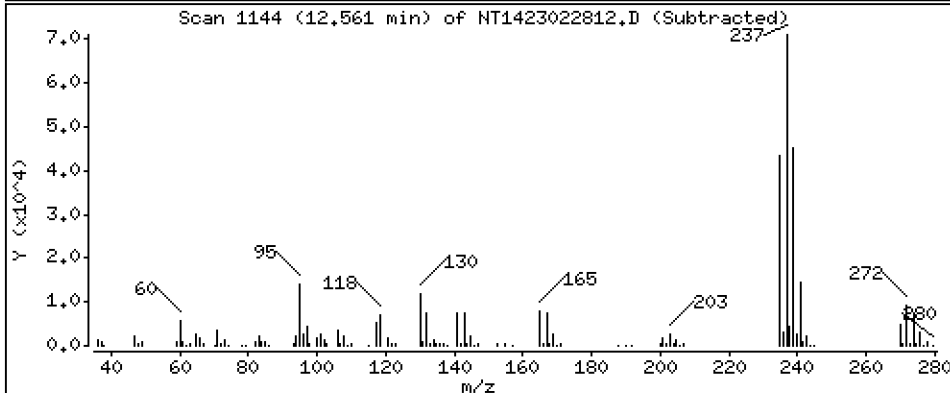
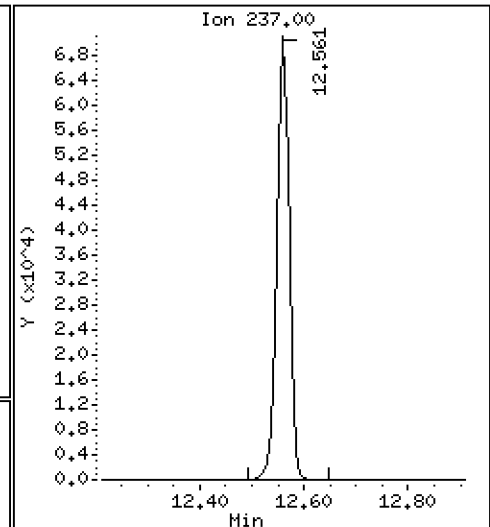
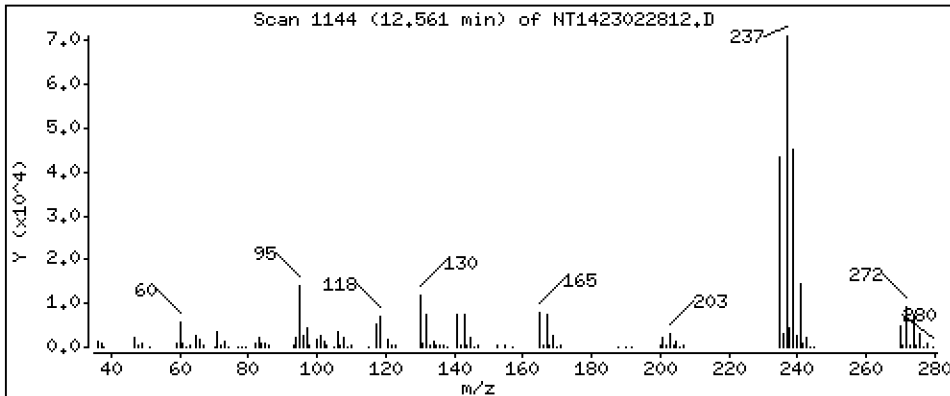
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 4,533 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

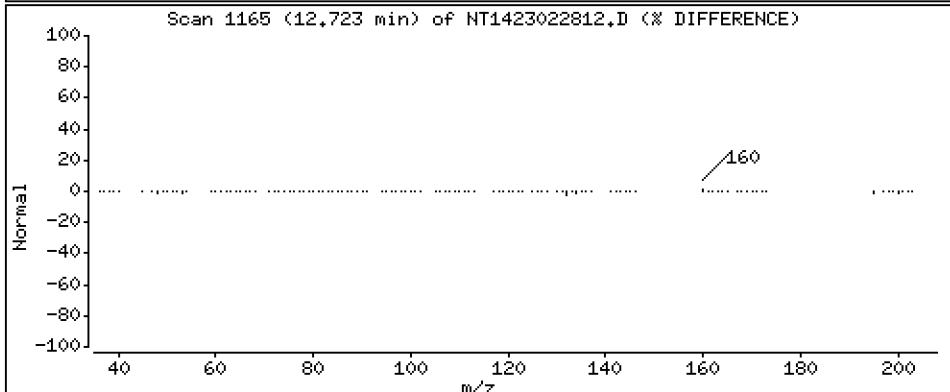
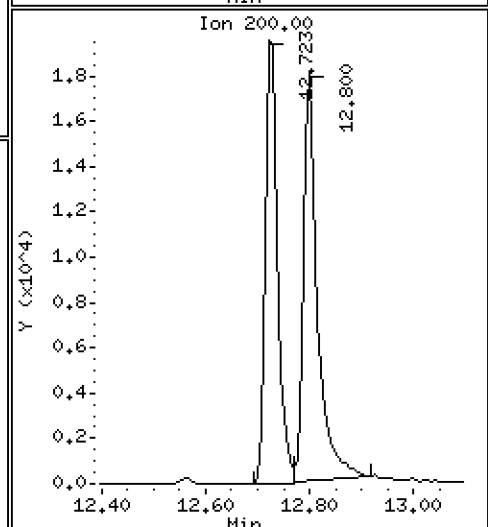
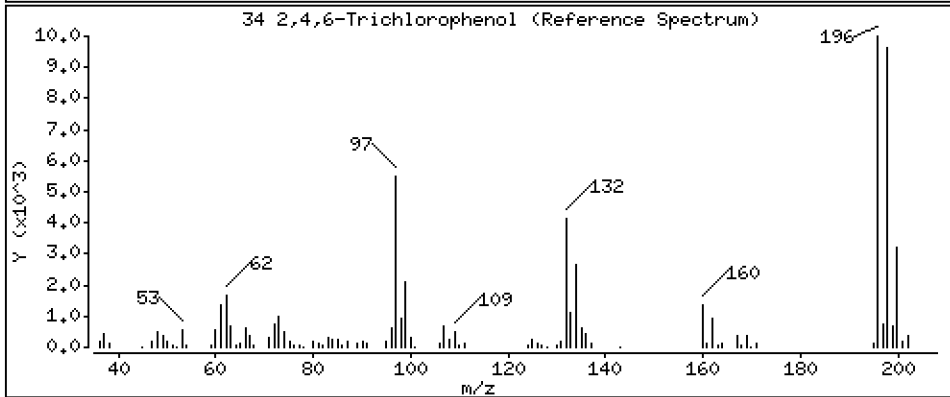
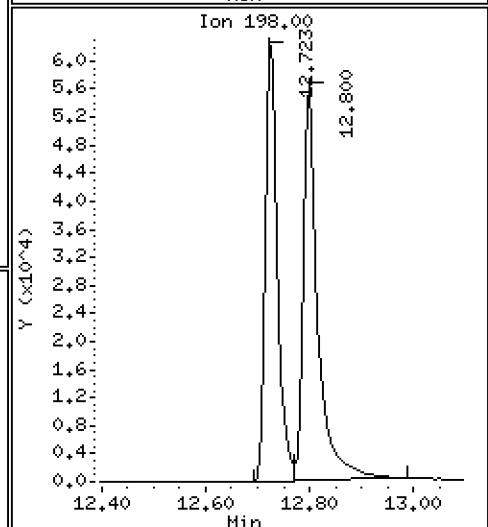
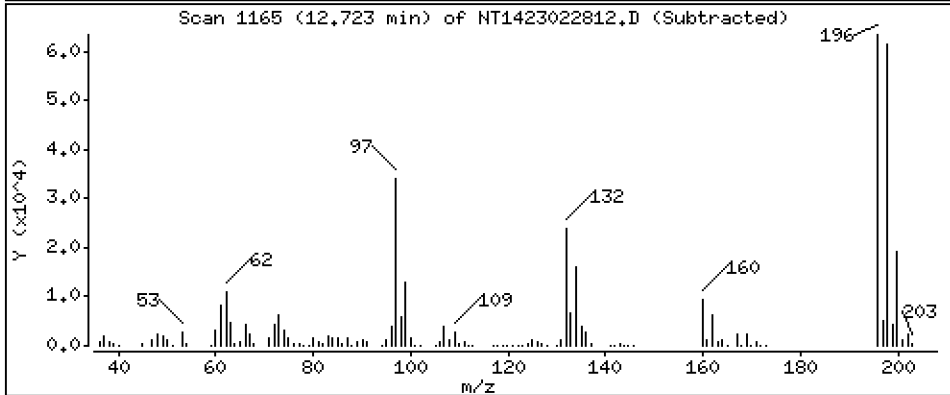
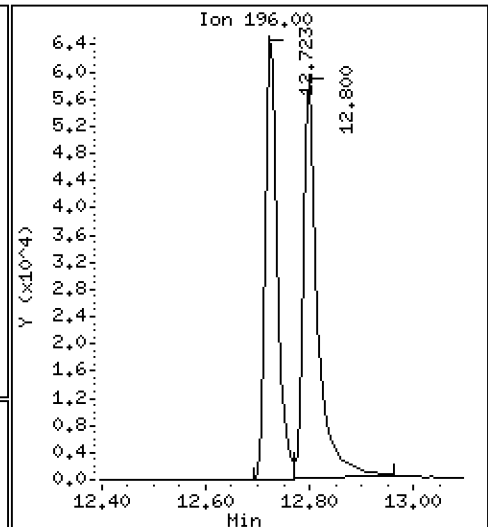
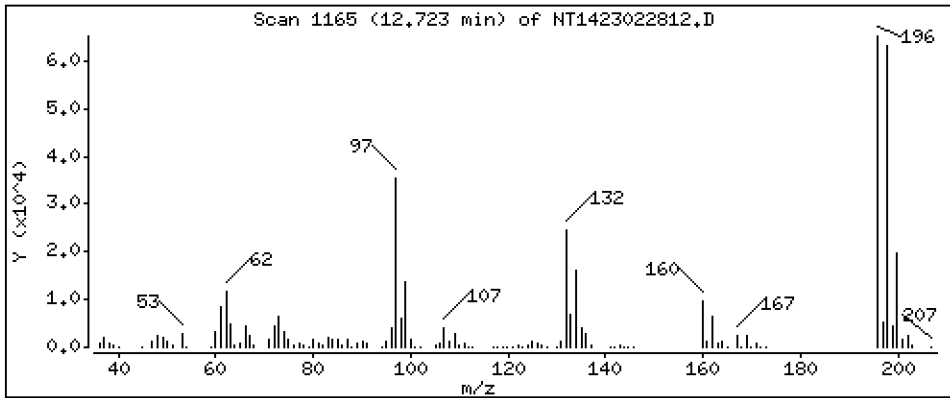
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 4,788 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

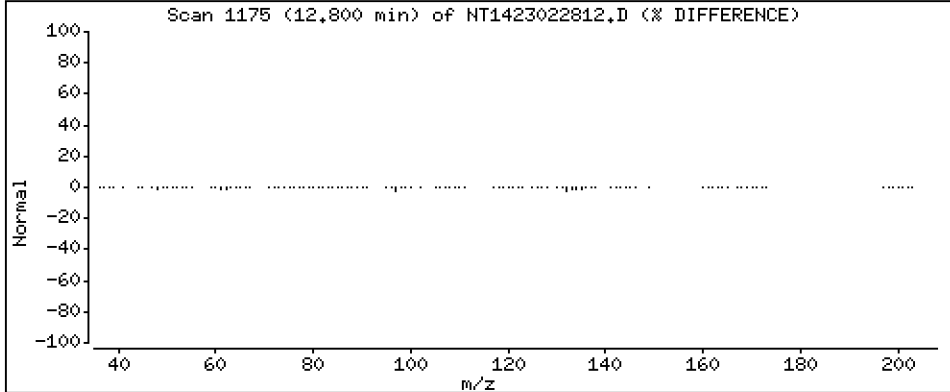
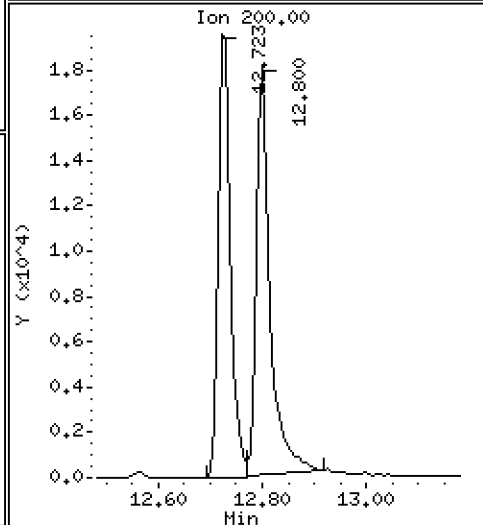
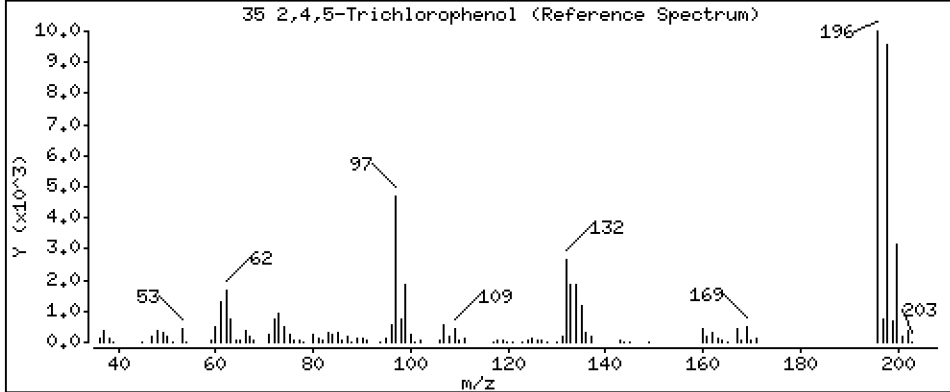
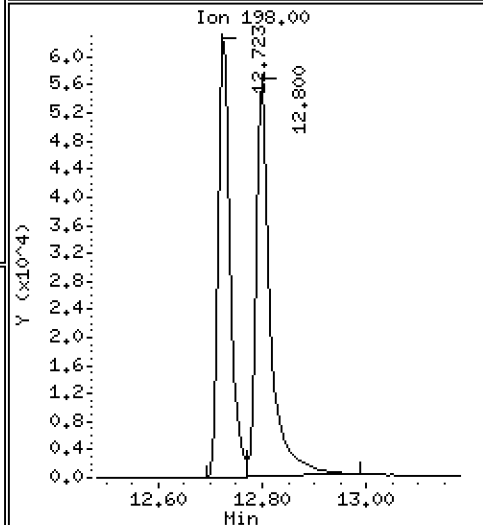
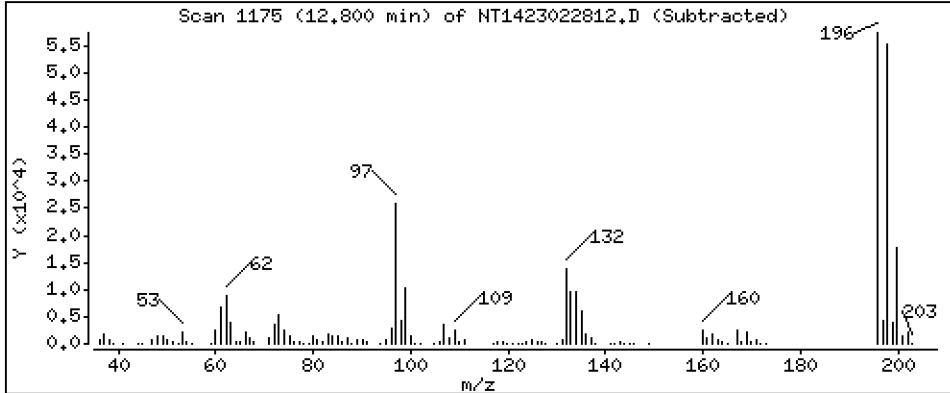
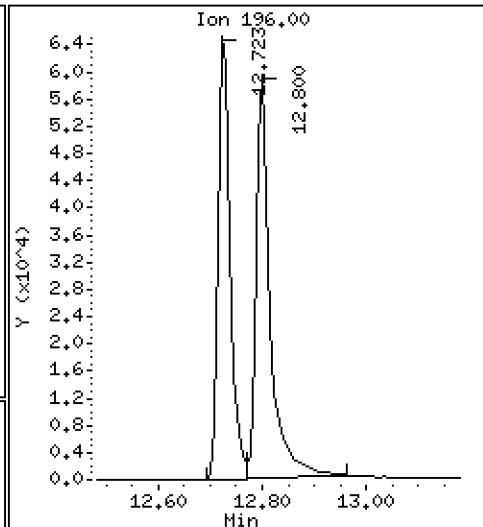
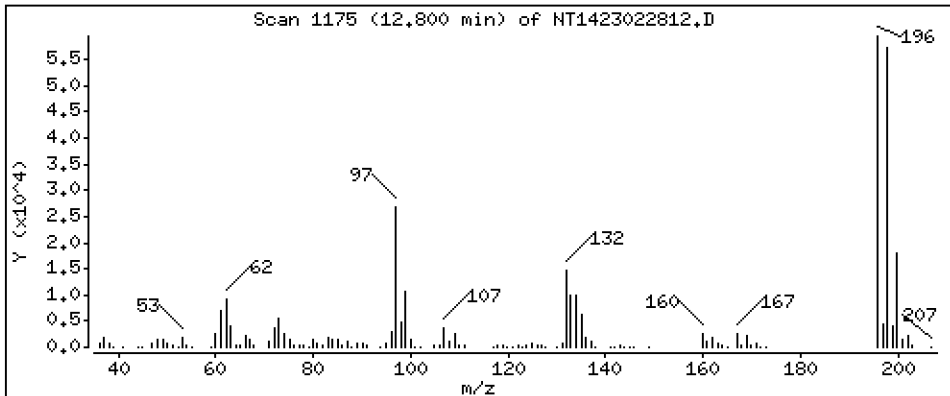
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 4,669 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

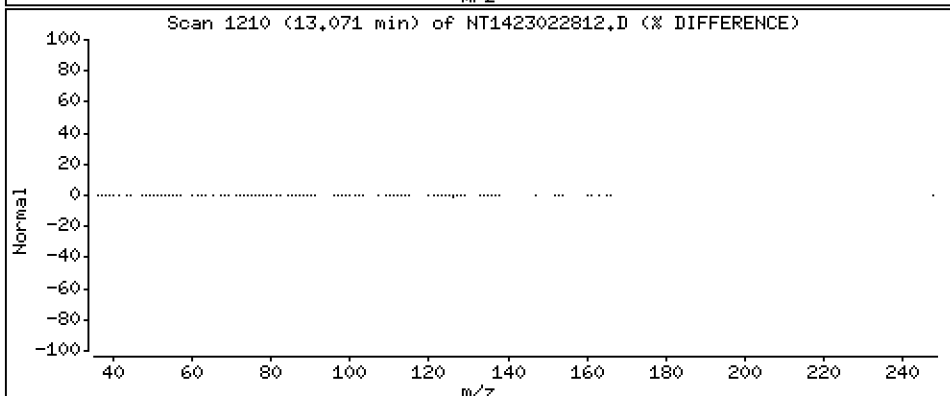
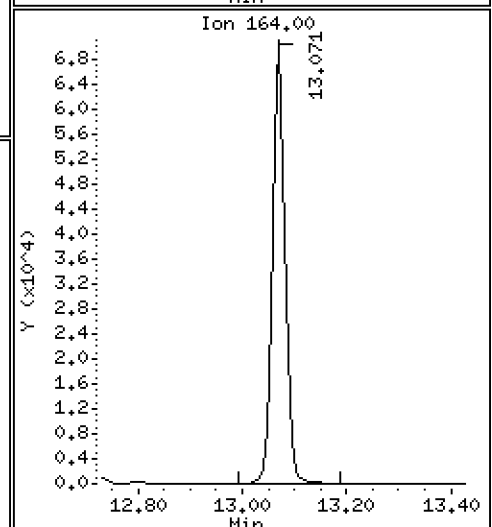
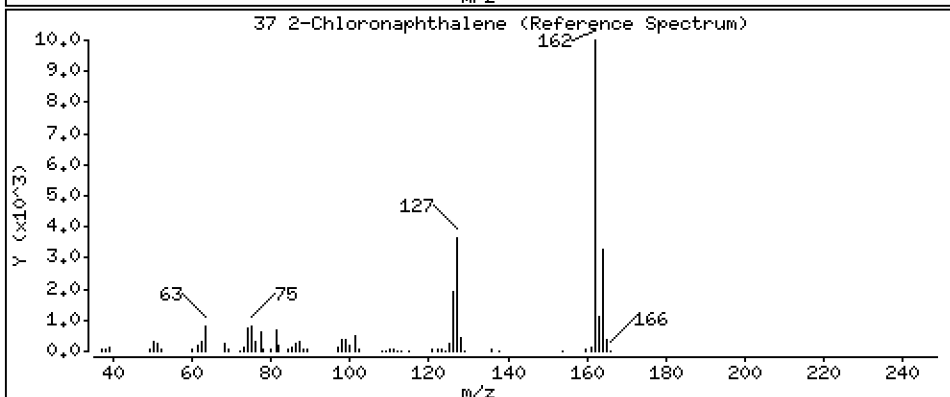
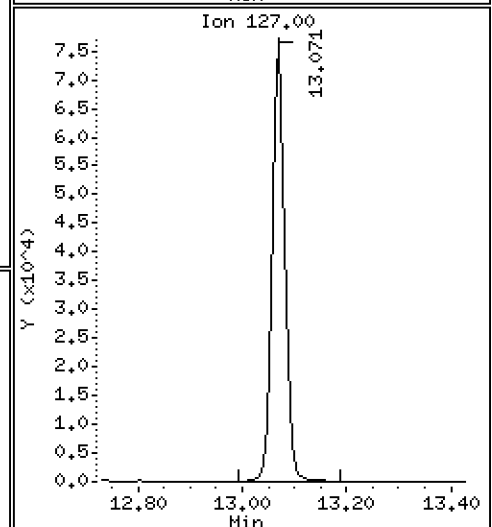
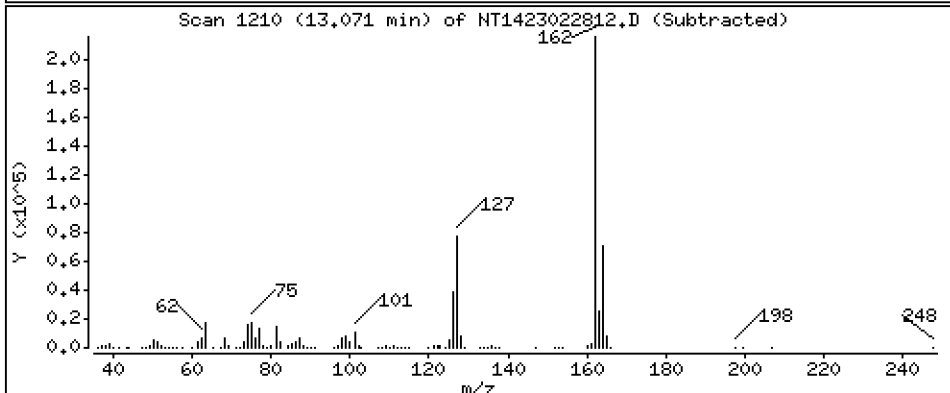
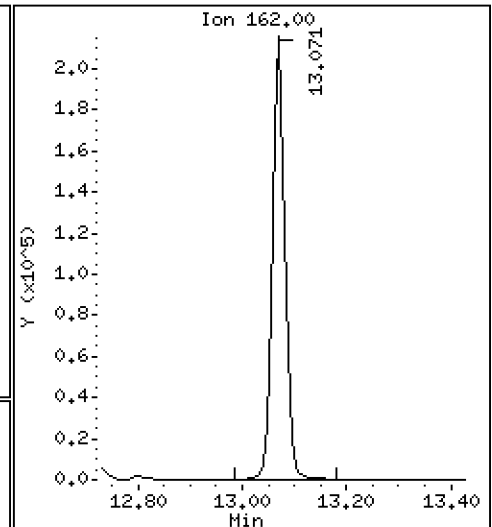
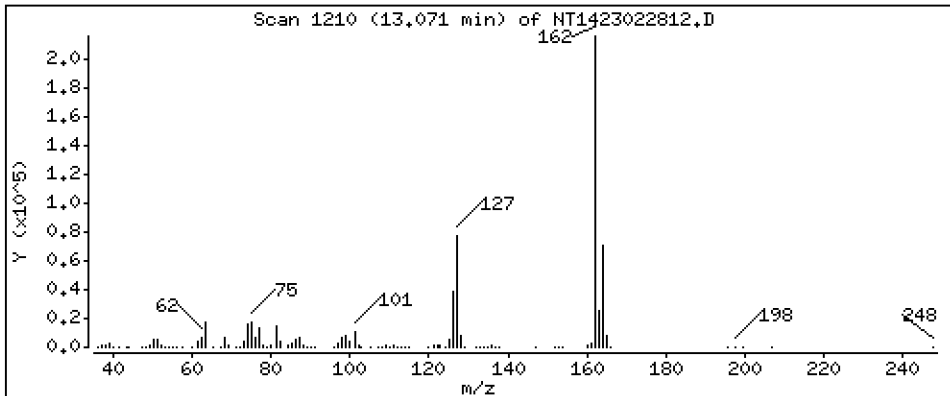
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

37 2-Chloronaphthalene

Concentration: 4.911 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

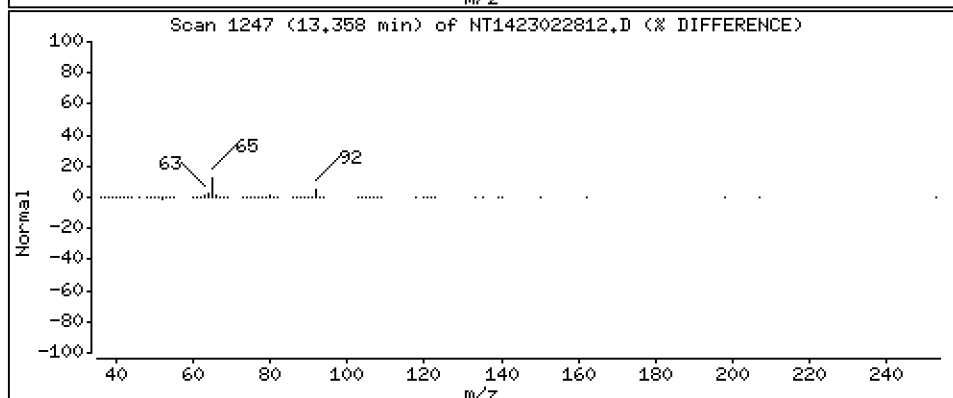
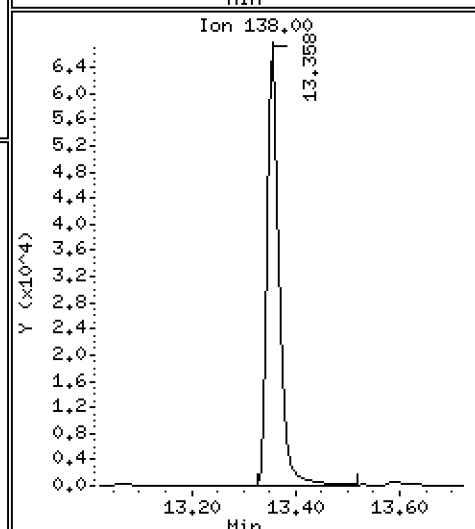
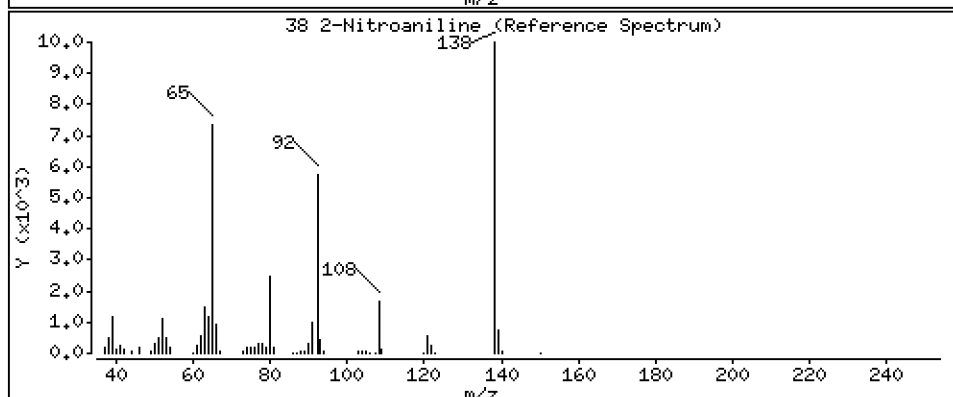
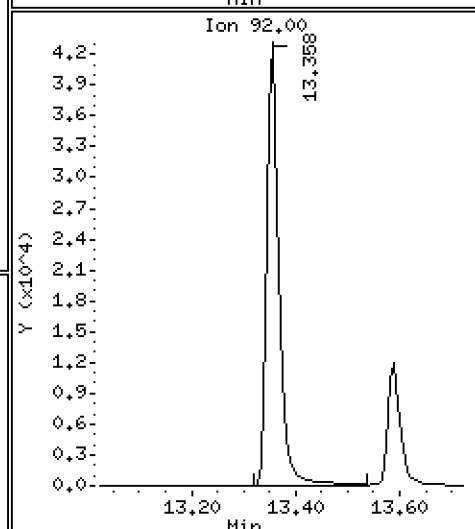
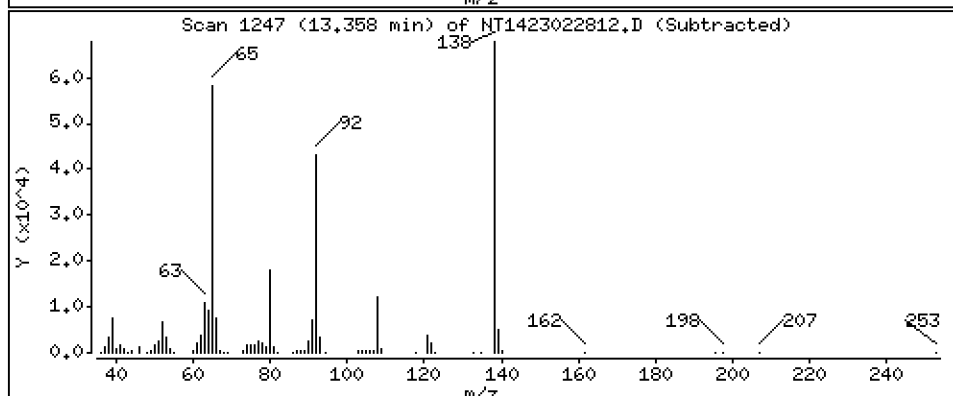
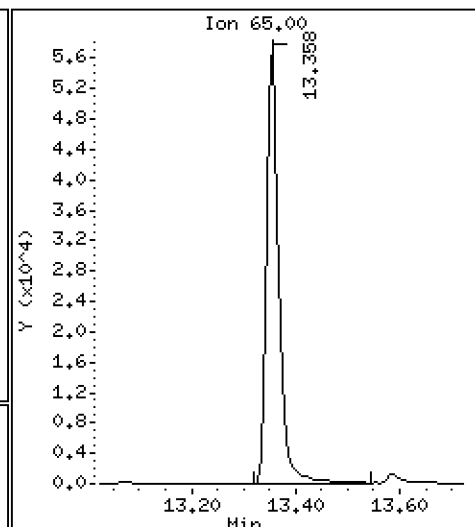
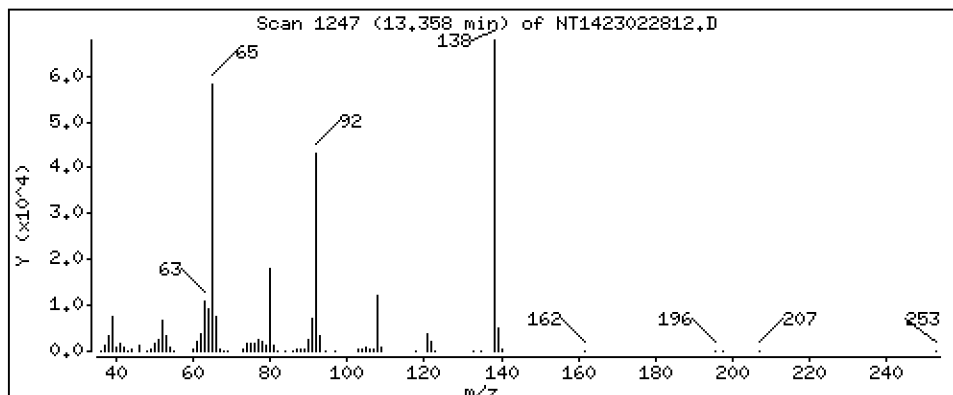
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 4,980 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

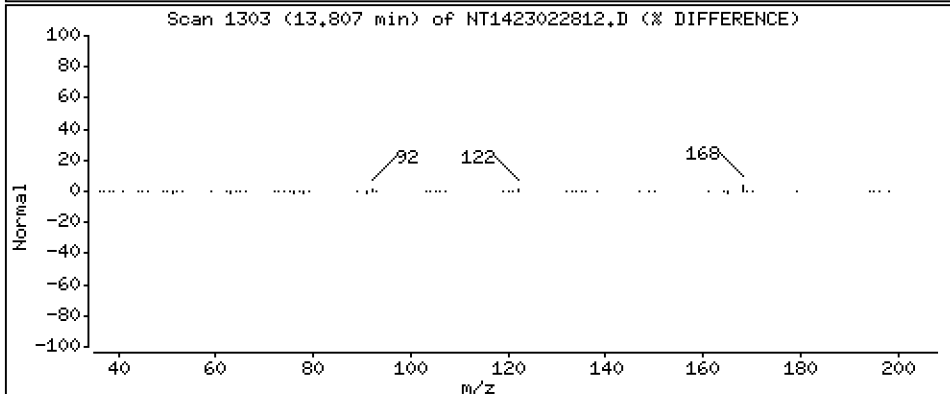
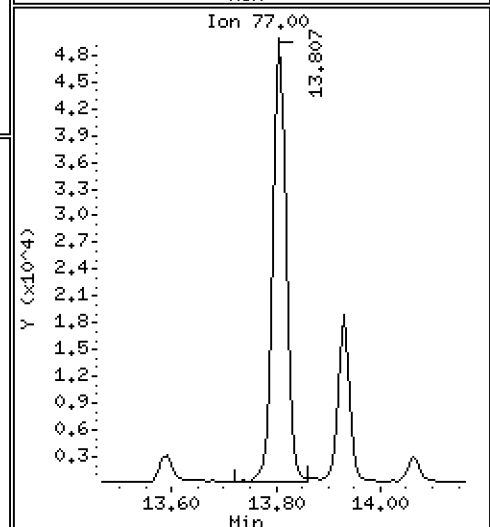
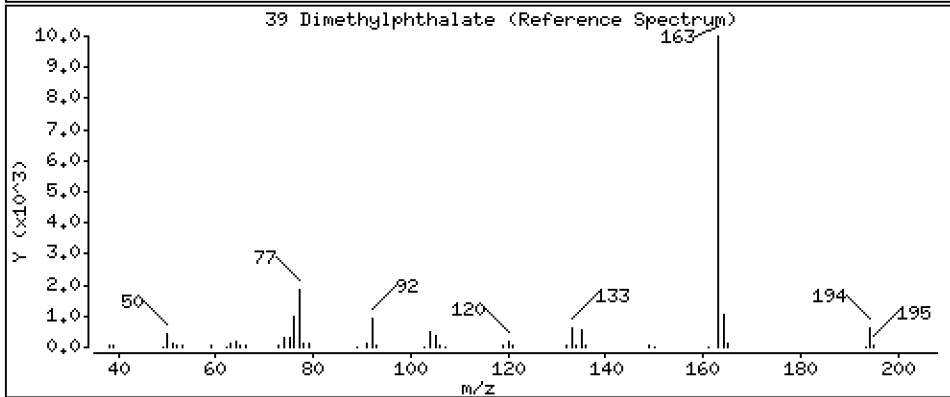
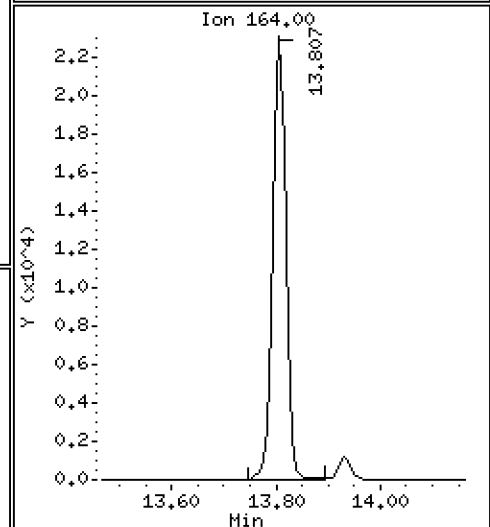
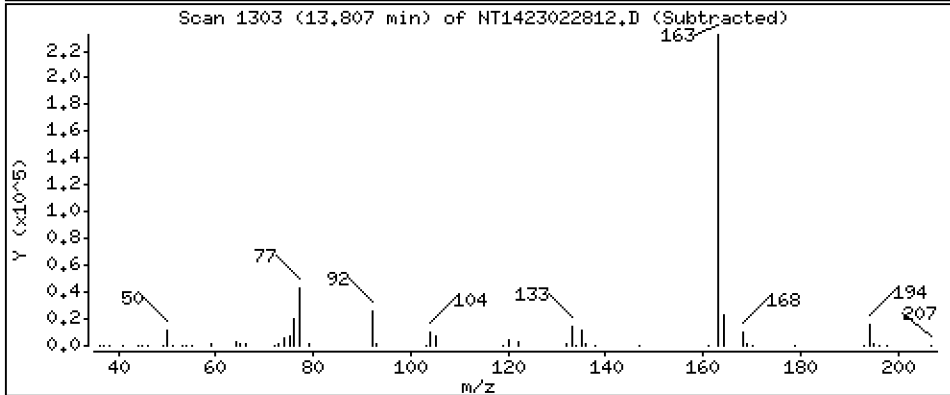
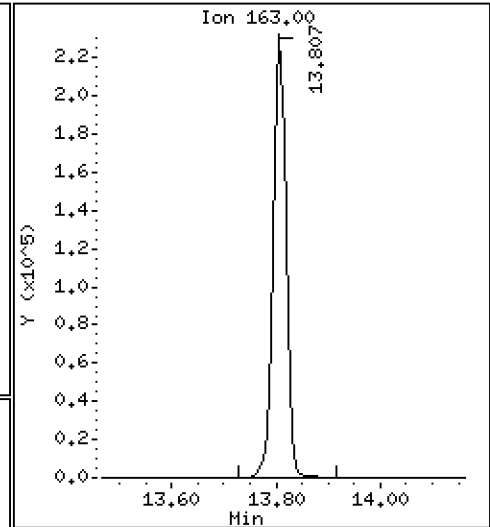
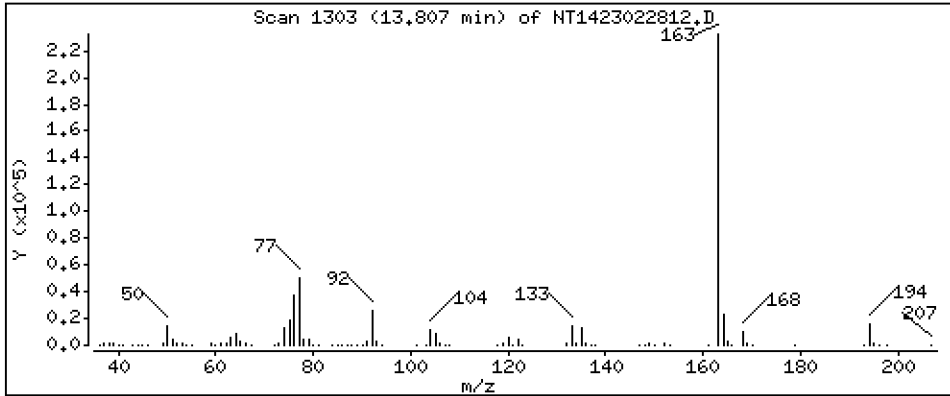
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,206 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

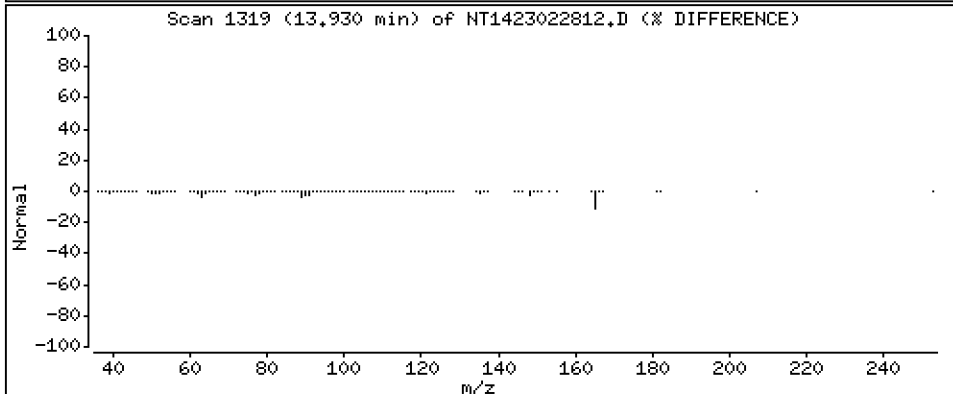
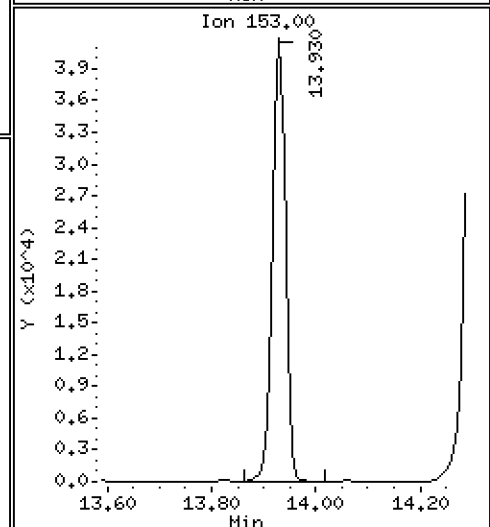
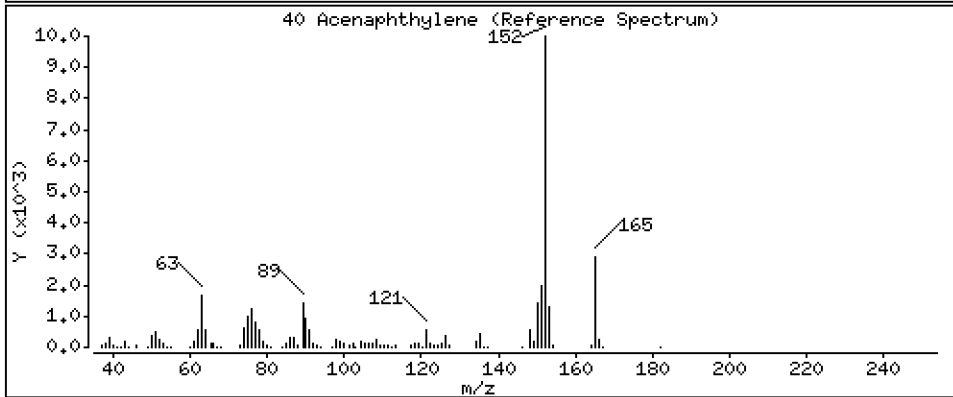
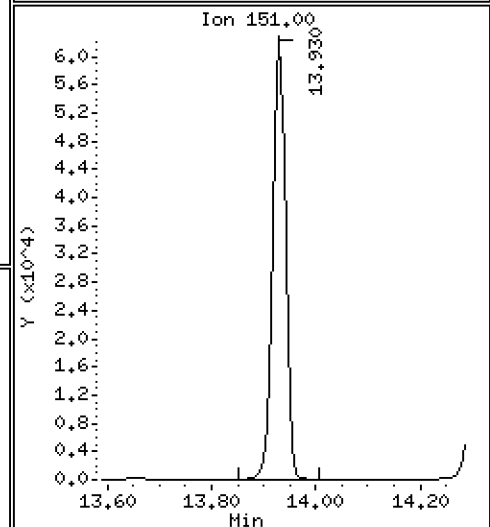
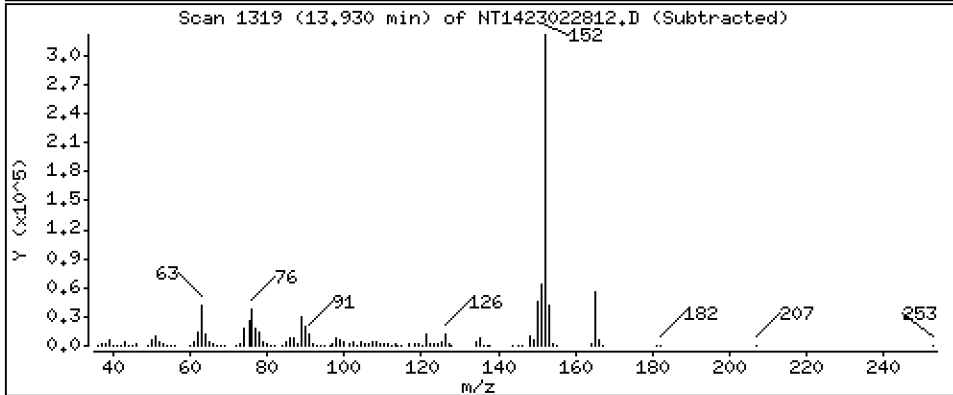
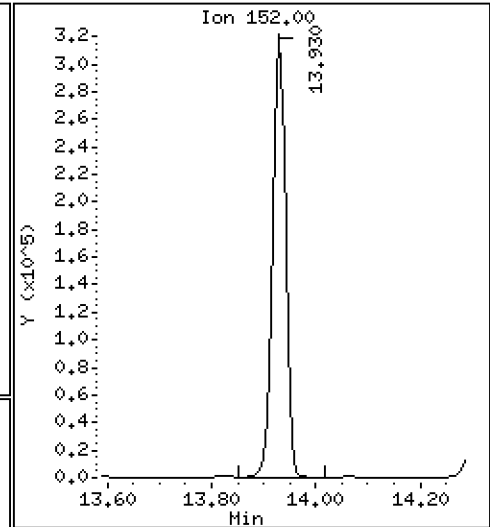
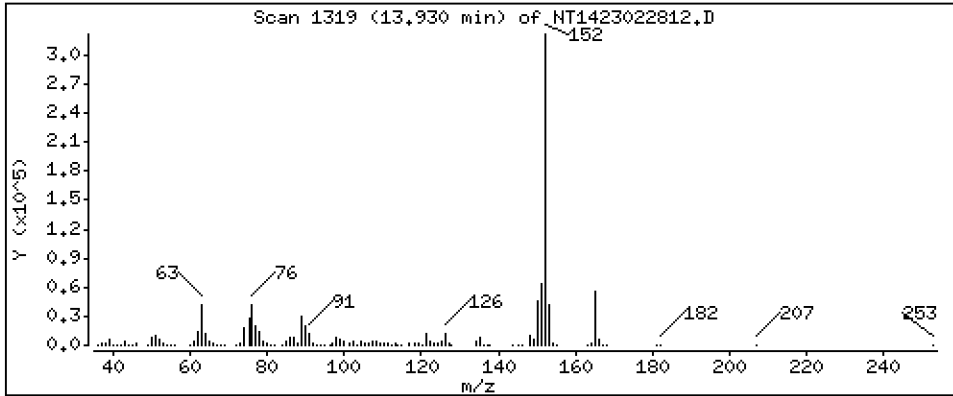
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,975 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

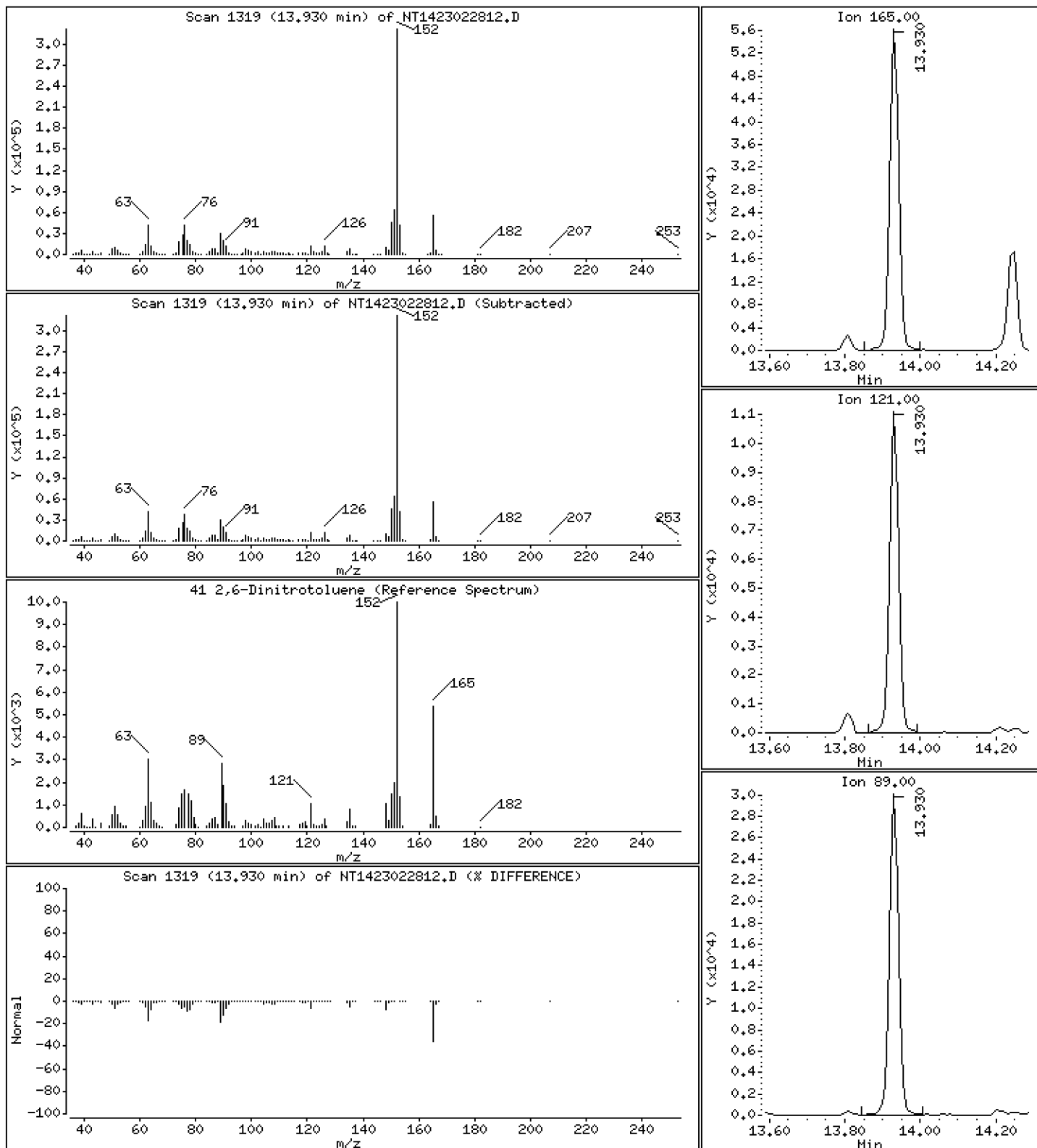
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 5,227 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

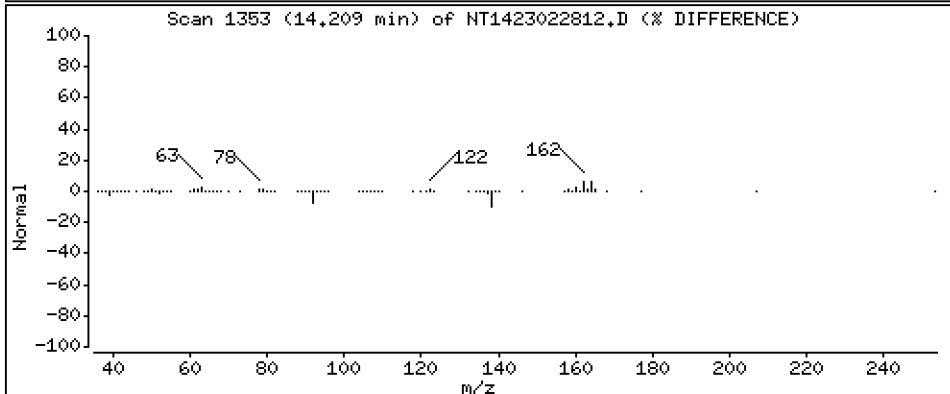
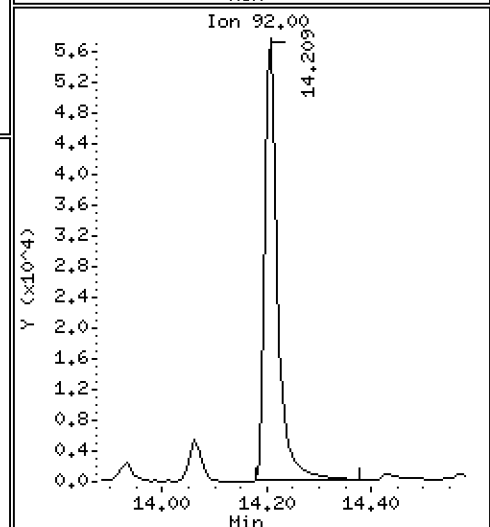
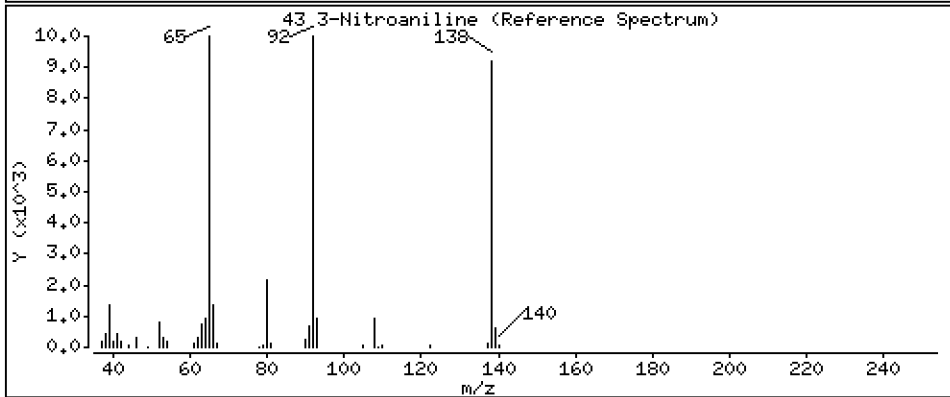
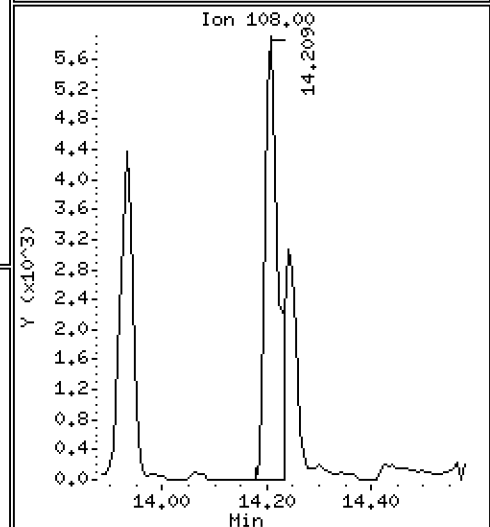
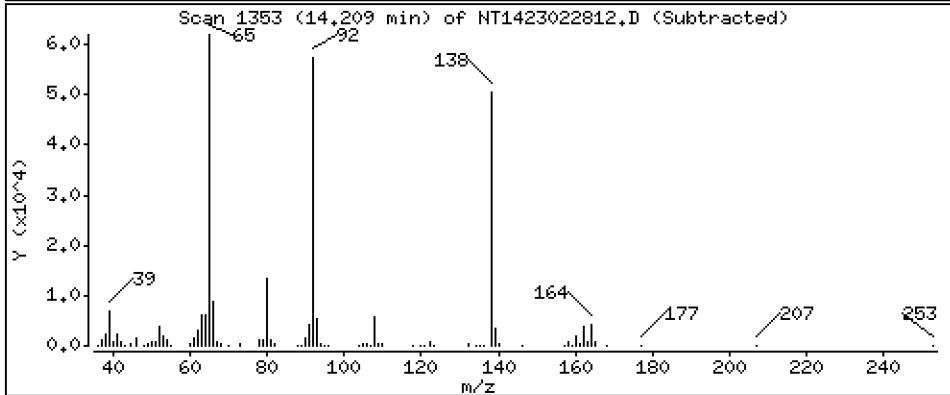
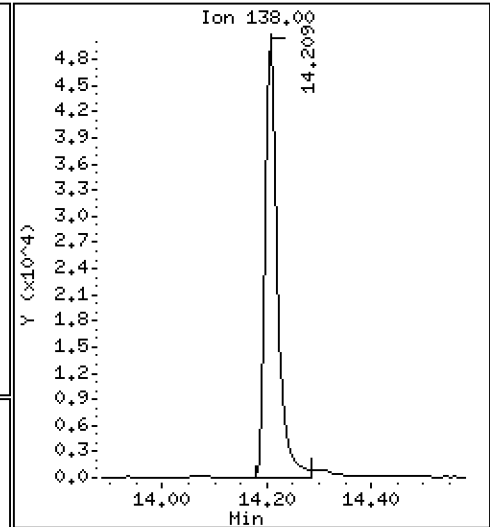
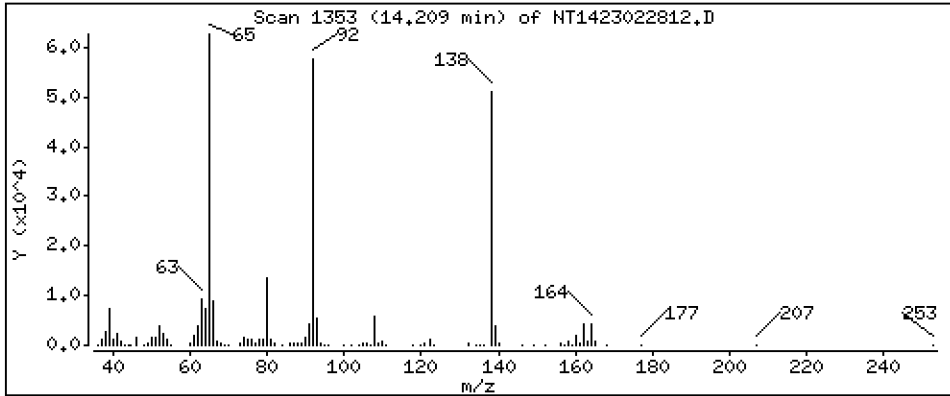
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 4,869 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

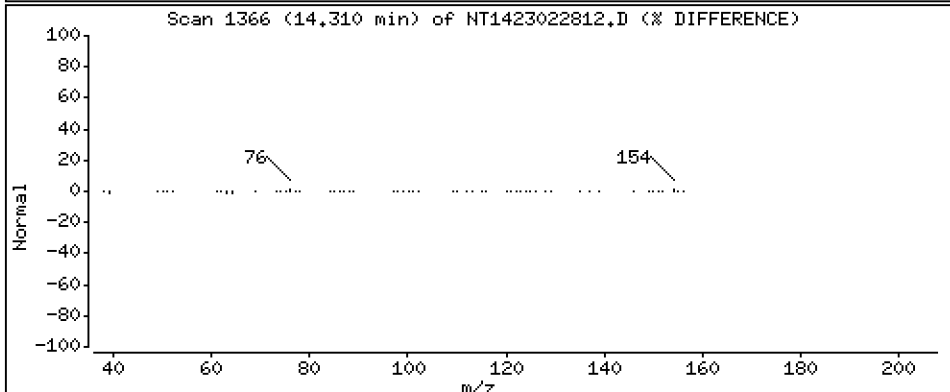
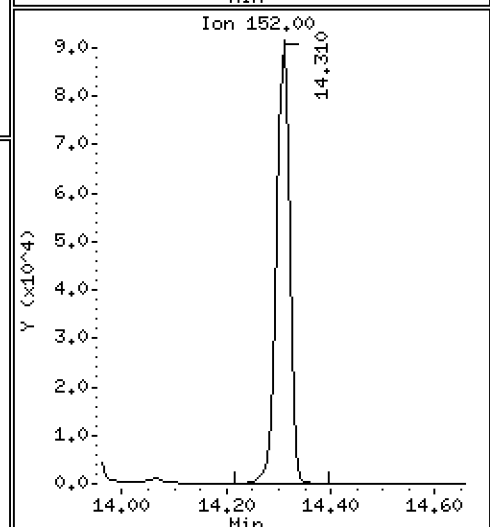
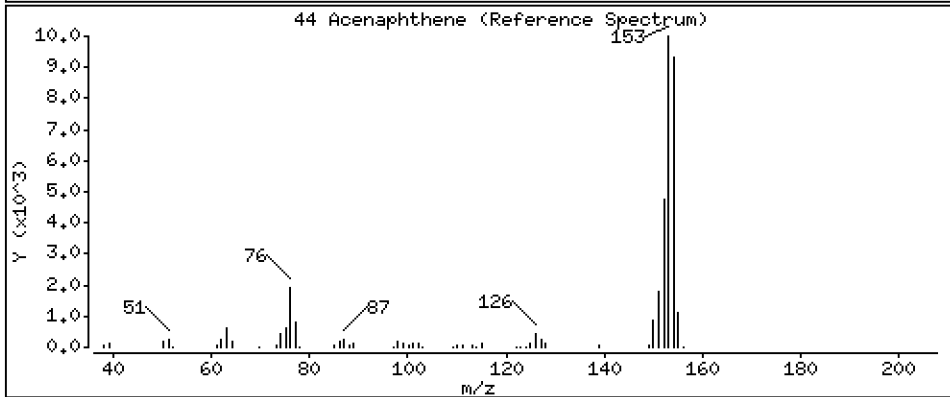
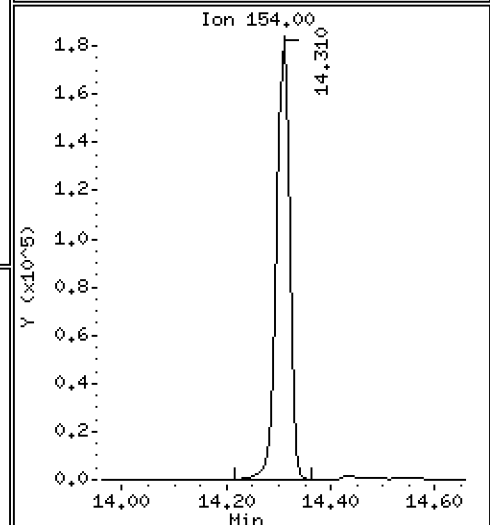
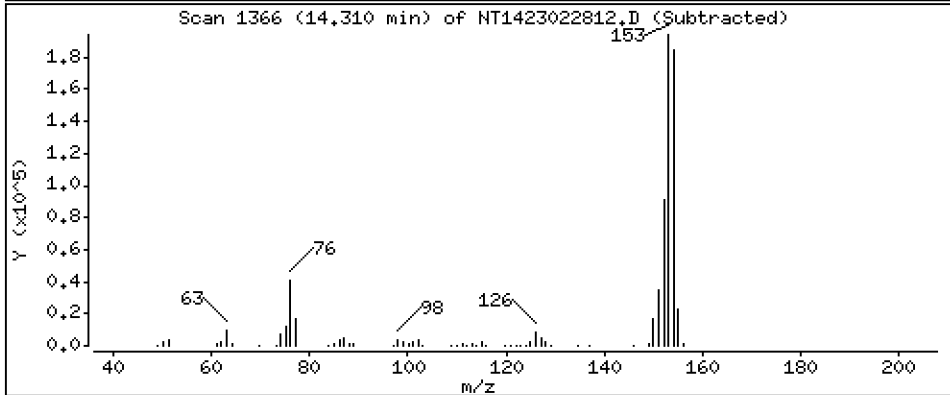
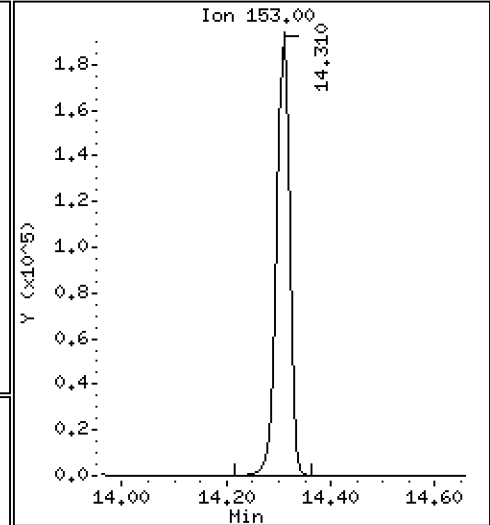
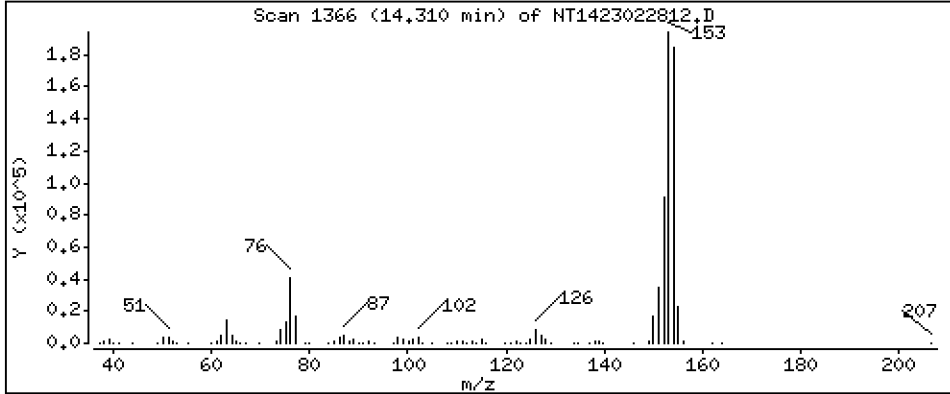
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,767 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

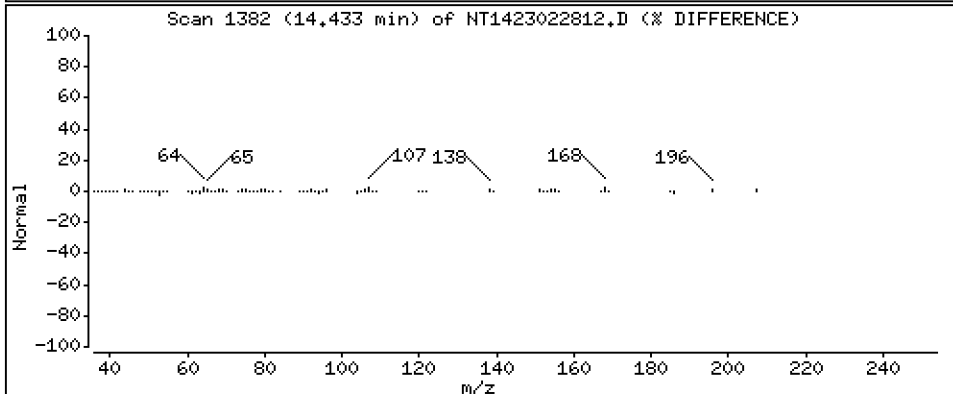
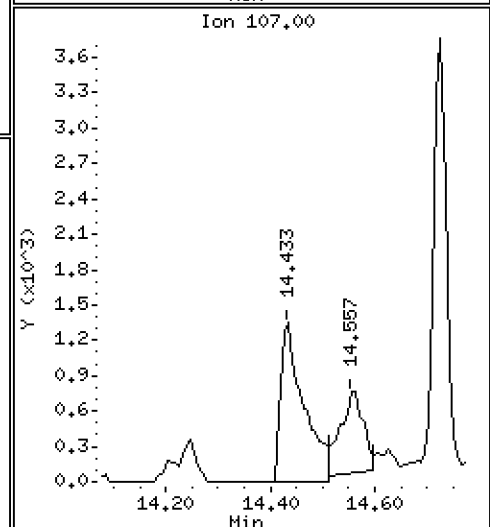
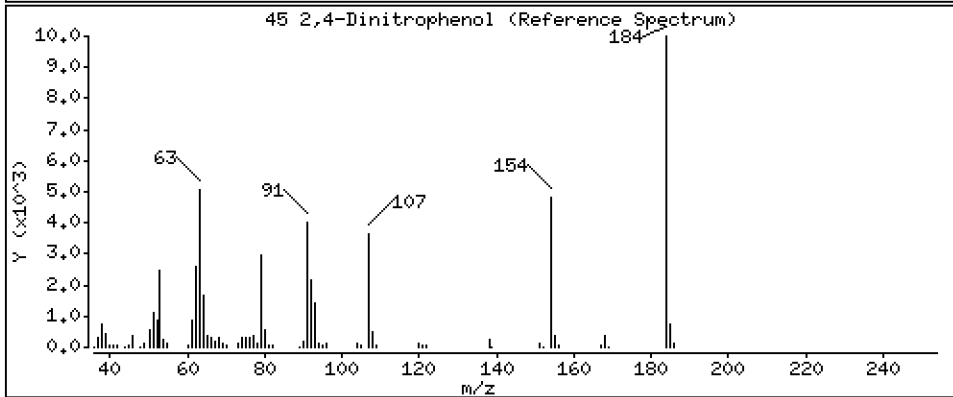
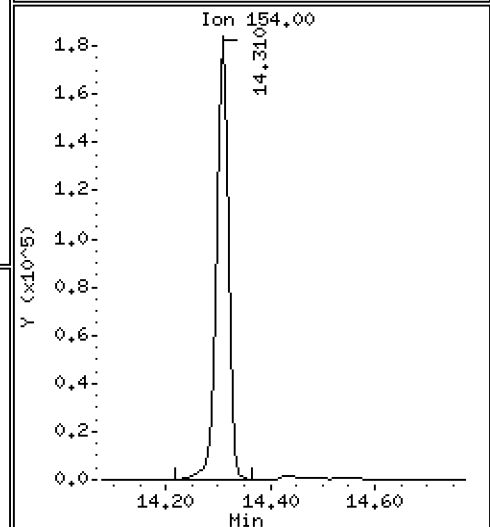
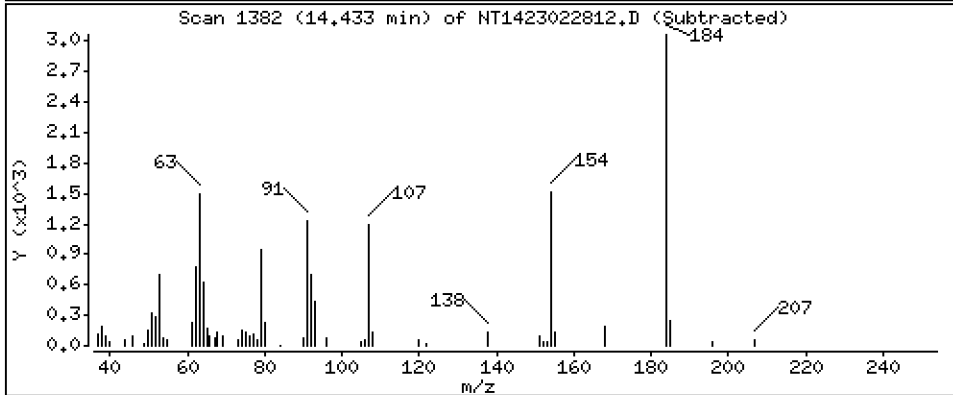
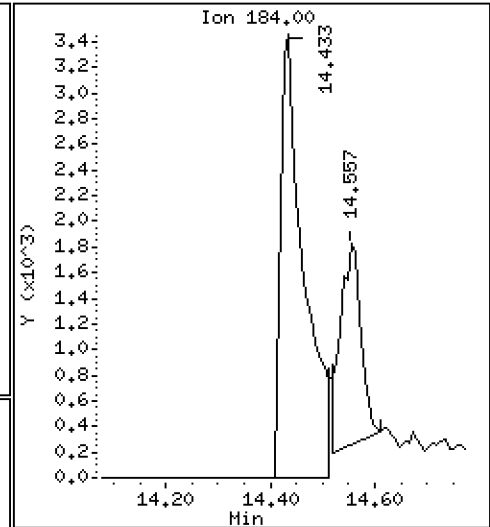
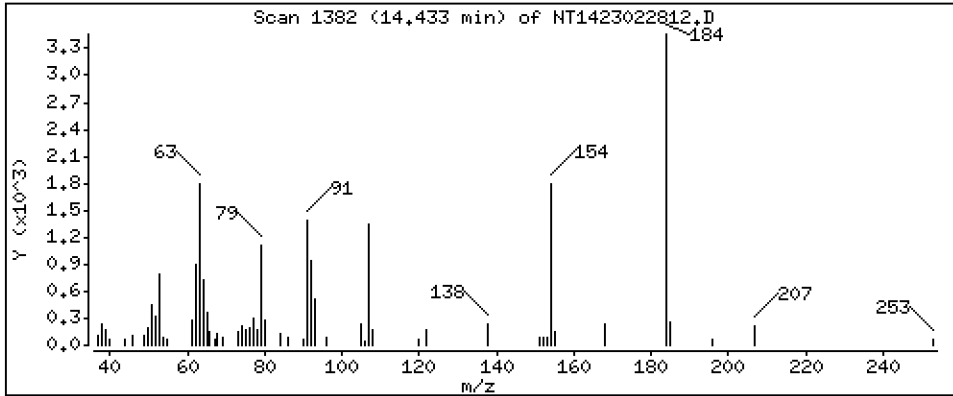
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

45 2,4-Dinitrophenol

Concentration: 0.9807 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

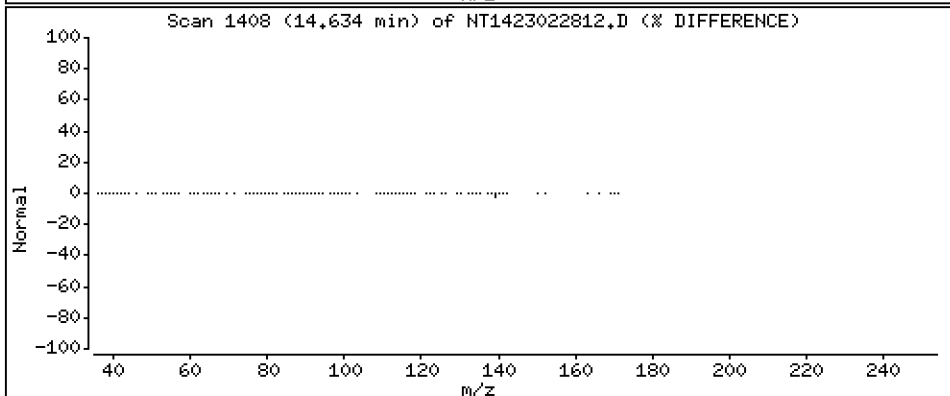
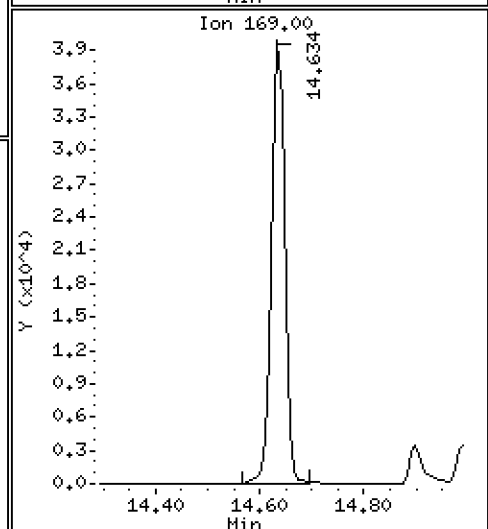
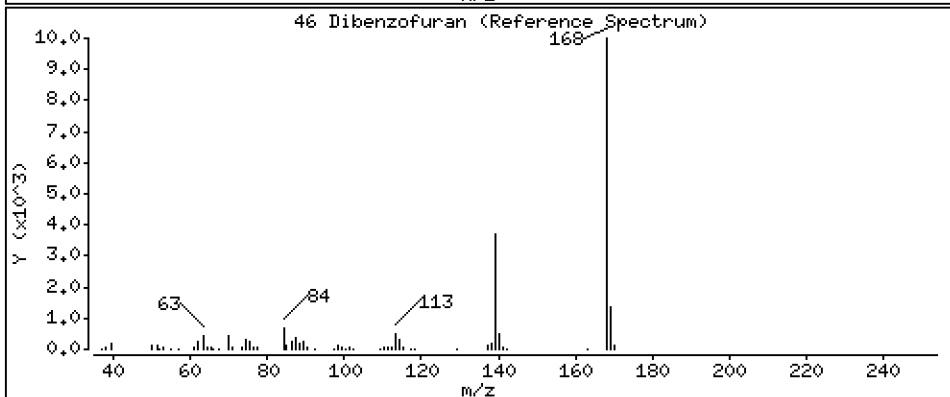
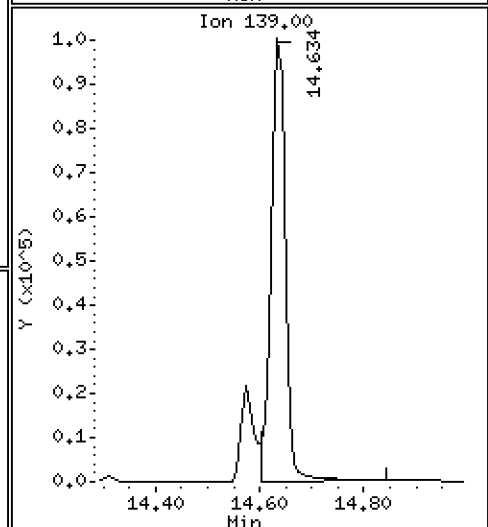
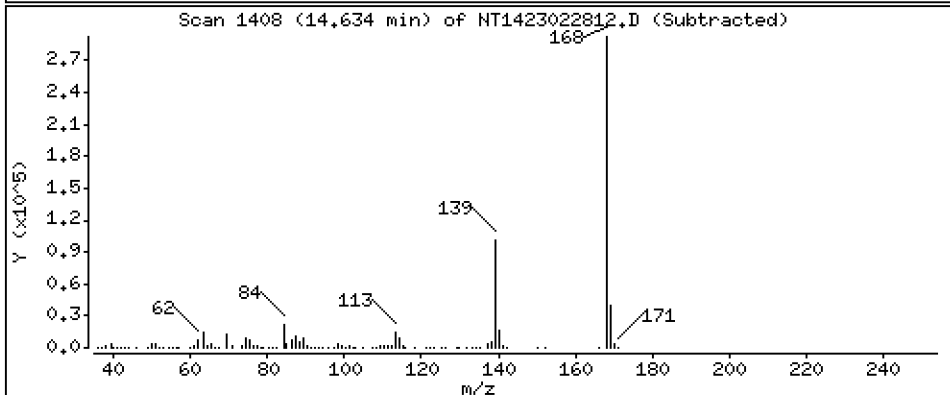
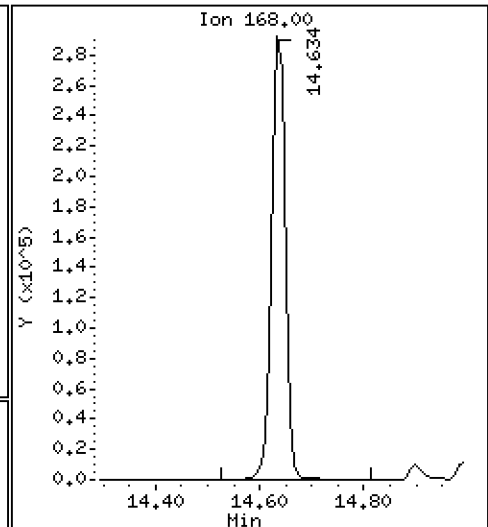
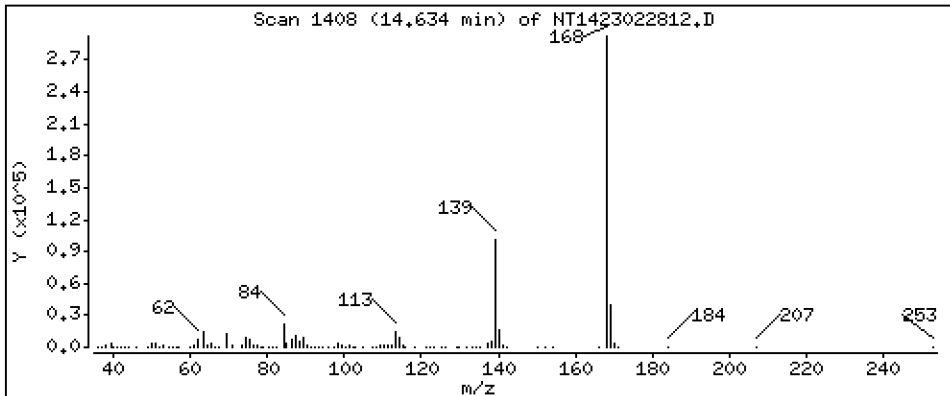
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,718 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

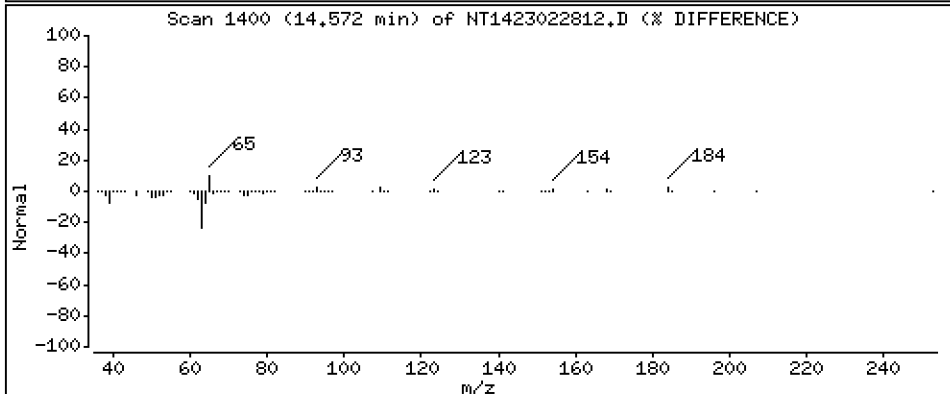
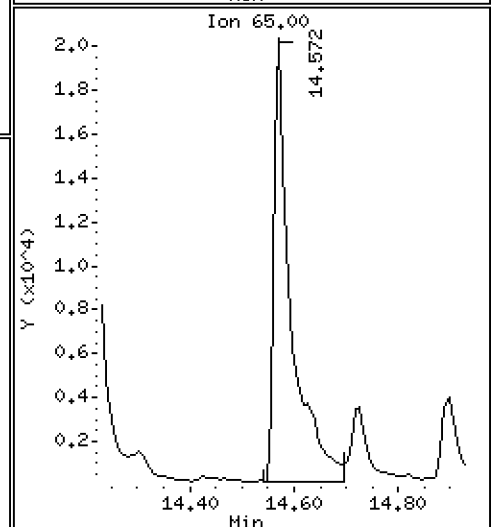
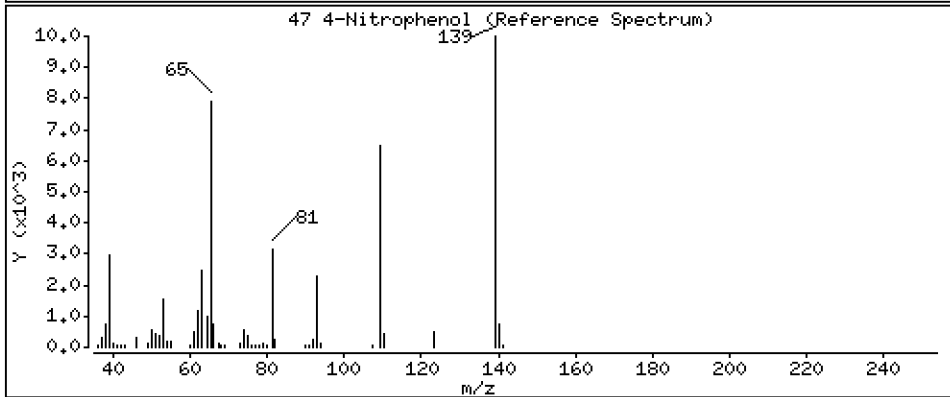
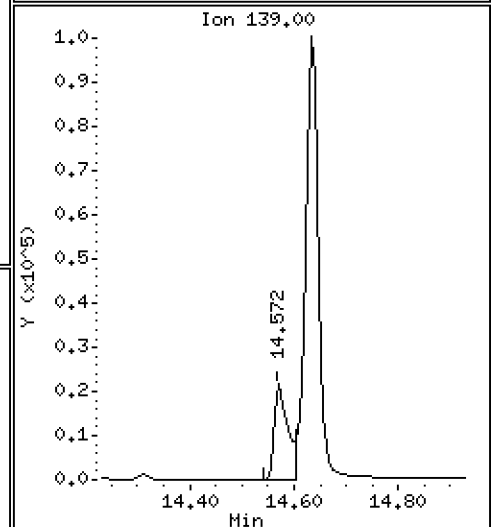
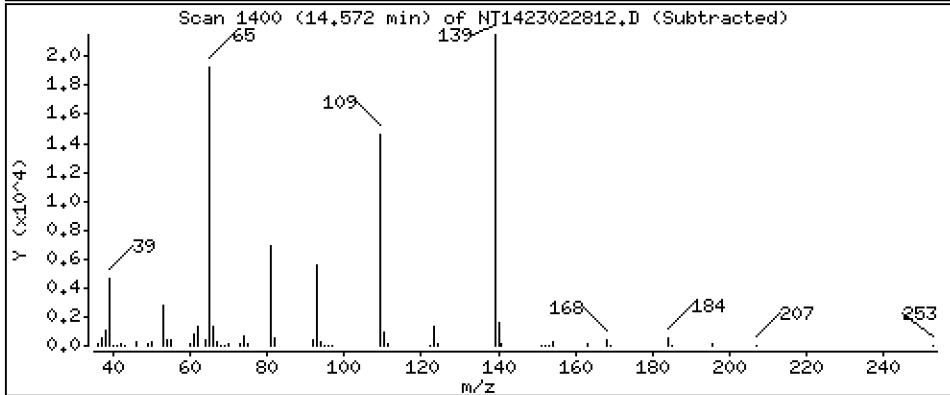
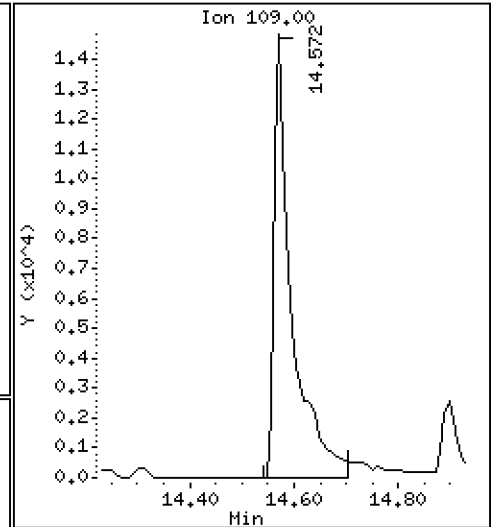
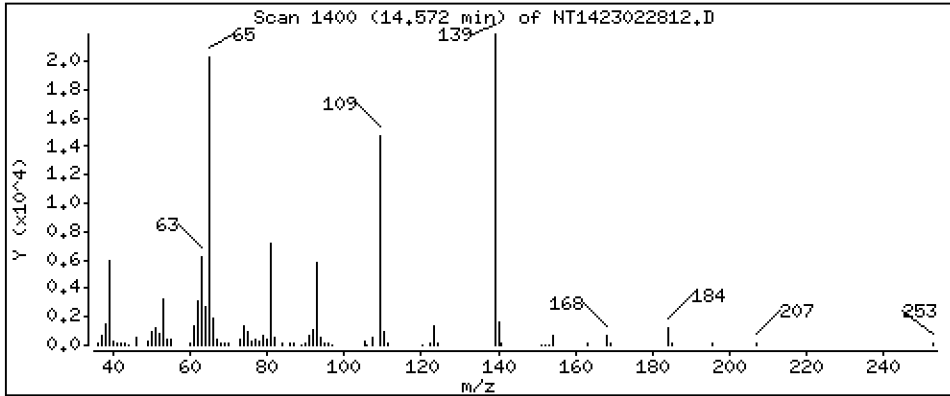
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 3,934 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

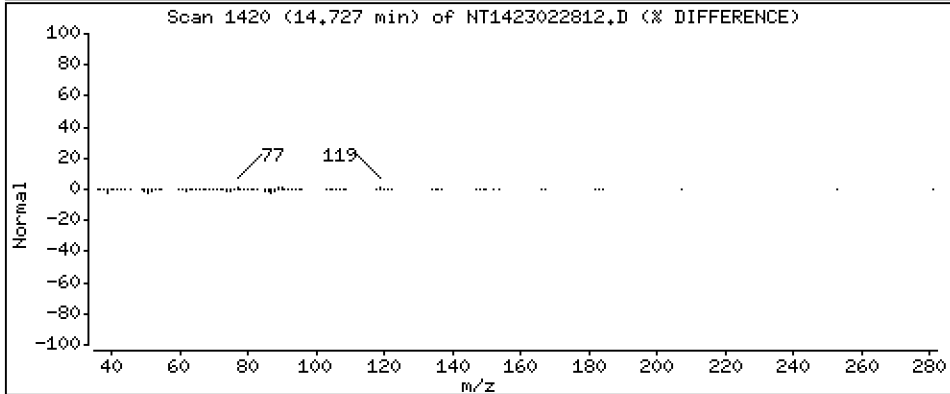
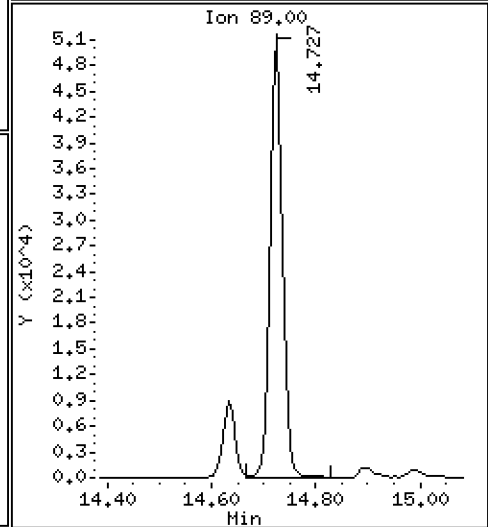
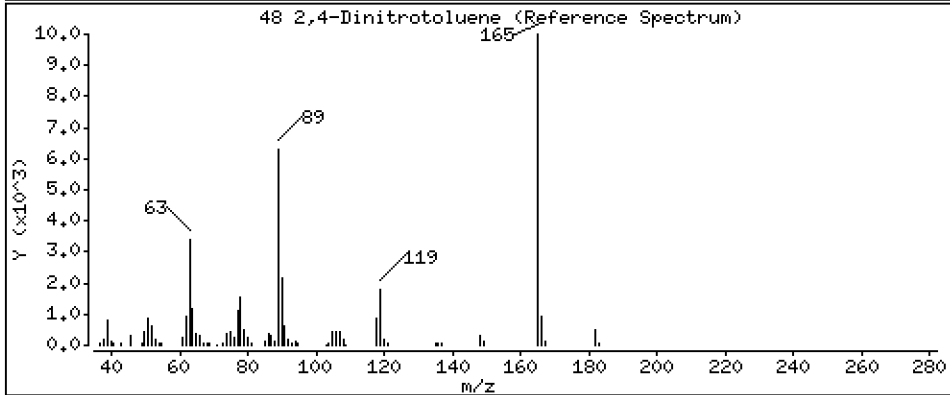
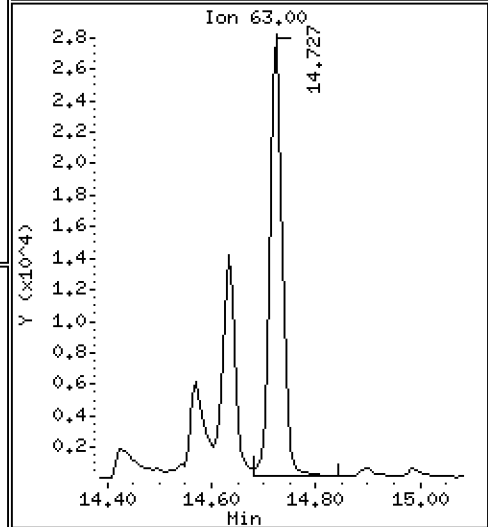
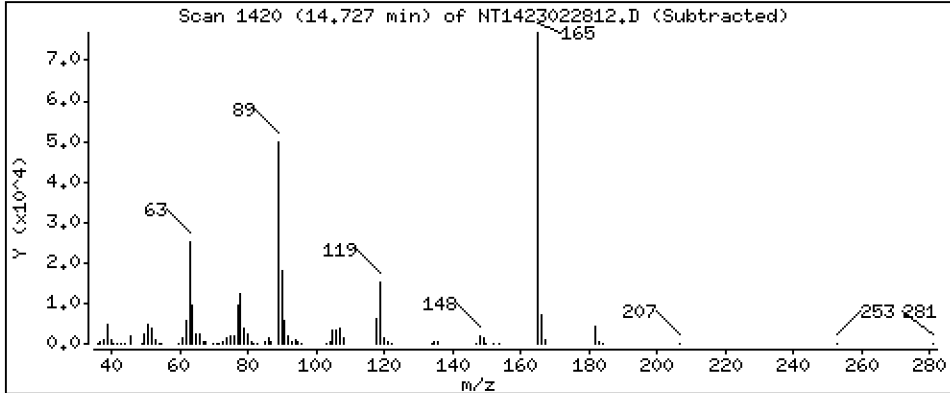
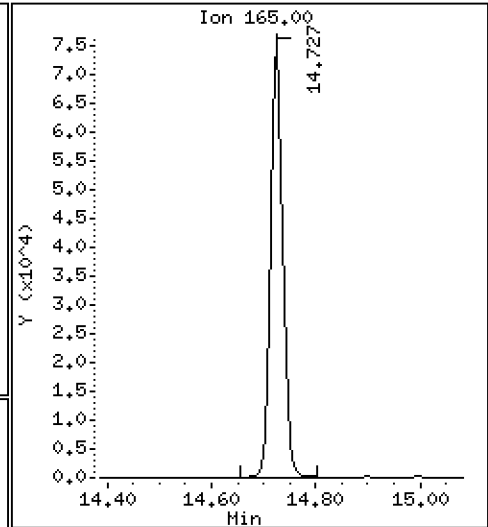
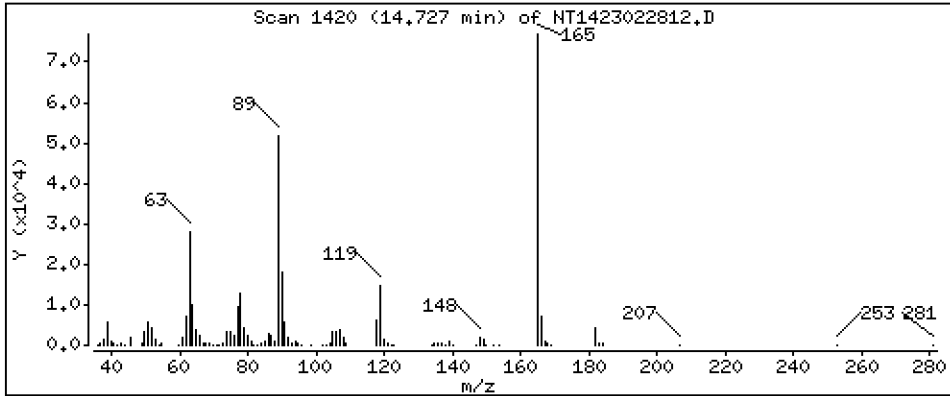
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 4,941 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

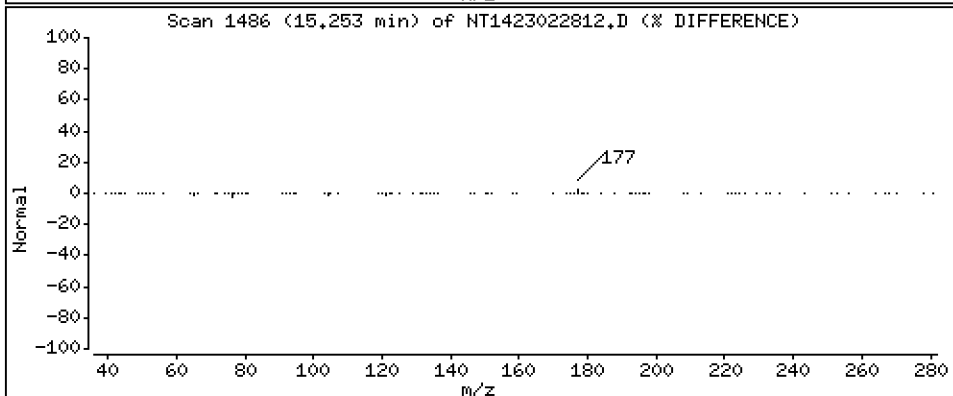
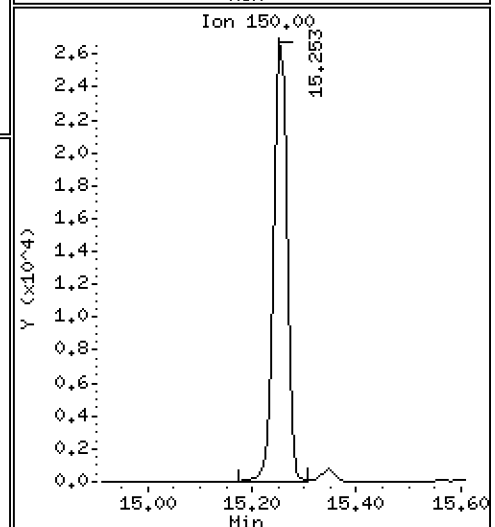
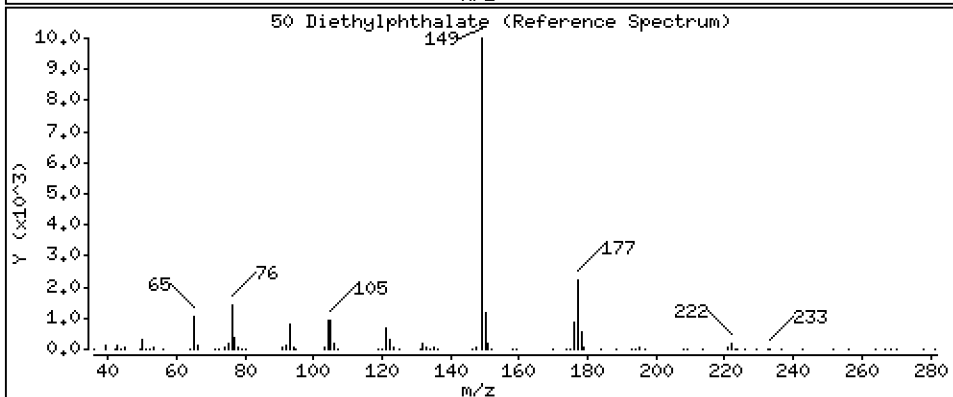
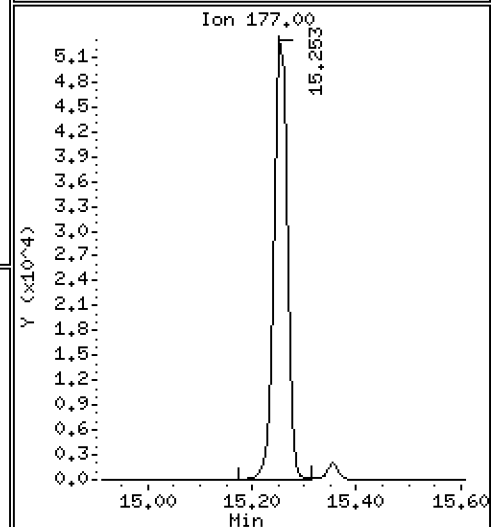
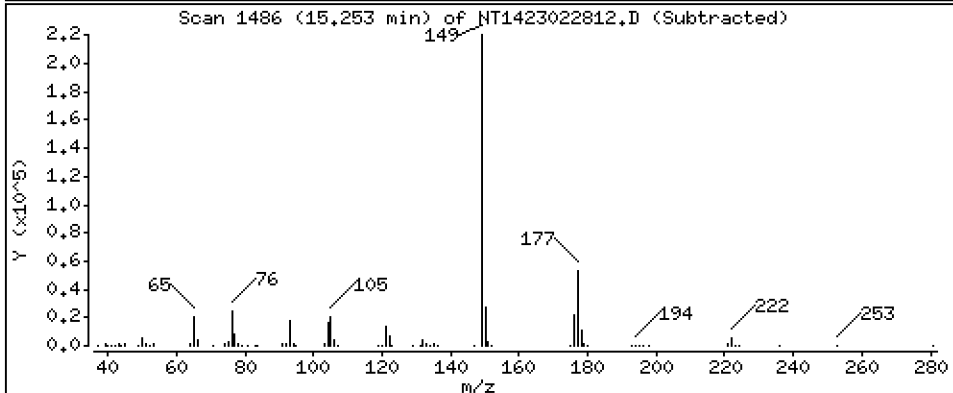
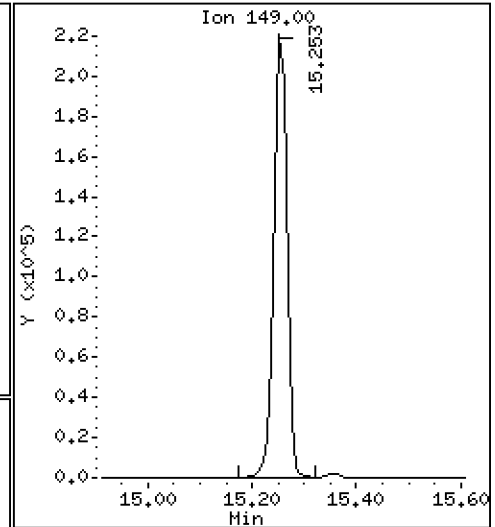
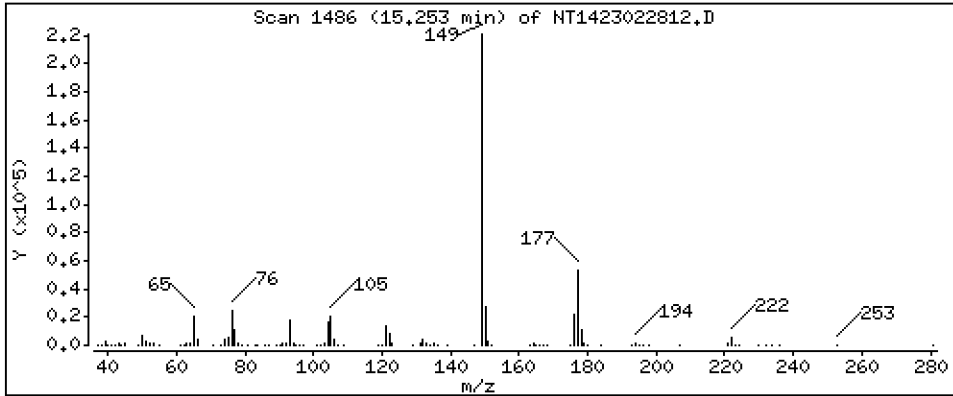
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,420 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

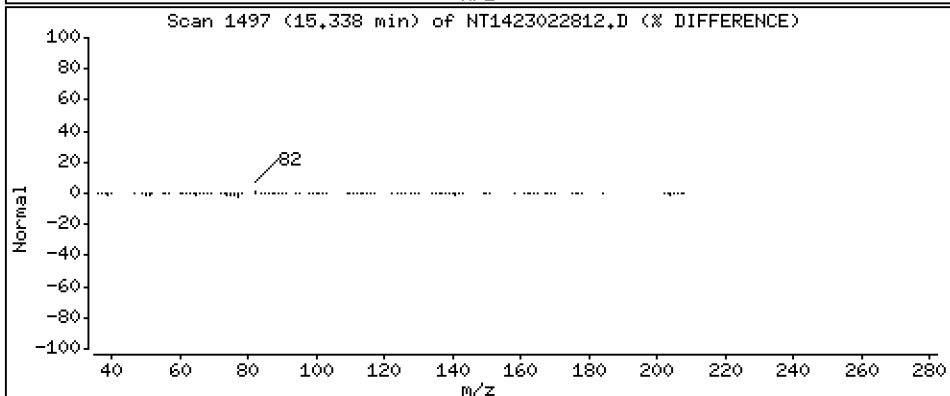
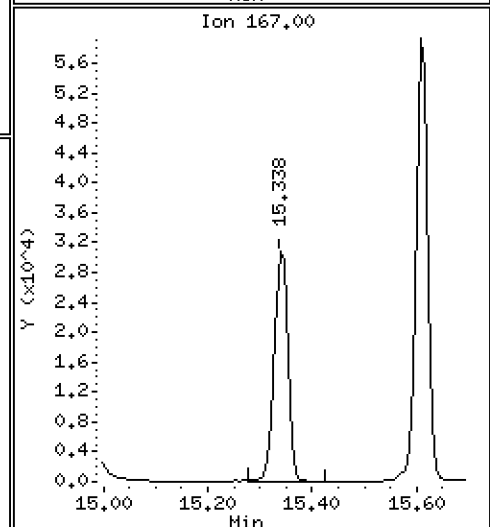
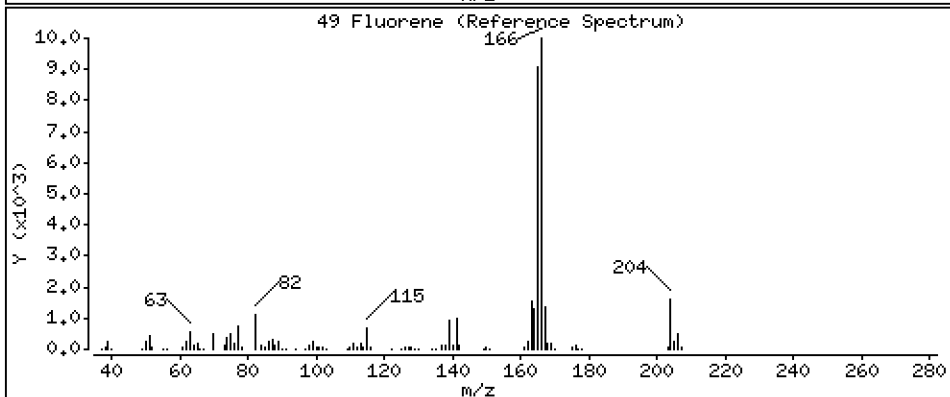
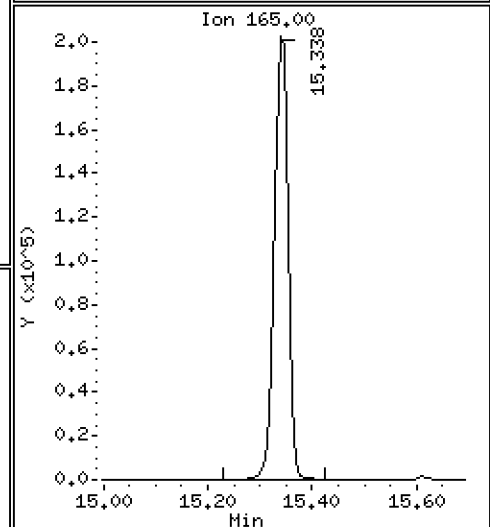
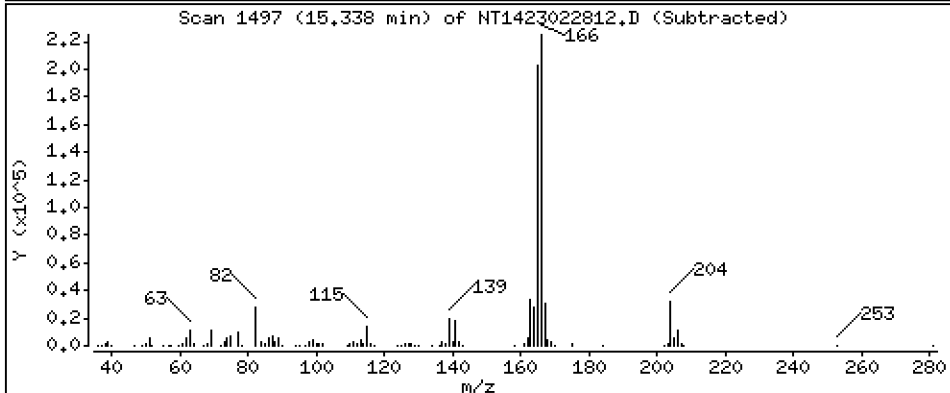
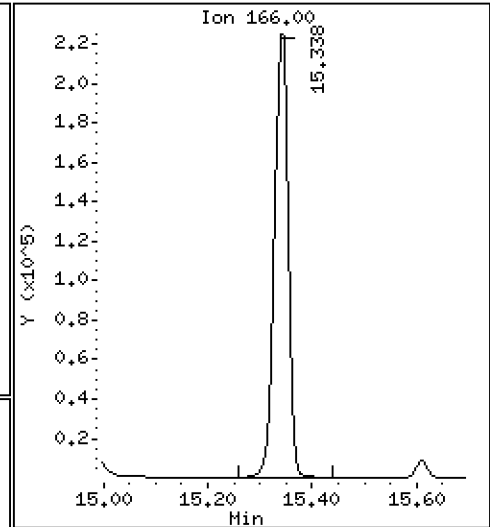
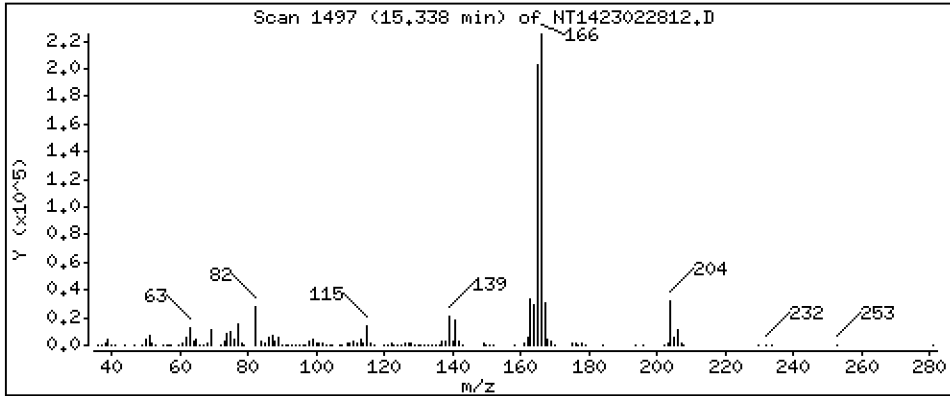
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,793 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

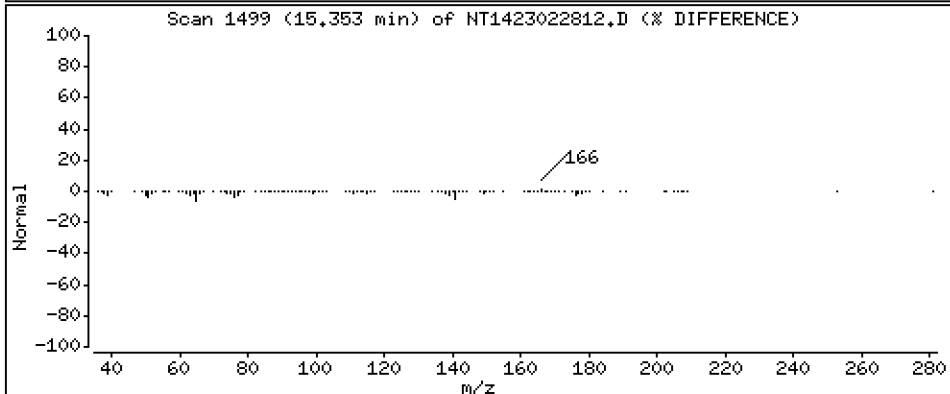
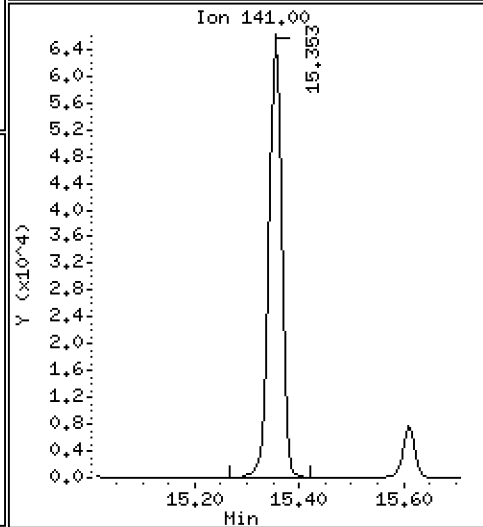
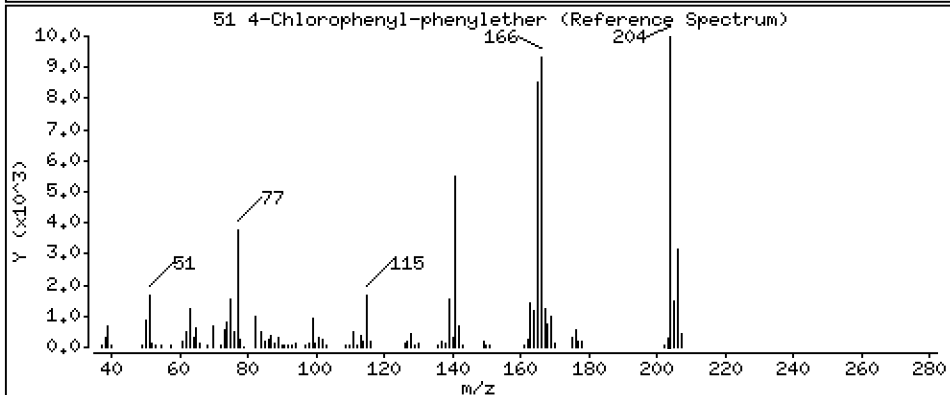
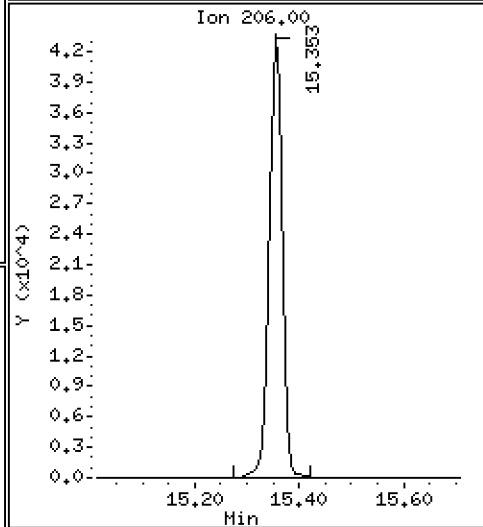
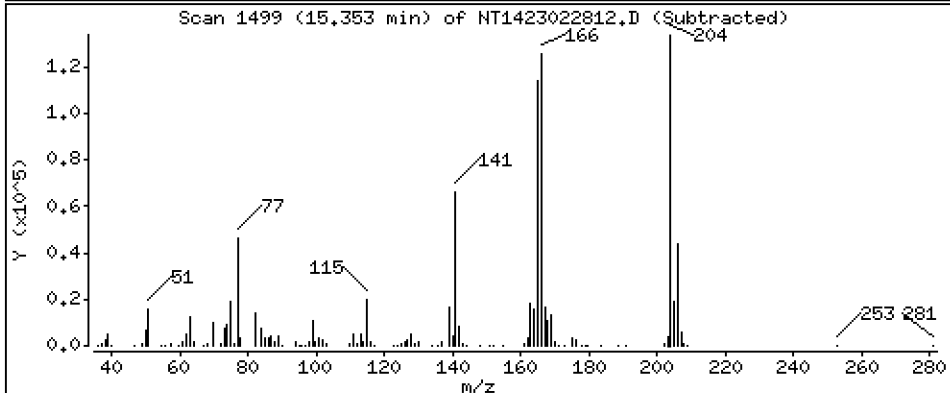
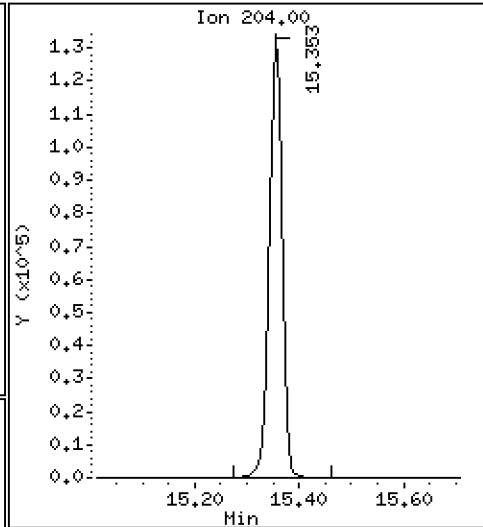
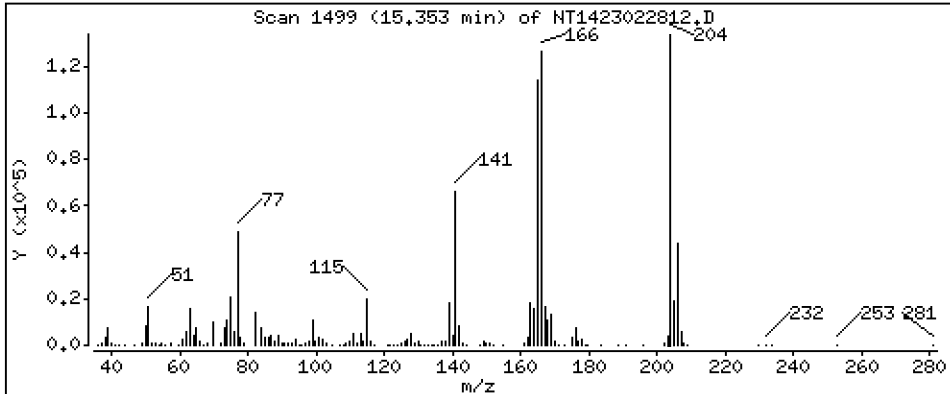
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,884 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

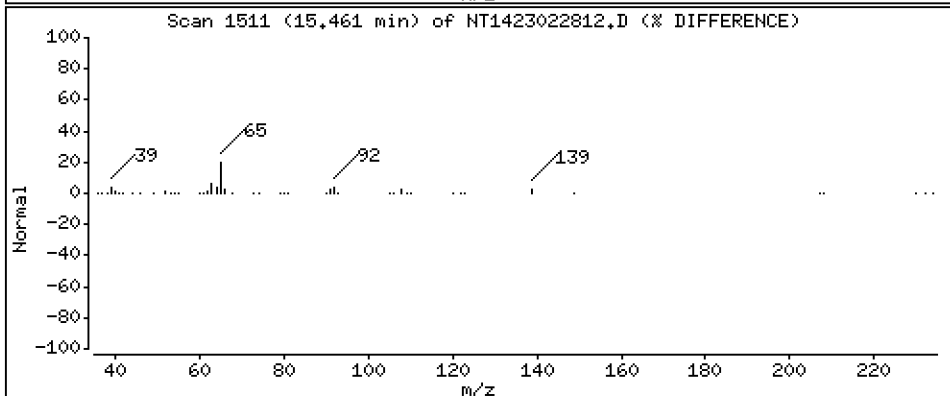
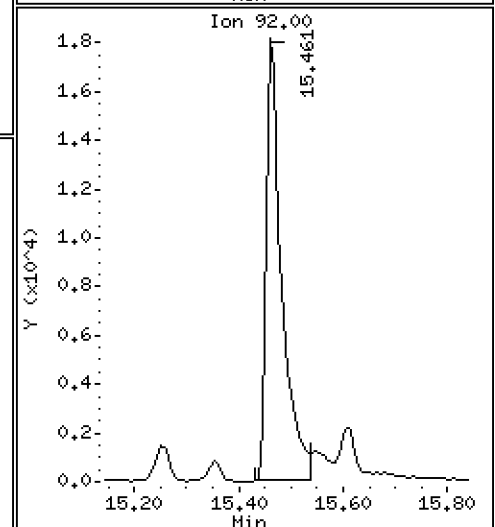
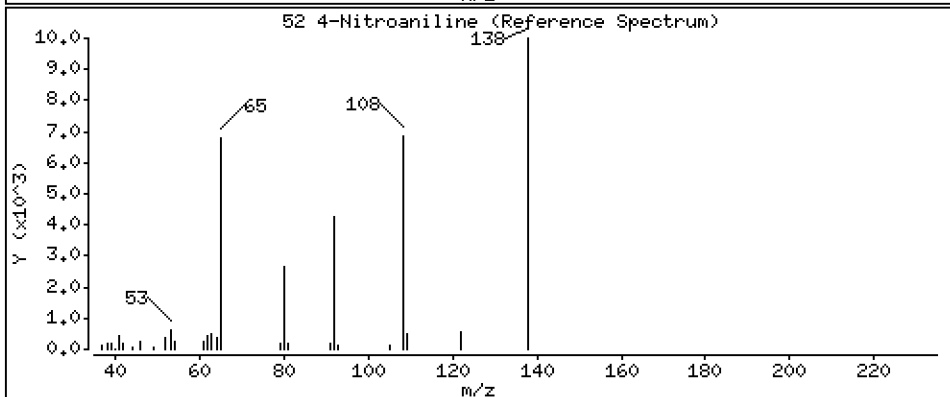
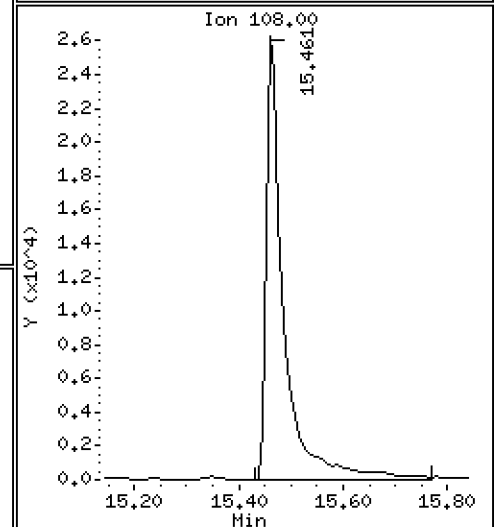
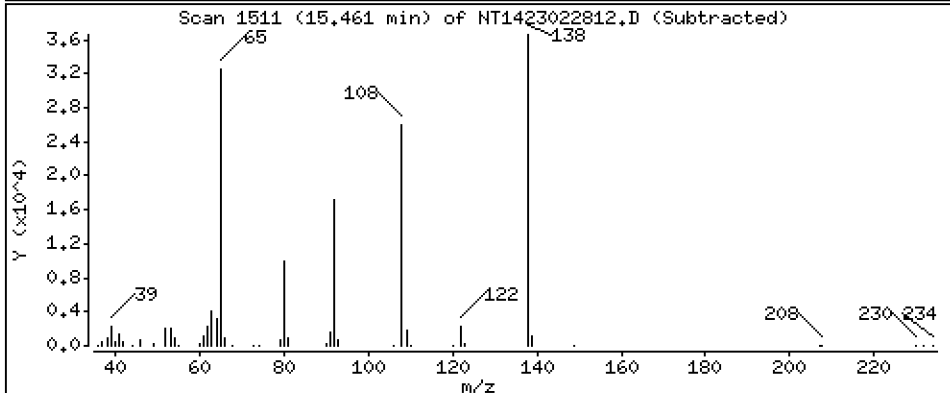
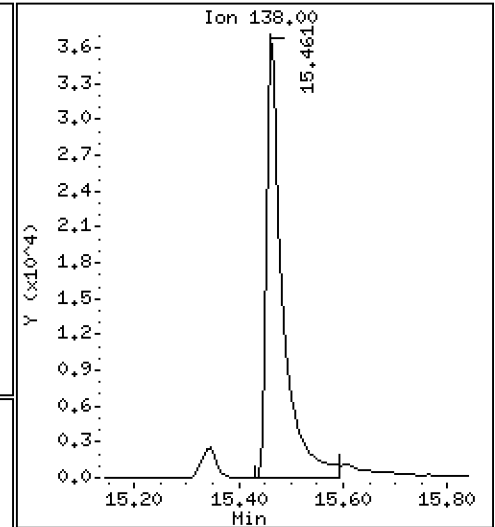
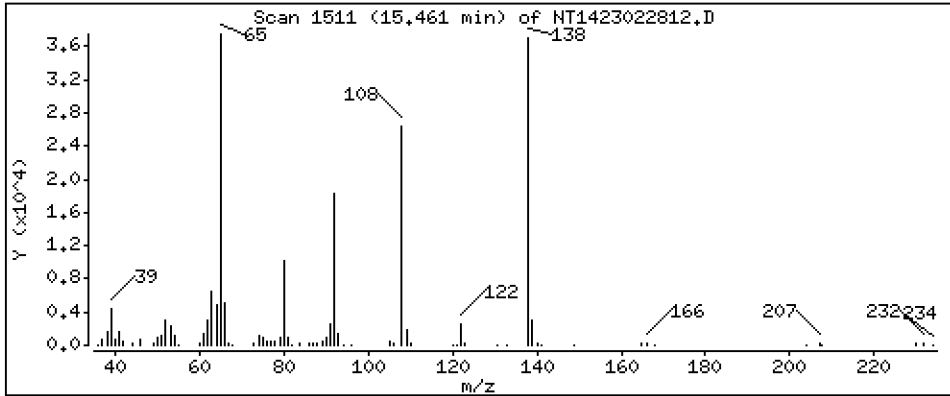
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 4,560 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

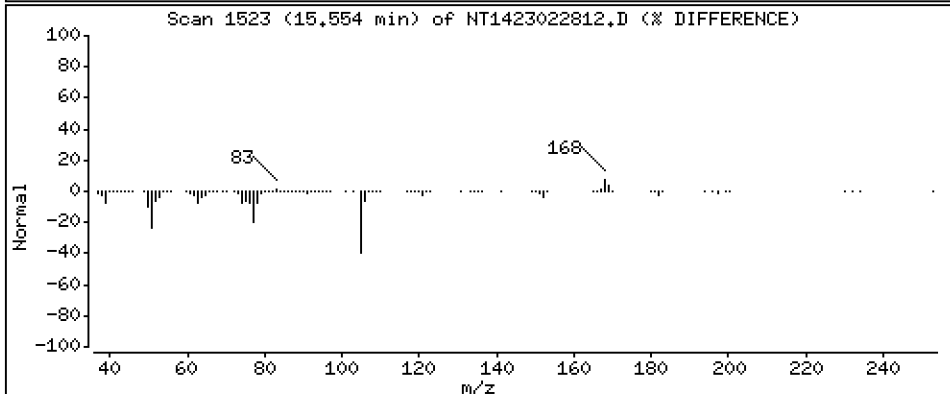
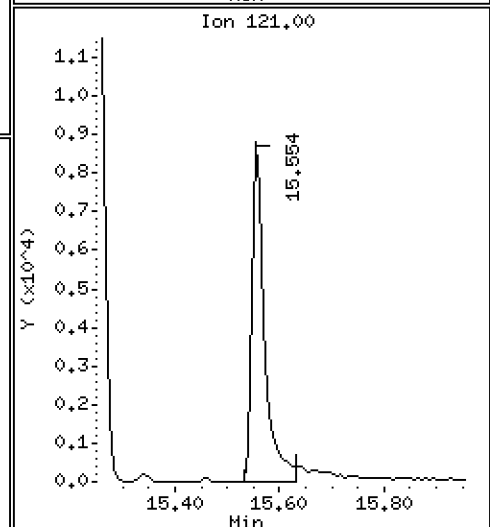
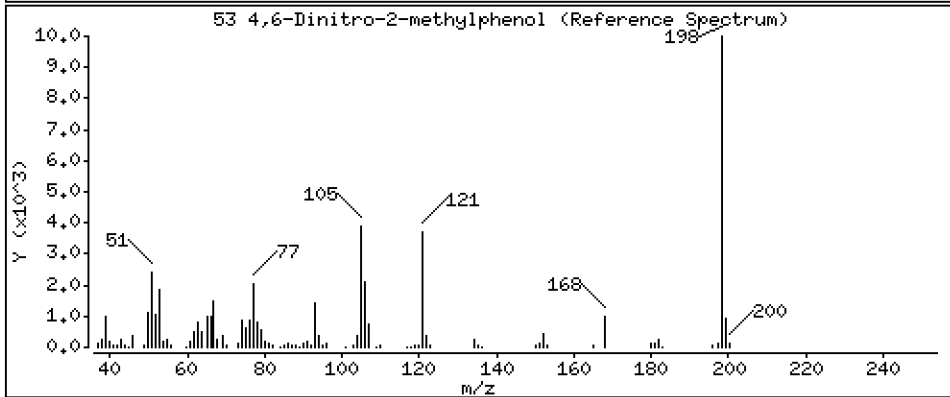
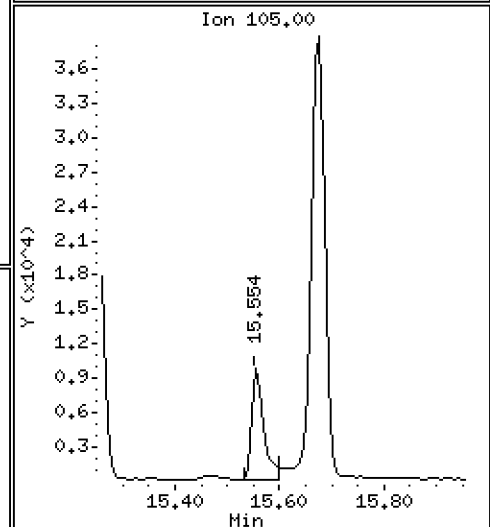
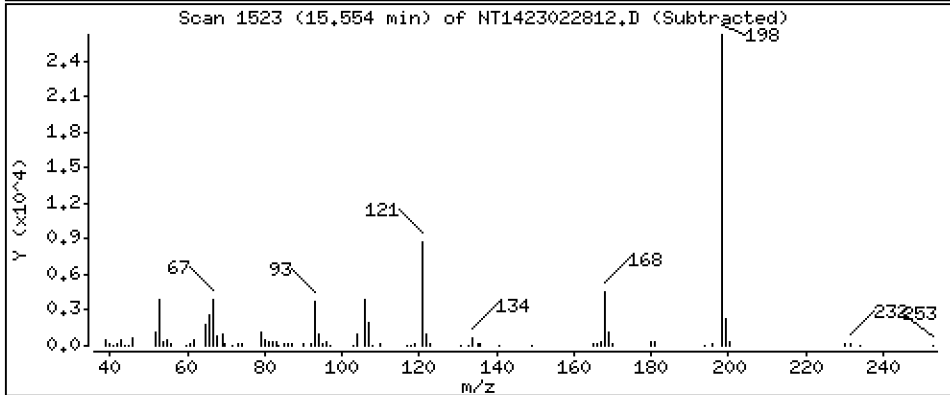
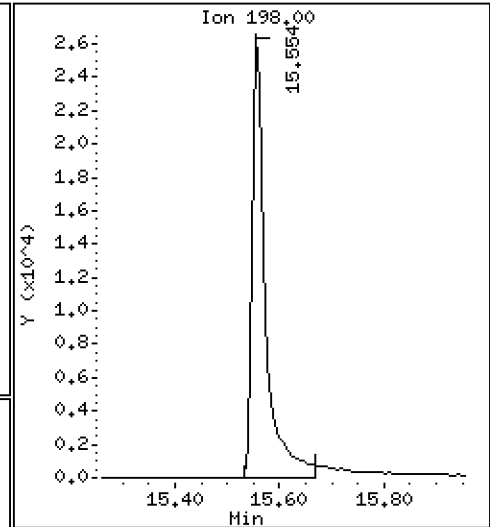
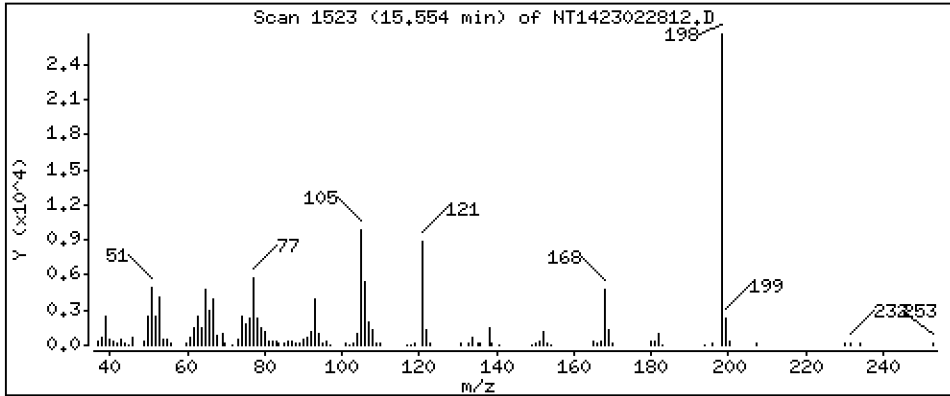
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 3,234 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

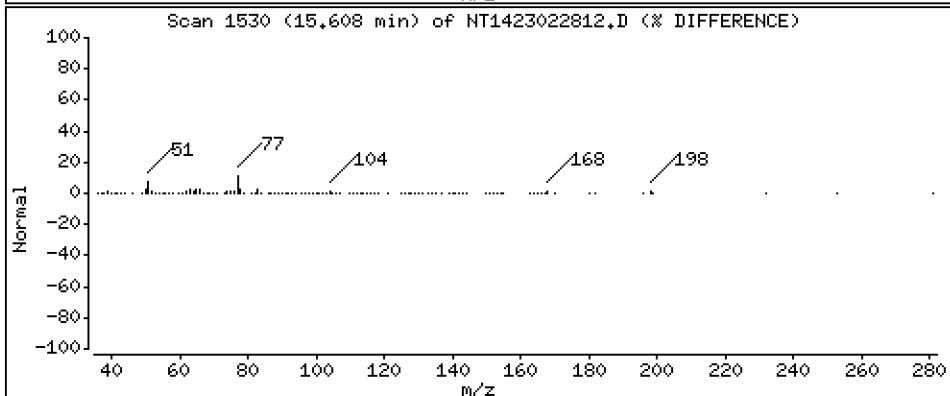
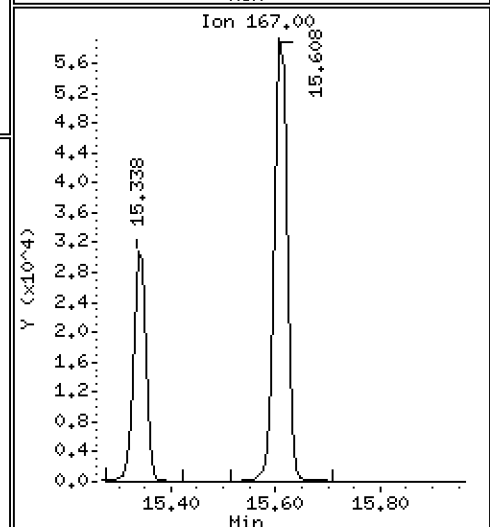
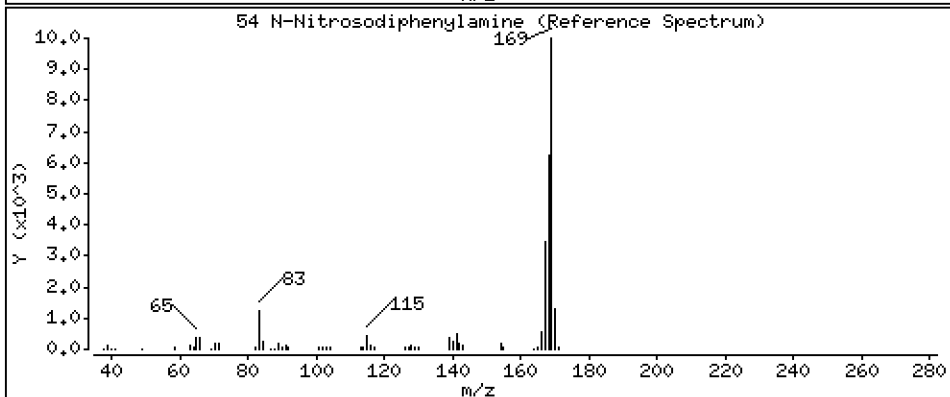
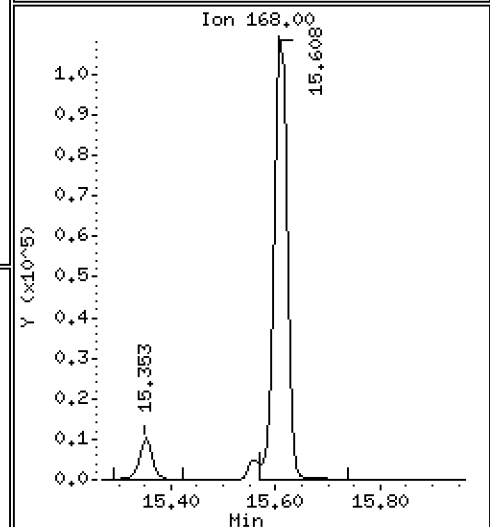
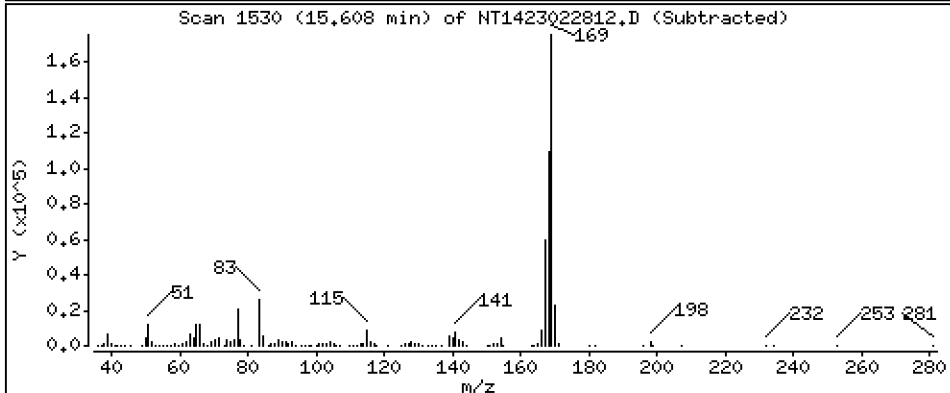
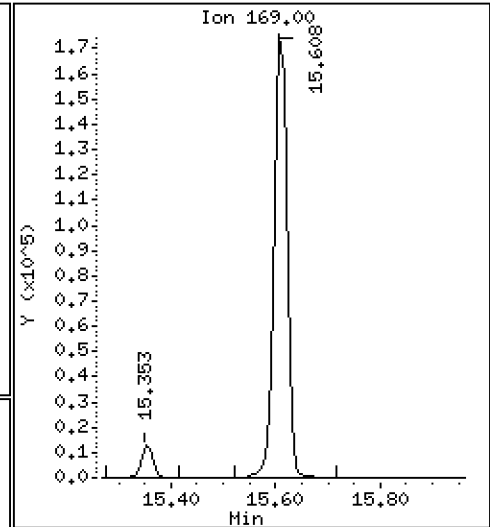
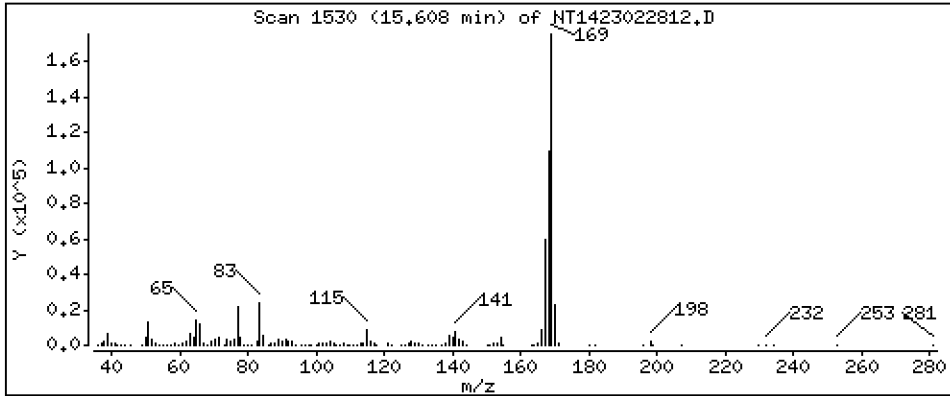
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,980 ug/mL



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Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

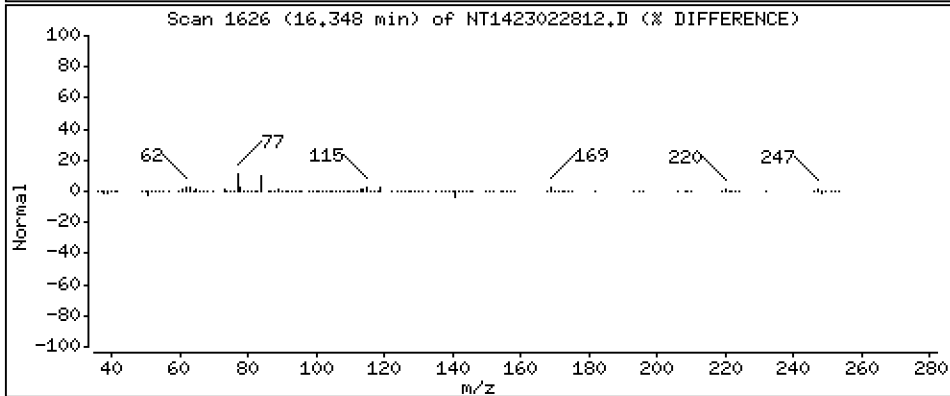
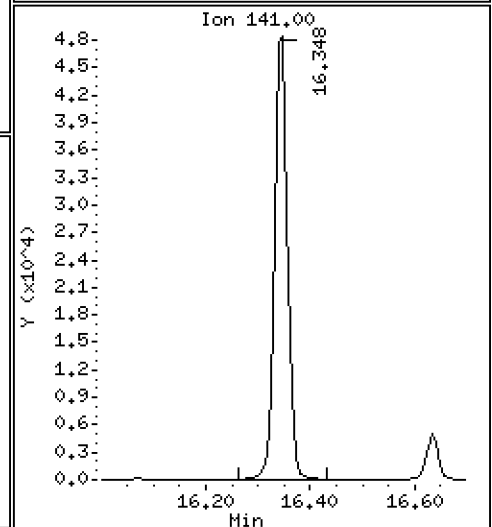
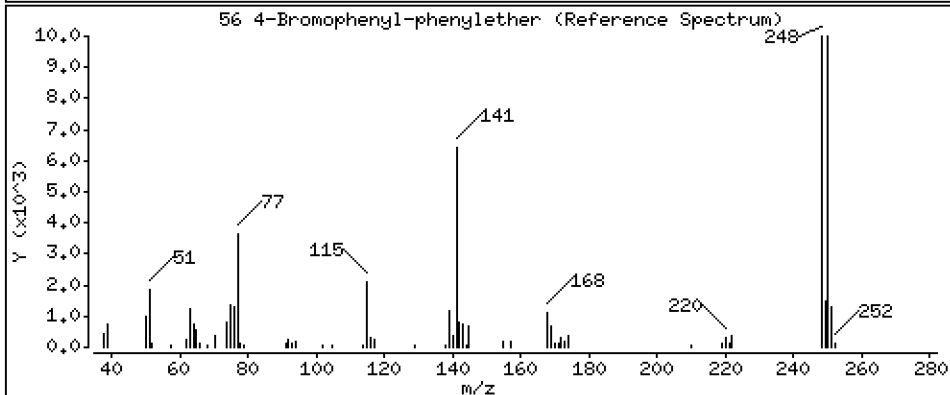
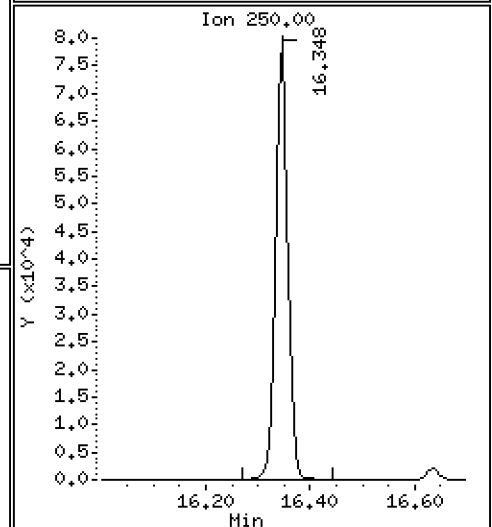
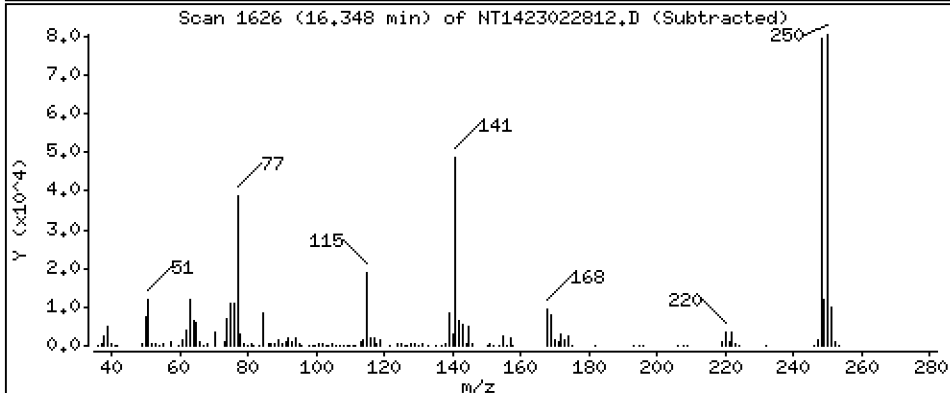
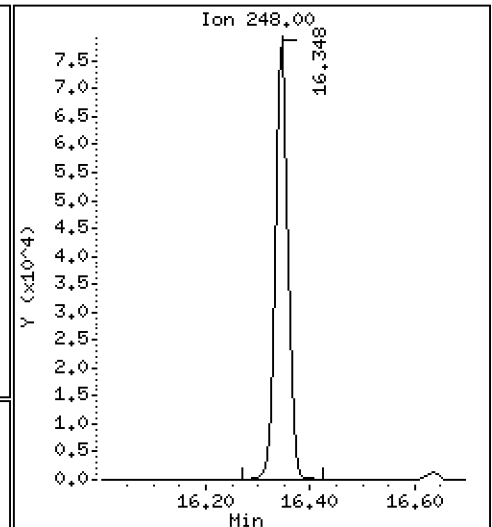
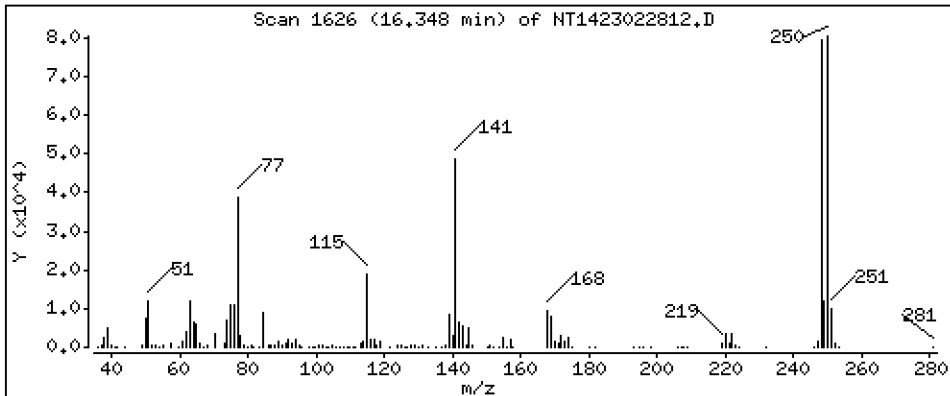
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,152 ug/mL



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Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

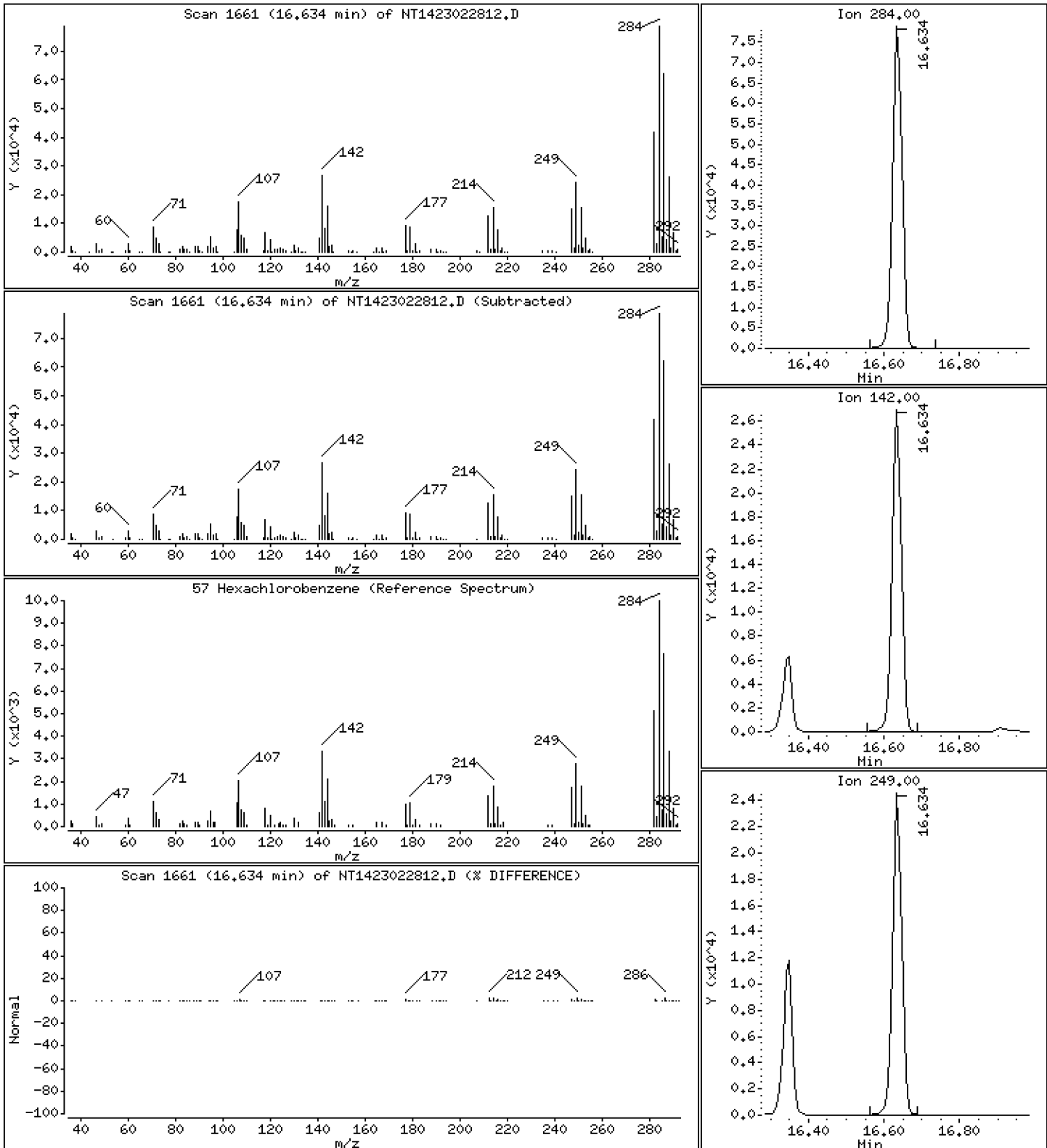
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 4.790 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

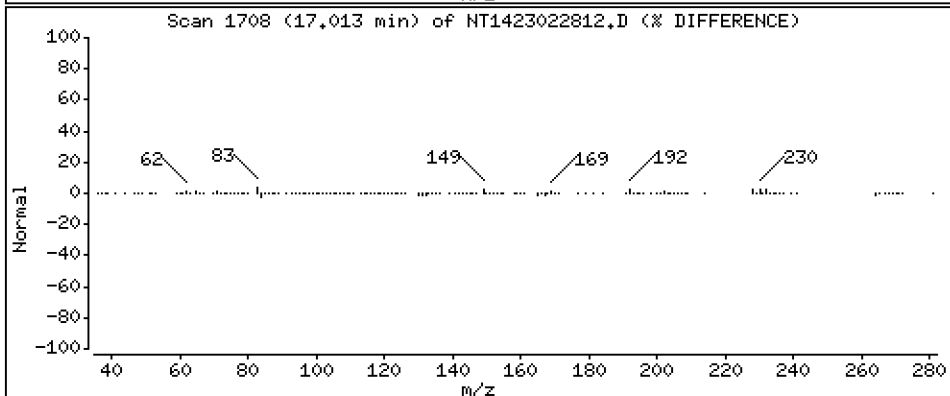
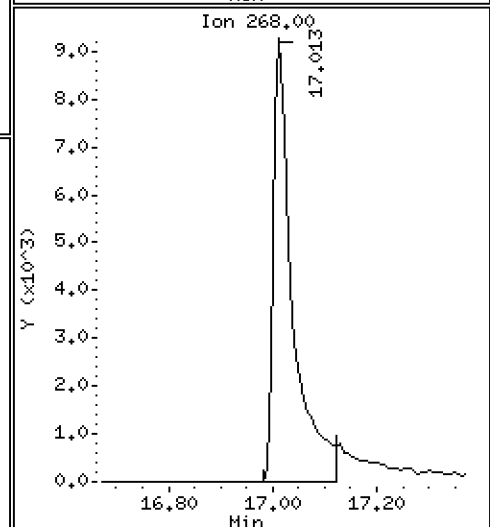
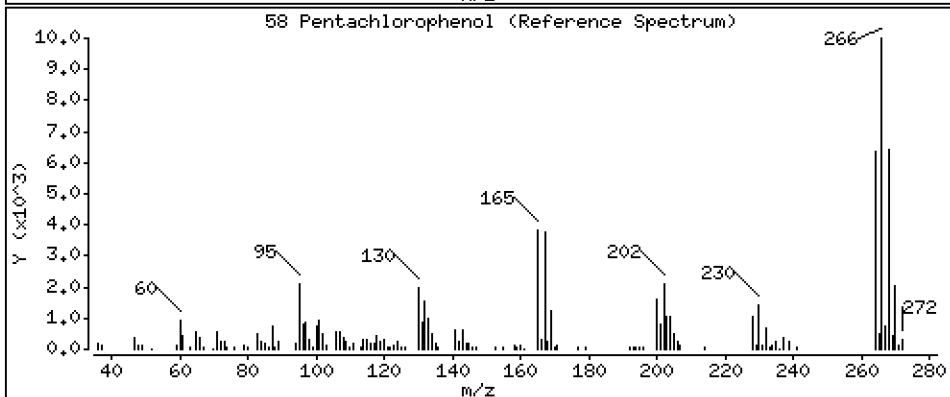
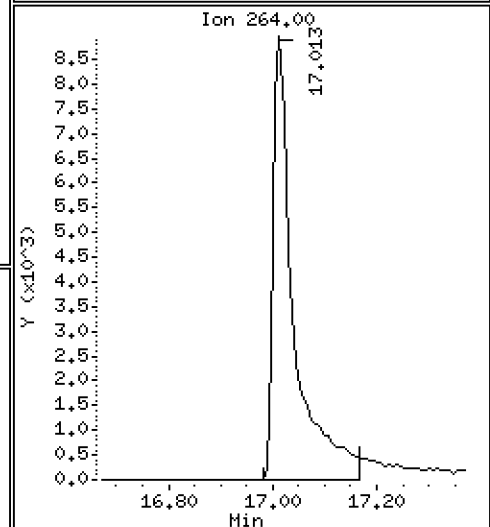
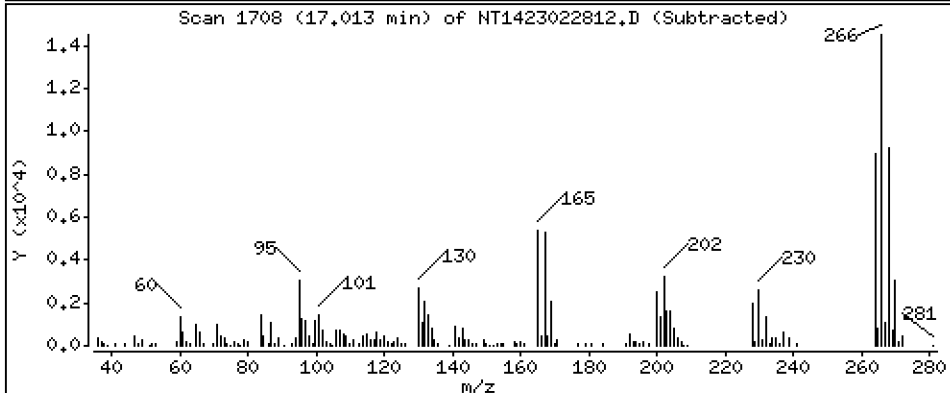
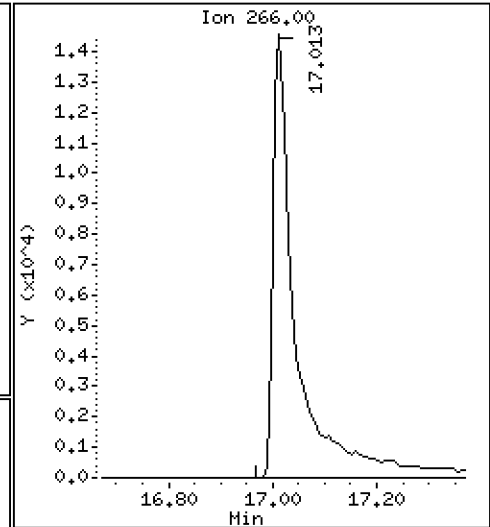
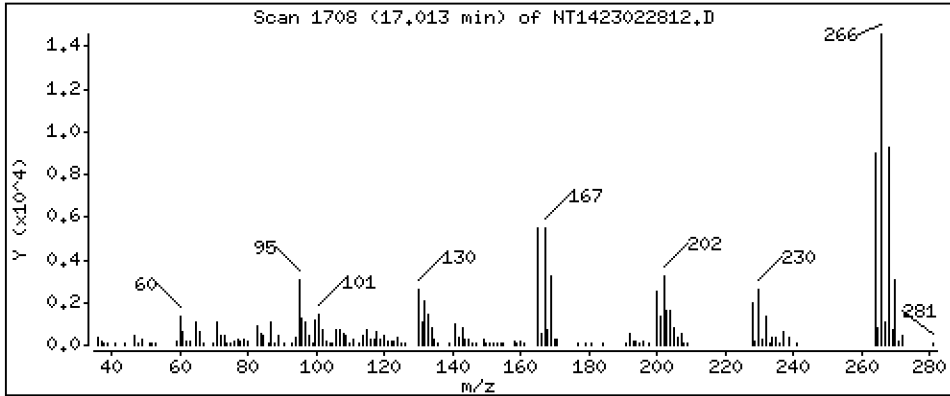
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 3,524 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

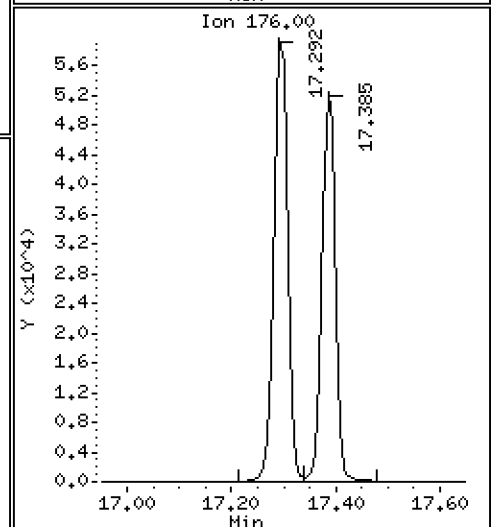
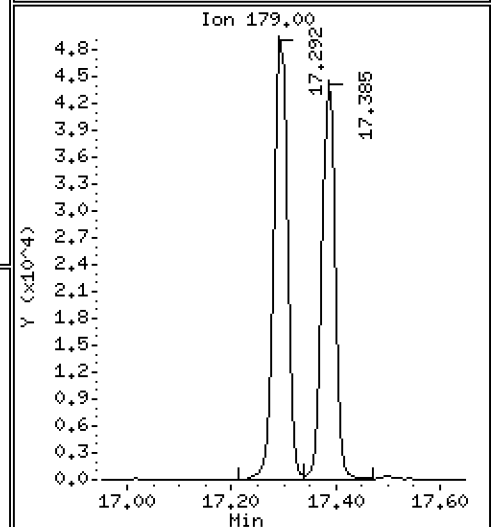
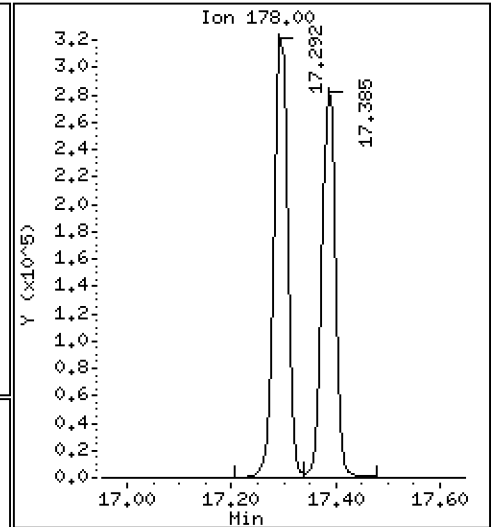
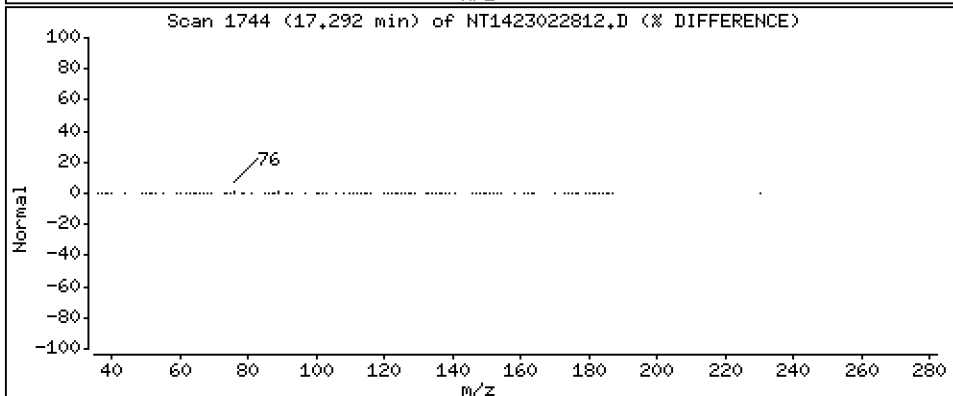
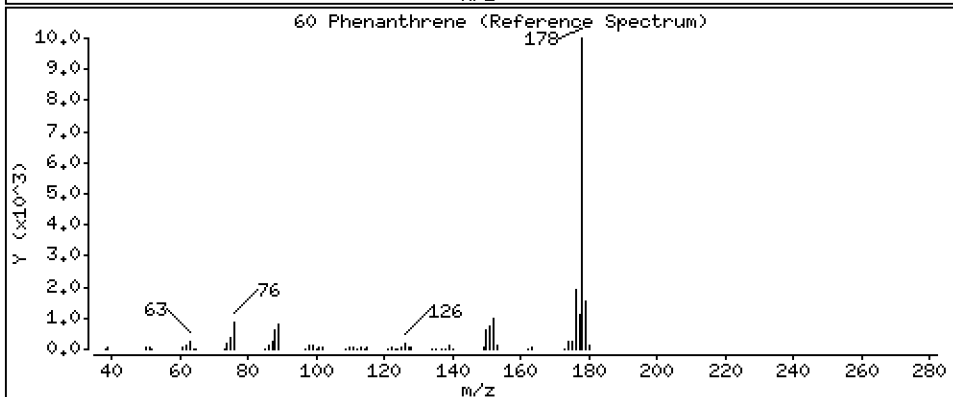
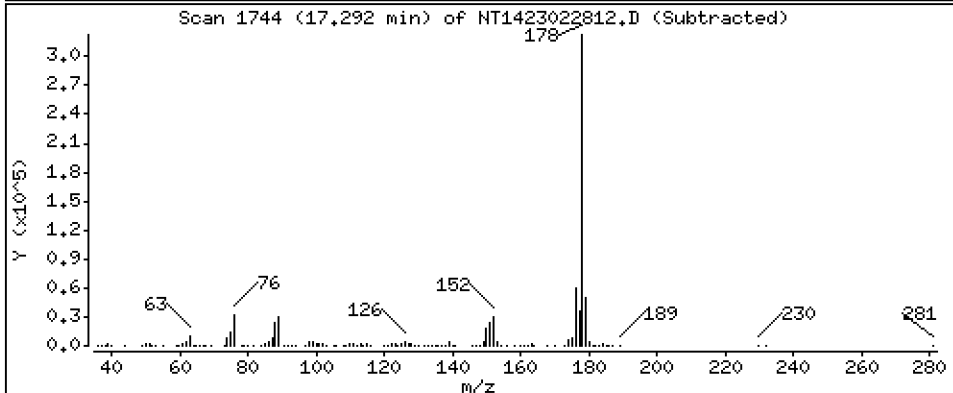
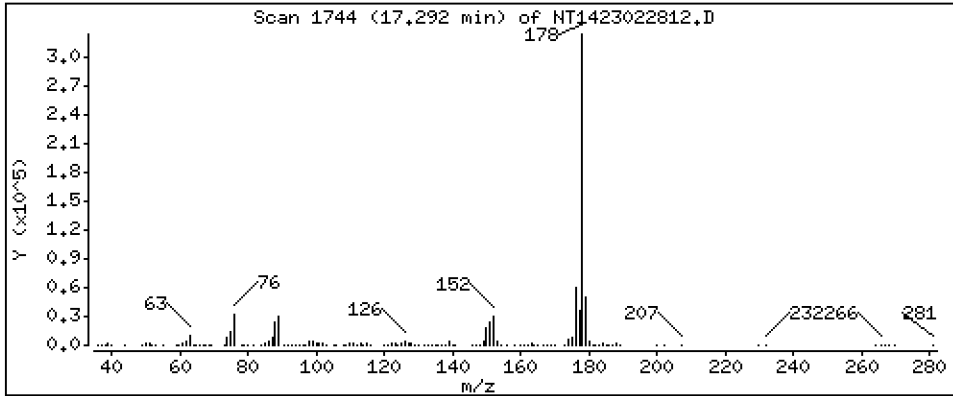
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,615 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

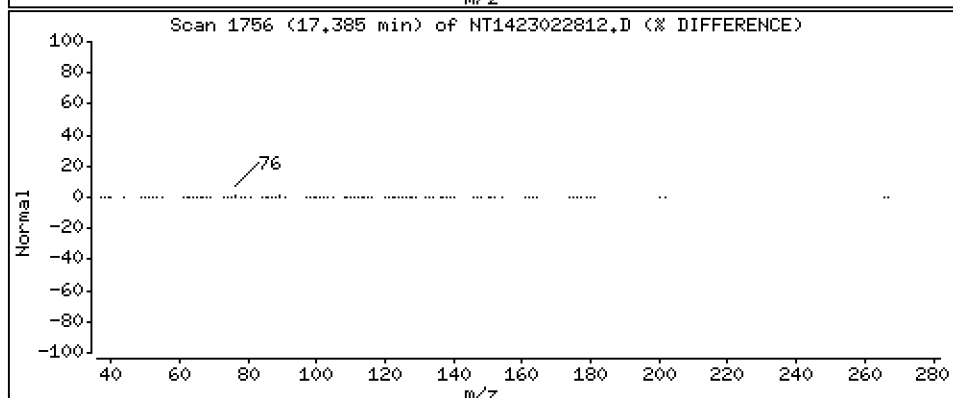
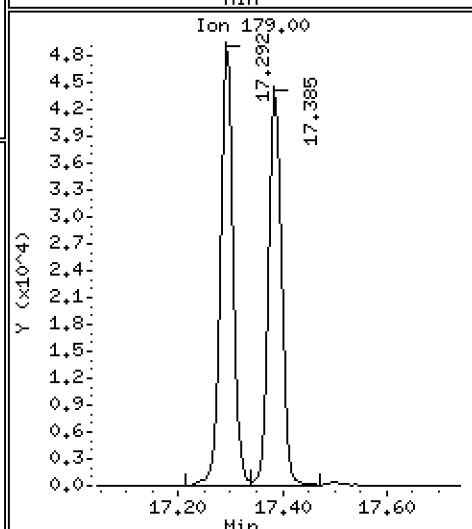
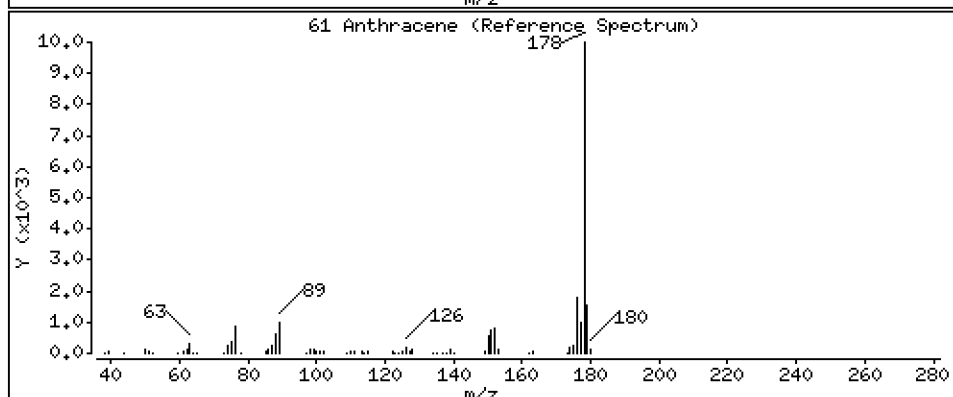
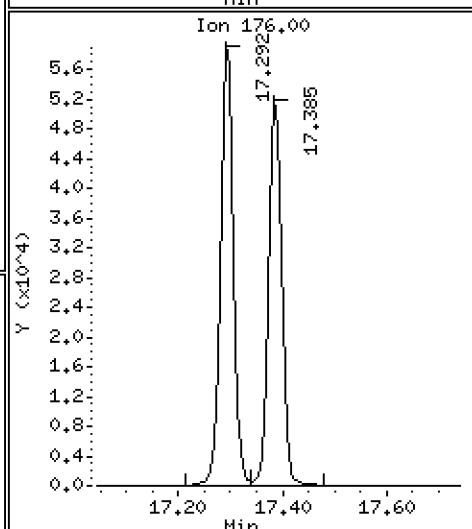
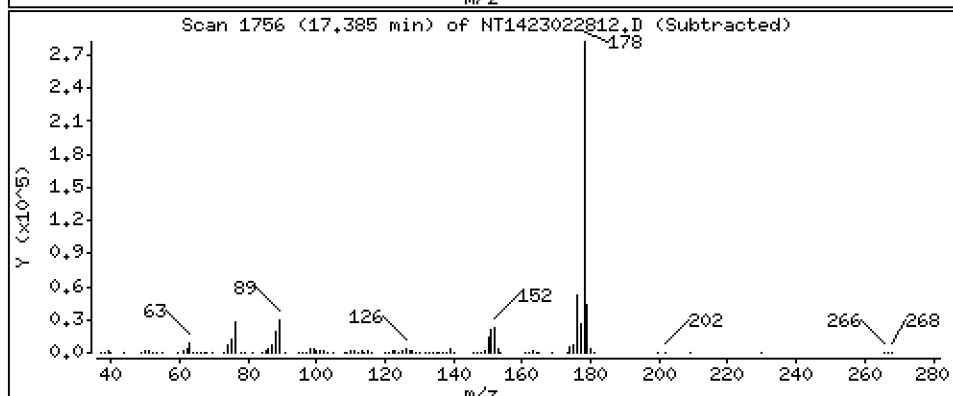
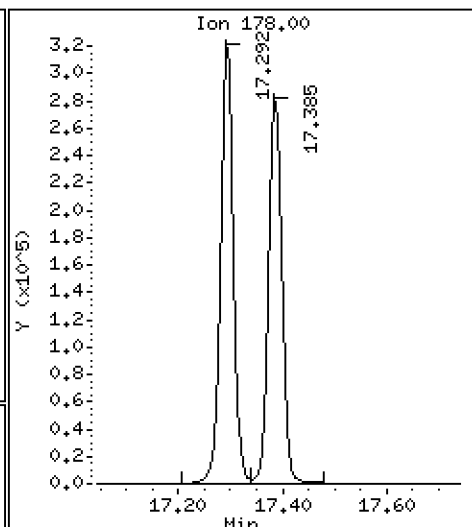
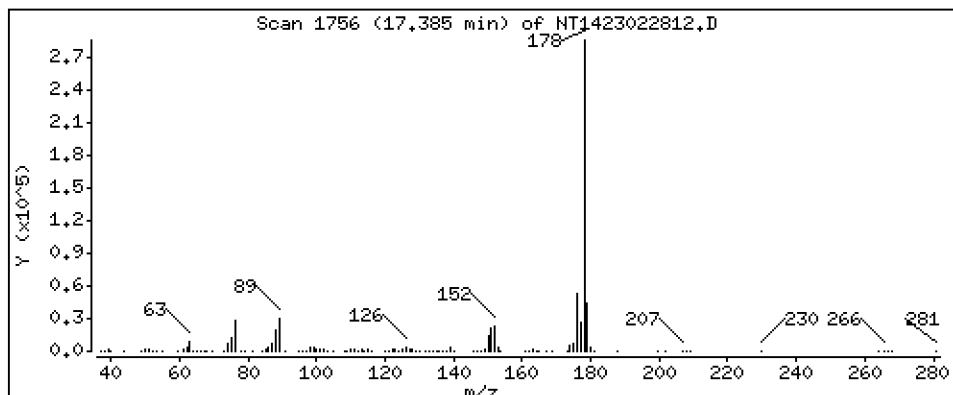
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,224 ug/mL



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Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

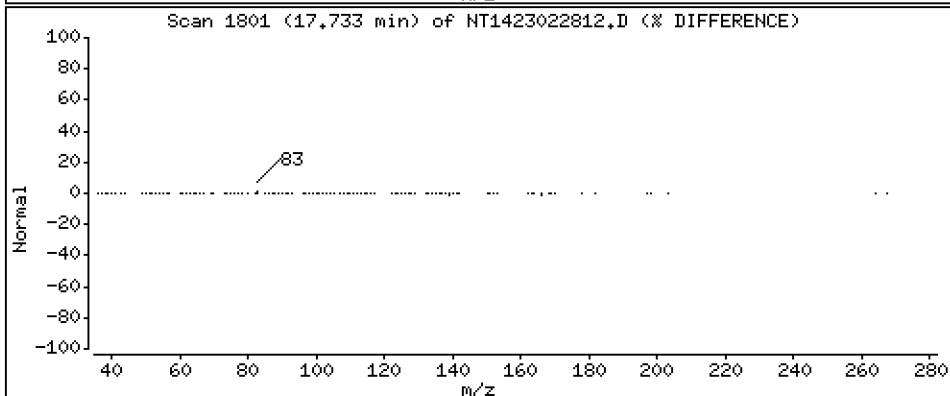
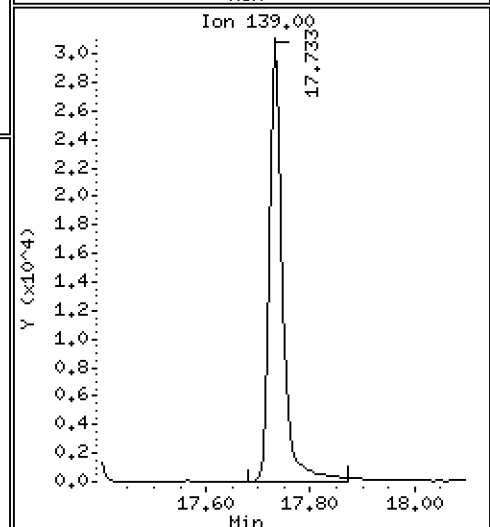
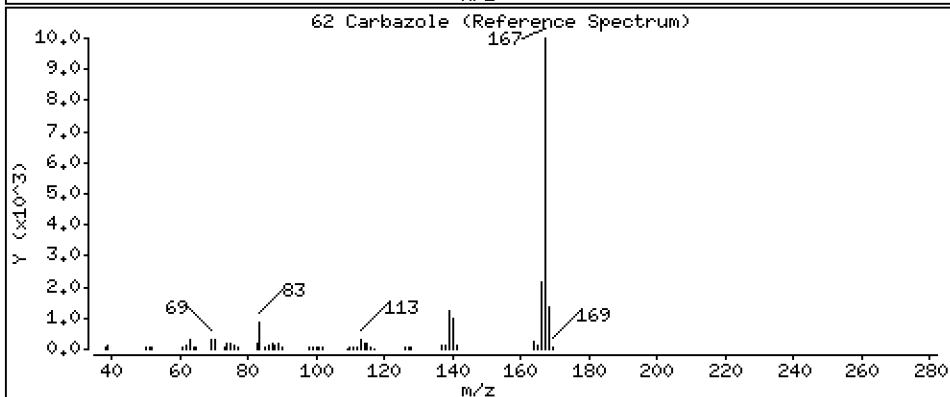
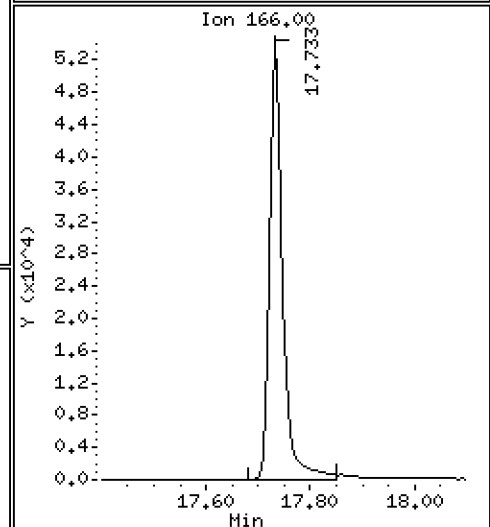
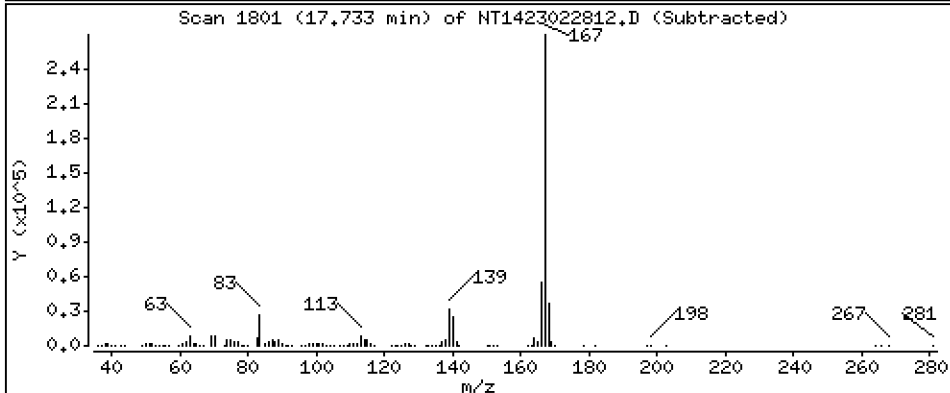
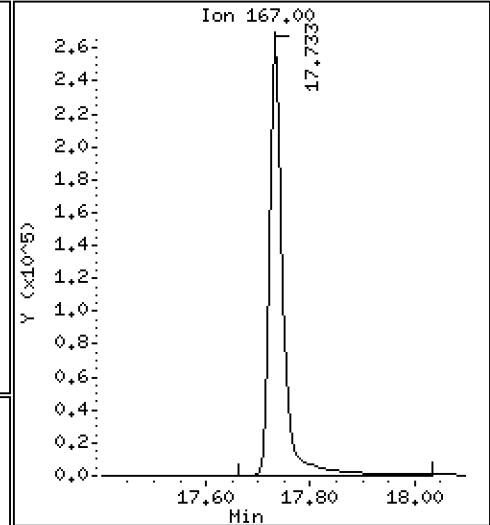
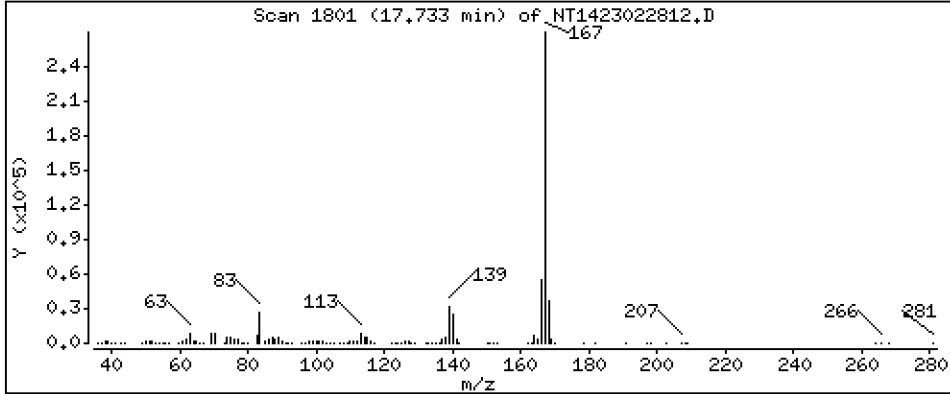
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,776 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

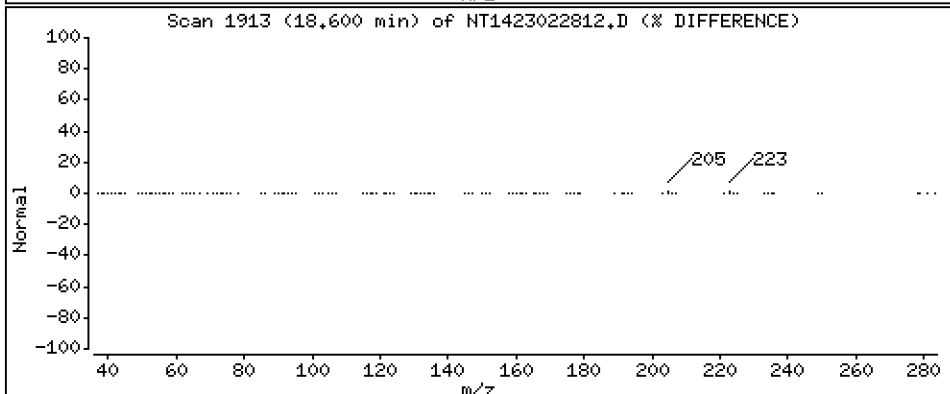
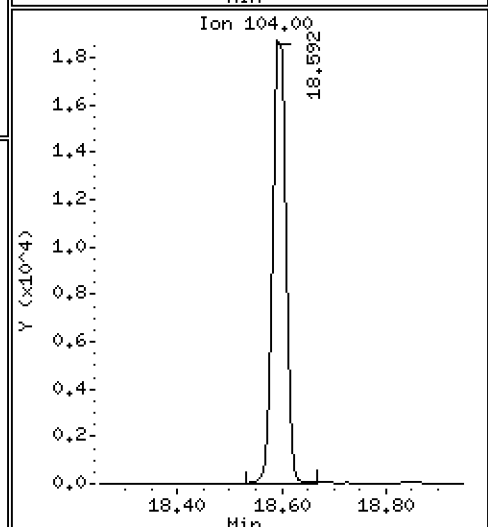
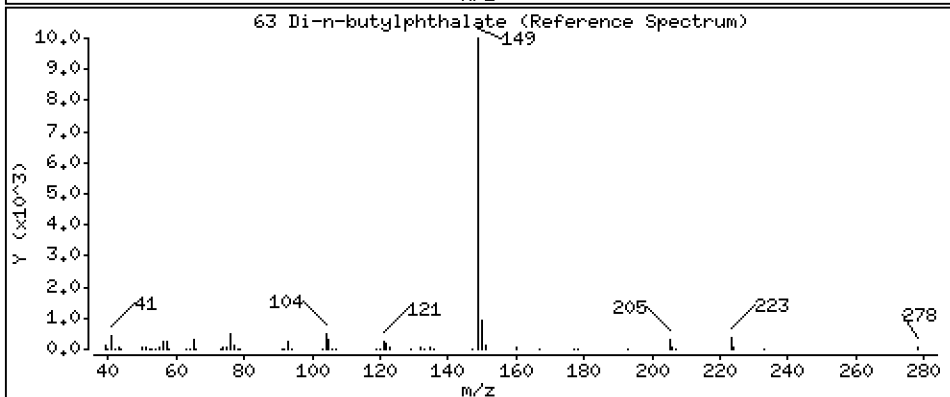
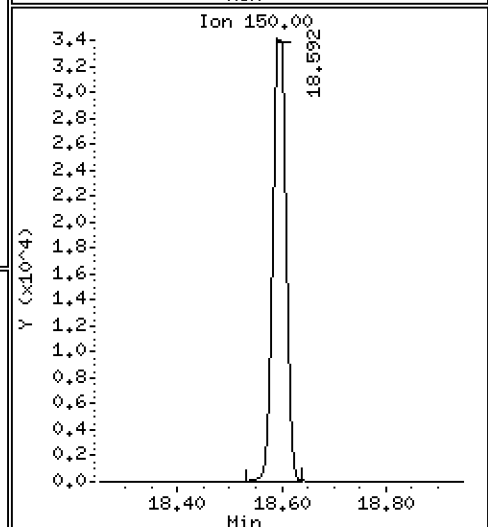
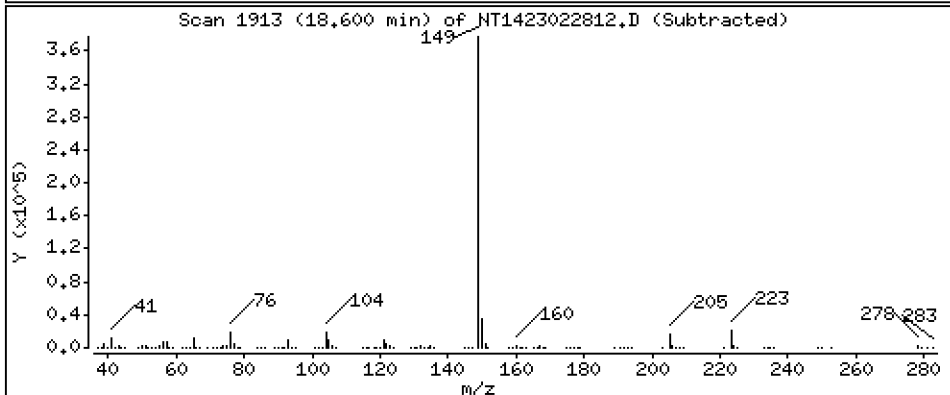
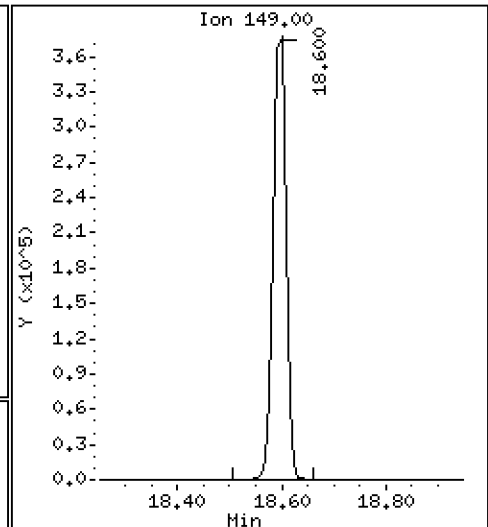
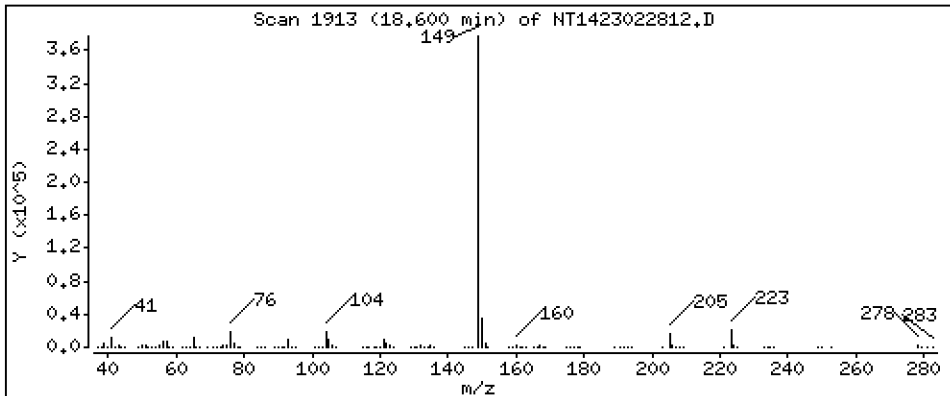
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,819 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

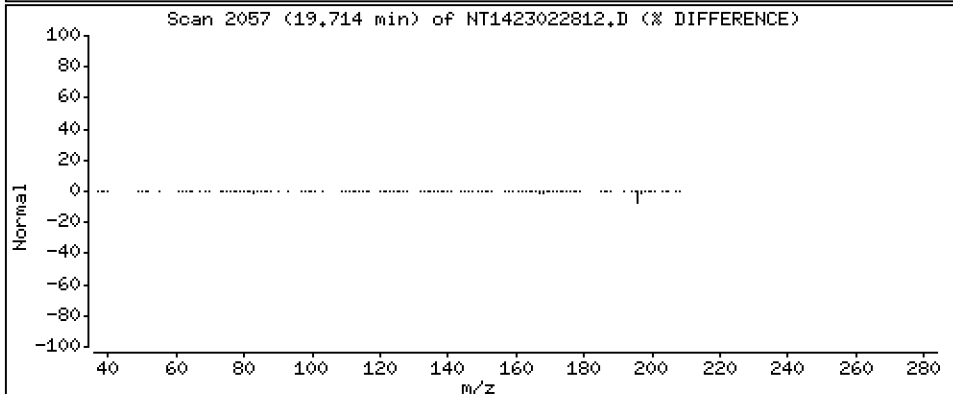
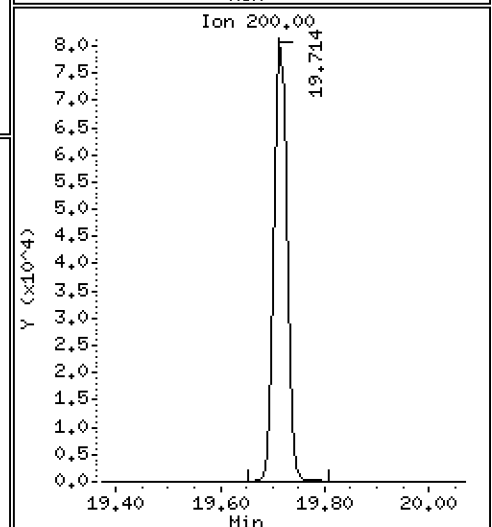
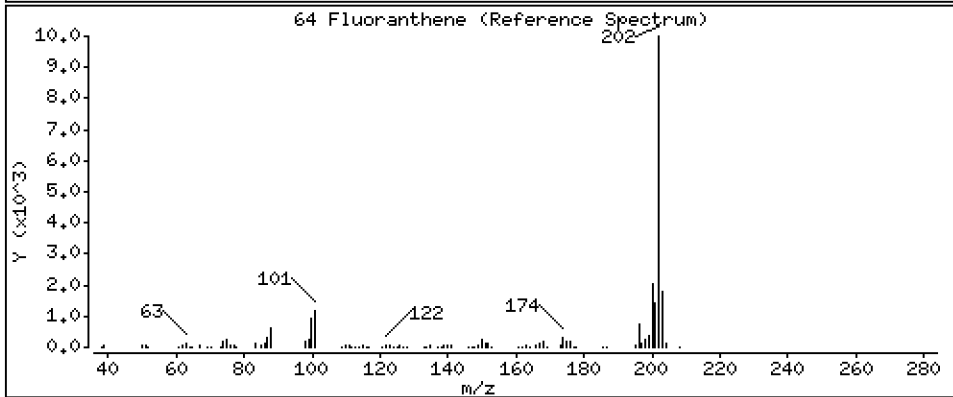
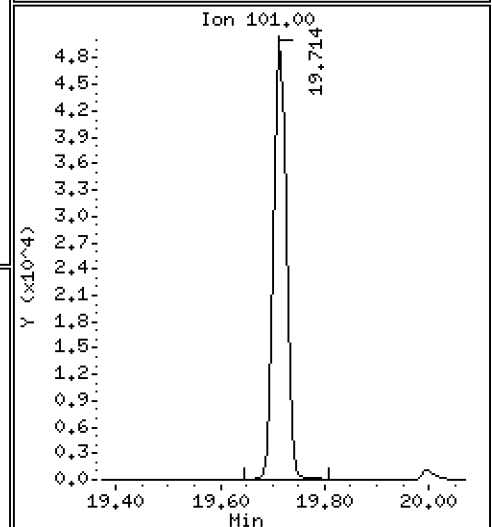
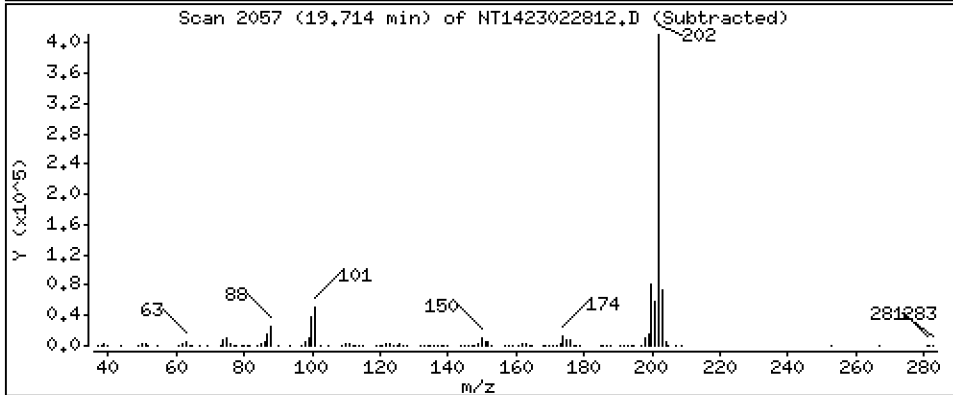
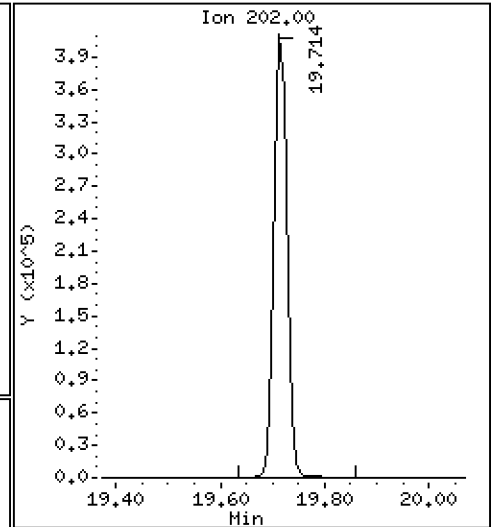
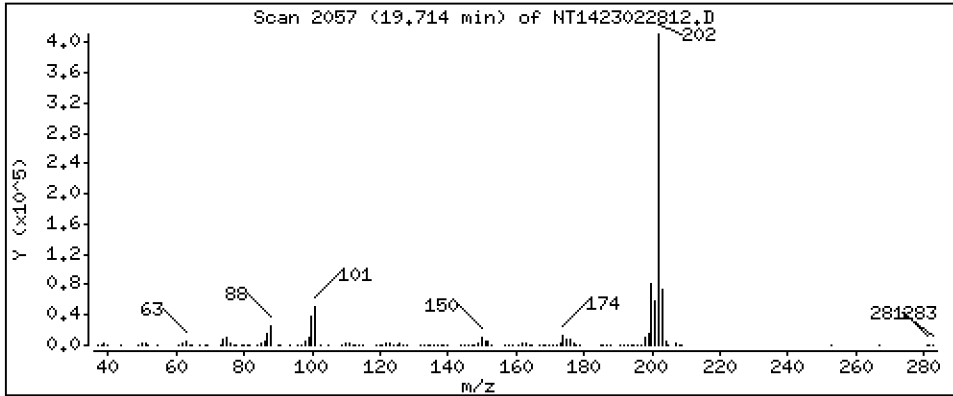
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 5,104 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

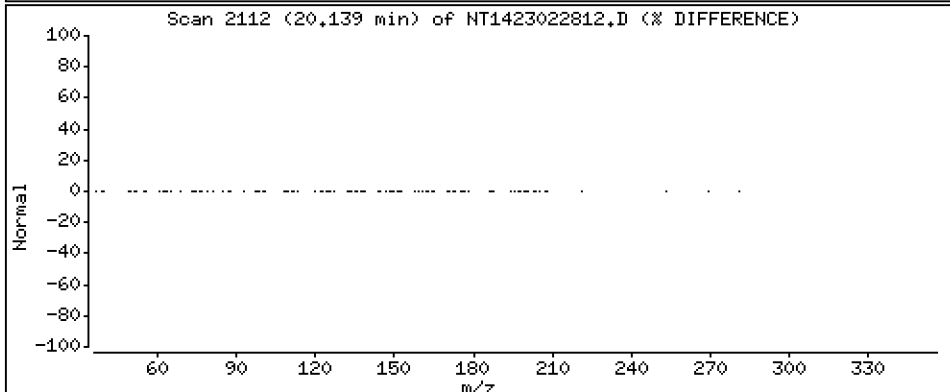
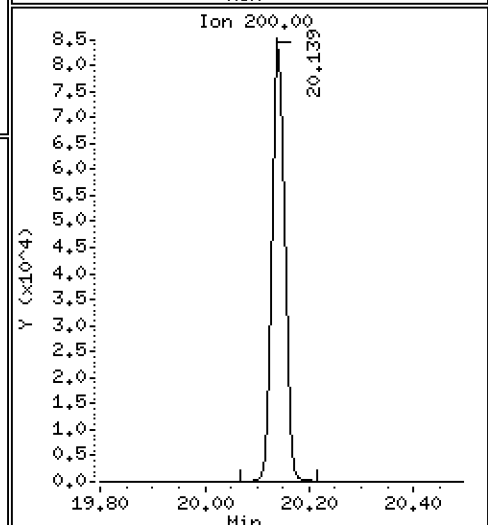
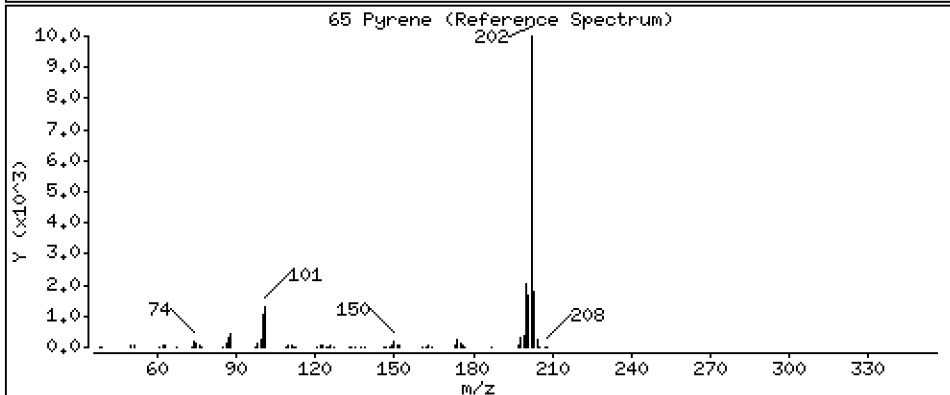
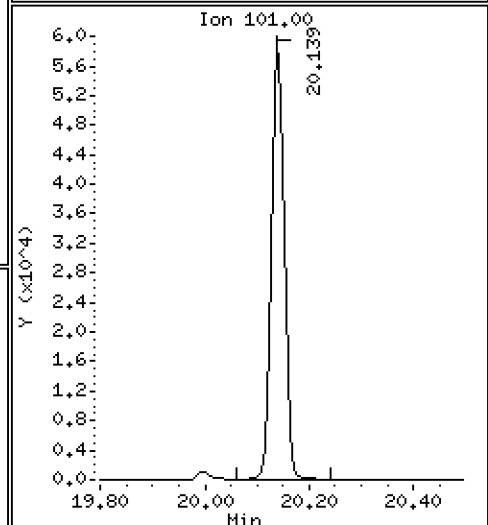
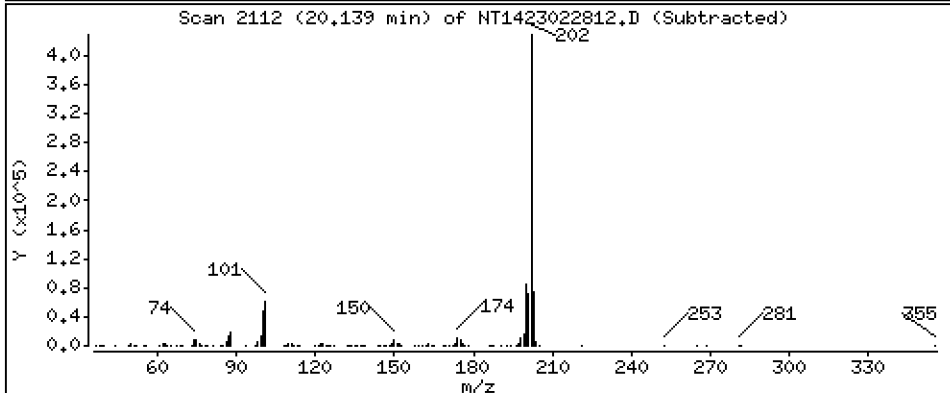
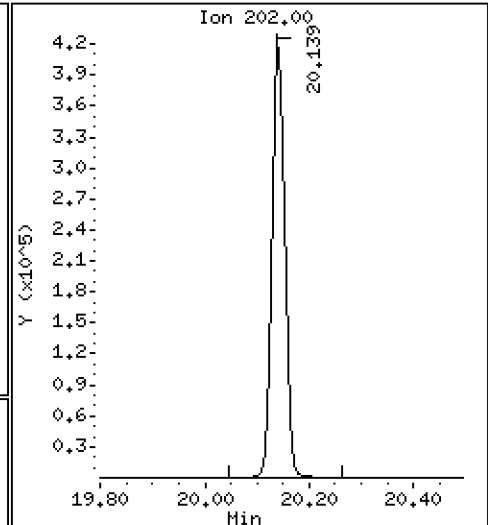
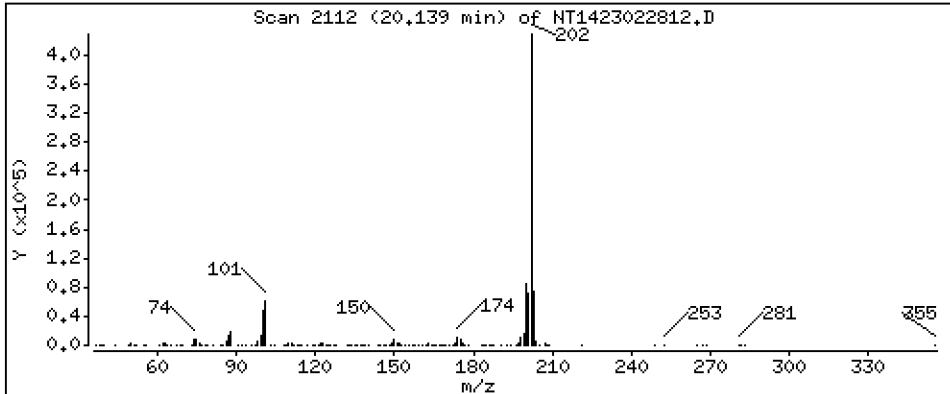
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,957 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

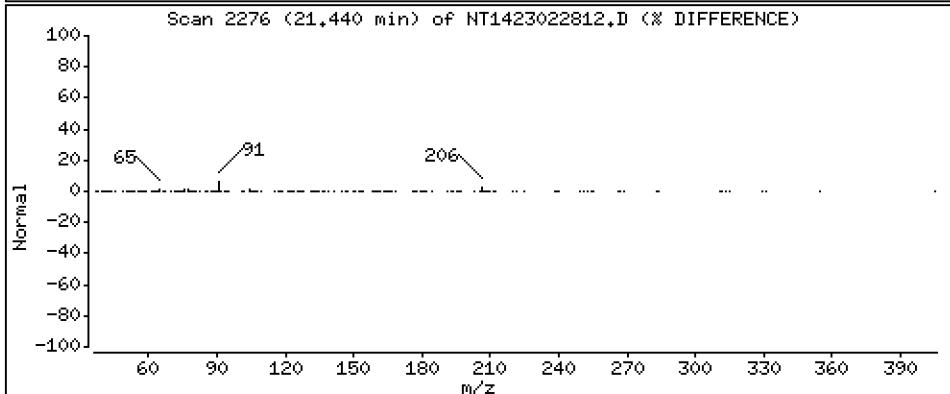
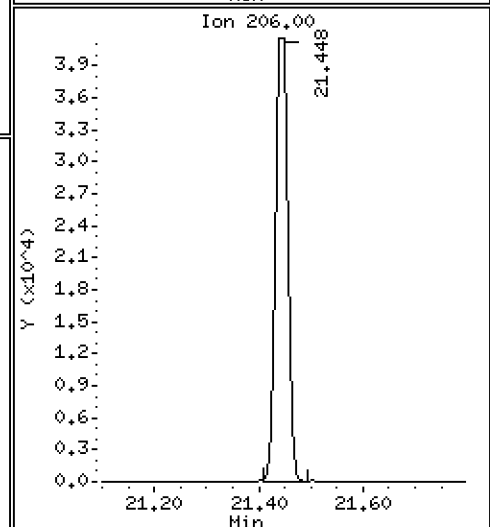
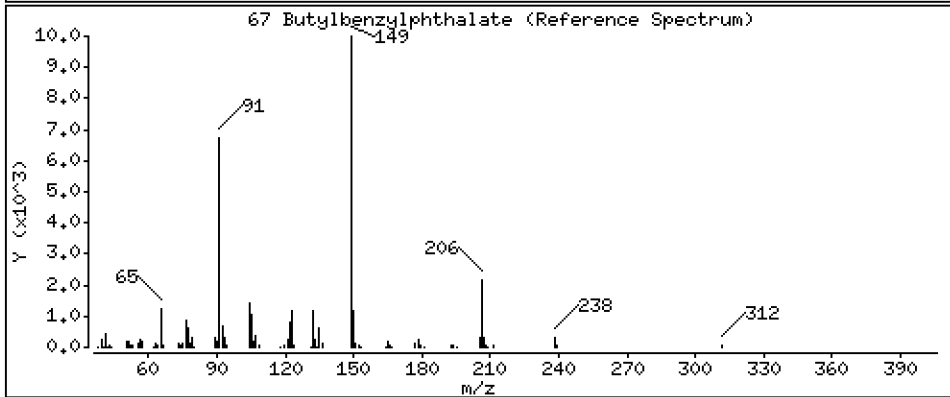
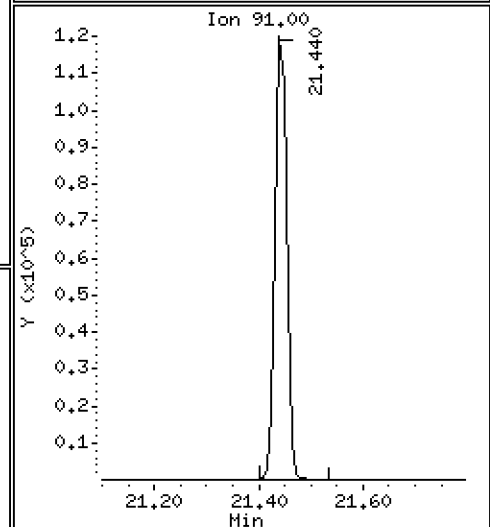
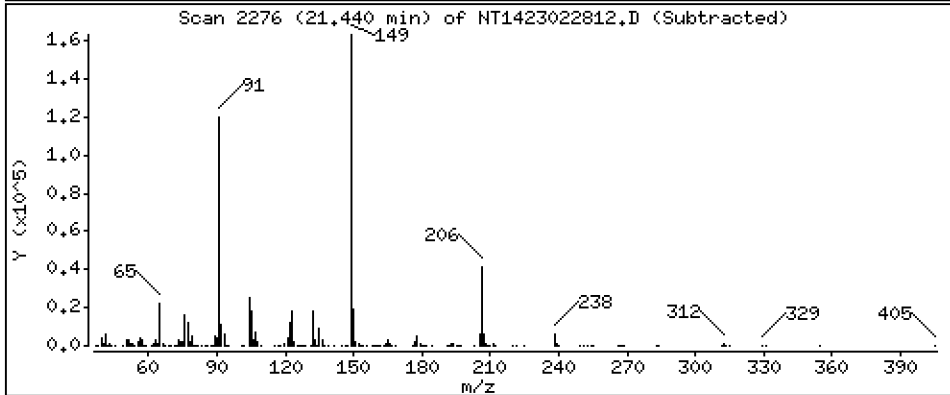
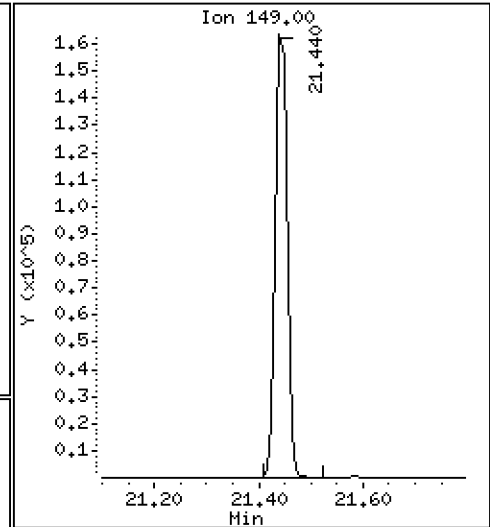
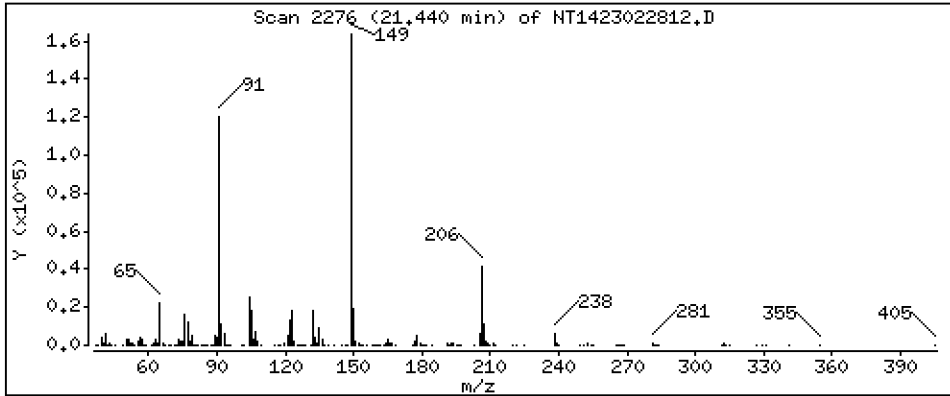
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,965 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

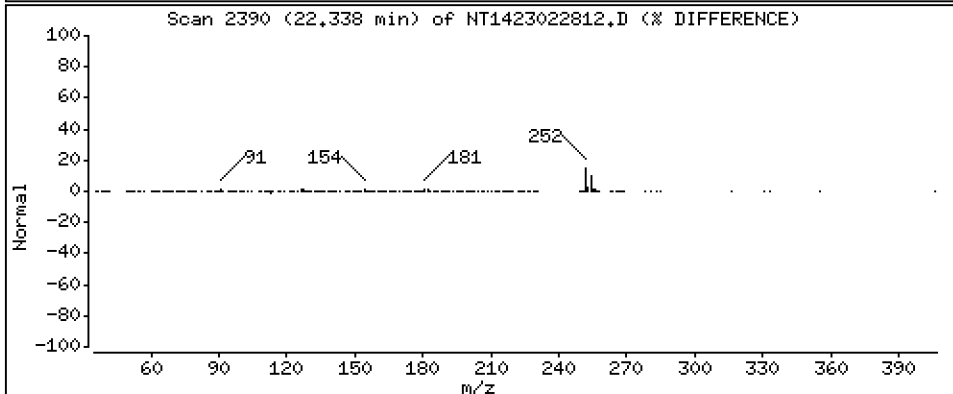
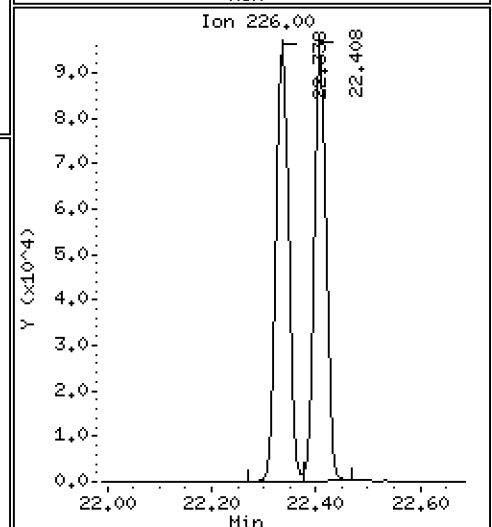
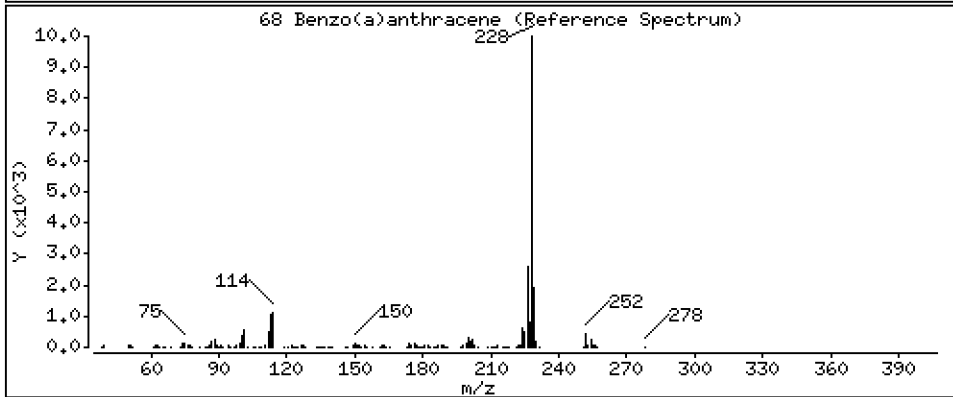
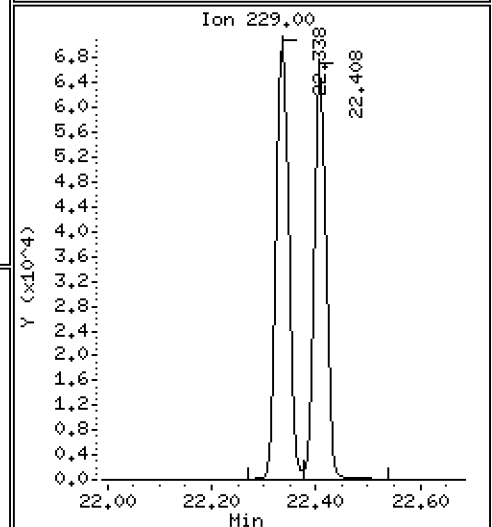
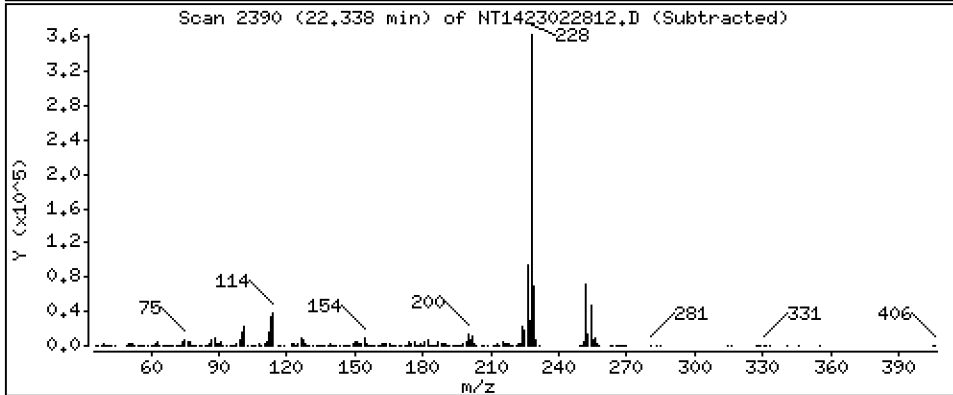
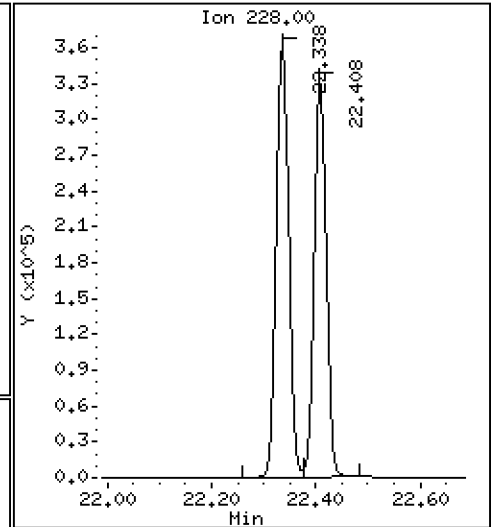
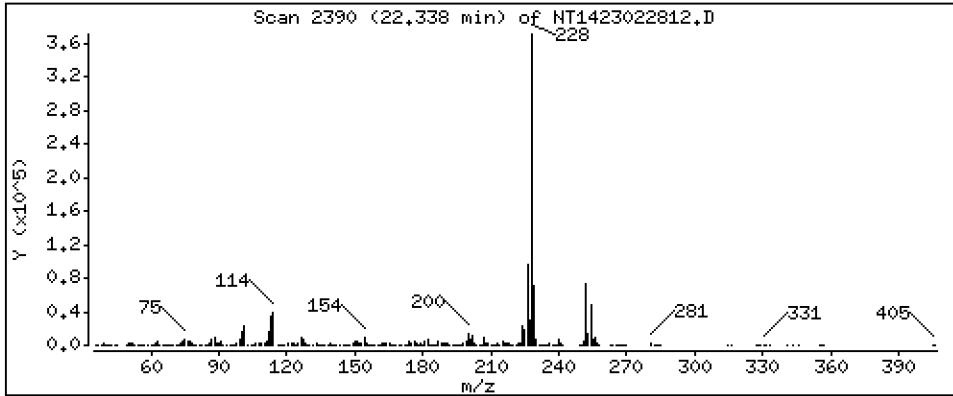
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,917 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

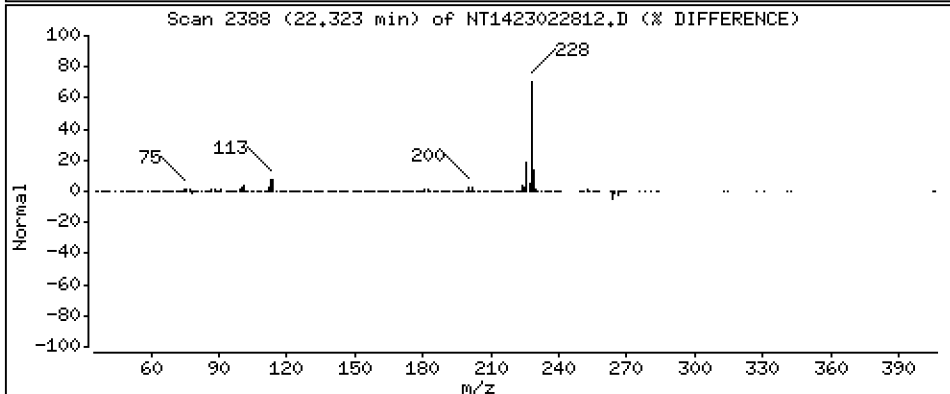
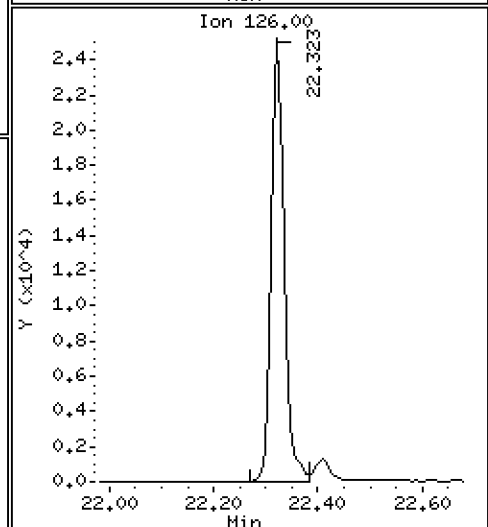
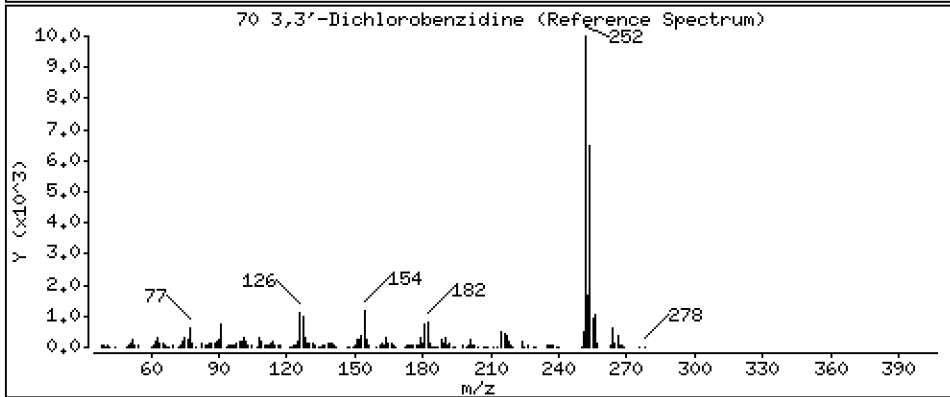
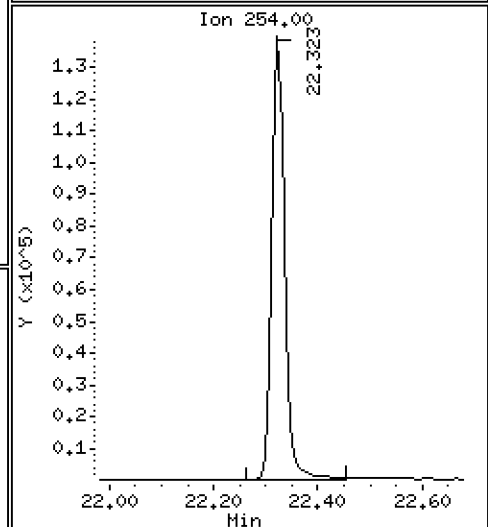
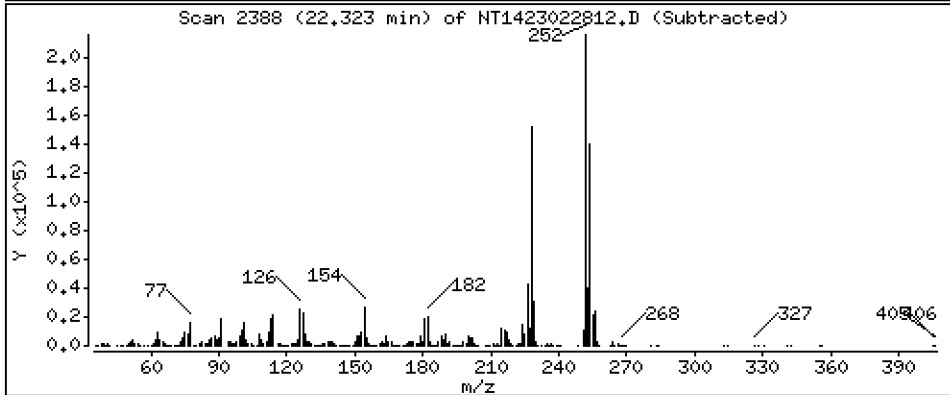
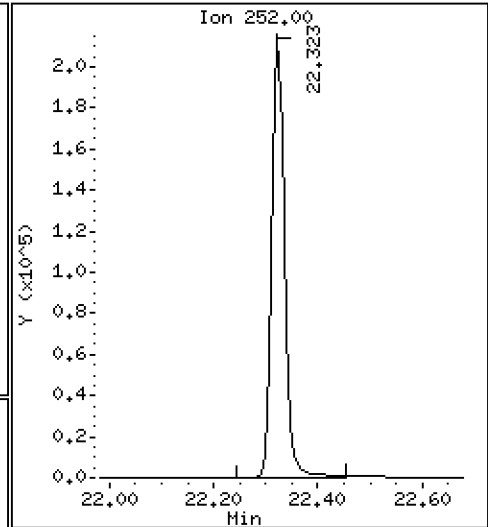
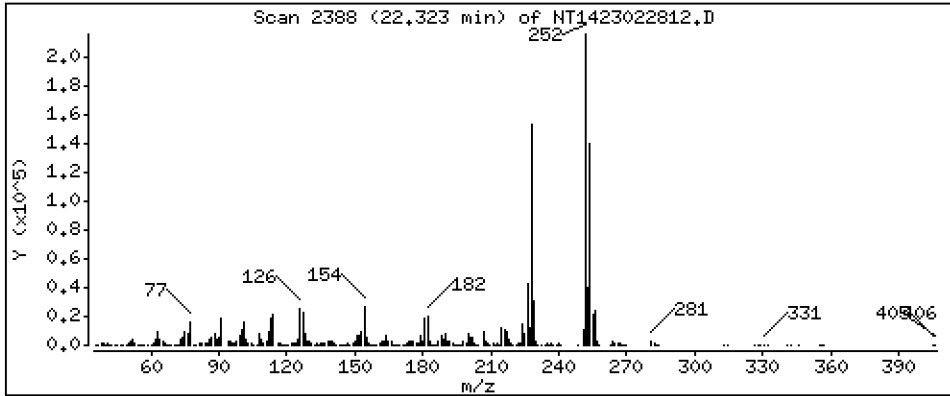
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 10,29 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

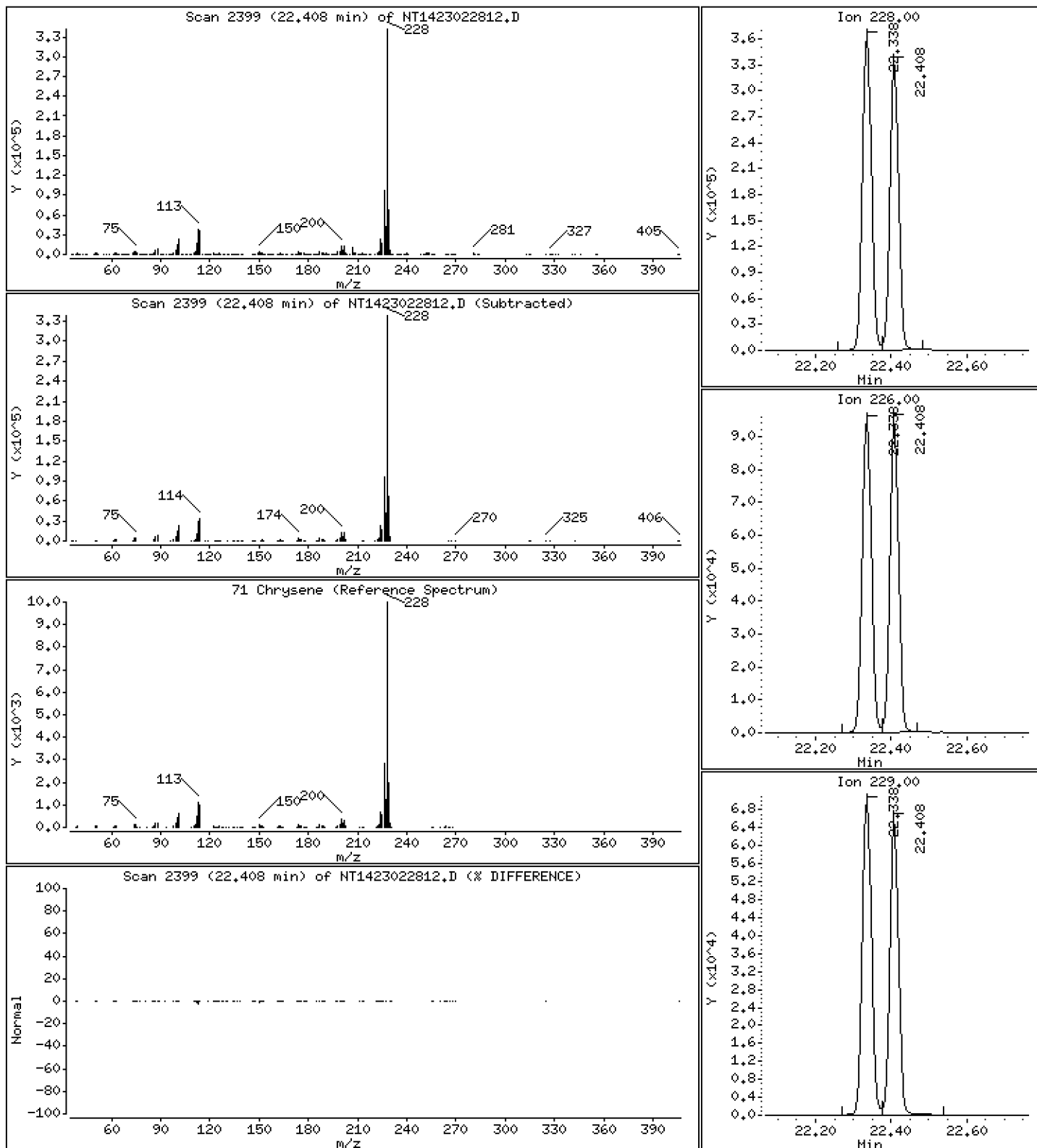
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,556 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

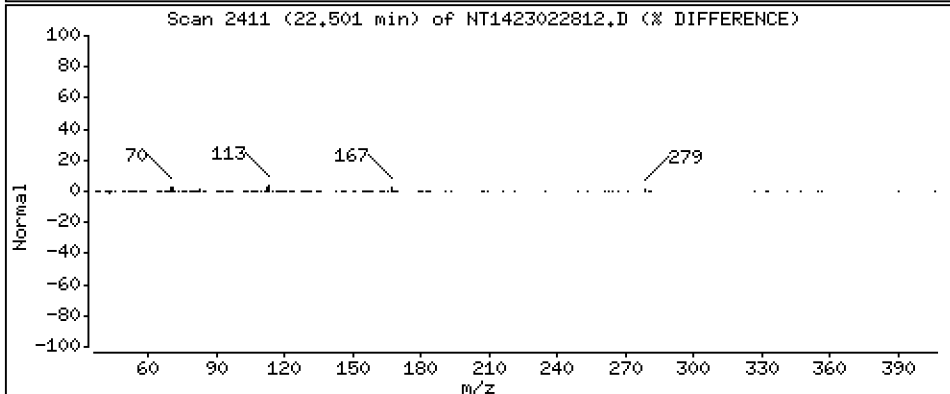
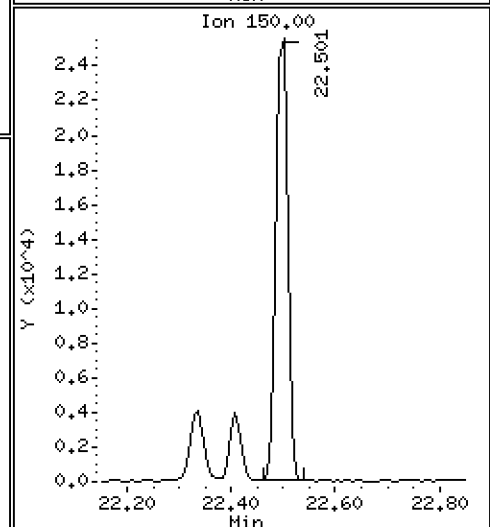
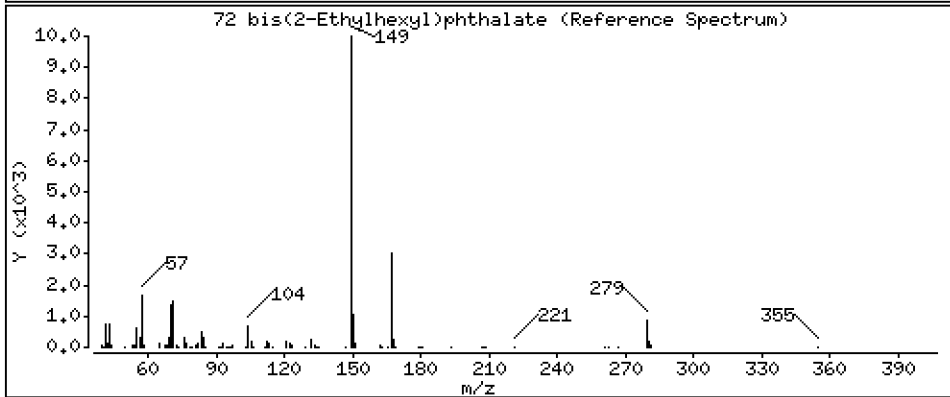
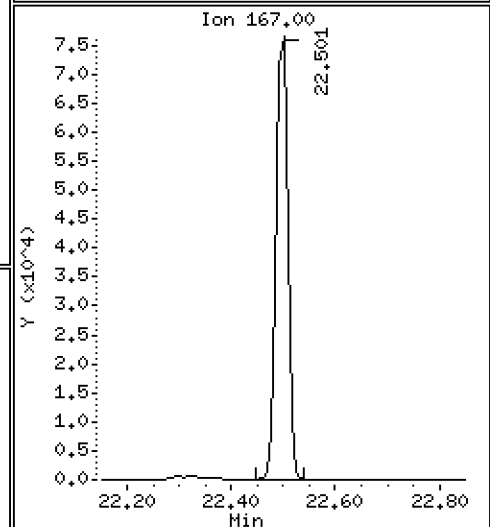
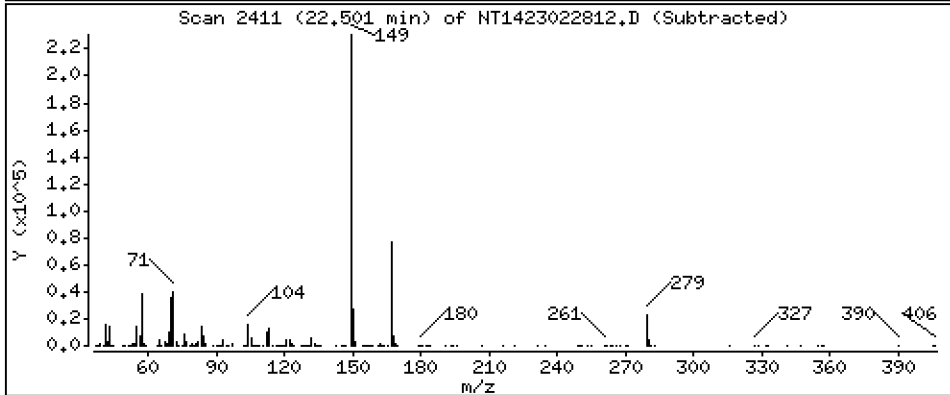
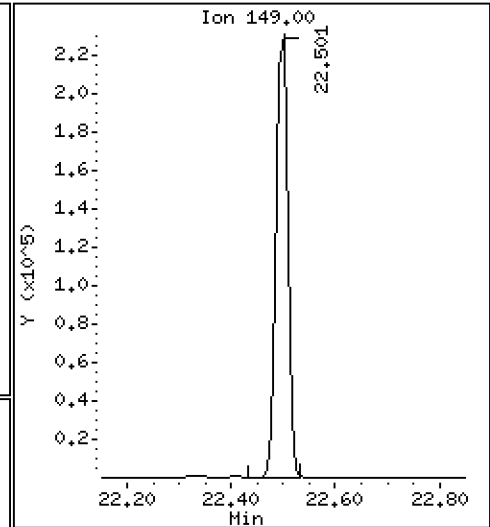
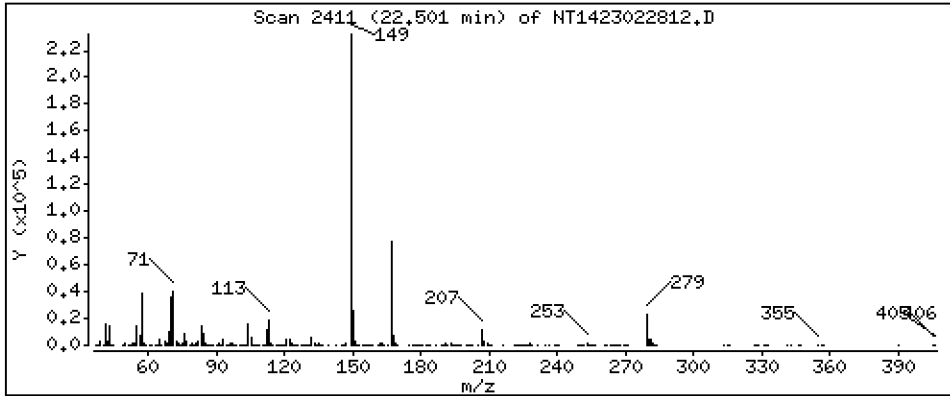
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,277 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

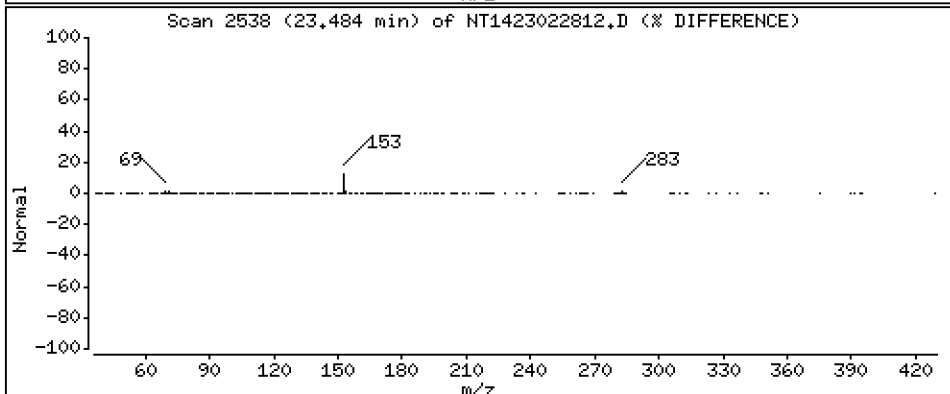
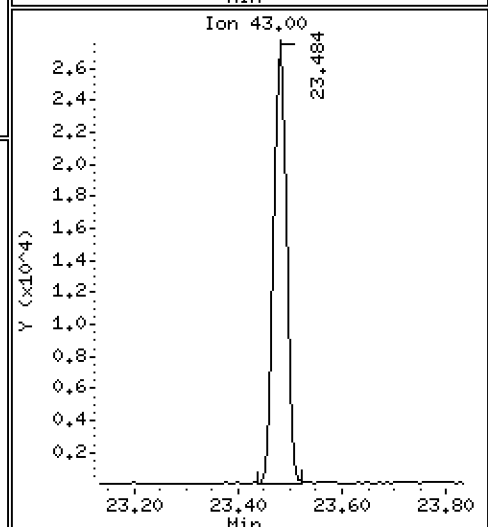
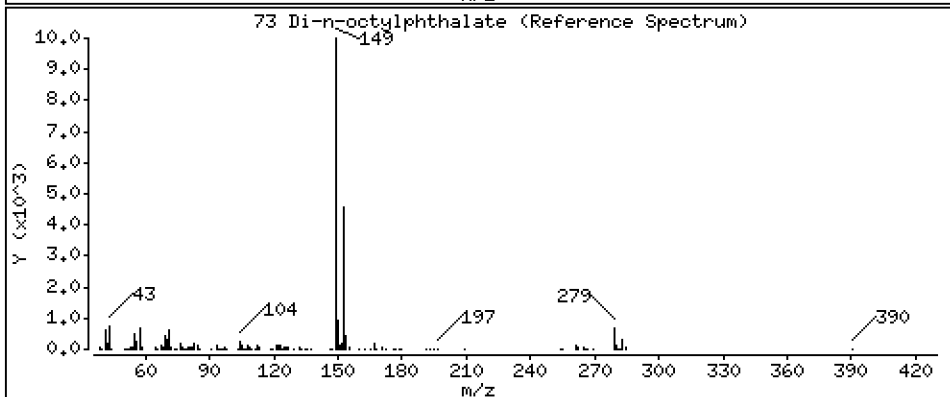
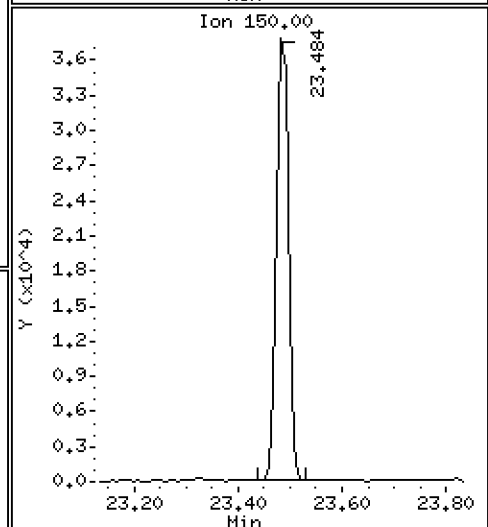
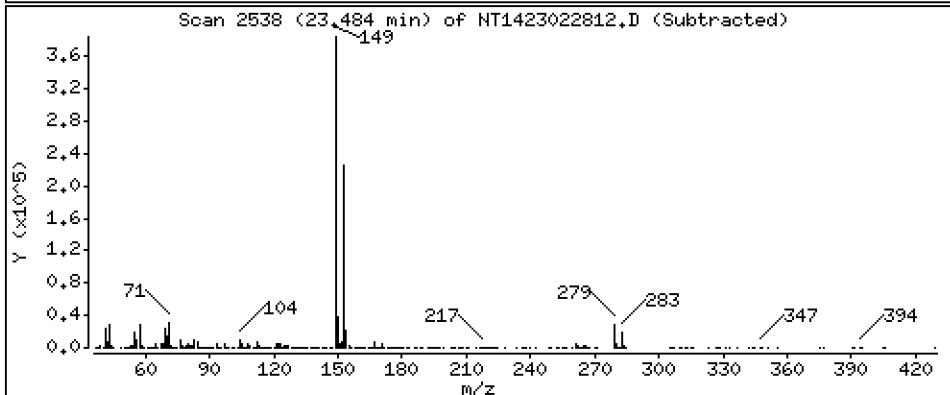
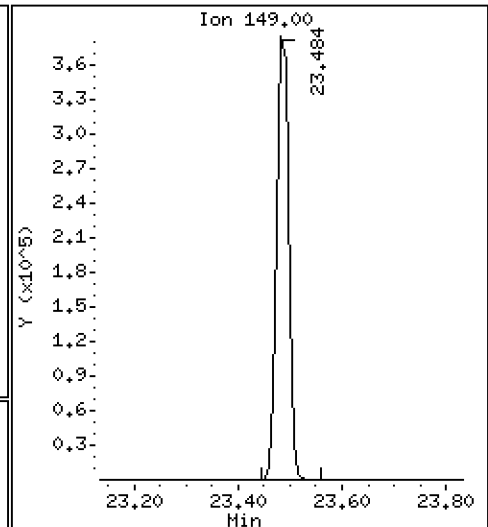
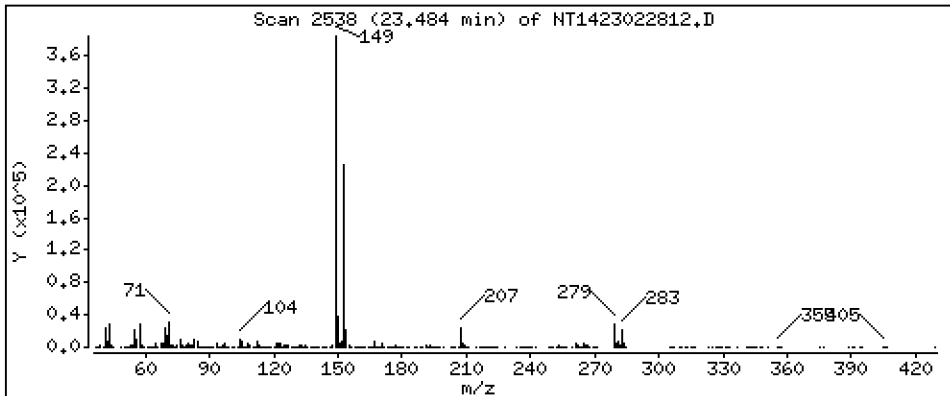
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,183 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

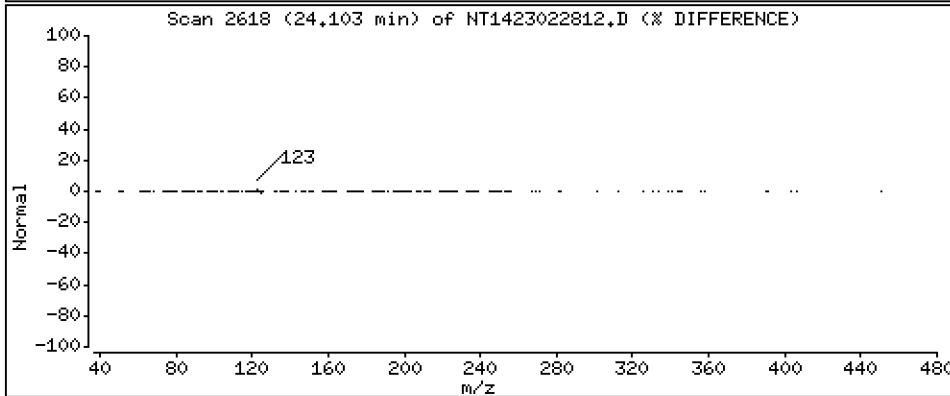
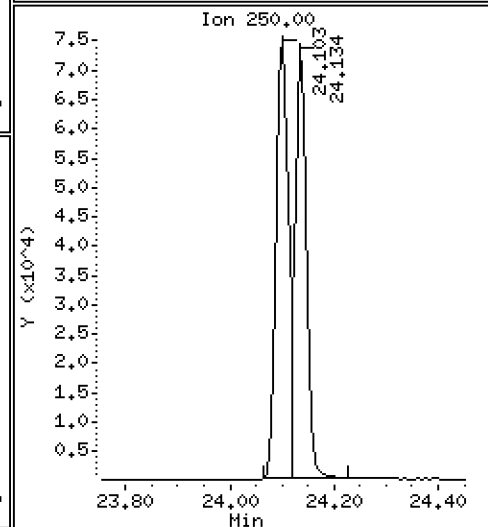
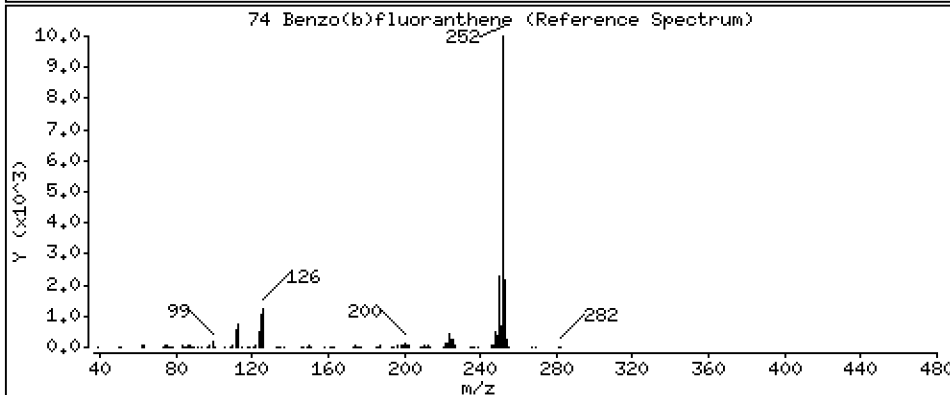
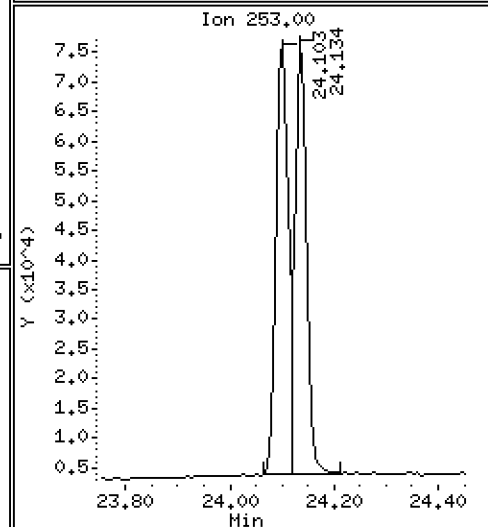
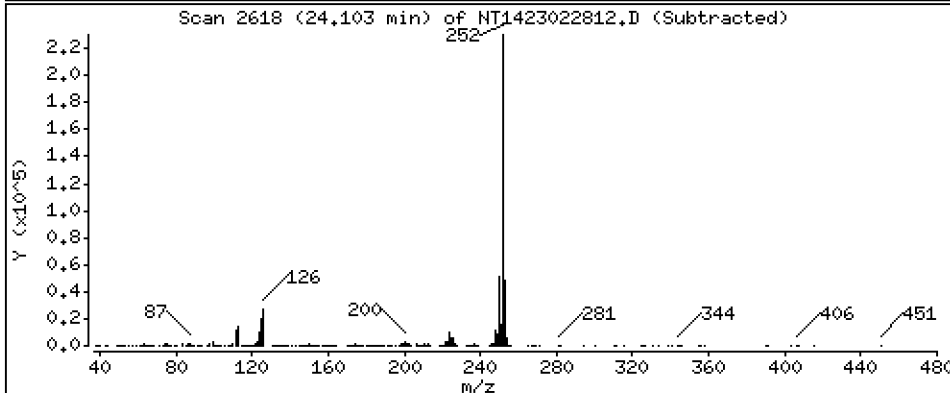
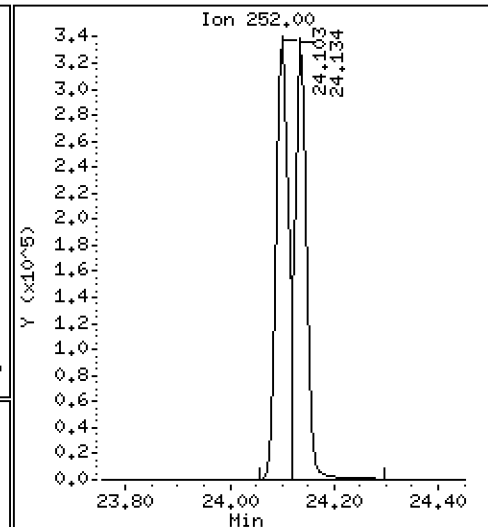
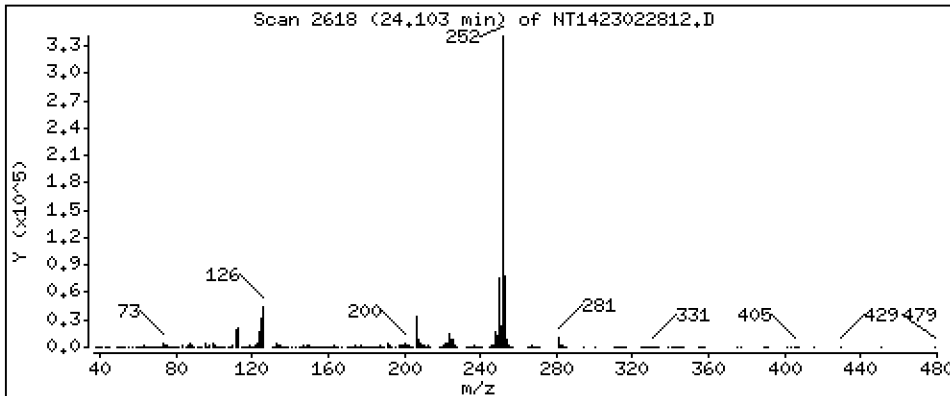
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,872 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

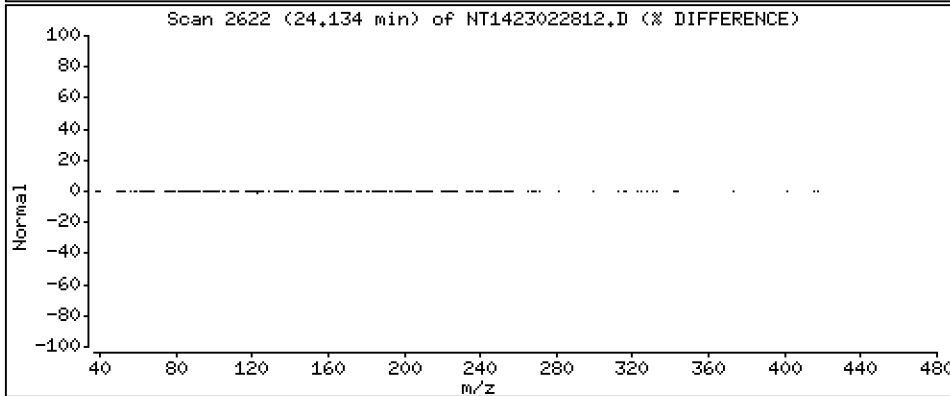
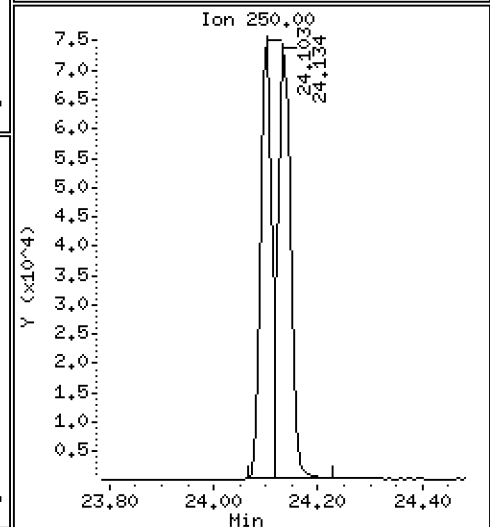
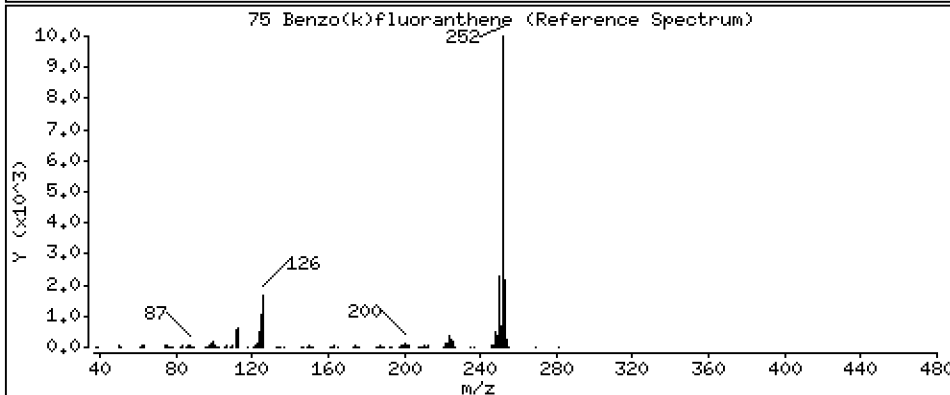
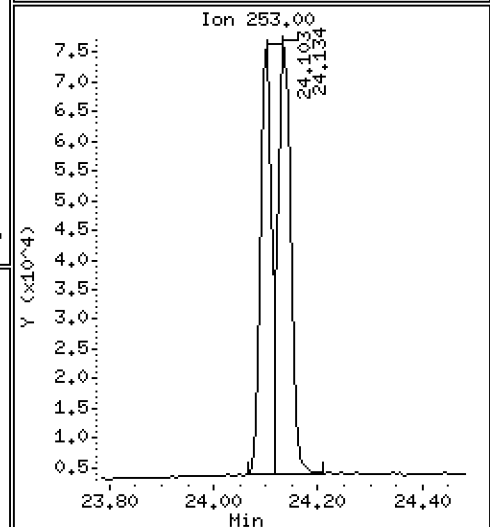
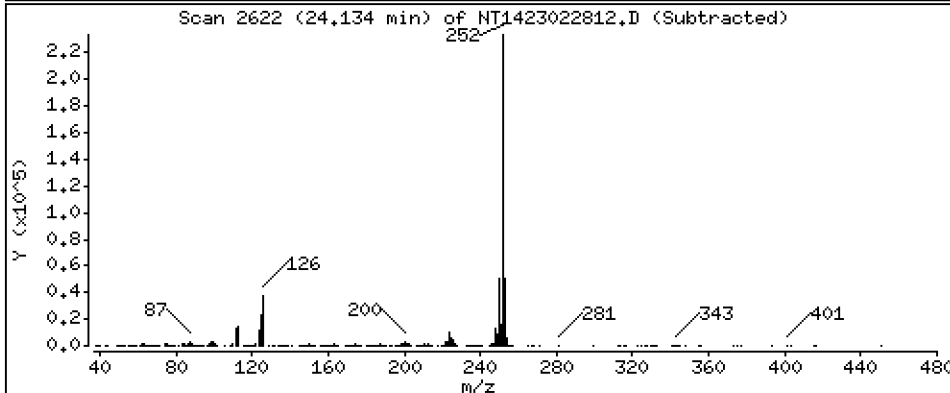
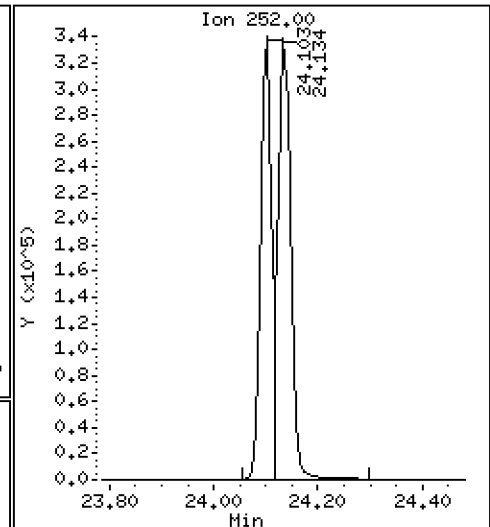
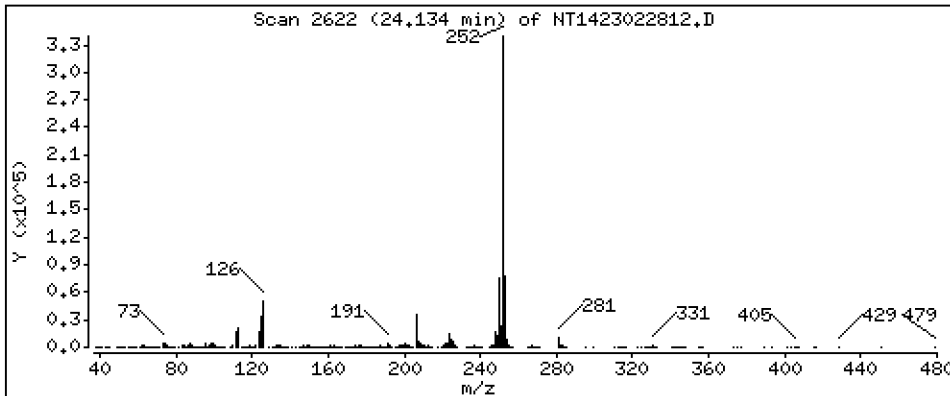
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,663 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

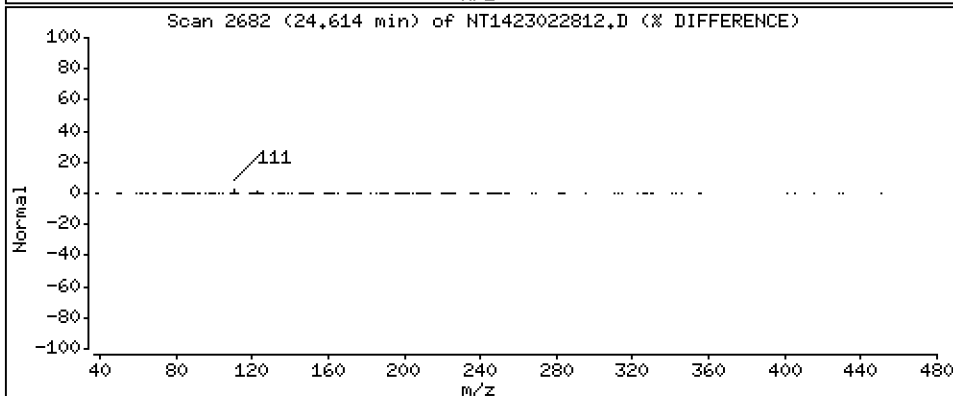
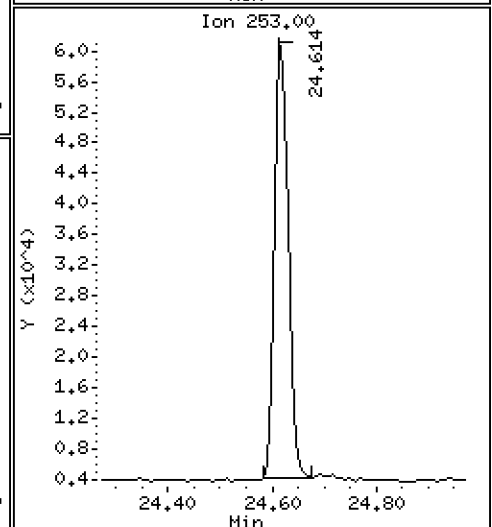
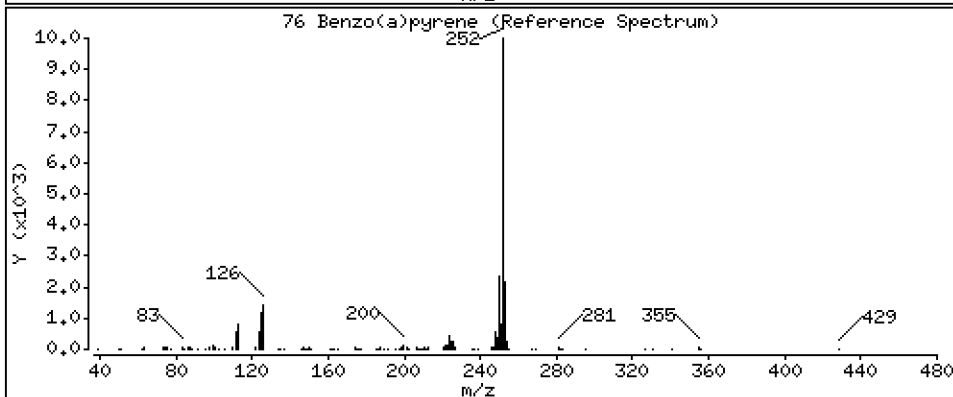
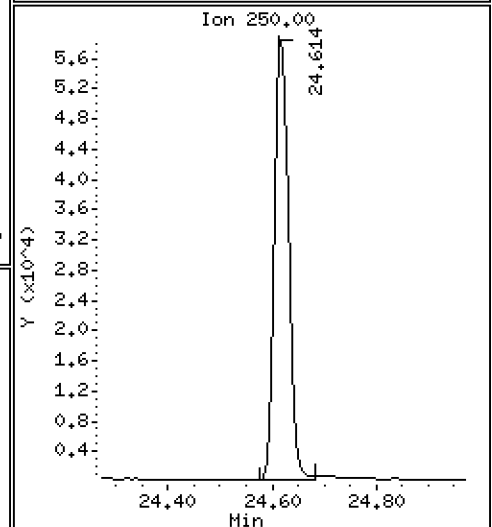
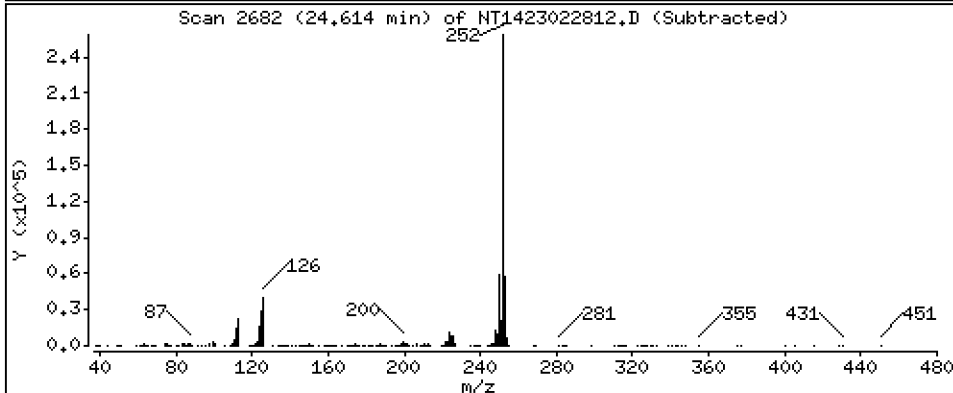
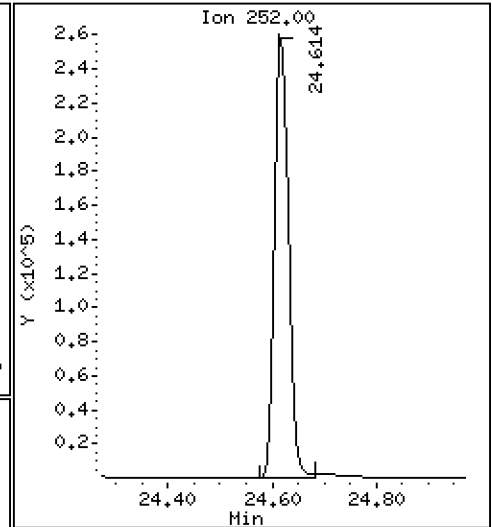
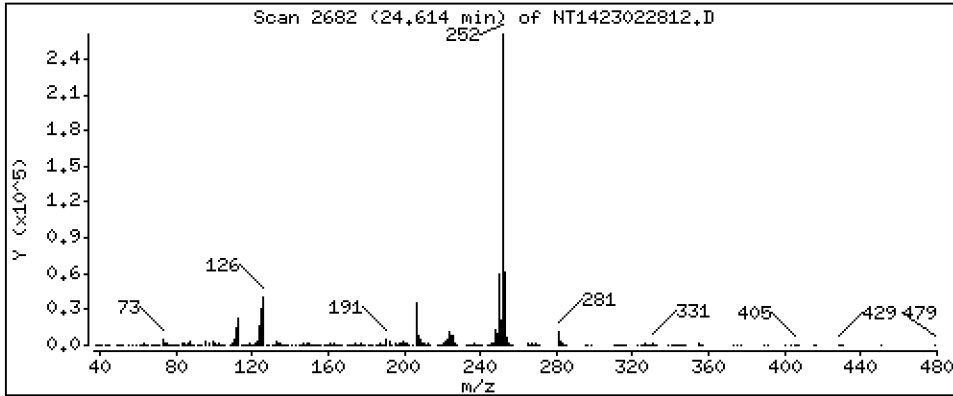
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,886 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

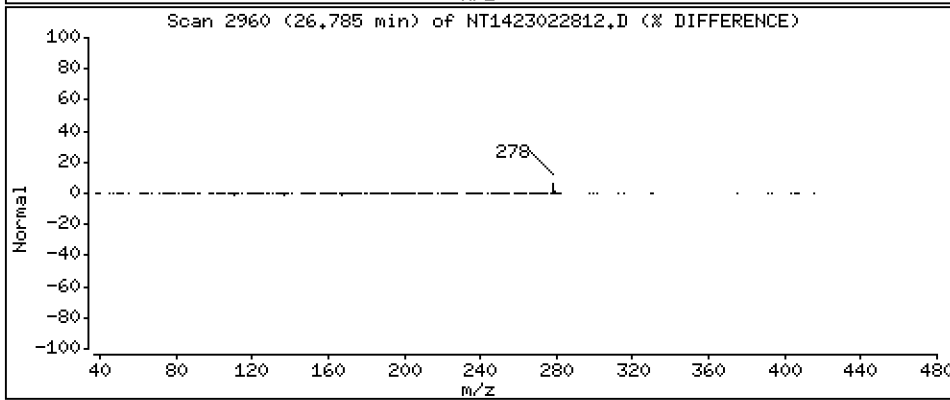
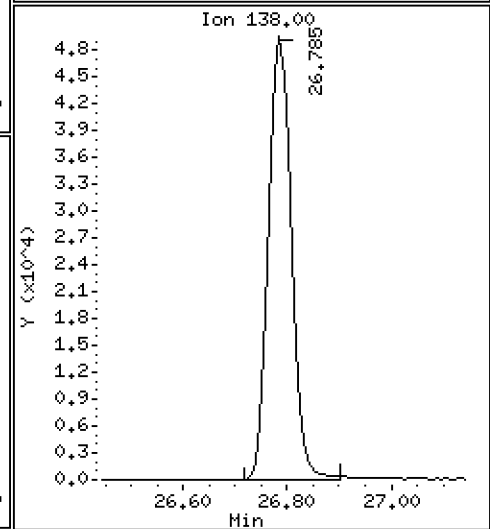
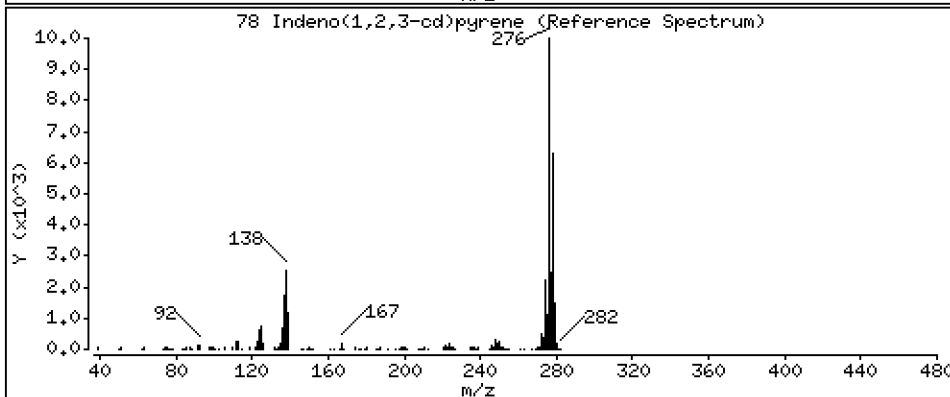
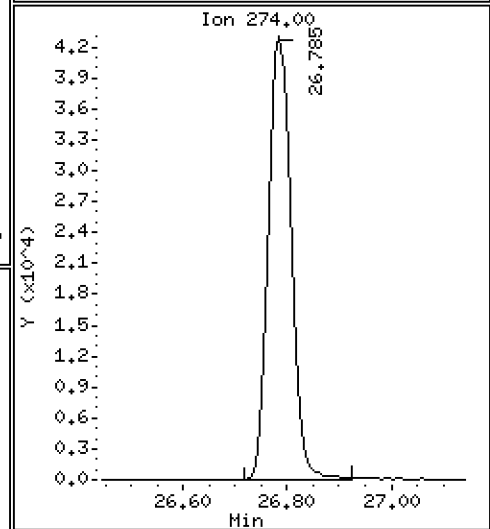
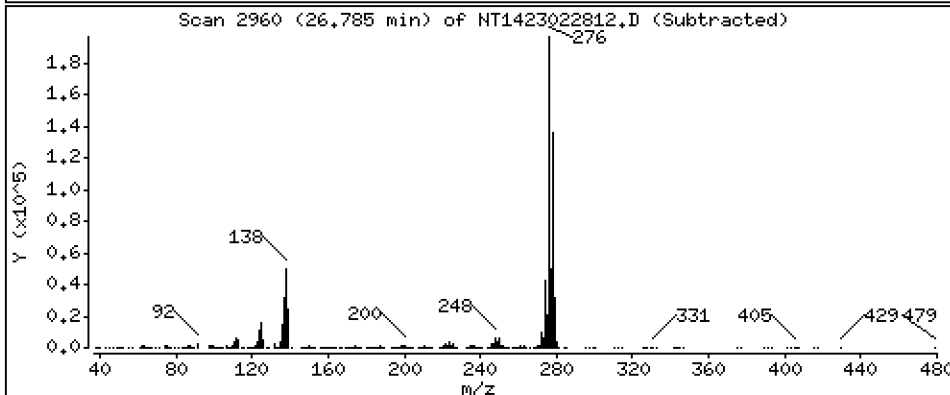
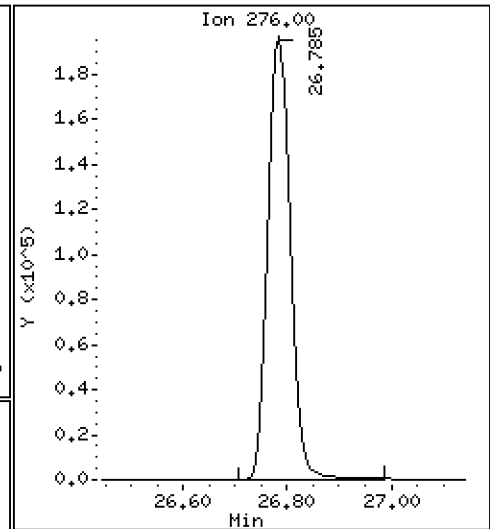
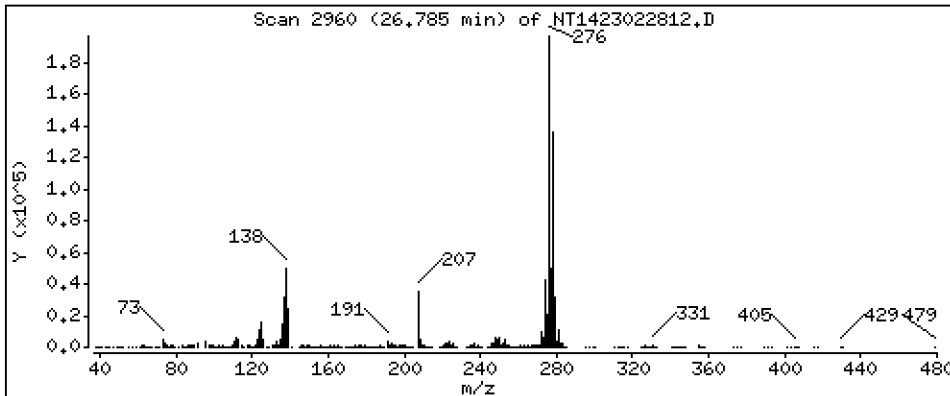
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 4,892 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

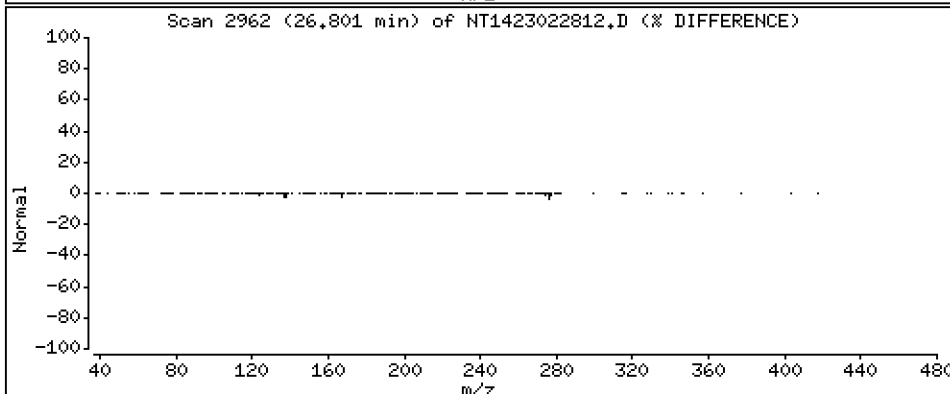
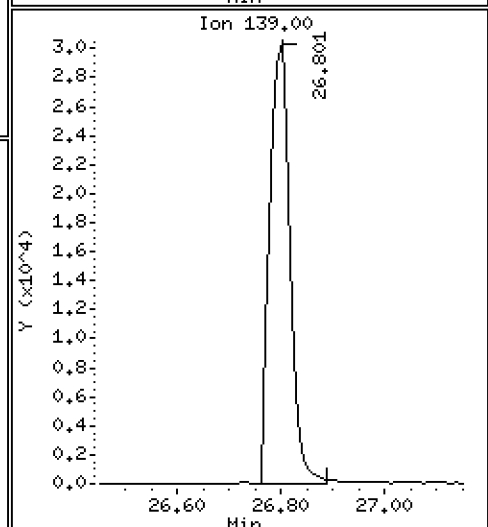
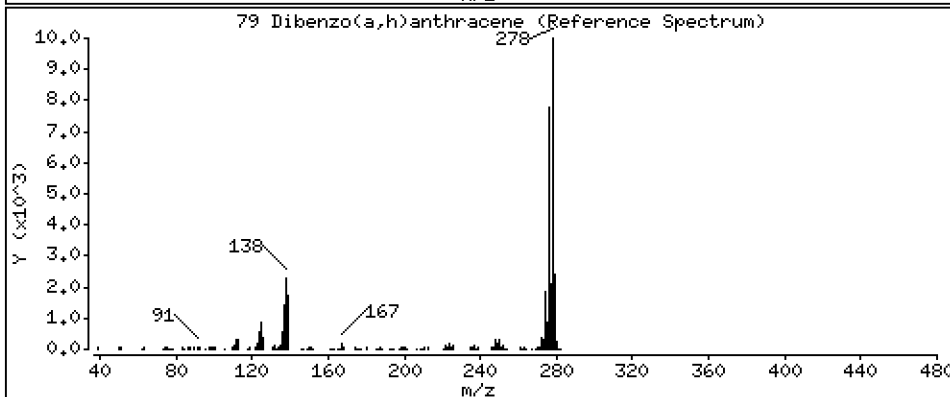
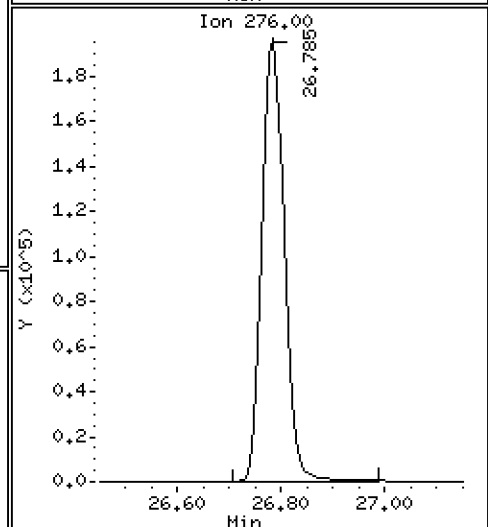
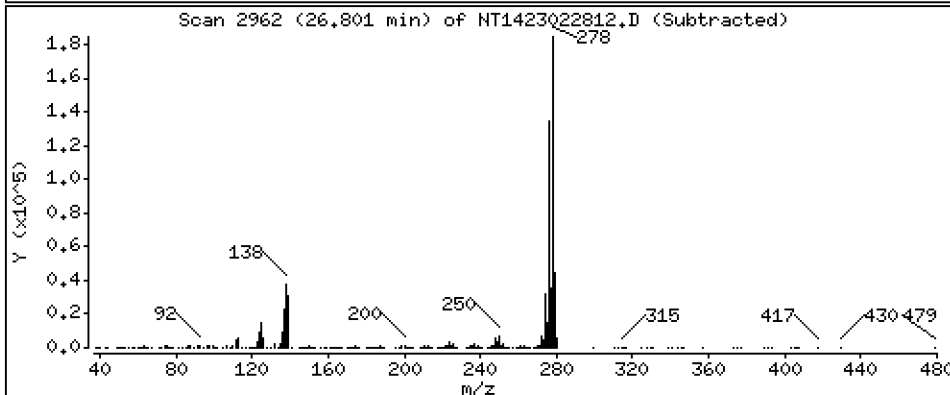
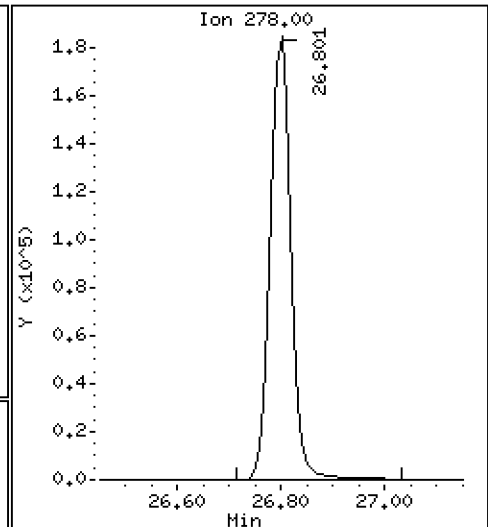
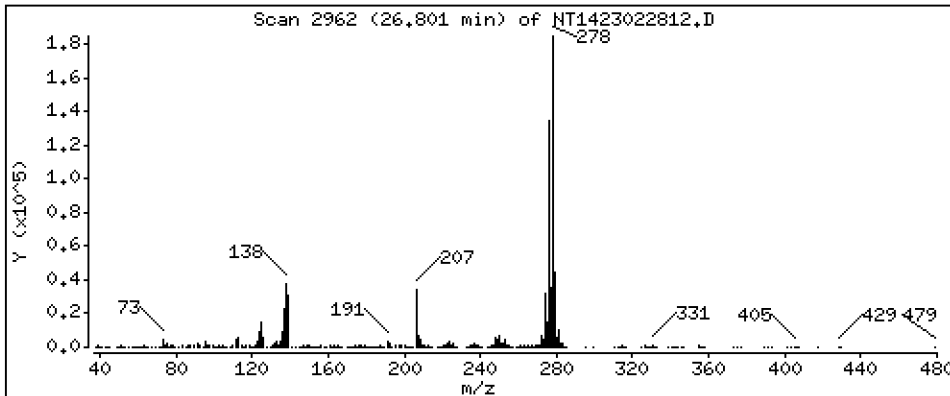
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,907 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

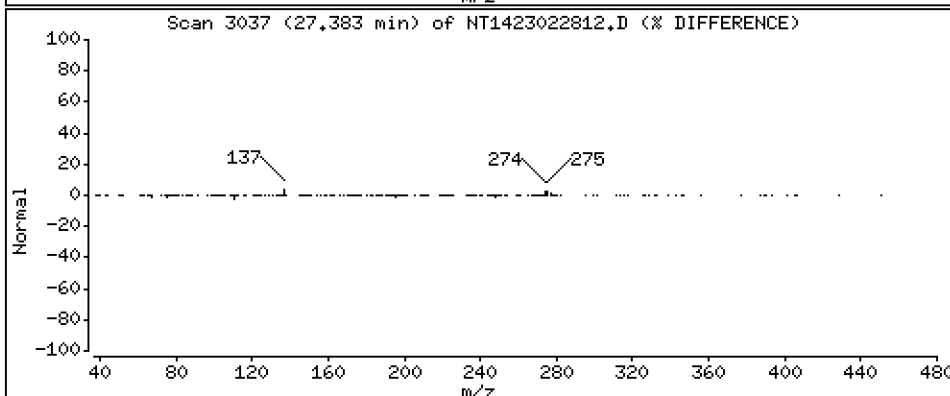
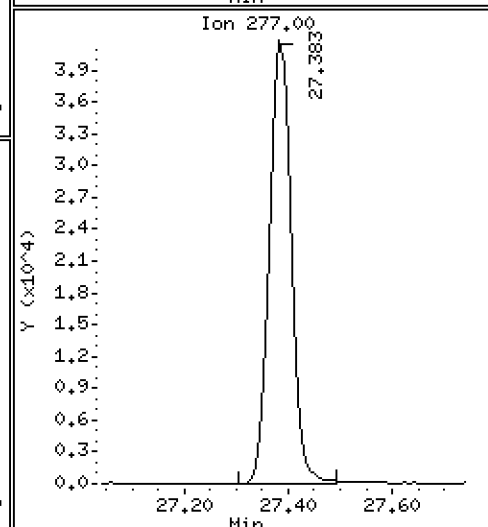
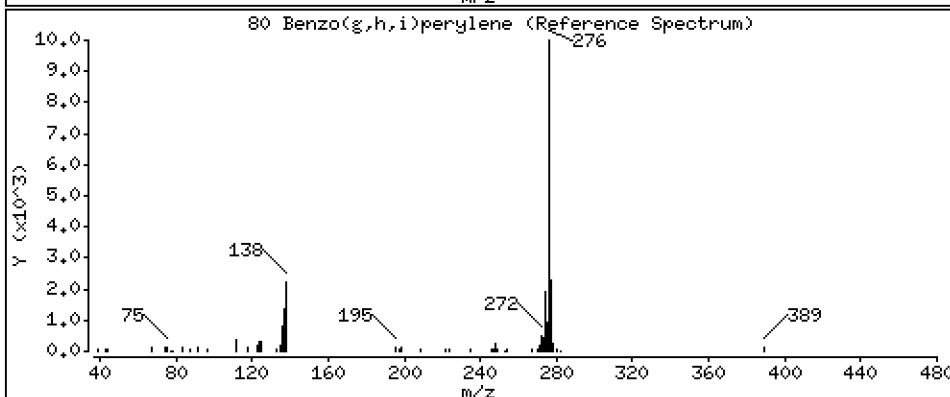
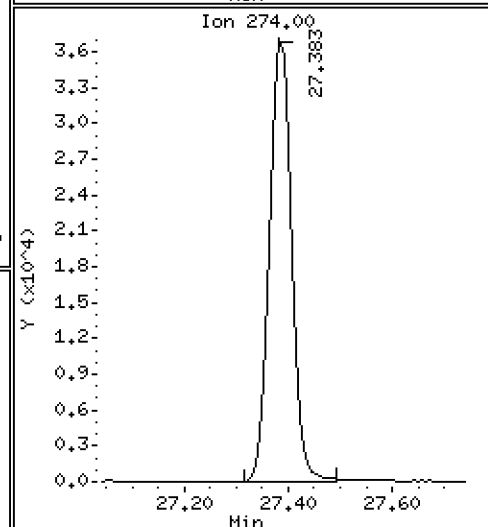
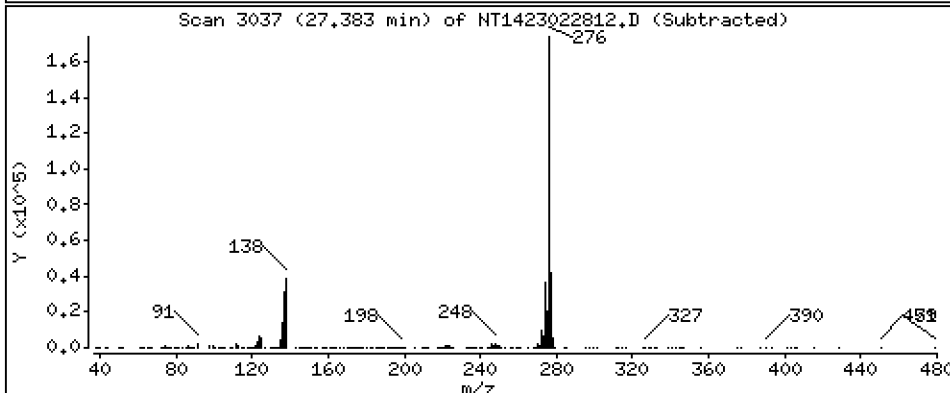
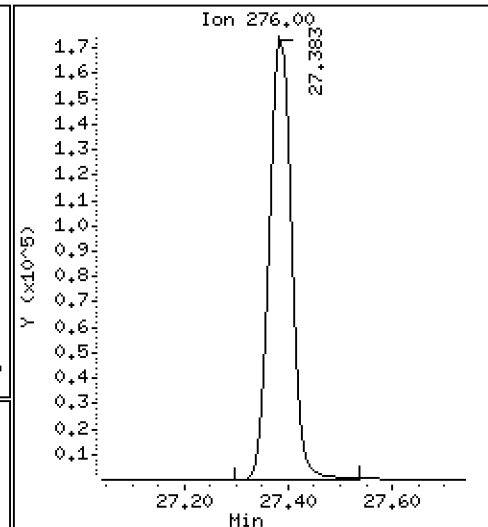
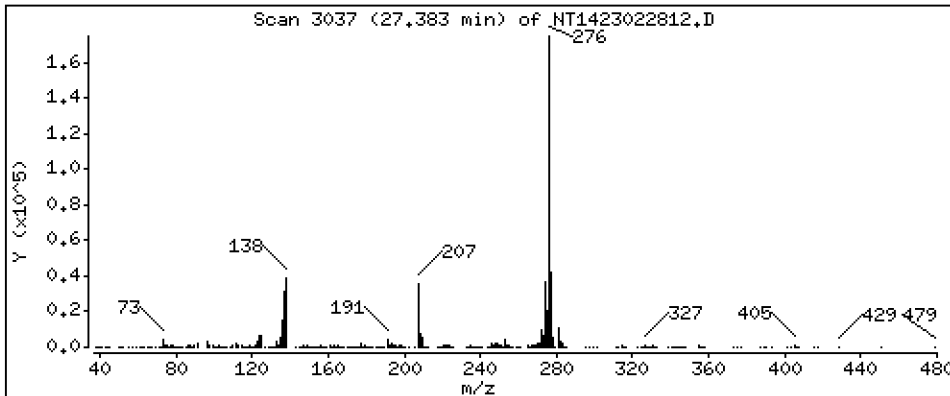
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,858 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

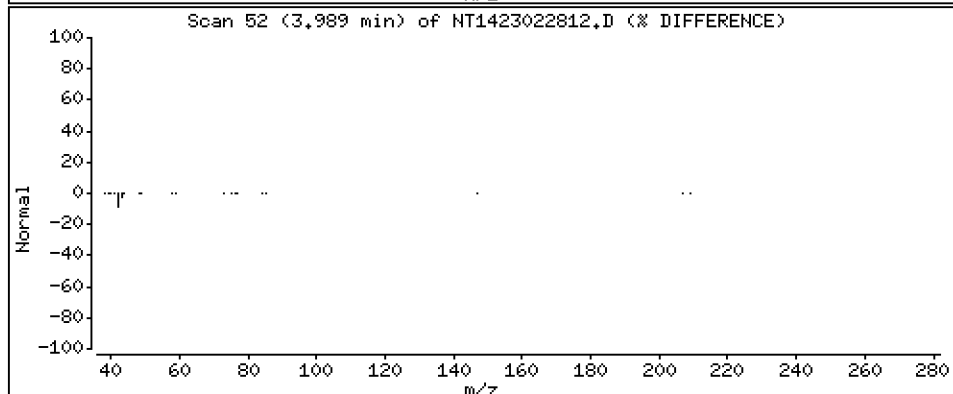
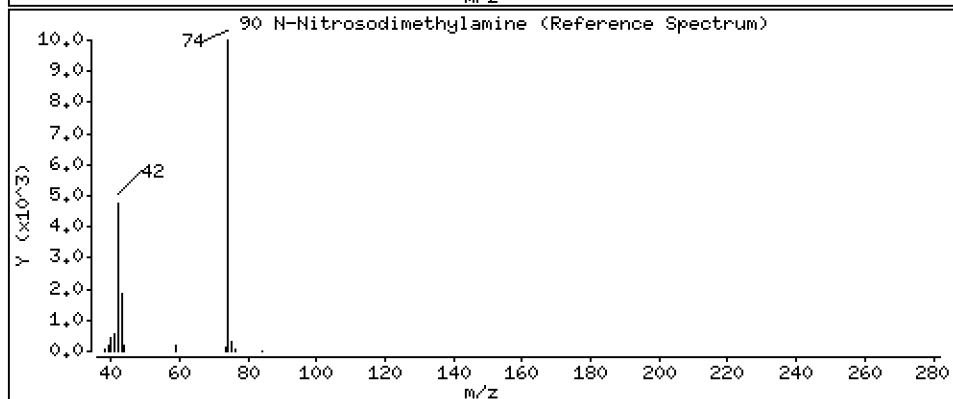
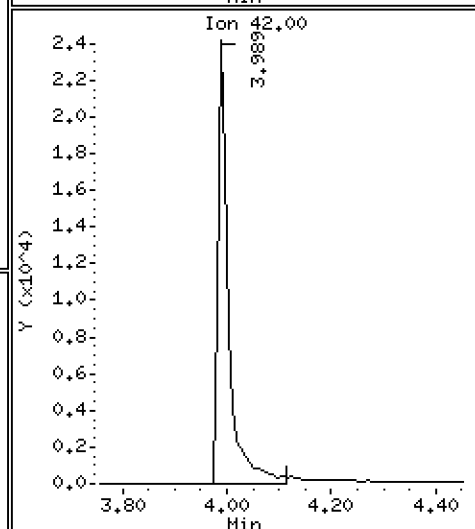
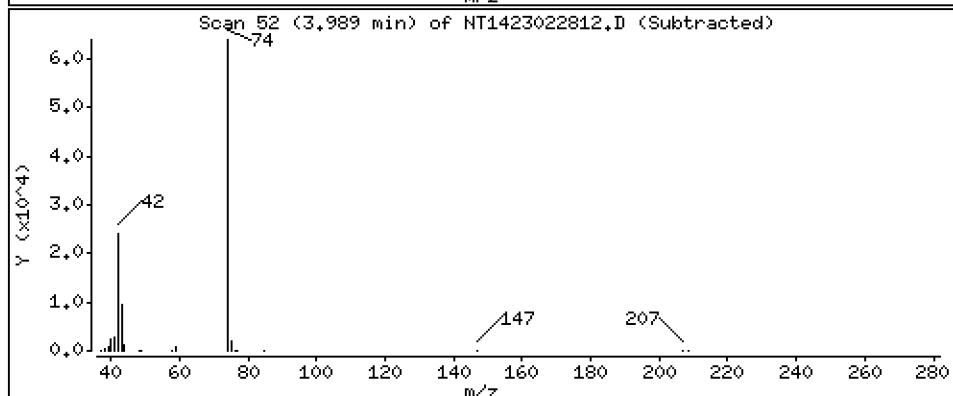
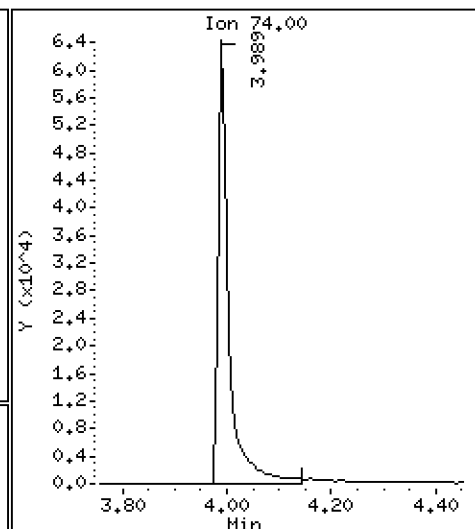
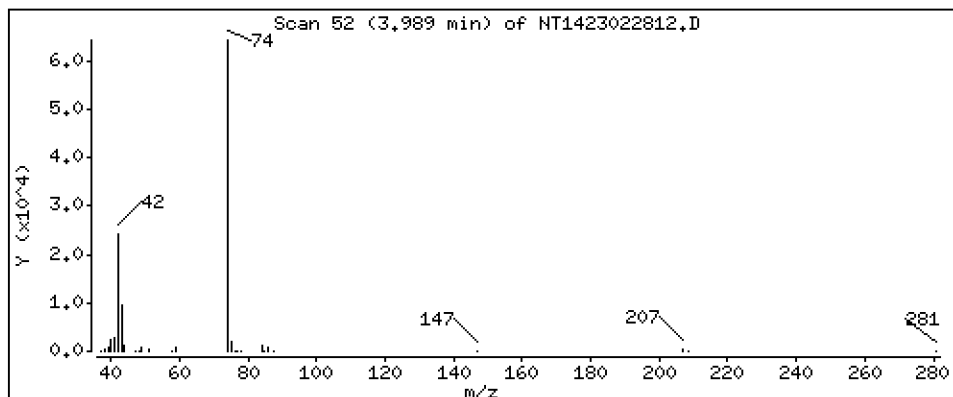
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 4,507 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

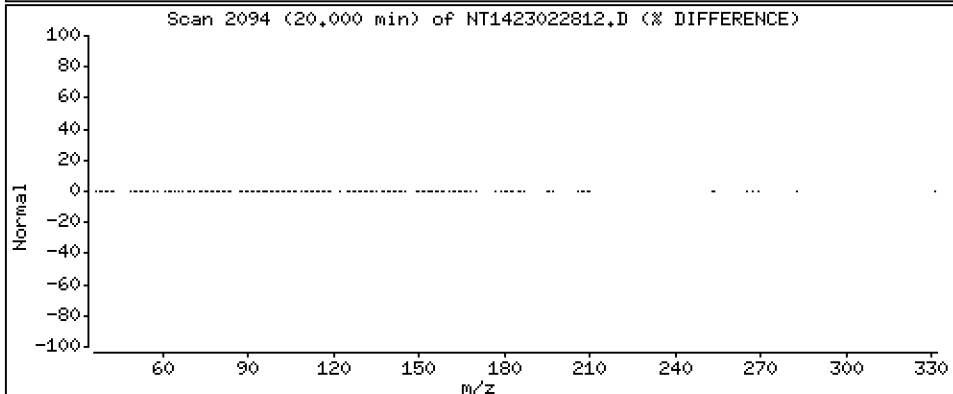
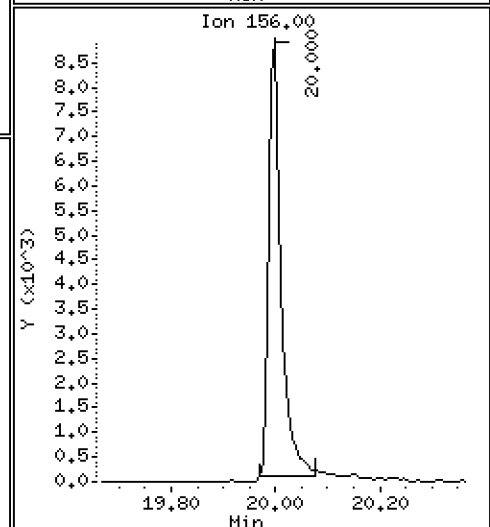
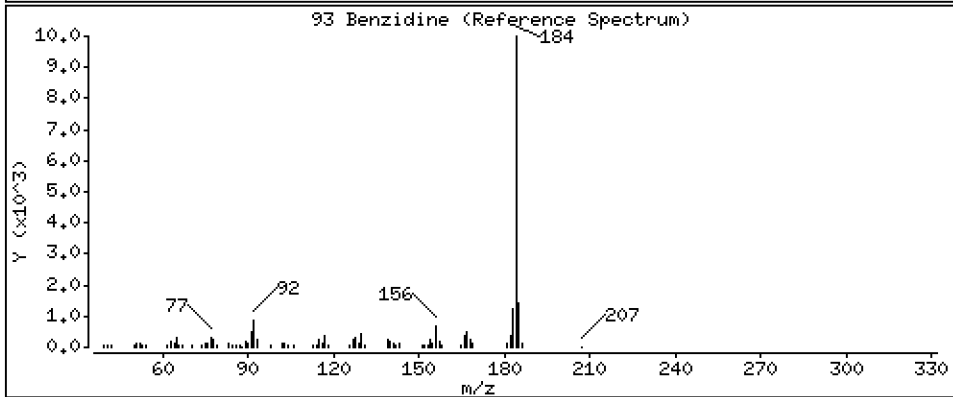
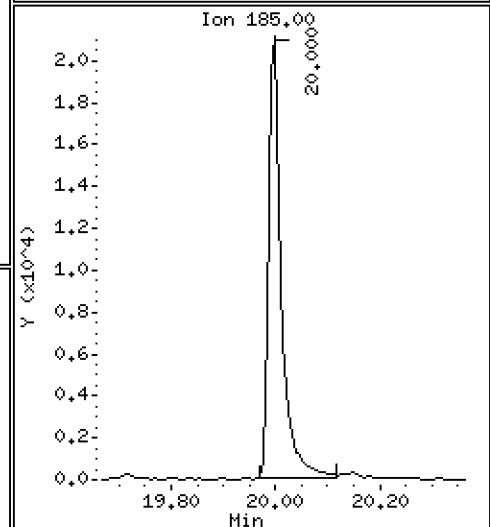
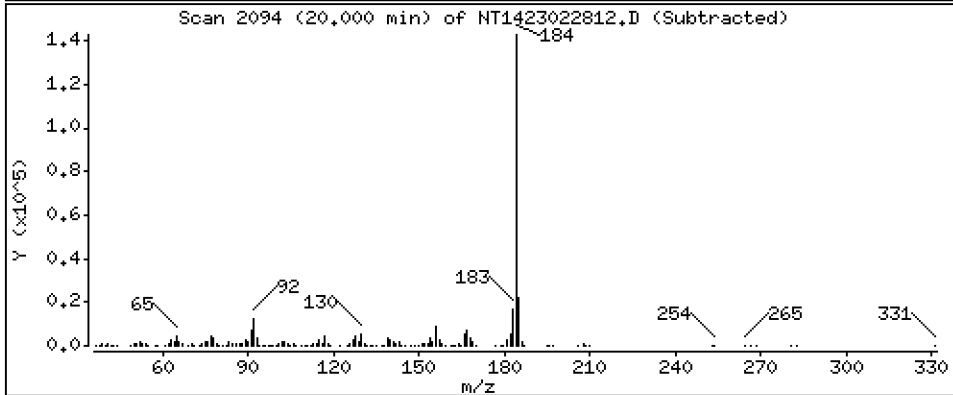
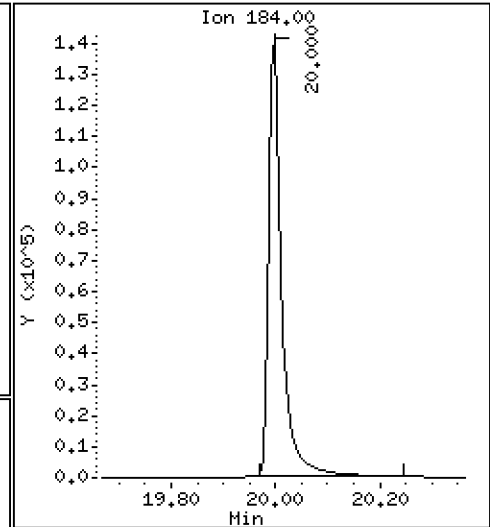
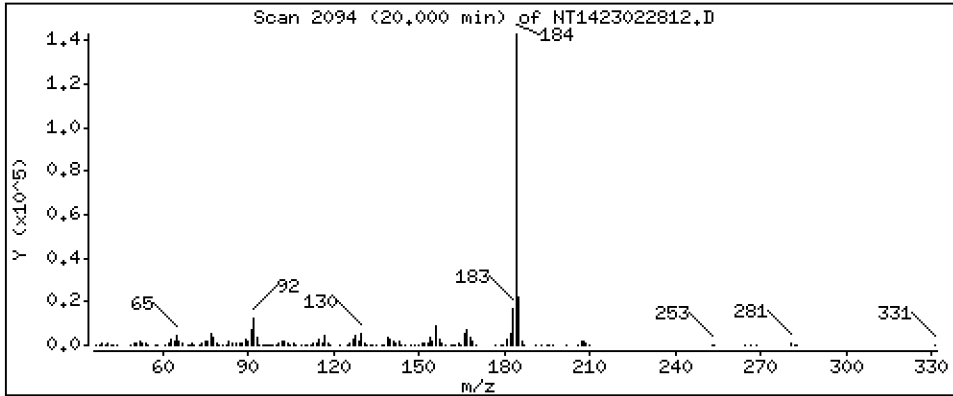
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 4,509 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

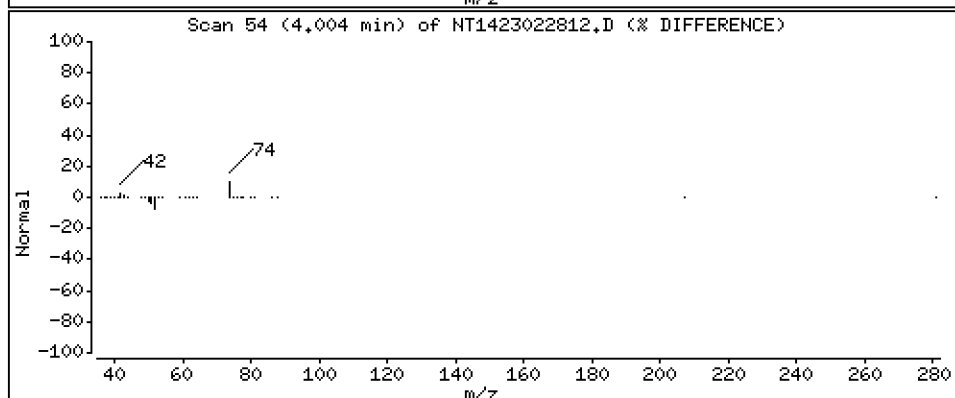
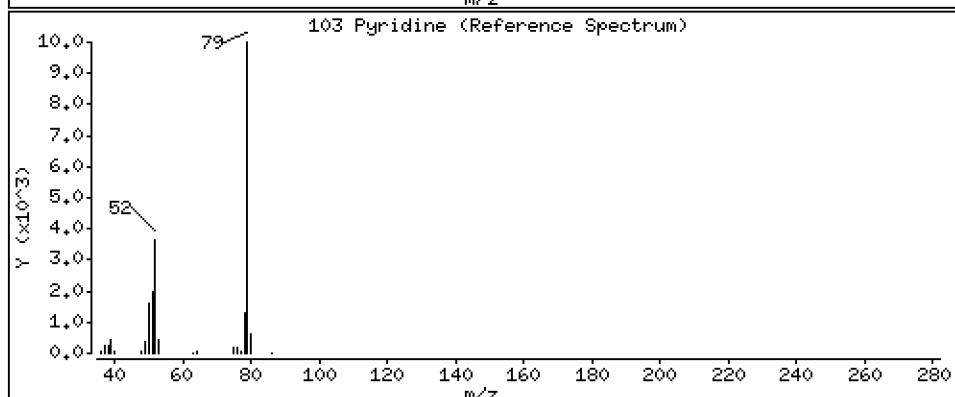
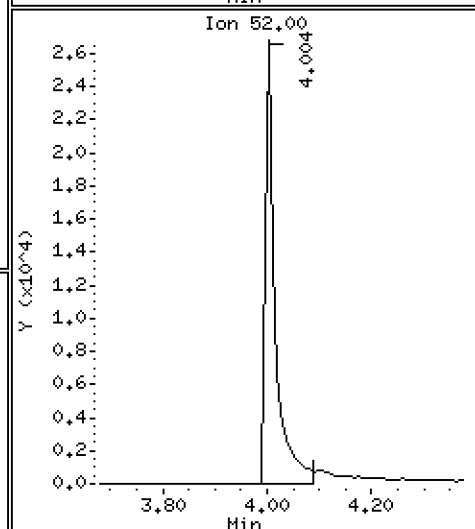
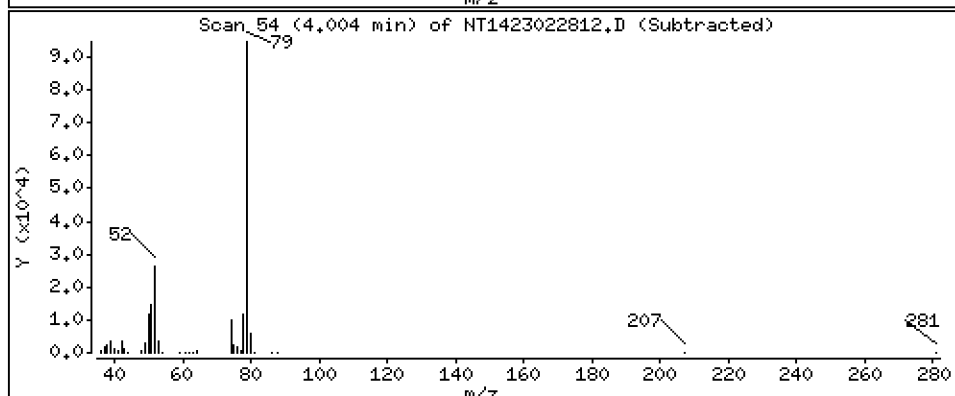
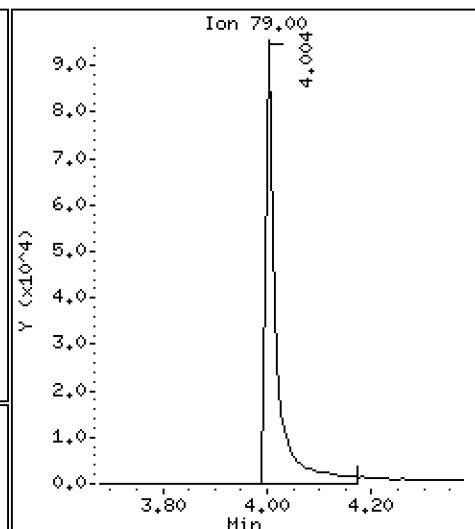
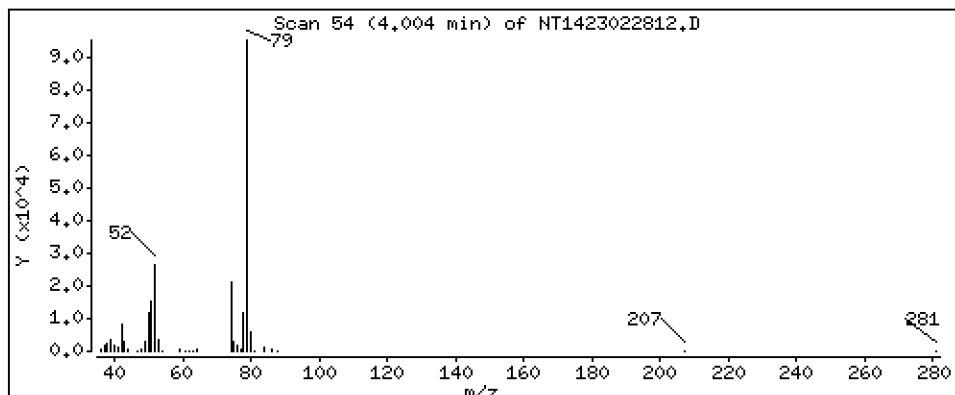
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 2,196 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

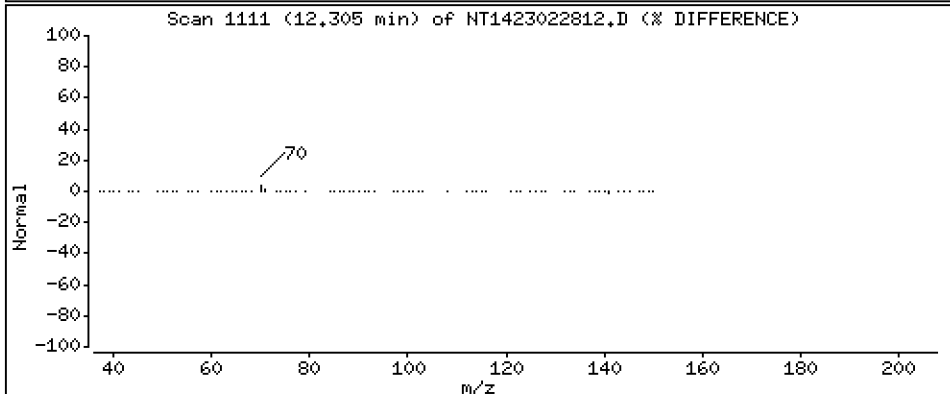
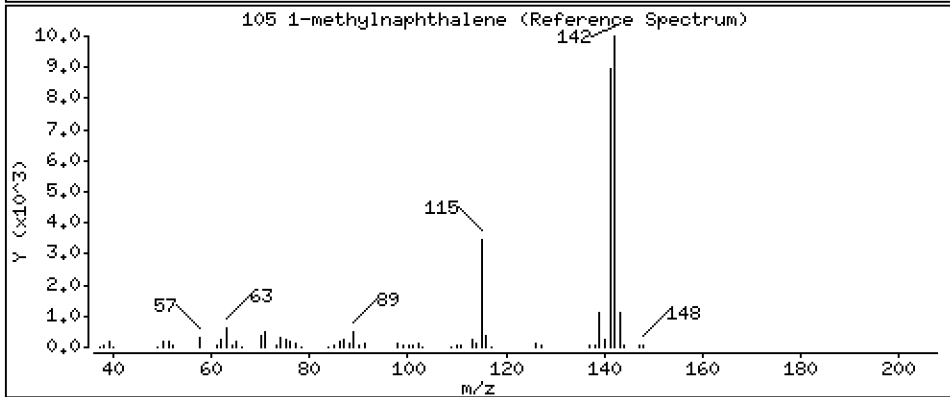
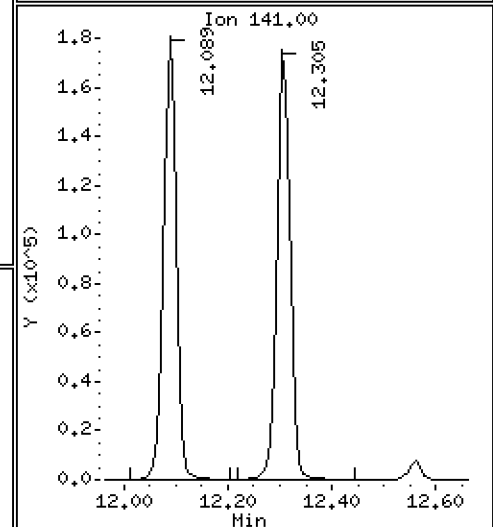
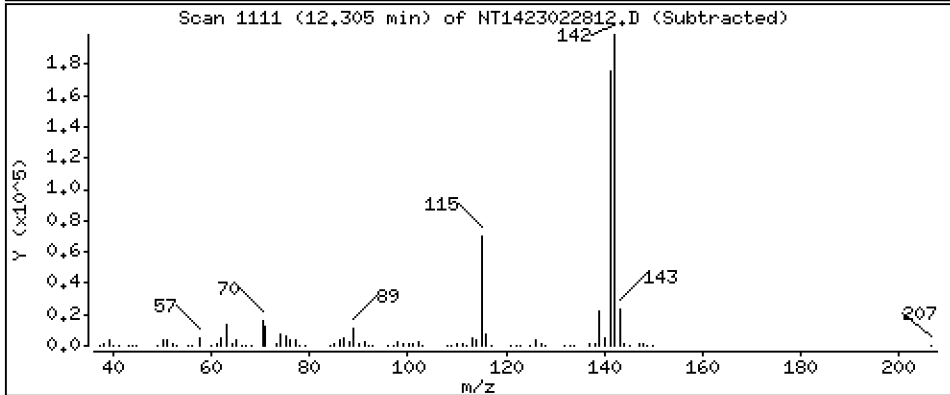
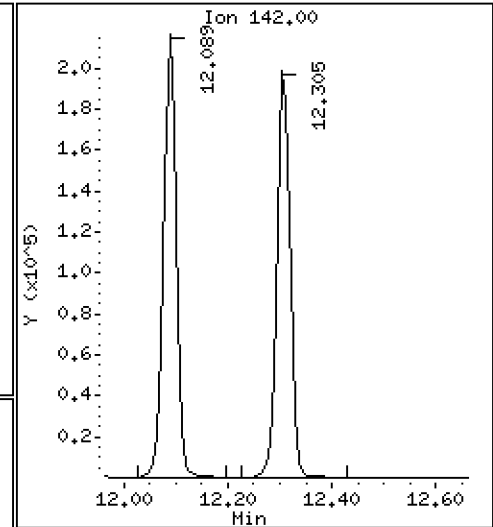
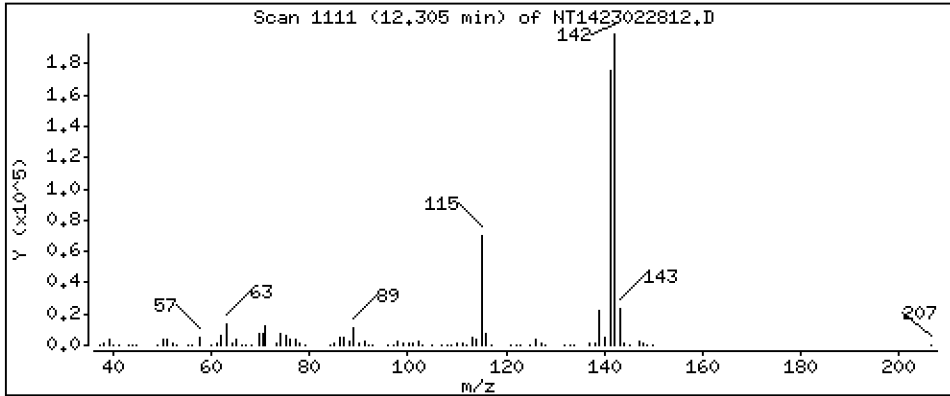
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,871 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

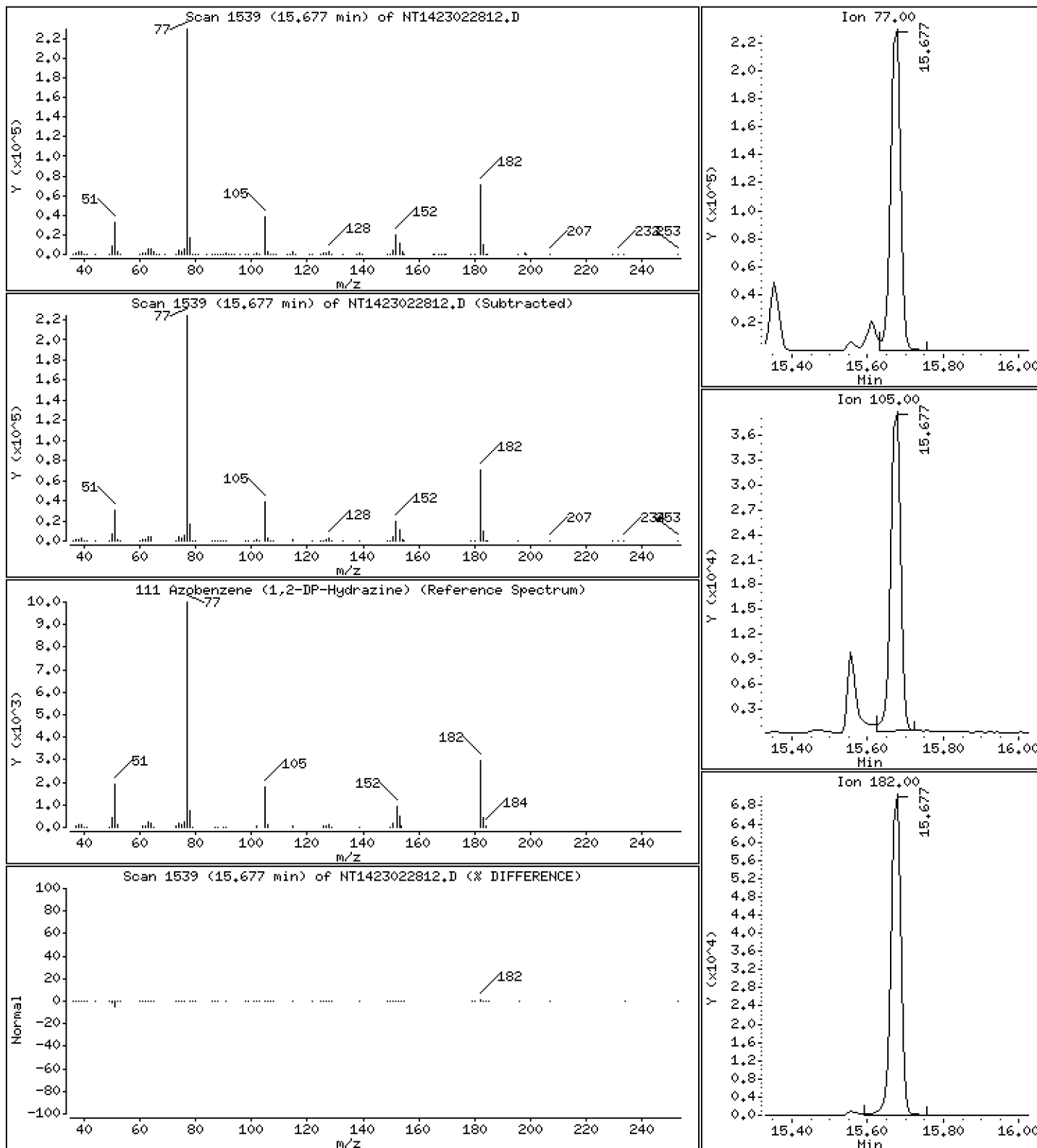
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 5,020 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

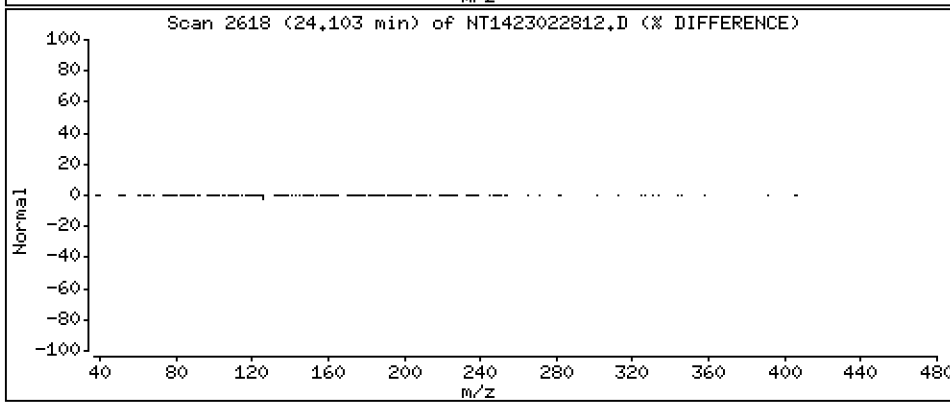
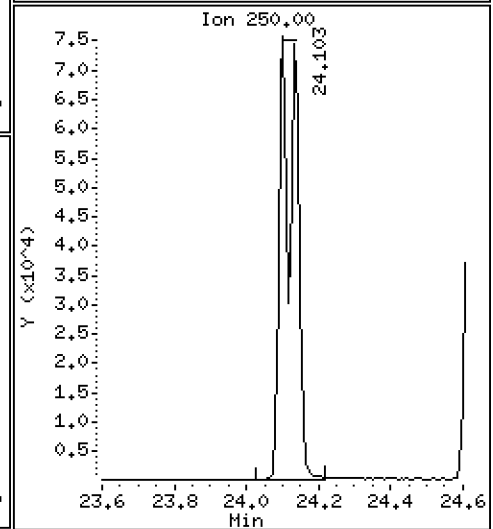
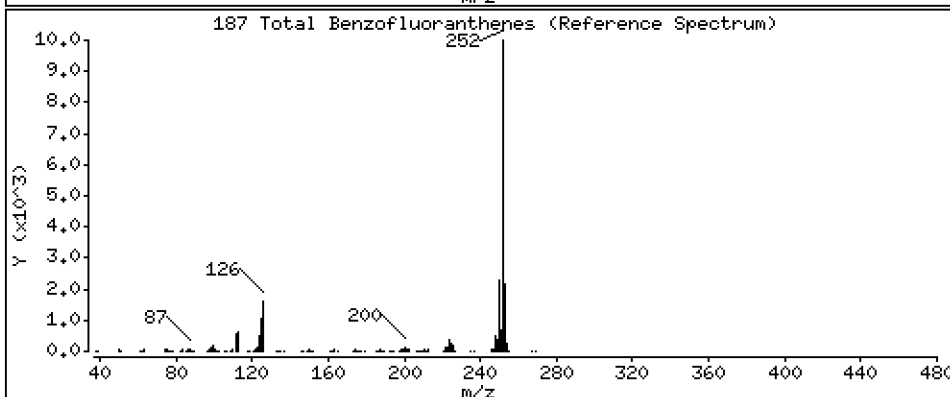
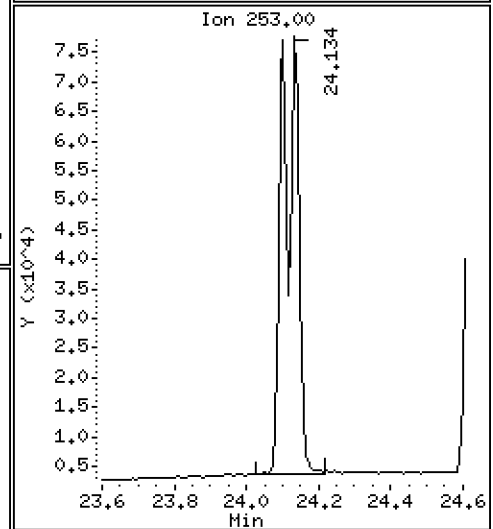
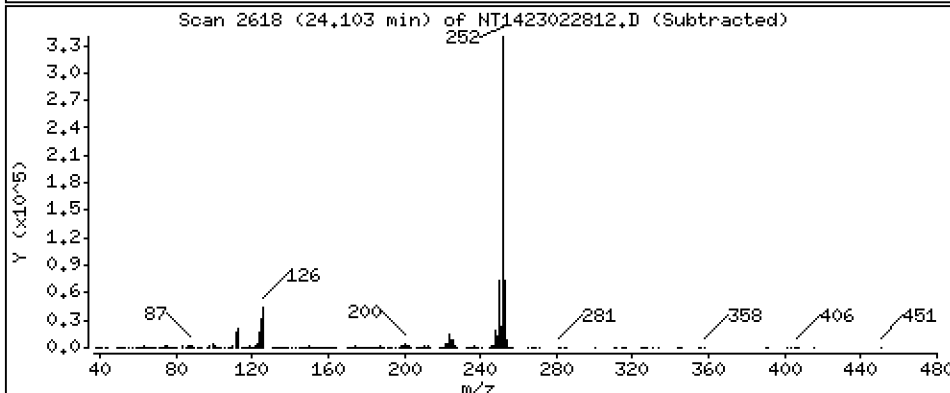
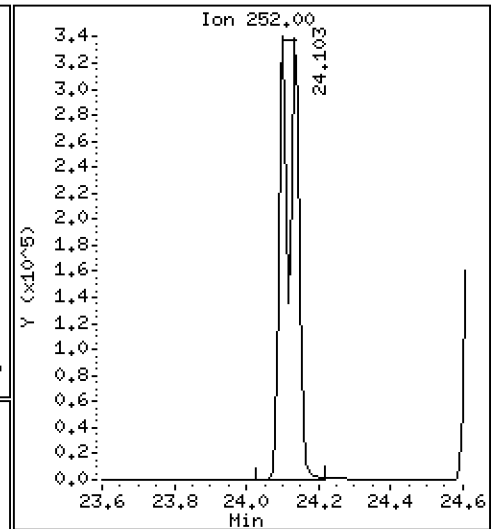
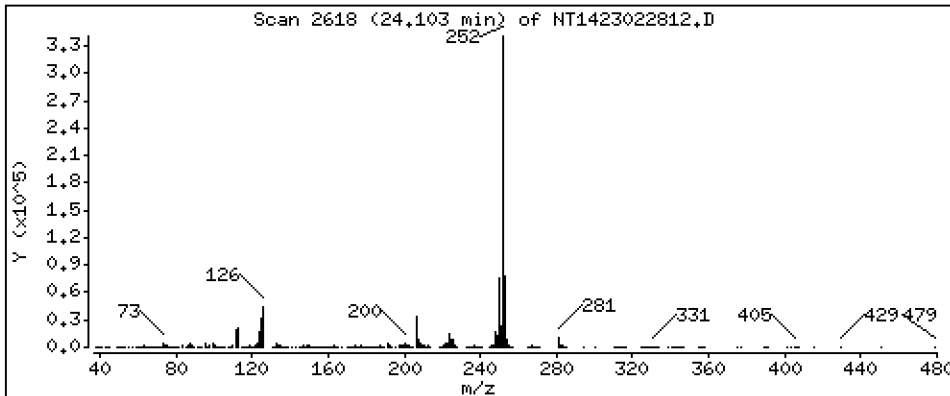
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,562 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

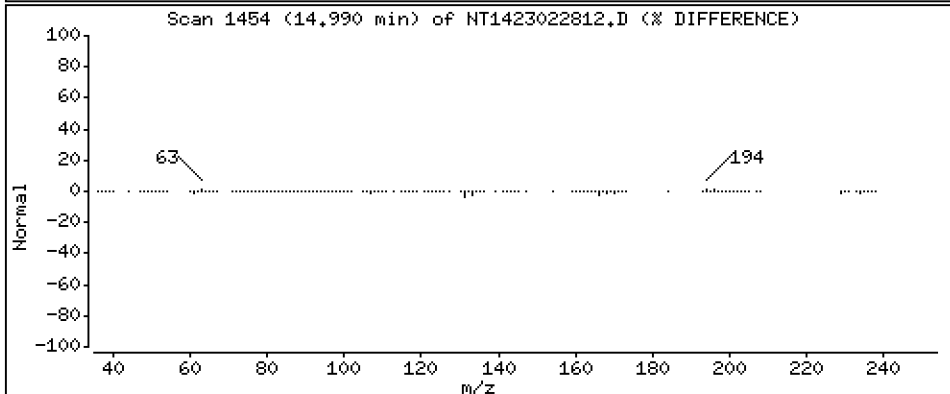
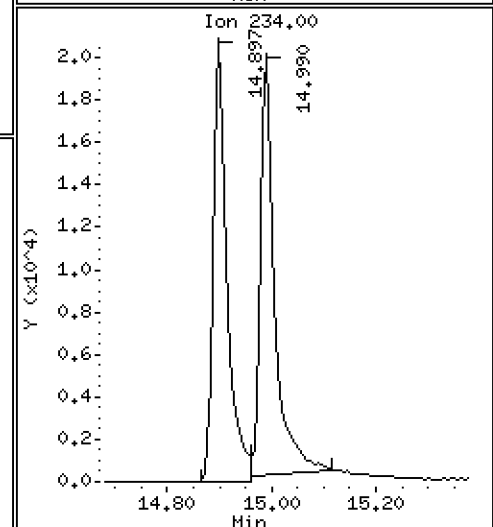
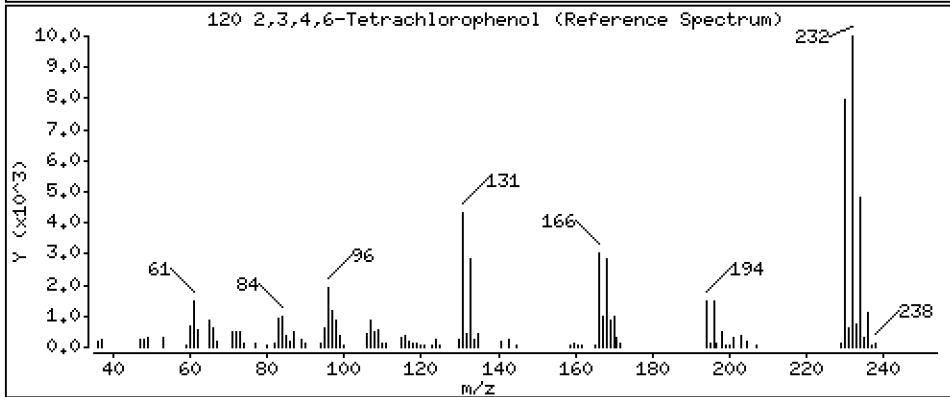
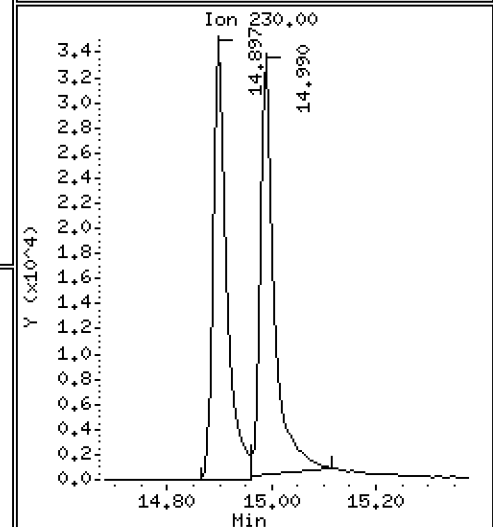
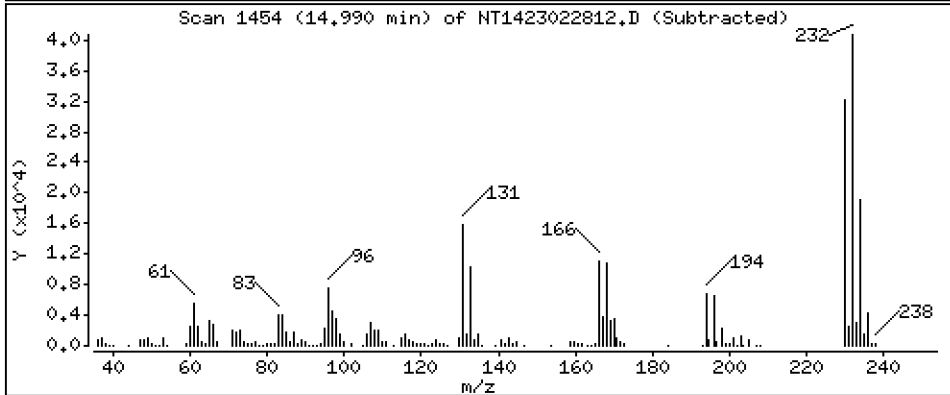
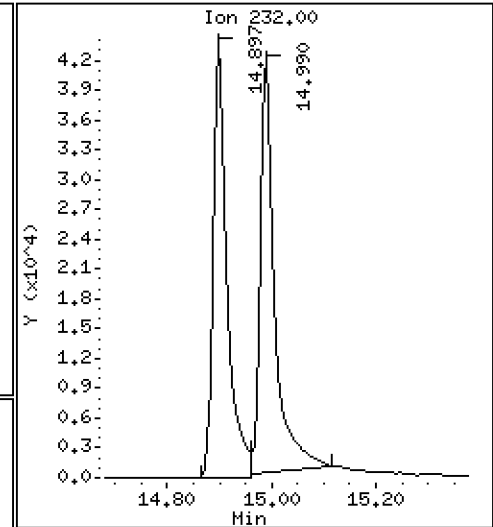
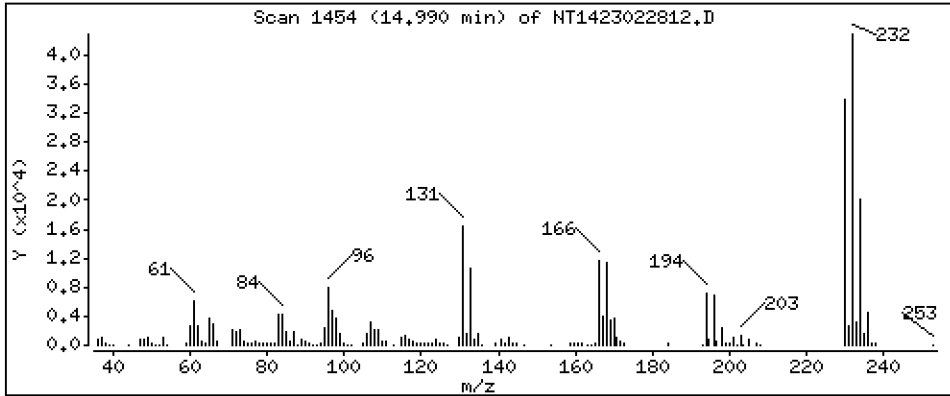
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,467 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022812.D  
 Lab Smp Id: SLB0374-SCV1  
 Inj Date : 28-FEB-2023 17:41 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-SCV1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 12  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE               | CONCENTRATIONS |           |
|---------------------------------|-------|-----|--------|--------|---------|------------------------|----------------|-----------|
|                                 |       |     |        |        |         |                        | ON-COLUMN      | FINAL     |
|                                 | MASS  |     |        |        |         |                        | (ug/mL)        | (ug/mL)   |
| =====                           | ====  |     | ====   | =====  | =====   | =====                  | =====          | =====     |
| \$ 1 2-Fluorophenol             | 112   |     |        |        |         | Compound Not Detected. |                |           |
| \$ 2 Phenol-d5                  | 99    |     |        |        |         | Compound Not Detected. |                |           |
| 3 Phenol                        | 94    |     | 7.657  | 7.681  | (0.933) | 190853                 | 3.93481        | 3.935     |
| \$ 5 2-Chlorophenol-d4          | 132   |     |        |        |         | Compound Not Detected. |                |           |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.789  | 7.805  | (0.949) | 172225                 | 5.22436        | 5.224     |
| 6 2-Chlorophenol                | 128   |     | 7.889  | 7.905  | (0.961) | 165501                 | 4.63235        | 4.632     |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.145  | 8.153  | (0.992) | 188790                 | 4.79491        | 4.795     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.207  | 8.207  | (1.000) | 105595                 | 4.00000        |           |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.238  | 8.246  | (1.004) | 186791                 | 4.80018        | 4.800     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     |        |        |         | Compound Not Detected. |                |           |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.587  | 8.595  | (1.046) | 179357                 | 4.80679        | 4.807     |
| 11 Benzyl alcohol               | 108   |     | 8.509  | 8.688  | (1.037) | 92183                  | 4.30388        | 4.304     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.804  | 8.812  | (1.073) | 55444                  | 5.50978        | 5.510     |
| 13 2-Methylphenol               | 108   |     | 8.750  | 8.774  | (1.066) | 135033                 | 4.40682        | 4.407     |
| 17 Hexachloroethane             | 117   |     | 9.161  | 9.162  | (1.116) | 74373                  | 5.08929        | 5.089     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.060  | 9.076  | (1.104) | 119882                 | 5.13841        | 5.138     |
| 15 4-Methylphenol               | 108   |     | 9.029  | 9.069  | (1.100) | 147984                 | 4.21848        | 4.218     |
| \$ 18 Nitrobenzene-d5           | 82    |     |        |        |         | Compound Not Detected. |                |           |
| 19 Nitrobenzene                 | 77    |     | 9.332  | 9.356  | (0.875) | 180410                 | 5.05930        | 5.059     |
| 20 Isophorone                   | 82    |     | 9.782  | 9.806  | (0.917) | 349645                 | 6.41026        | 6.410     |
| 21 2-Nitrophenol                | 139   |     | 9.961  | 9.992  | (0.934) | 76558                  | 4.12597        | 4.126     |
| 22 2,4-Dimethylphenol           | 107   |     | 10.054 | 10.062 | (0.943) | 126462                 | 3.89012        | 3.890     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.240 | 10.256 | (0.960) | 206654                 | 5.76434        | 5.764     |
| 24 Benzoic acid                 | 105   |     | 10.309 | 10.665 | (0.967) | 52451                  | 4.07142        | 4.071 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | 10.418 | 10.441 | (0.977) | 154075                 | 4.78253        | 4.783     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.580 | 10.588 | (0.992) | 175958                 | 4.78932        | 4.789     |
| * 27 Naphthalene-d8             | 136   |     | 10.665 | 10.665 | (1.000) | 379346                 | 4.00000        |           |
| 28 Naphthalene                  | 128   |     | 10.703 | 10.704 | (1.004) | 482268                 | 4.76613        | 4.766     |
| 29 4-Chloroaniline              | 127   |     | 10.858 | 10.889 | (1.018) | 168576                 | 3.89508        | 3.895     |
| 30 Hexachlorobutadiene          | 225   |     | 11.074 | 11.082 | (1.038) | 107684                 | 4.80334        | 4.803     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.848 | 11.872 | (1.111) | 142216                 | 4.86015        | 4.860     |
| 32 2-Methylnaphthalene          | 142   |     | 12.088 | 12.096 | (1.133) | 346575                 | 4.62518        | 4.625     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.560 | 12.560 | (0.882) | 109998                 | 4.53253        | 4.533     |

| Compounds                         | QUANT | SIG |                        |        |         |        |          | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|------------------------|--------|---------|--------|----------|----------------------|------------------|
|                                   |       |     | MASS                   | RT     | EXP RT  | REL RT | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     | 12.723                 | 12.746 | (0.893) | 107803 | 4.78817  | 4.788                |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     | 12.800                 | 12.831 | (0.898) | 113667 | 4.66940  | 4.669                |                  |
| § 36 2-Fluorobiphenyl             | 172   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 37 2-Chloronaphthalene            | 162   |     | 13.071                 | 13.079 | (0.917) | 353130 | 4.91059  | 4.911                |                  |
| 38 2-Nitroaniline                 | 65    |     | 13.357                 | 13.373 | (0.938) | 93395  | 4.97969  | 4.980                |                  |
| 39 Dimethylphthalate              | 163   |     | 13.806                 | 13.814 | (0.969) | 377389 | 5.20568  | 5.206                |                  |
| 40 Acenaphthylene                 | 152   |     | 13.930                 | 13.938 | (0.978) | 524968 | 4.97505  | 4.975                |                  |
| 41 2,6-Dinitrotoluene             | 165   |     | 13.930                 | 13.938 | (0.978) | 88793  | 5.22670  | 5.227                |                  |
| * 42 Acenaphthene-d10             | 164   |     | 14.247                 | 14.247 | (1.000) | 230482 | 4.00000  |                      |                  |
| 43 3-Nitroaniline                 | 138   |     | 14.209                 | 14.232 | (0.997) | 84775  | 4.86882  | 4.869                |                  |
| 44 Acenaphthene                   | 153   |     | 14.309                 | 14.309 | (1.004) | 322046 | 4.76684  | 4.767                |                  |
| 45 2,4-Dinitrophenol              | 184   |     | 14.433                 | 14.425 | (1.013) | 10550  | 0.98072  | 0.9807               |                  |
| 46 Dibenzofuran                   | 168   |     | 14.634                 | 14.642 | (1.027) | 507169 | 4.71794  | 4.718                |                  |
| 47 4-Nitrophenol                  | 109   |     | 14.572                 | 14.580 | (1.023) | 34204  | 3.93377  | 3.934                |                  |
| 48 2,4-Dinitrotoluene             | 165   |     | 14.726                 | 14.734 | (1.034) | 120852 | 4.94149  | 4.941                |                  |
| 50 Diethylphthalate               | 149   |     | 15.252                 | 15.260 | (1.071) | 367448 | 5.42014  | 5.420                |                  |
| 49 Fluorene                       | 166   |     | 15.337                 | 15.345 | (1.077) | 434135 | 4.79317  | 4.793                |                  |
| 51 4-Chlorophenyl-phenylether     | 204   |     | 15.353                 | 15.361 | (1.078) | 235392 | 4.88448  | 4.884                |                  |
| 52 4-Nitroaniline                 | 138   |     | 15.461                 | 15.492 | (1.085) | 78705  | 4.55998  | 4.560                |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     | 15.554                 | 15.608 | (0.902) | 49314  | 3.23357  | 3.234                |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     | 15.607                 | 15.616 | (0.905) | 286663 | 4.97950  | 4.980                |                  |
| § 55 2,4,6-Tribromophenol         | 330   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 56 4-Bromophenyl-phenylether      | 248   |     | 16.348                 | 16.348 | (0.948) | 130387 | 5.15173  | 5.152                |                  |
| 57 Hexachlorobenzene              | 284   |     | 16.634                 | 16.634 | (0.965) | 133283 | 4.78977  | 4.790                |                  |
| 58 Pentachlorophenol              | 266   |     | 17.013                 | 17.021 | (0.987) | 46829  | 3.52378  | 3.524 (M)            |                  |
| * 59 Phenanthrene-d10             | 188   |     | 17.245                 | 17.245 | (1.000) | 458109 | 4.00000  |                      |                  |
| 60 Phenanthrene                   | 178   |     | 17.291                 | 17.300 | (1.003) | 562433 | 4.61514  | 4.615                |                  |
| 61 Anthracene                     | 178   |     | 17.384                 | 17.392 | (1.008) | 486699 | 4.22447  | 4.224                |                  |
| 62 Carbazole                      | 167   |     | 17.732                 | 17.748 | (1.028) | 482242 | 4.77590  | 4.776                |                  |
| 63 Di-n-butylphthalate            | 149   |     | 18.599                 | 18.599 | (1.079) | 617439 | 4.81920  | 4.819                |                  |
| 64 Fluoranthene                   | 202   |     | 19.713                 | 19.721 | (0.881) | 680212 | 5.10377  | 5.104                |                  |
| 65 Pyrene                         | 202   |     | 20.139                 | 20.147 | (0.900) | 696600 | 4.95743  | 4.957                |                  |
| § 66 Terphenyl-d14                | 244   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 67 Butylbenzylphthalate           | 149   |     | 21.439                 | 21.447 | (0.958) | 242201 | 4.96478  | 4.965                |                  |
| 68 Benzo(a)anthracene             | 228   |     | 22.338                 | 22.338 | (0.999) | 578542 | 4.91658  | 4.917                |                  |
| * 69 Chrysene-d12                 | 240   |     | 22.368                 | 22.361 | (1.000) | 351284 | 4.00000  |                      |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     | 22.322                 | 22.330 | (0.998) | 345809 | 10.2906  | 10.29                |                  |
| 71 Chrysene                       | 228   |     | 22.407                 | 22.415 | (1.002) | 515316 | 4.55608  | 4.556                |                  |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 22.500                 | 22.500 | (0.958) | 338426 | 5.27680  | 5.277                |                  |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 23.476                 | 23.476 | (1.000) | 422614 | 4.00000  |                      |                  |
| 73 Di-n-octylphthalate            | 149   |     | 23.483                 | 23.484 | (1.000) | 576704 | 5.18281  | 5.183                |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 24.103                 | 24.103 | (0.975) | 541825 | 4.87157  | 4.872                |                  |
| 75 Benzo(k)fluoranthene           | 252   |     | 24.134                 | 24.134 | (0.977) | 559543 | 4.66326  | 4.663                |                  |
| 76 Benzo(a)pyrene                 | 252   |     | 24.614                 | 24.622 | (0.996) | 466252 | 4.88626  | 4.886                |                  |
| * 77 Perylene-d12                 | 264   |     | 24.714                 | 24.715 | (1.000) | 336637 | 4.00000  |                      |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 26.785                 | 26.793 | (1.084) | 587567 | 4.89167  | 4.892                |                  |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 26.800                 | 26.800 | (1.084) | 500585 | 4.90681  | 4.907                |                  |
| 80 Benzo(g,h,i)perylene           | 276   |     | 27.383                 | 27.391 | (1.108) | 508988 | 4.85849  | 4.858                |                  |
| 90 N-Nitrosodimethylamine         | 74    |     | 3.988                  | 4.104  | (0.486) | 94230  | 4.50713  | 4.507                |                  |
| 91 Aniline                        | 93    |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 93 Benzidine                      | 184   |     | 19.999                 | 20.015 | (0.894) | 253209 | 4.50911  | 4.509                |                  |
| 103 Pyridine                      | 79    |     | 4.004                  | 4.027  | (0.488) | 137878 | 2.19631  | 2.196                |                  |
| 105 1-methylnaphthalene           | 142   |     | 12.305                 | 12.313 | (1.154) | 335999 | 4.87061  | 4.871                |                  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     | 15.677                 | 15.677 | (1.100) | 390699 | 5.02002  | 5.020                |                  |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 24.103 | 24.103 | (0.975) | 1040320  | 9.56184              | 9.562            |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 14.989 | 15.029 | (1.052) | 91471    | 3.46740              | 3.467            |

QC Flag Legend

M - Compound response manually integrated.



ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023  
 Lab File ID: NT1423022812.D Calibration Time: 12:51  
 Lab Smp Id: SLB0374-SCV1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 114351   | 57176      | 228702  | 105595 | -7.66  |
| 27 Naphthalene-d8     | 408655   | 204328     | 817310  | 379346 | -7.17  |
| 42 Acenaphthene-d10   | 254000   | 127000     | 508000  | 230482 | -9.26  |
| 59 Phenanthrene-d10   | 490626   | 245313     | 981252  | 458109 | -6.63  |
| 69 Chrysene-d12       | 390400   | 195200     | 780800  | 351284 | -10.02 |
| 134 Di-n-octylphthala | 500829   | 250415     | 1001658 | 422614 | -15.62 |
| 77 Perylene-d12       | 375675   | 187838     | 751350  | 336637 | -10.39 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.21   | -0.09 |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.67  | 0.00  |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.25  | 0.00  |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.25  | -0.04 |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.37  | -0.03 |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.48  | -0.03 |
| 77 Perylene-d12       | 24.72    | 24.22    | 25.22 | 24.71  | -0.03 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022812.D

Lab ID: SLB0374-SCV1  
nt14.i, ABN.m, 28-FEB-2023 17:41

| RT     | CO-ELUTION COMPOUNDS                  |
|--------|---------------------------------------|
| 13.930 | Acenaphthylene and 2,6-Dinitrotoluene |

\*\* FIRST SURROGATE NOT FOUND. ICAL Check not performed \*\*

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND               |
|-------|---------|---------|------------------------|
| 1.037 | 1.059   | -0.0218 | Benzyl alcohol         |
| 0.967 | 0.000   | 0.9667  | Benzoic acid           |
| 1.013 | 0.000   | 1.0130  | 2,4-Dinitrophenol      |
| 1.023 | 0.000   | 1.0228  | 4-Nitrophenol          |
| 0.987 | 0.000   | 0.9865  | Pentachlorophenol      |
| 0.486 | 0.500   | -0.0141 | N-Nitrosodimethylamine |
| 0.488 | 0.000   | 0.4879  | Pyridine               |

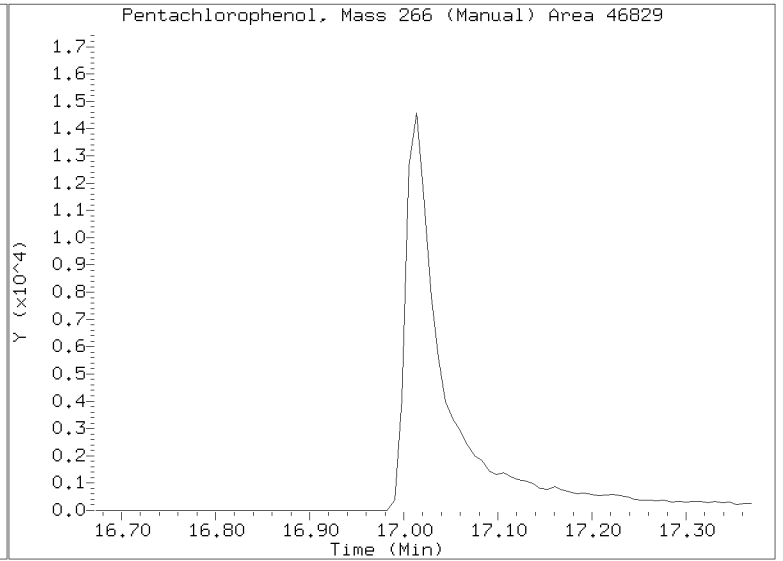
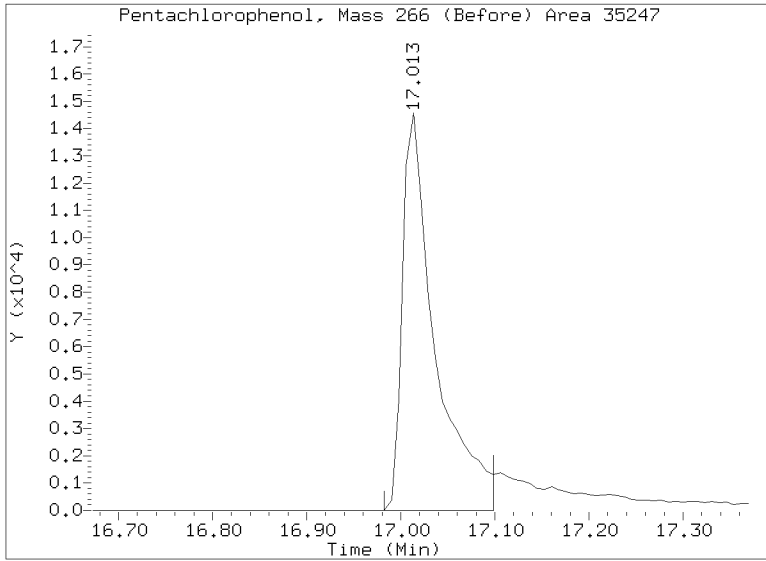
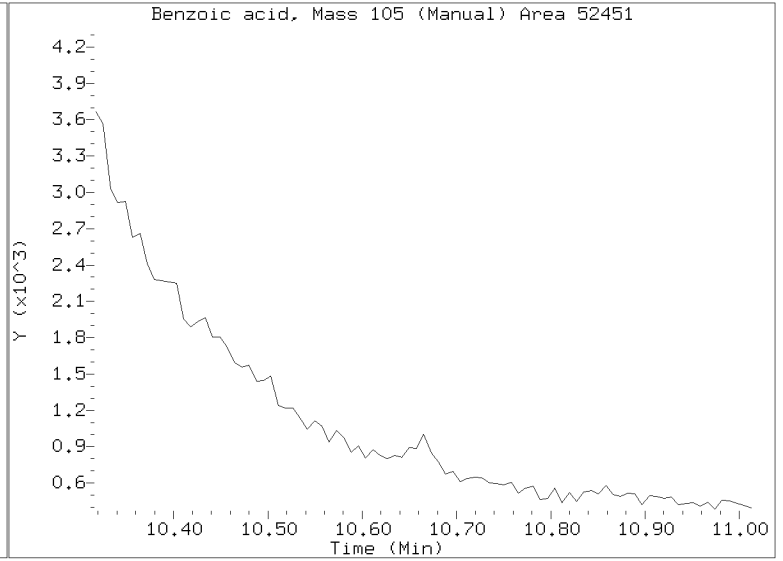
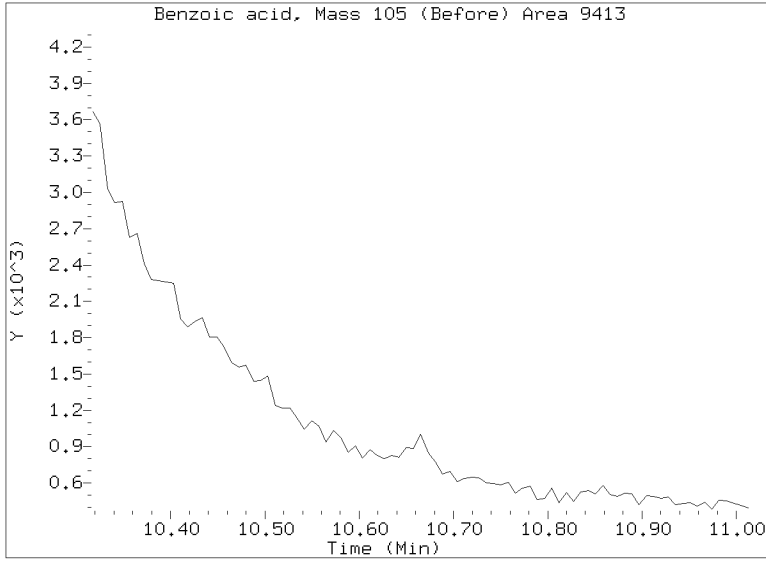
RRT check based on Ccal File: NT1423022808.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022812.D  
Injection Date: 28-FEB-2023 17:41  
Lab ID:SLB0374-SCV1 Client ID:  
Report Date: 03/10/2023 13:21





**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00046

**Laboratory ID:** SLC0228-SCV1

**Sequence:** SLC0228

**Sequence Name:** SCV 5.0

**Standard ID:** L002833

| ANALYTE                    | EXPECTED<br>(ug/mL) | FOUND<br>(ug/mL) | % DRIFT | QC LIMIT |
|----------------------------|---------------------|------------------|---------|----------|
| Phenol                     | 5.0000              | 4.4              | -11.8   | 20.00    |
| 4-Methylphenol             | 5.0000              | 4.4              | -12.7   | 20.00    |
| Naphthalene                | 5.0000              | 4.7              | -5.7    | 20.00    |
| 2-Methylnaphthalene        | 5.0000              | 4.6              | -8.1    | 20.00    |
| Acenaphthylene             | 5.0000              | 4.8              | -3.9    | 20.00    |
| Dimethylphthalate          | 5.0000              | 4.9              | -1.3    | 20.00    |
| Acenaphthene               | 5.0000              | 4.8              | -4.5    | 20.00    |
| Dibenzofuran               | 5.0000              | 4.6              | -7.0    | 20.00    |
| Fluorene                   | 5.0000              | 4.7              | -5.8    | 20.00    |
| Phenanthrene               | 5.0000              | 4.6              | -8.0    | 20.00    |
| Anthracene                 | 5.0000              | 4.2              | -16.7   | 20.00    |
| Fluoranthene               | 5.0000              | 4.5              | -10.6   | 20.00    |
| Pyrene                     | 5.0000              | 4.3              | -13.2   | 20.00    |
| Butylbenzylphthalate       | 5.0000              | 4.8              | -3.3    | 20.00    |
| Benzo(a)anthracene         | 5.0000              | 4.6              | -7.1    | 20.00    |
| Chrysene                   | 5.0000              | 4.5              | -9.8    | 20.00    |
| bis(2-Ethylhexyl)phthalate | 5.0000              | 4.7              | -6.4    | 20.00    |
| Benzofluoranthenes, Total  | 10.000              | 9.5              | -5.2    | 20.00    |
| Benzo(a)pyrene             | 5.0000              | 4.9              | -2.5    | 20.00    |
| Indeno(1,2,3-cd)pyrene     | 5.0000              | 4.6              | -8.5    | 20.00    |
| Dibenzo(a,h)anthracene     | 5.0000              | 4.5              | -9.1    | 20.00    |
| Benzo(g,h,i)perylene       | 5.0000              | 4.6              | -8.2    | 20.00    |

\* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031511.D

Date: 16-MAR-2023 02:16

Client ID:

Sample Info: SLC0228-SCV1

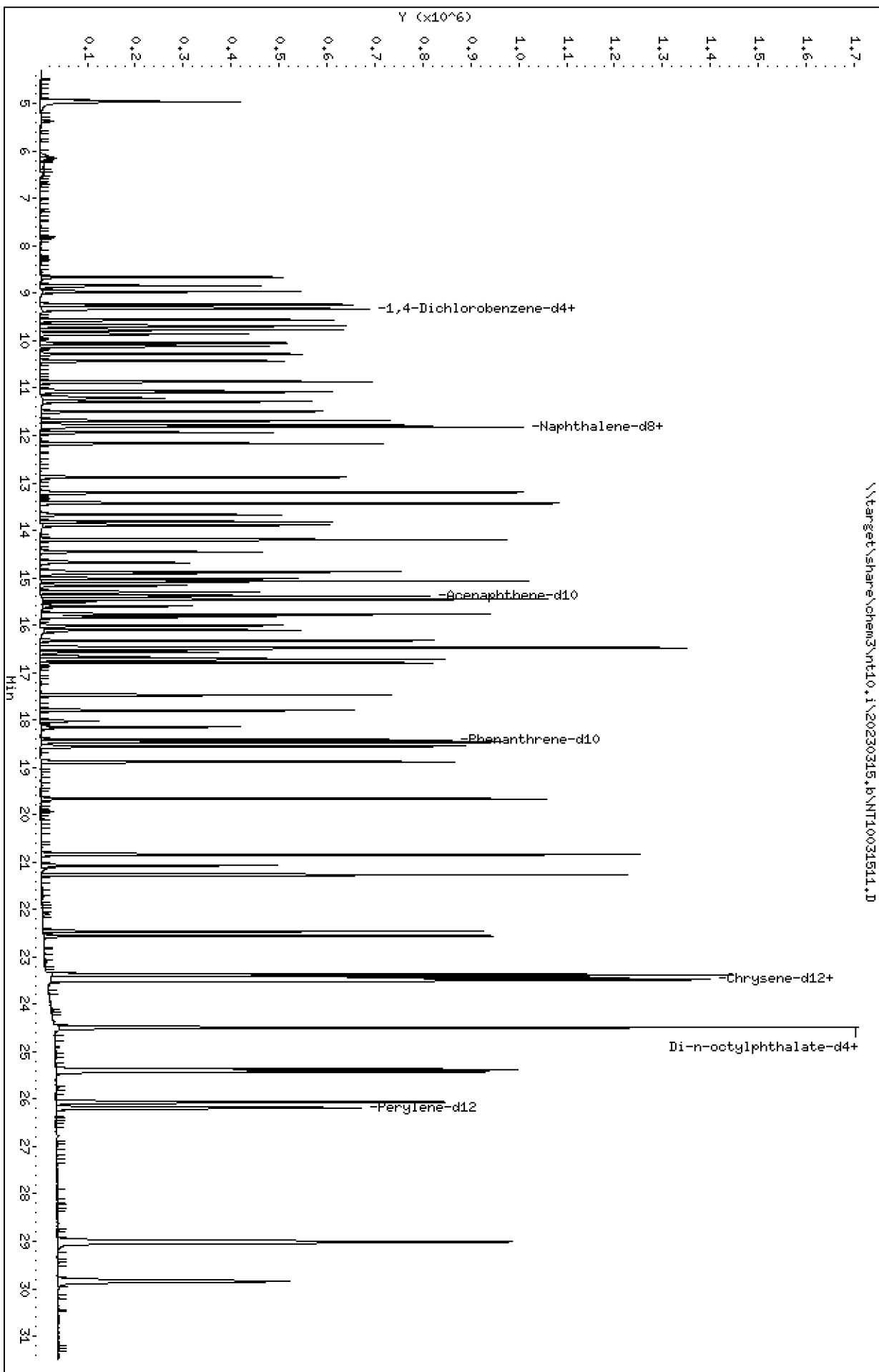
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20230315.6\NT10031511.D



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

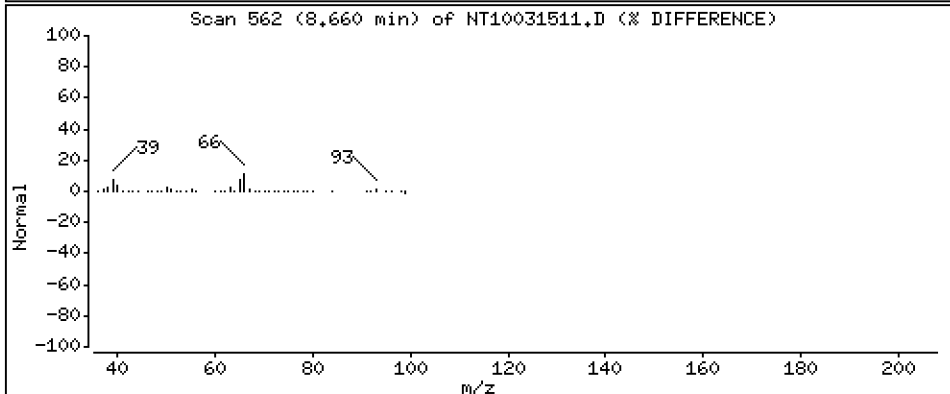
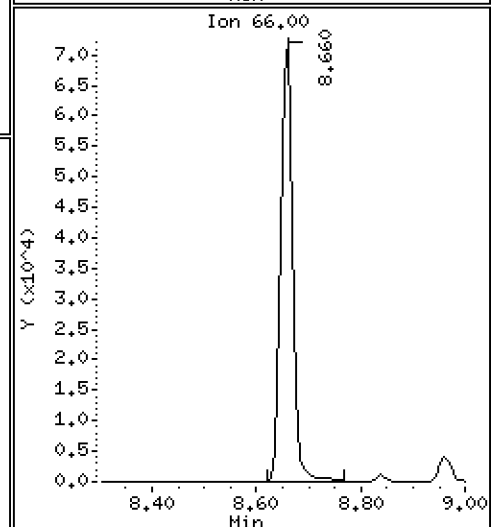
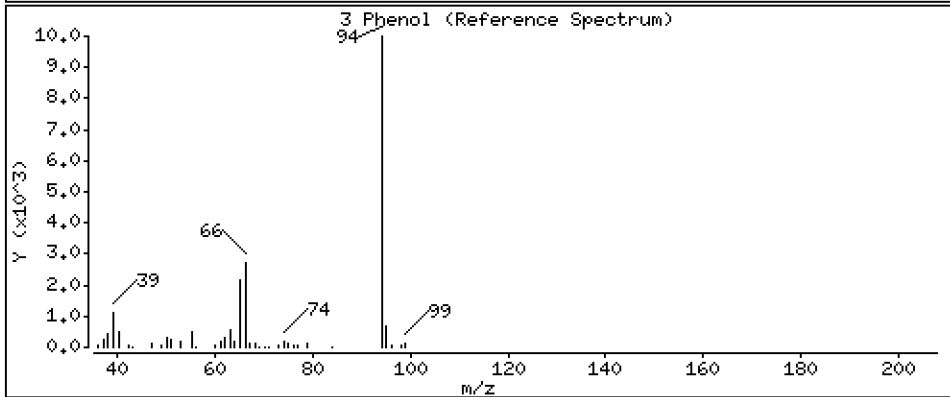
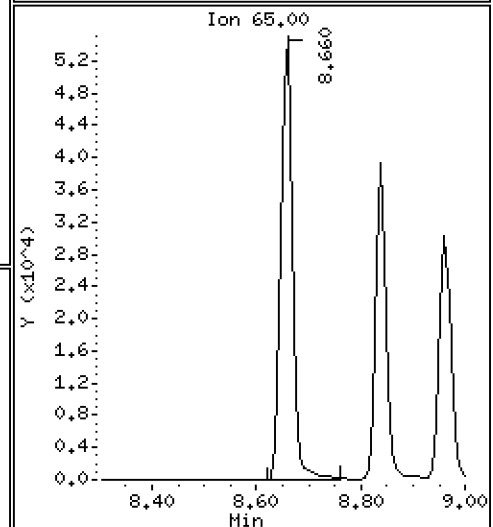
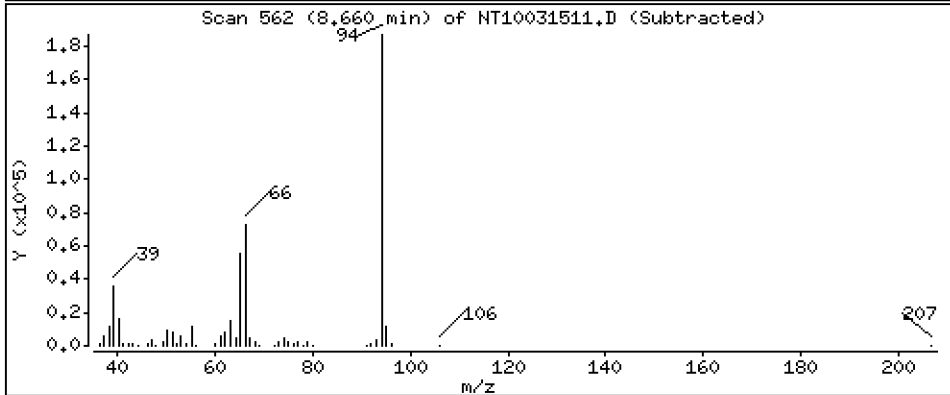
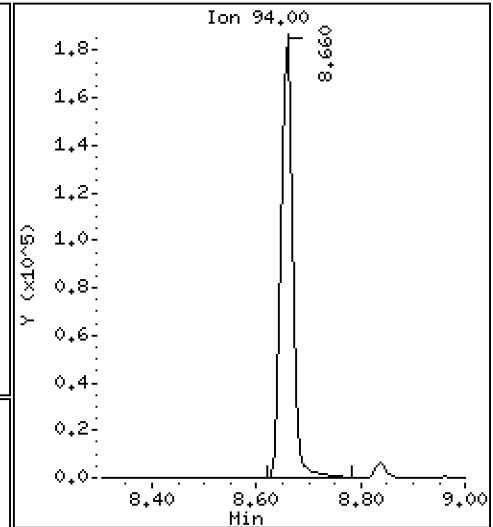
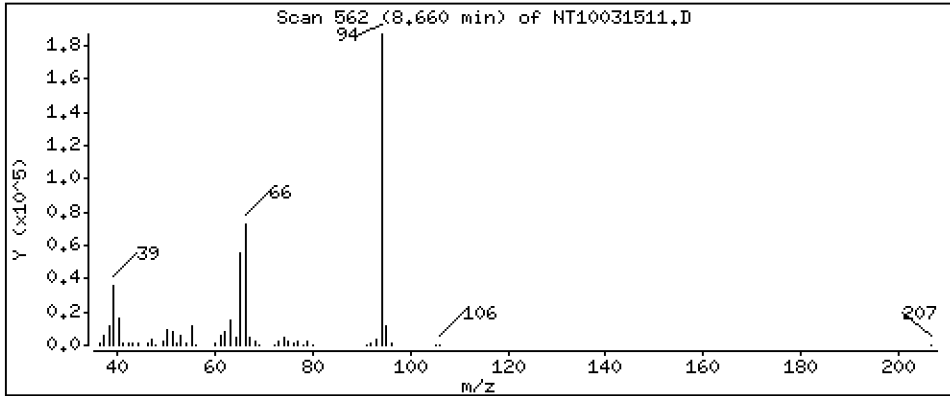
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 4,412 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

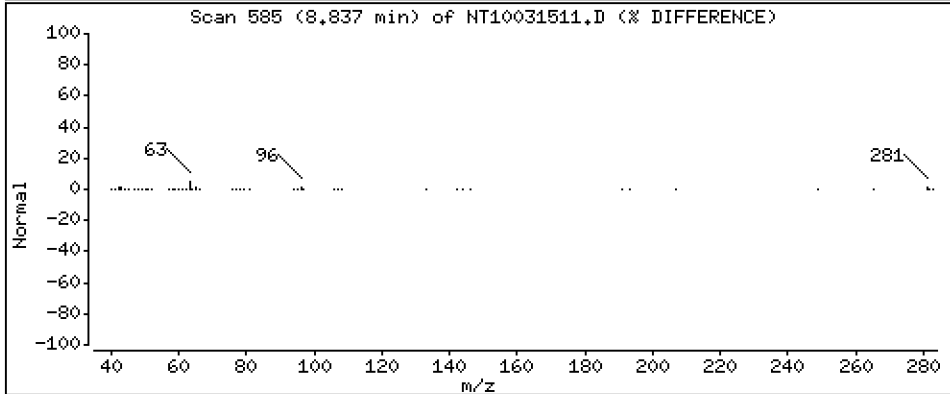
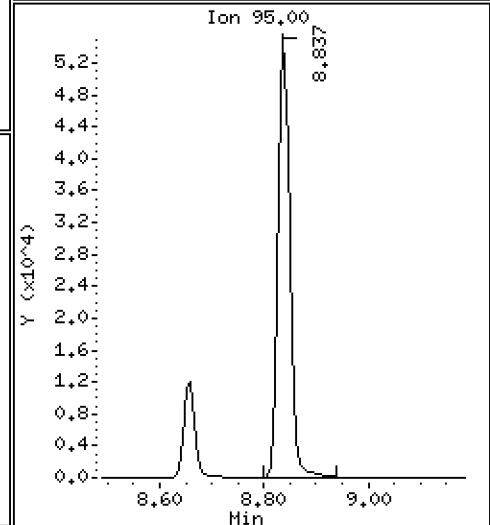
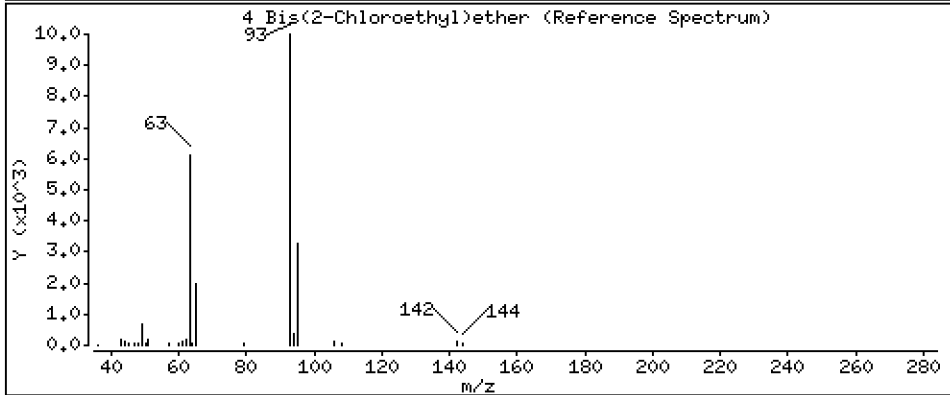
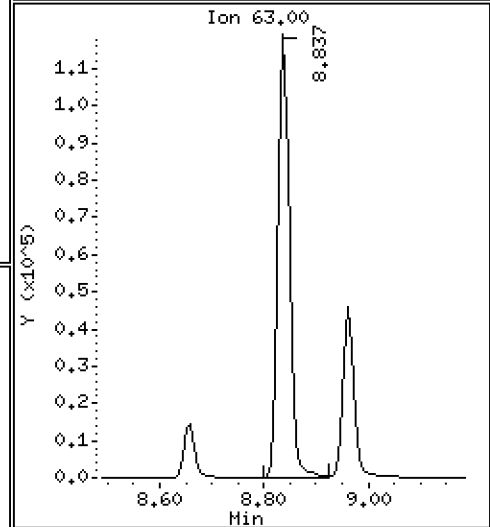
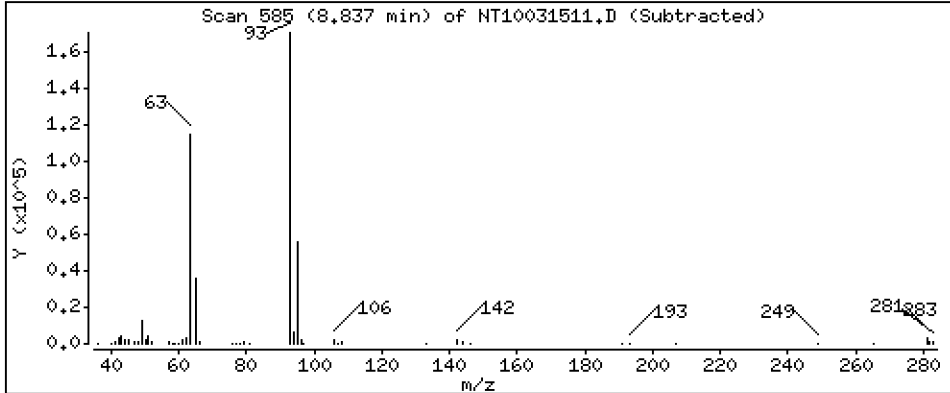
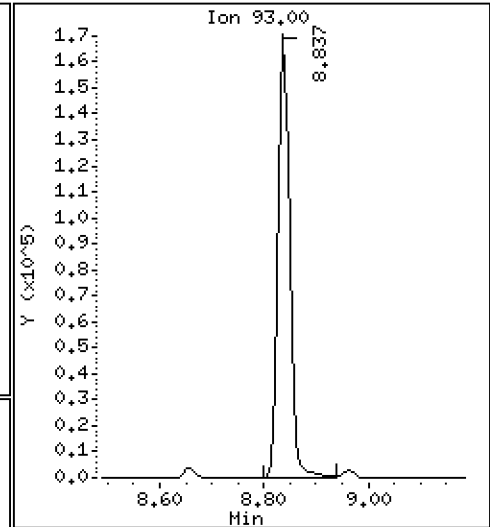
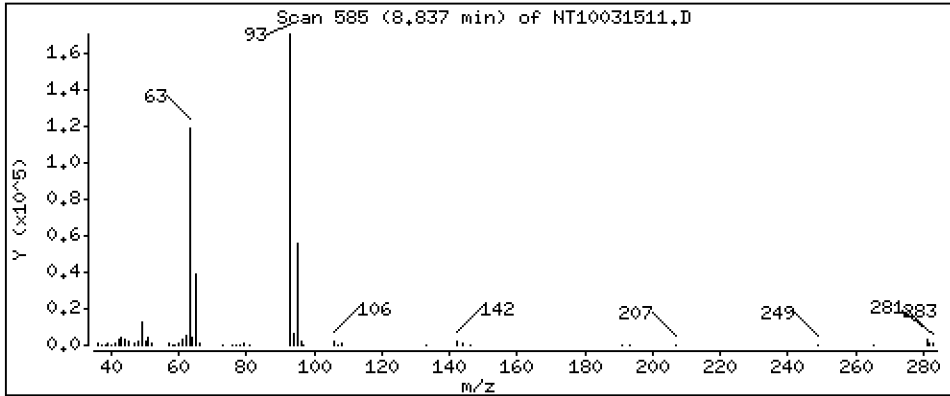
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 5,258 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

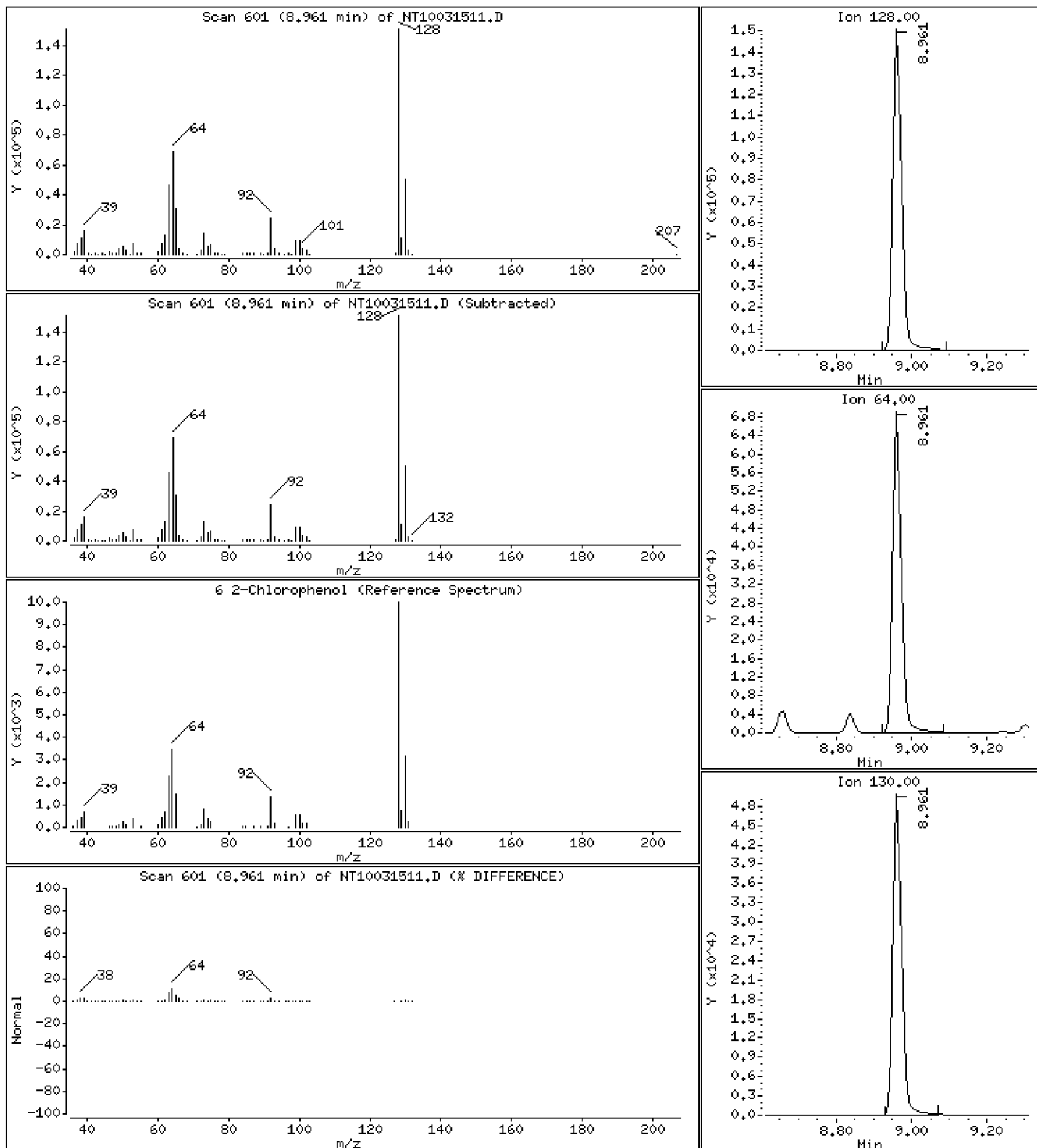
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,277 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

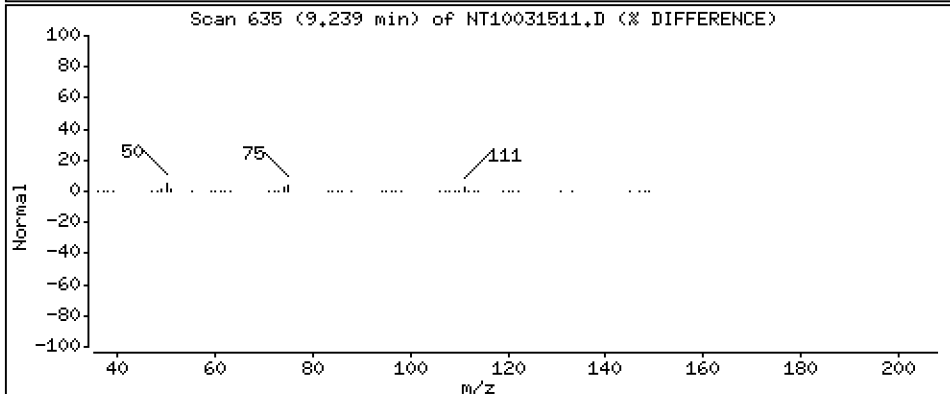
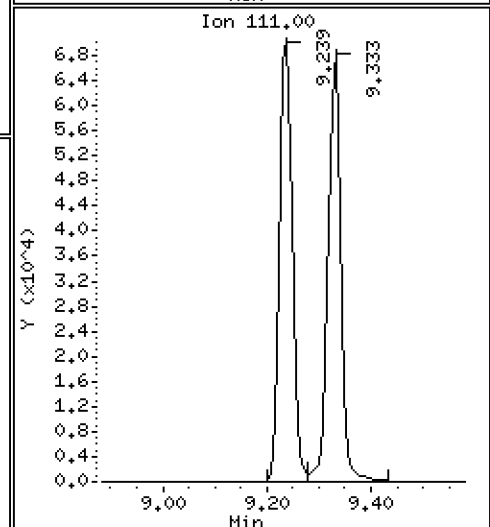
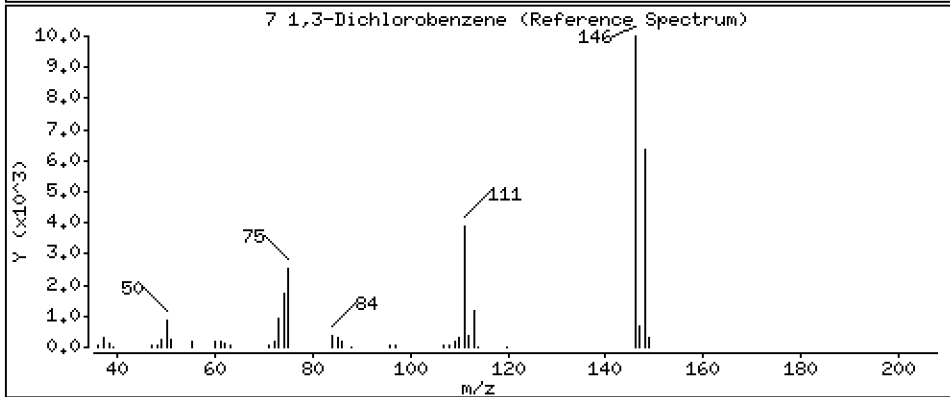
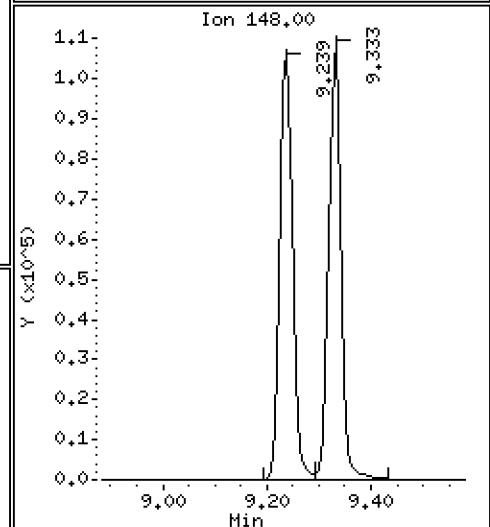
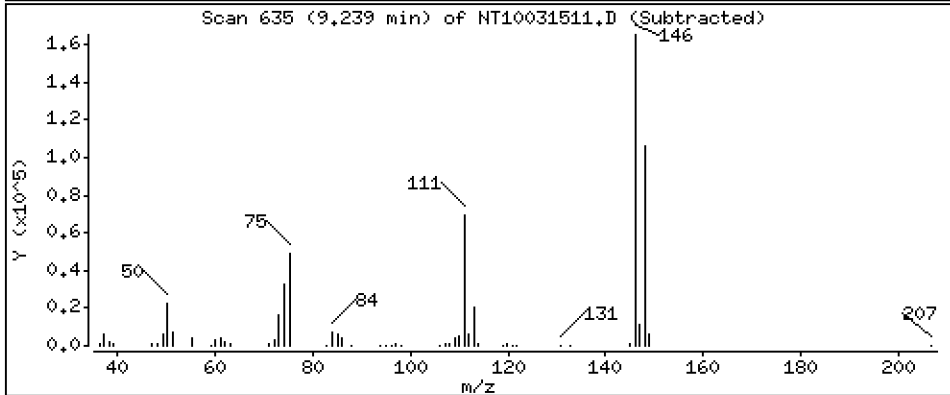
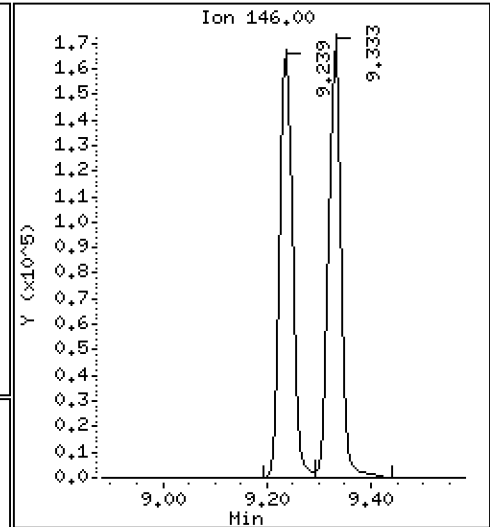
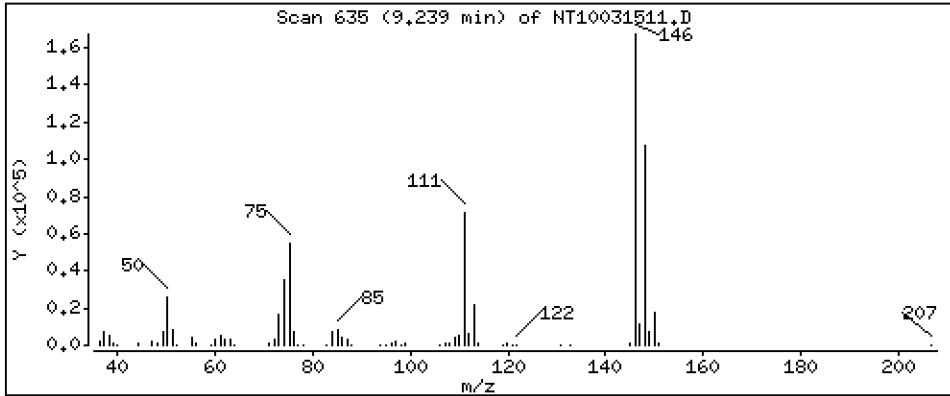
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 4.772 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

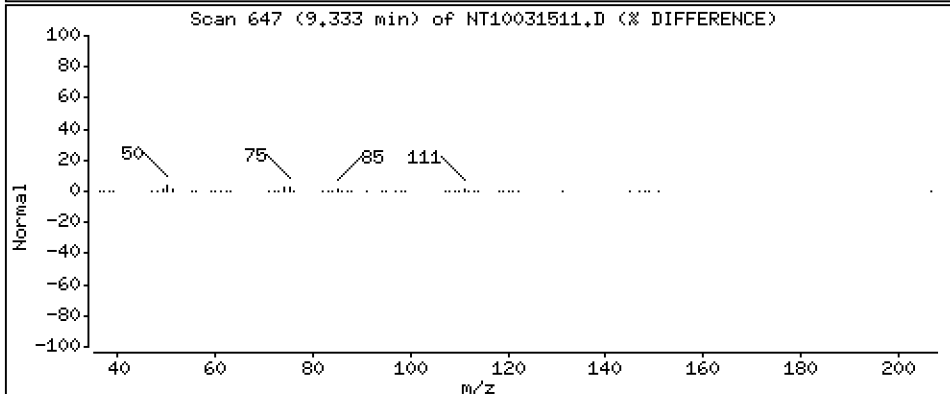
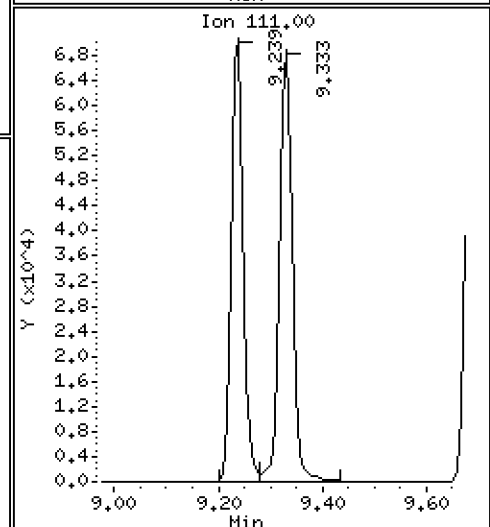
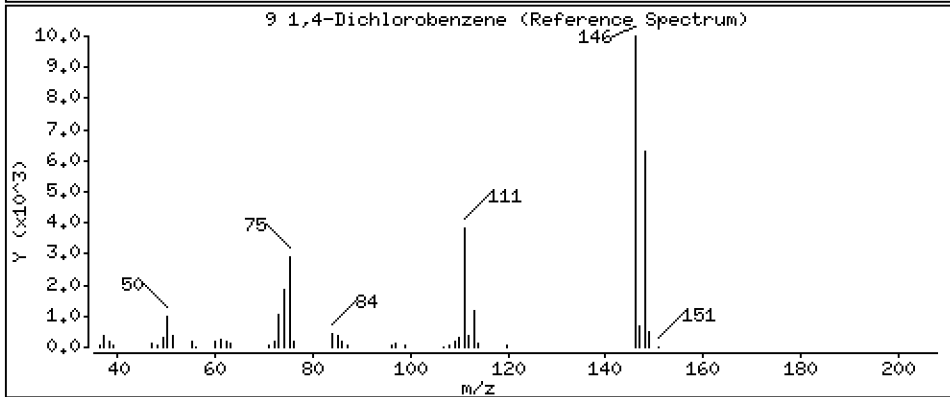
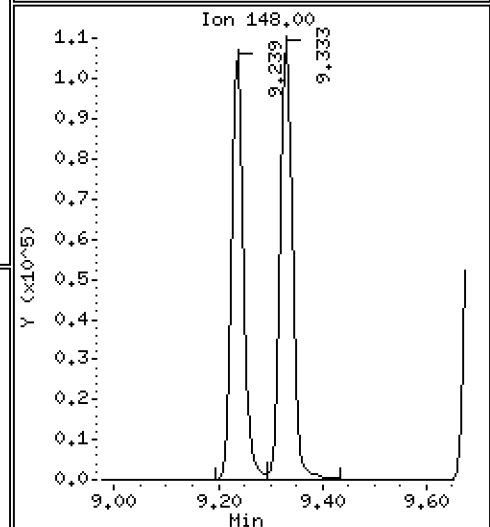
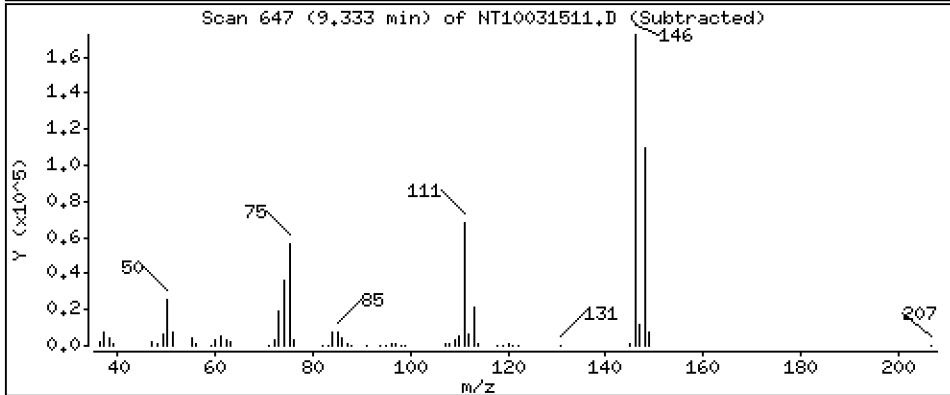
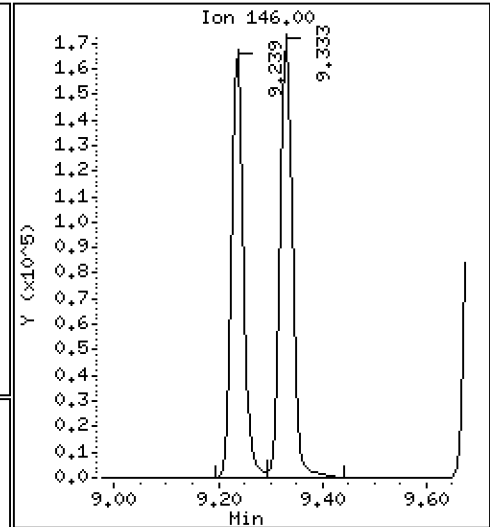
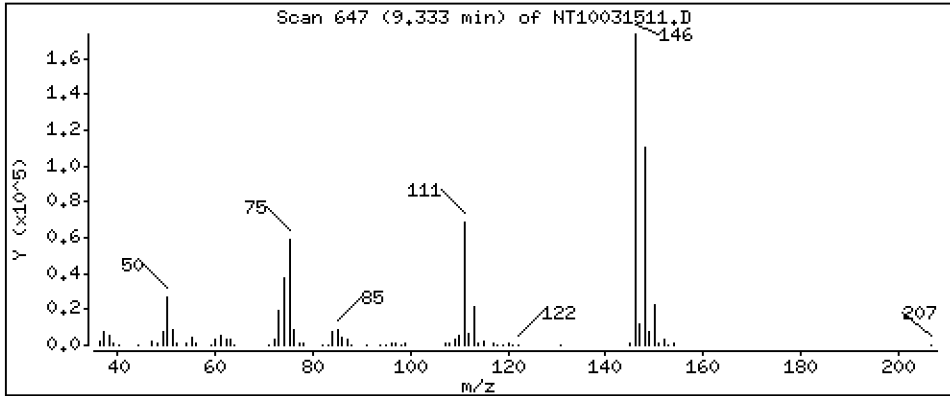
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 4.913 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

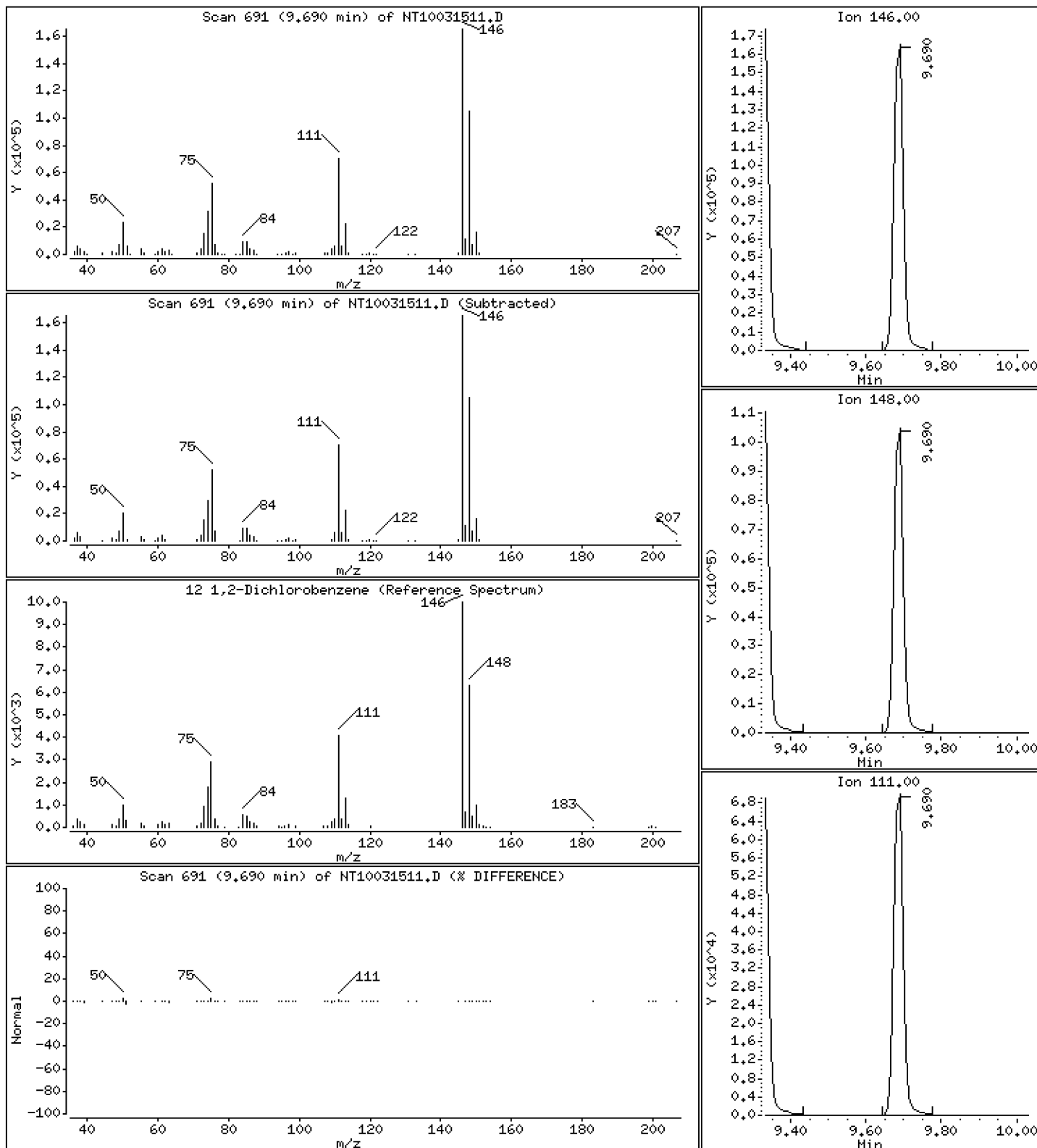
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,882 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

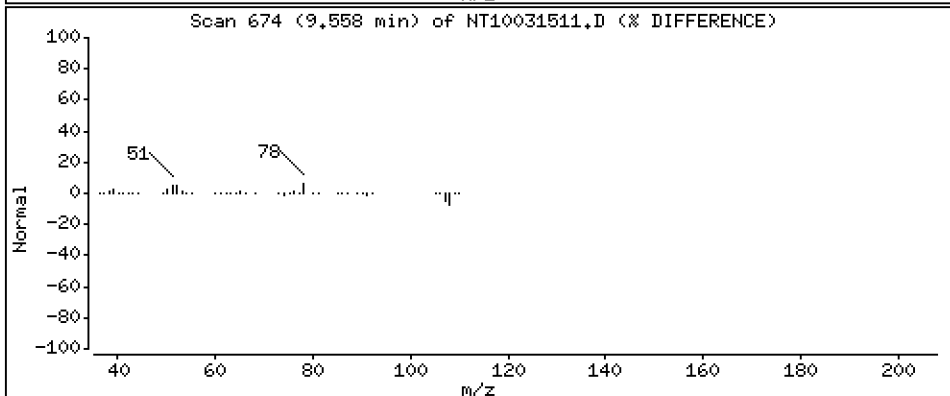
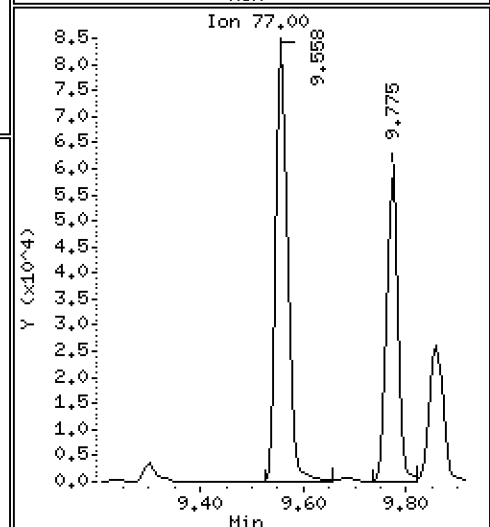
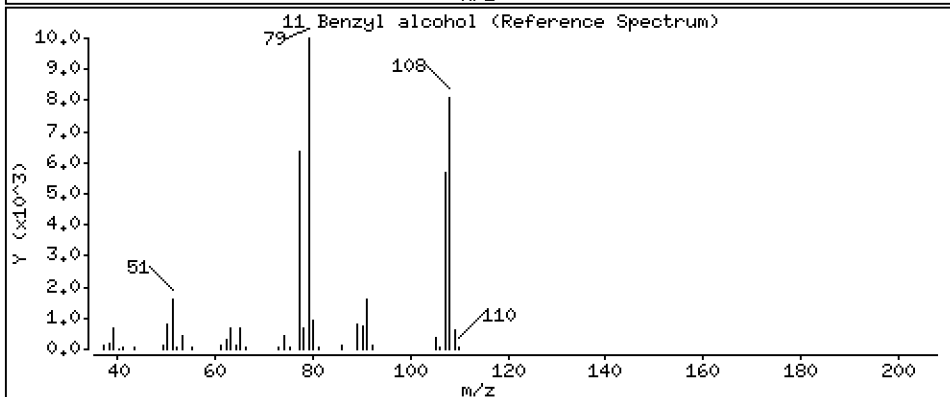
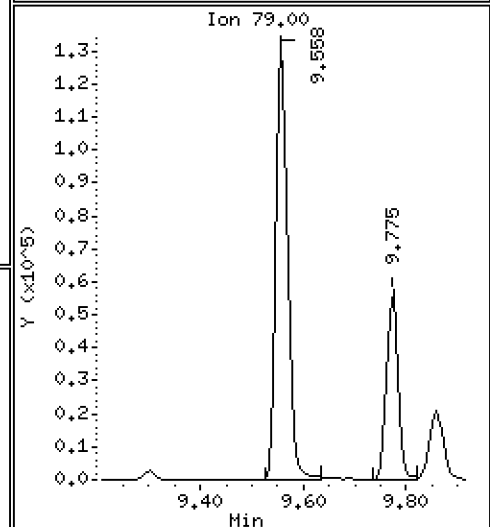
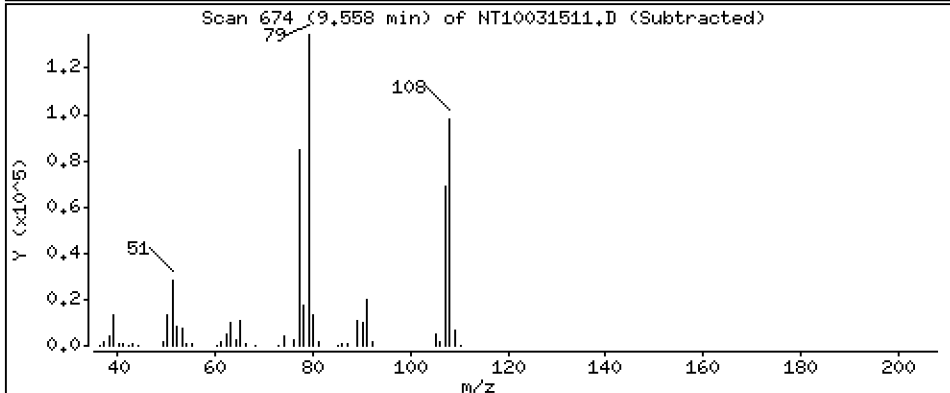
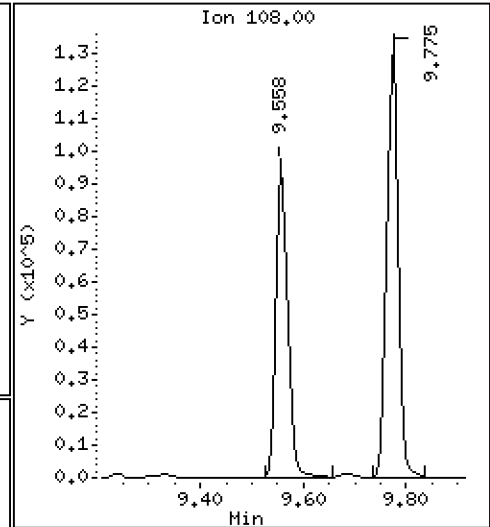
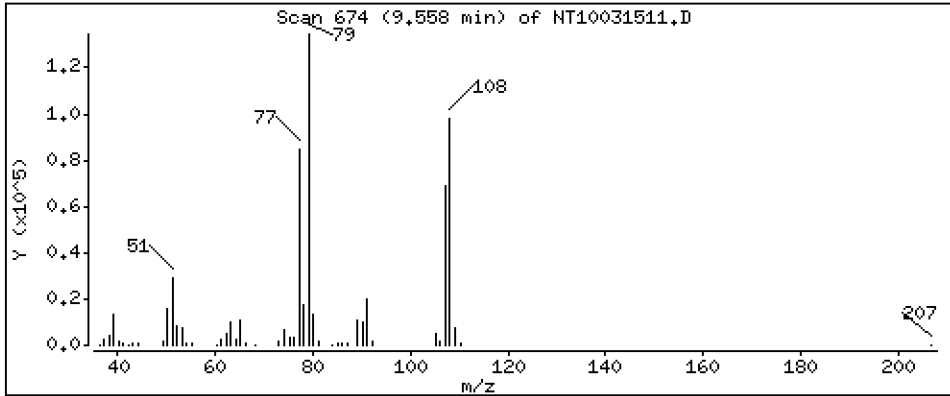
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.927 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

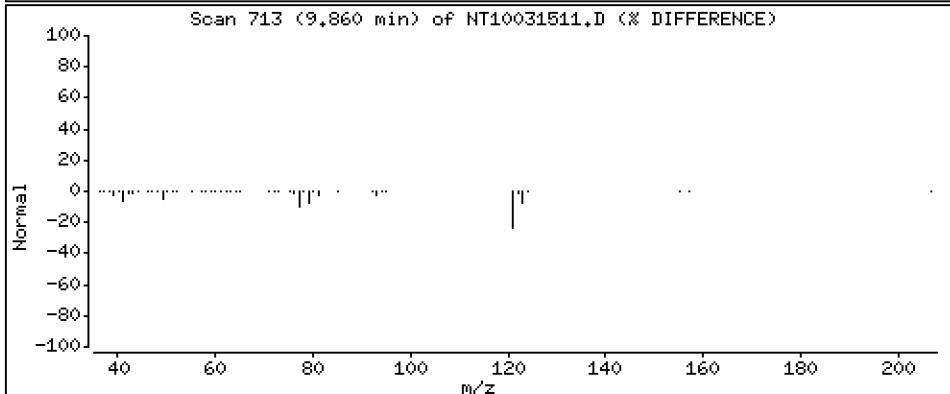
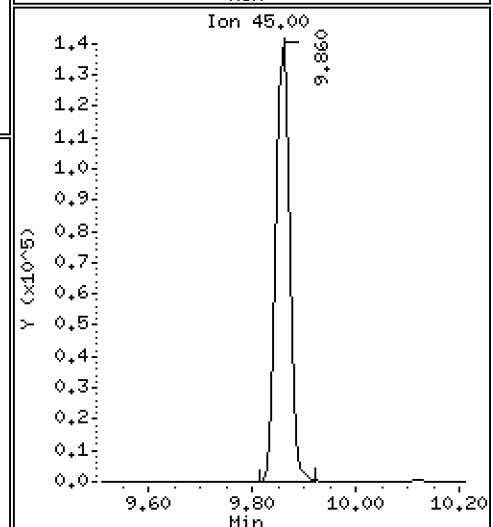
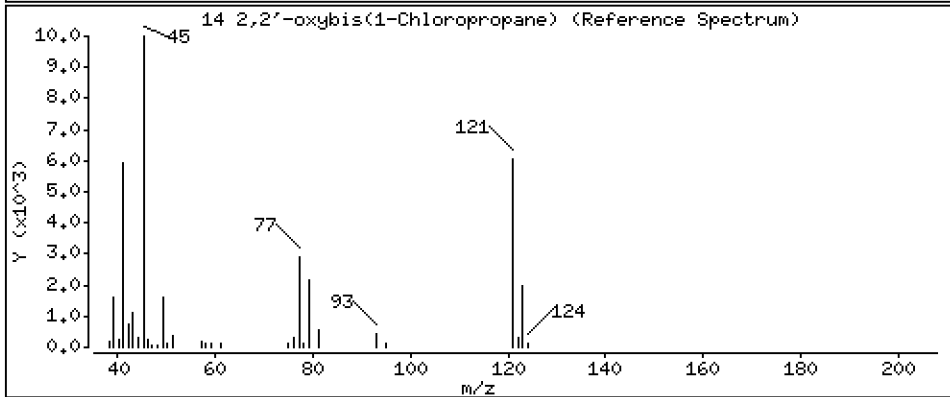
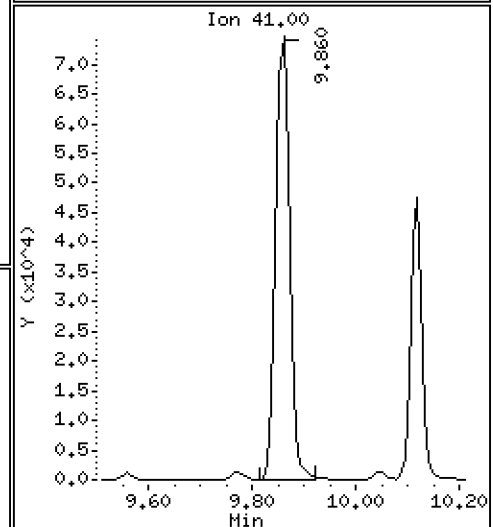
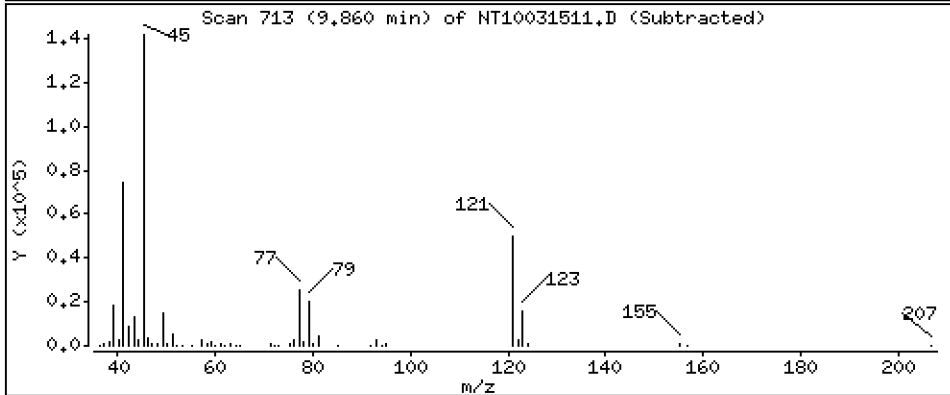
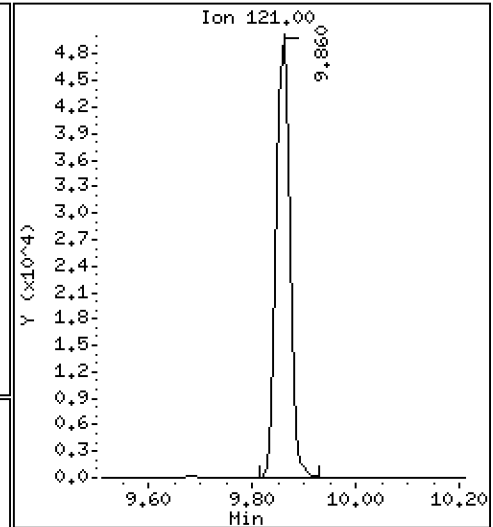
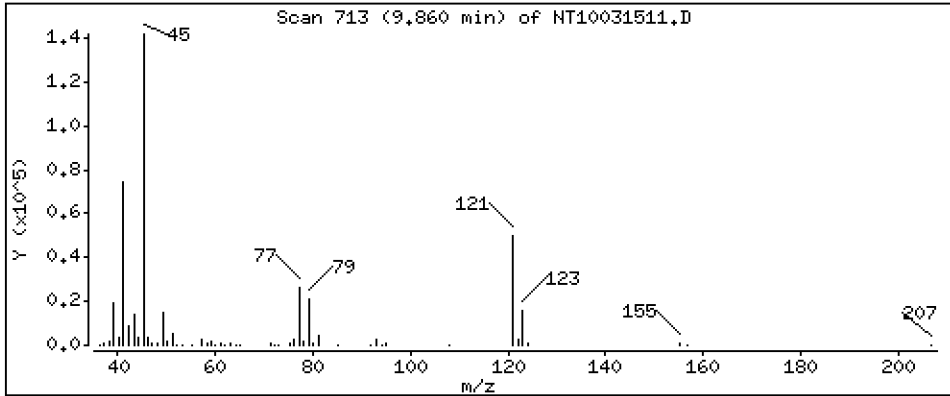
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 6,214 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

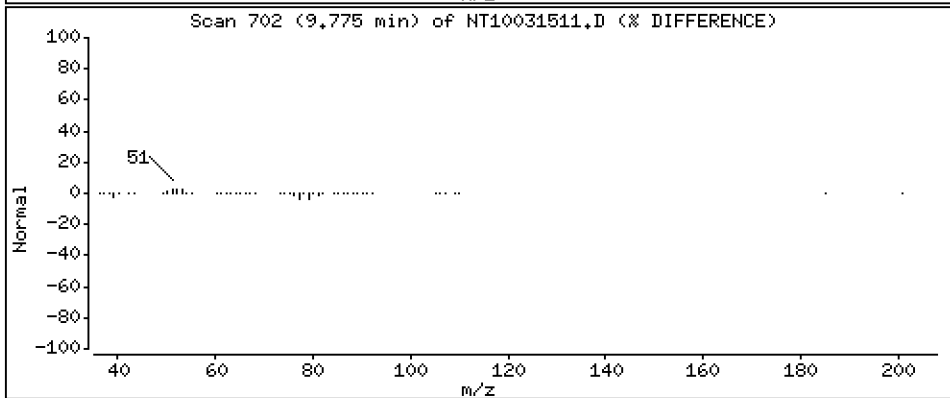
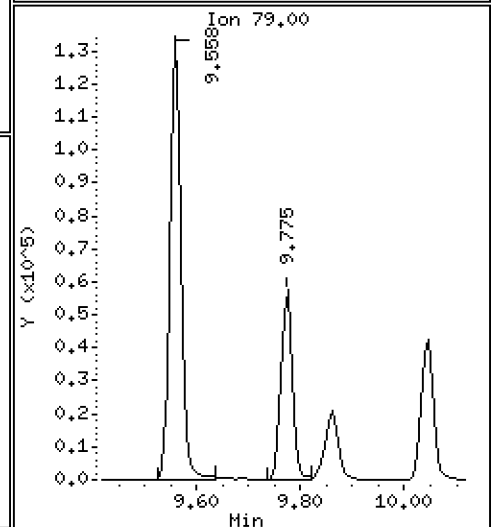
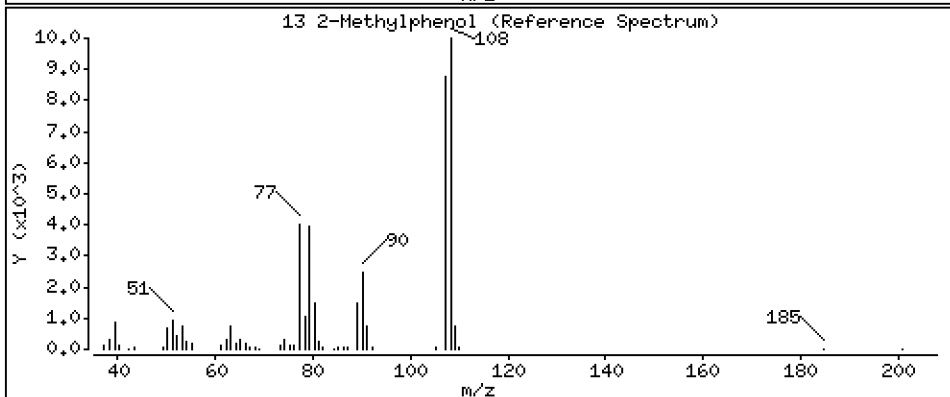
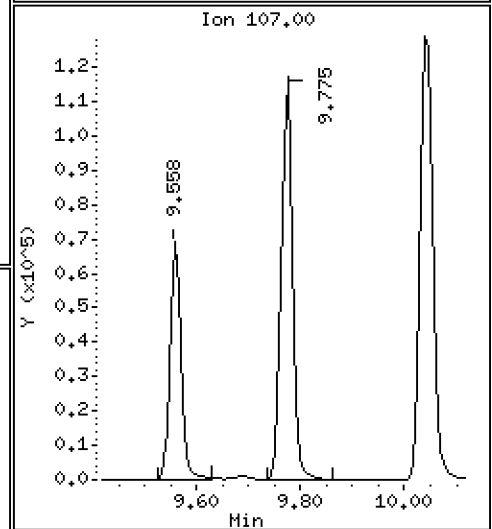
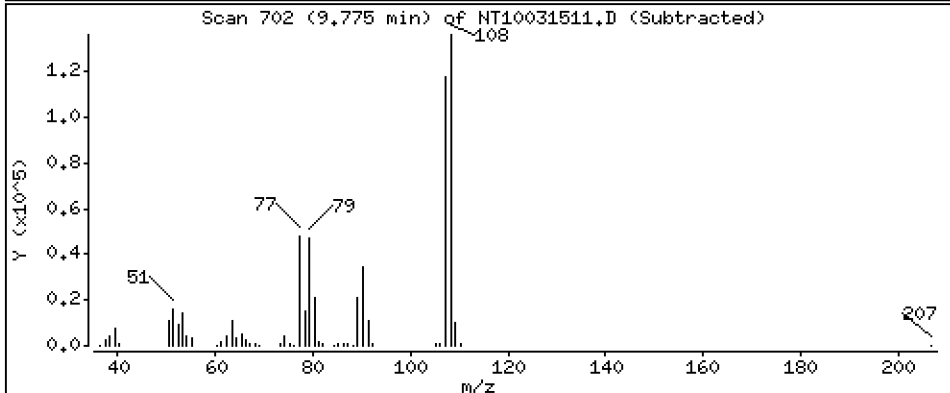
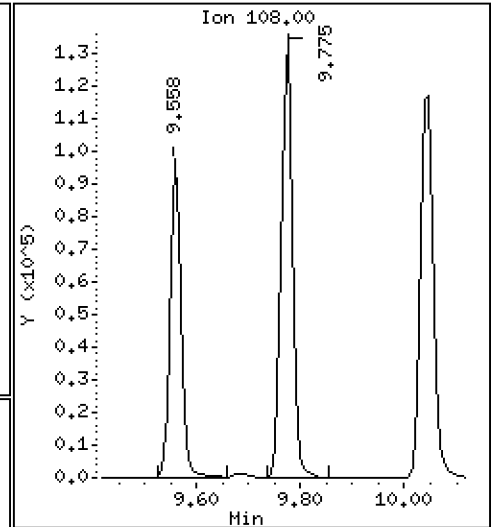
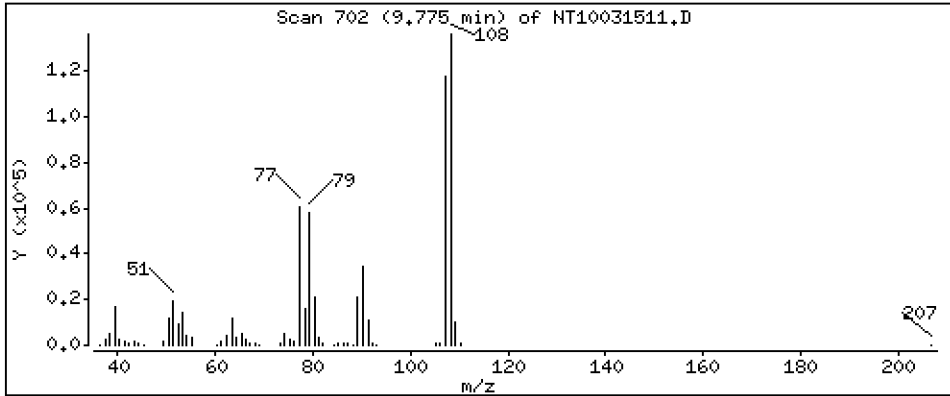
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.215 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

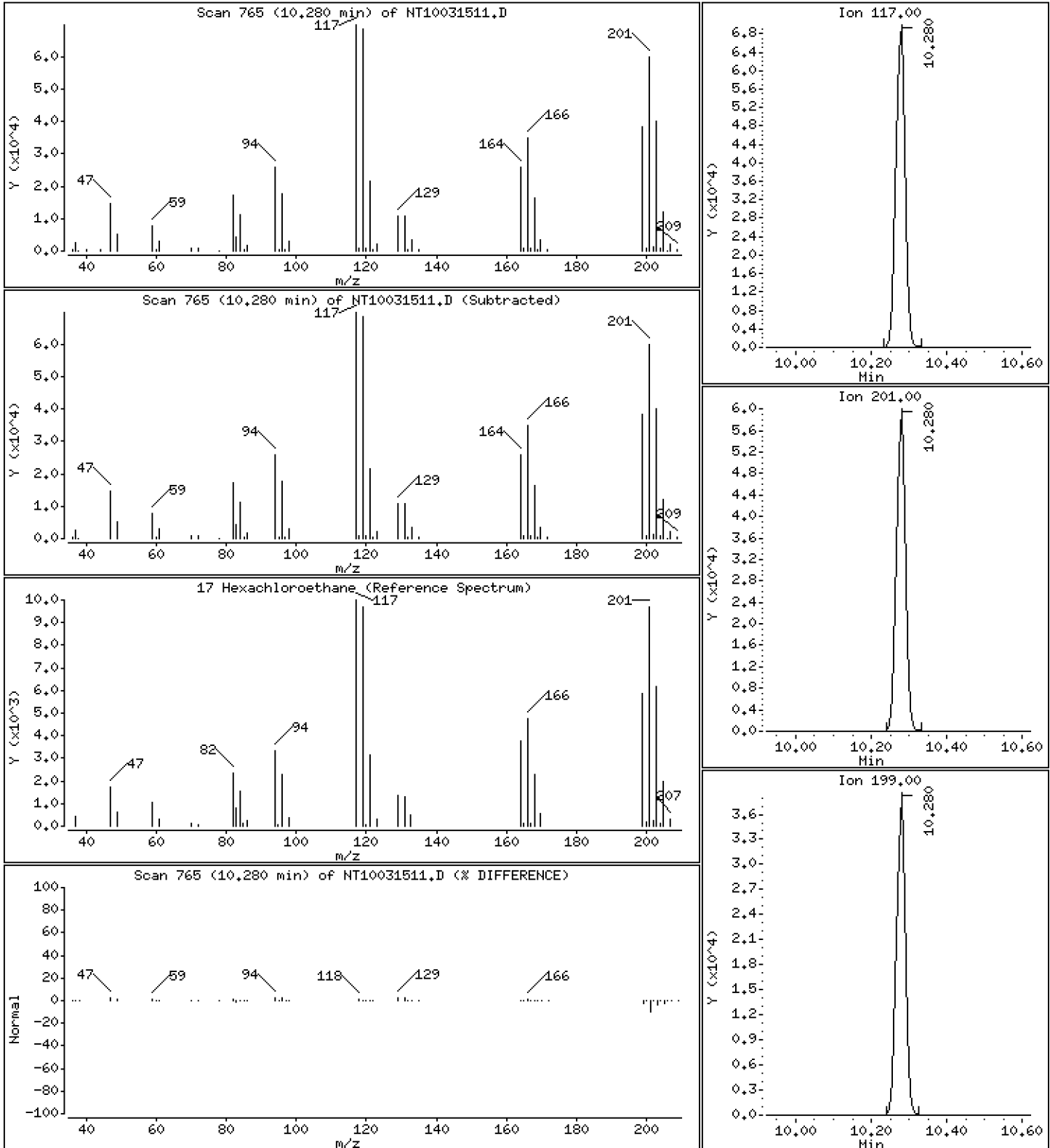
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 5,003 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

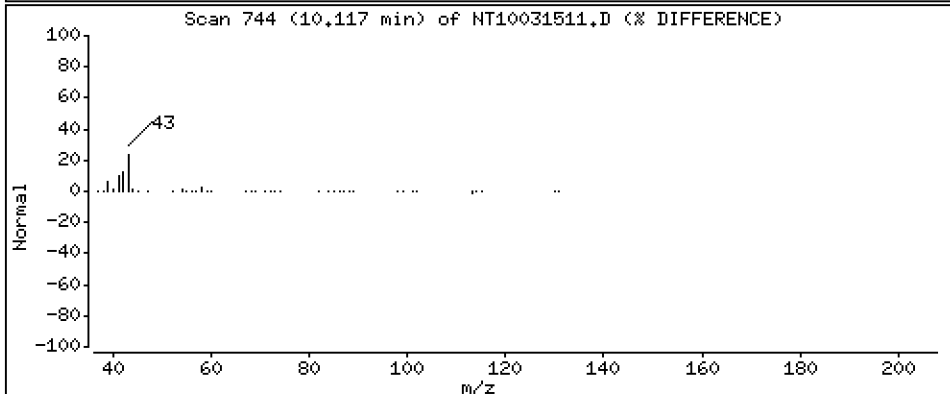
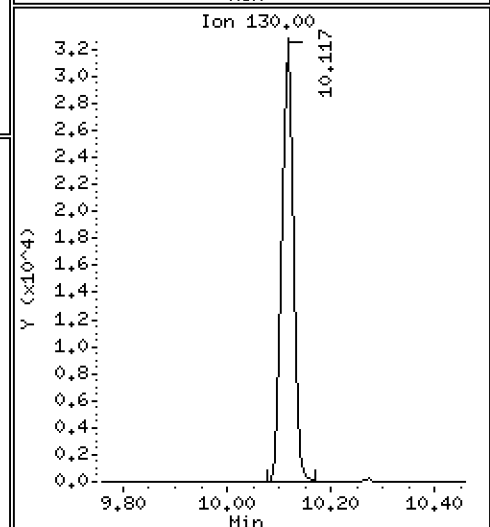
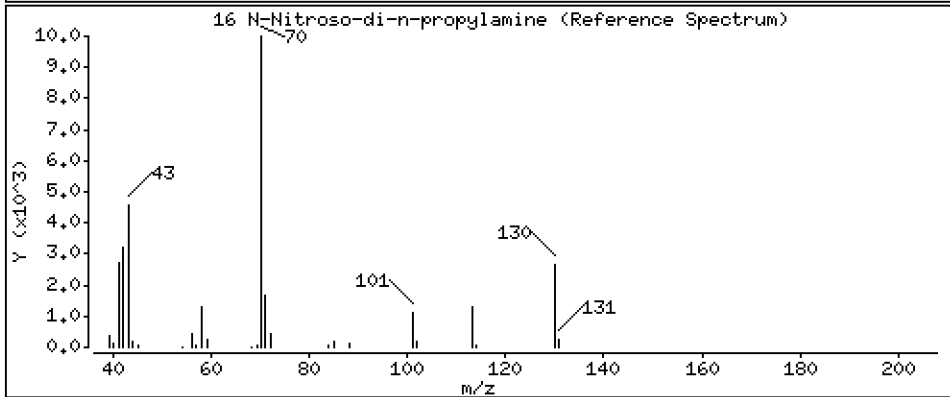
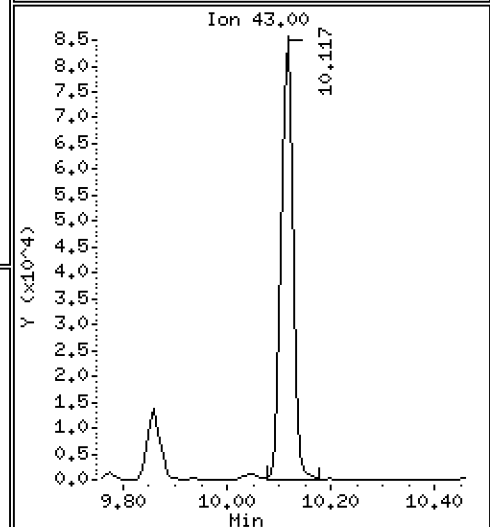
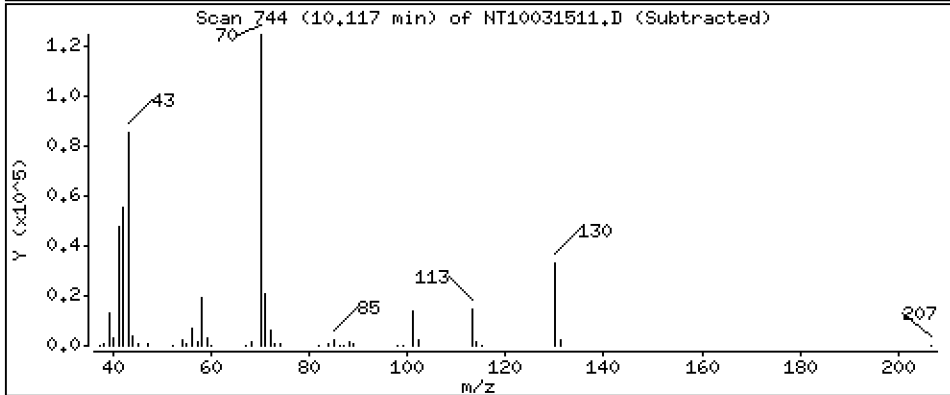
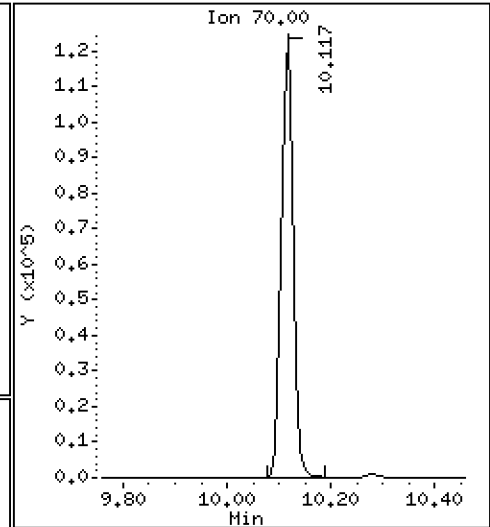
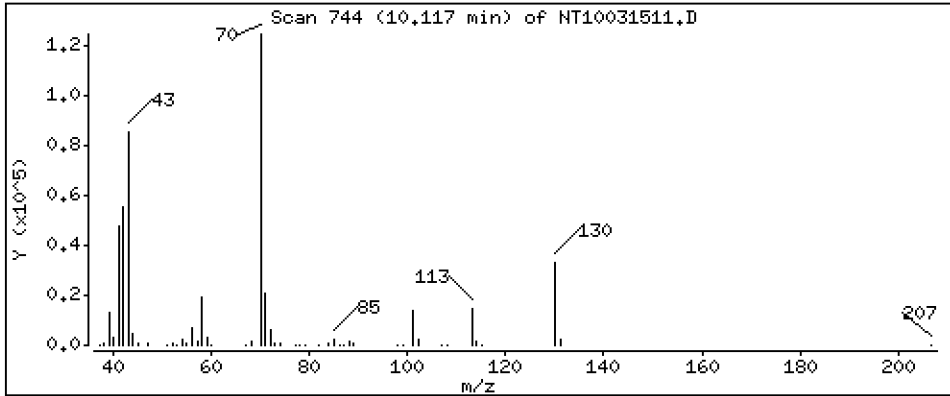
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,179 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

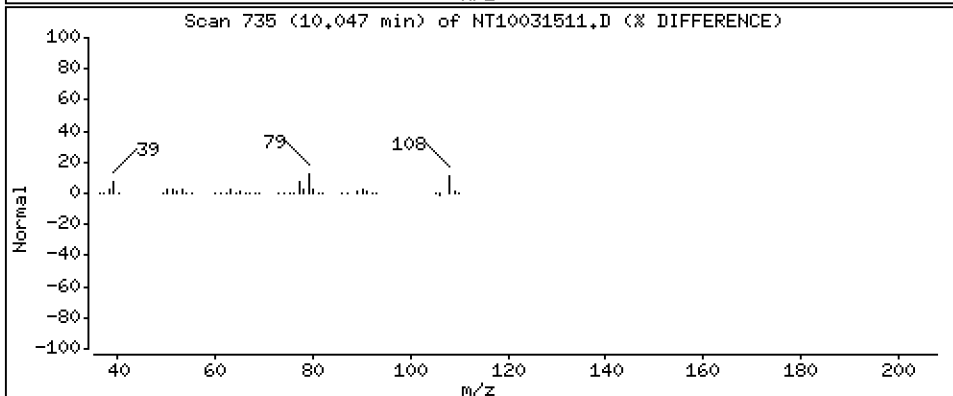
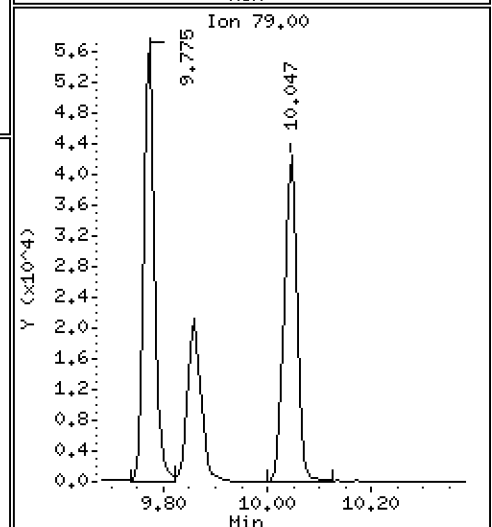
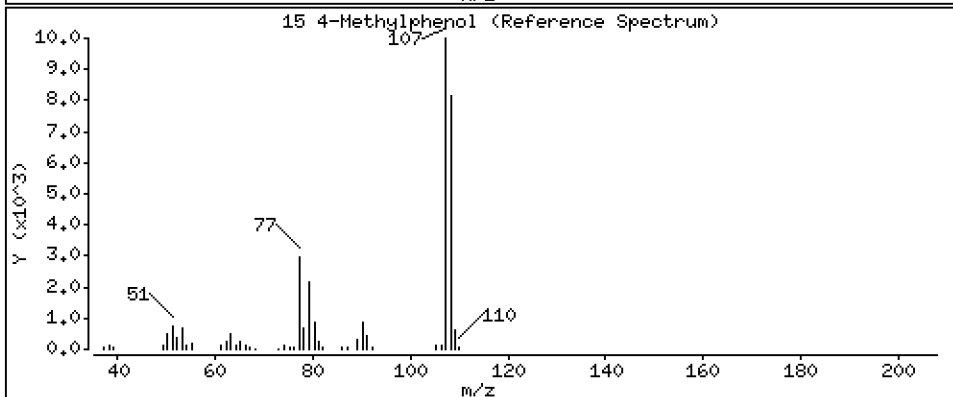
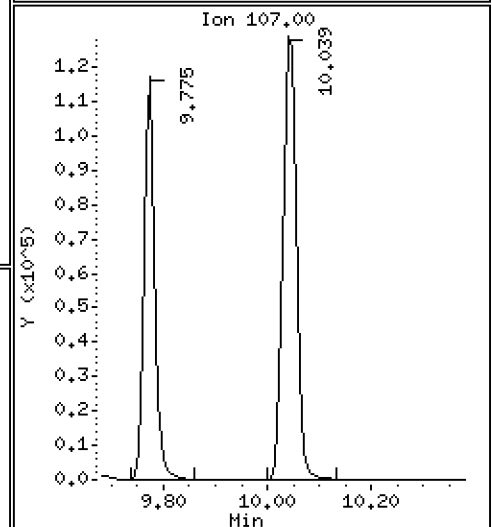
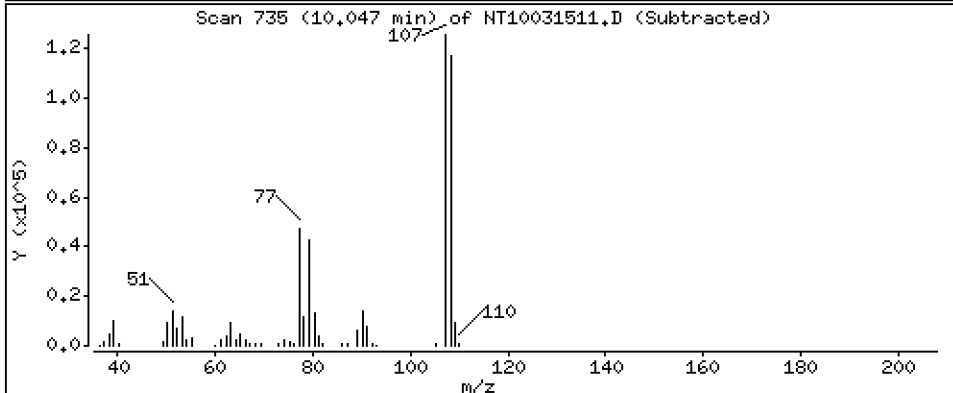
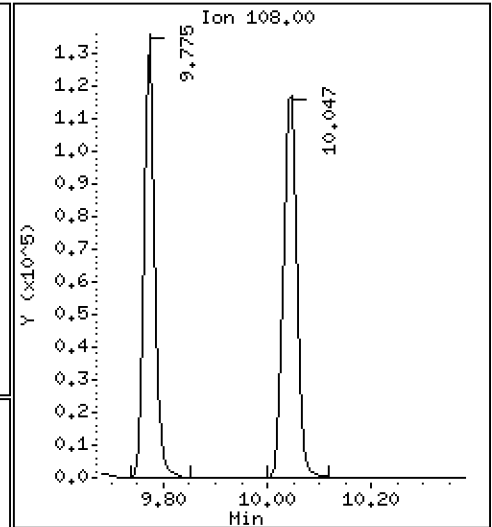
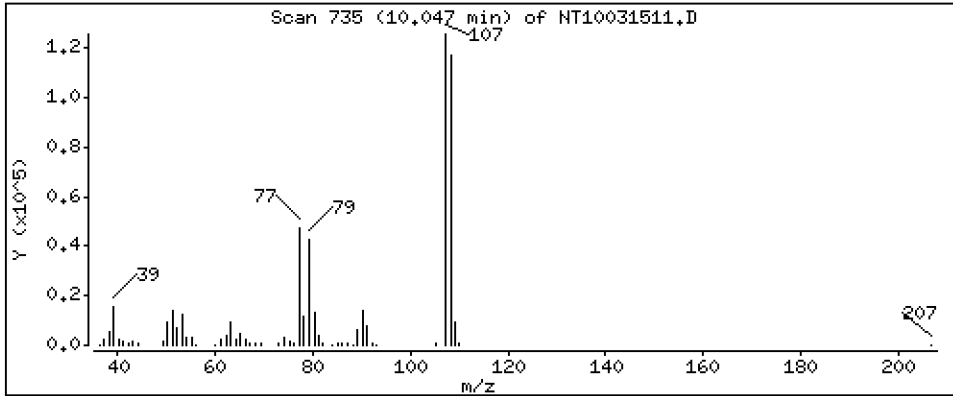
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,365 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

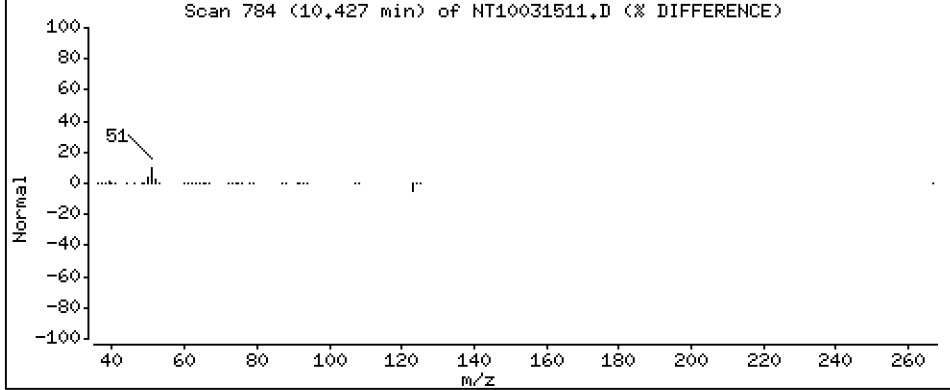
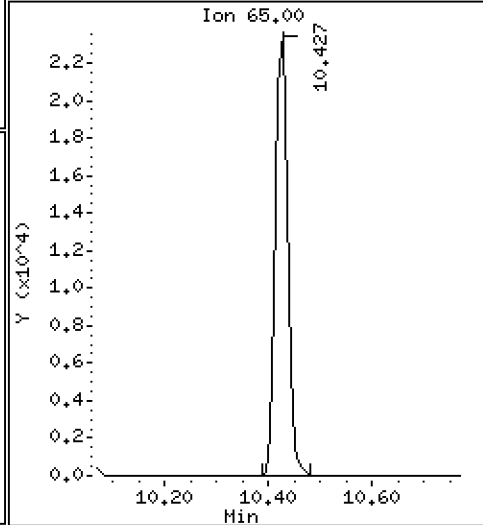
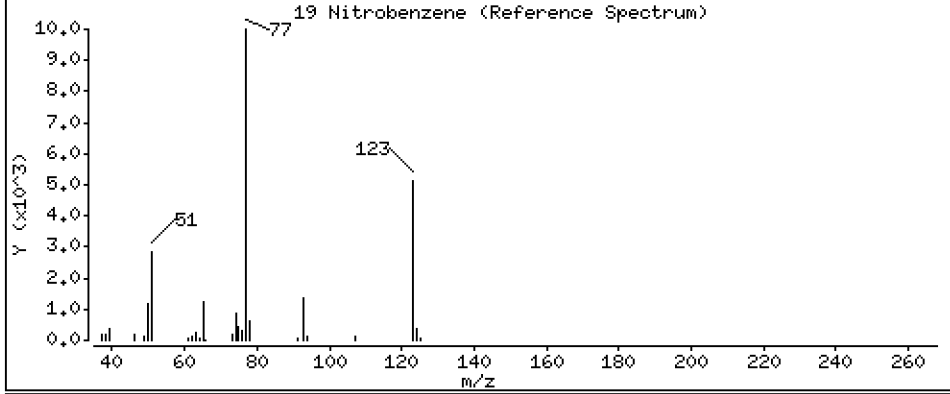
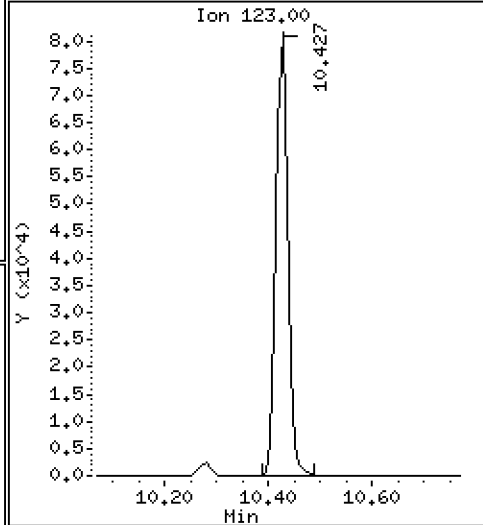
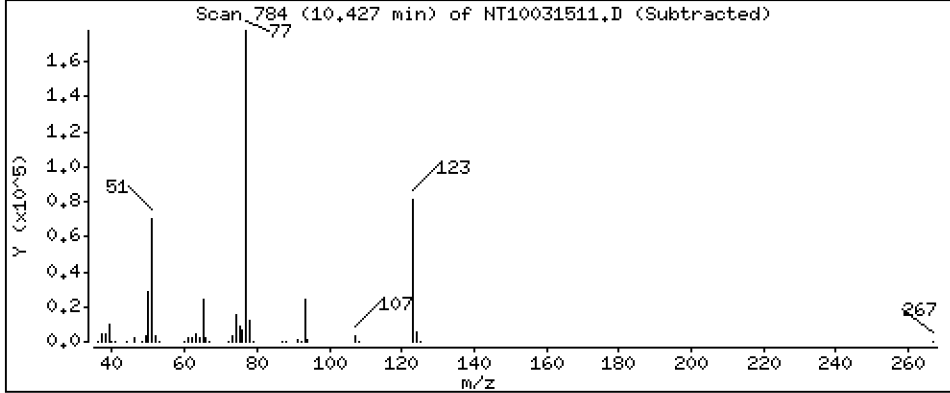
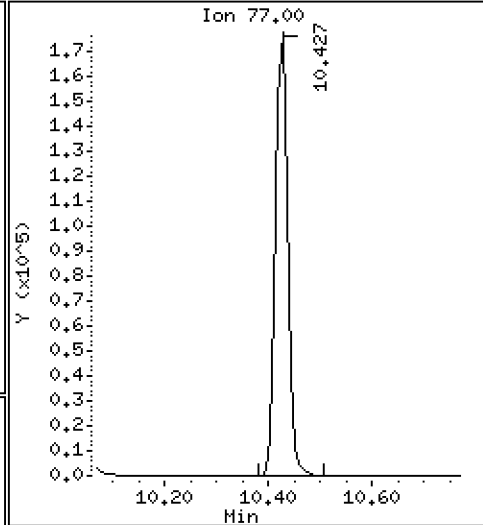
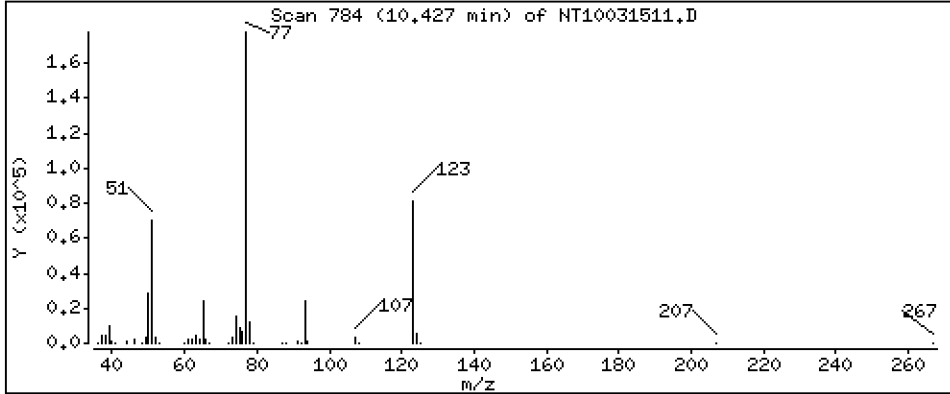
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,858 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

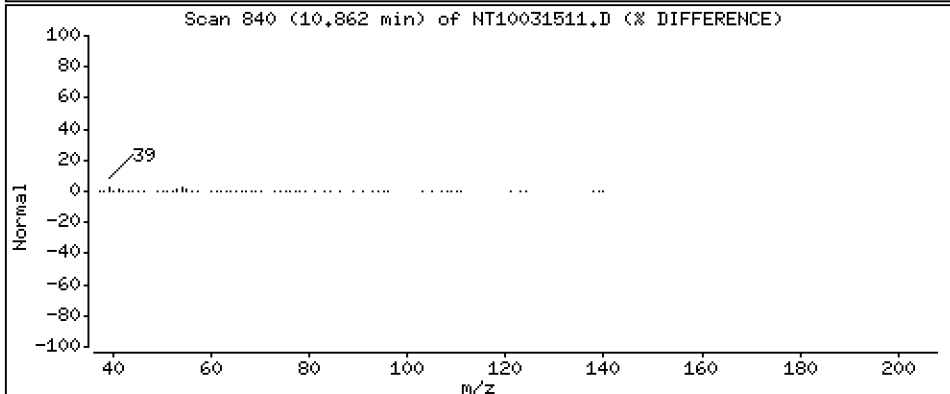
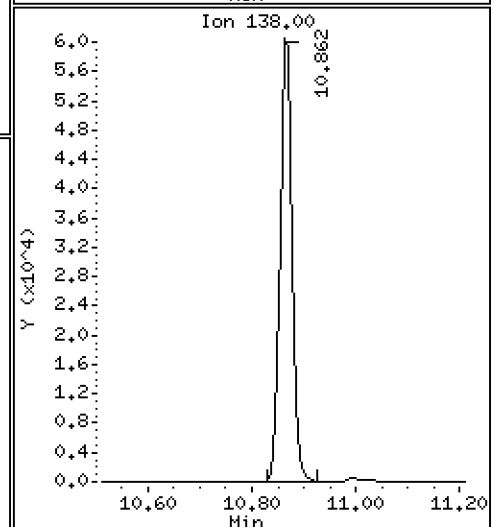
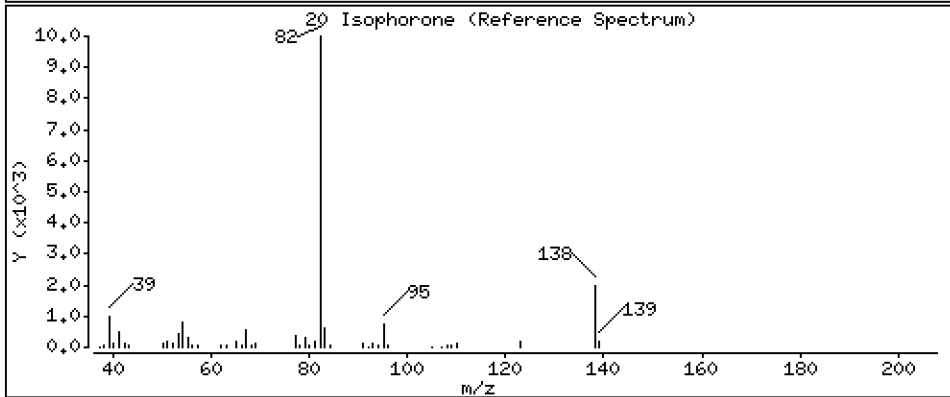
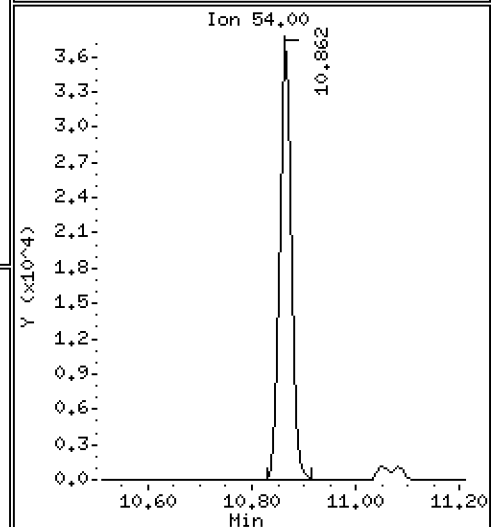
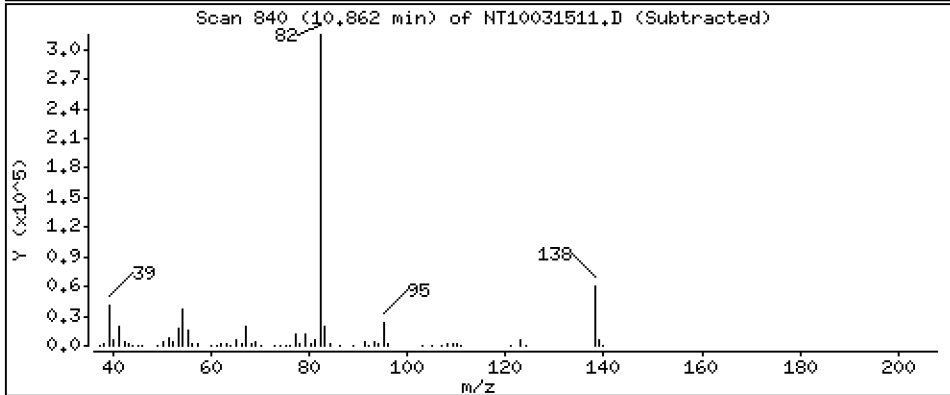
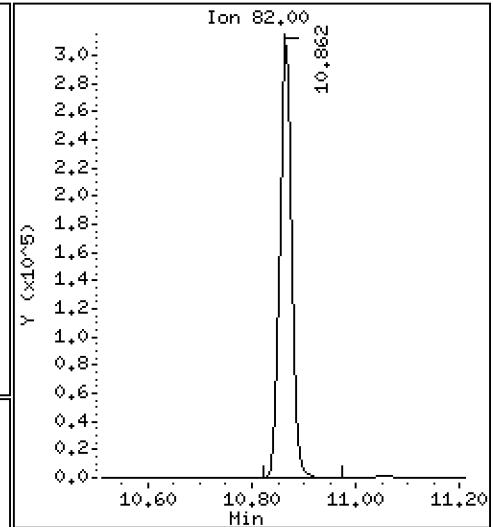
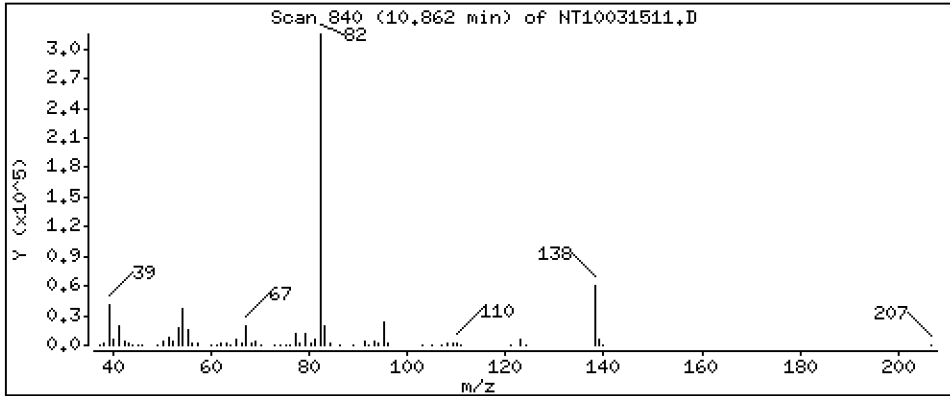
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 7,696 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

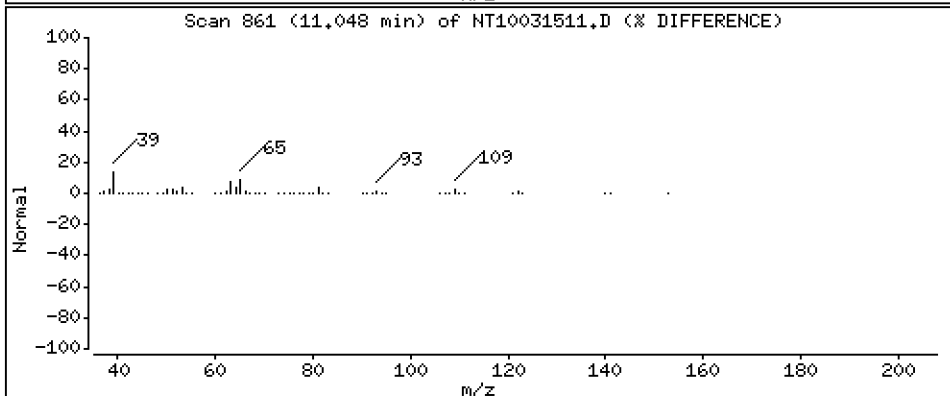
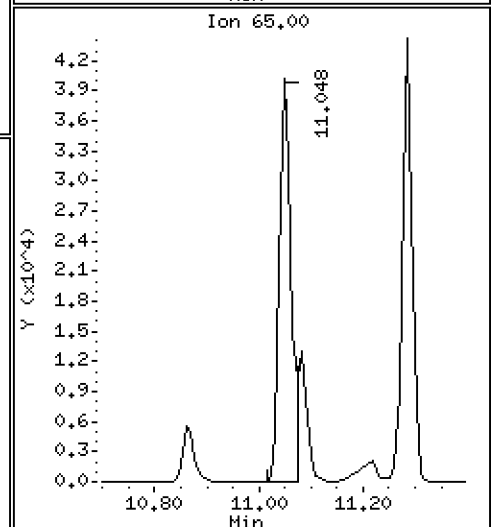
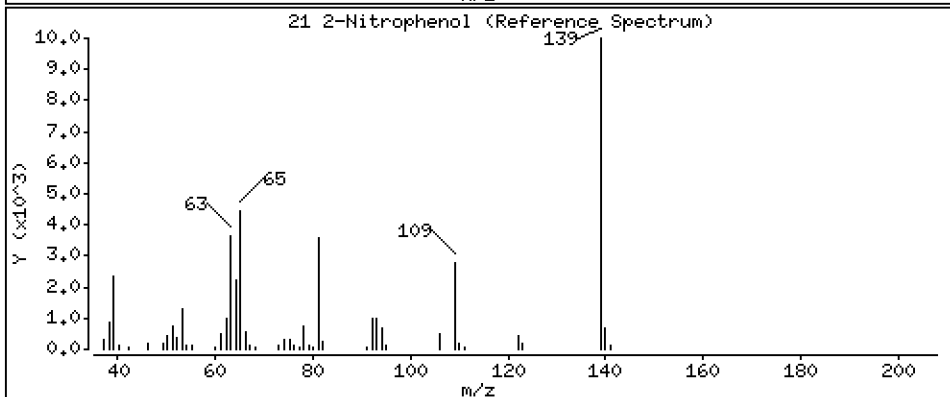
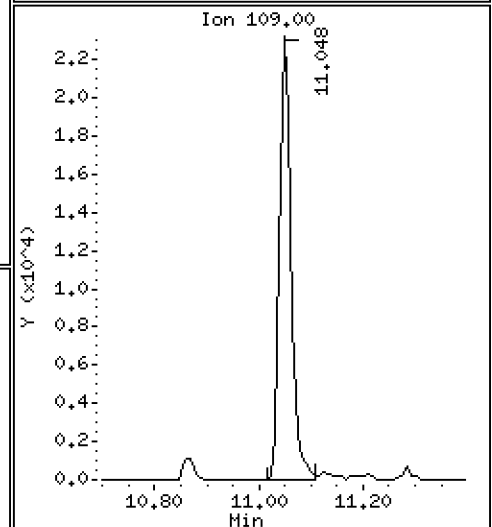
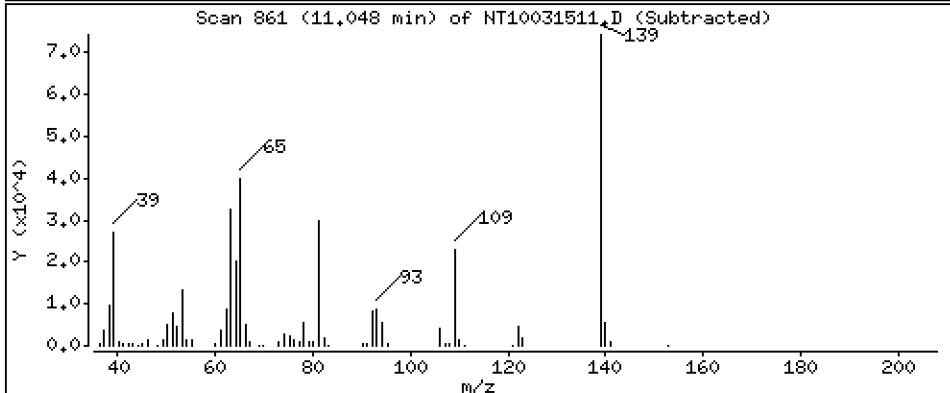
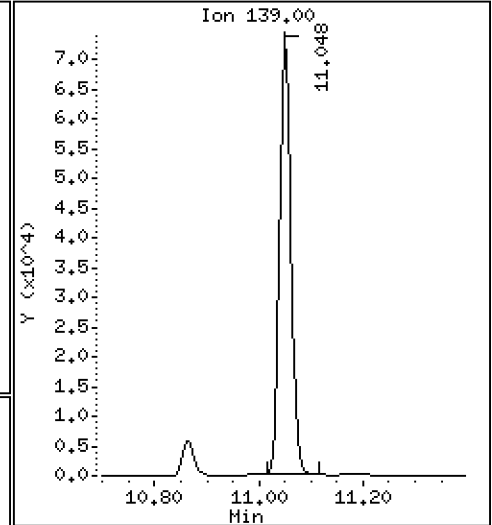
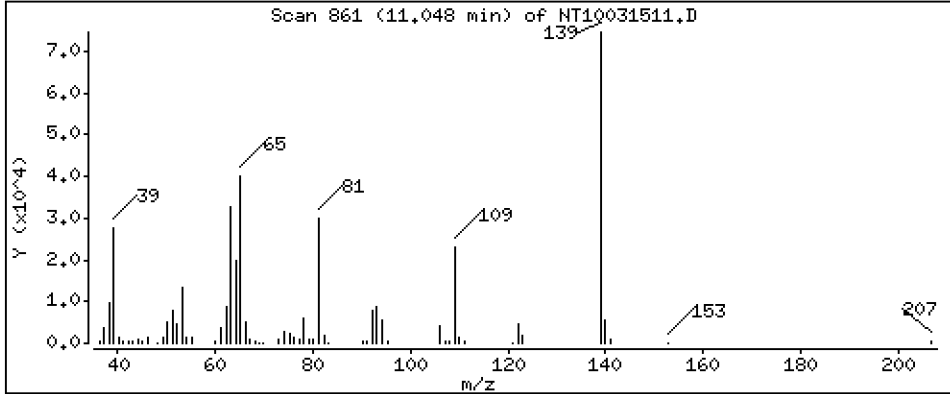
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 3,995 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

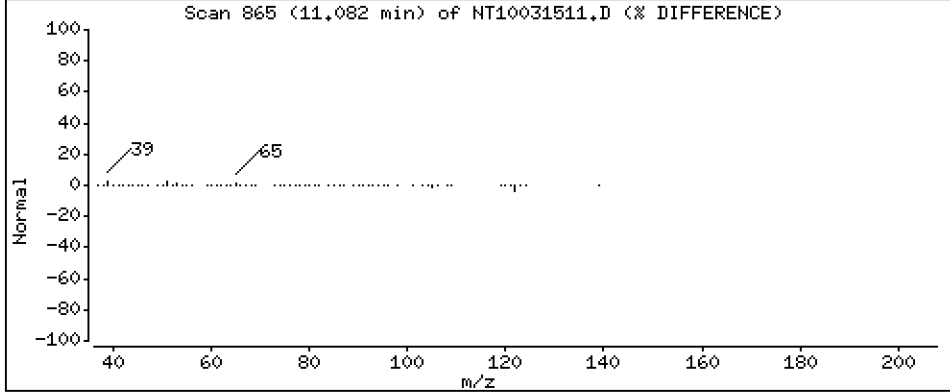
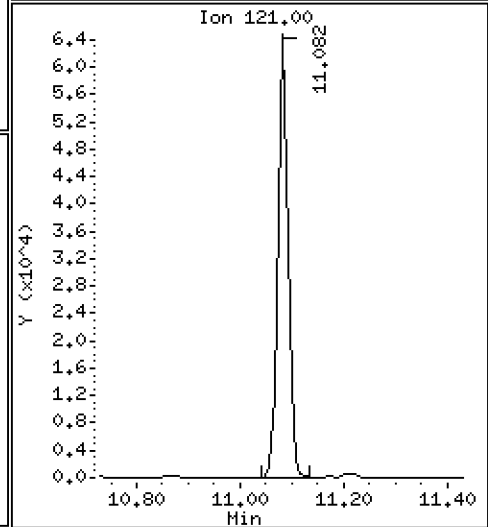
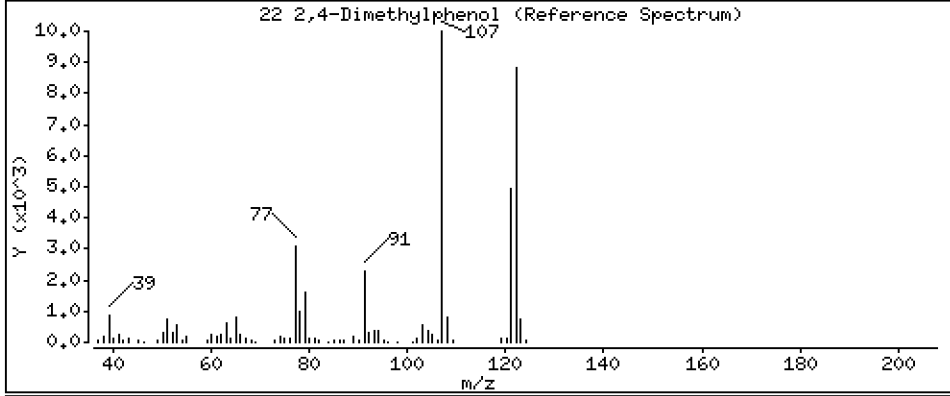
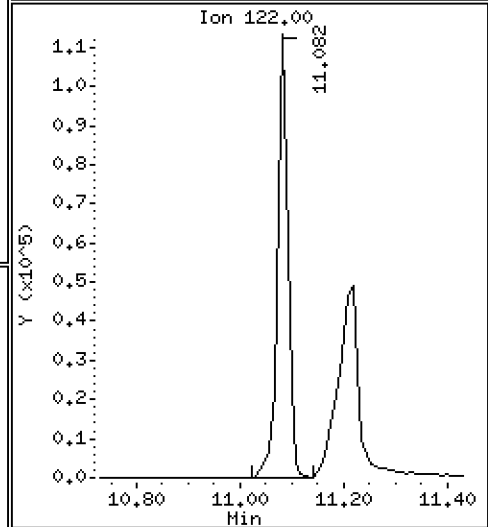
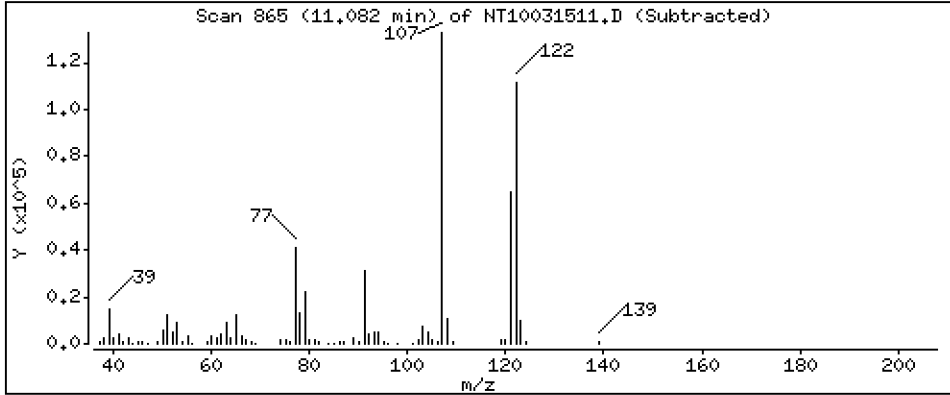
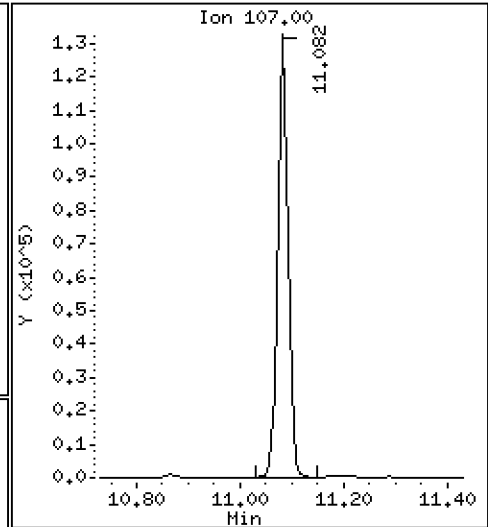
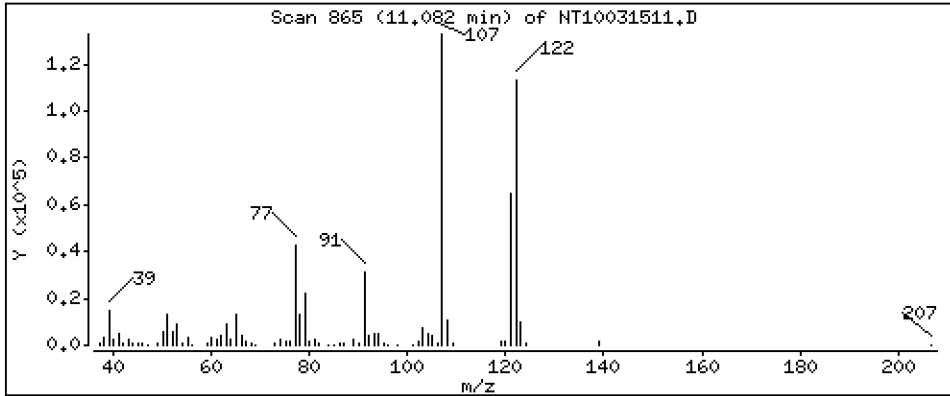
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 3,632 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

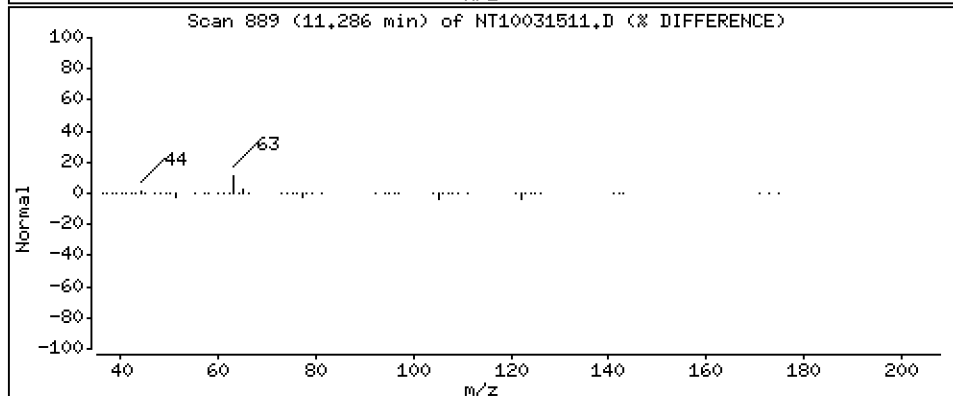
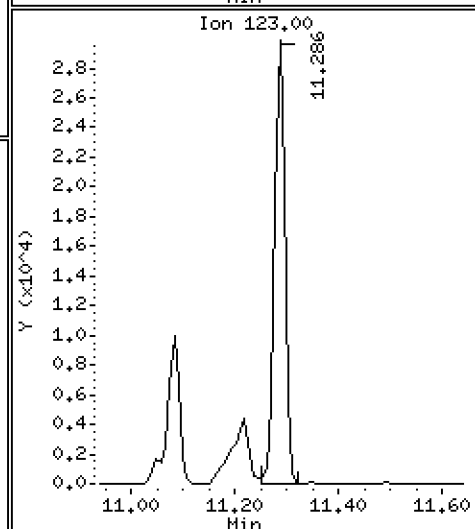
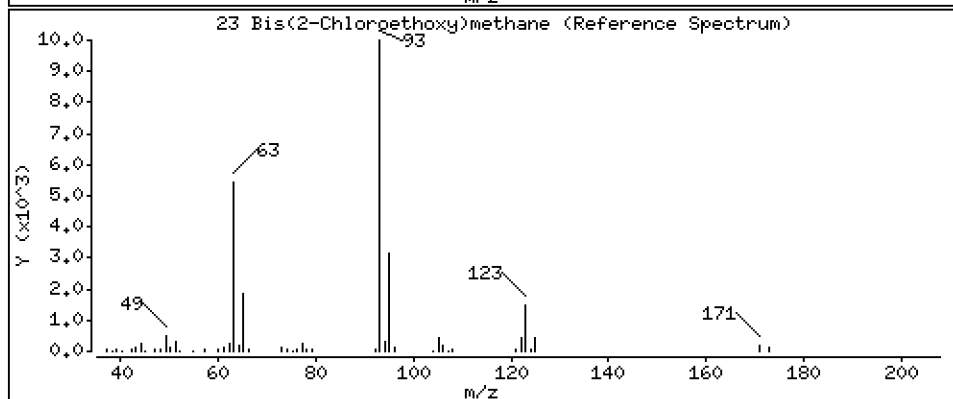
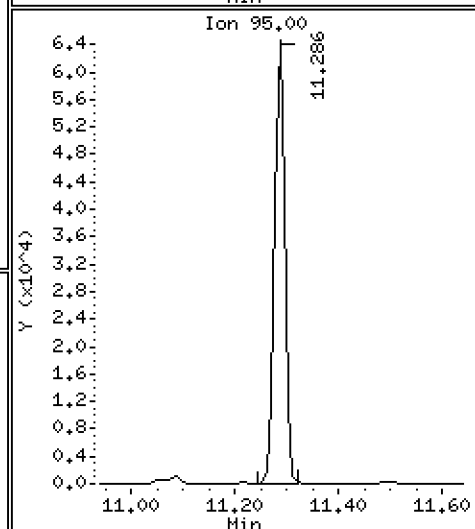
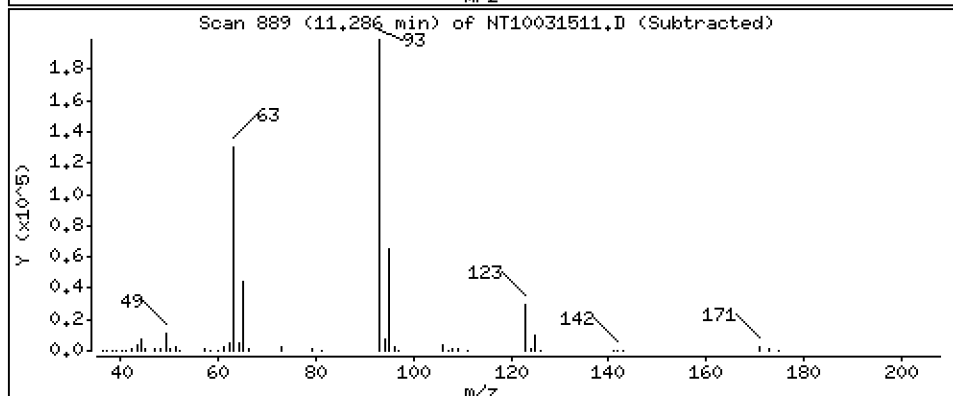
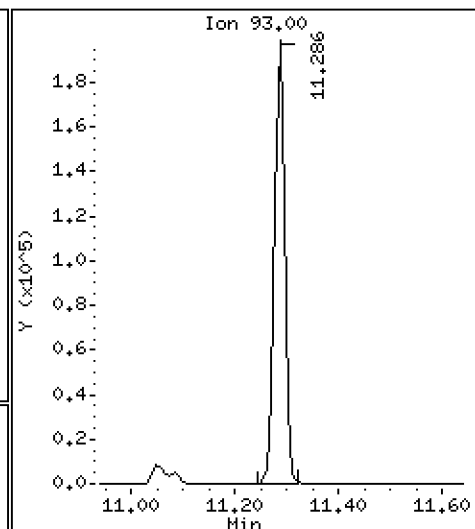
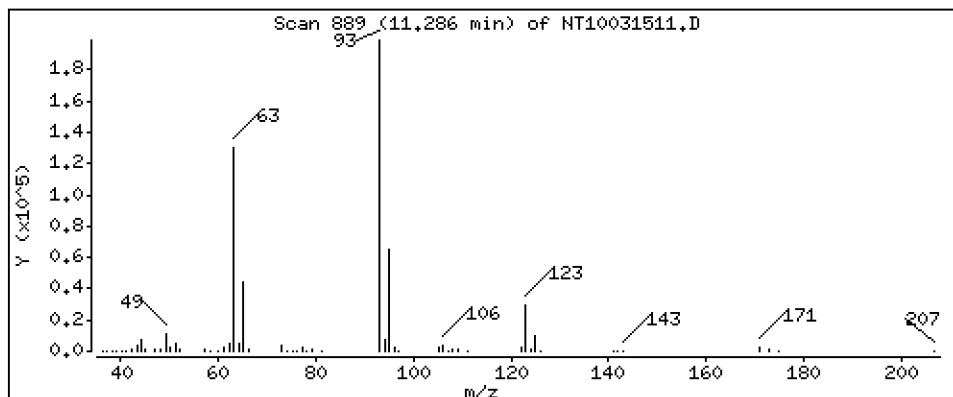
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,654 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

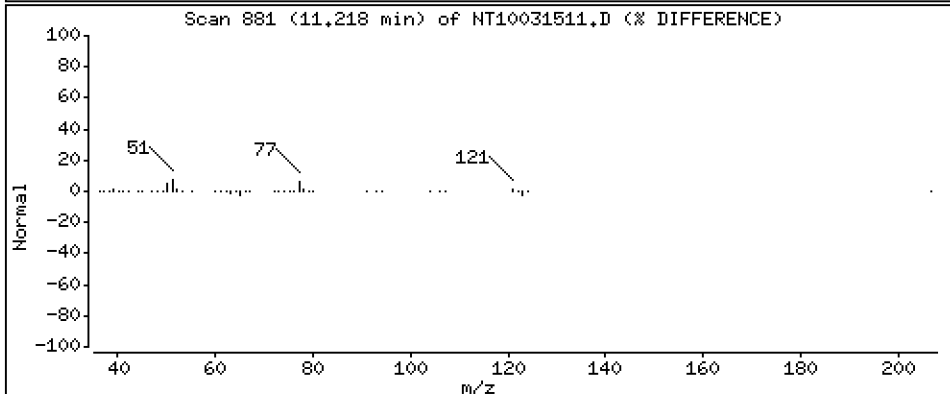
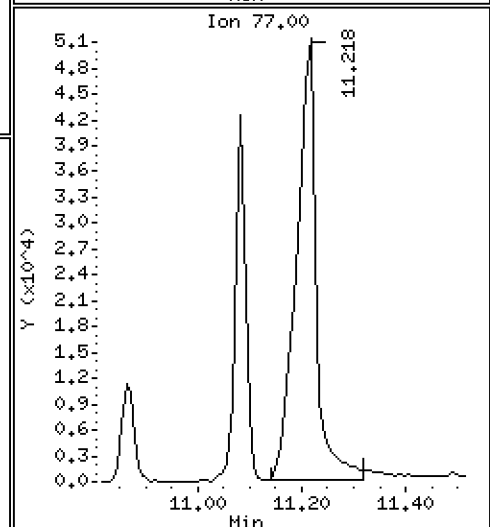
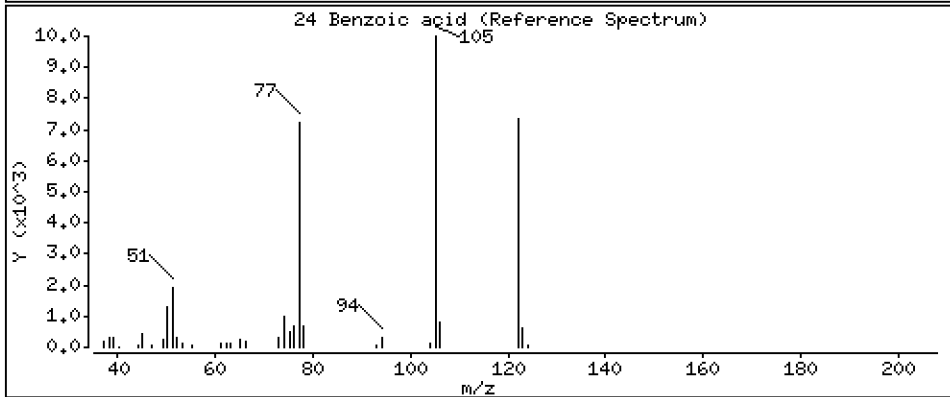
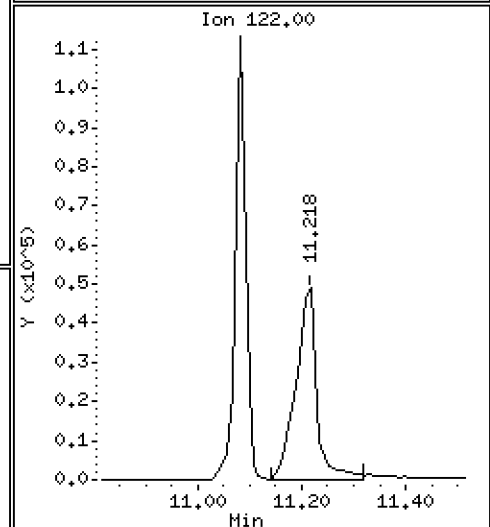
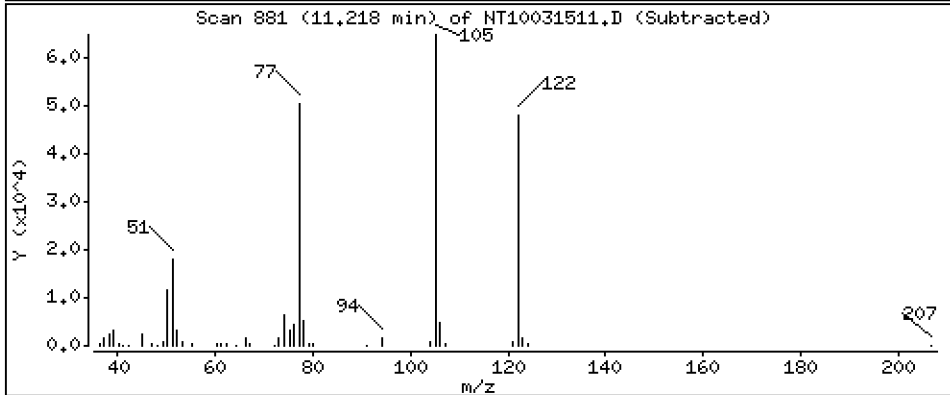
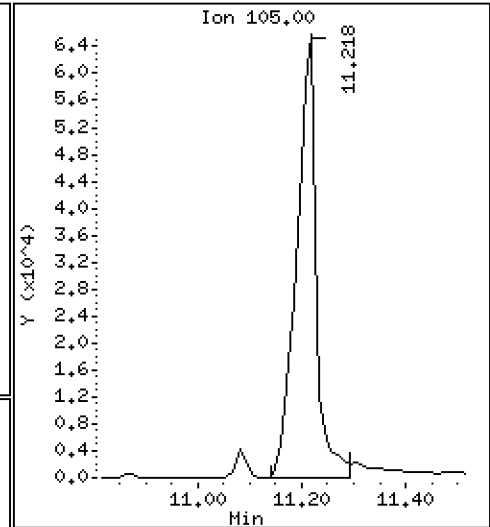
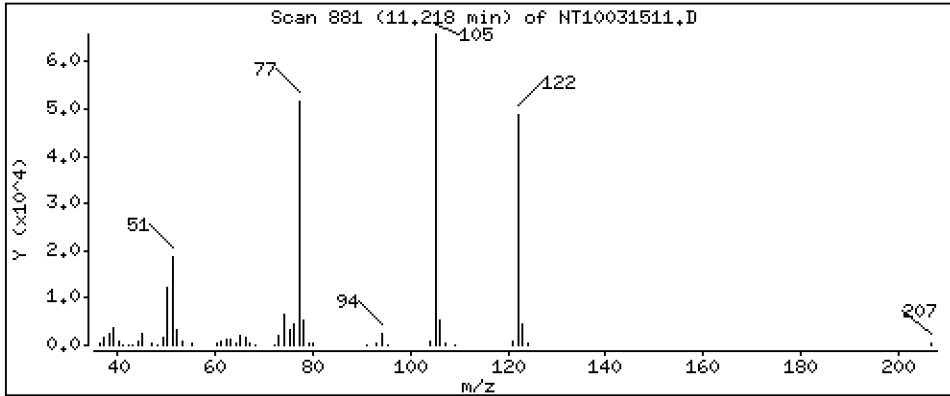
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 5,952 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

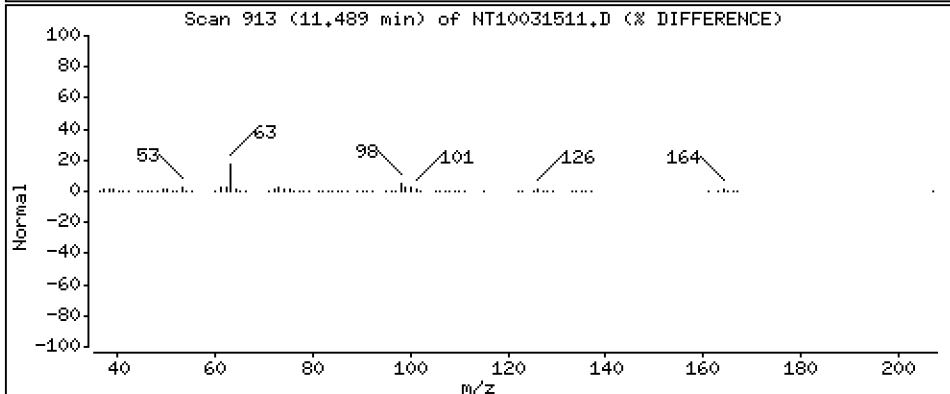
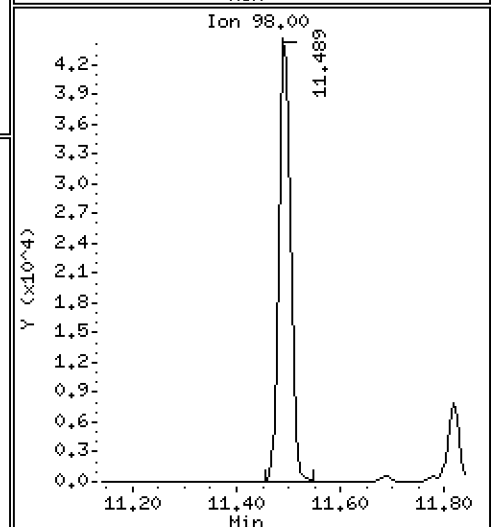
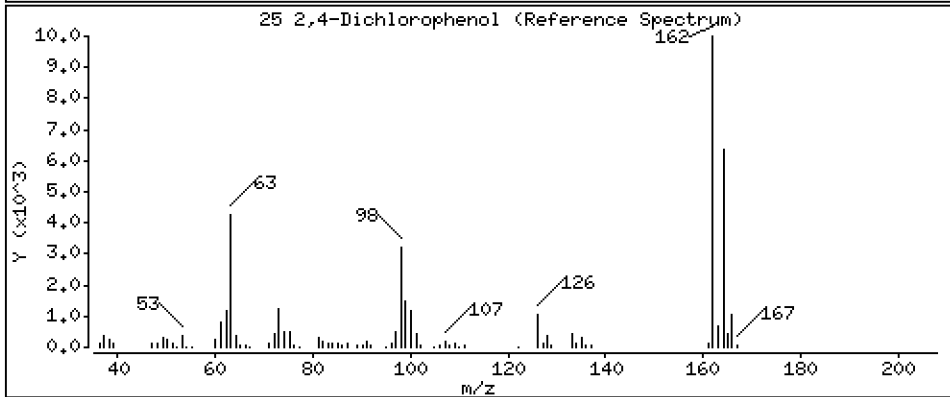
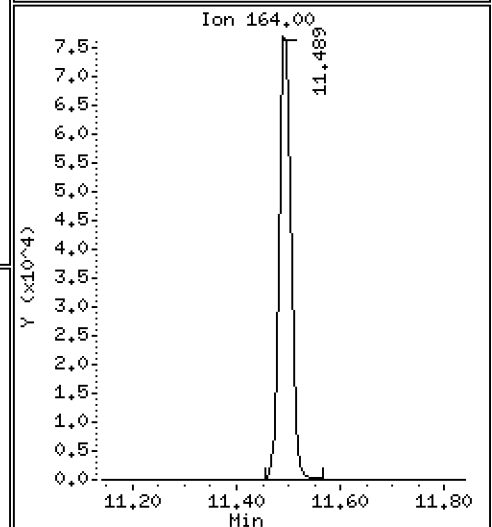
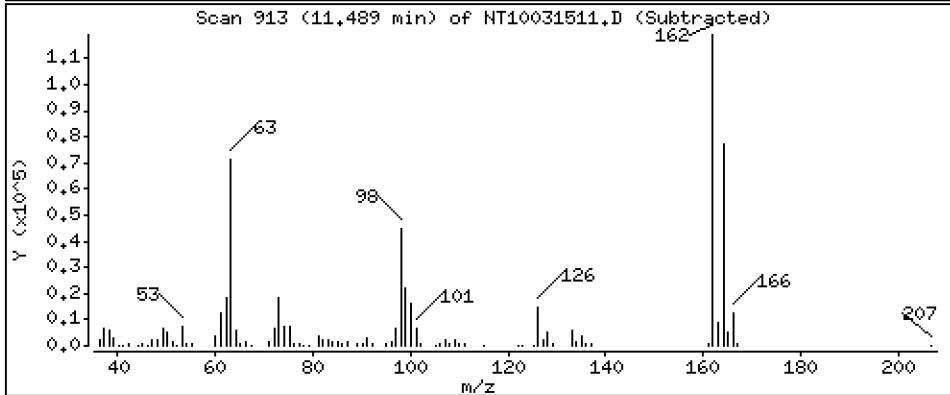
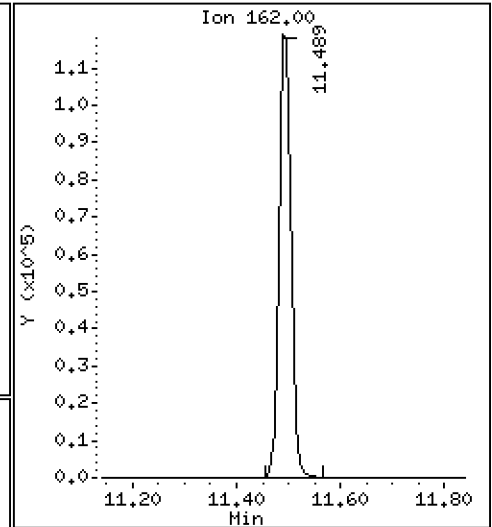
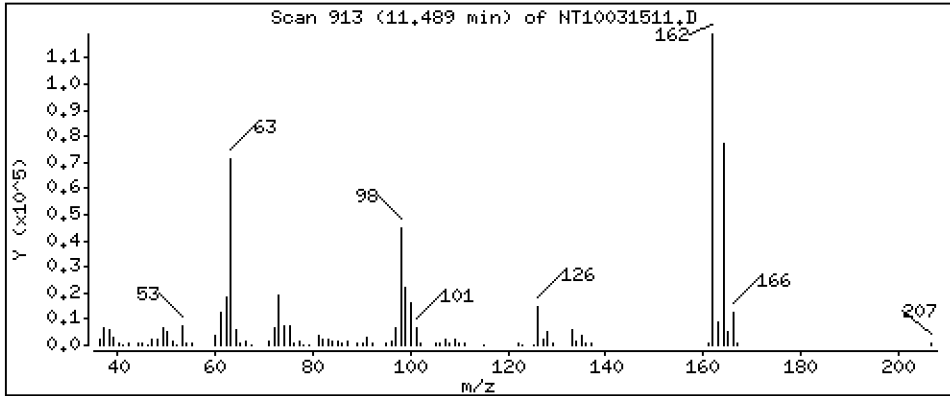
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 4,703 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

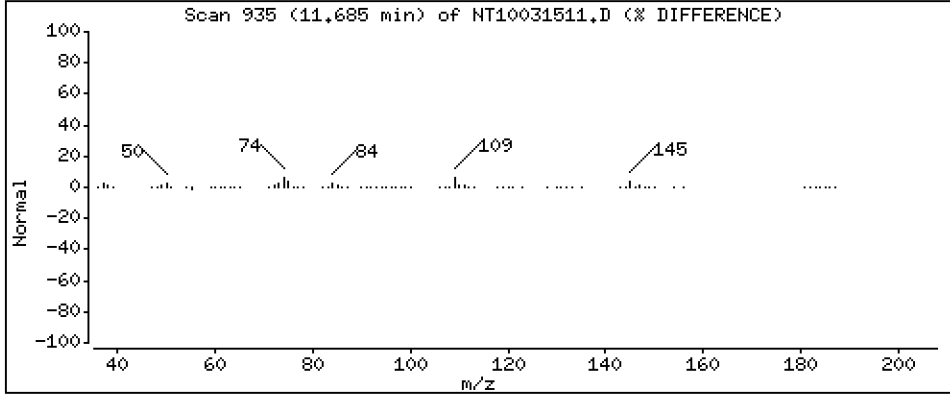
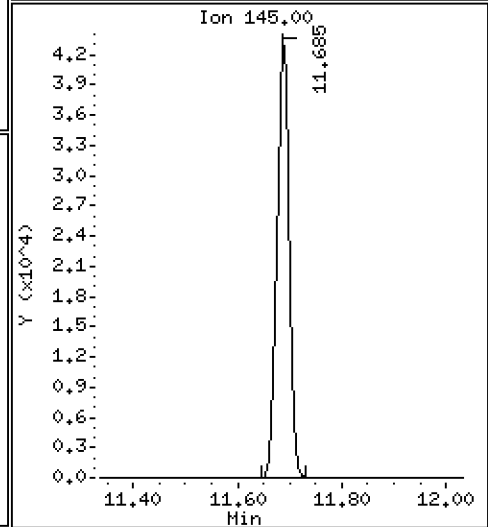
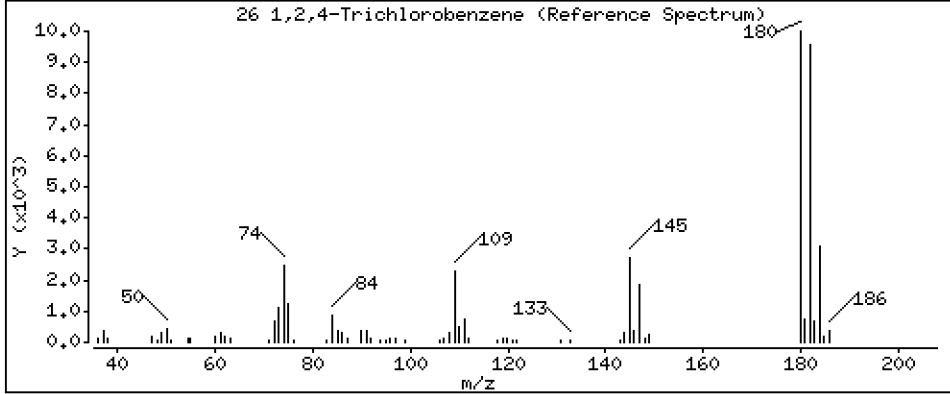
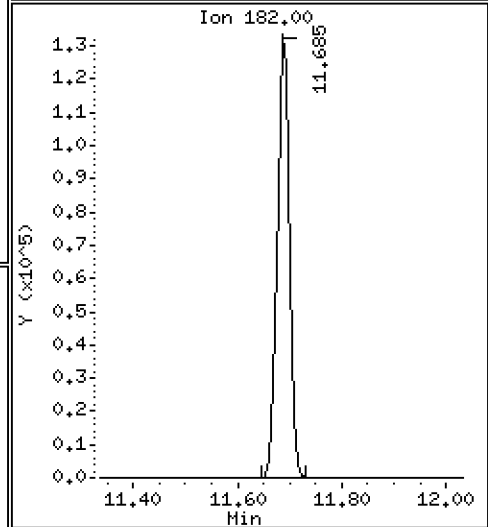
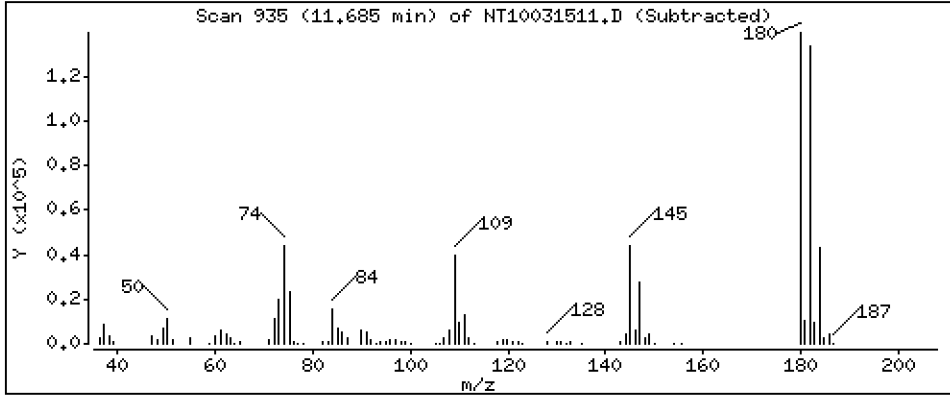
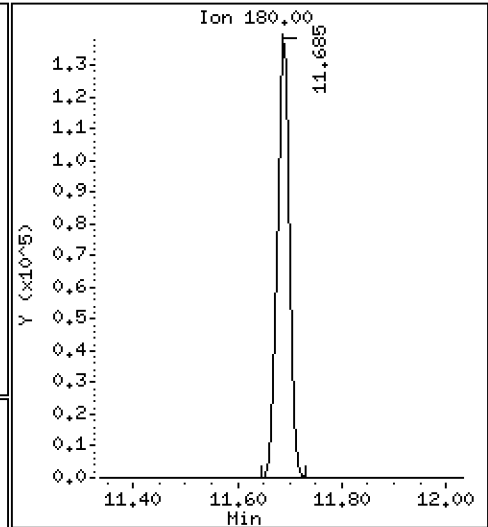
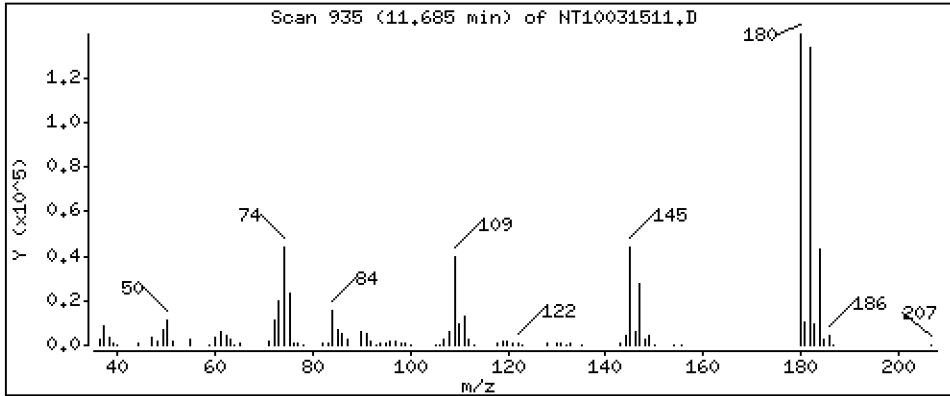
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,554 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

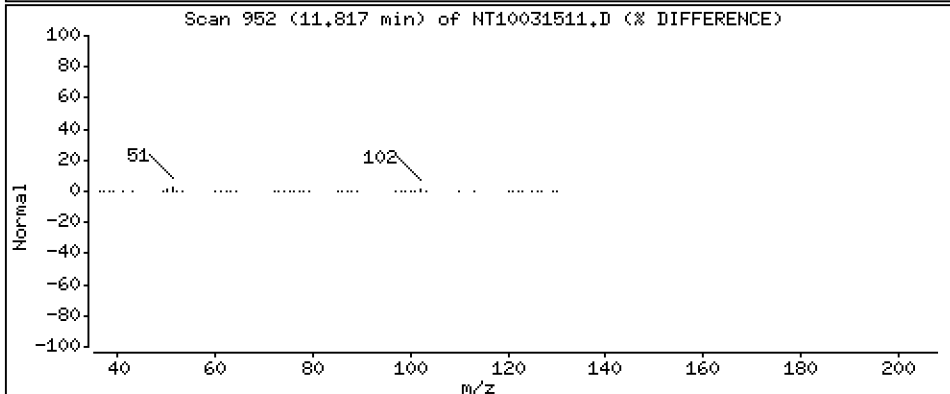
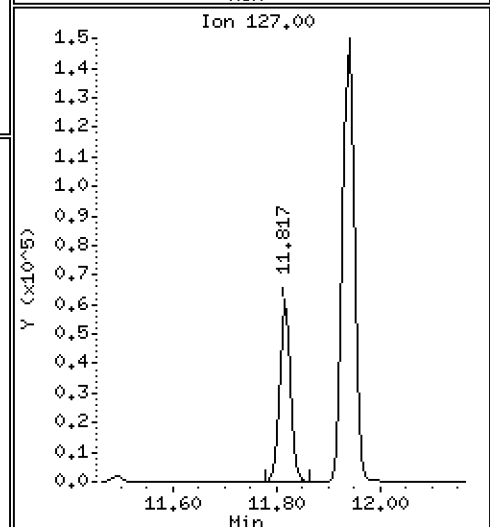
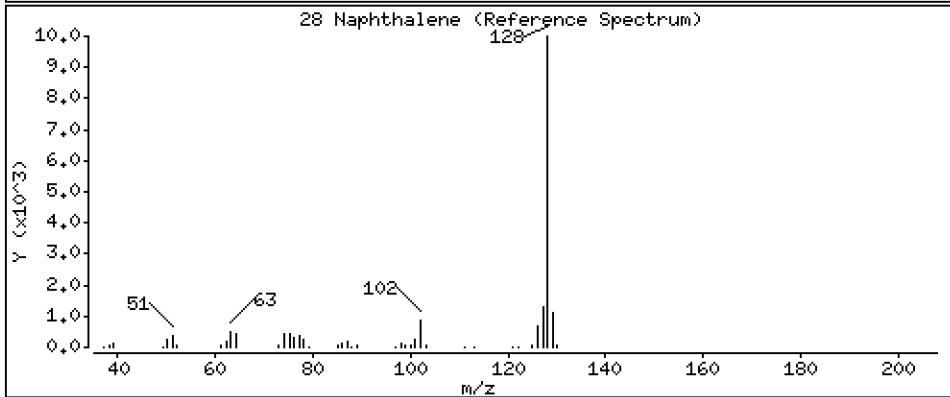
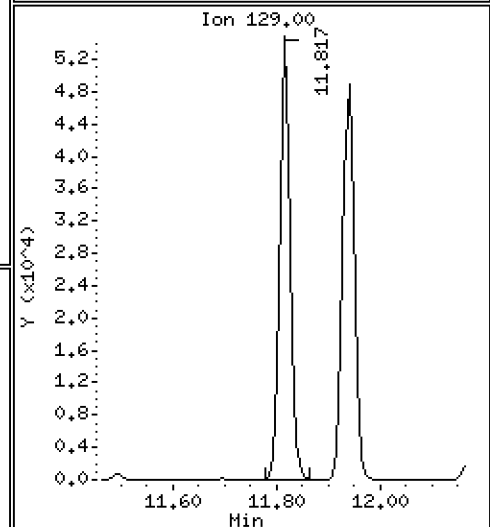
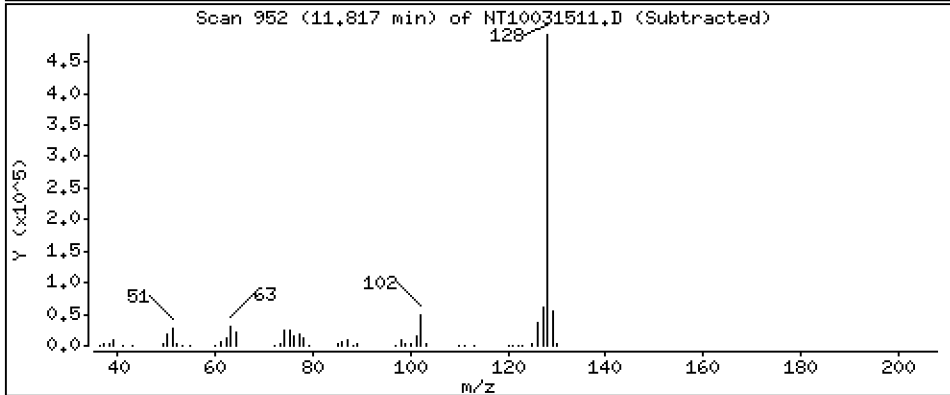
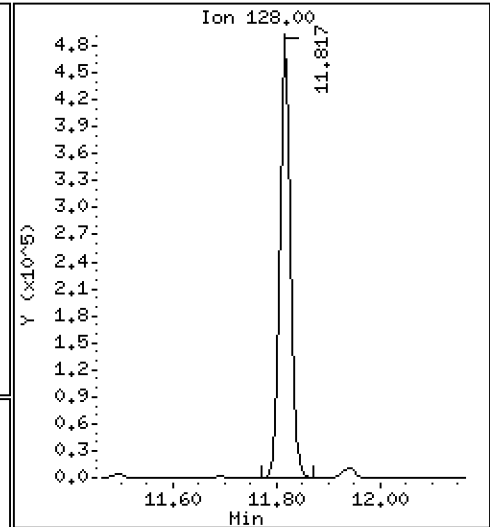
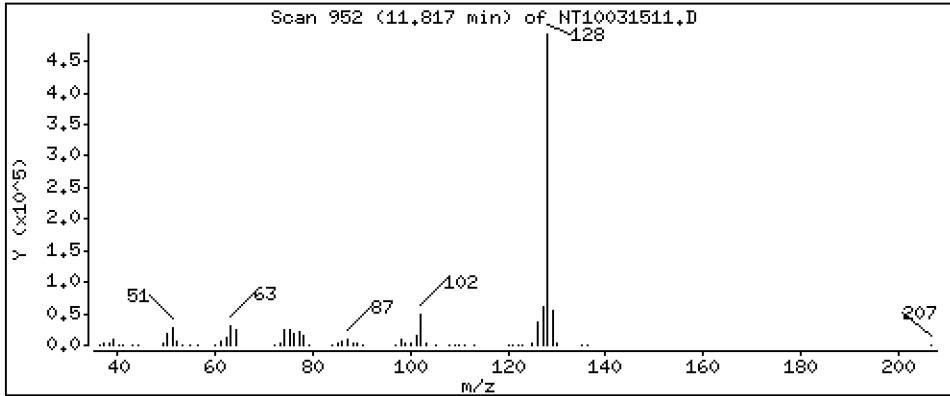
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,717 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

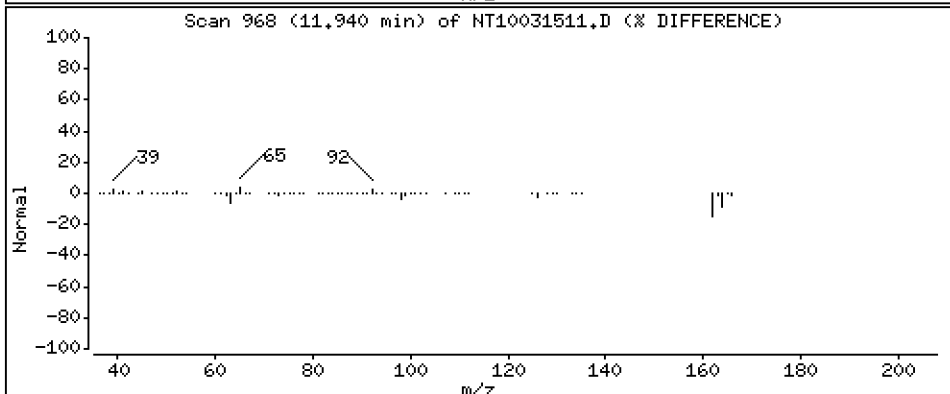
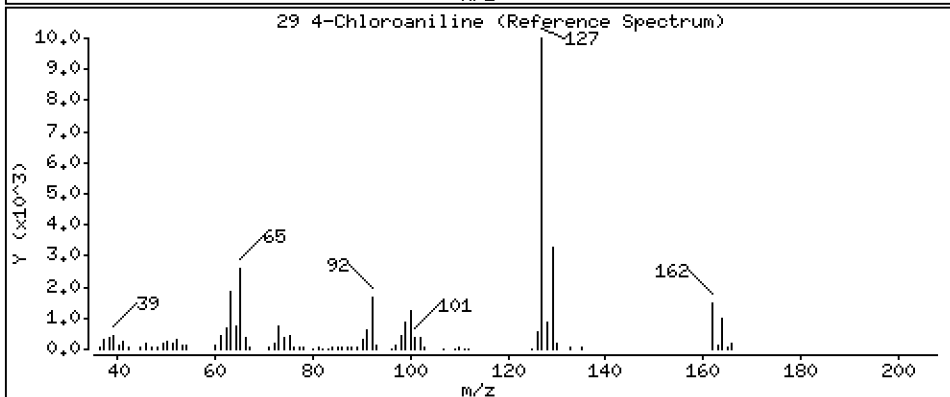
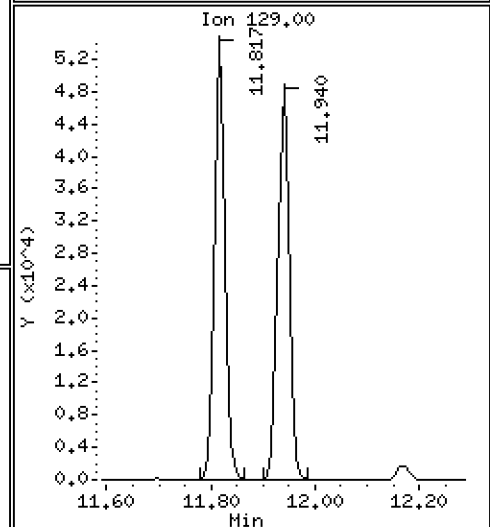
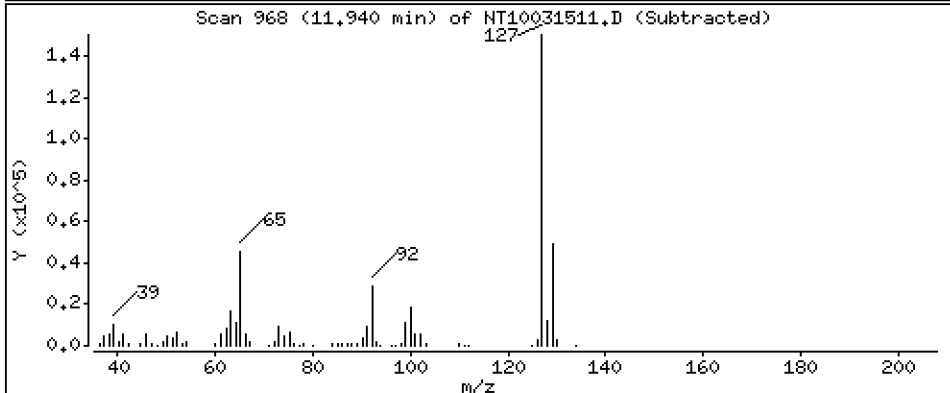
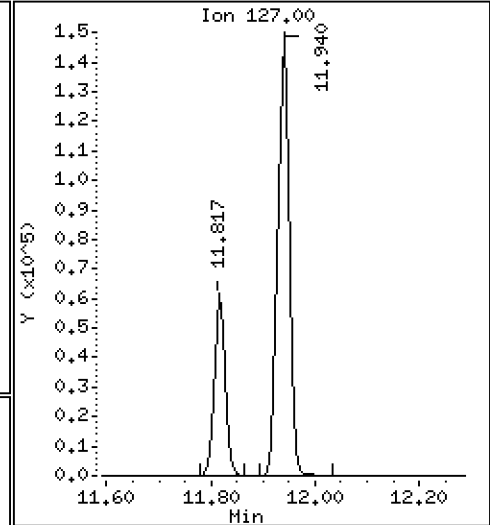
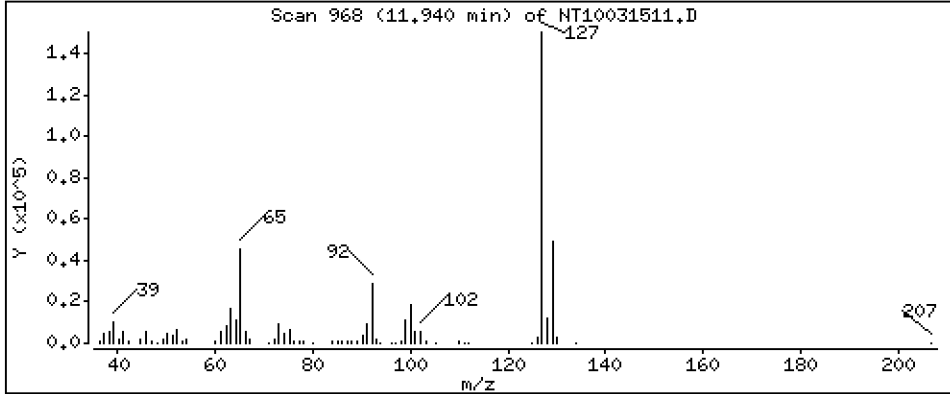
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 3,787 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

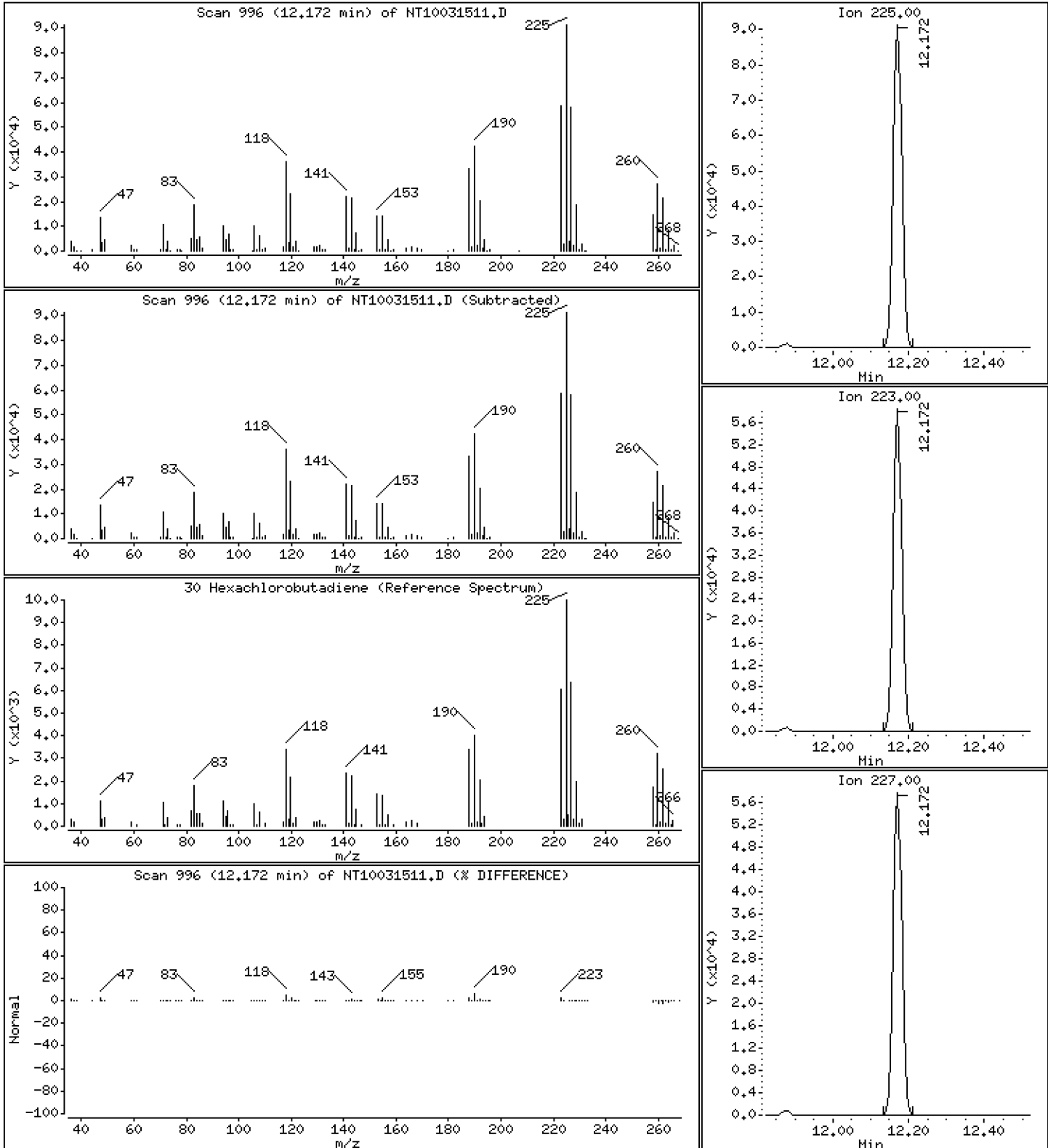
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,834 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

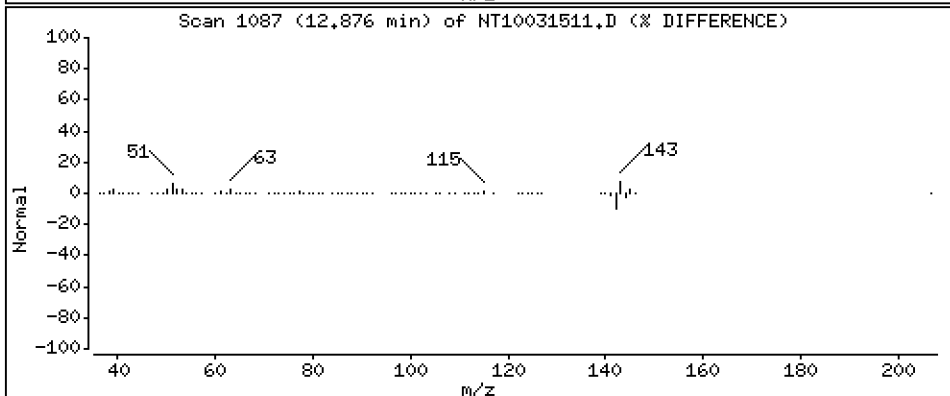
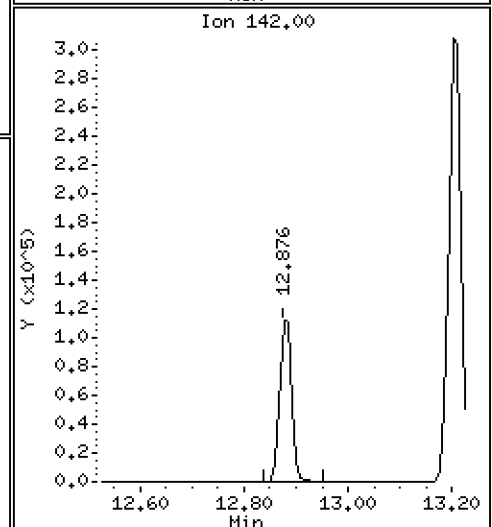
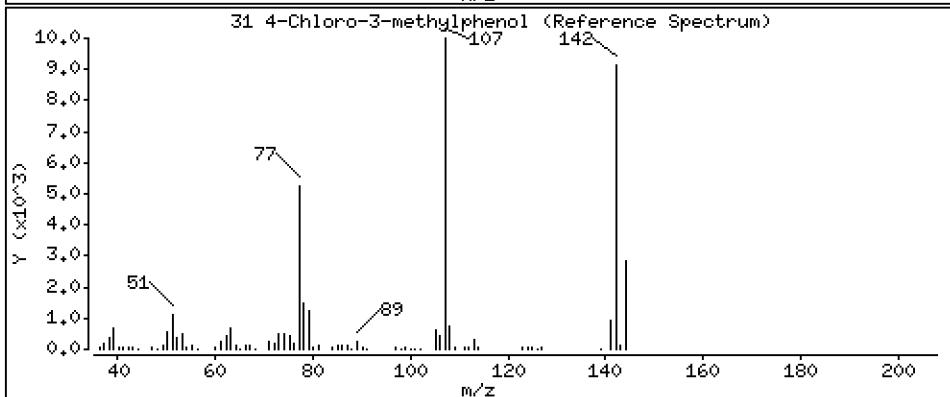
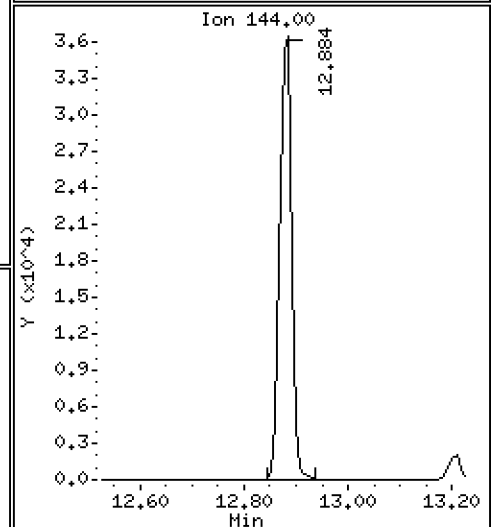
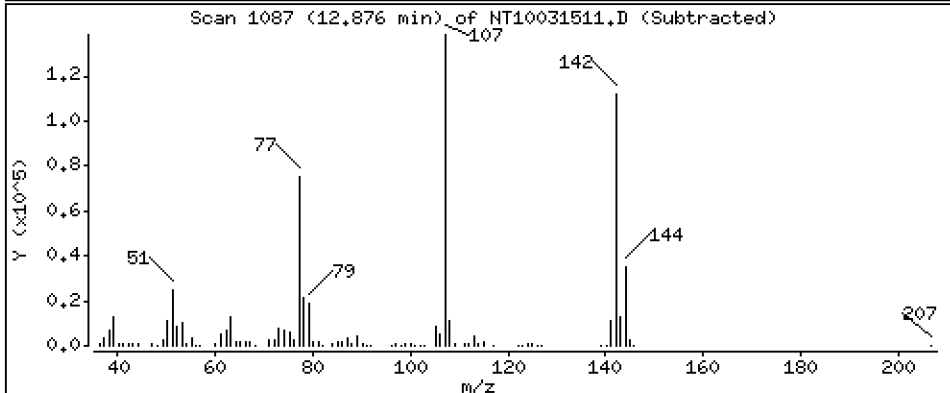
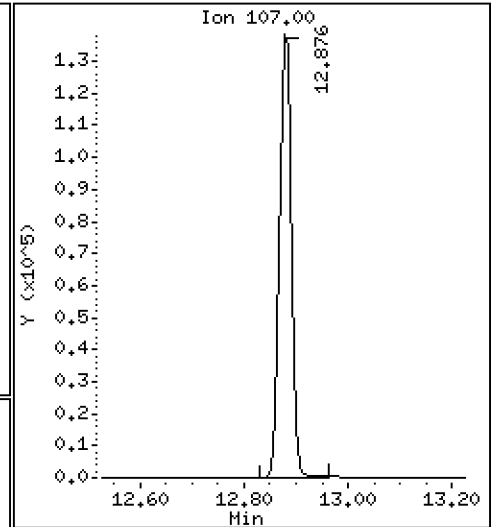
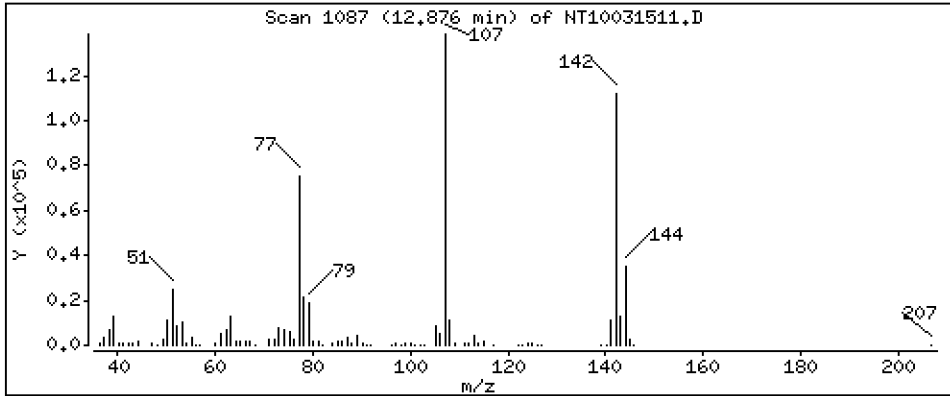
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 4,640 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

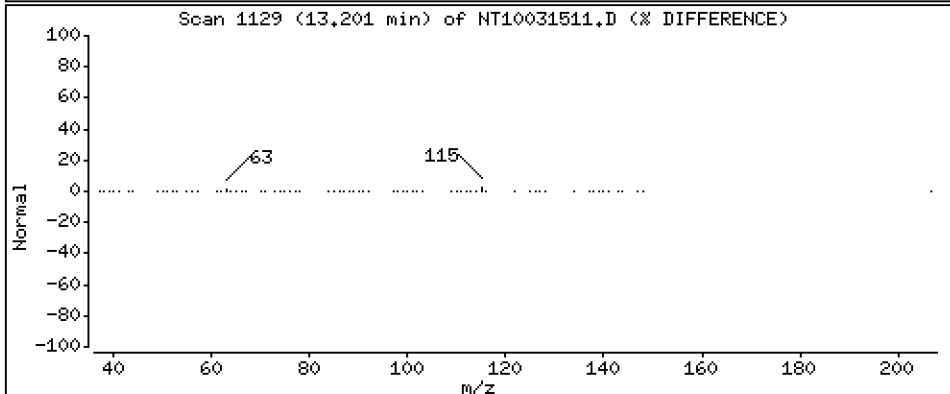
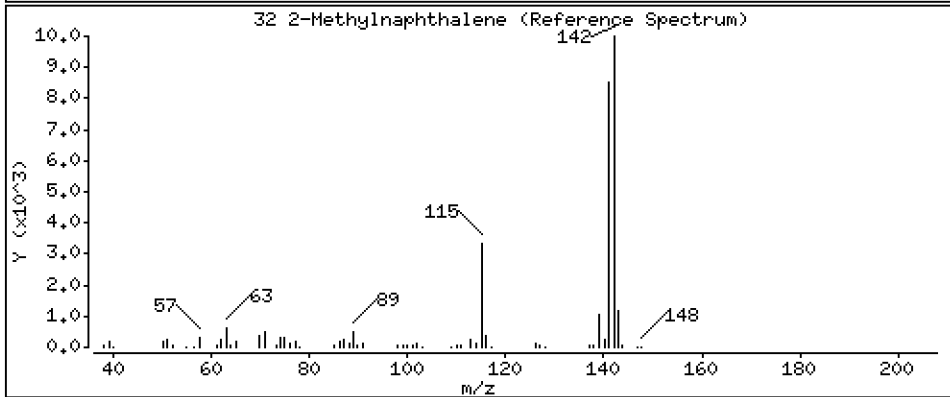
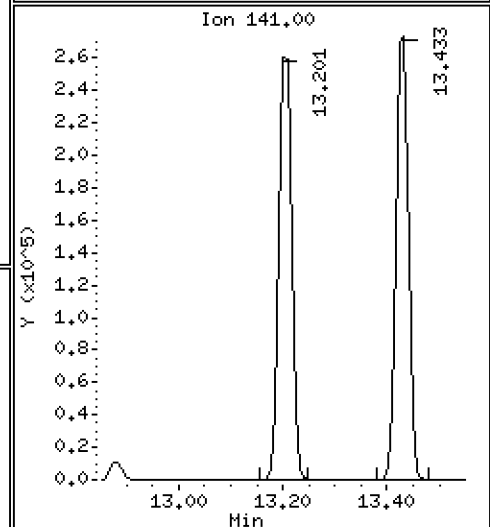
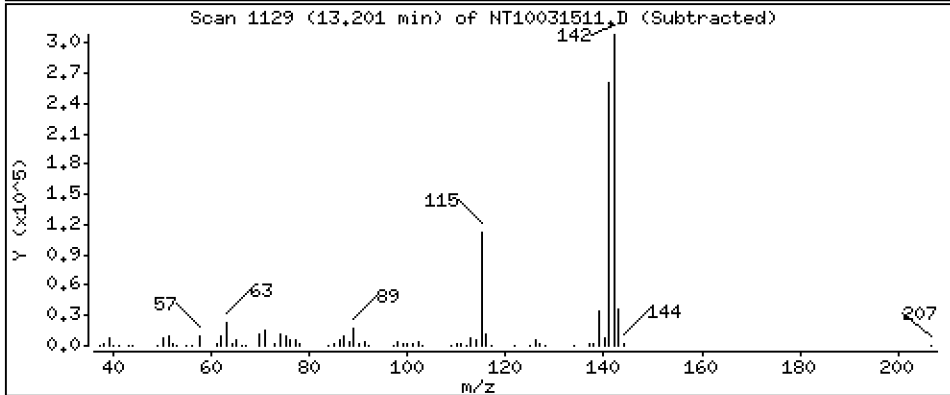
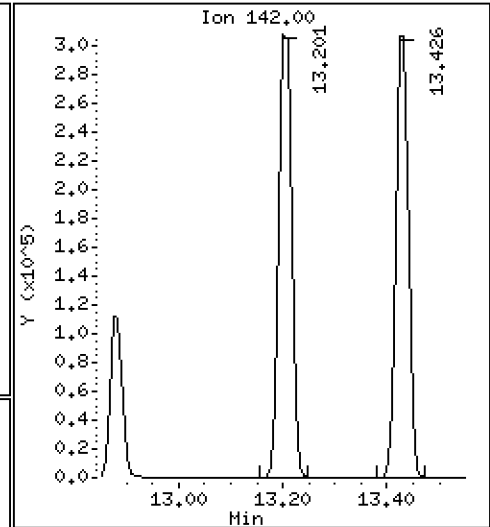
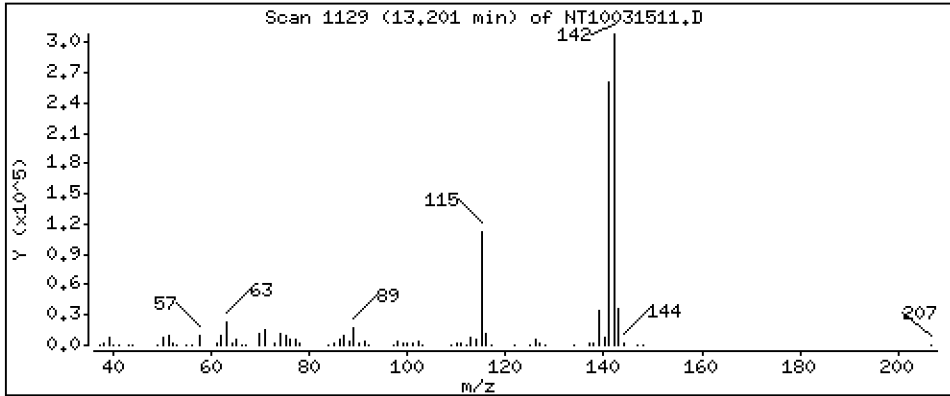
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,596 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

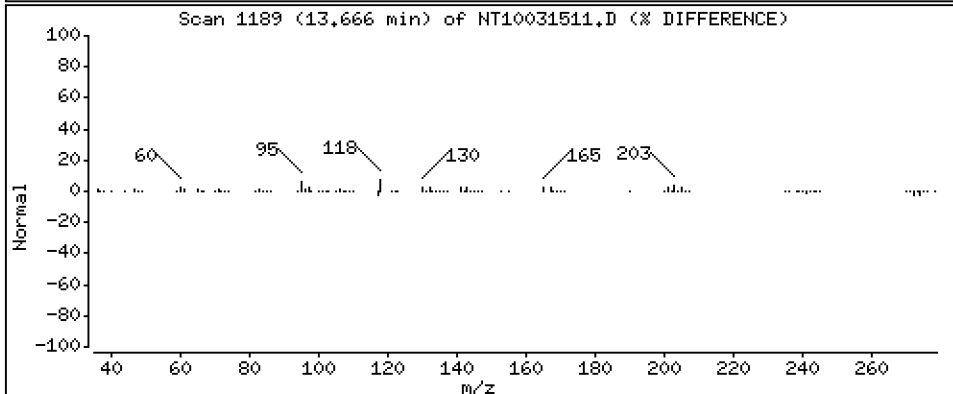
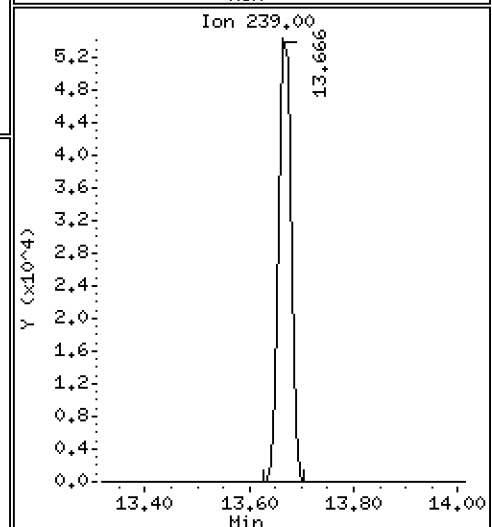
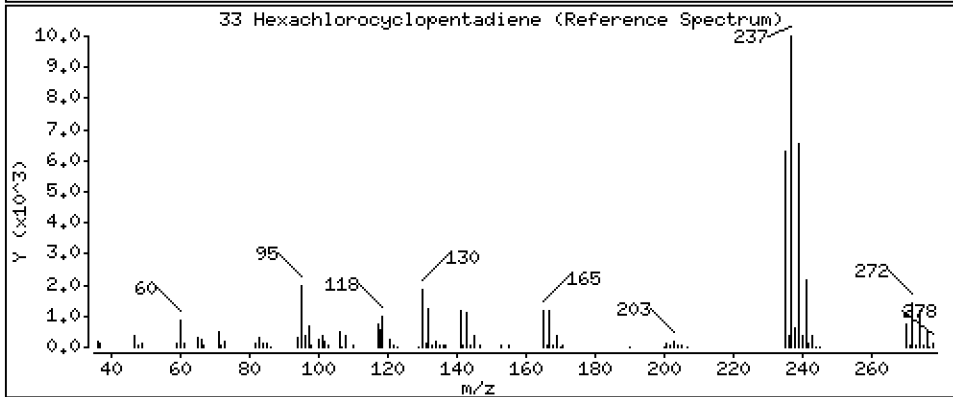
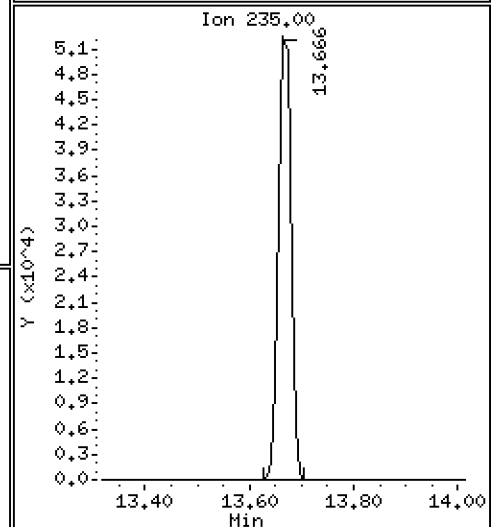
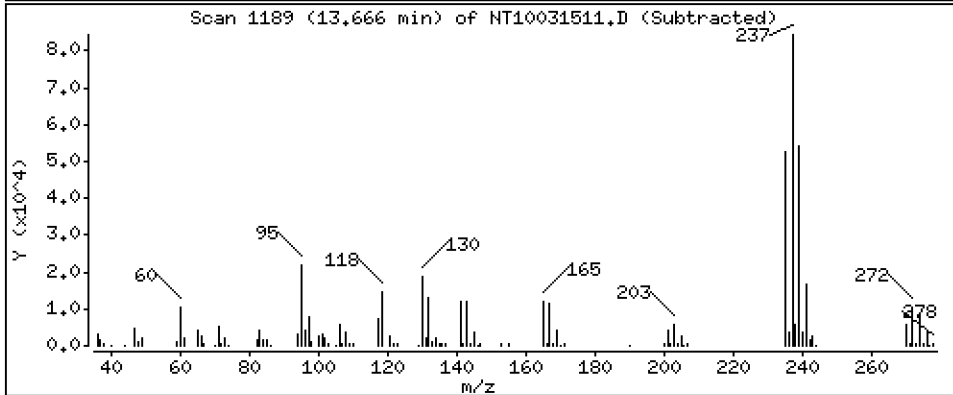
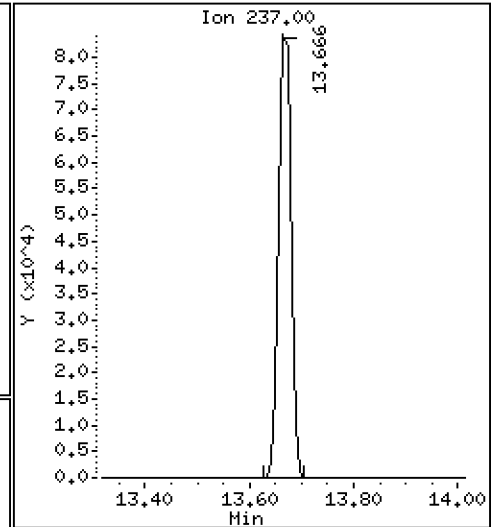
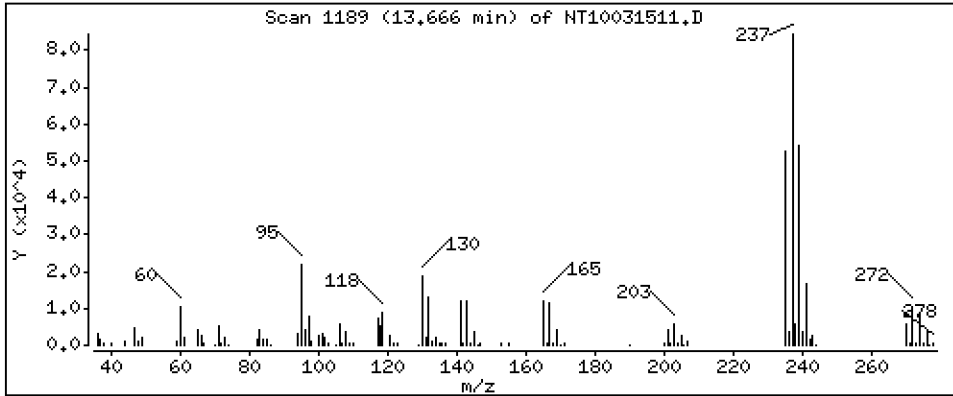
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

33 Hexachlorocyclopentadiene

Concentration: 4.729 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

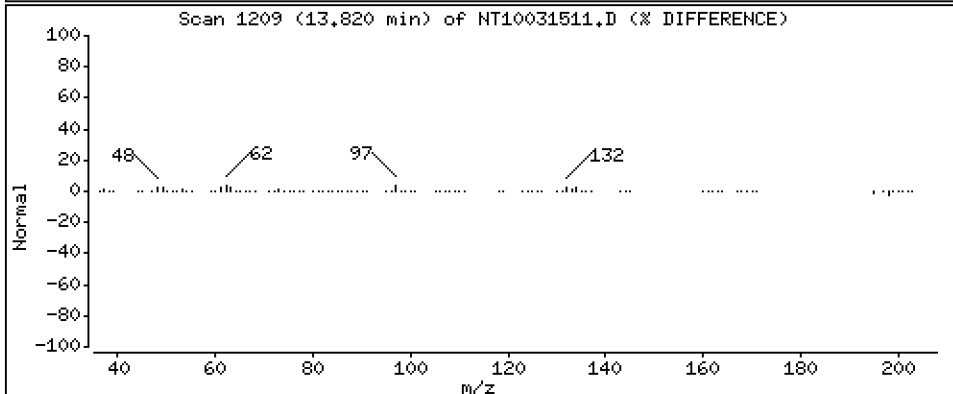
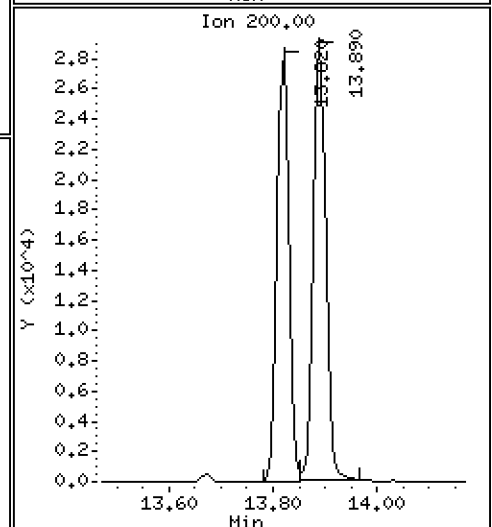
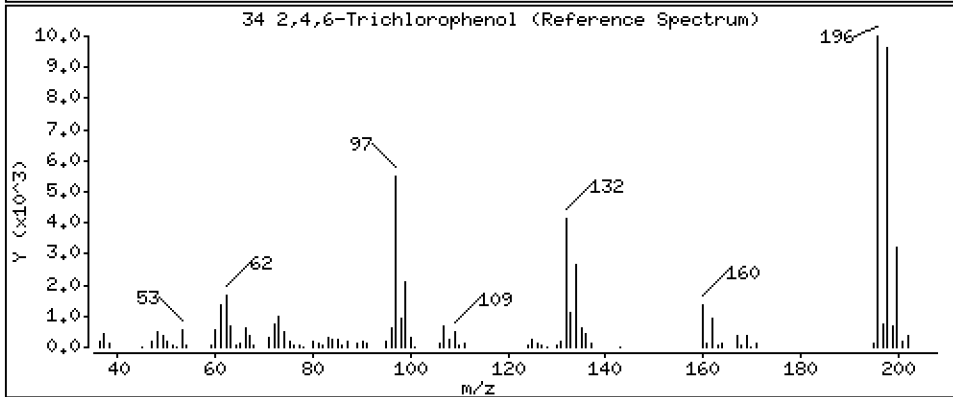
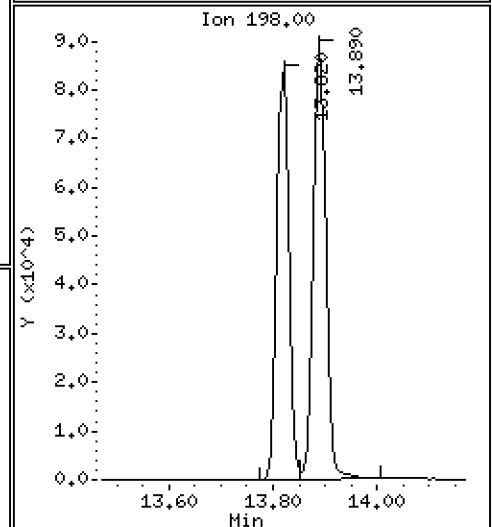
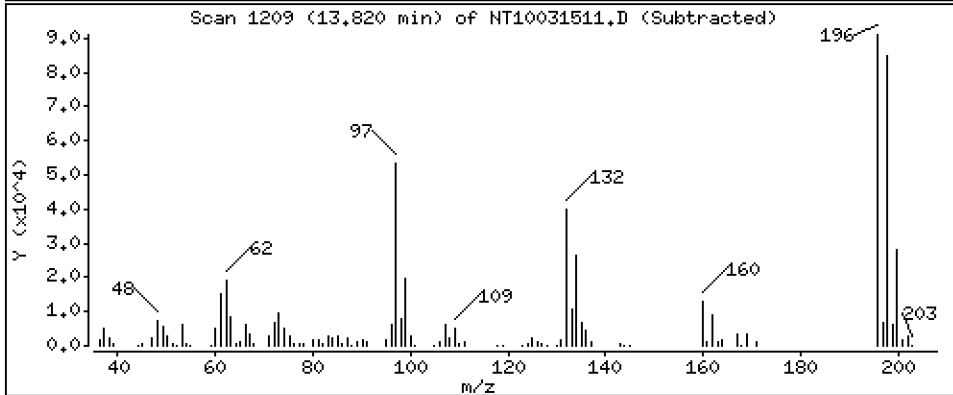
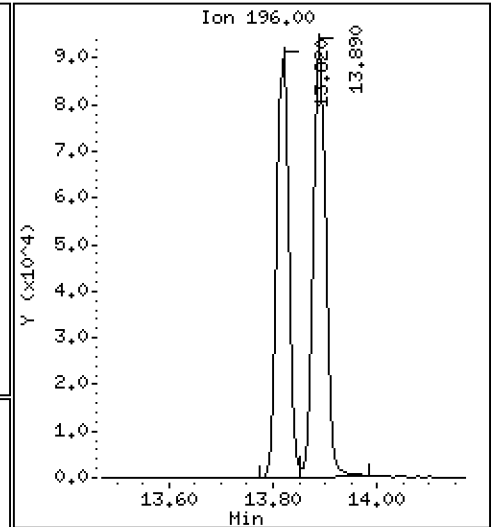
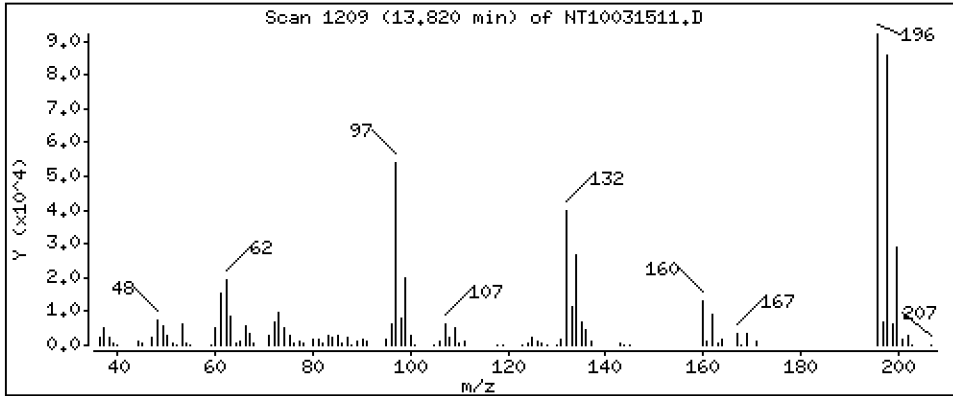
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 4,596 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

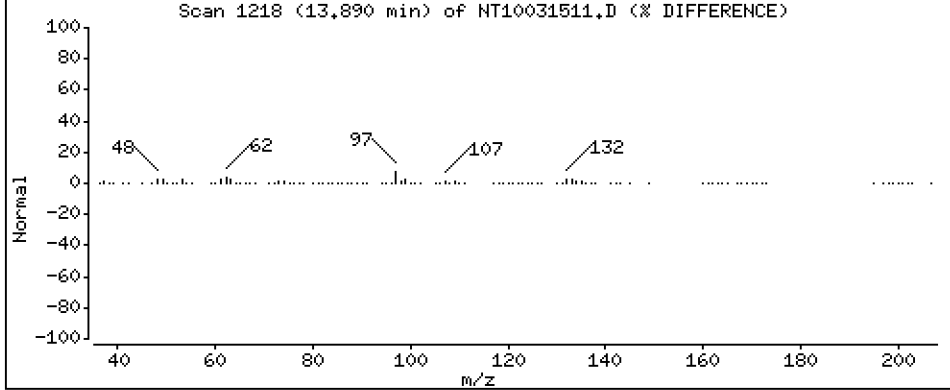
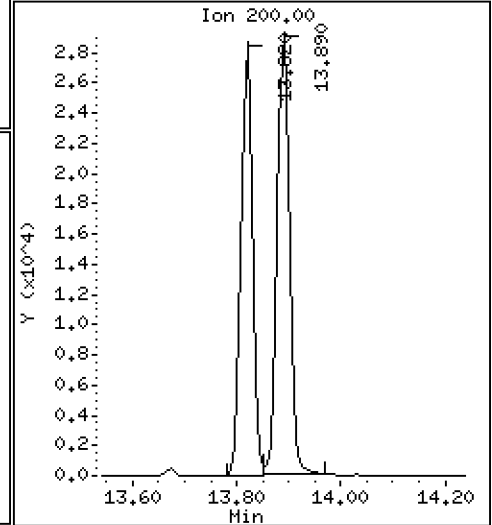
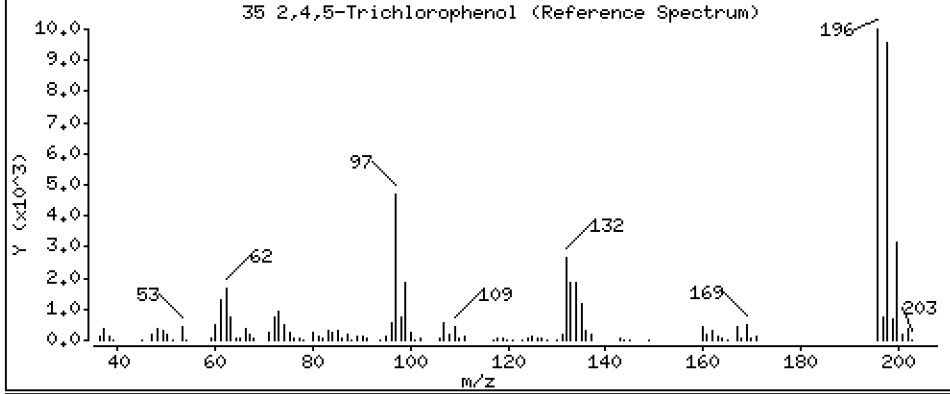
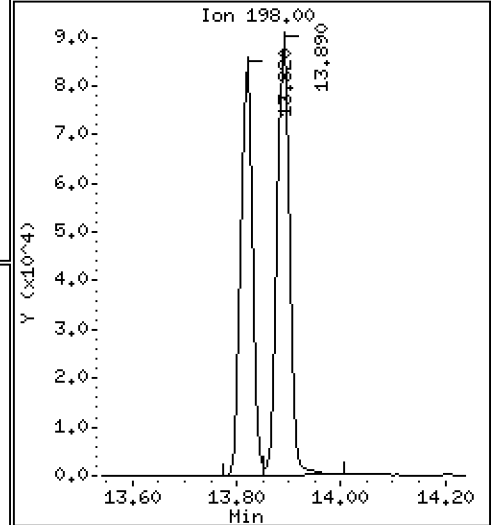
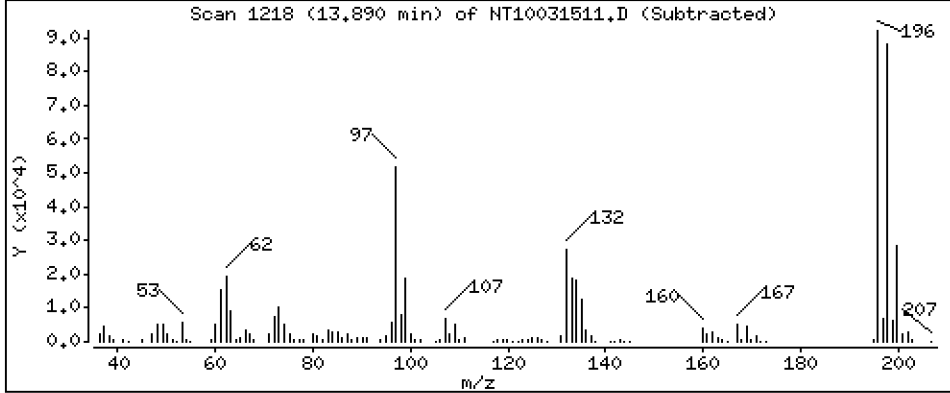
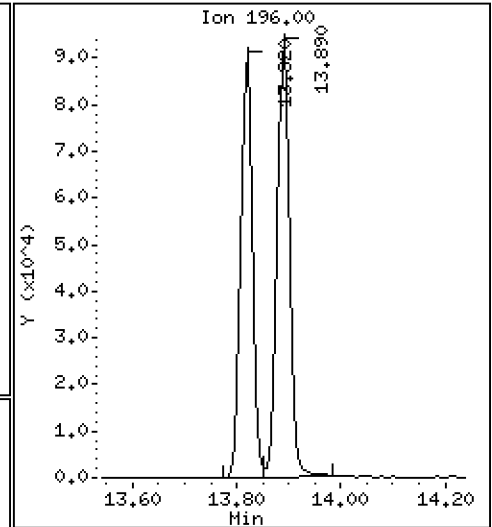
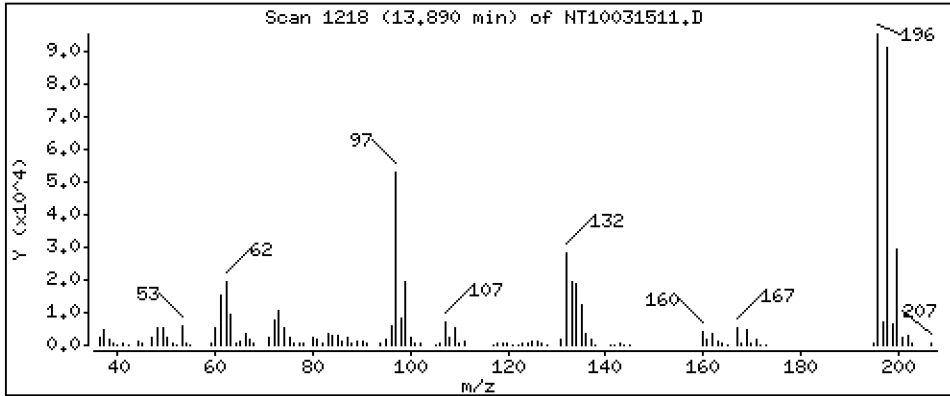
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 4,409 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

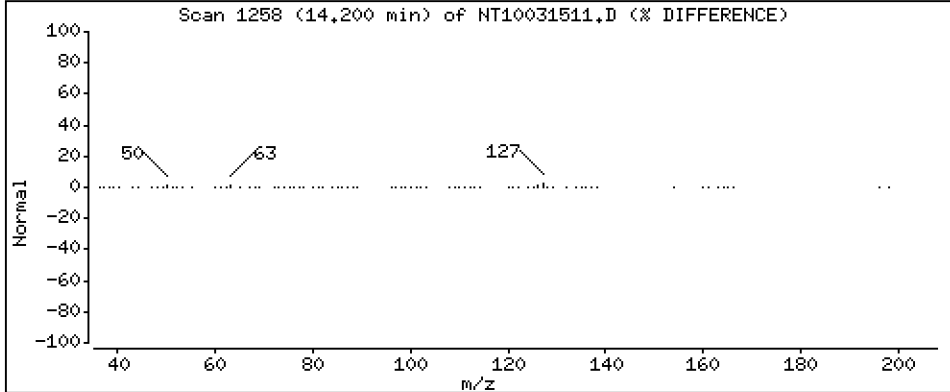
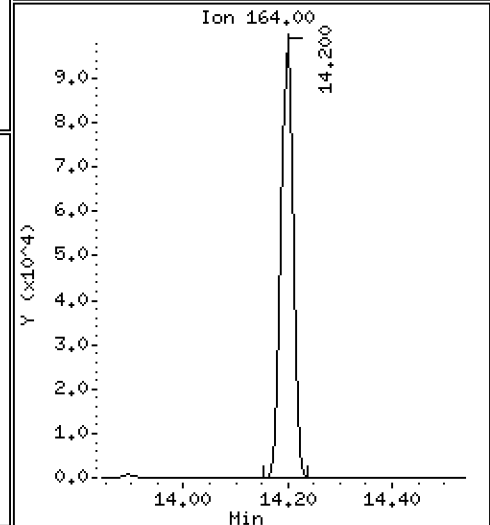
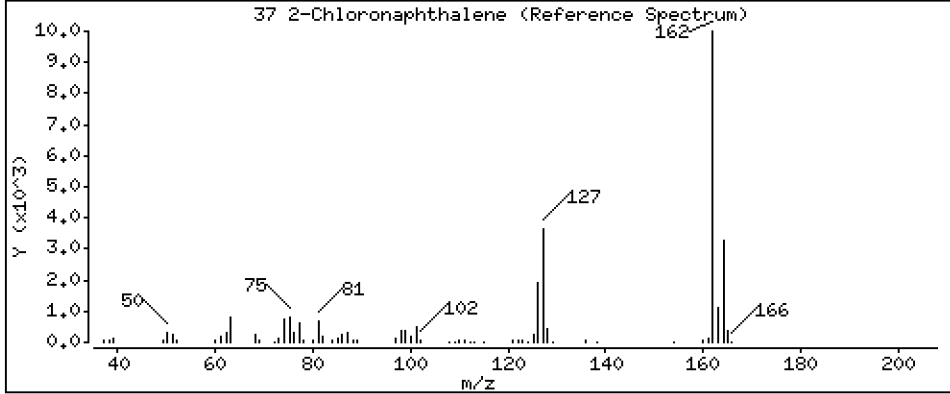
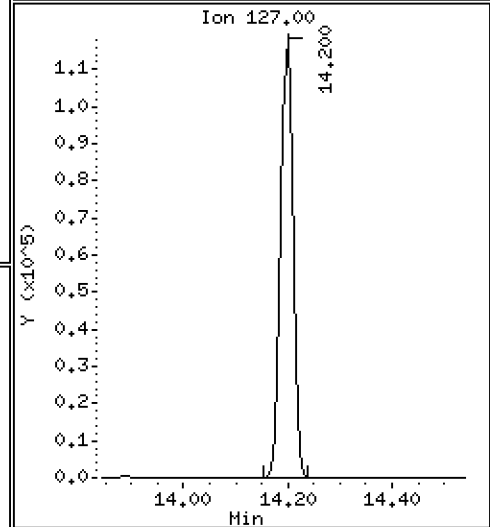
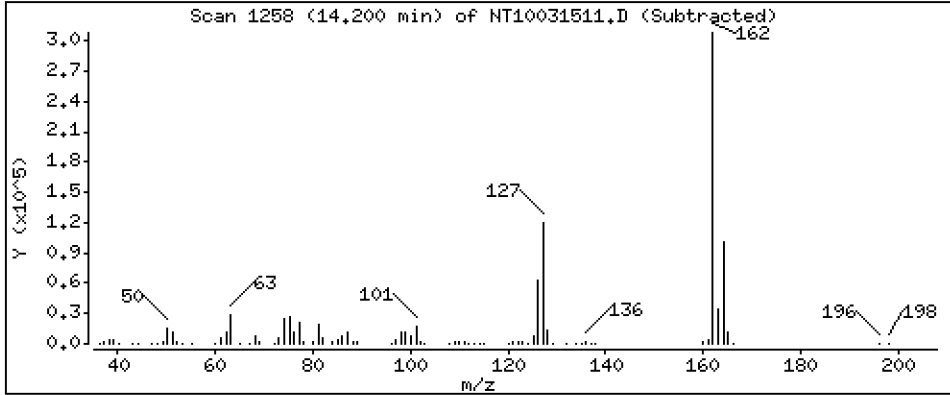
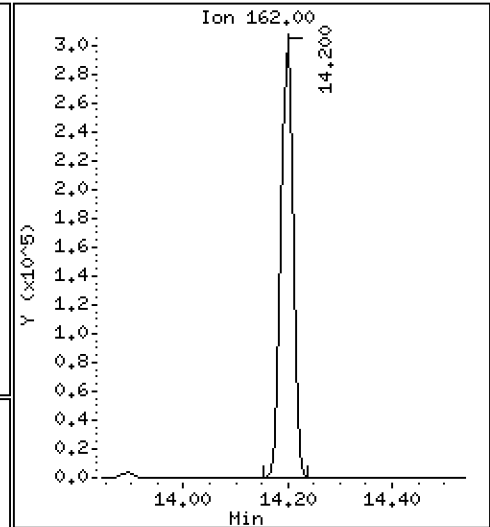
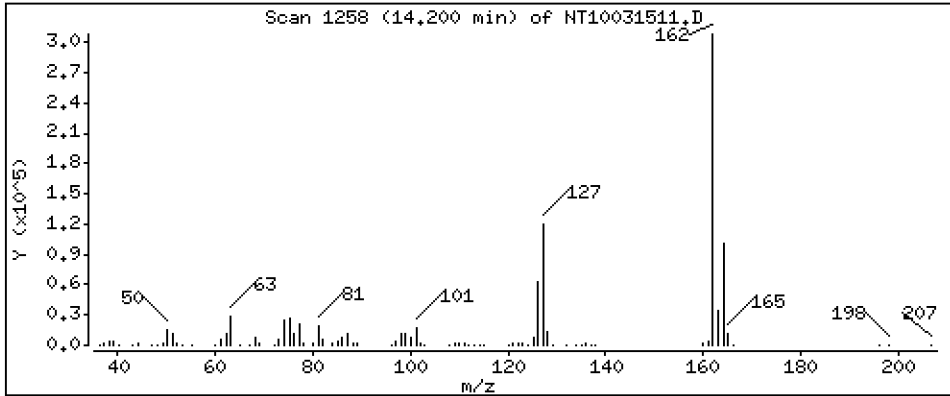
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,796 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

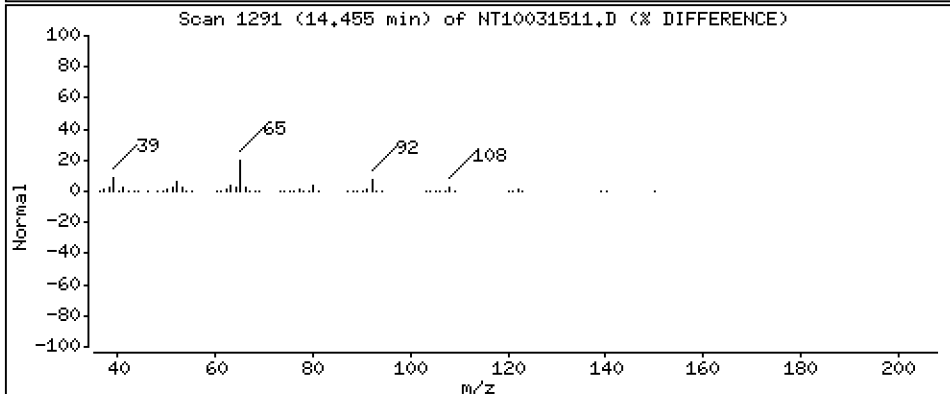
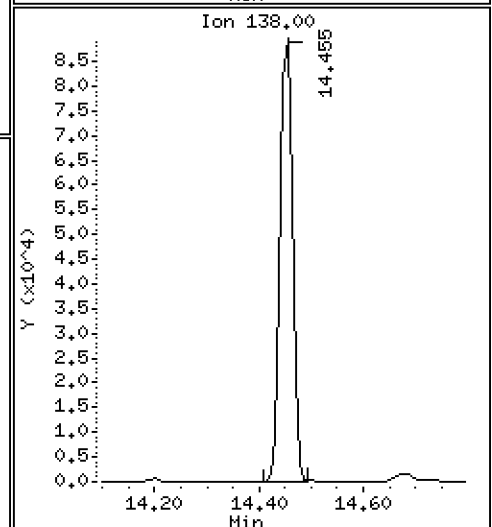
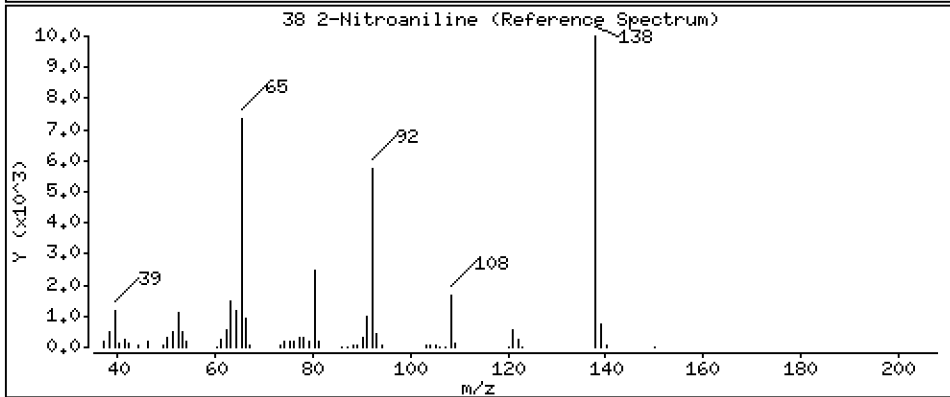
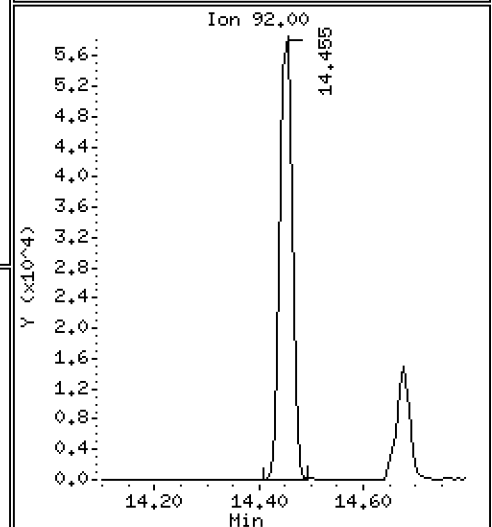
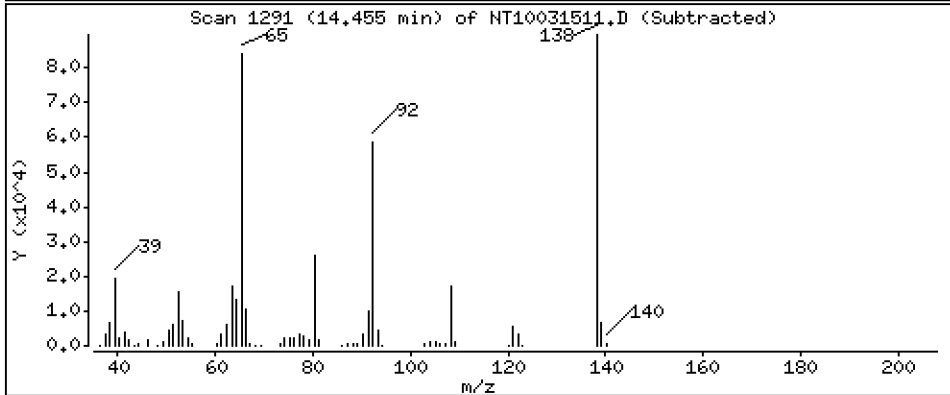
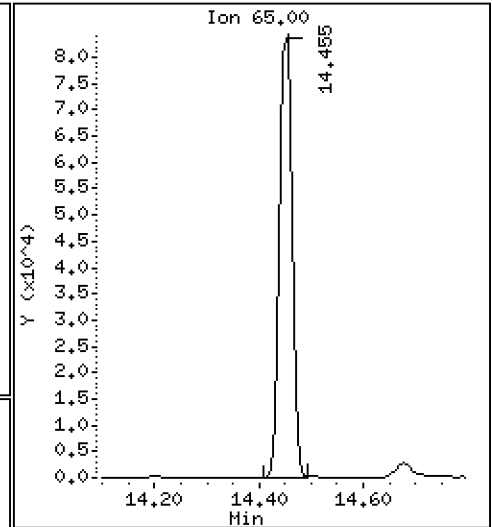
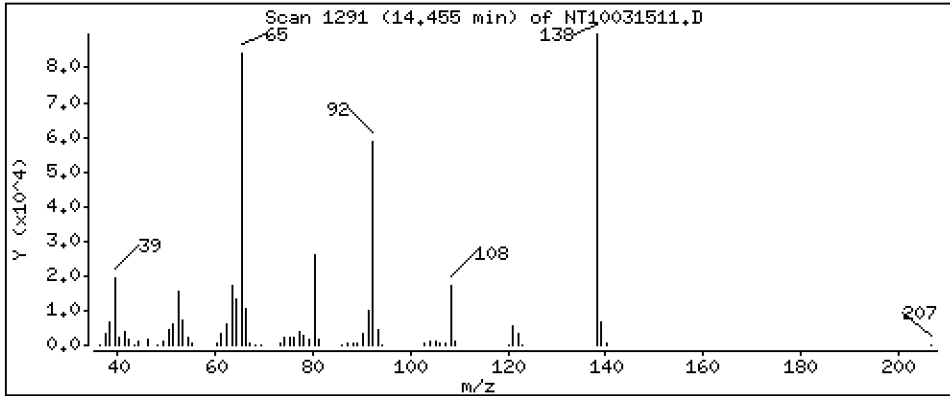
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 4,911 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

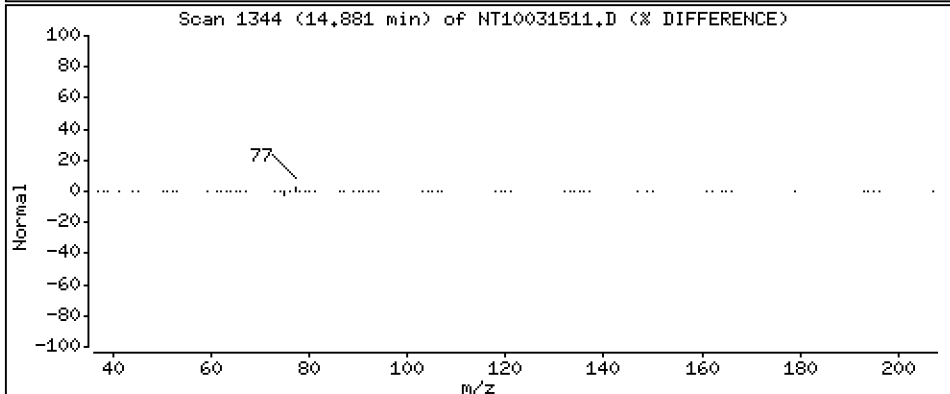
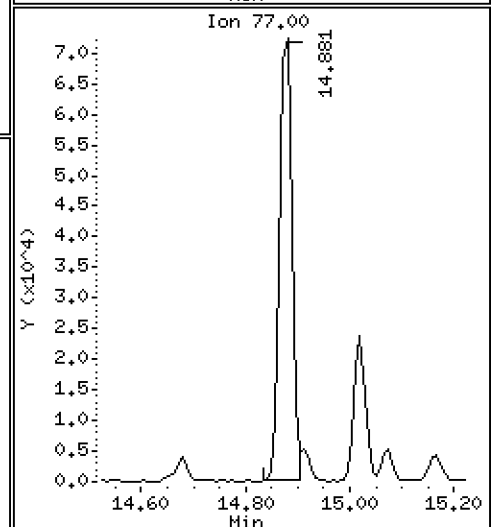
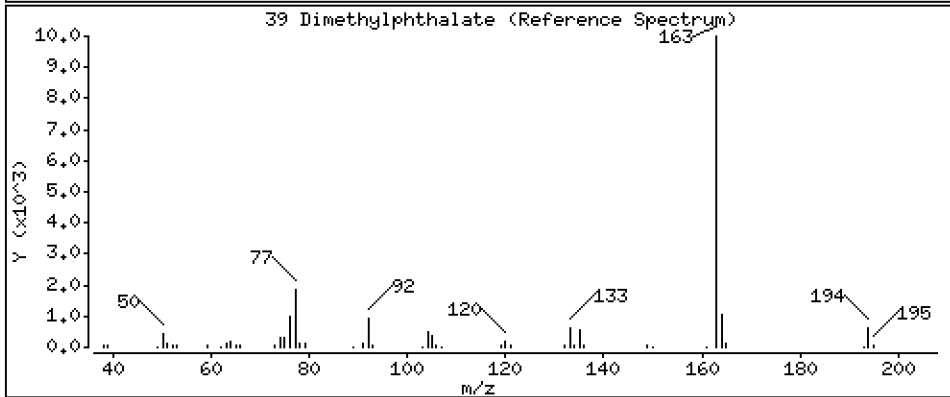
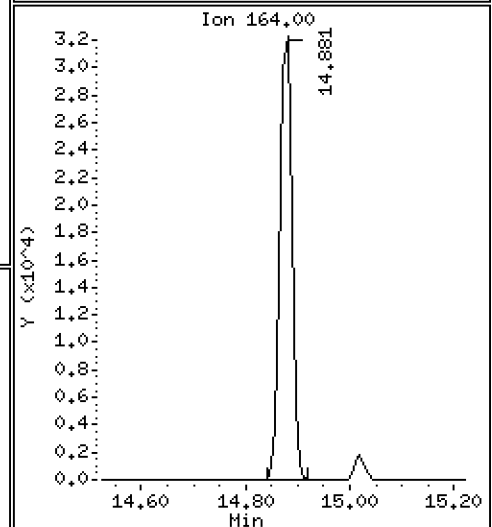
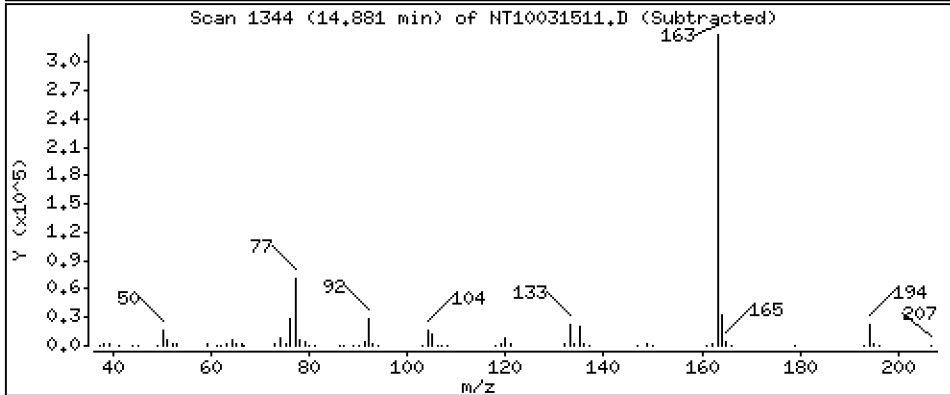
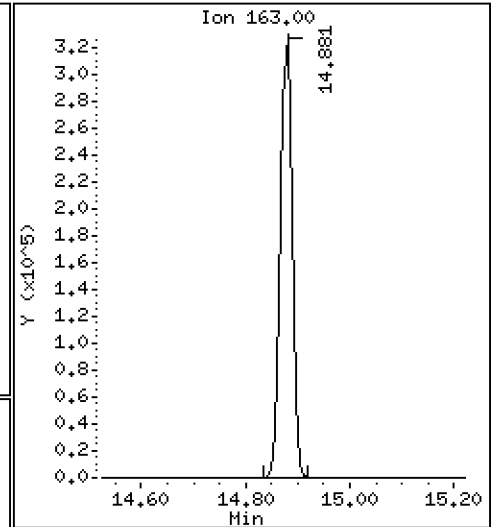
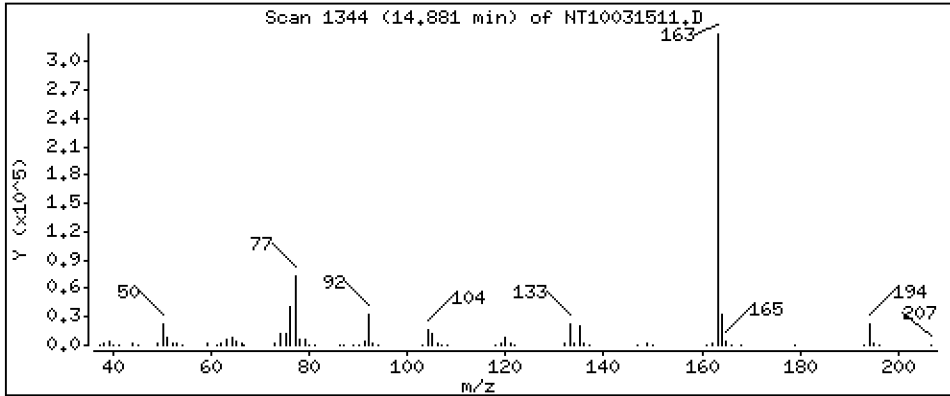
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,937 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

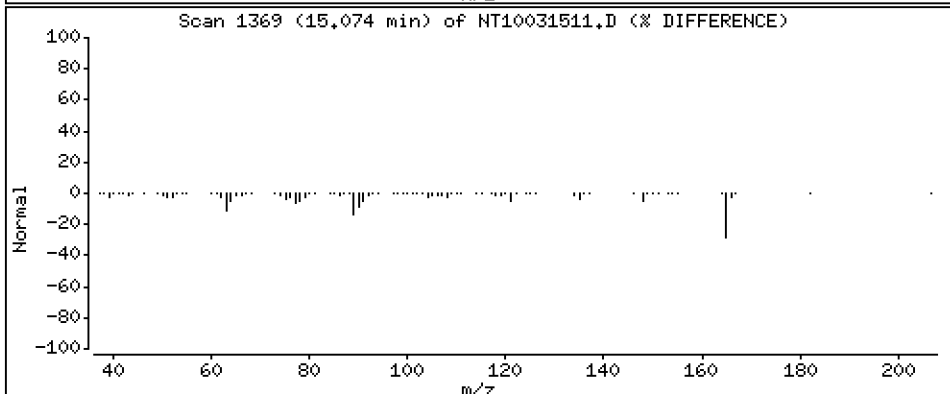
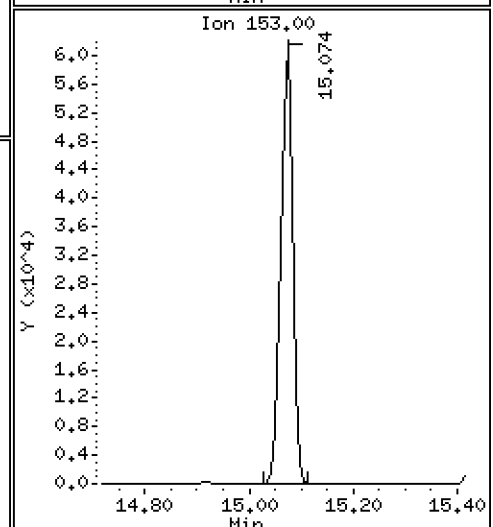
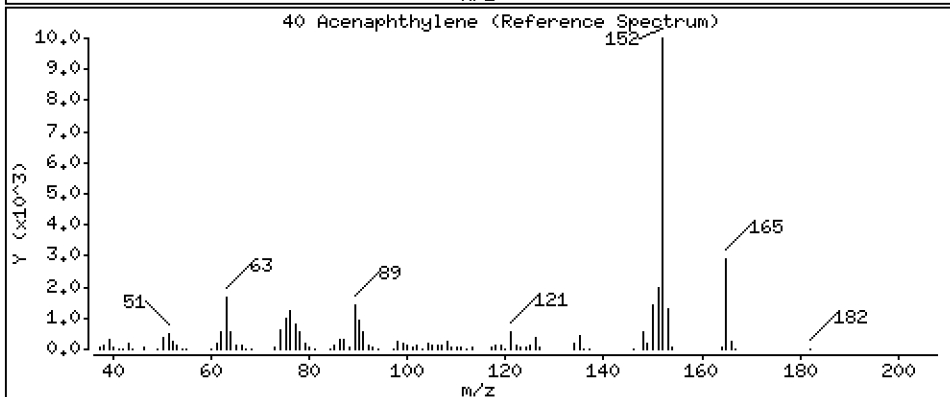
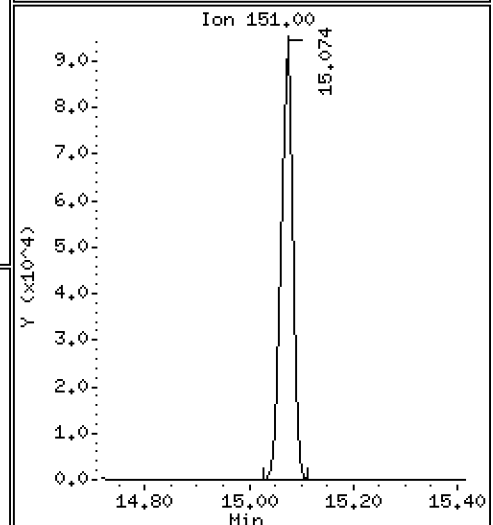
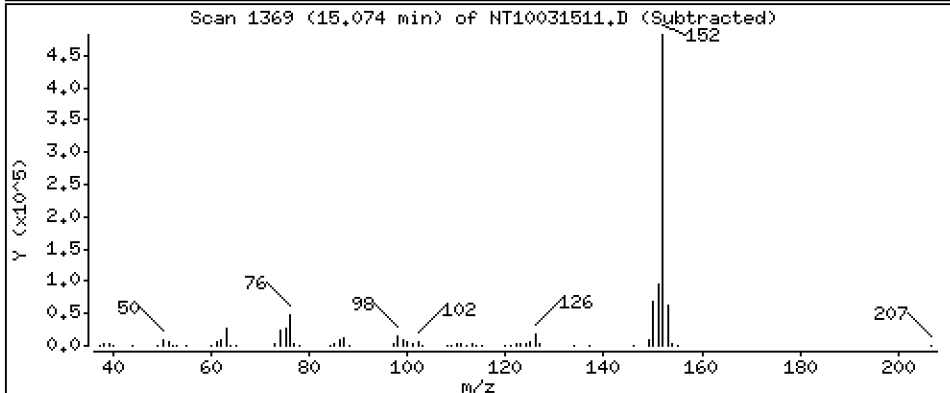
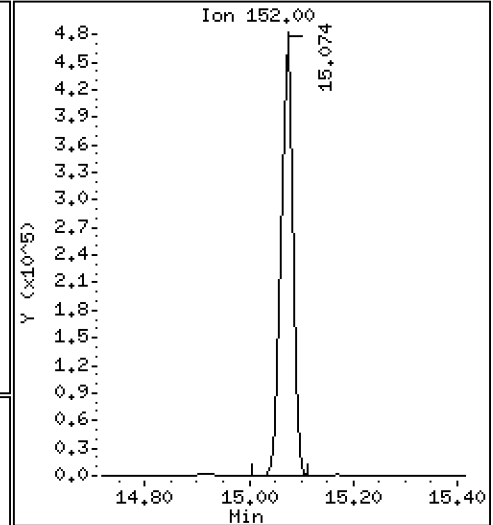
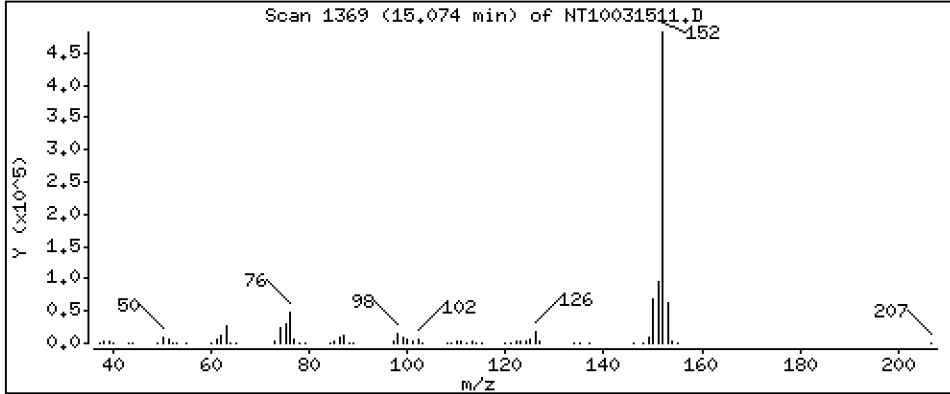
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,805 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

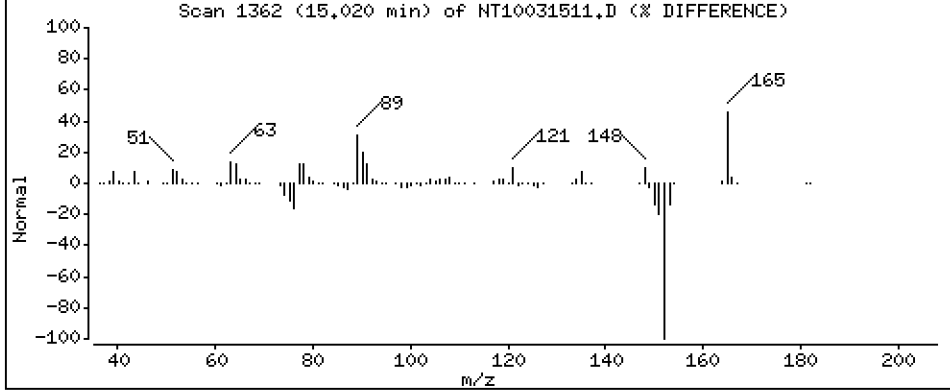
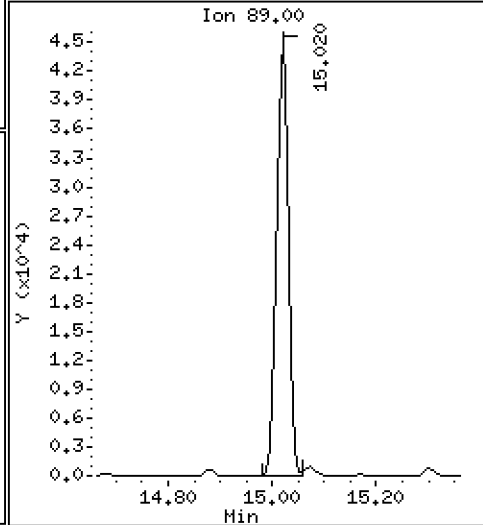
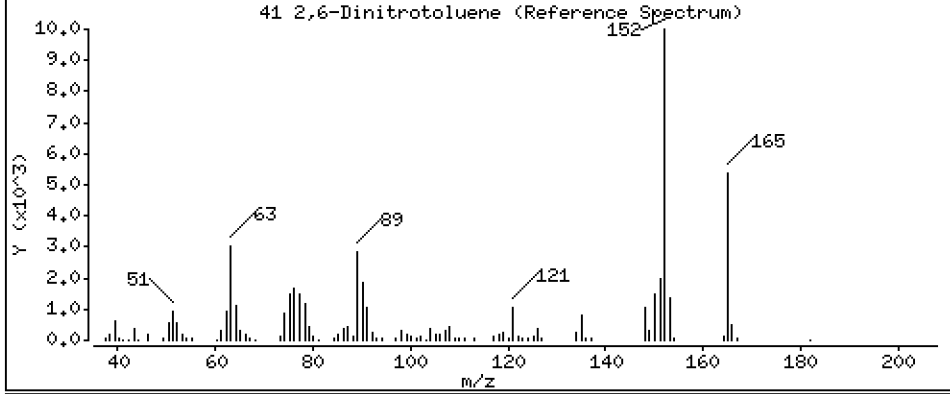
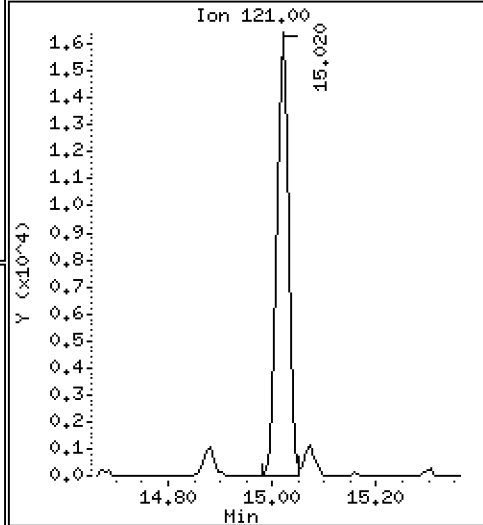
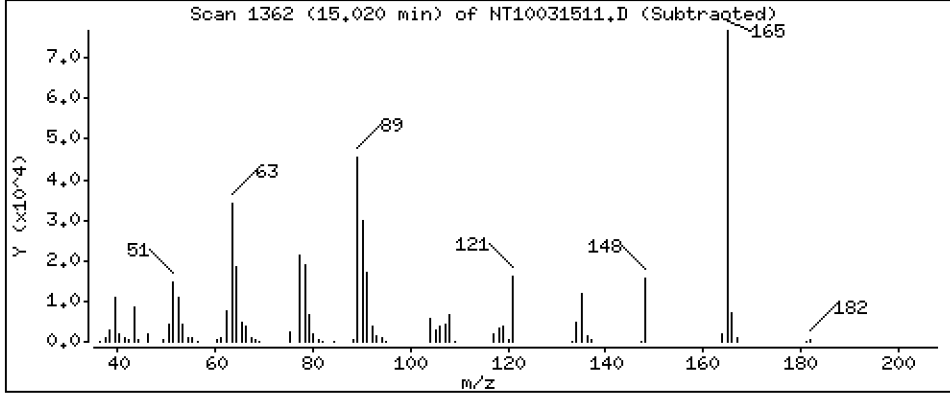
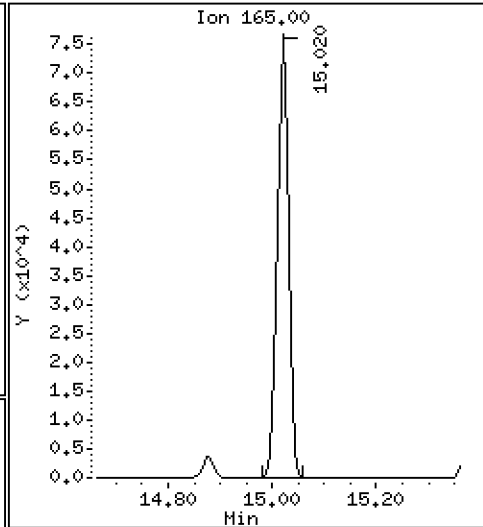
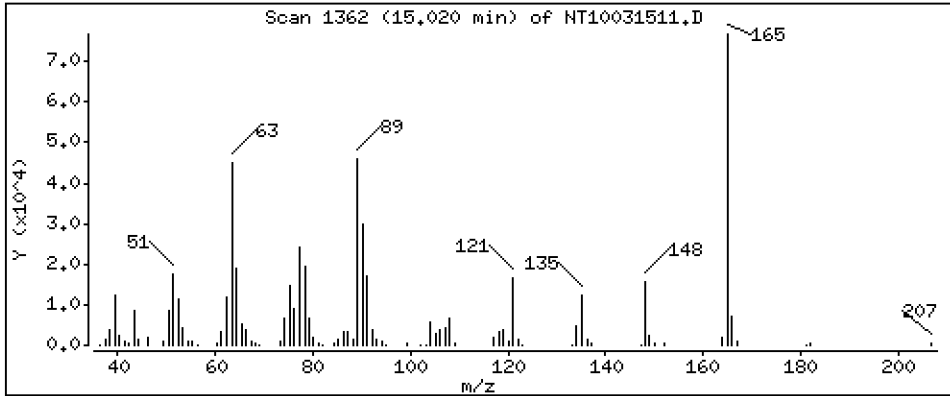
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 5,298 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

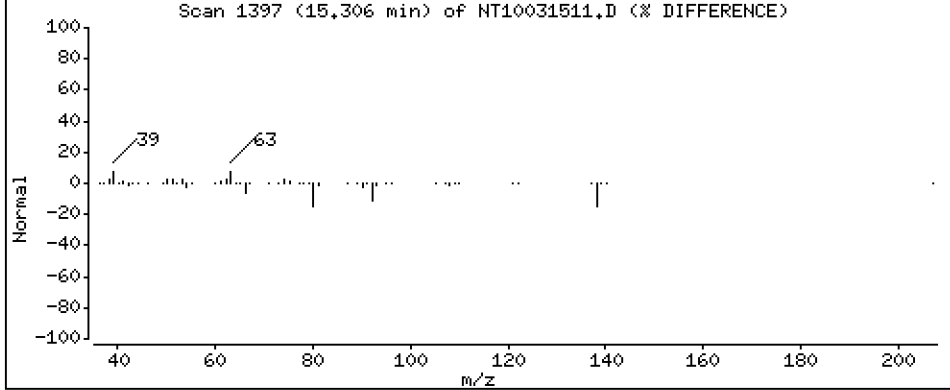
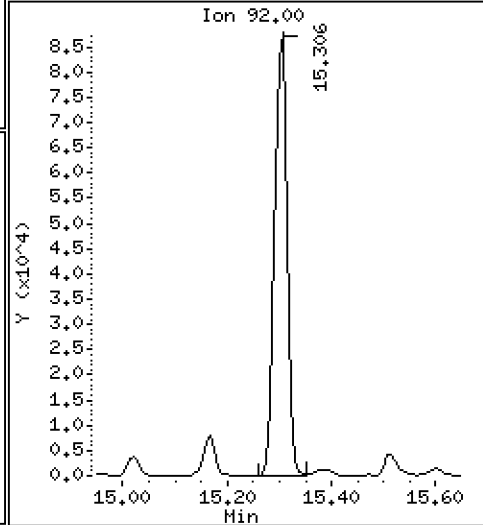
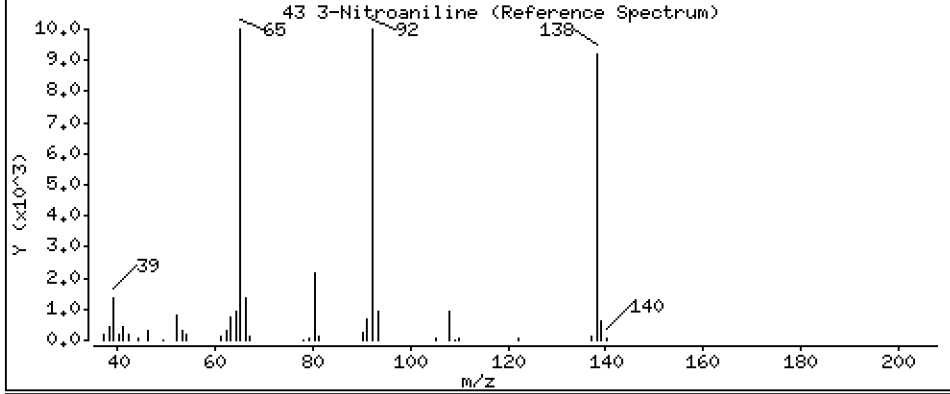
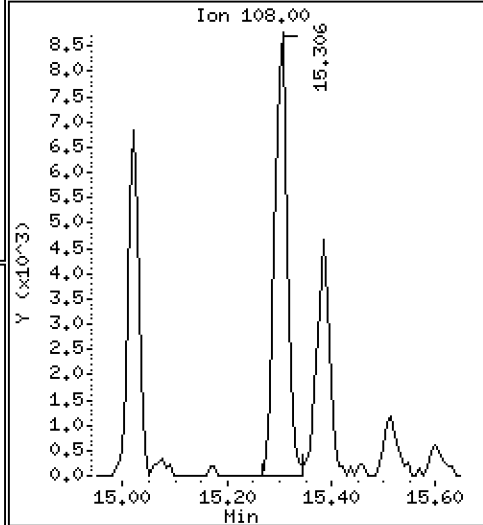
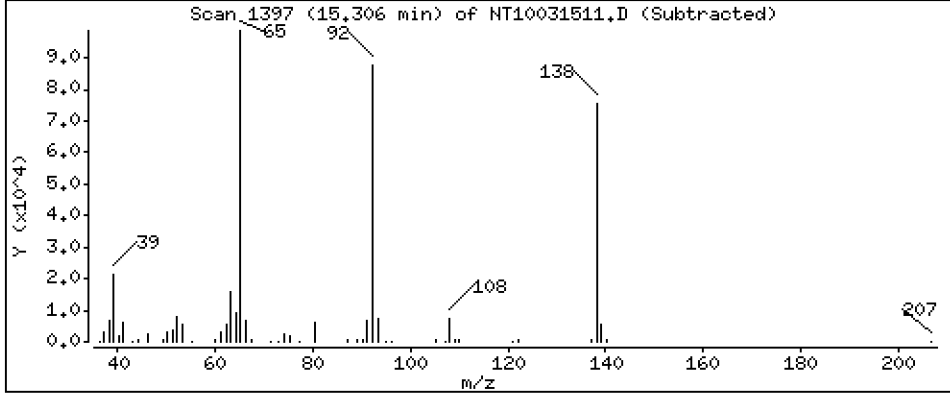
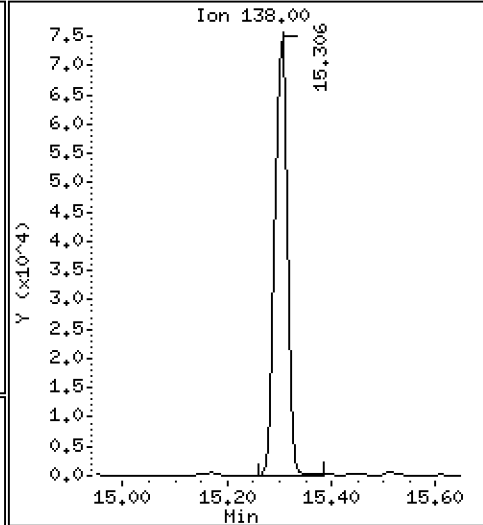
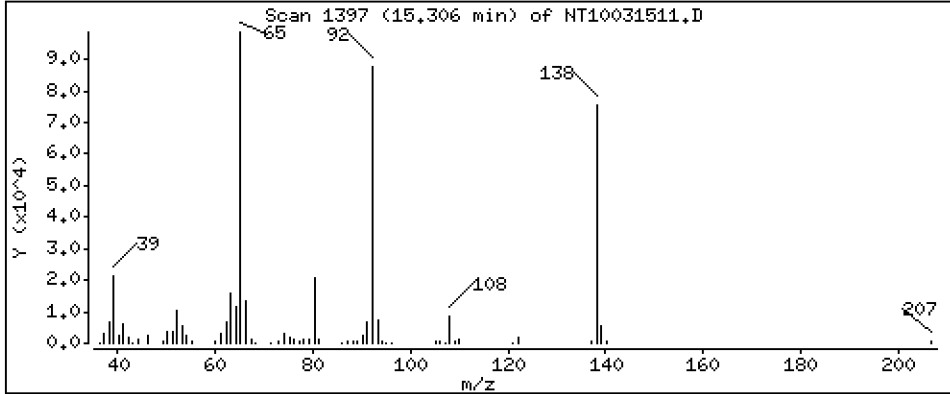
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 5,014 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

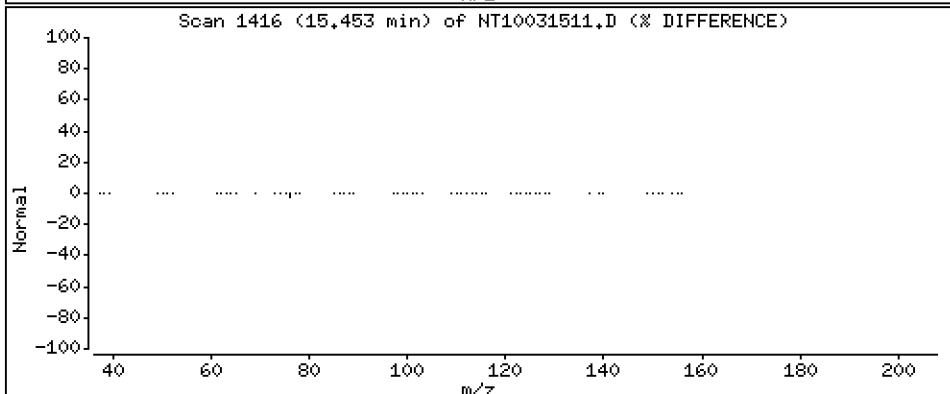
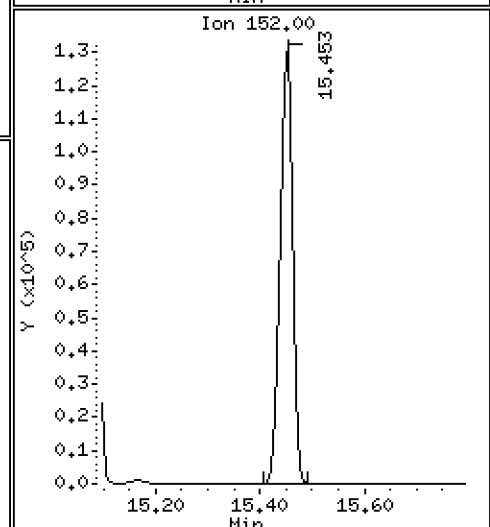
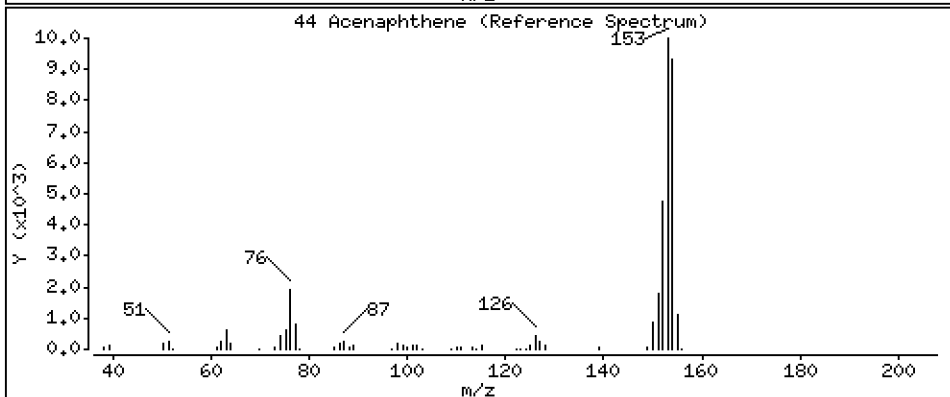
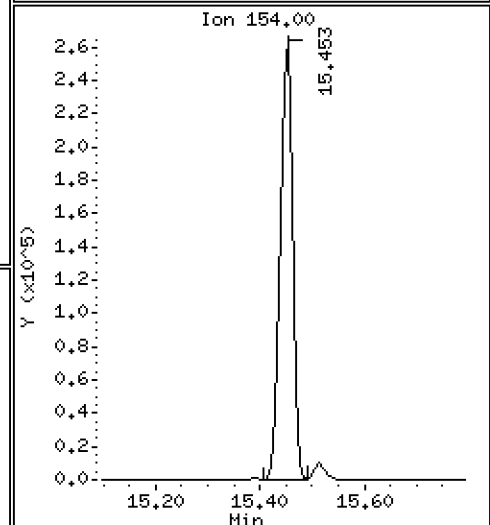
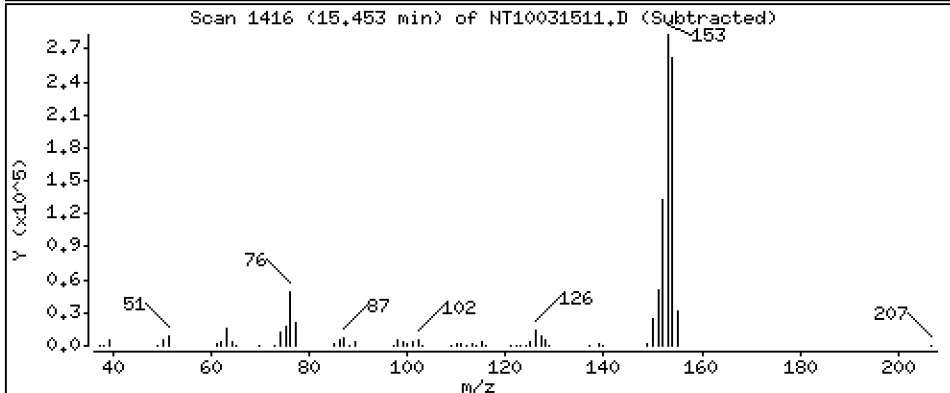
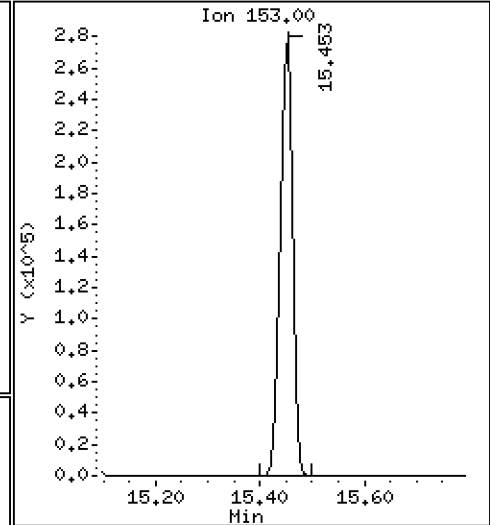
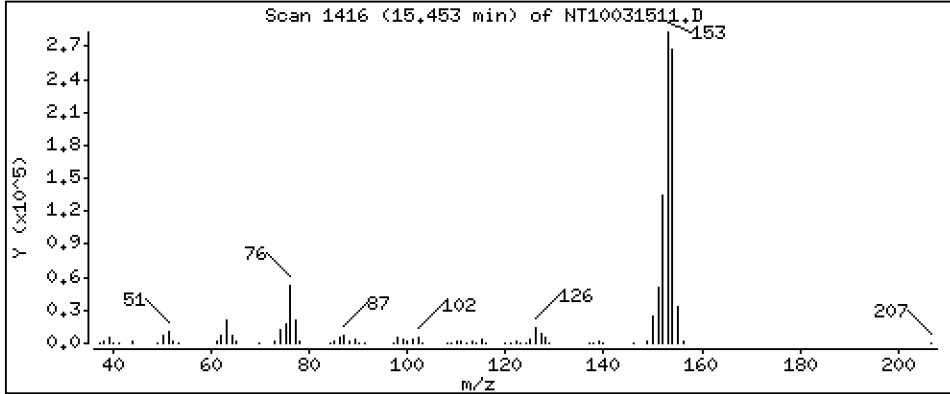
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,776 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

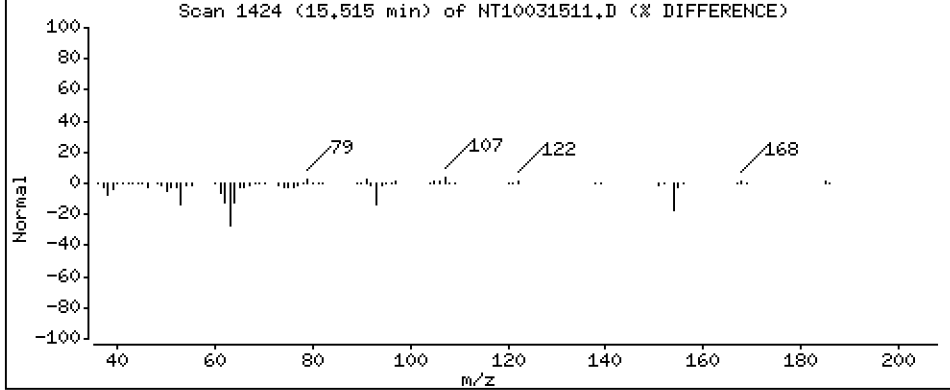
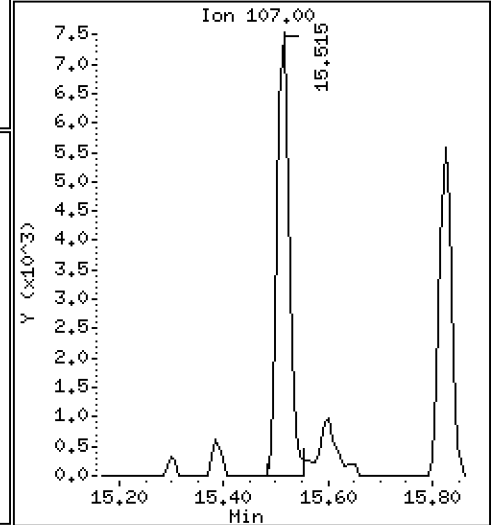
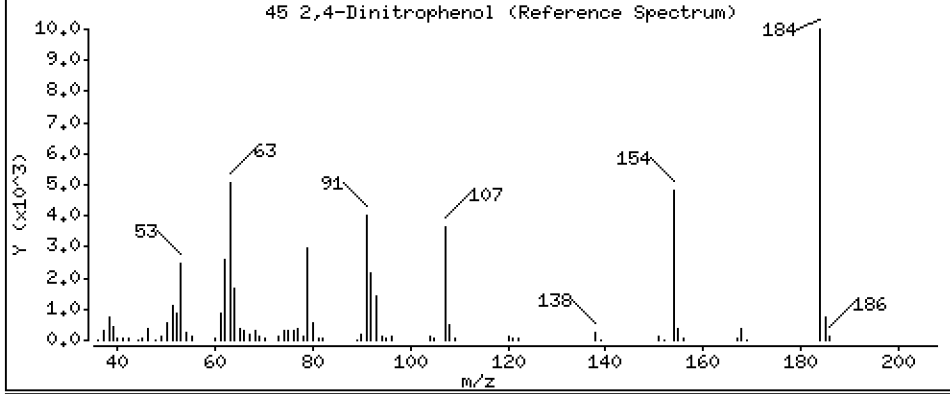
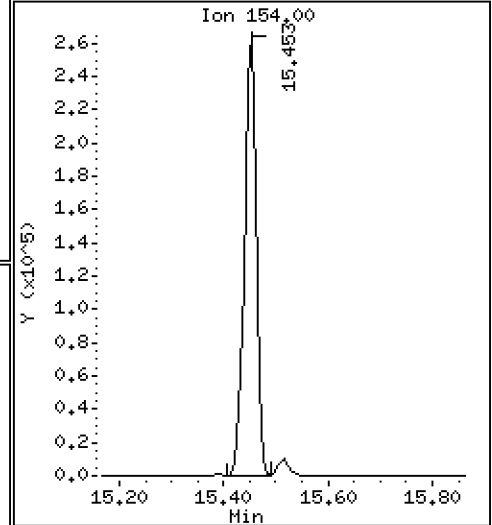
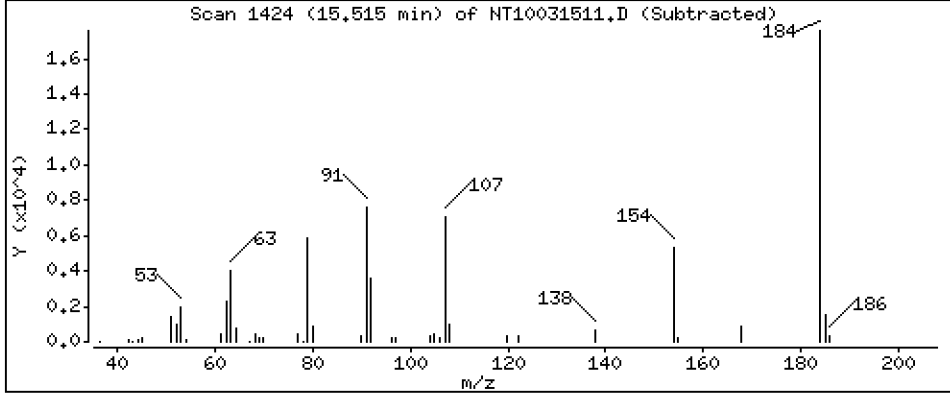
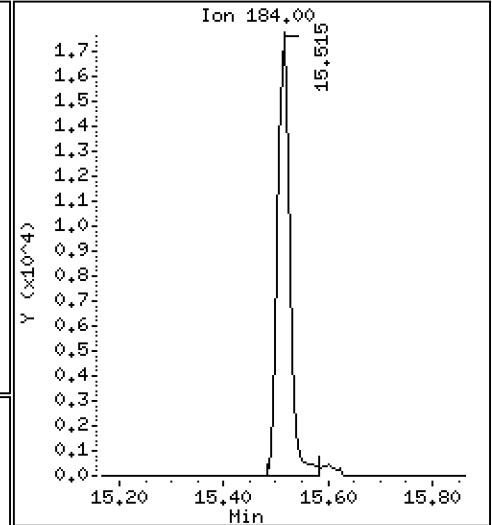
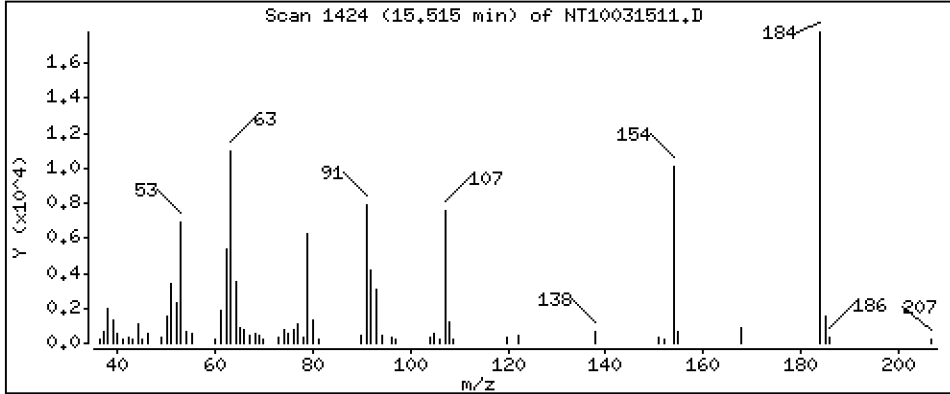
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 2,124 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

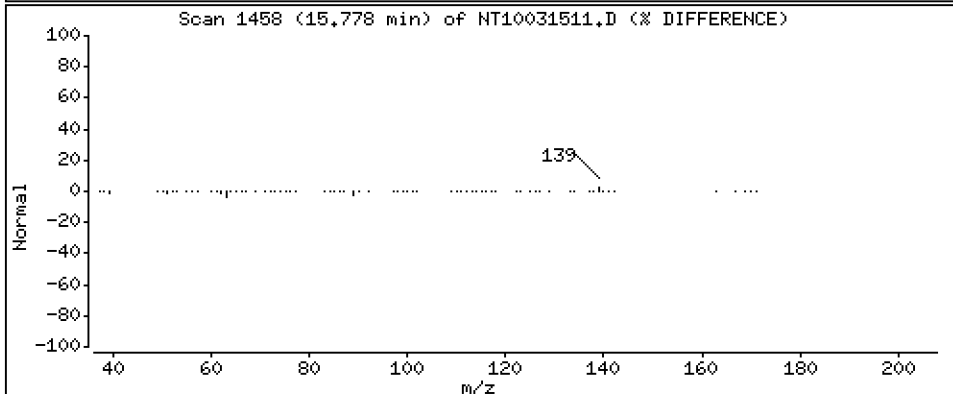
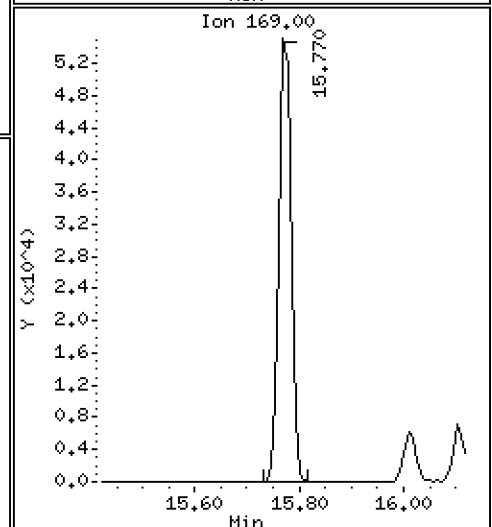
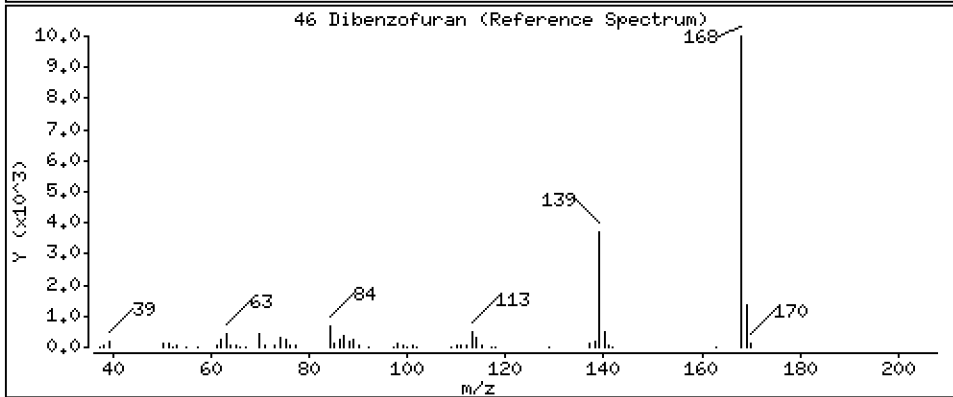
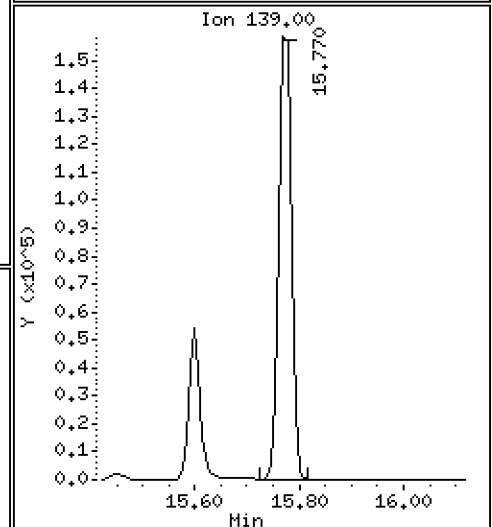
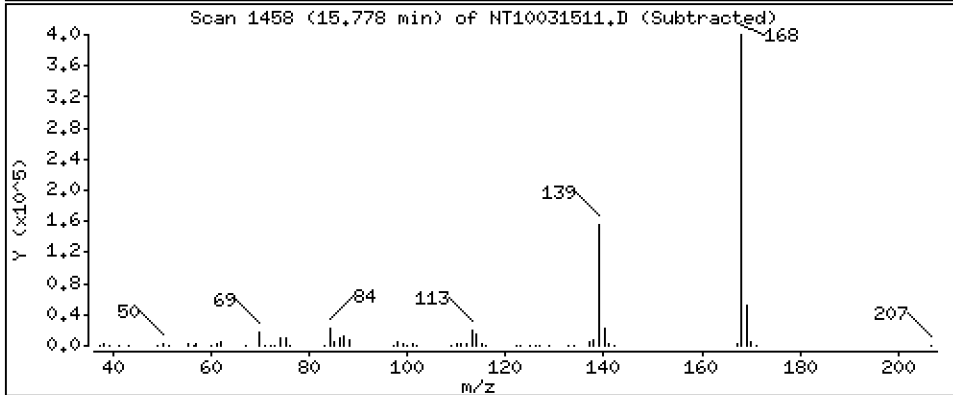
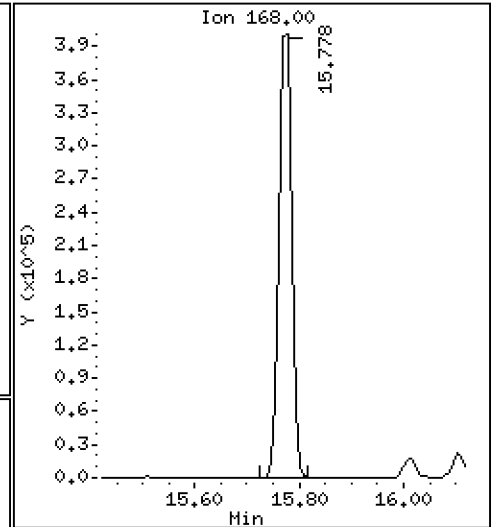
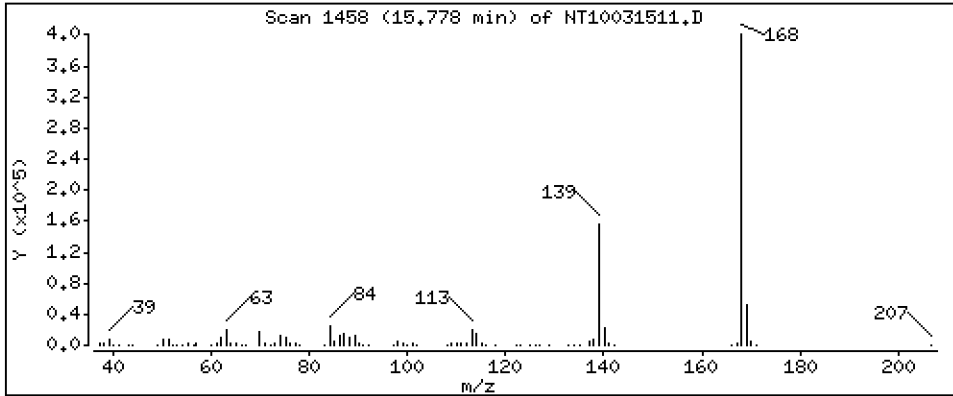
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,648 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

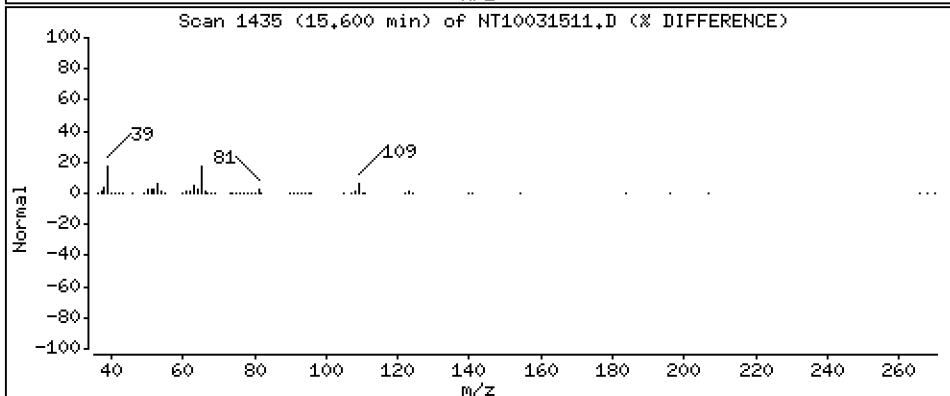
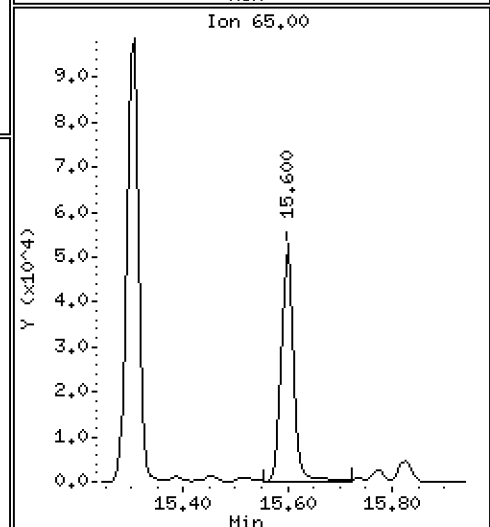
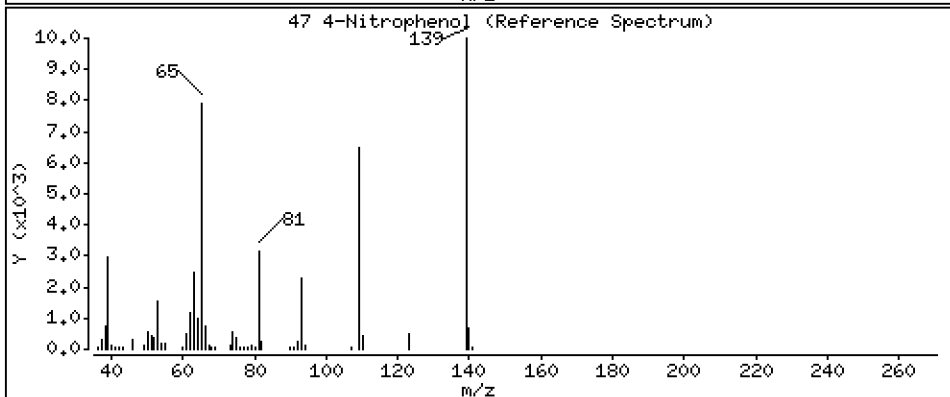
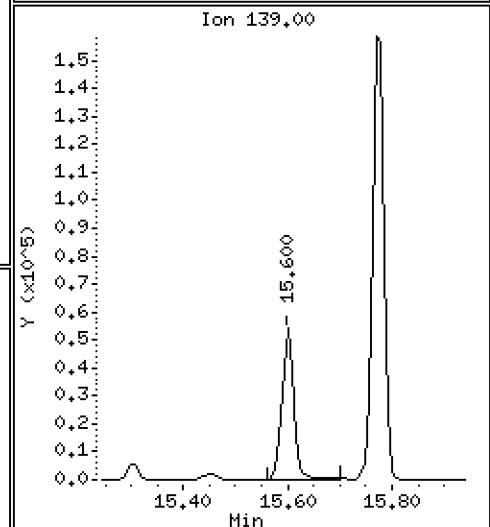
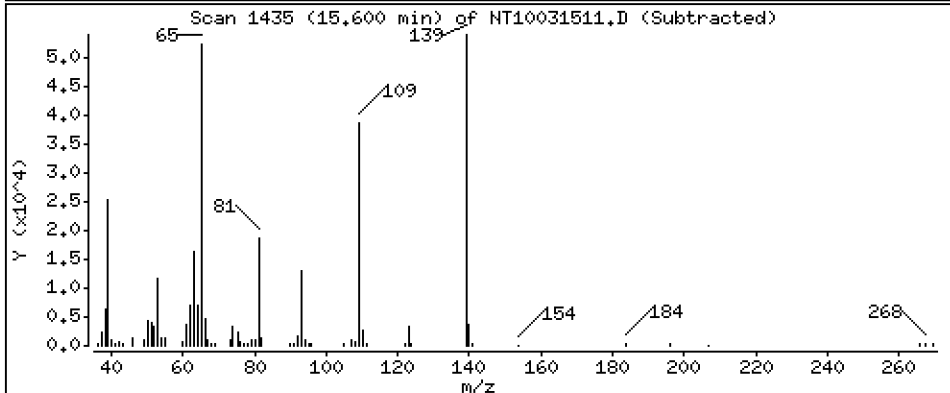
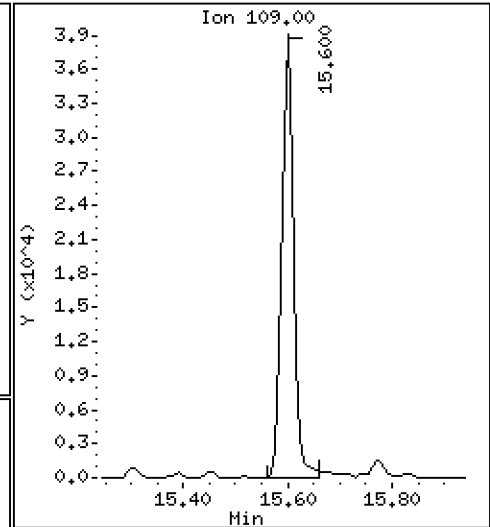
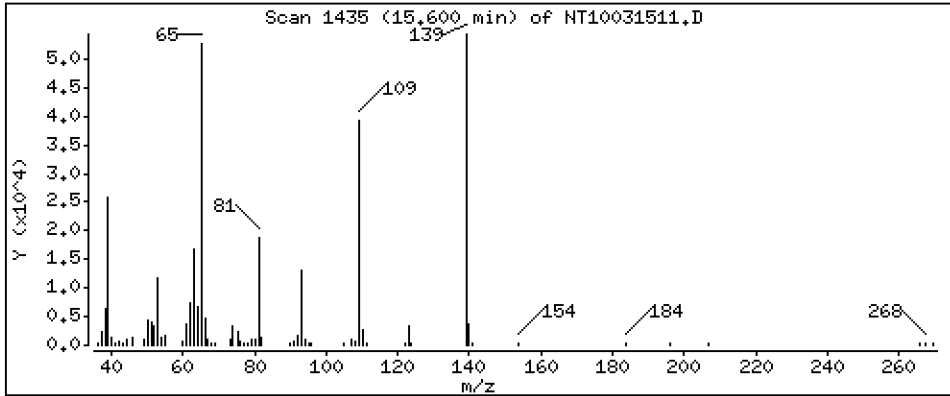
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 3,966 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

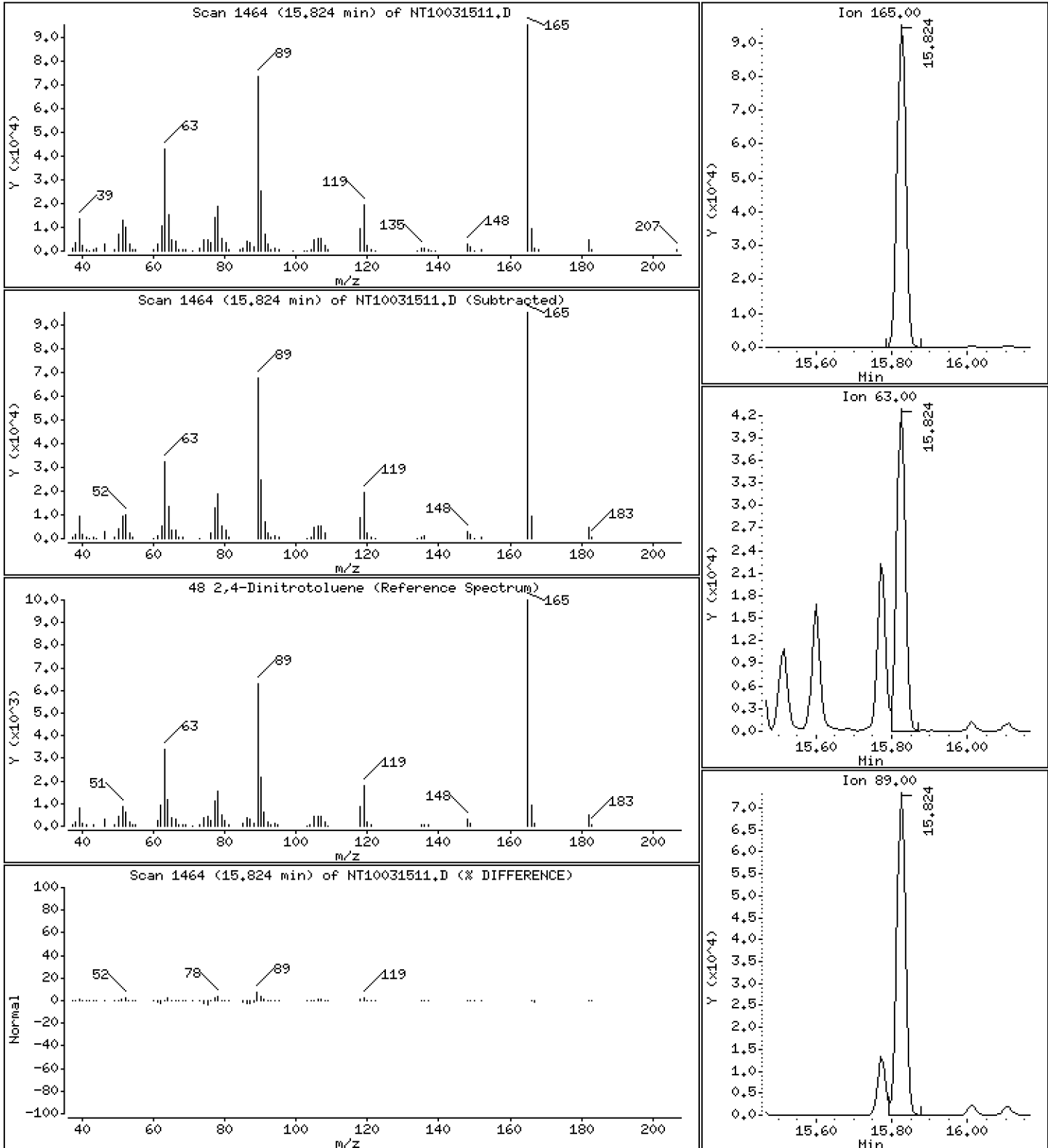
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 4,510 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

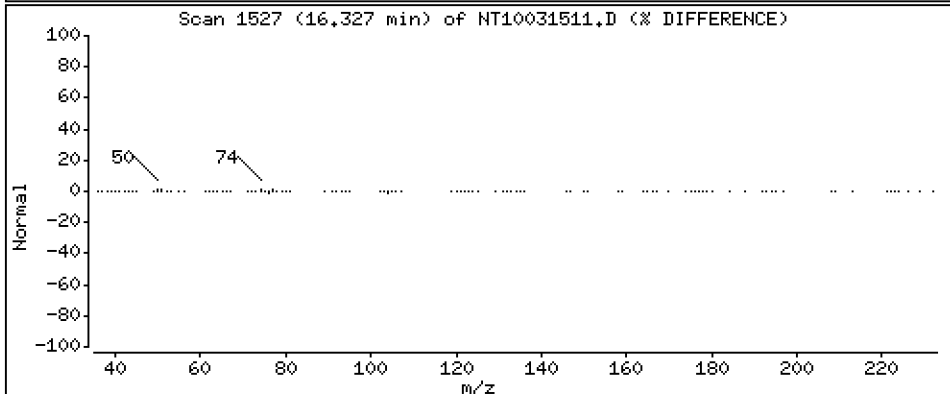
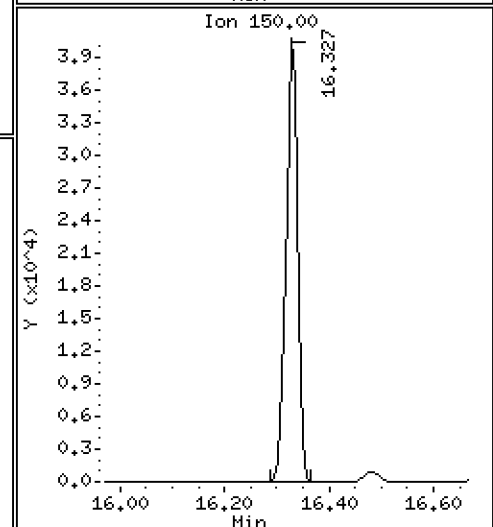
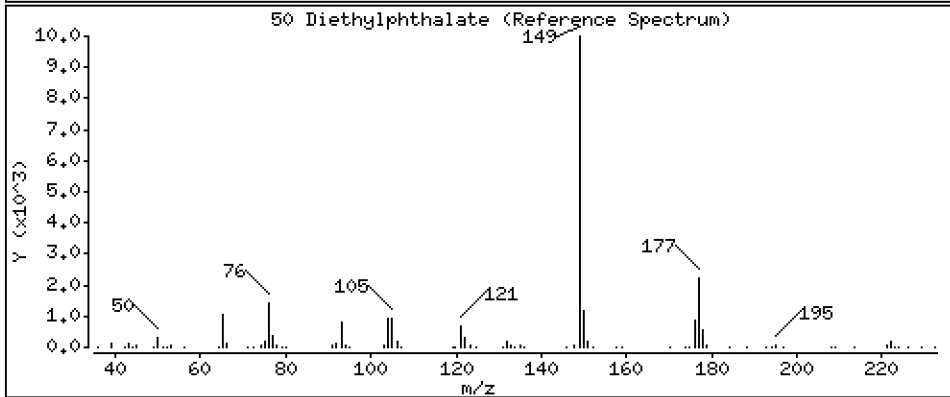
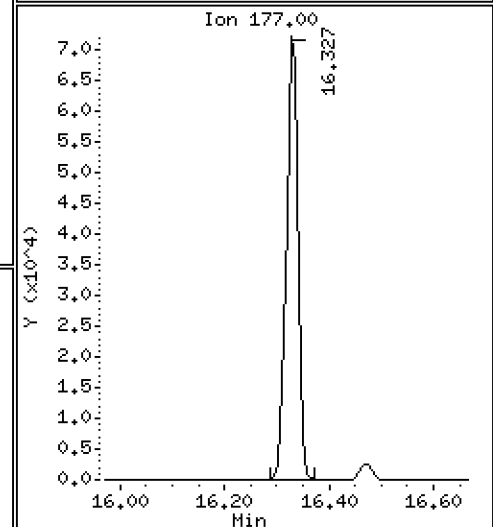
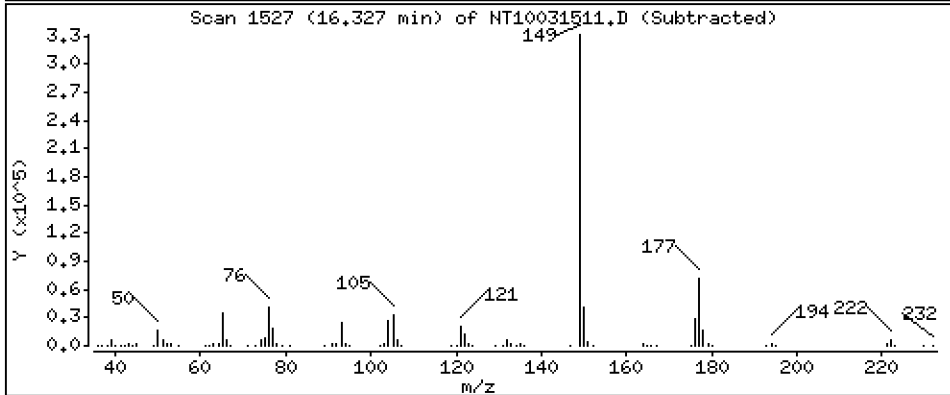
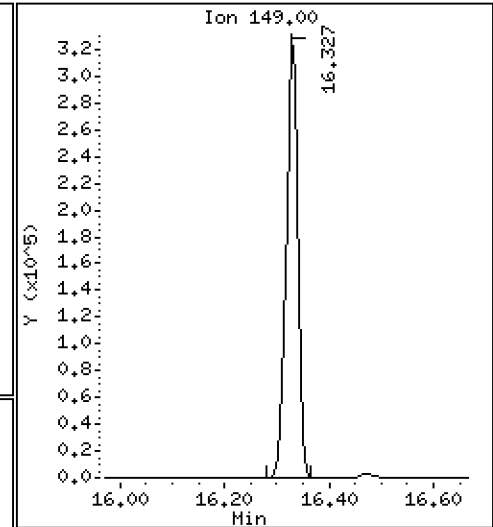
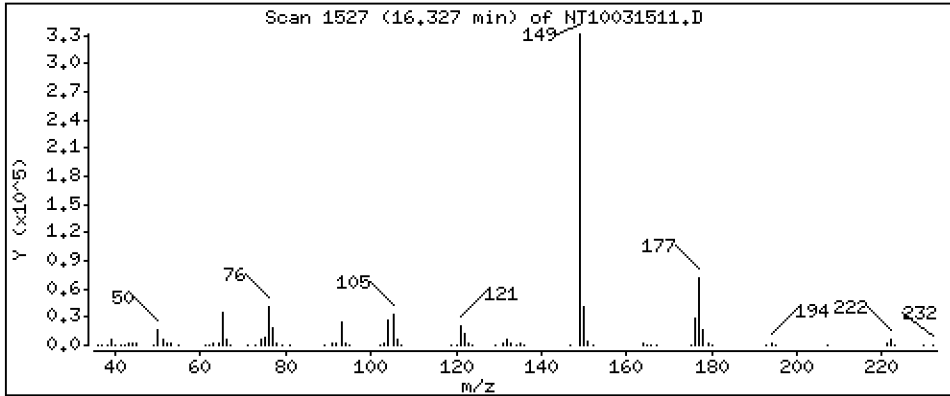
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,209 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

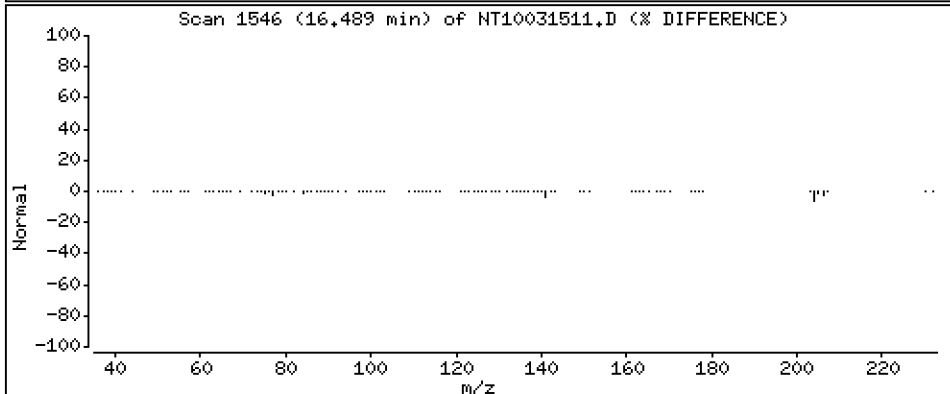
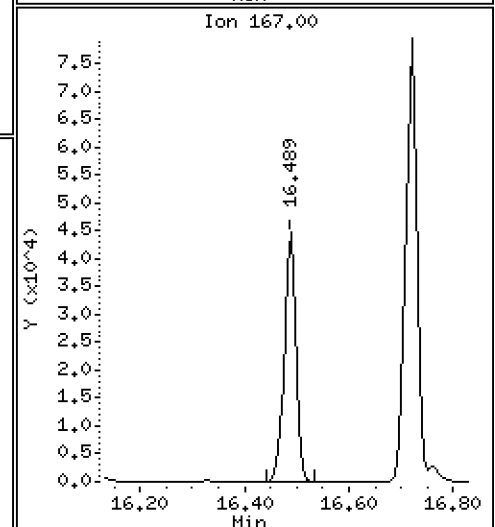
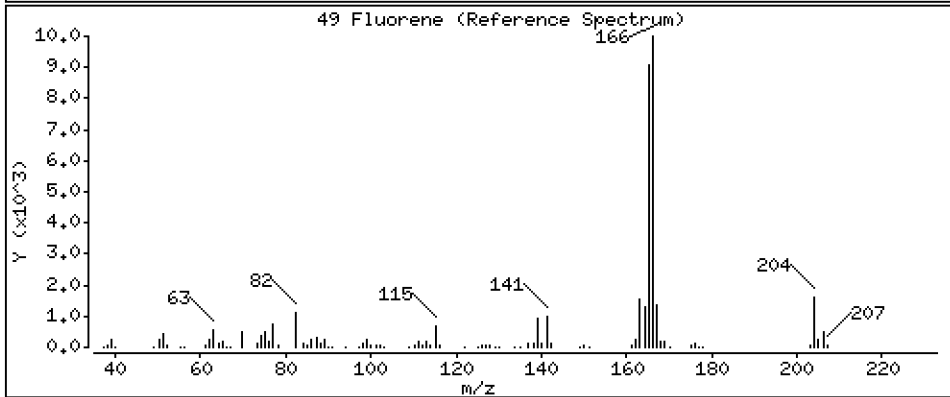
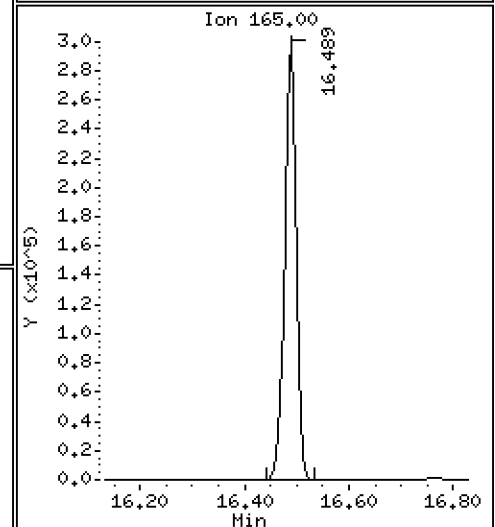
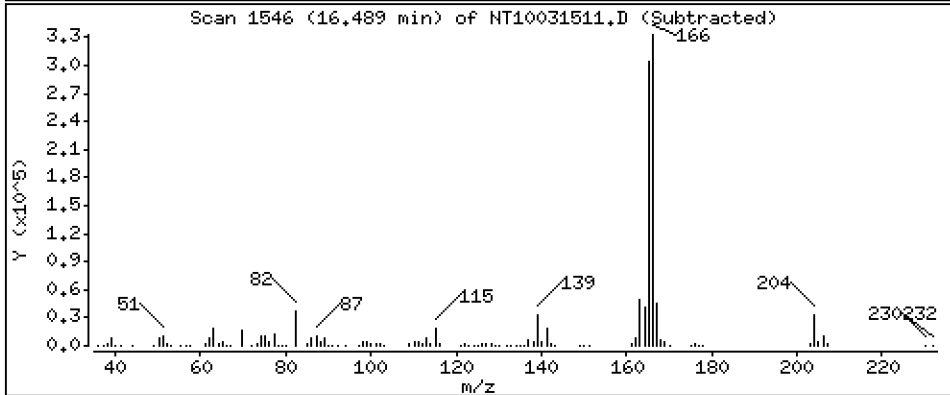
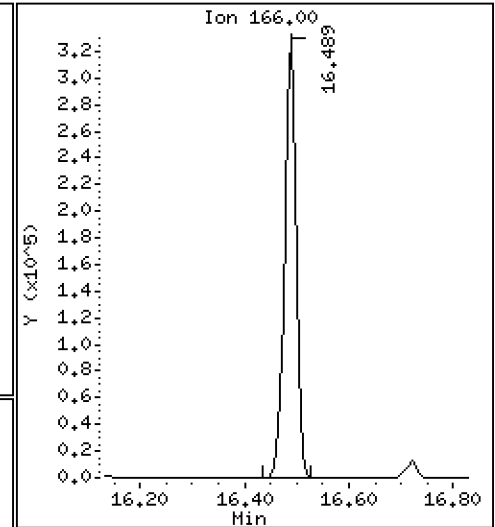
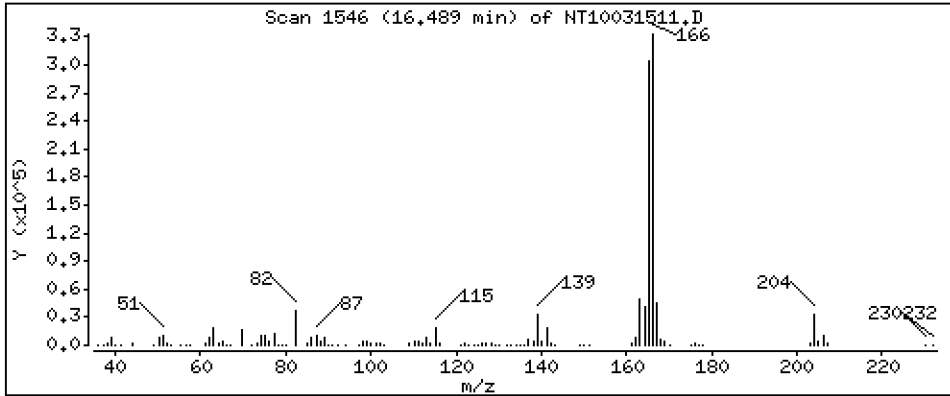
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,708 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

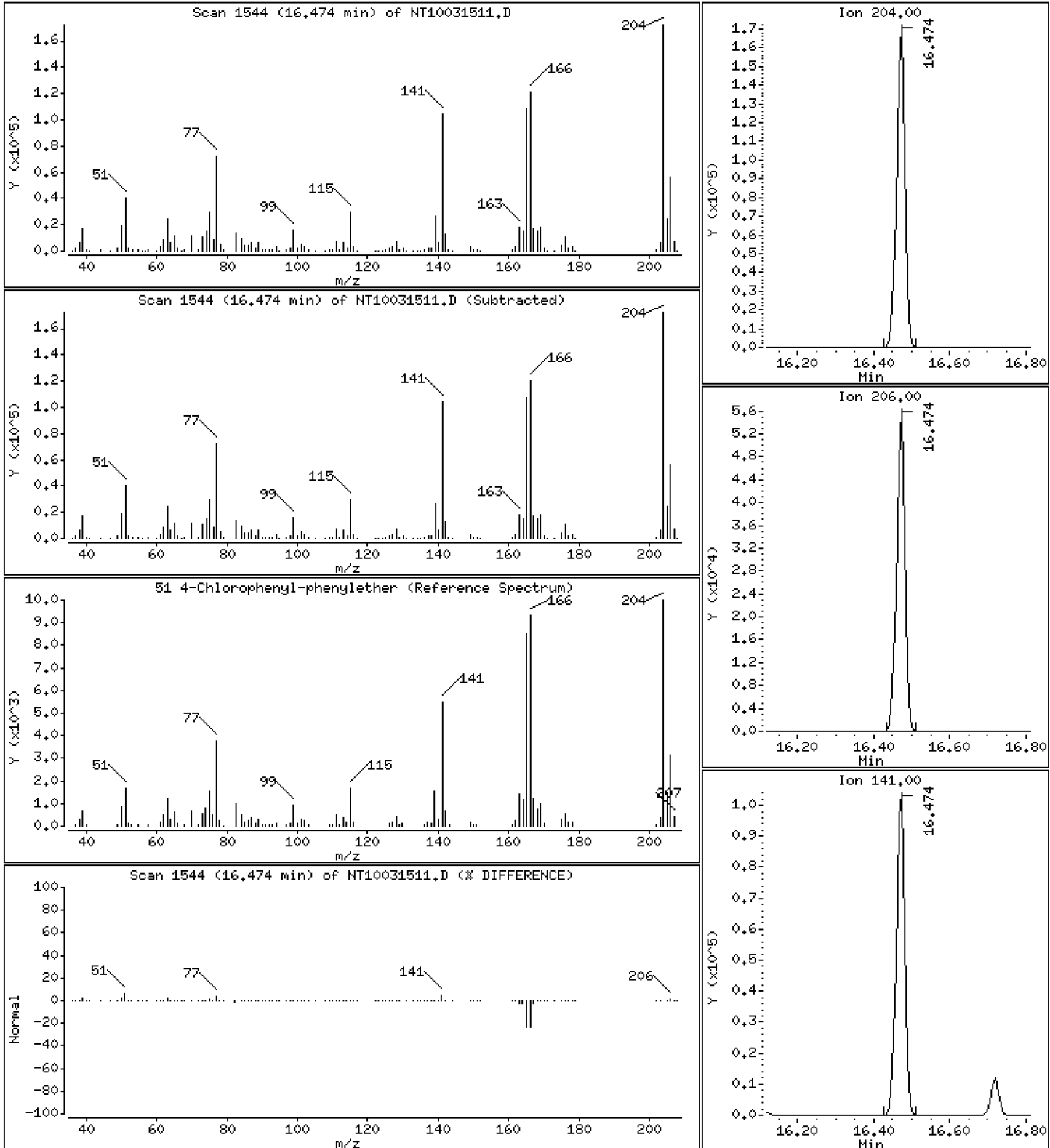
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,993 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

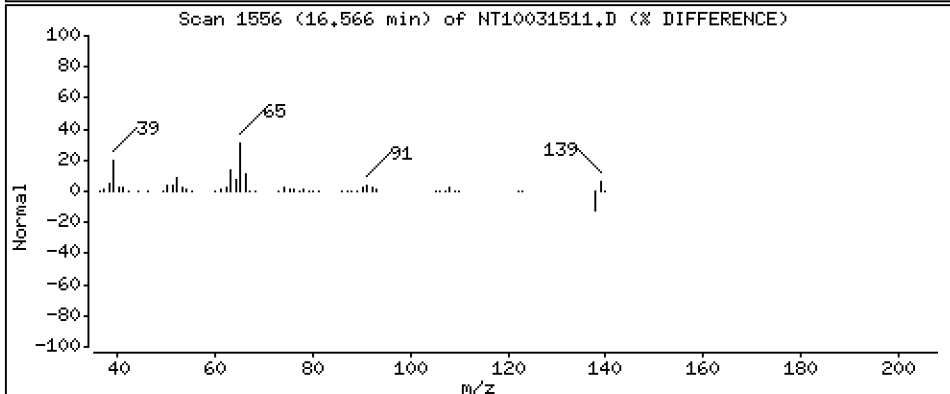
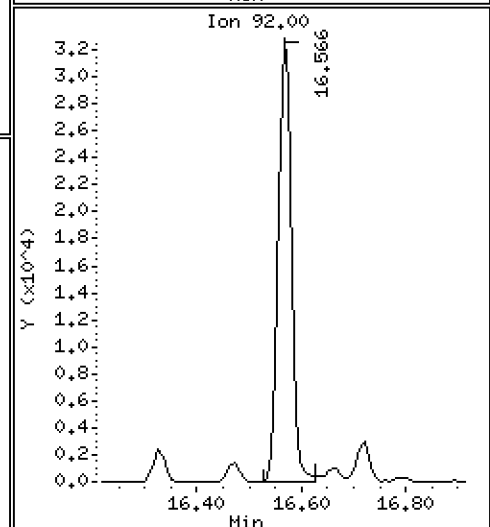
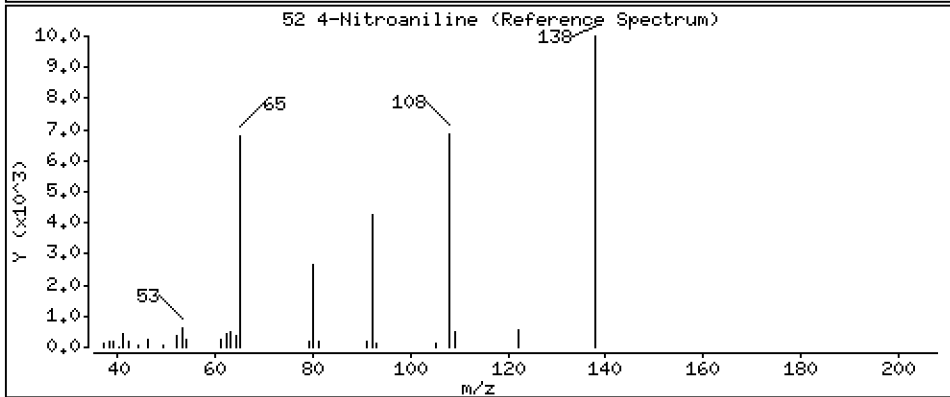
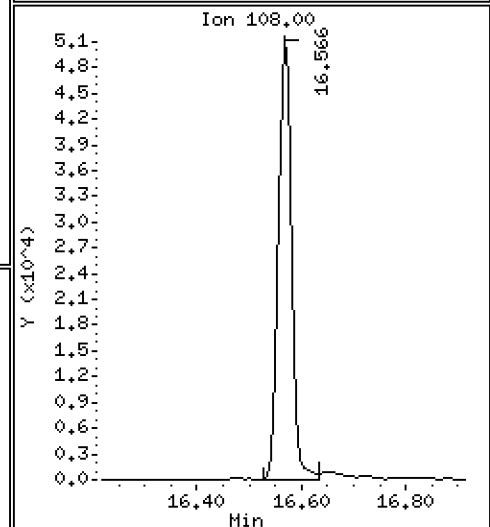
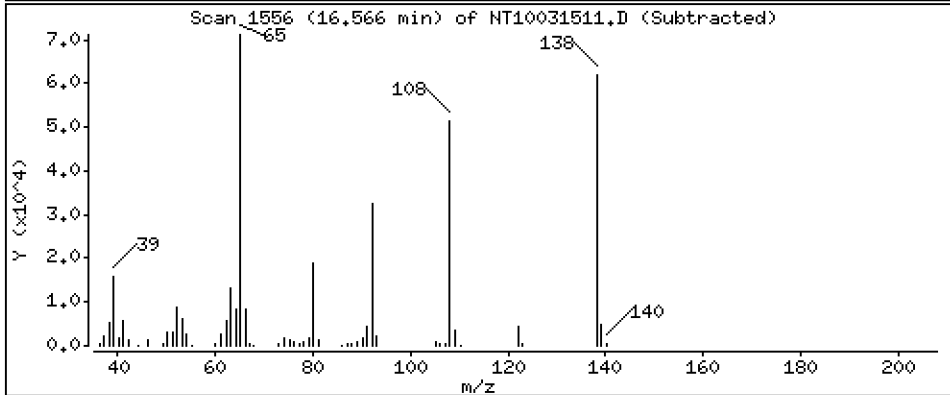
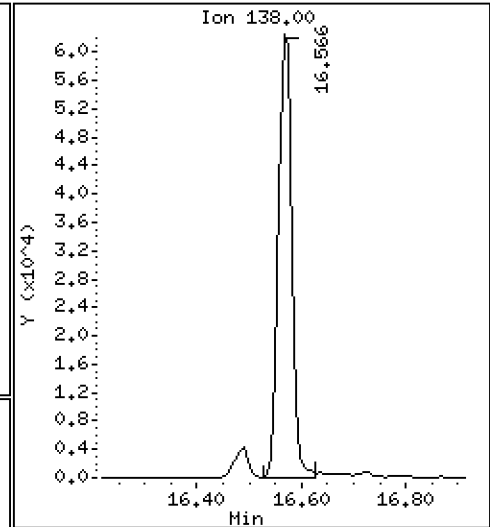
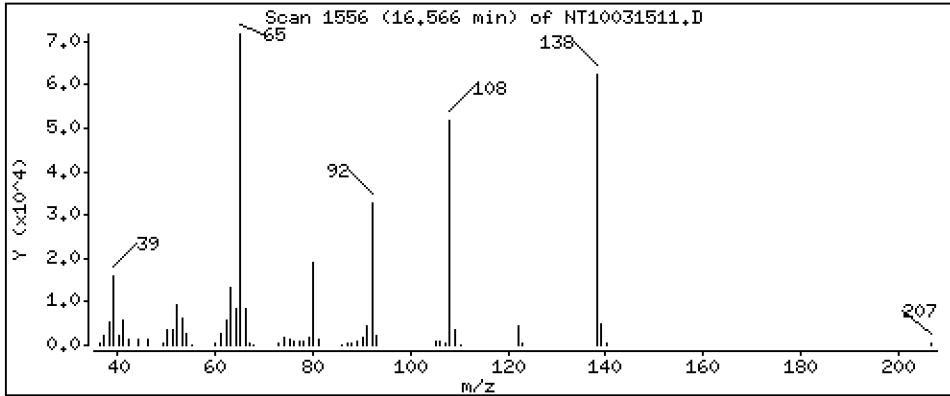
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 4,925 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

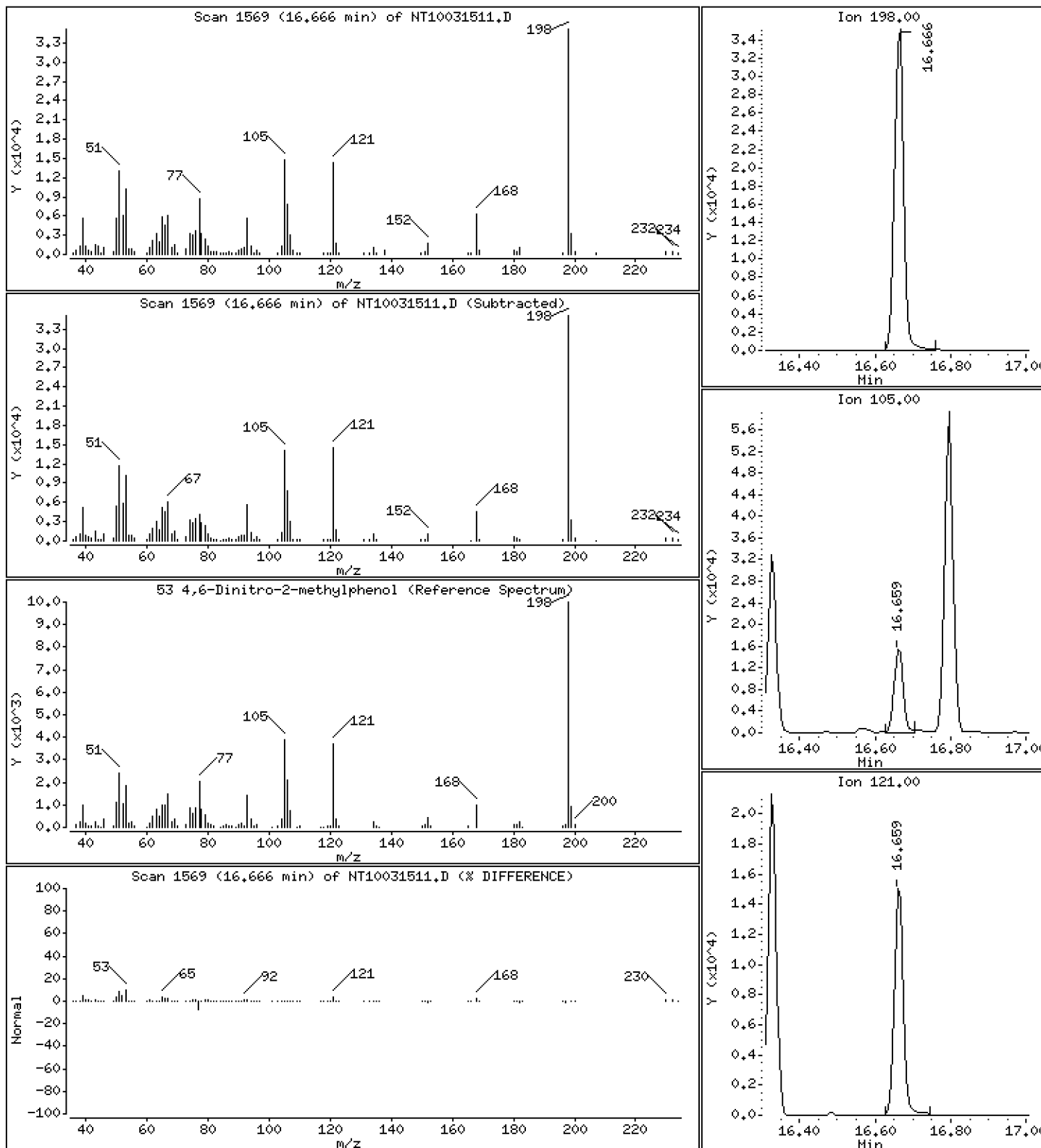
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 3.515 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

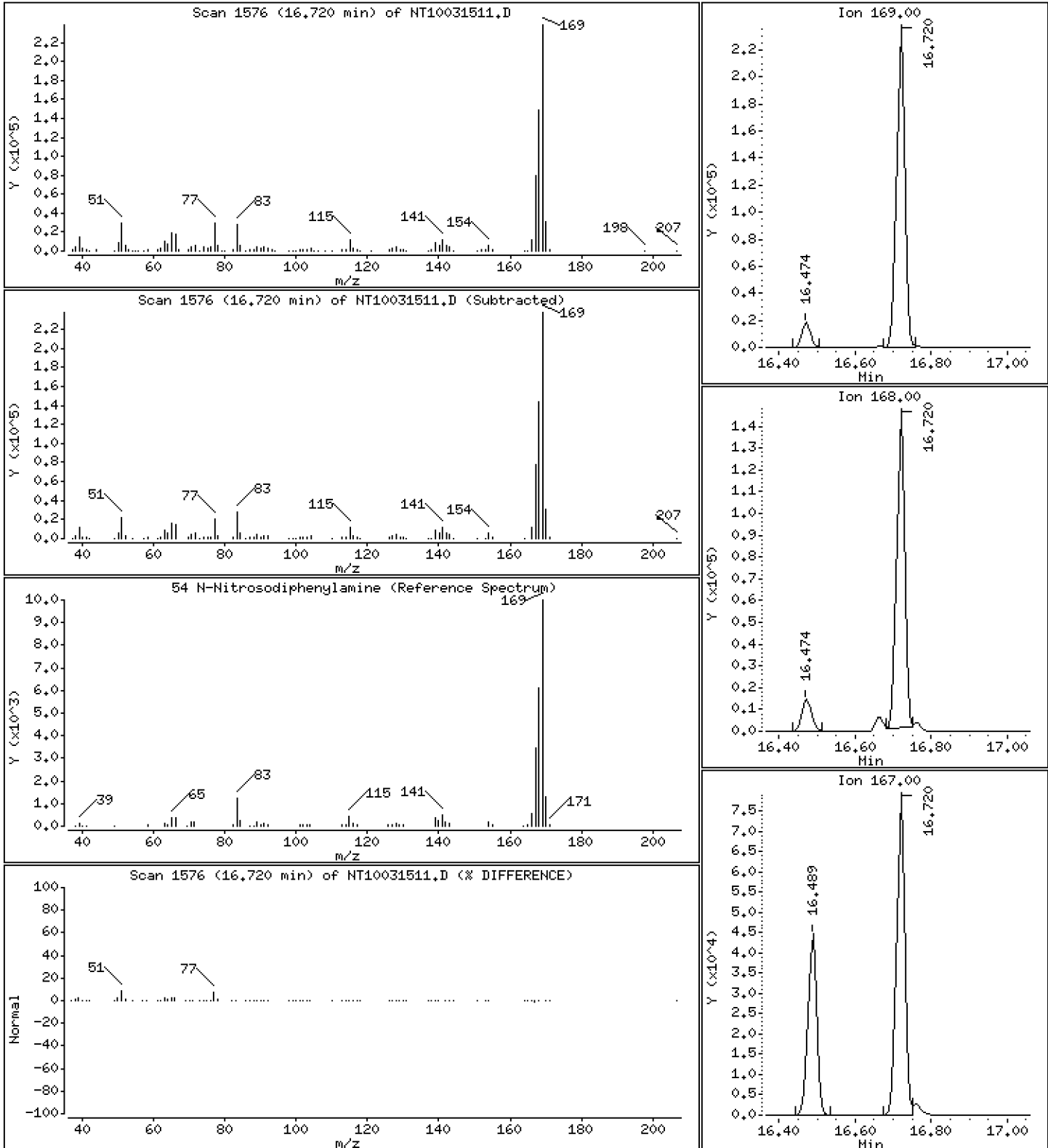
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,802 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

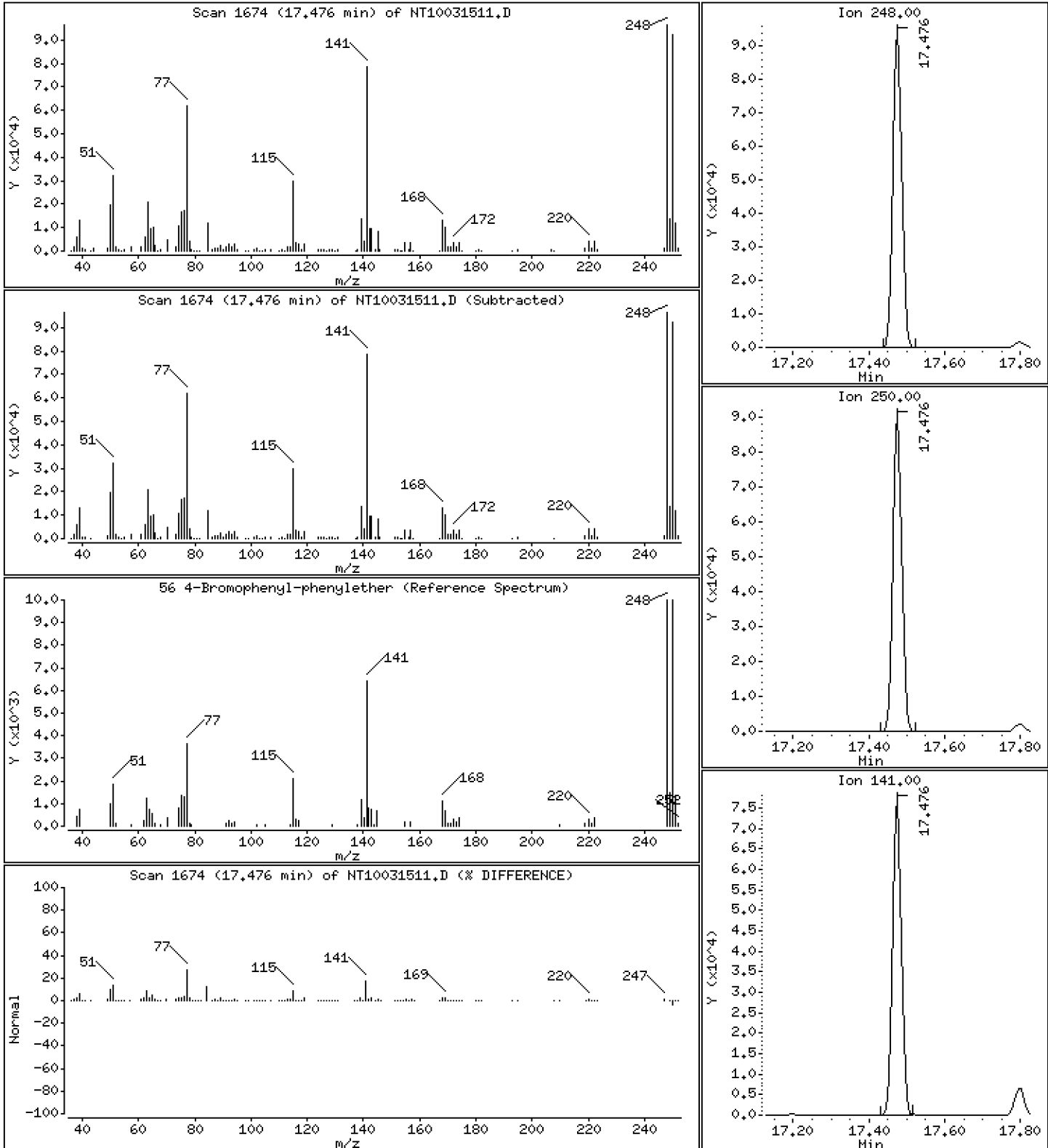
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,060 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

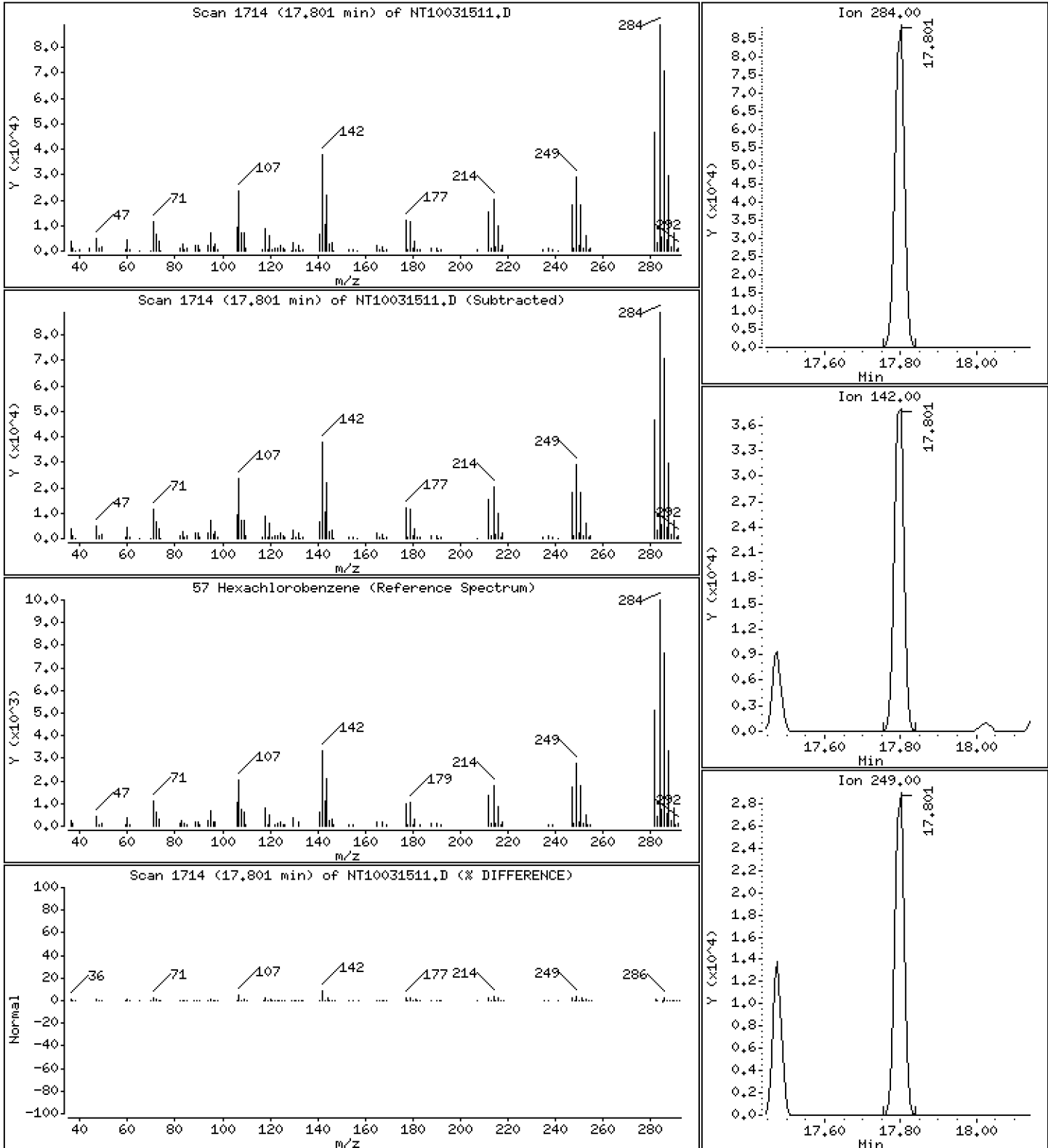
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,596 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

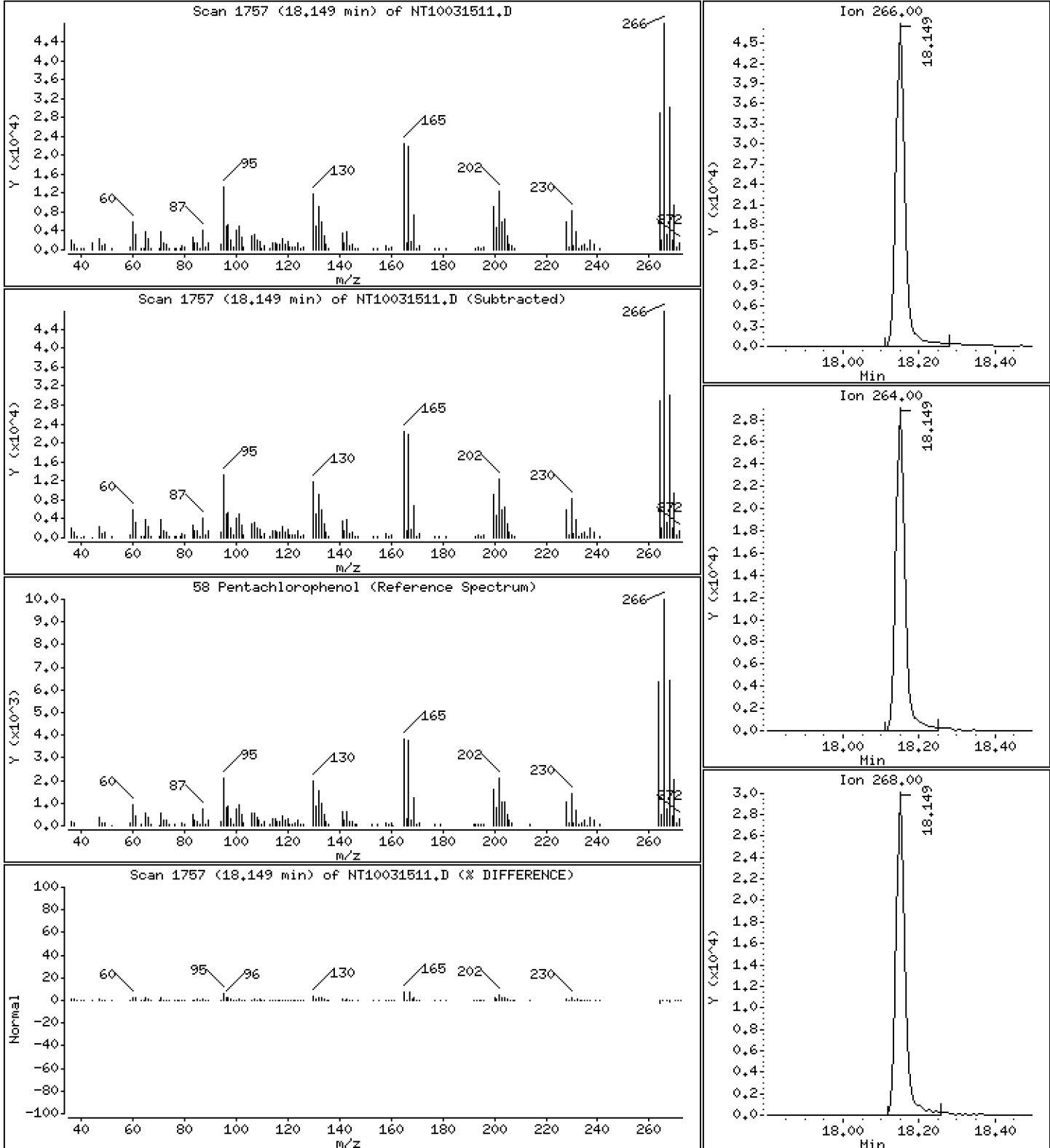
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 4,057 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

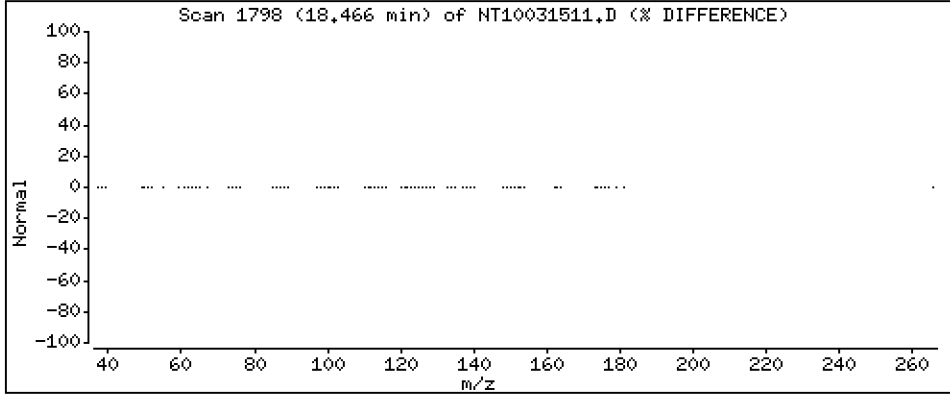
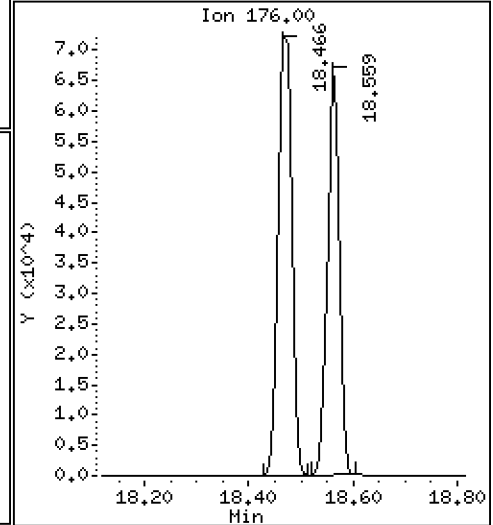
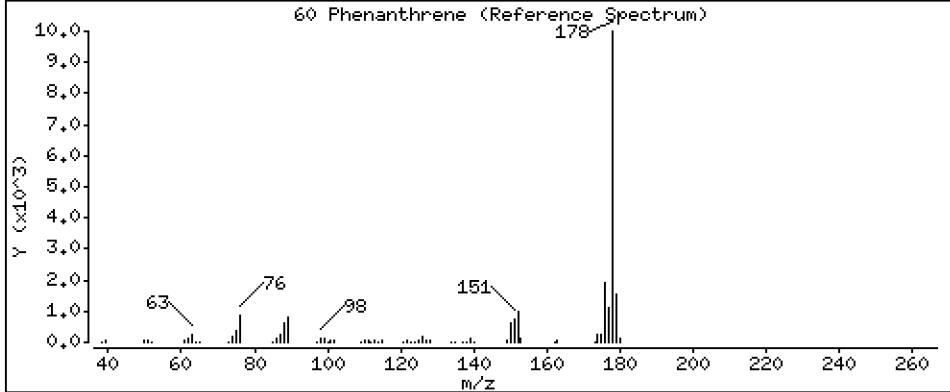
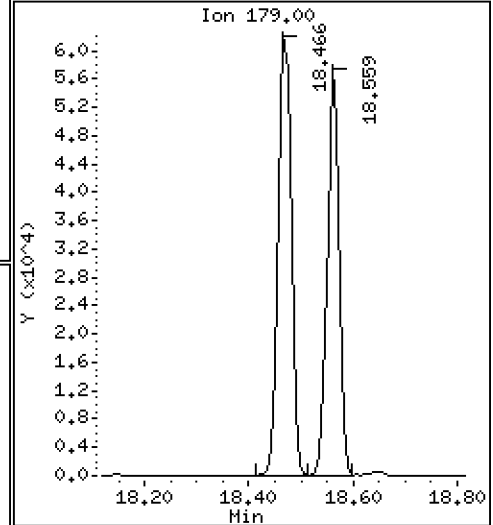
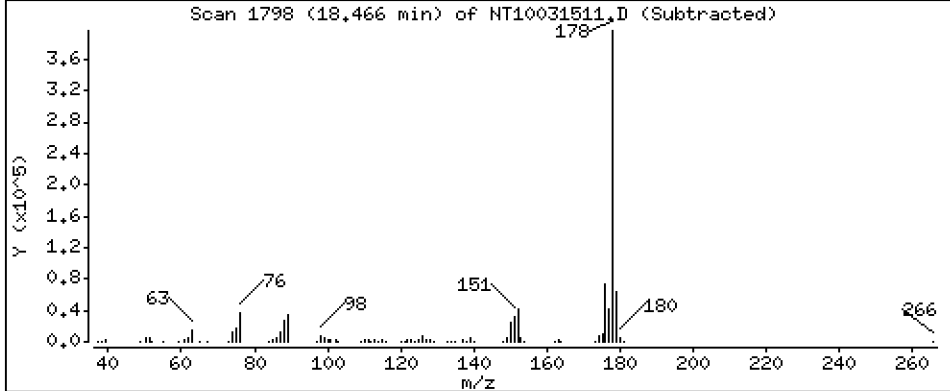
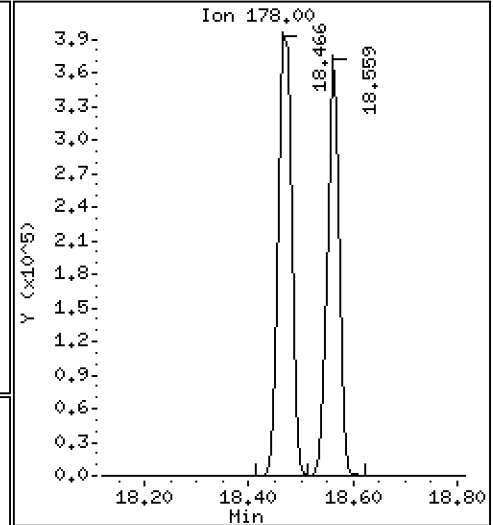
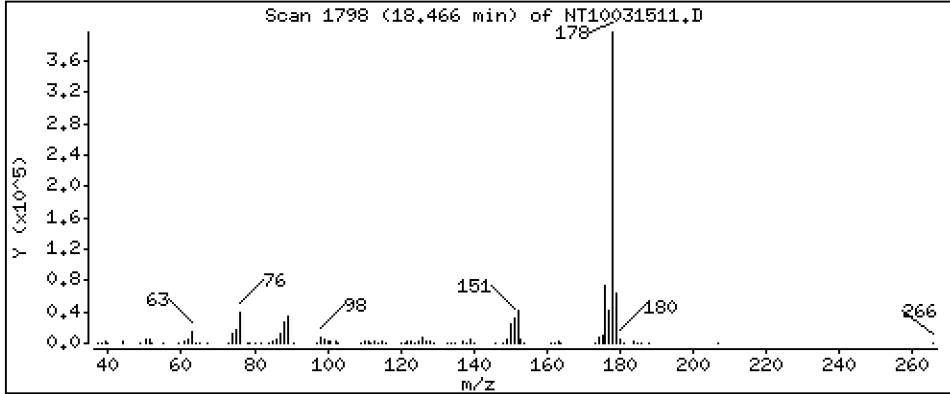
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,602 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

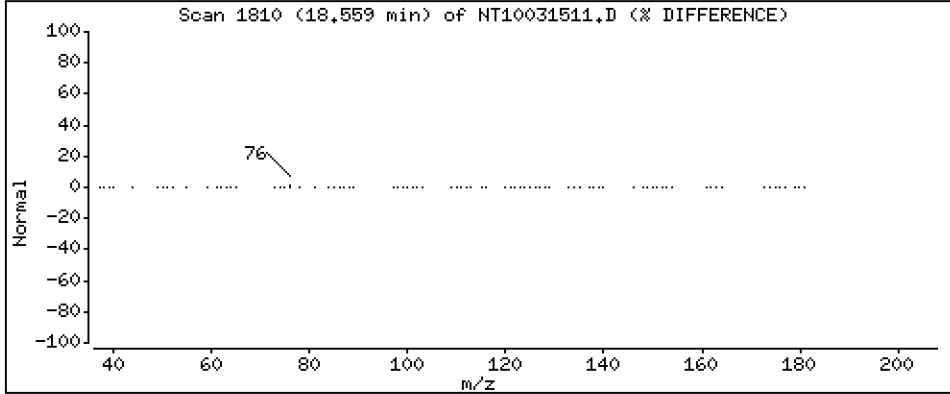
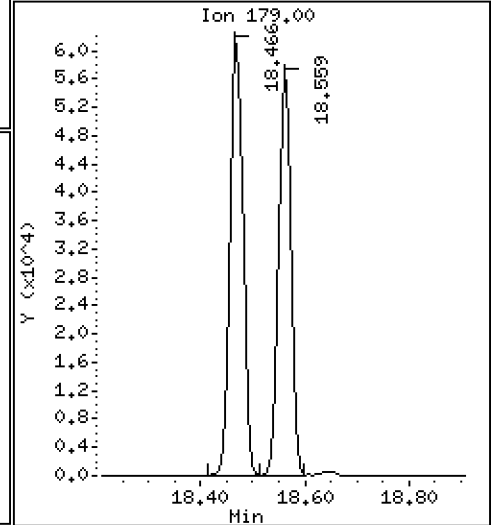
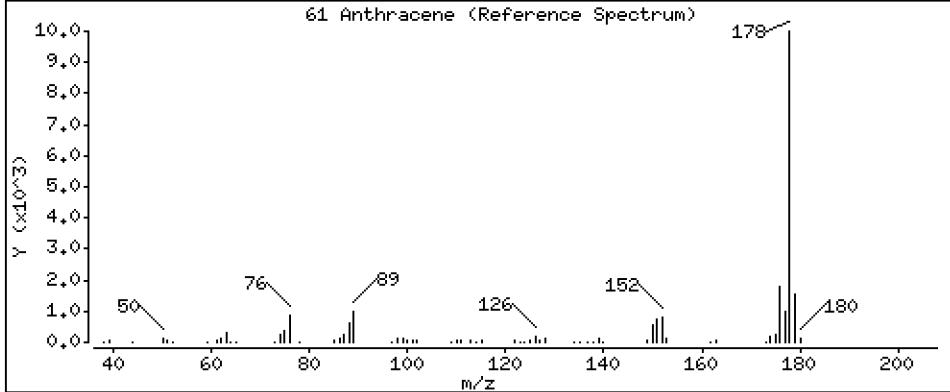
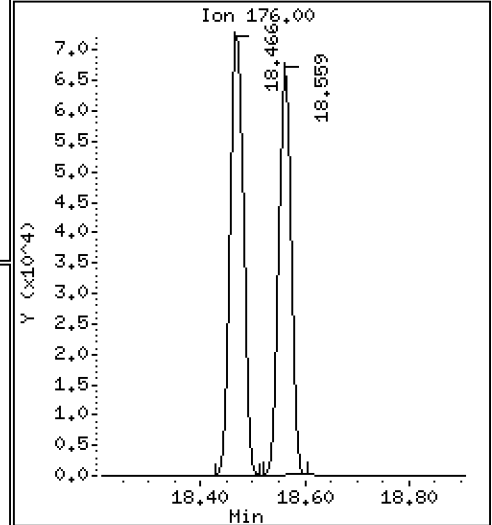
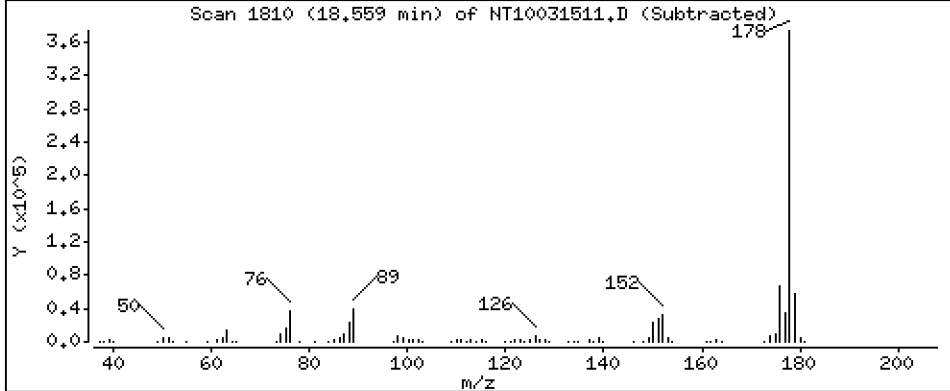
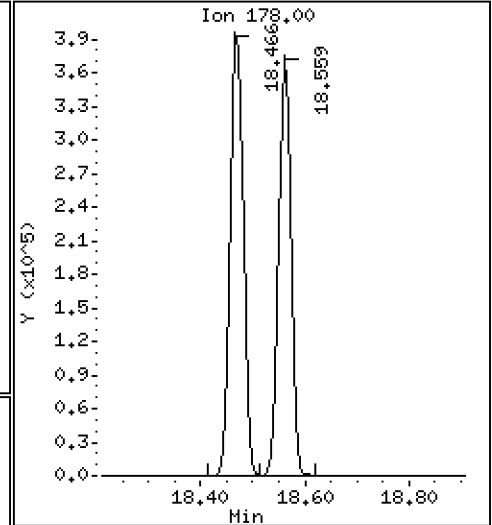
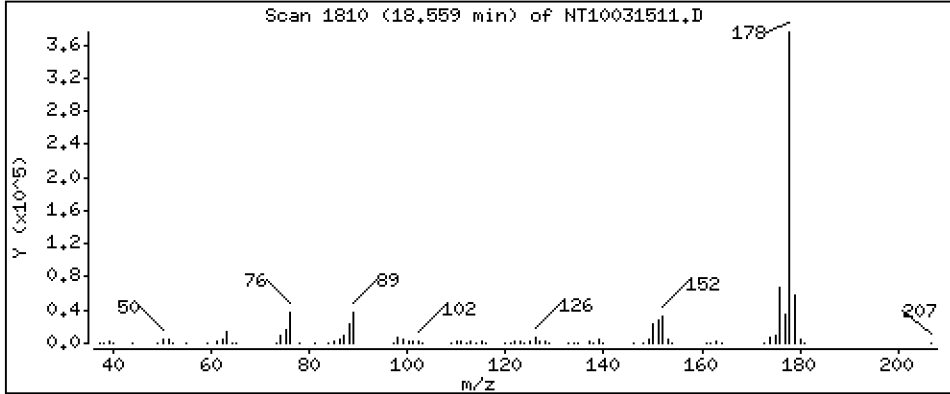
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,167 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

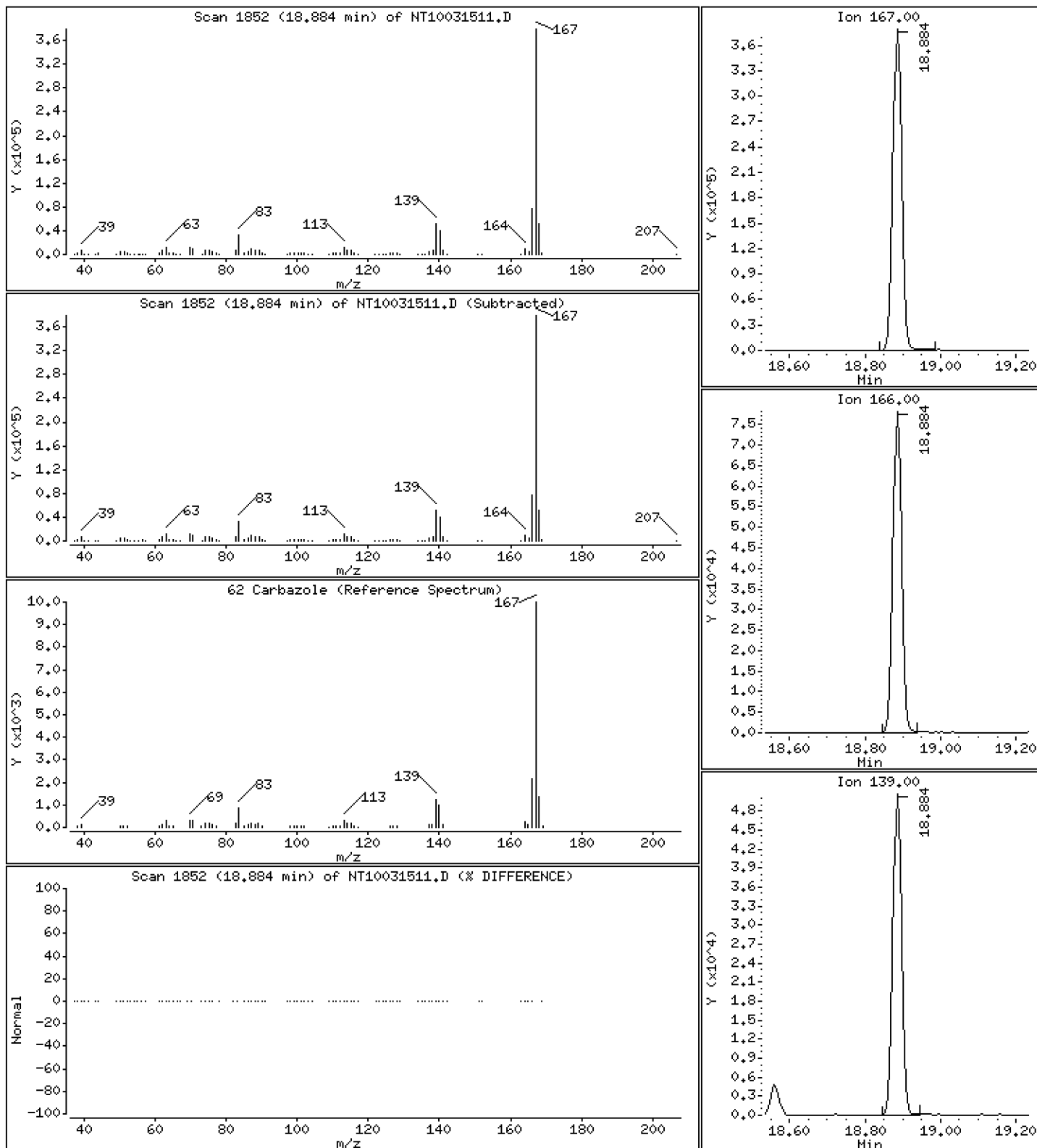
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,730 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

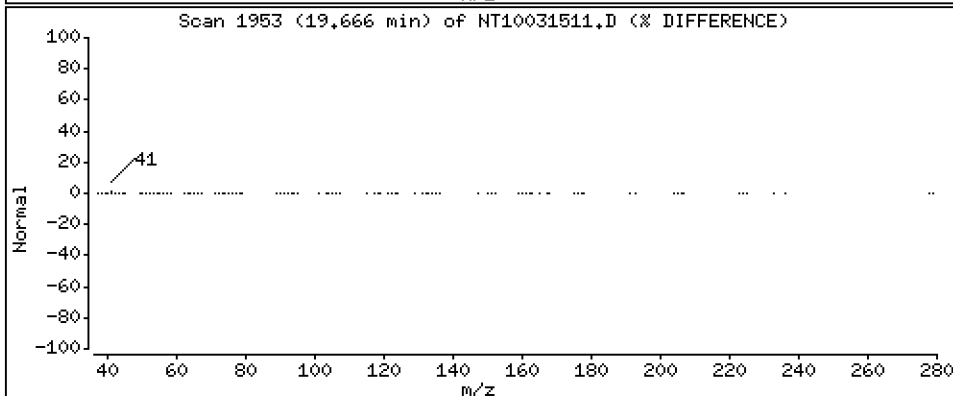
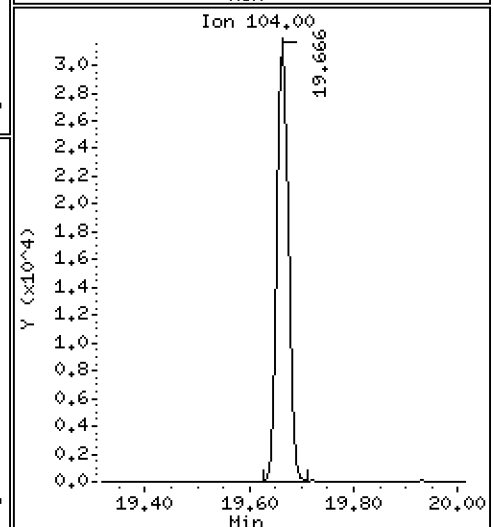
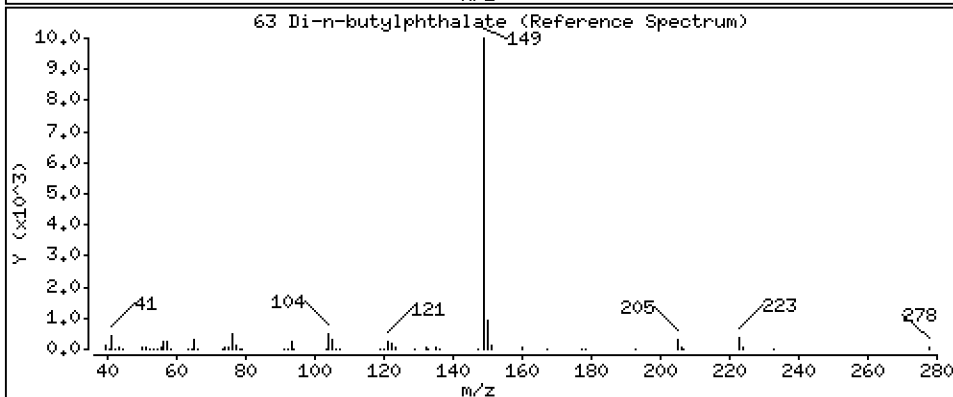
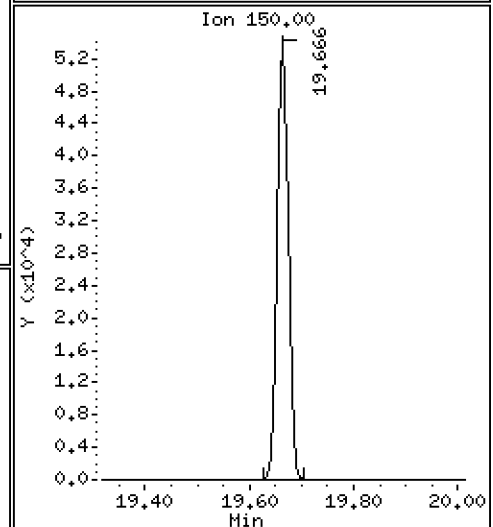
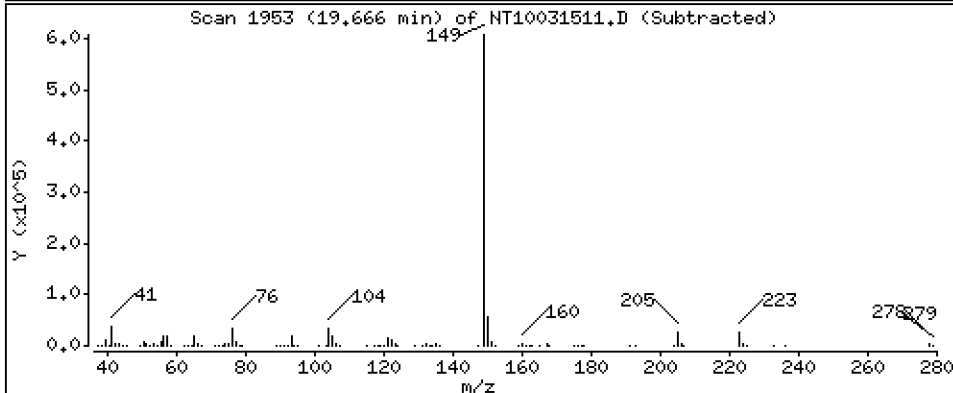
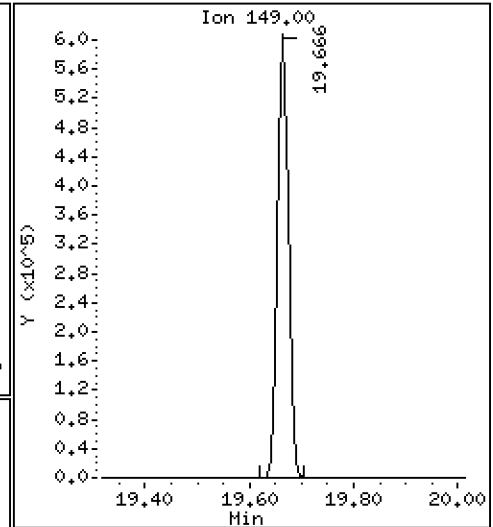
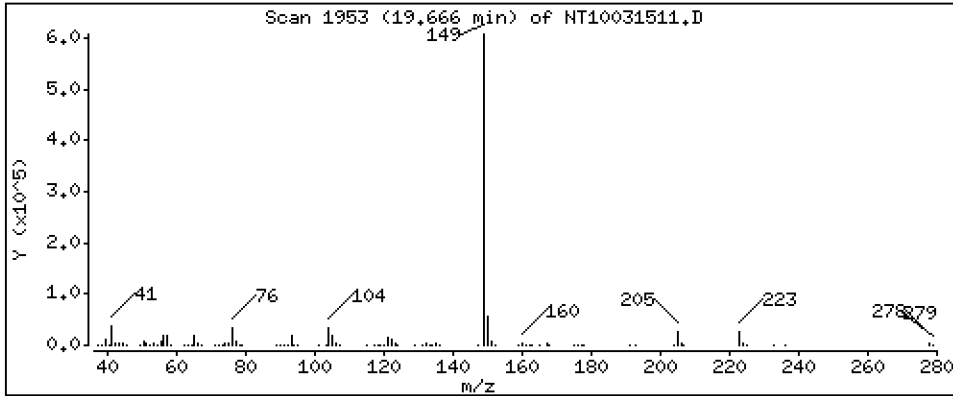
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,967 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

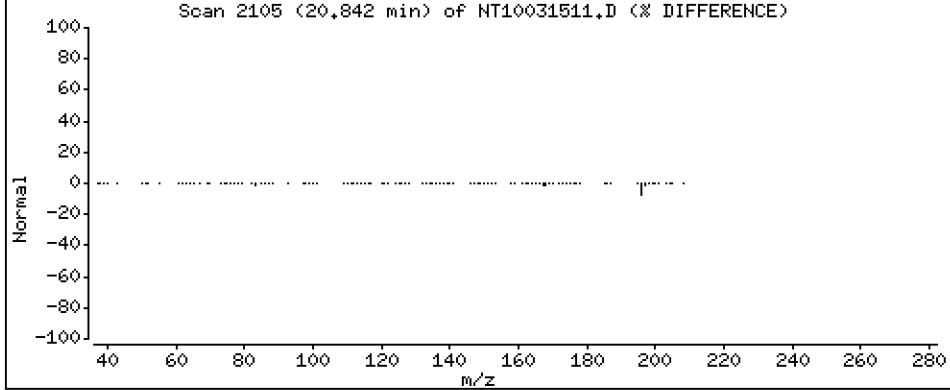
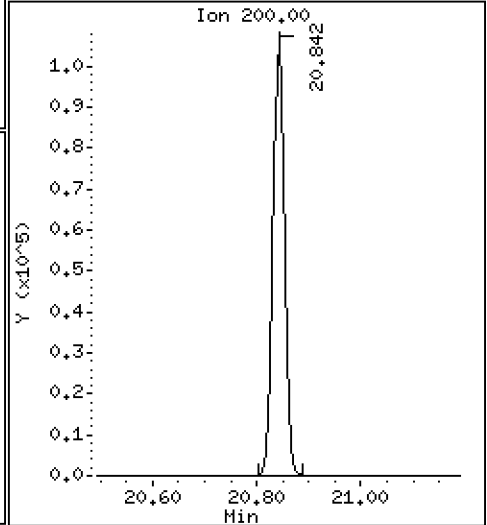
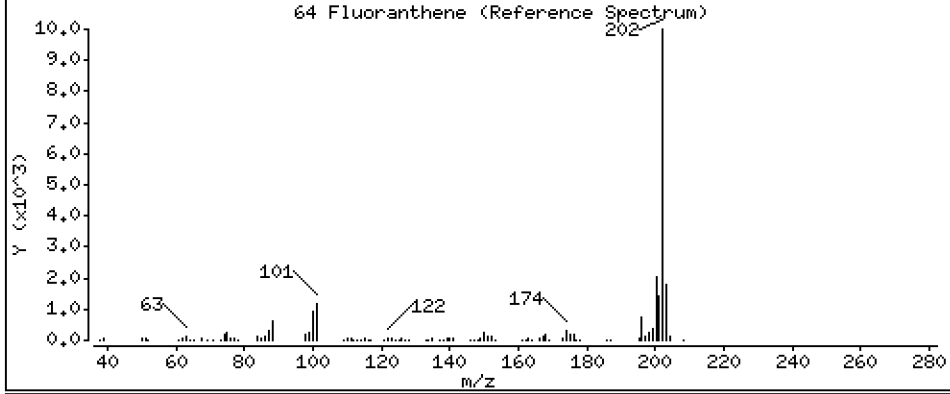
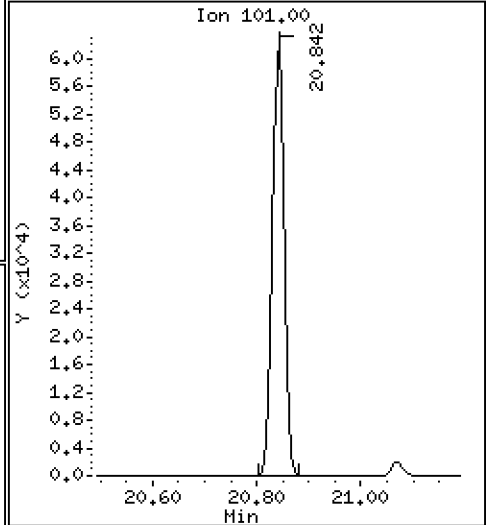
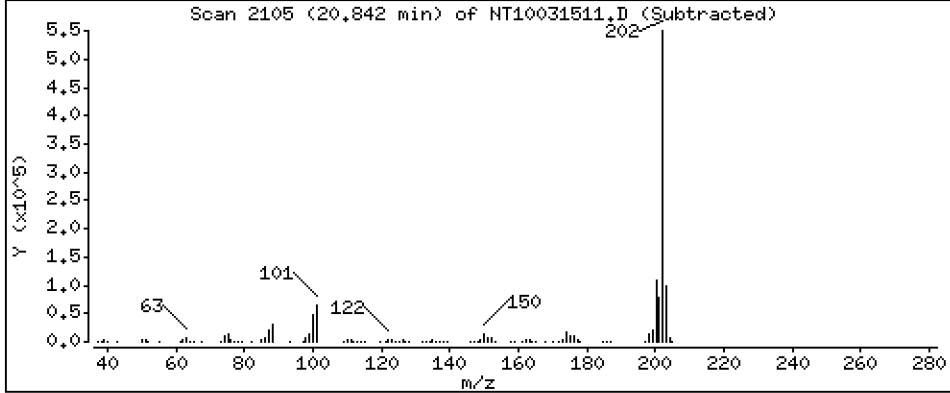
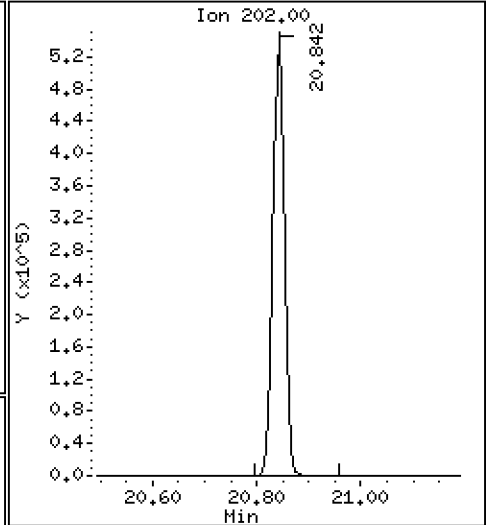
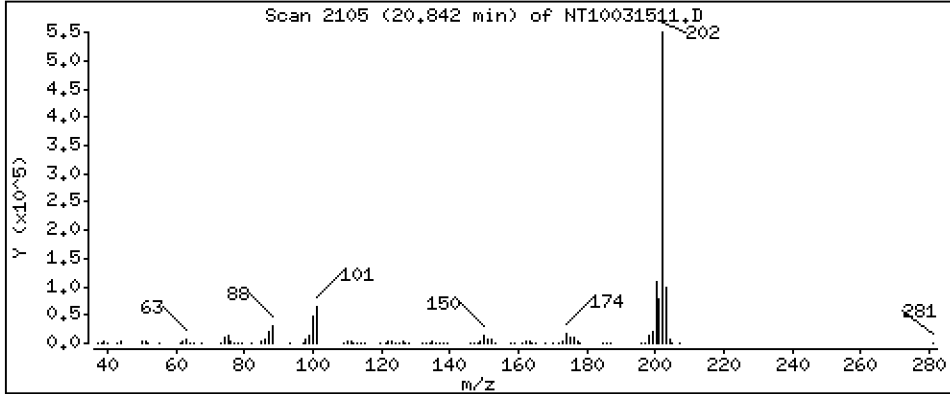
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,472 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

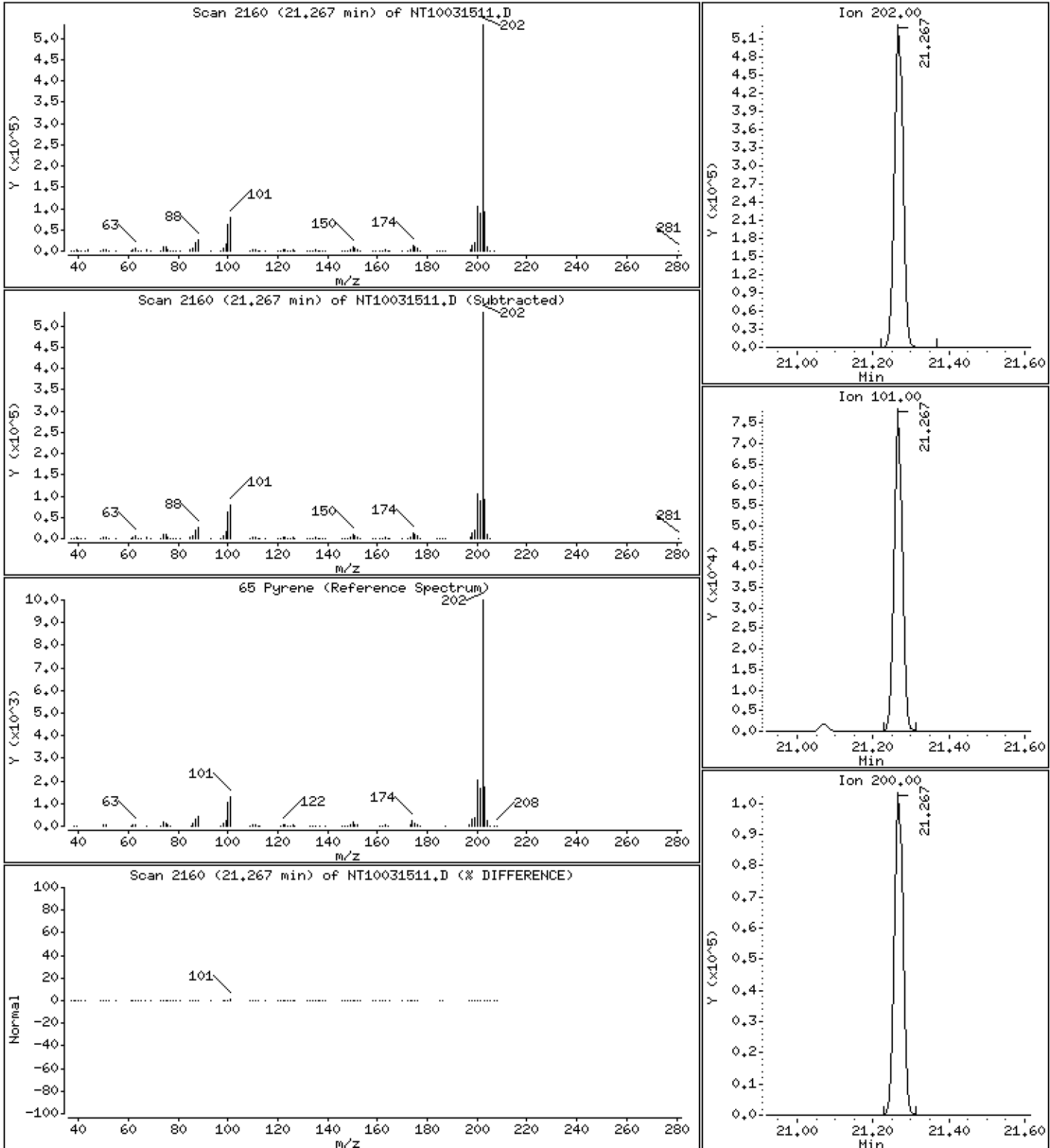
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,339 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

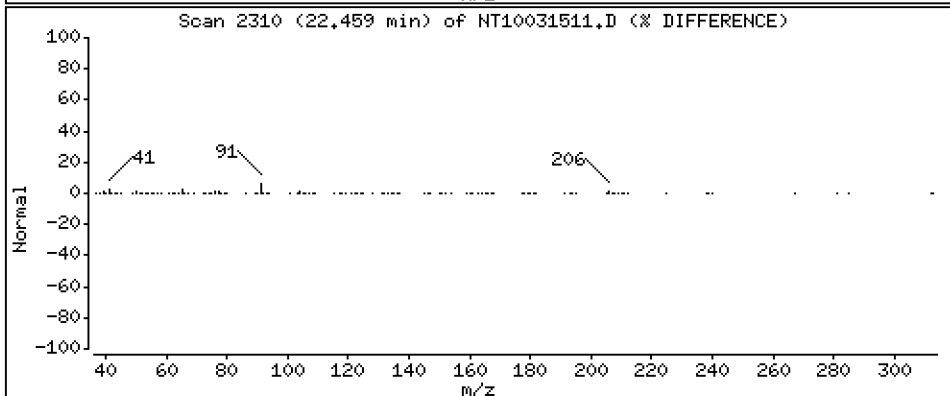
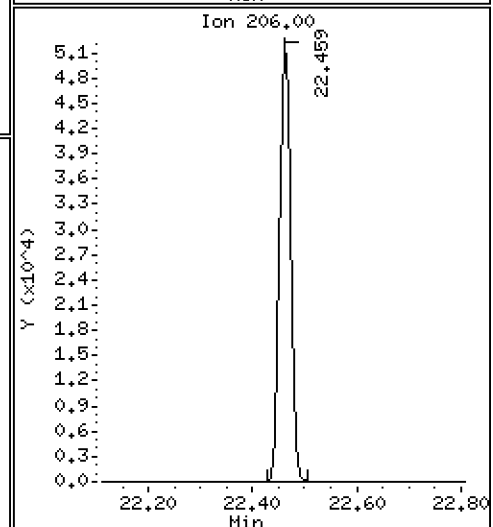
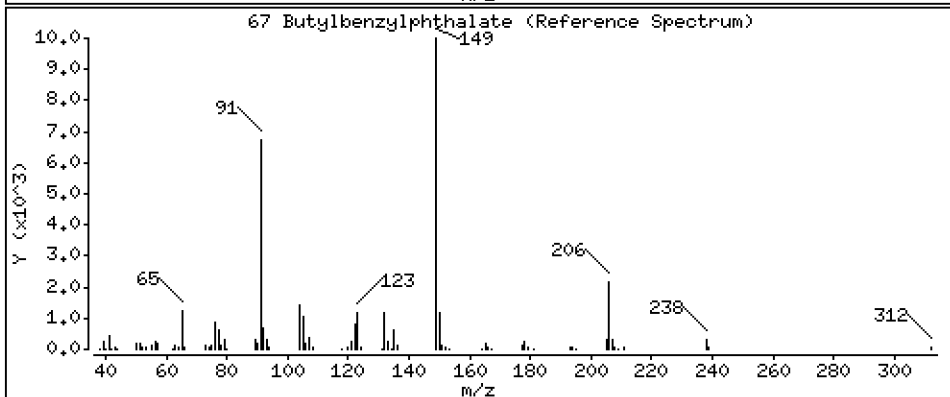
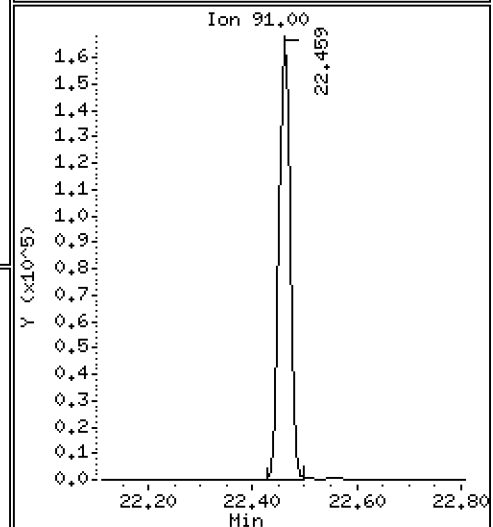
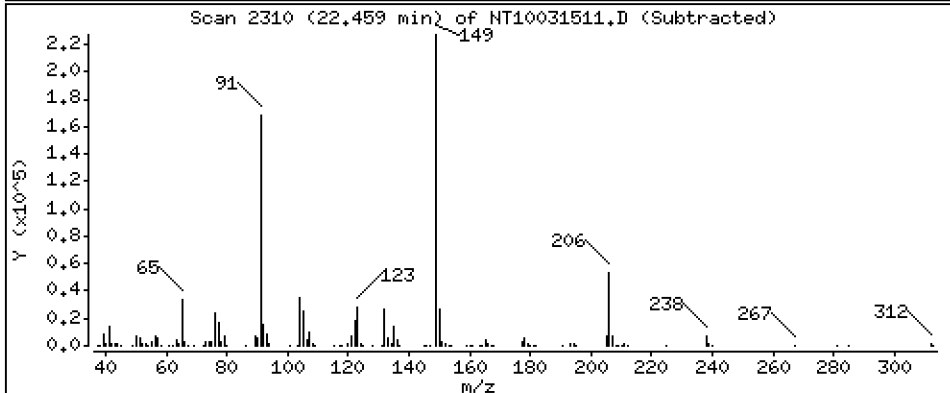
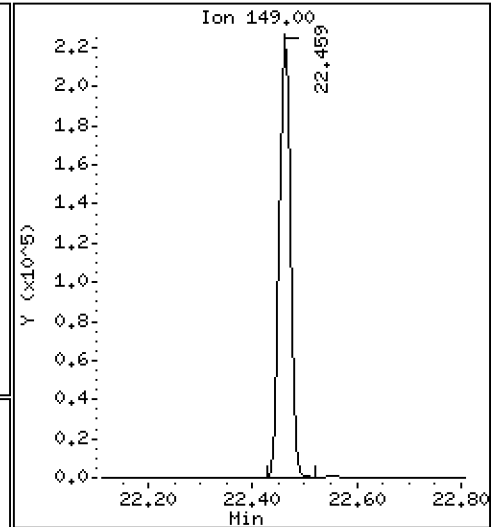
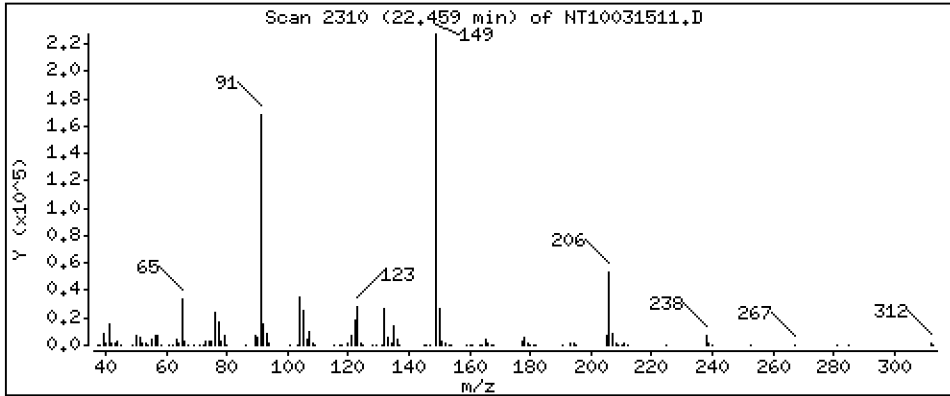
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,834 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

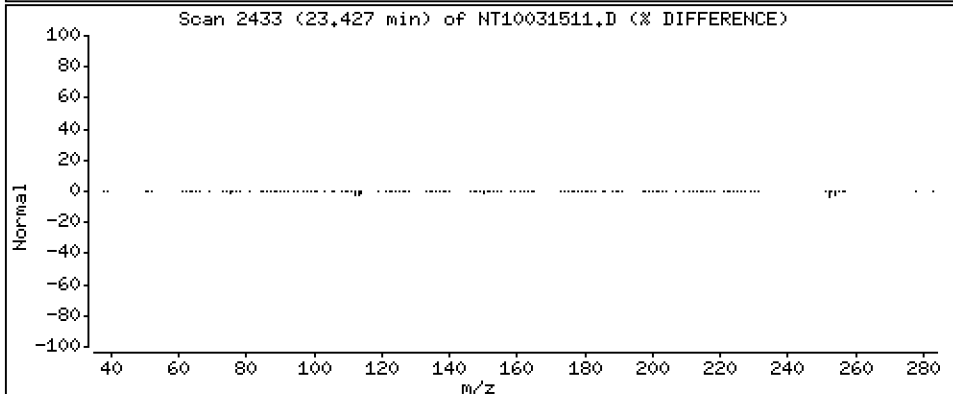
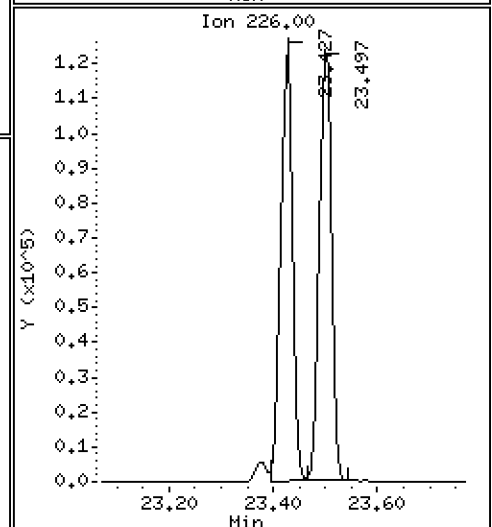
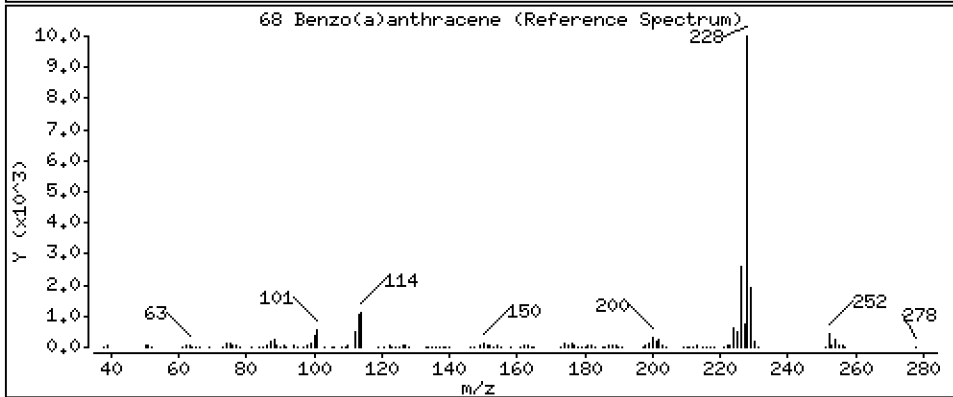
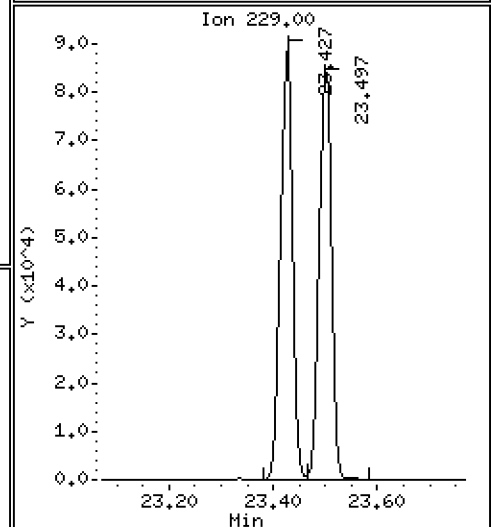
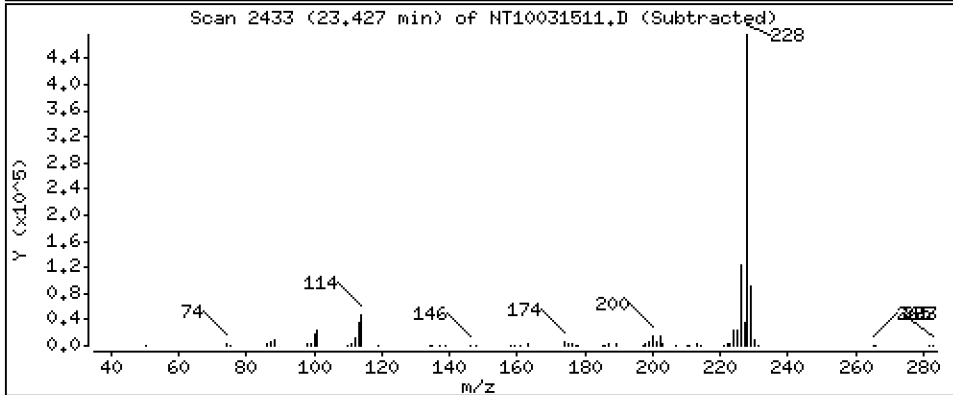
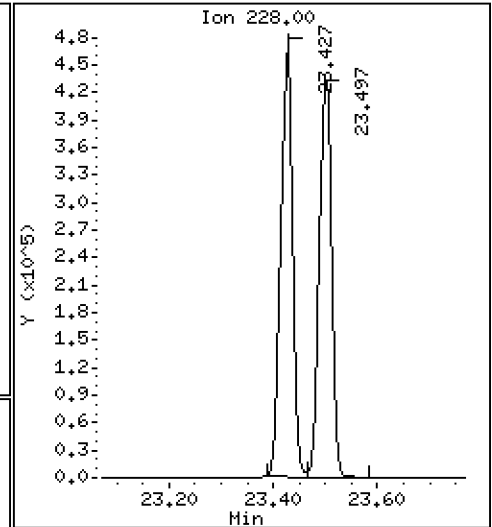
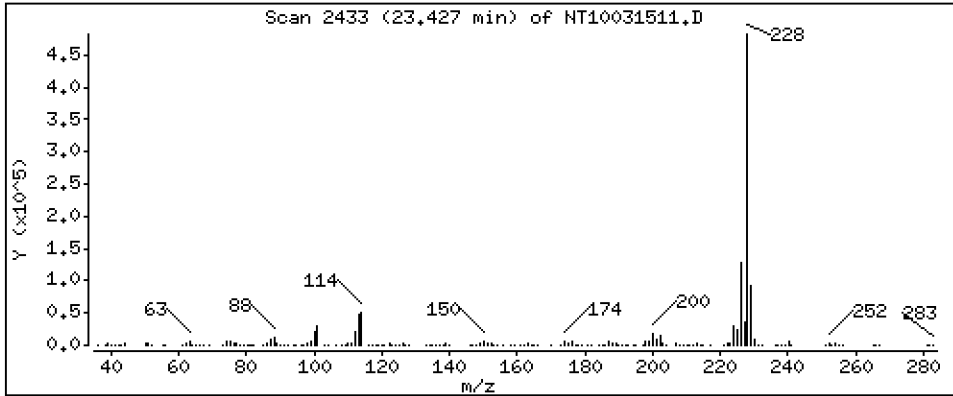
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,647 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

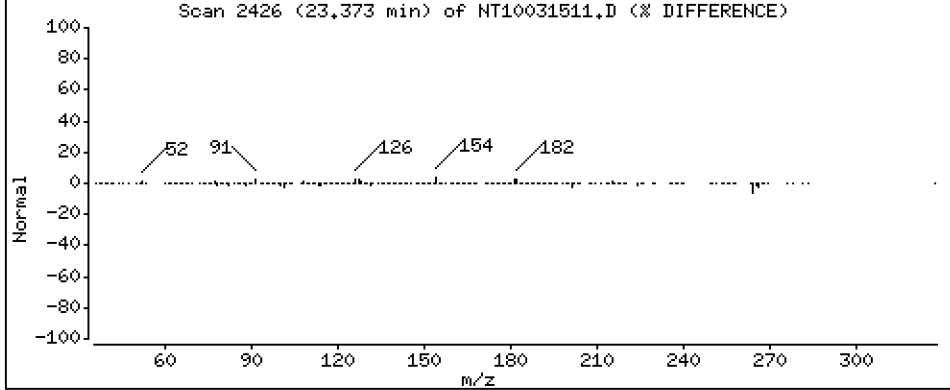
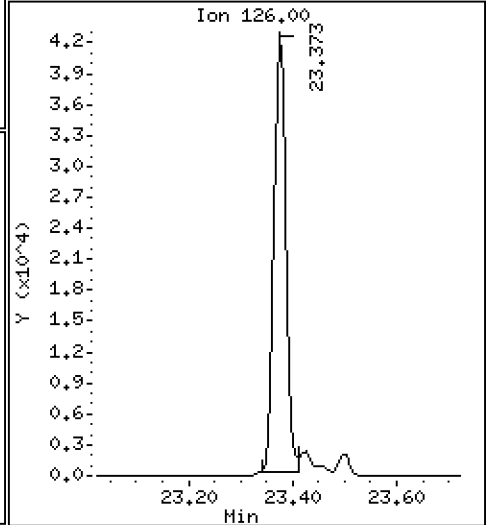
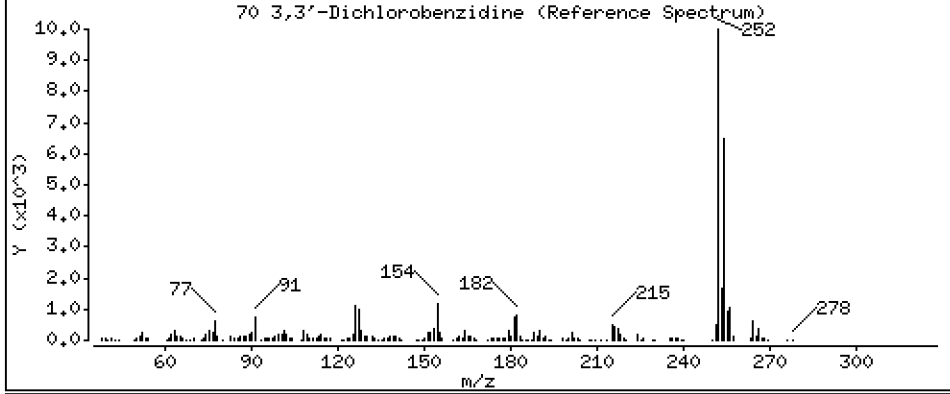
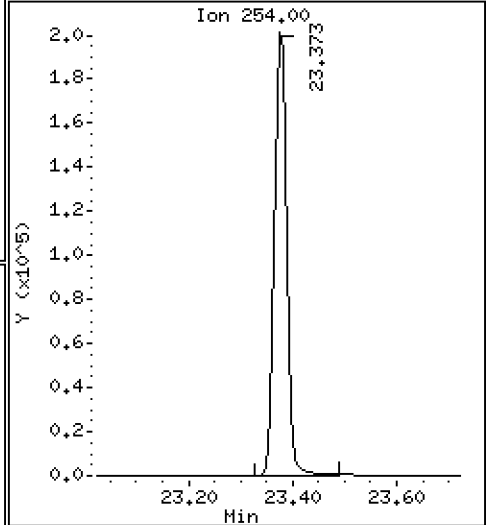
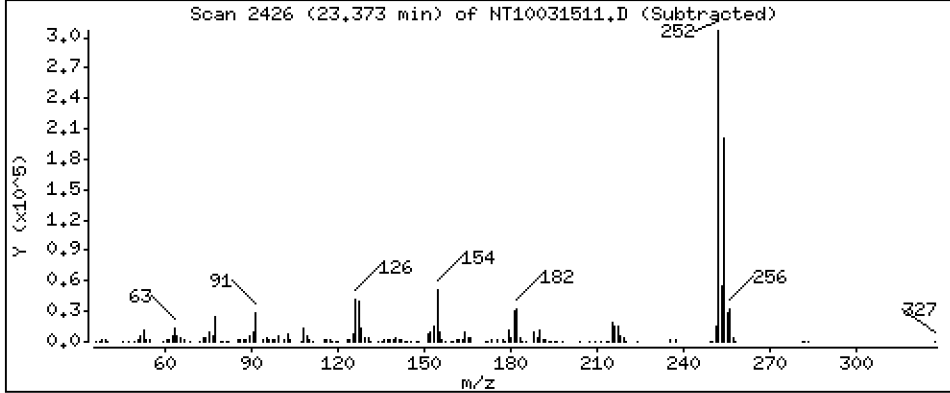
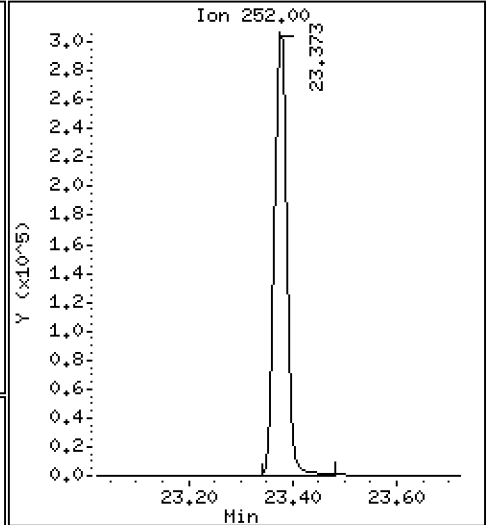
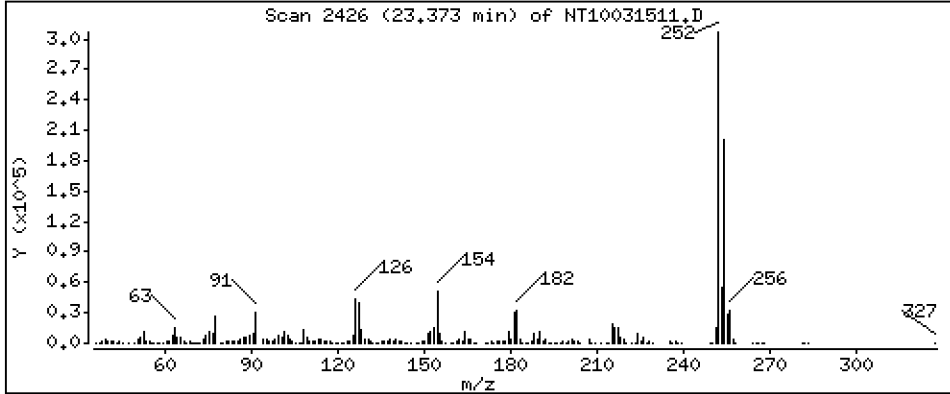
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 9,817 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

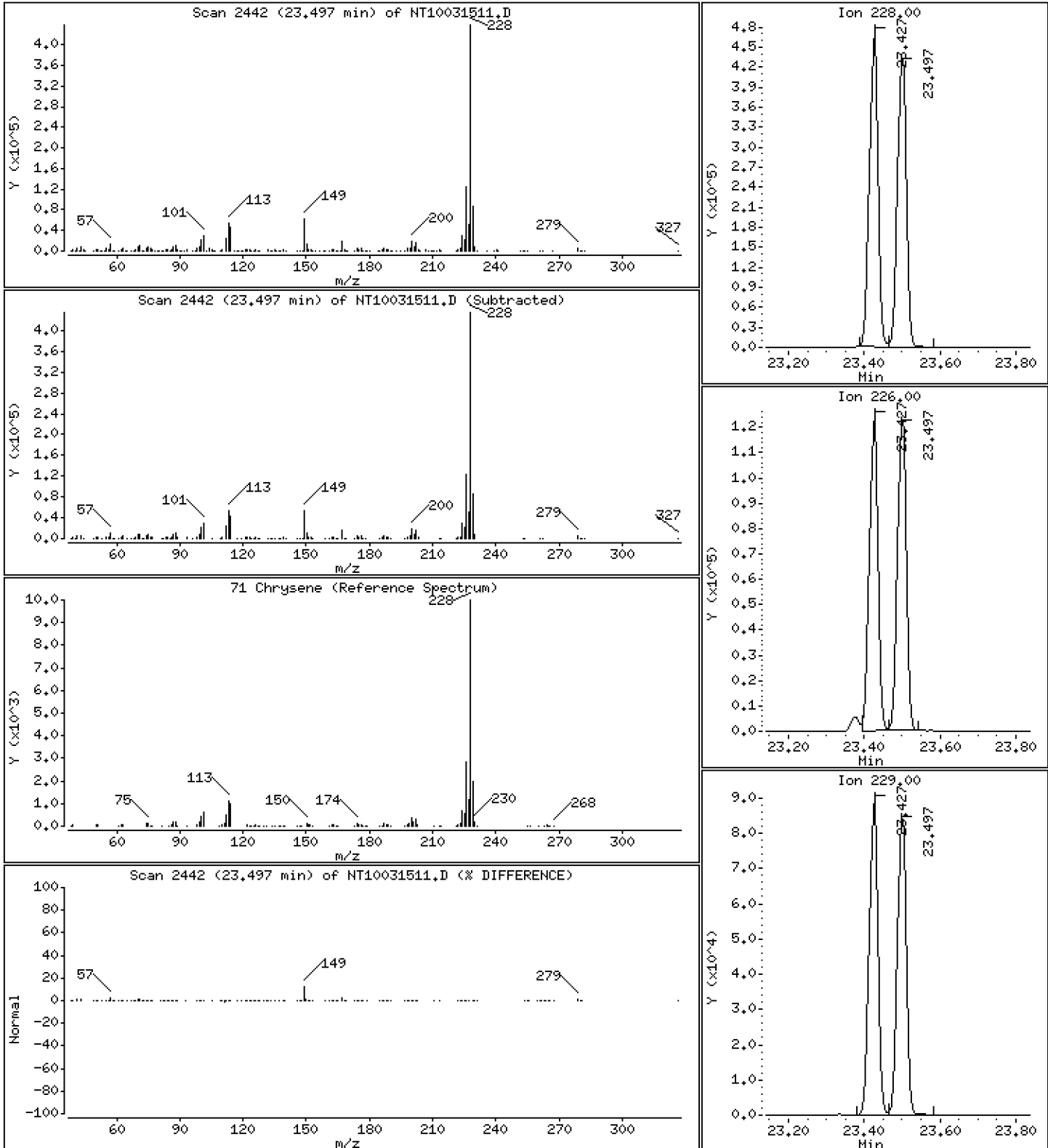
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,510 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

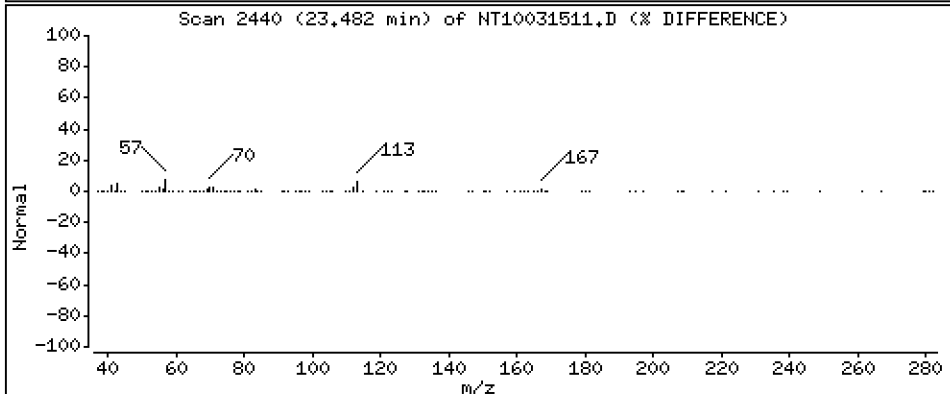
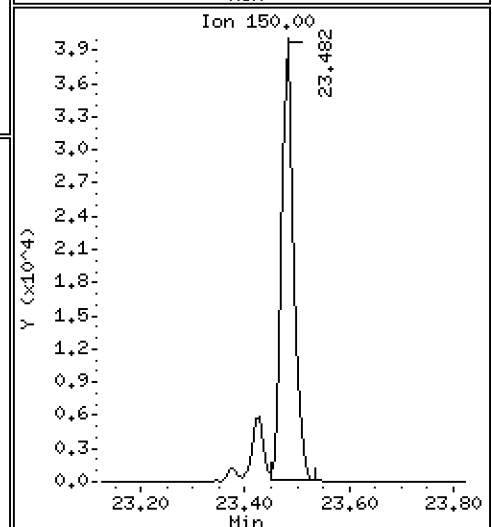
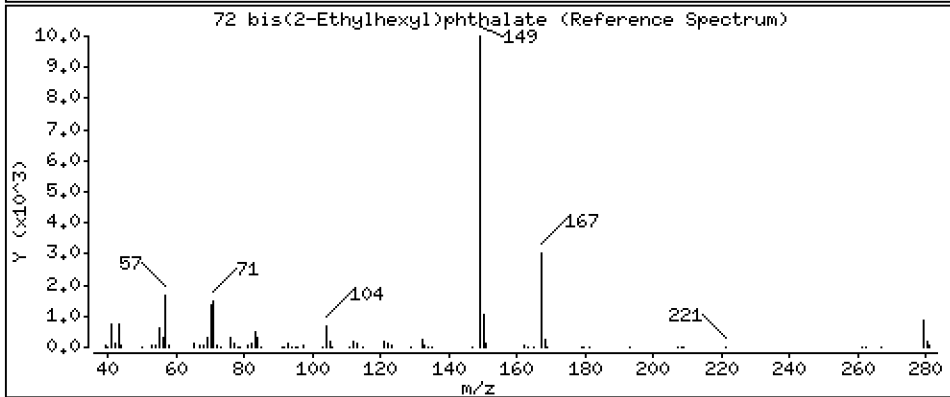
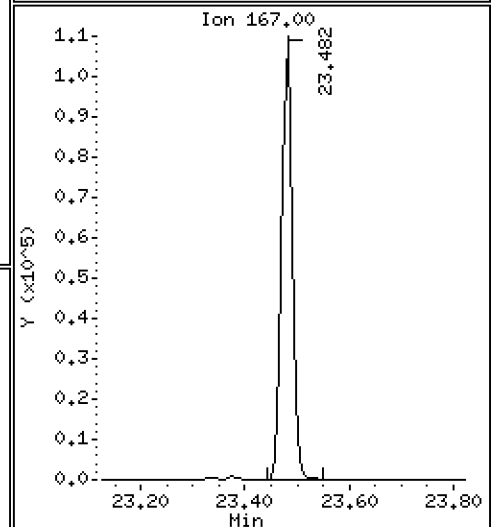
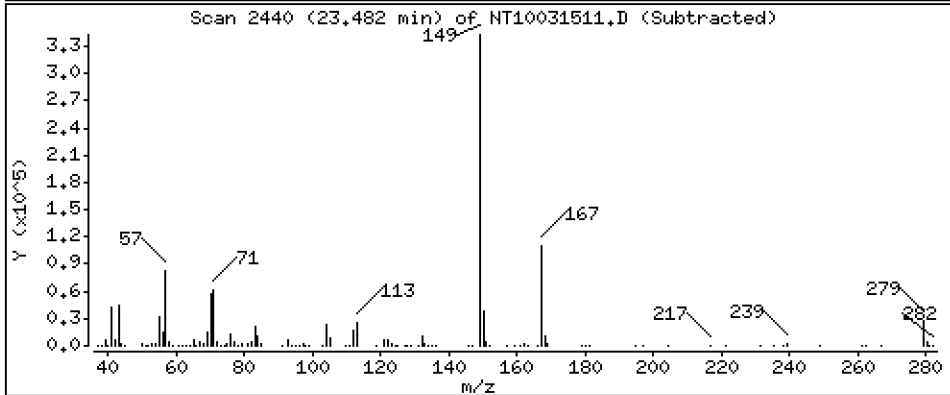
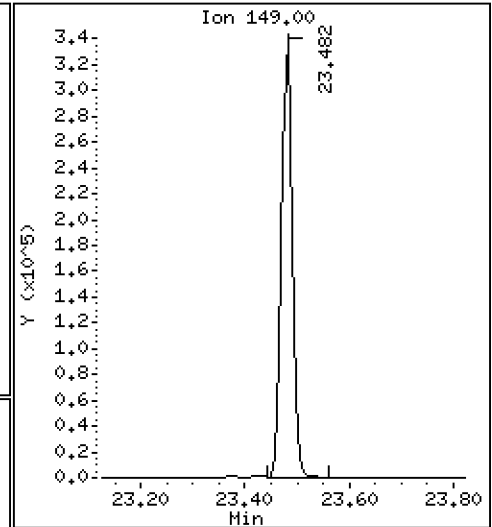
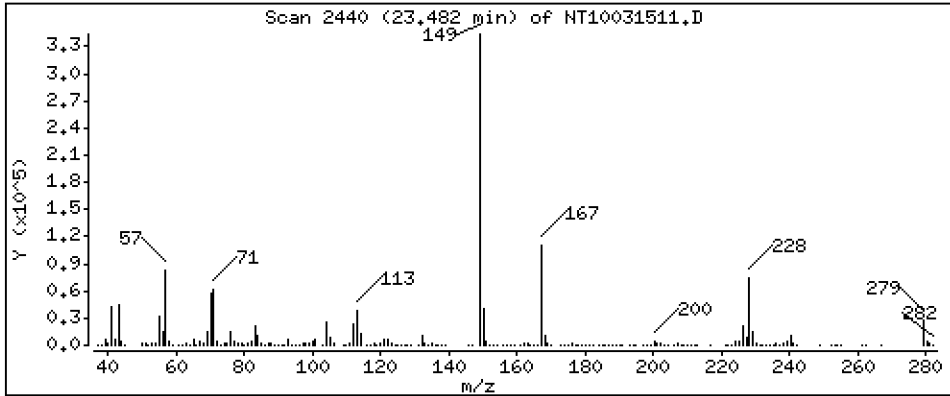
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,680 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

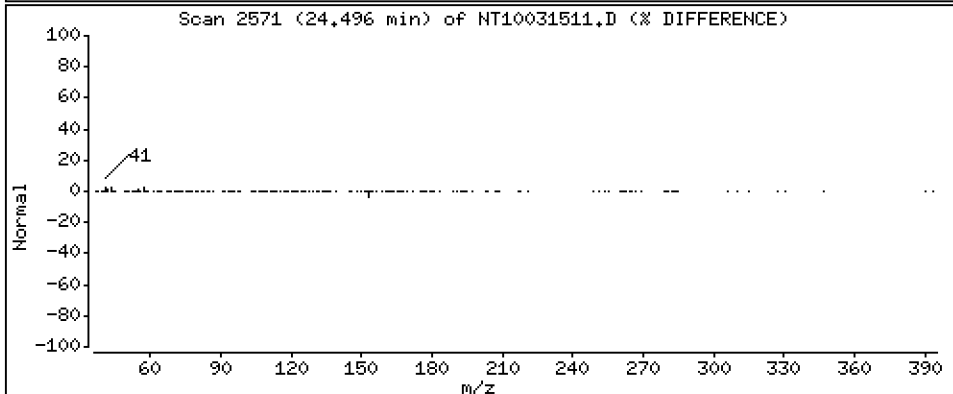
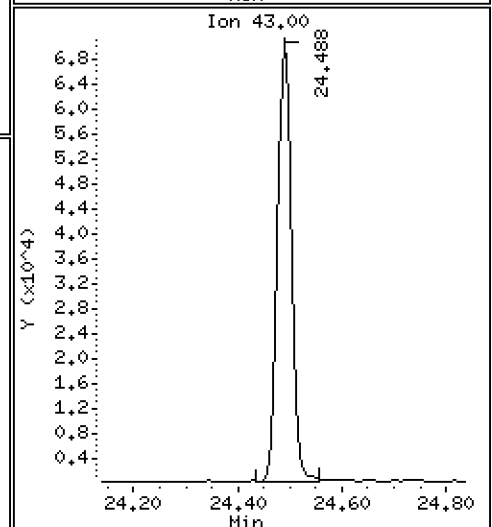
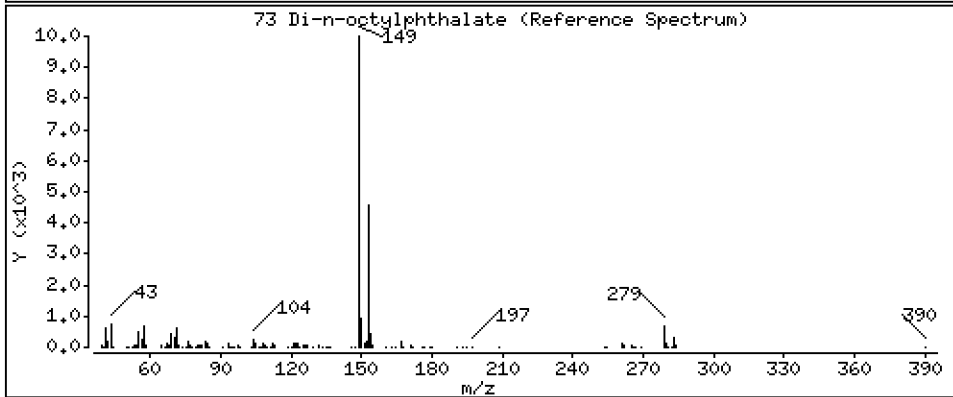
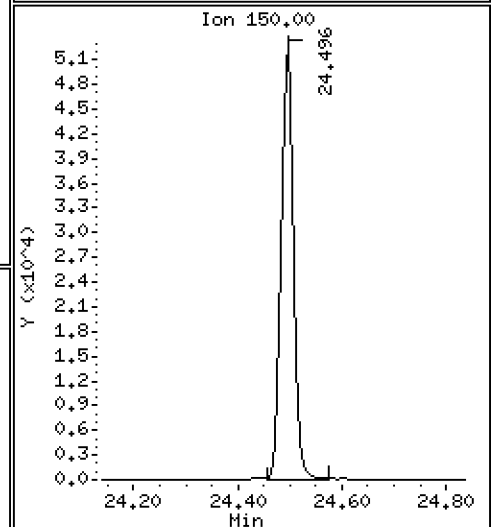
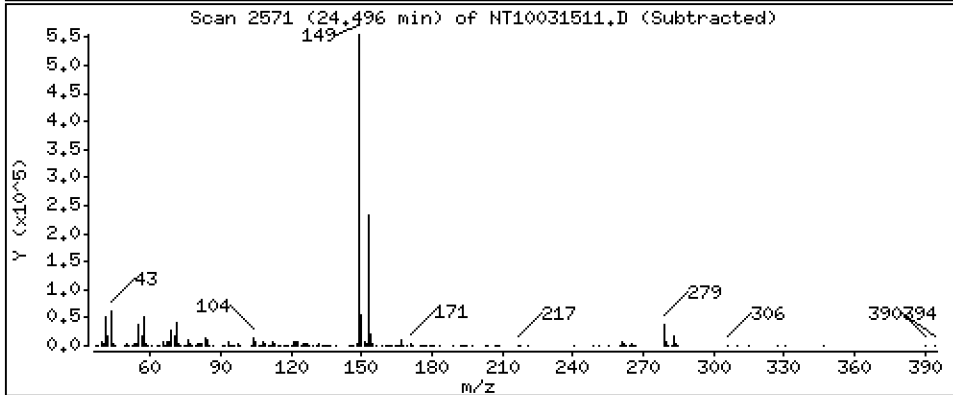
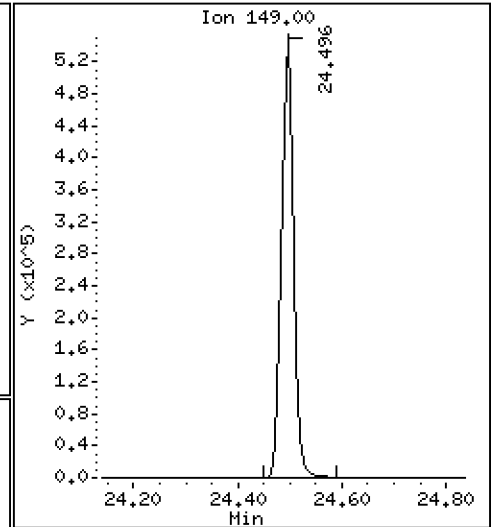
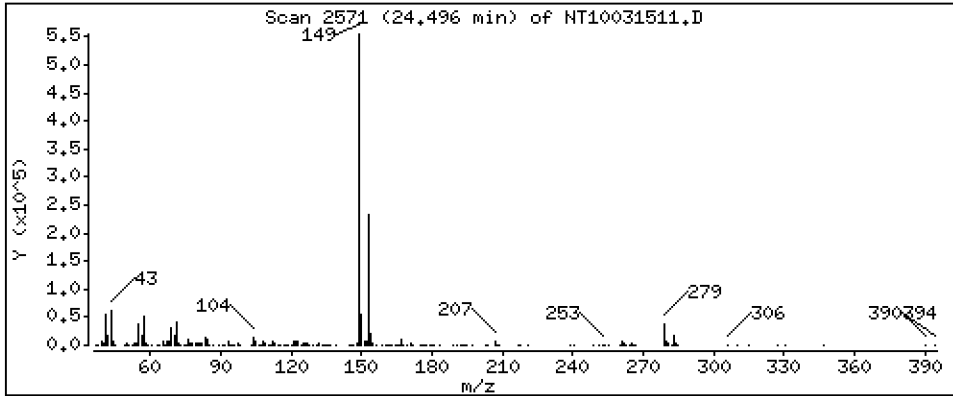
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,947 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

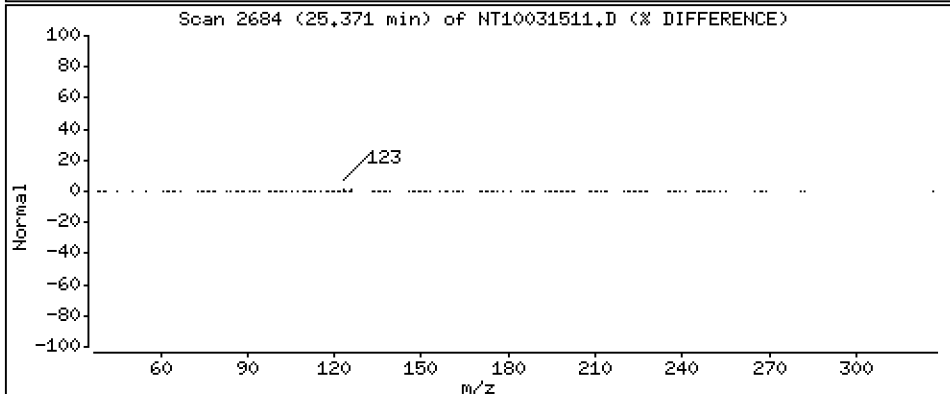
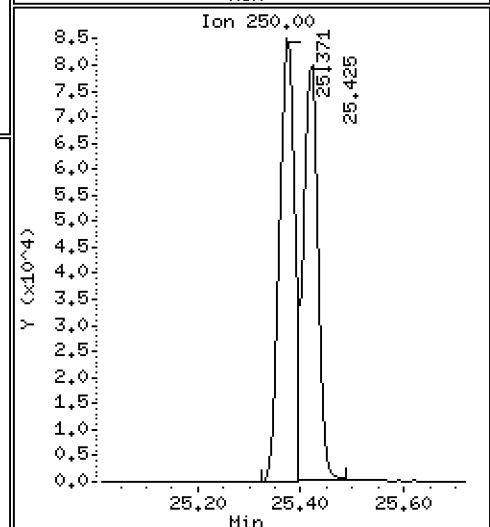
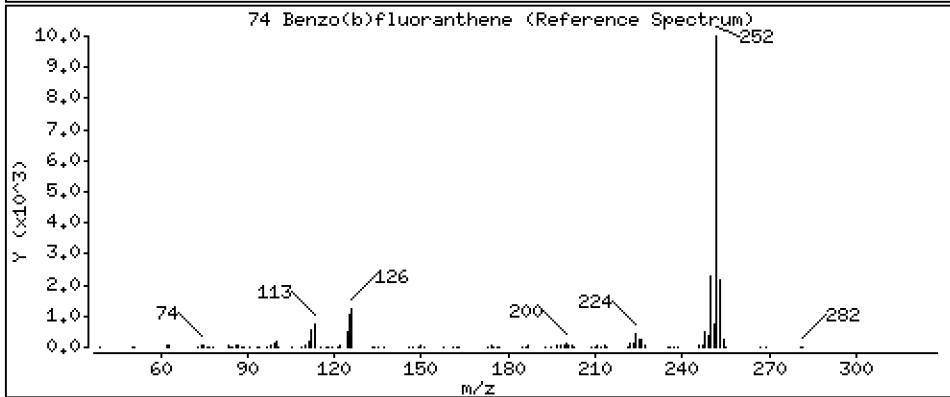
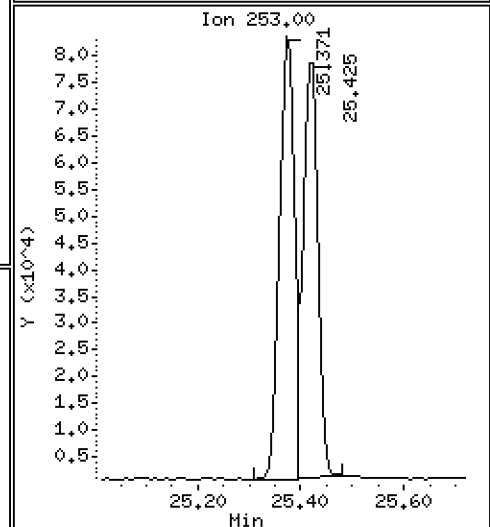
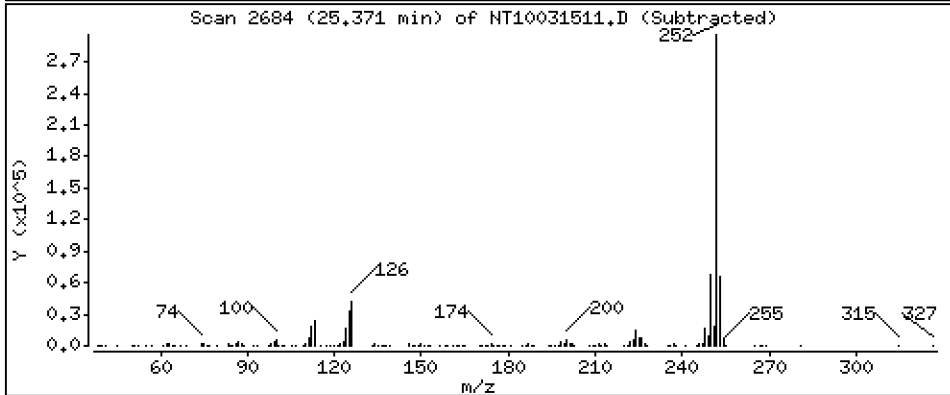
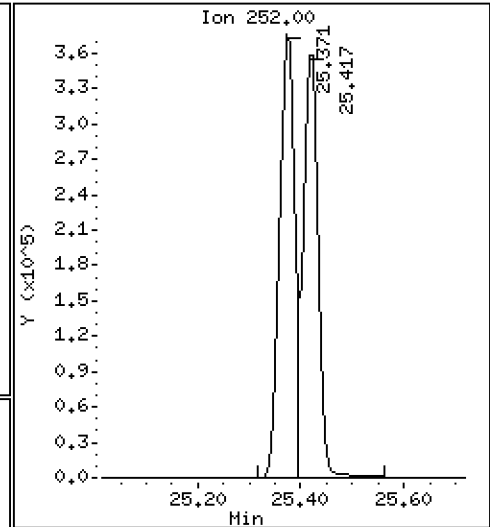
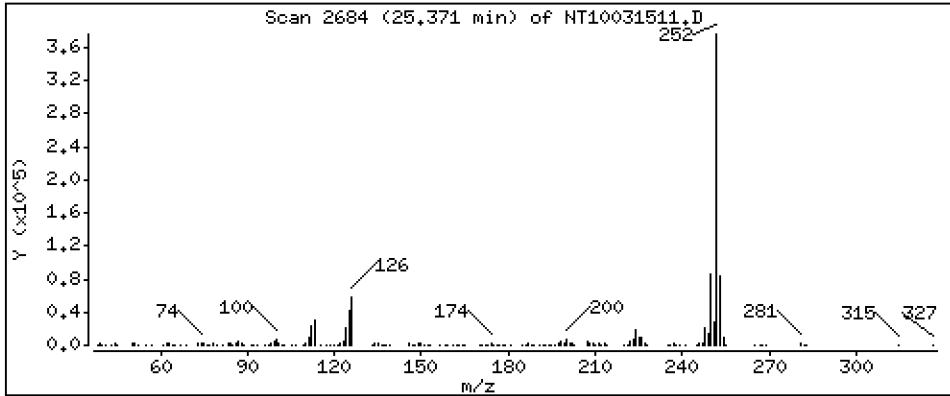
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,602 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

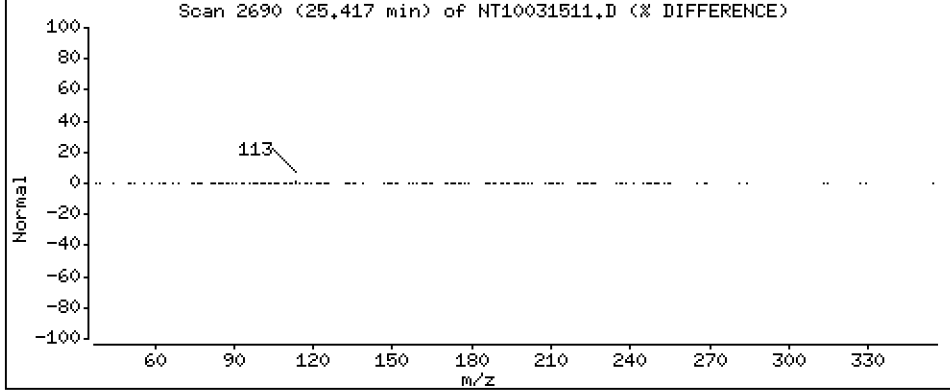
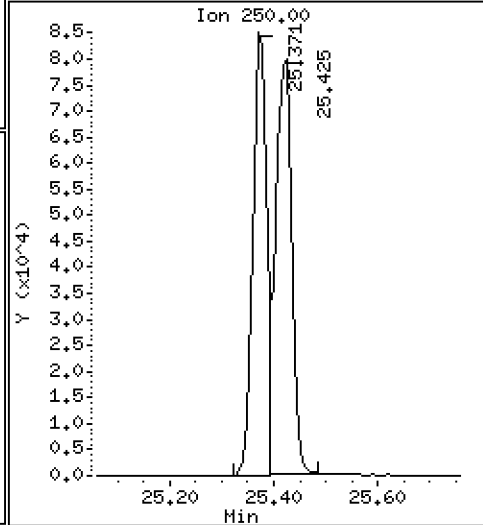
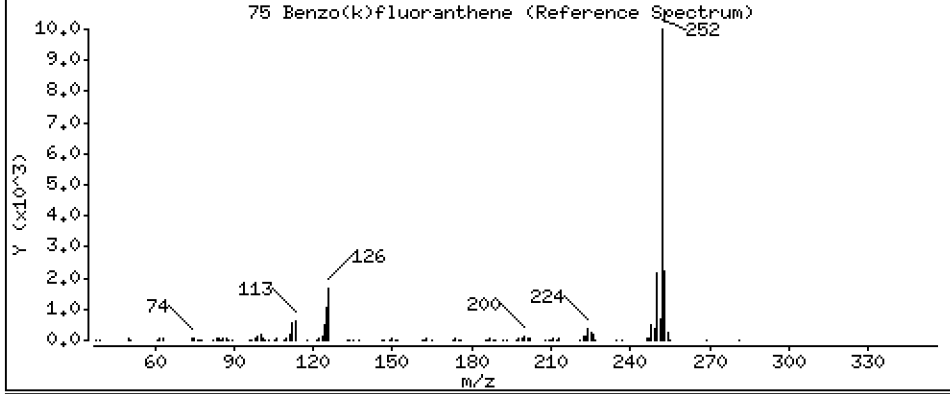
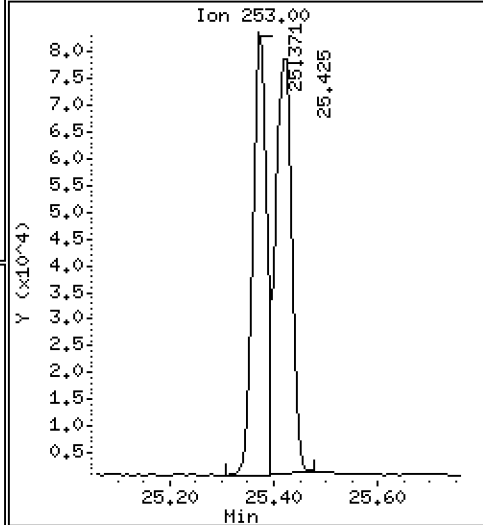
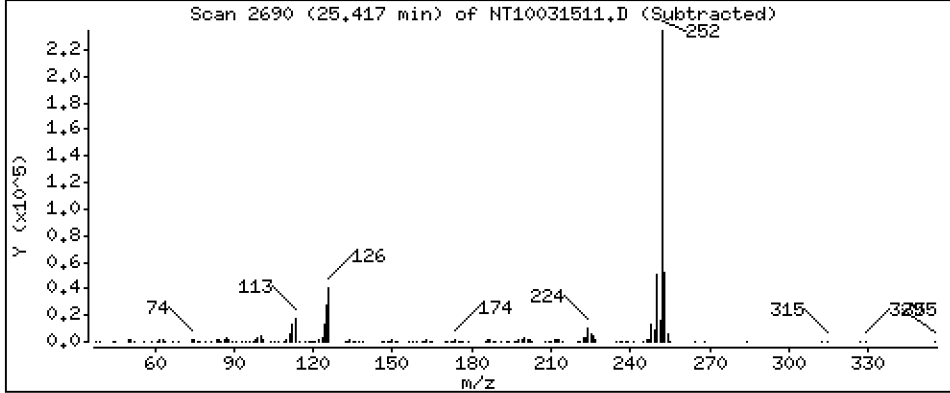
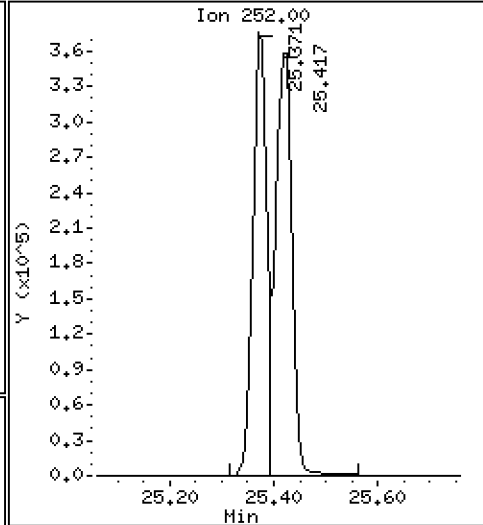
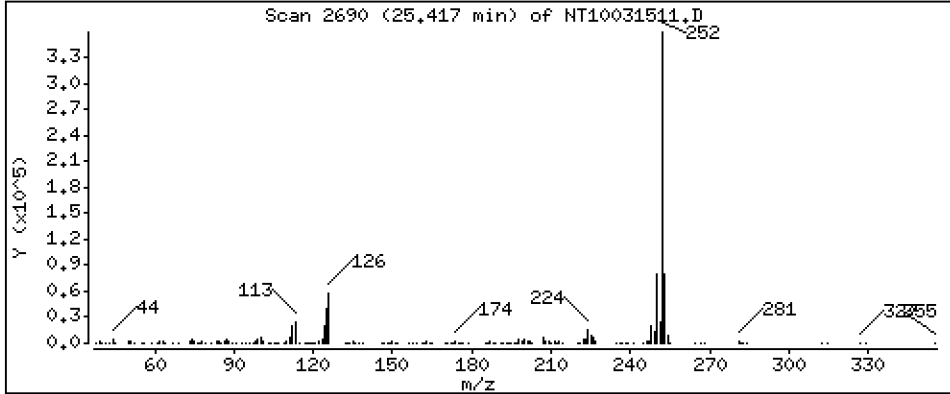
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,898 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

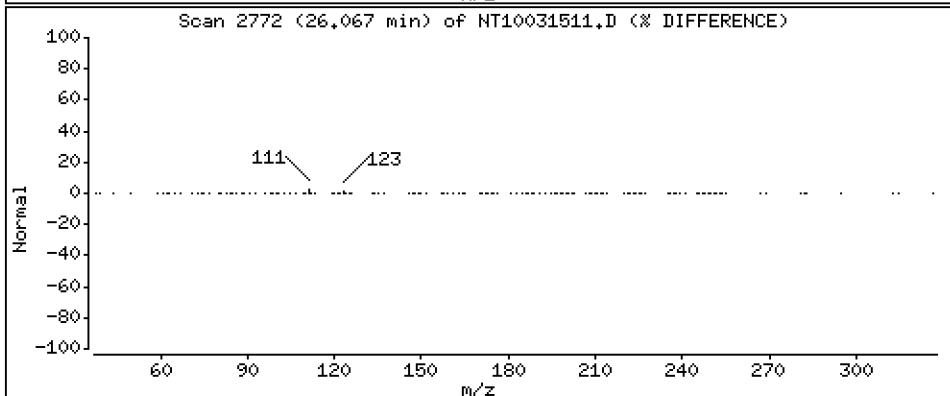
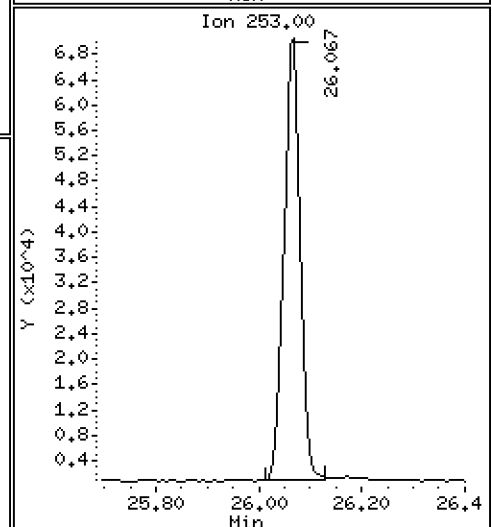
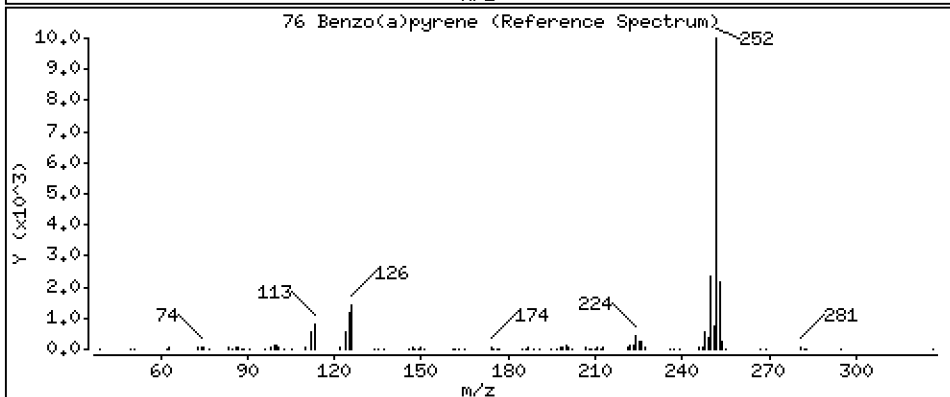
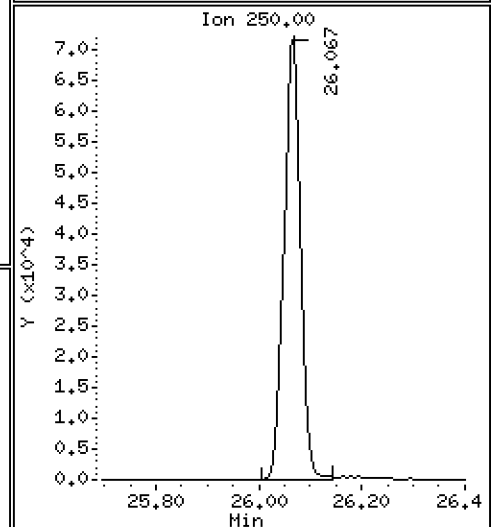
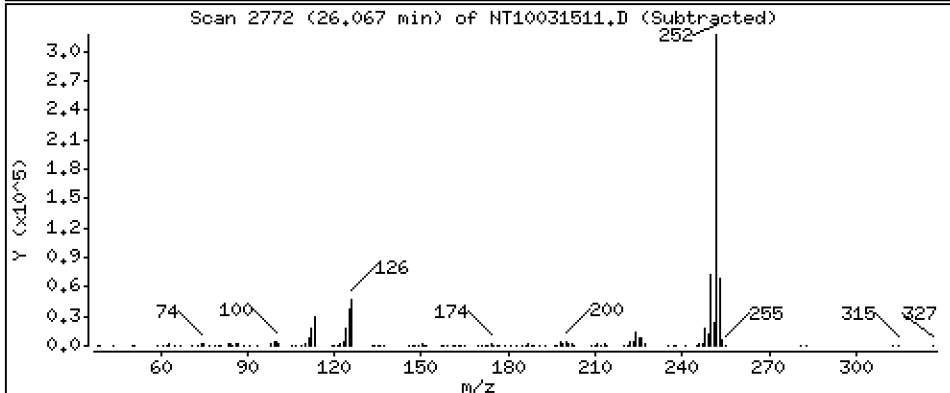
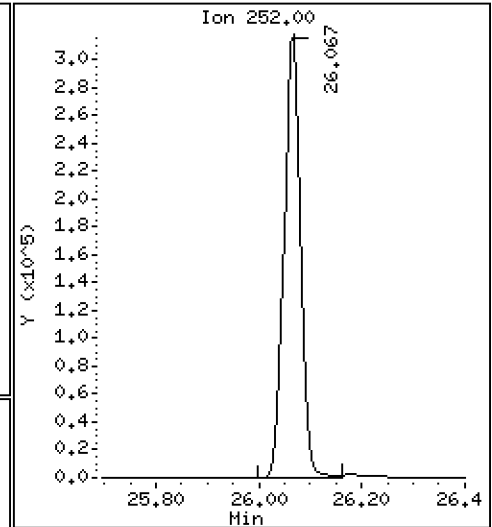
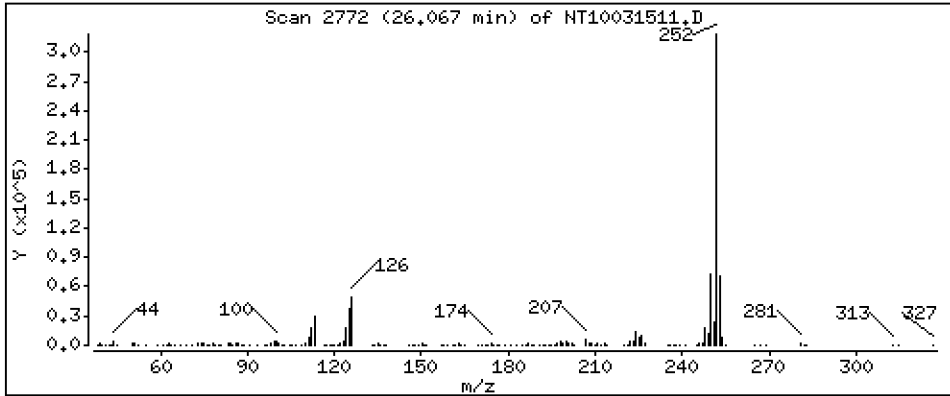
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,873 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

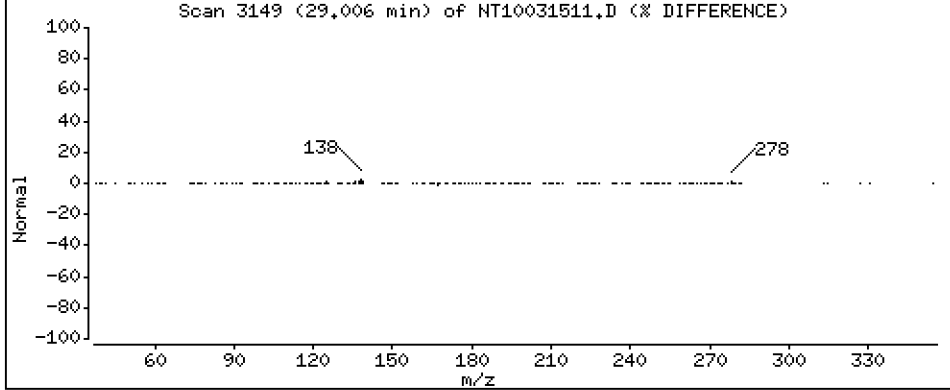
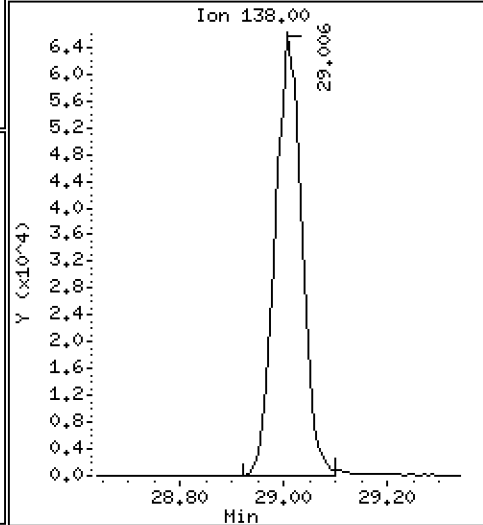
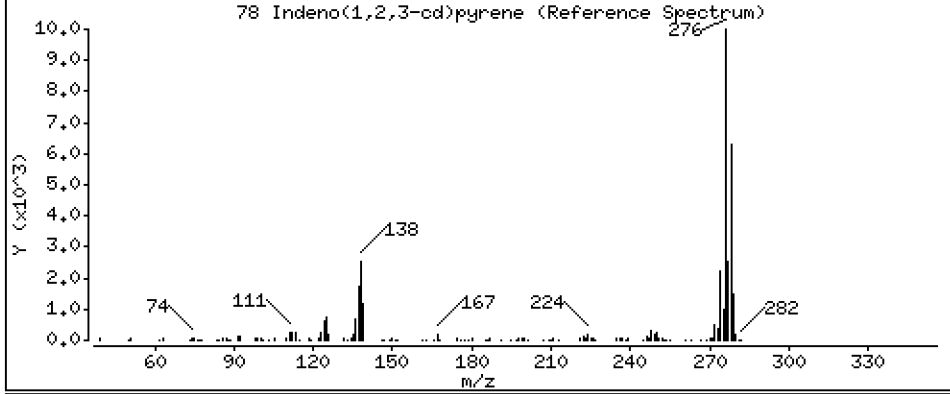
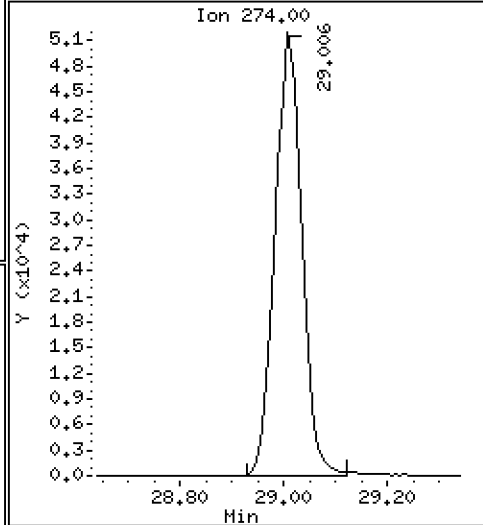
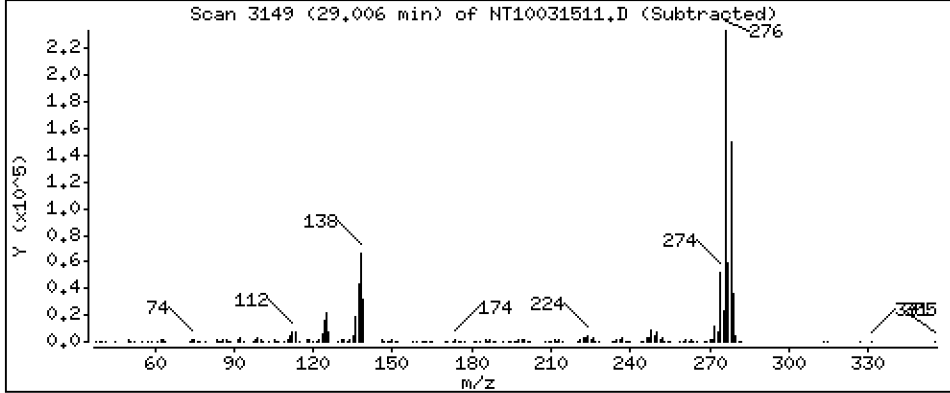
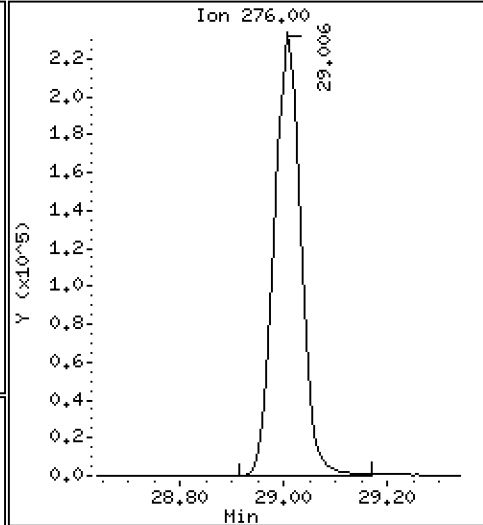
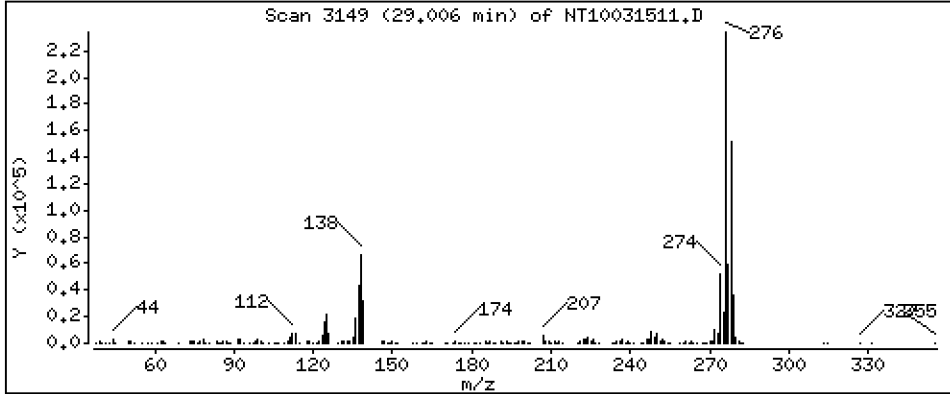
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 4,577 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

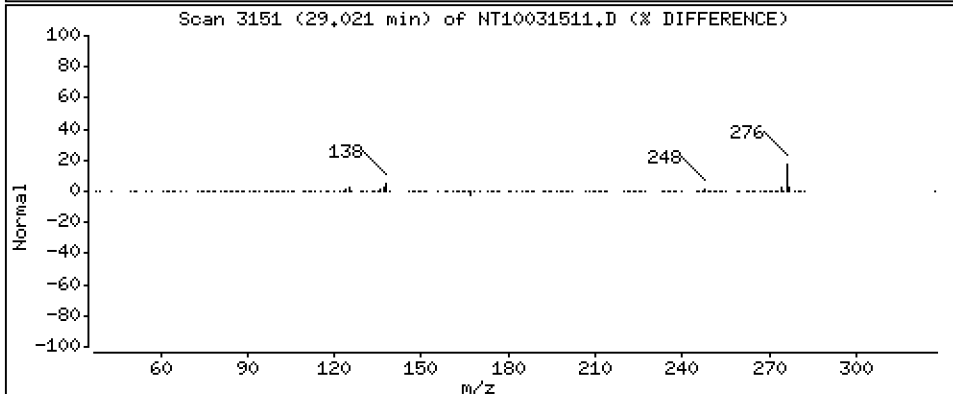
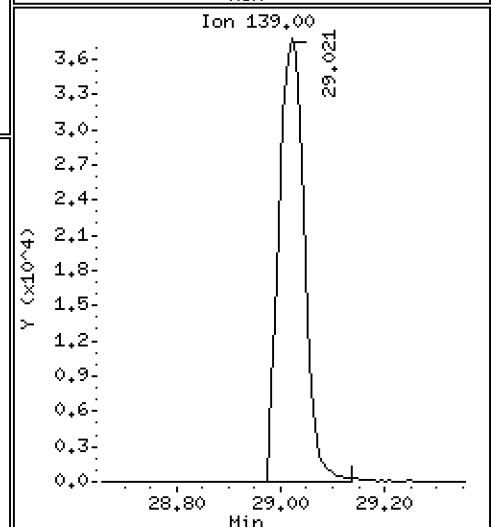
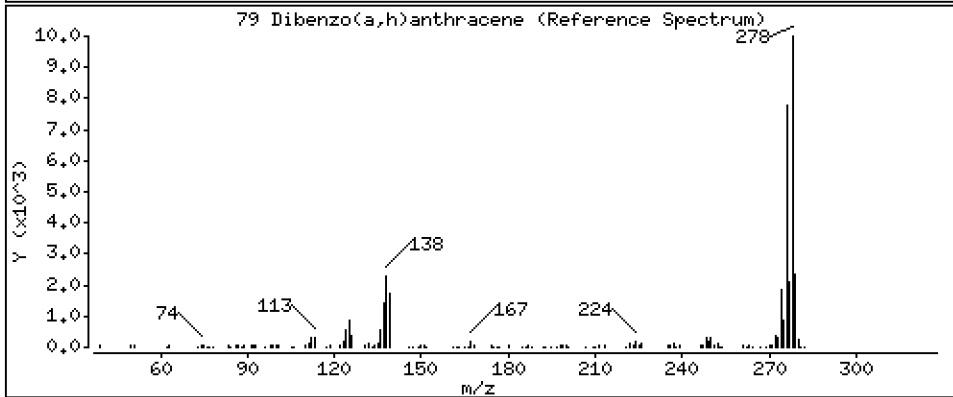
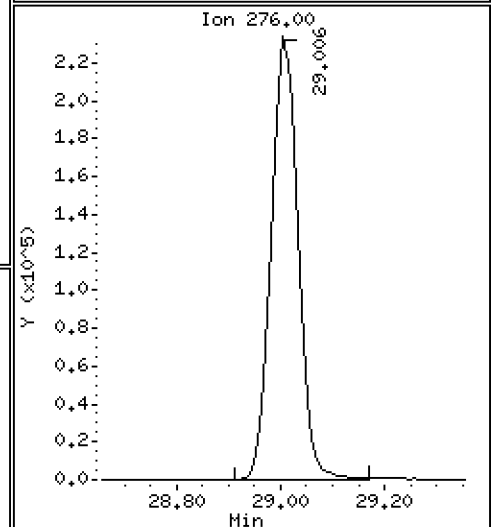
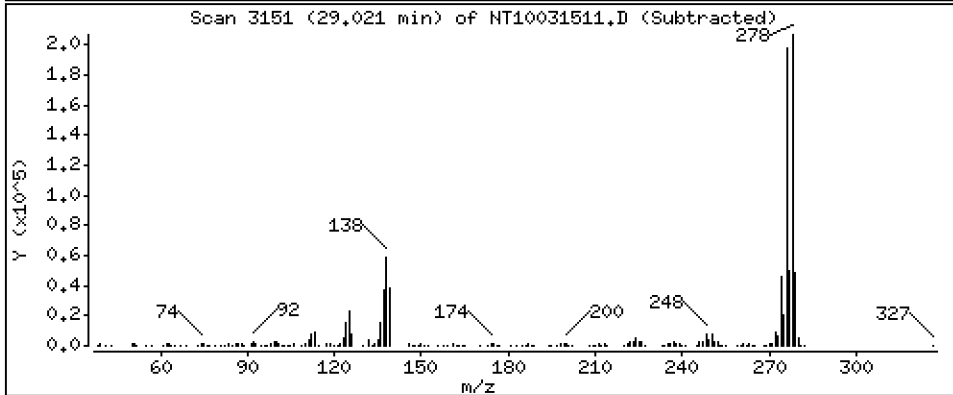
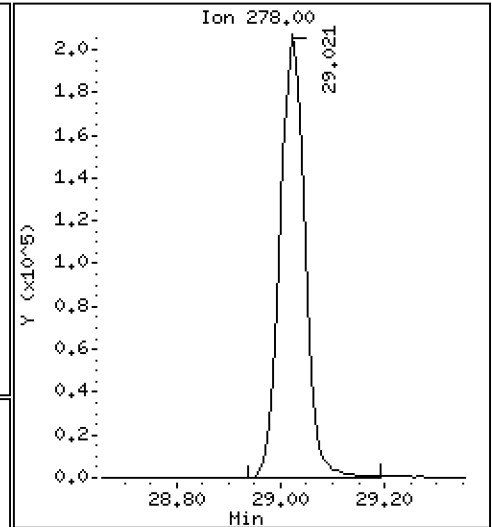
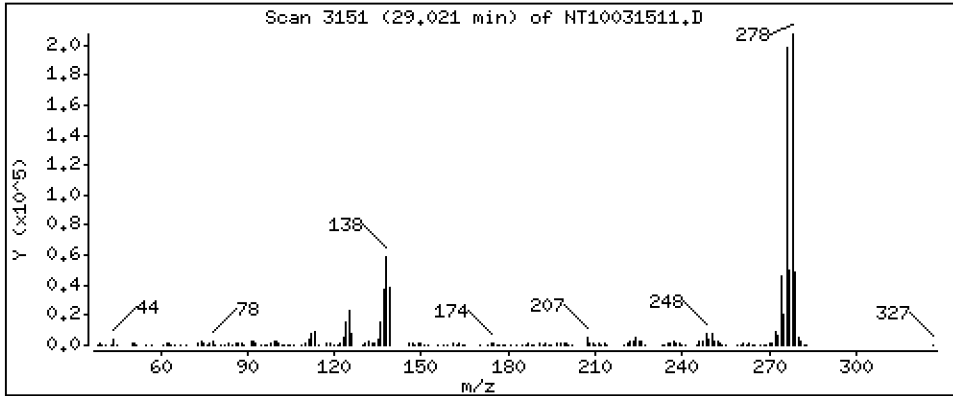
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,547 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

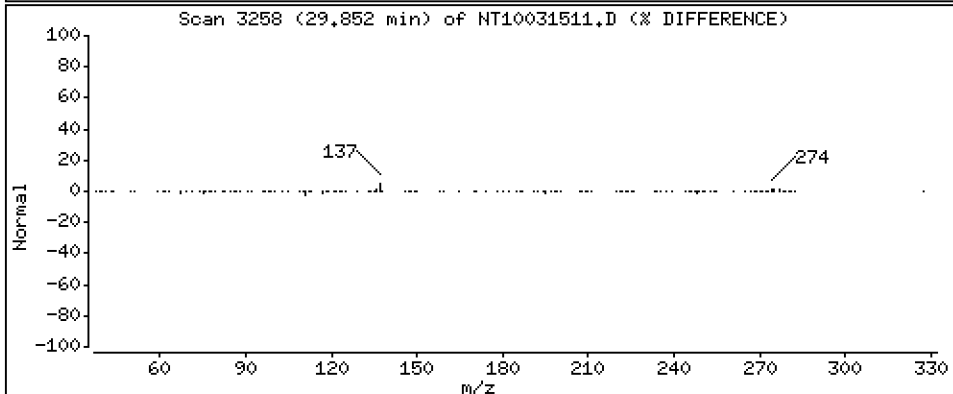
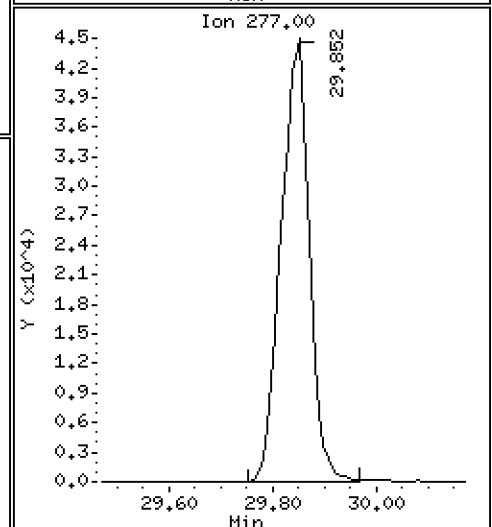
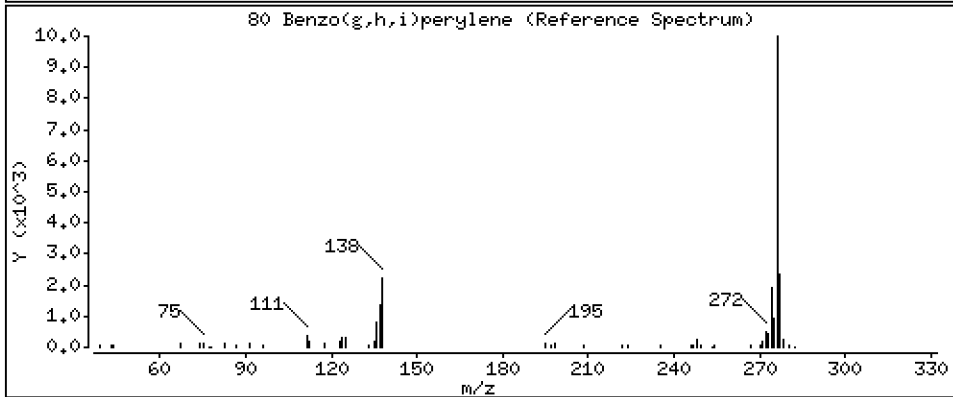
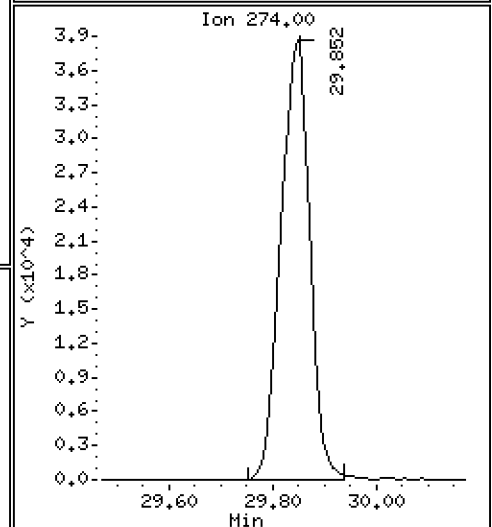
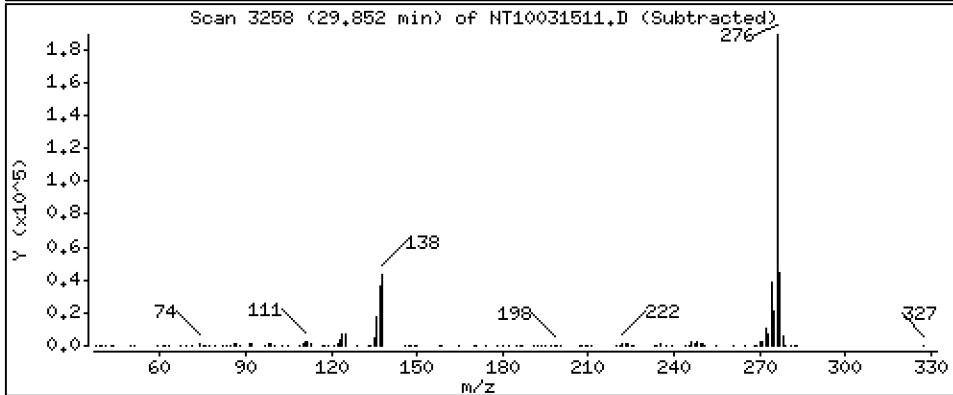
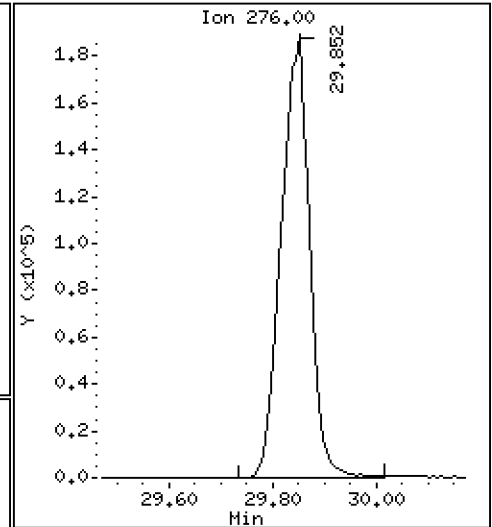
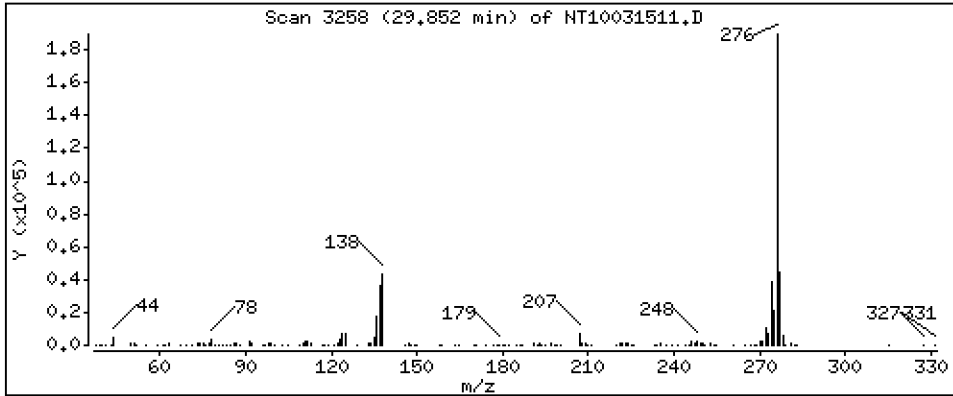
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,590 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

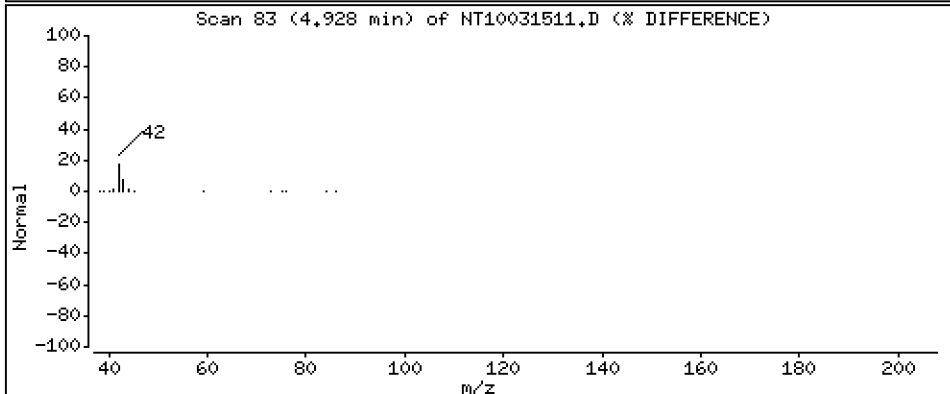
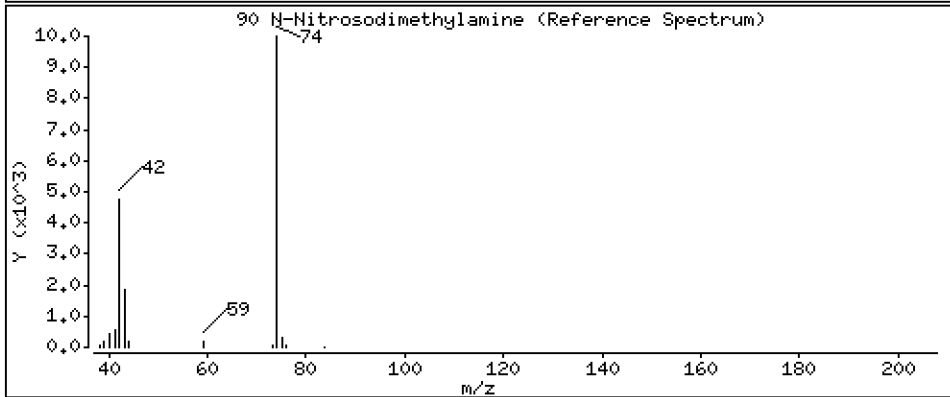
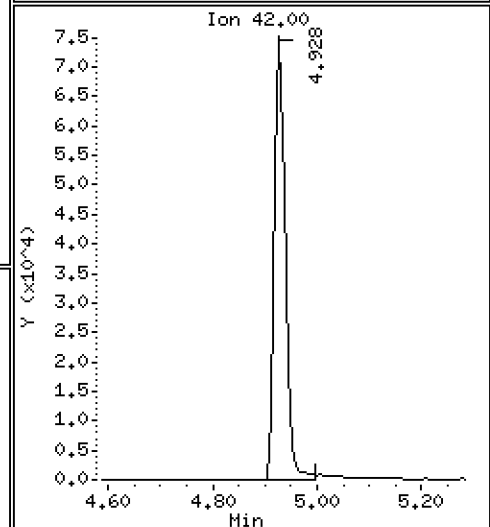
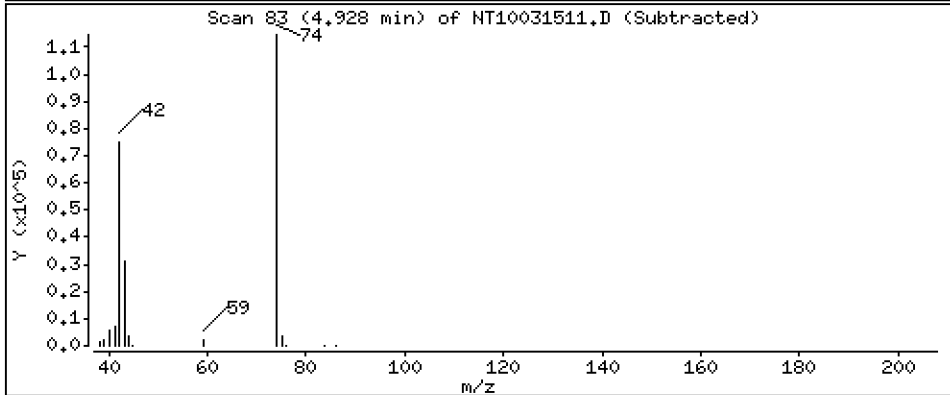
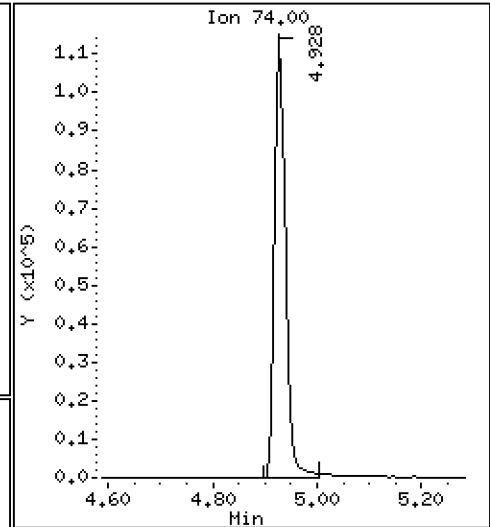
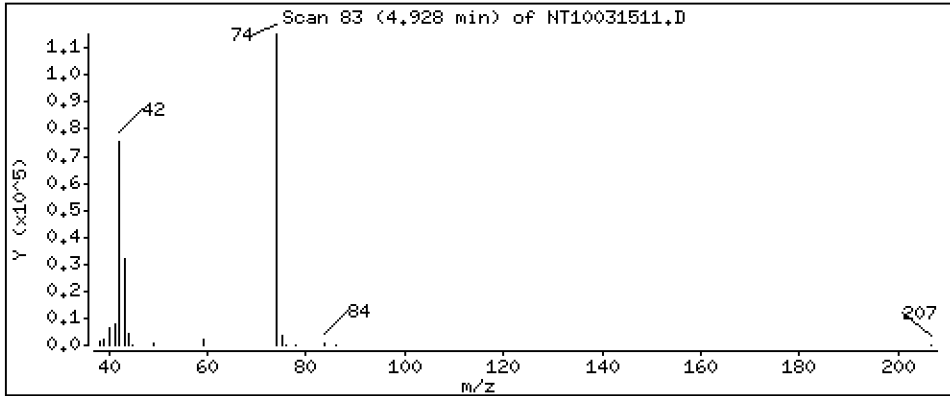
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 5.194 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

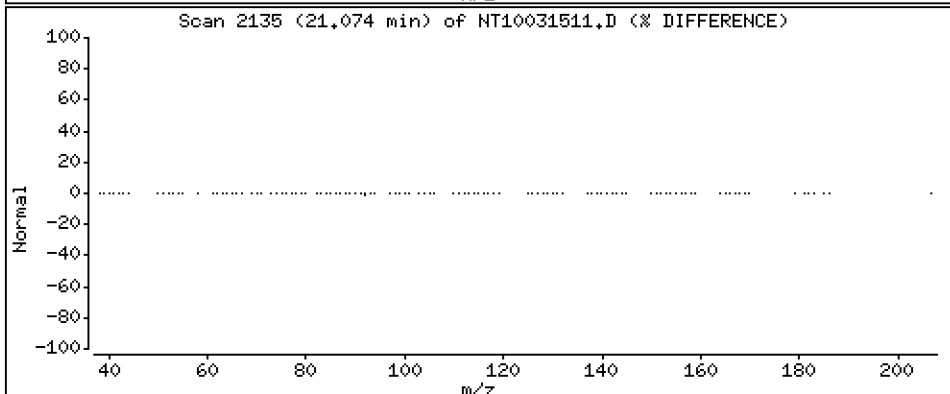
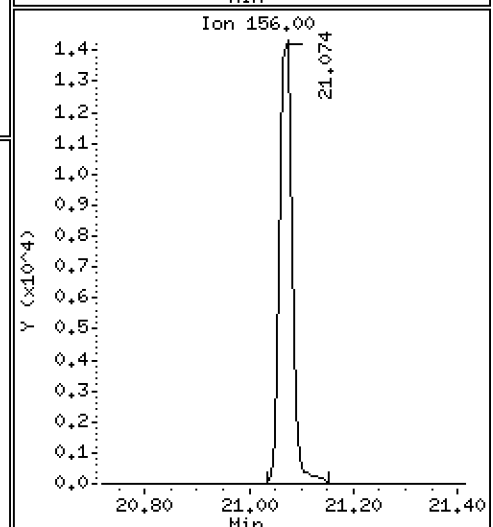
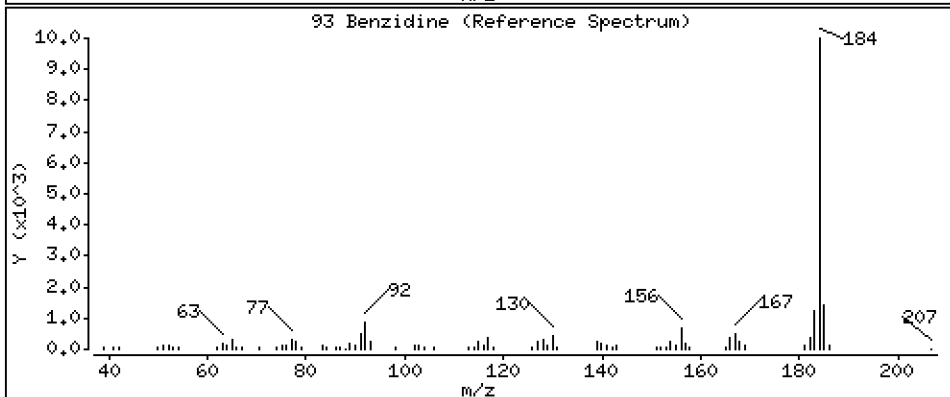
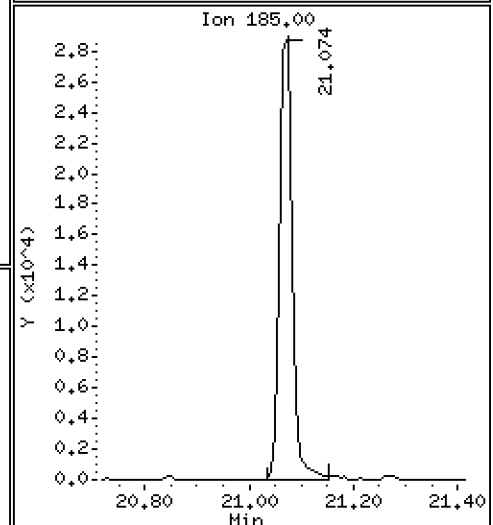
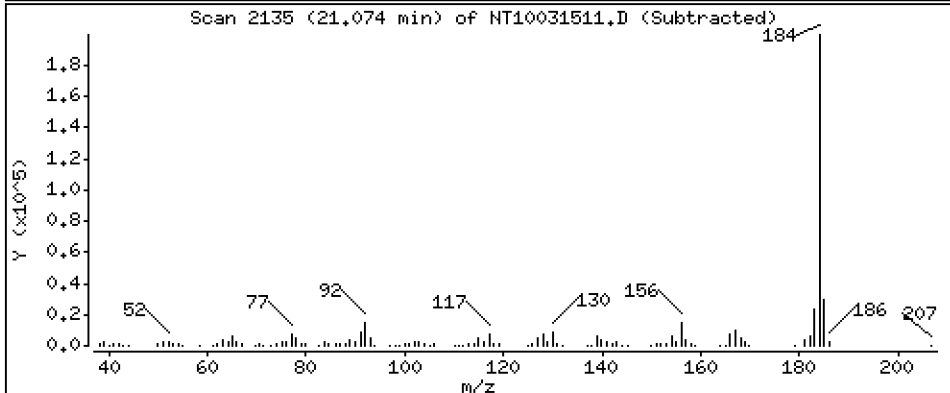
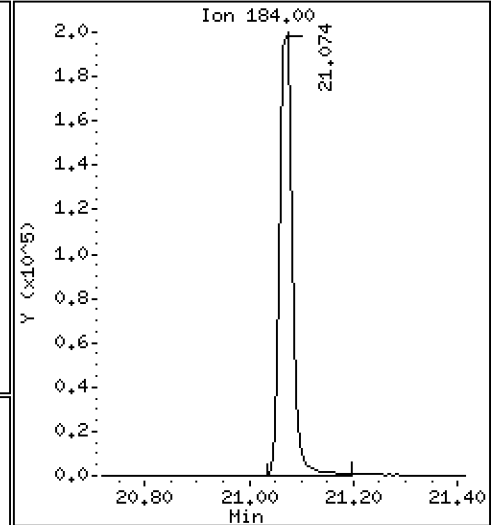
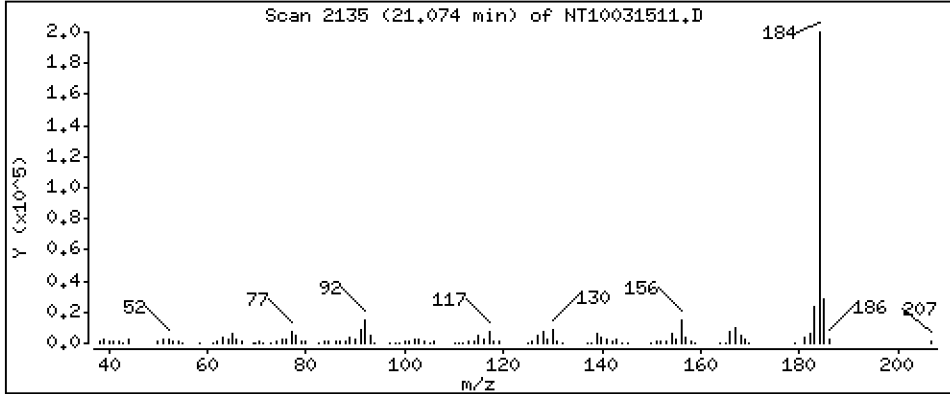
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 4,380 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

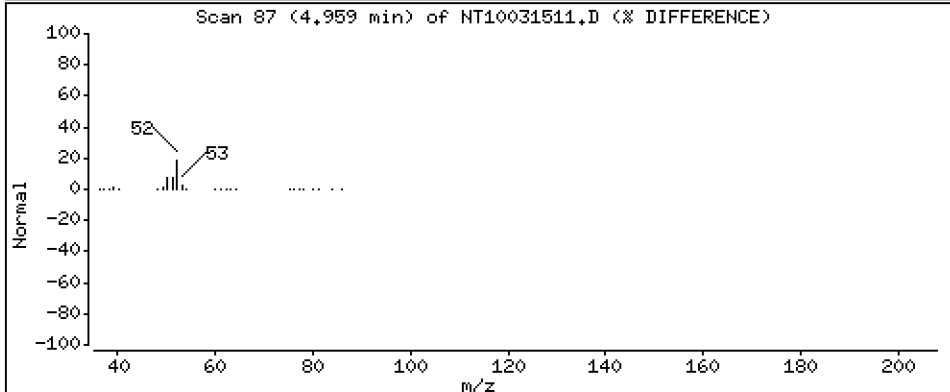
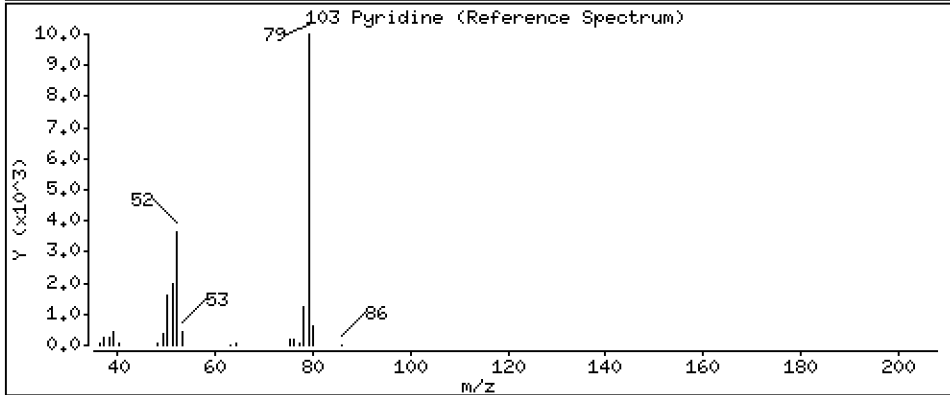
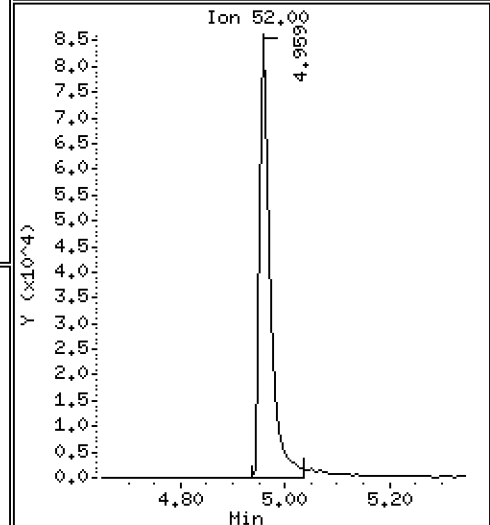
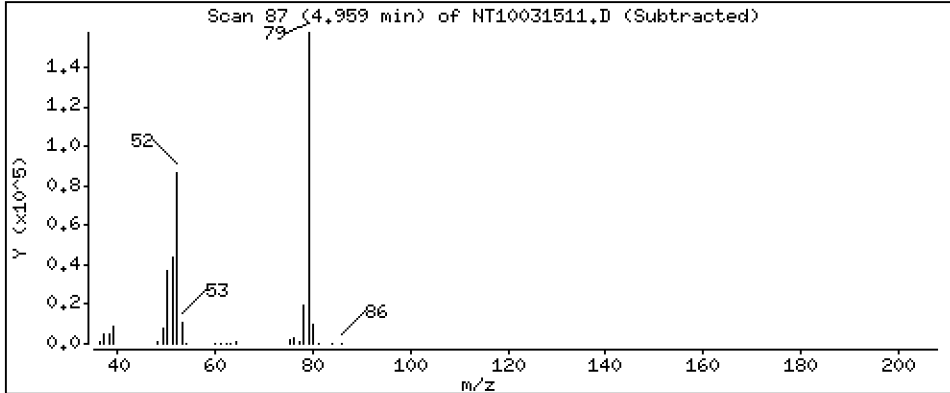
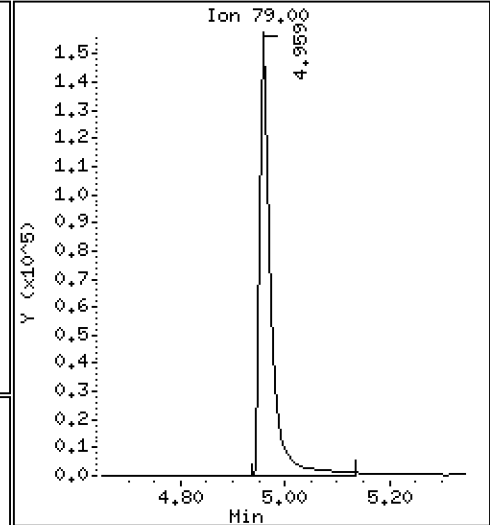
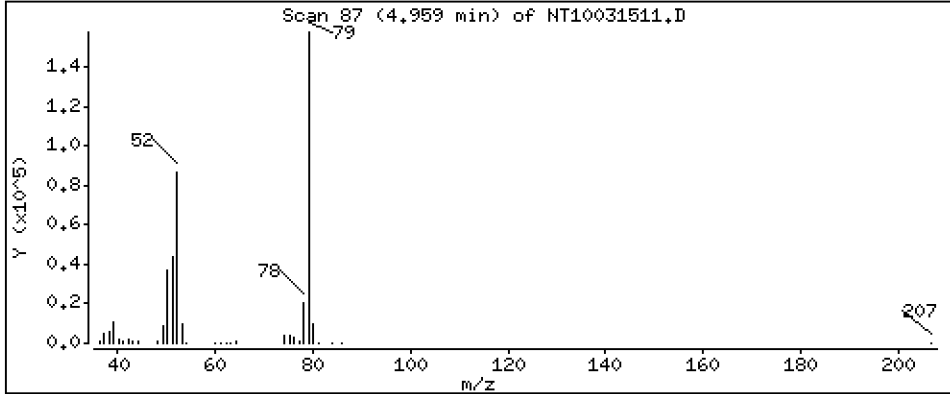
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

103 Pyridine

Concentration: 5.337 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

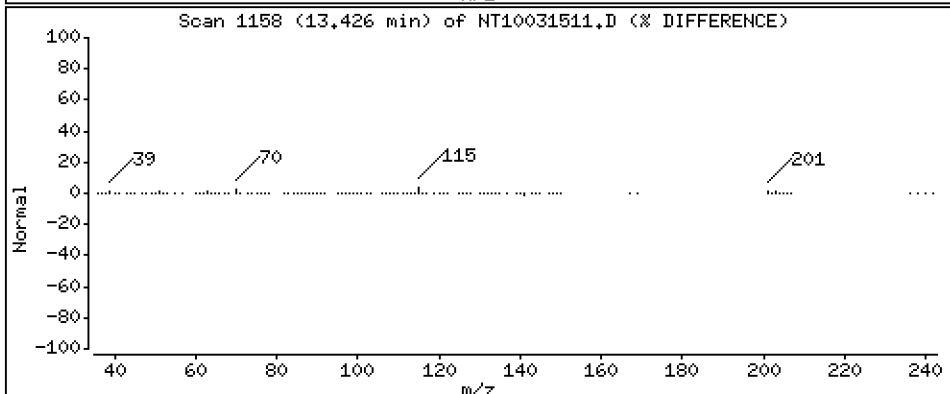
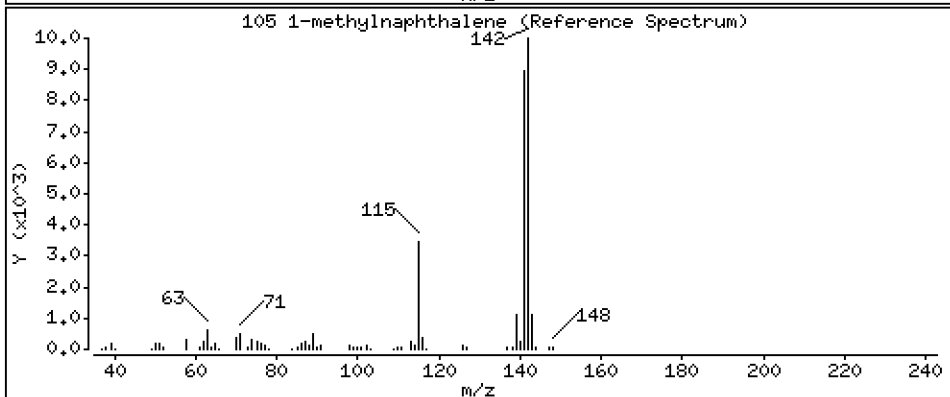
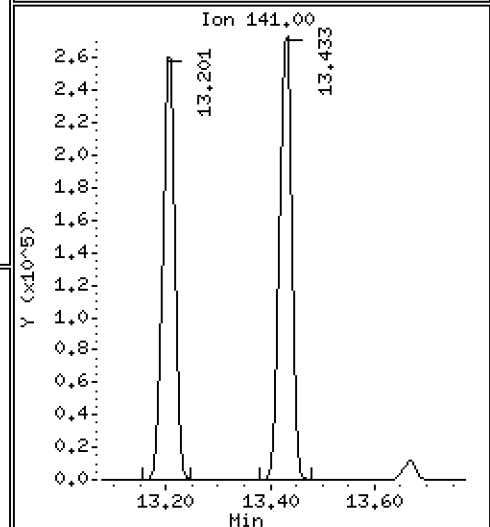
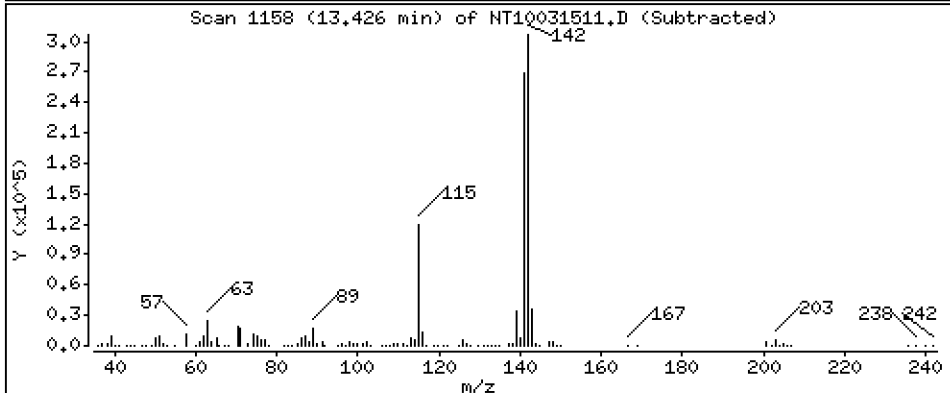
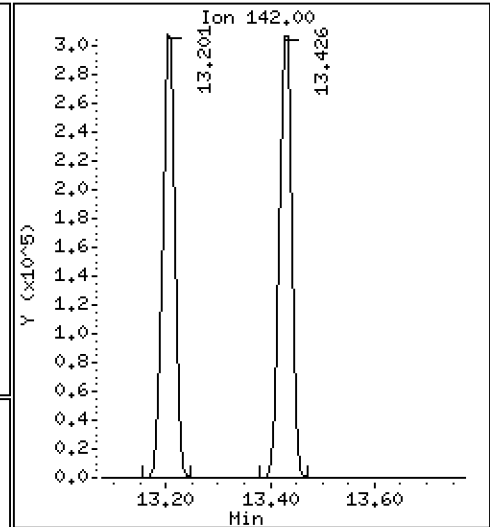
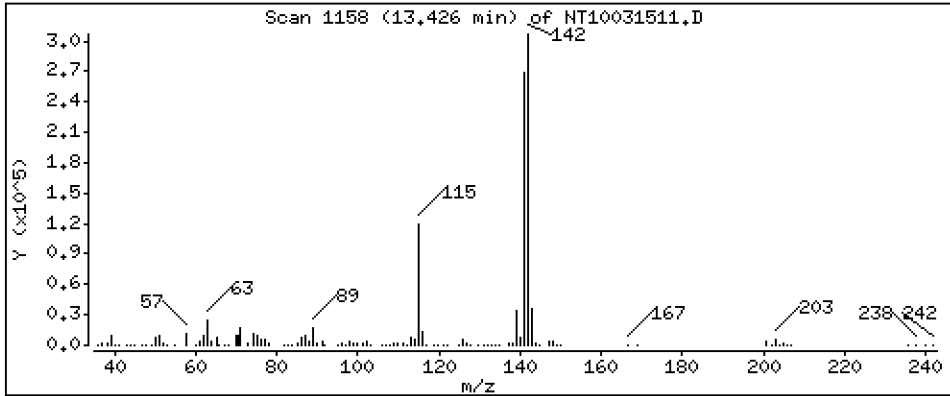
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,875 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

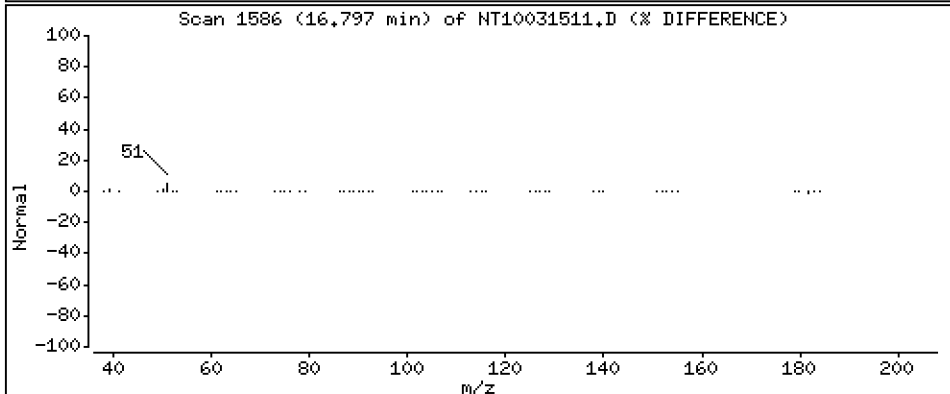
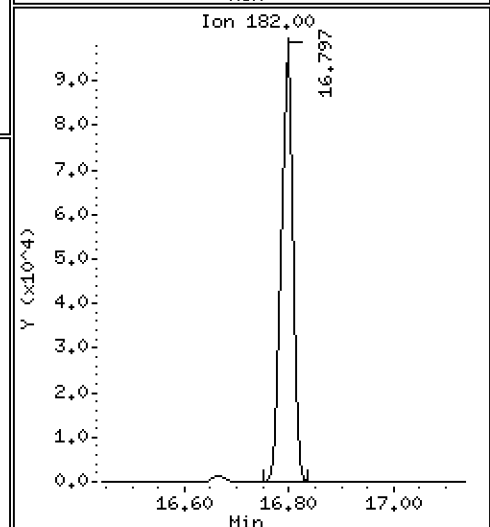
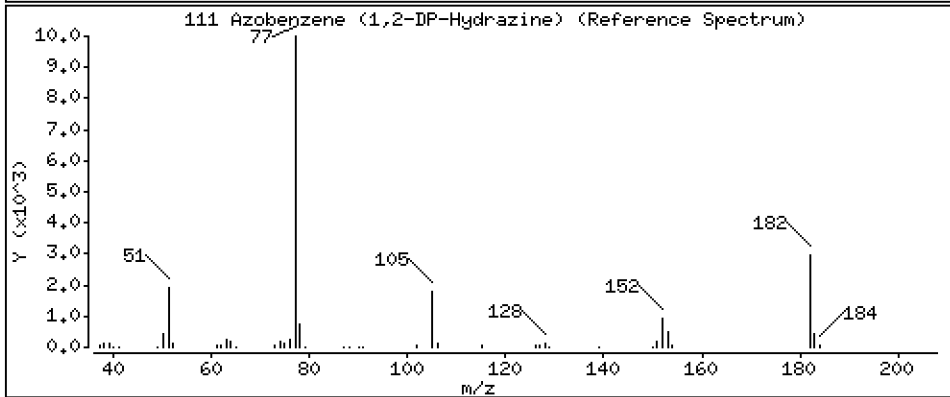
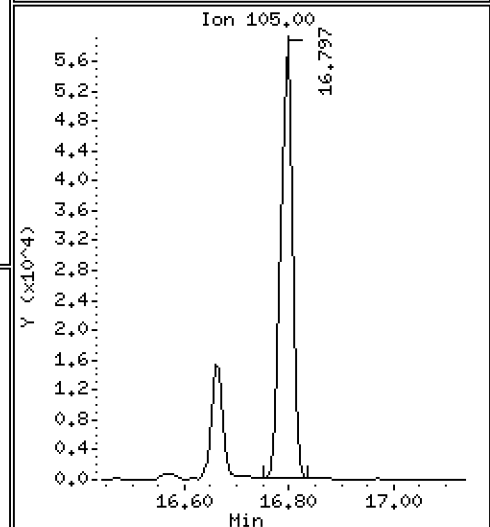
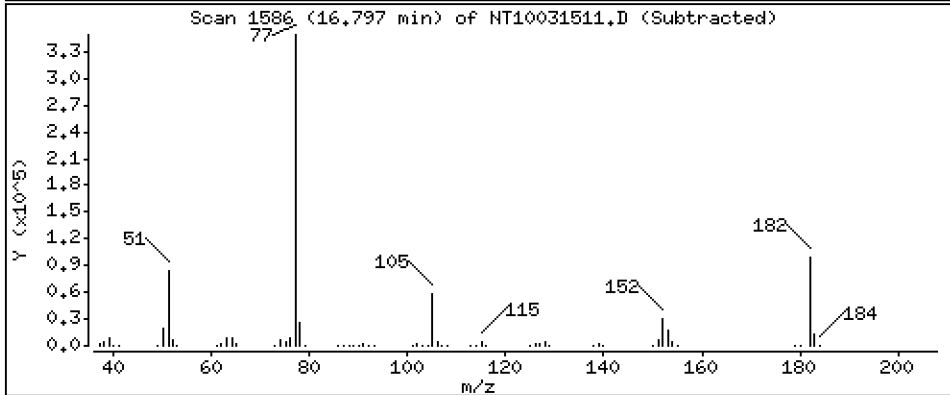
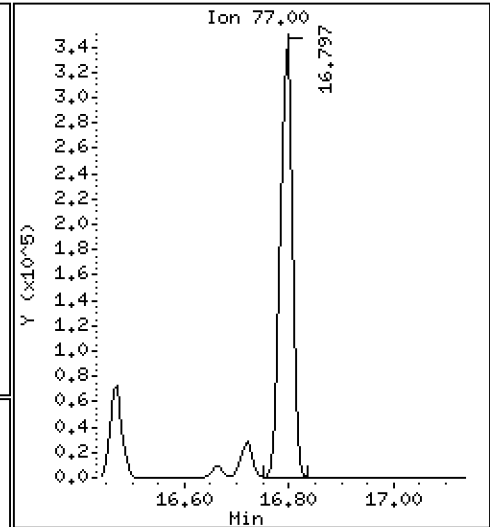
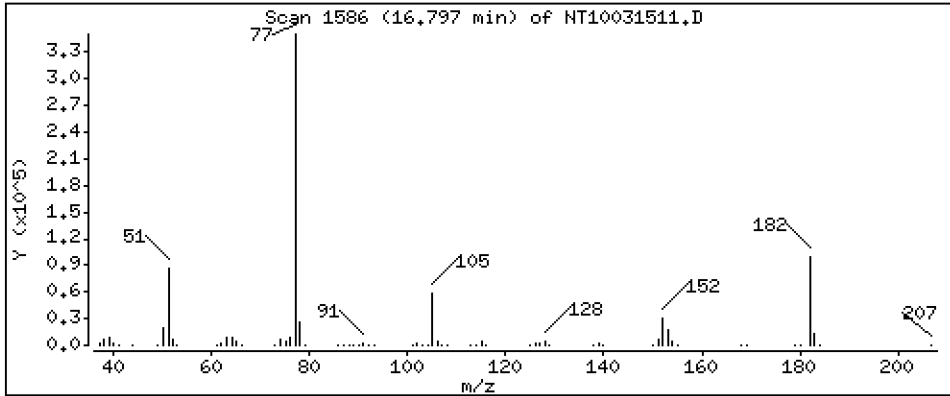
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,937 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

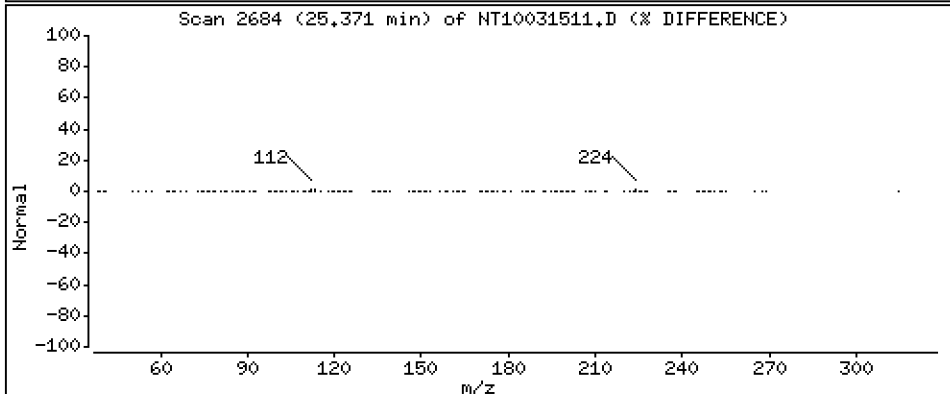
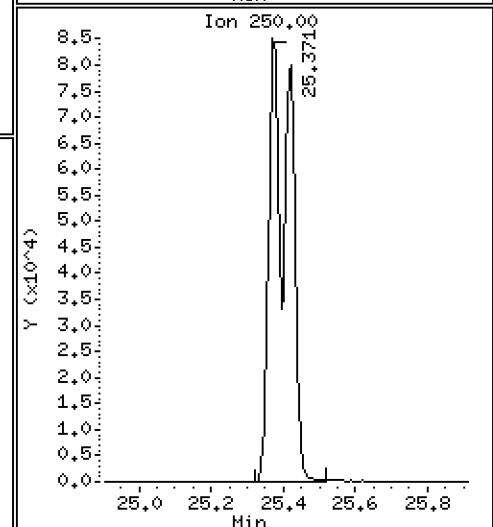
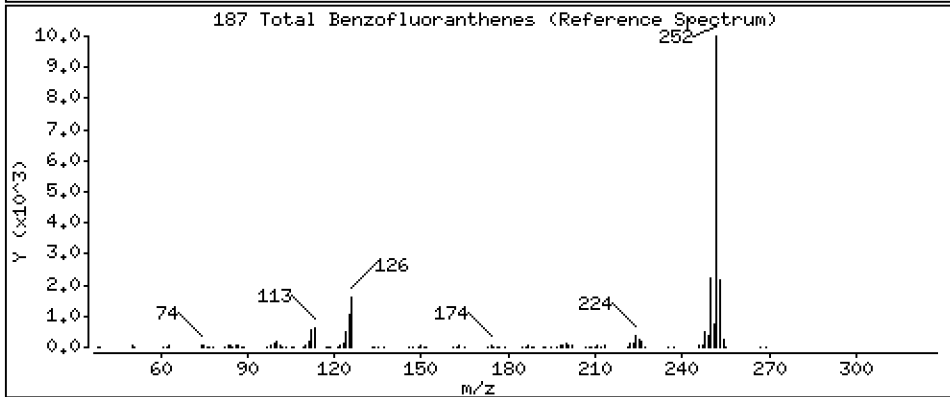
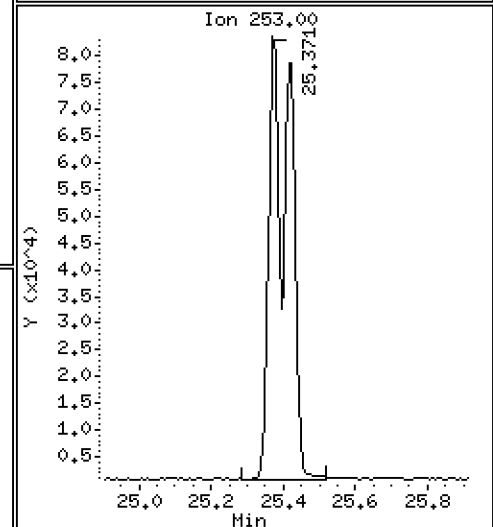
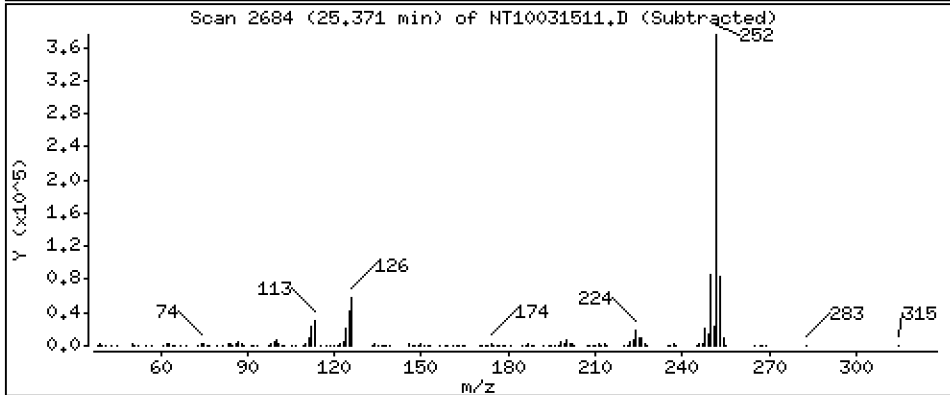
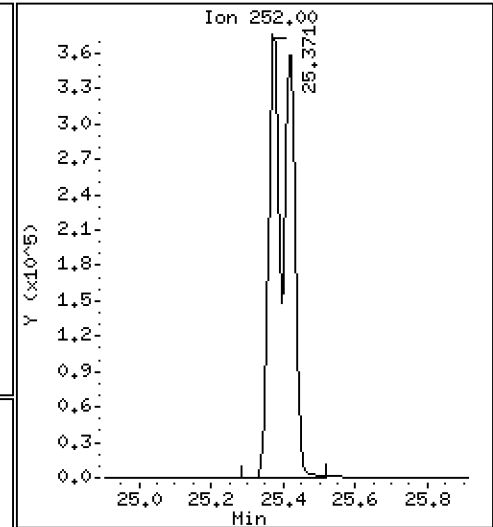
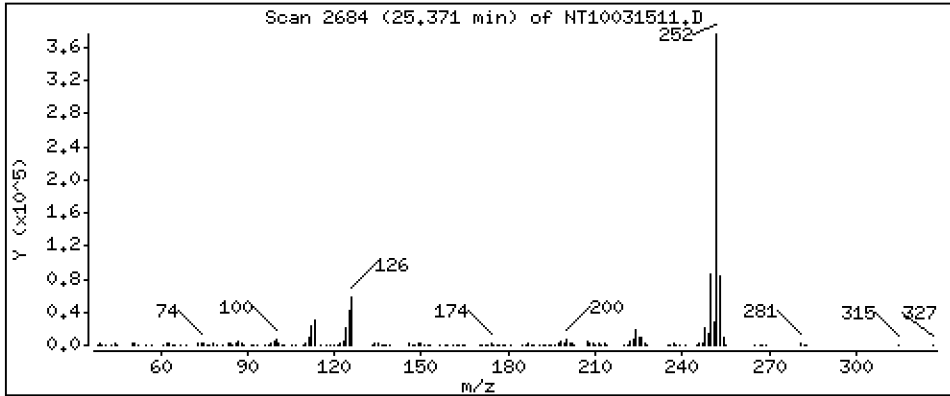
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,483 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

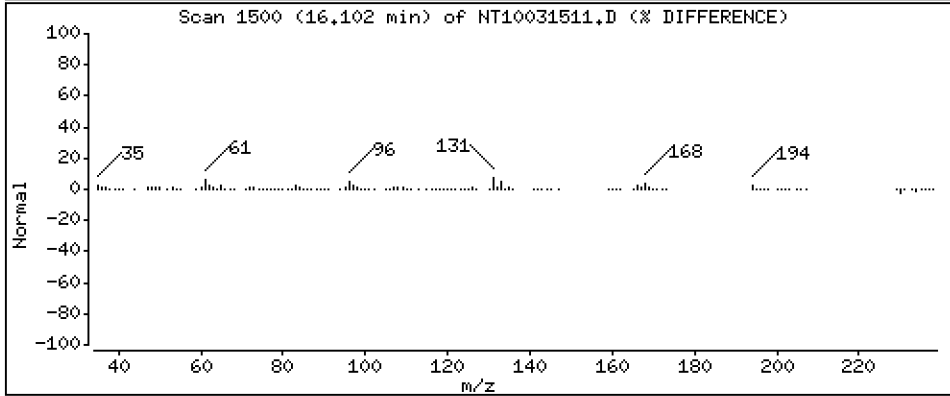
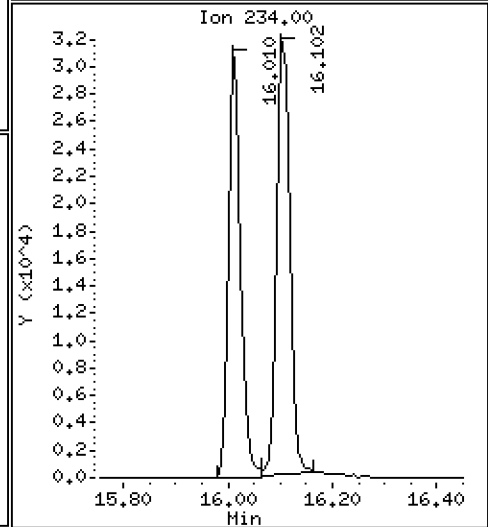
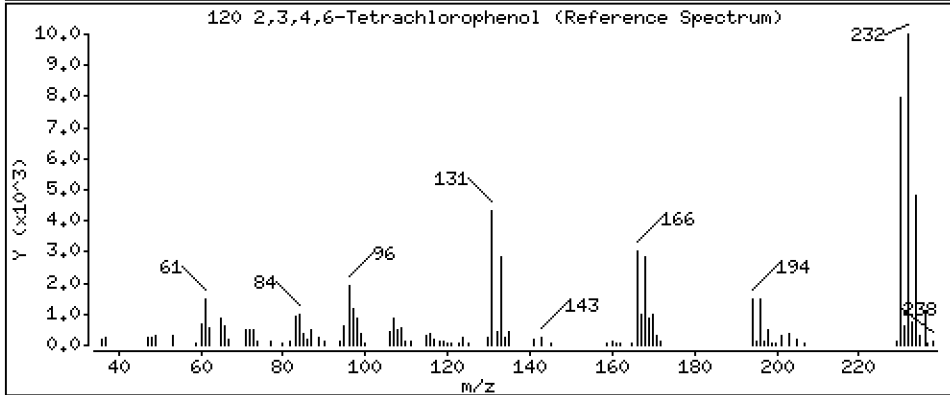
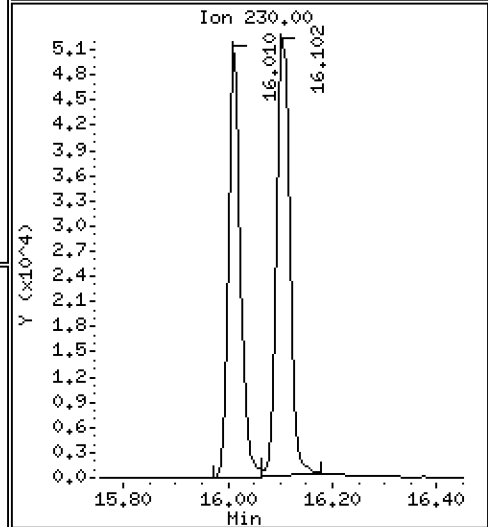
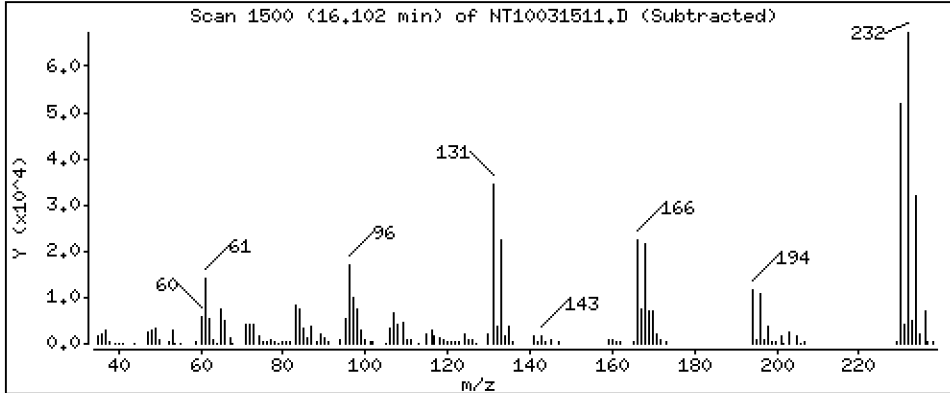
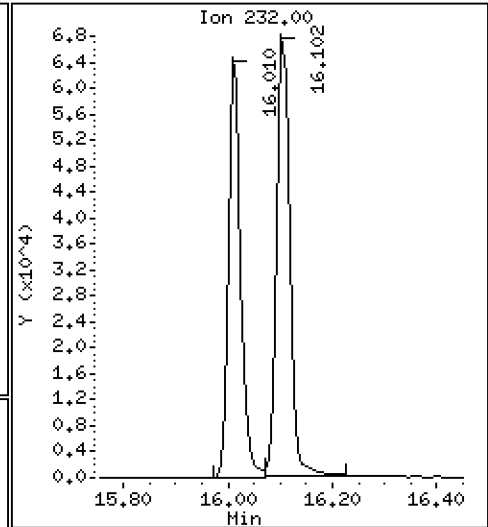
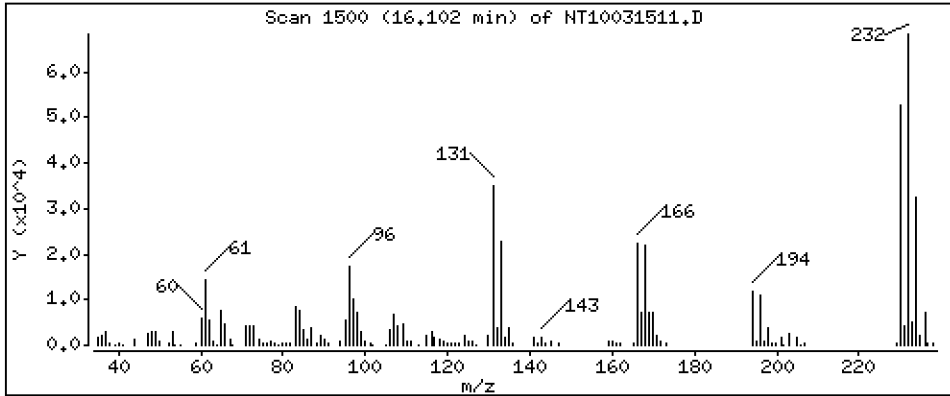
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,980 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031511.D  
 Lab Smp Id: SLC0228-SCV1  
 Inj Date : 16-MAR-2023 02:16  
 Operator : VTS Inst ID: nt10.i  
 Smp Info : SLC0228-SCV1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD  
 Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE               | CONCENTRATIONS |         |
|---------------------------------|-------|-----|--------|--------|---------|------------------------|----------------|---------|
|                                 |       |     |        |        |         |                        | ON-COLUMN      | FINAL   |
|                                 | MASS  |     |        |        |         |                        | (ug/mL)        | (ug/mL) |
| =====                           | ====  |     | ====   | =====  | =====   | =====                  | =====          | =====   |
| \$ 1 2-Fluorophenol             | 112   |     |        |        |         | Compound Not Detected. |                |         |
| \$ 2 Phenol-d5                  | 99    |     |        |        |         | Compound Not Detected. |                |         |
| 3 Phenol                        | 94    |     | 8.659  | 8.652  | (0.931) | 281600                 | 4.41237        | 4.412   |
| \$ 5 2-Chlorophenol-d4          | 132   |     |        |        |         | Compound Not Detected. |                |         |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.837  | 8.837  | (0.950) | 248892                 | 5.25818        | 5.258   |
| 6 2-Chlorophenol                | 128   |     | 8.960  | 8.961  | (0.963) | 233608                 | 4.27685        | 4.277   |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.239  | 9.231  | (0.993) | 275540                 | 4.77157        | 4.772   |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.301  | 9.293  | (1.000) | 154809                 | 4.00000        |         |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.332  | 9.325  | (1.003) | 274051                 | 4.91272        | 4.913   |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     |        |        |         | Compound Not Detected. |                |         |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.689  | 9.682  | (1.042) | 268028                 | 4.88215        | 4.882   |
| 11 Benzyl alcohol               | 108   |     | 9.557  | 9.557  | (1.028) | 147597                 | 4.92722        | 4.927   |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.860  | 9.860  | (1.060) | 100179                 | 6.21363        | 6.214   |
| 13 2-Methylphenol               | 108   |     | 9.775  | 9.767  | (1.051) | 196115                 | 4.21542        | 4.215   |
| 17 Hexachloroethane             | 117   |     | 10.279 | 10.271 | (1.105) | 114513                 | 5.00332        | 5.003   |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 10.116 | 10.108 | (1.088) | 190250                 | 5.17896        | 5.179   |
| 15 4-Methylphenol               | 108   |     | 10.046 | 10.031 | (1.080) | 213951                 | 4.36462        | 4.365   |
| \$ 18 Nitrobenzene-d5           | 82    |     |        |        |         | Compound Not Detected. |                |         |
| 19 Nitrobenzene                 | 77    |     | 10.426 | 10.419 | (0.885) | 274714                 | 4.85798        | 4.858   |
| 20 Isophorone                   | 82    |     | 10.861 | 10.861 | (0.922) | 556741                 | 7.69604        | 7.696   |
| 21 2-Nitrophenol                | 139   |     | 11.047 | 11.048 | (0.938) | 110302                 | 3.99452        | 3.995   |
| 22 2,4-Dimethylphenol           | 107   |     | 11.081 | 11.082 | (0.941) | 188638                 | 3.63181        | 3.632   |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.285 | 11.285 | (0.958) | 273219                 | 5.65409        | 5.654   |
| 24 Benzoic acid                 | 105   |     | 11.217 | 11.166 | (0.952) | 173961                 | 5.95241        | 5.952   |
| 25 2,4-Dichlorophenol           | 162   |     | 11.489 | 11.489 | (0.975) | 195480                 | 4.70301        | 4.703   |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.685 | 11.685 | (0.992) | 222176                 | 4.55366        | 4.554   |
| * 27 Naphthalene-d8             | 136   |     | 11.777 | 11.770 | (1.000) | 570882                 | 4.00000        |         |
| 28 Naphthalene                  | 128   |     | 11.816 | 11.816 | (1.003) | 713318                 | 4.71662        | 4.717   |
| 29 4-Chloroaniline              | 127   |     | 11.940 | 11.940 | (1.014) | 223402                 | 3.78650        | 3.787   |
| 30 Hexachlorobutadiene          | 225   |     | 12.171 | 12.172 | (1.033) | 138198                 | 4.83404        | 4.834   |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.876 | 12.876 | (1.093) | 208794                 | 4.64027        | 4.640   |
| 32 2-Methylnaphthalene          | 142   |     | 13.201 | 13.201 | (1.121) | 501627                 | 4.59617        | 4.596   |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.665 | 13.665 | (0.888) | 132827                 | 4.72902        | 4.729   |

| Compounds                         | QUANT | SIG |                        |        |         |        |          | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|------------------------|--------|---------|--------|----------|----------------------|------------------|
|                                   |       |     | MASS                   | RT     | EXP RT  | REL RT | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     | 13.820                 | 13.820 | (0.898) | 137849 | 4.59559  | 4.596                |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     | 13.889                 | 13.890 | (0.903) | 146935 | 4.40855  | 4.409                |                  |
| § 36 2-Fluorobiphenyl             | 172   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 37 2-Chloronaphthalene            | 162   |     | 14.199                 | 14.191 | (0.923) | 466196 | 4.79589  | 4.796                |                  |
| 38 2-Nitroaniline                 | 65    |     | 14.454                 | 14.447 | (0.940) | 134108 | 4.91137  | 4.911                |                  |
| 39 Dimethylphthalate              | 163   |     | 14.880                 | 14.873 | (0.967) | 486790 | 4.93747  | 4.937                |                  |
| 40 Acenaphthylene                 | 152   |     | 15.074                 | 15.066 | (0.980) | 727839 | 4.80509  | 4.805                |                  |
| 41 2,6-Dinitrotoluene             | 165   |     | 15.020                 | 15.012 | (0.976) | 112840 | 5.29815  | 5.298                |                  |
| * 42 Acenaphthene-d10             | 164   |     | 15.383                 | 15.383 | (1.000) | 303490 | 4.00000  |                      |                  |
| 43 3-Nitroaniline                 | 138   |     | 15.306                 | 15.298 | (0.995) | 120530 | 5.01393  | 5.014                |                  |
| 44 Acenaphthene                   | 153   |     | 15.453                 | 15.445 | (1.005) | 446914 | 4.77589  | 4.776                |                  |
| 45 2,4-Dinitrophenol              | 184   |     | 15.515                 | 15.515 | (1.009) | 27409  | 2.12395  | 2.124                |                  |
| 46 Dibenzofuran                   | 168   |     | 15.777                 | 15.770 | (1.026) | 641379 | 4.64790  | 4.648                |                  |
| 47 4-Nitrophenol                  | 109   |     | 15.600                 | 15.592 | (1.014) | 59816  | 3.96568  | 3.966                |                  |
| 48 2,4-Dinitrotoluene             | 165   |     | 15.824                 | 15.817 | (1.029) | 144262 | 4.51019  | 4.510                |                  |
| 50 Diethylphthalate               | 149   |     | 16.326                 | 16.319 | (1.061) | 503887 | 5.20905  | 5.209                |                  |
| 49 Fluorene                       | 166   |     | 16.489                 | 16.481 | (1.072) | 511113 | 4.70796  | 4.708                |                  |
| 51 4-Chlorophenyl-phenylether     | 204   |     | 16.473                 | 16.466 | (1.071) | 257762 | 4.99294  | 4.993                |                  |
| 52 4-Nitroaniline                 | 138   |     | 16.566                 | 16.566 | (1.077) | 106701 | 4.92532  | 4.925                |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     | 16.666                 | 16.658 | (0.905) | 56867  | 3.51509  | 3.515                |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     | 16.720                 | 16.712 | (0.908) | 342454 | 4.80180  | 4.802                |                  |
| § 55 2,4,6-Tribromophenol         | 330   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 56 4-Bromophenyl-phenylether      | 248   |     | 17.475                 | 17.476 | (0.949) | 150956 | 5.05964  | 5.060                |                  |
| 57 Hexachlorobenzene              | 284   |     | 17.800                 | 17.793 | (0.966) | 143751 | 4.59553  | 4.596                |                  |
| 58 Pentachlorophenol              | 266   |     | 18.149                 | 18.149 | (0.985) | 75635  | 4.05676  | 4.057                |                  |
| * 59 Phenanthrene-d10             | 188   |     | 18.420                 | 18.420 | (1.000) | 533431 | 4.00000  |                      |                  |
| 60 Phenanthrene                   | 178   |     | 18.466                 | 18.466 | (1.003) | 669357 | 4.60181  | 4.602                |                  |
| 61 Anthracene                     | 178   |     | 18.559                 | 18.559 | (1.008) | 581438 | 4.16715  | 4.167                |                  |
| 62 Carbazole                      | 167   |     | 18.884                 | 18.884 | (1.025) | 591382 | 4.72989  | 4.730                |                  |
| 63 Di-n-butylphthalate            | 149   |     | 19.665                 | 19.666 | (1.068) | 830680 | 4.96738  | 4.967                |                  |
| 64 Fluoranthene                   | 202   |     | 20.841                 | 20.841 | (0.888) | 782432 | 4.47248  | 4.472                |                  |
| 65 Pyrene                         | 202   |     | 21.267                 | 21.267 | (0.907) | 778668 | 4.33892  | 4.339                |                  |
| § 66 Terphenyl-d14                | 244   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 67 Butylbenzylphthalate           | 149   |     | 22.459                 | 22.460 | (0.957) | 314007 | 4.83397  | 4.834                |                  |
| 68 Benzo(a)anthracene             | 228   |     | 23.427                 | 23.419 | (0.999) | 714166 | 4.64722  | 4.647                |                  |
| * 69 Chrysene-d12                 | 240   |     | 23.458                 | 23.450 | (1.000) | 435381 | 4.00000  |                      |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     | 23.373                 | 23.373 | (0.996) | 483256 | 9.81738  | 9.817                |                  |
| 71 Chrysene                       | 228   |     | 23.497                 | 23.489 | (1.002) | 677151 | 4.51017  | 4.510                |                  |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 23.481                 | 23.474 | (0.959) | 453669 | 4.67998  | 4.680                |                  |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 24.487                 | 24.480 | (1.000) | 660827 | 4.00000  |                      |                  |
| 73 Di-n-octylphthalate            | 149   |     | 24.495                 | 24.488 | (1.000) | 855562 | 4.94734  | 4.947                |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 25.370                 | 25.362 | (0.969) | 737887 | 4.60200  | 4.602 (H)            |                  |
| 75 Benzo(k)fluoranthene           | 252   |     | 25.416                 | 25.409 | (0.970) | 797521 | 4.89839  | 4.898                |                  |
| 76 Benzo(a)pyrene                 | 252   |     | 26.067                 | 26.052 | (0.995) | 698616 | 4.87338  | 4.873                |                  |
| * 77 Perylene-d12                 | 264   |     | 26.191                 | 26.183 | (1.000) | 494648 | 4.00000  |                      |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 29.005                 | 28.990 | (1.107) | 834672 | 4.57655  | 4.577                |                  |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 29.021                 | 29.005 | (1.108) | 688433 | 4.54663  | 4.547                |                  |
| 80 Benzo(g,h,i)perylene           | 276   |     | 29.852                 | 29.821 | (1.140) | 724463 | 4.59000  | 4.590                |                  |
| 90 N-Nitrosodimethylamine         | 74    |     | 4.928                  | 4.936  | (0.530) | 155126 | 5.19378  | 5.194                |                  |
| 91 Aniline                        | 93    |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 93 Benzidine                      | 184   |     | 21.073                 | 21.066 | (0.898) | 314737 | 4.37985  | 4.380                |                  |
| 103 Pyridine                      | 79    |     | 4.959                  | 4.997  | (0.533) | 244801 | 5.33678  | 5.337                |                  |
| 105 1-methylnaphthalene           | 142   |     | 13.425                 | 13.425 | (1.140) | 487498 | 4.87520  | 4.875                |                  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     | 16.797                 | 16.789 | (1.092) | 533524 | 4.93744  | 4.937                |                  |



| Compounds                     | QUANT SIG |  | CONCENTRATIONS |        |         |          |                      |                  |
|-------------------------------|-----------|--|----------------|--------|---------|----------|----------------------|------------------|
|                               | MASS      |  | RT             | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| =====                         | =====     |  | =====          | =====  | =====   | =====    | =====                | =====            |
| 187 Total Benzofluoranthenes  | 252       |  | 25.370         | 25.409 | (0.969) | 1468165  | 9.48349              | 9.483            |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 16.102         | 16.103 | (1.047) | 124685   | 3.97959              | 3.980            |

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023  
 Lab File ID: NT10031511.D Calibration Time: 21:50  
 Lab Smp Id: SLC0228-SCV1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 171542   | 85771      | 343084  | 154809 | -9.75  |
| 27 Naphthalene-d8     | 624466   | 312233     | 1248932 | 570882 | -8.58  |
| 42 Acenaphthene-d10   | 337226   | 168613     | 674452  | 303490 | -10.00 |
| 59 Phenanthrene-d10   | 572849   | 286425     | 1145698 | 533431 | -6.88  |
| 69 Chrysene-d12       | 347068   | 173534     | 694136  | 435381 | 25.45  |
| 134 Di-n-octylphthala | 500317   | 250159     | 1000634 | 660827 | 32.08  |
| 77 Perylene-d12       | 421549   | 210775     | 843098  | 494648 | 17.34  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.30     | 8.80     | 9.80  | 9.30   | -0.00 |
| 27 Naphthalene-d8     | 11.78    | 11.28    | 12.28 | 11.78  | 0.01  |
| 42 Acenaphthene-d10   | 15.38    | 14.88    | 15.88 | 15.38  | 0.00  |
| 59 Phenanthrene-d10   | 18.42    | 17.92    | 18.92 | 18.42  | 0.00  |
| 69 Chrysene-d12       | 23.45    | 22.95    | 23.95 | 23.46  | 0.04  |
| 134 Di-n-octylphthala | 24.48    | 23.98    | 24.98 | 24.49  | 0.03  |
| 77 Perylene-d12       | 26.18    | 25.68    | 26.68 | 26.19  | 0.03  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT10031511.D

Lab ID: SLC0228-SCV1  
nt10.i, 20230315.b\ABN.m, 16-MAR-2023 02:16

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

\*\* FIRST SURROGATE NOT FOUND. ICAL Check not performed \*\*

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND     |
|-------|---------|--------|--------------|
| 0.952 | 0.000   | 0.9524 | Benzoic acid |

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*



**SECOND-SOURCE  
CALIBRATION VERIFICATION**

**EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-SCV1

**Sequence:** SLB0374

**Standard ID:** K010066

| ANALYTE                      | EXPECTED<br>(ug/mL) | FOUND<br>(ug/mL) | % DRIFT | QC LIMIT |
|------------------------------|---------------------|------------------|---------|----------|
| Phenol                       | 5.0000              | 3.9              | -21.3 * | 20.00    |
| bis(2-chloroethyl) ether     | 5.0000              | 5.2              | 4.7     | 20.00    |
| 2-Chlorophenol               | 5.0000              | 4.6              | -7.4    | 20.00    |
| 1,3-Dichlorobenzene          | 5.0000              | 4.8              | -4.1    | 20.00    |
| 1,4-Dichlorobenzene          | 5.0000              | 4.8              | -4.0    | 20.00    |
| 1,2-Dichlorobenzene          | 5.0000              | 4.8              | -3.9    | 20.00    |
| Benzyl Alcohol               | 5.0000              | 4.3              | -13.9   | 20.00    |
| 2,2'-Oxybis(1-chloropropane) | 5.0000              | 5.5              | 10.2    | 20.00    |
| 2-Methylphenol               | 5.0000              | 4.4              | -11.9   | 20.00    |
| Hexachloroethane             | 5.0000              | 5.1              | 1.8     | 20.00    |
| N-Nitroso-di-n-Propylamine   | 5.0000              | 5.1              | 2.8     | 20.00    |
| 4-Methylphenol               | 5.0000              | 4.2              | -15.6   | 20.00    |
| Nitrobenzene                 | 5.0000              | 5.1              | 1.2     | 20.00    |
| Isophorone                   | 5.0000              | 6.4              | 28.2 *  | 20.00    |
| 2-Nitrophenol                | 5.0000              | 4.1              | -17.5   | 20.00    |
| 2,4-Dimethylphenol           | 5.0000              | 3.9              | -22.2 * | 20.00    |
| Bis(2-Chloroethoxy)methane   | 5.0000              | 5.8              | 15.3    | 20.00    |
| 2,4-Dichlorophenol           | 5.0000              | 4.8              | -4.3    | 20.00    |
| 1,2,4-Trichlorobenzene       | 5.0000              | 4.8              | -4.2    | 20.00    |
| Naphthalene                  | 5.0000              | 4.8              | -4.7    | 20.00    |
| Benzoic acid                 | 10.0000             | 4.1              | -59.3 * | 20.00    |
| 4-Chloroaniline              | 5.0000              | 3.9              | -22.1 * | 20.00    |
| Hexachlorobutadiene          | 5.0000              | 4.8              | -3.9    | 20.00    |
| 4-Chloro-3-Methylphenol      | 5.0000              | 4.9              | -2.8    | 20.00    |
| 2-Methylnaphthalene          | 5.0000              | 4.6              | -7.5    | 20.00    |
| Hexachlorocyclopentadiene    | 5.0000              | 4.5              | -9.3    | 20.00    |
| 2,4,6-Trichlorophenol        | 5.0000              | 4.8              | -4.2    | 20.00    |
| 2,4,5-Trichlorophenol        | 5.0000              | 4.7              | -6.6    | 20.00    |
| 2-Chloronaphthalene          | 5.0000              | 4.9              | -1.8    | 20.00    |
| 2-Nitroaniline               | 5.0000              | 5.0              | -0.4    | 20.00    |
| Acenaphthylene               | 5.0000              | 5.0              | -0.5    | 20.00    |
| Dimethylphthalate            | 5.0000              | 5.2              | 4.1     | 20.00    |



**SECOND-SOURCE  
CALIBRATION VERIFICATION**

**EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-SCV1

**Sequence:** SLB0374

**Standard ID:** K010066

|                             |        |      |         |       |
|-----------------------------|--------|------|---------|-------|
| 2,6-Dinitrotoluene          | 5.0000 | 5.2  | 4.5     | 20.00 |
| Acenaphthene                | 5.0000 | 4.8  | -4.7    | 20.00 |
| 3-Nitroaniline              | 5.0000 | 4.9  | -2.6    | 20.00 |
| 2,4-Dinitrophenol           | 5.0000 | 1.0  | -80.4 * | 20.00 |
| Dibenzofuran                | 5.0000 | 4.7  | -5.6    | 20.00 |
| 4-Nitrophenol               | 5.0000 | 3.9  | -21.3 * | 20.00 |
| 2,4-Dinitrotoluene          | 5.0000 | 4.9  | -1.2    | 20.00 |
| Fluorene                    | 5.0000 | 4.8  | -4.1    | 20.00 |
| 4-Chlorophenylphenyl ether  | 5.0000 | 4.9  | -2.3    | 20.00 |
| Diethyl phthalate           | 5.0000 | 5.4  | 8.4     | 20.00 |
| 4-Nitroaniline              | 5.0000 | 4.6  | -8.8    | 20.00 |
| 4,6-Dinitro-2-methylphenol  | 5.0000 | 3.2  | -35.3 * | 20.00 |
| N-Nitrosodiphenylamine      | 5.0000 | 5.0  | -0.4    | 20.00 |
| 4-Bromophenyl phenyl ether  | 5.0000 | 5.2  | 3.0     | 20.00 |
| Hexachlorobenzene           | 5.0000 | 4.8  | -4.2    | 20.00 |
| Pentachlorophenol           | 5.0000 | 3.5  | -29.5 * | 20.00 |
| Phenanthrene                | 5.0000 | 4.6  | -7.7    | 20.00 |
| Anthracene                  | 5.0000 | 4.2  | -15.5   | 20.00 |
| Carbazole                   | 5.0000 | 4.8  | -4.5    | 20.00 |
| Di-n-Butylphthalate         | 5.0000 | 4.8  | -3.6    | 20.00 |
| Fluoranthene                | 5.0000 | 5.1  | 2.1     | 20.00 |
| Pyrene                      | 5.0000 | 5.0  | -0.9    | 20.00 |
| Butylbenzylphthalate        | 5.0000 | 5.0  | -0.7    | 20.00 |
| Benzo(a)anthracene          | 5.0000 | 4.9  | -1.7    | 20.00 |
| 3,3'-Dichlorobenzidine      | 10.000 | 10.3 | 2.9     | 20.00 |
| Chrysene                    | 5.0000 | 4.6  | -8.9    | 20.00 |
| bis(2-Ethylhexyl)phthalate  | 5.0000 | 5.3  | 5.5     | 20.00 |
| Di-n-Octylphthalate         | 5.0000 | 5.2  | 3.7     | 20.00 |
| Benzo(a)fluoranthene, Total | 10.000 | 9.6  | -4.4    | 20.00 |
| Benzo(a)pyrene              | 5.0000 | 4.9  | -2.3    | 20.00 |
| Indeno(1,2,3-cd)pyrene      | 5.0000 | 4.9  | -2.2    | 20.00 |
| Dibenzo(a,h)anthracene      | 5.0000 | 4.9  | -1.9    | 20.00 |
| Benzo(g,h,i)perylene        | 5.0000 | 4.9  | -2.8    | 20.00 |
| 1-Methylnaphthalene         | 5.0000 | 4.9  | -2.6    | 20.00 |

\* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022812.D

Date: 28-FEB-2023 17:41

Client ID:

Sample Info: SLB0374-SCV1

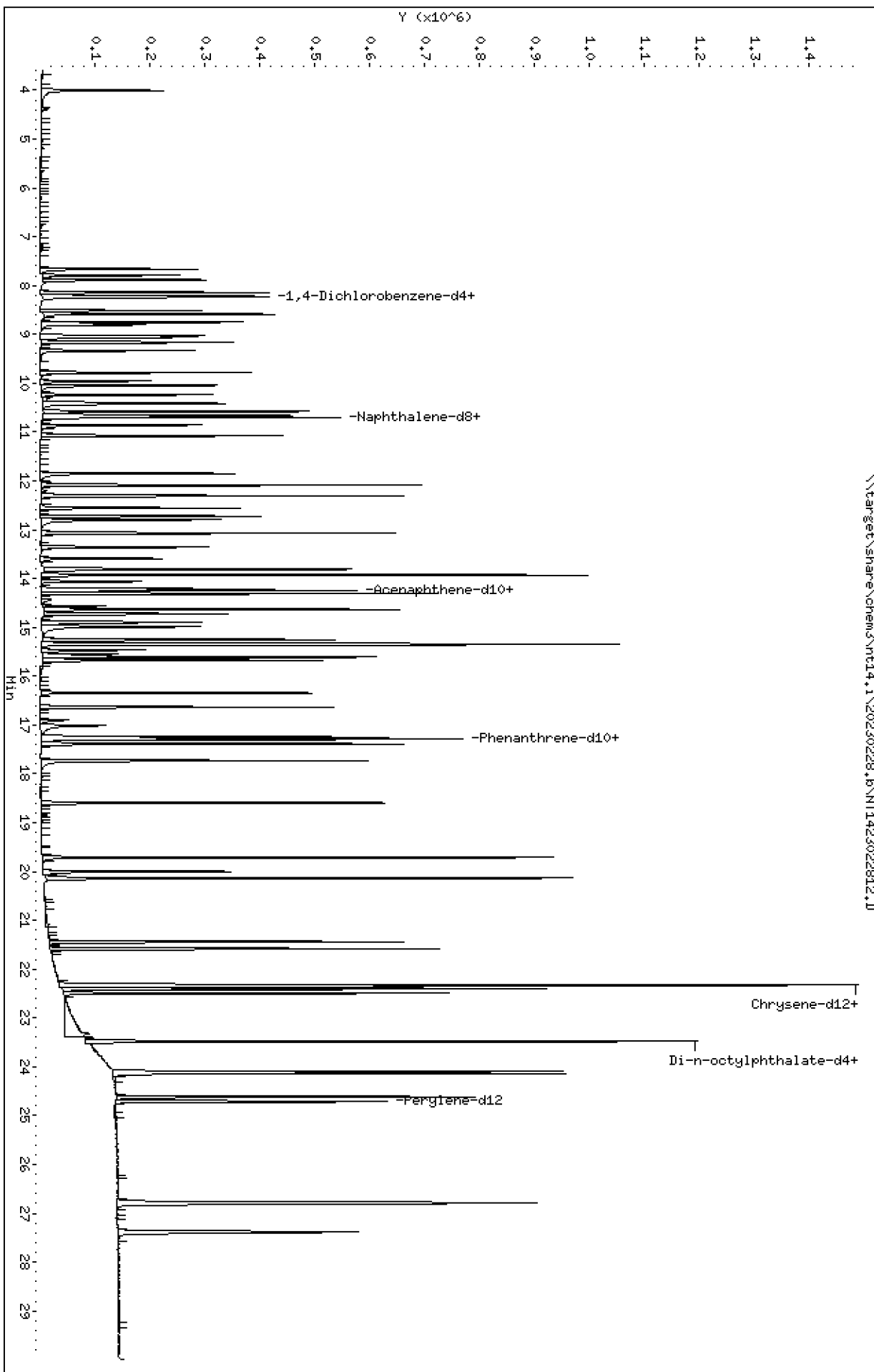
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022812.D



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

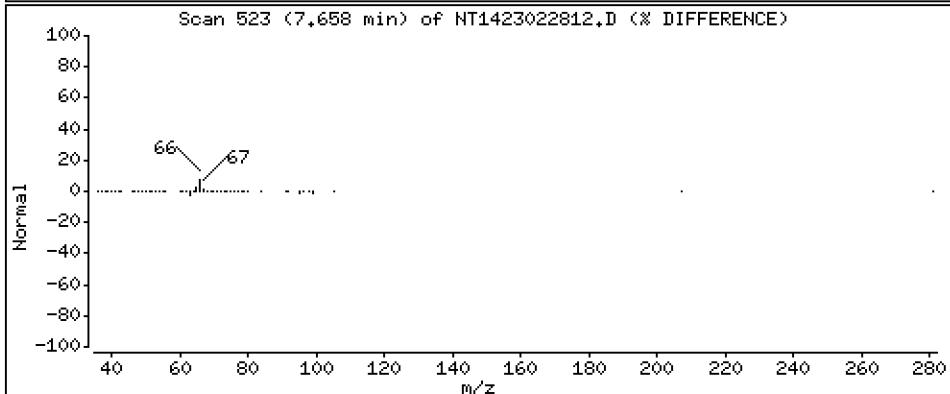
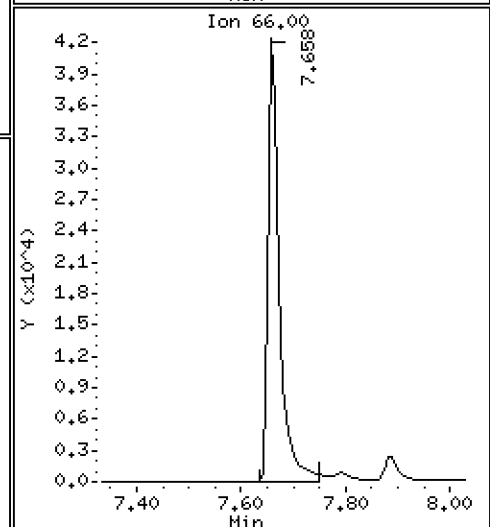
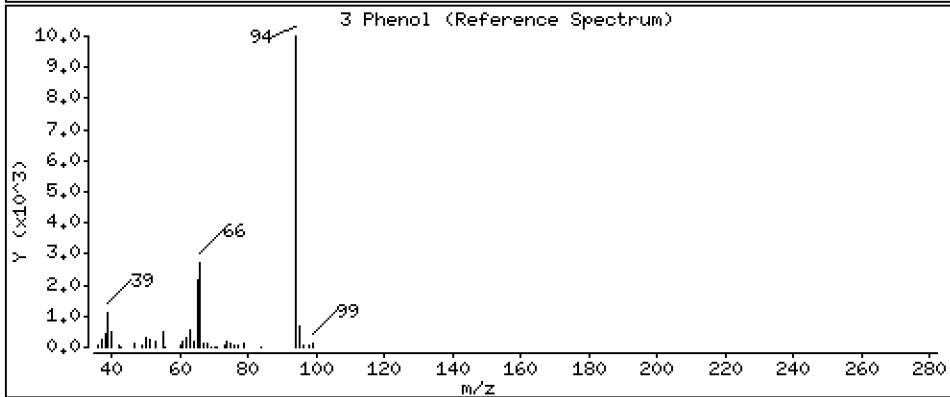
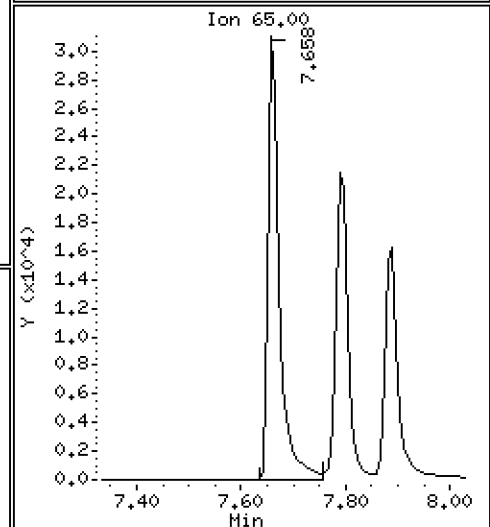
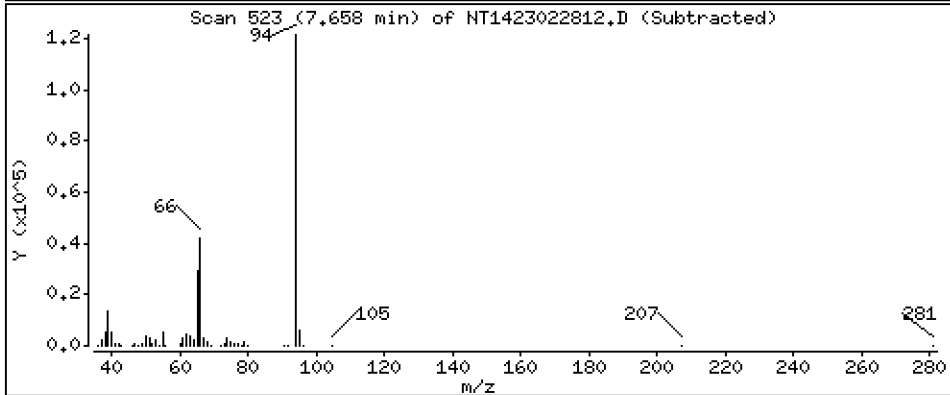
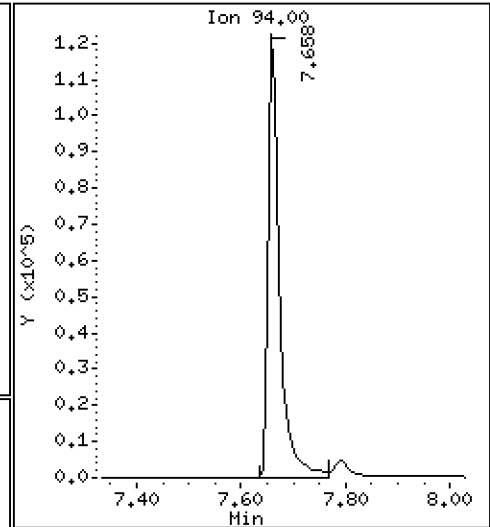
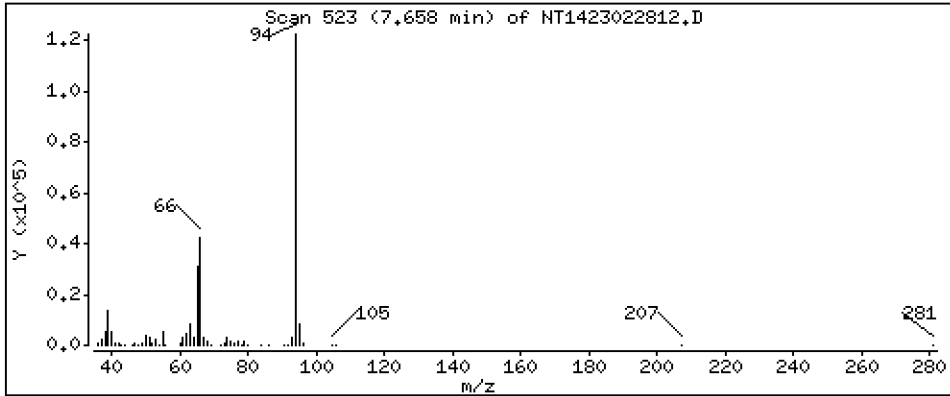
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 3.935 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

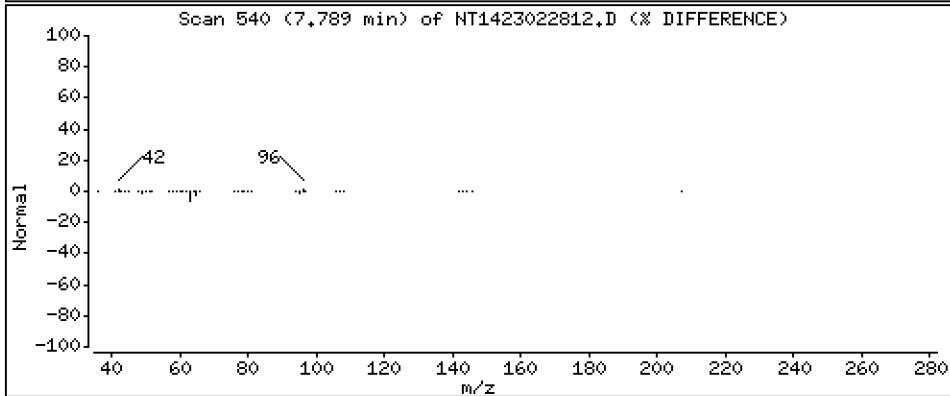
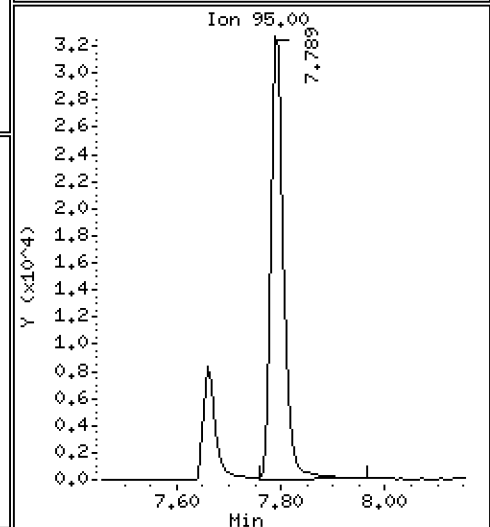
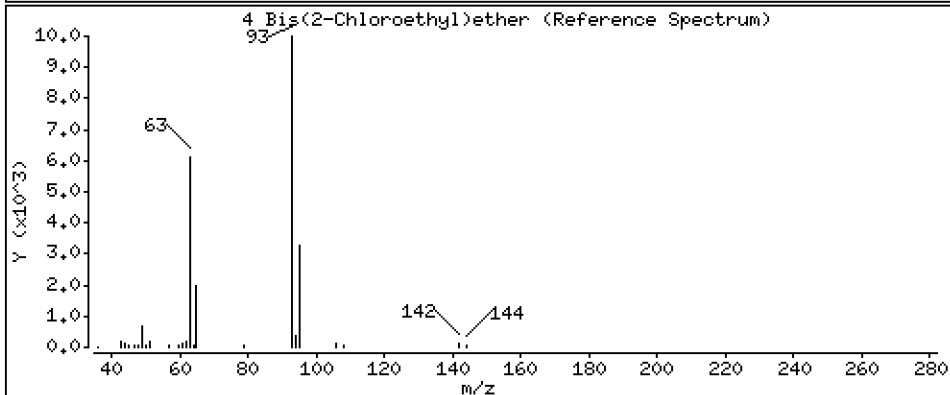
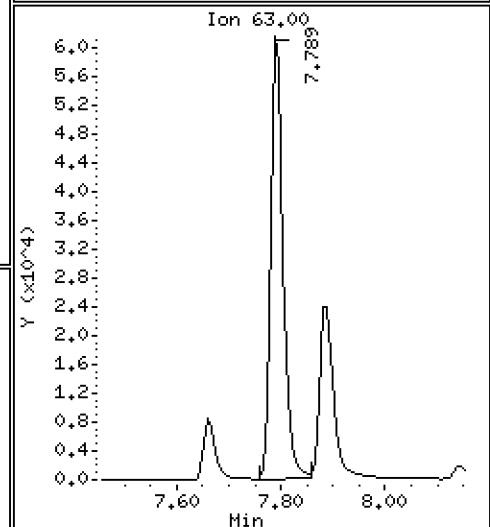
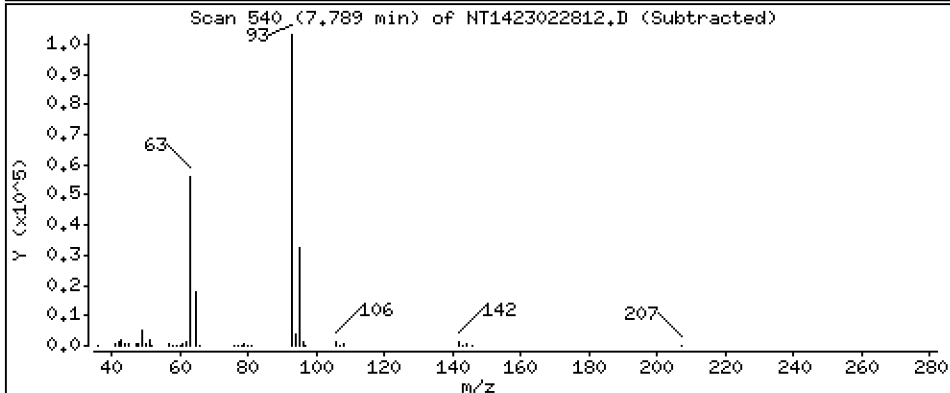
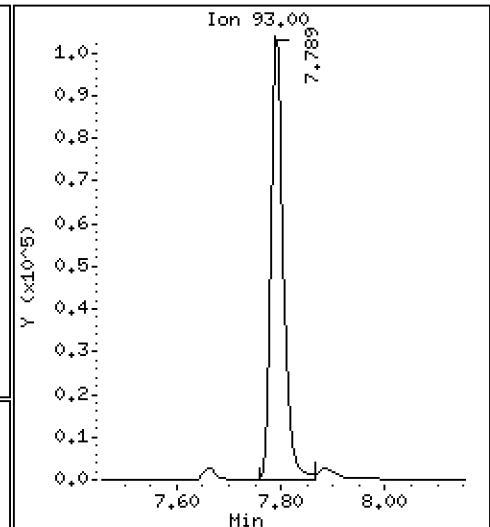
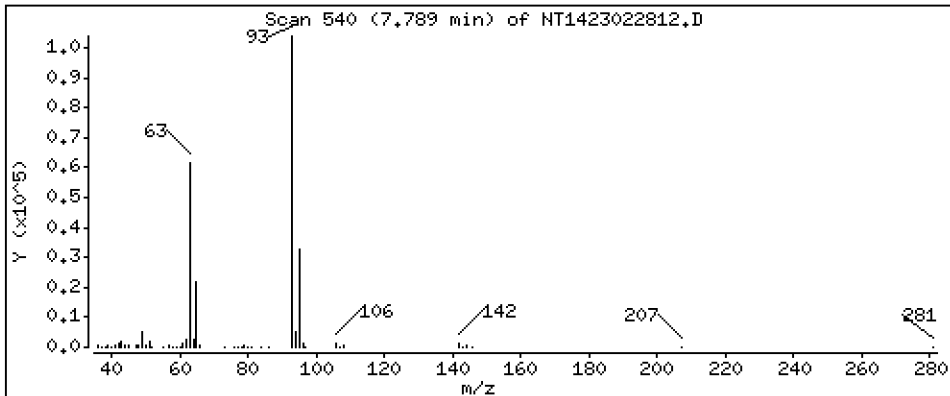
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 5.224 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

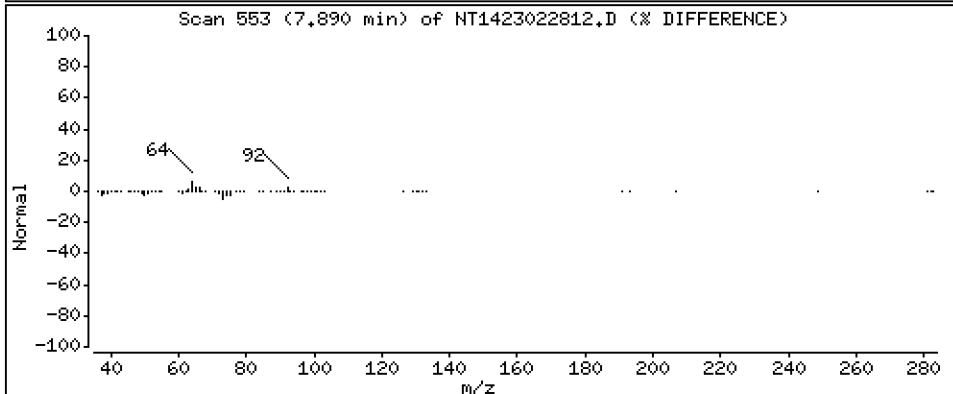
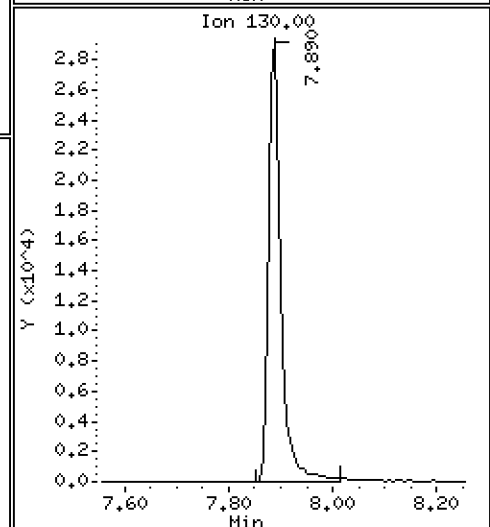
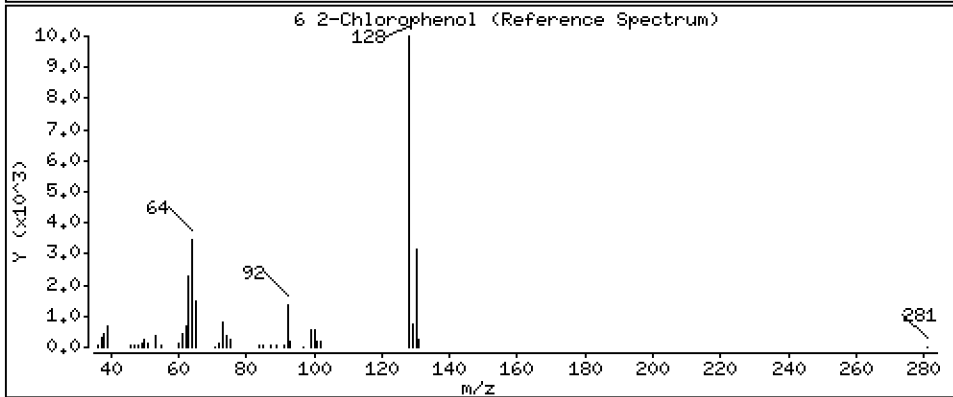
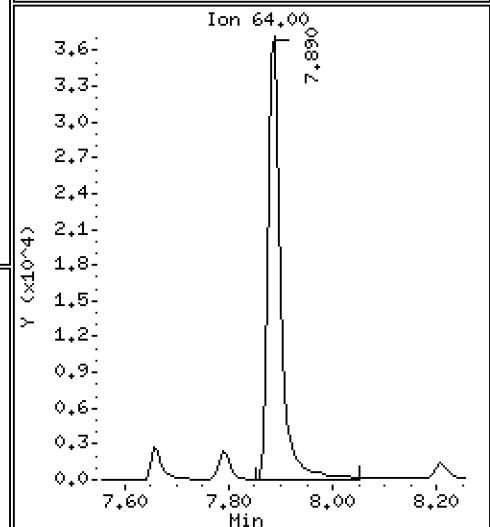
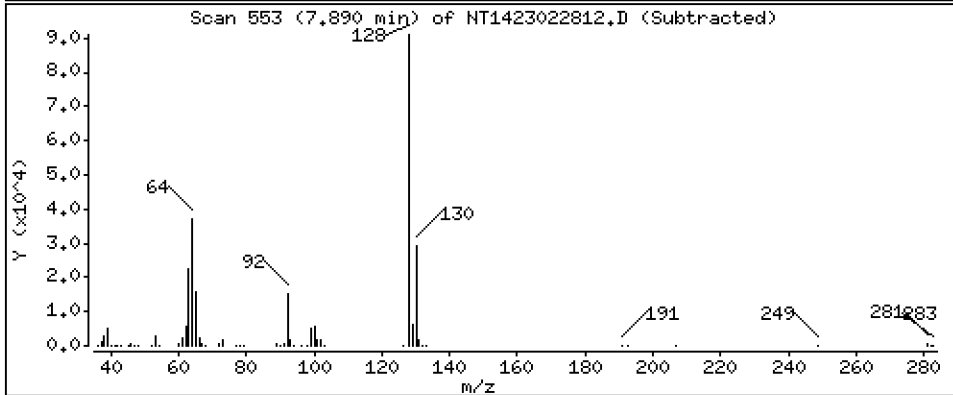
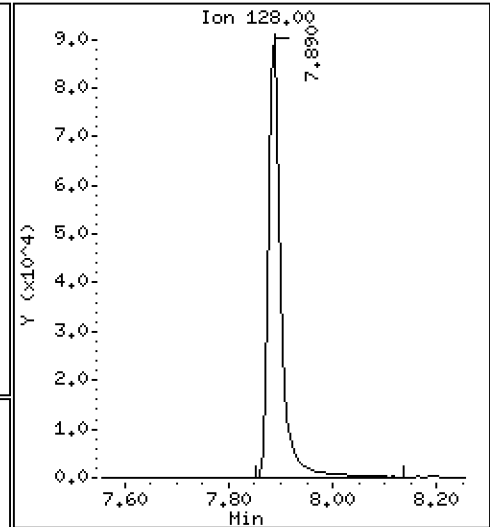
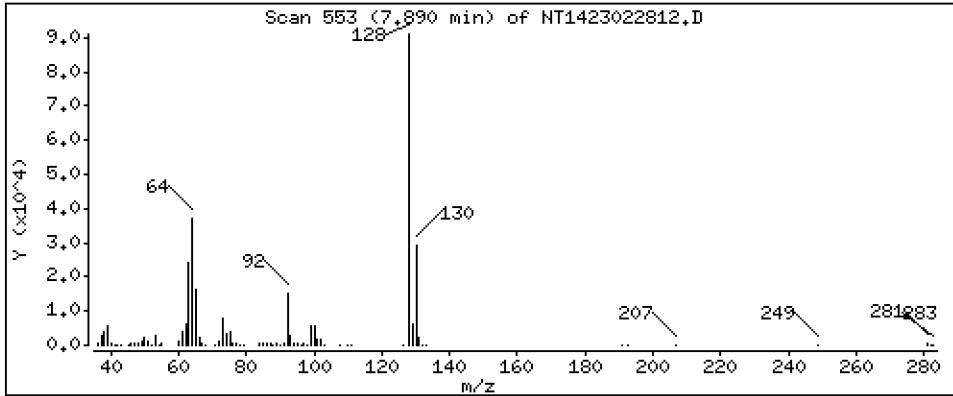
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,632 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

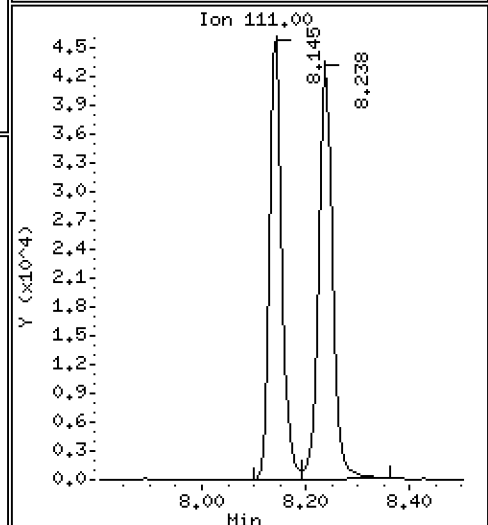
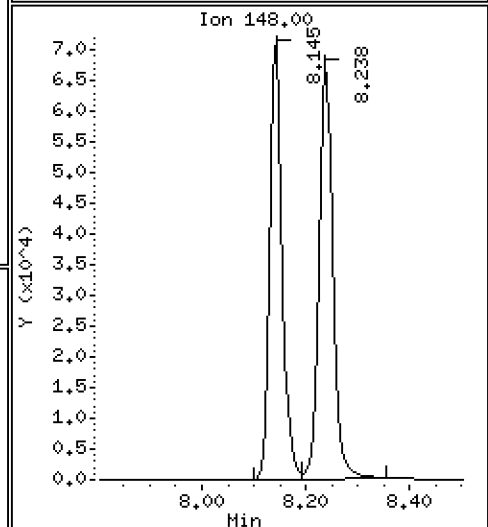
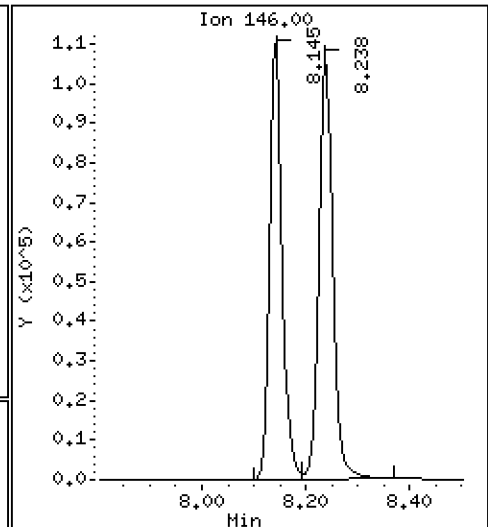
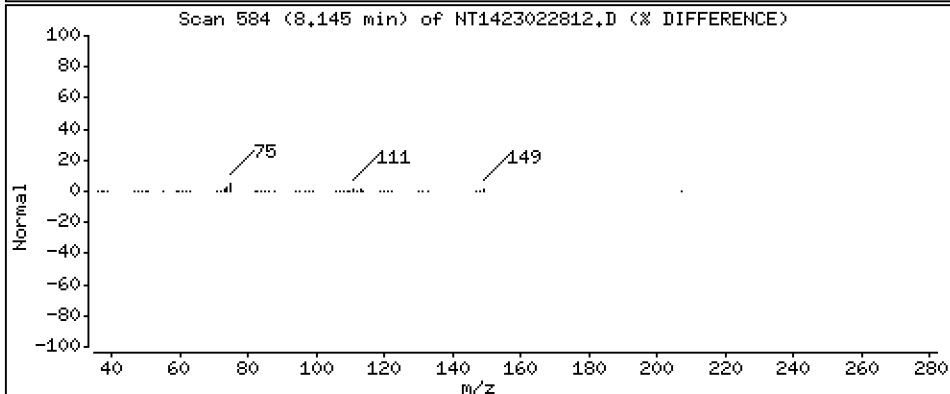
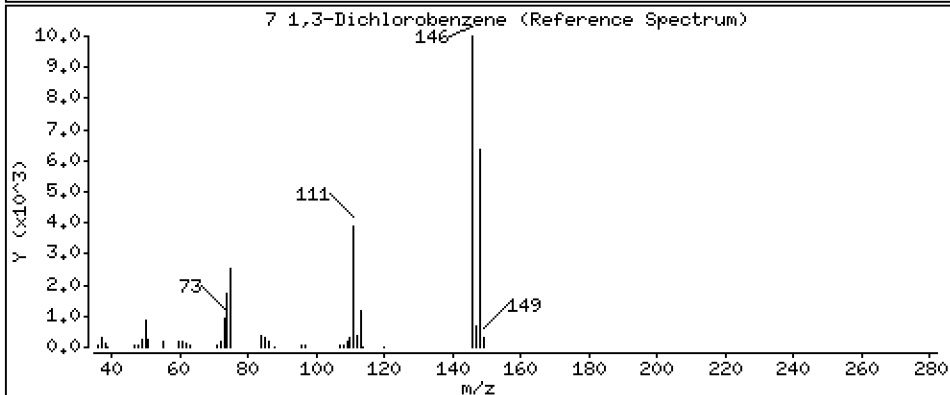
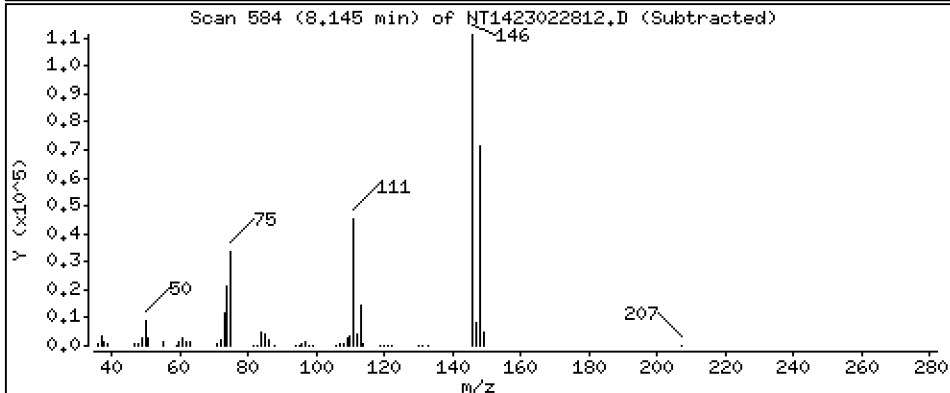
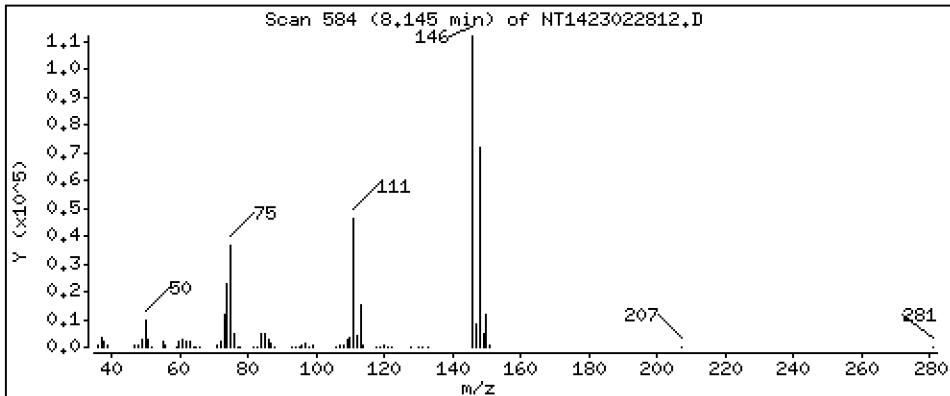
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 4,795 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

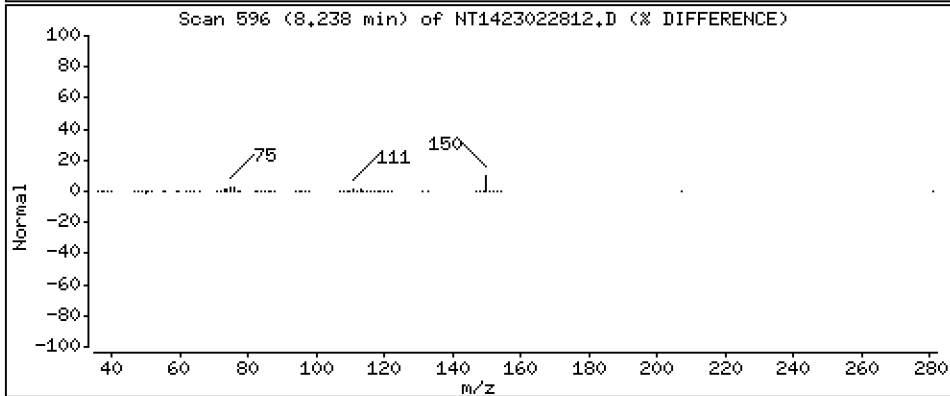
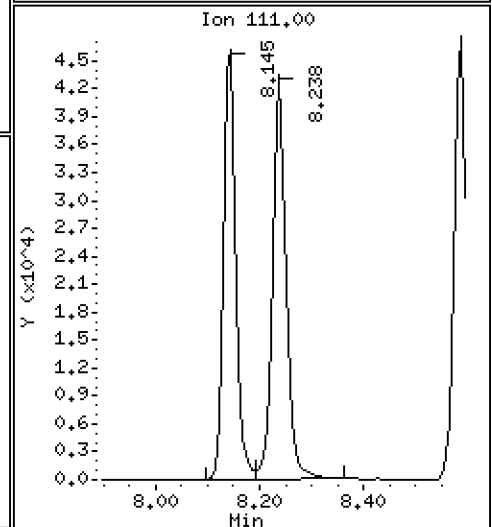
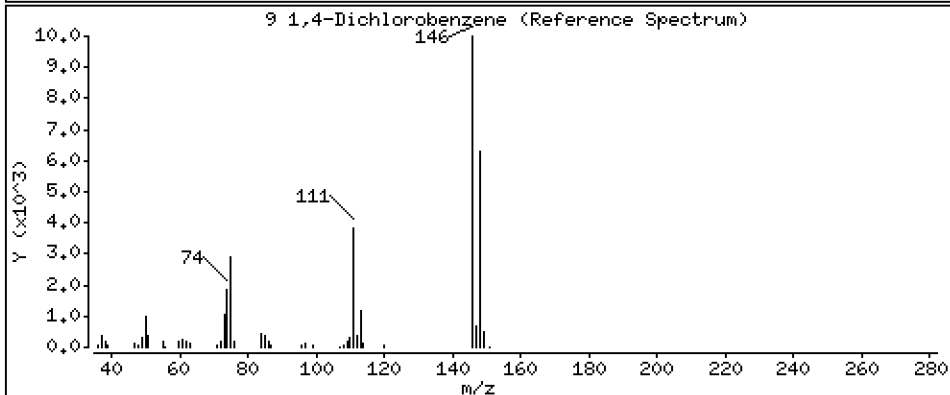
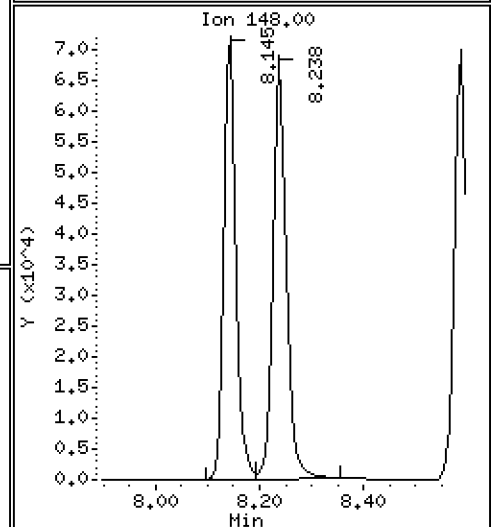
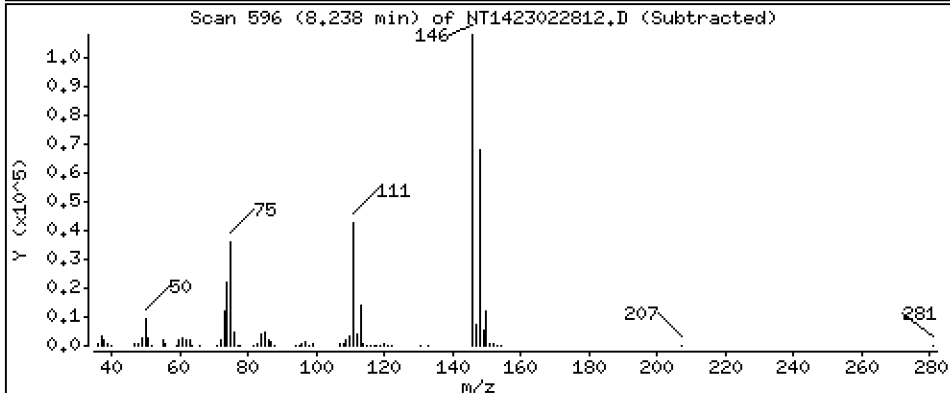
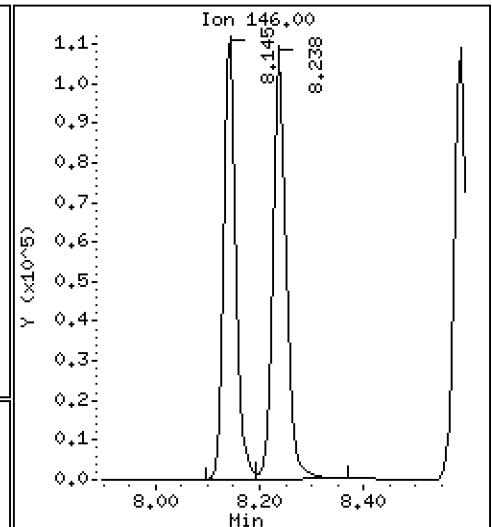
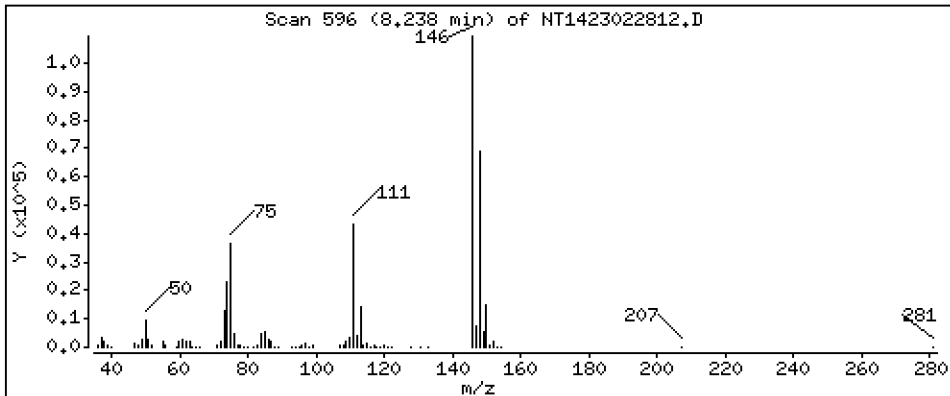
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,800 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

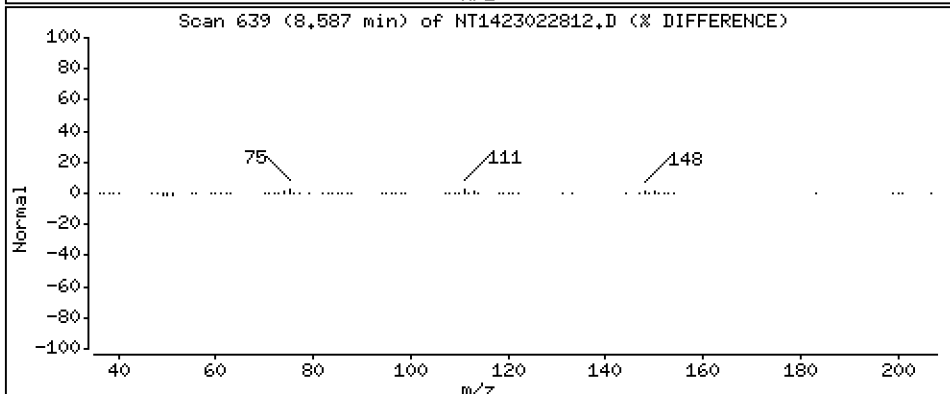
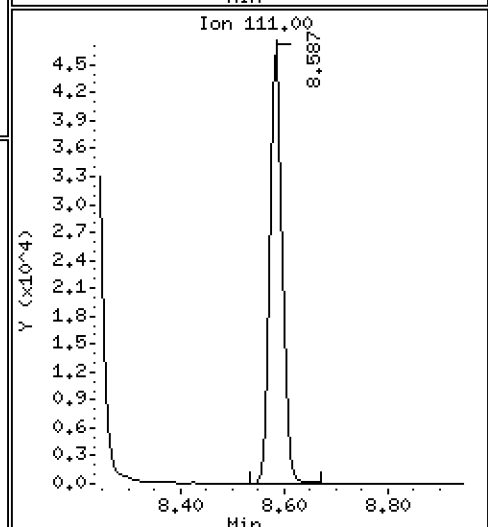
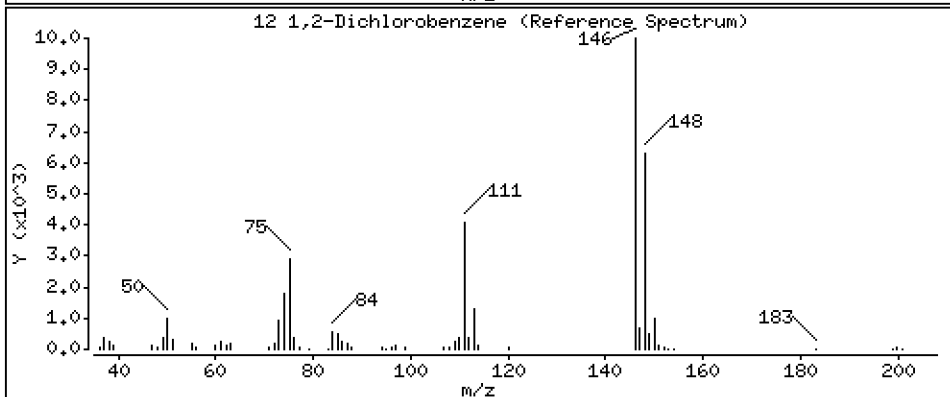
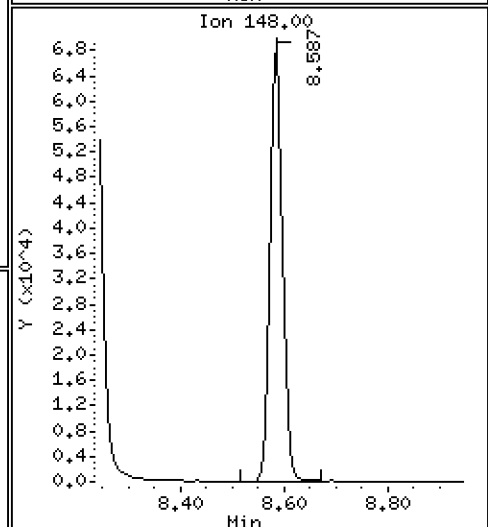
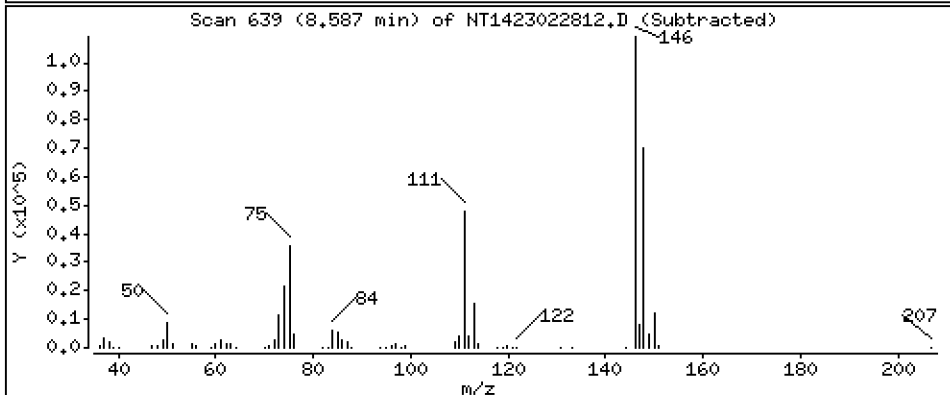
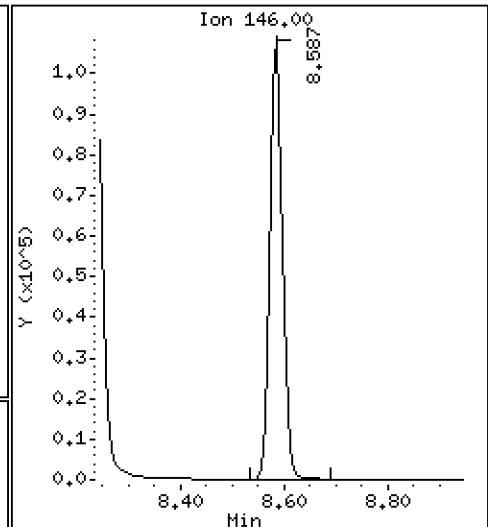
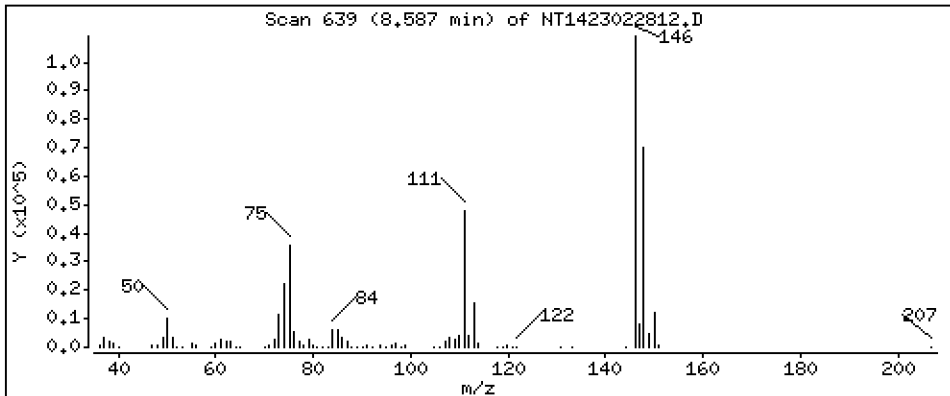
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,807 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

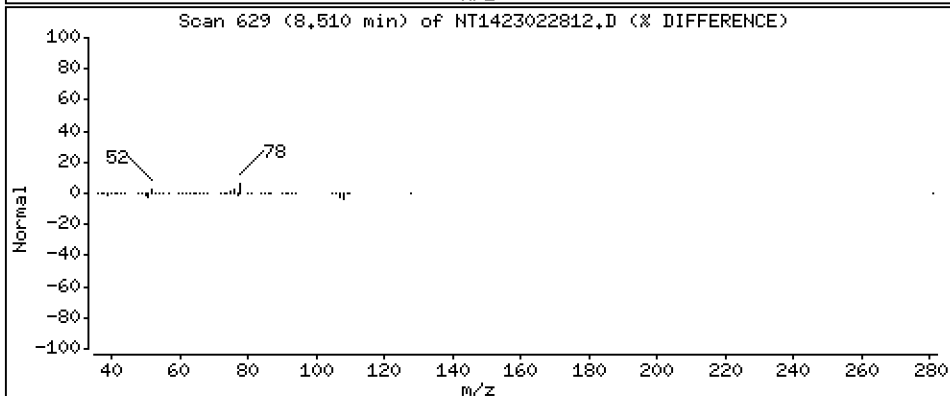
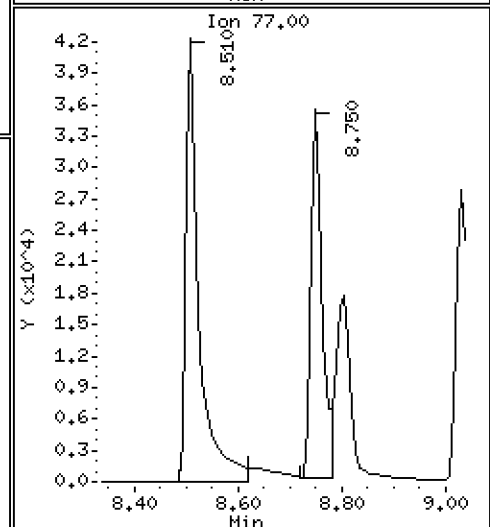
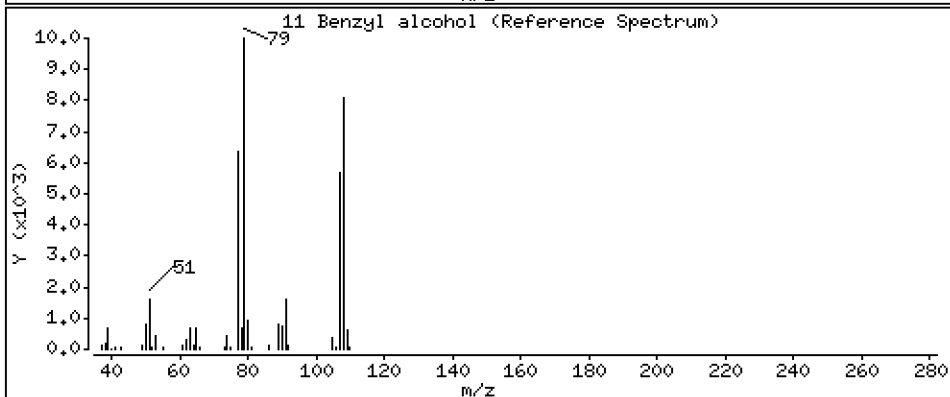
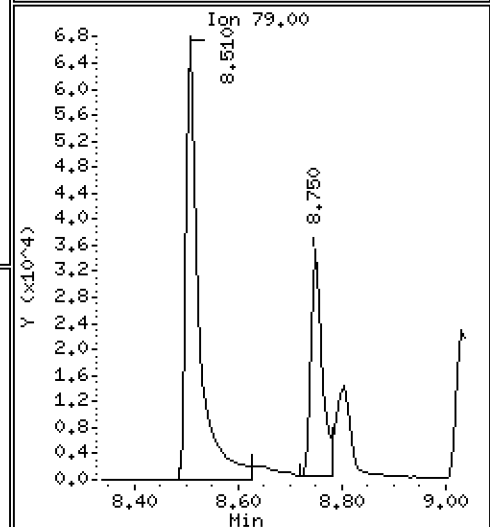
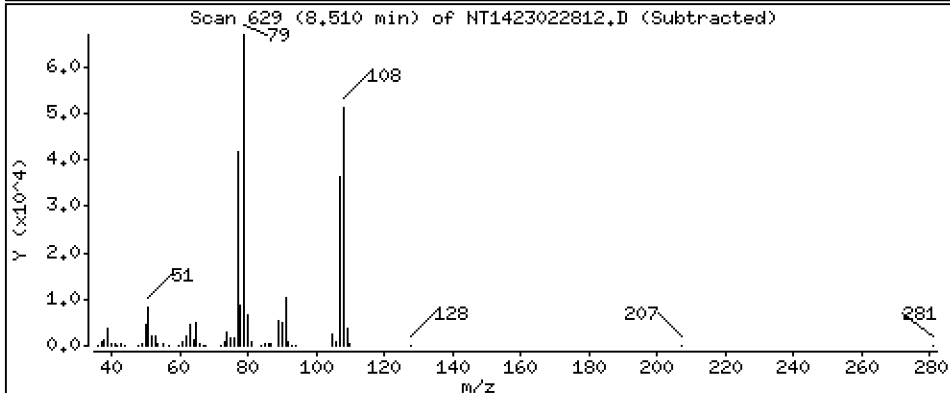
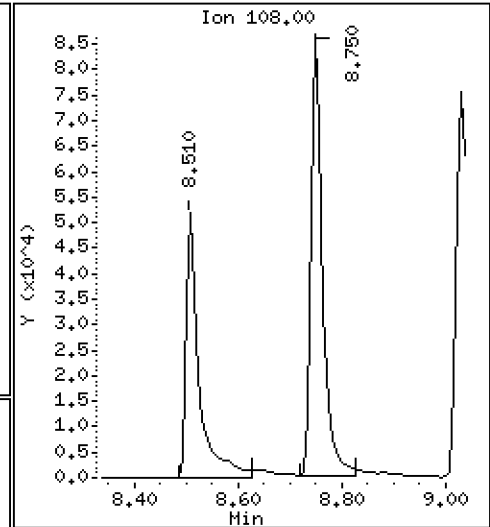
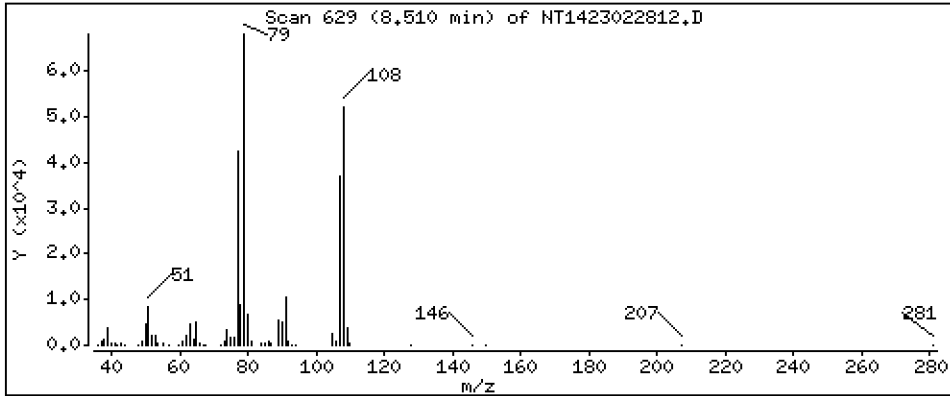
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.304 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

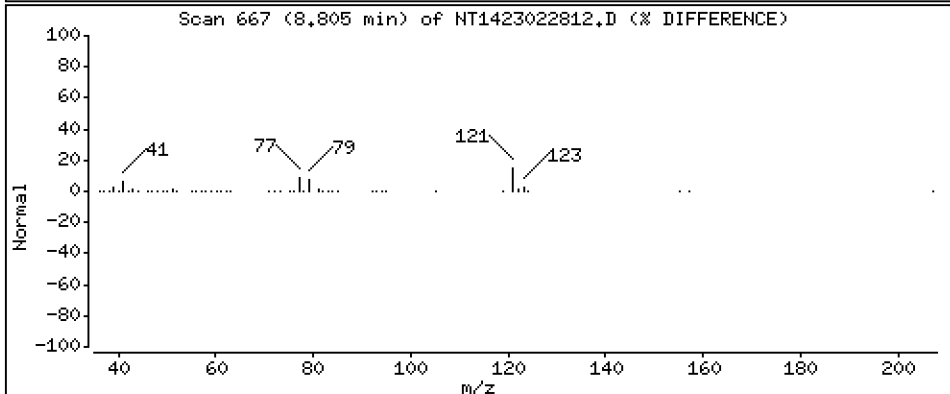
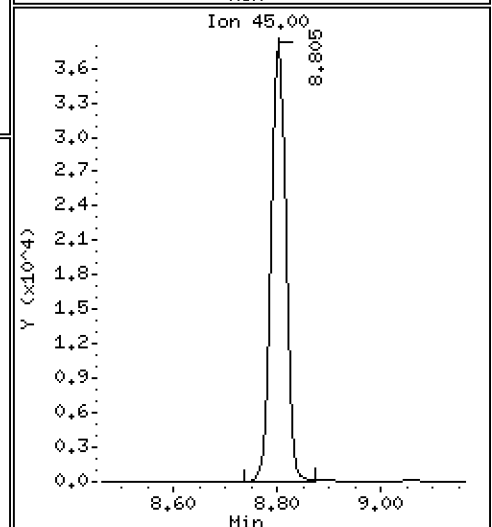
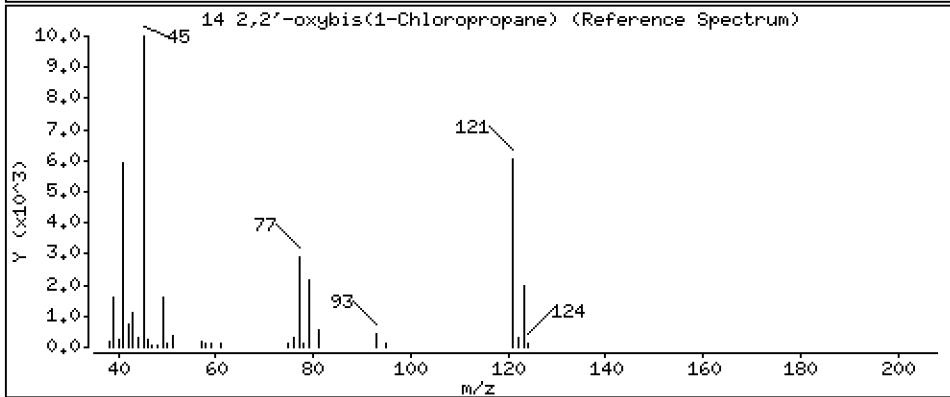
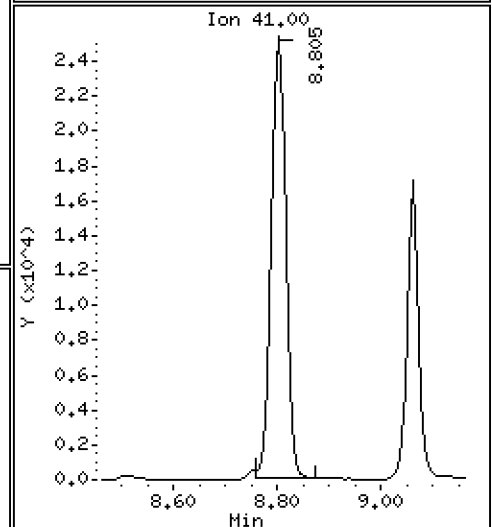
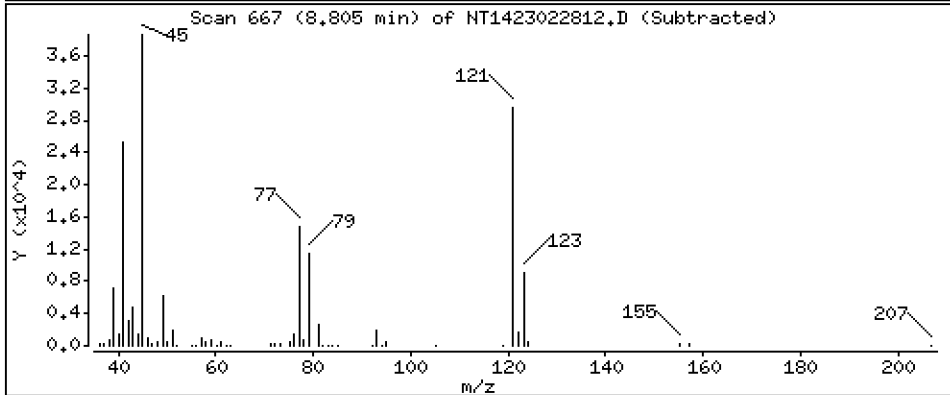
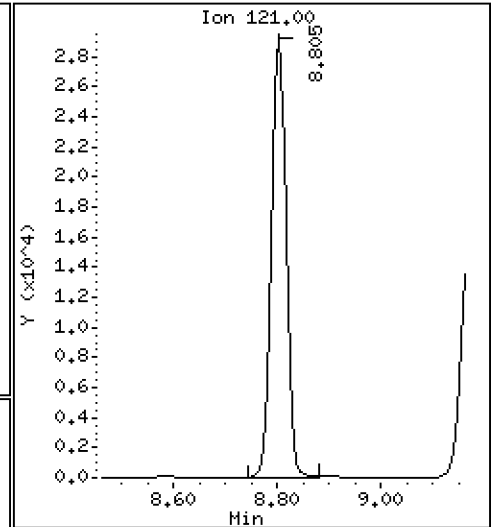
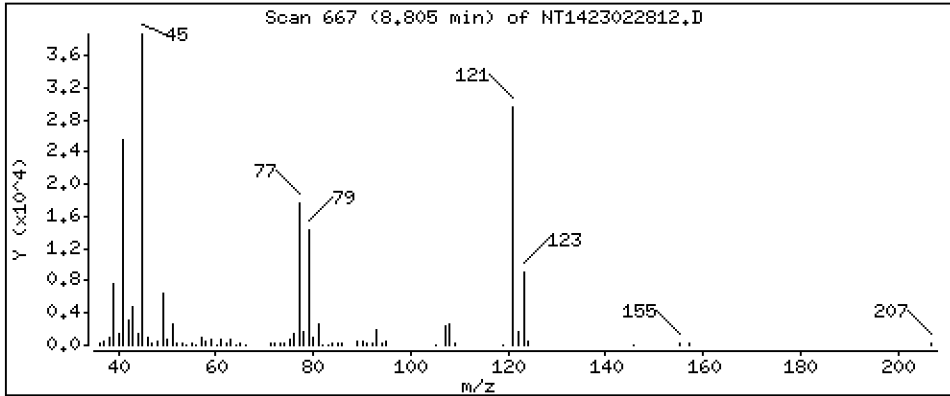
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 5,510 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

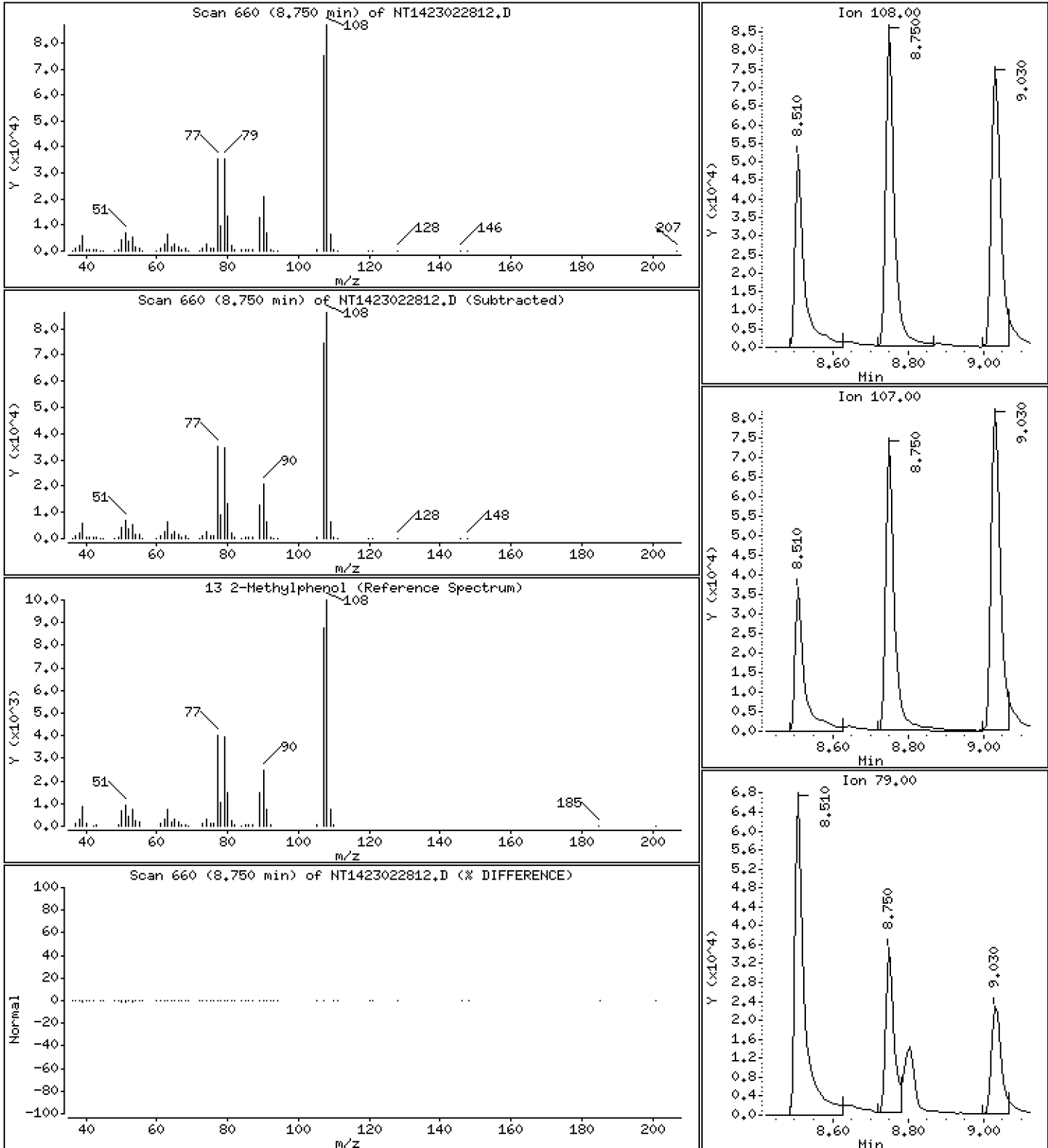
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.407 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

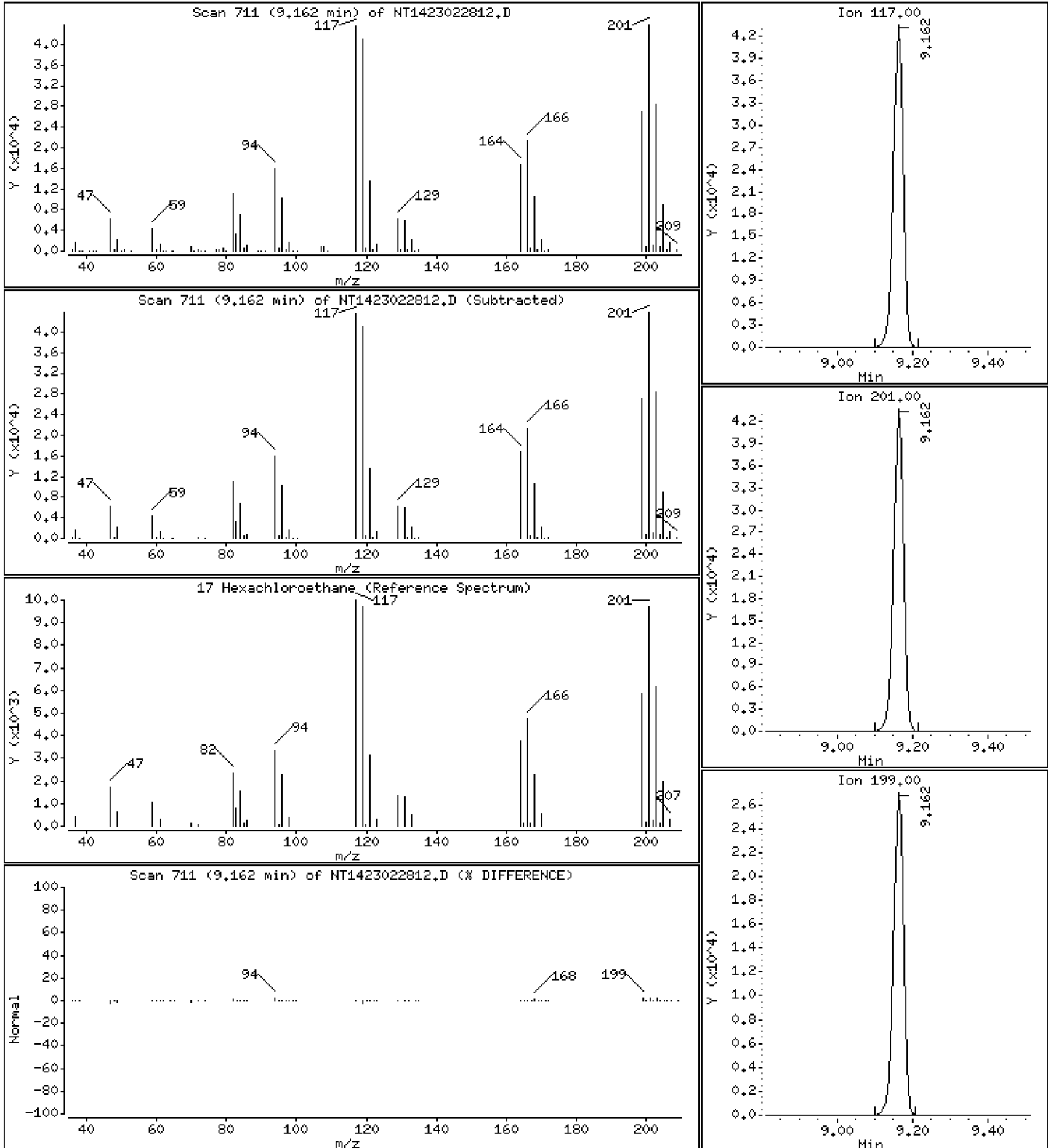
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 5.089 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

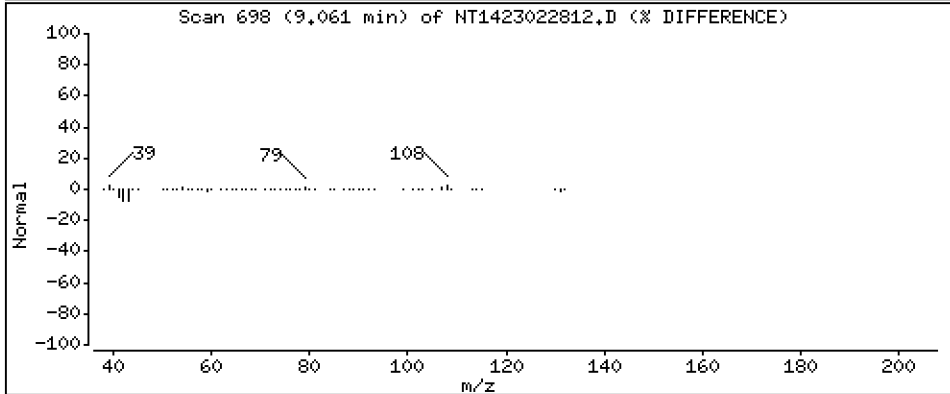
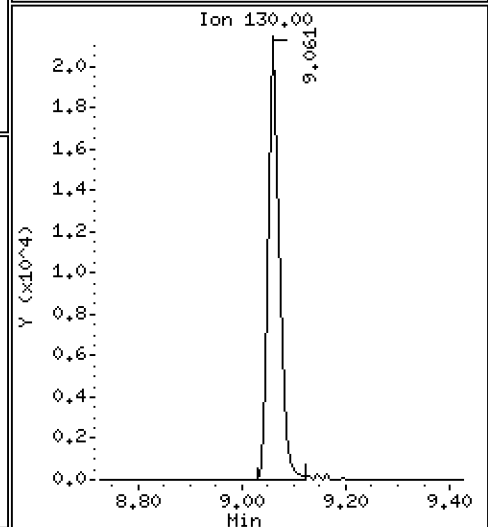
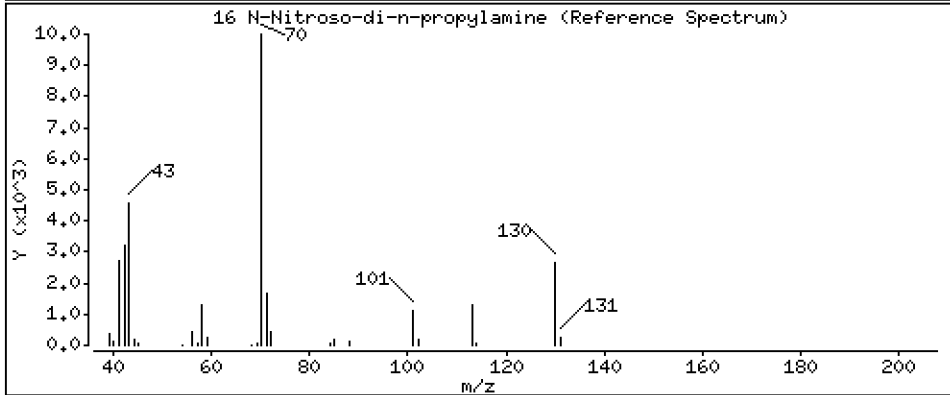
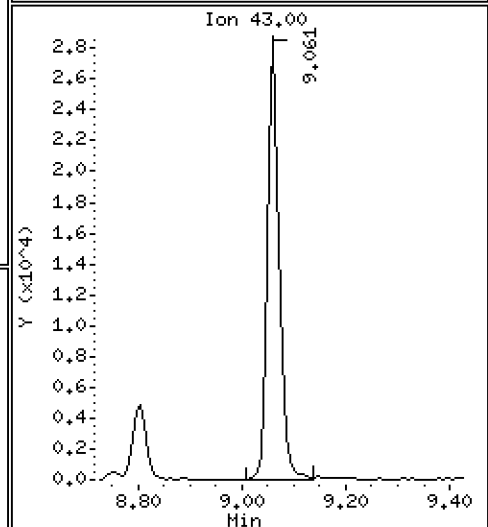
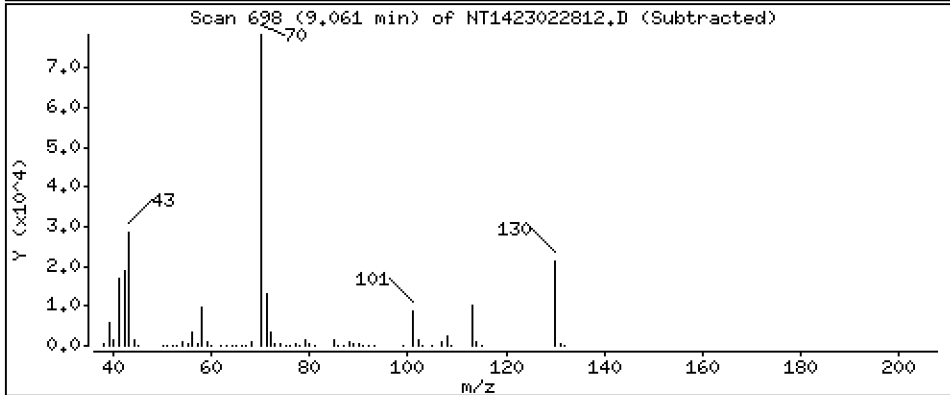
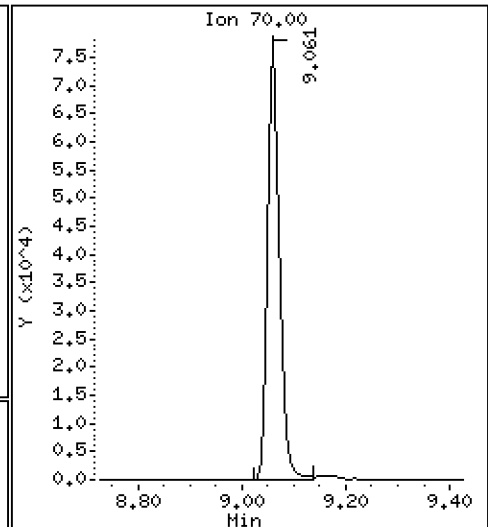
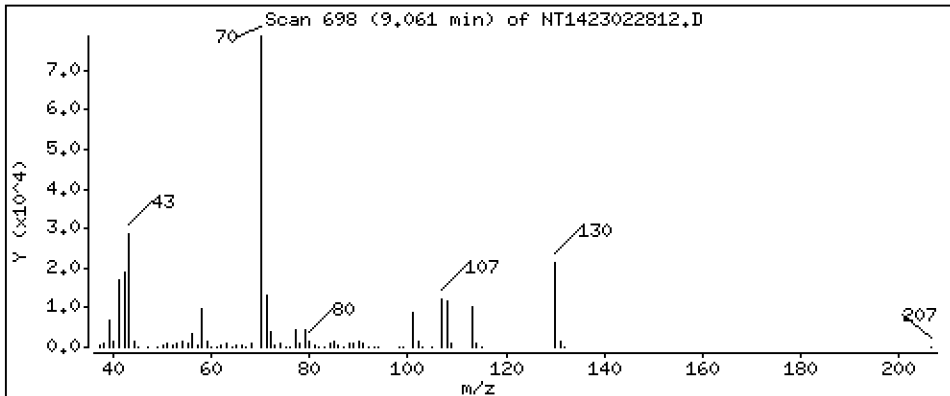
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,138 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

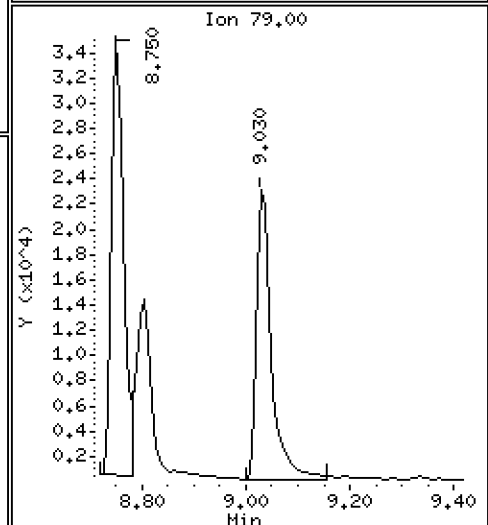
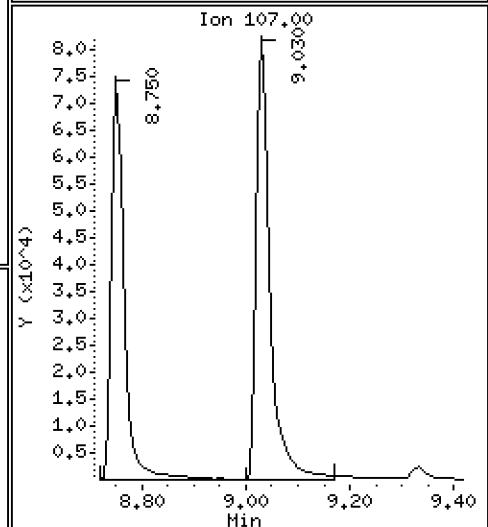
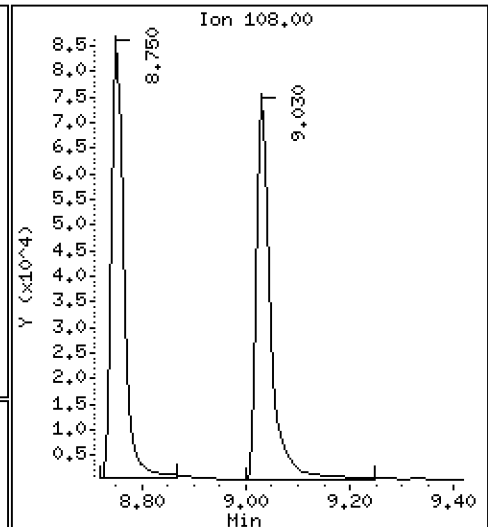
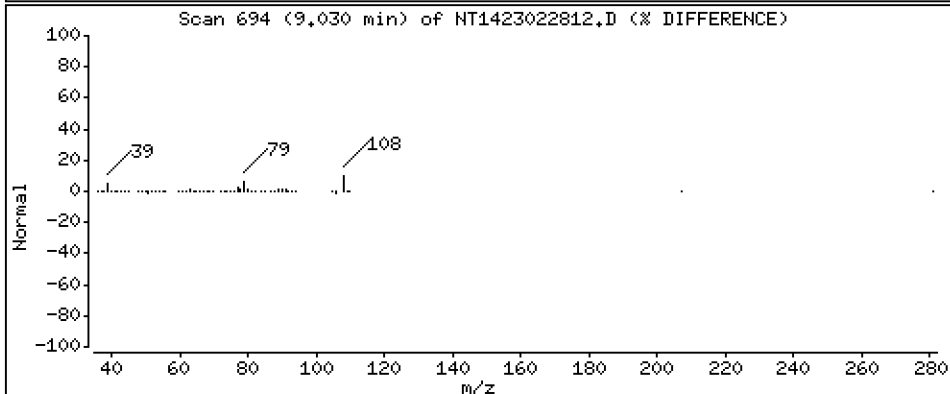
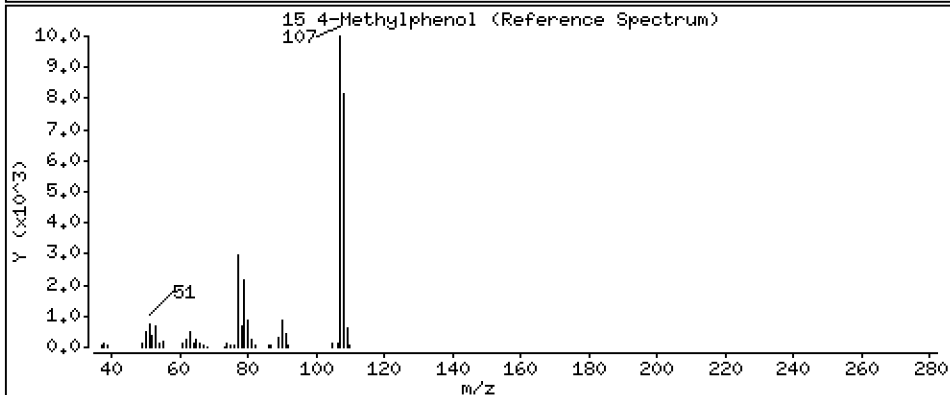
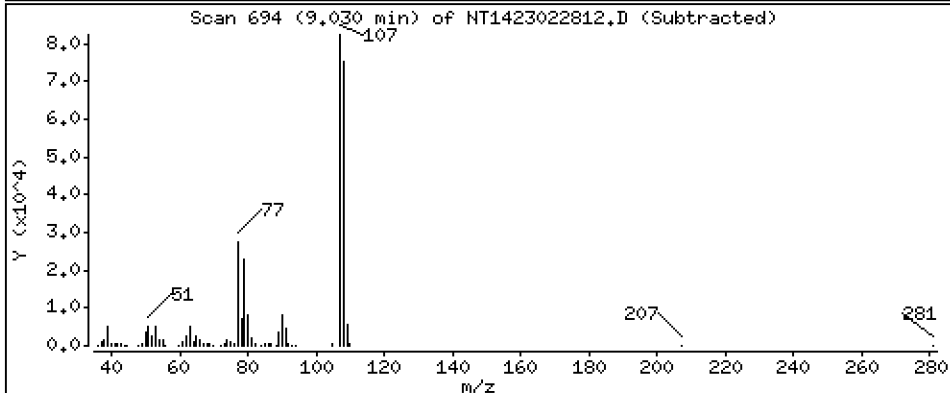
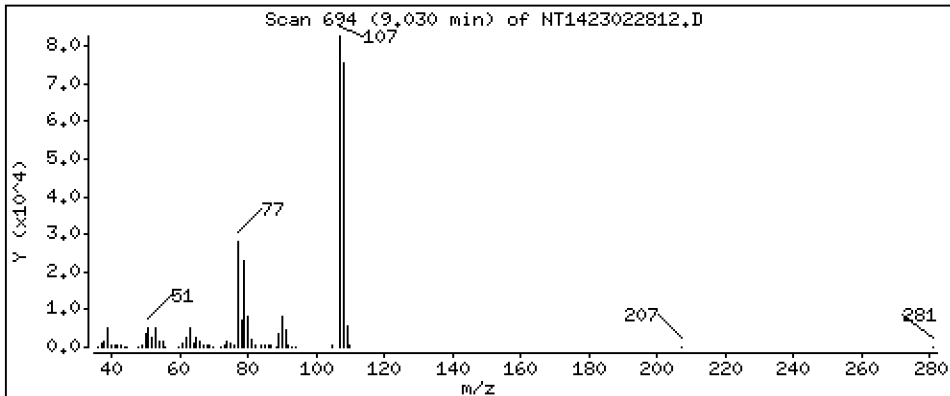
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 4.218 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

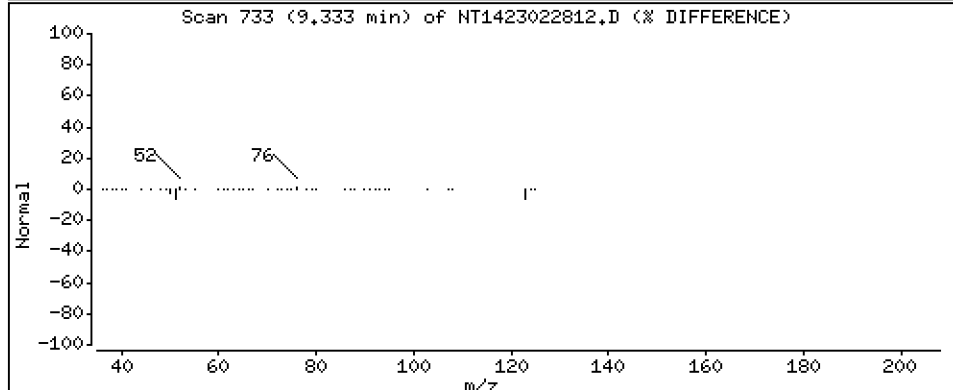
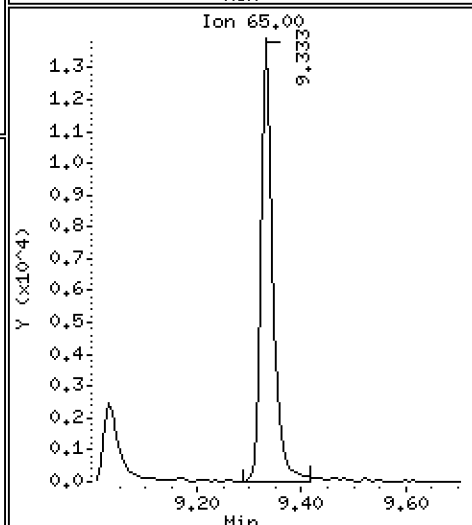
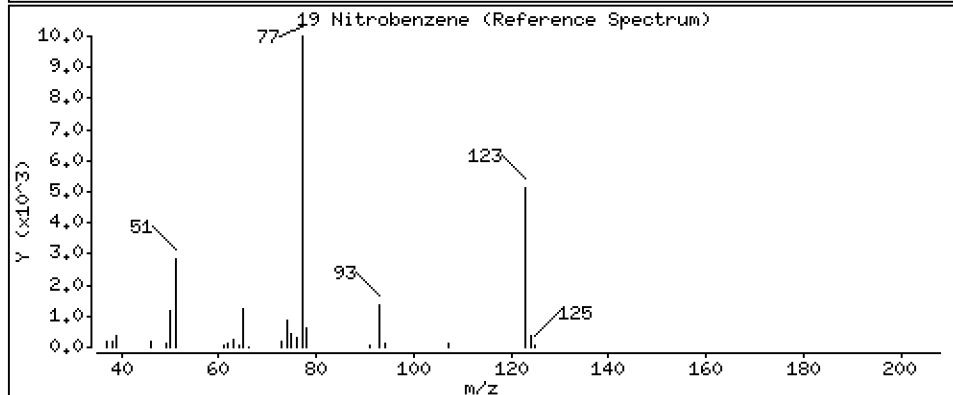
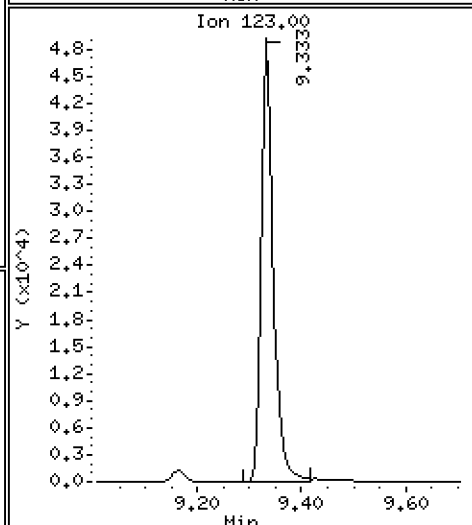
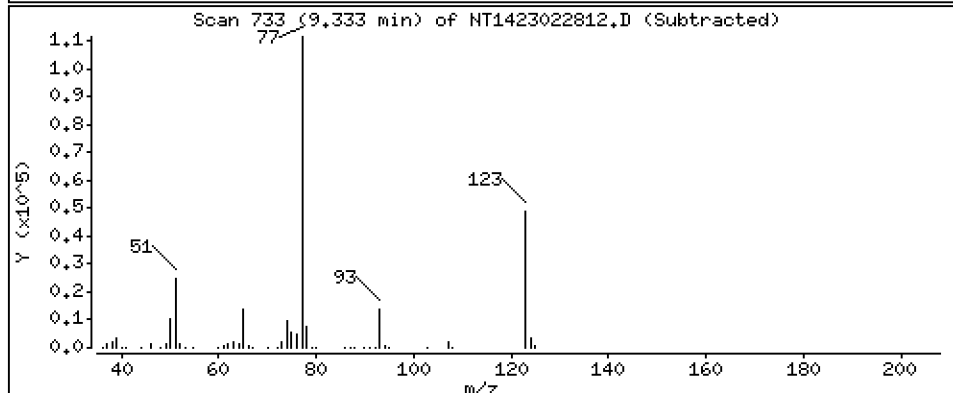
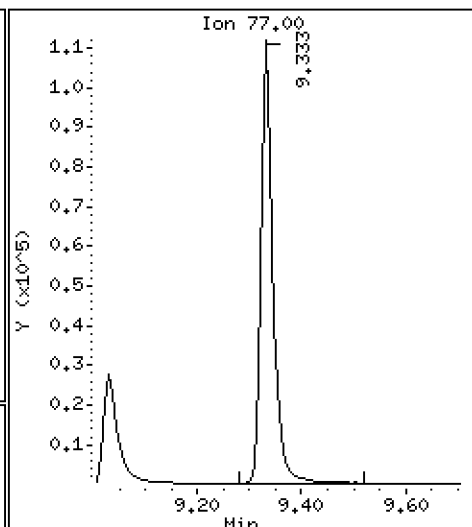
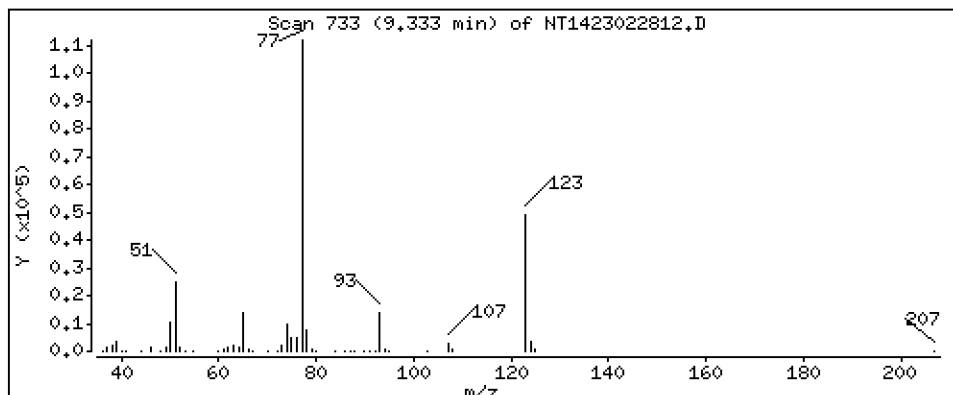
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 5,059 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

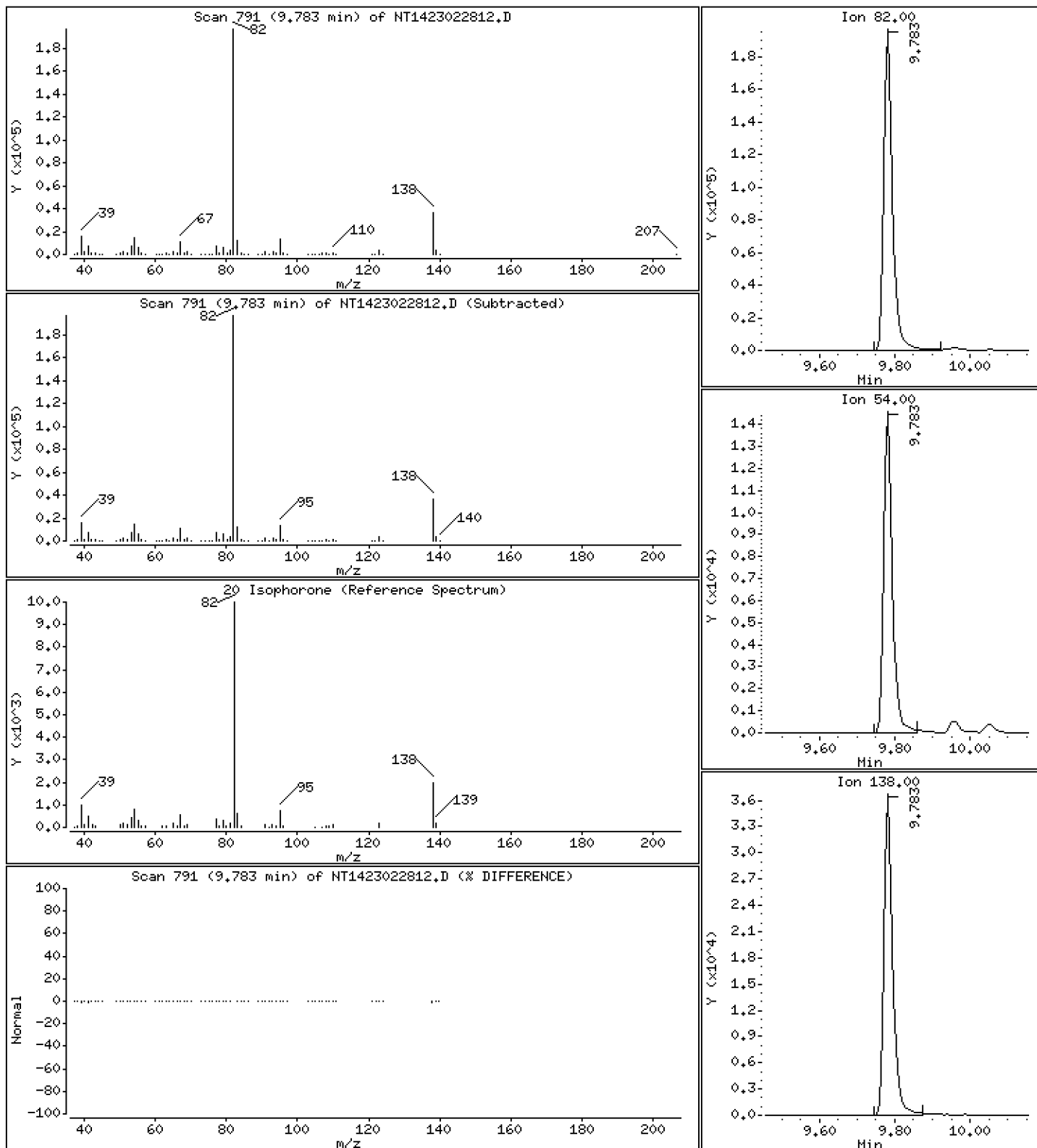
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 6.410 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

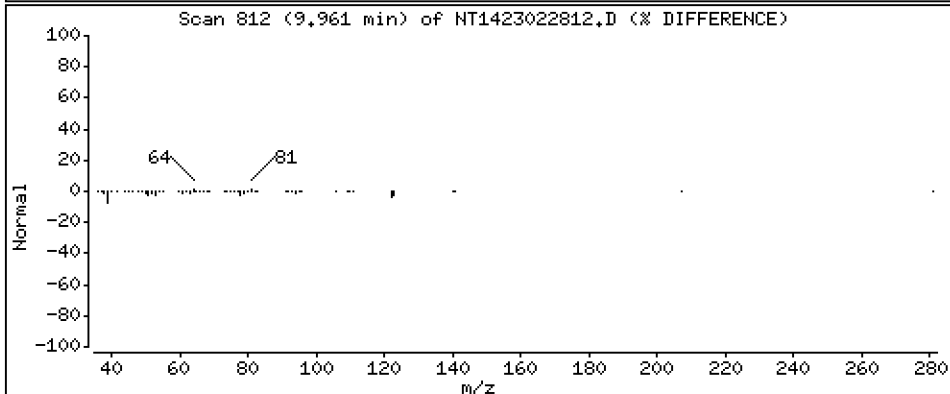
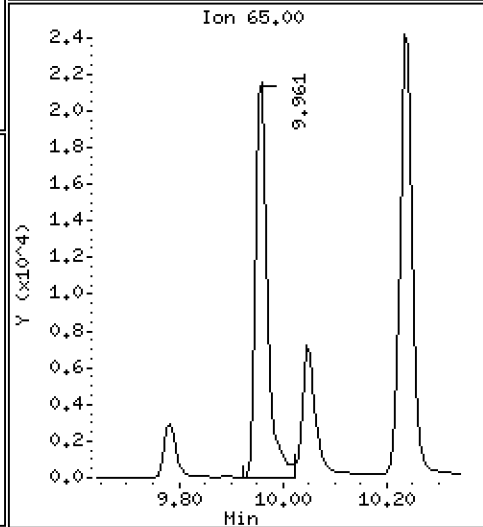
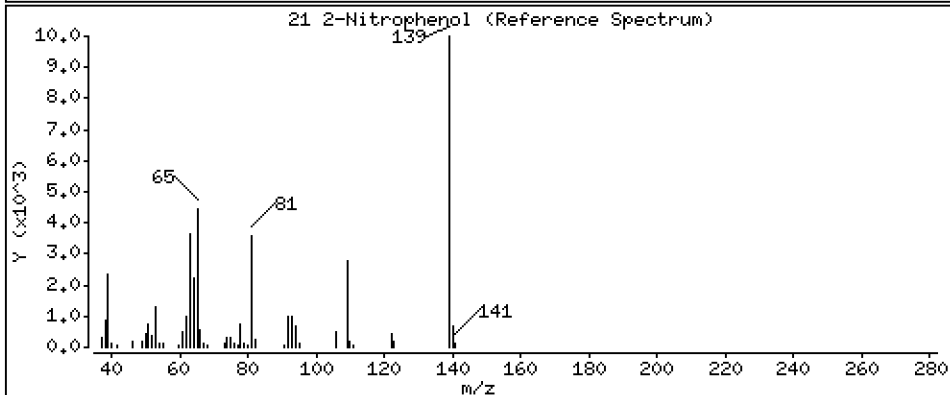
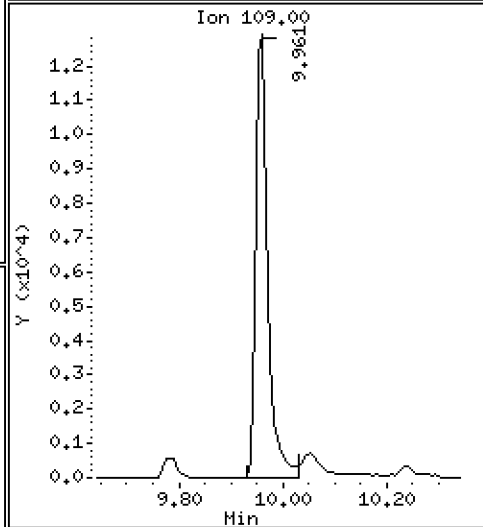
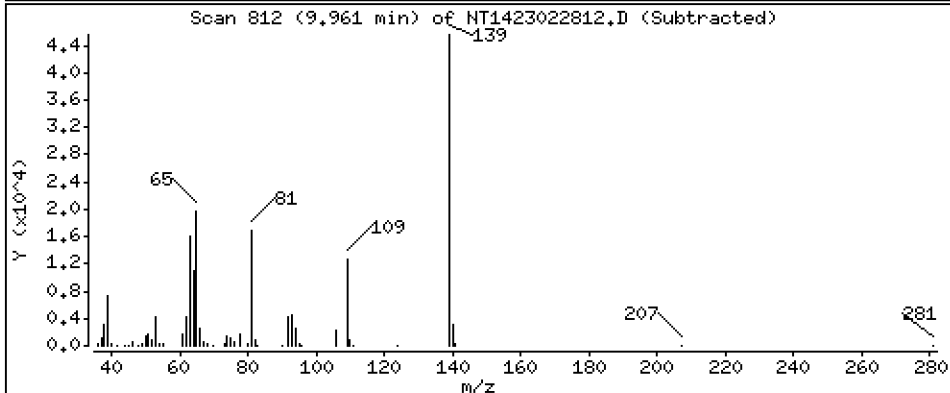
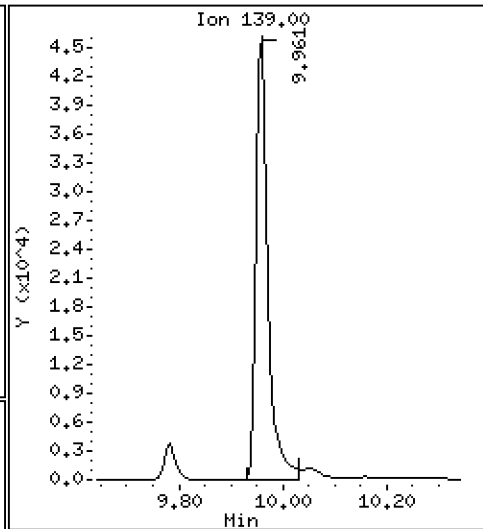
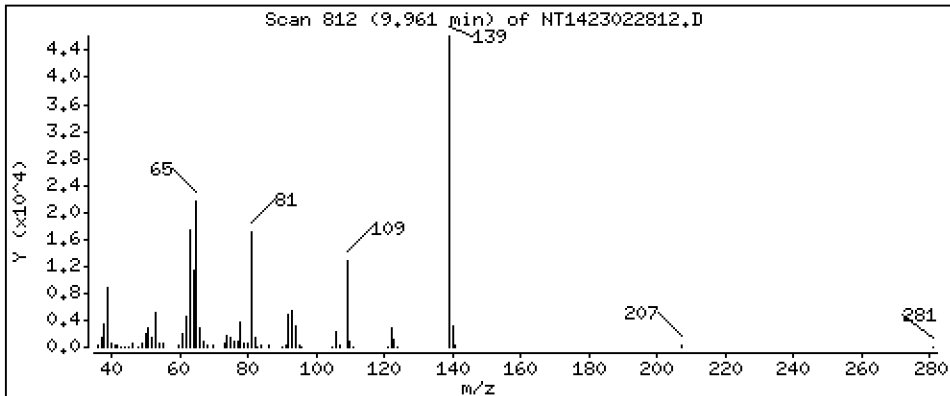
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,126 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

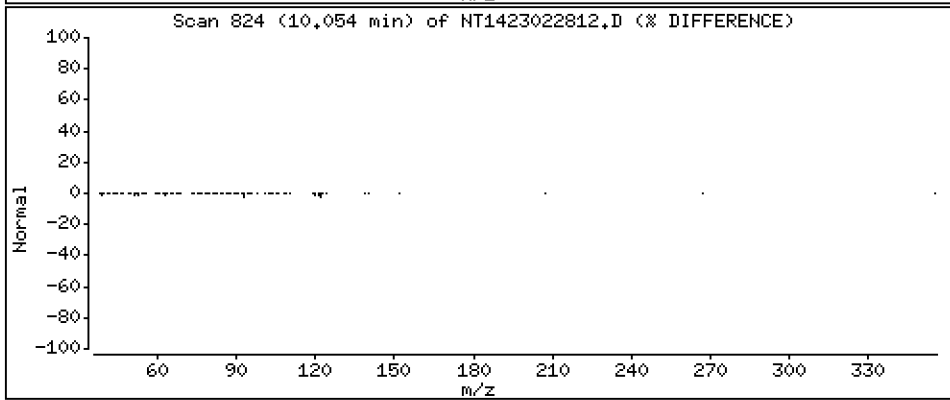
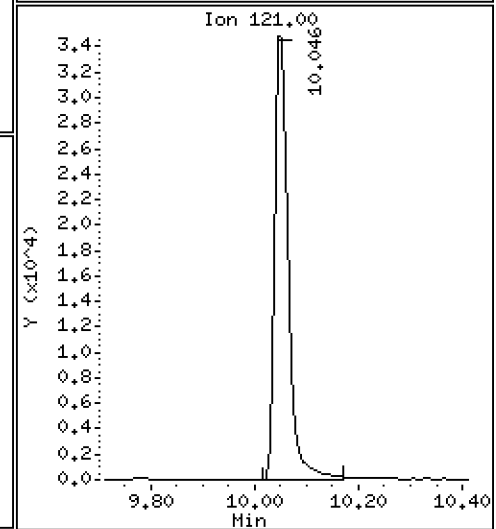
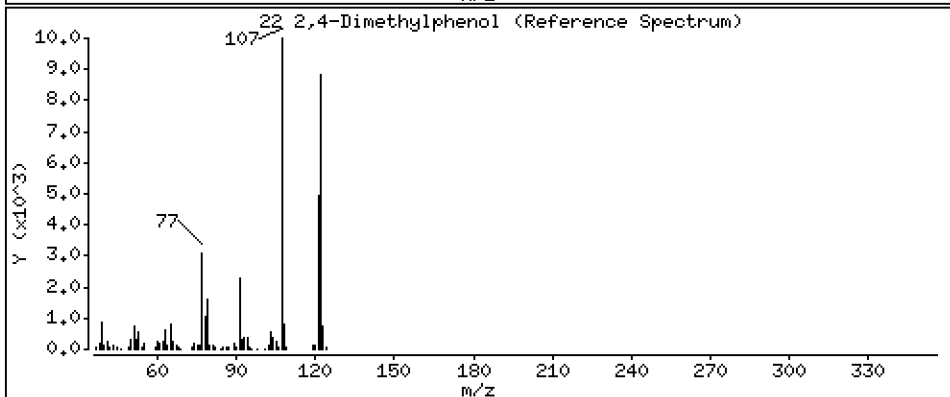
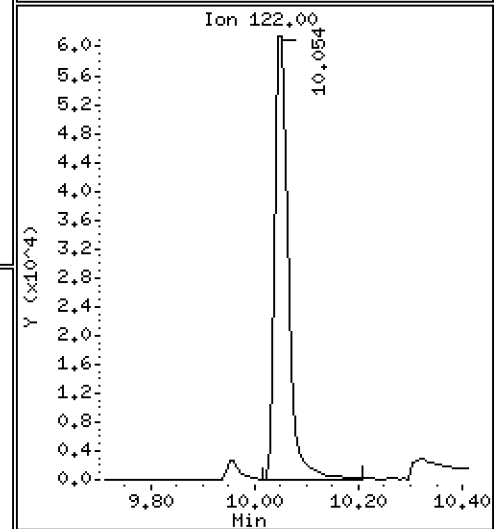
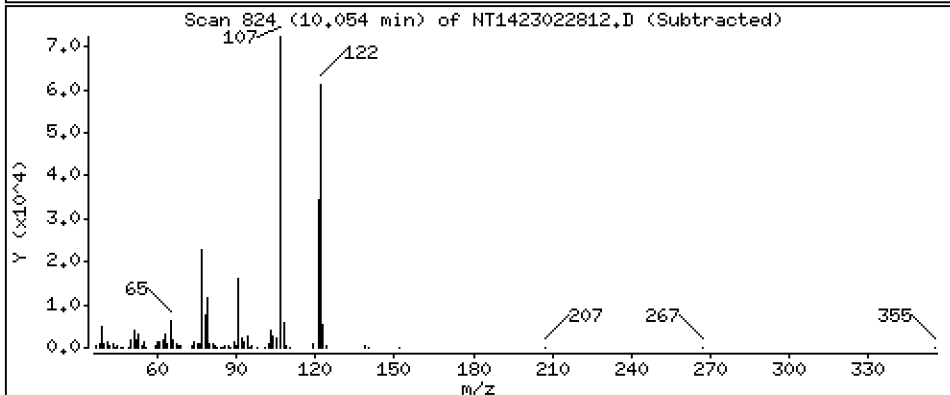
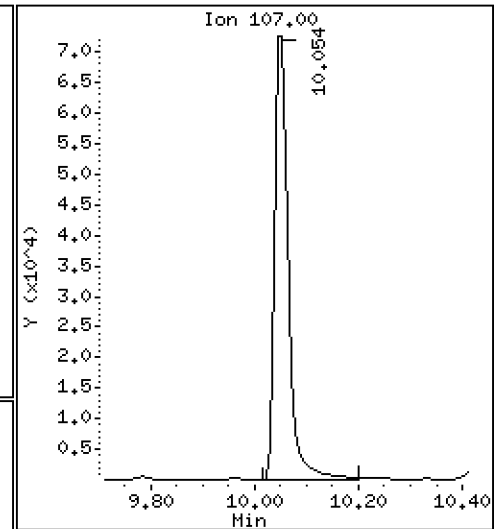
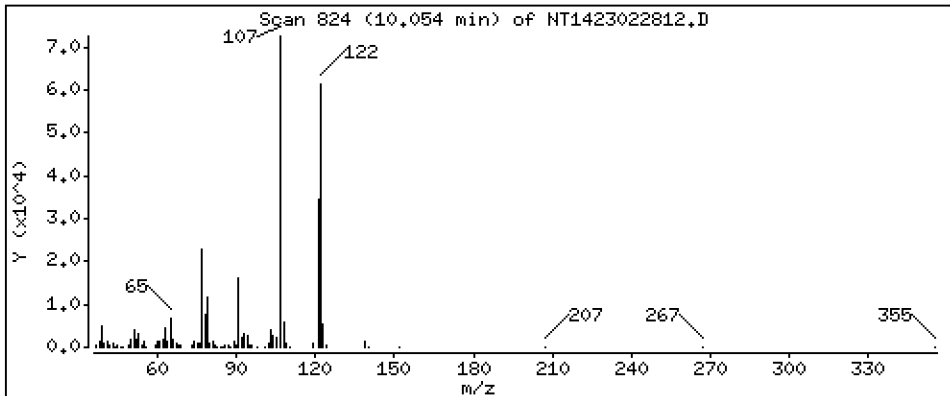
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 3,890 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

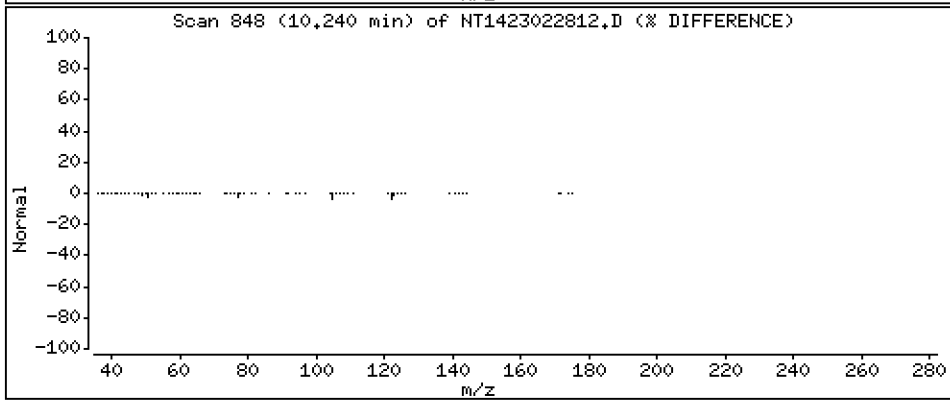
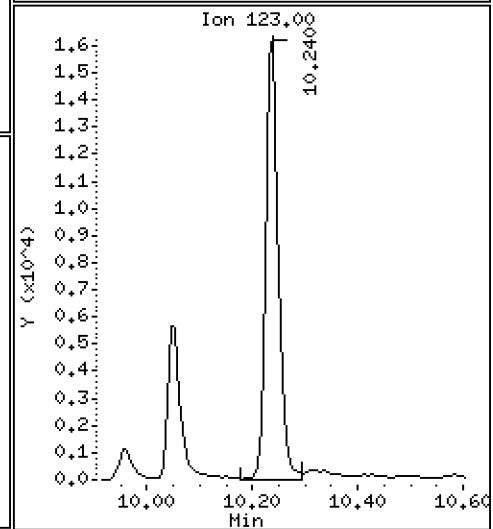
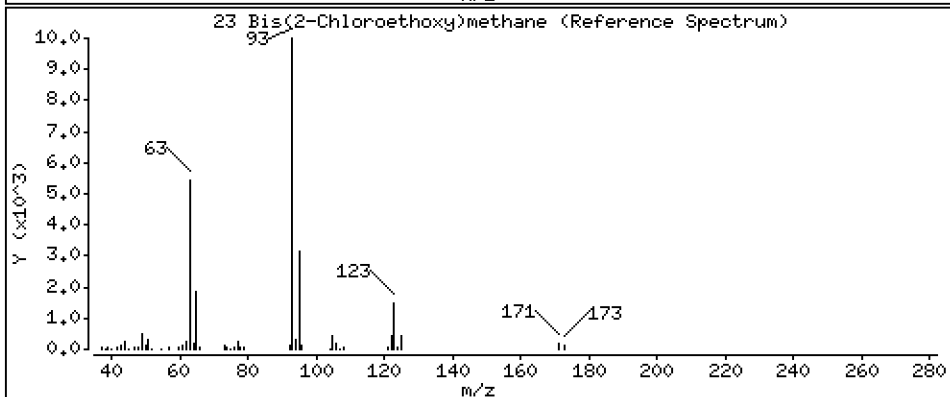
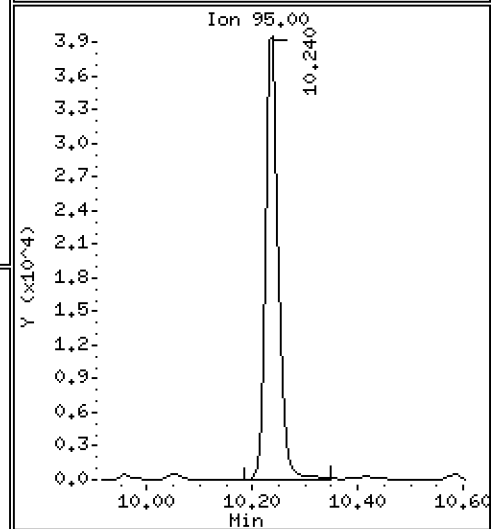
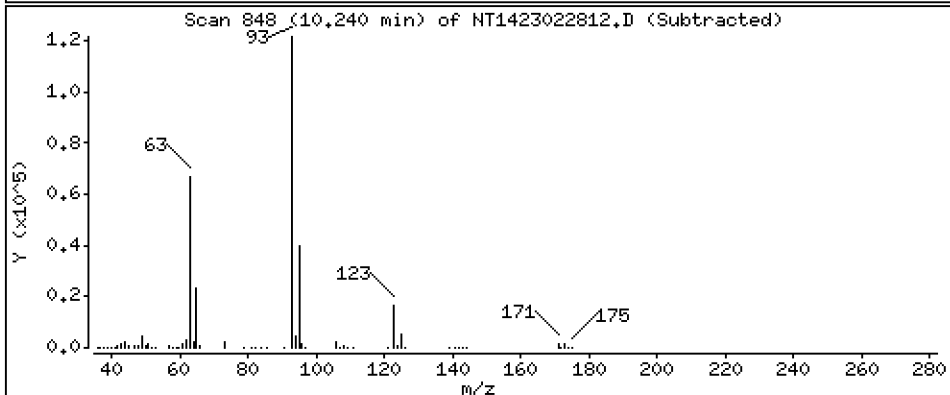
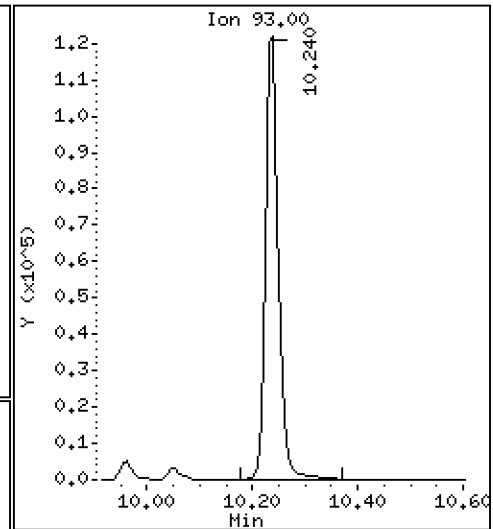
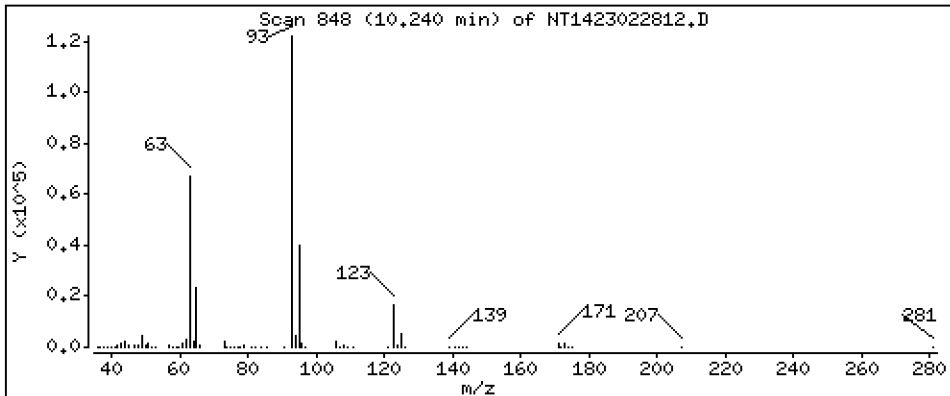
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,764 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

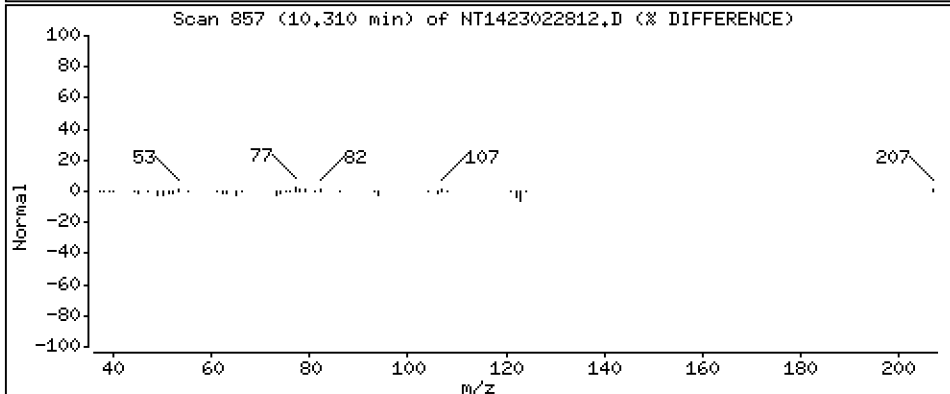
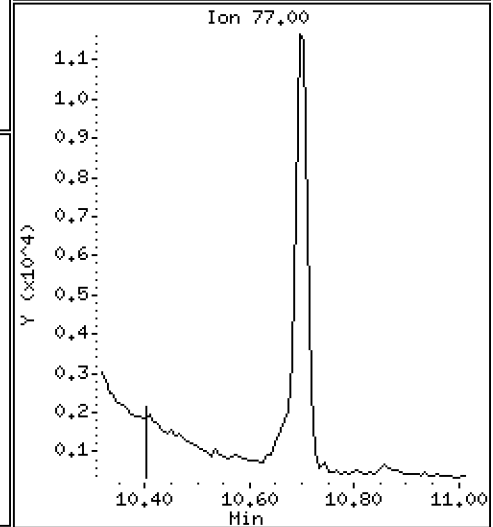
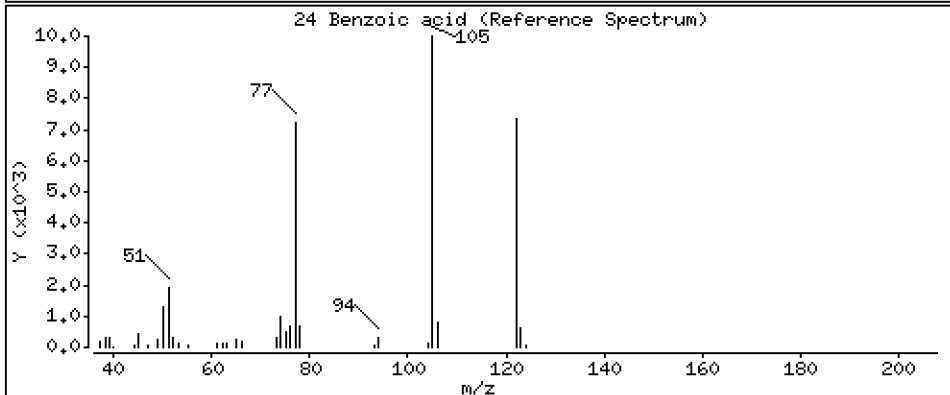
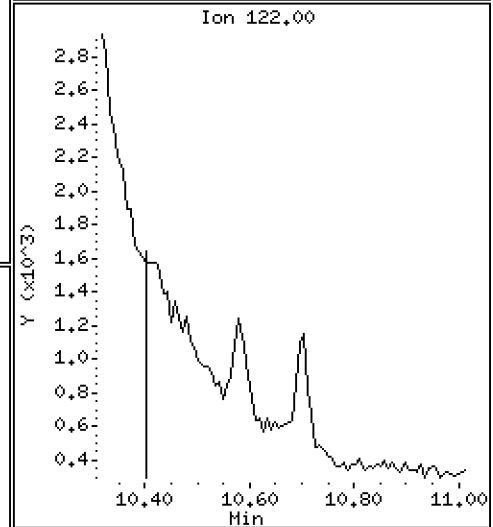
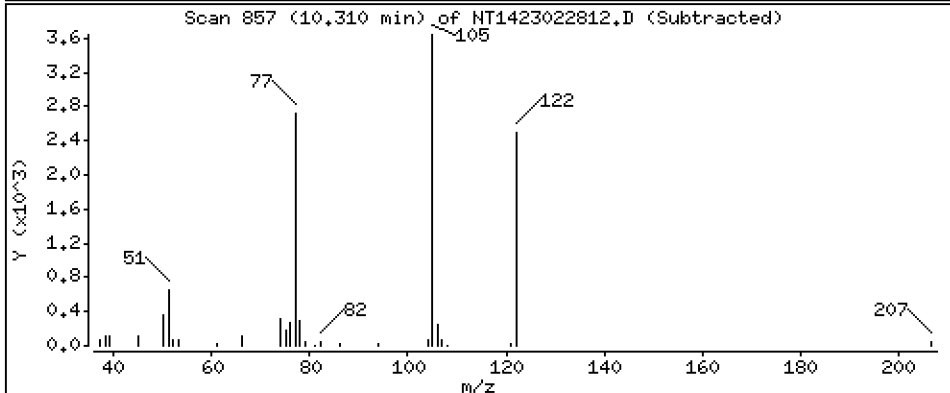
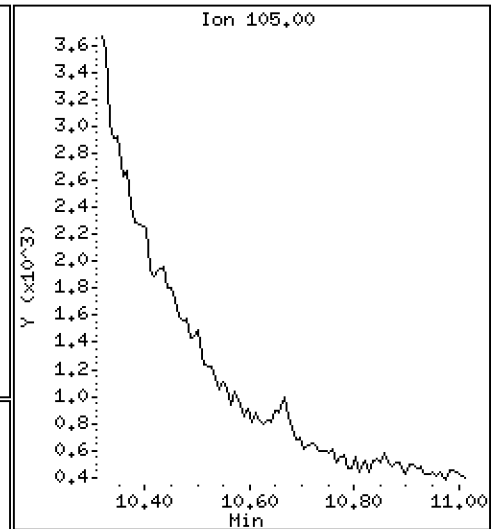
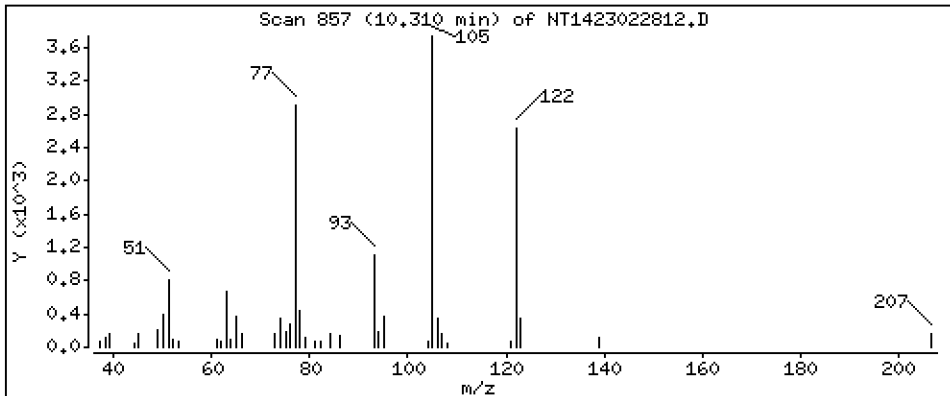
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 4.071 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

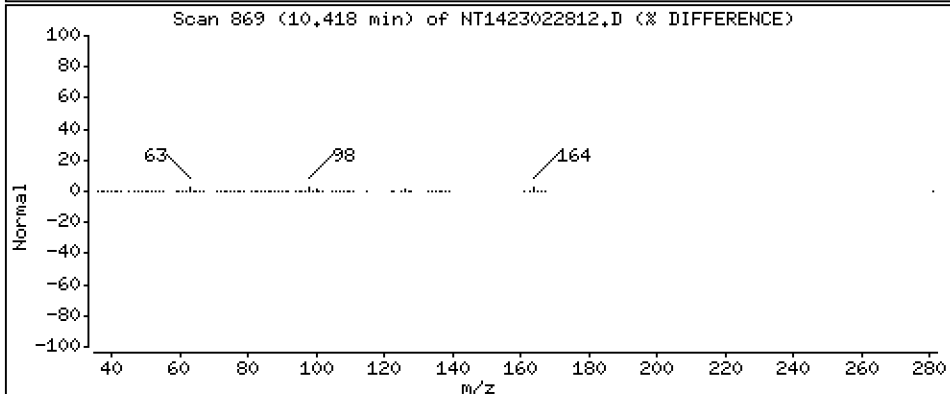
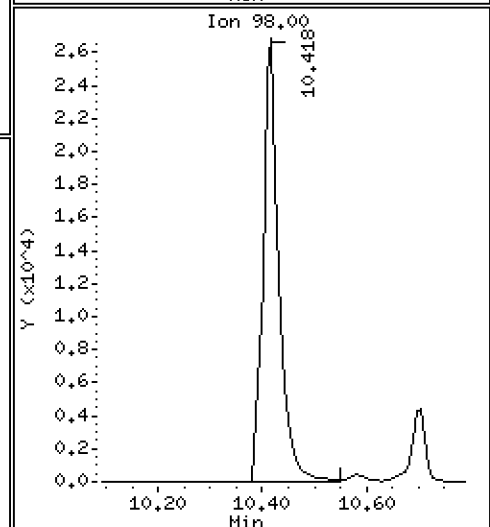
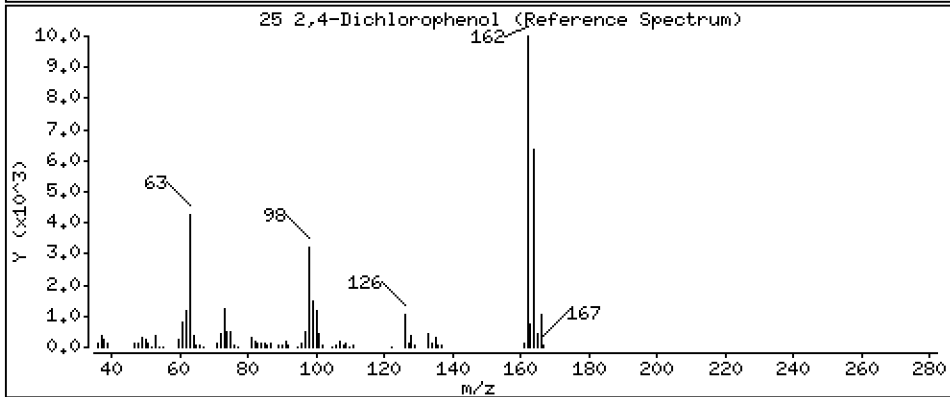
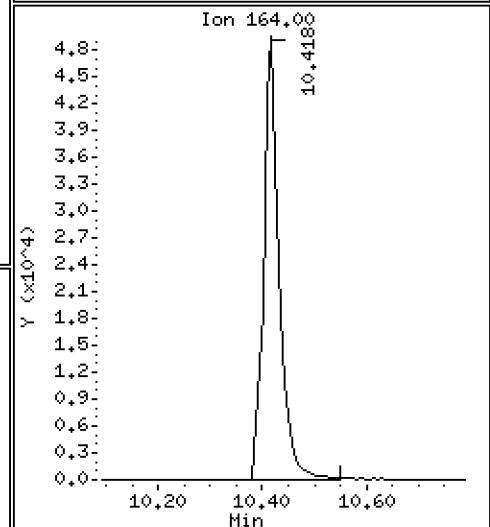
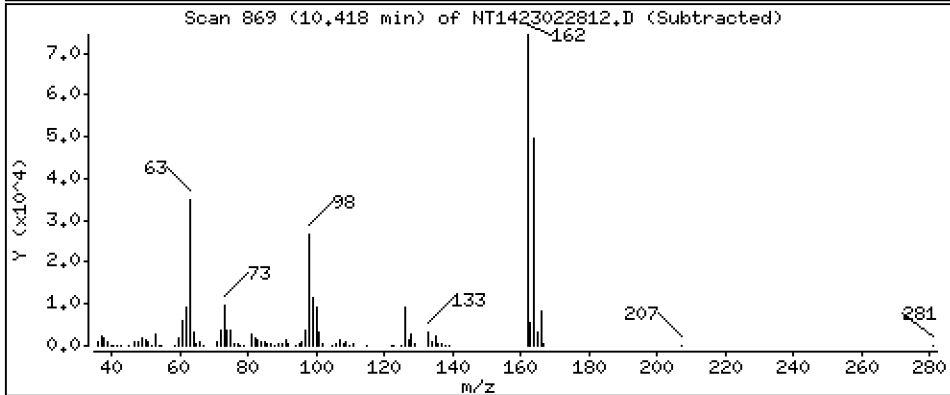
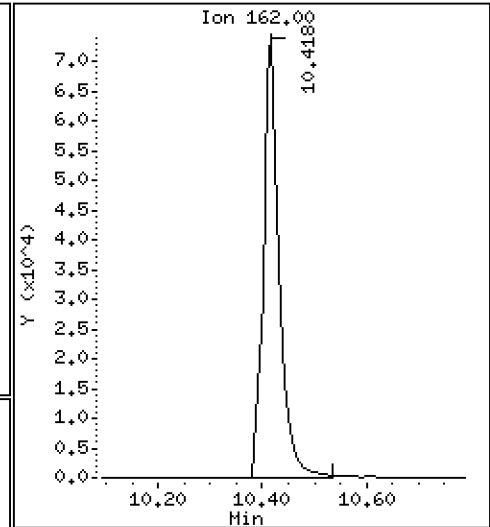
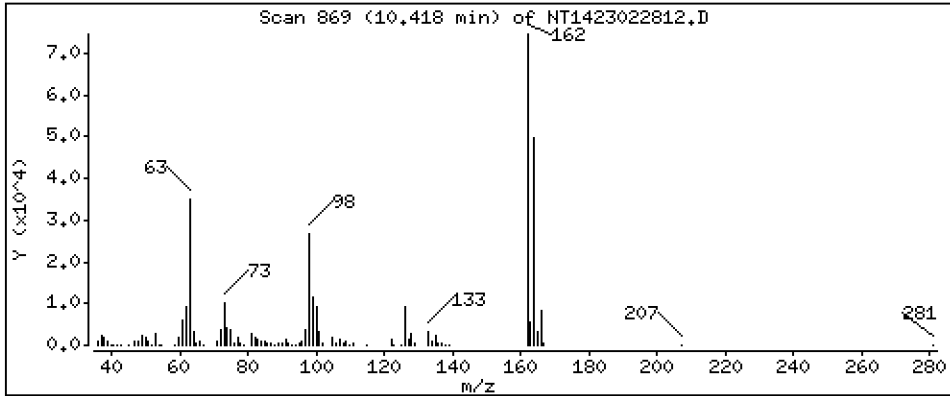
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 4,783 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

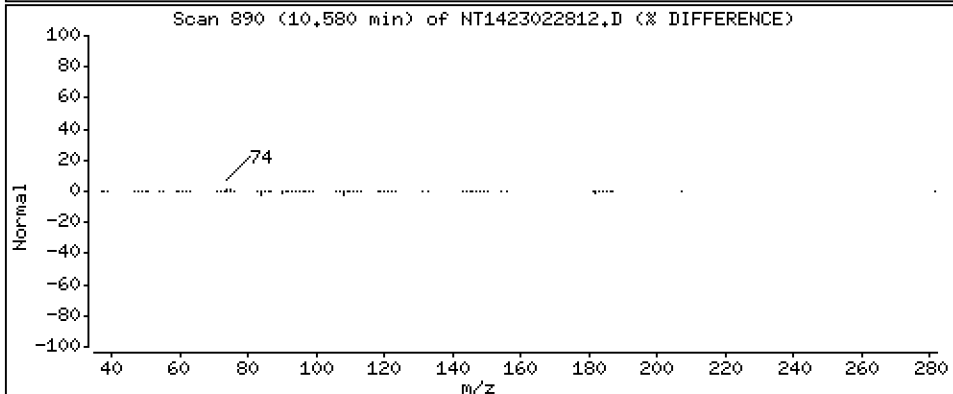
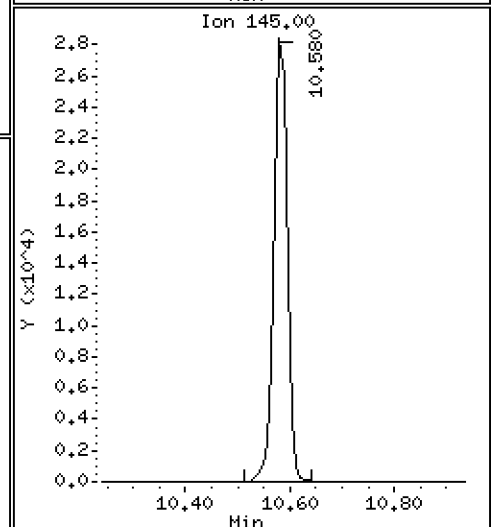
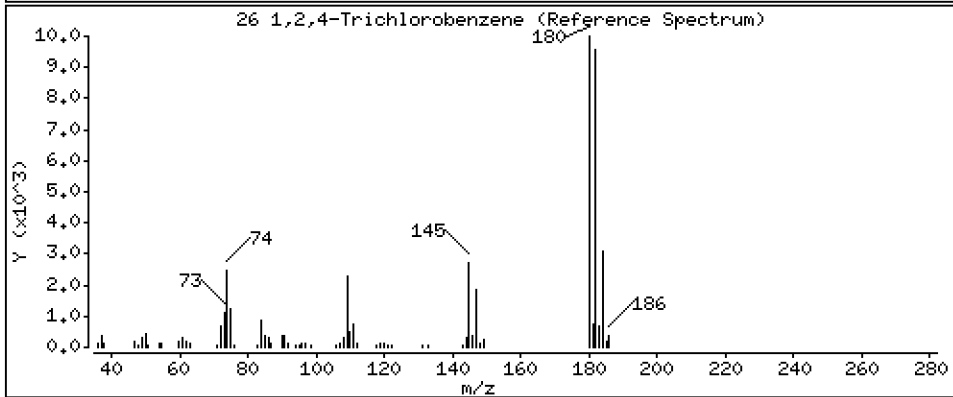
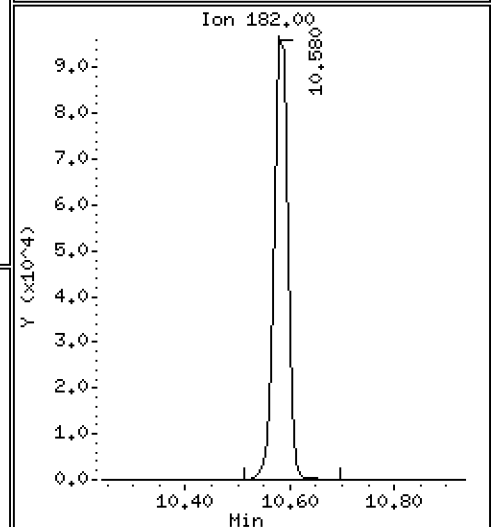
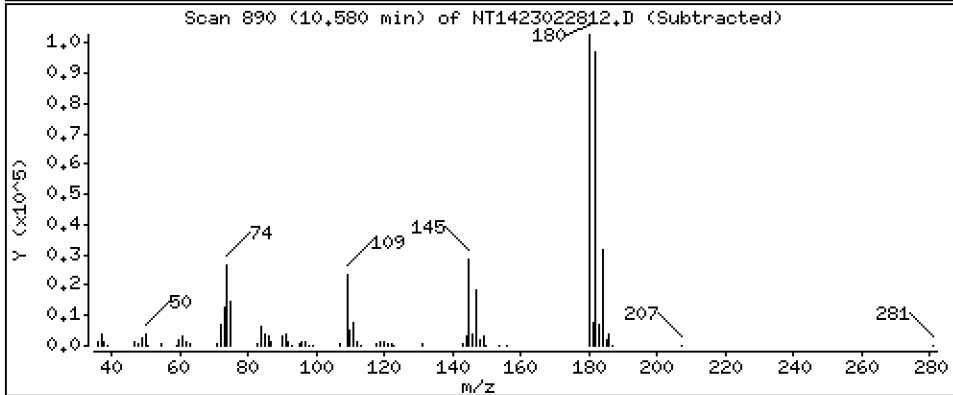
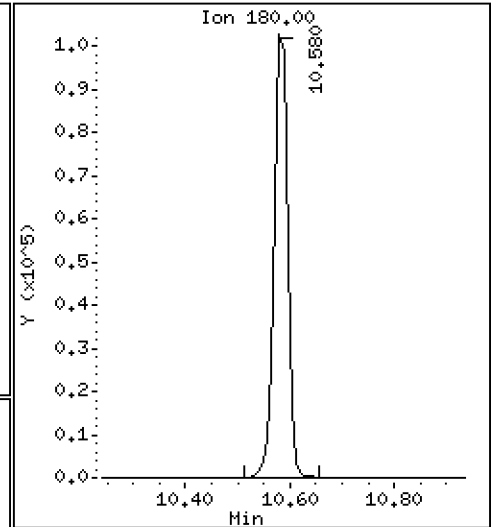
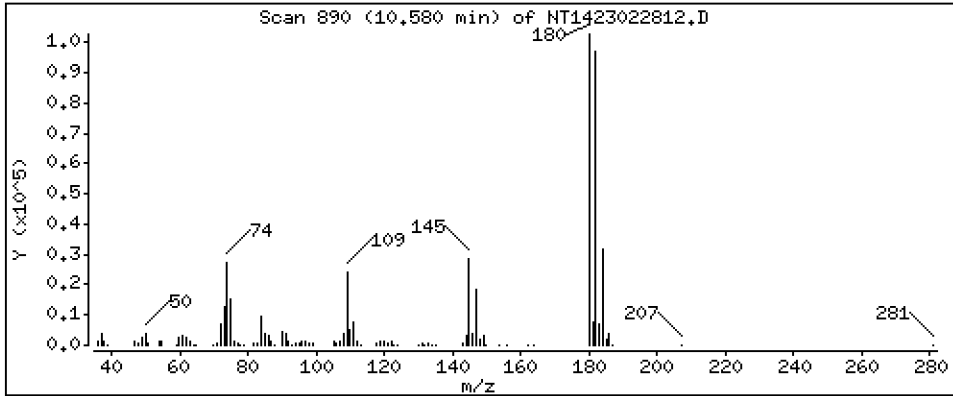
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,789 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

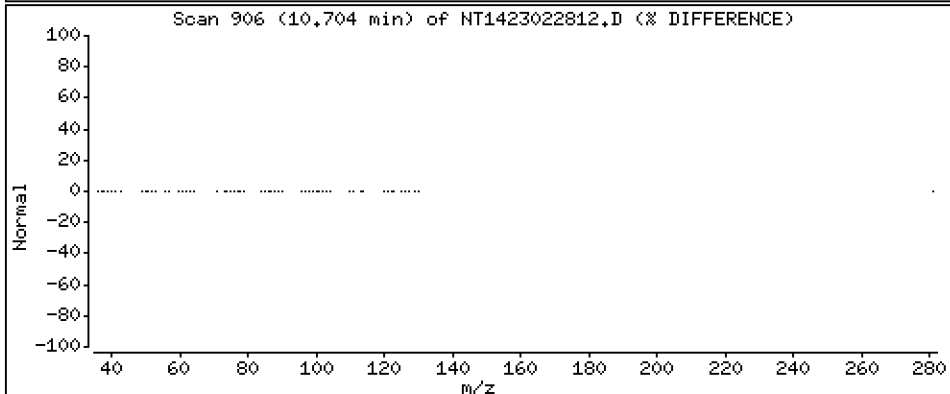
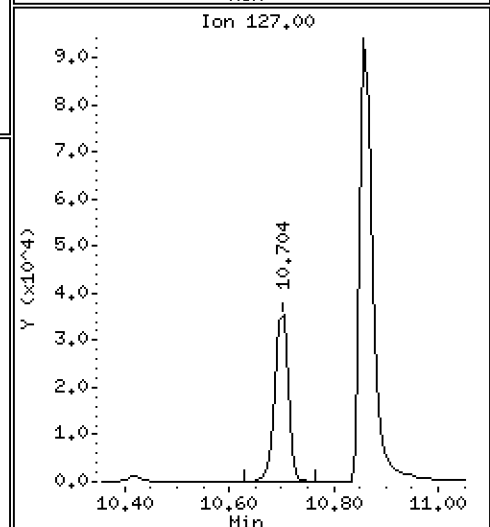
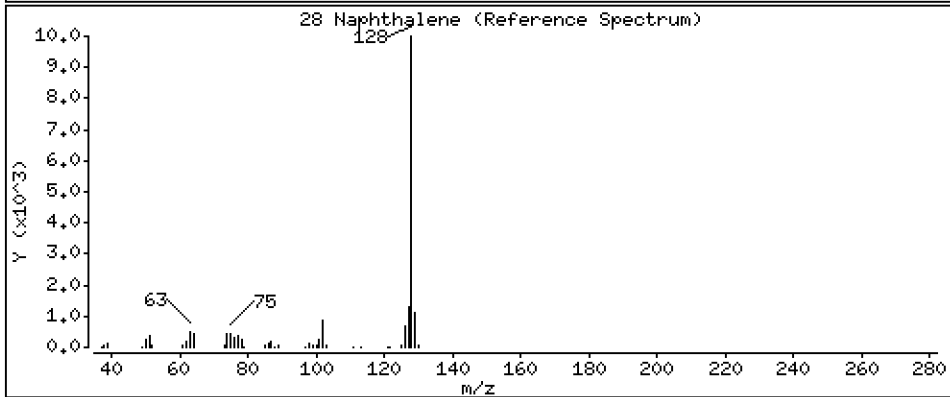
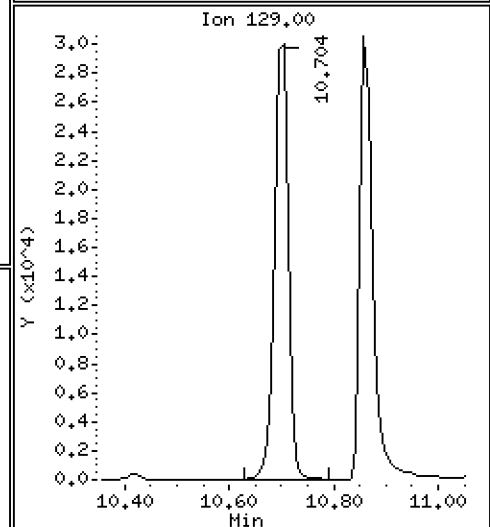
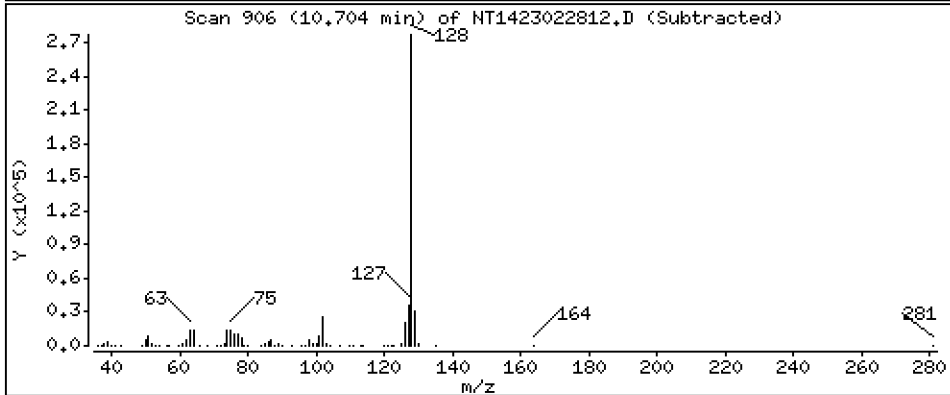
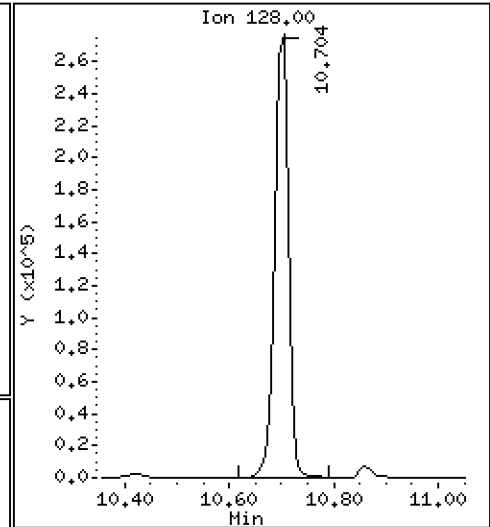
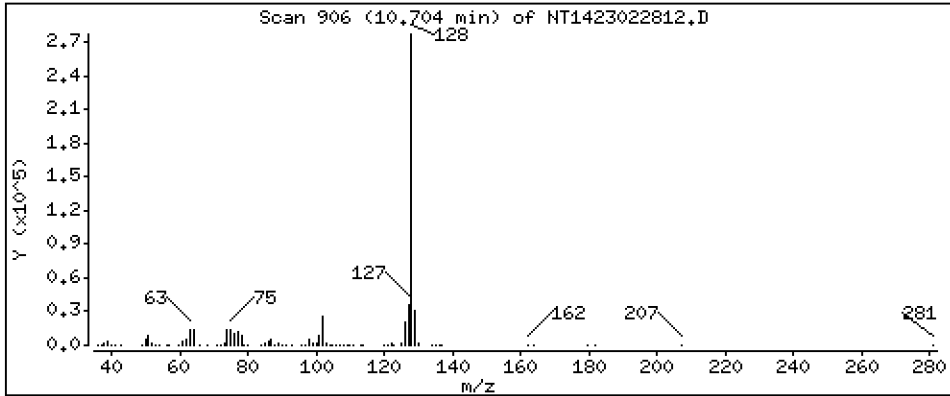
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,766 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

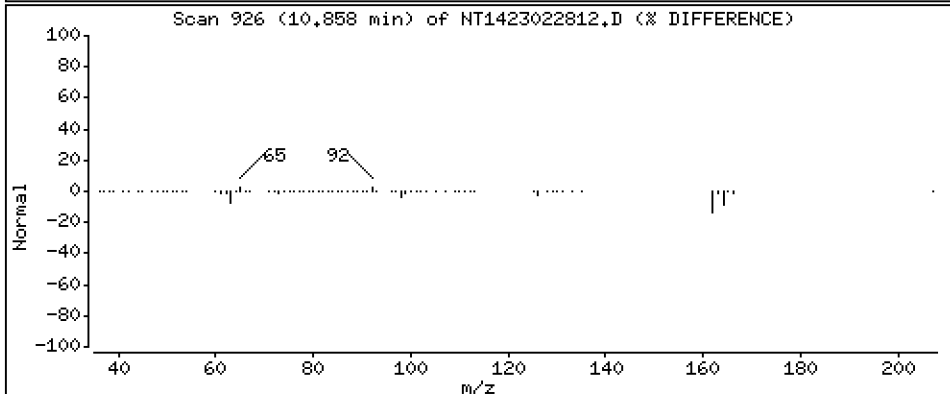
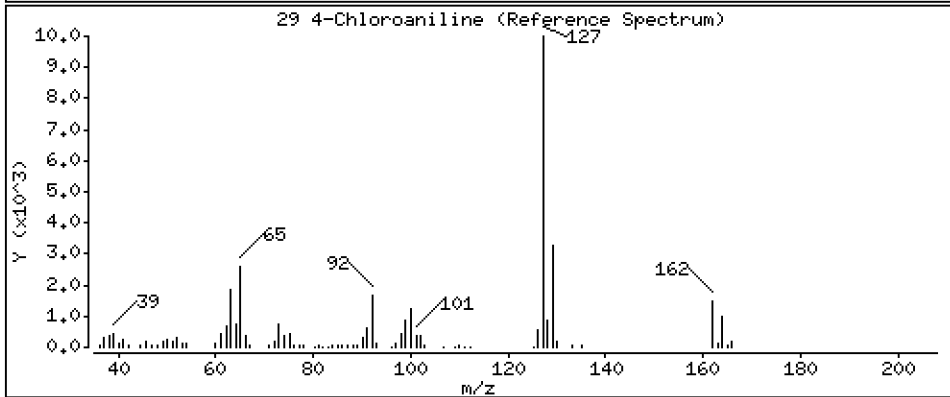
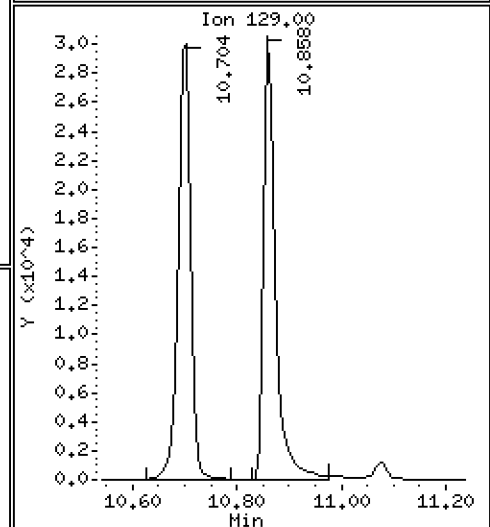
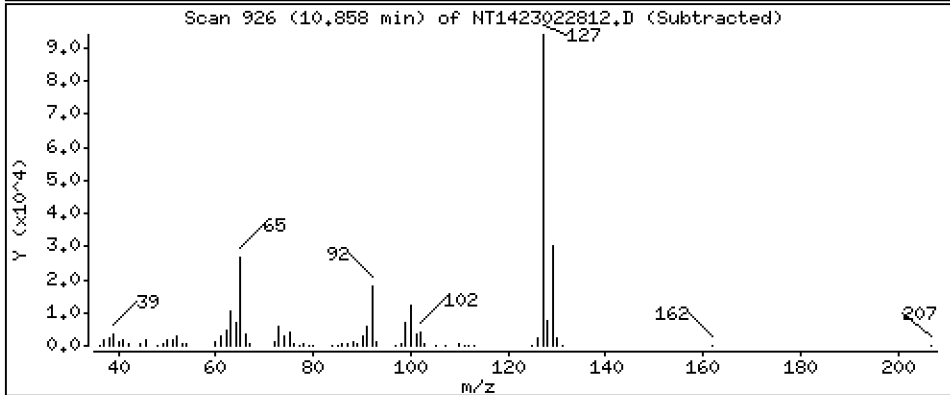
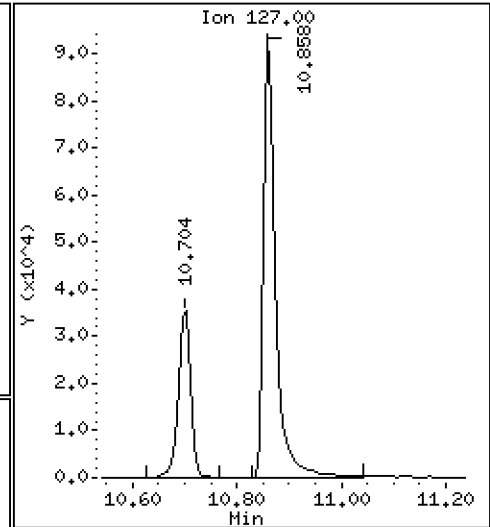
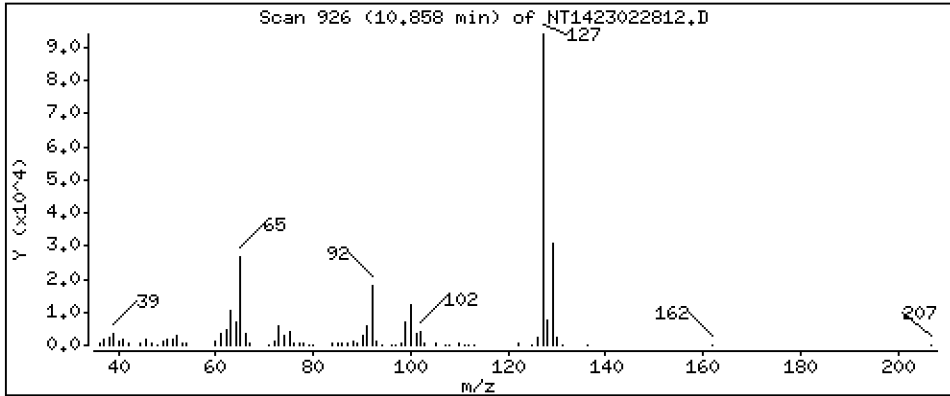
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 3,895 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

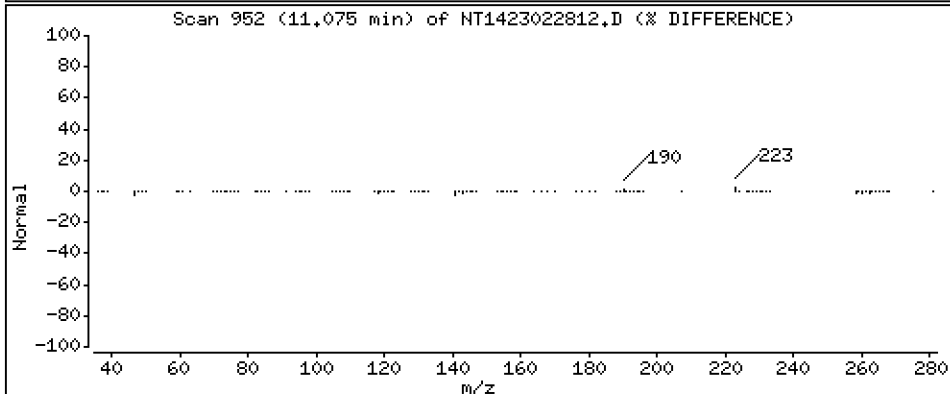
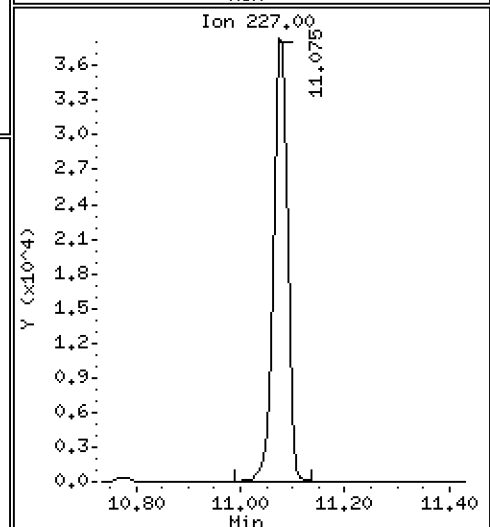
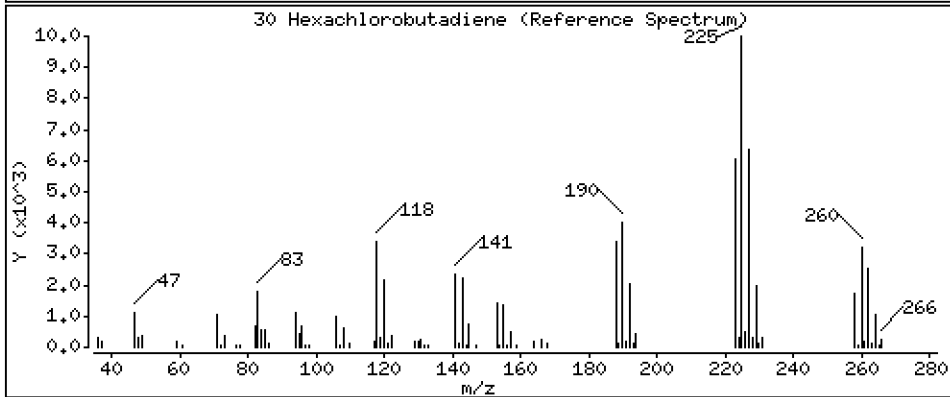
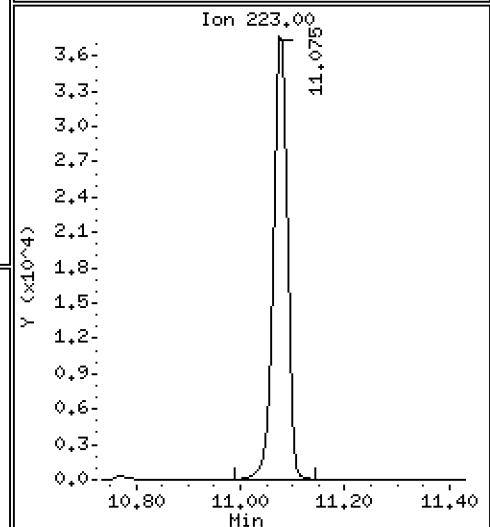
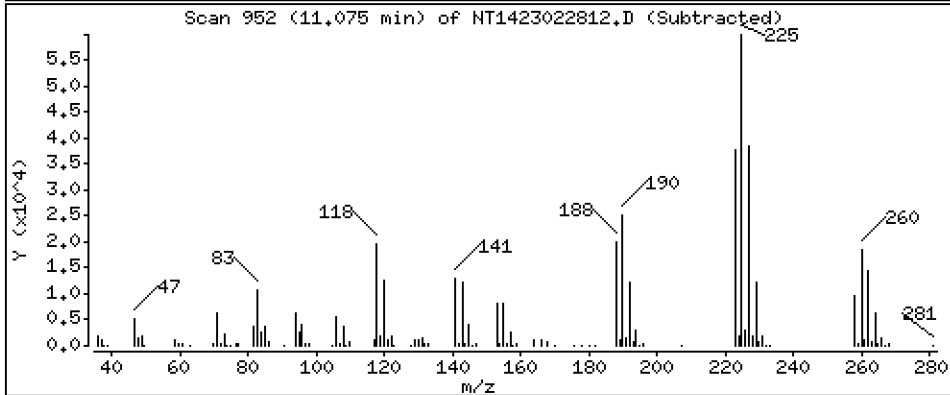
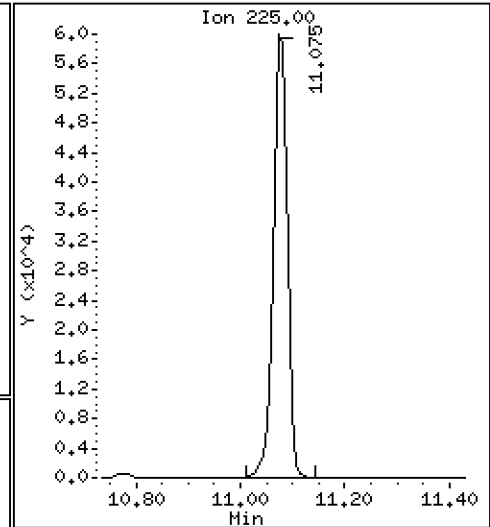
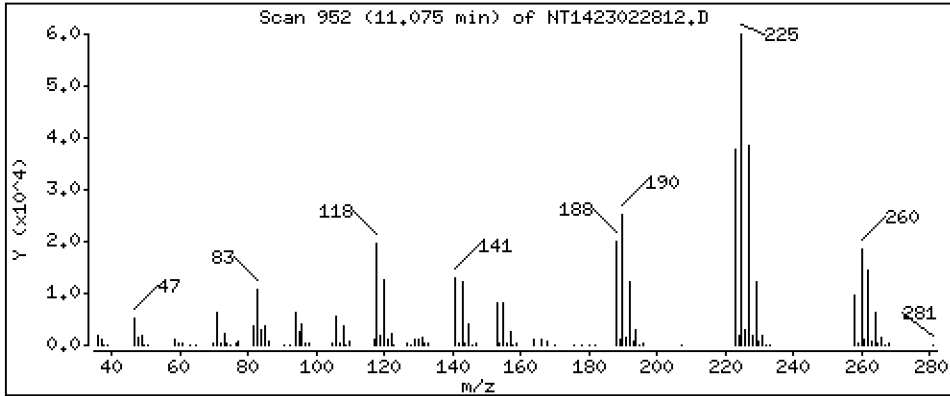
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,803 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

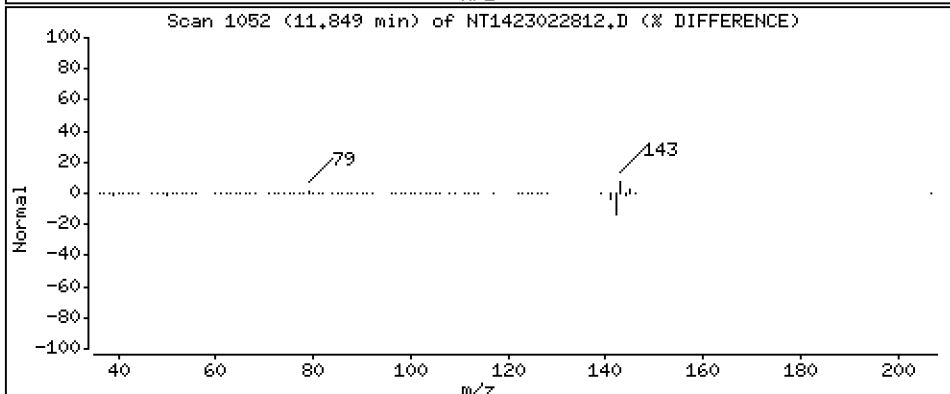
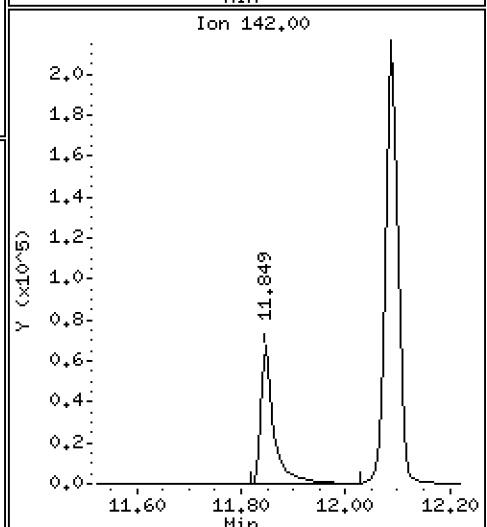
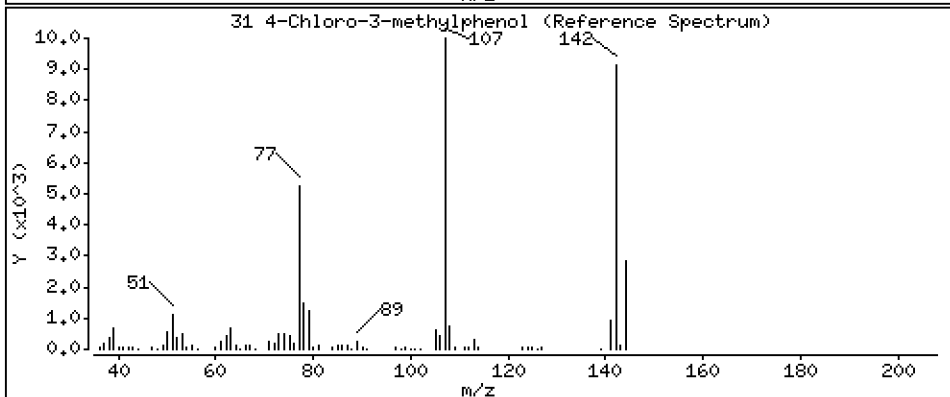
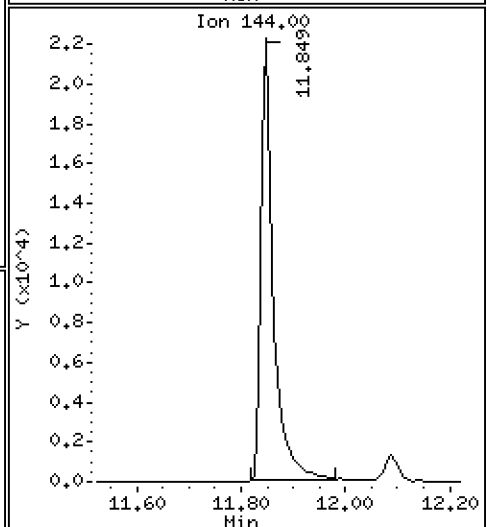
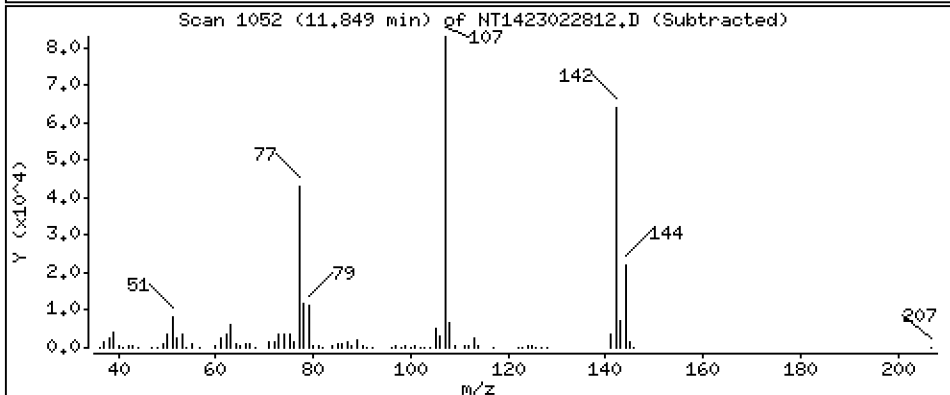
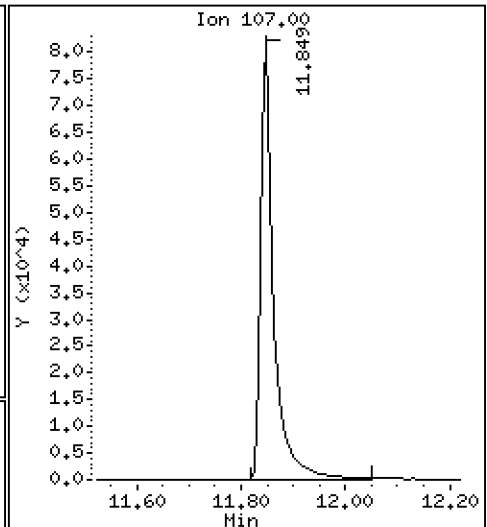
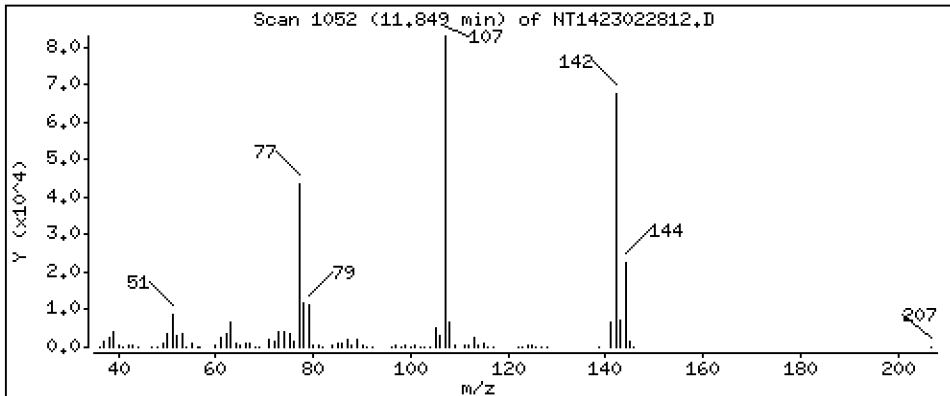
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 4.860 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

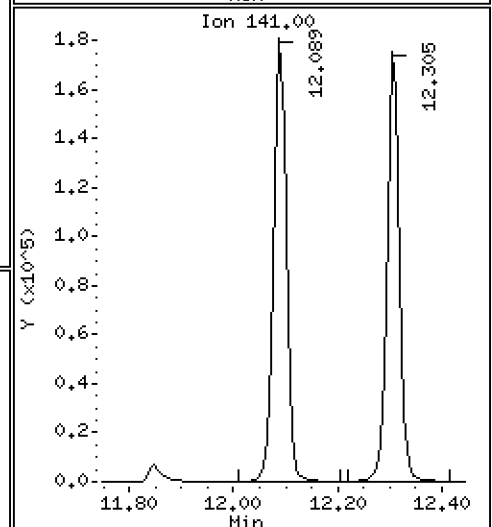
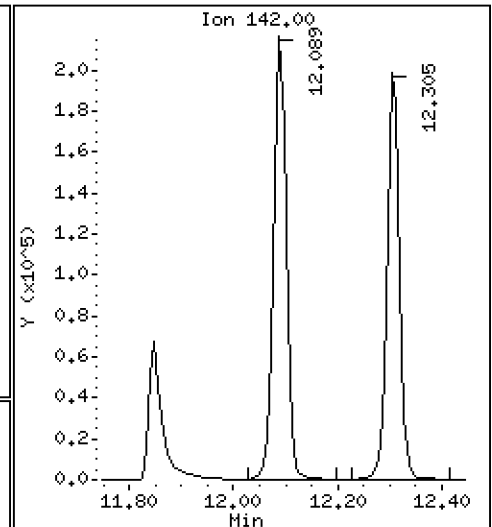
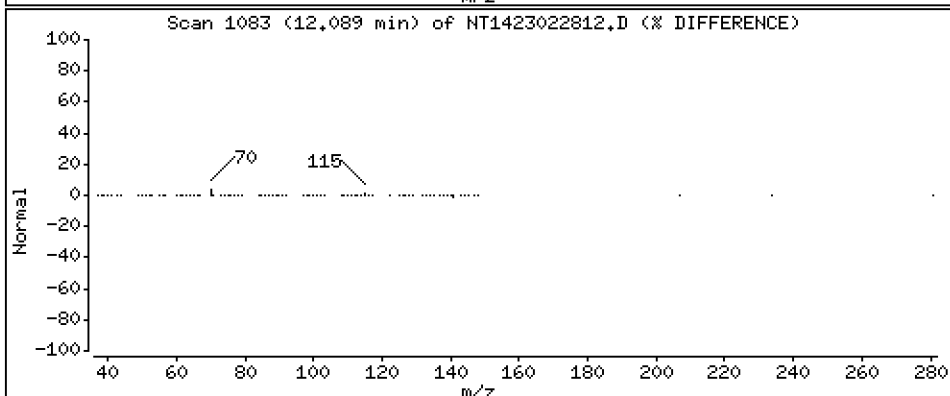
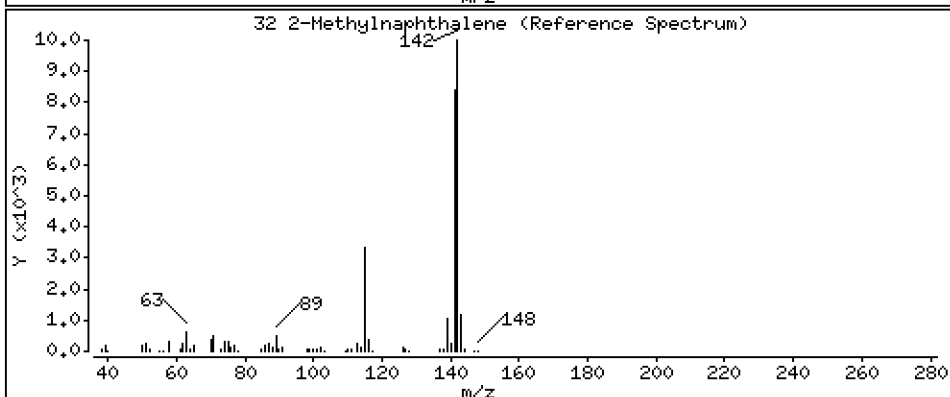
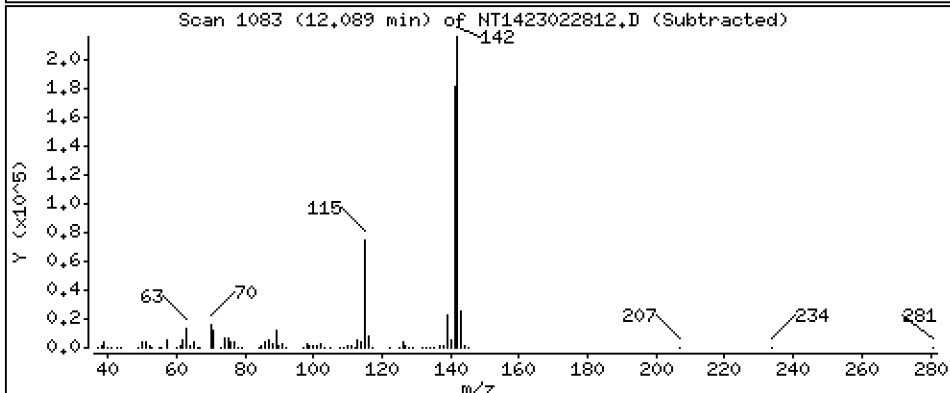
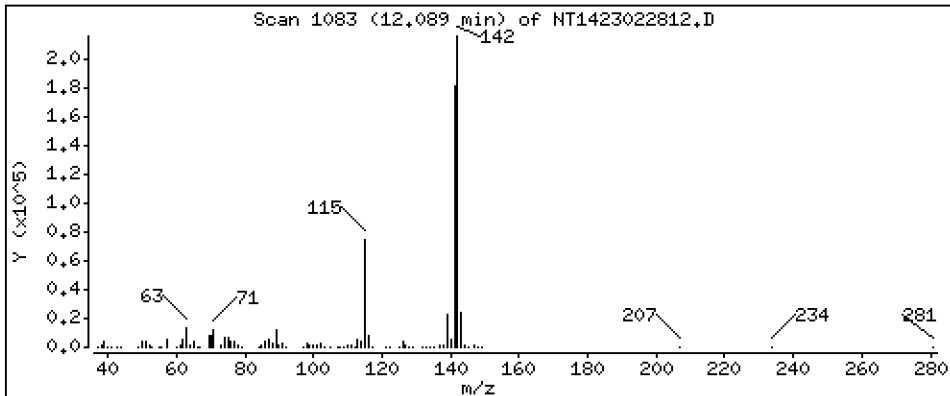
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,625 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

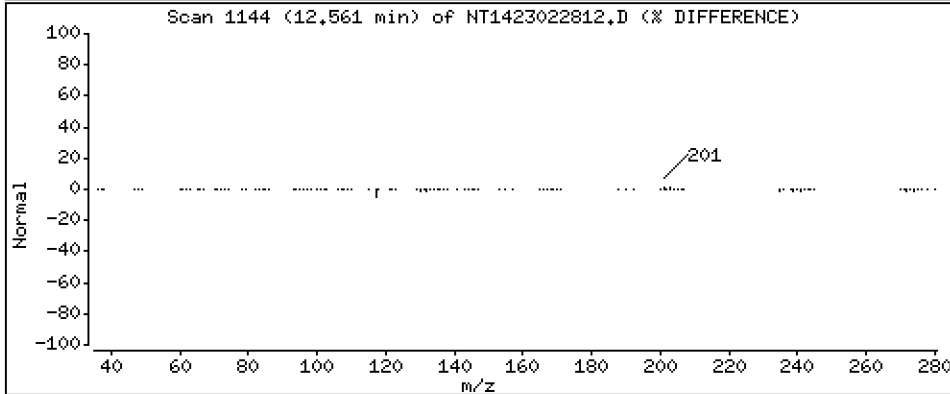
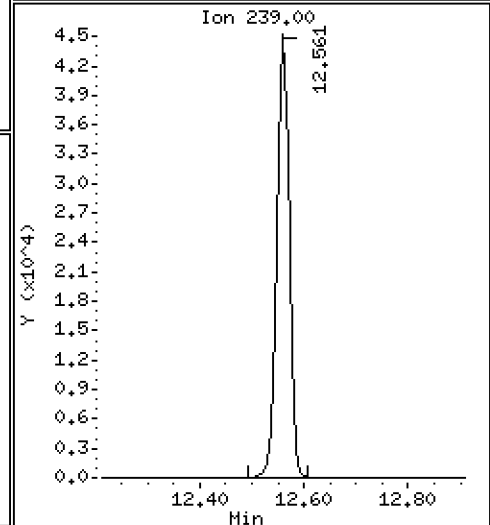
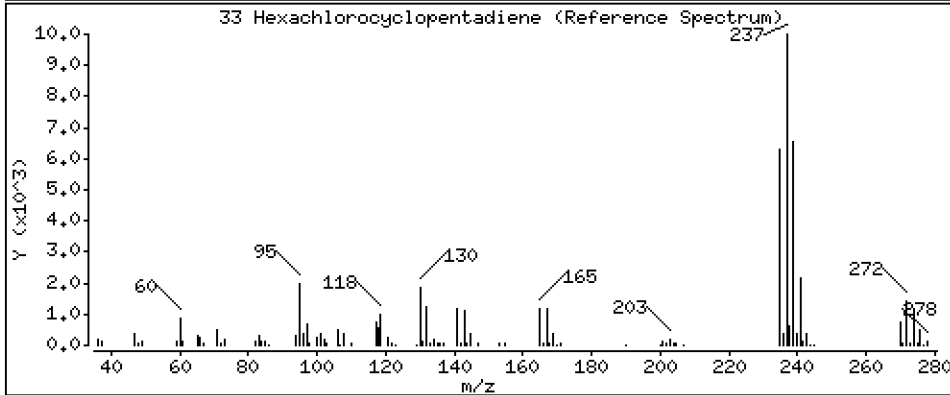
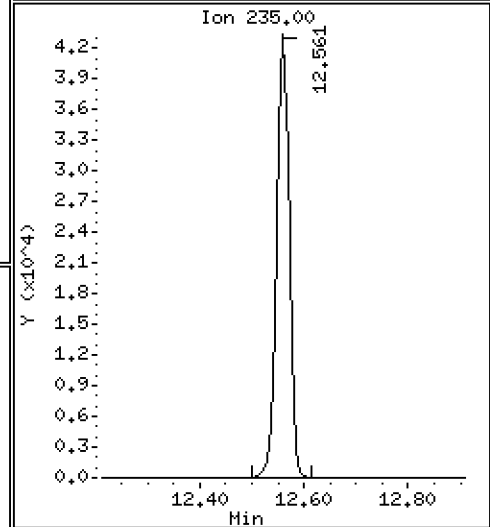
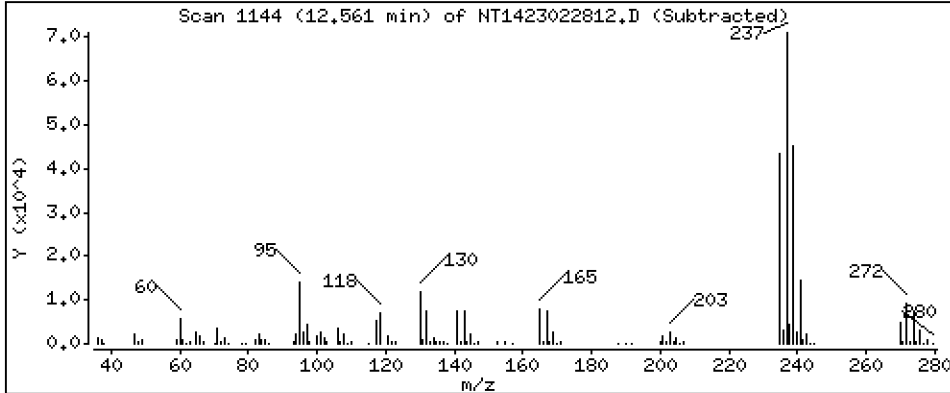
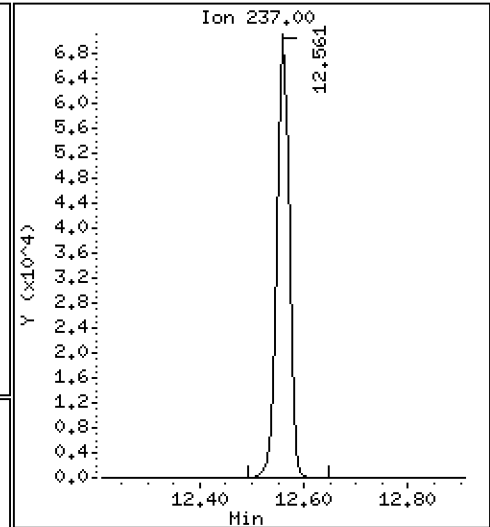
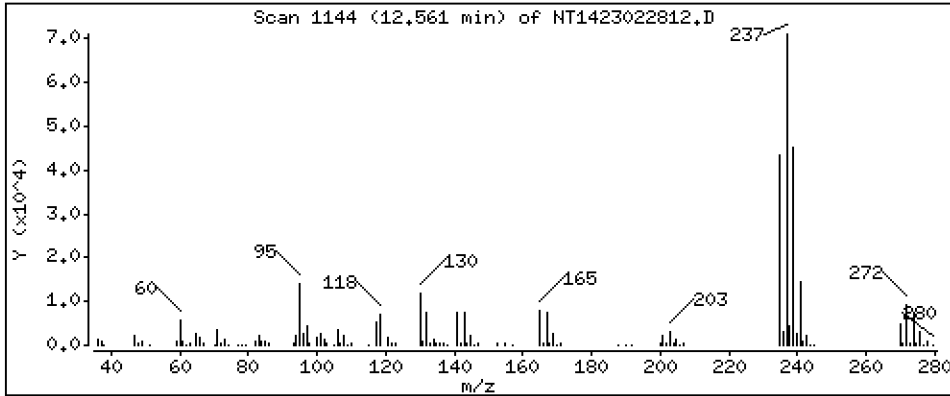
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 4,533 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

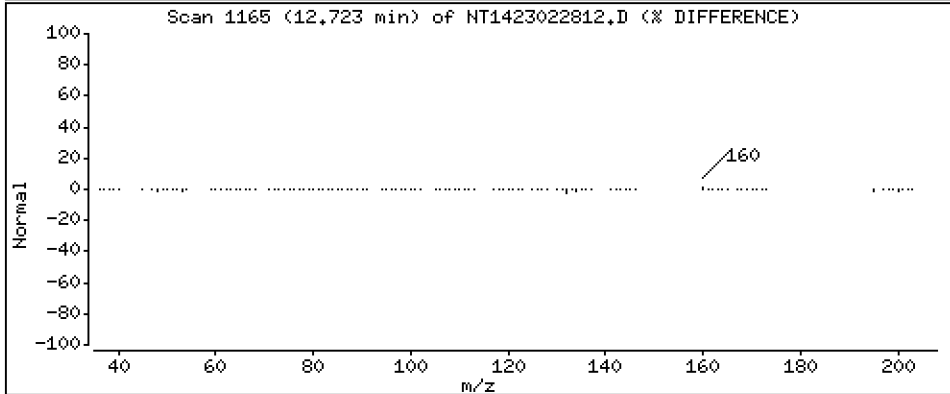
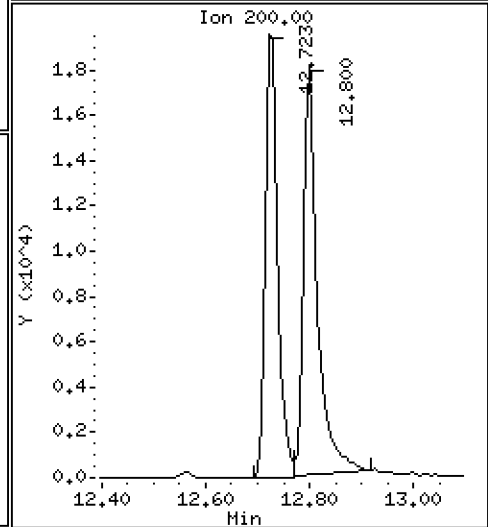
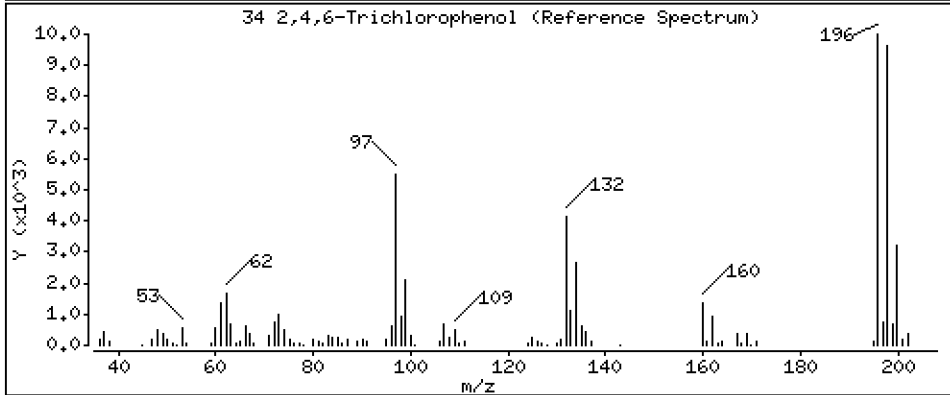
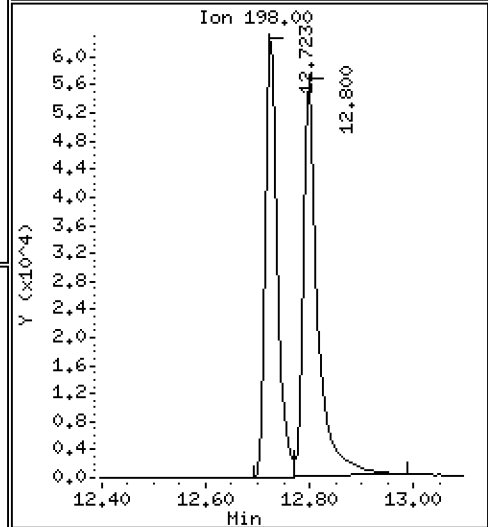
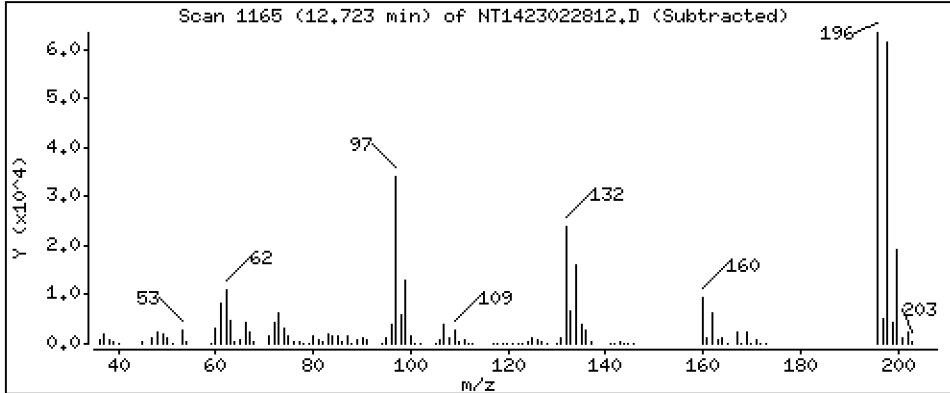
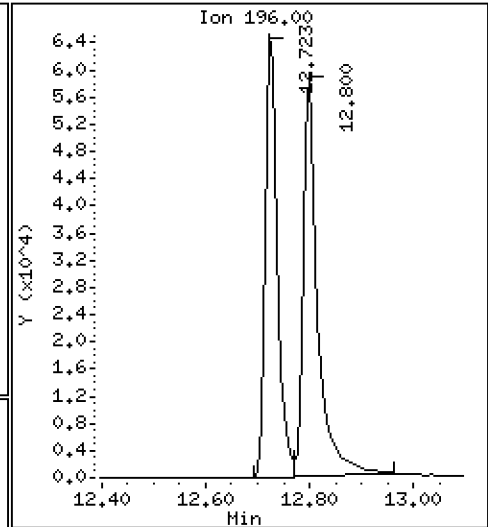
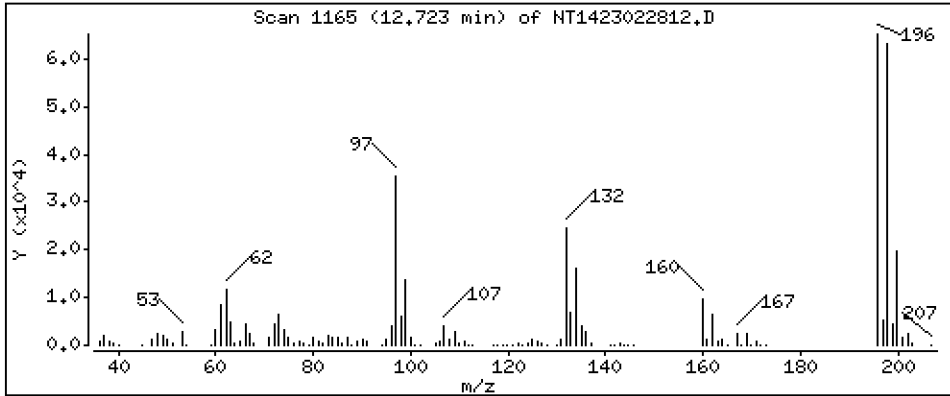
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 4,788 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

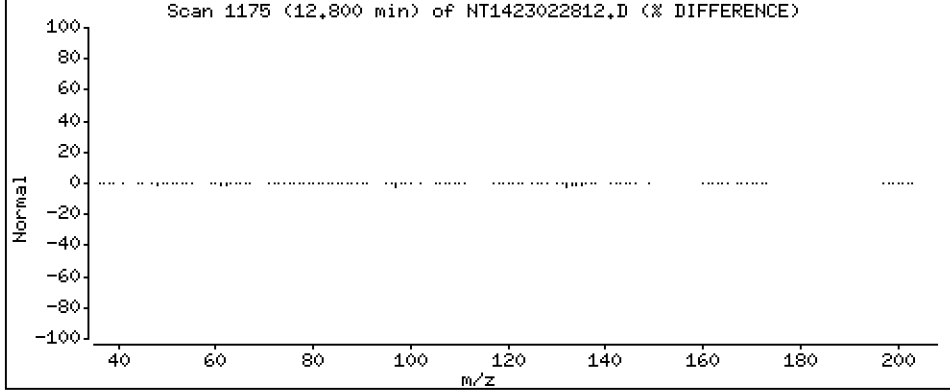
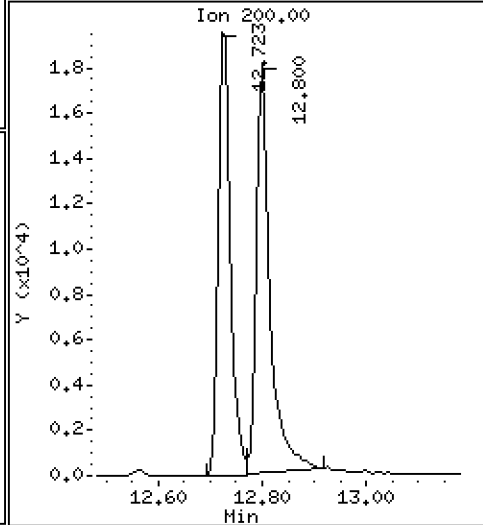
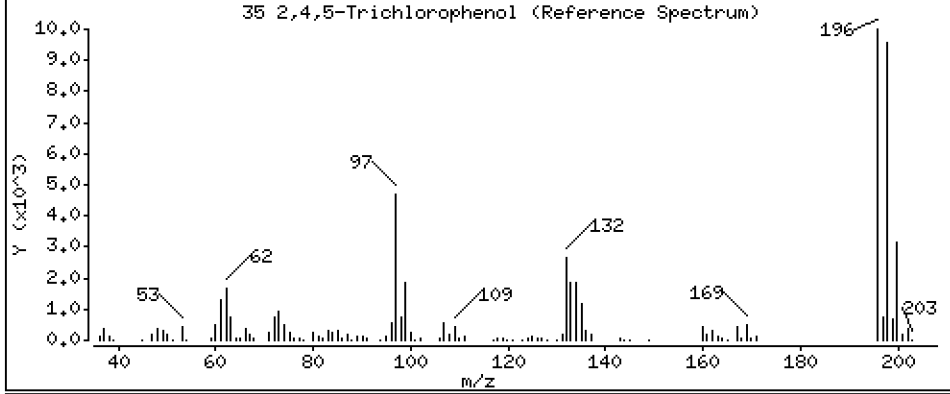
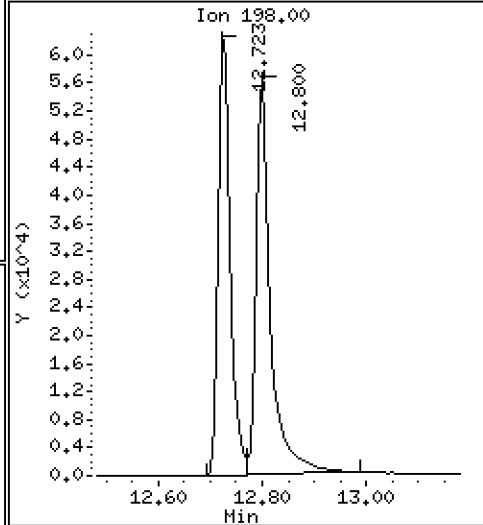
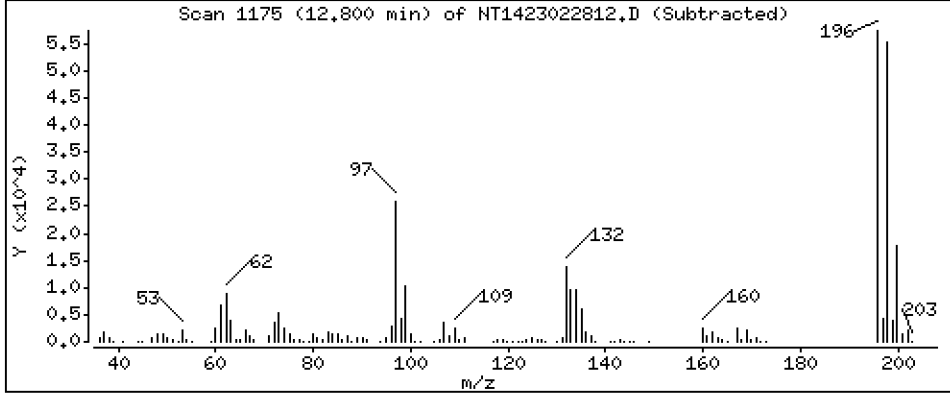
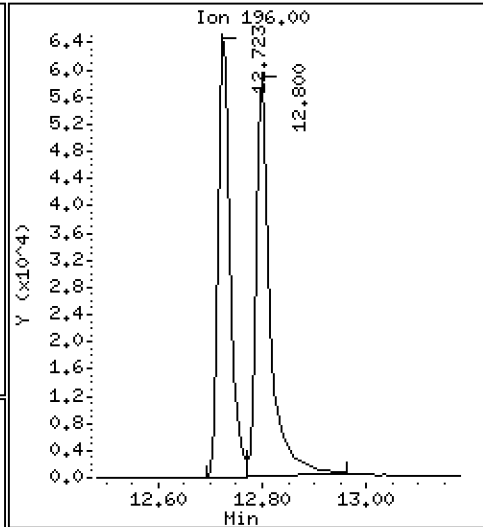
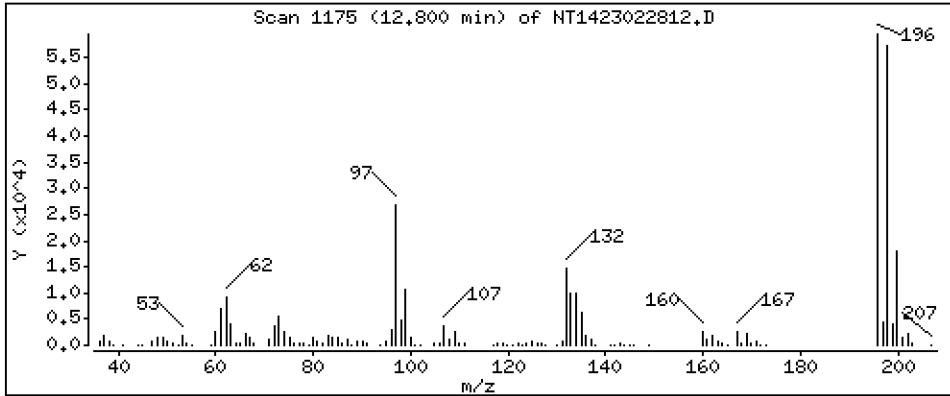
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 4,669 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

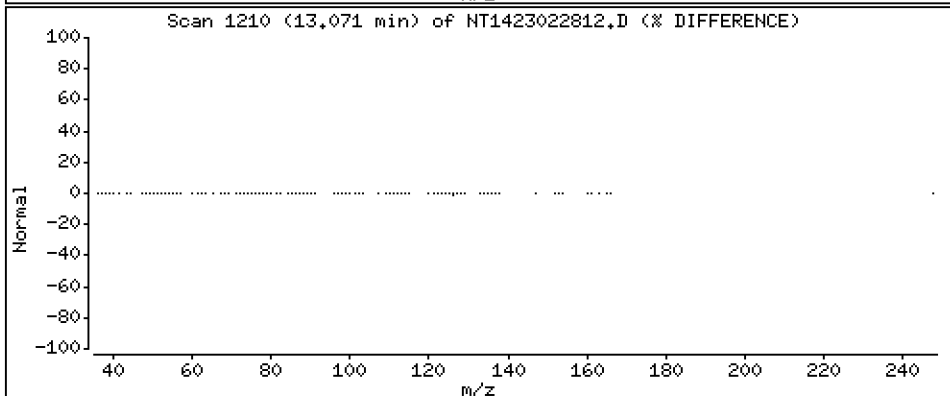
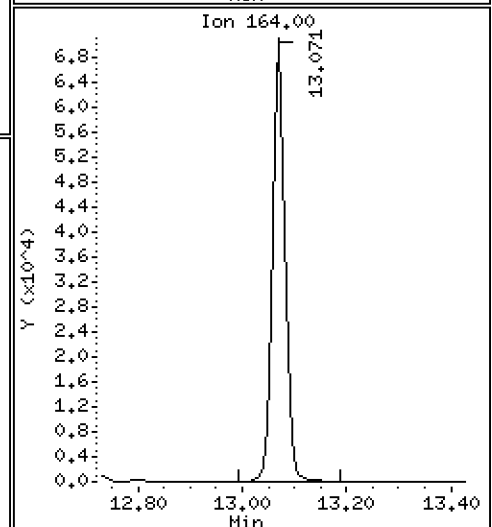
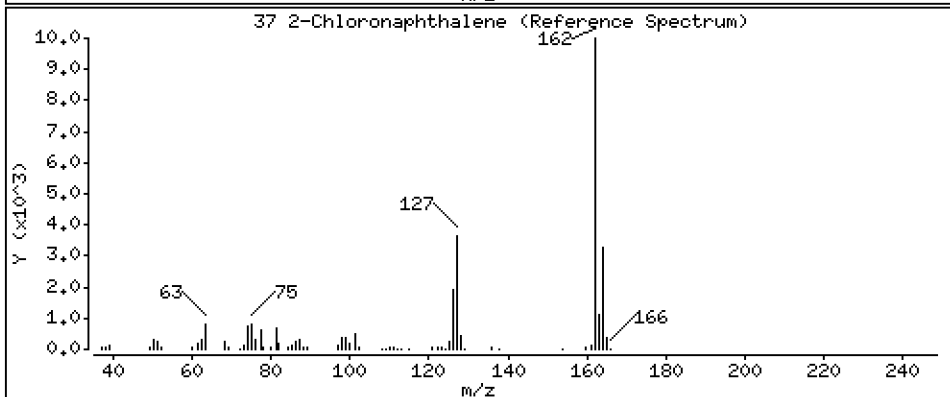
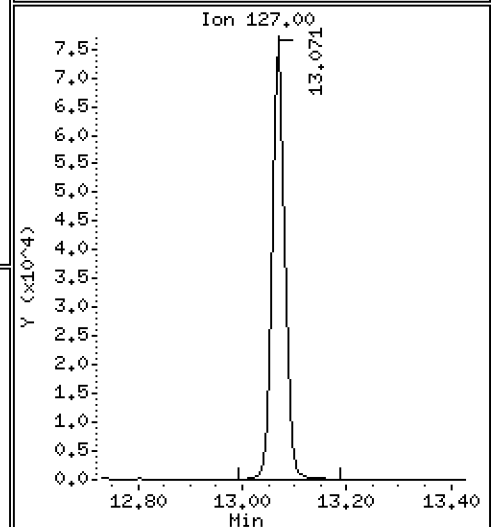
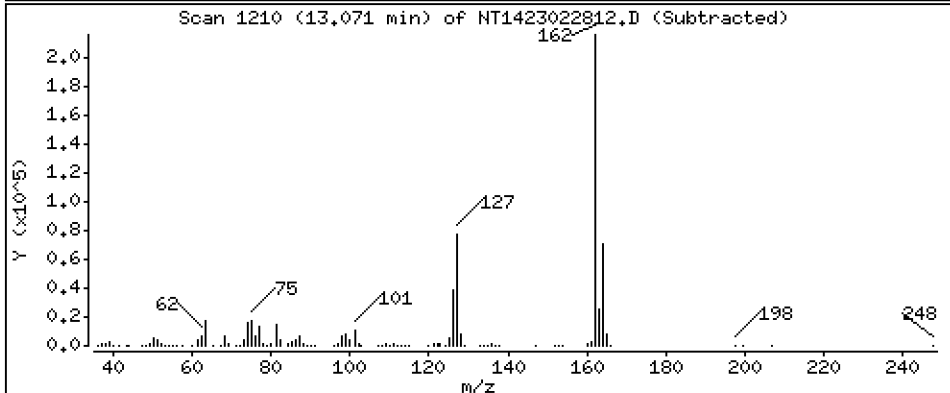
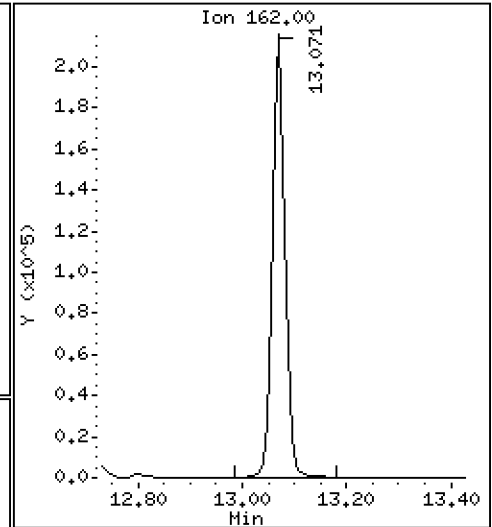
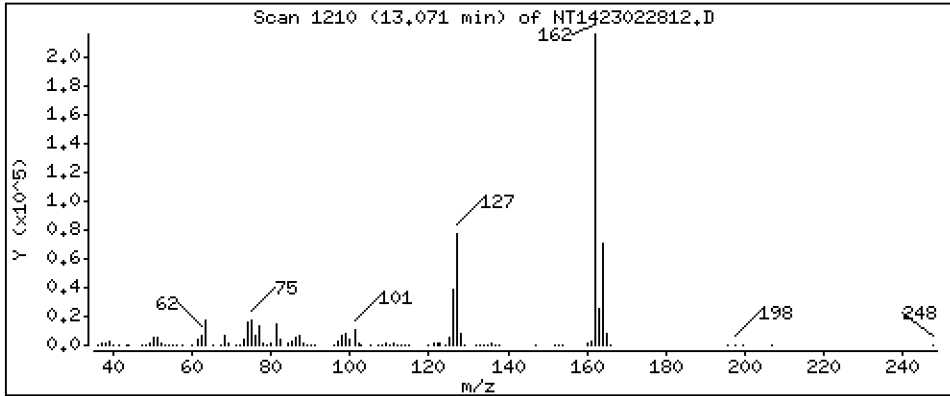
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,911 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

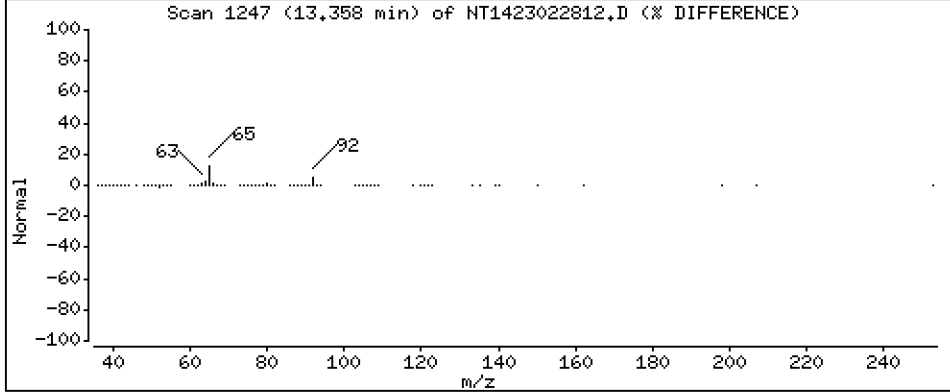
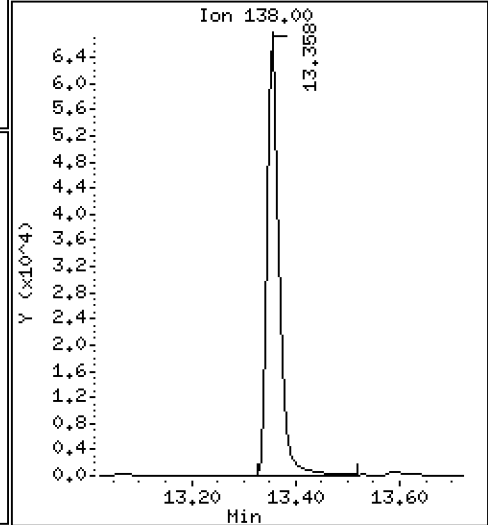
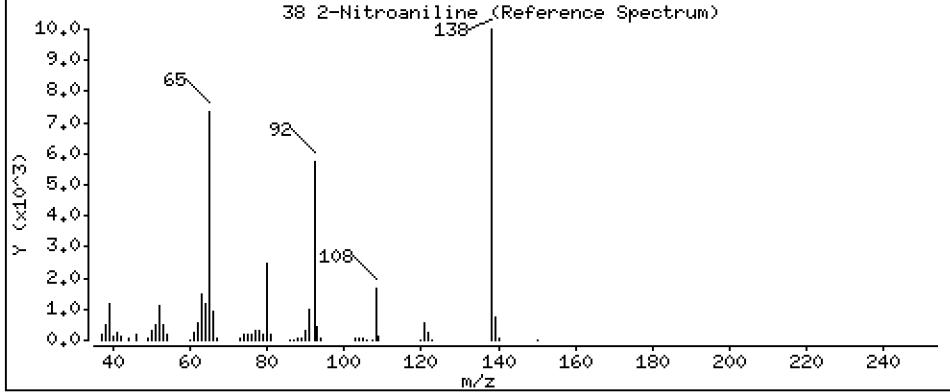
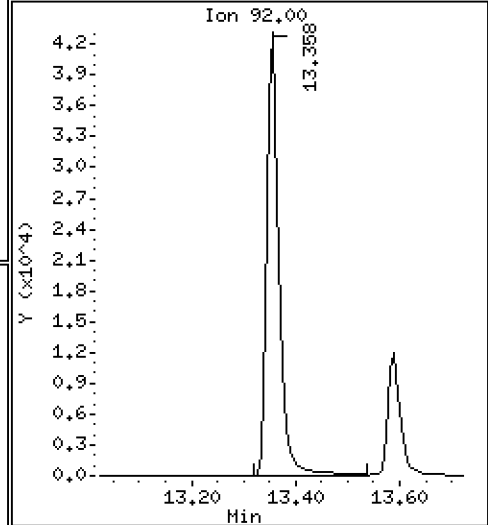
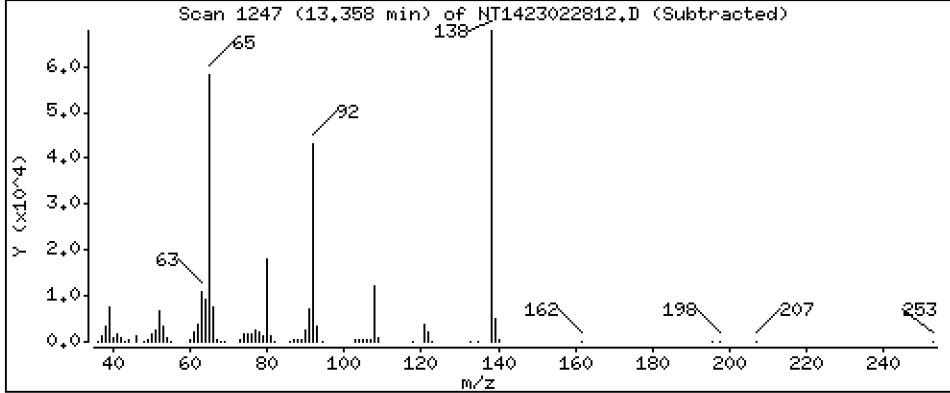
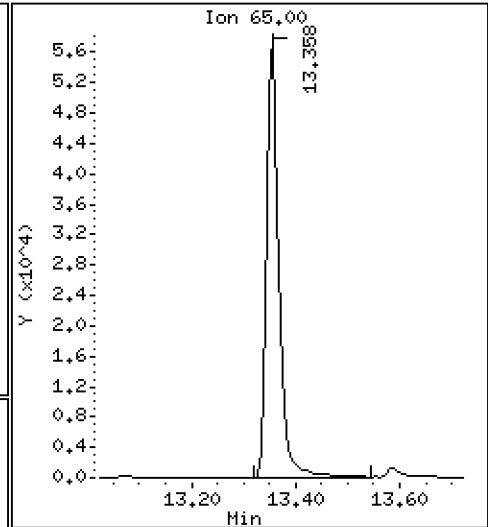
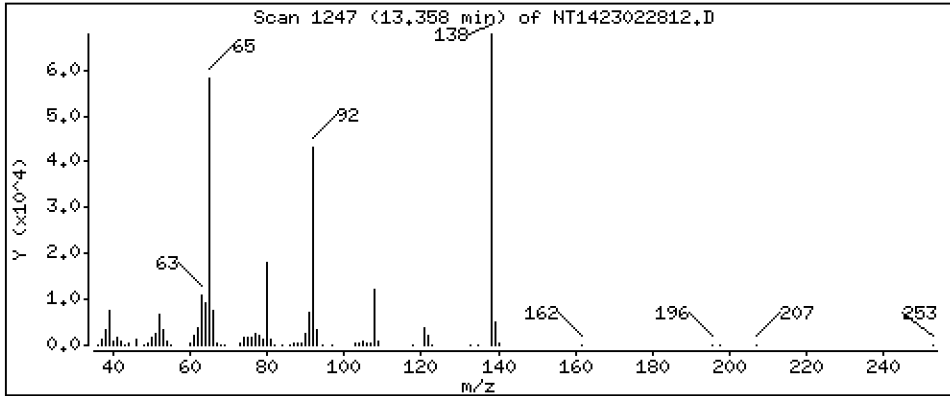
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 4,980 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

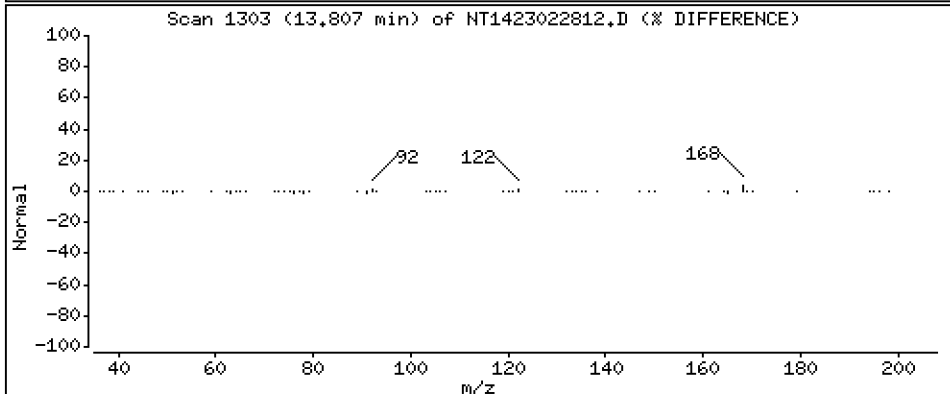
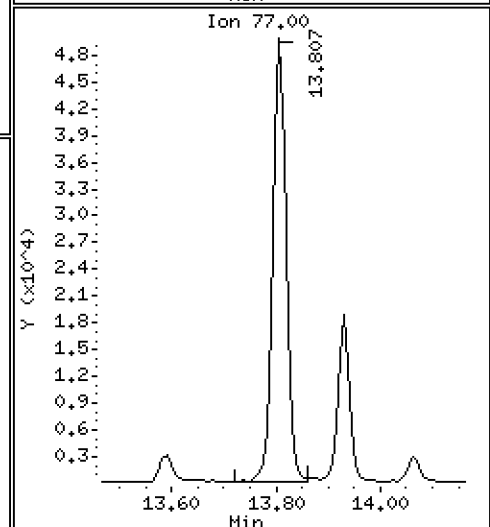
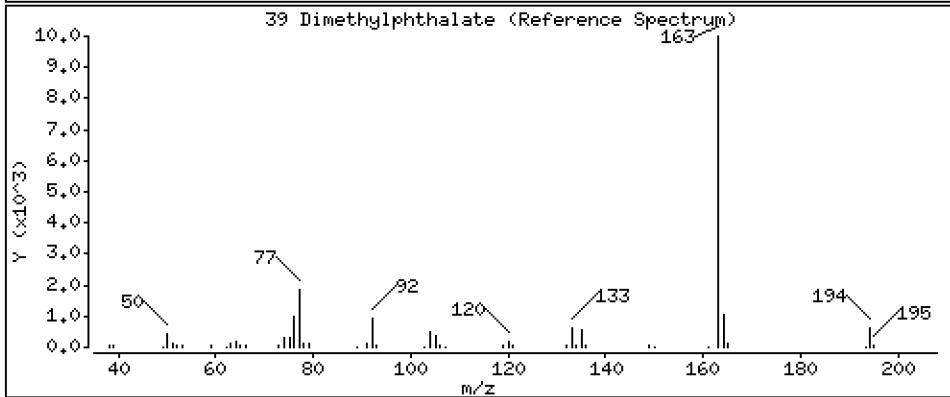
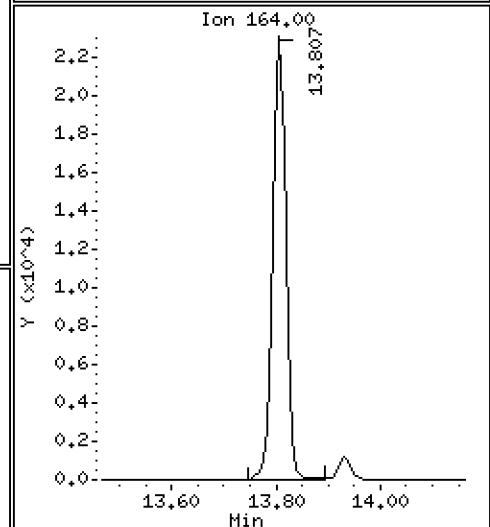
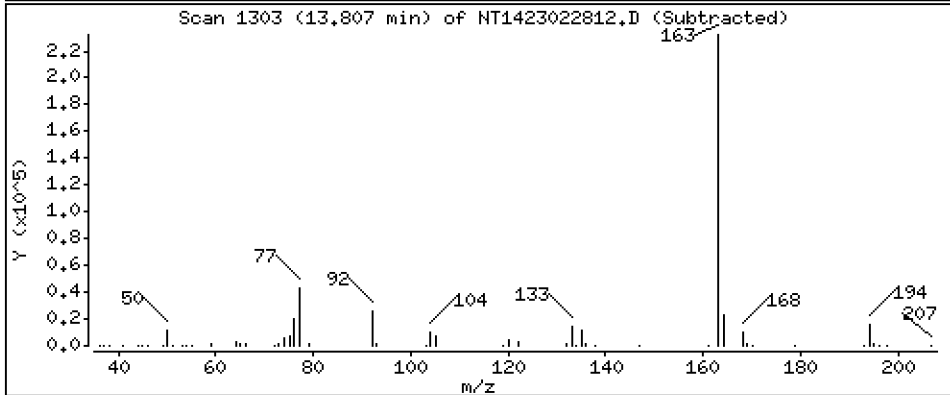
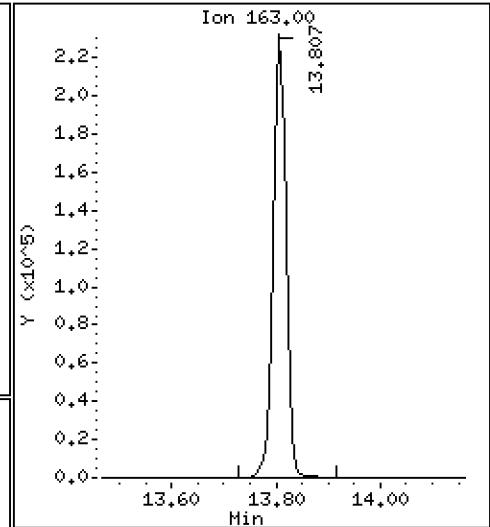
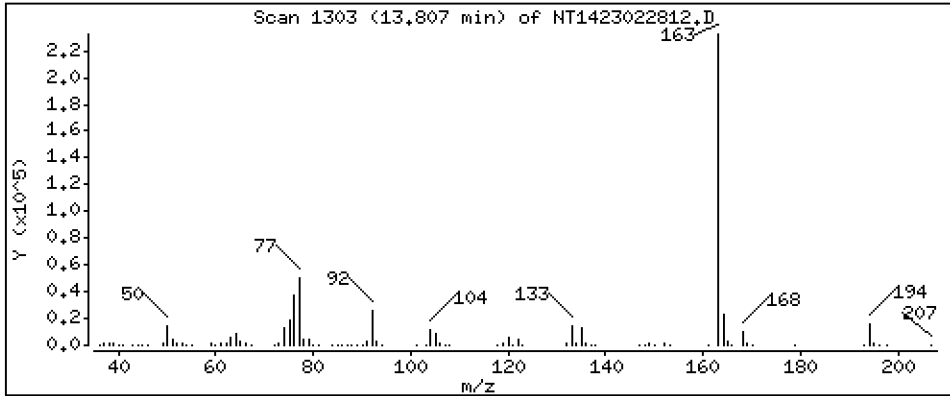
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,206 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

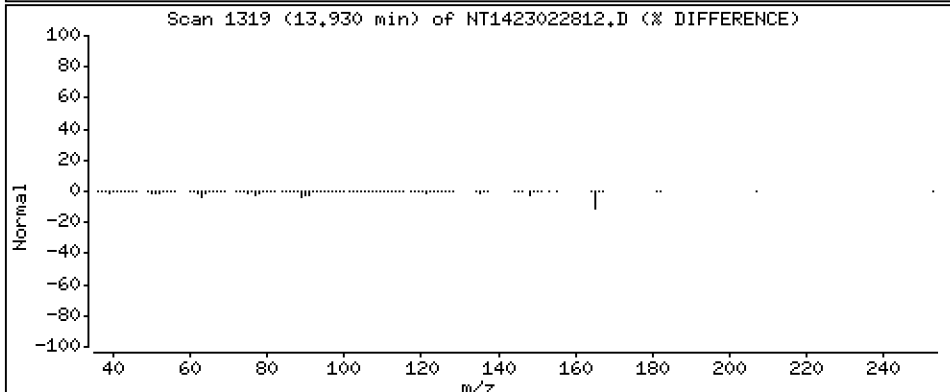
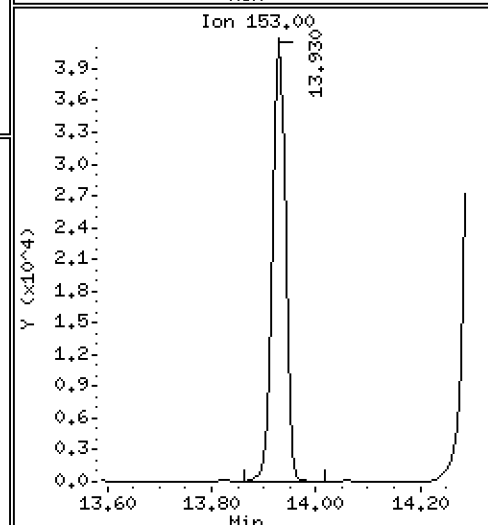
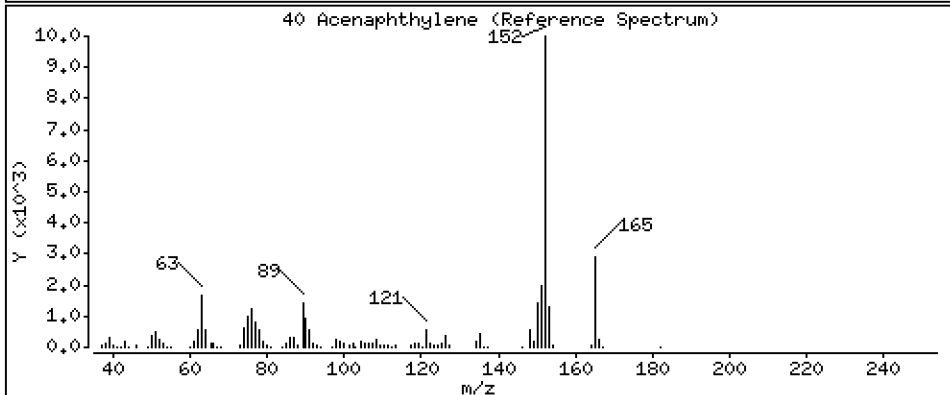
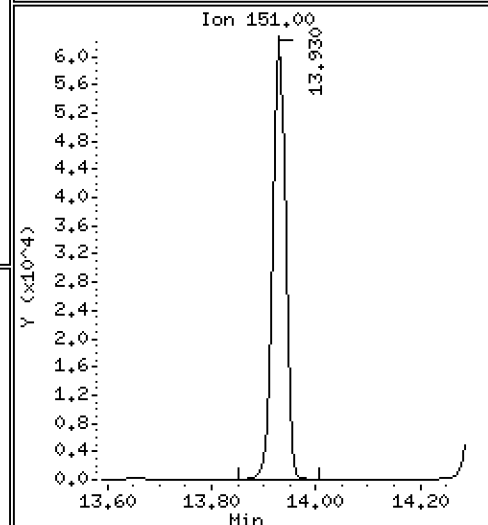
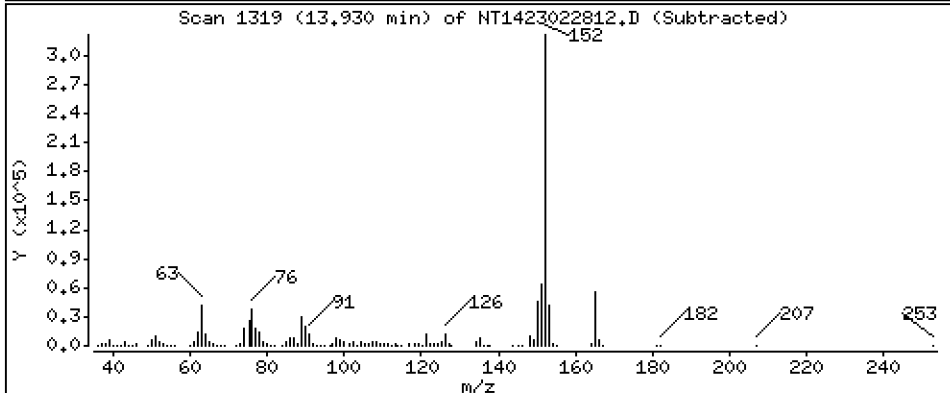
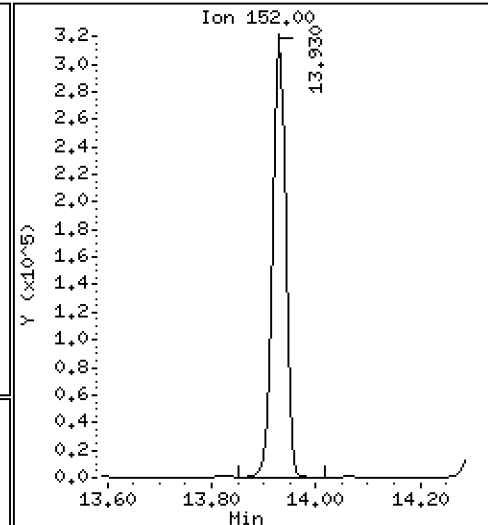
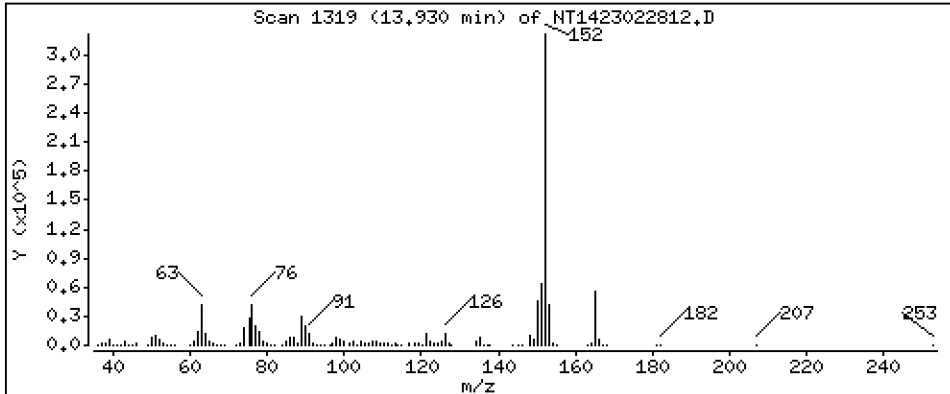
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,975 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

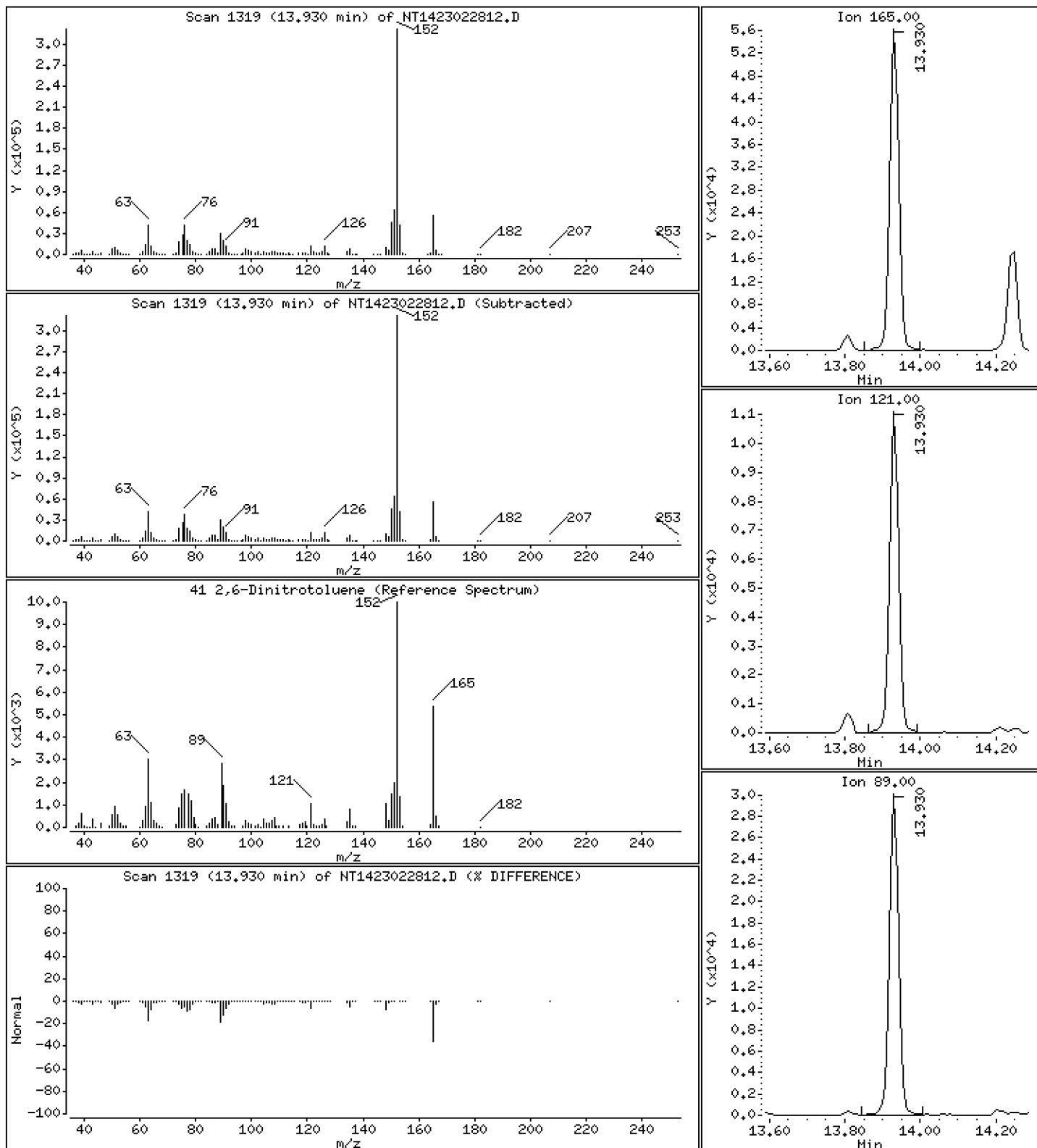
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 5,227 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

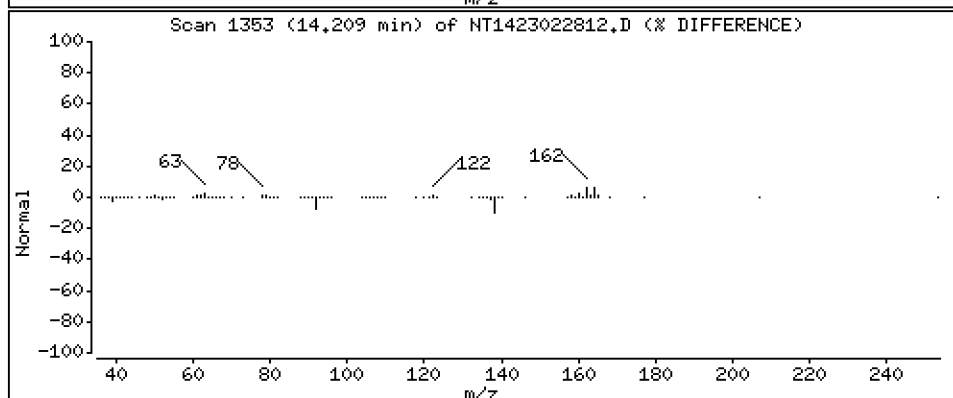
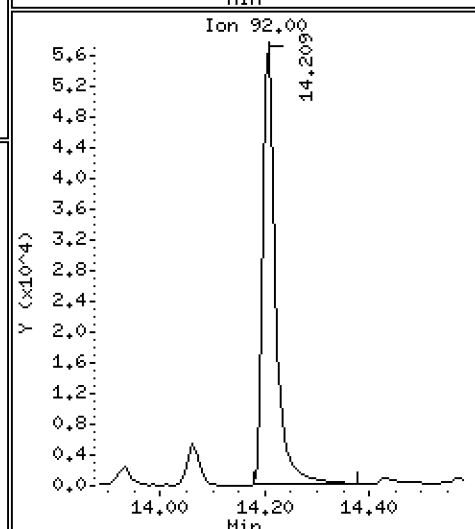
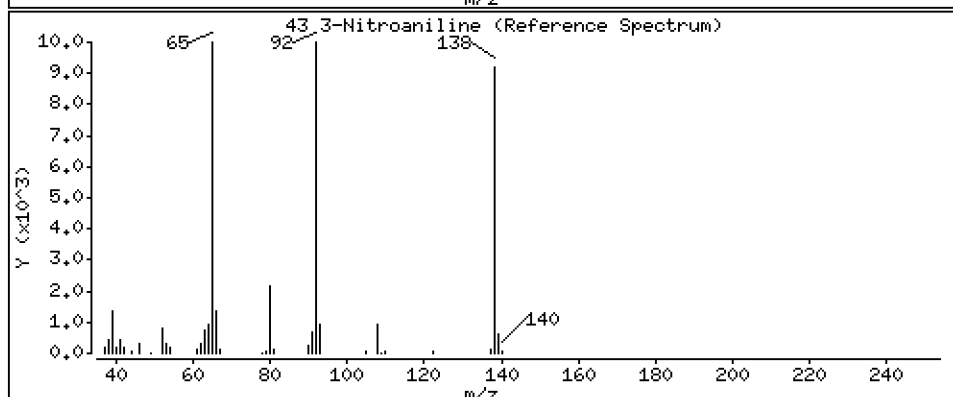
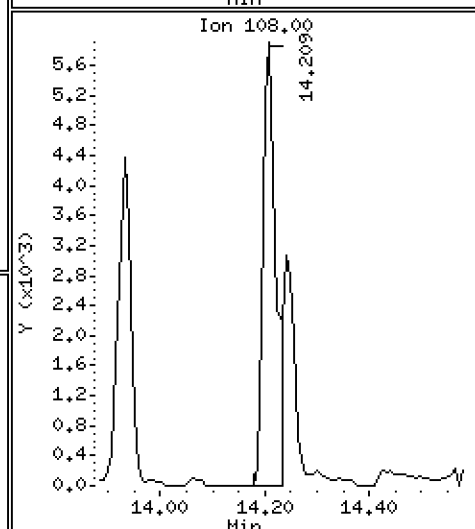
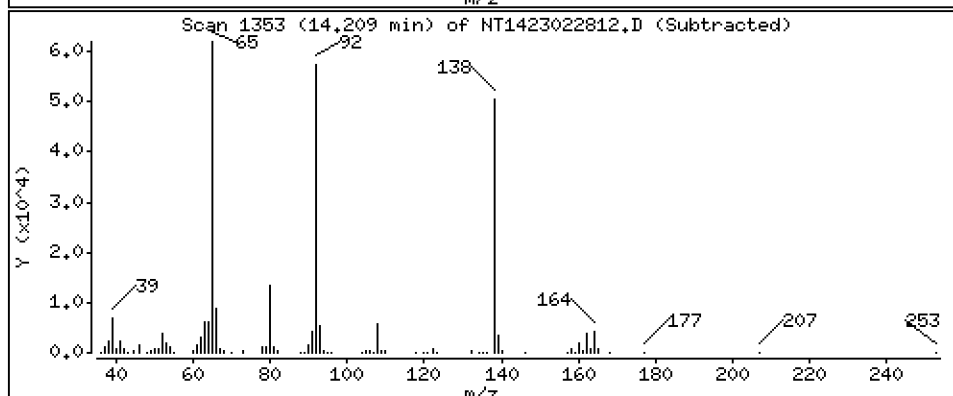
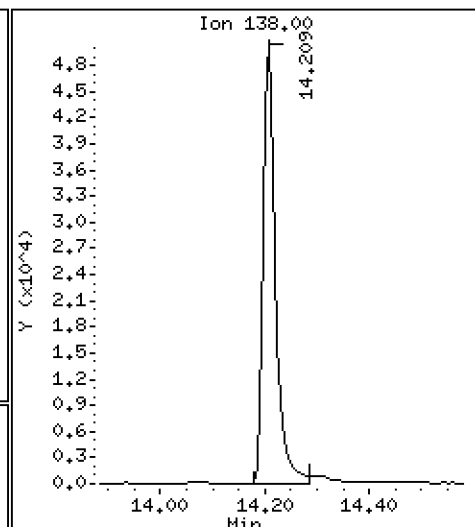
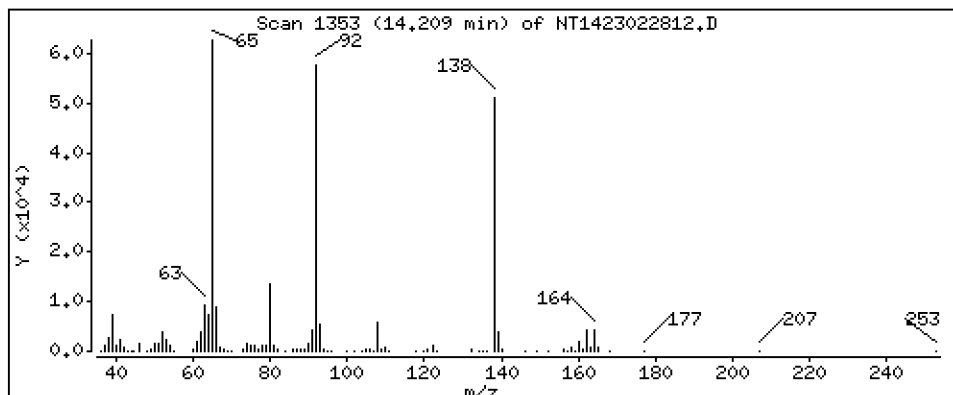
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 4,869 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

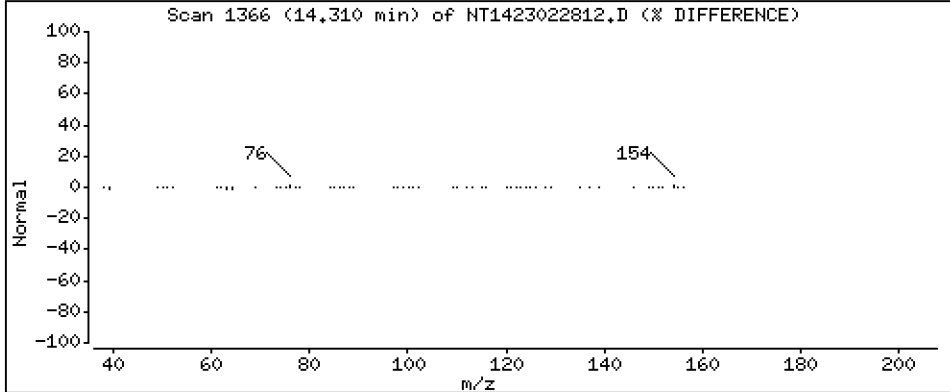
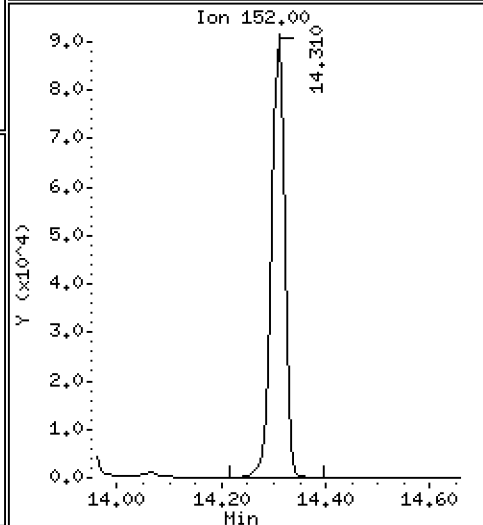
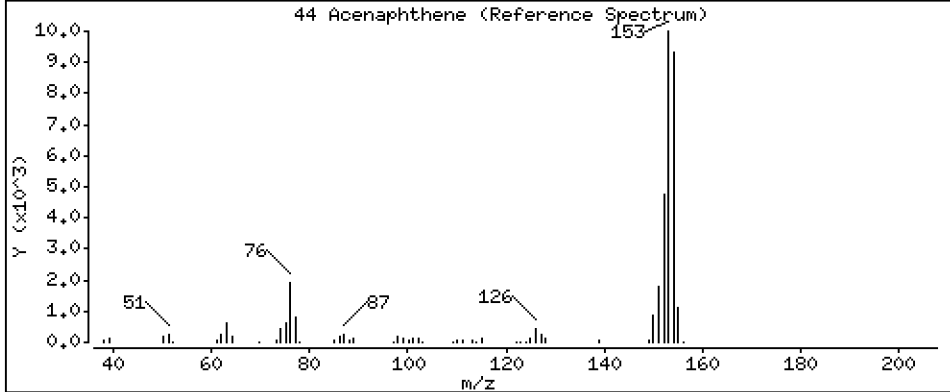
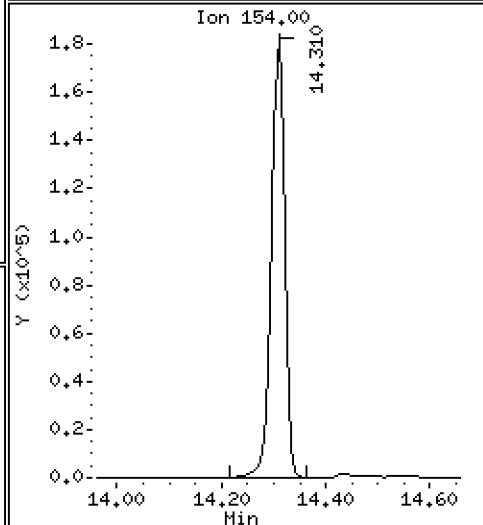
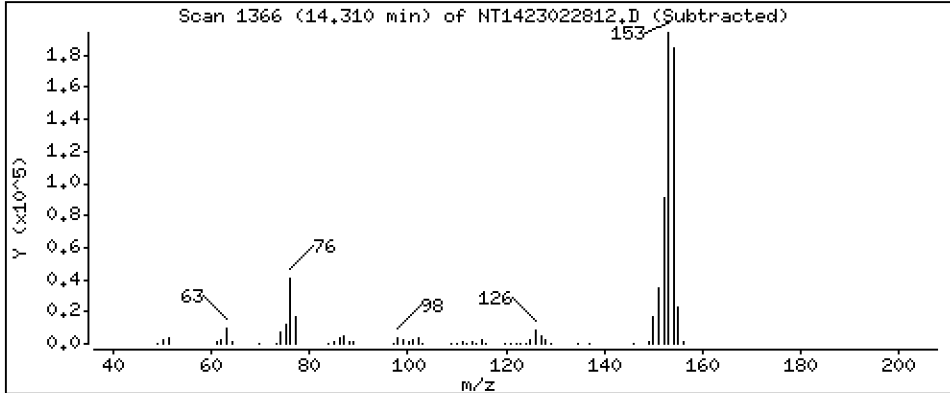
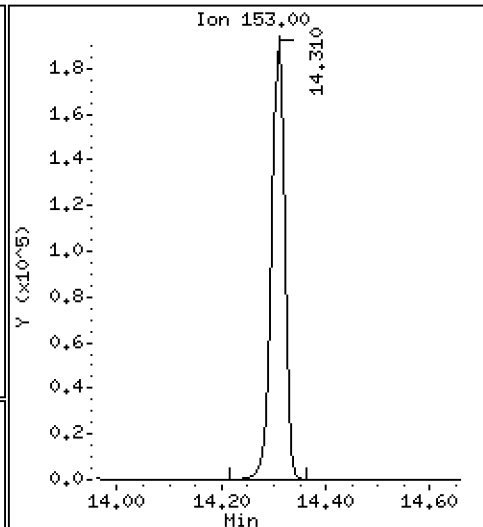
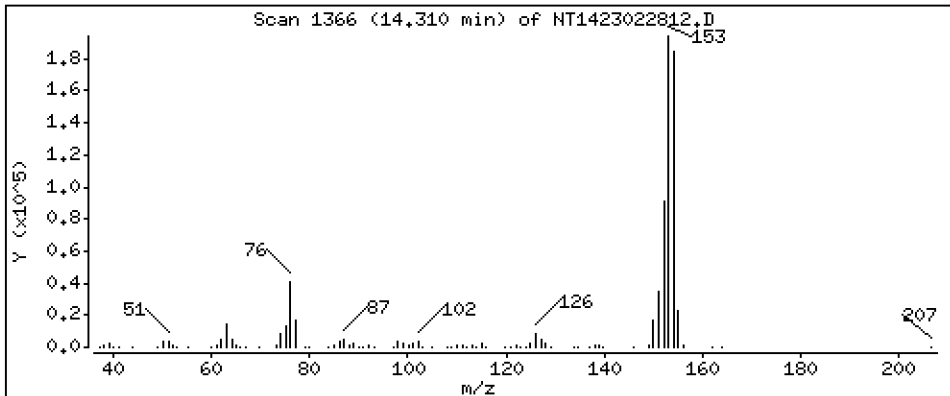
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 4.767 ug/mL



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Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

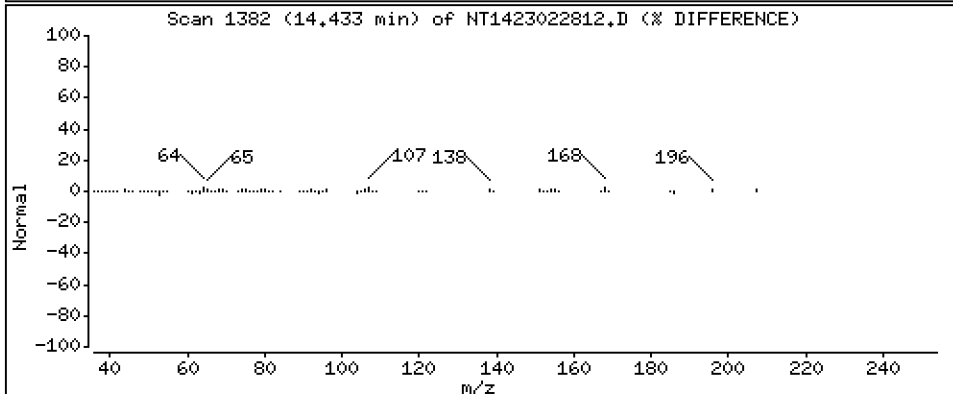
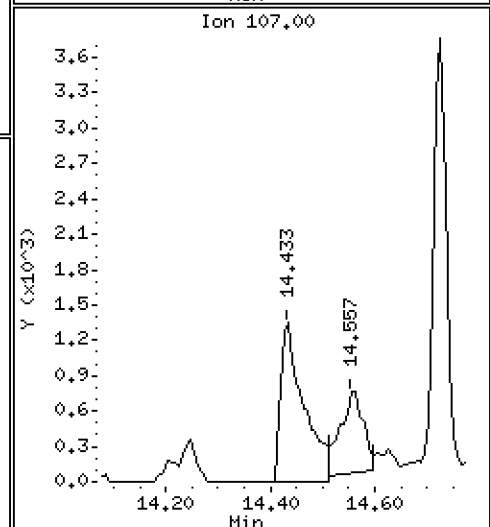
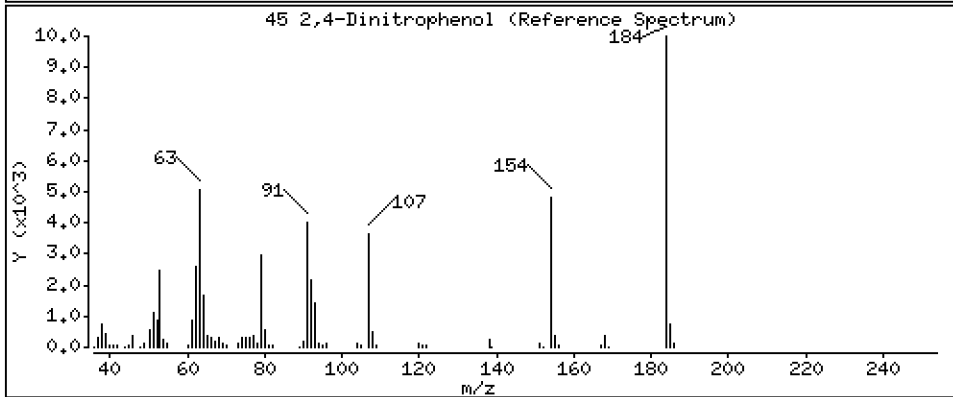
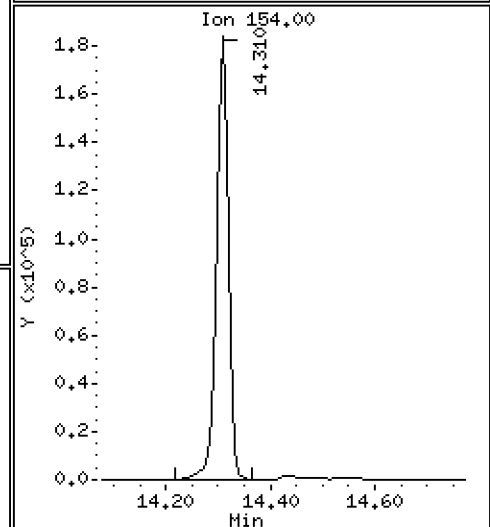
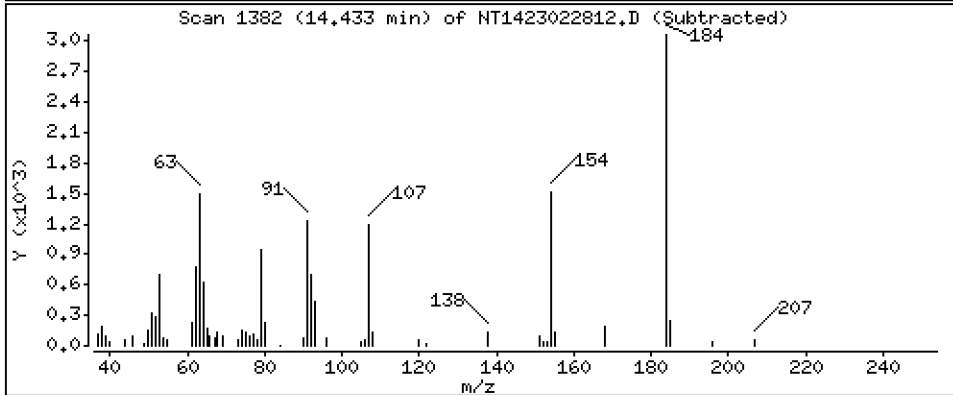
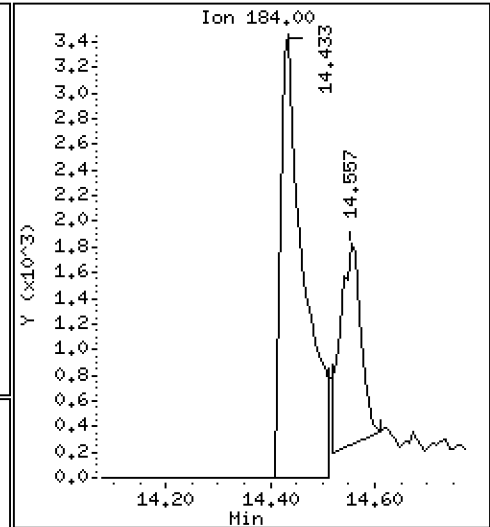
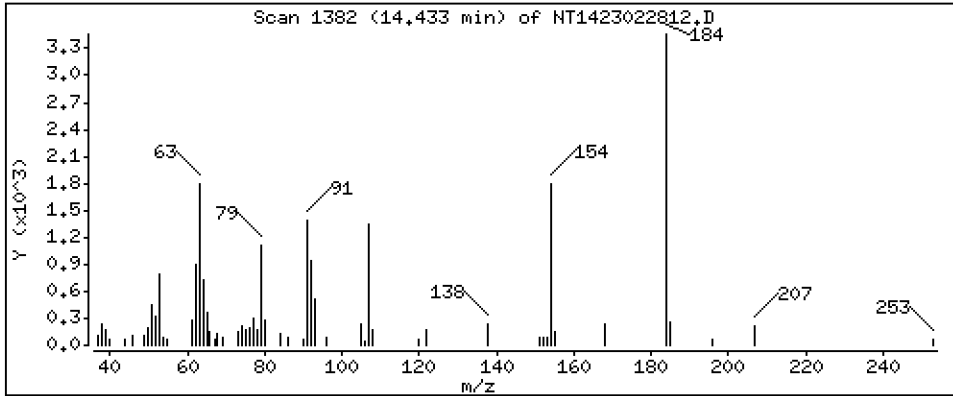
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

45 2,4-Dinitrophenol

Concentration: 0.9807 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

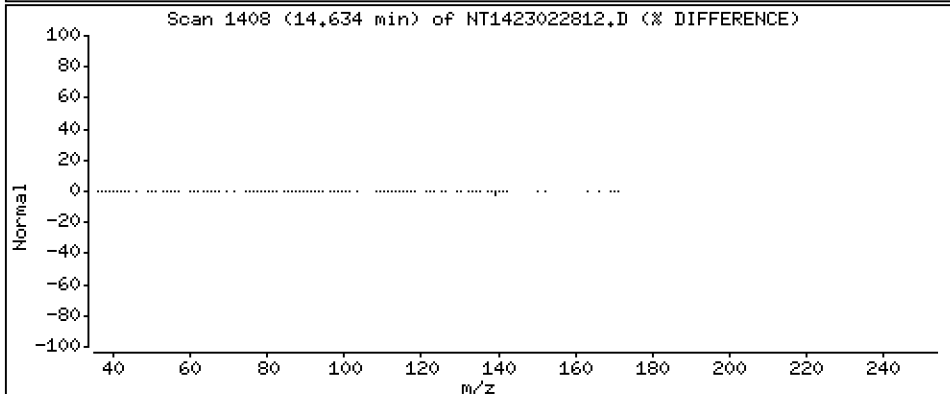
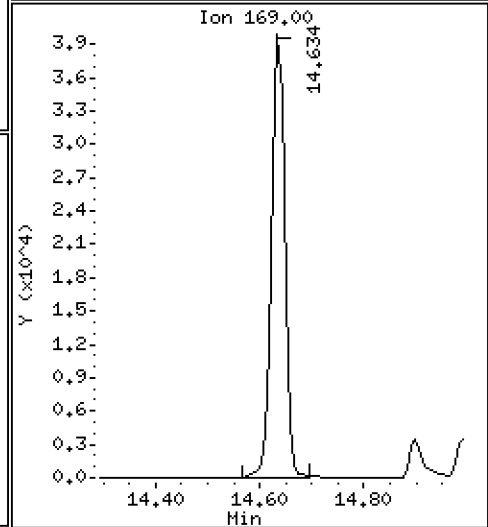
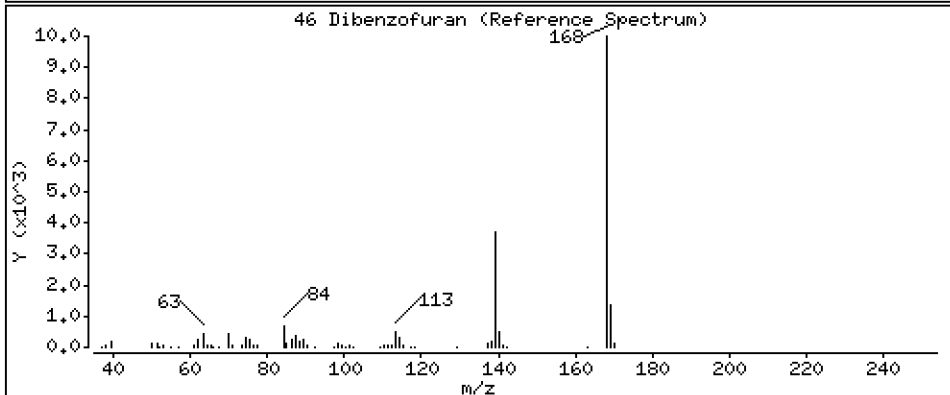
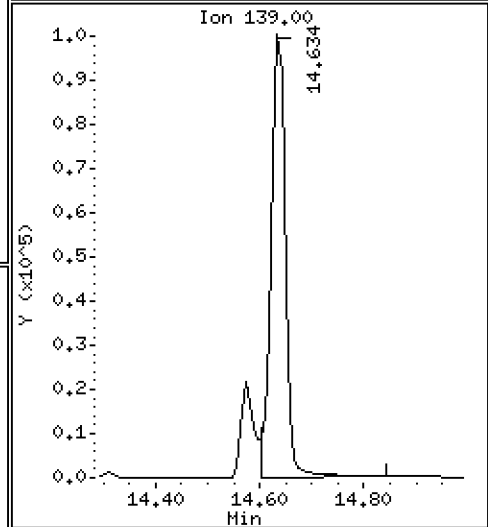
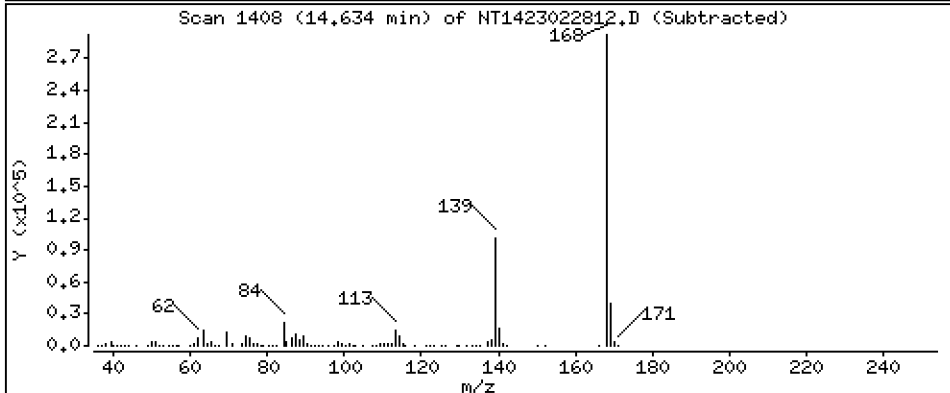
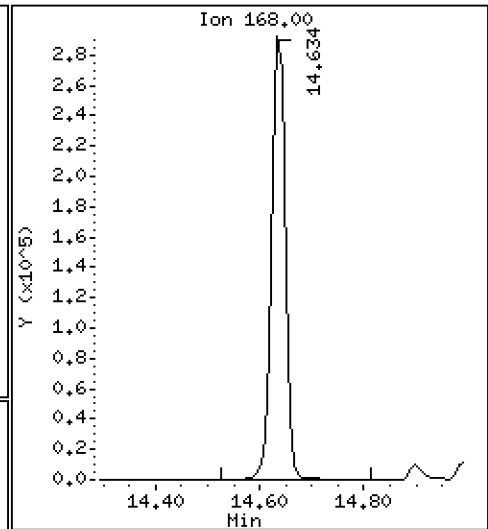
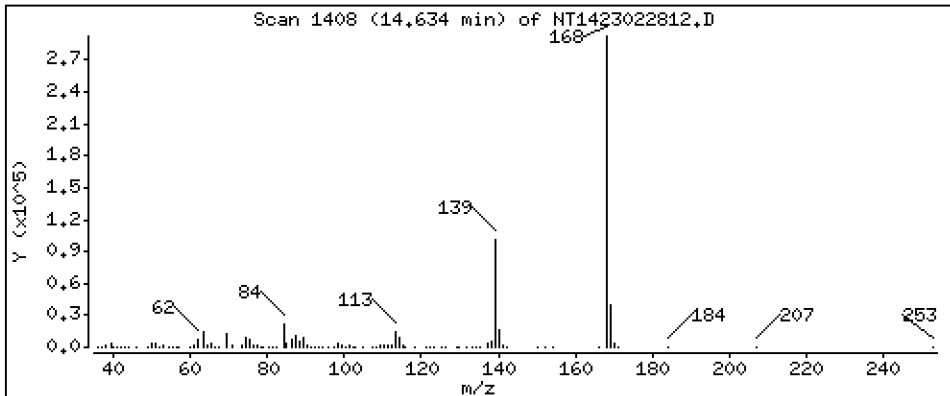
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,718 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

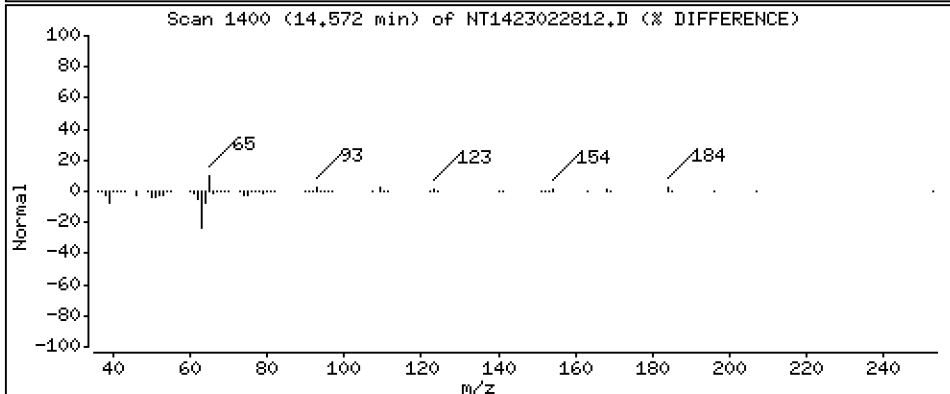
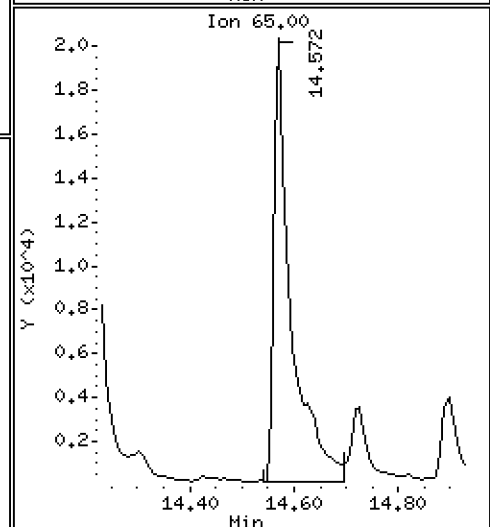
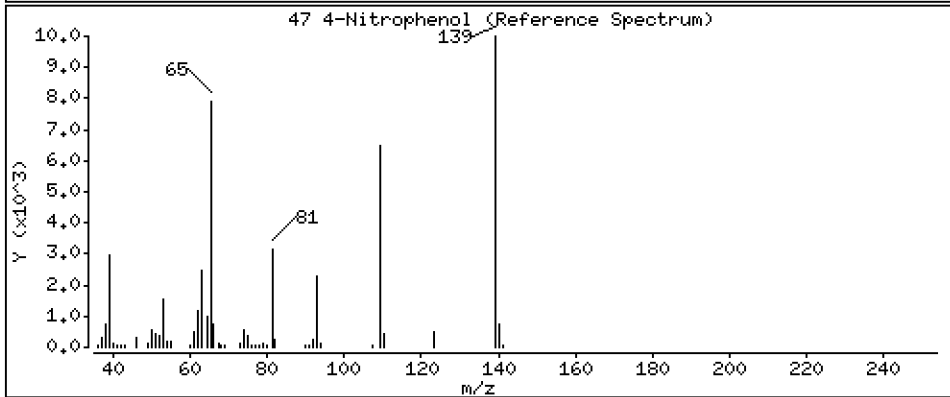
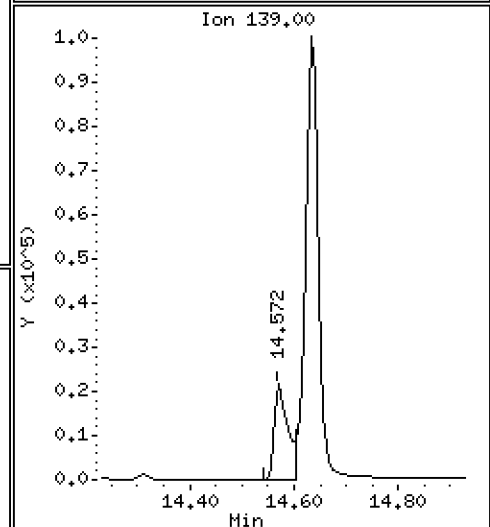
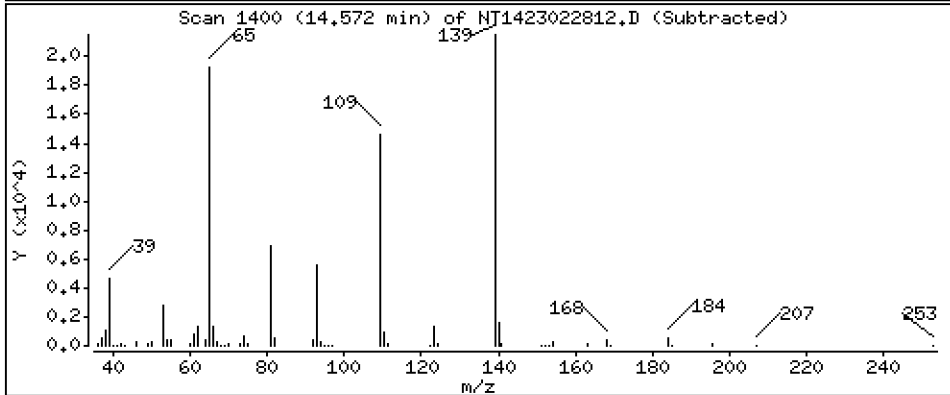
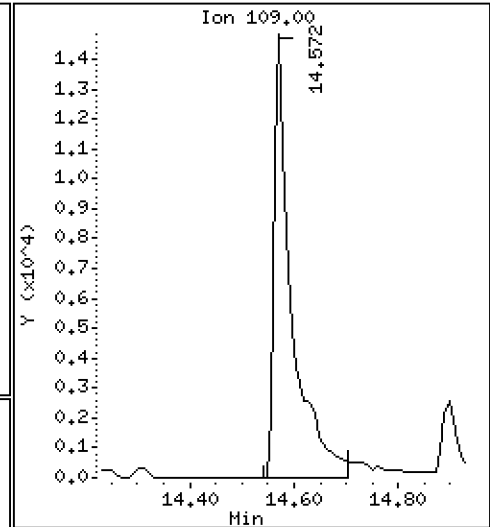
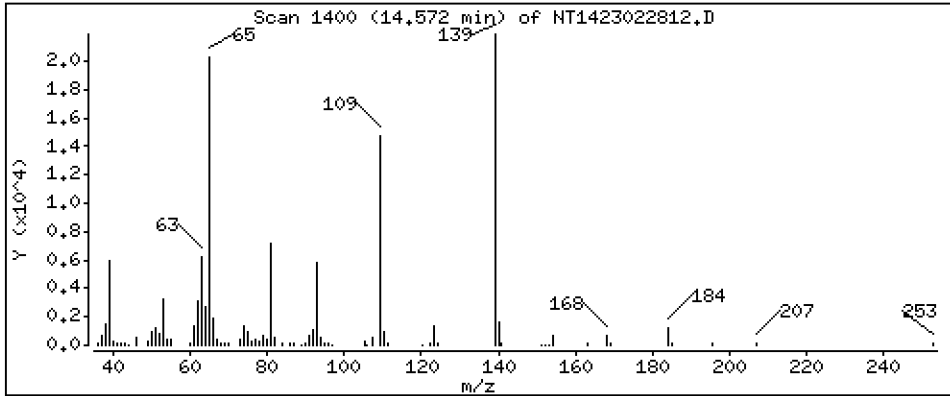
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

47 4-Nitrophenol

Concentration: 3.934 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

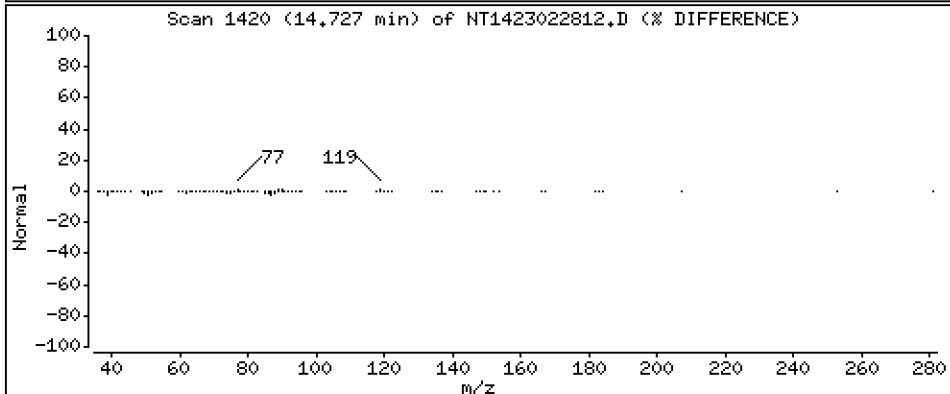
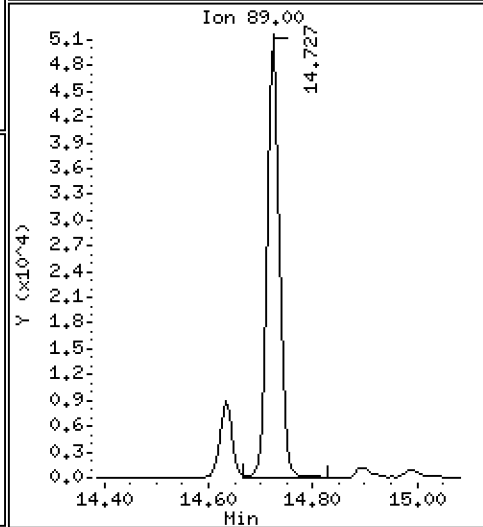
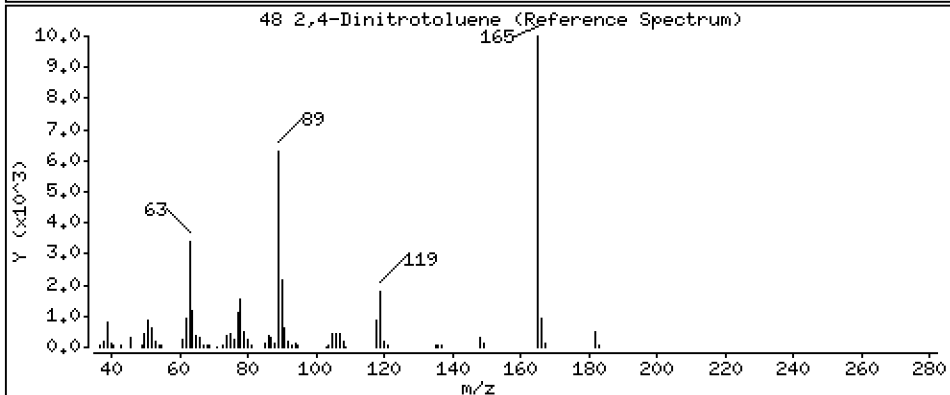
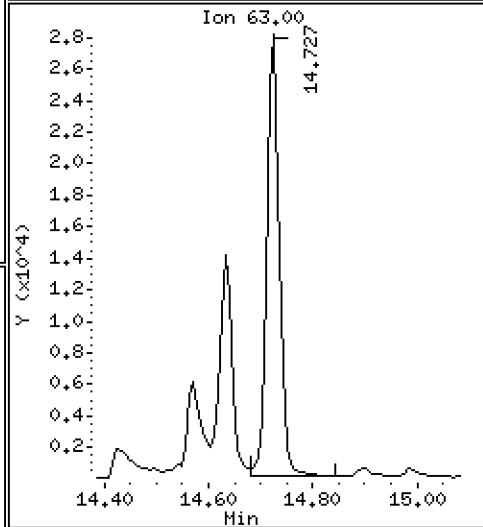
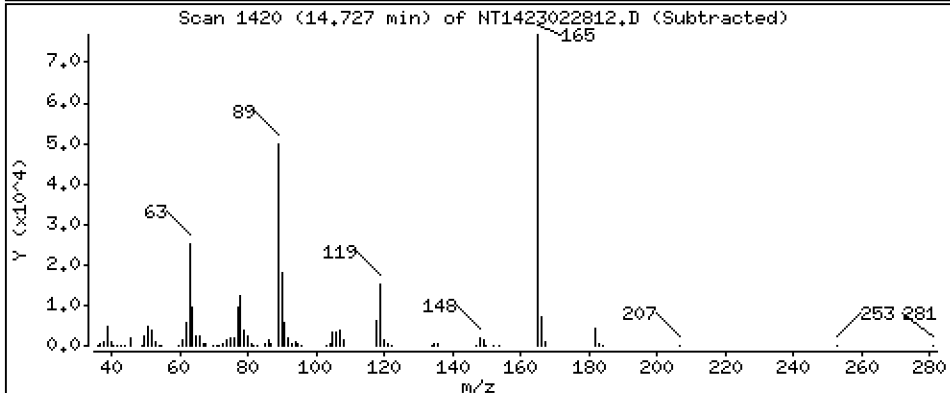
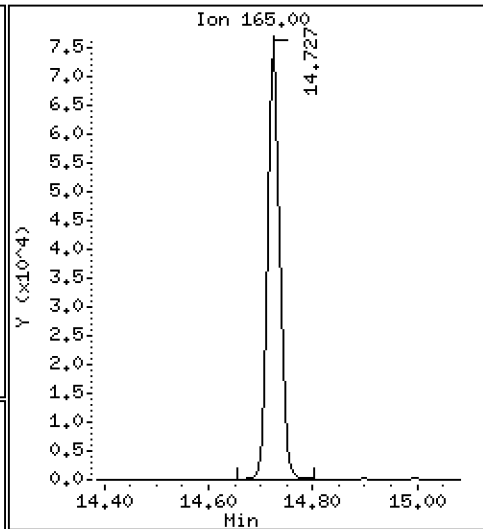
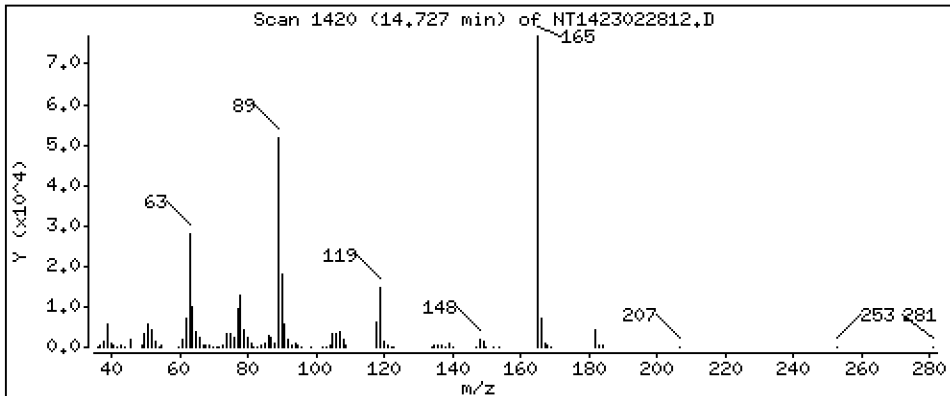
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 4,941 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

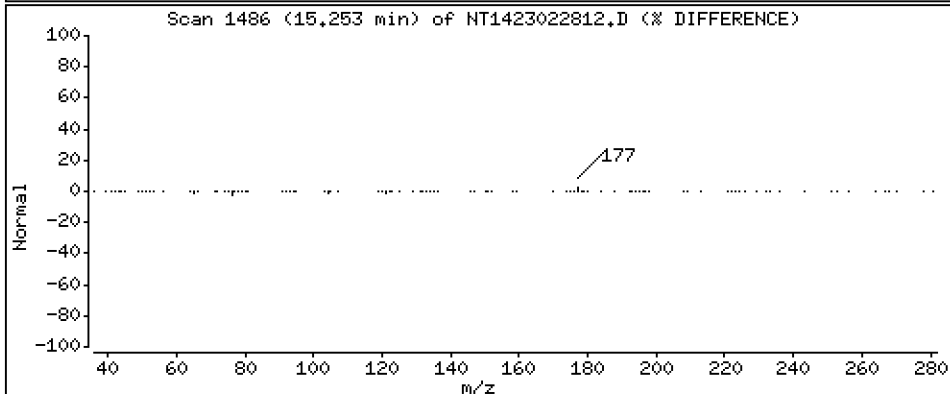
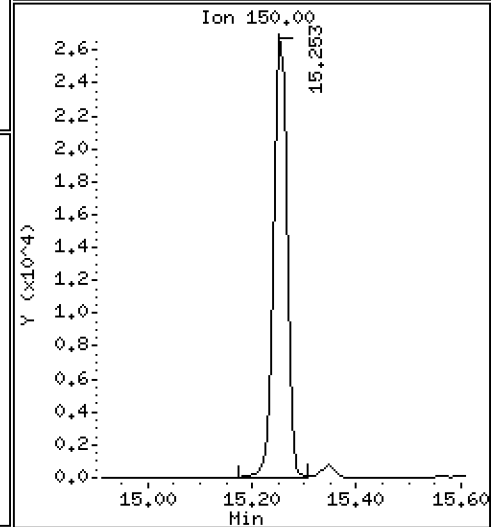
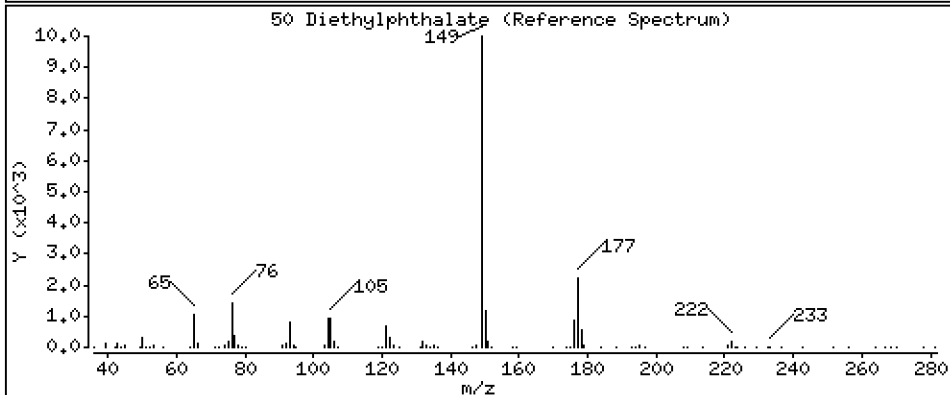
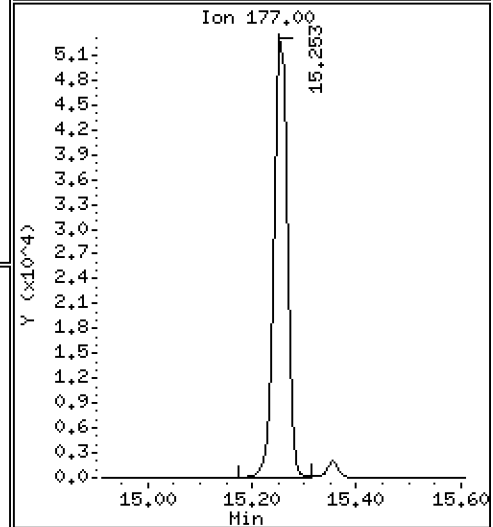
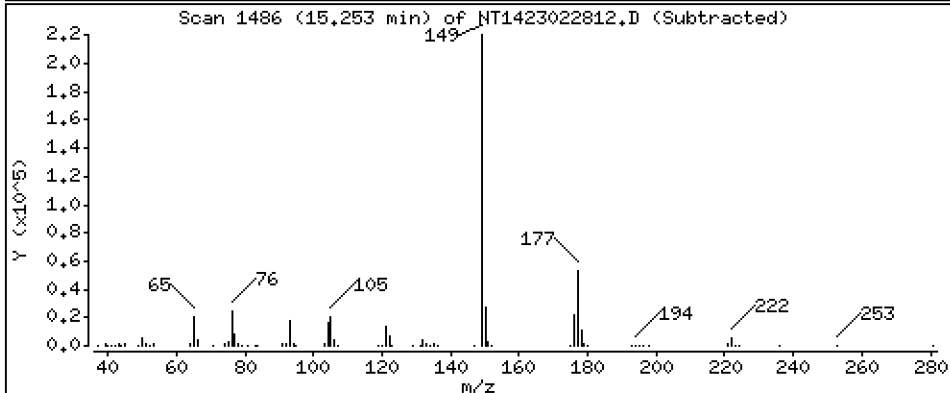
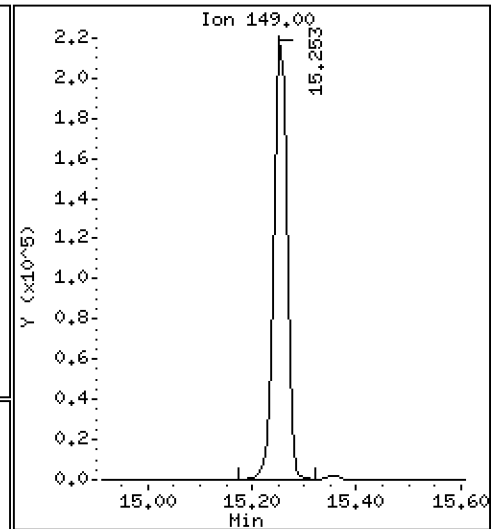
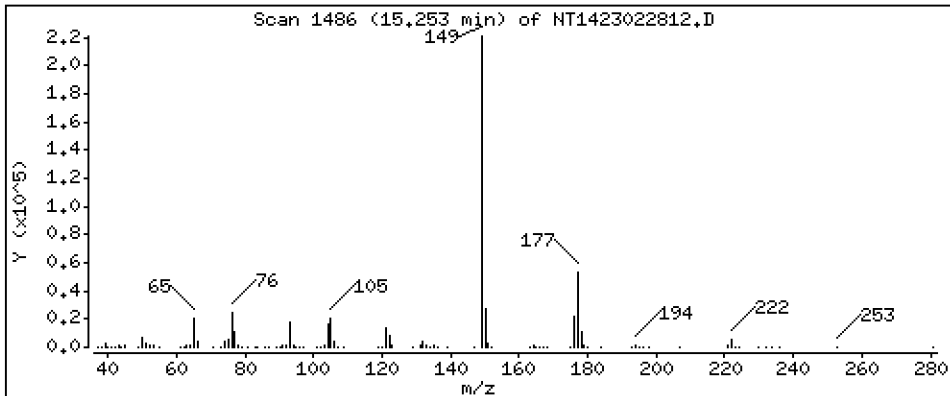
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 5.420 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

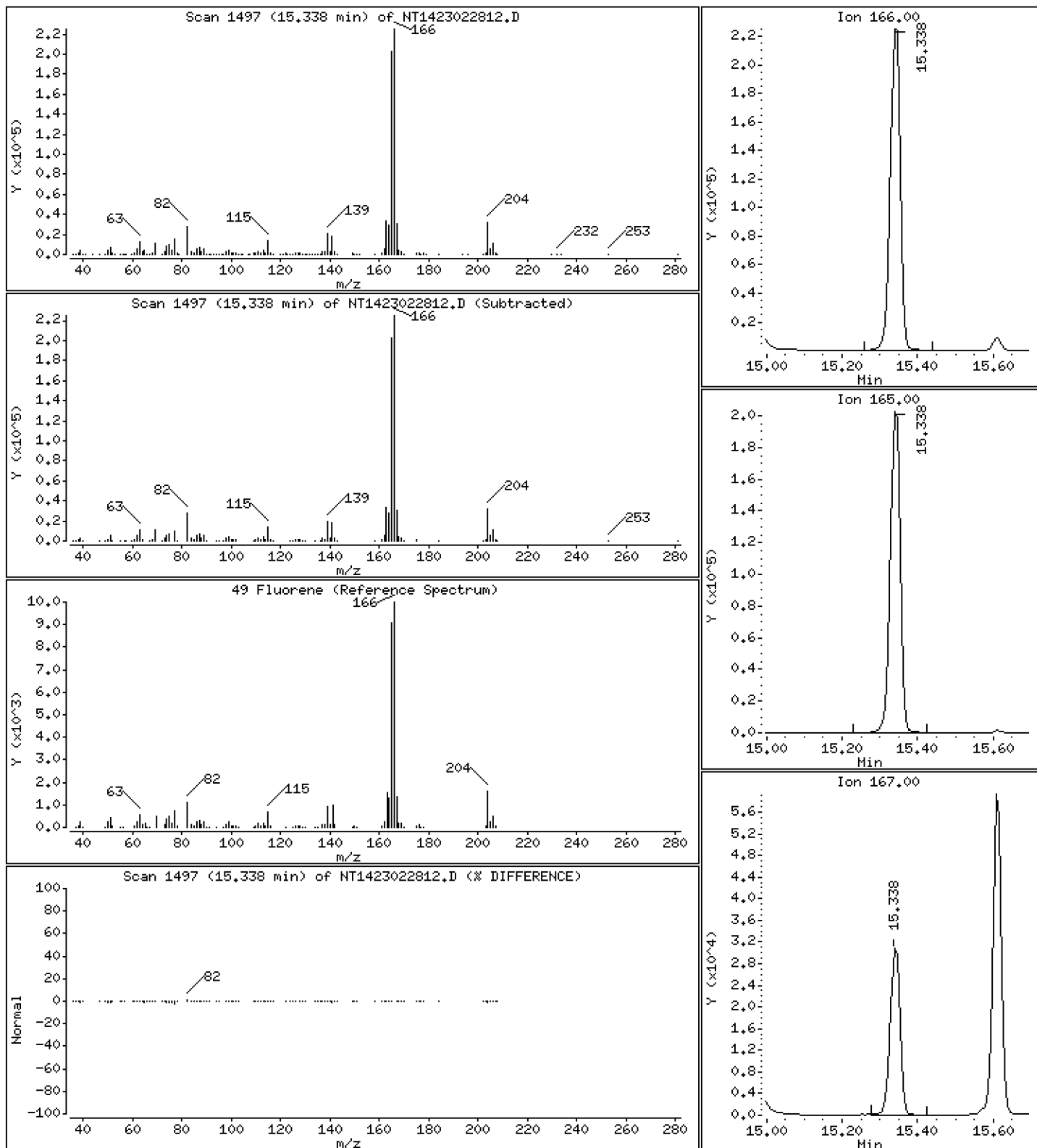
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,793 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

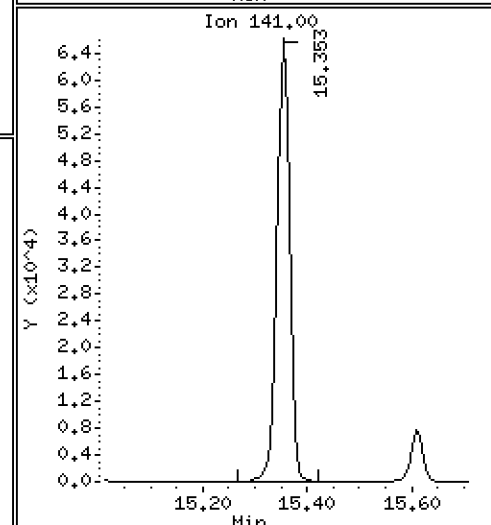
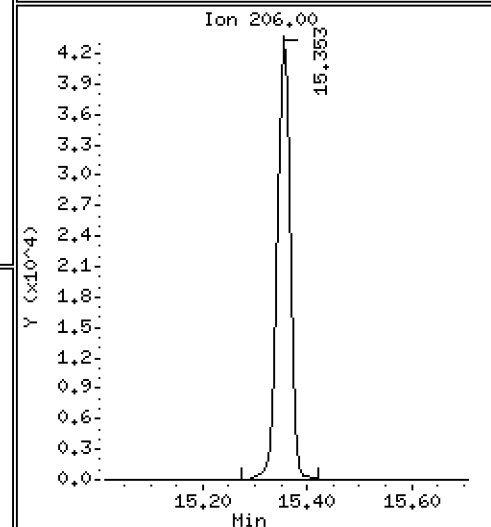
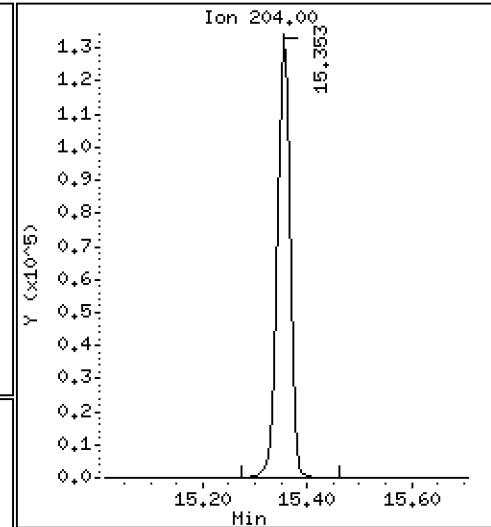
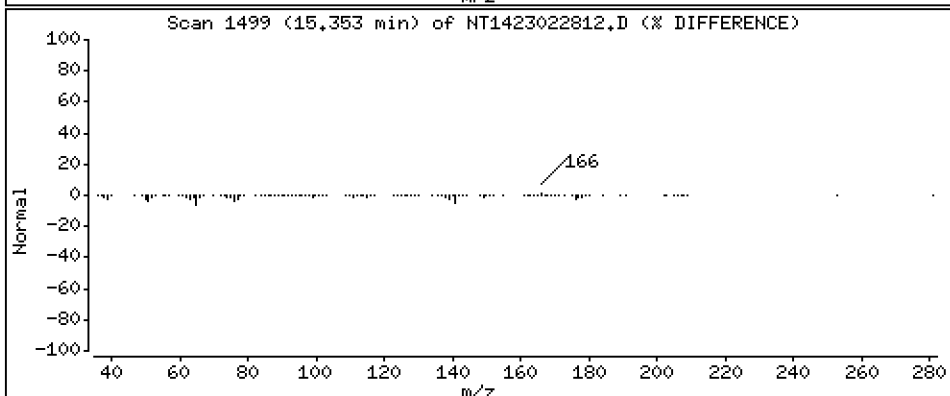
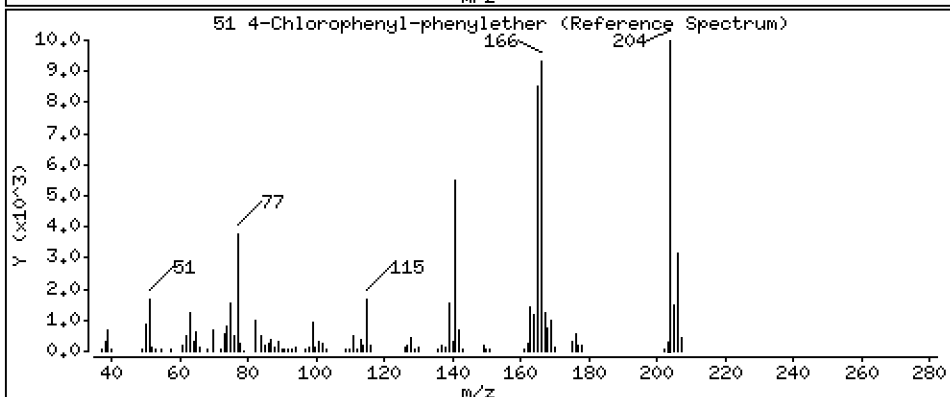
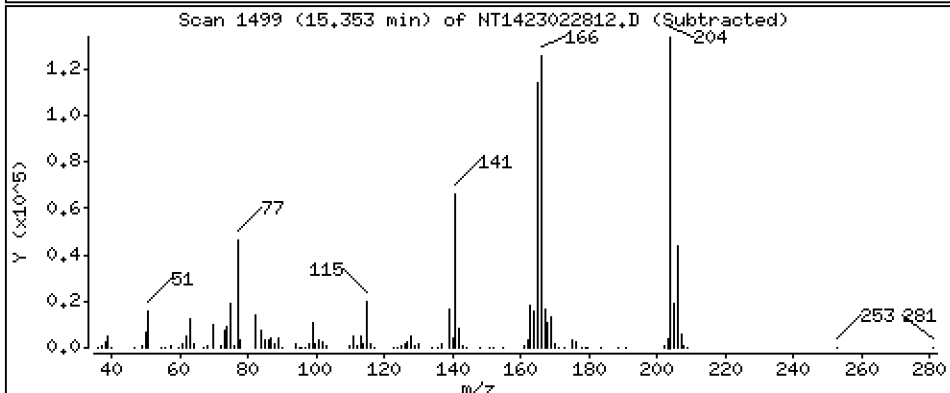
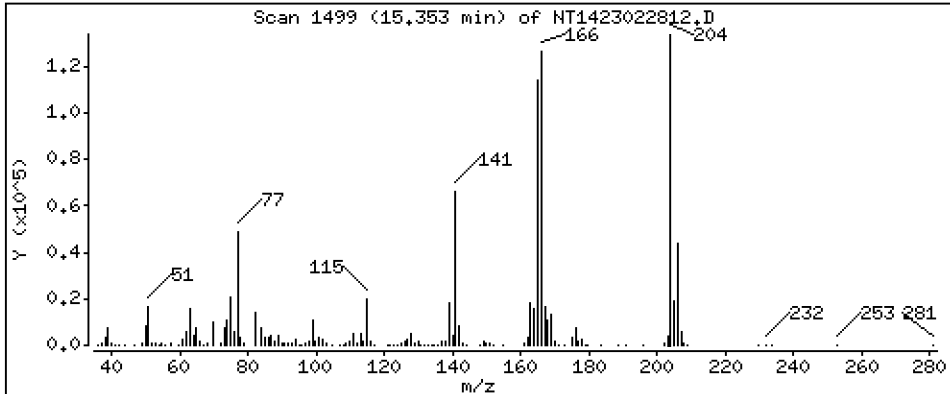
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,884 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

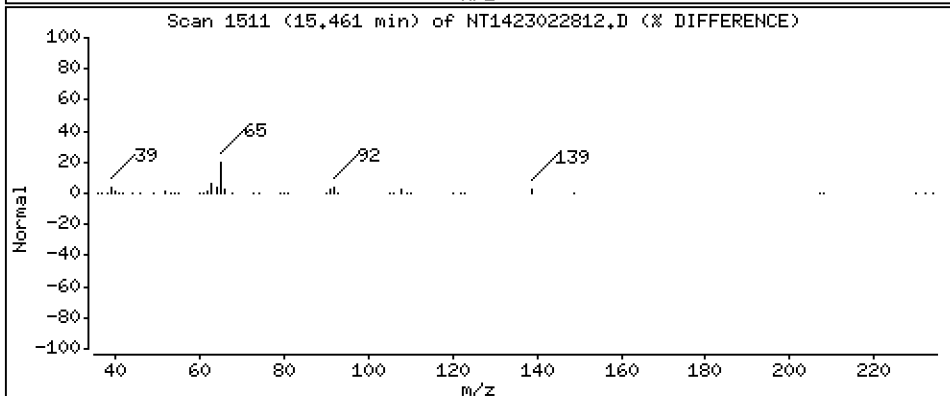
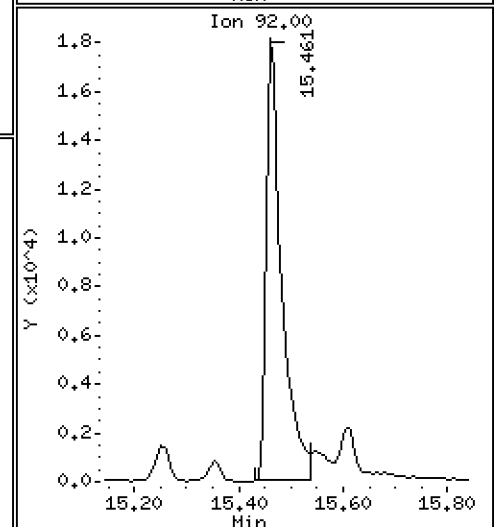
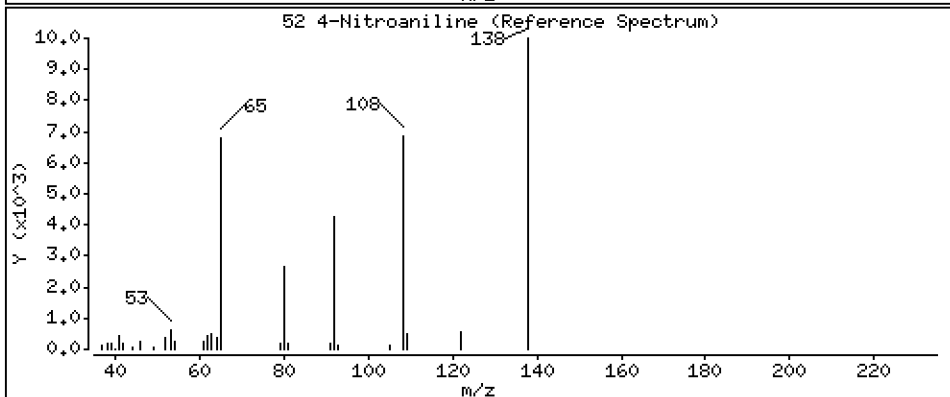
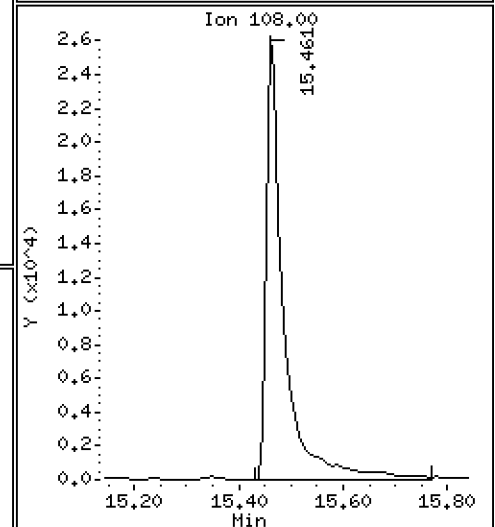
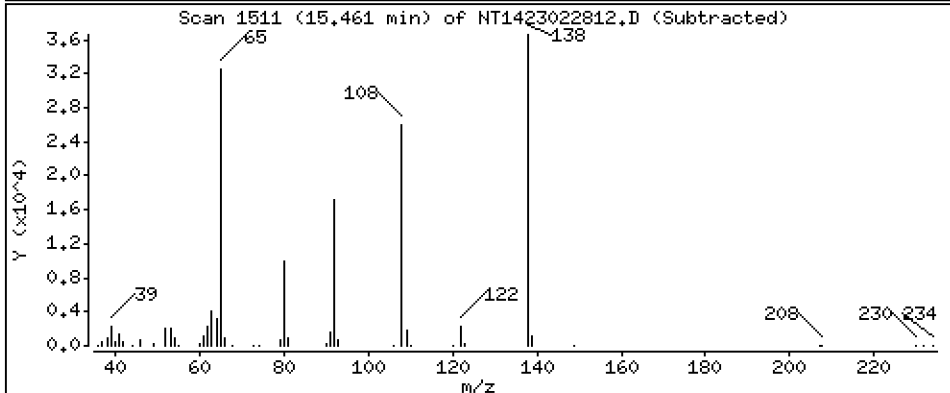
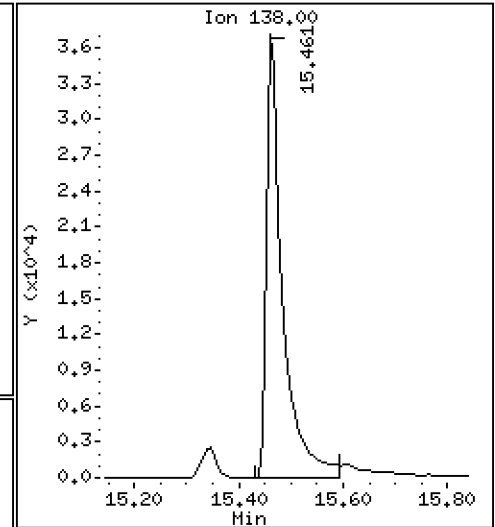
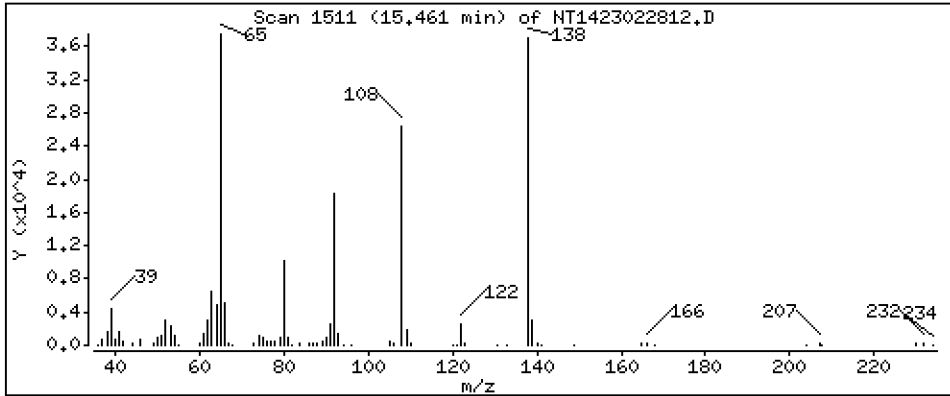
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 4,560 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

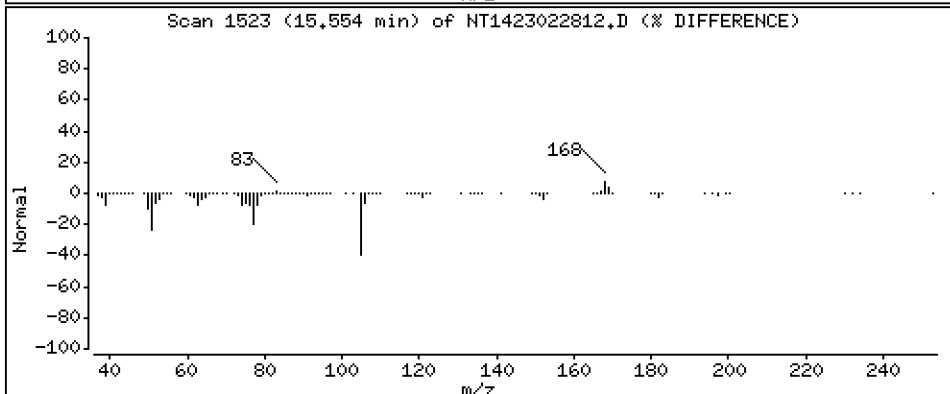
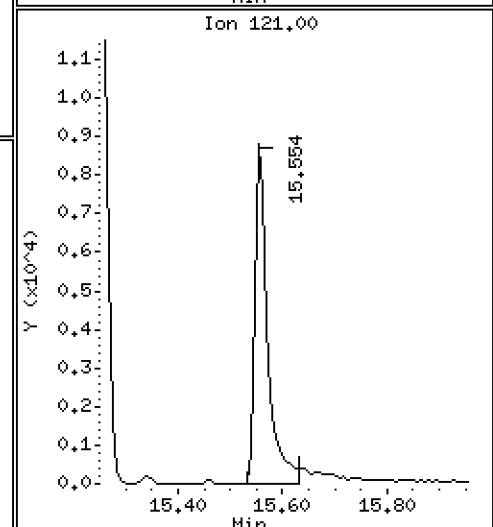
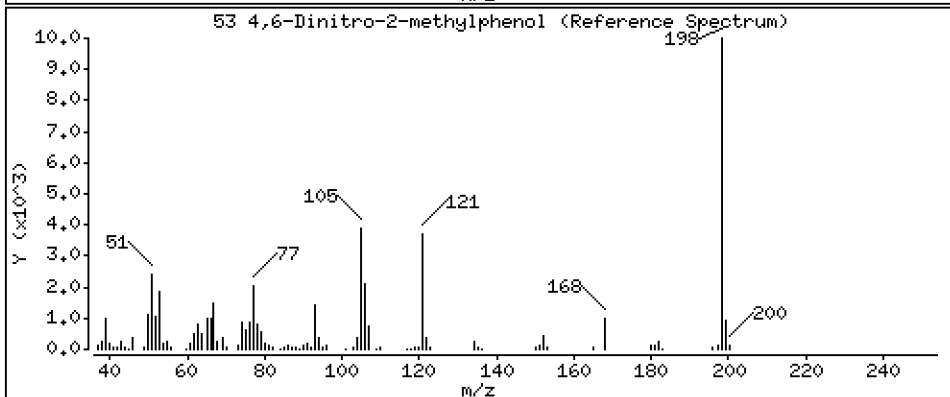
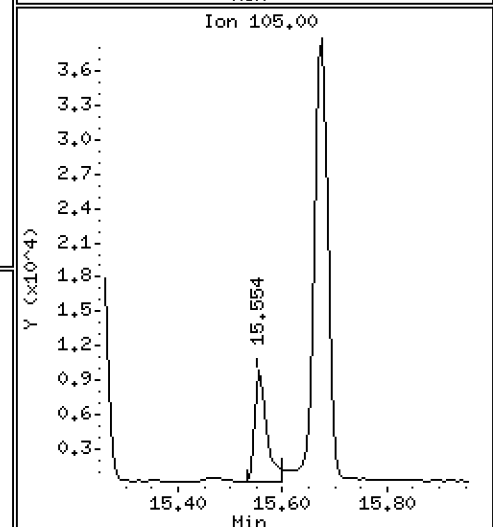
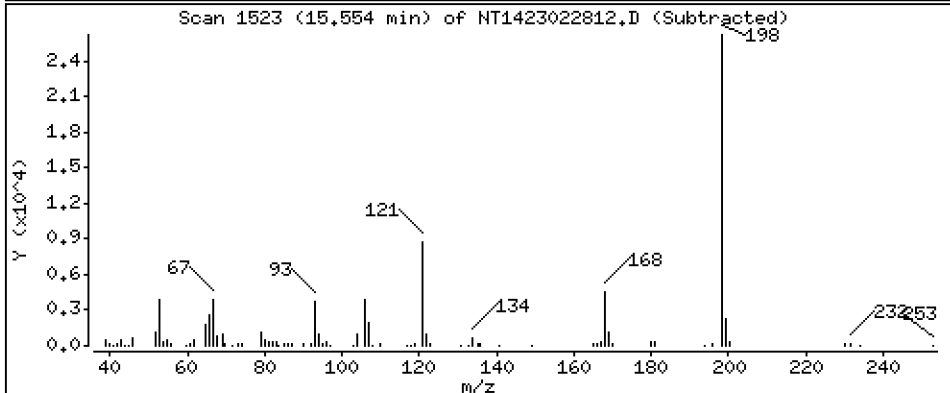
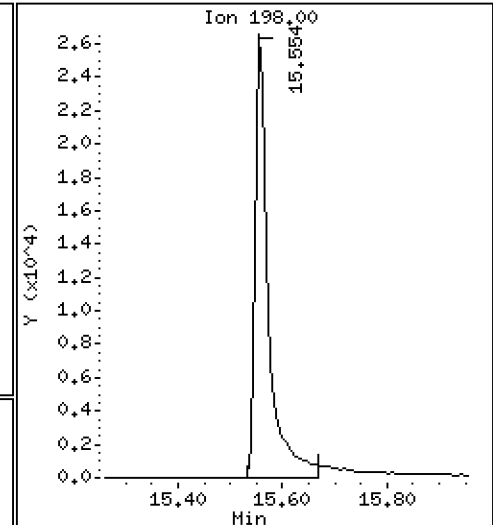
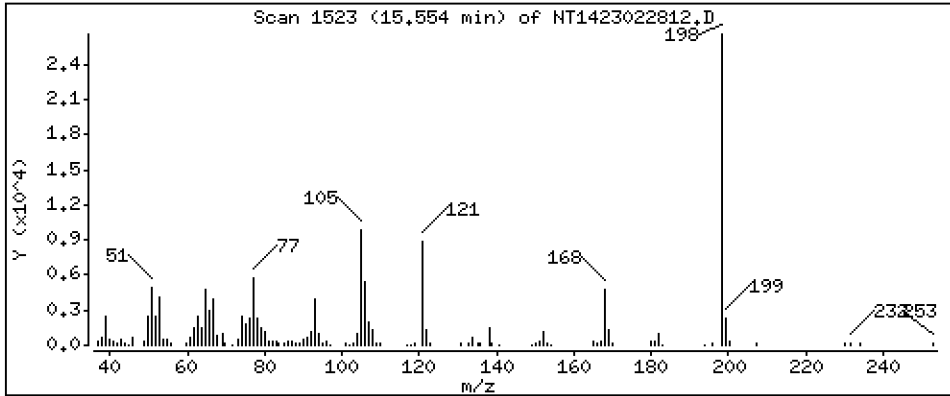
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 3,234 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

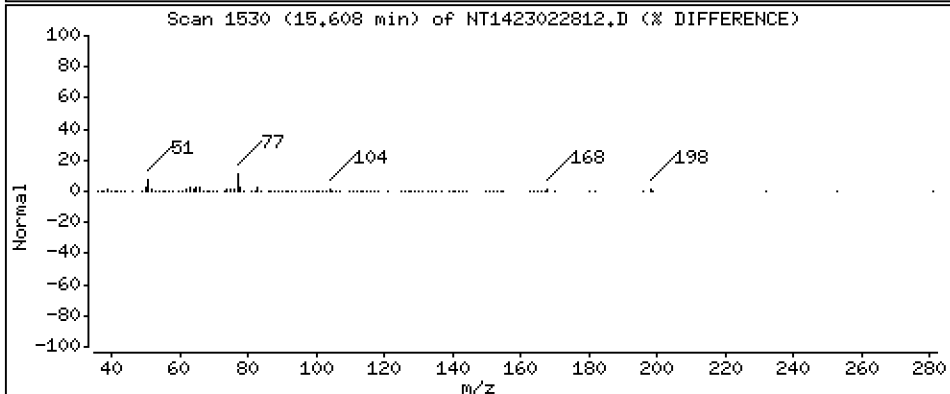
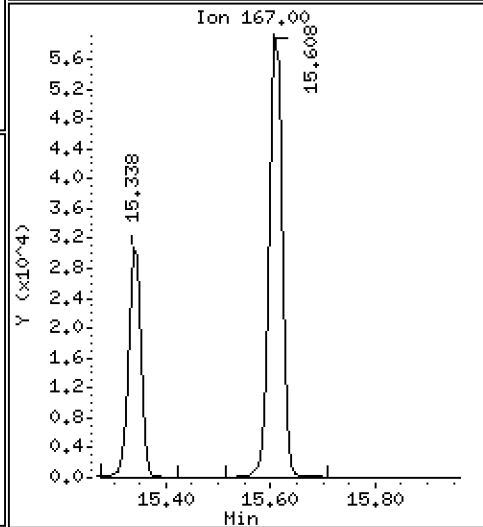
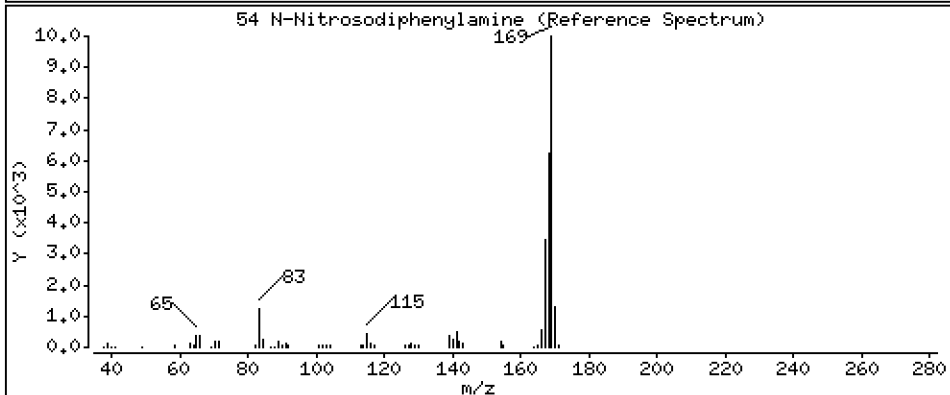
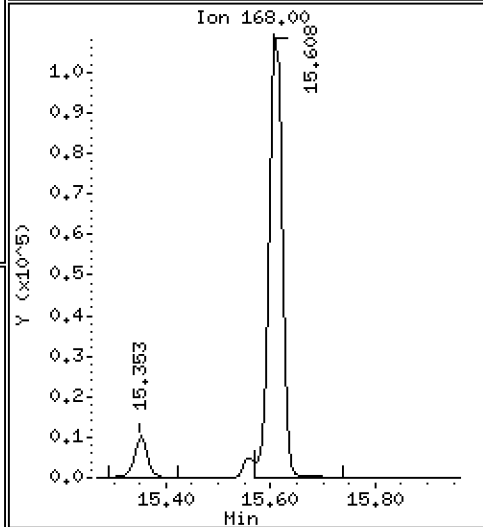
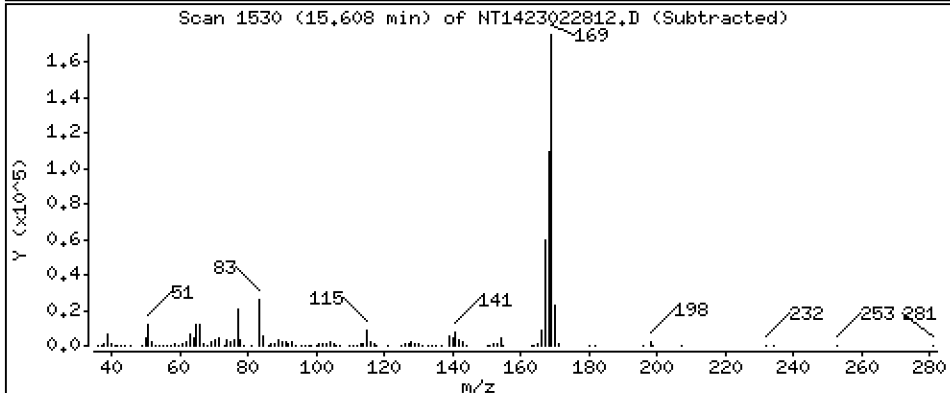
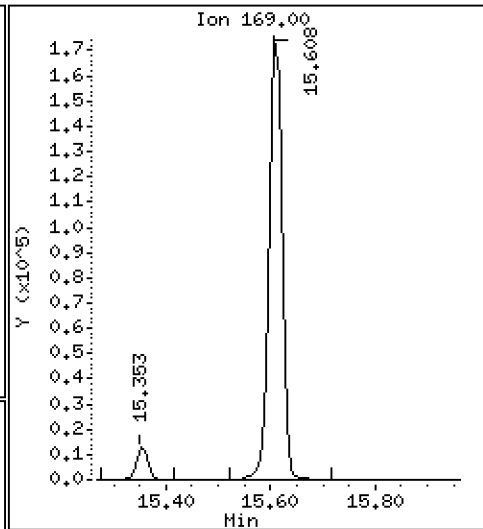
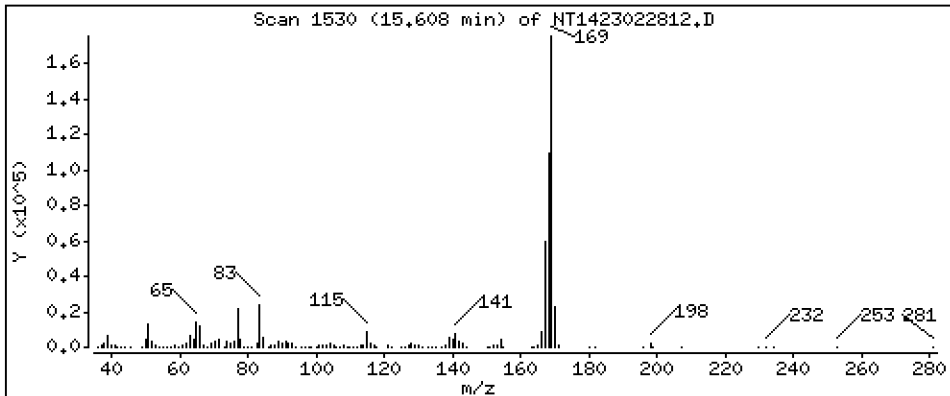
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,980 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

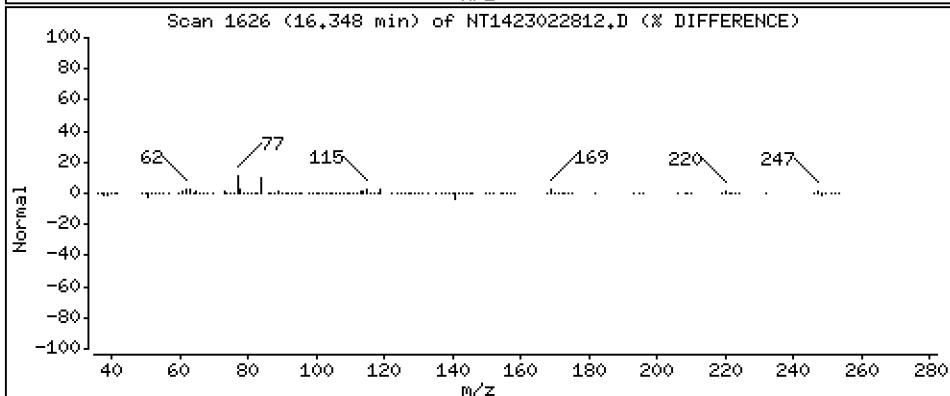
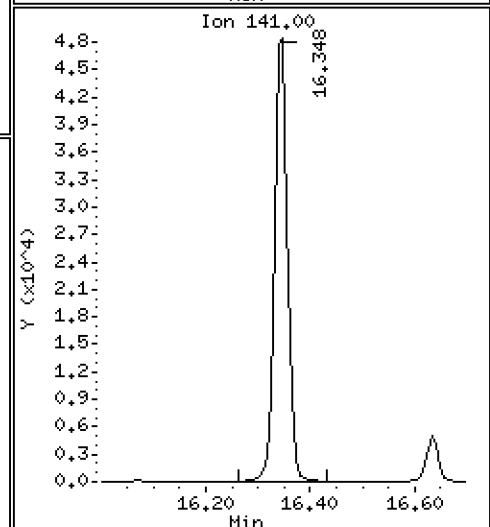
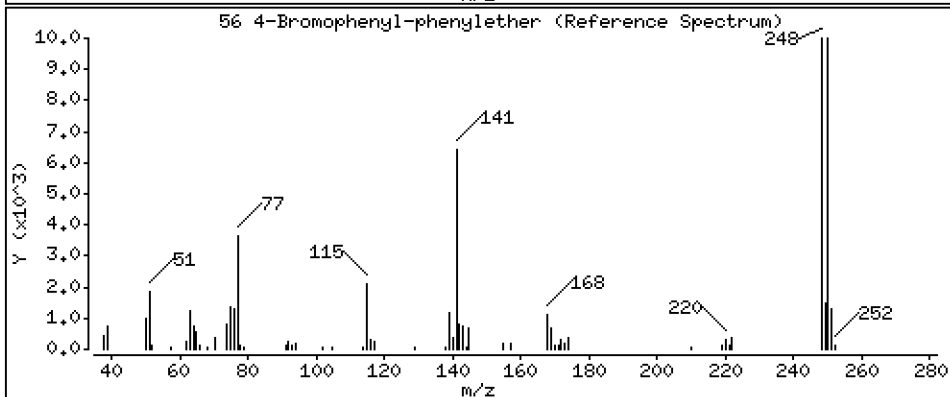
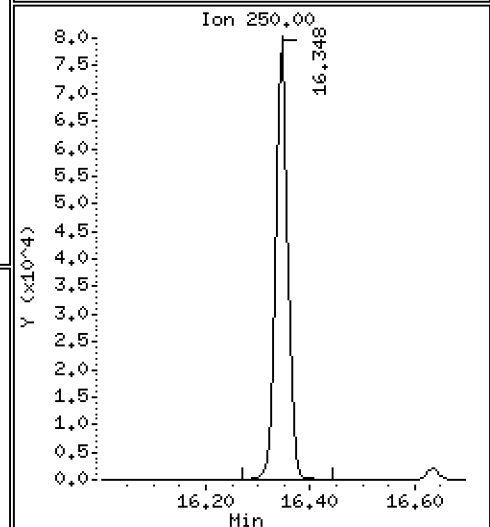
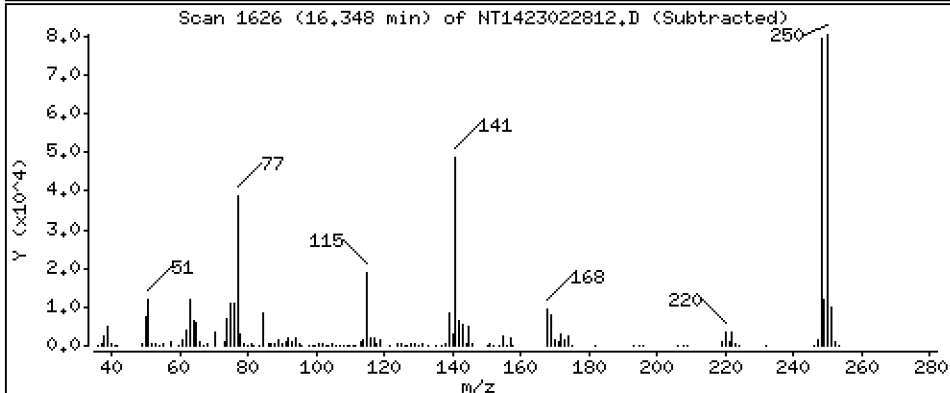
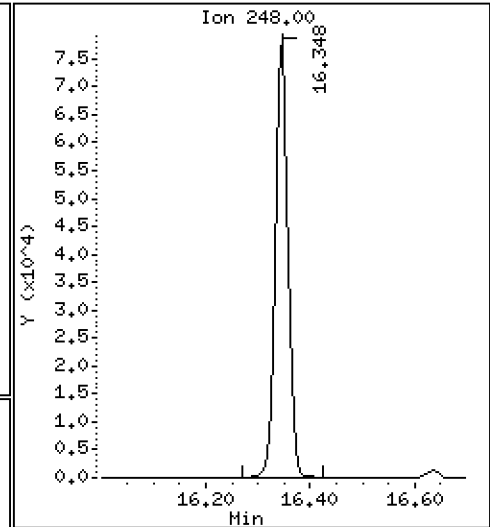
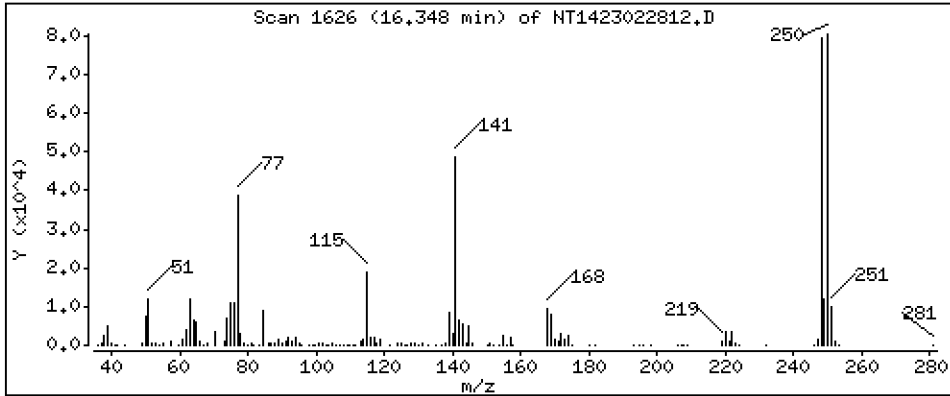
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,152 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

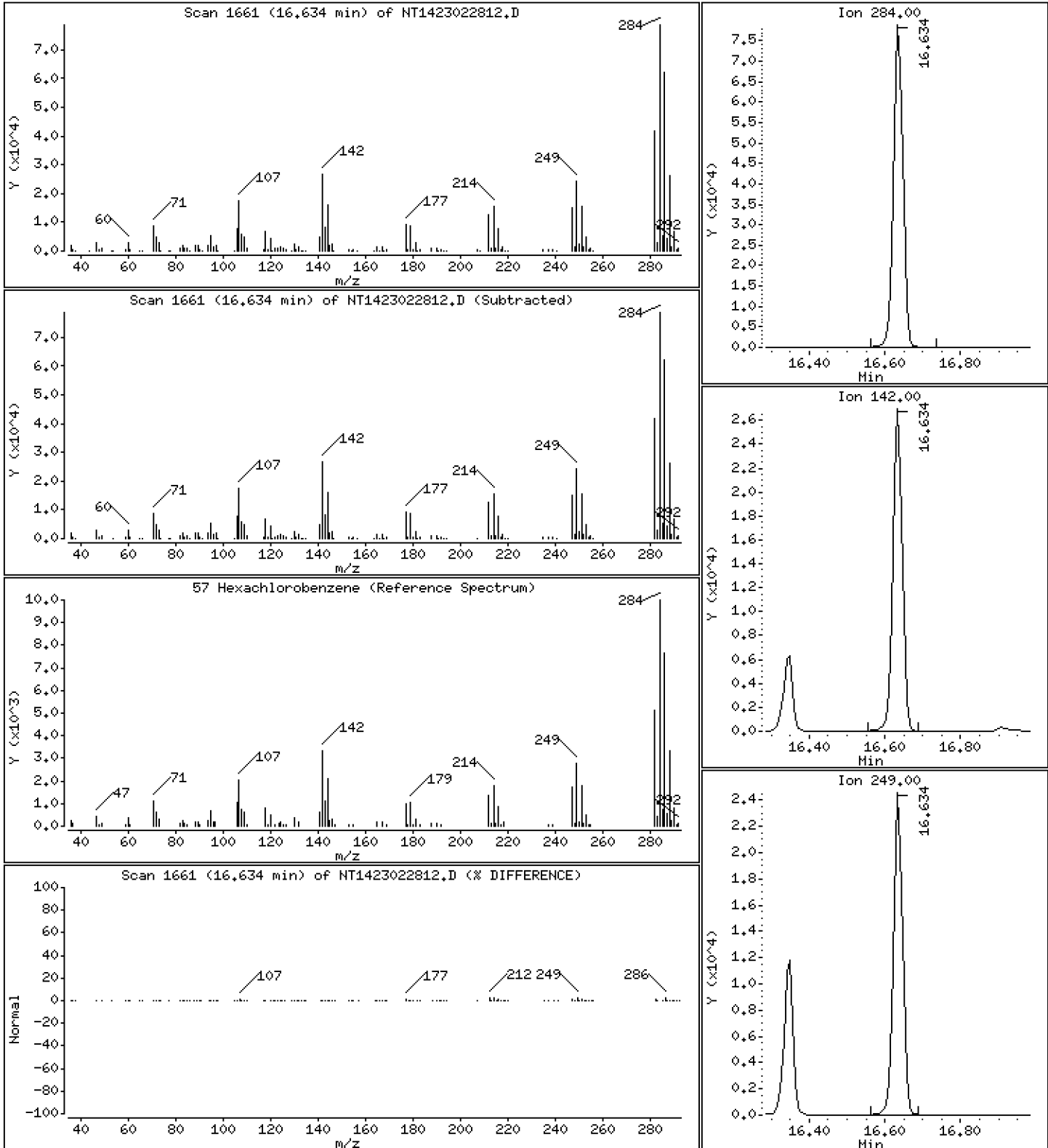
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 4.790 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

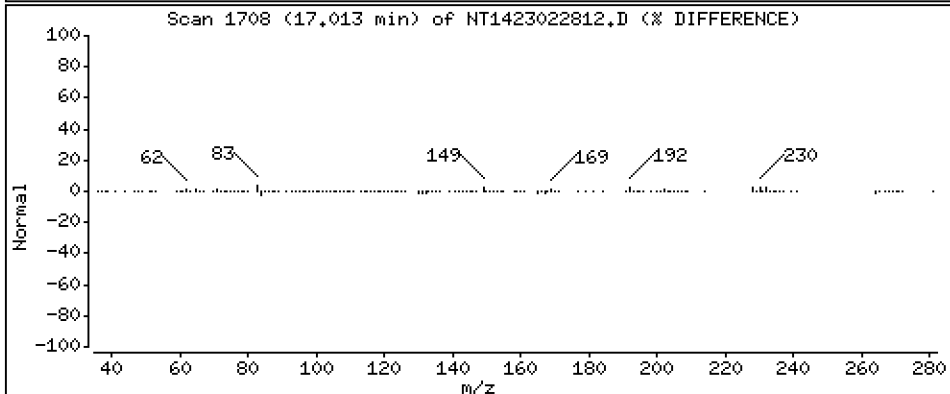
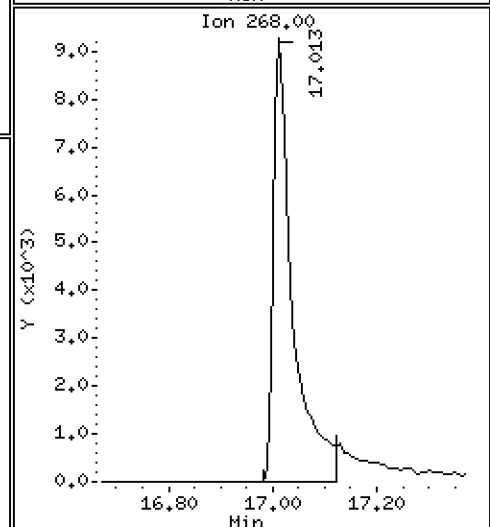
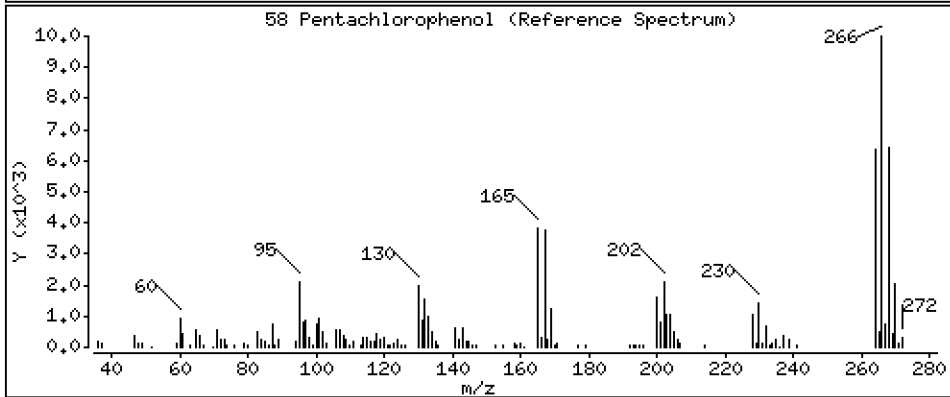
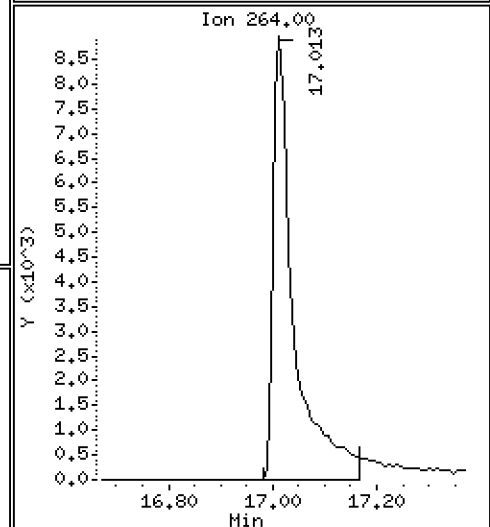
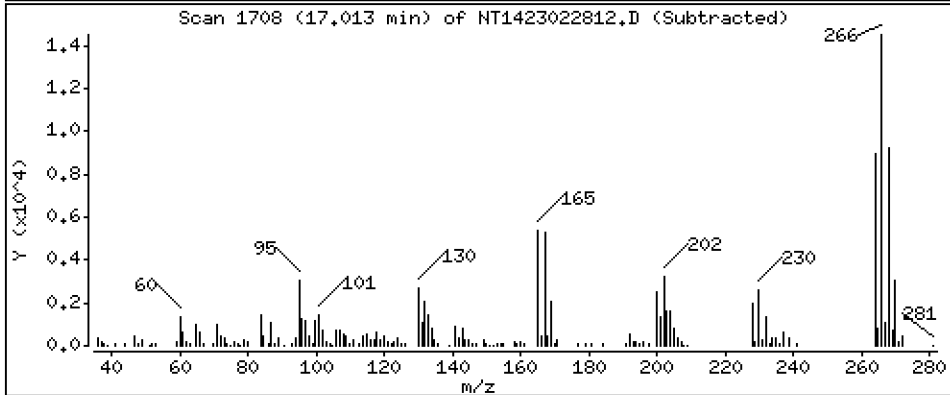
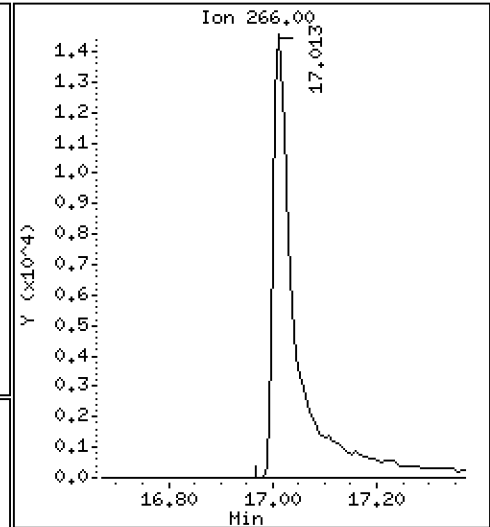
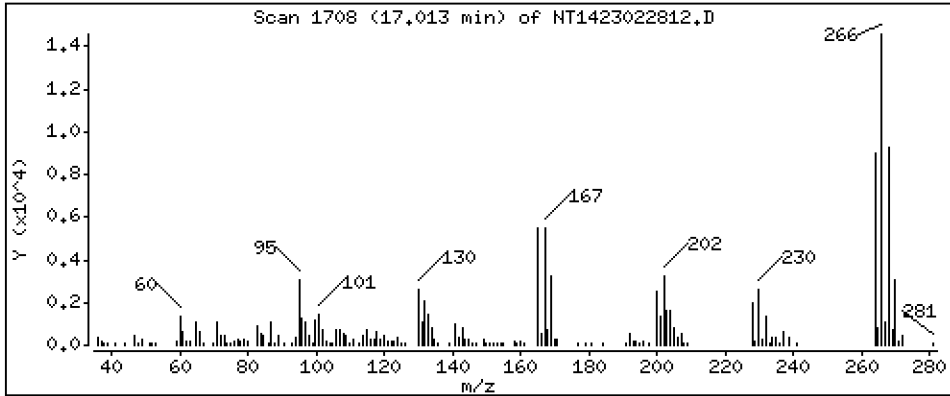
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 3,524 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

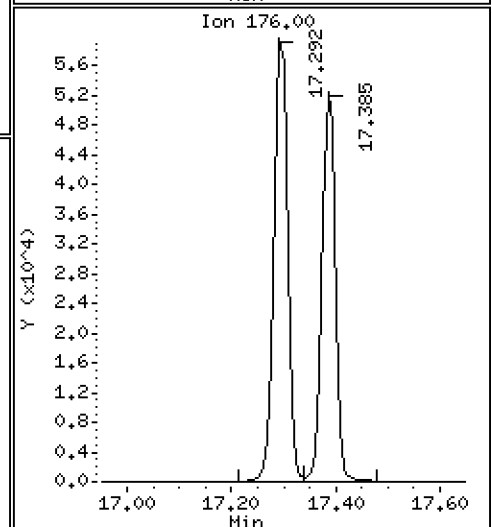
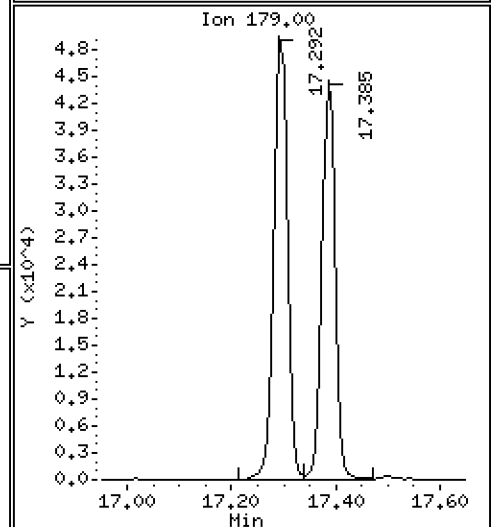
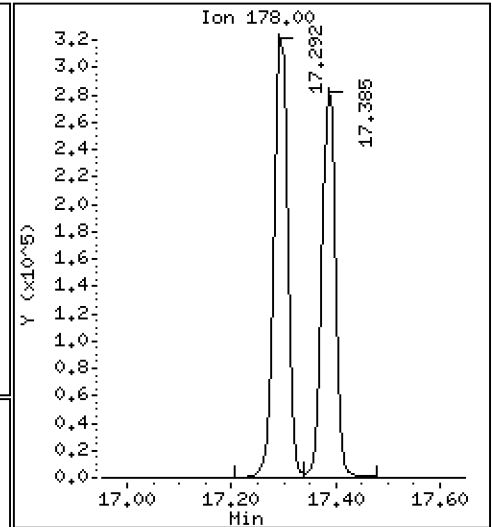
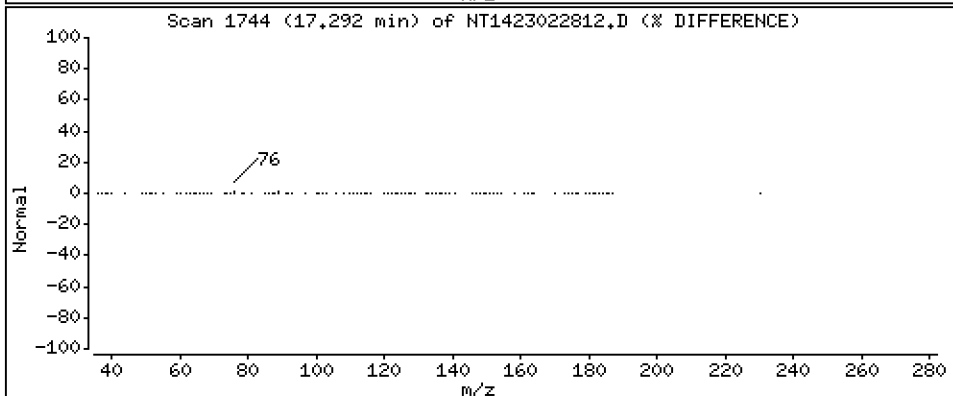
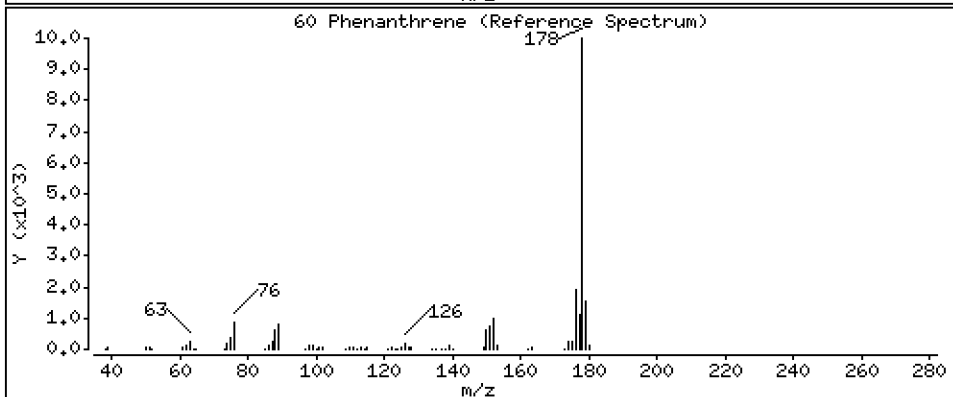
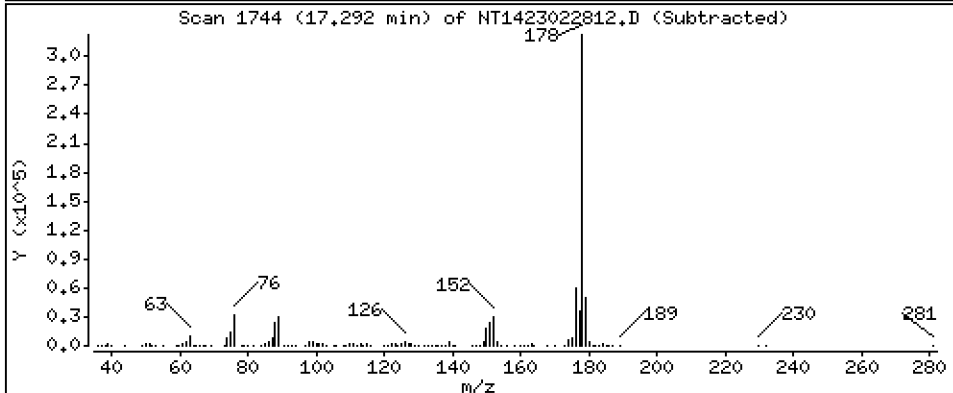
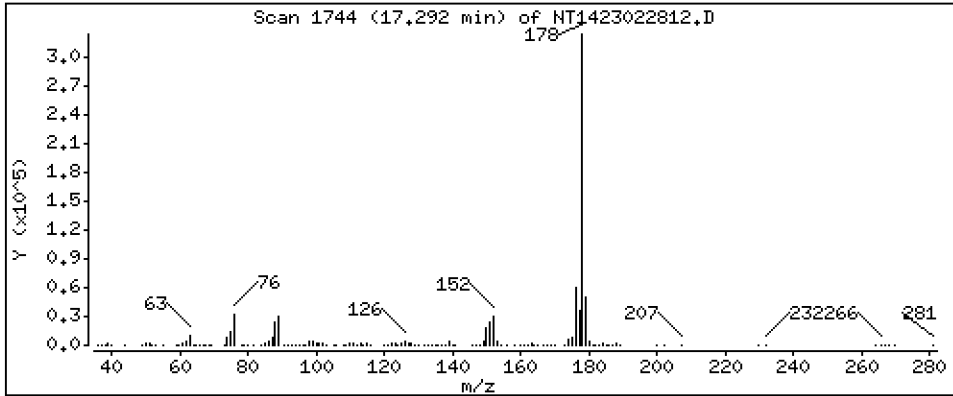
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,615 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

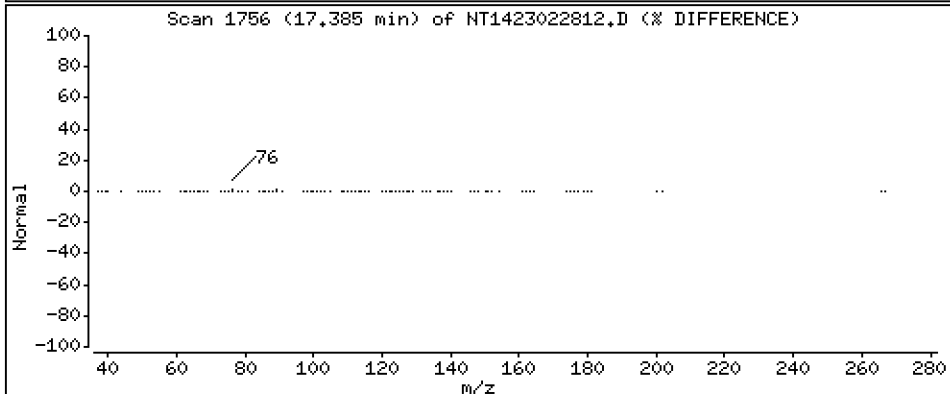
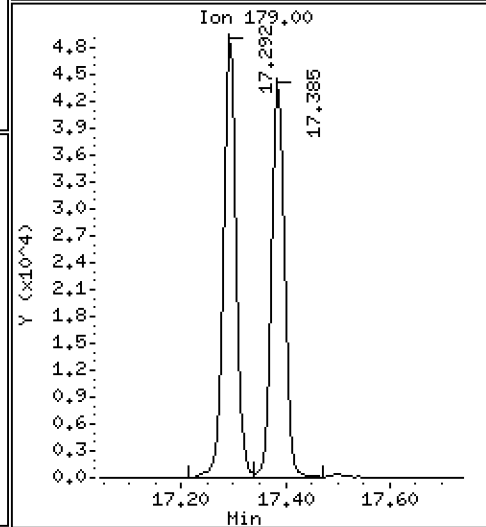
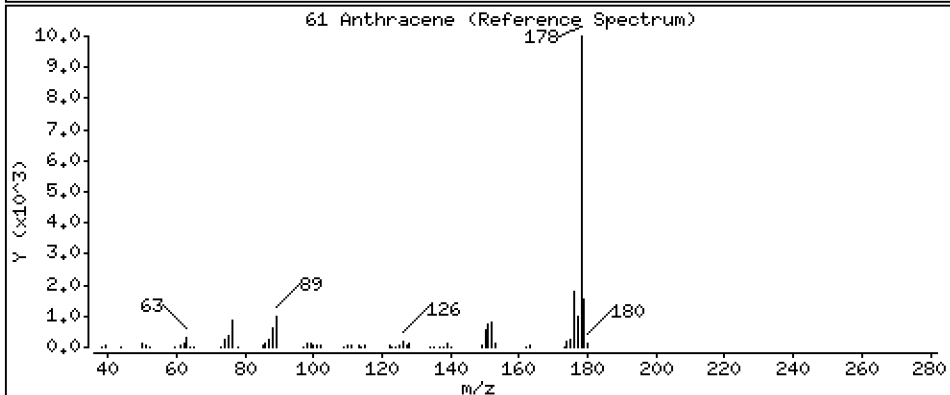
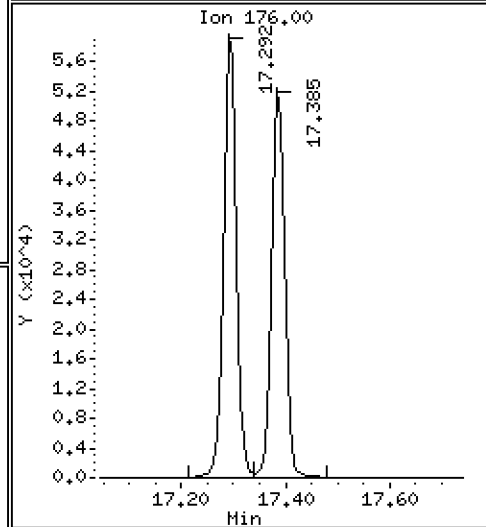
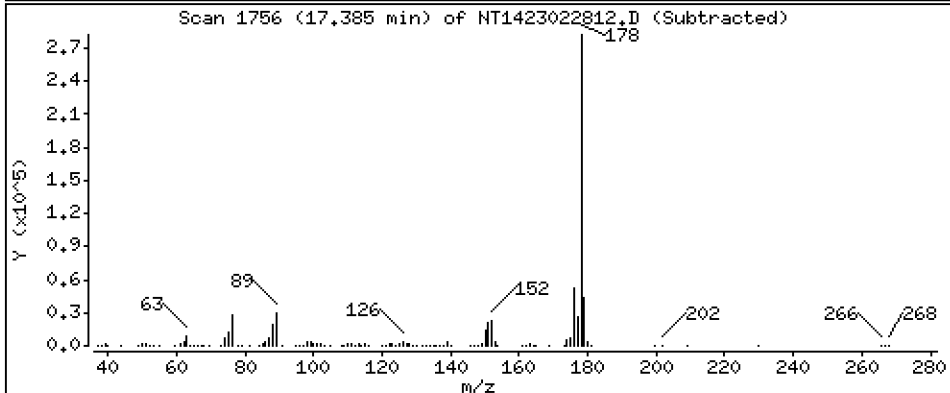
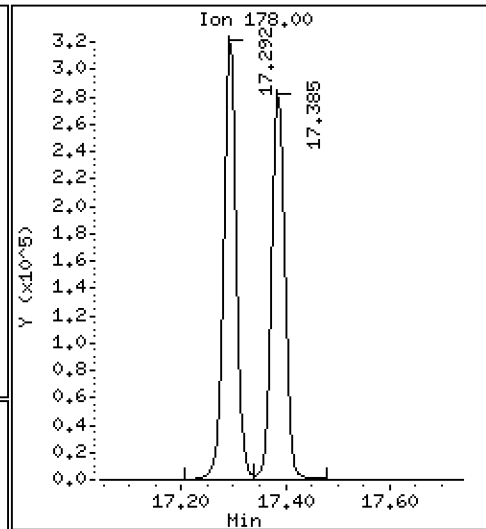
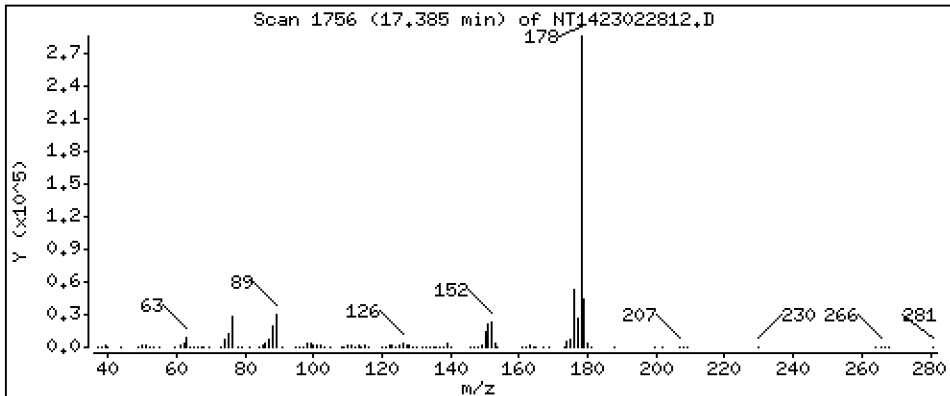
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,224 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

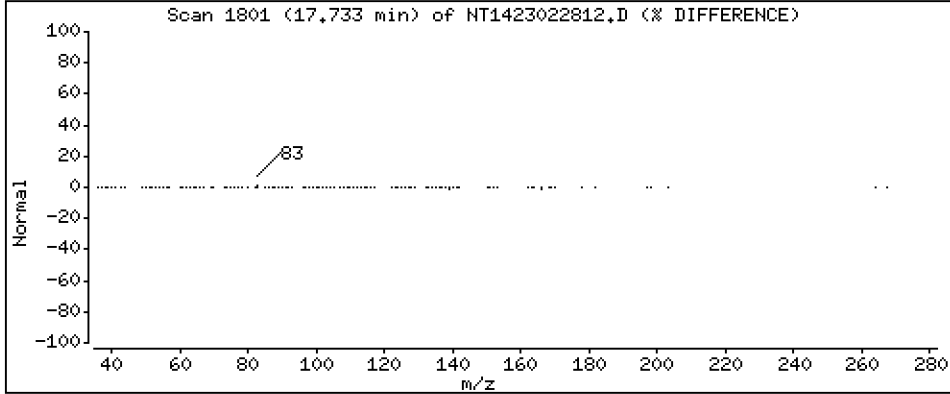
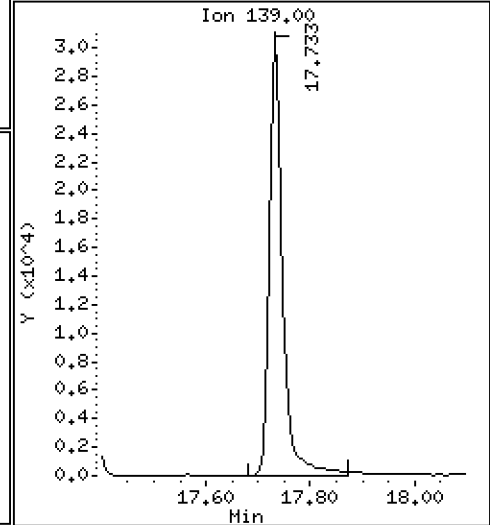
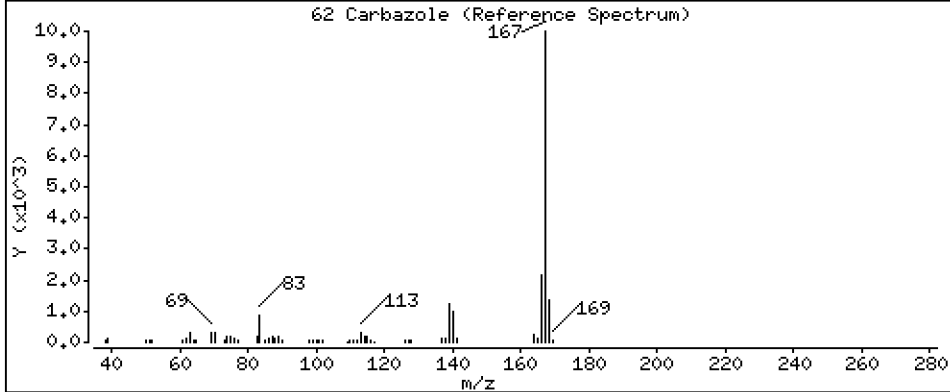
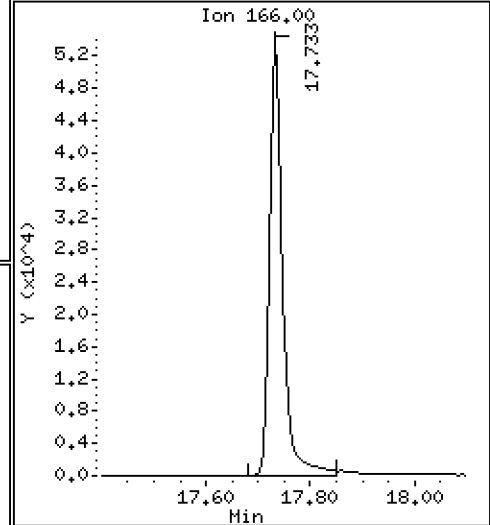
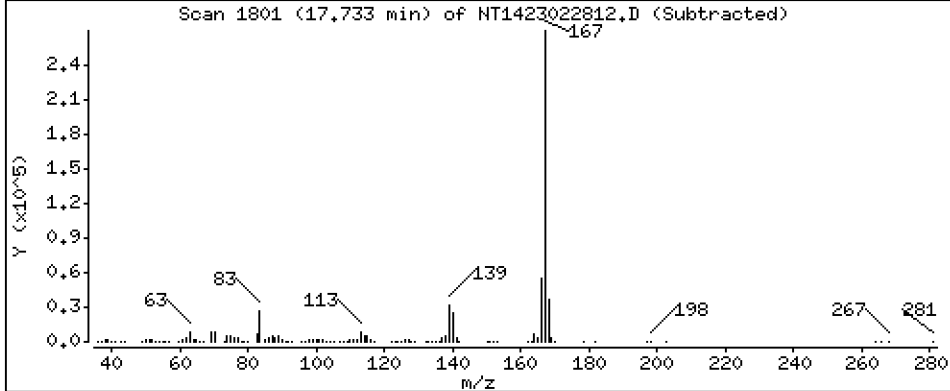
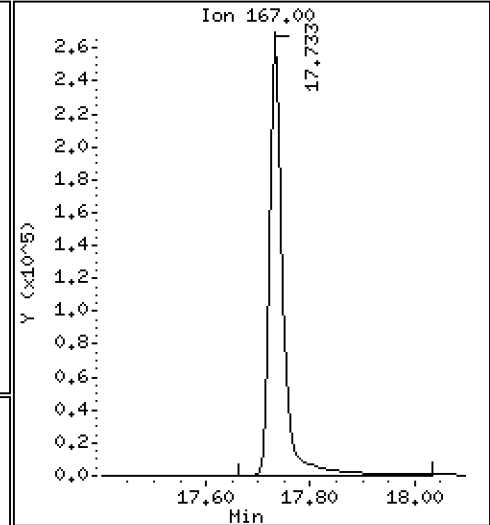
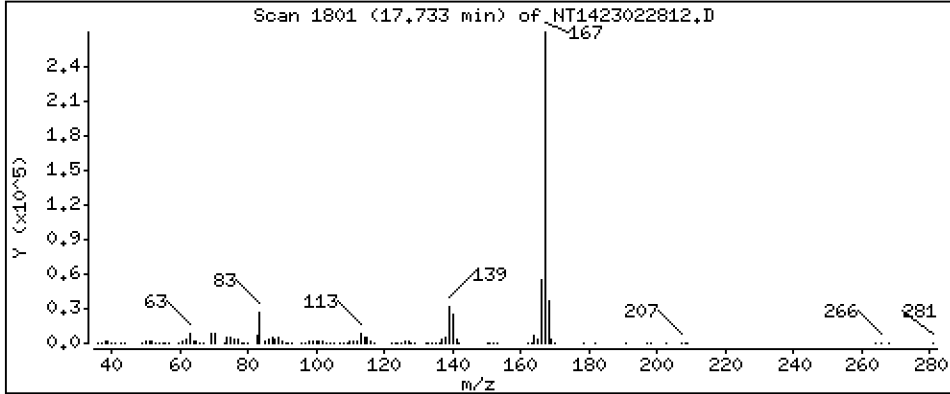
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,776 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

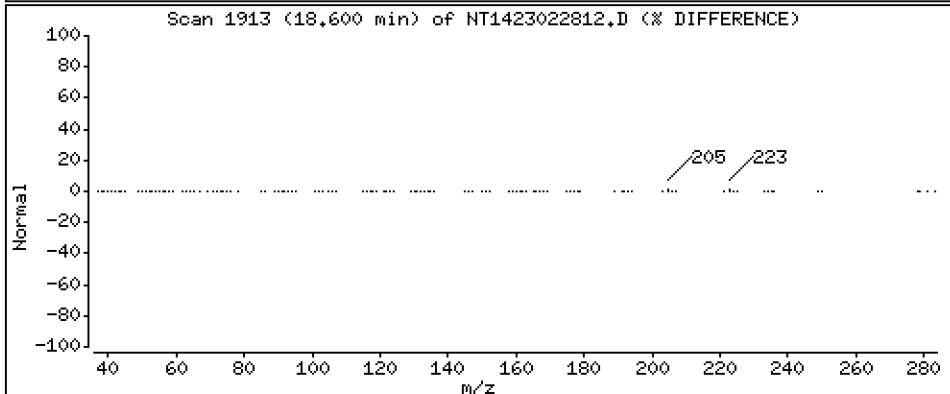
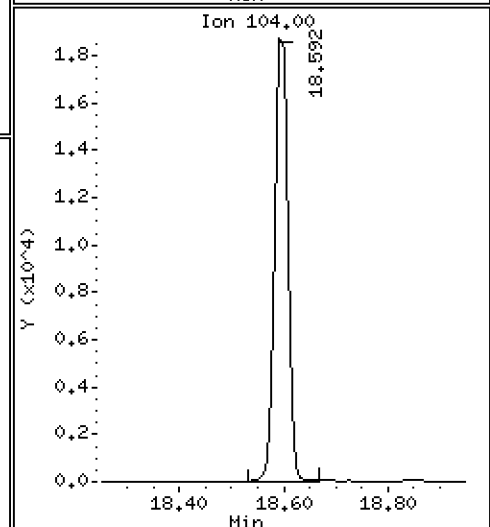
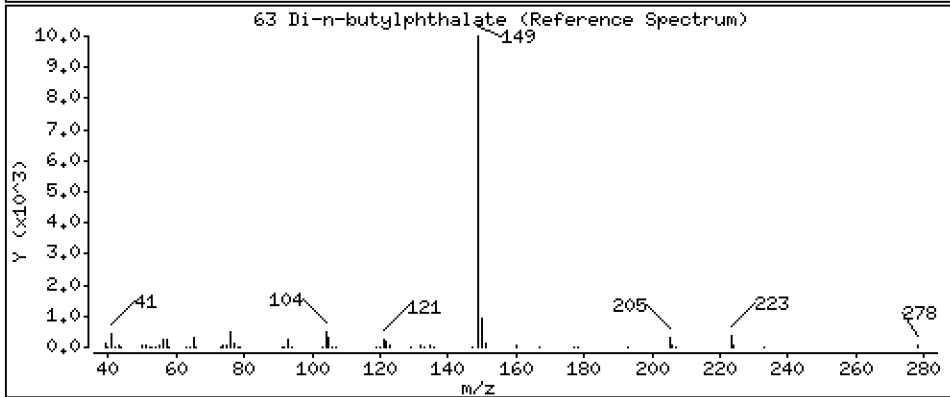
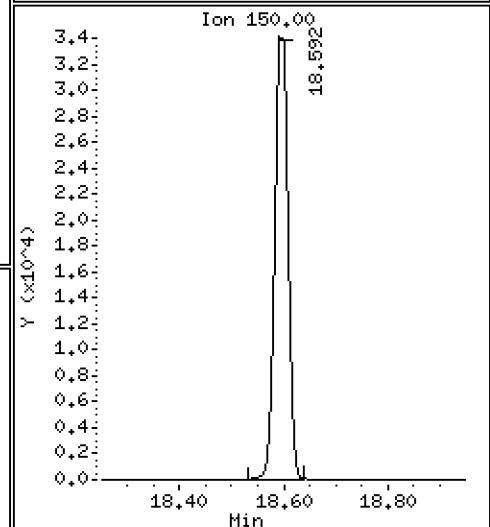
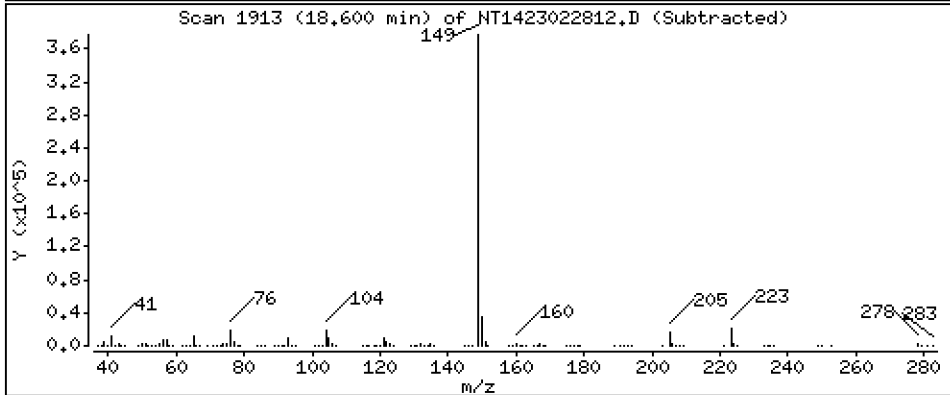
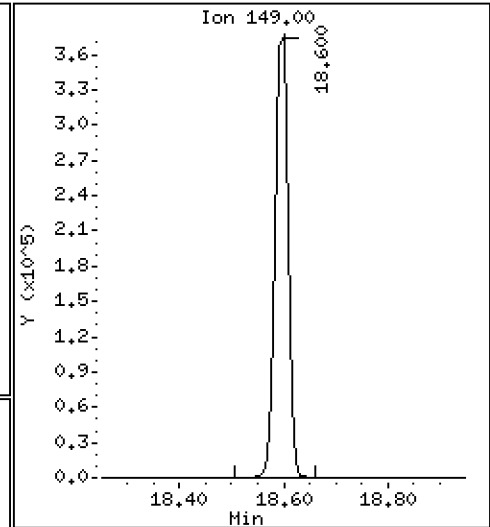
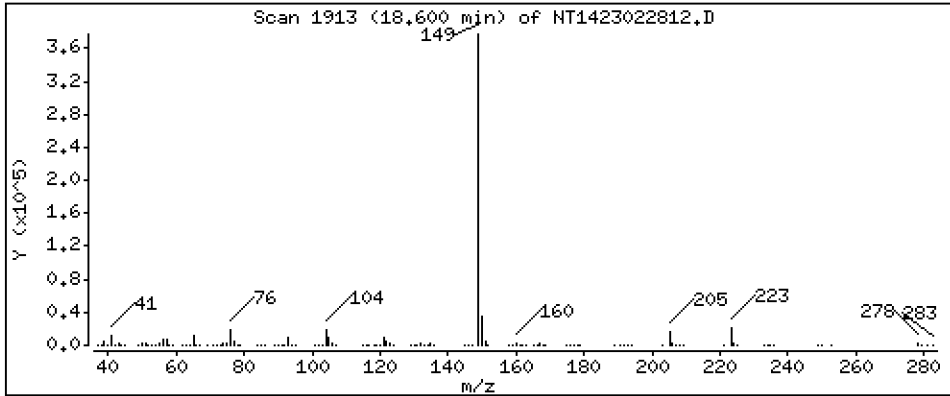
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,819 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

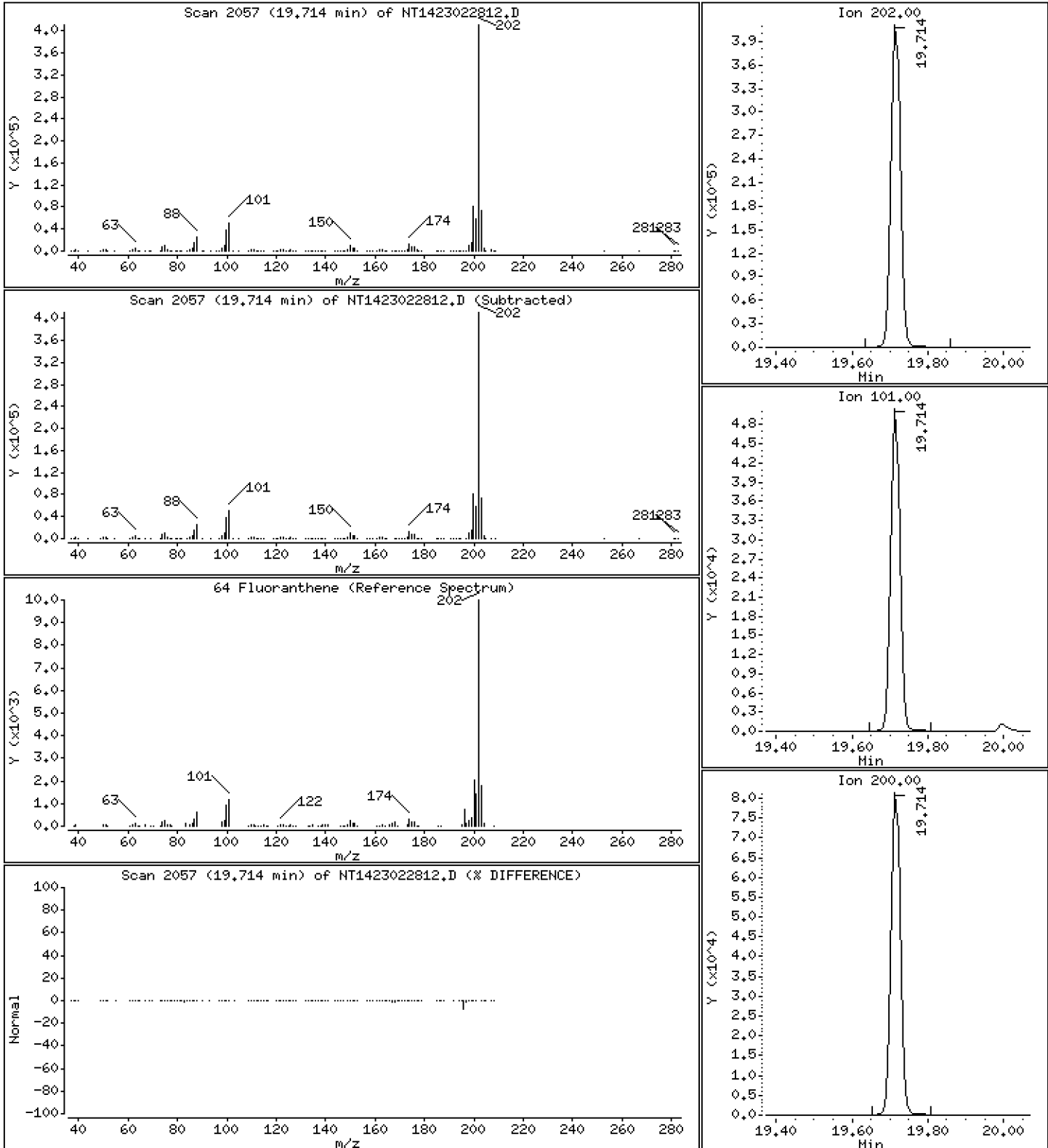
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 5,104 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

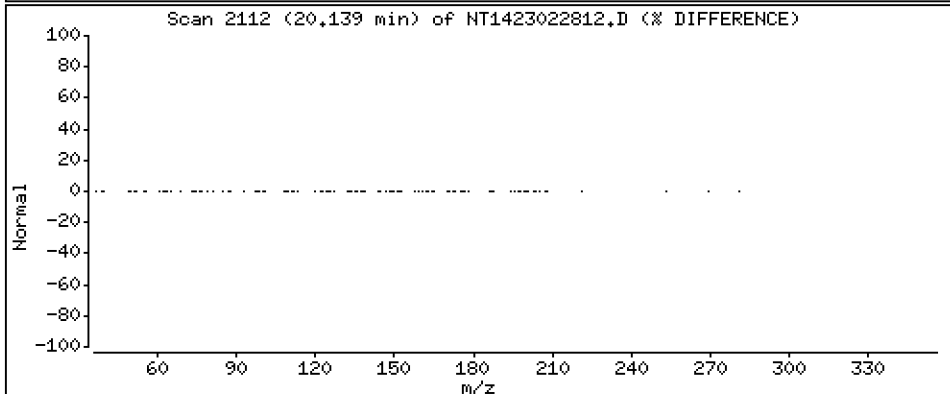
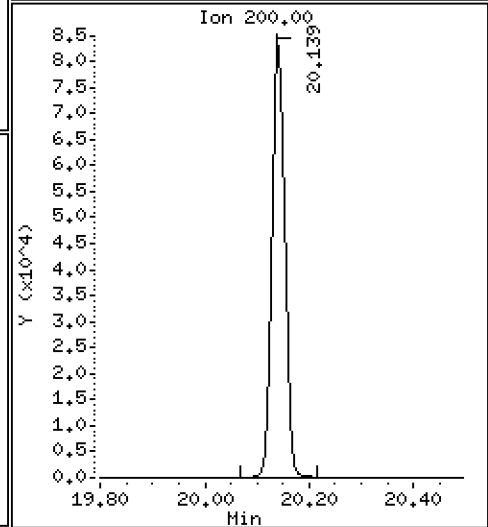
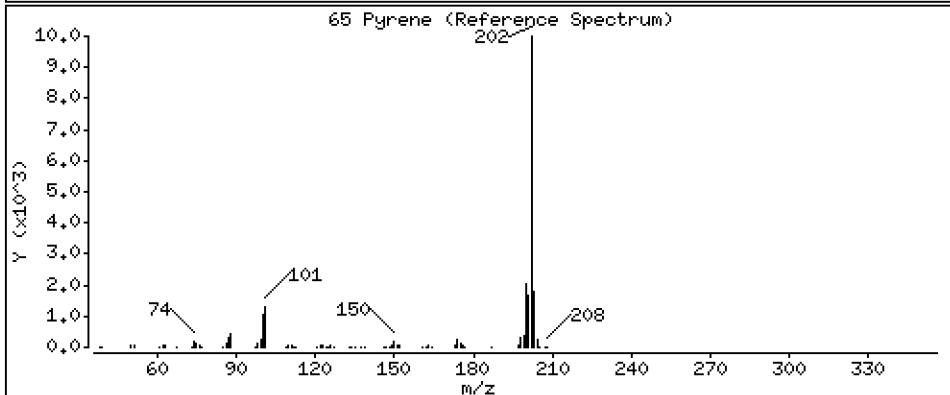
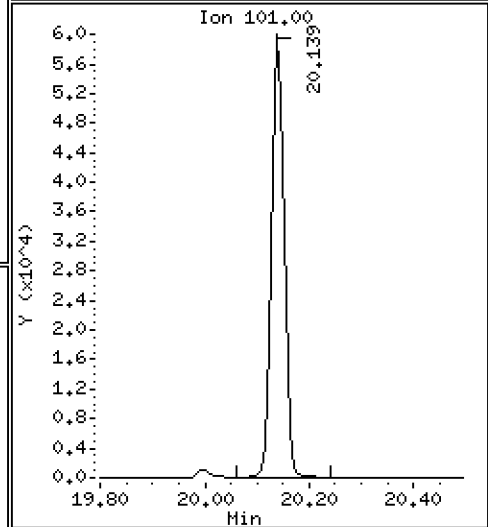
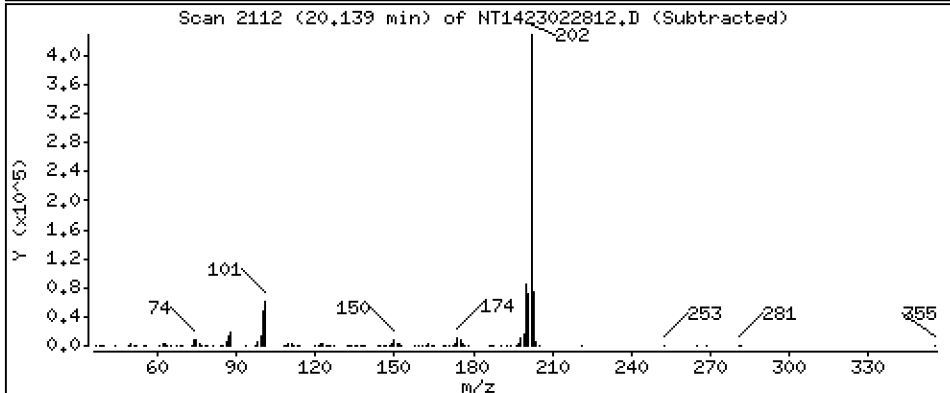
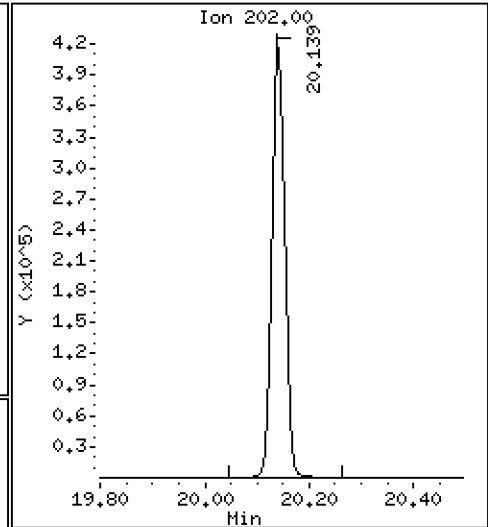
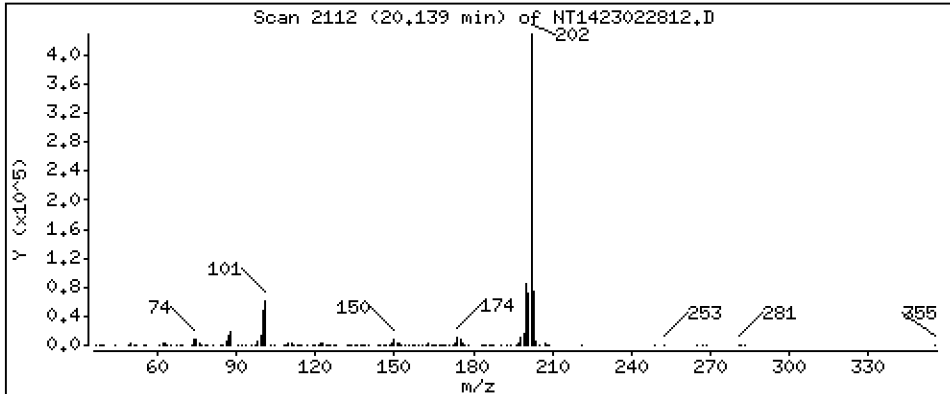
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,957 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

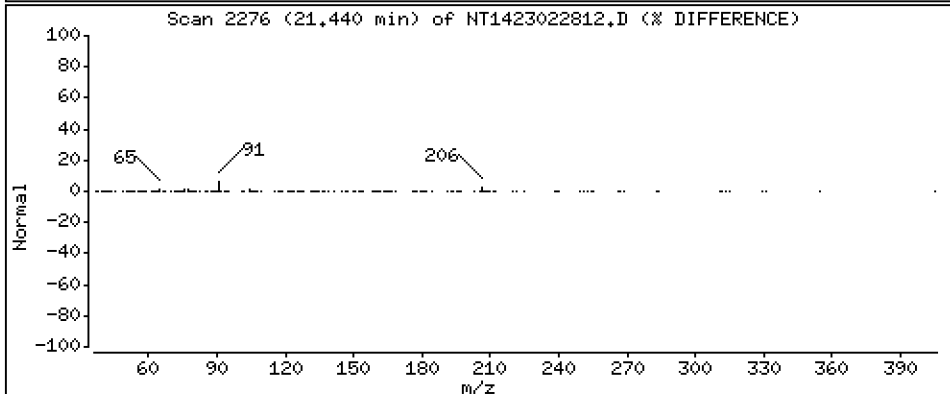
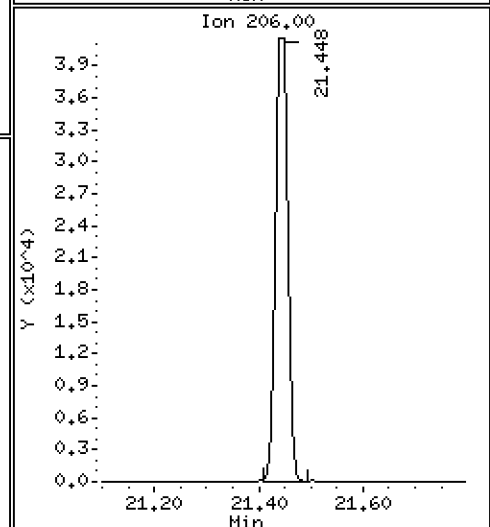
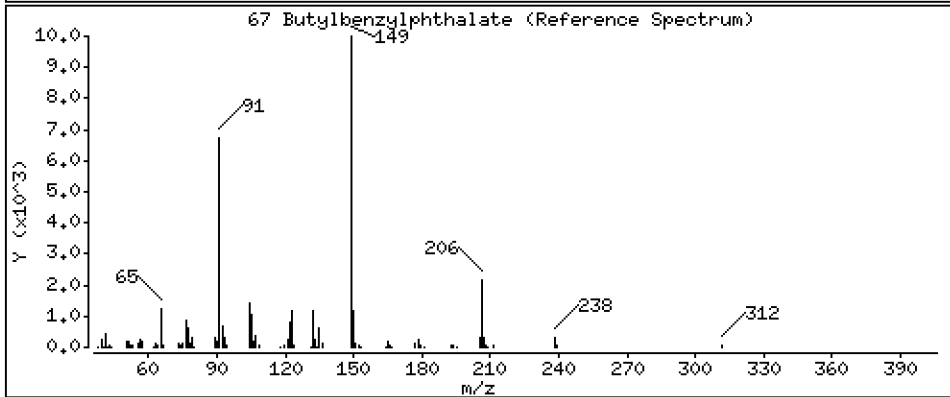
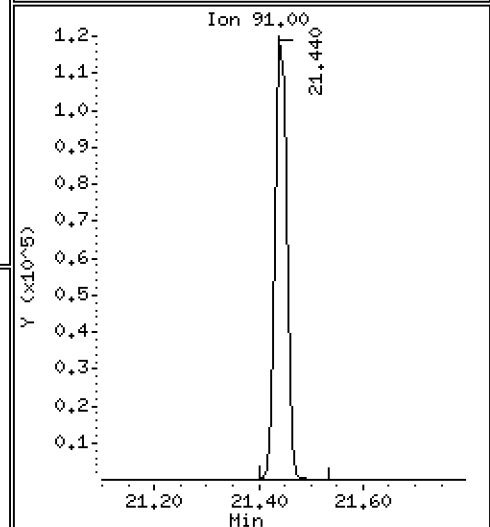
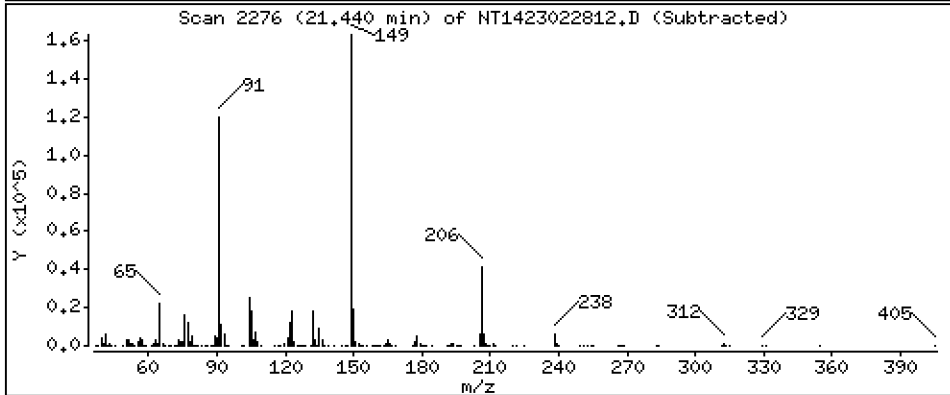
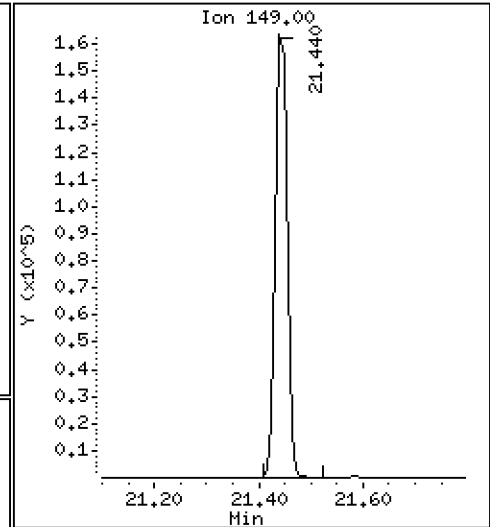
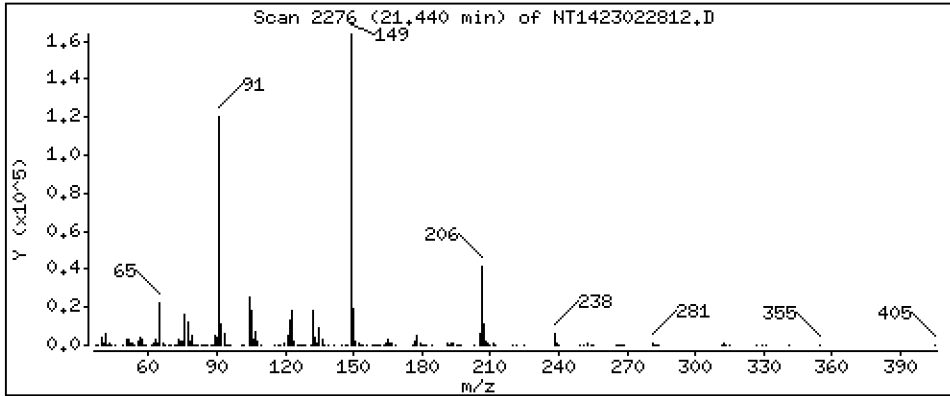
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,965 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

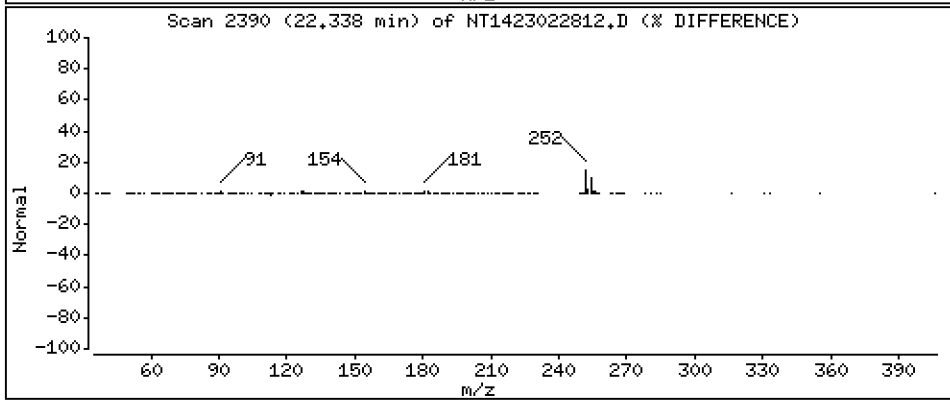
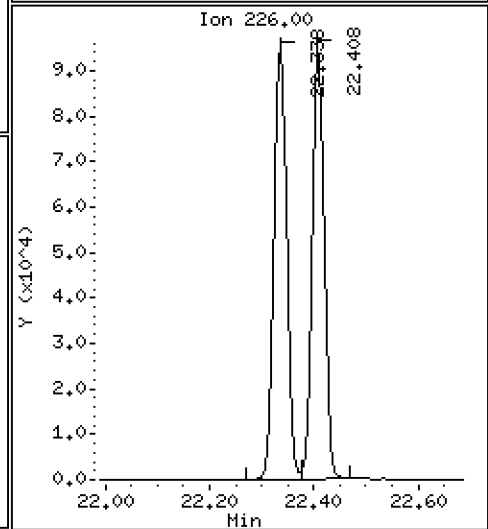
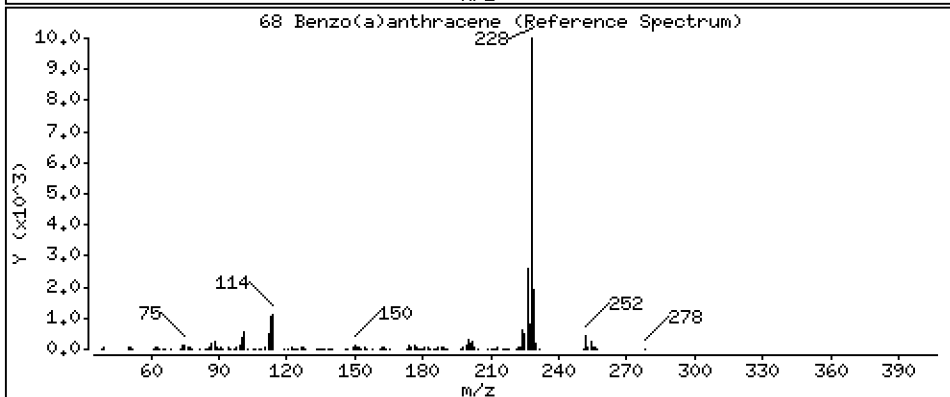
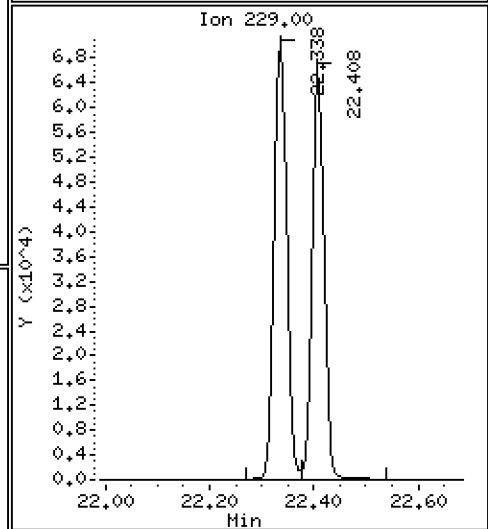
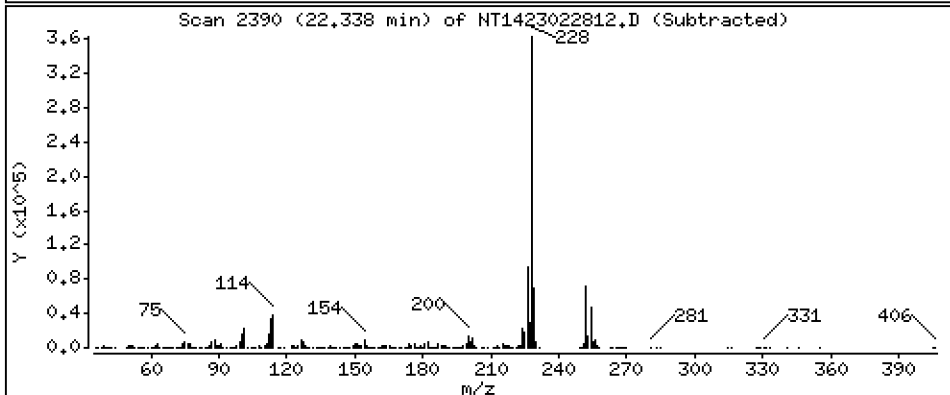
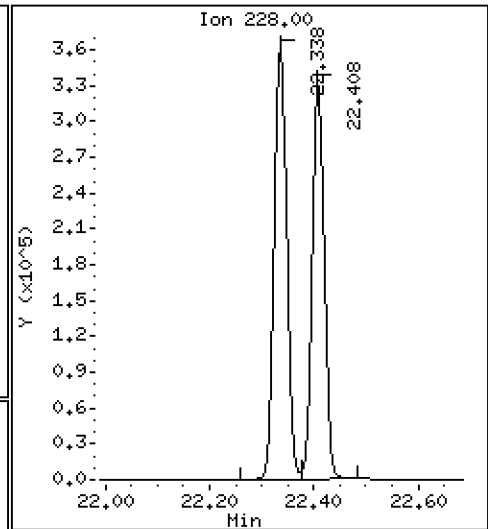
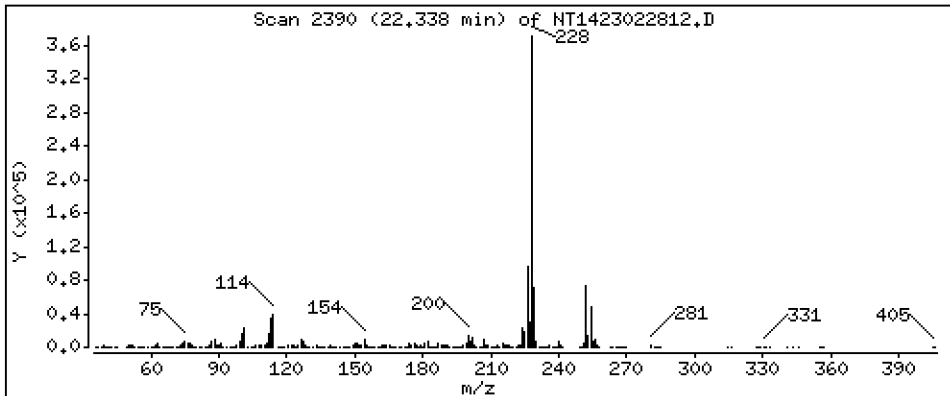
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,917 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

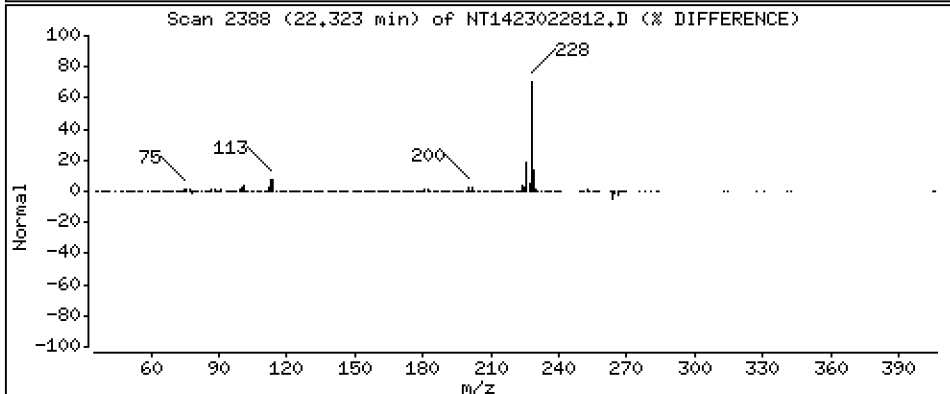
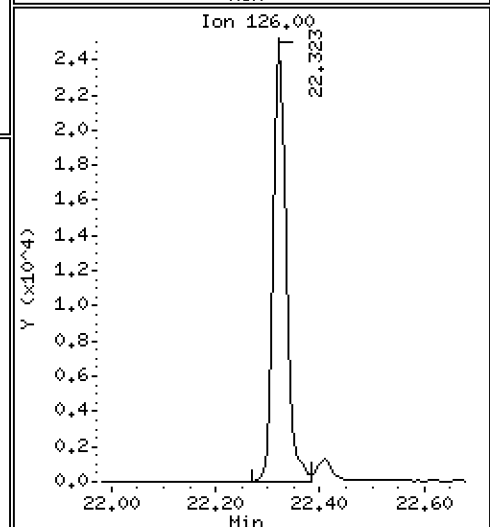
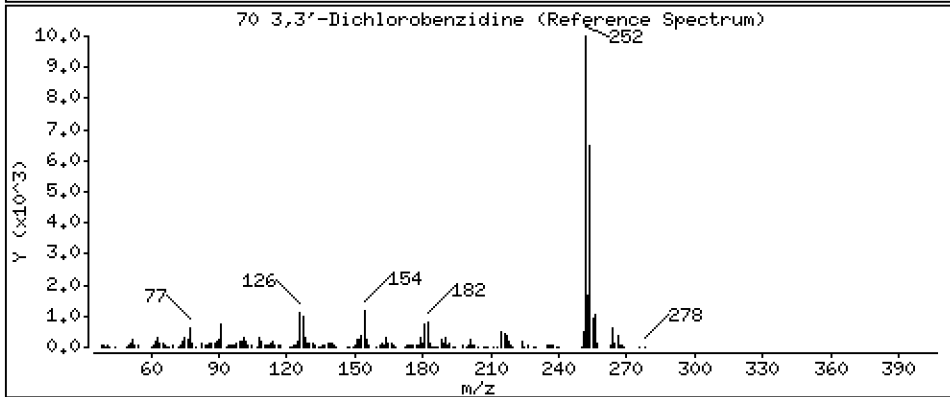
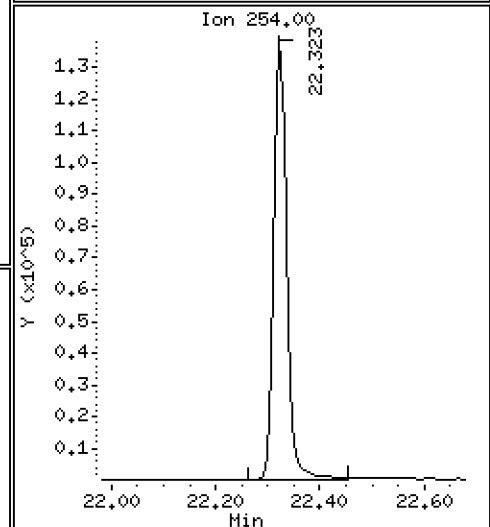
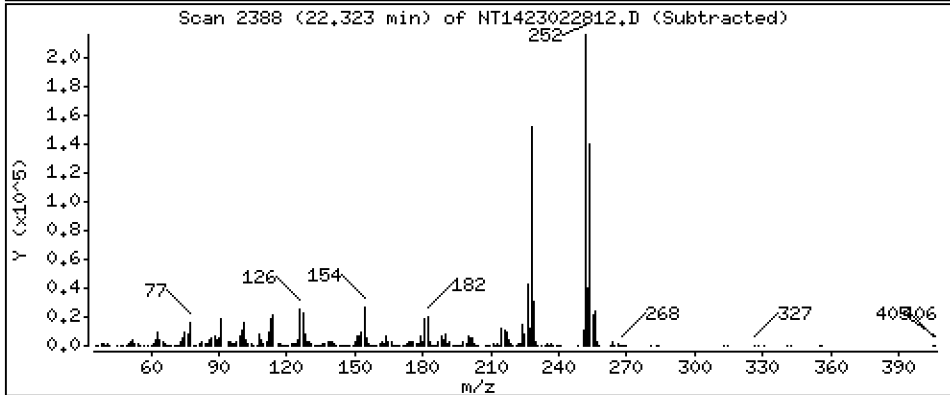
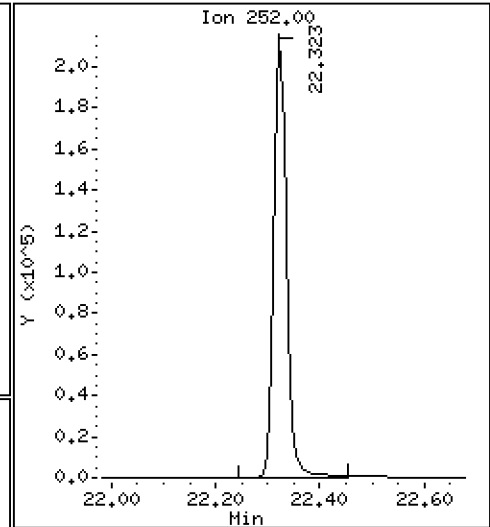
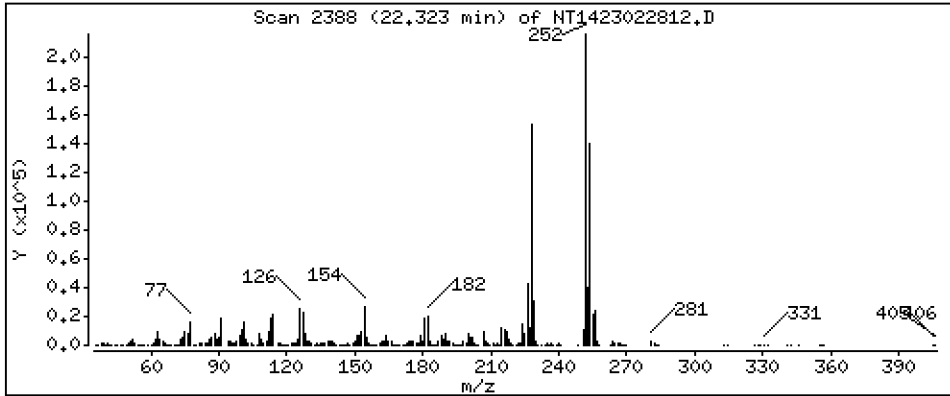
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 10,29 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

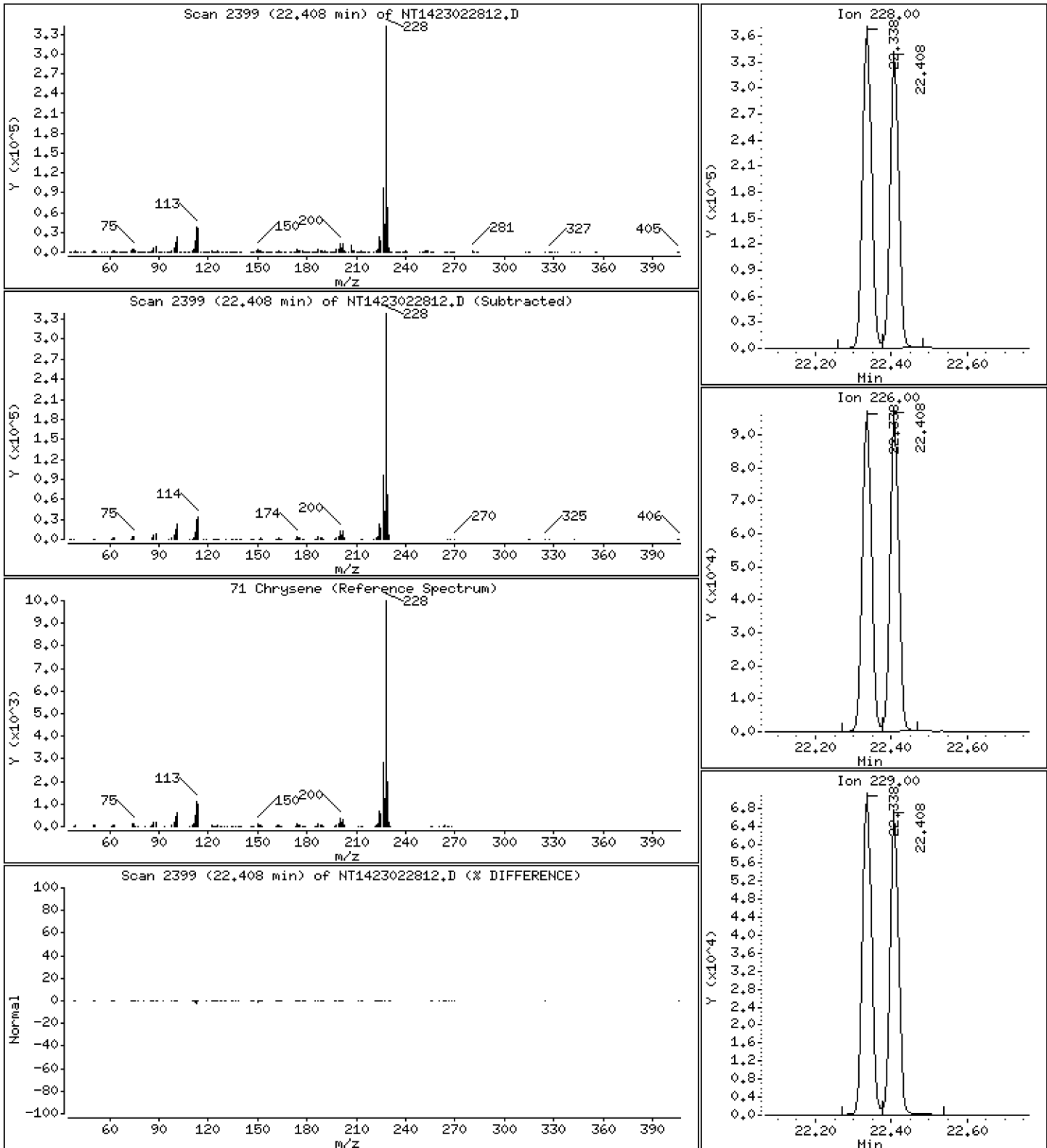
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,556 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

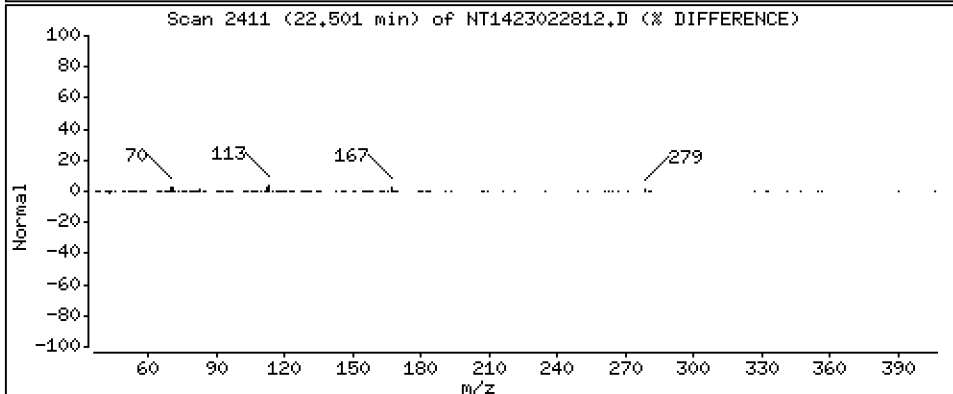
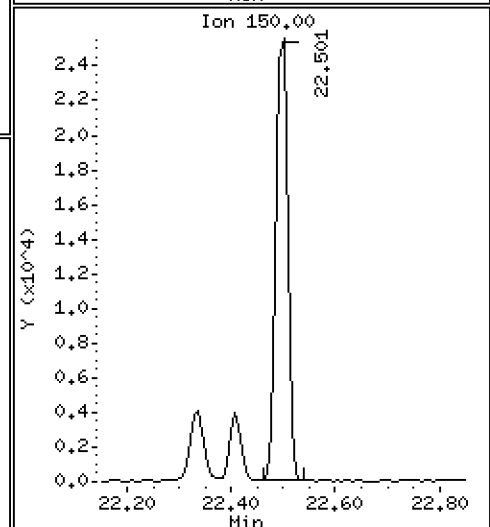
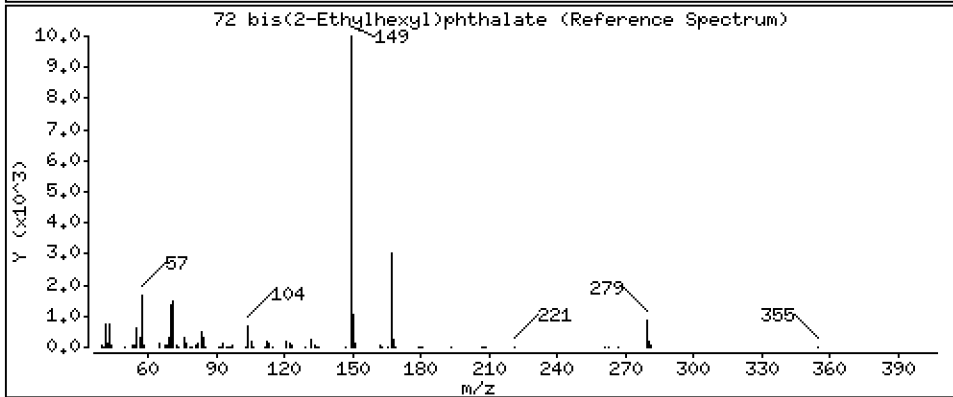
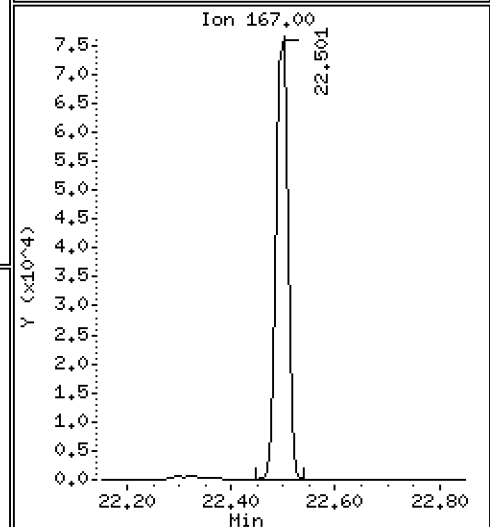
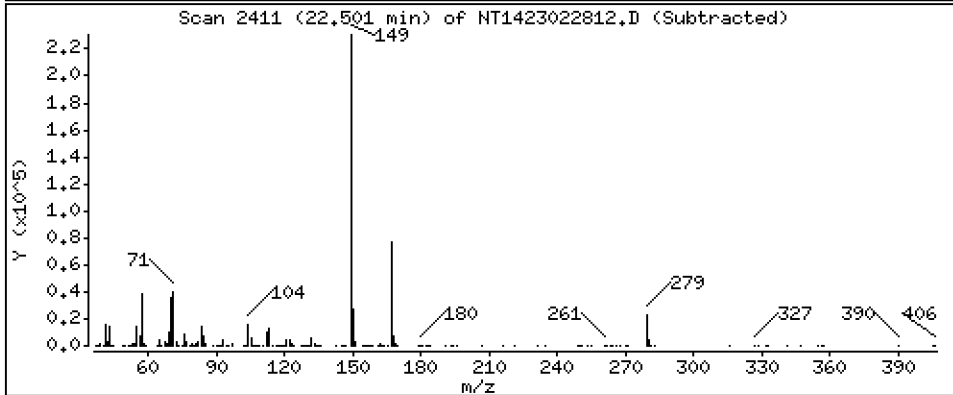
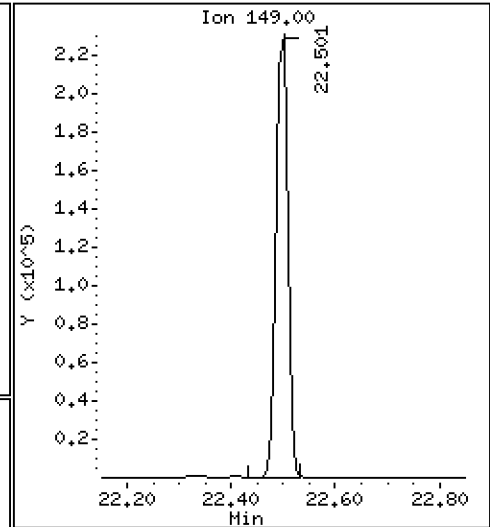
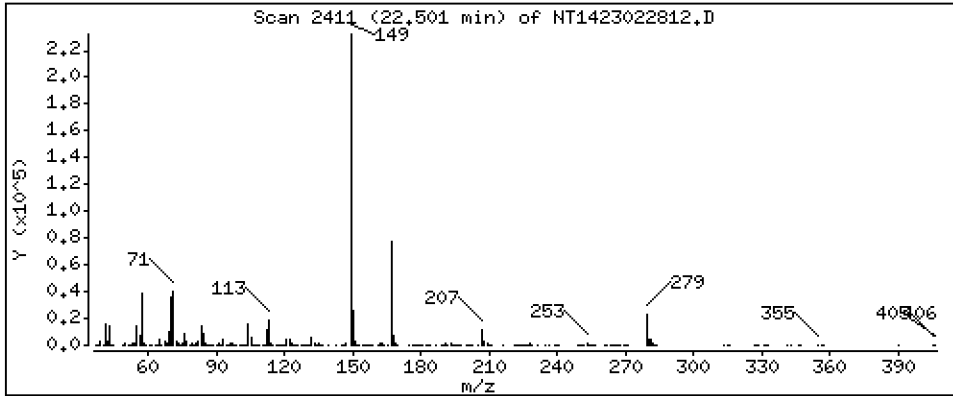
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,277 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

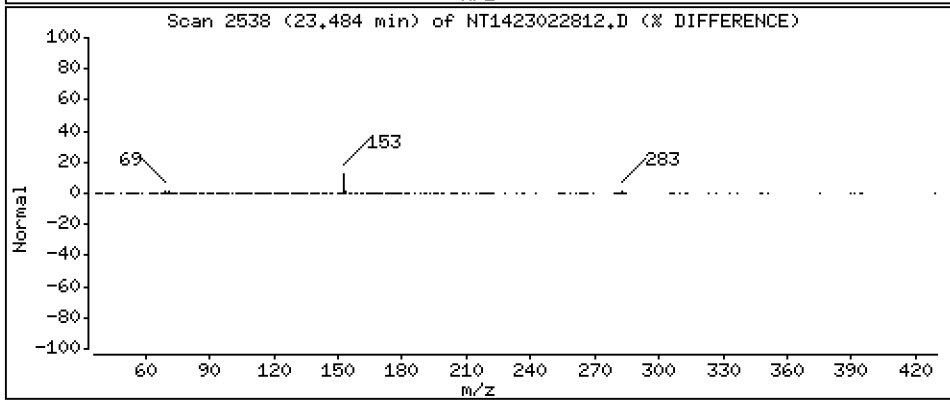
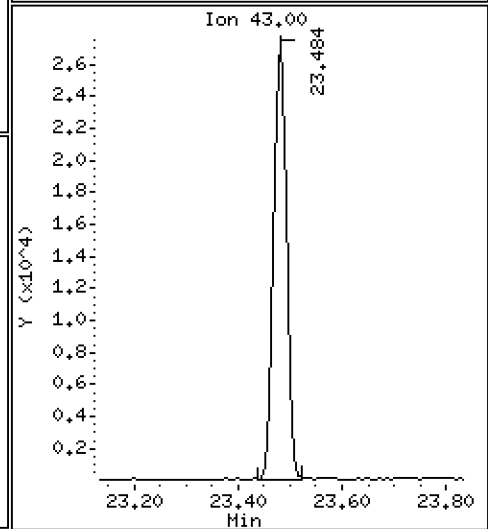
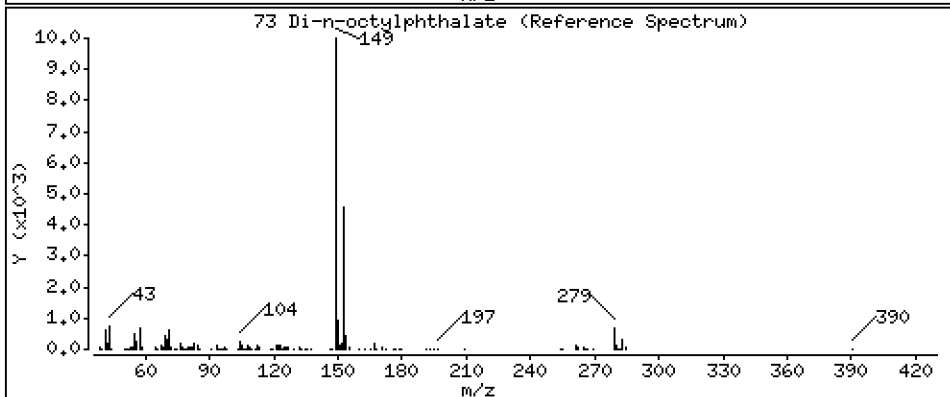
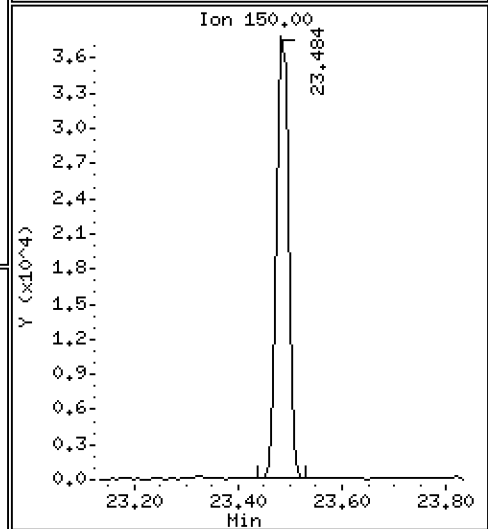
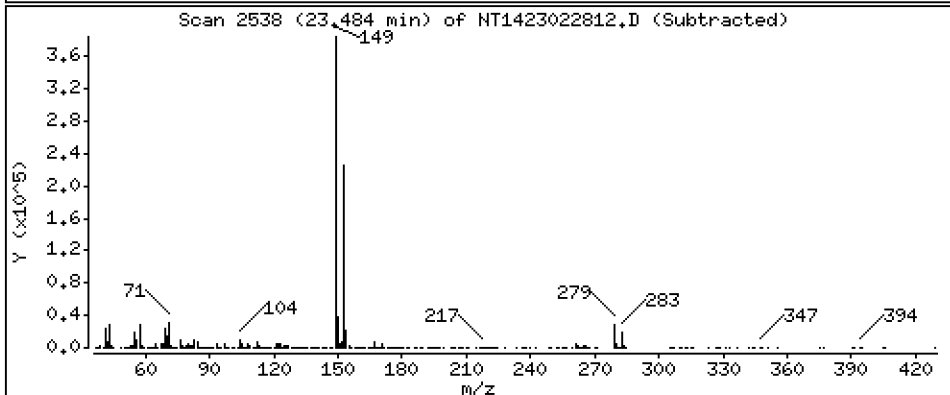
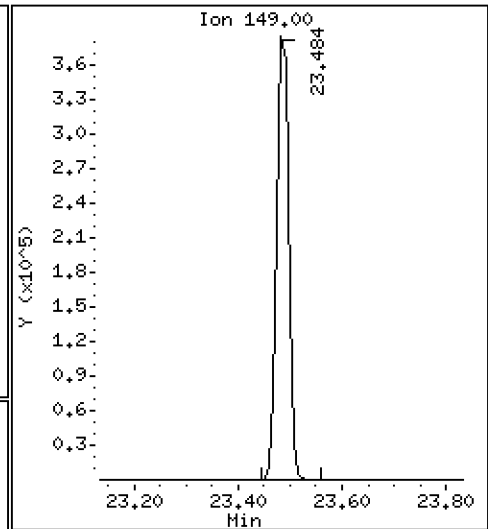
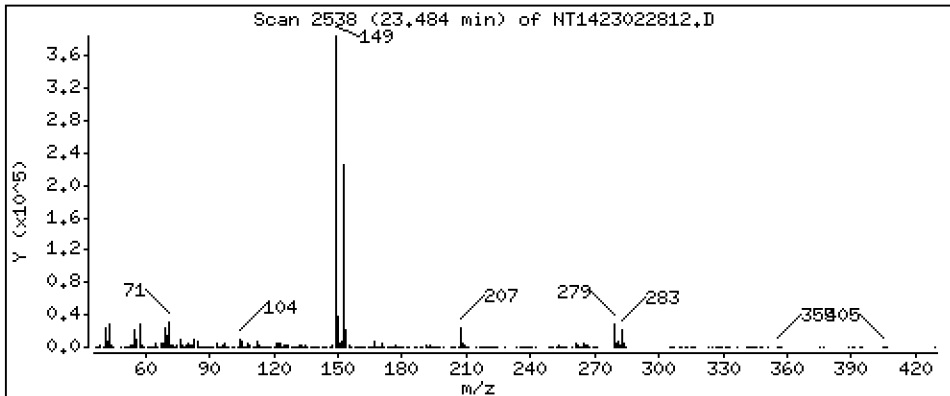
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,183 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

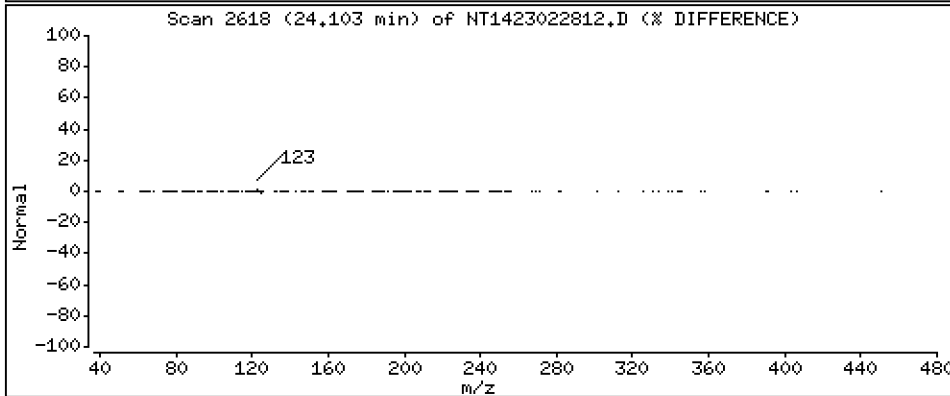
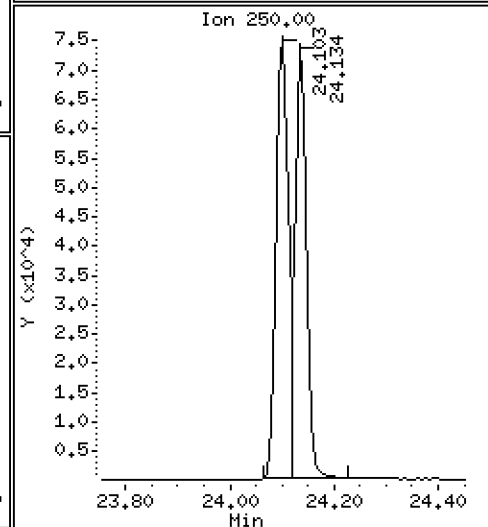
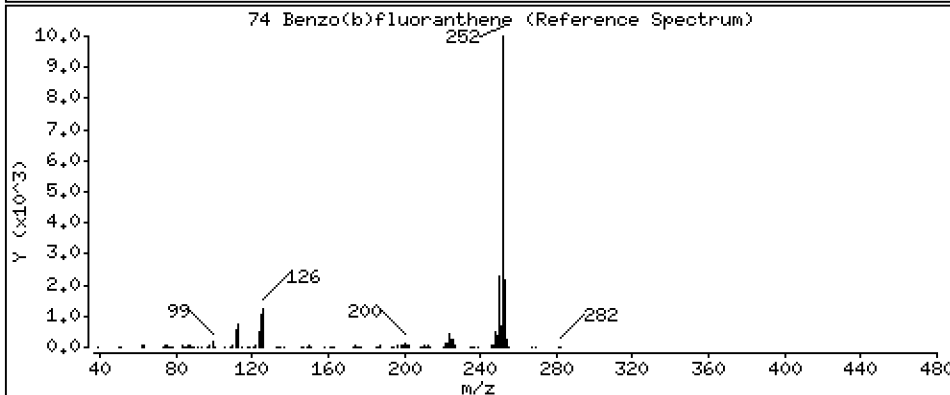
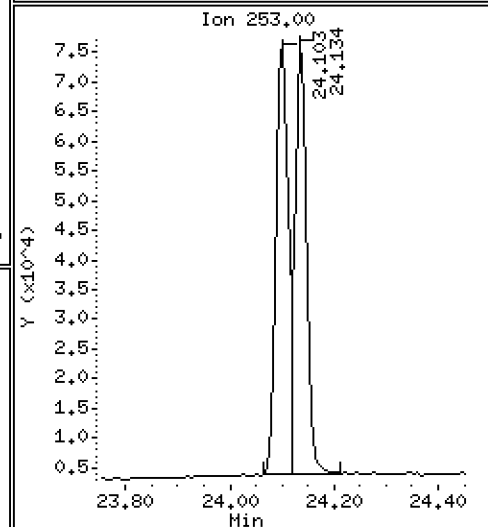
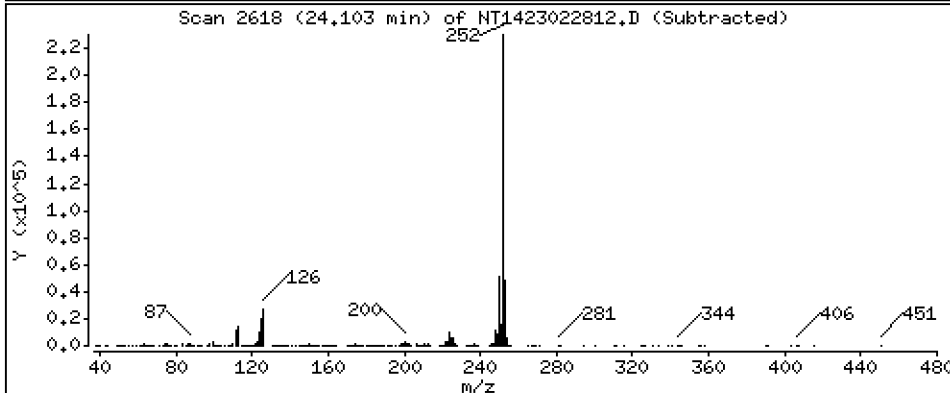
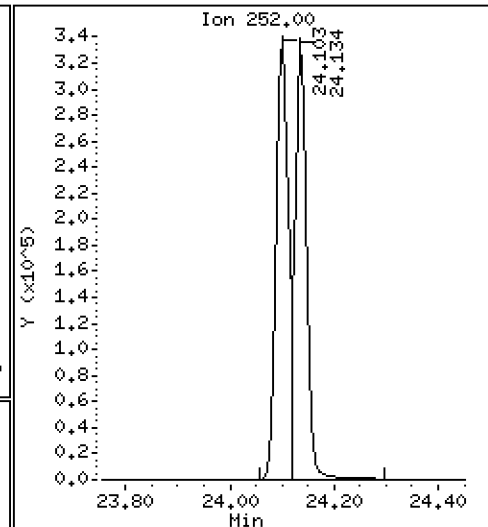
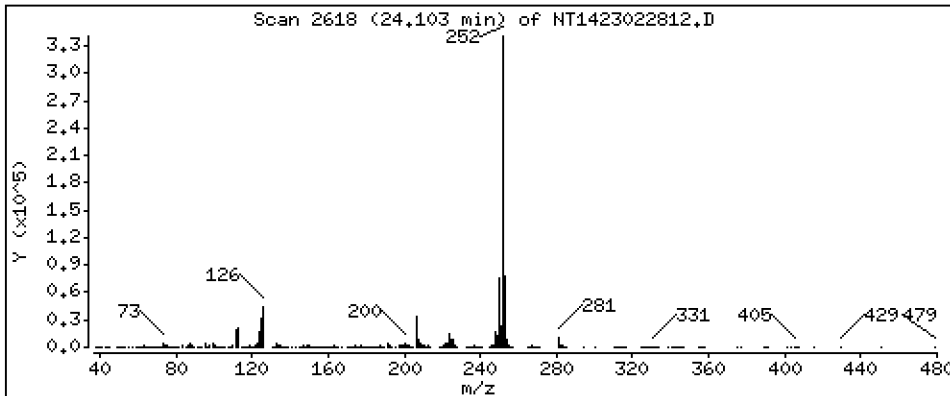
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,872 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

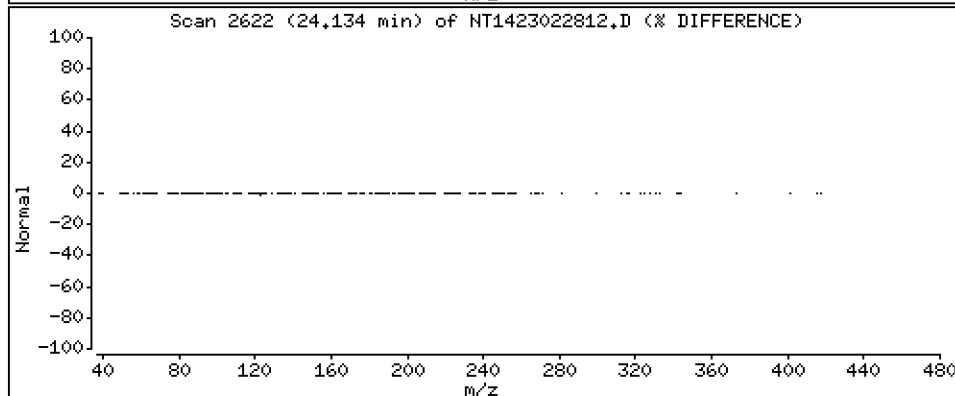
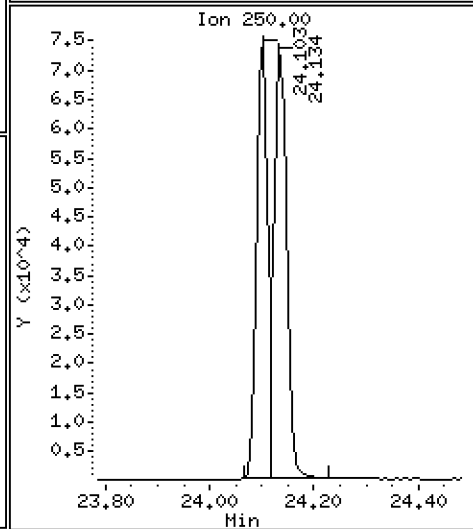
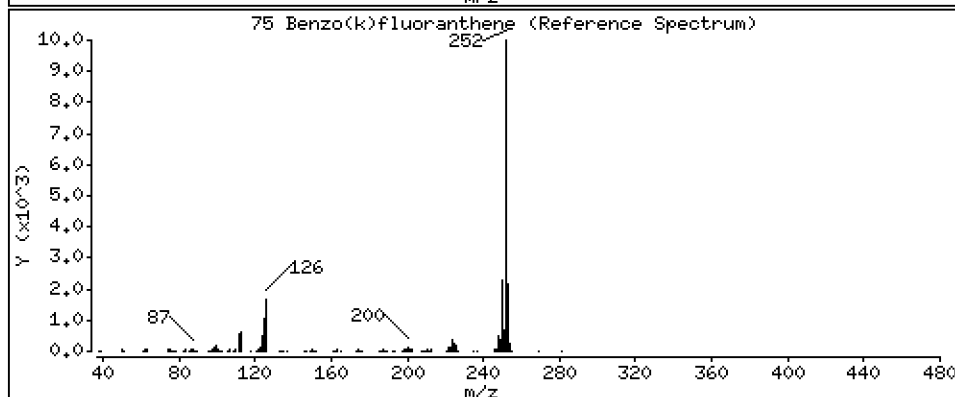
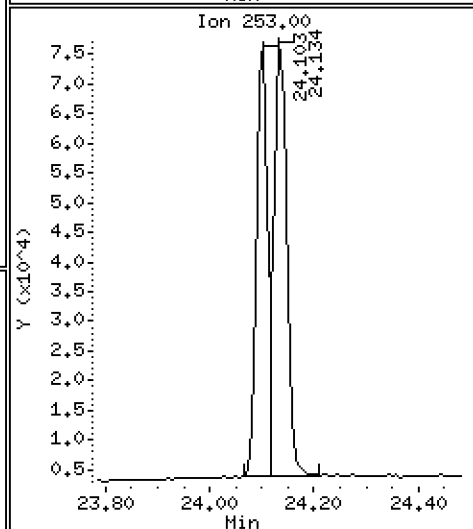
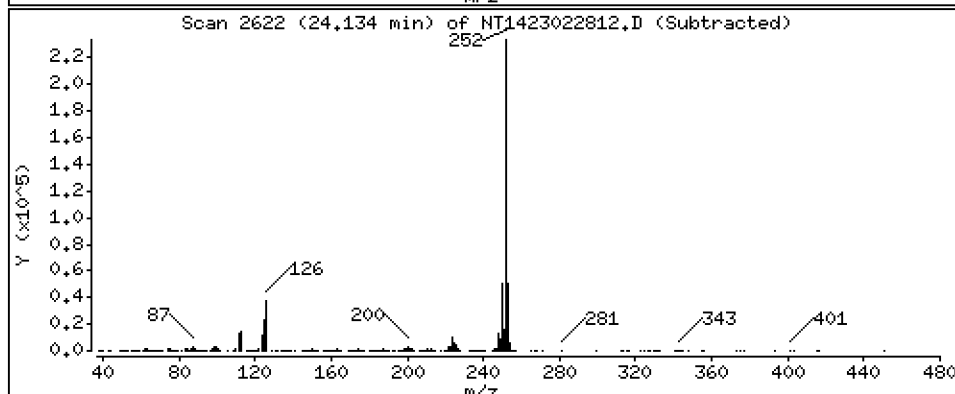
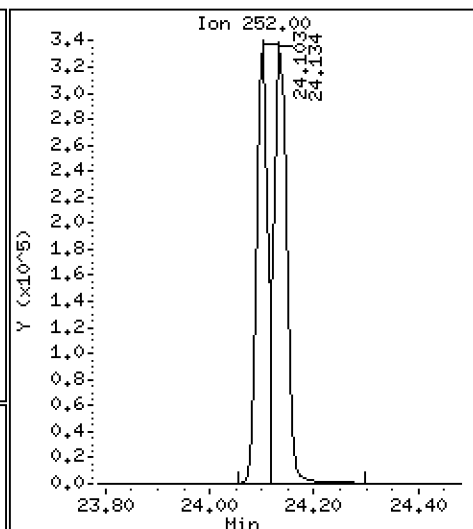
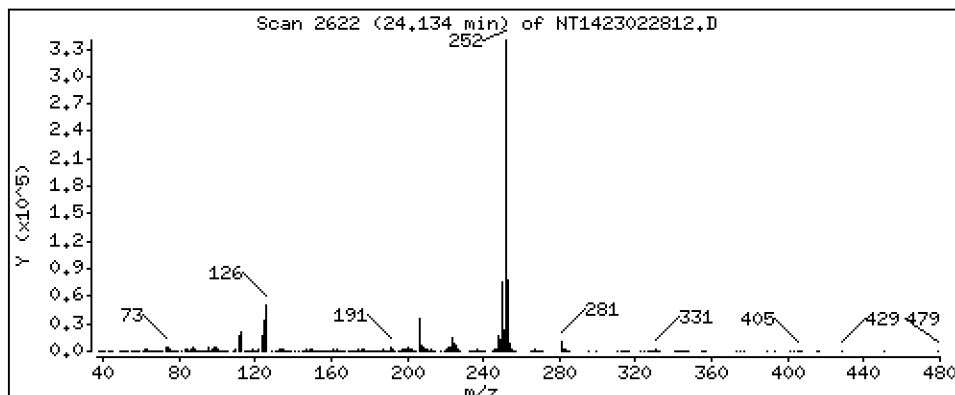
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,663 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

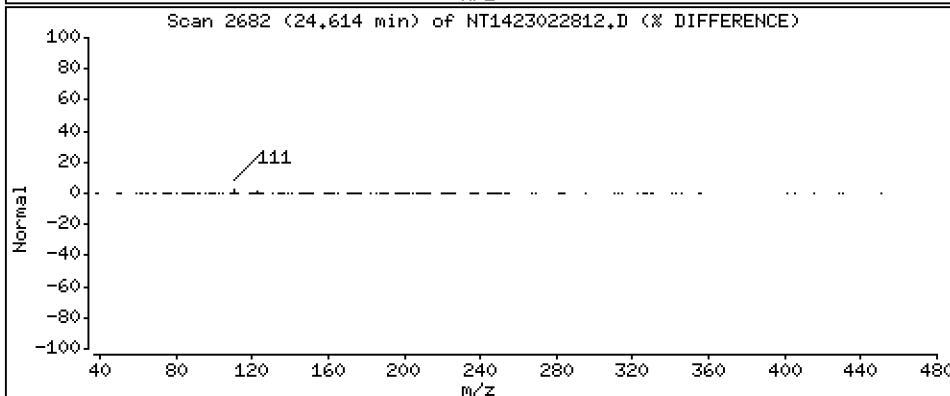
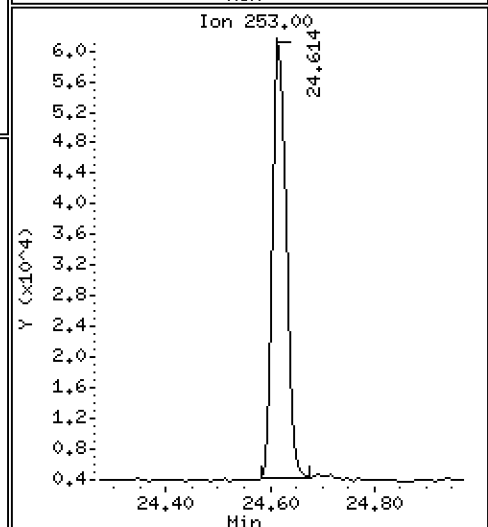
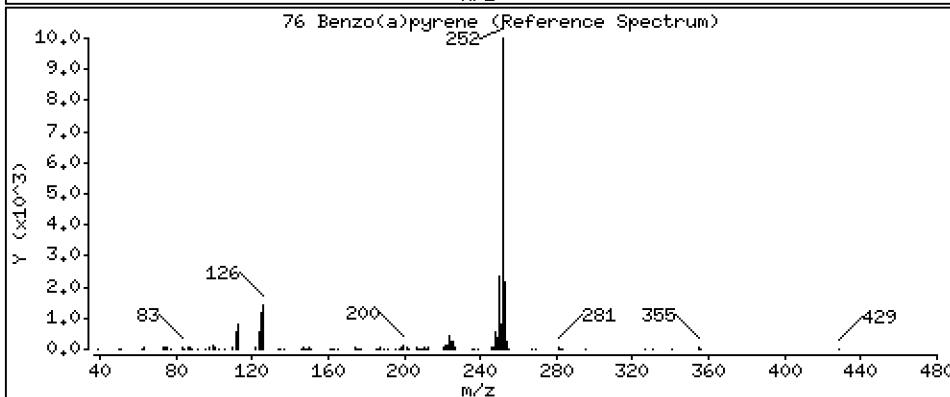
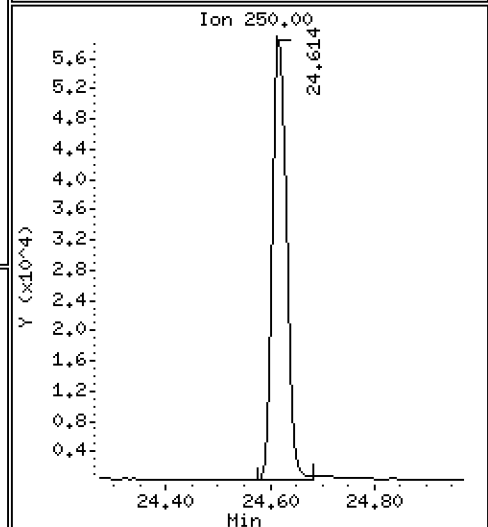
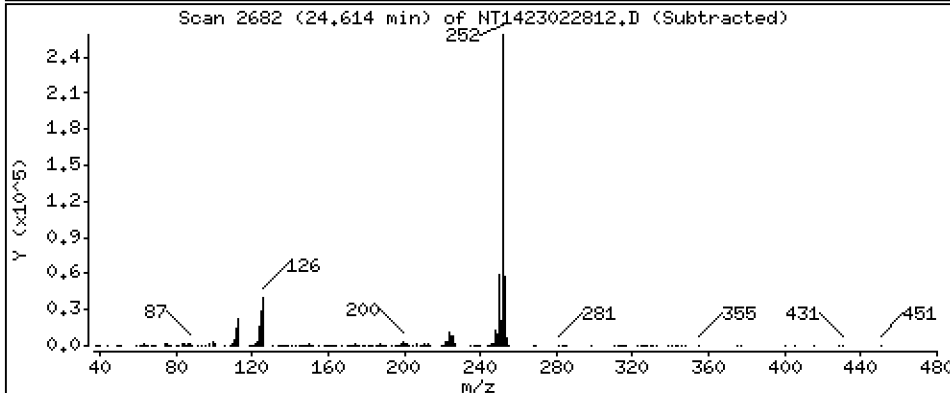
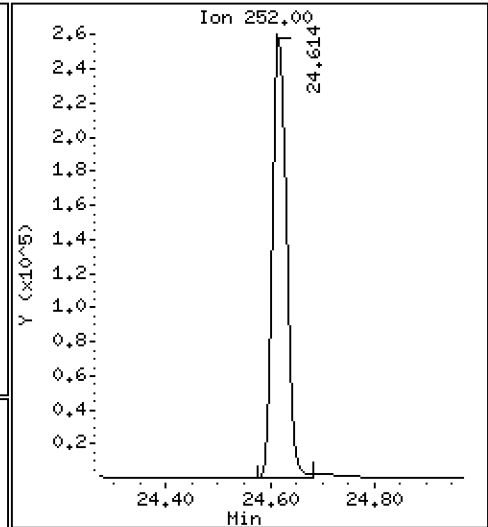
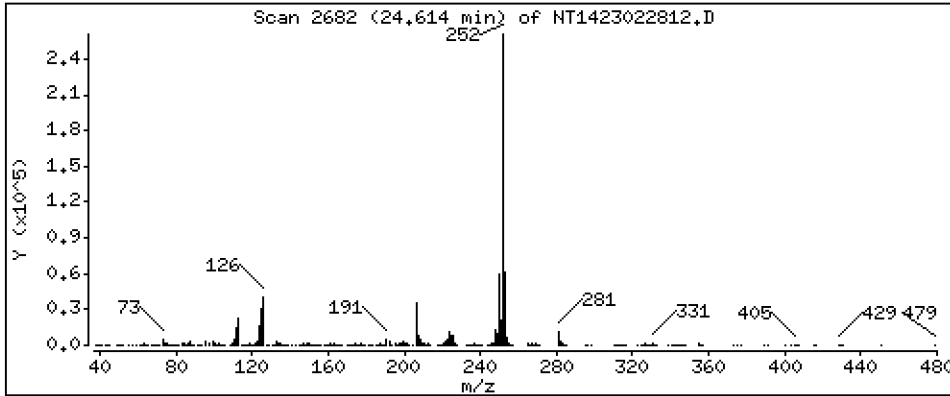
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,886 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

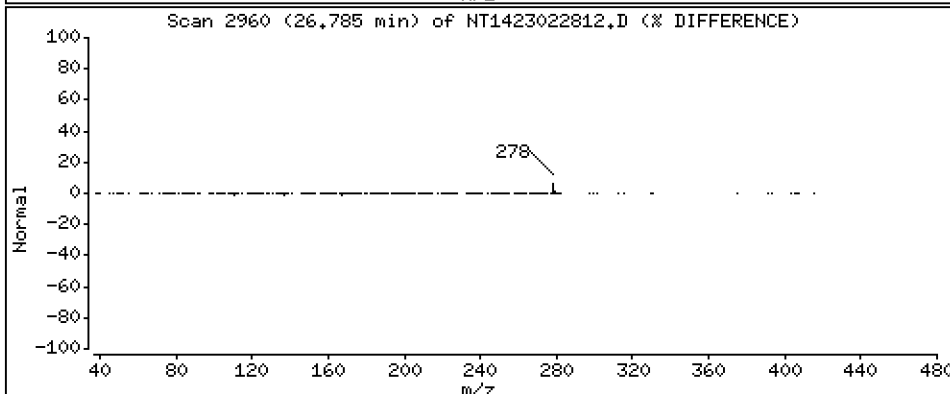
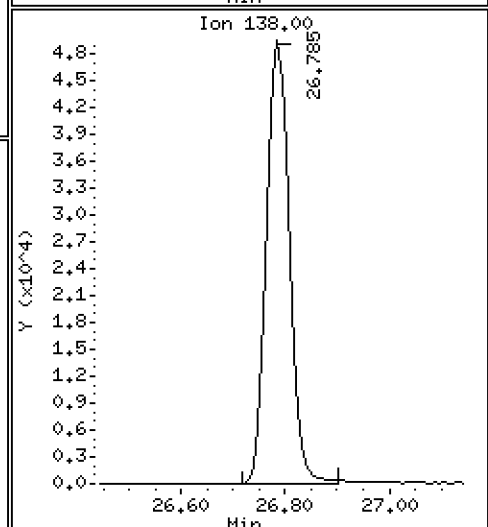
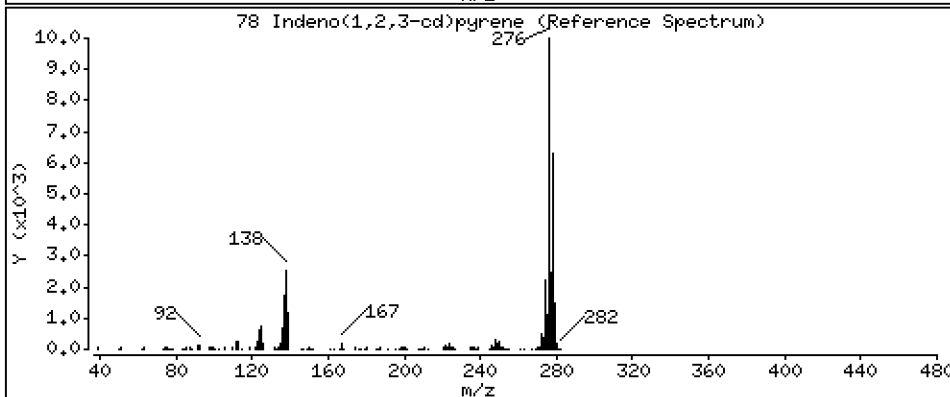
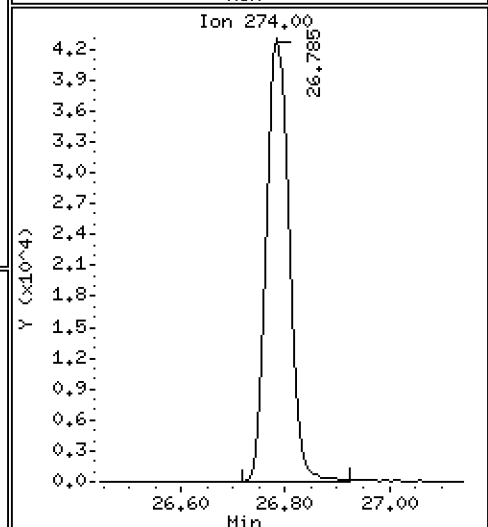
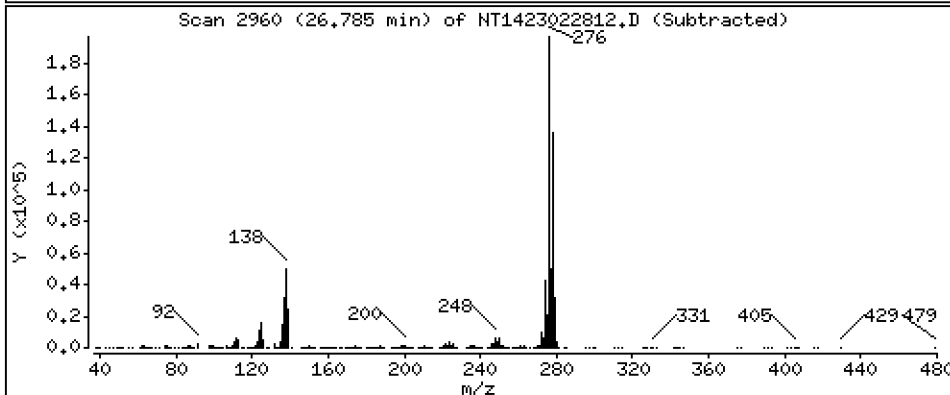
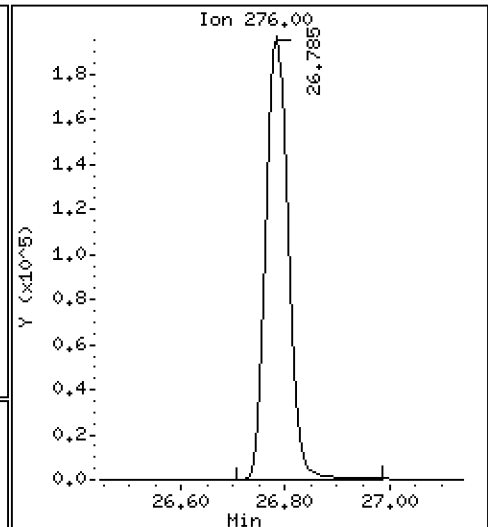
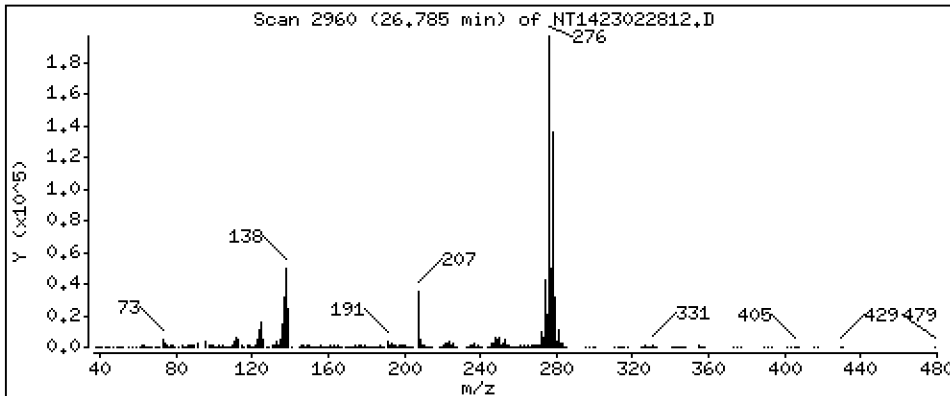
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 4,892 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

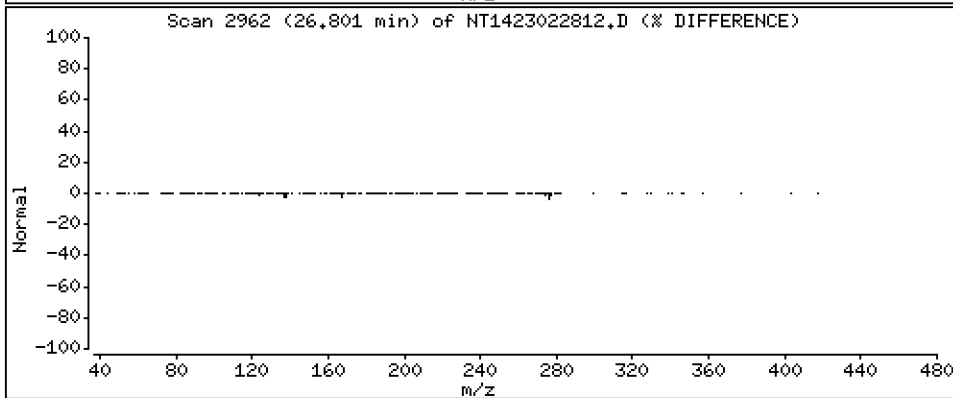
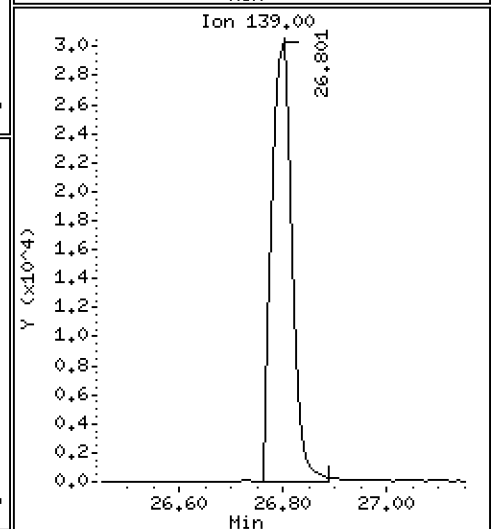
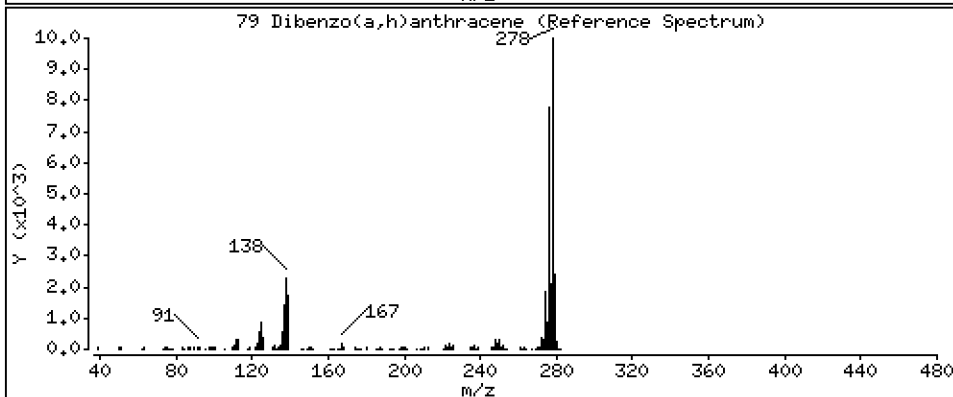
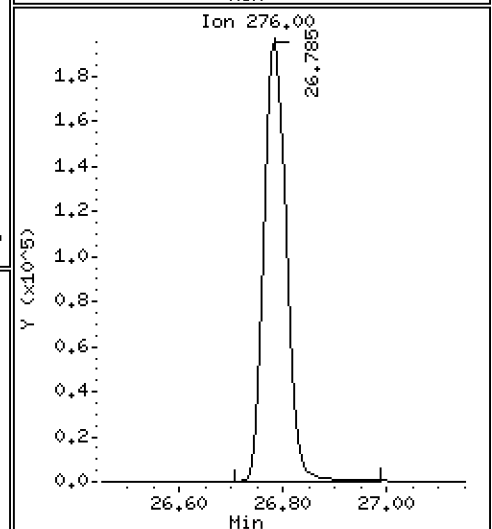
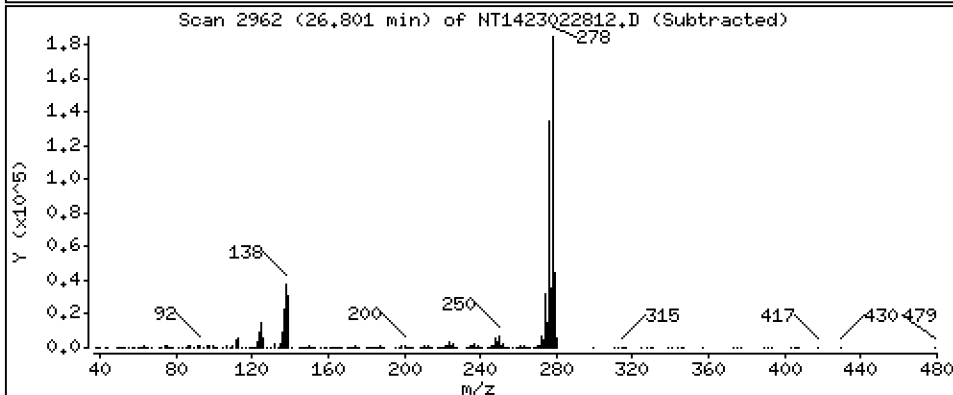
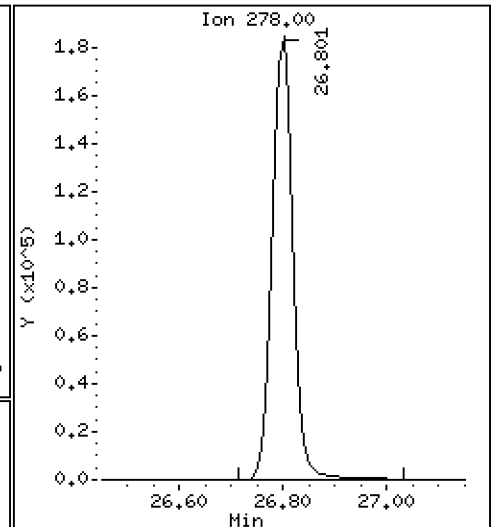
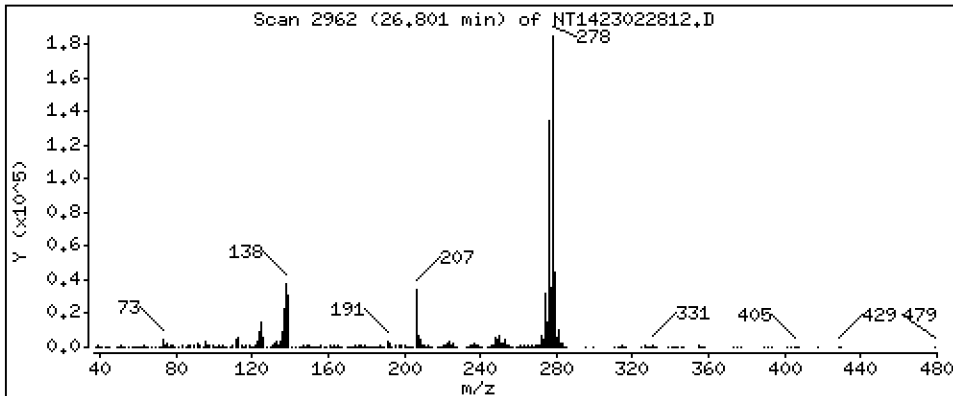
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,907 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

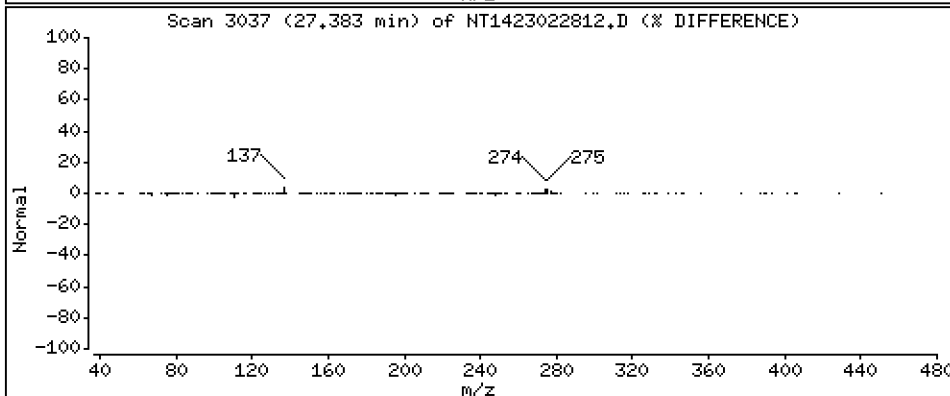
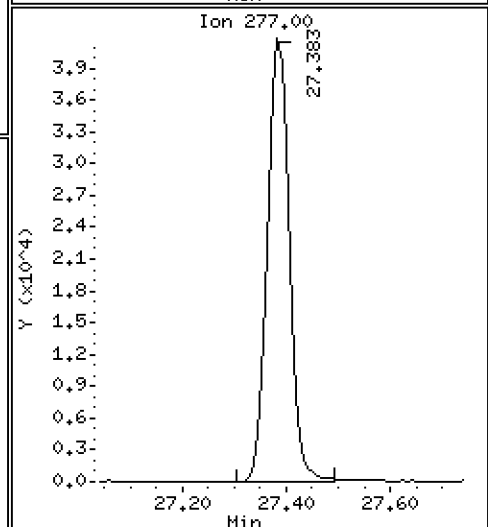
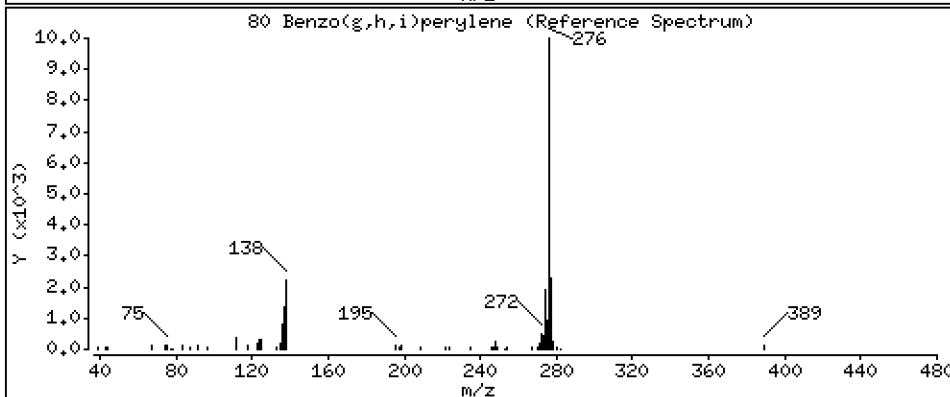
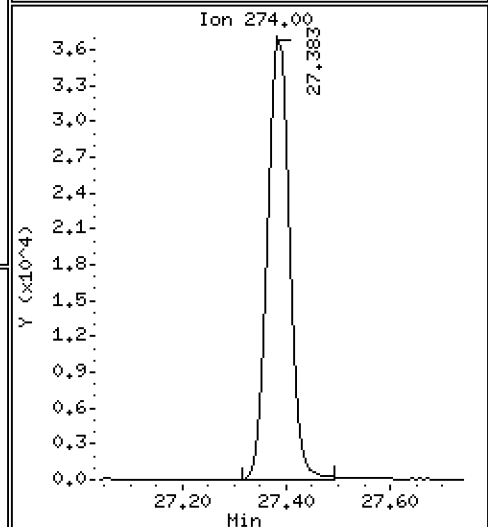
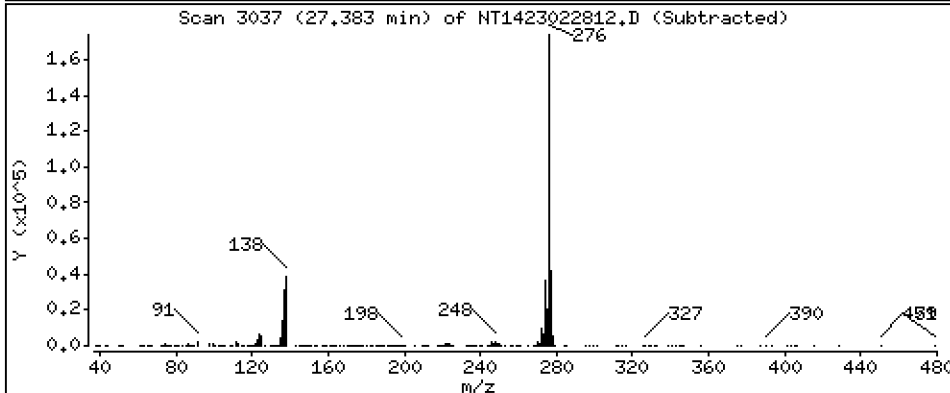
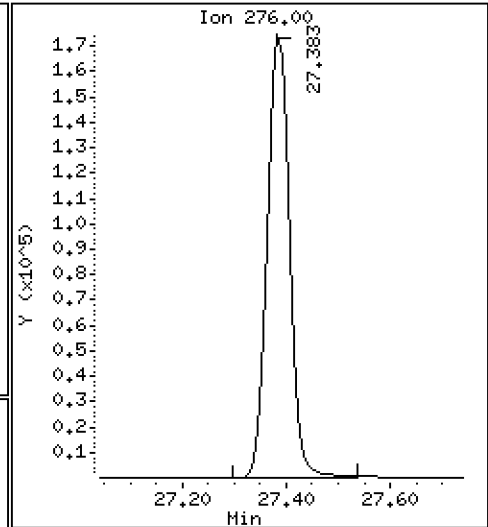
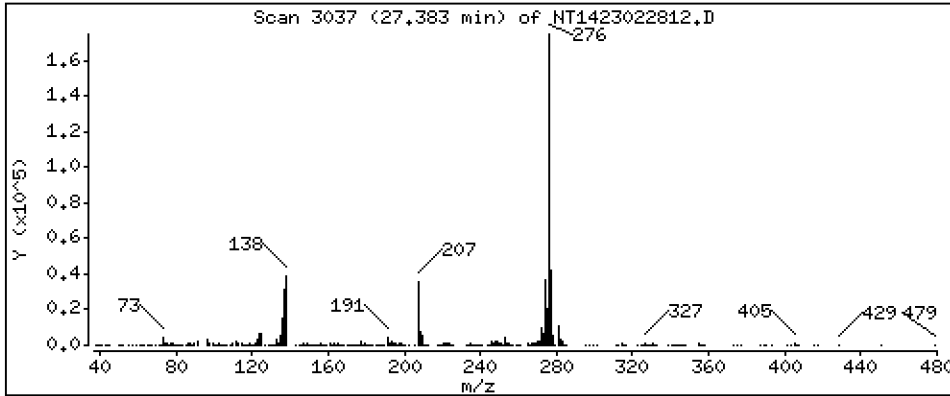
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,858 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

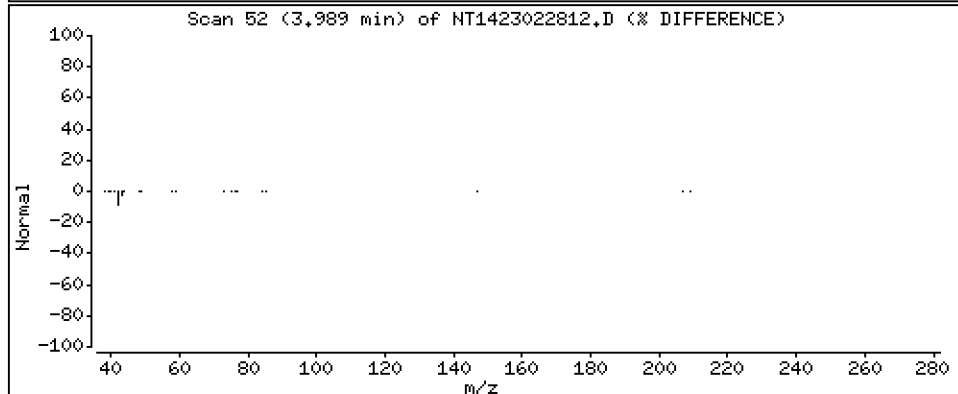
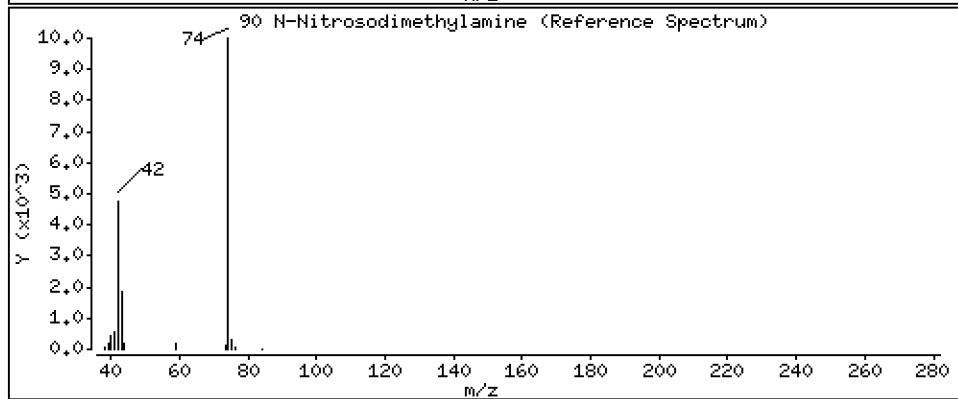
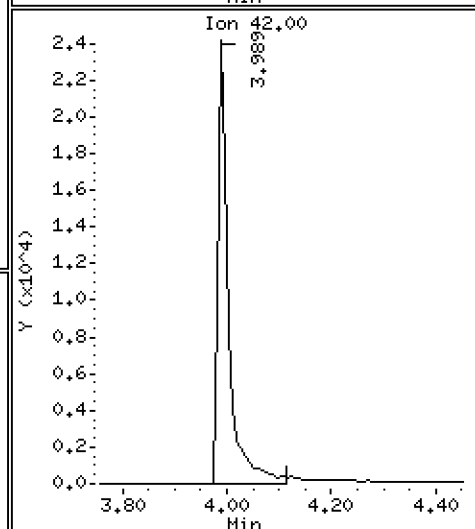
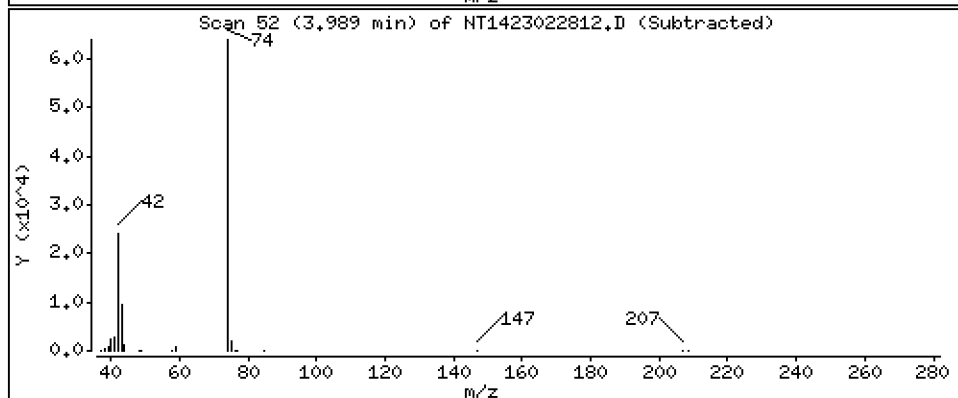
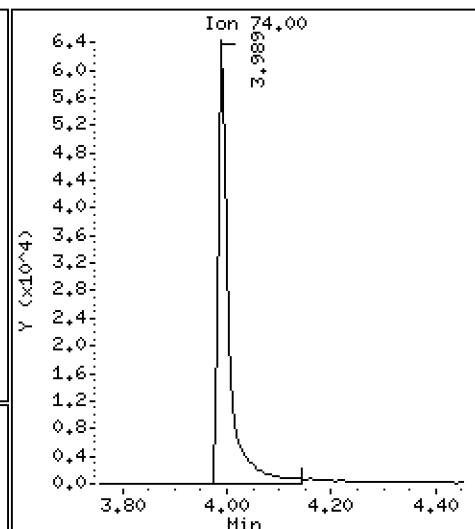
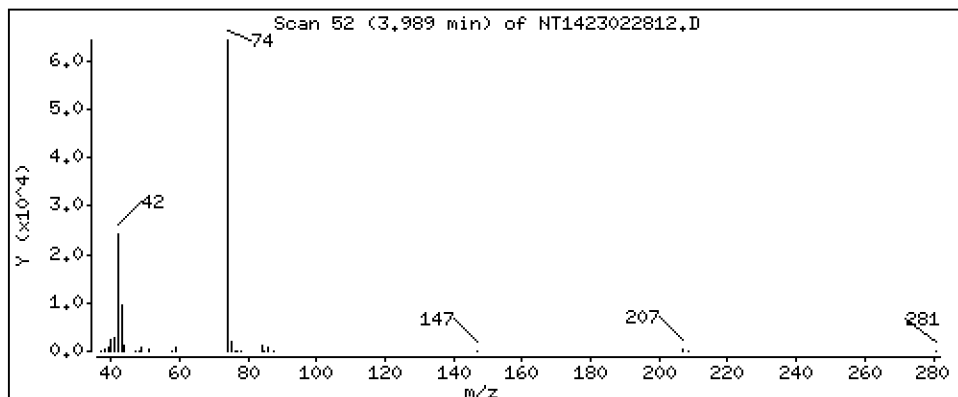
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 4,507 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

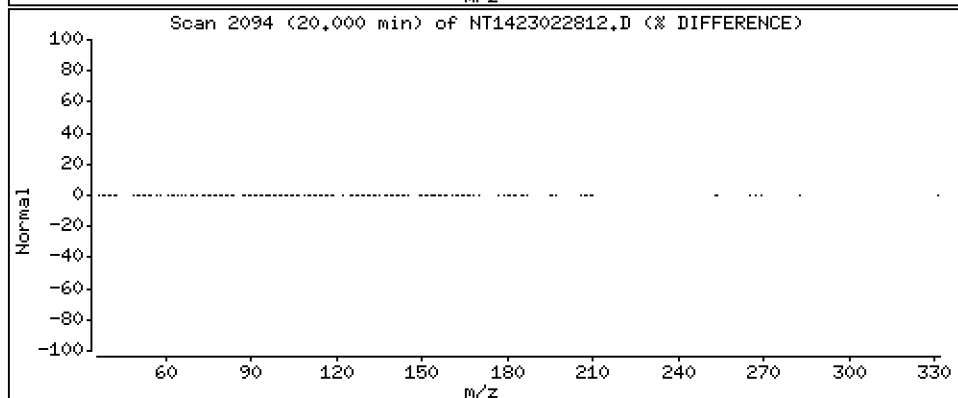
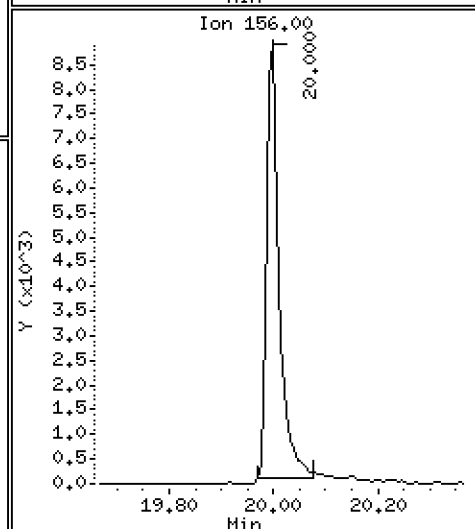
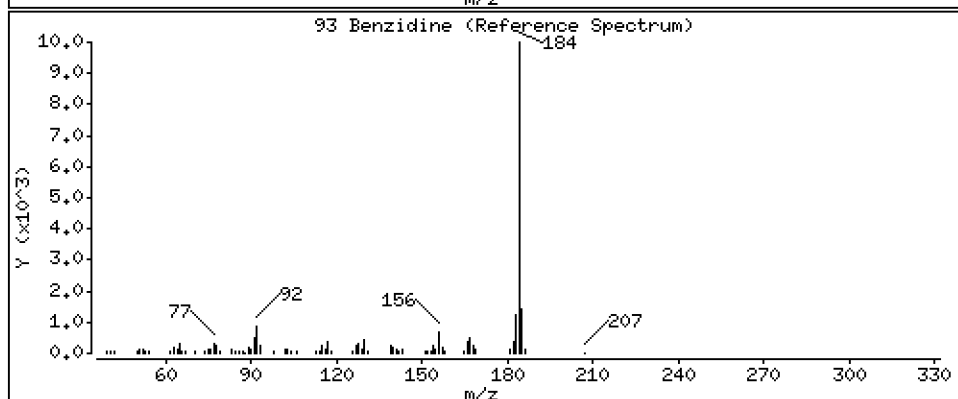
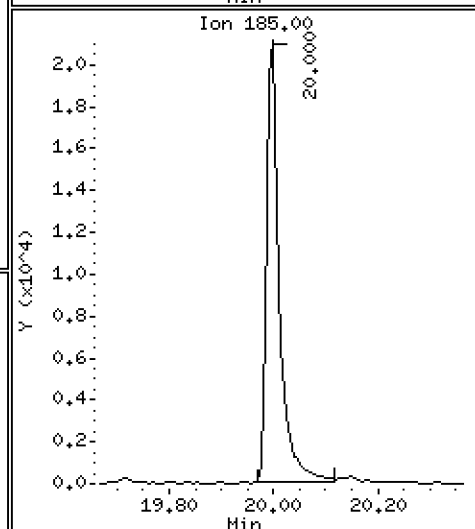
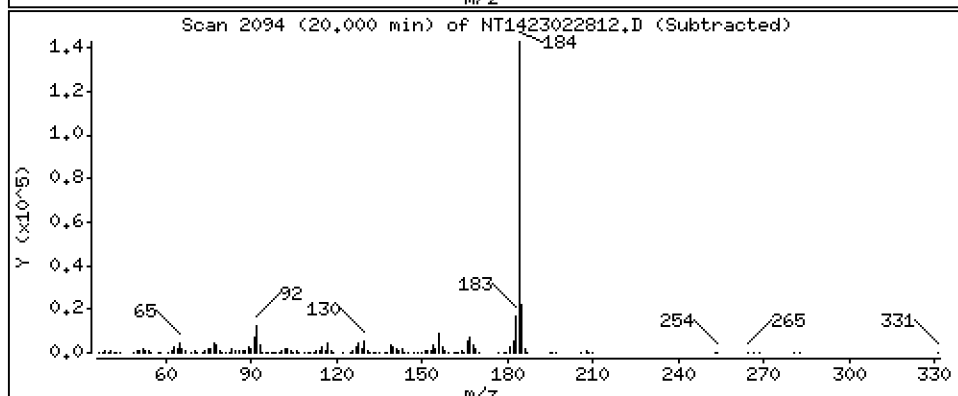
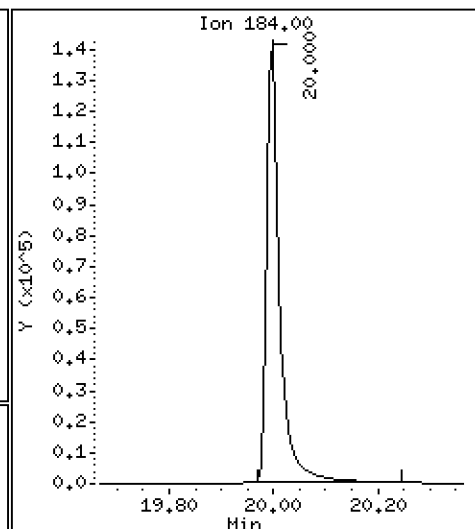
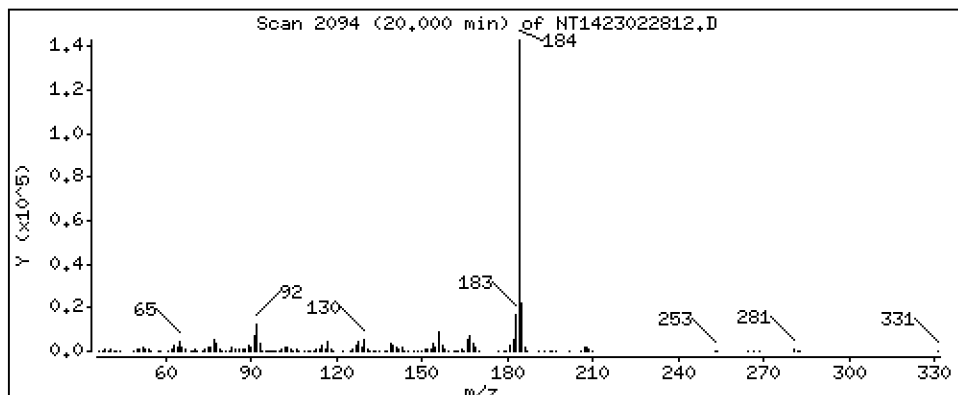
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 4,509 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

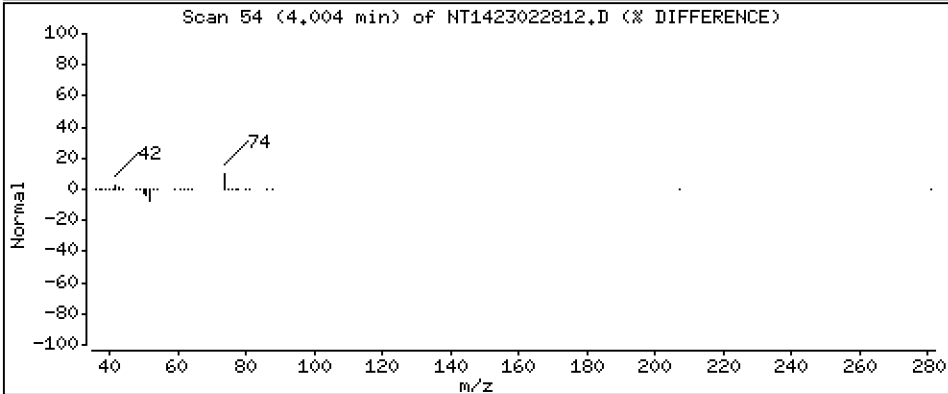
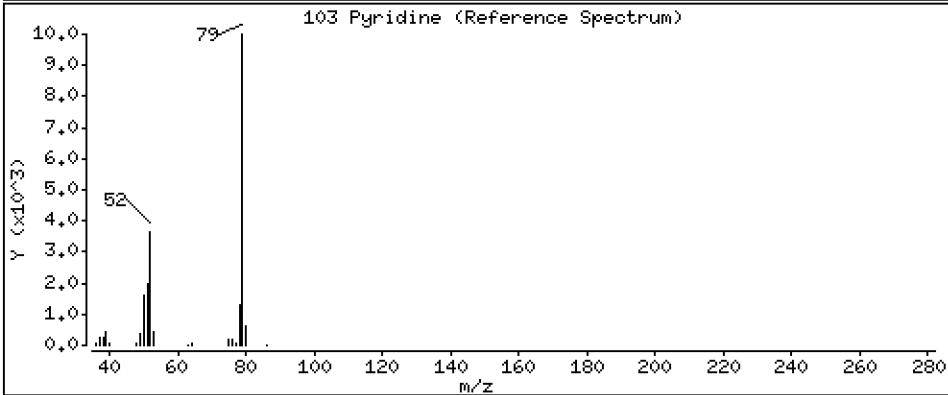
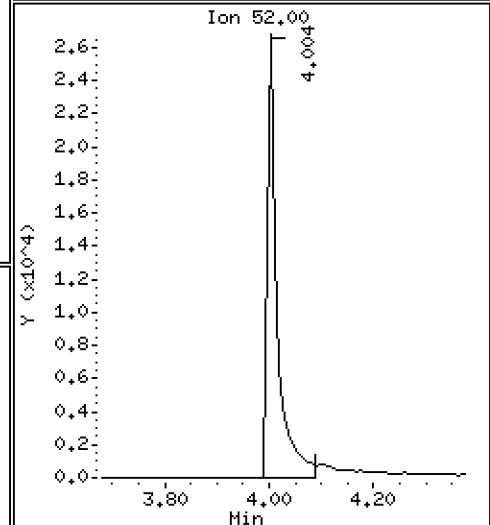
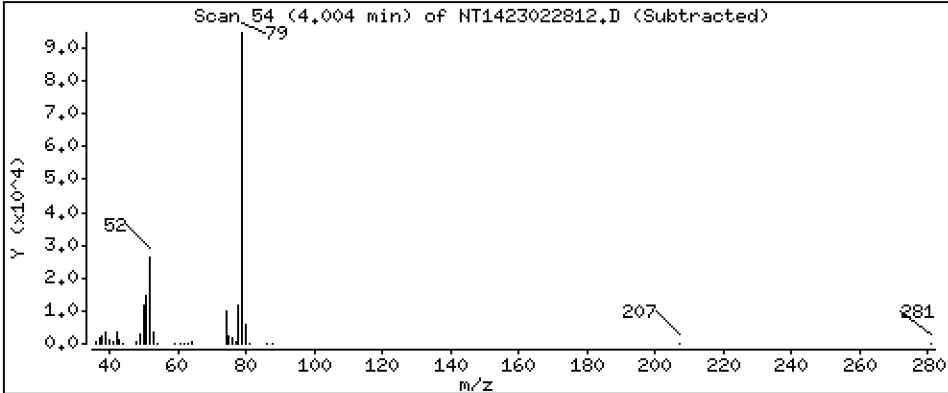
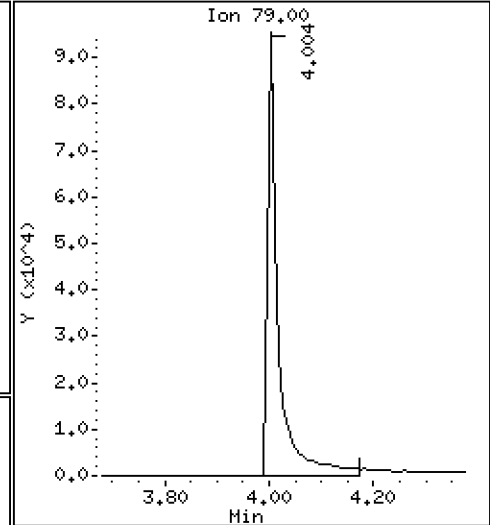
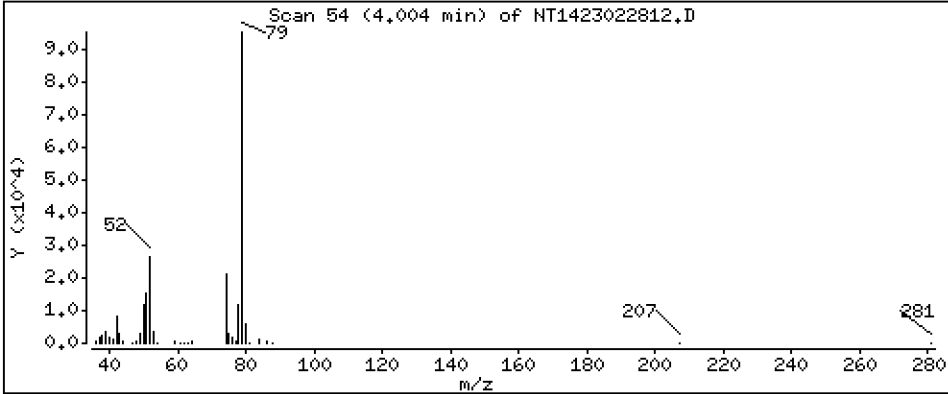
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 2,196 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

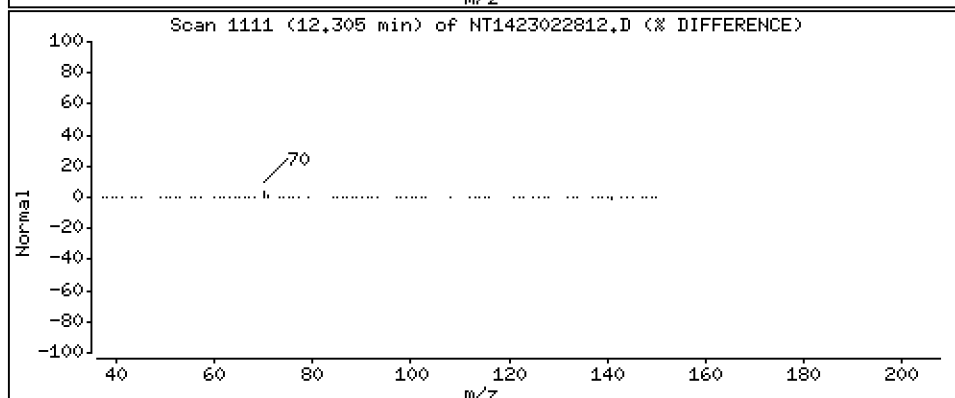
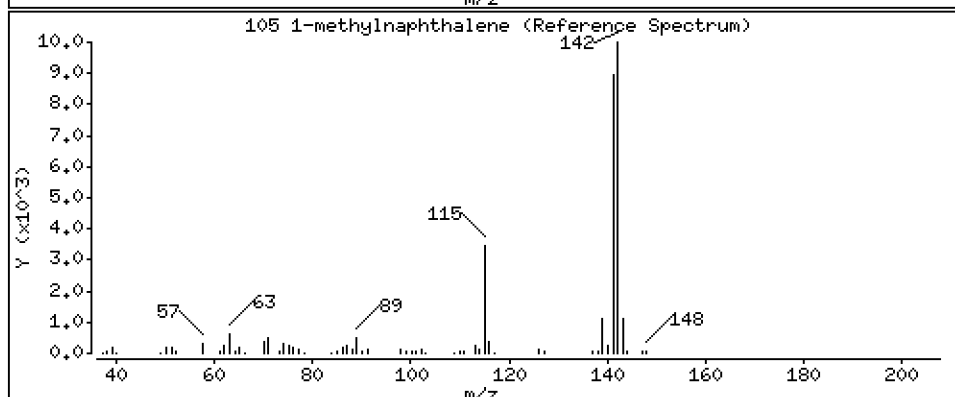
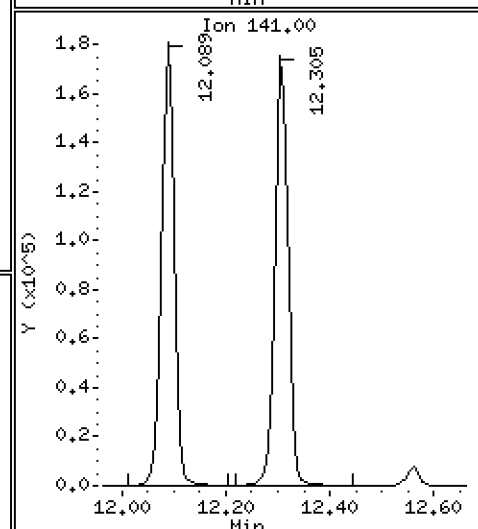
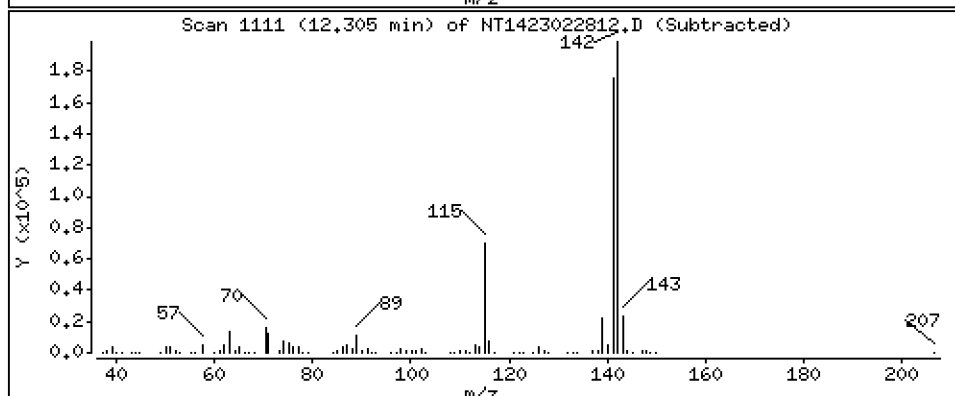
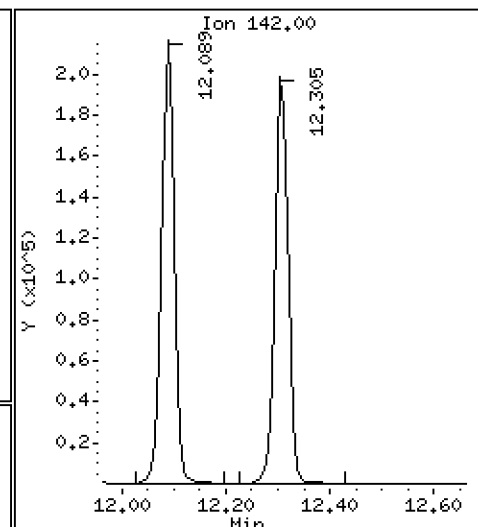
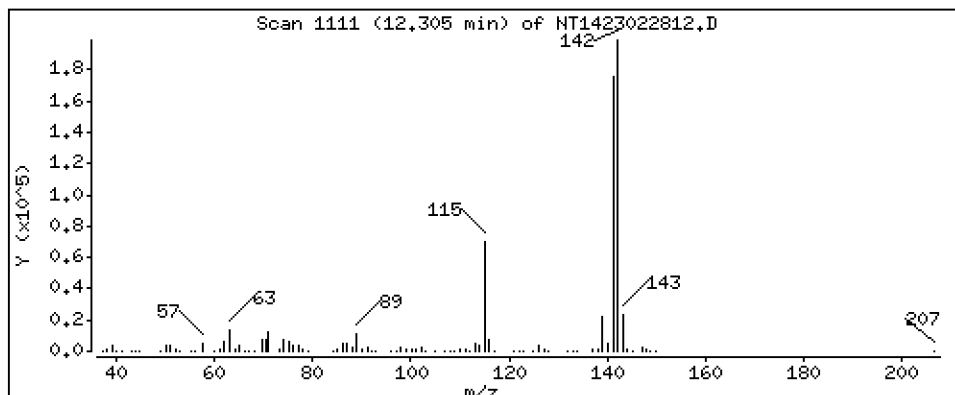
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 4.871 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

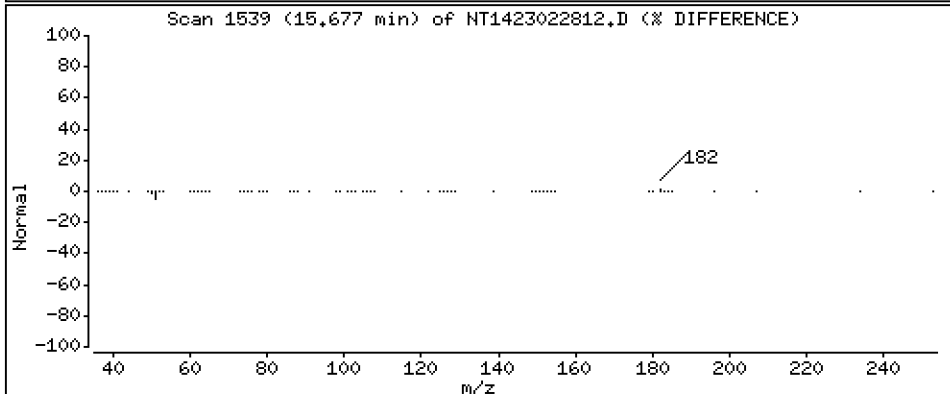
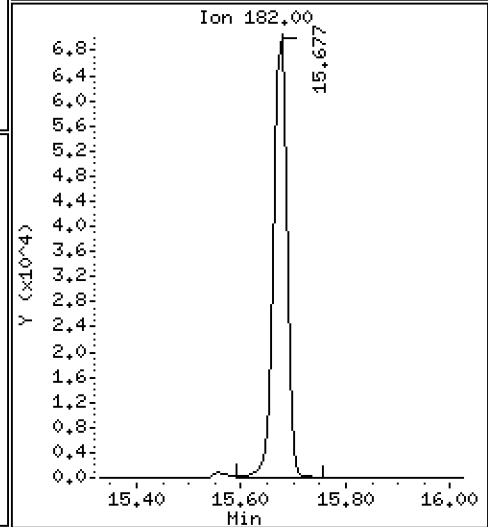
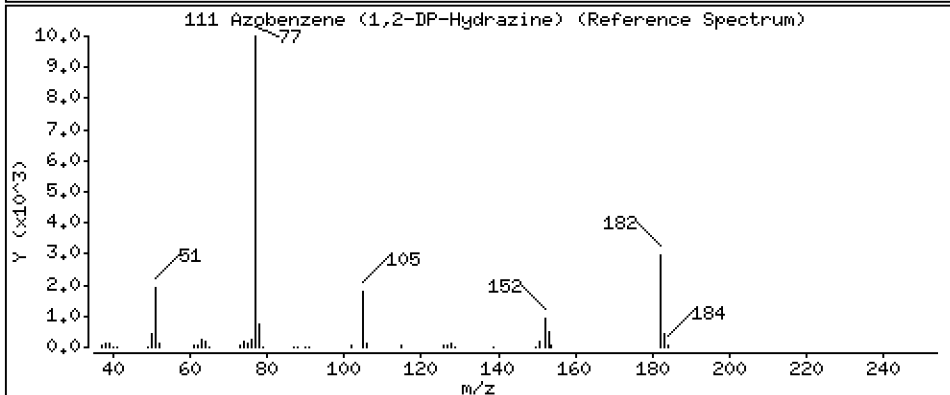
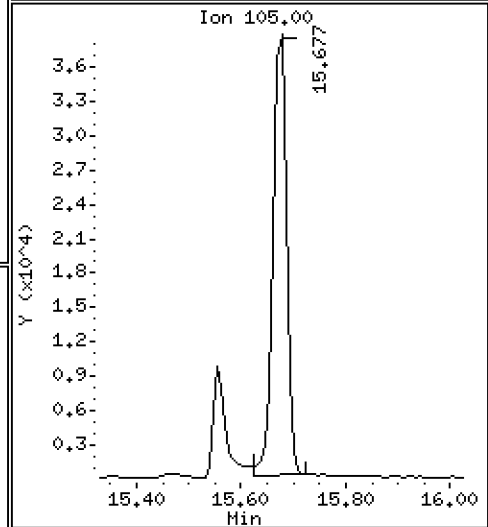
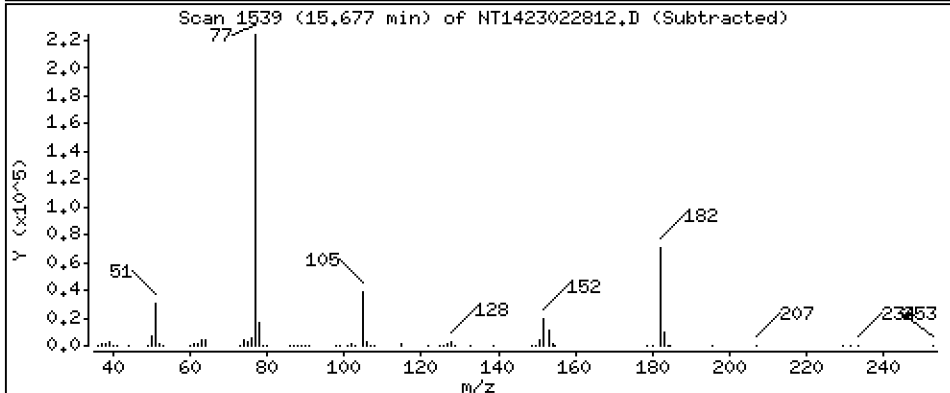
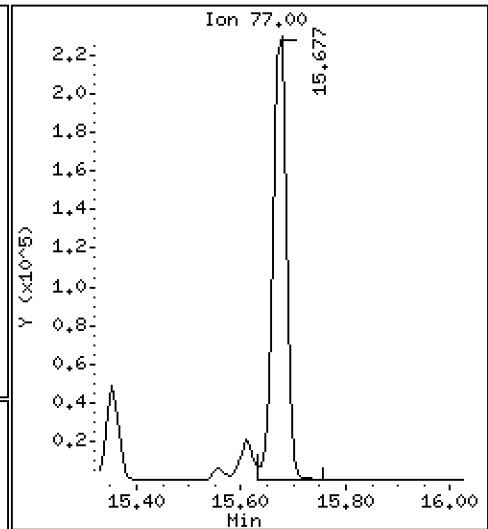
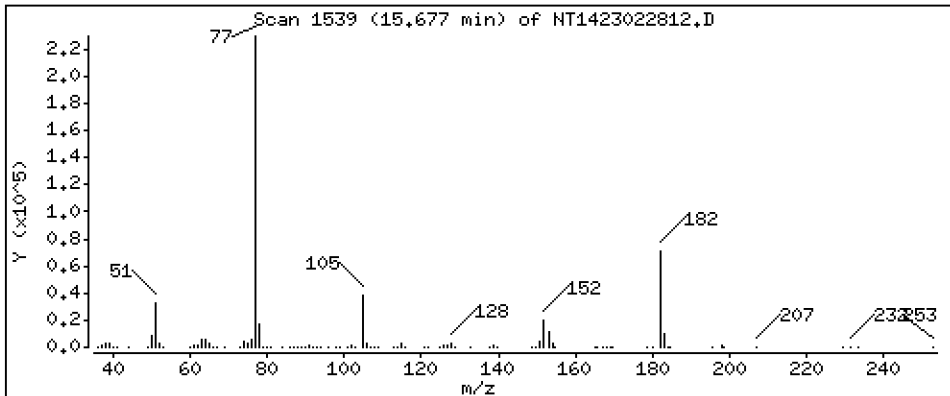
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 5,020 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

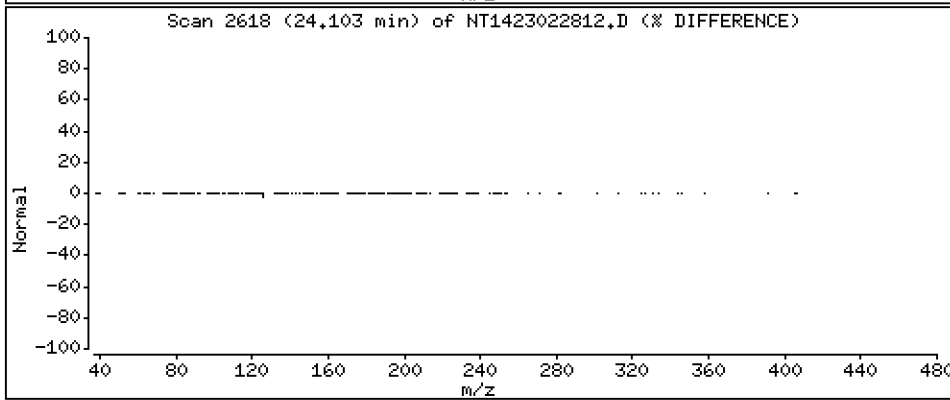
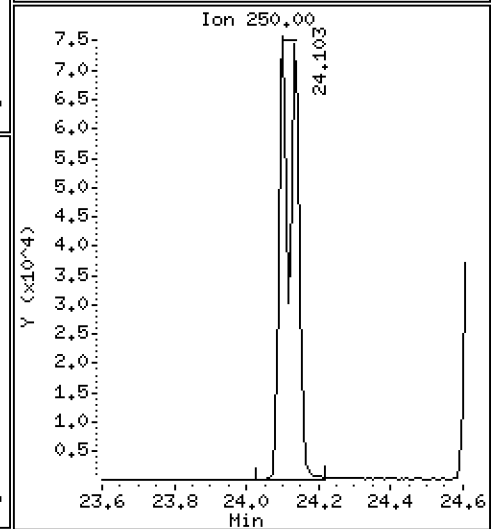
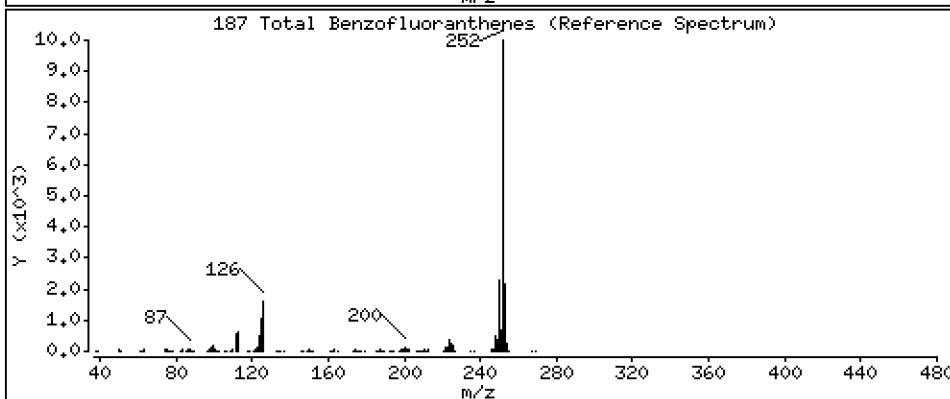
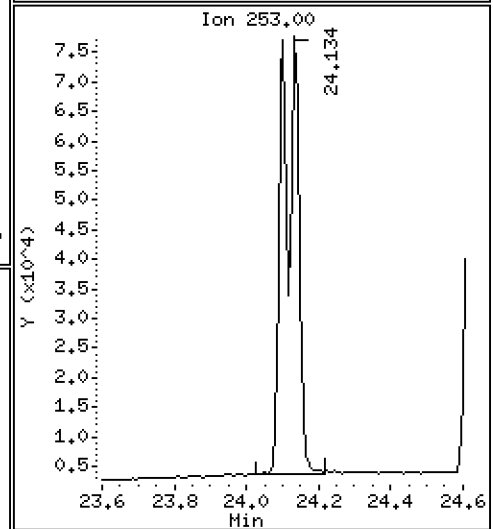
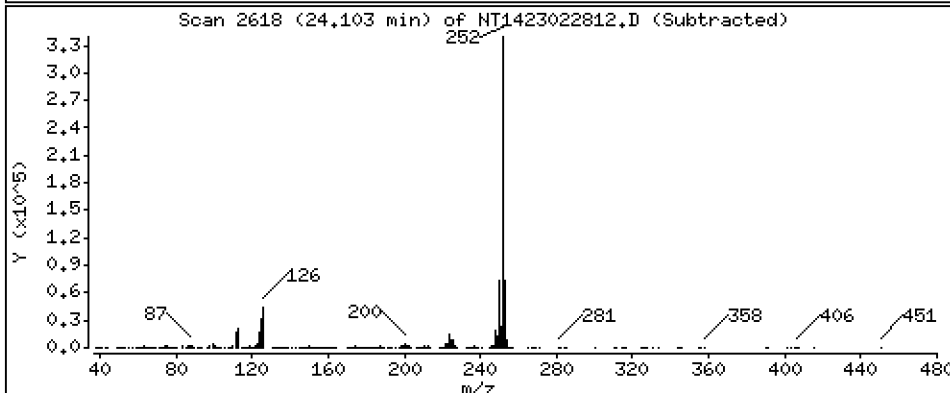
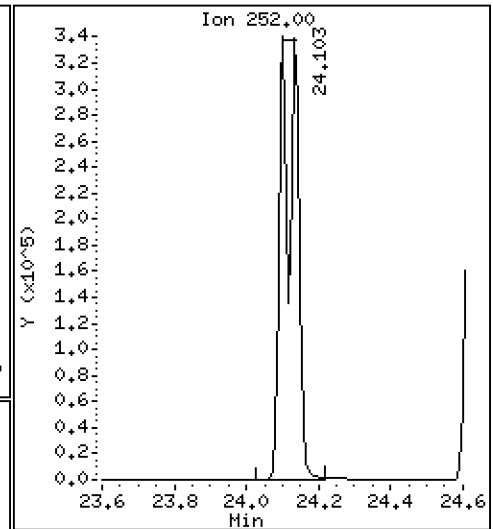
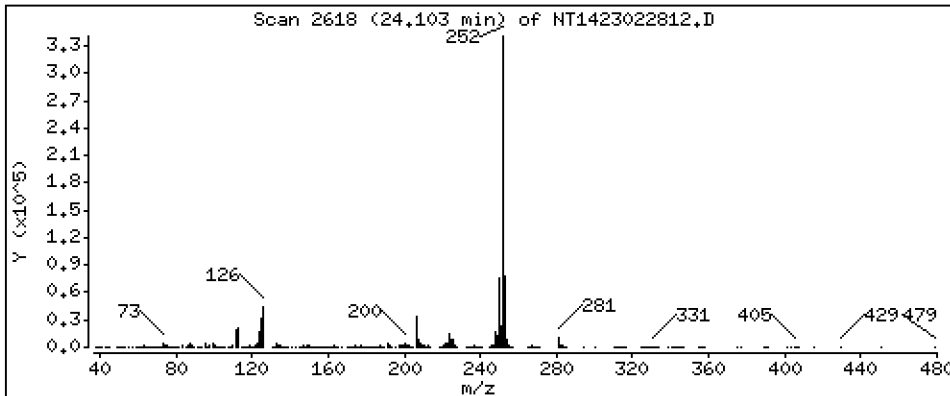
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,562 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

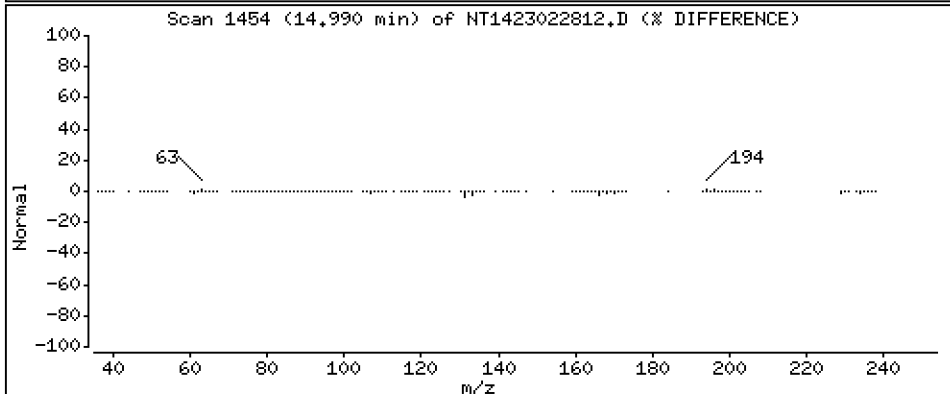
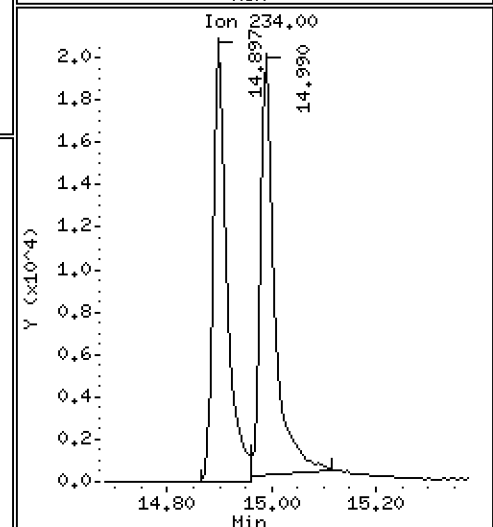
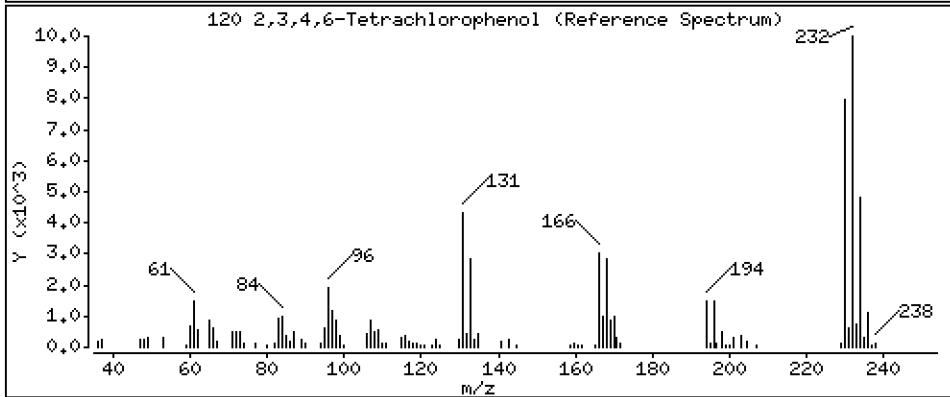
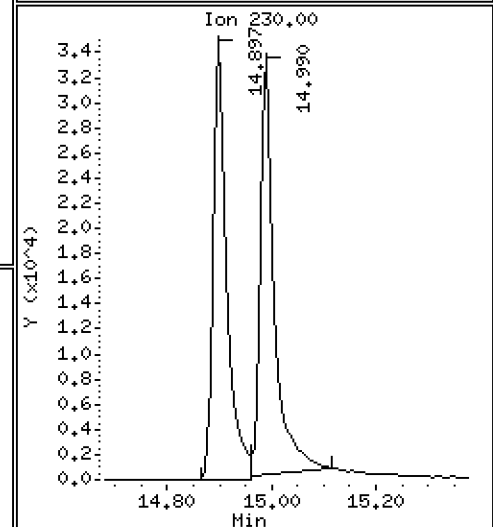
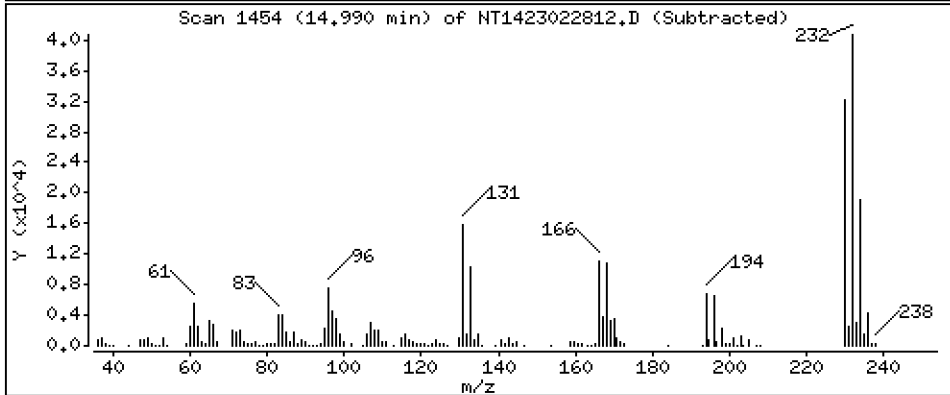
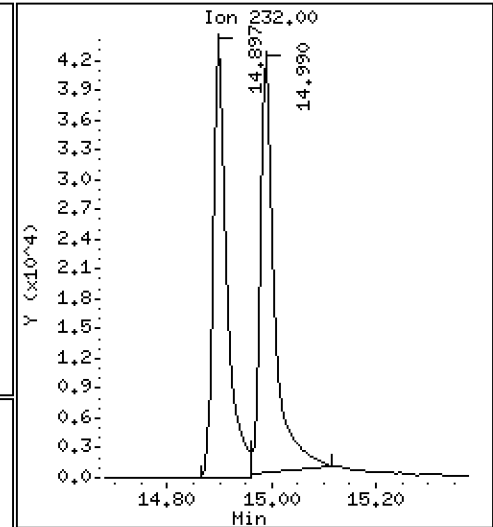
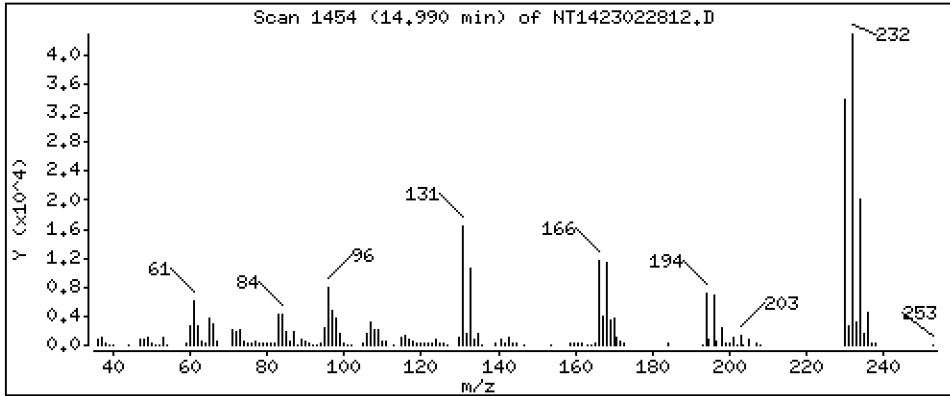
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,467 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022812.D  
 Lab Smp Id: SLB0374-SCV1  
 Inj Date : 28-FEB-2023 17:41 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-SCV1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 12  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE               | CONCENTRATIONS |           |
|---------------------------------|-------|-----|--------|--------|---------|------------------------|----------------|-----------|
|                                 |       |     |        |        |         |                        | ON-COLUMN      | FINAL     |
|                                 | MASS  |     |        |        |         |                        | (ug/mL)        | (ug/mL)   |
| =====                           | ====  |     | ====   | =====  | =====   | =====                  | =====          | =====     |
| \$ 1 2-Fluorophenol             | 112   |     |        |        |         | Compound Not Detected. |                |           |
| \$ 2 Phenol-d5                  | 99    |     |        |        |         | Compound Not Detected. |                |           |
| 3 Phenol                        | 94    |     | 7.657  | 7.681  | (0.933) | 190853                 | 3.93481        | 3.935     |
| \$ 5 2-Chlorophenol-d4          | 132   |     |        |        |         | Compound Not Detected. |                |           |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.789  | 7.805  | (0.949) | 172225                 | 5.22436        | 5.224     |
| 6 2-Chlorophenol                | 128   |     | 7.889  | 7.905  | (0.961) | 165501                 | 4.63235        | 4.632     |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.145  | 8.153  | (0.992) | 188790                 | 4.79491        | 4.795     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.207  | 8.207  | (1.000) | 105595                 | 4.00000        |           |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.238  | 8.246  | (1.004) | 186791                 | 4.80018        | 4.800     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     |        |        |         | Compound Not Detected. |                |           |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.587  | 8.595  | (1.046) | 179357                 | 4.80679        | 4.807     |
| 11 Benzyl alcohol               | 108   |     | 8.509  | 8.688  | (1.037) | 92183                  | 4.30388        | 4.304     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.804  | 8.812  | (1.073) | 55444                  | 5.50978        | 5.510     |
| 13 2-Methylphenol               | 108   |     | 8.750  | 8.774  | (1.066) | 135033                 | 4.40682        | 4.407     |
| 17 Hexachloroethane             | 117   |     | 9.161  | 9.162  | (1.116) | 74373                  | 5.08929        | 5.089     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.060  | 9.076  | (1.104) | 119882                 | 5.13841        | 5.138     |
| 15 4-Methylphenol               | 108   |     | 9.029  | 9.069  | (1.100) | 147984                 | 4.21848        | 4.218     |
| \$ 18 Nitrobenzene-d5           | 82    |     |        |        |         | Compound Not Detected. |                |           |
| 19 Nitrobenzene                 | 77    |     | 9.332  | 9.356  | (0.875) | 180410                 | 5.05930        | 5.059     |
| 20 Isophorone                   | 82    |     | 9.782  | 9.806  | (0.917) | 349645                 | 6.41026        | 6.410     |
| 21 2-Nitrophenol                | 139   |     | 9.961  | 9.992  | (0.934) | 76558                  | 4.12597        | 4.126     |
| 22 2,4-Dimethylphenol           | 107   |     | 10.054 | 10.062 | (0.943) | 126462                 | 3.89012        | 3.890     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.240 | 10.256 | (0.960) | 206654                 | 5.76434        | 5.764     |
| 24 Benzoic acid                 | 105   |     | 10.309 | 10.665 | (0.967) | 52451                  | 4.07142        | 4.071 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | 10.418 | 10.441 | (0.977) | 154075                 | 4.78253        | 4.783     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.580 | 10.588 | (0.992) | 175958                 | 4.78932        | 4.789     |
| * 27 Naphthalene-d8             | 136   |     | 10.665 | 10.665 | (1.000) | 379346                 | 4.00000        |           |
| 28 Naphthalene                  | 128   |     | 10.703 | 10.704 | (1.004) | 482268                 | 4.76613        | 4.766     |
| 29 4-Chloroaniline              | 127   |     | 10.858 | 10.889 | (1.018) | 168576                 | 3.89508        | 3.895     |
| 30 Hexachlorobutadiene          | 225   |     | 11.074 | 11.082 | (1.038) | 107684                 | 4.80334        | 4.803     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.848 | 11.872 | (1.111) | 142216                 | 4.86015        | 4.860     |
| 32 2-Methylnaphthalene          | 142   |     | 12.088 | 12.096 | (1.133) | 346575                 | 4.62518        | 4.625     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.560 | 12.560 | (0.882) | 109998                 | 4.53253        | 4.533     |



| Compounds                         | QUANT | SIG |                        |        |         |        |          | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|------------------------|--------|---------|--------|----------|----------------------|------------------|
|                                   |       |     | MASS                   | RT     | EXP RT  | REL RT | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     | 12.723                 | 12.746 | (0.893) | 107803 | 4.78817  | 4.788                |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     | 12.800                 | 12.831 | (0.898) | 113667 | 4.66940  | 4.669                |                  |
| § 36 2-Fluorobiphenyl             | 172   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 37 2-Chloronaphthalene            | 162   |     | 13.071                 | 13.079 | (0.917) | 353130 | 4.91059  | 4.911                |                  |
| 38 2-Nitroaniline                 | 65    |     | 13.357                 | 13.373 | (0.938) | 93395  | 4.97969  | 4.980                |                  |
| 39 Dimethylphthalate              | 163   |     | 13.806                 | 13.814 | (0.969) | 377389 | 5.20568  | 5.206                |                  |
| 40 Acenaphthylene                 | 152   |     | 13.930                 | 13.938 | (0.978) | 524968 | 4.97505  | 4.975                |                  |
| 41 2,6-Dinitrotoluene             | 165   |     | 13.930                 | 13.938 | (0.978) | 88793  | 5.22670  | 5.227                |                  |
| * 42 Acenaphthene-d10             | 164   |     | 14.247                 | 14.247 | (1.000) | 230482 | 4.00000  |                      |                  |
| 43 3-Nitroaniline                 | 138   |     | 14.209                 | 14.232 | (0.997) | 84775  | 4.86882  | 4.869                |                  |
| 44 Acenaphthene                   | 153   |     | 14.309                 | 14.309 | (1.004) | 322046 | 4.76684  | 4.767                |                  |
| 45 2,4-Dinitrophenol              | 184   |     | 14.433                 | 14.425 | (1.013) | 10550  | 0.98072  | 0.9807               |                  |
| 46 Dibenzofuran                   | 168   |     | 14.634                 | 14.642 | (1.027) | 507169 | 4.71794  | 4.718                |                  |
| 47 4-Nitrophenol                  | 109   |     | 14.572                 | 14.580 | (1.023) | 34204  | 3.93377  | 3.934                |                  |
| 48 2,4-Dinitrotoluene             | 165   |     | 14.726                 | 14.734 | (1.034) | 120852 | 4.94149  | 4.941                |                  |
| 50 Diethylphthalate               | 149   |     | 15.252                 | 15.260 | (1.071) | 367448 | 5.42014  | 5.420                |                  |
| 49 Fluorene                       | 166   |     | 15.337                 | 15.345 | (1.077) | 434135 | 4.79317  | 4.793                |                  |
| 51 4-Chlorophenyl-phenylether     | 204   |     | 15.353                 | 15.361 | (1.078) | 235392 | 4.88448  | 4.884                |                  |
| 52 4-Nitroaniline                 | 138   |     | 15.461                 | 15.492 | (1.085) | 78705  | 4.55998  | 4.560                |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     | 15.554                 | 15.608 | (0.902) | 49314  | 3.23357  | 3.234                |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     | 15.607                 | 15.616 | (0.905) | 286663 | 4.97950  | 4.980                |                  |
| § 55 2,4,6-Tribromophenol         | 330   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 56 4-Bromophenyl-phenylether      | 248   |     | 16.348                 | 16.348 | (0.948) | 130387 | 5.15173  | 5.152                |                  |
| 57 Hexachlorobenzene              | 284   |     | 16.634                 | 16.634 | (0.965) | 133283 | 4.78977  | 4.790                |                  |
| 58 Pentachlorophenol              | 266   |     | 17.013                 | 17.021 | (0.987) | 46829  | 3.52378  | 3.524 (M)            |                  |
| * 59 Phenanthrene-d10             | 188   |     | 17.245                 | 17.245 | (1.000) | 458109 | 4.00000  |                      |                  |
| 60 Phenanthrene                   | 178   |     | 17.291                 | 17.300 | (1.003) | 562433 | 4.61514  | 4.615                |                  |
| 61 Anthracene                     | 178   |     | 17.384                 | 17.392 | (1.008) | 486699 | 4.22447  | 4.224                |                  |
| 62 Carbazole                      | 167   |     | 17.732                 | 17.748 | (1.028) | 482242 | 4.77590  | 4.776                |                  |
| 63 Di-n-butylphthalate            | 149   |     | 18.599                 | 18.599 | (1.079) | 617439 | 4.81920  | 4.819                |                  |
| 64 Fluoranthene                   | 202   |     | 19.713                 | 19.721 | (0.881) | 680212 | 5.10377  | 5.104                |                  |
| 65 Pyrene                         | 202   |     | 20.139                 | 20.147 | (0.900) | 696600 | 4.95743  | 4.957                |                  |
| § 66 Terphenyl-d14                | 244   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 67 Butylbenzylphthalate           | 149   |     | 21.439                 | 21.447 | (0.958) | 242201 | 4.96478  | 4.965                |                  |
| 68 Benzo(a)anthracene             | 228   |     | 22.338                 | 22.338 | (0.999) | 578542 | 4.91658  | 4.917                |                  |
| * 69 Chrysene-d12                 | 240   |     | 22.368                 | 22.361 | (1.000) | 351284 | 4.00000  |                      |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     | 22.322                 | 22.330 | (0.998) | 345809 | 10.2906  | 10.29                |                  |
| 71 Chrysene                       | 228   |     | 22.407                 | 22.415 | (1.002) | 515316 | 4.55608  | 4.556                |                  |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 22.500                 | 22.500 | (0.958) | 338426 | 5.27680  | 5.277                |                  |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 23.476                 | 23.476 | (1.000) | 422614 | 4.00000  |                      |                  |
| 73 Di-n-octylphthalate            | 149   |     | 23.483                 | 23.484 | (1.000) | 576704 | 5.18281  | 5.183                |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 24.103                 | 24.103 | (0.975) | 541825 | 4.87157  | 4.872                |                  |
| 75 Benzo(k)fluoranthene           | 252   |     | 24.134                 | 24.134 | (0.977) | 559543 | 4.66326  | 4.663                |                  |
| 76 Benzo(a)pyrene                 | 252   |     | 24.614                 | 24.622 | (0.996) | 466252 | 4.88626  | 4.886                |                  |
| * 77 Perylene-d12                 | 264   |     | 24.714                 | 24.715 | (1.000) | 336637 | 4.00000  |                      |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 26.785                 | 26.793 | (1.084) | 587567 | 4.89167  | 4.892                |                  |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 26.800                 | 26.800 | (1.084) | 500585 | 4.90681  | 4.907                |                  |
| 80 Benzo(g,h,i)perylene           | 276   |     | 27.383                 | 27.391 | (1.108) | 508988 | 4.85849  | 4.858                |                  |
| 90 N-Nitrosodimethylamine         | 74    |     | 3.988                  | 4.104  | (0.486) | 94230  | 4.50713  | 4.507                |                  |
| 91 Aniline                        | 93    |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 93 Benzidine                      | 184   |     | 19.999                 | 20.015 | (0.894) | 253209 | 4.50911  | 4.509                |                  |
| 103 Pyridine                      | 79    |     | 4.004                  | 4.027  | (0.488) | 137878 | 2.19631  | 2.196                |                  |
| 105 1-methylnaphthalene           | 142   |     | 12.305                 | 12.313 | (1.154) | 335999 | 4.87061  | 4.871                |                  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     | 15.677                 | 15.677 | (1.100) | 390699 | 5.02002  | 5.020                |                  |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 24.103 | 24.103 | (0.975) | 1040320  | 9.56184              | 9.562            |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 14.989 | 15.029 | (1.052) | 91471    | 3.46740              | 3.467            |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023  
 Lab File ID: NT1423022812.D Calibration Time: 12:51  
 Lab Smp Id: SLB0374-SCV1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 114351   | 57176      | 228702  | 105595 | -7.66  |
| 27 Naphthalene-d8     | 408655   | 204328     | 817310  | 379346 | -7.17  |
| 42 Acenaphthene-d10   | 254000   | 127000     | 508000  | 230482 | -9.26  |
| 59 Phenanthrene-d10   | 490626   | 245313     | 981252  | 458109 | -6.63  |
| 69 Chrysene-d12       | 390400   | 195200     | 780800  | 351284 | -10.02 |
| 134 Di-n-octylphthala | 500829   | 250415     | 1001658 | 422614 | -15.62 |
| 77 Perylene-d12       | 375675   | 187838     | 751350  | 336637 | -10.39 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.21   | -0.09 |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.67  | 0.00  |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.25  | 0.00  |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.25  | -0.04 |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.37  | -0.03 |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.48  | -0.03 |
| 77 Perylene-d12       | 24.72    | 24.22    | 25.22 | 24.71  | -0.03 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022812.D

Lab ID: SLB0374-SCV1  
nt14.i, ABN.m, 28-FEB-2023 17:41

| RT     | CO-ELUTION COMPOUNDS                  |
|--------|---------------------------------------|
| 13.930 | Acenaphthylene and 2,6-Dinitrotoluene |

\*\* FIRST SURROGATE NOT FOUND. ICAL Check not performed \*\*

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND               |
|-------|---------|---------|------------------------|
| 1.037 | 1.059   | -0.0218 | Benzyl alcohol         |
| 0.967 | 0.000   | 0.9667  | Benzoic acid           |
| 1.013 | 0.000   | 1.0130  | 2,4-Dinitrophenol      |
| 1.023 | 0.000   | 1.0228  | 4-Nitrophenol          |
| 0.987 | 0.000   | 0.9865  | Pentachlorophenol      |
| 0.486 | 0.500   | -0.0141 | N-Nitrosodimethylamine |
| 0.488 | 0.000   | 0.4879  | Pyridine               |

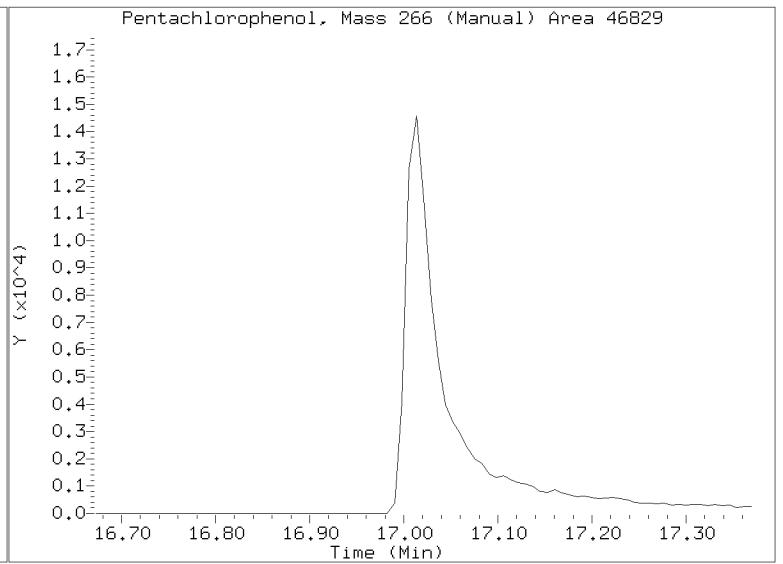
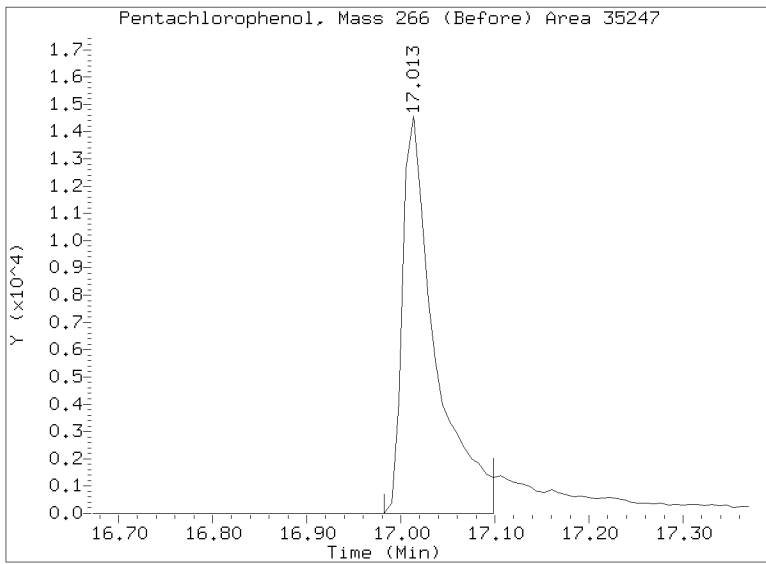
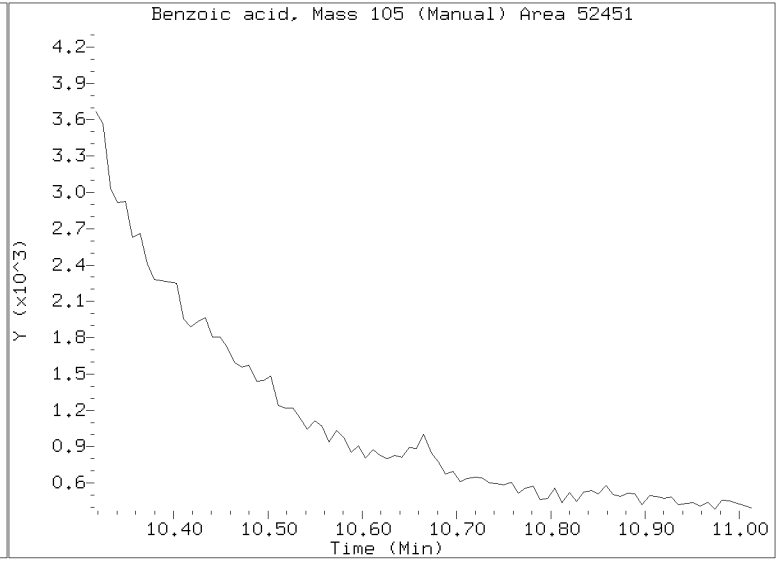
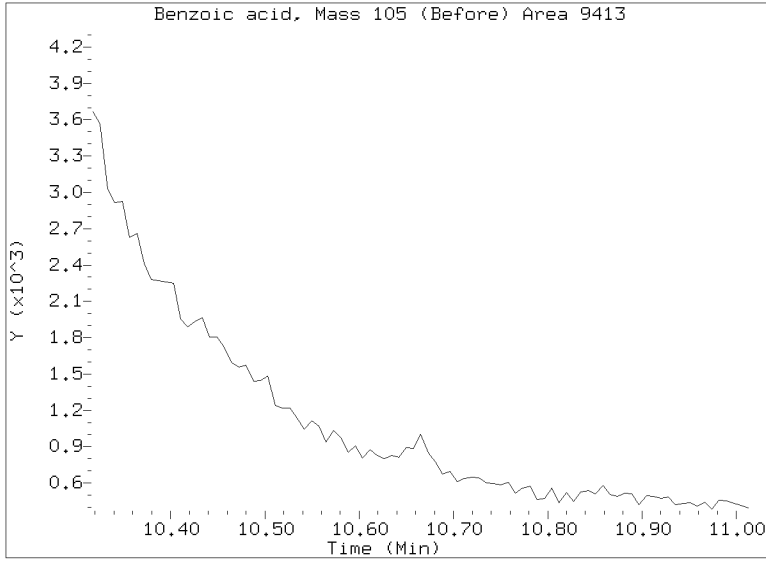
RRT check based on Ccal File: NT1423022808.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022812.D  
Injection Date: 28-FEB-2023 17:41  
Lab ID:SLB0374-SCV1 Client ID:  
Report Date: 03/10/2023 13:21





**SECOND-SOURCE  
CALIBRATION VERIFICATION**

**EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00046

**Laboratory ID:** SLC0228-SCV1

**Sequence:** SLC0228

**Standard ID:** L002833

| ANALYTE                    | EXPECTED<br>(ug/mL) | FOUND<br>(ug/mL) | % DRIFT | QC LIMIT |
|----------------------------|---------------------|------------------|---------|----------|
| Phenol                     | 5.0000              | 4.4              | -11.8   | 20.00    |
| 4-Methylphenol             | 5.0000              | 4.4              | -12.7   | 20.00    |
| Naphthalene                | 5.0000              | 4.7              | -5.7    | 20.00    |
| 2-Methylnaphthalene        | 5.0000              | 4.6              | -8.1    | 20.00    |
| Acenaphthylene             | 5.0000              | 4.8              | -3.9    | 20.00    |
| Dimethylphthalate          | 5.0000              | 4.9              | -1.3    | 20.00    |
| Acenaphthene               | 5.0000              | 4.8              | -4.5    | 20.00    |
| Dibenzofuran               | 5.0000              | 4.6              | -7.0    | 20.00    |
| Fluorene                   | 5.0000              | 4.7              | -5.8    | 20.00    |
| Phenanthrene               | 5.0000              | 4.6              | -8.0    | 20.00    |
| Anthracene                 | 5.0000              | 4.2              | -16.7   | 20.00    |
| Fluoranthene               | 5.0000              | 4.5              | -10.6   | 20.00    |
| Pyrene                     | 5.0000              | 4.3              | -13.2   | 20.00    |
| Butylbenzylphthalate       | 5.0000              | 4.8              | -3.3    | 20.00    |
| Benzo(a)anthracene         | 5.0000              | 4.6              | -7.1    | 20.00    |
| Chrysene                   | 5.0000              | 4.5              | -9.8    | 20.00    |
| bis(2-Ethylhexyl)phthalate | 5.0000              | 4.7              | -6.4    | 20.00    |
| Benzofluoranthenes, Total  | 10.000              | 9.5              | -5.2    | 20.00    |
| Benzo(a)pyrene             | 5.0000              | 4.9              | -2.5    | 20.00    |
| Indeno(1,2,3-cd)pyrene     | 5.0000              | 4.6              | -8.5    | 20.00    |
| Dibenzo(a,h)anthracene     | 5.0000              | 4.5              | -9.1    | 20.00    |
| Benzo(g,h,i)perylene       | 5.0000              | 4.6              | -8.2    | 20.00    |

\* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031511.D

Date: 16-MAR-2023 02:16

Client ID:

Sample Info: SLC0228-SCV1

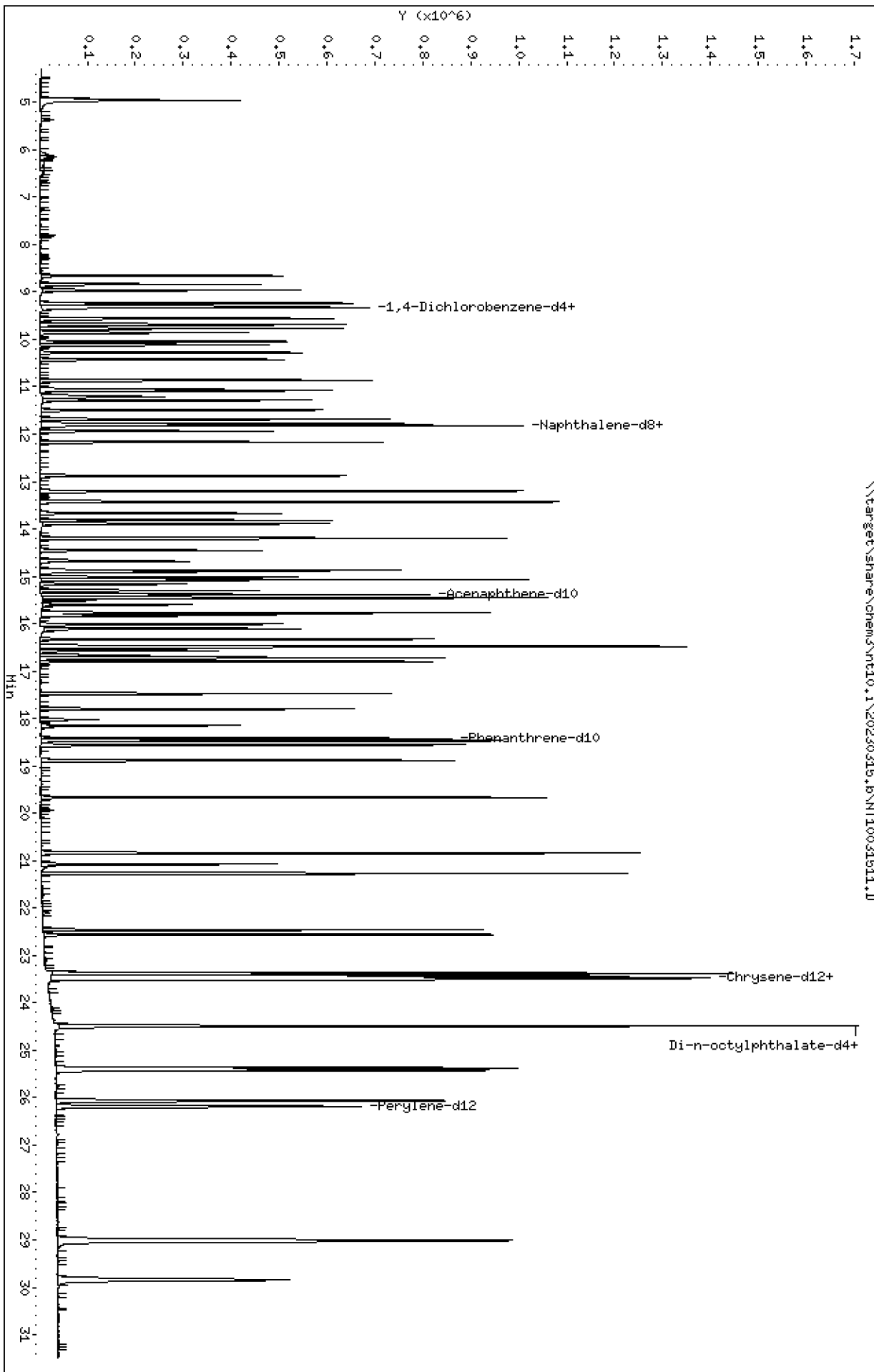
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

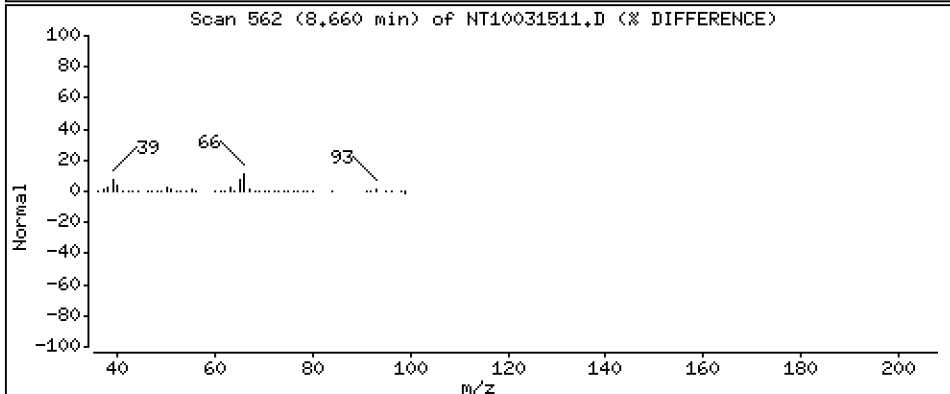
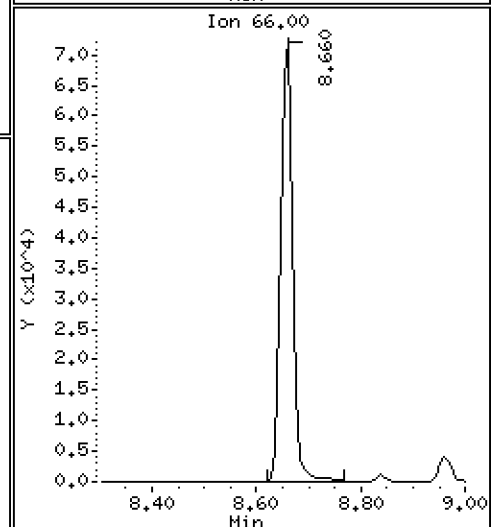
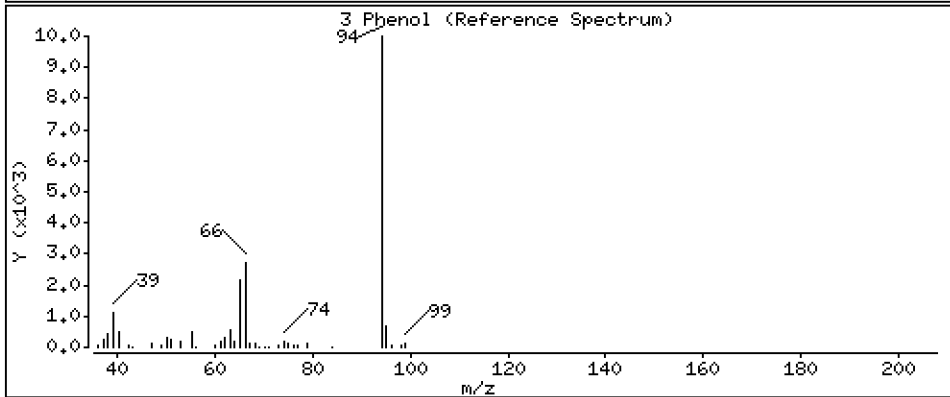
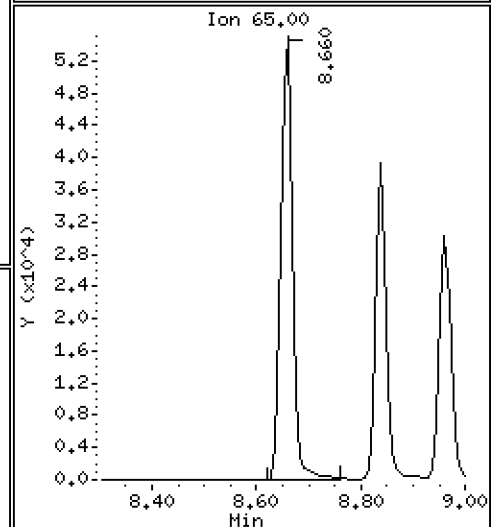
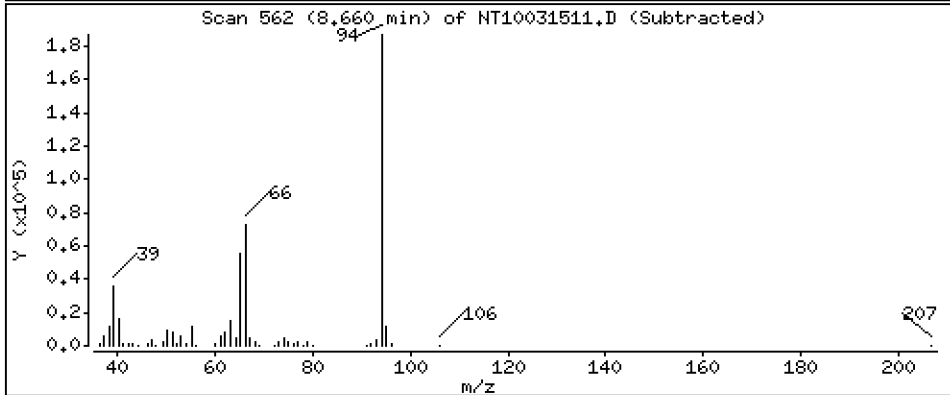
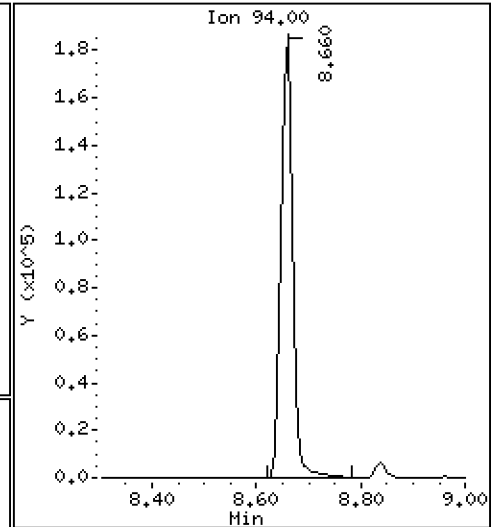
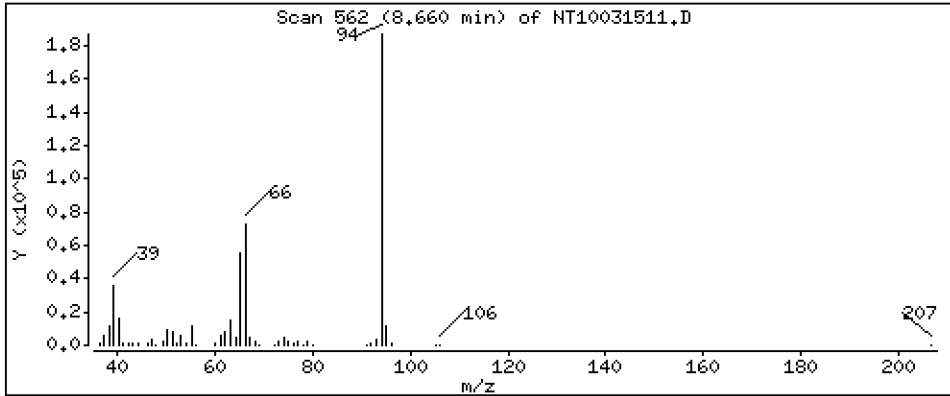
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 4,412 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

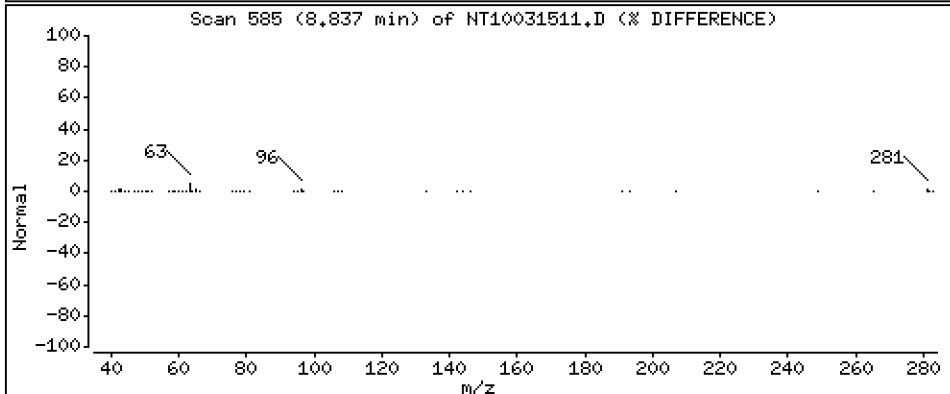
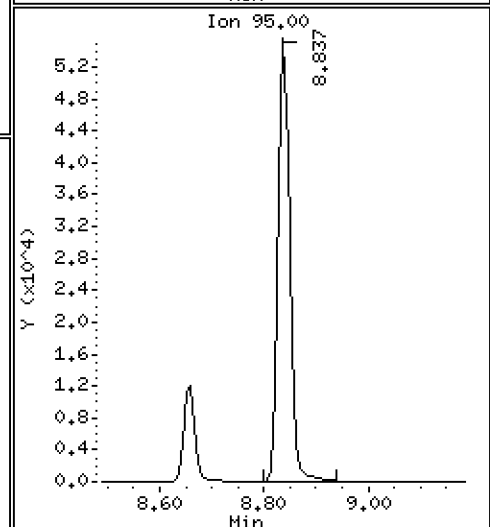
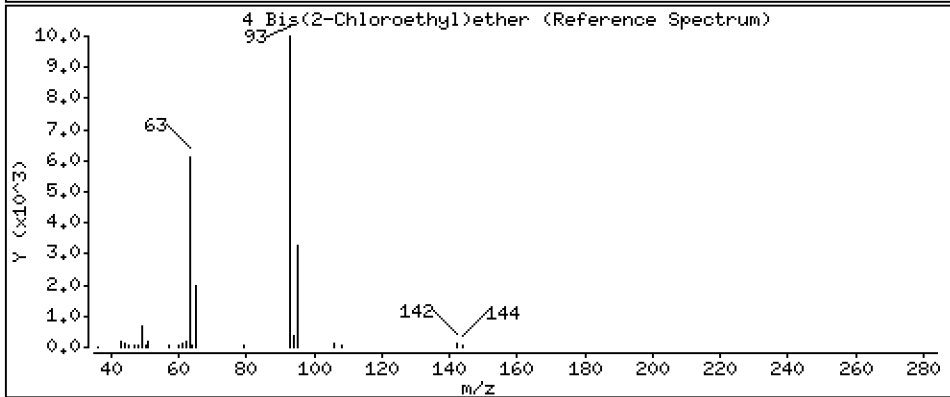
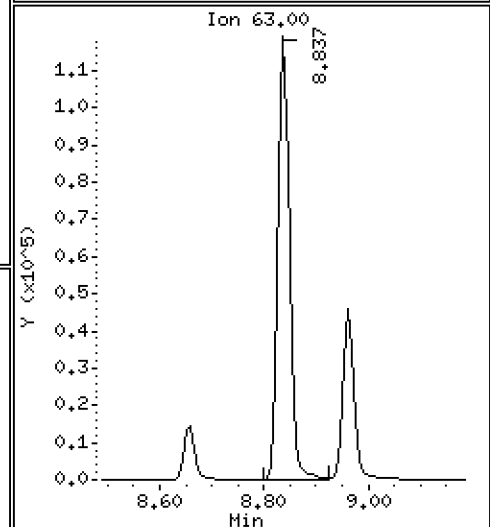
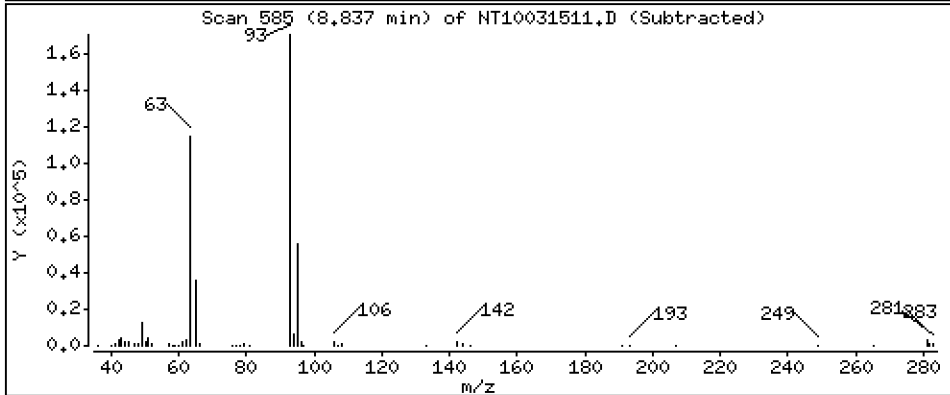
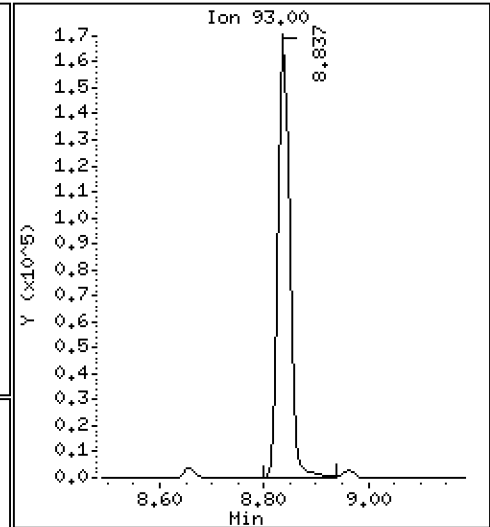
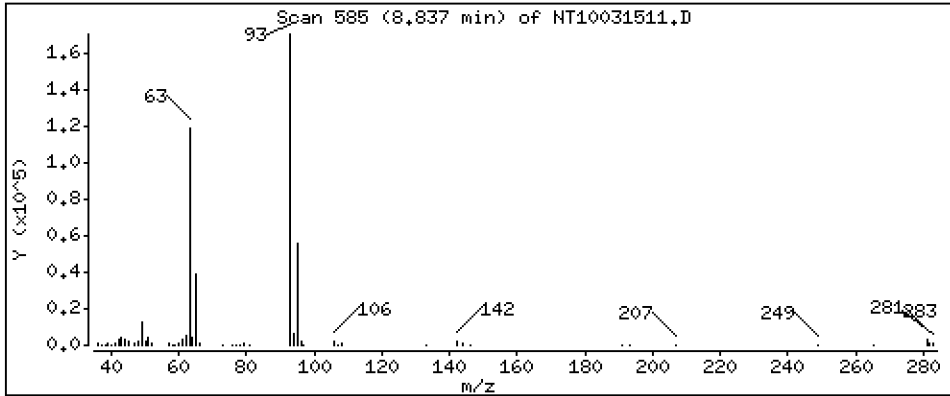
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 5,258 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

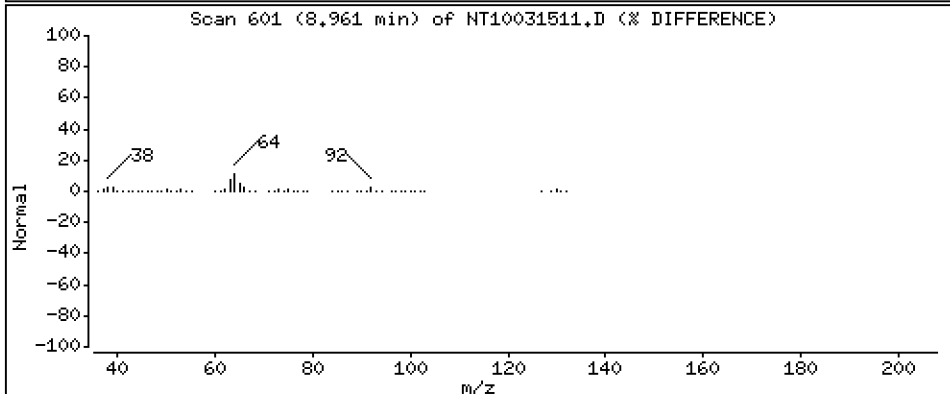
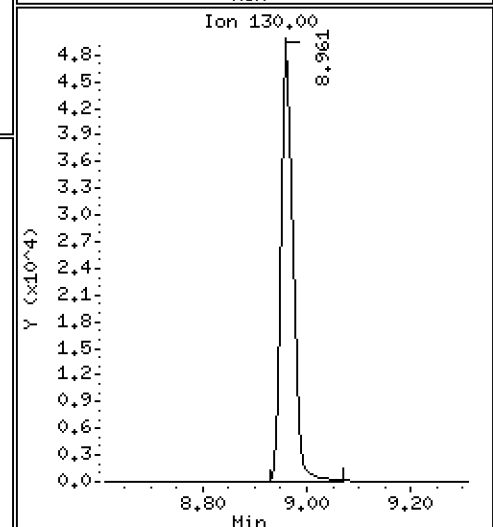
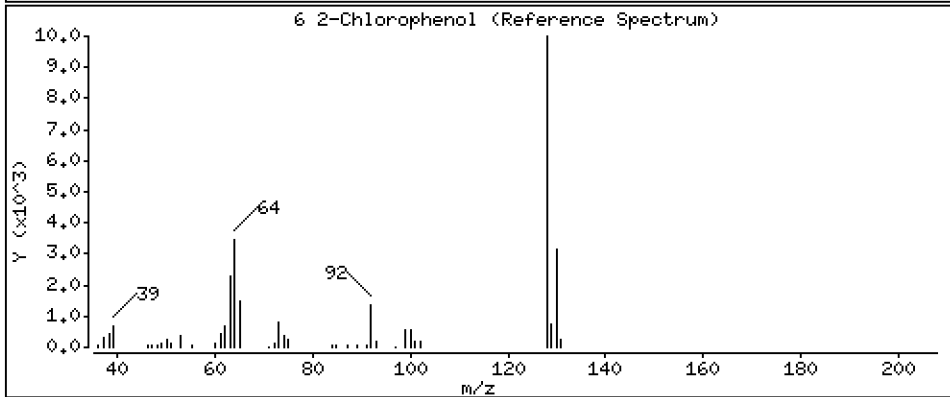
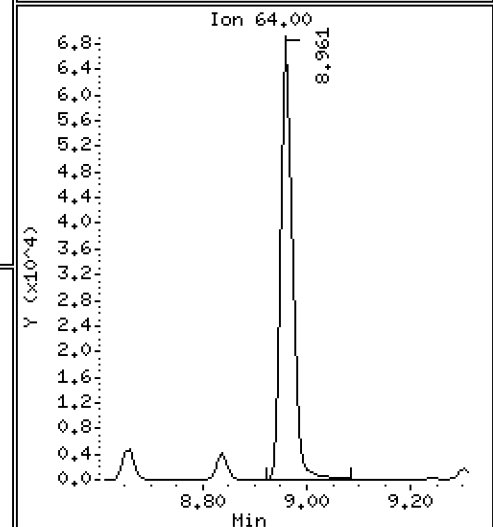
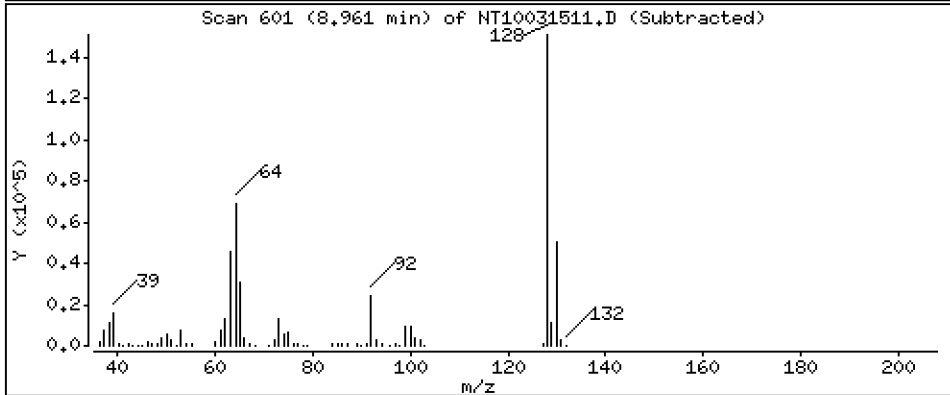
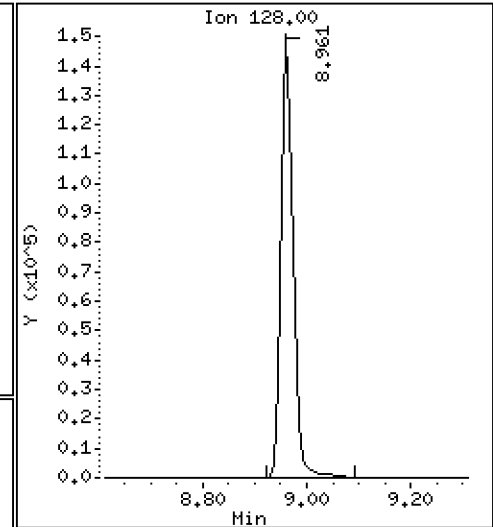
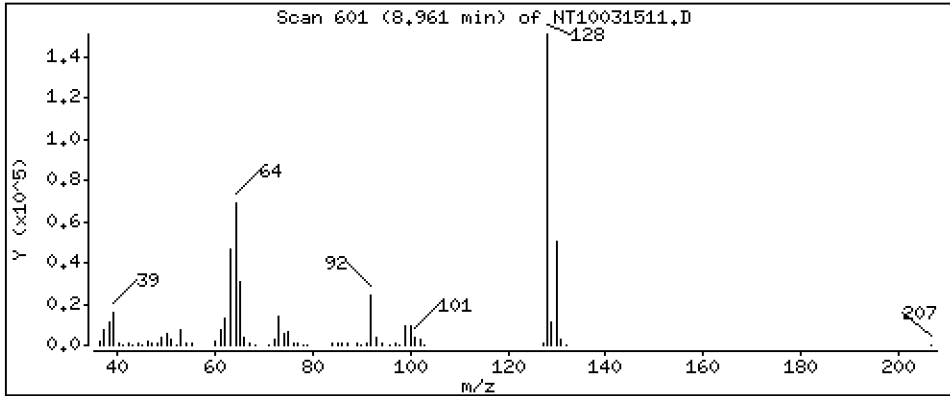
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,277 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

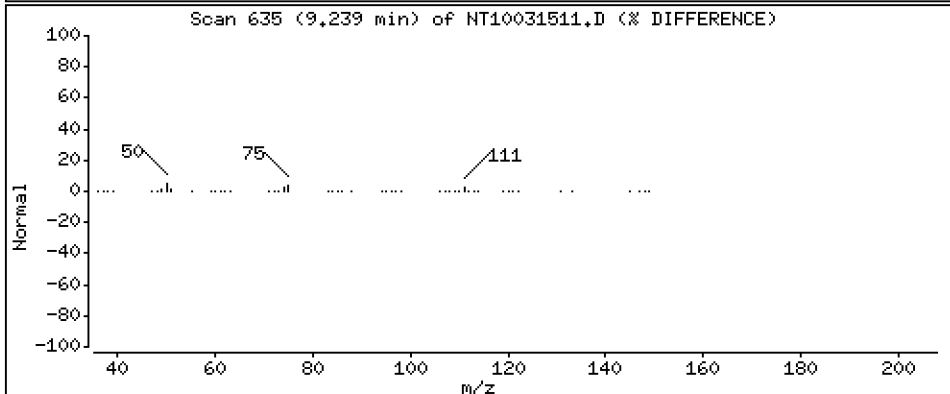
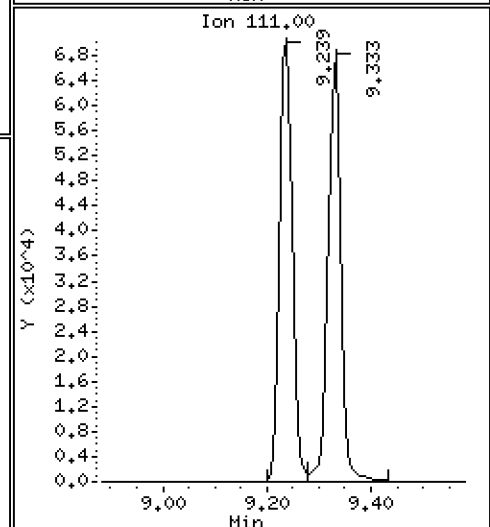
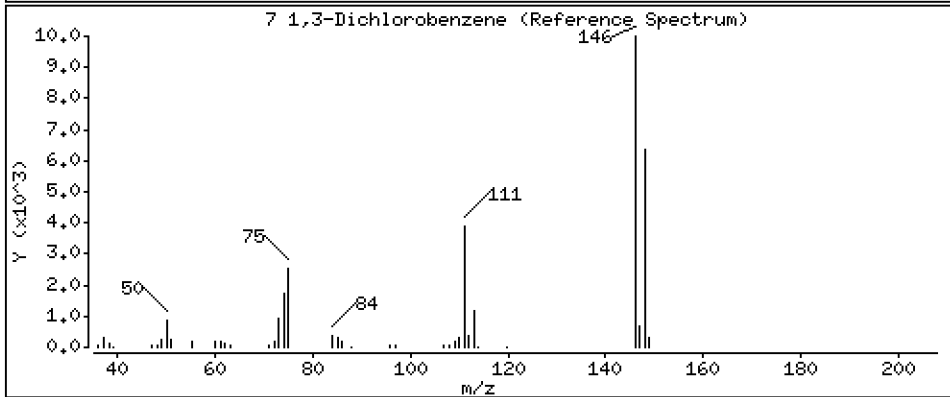
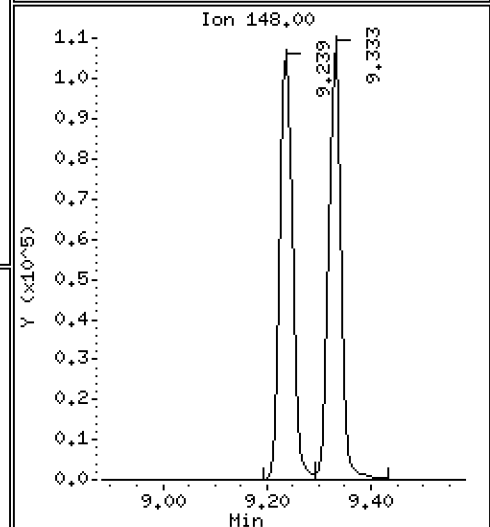
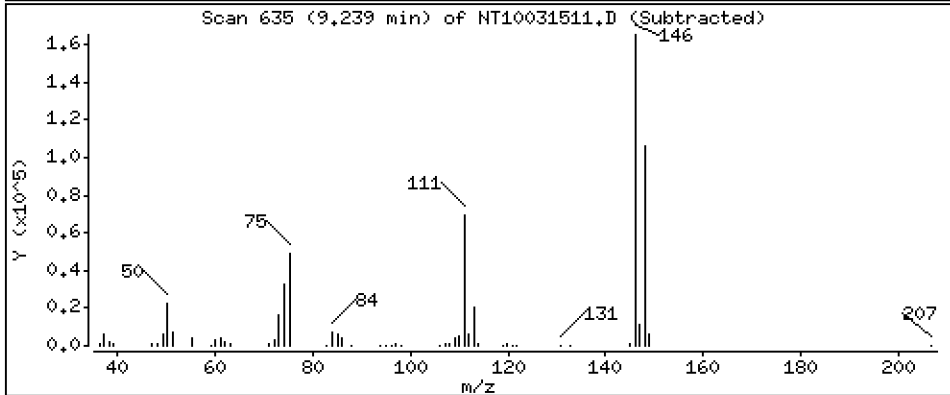
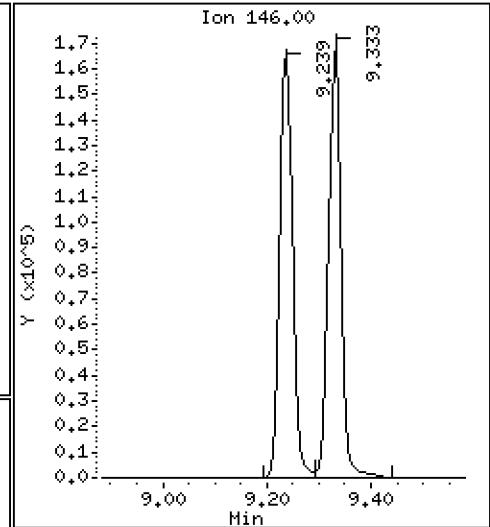
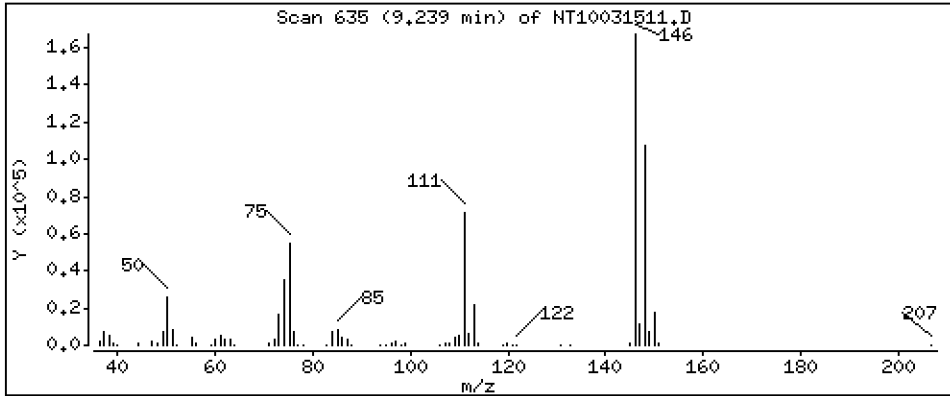
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 4.772 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

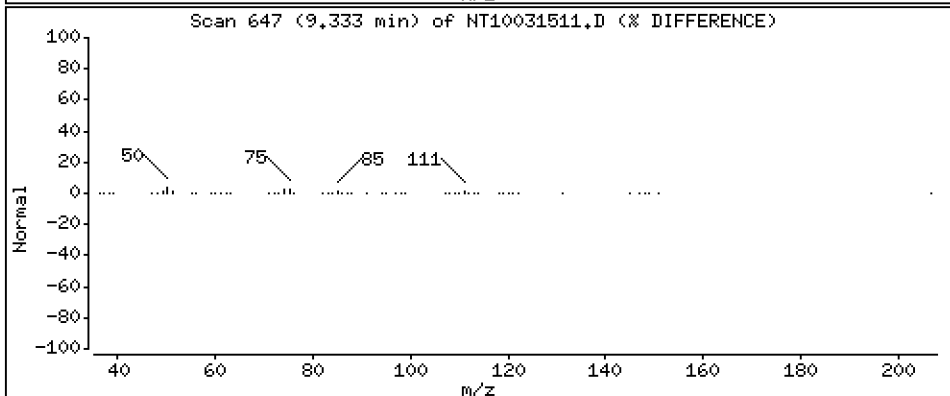
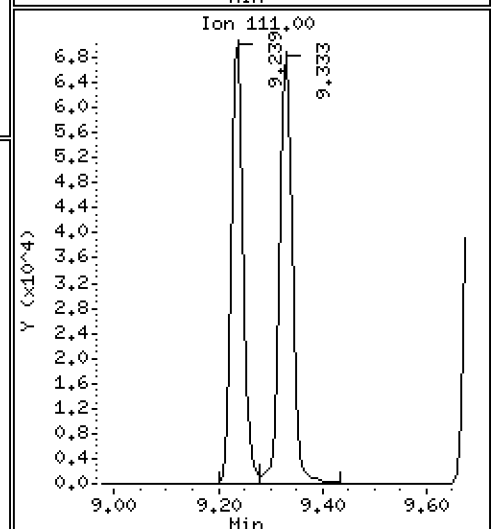
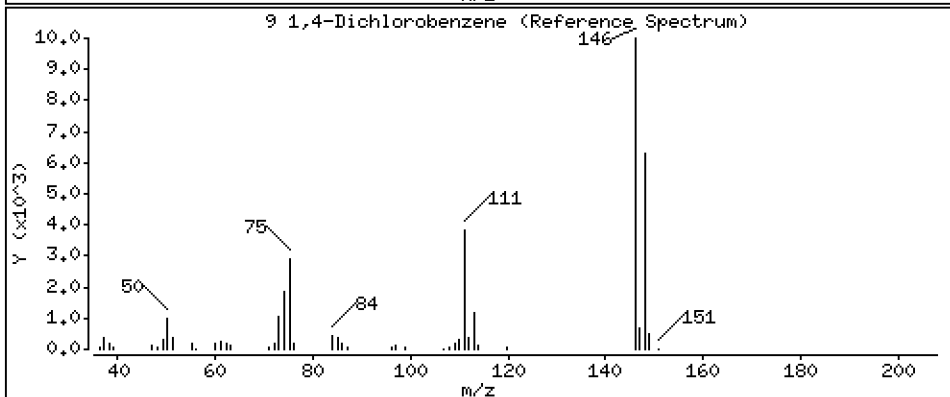
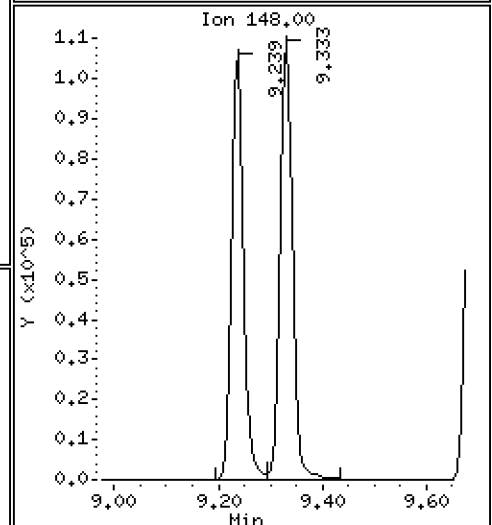
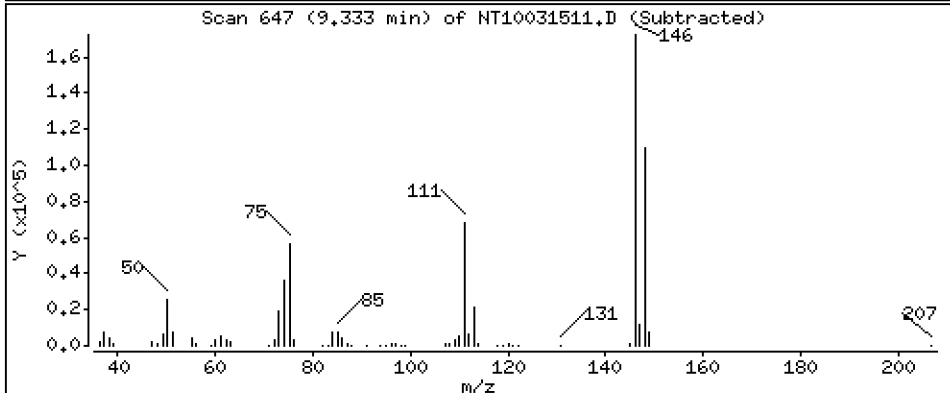
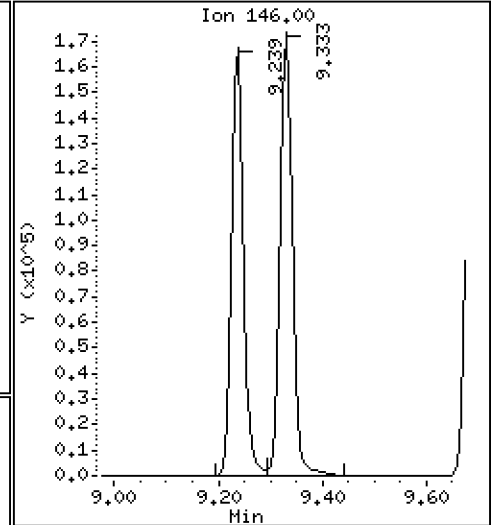
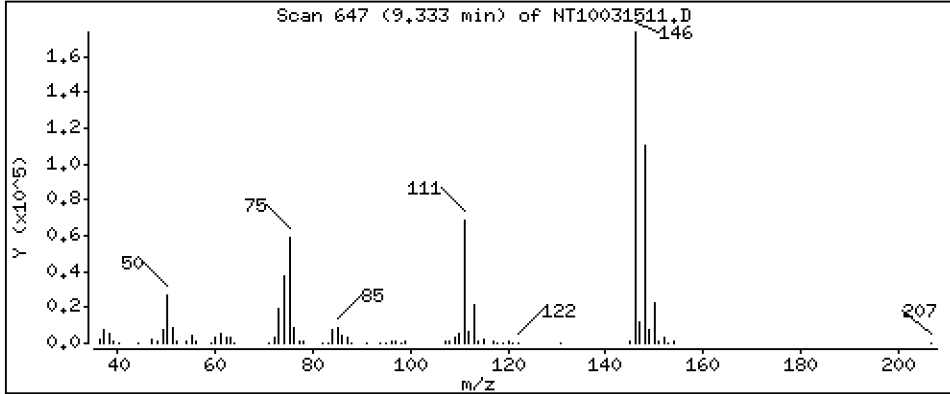
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,913 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

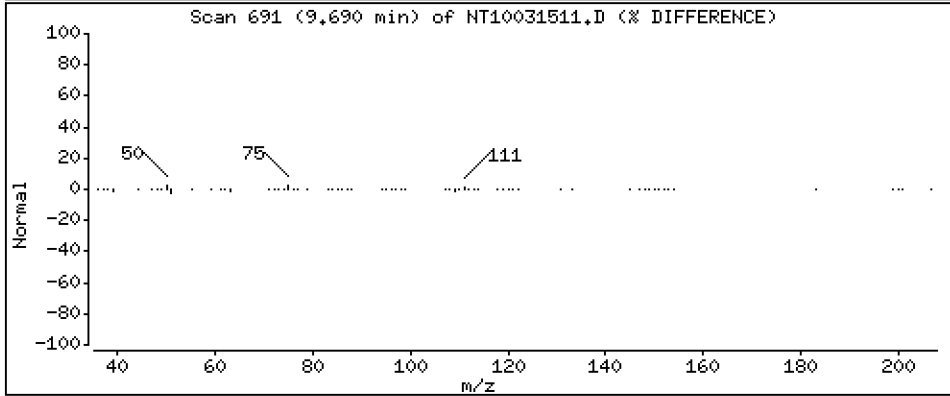
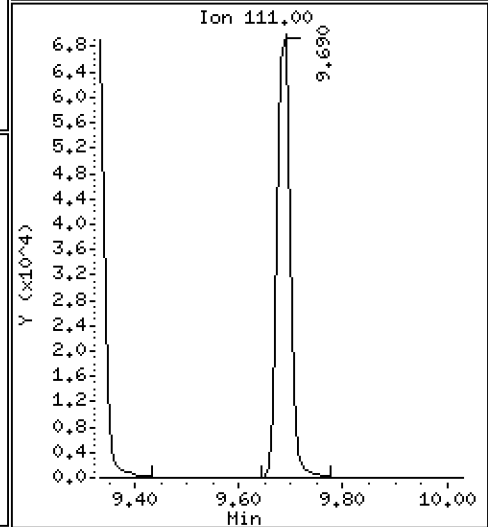
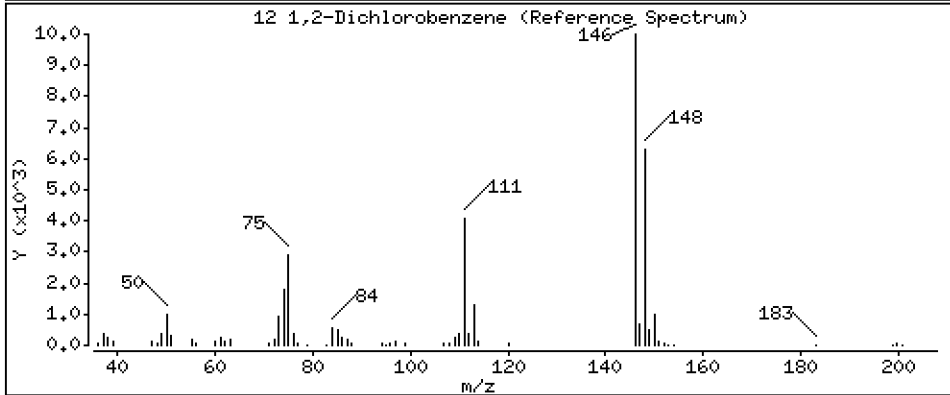
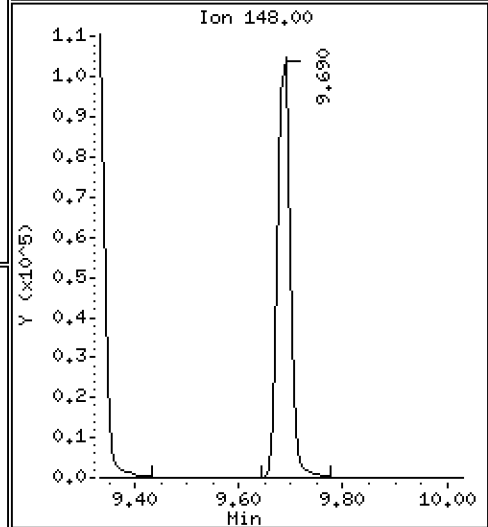
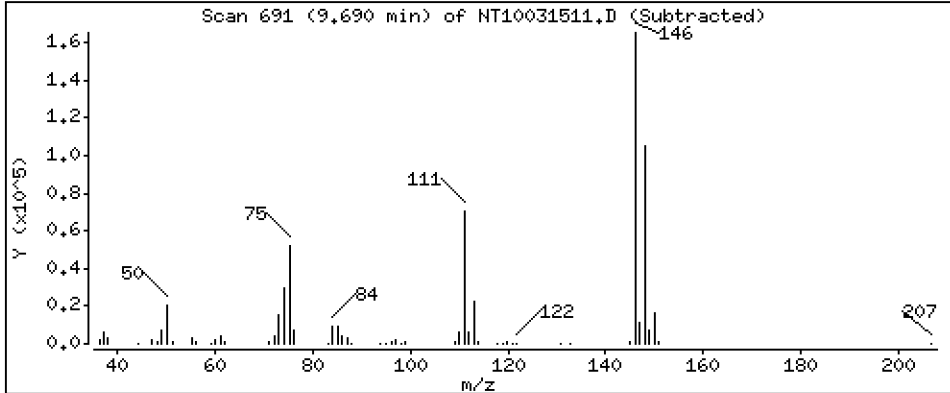
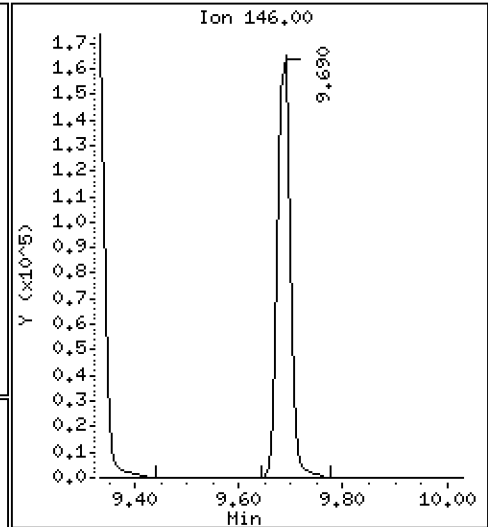
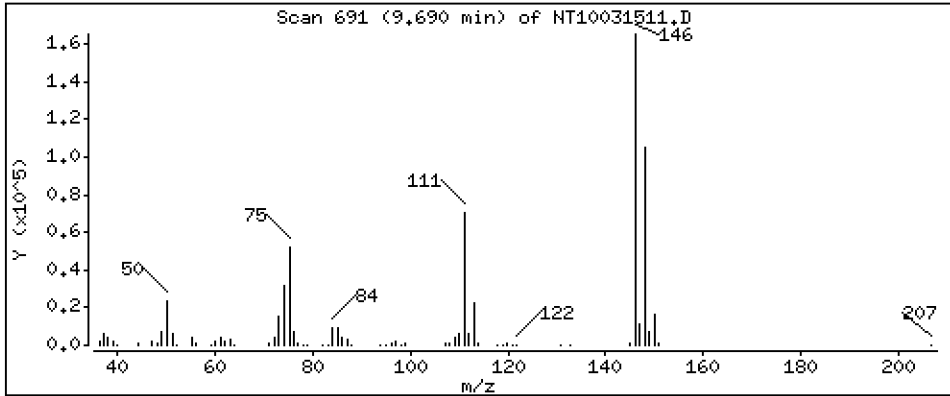
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,882 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

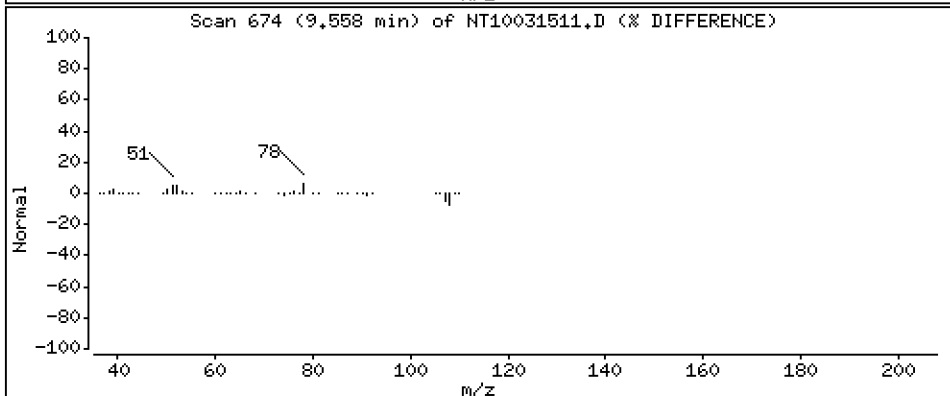
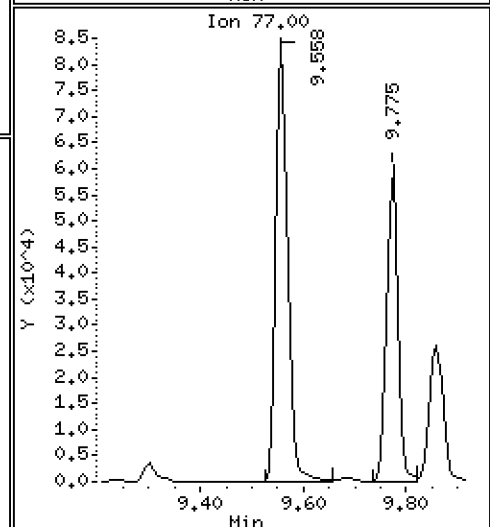
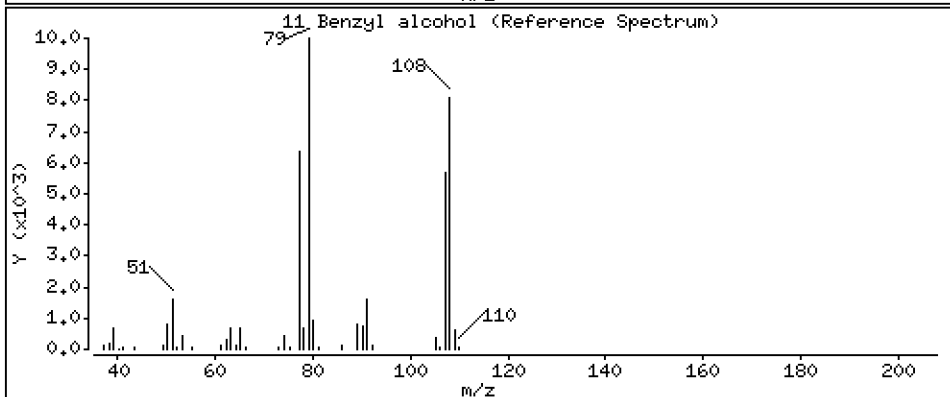
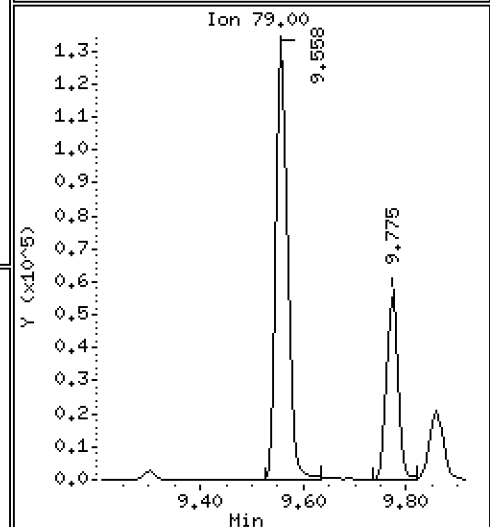
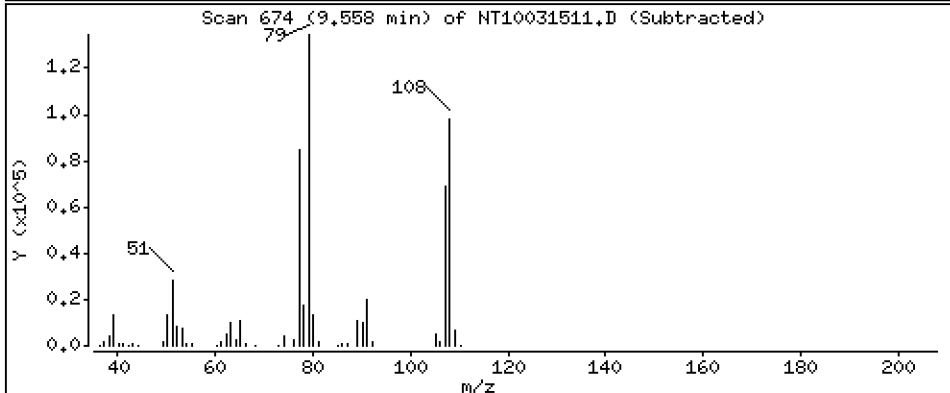
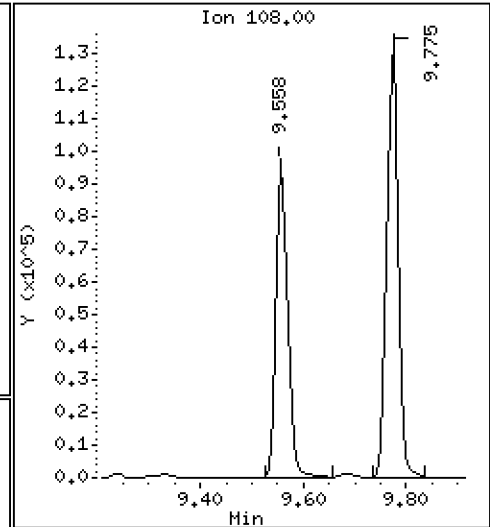
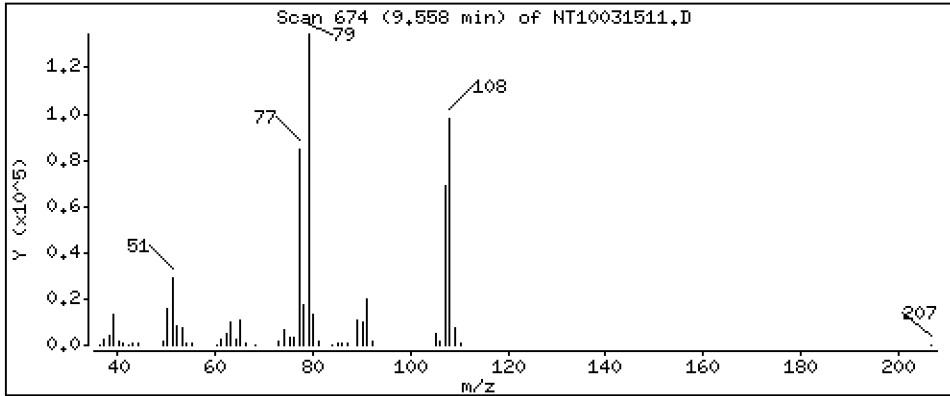
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.927 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

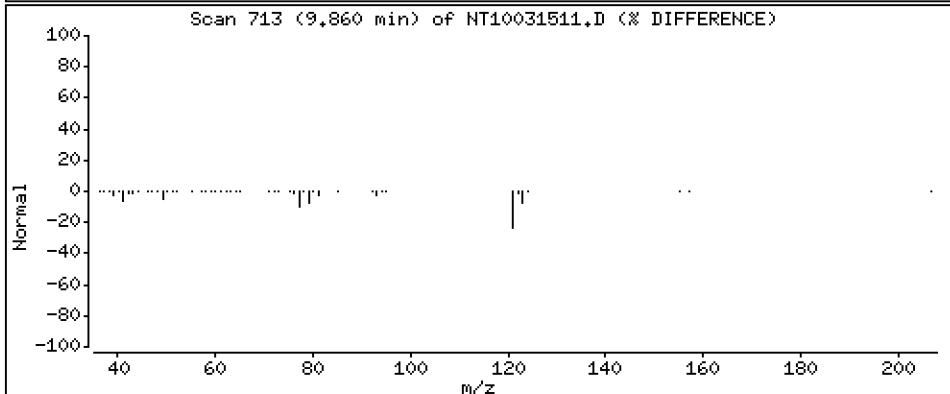
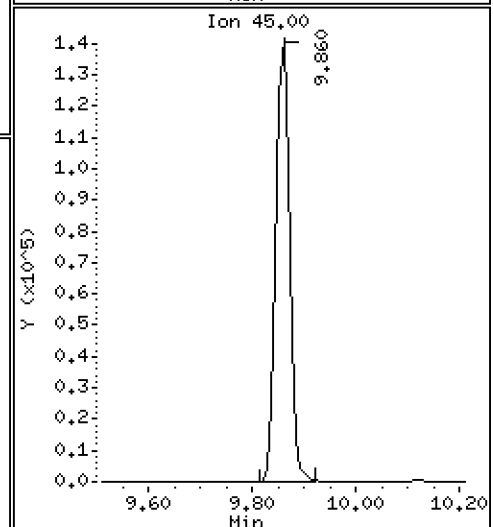
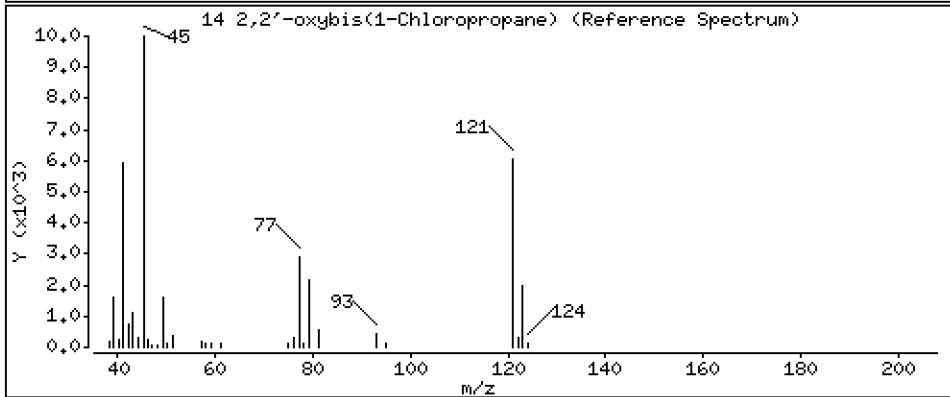
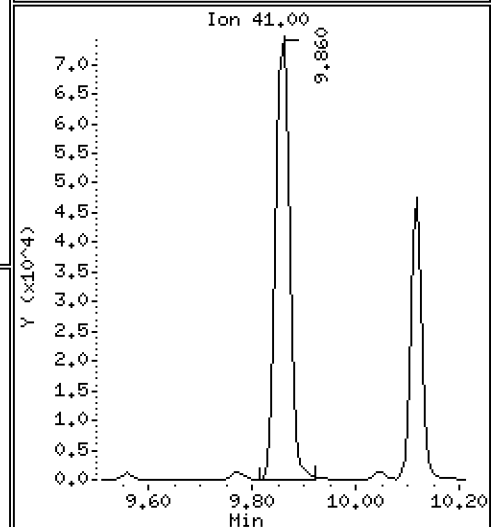
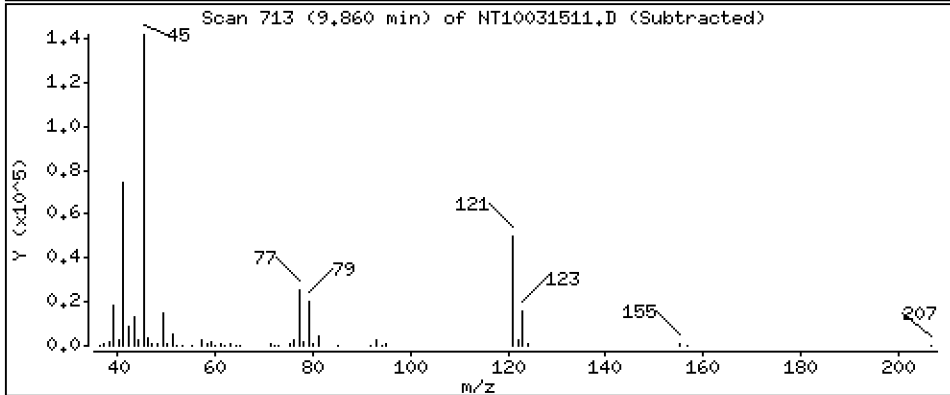
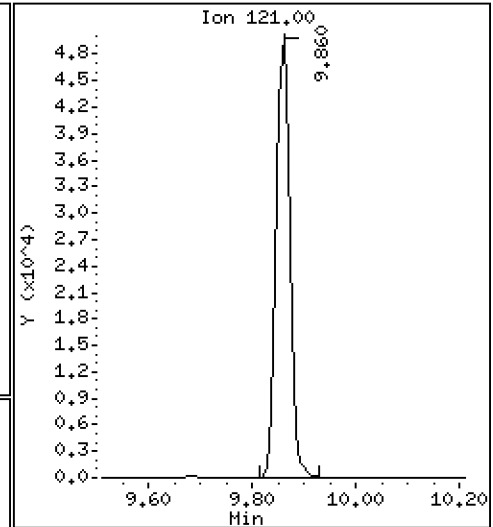
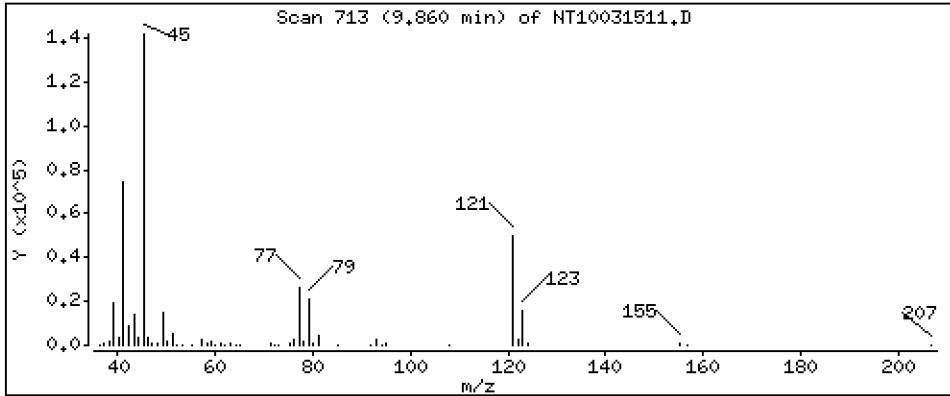
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 6,214 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

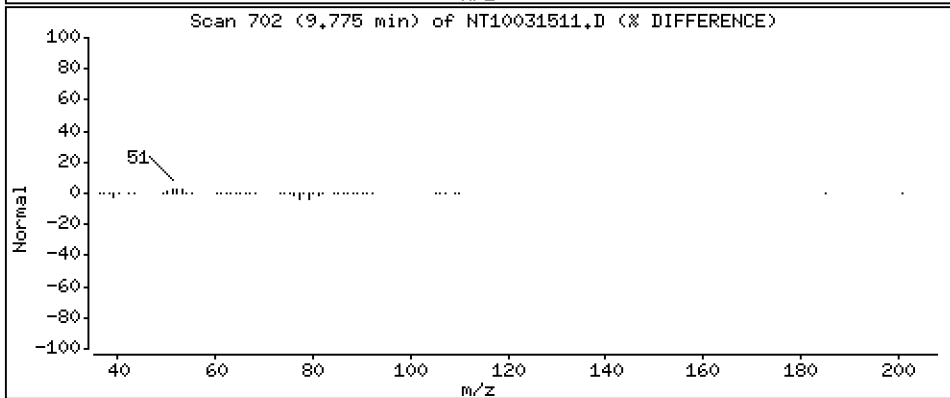
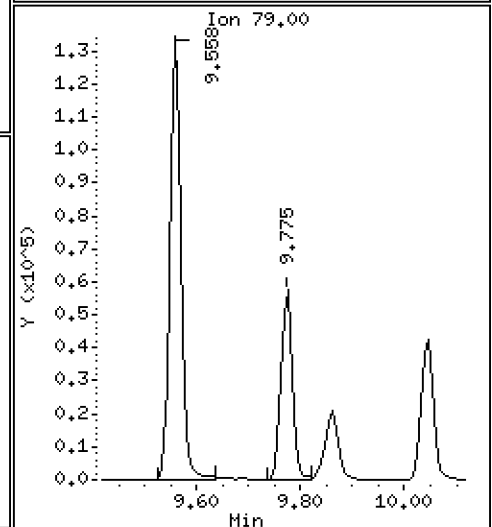
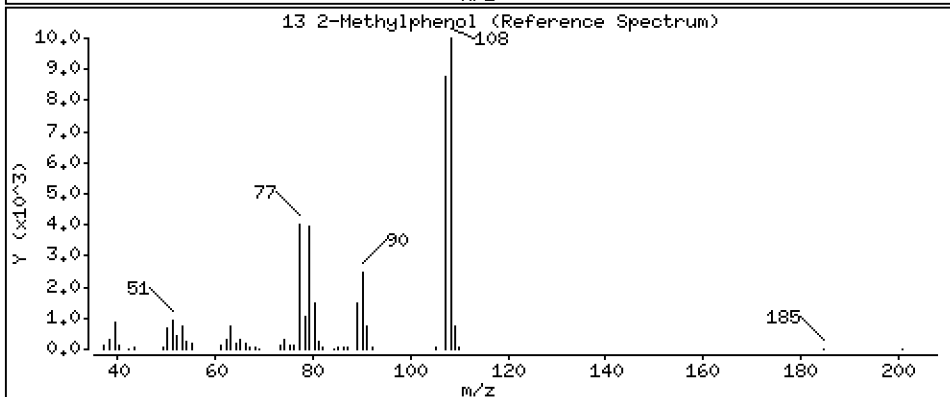
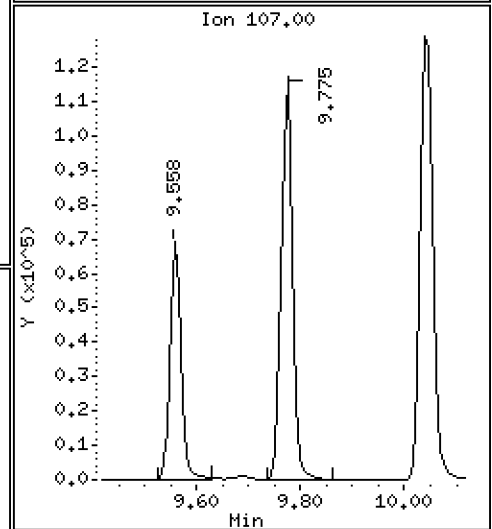
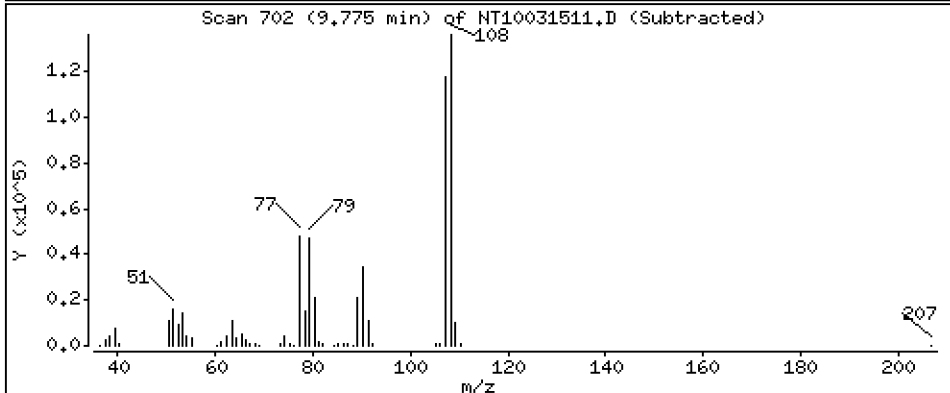
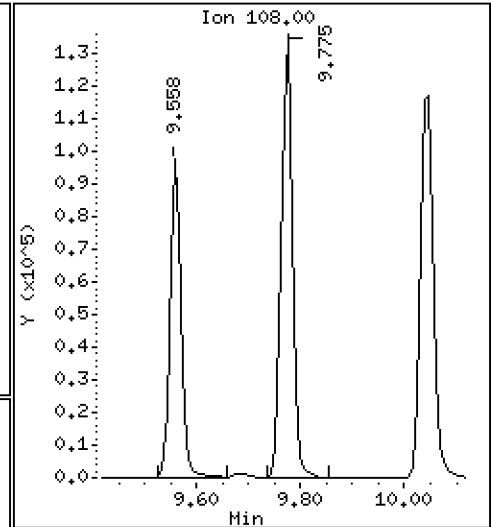
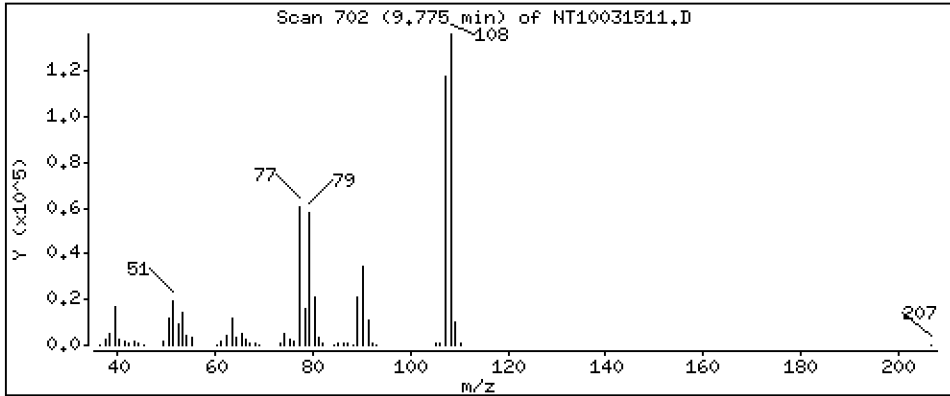
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 4,215 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

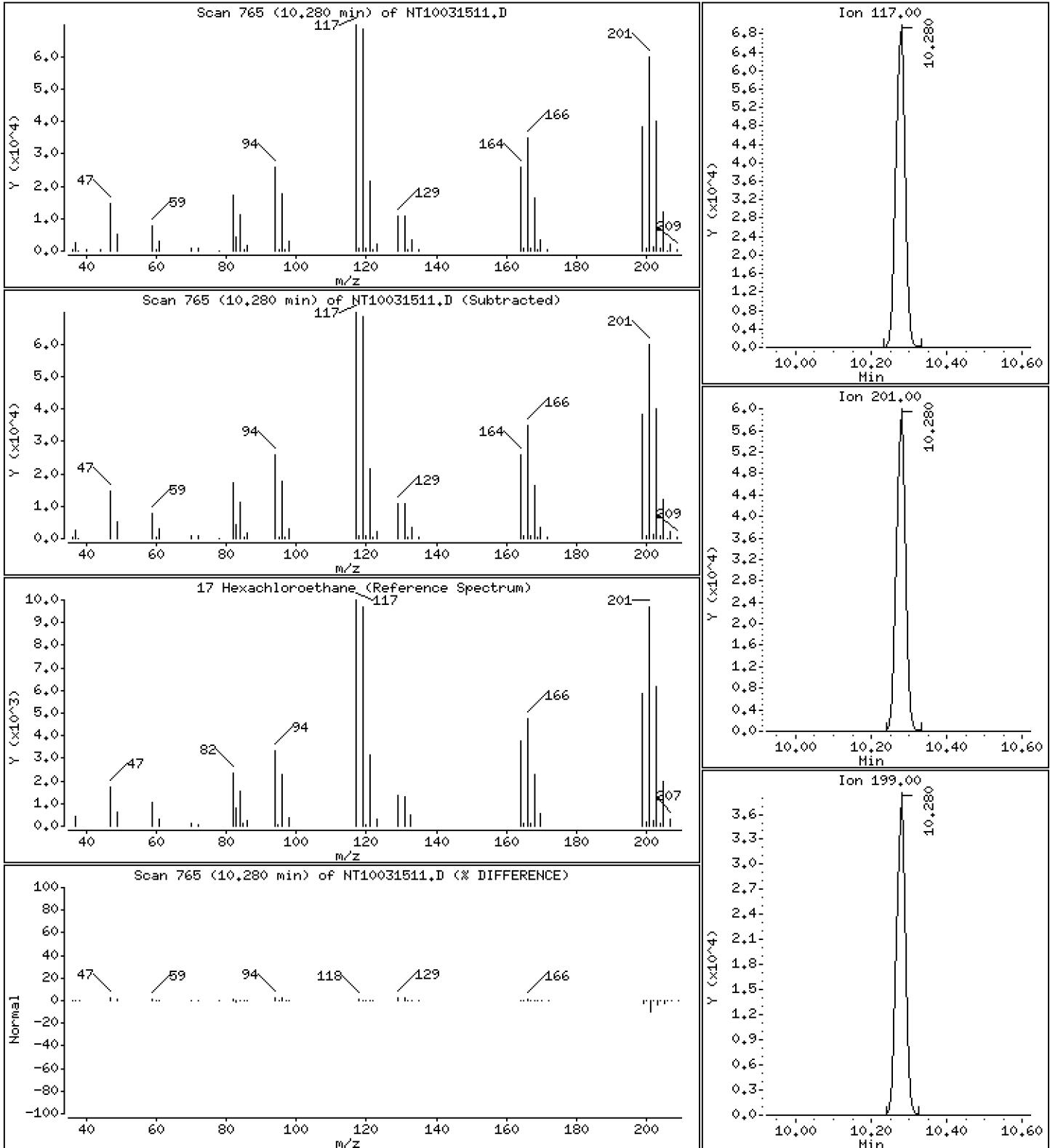
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 5,003 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

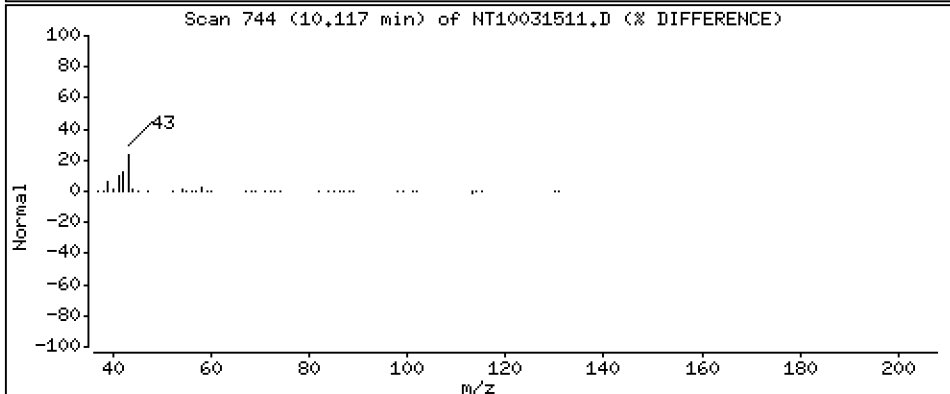
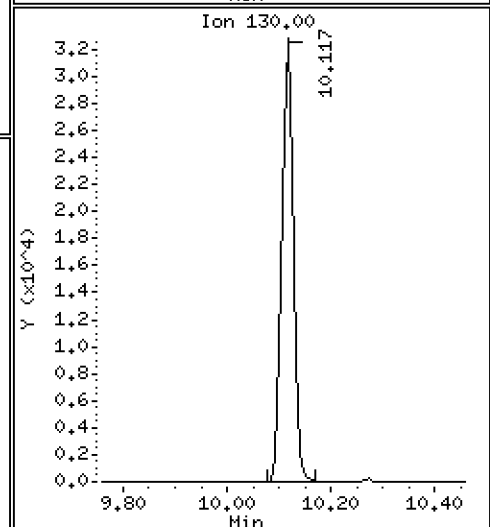
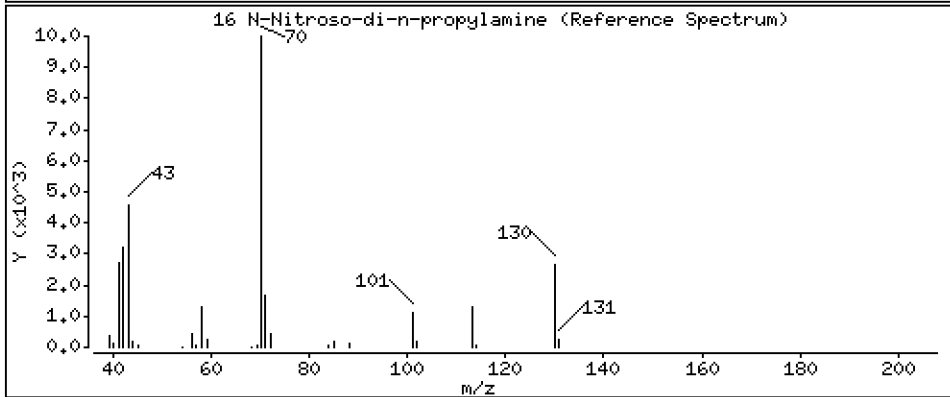
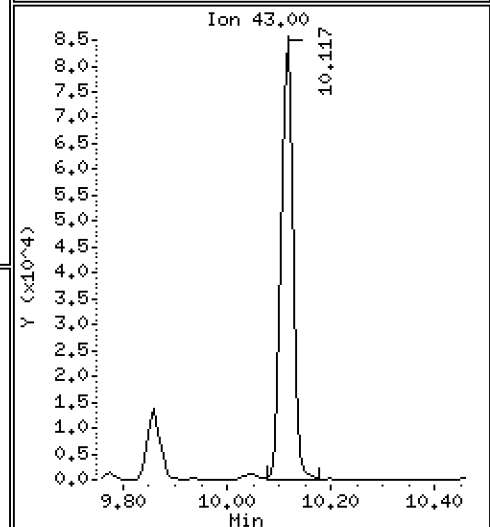
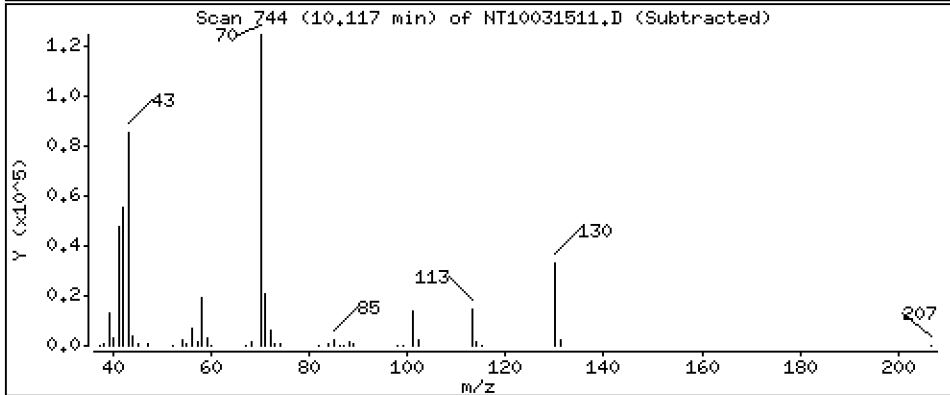
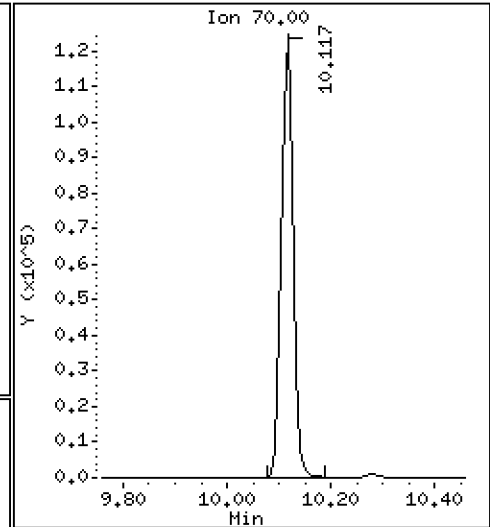
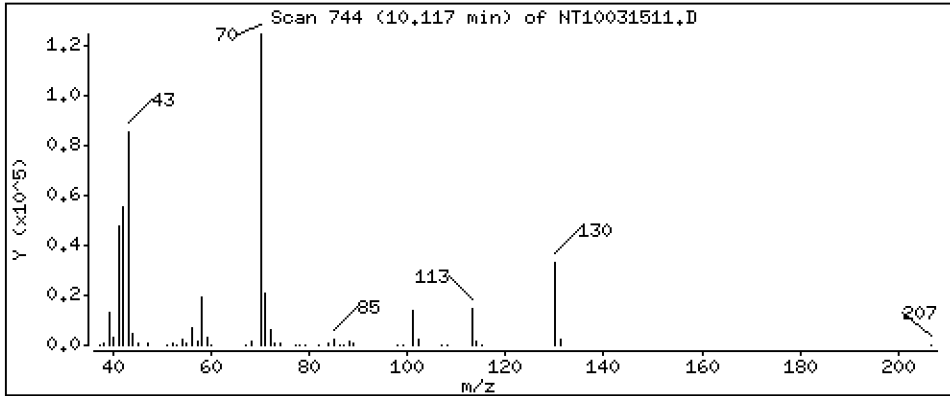
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,179 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

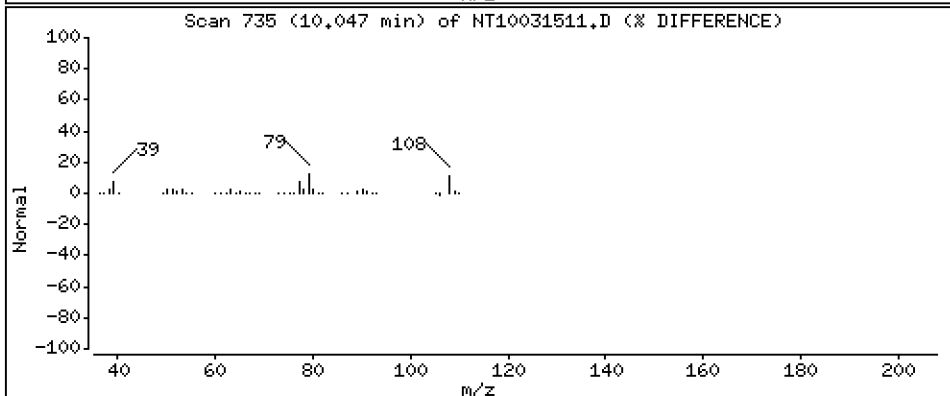
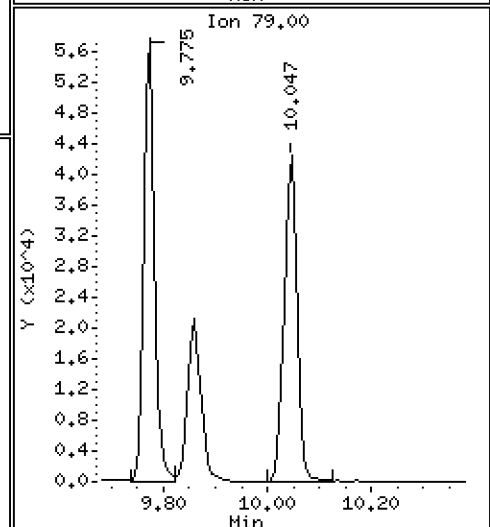
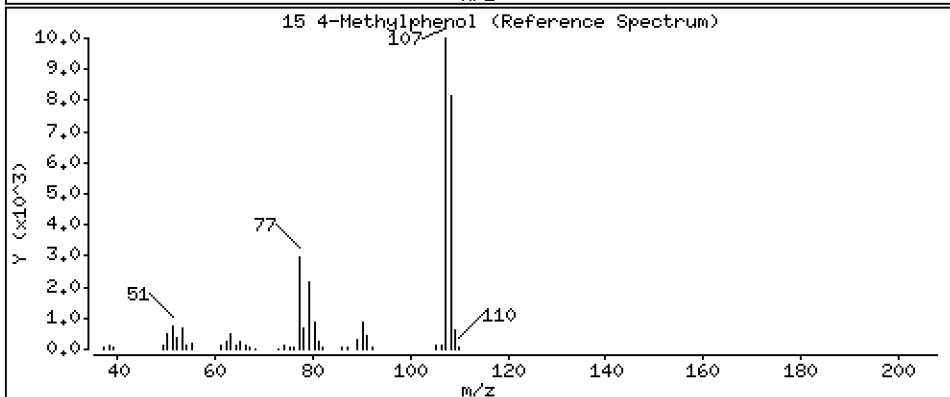
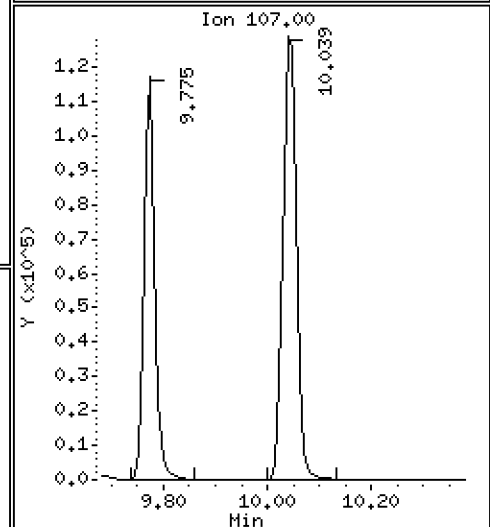
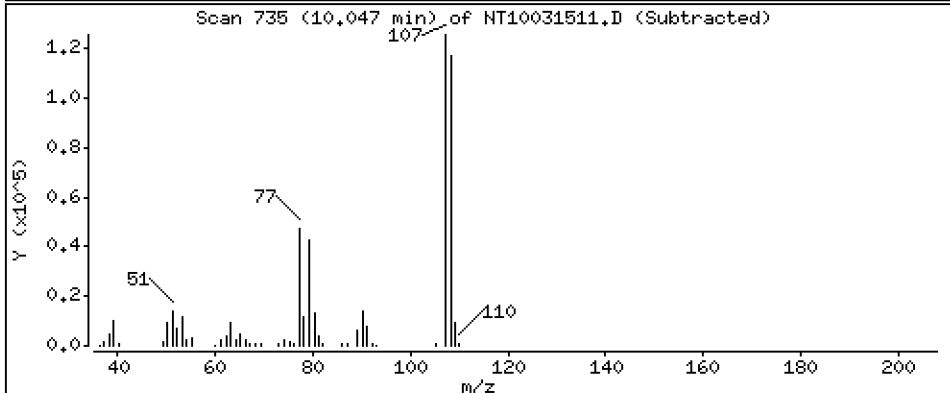
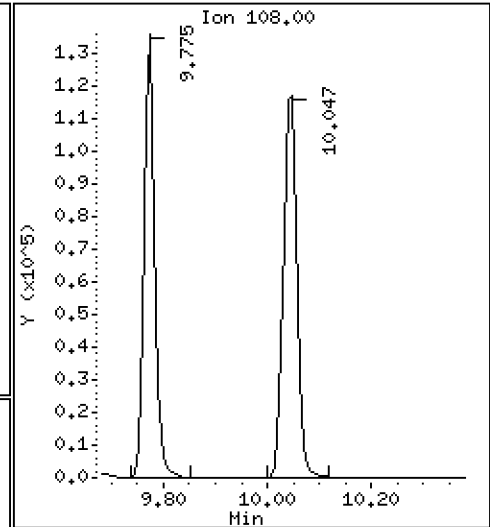
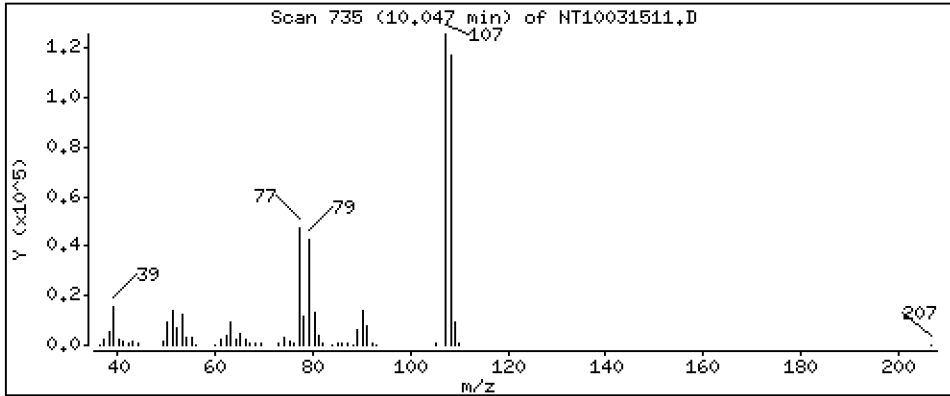
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,365 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

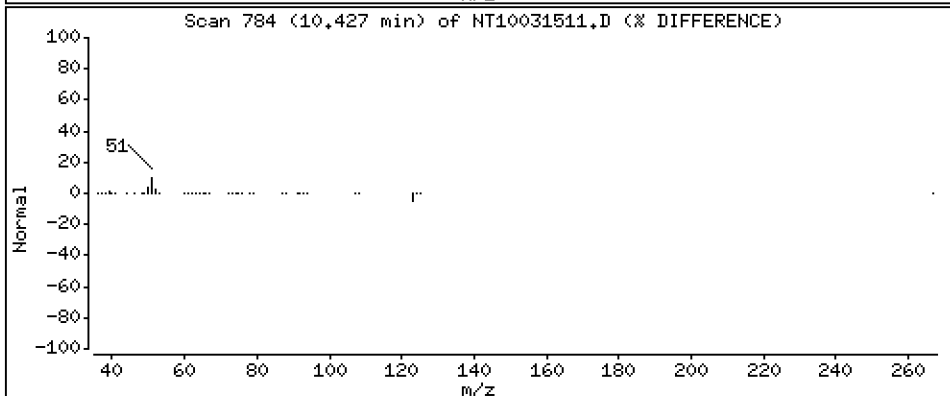
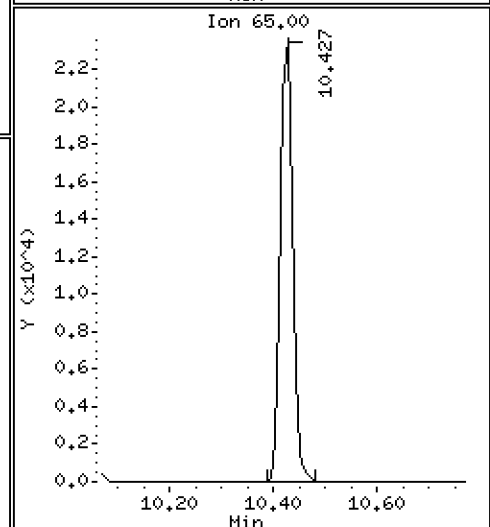
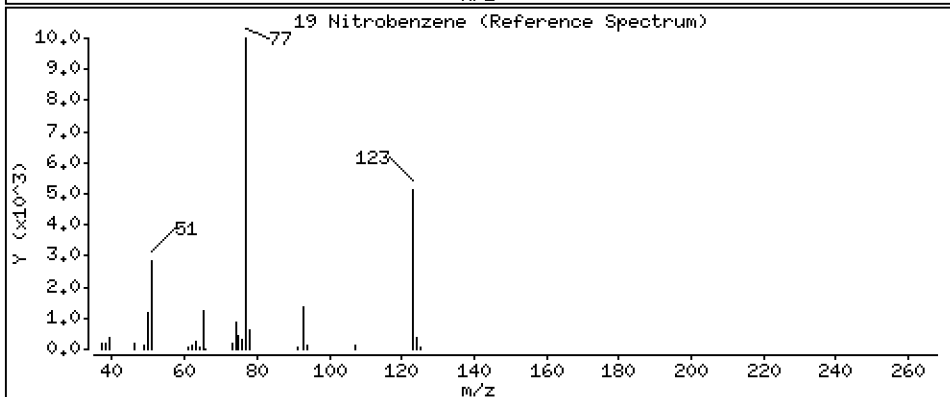
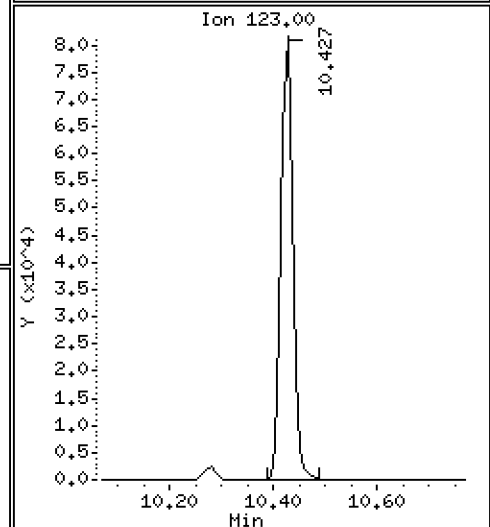
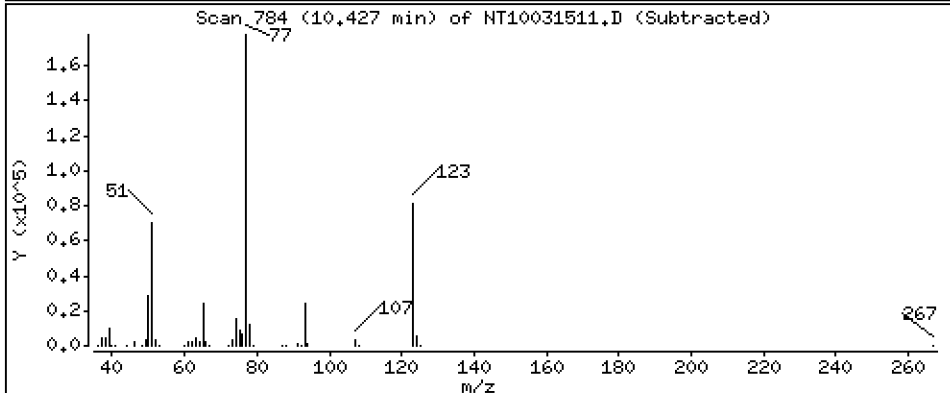
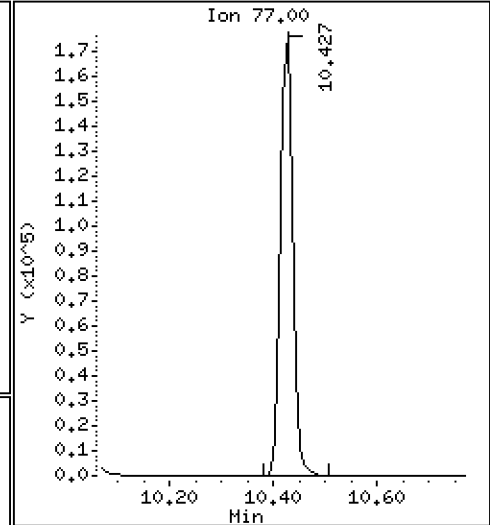
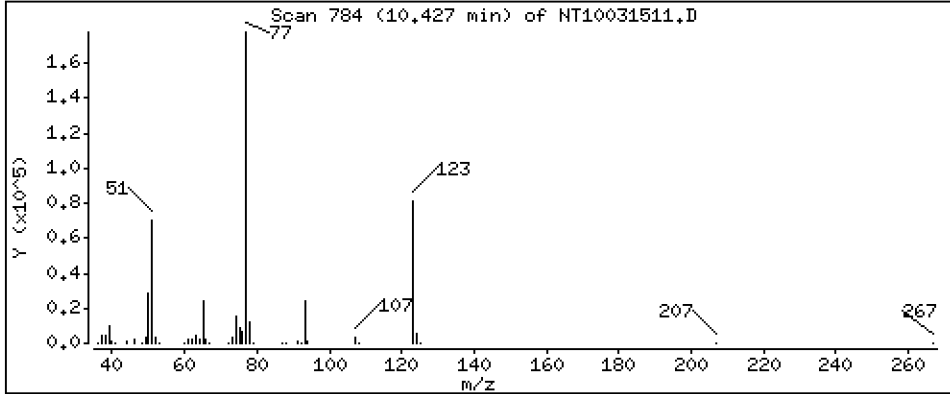
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,858 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

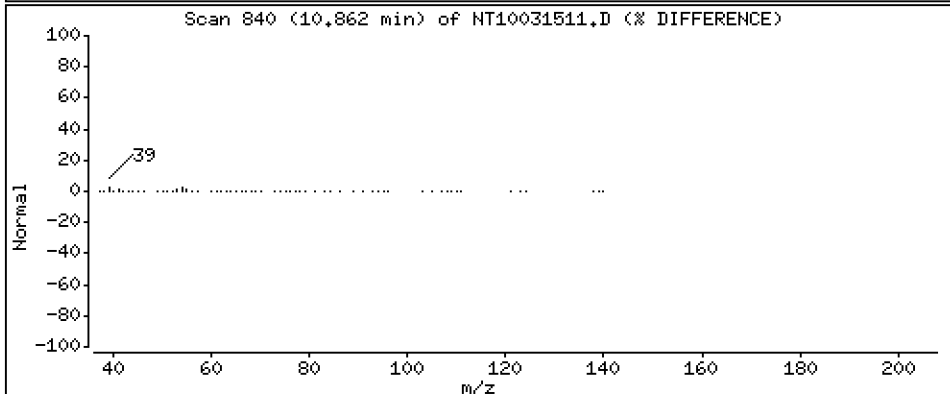
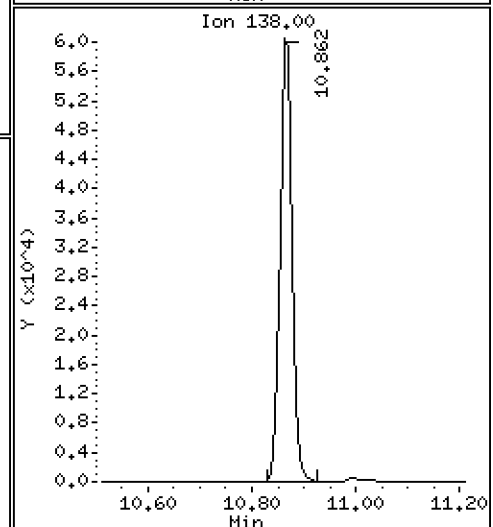
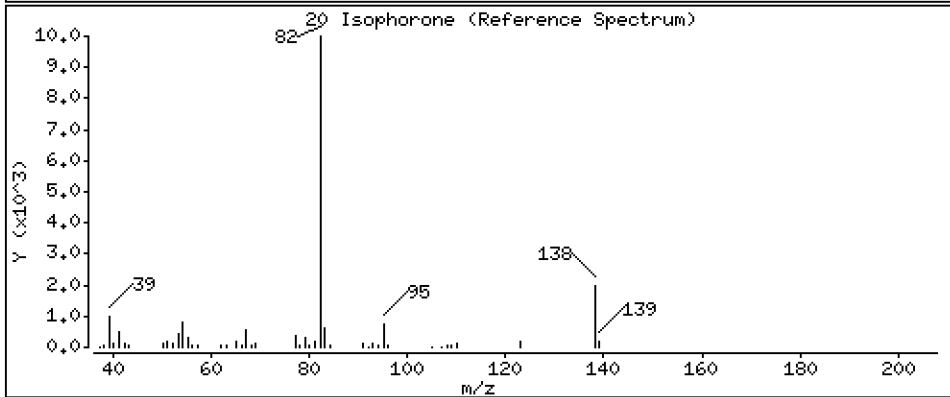
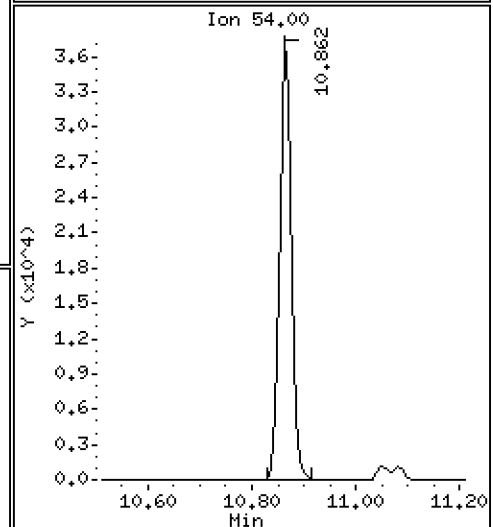
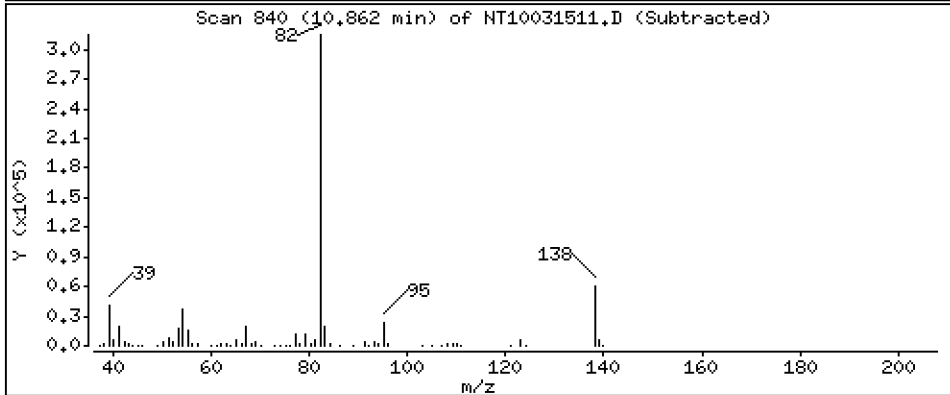
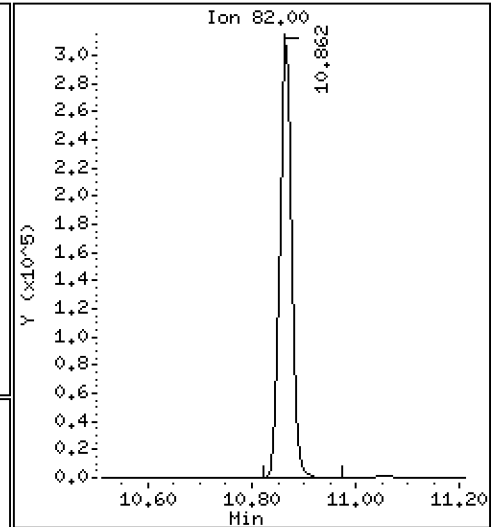
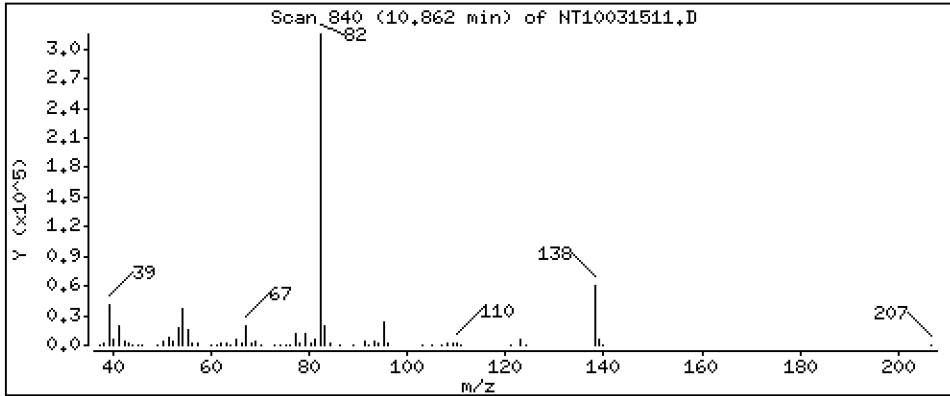
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 7,696 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

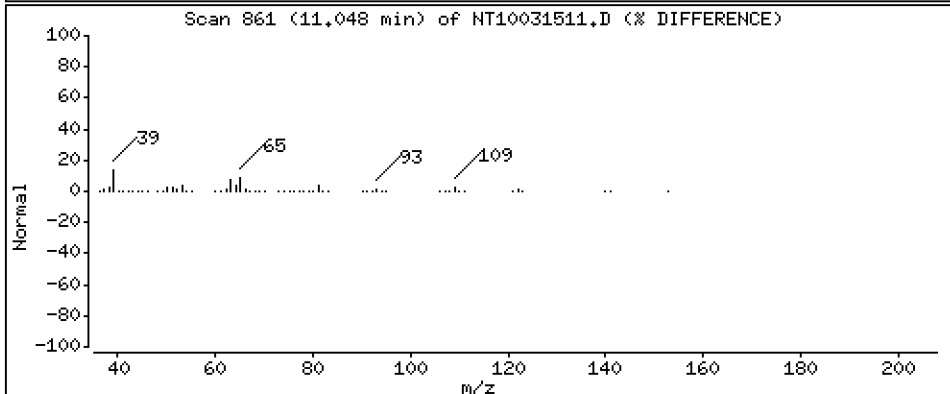
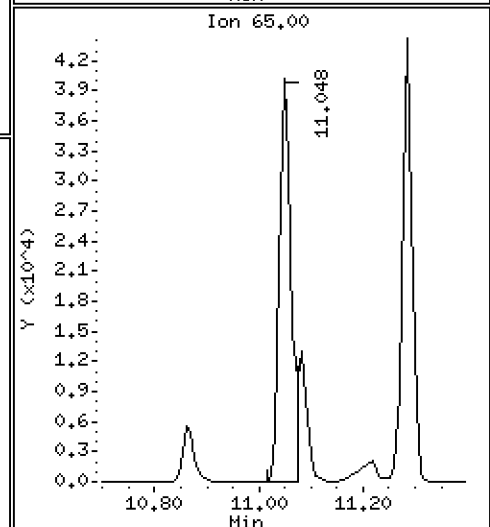
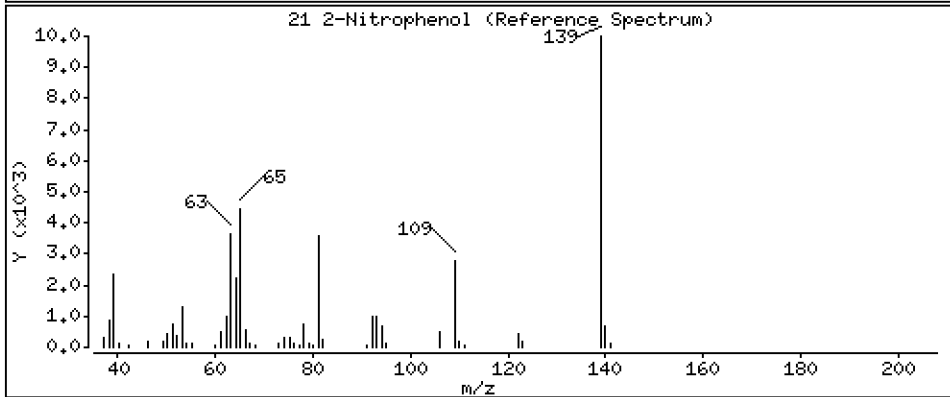
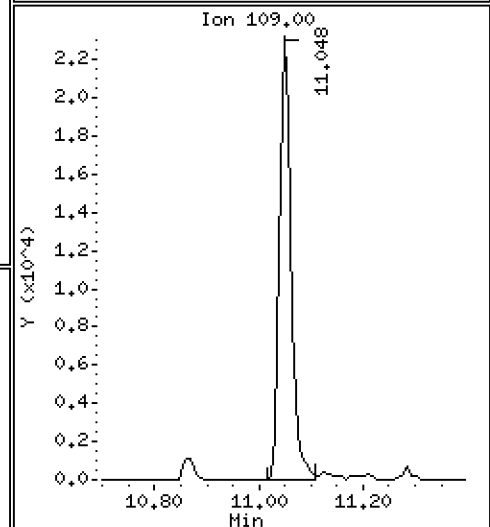
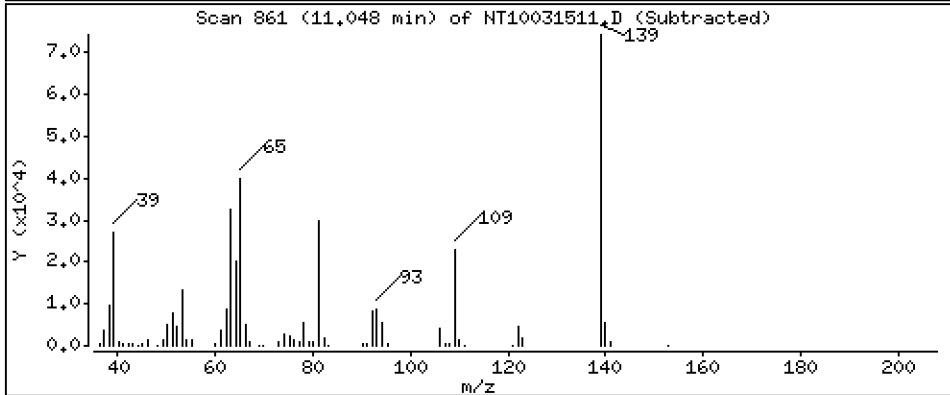
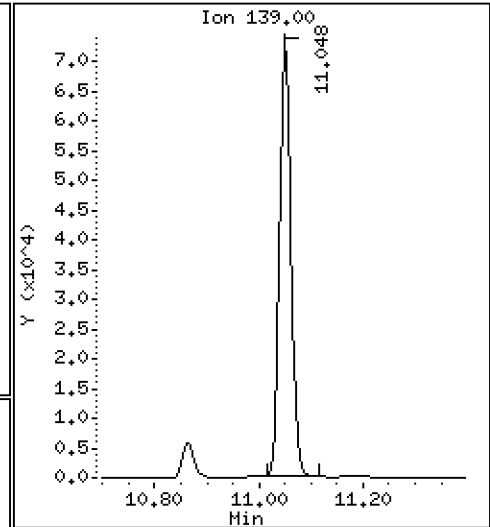
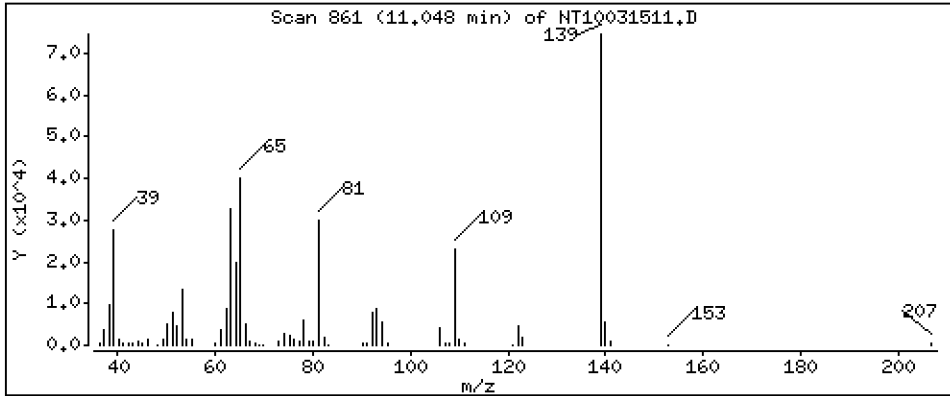
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 3,995 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

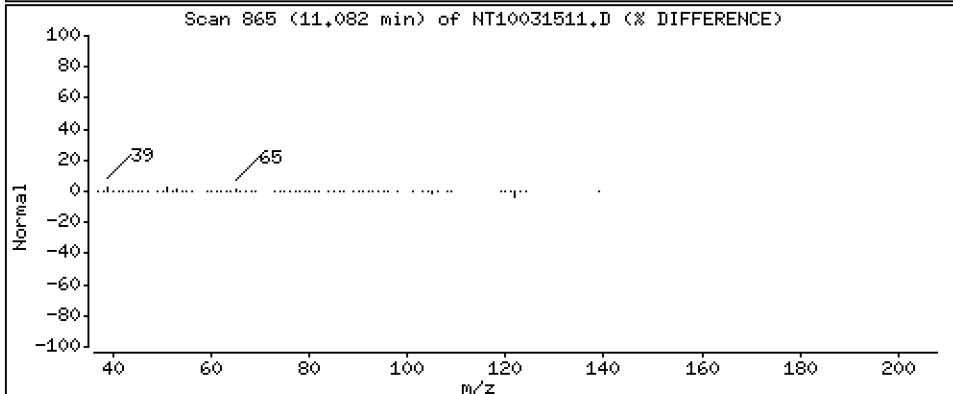
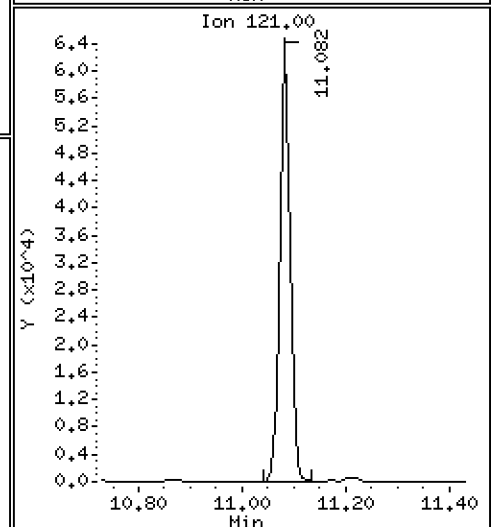
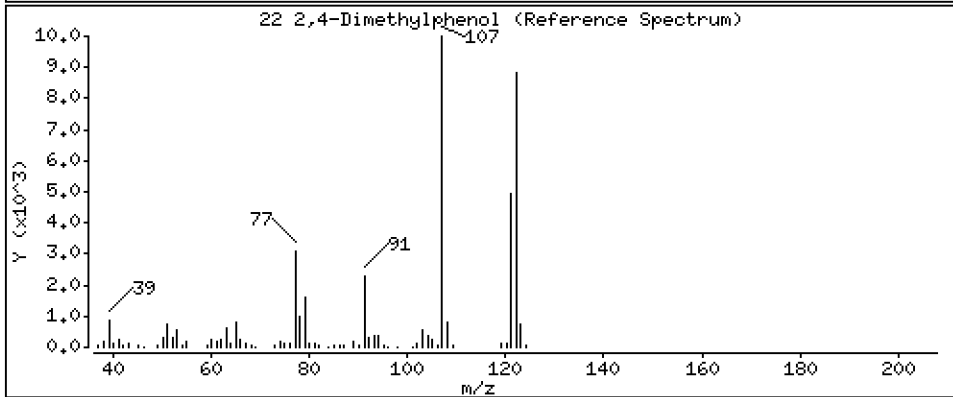
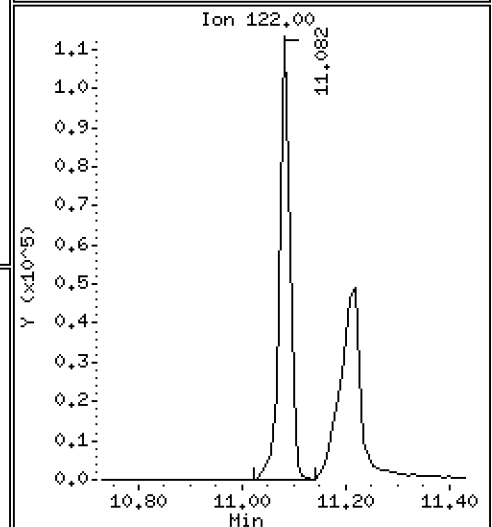
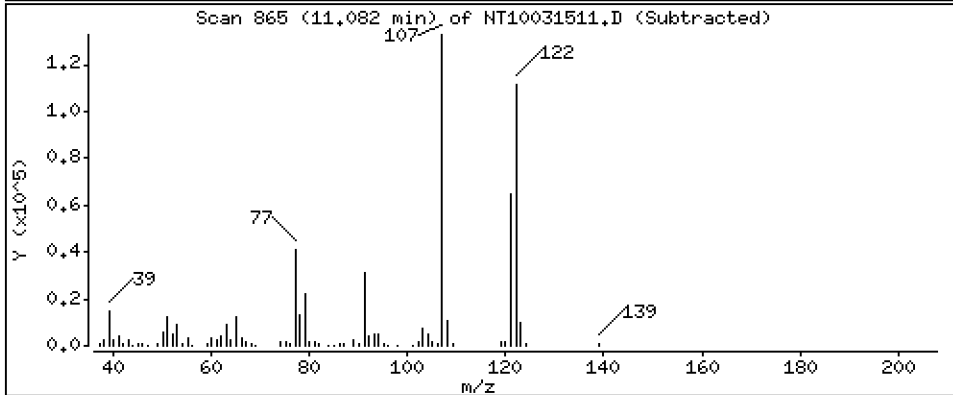
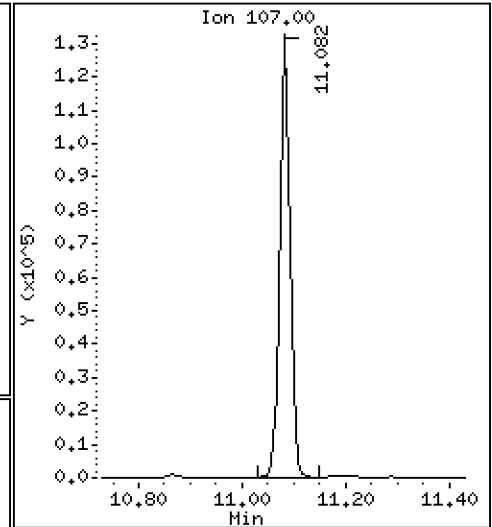
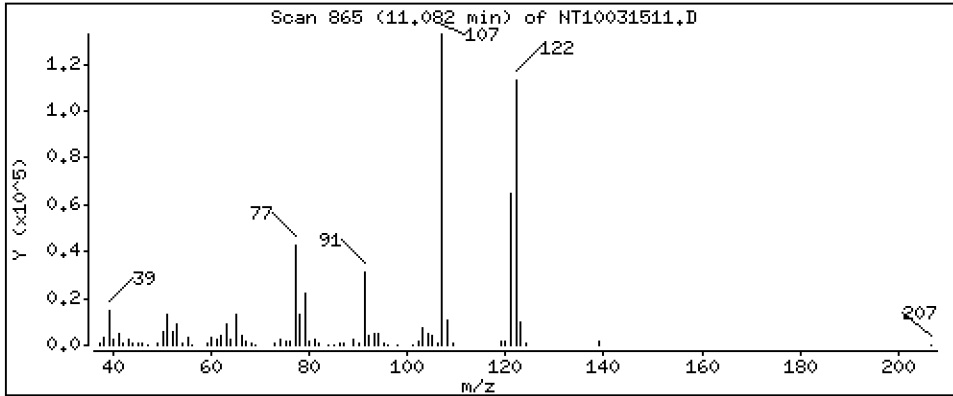
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 3,632 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

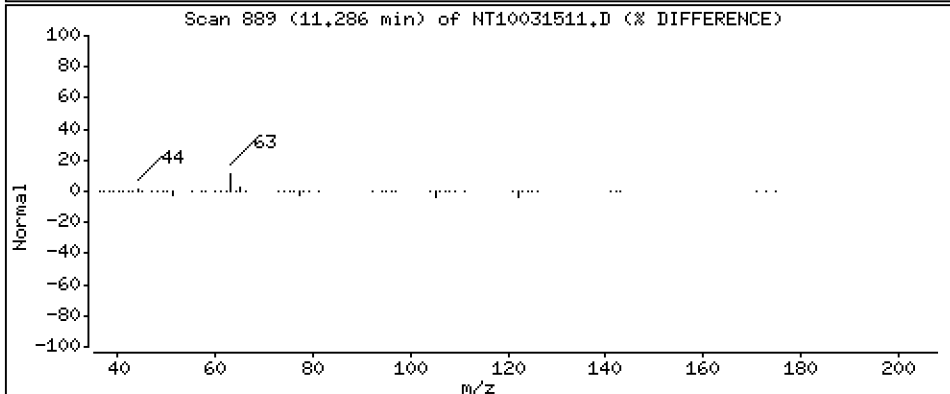
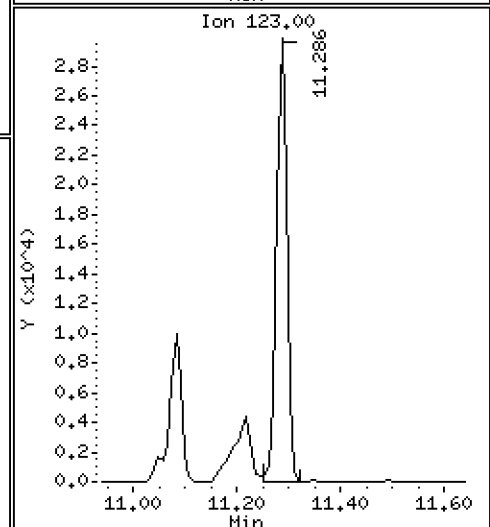
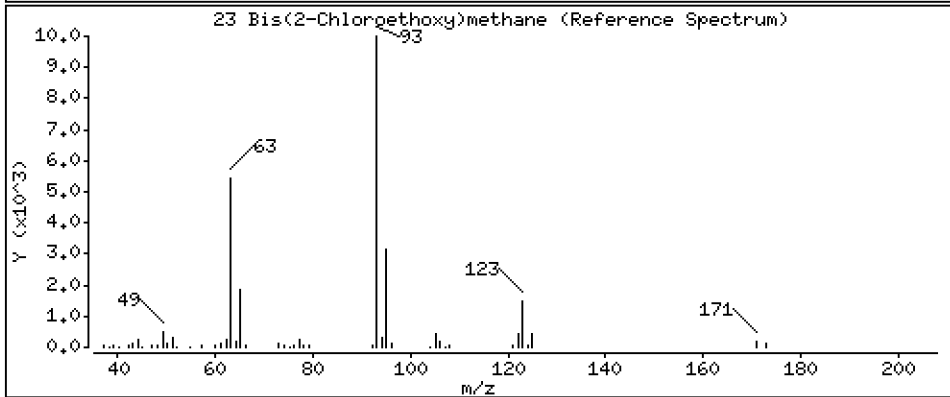
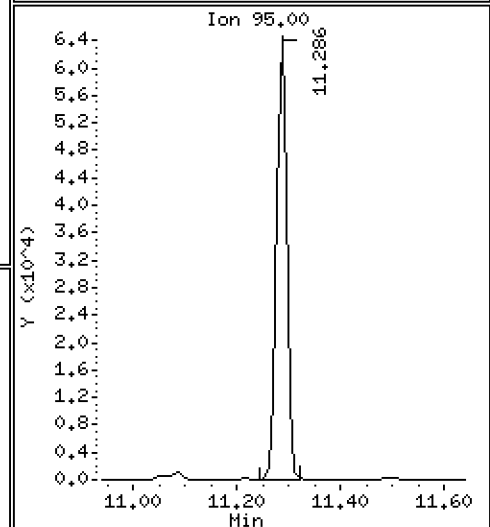
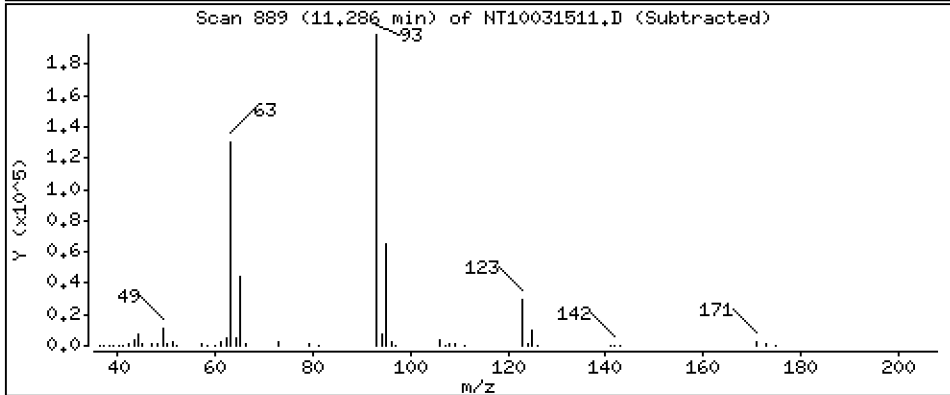
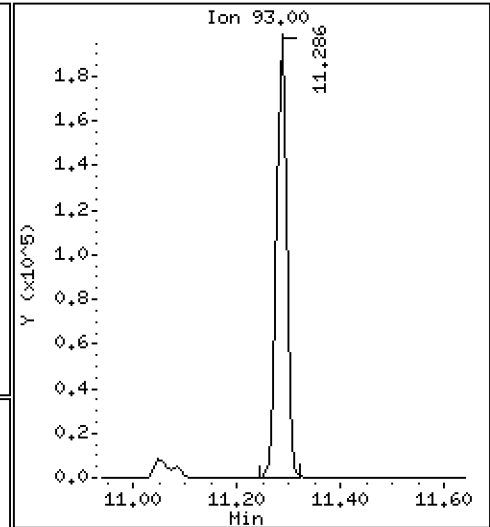
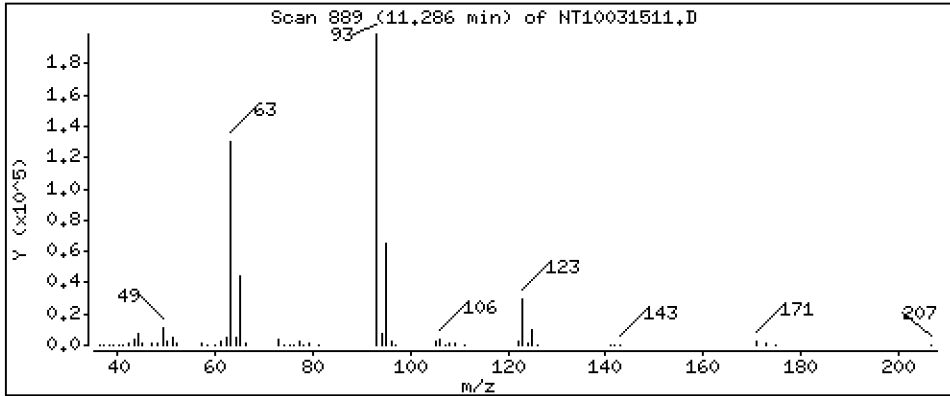
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,654 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

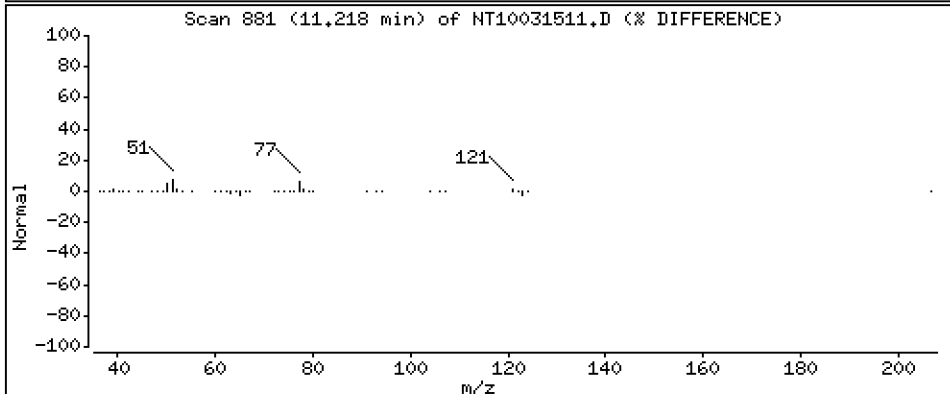
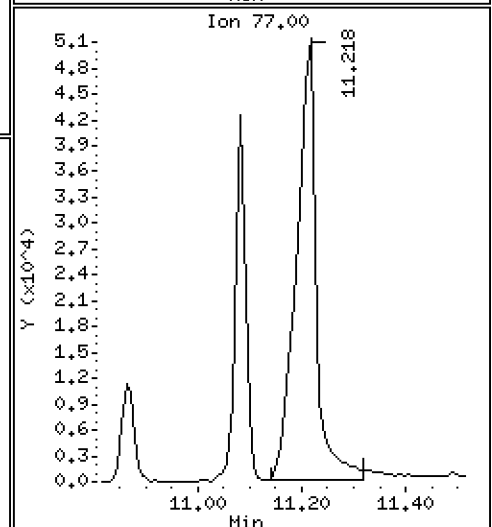
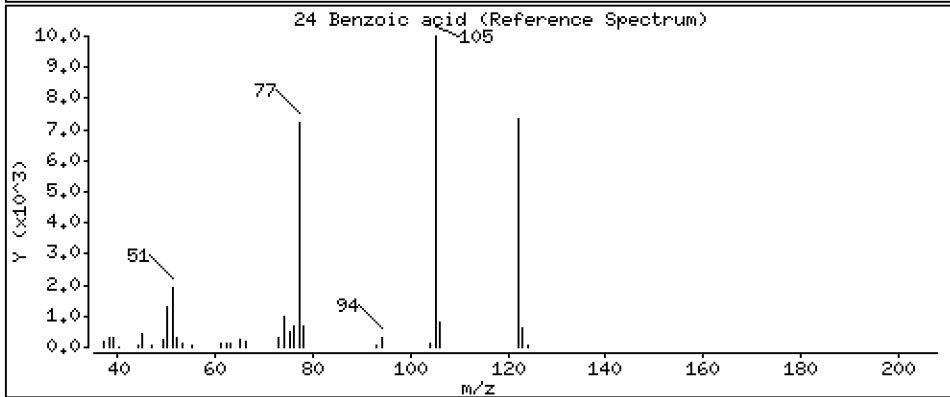
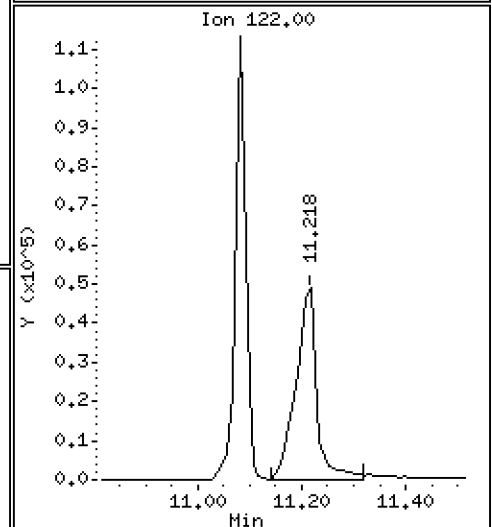
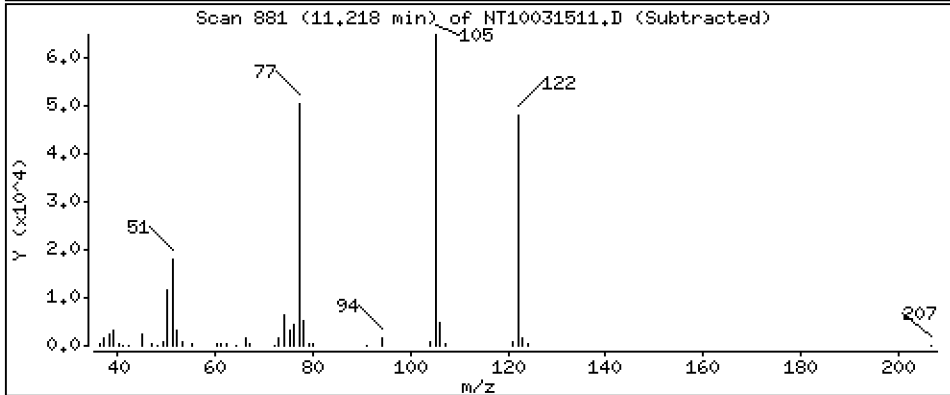
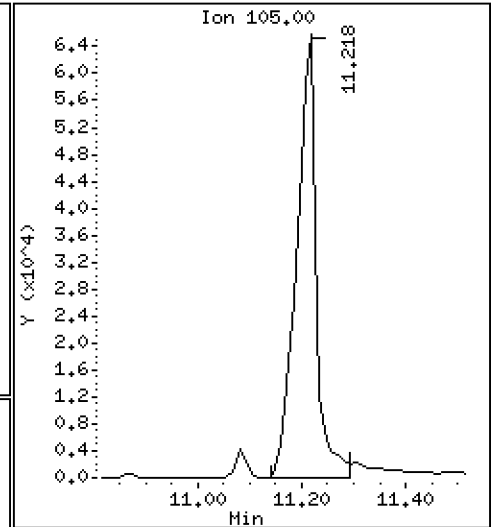
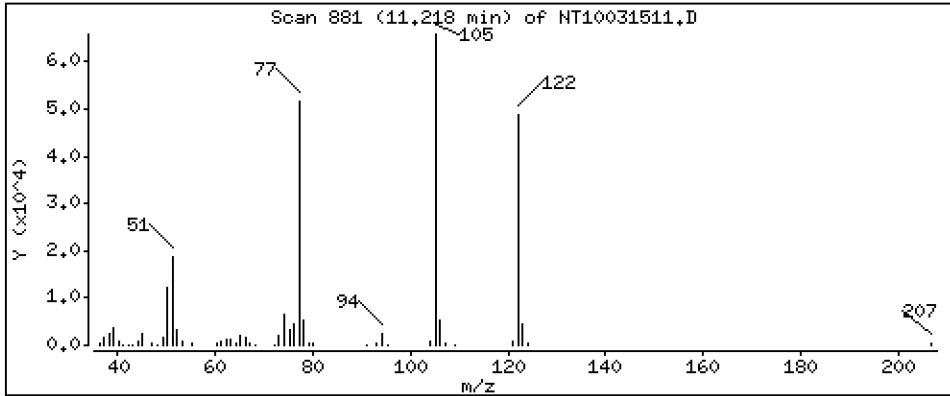
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 5,952 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

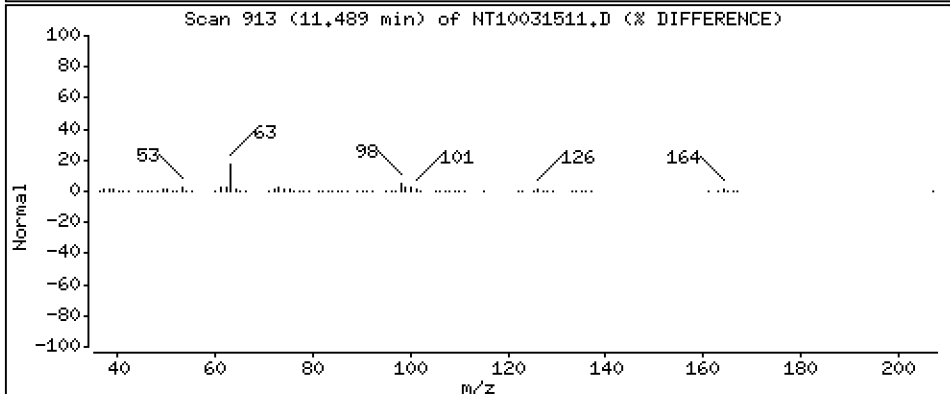
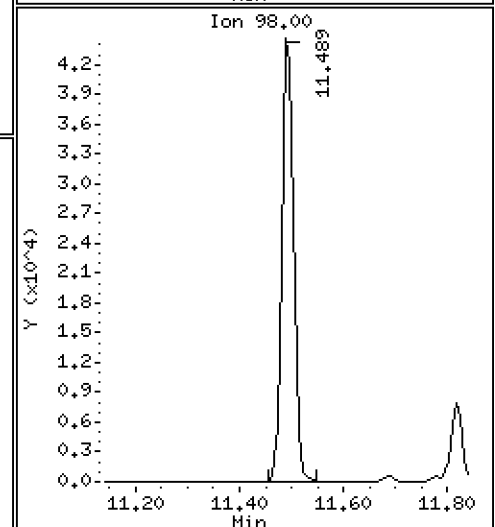
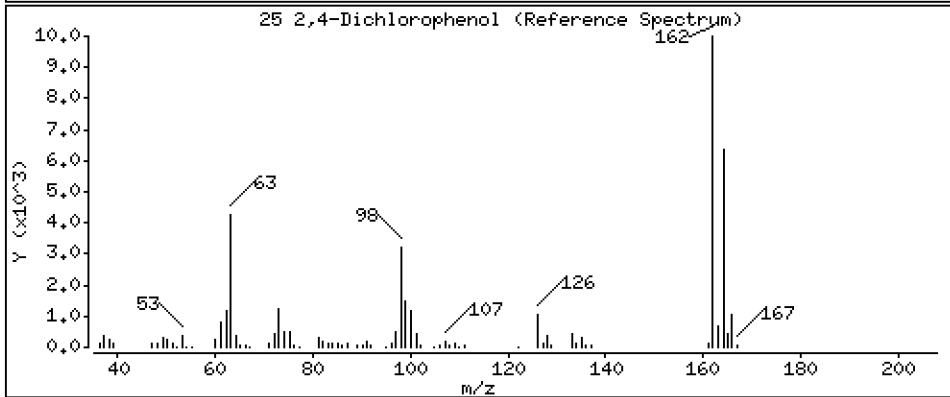
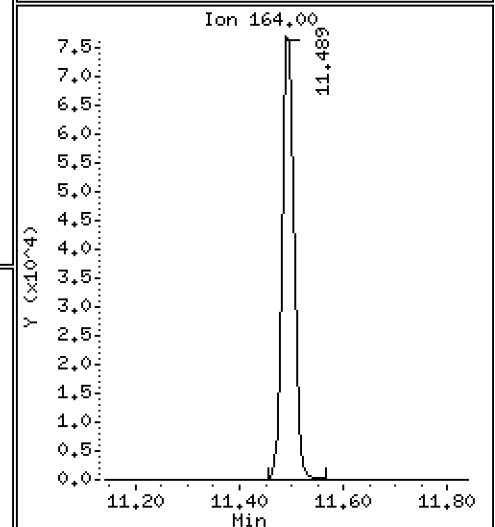
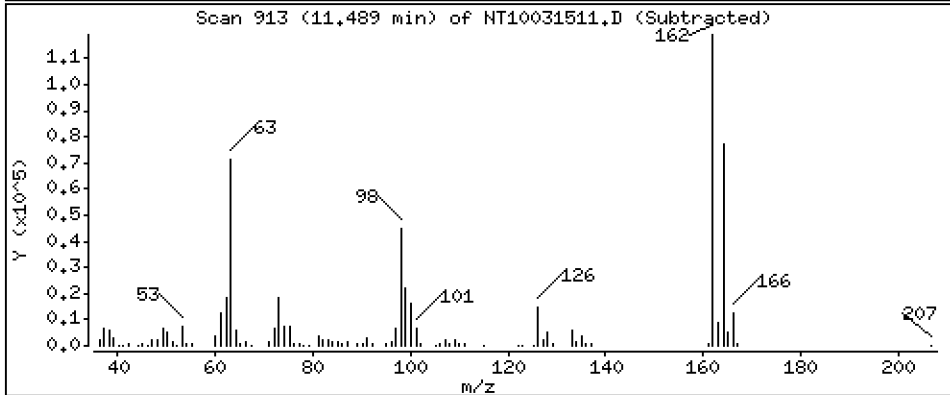
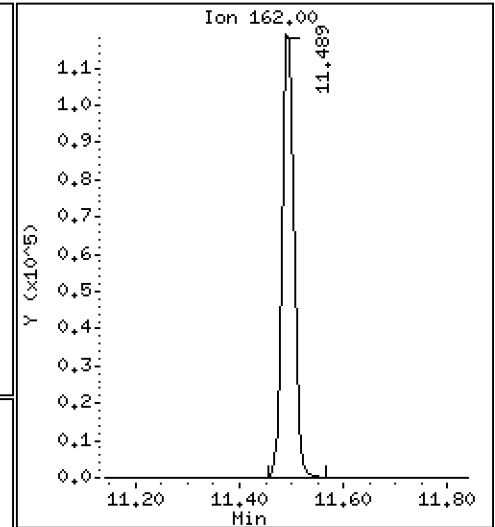
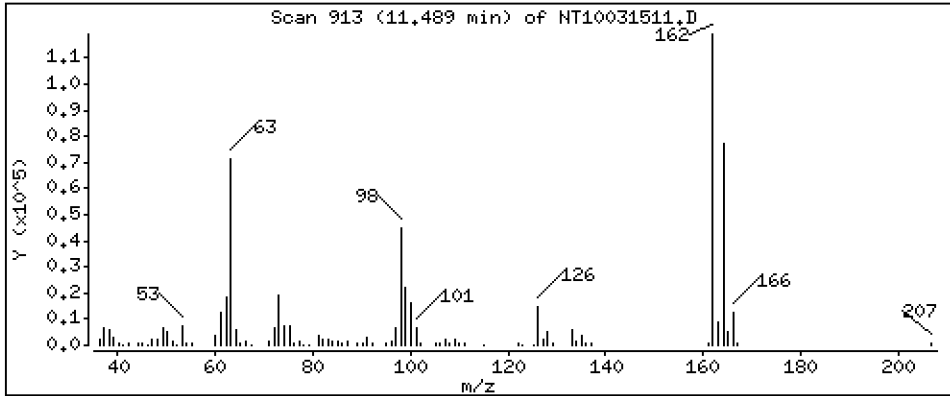
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 4,703 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

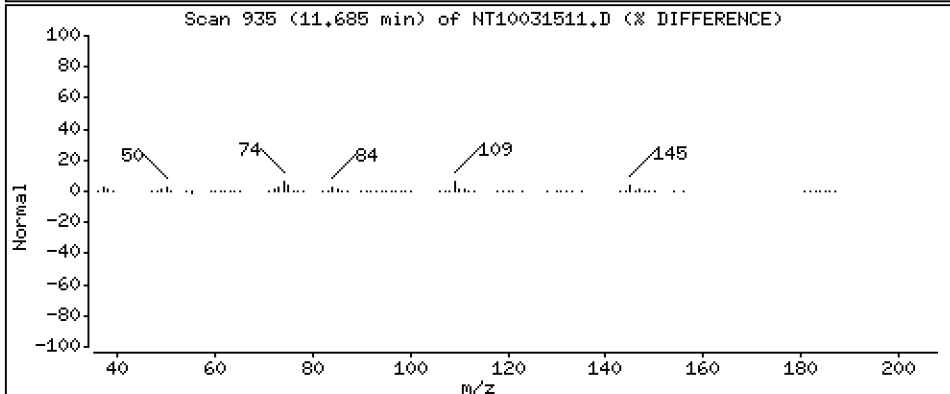
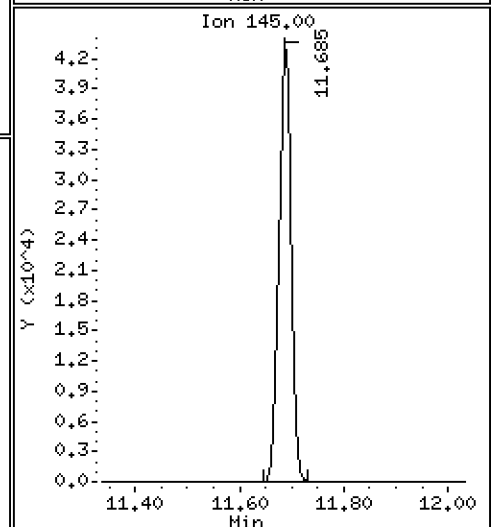
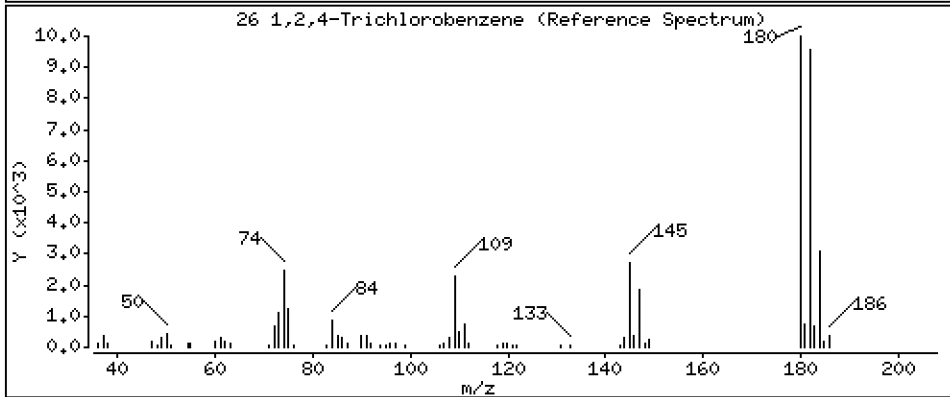
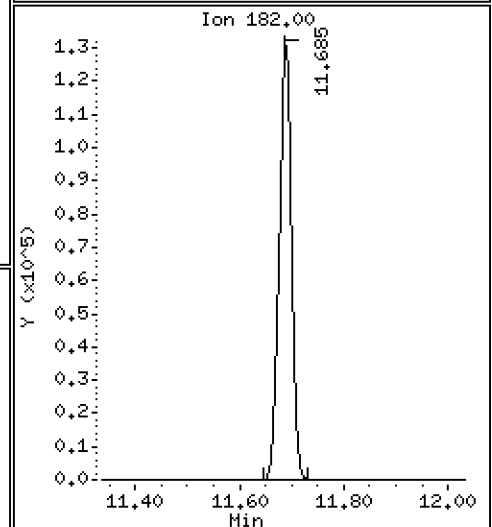
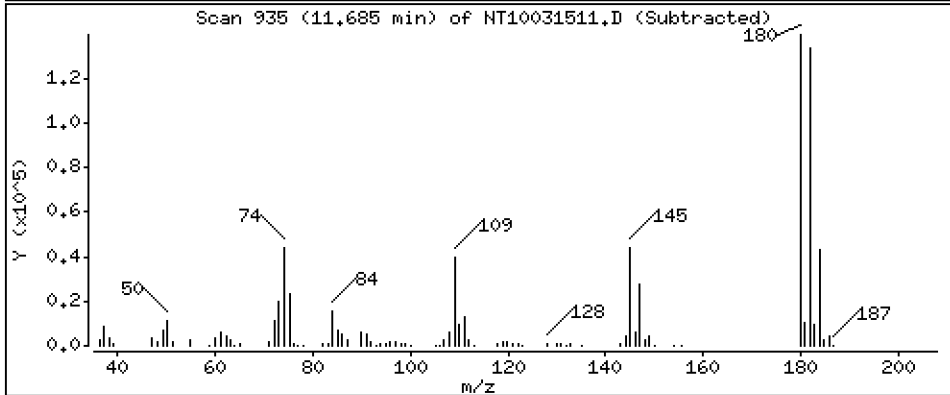
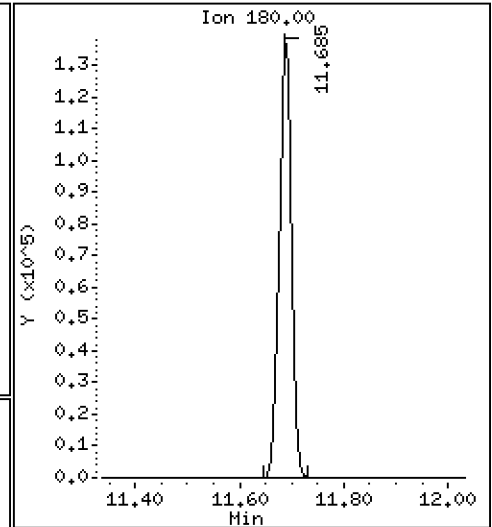
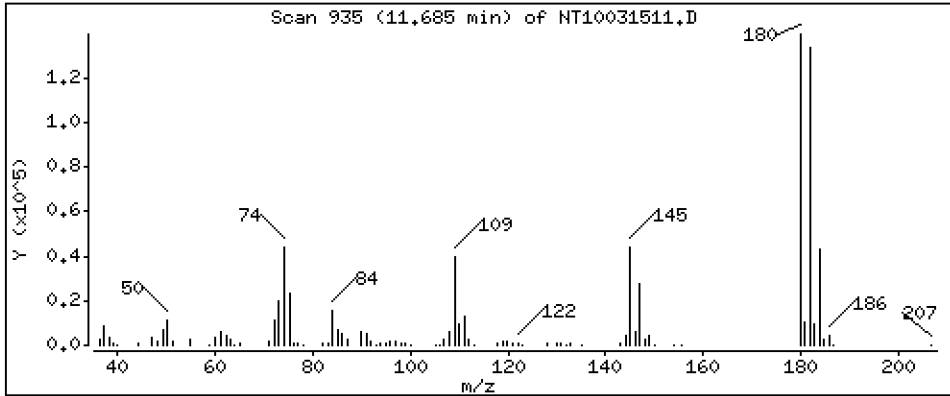
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,554 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

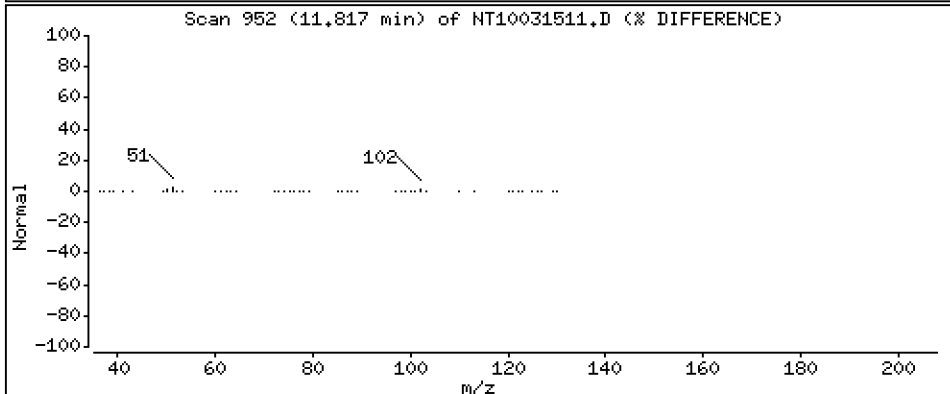
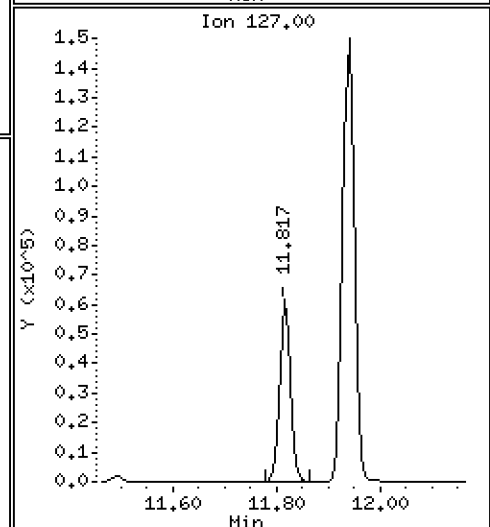
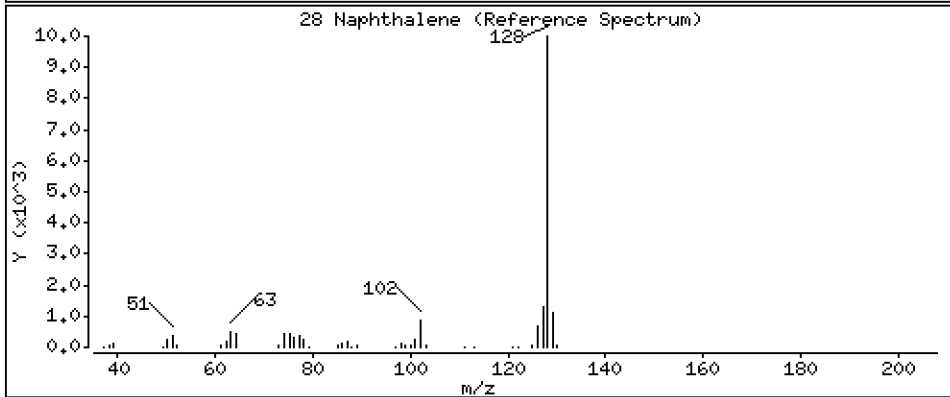
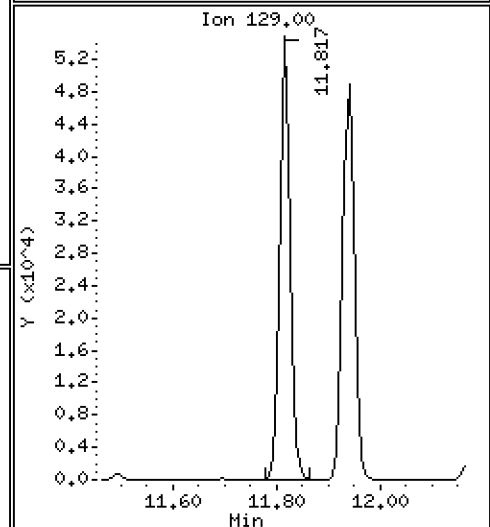
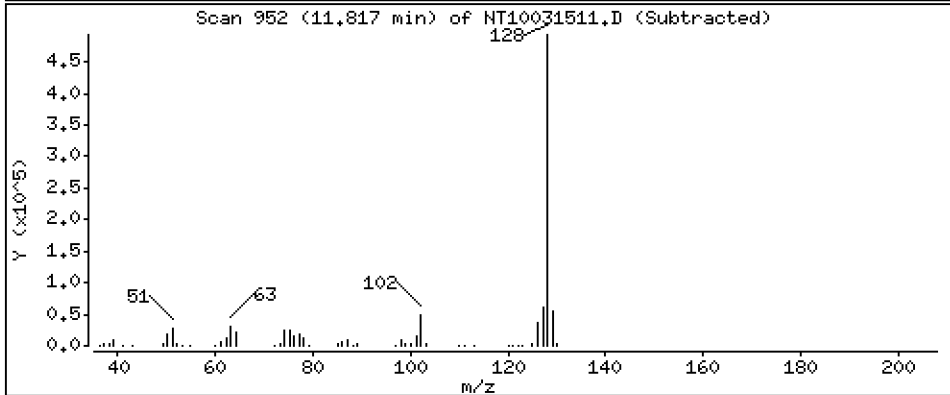
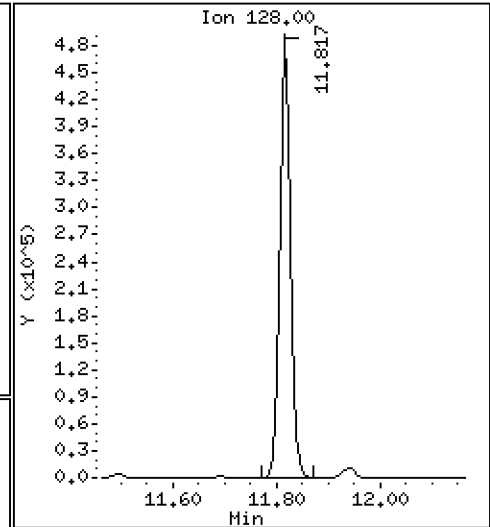
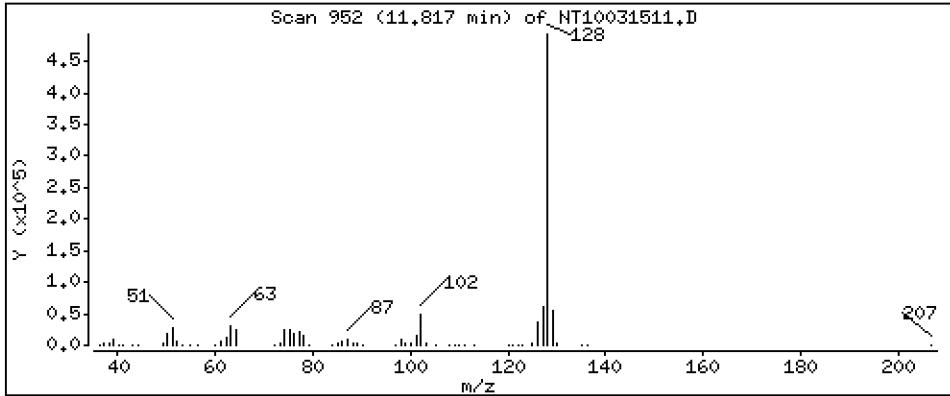
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,717 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

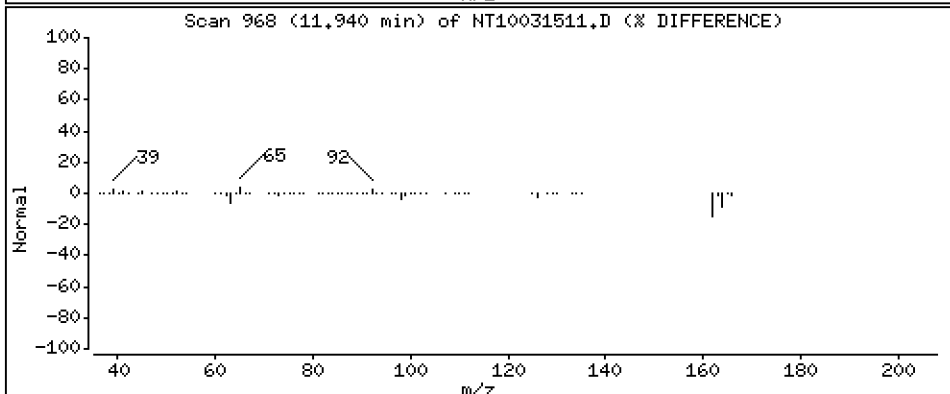
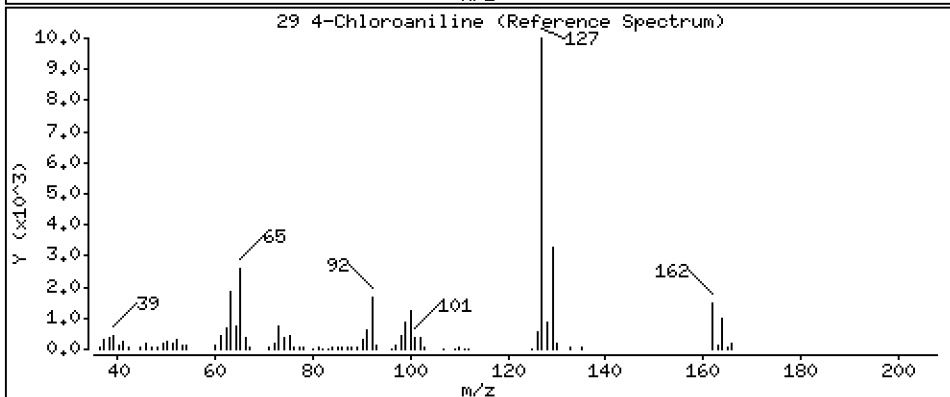
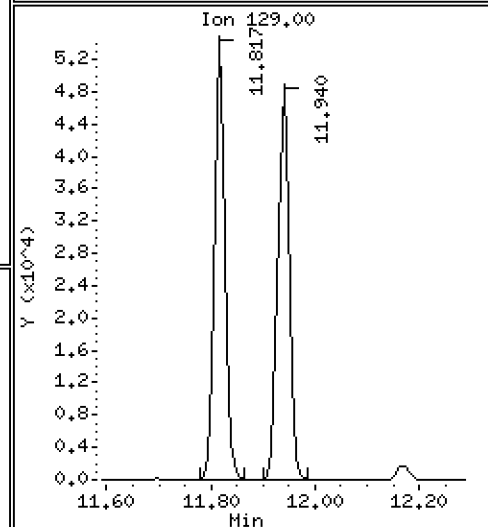
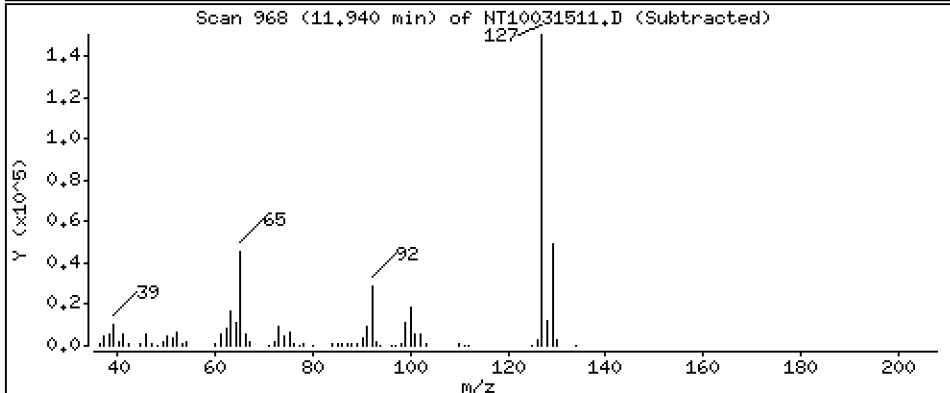
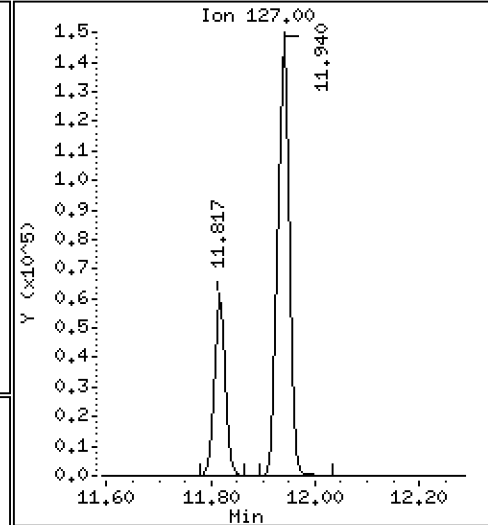
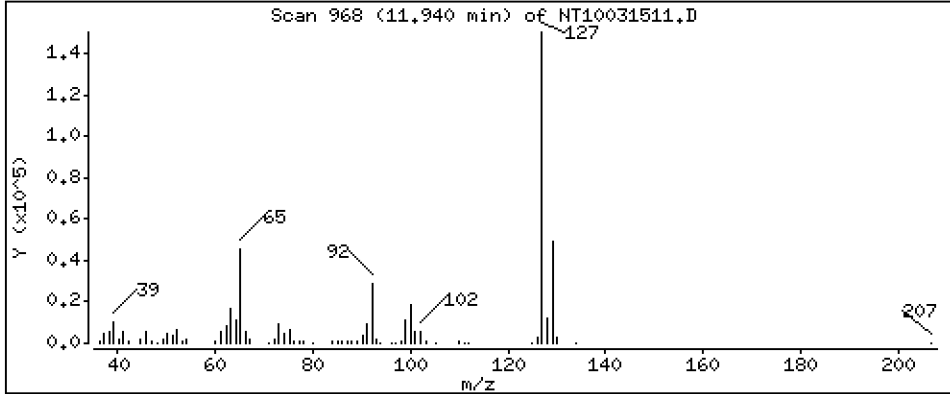
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 3,787 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

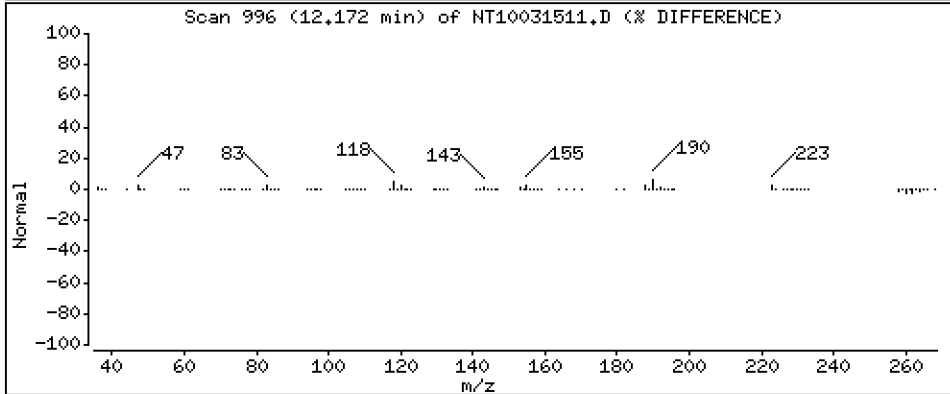
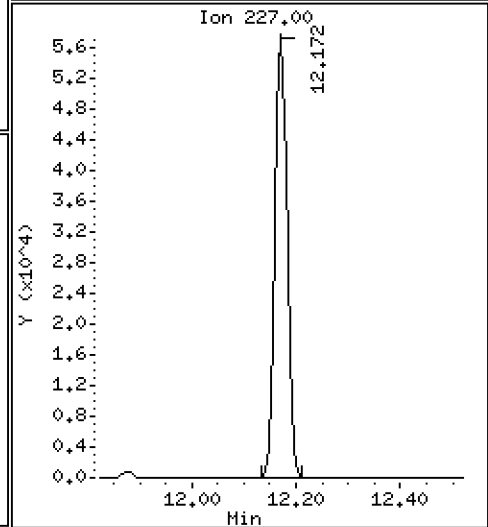
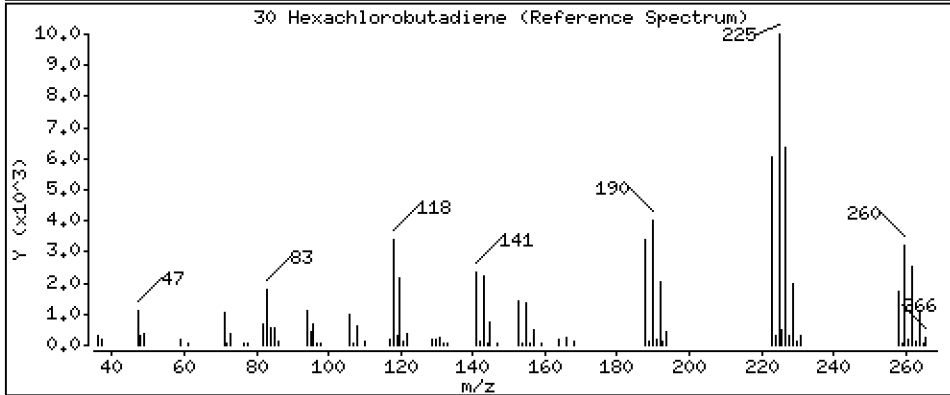
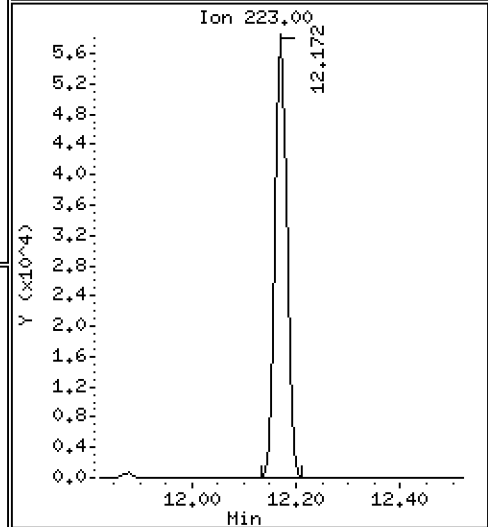
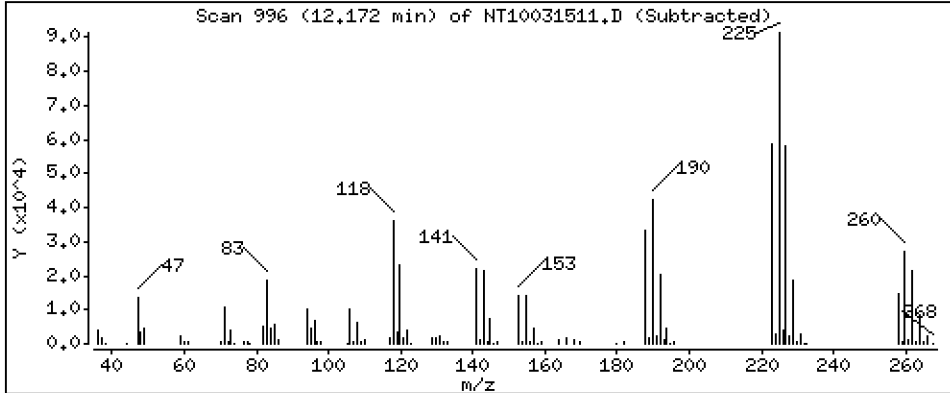
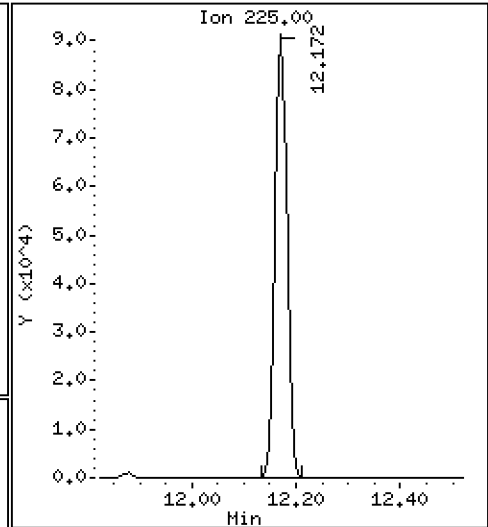
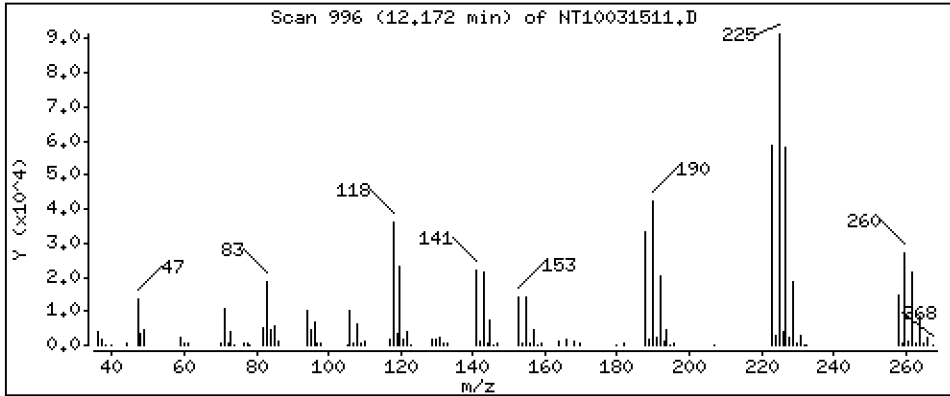
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,834 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

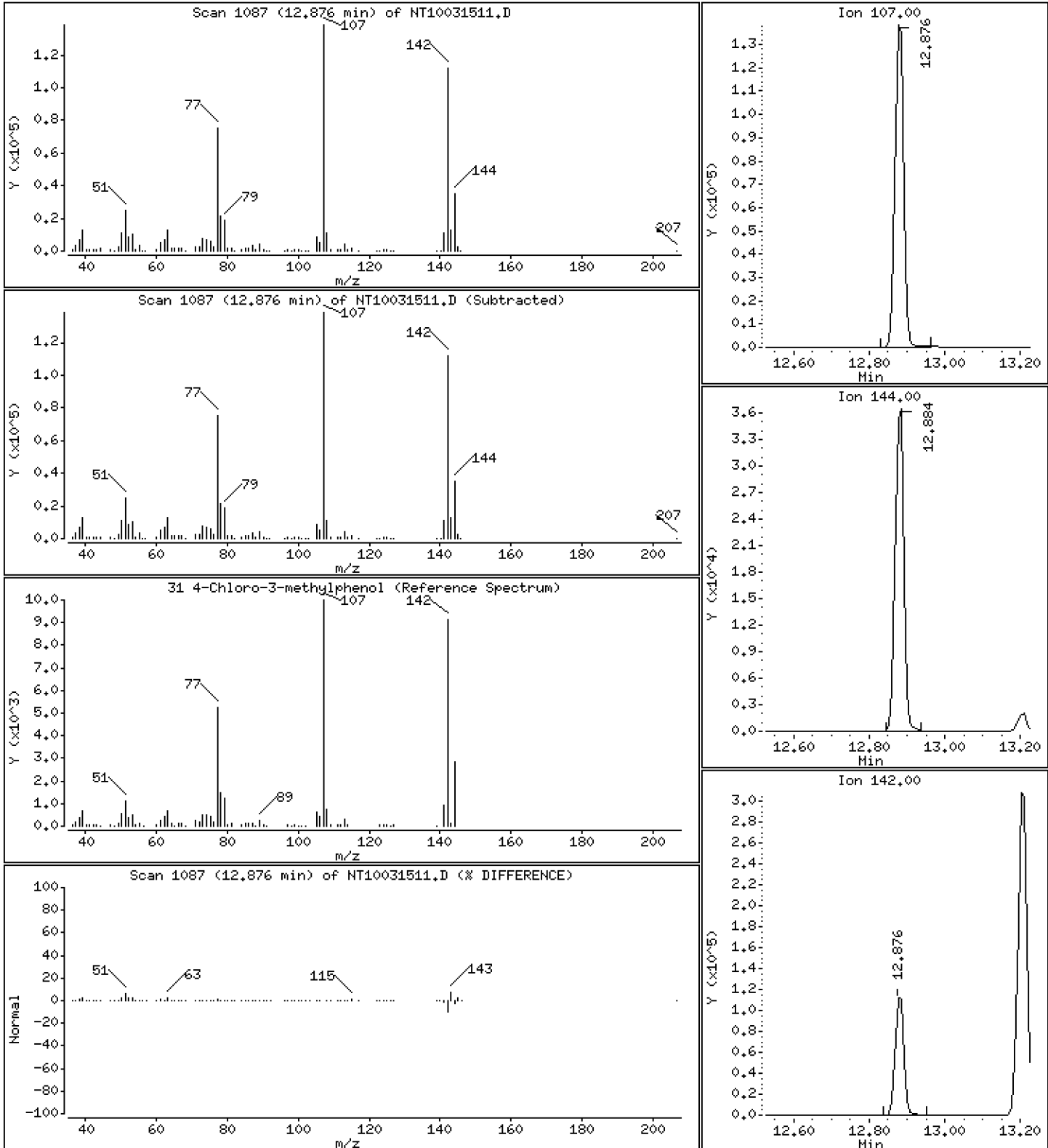
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 4,640 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

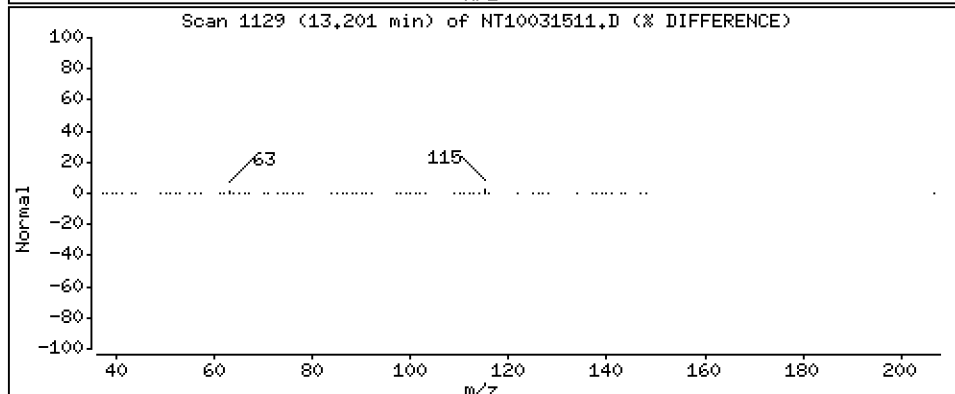
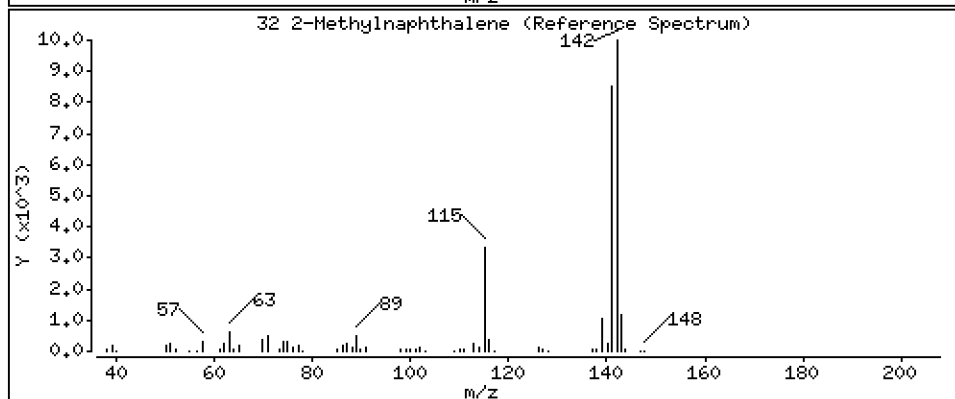
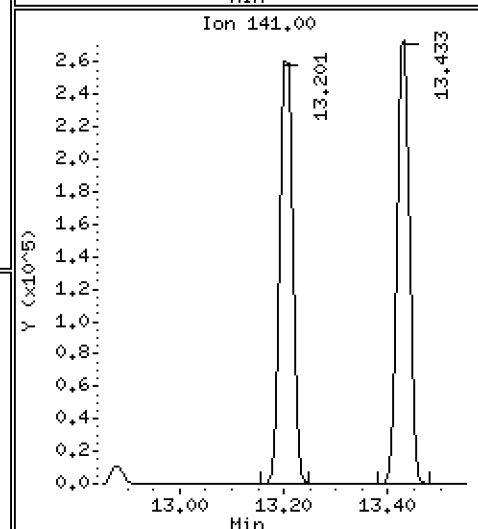
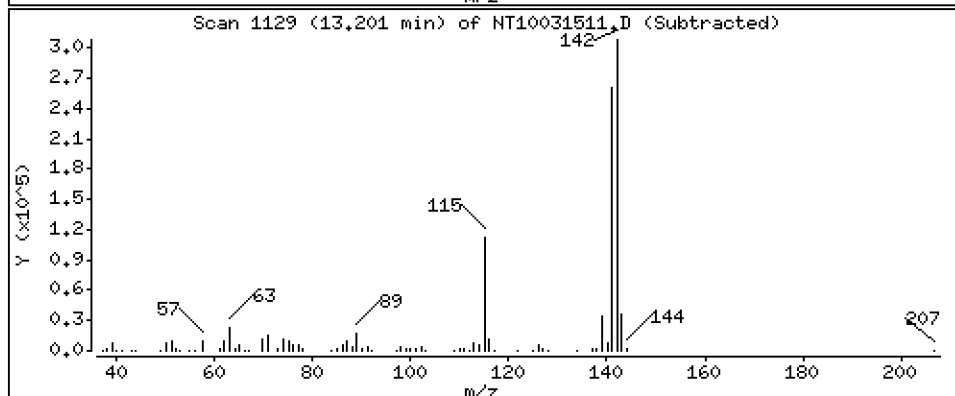
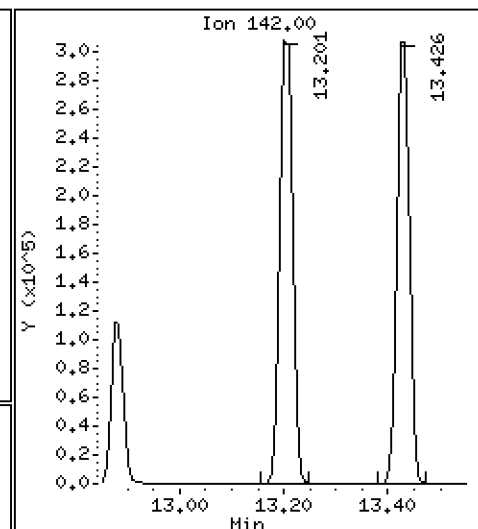
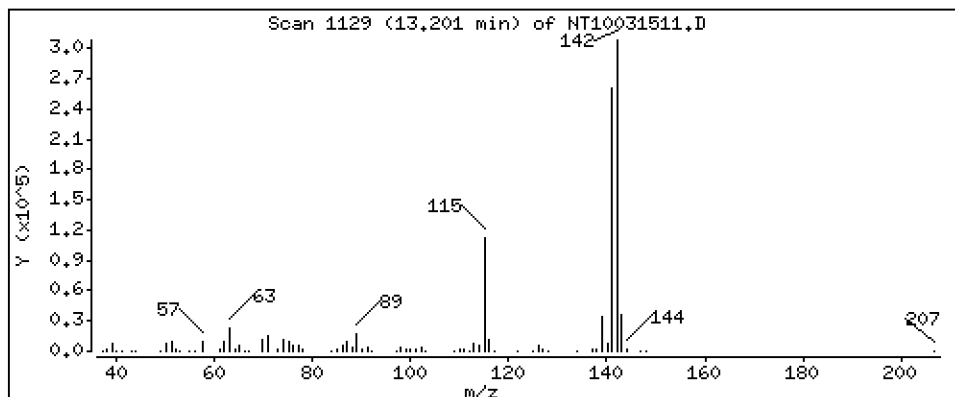
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,596 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

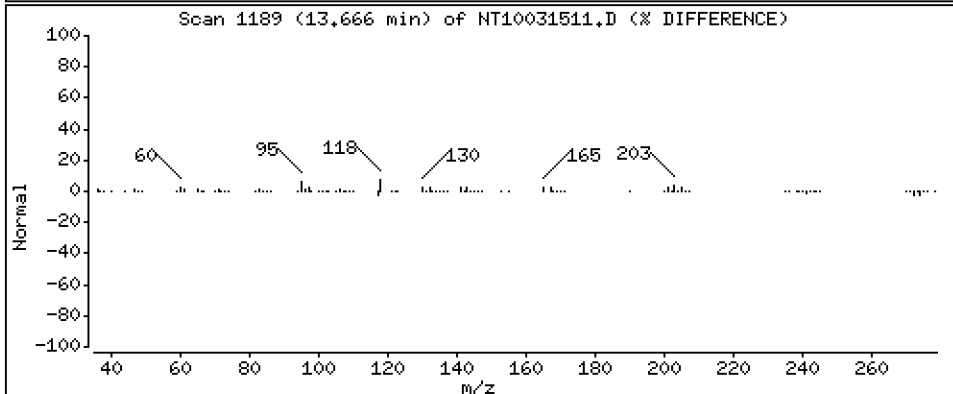
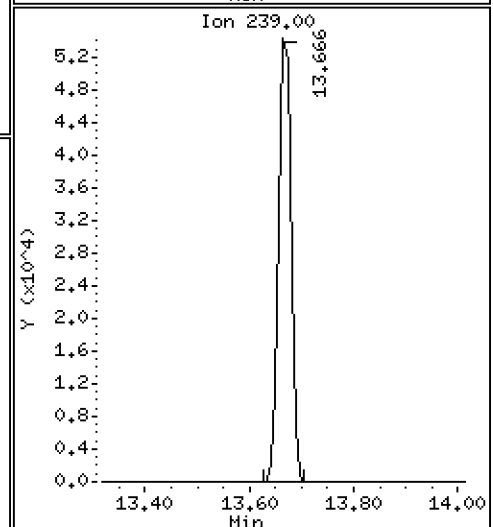
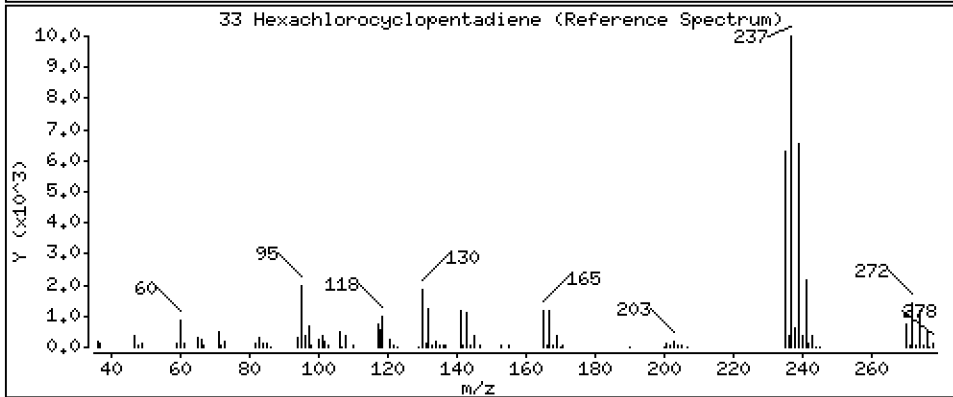
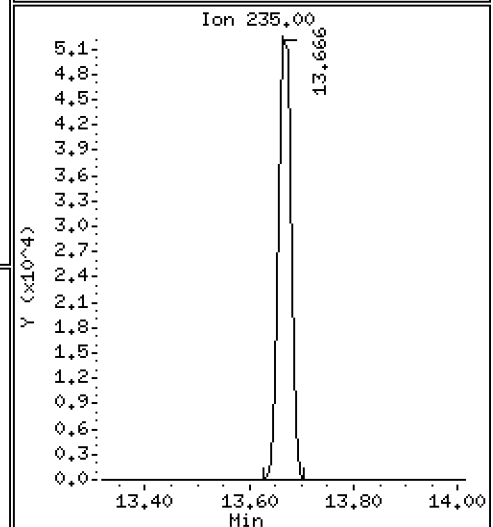
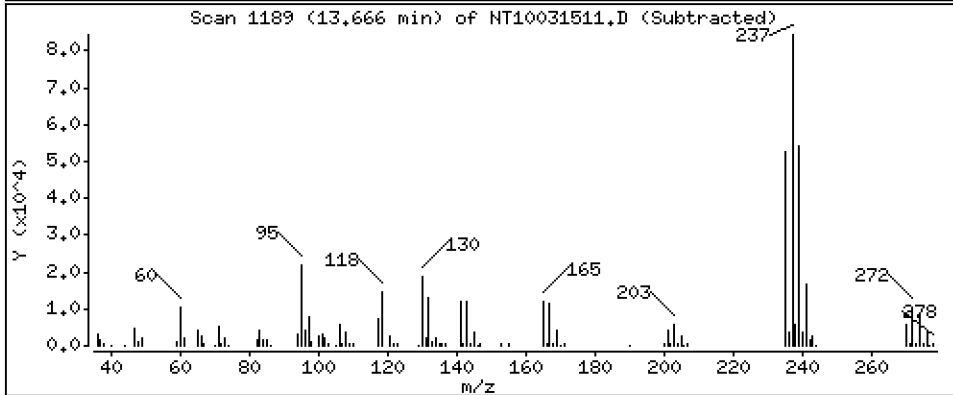
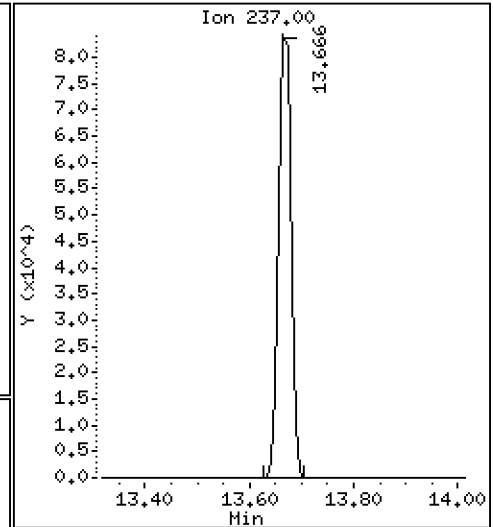
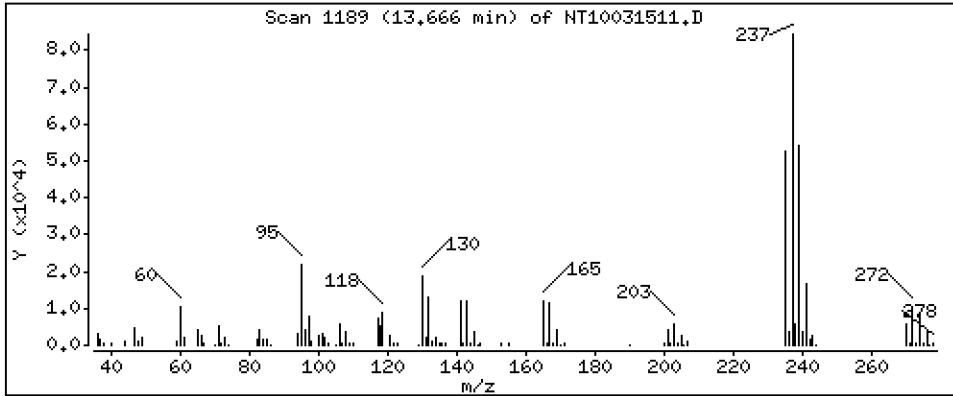
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

33 Hexachlorocyclopentadiene

Concentration: 4.729 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

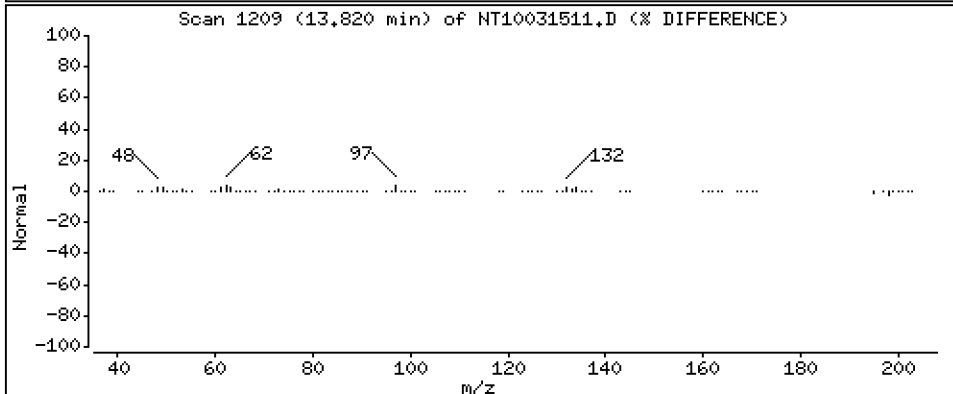
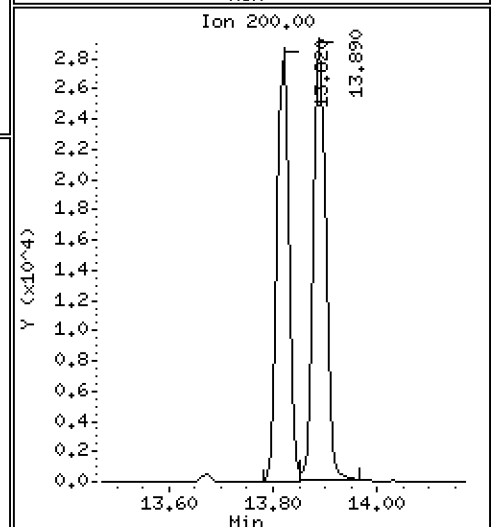
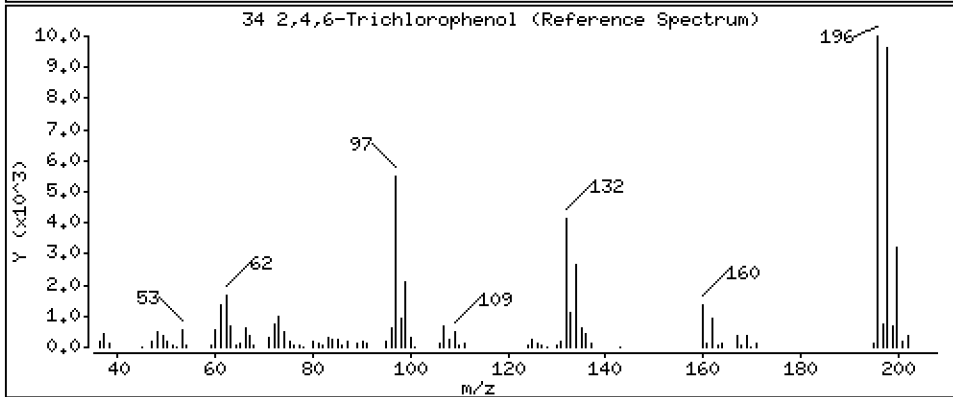
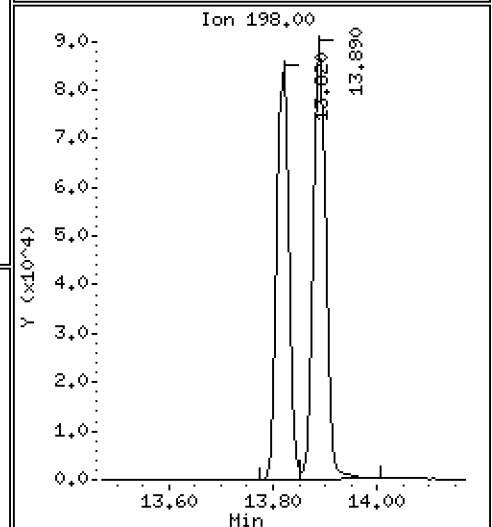
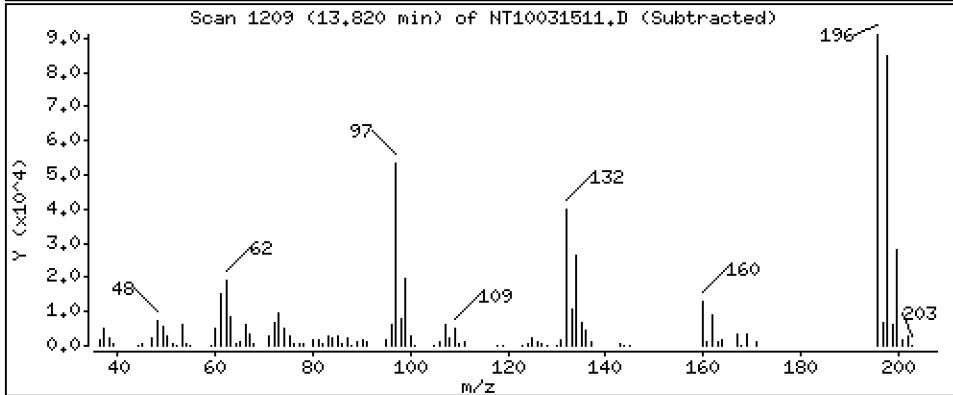
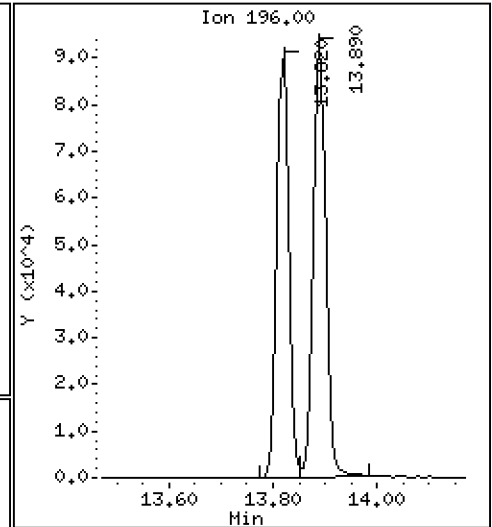
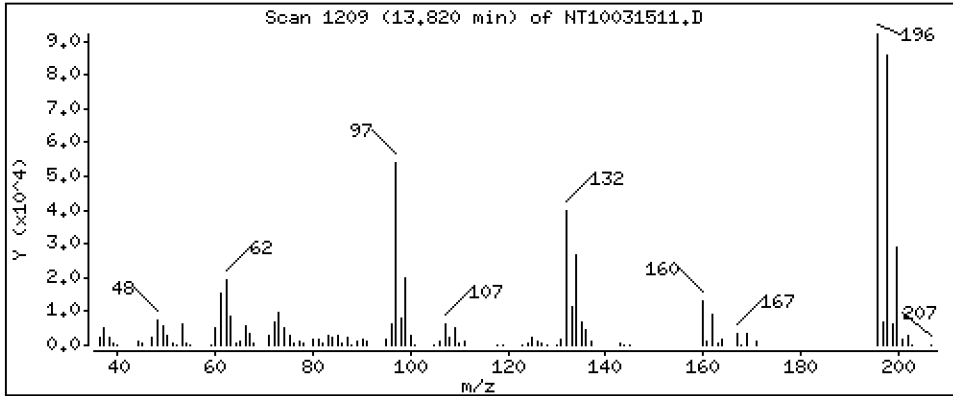
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 4,596 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

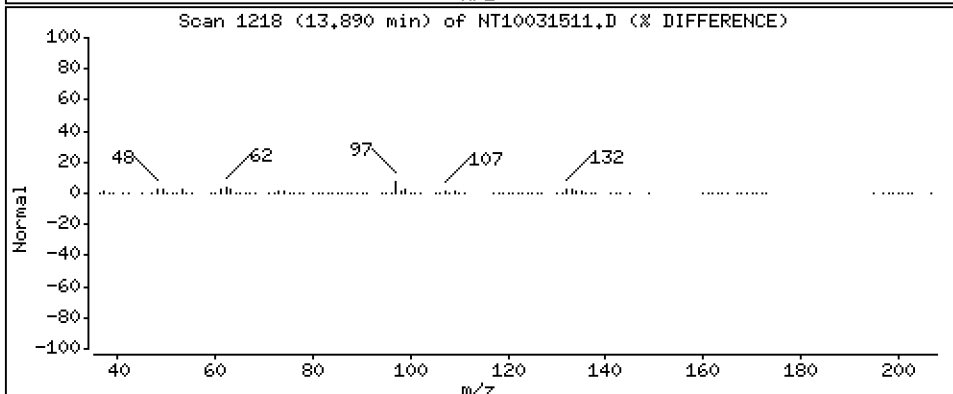
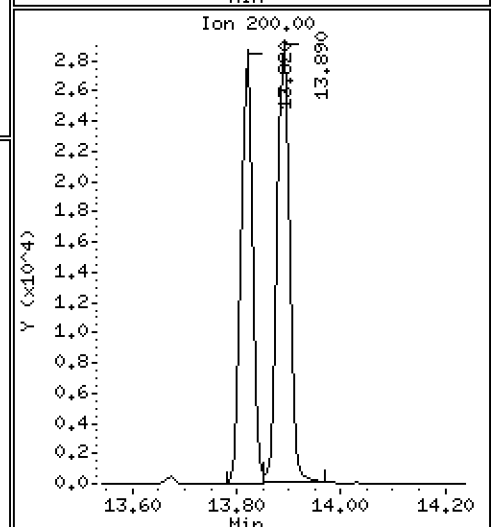
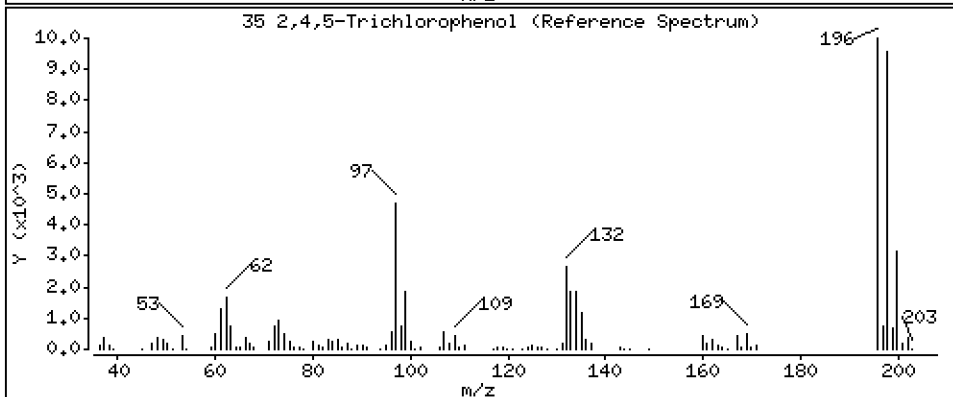
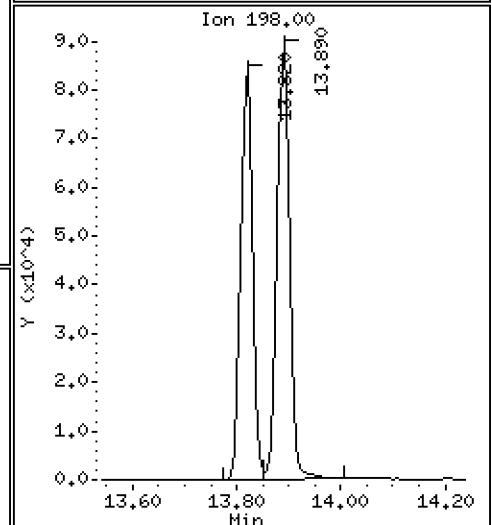
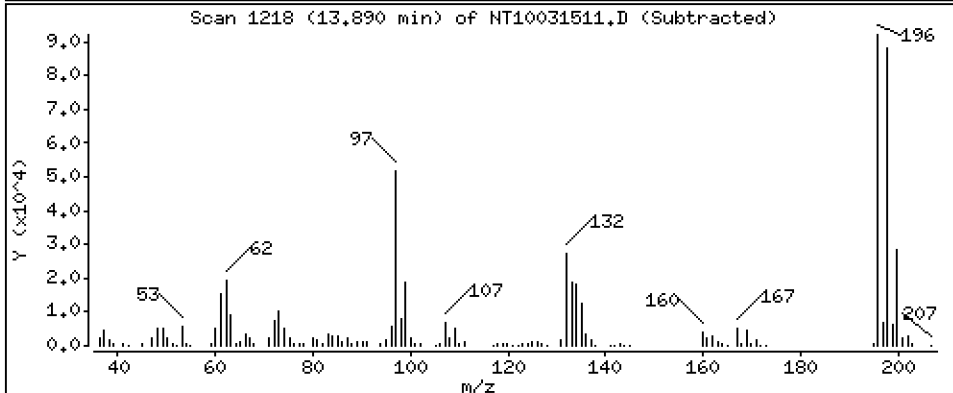
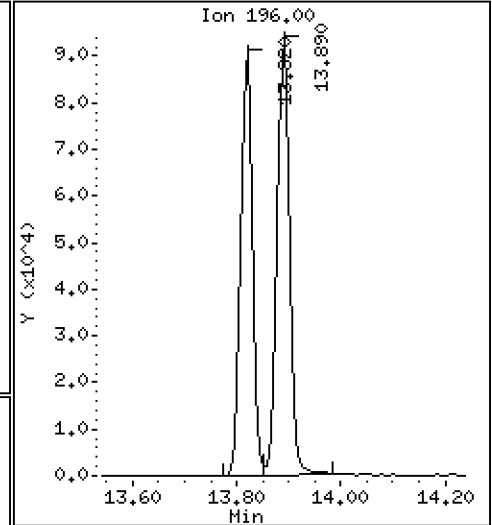
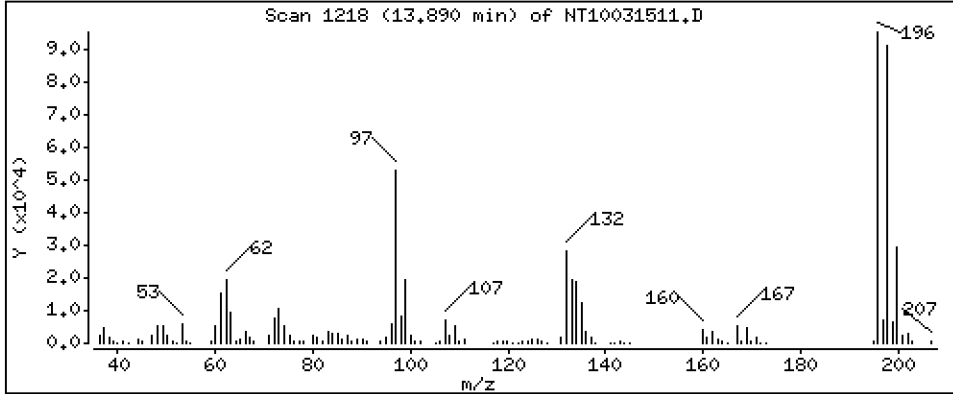
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 4,409 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

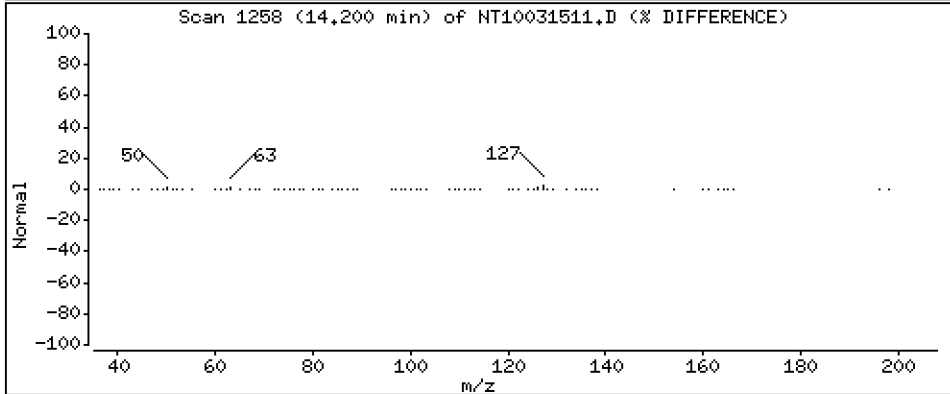
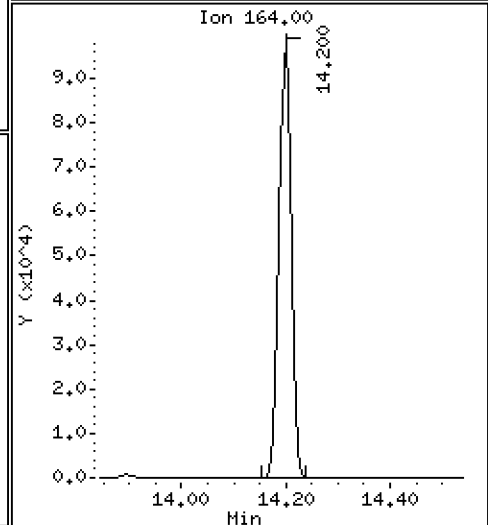
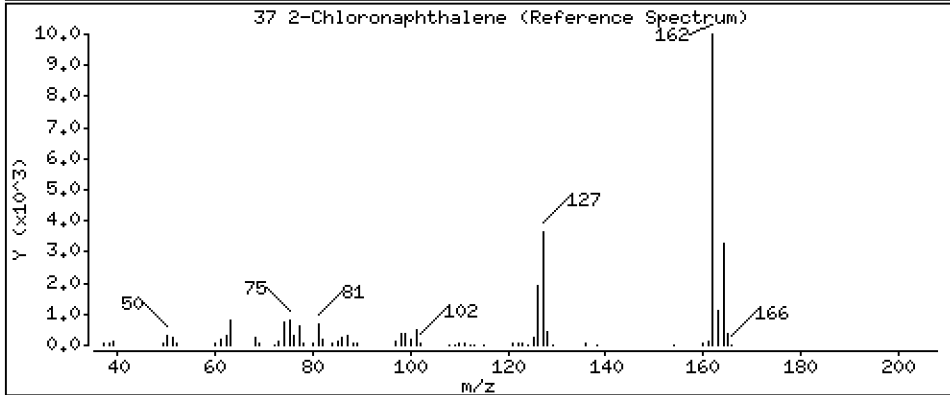
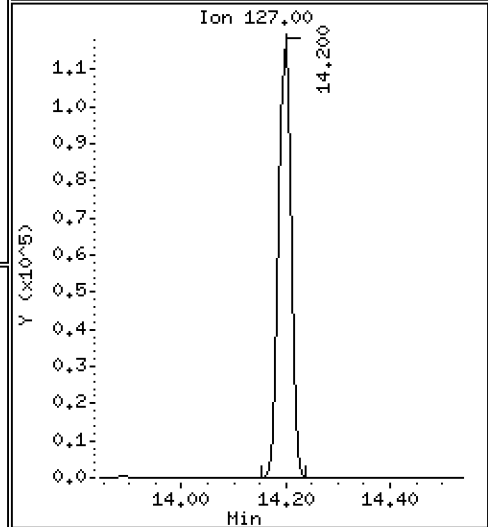
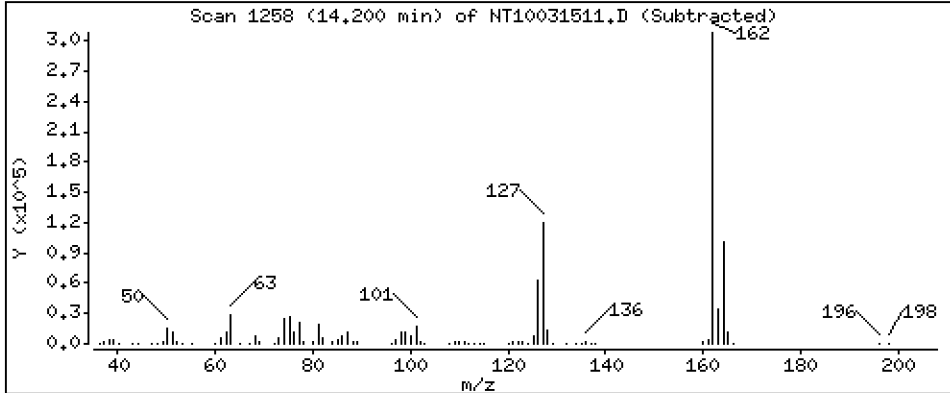
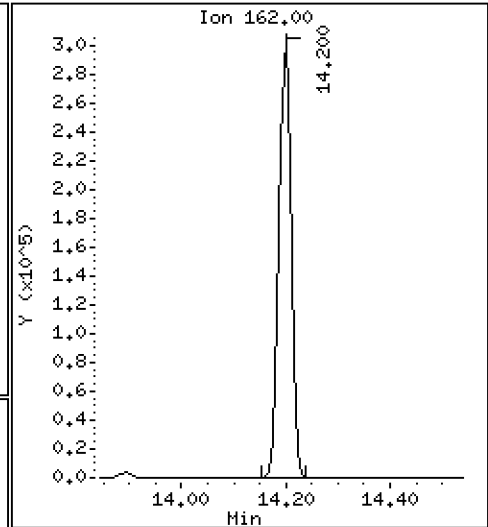
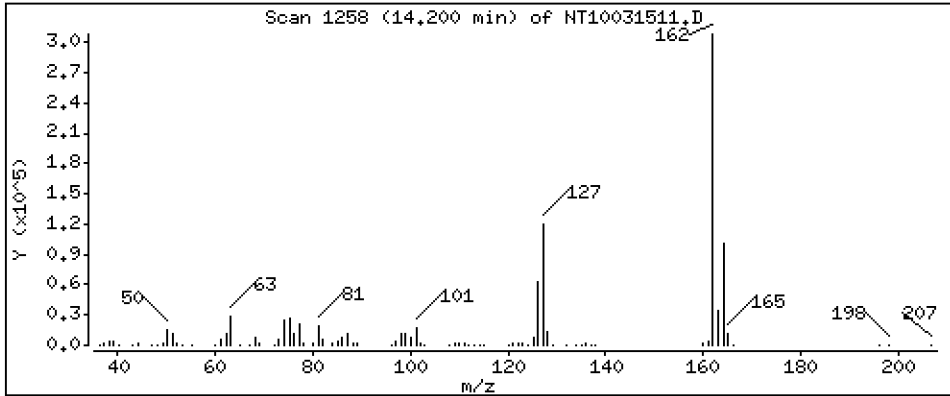
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,796 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

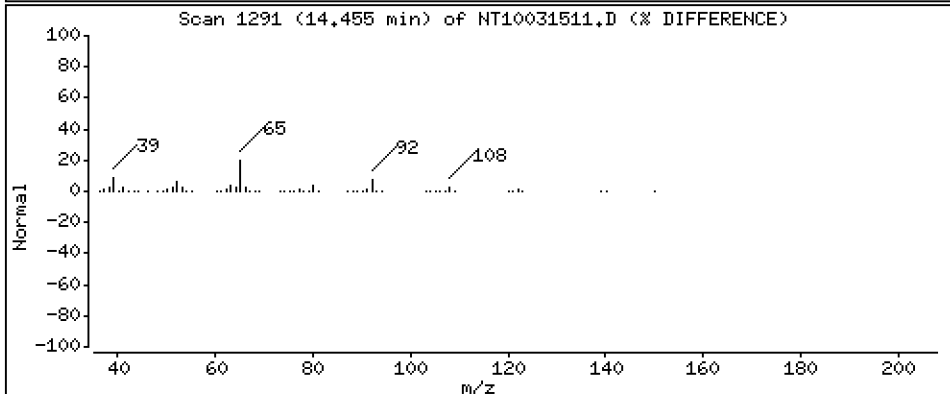
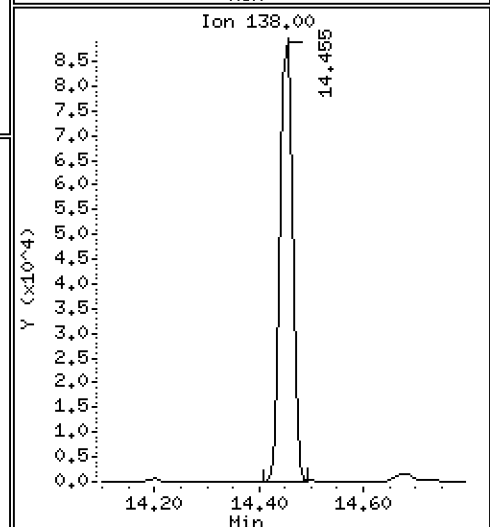
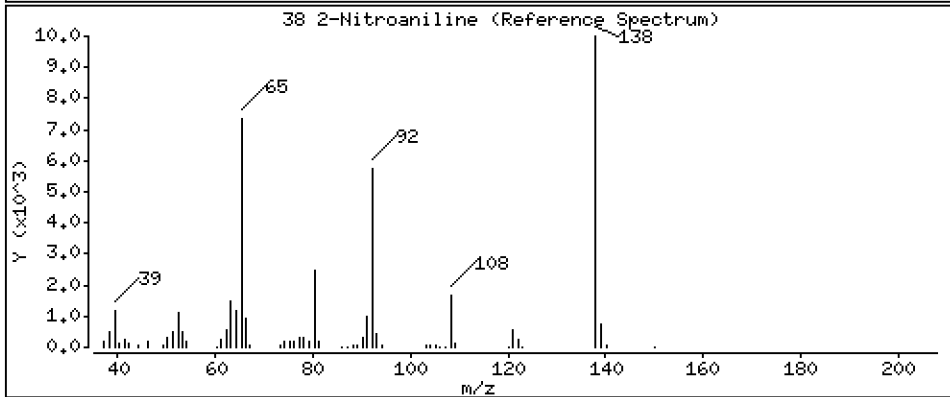
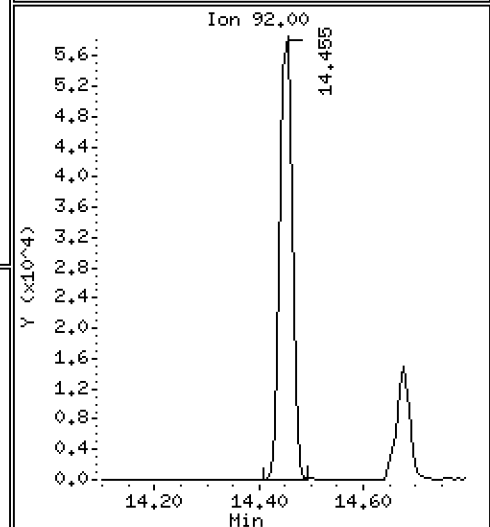
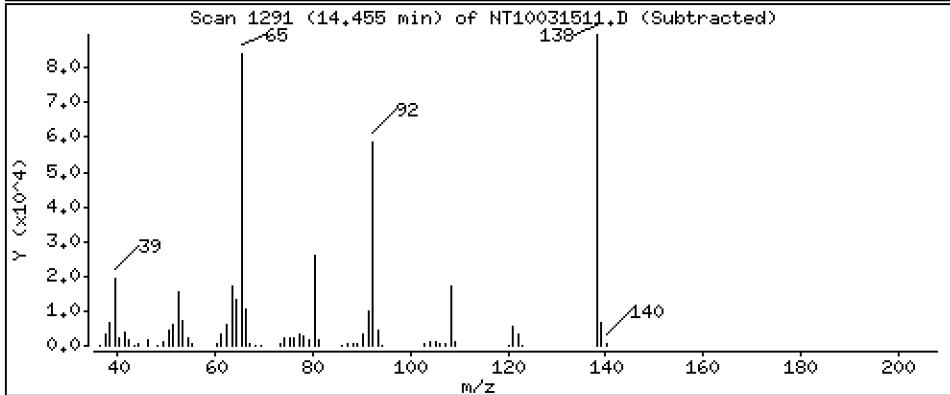
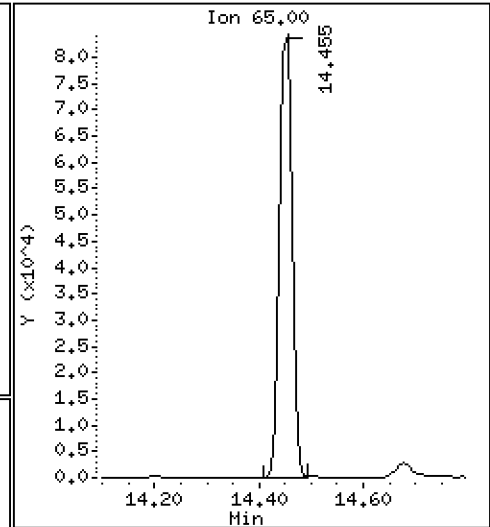
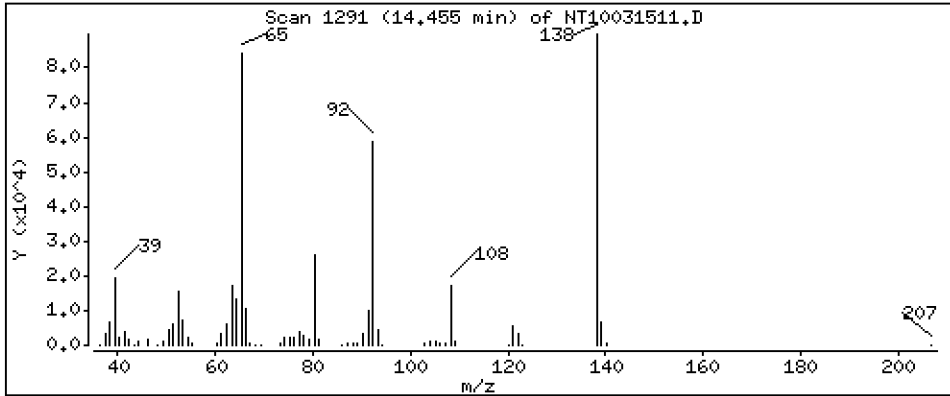
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 4,911 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

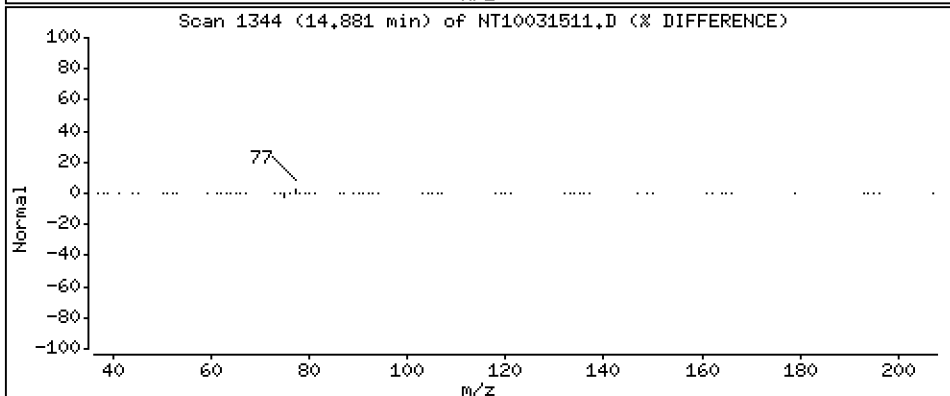
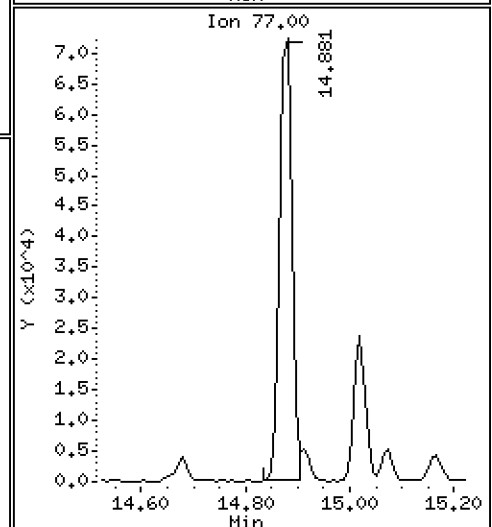
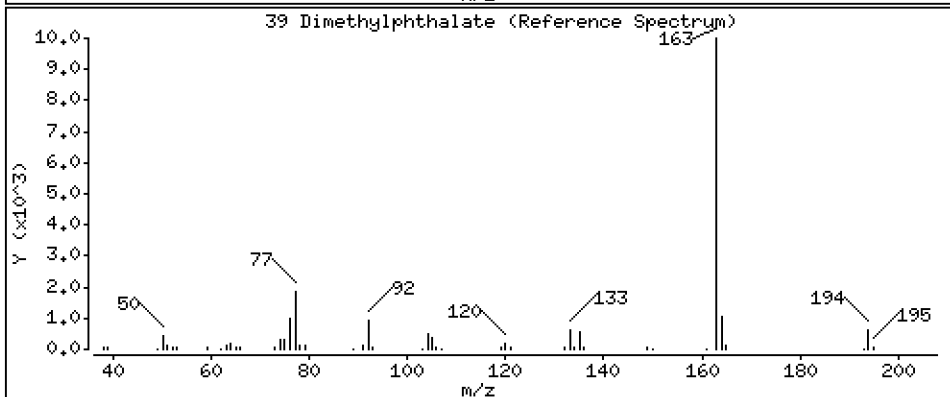
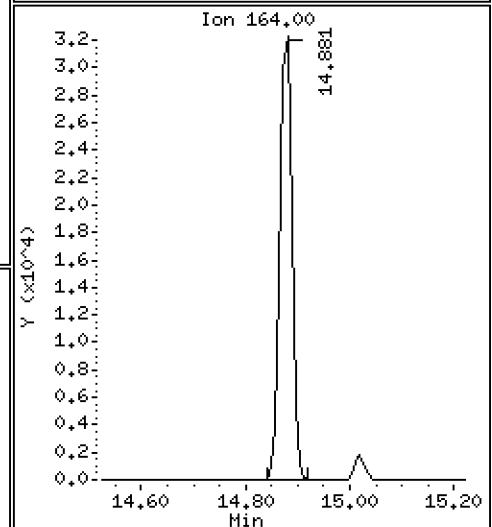
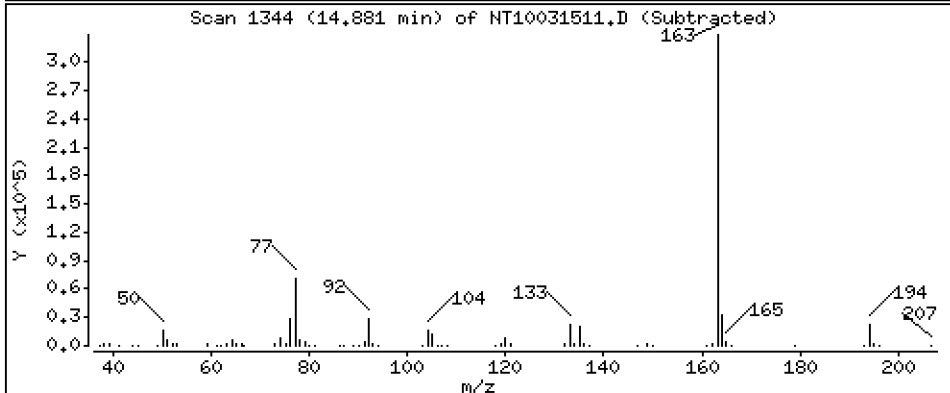
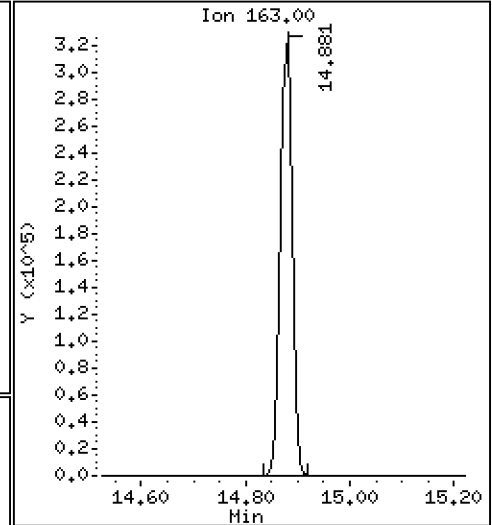
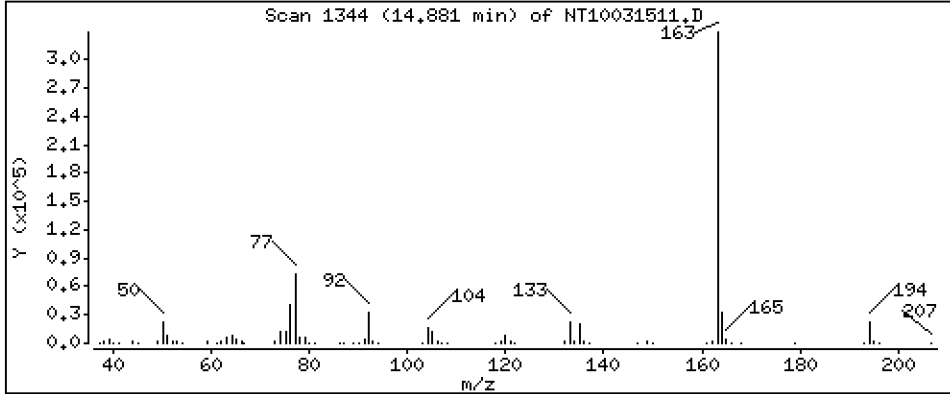
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,937 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

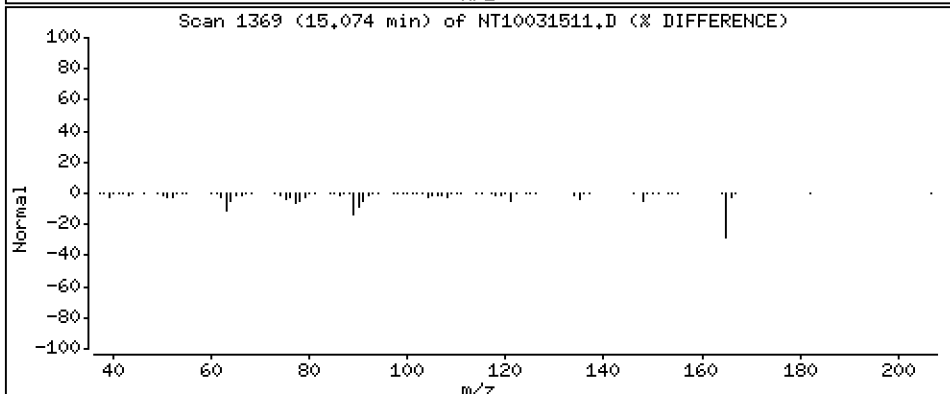
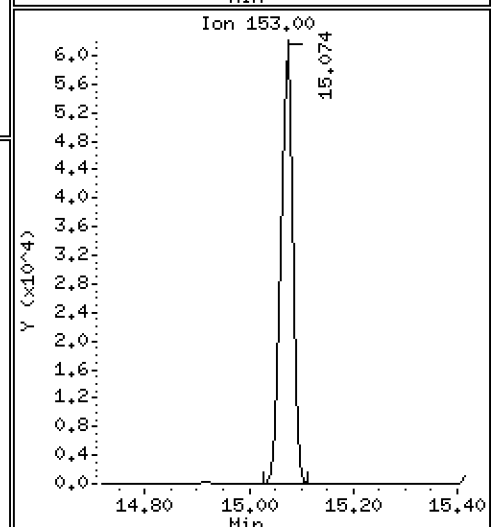
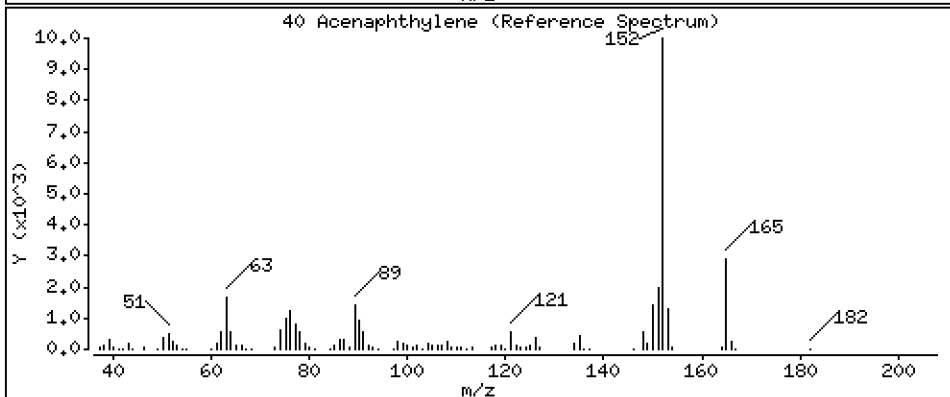
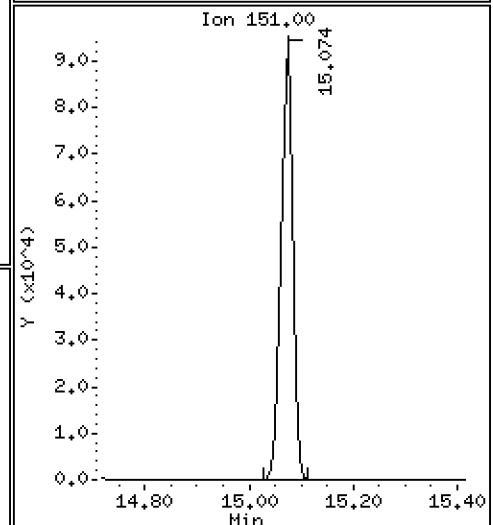
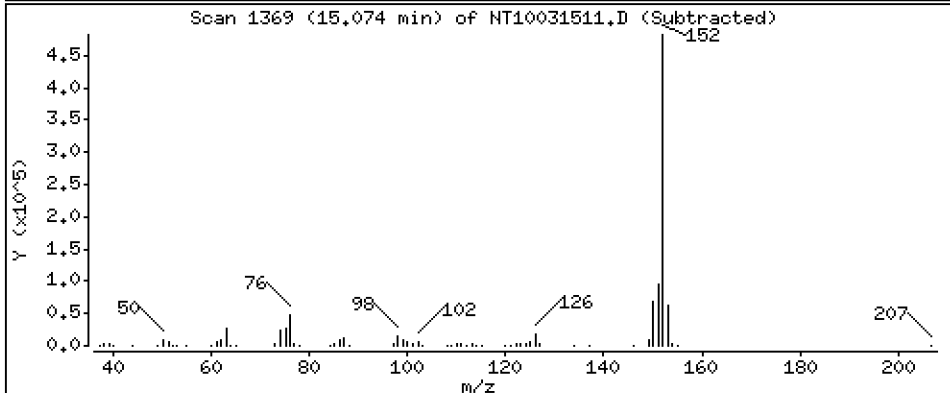
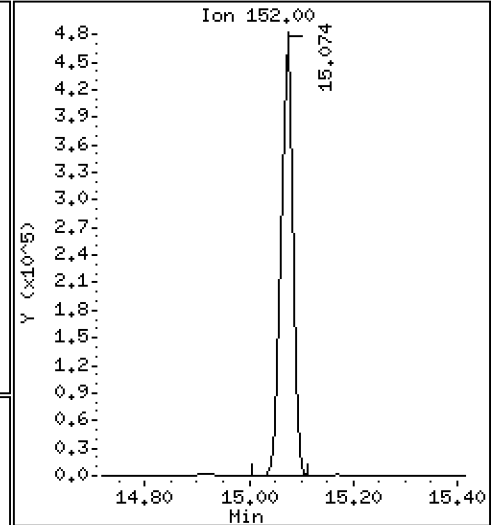
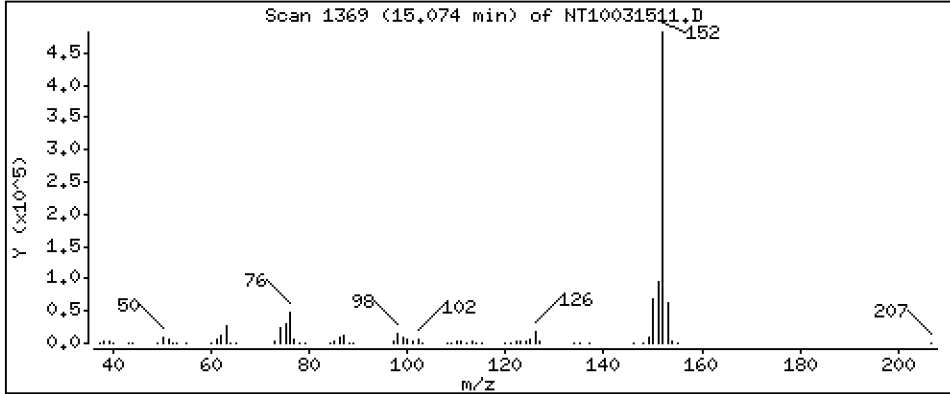
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,805 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

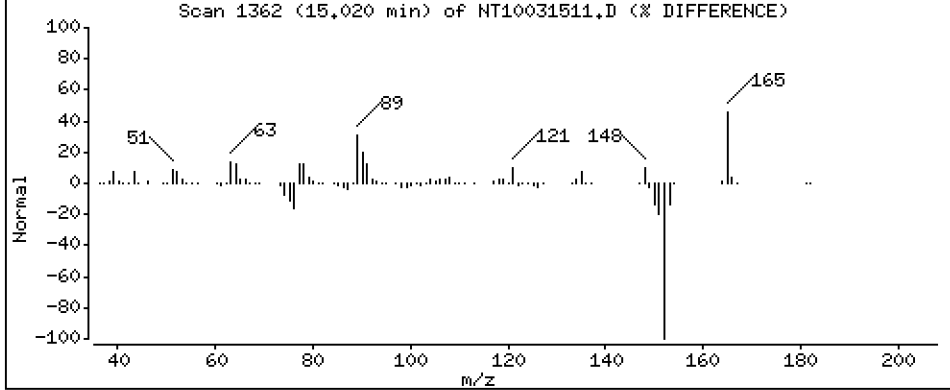
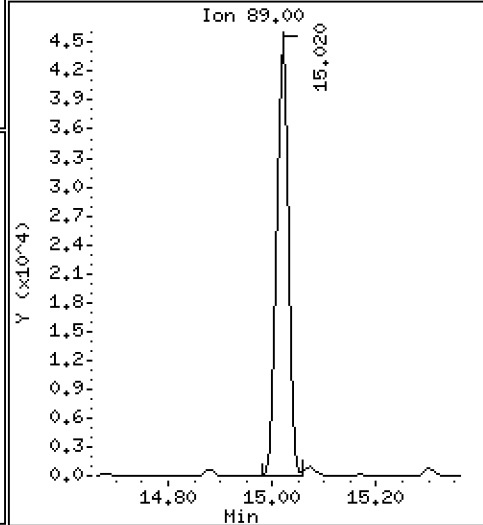
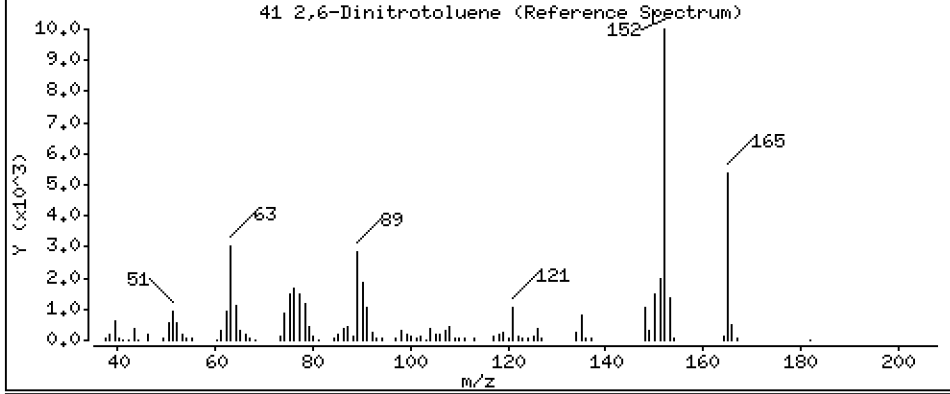
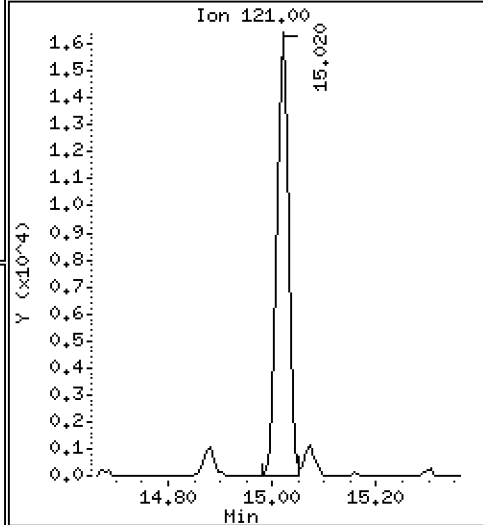
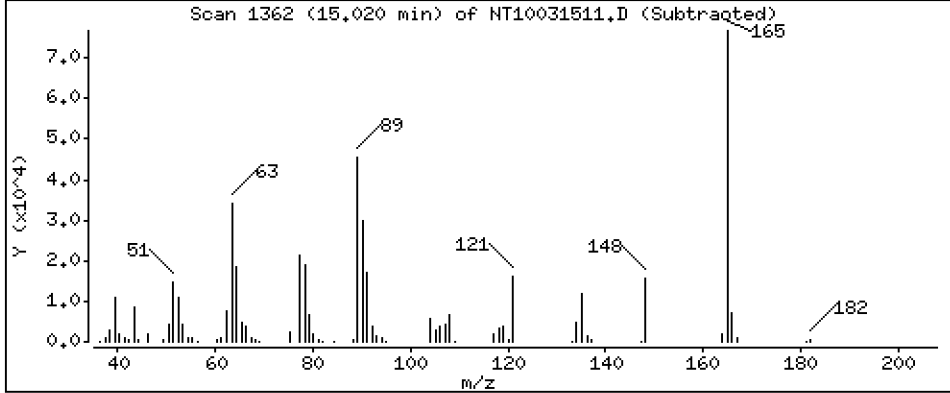
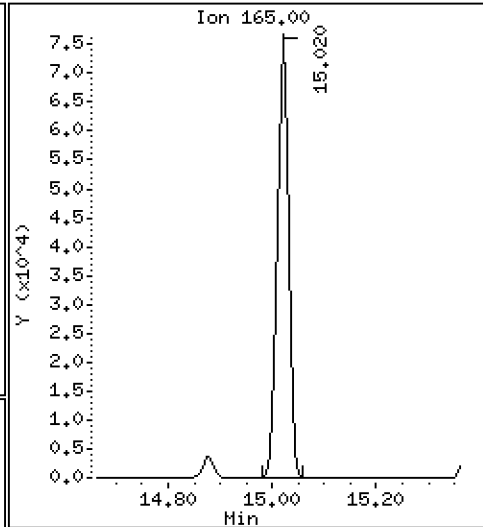
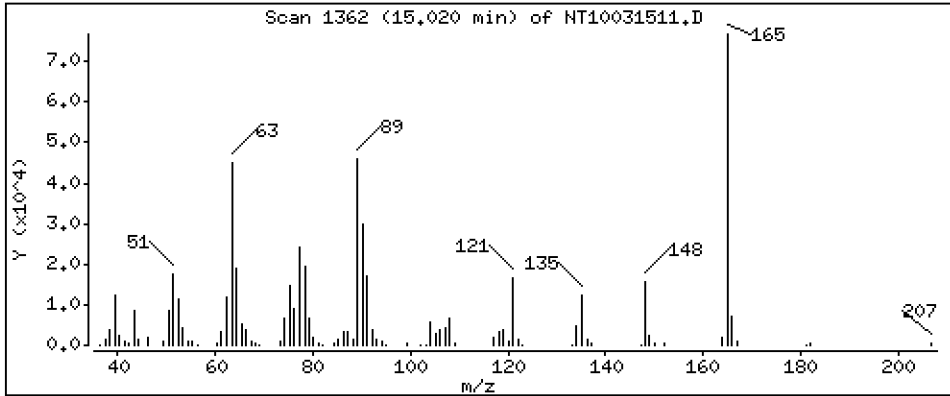
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 5,298 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

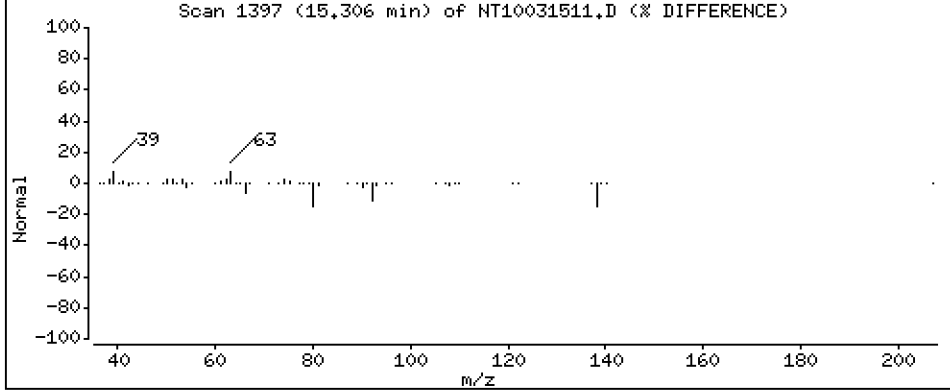
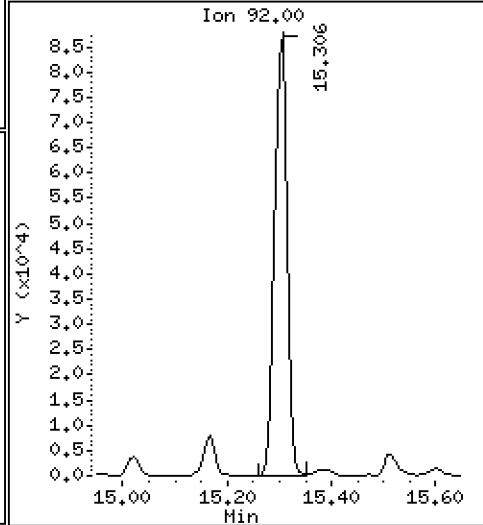
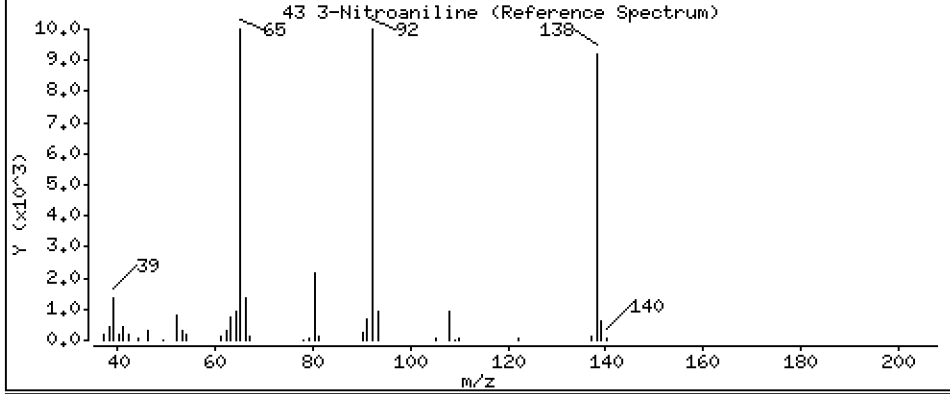
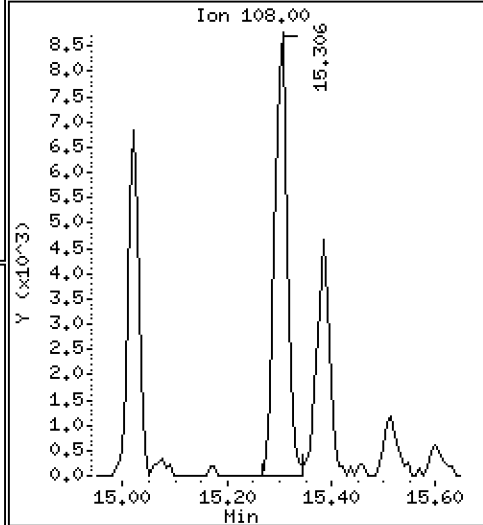
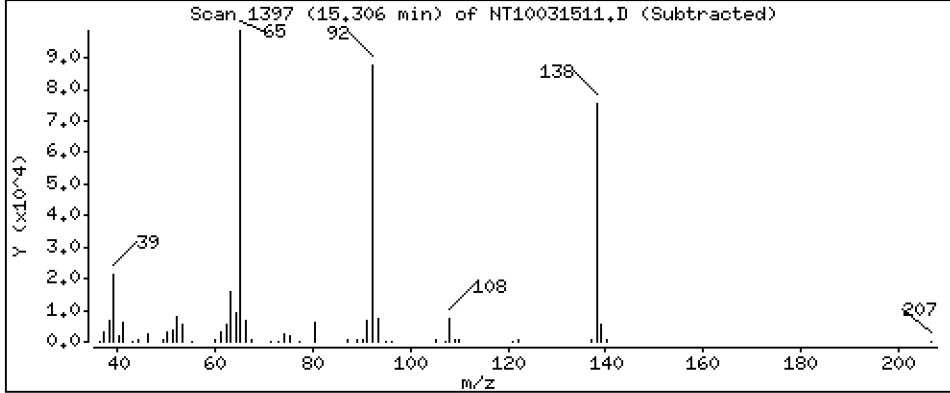
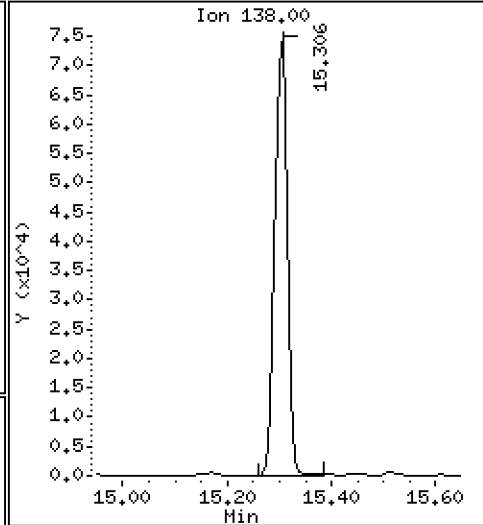
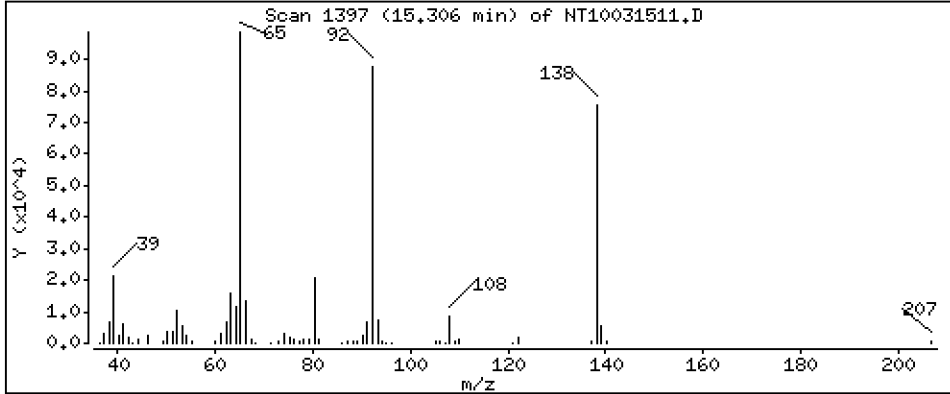
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 5,014 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

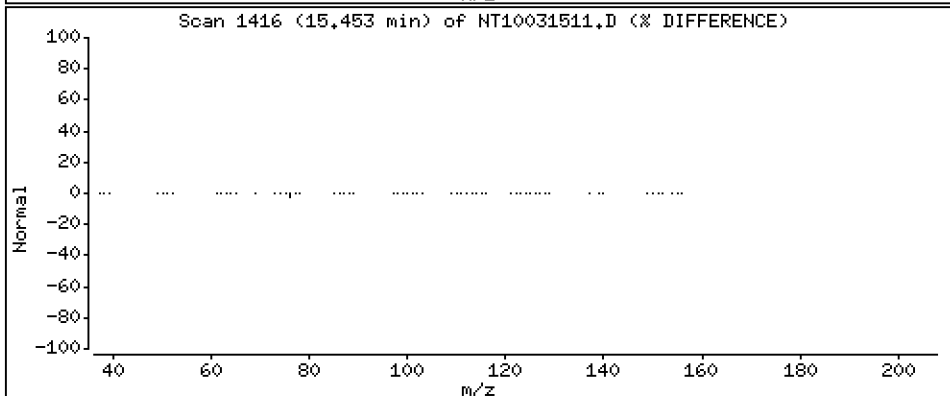
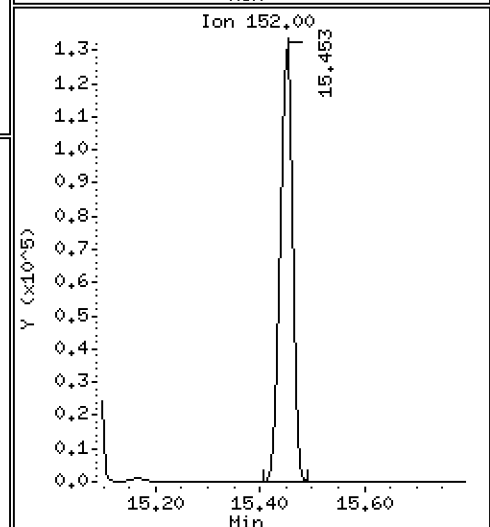
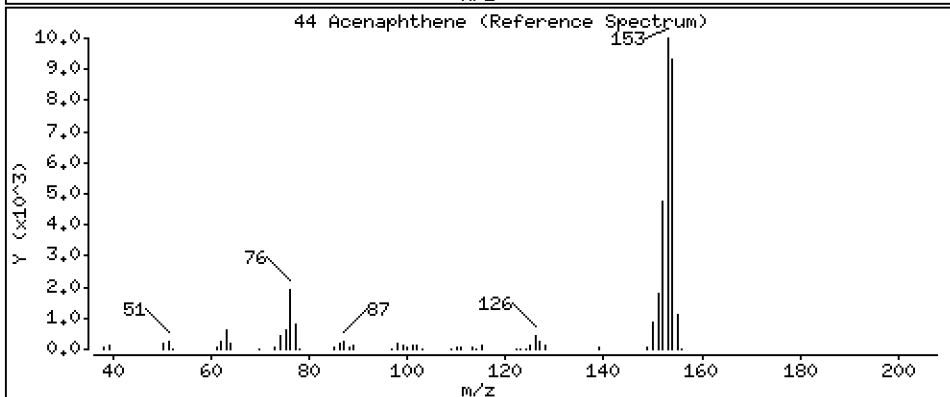
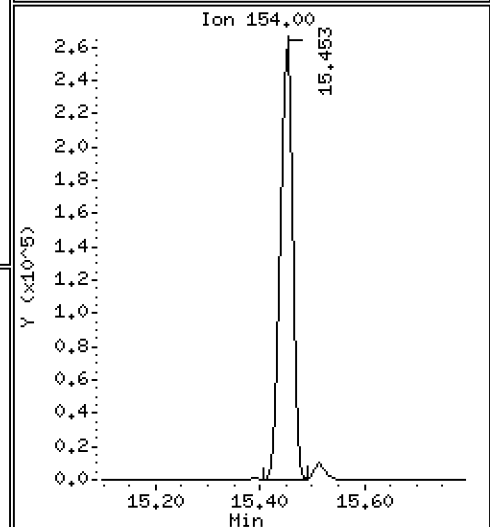
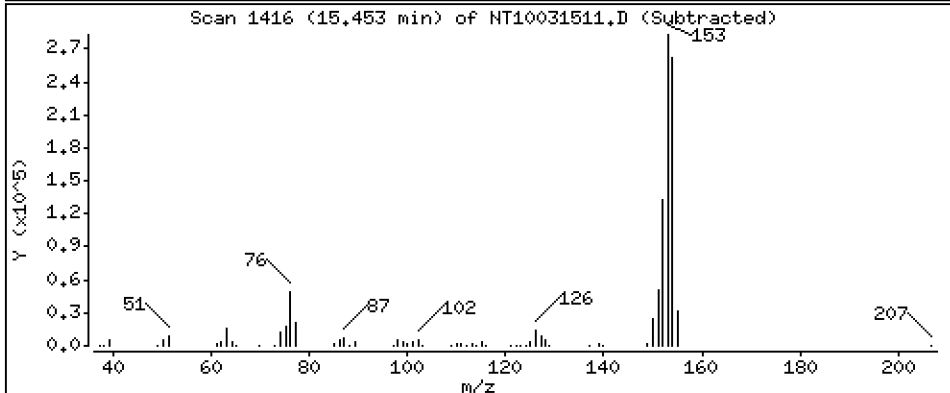
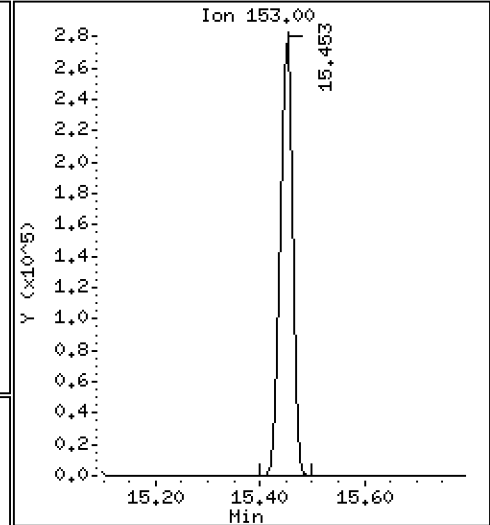
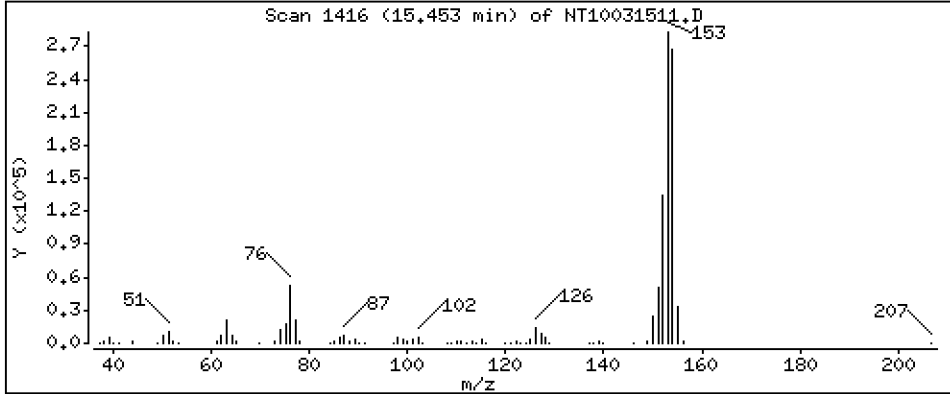
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,776 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

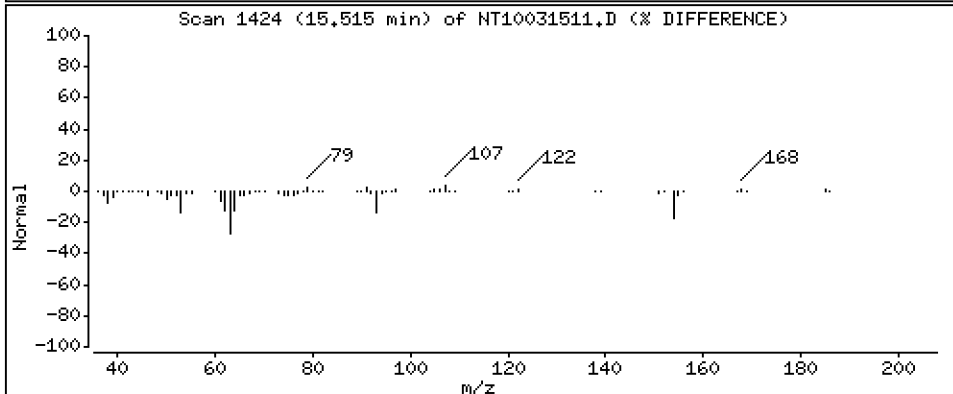
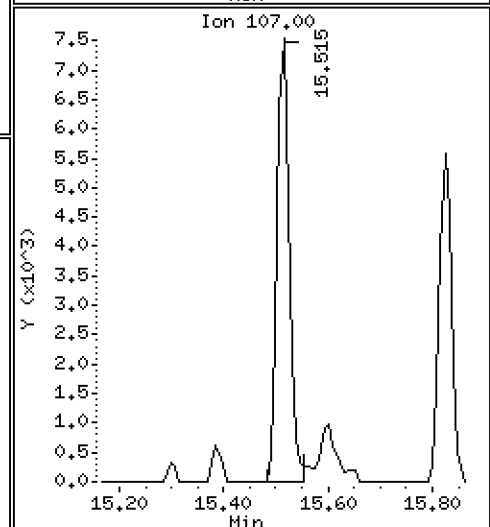
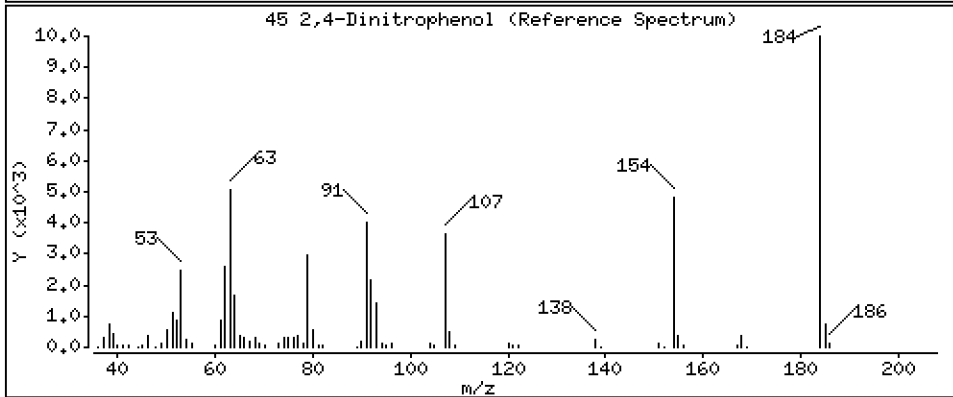
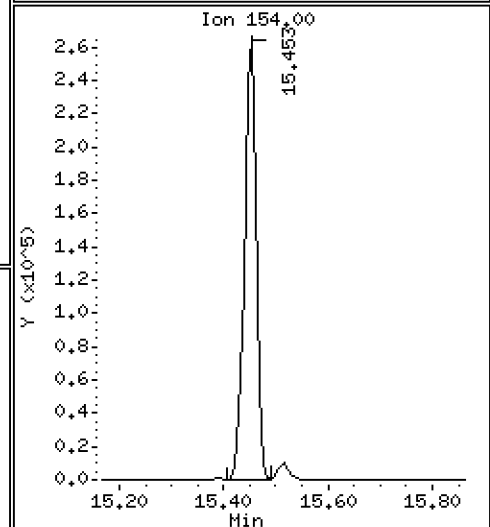
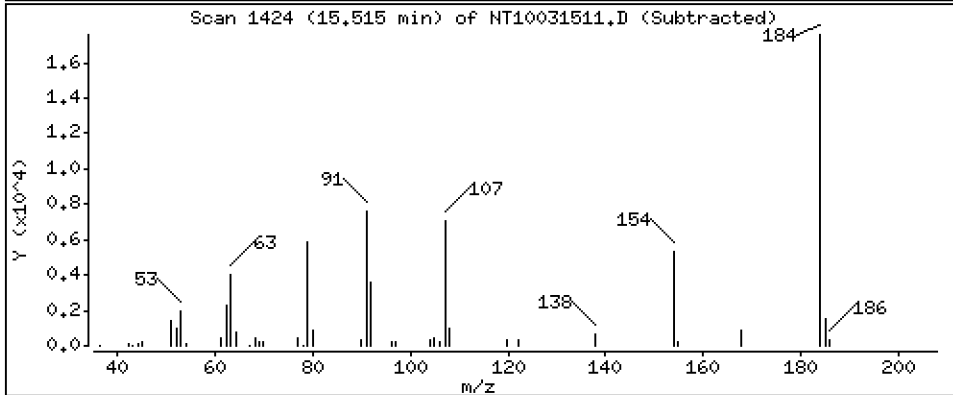
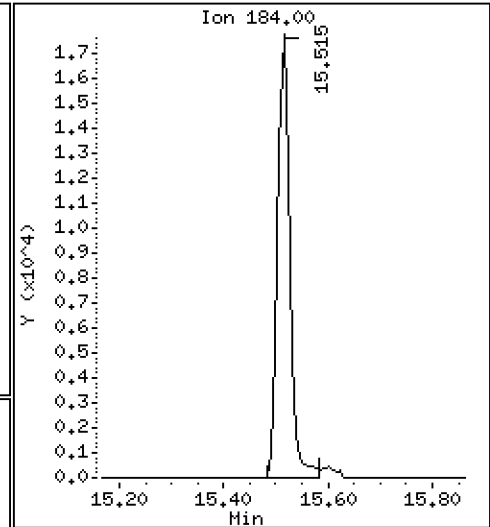
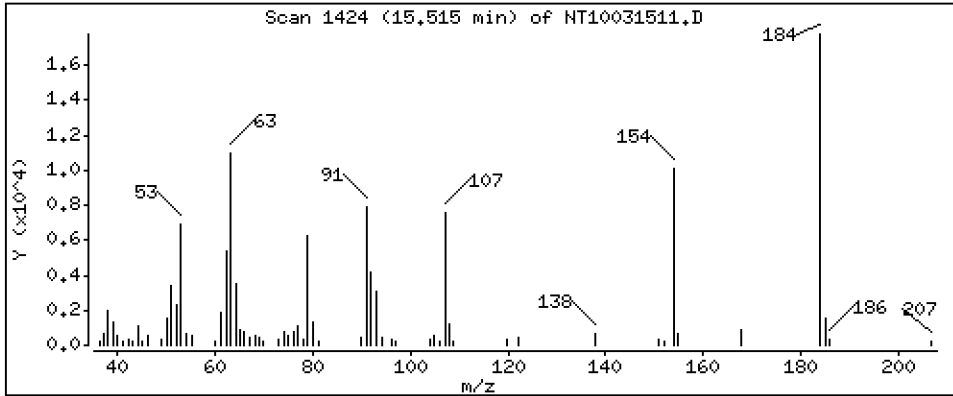
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 2,124 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

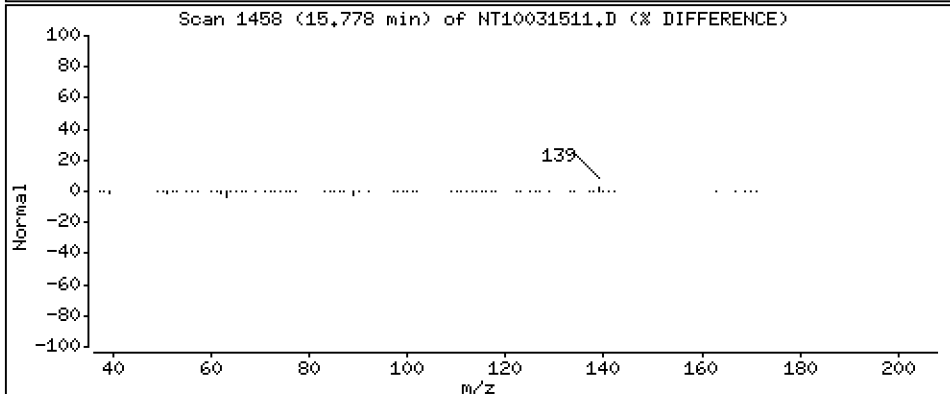
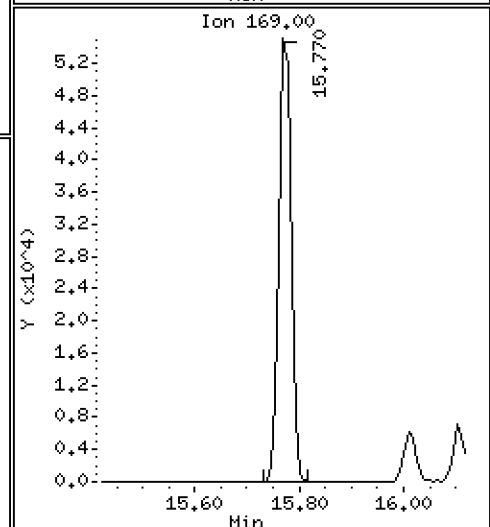
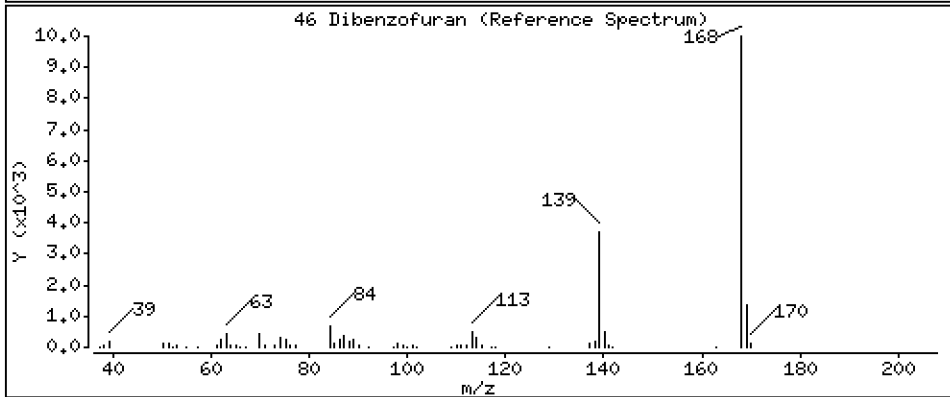
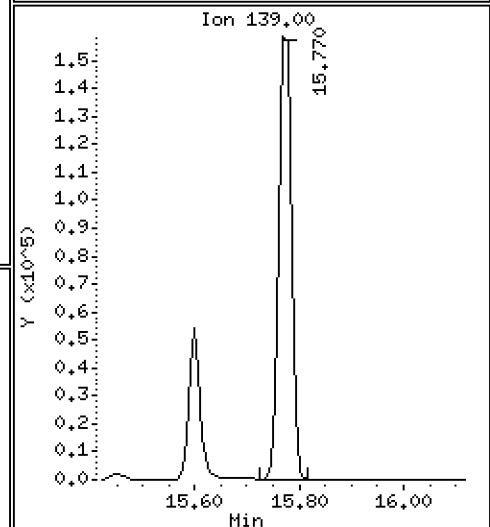
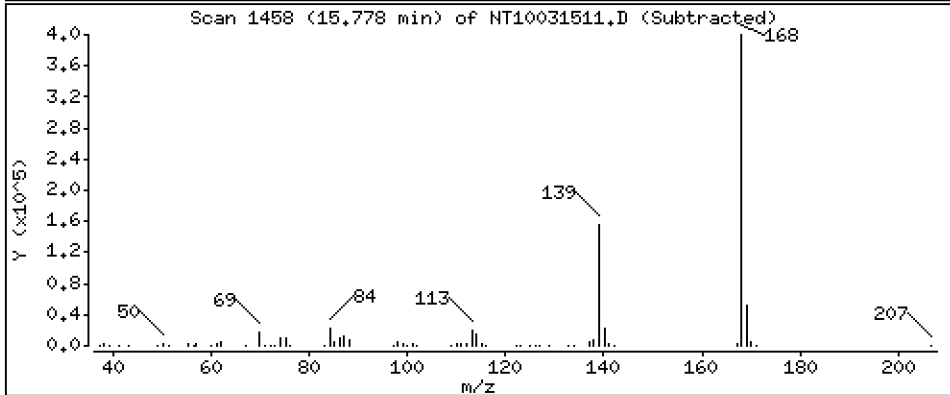
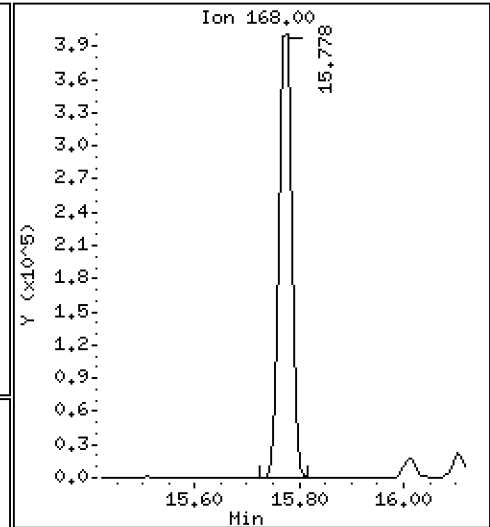
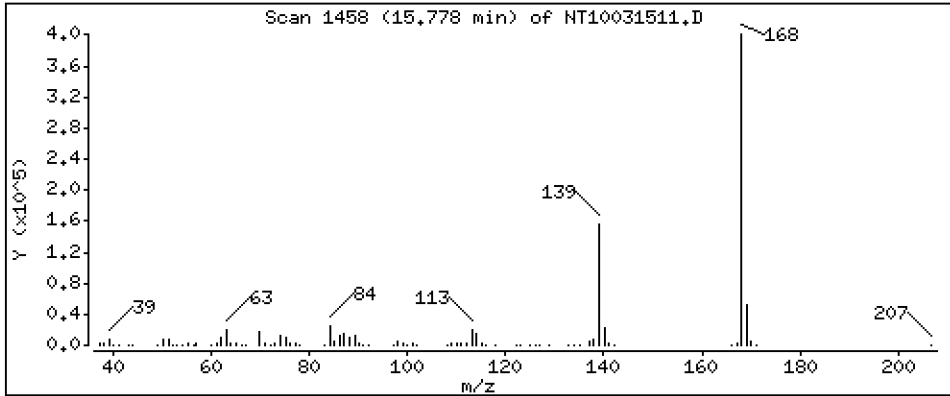
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,648 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

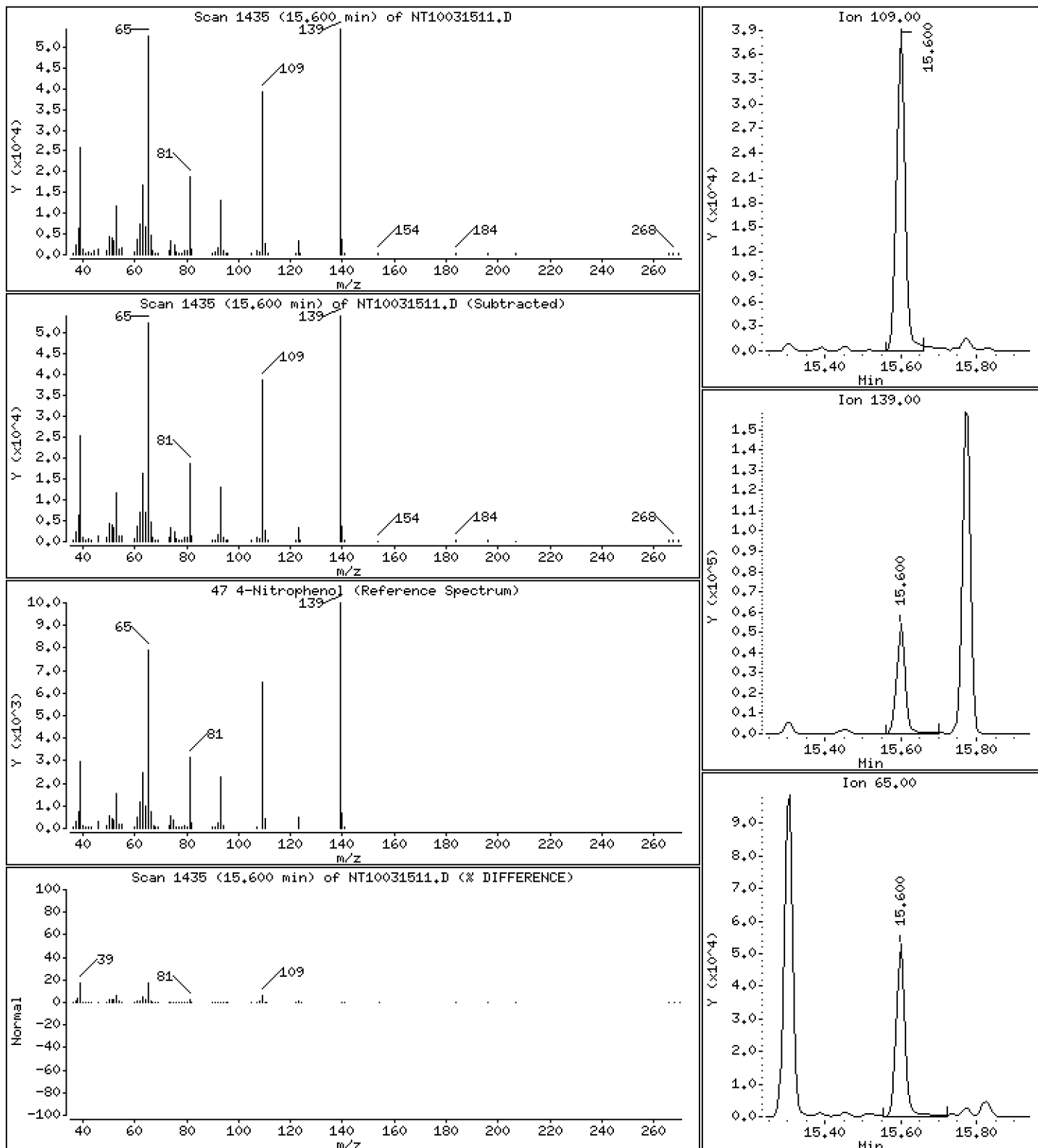
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 3,966 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

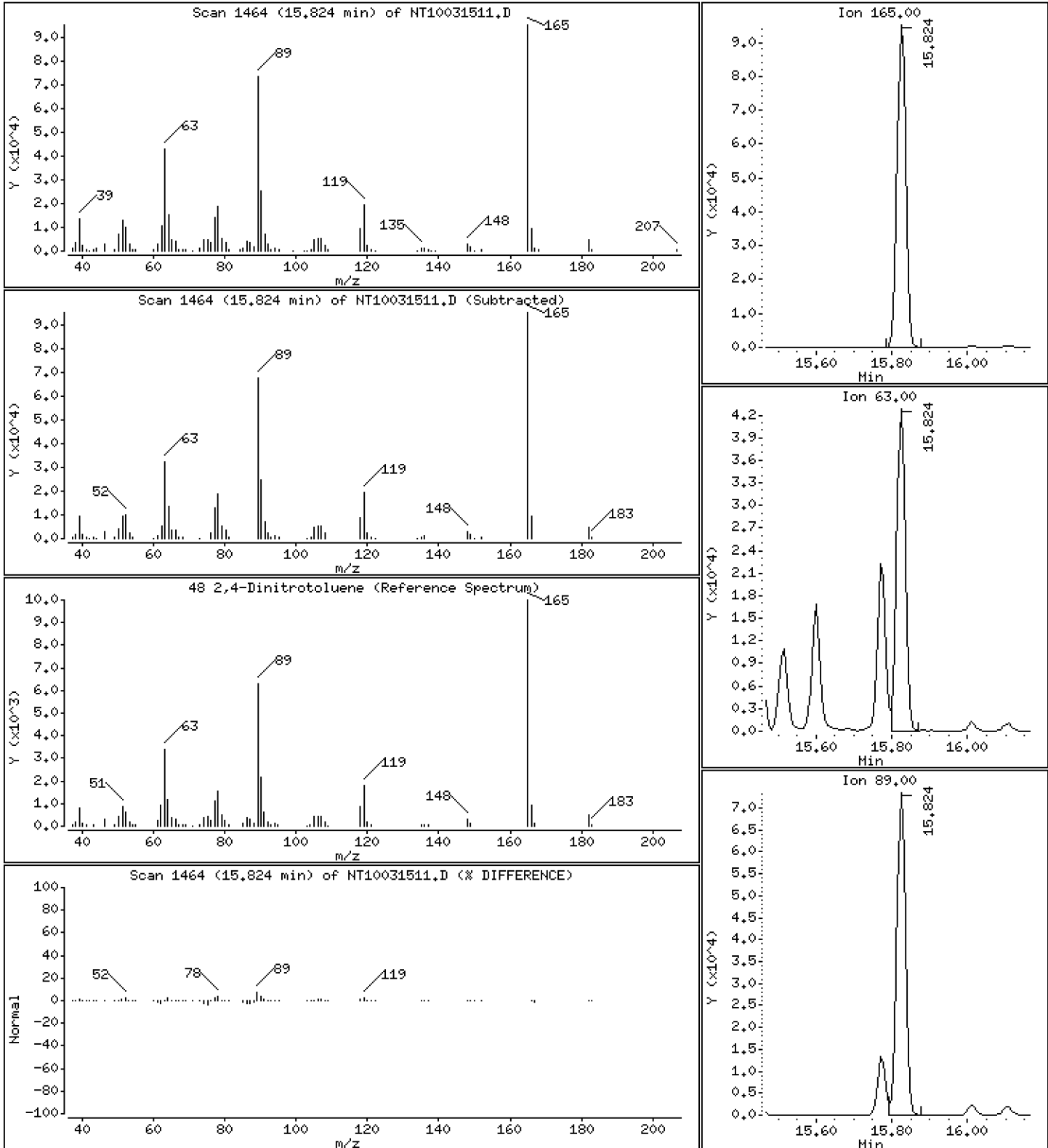
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 4,510 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

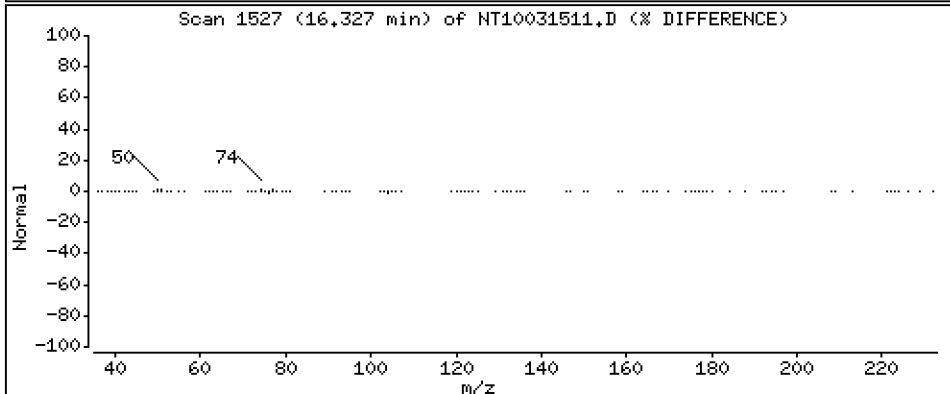
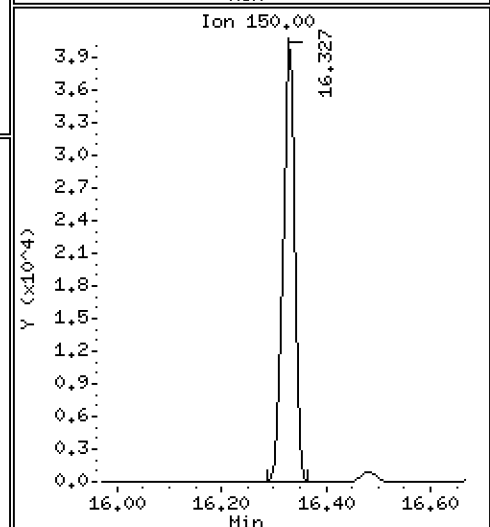
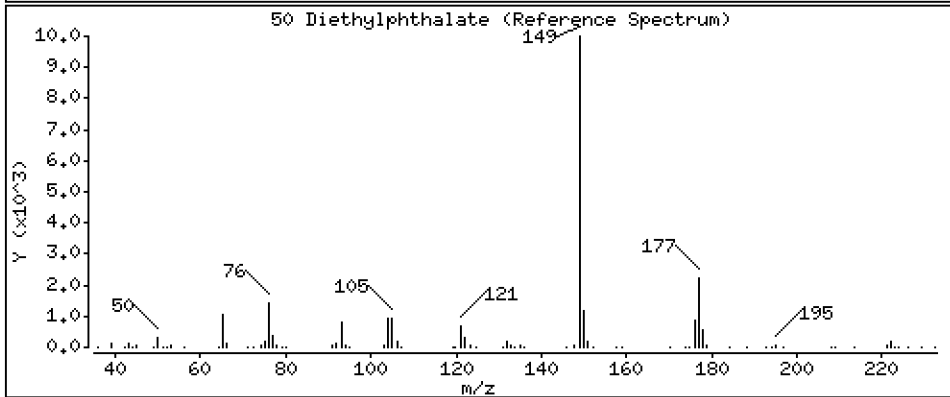
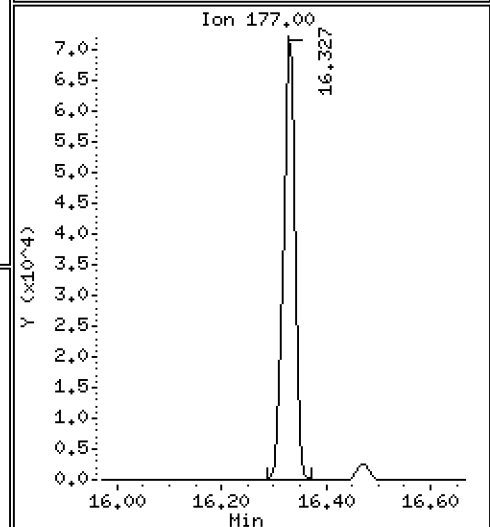
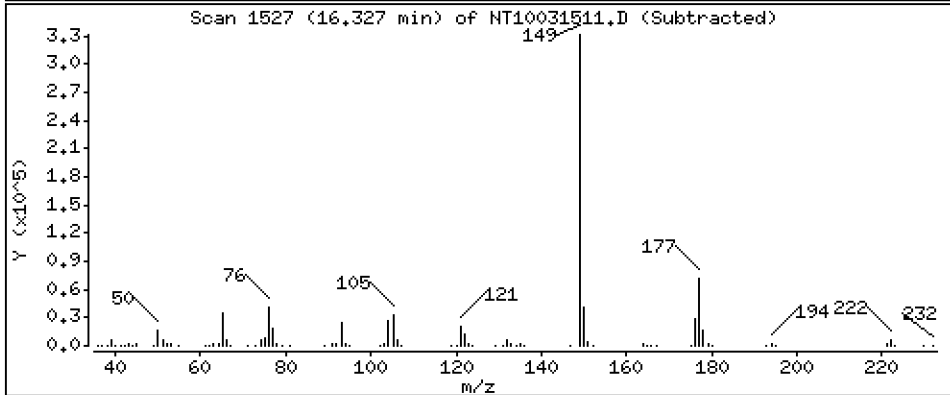
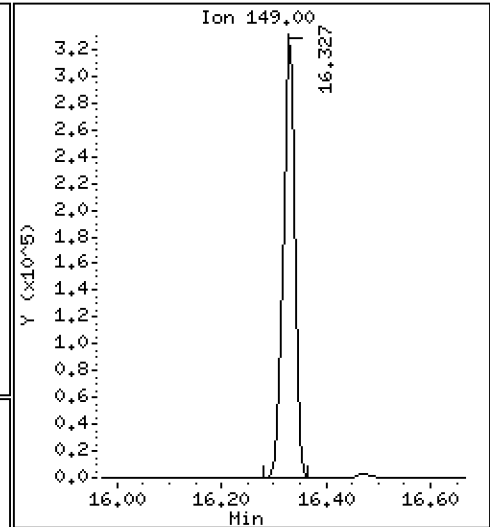
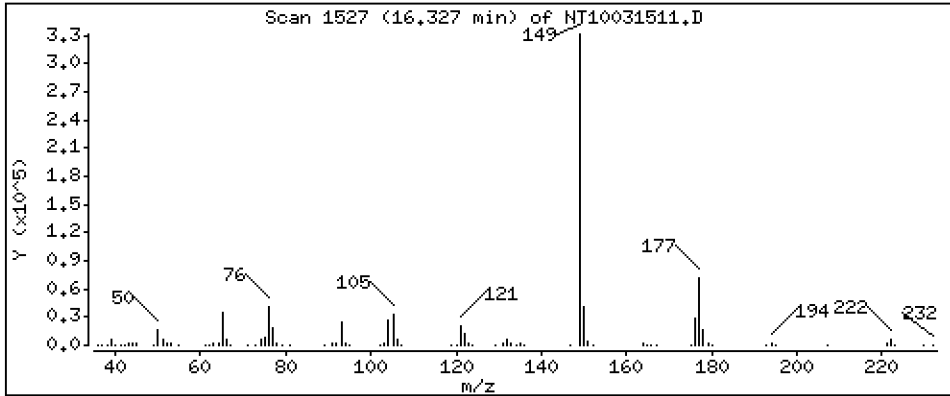
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,209 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

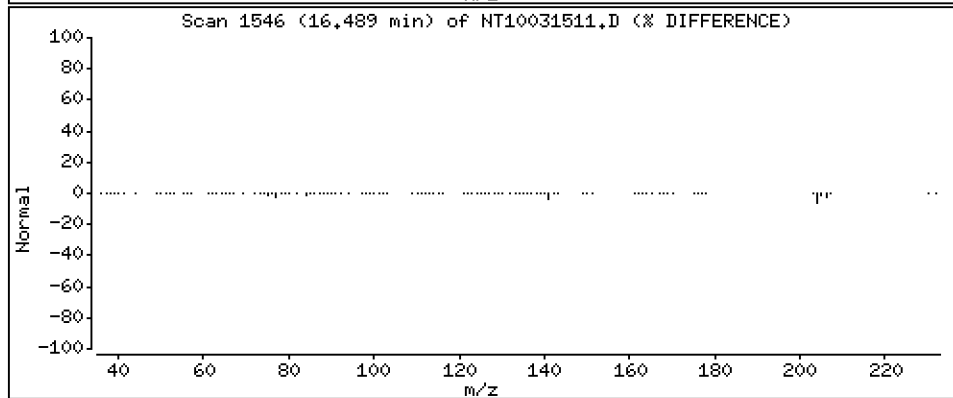
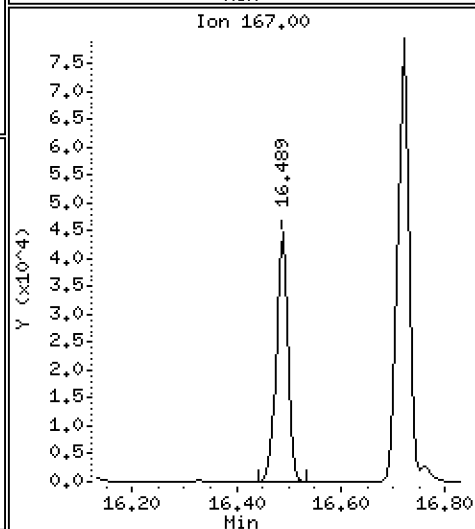
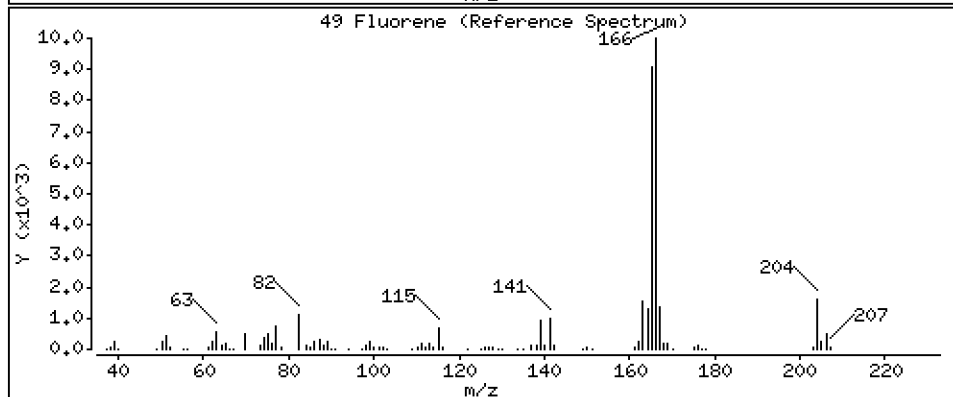
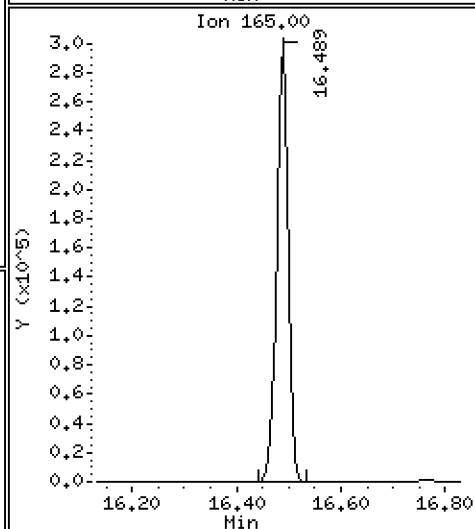
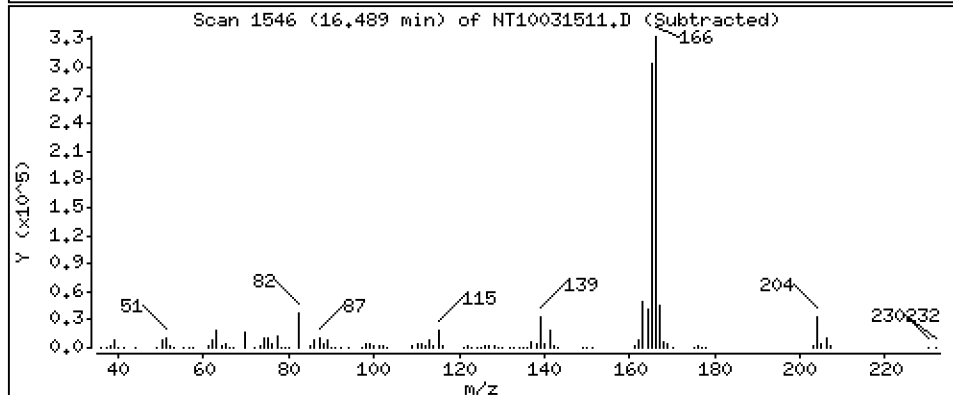
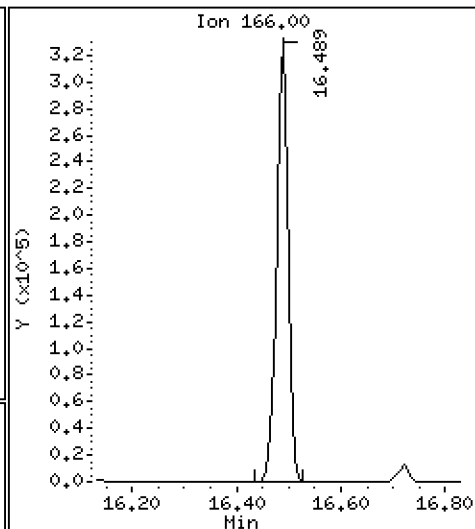
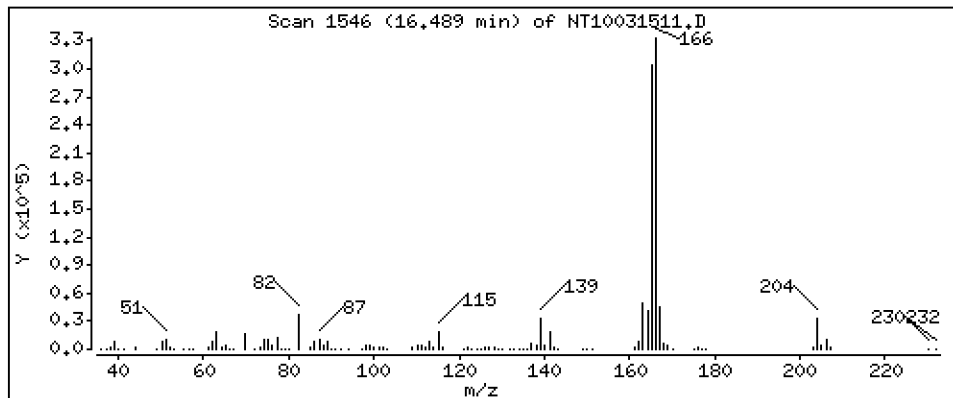
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,708 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

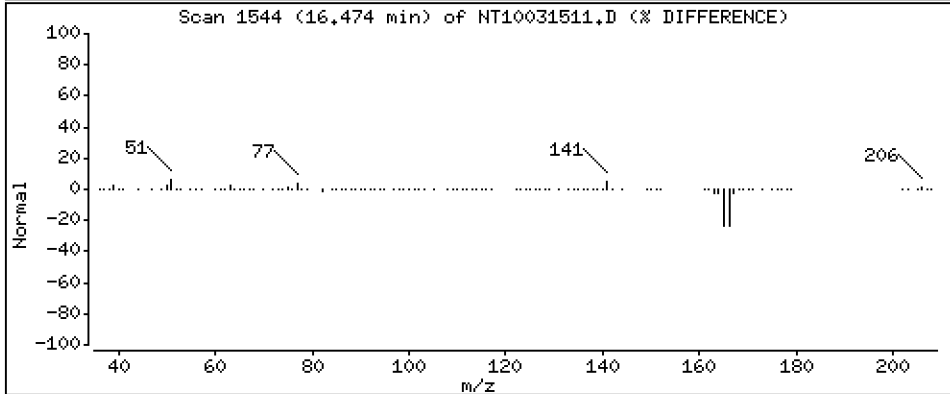
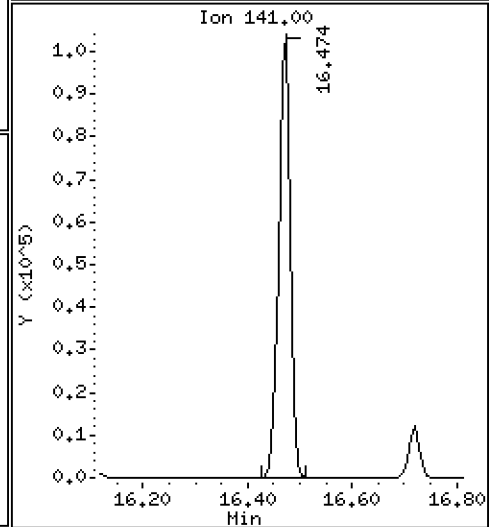
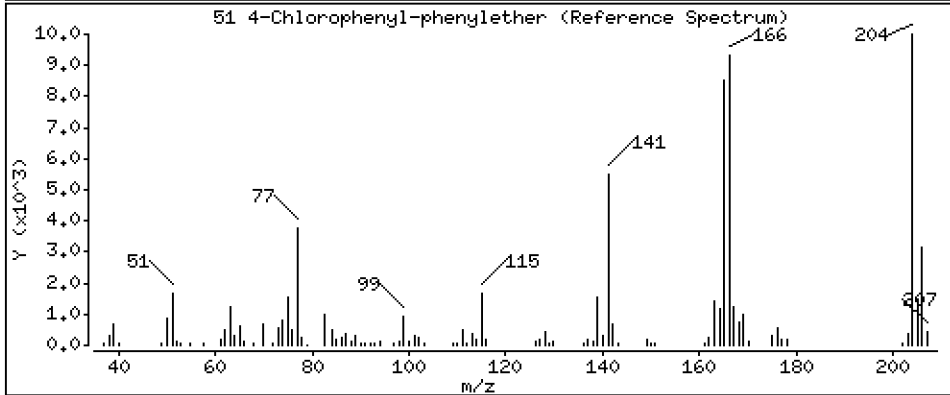
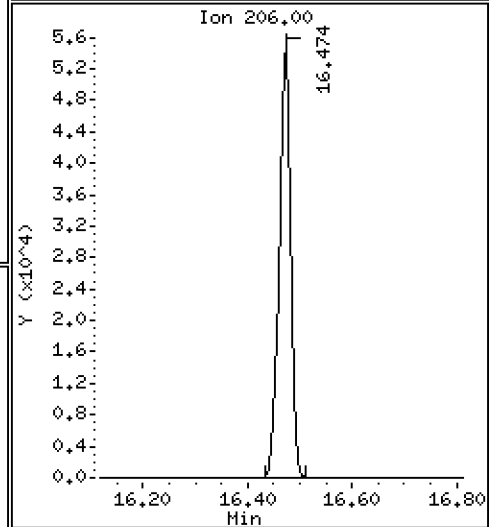
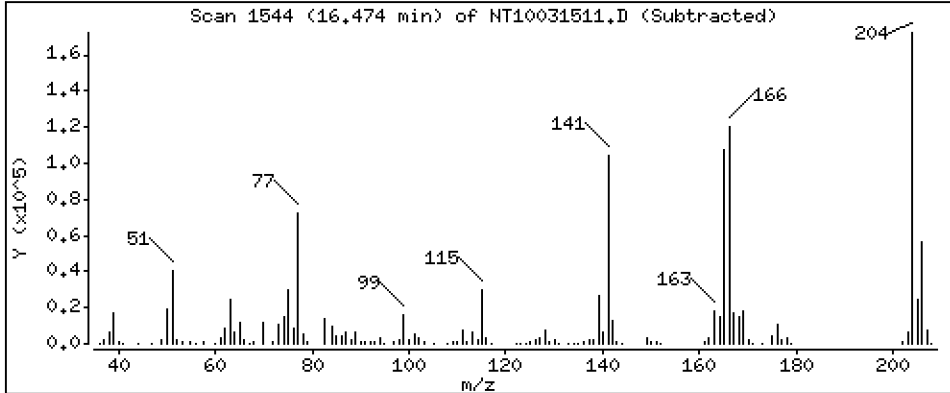
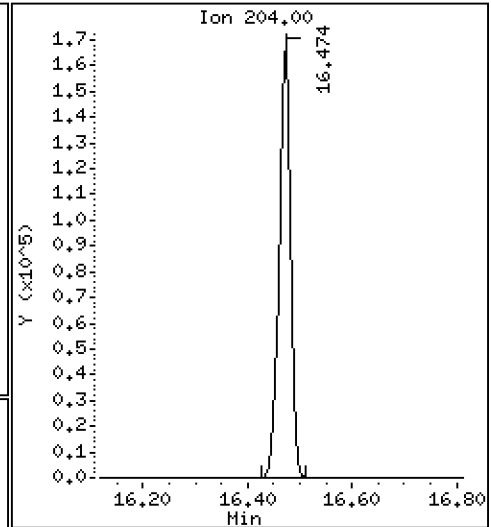
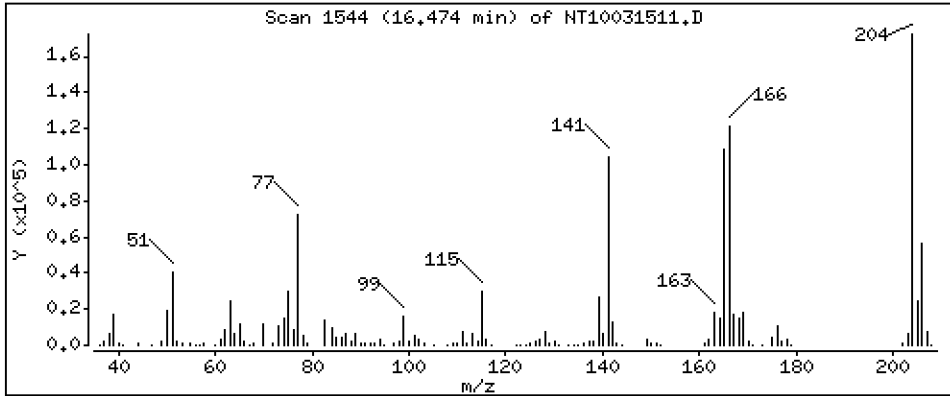
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,993 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

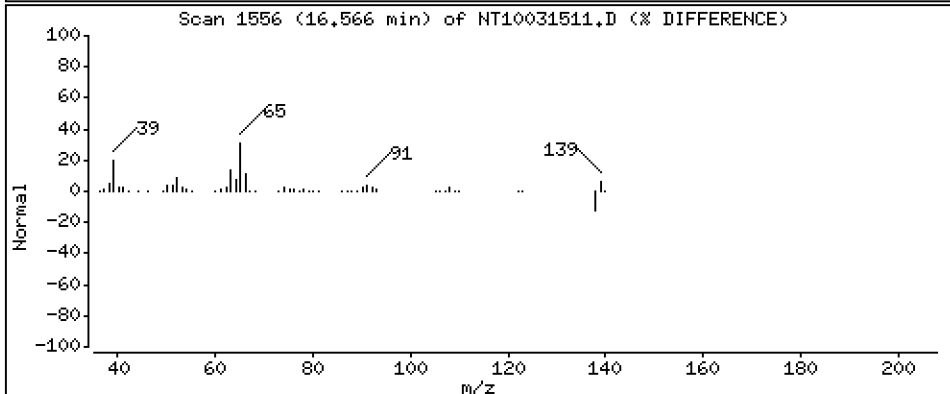
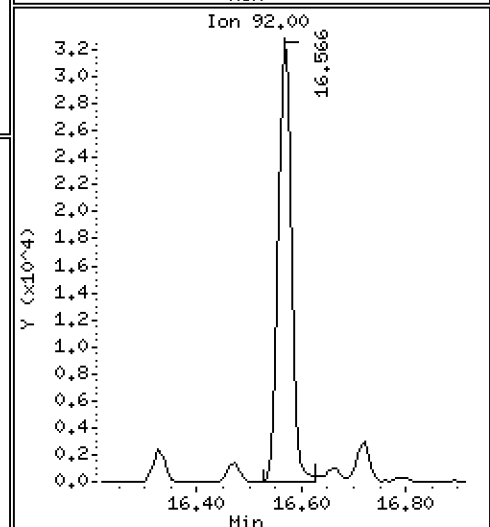
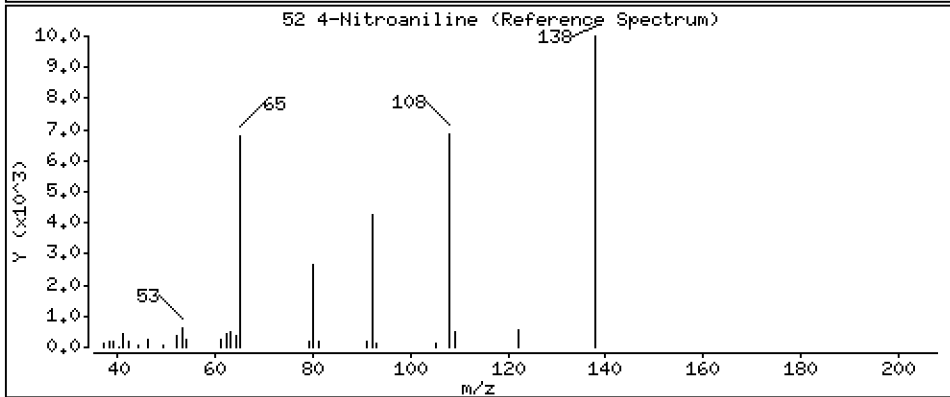
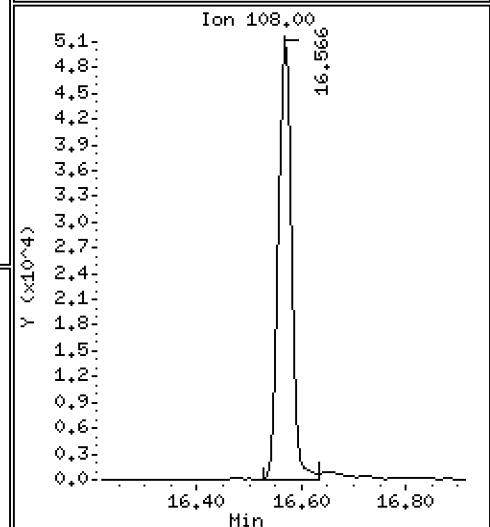
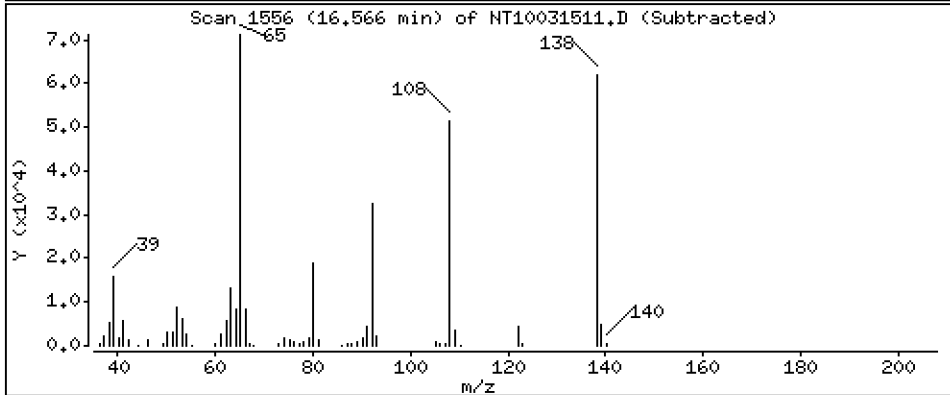
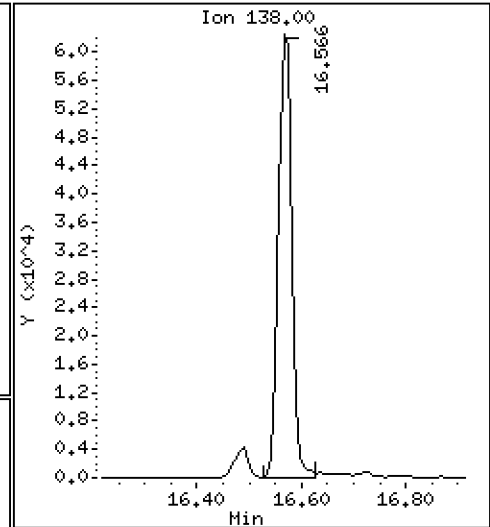
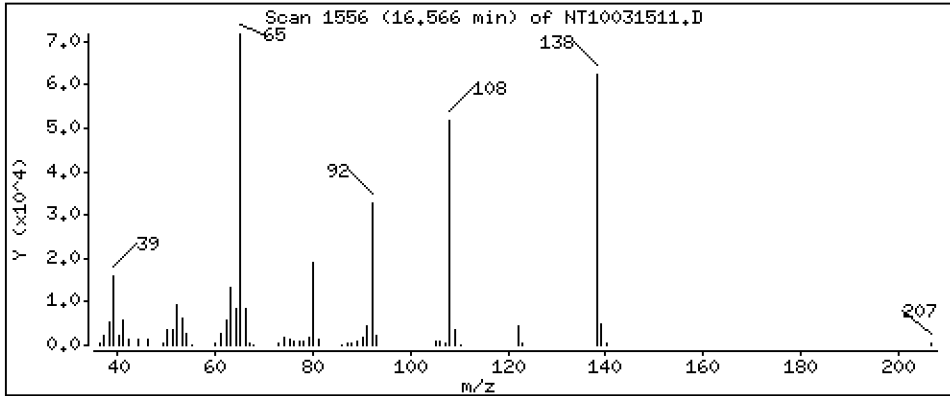
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 4,925 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

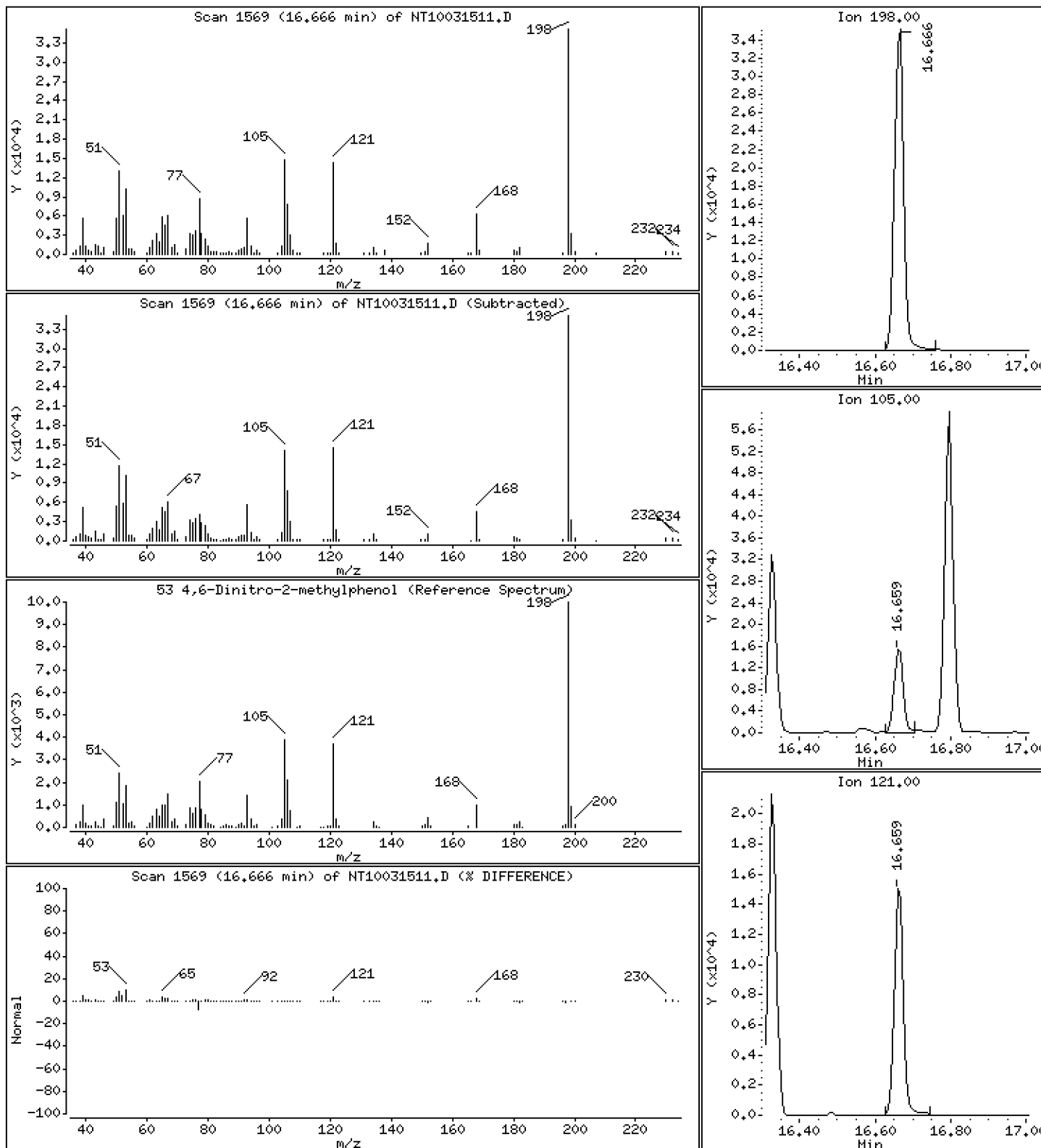
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 3.515 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

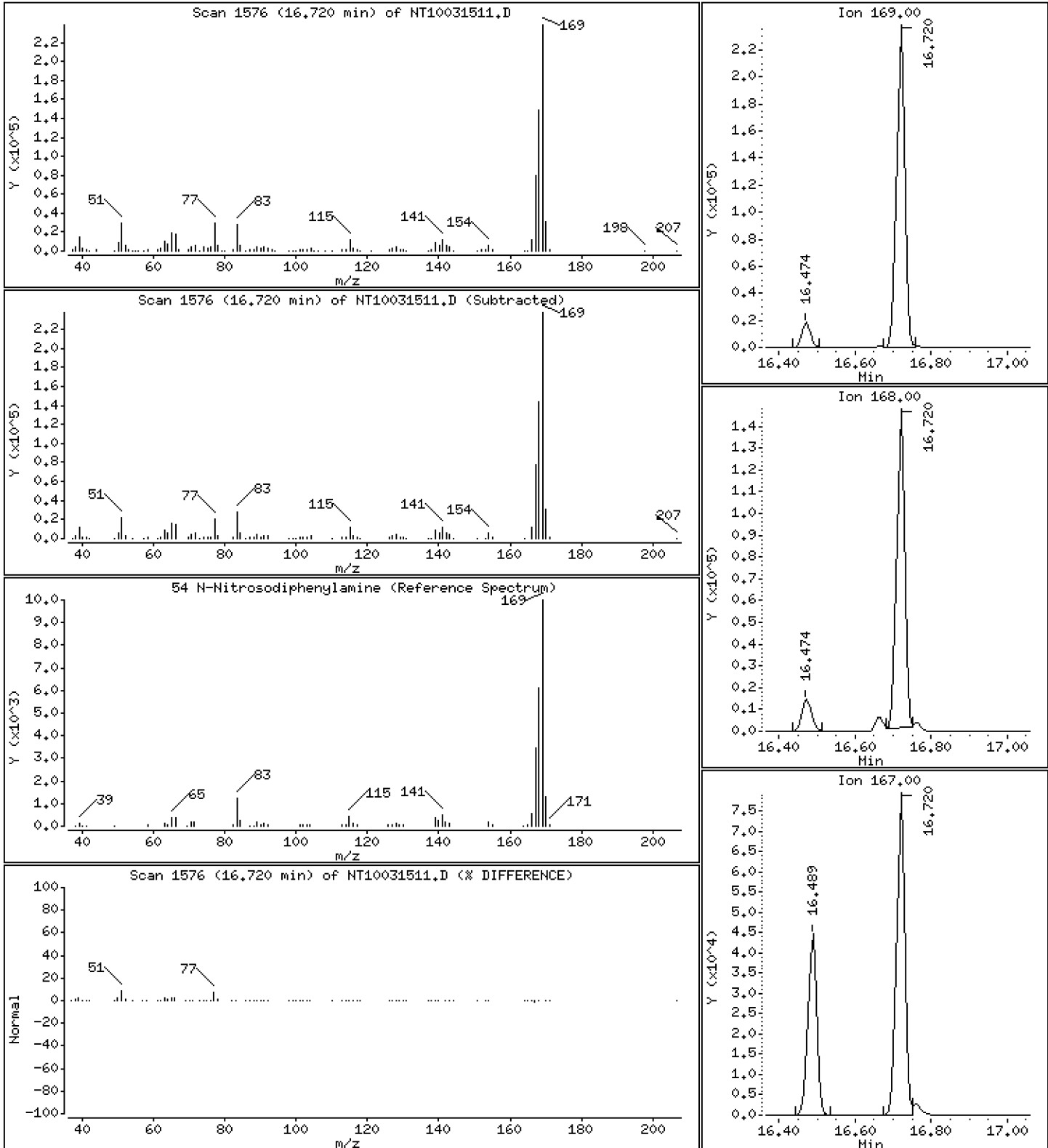
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,802 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

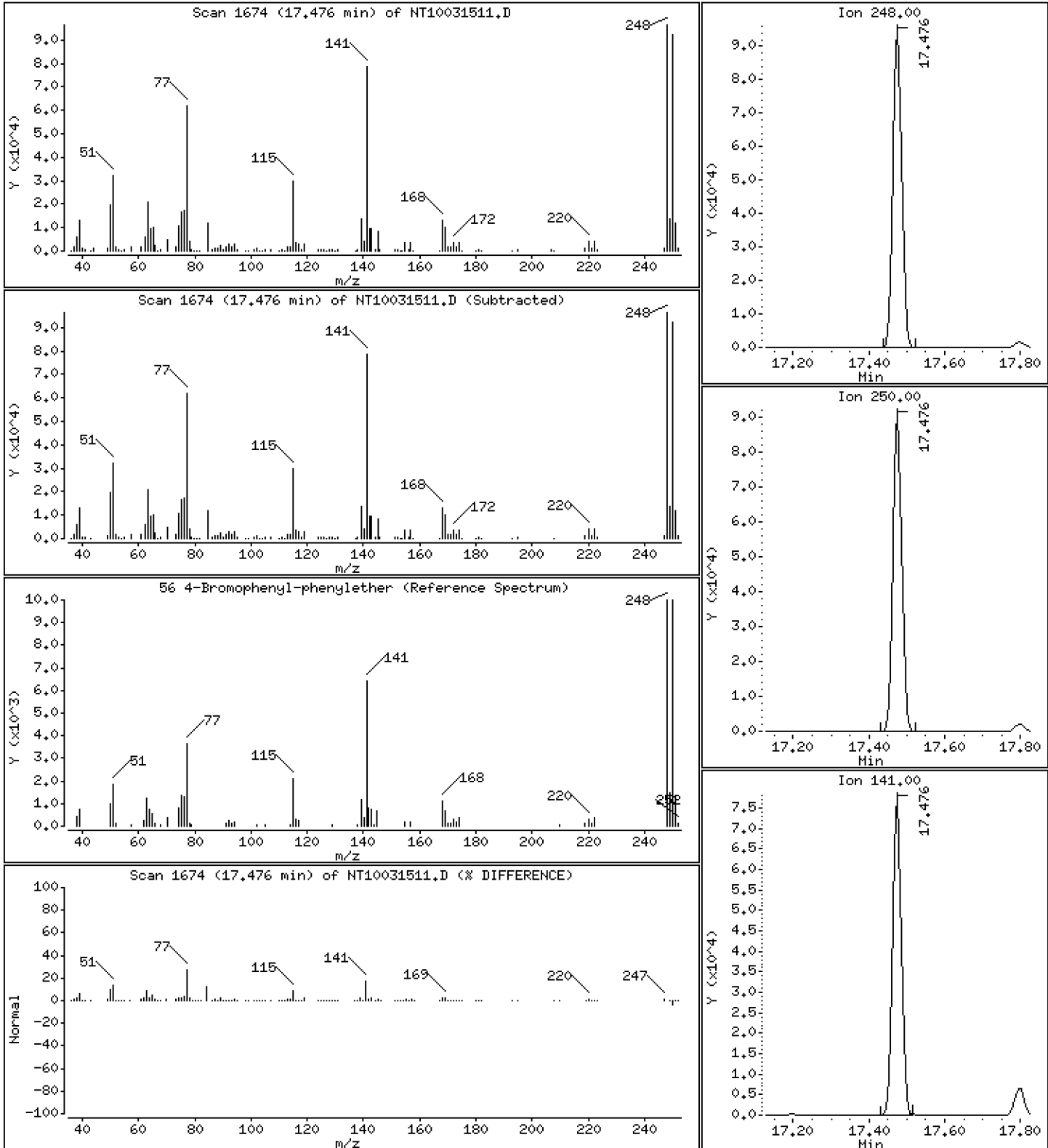
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,060 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

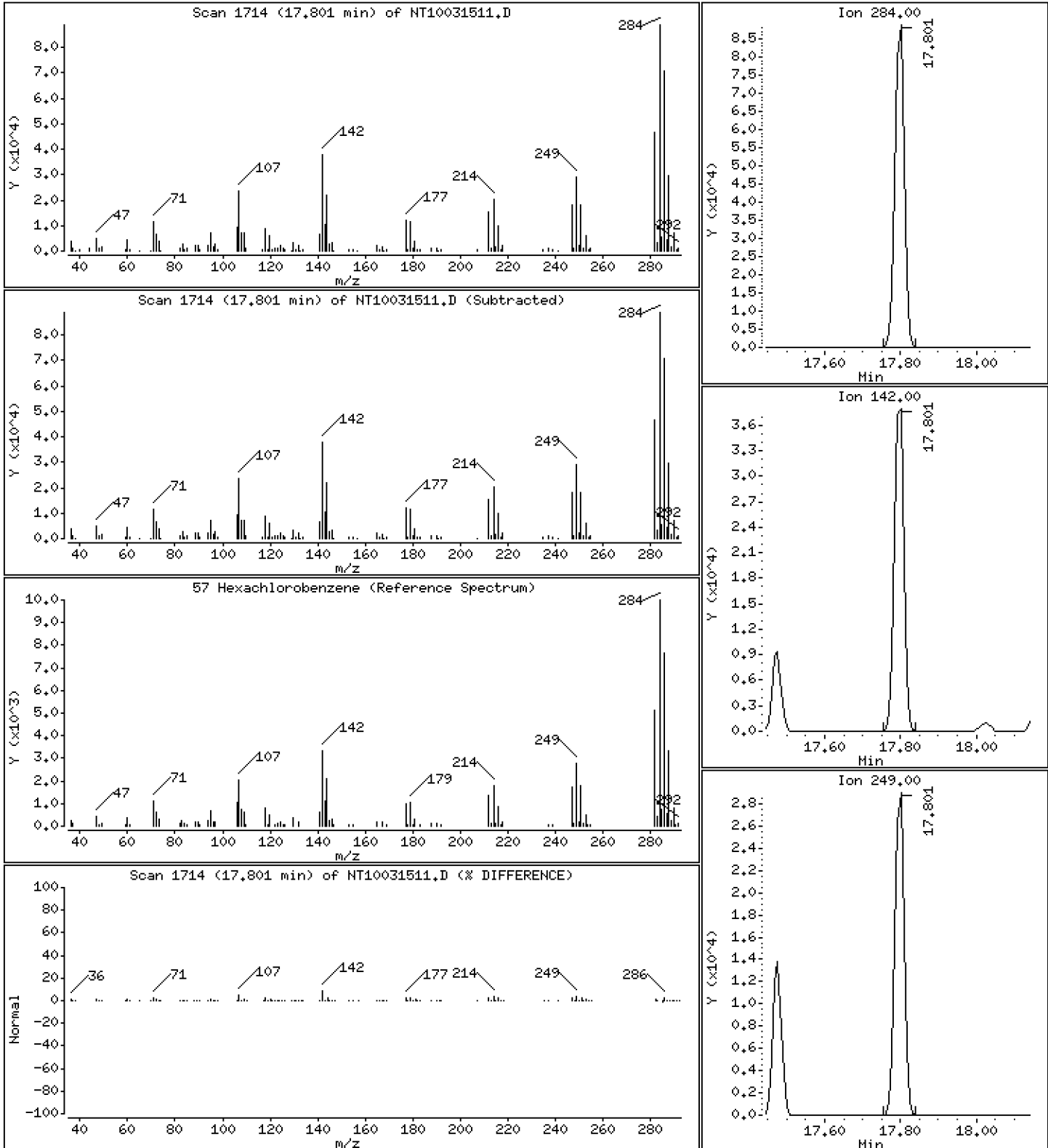
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,596 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

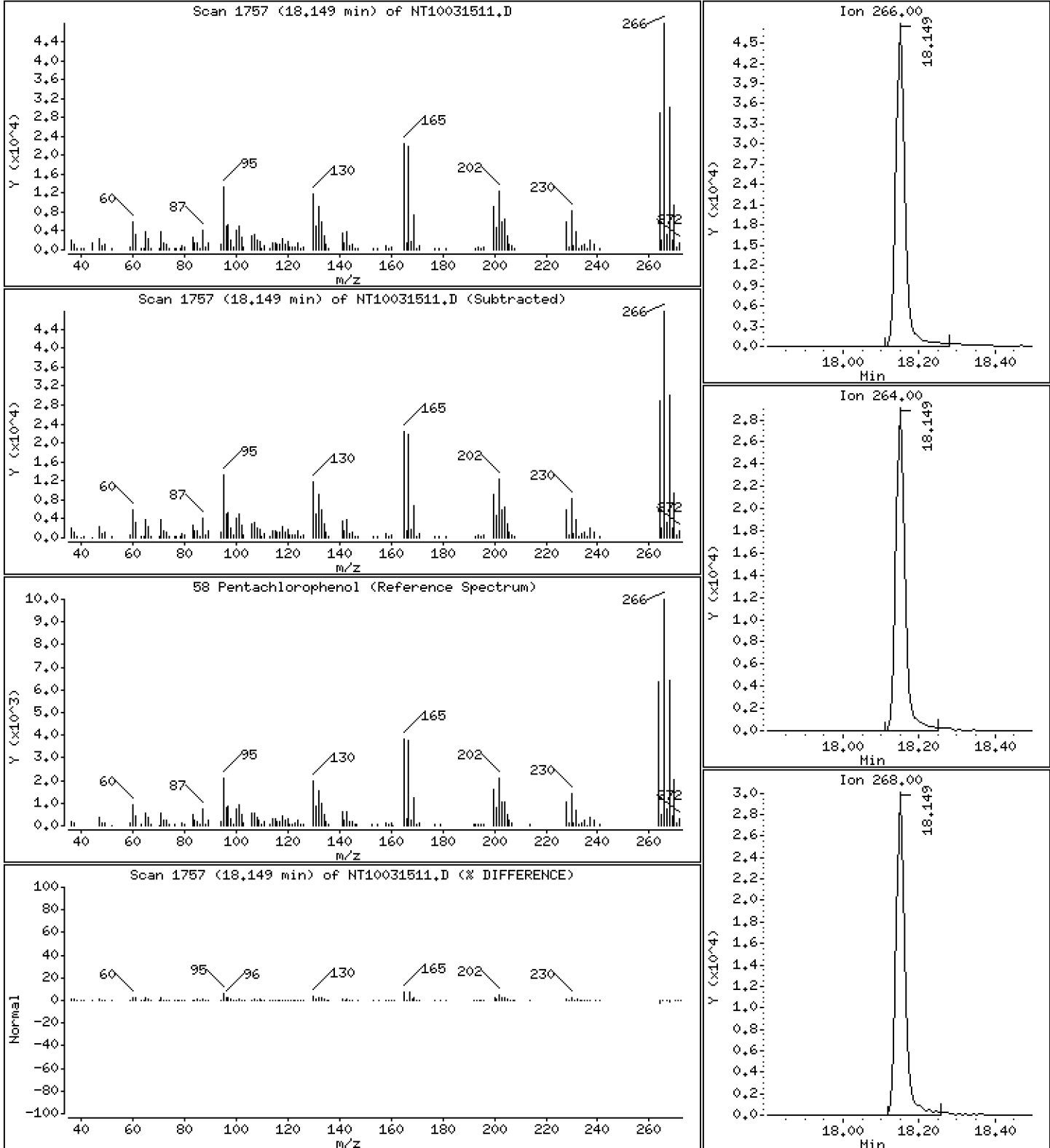
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 4,057 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

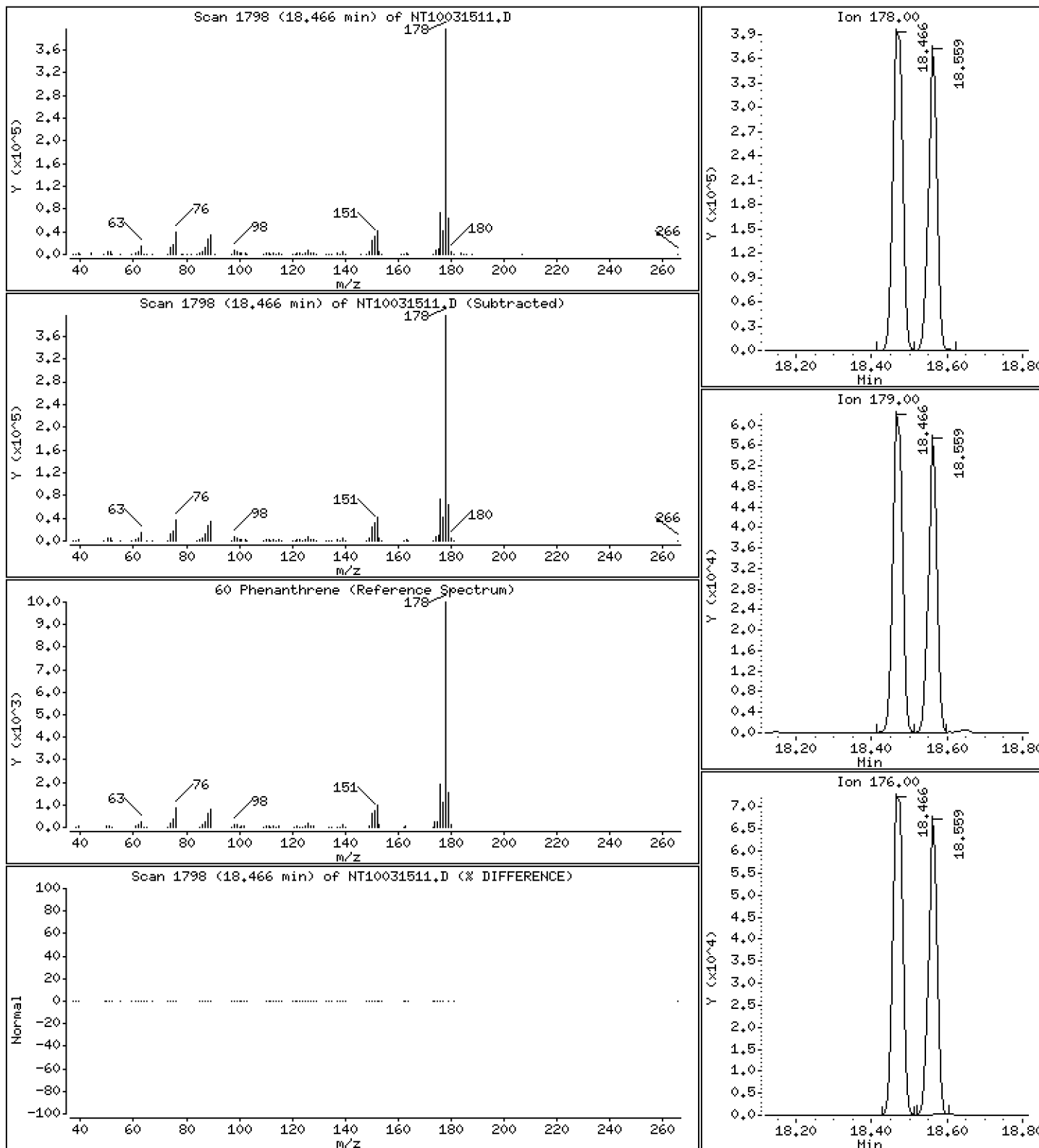
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,602 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

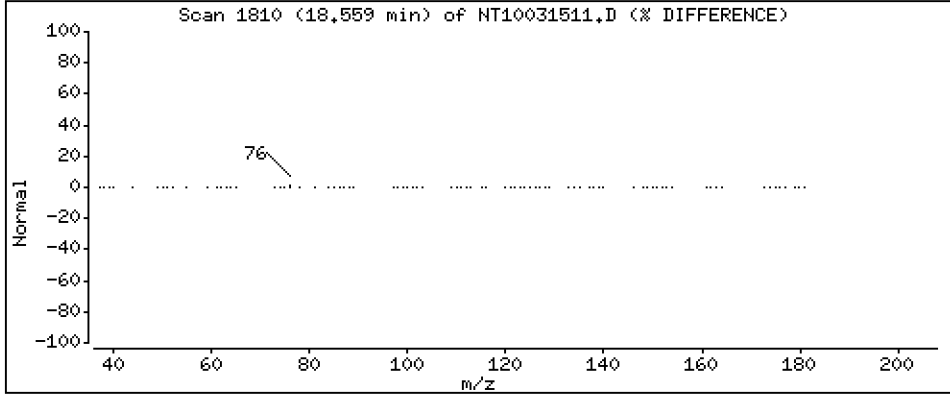
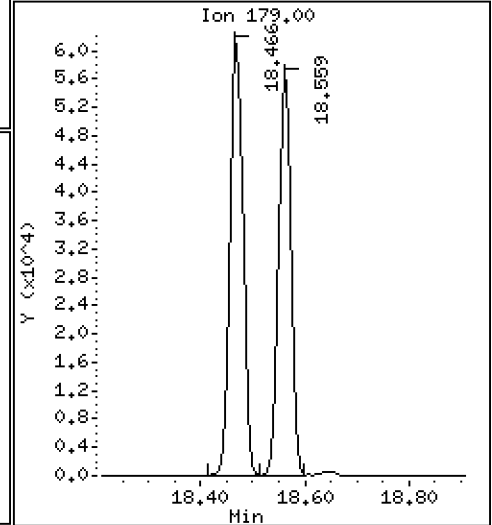
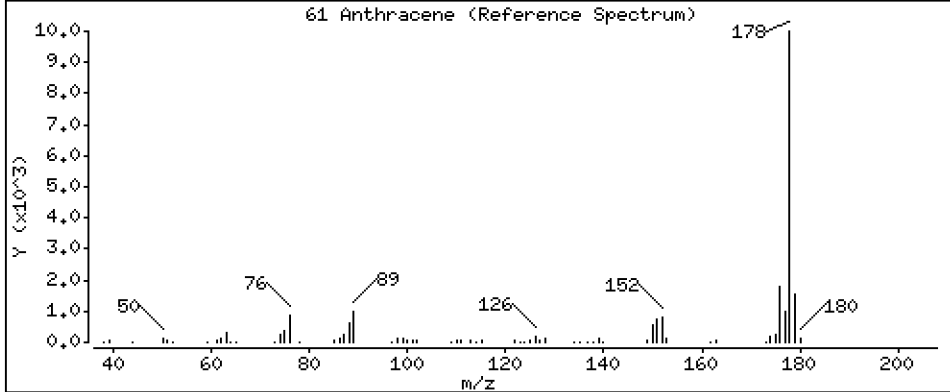
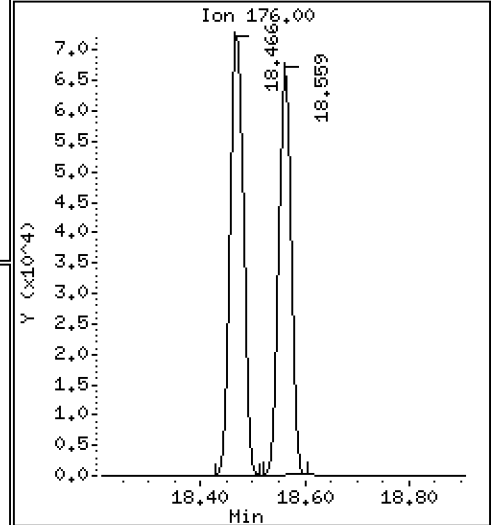
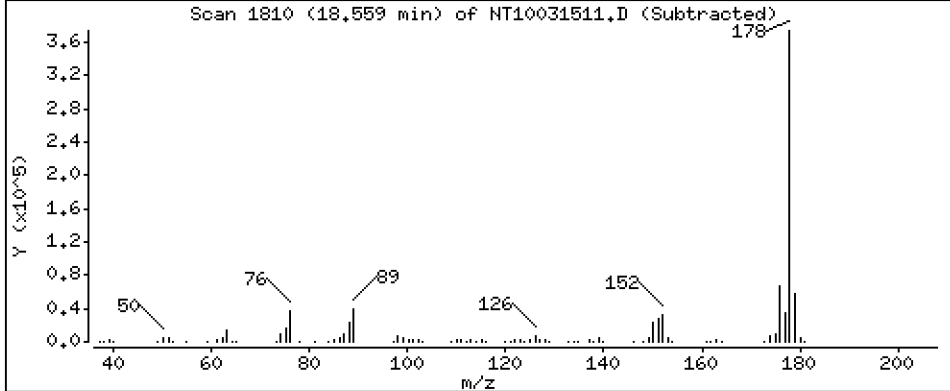
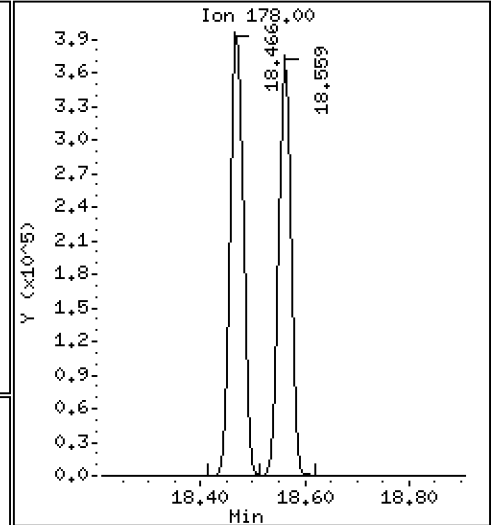
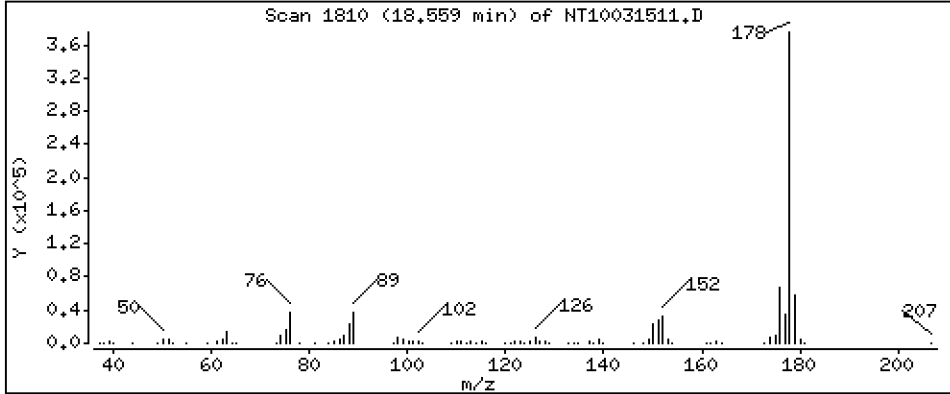
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,167 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

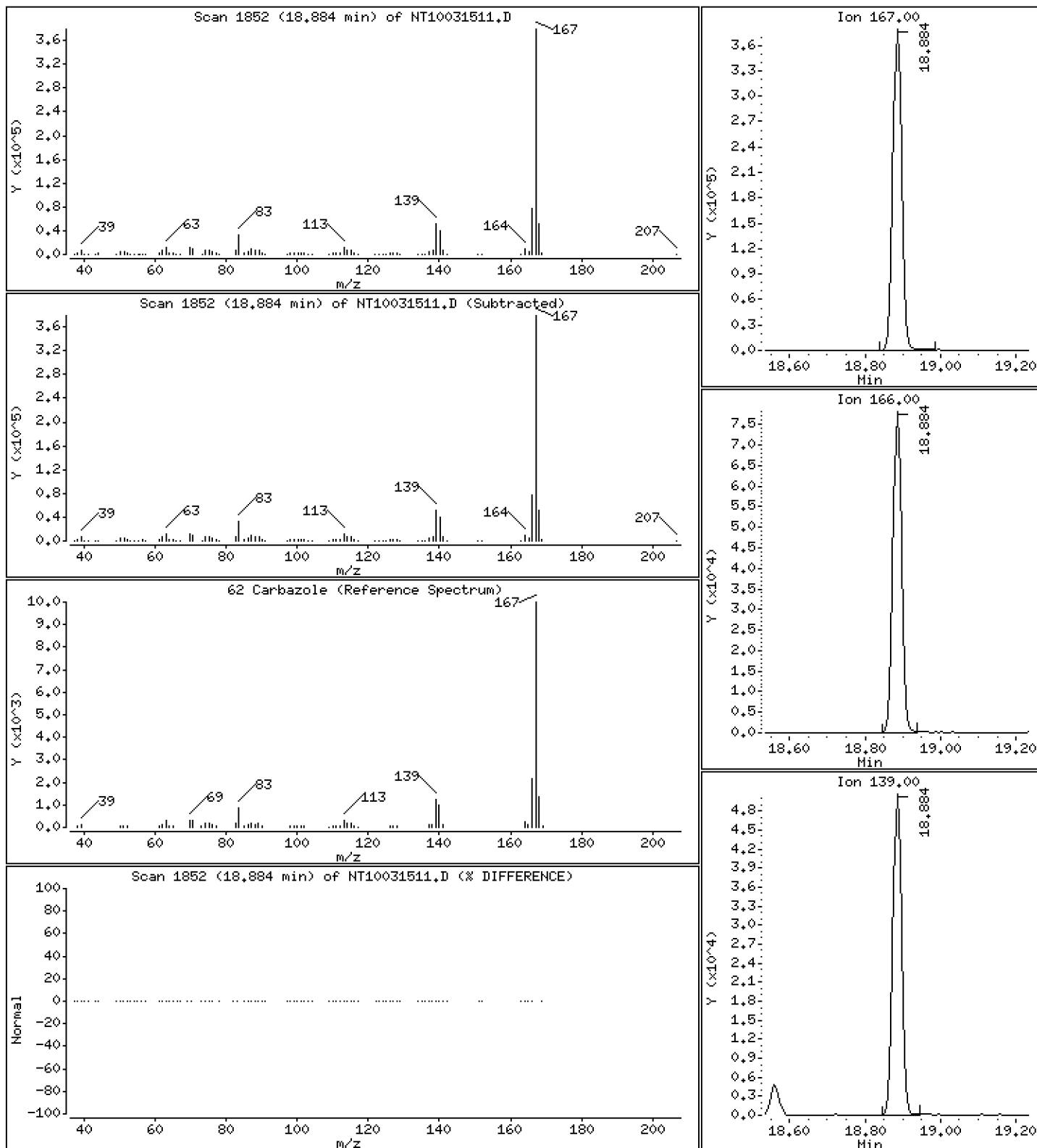
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,730 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

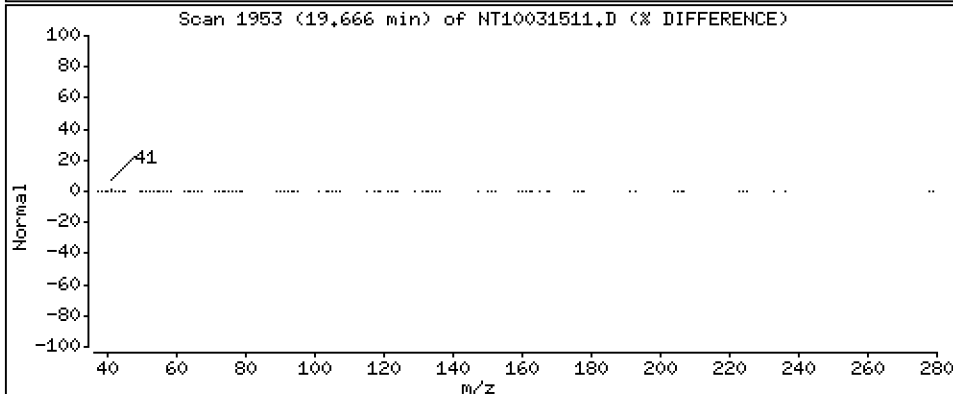
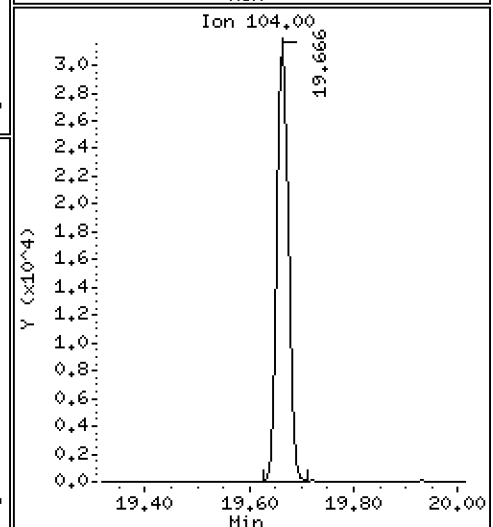
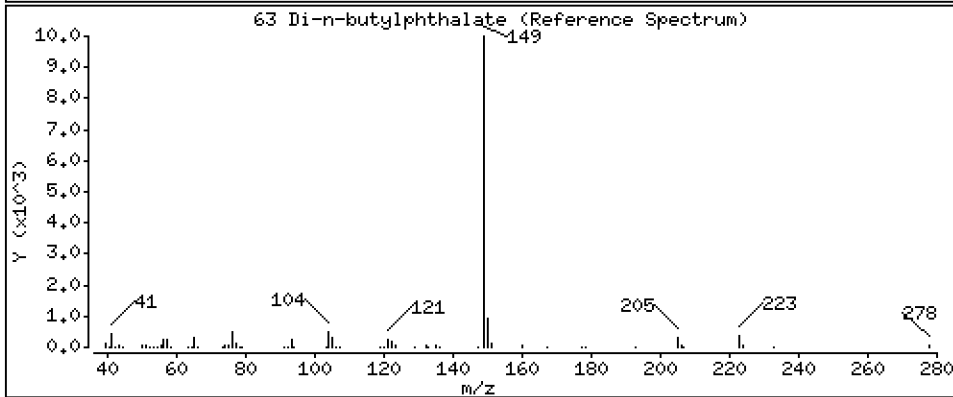
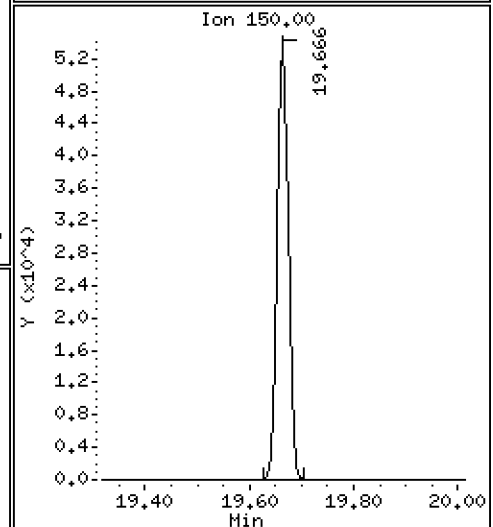
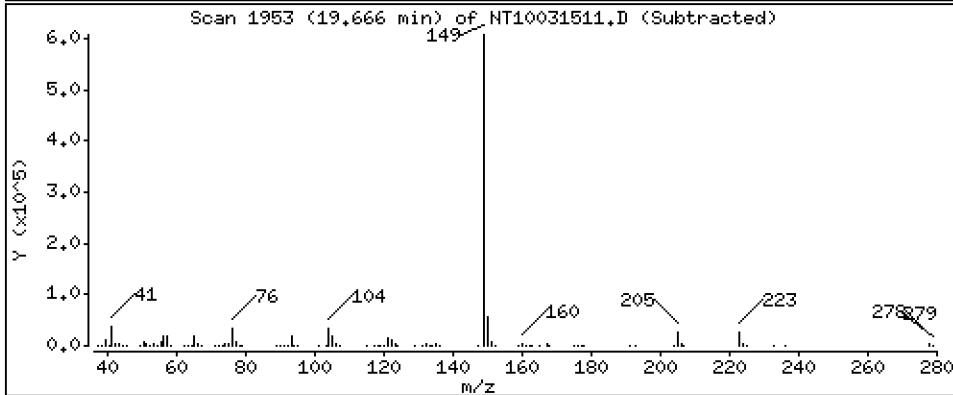
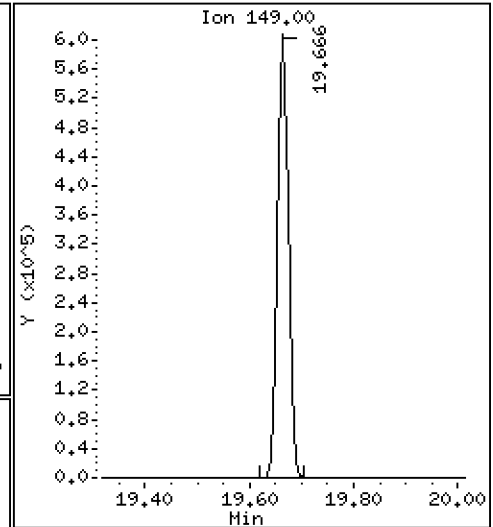
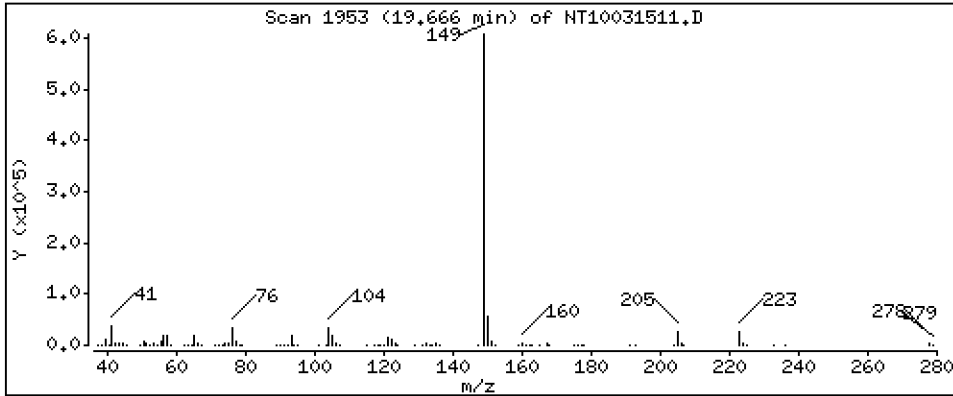
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,967 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

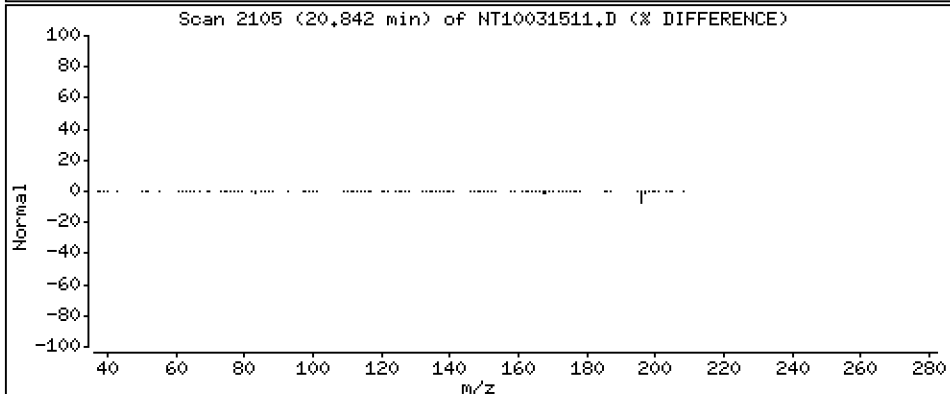
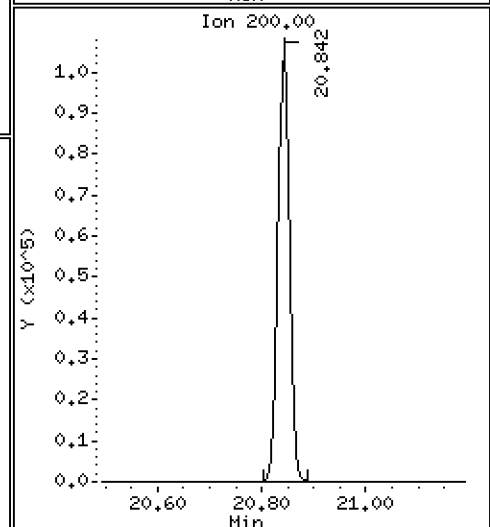
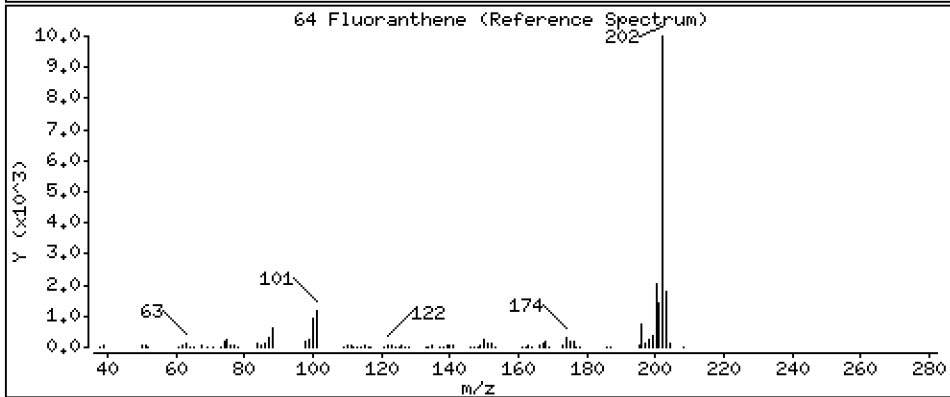
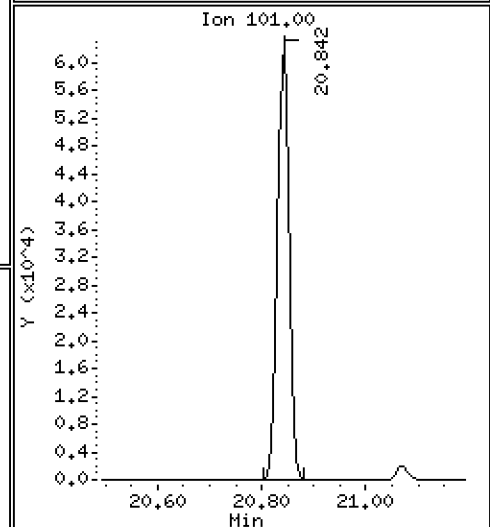
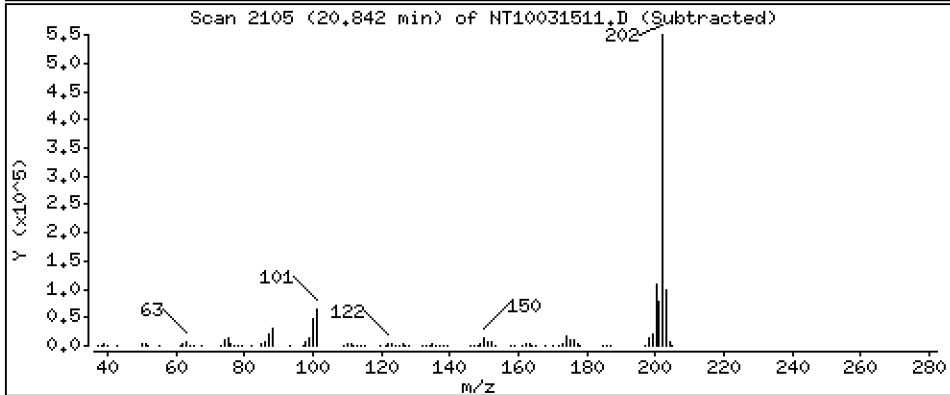
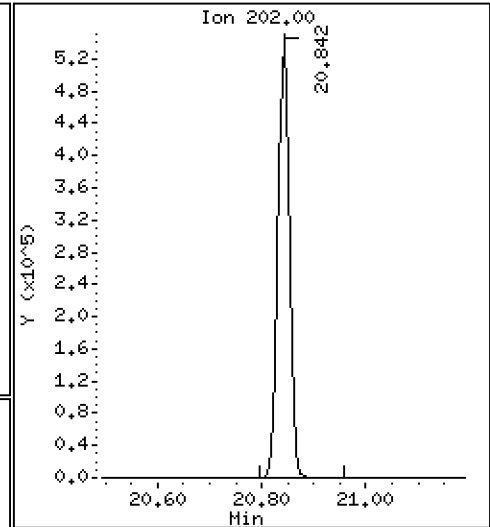
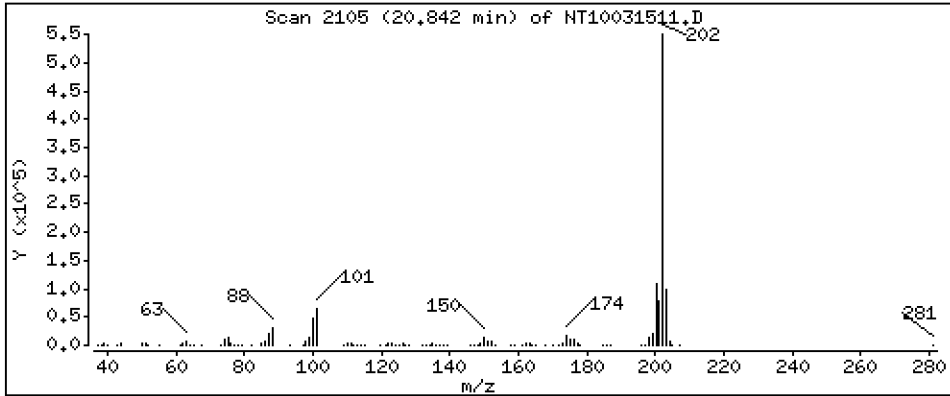
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,472 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

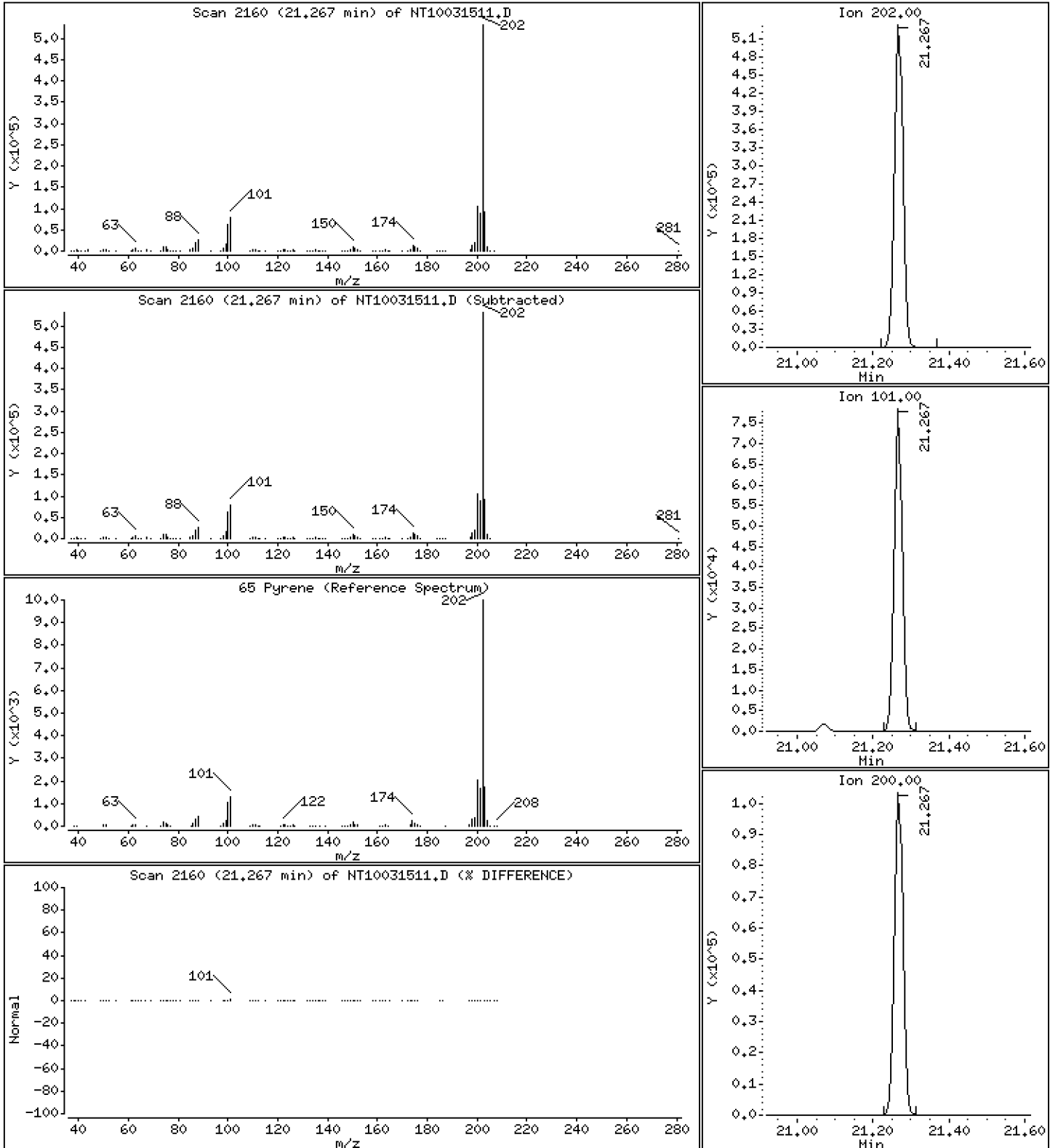
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,339 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

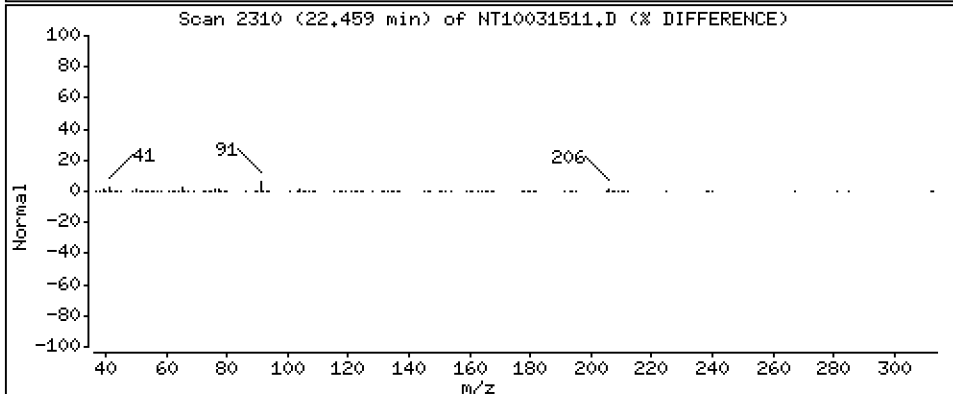
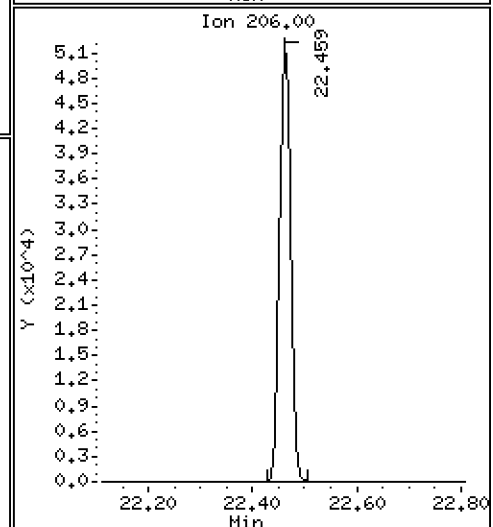
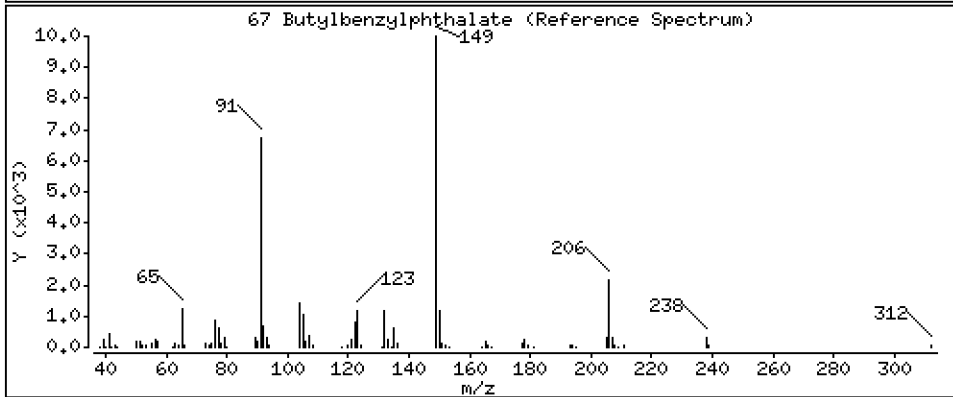
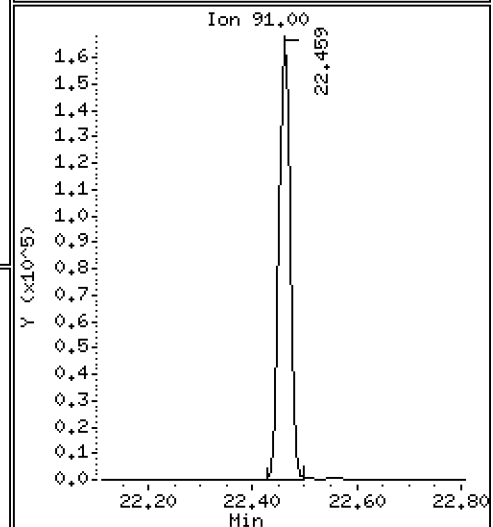
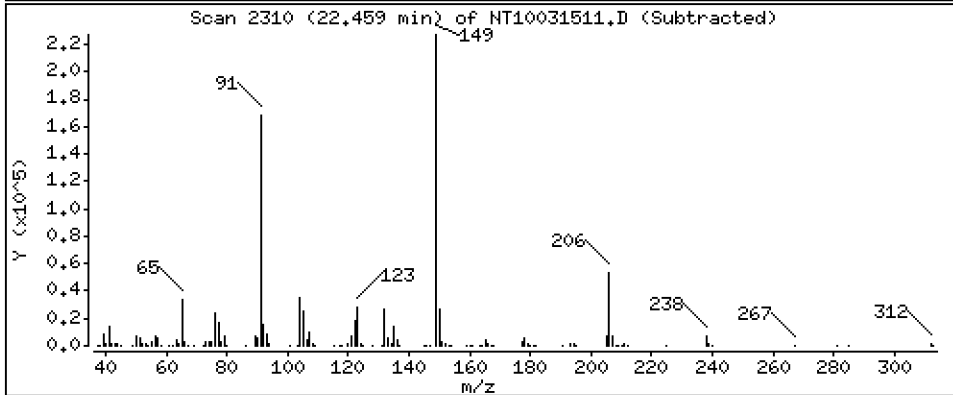
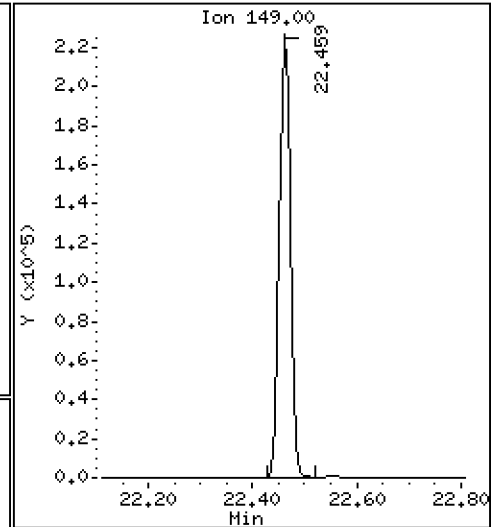
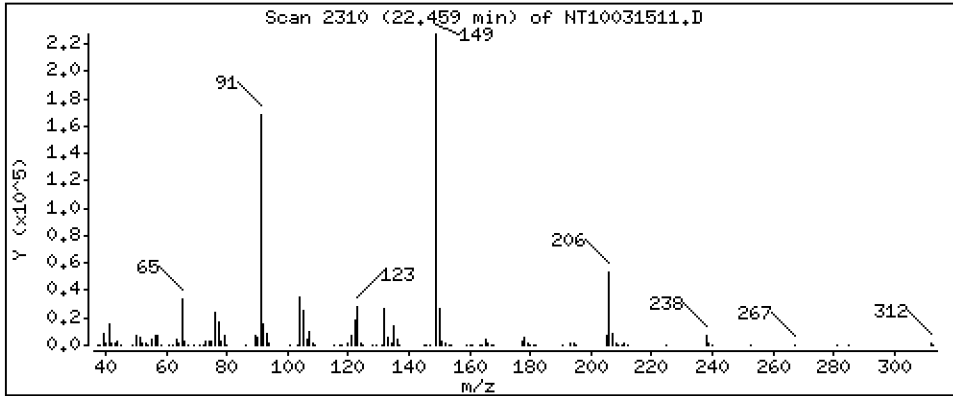
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,834 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

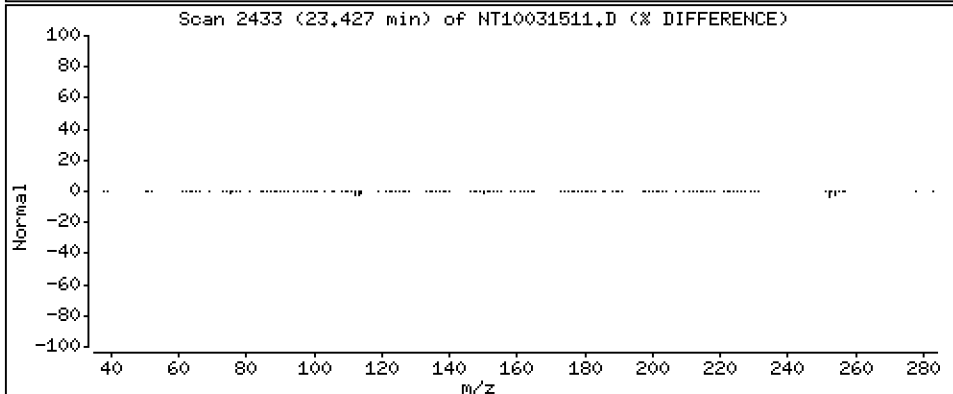
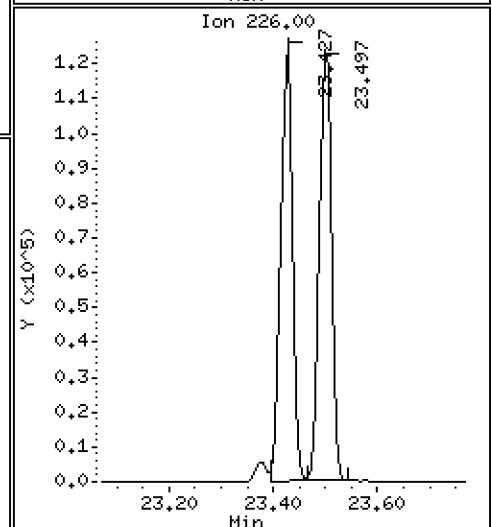
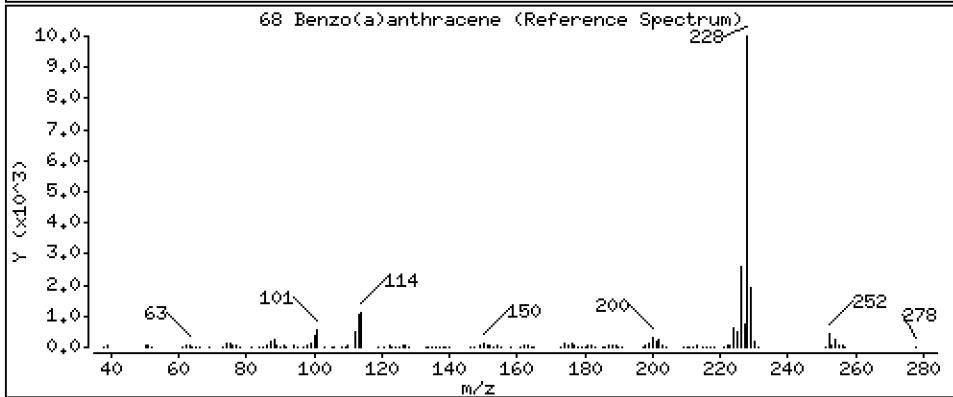
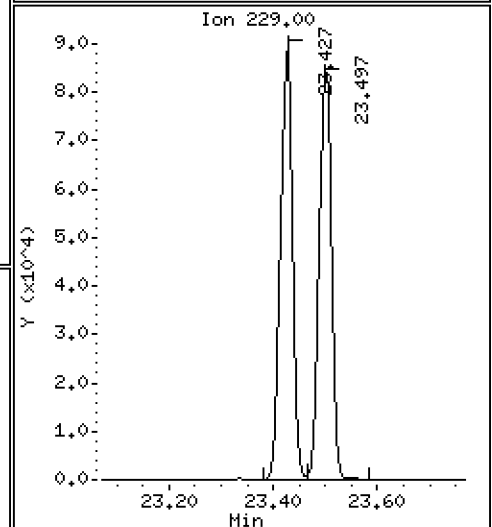
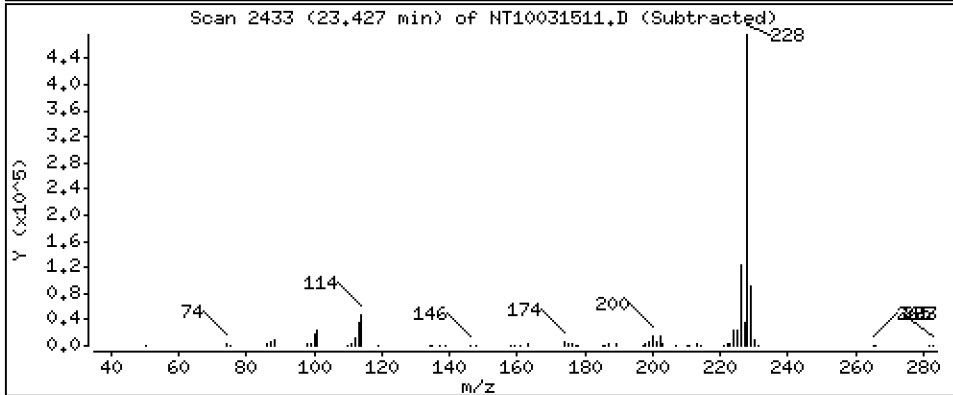
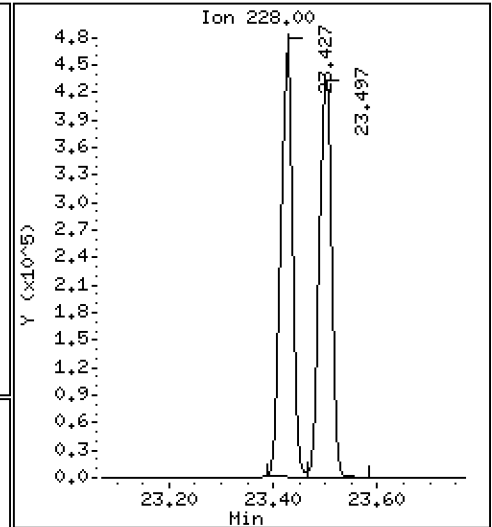
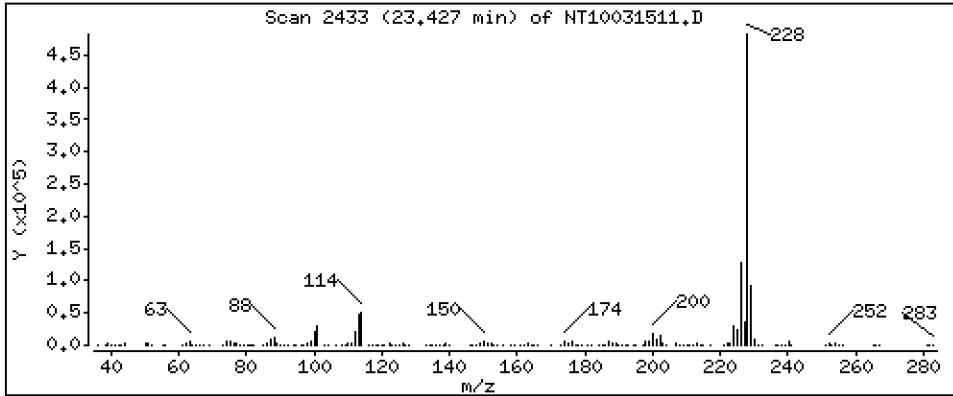
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,647 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

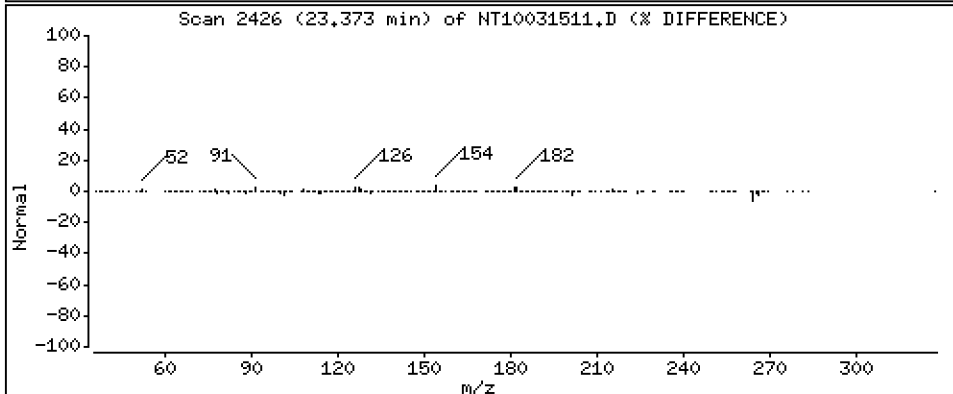
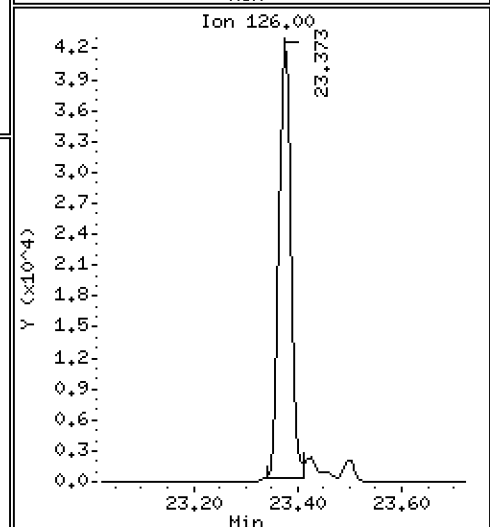
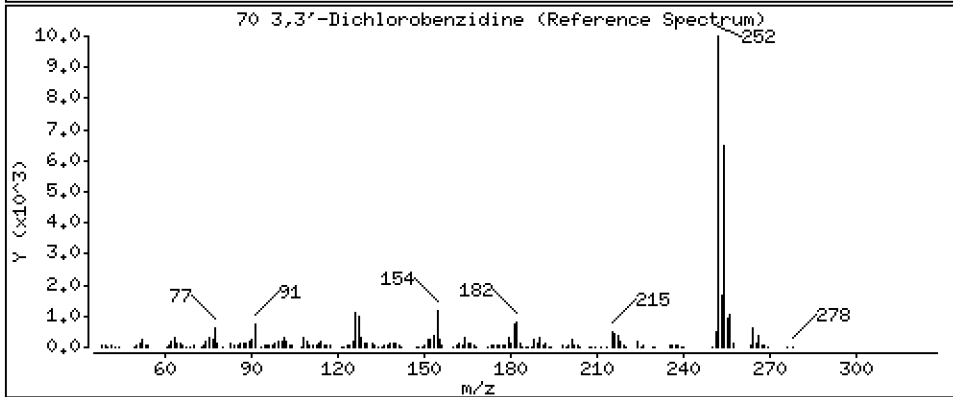
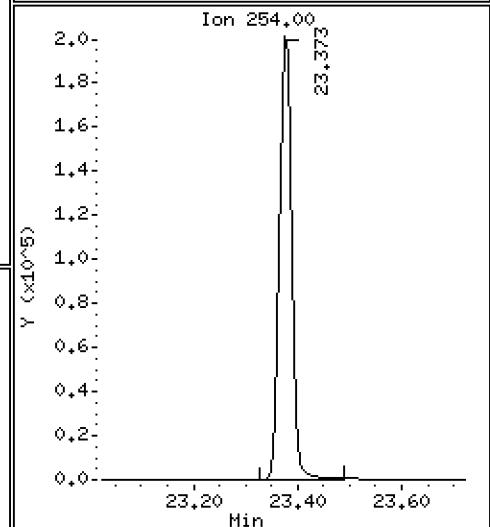
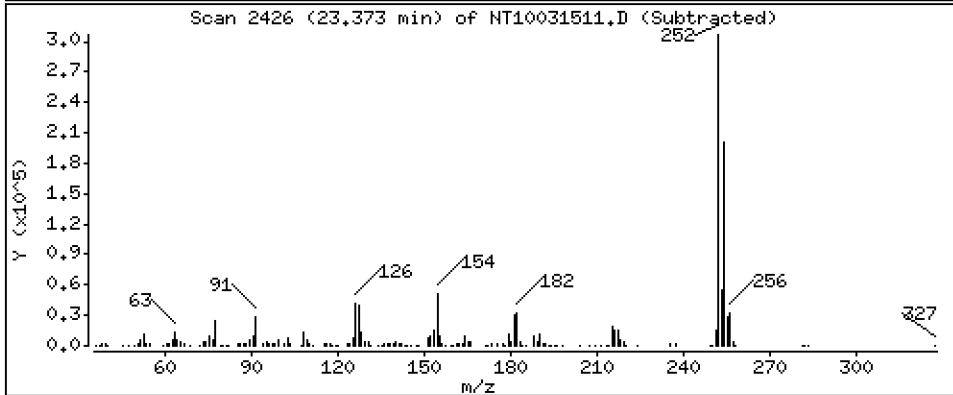
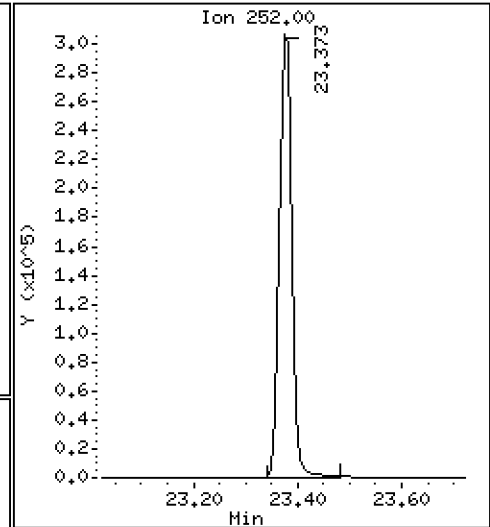
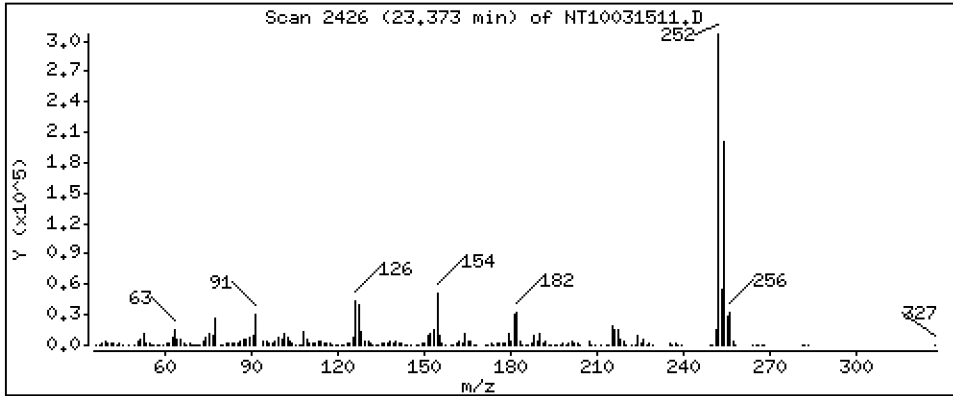
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 9,817 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

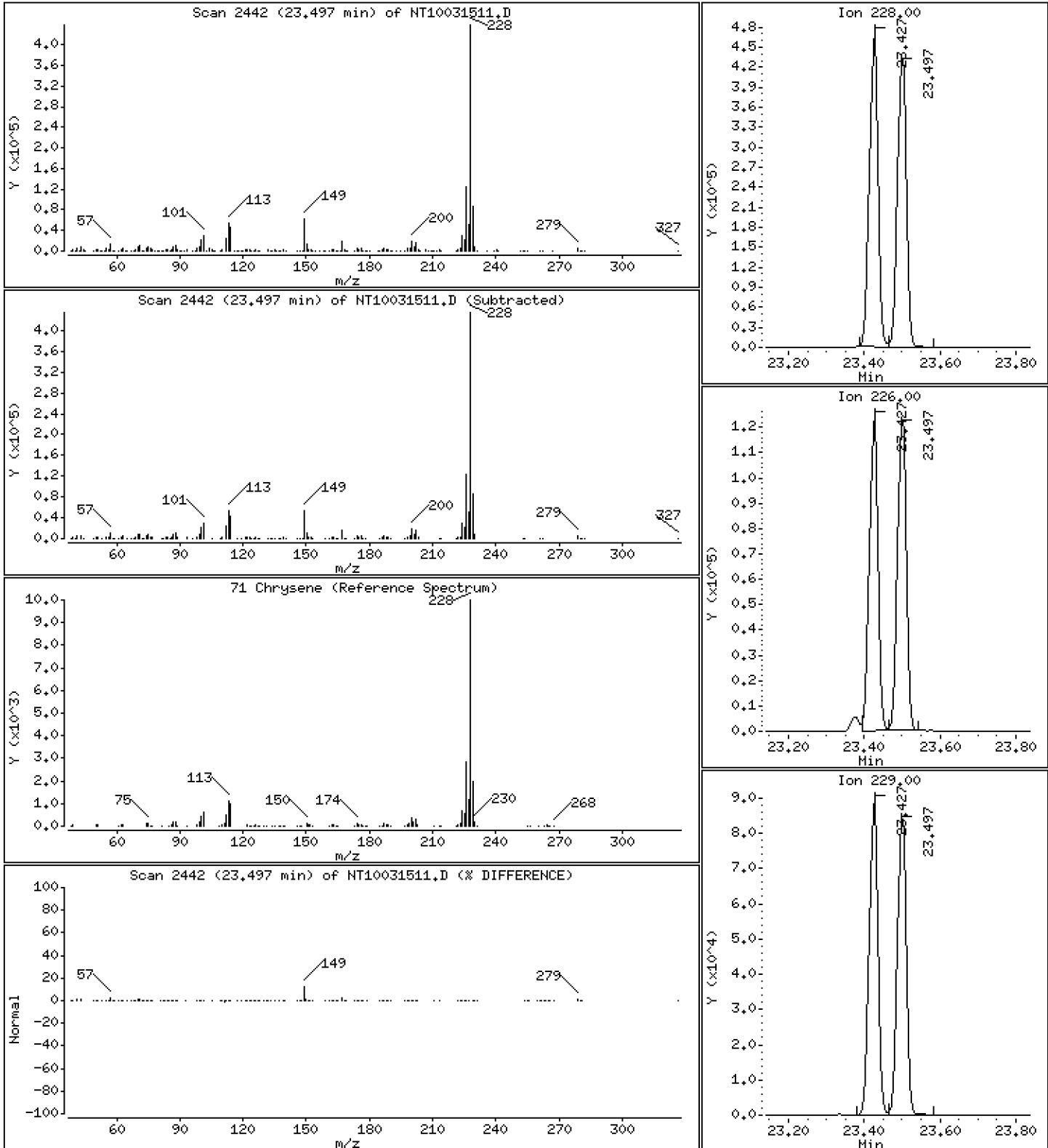
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,510 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

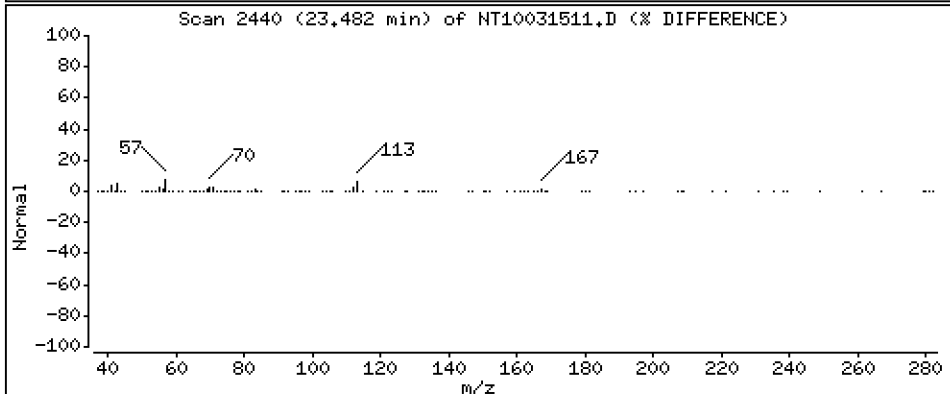
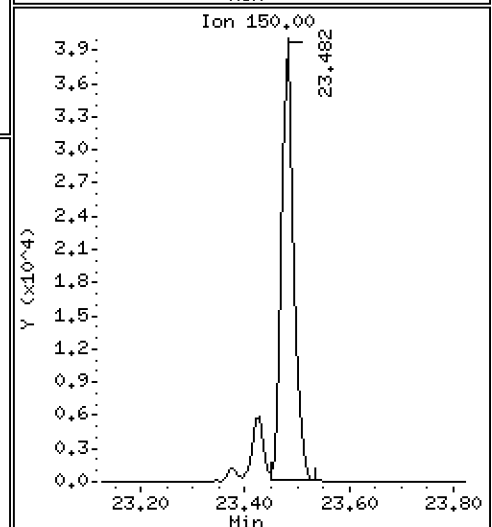
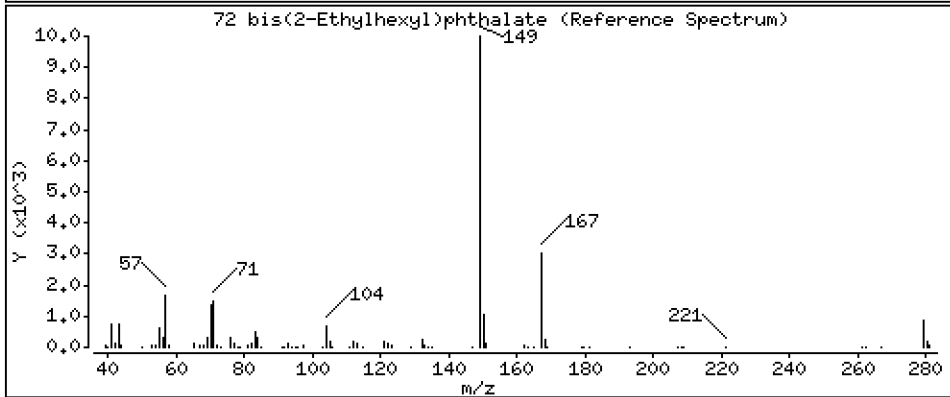
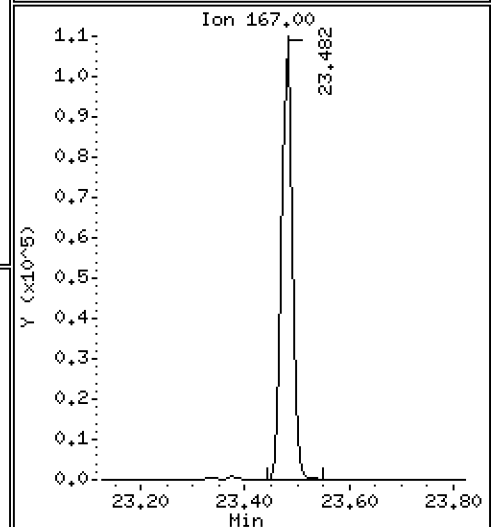
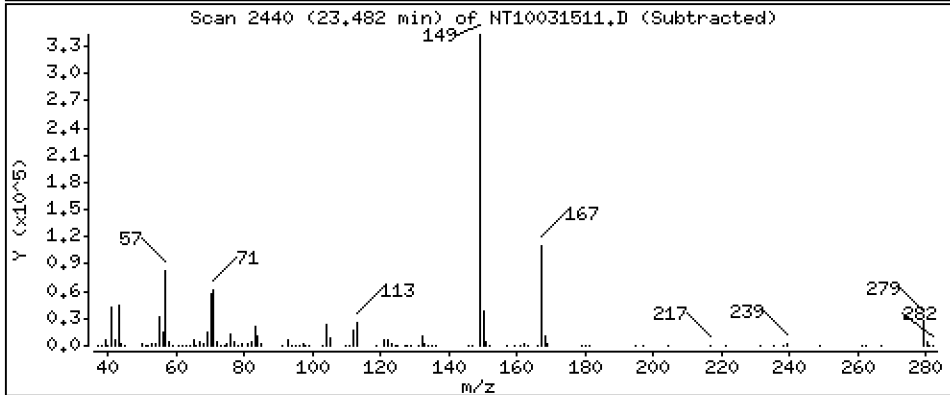
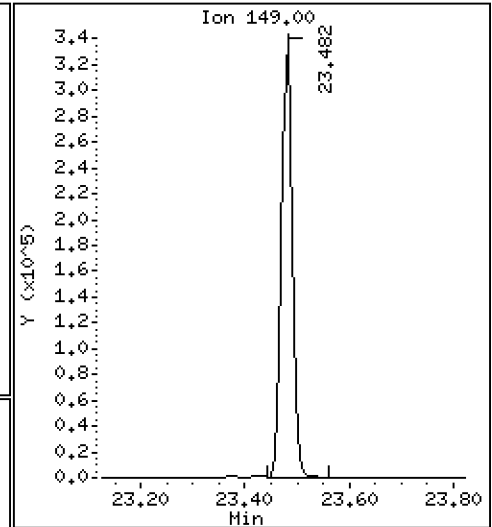
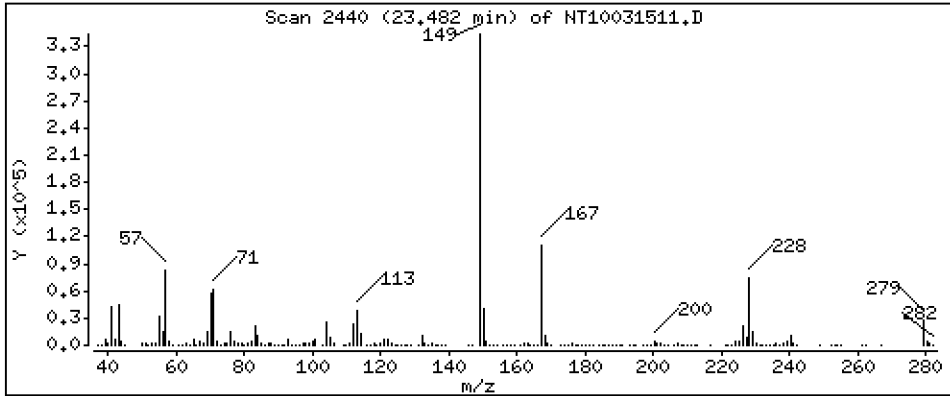
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,680 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

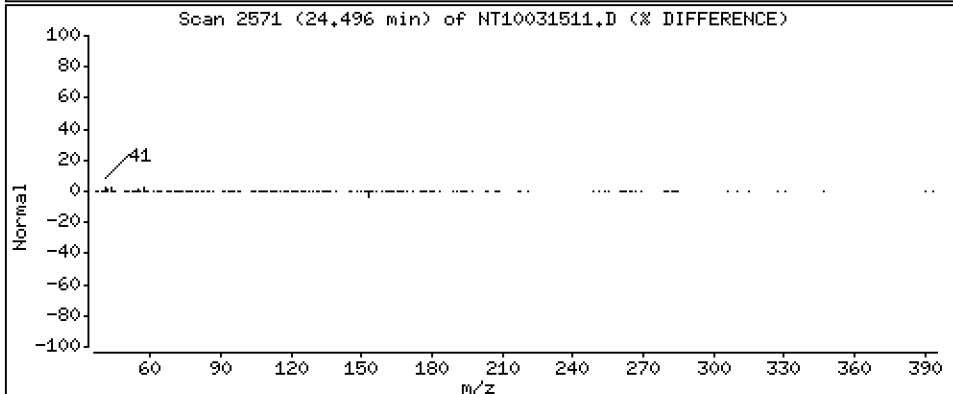
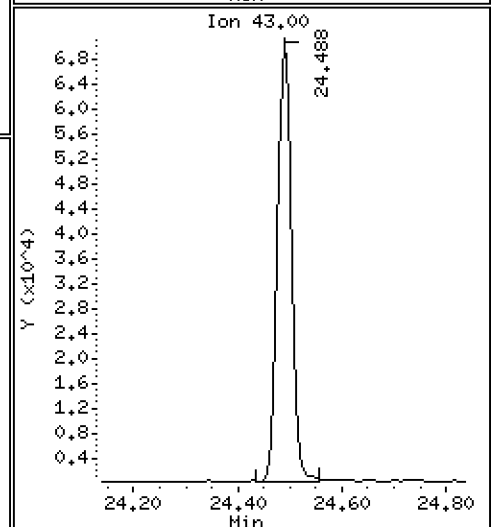
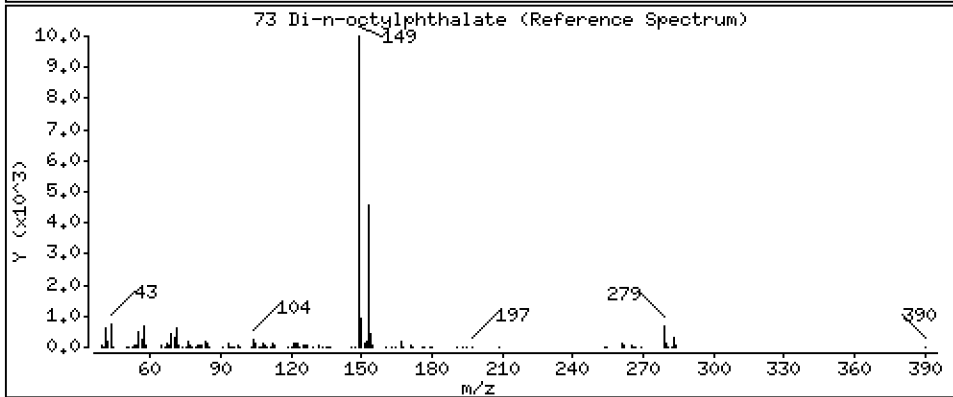
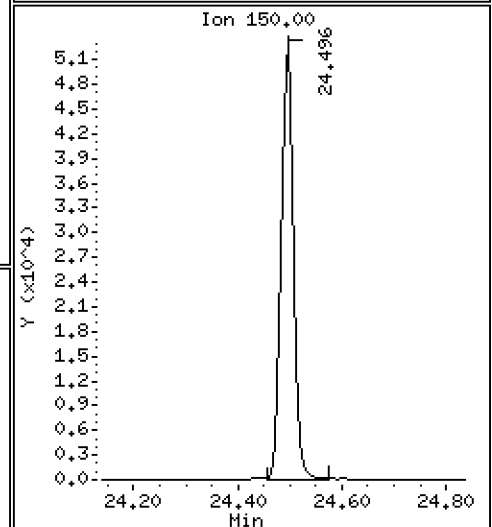
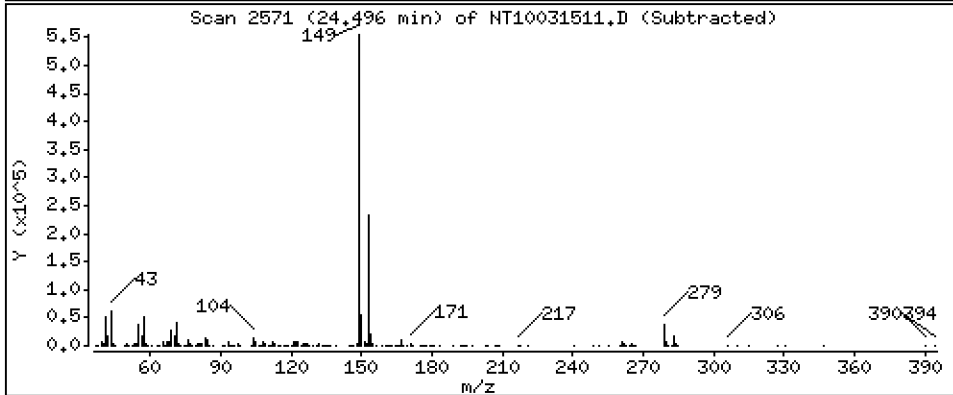
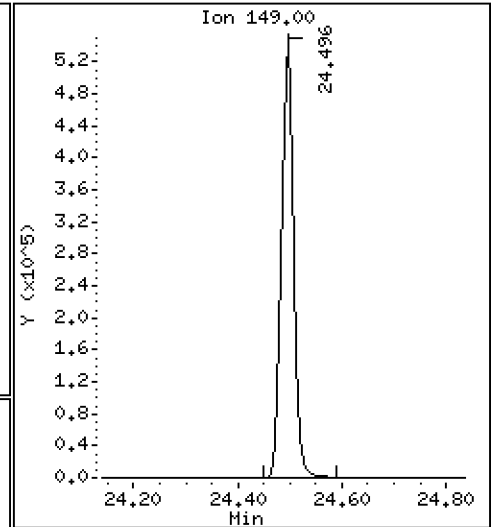
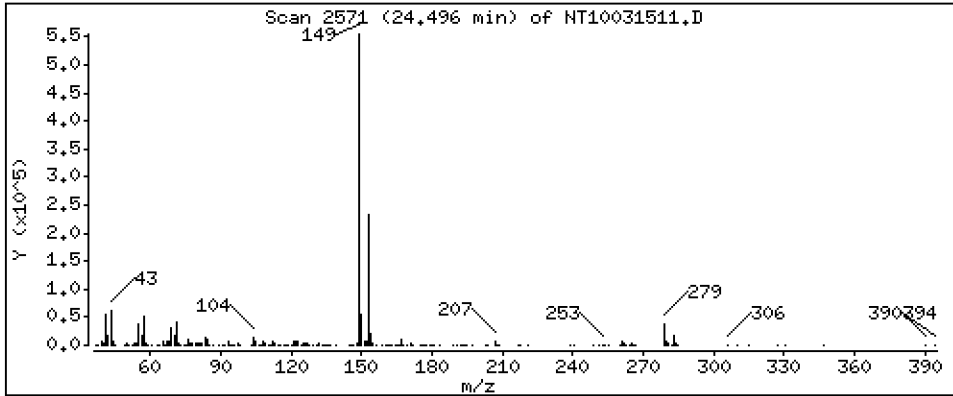
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,947 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

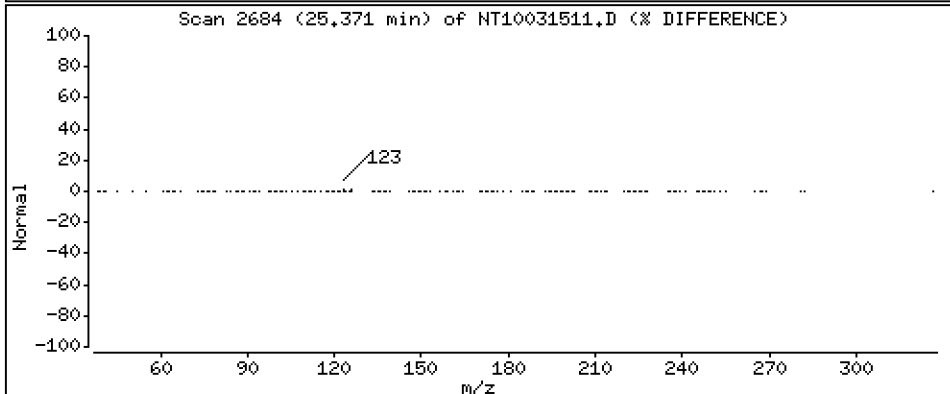
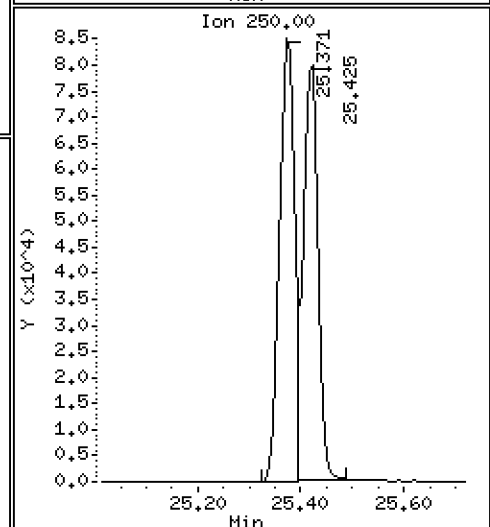
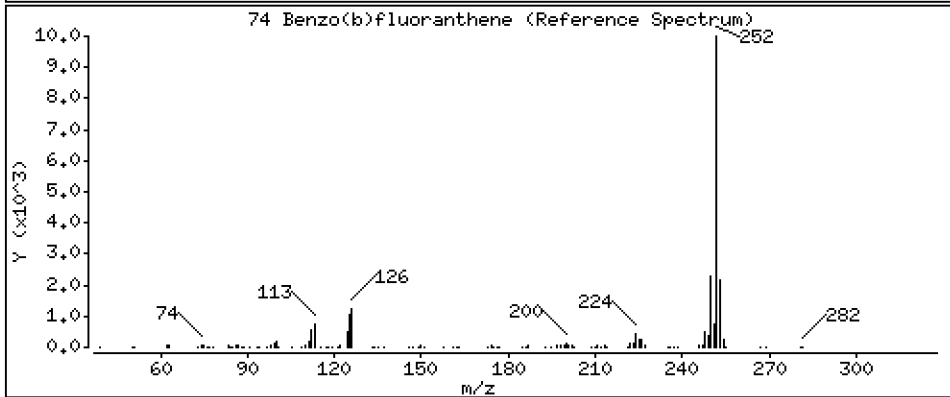
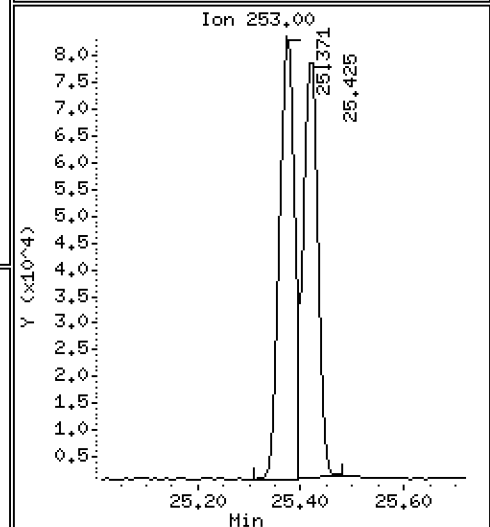
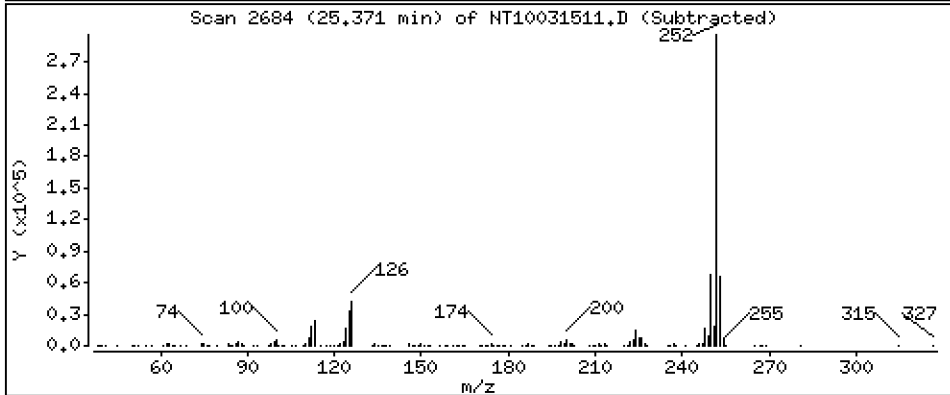
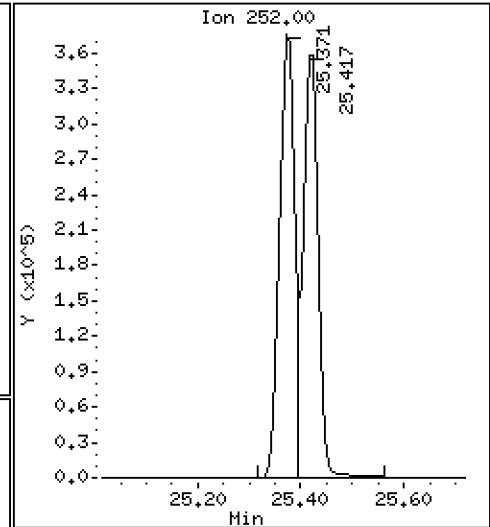
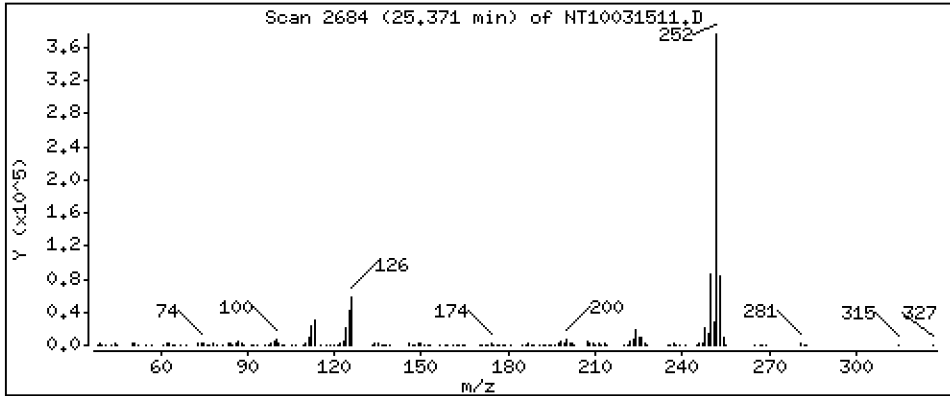
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,602 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

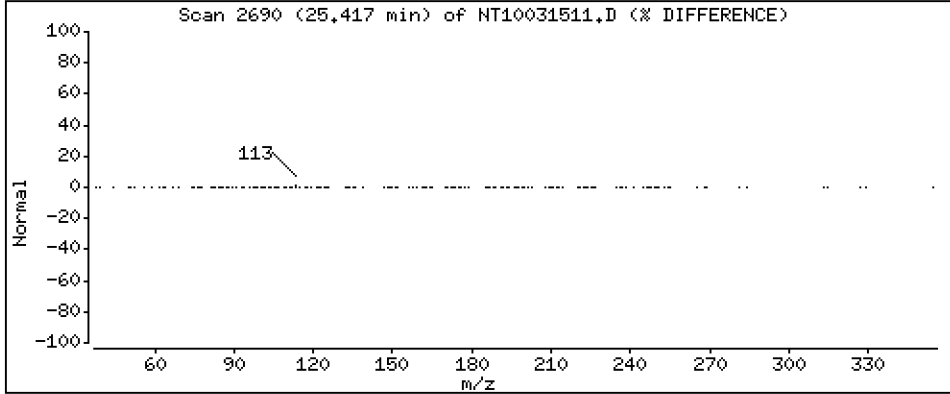
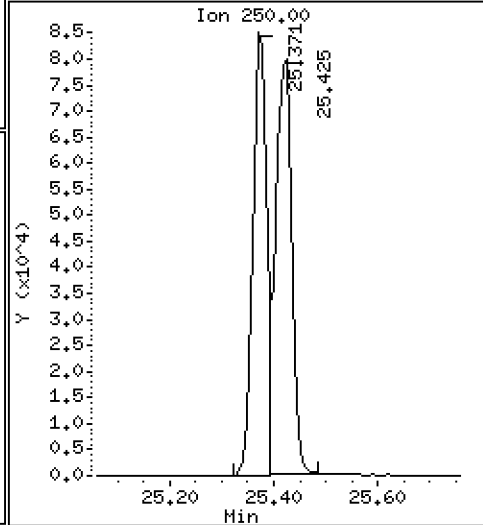
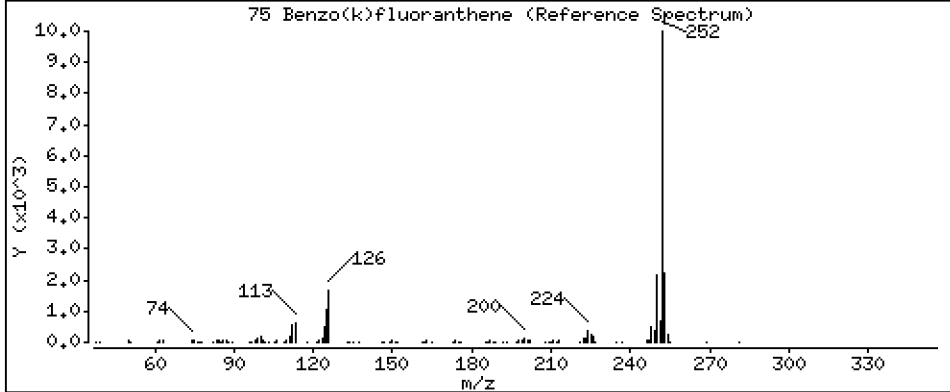
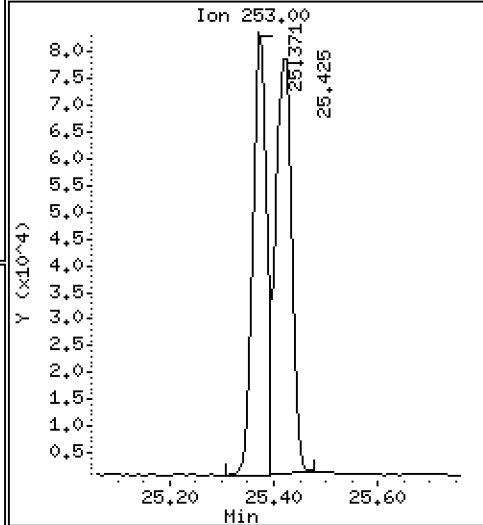
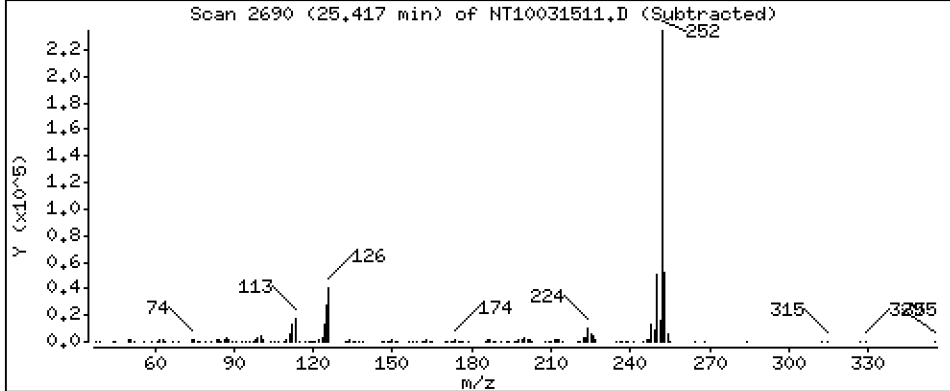
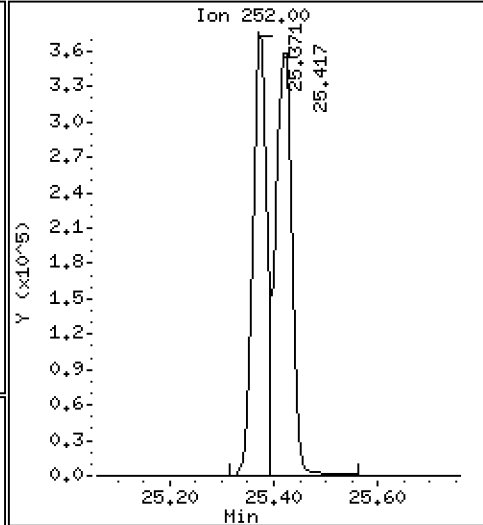
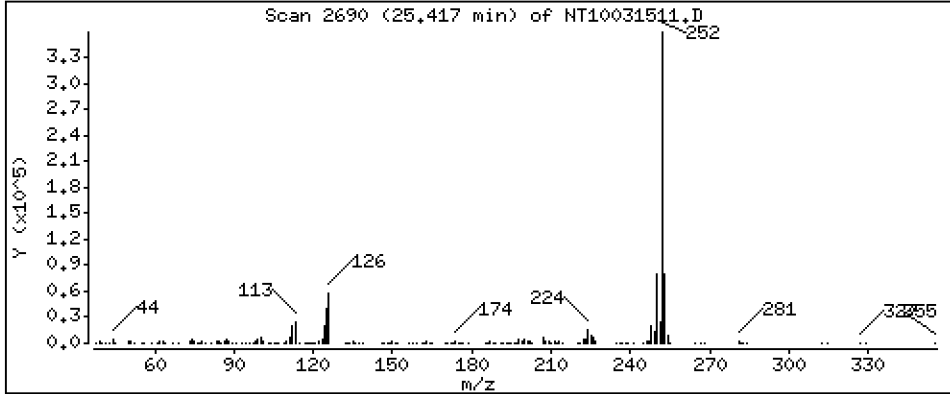
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,898 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

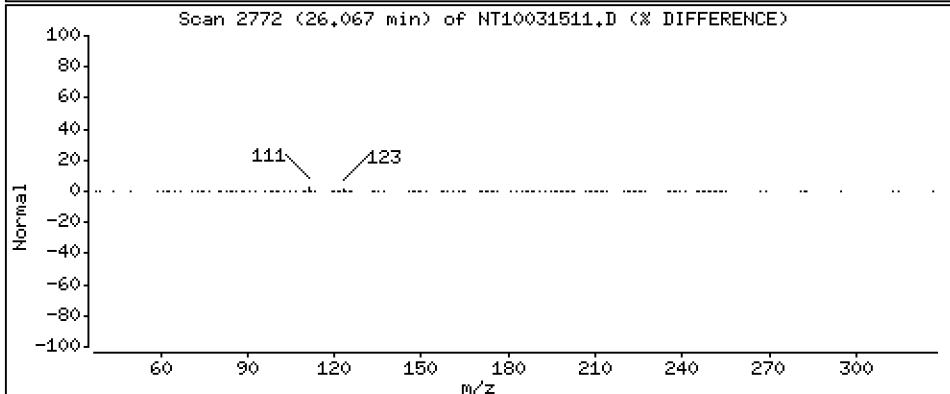
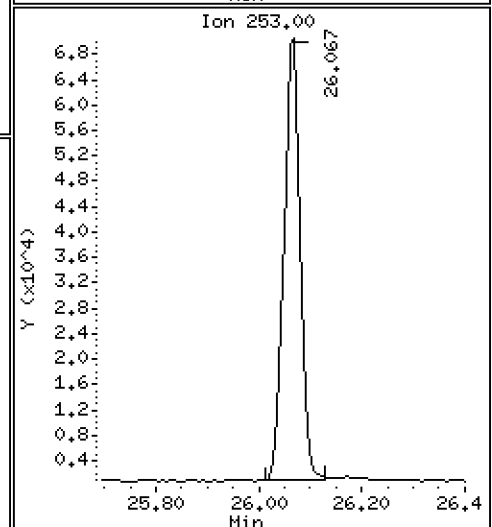
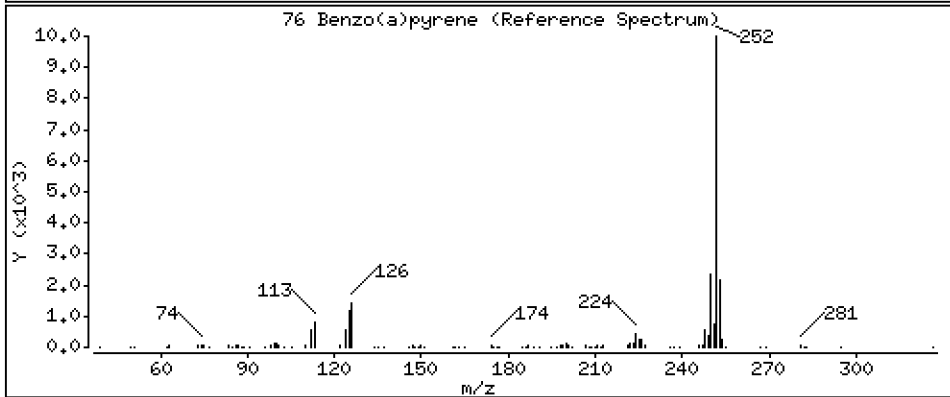
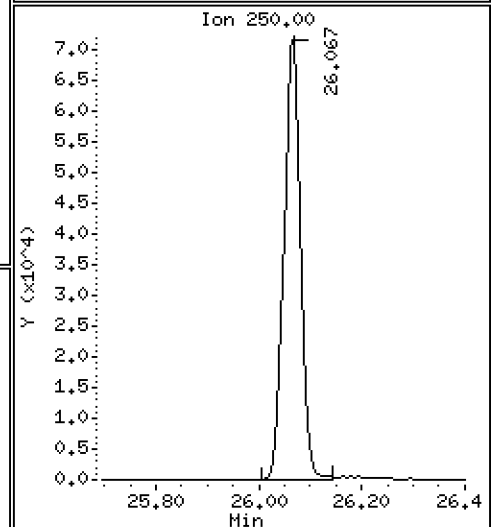
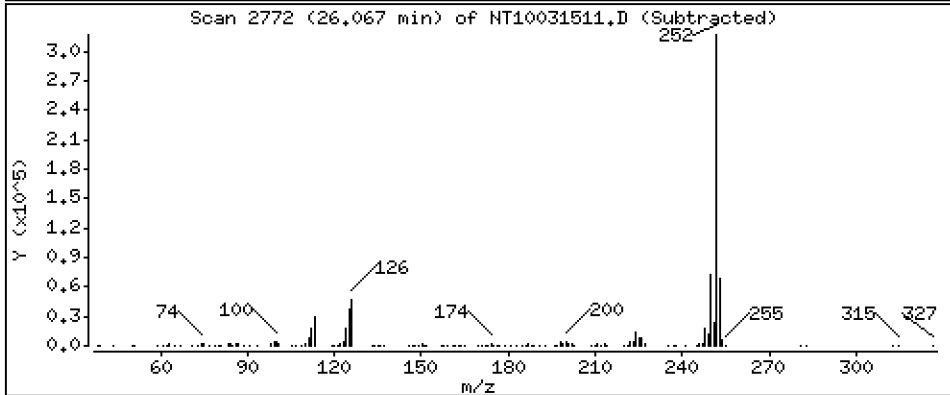
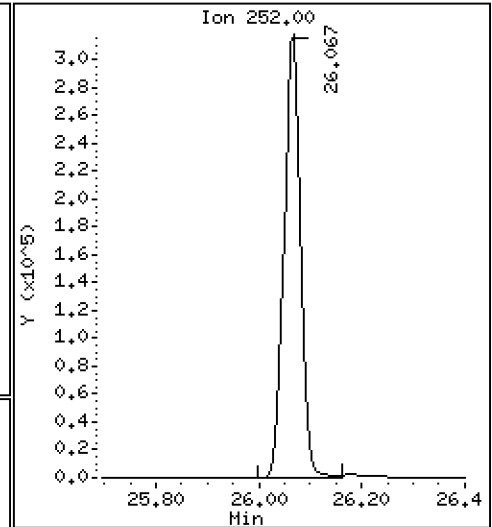
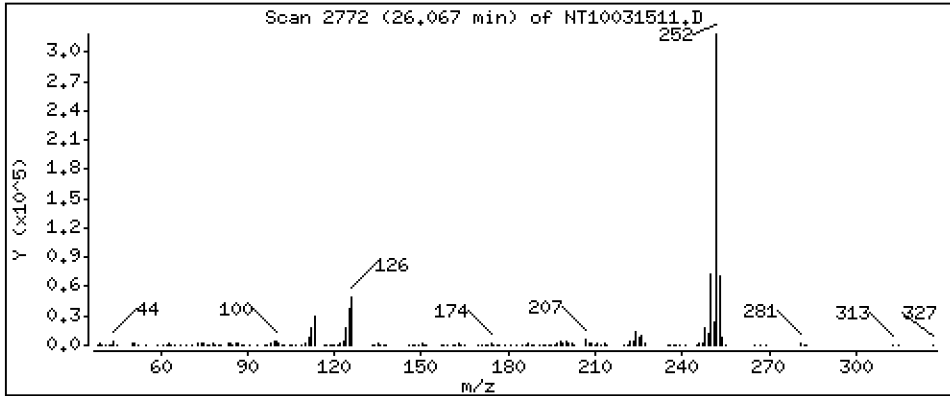
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,873 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

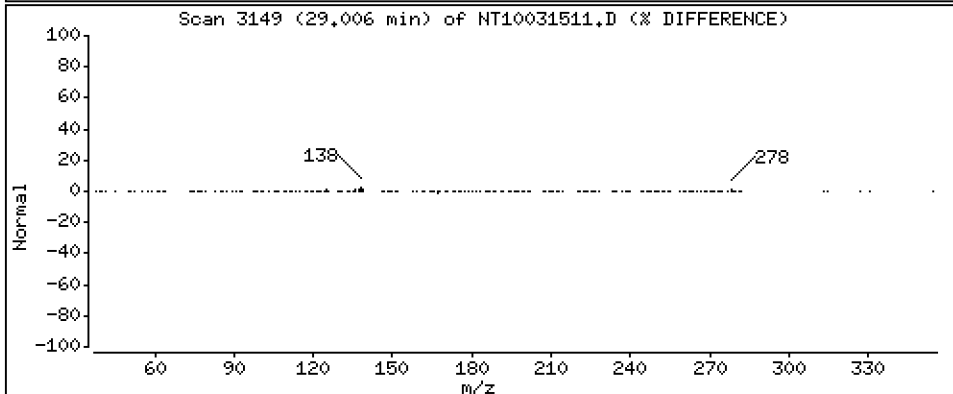
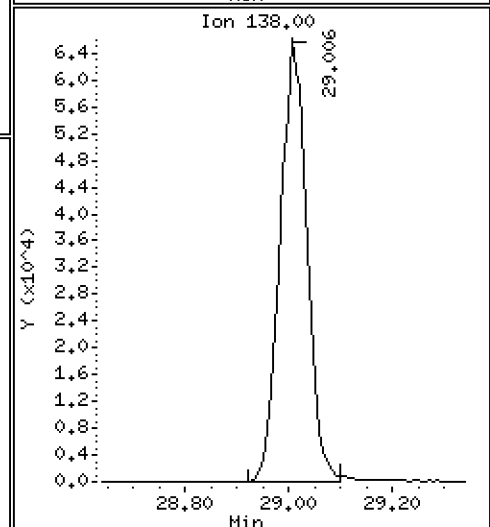
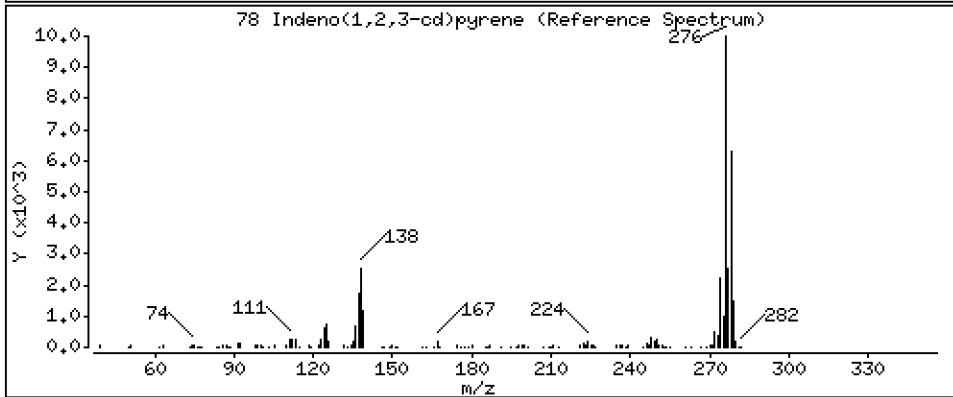
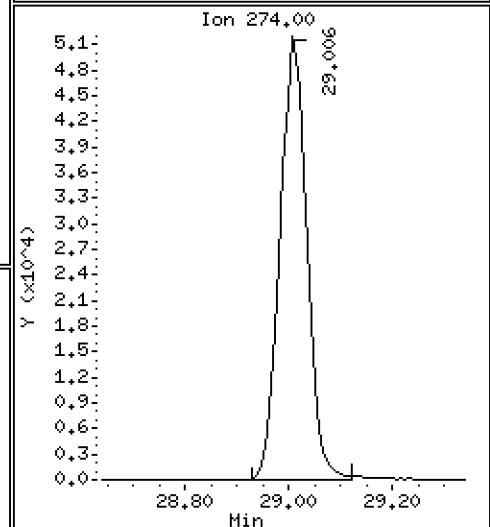
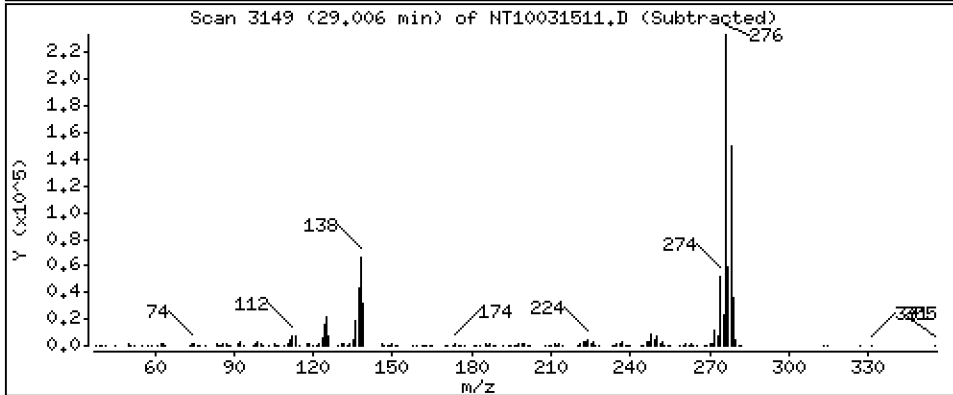
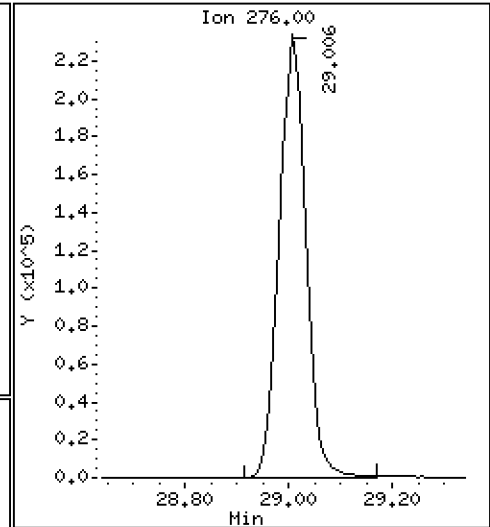
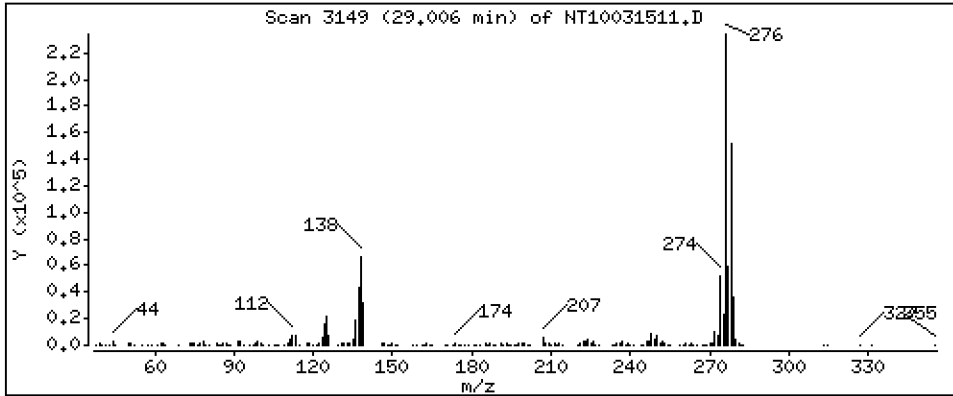
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 4,577 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

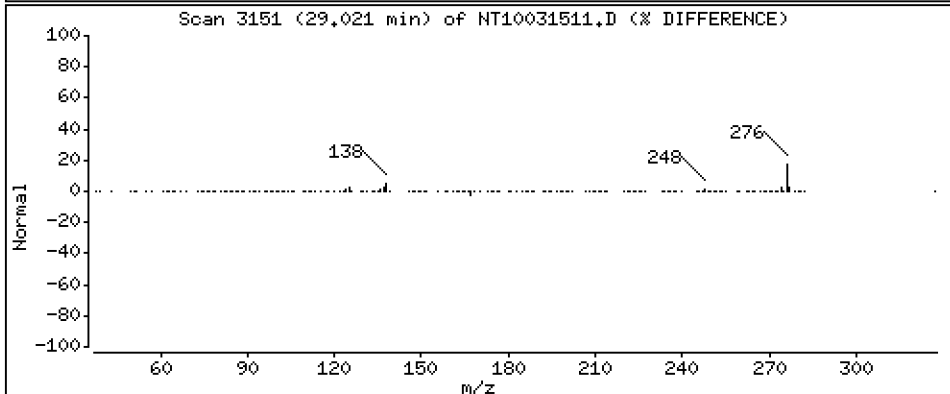
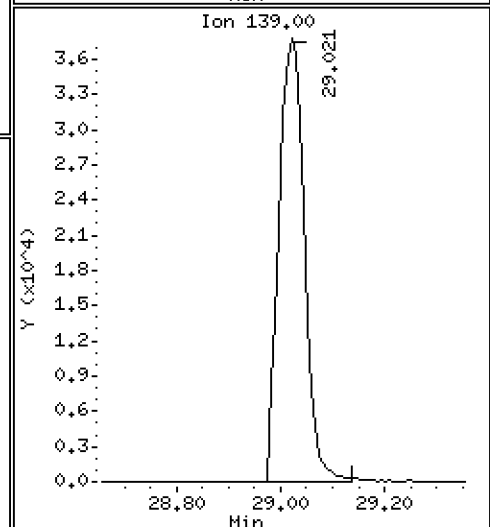
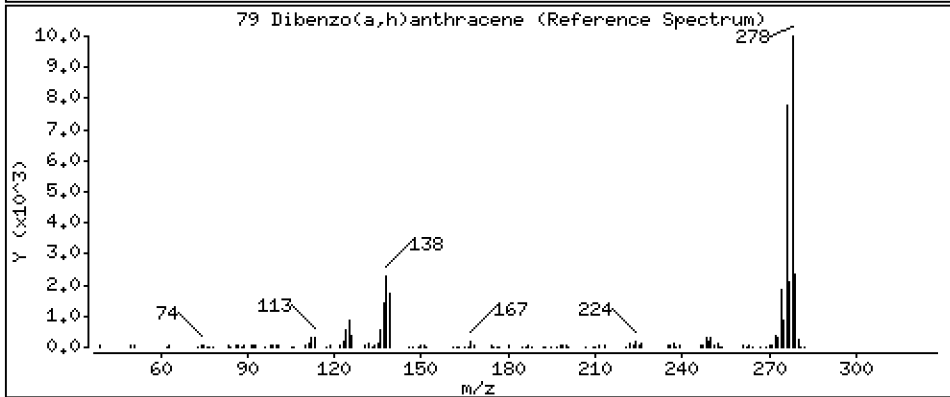
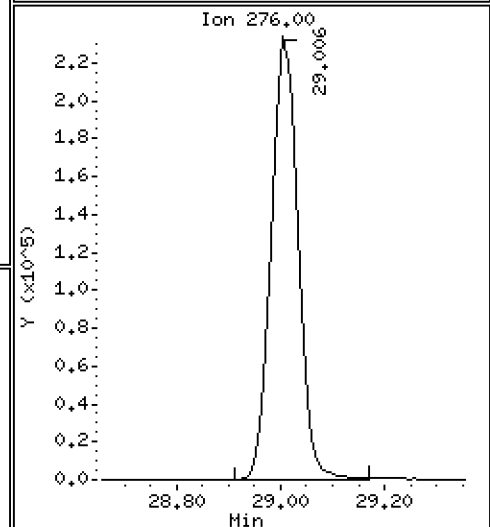
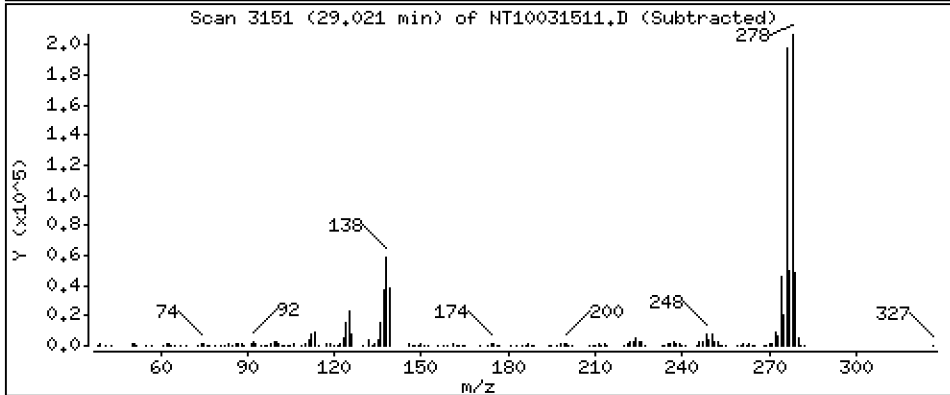
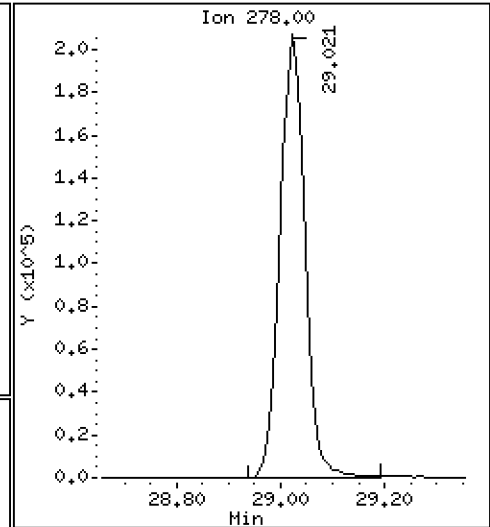
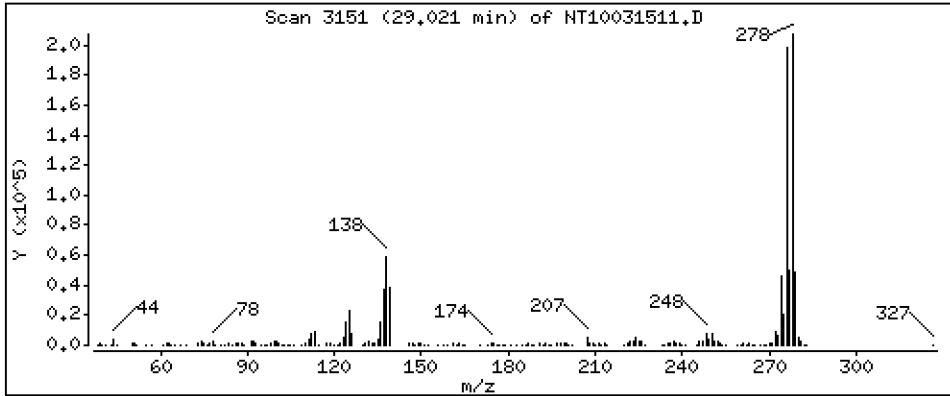
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,547 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

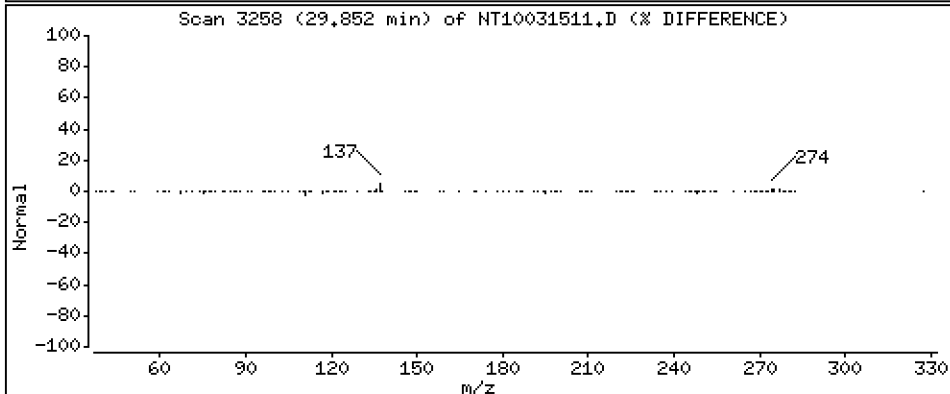
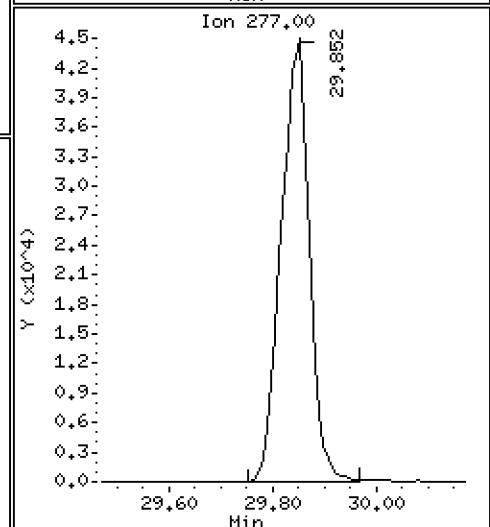
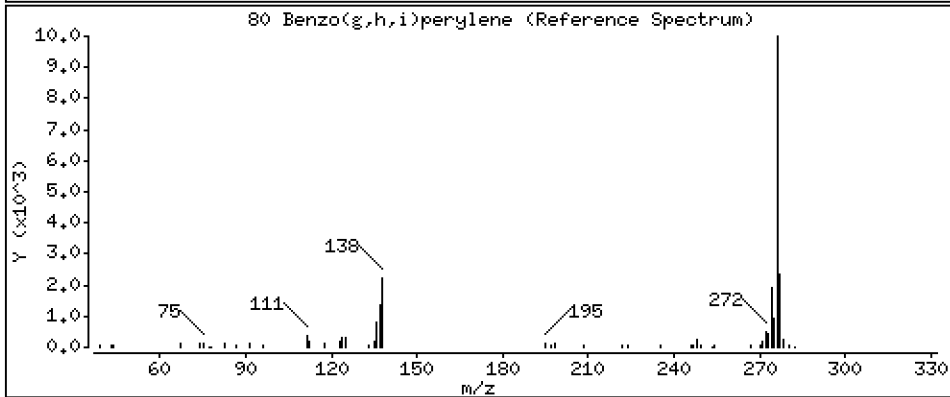
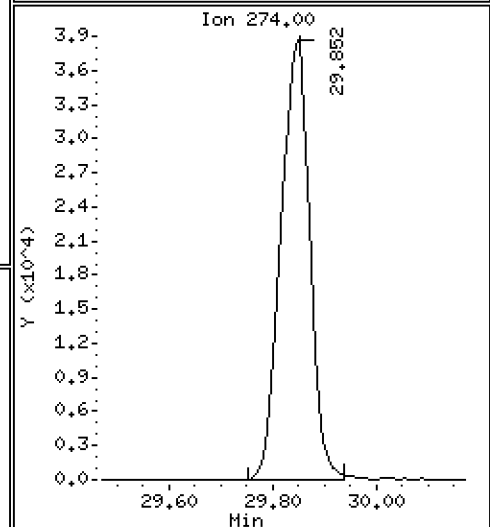
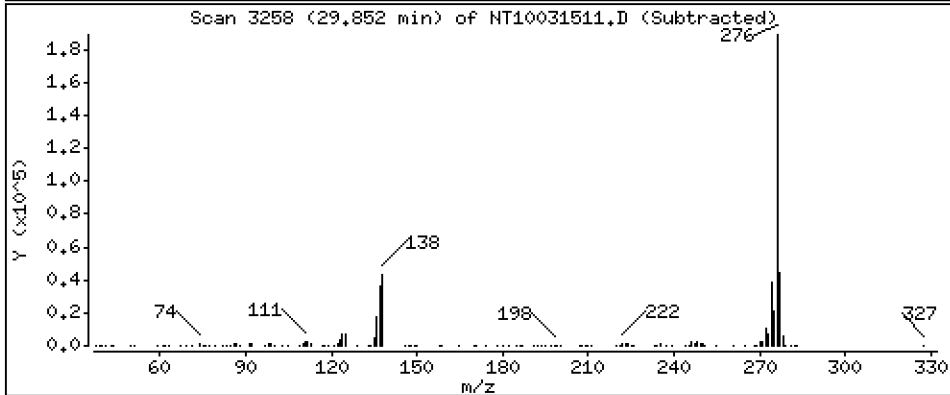
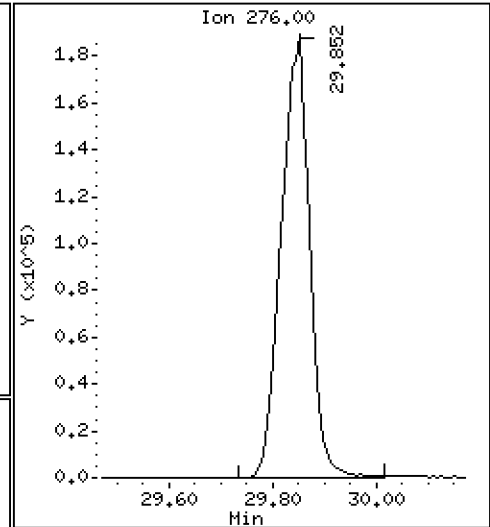
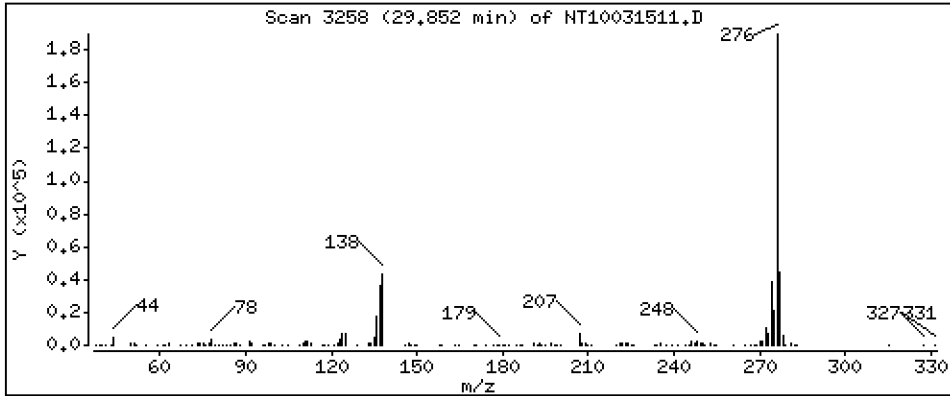
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,590 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

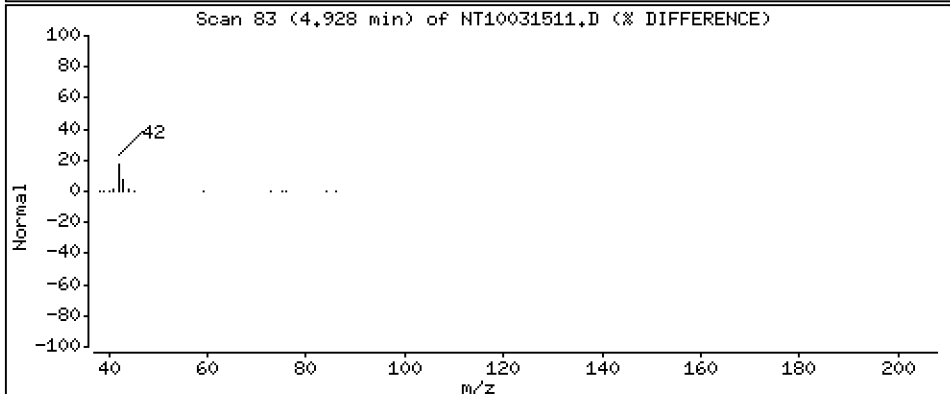
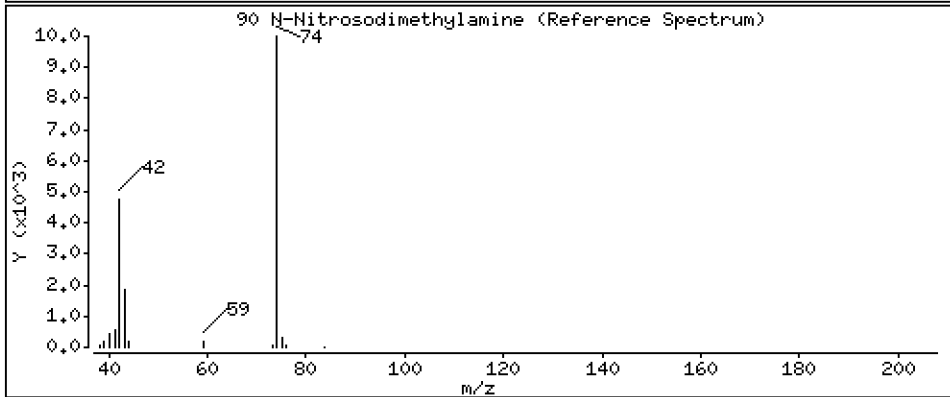
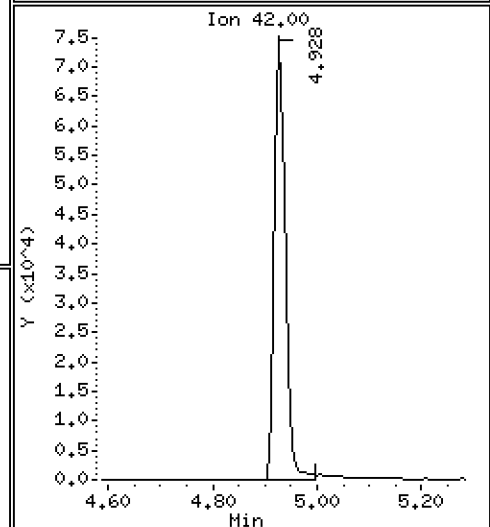
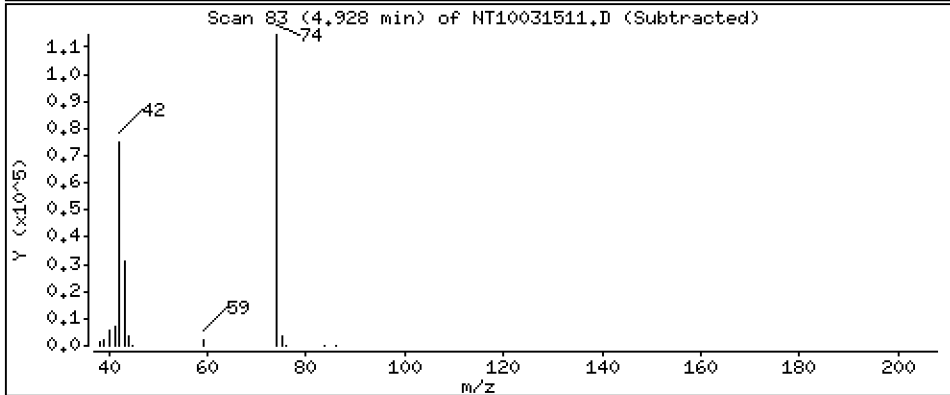
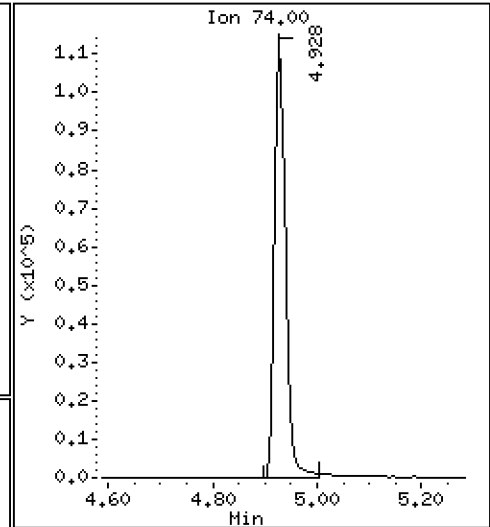
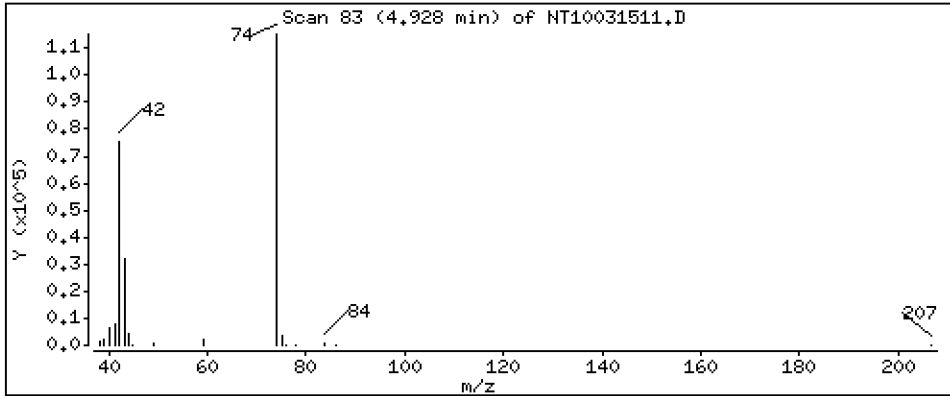
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 5.194 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

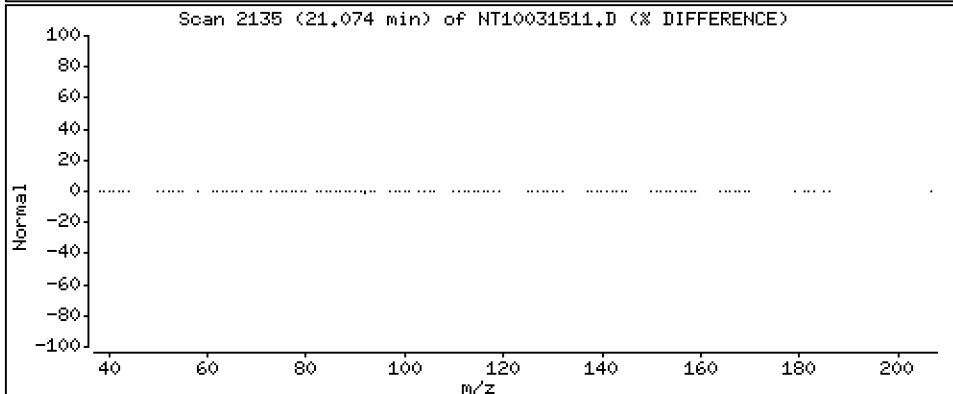
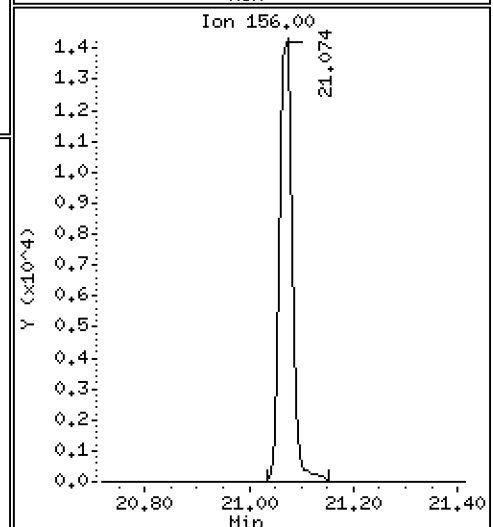
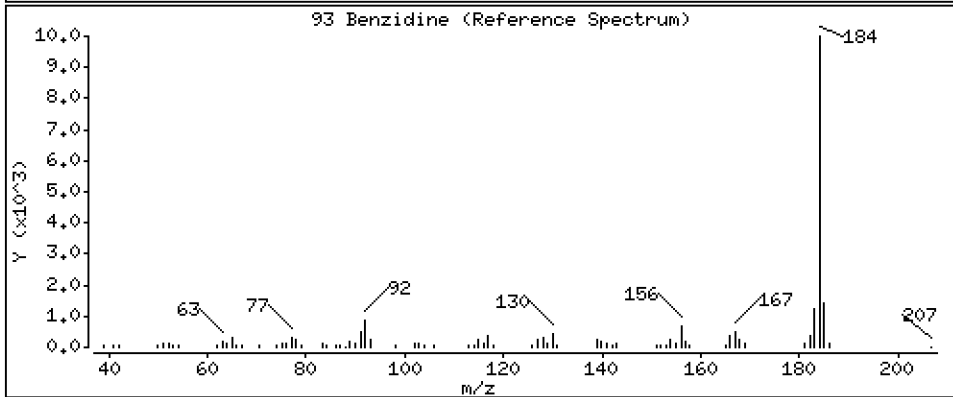
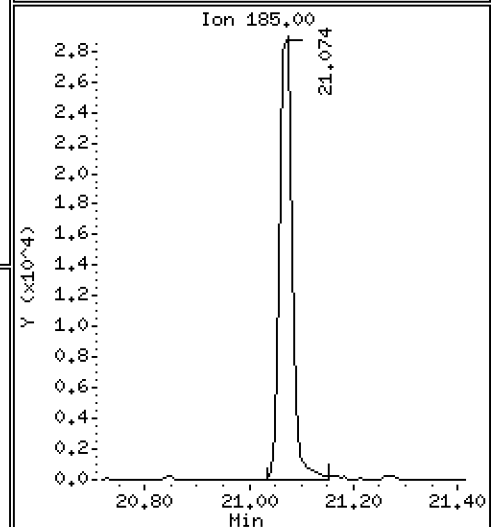
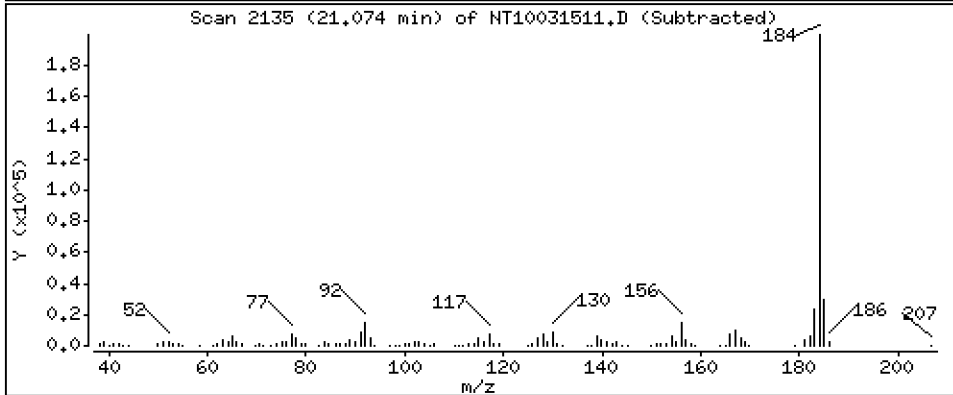
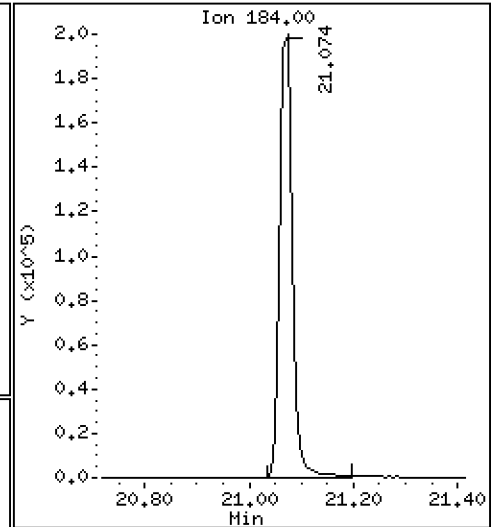
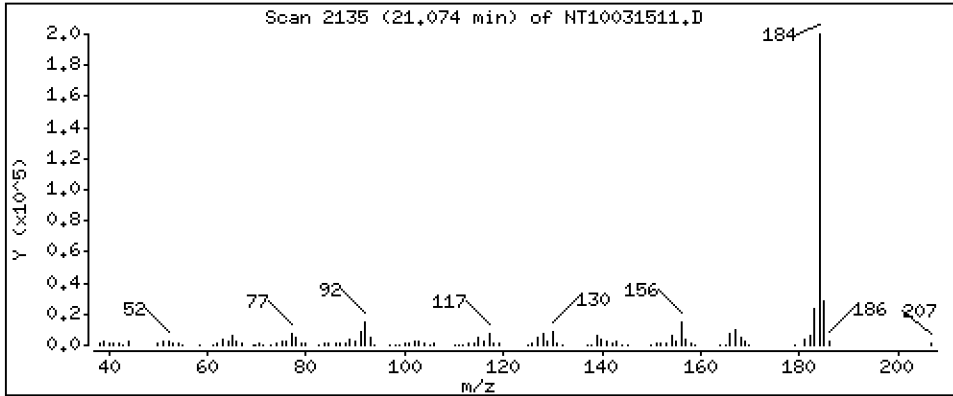
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 4,380 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

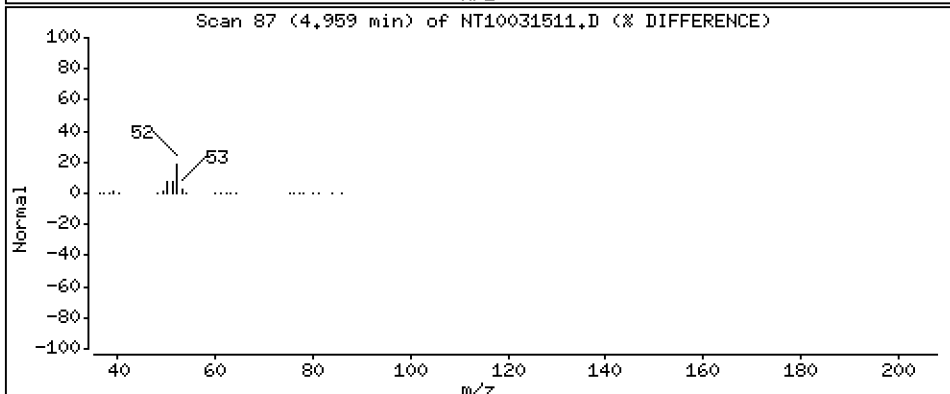
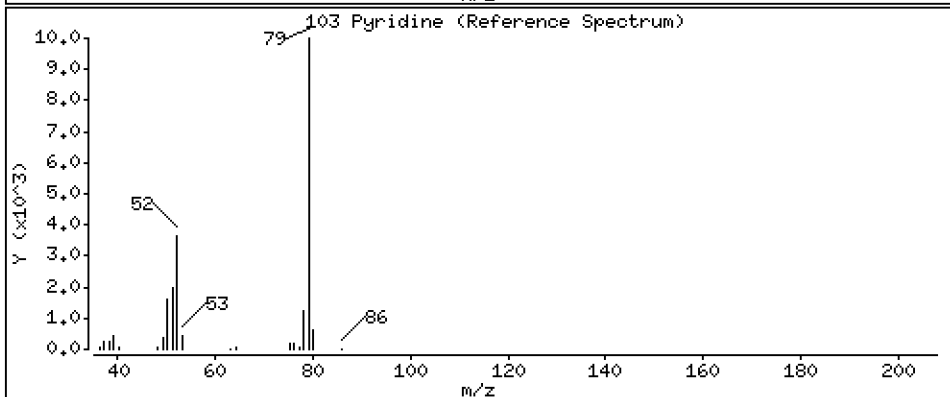
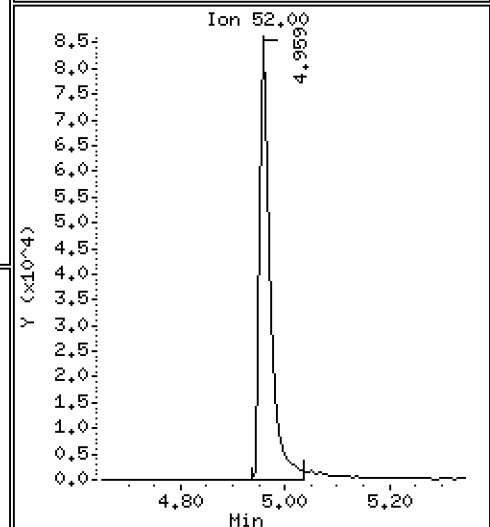
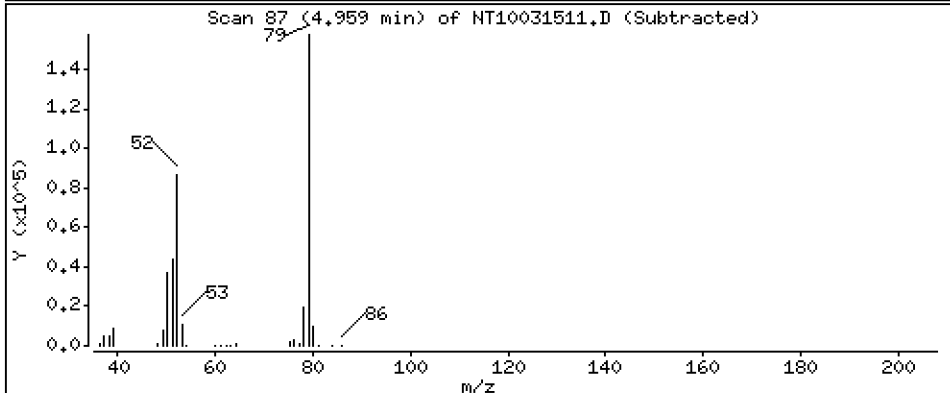
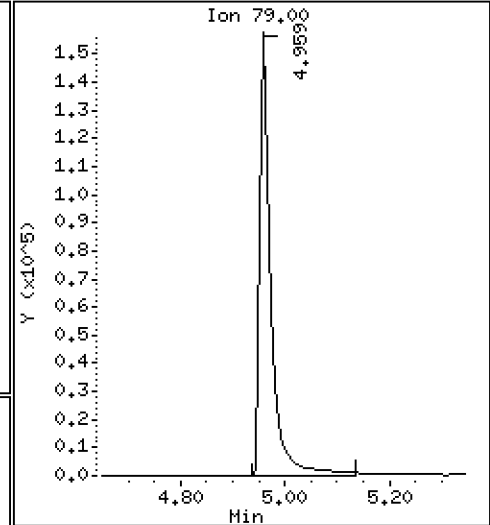
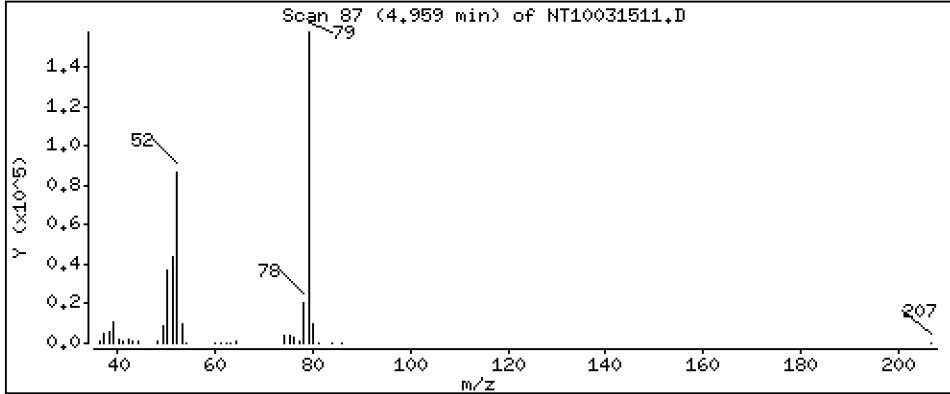
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

103 Pyridine

Concentration: 5.337 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

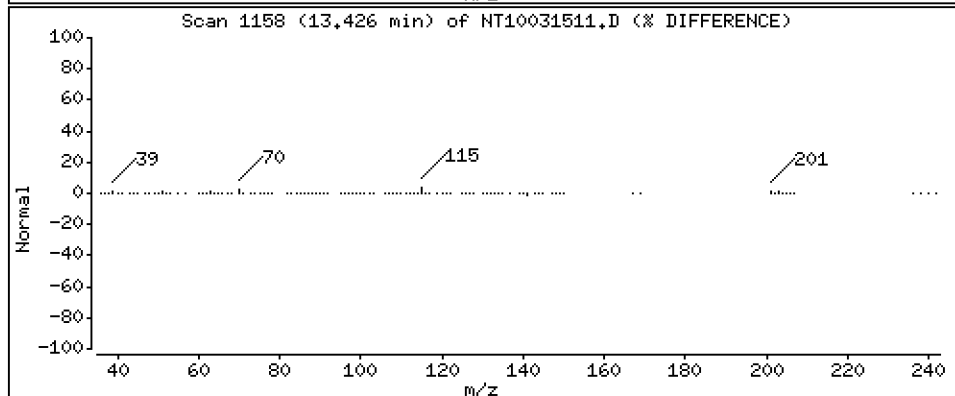
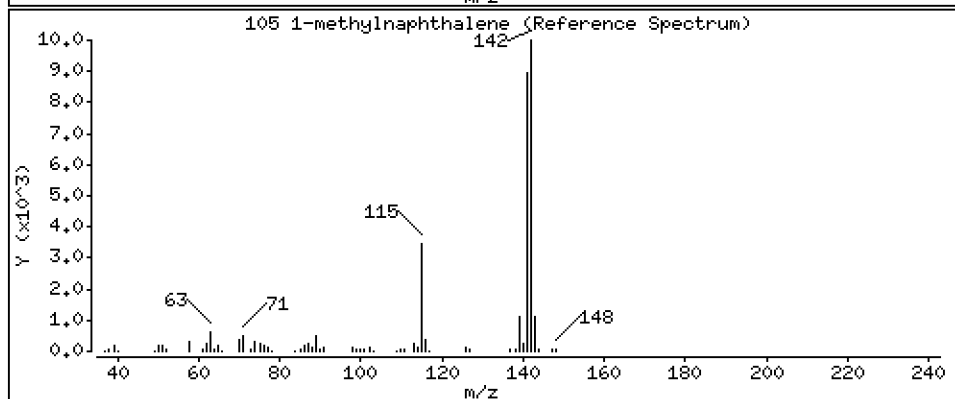
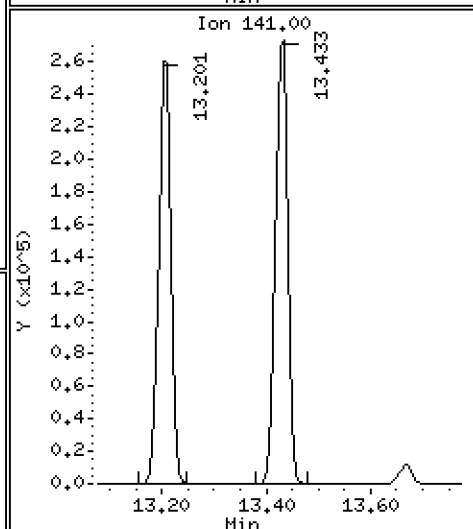
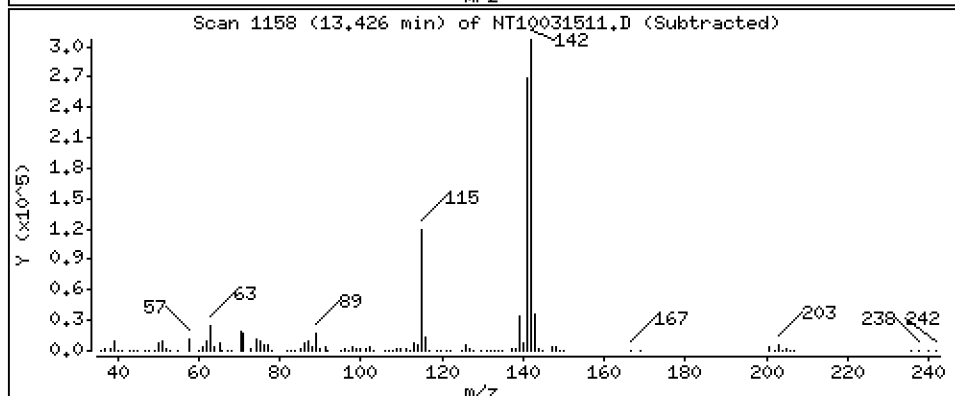
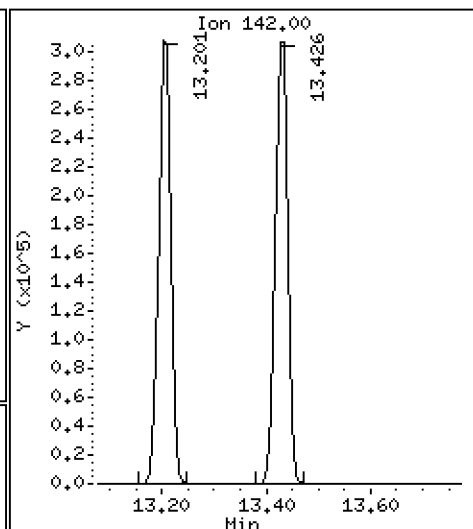
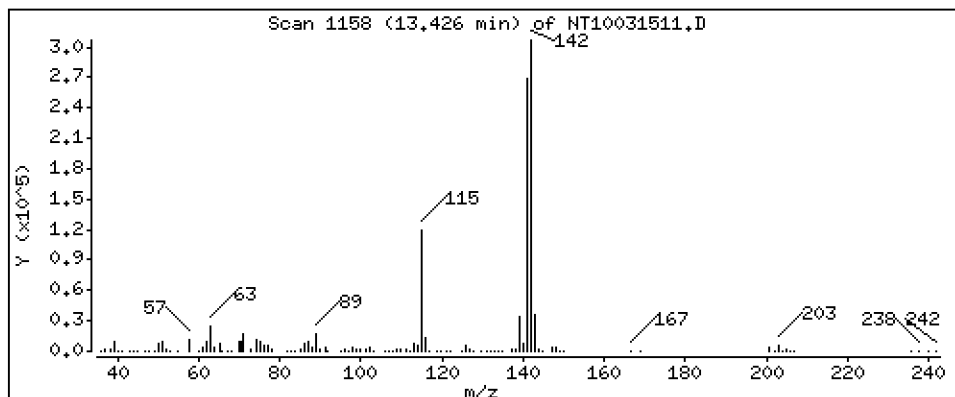
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,875 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

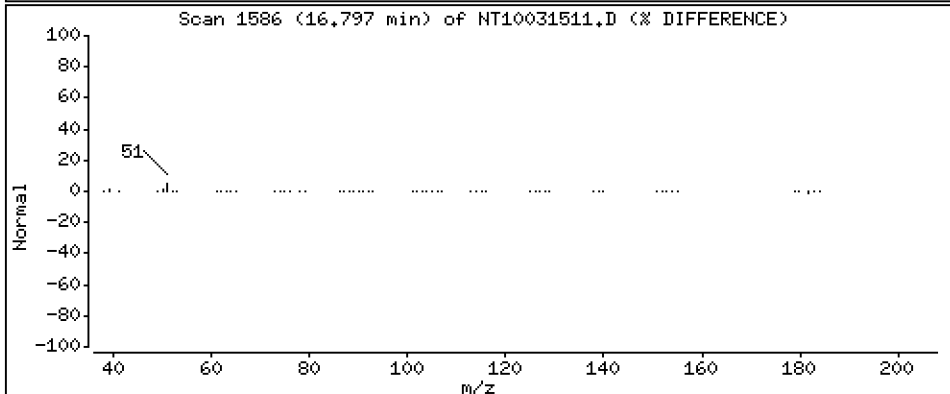
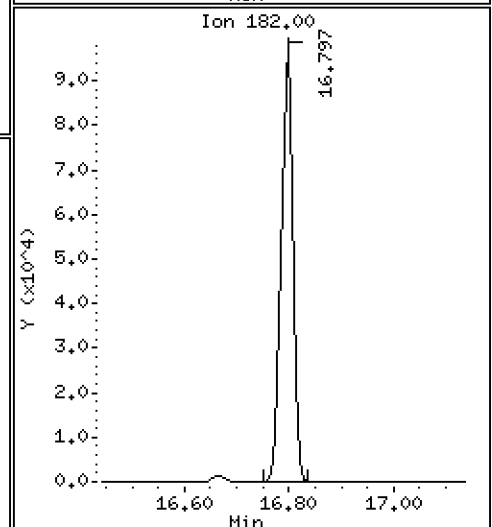
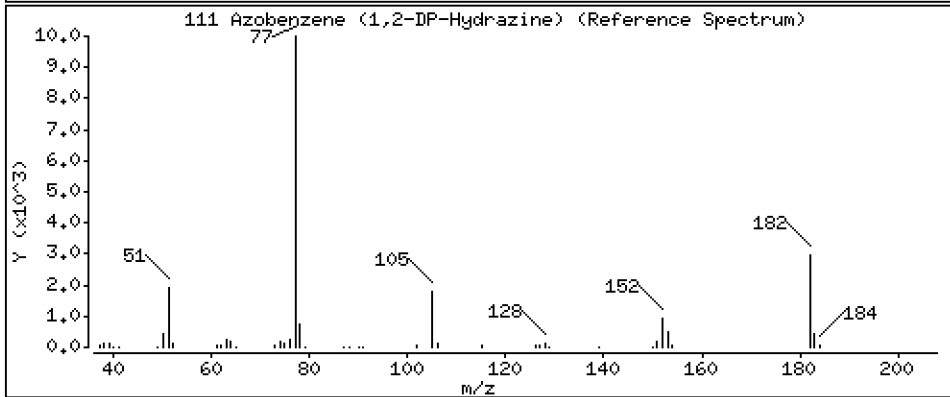
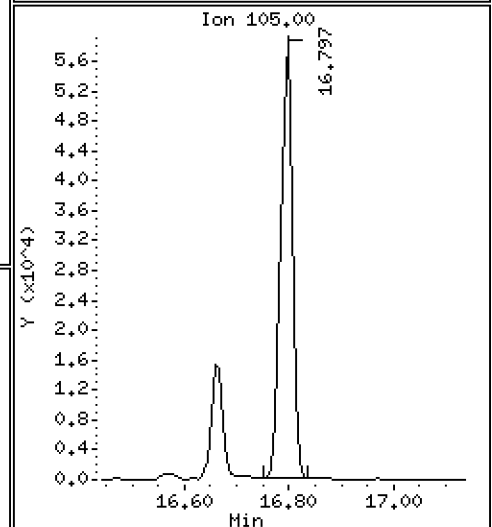
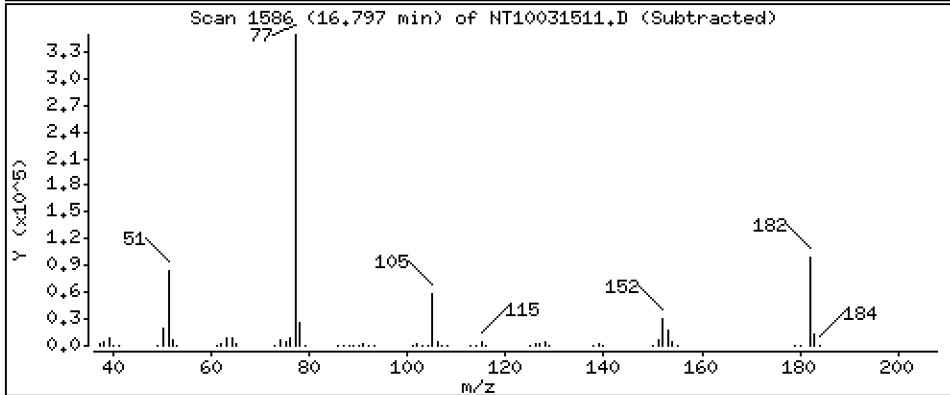
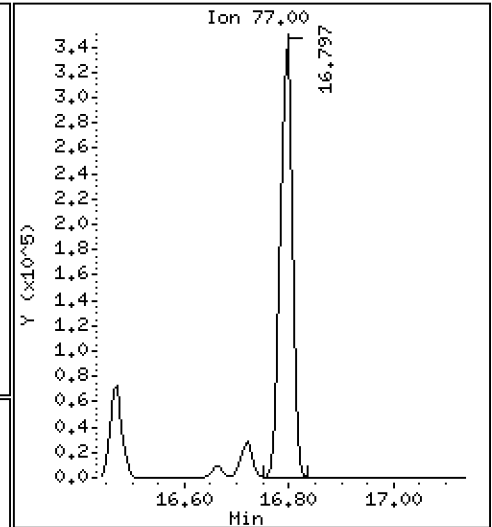
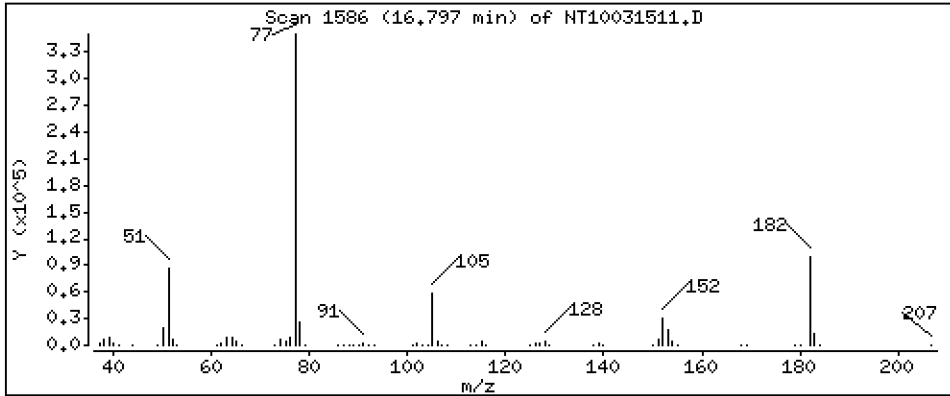
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4.937 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

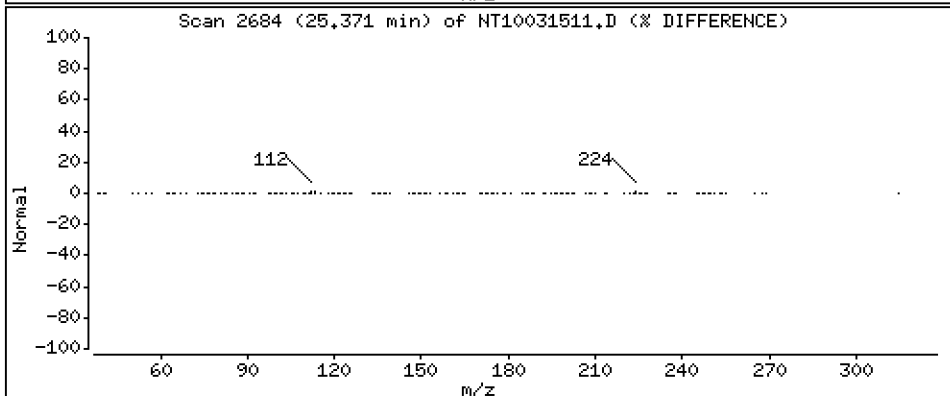
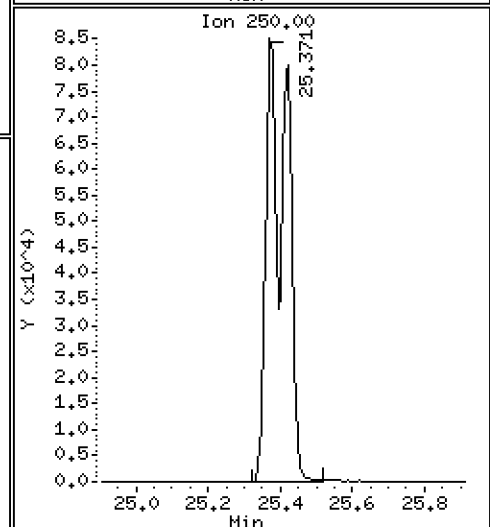
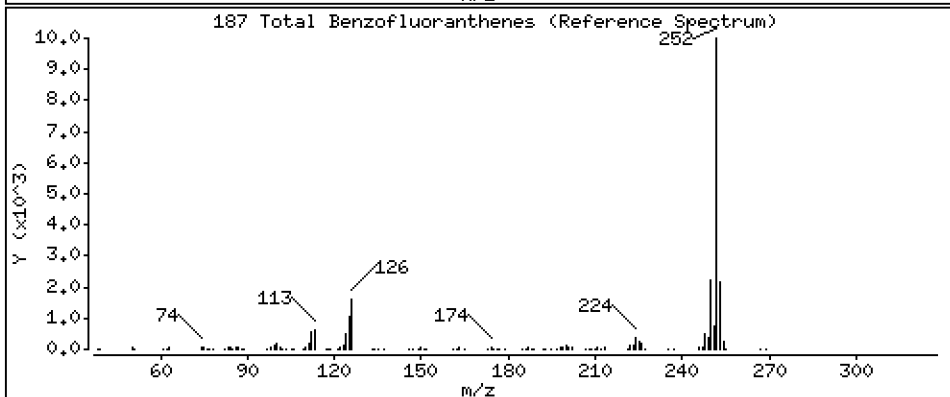
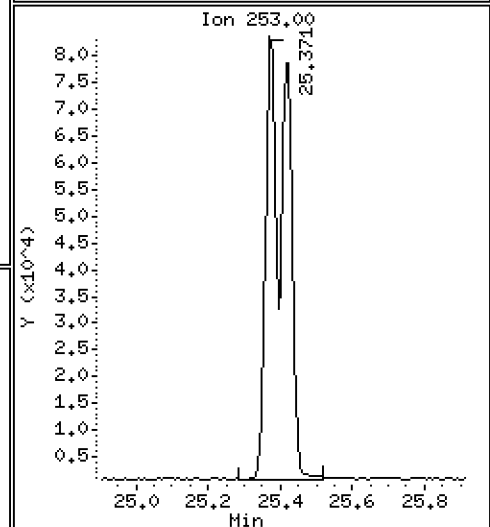
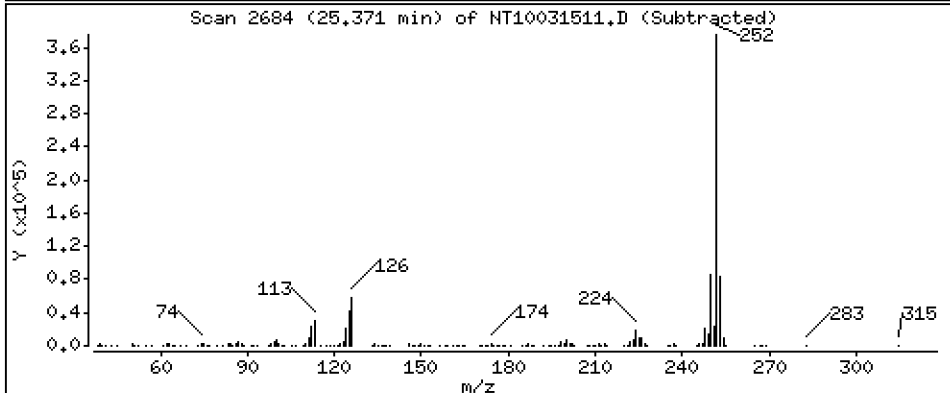
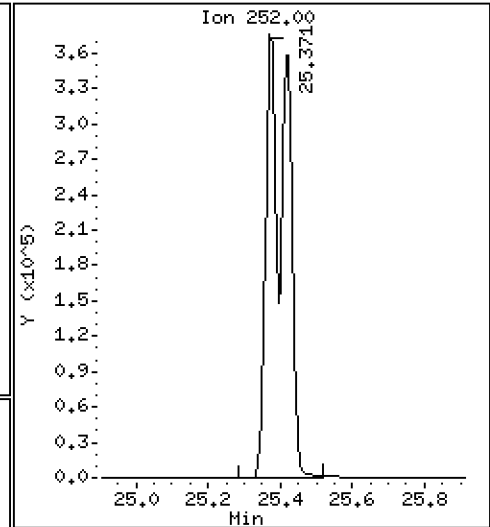
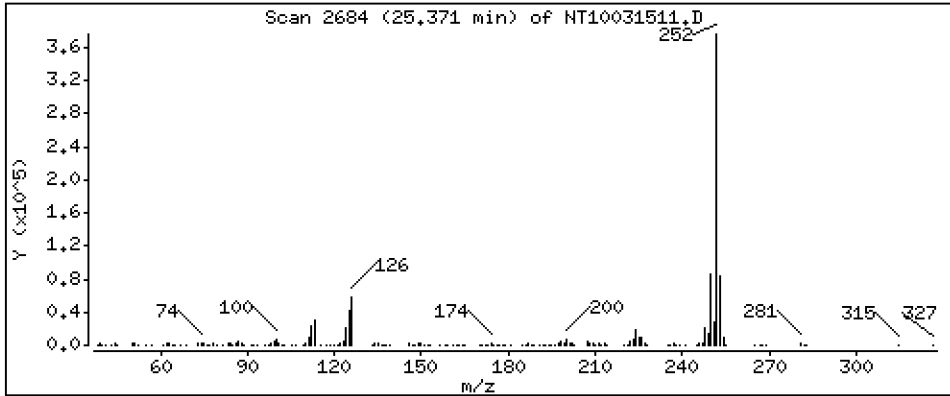
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,483 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

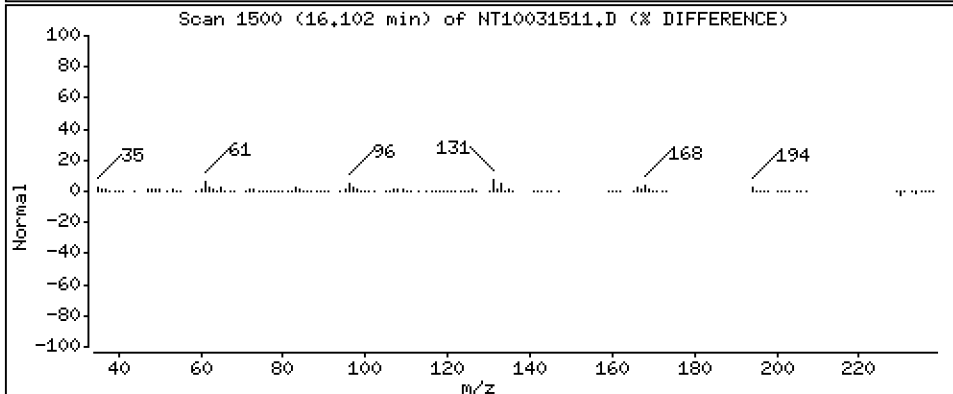
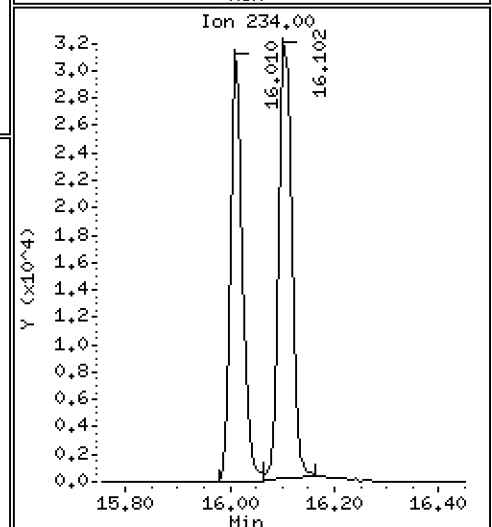
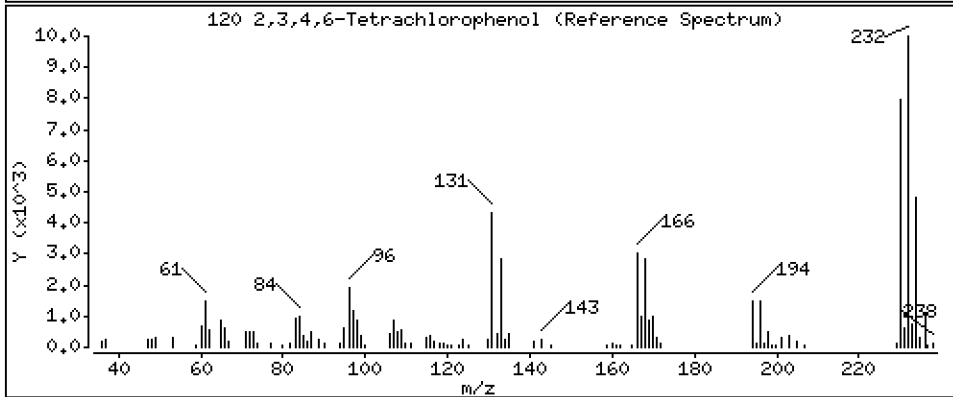
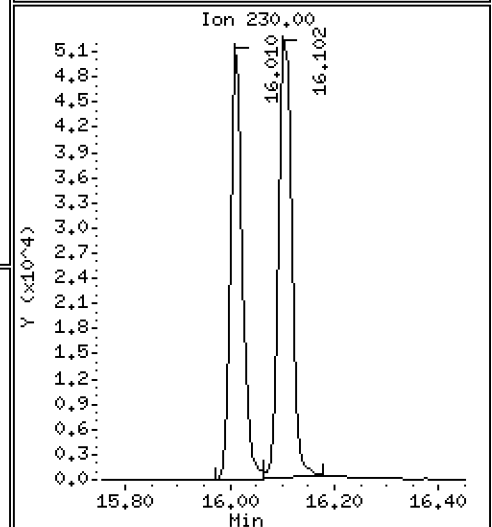
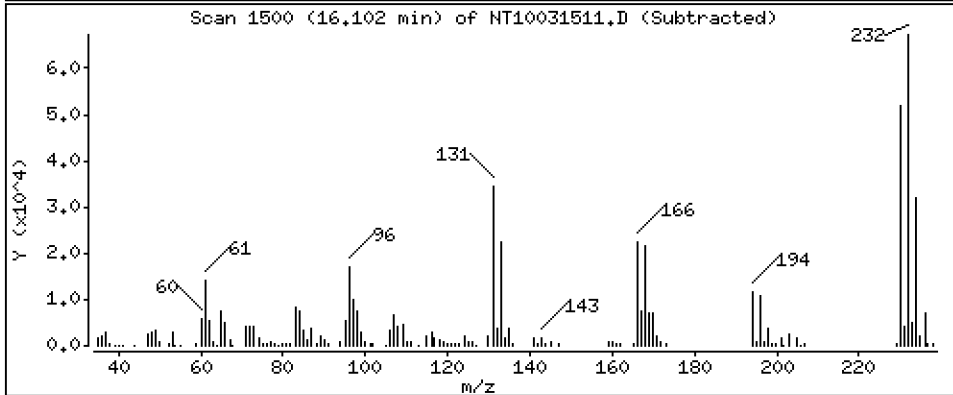
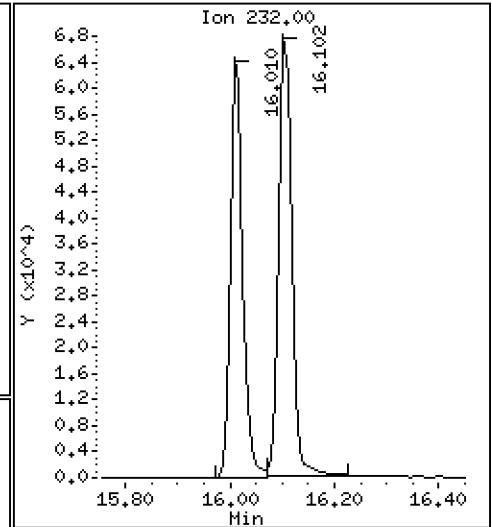
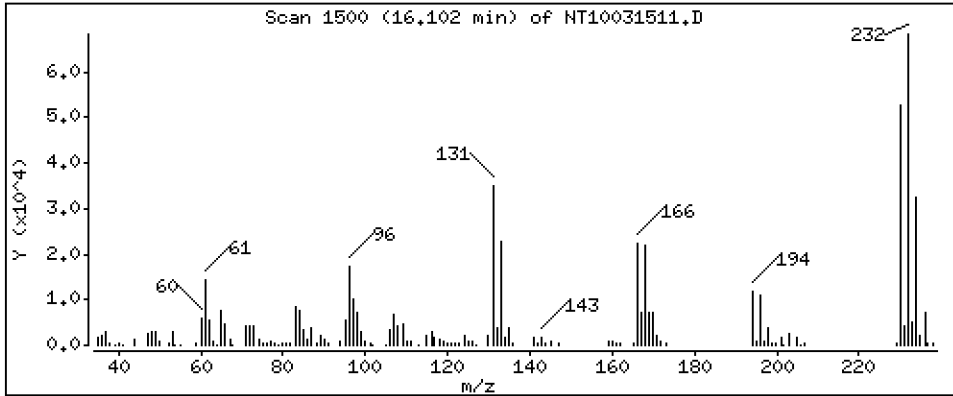
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,980 ug/mL





ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031511.D  
 Lab Smp Id: SLC0228-SCV1  
 Inj Date : 16-MAR-2023 02:16  
 Operator : VTS Inst ID: nt10.i  
 Smp Info : SLC0228-SCV1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD  
 Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE               | CONCENTRATIONS |         |
|---------------------------------|-------|-----|--------|--------|---------|------------------------|----------------|---------|
|                                 |       |     |        |        |         |                        | ON-COLUMN      | FINAL   |
|                                 | MASS  |     |        |        |         |                        | (ug/mL)        | (ug/mL) |
| =====                           | ====  |     | ====   | =====  | =====   | =====                  | =====          | =====   |
| \$ 1 2-Fluorophenol             | 112   |     |        |        |         | Compound Not Detected. |                |         |
| \$ 2 Phenol-d5                  | 99    |     |        |        |         | Compound Not Detected. |                |         |
| 3 Phenol                        | 94    |     | 8.659  | 8.652  | (0.931) | 281600                 | 4.41237        | 4.412   |
| \$ 5 2-Chlorophenol-d4          | 132   |     |        |        |         | Compound Not Detected. |                |         |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.837  | 8.837  | (0.950) | 248892                 | 5.25818        | 5.258   |
| 6 2-Chlorophenol                | 128   |     | 8.960  | 8.961  | (0.963) | 233608                 | 4.27685        | 4.277   |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.239  | 9.231  | (0.993) | 275540                 | 4.77157        | 4.772   |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.301  | 9.293  | (1.000) | 154809                 | 4.00000        |         |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.332  | 9.325  | (1.003) | 274051                 | 4.91272        | 4.913   |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     |        |        |         | Compound Not Detected. |                |         |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.689  | 9.682  | (1.042) | 268028                 | 4.88215        | 4.882   |
| 11 Benzyl alcohol               | 108   |     | 9.557  | 9.557  | (1.028) | 147597                 | 4.92722        | 4.927   |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.860  | 9.860  | (1.060) | 100179                 | 6.21363        | 6.214   |
| 13 2-Methylphenol               | 108   |     | 9.775  | 9.767  | (1.051) | 196115                 | 4.21542        | 4.215   |
| 17 Hexachloroethane             | 117   |     | 10.279 | 10.271 | (1.105) | 114513                 | 5.00332        | 5.003   |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 10.116 | 10.108 | (1.088) | 190250                 | 5.17896        | 5.179   |
| 15 4-Methylphenol               | 108   |     | 10.046 | 10.031 | (1.080) | 213951                 | 4.36462        | 4.365   |
| \$ 18 Nitrobenzene-d5           | 82    |     |        |        |         | Compound Not Detected. |                |         |
| 19 Nitrobenzene                 | 77    |     | 10.426 | 10.419 | (0.885) | 274714                 | 4.85798        | 4.858   |
| 20 Isophorone                   | 82    |     | 10.861 | 10.861 | (0.922) | 556741                 | 7.69604        | 7.696   |
| 21 2-Nitrophenol                | 139   |     | 11.047 | 11.048 | (0.938) | 110302                 | 3.99452        | 3.995   |
| 22 2,4-Dimethylphenol           | 107   |     | 11.081 | 11.082 | (0.941) | 188638                 | 3.63181        | 3.632   |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.285 | 11.285 | (0.958) | 273219                 | 5.65409        | 5.654   |
| 24 Benzoic acid                 | 105   |     | 11.217 | 11.166 | (0.952) | 173961                 | 5.95241        | 5.952   |
| 25 2,4-Dichlorophenol           | 162   |     | 11.489 | 11.489 | (0.975) | 195480                 | 4.70301        | 4.703   |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.685 | 11.685 | (0.992) | 222176                 | 4.55366        | 4.554   |
| * 27 Naphthalene-d8             | 136   |     | 11.777 | 11.770 | (1.000) | 570882                 | 4.00000        |         |
| 28 Naphthalene                  | 128   |     | 11.816 | 11.816 | (1.003) | 713318                 | 4.71662        | 4.717   |
| 29 4-Chloroaniline              | 127   |     | 11.940 | 11.940 | (1.014) | 223402                 | 3.78650        | 3.787   |
| 30 Hexachlorobutadiene          | 225   |     | 12.171 | 12.172 | (1.033) | 138198                 | 4.83404        | 4.834   |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.876 | 12.876 | (1.093) | 208794                 | 4.64027        | 4.640   |
| 32 2-Methylnaphthalene          | 142   |     | 13.201 | 13.201 | (1.121) | 501627                 | 4.59617        | 4.596   |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.665 | 13.665 | (0.888) | 132827                 | 4.72902        | 4.729   |

| Compounds                         | QUANT | SIG |                        |        |         |        |          | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|------------------------|--------|---------|--------|----------|----------------------|------------------|
|                                   |       |     | MASS                   | RT     | EXP RT  | REL RT | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     | 13.820                 | 13.820 | (0.898) | 137849 | 4.59559  | 4.596                |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     | 13.889                 | 13.890 | (0.903) | 146935 | 4.40855  | 4.409                |                  |
| § 36 2-Fluorobiphenyl             | 172   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 37 2-Chloronaphthalene            | 162   |     | 14.199                 | 14.191 | (0.923) | 466196 | 4.79589  | 4.796                |                  |
| 38 2-Nitroaniline                 | 65    |     | 14.454                 | 14.447 | (0.940) | 134108 | 4.91137  | 4.911                |                  |
| 39 Dimethylphthalate              | 163   |     | 14.880                 | 14.873 | (0.967) | 486790 | 4.93747  | 4.937                |                  |
| 40 Acenaphthylene                 | 152   |     | 15.074                 | 15.066 | (0.980) | 727839 | 4.80509  | 4.805                |                  |
| 41 2,6-Dinitrotoluene             | 165   |     | 15.020                 | 15.012 | (0.976) | 112840 | 5.29815  | 5.298                |                  |
| * 42 Acenaphthene-d10             | 164   |     | 15.383                 | 15.383 | (1.000) | 303490 | 4.00000  |                      |                  |
| 43 3-Nitroaniline                 | 138   |     | 15.306                 | 15.298 | (0.995) | 120530 | 5.01393  | 5.014                |                  |
| 44 Acenaphthene                   | 153   |     | 15.453                 | 15.445 | (1.005) | 446914 | 4.77589  | 4.776                |                  |
| 45 2,4-Dinitrophenol              | 184   |     | 15.515                 | 15.515 | (1.009) | 27409  | 2.12395  | 2.124                |                  |
| 46 Dibenzofuran                   | 168   |     | 15.777                 | 15.770 | (1.026) | 641379 | 4.64790  | 4.648                |                  |
| 47 4-Nitrophenol                  | 109   |     | 15.600                 | 15.592 | (1.014) | 59816  | 3.96568  | 3.966                |                  |
| 48 2,4-Dinitrotoluene             | 165   |     | 15.824                 | 15.817 | (1.029) | 144262 | 4.51019  | 4.510                |                  |
| 50 Diethylphthalate               | 149   |     | 16.326                 | 16.319 | (1.061) | 503887 | 5.20905  | 5.209                |                  |
| 49 Fluorene                       | 166   |     | 16.489                 | 16.481 | (1.072) | 511113 | 4.70796  | 4.708                |                  |
| 51 4-Chlorophenyl-phenylether     | 204   |     | 16.473                 | 16.466 | (1.071) | 257762 | 4.99294  | 4.993                |                  |
| 52 4-Nitroaniline                 | 138   |     | 16.566                 | 16.566 | (1.077) | 106701 | 4.92532  | 4.925                |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     | 16.666                 | 16.658 | (0.905) | 56867  | 3.51509  | 3.515                |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     | 16.720                 | 16.712 | (0.908) | 342454 | 4.80180  | 4.802                |                  |
| § 55 2,4,6-Tribromophenol         | 330   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 56 4-Bromophenyl-phenylether      | 248   |     | 17.475                 | 17.476 | (0.949) | 150956 | 5.05964  | 5.060                |                  |
| 57 Hexachlorobenzene              | 284   |     | 17.800                 | 17.793 | (0.966) | 143751 | 4.59553  | 4.596                |                  |
| 58 Pentachlorophenol              | 266   |     | 18.149                 | 18.149 | (0.985) | 75635  | 4.05676  | 4.057                |                  |
| * 59 Phenanthrene-d10             | 188   |     | 18.420                 | 18.420 | (1.000) | 533431 | 4.00000  |                      |                  |
| 60 Phenanthrene                   | 178   |     | 18.466                 | 18.466 | (1.003) | 669357 | 4.60181  | 4.602                |                  |
| 61 Anthracene                     | 178   |     | 18.559                 | 18.559 | (1.008) | 581438 | 4.16715  | 4.167                |                  |
| 62 Carbazole                      | 167   |     | 18.884                 | 18.884 | (1.025) | 591382 | 4.72989  | 4.730                |                  |
| 63 Di-n-butylphthalate            | 149   |     | 19.665                 | 19.666 | (1.068) | 830680 | 4.96738  | 4.967                |                  |
| 64 Fluoranthene                   | 202   |     | 20.841                 | 20.841 | (0.888) | 782432 | 4.47248  | 4.472                |                  |
| 65 Pyrene                         | 202   |     | 21.267                 | 21.267 | (0.907) | 778668 | 4.33892  | 4.339                |                  |
| § 66 Terphenyl-d14                | 244   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 67 Butylbenzylphthalate           | 149   |     | 22.459                 | 22.460 | (0.957) | 314007 | 4.83397  | 4.834                |                  |
| 68 Benzo(a)anthracene             | 228   |     | 23.427                 | 23.419 | (0.999) | 714166 | 4.64722  | 4.647                |                  |
| * 69 Chrysene-d12                 | 240   |     | 23.458                 | 23.450 | (1.000) | 435381 | 4.00000  |                      |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     | 23.373                 | 23.373 | (0.996) | 483256 | 9.81738  | 9.817                |                  |
| 71 Chrysene                       | 228   |     | 23.497                 | 23.489 | (1.002) | 677151 | 4.51017  | 4.510                |                  |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 23.481                 | 23.474 | (0.959) | 453669 | 4.67998  | 4.680                |                  |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 24.487                 | 24.480 | (1.000) | 660827 | 4.00000  |                      |                  |
| 73 Di-n-octylphthalate            | 149   |     | 24.495                 | 24.488 | (1.000) | 855562 | 4.94734  | 4.947                |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 25.370                 | 25.362 | (0.969) | 737887 | 4.60200  | 4.602 (H)            |                  |
| 75 Benzo(k)fluoranthene           | 252   |     | 25.416                 | 25.409 | (0.970) | 797521 | 4.89839  | 4.898                |                  |
| 76 Benzo(a)pyrene                 | 252   |     | 26.067                 | 26.052 | (0.995) | 698616 | 4.87338  | 4.873                |                  |
| * 77 Perylene-d12                 | 264   |     | 26.191                 | 26.183 | (1.000) | 494648 | 4.00000  |                      |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 29.005                 | 28.990 | (1.107) | 834672 | 4.57655  | 4.577                |                  |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 29.021                 | 29.005 | (1.108) | 688433 | 4.54663  | 4.547                |                  |
| 80 Benzo(g,h,i)perylene           | 276   |     | 29.852                 | 29.821 | (1.140) | 724463 | 4.59000  | 4.590                |                  |
| 90 N-Nitrosodimethylamine         | 74    |     | 4.928                  | 4.936  | (0.530) | 155126 | 5.19378  | 5.194                |                  |
| 91 Aniline                        | 93    |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 93 Benzidine                      | 184   |     | 21.073                 | 21.066 | (0.898) | 314737 | 4.37985  | 4.380                |                  |
| 103 Pyridine                      | 79    |     | 4.959                  | 4.997  | (0.533) | 244801 | 5.33678  | 5.337                |                  |
| 105 1-methylnaphthalene           | 142   |     | 13.425                 | 13.425 | (1.140) | 487498 | 4.87520  | 4.875                |                  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     | 16.797                 | 16.789 | (1.092) | 533524 | 4.93744  | 4.937                |                  |

| Compounds                     | QUANT SIG |  |        |        |         |          |                      | CONCENTRATIONS   |  |
|-------------------------------|-----------|--|--------|--------|---------|----------|----------------------|------------------|--|
|                               | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |  |
| =====                         | =====     |  | =====  | =====  | =====   | =====    | =====                | =====            |  |
| 187 Total Benzofluoranthenes  | 252       |  | 25.370 | 25.409 | (0.969) | 1468165  | 9.48349              | 9.483            |  |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 16.102 | 16.103 | (1.047) | 124685   | 3.97959              | 3.980            |  |

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023  
 Lab File ID: NT10031511.D Calibration Time: 21:50  
 Lab Smp Id: SLC0228-SCV1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 171542   | 85771      | 343084  | 154809 | -9.75  |
| 27 Naphthalene-d8     | 624466   | 312233     | 1248932 | 570882 | -8.58  |
| 42 Acenaphthene-d10   | 337226   | 168613     | 674452  | 303490 | -10.00 |
| 59 Phenanthrene-d10   | 572849   | 286425     | 1145698 | 533431 | -6.88  |
| 69 Chrysene-d12       | 347068   | 173534     | 694136  | 435381 | 25.45  |
| 134 Di-n-octylphthala | 500317   | 250159     | 1000634 | 660827 | 32.08  |
| 77 Perylene-d12       | 421549   | 210775     | 843098  | 494648 | 17.34  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.30     | 8.80     | 9.80  | 9.30   | -0.00 |
| 27 Naphthalene-d8     | 11.78    | 11.28    | 12.28 | 11.78  | 0.01  |
| 42 Acenaphthene-d10   | 15.38    | 14.88    | 15.88 | 15.38  | 0.00  |
| 59 Phenanthrene-d10   | 18.42    | 17.92    | 18.92 | 18.42  | 0.00  |
| 69 Chrysene-d12       | 23.45    | 22.95    | 23.95 | 23.46  | 0.04  |
| 134 Di-n-octylphthala | 24.48    | 23.98    | 24.98 | 24.49  | 0.03  |
| 77 Perylene-d12       | 26.18    | 25.68    | 26.68 | 26.19  | 0.03  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT10031511.D

Lab ID: SLC0228-SCV1  
nt10.i, 20230315.b\ABN.m, 16-MAR-2023 02:16

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

\*\* FIRST SURROGATE NOT FOUND. ICAL Check not performed \*\*

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND     |
|-------|---------|--------|--------------|
| 0.952 | 0.000   | 0.9524 | Benzoic acid |

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*



**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-LCV1

**Sequence:** SLB0374

**Standard ID:** K011105

| ANALYTE                      | EXPECTED<br>(ug/mL) | FOUND<br>(ug/mL) | % DRIFT | QC LIMIT |
|------------------------------|---------------------|------------------|---------|----------|
| Phenol                       | 0.20000             | 0.2              | 8.2     | 50.00    |
| bis(2-chloroethyl) ether     | 0.20000             | 0.2              | -0.3    | 50.00    |
| 2-Chlorophenol               | 0.20000             | 0.2              | -11.3   | 50.00    |
| 1,3-Dichlorobenzene          | 0.20000             | 0.2              | 5.5     | 50.00    |
| 1,4-Dichlorobenzene          | 0.20000             | 0.2              | 1.5     | 50.00    |
| 1,2-Dichlorobenzene          | 0.20000             | 0.2              | 9.3     | 50.00    |
| Benzyl Alcohol               | 0.20000             | 0.1              | -50.1 * | 50.00    |
| 2,2'-Oxybis(1-chloropropane) | 0.20000             | 0.2              | 6.9     | 50.00    |
| 2-Methylphenol               | 0.20000             | 0.2              | -12.8   | 50.00    |
| Hexachloroethane             | 0.20000             | 0.1              | -25.3   | 50.00    |
| N-Nitroso-di-n-Propylamine   | 0.20000             | 0.2              | 0.7     | 50.00    |
| 4-Methylphenol               | 0.20000             | 0.1              | -34.1   | 50.00    |
| Nitrobenzene                 | 0.20000             | 0.2              | -8.0    | 50.00    |
| Isophorone                   | 0.20000             | 0.2              | -9.5    | 50.00    |
| 2-Nitrophenol                | 0.20000             | 0.1              | -31.0   | 50.00    |
| 2,4-Dimethylphenol           | 0.40000             | 0.4              | 3.3     | 50.00    |
| Bis(2-Chloroethoxy)methane   | 0.20000             | 0.2              | -2.1    | 50.00    |
| 2,4-Dichlorophenol           | 0.40000             | 0.3              | -27.6   | 50.00    |
| 1,2,4-Trichlorobenzene       | 0.20000             | 0.2              | 1.8     | 50.00    |
| Naphthalene                  | 0.20000             | 0.2              | 6.8     | 50.00    |
| Benzoic acid                 | 0.80000             | 0.0              | *       | 50.00    |
| 4-Chloroaniline              | 0.40000             | 0.3              | -21.4   | 50.00    |
| Hexachlorobutadiene          | 0.20000             | 0.2              | -6.3    | 50.00    |
| 4-Chloro-3-Methylphenol      | 0.40000             | 0.3              | -23.9   | 50.00    |
| 2-Methylnaphthalene          | 0.20000             | 0.2              | -3.0    | 50.00    |
| Hexachlorocyclopentadiene    | 0.40000             | 0.0              | *       | 50.00    |
| 2,4,6-Trichlorophenol        | 0.40000             | 0.3              | -21.8   | 50.00    |
| 2,4,5-Trichlorophenol        | 0.40000             | 0.3              | -30.9   | 50.00    |
| 2-Chloronaphthalene          | 0.20000             | 0.2              | 3.9     | 50.00    |



**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-LCV1

**Sequence:** SLB0374

**Standard ID:** K011105

|                            |         |      |         |       |
|----------------------------|---------|------|---------|-------|
| 2-Nitroaniline             | 0.40000 | 0.3  | -16.8   | 50.00 |
| Acenaphthylene             | 0.20000 | 0.2  | 10.5    | 50.00 |
| Dimethylphthalate          | 0.20000 | 0.2  | 6.4     | 50.00 |
| 2,6-Dinitrotoluene         | 0.40000 | 0.4  | -6.9    | 50.00 |
| Acenaphthene               | 0.20000 | 0.2  | 5.1     | 50.00 |
| 3-Nitroaniline             | 0.40000 | 0.2  | -44.8   | 50.00 |
| 2,4-Dinitrophenol          | 0.80000 | 0.0  | *       | 50.00 |
| Dibenzofuran               | 0.20000 | 0.2  | -0.8    | 50.00 |
| 4-Nitrophenol              | 0.40000 | 0.0  | *       | 50.00 |
| 2,4-Dinitrotoluene         | 0.40000 | 0.3  | -30.1   | 50.00 |
| Fluorene                   | 0.20000 | 0.2  | 5.0     | 50.00 |
| 4-Chlorophenylphenyl ether | 0.20000 | 0.2  | 0.6     | 50.00 |
| Diethyl phthalate          | 0.20000 | 0.2  | 7.4     | 50.00 |
| 4-Nitroaniline             | 0.40000 | 0.3  | -32.2   | 50.00 |
| 4,6-Dinitro-2-methylphenol | 0.80000 | 0.1  | -82.8 * | 50.00 |
| N-Nitrosodiphenylamine     | 0.20000 | 0.2  | 6.2     | 50.00 |
| 4-Bromophenyl phenyl ether | 0.20000 | 0.2  | 1.0     | 50.00 |
| Hexachlorobenzene          | 0.20000 | 0.2  | 6.9     | 50.00 |
| Pentachlorophenol          | 0.40000 | 0.07 | -82.0 * | 50.00 |
| Phenanthrene               | 0.20000 | 0.2  | 3.0     | 50.00 |
| Anthracene                 | 0.20000 | 0.2  | 2.3     | 50.00 |
| Carbazole                  | 0.20000 | 0.2  | -7.2    | 50.00 |
| Di-n-Butylphthalate        | 0.20000 | 0.2  | -10.5   | 50.00 |
| Fluoranthene               | 0.20000 | 0.2  | -1.4    | 50.00 |
| Pyrene                     | 0.20000 | 0.2  | -2.8    | 50.00 |
| Butylbenzylphthalate       | 0.20000 | 0.2  | 2.2     | 50.00 |
| Benzo(a)anthracene         | 0.20000 | 0.2  | 10.7    | 50.00 |
| 3,3'-Dichlorobenzidine     | 0.60000 | 0.7  | 22.2    | 50.00 |
| Chrysene                   | 0.20000 | 0.2  | 7.7     | 50.00 |
| bis(2-Ethylhexyl)phthalate | 0.20000 | 0.2  | -9.9    | 50.00 |
| Di-n-Octylphthalate        | 0.20000 | 0.2  | 1.2     | 50.00 |



**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-LCV1

**Sequence:** SLB0374

**Standard ID:** K011105

|                           |         |       |         |       |
|---------------------------|---------|-------|---------|-------|
| Benzofluoranthenes, Total | 0.40000 | 0.4   | 4.8     | 50.00 |
| Benzo(a)pyrene            | 0.20000 | 0.2   | 10.3    | 50.00 |
| Indeno(1,2,3-cd)pyrene    | 0.20000 | 0.1   | -34.5   | 50.00 |
| Dibenzo(a,h)anthracene    | 0.20000 | 0.1   | -28.5   | 50.00 |
| Benzo(g,h,i)perylene      | 0.20000 | 0.1   | -50.2 * | 50.00 |
| 1-Methylnaphthalene       | 0.20000 | 0.2   | -2.4    | 50.00 |
| 2-Fluorophenol            | 0.30000 | 0.218 | -27.5   | 50.00 |
| Phenol-d5                 | 0.30000 | 0.252 | -16.1   | 50.00 |
| 2-Chlorophenol-d4         | 0.30000 | 0.272 | -9.5    | 50.00 |
| 1,2-Dichlorobenzene-d4    | 0.20000 | 0.196 | -2.2    | 50.00 |
| Nitrobenzene-d5           | 0.20000 | 0.197 | -1.3    | 50.00 |
| 2-Fluorobiphenyl          | 0.20000 | 0.207 | 3.4     | 50.00 |
| 2,4,6-Tribromophenol      | 0.30000 | 0.207 | -30.9   | 50.00 |
| p-Terphenyl-d14           | 0.20000 | 0.199 | -0.7    | 50.00 |

\* Values outside of QC limits



Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022823.D

Date: 01-MAR-2023 14:51

Client ID:

Sample Info: SLB0374-LCW1

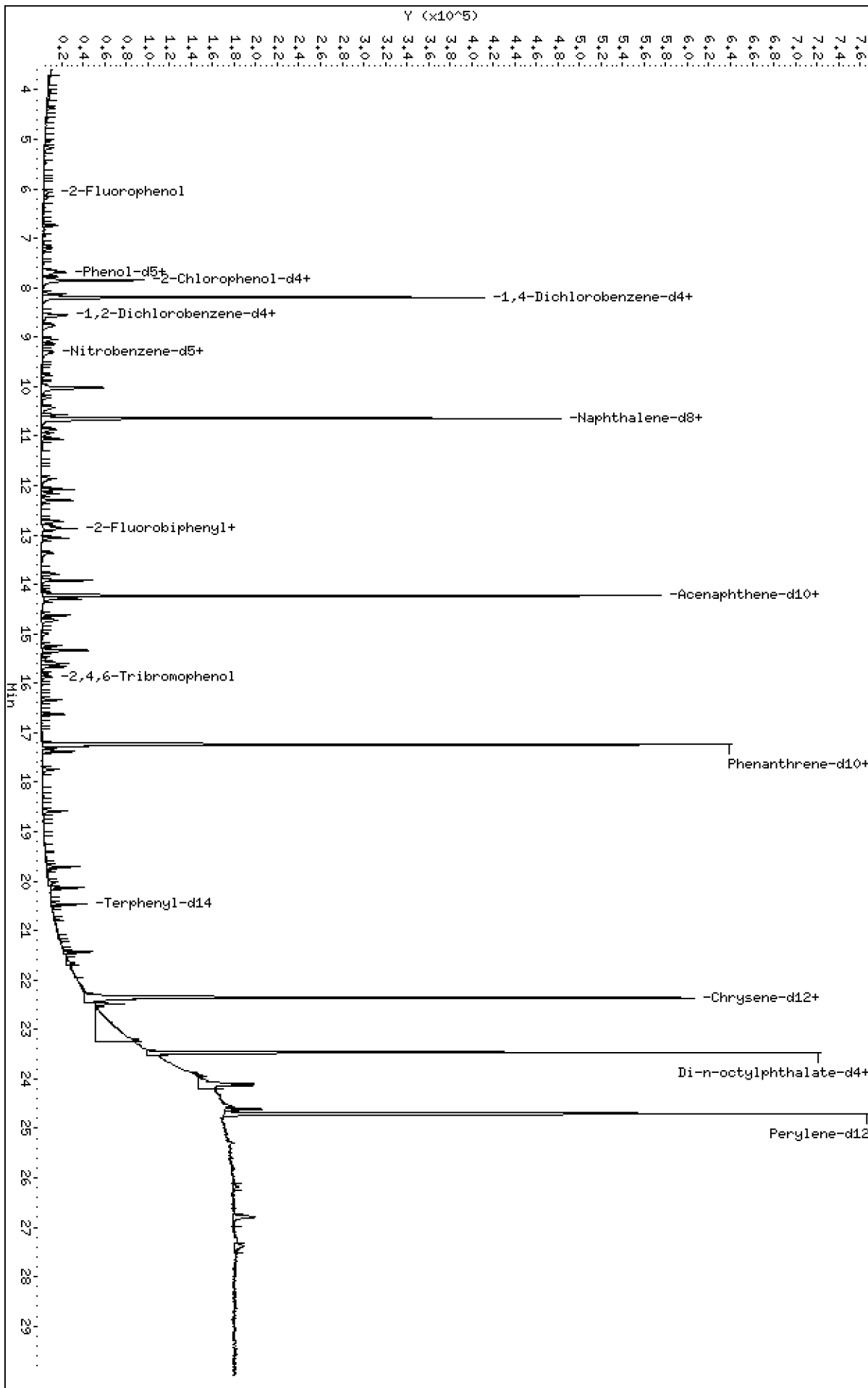
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022823.D



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

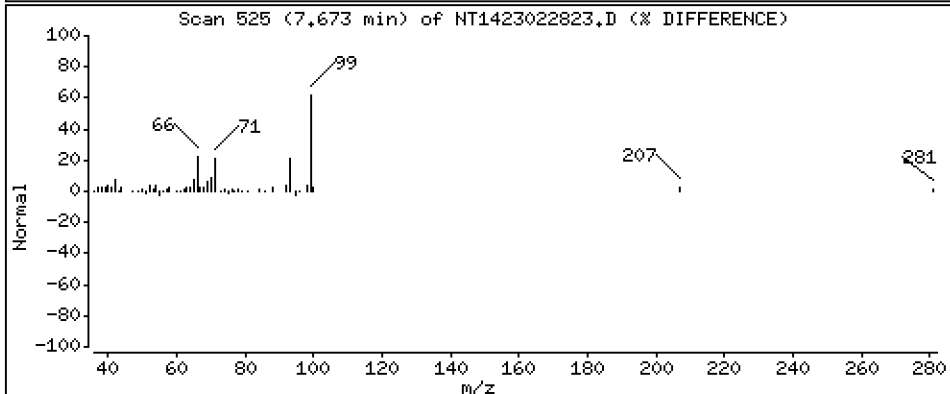
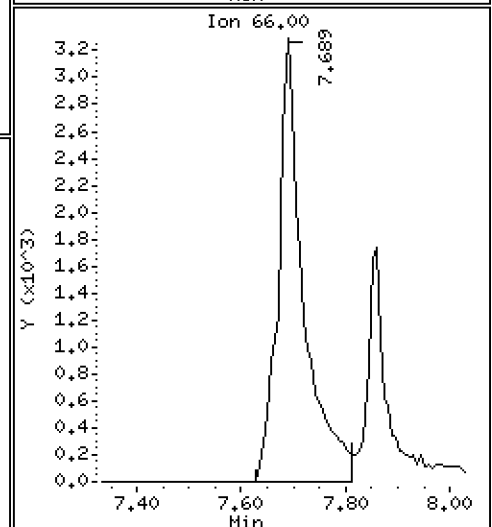
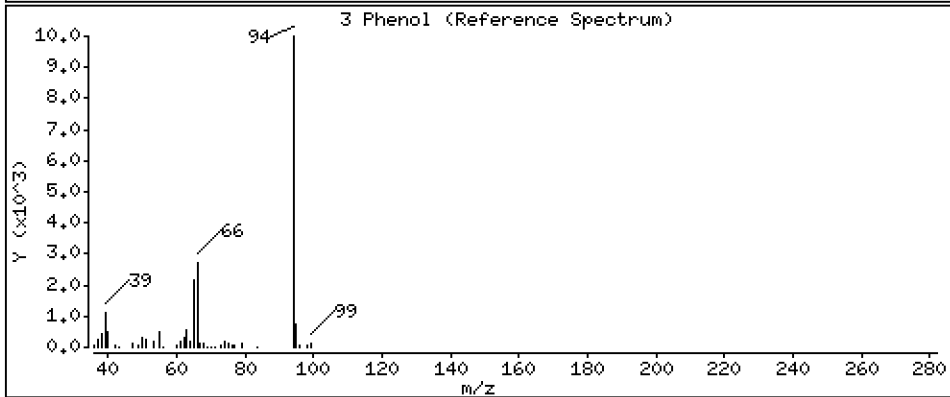
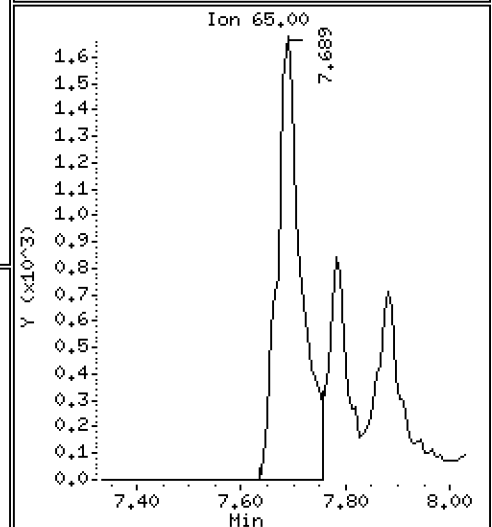
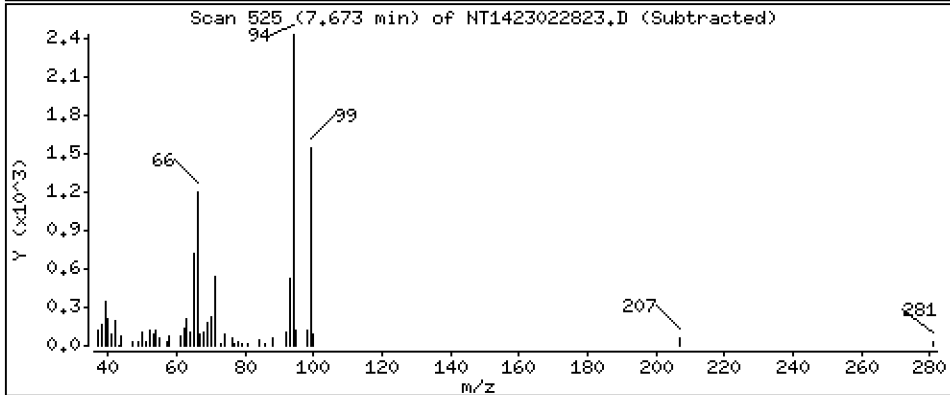
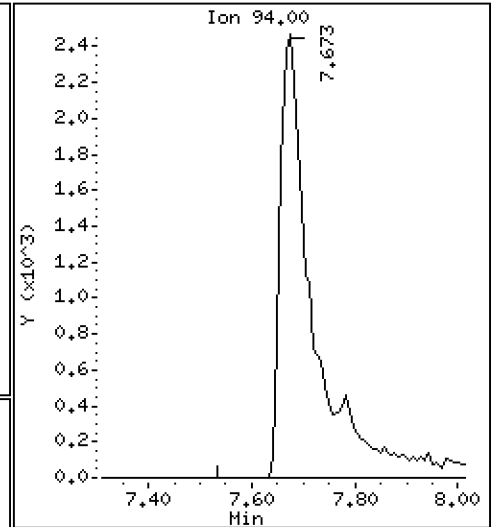
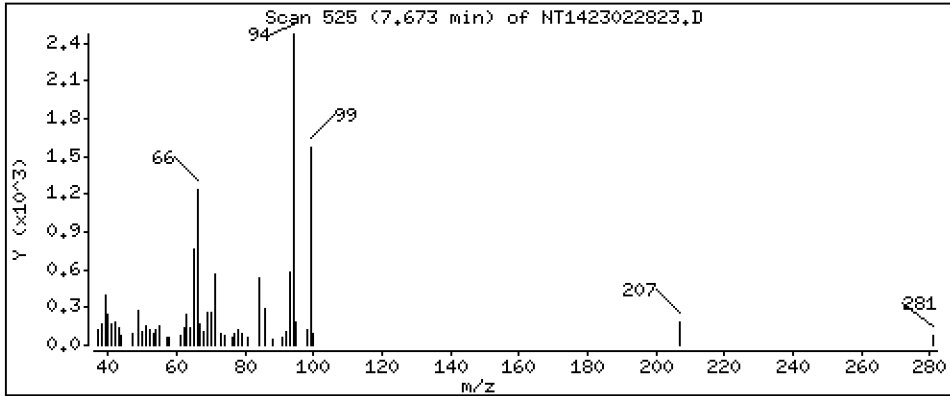
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,2165 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

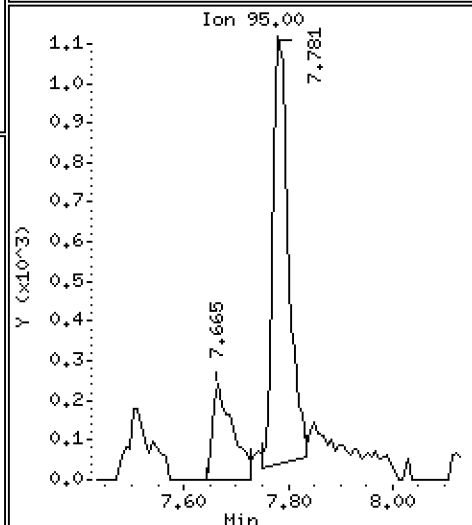
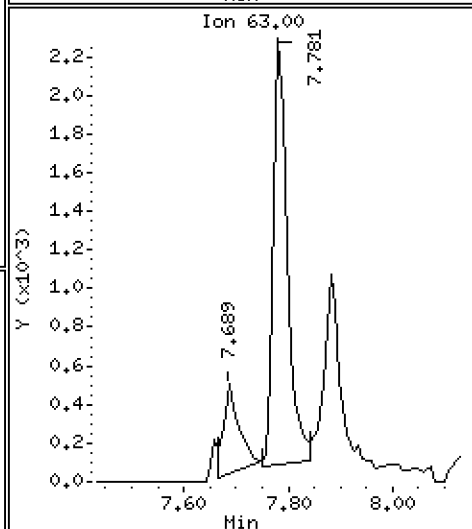
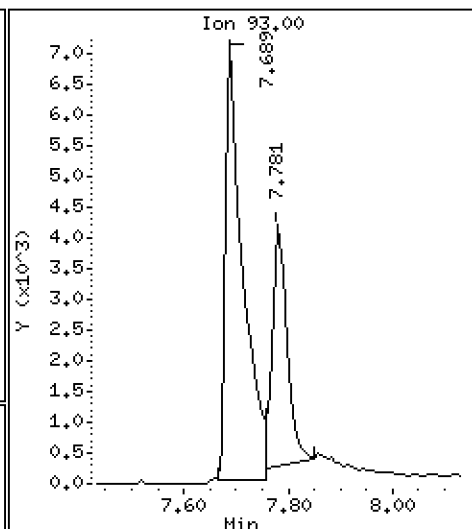
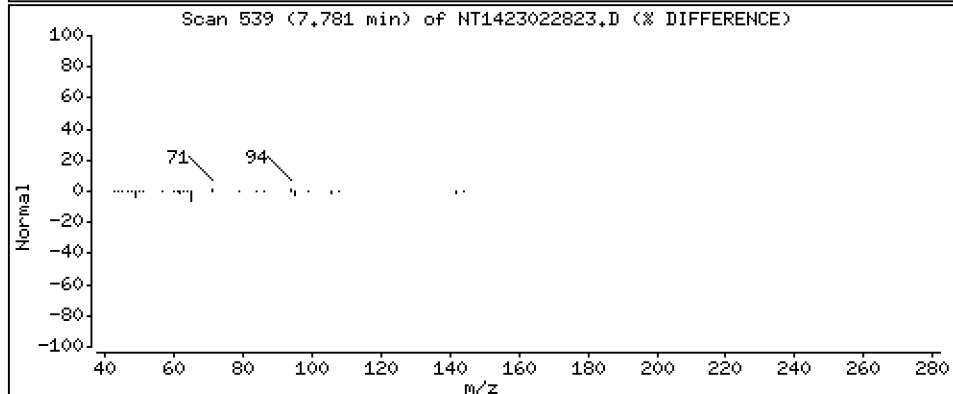
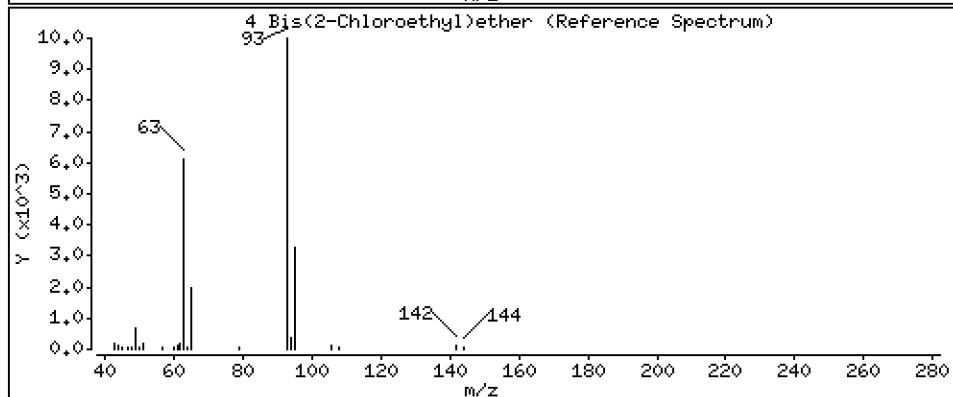
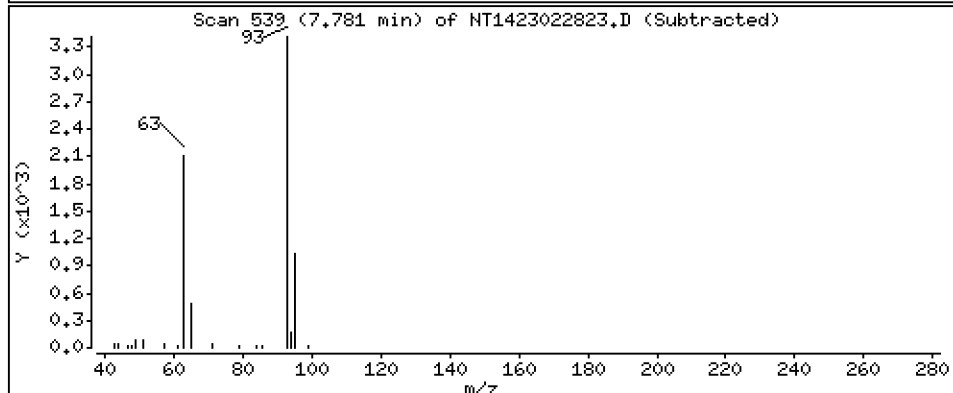
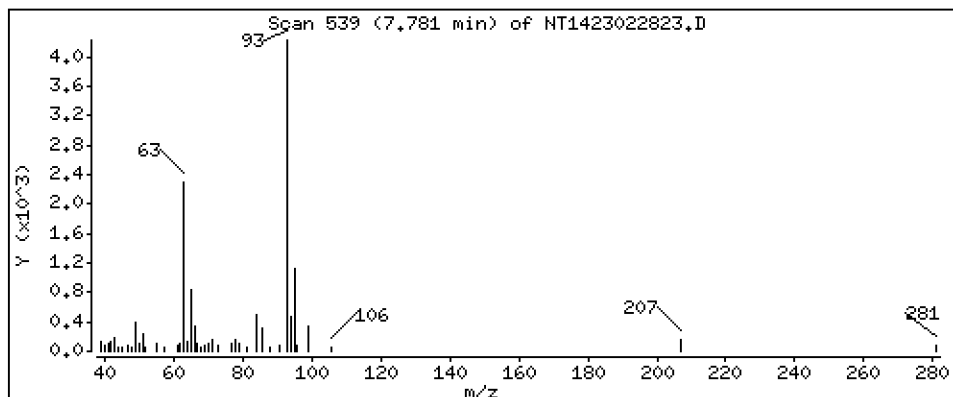
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 0.1995 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

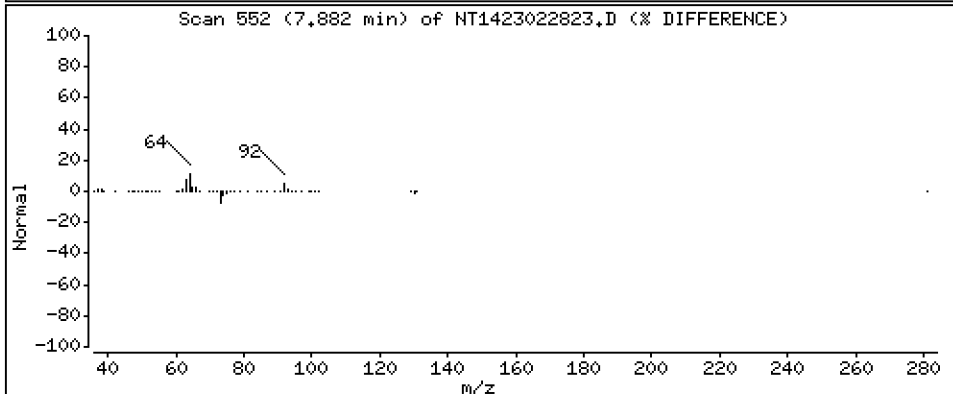
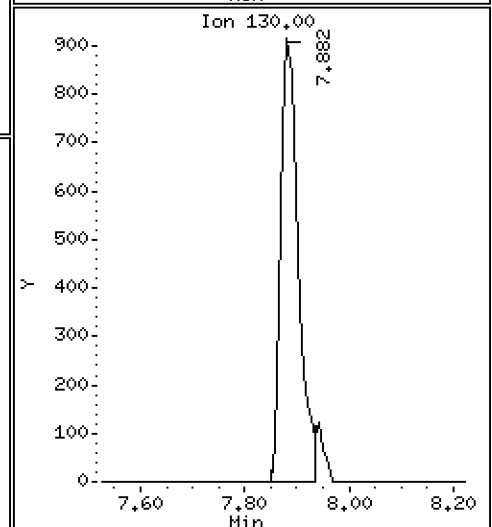
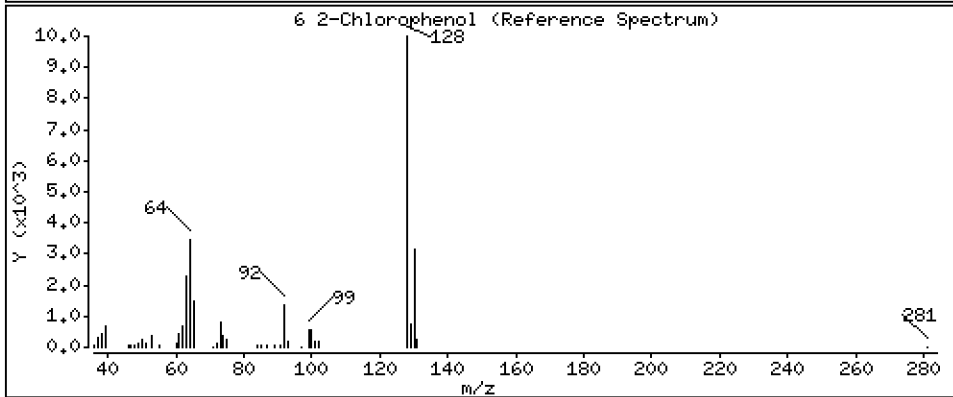
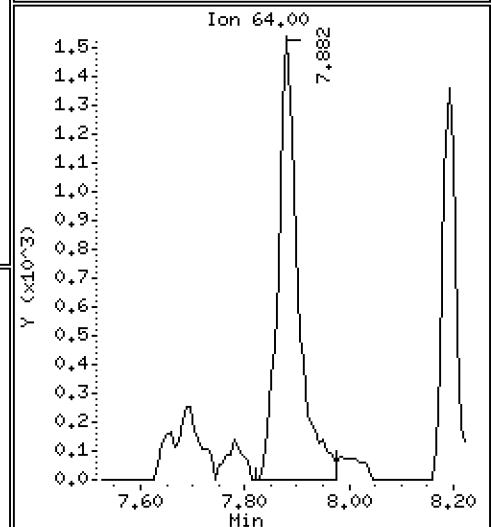
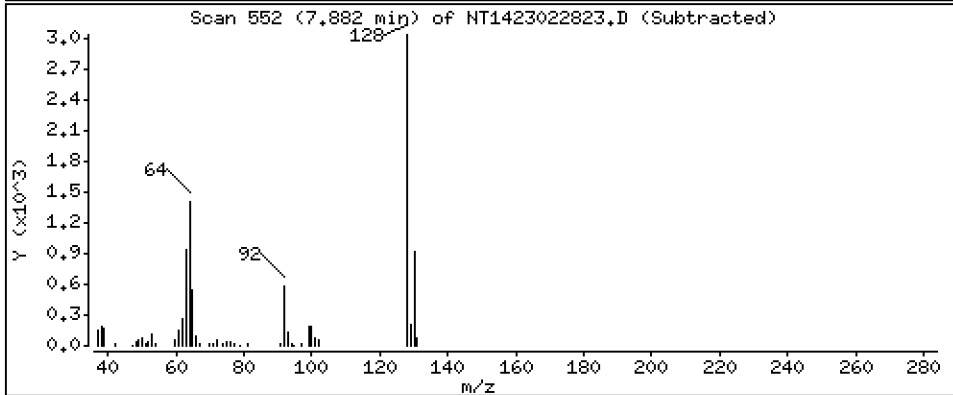
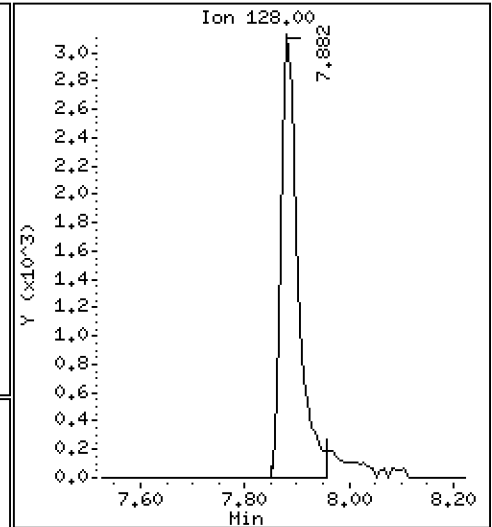
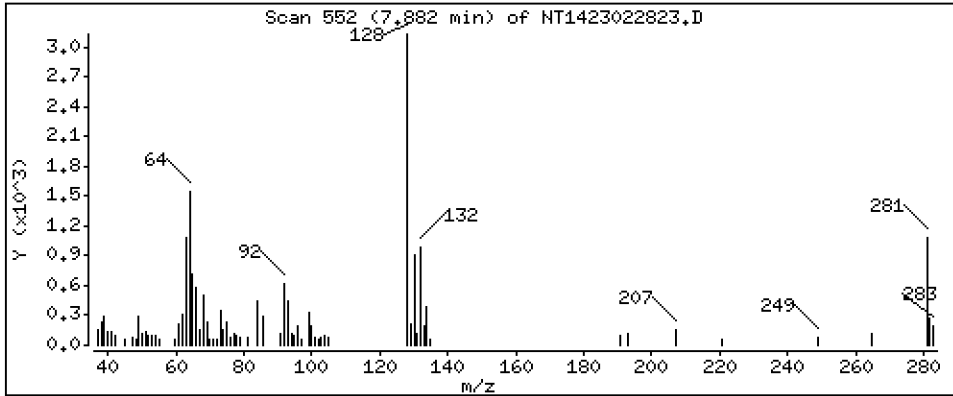
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

6 2-Chlorophenol

Concentration: 0.1773 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

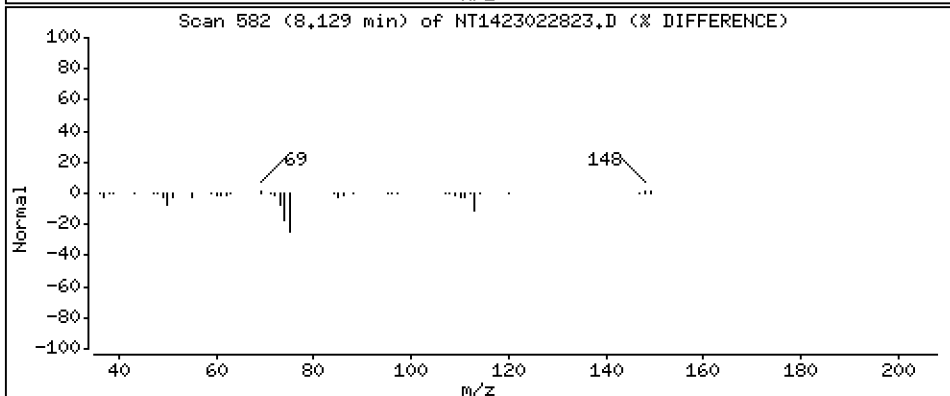
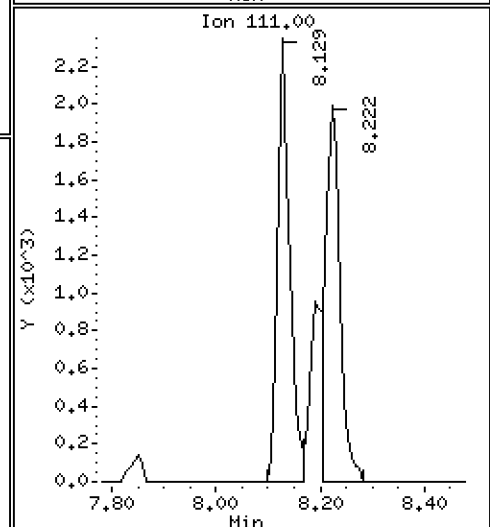
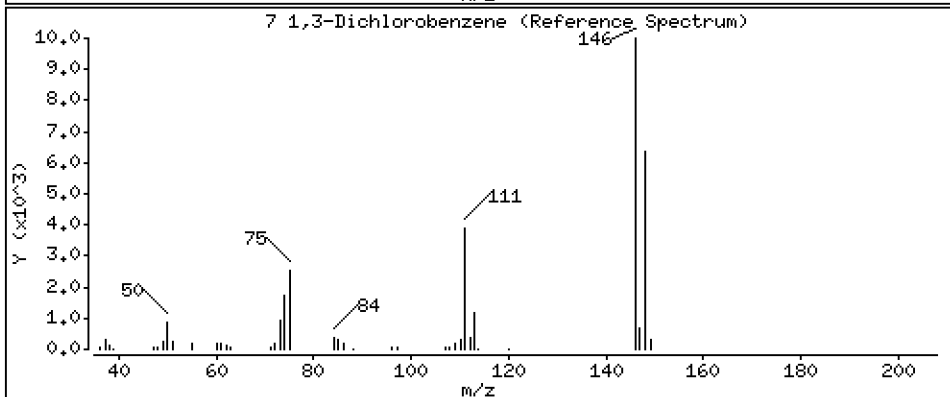
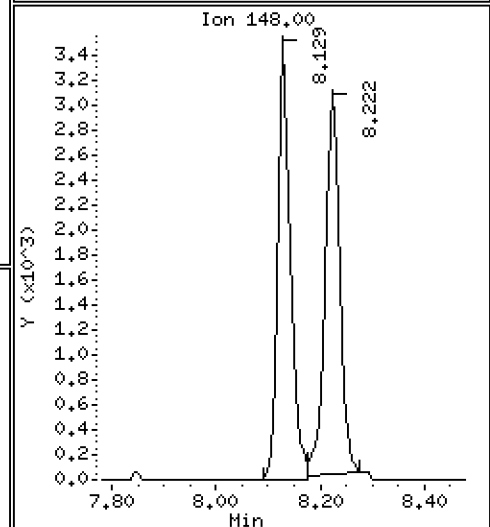
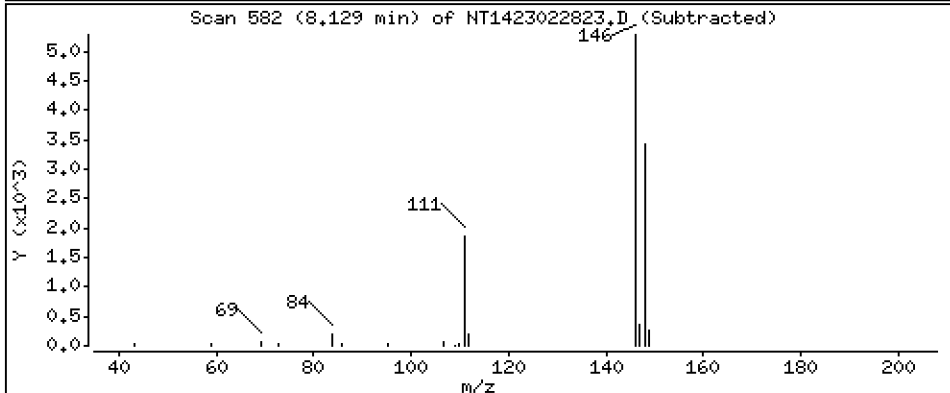
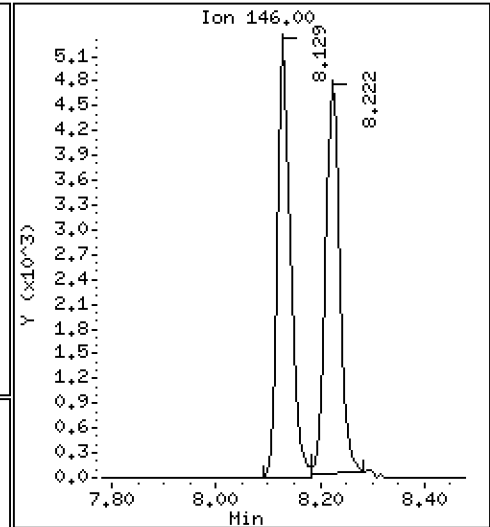
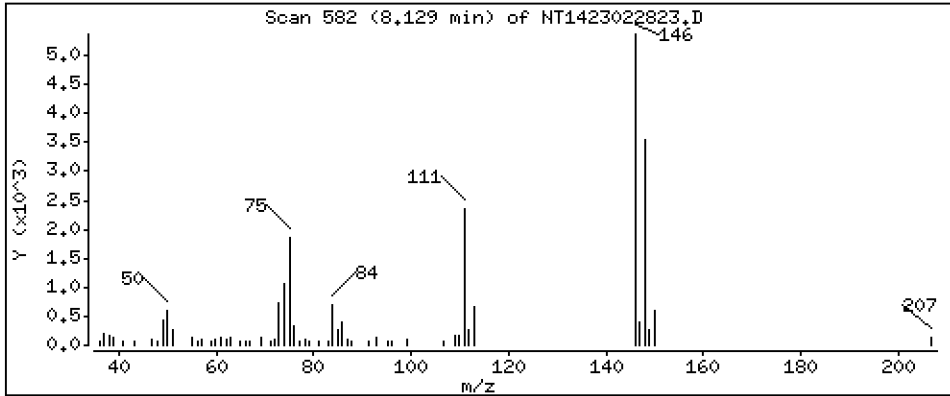
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,2110 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

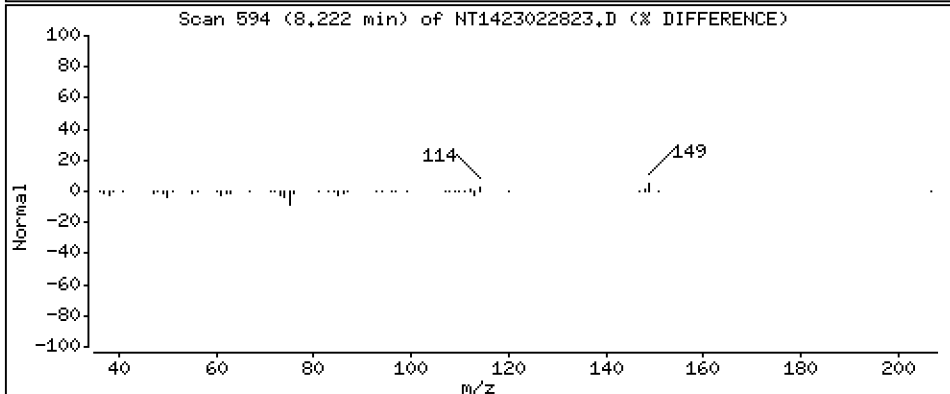
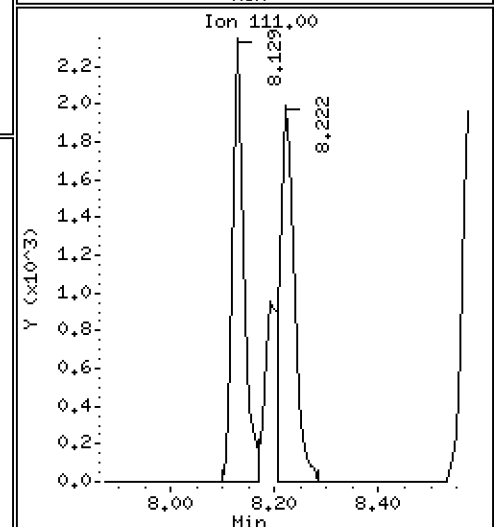
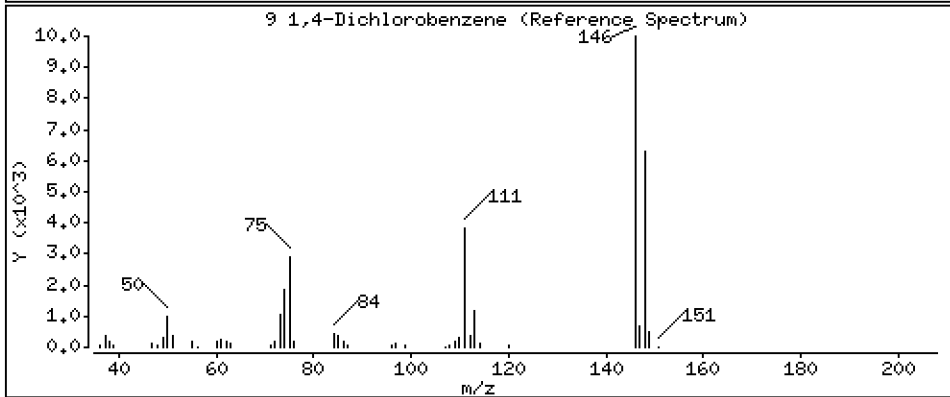
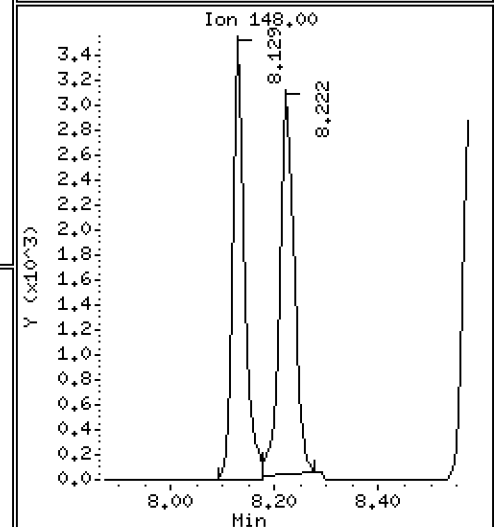
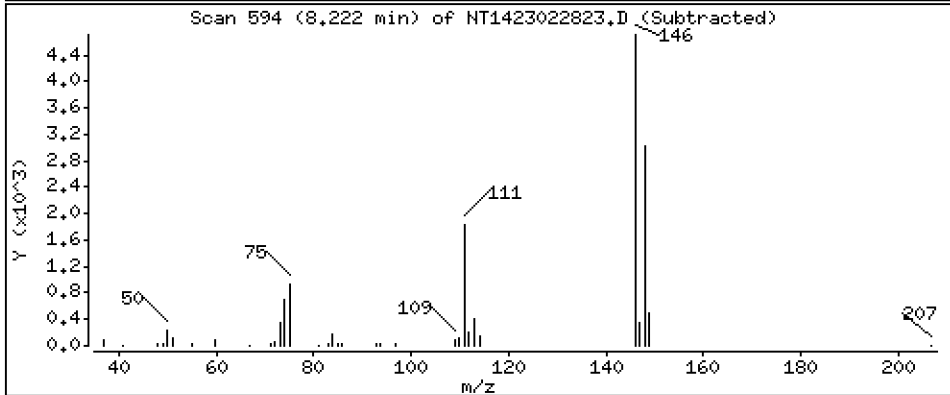
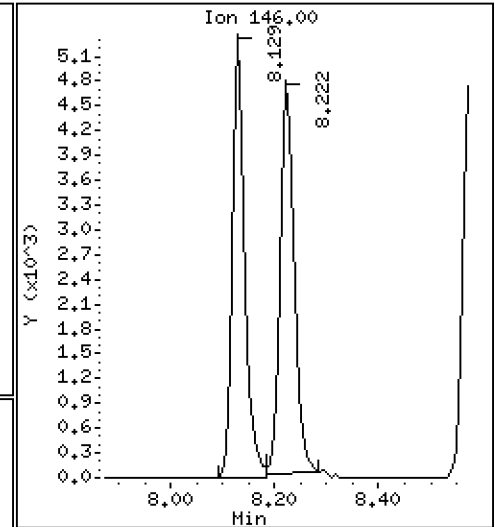
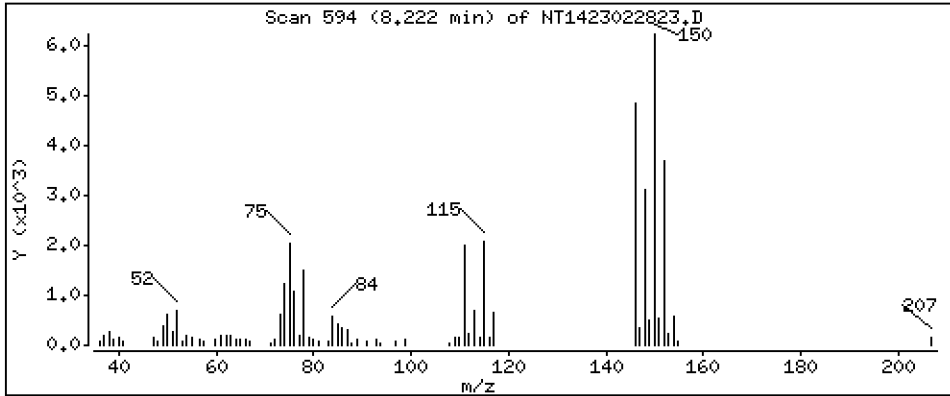
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,2029 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

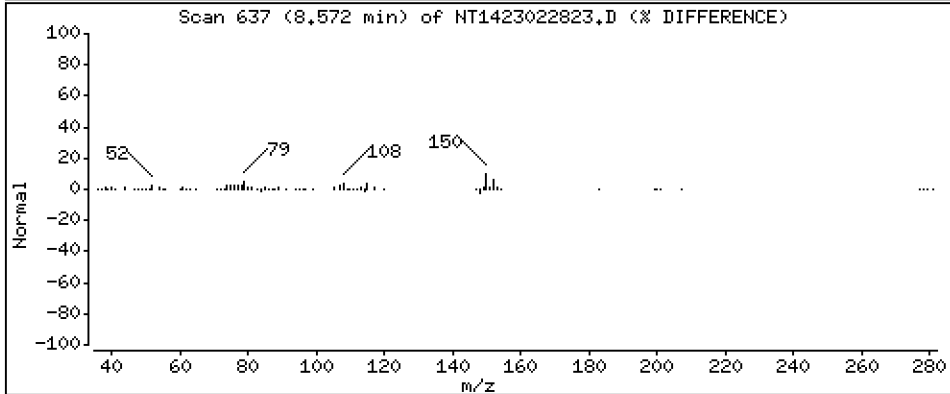
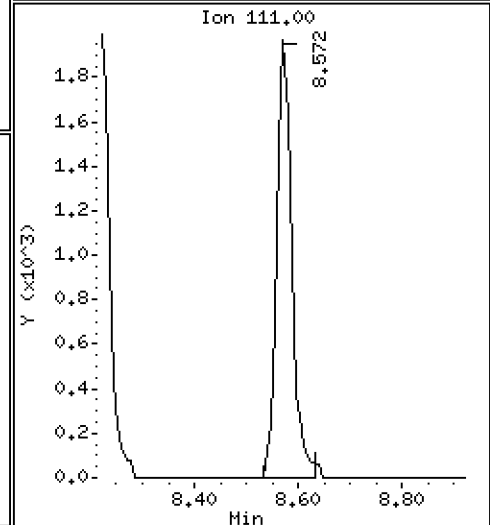
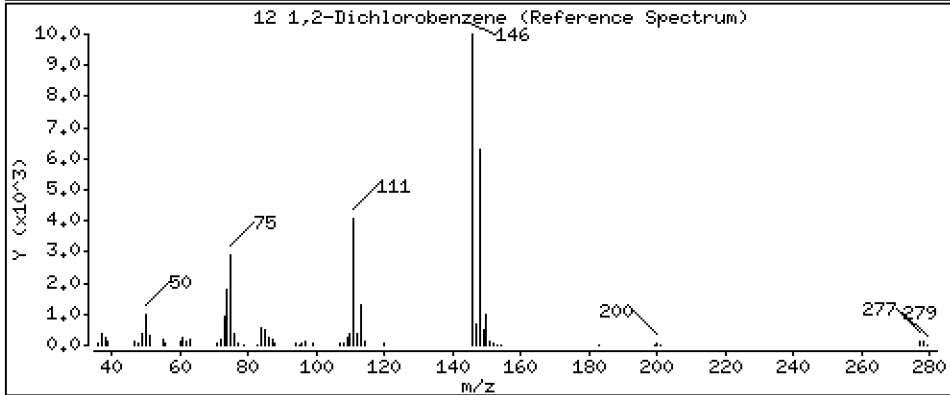
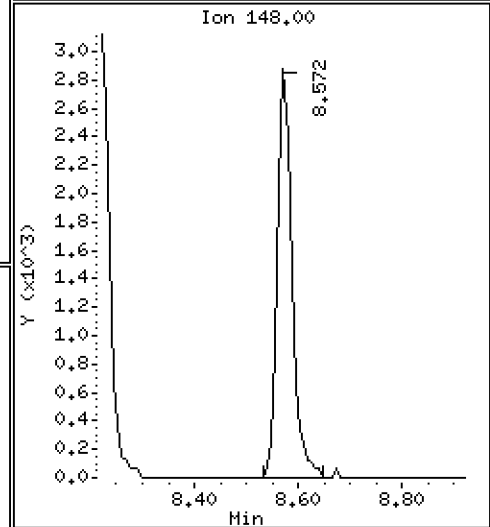
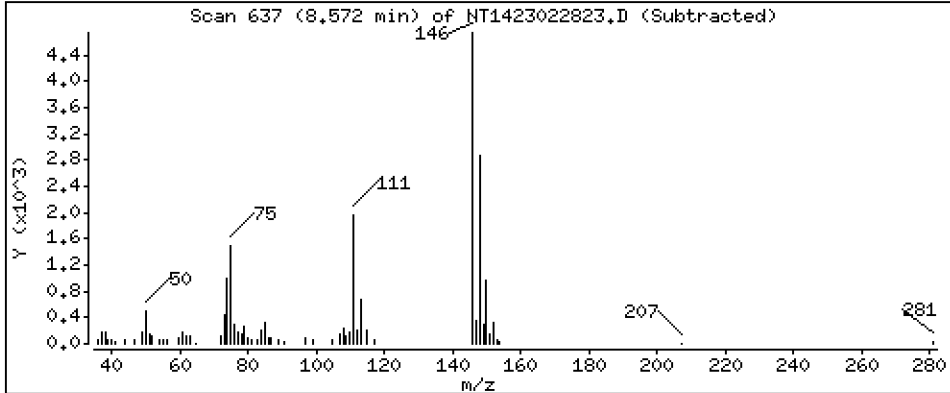
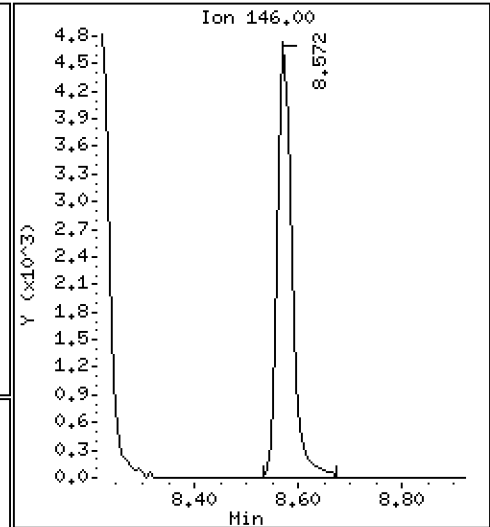
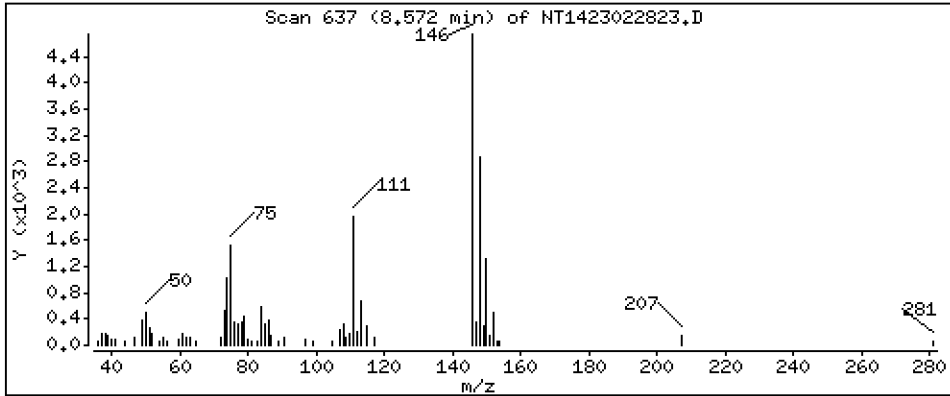
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2186 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

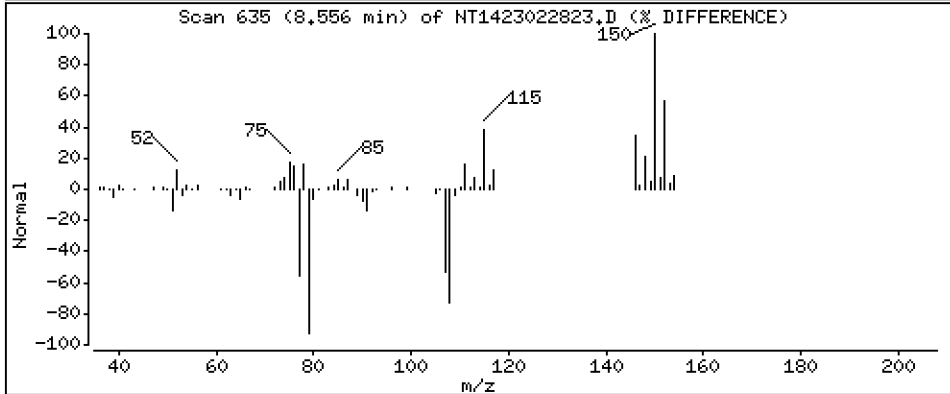
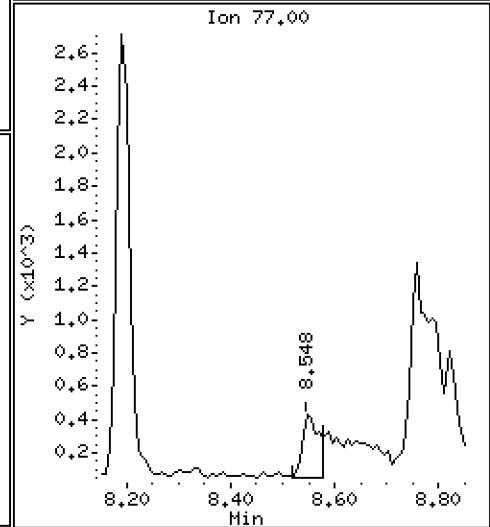
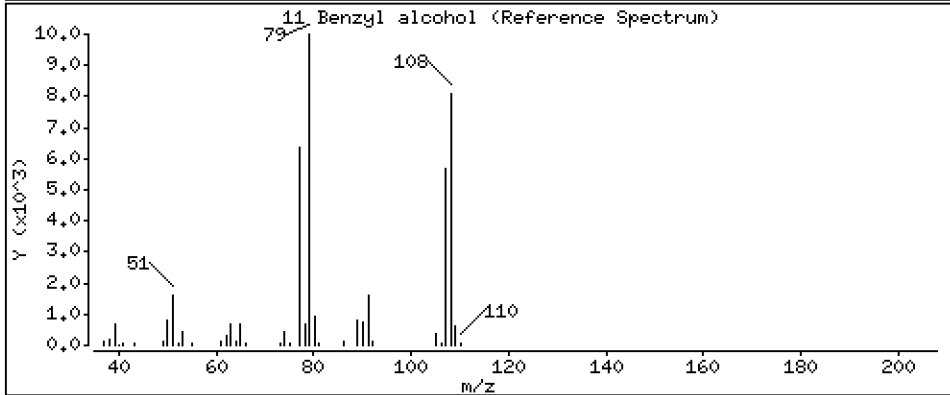
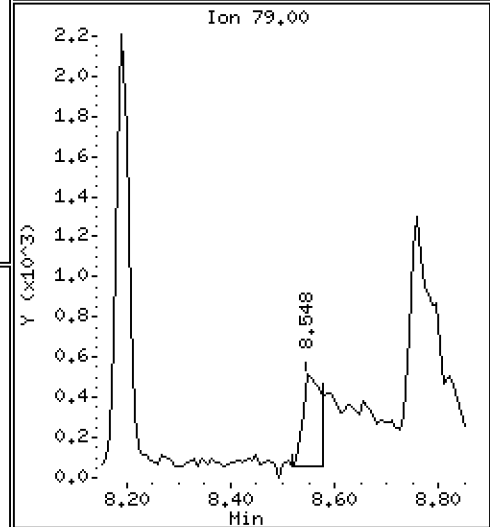
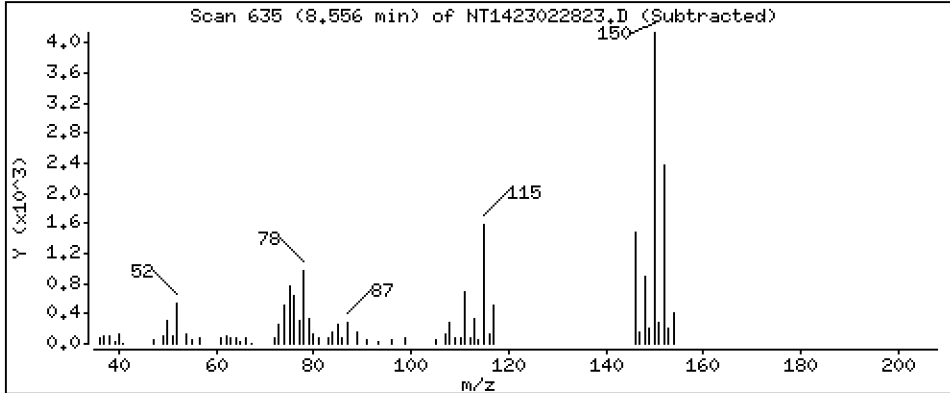
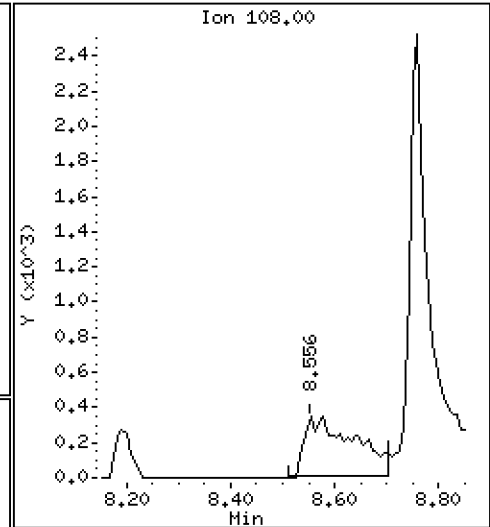
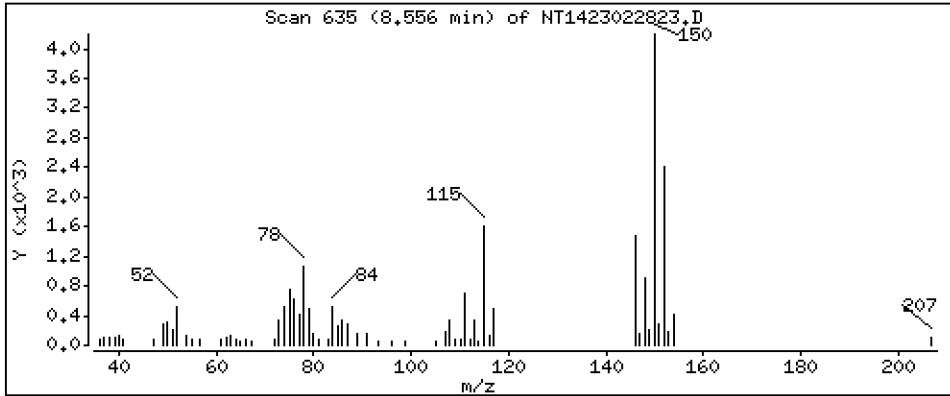
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.09976 ug/mL





Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

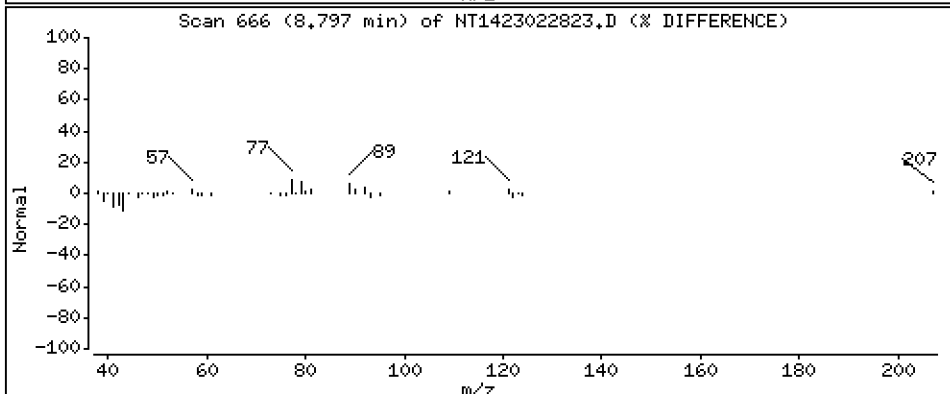
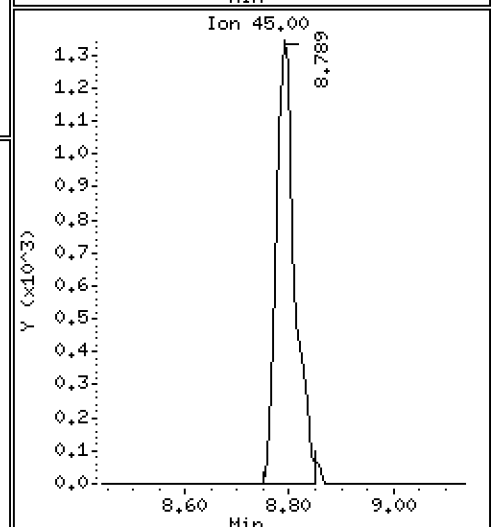
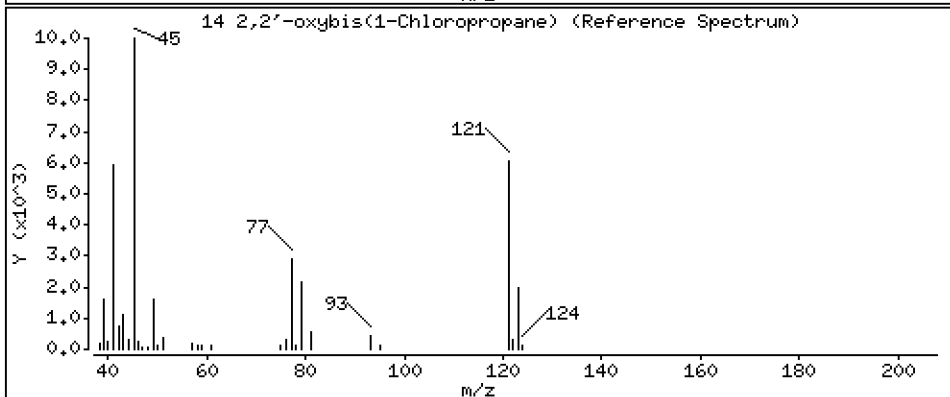
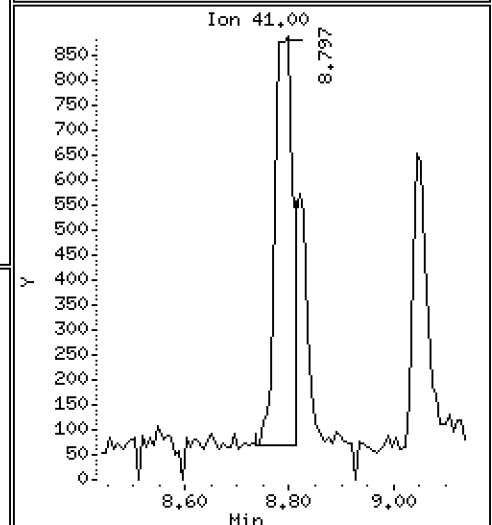
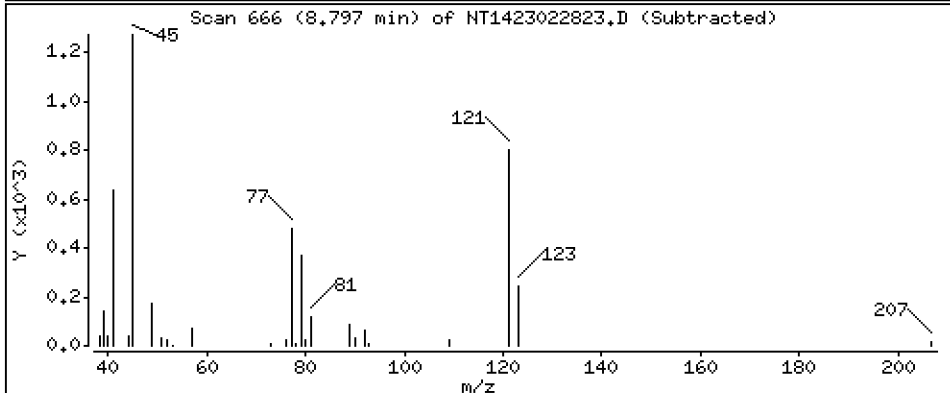
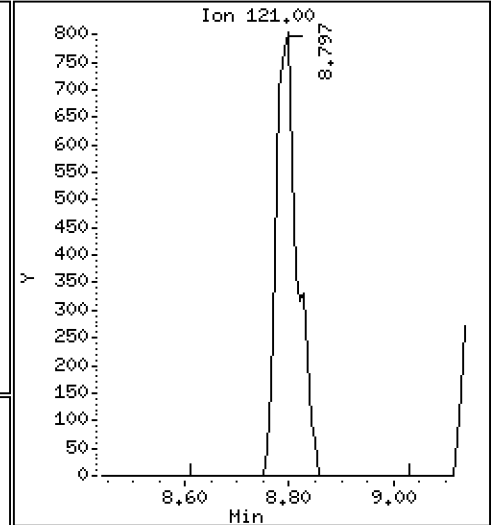
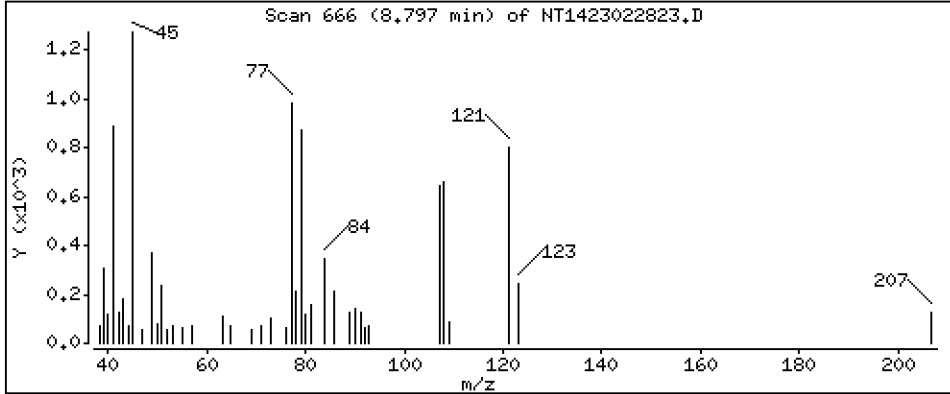
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 0,2138 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

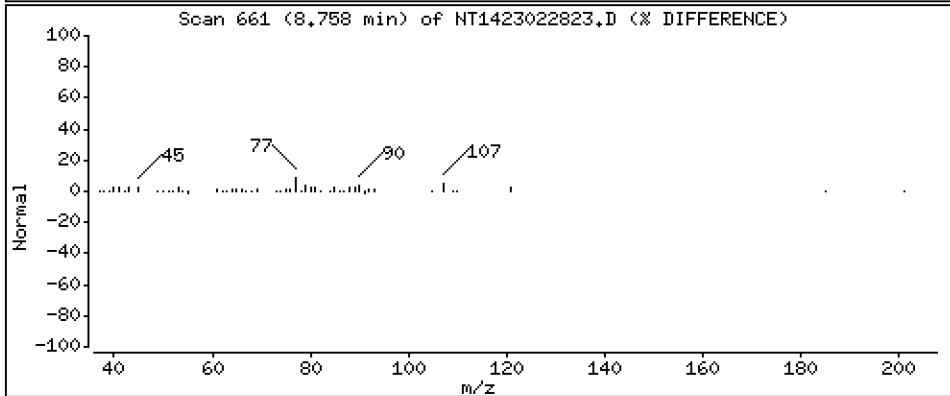
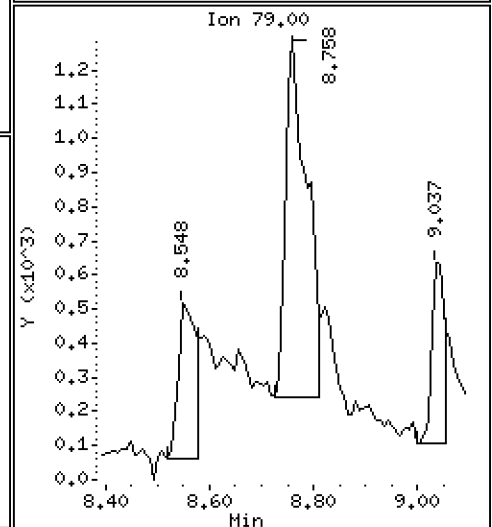
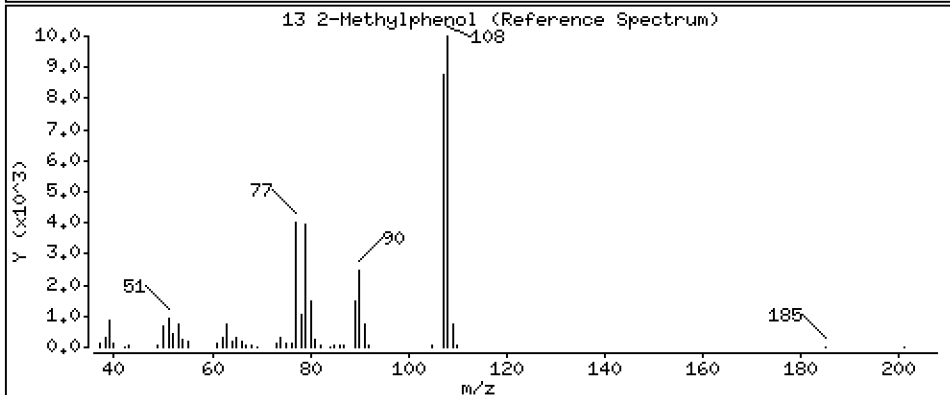
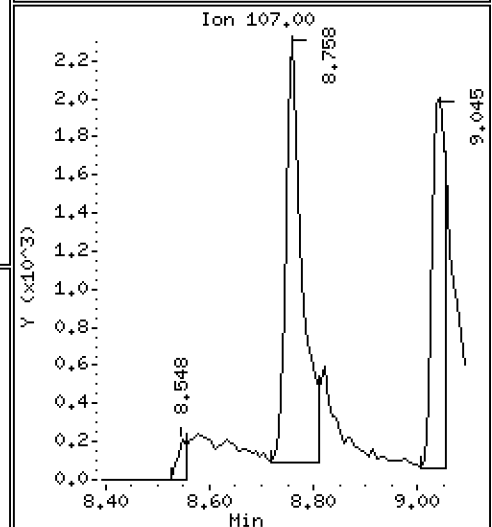
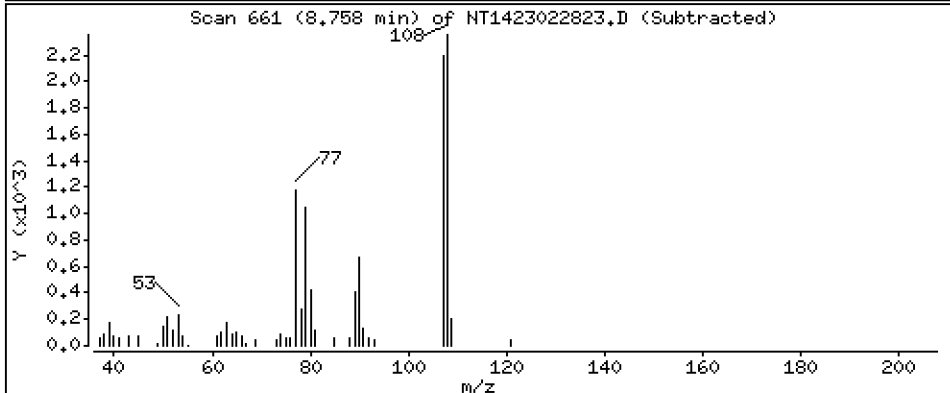
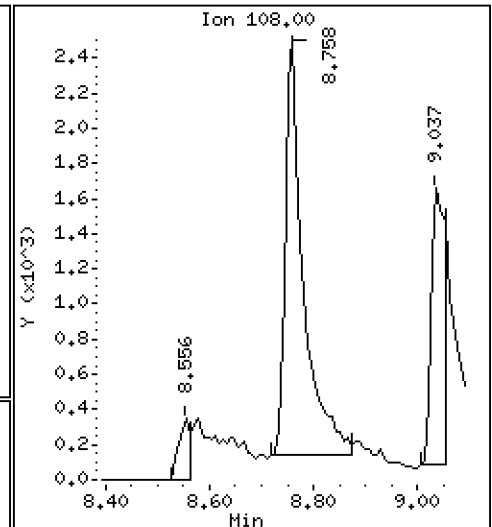
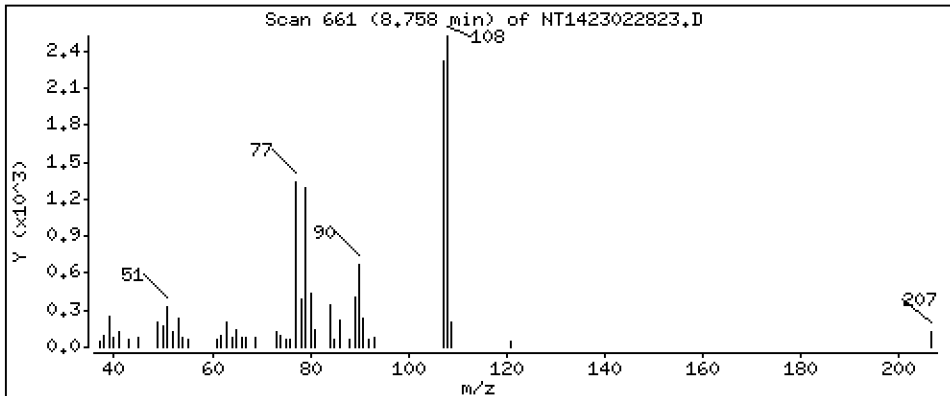
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.1744 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

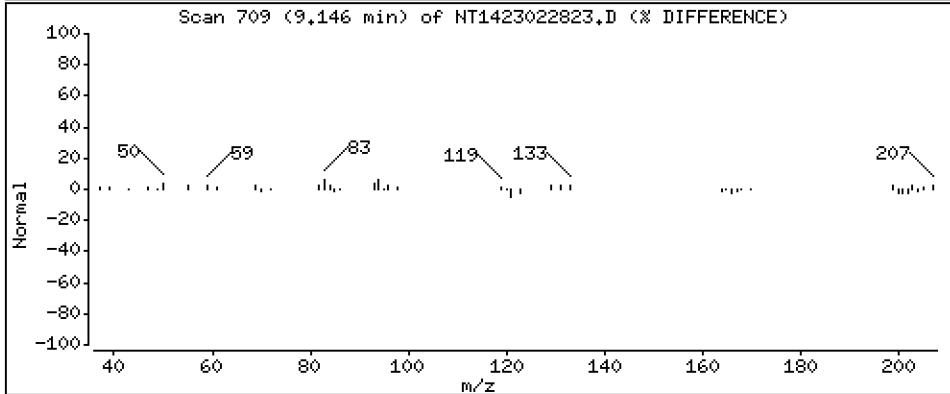
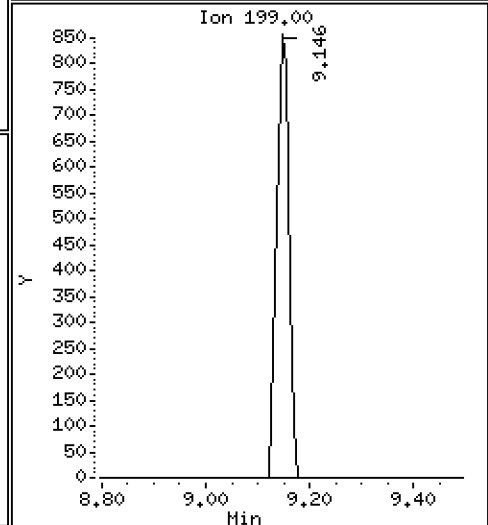
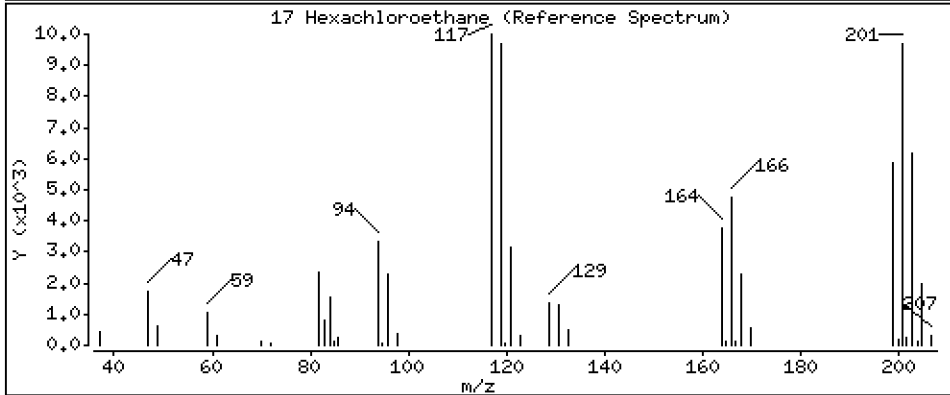
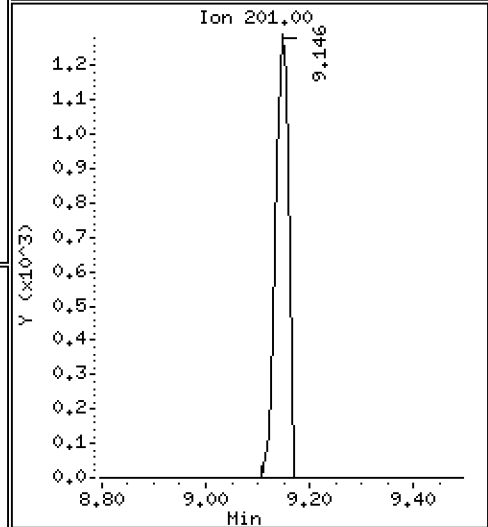
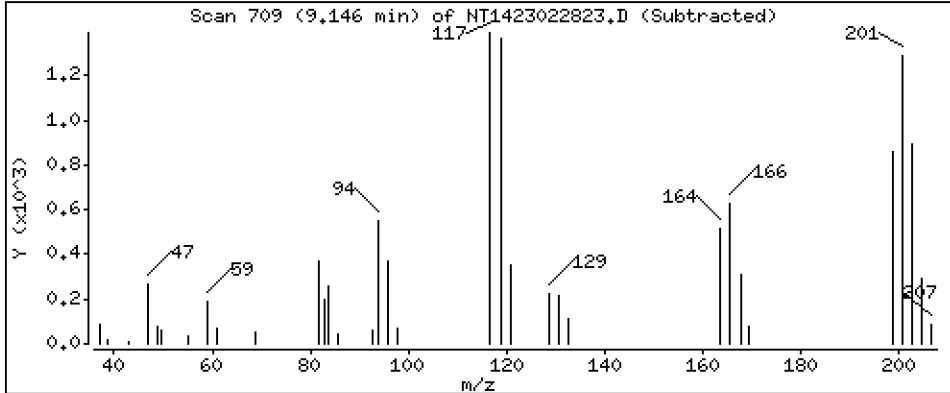
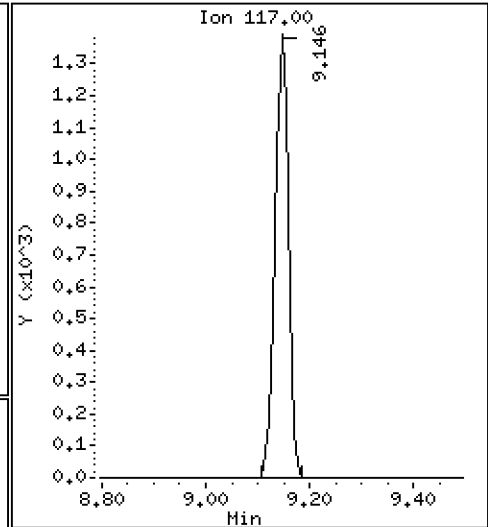
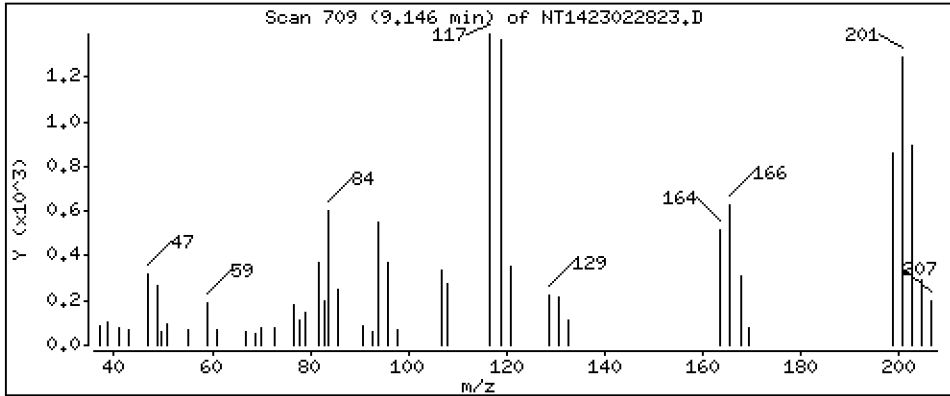
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,1493 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

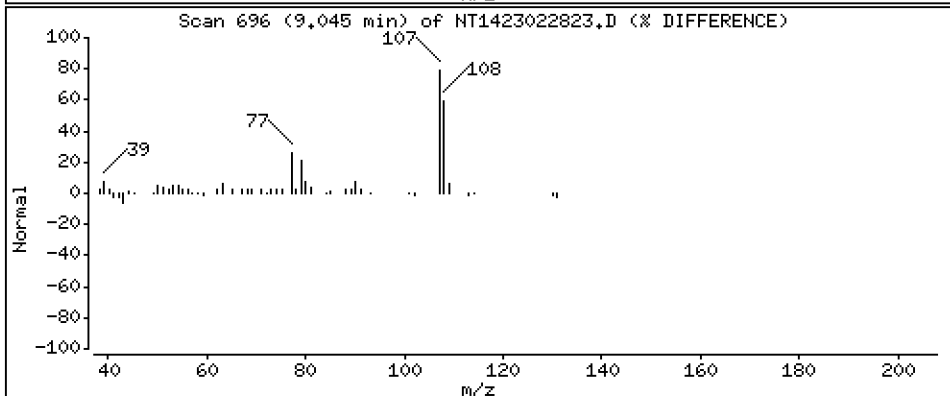
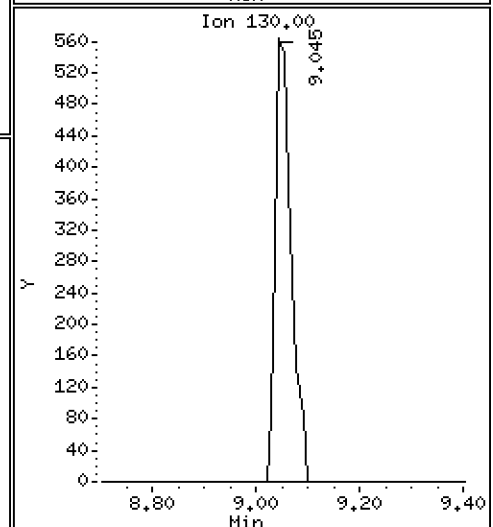
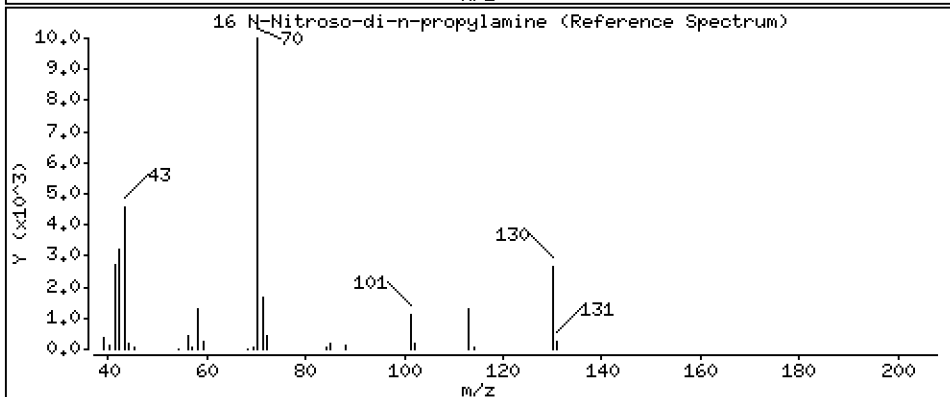
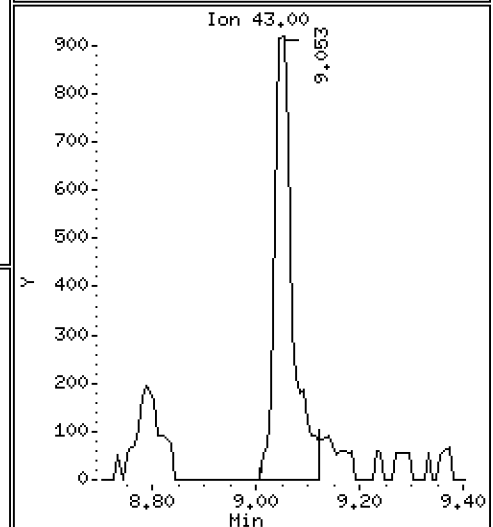
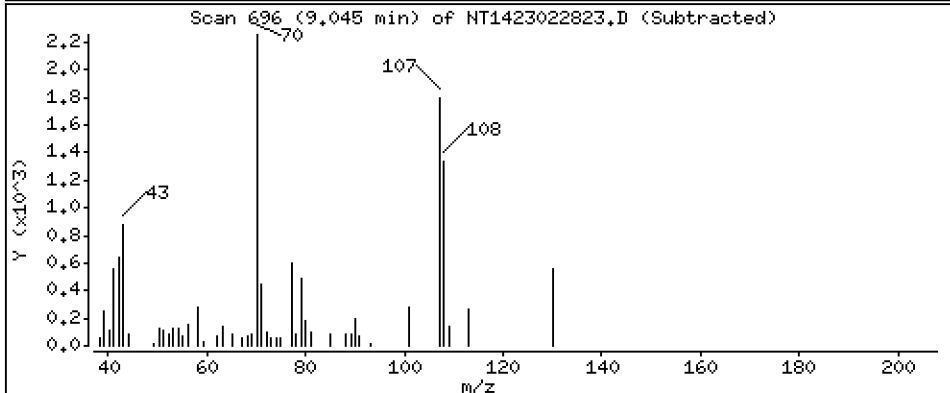
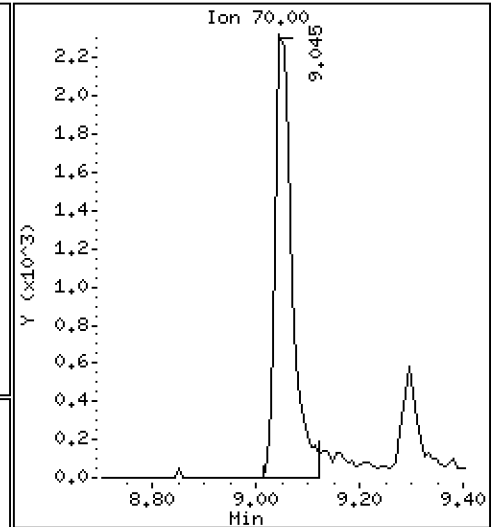
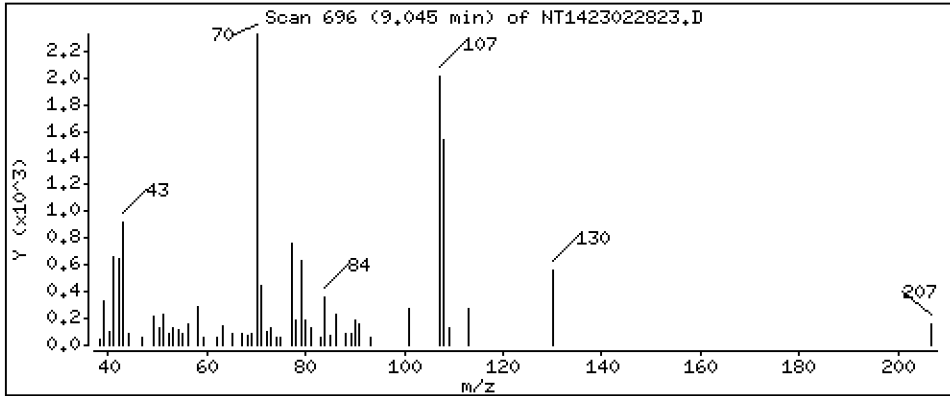
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,2015 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

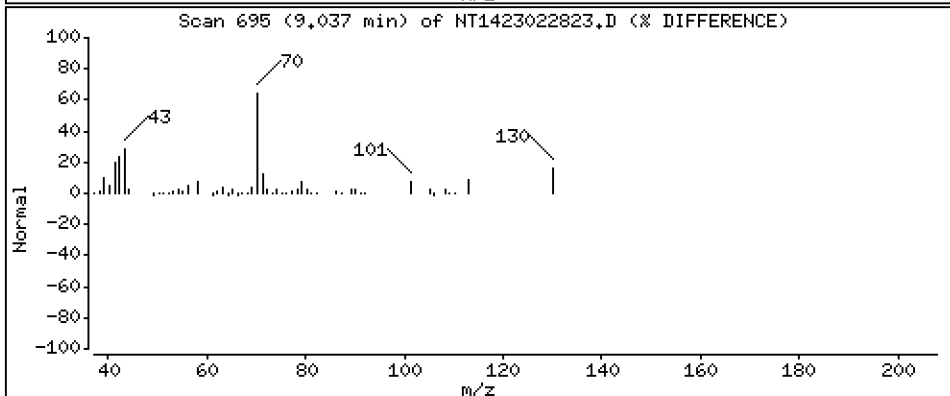
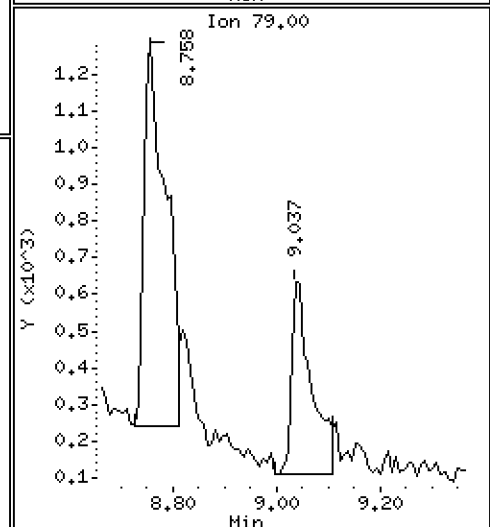
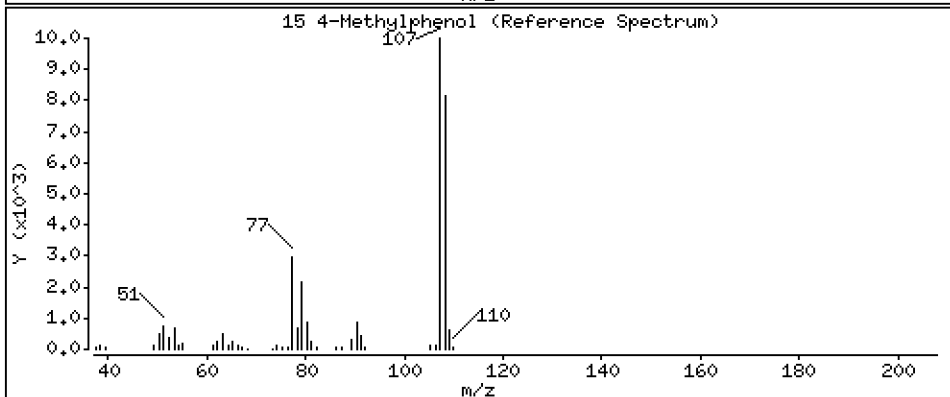
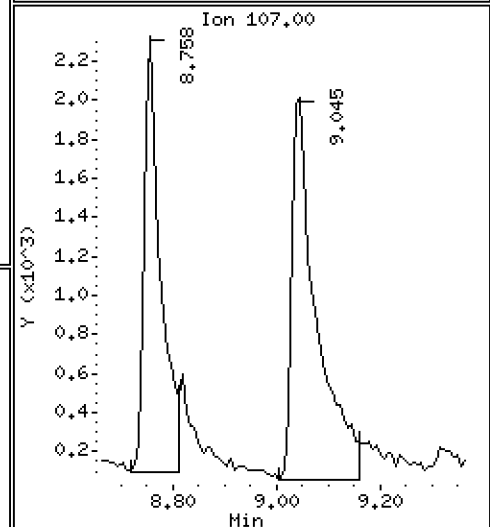
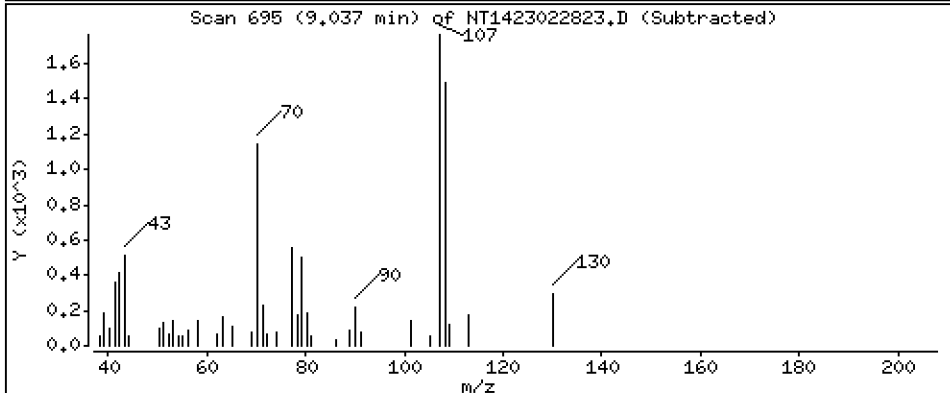
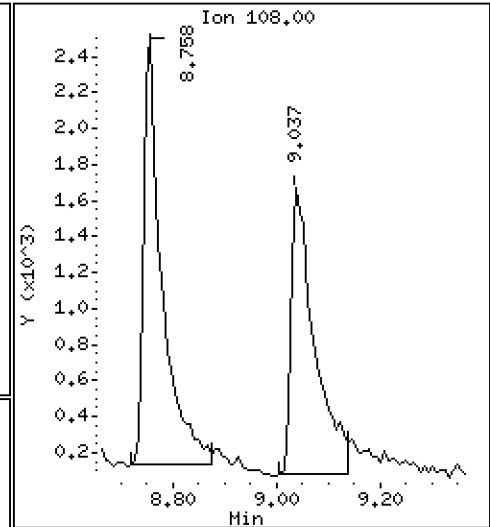
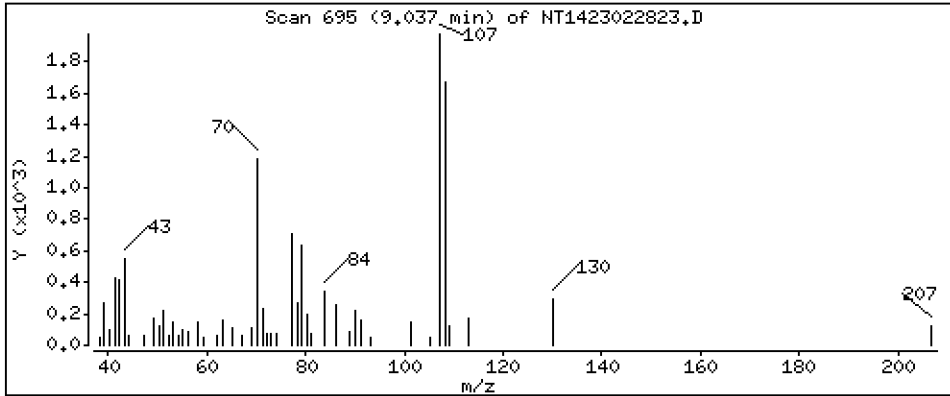
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1318 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

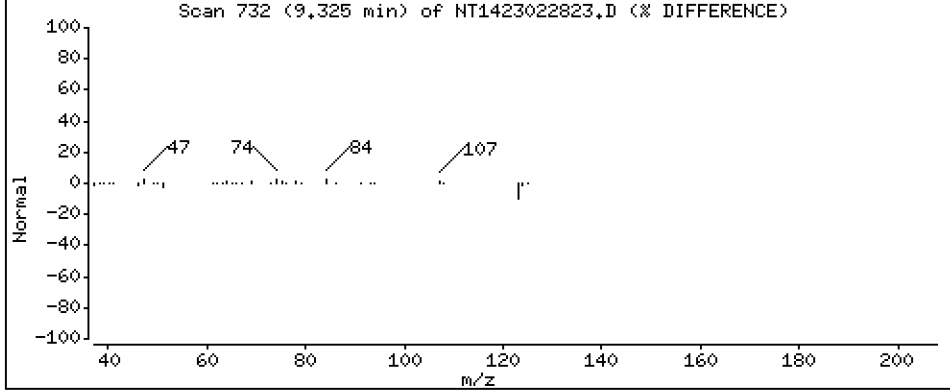
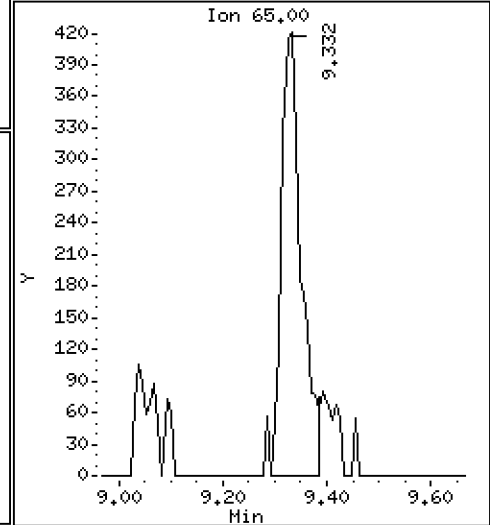
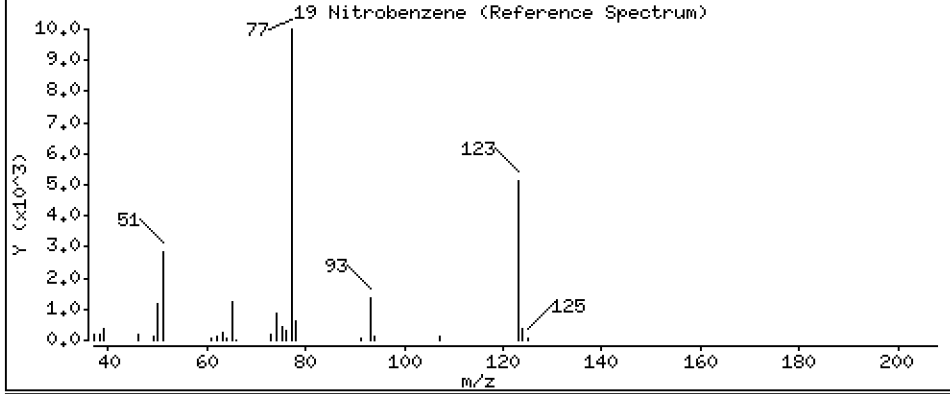
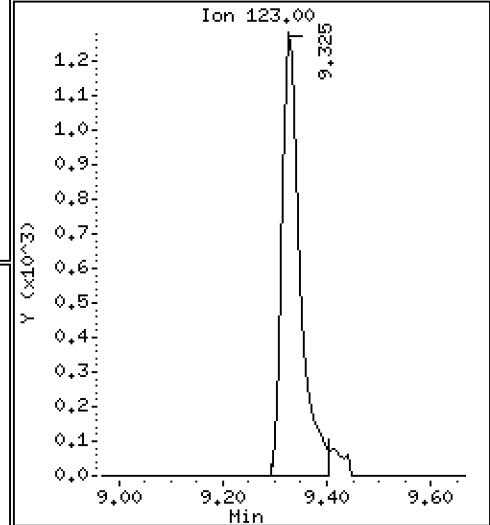
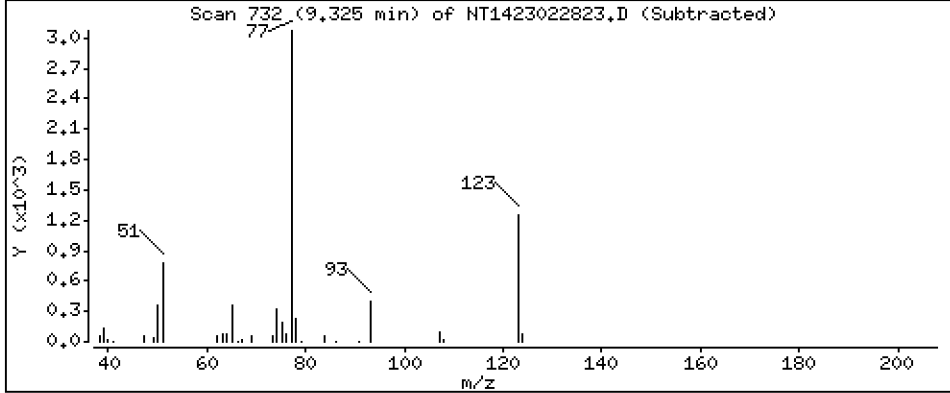
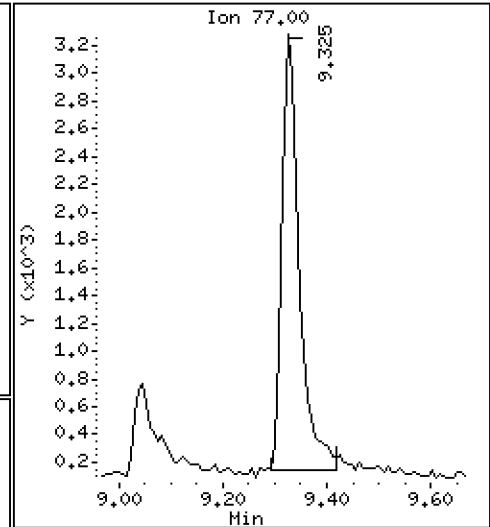
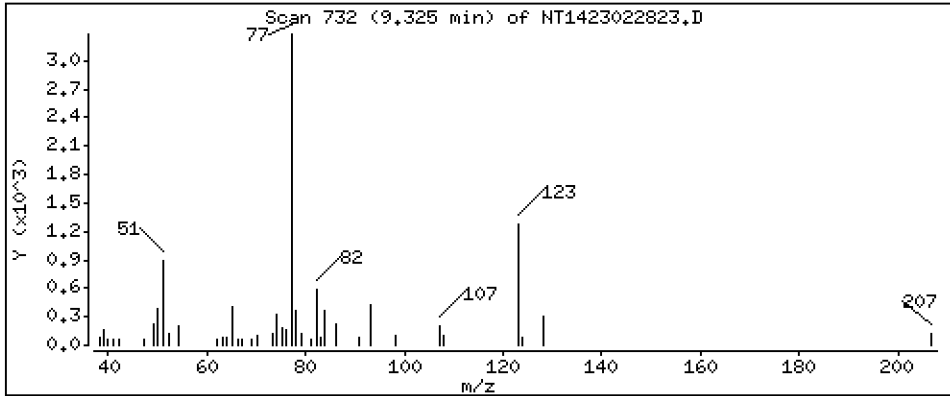
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

19 Nitrobenzene

Concentration: 0.1841 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

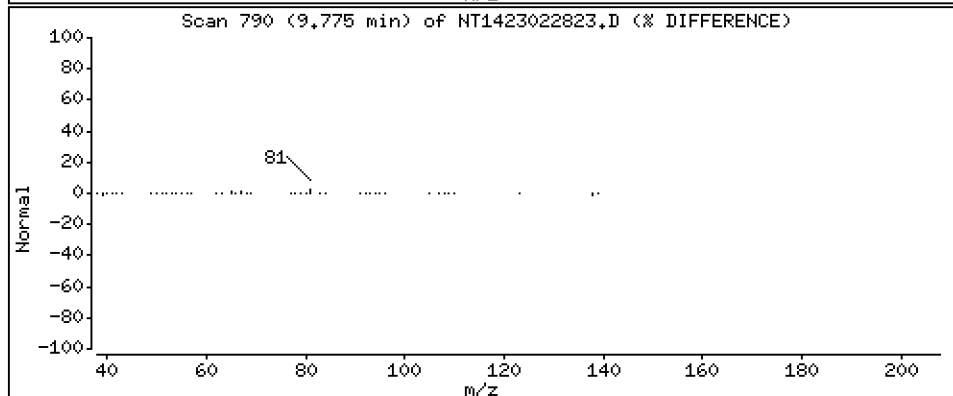
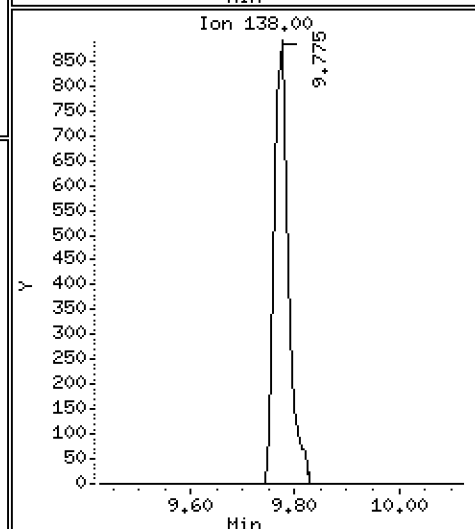
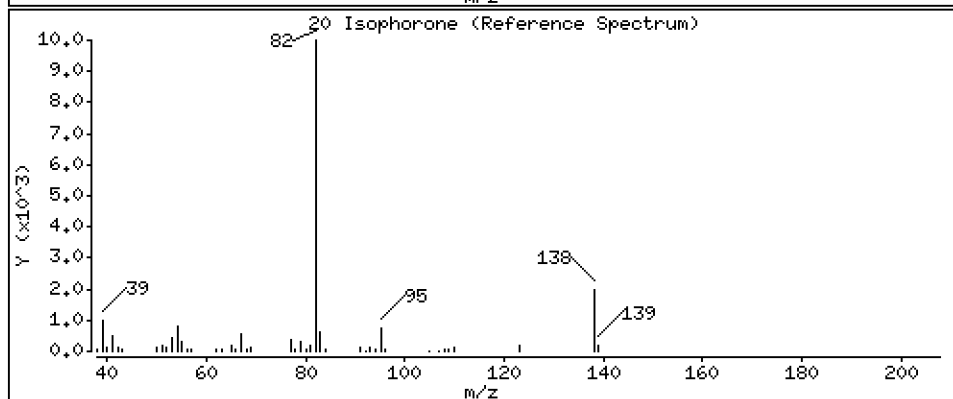
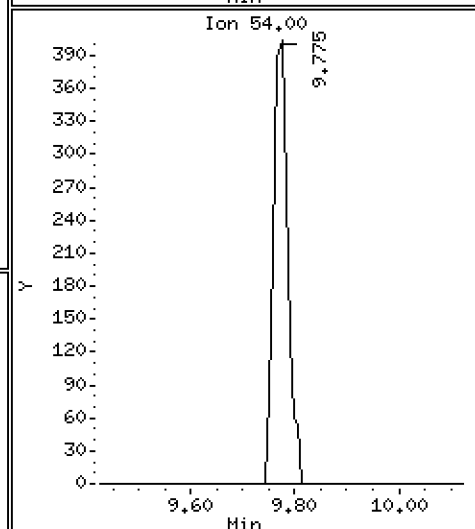
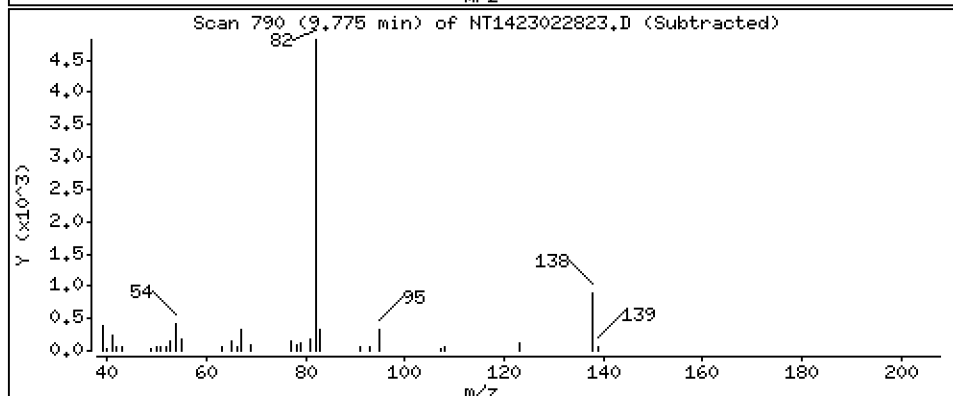
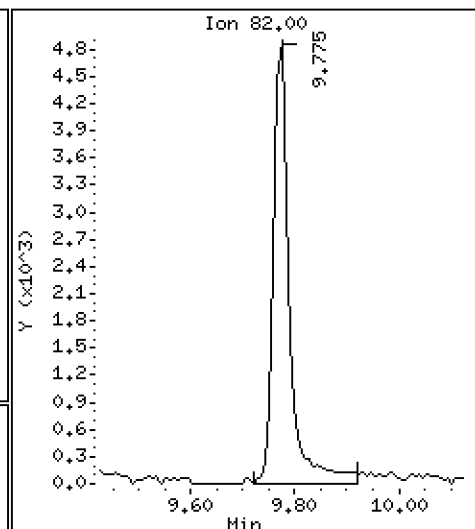
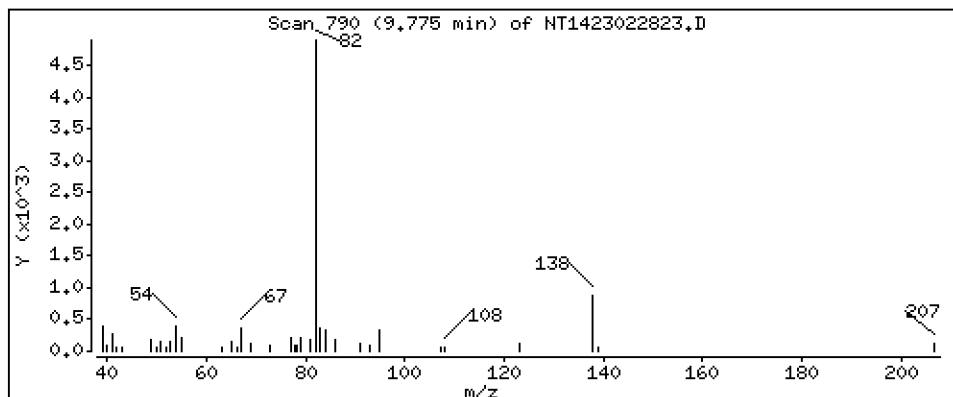
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.1811 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

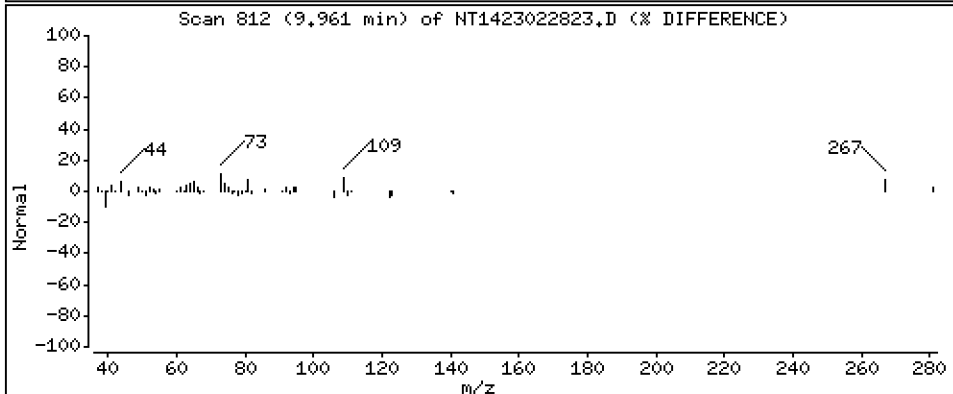
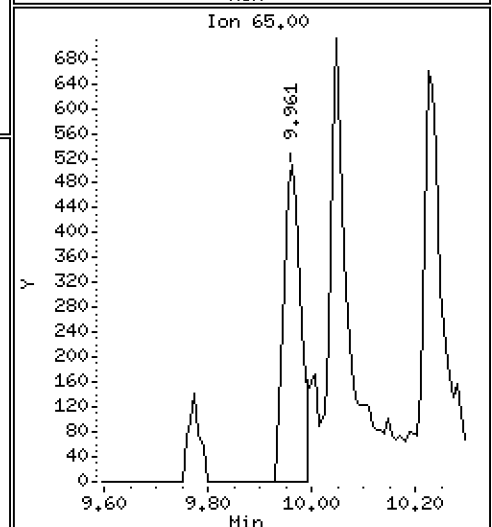
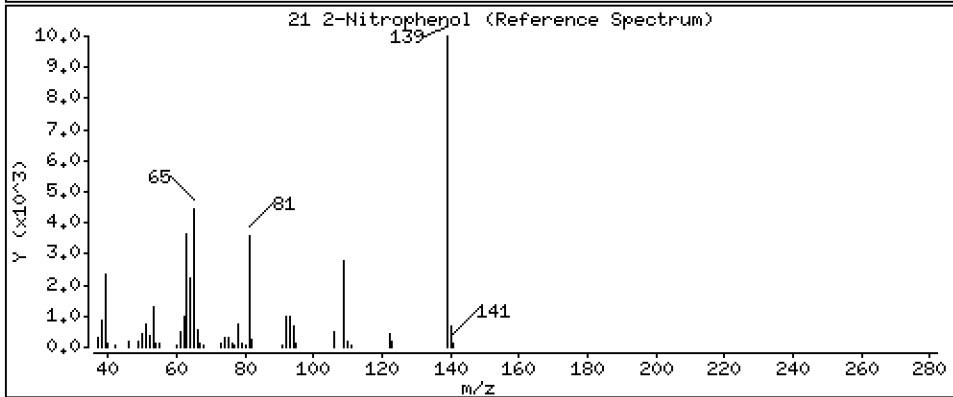
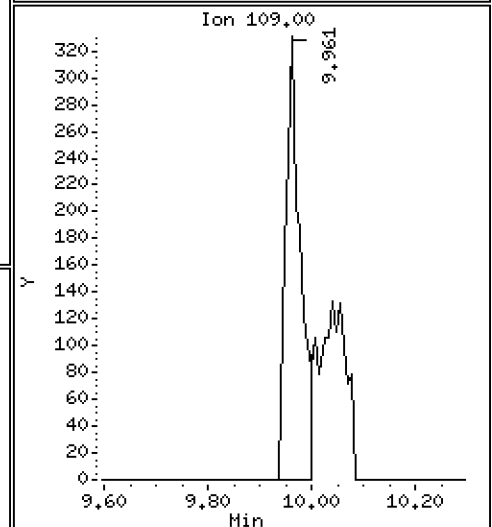
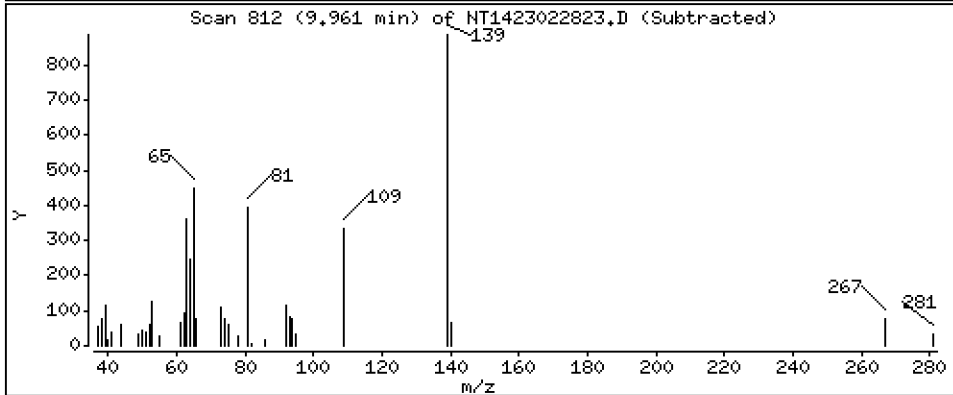
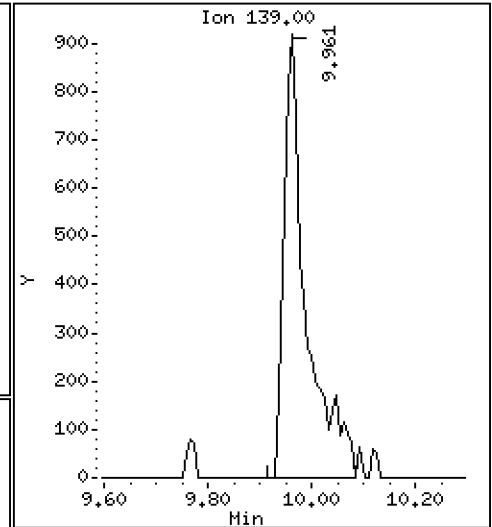
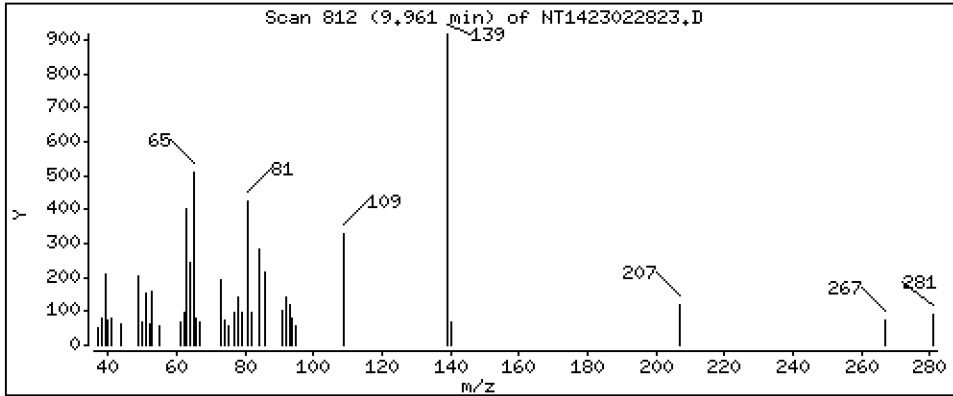
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,1380 ug/mL





Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

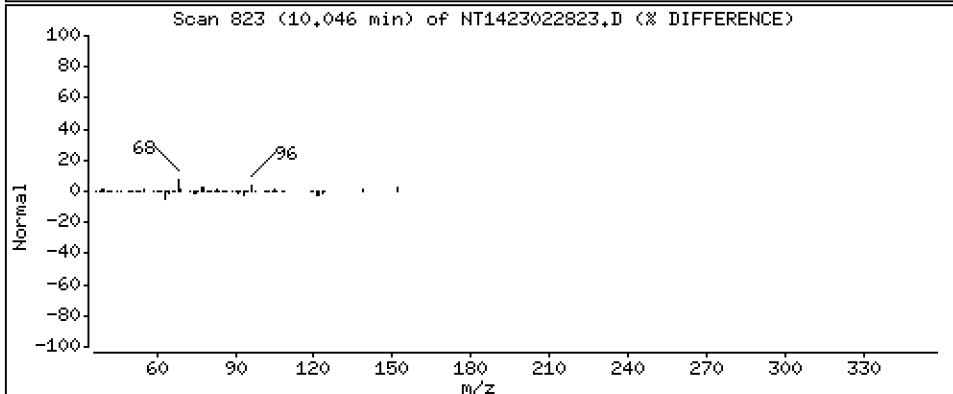
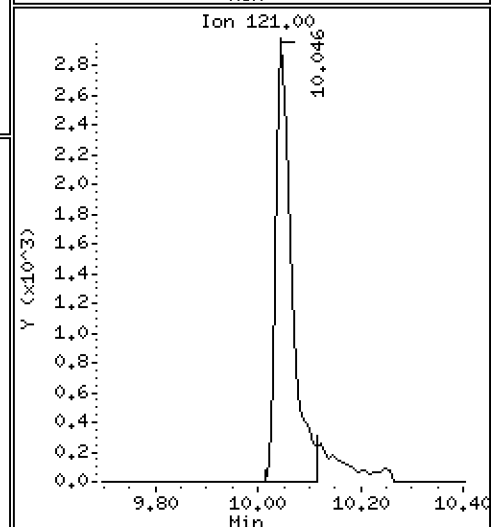
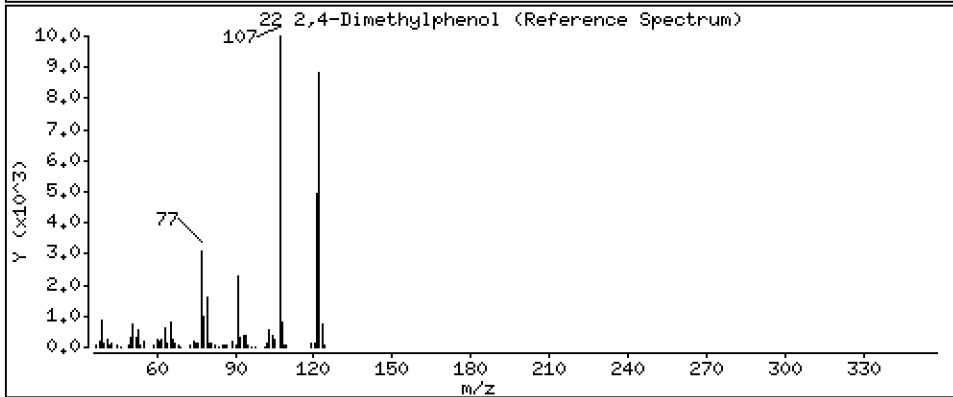
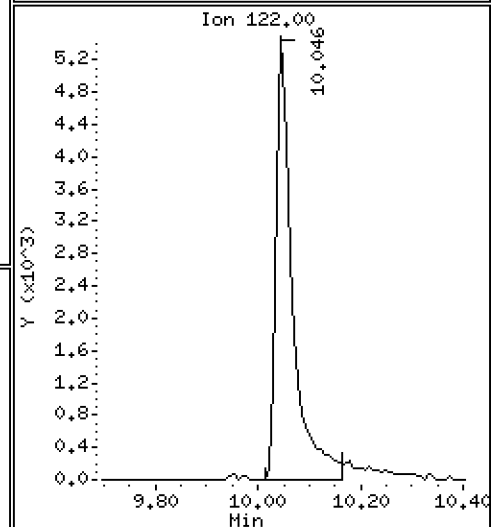
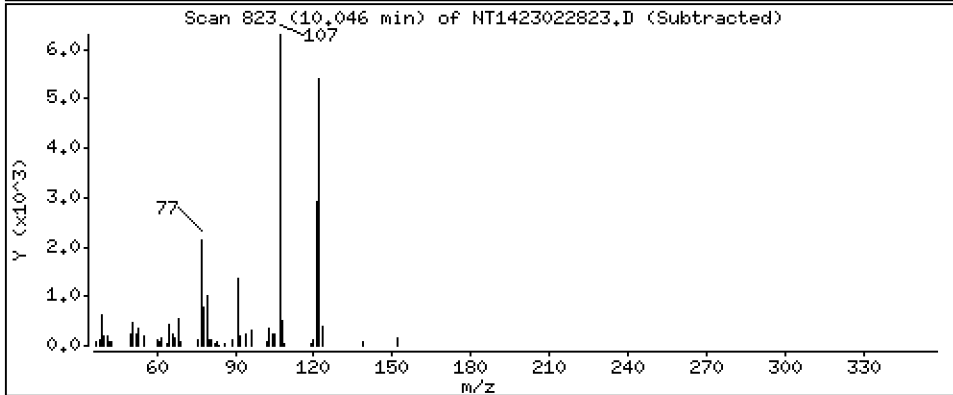
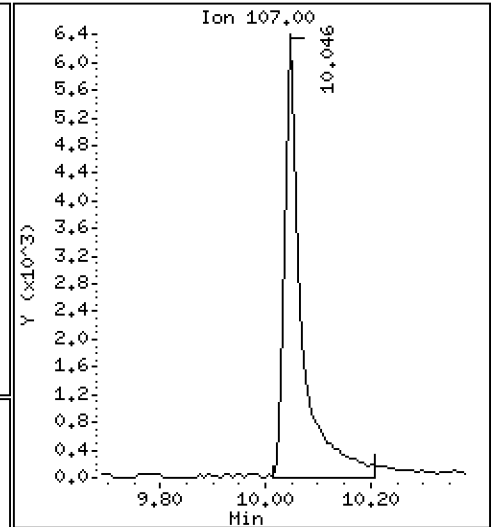
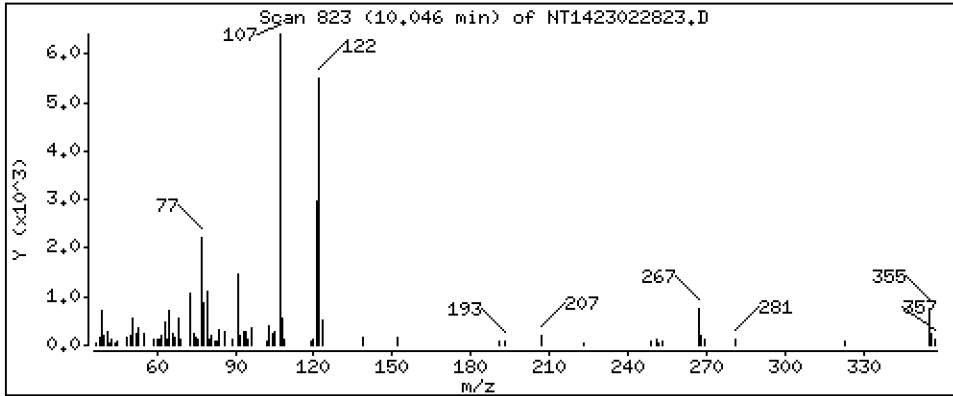
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,4132 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

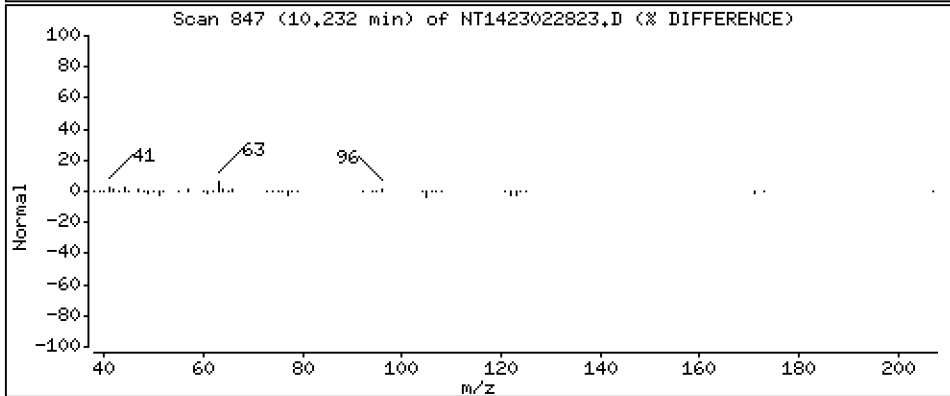
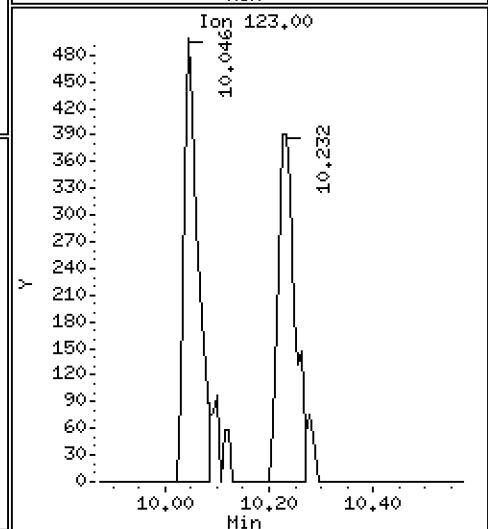
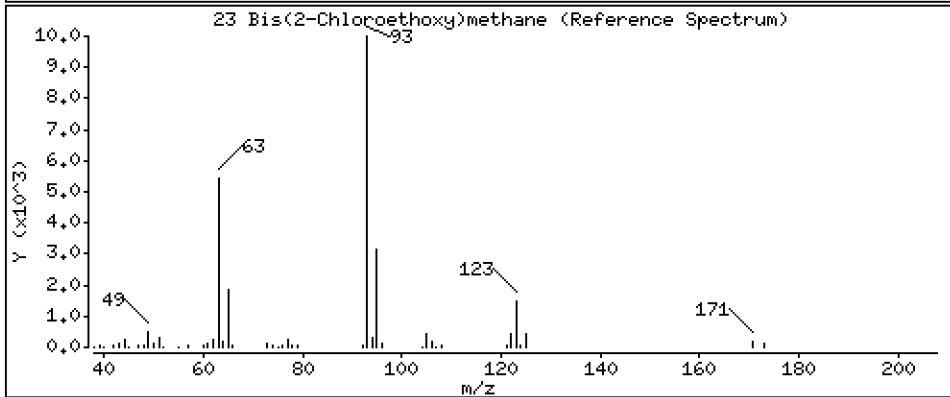
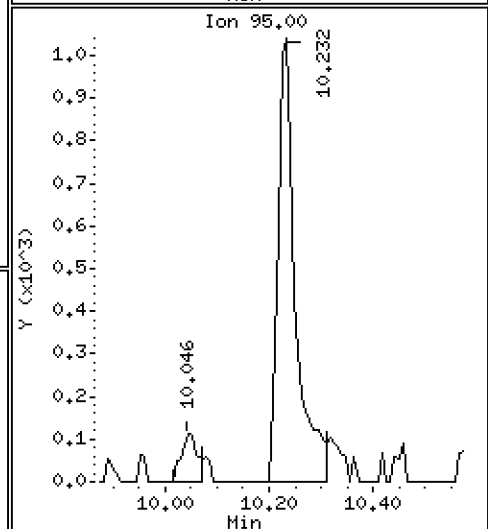
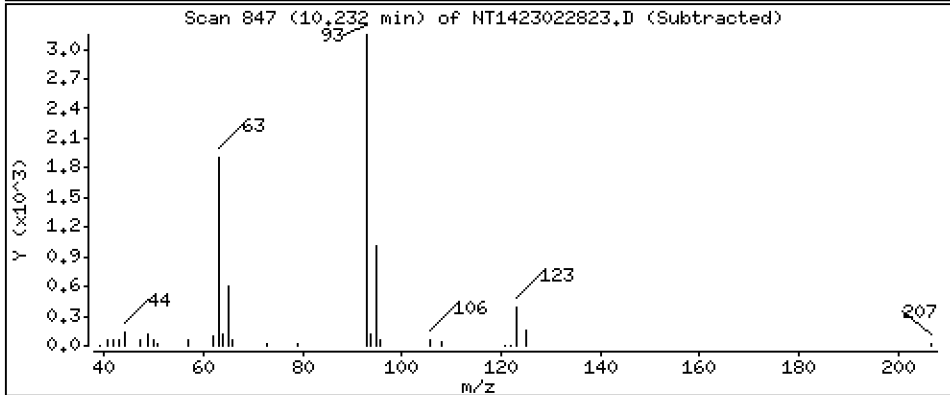
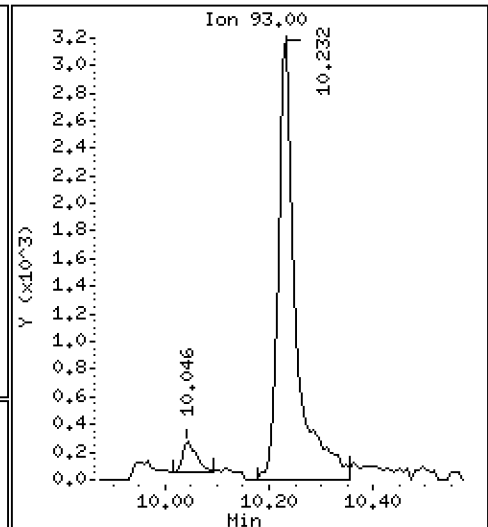
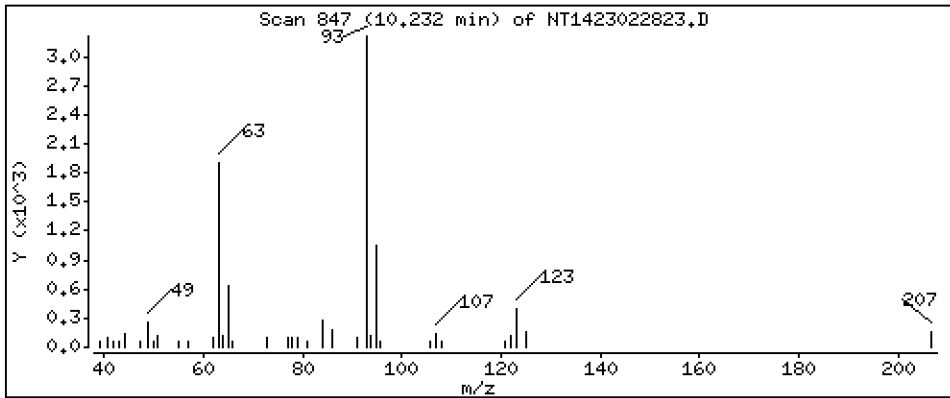
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 0.1957 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

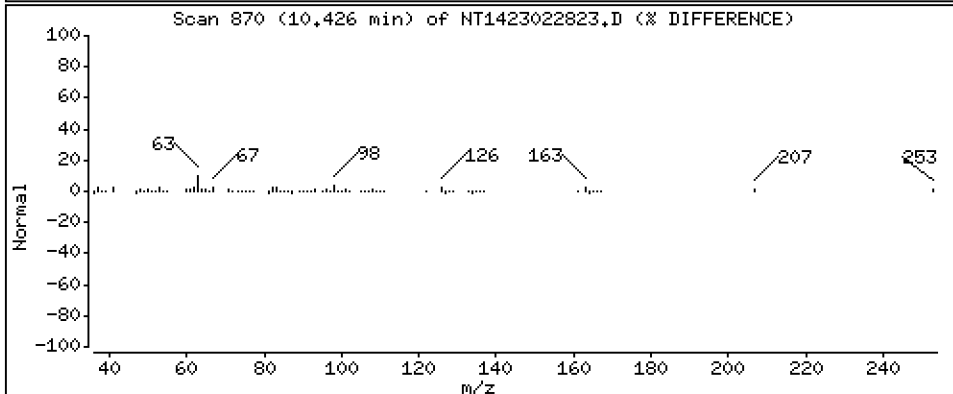
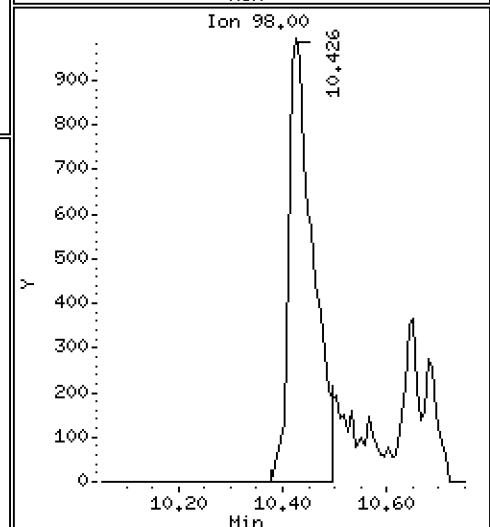
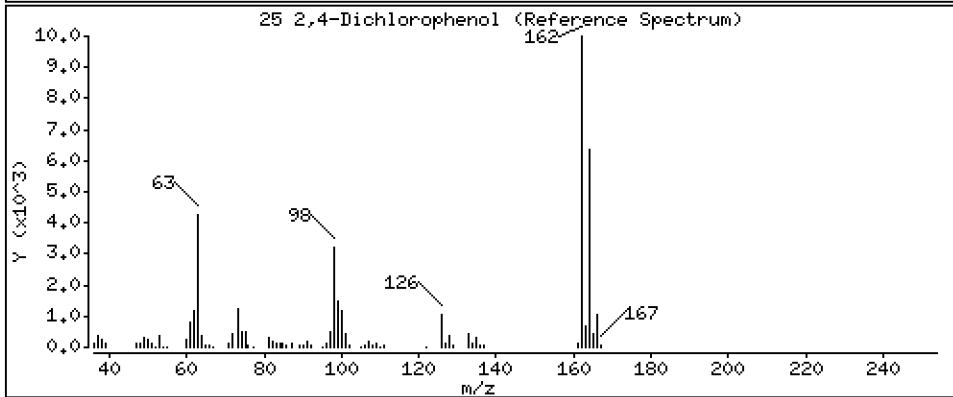
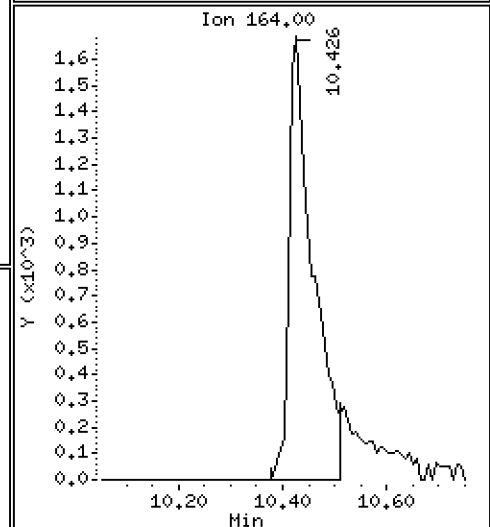
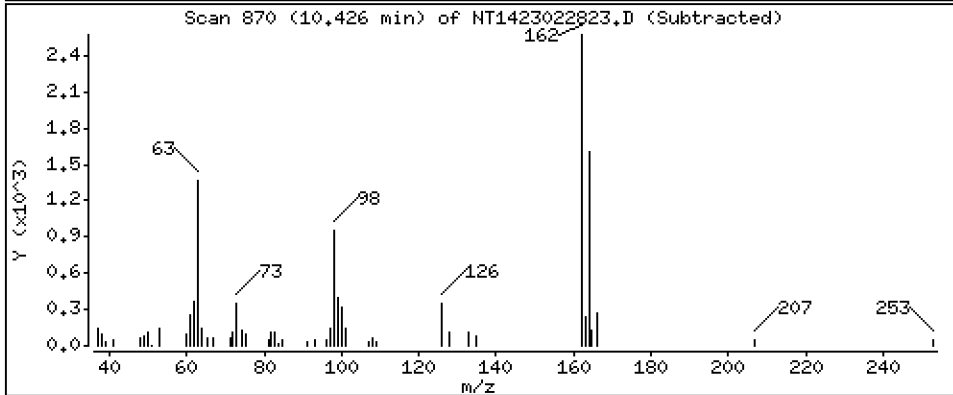
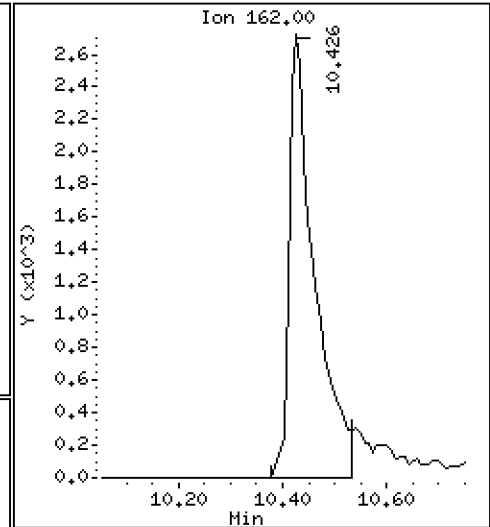
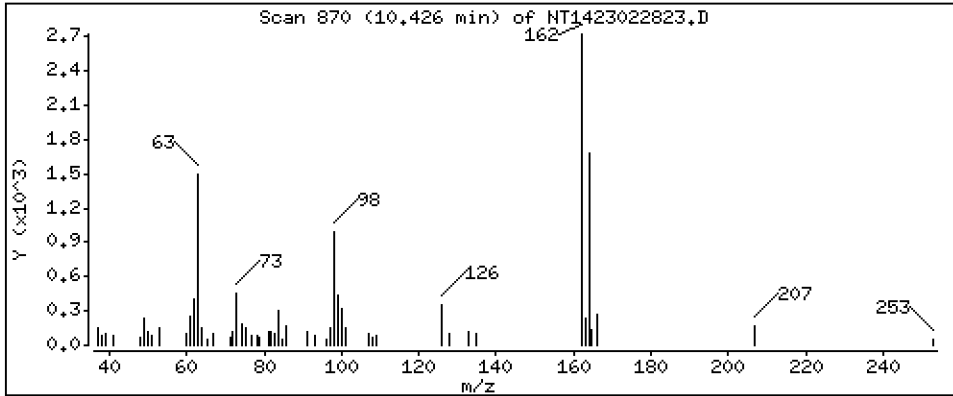
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,2896 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

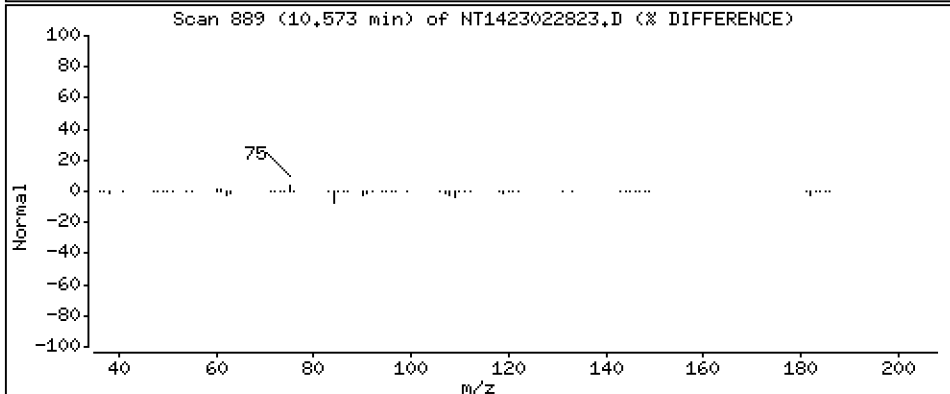
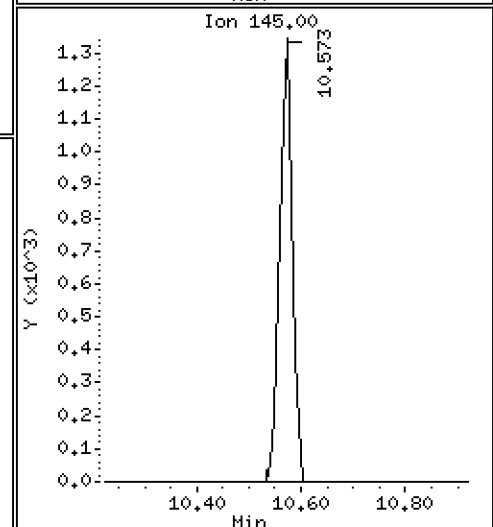
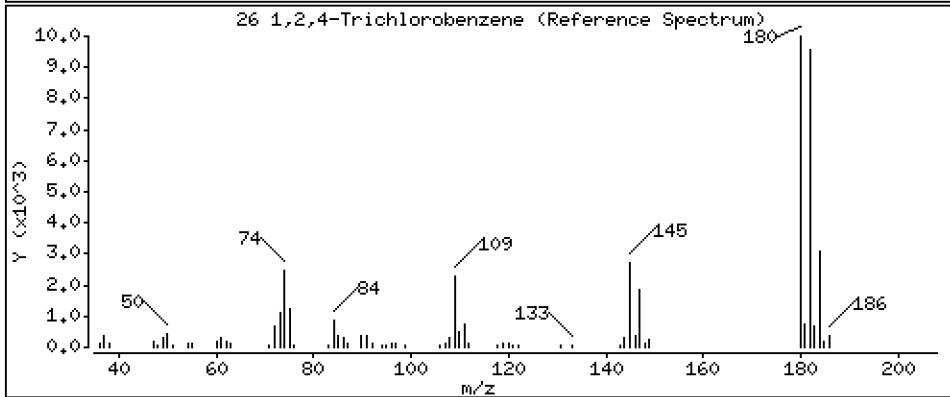
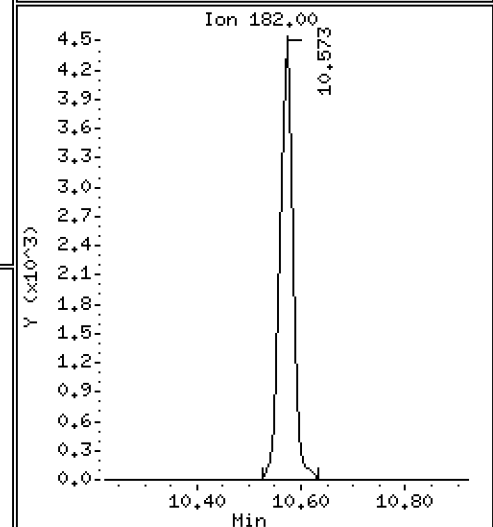
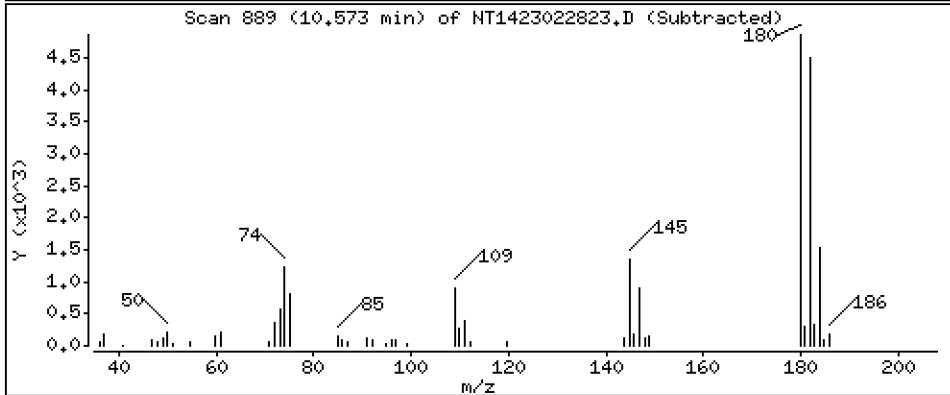
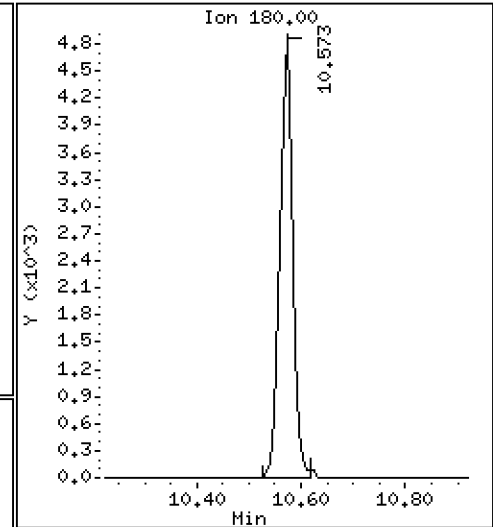
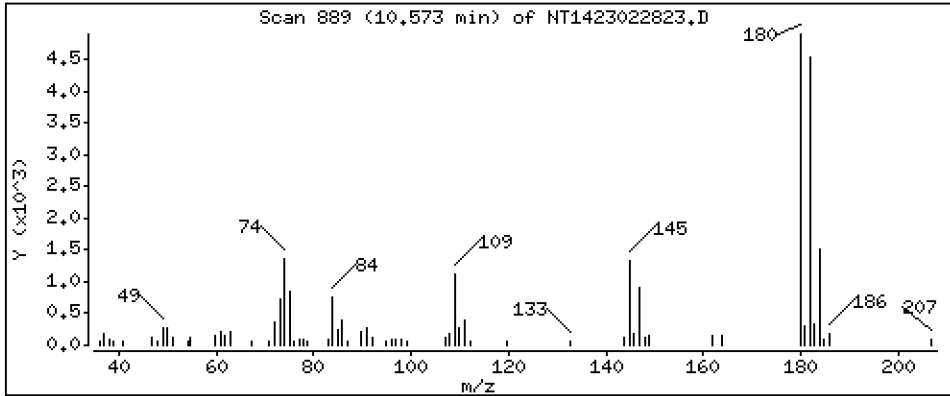
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,2035 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

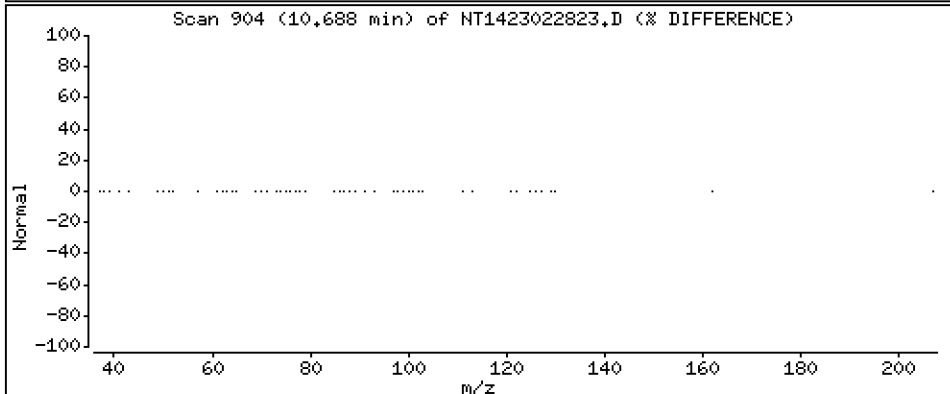
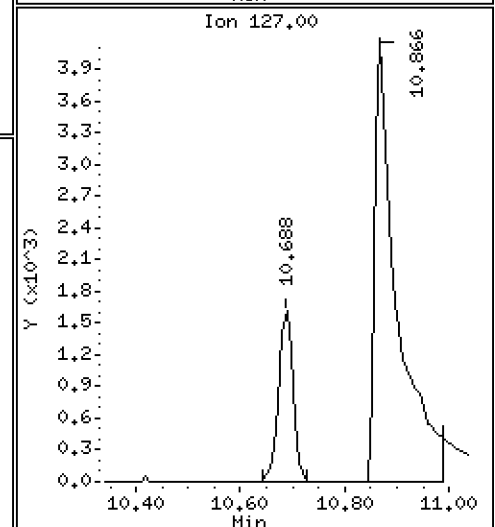
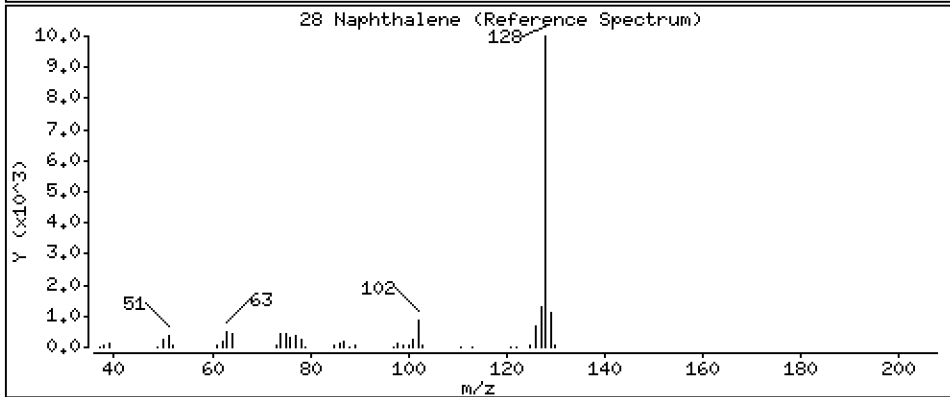
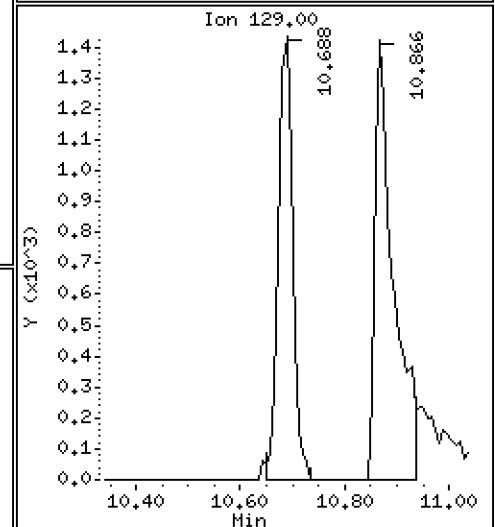
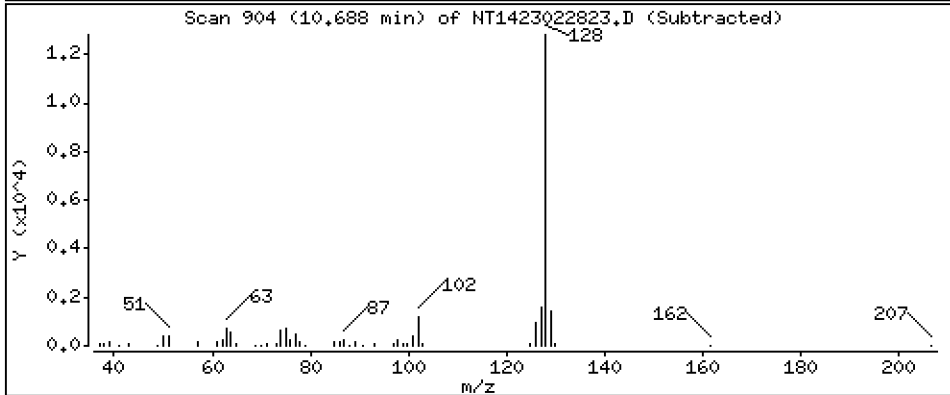
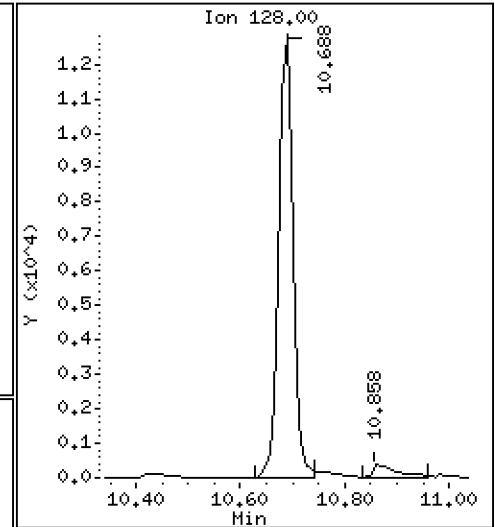
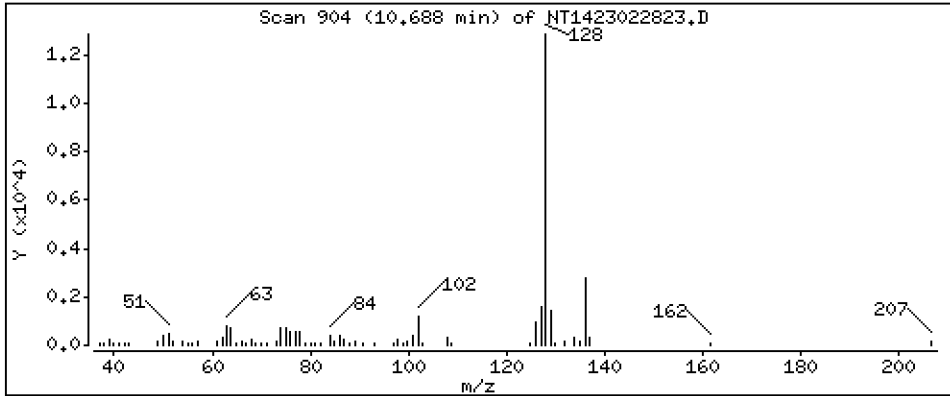
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2136 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

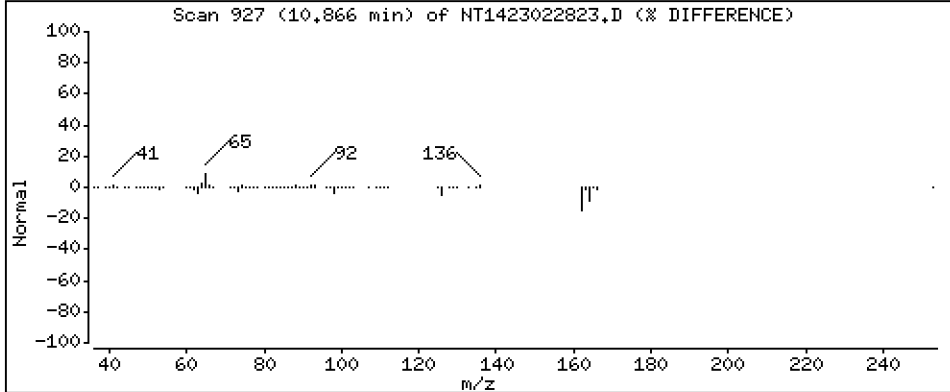
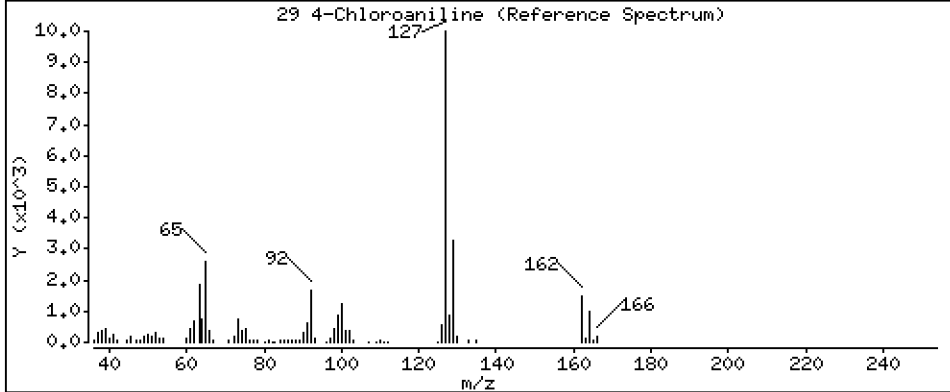
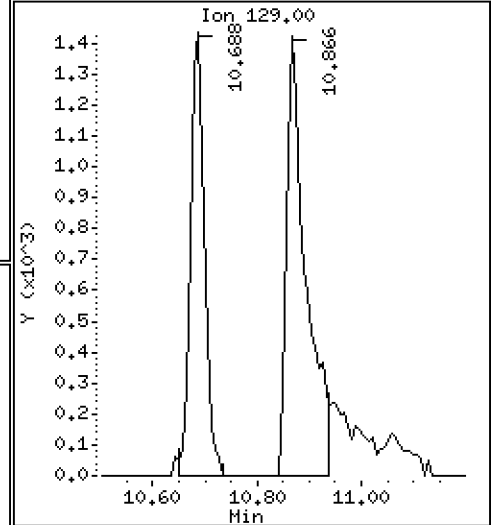
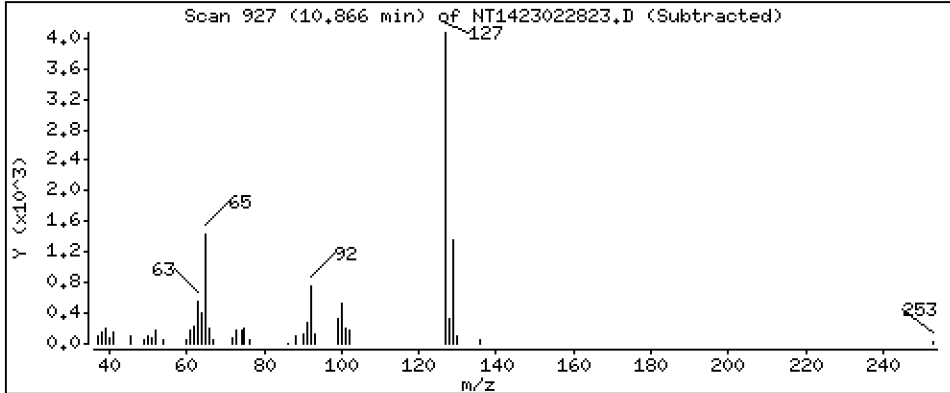
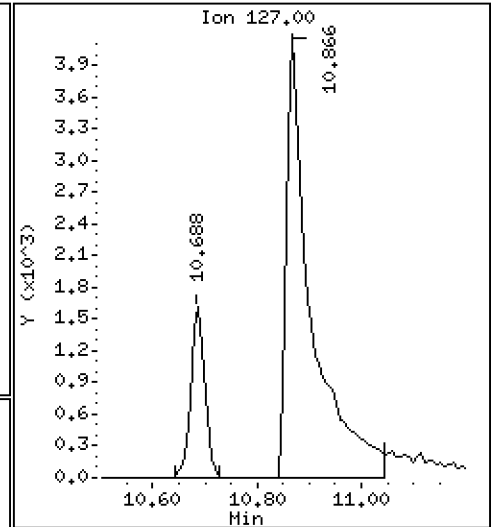
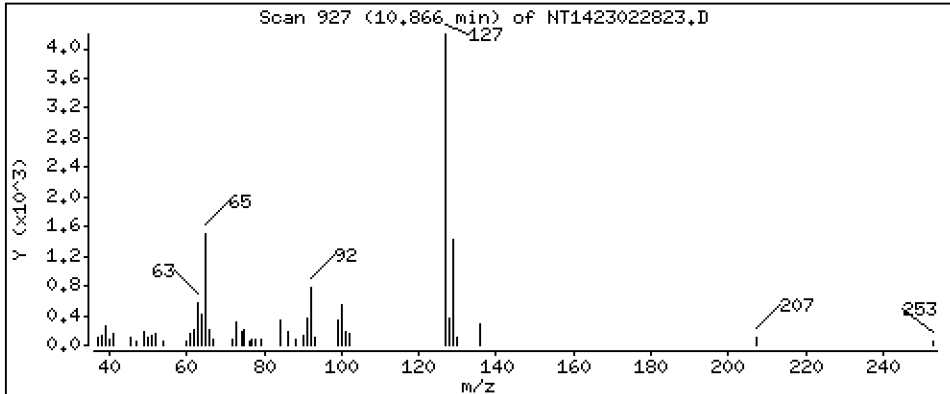
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

29 4-Chloroaniline

Concentration: 0.3143 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

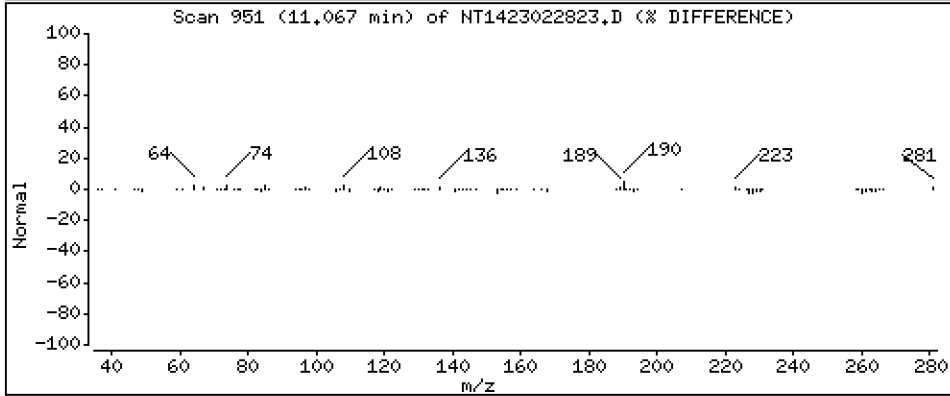
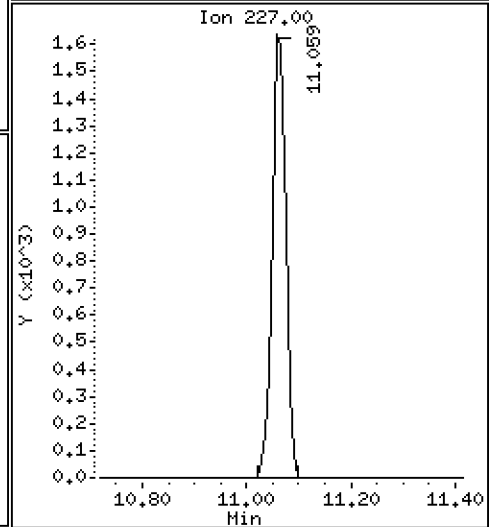
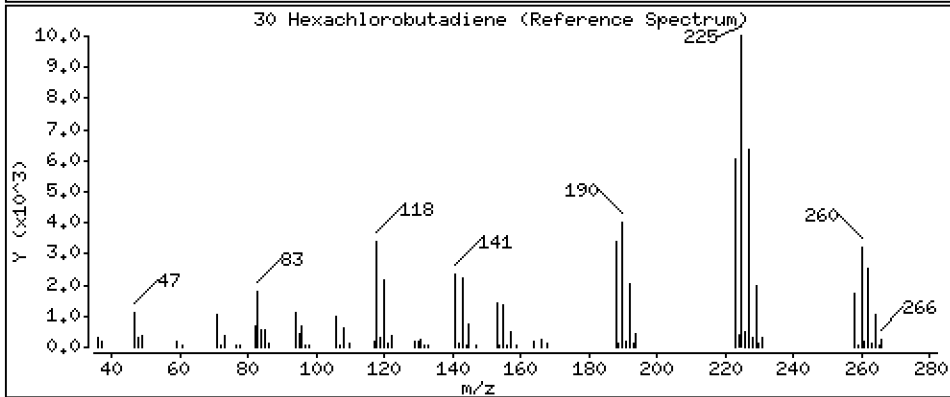
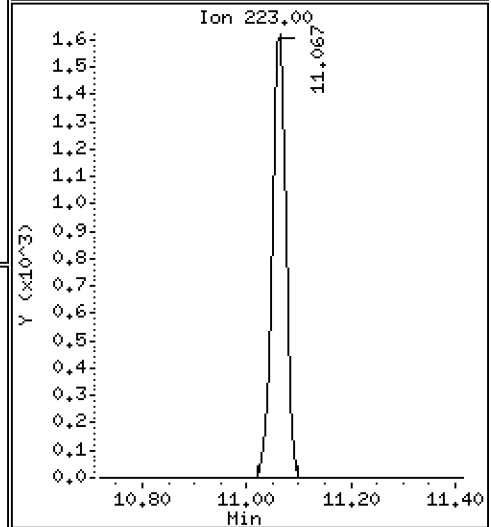
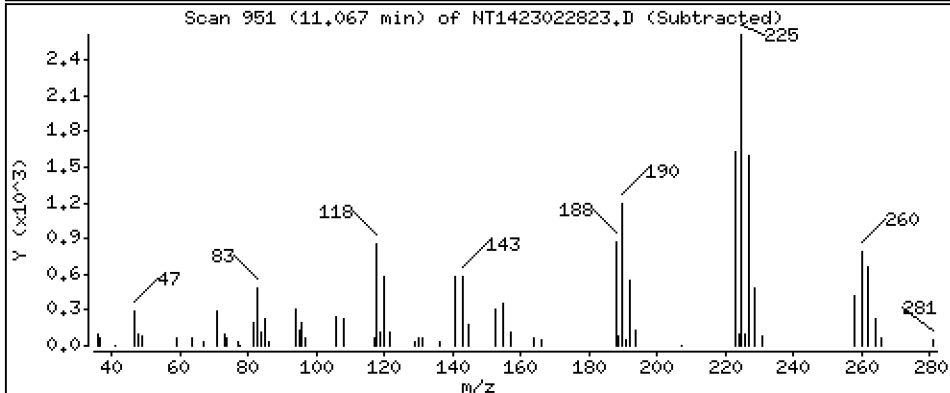
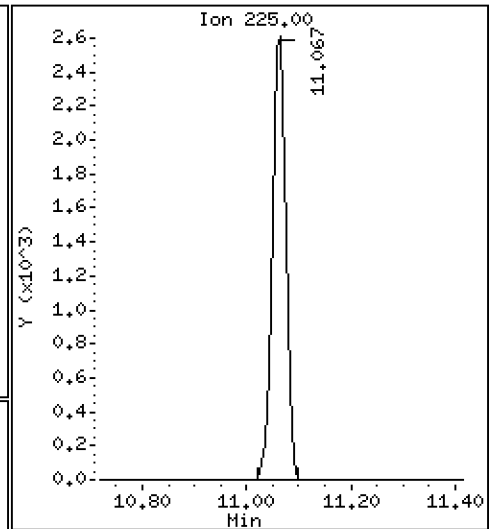
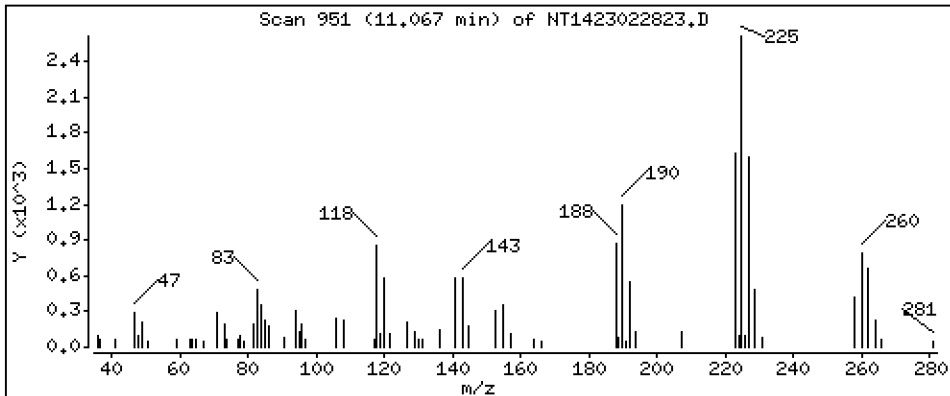
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,1874 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

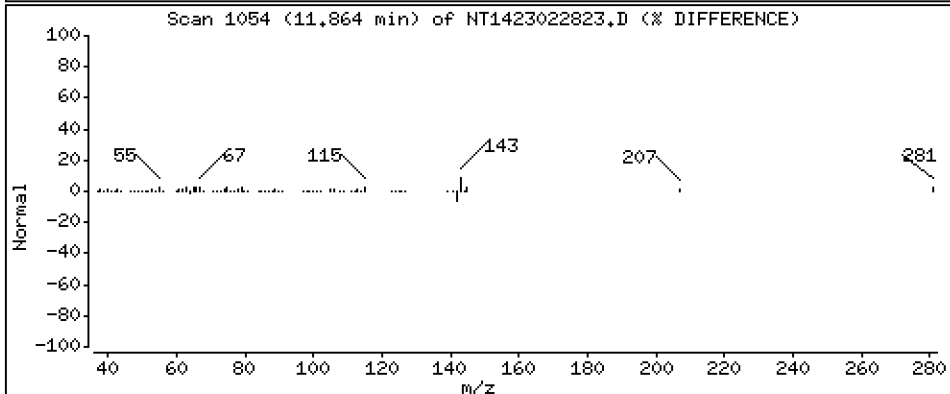
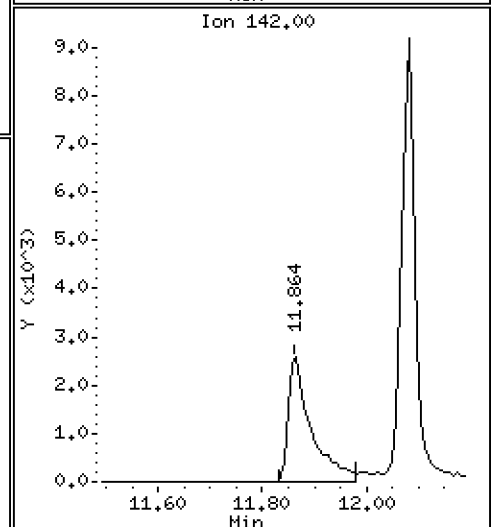
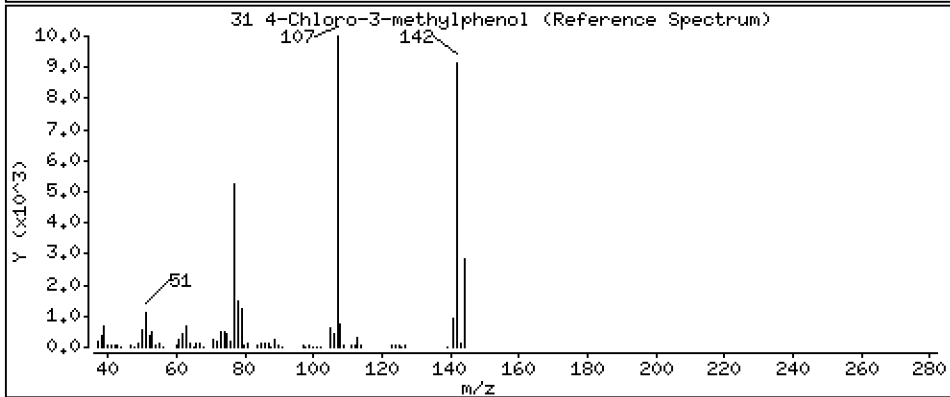
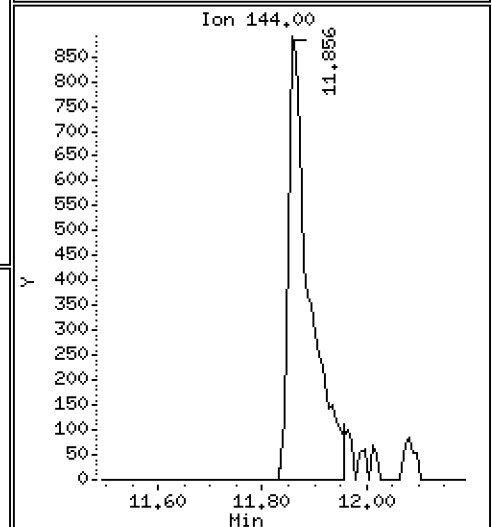
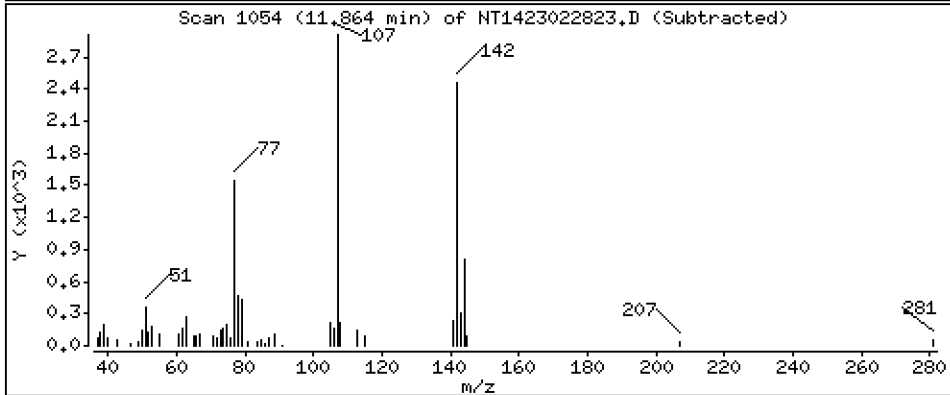
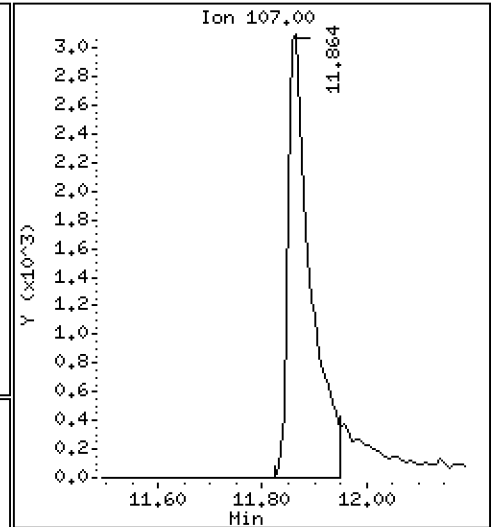
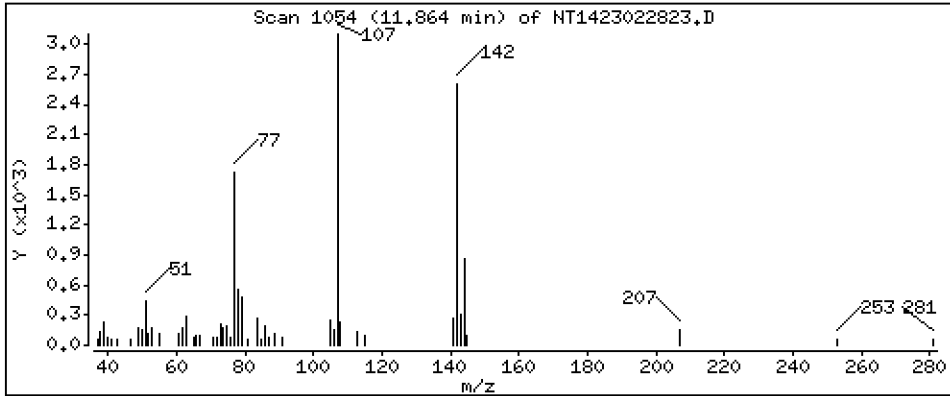
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 0.3044 ug/mL





Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

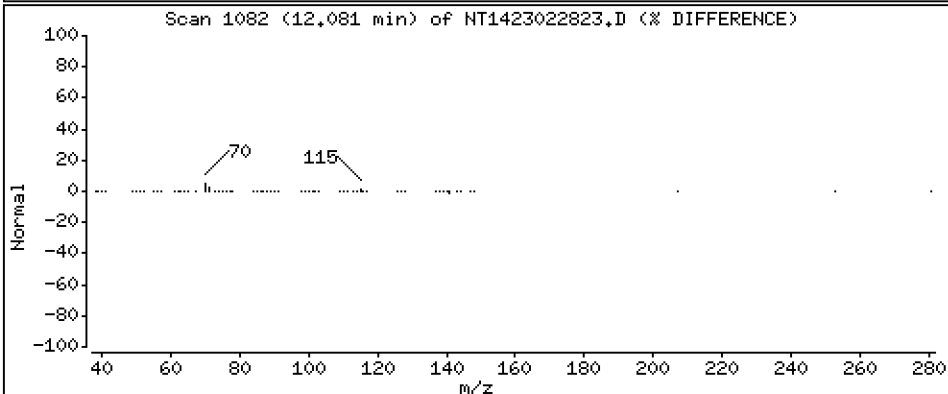
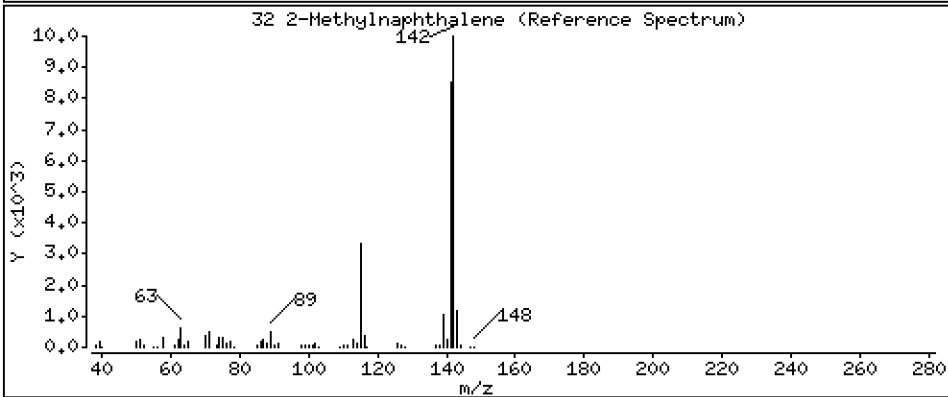
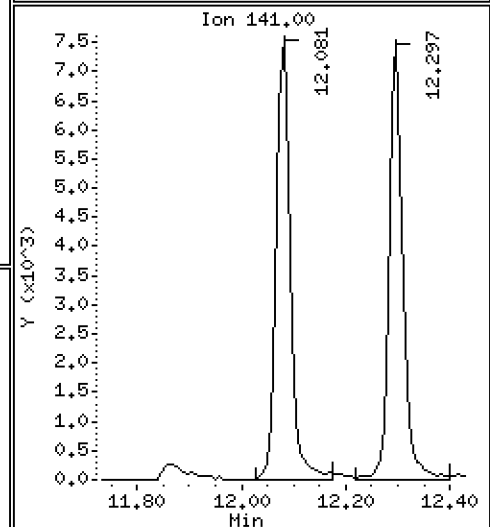
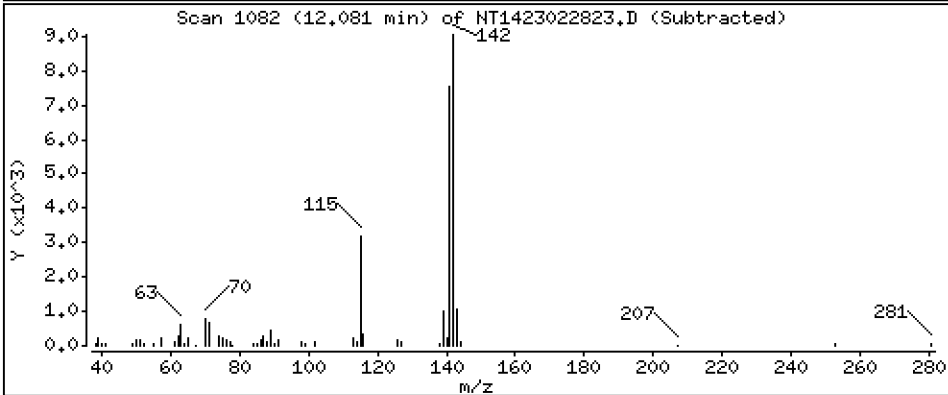
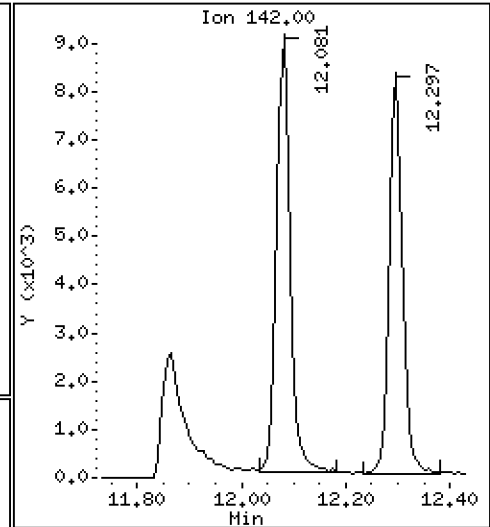
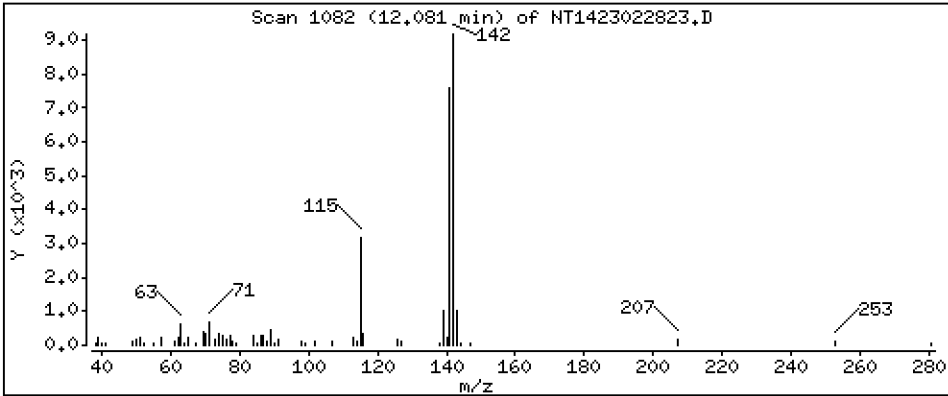
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1941 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

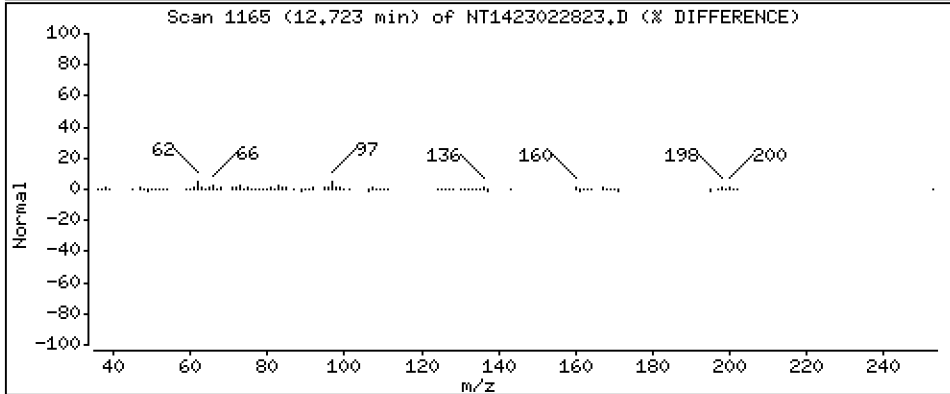
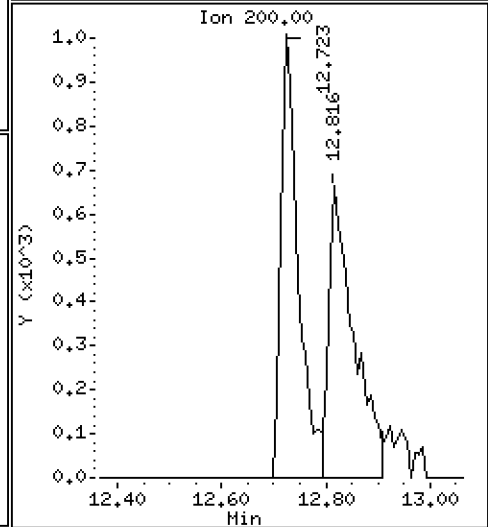
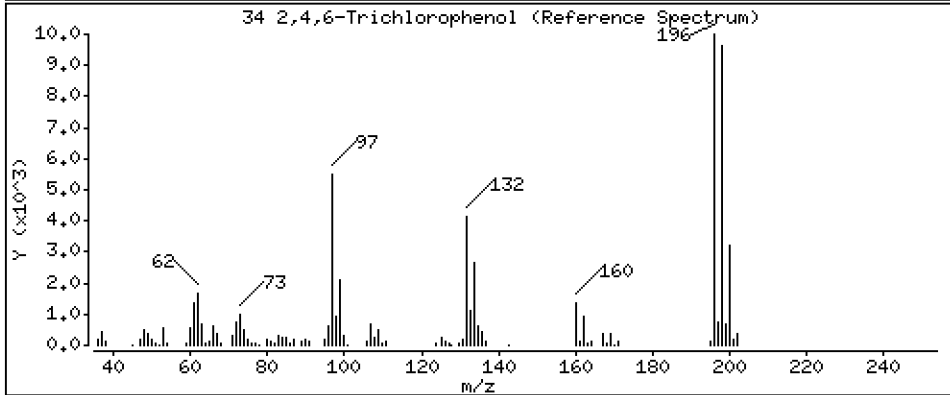
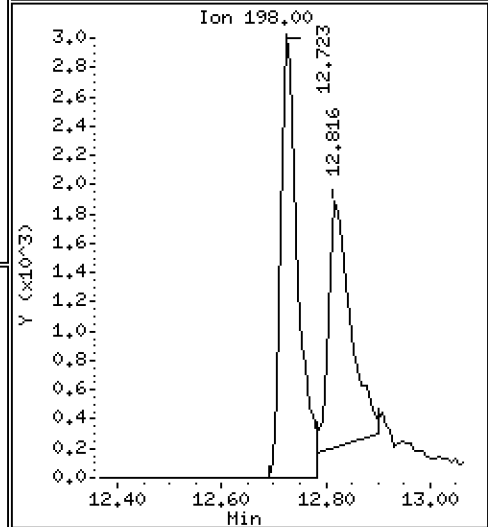
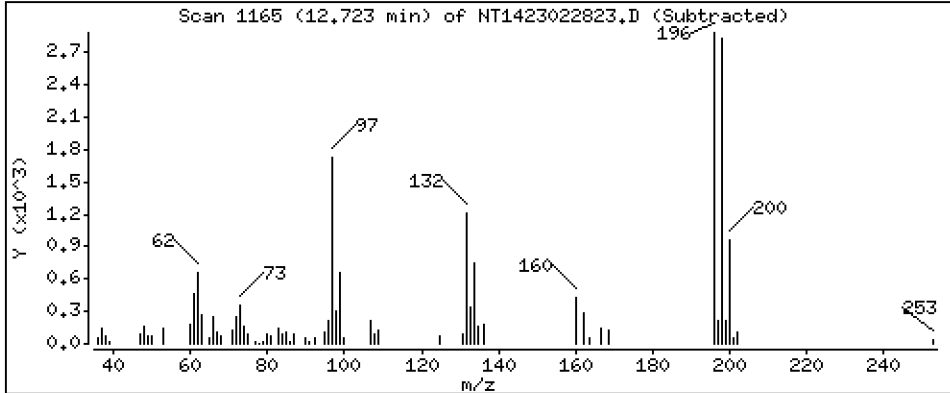
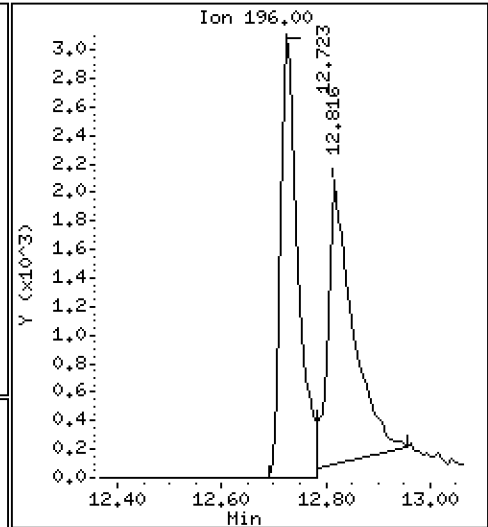
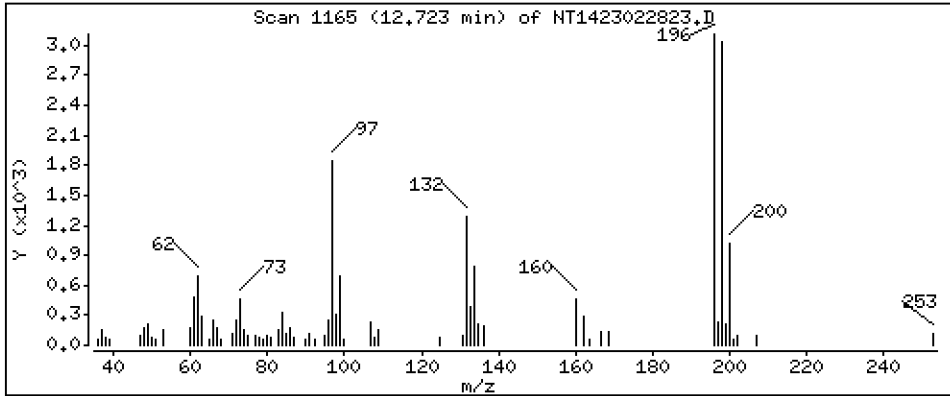
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

34 2,4,6-Trichlorophenol

Concentration: 0.3126 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

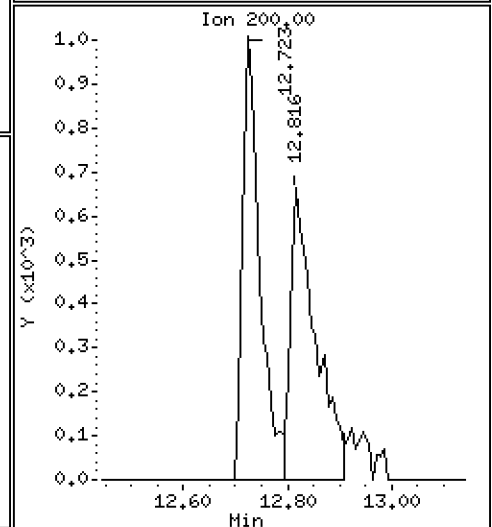
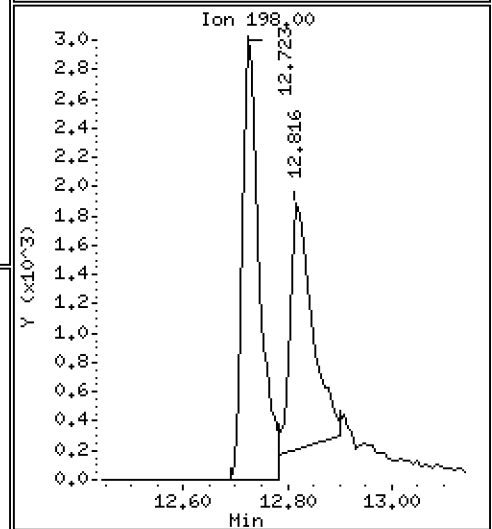
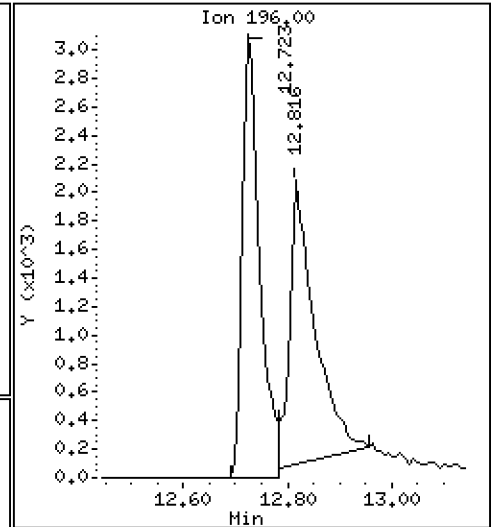
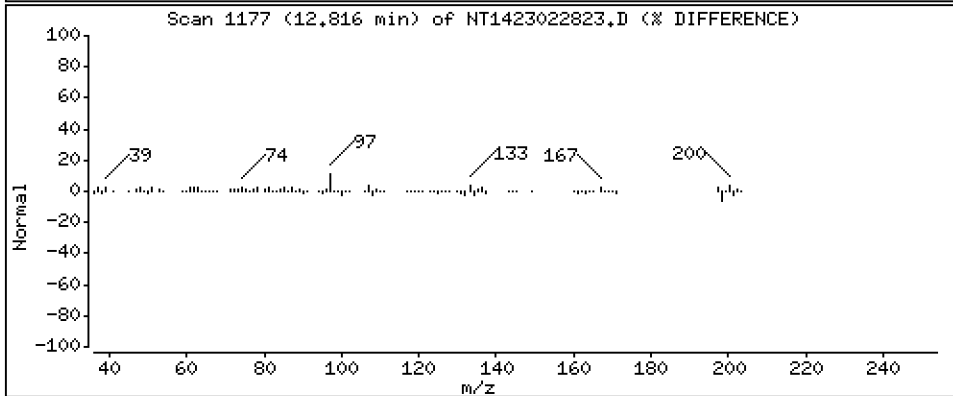
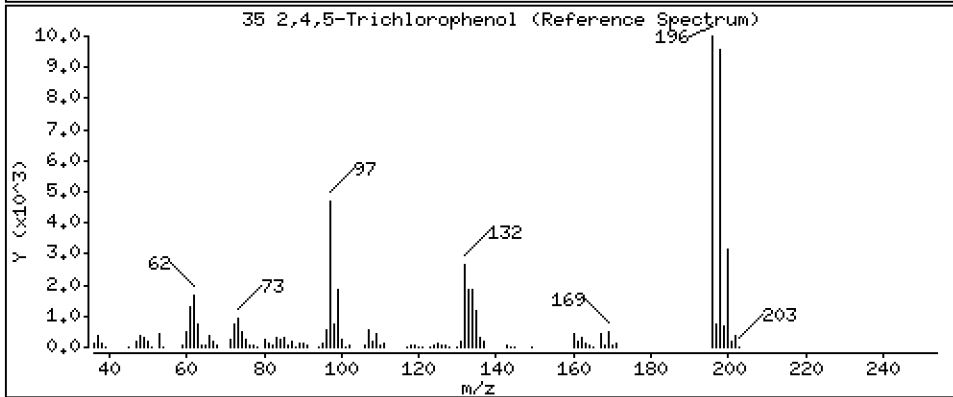
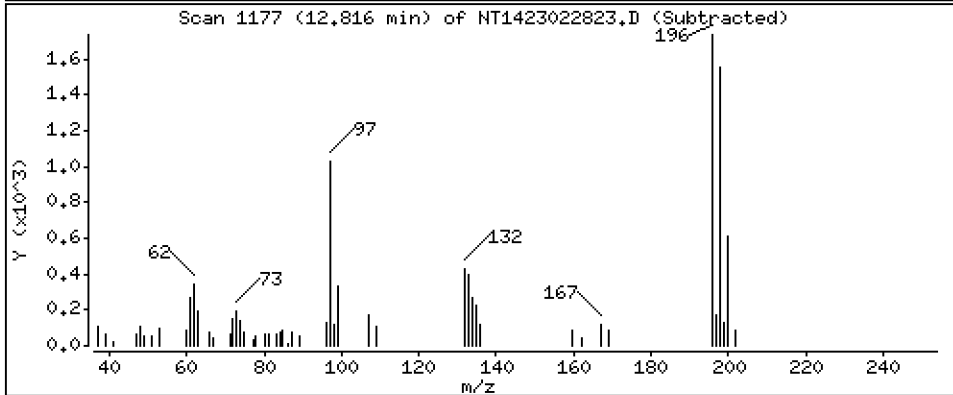
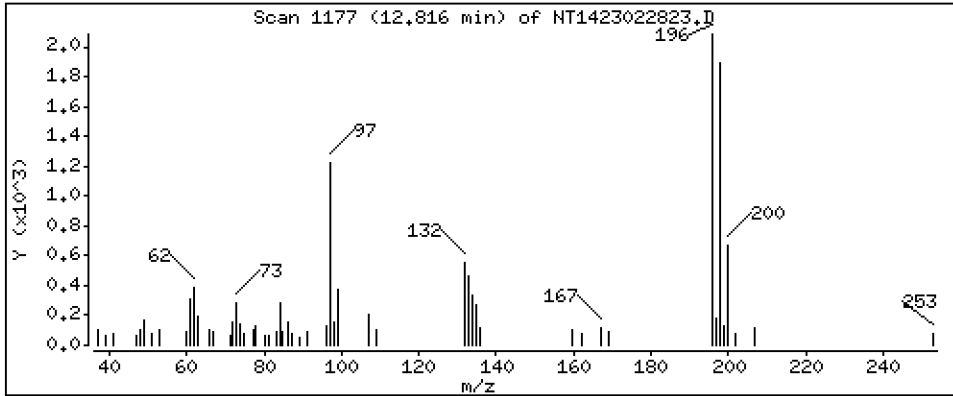
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,2764 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

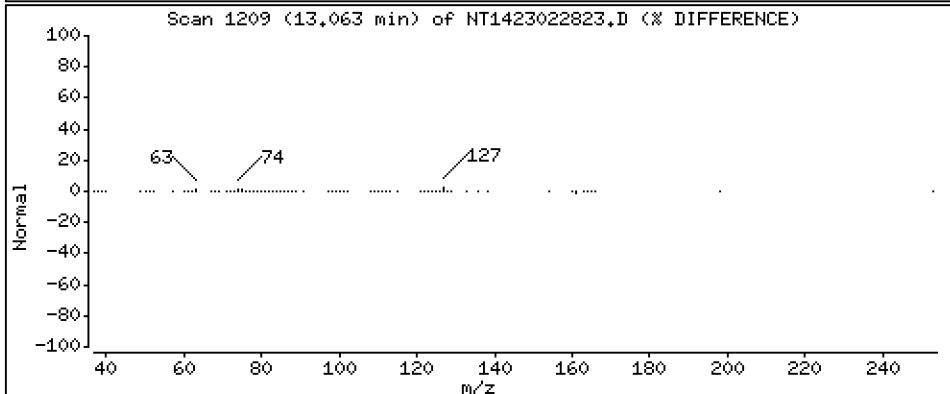
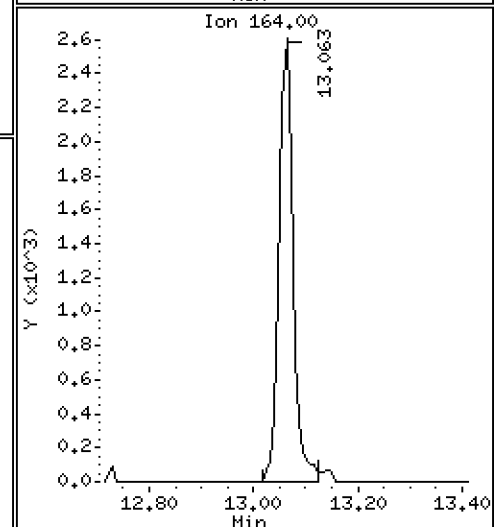
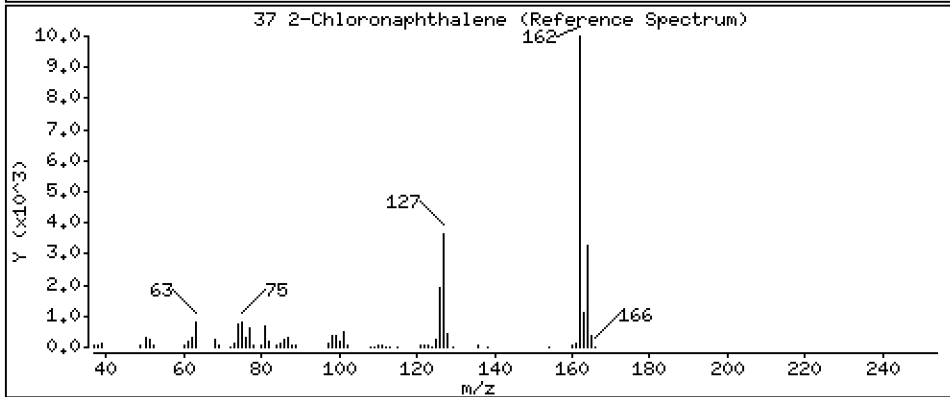
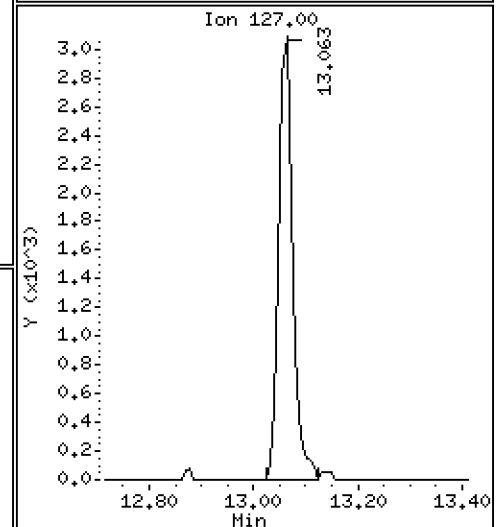
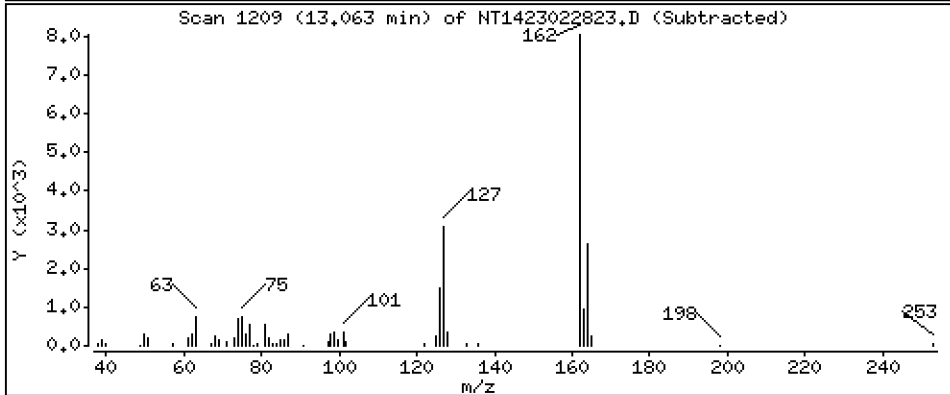
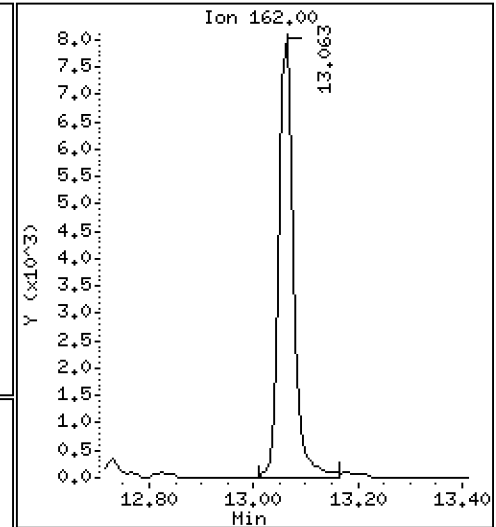
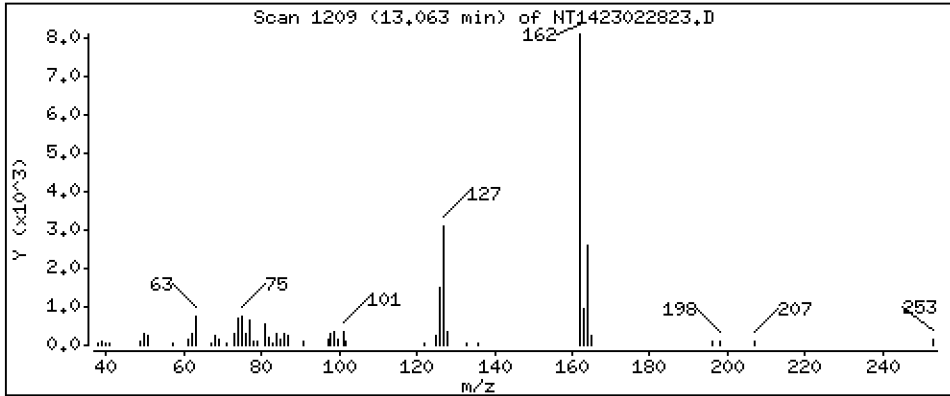
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,2077 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

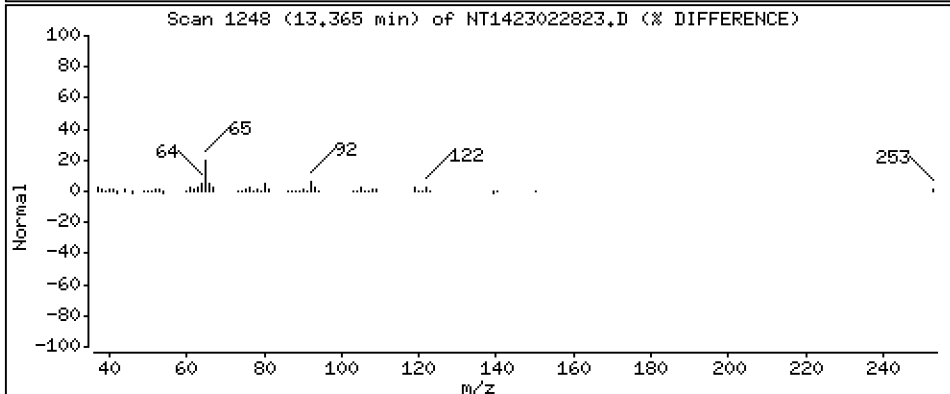
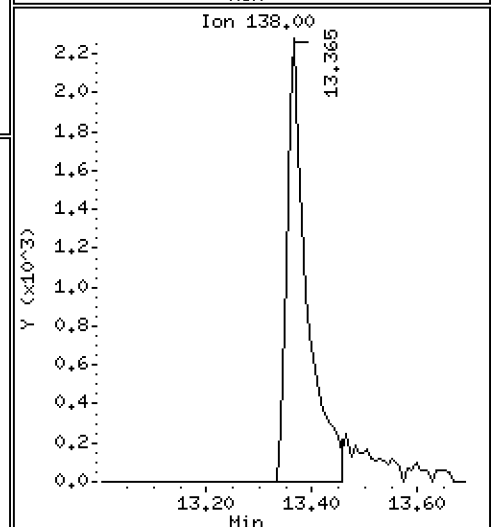
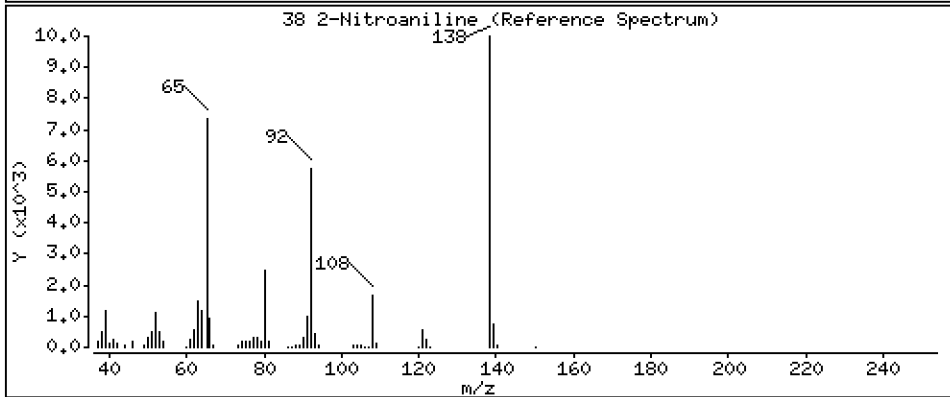
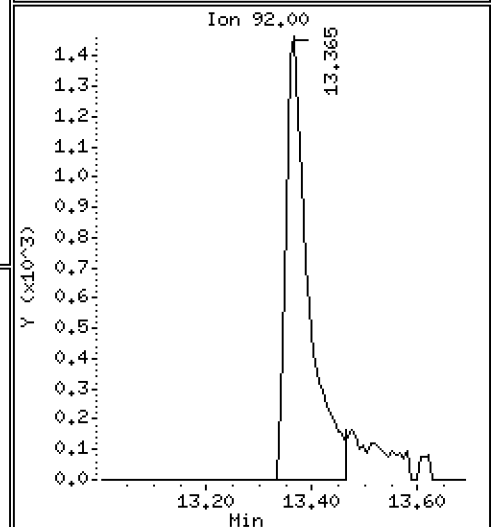
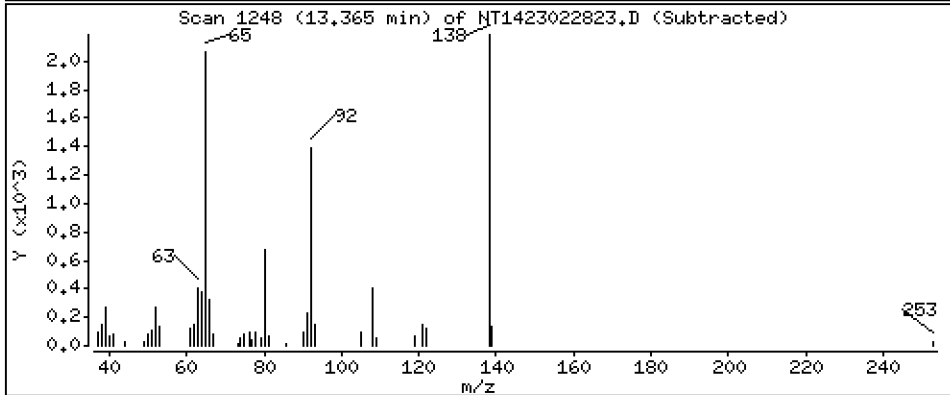
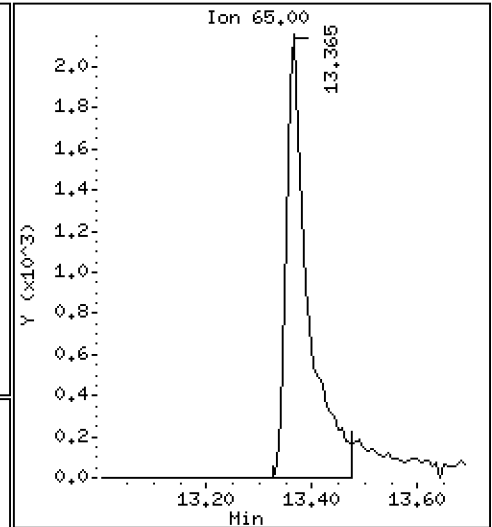
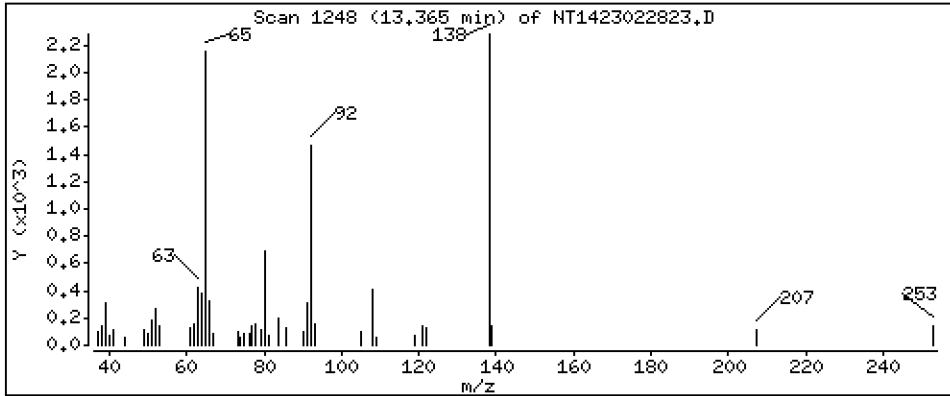
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,3328 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

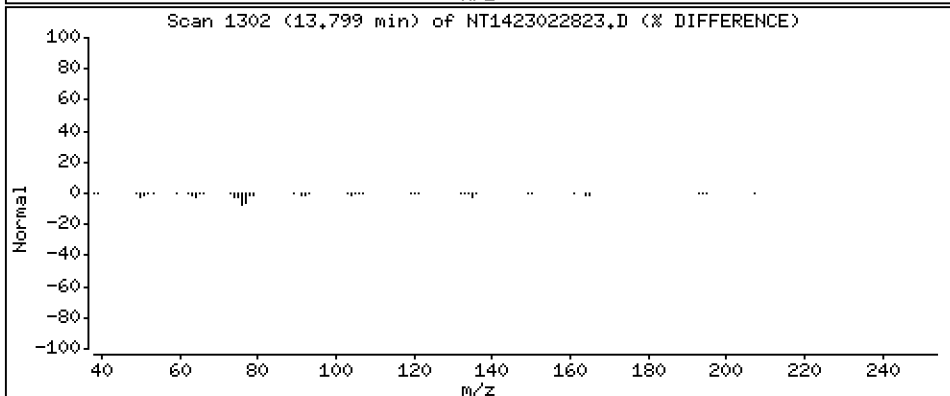
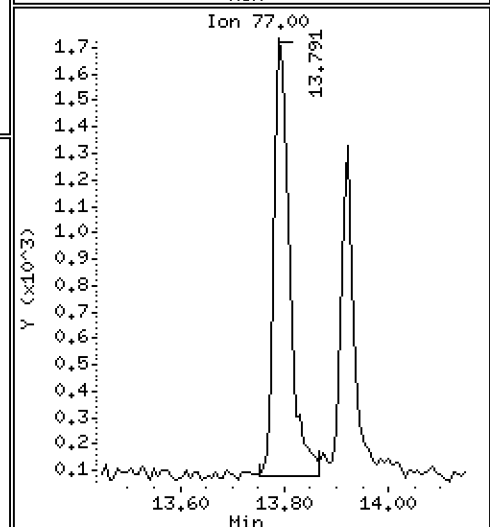
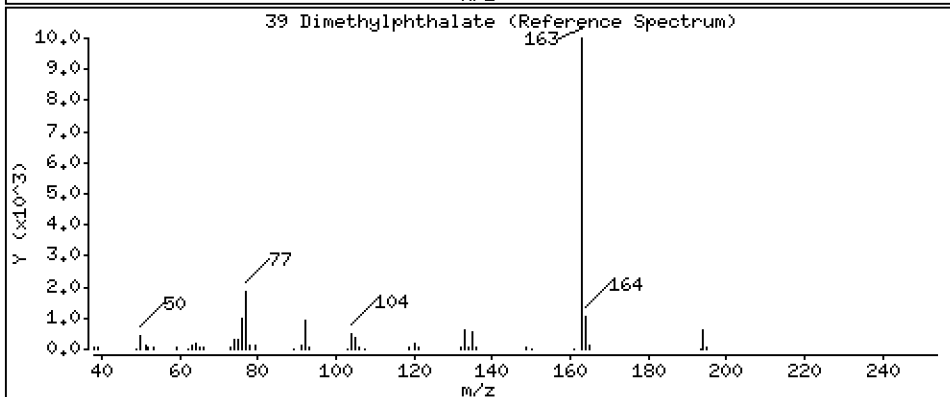
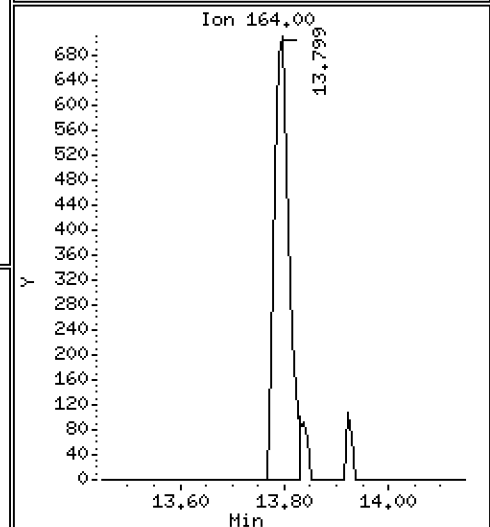
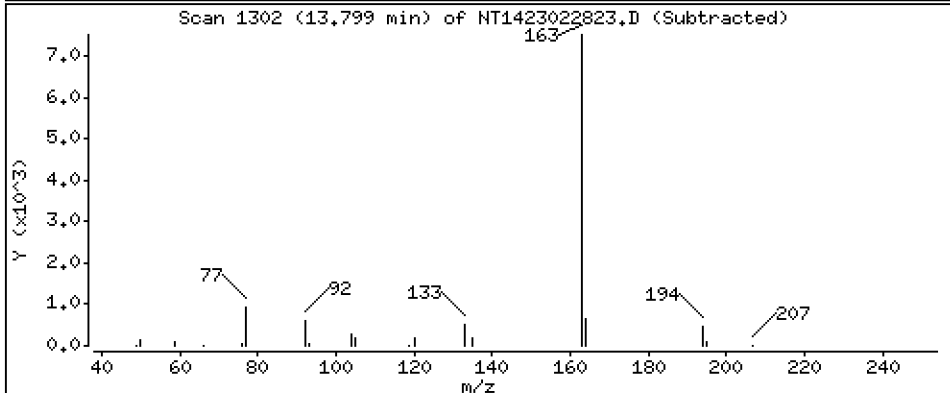
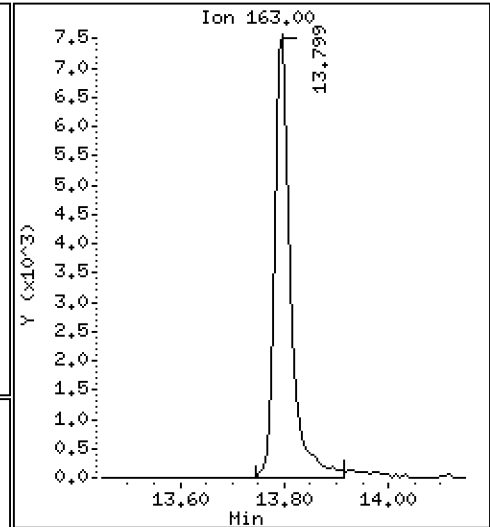
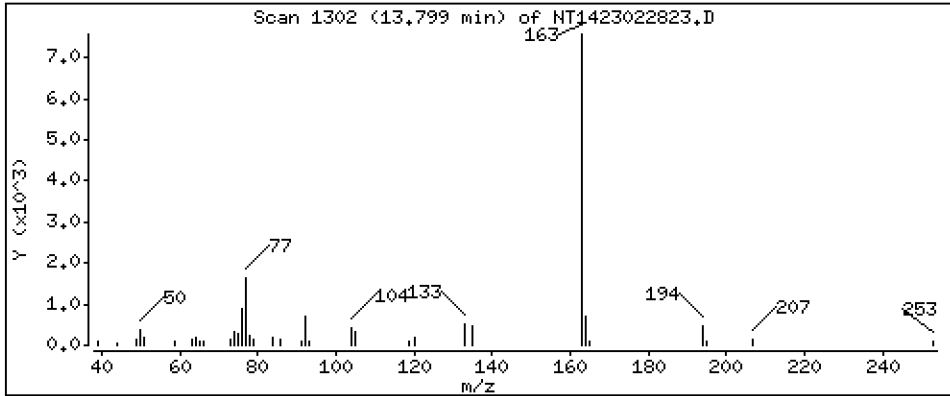
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2127 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

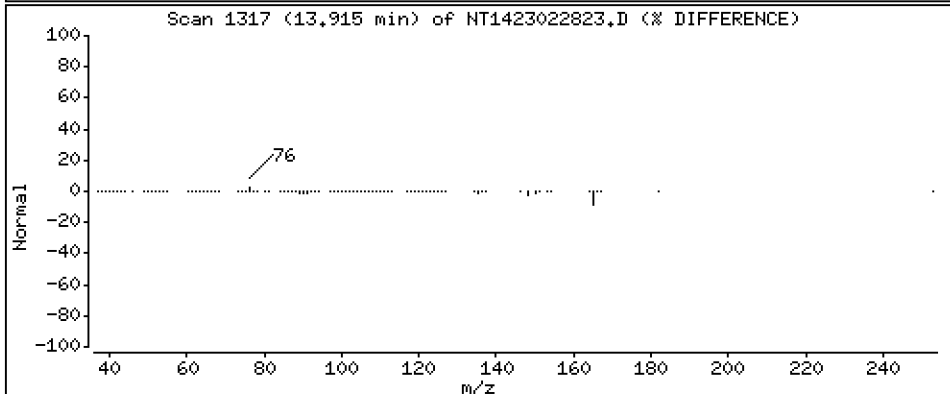
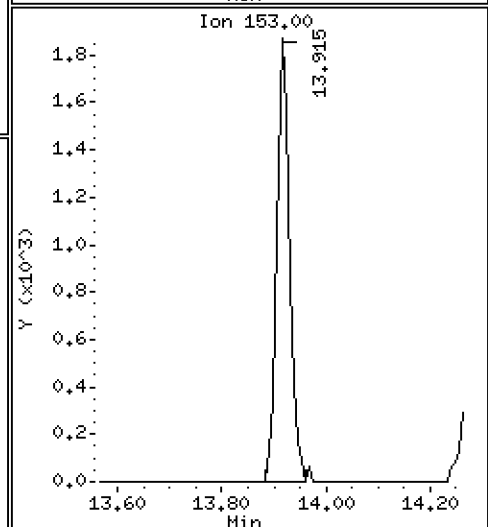
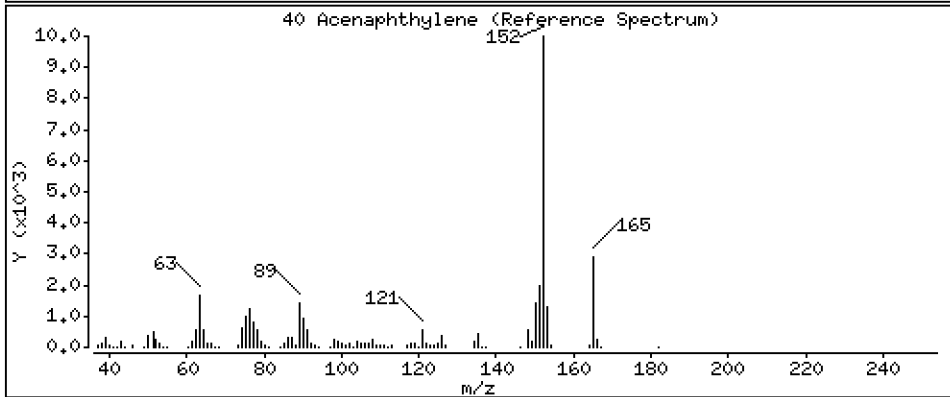
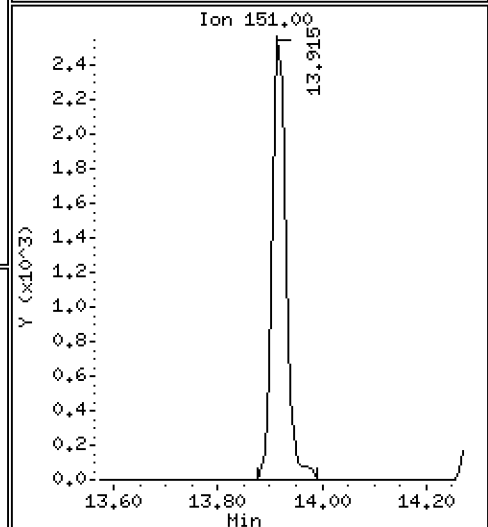
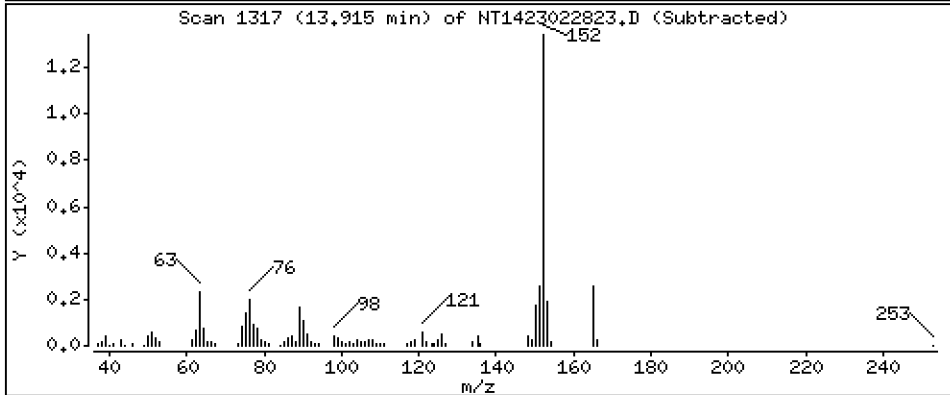
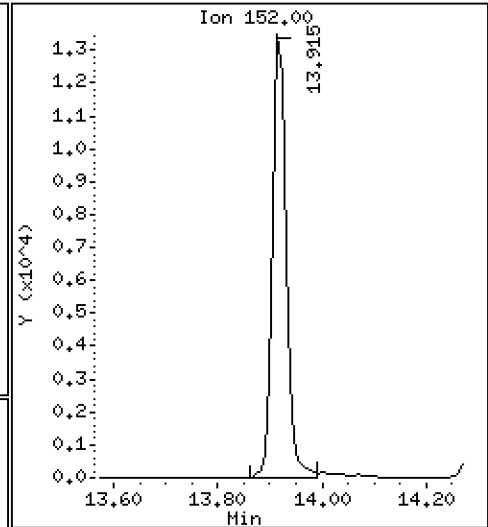
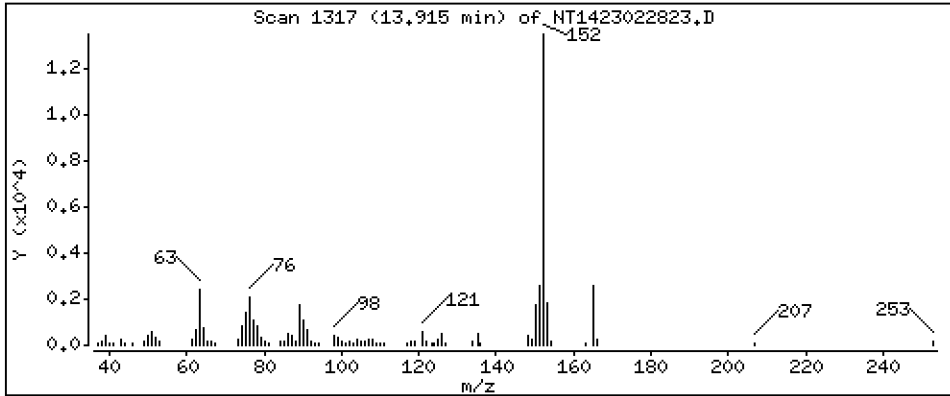
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2211 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

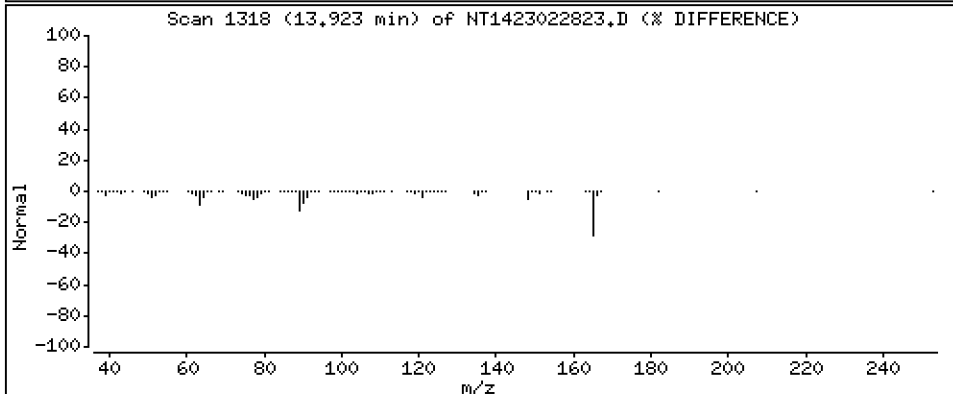
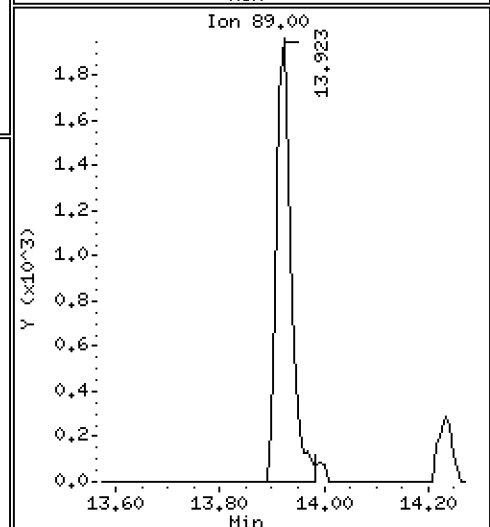
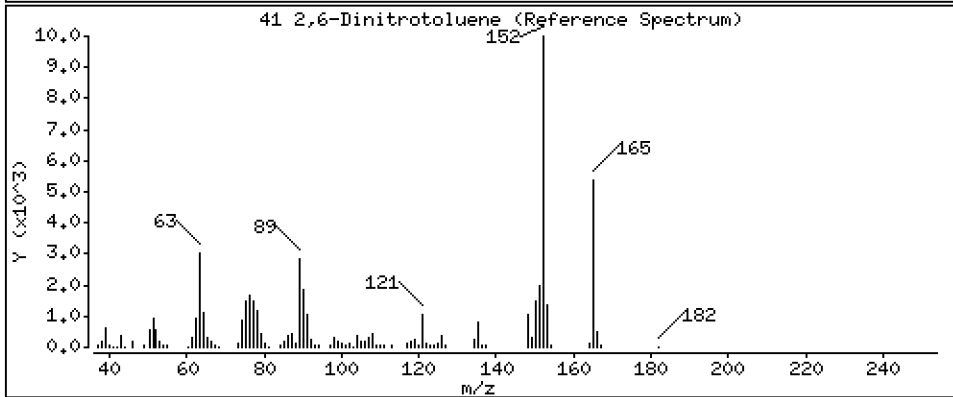
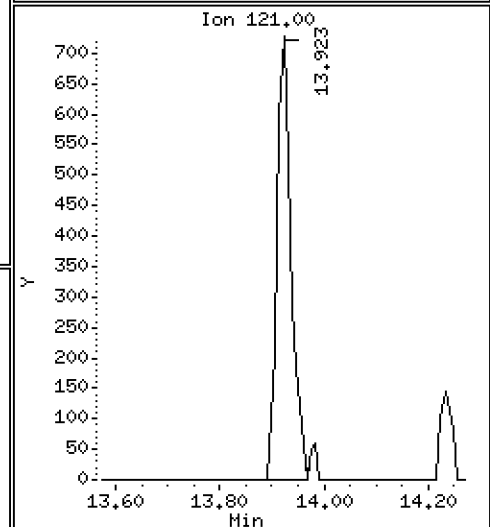
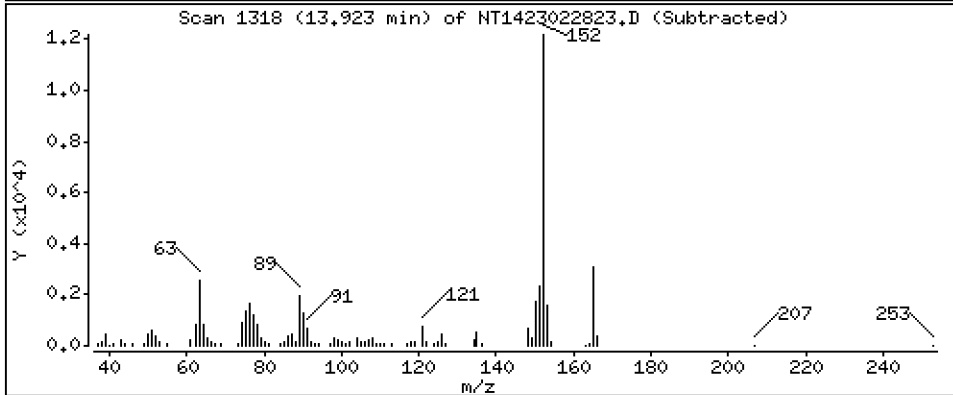
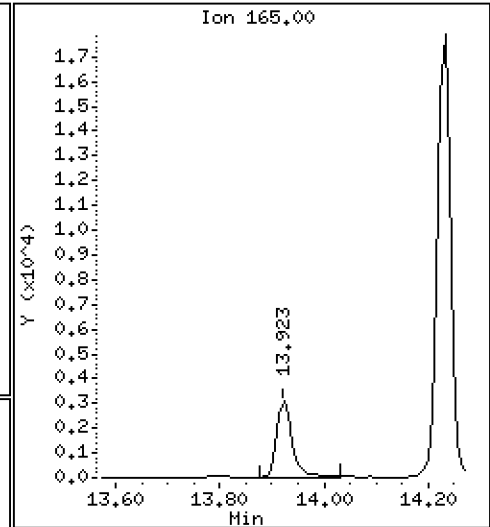
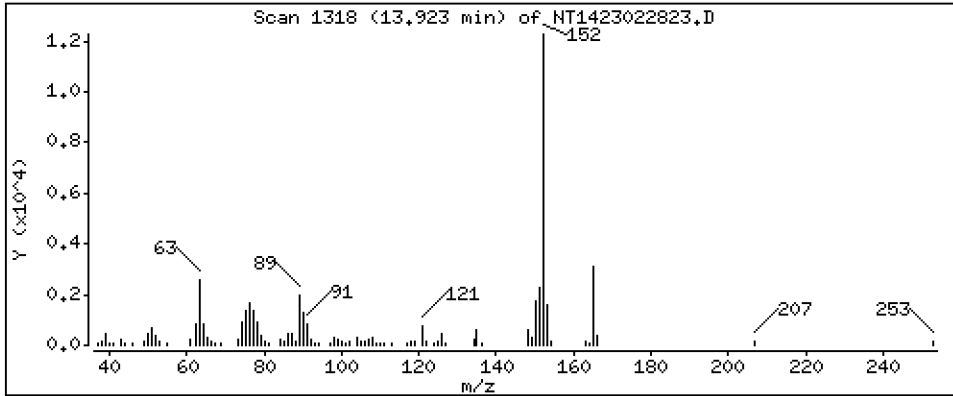
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 0,3722 ug/mL





Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

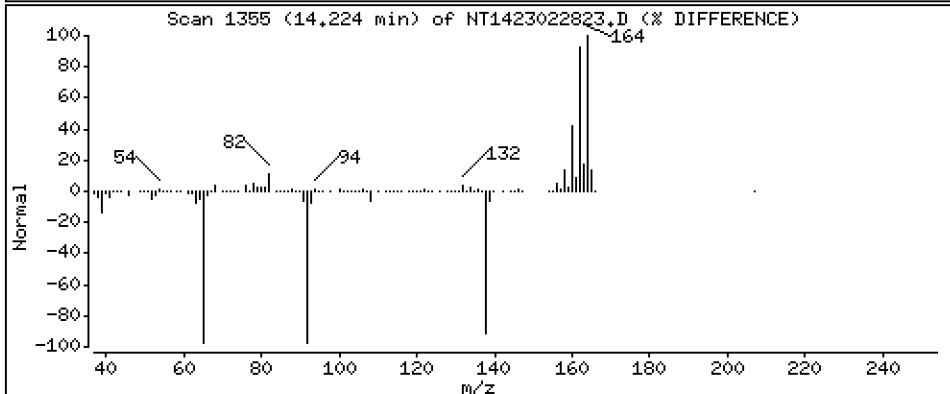
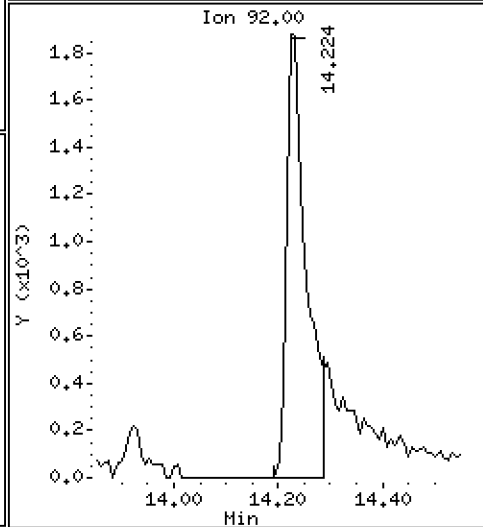
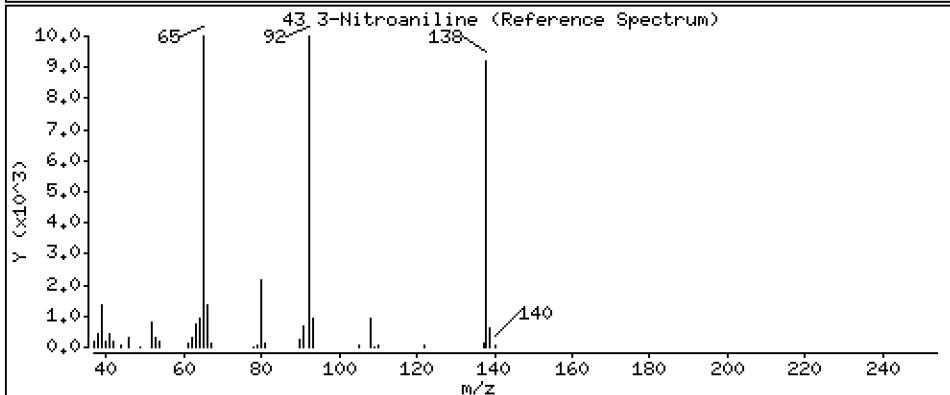
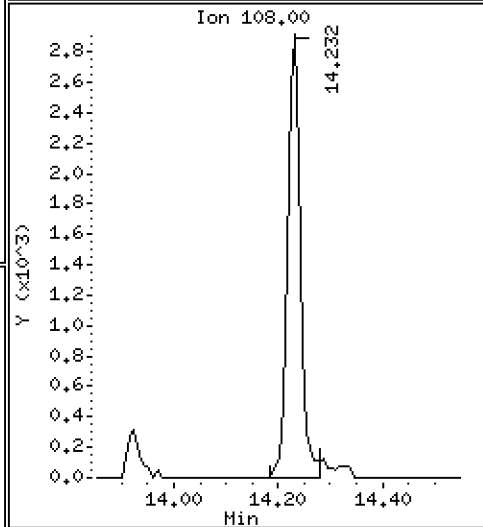
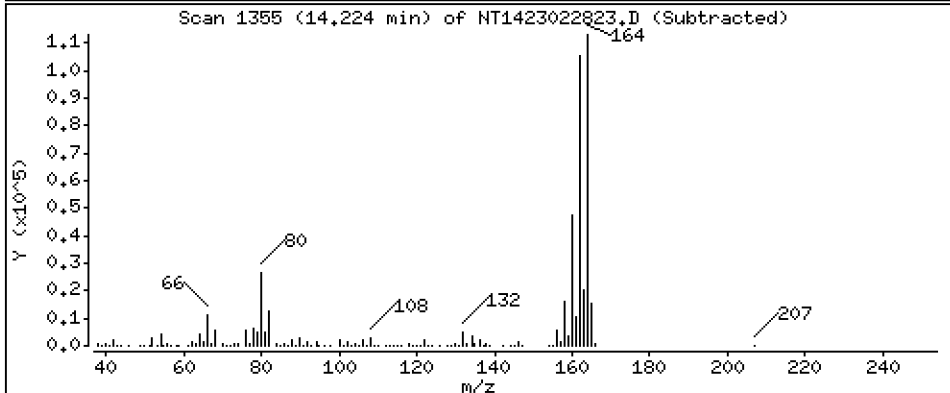
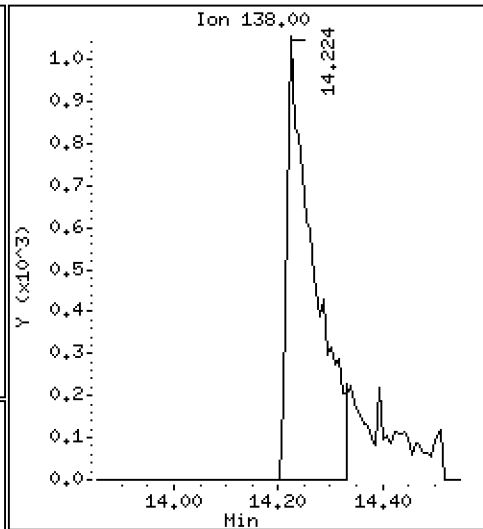
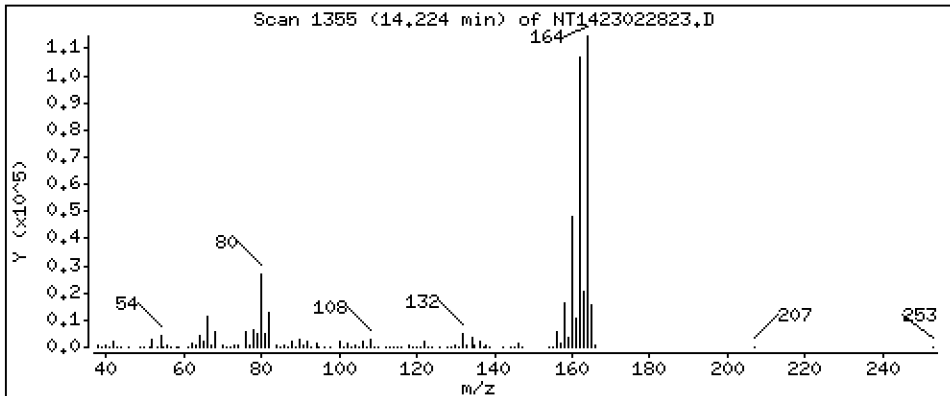
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,2209 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

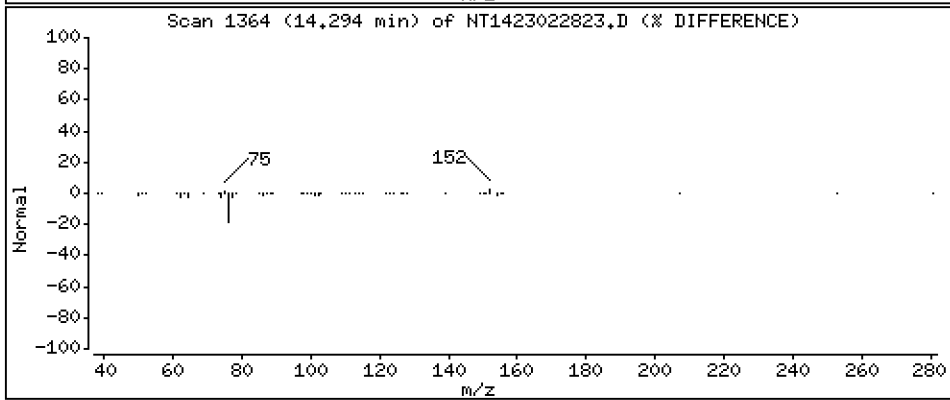
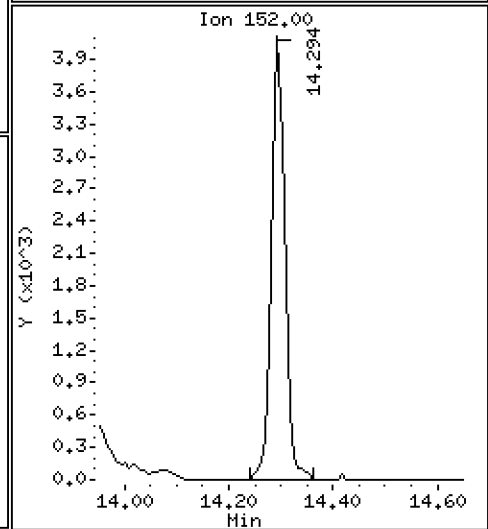
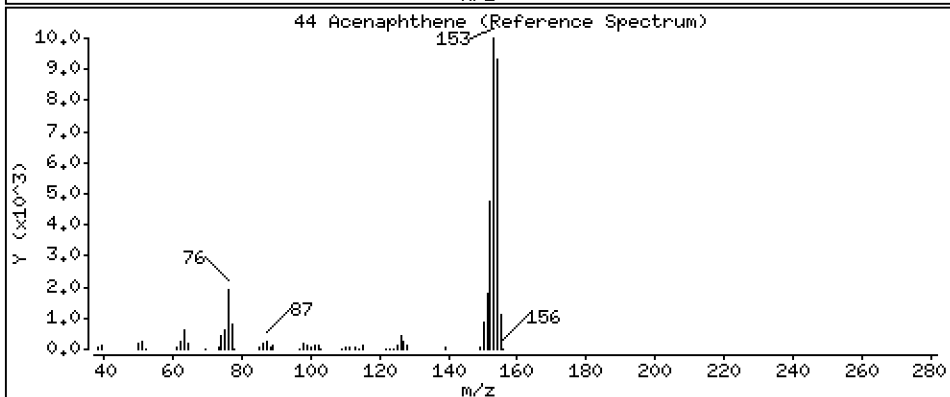
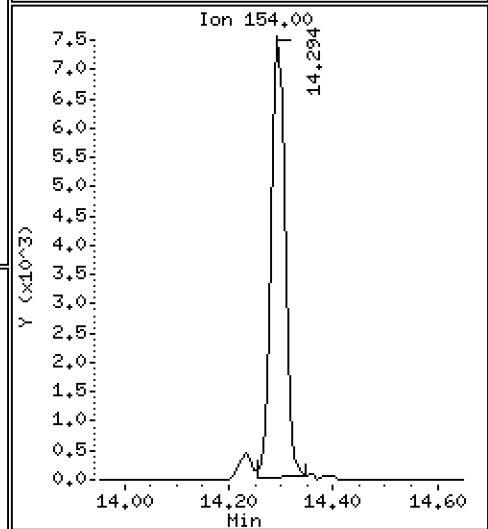
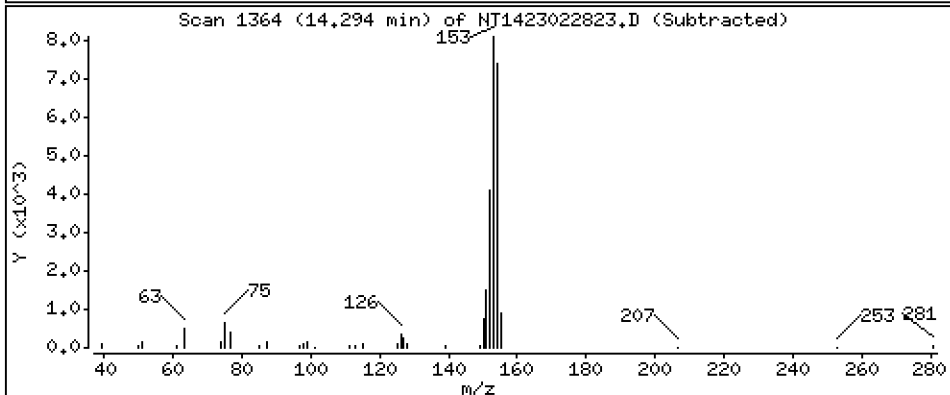
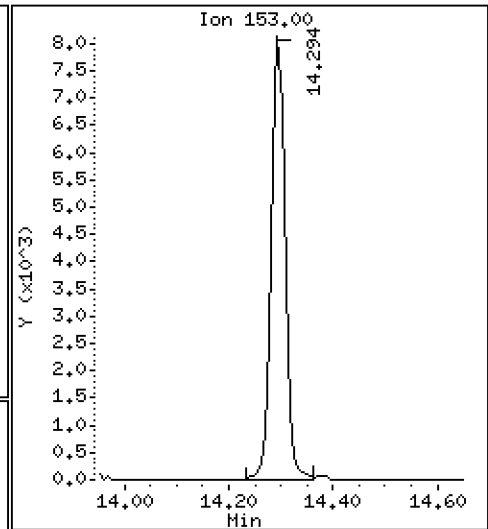
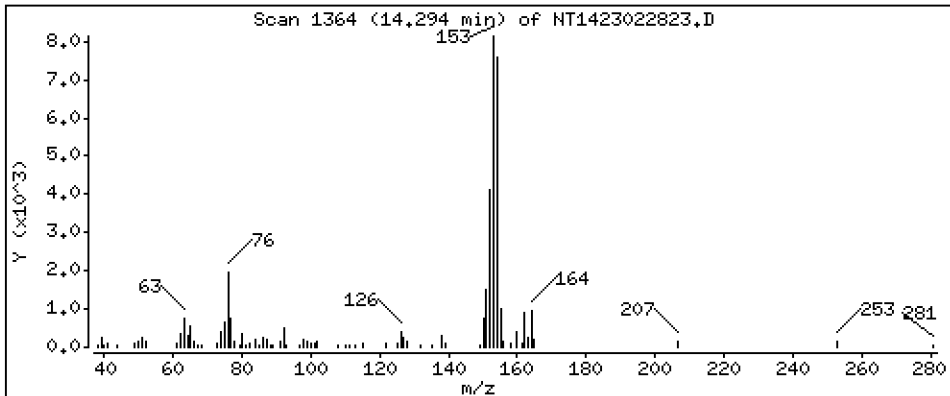
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,2101 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

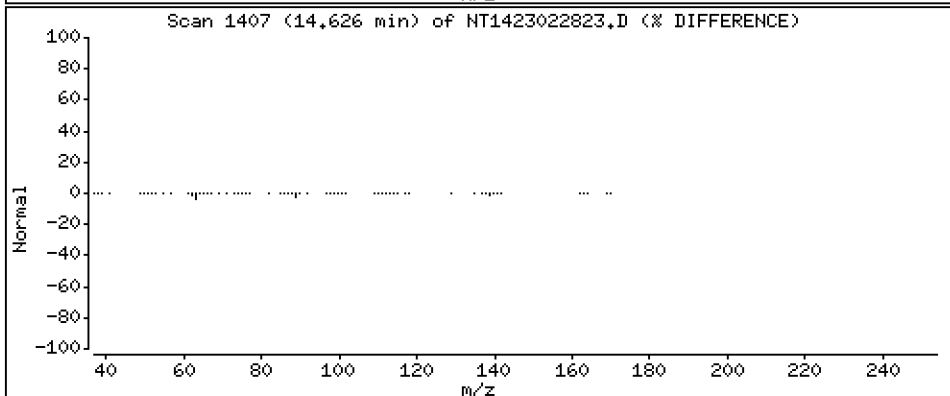
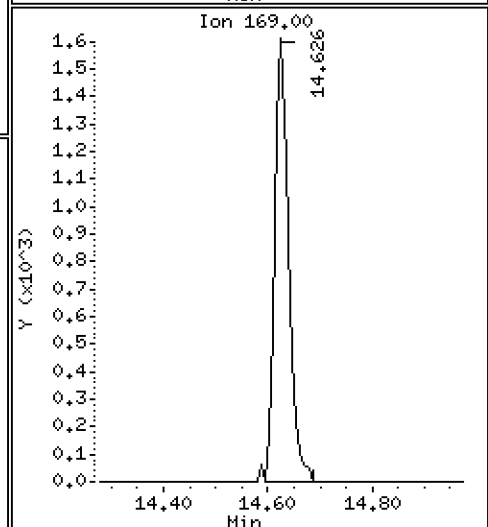
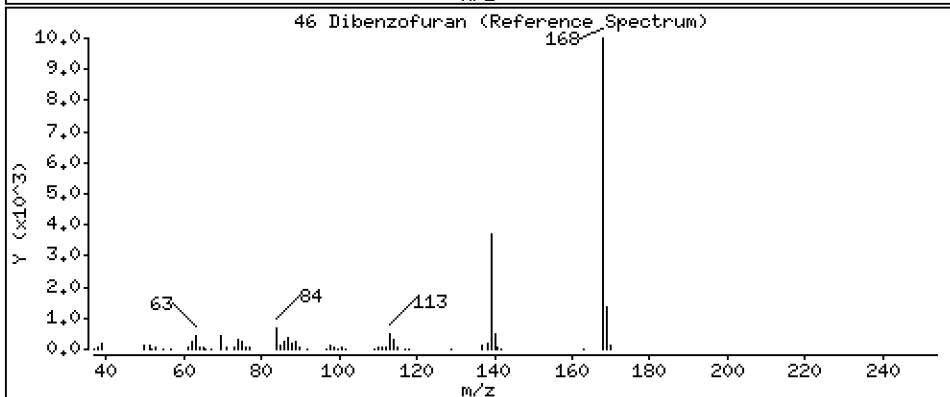
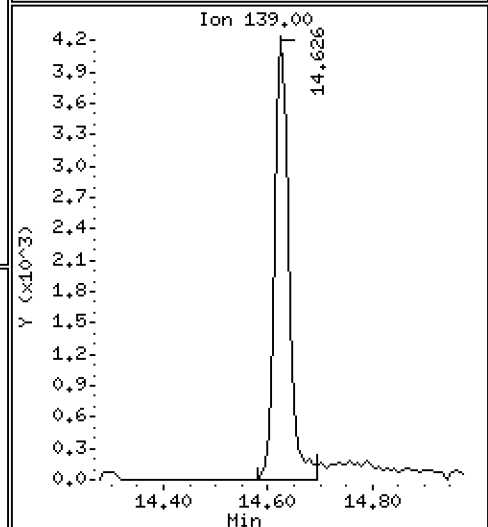
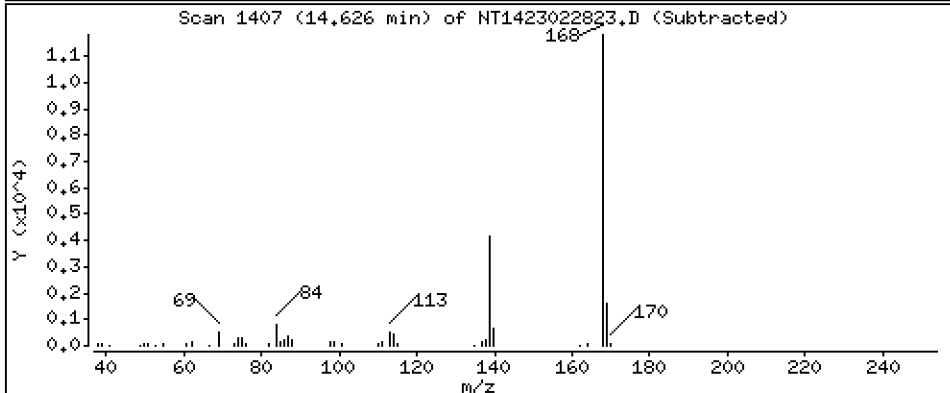
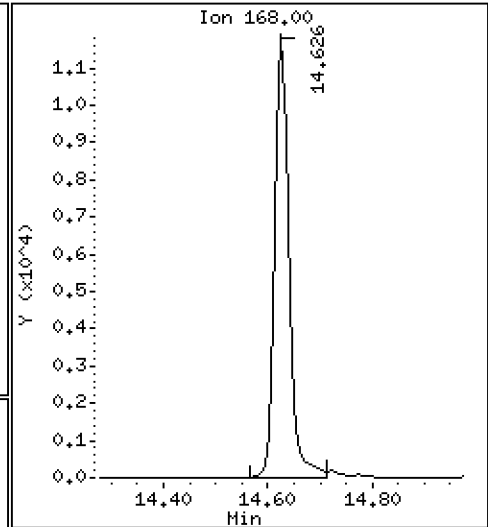
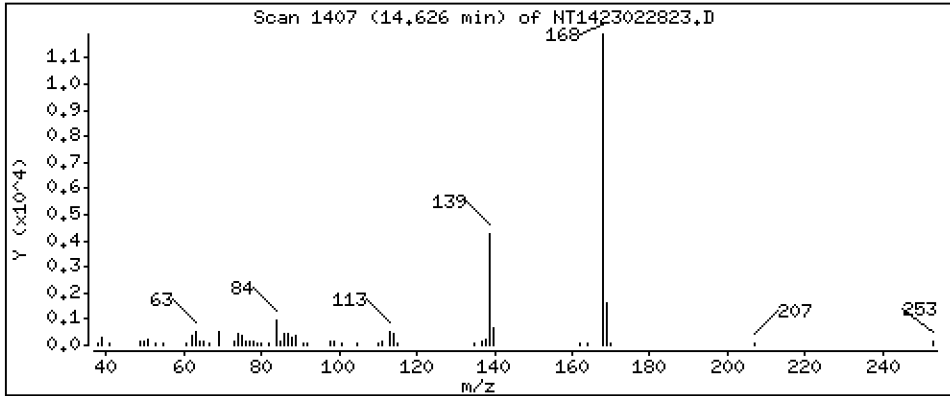
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,1984 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

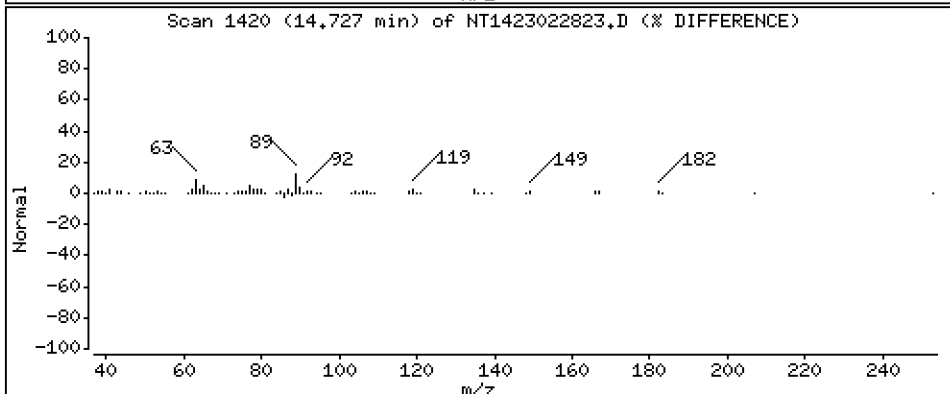
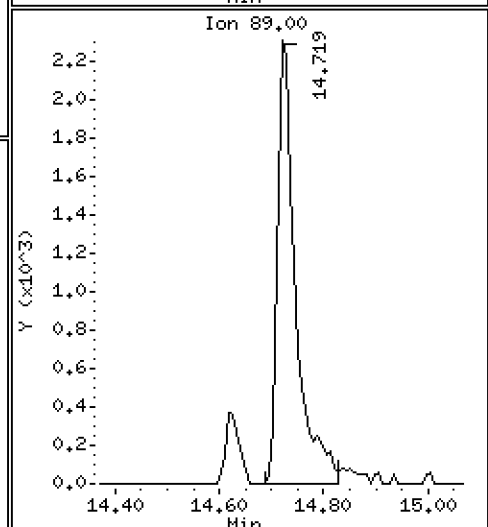
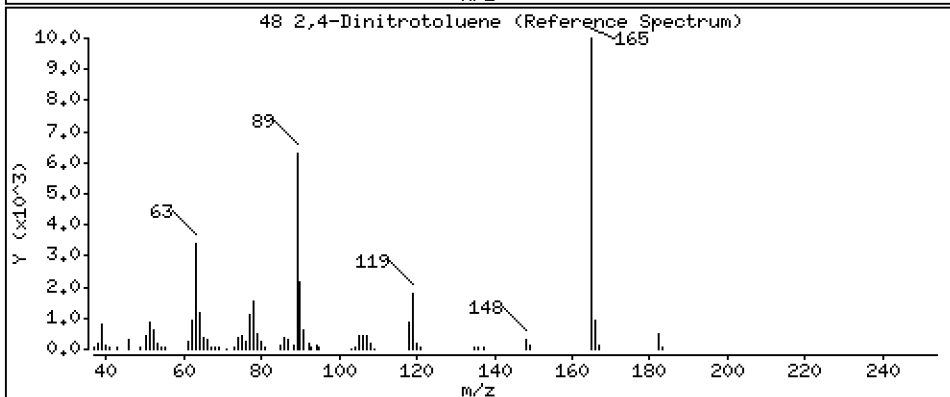
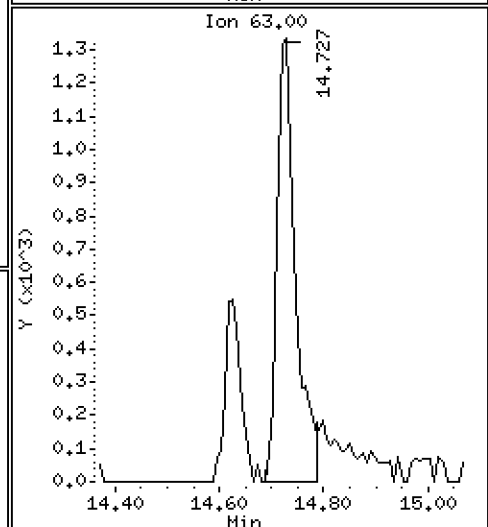
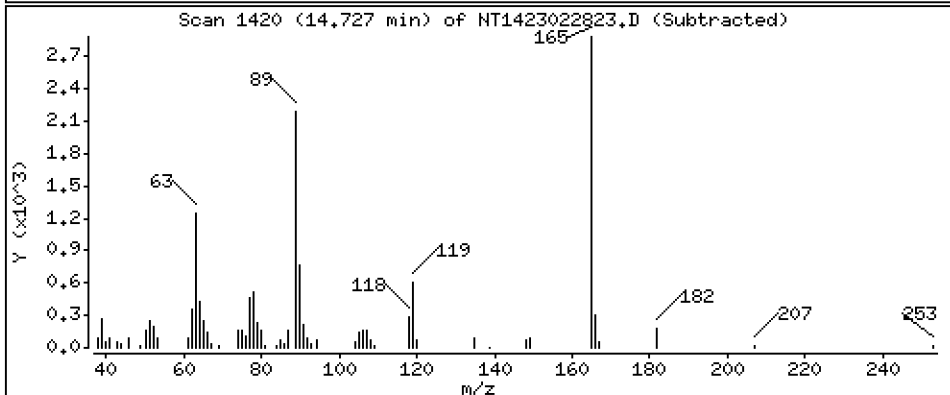
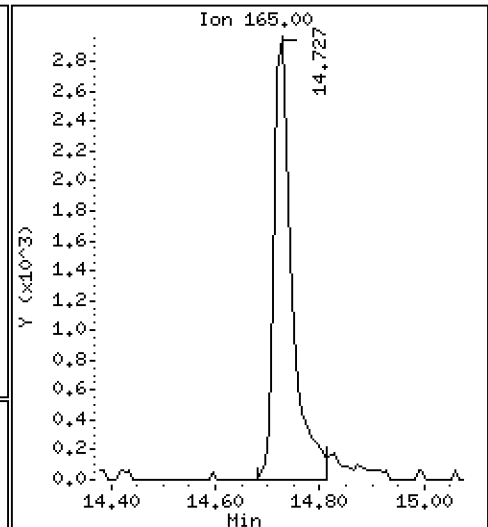
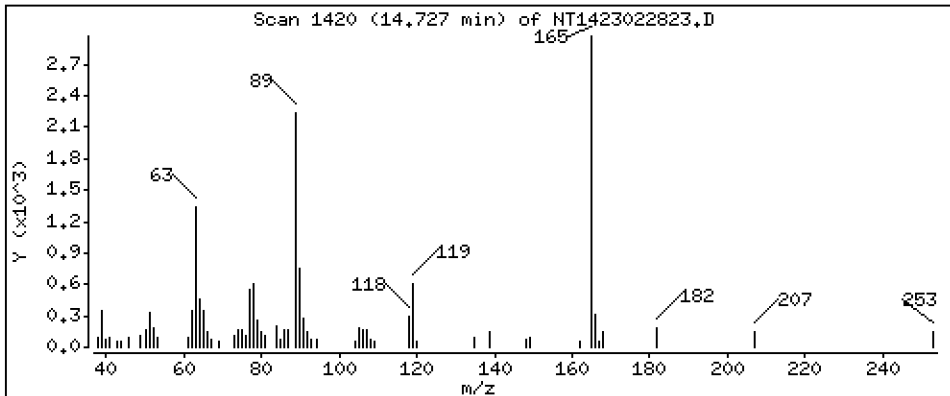
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.2795 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

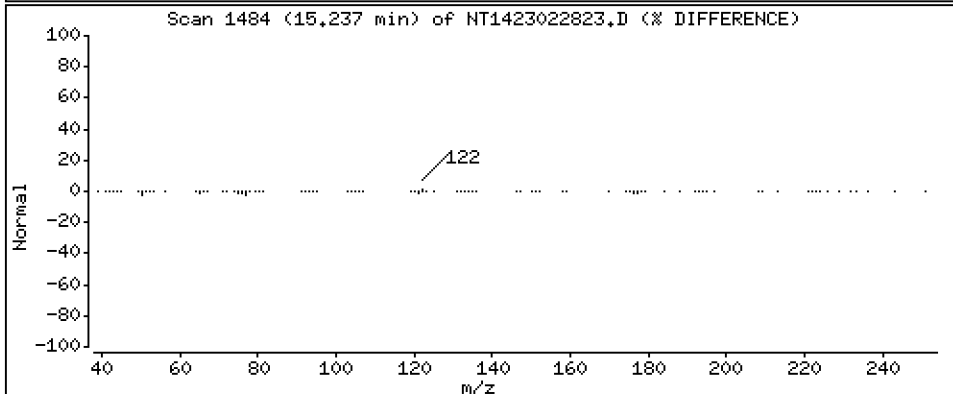
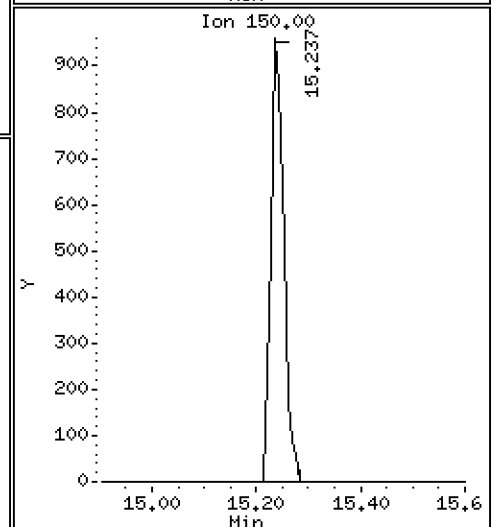
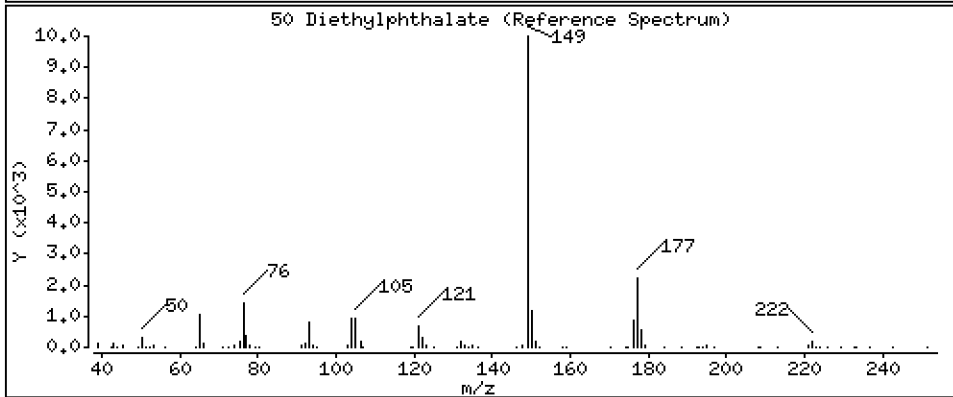
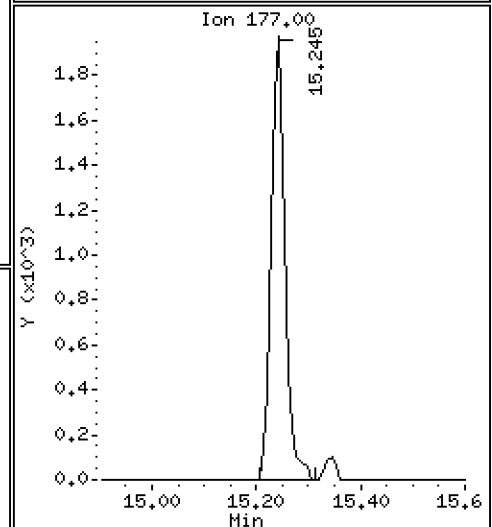
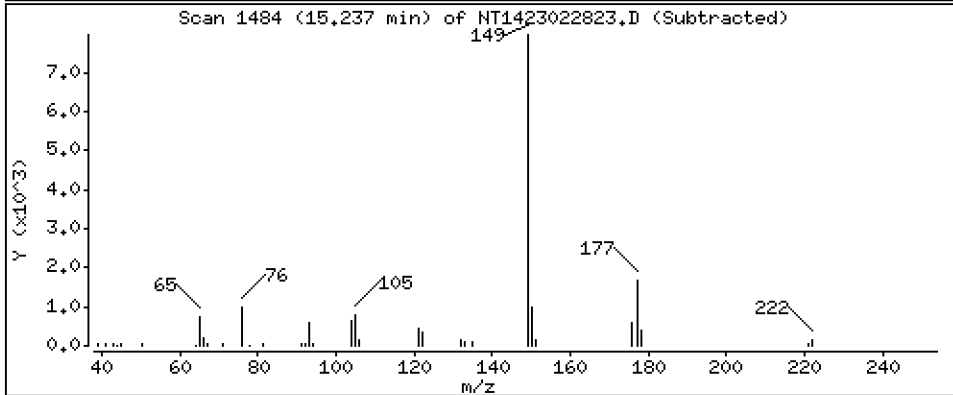
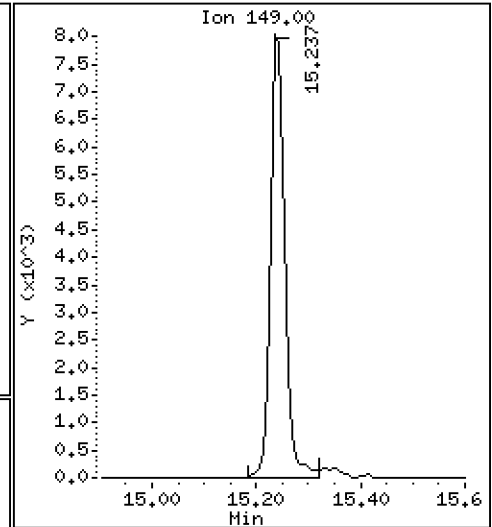
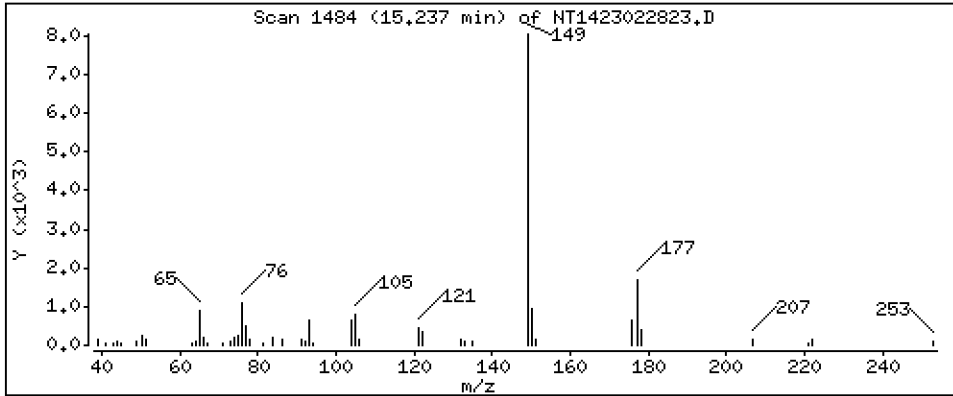
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2149 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

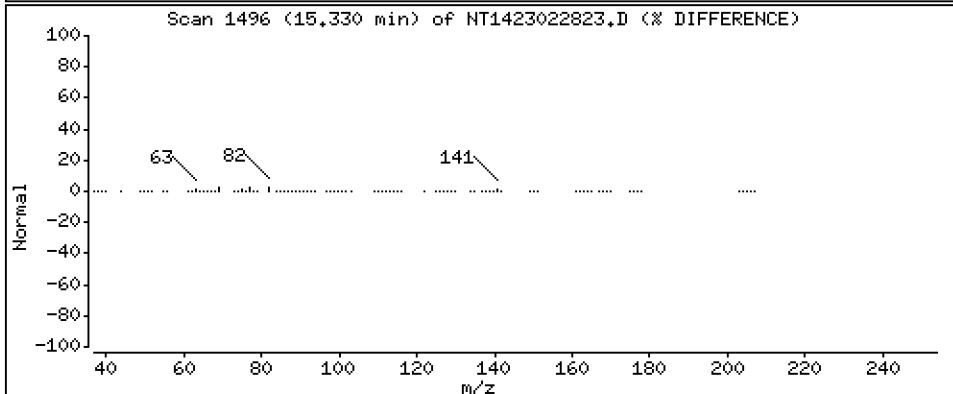
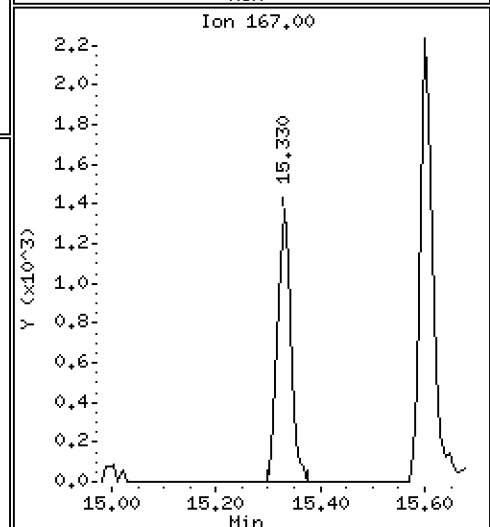
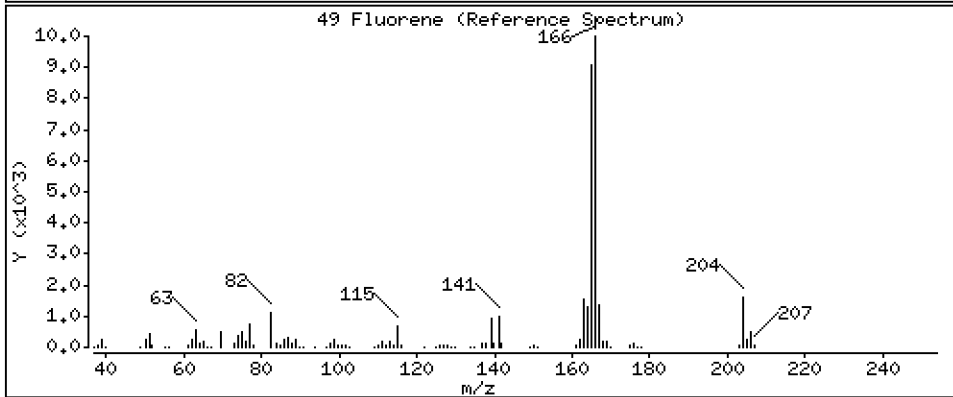
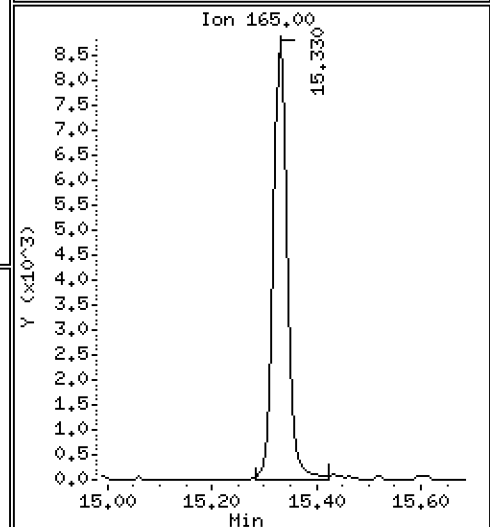
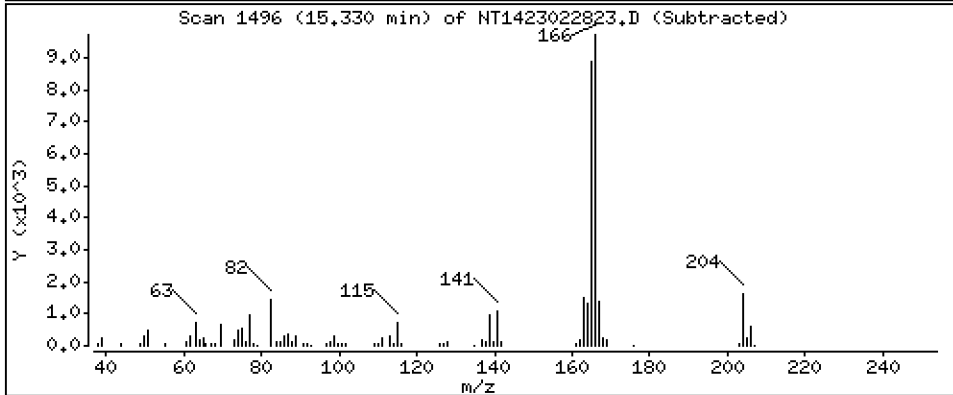
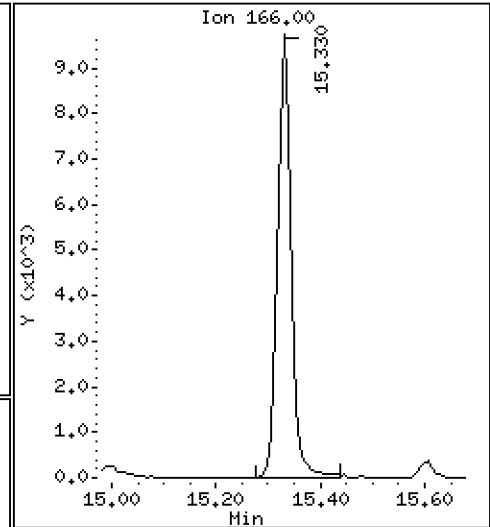
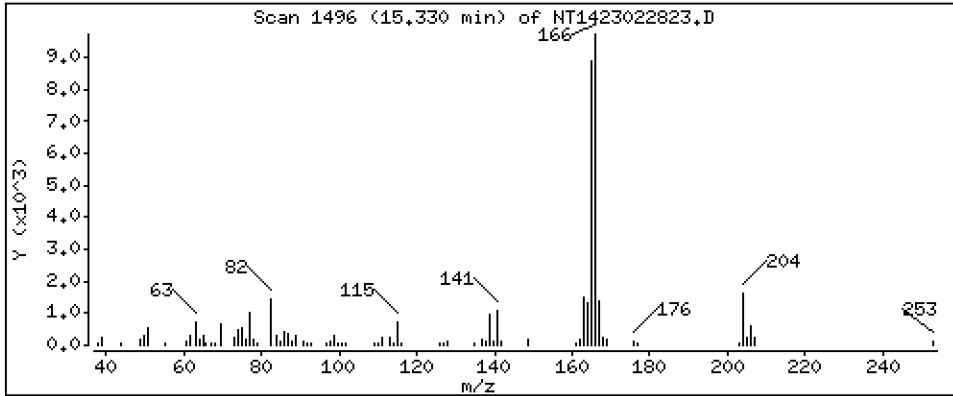
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,2100 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

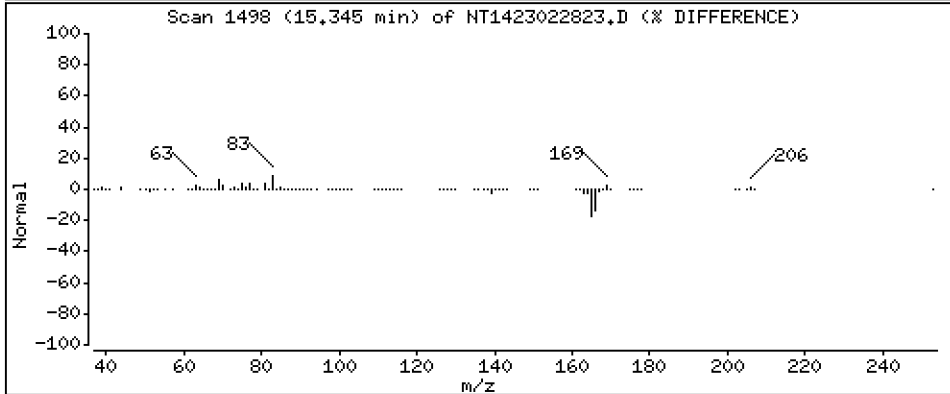
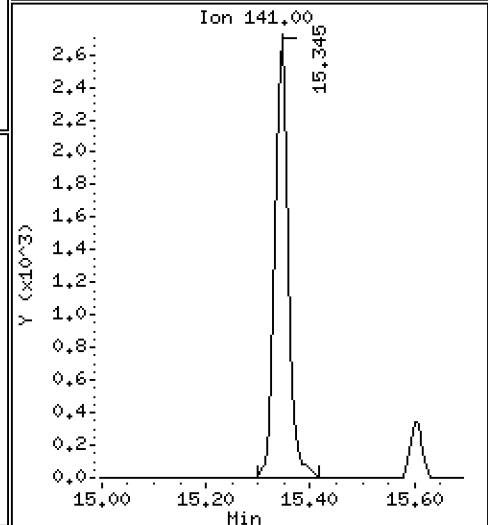
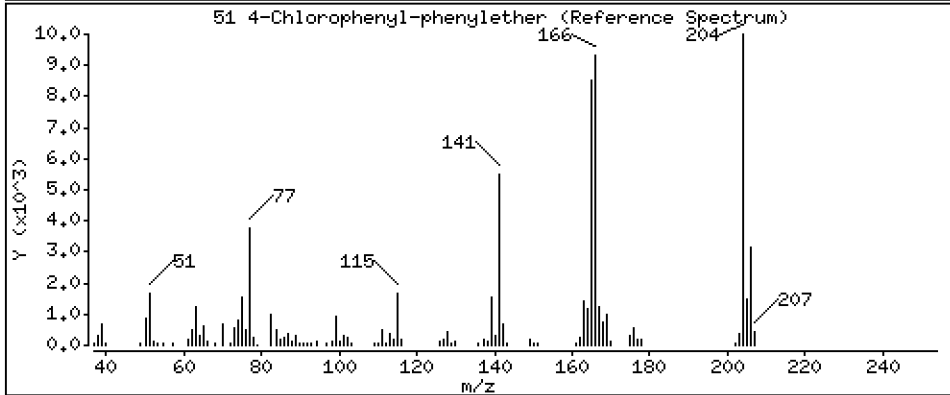
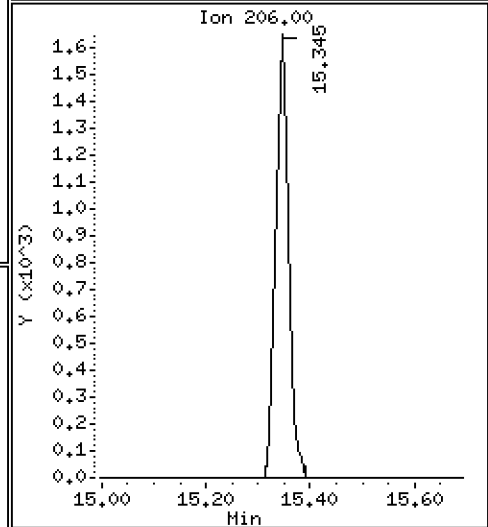
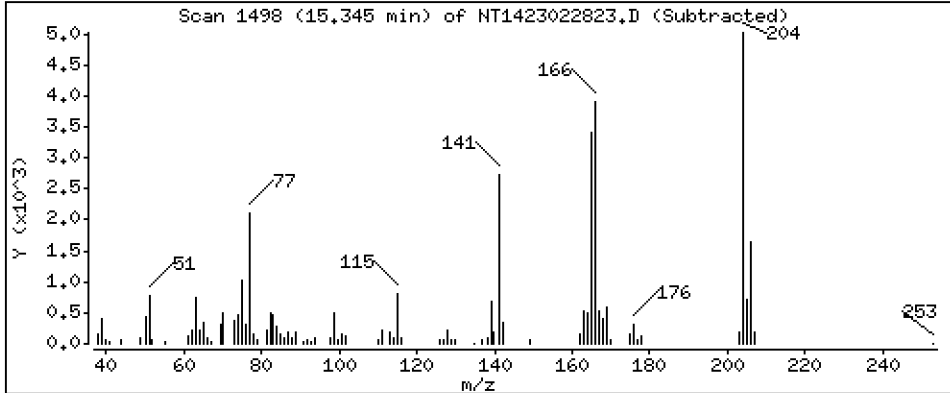
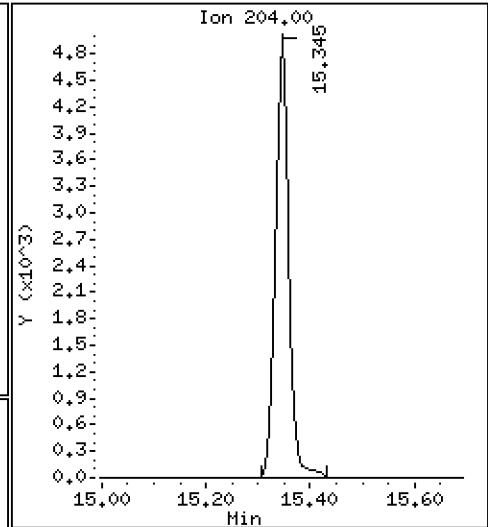
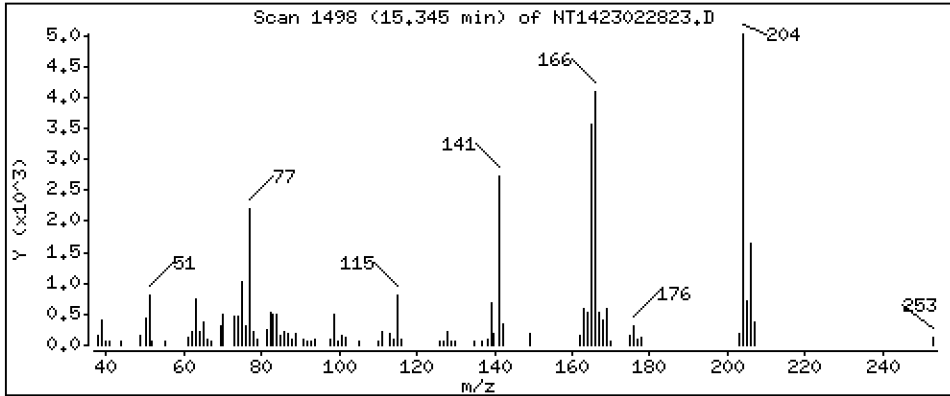
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,2012 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

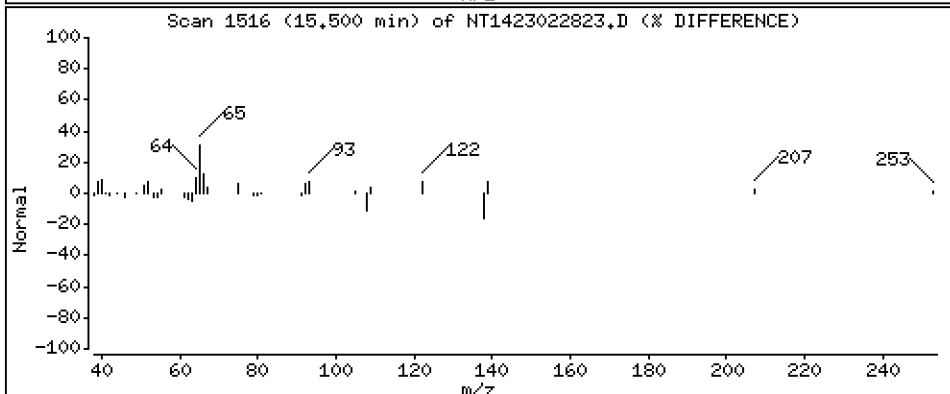
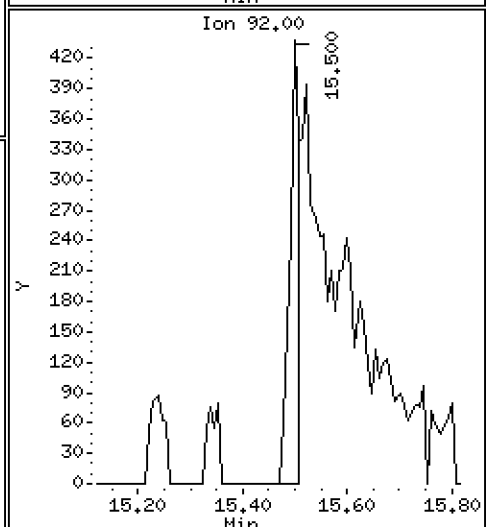
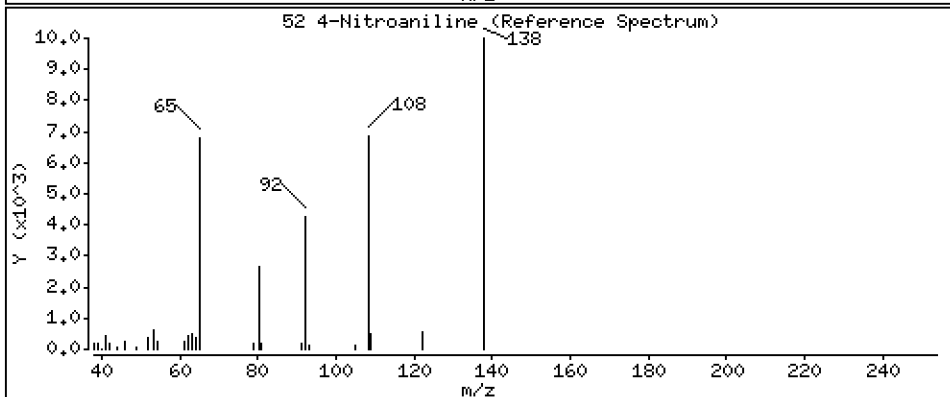
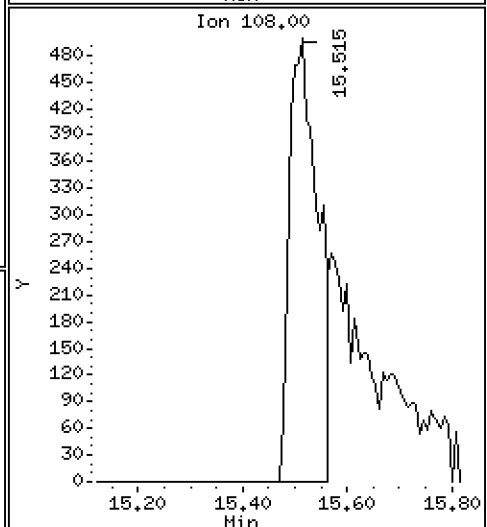
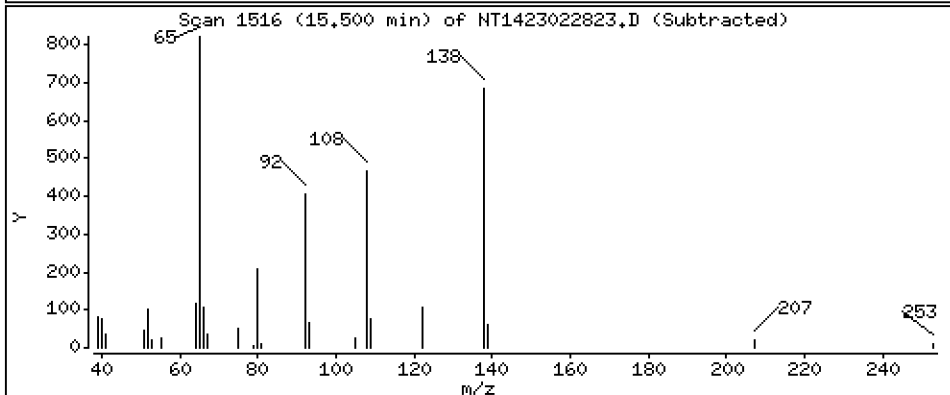
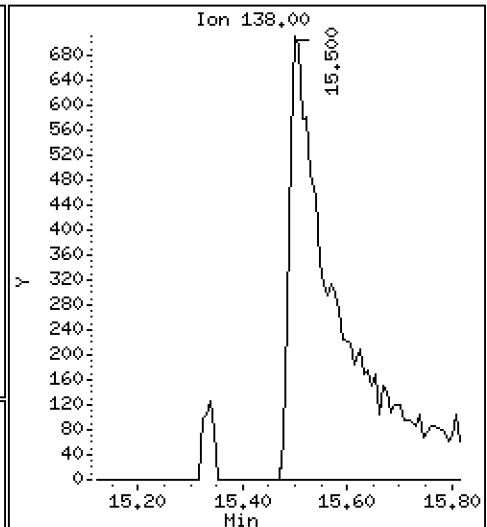
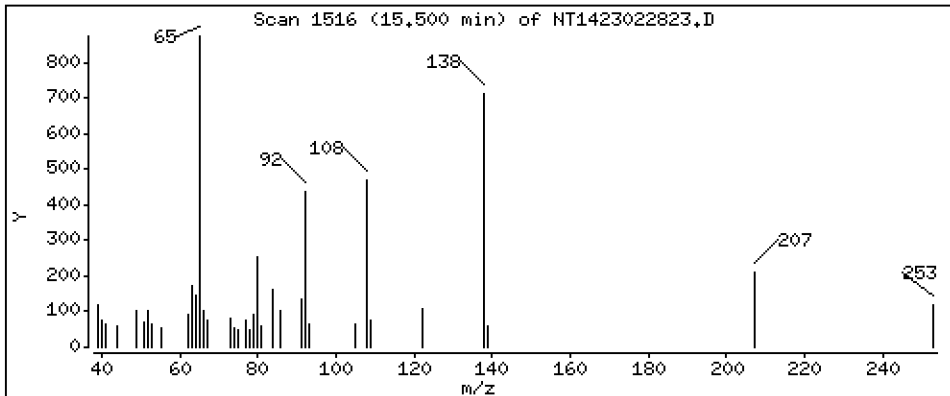
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,2714 ug/mL





Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

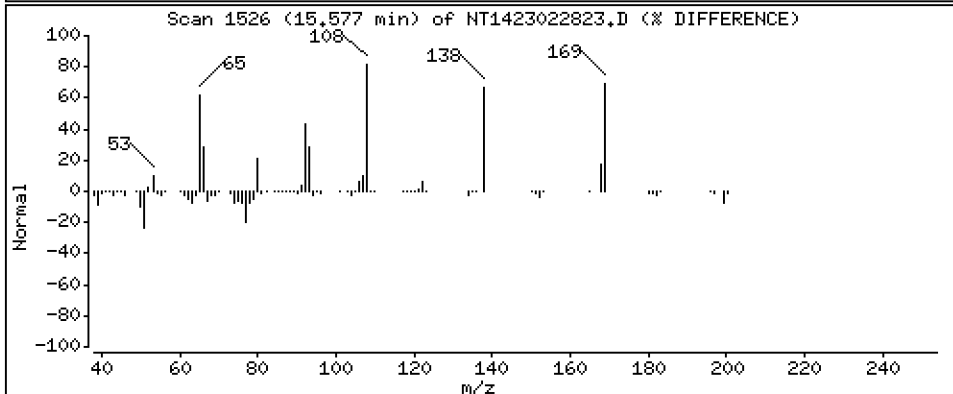
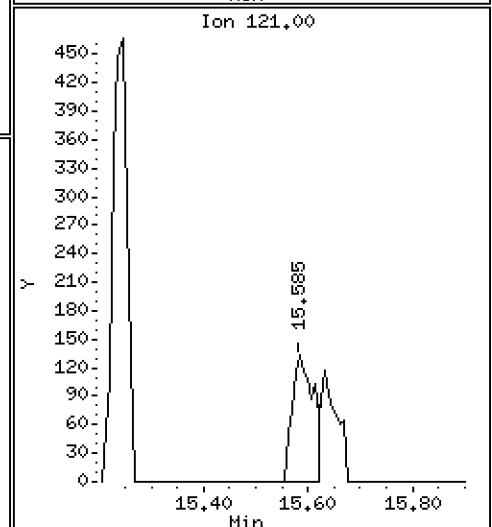
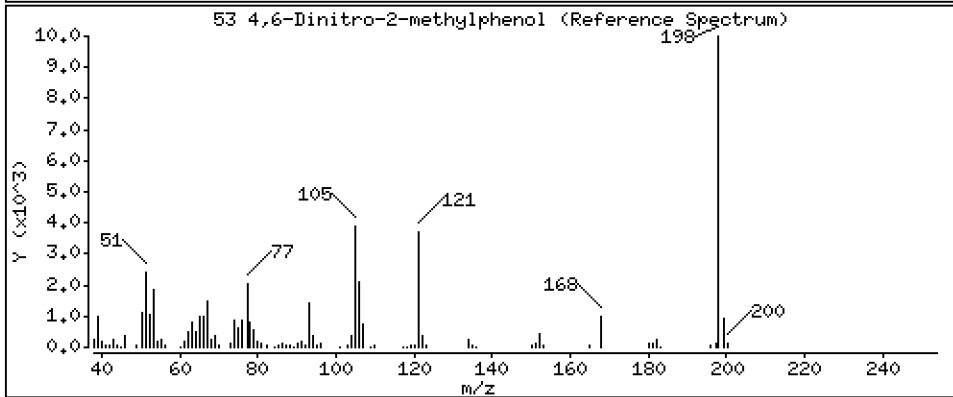
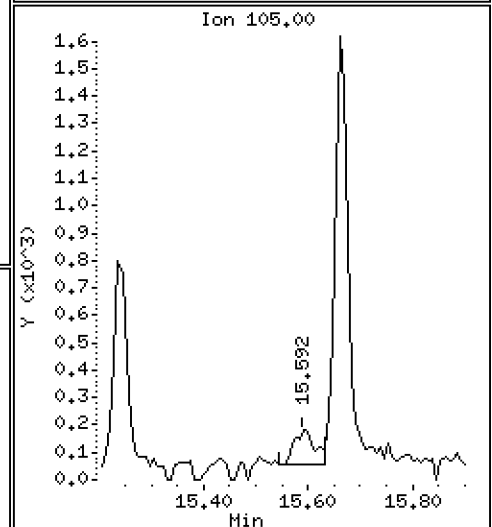
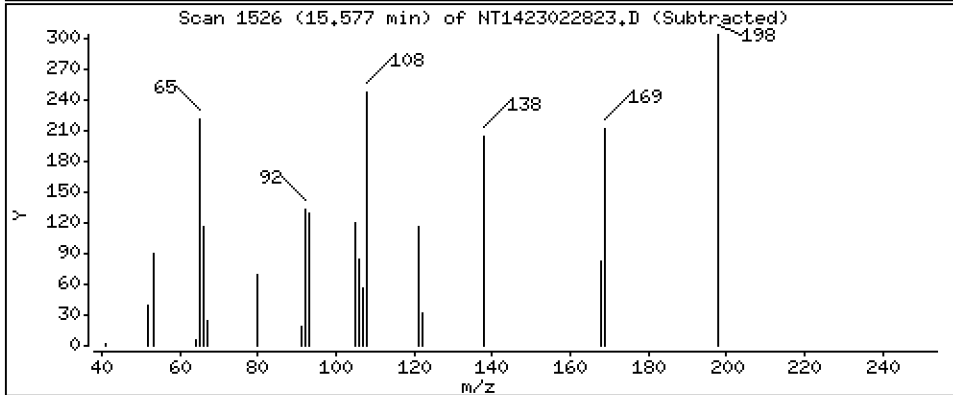
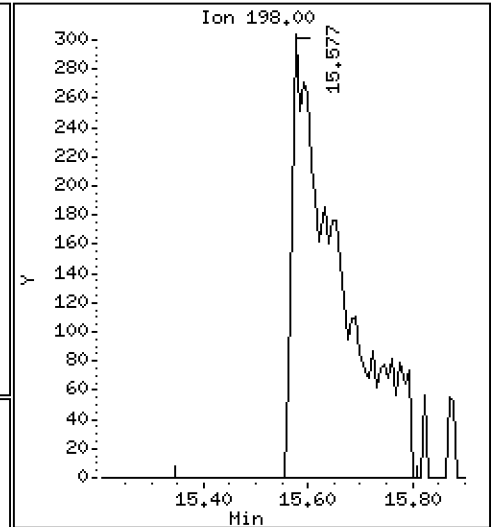
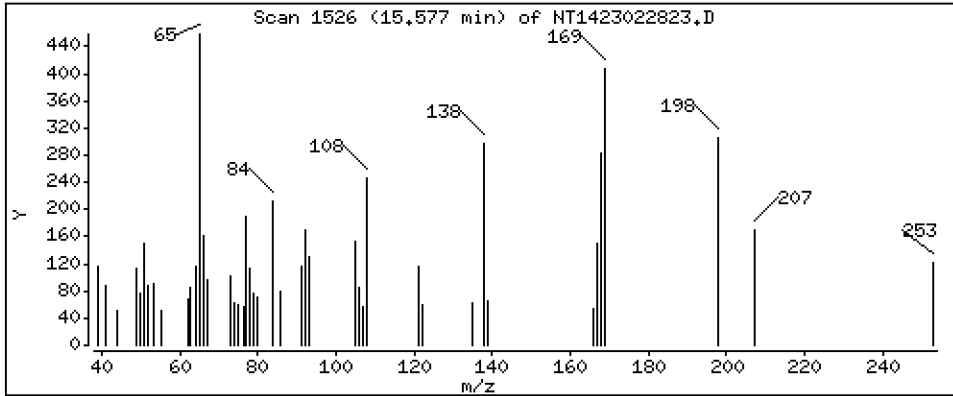
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,1376 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

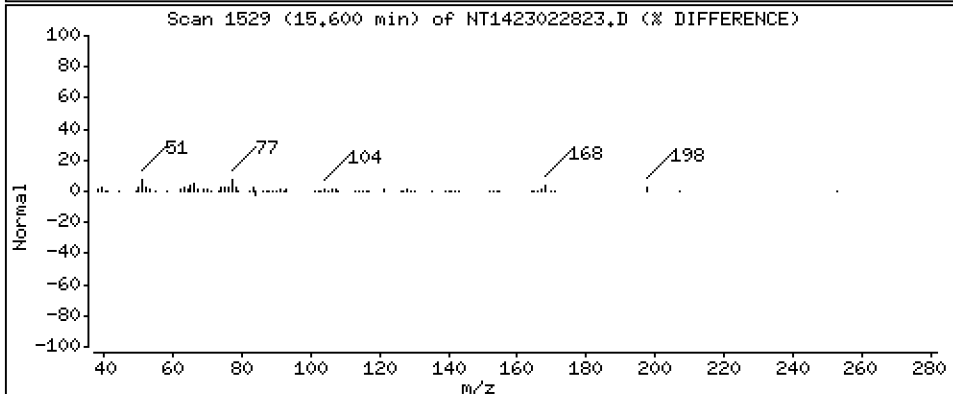
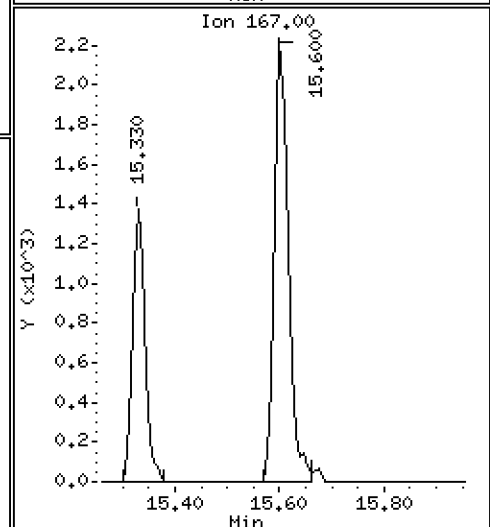
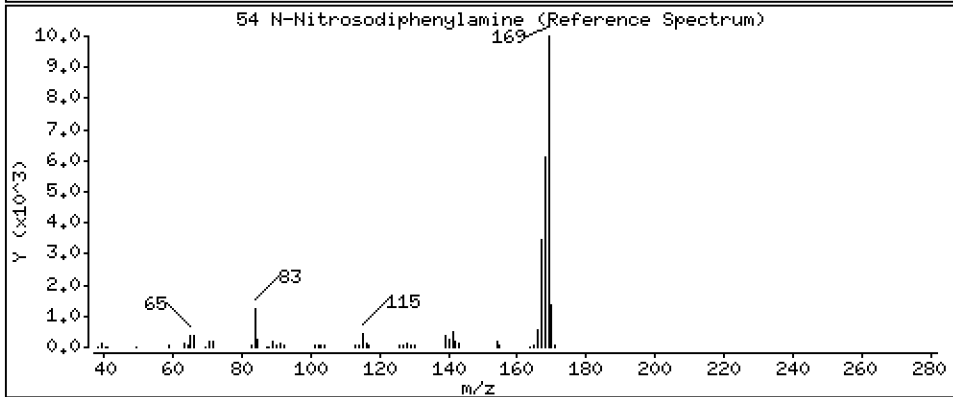
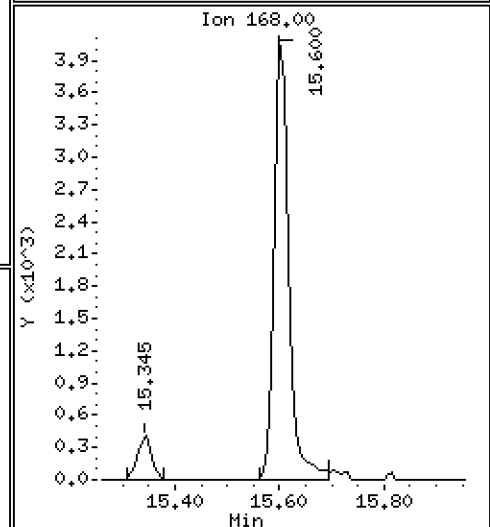
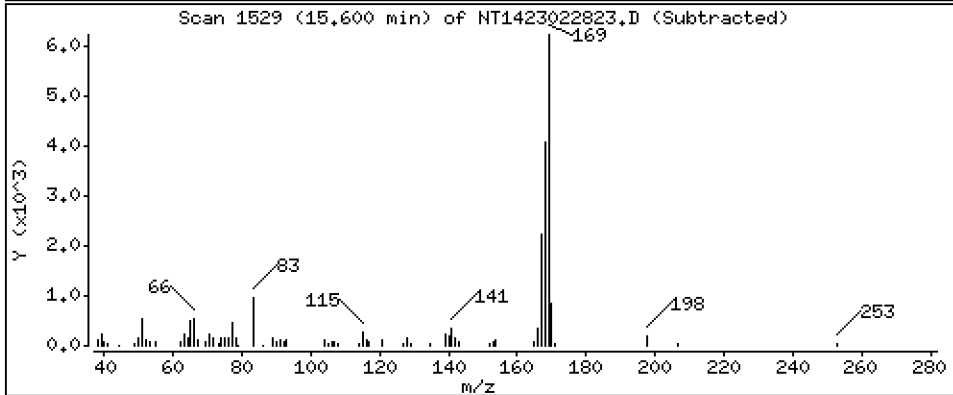
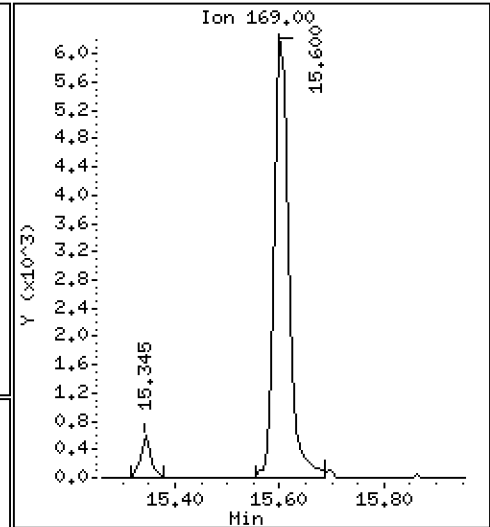
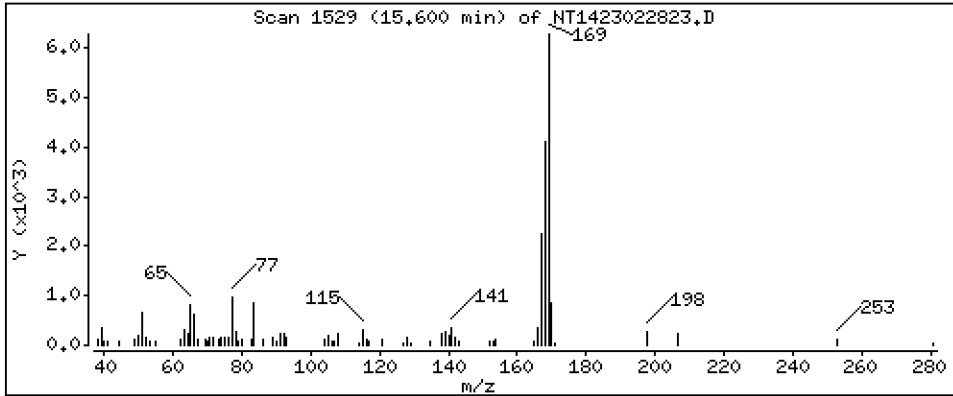
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,2123 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

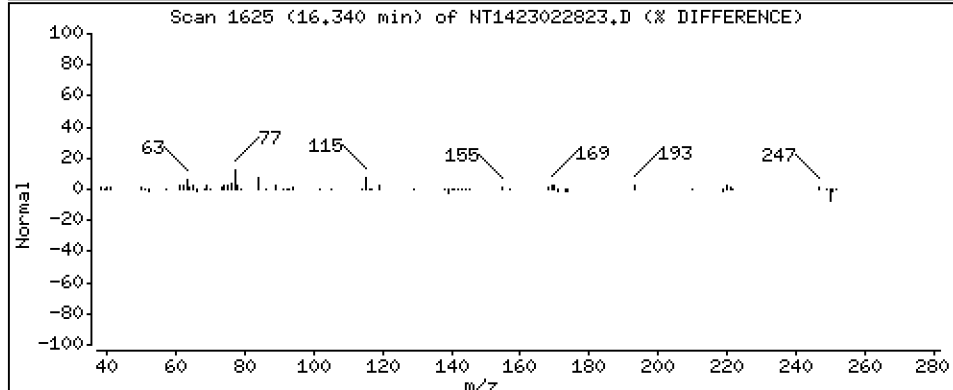
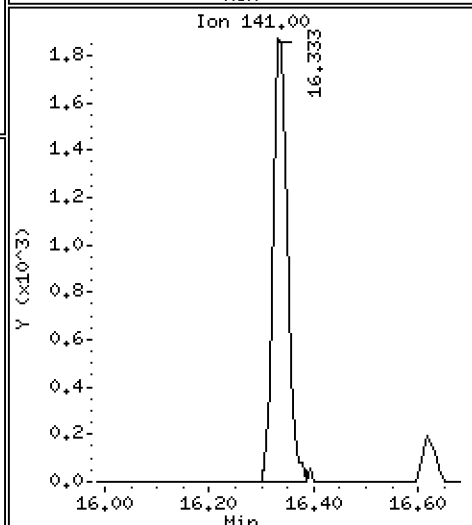
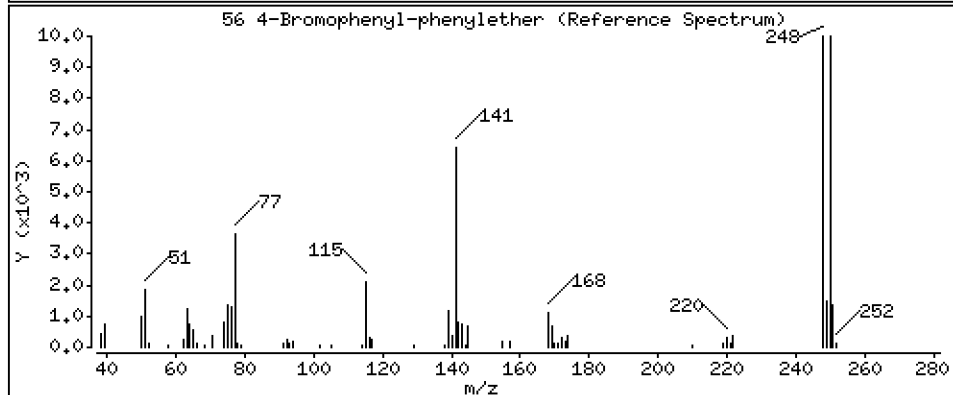
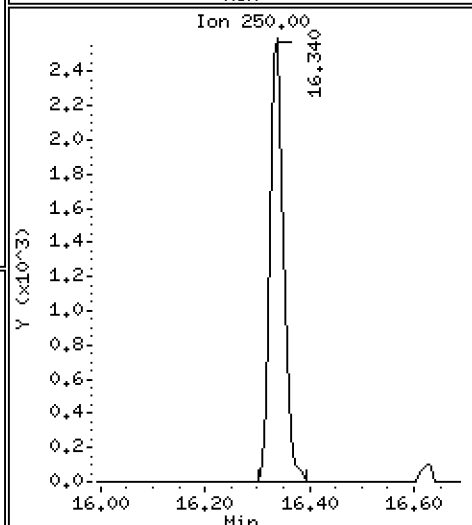
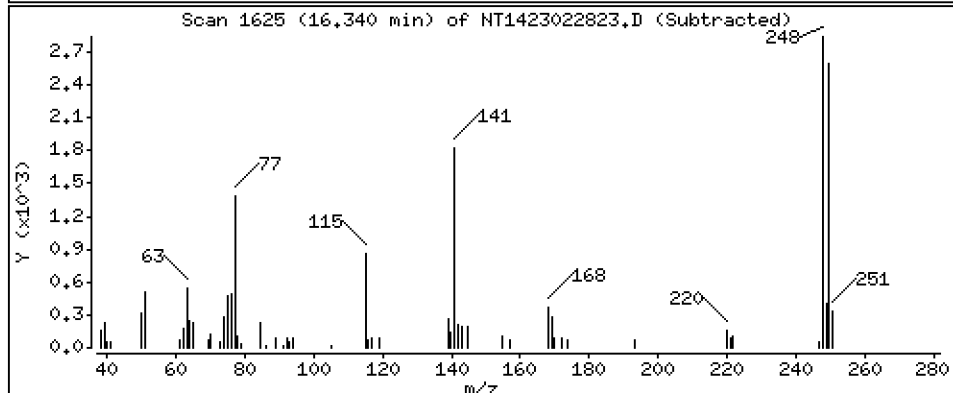
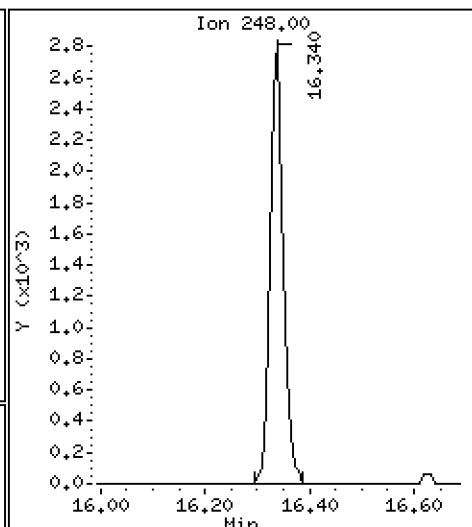
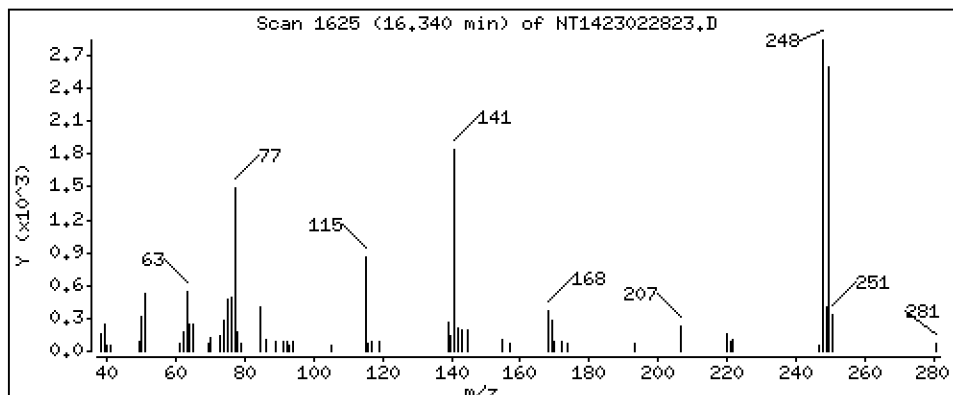
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,2019 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

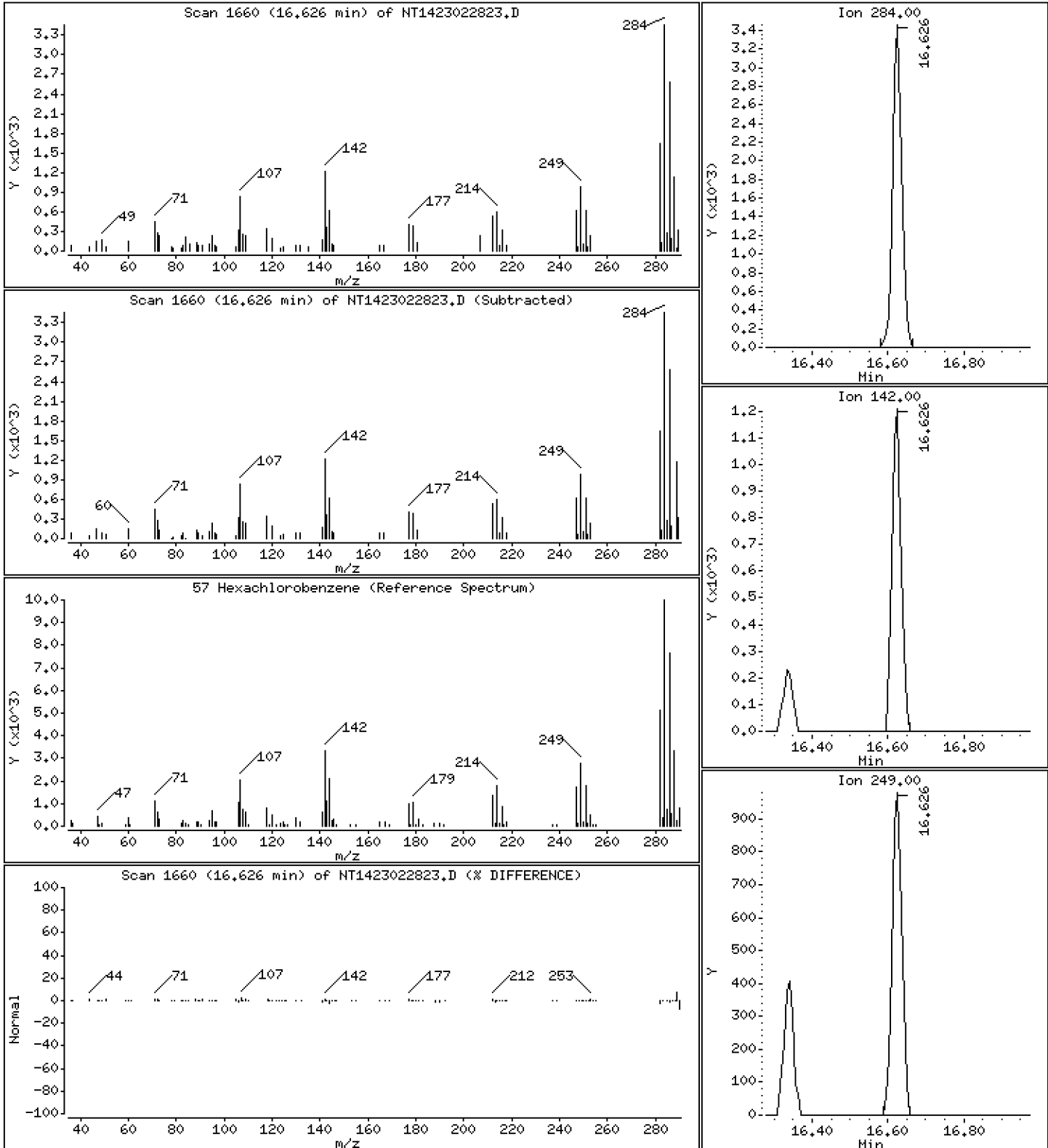
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 0.2138 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

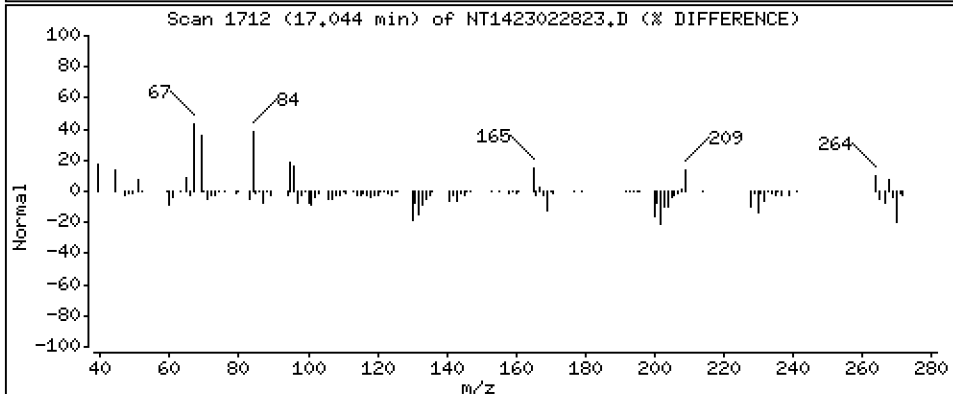
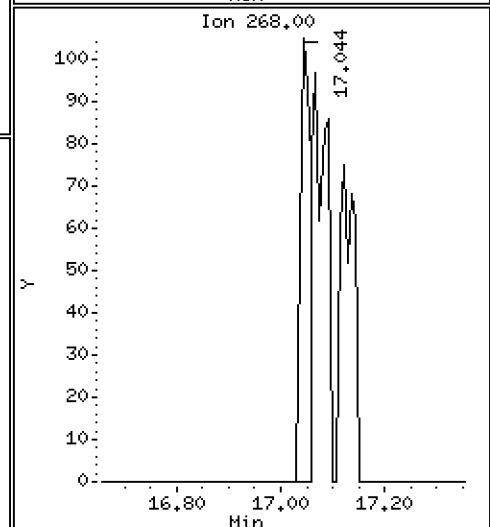
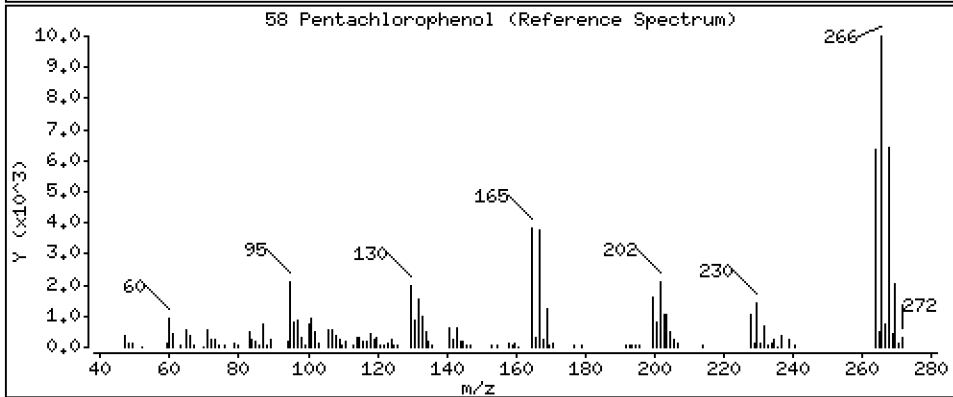
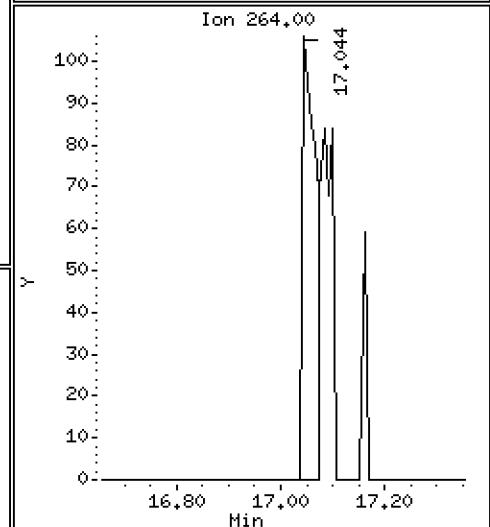
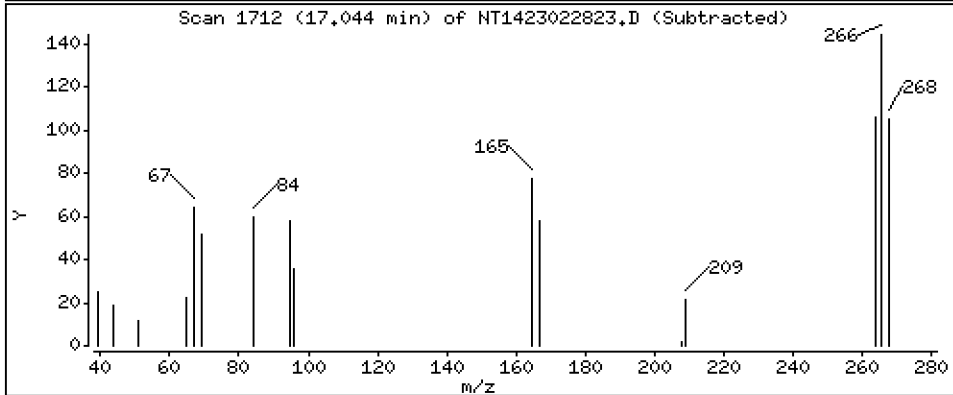
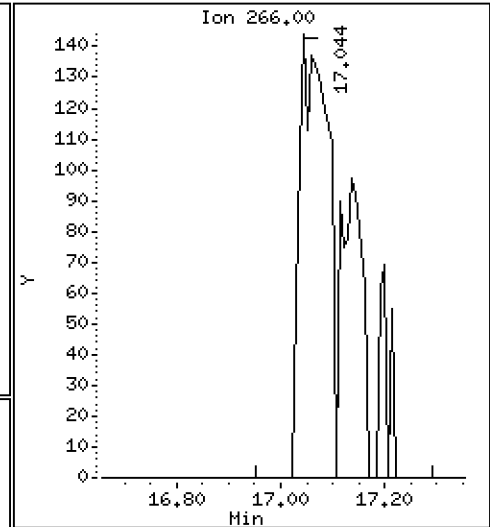
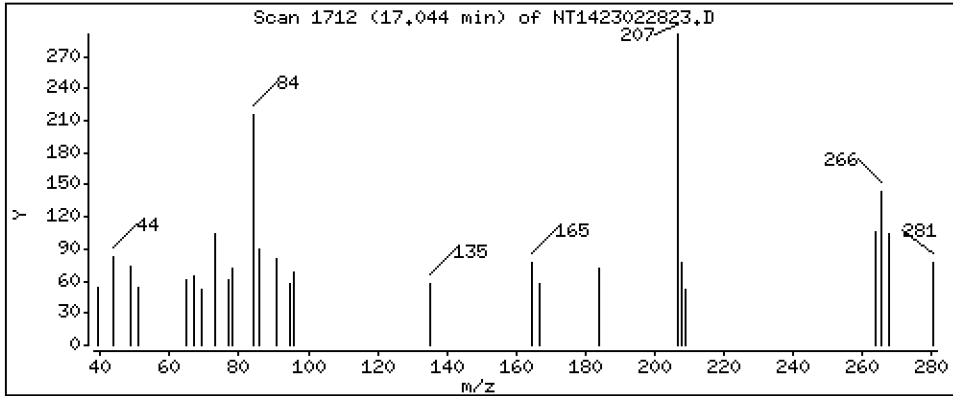
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,07199 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

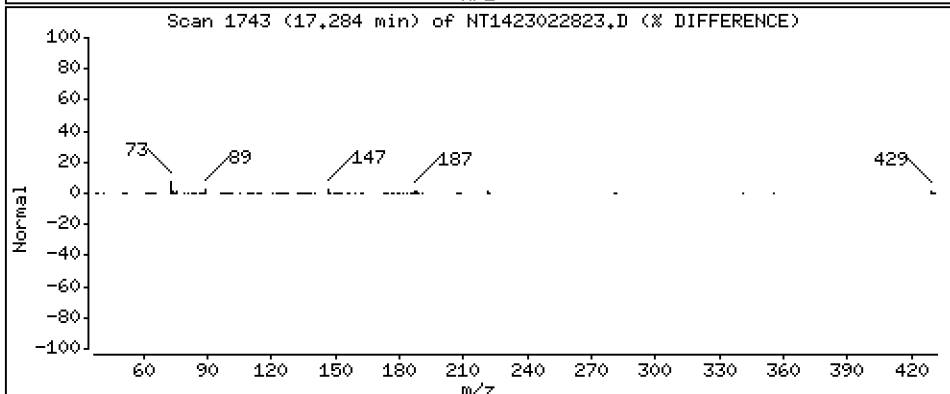
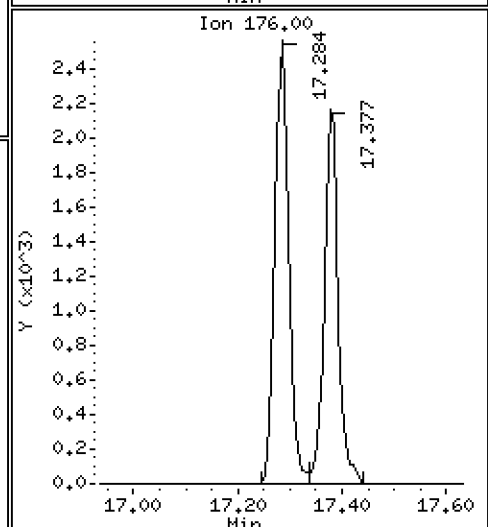
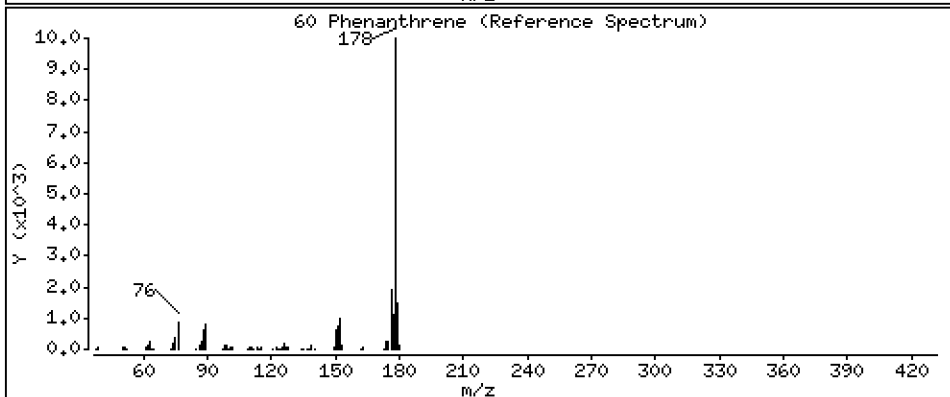
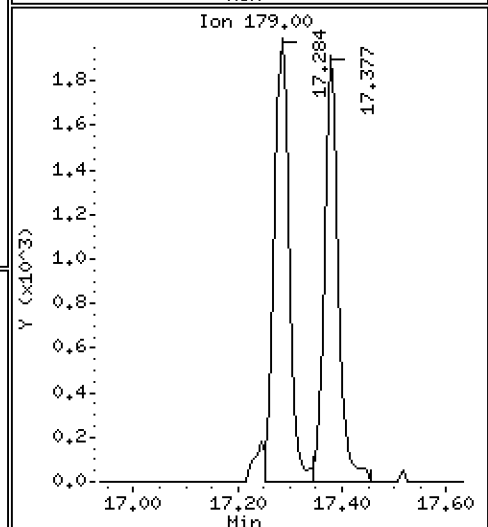
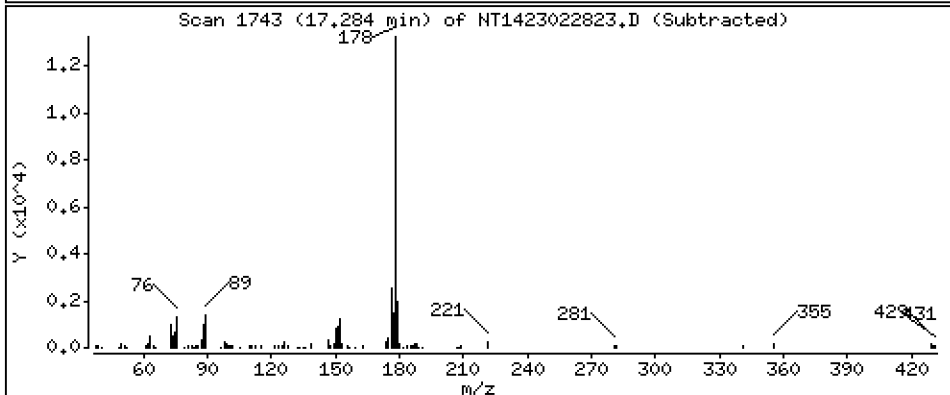
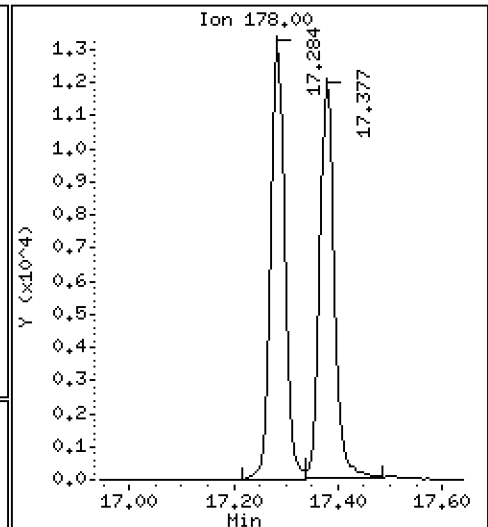
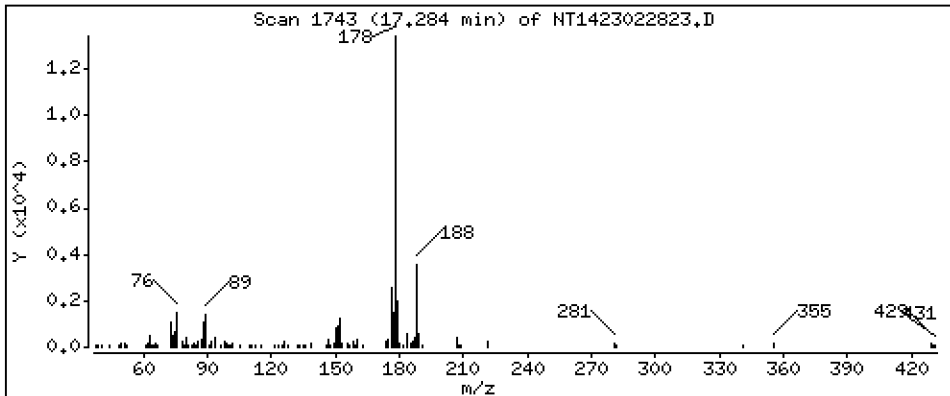
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 0.2061 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

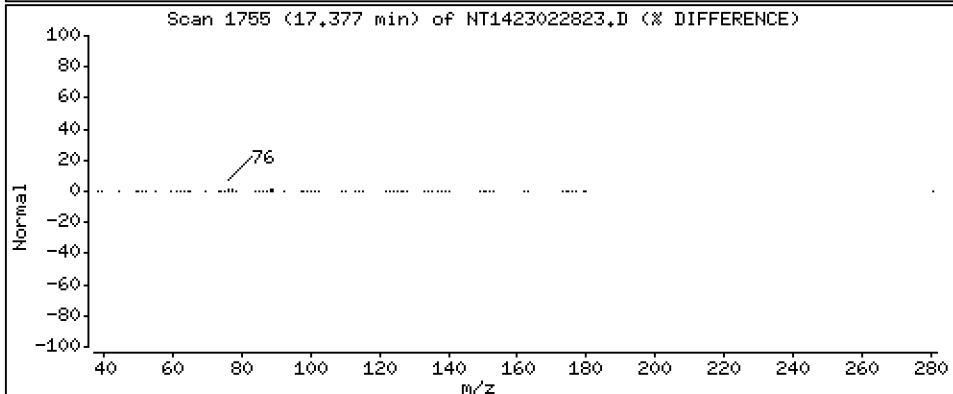
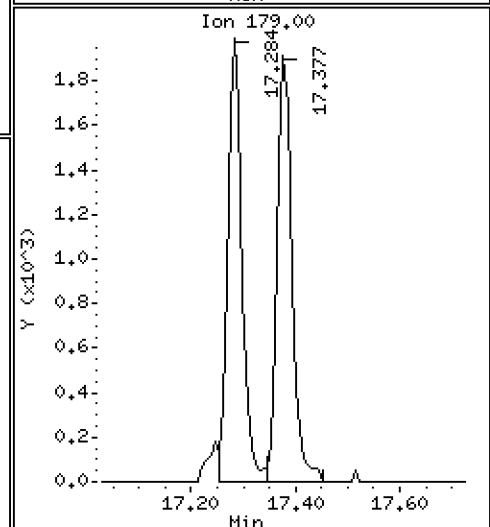
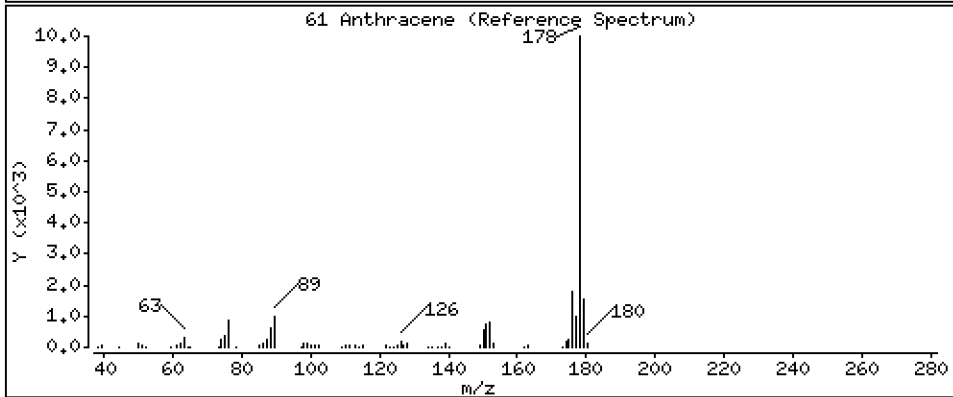
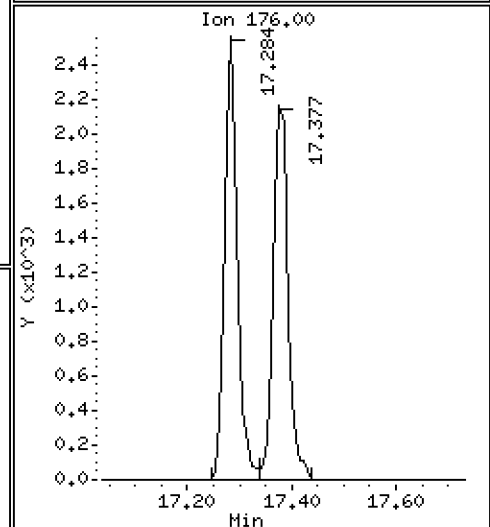
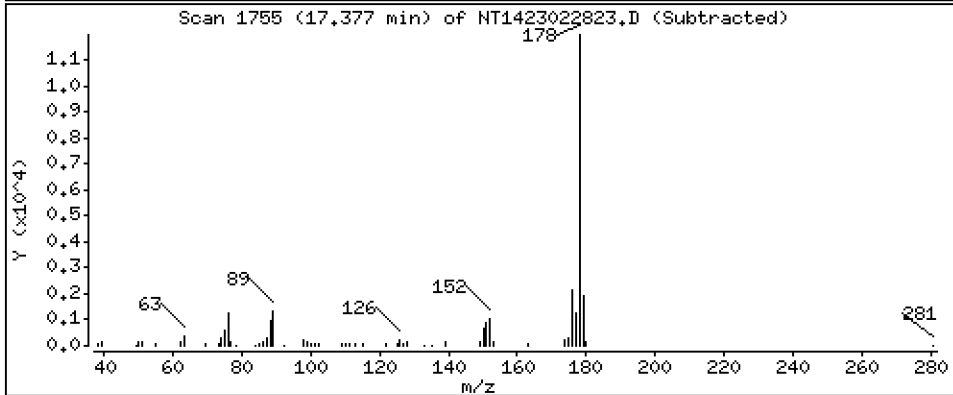
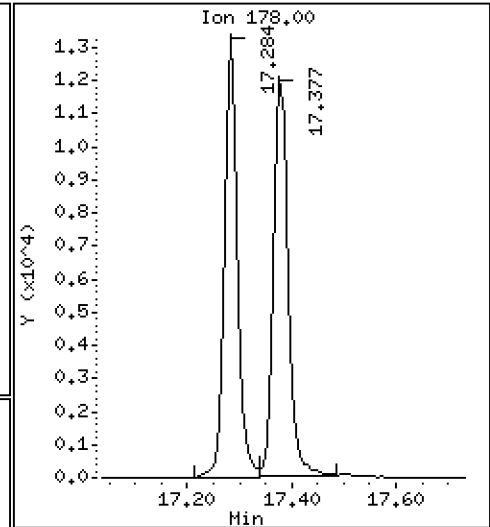
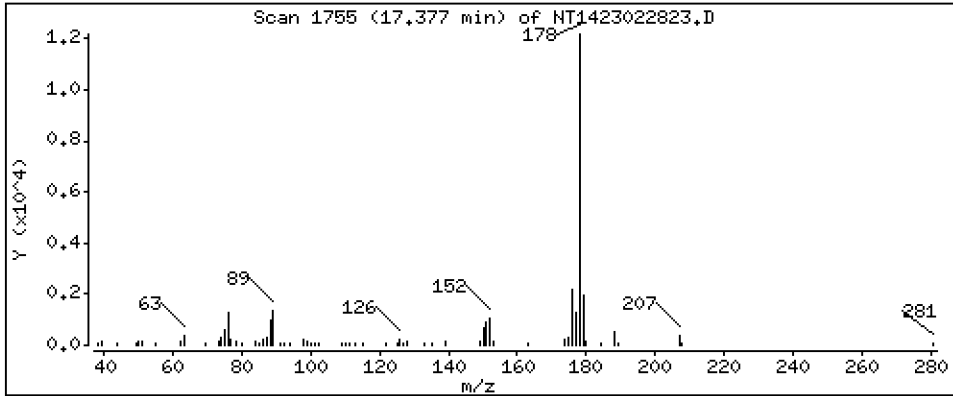
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2046 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

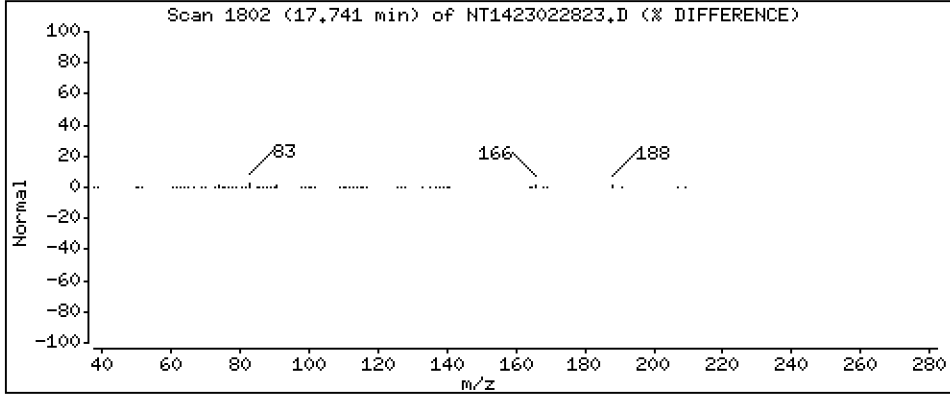
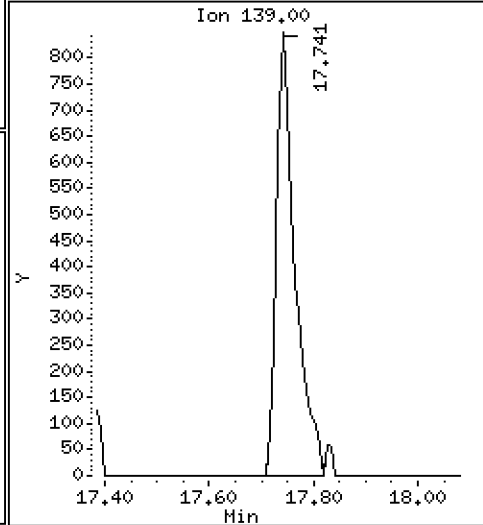
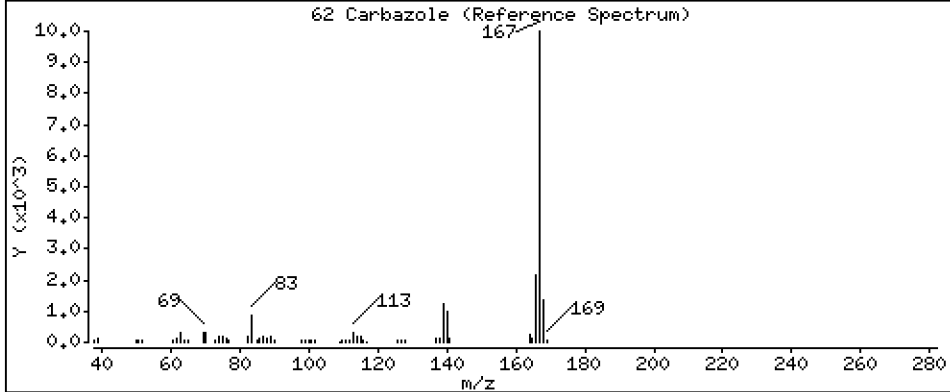
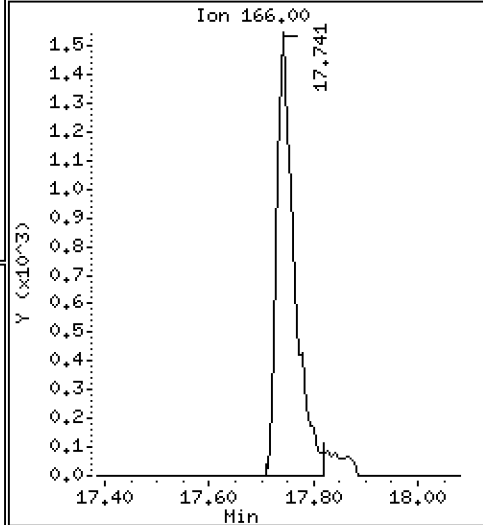
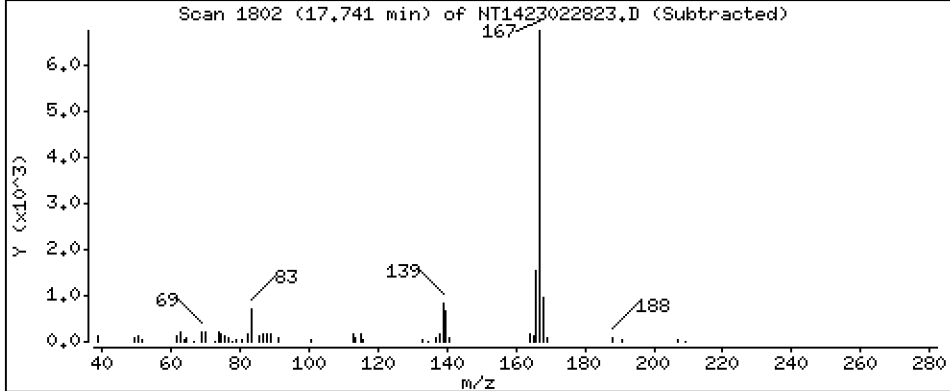
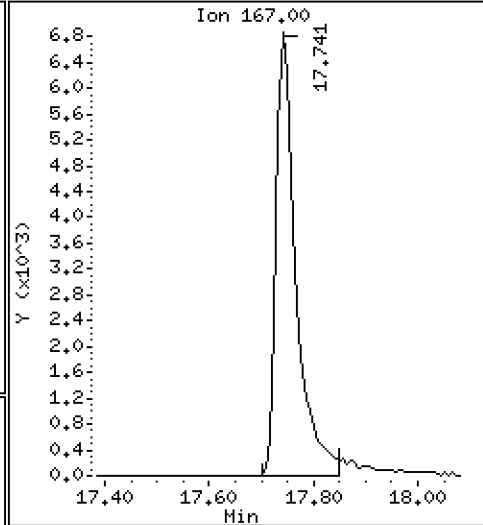
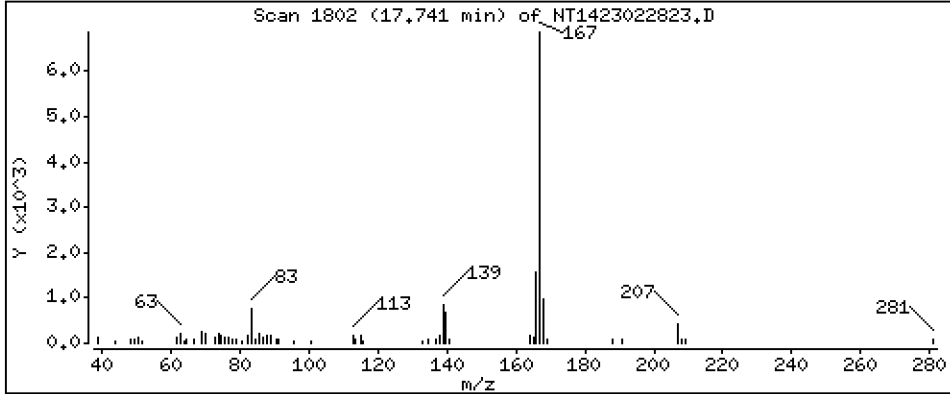
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1855 ug/mL





Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

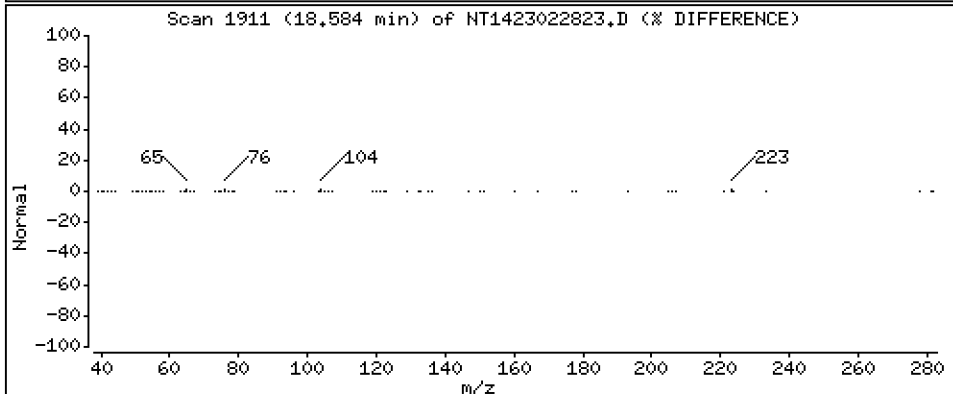
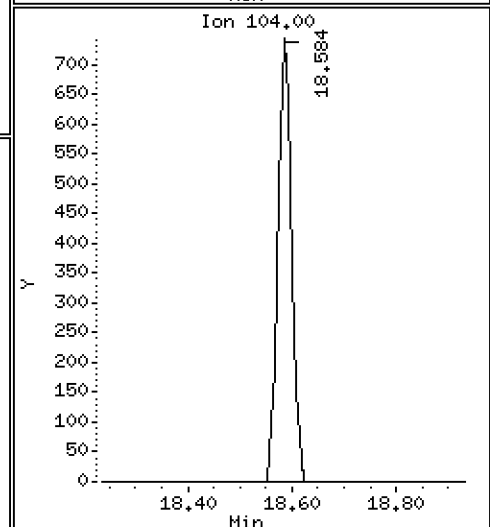
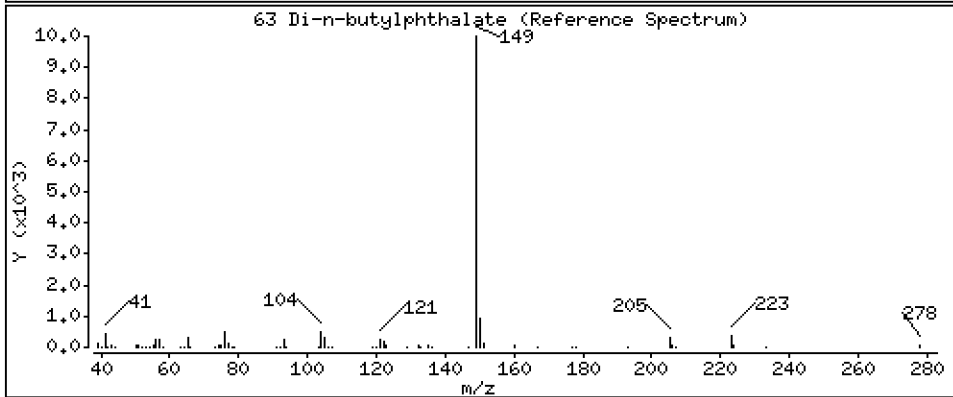
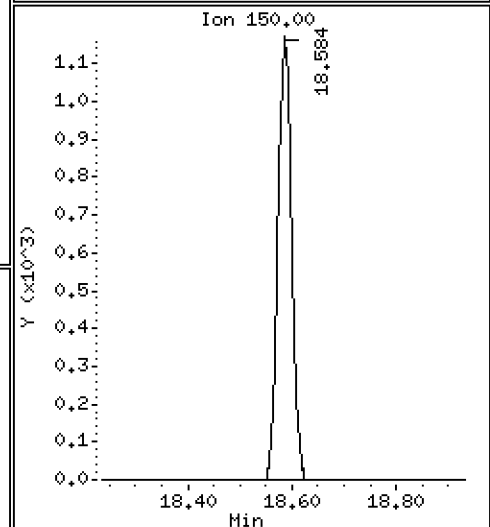
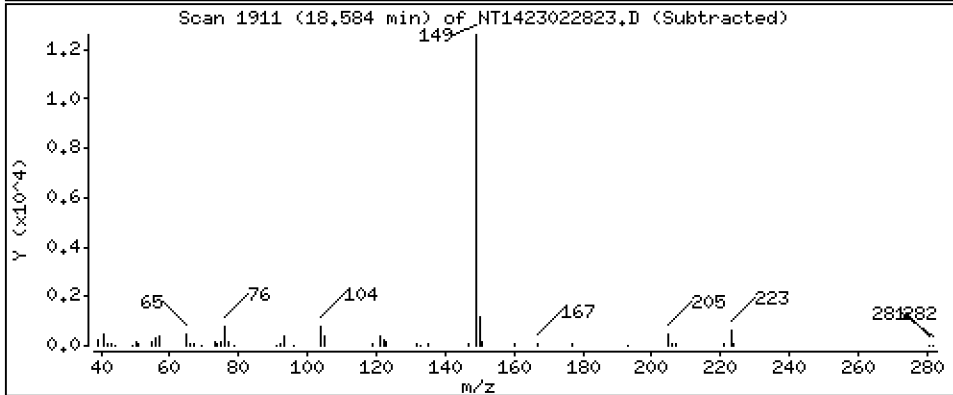
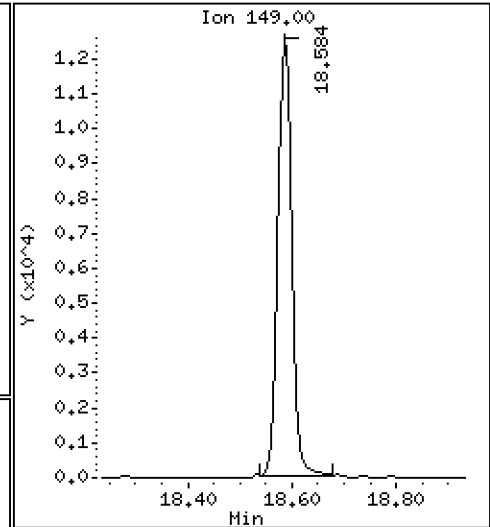
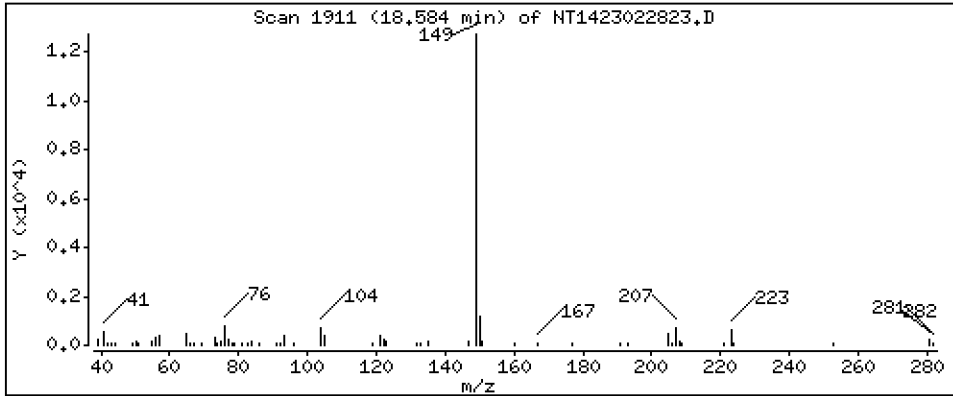
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,1791 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

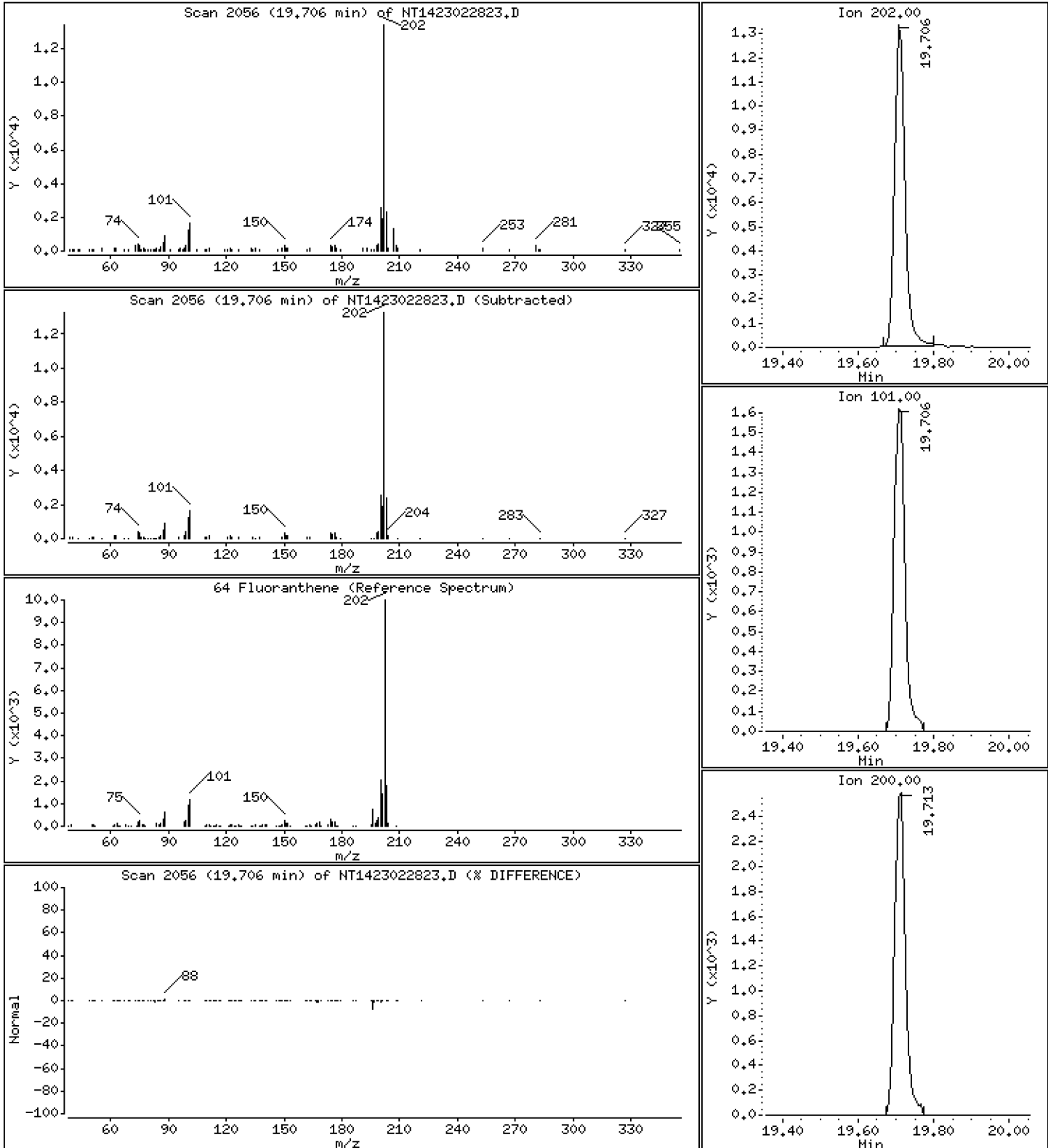
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,1972 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

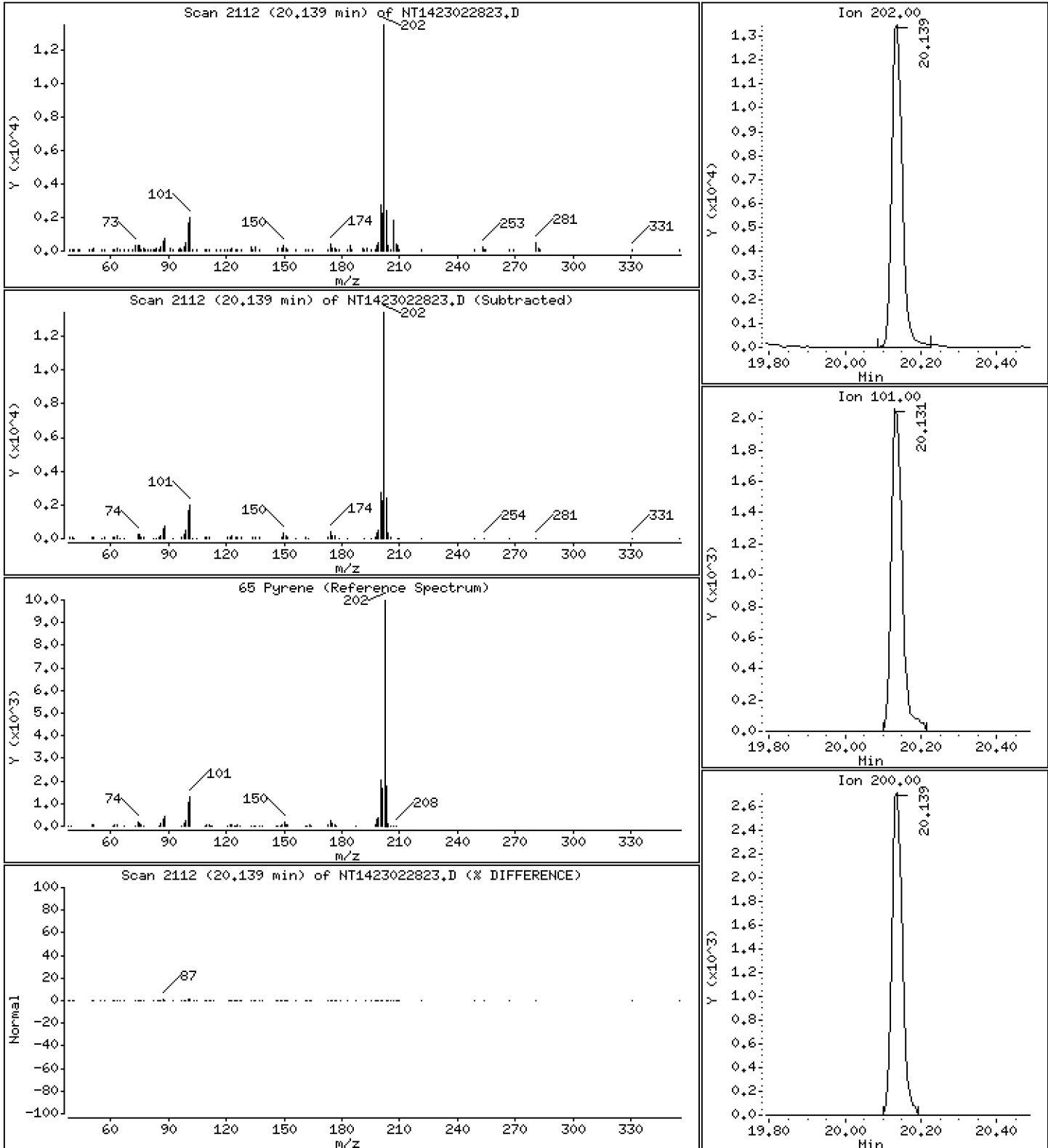
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,1944 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

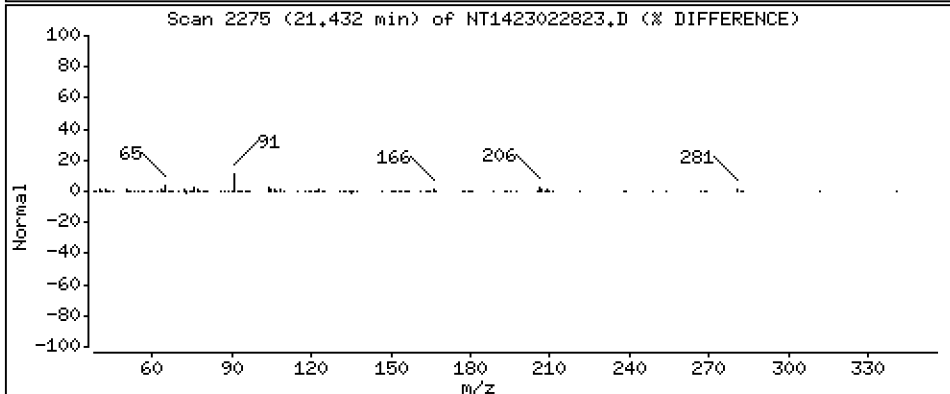
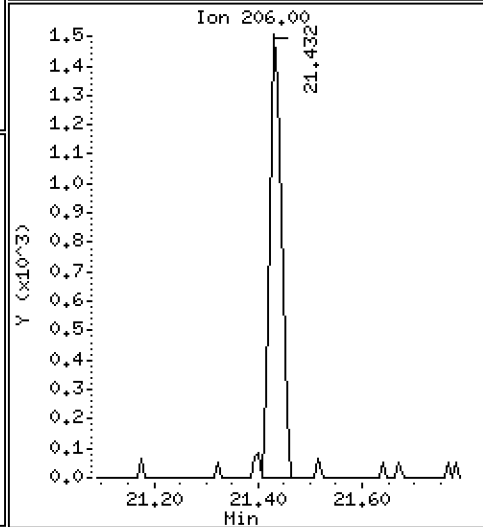
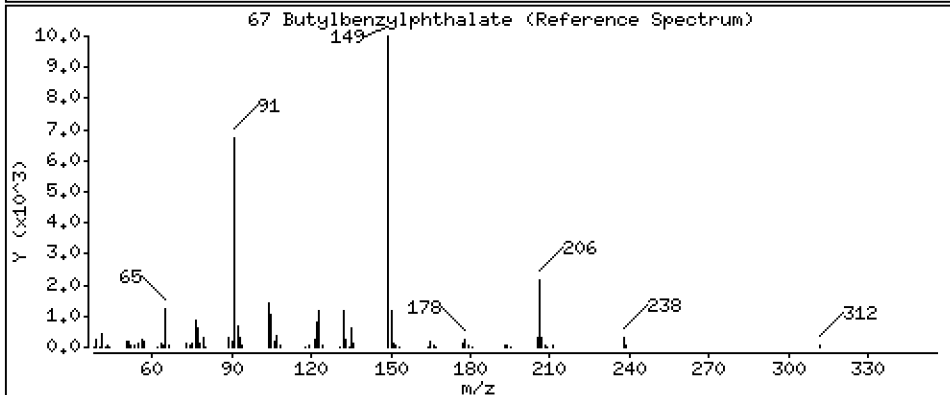
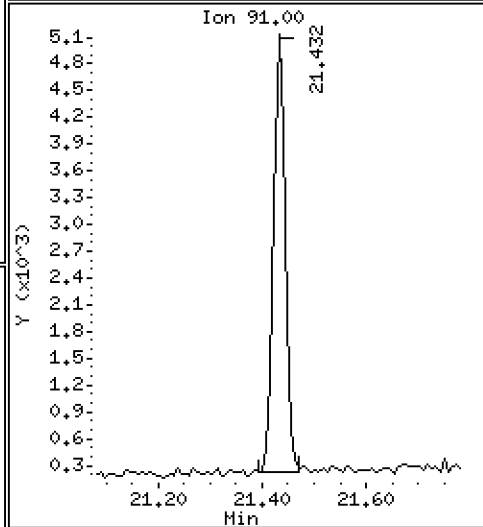
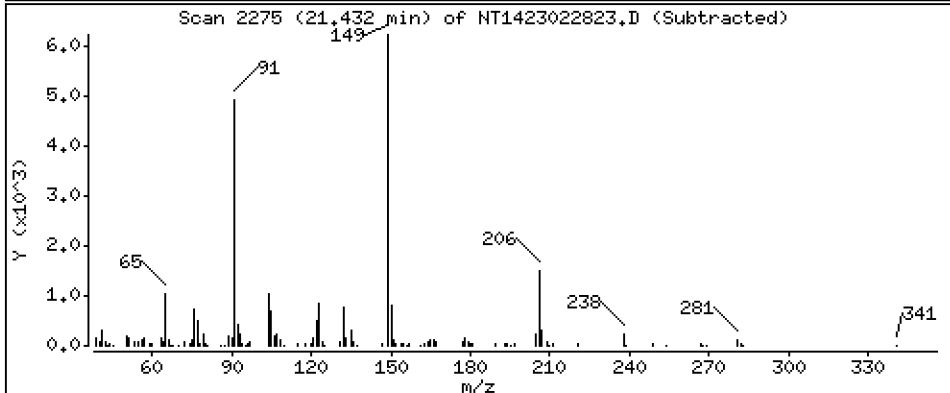
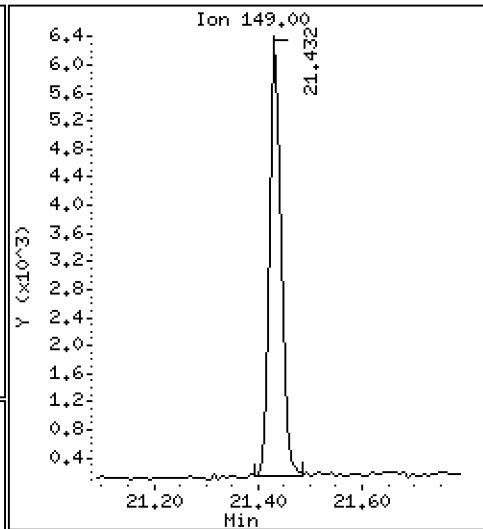
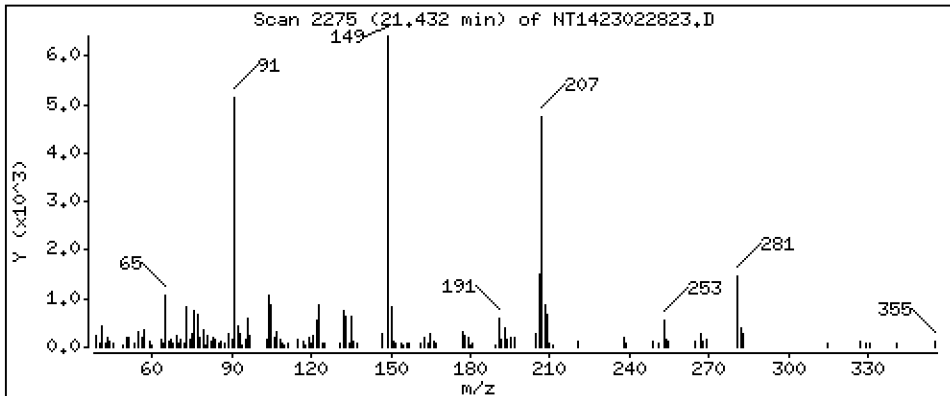
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,2043 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

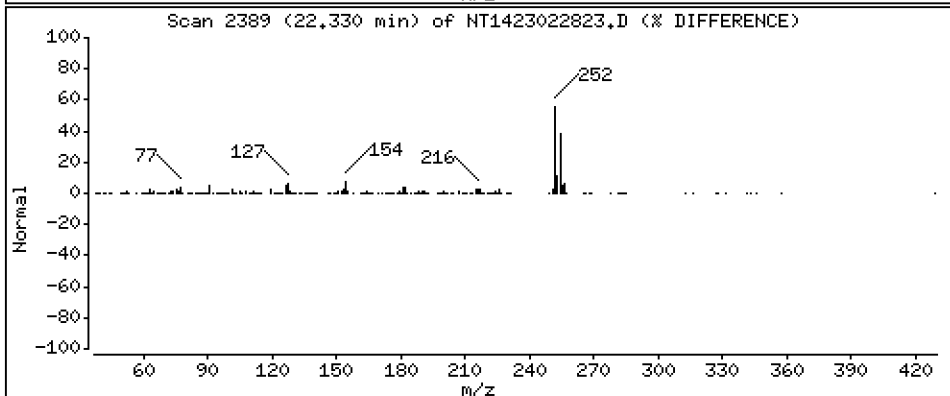
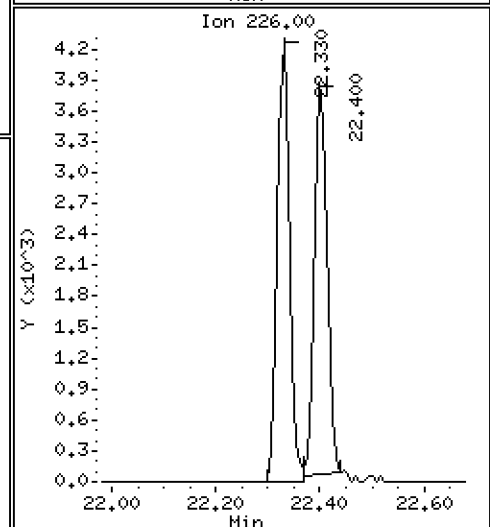
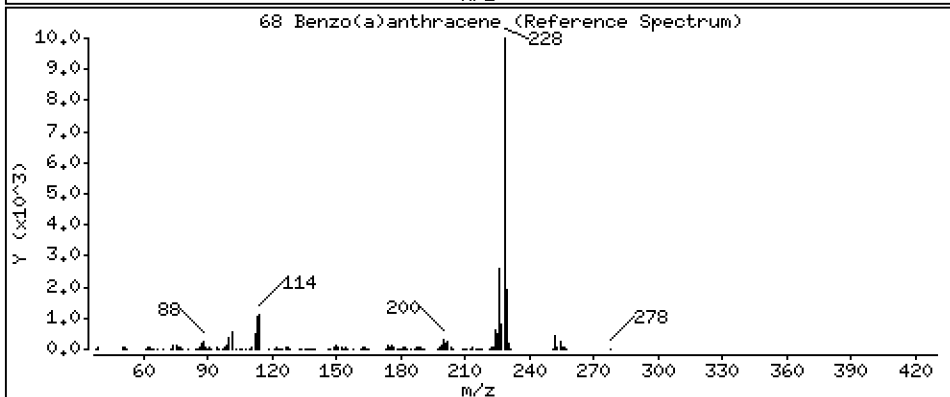
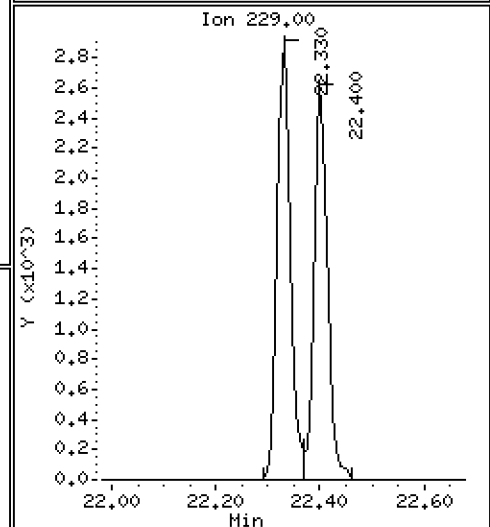
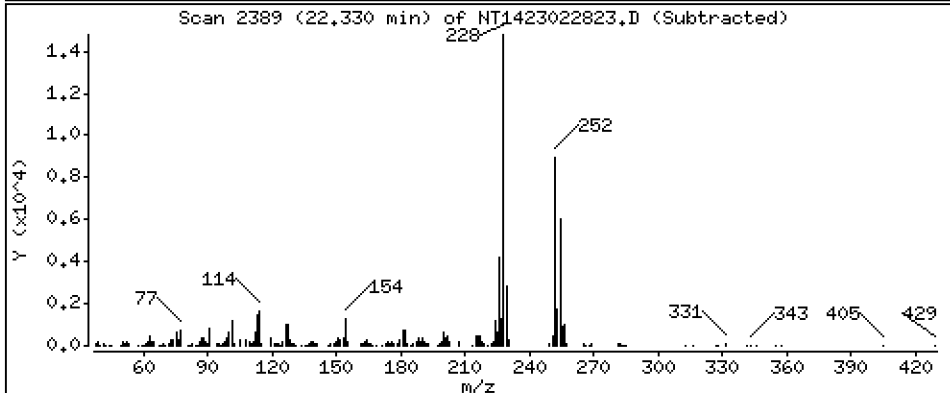
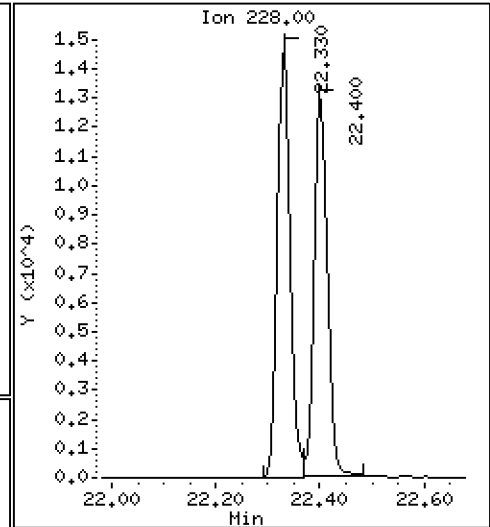
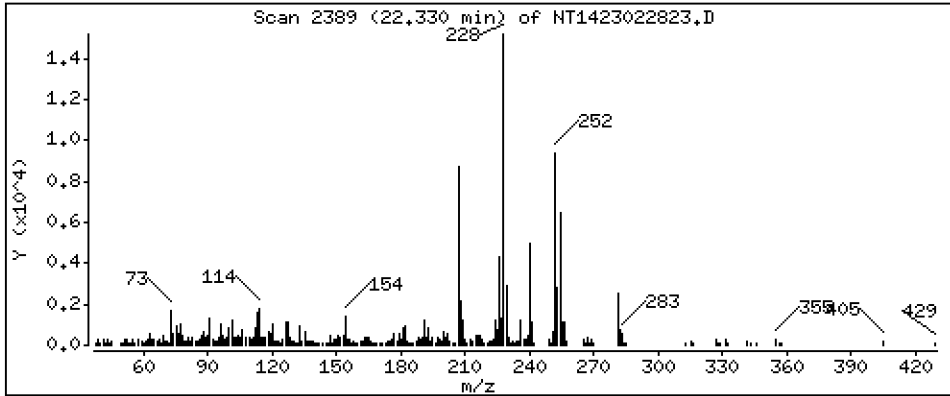
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 0.2215 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

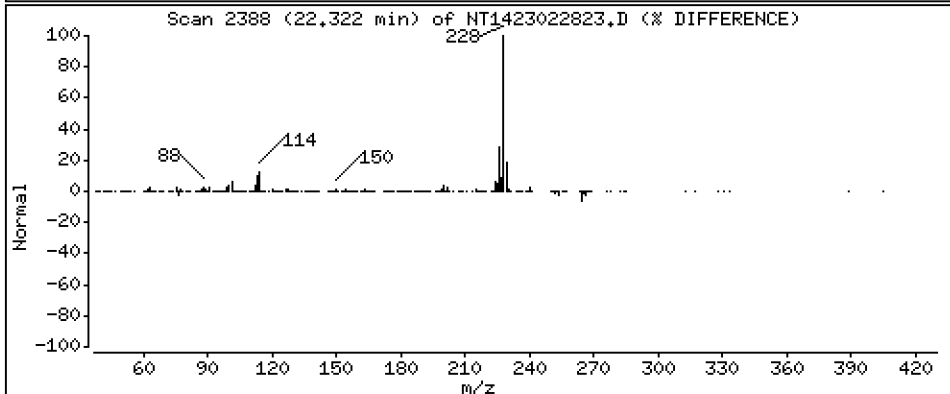
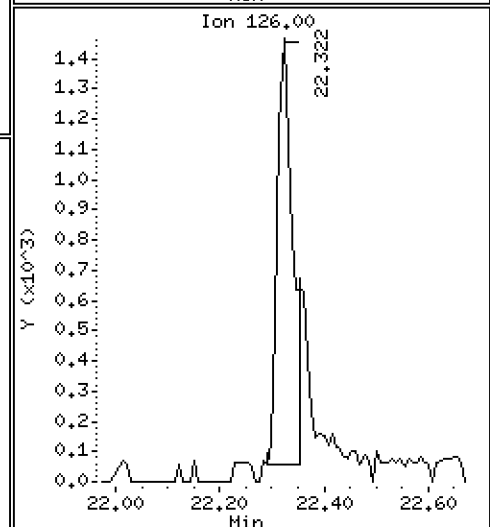
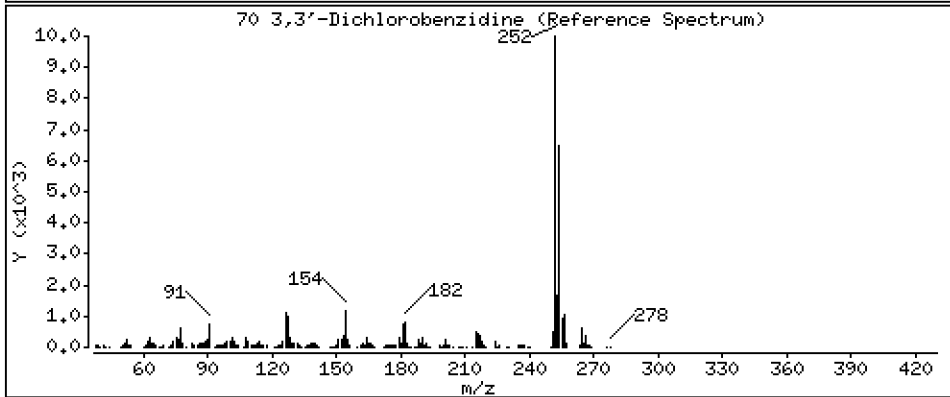
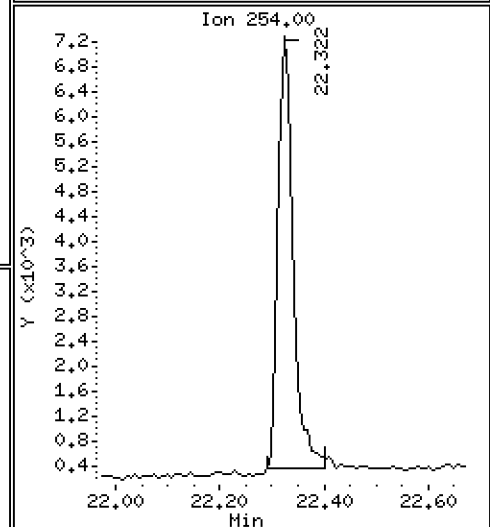
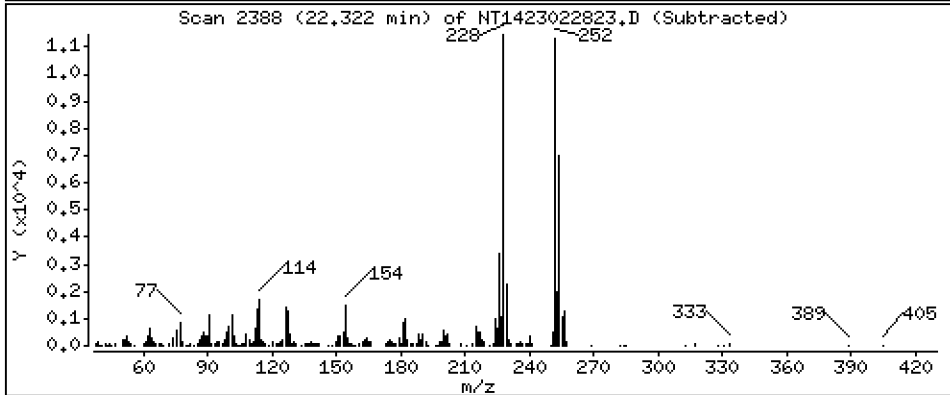
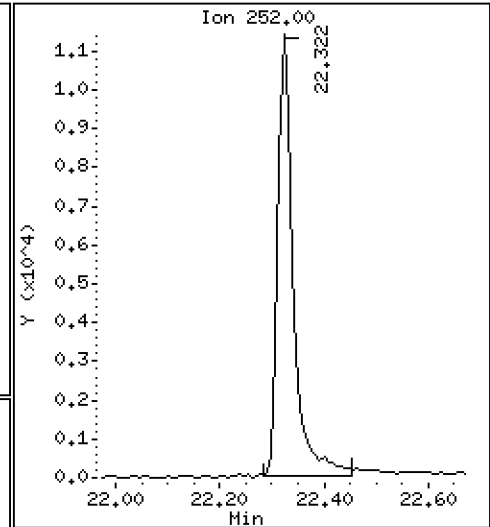
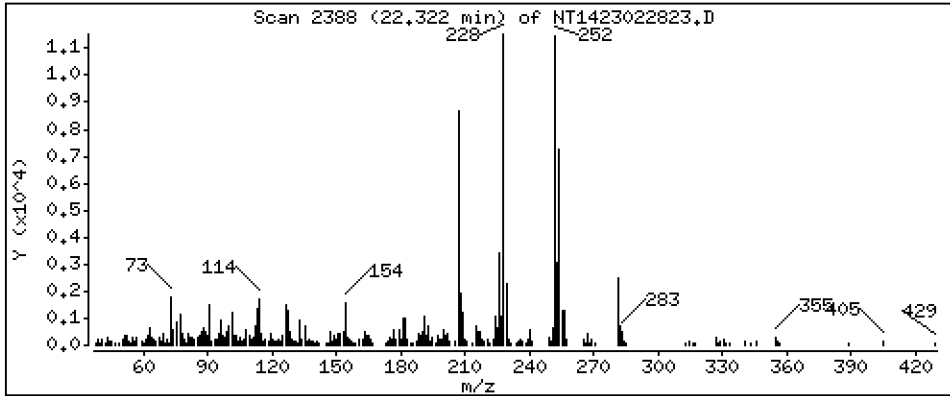
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,7330 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

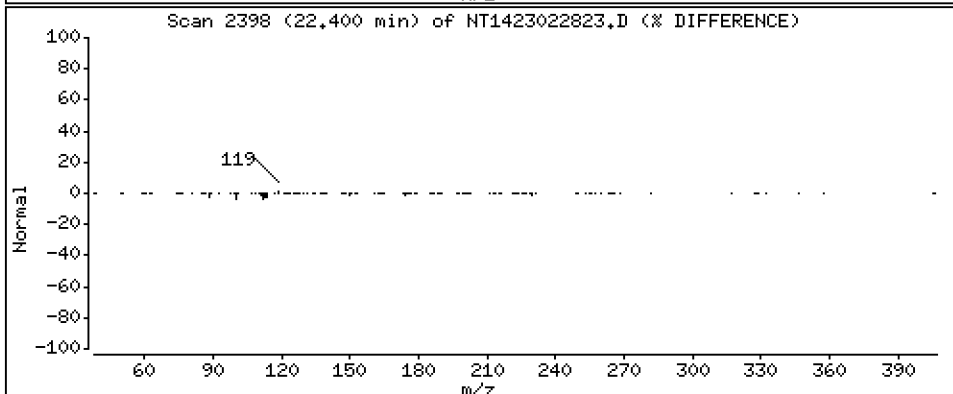
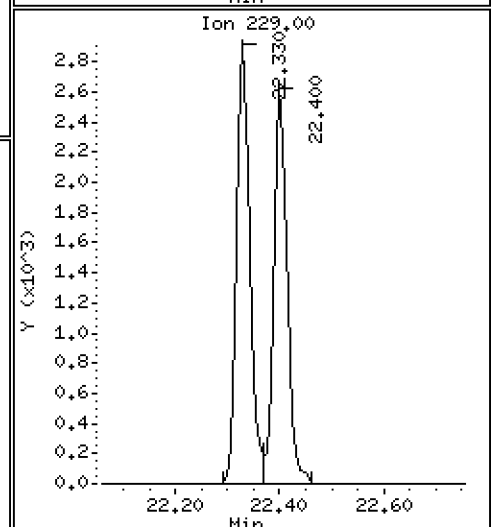
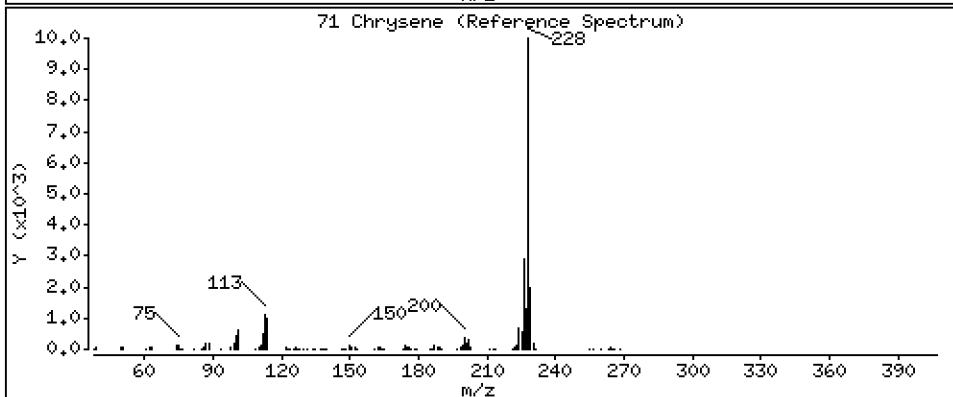
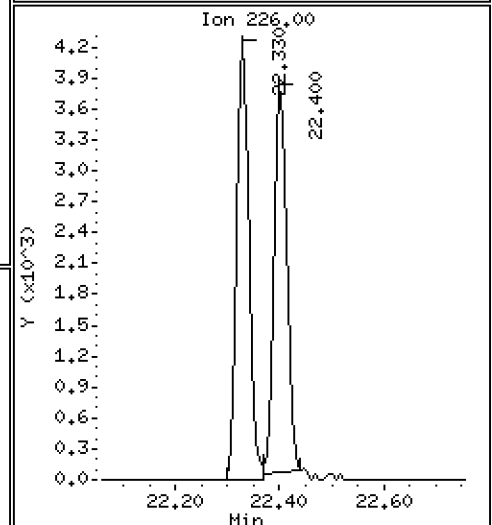
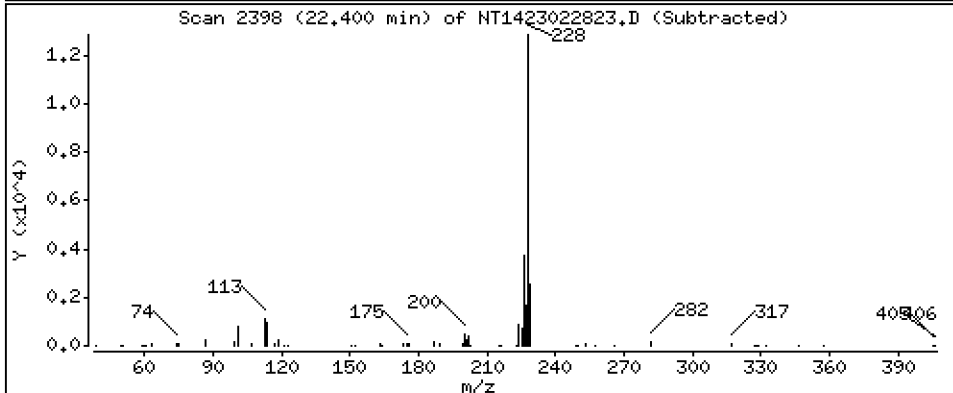
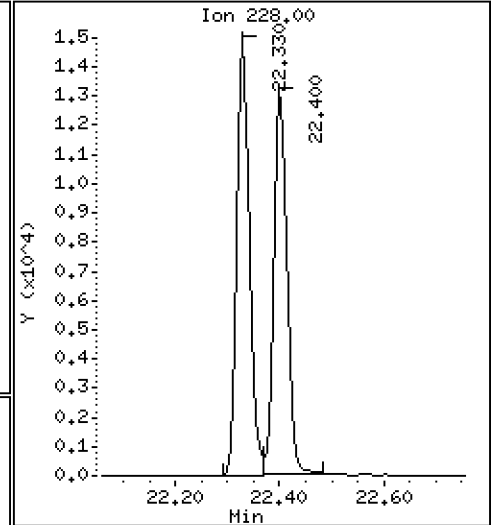
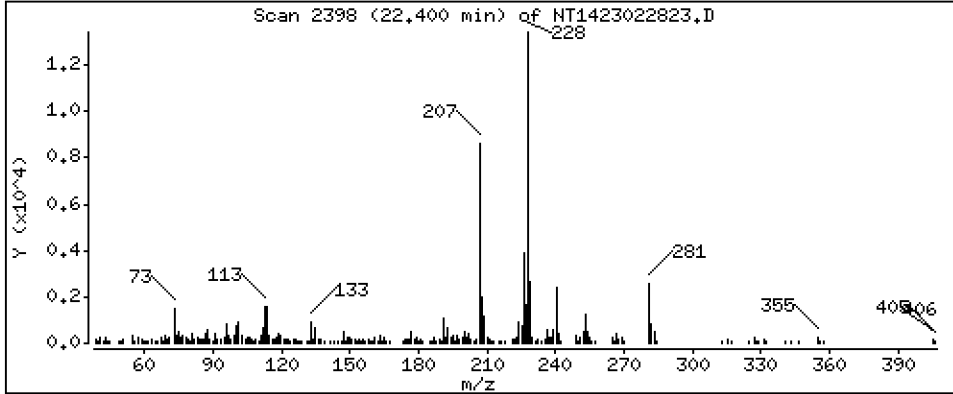
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2153 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

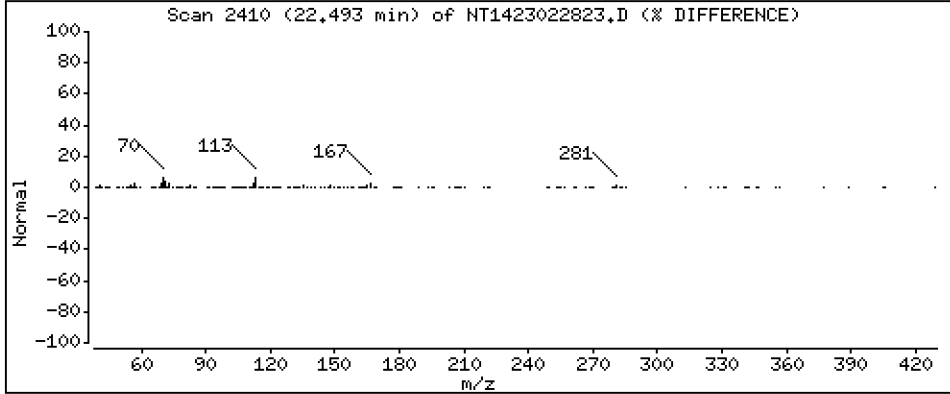
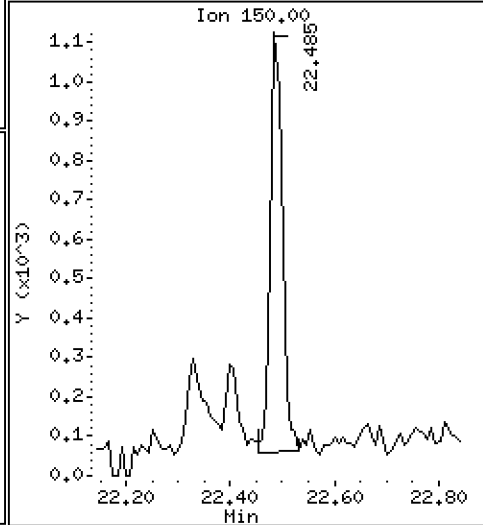
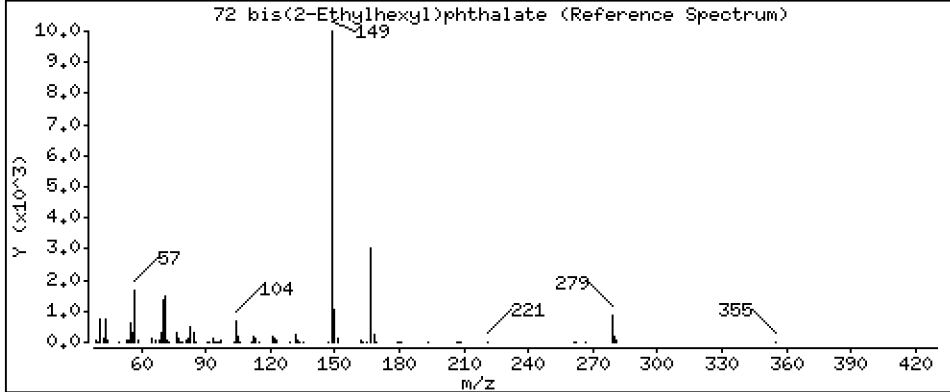
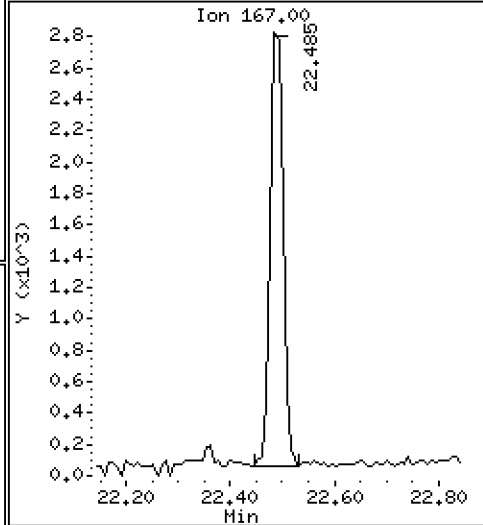
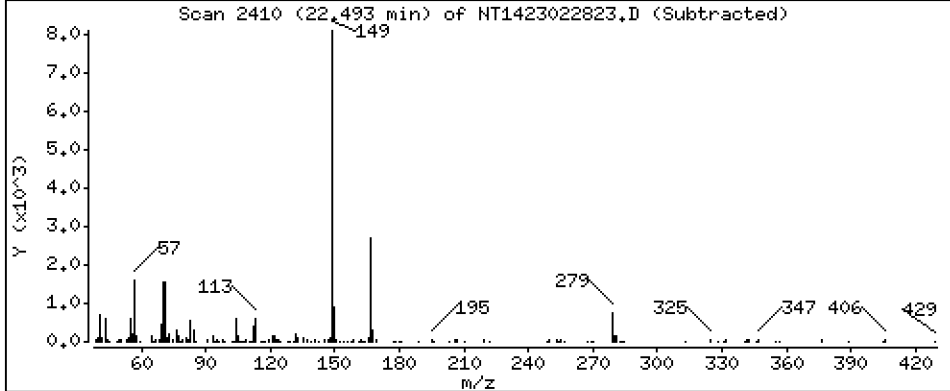
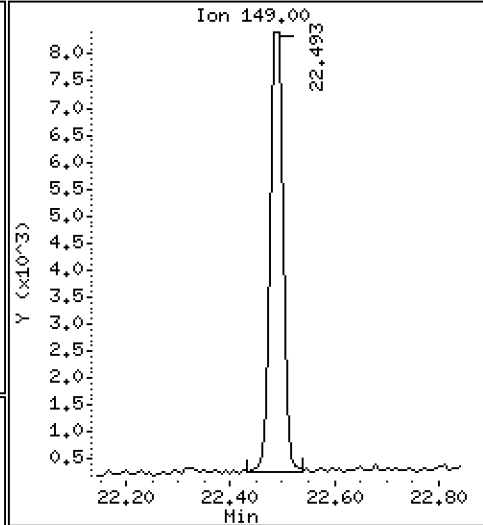
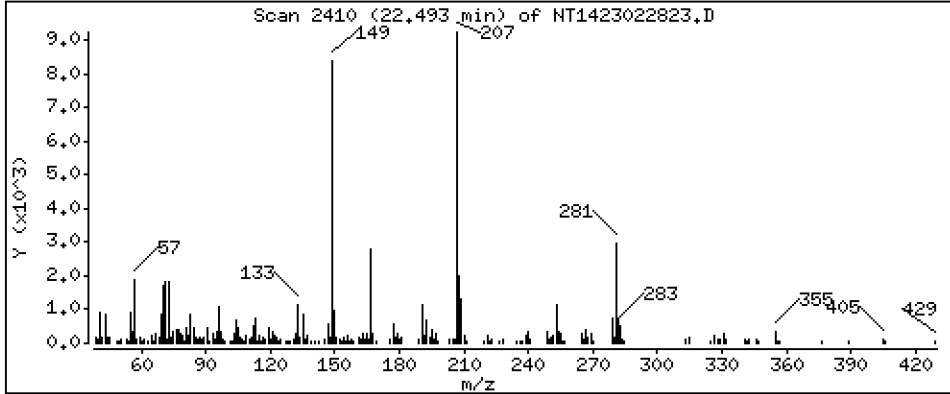
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,1802 ug/mL





Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

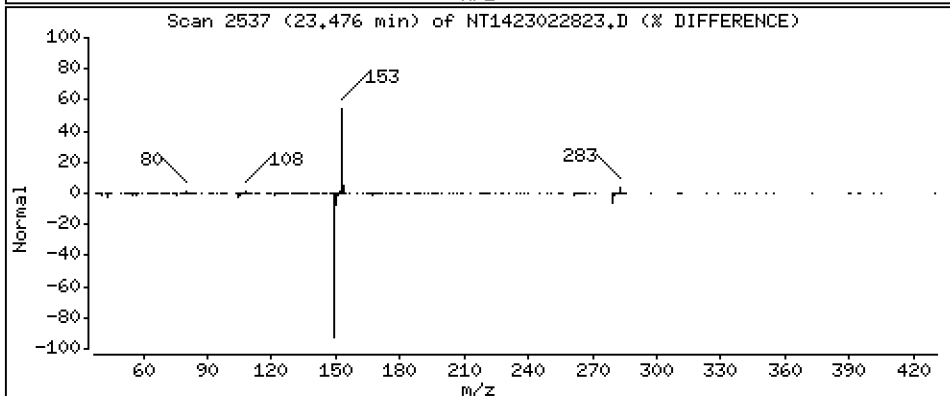
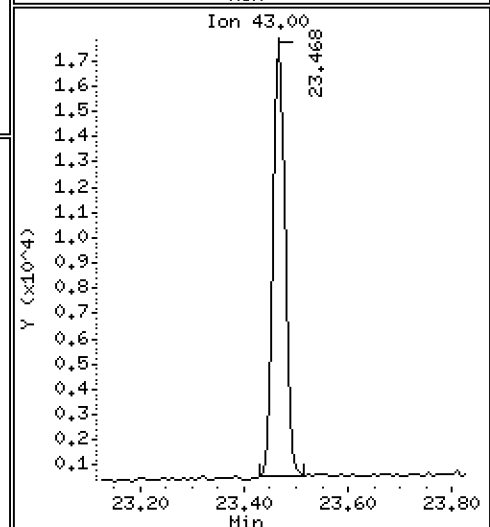
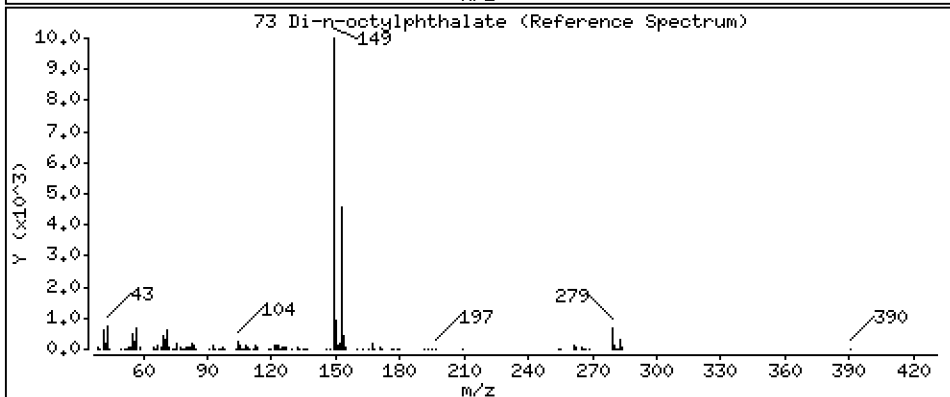
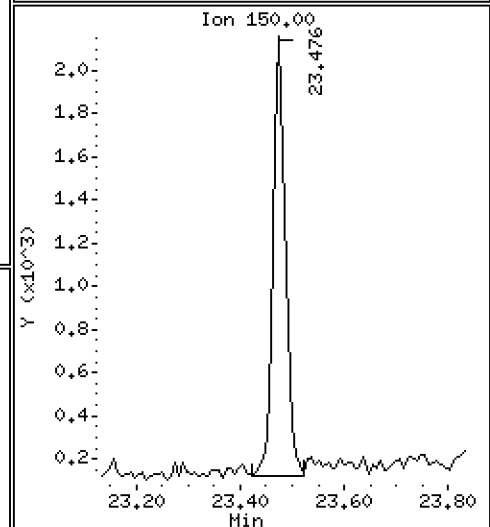
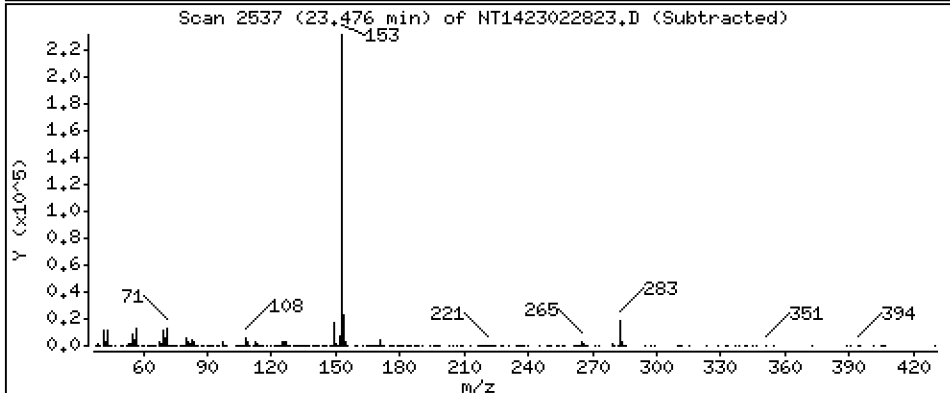
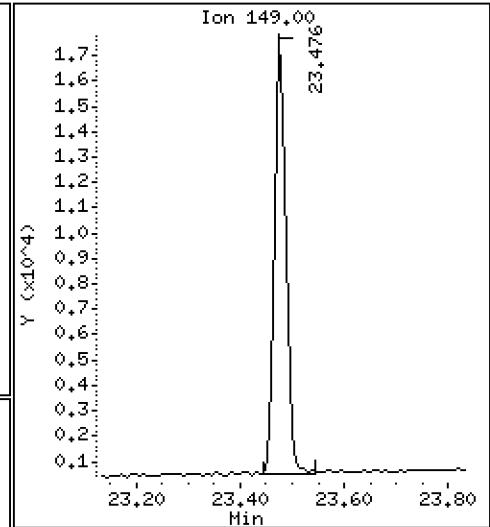
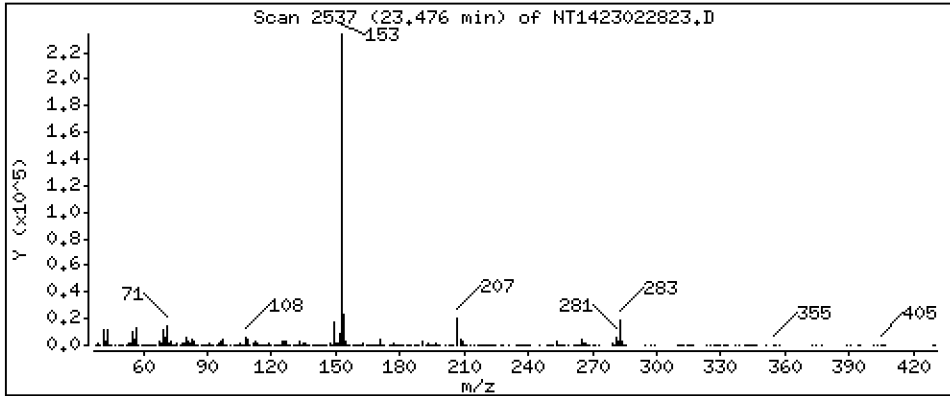
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2023 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

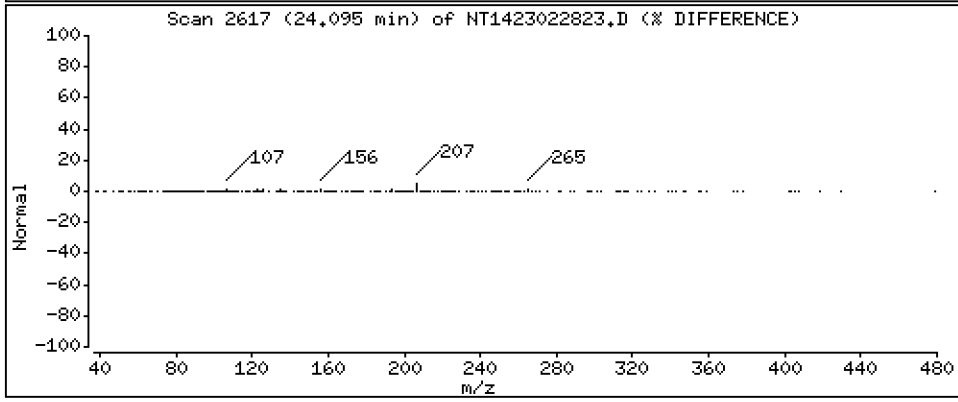
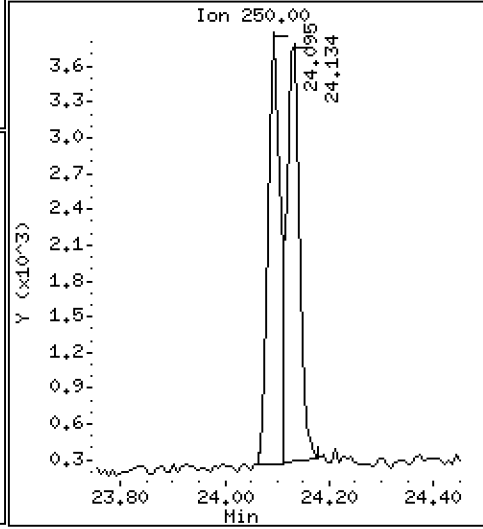
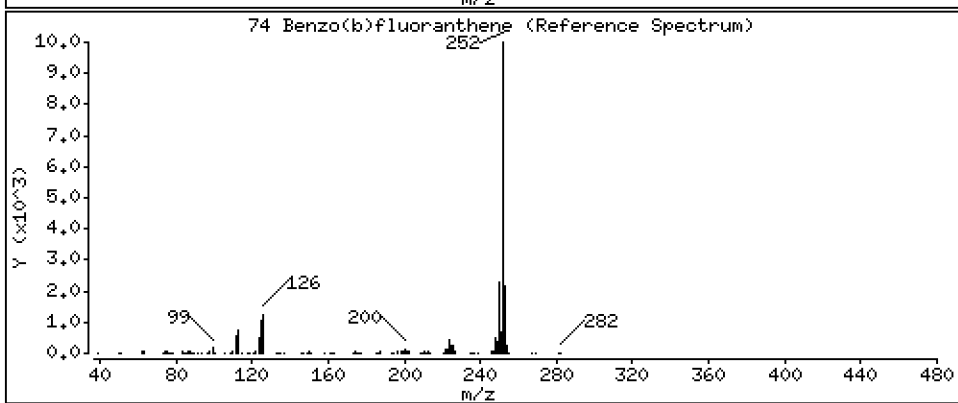
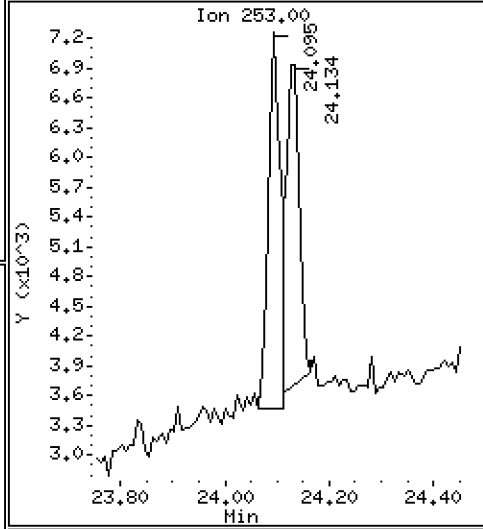
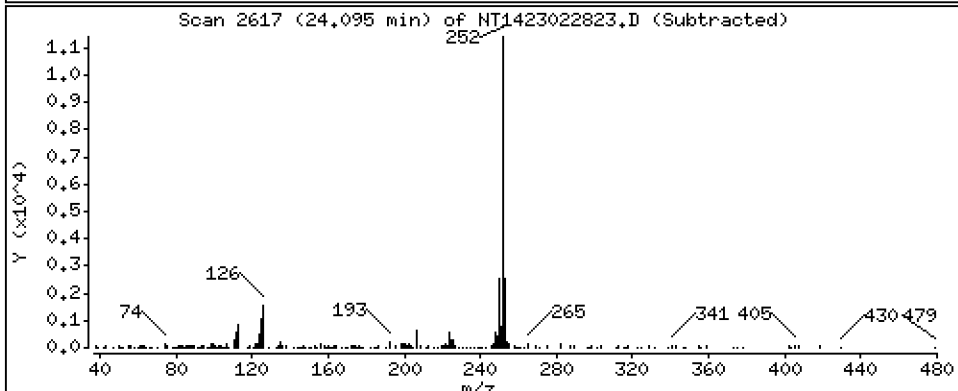
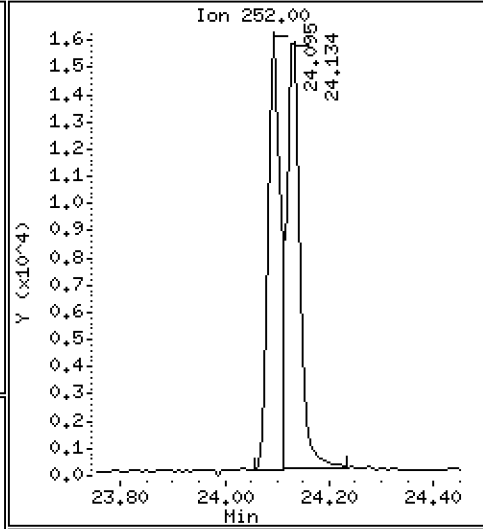
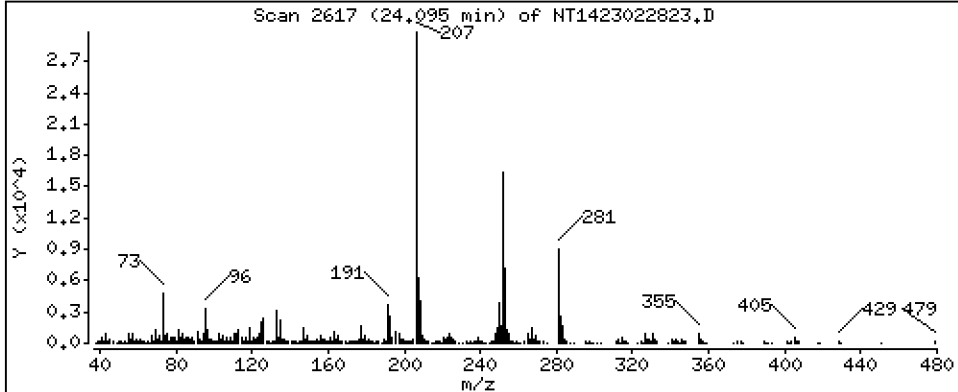
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,1956 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

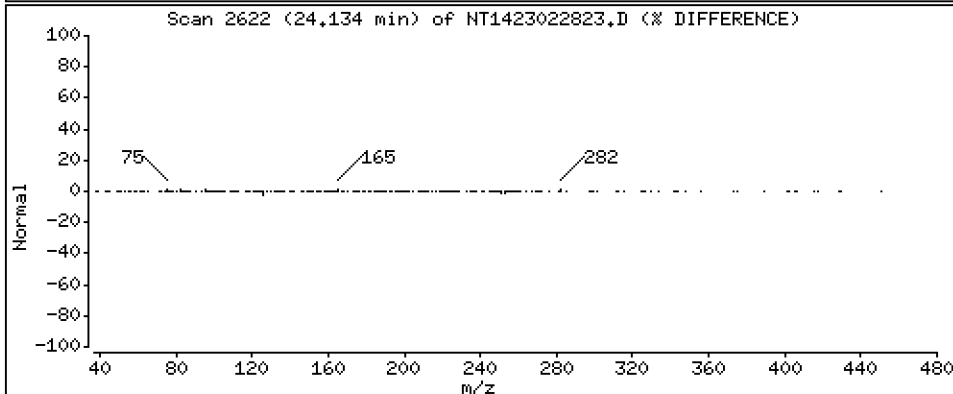
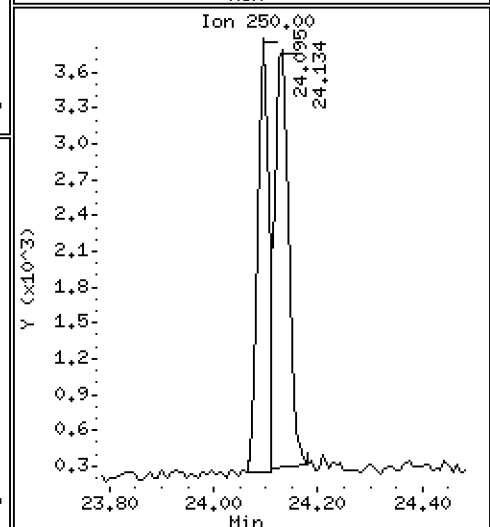
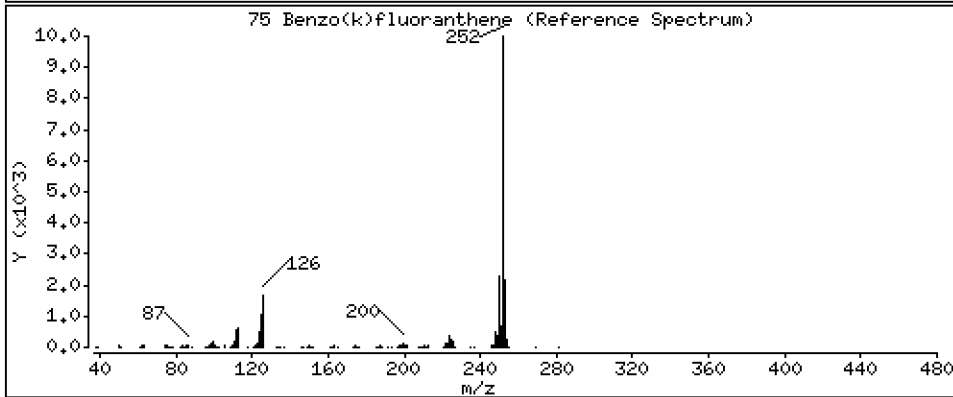
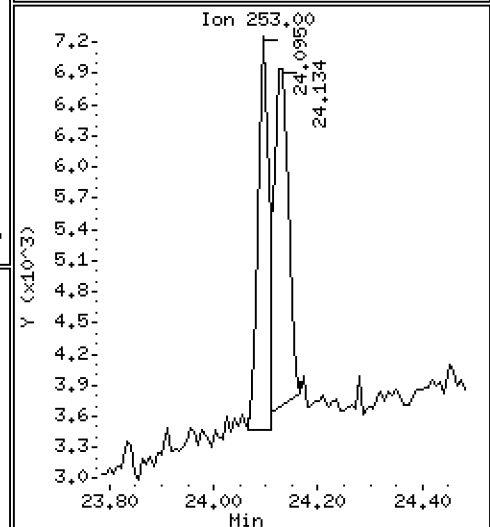
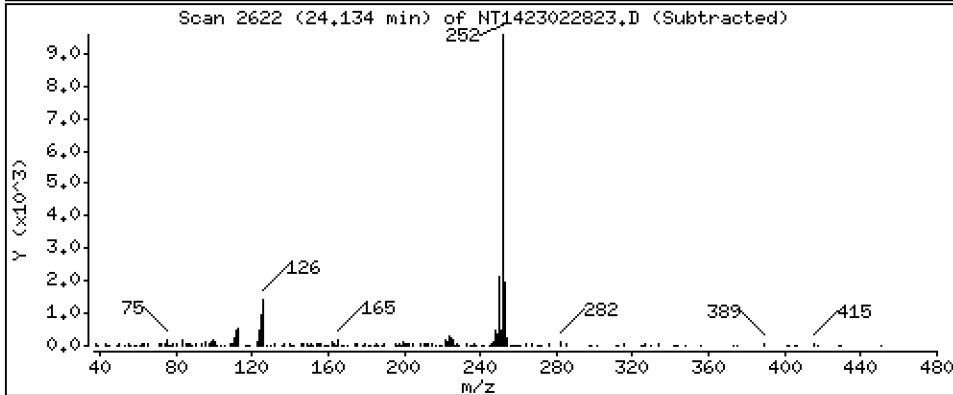
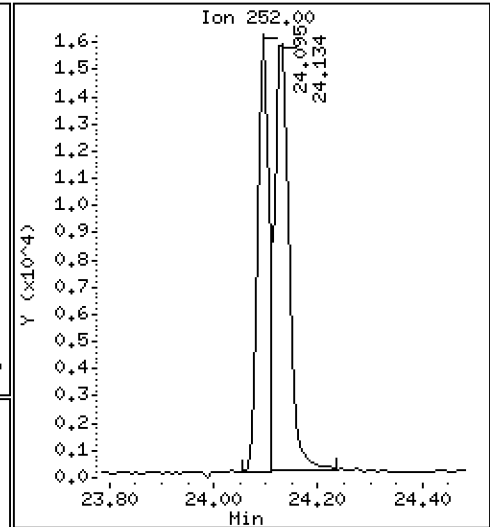
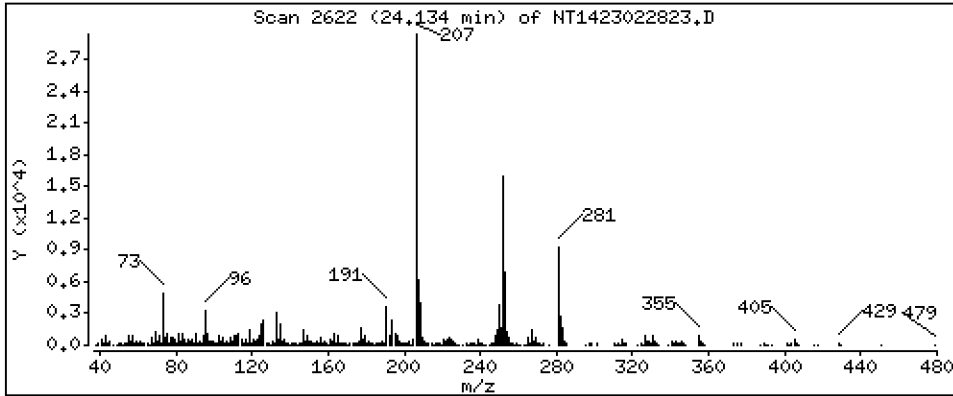
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2209 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

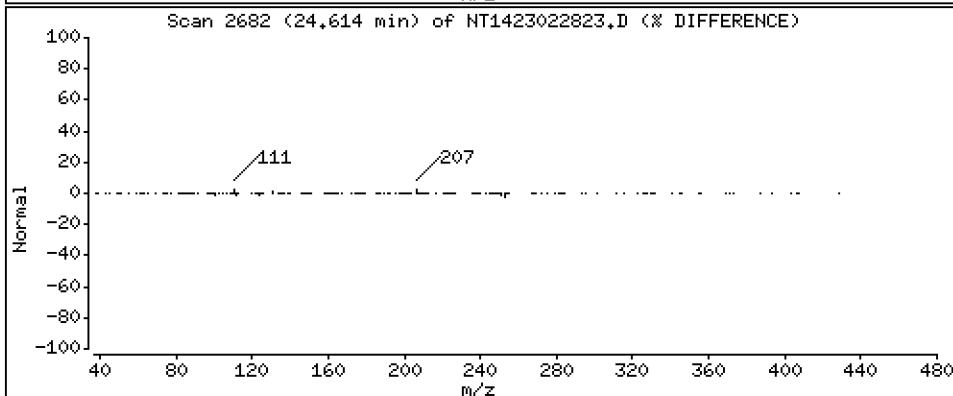
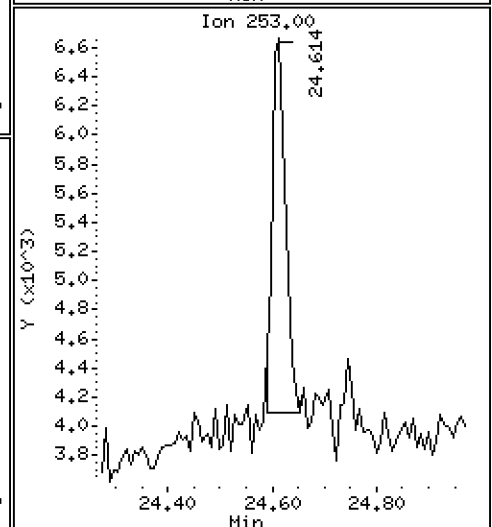
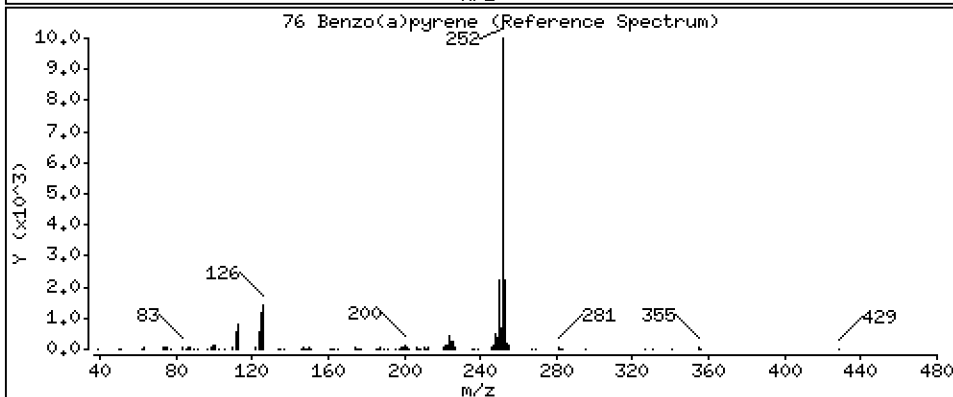
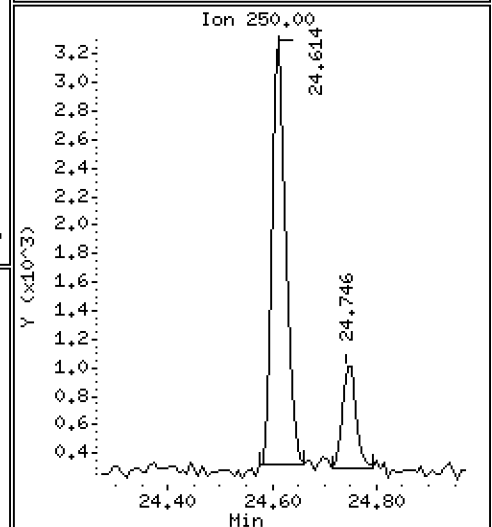
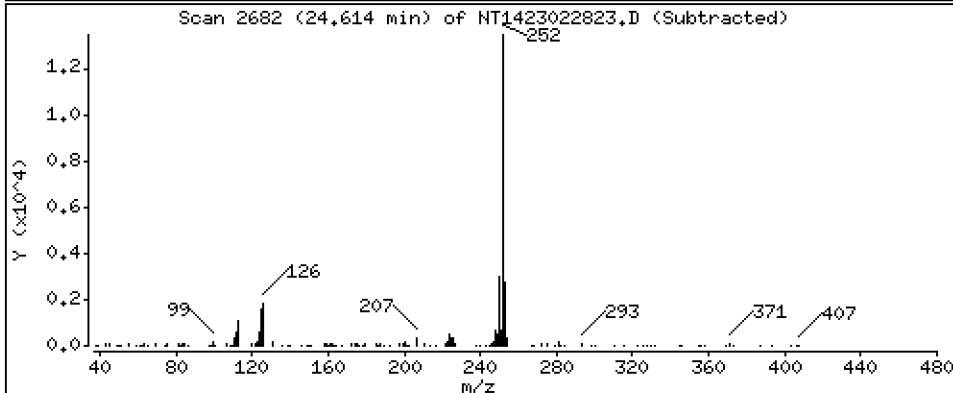
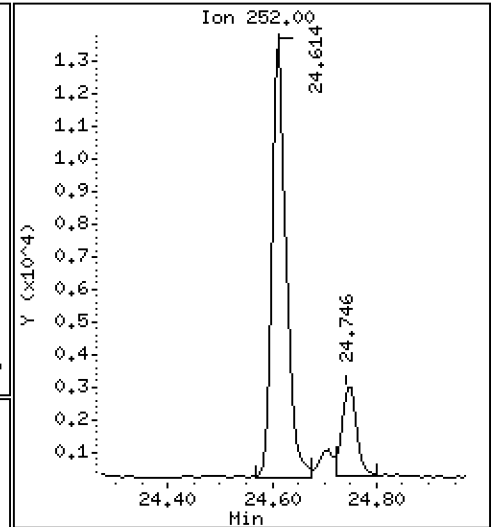
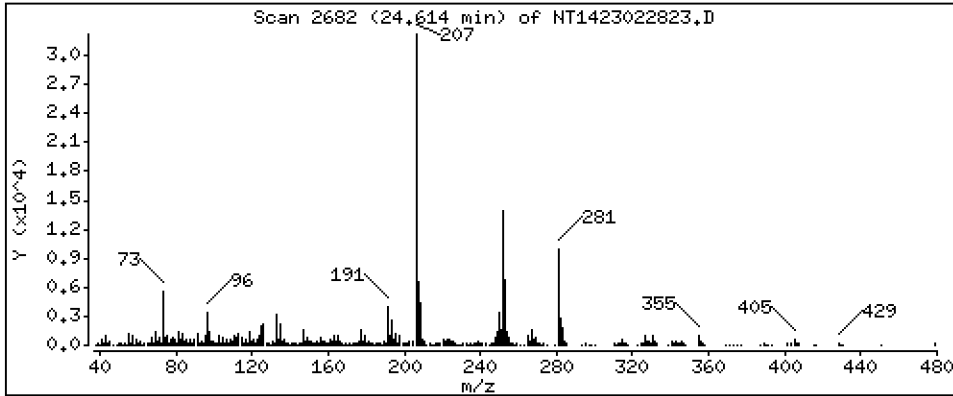
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2207 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

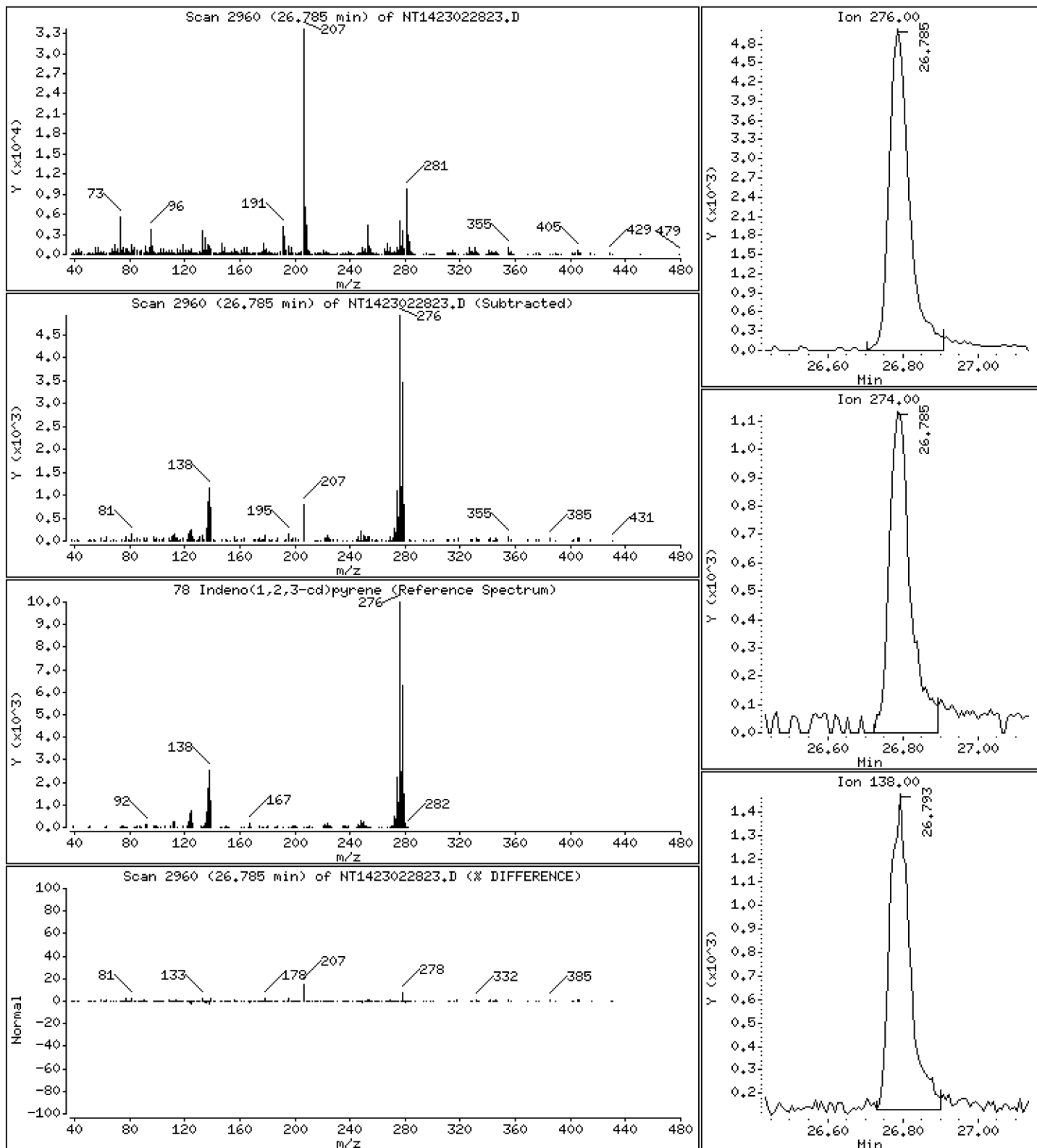
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,1309 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

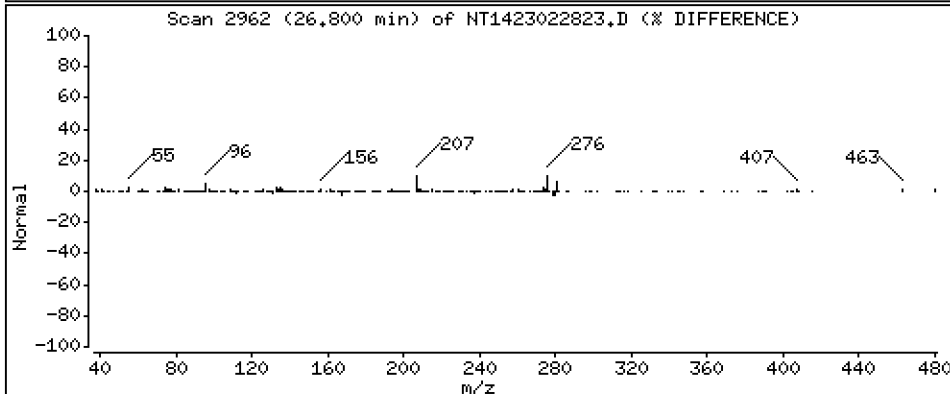
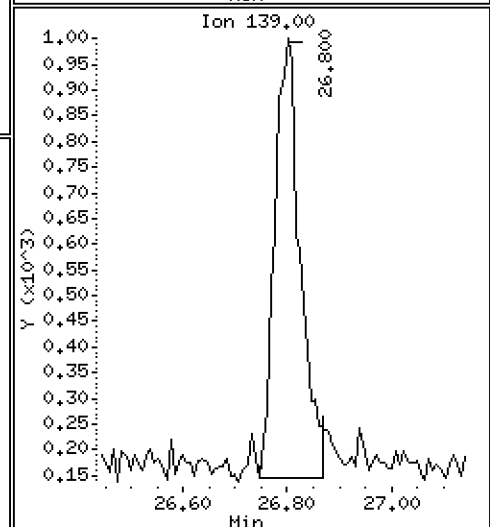
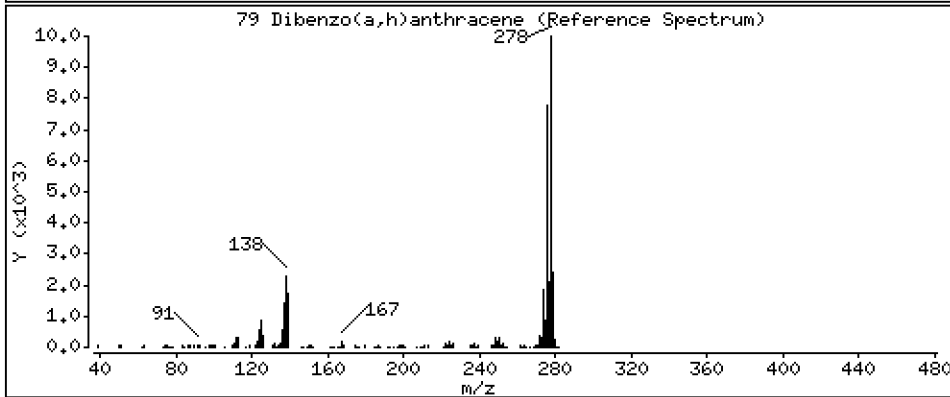
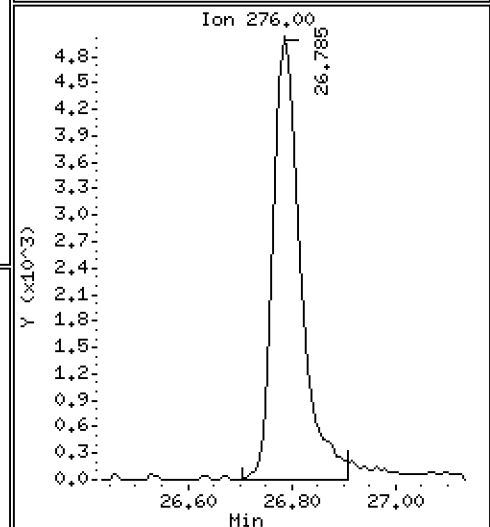
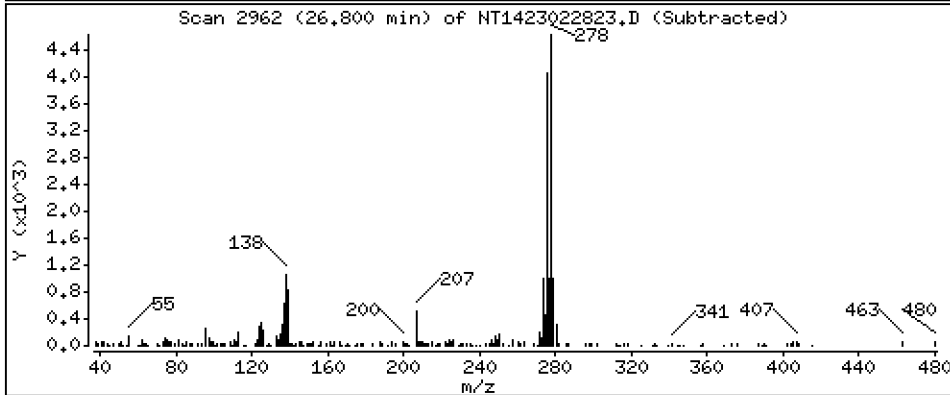
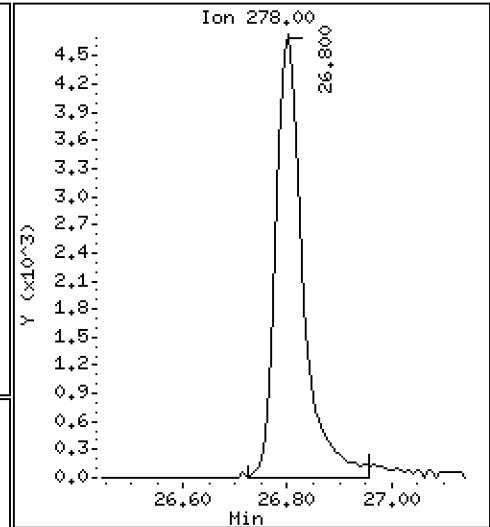
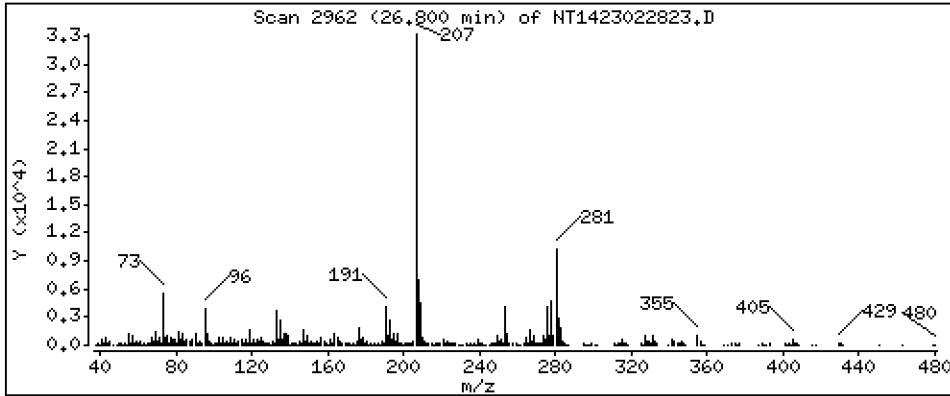
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1429 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

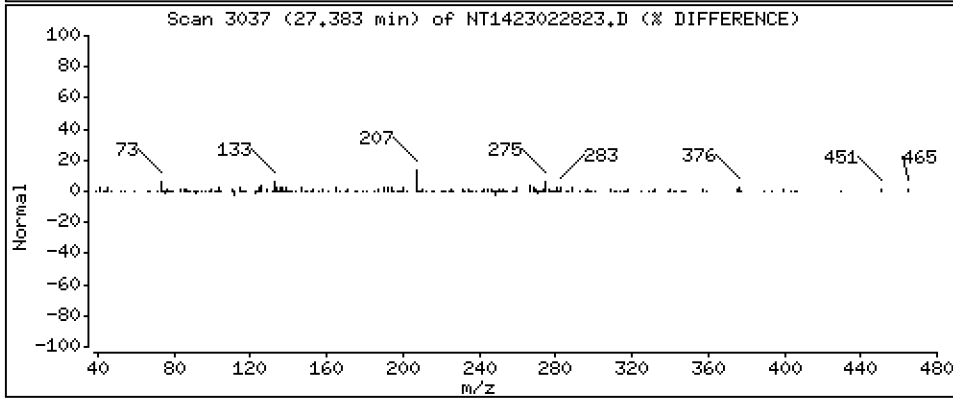
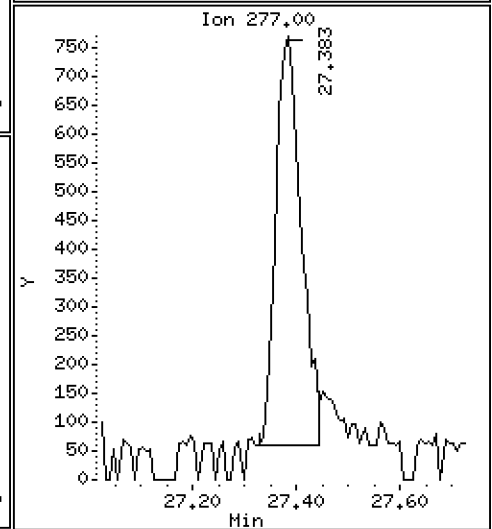
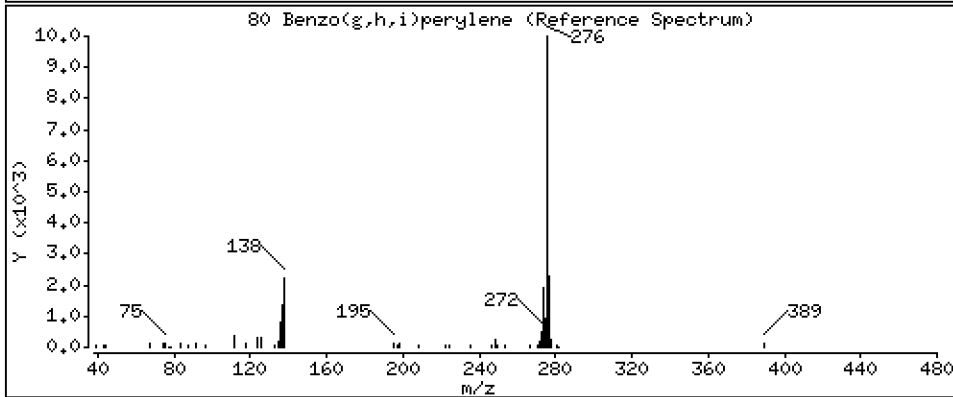
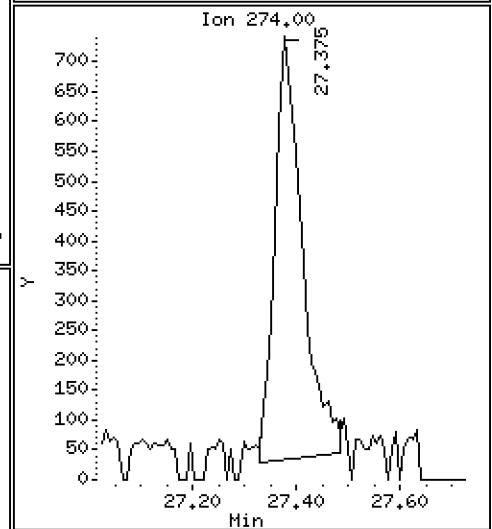
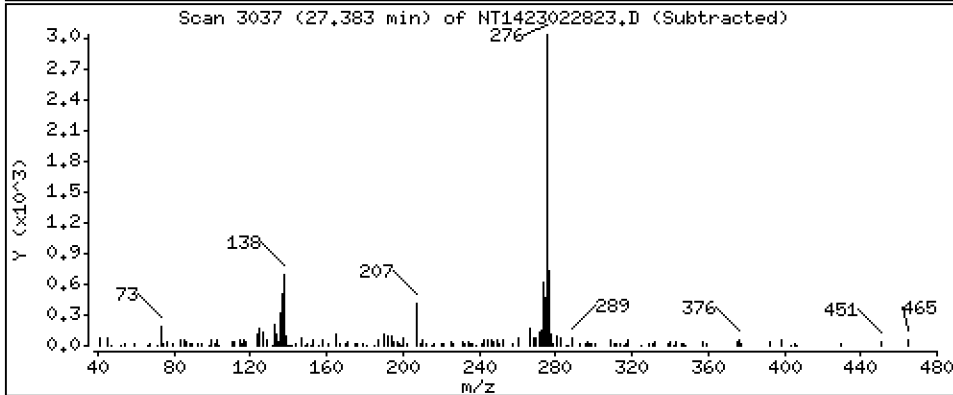
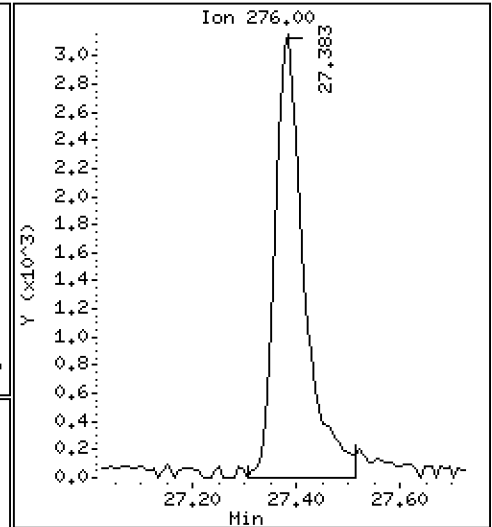
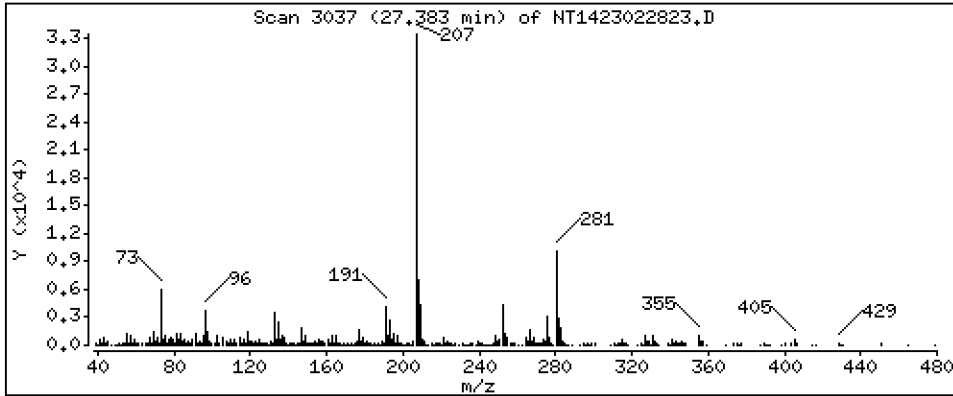
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,09952 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

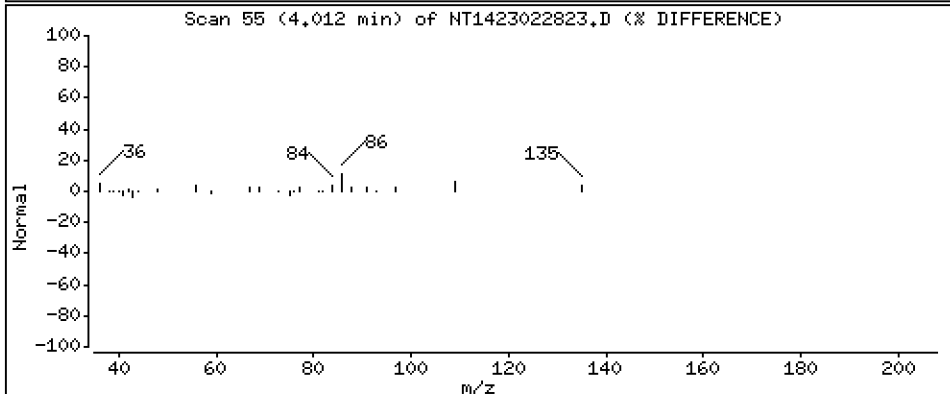
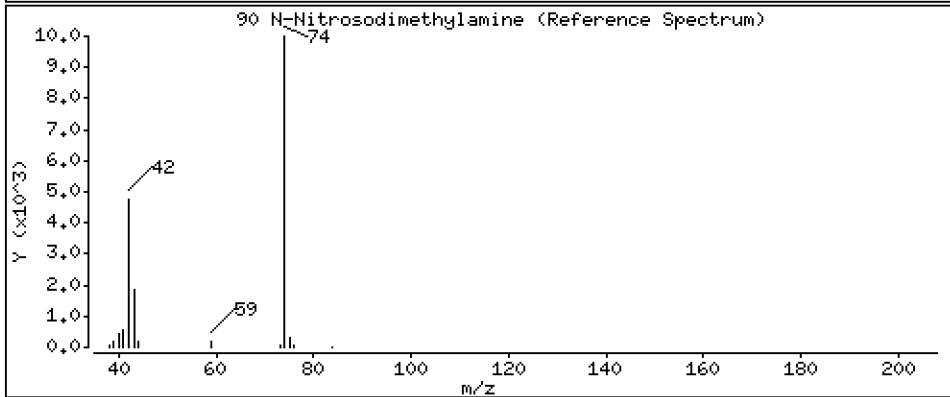
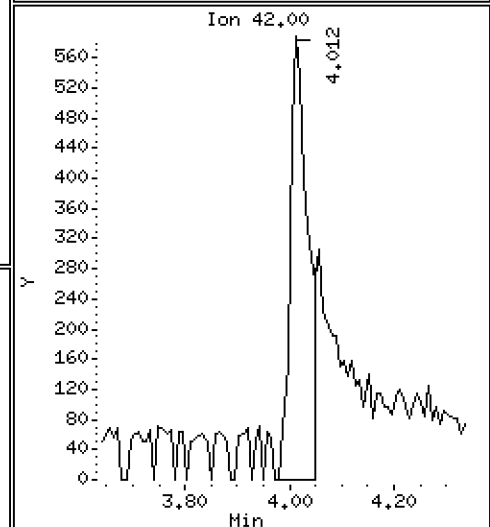
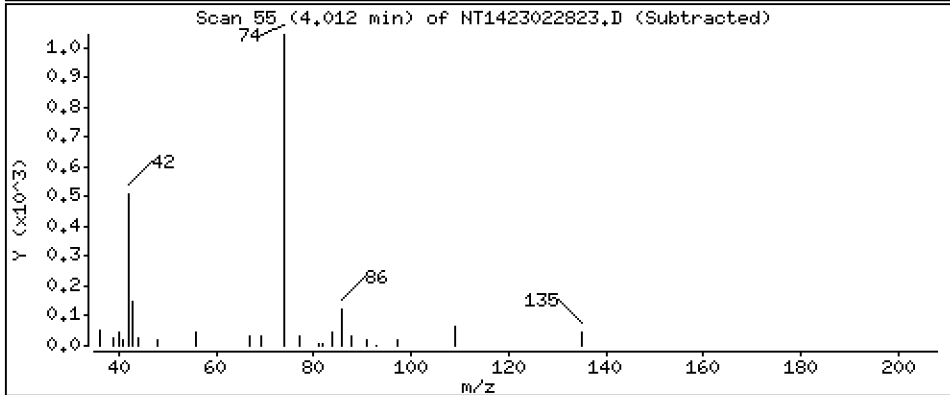
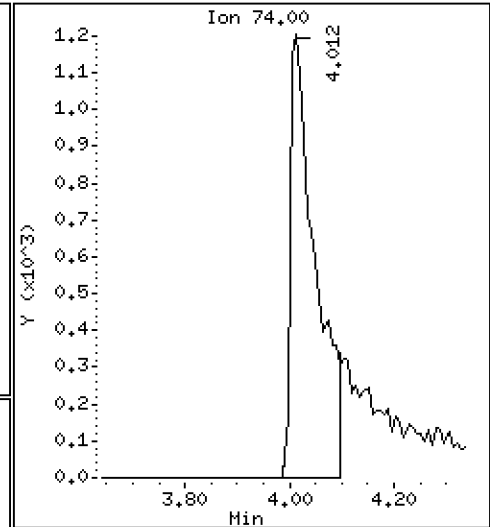
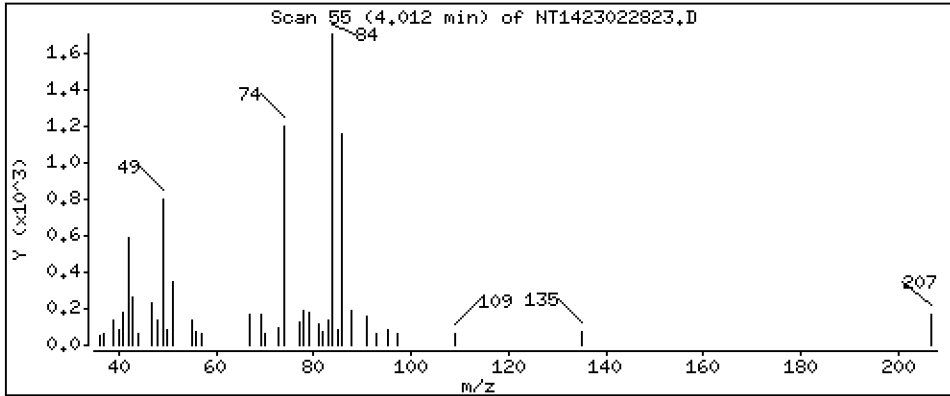
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,1735 ug/mL





Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

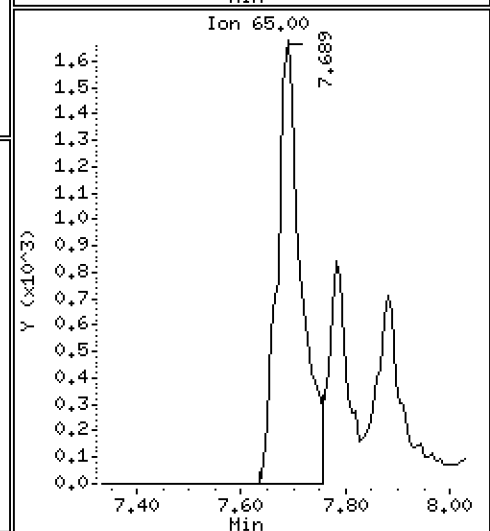
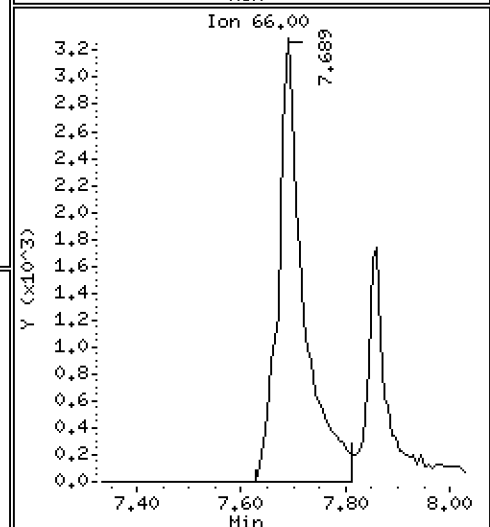
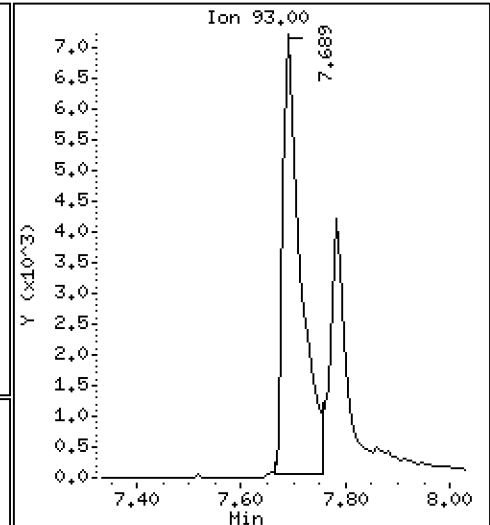
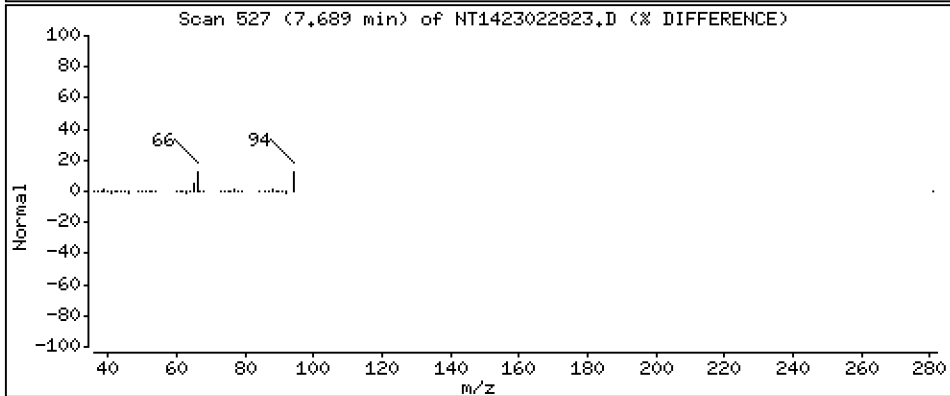
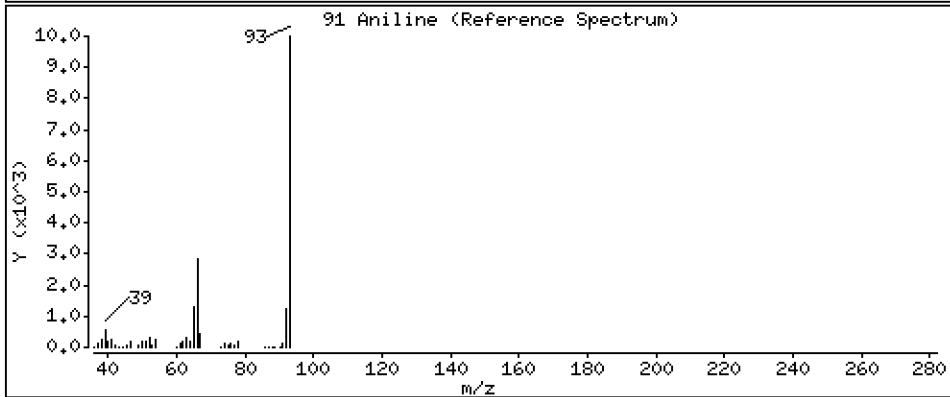
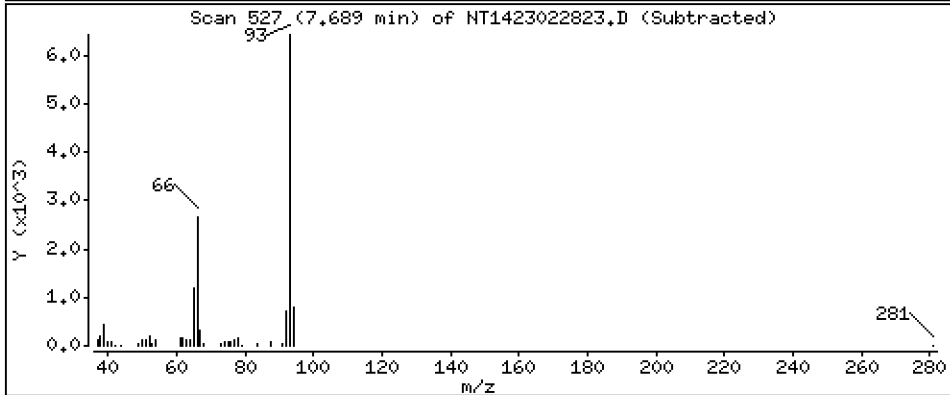
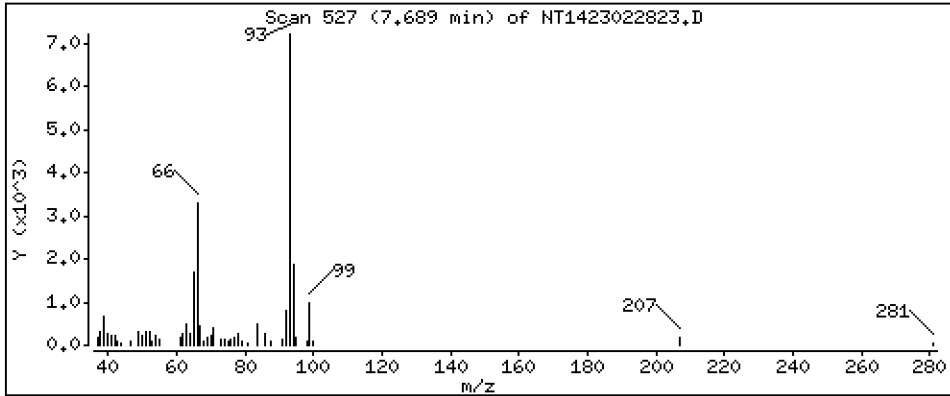
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,3051 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

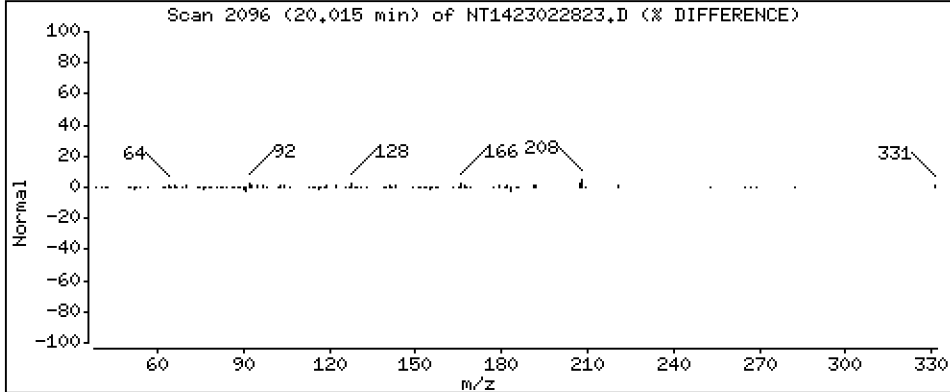
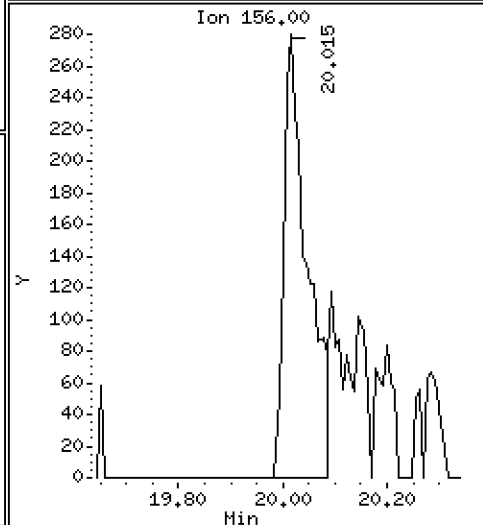
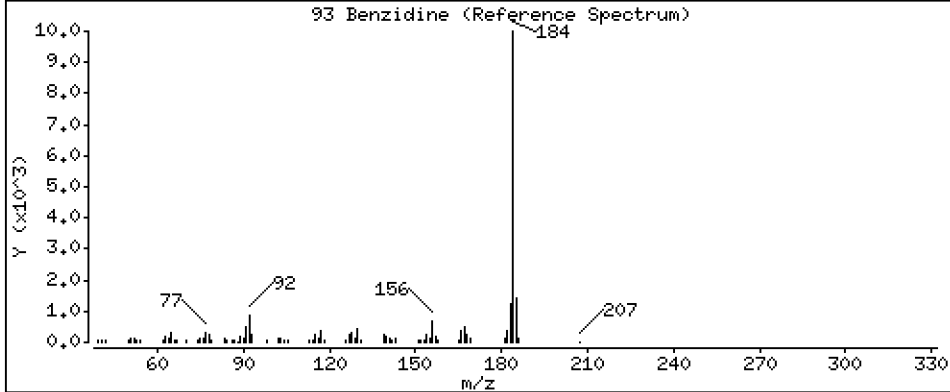
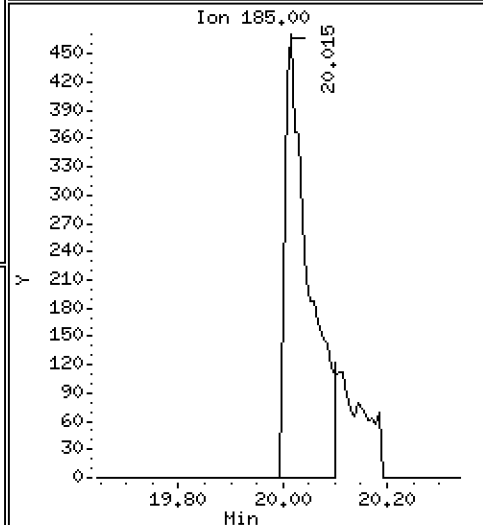
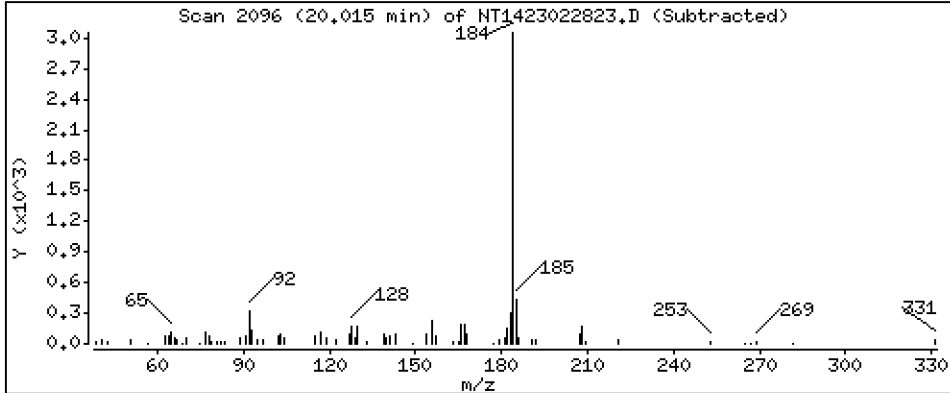
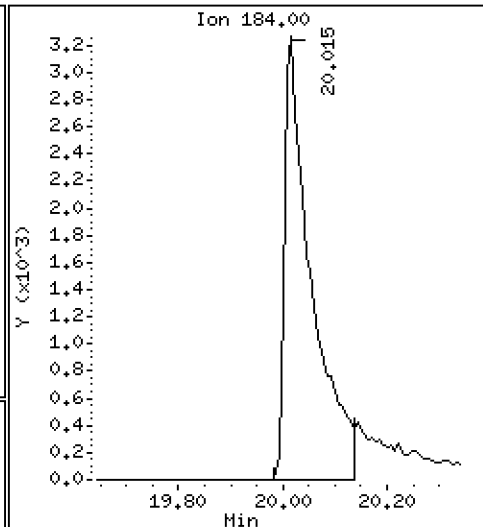
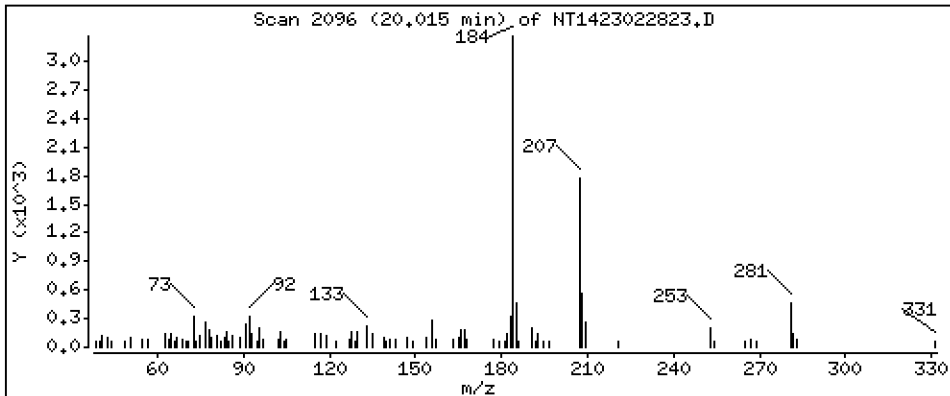
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,2301 ug/mL

93 Benzidine



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

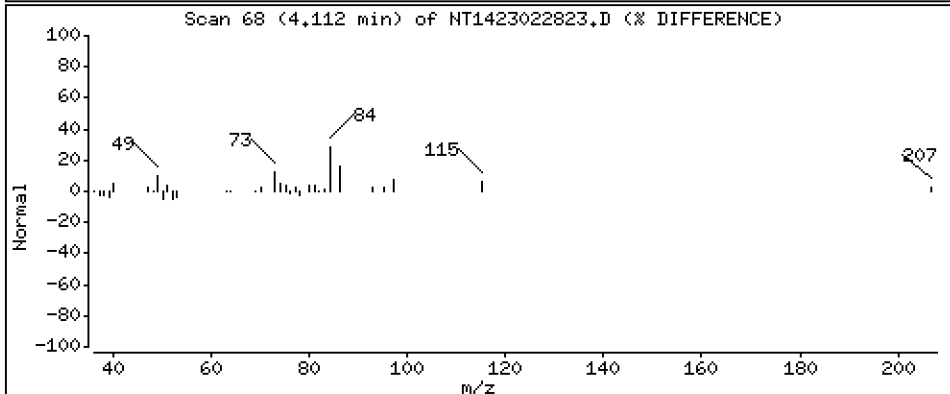
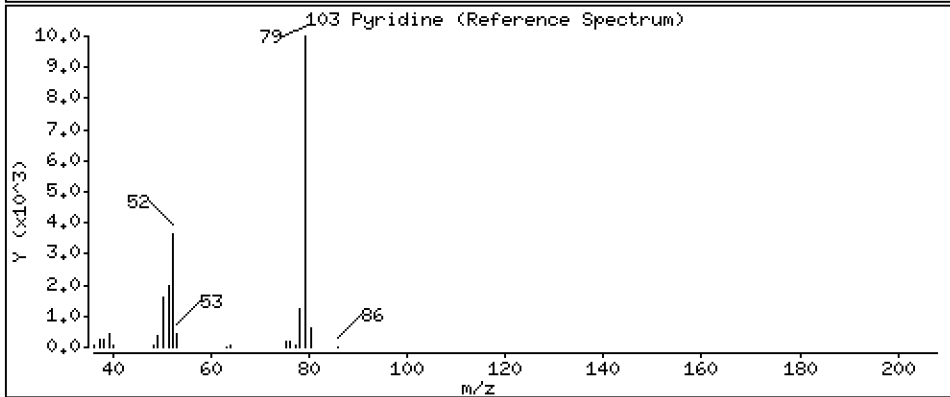
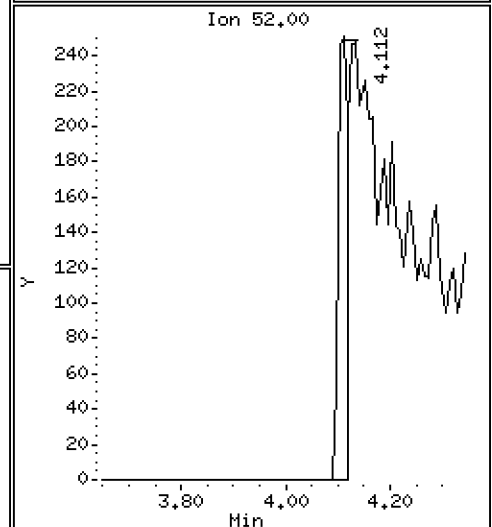
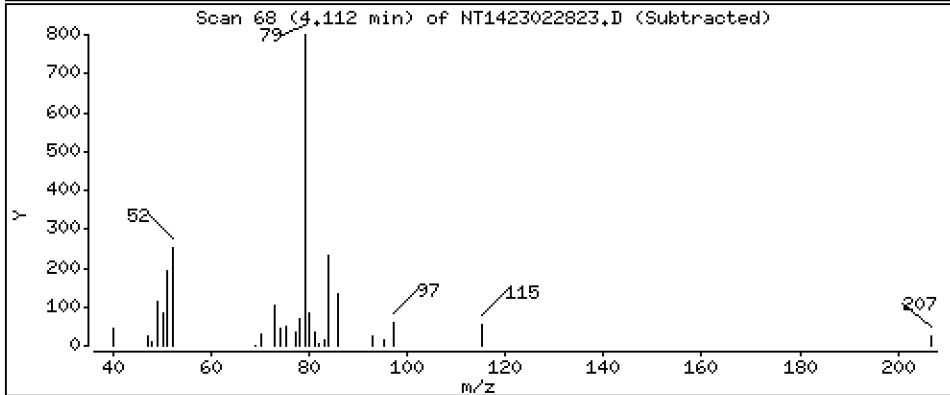
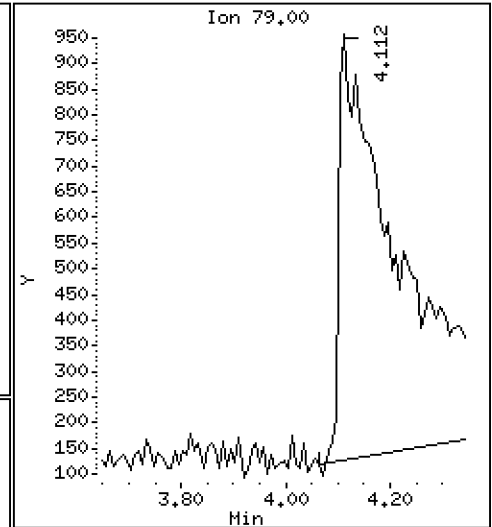
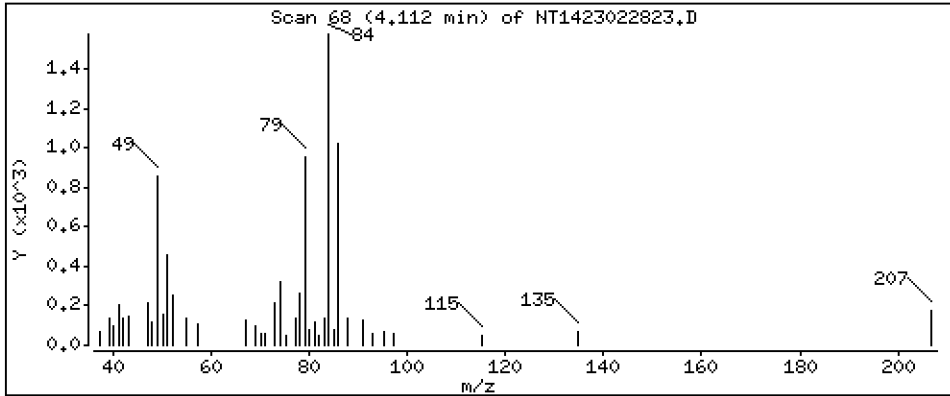
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,1253 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

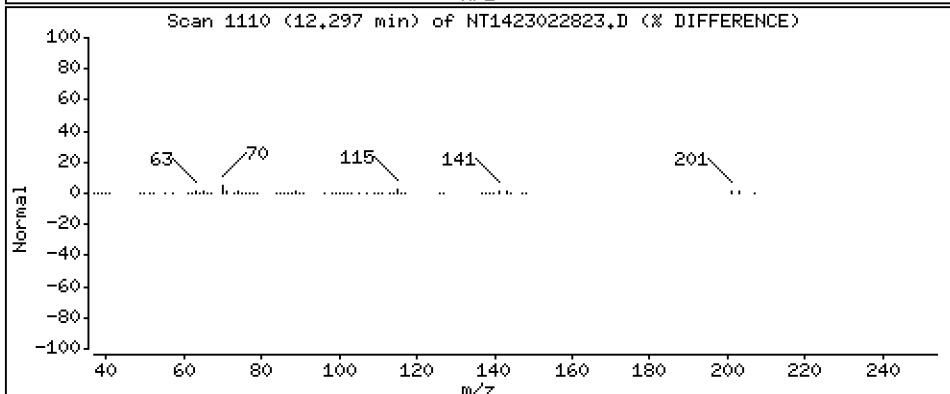
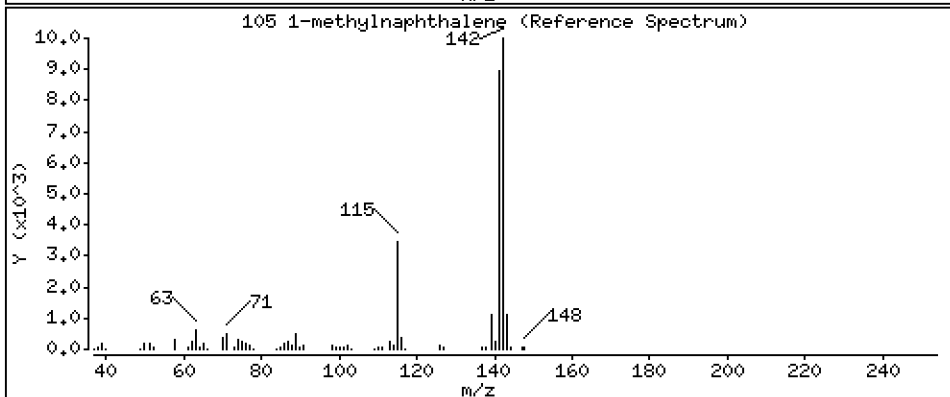
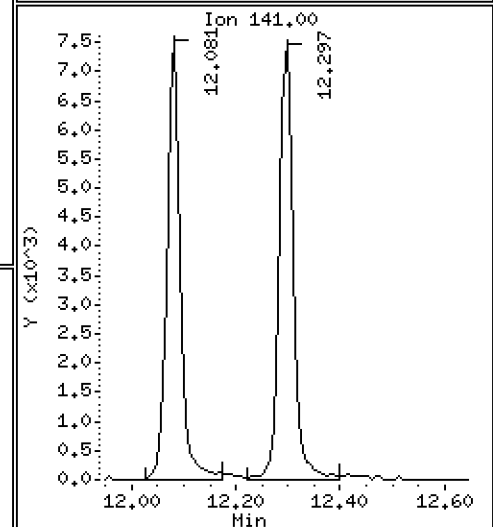
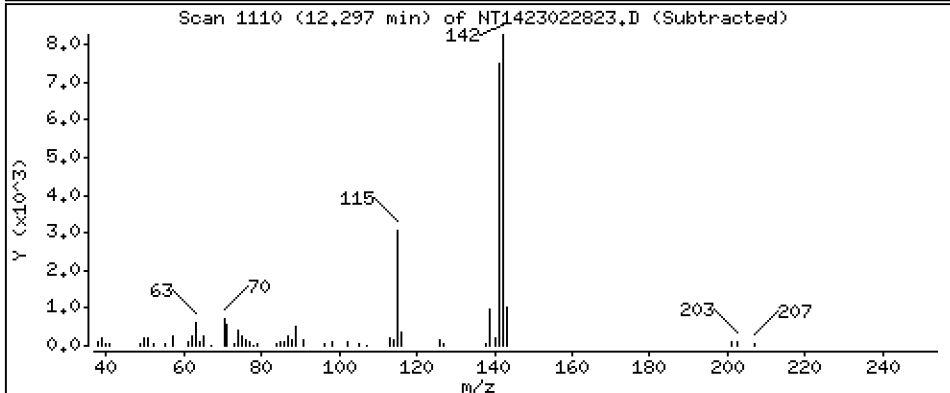
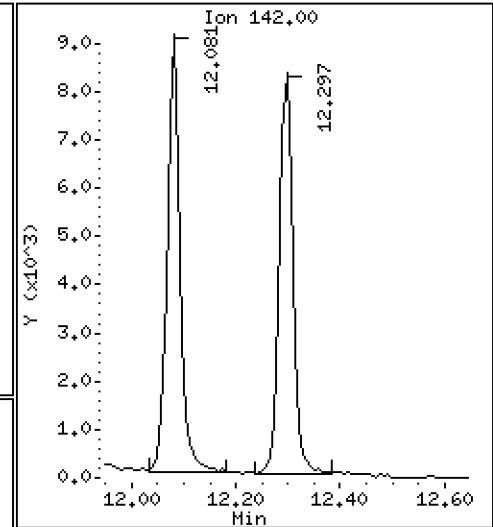
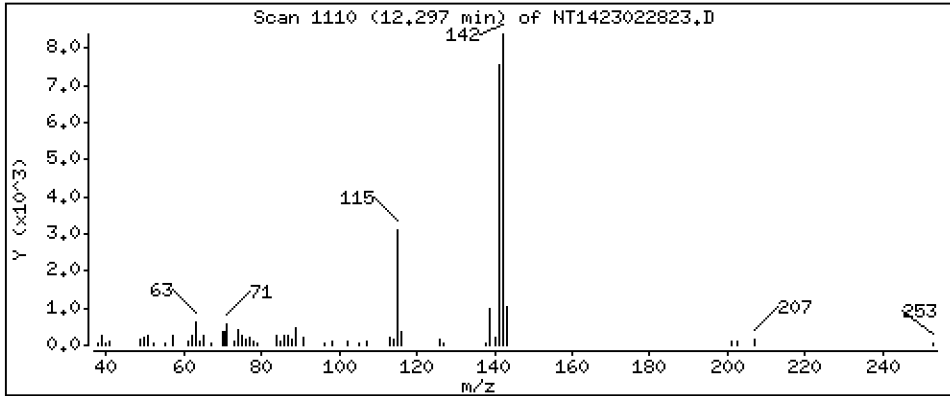
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,1951 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

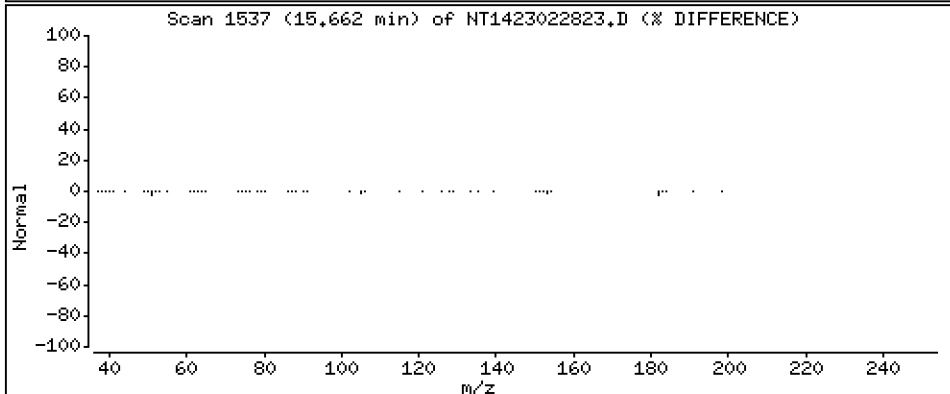
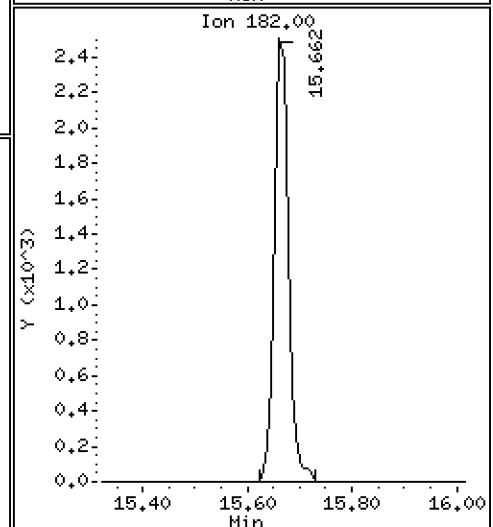
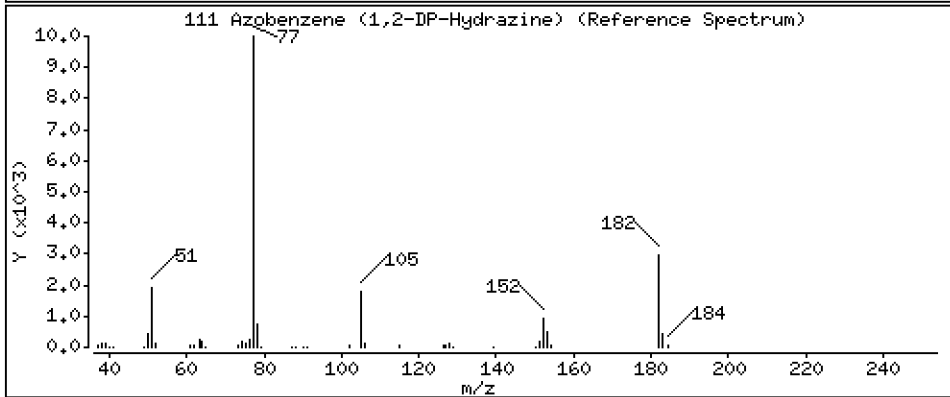
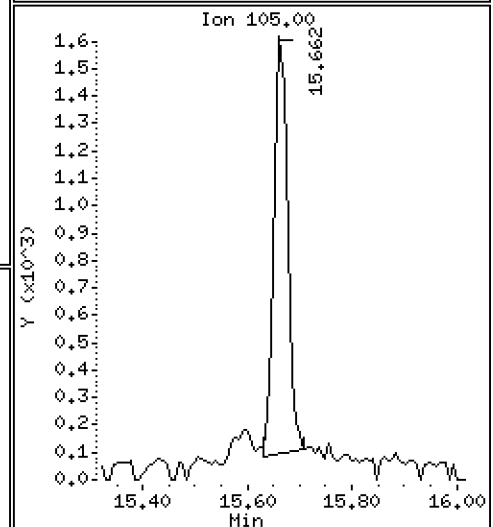
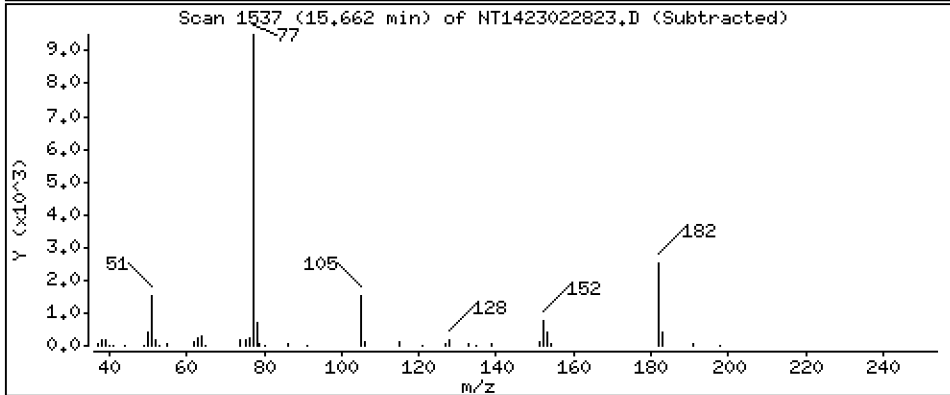
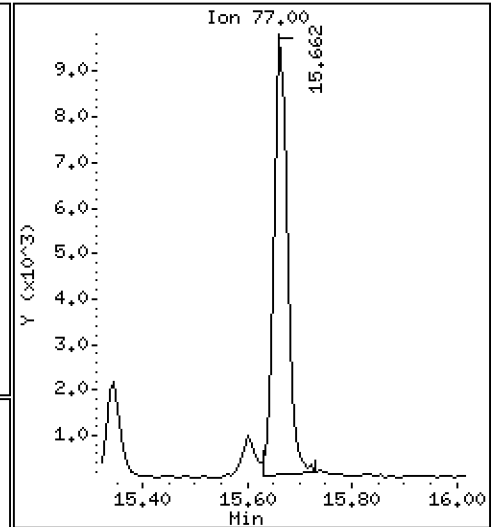
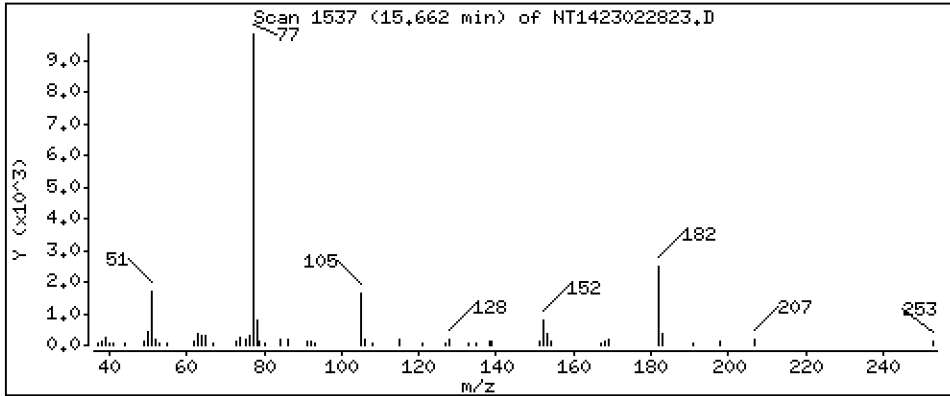
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,2082 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

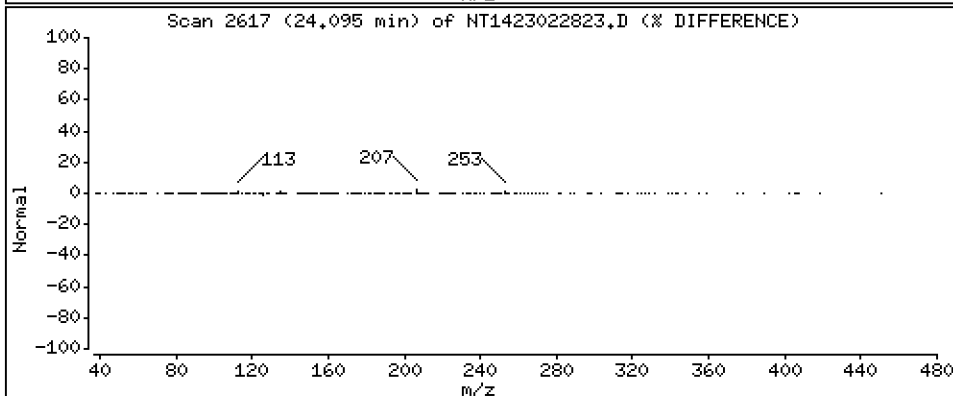
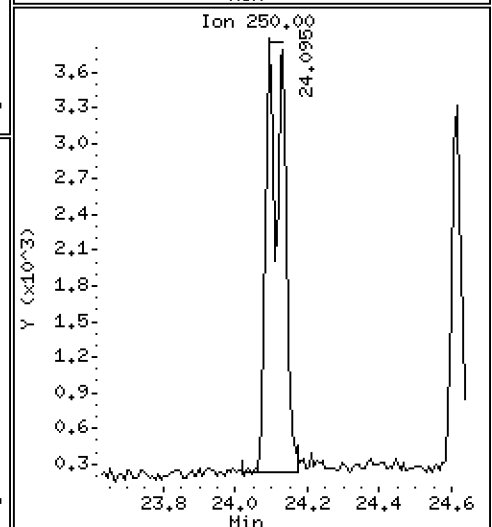
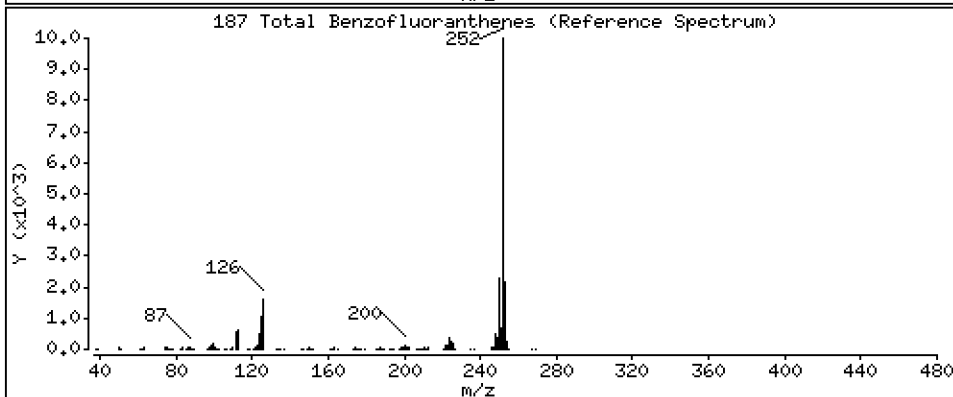
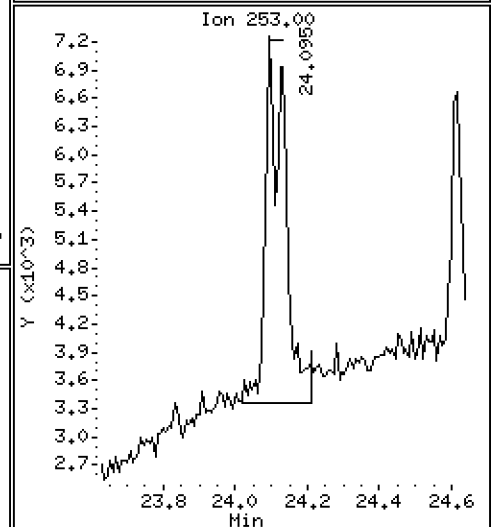
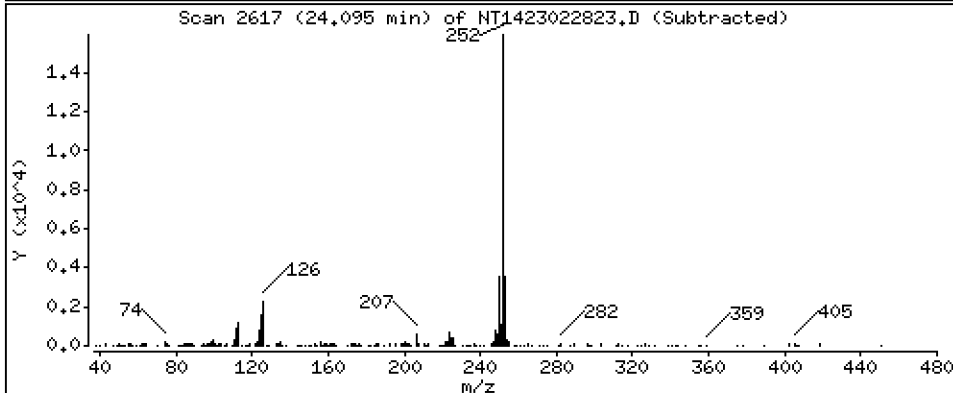
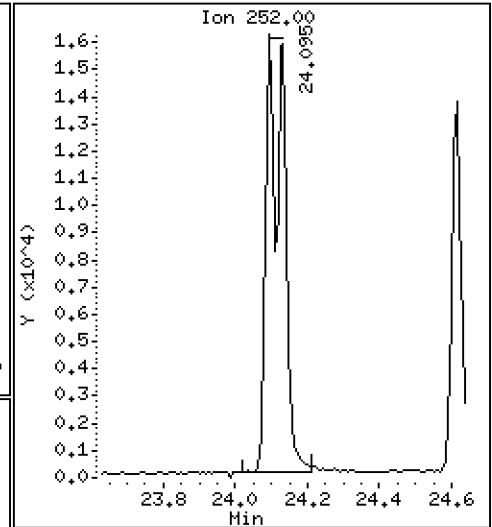
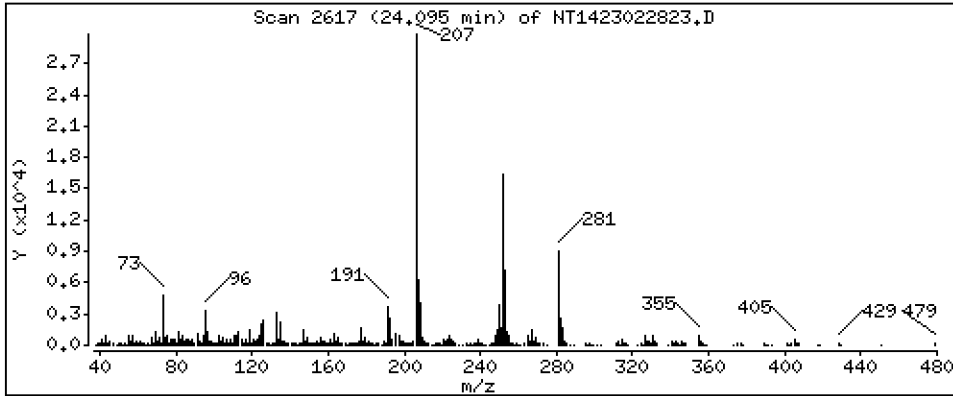
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,4192 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

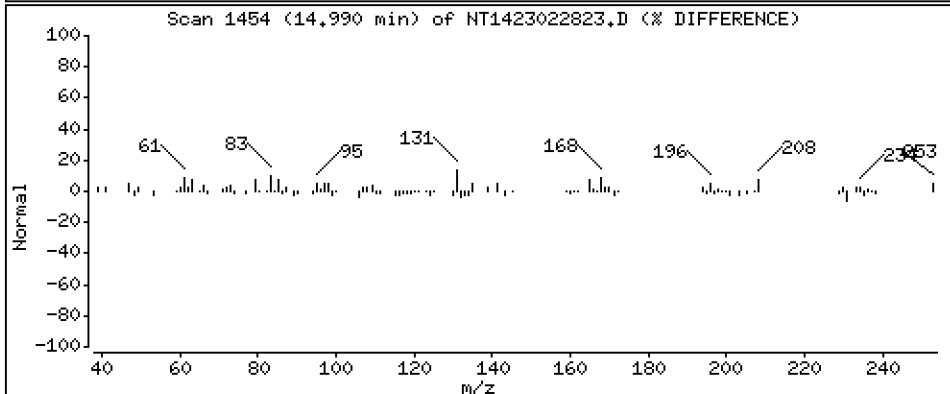
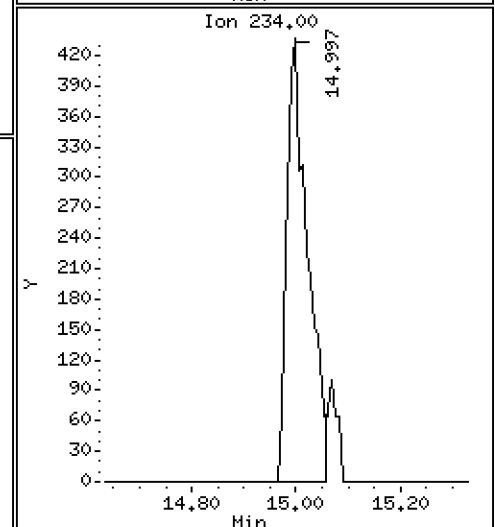
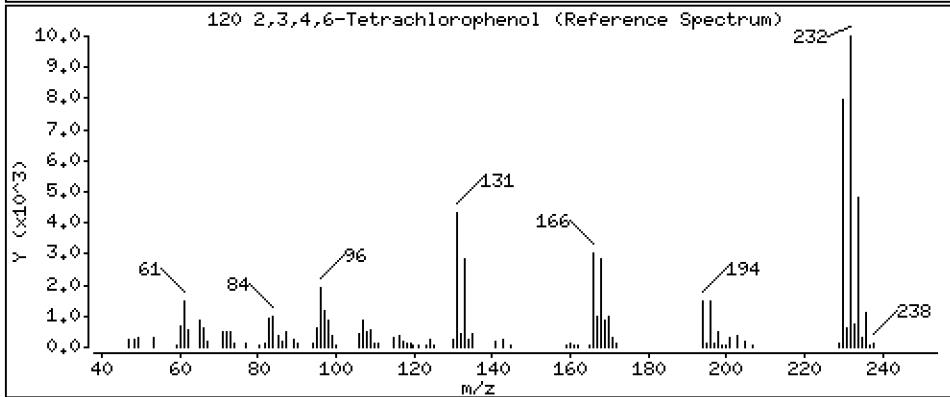
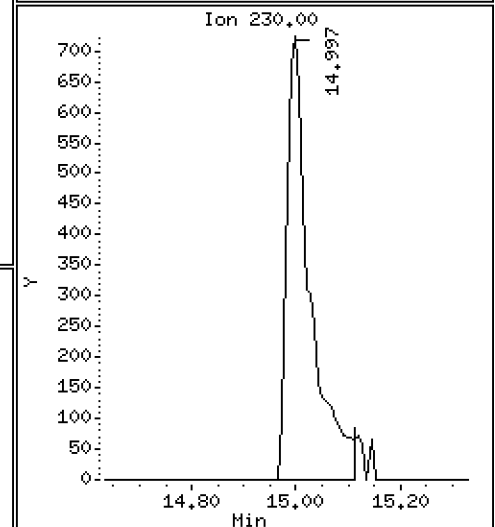
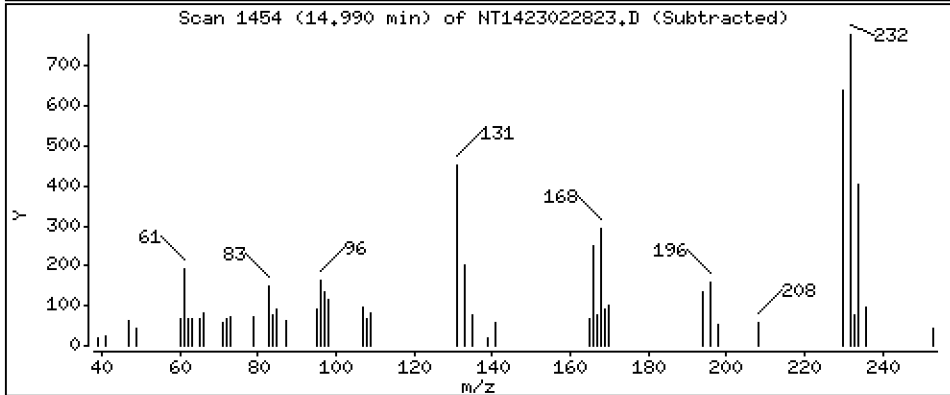
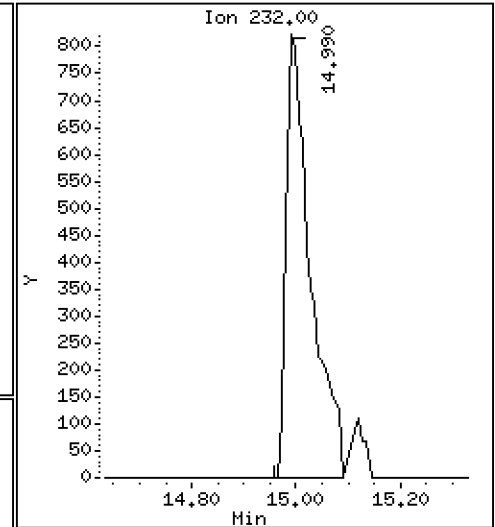
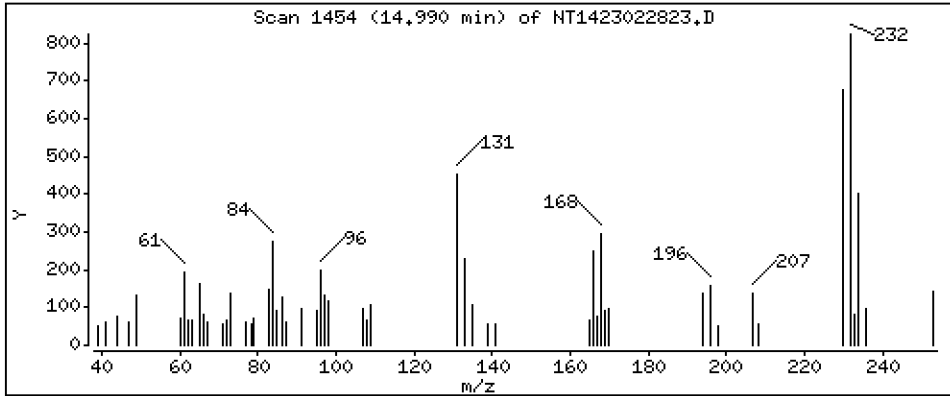
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1006 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022823.D  
 Lab Smp Id: SLB0374-LCV1  
 Inj Date : 01-MAR-2023 14:51 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-LCV1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 11-Mar-2023 09:11 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 8  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |             |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-------------|
|                                 |       |     |                        |        |         |          | ON-COLUMN      | FINAL       |
|                                 | MASS  |     |                        |        |         |          | (ug/mL)        | (ug/mL)     |
| \$ 1 2-Fluorophenol             | 112   |     | 6.066                  | 6.050  | (0.741) | 6770     | 0.21764        | 0.2176      |
| \$ 2 Phenol-d5                  | 99    |     | 7.650                  | 7.634  | (0.934) | 11118    | 0.25175        | 0.2517      |
| 3 Phenol                        | 94    |     | 7.673                  | 7.657  | (0.937) | 11406    | 0.21646        | 0.2165 (M)  |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.858                  | 7.850  | (0.959) | 10198    | 0.27157        | 0.2716      |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.781                  | 7.781  | (0.950) | 7424     | 0.19947        | 0.1995      |
| 6 2-Chlorophenol                | 128   |     | 7.881                  | 7.874  | (0.962) | 6882     | 0.17731        | 0.1773      |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.129                  | 8.129  | (0.992) | 9026     | 0.21101        | 0.2110      |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.191                  | 8.191  | (1.000) | 114717   | 4.00000        |             |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.222                  | 8.222  | (1.004) | 8579     | 0.20293        | 0.2029      |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.548                  | 8.548  | (1.044) | 5531     | 0.19564        | 0.1956      |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.571                  | 8.571  | (1.046) | 8862     | 0.21862        | 0.2186      |
| 11 Benzyl alcohol               | 108   |     | 8.556                  | 8.501  | (1.045) | 2291     | 0.09976        | 0.09976 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.796                  | 8.789  | (1.074) | 2337     | 0.21377        | 0.2138 (M)  |
| 13 2-Methylphenol               | 108   |     | 8.758                  | 8.742  | (1.069) | 5805     | 0.17438        | 0.1744      |
| 17 Hexachloroethane             | 117   |     | 9.146                  | 9.146  | (1.117) | 2371     | 0.14934        | 0.1493      |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.045                  | 9.053  | (1.104) | 5107     | 0.20149        | 0.2015      |
| 15 4-Methylphenol               | 108   |     | 9.037                  | 9.014  | (1.103) | 5113     | 0.13179        | 0.1318      |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.293                  | 9.285  | (0.873) | 7875     | 0.19743        | 0.1974      |
| 19 Nitrobenzene                 | 77    |     | 9.324                  | 9.316  | (0.876) | 7056     | 0.18408        | 0.1841      |
| 20 Isophorone                   | 82    |     | 9.774                  | 9.774  | (0.918) | 10848    | 0.18106        | 0.1811      |
| 21 2-Nitrophenol                | 139   |     | 9.960                  | 9.945  | (0.935) | 2738     | 0.13803        | 0.1380 (M)  |
| 22 2,4-Dimethylphenol           | 107   |     | 10.046                 | 10.038 | (0.943) | 14438    | 0.41318        | 0.4132      |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.232                 | 10.224 | (0.961) | 7543     | 0.19574        | 0.1957      |
| 24 Benzoic acid                 | 105   |     | Compound Not Detected. |        |         |          |                |             |
| 25 2,4-Dichlorophenol           | 162   |     | 10.425                 | 10.402 | (0.979) | 10268    | 0.28957        | 0.2896      |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.572                 | 10.572 | (0.993) | 8038     | 0.20354        | 0.2035      |
| * 27 Naphthalene-d8             | 136   |     | 10.649                 | 10.649 | (1.000) | 407764   | 4.00000        |             |
| 28 Naphthalene                  | 128   |     | 10.688                 | 10.688 | (1.004) | 23230    | 0.21358        | 0.2136      |
| 29 4-Chloroaniline              | 127   |     | 10.865                 | 10.850 | (1.020) | 14621    | 0.31429        | 0.3143      |
| 30 Hexachlorobutadiene          | 225   |     | 11.066                 | 11.066 | (1.039) | 4515     | 0.18736        | 0.1874      |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.863                 | 11.840 | (1.114) | 9574     | 0.30438        | 0.3044      |
| 32 2-Methylnaphthalene          | 142   |     | 12.080                 | 12.080 | (1.134) | 15634    | 0.19410        | 0.1941      |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                |             |



| Compounds                         | QUANT SIG |                        |        |         |          | CONCENTRATIONS       |                  |  |
|-----------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|--|
|                                   | MASS      | RT                     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |  |
| 34 2,4,6-Trichlorophenol          | 196       | 12.722                 | 12.715 | (0.894) | 7090     | 0.31265              | 0.3126           |  |
| 35 2,4,5-Trichlorophenol          | 196       | 12.815                 | 12.792 | (0.900) | 6778     | 0.27644              | 0.2764           |  |
| § 36 2-Fluorobiphenyl             | 172       | 12.869                 | 12.877 | (0.904) | 18685    | 0.20679              | 0.2068           |  |
| 37 2-Chloronaphthalene            | 162       | 13.063                 | 13.063 | (0.918) | 15044    | 0.20770              | 0.2077           |  |
| 38 2-Nitroaniline                 | 65        | 13.365                 | 13.349 | (0.939) | 6287     | 0.33281              | 0.3328           |  |
| 39 Dimethylphthalate              | 163       | 13.798                 | 13.798 | (0.970) | 15532    | 0.21271              | 0.2127           |  |
| 40 Acenaphthylene                 | 152       | 13.914                 | 13.922 | (0.978) | 23495    | 0.22106              | 0.2211           |  |
| 41 2,6-Dinitrotoluene             | 165       | 13.922                 | 13.922 | (0.978) | 6369     | 0.37221              | 0.3722           |  |
| * 42 Acenaphthene-d10             | 164       | 14.232                 | 14.232 | (1.000) | 232149   | 4.00000              |                  |  |
| 43 3-Nitroaniline                 | 138       | 14.224                 | 14.201 | (0.999) | 3874     | 0.22089              | 0.2209           |  |
| 44 Acenaphthene                   | 153       | 14.293                 | 14.301 | (1.004) | 14297    | 0.21010              | 0.2101           |  |
| 45 2,4-Dinitrophenol              | 184       | Compound Not Detected. |        |         |          |                      |                  |  |
| 46 Dibenzofuran                   | 168       | 14.626                 | 14.626 | (1.028) | 21483    | 0.19841              | 0.1984           |  |
| 47 4-Nitrophenol                  | 109       | Compound Not Detected. |        |         |          |                      |                  |  |
| 48 2,4-Dinitrotoluene             | 165       | 14.726                 | 14.726 | (1.035) | 6886     | 0.27954              | 0.2795           |  |
| 50 Diethylphthalate               | 149       | 15.237                 | 15.252 | (1.071) | 14673    | 0.21488              | 0.2149           |  |
| 49 Fluorene                       | 166       | 15.329                 | 15.330 | (1.077) | 19157    | 0.20999              | 0.2100           |  |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.345                 | 15.345 | (1.078) | 9764     | 0.20115              | 0.2012           |  |
| 52 4-Nitroaniline                 | 138       | 15.499                 | 15.469 | (1.089) | 4718     | 0.27139              | 0.2714 (M)       |  |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.576                 | 15.553 | (0.904) | 1986     | 0.13758              | 0.1376 (M)       |  |
| 54 N-Nitrosodiphenylamine         | 169       | 15.600                 | 15.607 | (0.905) | 11588    | 0.21230              | 0.2123           |  |
| § 55 2,4,6-Tribromophenol         | 330       | 15.877                 | 15.870 | (1.116) | 2586     | 0.20743              | 0.2074           |  |
| 56 4-Bromophenyl-phenylether      | 248       | 16.340                 | 16.340 | (0.948) | 4846     | 0.20194              | 0.2019           |  |
| 57 Hexachlorobenzene              | 284       | 16.626                 | 16.626 | (0.965) | 5642     | 0.21385              | 0.2138           |  |
| 58 Pentachlorophenol              | 266       | 17.044                 | 17.005 | (0.989) | 893      | 0.07199              | 0.07199 (M)      |  |
| * 59 Phenanthrene-d10             | 188       | 17.237                 | 17.237 | (1.000) | 434349   | 4.00000              |                  |  |
| 60 Phenanthrene                   | 178       | 17.284                 | 17.291 | (1.003) | 23812    | 0.20608              | 0.2061           |  |
| 61 Anthracene                     | 178       | 17.376                 | 17.384 | (1.008) | 22351    | 0.20462              | 0.2046           |  |
| 62 Carbazole                      | 167       | 17.740                 | 17.732 | (1.029) | 17760    | 0.18551              | 0.1855           |  |
| 63 Di-n-butylphthalate            | 149       | 18.583                 | 18.583 | (1.078) | 22145    | 0.17907              | 0.1791           |  |
| 64 Fluoranthene                   | 202       | 19.705                 | 19.705 | (0.881) | 24042    | 0.19724              | 0.1972           |  |
| 65 Pyrene                         | 202       | 20.139                 | 20.139 | (0.901) | 24983    | 0.19440              | 0.1944           |  |
| § 66 Terphenyl-d14                | 244       | 20.464                 | 20.471 | (0.915) | 19653    | 0.19862              | 0.1986           |  |
| 67 Butylbenzylphthalate           | 149       | 21.431                 | 21.439 | (0.958) | 9295     | 0.20433              | 0.2043           |  |
| 68 Benzo(a)anthracene             | 228       | 22.330                 | 22.330 | (0.999) | 23837    | 0.22149              | 0.2215           |  |
| * 69 Chrysene-d12                 | 240       | 22.361                 | 22.361 | (1.000) | 321275   | 4.00000              |                  |  |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.322                 | 22.322 | (0.998) | 22528    | 0.73301              | 0.7330           |  |
| 71 Chrysene                       | 228       | 22.399                 | 22.407 | (1.002) | 22276    | 0.21535              | 0.2153           |  |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.492                 | 22.492 | (0.958) | 13193    | 0.18020              | 0.1802           |  |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.468                 | 23.468 | (1.000) | 479418   | 4.00000              |                  |  |
| 73 Di-n-octylphthalate            | 149       | 23.475                 | 23.483 | (1.000) | 25542    | 0.20235              | 0.2023           |  |
| 74 Benzo(b)fluoranthene           | 252       | 24.095                 | 24.103 | (0.975) | 25649    | 0.19560              | 0.1956           |  |
| 75 Benzo(k)fluoranthene           | 252       | 24.133                 | 24.134 | (0.977) | 31249    | 0.22089              | 0.2209           |  |
| 76 Benzo(a)pyrene                 | 252       | 24.614                 | 24.621 | (0.996) | 24825    | 0.22067              | 0.2207           |  |
| * 77 Perylene-d12                 | 264       | 24.706                 | 24.707 | (1.000) | 396889   | 4.00000              |                  |  |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.784                 | 26.784 | (1.084) | 18541    | 0.13093              | 0.1309           |  |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.800                 | 26.792 | (1.085) | 17192    | 0.14294              | 0.1429           |  |
| 80 Benzo(g,h,i)perylene           | 276       | 27.382                 | 27.375 | (1.108) | 12292    | 0.09952              | 0.09952          |  |
| 90 N-Nitrosodimethylamine         | 74        | 4.011                  | 3.988  | (0.490) | 4100     | 0.17348              | 0.1735           |  |
| 91 Aniline                        | 93        | 7.688                  | 7.681  | (0.939) | 16619    | 0.30511              | 0.3051           |  |
| 93 Benzidine                      | 184       | 20.015                 | 19.992 | (0.895) | 12002    | 0.23015              | 0.2301           |  |
| 103 Pyridine                      | 79        | 4.112                  | 3.996  | (0.502) | 8733     | 0.12528              | 0.1253 (M)       |  |
| 105 1-methylnaphthalene           | 142       | 12.297                 | 12.297 | (1.155) | 14470    | 0.19514              | 0.1951           |  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.661                 | 15.669 | (1.100) | 16319    | 0.20817              | 0.2082           |  |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 24.095 | 24.134 | (0.975) | 53777    | 0.41924              | 0.4192           |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 14.989 | 14.981 | (1.053) | 2627     | 0.10062              | 0.1006 (M)       |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023  
 Lab File ID: NT1423022823.D Calibration Time: 13:39  
 Lab Smp Id: SLB0374-LCV1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 125853   | 62927      | 251706  | 114717 | -8.85  |
| 27 Naphthalene-d8     | 454961   | 227481     | 909922  | 407764 | -10.37 |
| 42 Acenaphthene-d10   | 273779   | 136890     | 547558  | 232149 | -15.21 |
| 59 Phenanthrene-d10   | 520384   | 260192     | 1040768 | 434349 | -16.53 |
| 69 Chrysene-d12       | 399183   | 199592     | 798366  | 321275 | -19.52 |
| 134 Di-n-octylphthala | 602810   | 301405     | 1205620 | 479418 | -20.47 |
| 77 Perylene-d12       | 478887   | 239444     | 957774  | 396889 | -17.12 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.19     | 7.69     | 8.69  | 8.19   | -0.00 |
| 27 Naphthalene-d8     | 10.65    | 10.15    | 11.15 | 10.65  | -0.00 |
| 42 Acenaphthene-d10   | 14.23    | 13.73    | 14.73 | 14.23  | -0.00 |
| 59 Phenanthrene-d10   | 17.24    | 16.74    | 17.74 | 17.24  | -0.00 |
| 69 Chrysene-d12       | 22.36    | 21.86    | 22.86 | 22.36  | -0.00 |
| 134 Di-n-octylphthala | 23.47    | 22.97    | 23.97 | 23.47  | -0.00 |
| 77 Perylene-d12       | 24.71    | 24.21    | 25.21 | 24.71  | -0.00 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022823.D

Lab ID: SLB0374-LCV1  
nt14.i, ABN.m, 01-MAR-2023 14:51

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND       |
|-------|---------|--------|----------------|
| 1.045 | 1.038   | 0.0066 | Benzyl alcohol |
| 0.502 | 0.488   | 0.0141 | Pyridine       |

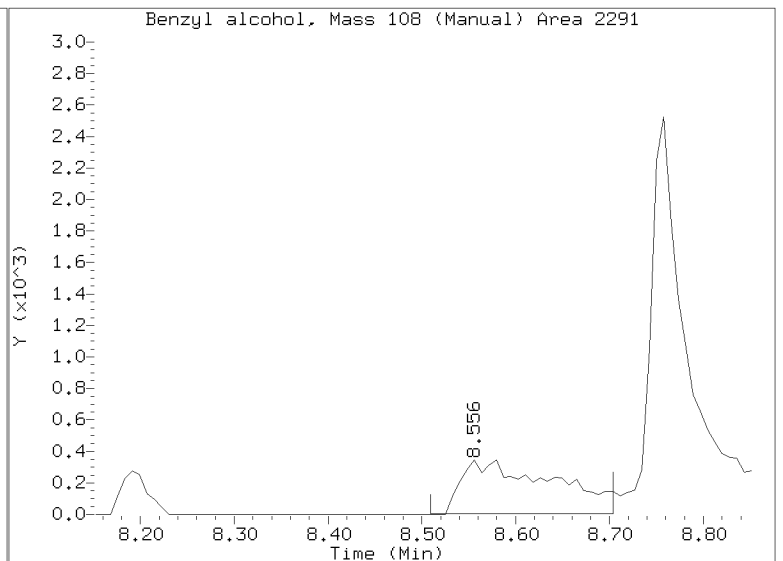
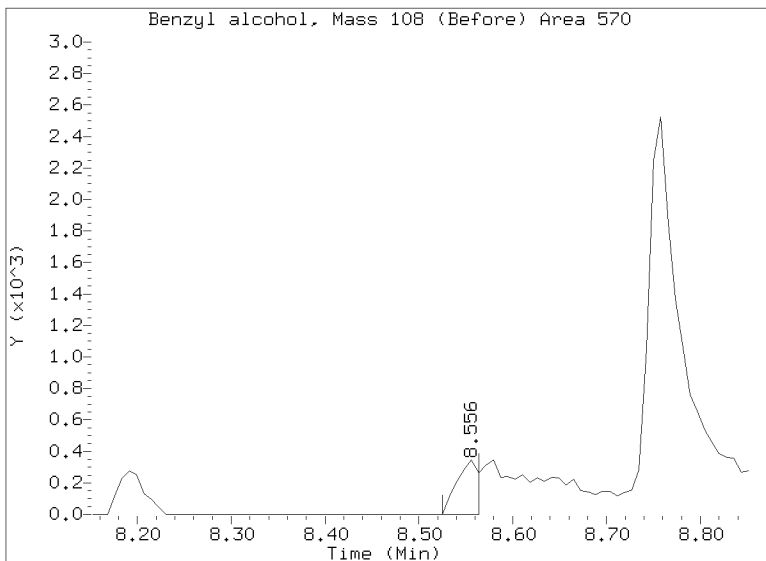
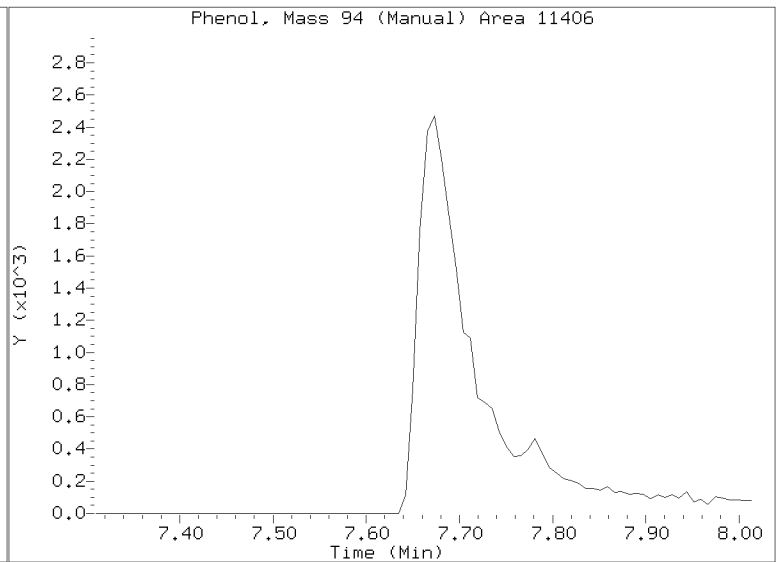
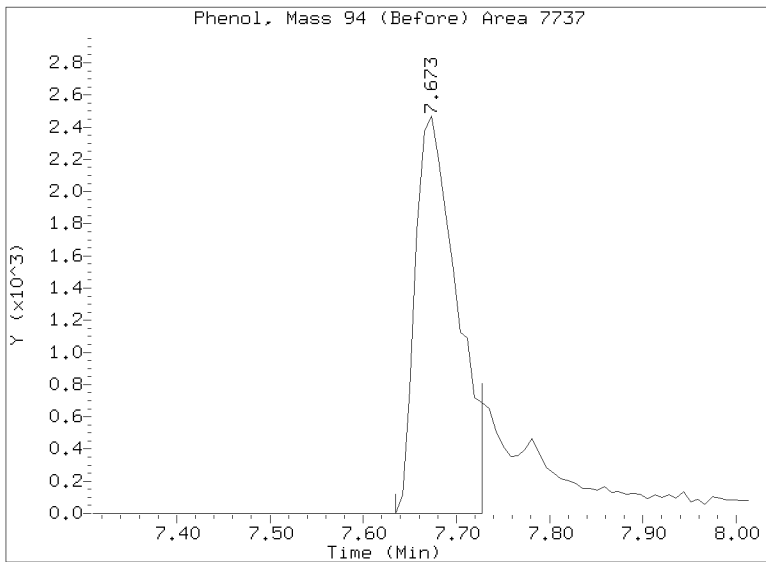
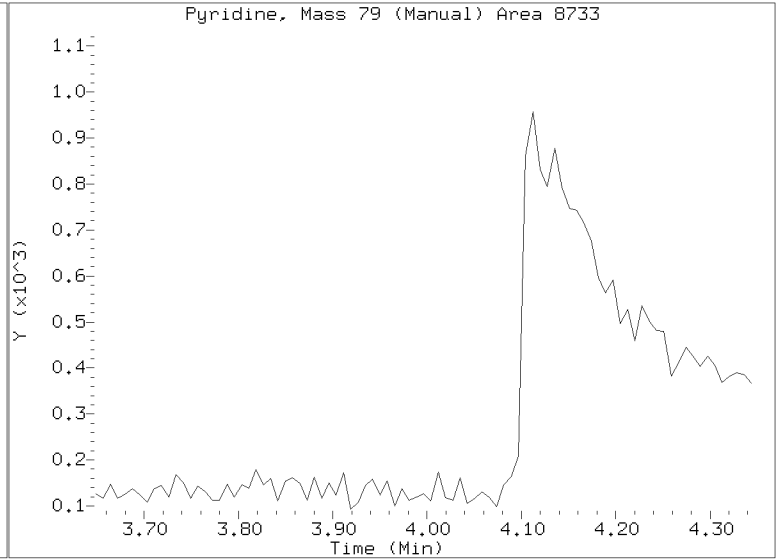
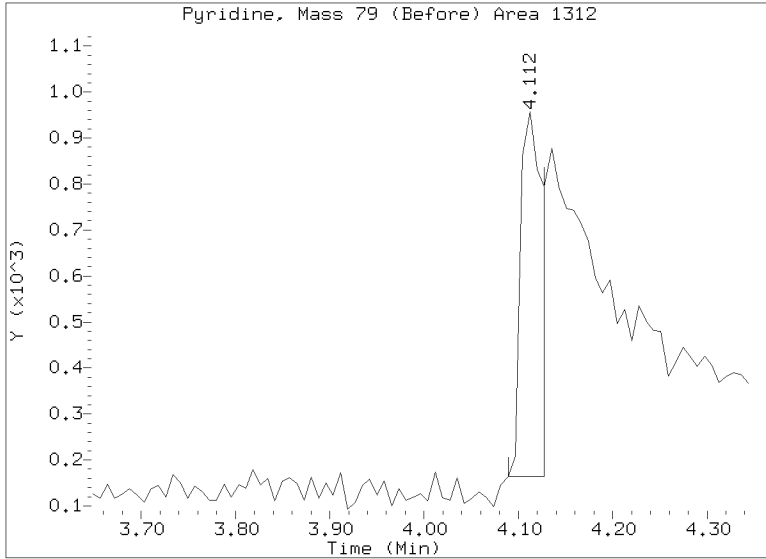
RRT check based on Ccal File: NT1423022821.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

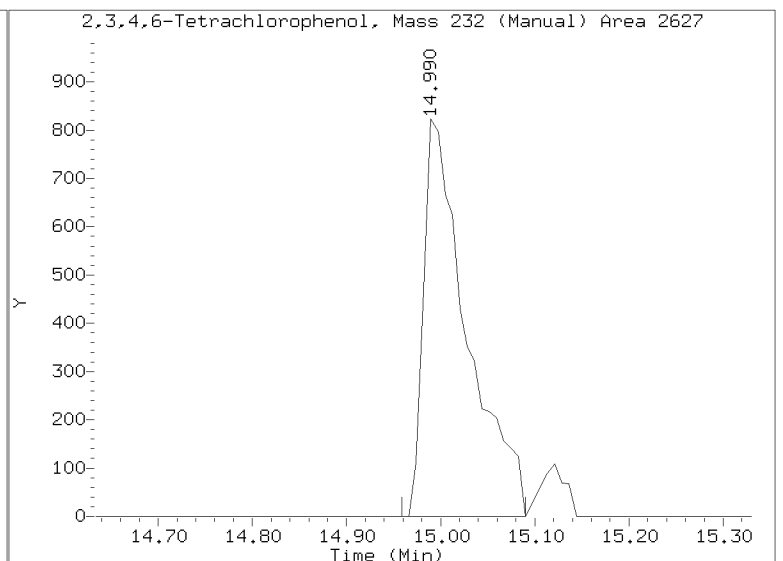
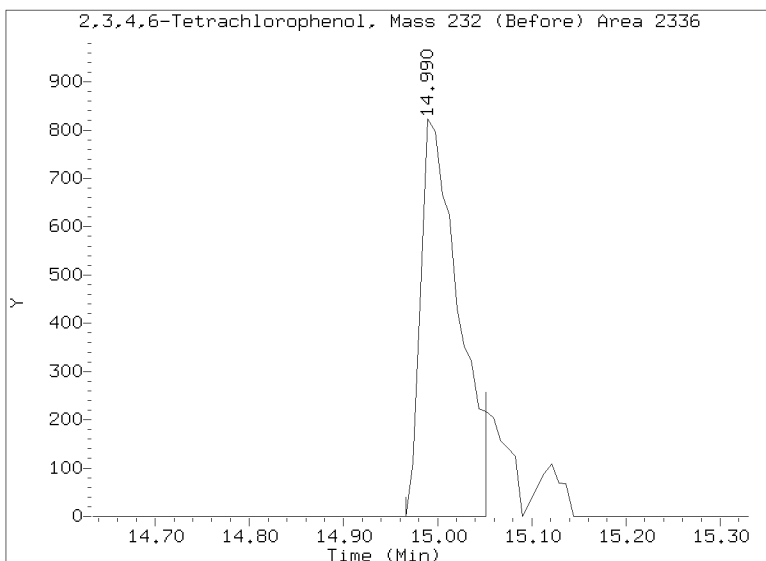
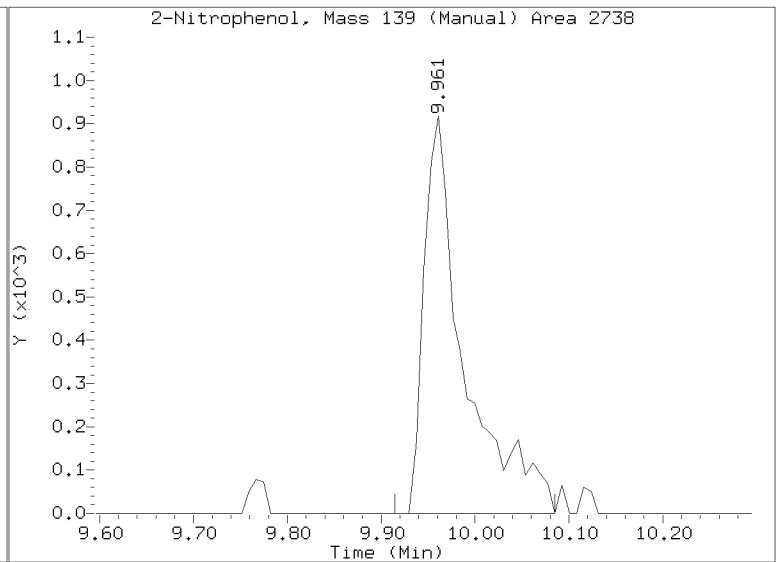
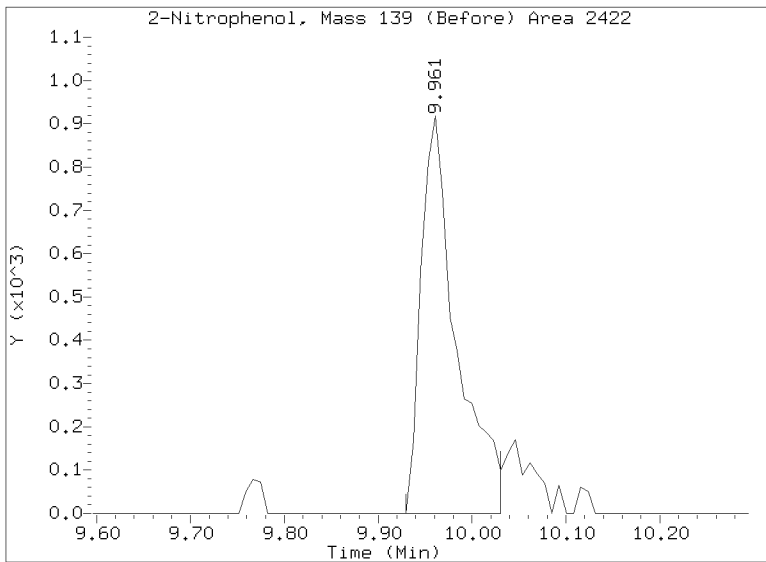
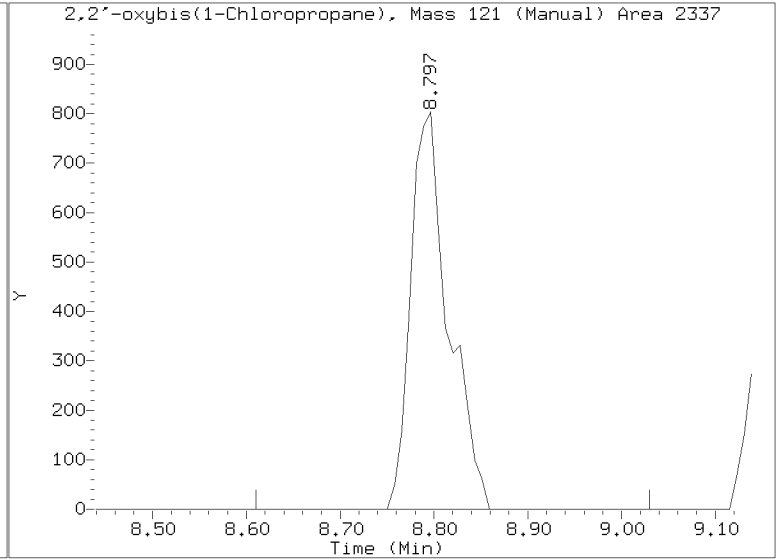
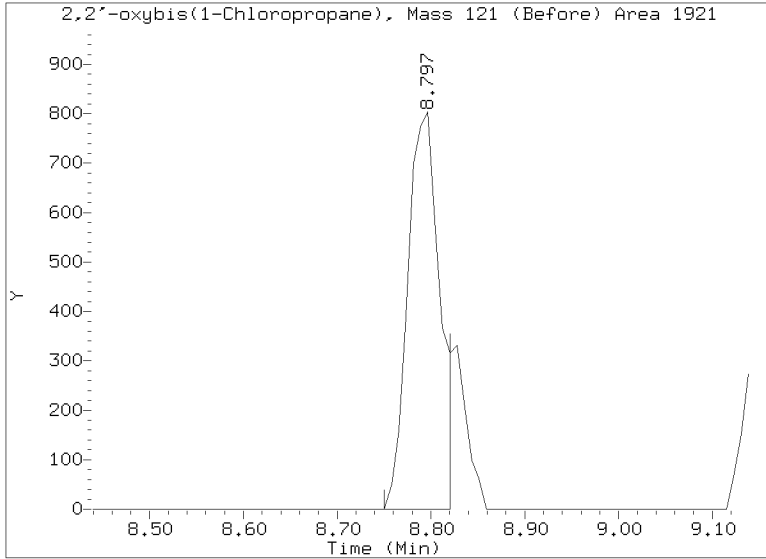
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Injection Date: 01-MAR-2023 14:51  
Lab ID:SLB0374-LCV1 Client ID:  
Report Date: 03/11/2023 09:11



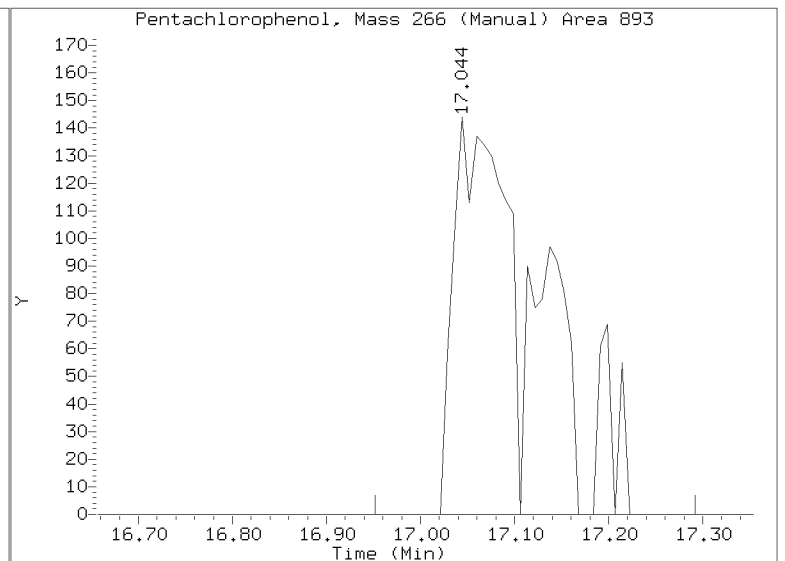
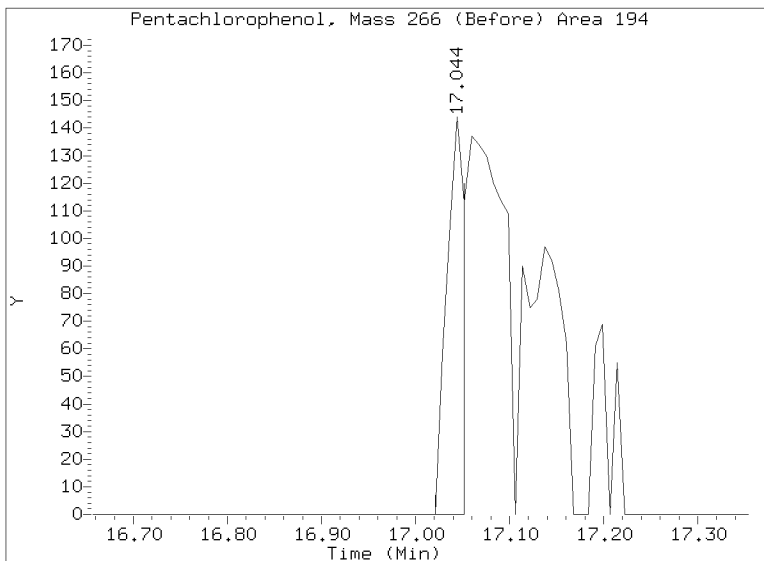
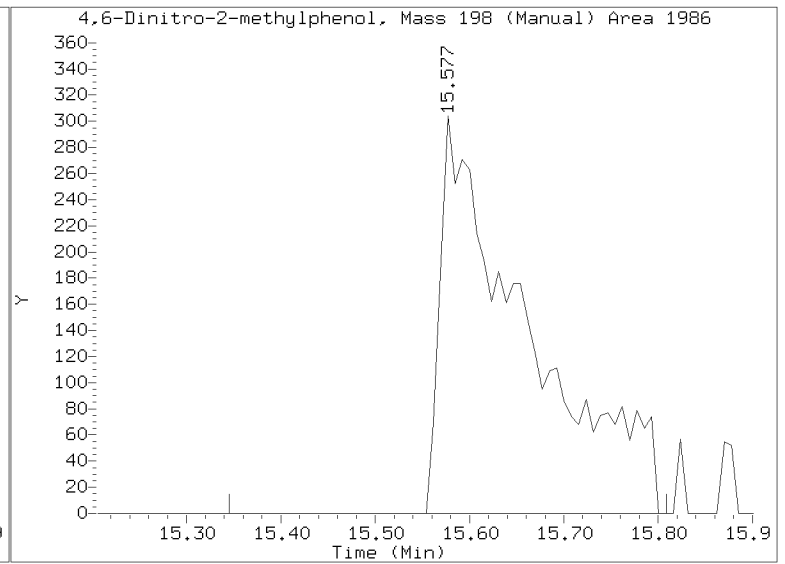
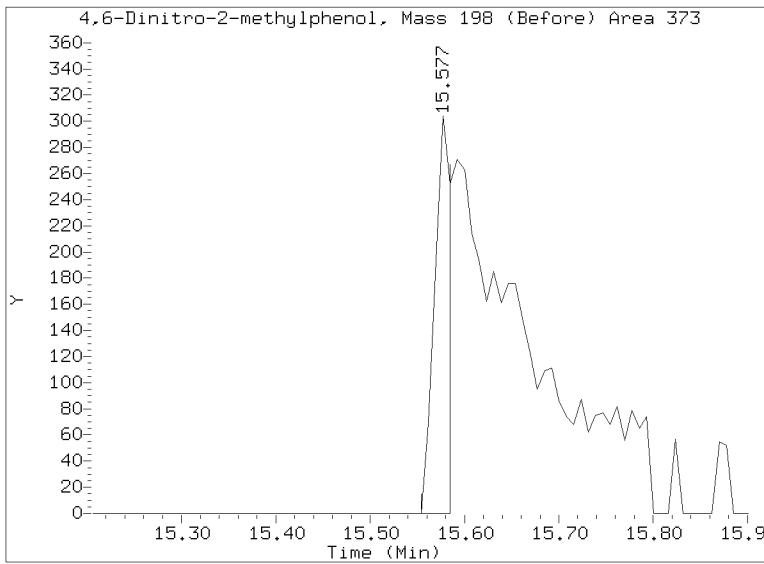
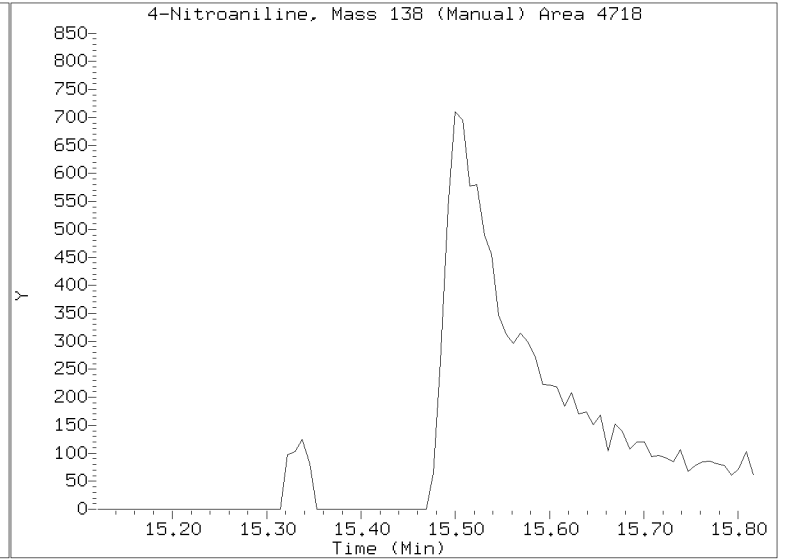
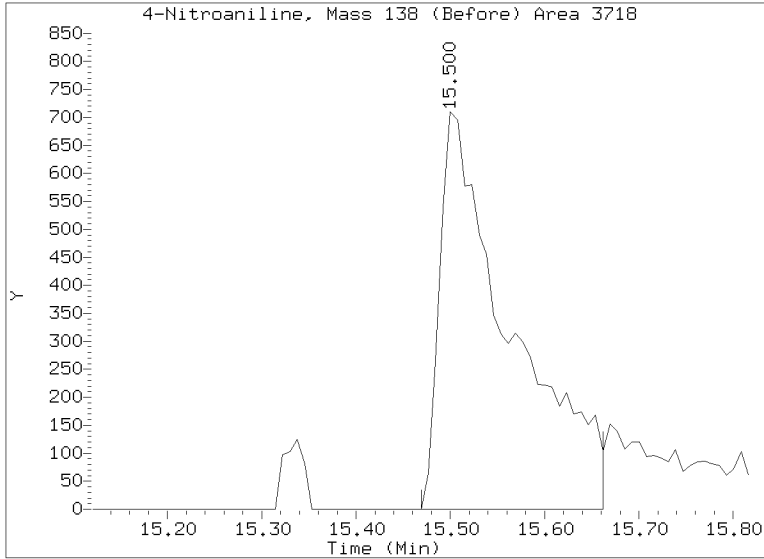
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022823.D  
Injection Date: 01-MAR-2023 14:51  
Lab ID:SLB0374-LCV1 Client ID:  
Report Date: 03/11/2023 09:11



# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022823.D  
Injection Date: 01-MAR-2023 14:51  
Lab ID: SLB0374-LCV1 Client ID:  
Report Date: 03/11/2023 09:11





**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-LCV2

**Sequence:** SLB0374

**Standard ID:** K011106

| ANALYTE                      | EXPECTED<br>(ug/mL) | FOUND<br>(ug/mL) | % DRIFT | QC LIMIT |
|------------------------------|---------------------|------------------|---------|----------|
| Phenol                       | 0.50000             | 0.5              | -0.1    | 50.00    |
| bis(2-chloroethyl) ether     | 0.50000             | 0.5              | 3.0     | 50.00    |
| 2-Chlorophenol               | 0.50000             | 0.5              | -3.1    | 50.00    |
| 1,3-Dichlorobenzene          | 0.50000             | 0.5              | 5.2     | 50.00    |
| 1,4-Dichlorobenzene          | 0.50000             | 0.5              | 1.0     | 50.00    |
| 1,2-Dichlorobenzene          | 0.50000             | 0.5              | 4.2     | 50.00    |
| Benzyl Alcohol               | 0.50000             | 0.3              | -42.4   | 50.00    |
| 2,2'-Oxybis(1-chloropropane) | 0.50000             | 0.5              | 4.4     | 50.00    |
| 2-Methylphenol               | 0.50000             | 0.5              | -1.2    | 50.00    |
| Hexachloroethane             | 0.50000             | 0.4              | -16.0   | 50.00    |
| N-Nitroso-di-n-Propylamine   | 0.50000             | 0.5              | 9.6     | 50.00    |
| 4-Methylphenol               | 0.50000             | 0.4              | -15.6   | 50.00    |
| Nitrobenzene                 | 0.50000             | 0.6              | 10.1    | 50.00    |
| Isophorone                   | 0.50000             | 0.4              | -13.2   | 50.00    |
| 2-Nitrophenol                | 0.50000             | 0.4              | -25.3   | 50.00    |
| 2,4-Dimethylphenol           | 1.0000              | 1.1              | 9.6     | 50.00    |
| Bis(2-Chloroethoxy)methane   | 0.50000             | 0.5              | -0.4    | 50.00    |
| 2,4-Dichlorophenol           | 1.0000              | 0.9              | -14.1   | 50.00    |
| 1,2,4-Trichlorobenzene       | 0.50000             | 0.5              | 1.2     | 50.00    |
| Naphthalene                  | 0.50000             | 0.5              | 6.0     | 50.00    |
| Benzoic acid                 | 2.0000              | 0.6              | -71.6 * | 50.00    |
| 4-Chloroaniline              | 1.0000              | 0.9              | -5.4    | 50.00    |
| Hexachlorobutadiene          | 0.50000             | 0.5              | 9.9     | 50.00    |
| 4-Chloro-3-Methylphenol      | 1.0000              | 1.0              | -2.8    | 50.00    |
| 2-Methylnaphthalene          | 0.50000             | 0.5              | 1.4     | 50.00    |
| Hexachlorocyclopentadiene    | 1.0000              | 0.03             | -97.1 * | 50.00    |
| 2,4,6-Trichlorophenol        | 1.0000              | 0.9              | -6.7    | 50.00    |
| 2,4,5-Trichlorophenol        | 1.0000              | 0.9              | -12.3   | 50.00    |
| 2-Chloronaphthalene          | 0.50000             | 0.5              | 4.1     | 50.00    |





**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-LCV2

**Sequence:** SLB0374

**Standard ID:** K011106

|                            |         |     |         |       |
|----------------------------|---------|-----|---------|-------|
| 2-Nitroaniline             | 1.0000  | 1.0 | 4.8     | 50.00 |
| Acenaphthylene             | 0.50000 | 0.6 | 13.4    | 50.00 |
| Dimethylphthalate          | 0.50000 | 0.5 | 9.6     | 50.00 |
| 2,6-Dinitrotoluene         | 1.0000  | 1.0 | -0.6    | 50.00 |
| Acenaphthene               | 0.50000 | 0.5 | 4.2     | 50.00 |
| 3-Nitroaniline             | 1.0000  | 0.9 | -8.9    | 50.00 |
| 2,4-Dinitrophenol          | 2.0000  | 0.3 | -83.3 * | 50.00 |
| Dibenzofuran               | 0.50000 | 0.5 | 1.6     | 50.00 |
| 4-Nitrophenol              | 1.0000  | 0.7 | -27.2   | 50.00 |
| 2,4-Dinitrotoluene         | 1.0000  | 0.9 | -13.7   | 50.00 |
| Fluorene                   | 0.50000 | 0.5 | 7.1     | 50.00 |
| 4-Chlorophenylphenyl ether | 0.50000 | 0.5 | 1.4     | 50.00 |
| Diethyl phthalate          | 0.50000 | 0.5 | 8.7     | 50.00 |
| 4-Nitroaniline             | 1.0000  | 0.8 | -19.3   | 50.00 |
| 4,6-Dinitro-2-methylphenol | 2.0000  | 0.8 | -61.7 * | 50.00 |
| N-Nitrosodiphenylamine     | 0.50000 | 0.6 | 11.0    | 50.00 |
| 4-Bromophenyl phenyl ether | 0.50000 | 0.5 | 2.7     | 50.00 |
| Hexachlorobenzene          | 0.50000 | 0.5 | 4.0     | 50.00 |
| Pentachlorophenol          | 1.0000  | 0.4 | -57.2 * | 50.00 |
| Phenanthrene               | 0.50000 | 0.5 | 2.5     | 50.00 |
| Anthracene                 | 0.50000 | 0.5 | 3.8     | 50.00 |
| Carbazole                  | 0.50000 | 0.5 | -1.0    | 50.00 |
| Di-n-Butylphthalate        | 0.50000 | 0.5 | -4.3    | 50.00 |
| Fluoranthene               | 0.50000 | 0.5 | 2.6     | 50.00 |
| Pyrene                     | 0.50000 | 0.5 | 2.4     | 50.00 |
| Butylbenzylphthalate       | 0.50000 | 0.5 | 2.4     | 50.00 |
| Benzo(a)anthracene         | 0.50000 | 0.5 | 9.1     | 50.00 |
| 3,3'-Dichlorobenzidine     | 1.5000  | 1.9 | 23.6    | 50.00 |
| Chrysene                   | 0.50000 | 0.5 | 6.5     | 50.00 |
| bis(2-Ethylhexyl)phthalate | 0.50000 | 0.5 | -9.2    | 50.00 |
| Di-n-Octylphthalate        | 0.50000 | 0.5 | 0.07    | 50.00 |



**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-LCV2

**Sequence:** SLB0374

**Standard ID:** K011106

|                           |         |       |         |       |
|---------------------------|---------|-------|---------|-------|
| Benzofluoranthenes, Total | 1.0000  | 1.1   | 5.5     | 50.00 |
| Benzo(a)pyrene            | 0.50000 | 0.5   | 9.4     | 50.00 |
| Indeno(1,2,3-cd)pyrene    | 0.50000 | 0.3   | -34.8   | 50.00 |
| Dibenzo(a,h)anthracene    | 0.50000 | 0.4   | -29.3   | 50.00 |
| Benzo(g,h,i)perylene      | 0.50000 | 0.2   | -53.4 * | 50.00 |
| 1-Methylnaphthalene       | 0.50000 | 0.5   | 2.2     | 50.00 |
| 2-Fluorophenol            | 0.75000 | 0.690 | -8.0    | 50.00 |
| Phenol-d5                 | 0.75000 | 0.751 | 0.08    | 50.00 |
| 2-Chlorophenol-d4         | 0.75000 | 0.753 | 0.4     | 50.00 |
| 1,2-Dichlorobenzene-d4    | 0.50000 | 0.511 | 2.1     | 50.00 |
| Nitrobenzene-d5           | 0.50000 | 0.540 | 8.0     | 50.00 |
| 2-Fluorobiphenyl          | 0.50000 | 0.523 | 4.7     | 50.00 |
| 2,4,6-Tribromophenol      | 0.75000 | 0.624 | -16.9   | 50.00 |
| p-Terphenyl-d14           | 0.50000 | 0.515 | 3.0     | 50.00 |

\* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022825.D

Date: 01-MAR-2023 16:04

Client ID:

Sample Info: SLB0374-LCW2

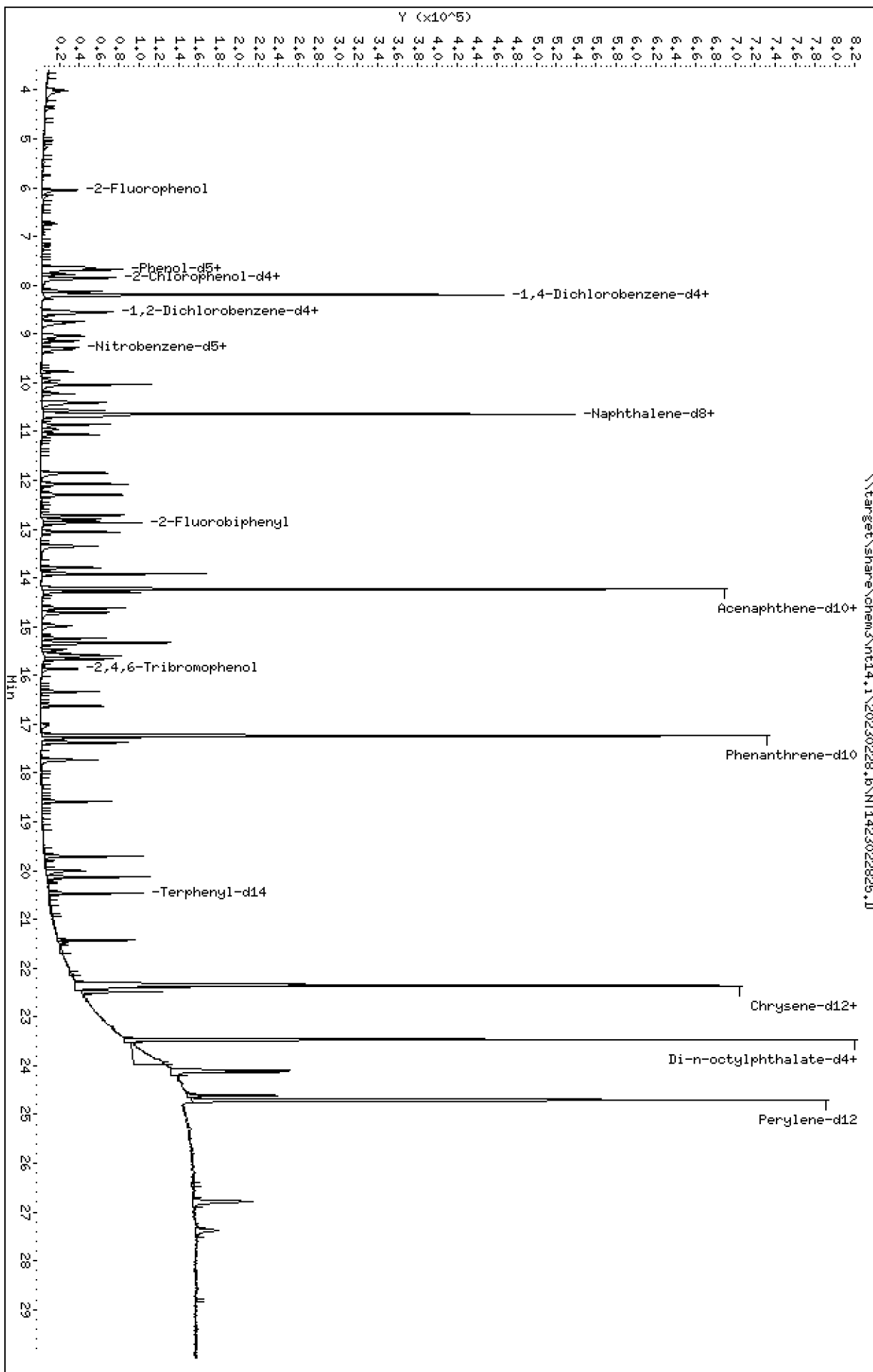
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

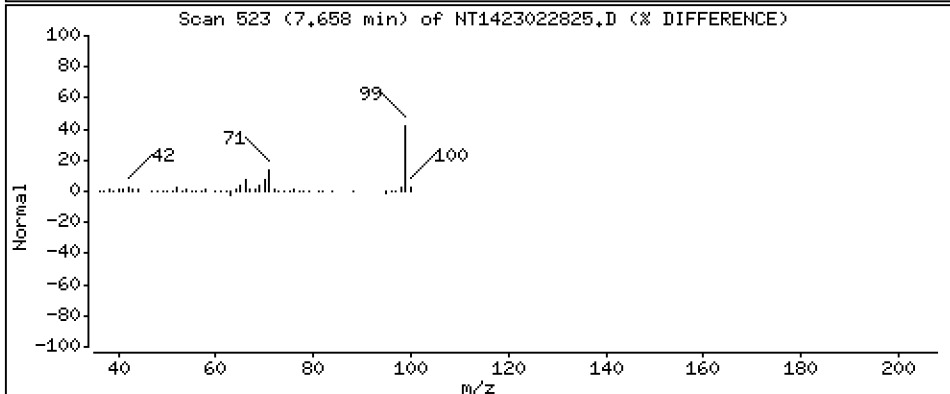
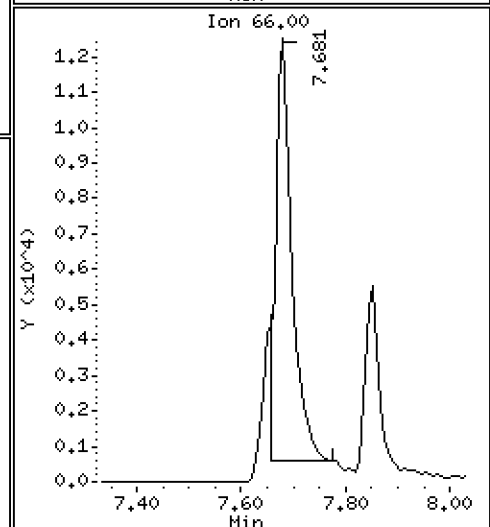
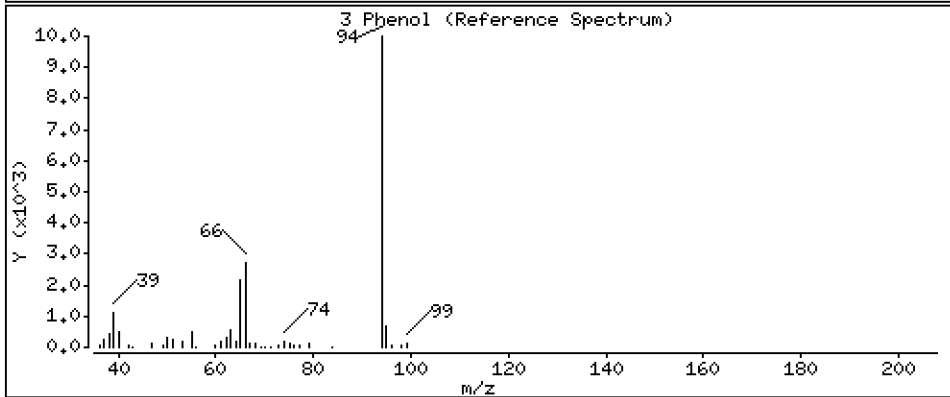
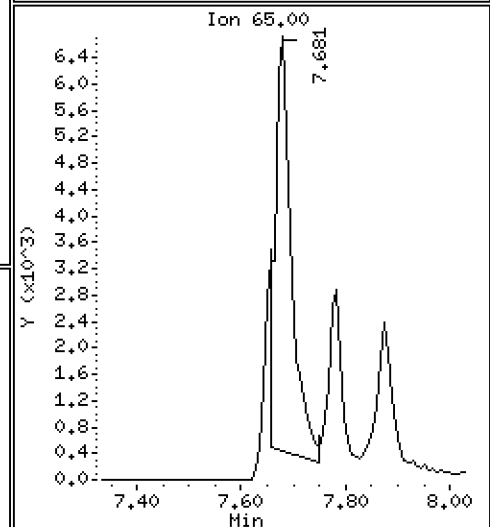
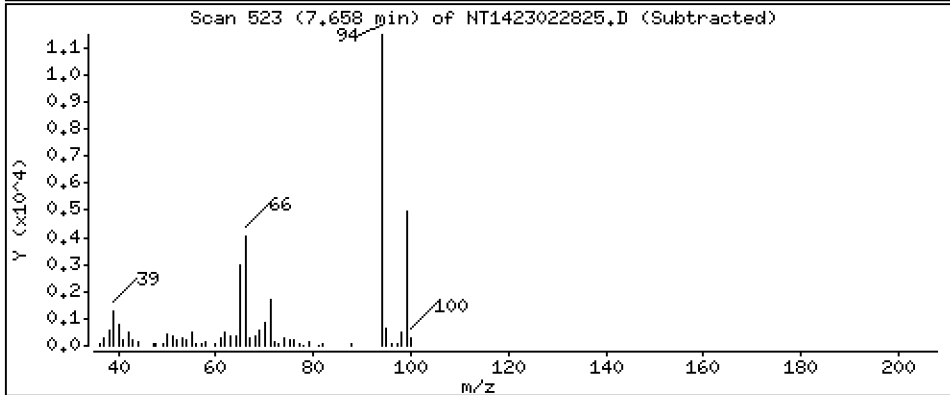
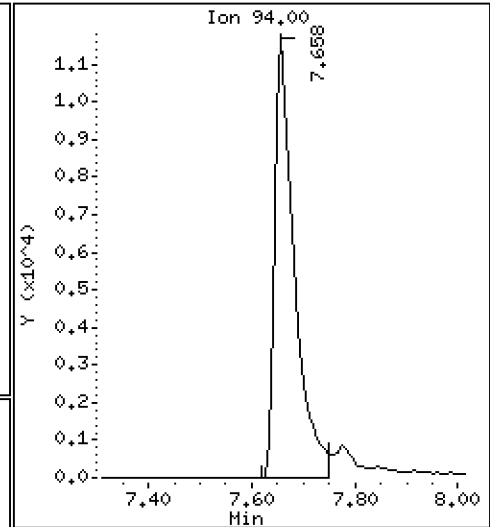
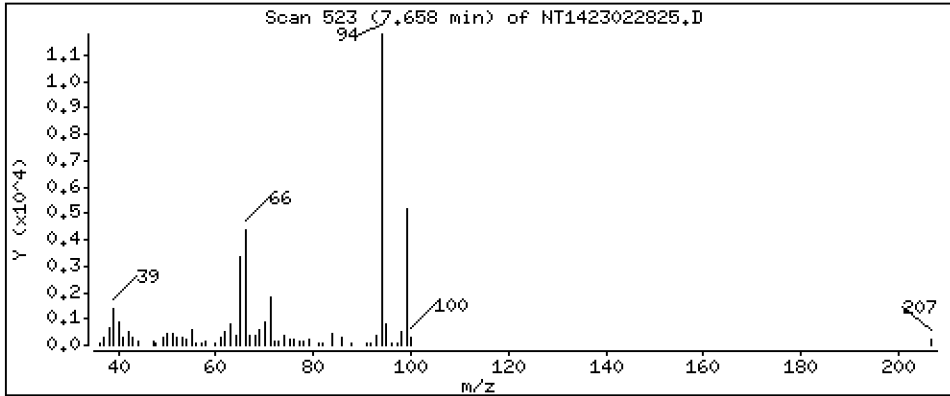
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 0.4993 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

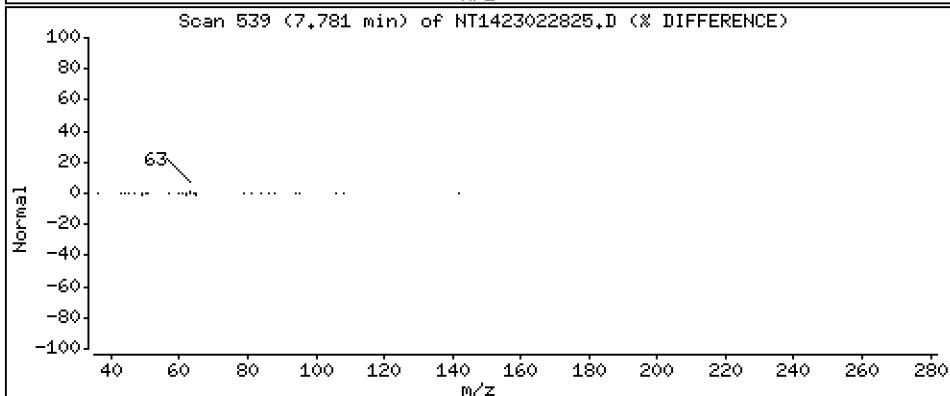
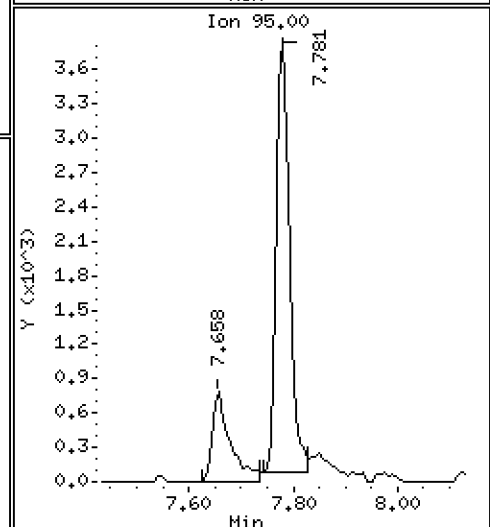
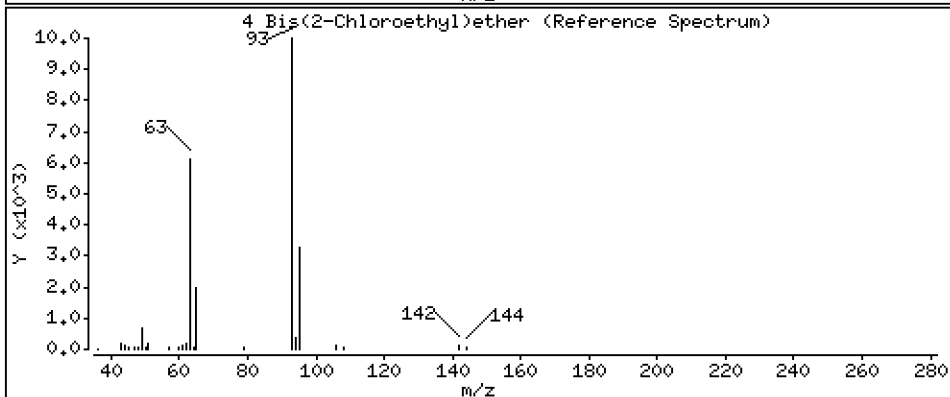
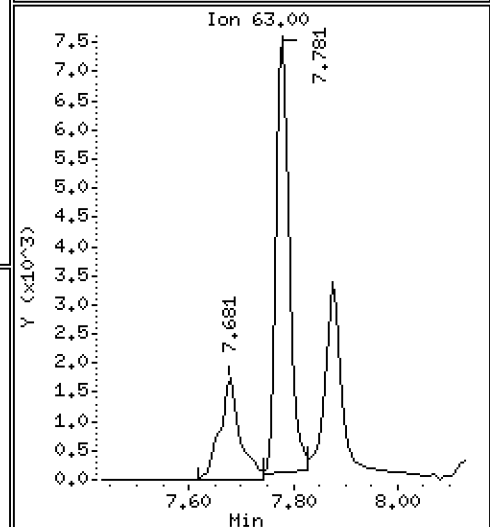
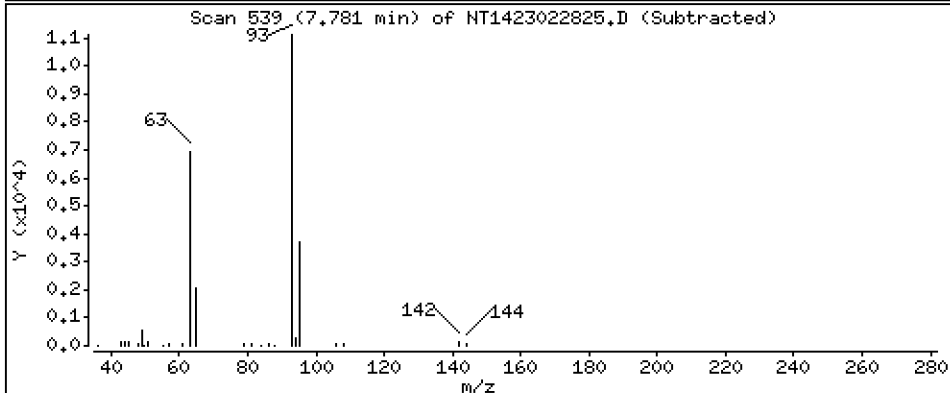
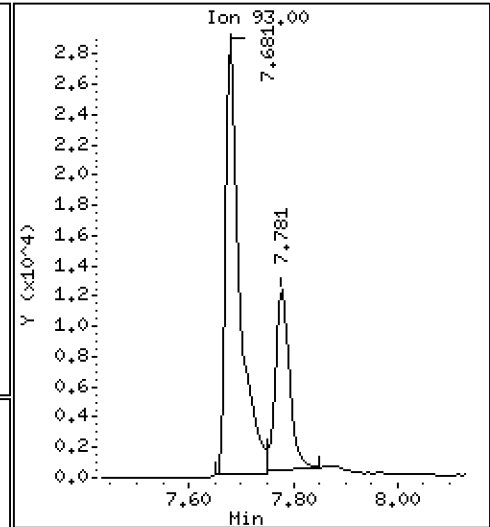
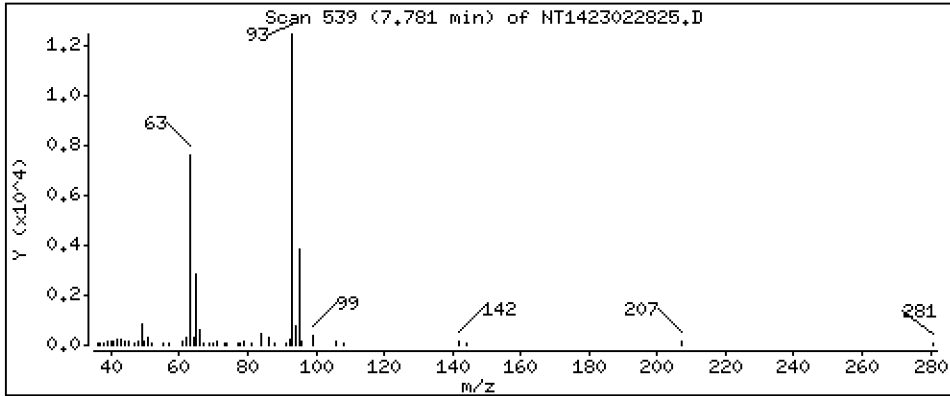
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 0.5148 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

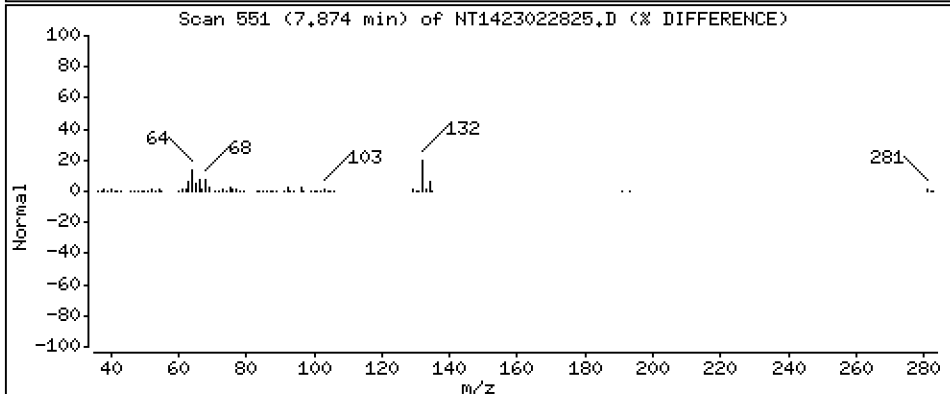
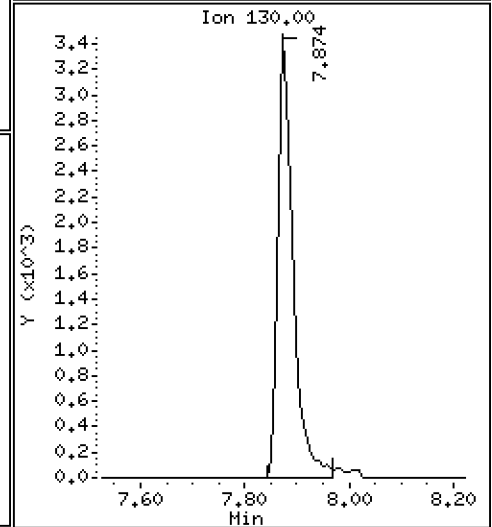
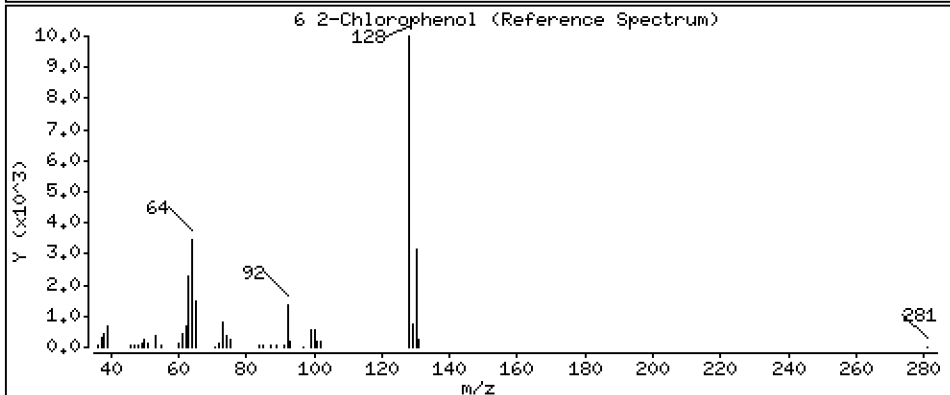
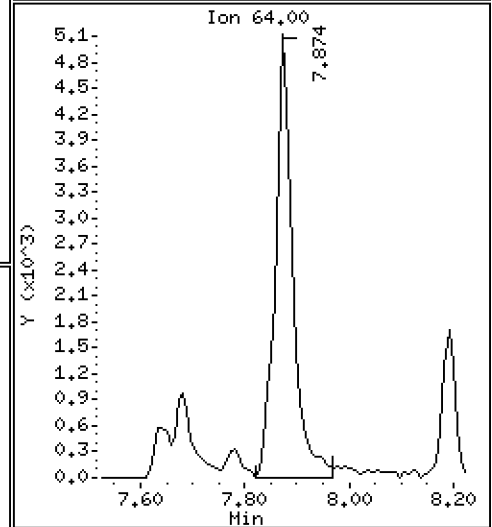
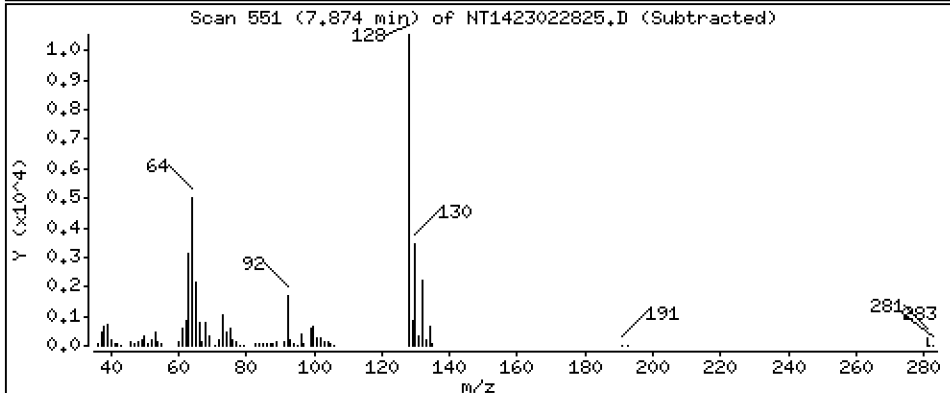
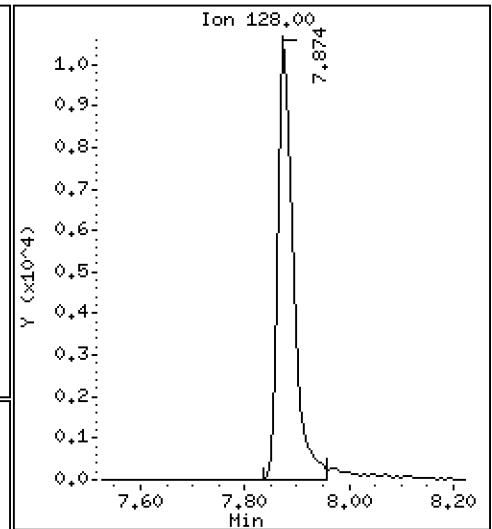
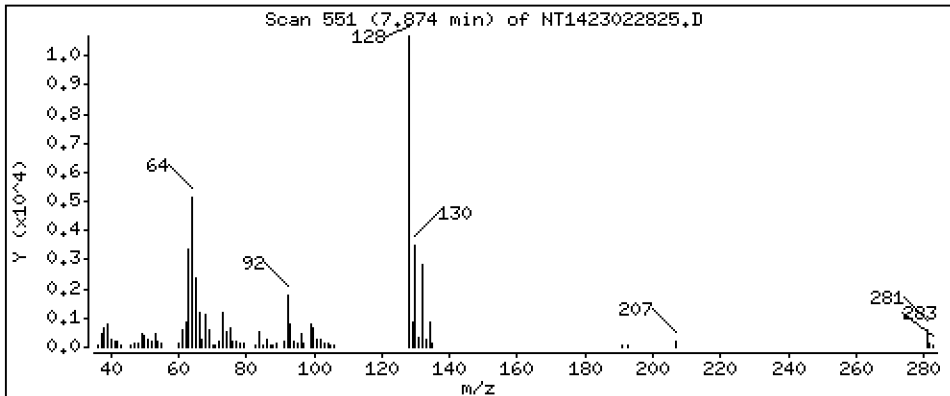
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,4847 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

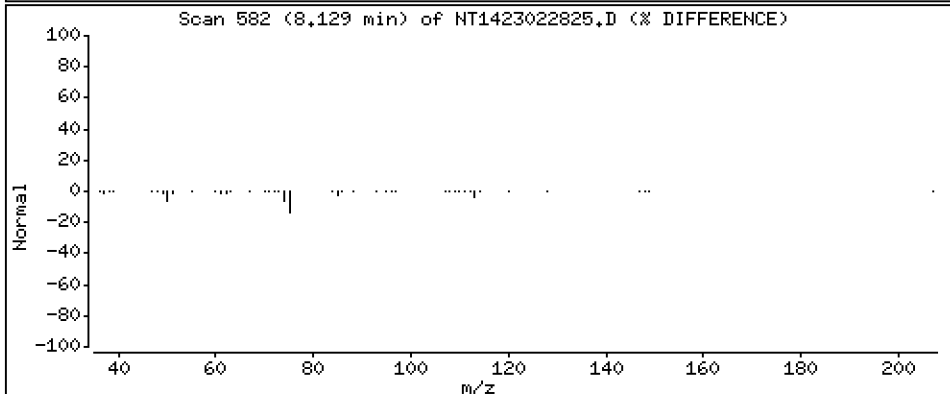
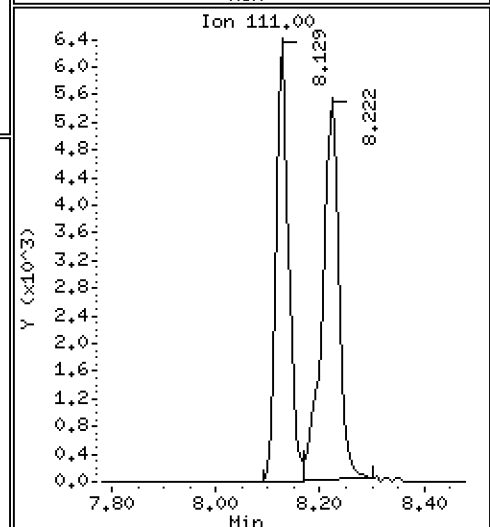
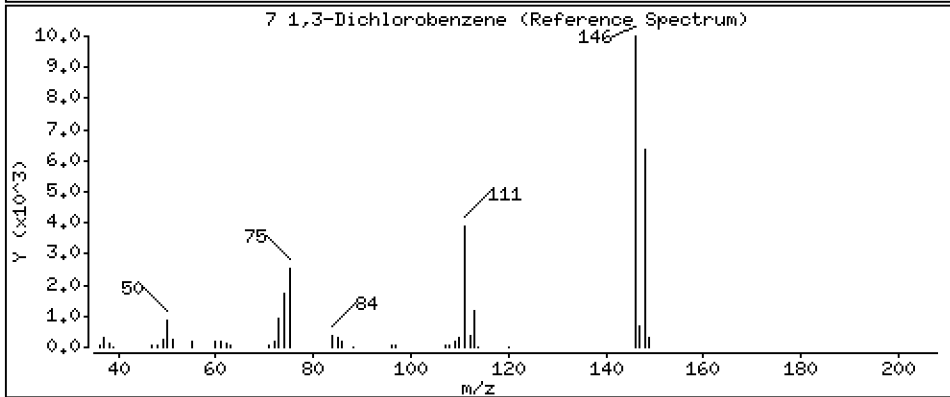
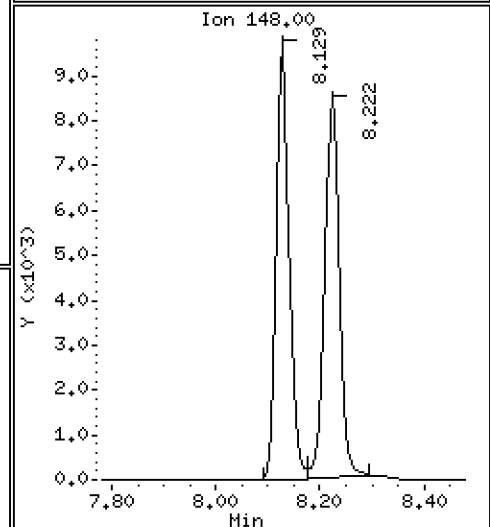
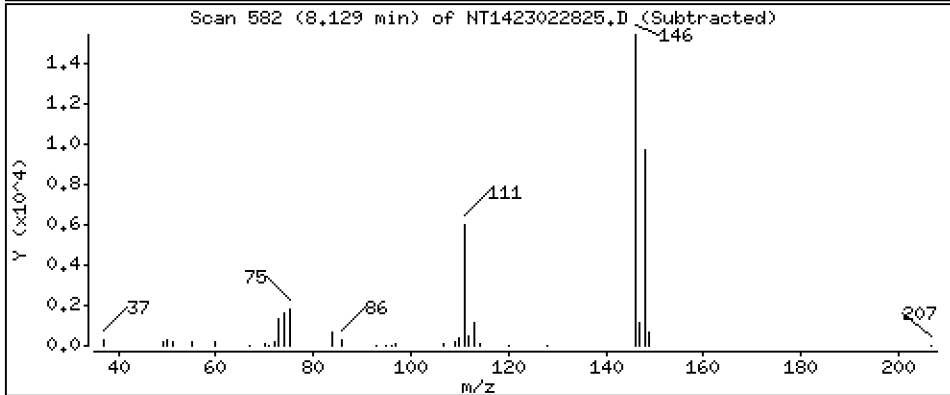
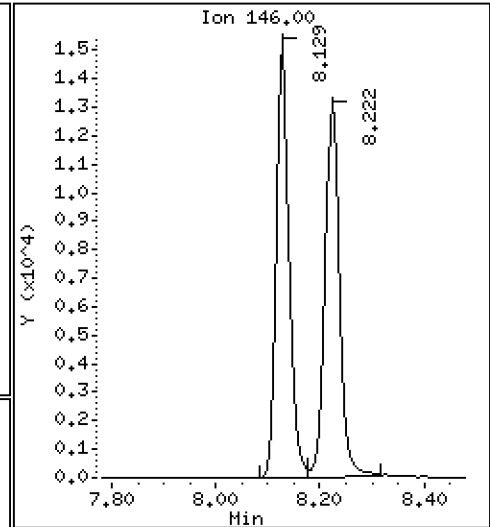
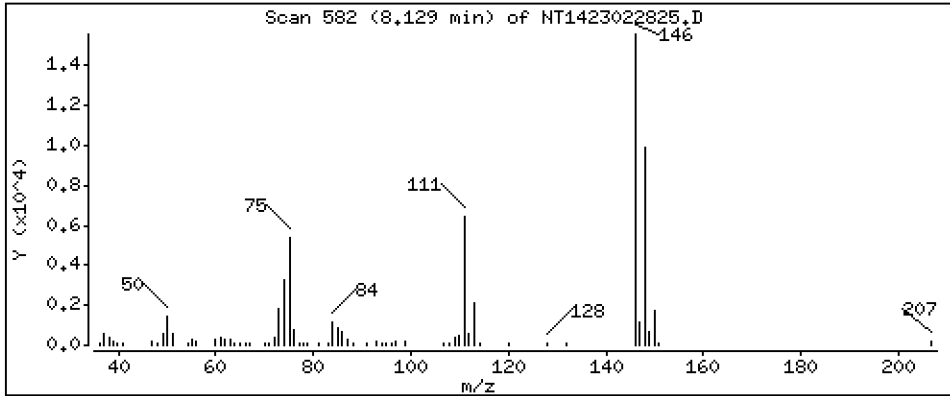
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,5258 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

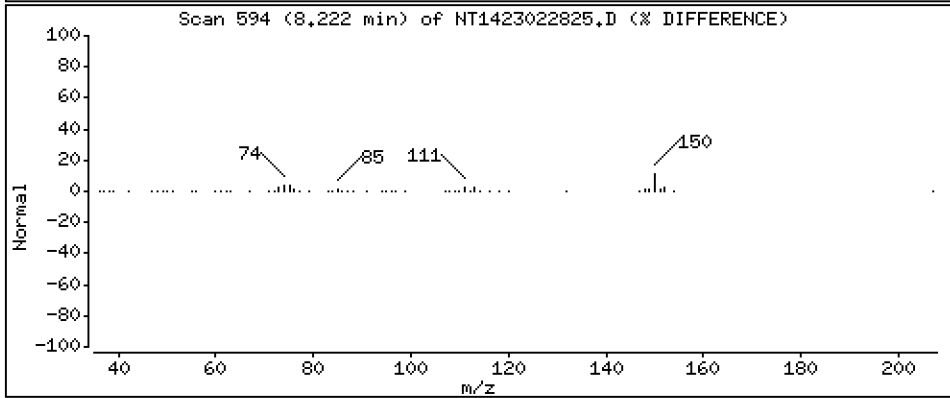
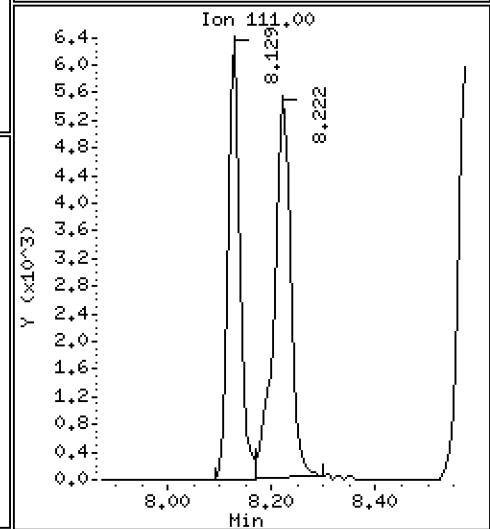
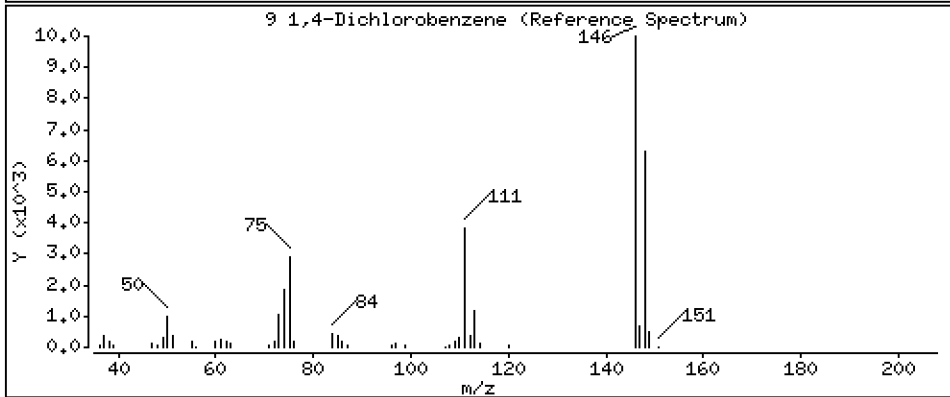
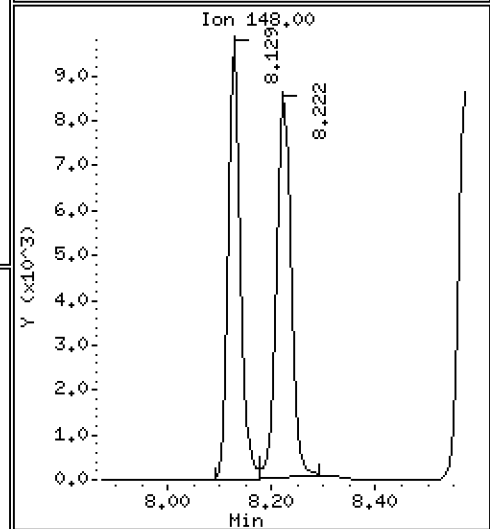
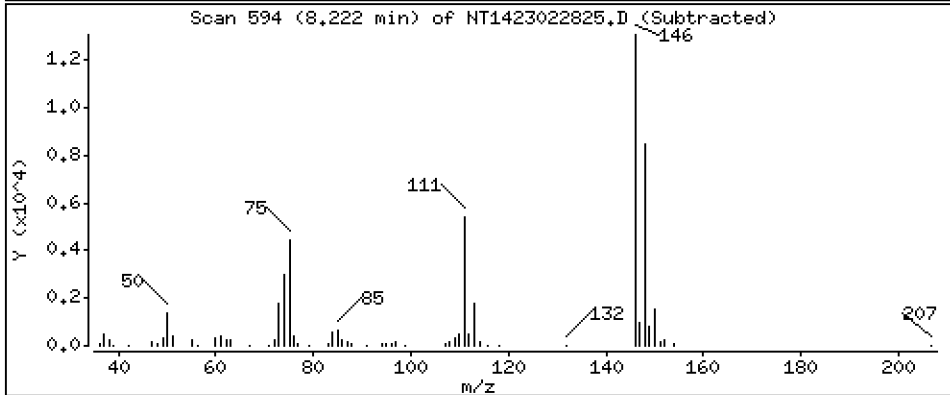
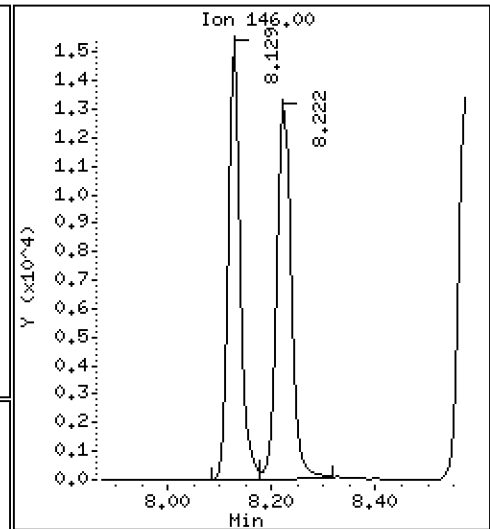
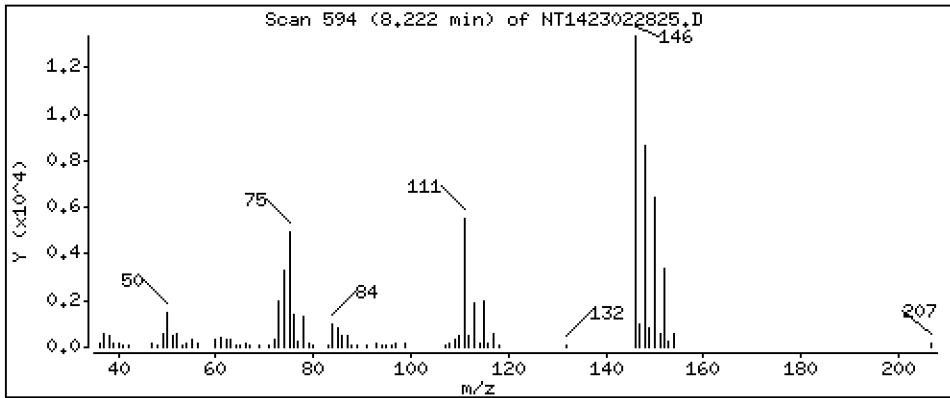
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,5052 ug/mL





Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

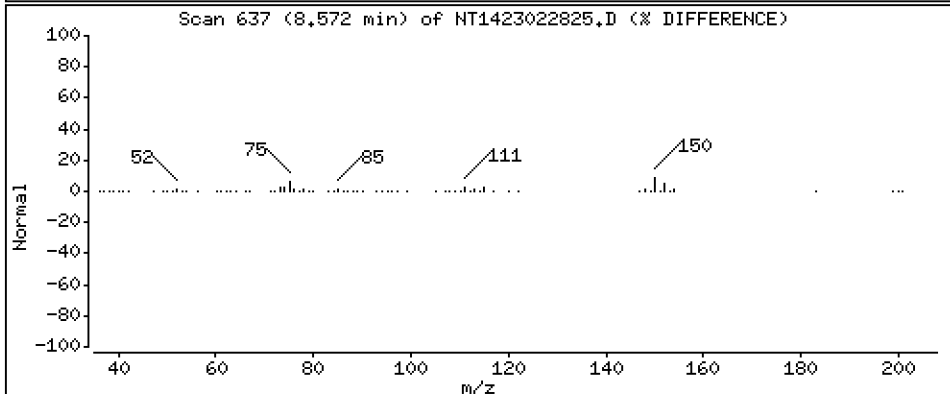
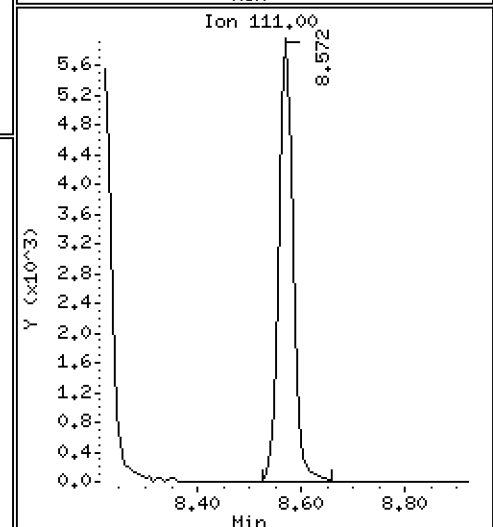
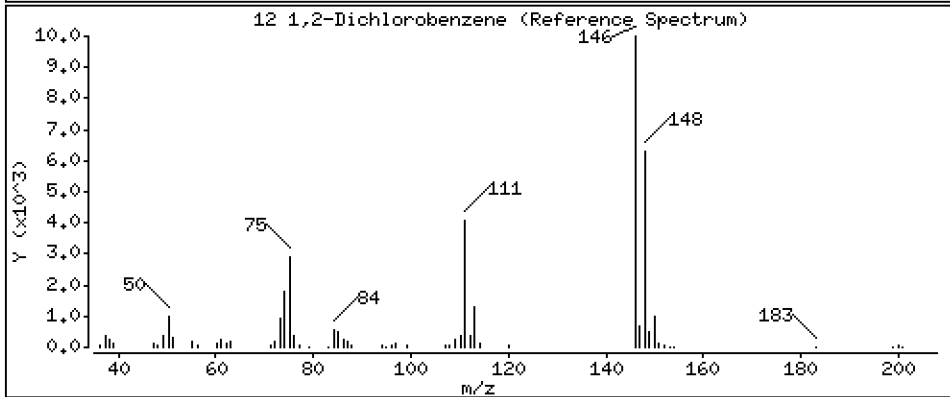
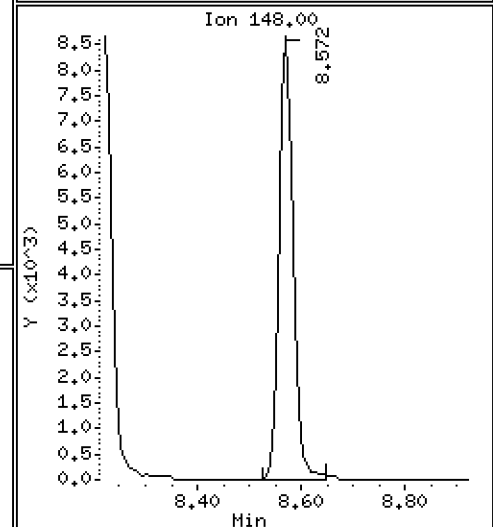
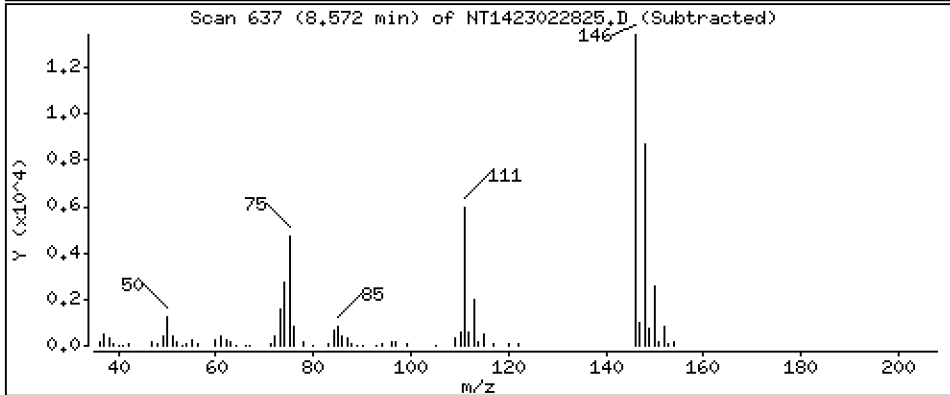
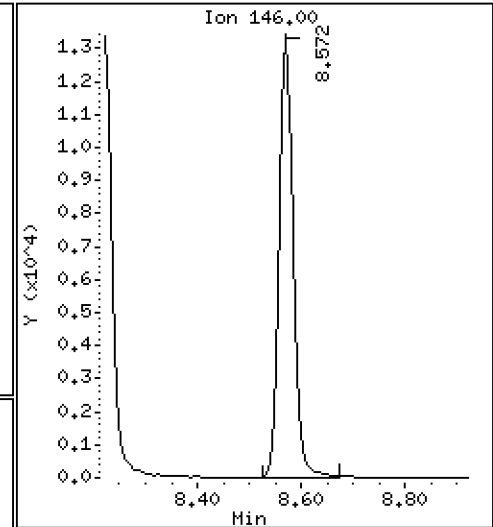
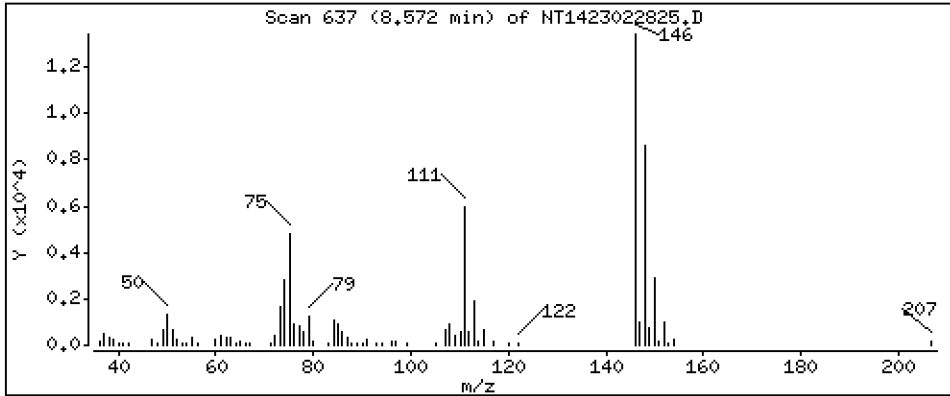
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 0.5209 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

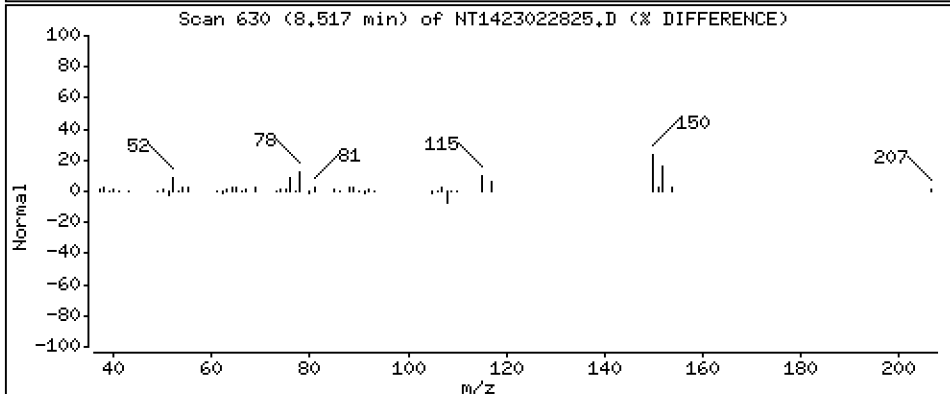
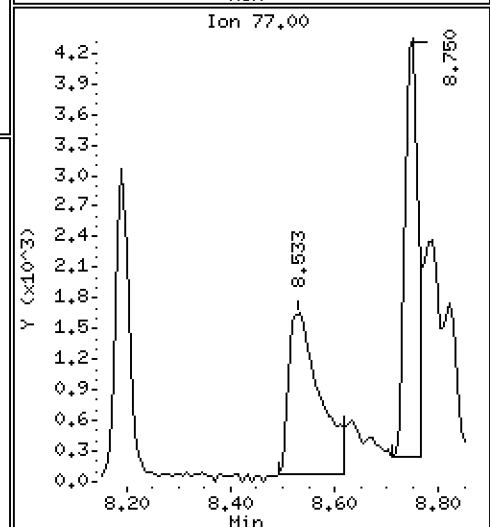
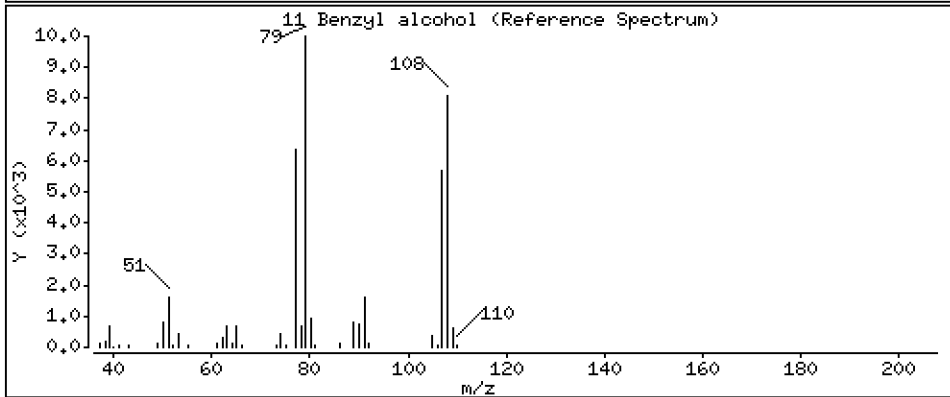
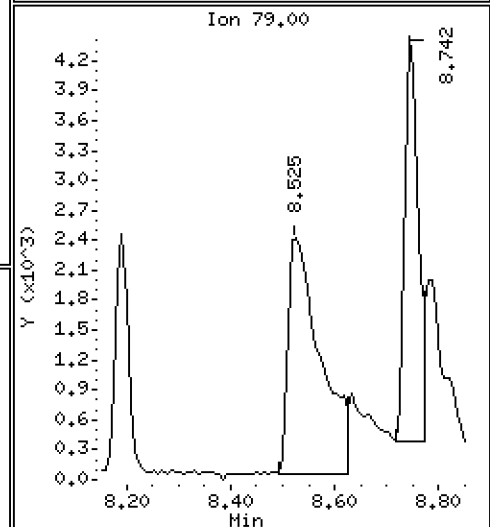
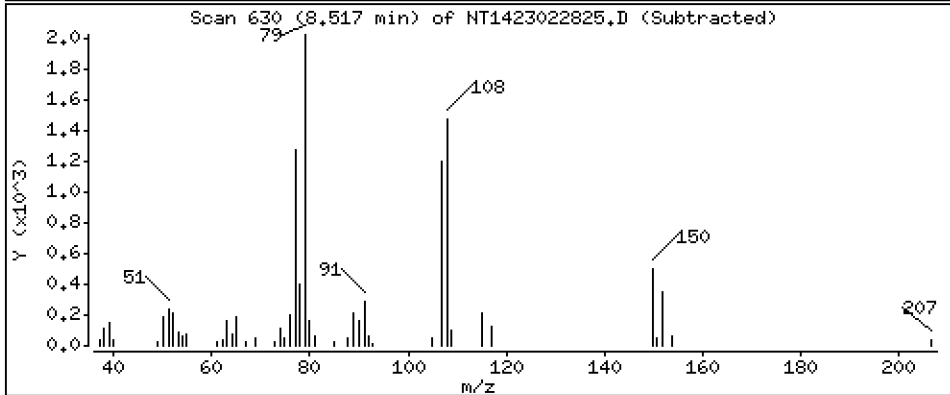
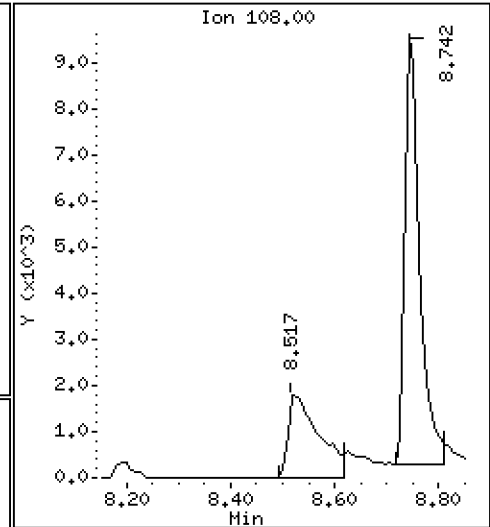
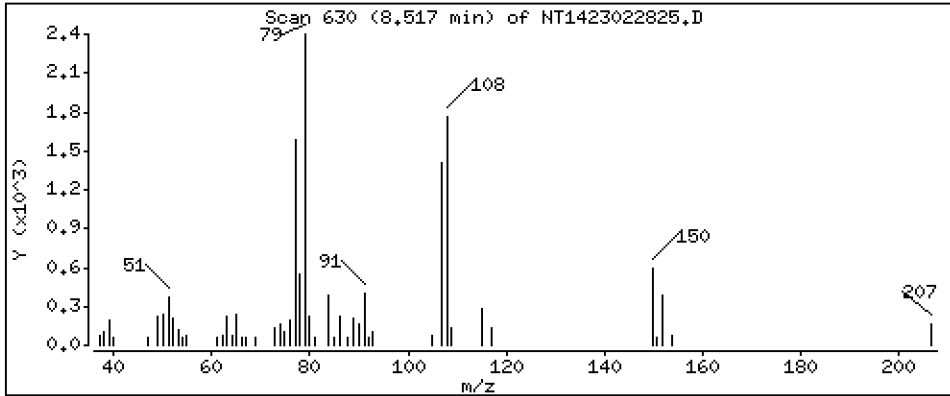
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.2878 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

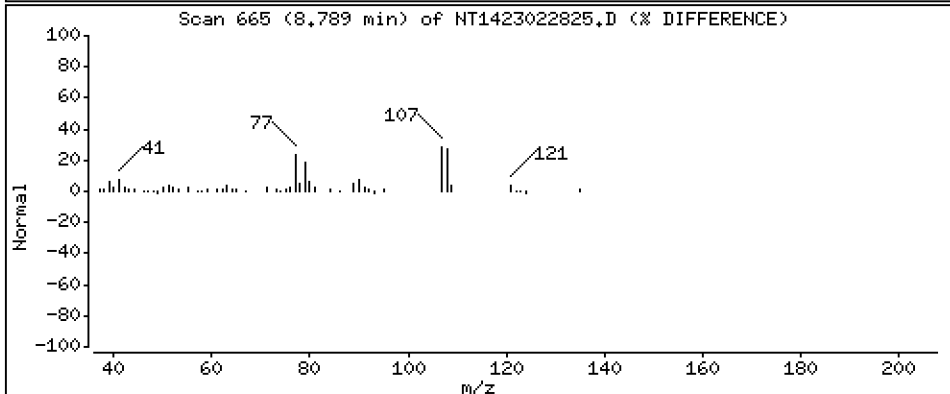
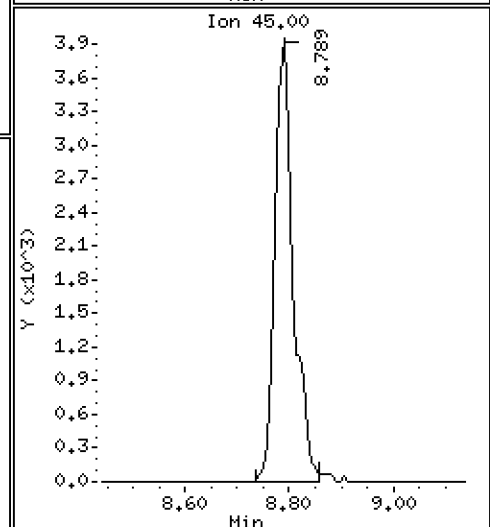
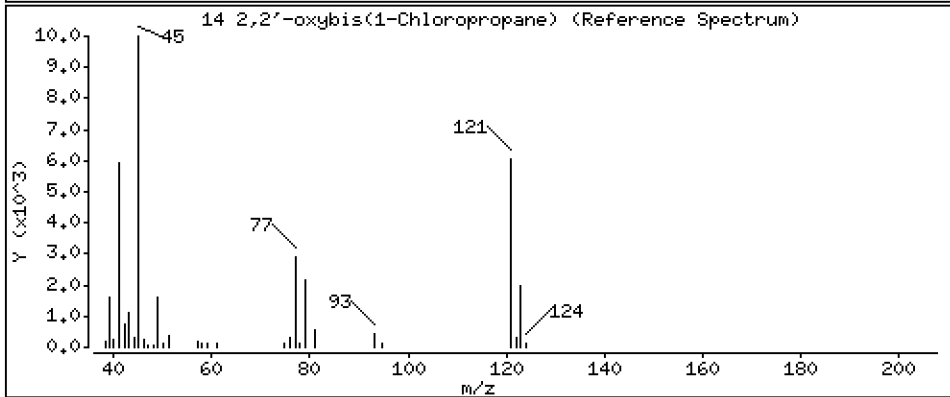
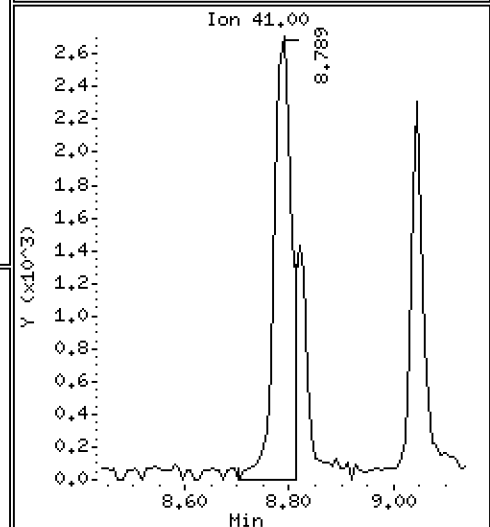
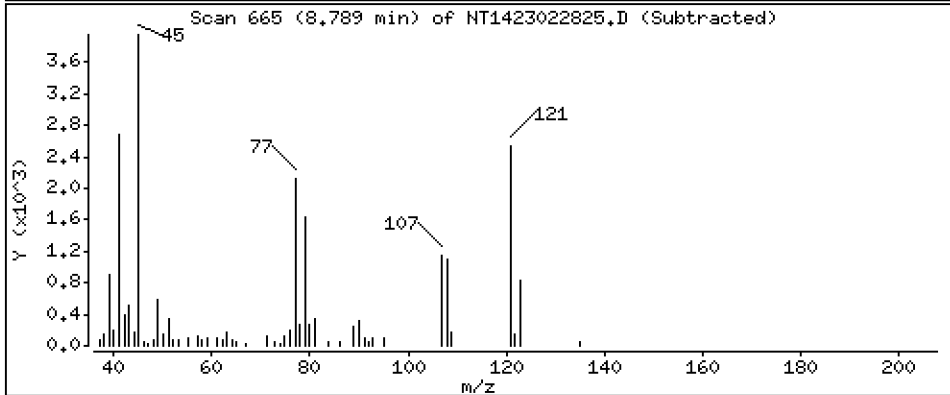
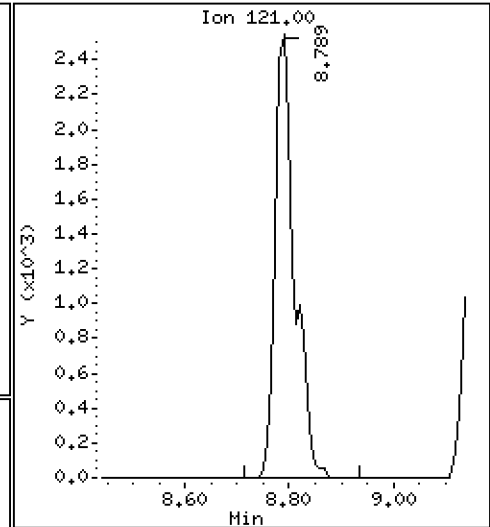
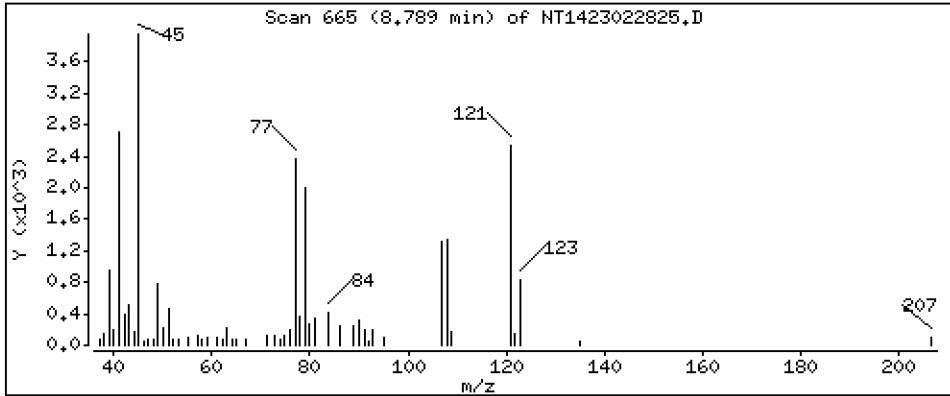
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 0,5218 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

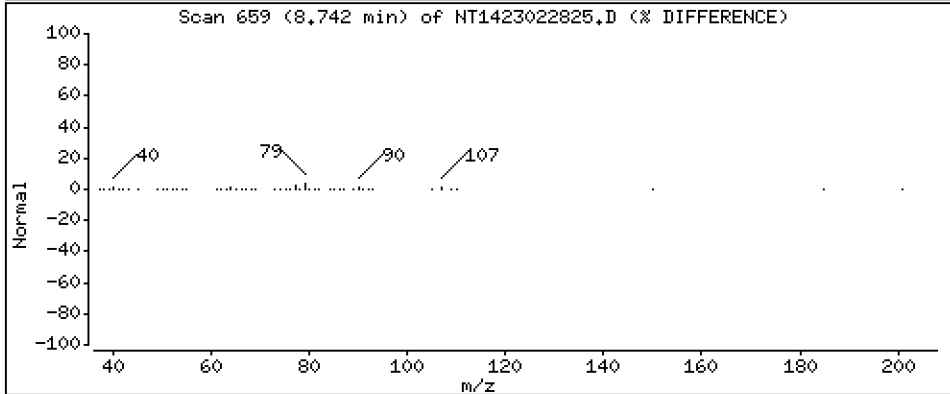
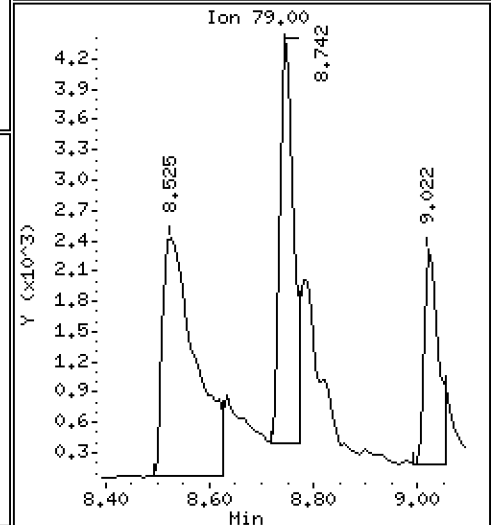
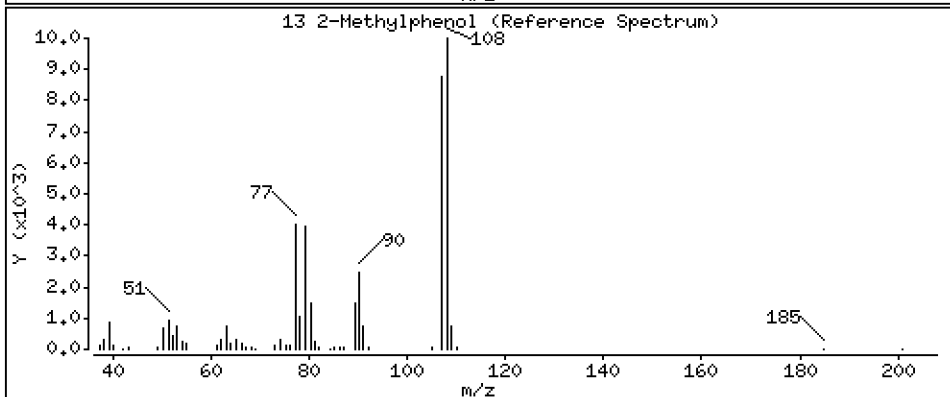
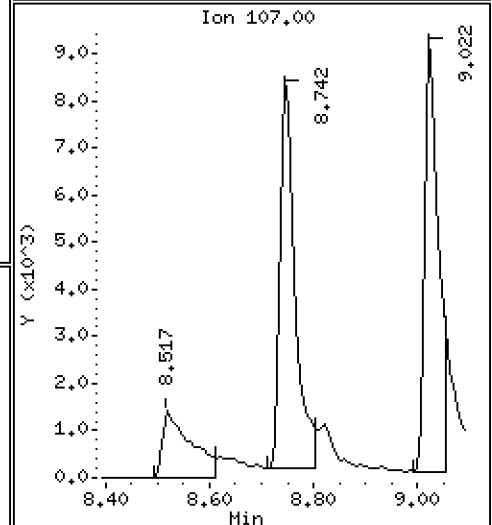
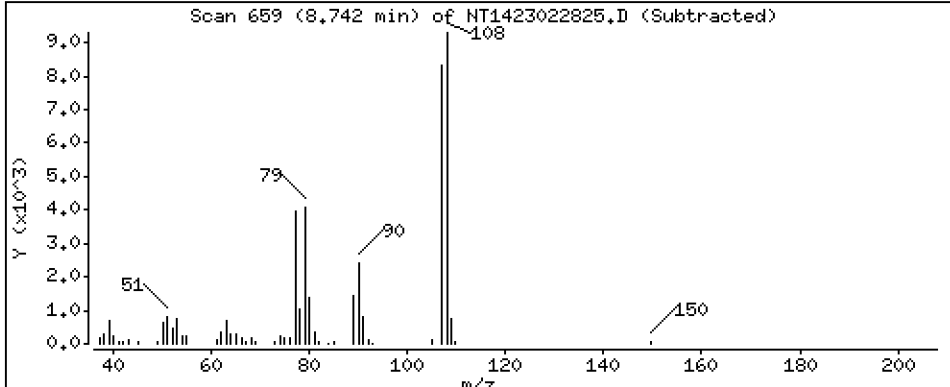
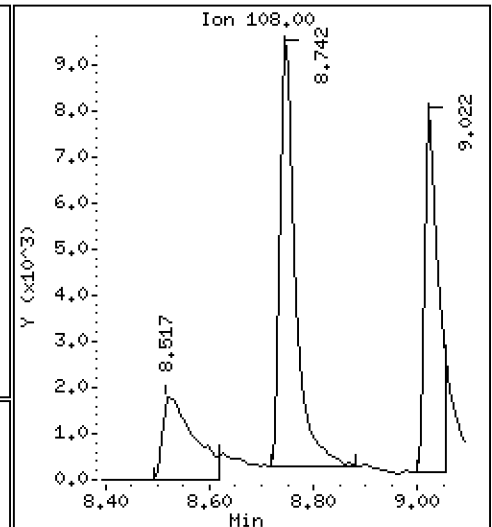
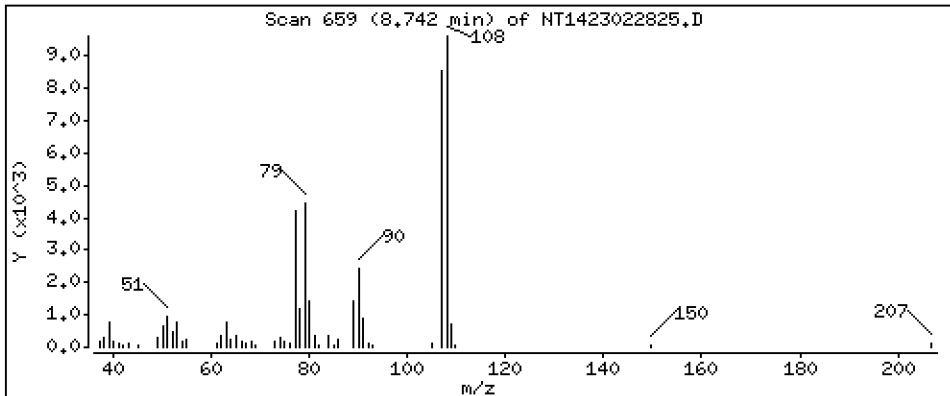
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 0,4938 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

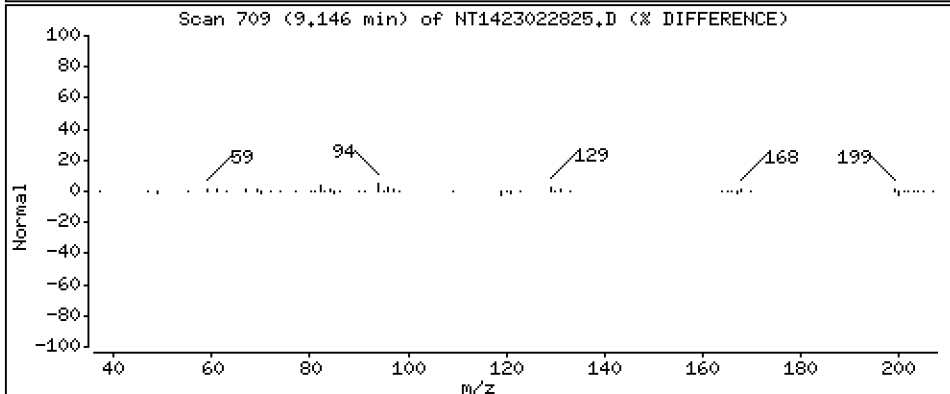
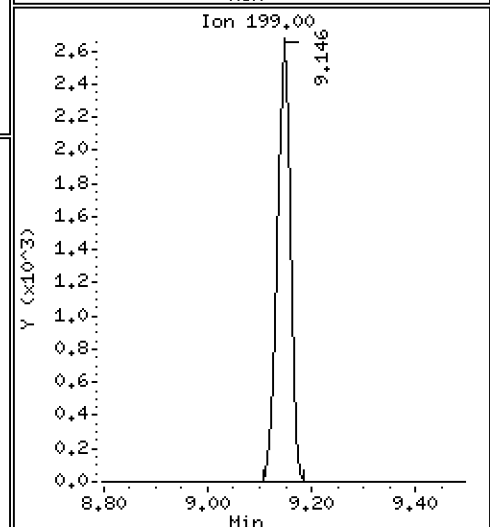
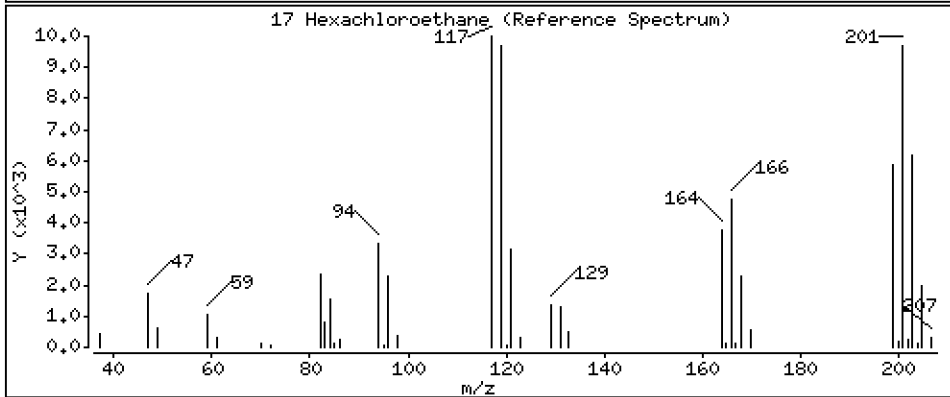
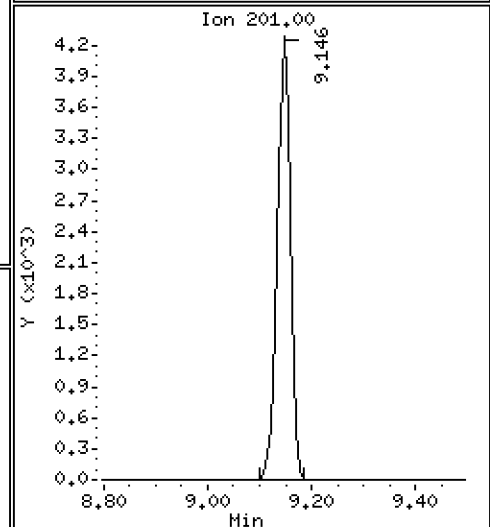
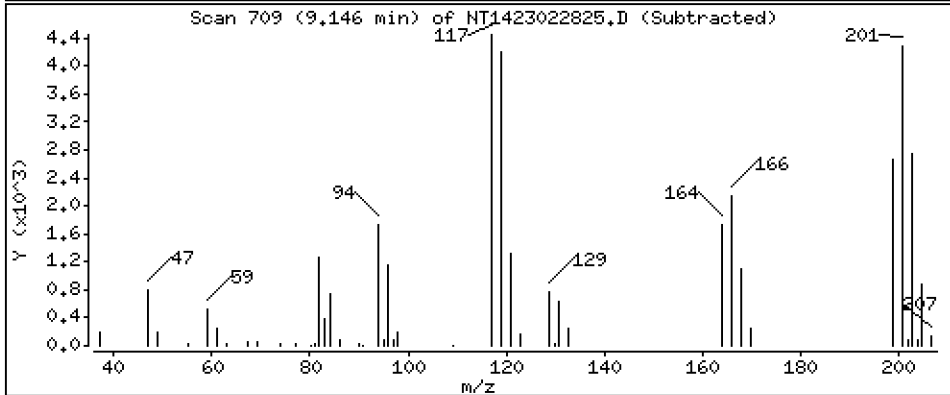
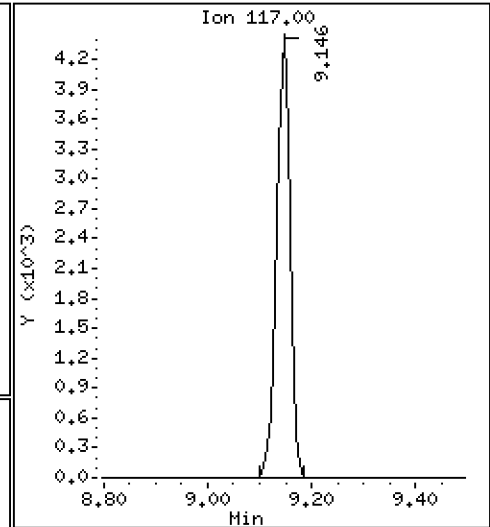
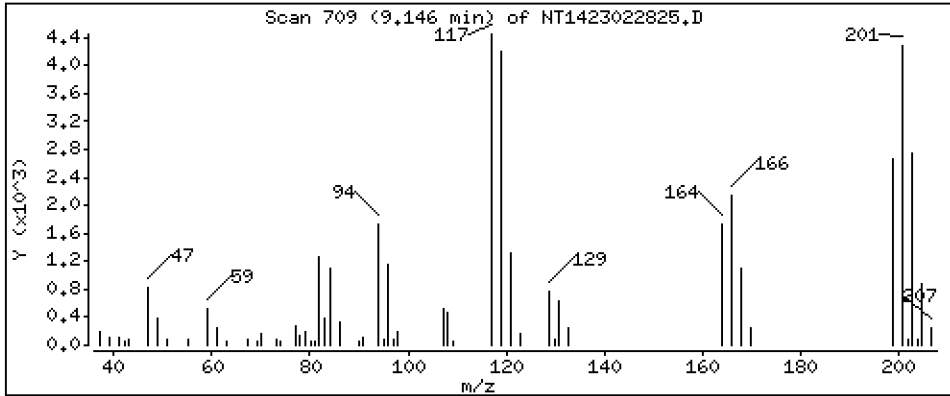
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,4200 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

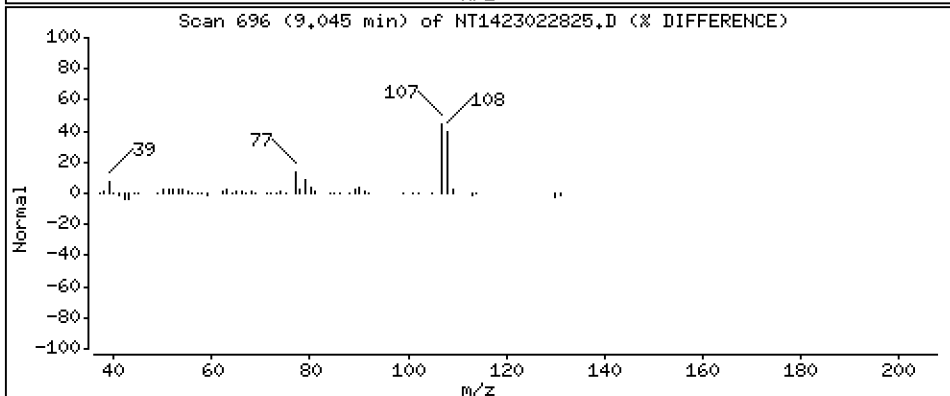
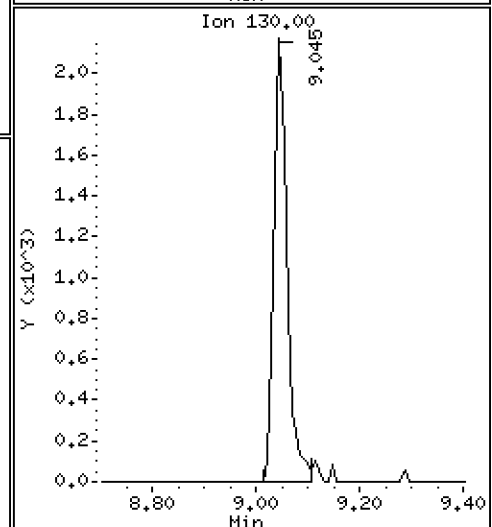
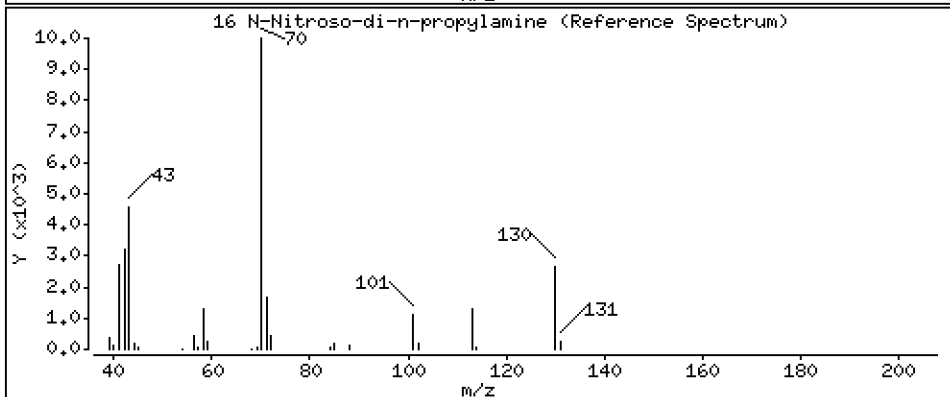
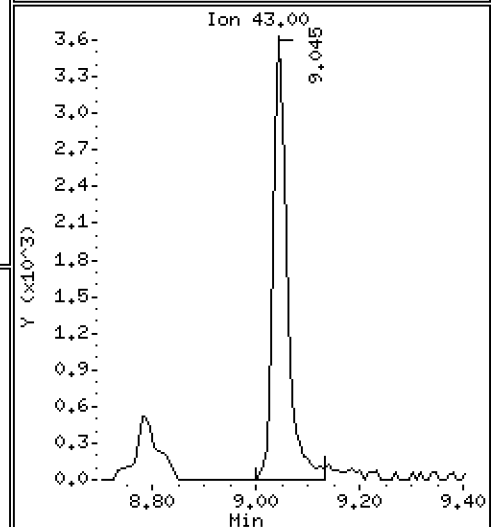
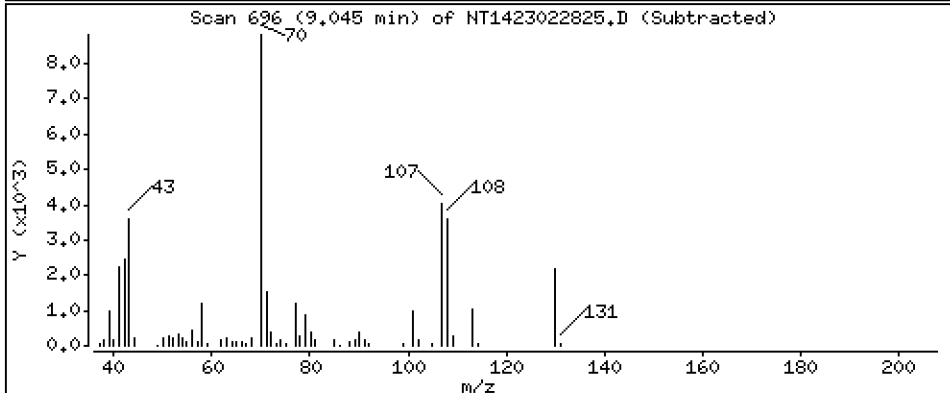
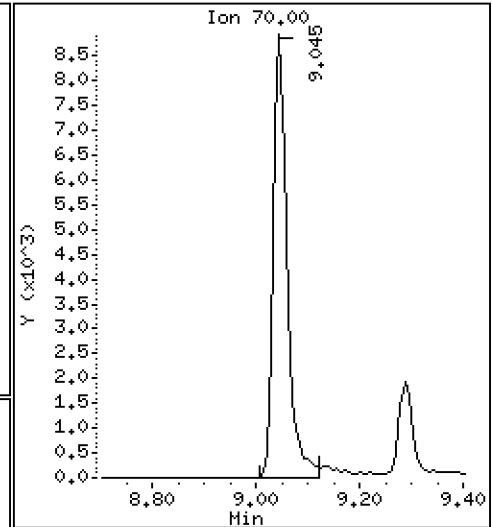
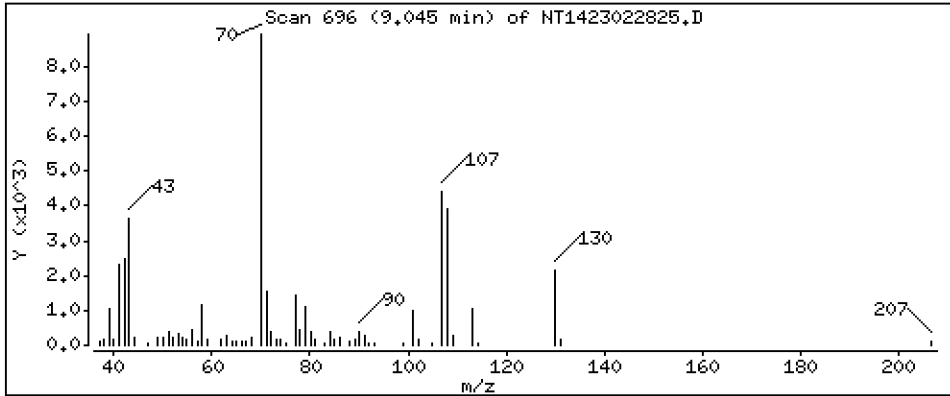
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 0.5482 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

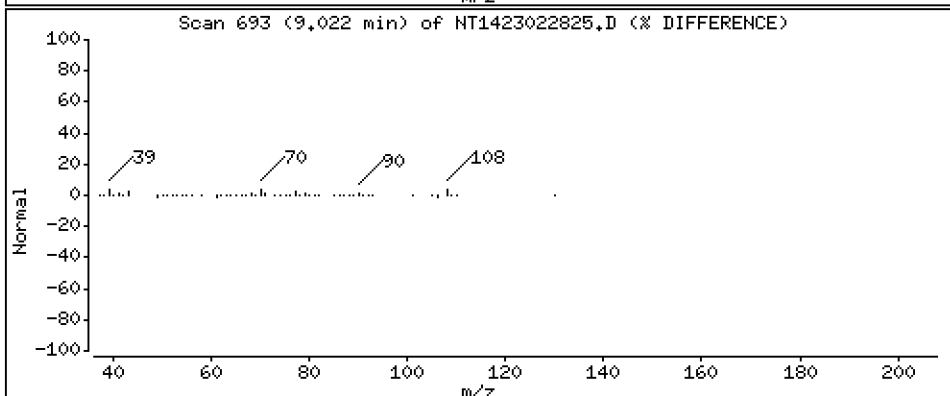
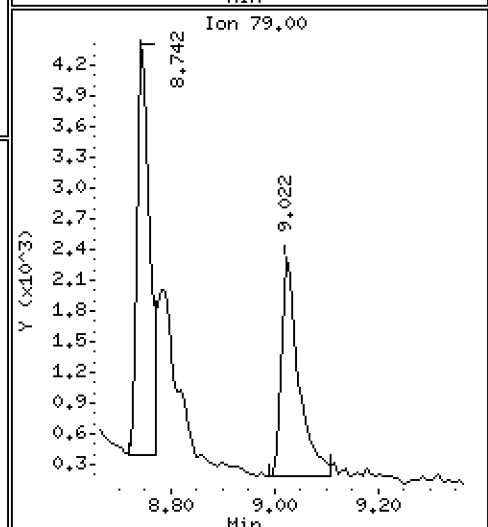
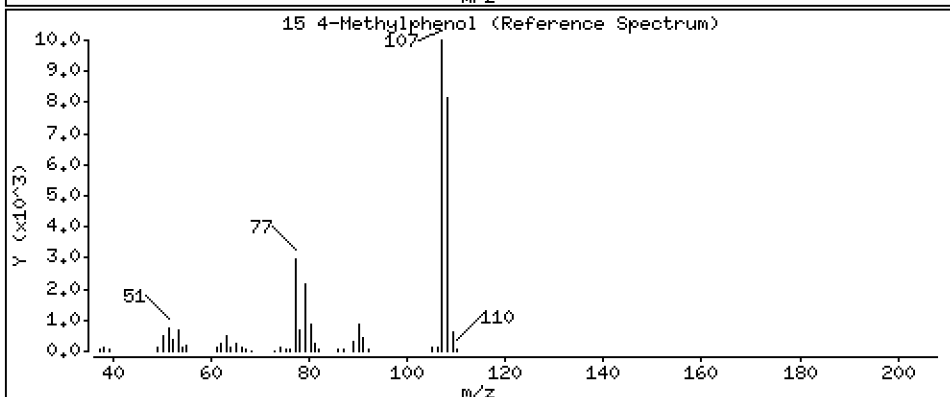
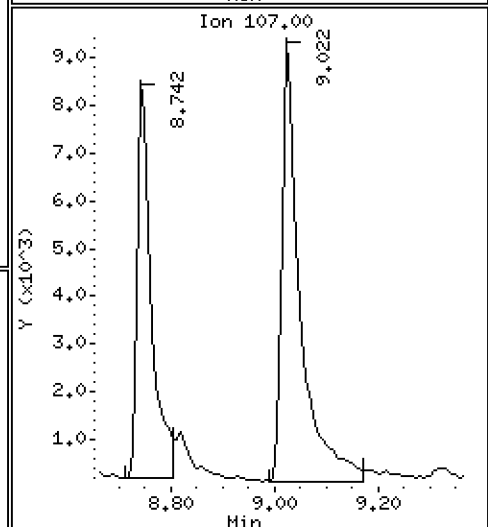
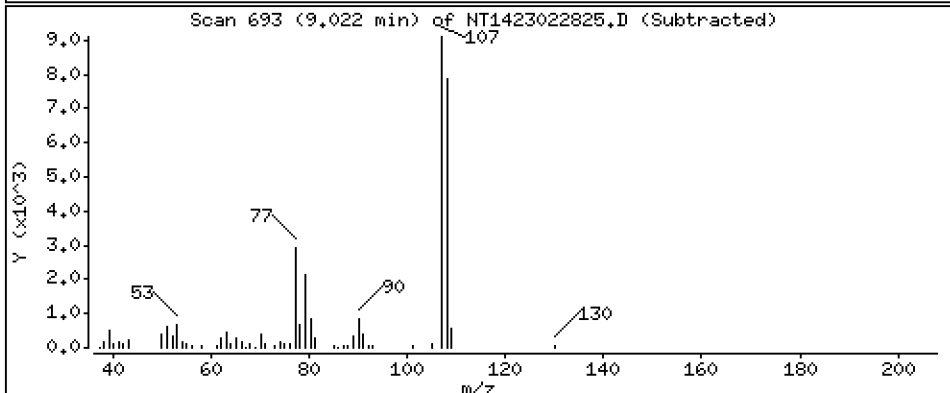
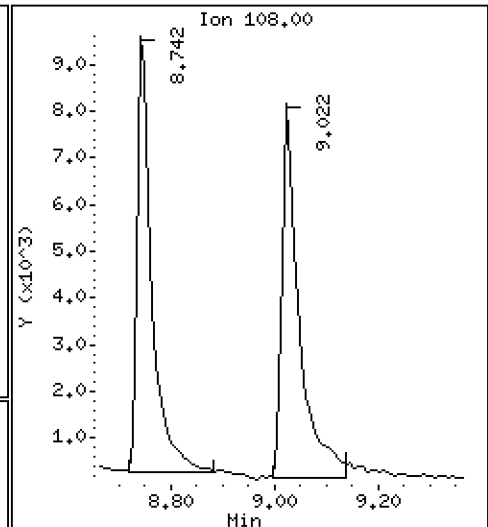
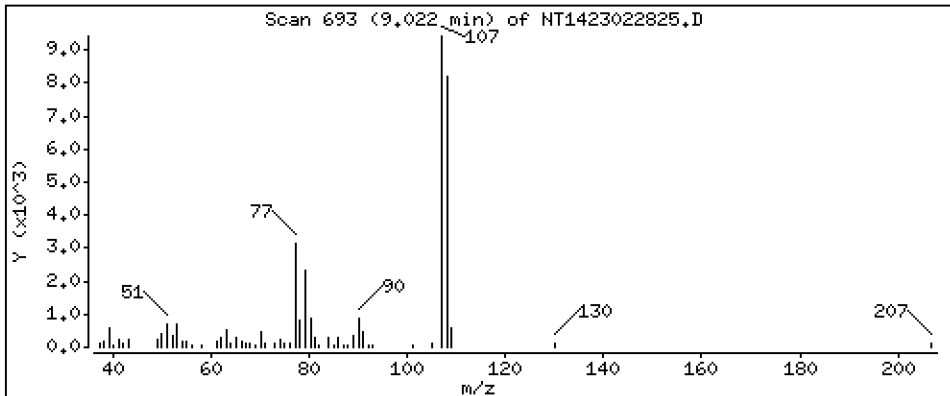
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.4219 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

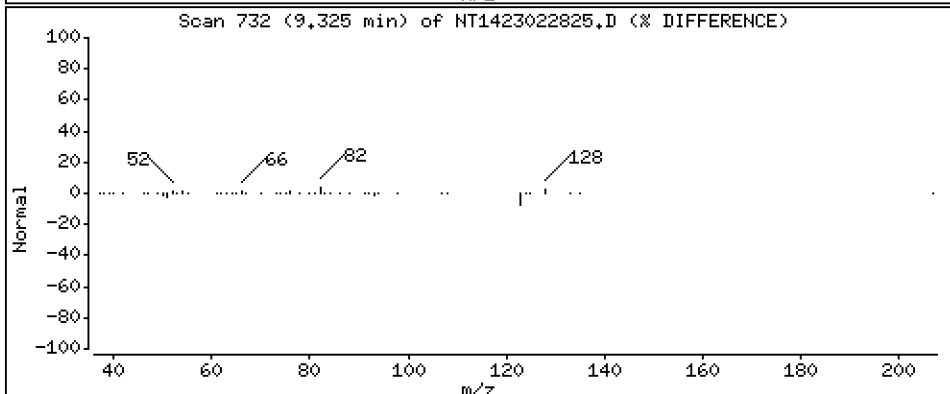
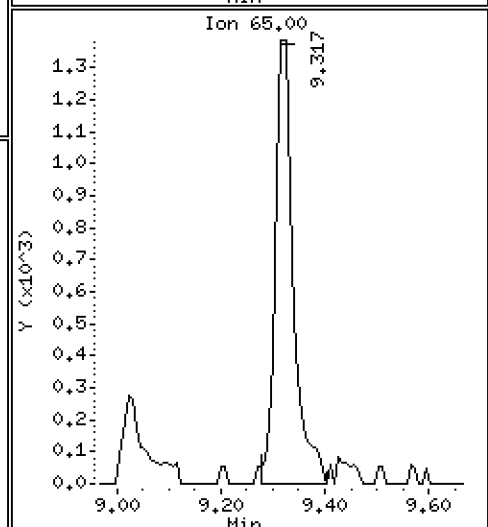
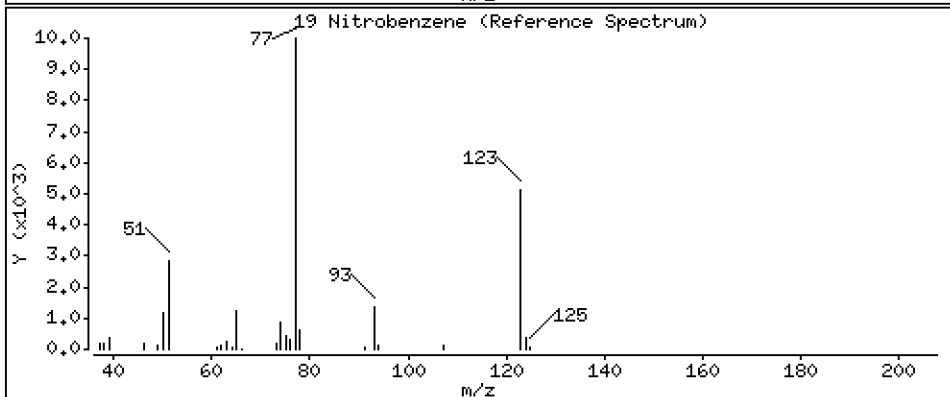
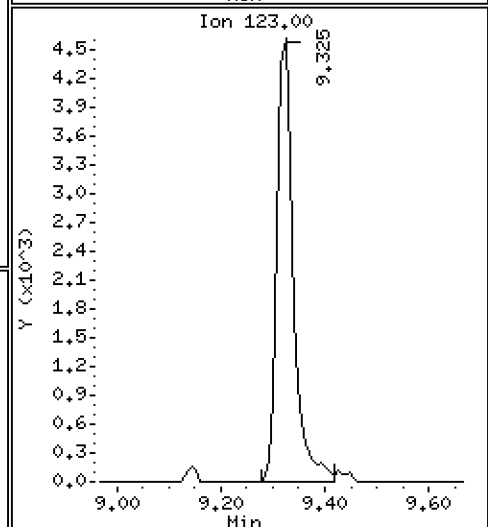
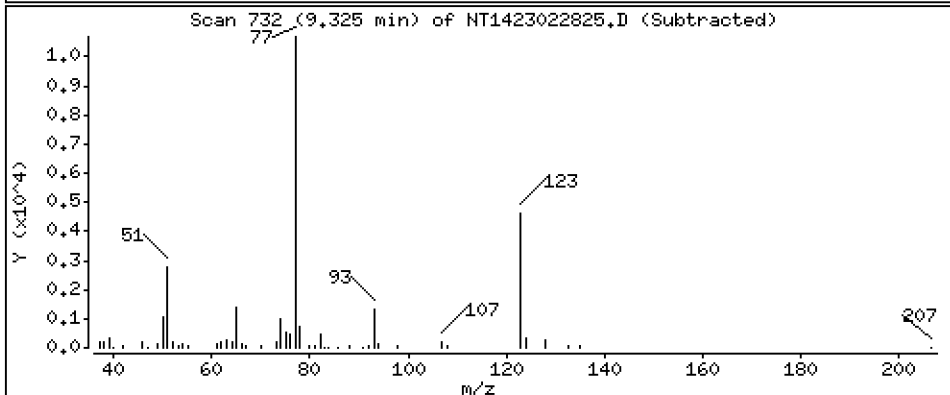
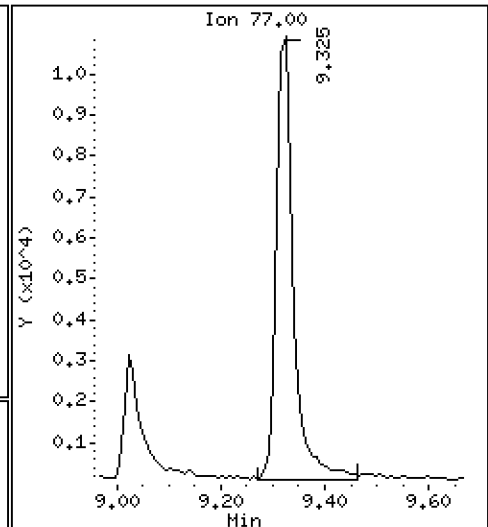
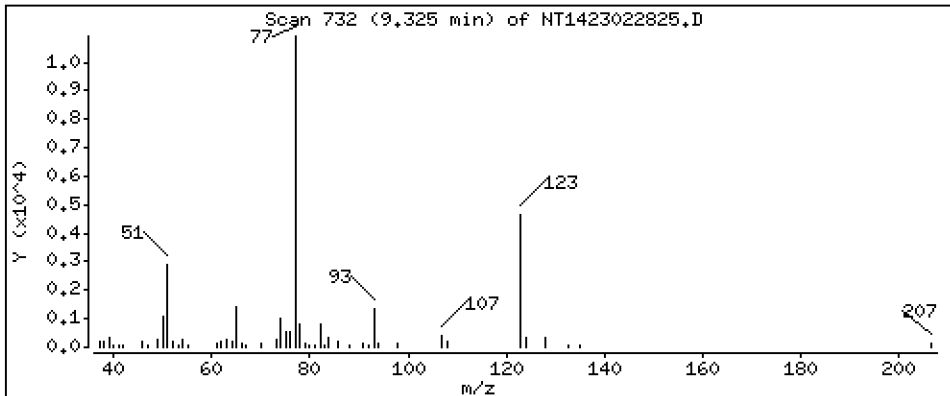
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

19 Nitrobenzene

Concentration: 0.5504 ug/mL





Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

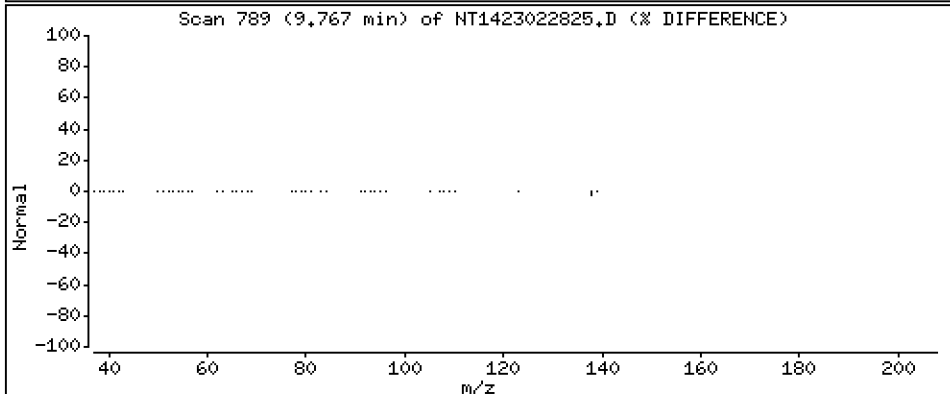
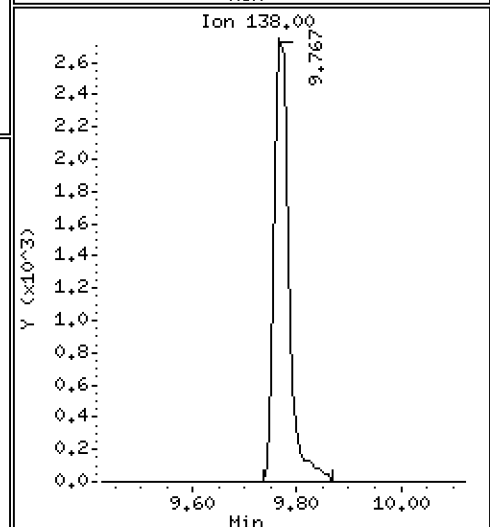
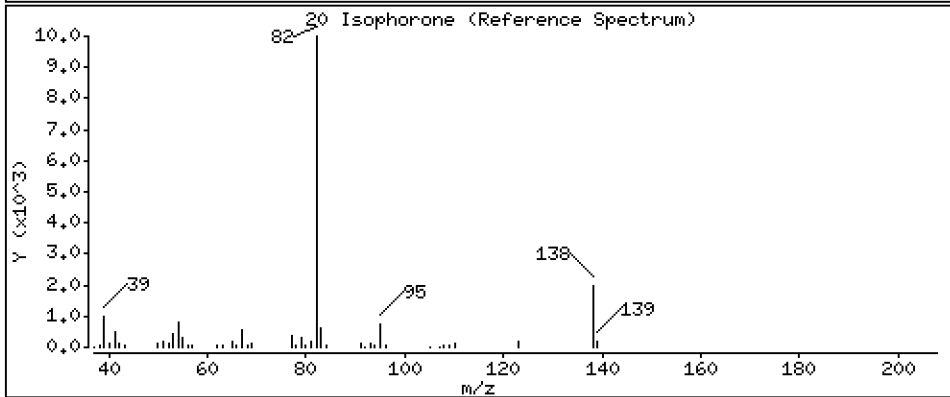
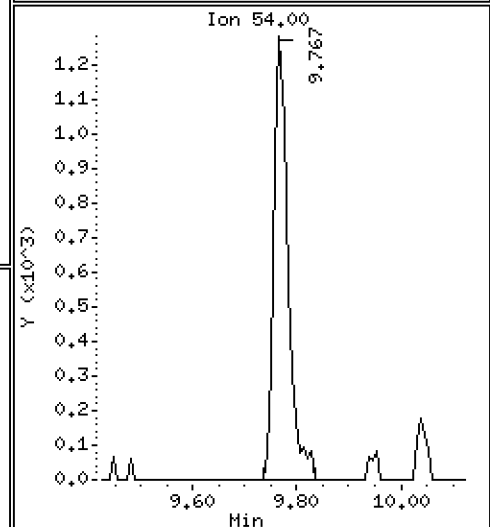
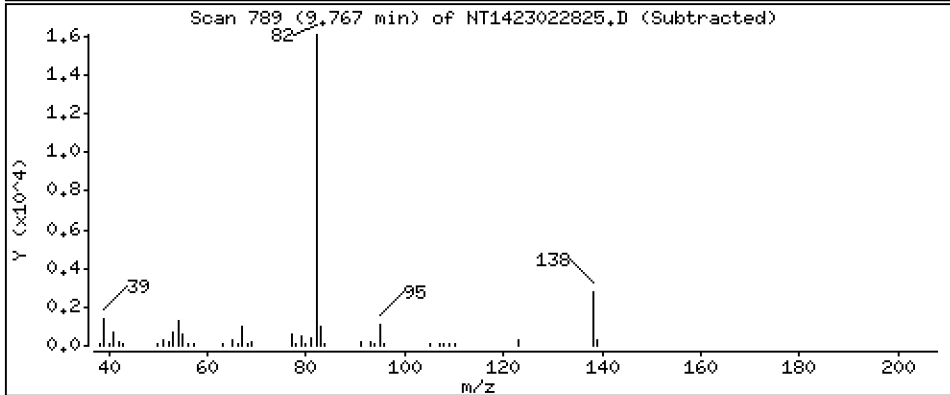
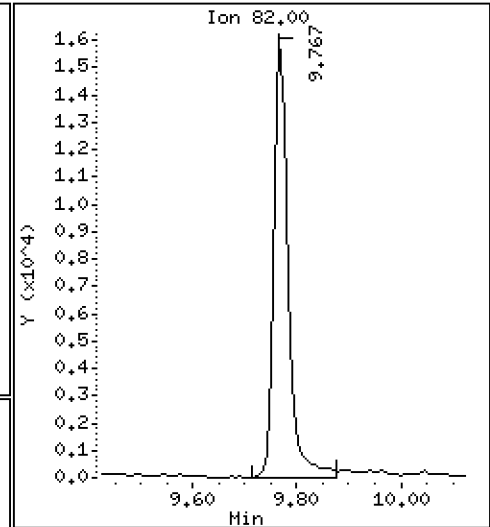
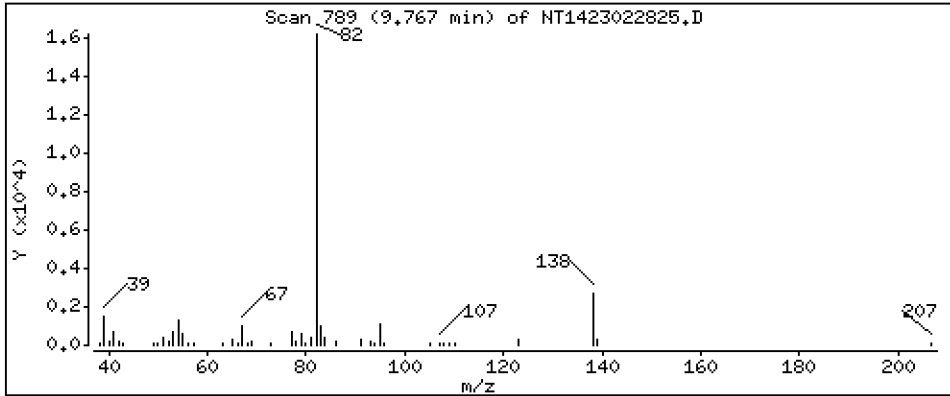
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.4338 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

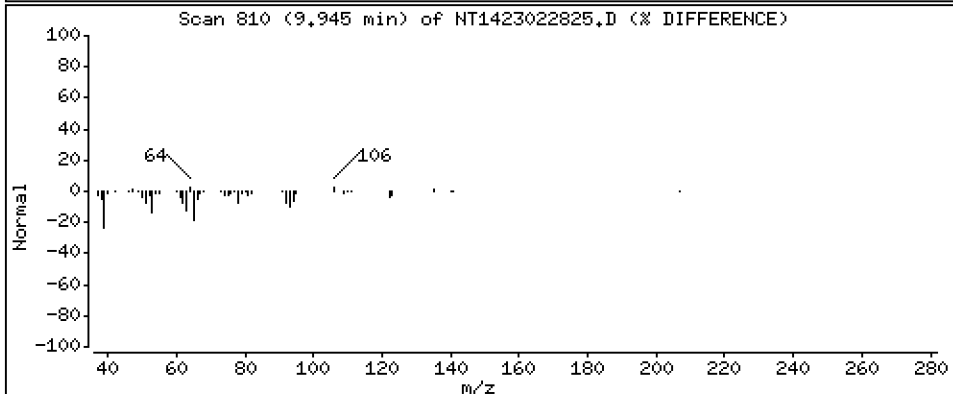
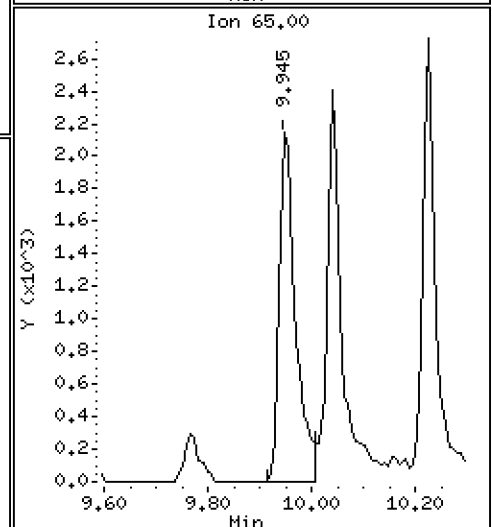
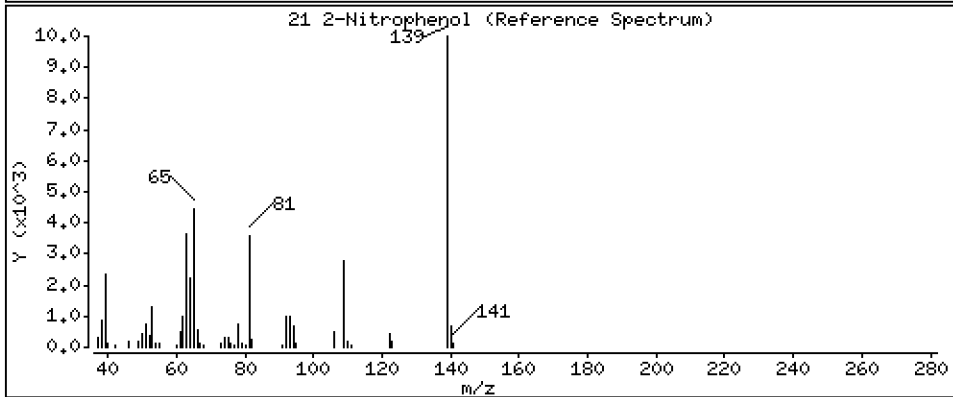
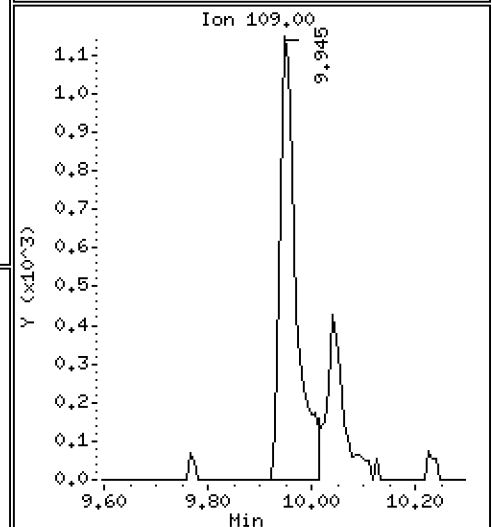
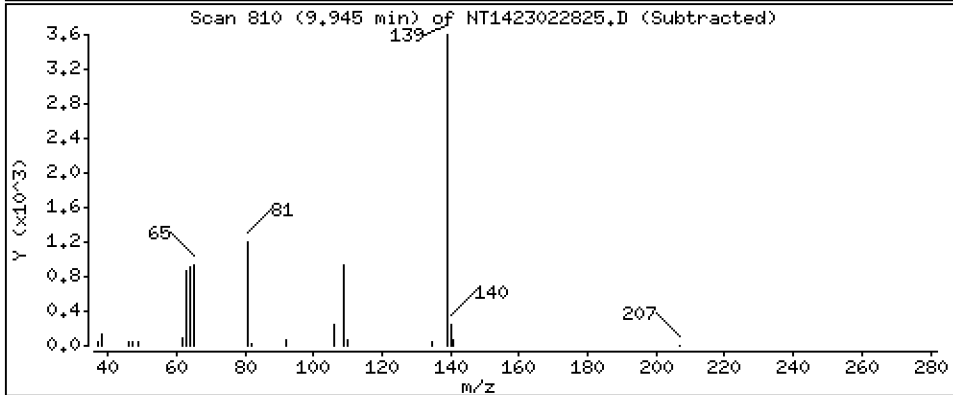
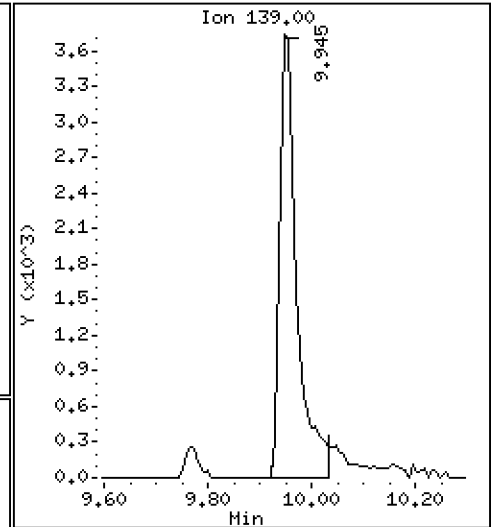
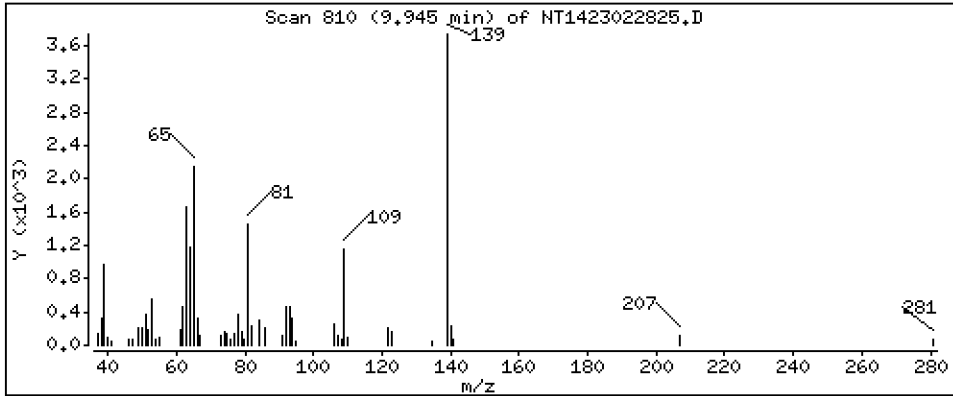
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,3734 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

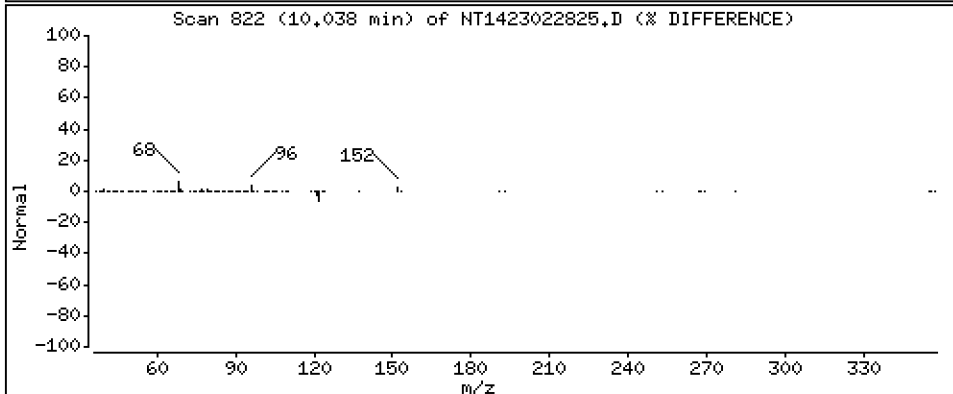
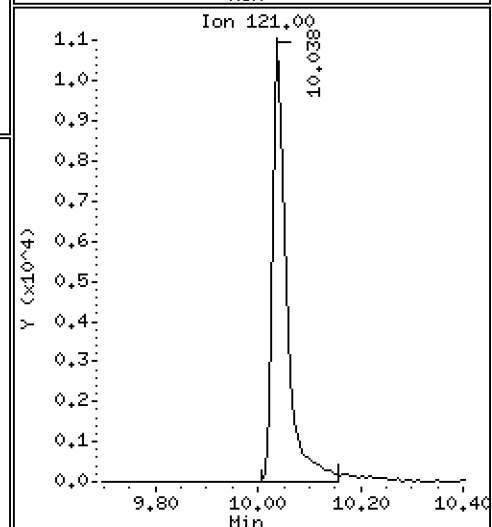
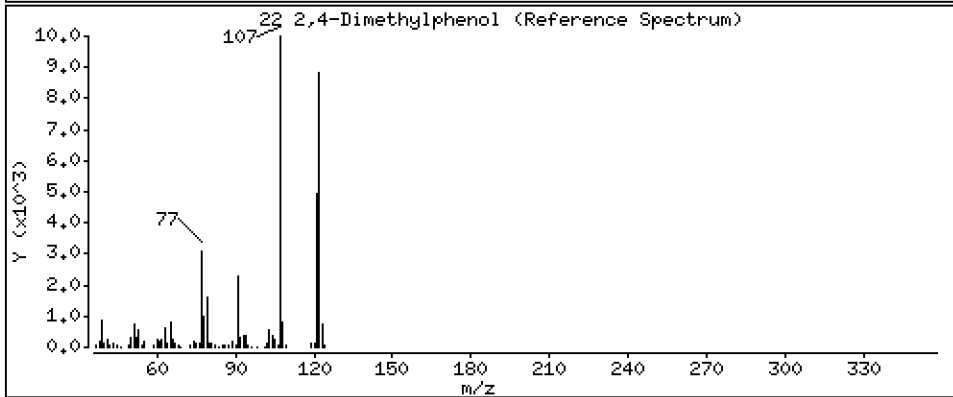
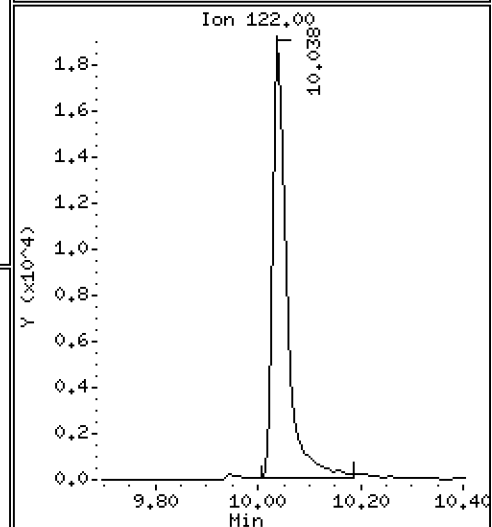
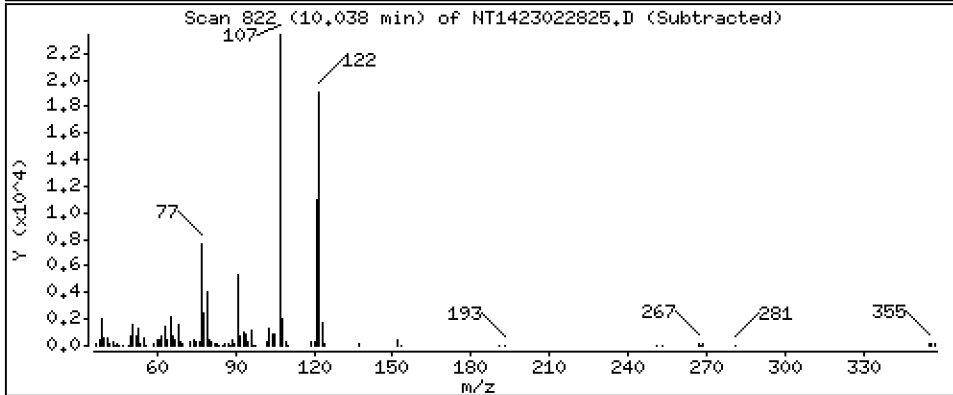
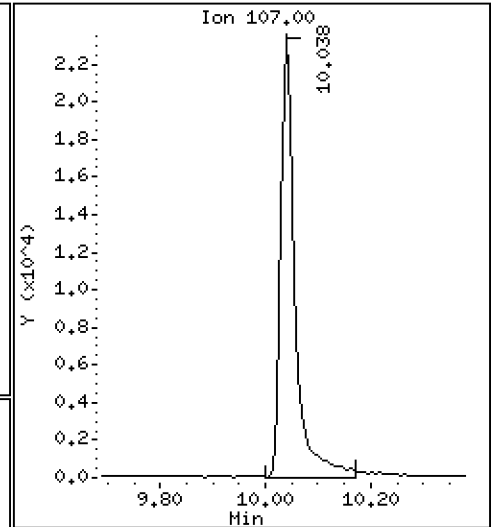
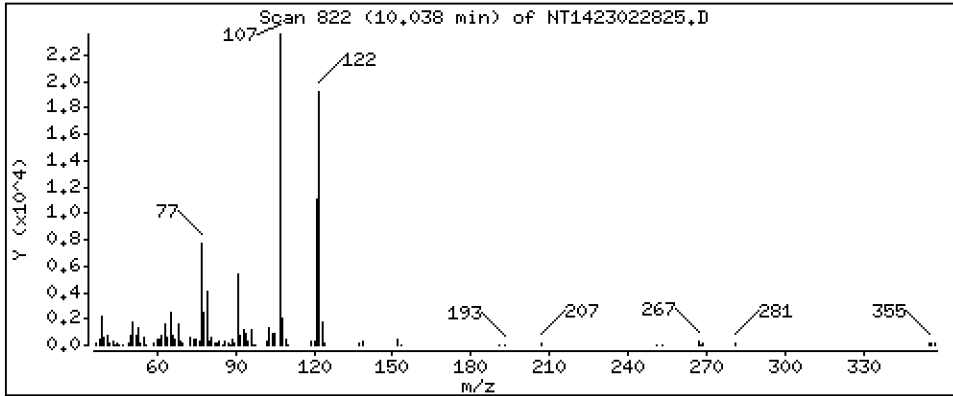
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 1,096 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

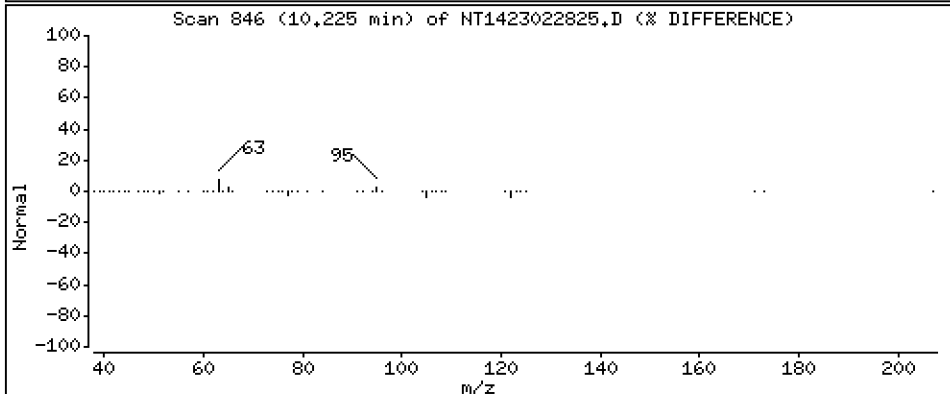
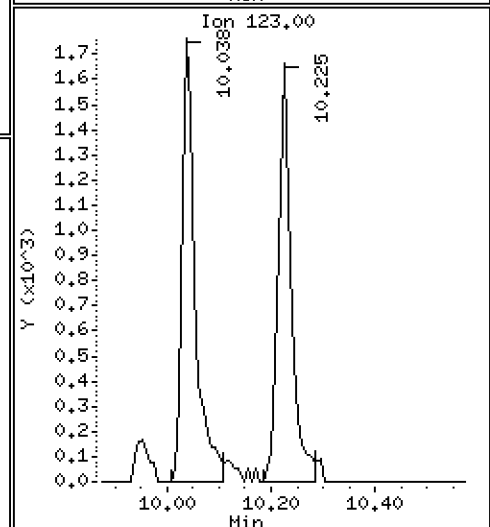
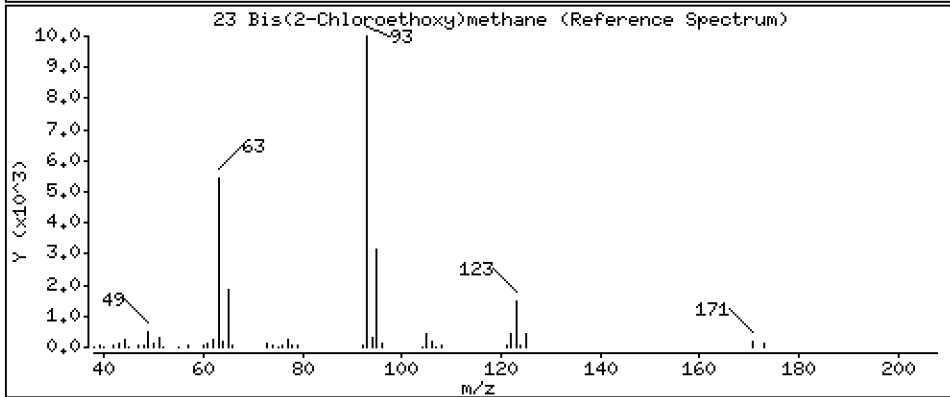
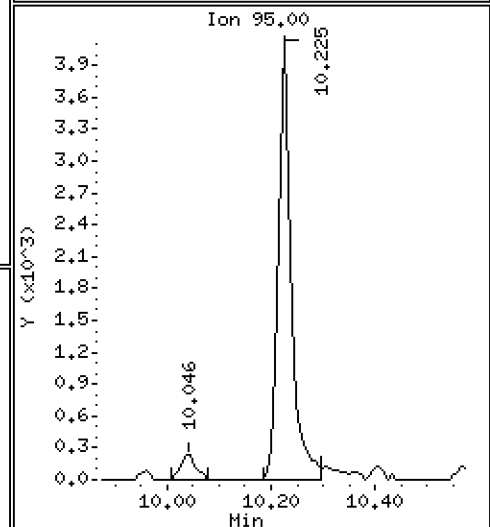
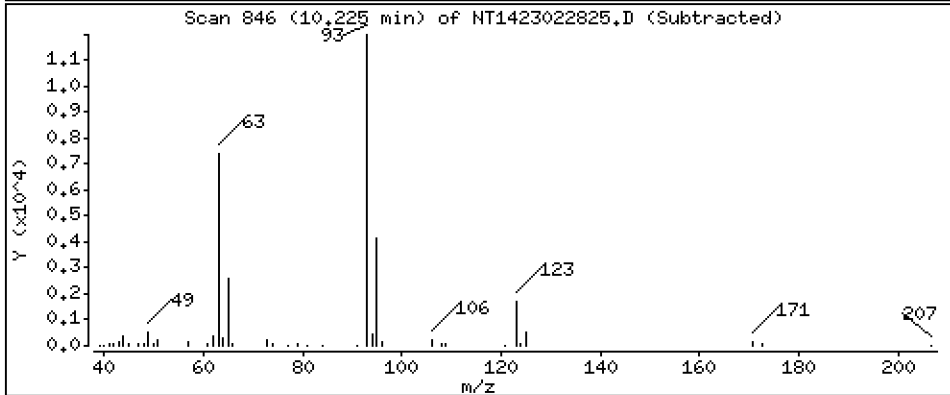
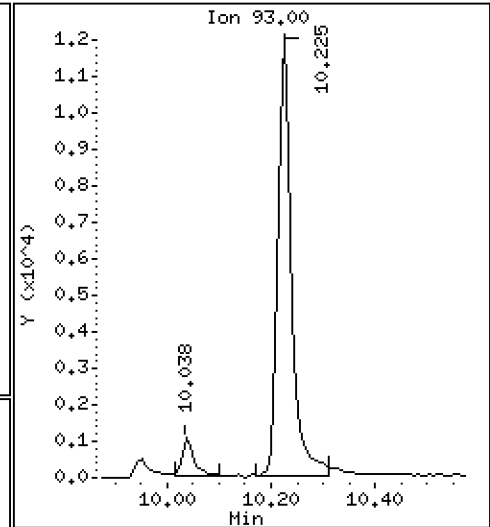
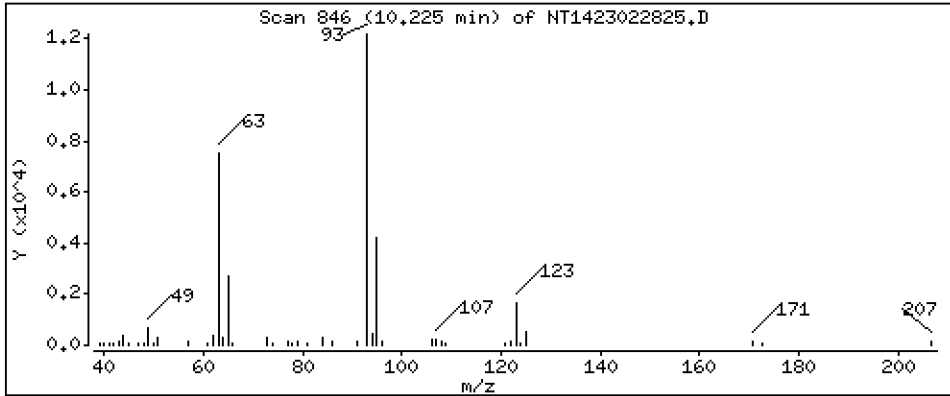
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 0.4979 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

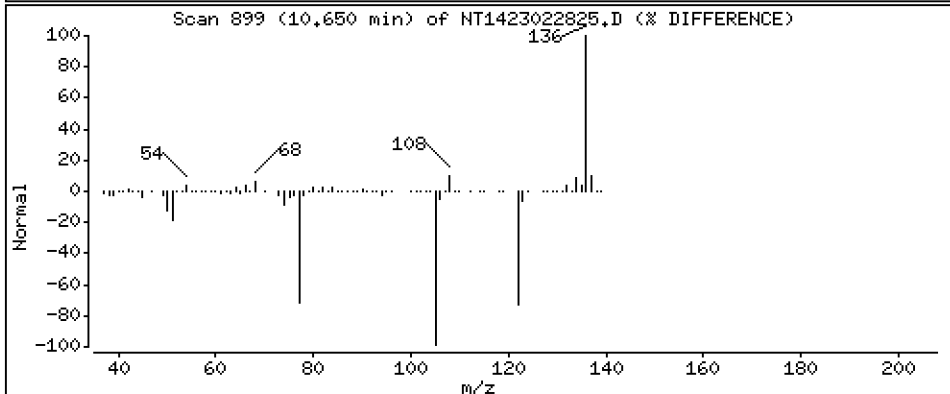
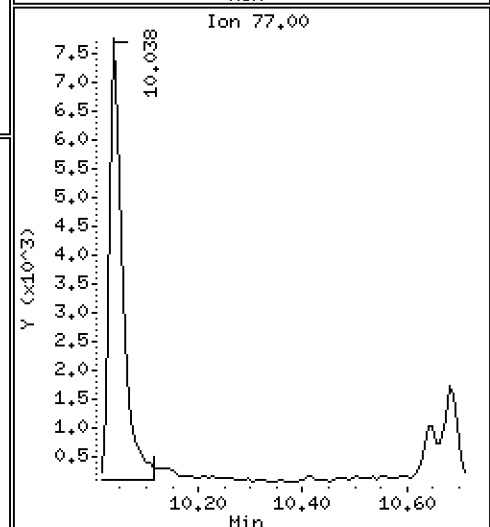
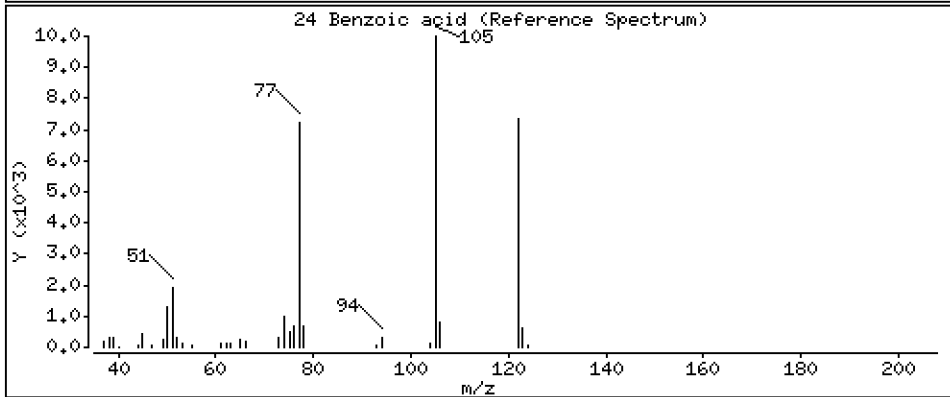
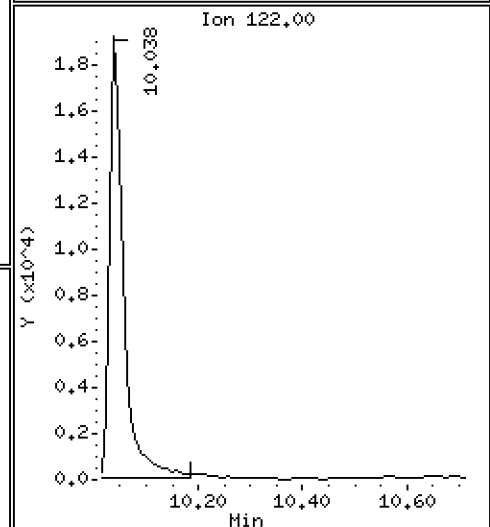
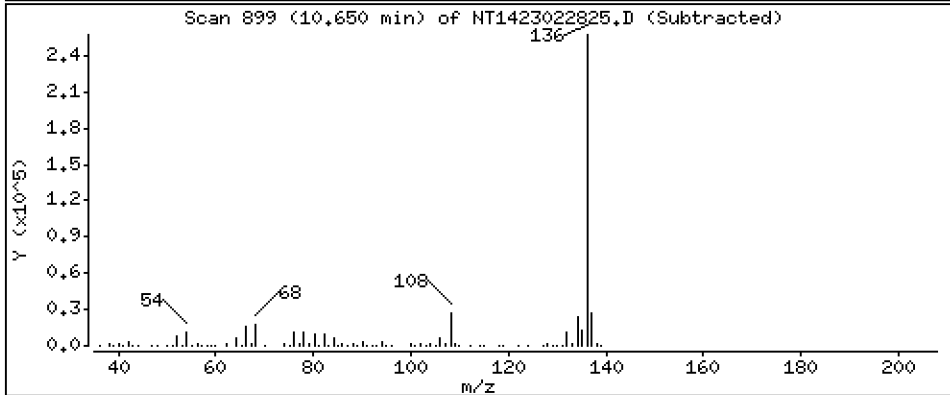
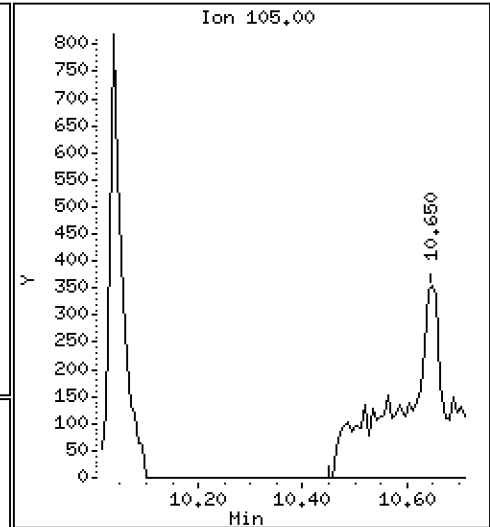
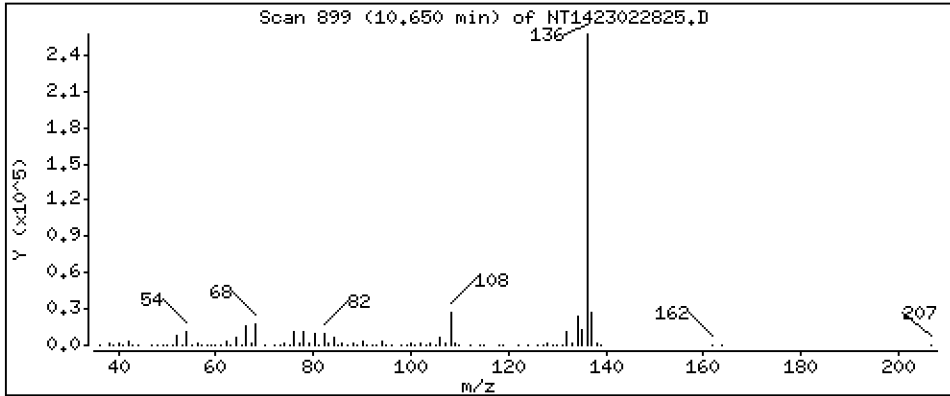
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,5672 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

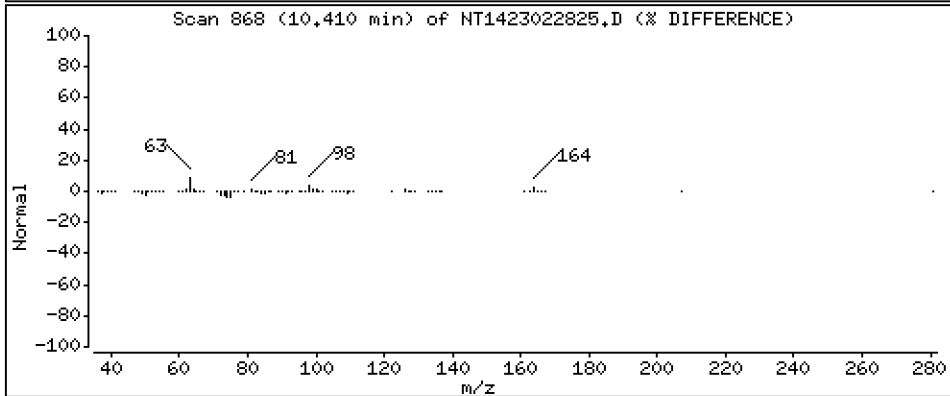
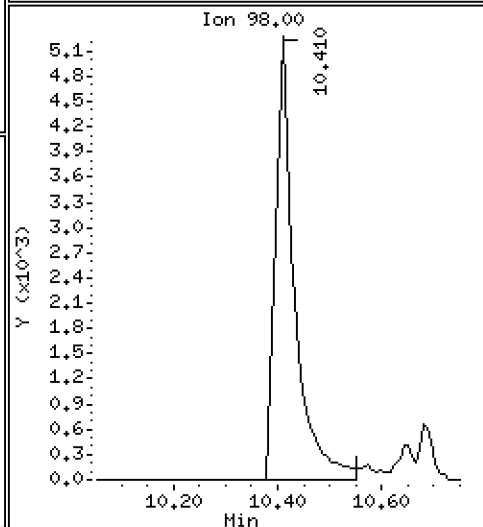
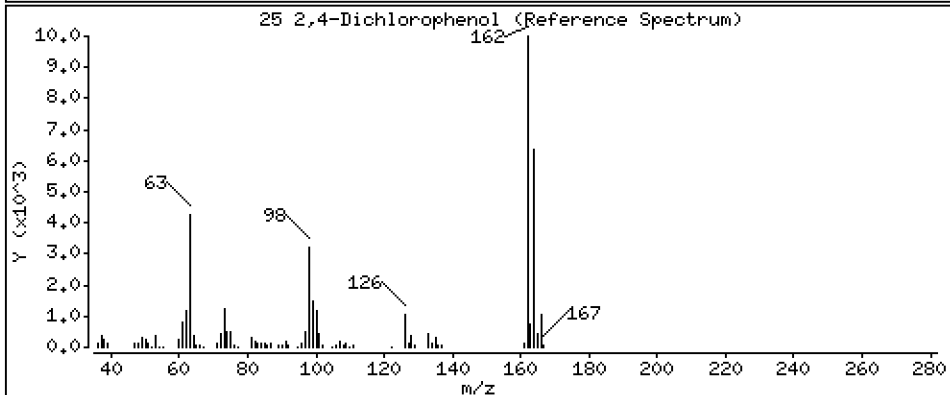
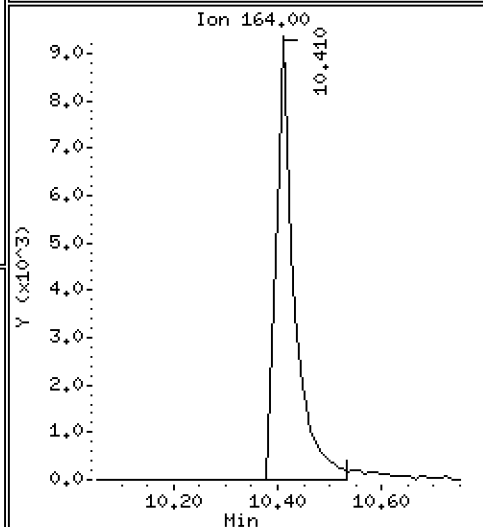
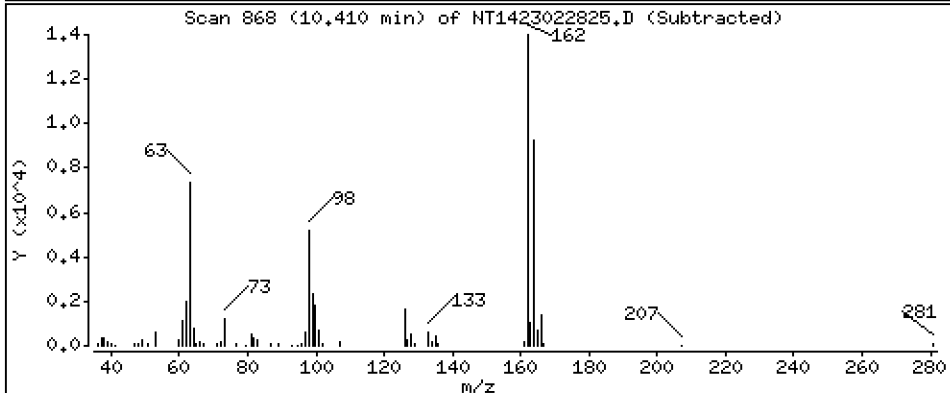
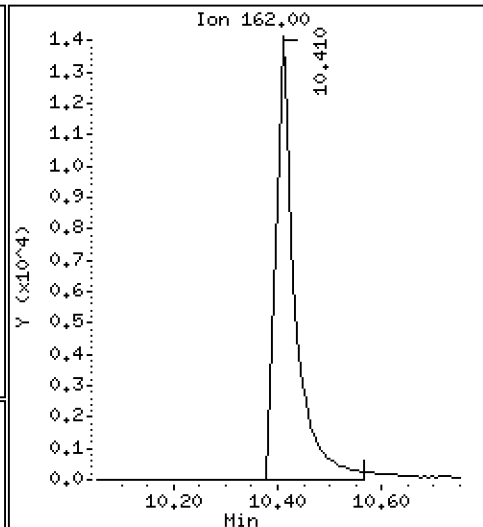
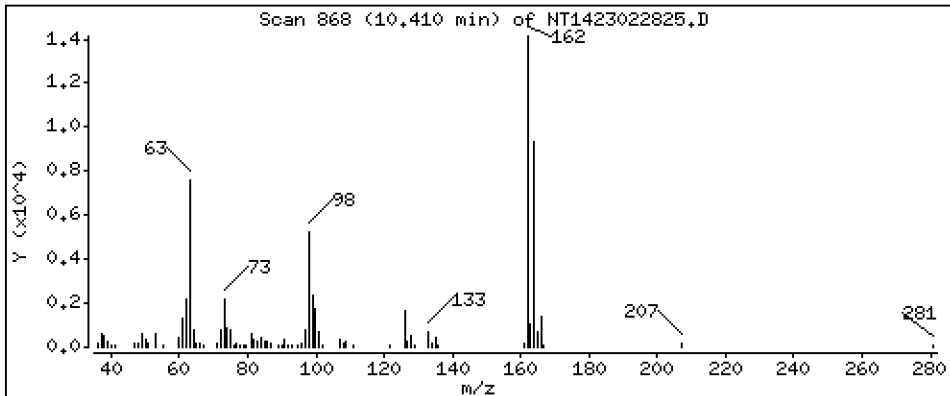
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,8589 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

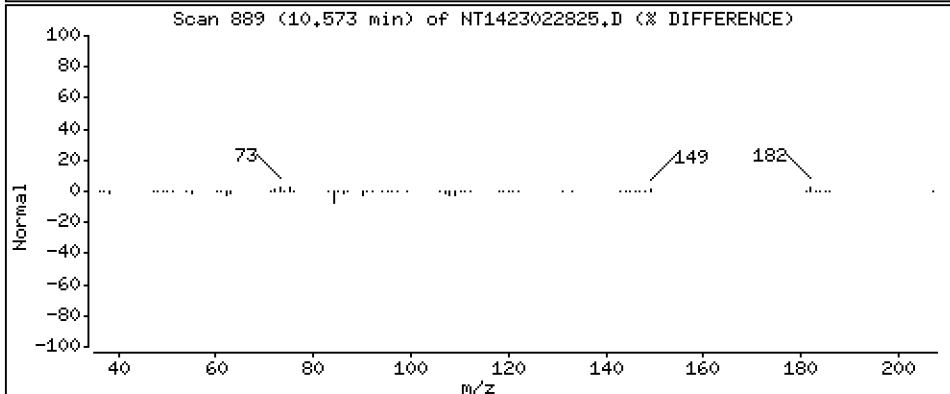
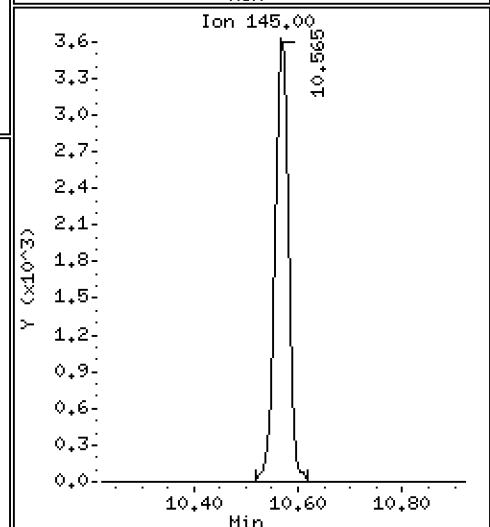
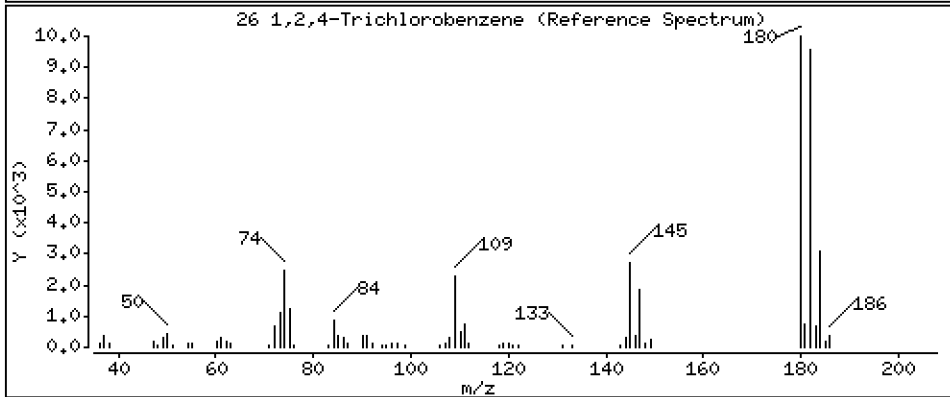
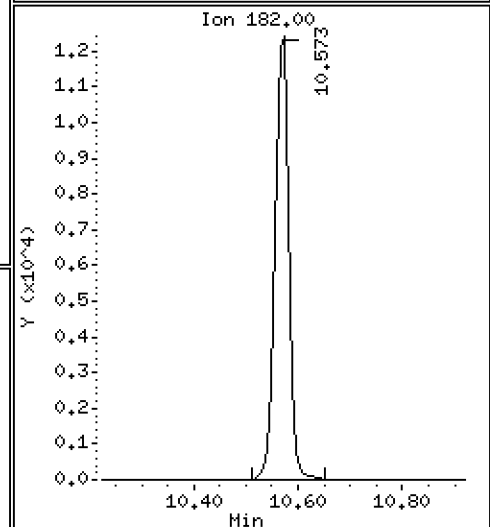
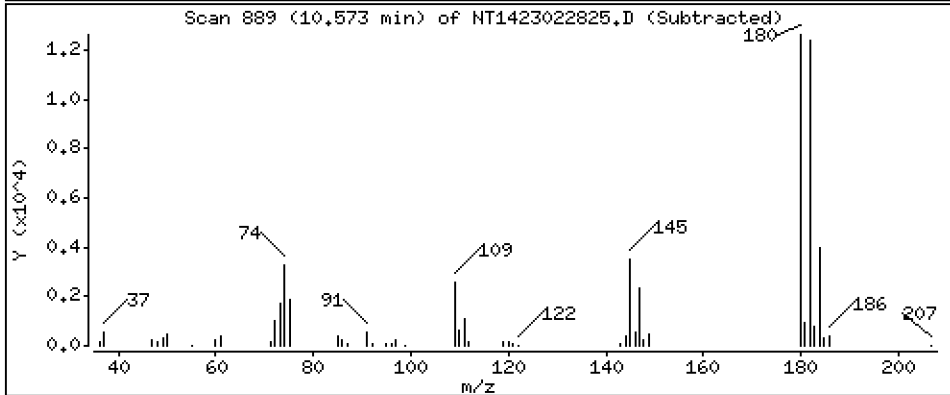
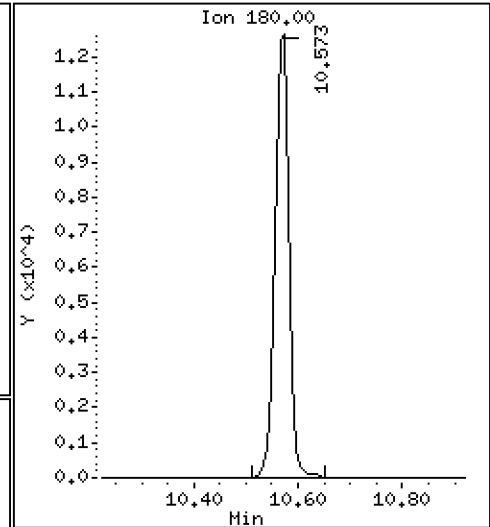
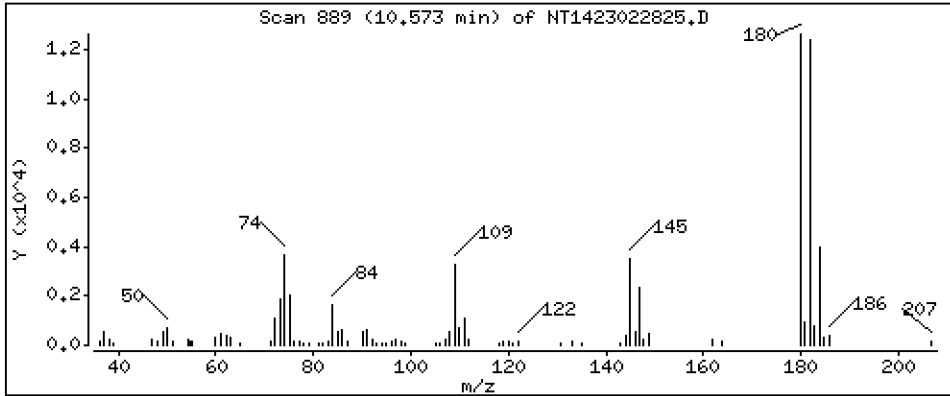
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,5059 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

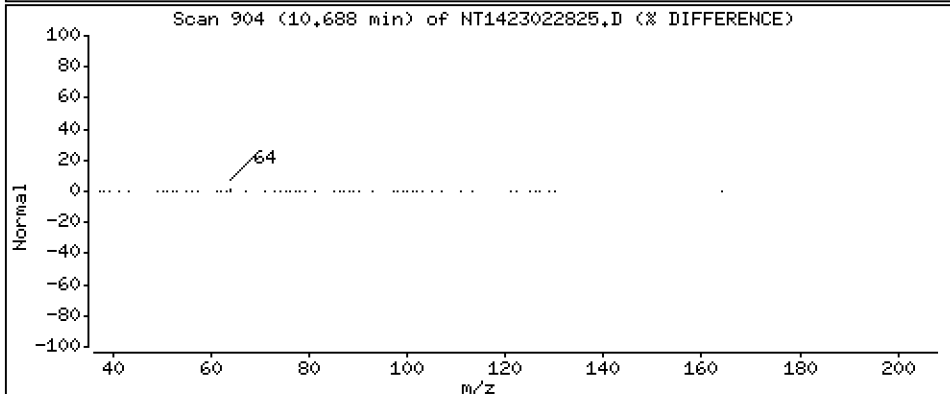
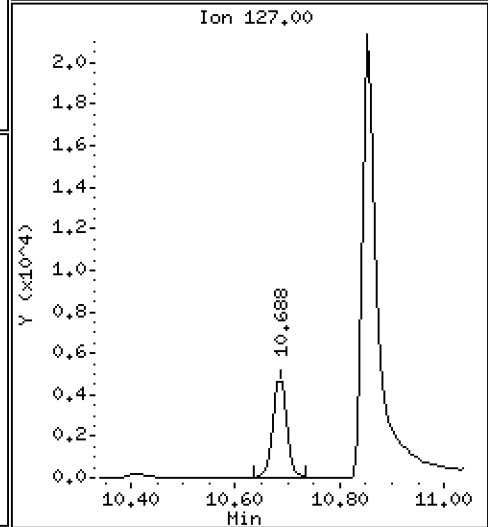
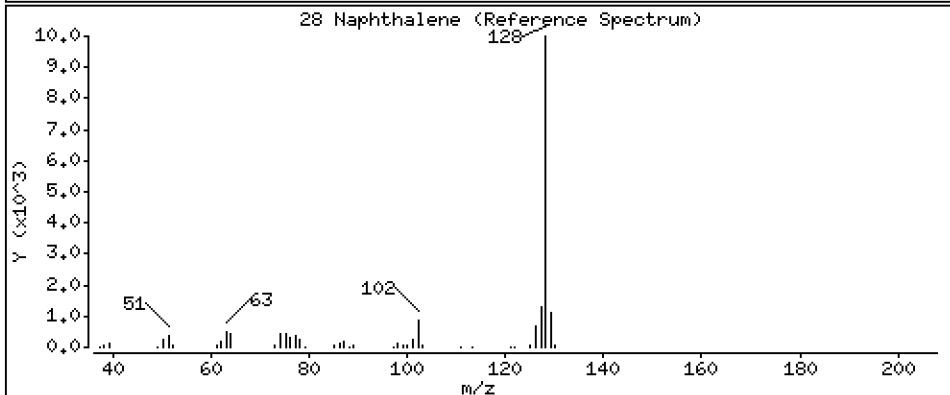
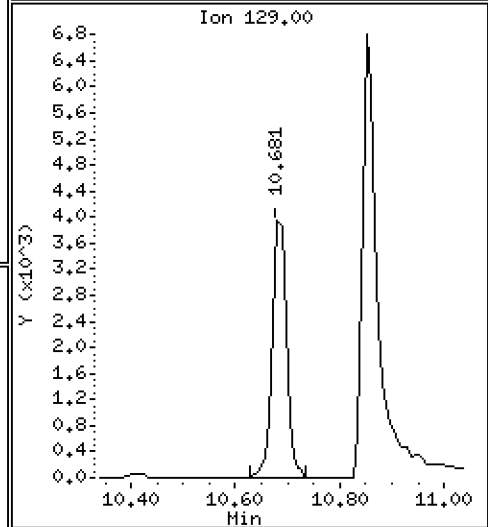
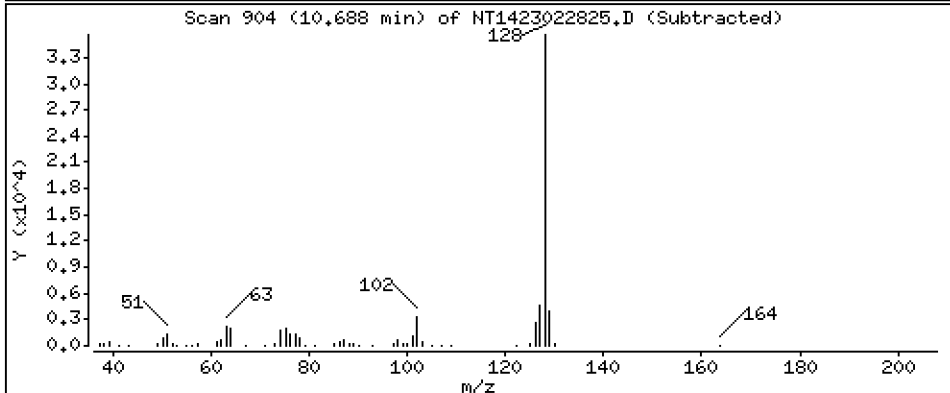
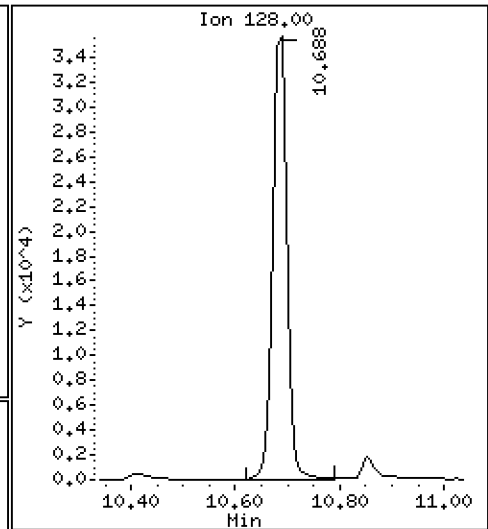
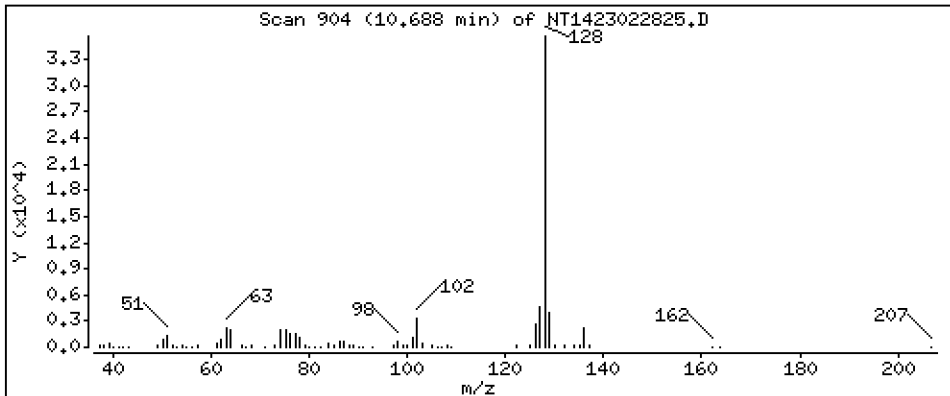
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,5298 ug/mL





Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

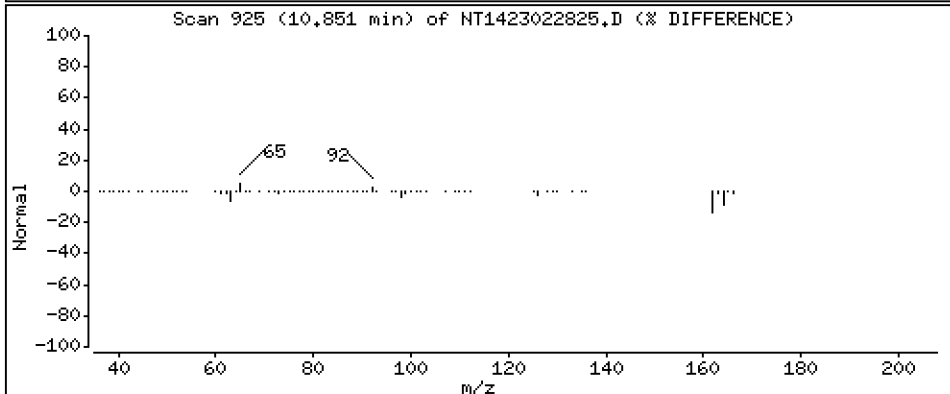
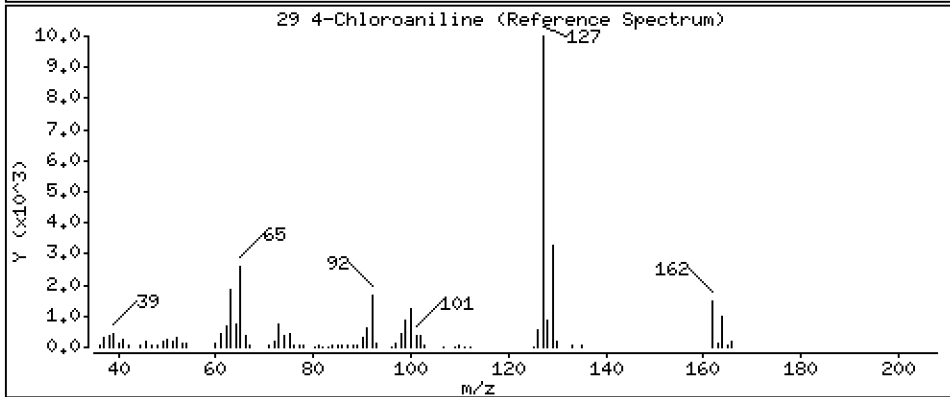
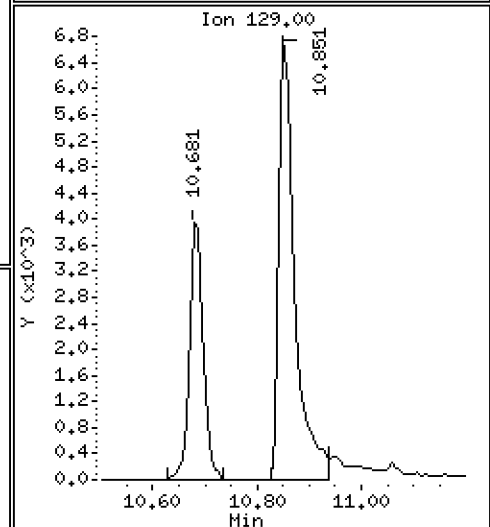
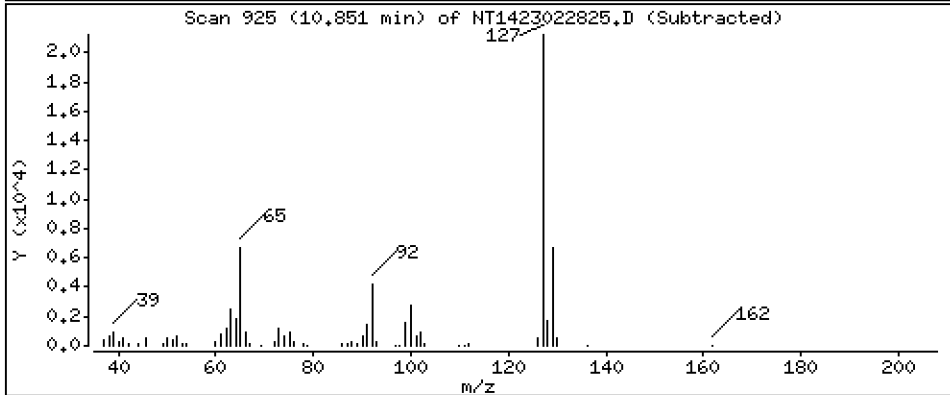
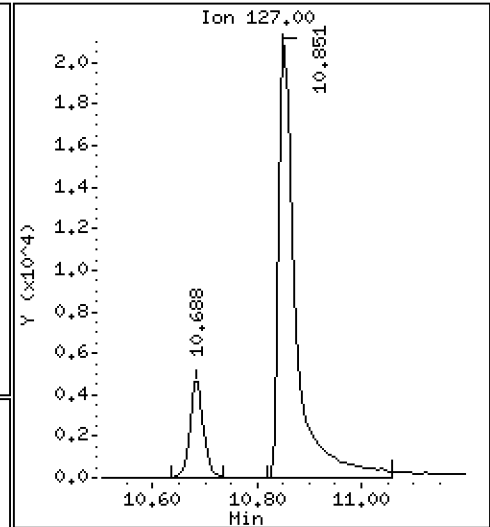
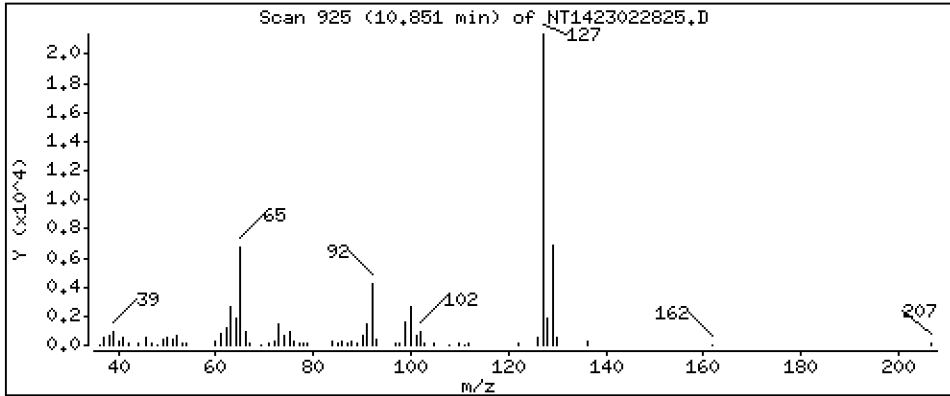
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,9465 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

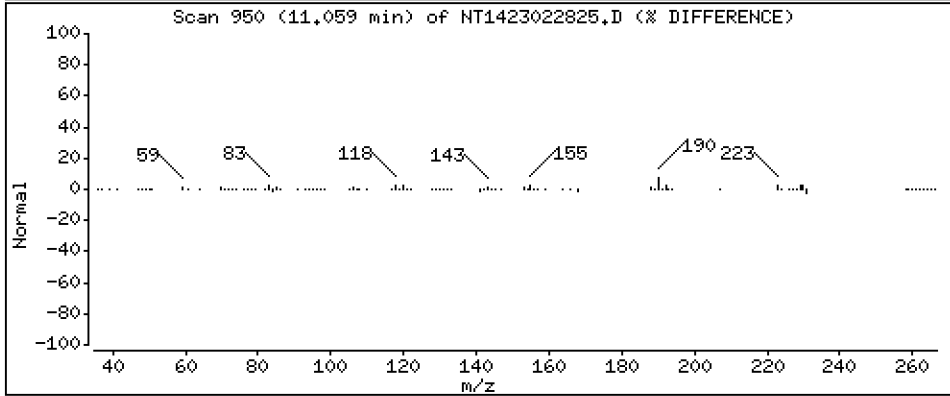
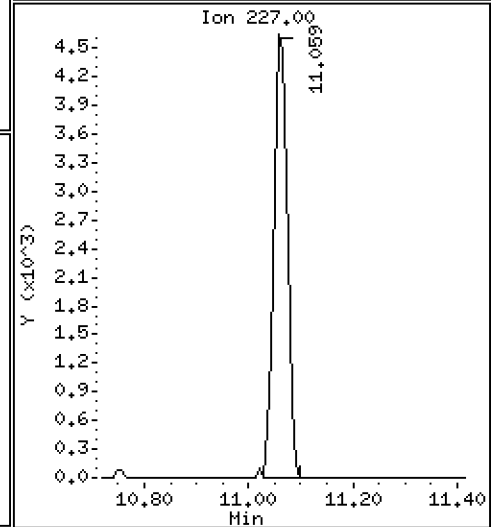
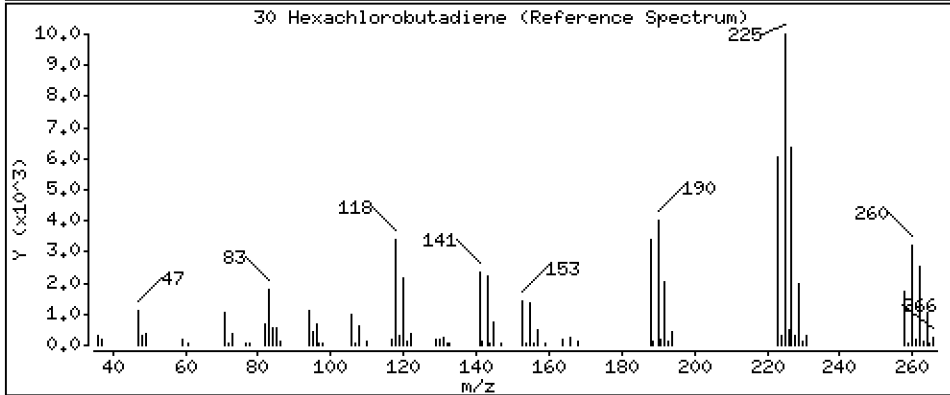
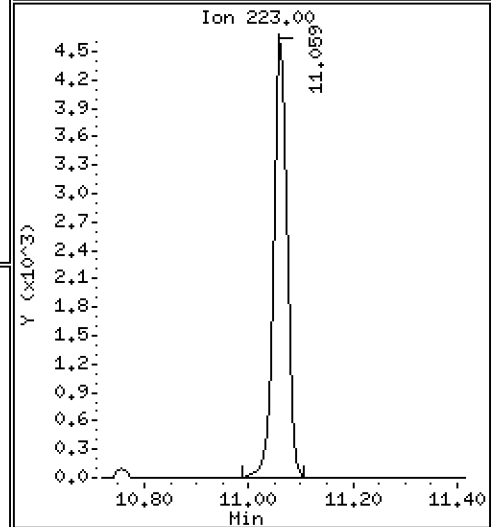
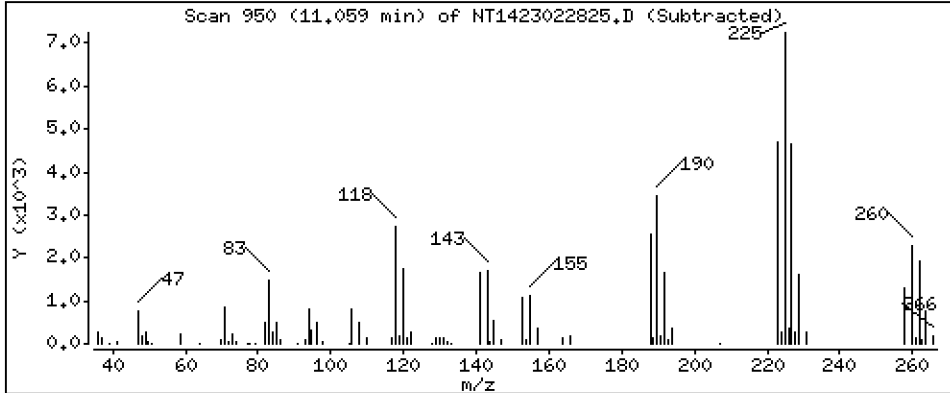
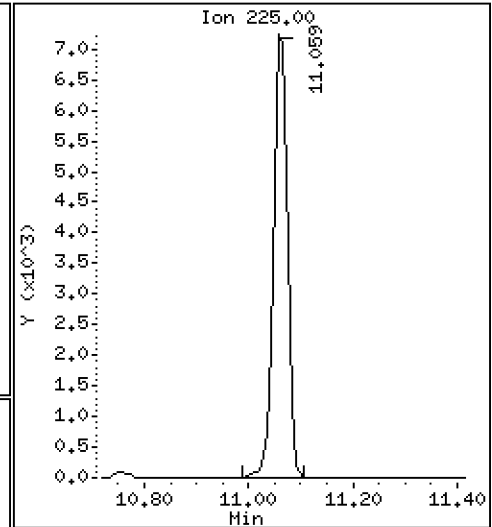
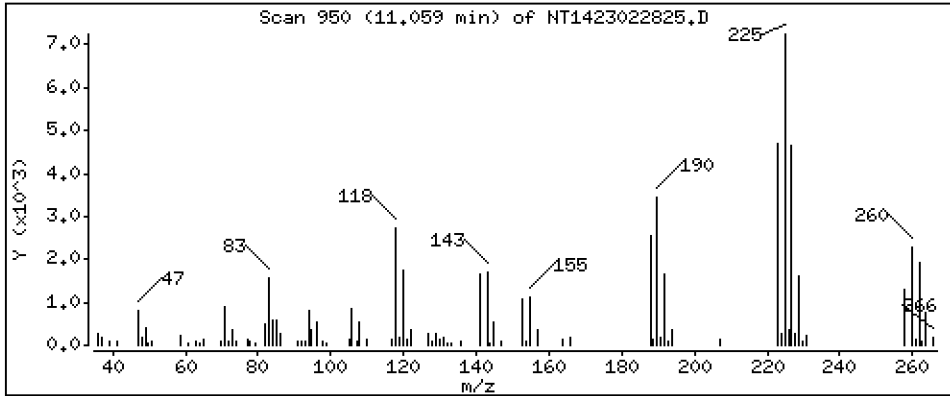
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,5495 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

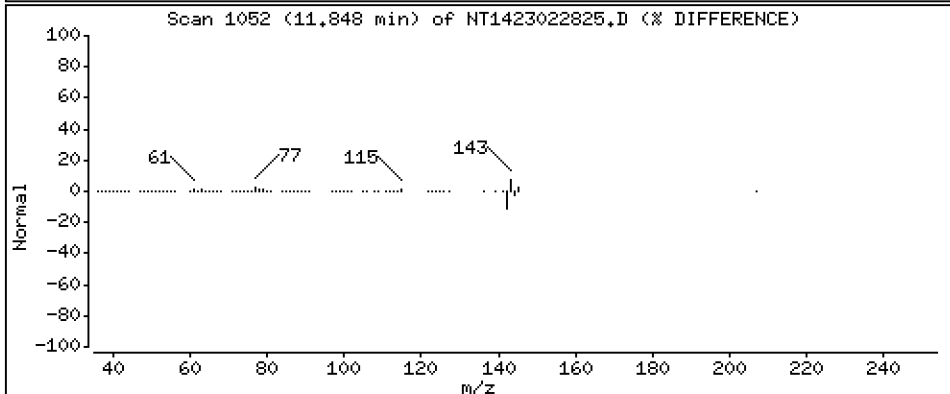
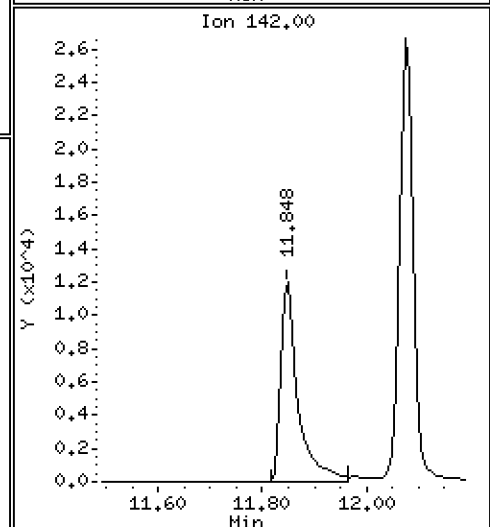
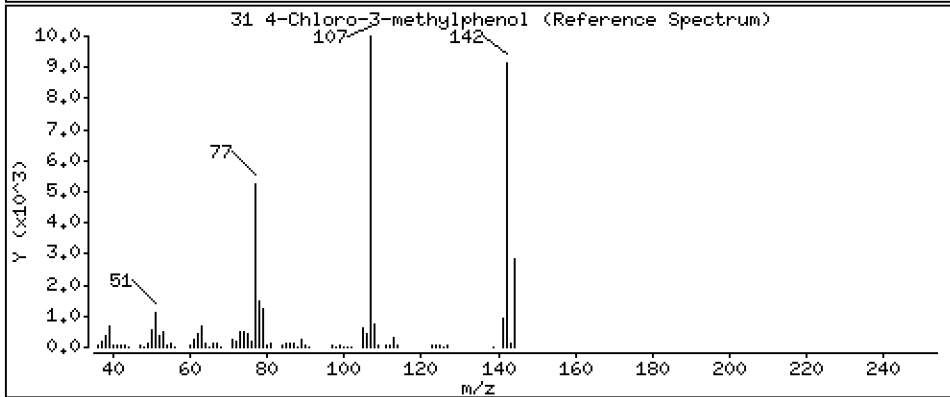
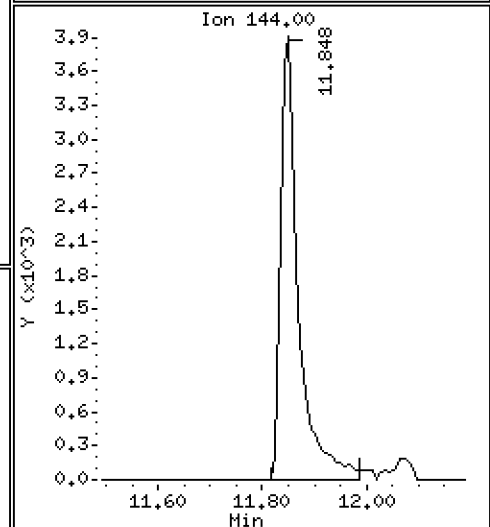
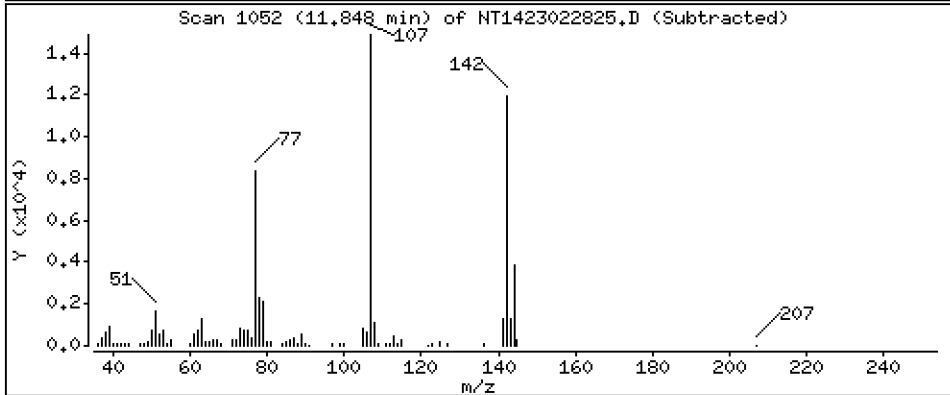
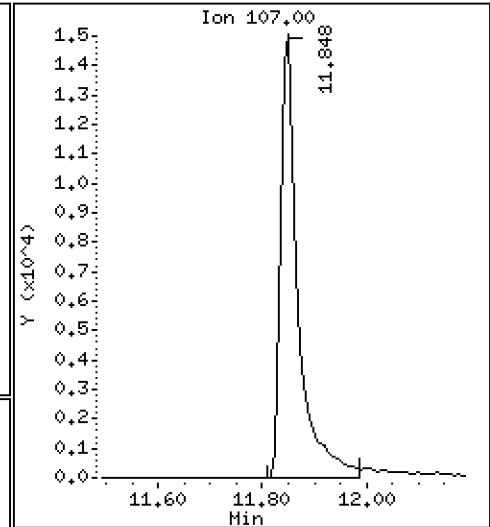
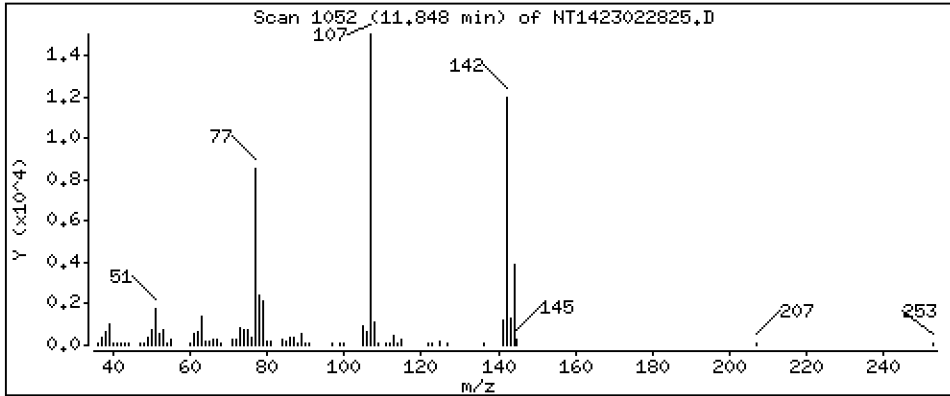
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,9723 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

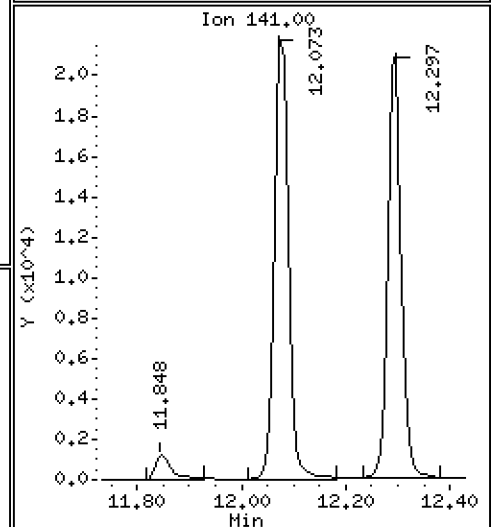
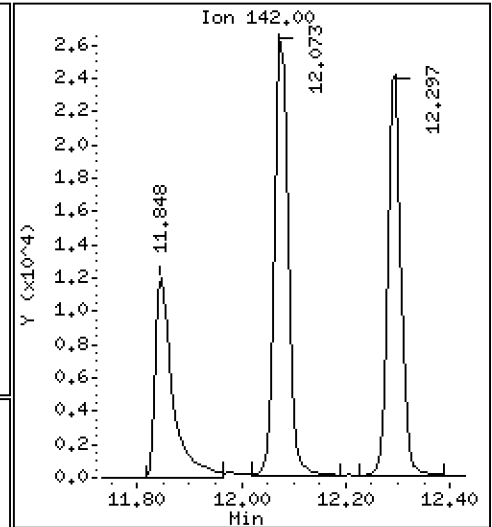
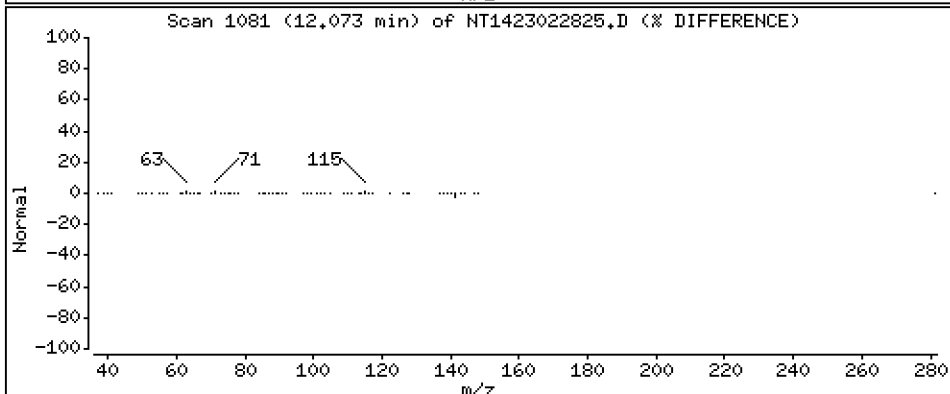
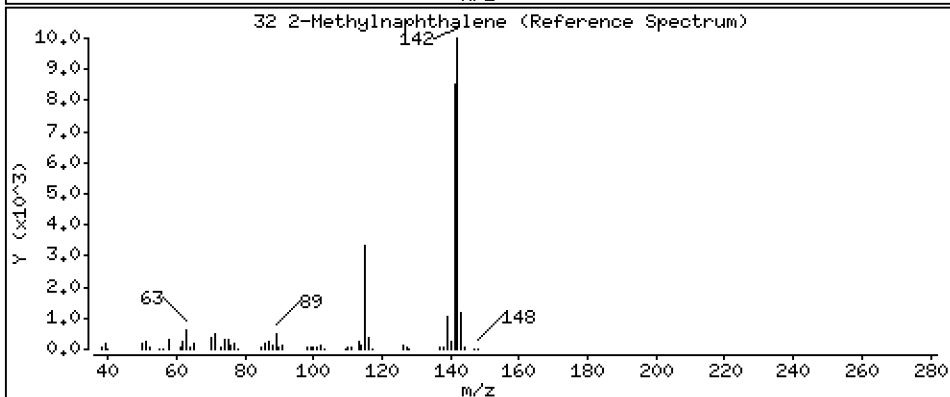
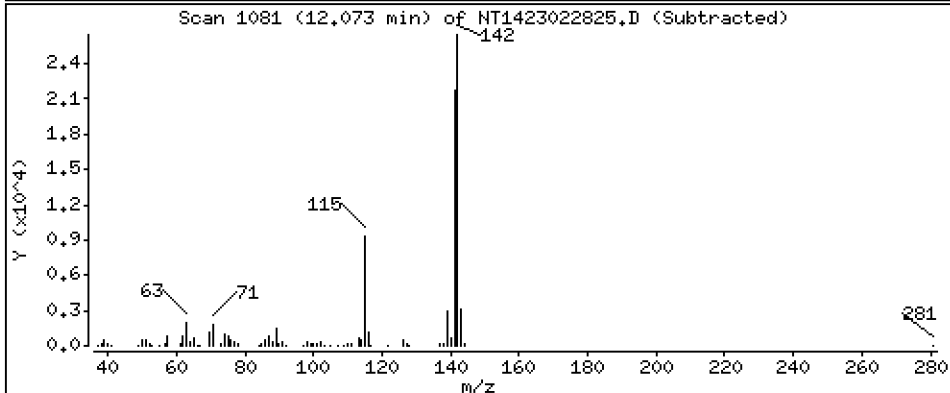
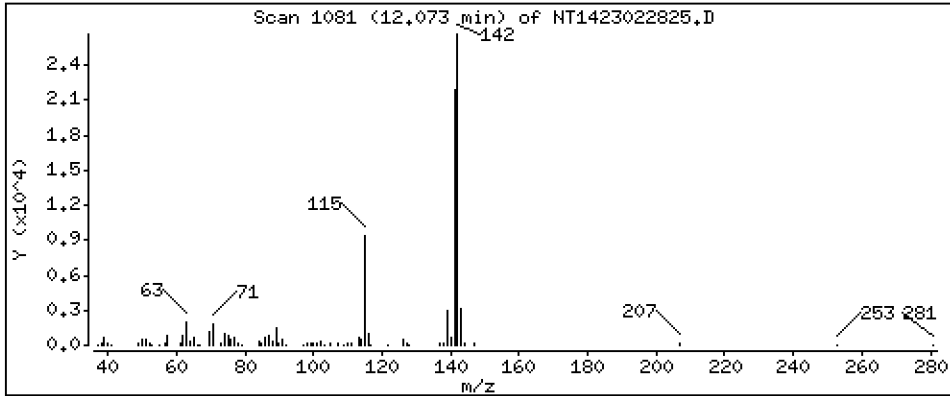
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,5070 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

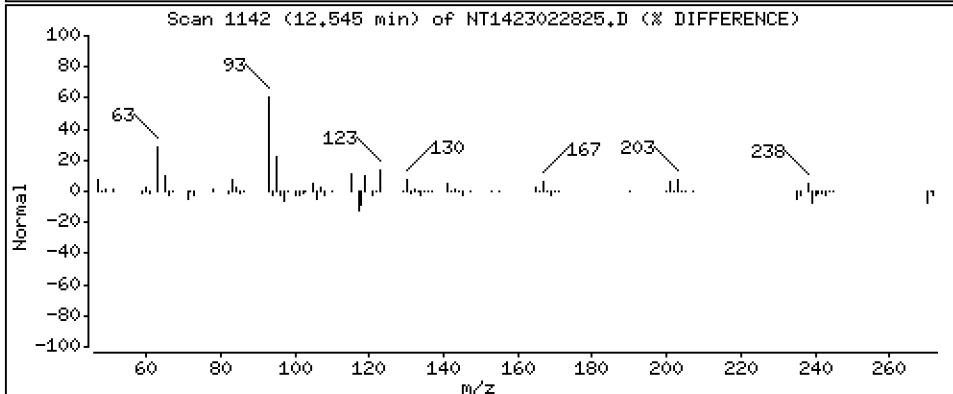
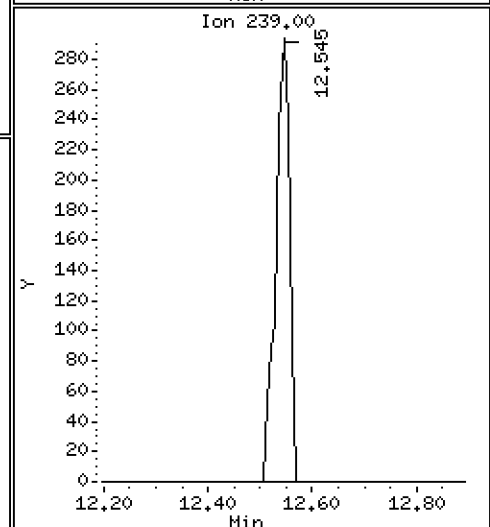
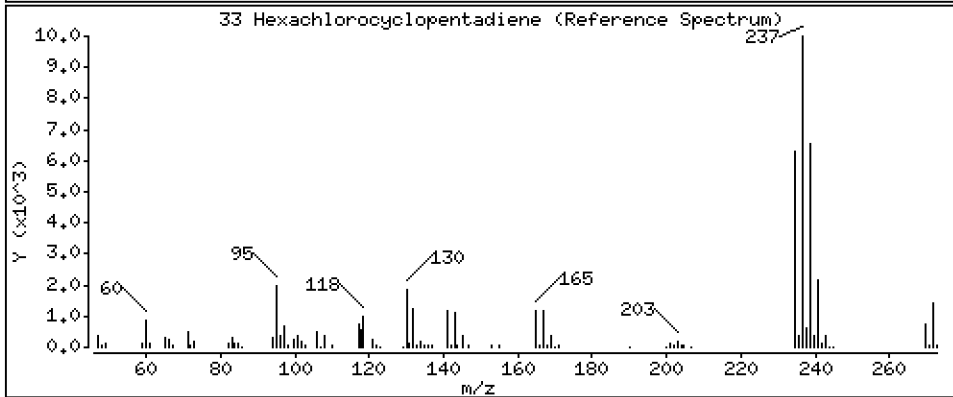
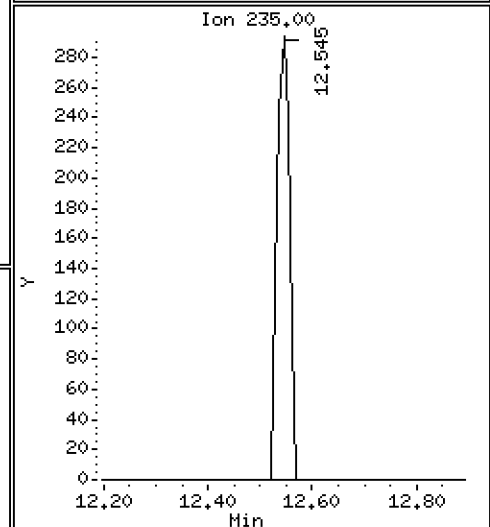
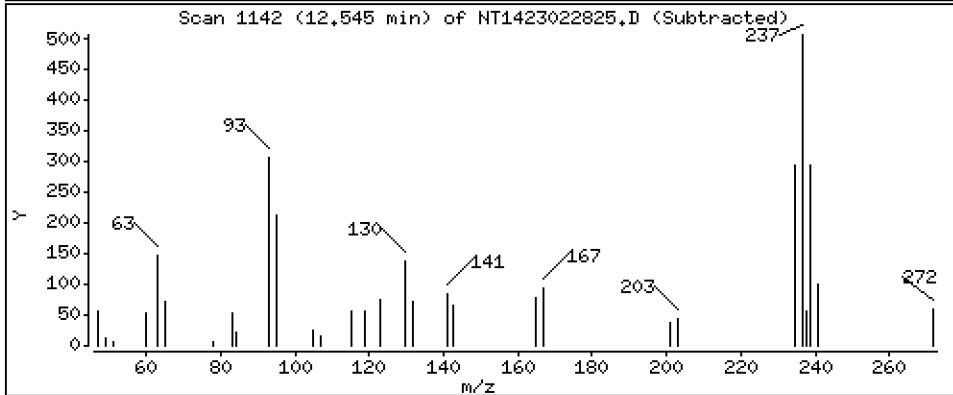
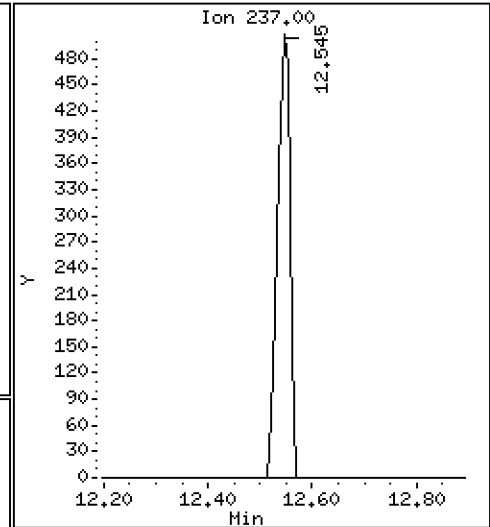
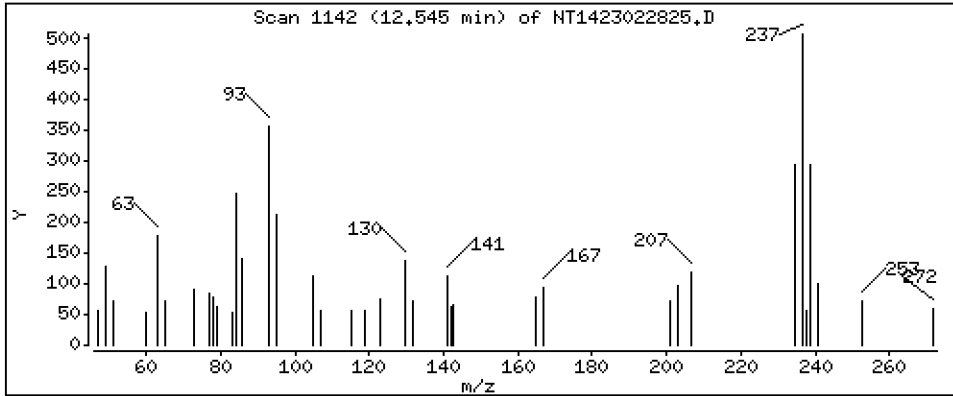
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,02907 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

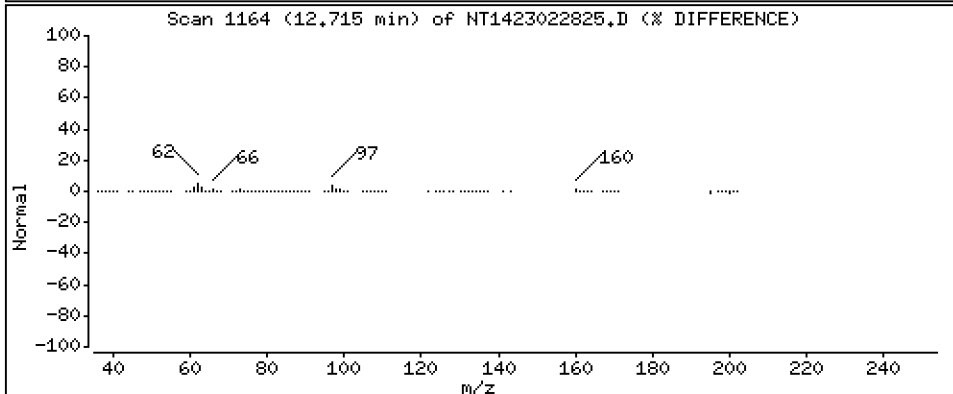
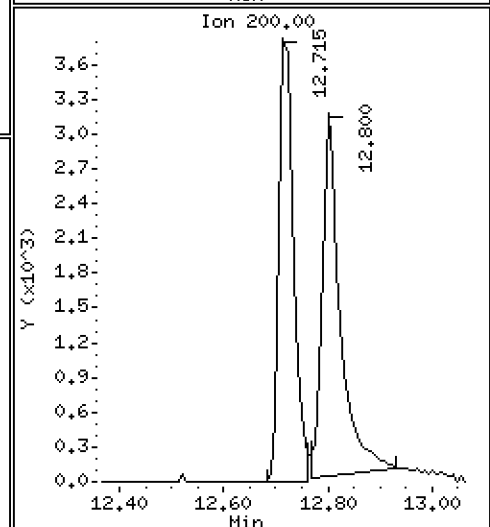
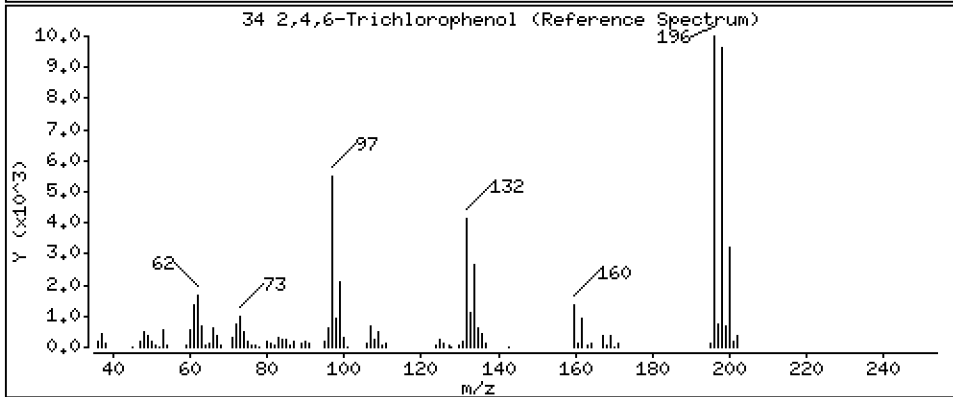
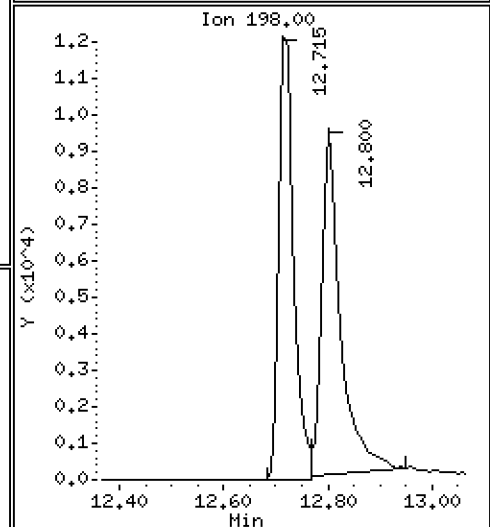
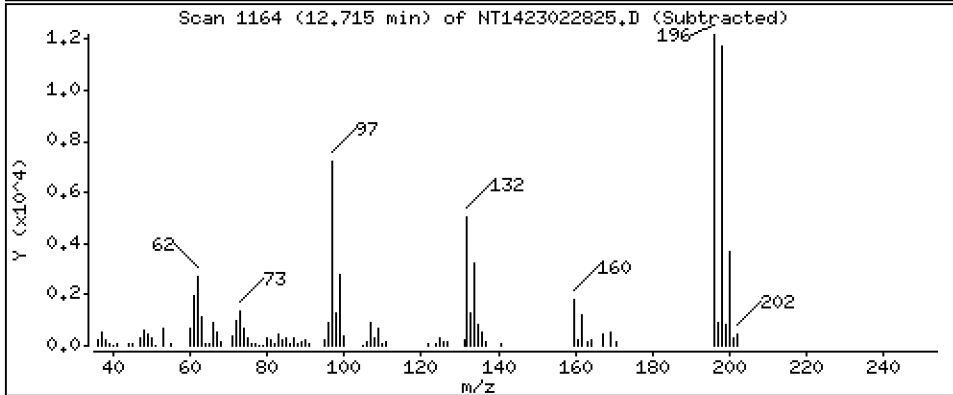
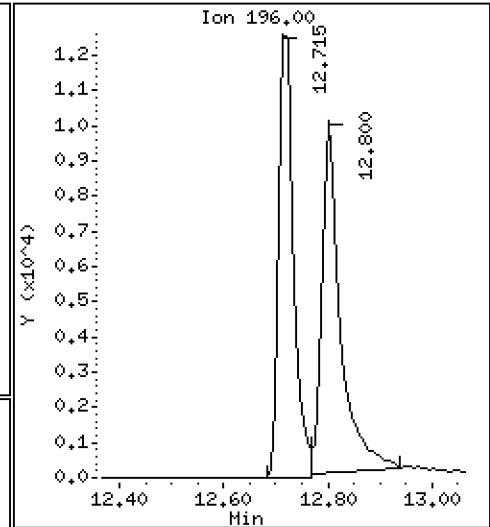
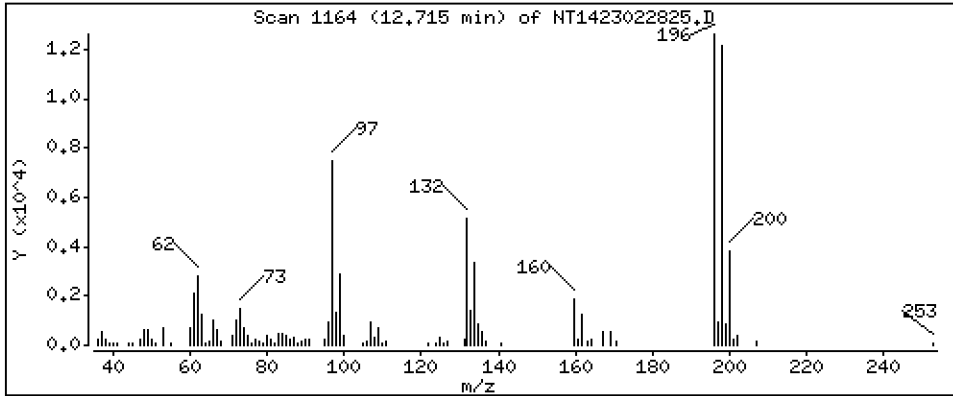
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,9333 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

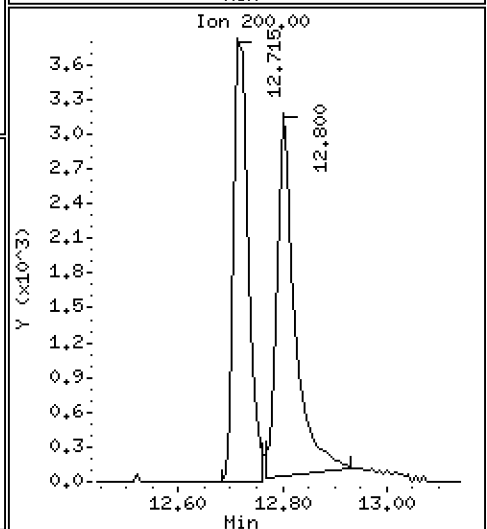
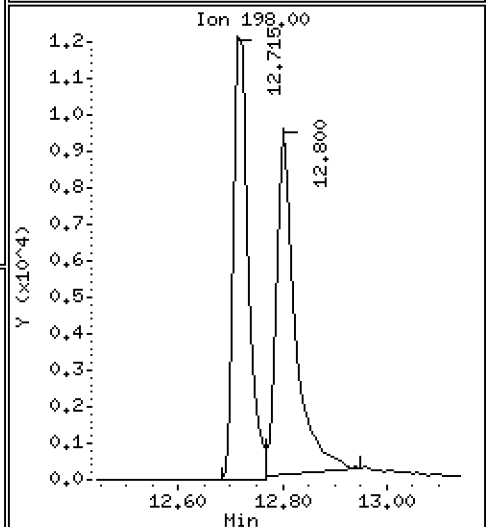
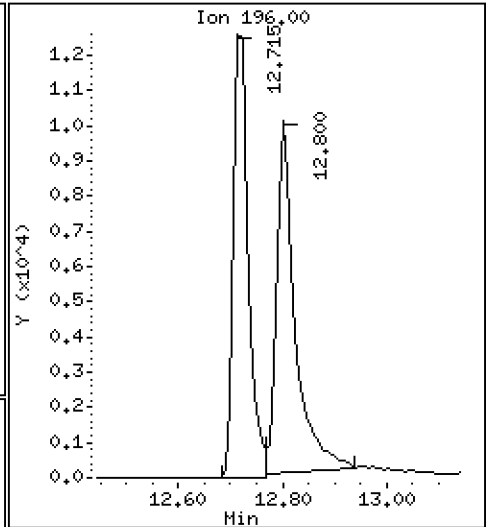
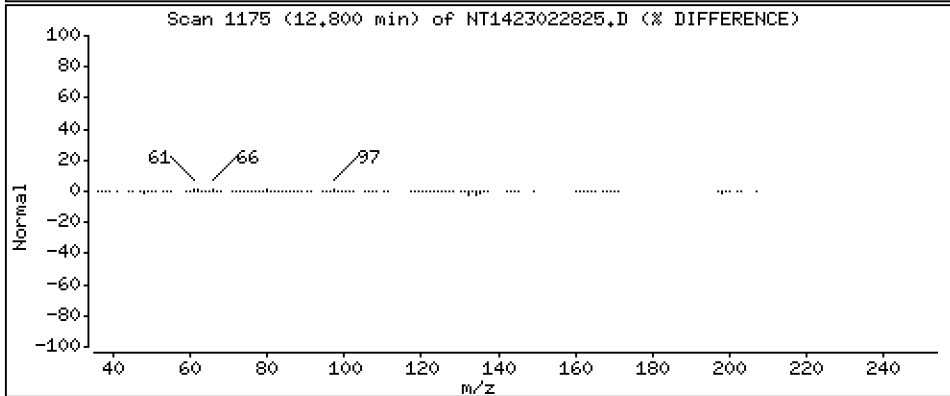
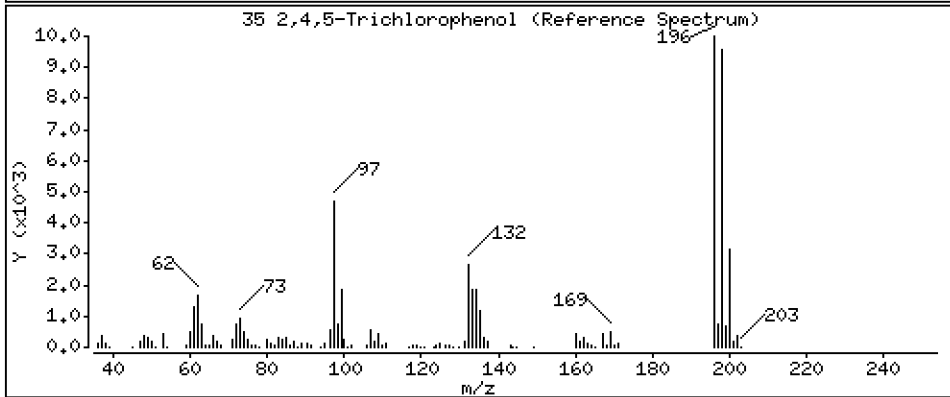
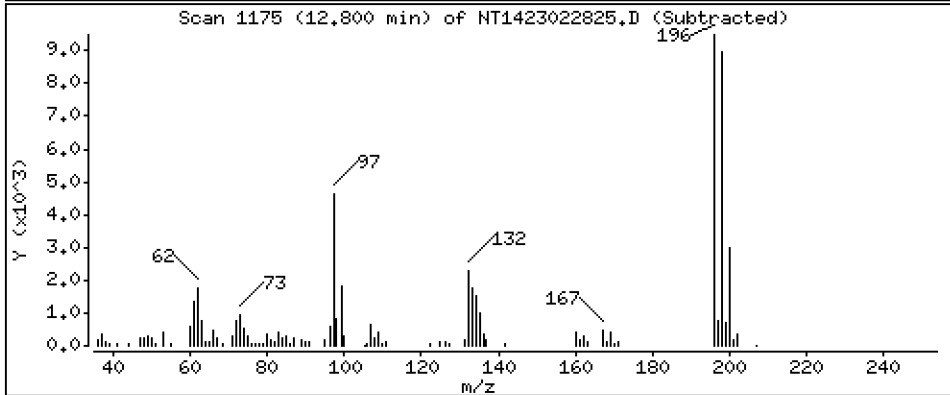
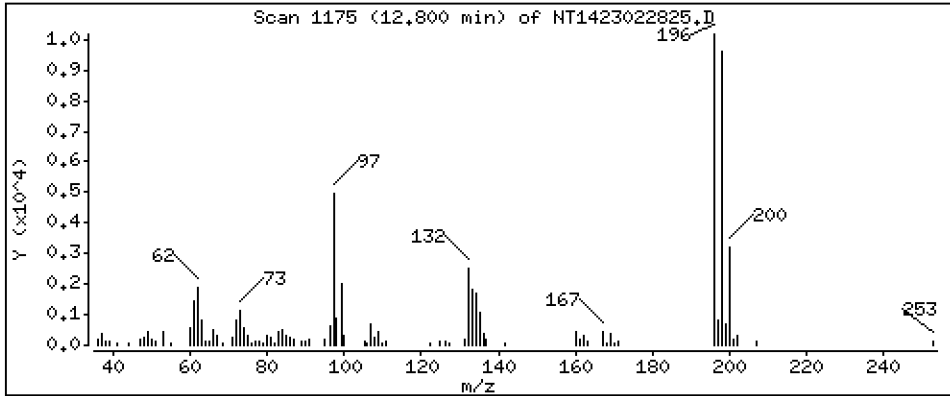
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,8772 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

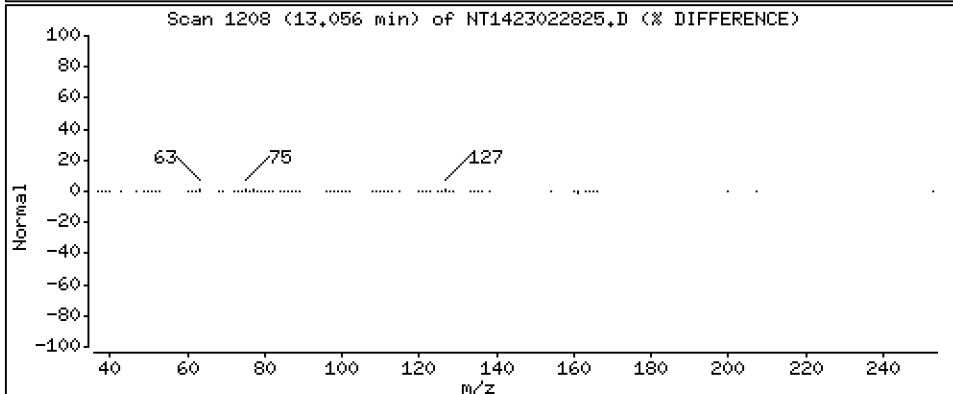
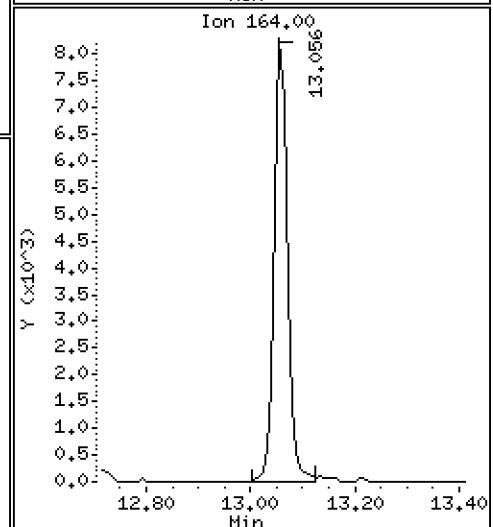
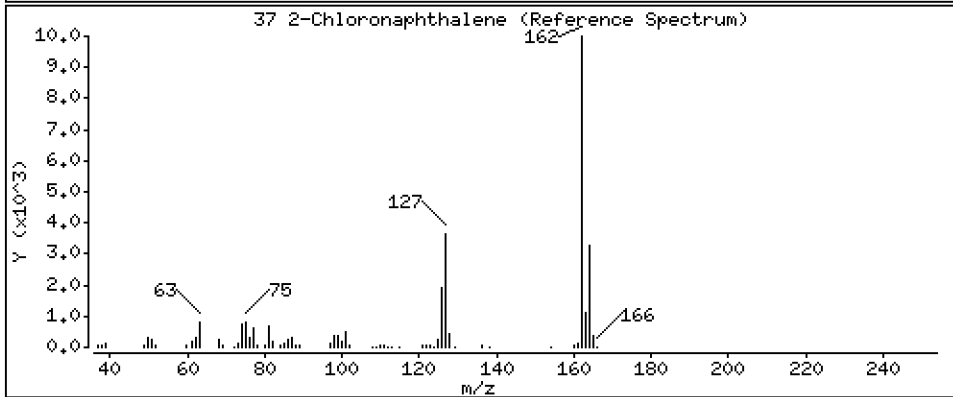
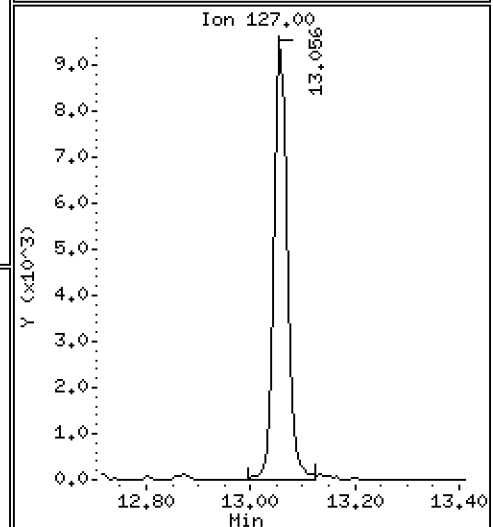
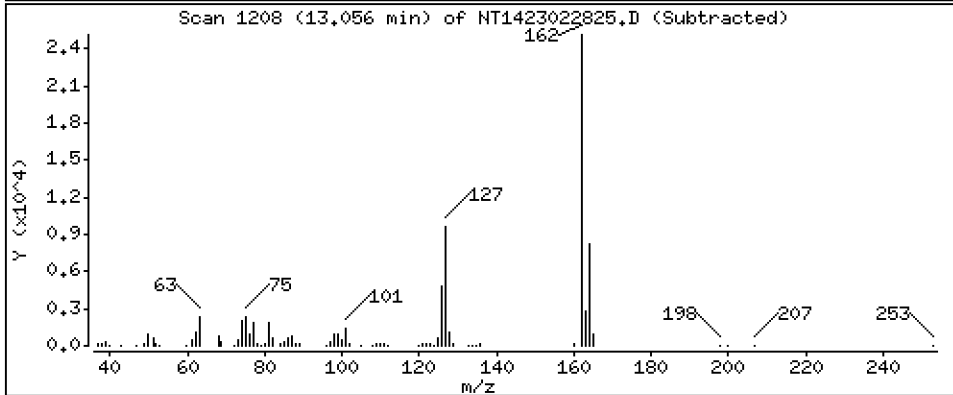
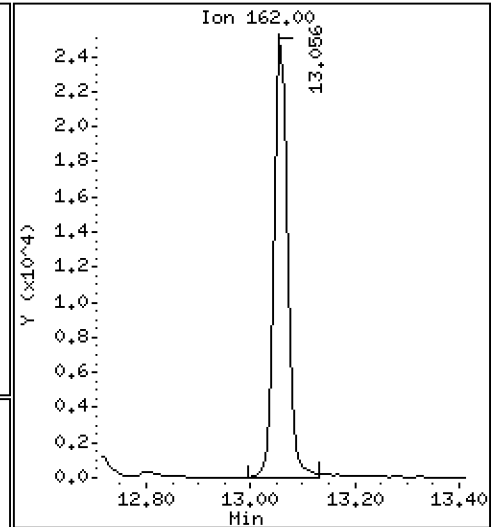
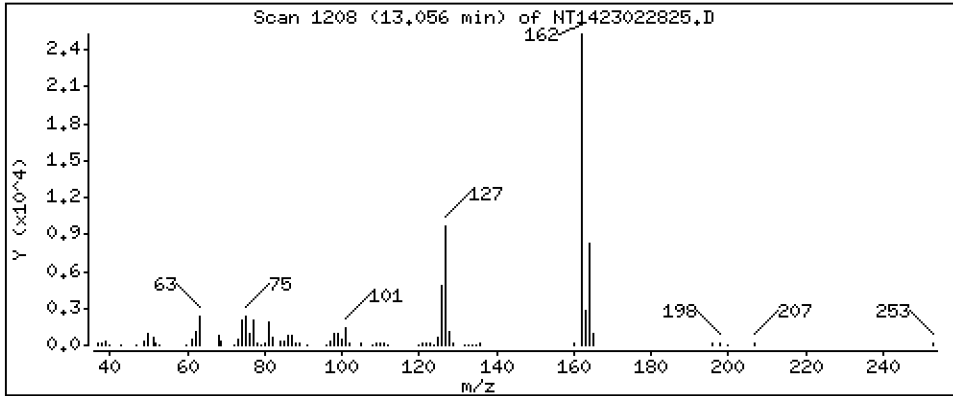
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,5205 ug/mL





Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

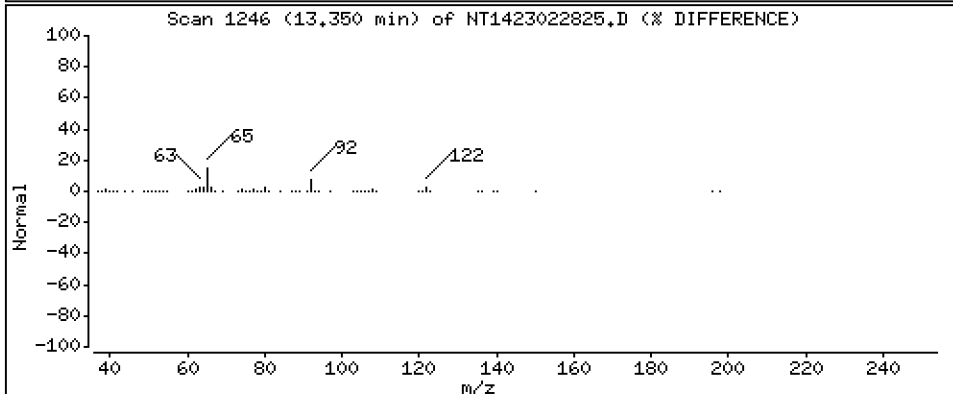
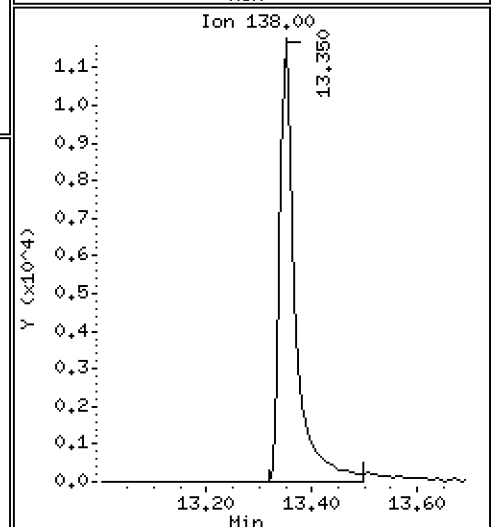
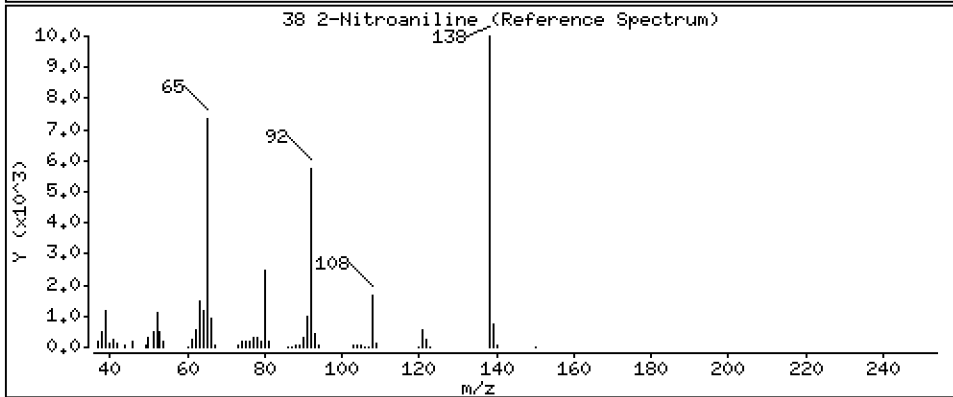
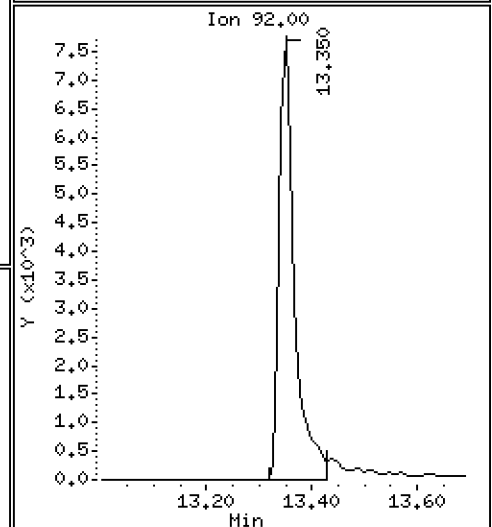
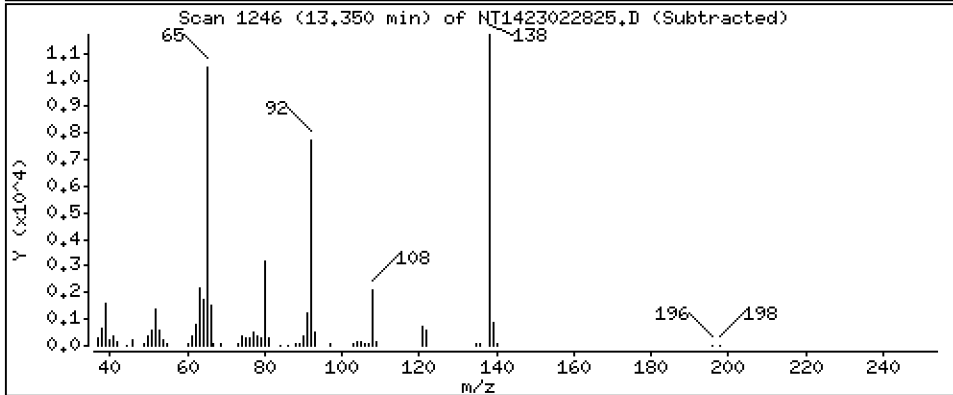
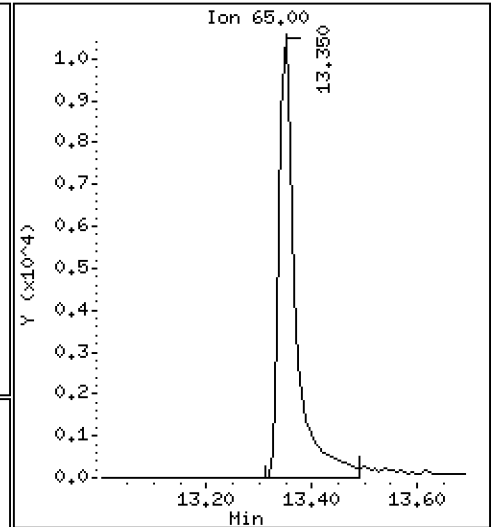
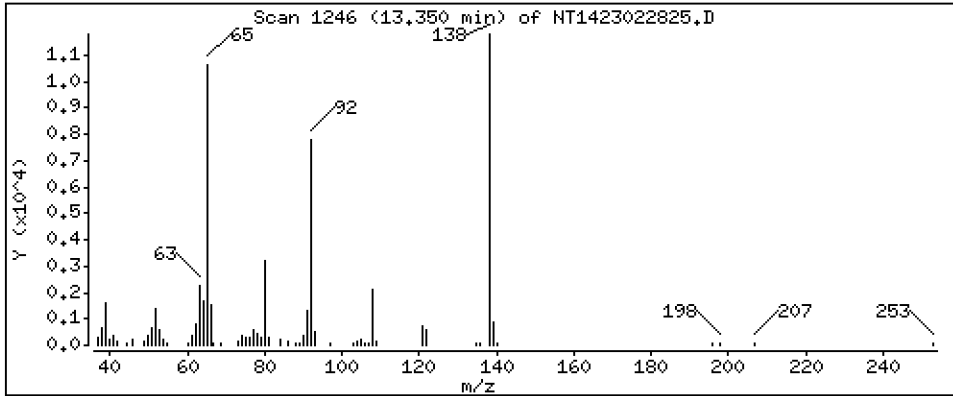
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 1,048 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

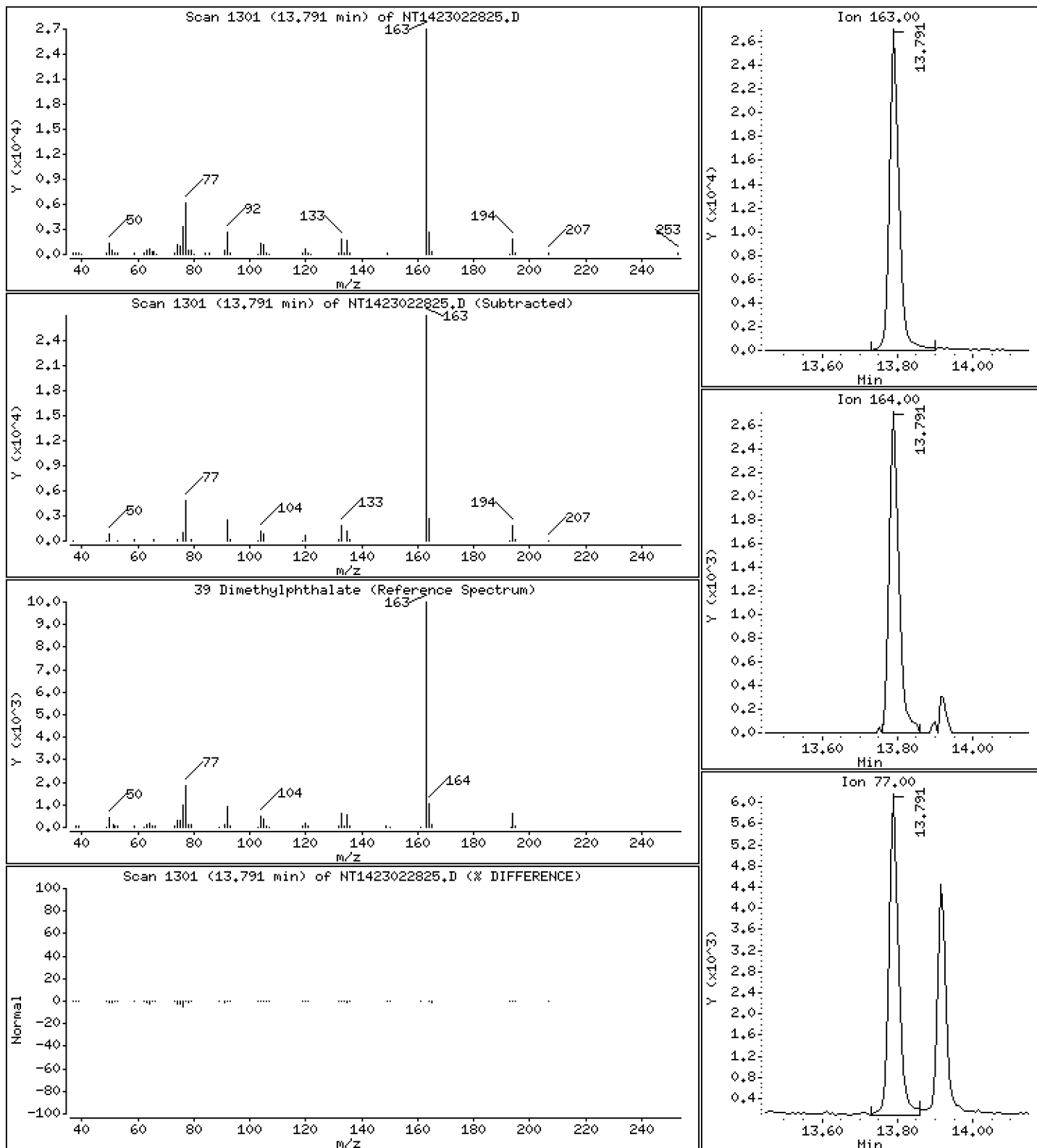
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,5482 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

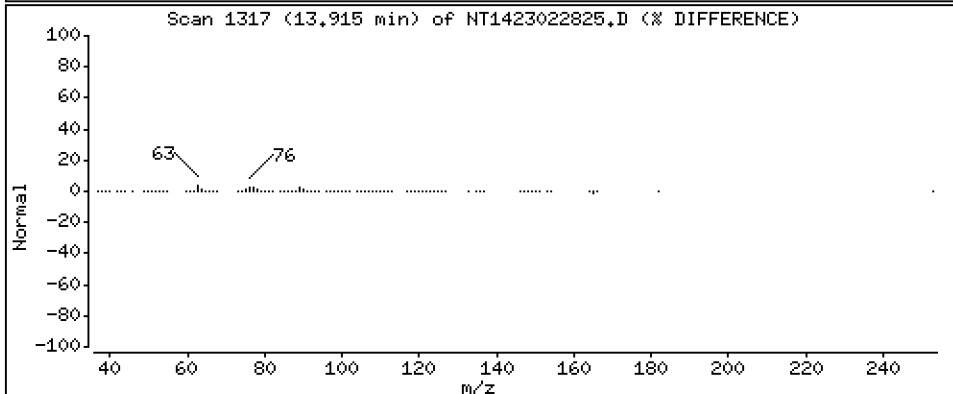
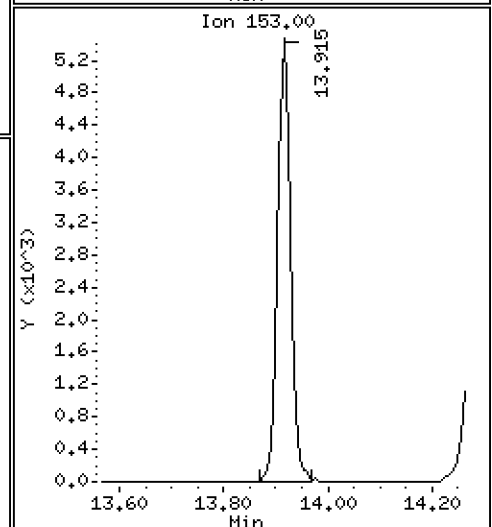
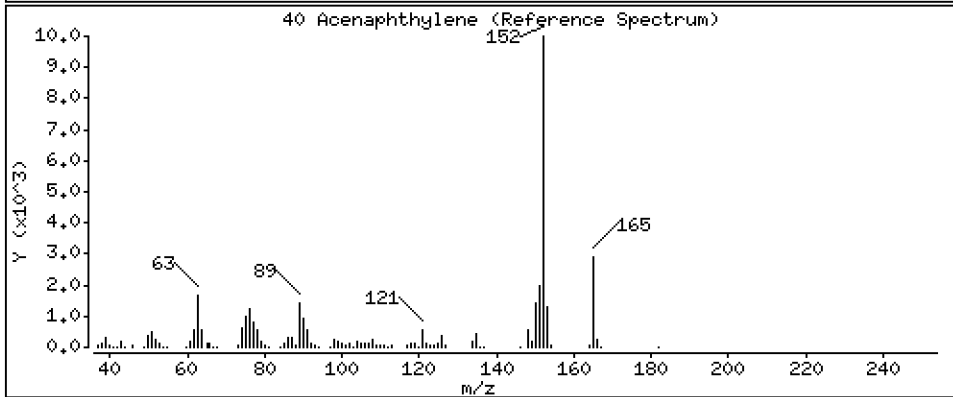
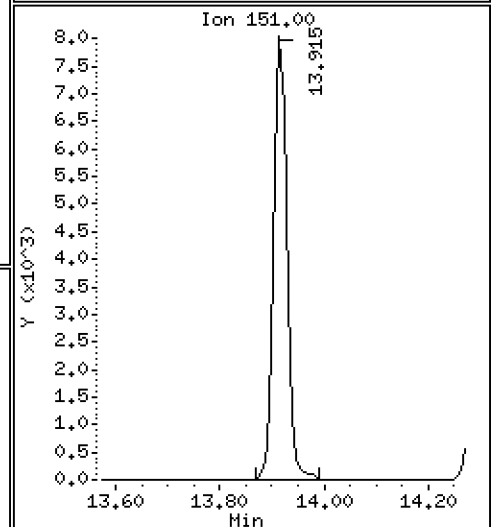
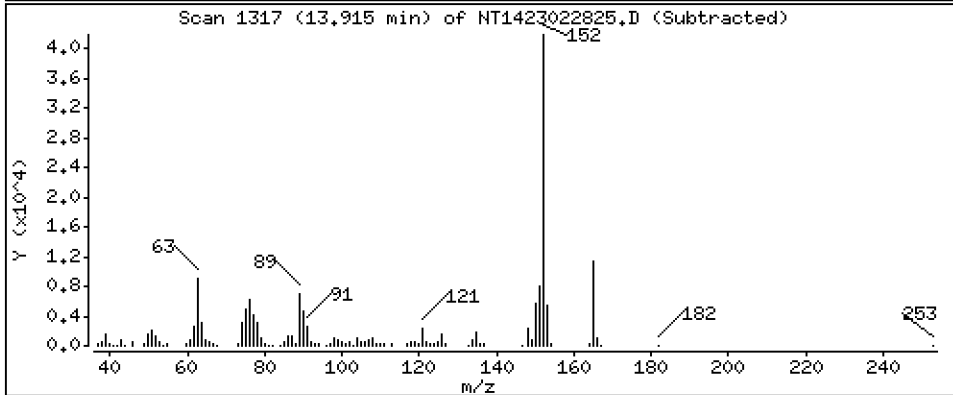
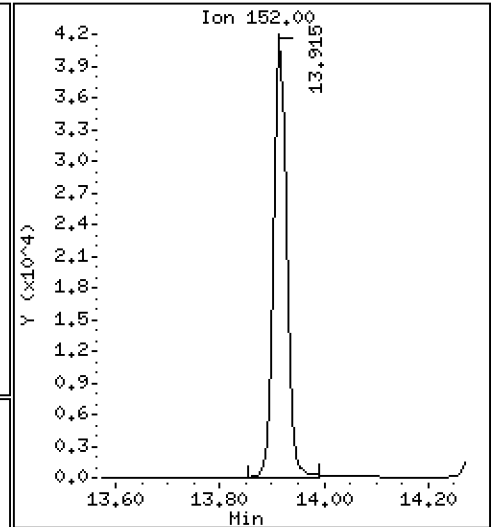
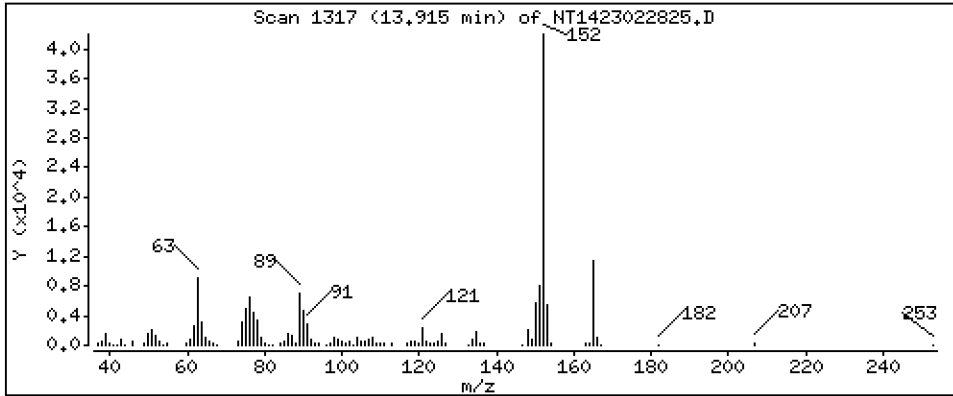
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,5668 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

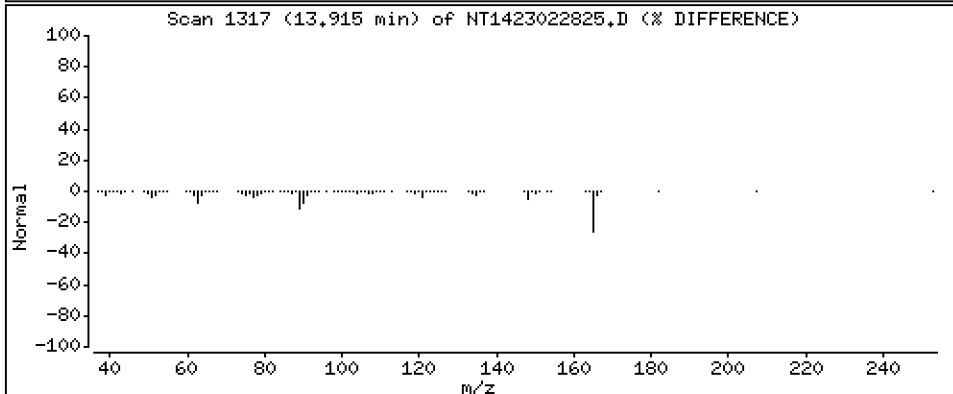
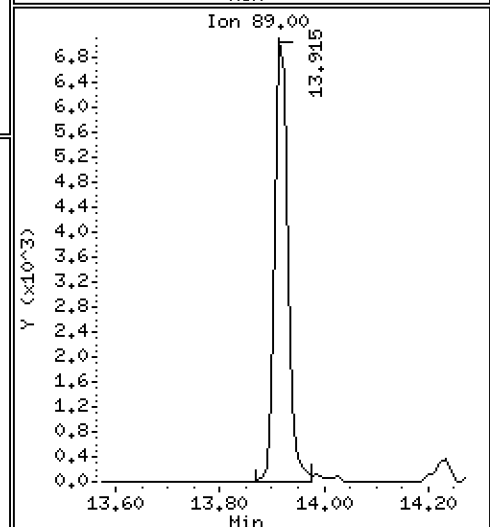
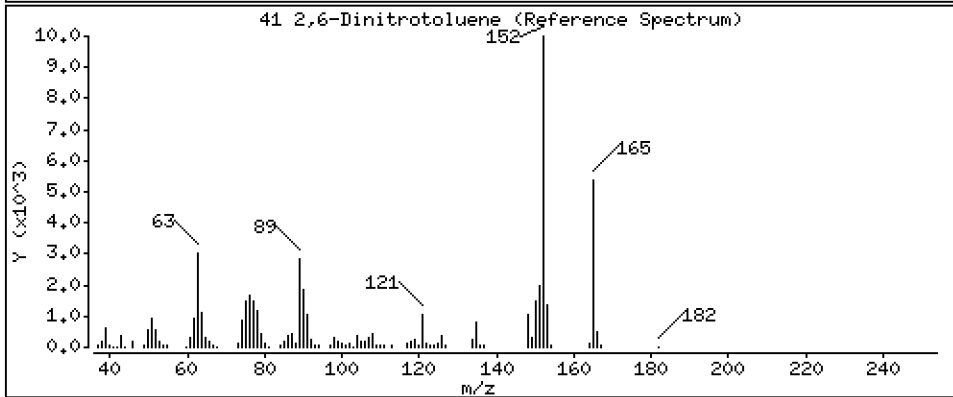
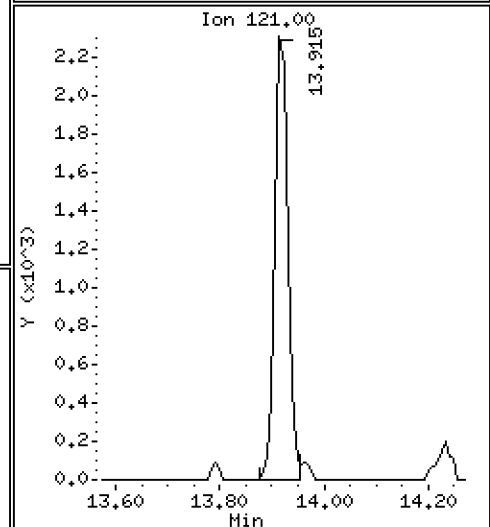
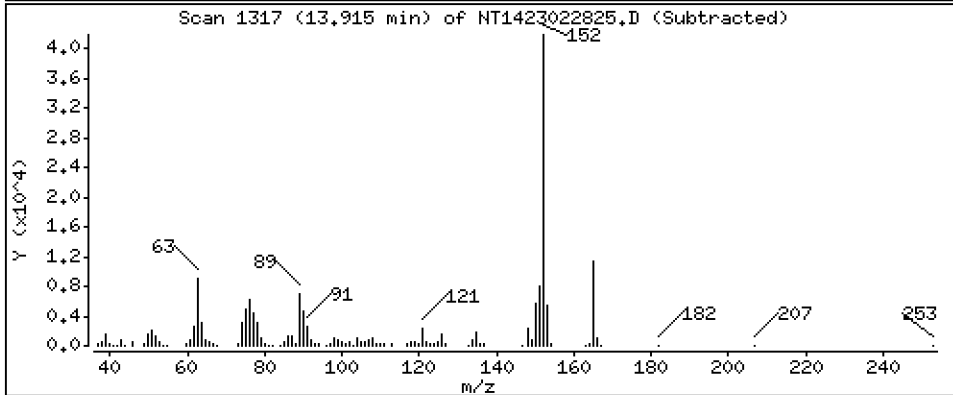
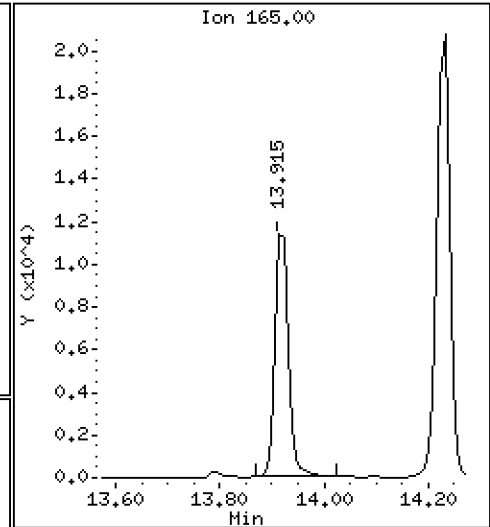
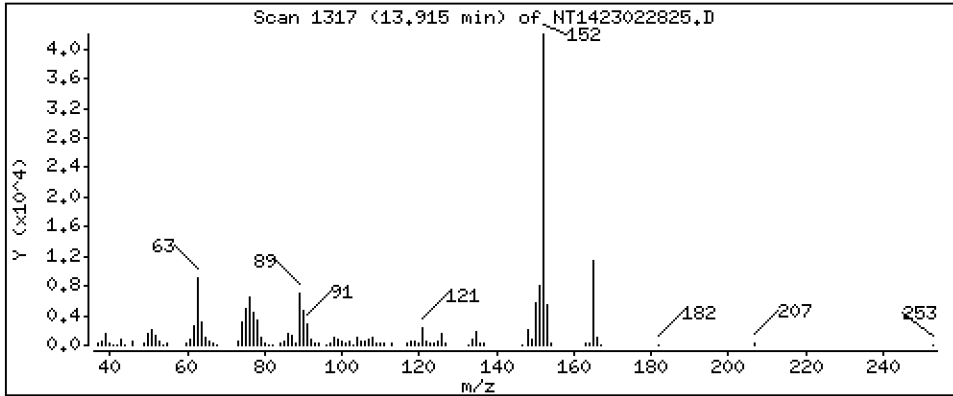
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 0,9944 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

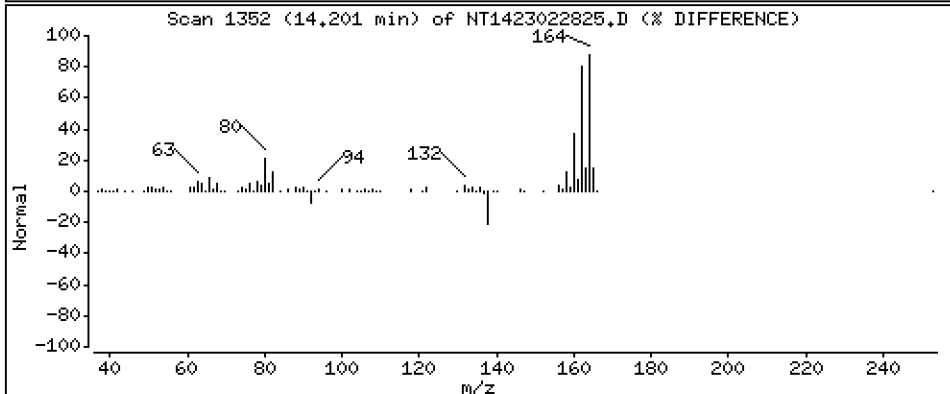
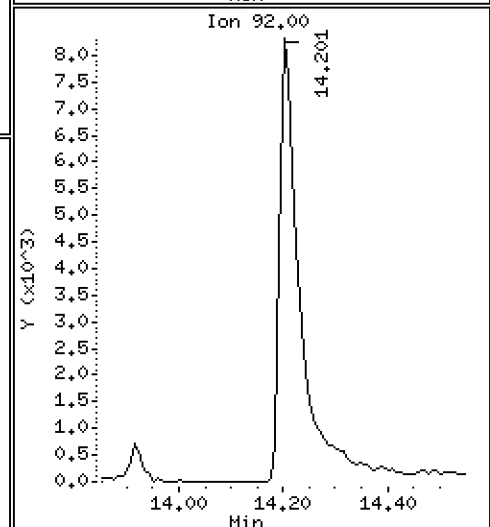
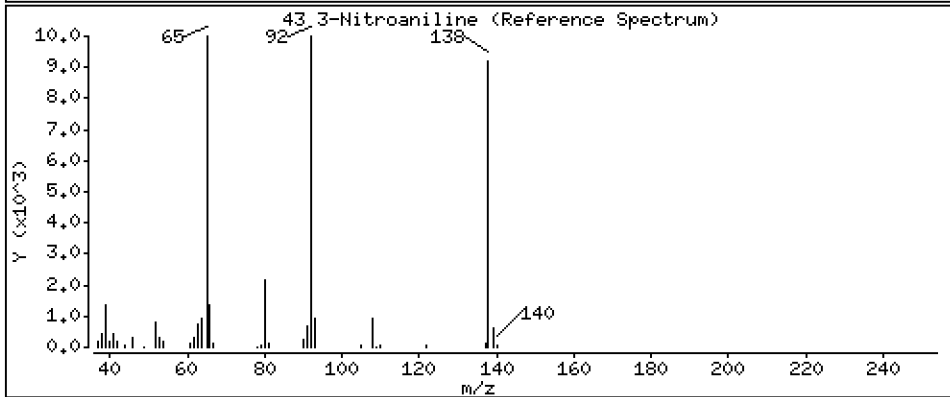
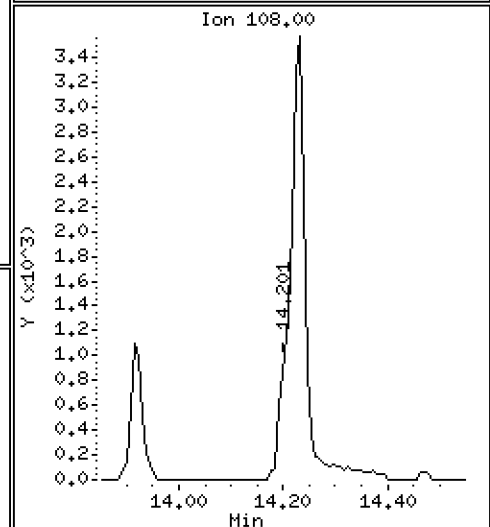
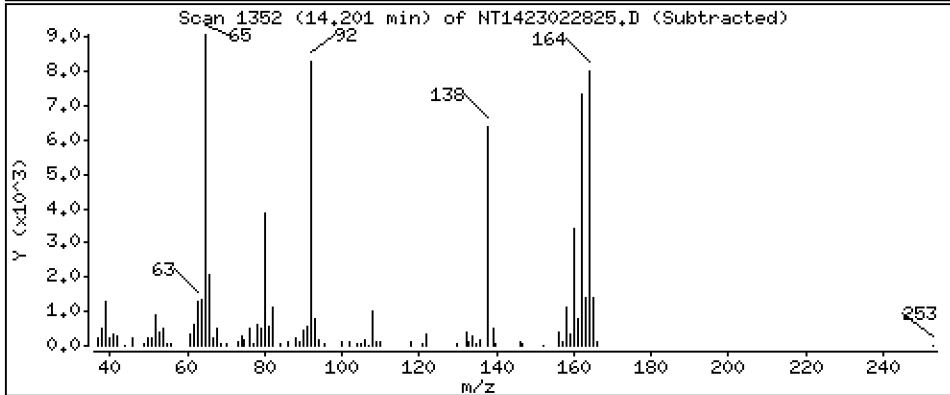
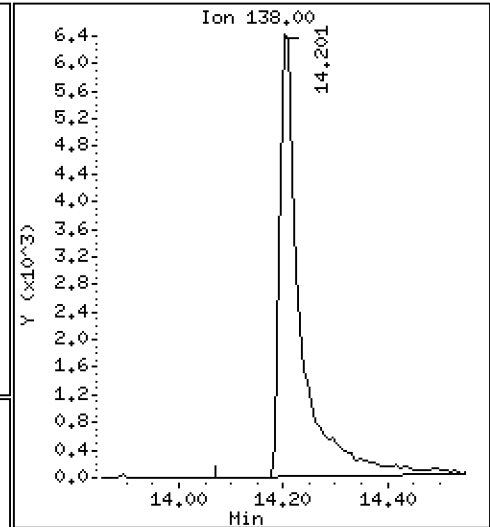
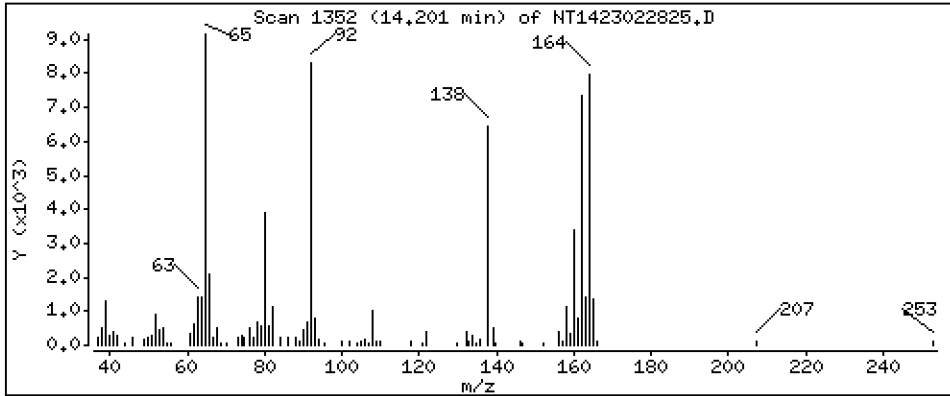
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,9113 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

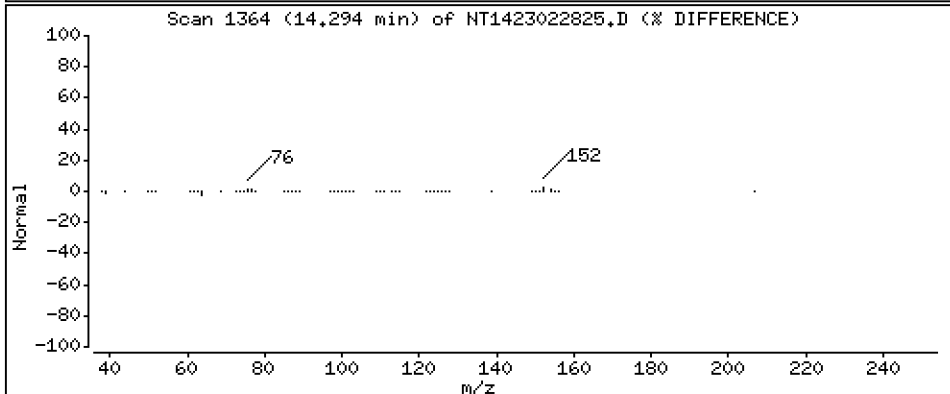
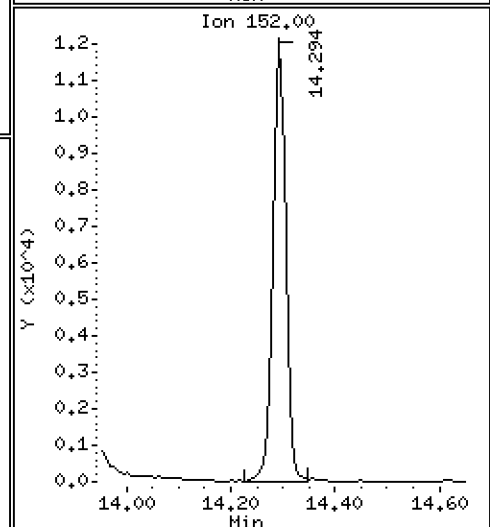
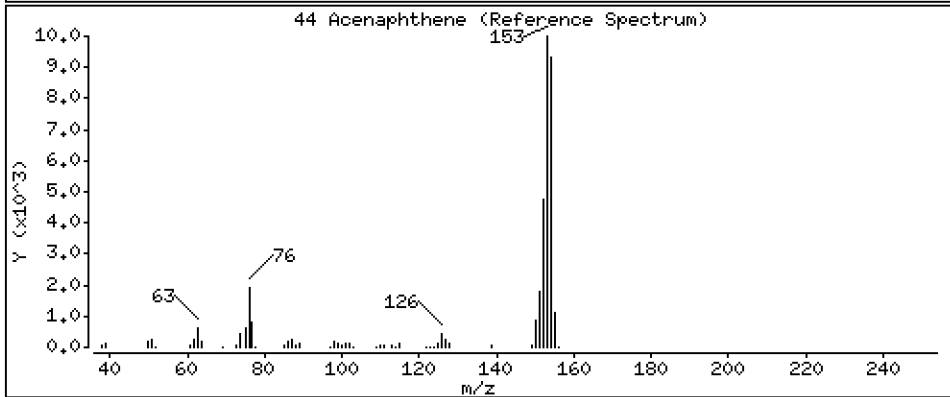
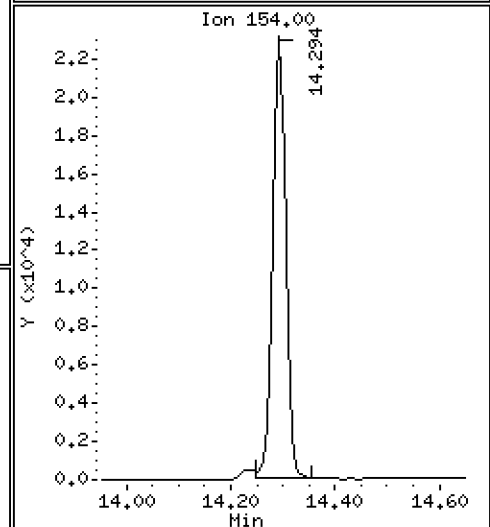
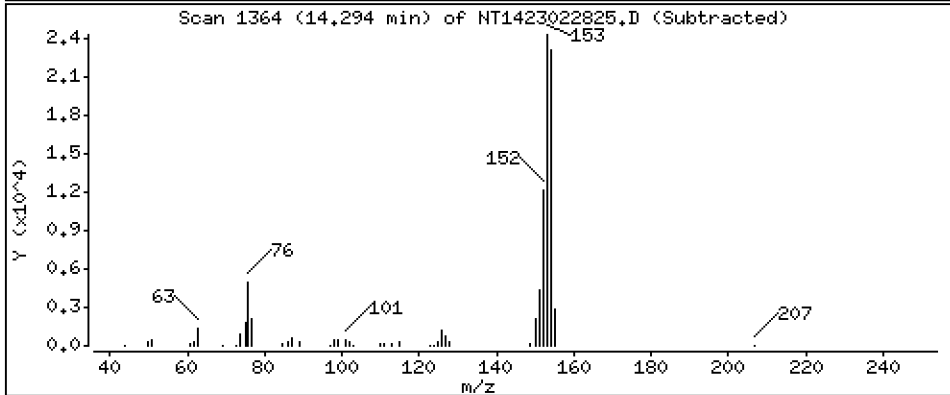
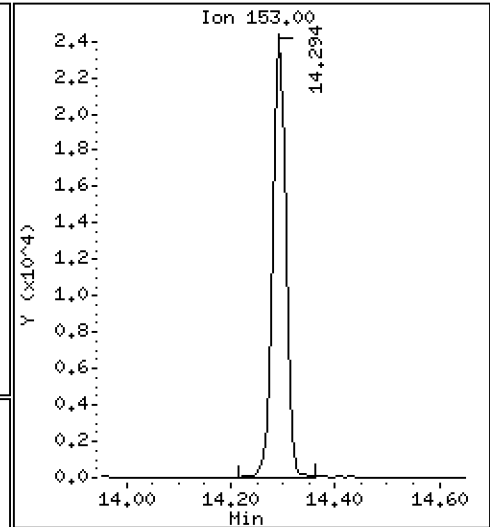
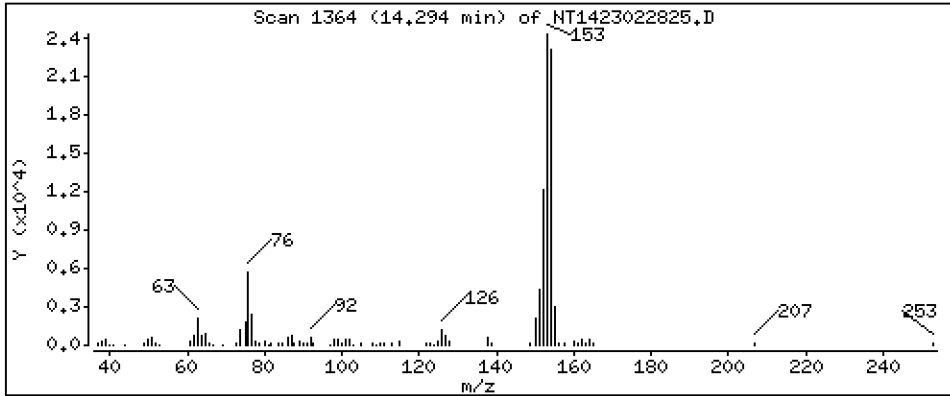
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,5211 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

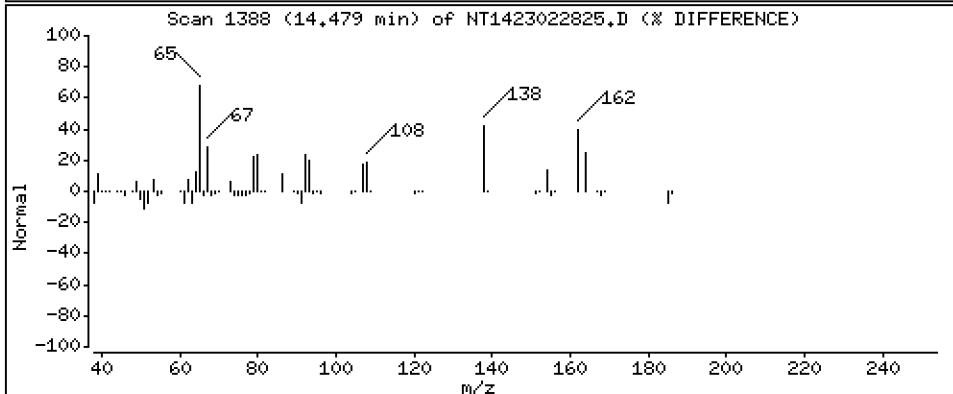
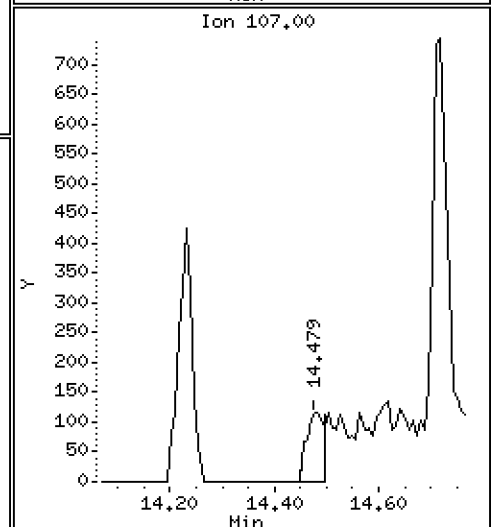
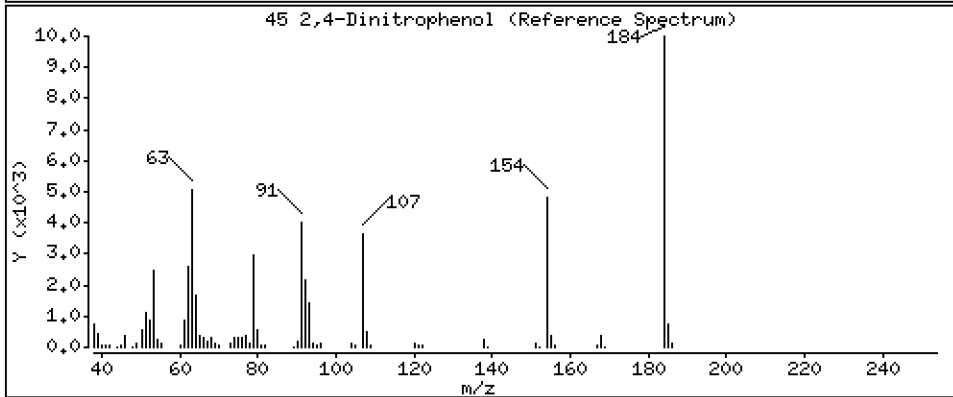
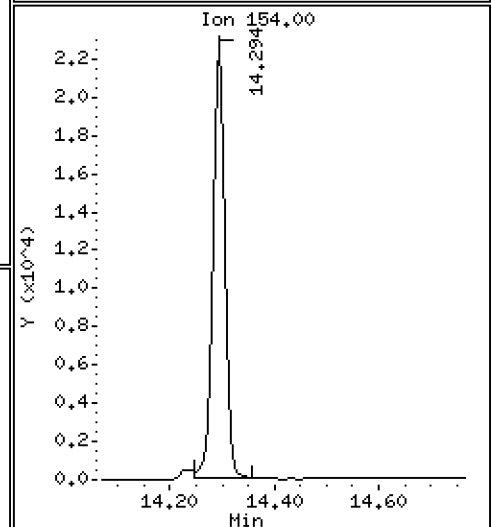
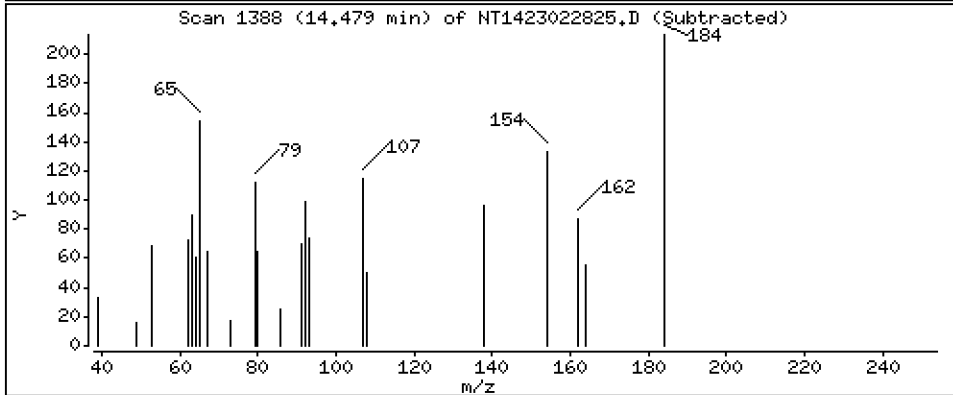
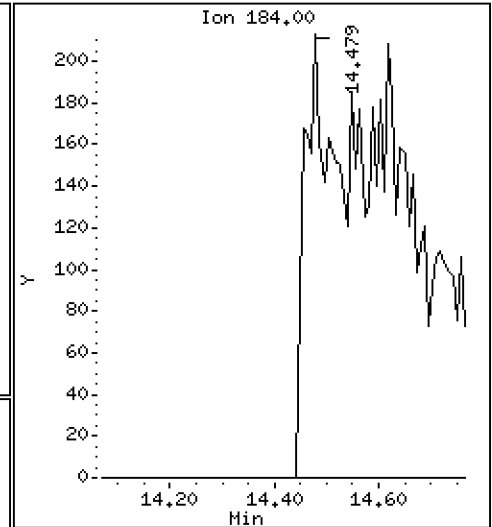
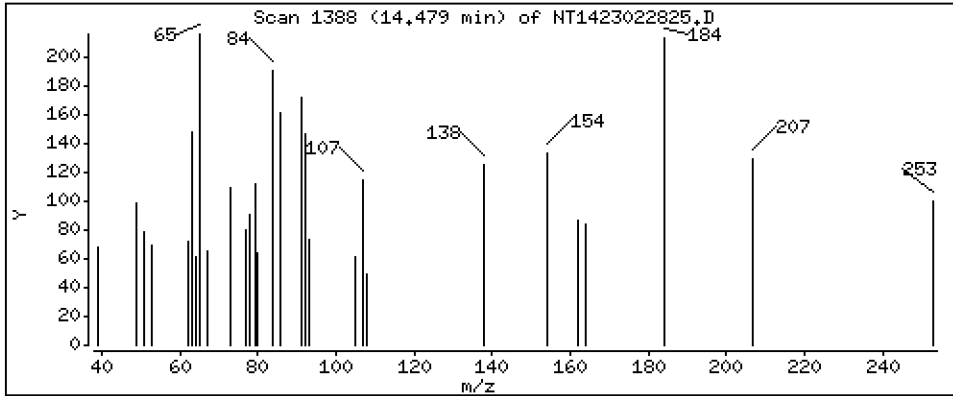
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,3335 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

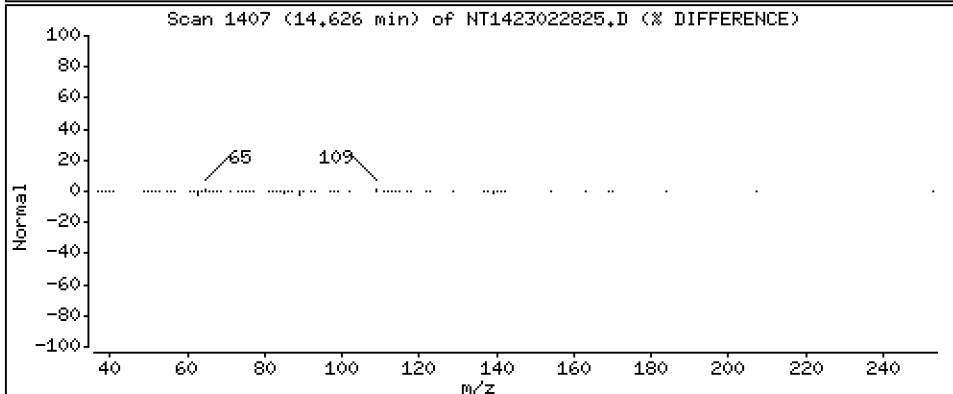
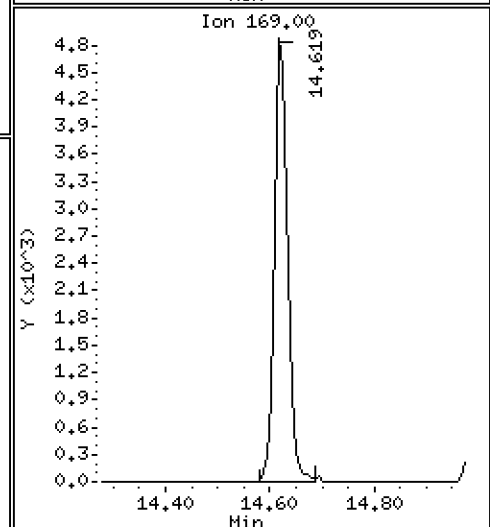
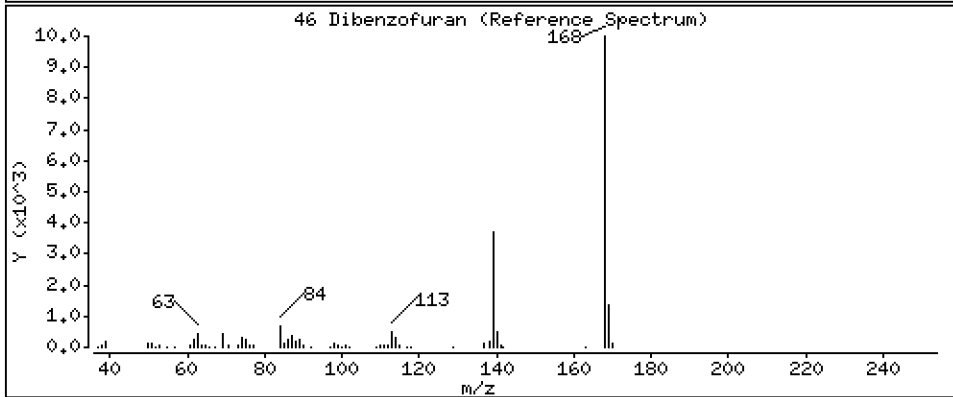
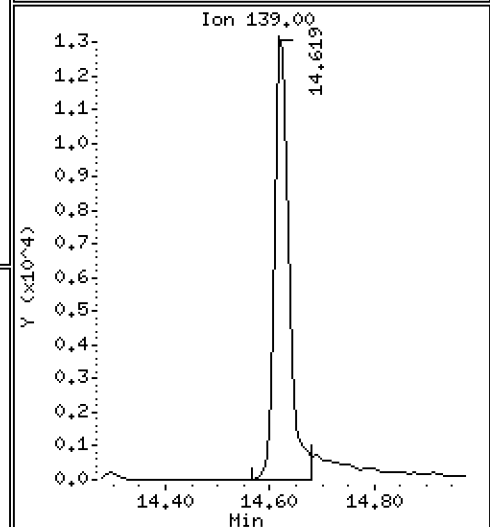
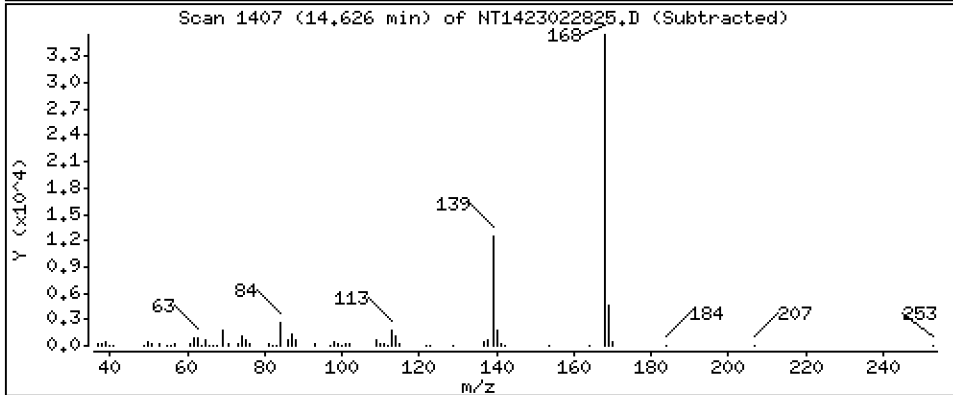
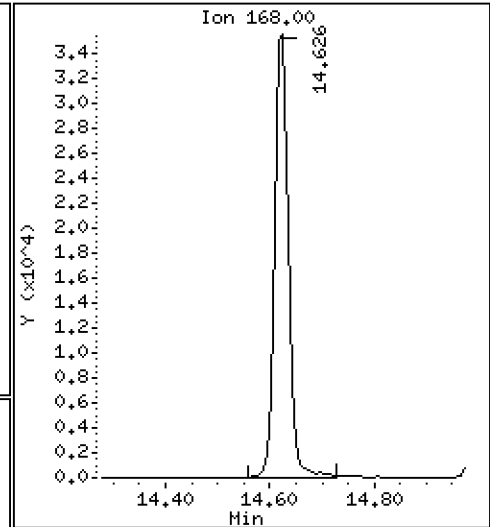
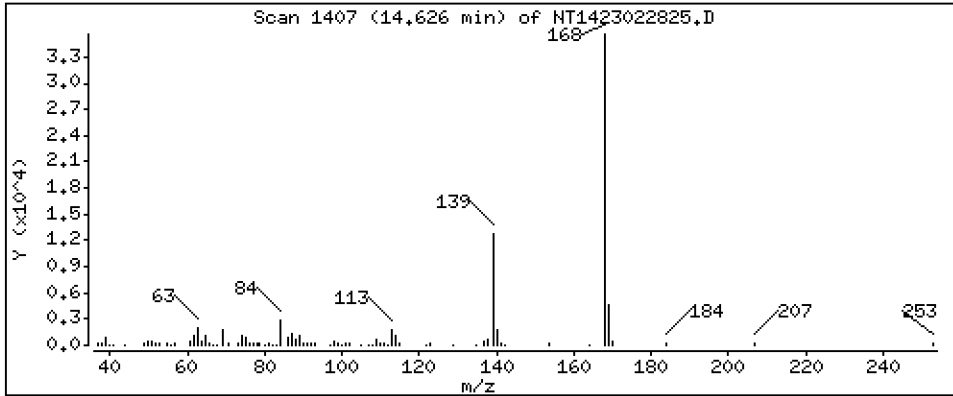
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,5081 ug/mL





Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

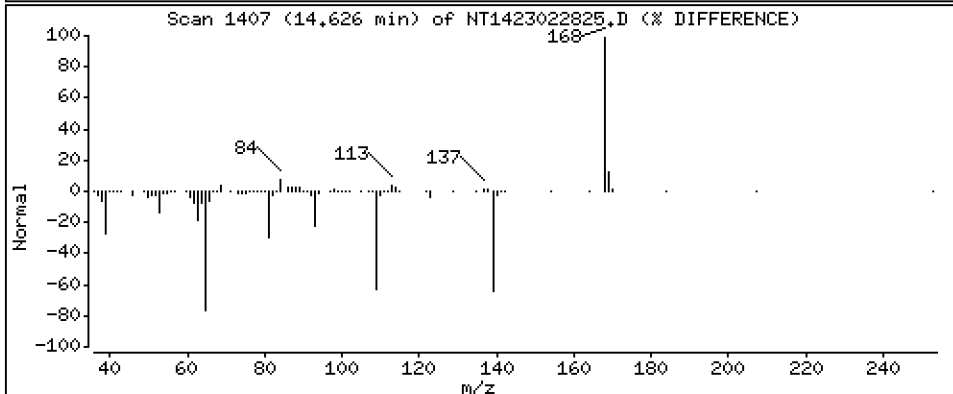
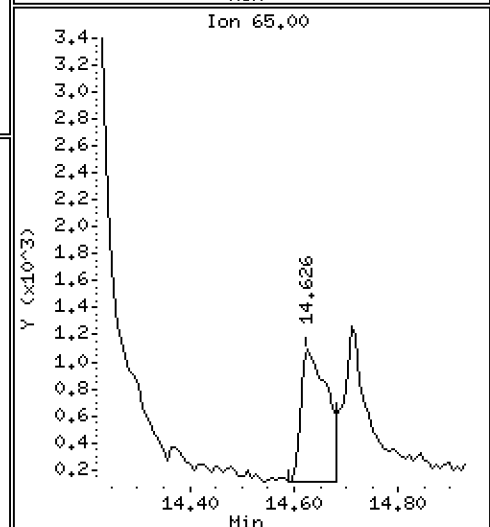
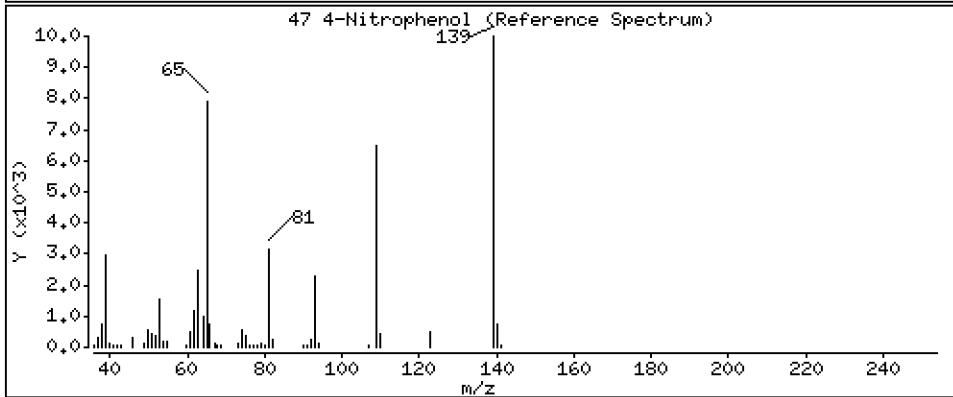
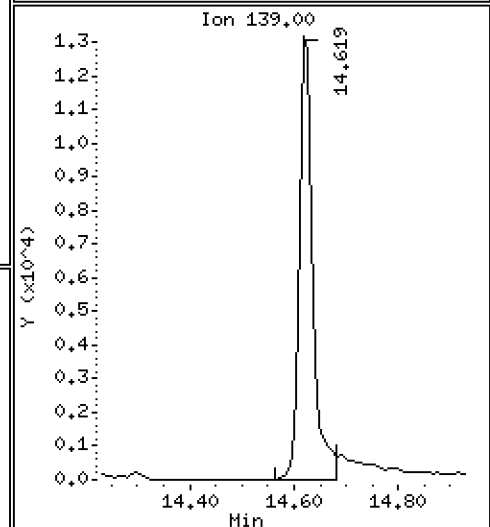
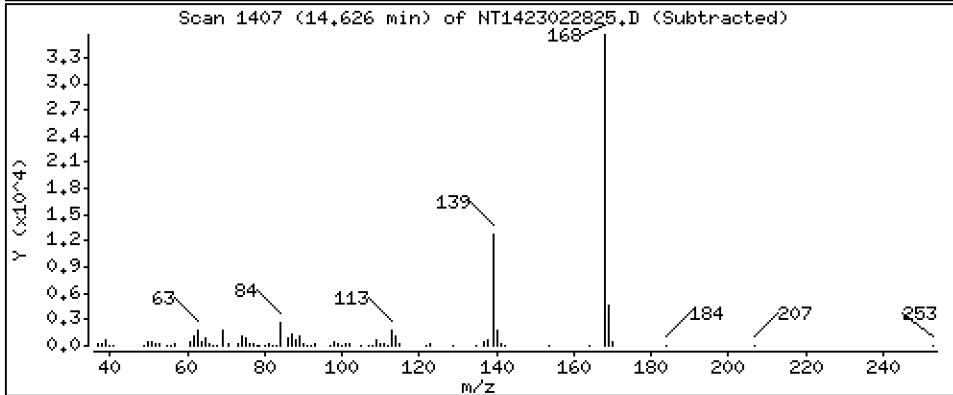
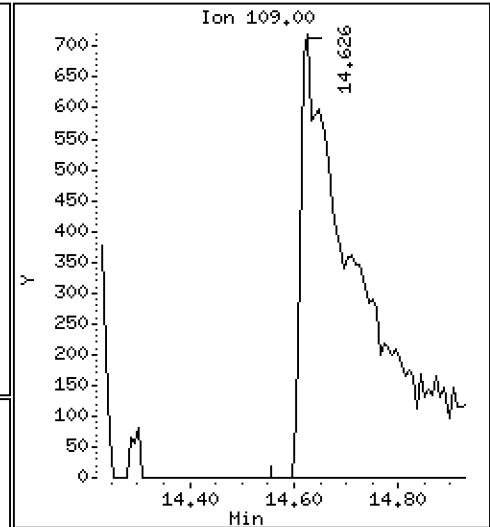
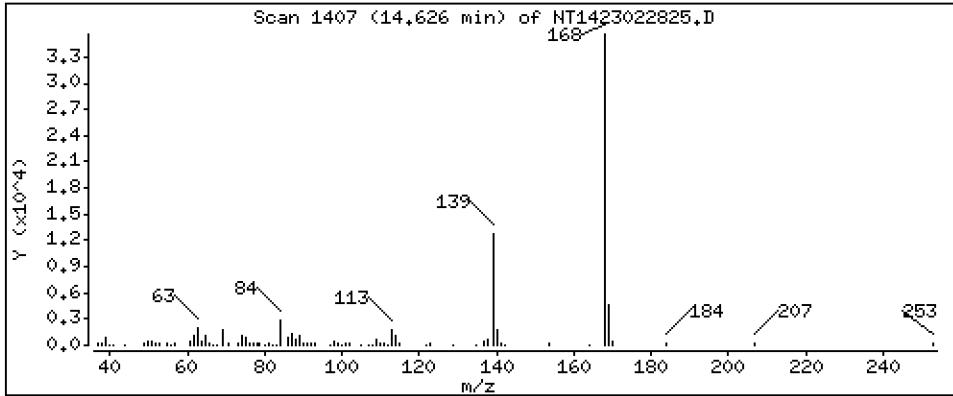
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,7283 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

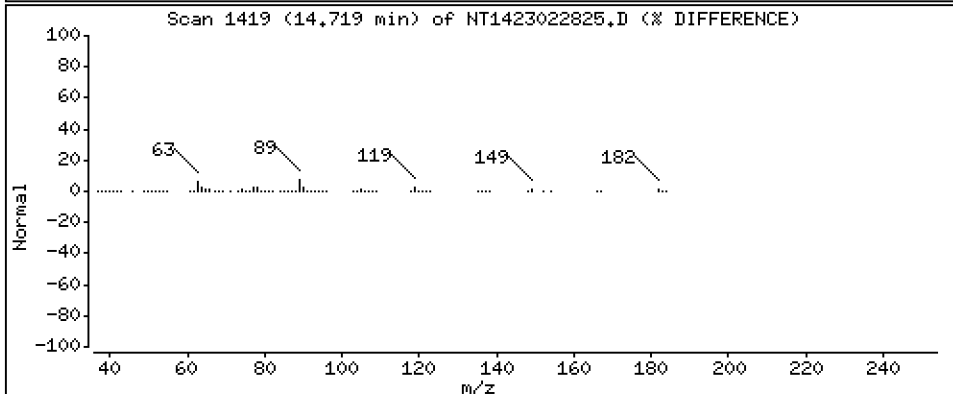
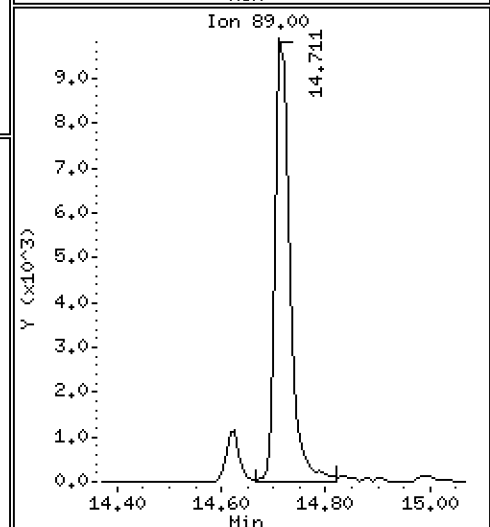
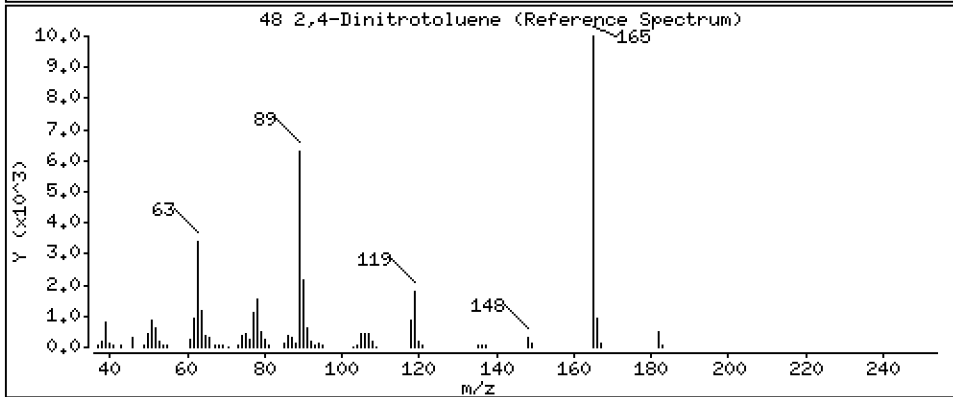
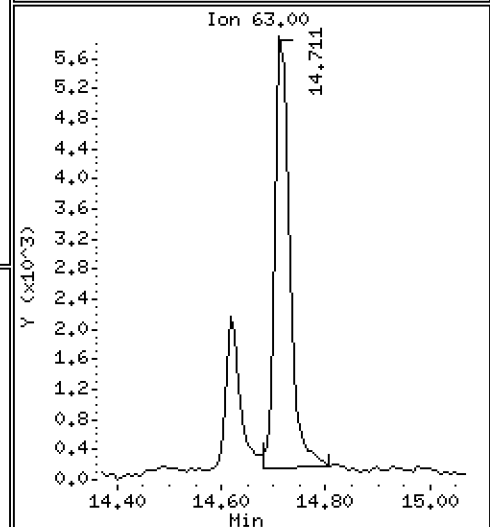
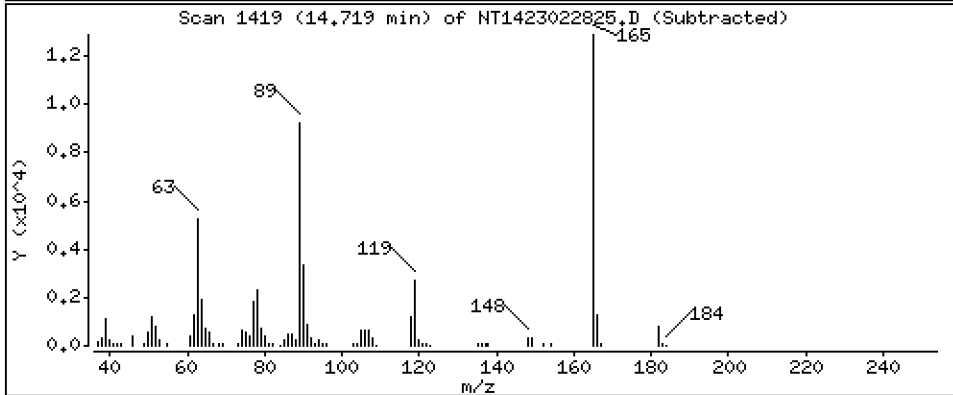
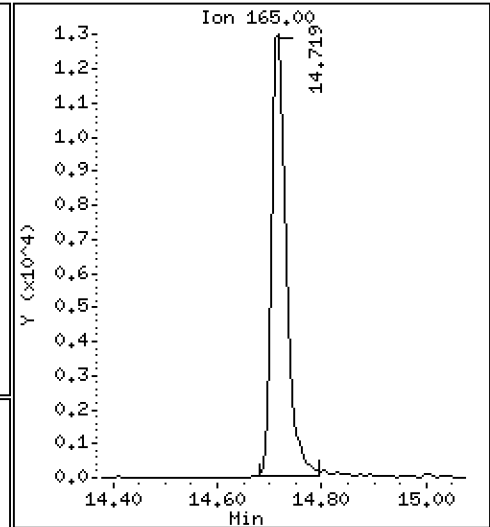
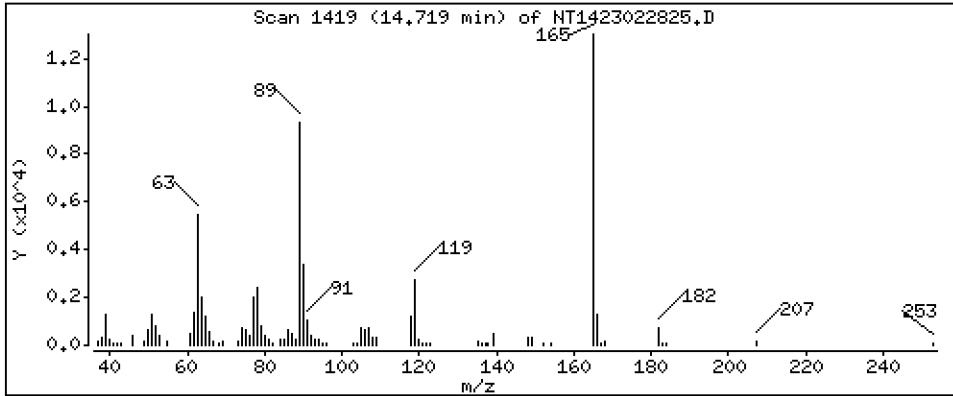
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.8625 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

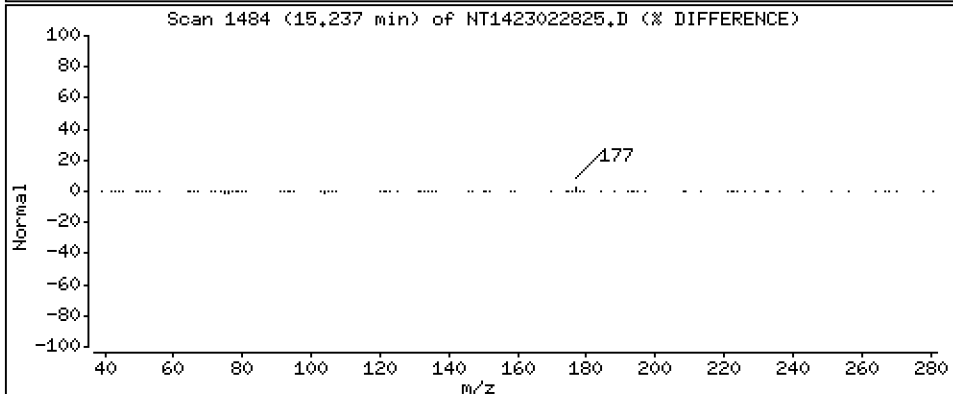
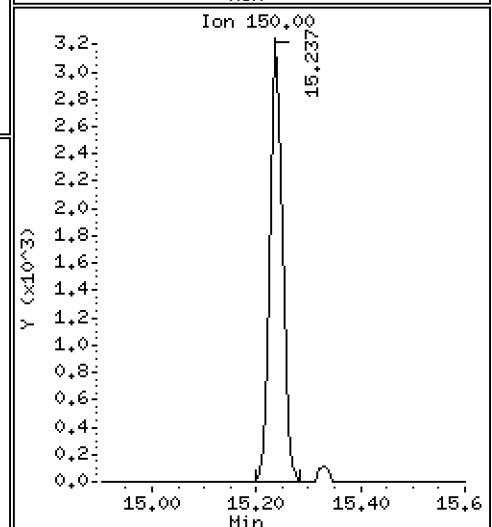
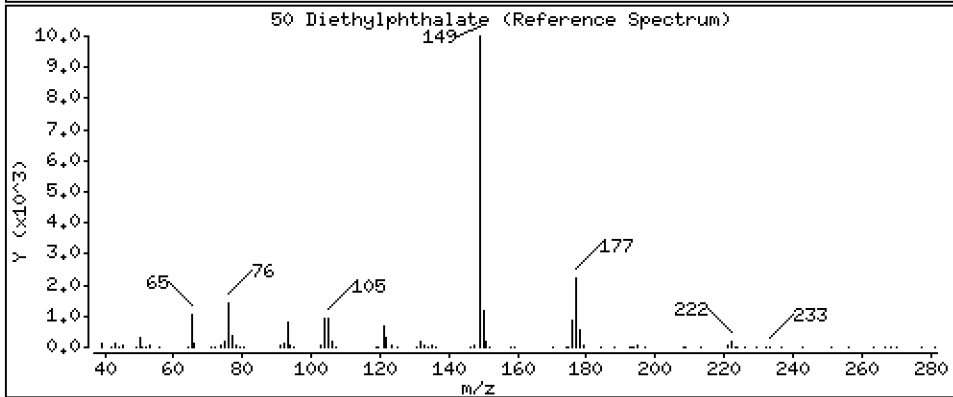
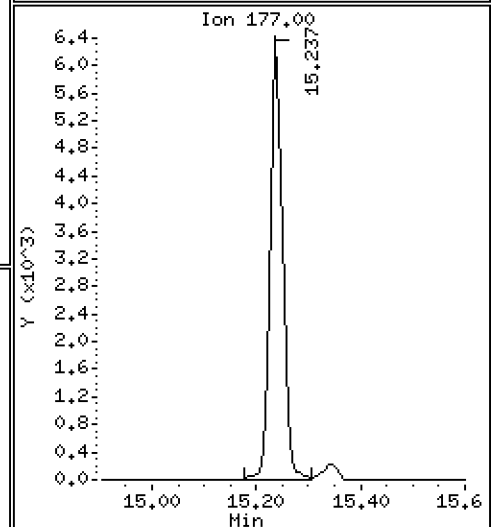
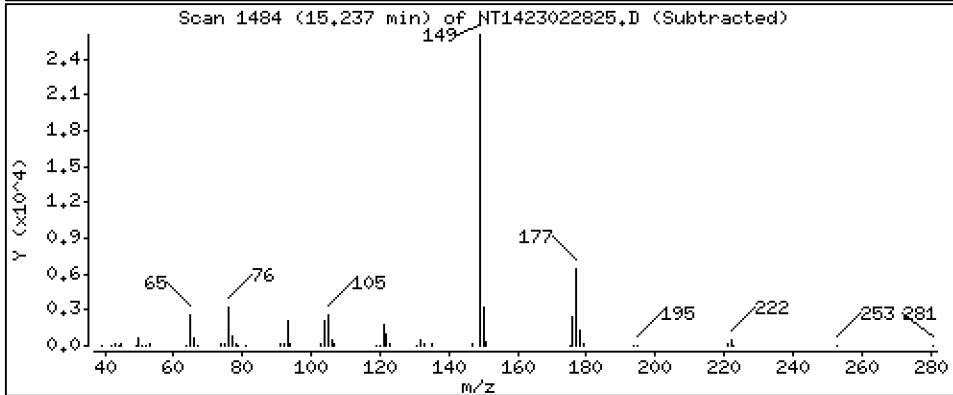
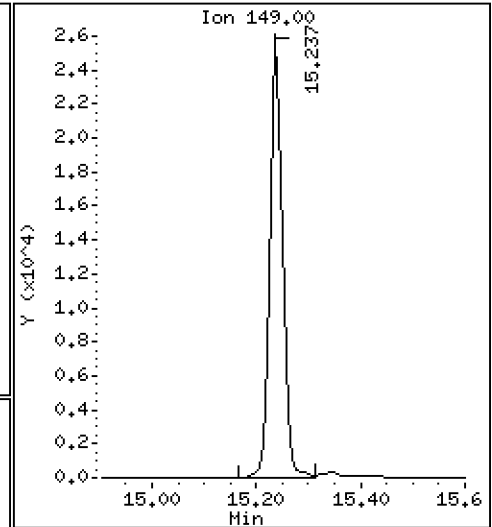
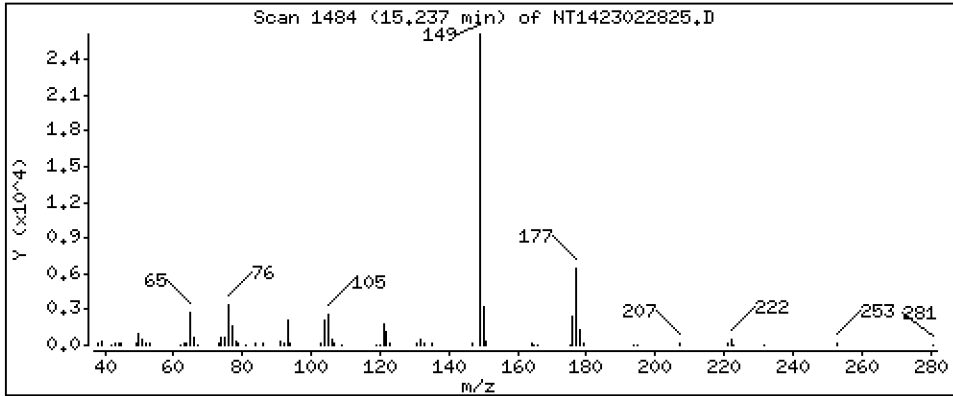
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,5434 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

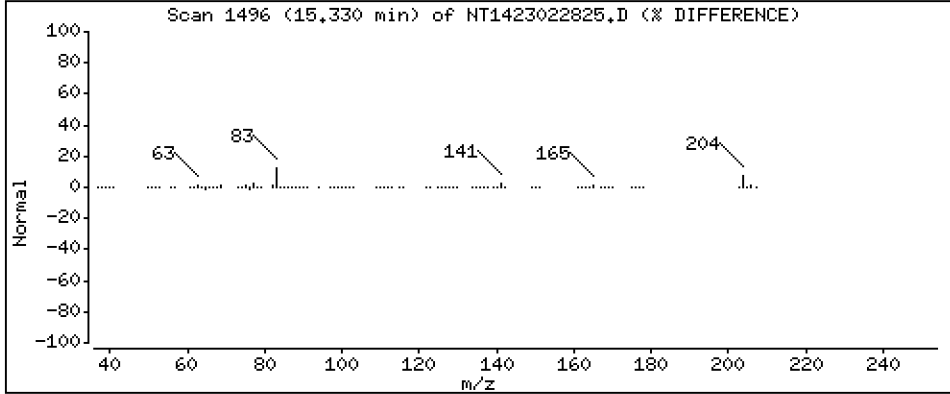
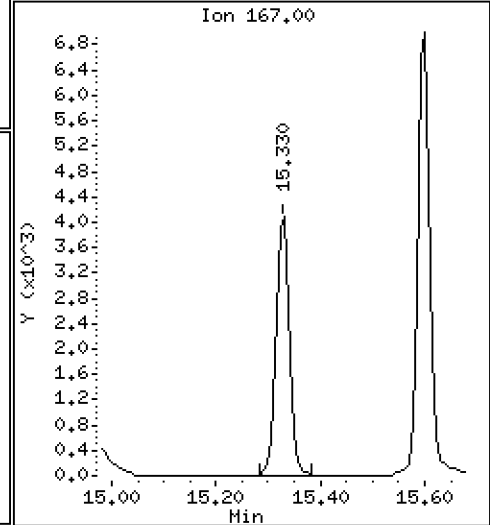
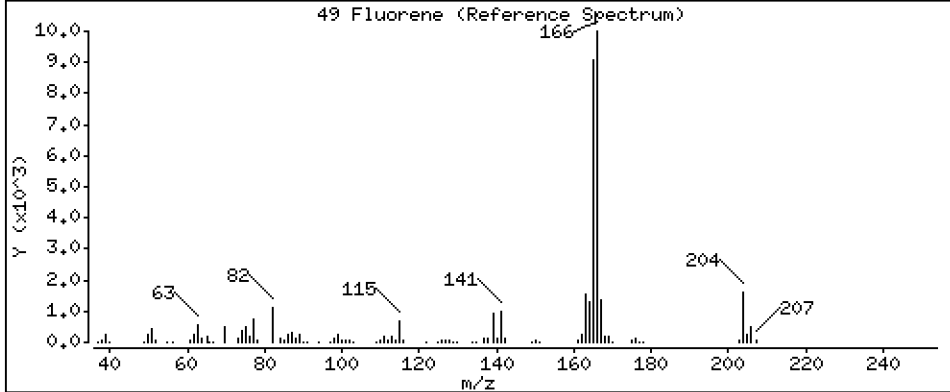
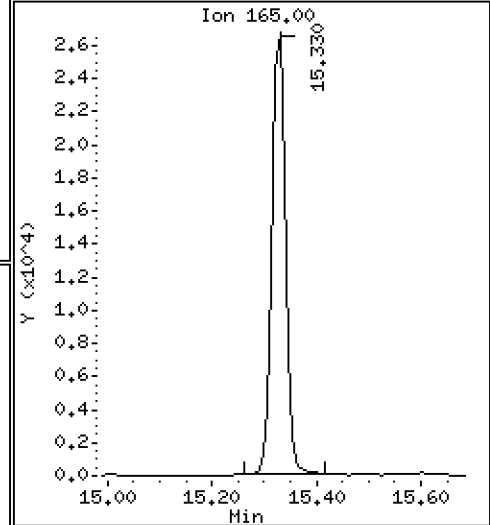
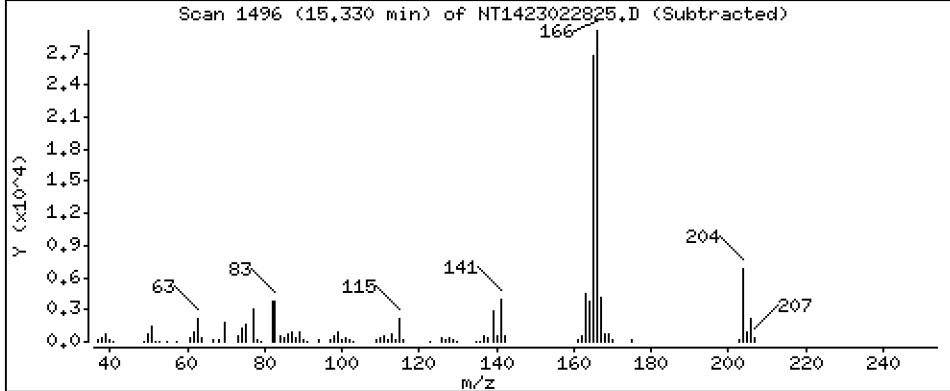
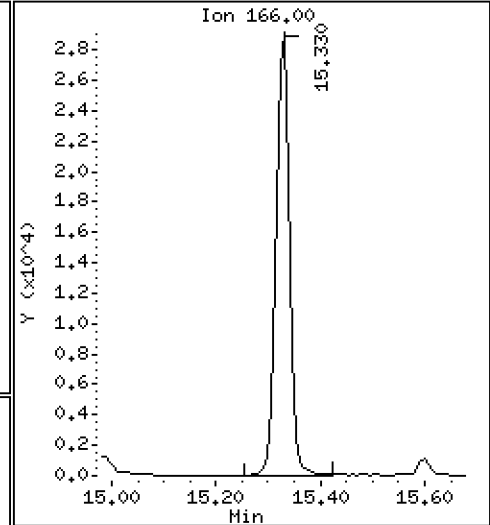
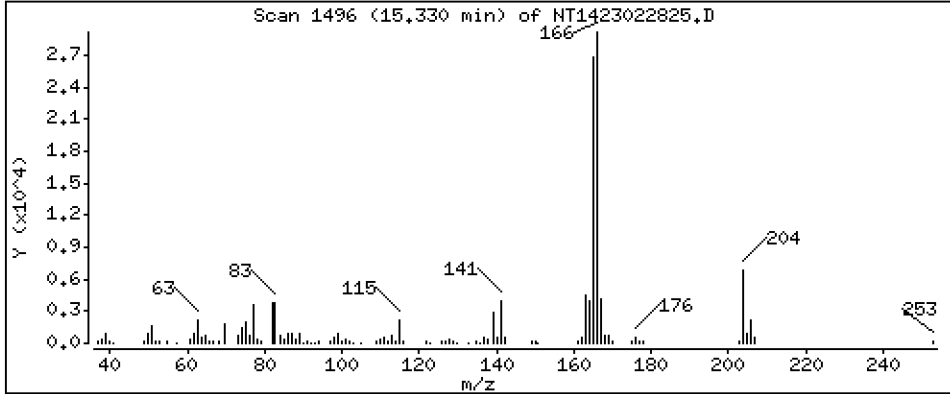
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,5354 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

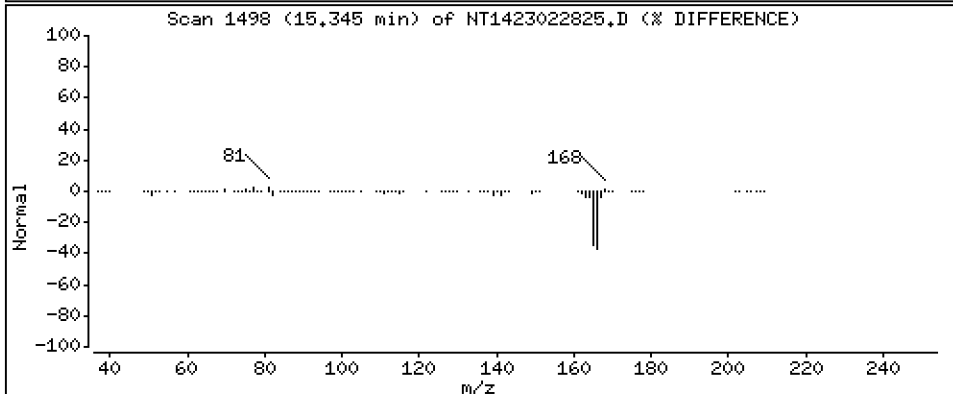
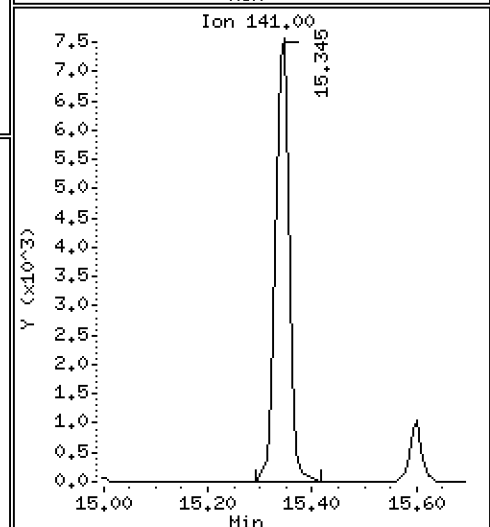
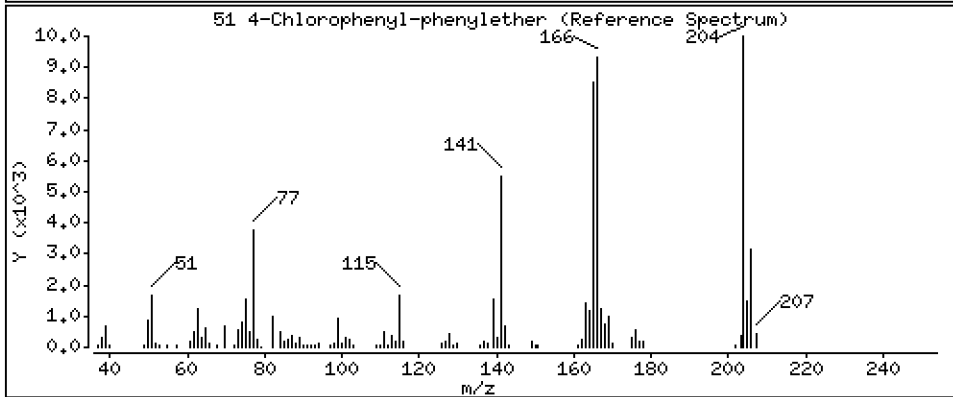
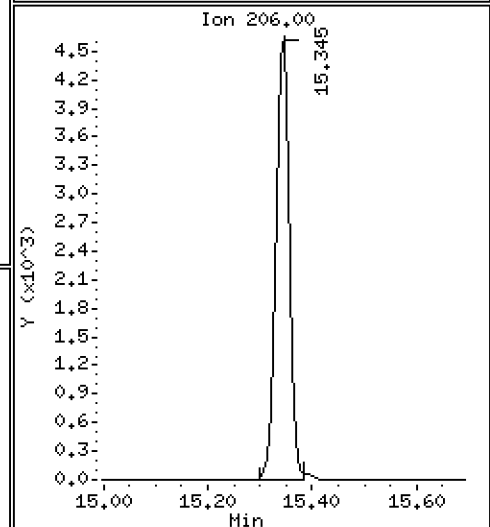
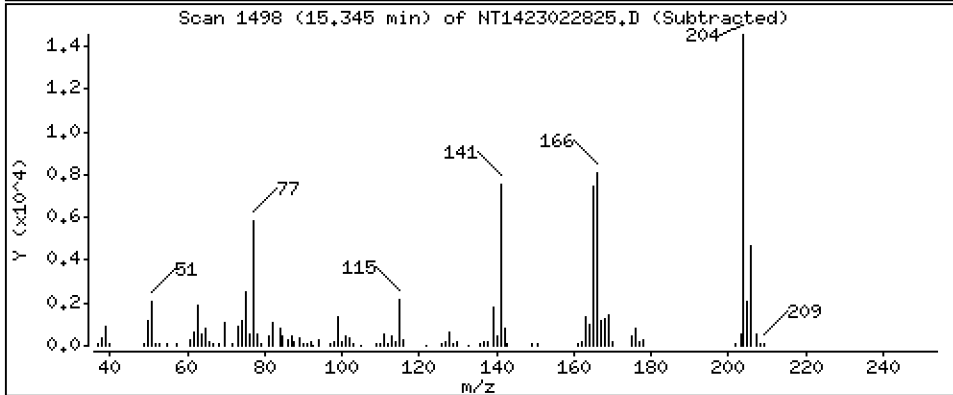
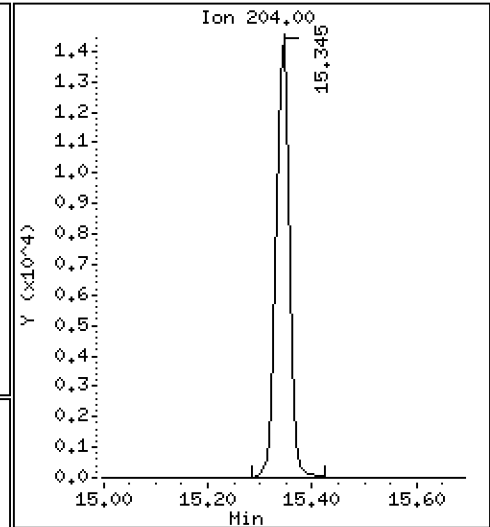
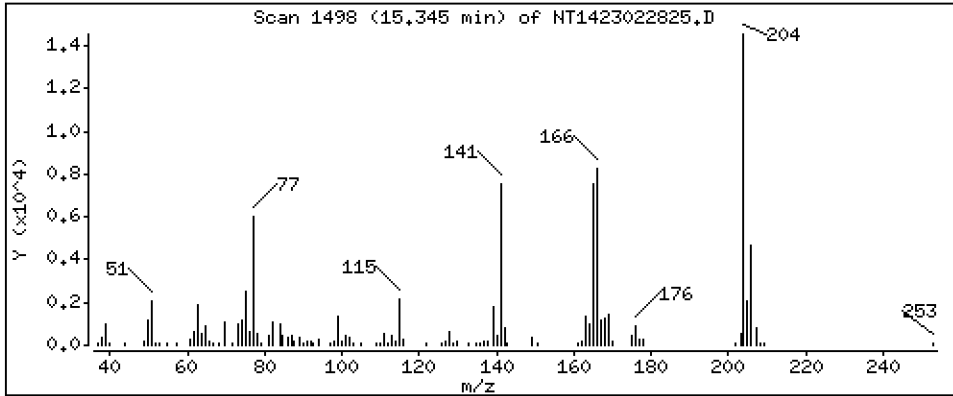
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,5072 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

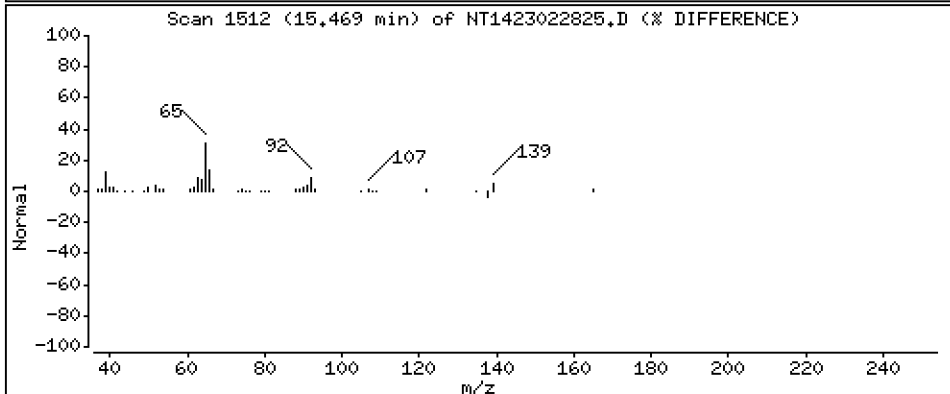
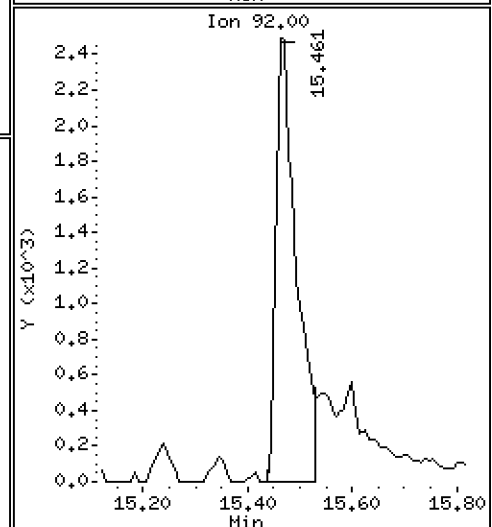
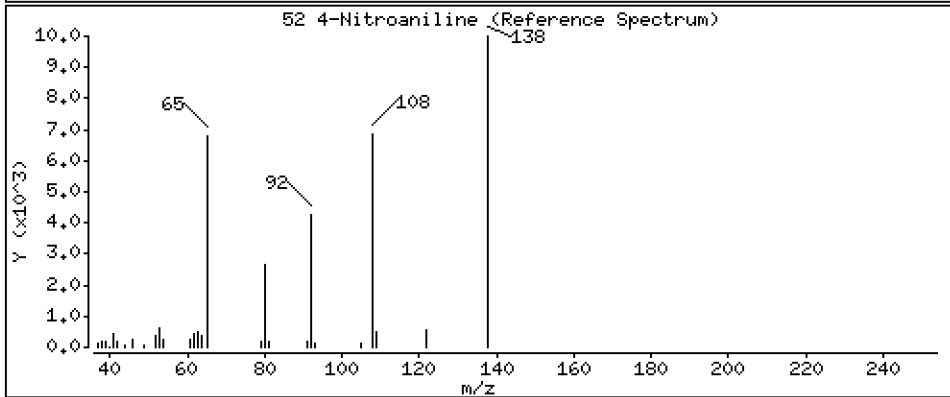
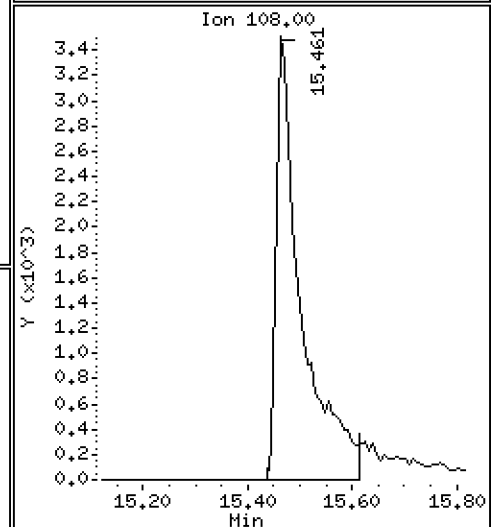
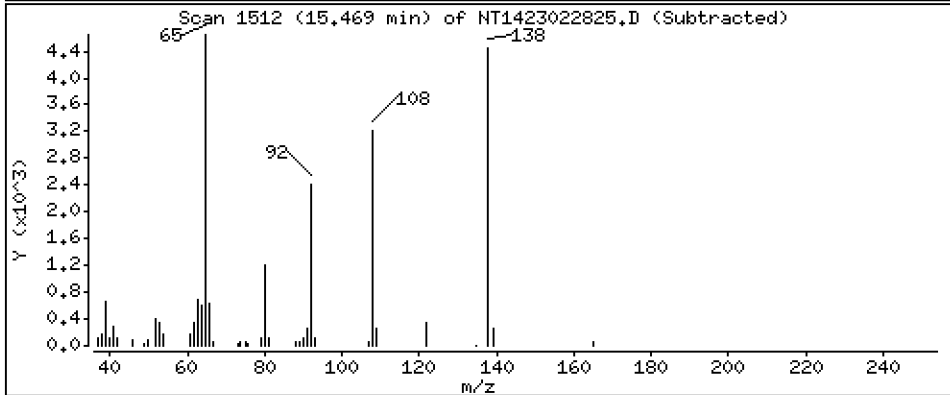
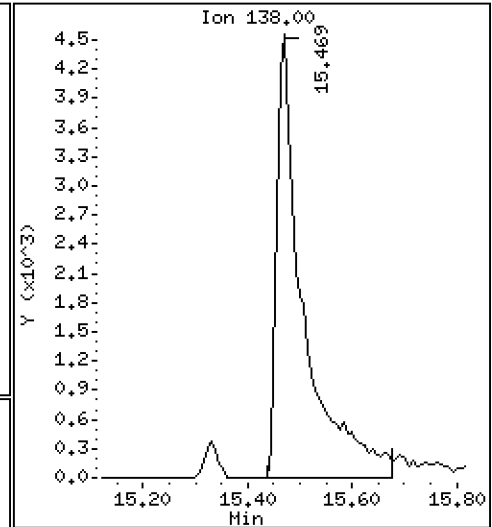
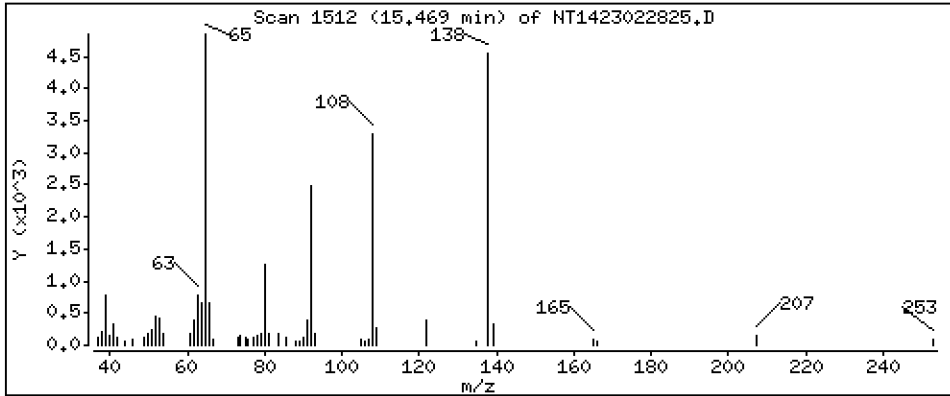
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,8070 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

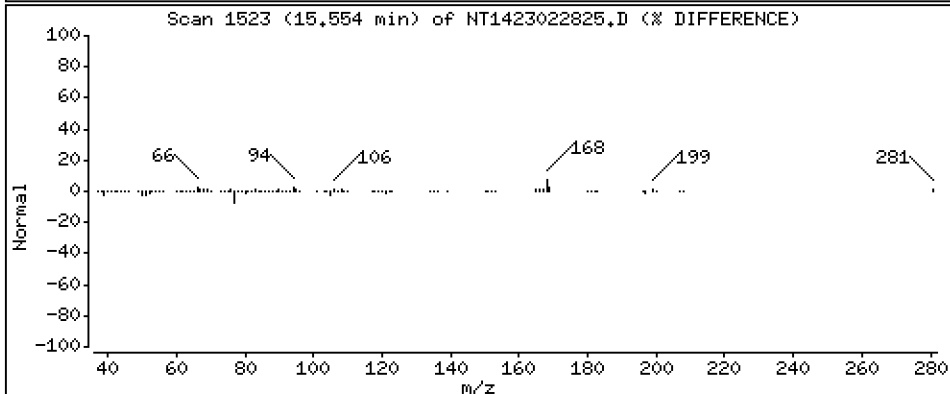
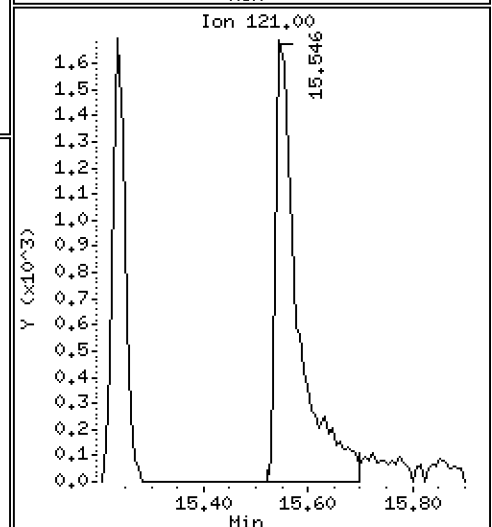
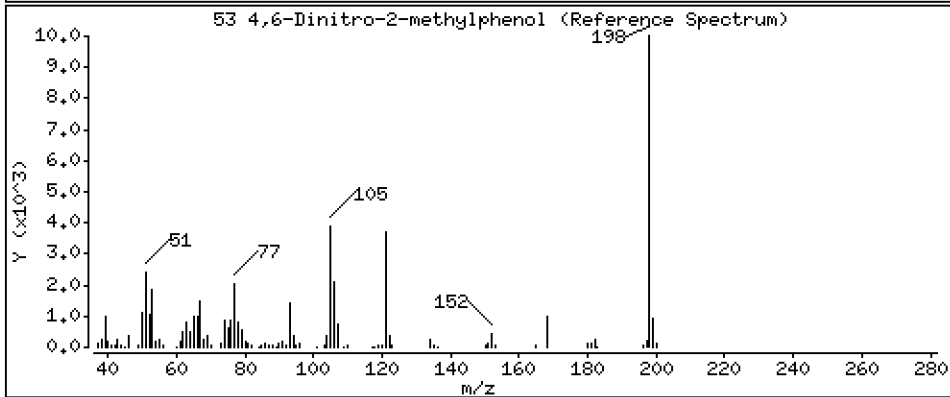
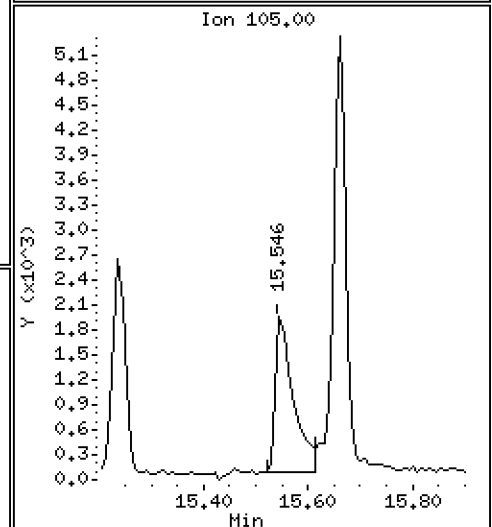
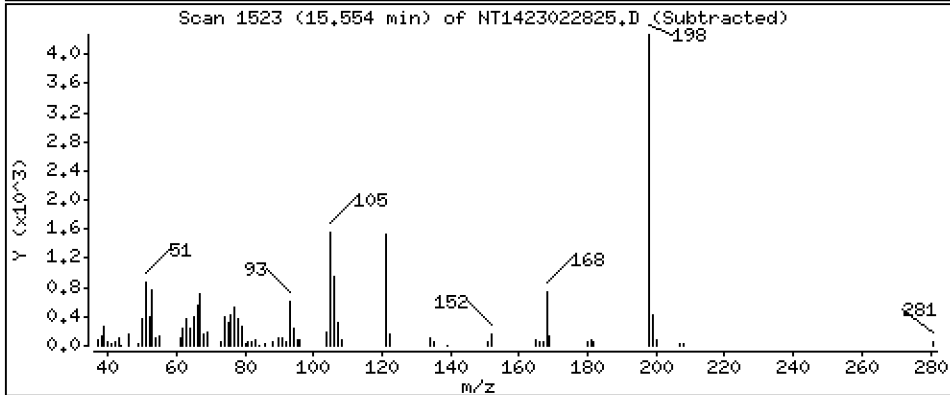
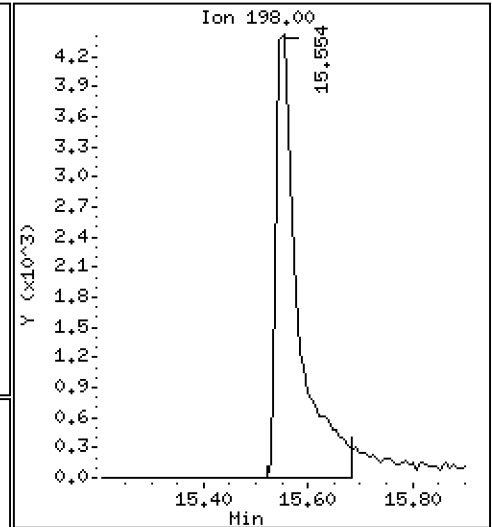
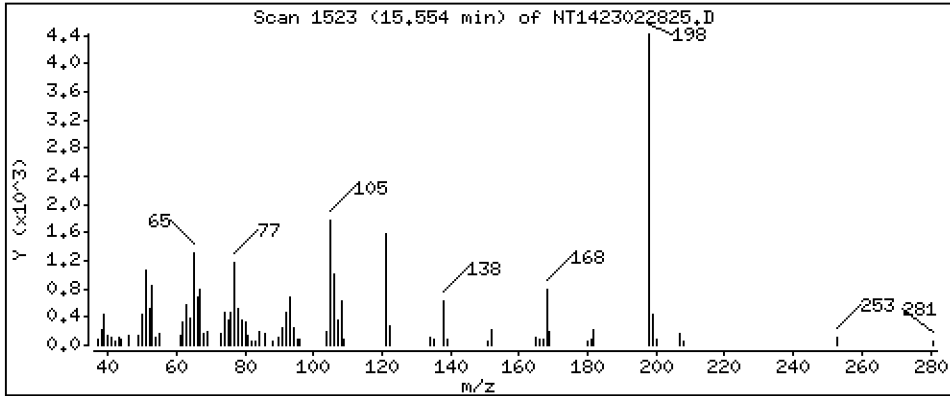
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,7654 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

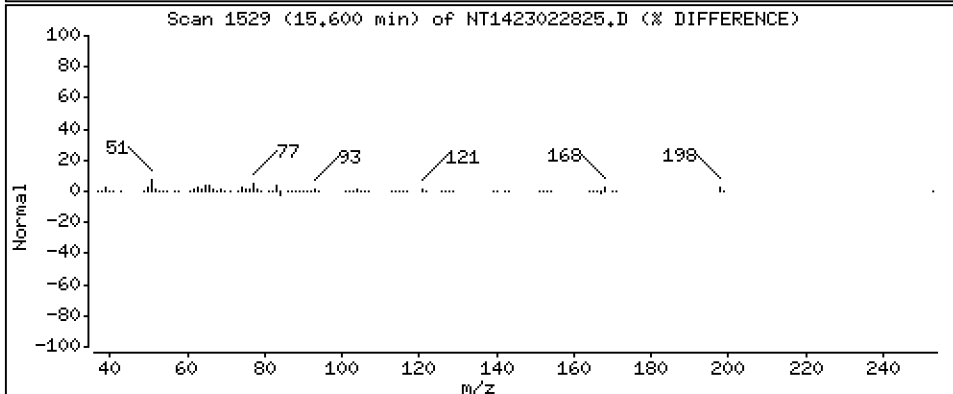
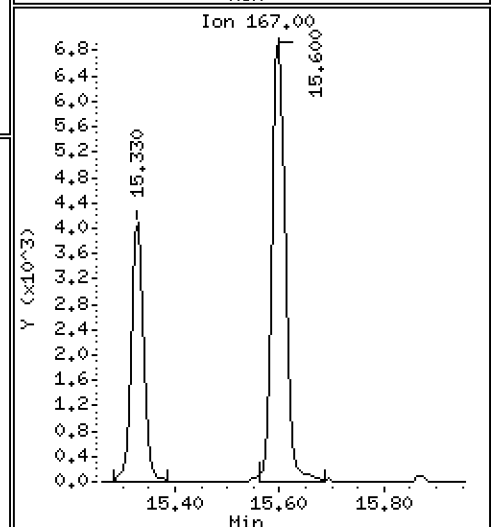
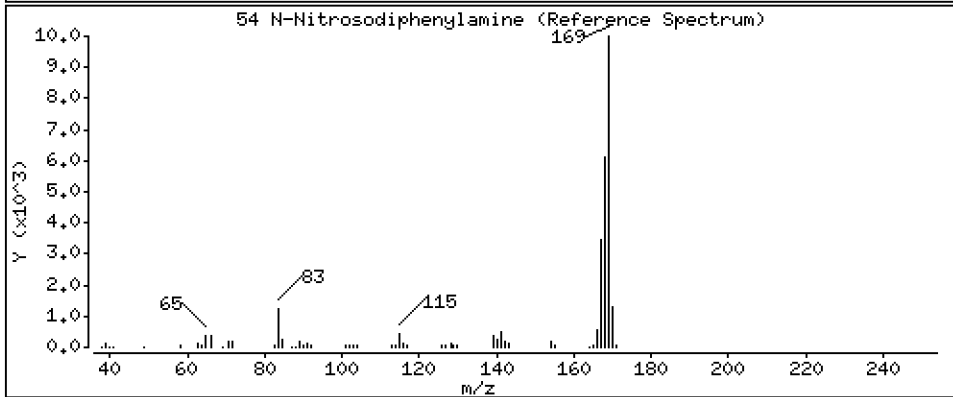
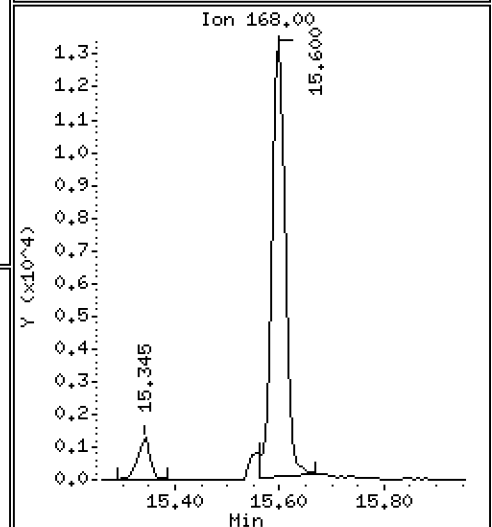
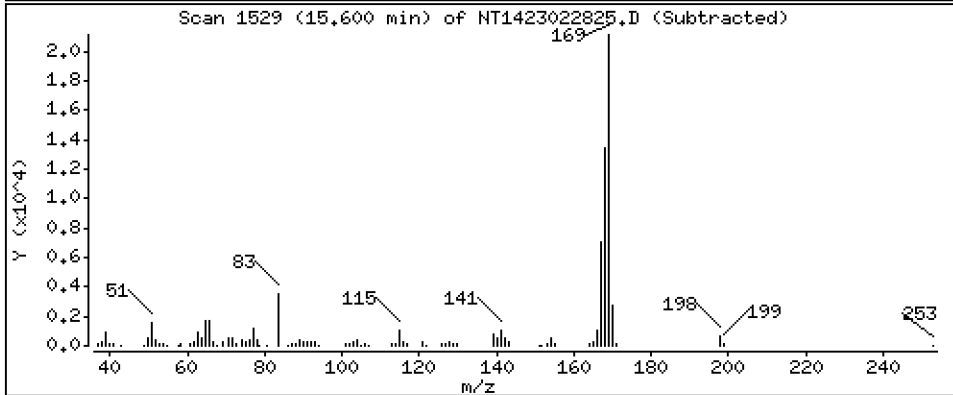
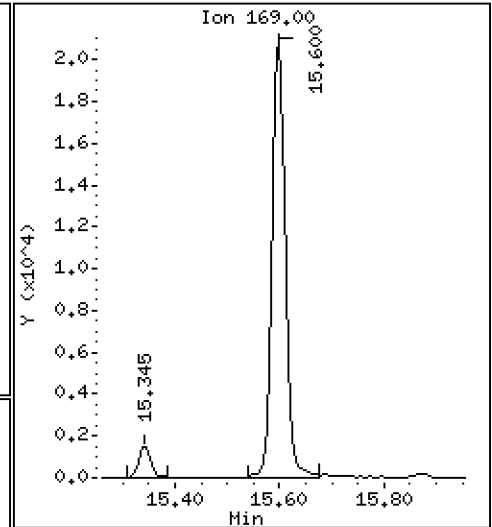
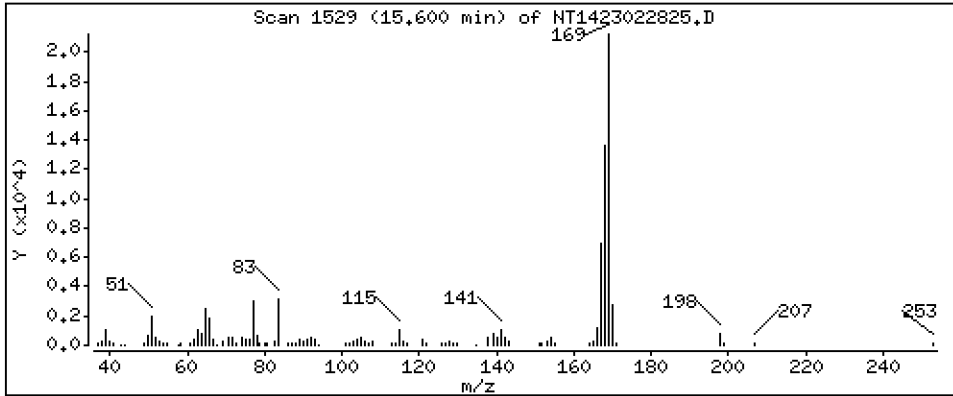
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,5552 ug/mL





Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

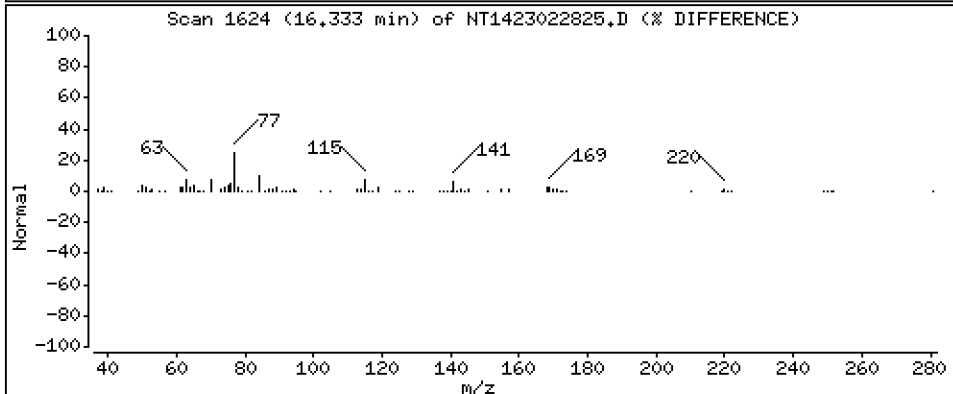
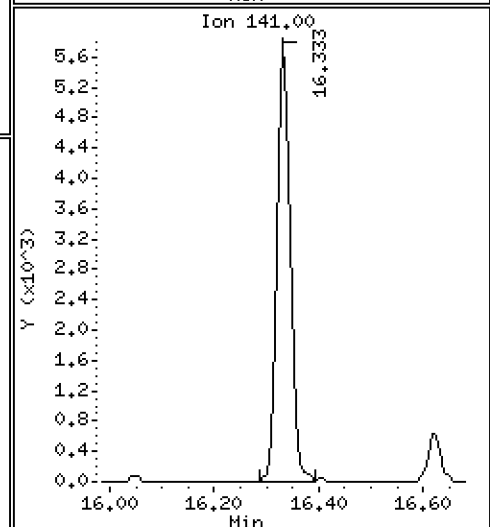
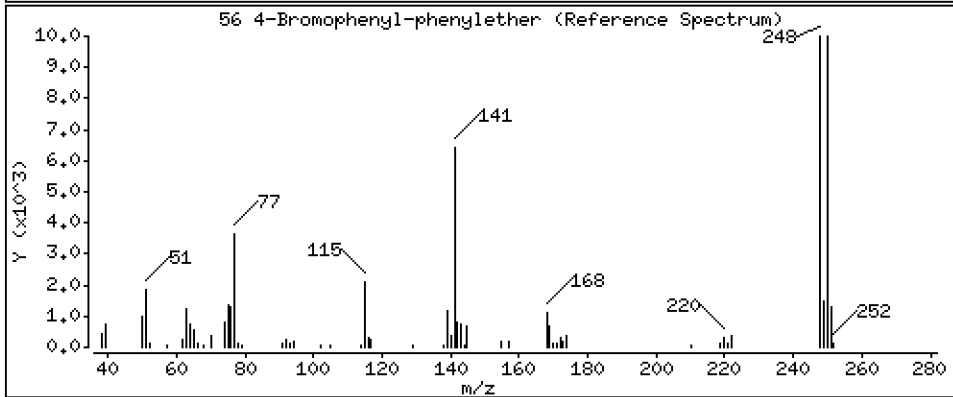
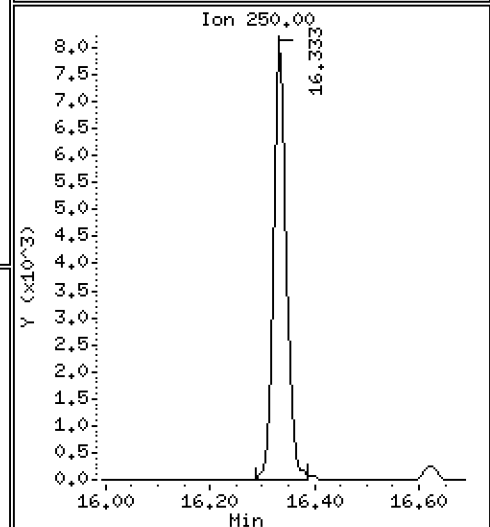
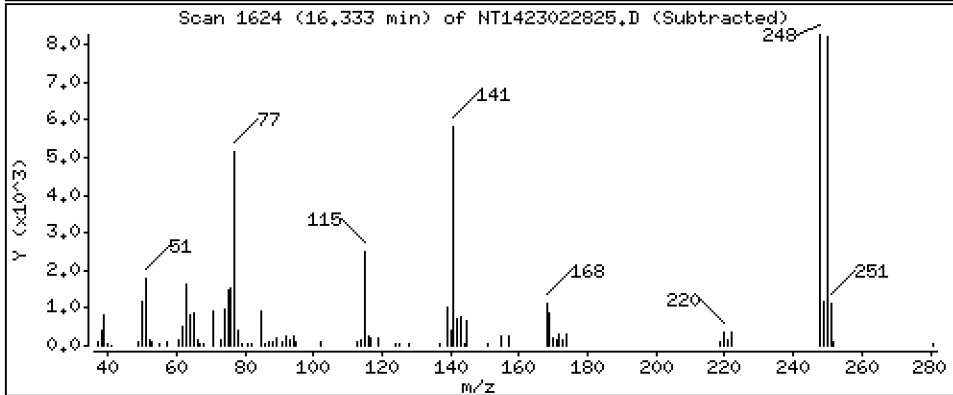
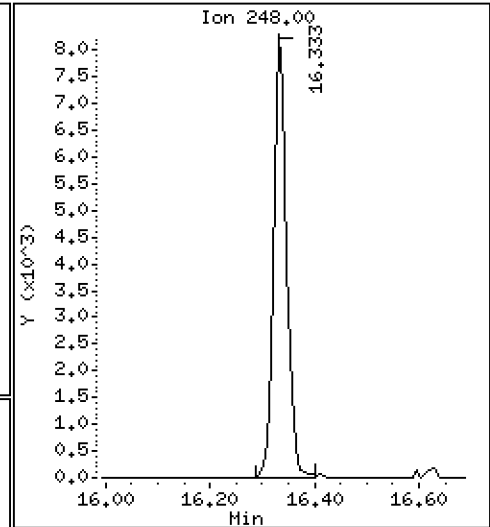
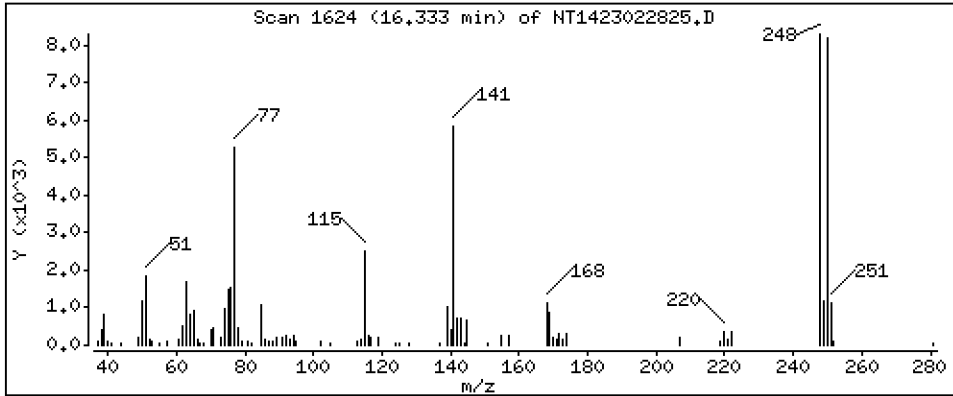
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,5135 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

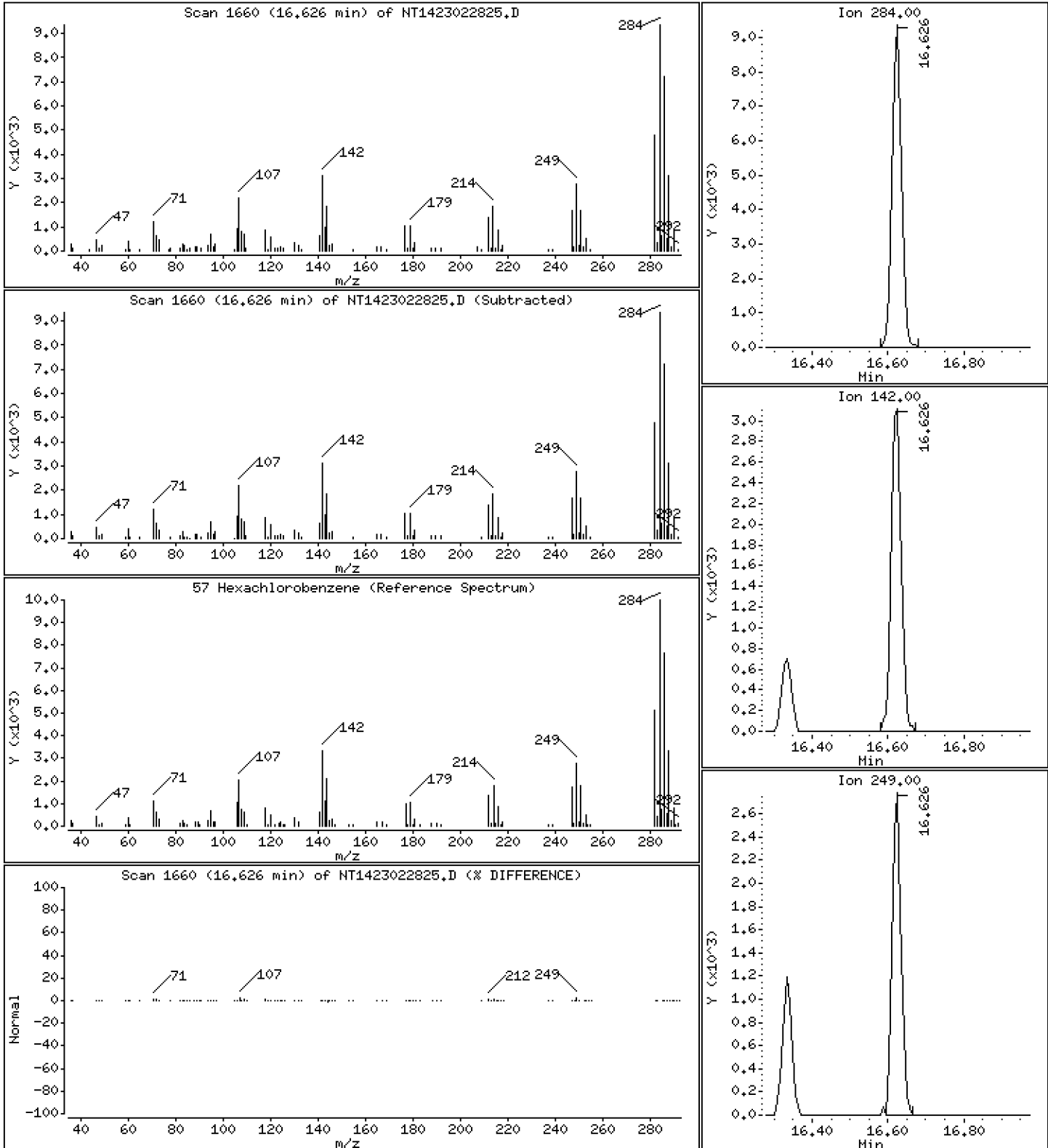
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,5198 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

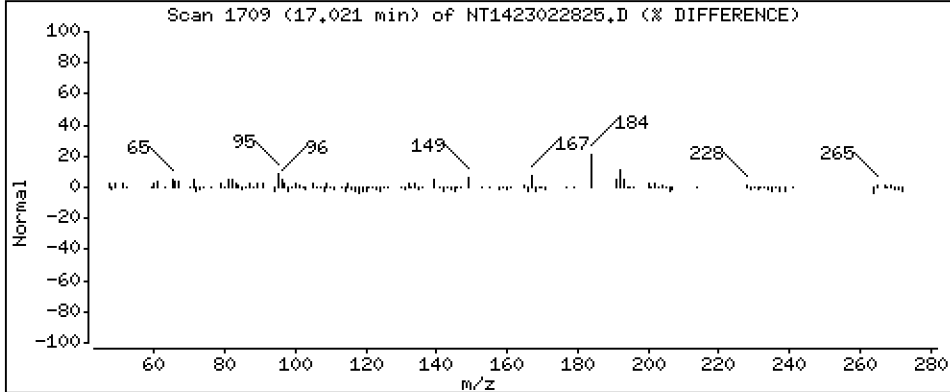
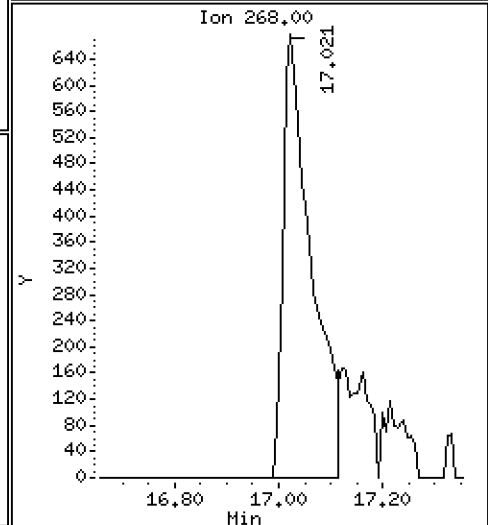
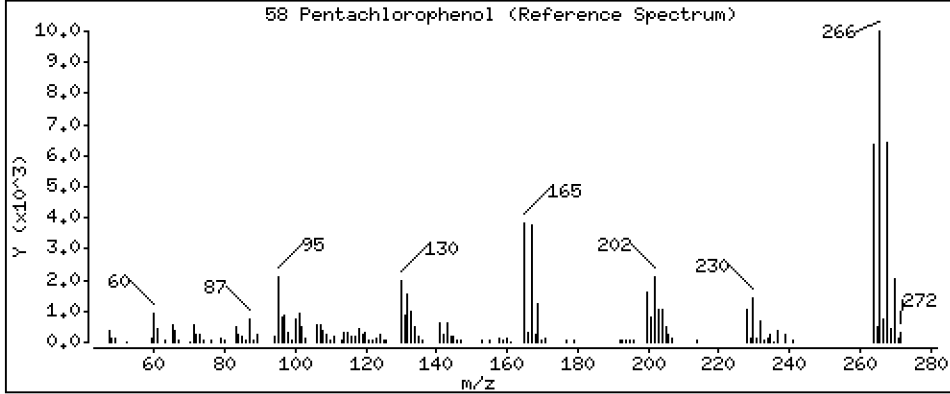
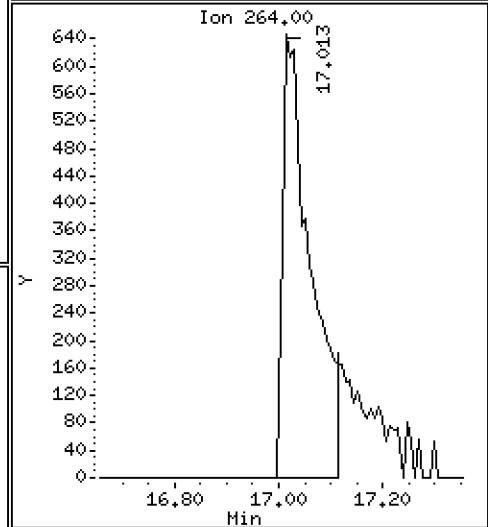
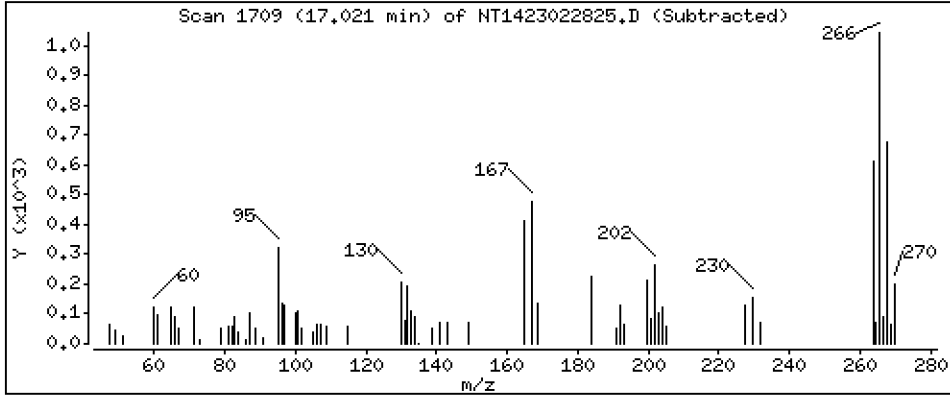
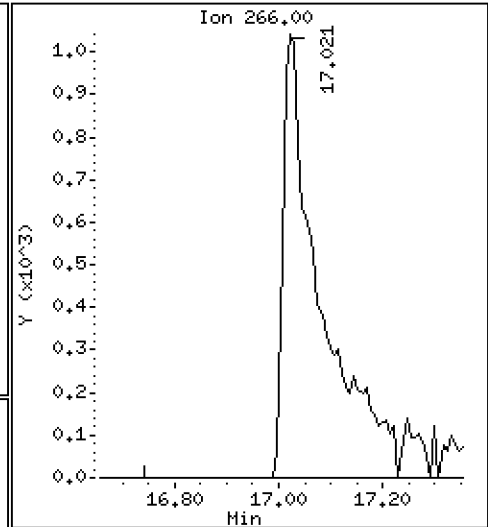
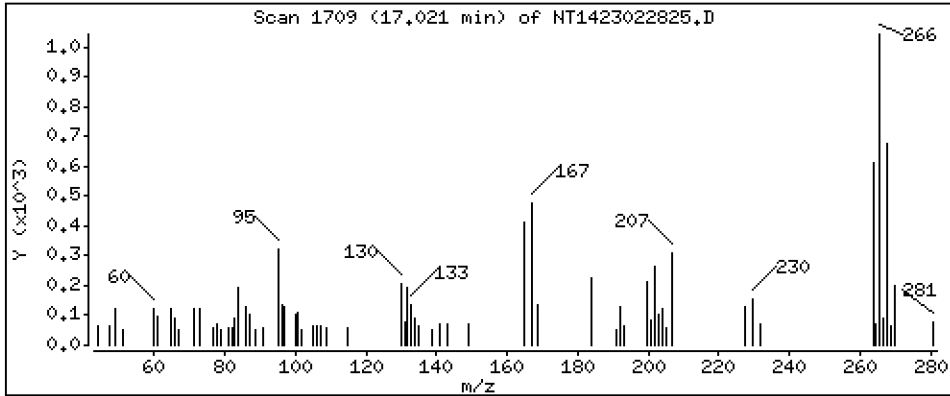
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,4279 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

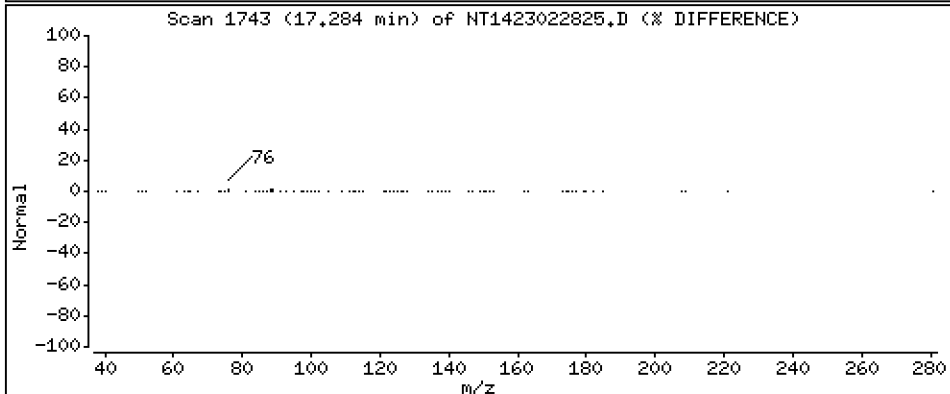
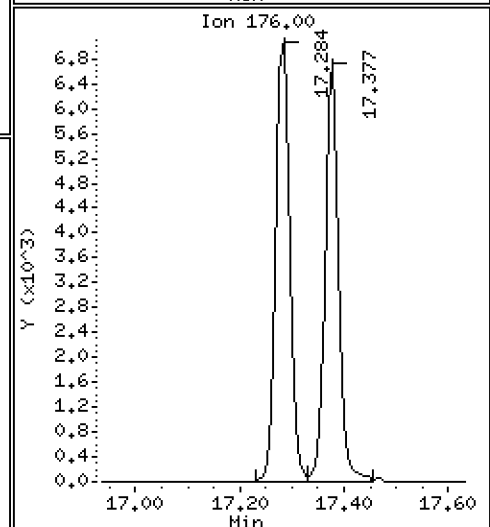
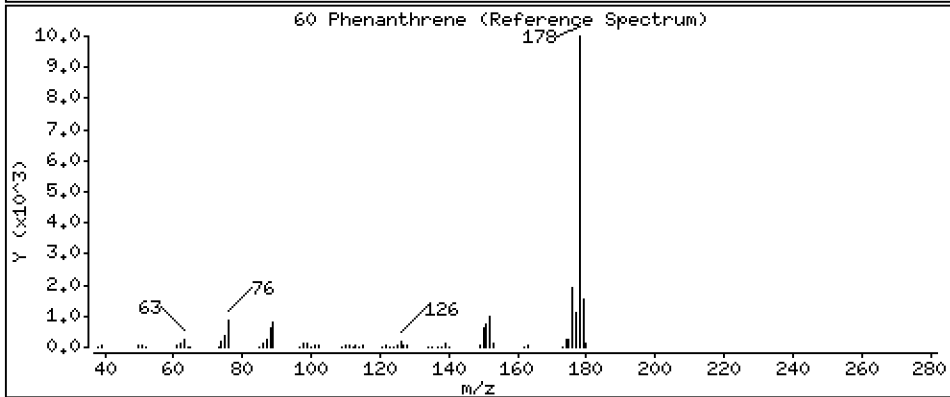
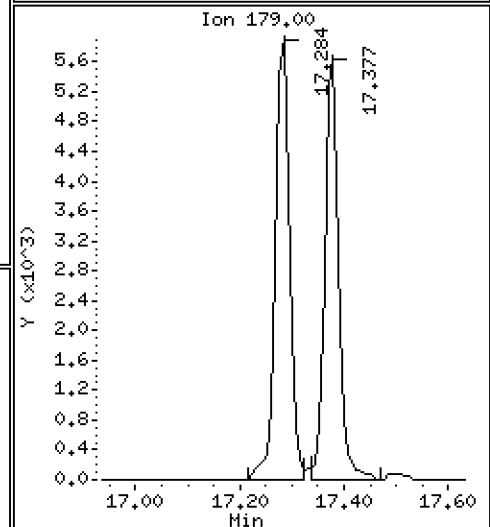
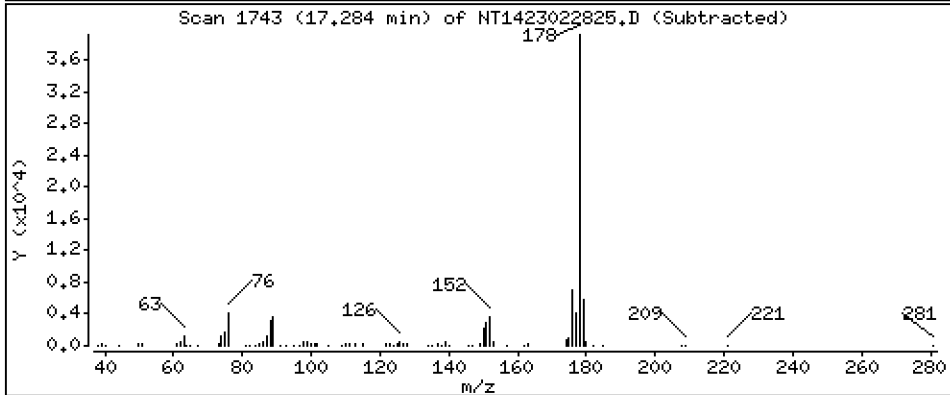
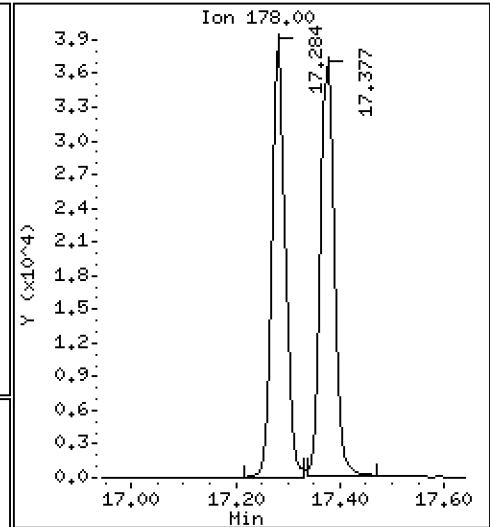
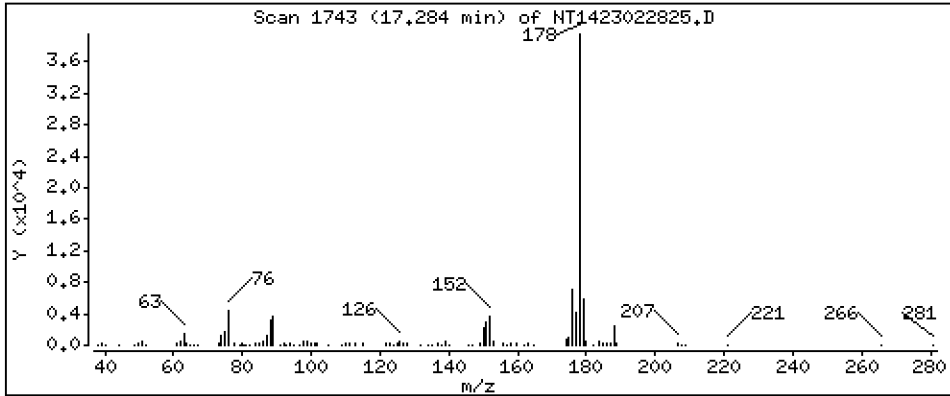
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,5125 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

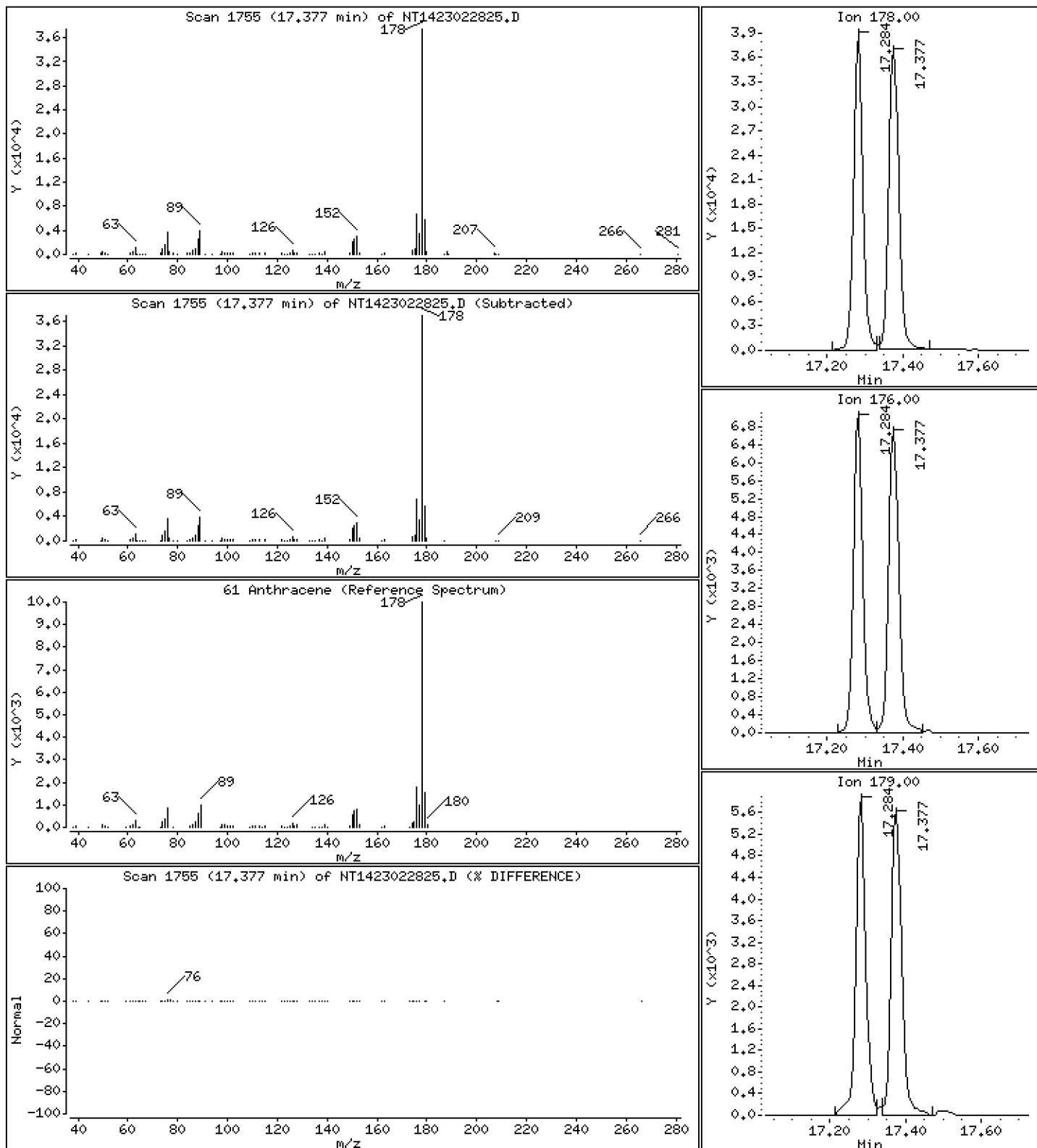
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,5189 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

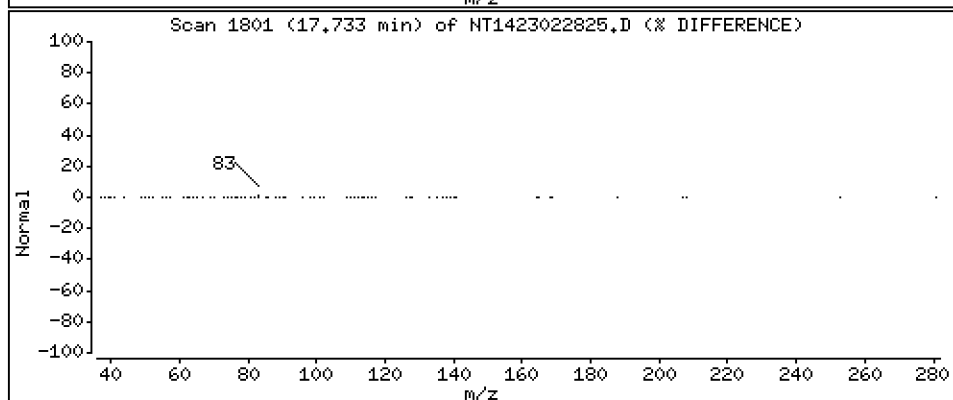
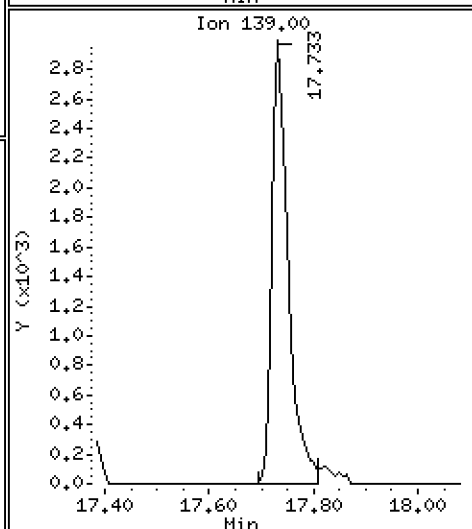
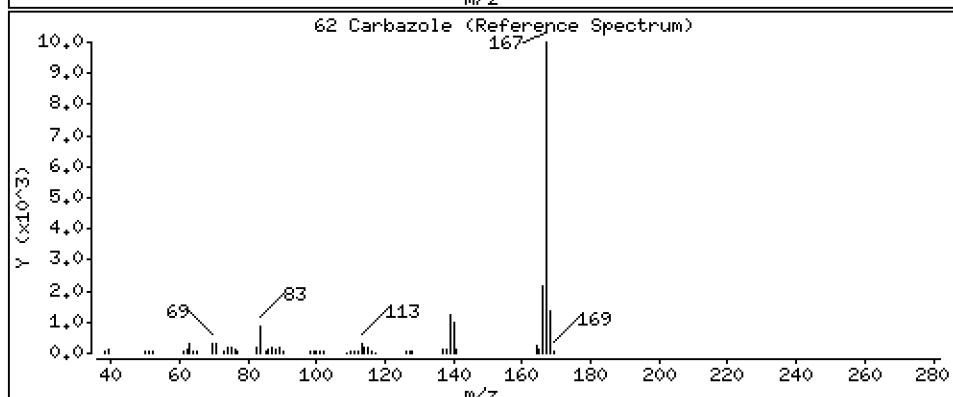
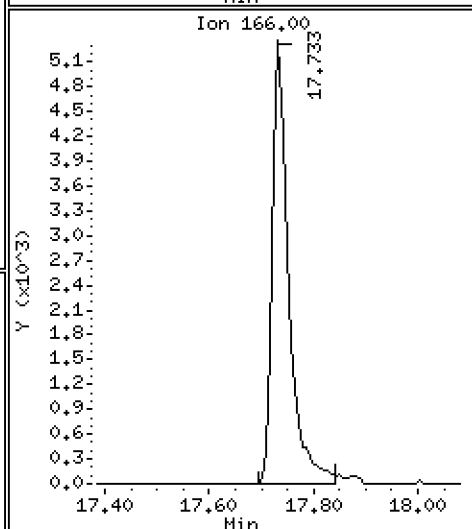
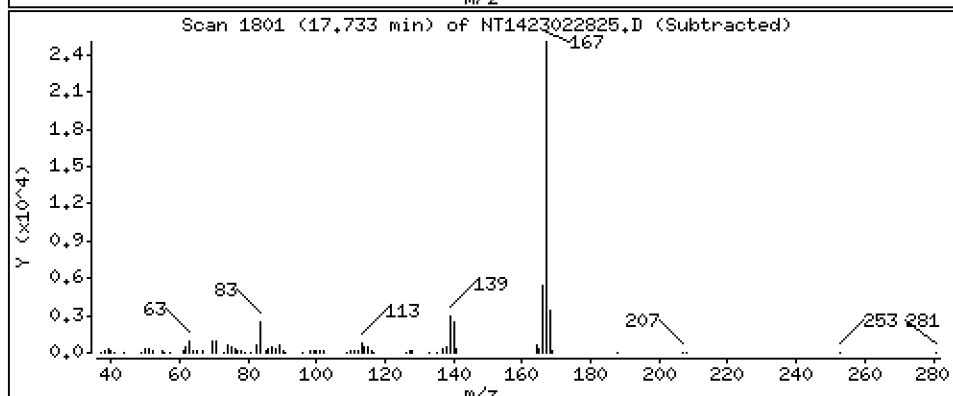
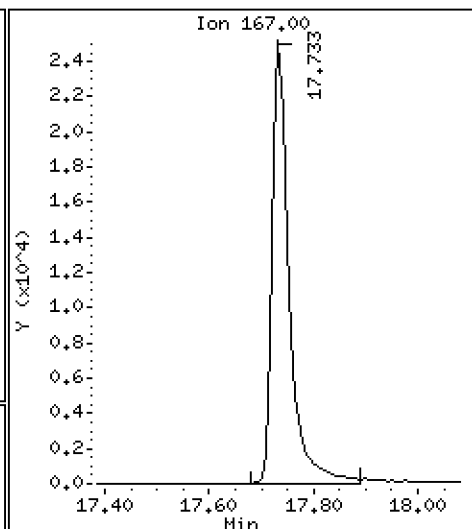
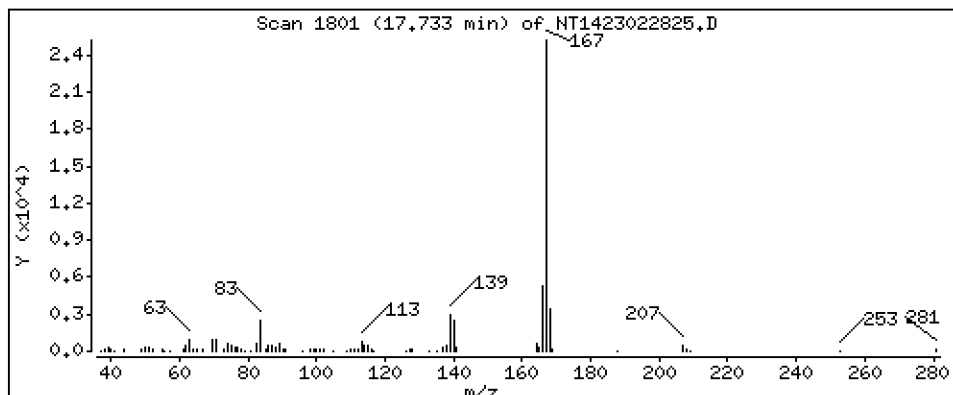
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,4950 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

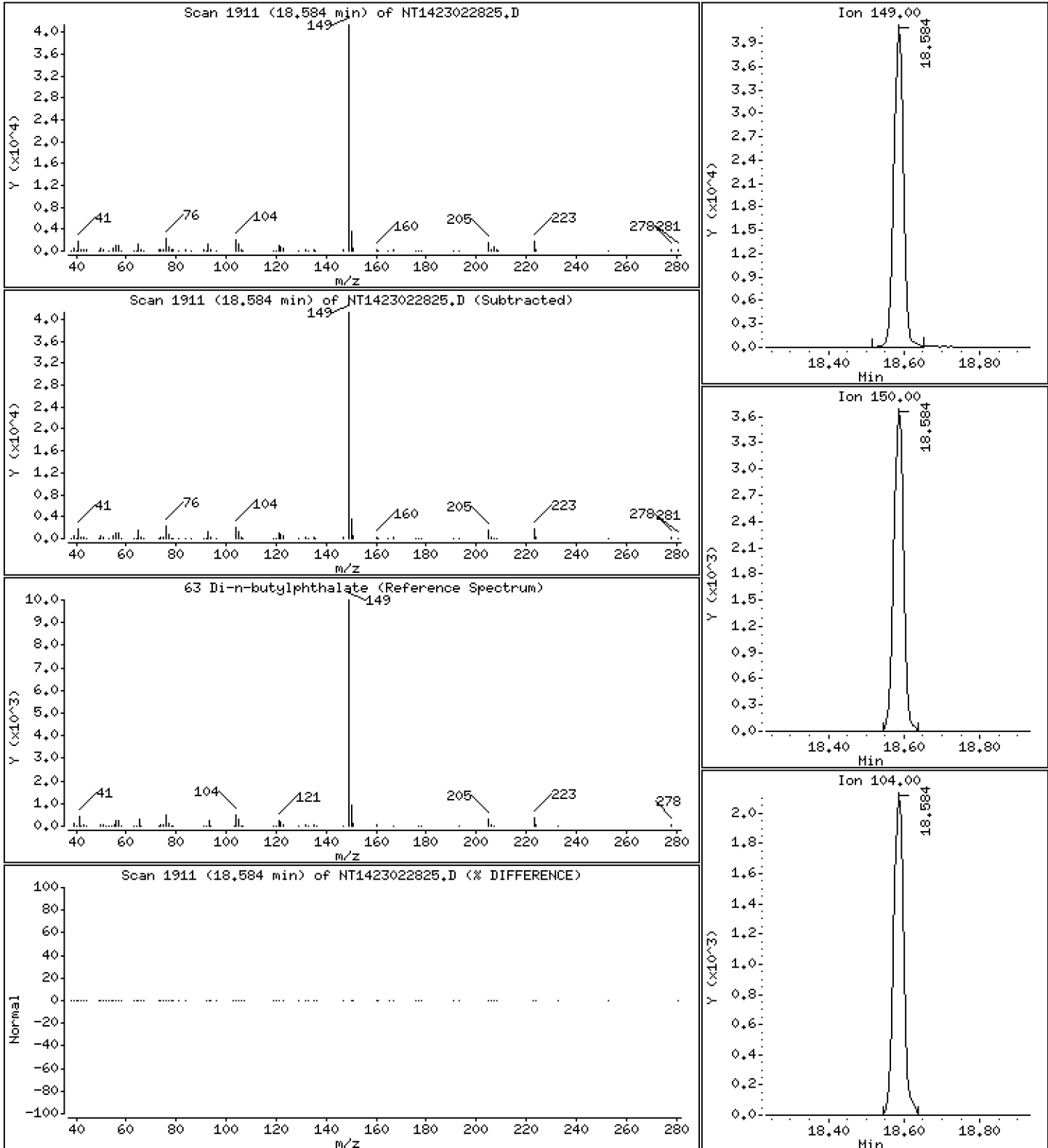
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,4784 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

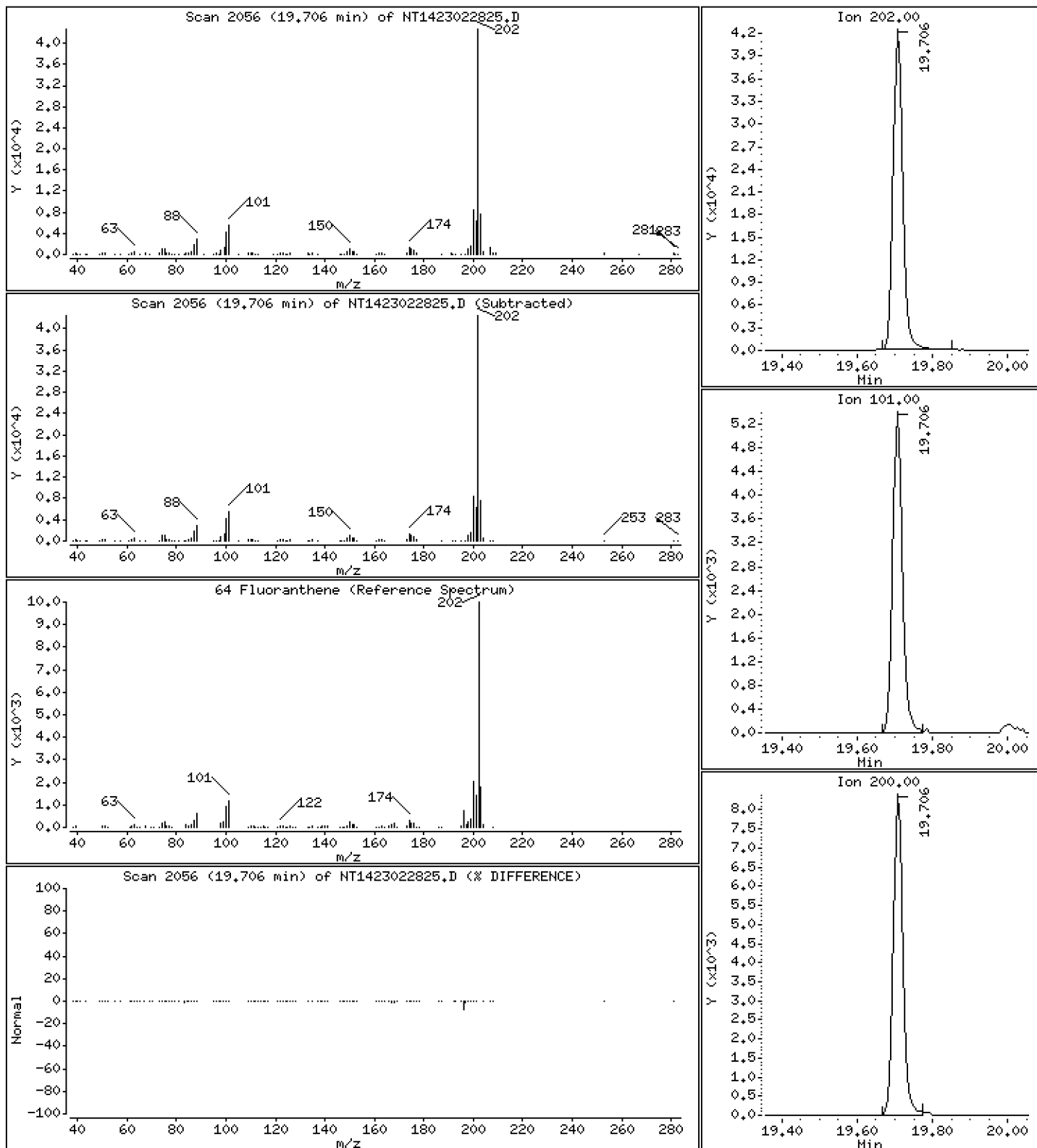
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,5129 ug/mL





Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

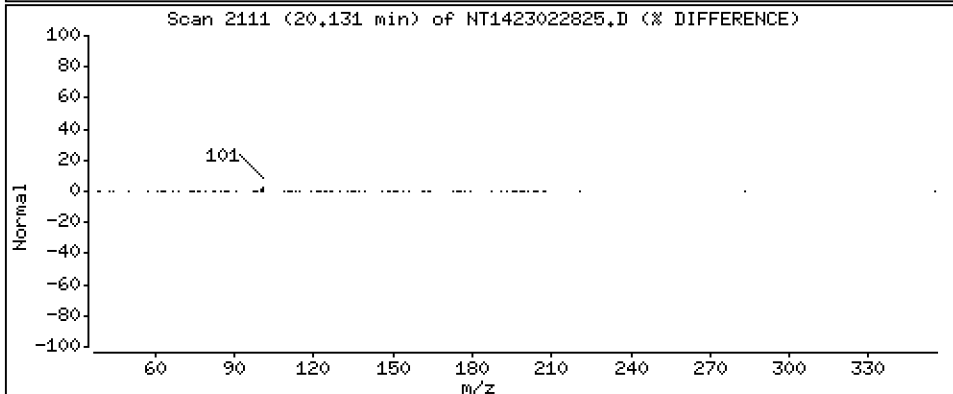
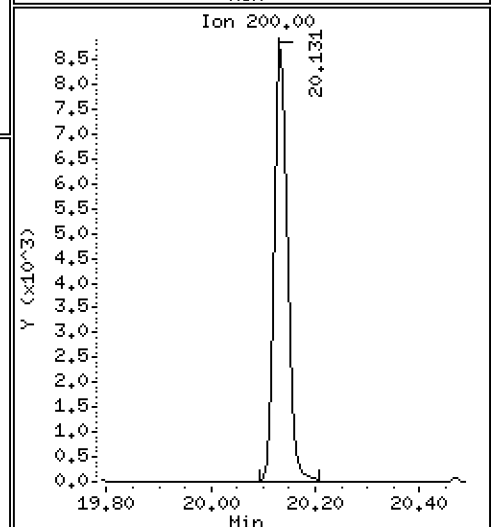
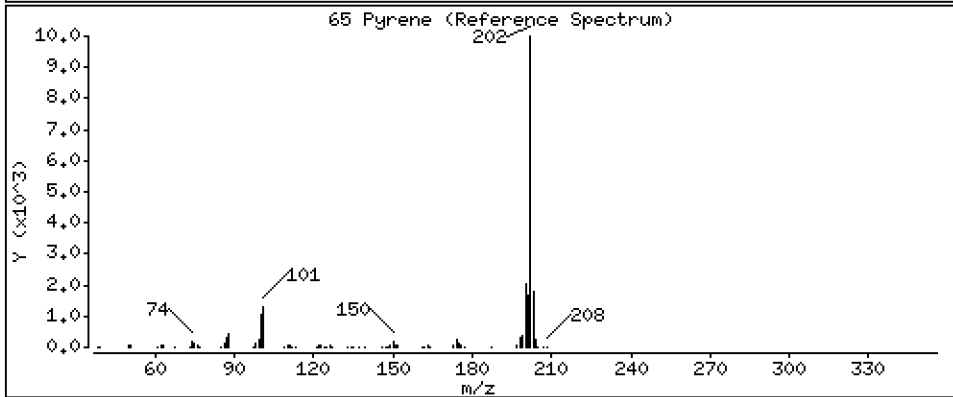
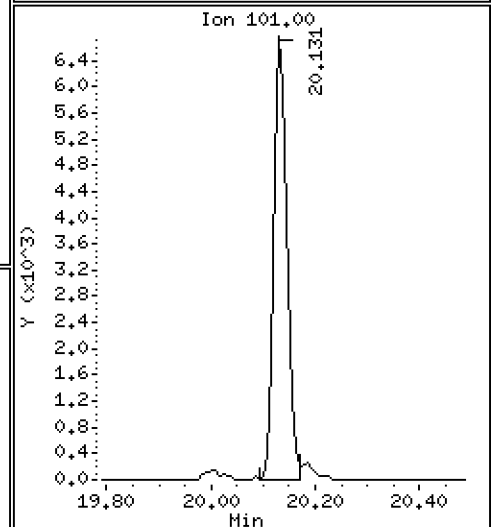
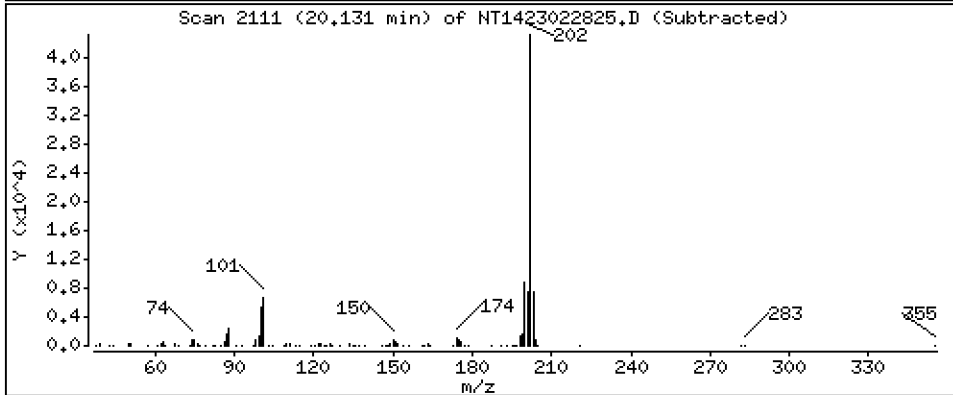
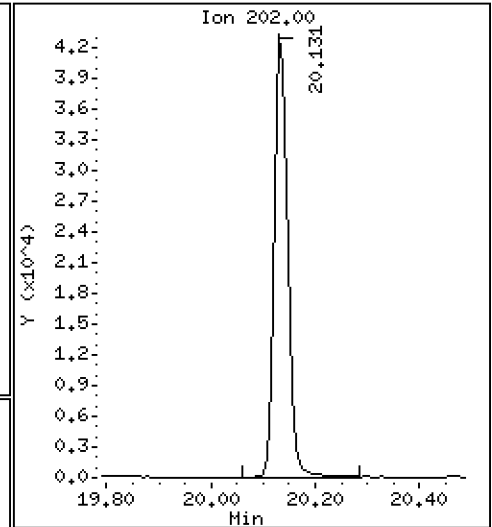
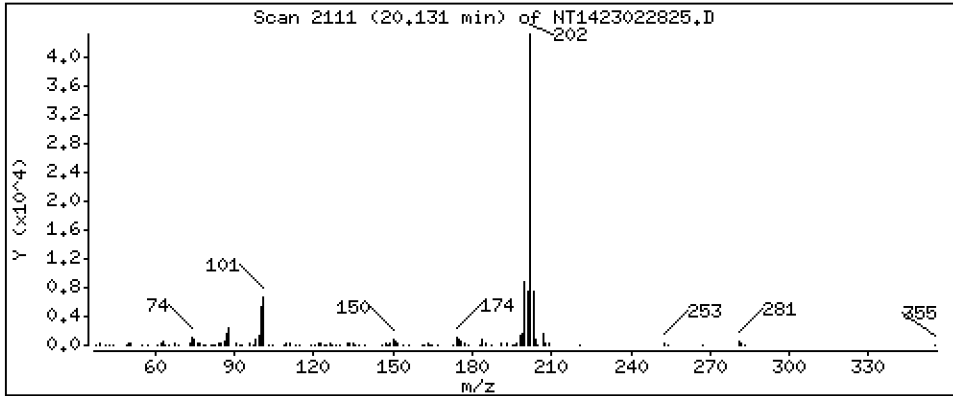
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,5119 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

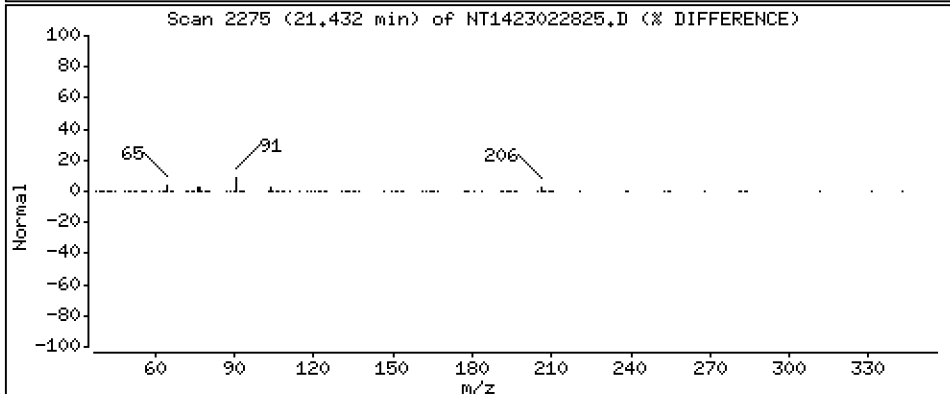
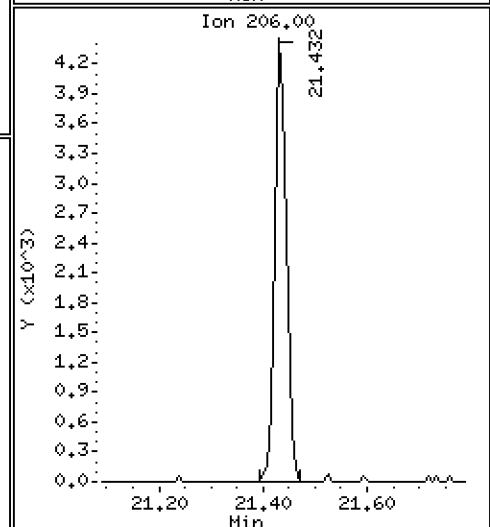
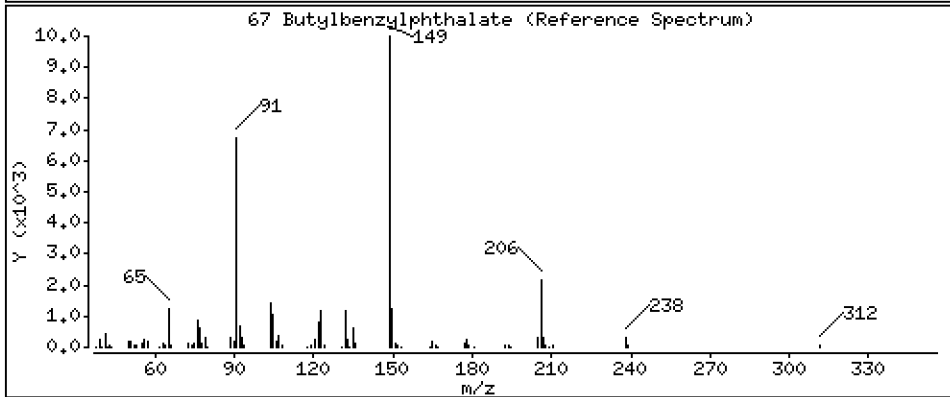
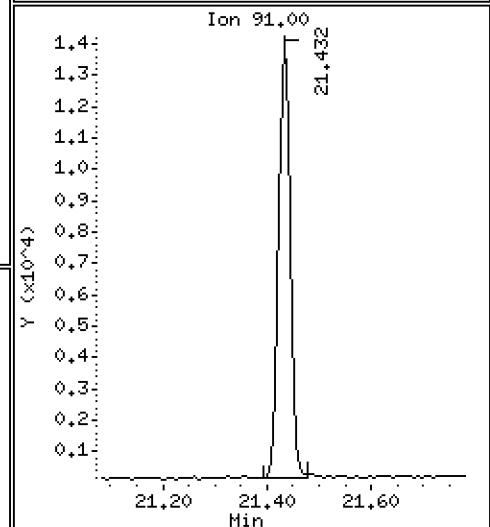
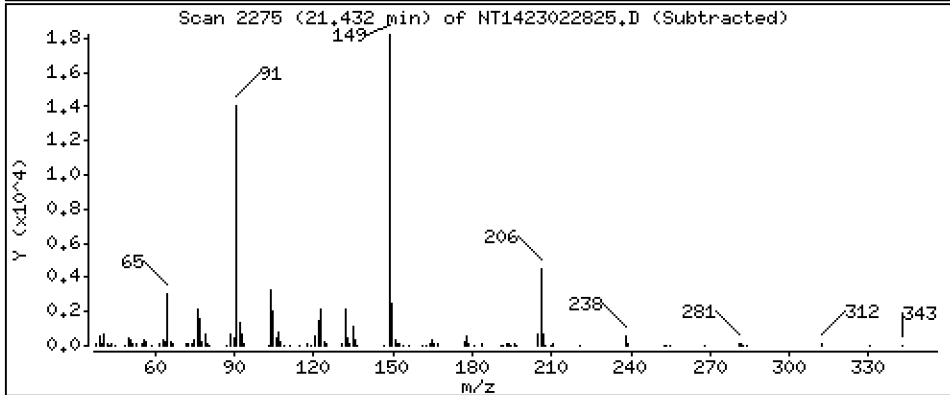
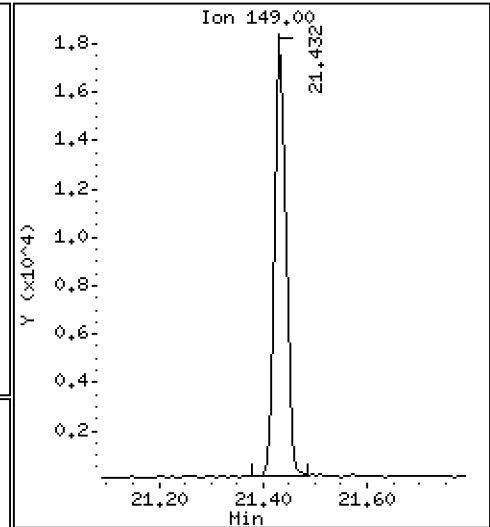
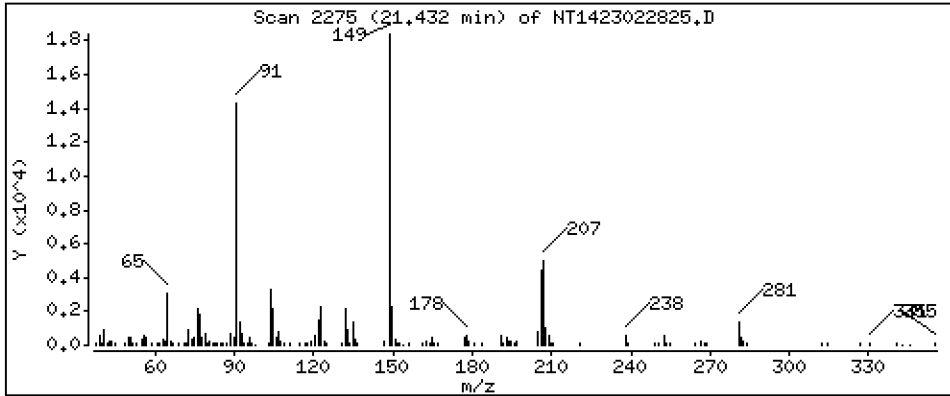
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,5119 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

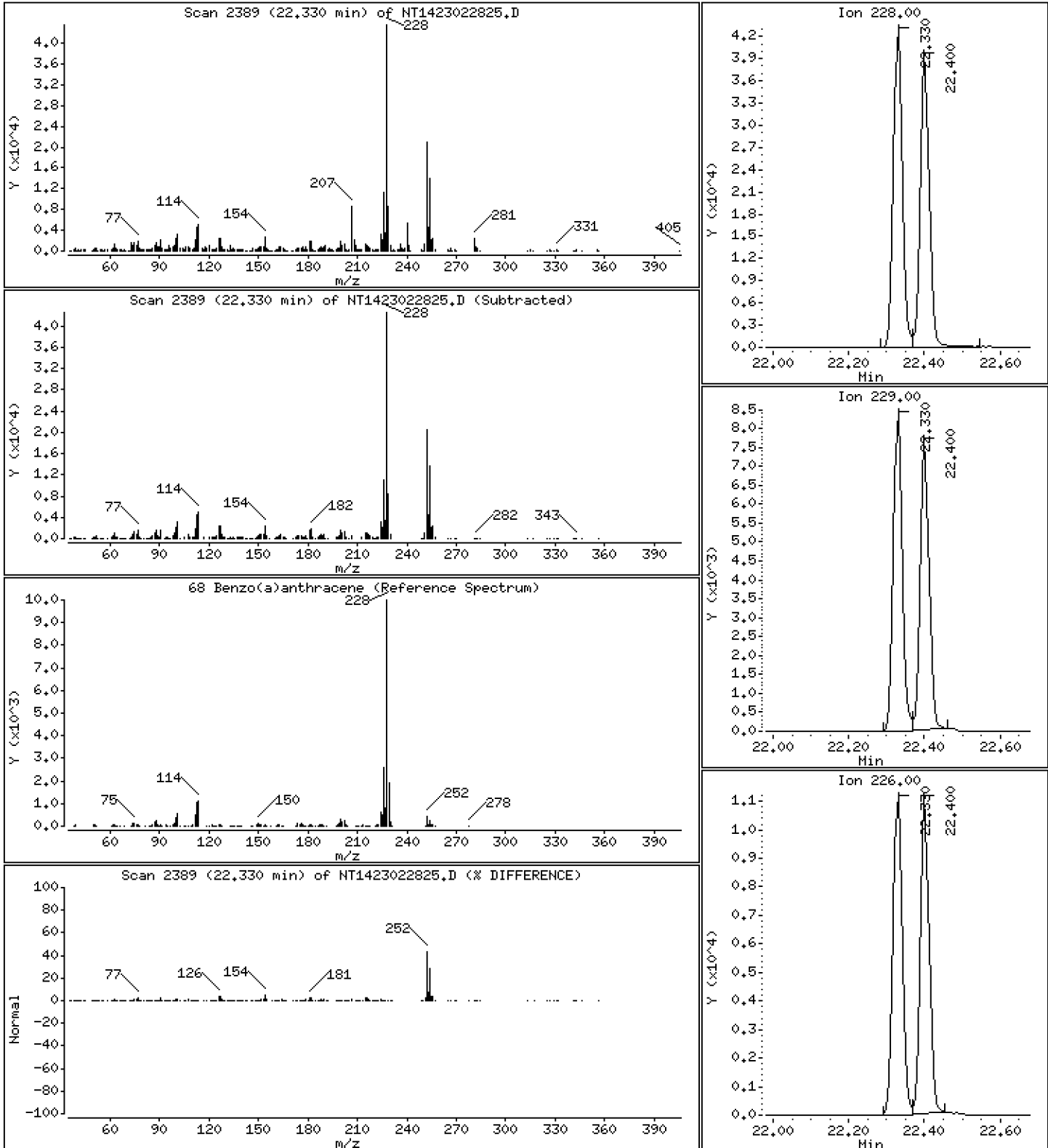
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,5453 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

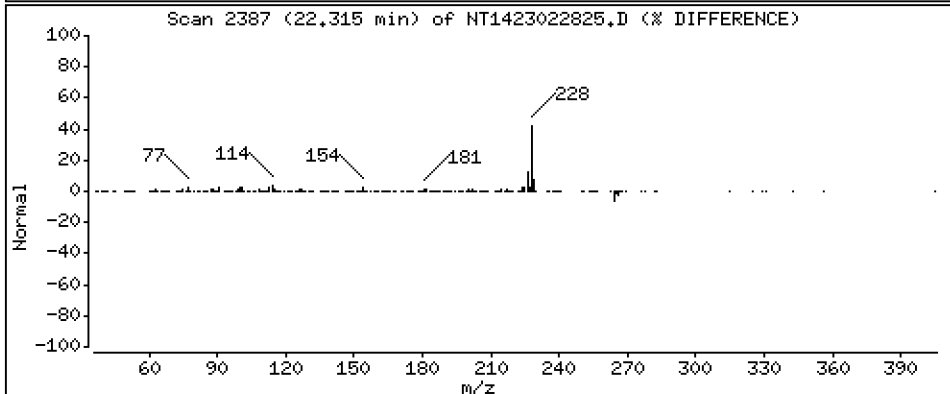
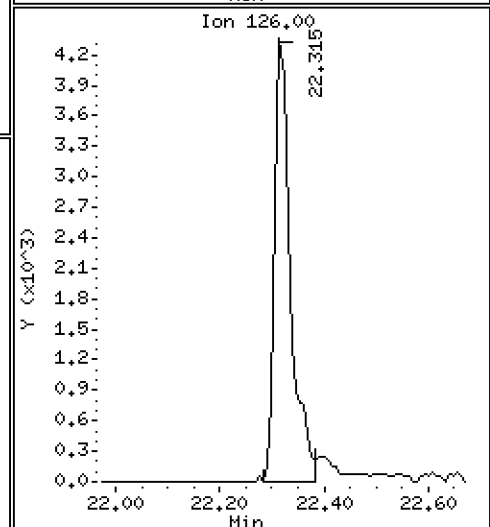
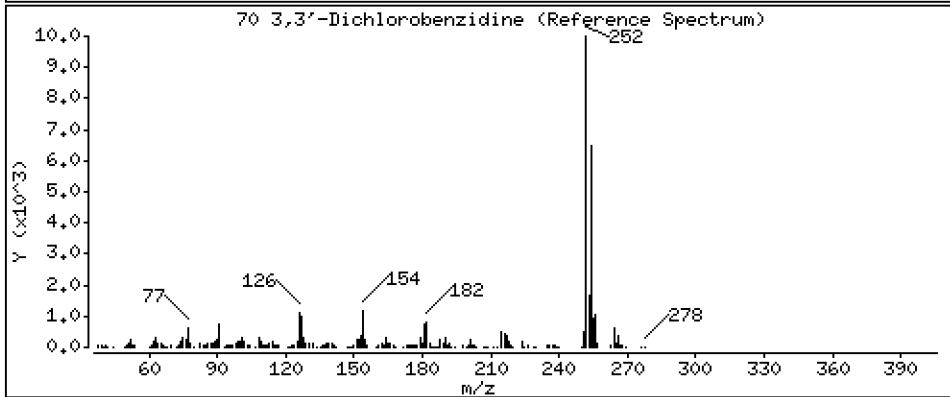
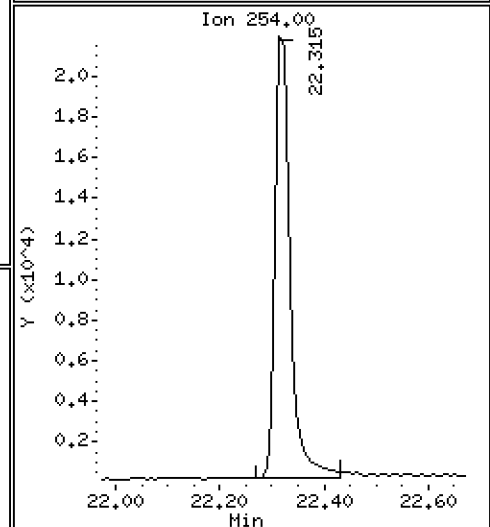
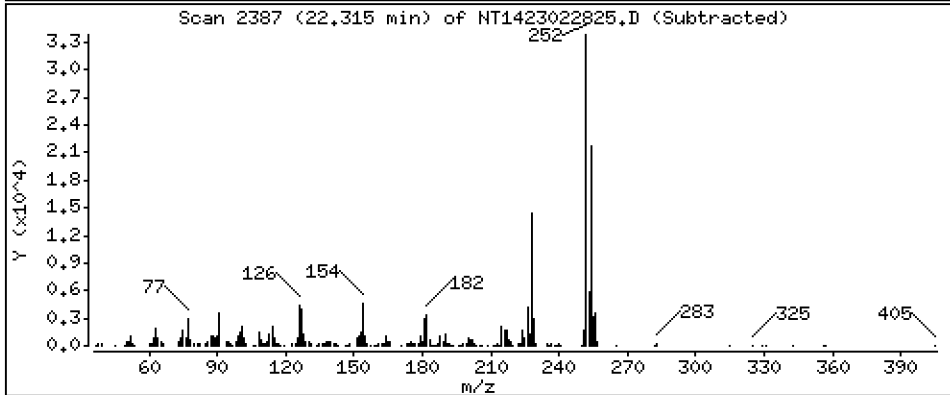
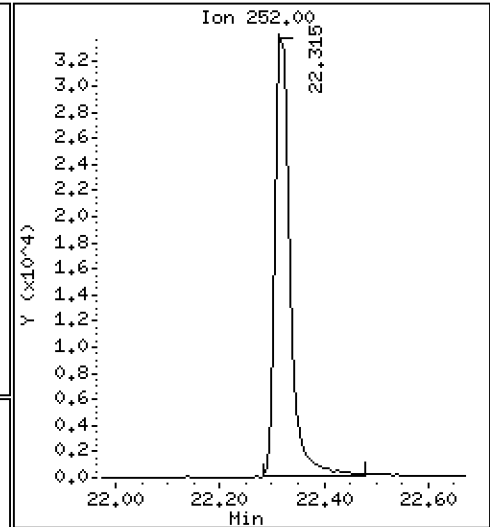
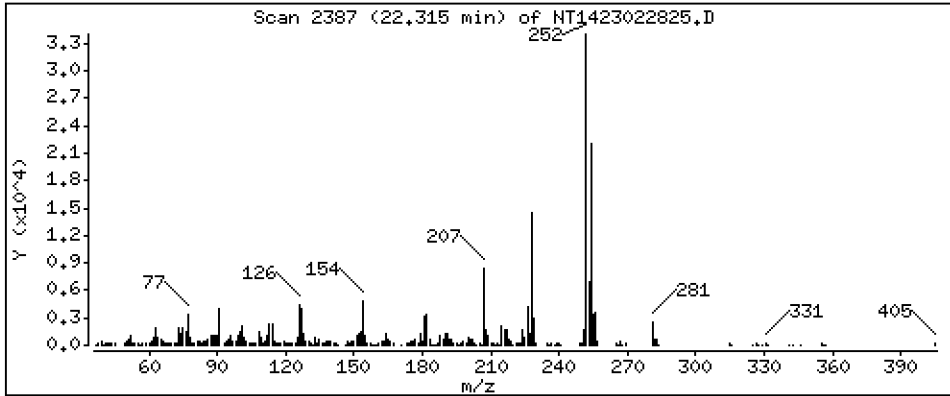
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 1,854 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

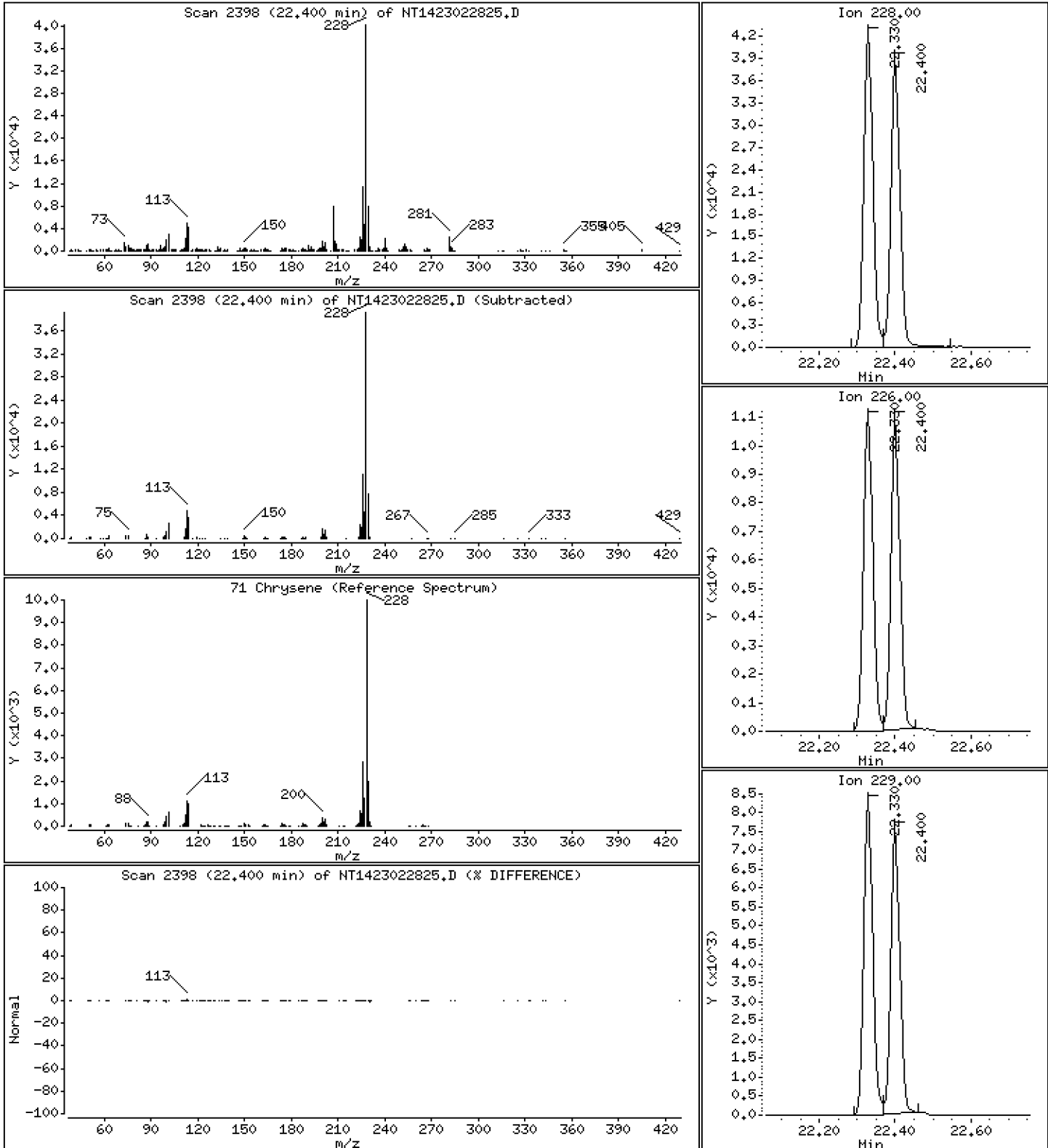
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,5326 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

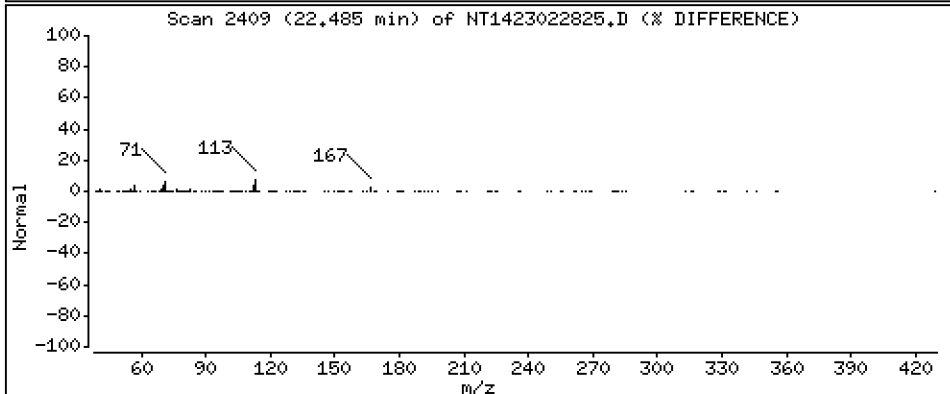
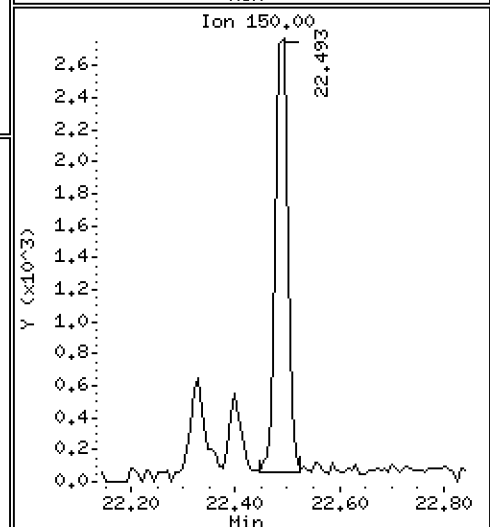
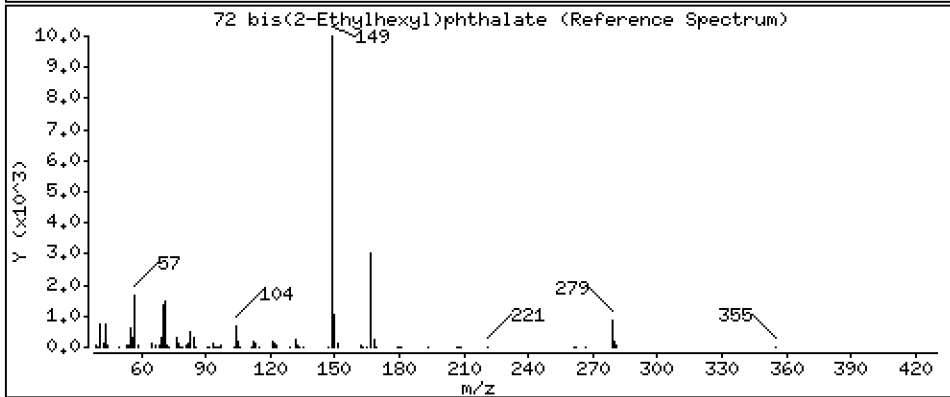
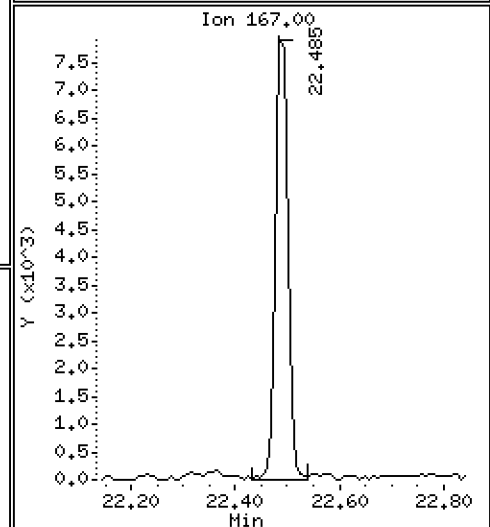
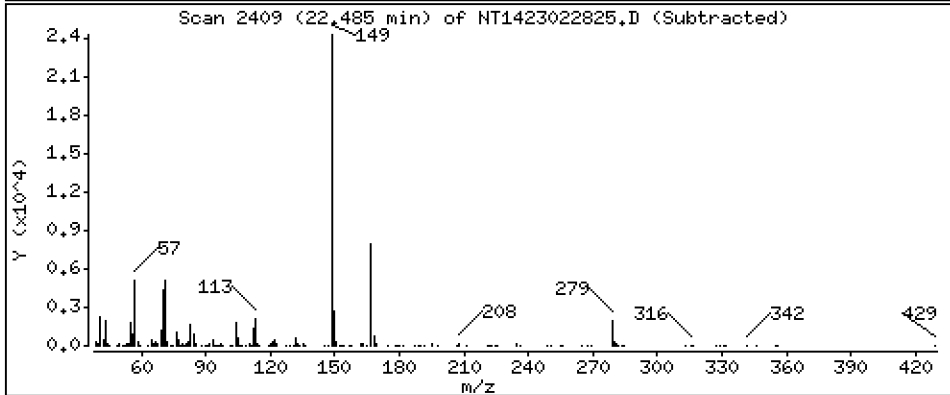
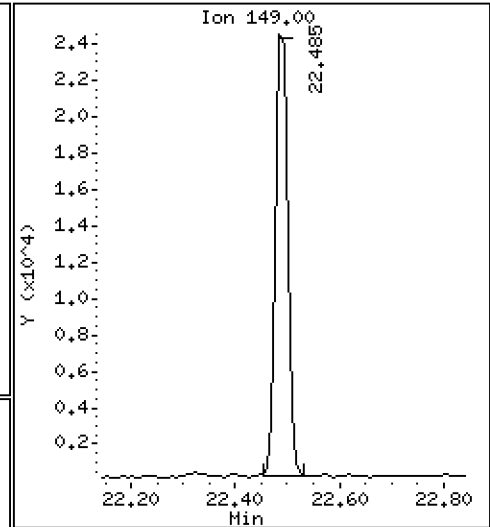
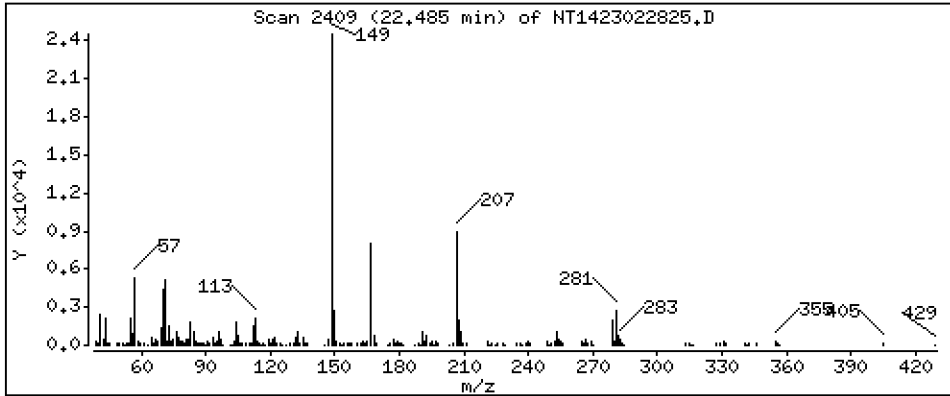
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,4540 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

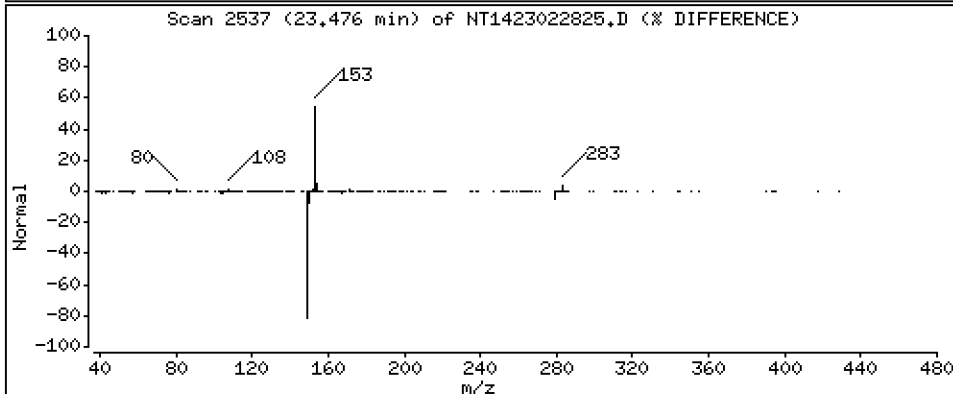
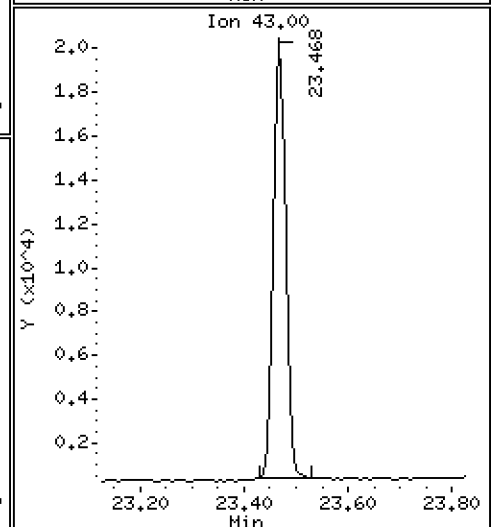
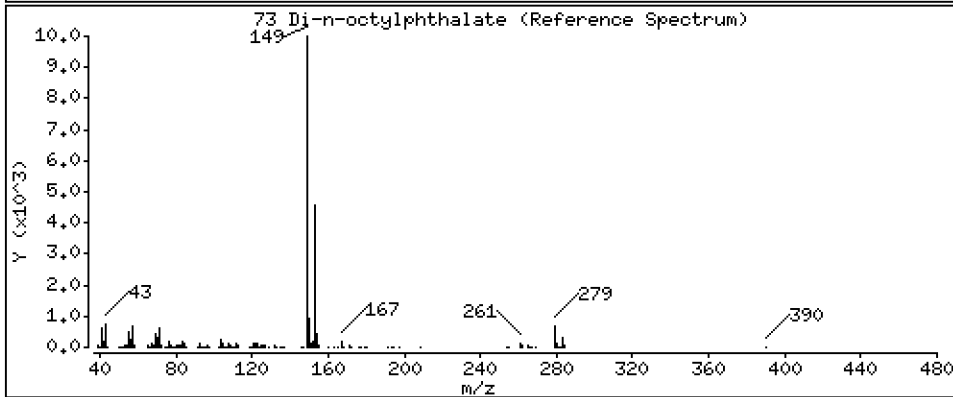
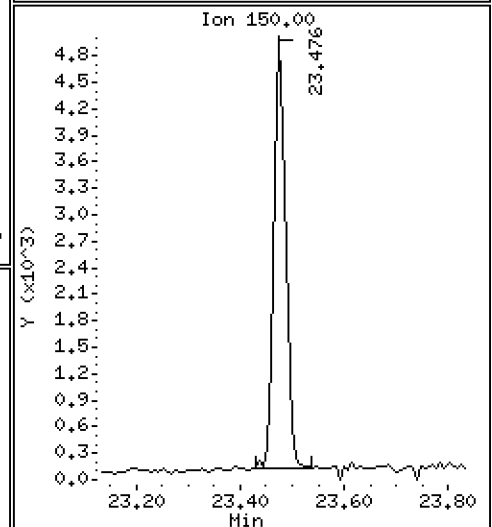
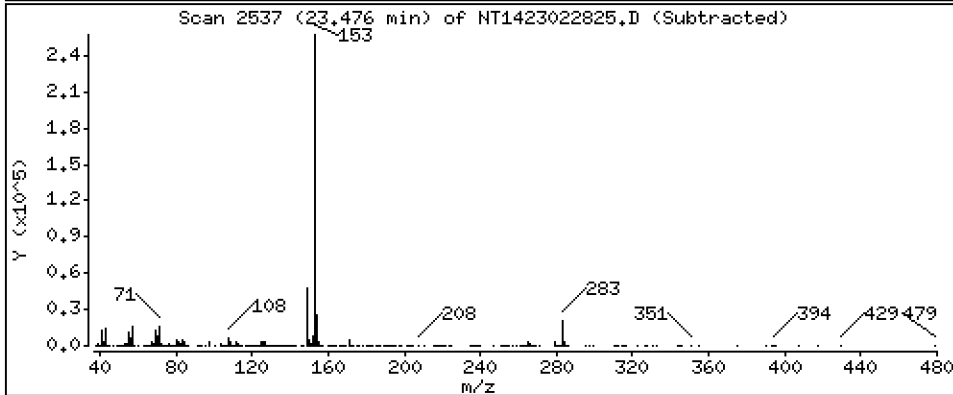
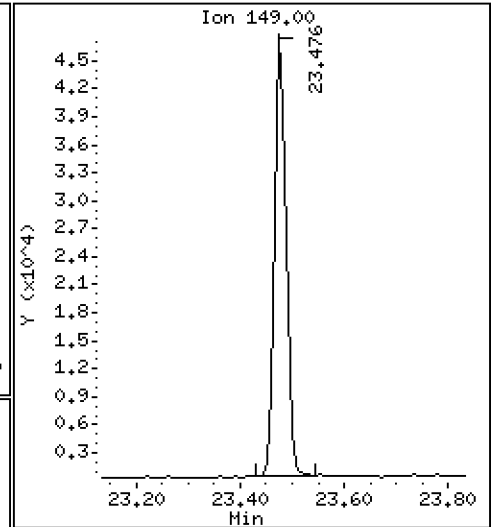
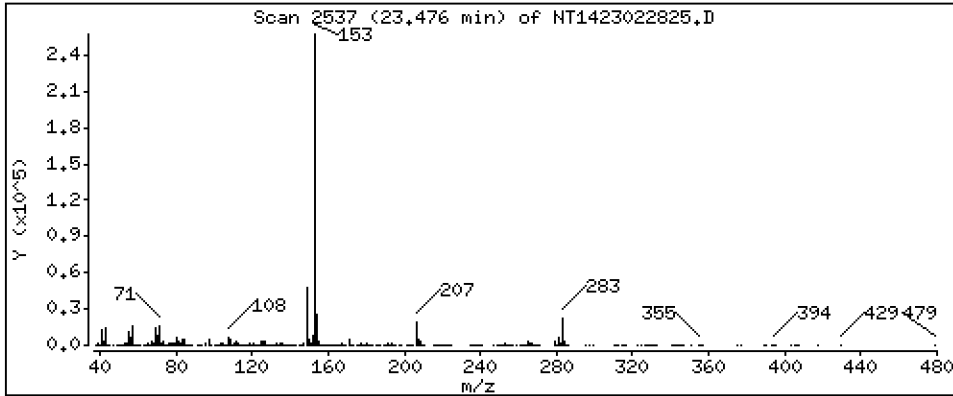
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,5004 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

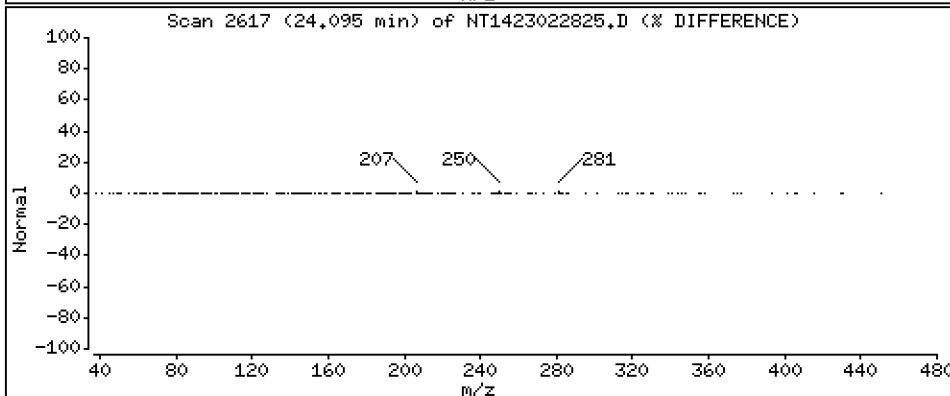
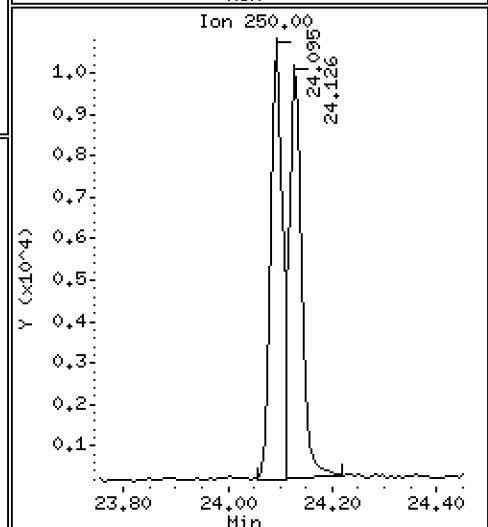
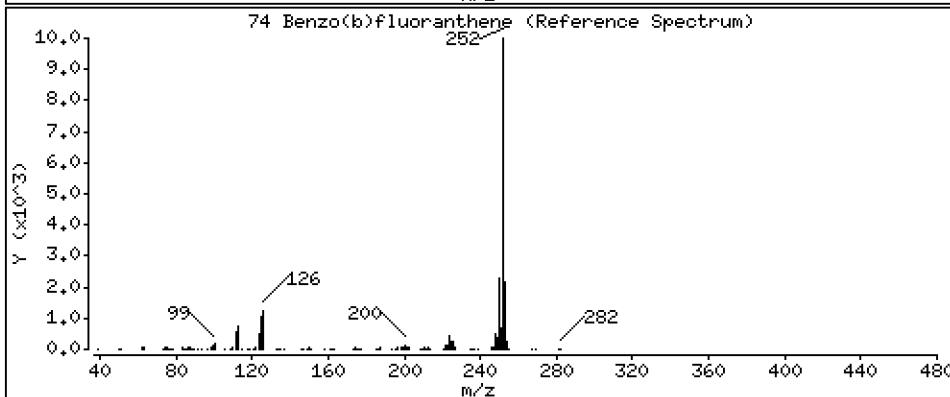
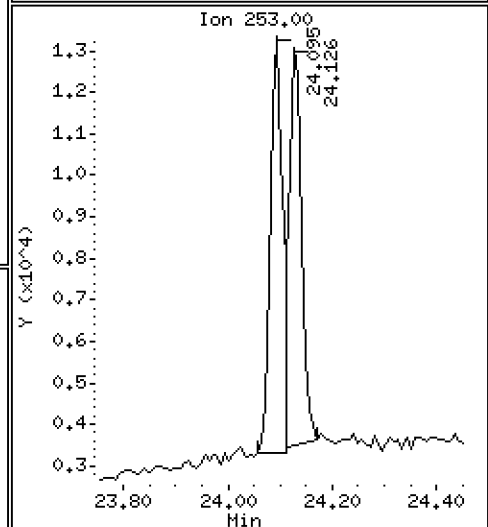
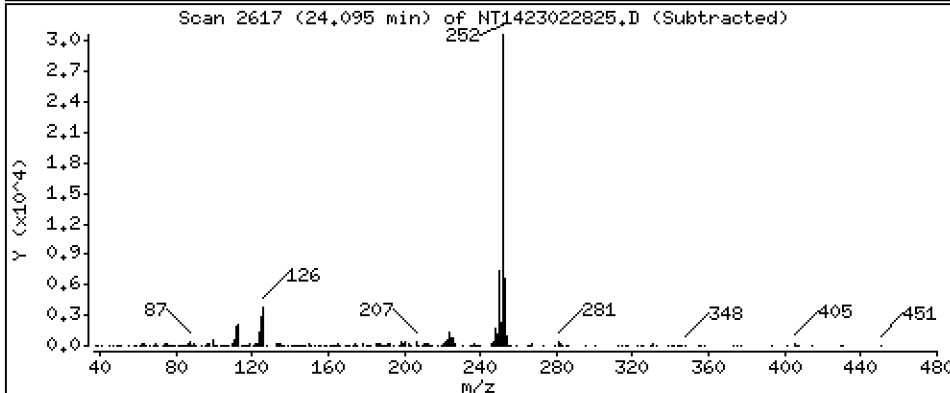
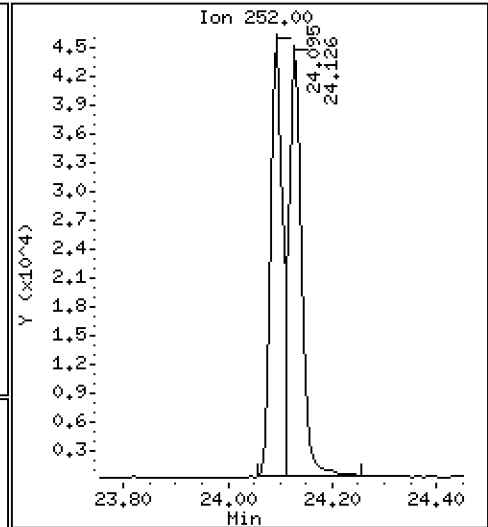
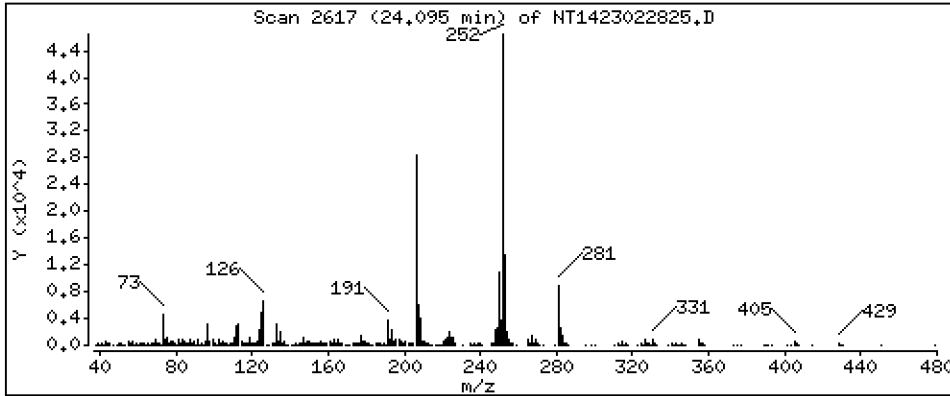
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,5153 ug/mL





Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

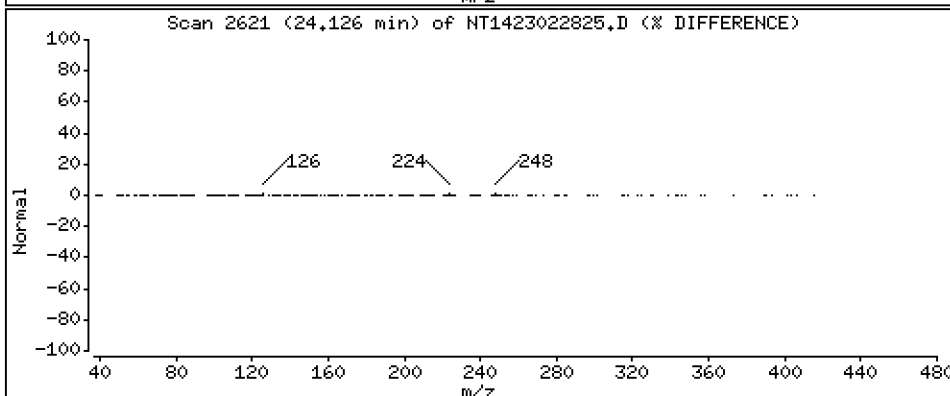
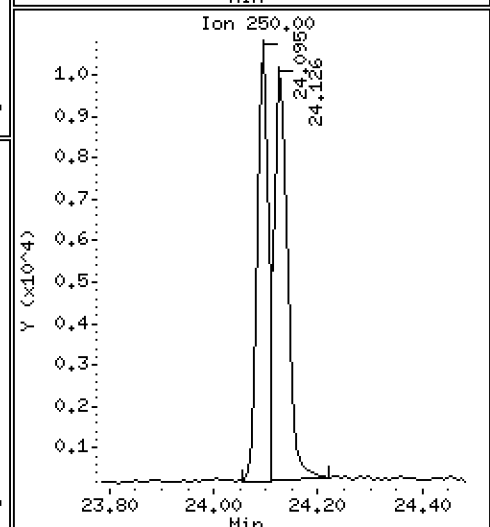
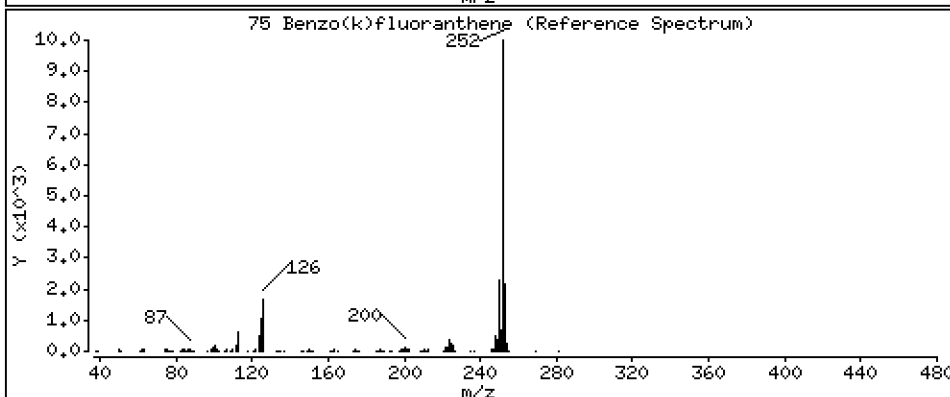
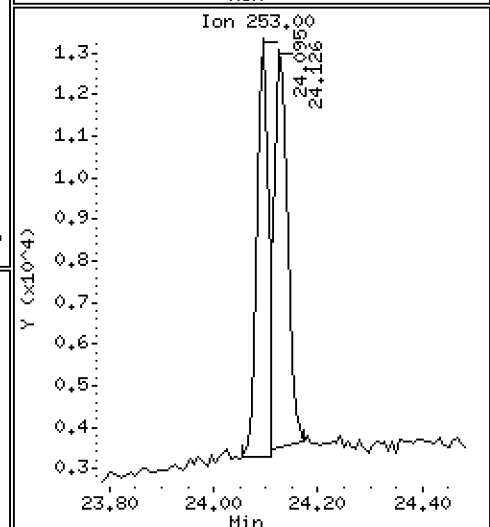
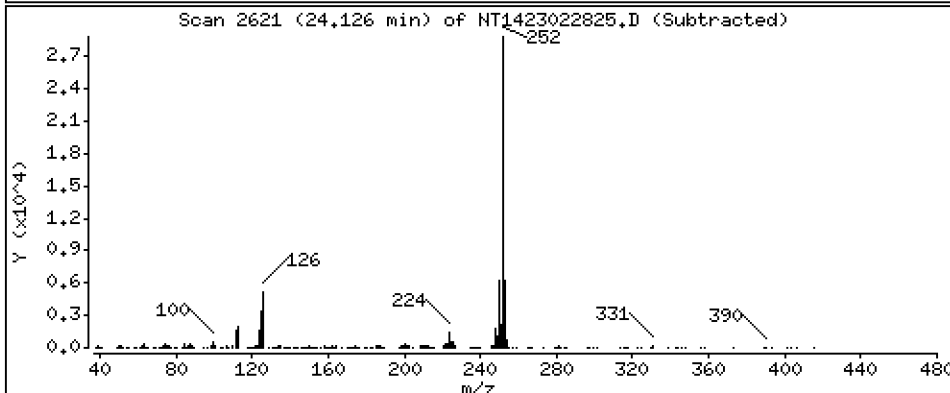
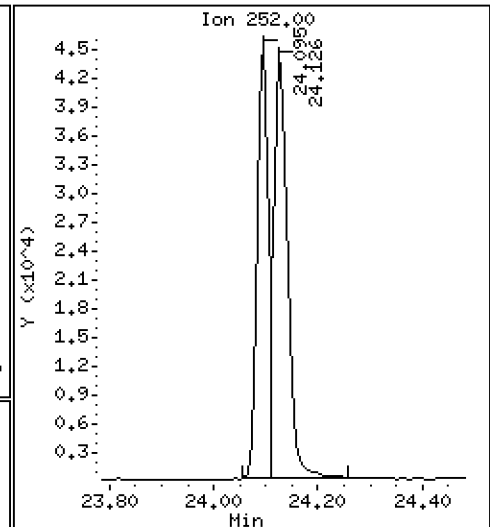
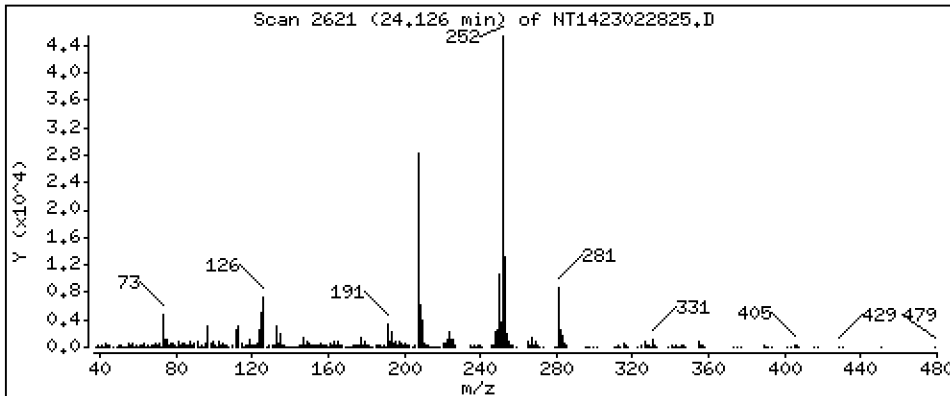
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,5325 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

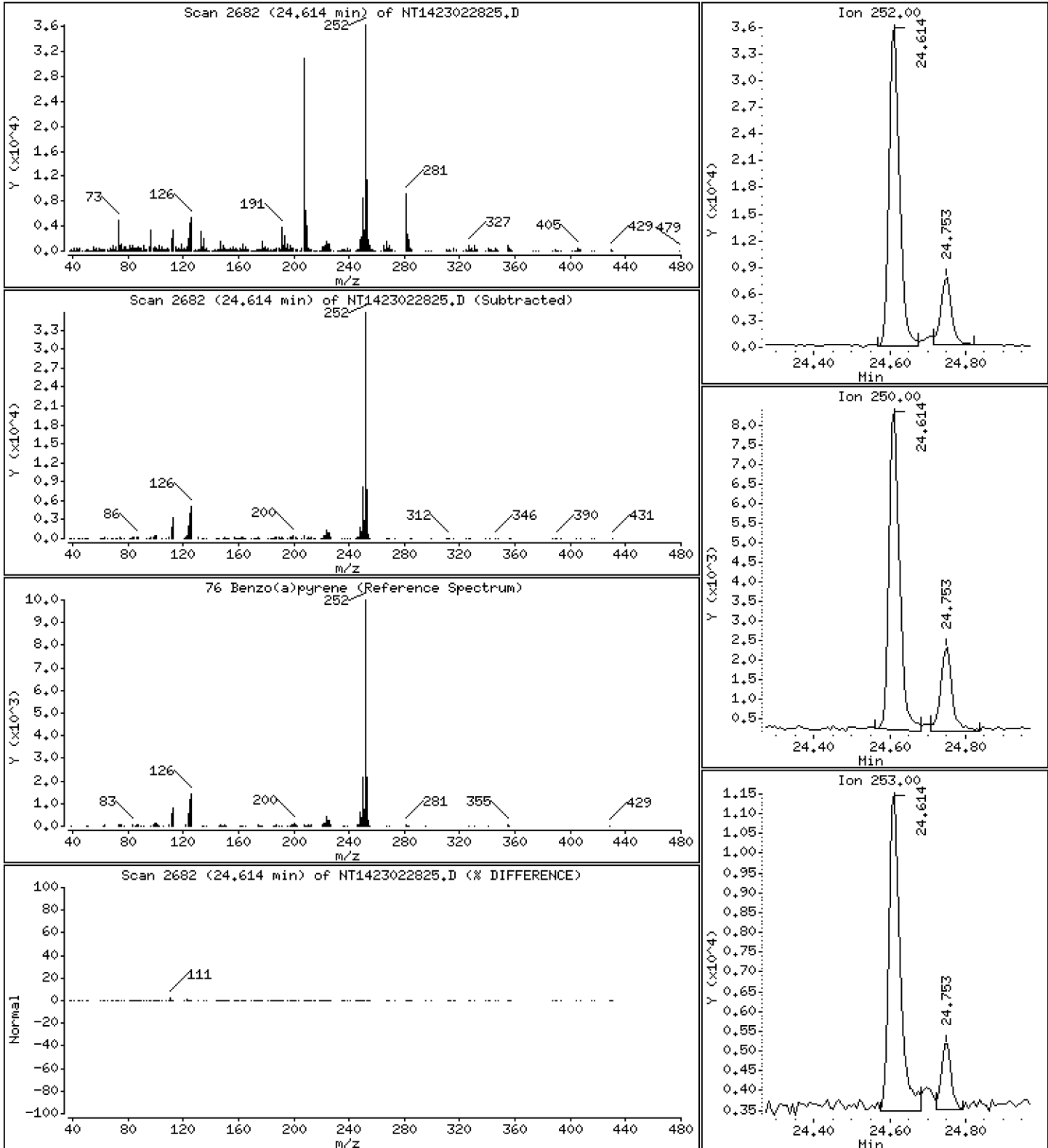
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,5470 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

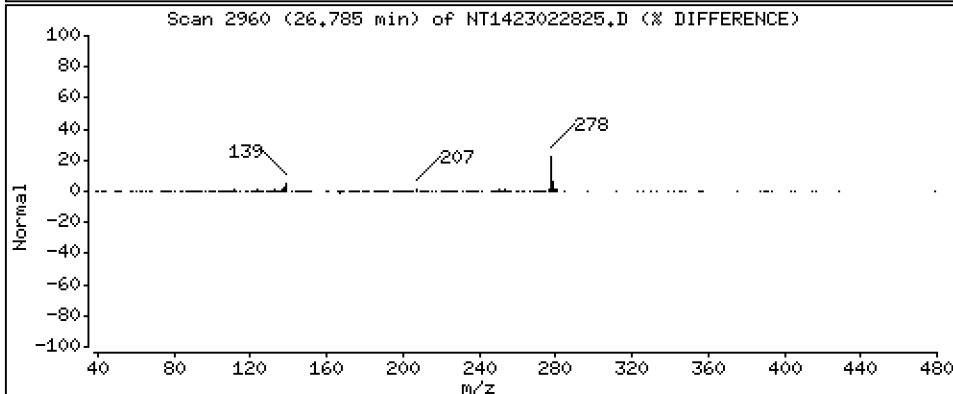
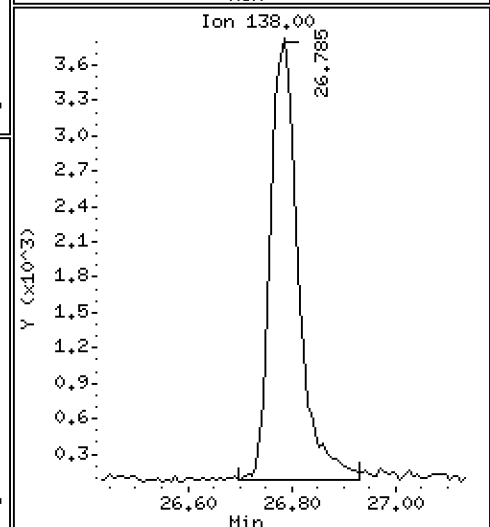
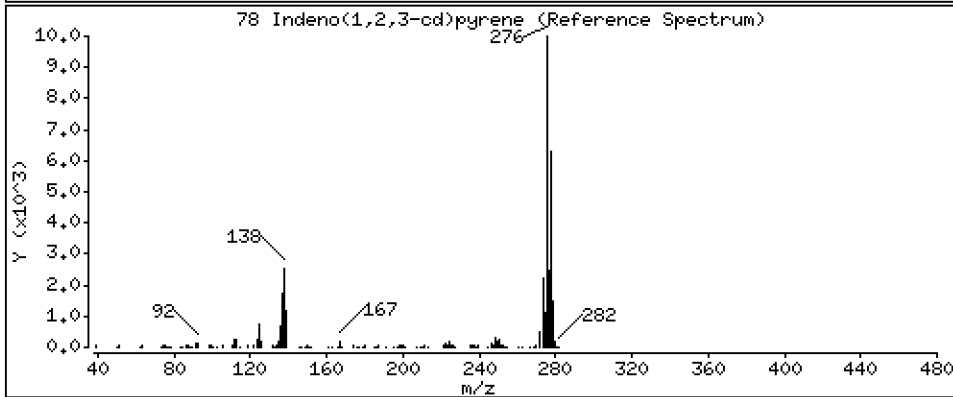
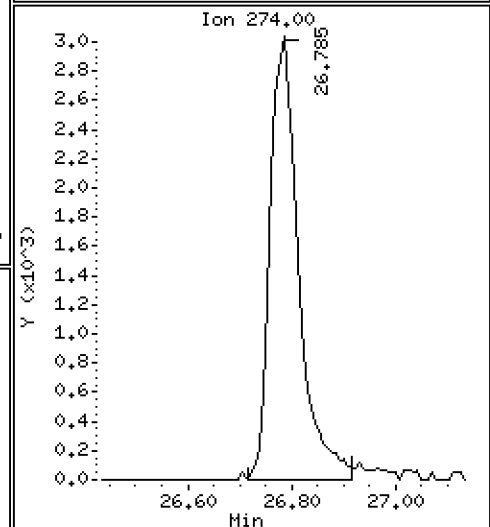
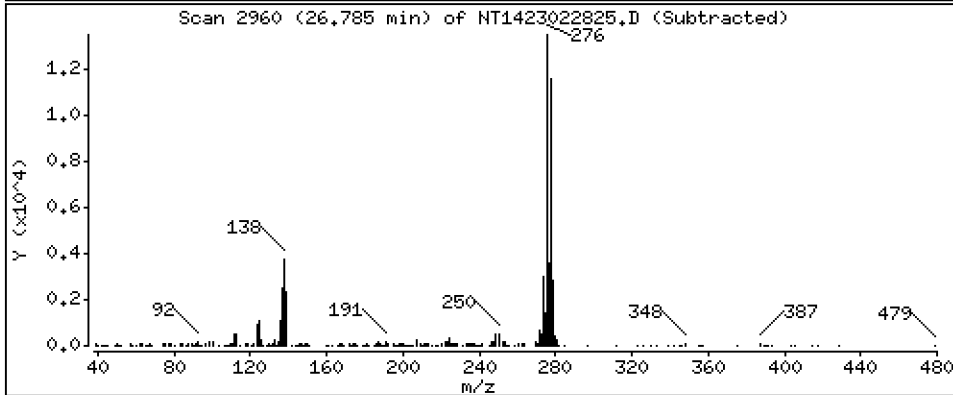
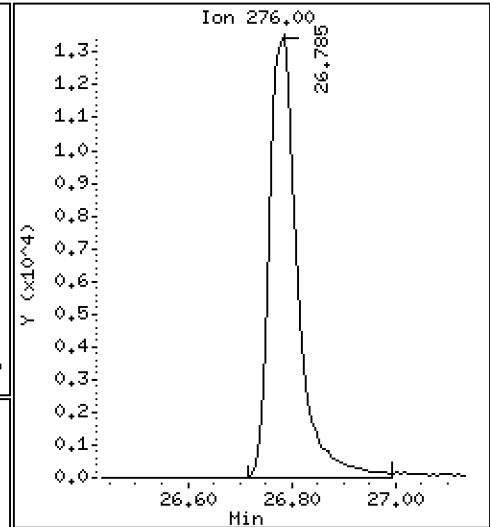
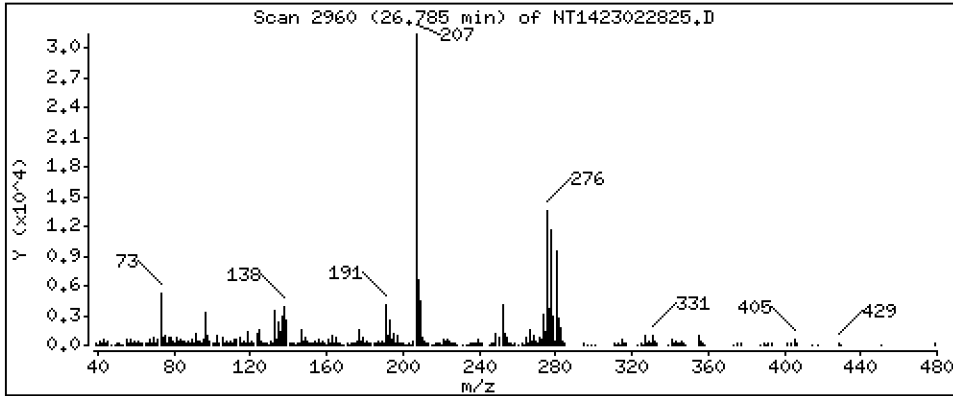
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,3258 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

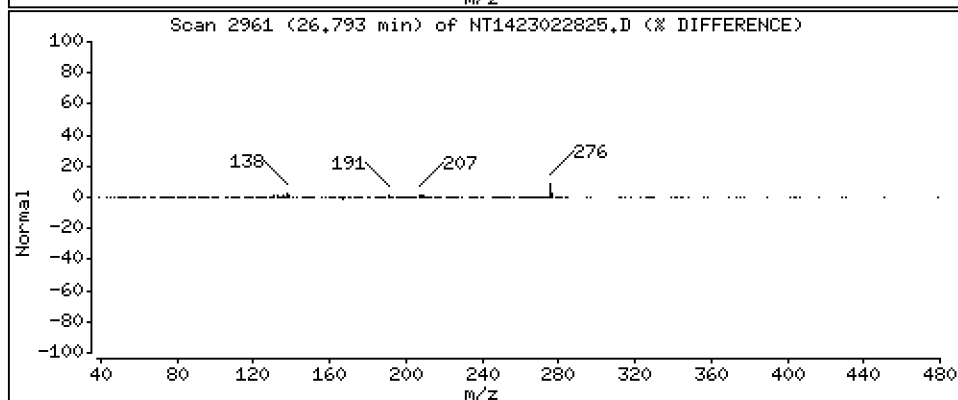
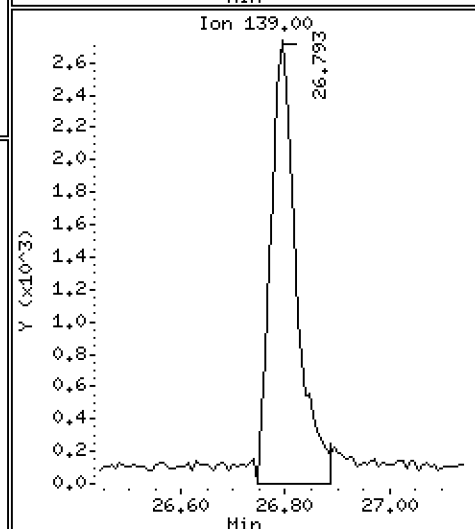
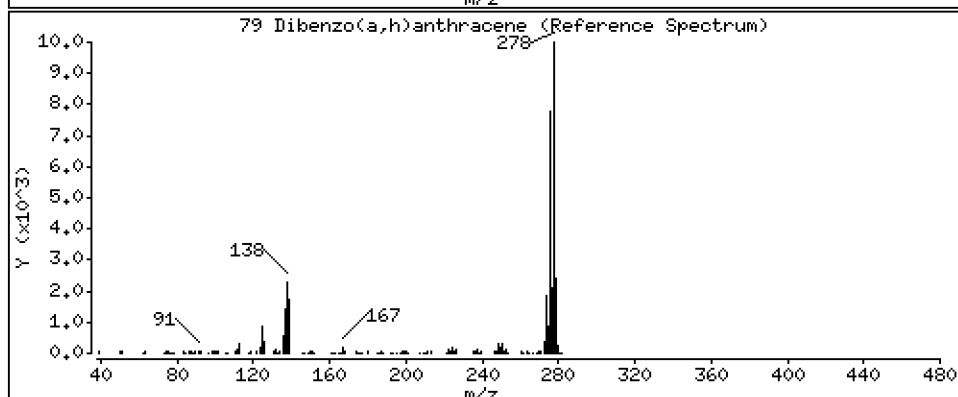
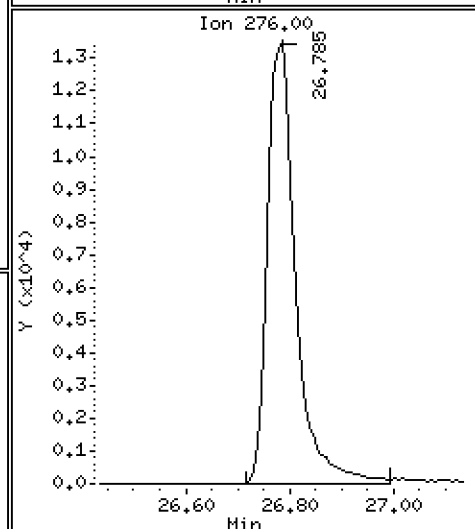
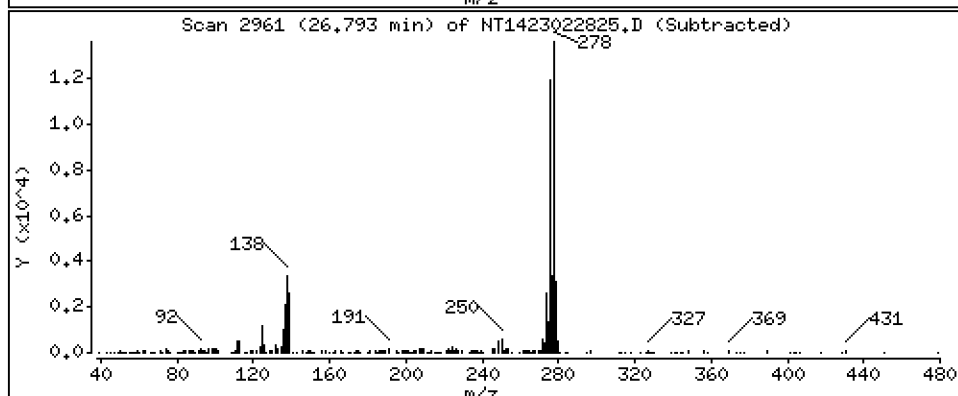
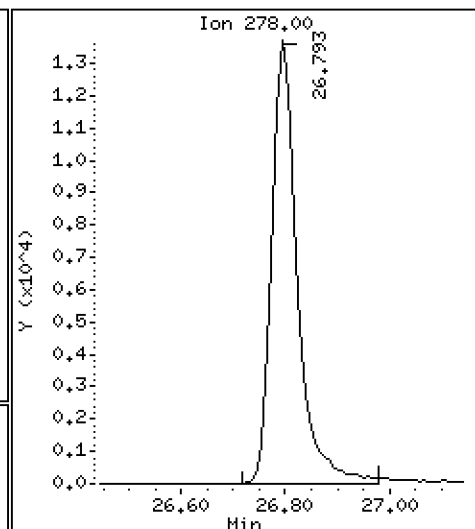
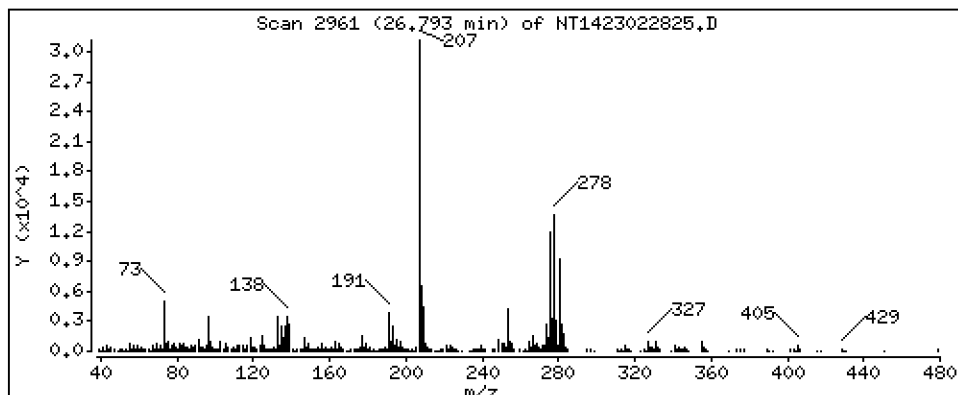
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,3534 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

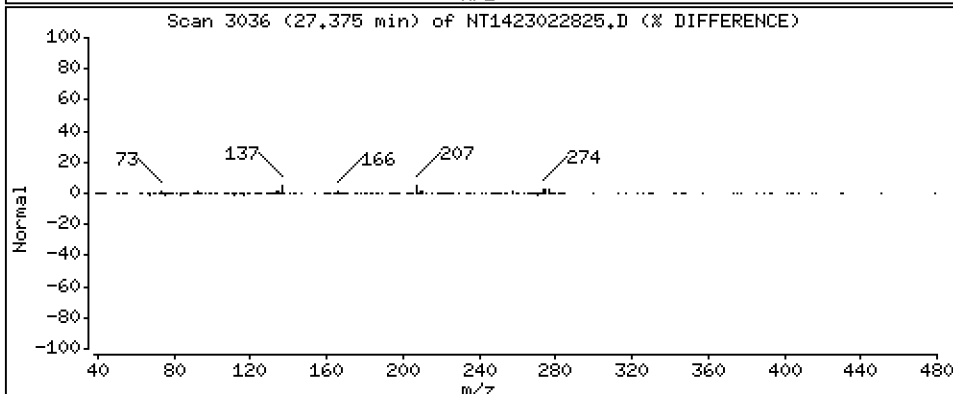
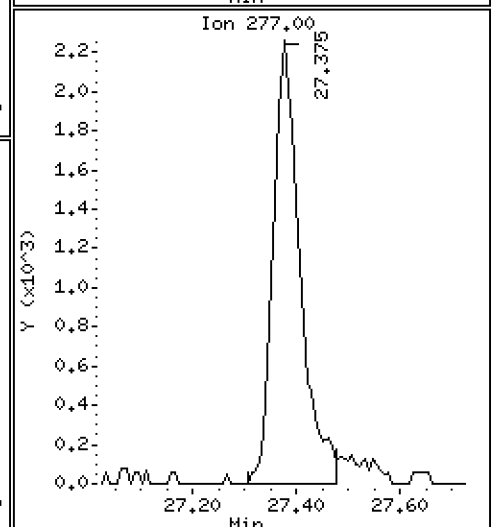
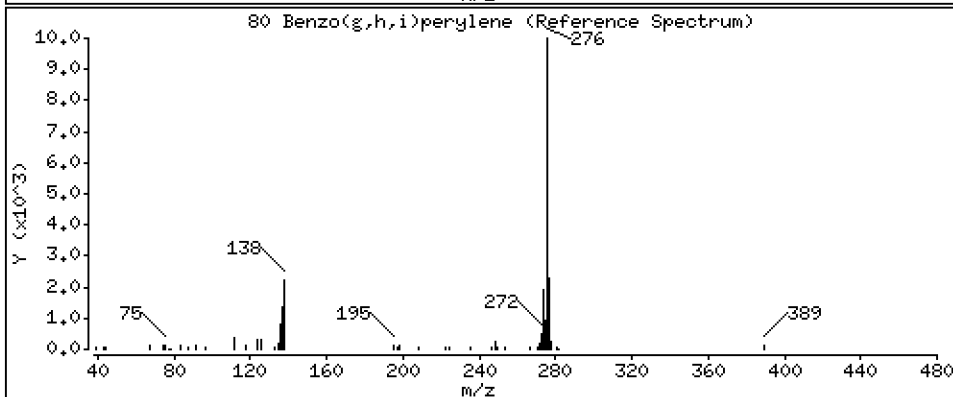
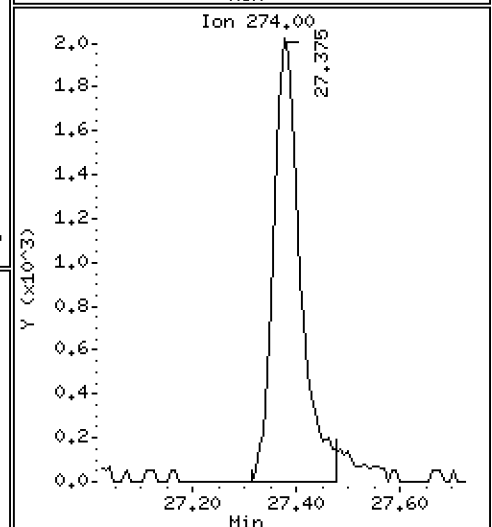
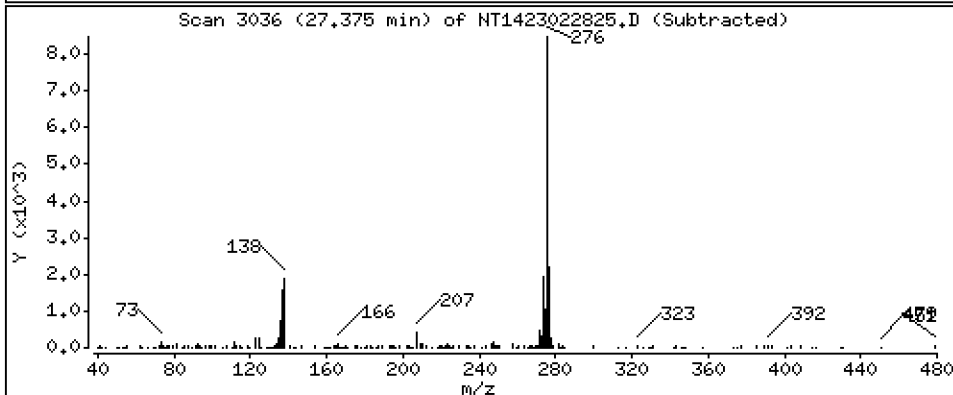
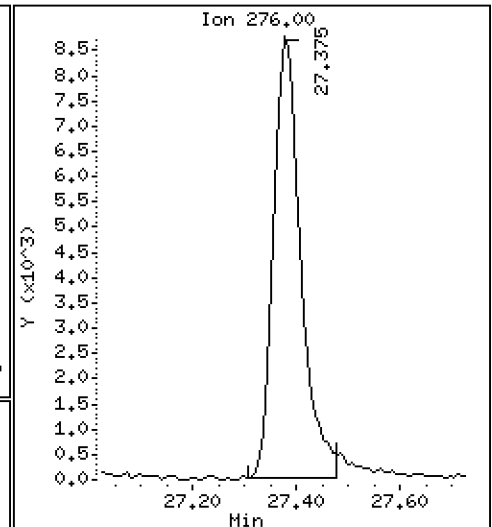
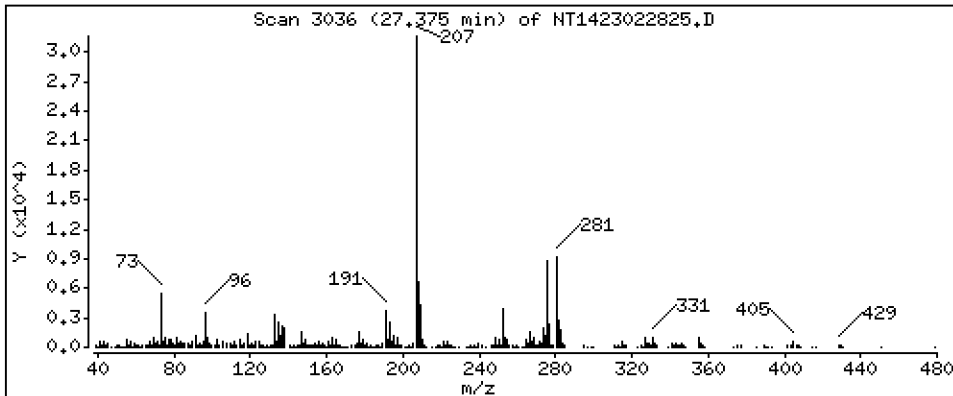
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,2332 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

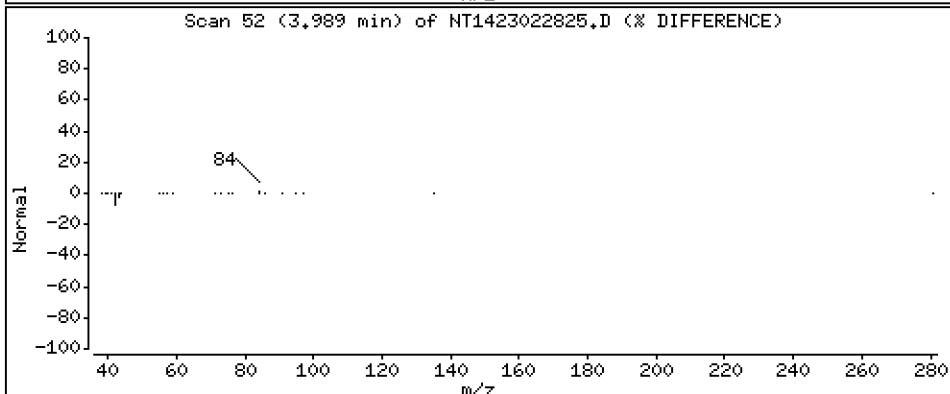
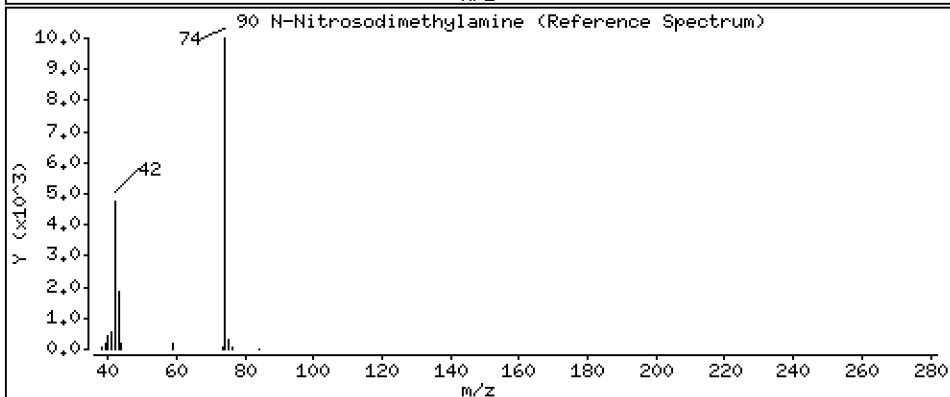
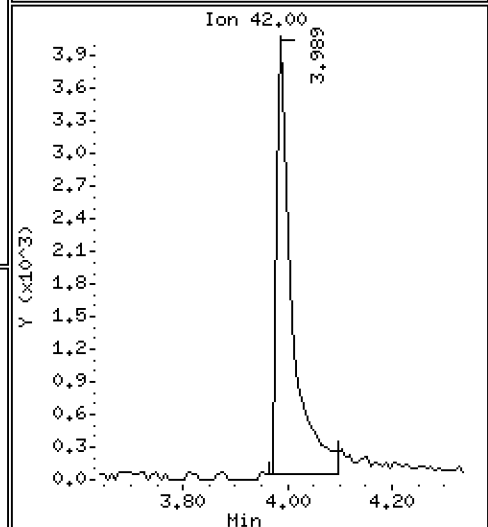
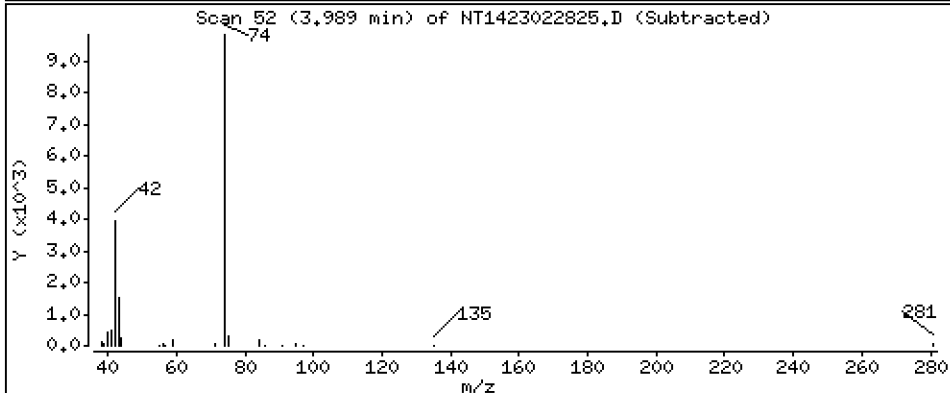
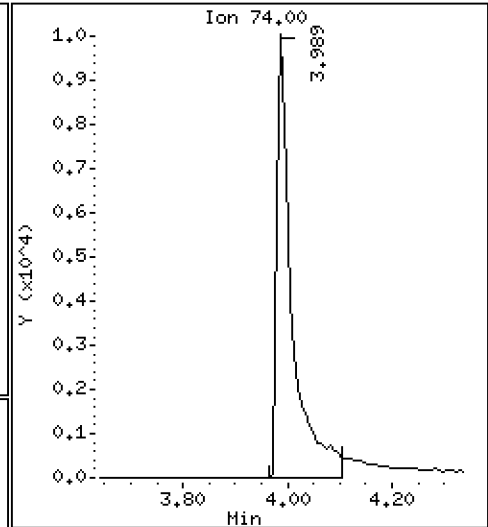
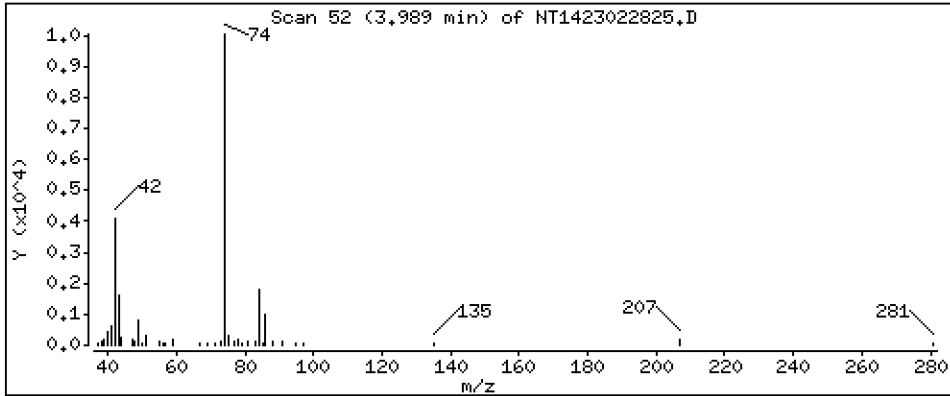
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,7333 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

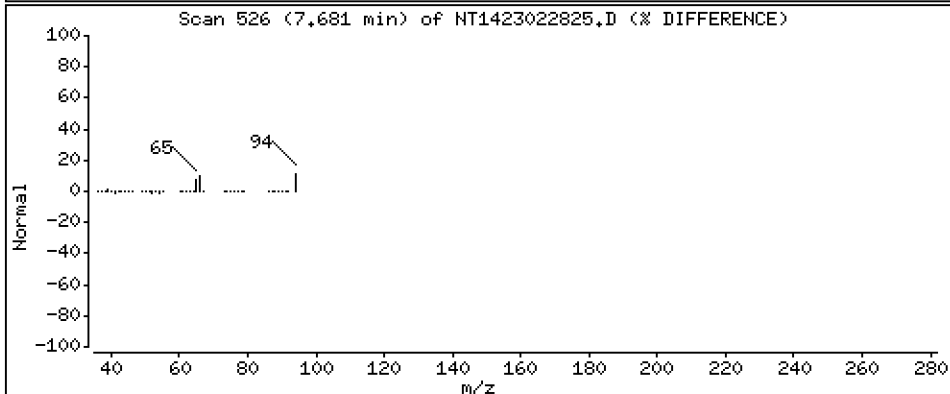
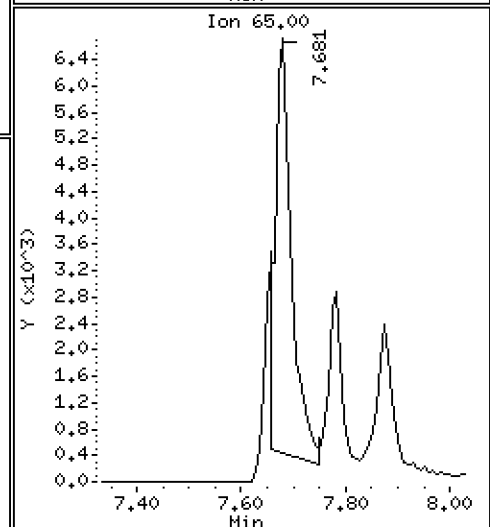
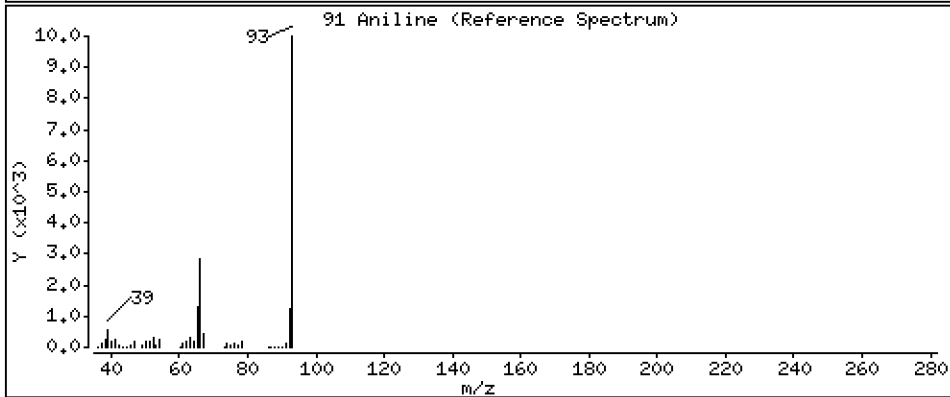
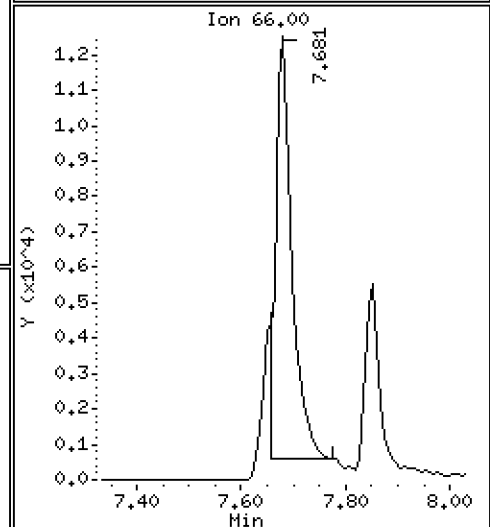
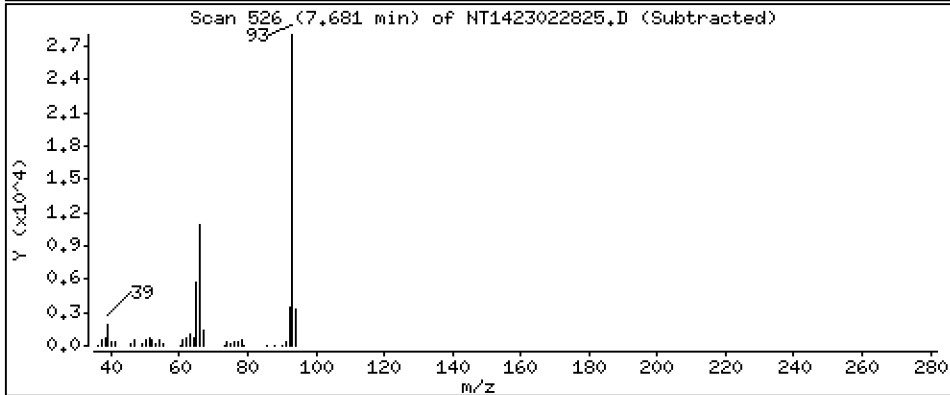
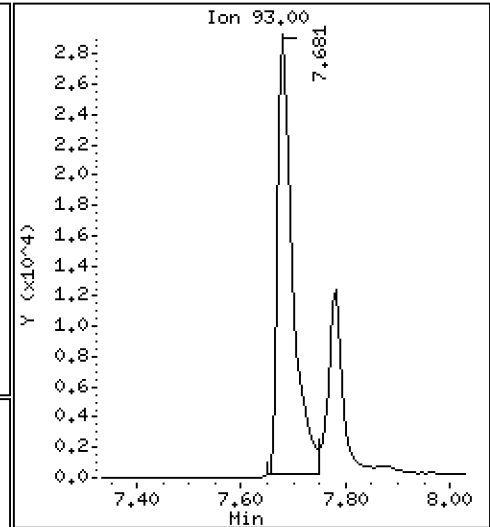
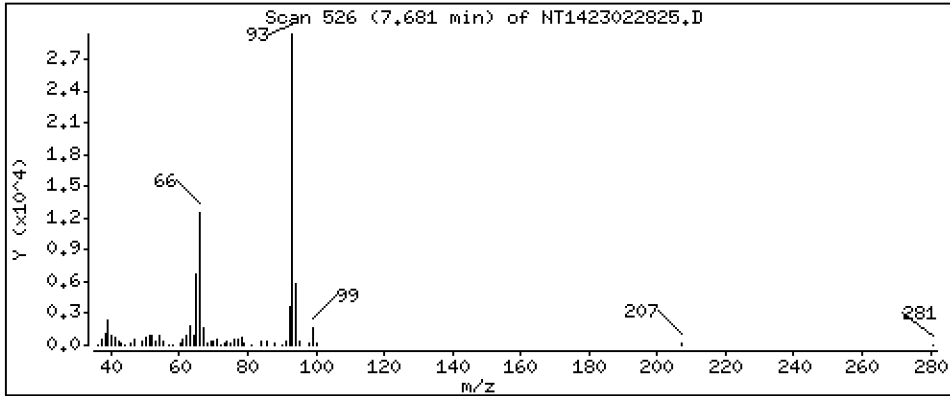
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.9034 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

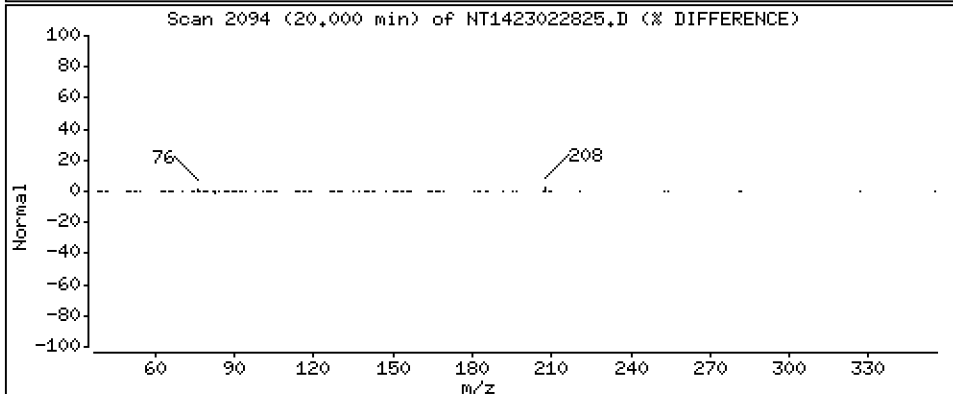
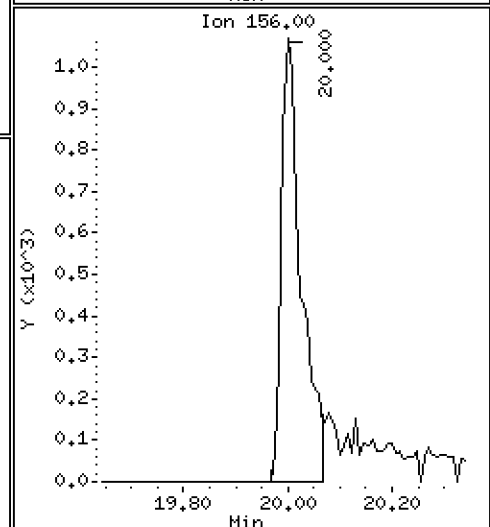
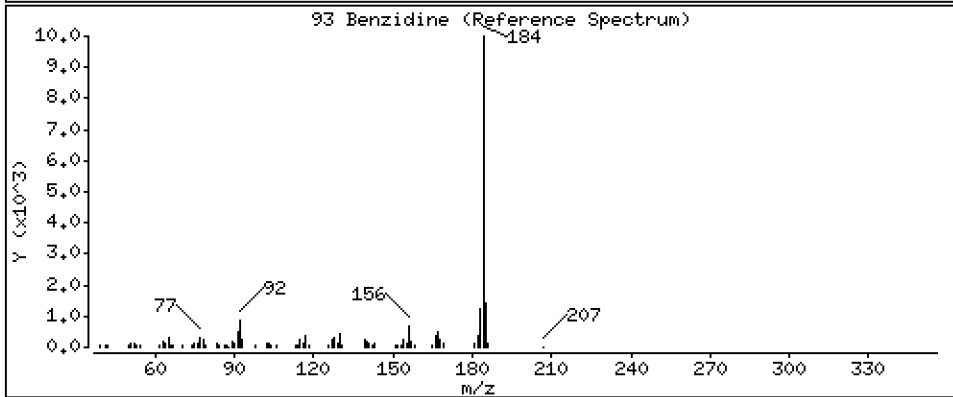
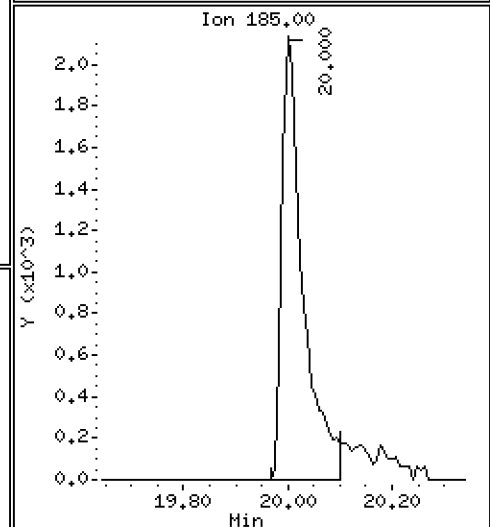
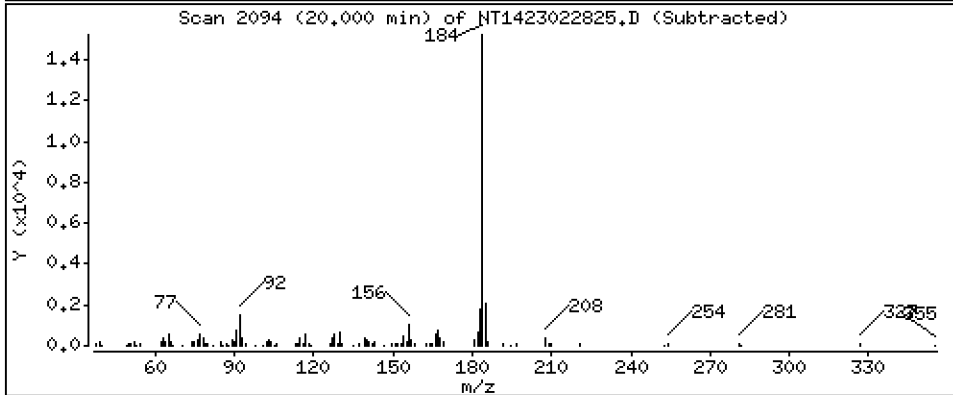
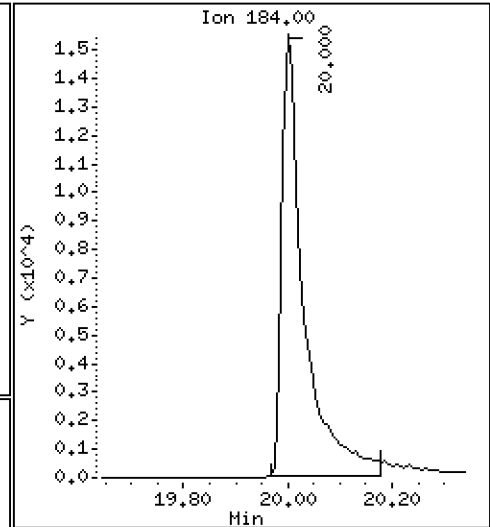
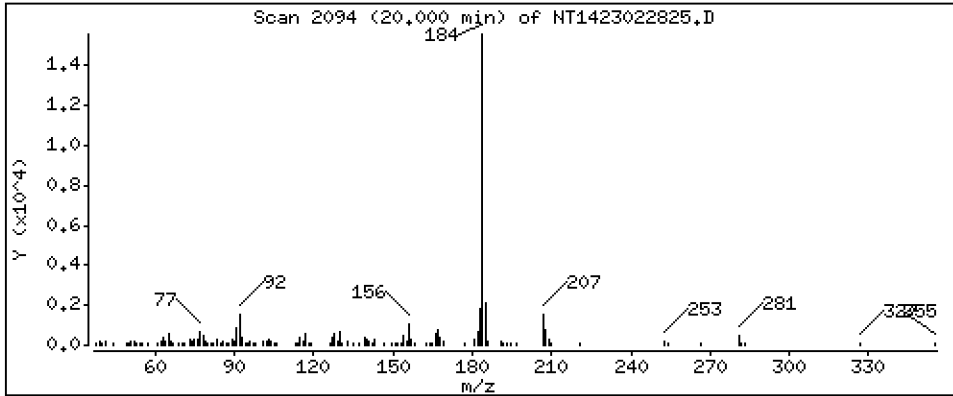
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,7531 ug/mL





Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

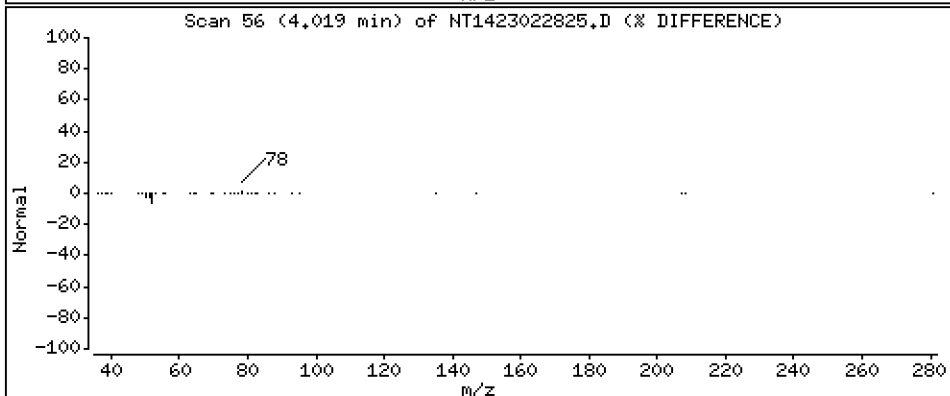
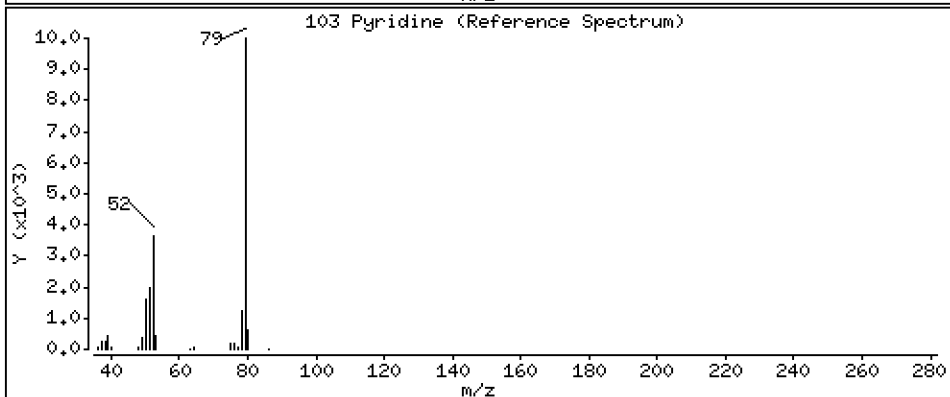
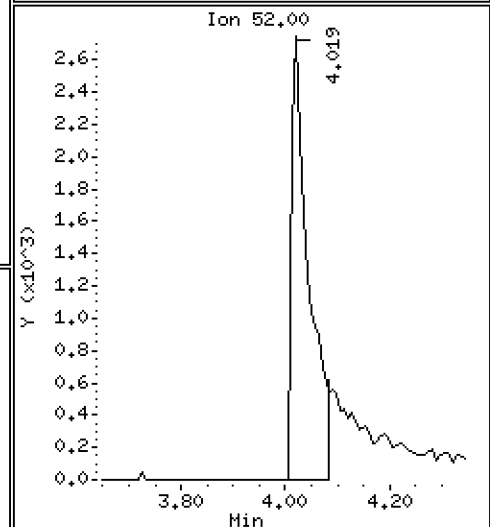
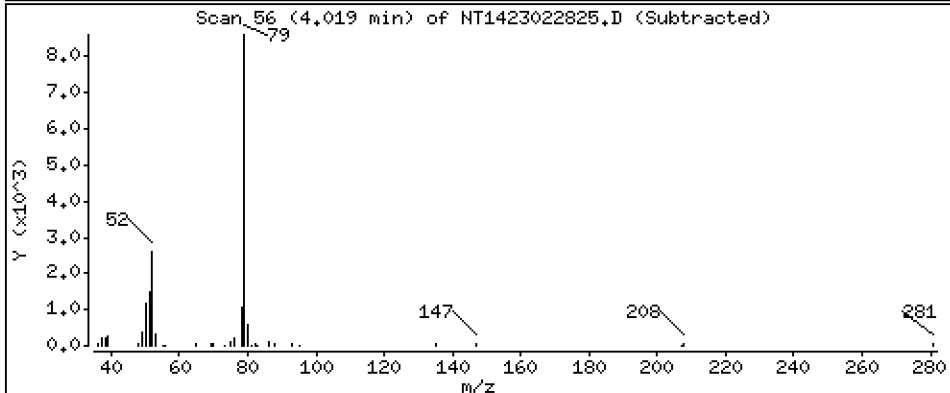
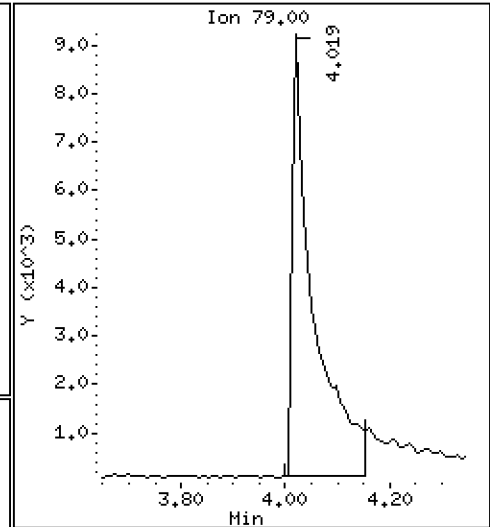
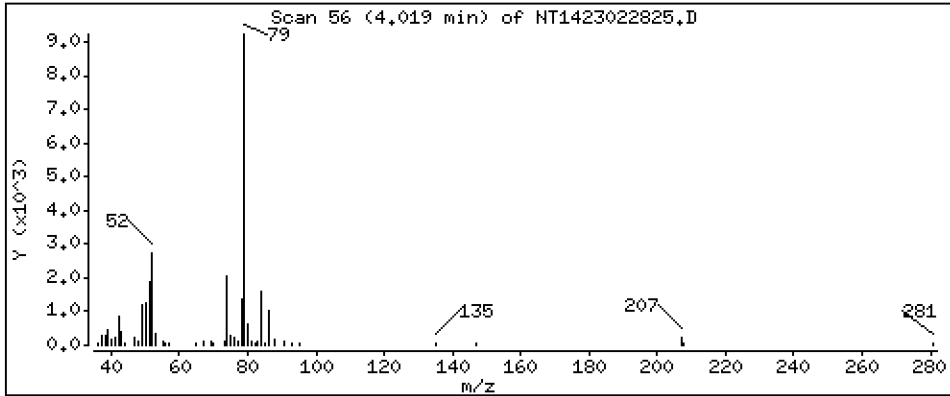
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,3342 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

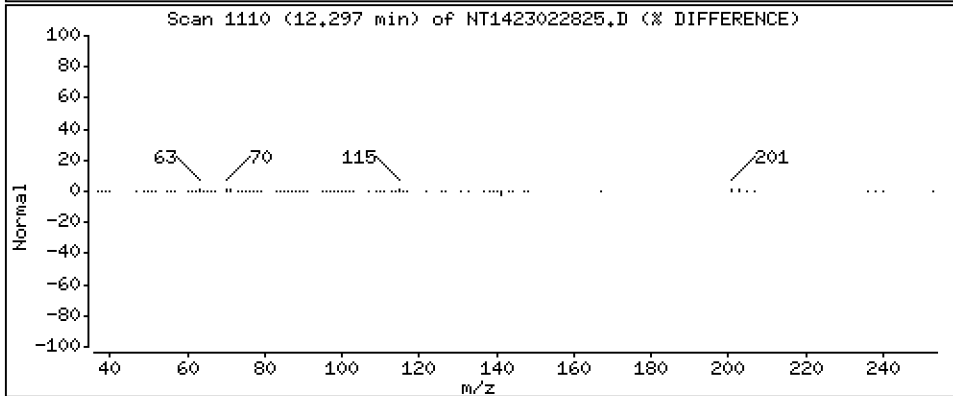
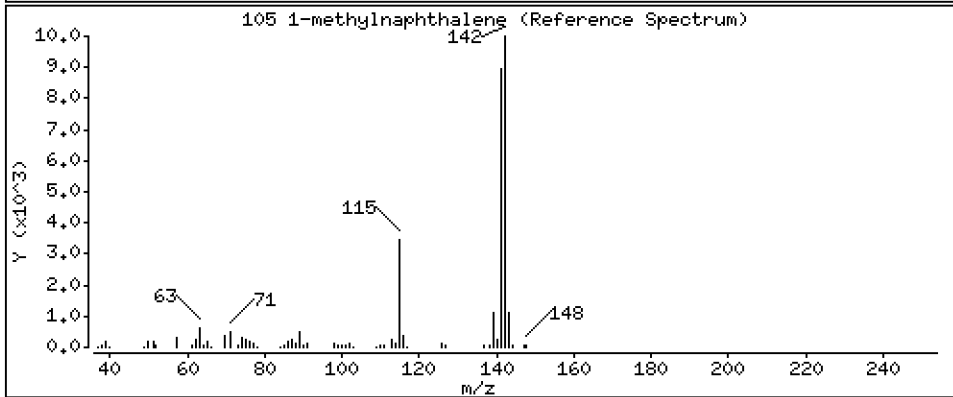
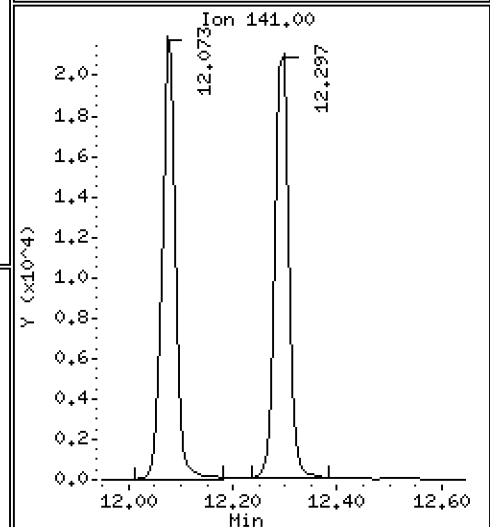
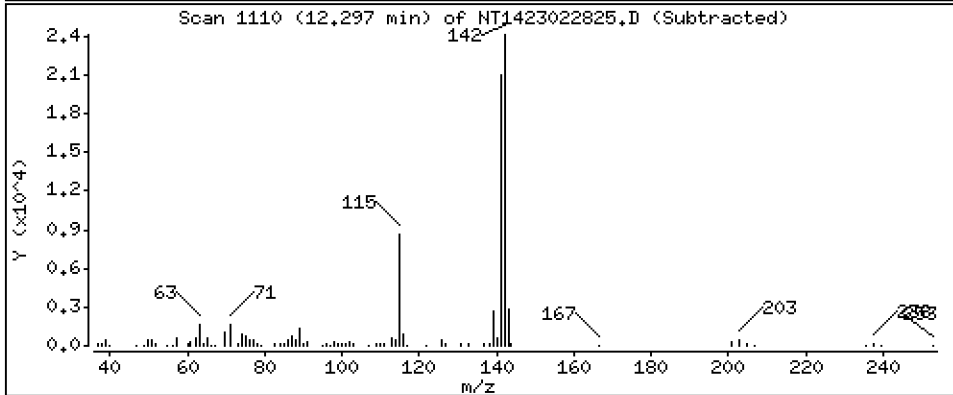
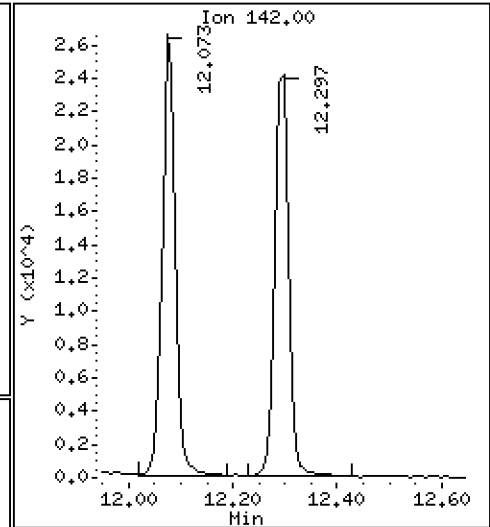
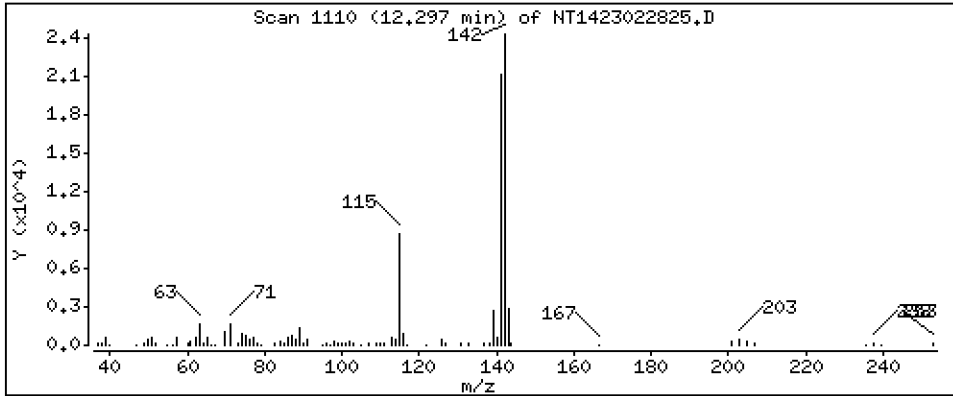
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,5112 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

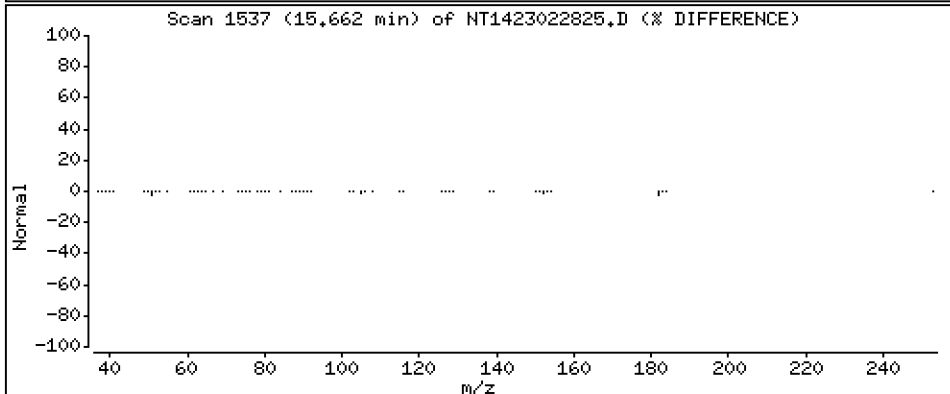
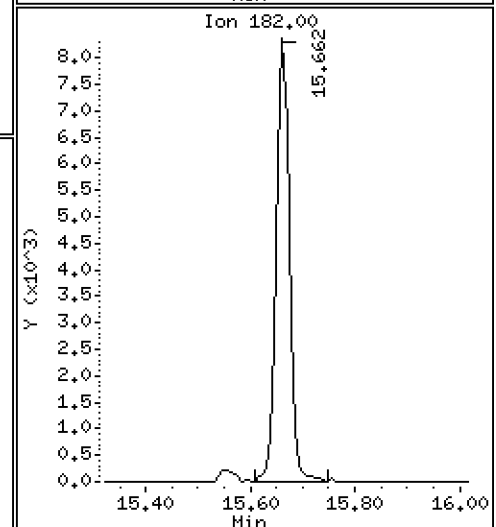
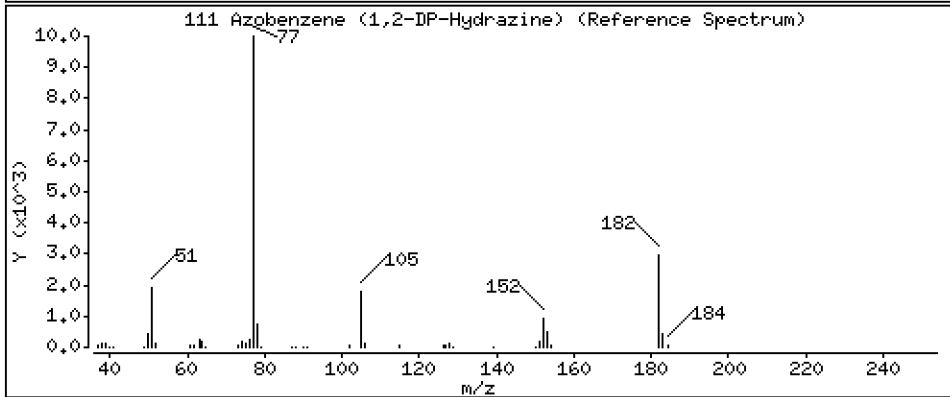
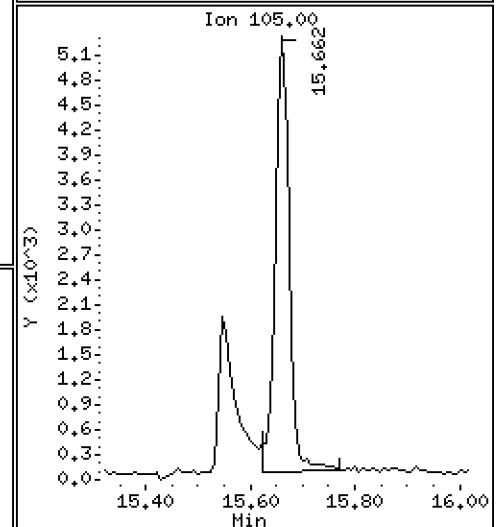
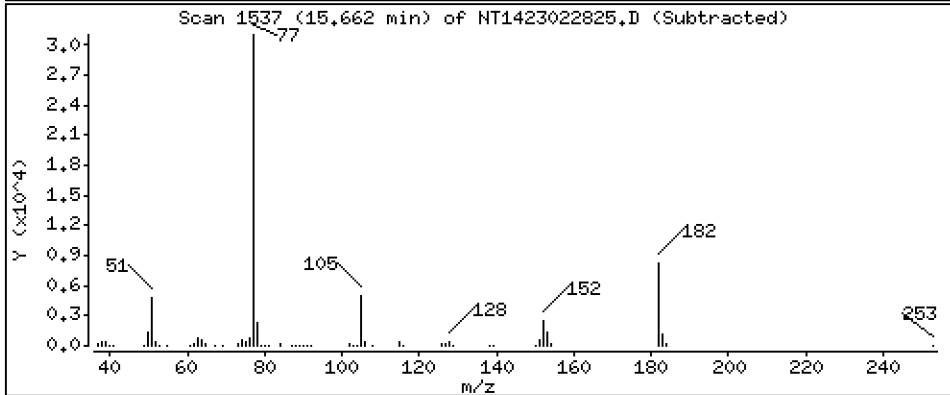
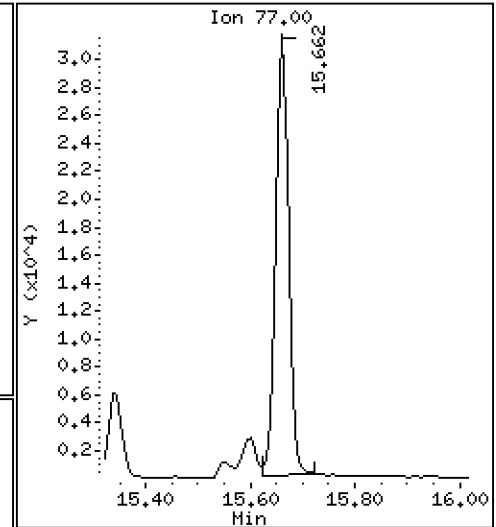
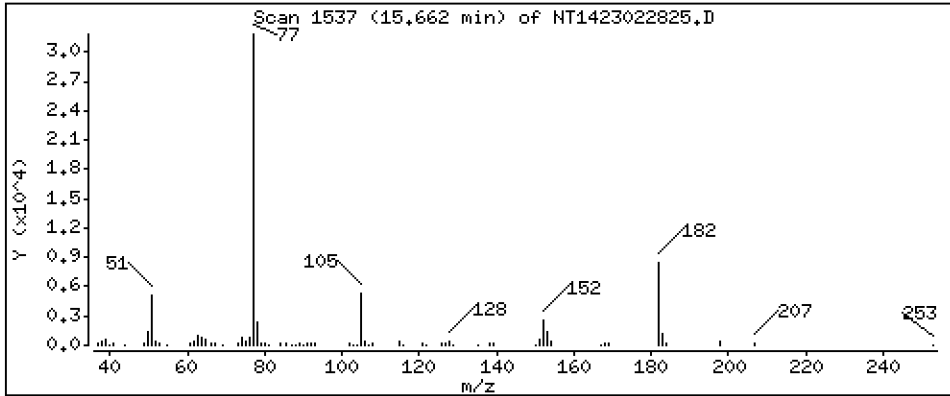
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,5712 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

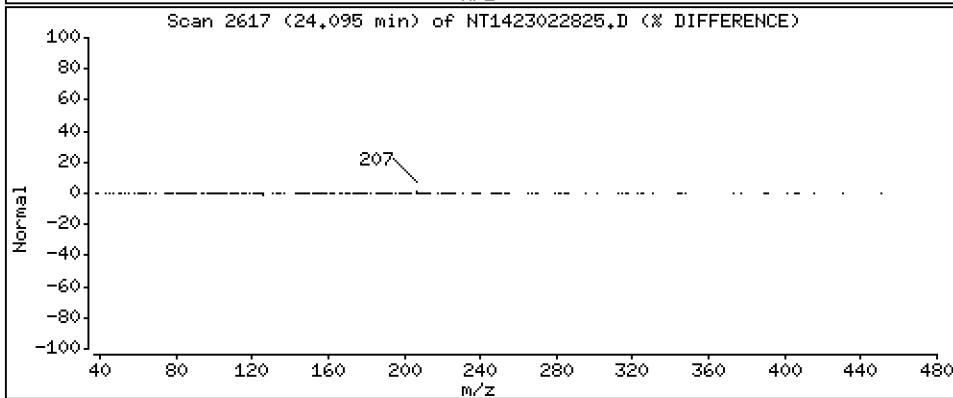
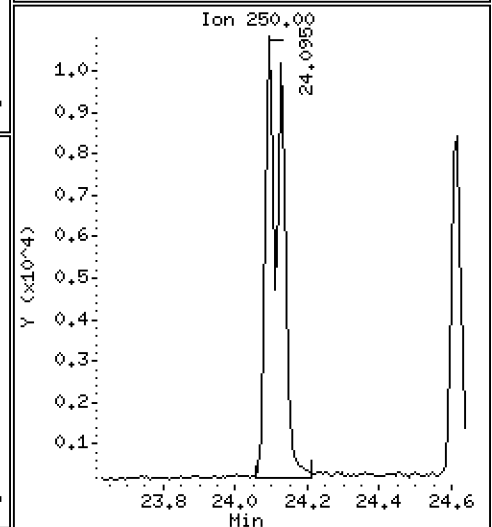
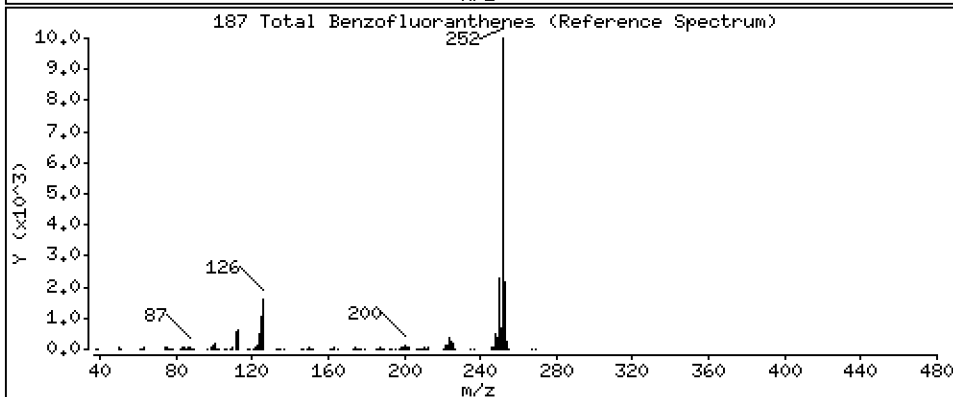
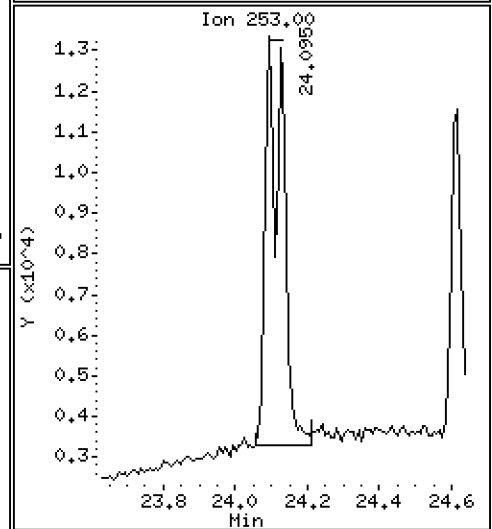
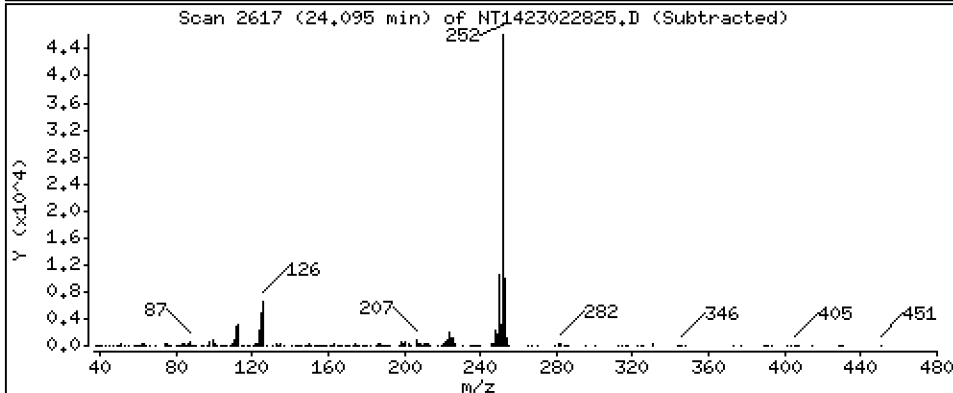
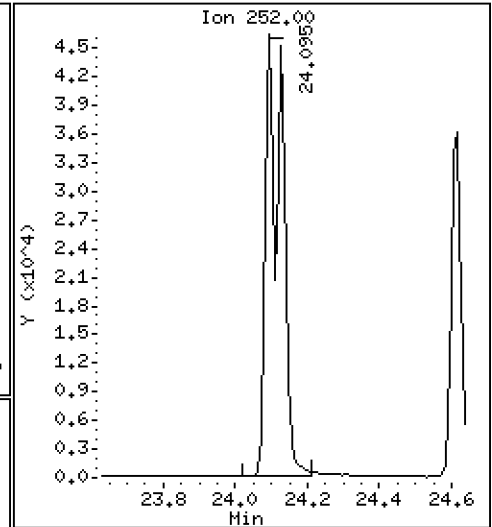
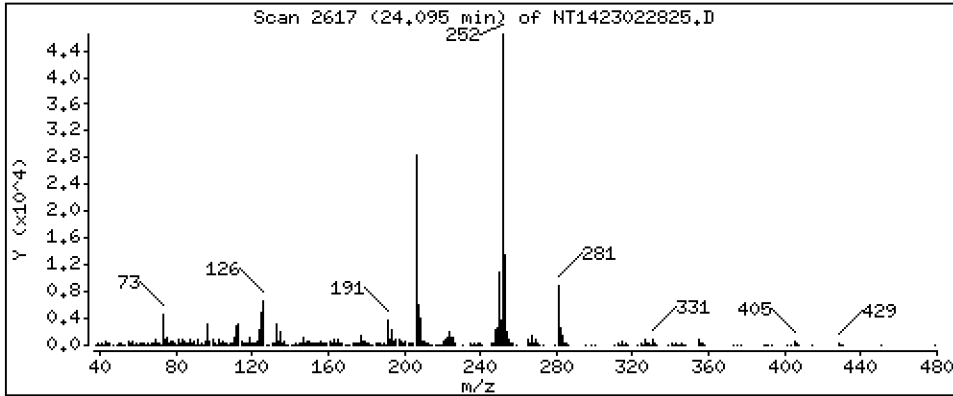
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,055 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

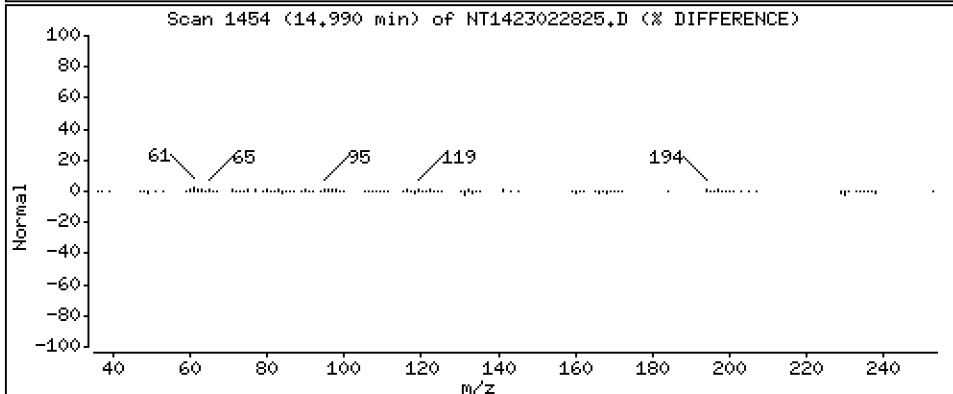
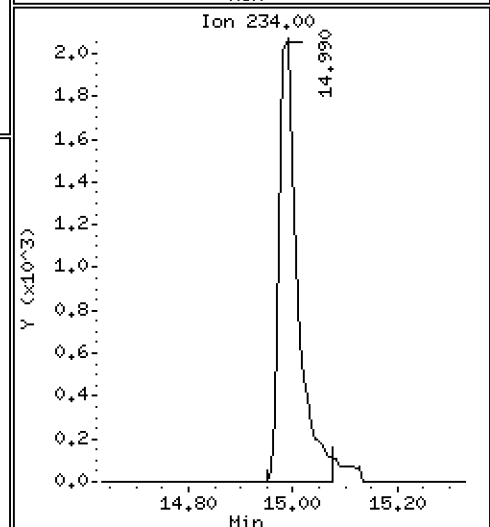
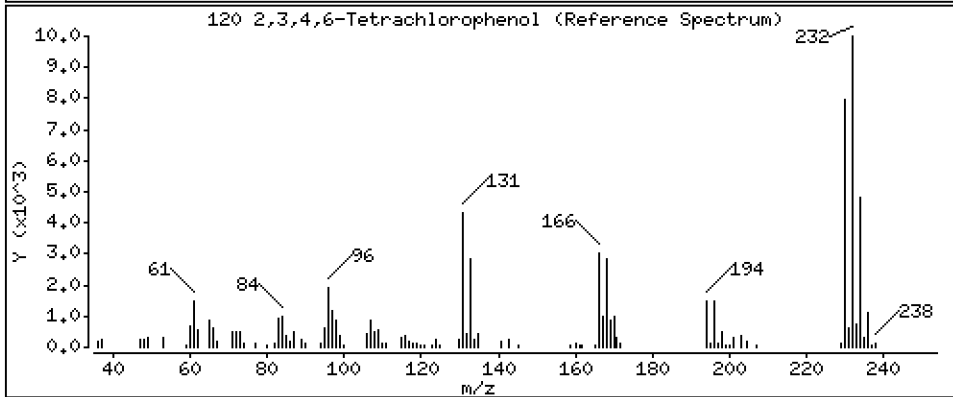
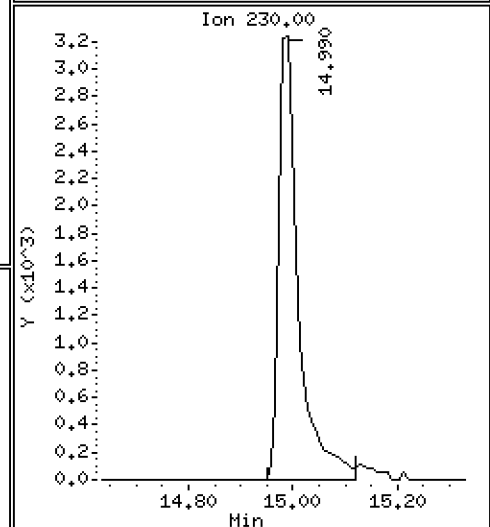
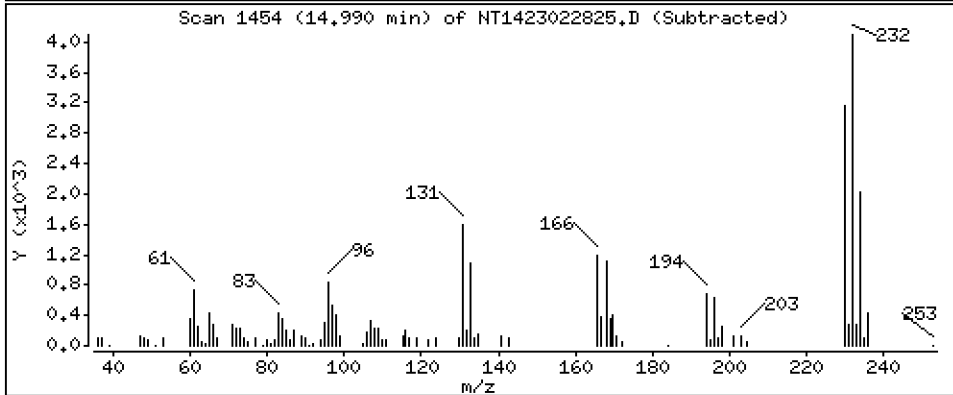
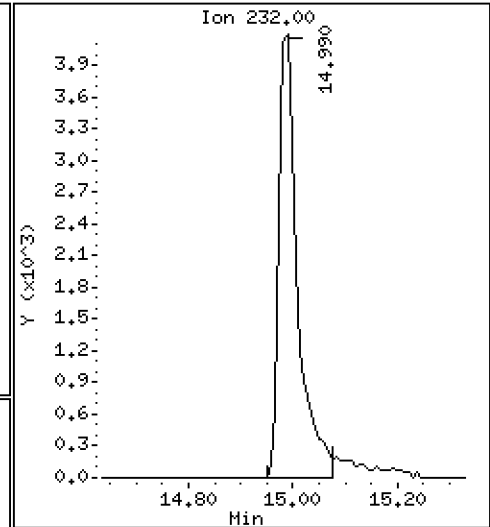
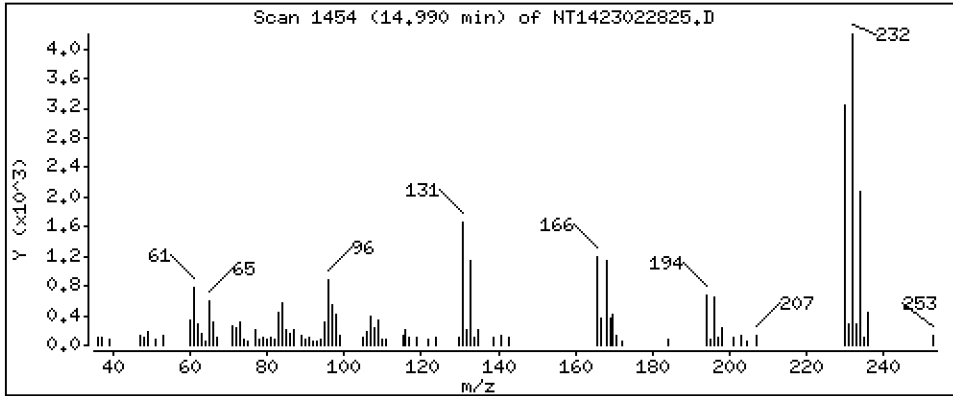
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,3401 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022825.D  
 Lab Smp Id: SLB0374-LCV2  
 Inj Date : 01-MAR-2023 16:04 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-LCV2  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 11-Mar-2023 09:11 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |            |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|------------|
|                                 |       |     |        |        |         |          | ON-COLUMN      | FINAL      |
|                                 | MASS  |     |        |        |         |          | (ug/mL)        | (ug/mL)    |
| \$ 1 2-Fluorophenol             | 112   |     | 6.050  | 6.050  | (0.739) | 24383    | 0.69014        | 0.6901     |
| \$ 2 Phenol-d5                  | 99    |     | 7.634  | 7.634  | (0.932) | 37650    | 0.75058        | 0.7506     |
| 3 Phenol                        | 94    |     | 7.657  | 7.657  | (0.935) | 29884    | 0.49931        | 0.4993     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.850  | 7.850  | (0.958) | 32113    | 0.75290        | 0.7529     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.781  | 7.781  | (0.950) | 21707    | 0.51480        | 0.5148     |
| 6 2-Chlorophenol                | 128   |     | 7.874  | 7.874  | (0.961) | 21368    | 0.48470        | 0.4847     |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.129  | 8.129  | (0.992) | 25546    | 0.52581        | 0.5258     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.191  | 8.191  | (1.000) | 130297   | 4.00000        |            |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.222  | 8.222  | (1.004) | 24260    | 0.50524        | 0.5052     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.548  | 8.548  | (1.044) | 16395    | 0.51058        | 0.5106     |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.571  | 8.571  | (1.046) | 23981    | 0.52085        | 0.5209     |
| 11 Benzyl alcohol               | 108   |     | 8.517  | 8.501  | (1.040) | 7511     | 0.28778        | 0.2878     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.789  | 8.789  | (1.073) | 6479     | 0.52179        | 0.5218 (M) |
| 13 2-Methylphenol               | 108   |     | 8.742  | 8.742  | (1.067) | 18670    | 0.49379        | 0.4938     |
| 17 Hexachloroethane             | 117   |     | 9.146  | 9.146  | (1.117) | 7573     | 0.41997        | 0.4200     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.045  | 9.053  | (1.104) | 15781    | 0.54817        | 0.5482     |
| 15 4-Methylphenol               | 108   |     | 9.021  | 9.014  | (1.101) | 18566    | 0.42187        | 0.4219     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.285  | 9.285  | (0.873) | 24219    | 0.53982        | 0.5398     |
| 19 Nitrobenzene                 | 77    |     | 9.324  | 9.316  | (0.876) | 23728    | 0.55036        | 0.5504     |
| 20 Isophorone                   | 82    |     | 9.766  | 9.774  | (0.918) | 29206    | 0.43378        | 0.4338     |
| 21 2-Nitrophenol                | 139   |     | 9.945  | 9.945  | (0.935) | 8334     | 0.37342        | 0.3734     |
| 22 2,4-Dimethylphenol           | 107   |     | 10.038 | 10.038 | (0.943) | 43062    | 1.09561        | 1.096      |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.224 | 10.224 | (0.961) | 21581    | 0.49789        | 0.4979     |
| 24 Benzoic acid                 | 105   |     | 10.649 | 10.364 | (1.001) | 8835     | 0.56723        | 0.5672 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | 10.410 | 10.402 | (0.978) | 34152    | 0.85893        | 0.8589     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.572 | 10.572 | (0.993) | 22471    | 0.50588        | 0.5059     |
| * 27 Naphthalene-d8             | 136   |     | 10.642 | 10.649 | (1.000) | 458645   | 4.00000        |            |
| 28 Naphthalene                  | 128   |     | 10.688 | 10.688 | (1.004) | 64820    | 0.52984        | 0.5298     |
| 29 4-Chloroaniline              | 127   |     | 10.850 | 10.850 | (1.020) | 49527    | 0.94650        | 0.9465     |
| 30 Hexachlorobutadiene          | 225   |     | 11.059 | 11.066 | (1.039) | 14894    | 0.54949        | 0.5495     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.848 | 11.840 | (1.113) | 34399    | 0.97231        | 0.9723     |
| 32 2-Methylnaphthalene          | 142   |     | 12.072 | 12.080 | (1.134) | 45932    | 0.50700        | 0.5070     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.544 | 12.545 | (0.881) | 807      | 0.02907        | 0.02907    |

| Compounds                         | QUANT SIG |        |        |         |          | CONCENTRATIONS       |                  |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 12.715 | 12.715 | (0.893) | 24128    | 0.93333              | 0.9333           |
| 35 2,4,5-Trichlorophenol          | 196       | 12.800 | 12.792 | (0.899) | 24519    | 0.87721              | 0.8772           |
| § 36 2-Fluorobiphenyl             | 172       | 12.869 | 12.877 | (0.904) | 53901    | 0.52329              | 0.5233           |
| 37 2-Chloronaphthalene            | 162       | 13.055 | 13.063 | (0.917) | 42981    | 0.52054              | 0.5205           |
| 38 2-Nitroaniline                 | 65        | 13.349 | 13.349 | (0.938) | 22569    | 1.04801              | 1.048            |
| 39 Dimethylphthalate              | 163       | 13.790 | 13.798 | (0.969) | 45635    | 0.54823              | 0.5482           |
| 40 Acenaphthylene                 | 152       | 13.914 | 13.922 | (0.978) | 68668    | 0.56675              | 0.5668           |
| 41 2,6-Dinitrotoluene             | 165       | 13.914 | 13.922 | (0.978) | 19398    | 0.99445              | 0.9944           |
| * 42 Acenaphthene-d10             | 164       | 14.232 | 14.232 | (1.000) | 264644   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138       | 14.201 | 14.201 | (0.998) | 18220    | 0.91134              | 0.9113 (M)       |
| 44 Acenaphthene                   | 153       | 14.293 | 14.301 | (1.004) | 40422    | 0.52108              | 0.5211           |
| 45 2,4-Dinitrophenol              | 184       | 14.479 | 14.417 | (1.017) | 4113     | 0.33346              | 0.3335 (M)       |
| 46 Dibenzofuran                   | 168       | 14.626 | 14.626 | (1.028) | 62717    | 0.50811              | 0.5081           |
| 47 4-Nitrophenol                  | 109       | 14.626 | 14.579 | (1.028) | 7202     | 0.72835              | 0.7283 (M)       |
| 48 2,4-Dinitrotoluene             | 165       | 14.719 | 14.726 | (1.034) | 24221    | 0.86252              | 0.8625           |
| 50 Diethylphthalate               | 149       | 15.237 | 15.252 | (1.071) | 42301    | 0.54343              | 0.5434           |
| 49 Fluorene                       | 166       | 15.329 | 15.330 | (1.077) | 55678    | 0.53537              | 0.5354           |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.345 | 15.345 | (1.078) | 28067    | 0.50722              | 0.5072           |
| 52 4-Nitroaniline                 | 138       | 15.469 | 15.469 | (1.087) | 15994    | 0.80704              | 0.8070           |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.553 | 15.553 | (0.902) | 12809    | 0.76541              | 0.7654           |
| 54 N-Nitrosodiphenylamine         | 169       | 15.600 | 15.607 | (0.905) | 35122    | 0.55522              | 0.5552           |
| § 55 2,4,6-Tribromophenol         | 330       | 15.869 | 15.870 | (1.115) | 8877     | 0.62352              | 0.6235           |
| 56 4-Bromophenyl-phenylether      | 248       | 16.332 | 16.340 | (0.947) | 14281    | 0.51351              | 0.5135           |
| 57 Hexachlorobenzene              | 284       | 16.626 | 16.626 | (0.965) | 15894    | 0.51981              | 0.5198           |
| 58 Pentachlorophenol              | 266       | 17.021 | 17.005 | (0.987) | 6162     | 0.42793              | 0.4279 (M)       |
| * 59 Phenanthrene-d10             | 188       | 17.237 | 17.237 | (1.000) | 503378   | 4.00000              |                  |
| 60 Phenanthrene                   | 178       | 17.284 | 17.291 | (1.003) | 68635    | 0.51255              | 0.5125           |
| 61 Anthracene                     | 178       | 17.376 | 17.384 | (1.008) | 65695    | 0.51894              | 0.5189           |
| 62 Carbazole                      | 167       | 17.732 | 17.732 | (1.029) | 54926    | 0.49504              | 0.4950           |
| 63 Di-n-butylphthalate            | 149       | 18.583 | 18.583 | (1.078) | 68478    | 0.47836              | 0.4784           |
| 64 Fluoranthene                   | 202       | 19.705 | 19.705 | (0.881) | 71411    | 0.51288              | 0.5129           |
| 65 Pyrene                         | 202       | 20.131 | 20.139 | (0.900) | 75143    | 0.51188              | 0.5119           |
| § 66 Terphenyl-d14                | 244       | 20.464 | 20.471 | (0.915) | 58216    | 0.51507              | 0.5151           |
| 67 Butylbenzylphthalate           | 149       | 21.431 | 21.439 | (0.958) | 26564    | 0.51187              | 0.5119           |
| 68 Benzo(a)anthracene             | 228       | 22.330 | 22.330 | (0.999) | 67033    | 0.54529              | 0.5453           |
| * 69 Chrysene-d12                 | 240       | 22.361 | 22.361 | (1.000) | 366987   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.314 | 22.322 | (0.998) | 65094    | 1.85418              | 1.854            |
| 71 Chrysene                       | 228       | 22.399 | 22.407 | (1.002) | 62929    | 0.53257              | 0.5326           |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.484 | 22.492 | (0.958) | 37013    | 0.45397              | 0.4540           |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.468 | 23.468 | (1.000) | 534079   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149       | 23.475 | 23.483 | (1.000) | 70363    | 0.50037              | 0.5004           |
| 74 Benzo(b)fluoranthene           | 252       | 24.095 | 24.103 | (0.975) | 73828    | 0.51526              | 0.5153           |
| 75 Benzo(k)fluoranthene           | 252       | 24.126 | 24.134 | (0.976) | 82321    | 0.53255              | 0.5325           |
| 76 Benzo(a)pyrene                 | 252       | 24.614 | 24.621 | (0.996) | 67241    | 0.54699              | 0.5470           |
| * 77 Perylene-d12                 | 264       | 24.706 | 24.707 | (1.000) | 433681   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.784 | 26.784 | (1.084) | 50421    | 0.32584              | 0.3258           |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.792 | 26.792 | (1.084) | 46446    | 0.35340              | 0.3534           |
| 80 Benzo(g,h,i)perylene           | 276       | 27.375 | 27.375 | (1.108) | 31480    | 0.23325              | 0.2332           |
| 90 N-Nitrosodimethylamine         | 74        | 3.988  | 3.988  | (0.487) | 19578    | 0.73328              | 0.7333           |
| 91 Aniline                        | 93        | 7.680  | 7.681  | (0.938) | 55676    | 0.90344              | 0.9034           |
| 93 Benzidine                      | 184       | 19.999 | 19.992 | (0.894) | 44776    | 0.75309              | 0.7531           |
| 103 Pyridine                      | 79        | 4.019  | 3.996  | (0.491) | 26398    | 0.33418              | 0.3342           |
| 105 1-methylnaphthalene           | 142       | 12.297 | 12.297 | (1.156) | 42635    | 0.51118              | 0.5112           |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.661 | 15.669 | (1.100) | 51044    | 0.57119              | 0.5712           |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 24.095 | 24.134 | (0.975) | 147811   | 1.05456              | 1.055            |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 14.989 | 14.981 | (1.053) | 10135    | 0.34010              | 0.3401           |

QC Flag Legend

M - Compound response manually integrated.



ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023  
 Lab File ID: NT1423022825.D Calibration Time: 13:39  
 Lab Smp Id: SLB0374-LCV2  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 125853   | 62927      | 251706  | 130297 | 3.53   |
| 27 Naphthalene-d8     | 454961   | 227481     | 909922  | 458645 | 0.81   |
| 42 Acenaphthene-d10   | 273779   | 136890     | 547558  | 264644 | -3.34  |
| 59 Phenanthrene-d10   | 520384   | 260192     | 1040768 | 503378 | -3.27  |
| 69 Chrysene-d12       | 399183   | 199592     | 798366  | 366987 | -8.07  |
| 134 Di-n-octylphthala | 602810   | 301405     | 1205620 | 534079 | -11.40 |
| 77 Perylene-d12       | 478887   | 239444     | 957774  | 433681 | -9.44  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.19     | 7.69     | 8.69  | 8.19   | -0.00 |
| 27 Naphthalene-d8     | 10.65    | 10.15    | 11.15 | 10.64  | -0.07 |
| 42 Acenaphthene-d10   | 14.23    | 13.73    | 14.73 | 14.23  | -0.00 |
| 59 Phenanthrene-d10   | 17.24    | 16.74    | 17.74 | 17.24  | -0.00 |
| 69 Chrysene-d12       | 22.36    | 21.86    | 22.86 | 22.36  | -0.00 |
| 134 Di-n-octylphthala | 23.47    | 22.97    | 23.97 | 23.47  | -0.00 |
| 77 Perylene-d12       | 24.71    | 24.21    | 25.21 | 24.71  | -0.00 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022825.D

Lab ID: SLB0374-LCV2  
nt14.i, ABN.m, 01-MAR-2023 16:04

RT CO-ELUTION COMPOUNDS

---

13.915 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND     |
|-------|---------|--------|--------------|
| 1.001 | 0.973   | 0.0276 | Benzoic acid |

---

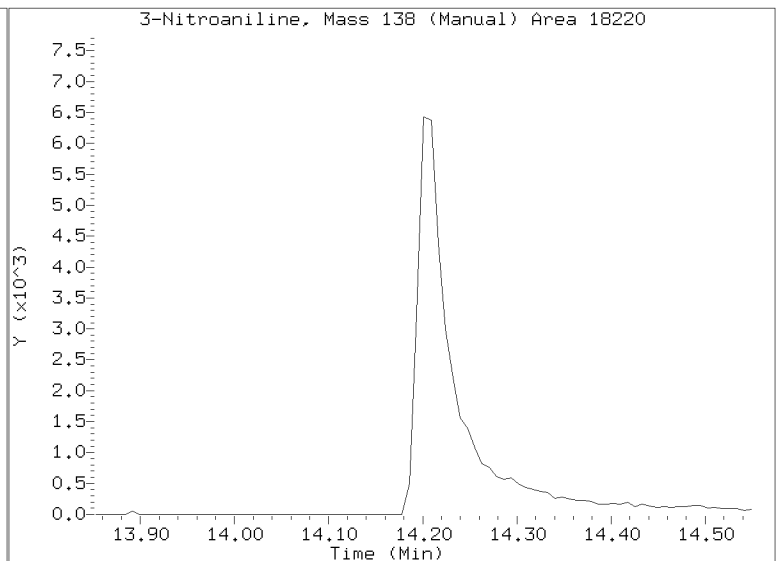
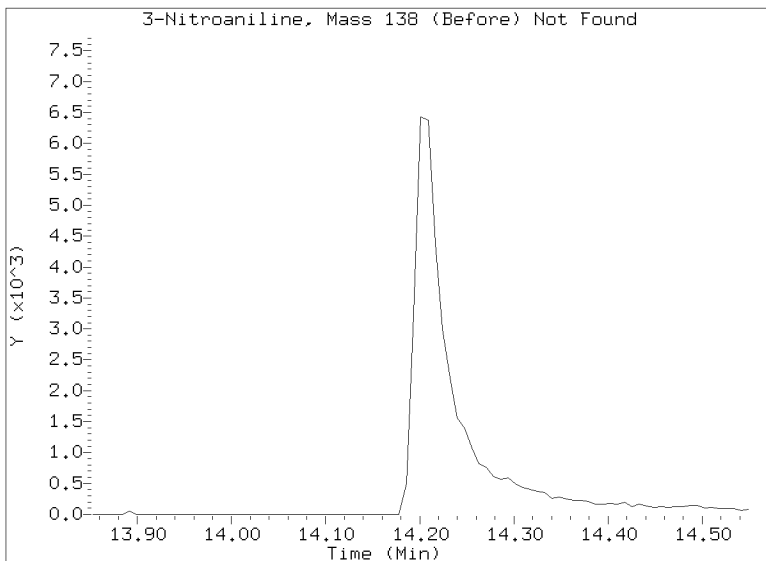
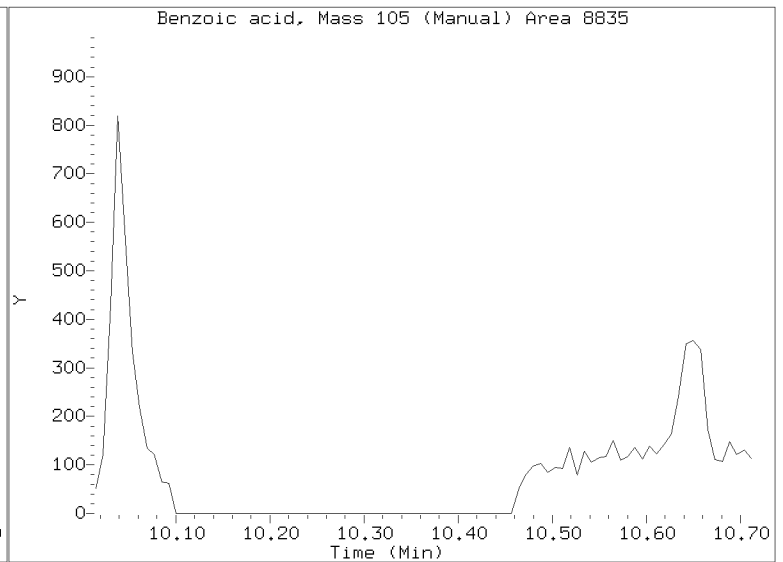
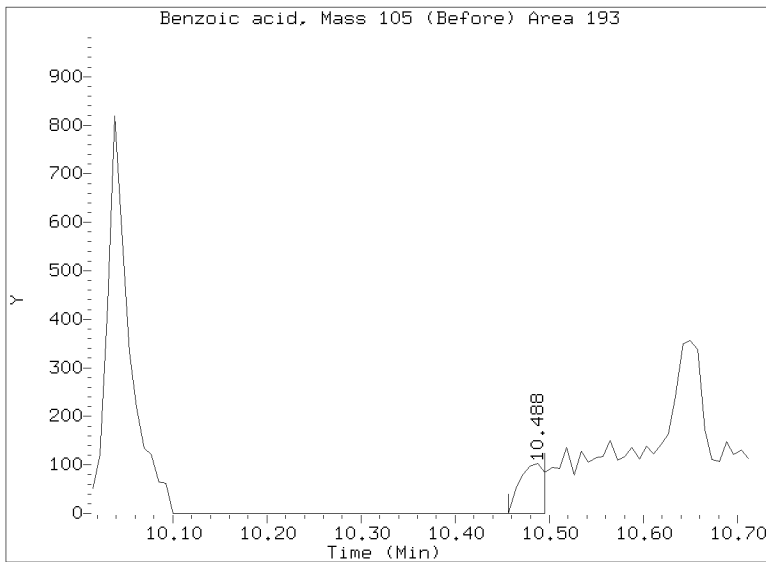
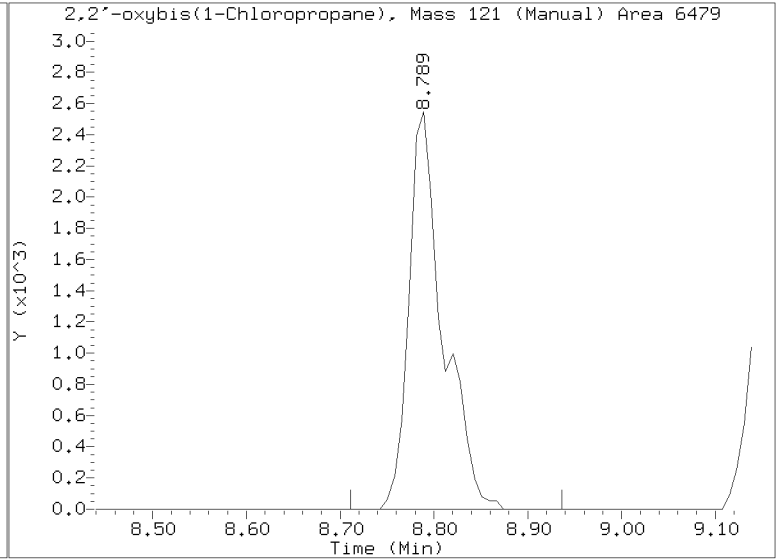
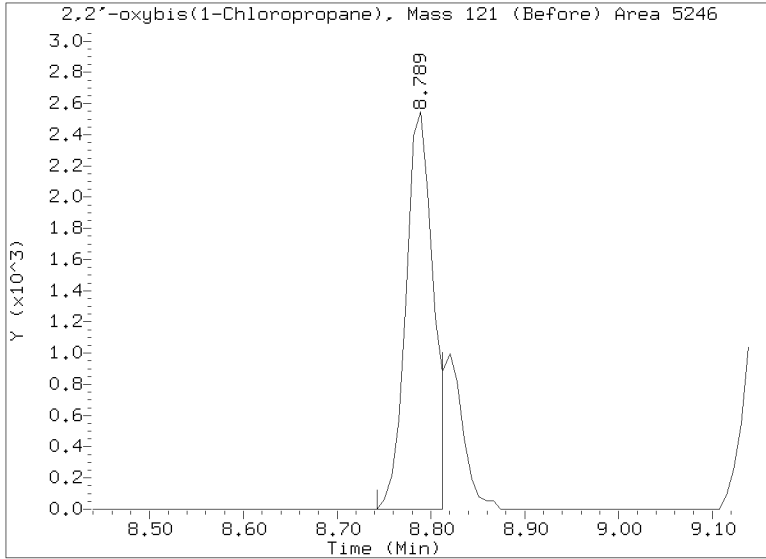
RRT check based on Ccal File: NT1423022821.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

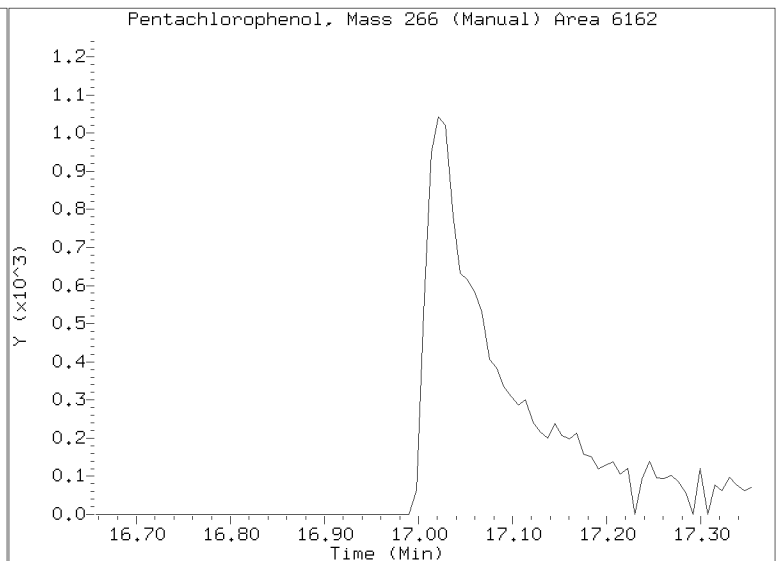
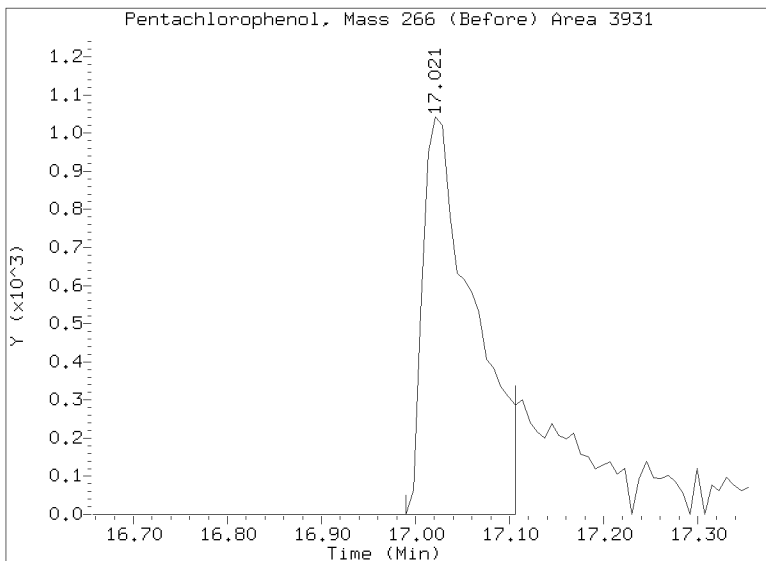
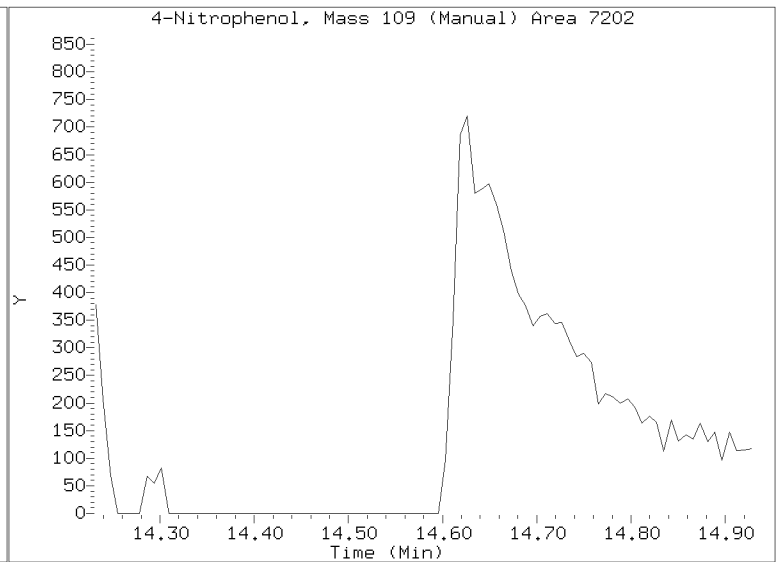
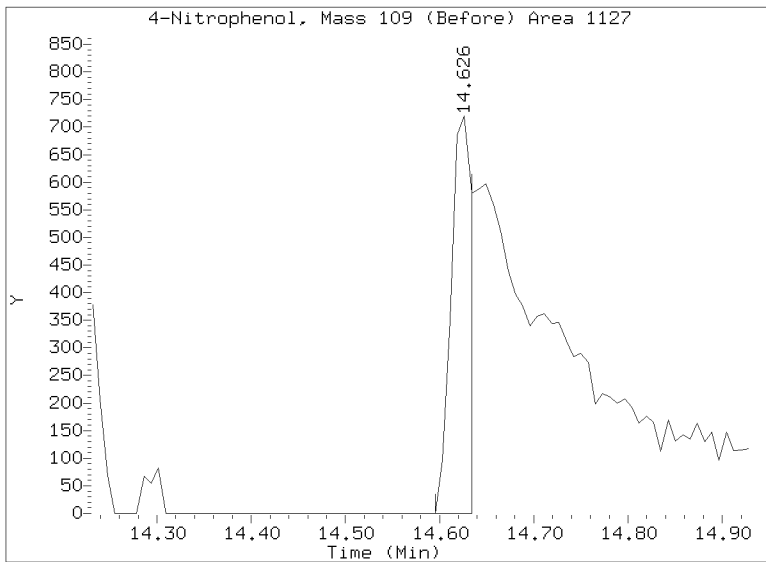
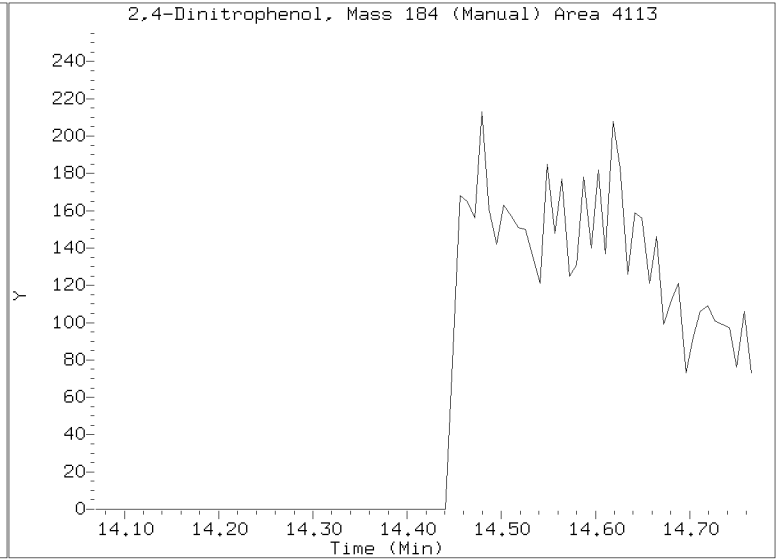
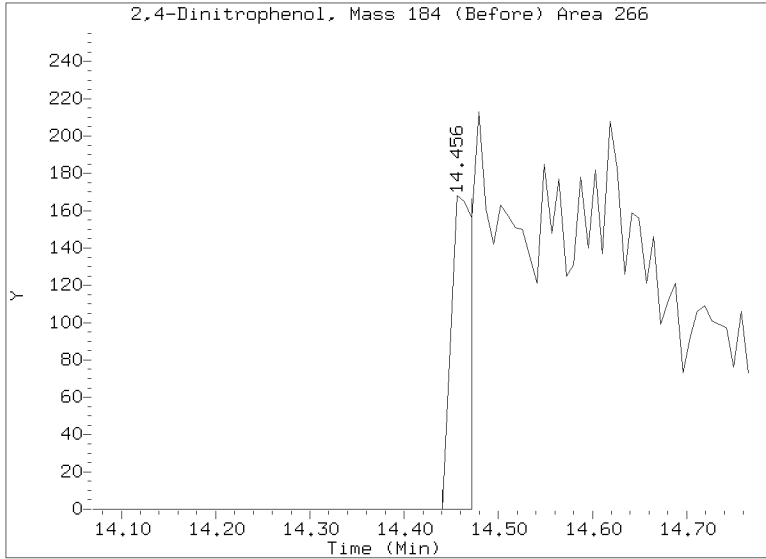
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Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022825.D  
Injection Date: 01-MAR-2023 16:04  
Lab ID: SLB0374-LCV2 Client ID:  
Report Date: 03/11/2023 09:11



# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022825.D  
Injection Date: 01-MAR-2023 16:04  
Lab ID:SLB0374-LCV2 Client ID:  
Report Date: 03/11/2023 09:11





**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-LCV3

**Sequence:** SLB0374

**Standard ID:** K011105

| ANALYTE                      | EXPECTED<br>(ug/mL) | FOUND<br>(ug/mL) | % DRIFT | QC LIMIT |
|------------------------------|---------------------|------------------|---------|----------|
| Phenol                       | 0.20000             | 0.2              | 16.5    | 50.00    |
| bis(2-chloroethyl) ether     | 0.20000             | 0.2              | 11.5    | 50.00    |
| 2-Chlorophenol               | 0.20000             | 0.2              | -9.4    | 50.00    |
| 1,3-Dichlorobenzene          | 0.20000             | 0.2              | 4.7     | 50.00    |
| 1,4-Dichlorobenzene          | 0.20000             | 0.2              | 6.9     | 50.00    |
| 1,2-Dichlorobenzene          | 0.20000             | 0.2              | 6.5     | 50.00    |
| Benzyl Alcohol               | 0.20000             | 0.09             | -52.9 * | 50.00    |
| 2,2'-Oxybis(1-chloropropane) | 0.20000             | 0.2              | 5.0     | 50.00    |
| 2-Methylphenol               | 0.20000             | 0.2              | -14.1   | 50.00    |
| Hexachloroethane             | 0.20000             | 0.1              | -26.4   | 50.00    |
| N-Nitroso-di-n-Propylamine   | 0.20000             | 0.2              | 4.2     | 50.00    |
| 4-Methylphenol               | 0.20000             | 0.1              | -44.1   | 50.00    |
| Nitrobenzene                 | 0.20000             | 0.2              | -0.06   | 50.00    |
| Isophorone                   | 0.20000             | 0.2              | -21.1   | 50.00    |
| 2-Nitrophenol                | 0.20000             | 0.2              | -22.7   | 50.00    |
| 2,4-Dimethylphenol           | 0.40000             | 0.4              | 0.7     | 50.00    |
| Bis(2-Chloroethoxy)methane   | 0.20000             | 0.2              | -8.3    | 50.00    |
| 2,4-Dichlorophenol           | 0.40000             | 0.3              | -20.2   | 50.00    |
| 1,2,4-Trichlorobenzene       | 0.20000             | 0.2              | -0.3    | 50.00    |
| Naphthalene                  | 0.20000             | 0.2              | 7.8     | 50.00    |
| Benzoic acid                 | 0.80000             | 0.08             | -89.8 * | 50.00    |
| 4-Chloroaniline              | 0.40000             | 0.3              | -13.1   | 50.00    |
| Hexachlorobutadiene          | 0.20000             | 0.2              | -11.1   | 50.00    |
| 4-Chloro-3-Methylphenol      | 0.40000             | 0.3              | -18.6   | 50.00    |
| 2-Methylnaphthalene          | 0.20000             | 0.2              | -3.7    | 50.00    |
| Hexachlorocyclopentadiene    | 0.40000             | 0.003            | -99.3 * | 50.00    |
| 2,4,6-Trichlorophenol        | 0.40000             | 0.3              | -21.0   | 50.00    |
| 2,4,5-Trichlorophenol        | 0.40000             | 0.3              | -13.5   | 50.00    |
| 2-Chloronaphthalene          | 0.20000             | 0.2              | -1.5    | 50.00    |



**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-LCV3

**Sequence:** SLB0374

**Standard ID:** K011105

|                            |         |     |         |       |
|----------------------------|---------|-----|---------|-------|
| 2-Nitroaniline             | 0.40000 | 0.3 | -17.3   | 50.00 |
| Acenaphthylene             | 0.20000 | 0.2 | 10.3    | 50.00 |
| Dimethylphthalate          | 0.20000 | 0.2 | 4.8     | 50.00 |
| 2,6-Dinitrotoluene         | 0.40000 | 0.4 | -9.3    | 50.00 |
| Acenaphthene               | 0.20000 | 0.2 | 6.2     | 50.00 |
| 3-Nitroaniline             | 0.40000 | 0.3 | -26.8   | 50.00 |
| 2,4-Dinitrophenol          | 0.80000 | 0.0 | *       | 50.00 |
| Dibenzofuran               | 0.20000 | 0.2 | -1.0    | 50.00 |
| 4-Nitrophenol              | 0.40000 | 0.2 | -48.1   | 50.00 |
| 2,4-Dinitrotoluene         | 0.40000 | 0.3 | -33.5   | 50.00 |
| Fluorene                   | 0.20000 | 0.2 | 6.4     | 50.00 |
| 4-Chlorophenylphenyl ether | 0.20000 | 0.2 | -1.7    | 50.00 |
| Diethyl phthalate          | 0.20000 | 0.2 | 6.1     | 50.00 |
| 4-Nitroaniline             | 0.40000 | 0.3 | -32.5   | 50.00 |
| 4,6-Dinitro-2-methylphenol | 0.80000 | 0.1 | -82.6 * | 50.00 |
| N-Nitrosodiphenylamine     | 0.20000 | 0.2 | 5.4     | 50.00 |
| 4-Bromophenyl phenyl ether | 0.20000 | 0.2 | -2.7    | 50.00 |
| Hexachlorobenzene          | 0.20000 | 0.2 | 6.5     | 50.00 |
| Pentachlorophenol          | 0.40000 | 0.1 | -71.9 * | 50.00 |
| Phenanthrene               | 0.20000 | 0.2 | 0.2     | 50.00 |
| Anthracene                 | 0.20000 | 0.2 | 0.5     | 50.00 |
| Carbazole                  | 0.20000 | 0.2 | -8.3    | 50.00 |
| Di-n-Butylphthalate        | 0.20000 | 0.2 | -8.5    | 50.00 |
| Fluoranthene               | 0.20000 | 0.2 | -8.2    | 50.00 |
| Pyrene                     | 0.20000 | 0.2 | -8.3    | 50.00 |
| Butylbenzylphthalate       | 0.20000 | 0.2 | -0.8    | 50.00 |
| Benzo(a)anthracene         | 0.20000 | 0.2 | 10.6    | 50.00 |
| 3,3'-Dichlorobenzidine     | 0.60000 | 0.7 | 19.9    | 50.00 |
| Chrysene                   | 0.20000 | 0.2 | 7.5     | 50.00 |
| bis(2-Ethylhexyl)phthalate | 0.20000 | 0.2 | -11.5   | 50.00 |
| Di-n-Octylphthalate        | 0.20000 | 0.2 | 1.4     | 50.00 |



**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-LCV3

**Sequence:** SLB0374

**Standard ID:** K011105

|                           |         |       |         |       |
|---------------------------|---------|-------|---------|-------|
| Benzofluoranthenes, Total | 0.40000 | 0.5   | 17.8    | 50.00 |
| Benzo(a)pyrene            | 0.20000 | 0.2   | 6.4     | 50.00 |
| Indeno(1,2,3-cd)pyrene    | 0.20000 | 0.09  | -54.9 * | 50.00 |
| Dibenzo(a,h)anthracene    | 0.20000 | 0.1   | -50.7 * | 50.00 |
| Benzo(g,h,i)perylene      | 0.20000 | 0.07  | -64.3 * | 50.00 |
| 1-Methylnaphthalene       | 0.20000 | 0.2   | -2.7    | 50.00 |
| 2-Fluorophenol            | 0.30000 | 0.307 | 2.5     | 50.00 |
| Phenol-d5                 | 0.30000 | 0.283 | -5.6    | 50.00 |
| 2-Chlorophenol-d4         | 0.30000 | 0.279 | -7.1    | 50.00 |
| 1,2-Dichlorobenzene-d4    | 0.20000 | 0.192 | -4.1    | 50.00 |
| Nitrobenzene-d5           | 0.20000 | 0.195 | -2.7    | 50.00 |
| 2-Fluorobiphenyl          | 0.20000 | 0.207 | 3.6     | 50.00 |
| 2,4,6-Tribromophenol      | 0.30000 | 0.203 | -32.2   | 50.00 |
| p-Terphenyl-d14           | 0.20000 | 0.181 | -9.6    | 50.00 |

\* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022838.D

Date: 01-MAR-2023 23:52

Client ID:

Sample Info: SLB0374-LCV3

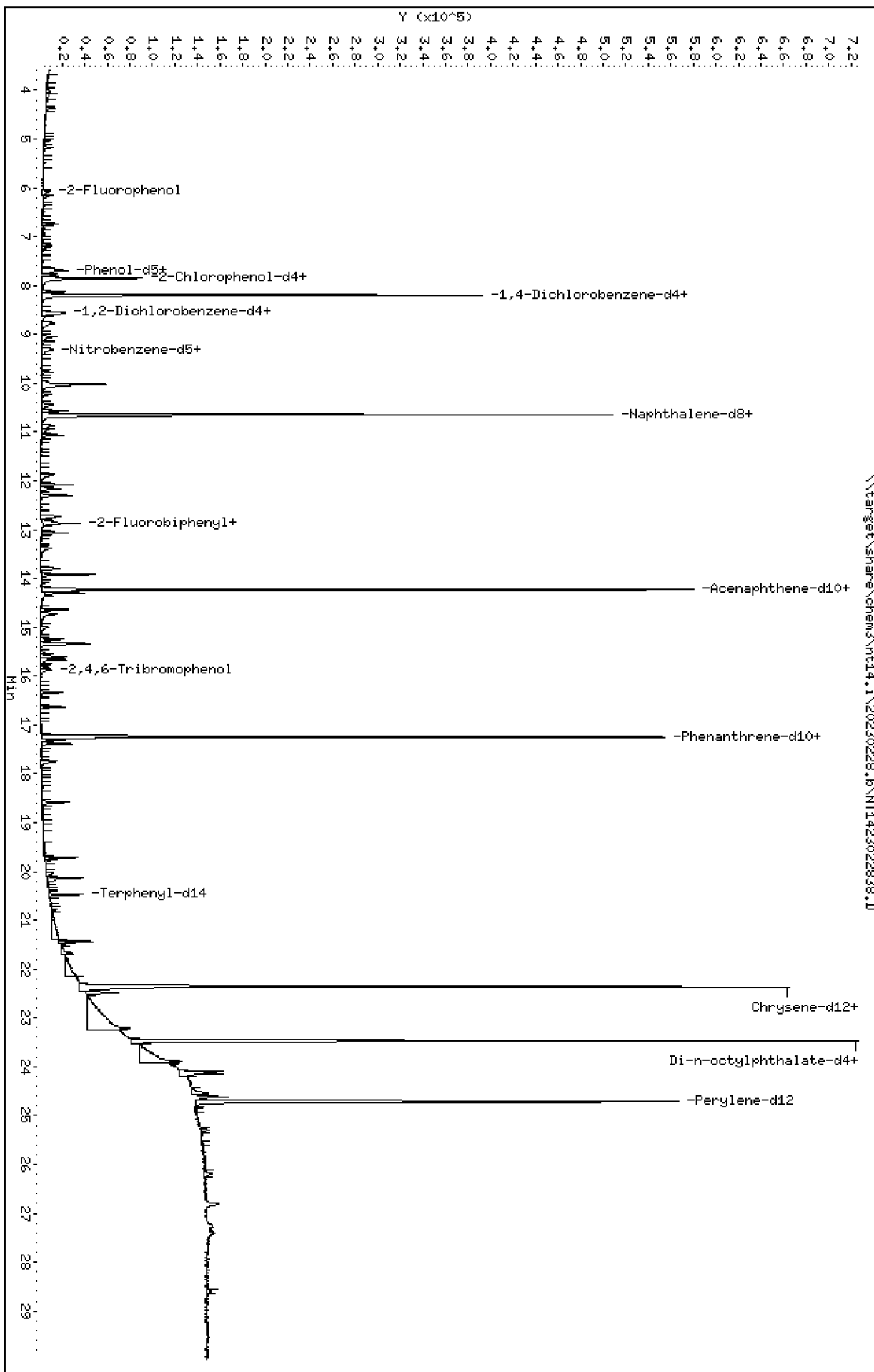
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022838.D





Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

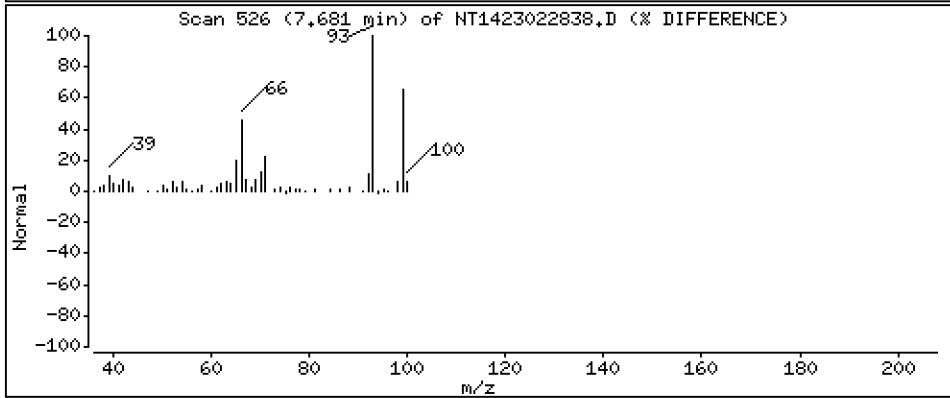
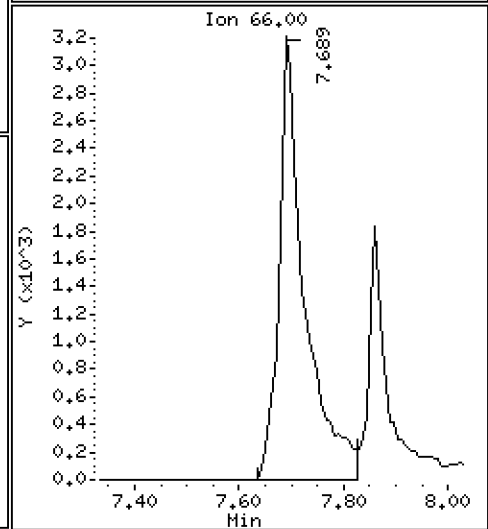
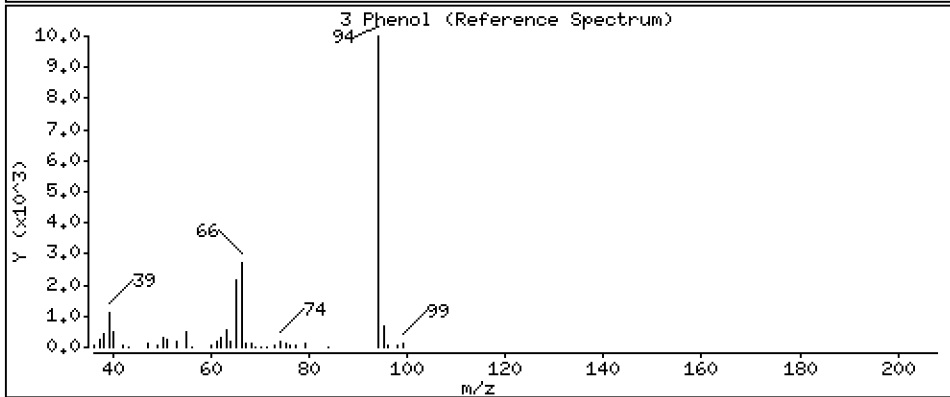
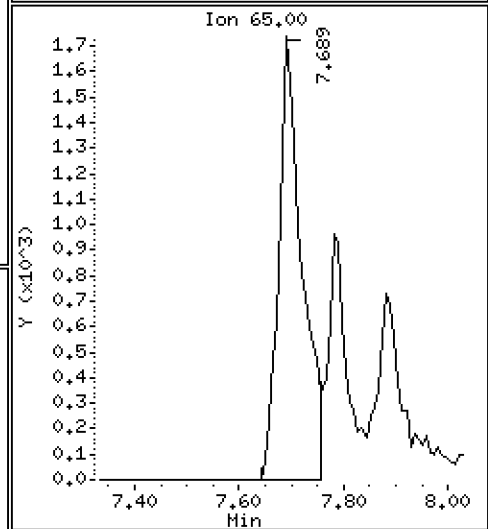
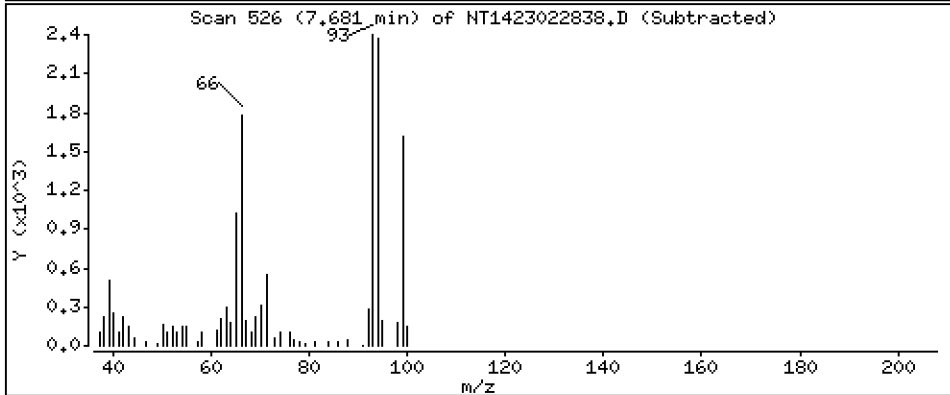
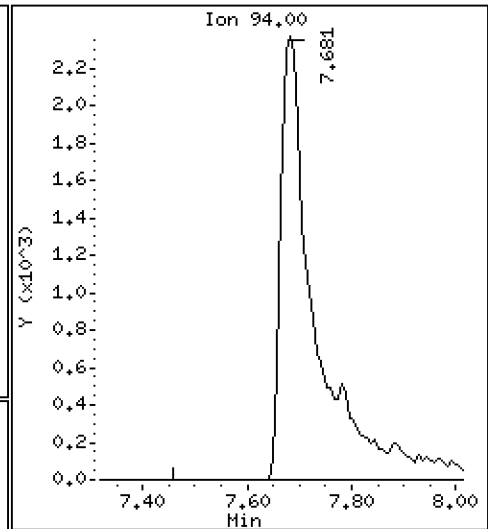
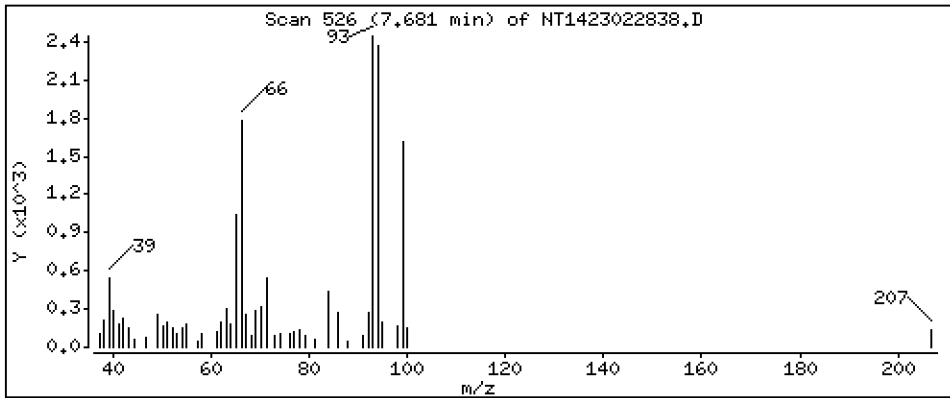
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,2329 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

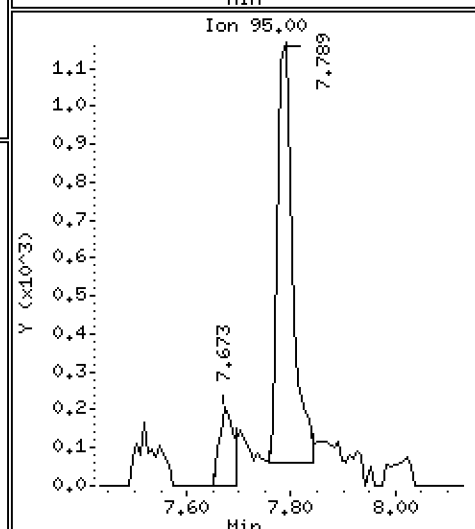
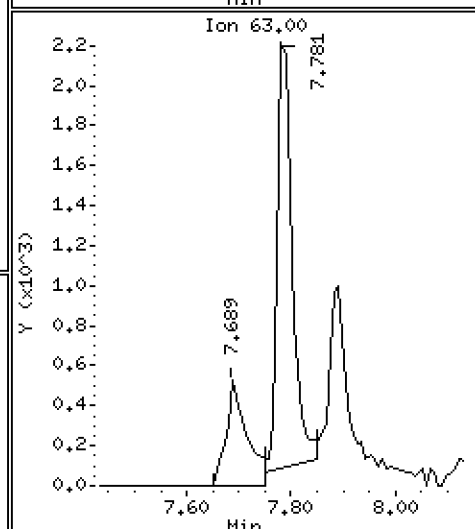
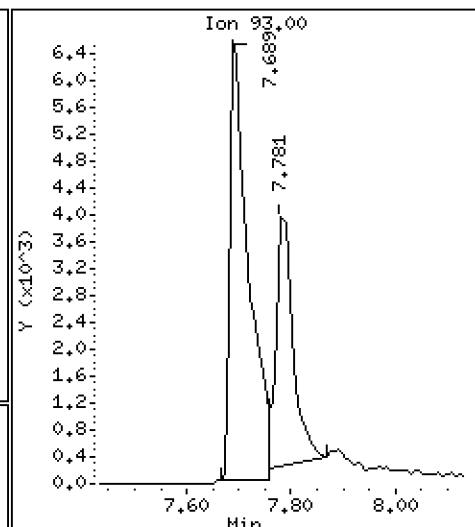
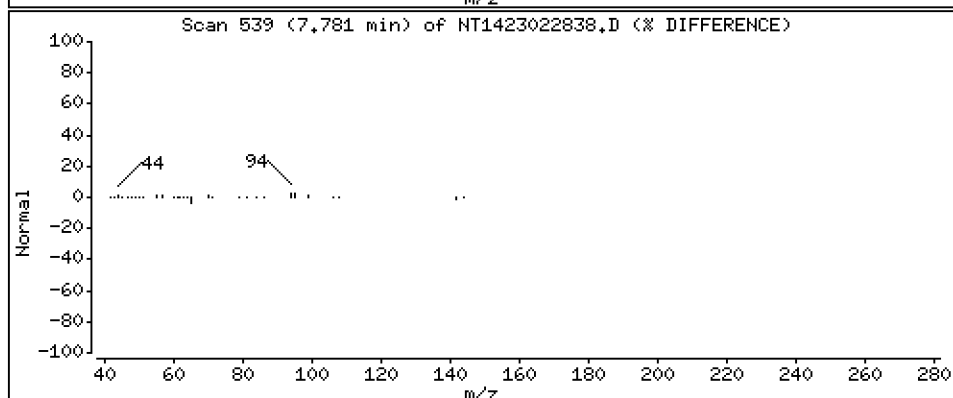
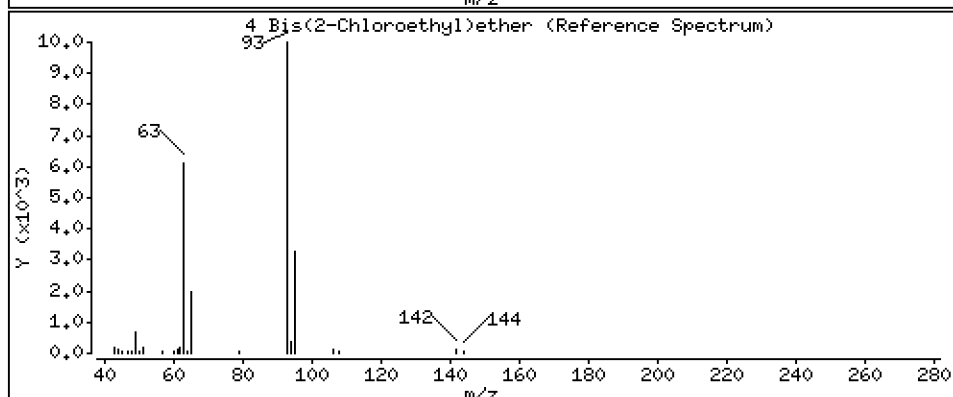
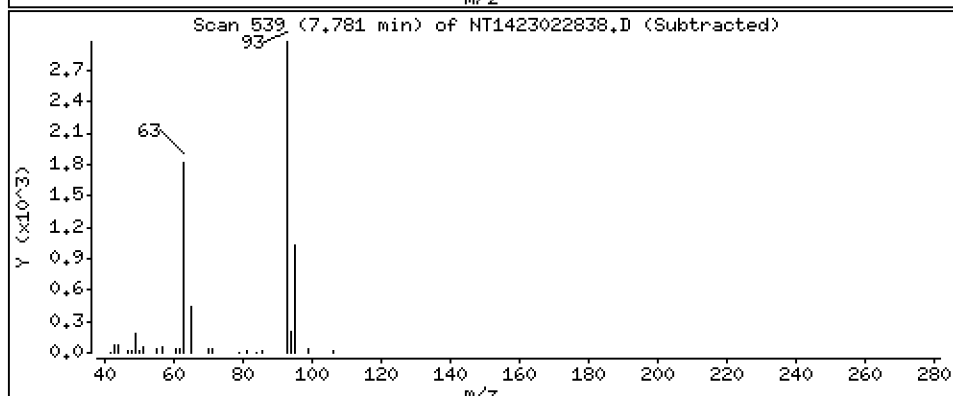
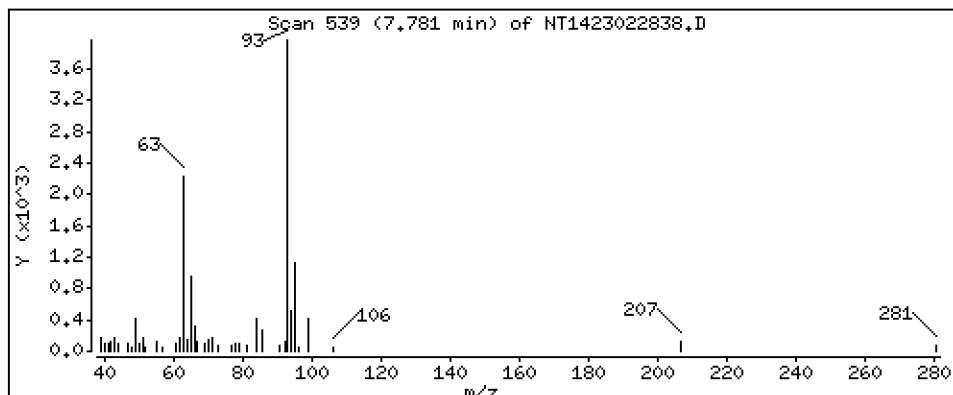
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,2229 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

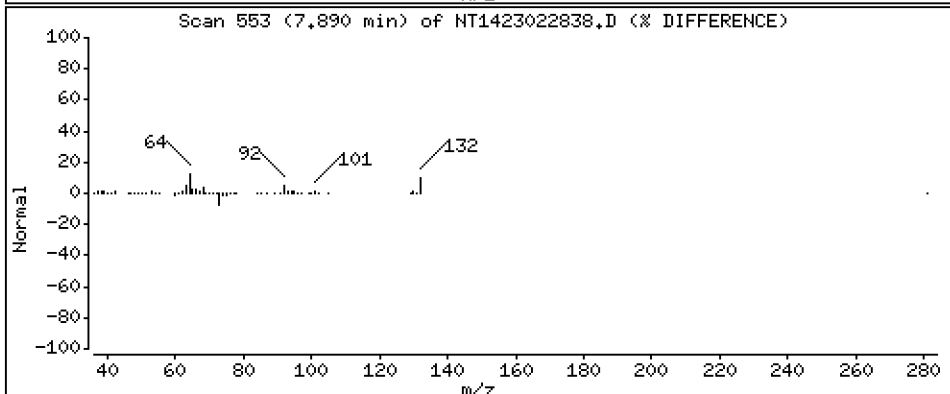
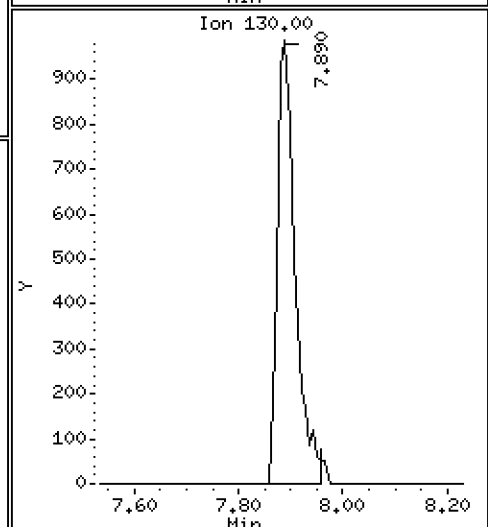
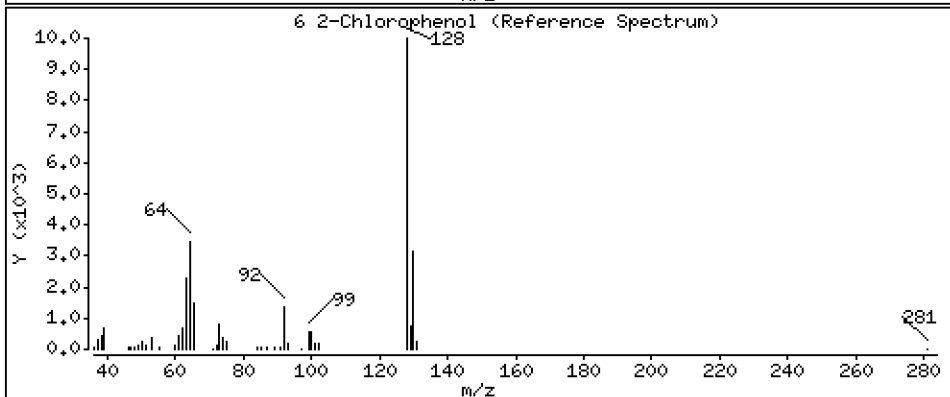
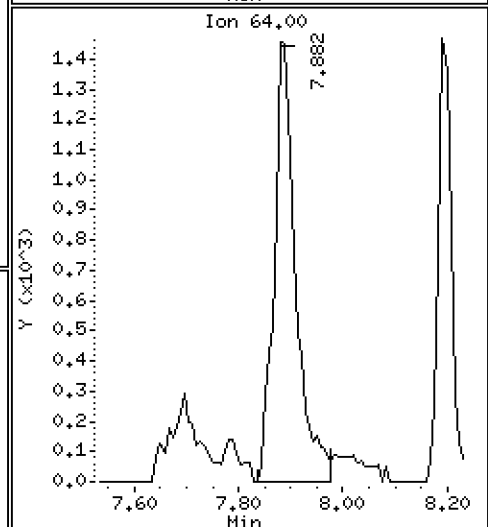
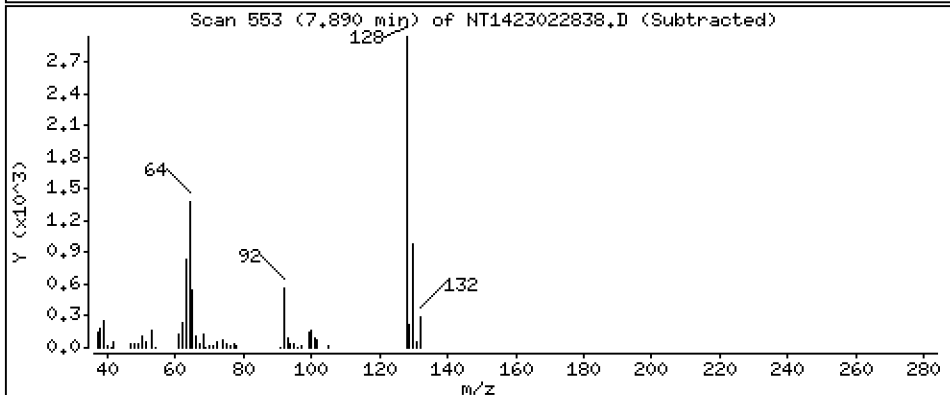
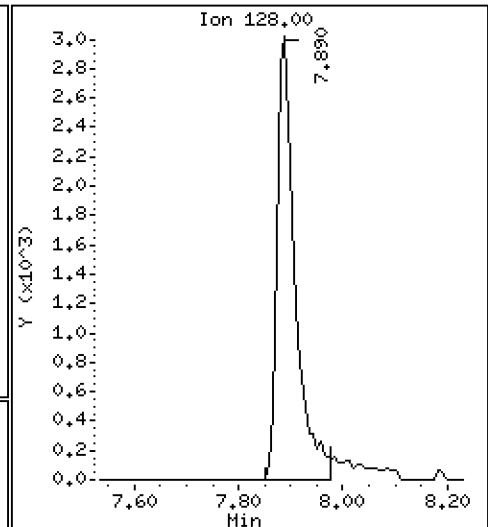
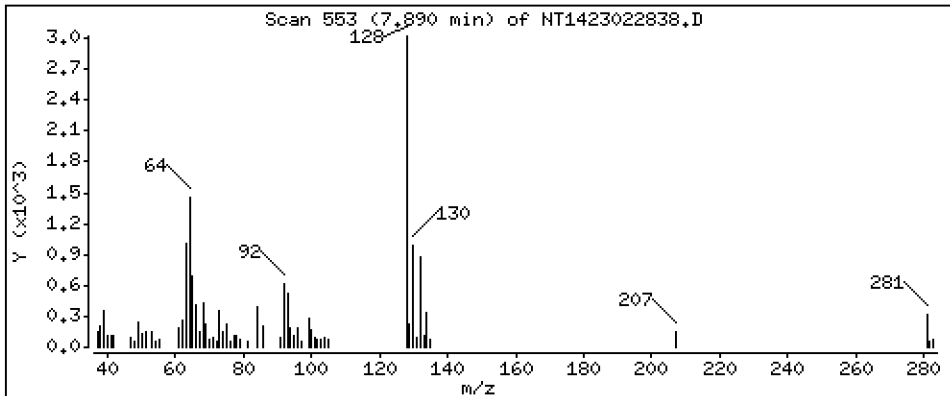
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,1812 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

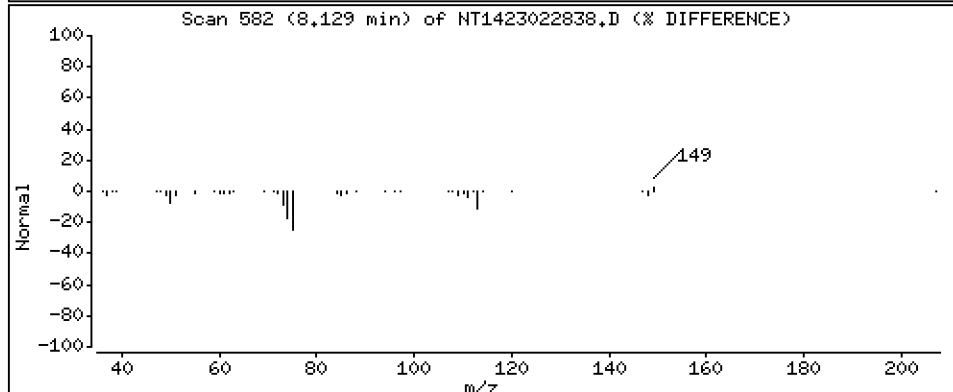
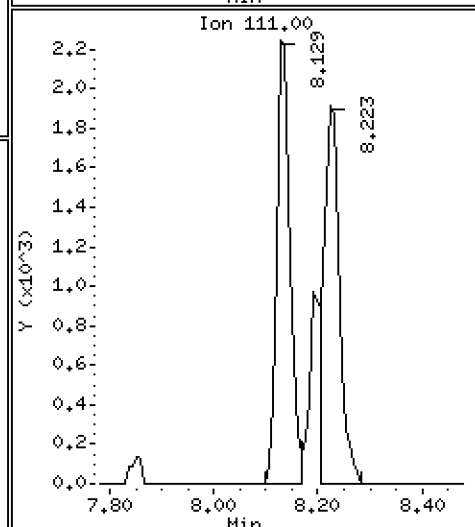
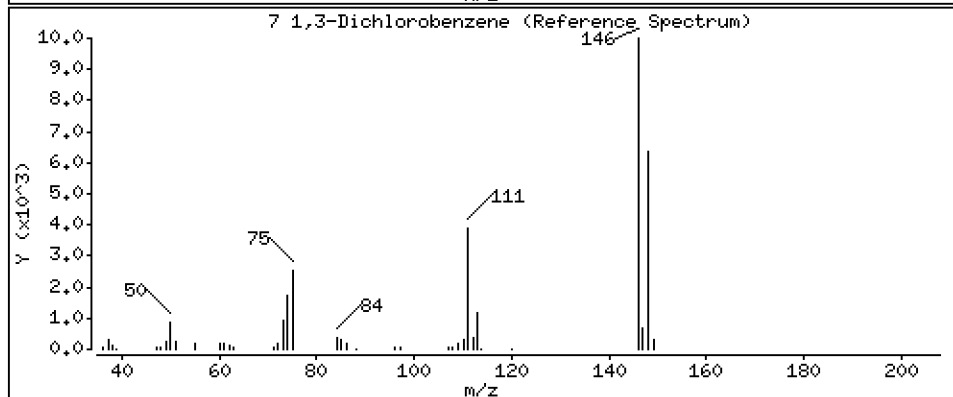
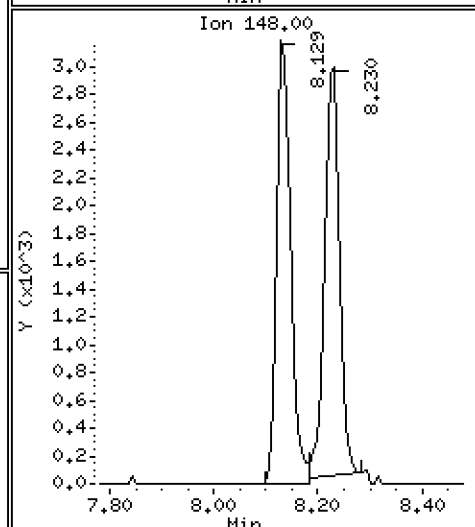
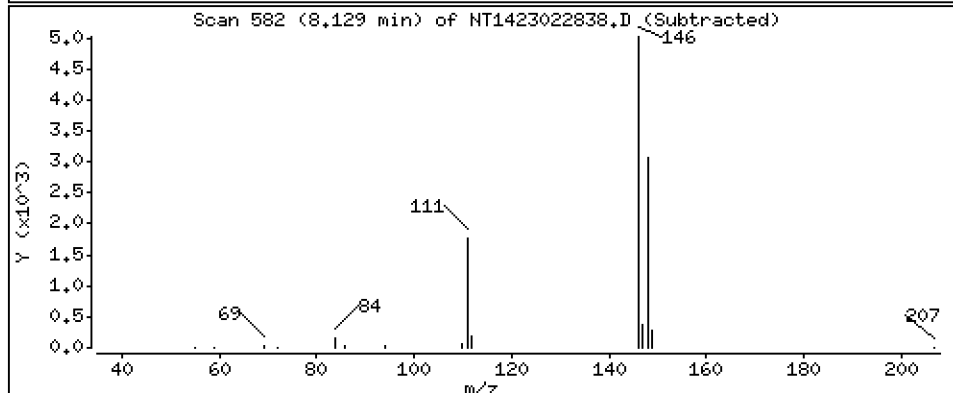
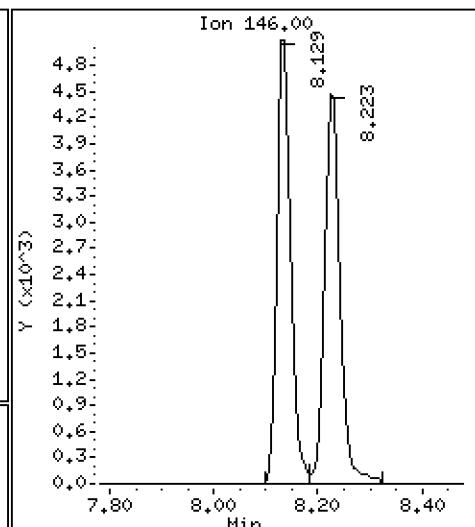
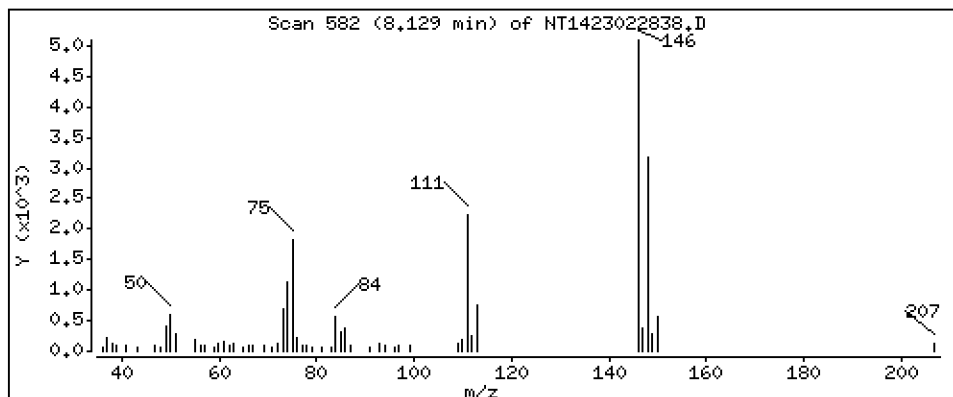
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,2093 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

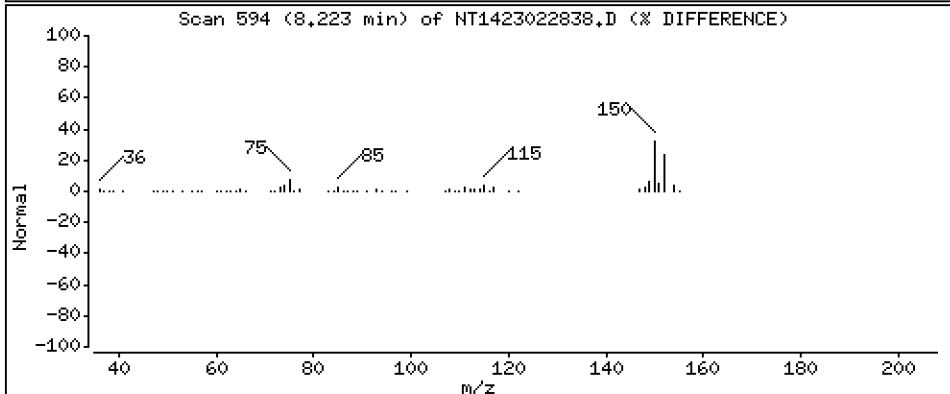
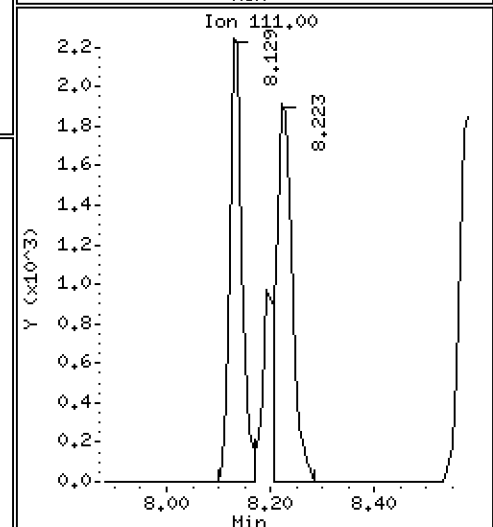
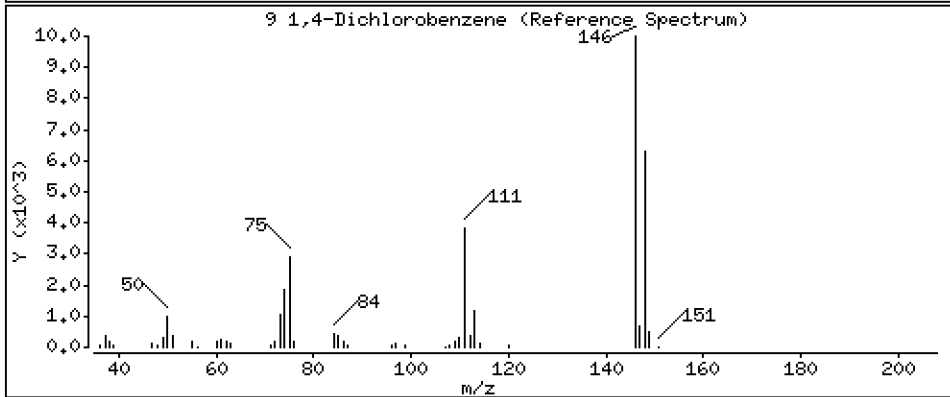
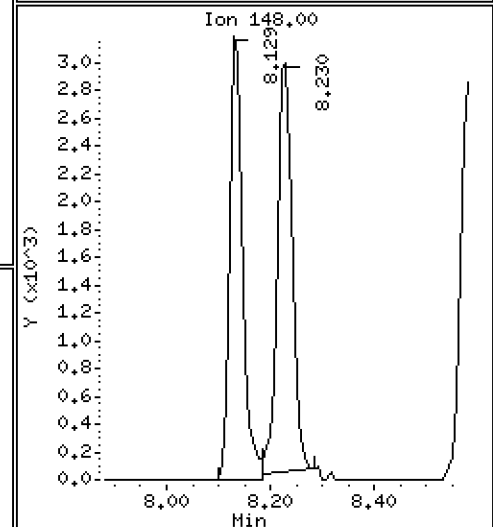
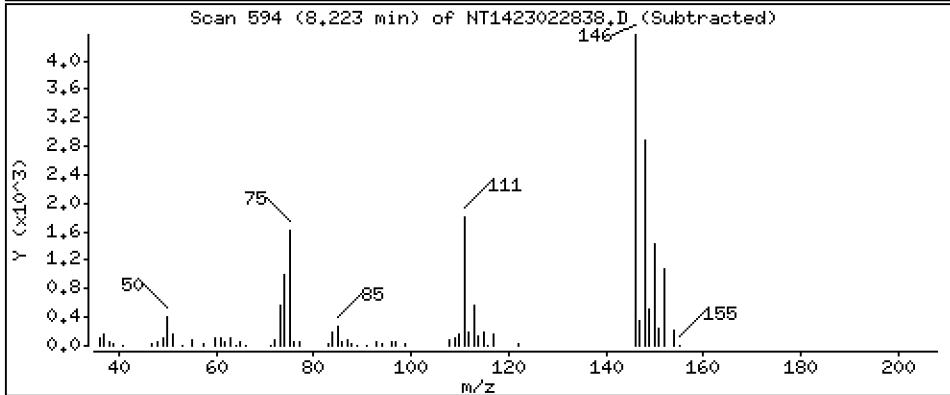
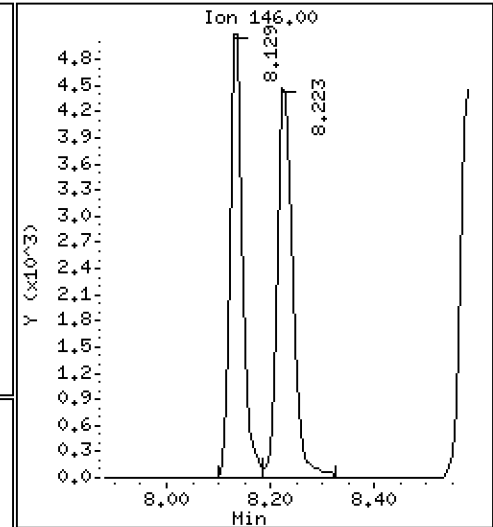
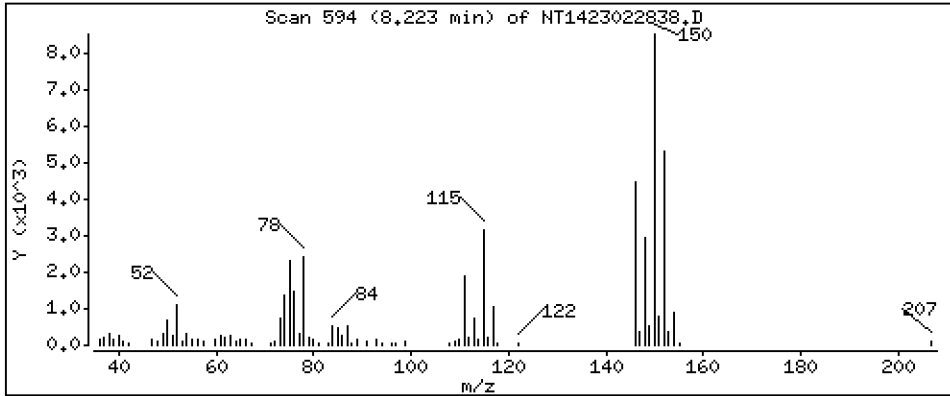
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,2139 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

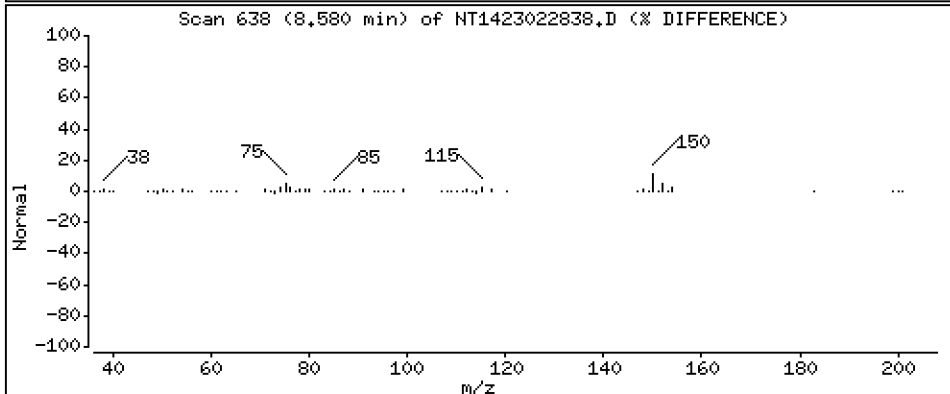
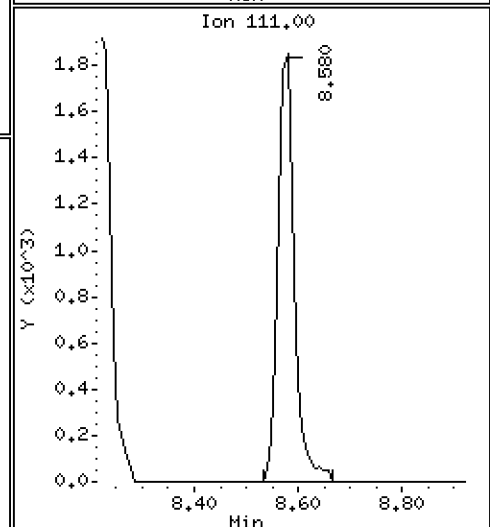
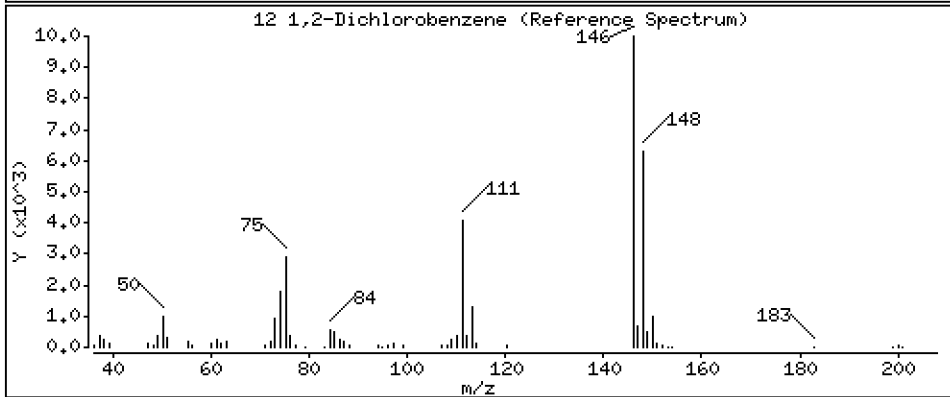
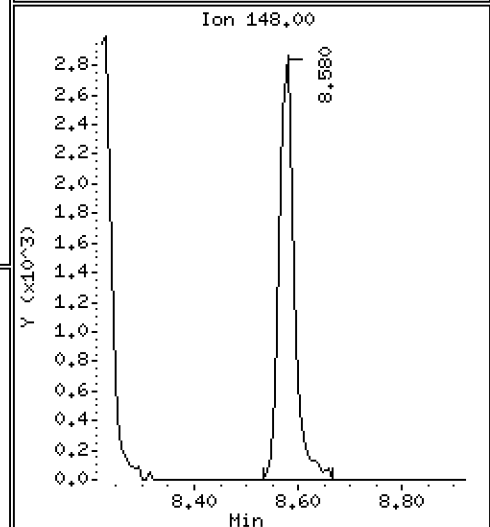
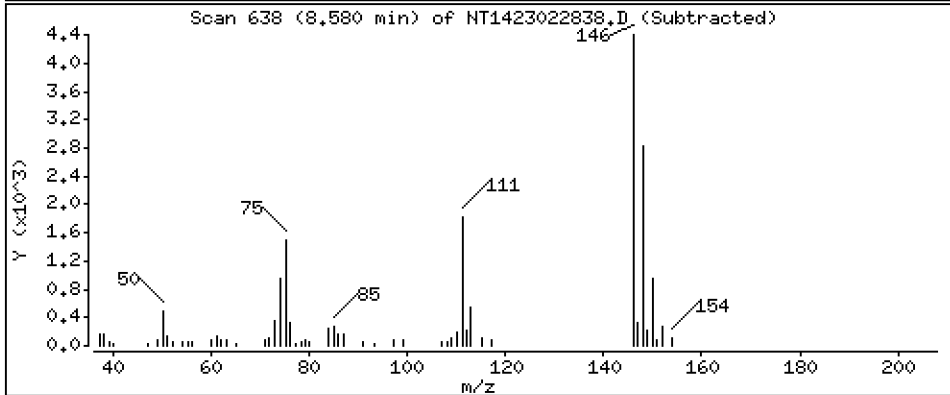
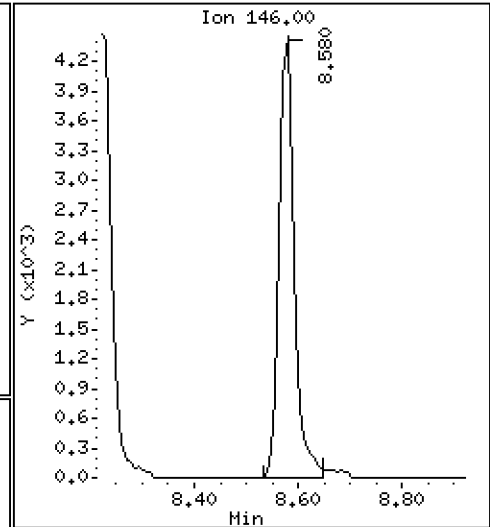
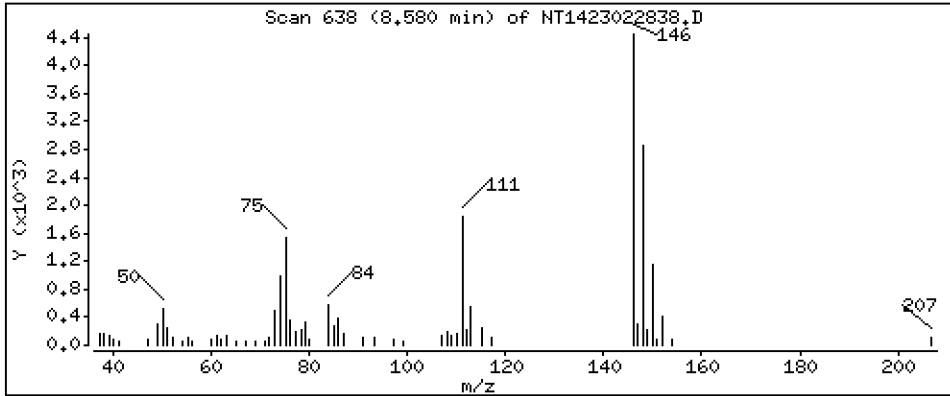
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2130 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

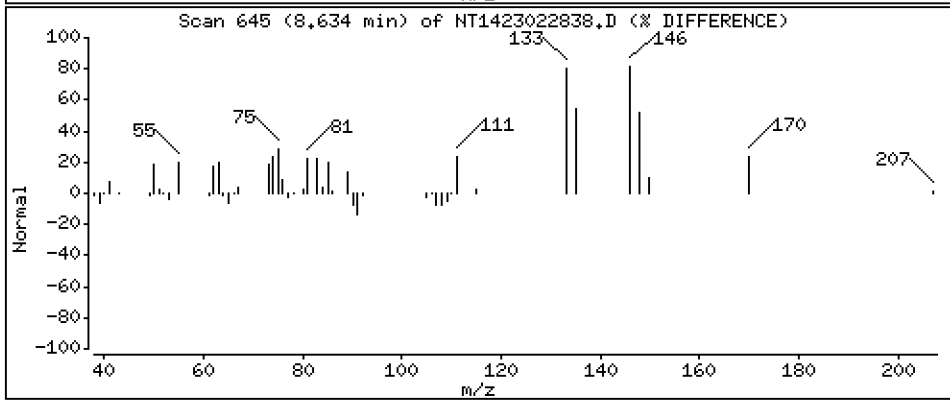
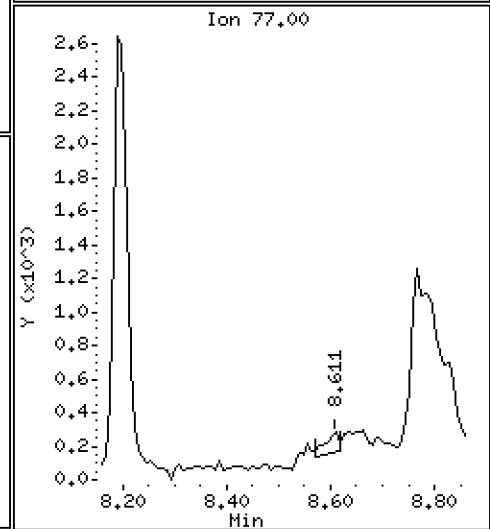
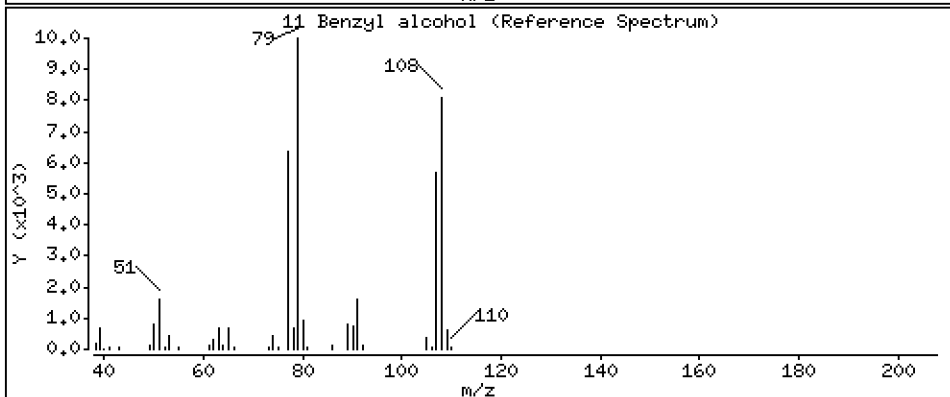
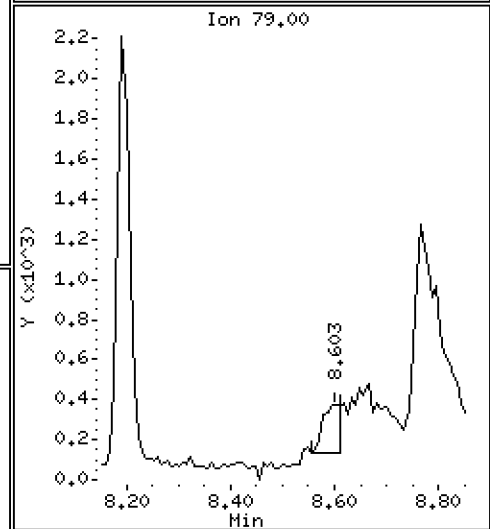
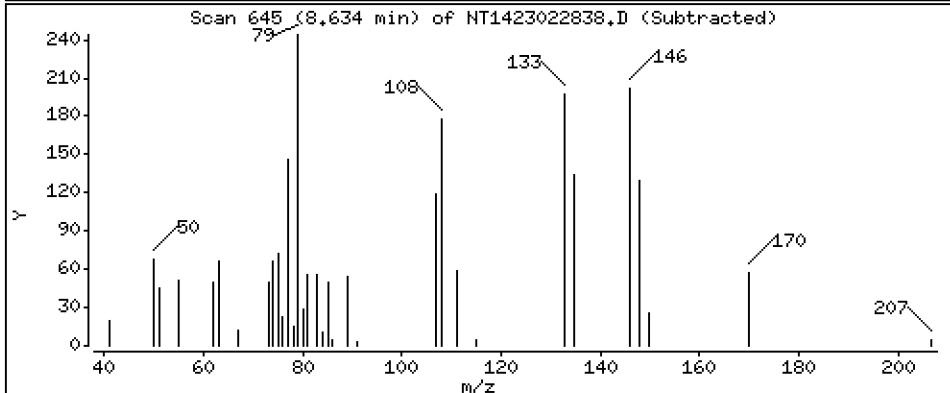
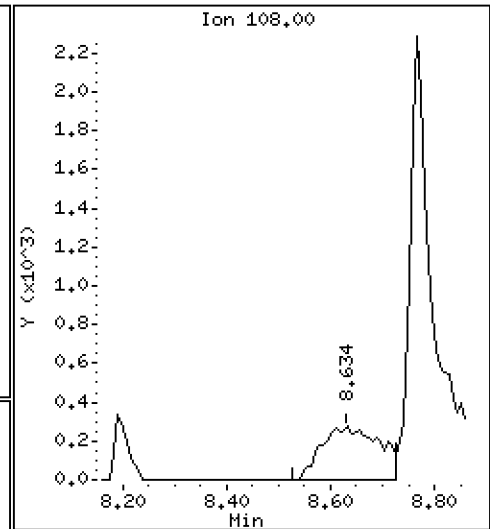
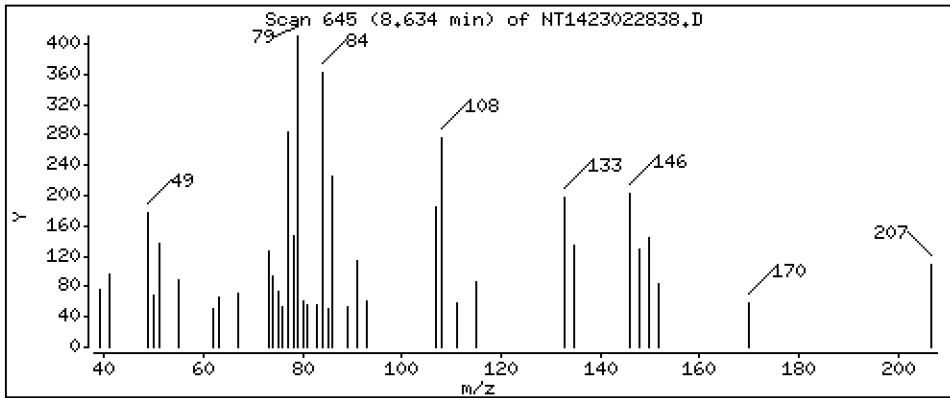
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.09424 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

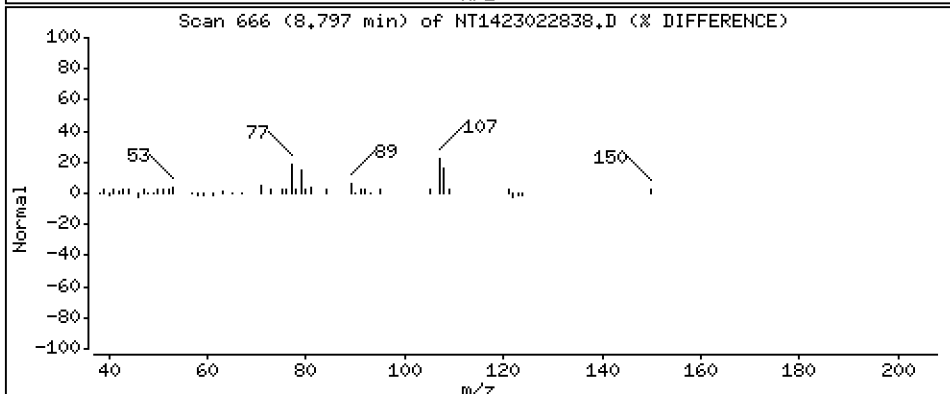
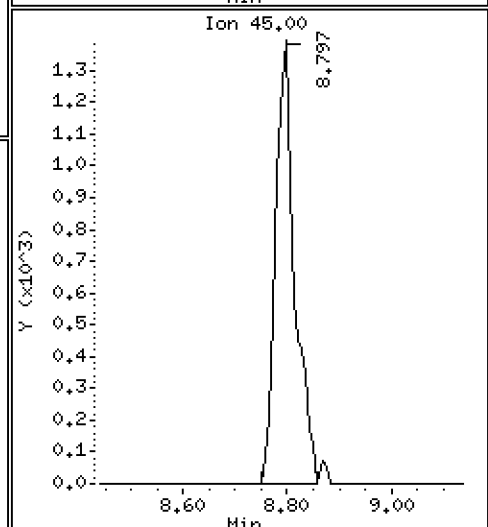
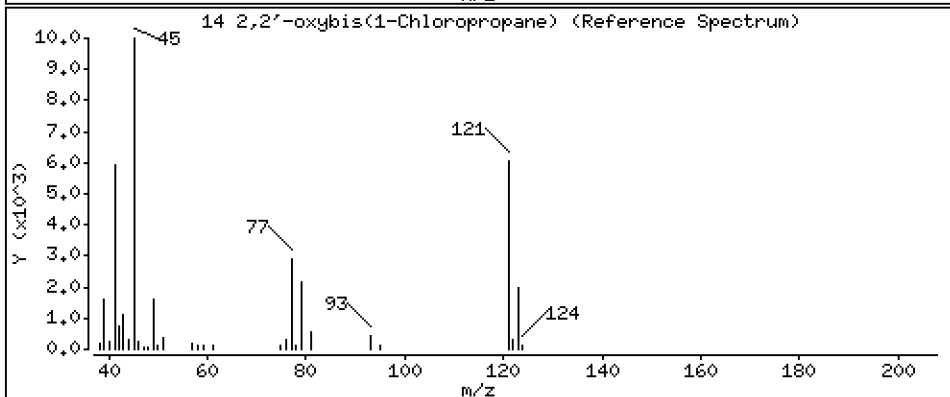
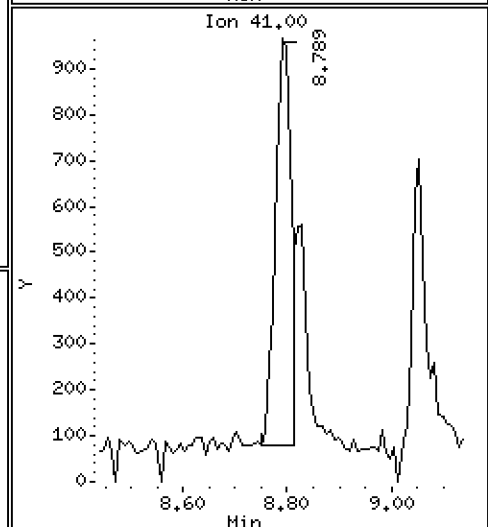
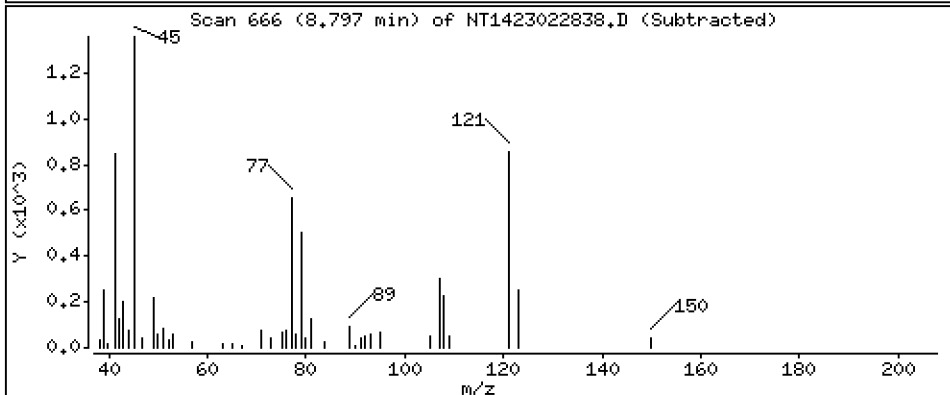
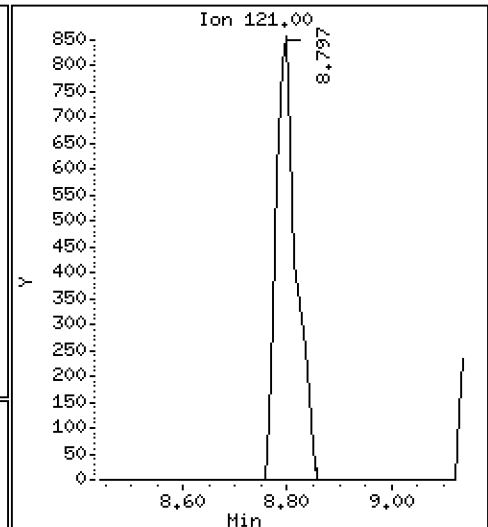
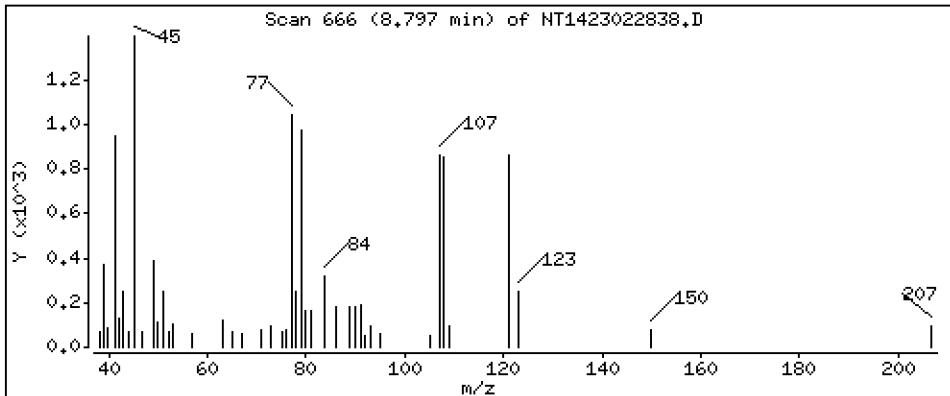
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 0,2101 ug/mL





Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

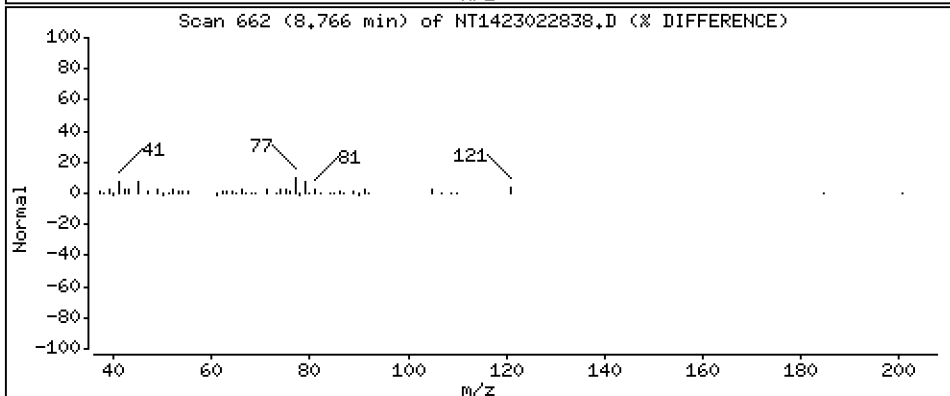
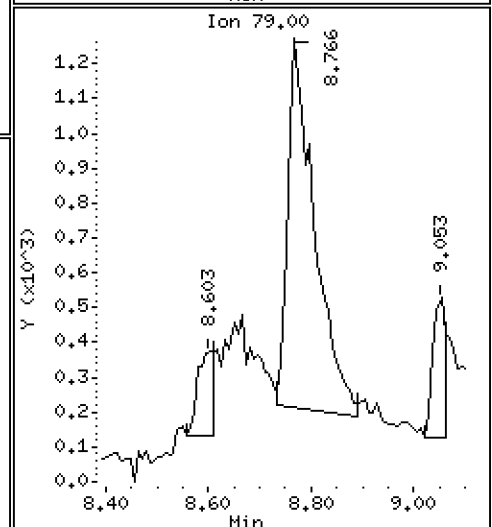
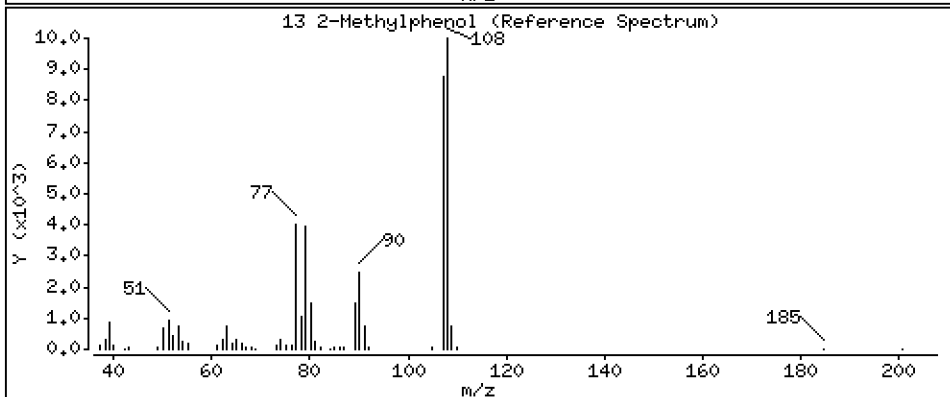
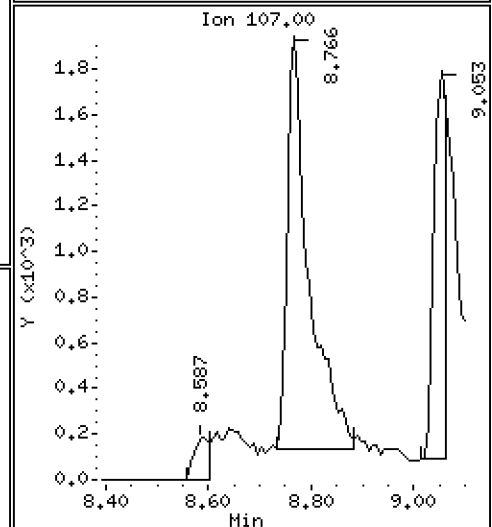
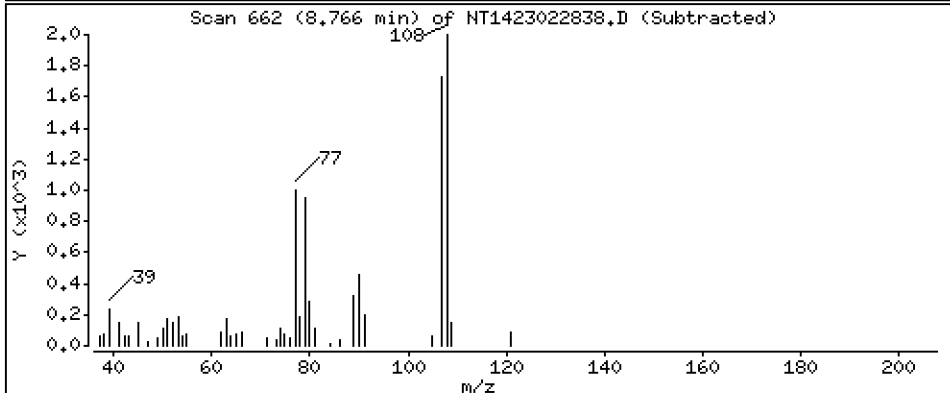
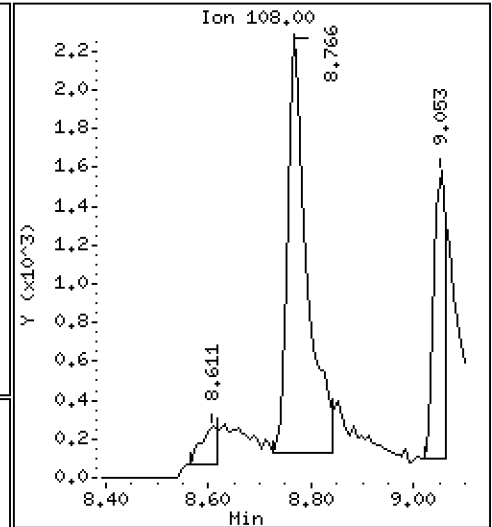
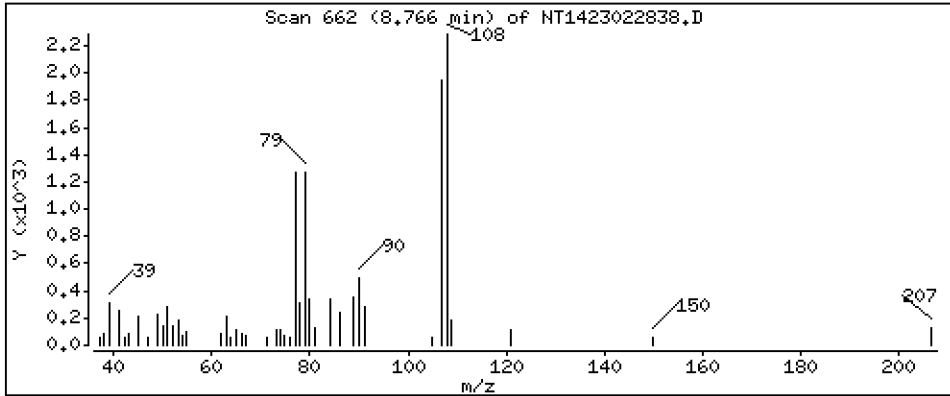
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.1718 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

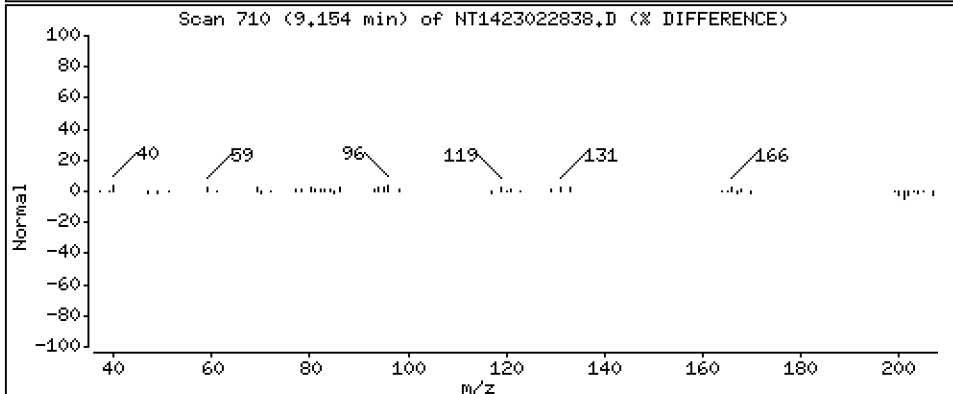
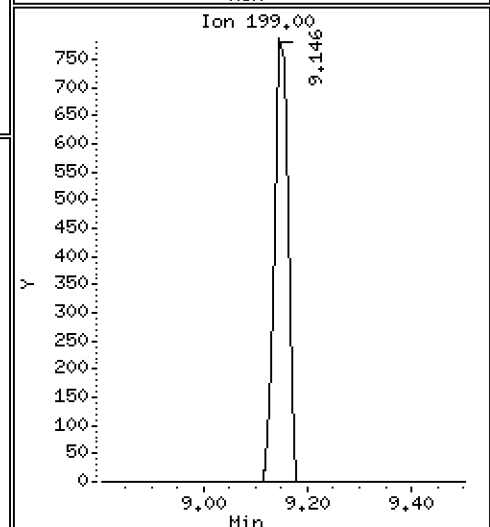
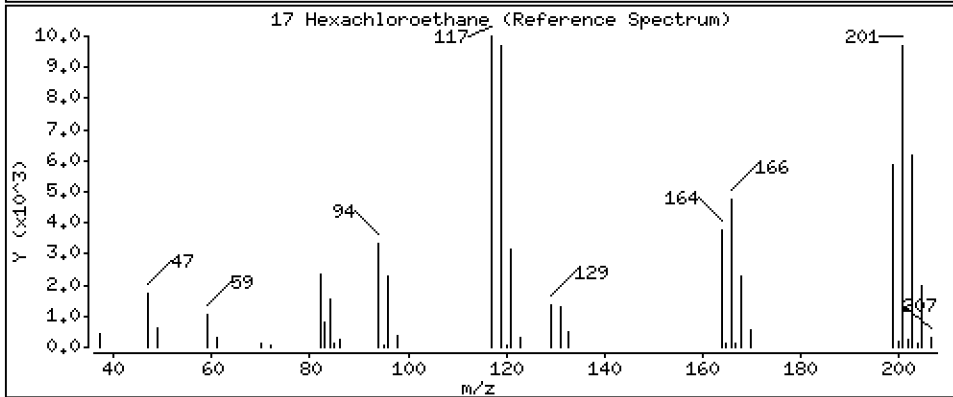
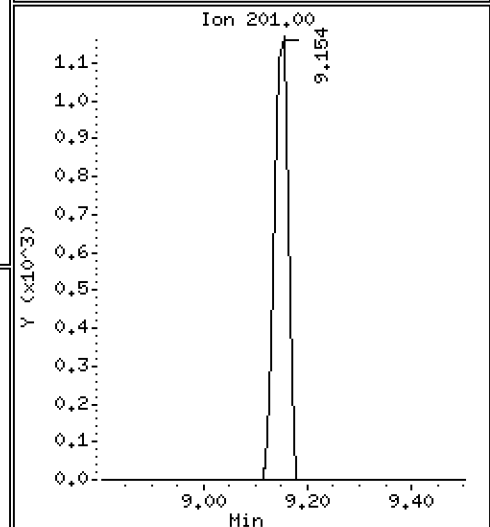
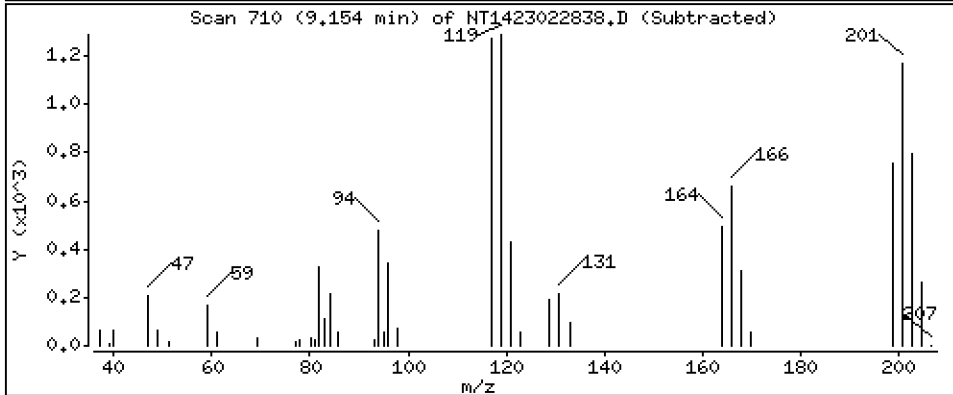
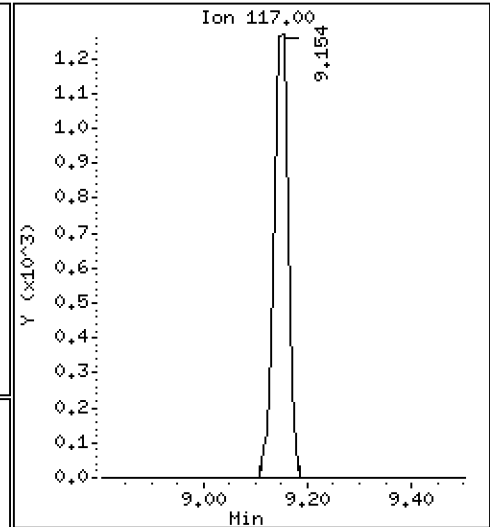
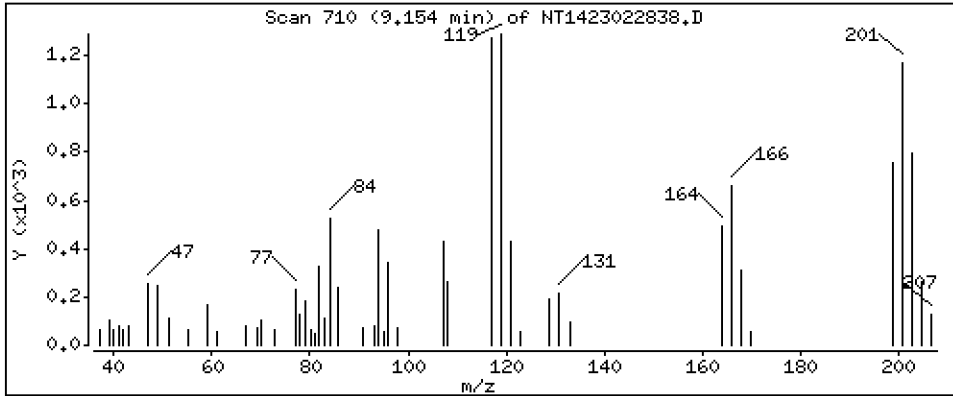
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 0.1471 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

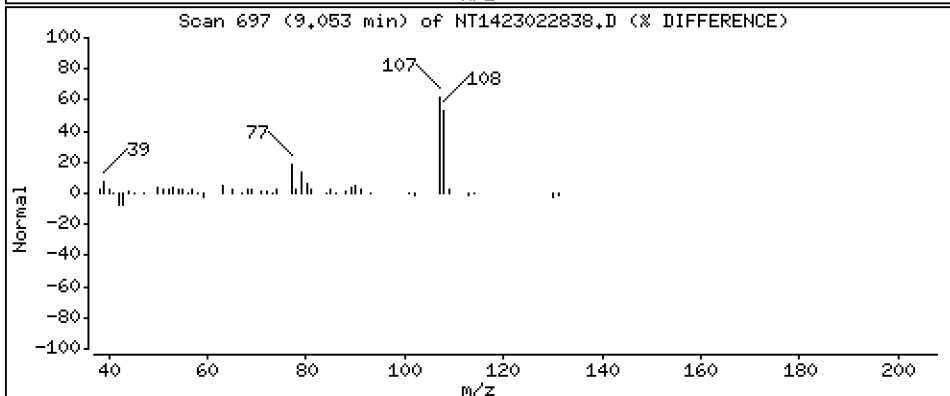
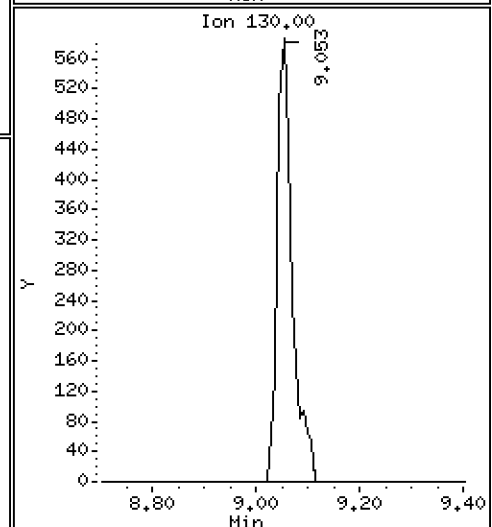
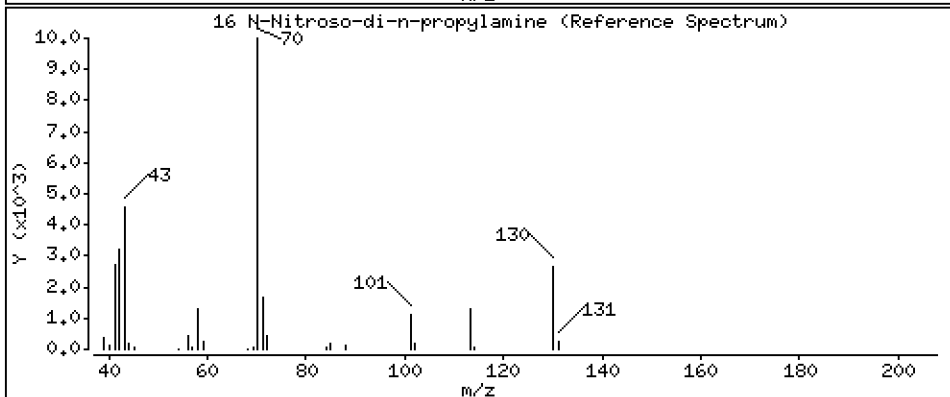
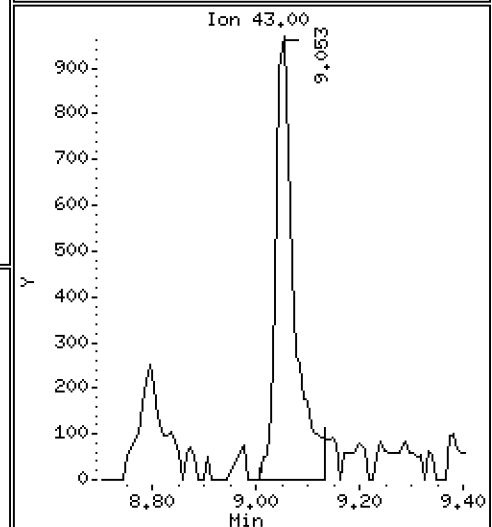
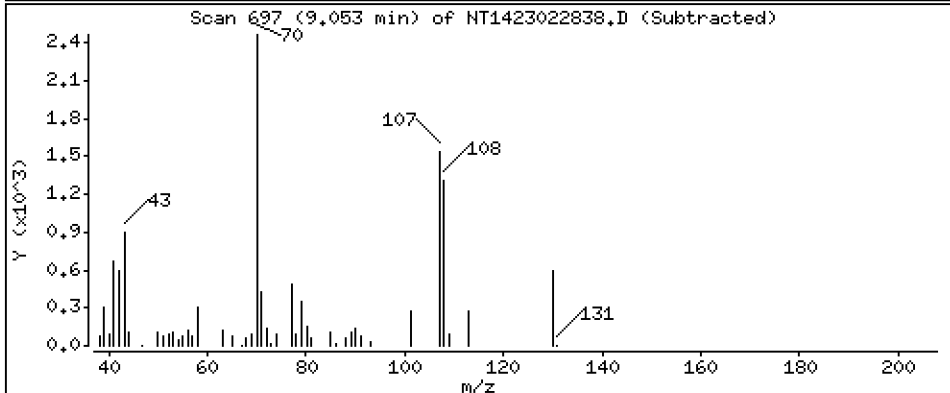
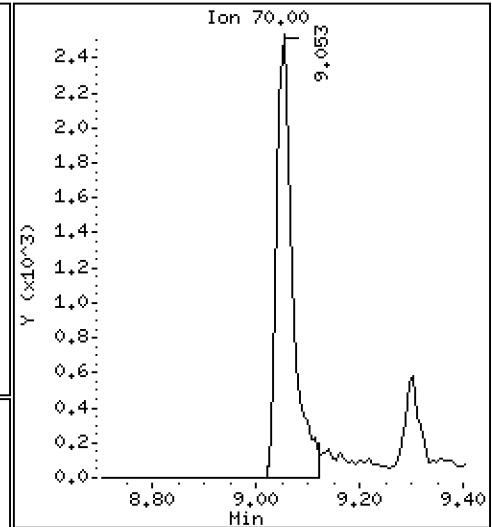
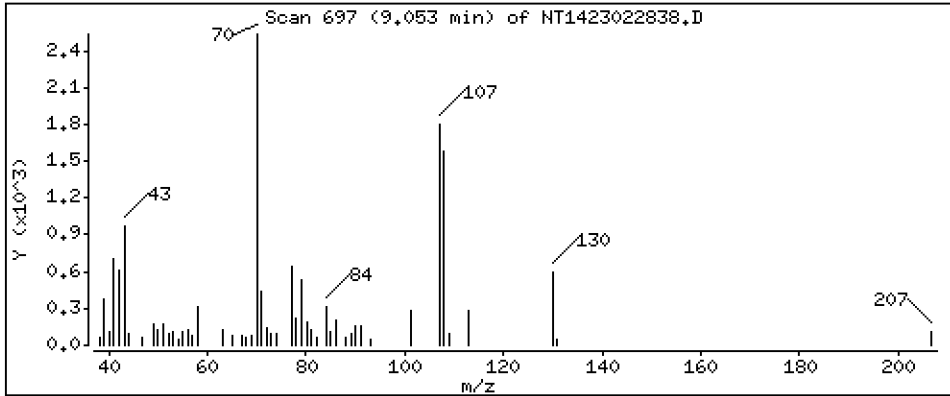
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,2084 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

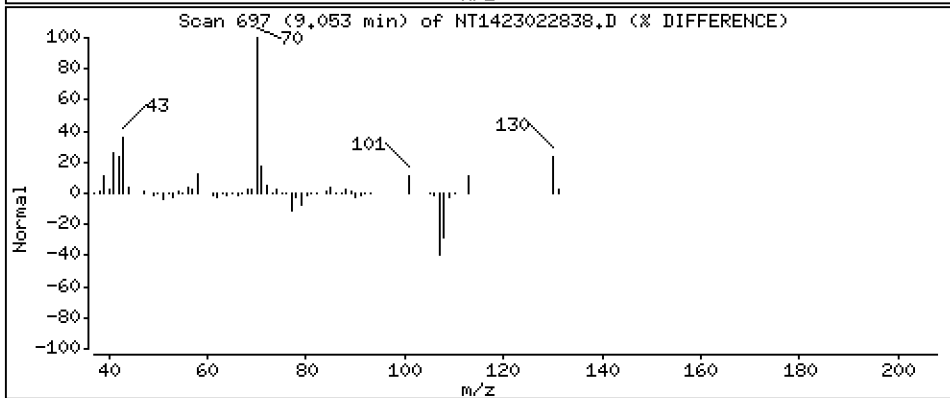
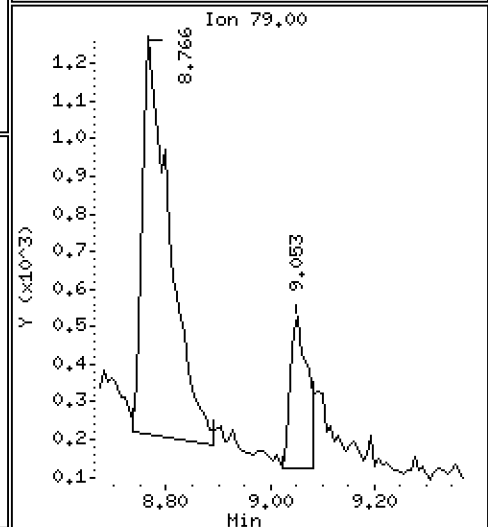
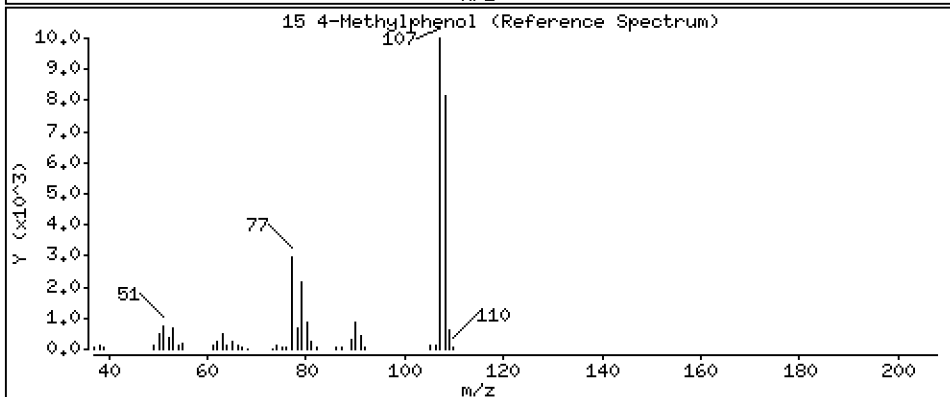
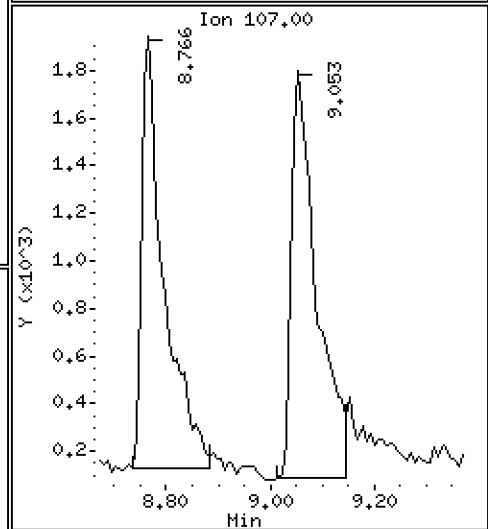
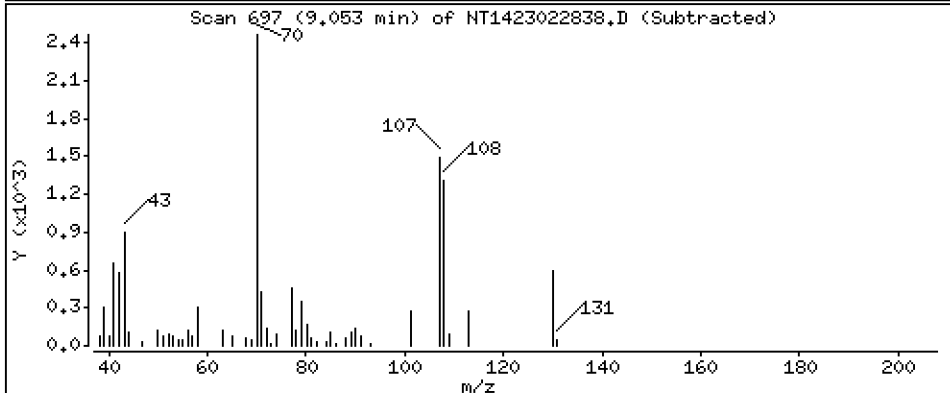
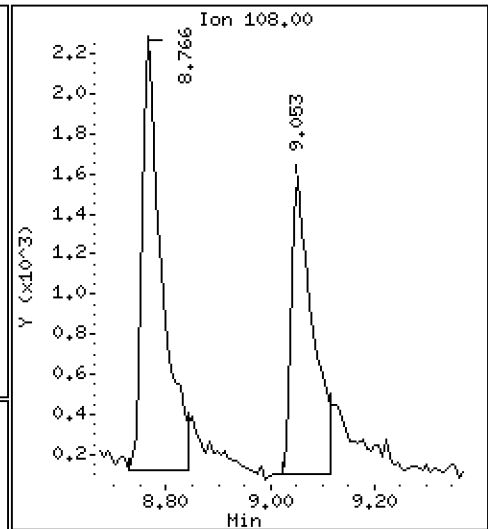
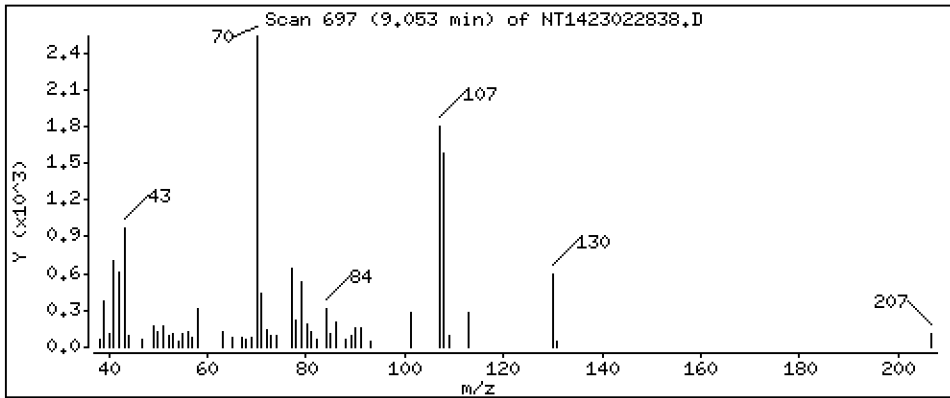
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1119 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

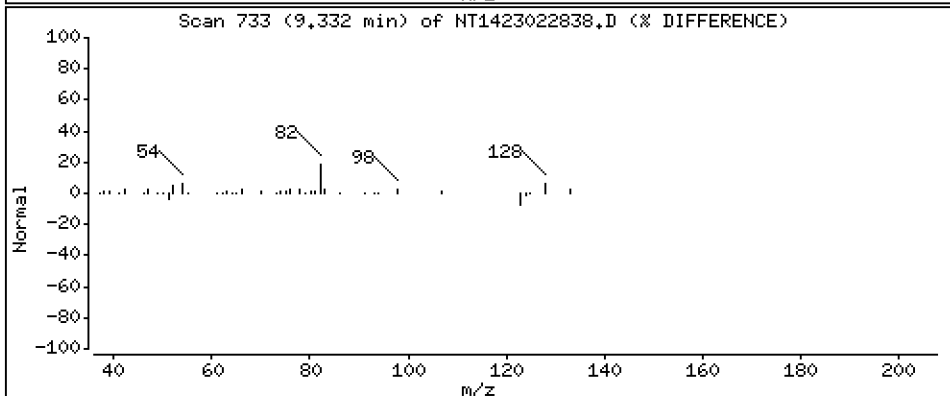
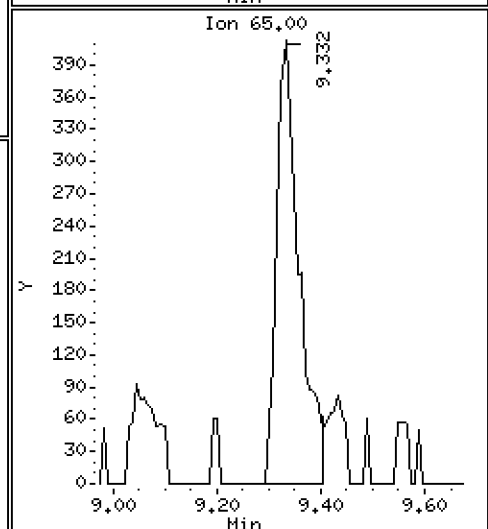
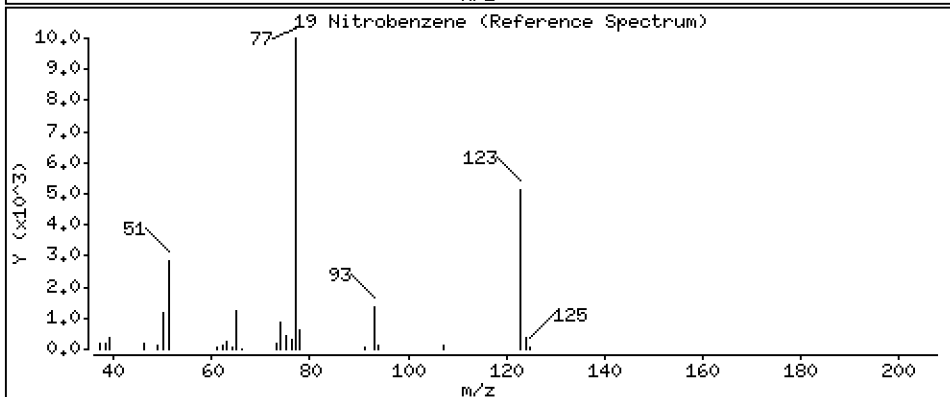
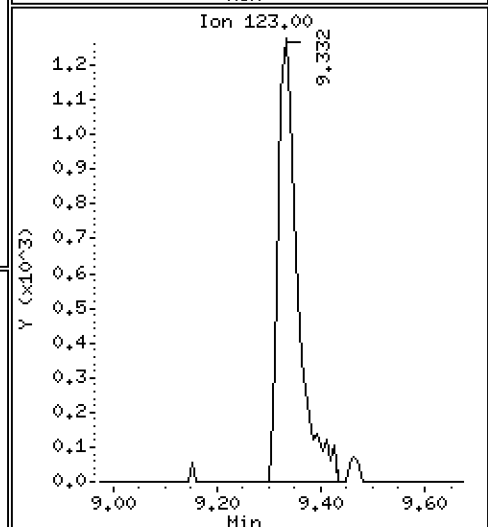
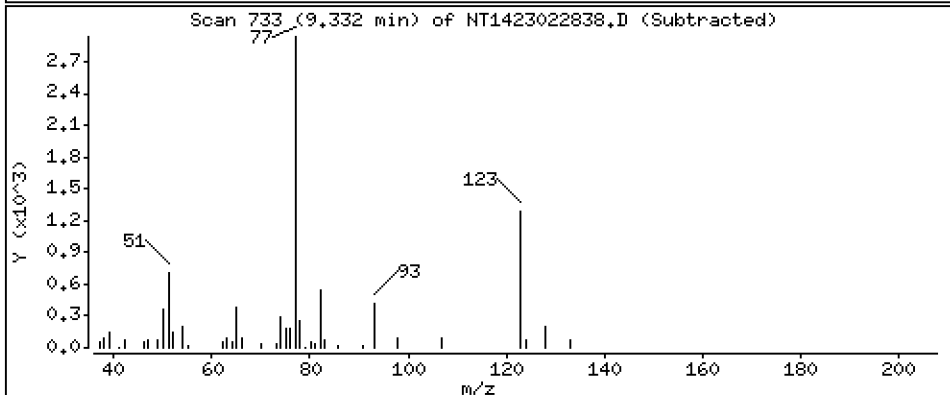
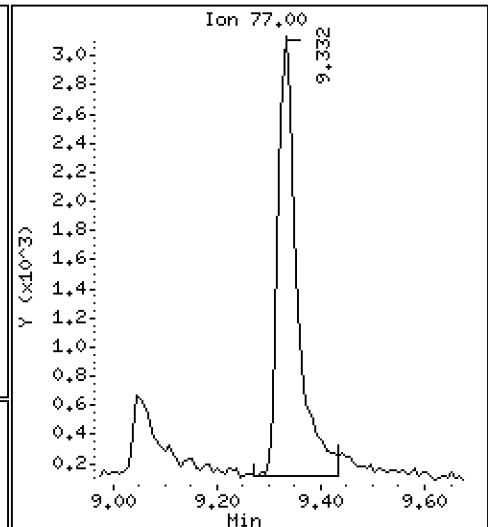
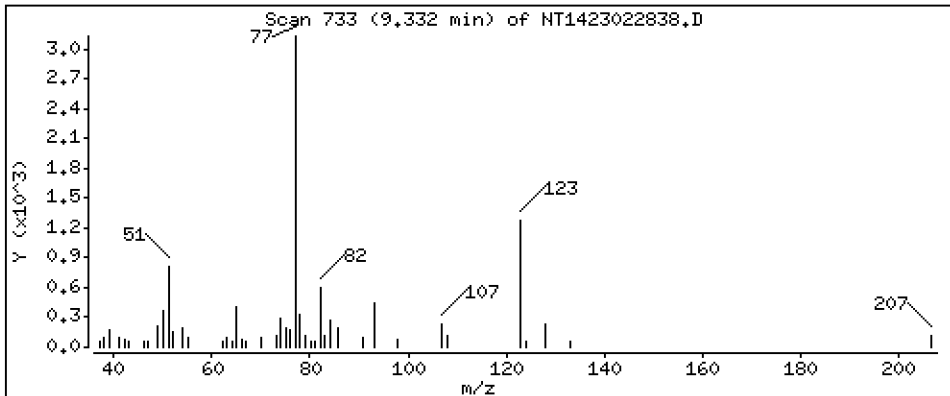
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

19 Nitrobenzene

Concentration: 0.1999 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

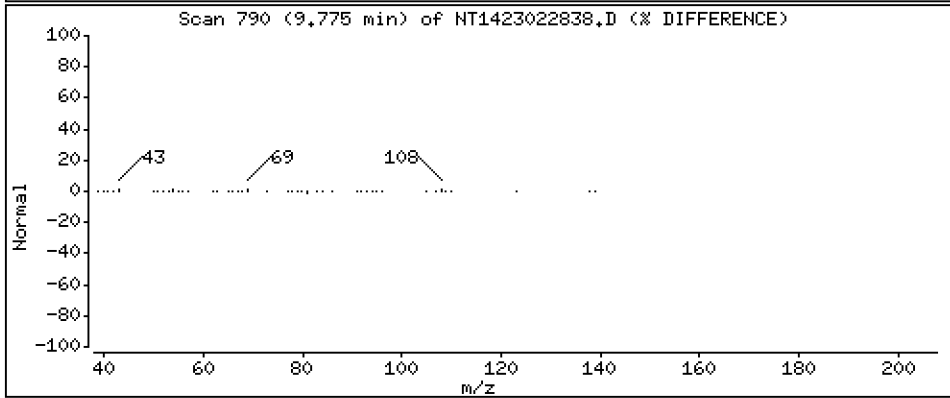
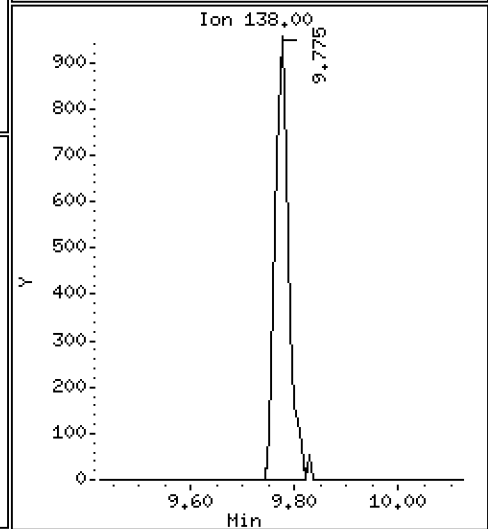
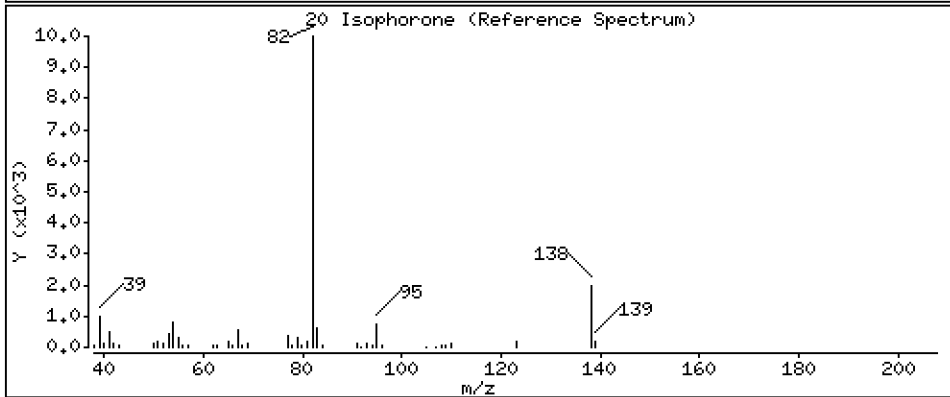
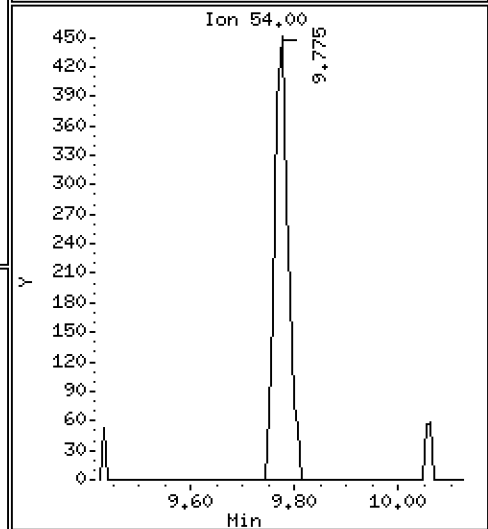
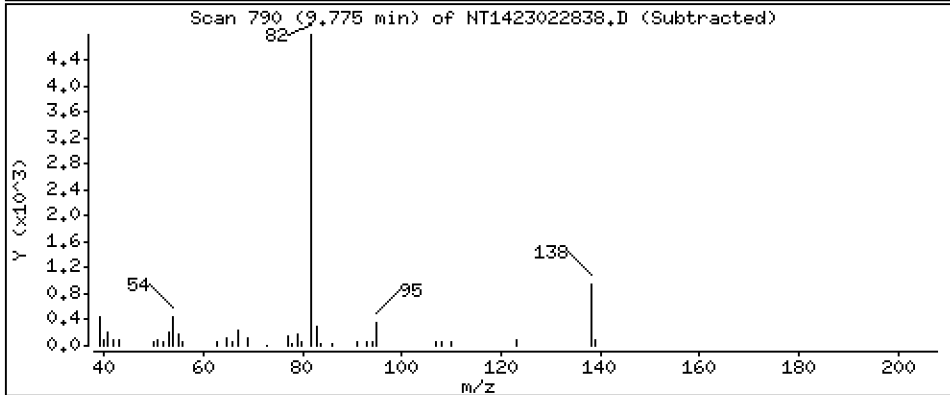
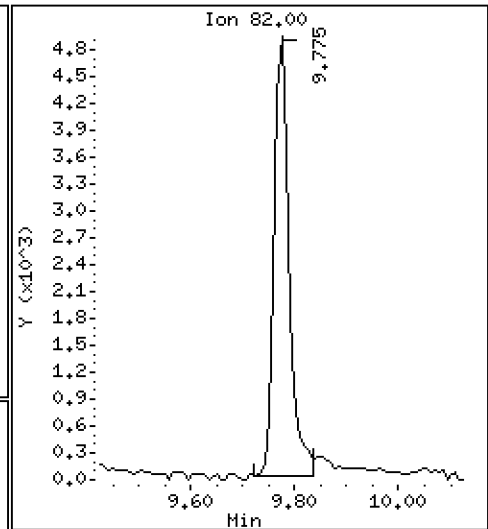
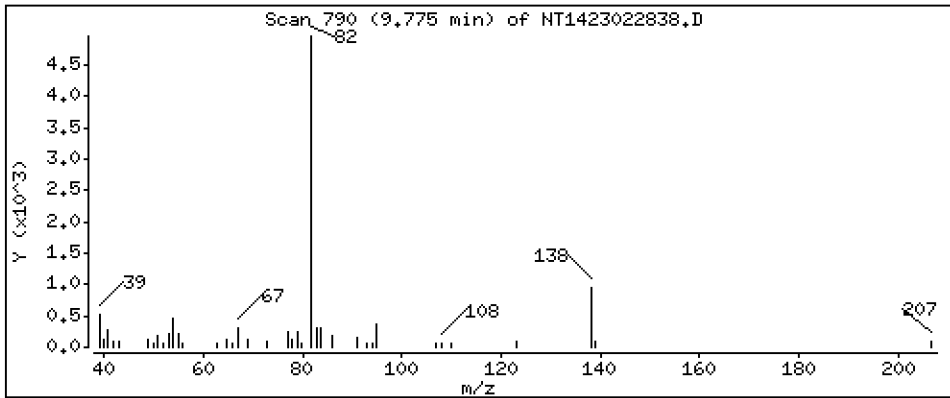
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 0,1578 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

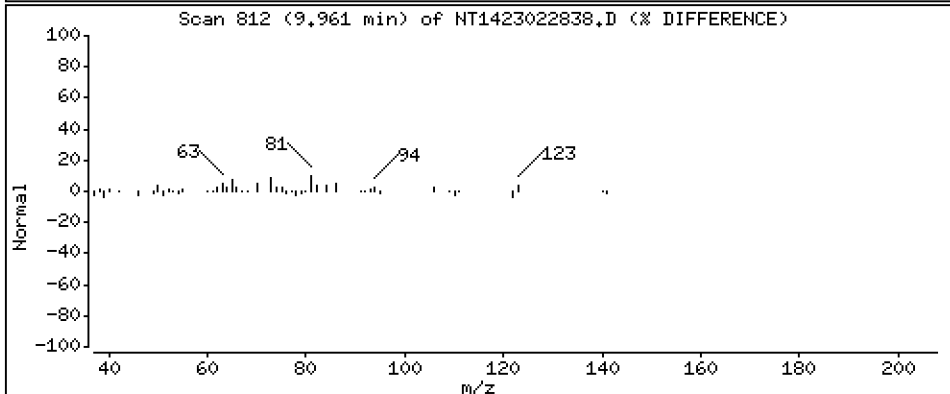
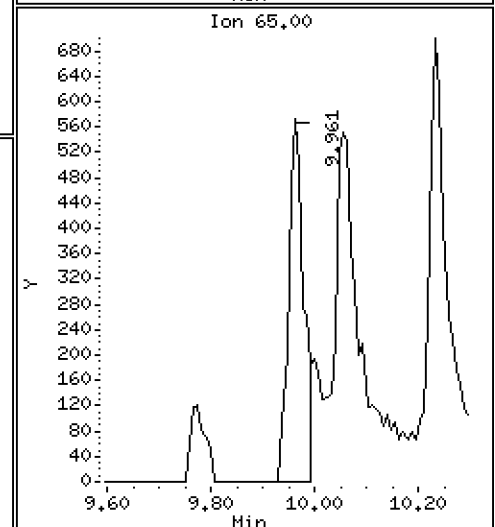
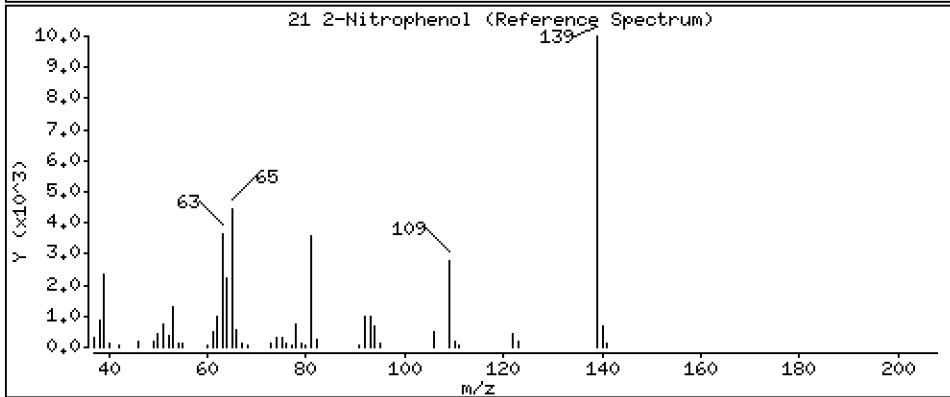
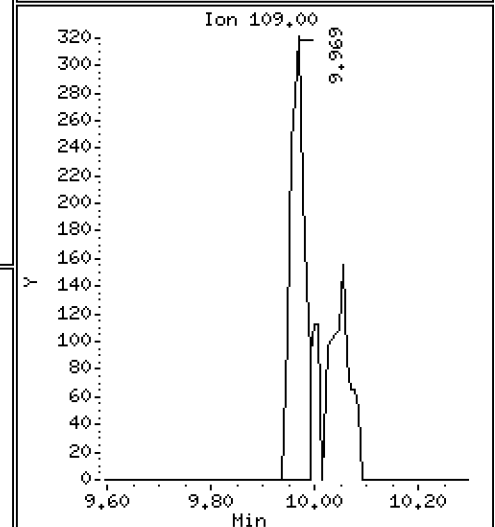
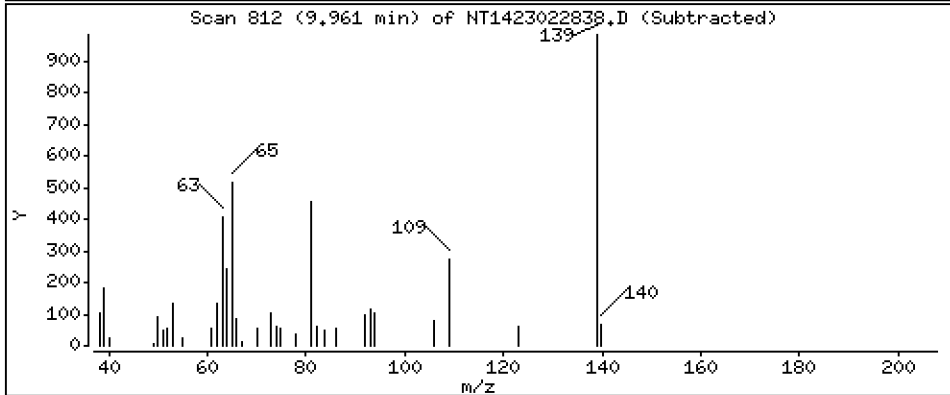
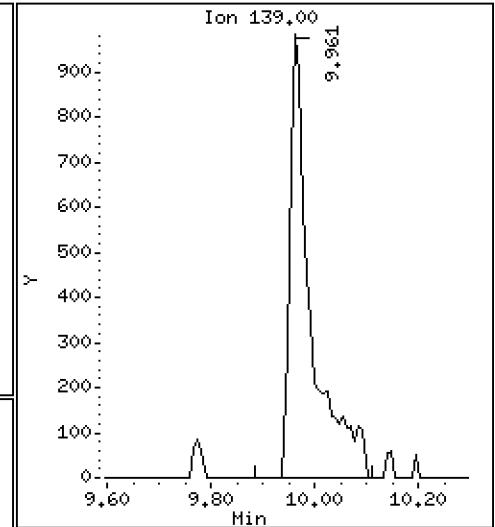
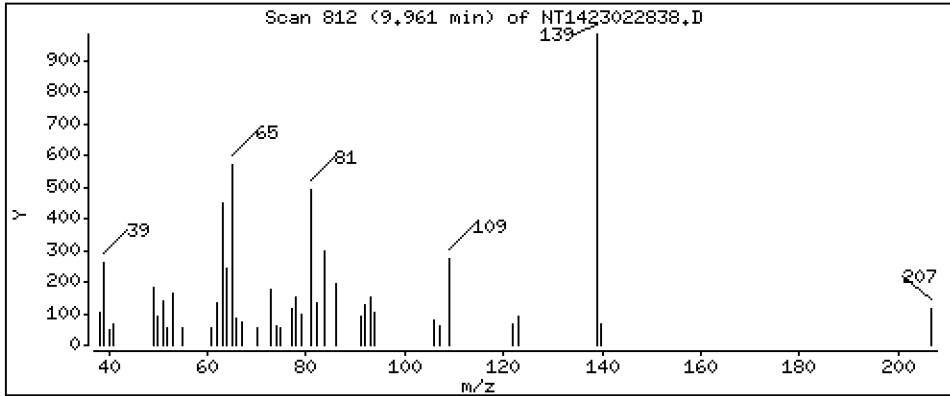
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,1547 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

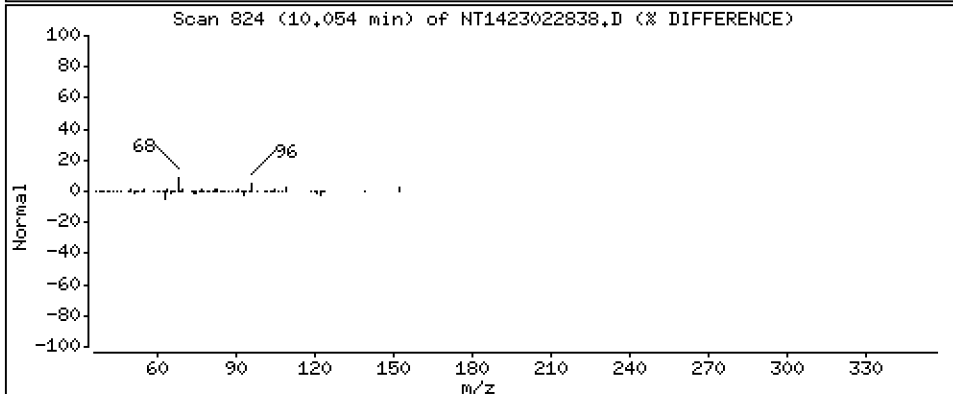
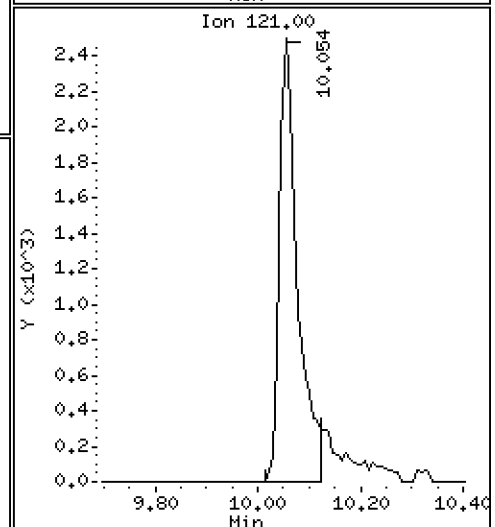
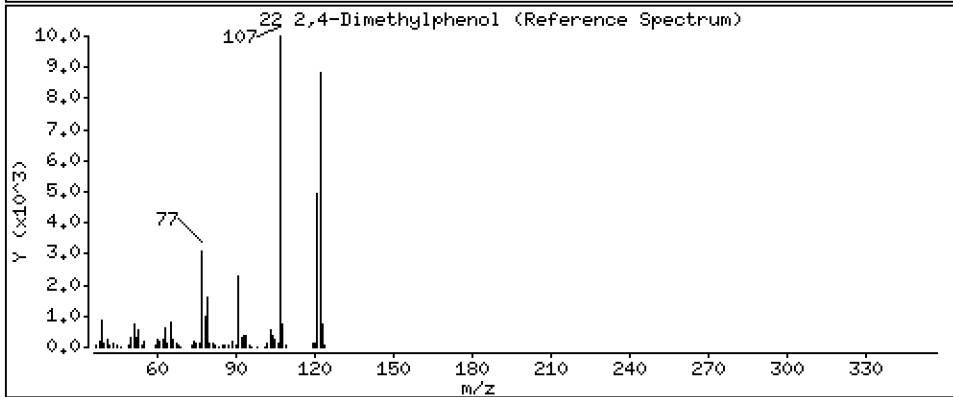
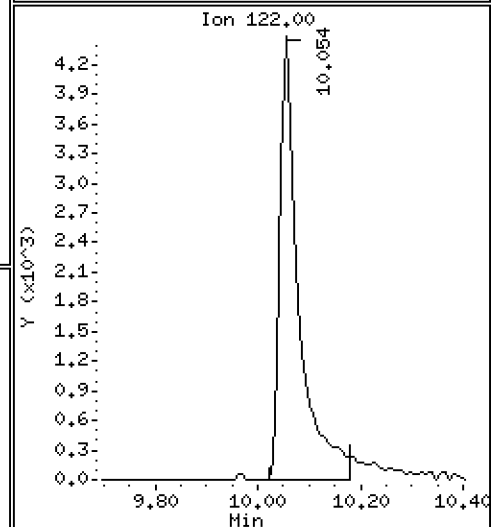
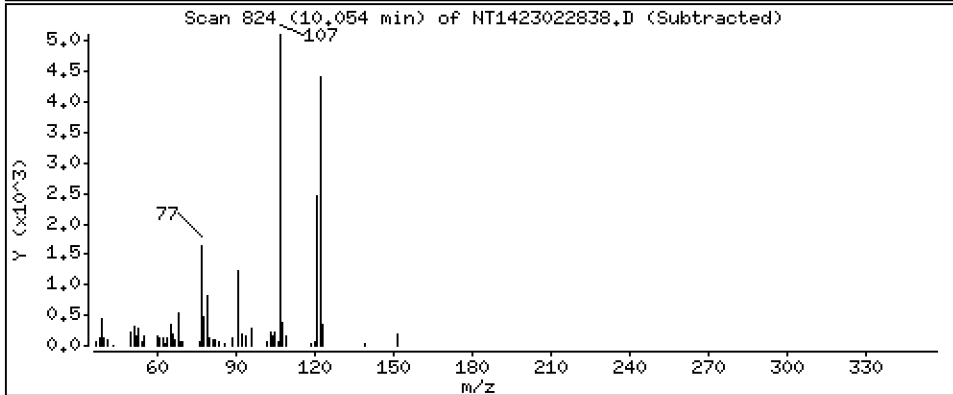
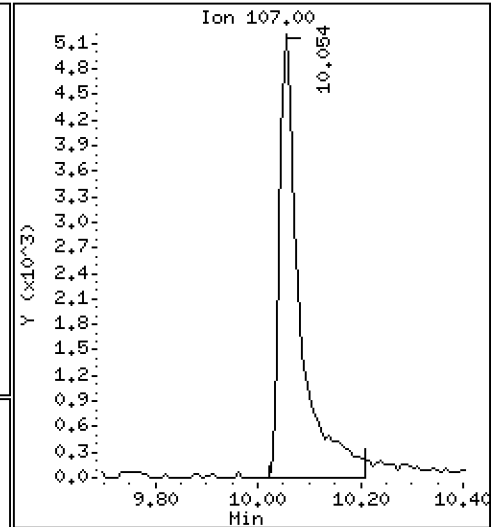
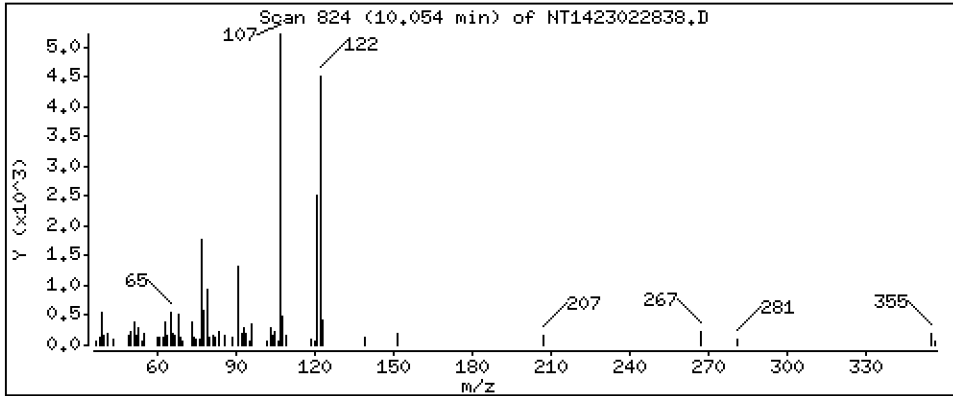
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,4027 ug/mL





Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

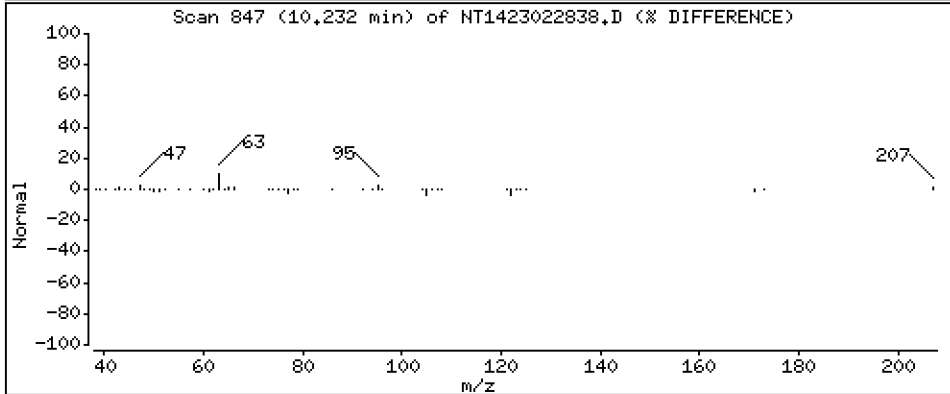
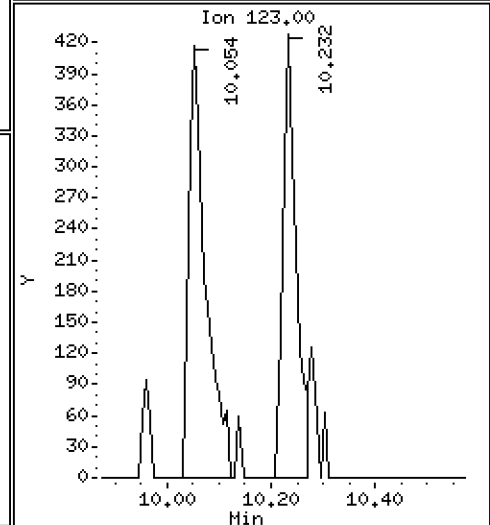
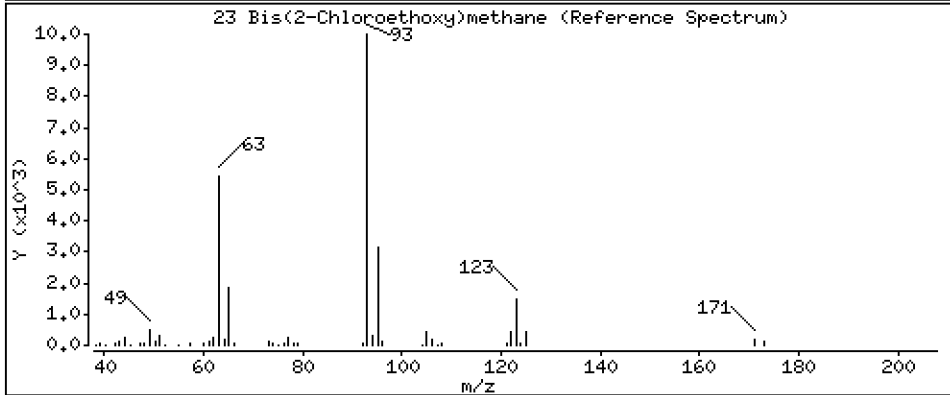
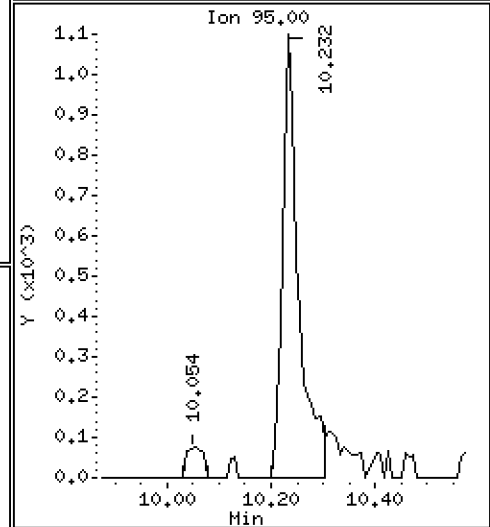
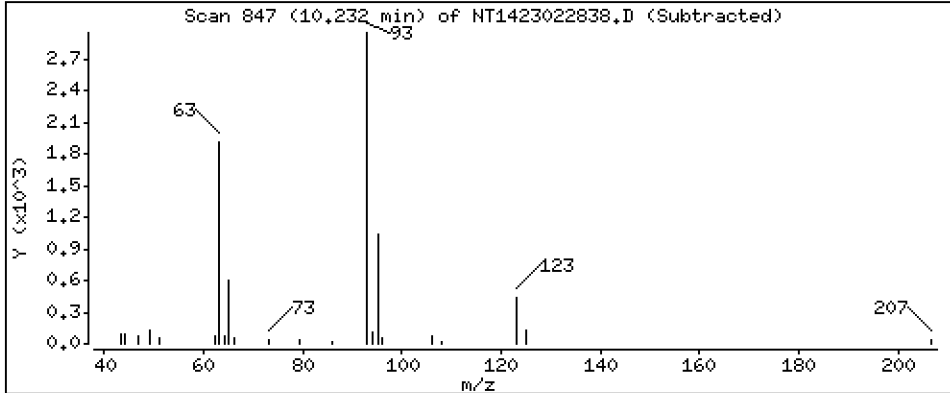
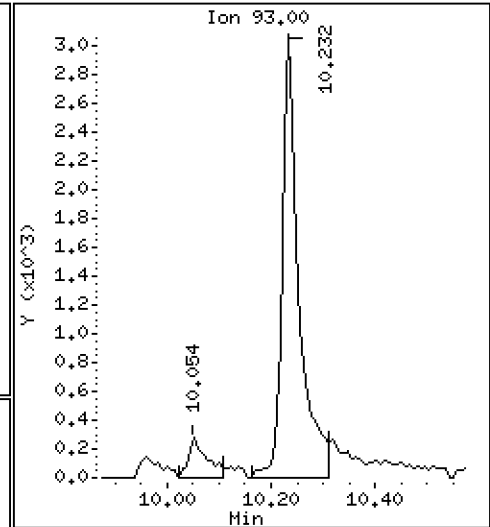
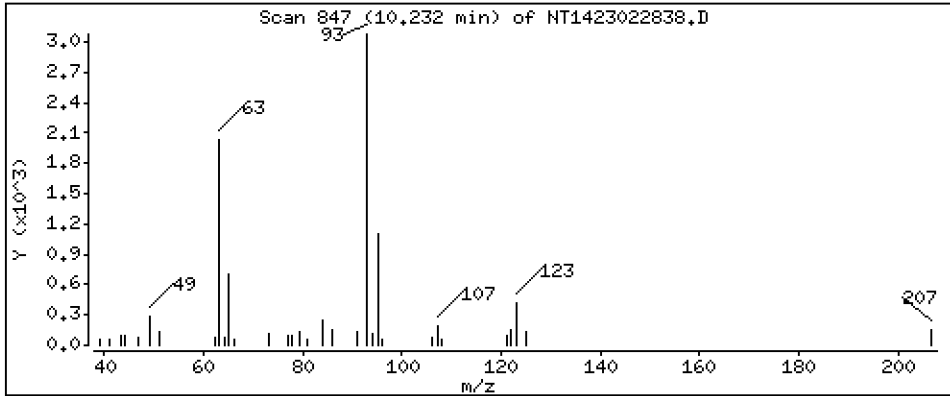
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 0.1833 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

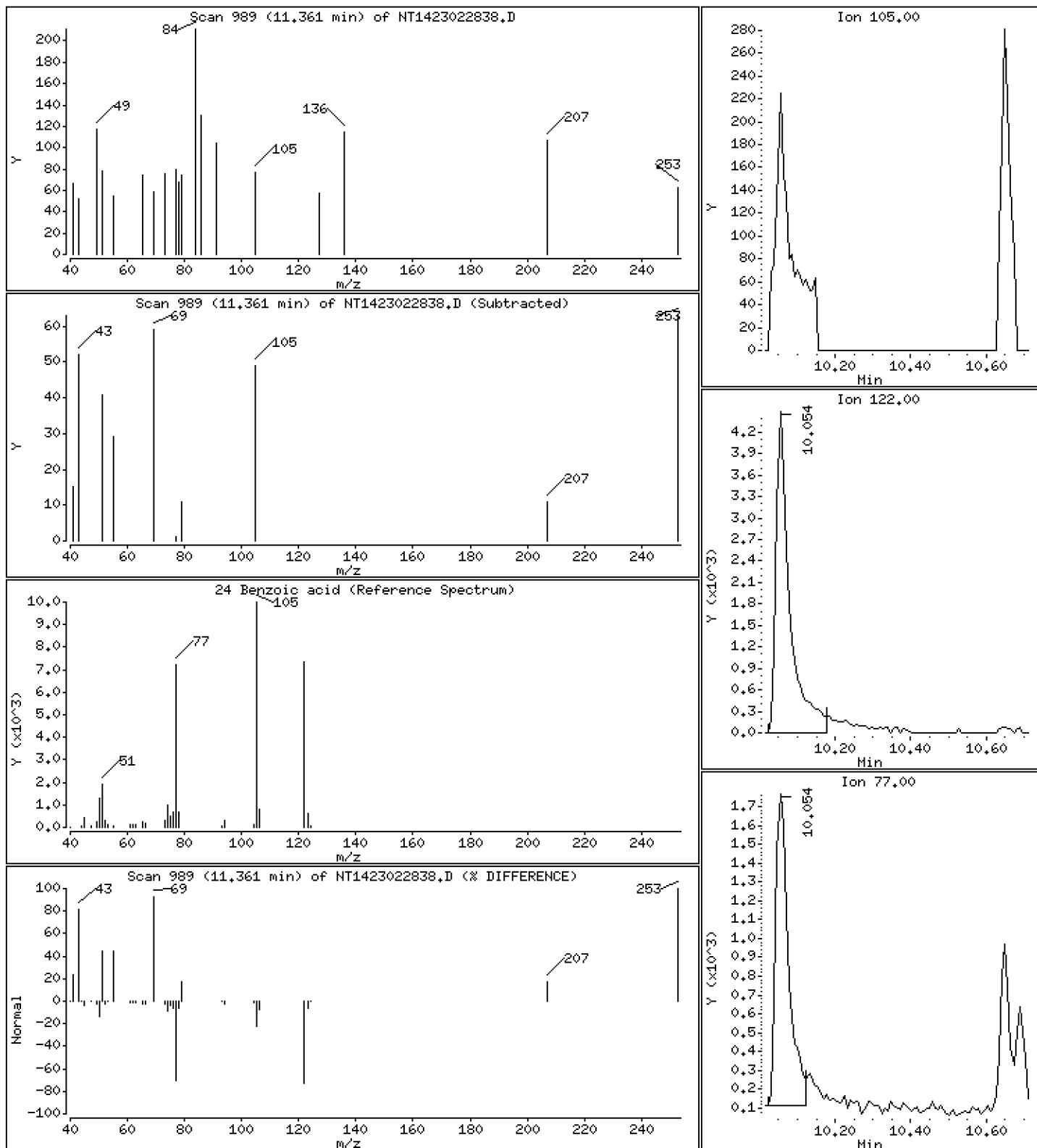
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.08173 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

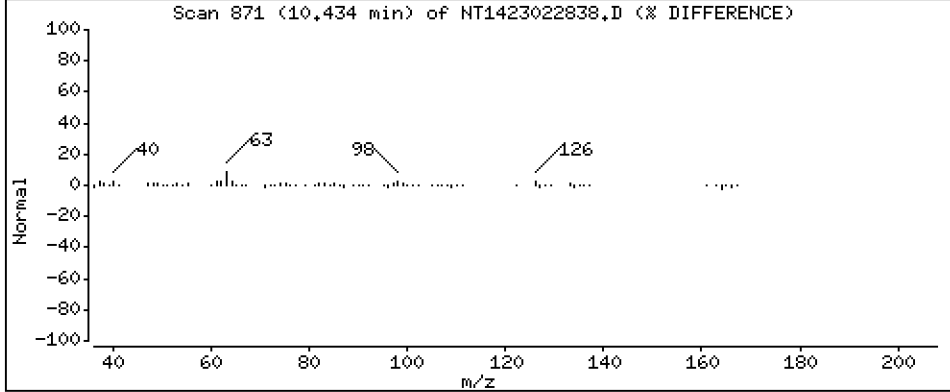
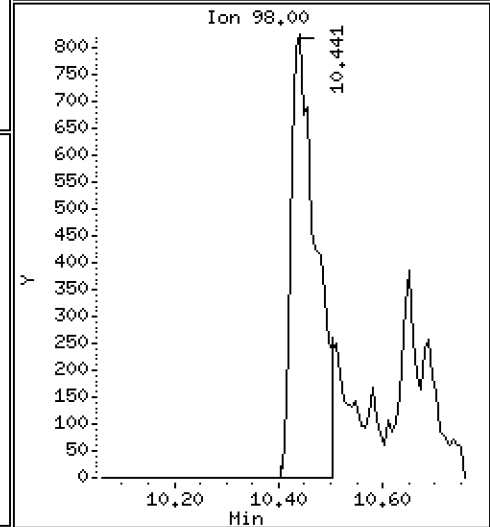
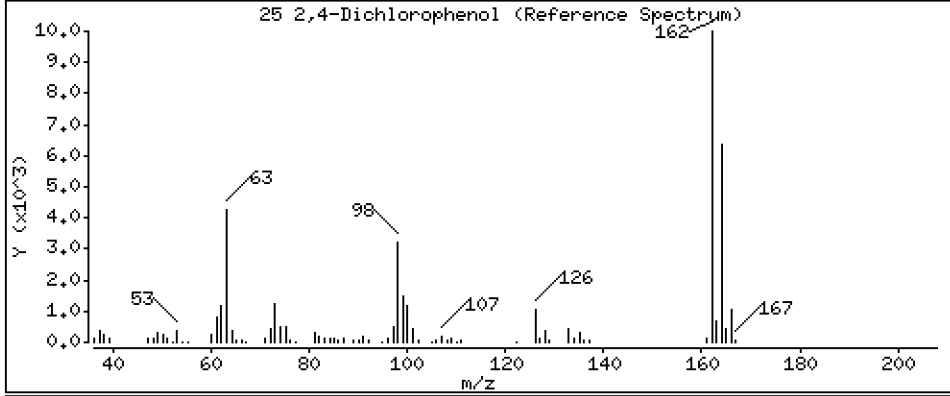
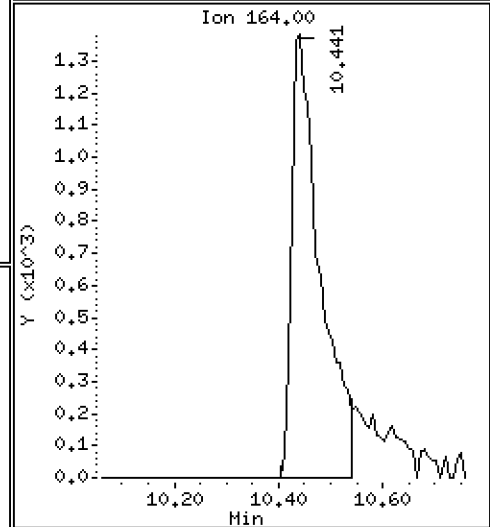
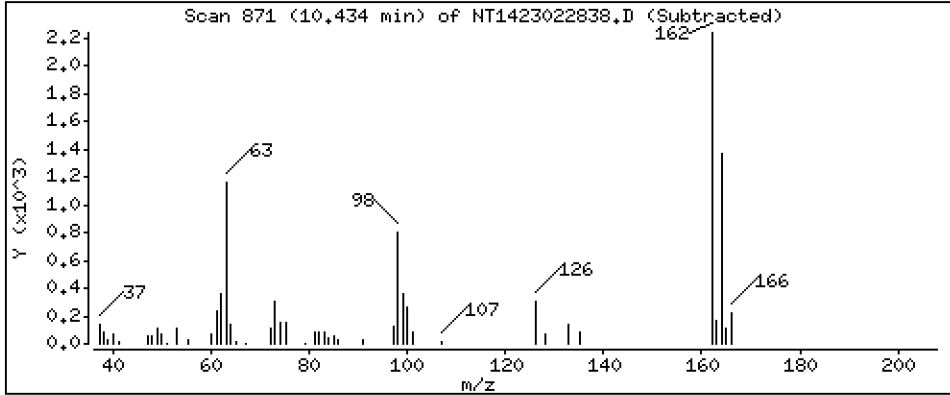
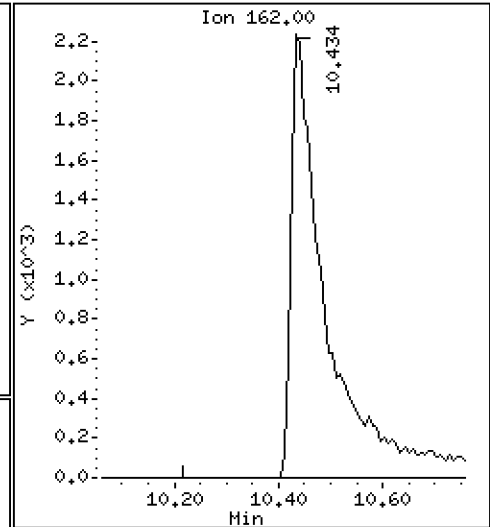
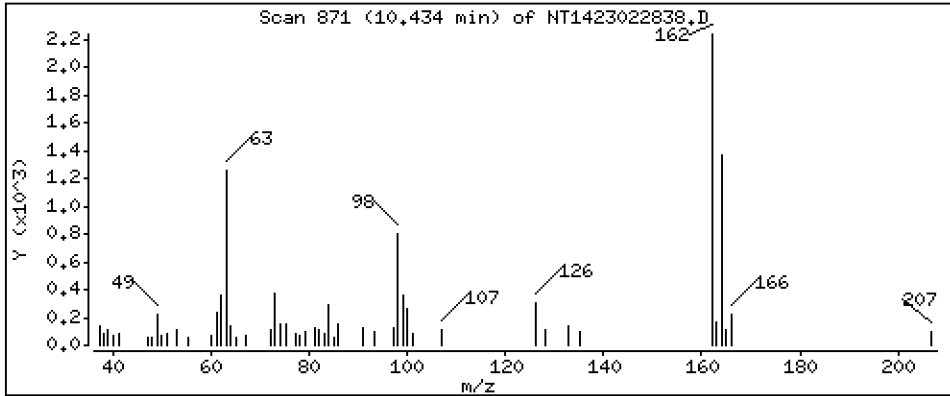
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,3194 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

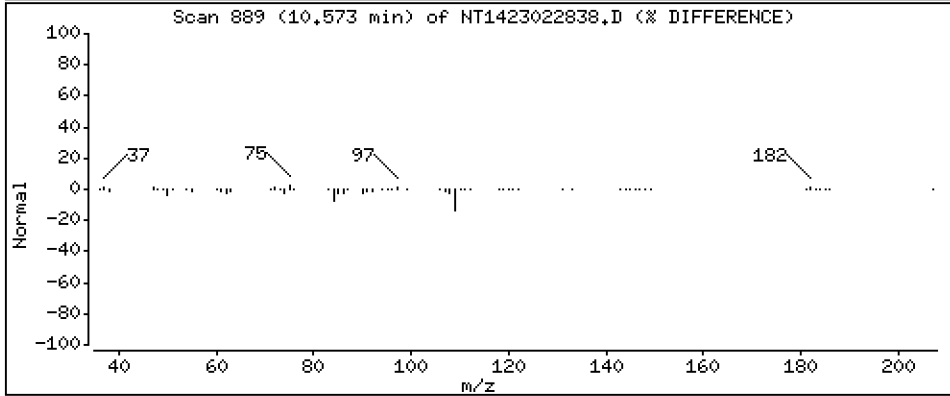
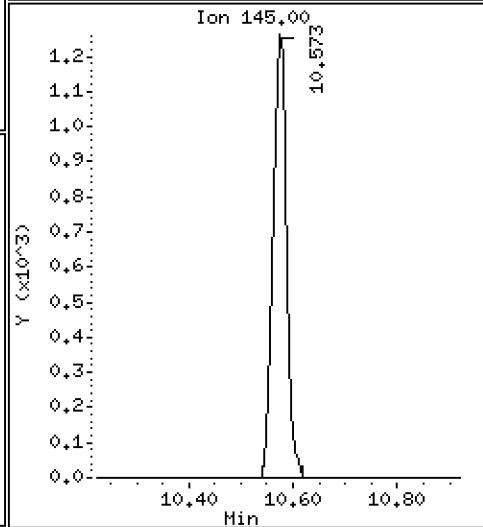
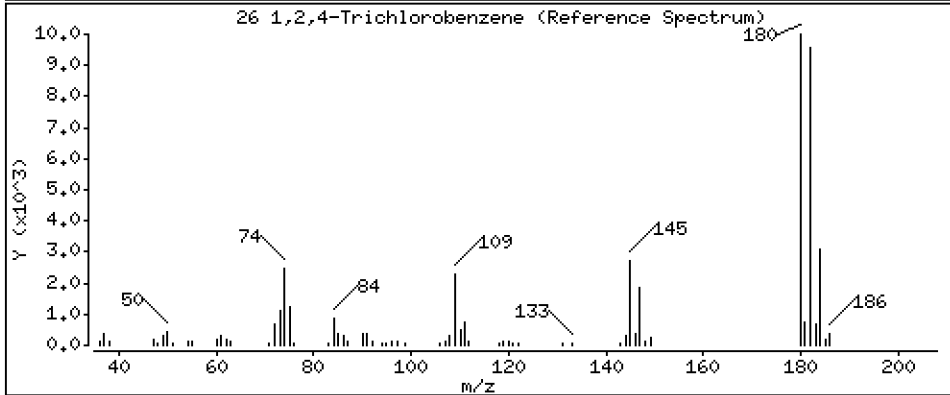
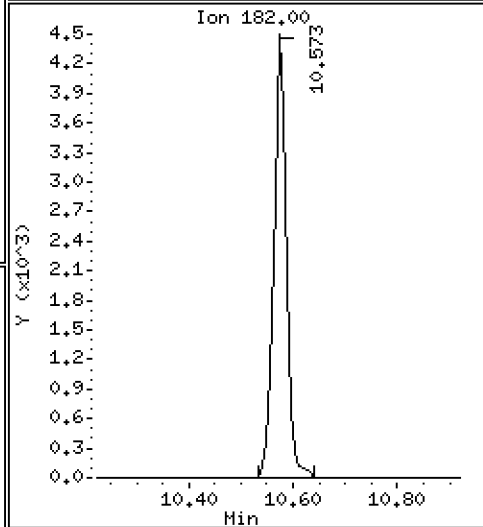
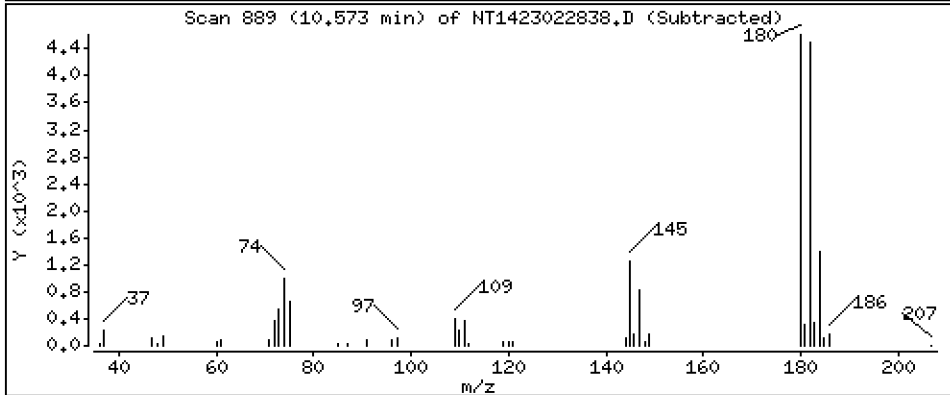
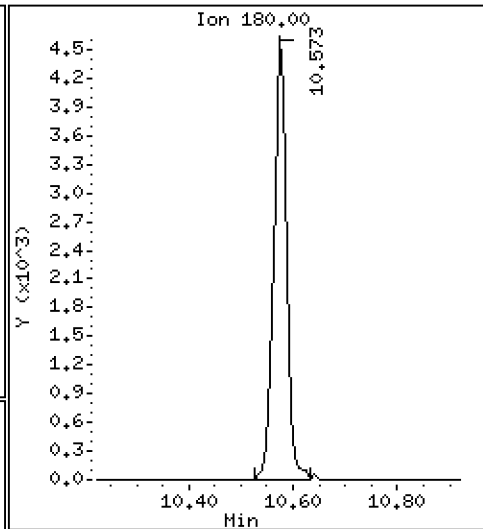
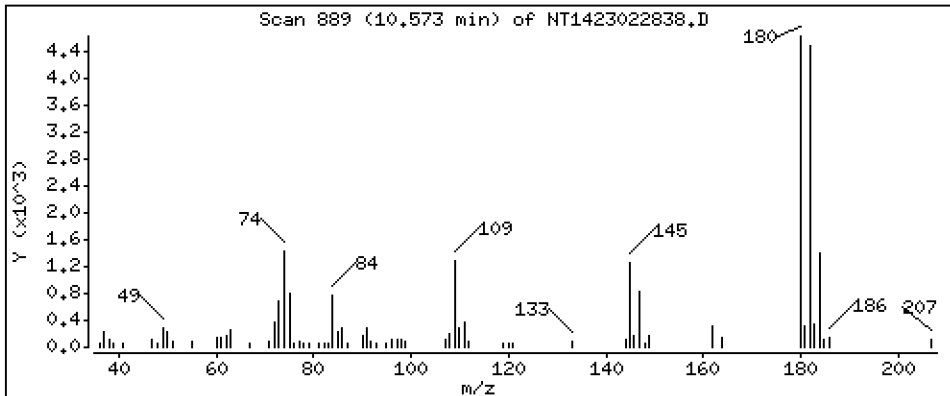
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

26 1,2,4-Trichlorobenzene

Concentration: 0.1994 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

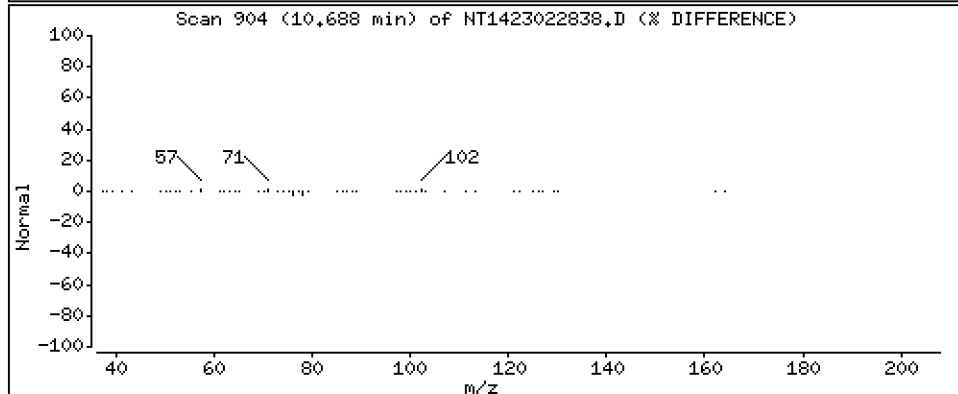
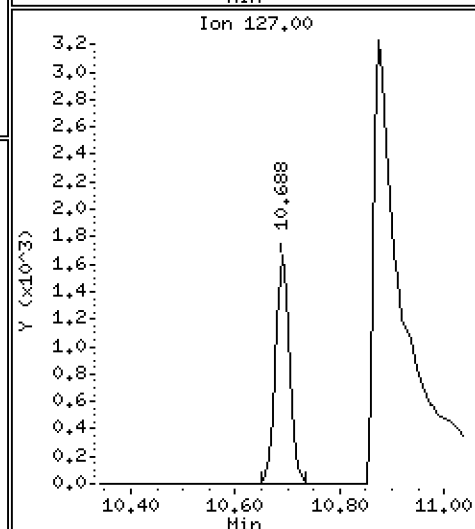
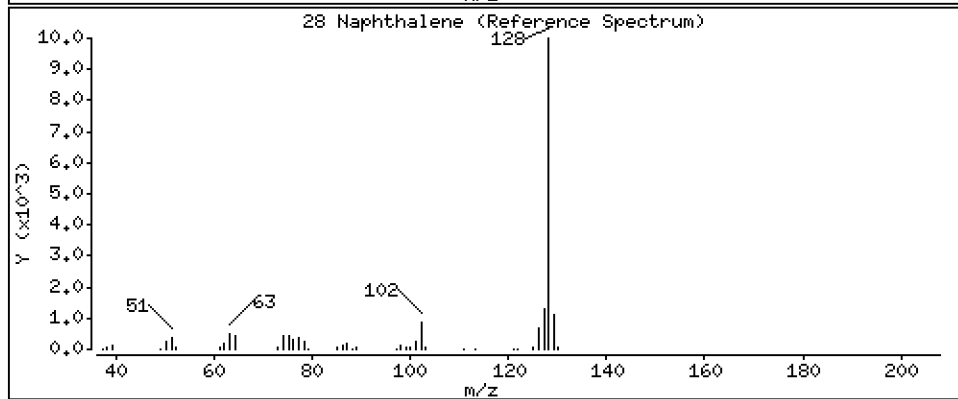
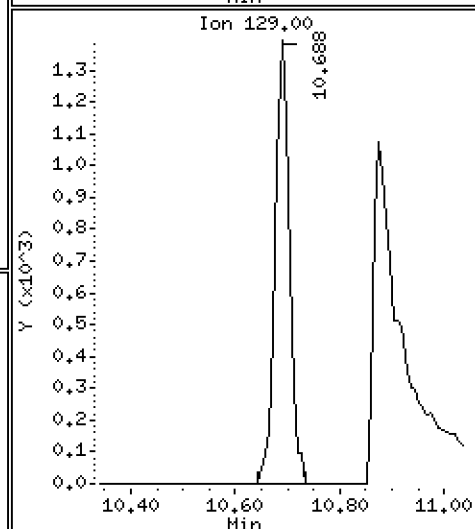
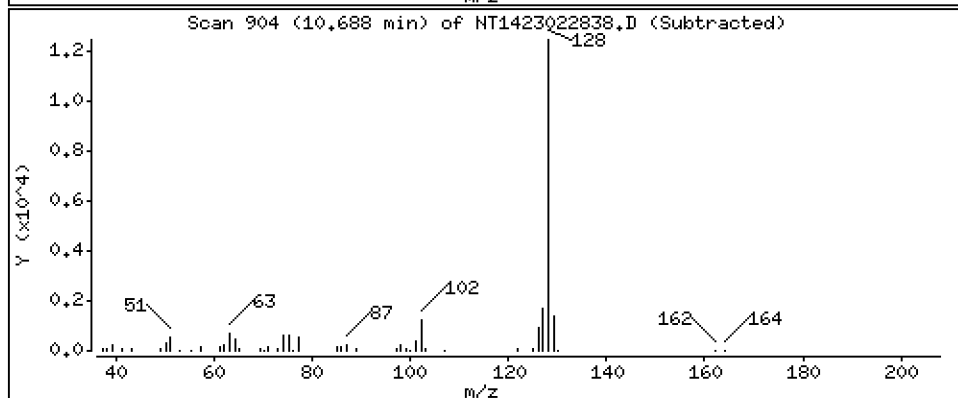
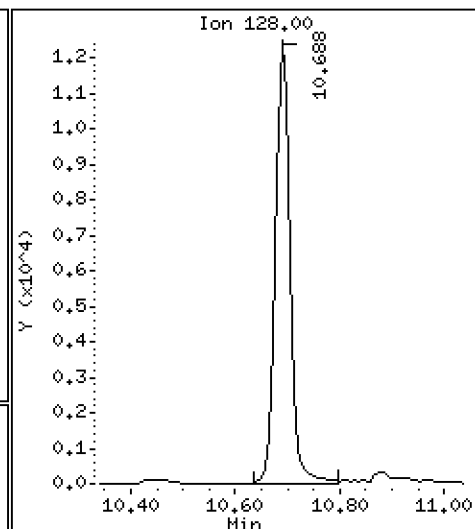
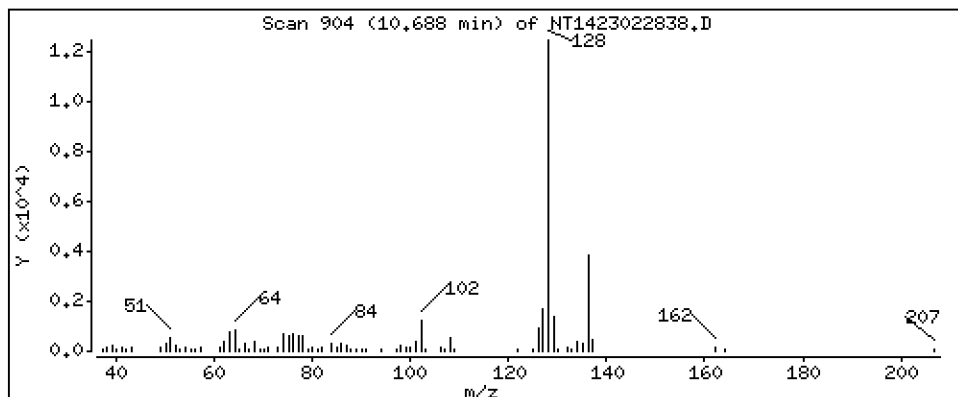
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2156 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

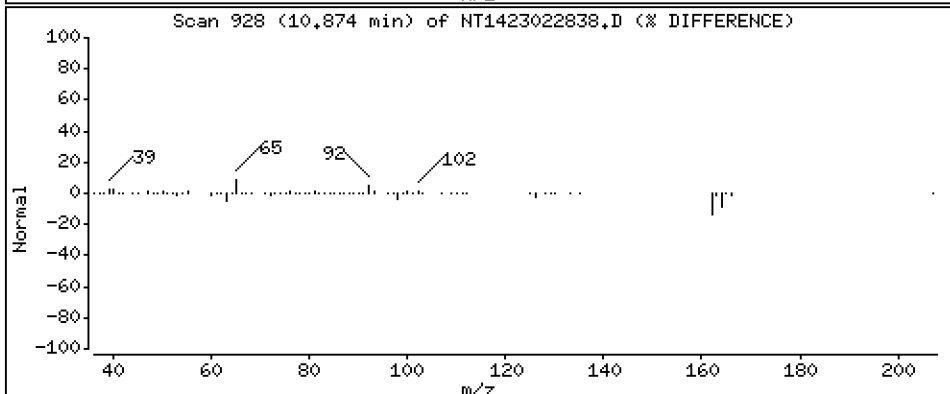
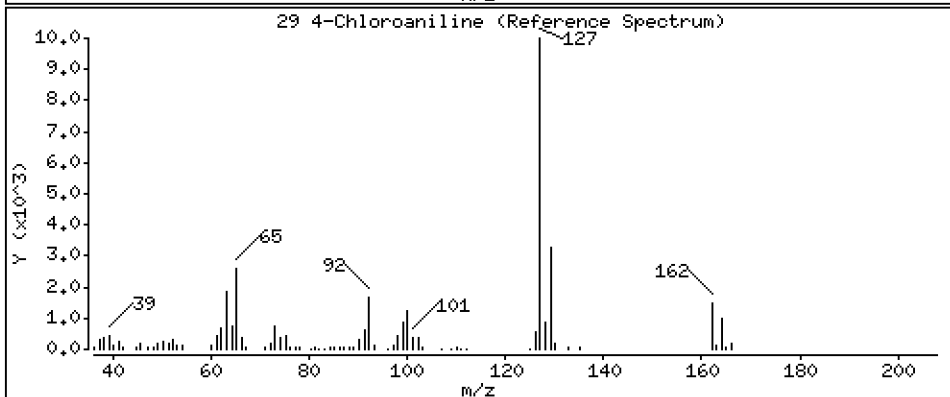
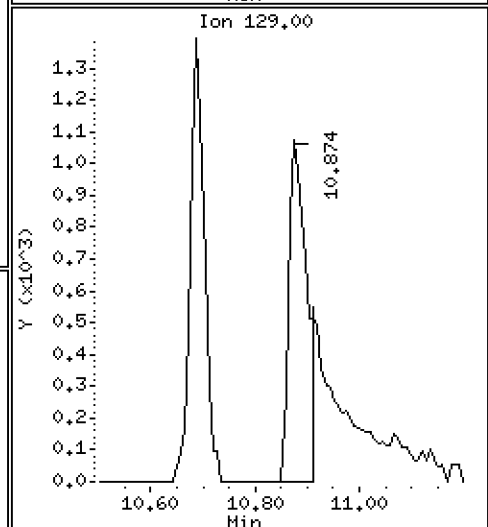
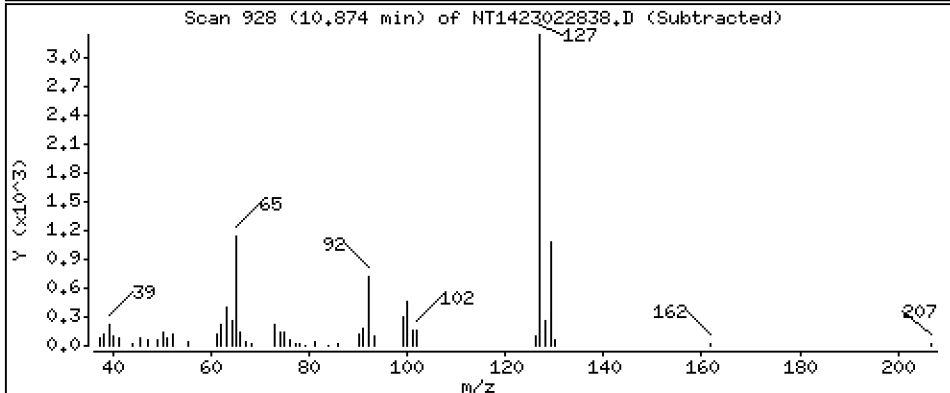
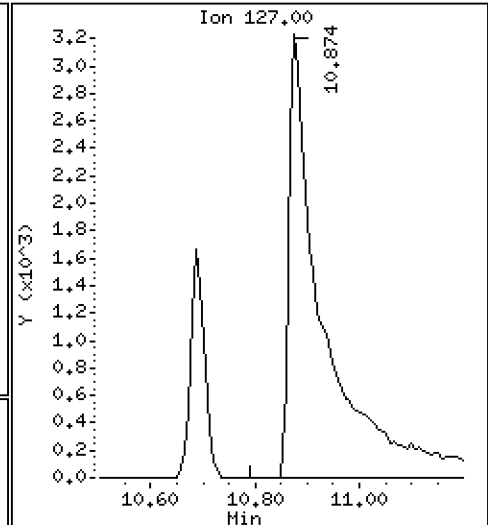
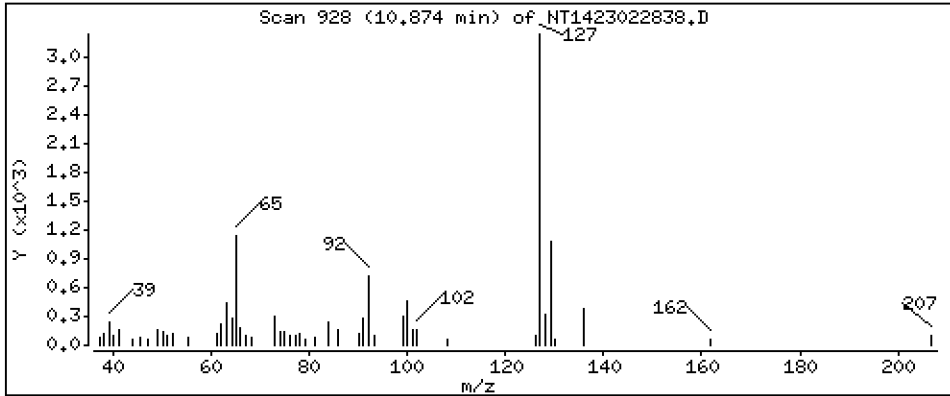
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3476 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

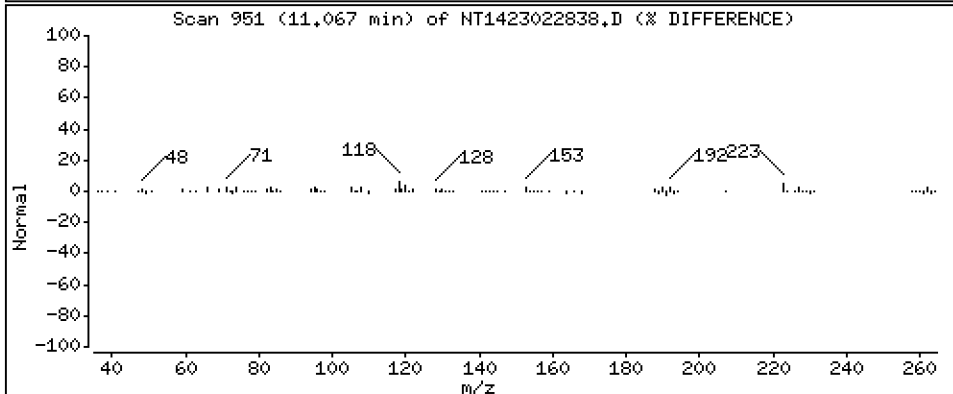
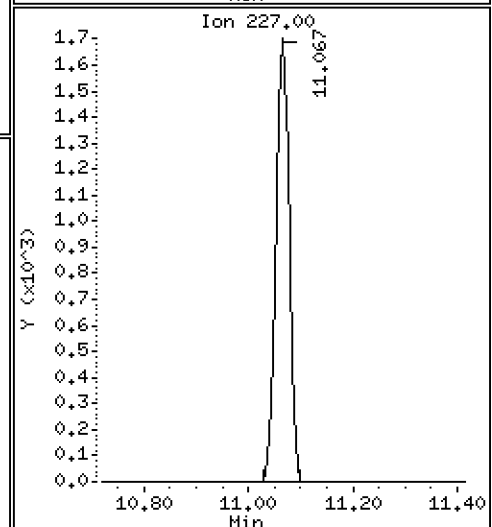
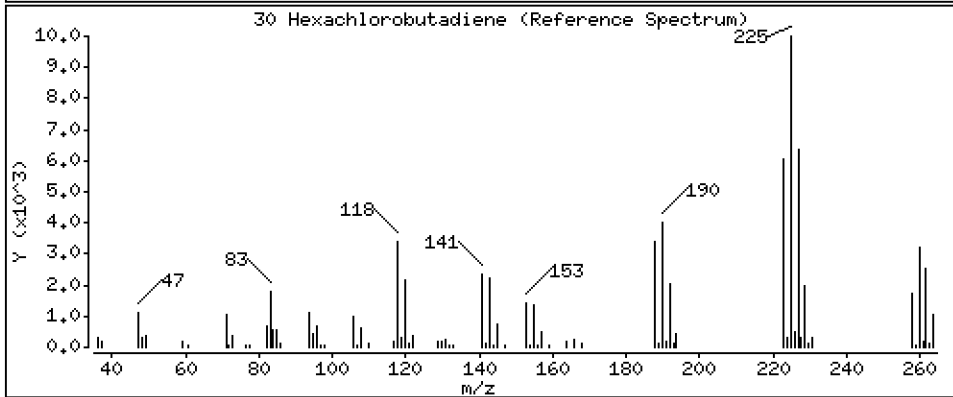
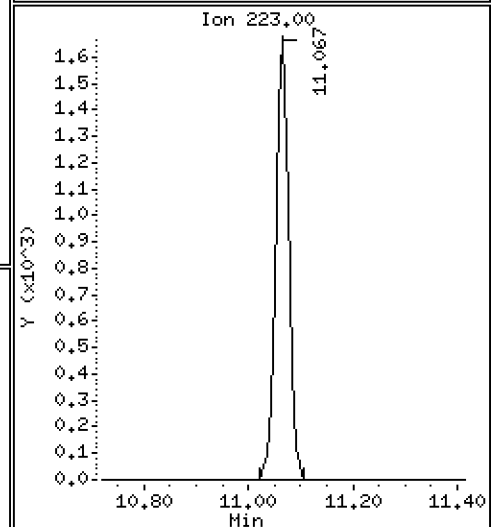
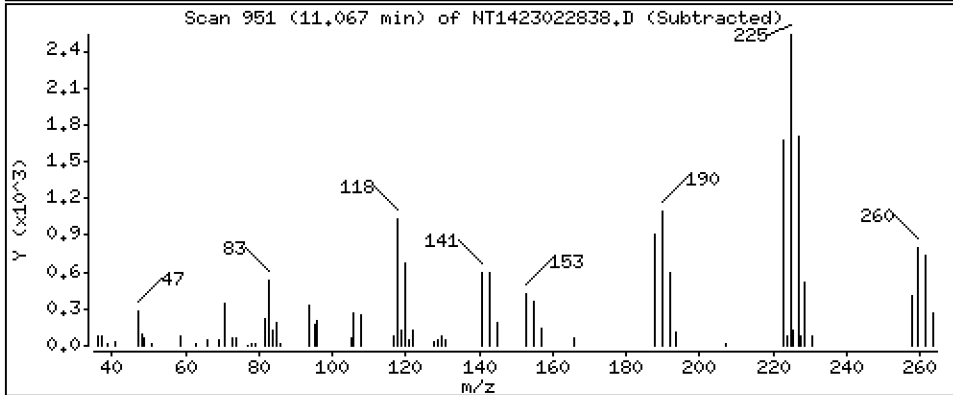
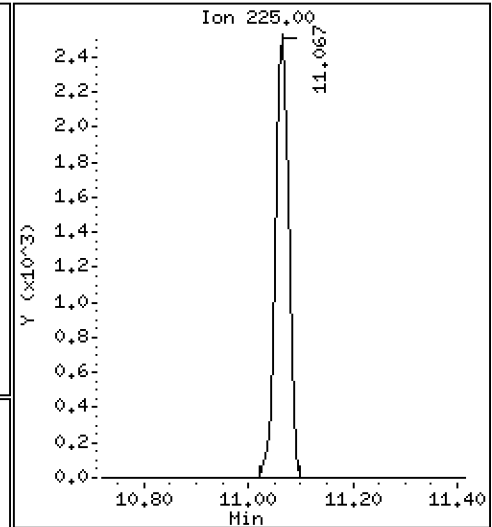
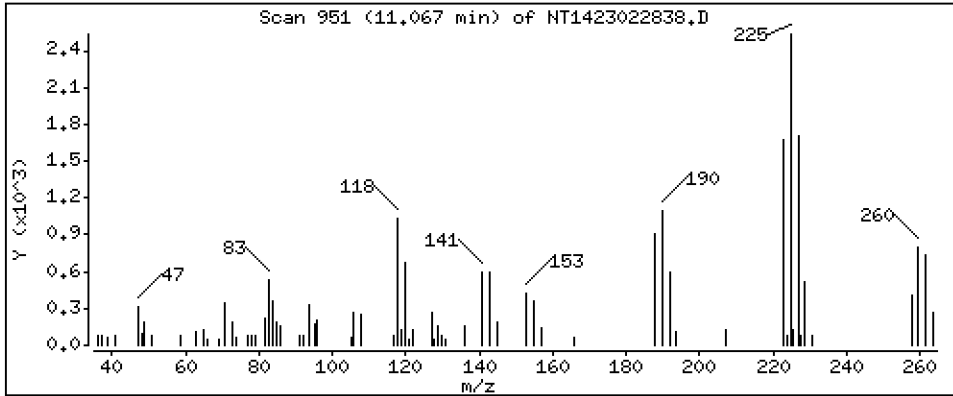
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

30 Hexachlorobutadiene

Concentration: 0.1778 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

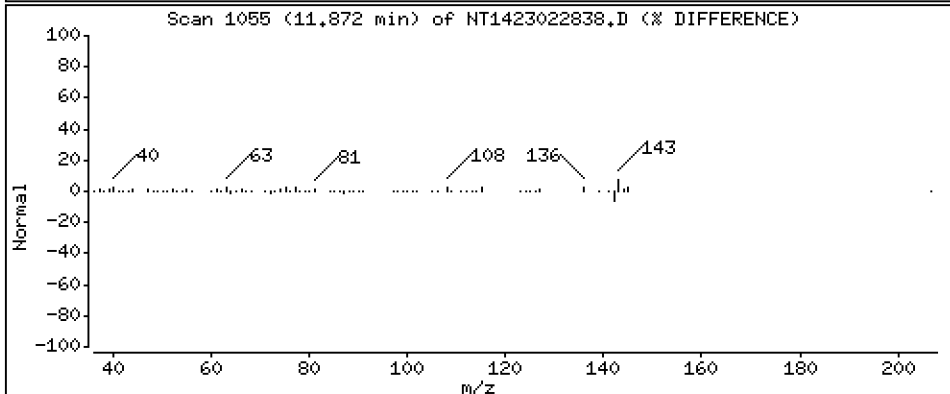
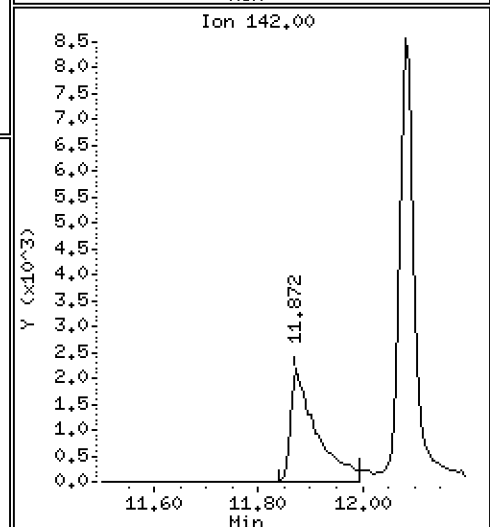
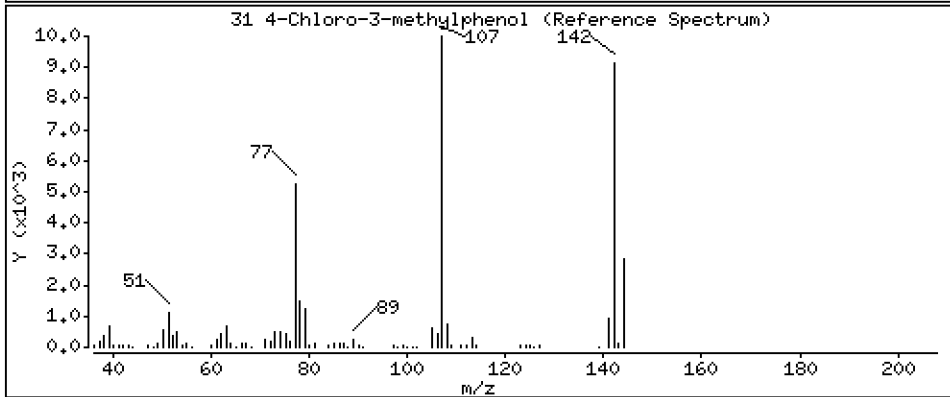
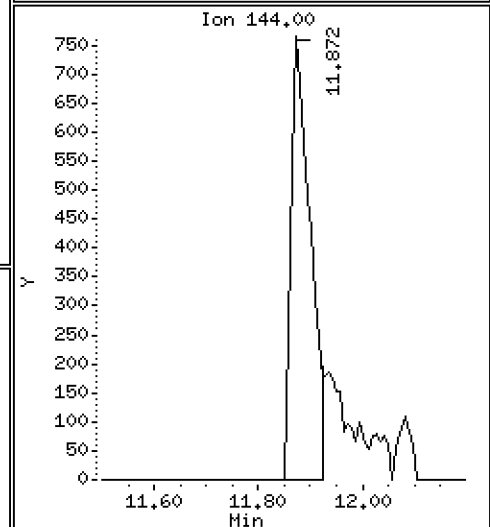
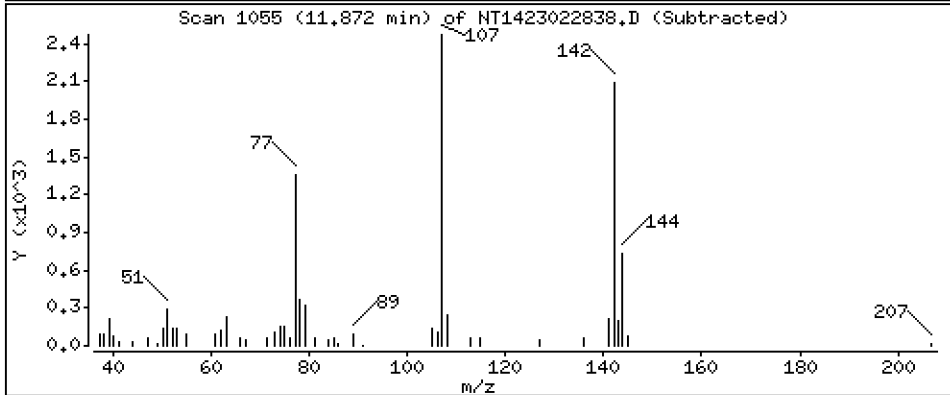
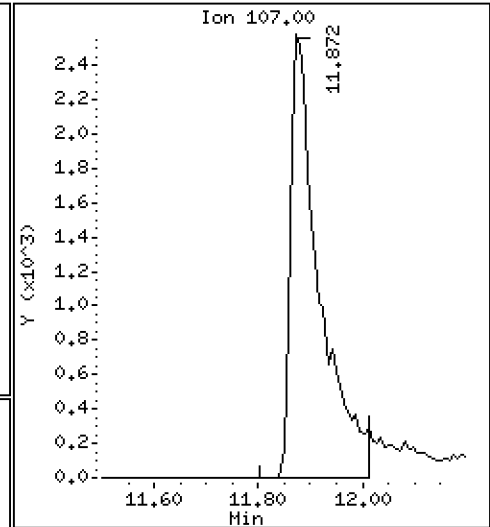
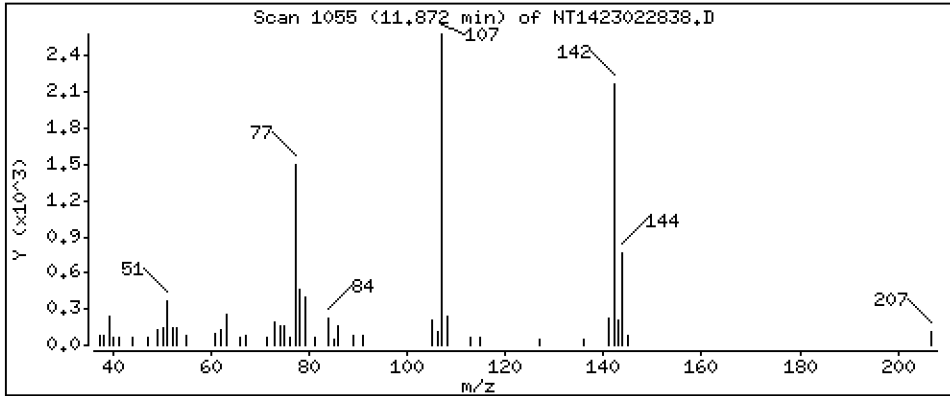
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,3257 ug/mL





Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

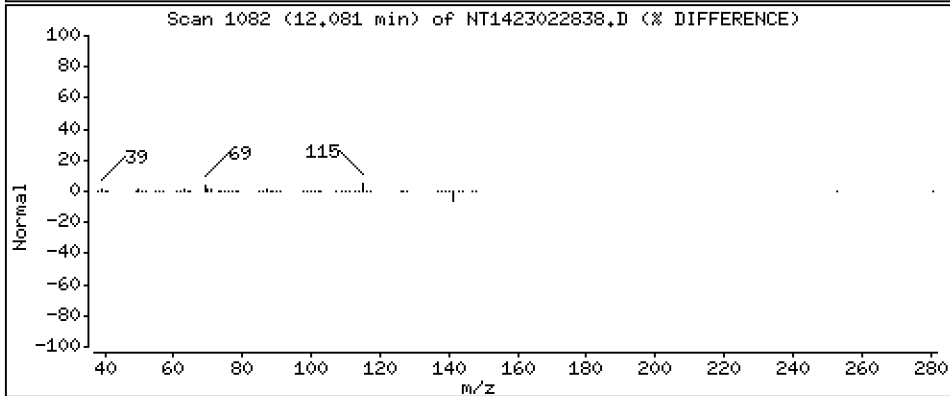
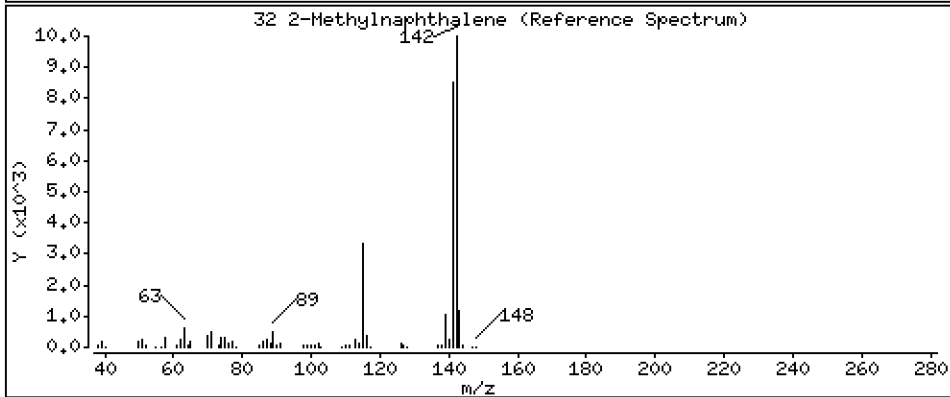
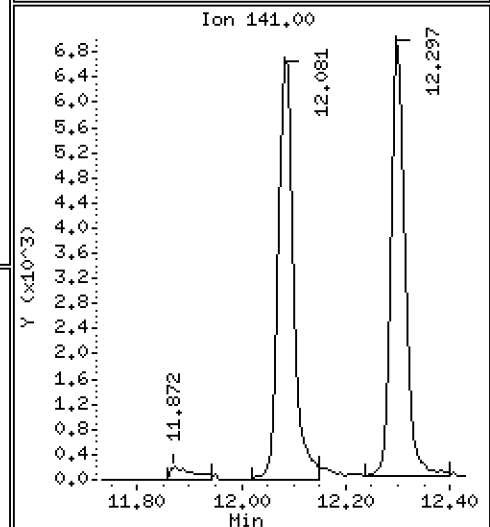
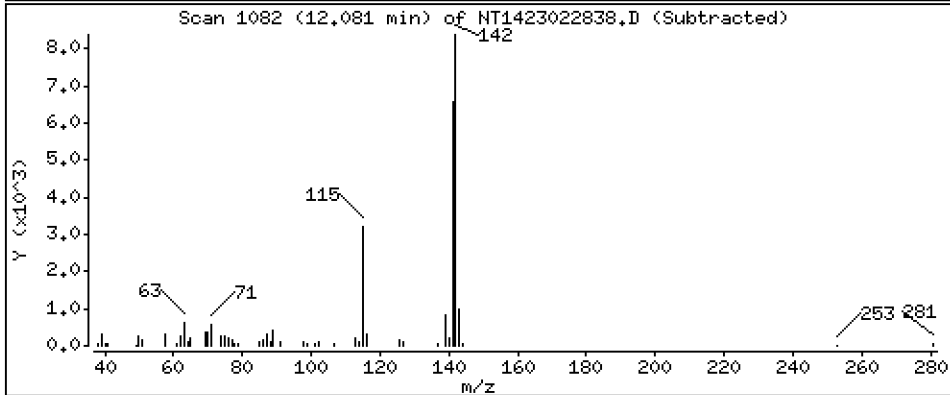
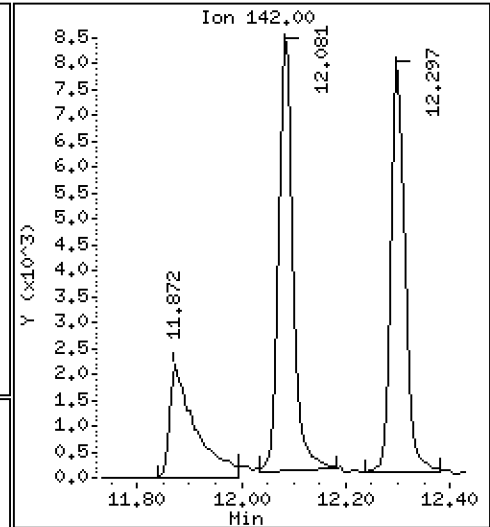
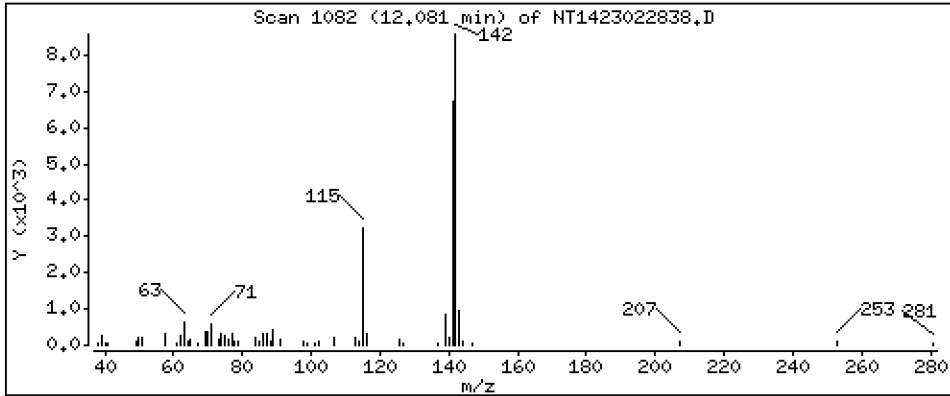
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1925 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

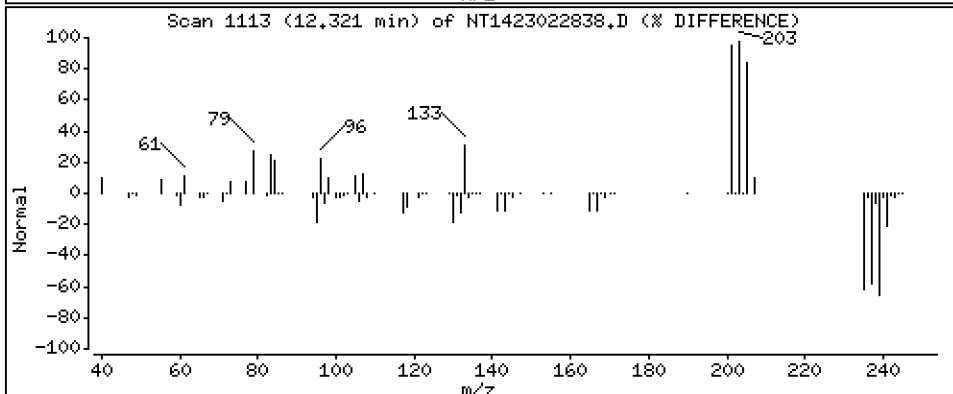
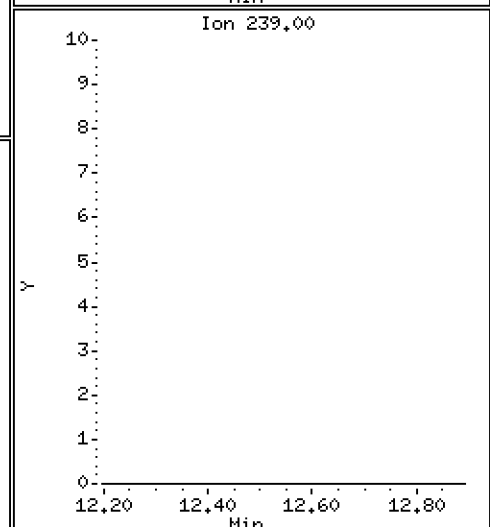
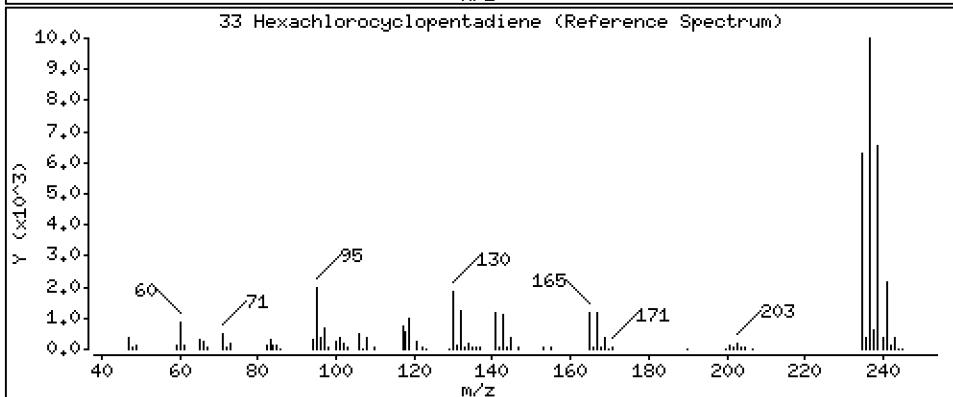
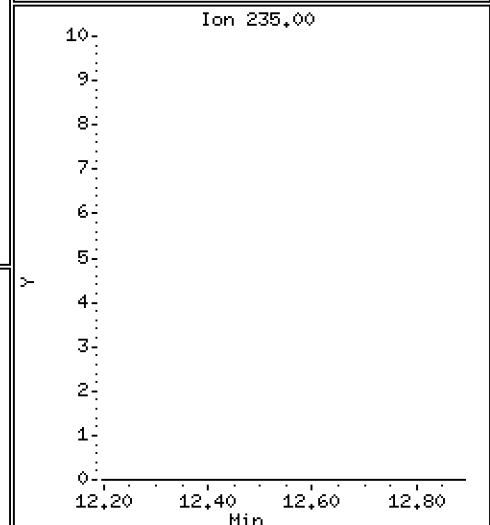
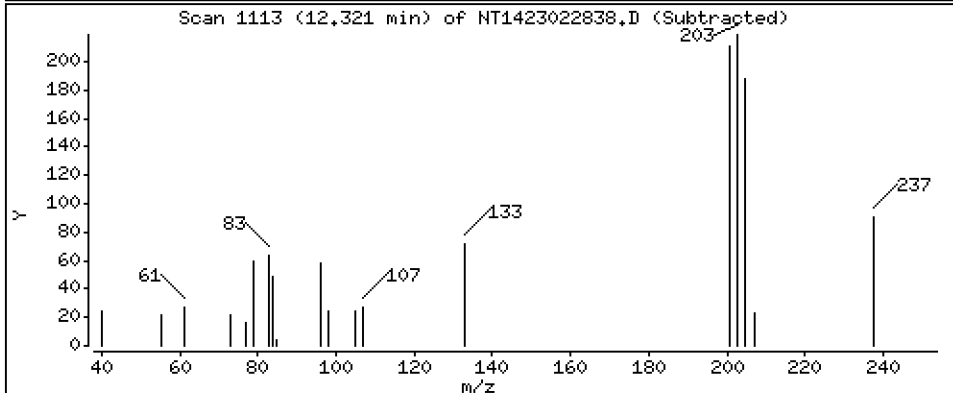
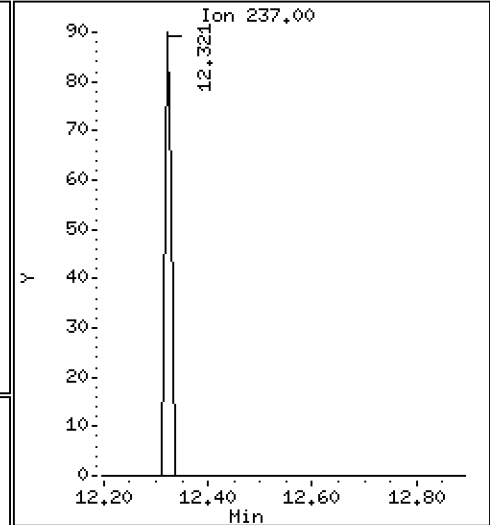
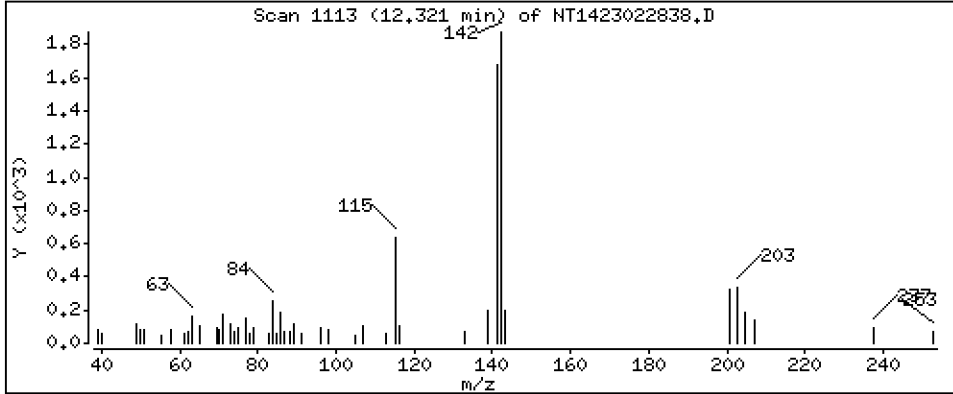
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,002849 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

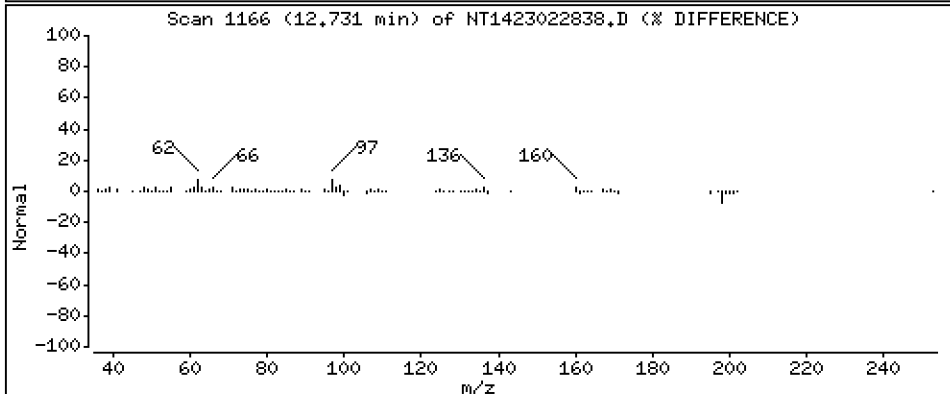
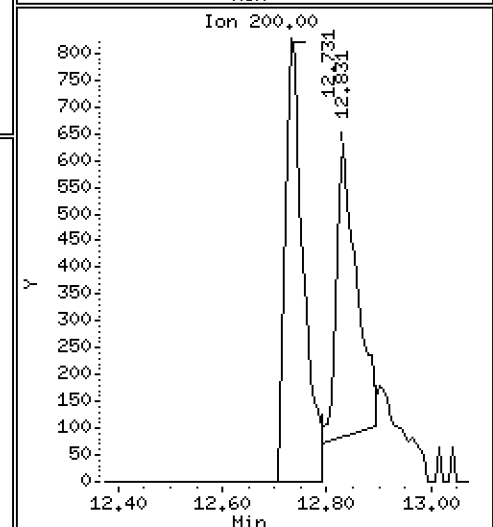
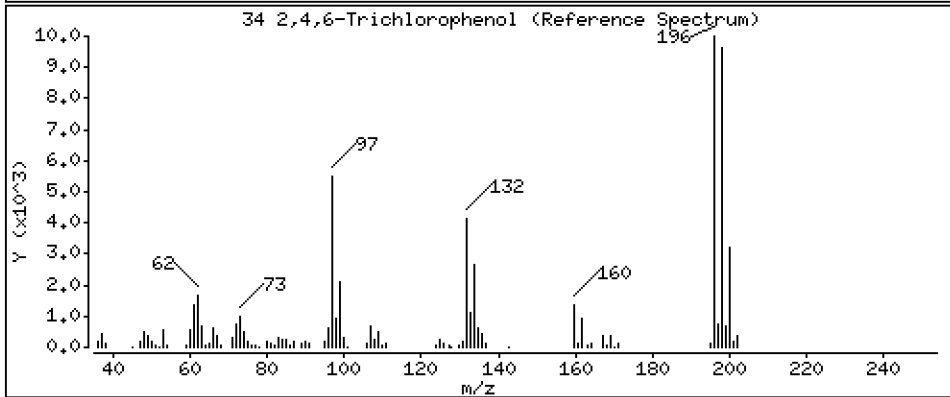
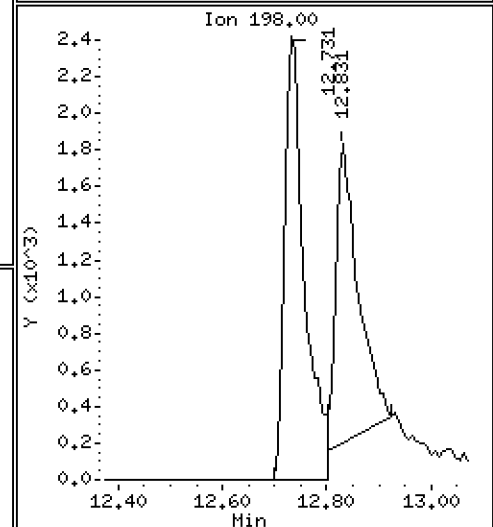
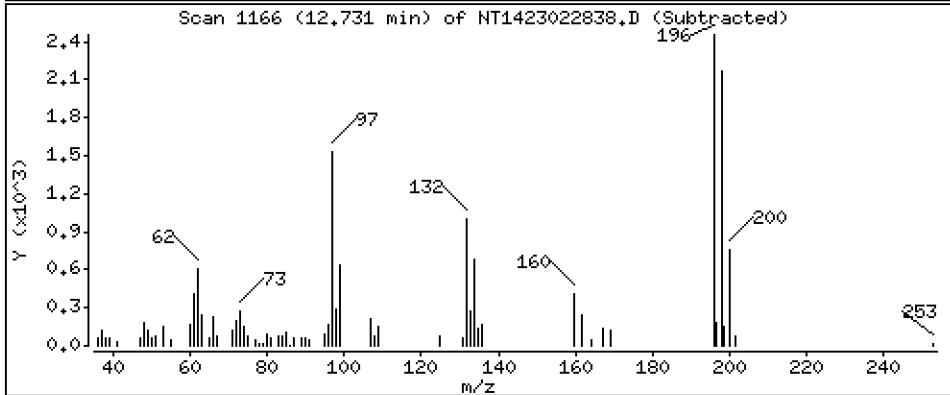
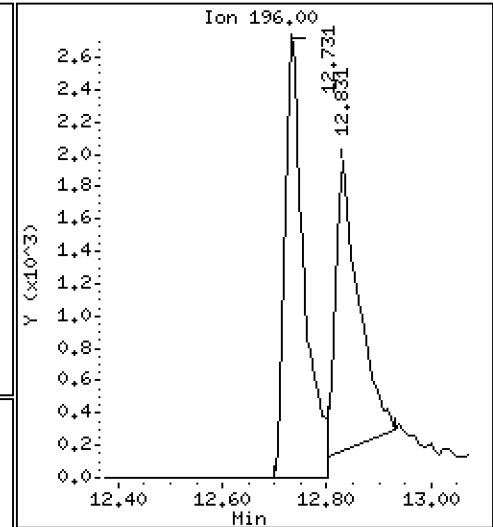
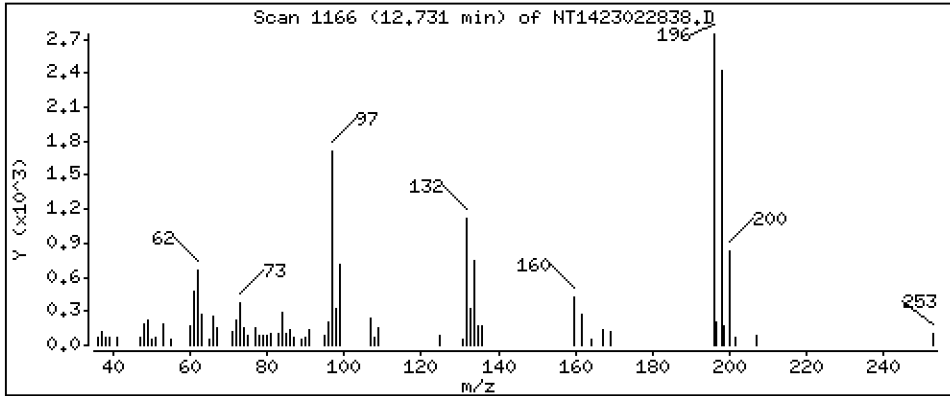
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

34 2,4,6-Trichlorophenol

Concentration: 0.3161 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

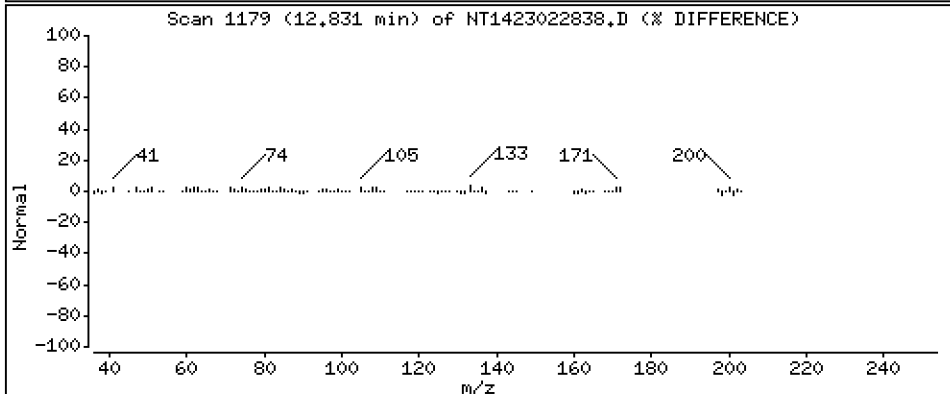
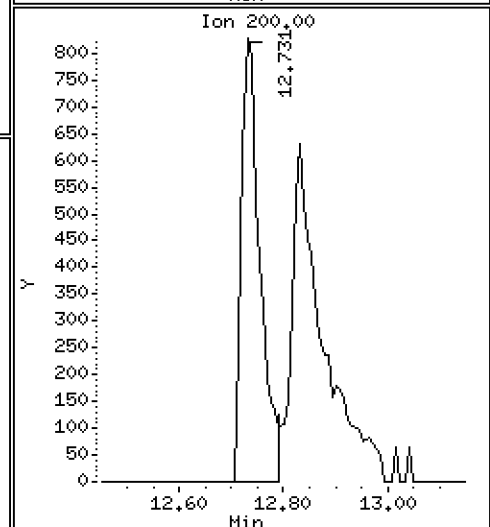
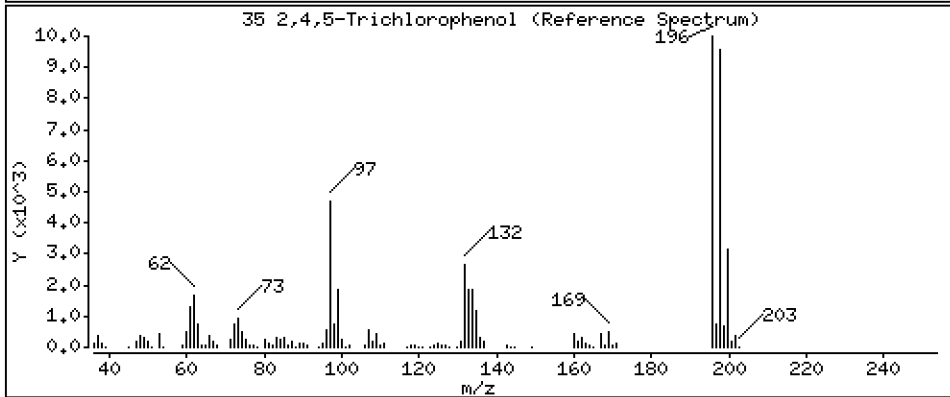
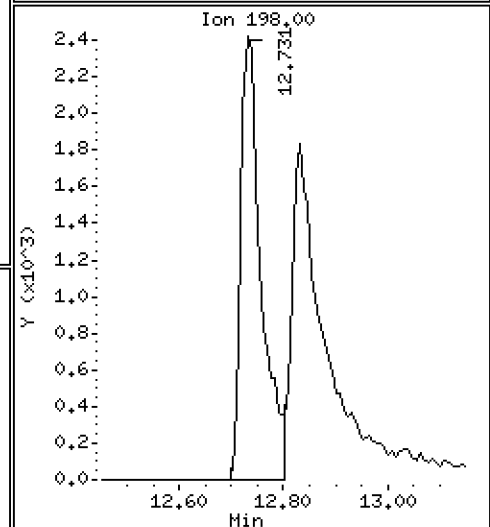
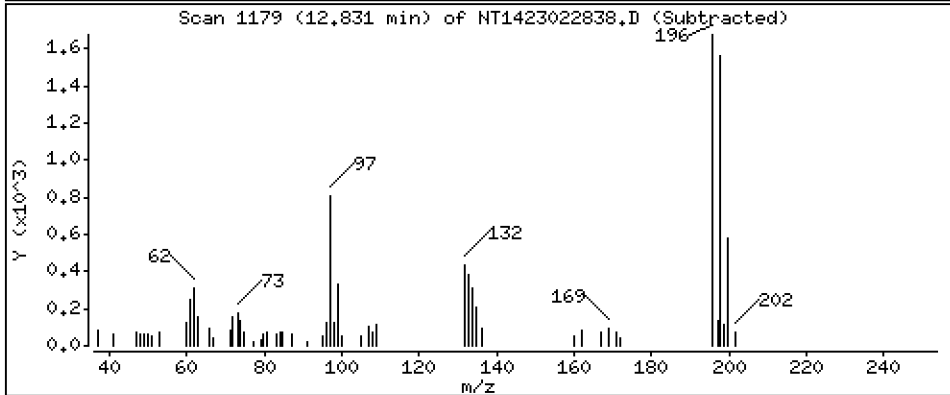
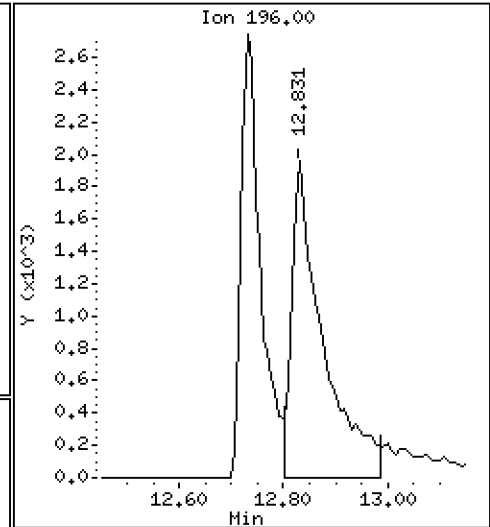
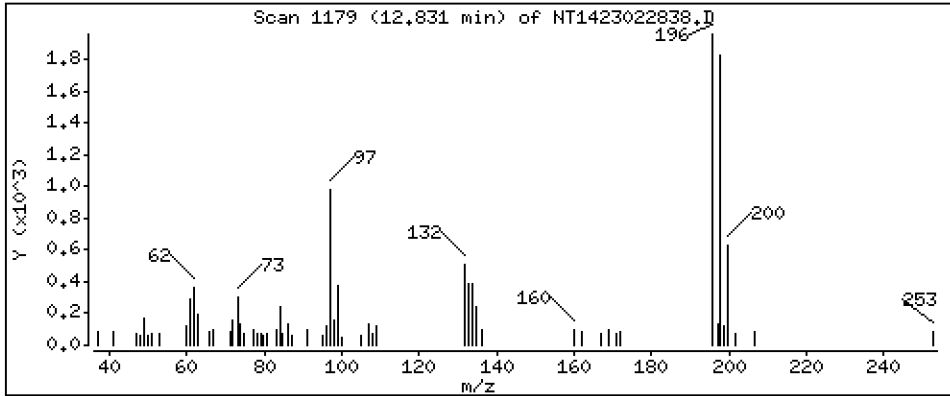
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,3462 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

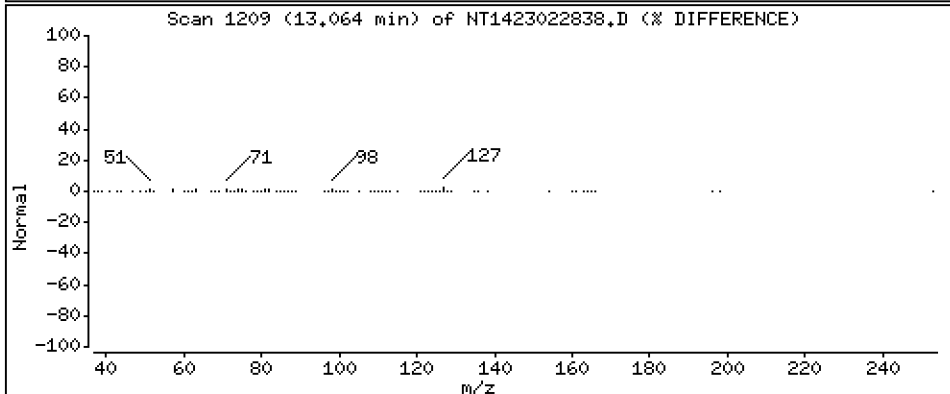
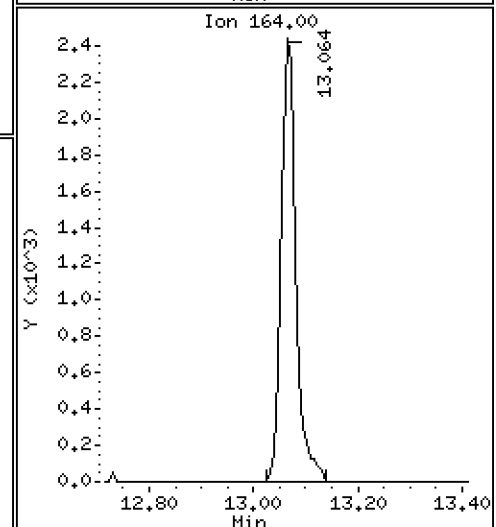
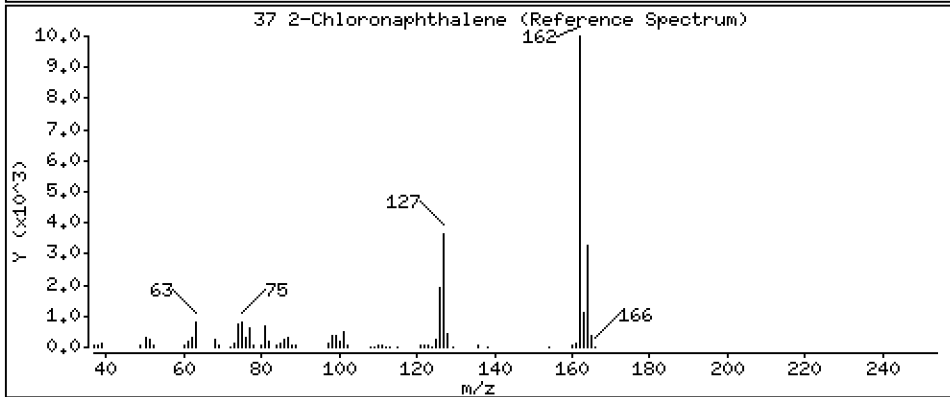
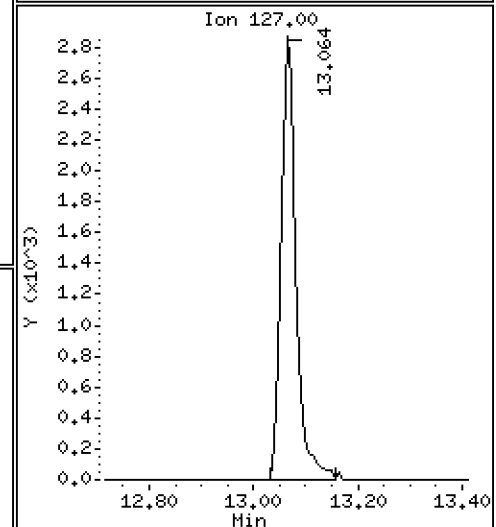
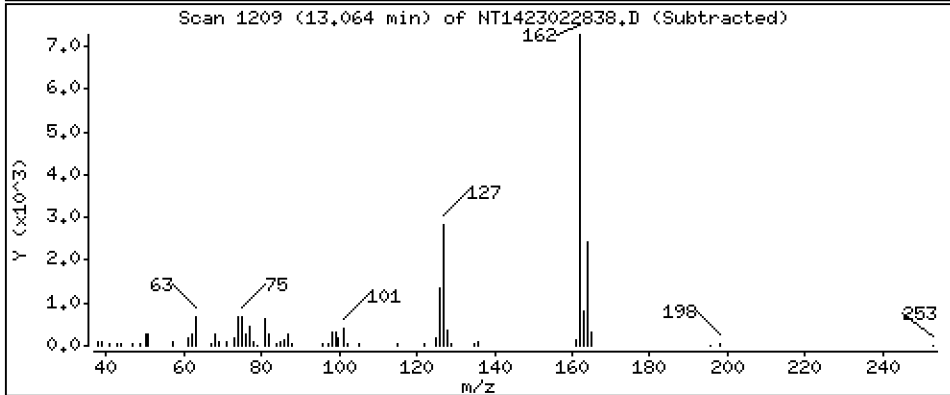
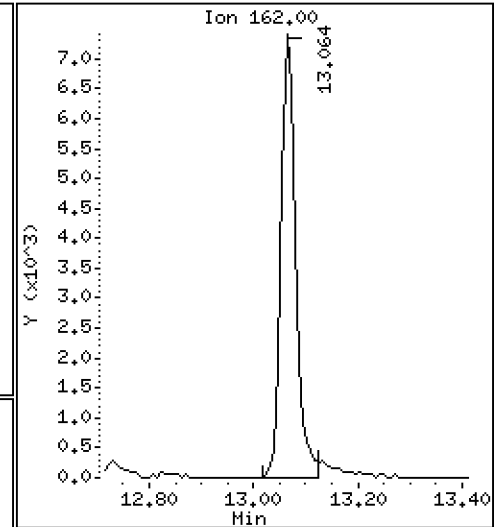
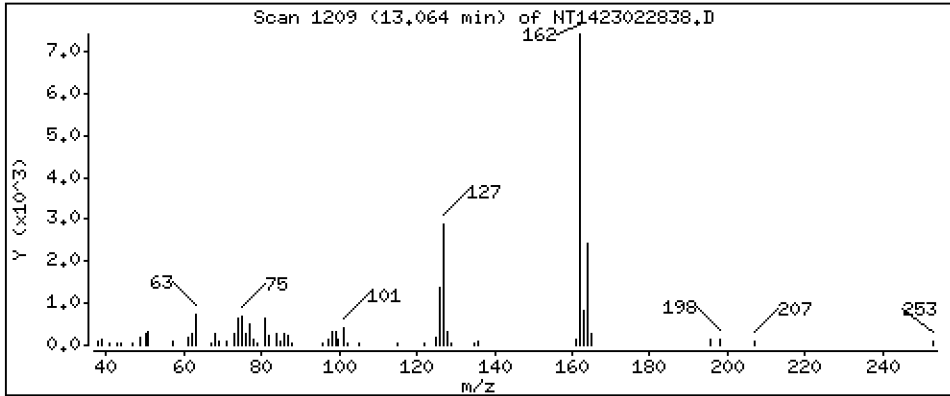
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,1970 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

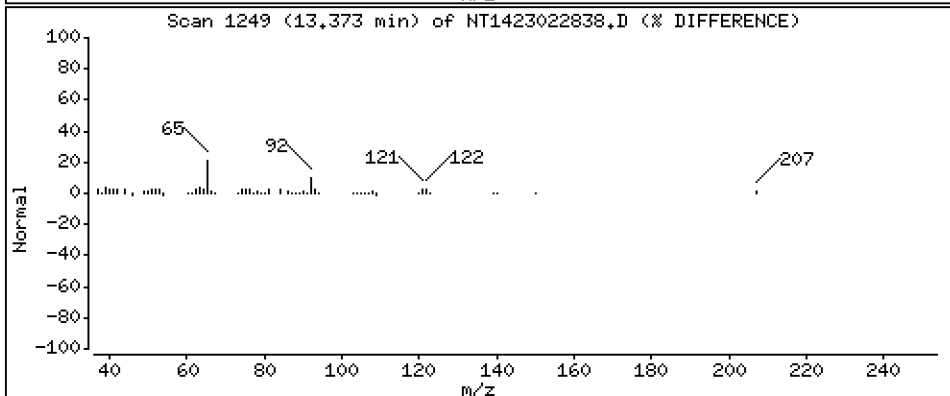
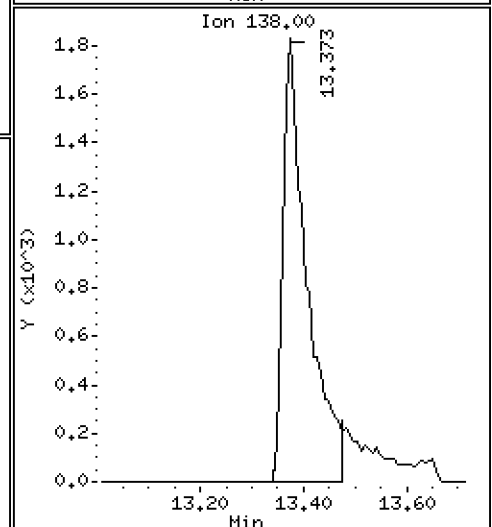
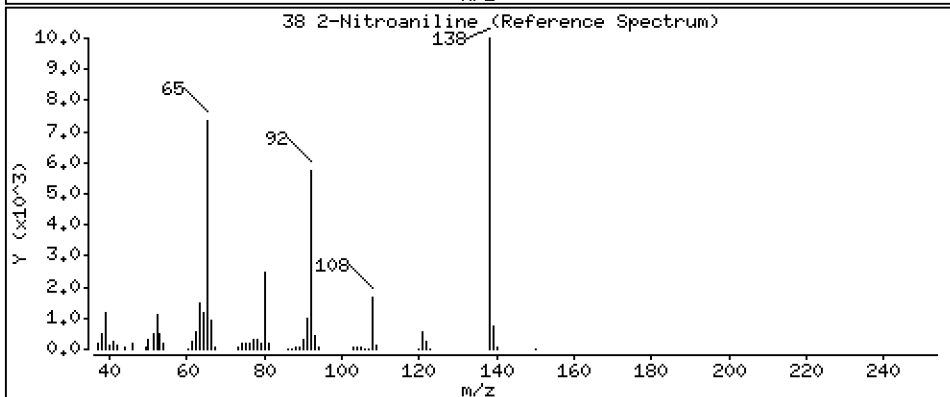
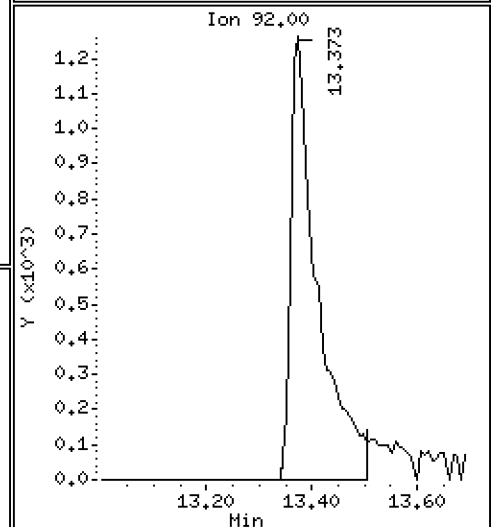
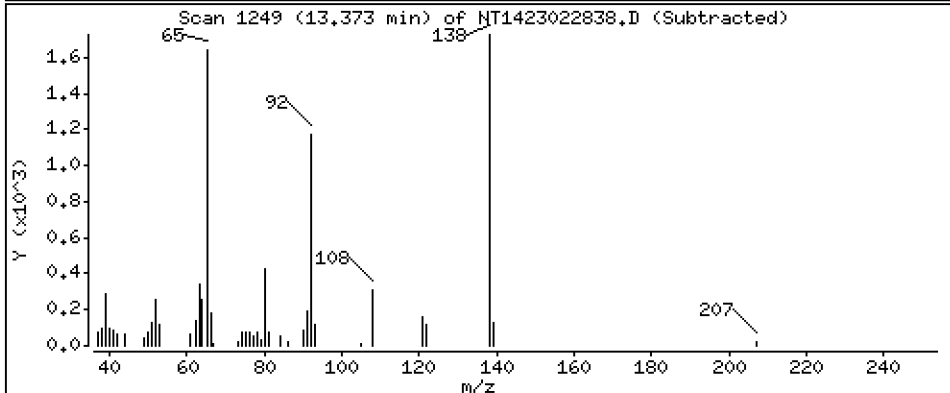
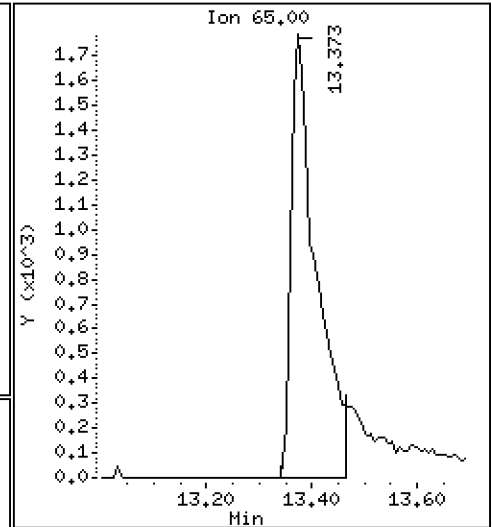
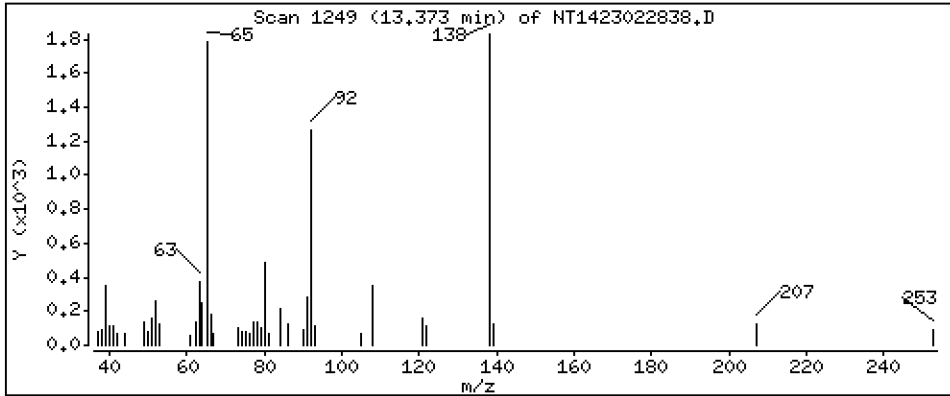
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,3308 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

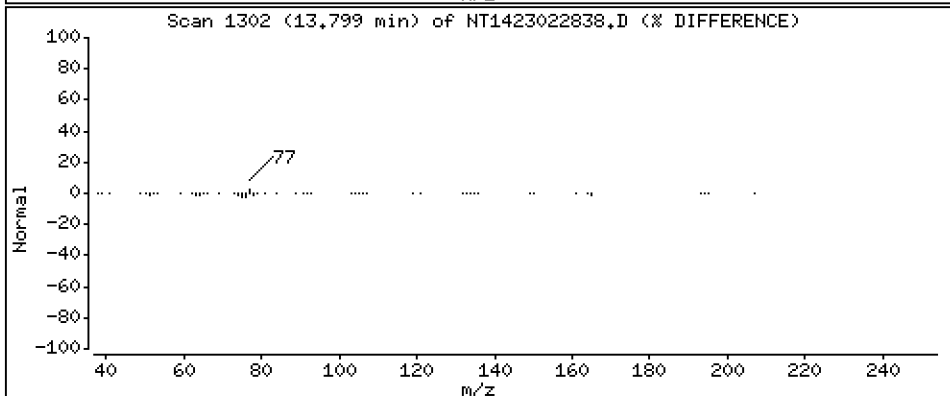
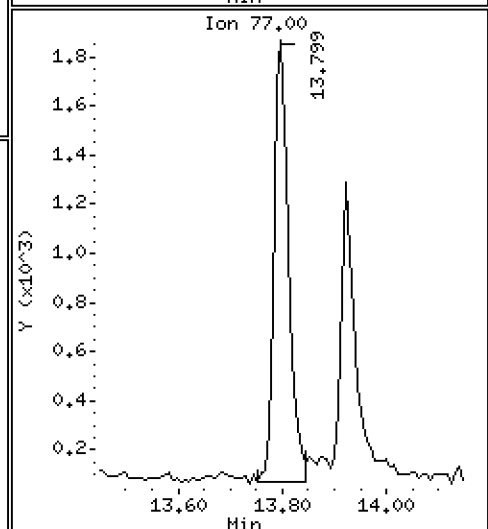
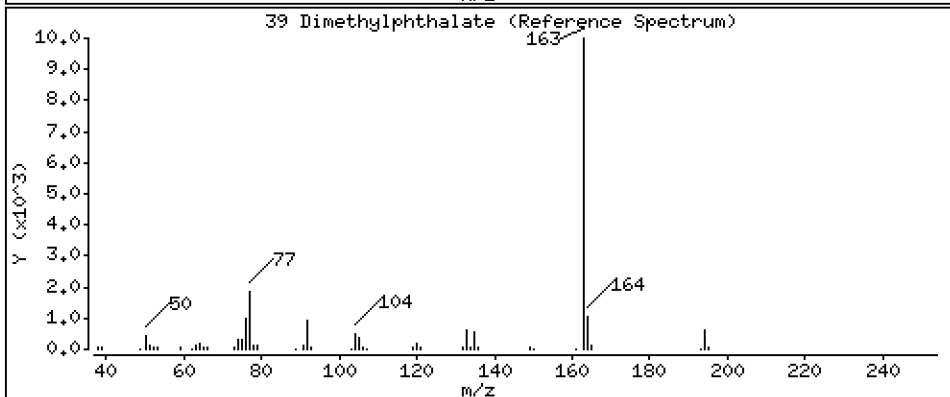
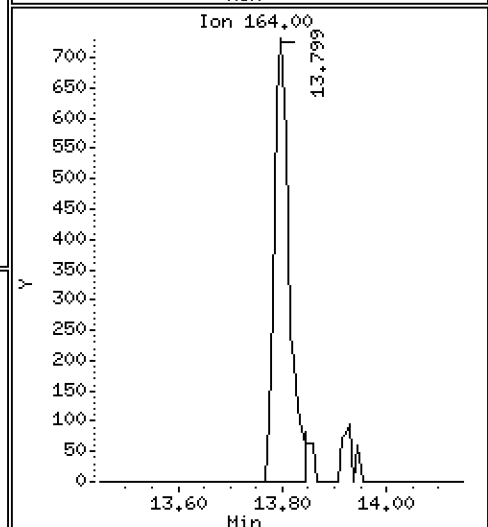
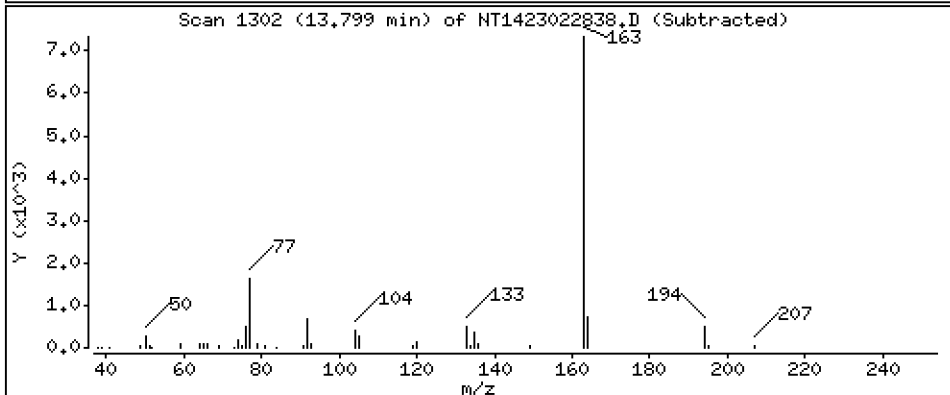
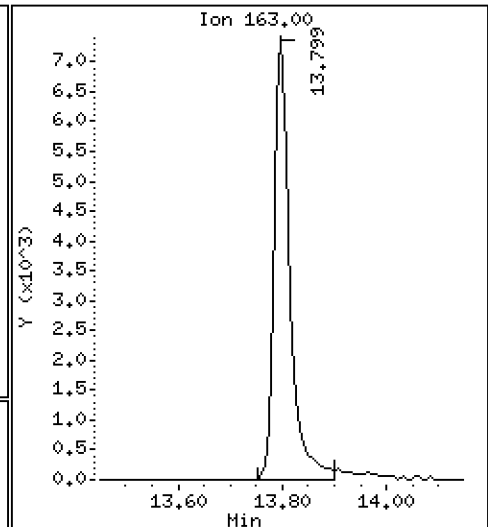
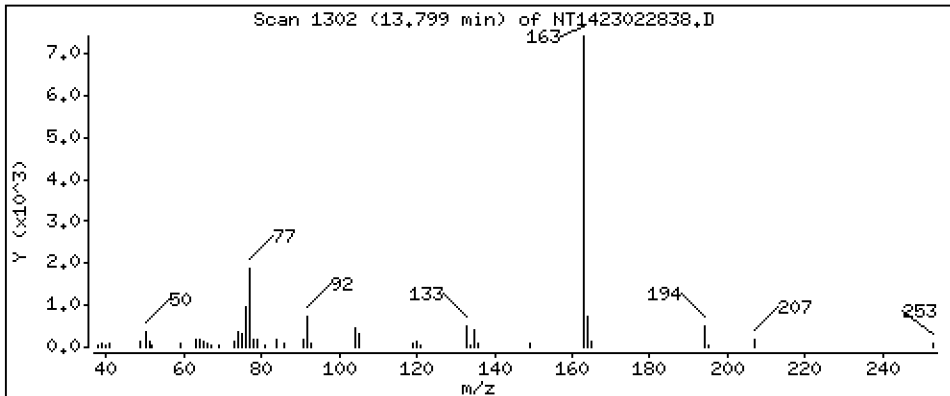
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2095 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

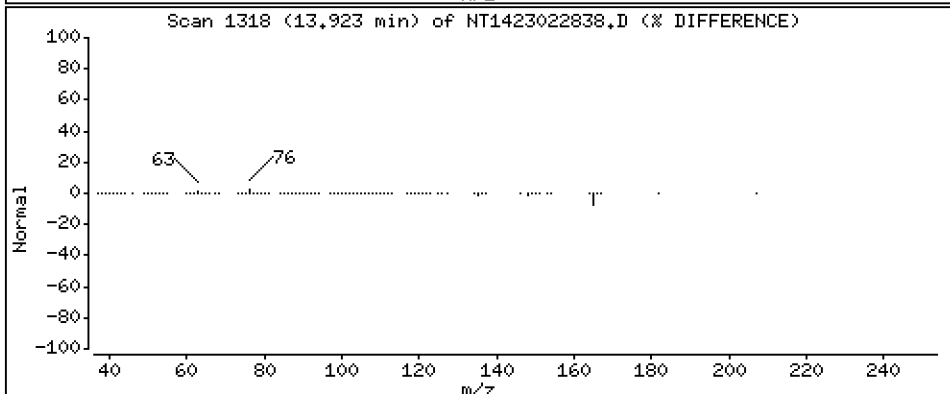
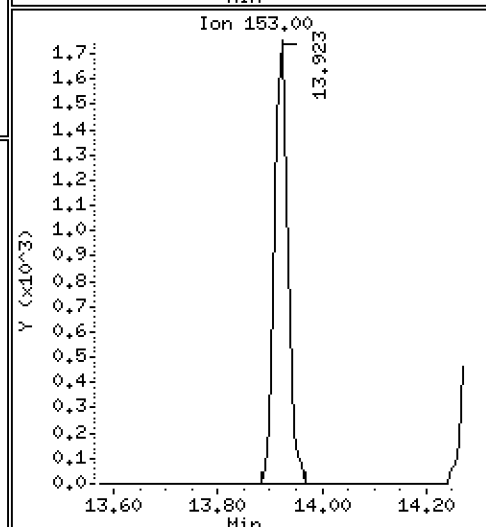
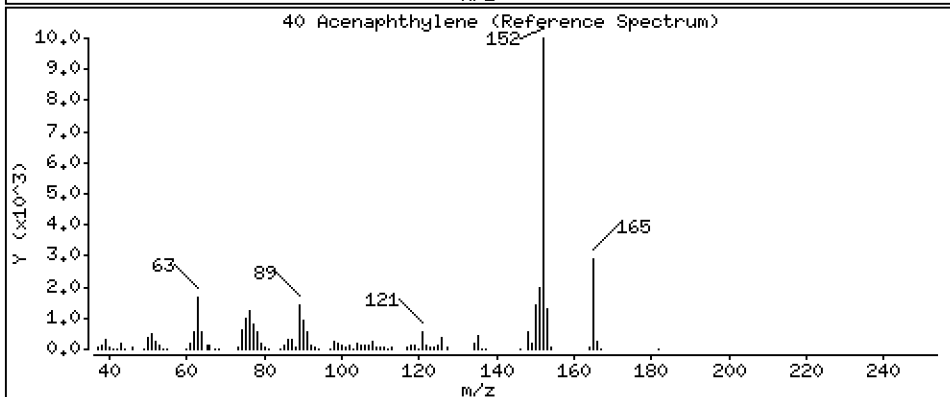
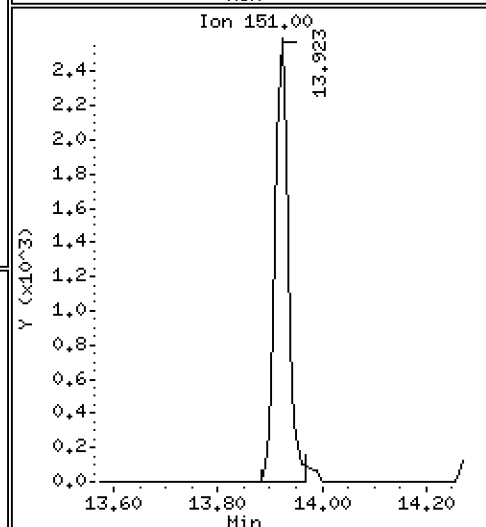
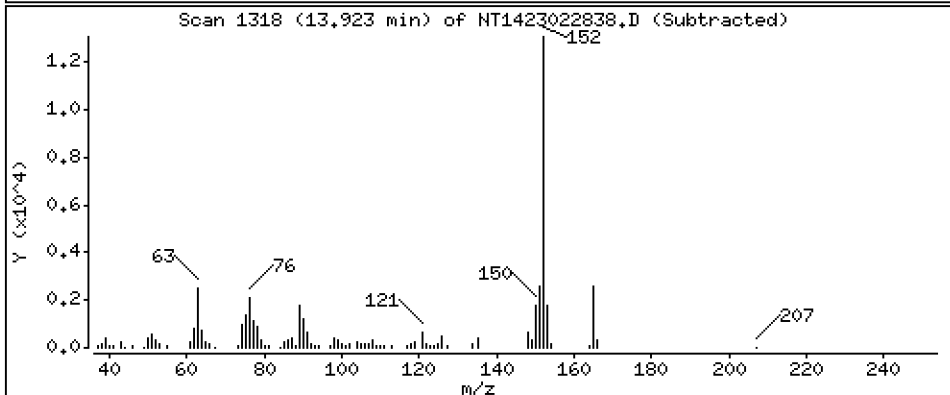
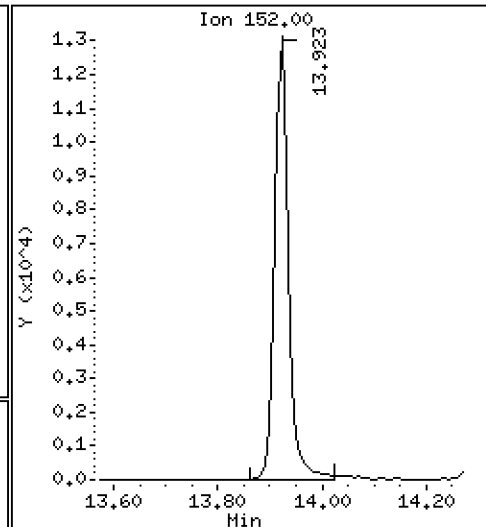
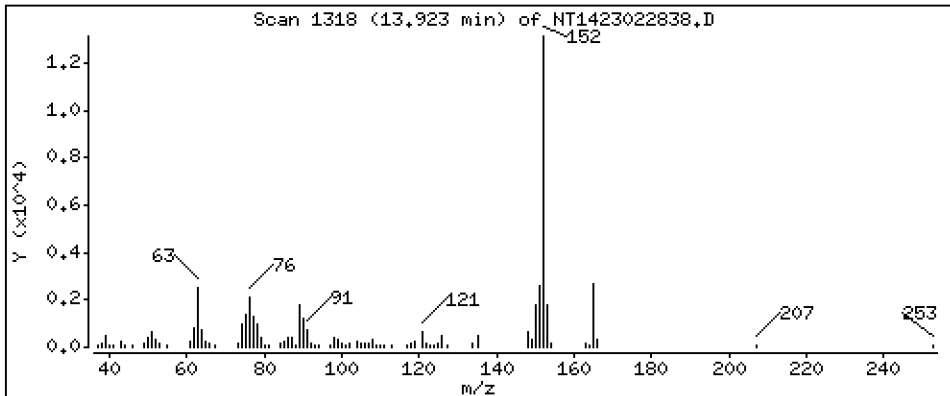
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2206 ug/mL





Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

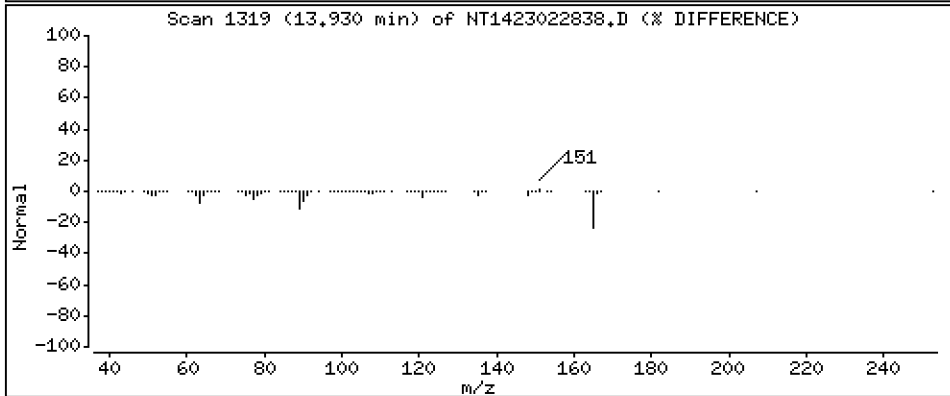
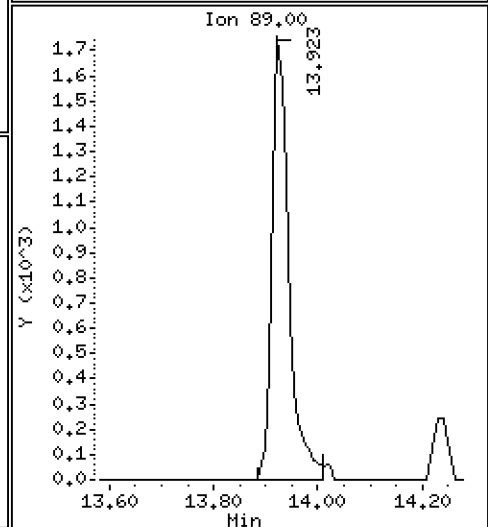
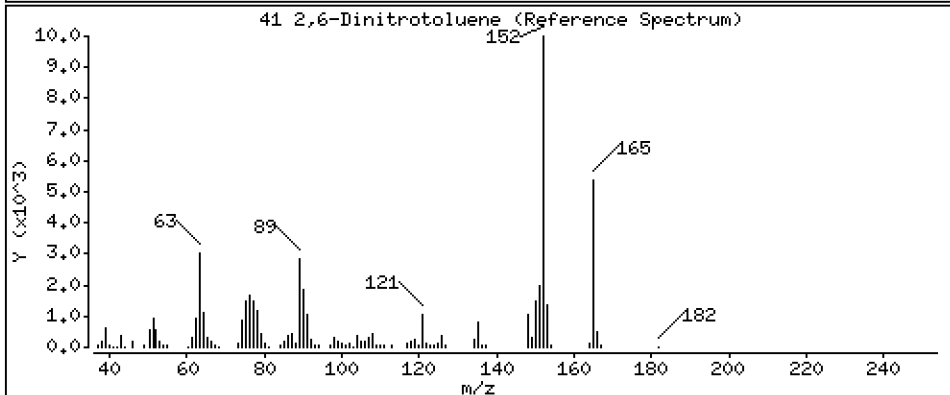
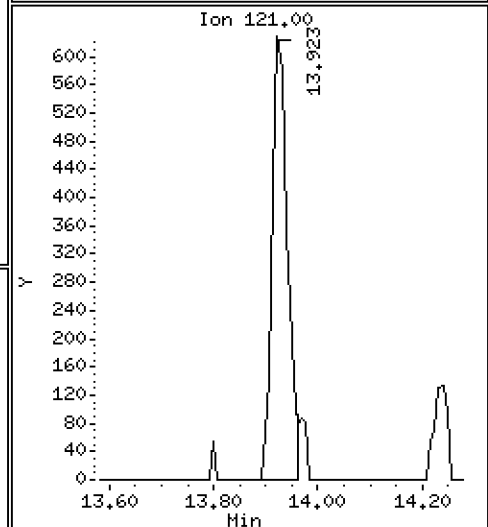
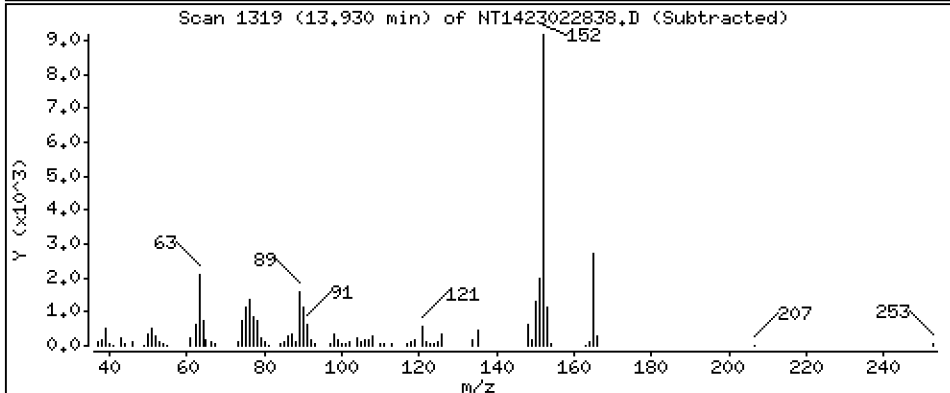
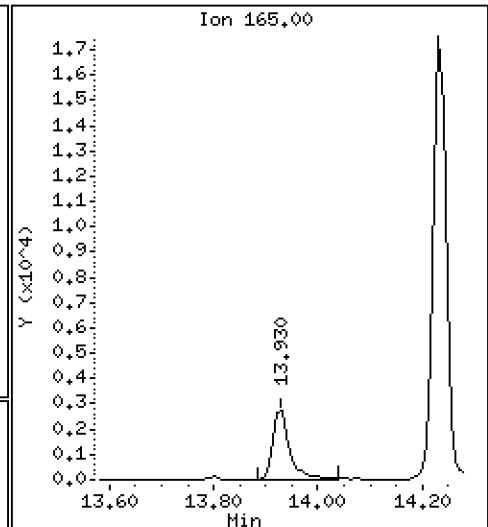
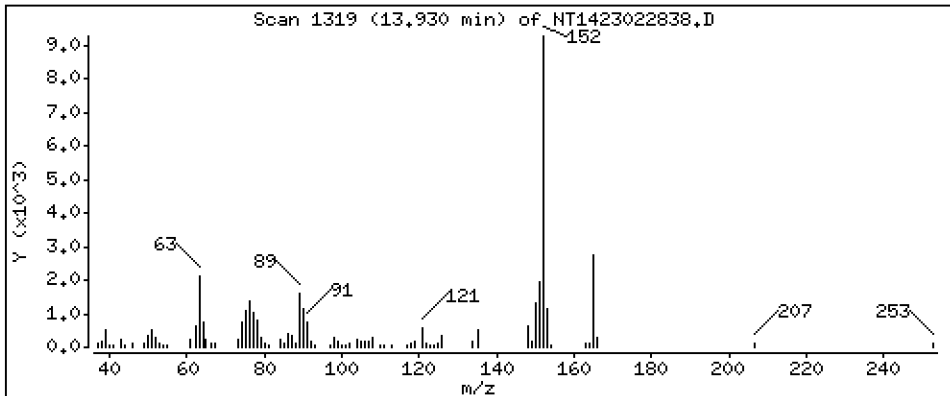
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 0.3629 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

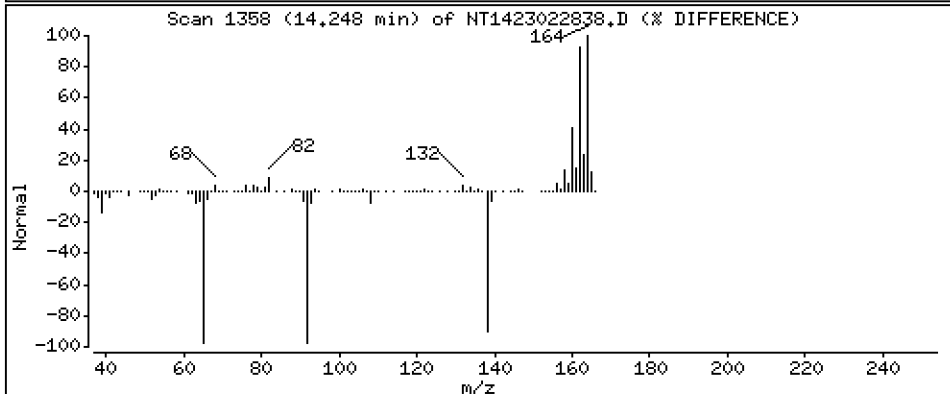
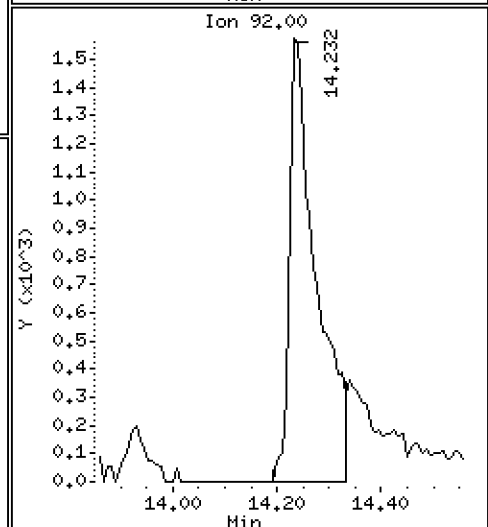
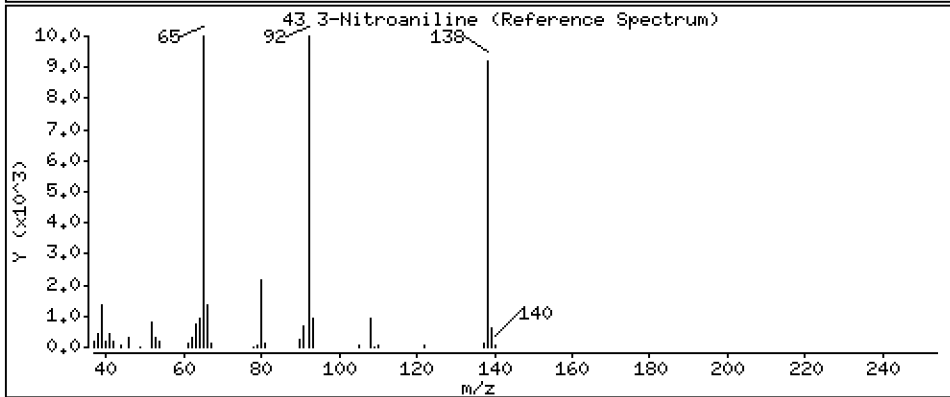
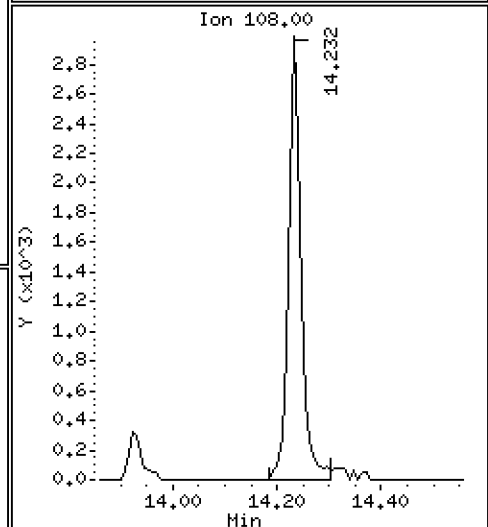
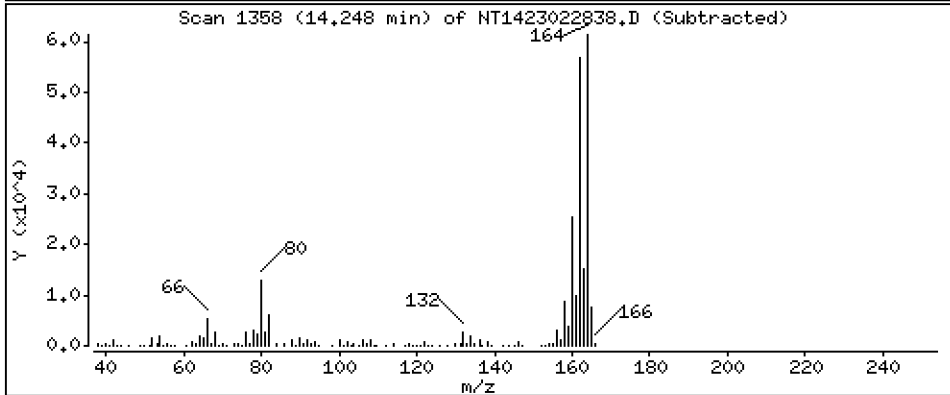
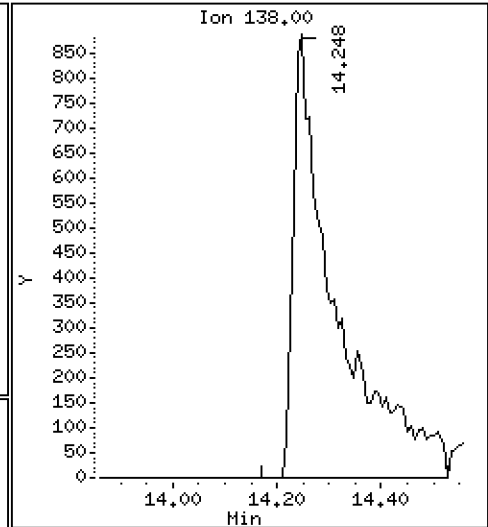
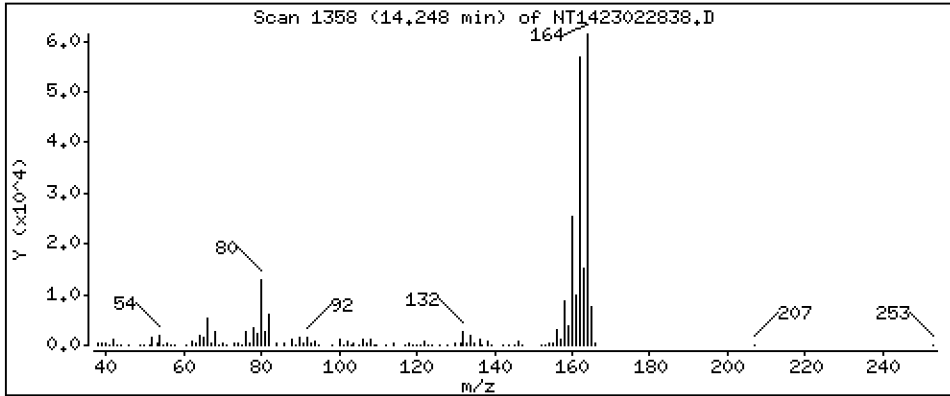
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

43 3-Nitroaniline

Concentration: 0.2929 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

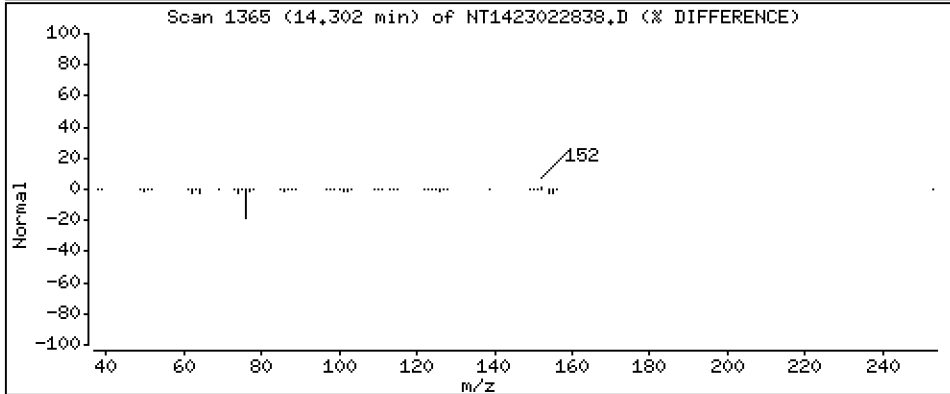
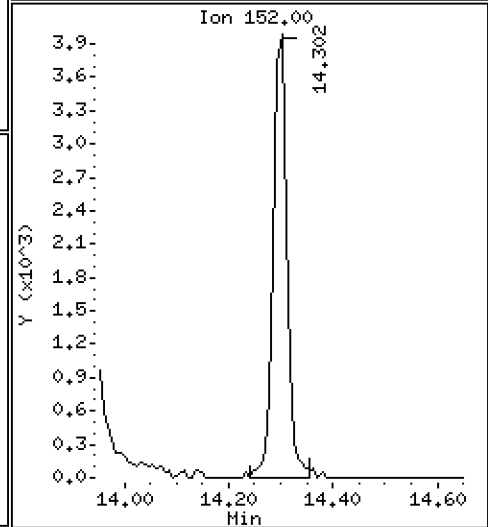
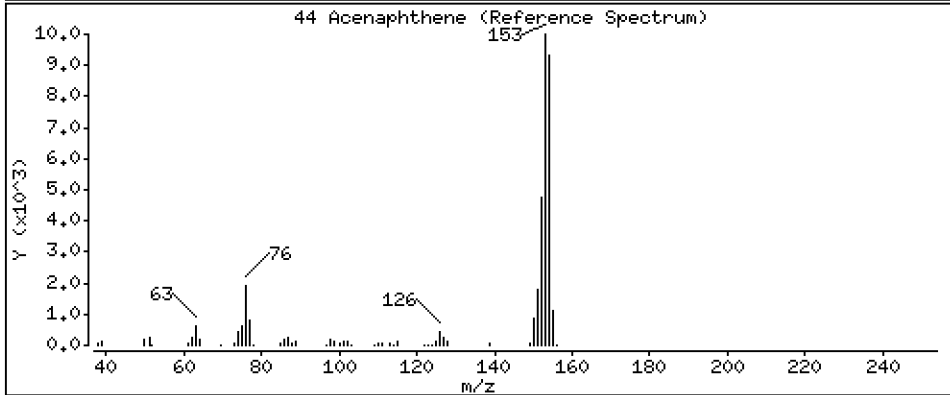
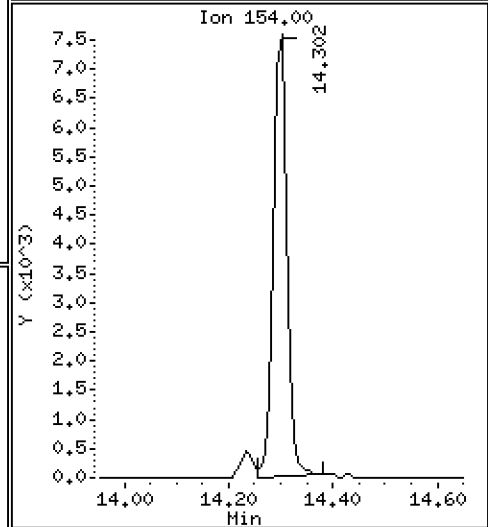
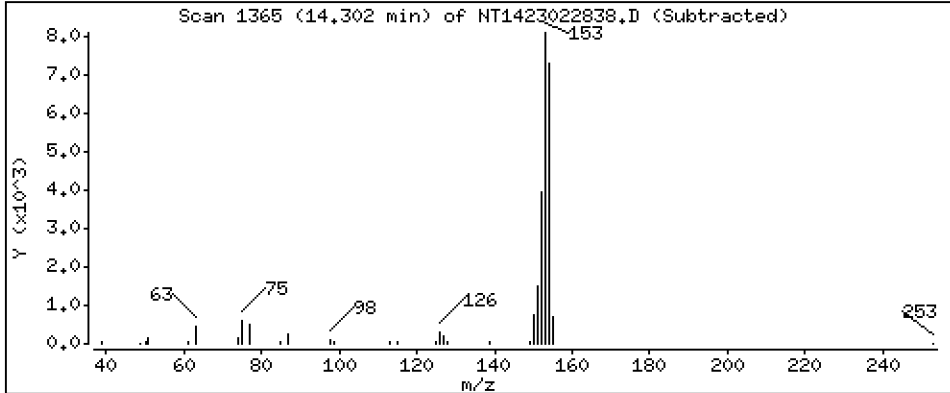
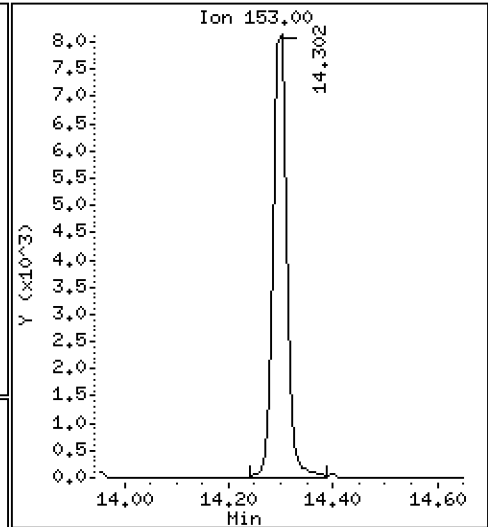
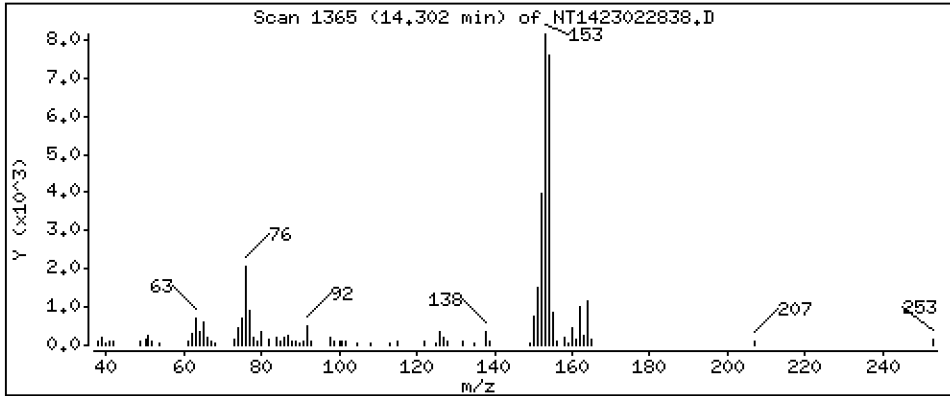
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,2124 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

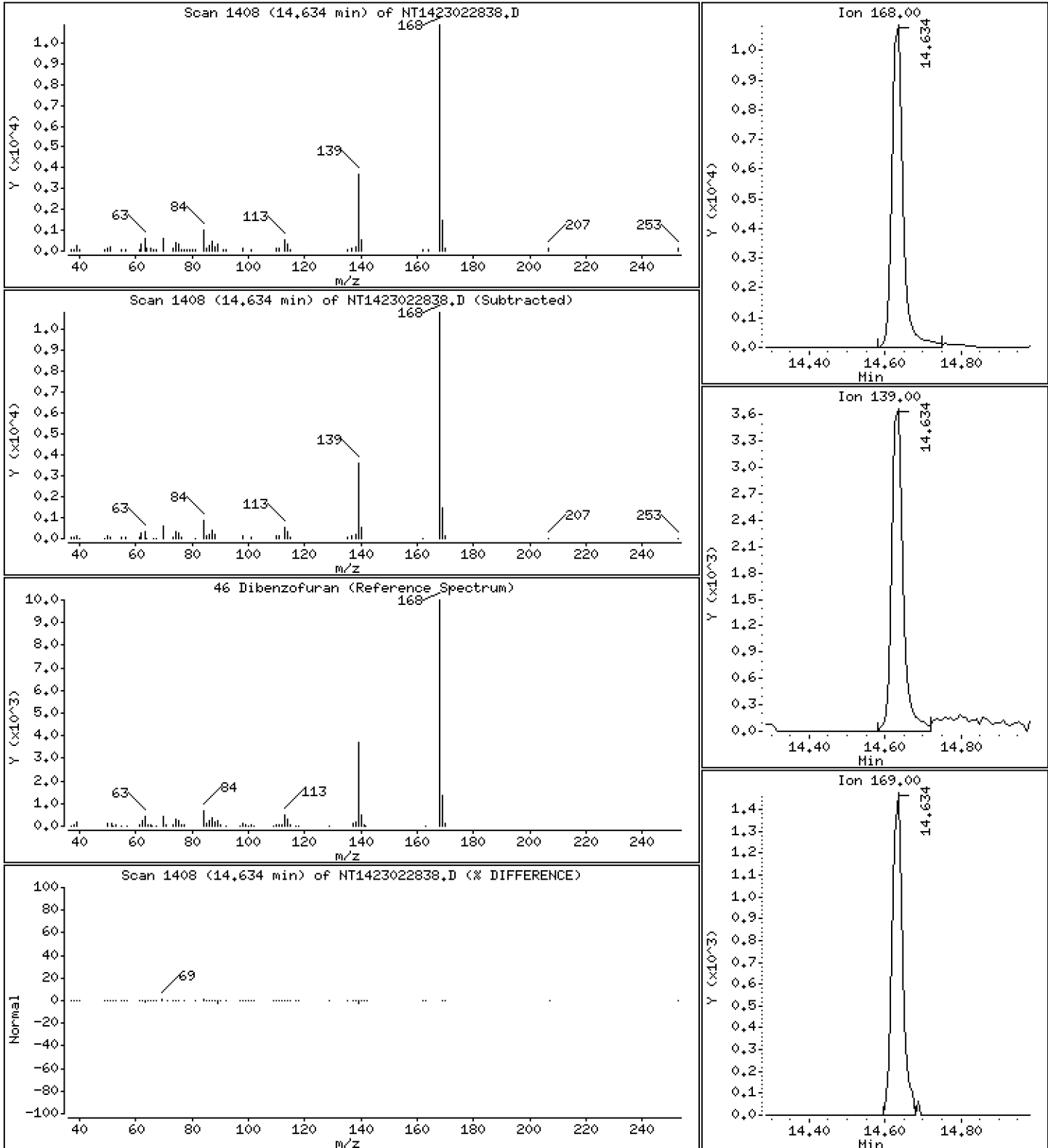
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,1981 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

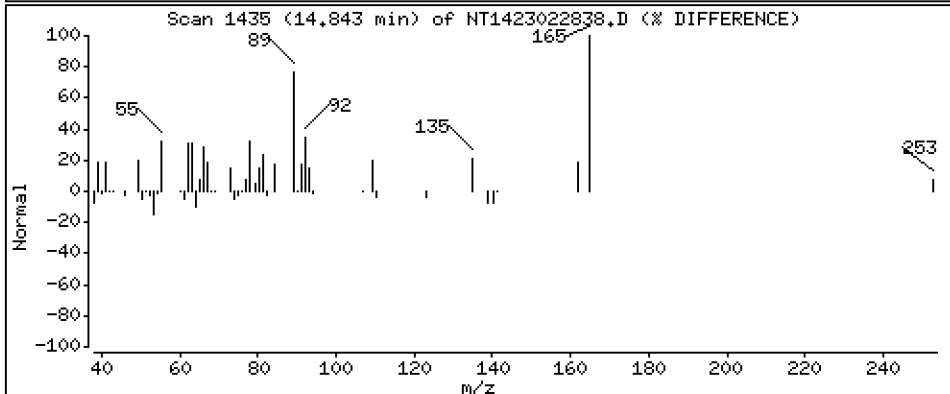
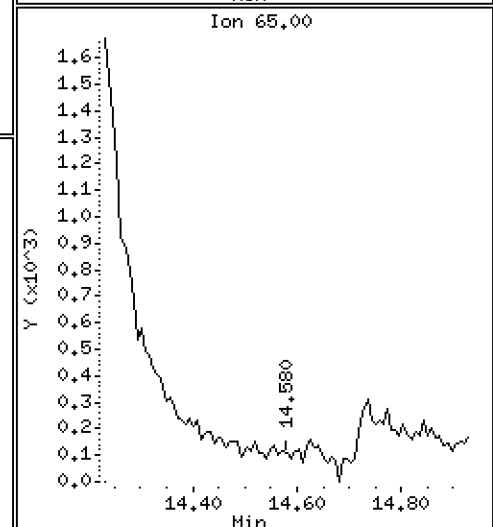
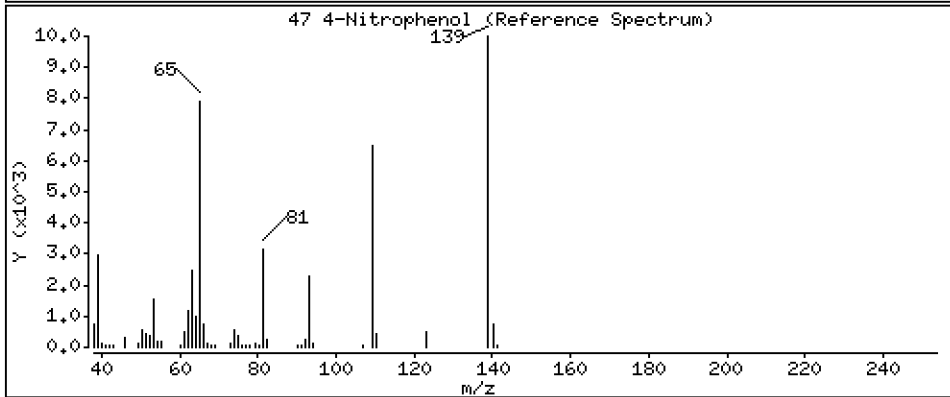
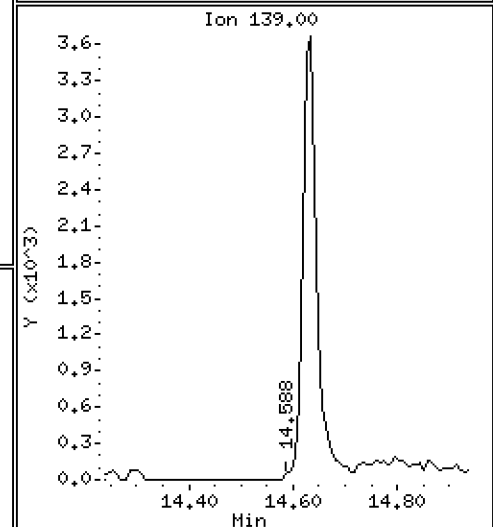
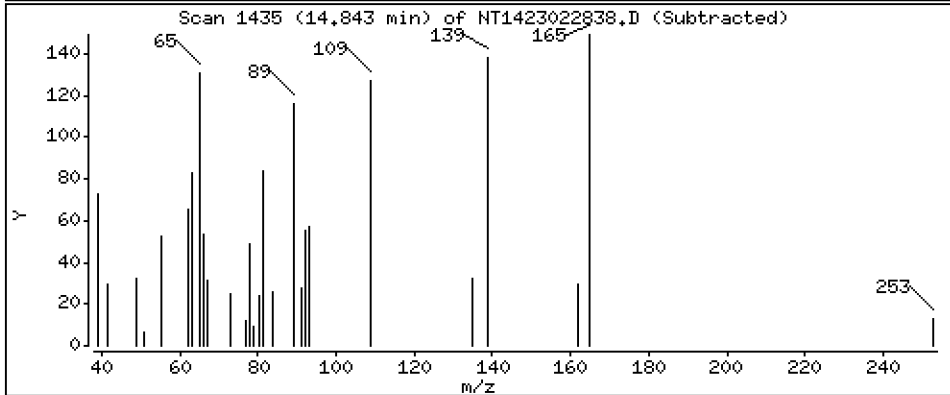
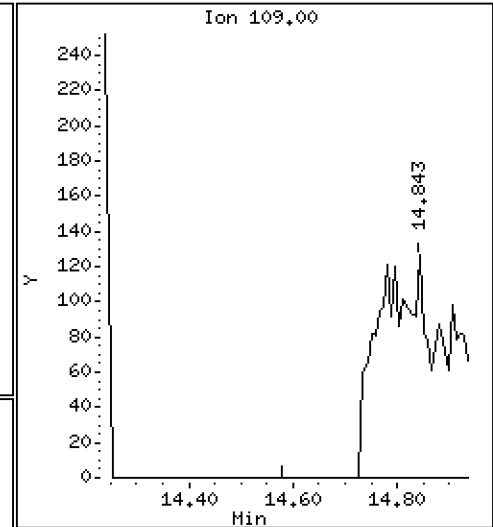
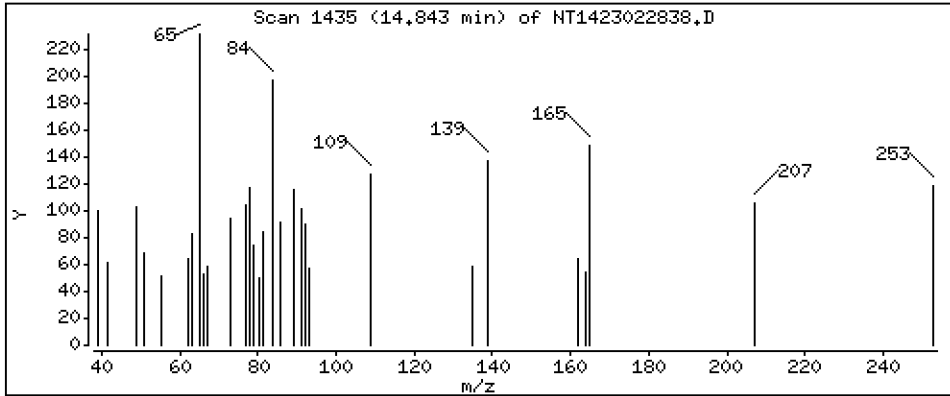
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,2077 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

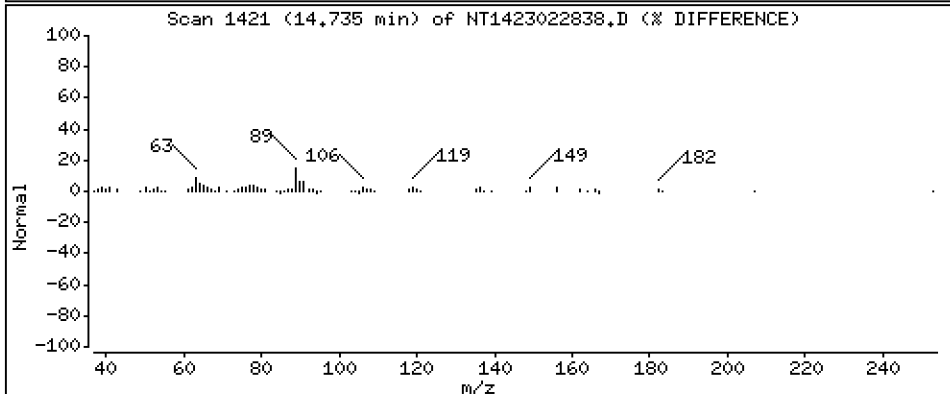
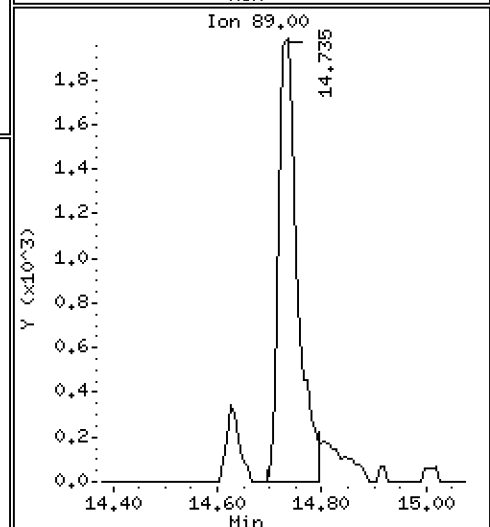
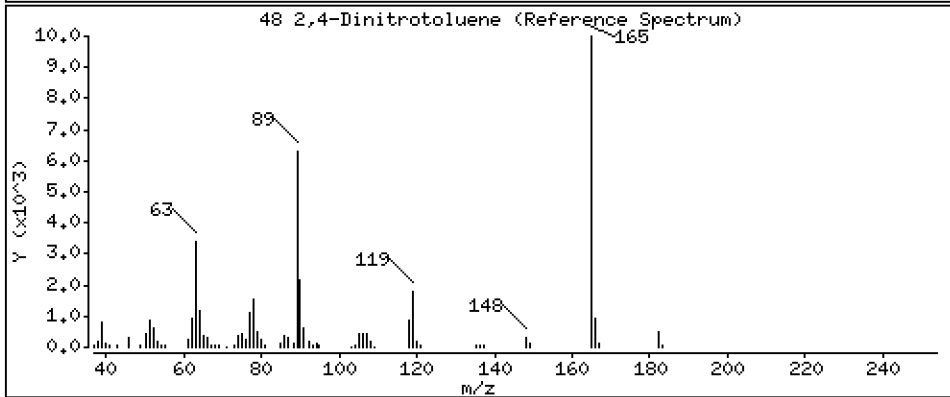
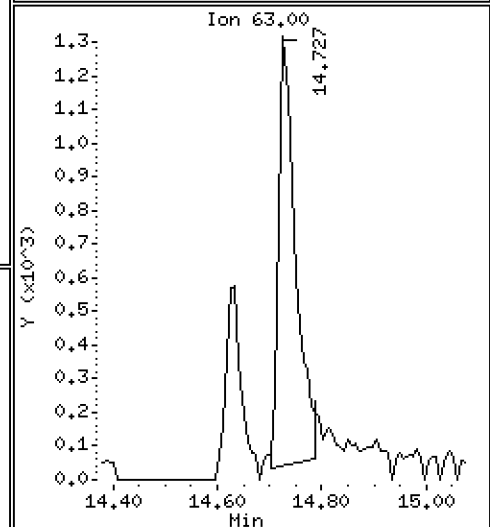
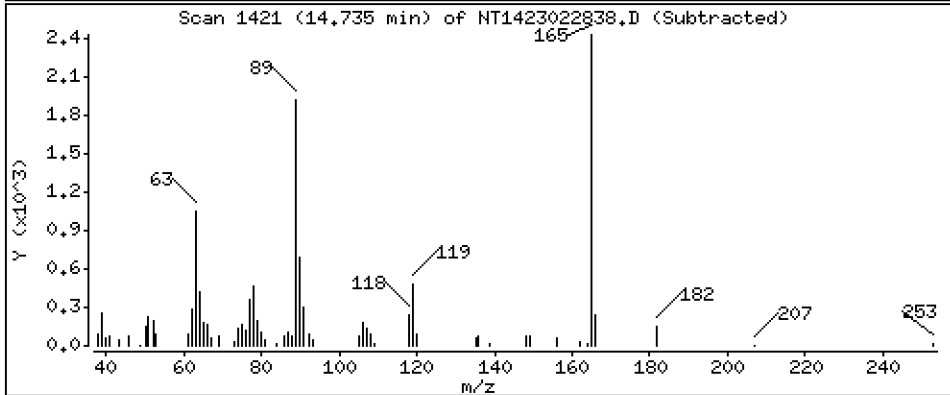
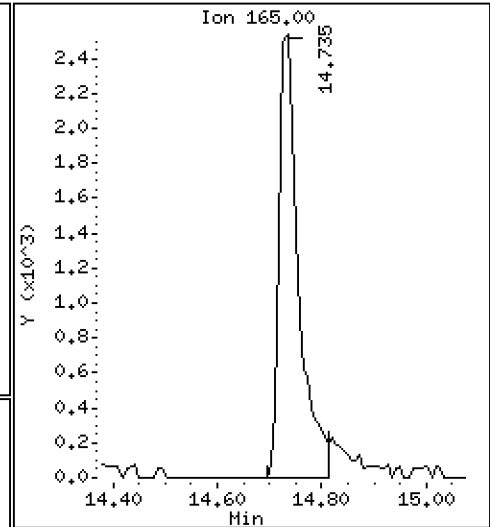
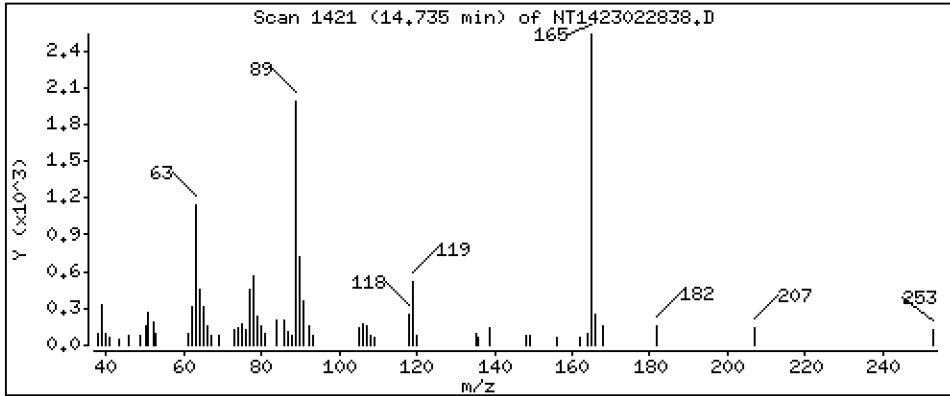
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.2661 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

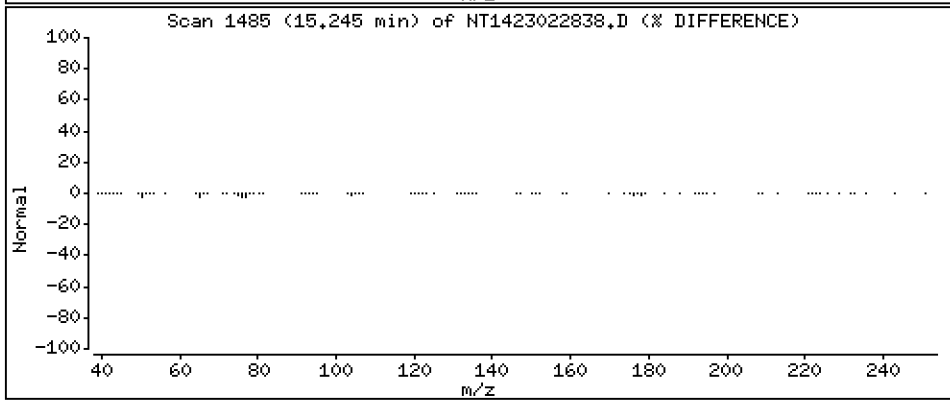
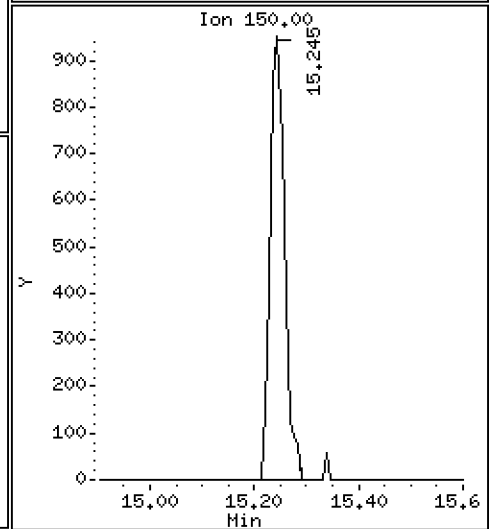
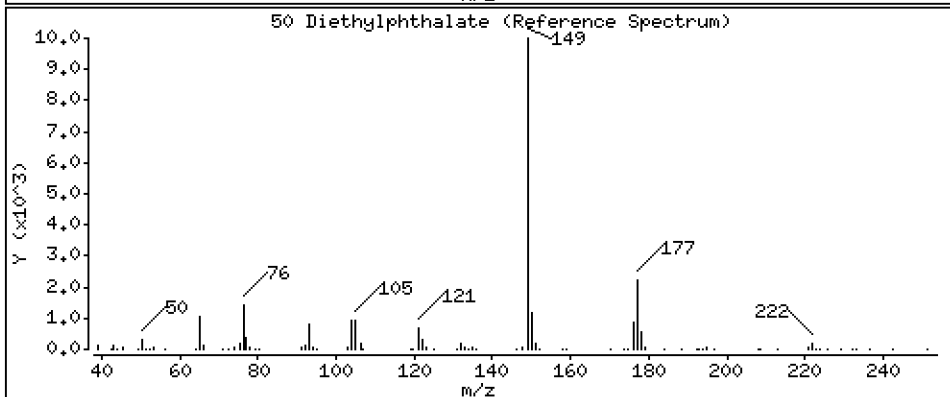
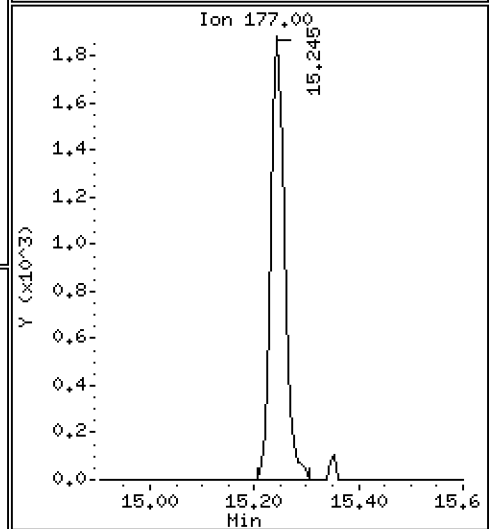
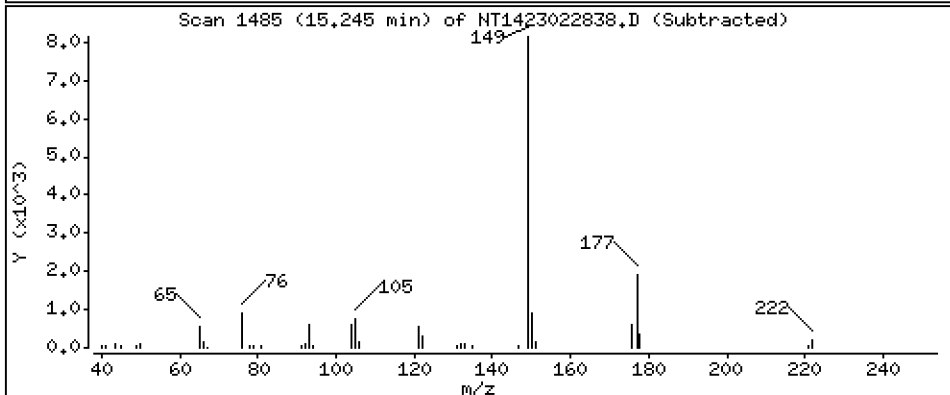
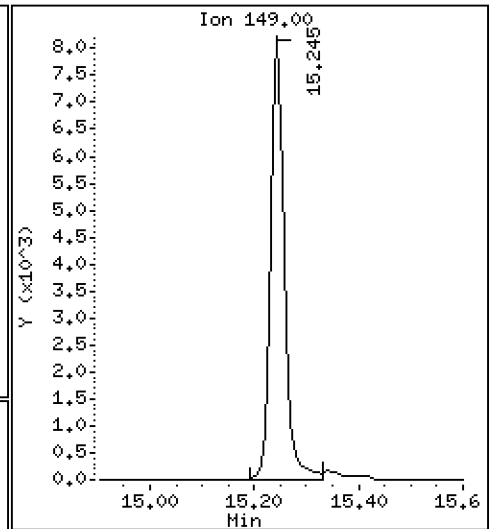
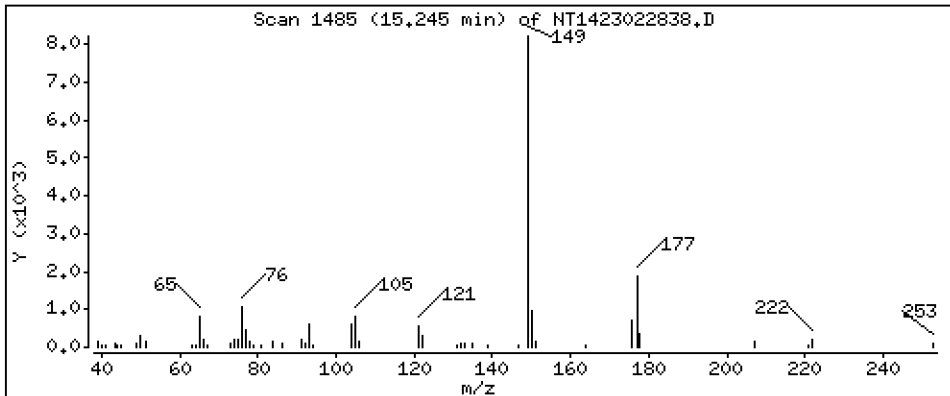
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2122 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

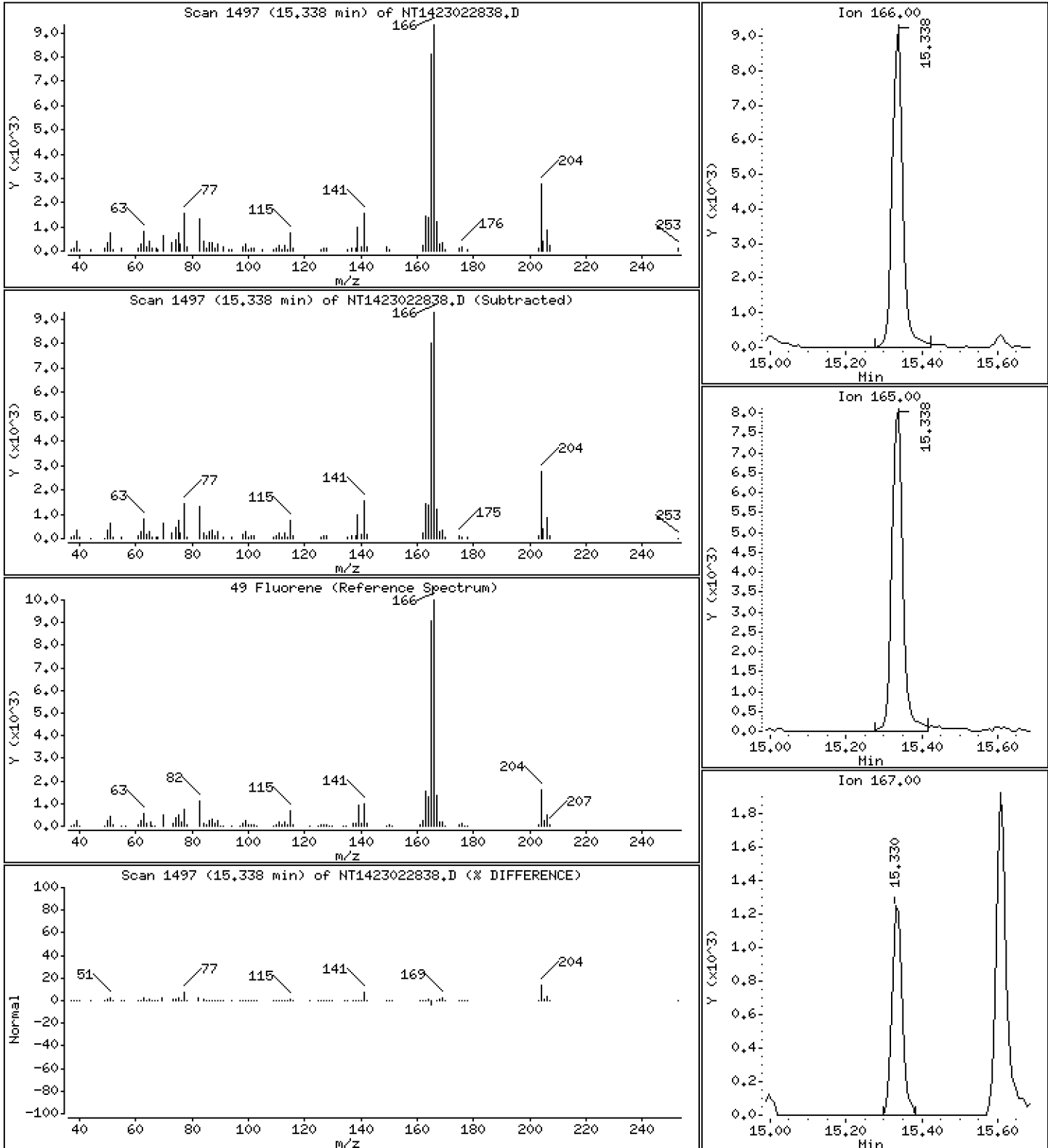
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,2128 ug/mL





Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

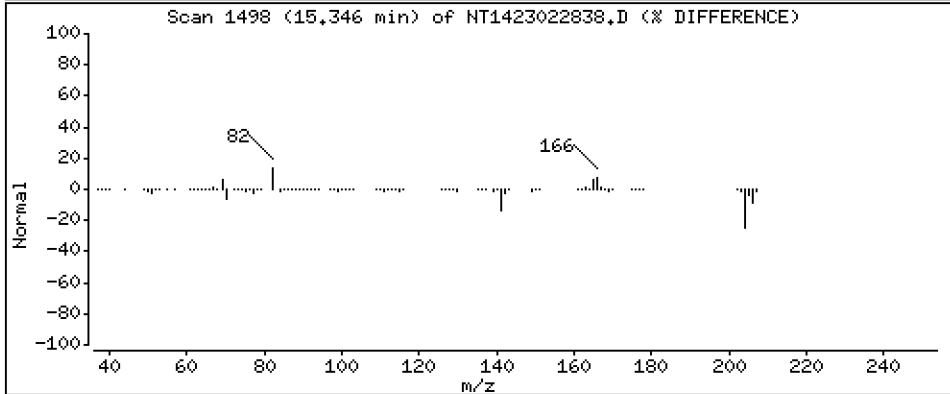
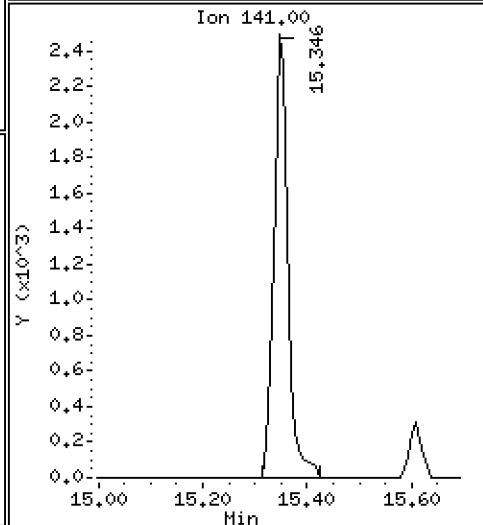
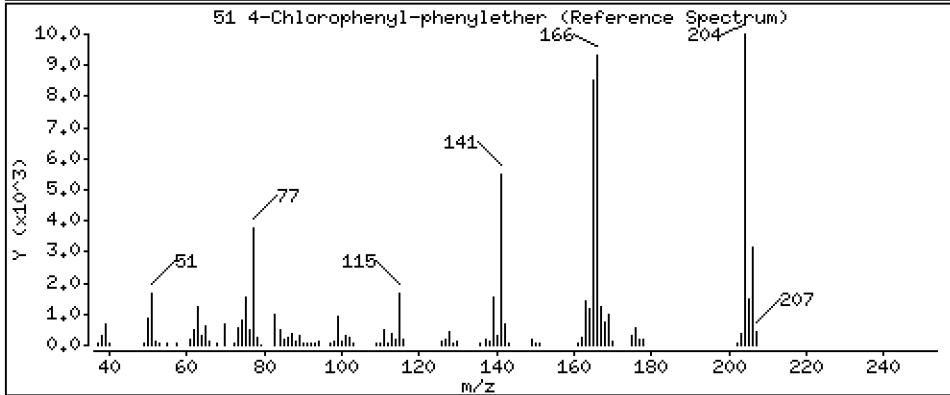
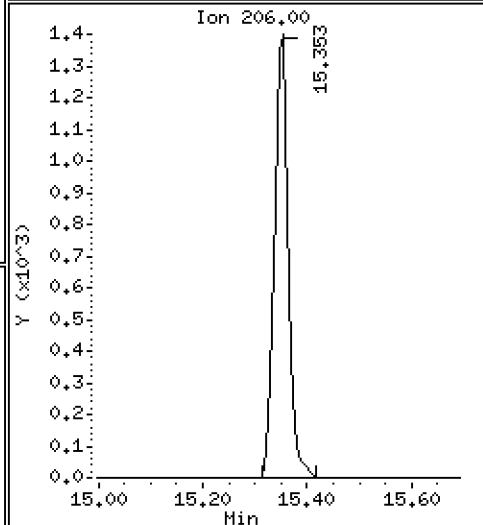
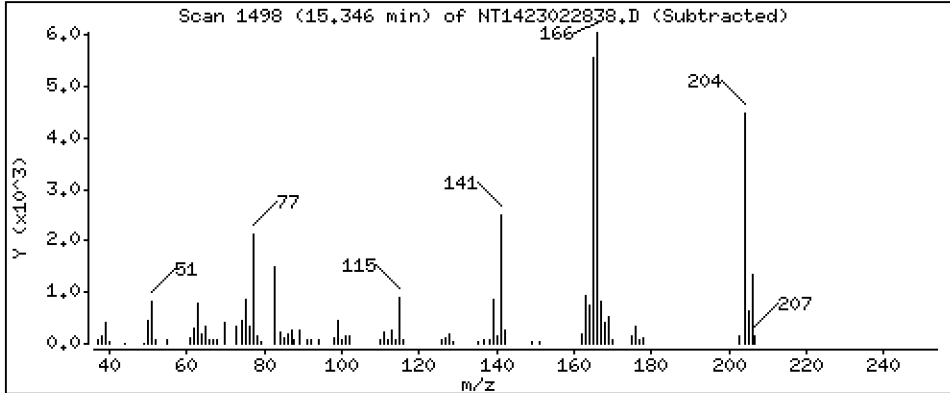
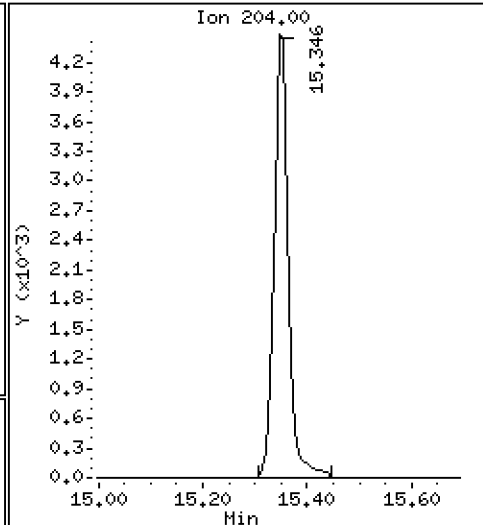
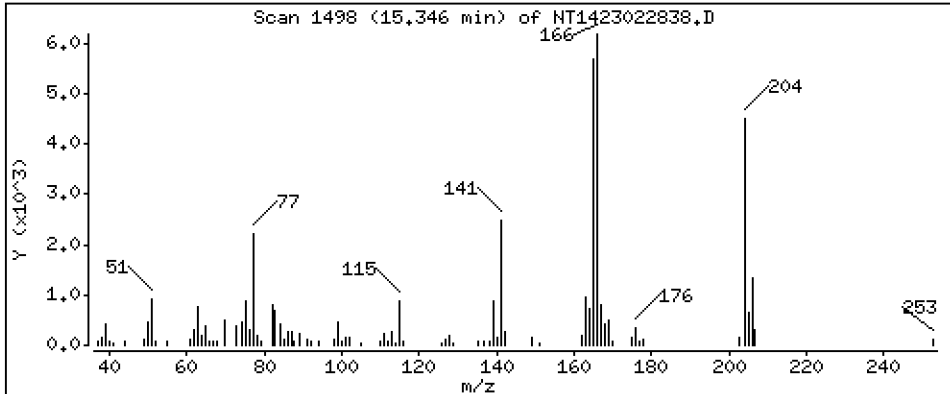
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,1967 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

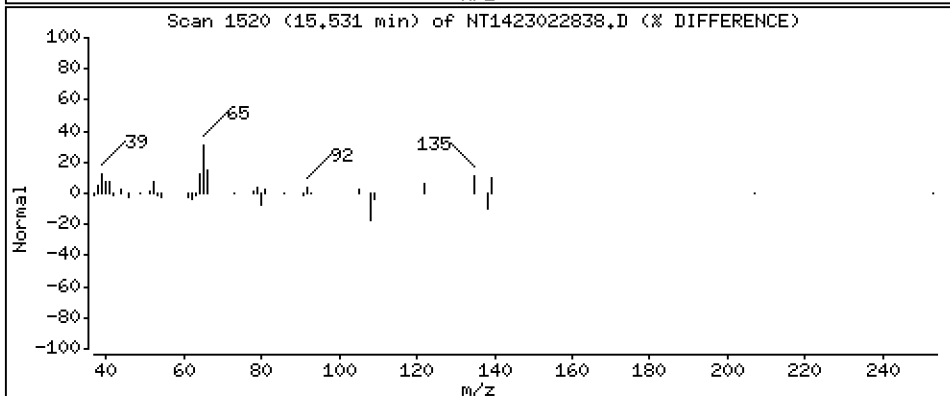
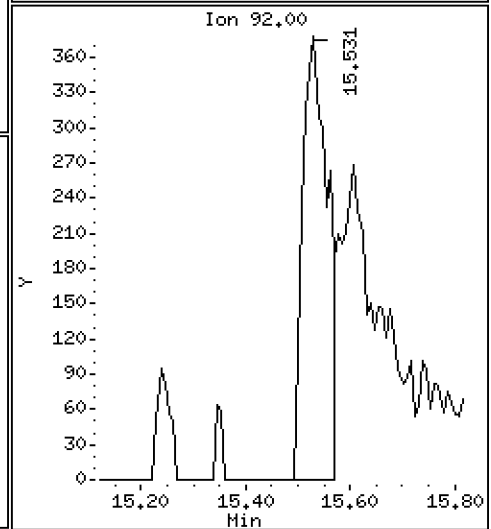
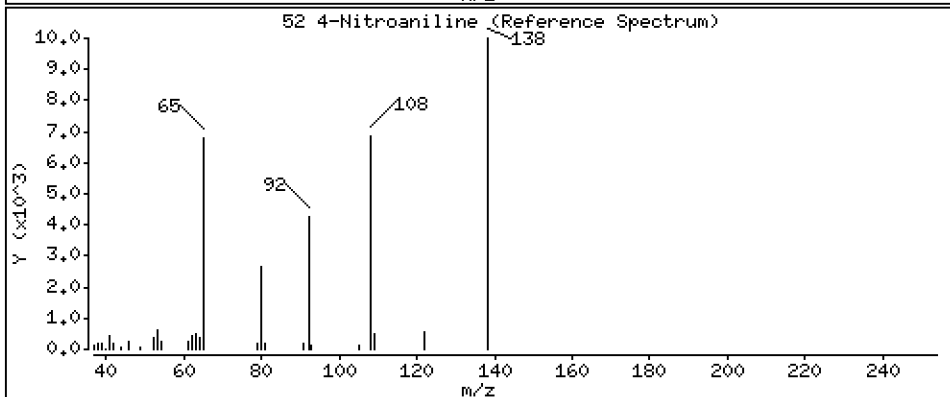
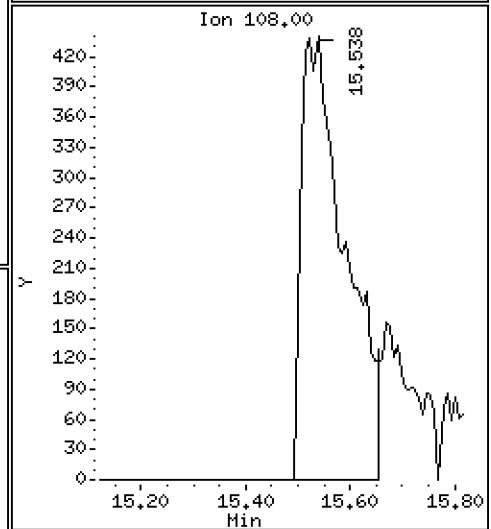
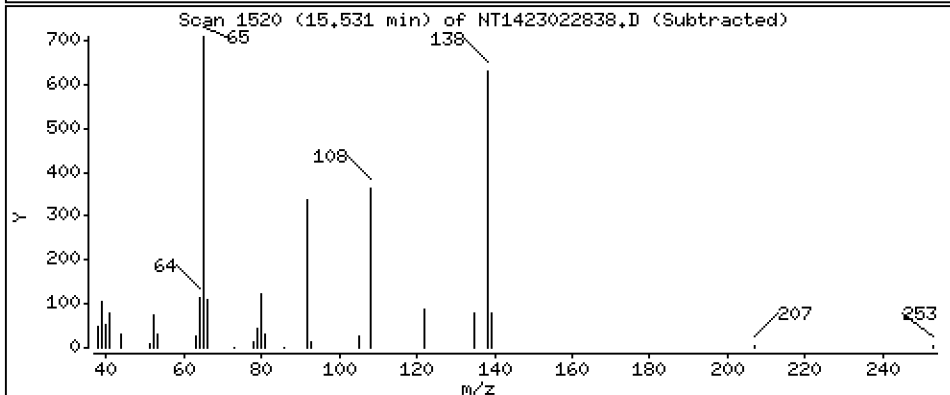
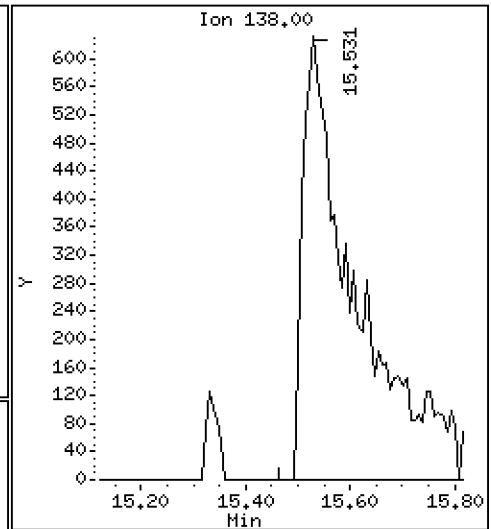
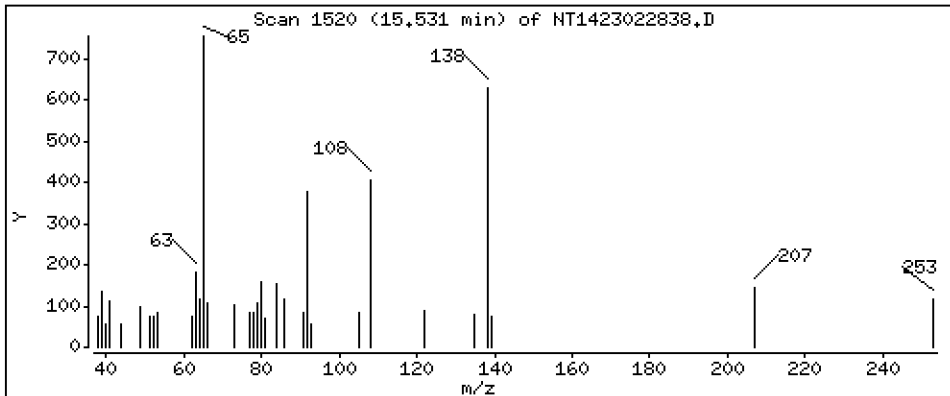
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,2698 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

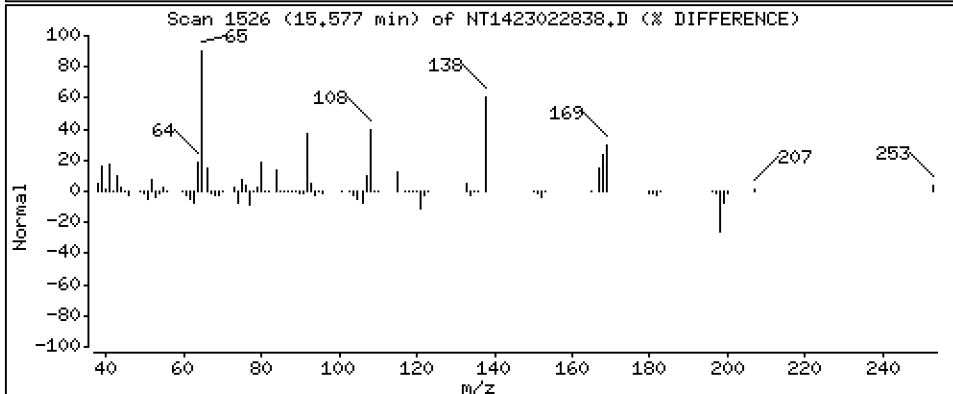
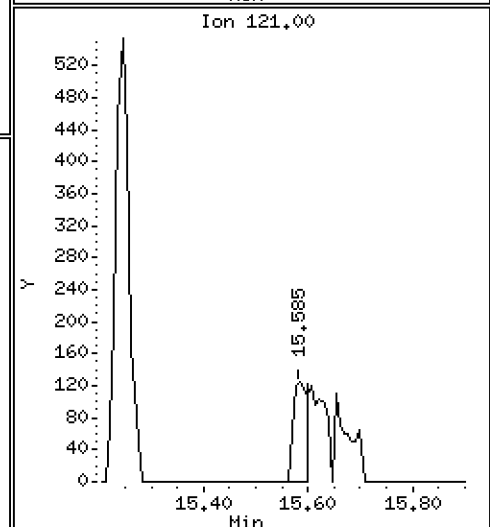
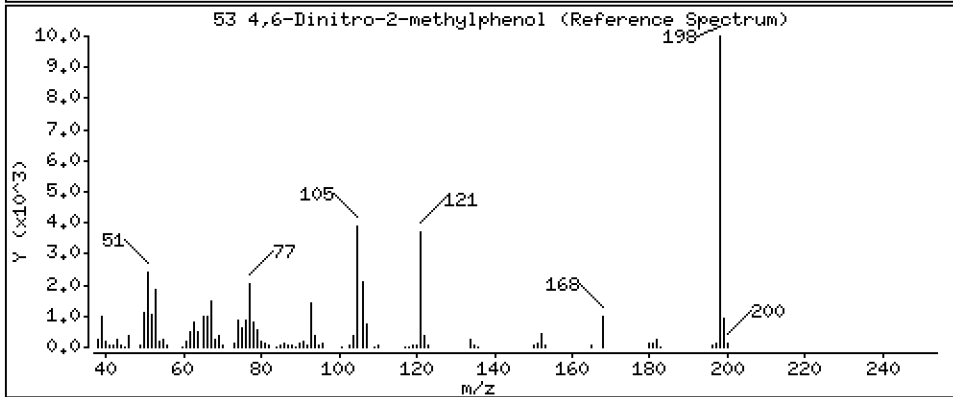
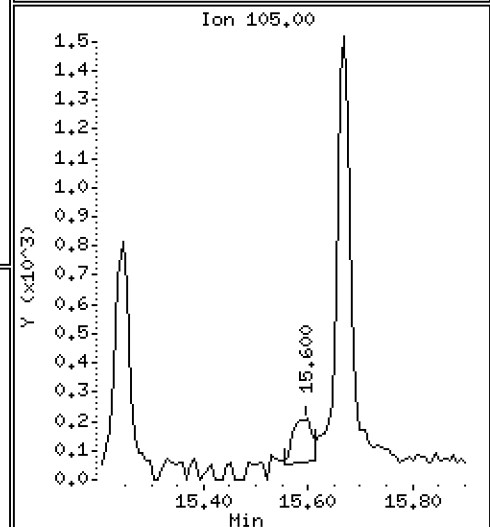
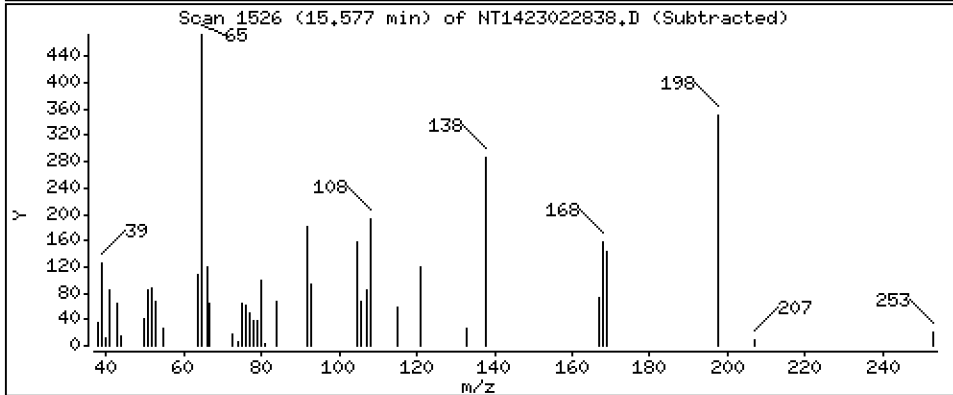
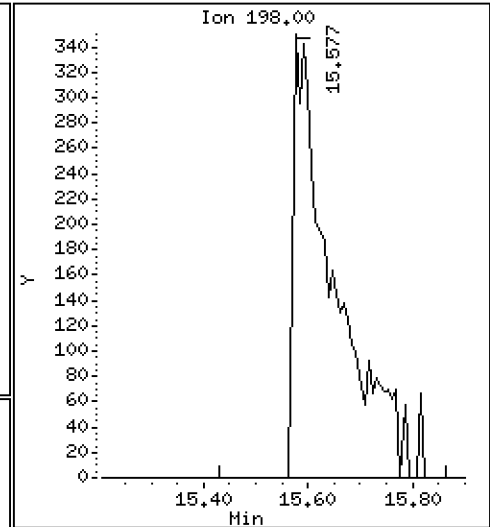
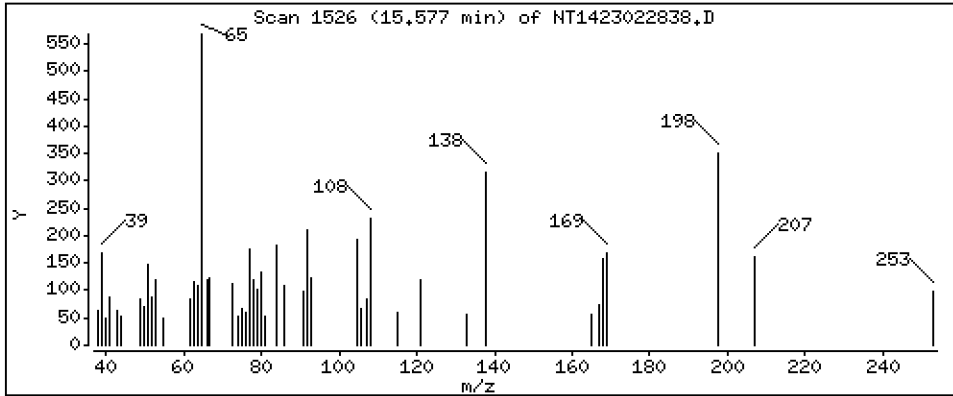
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,1394 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

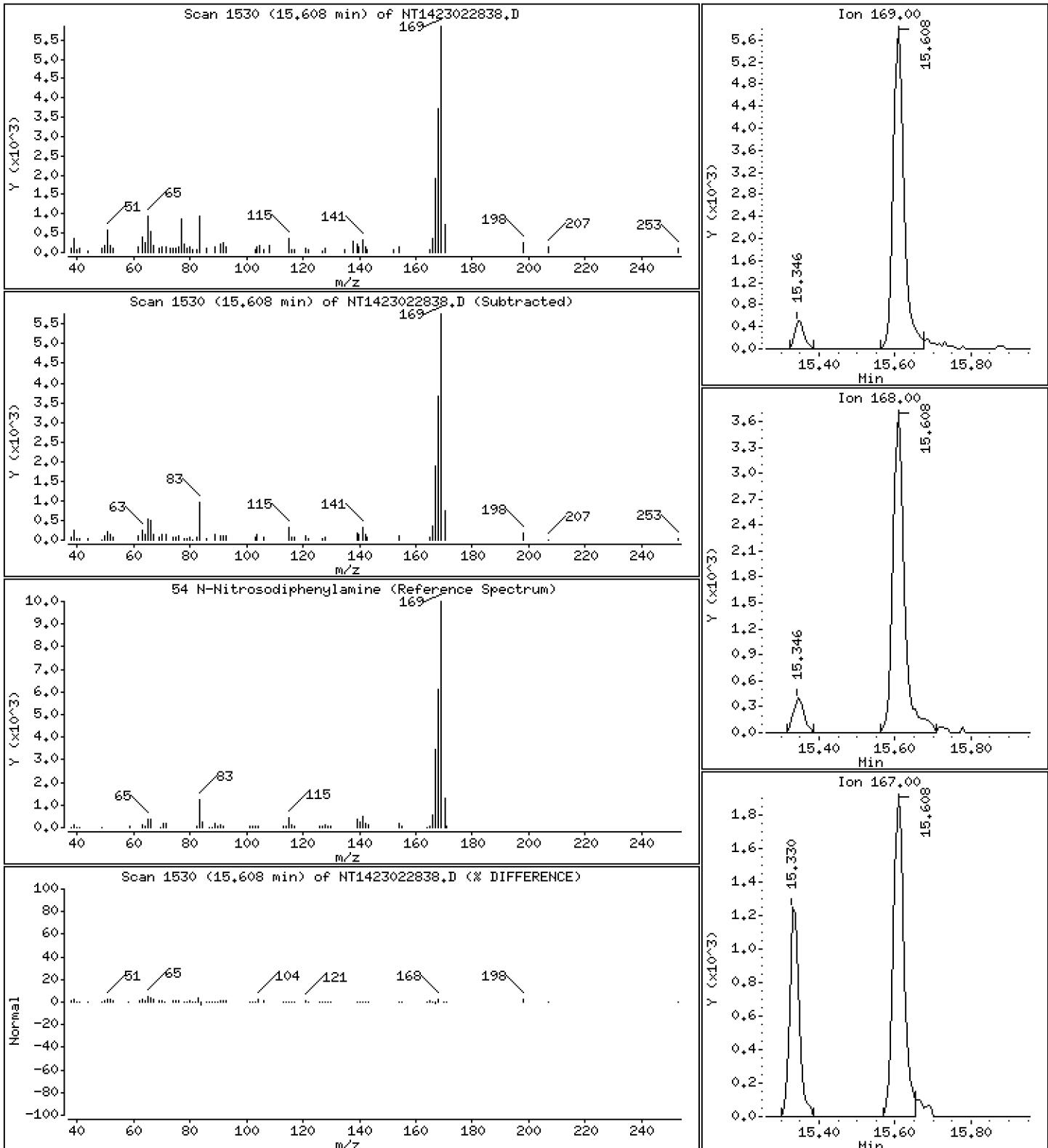
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,2107 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

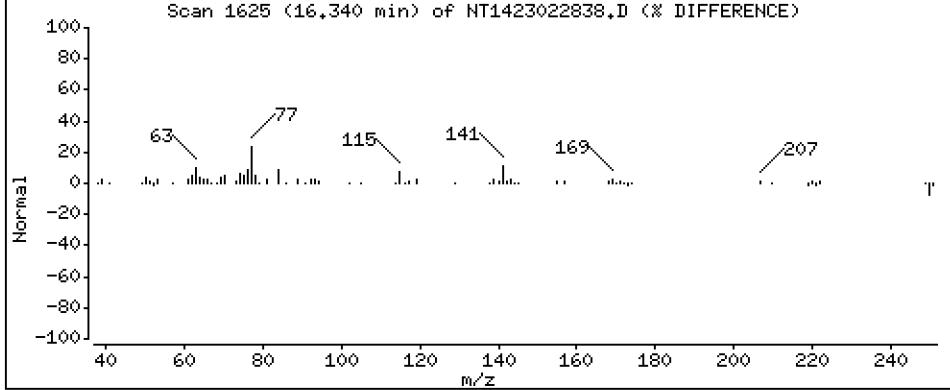
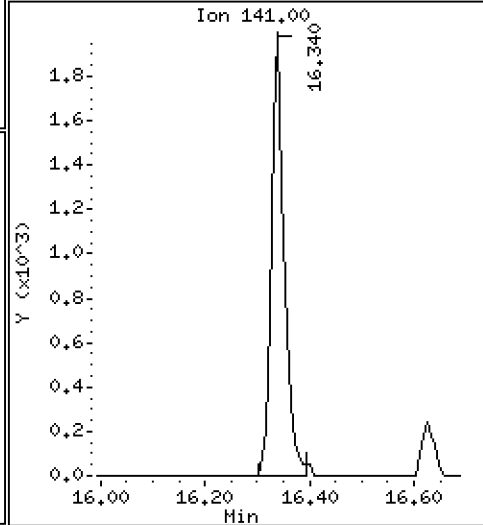
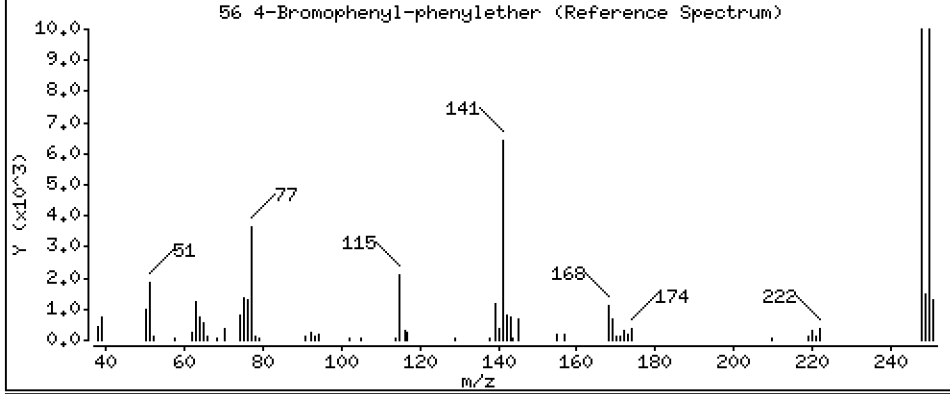
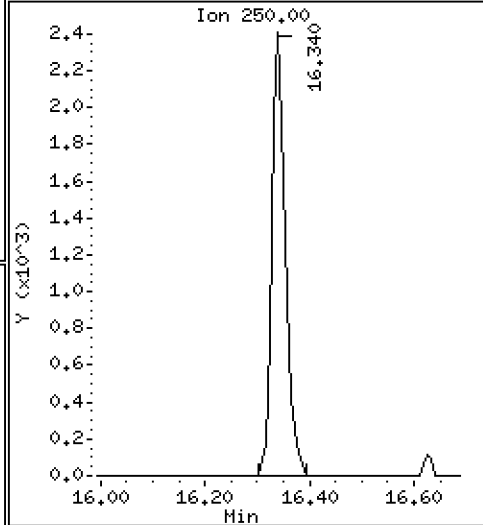
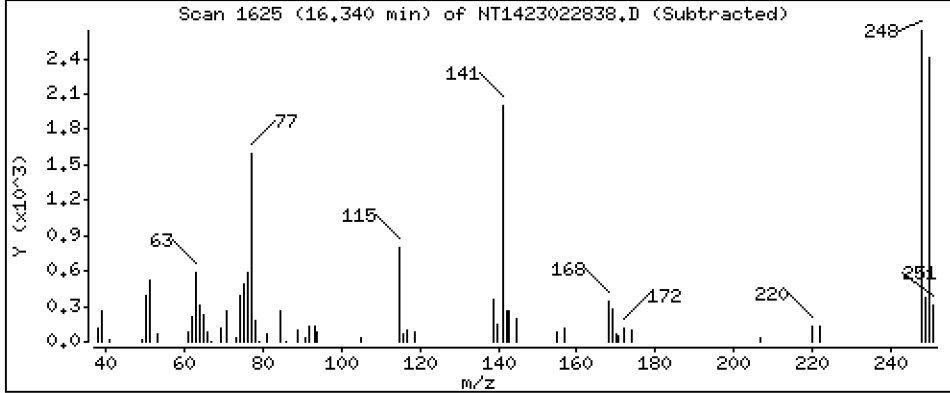
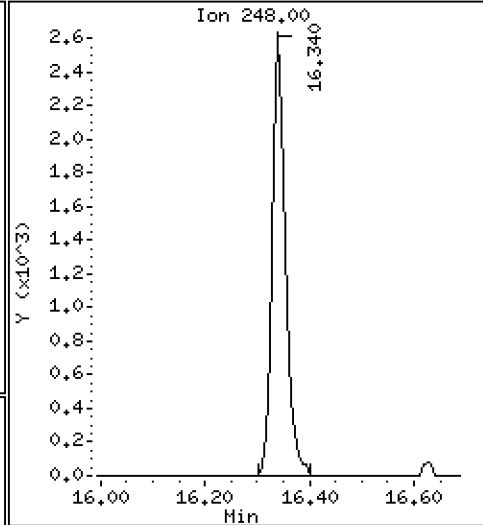
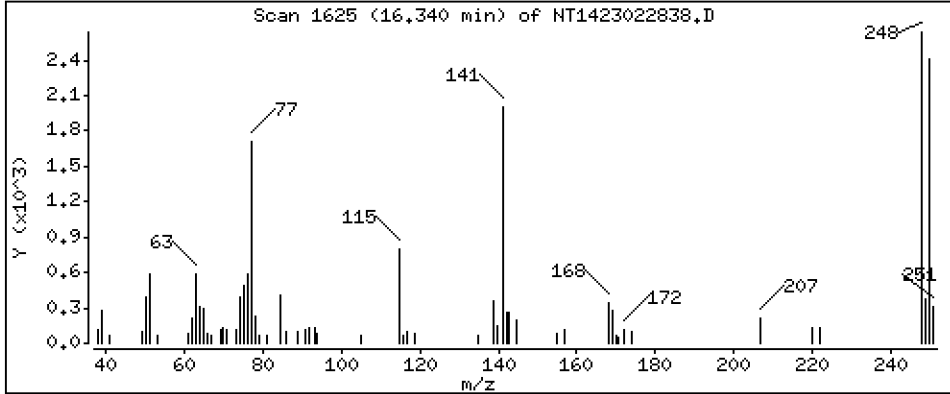
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,1947 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

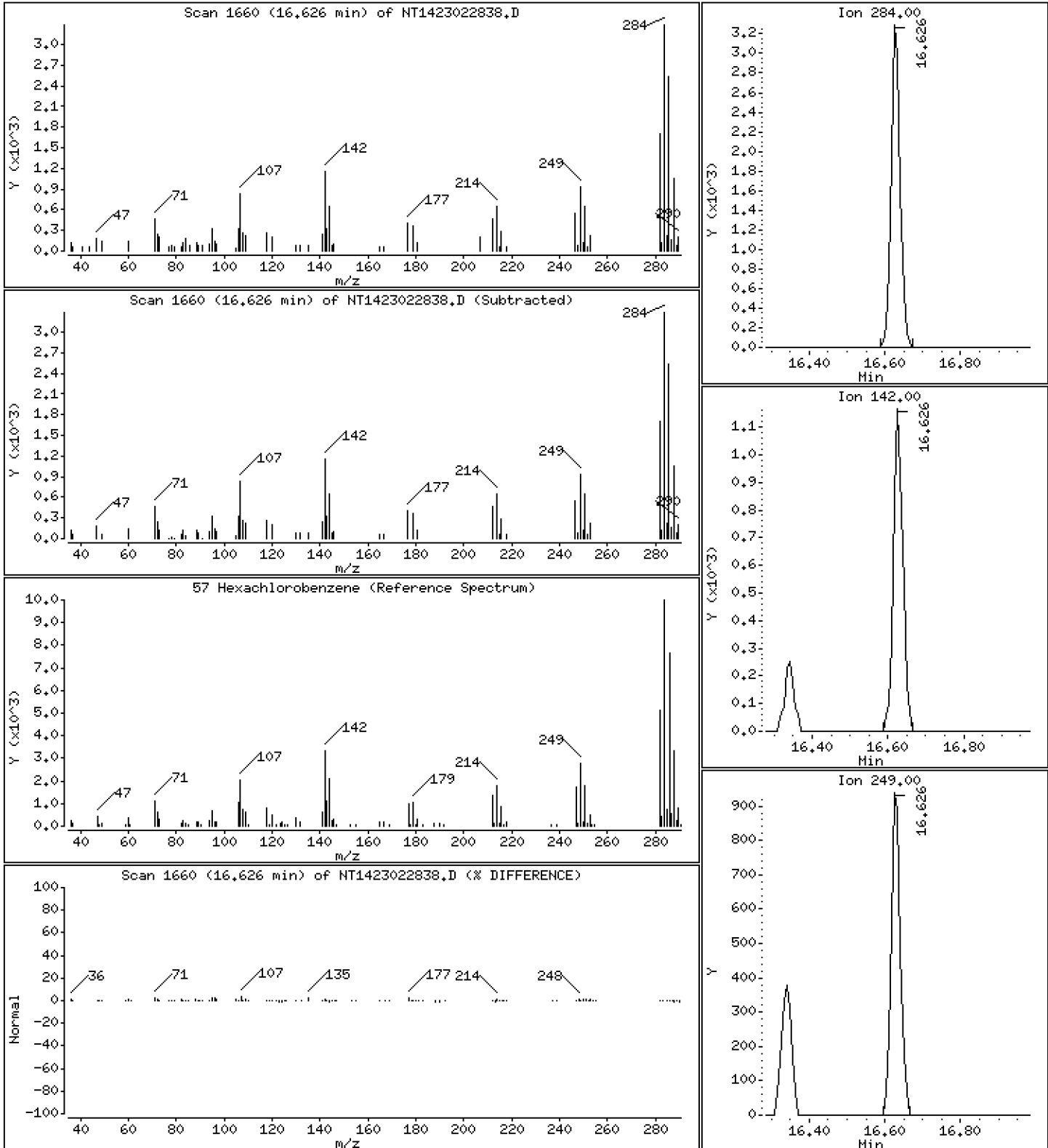
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 0.2130 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

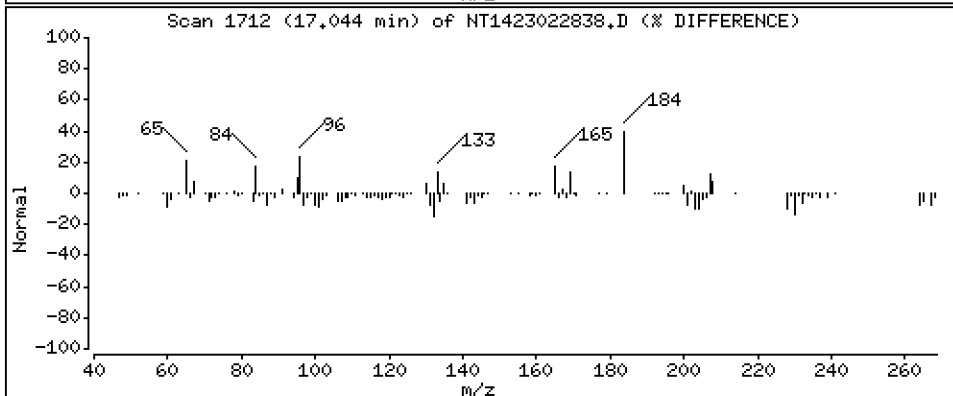
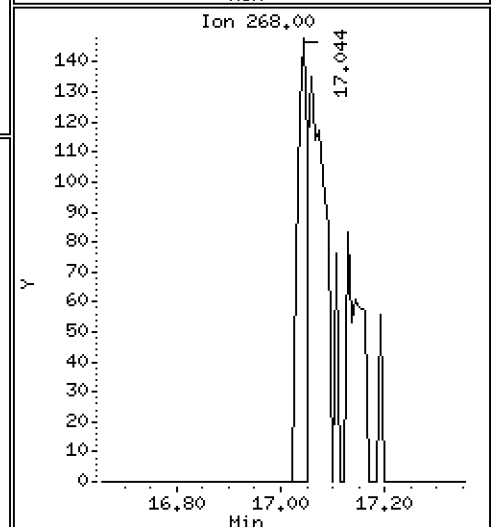
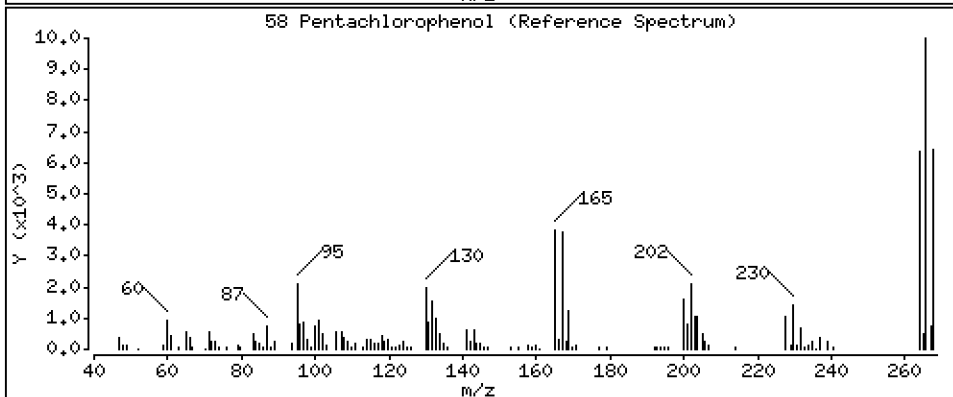
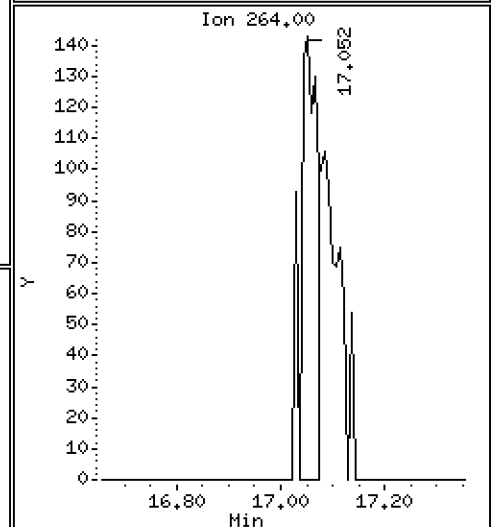
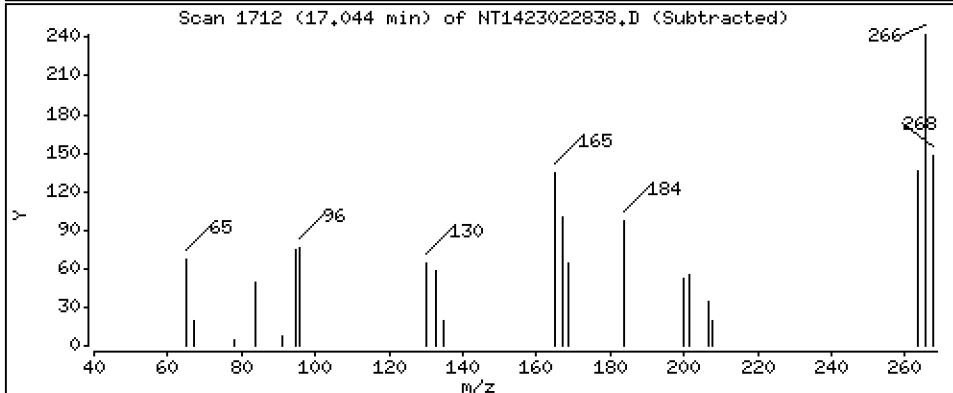
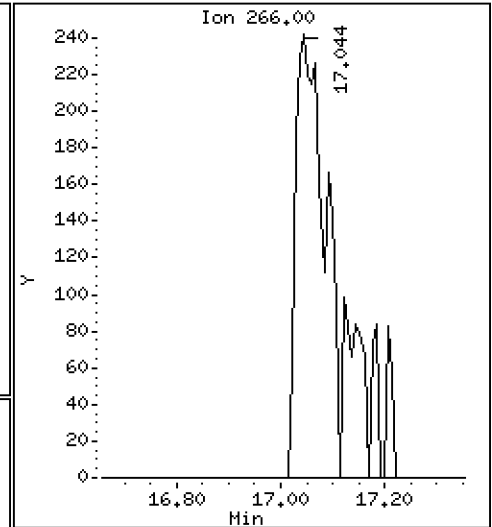
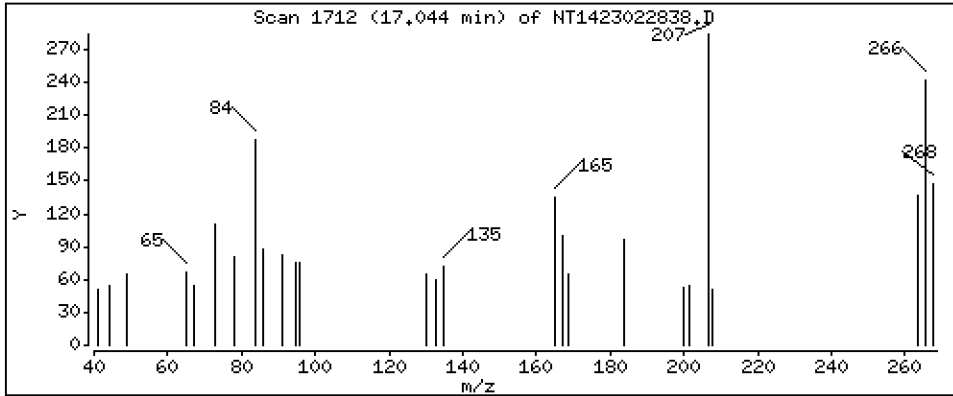
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,1123 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

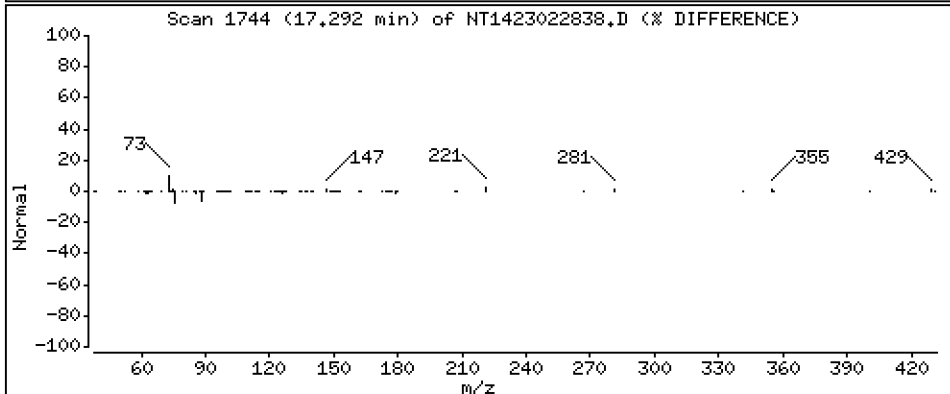
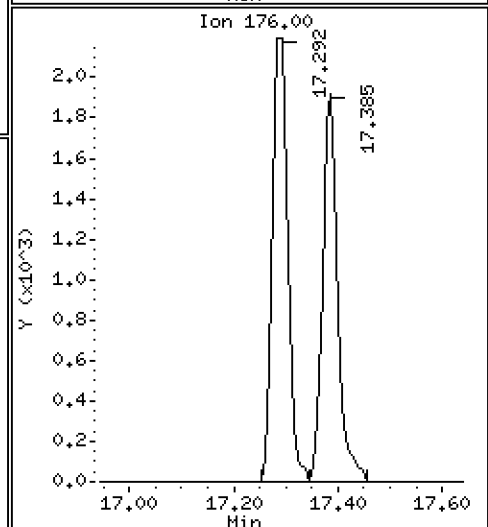
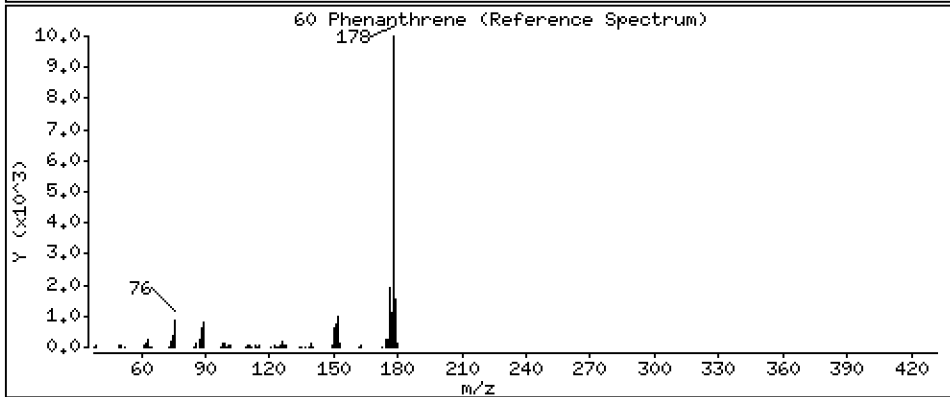
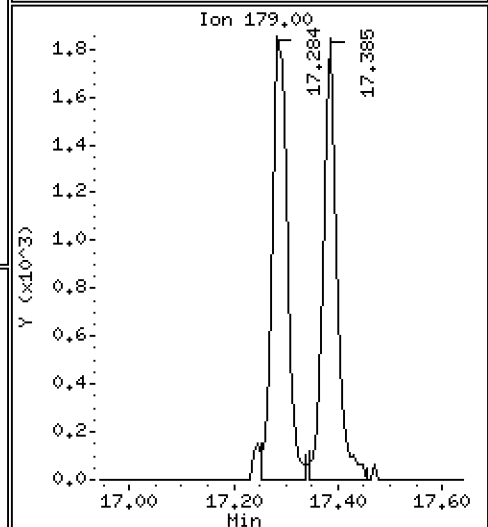
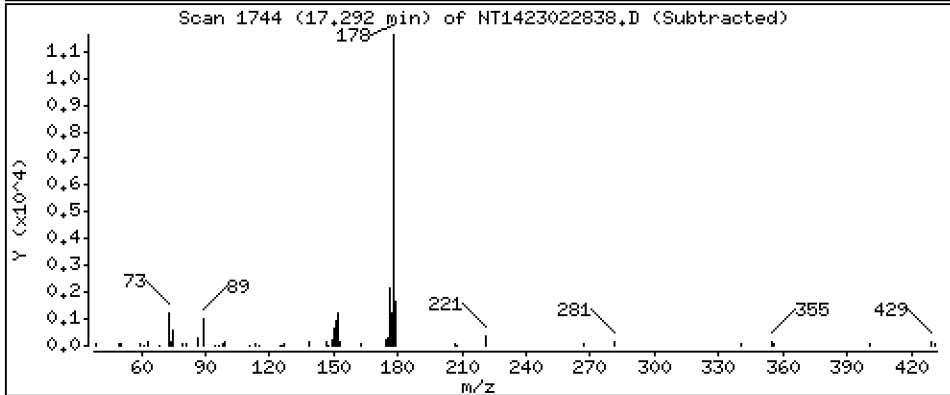
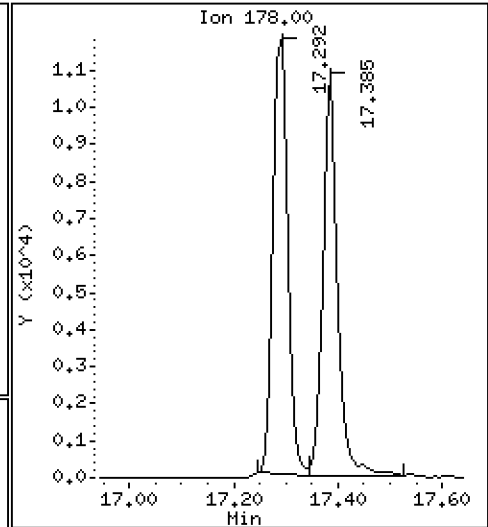
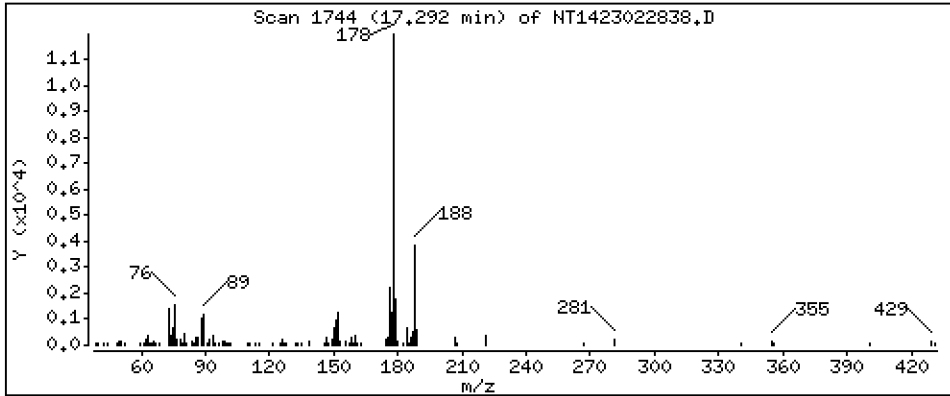
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,2004 ug/mL





Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

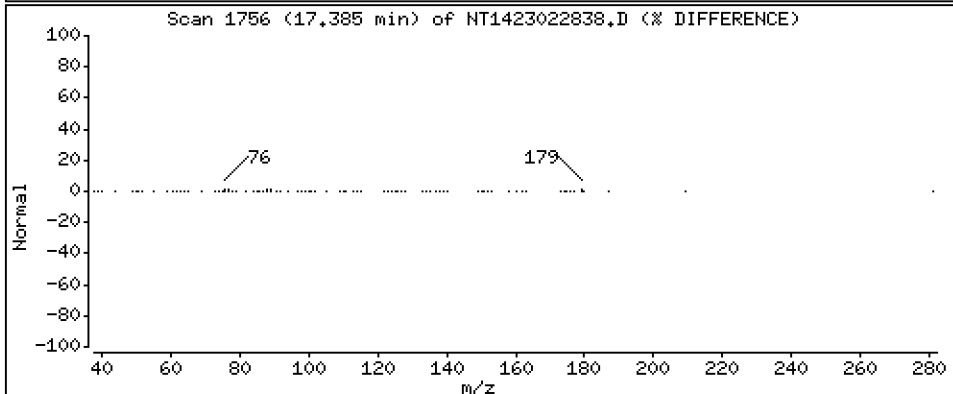
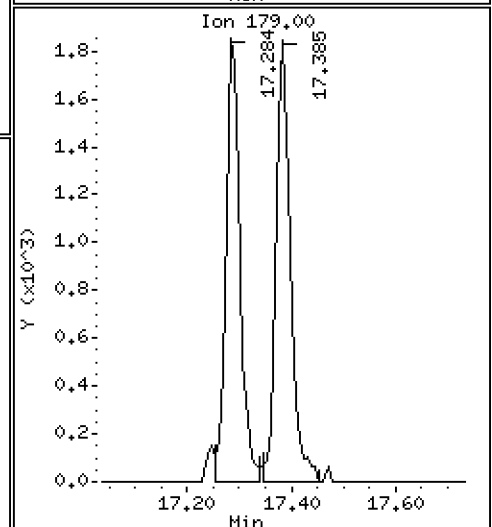
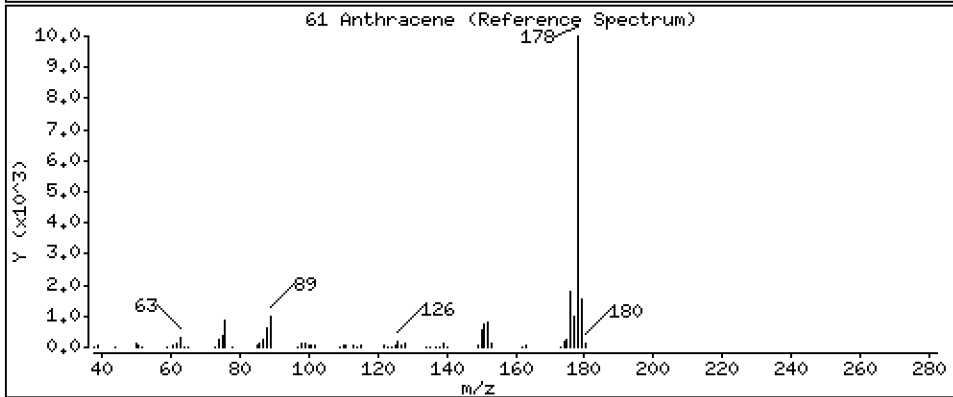
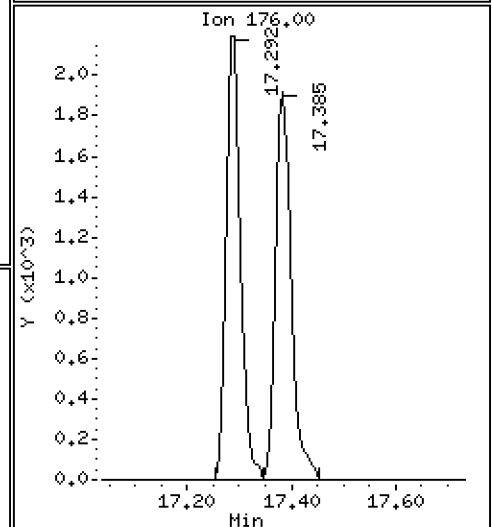
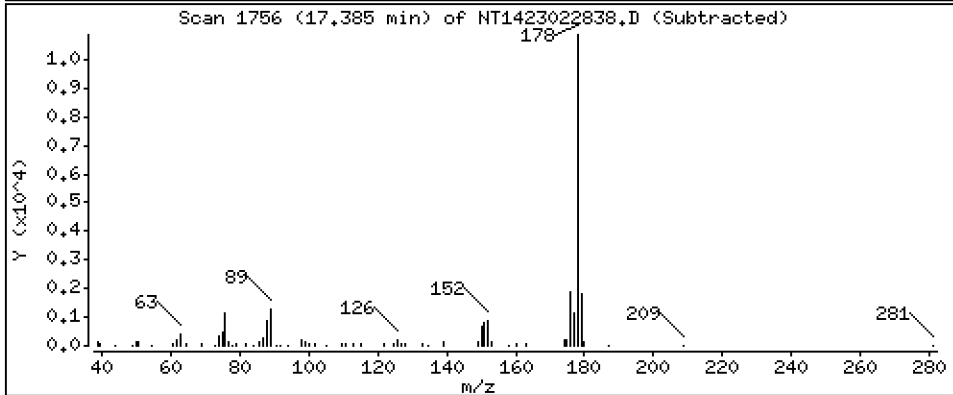
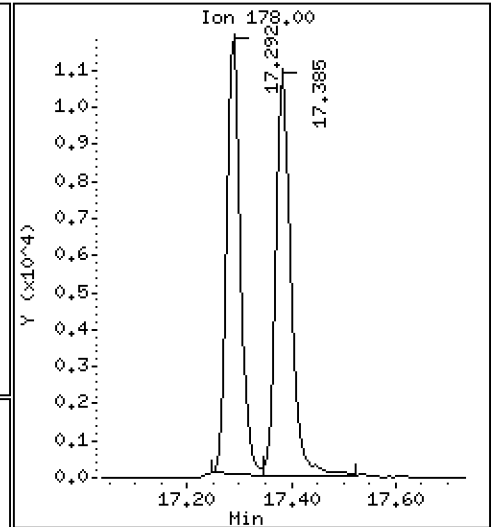
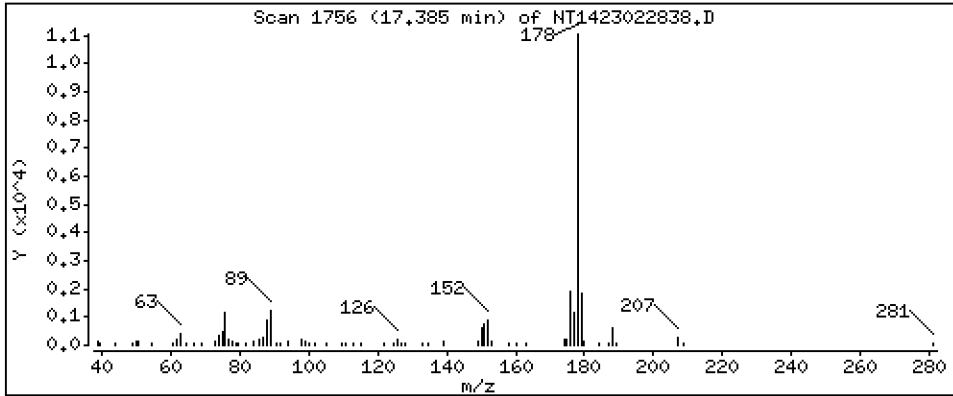
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2011 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

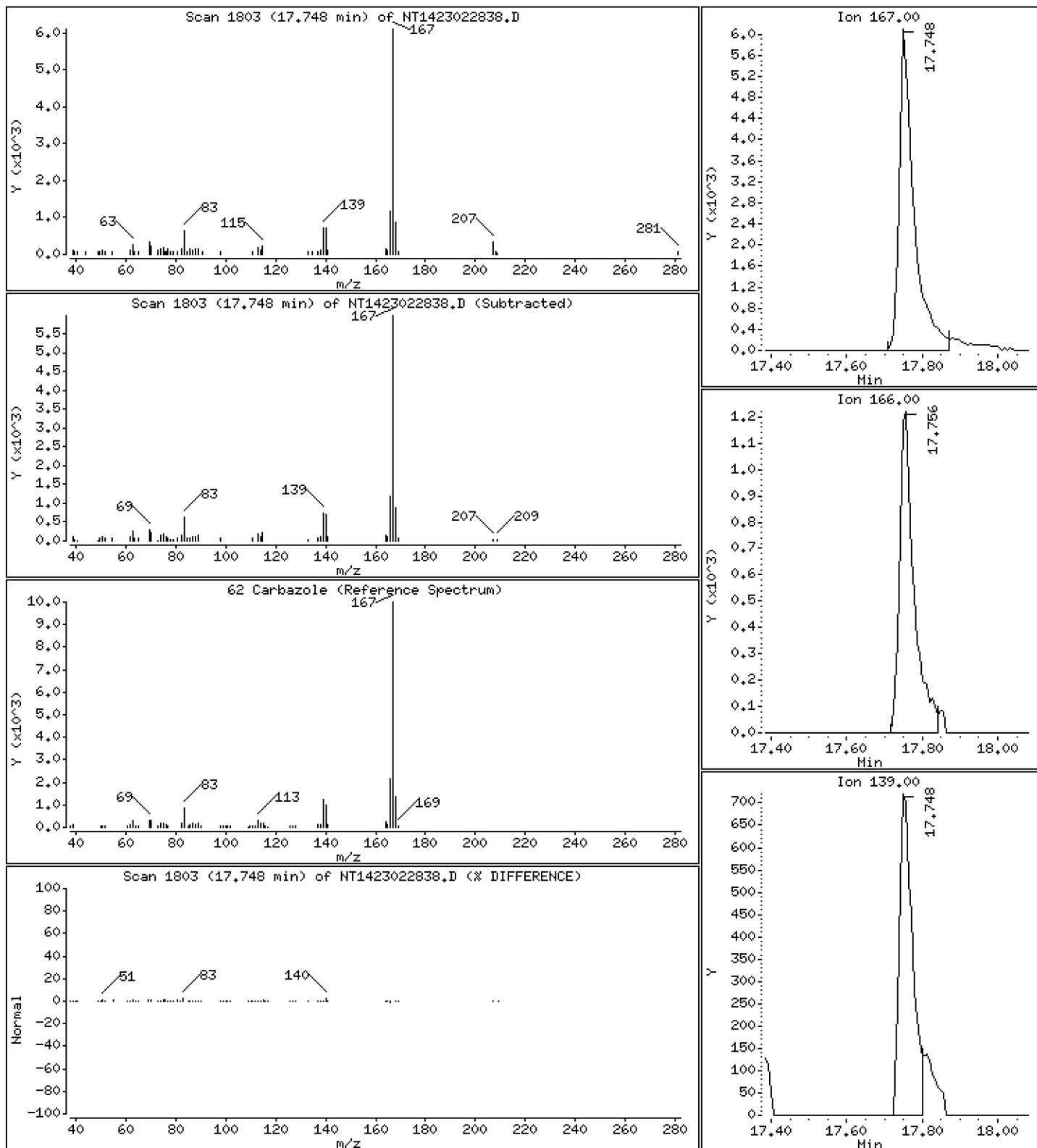
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1835 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

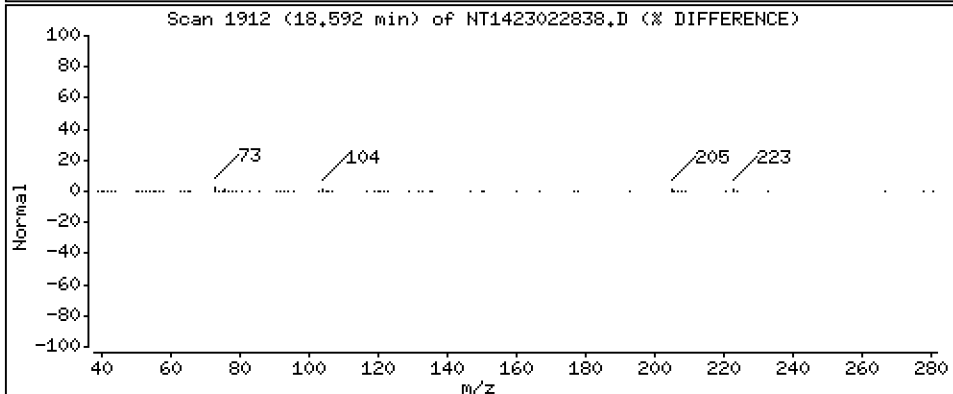
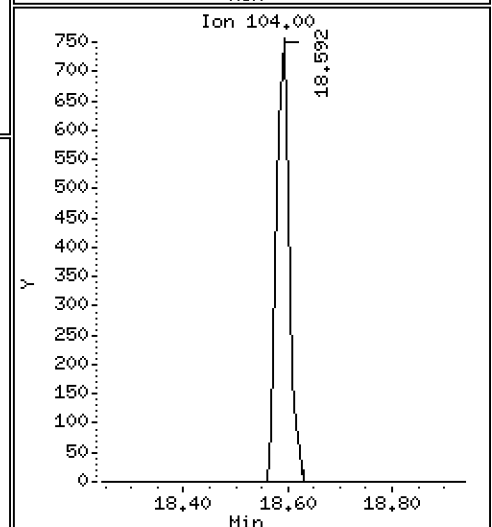
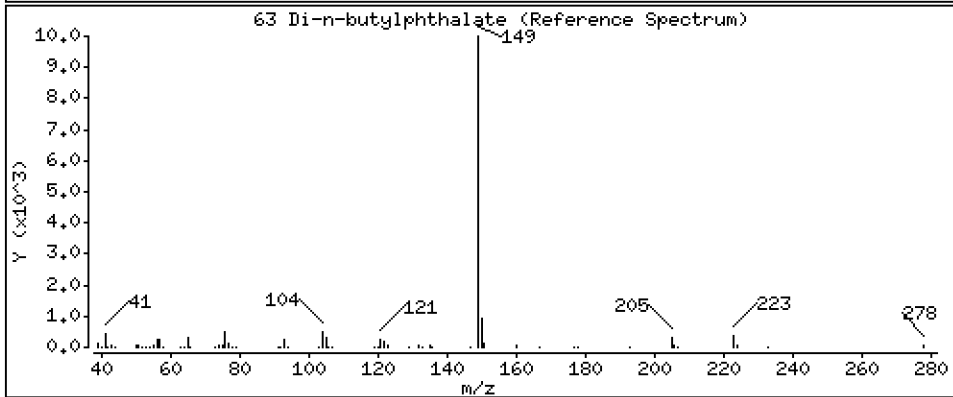
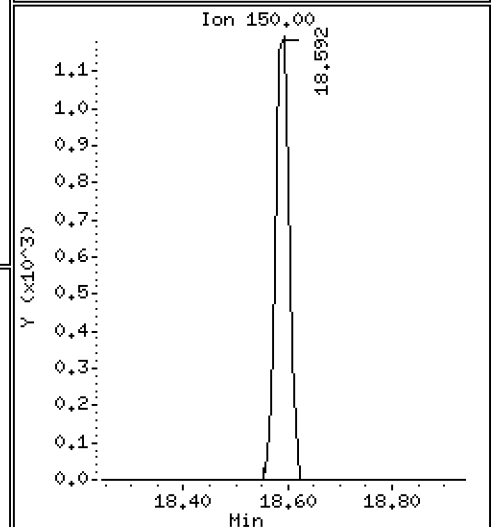
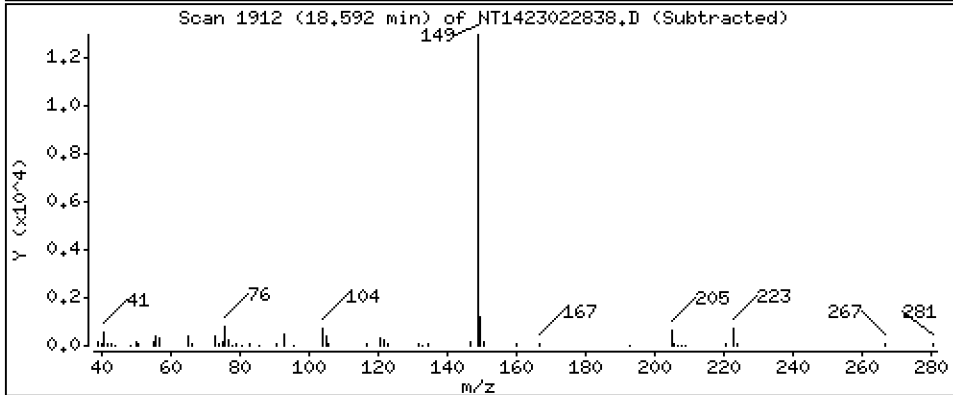
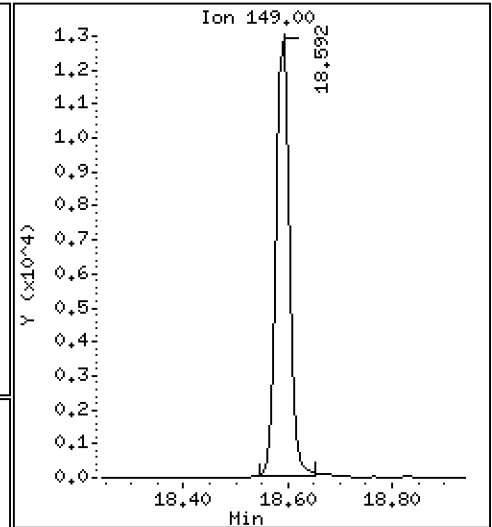
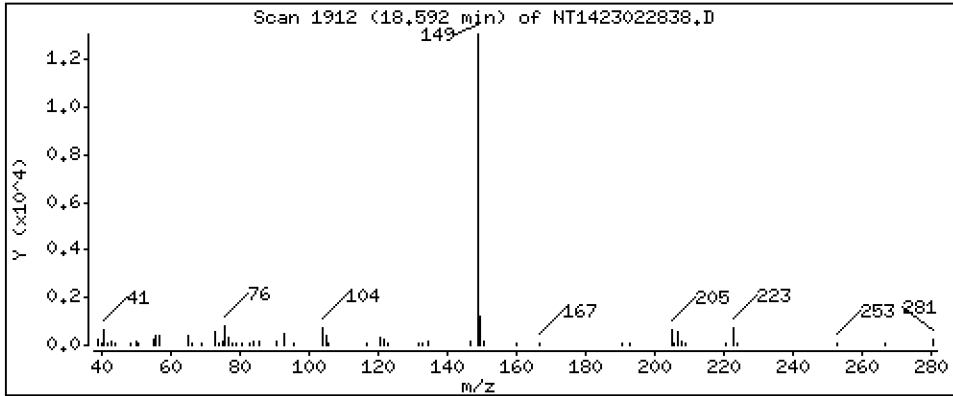
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,1830 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

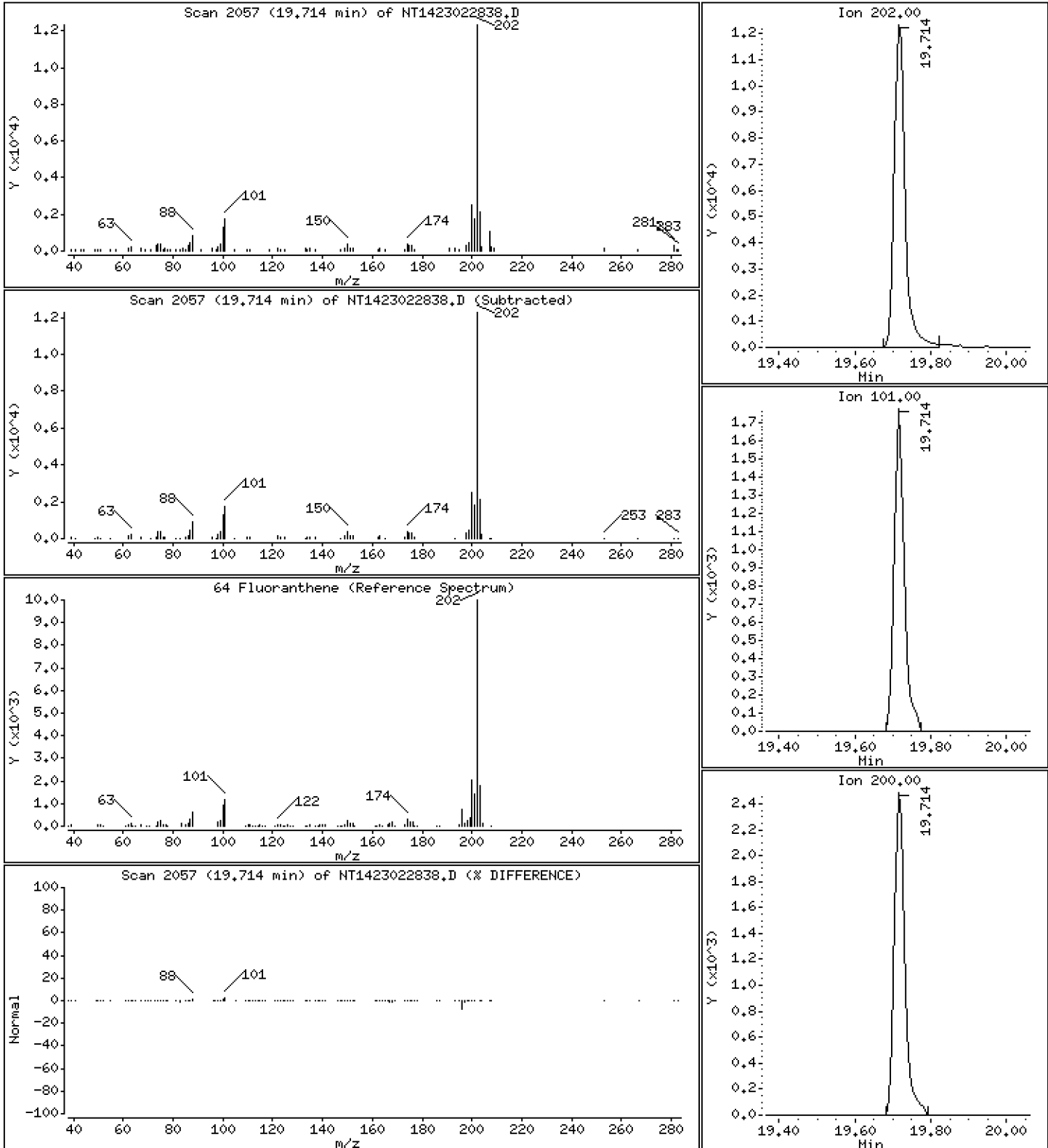
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,1837 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

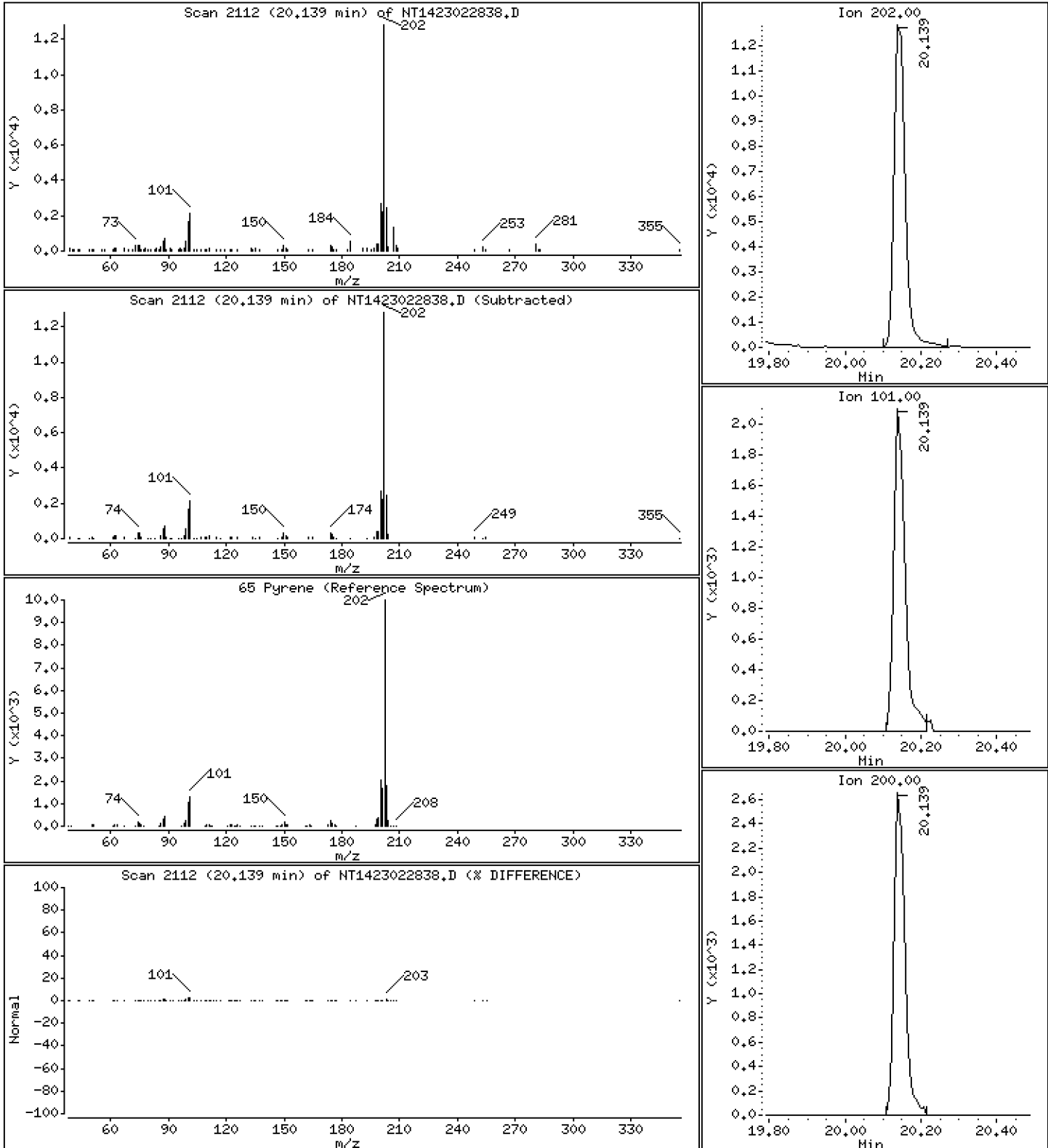
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,1835 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

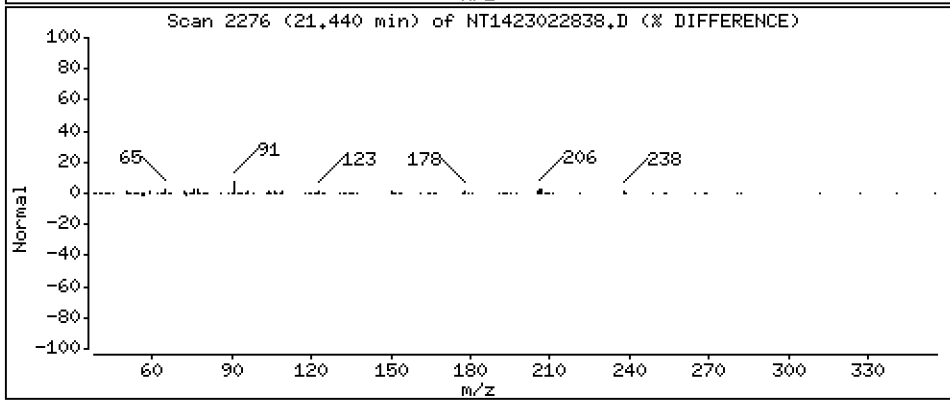
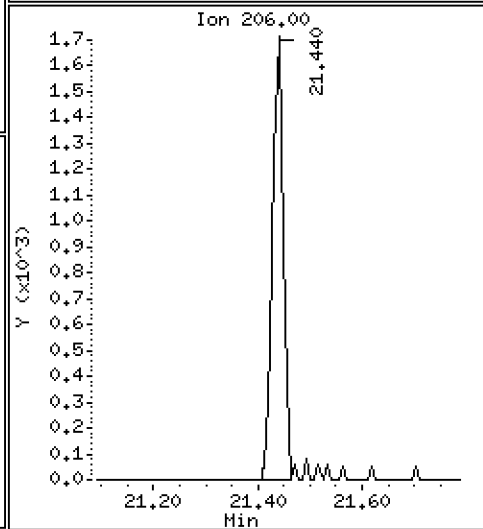
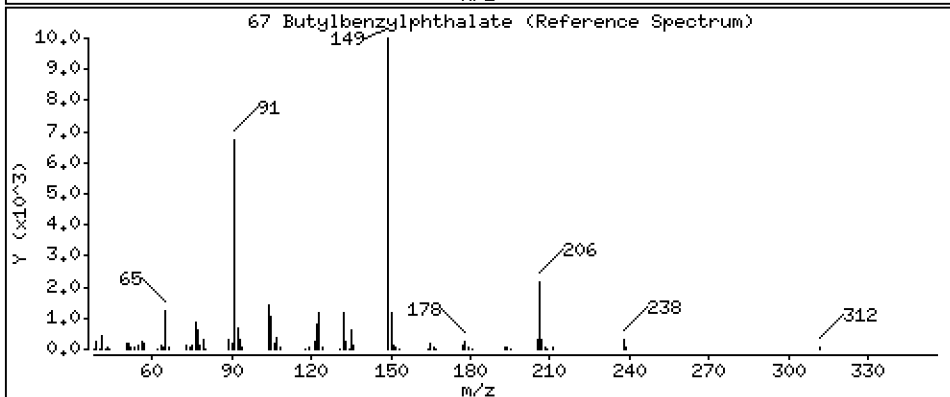
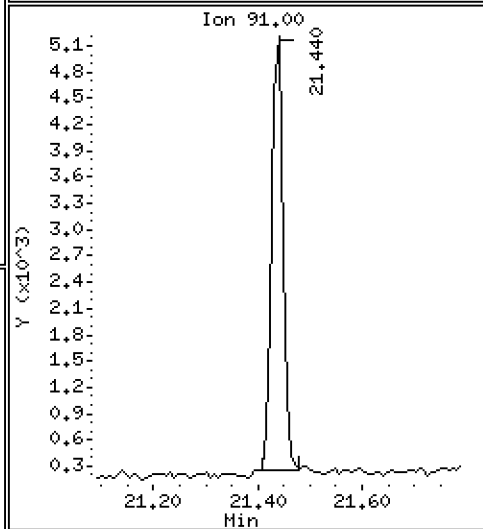
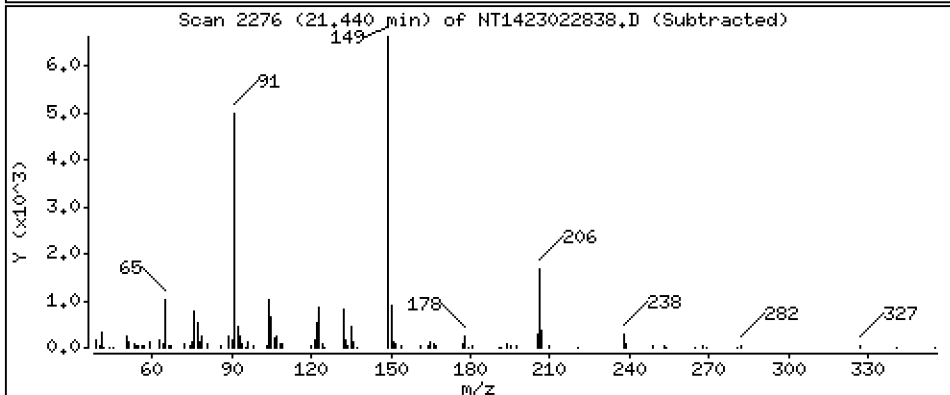
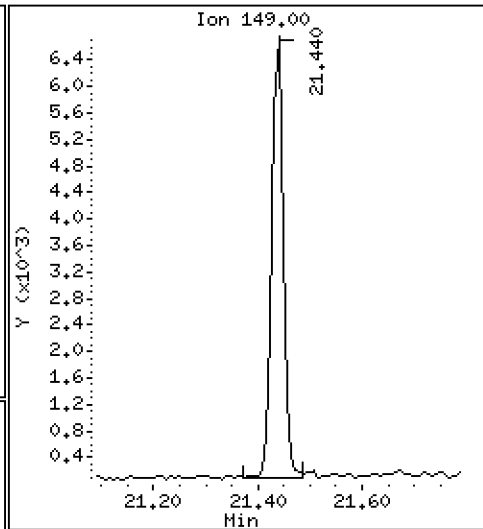
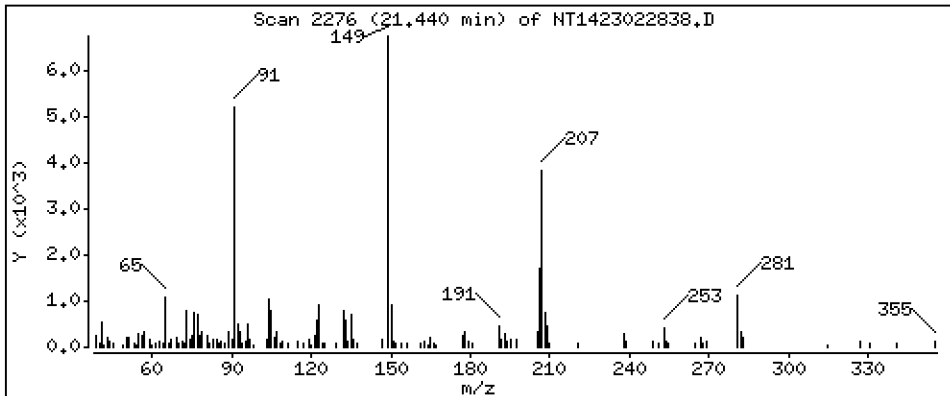
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,1984 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

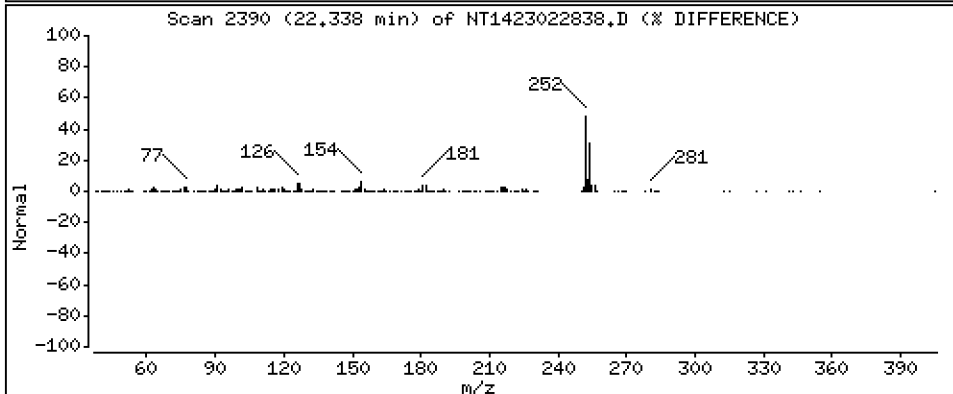
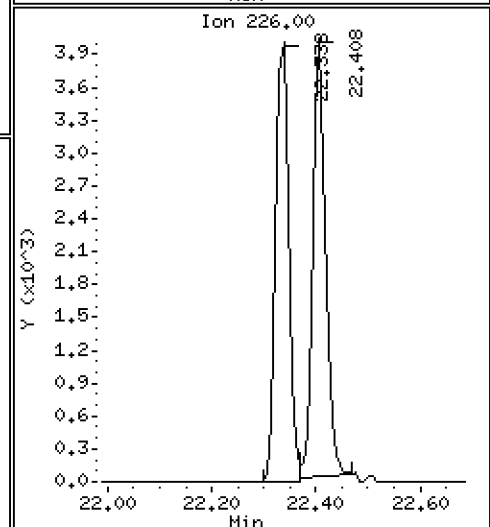
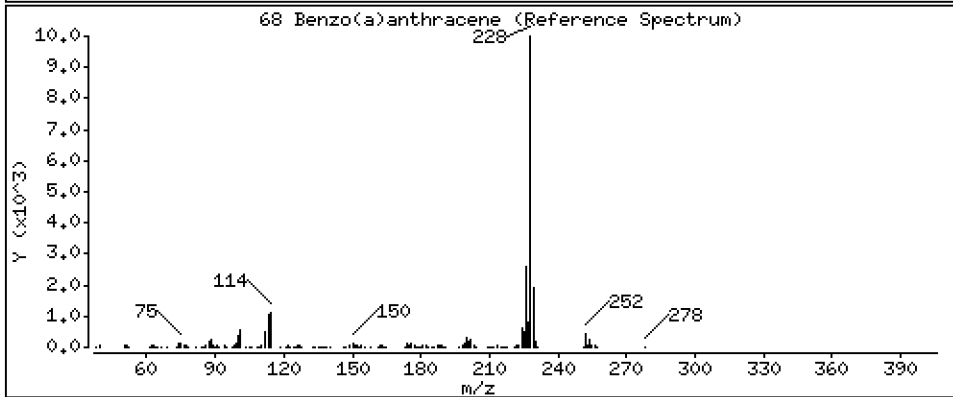
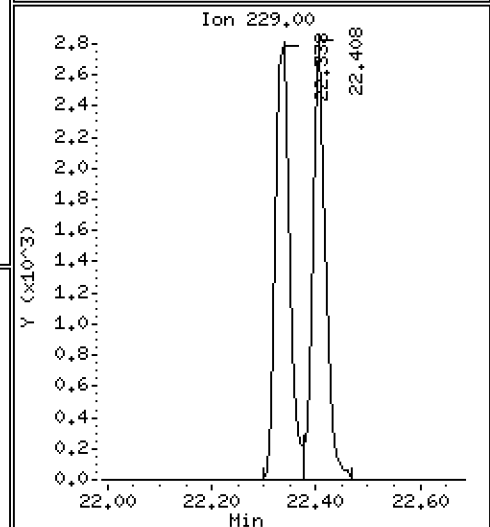
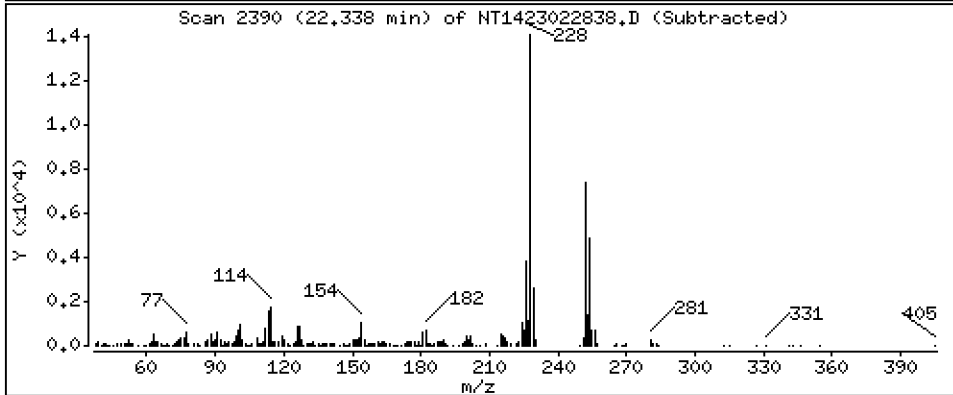
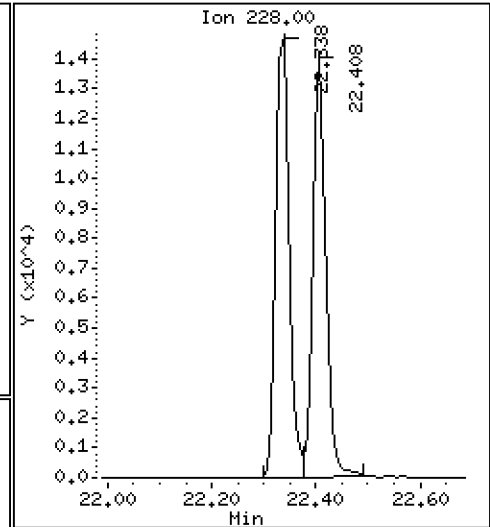
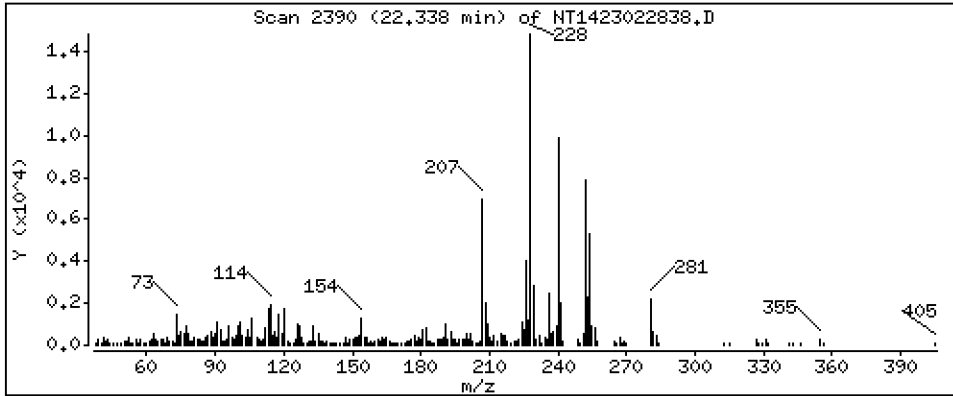
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2213 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

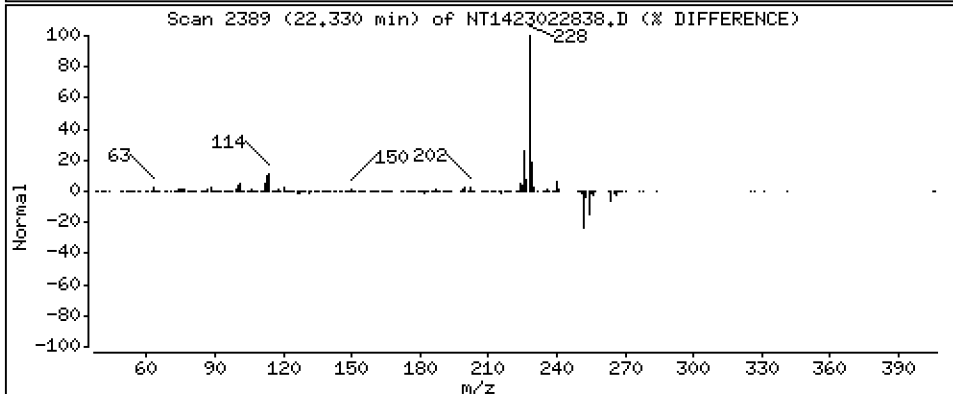
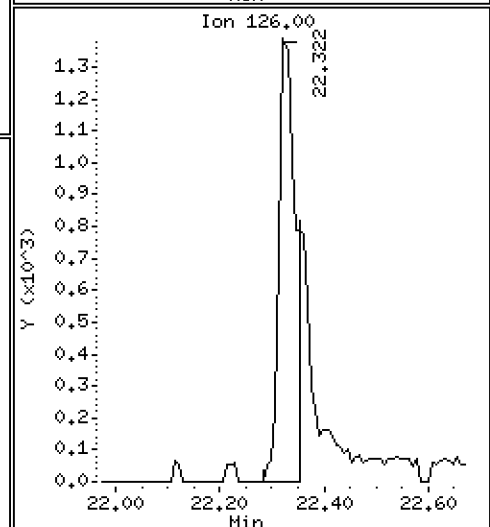
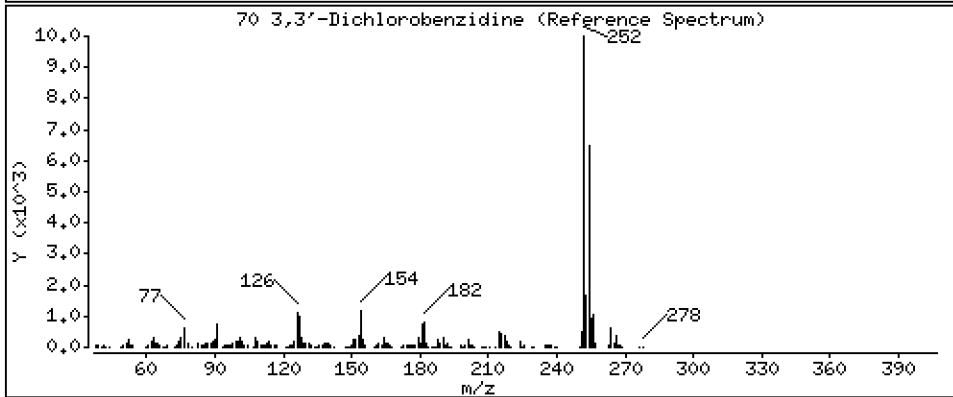
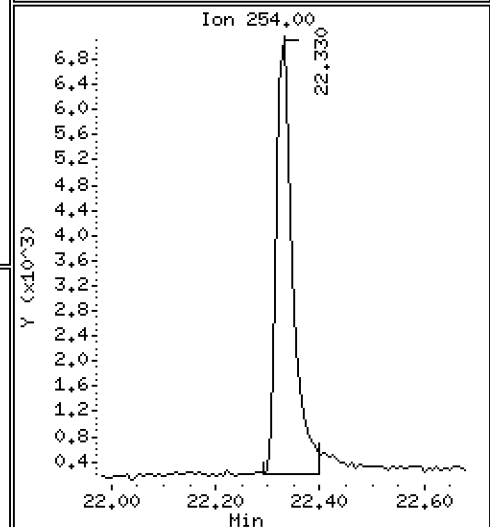
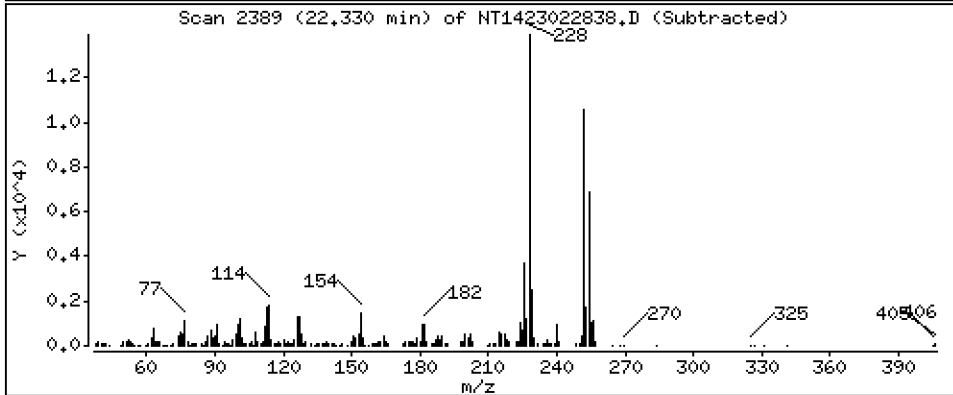
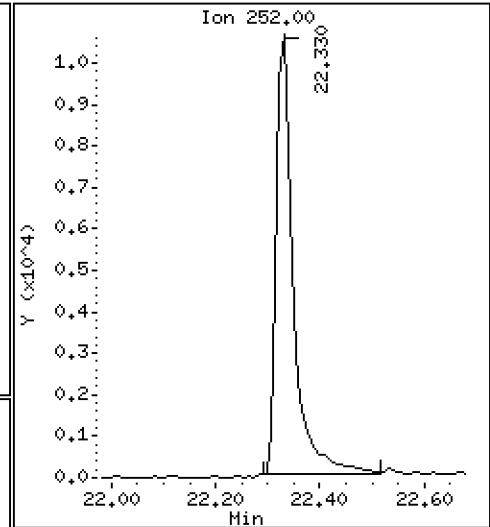
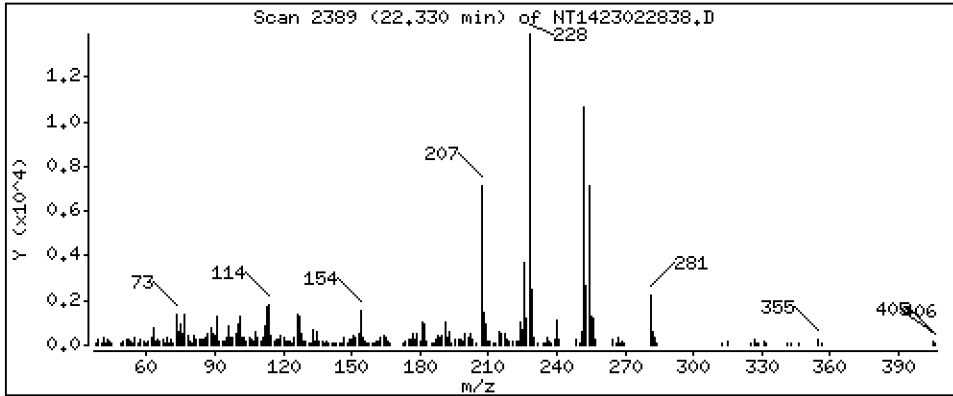
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,7194 ug/mL





Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

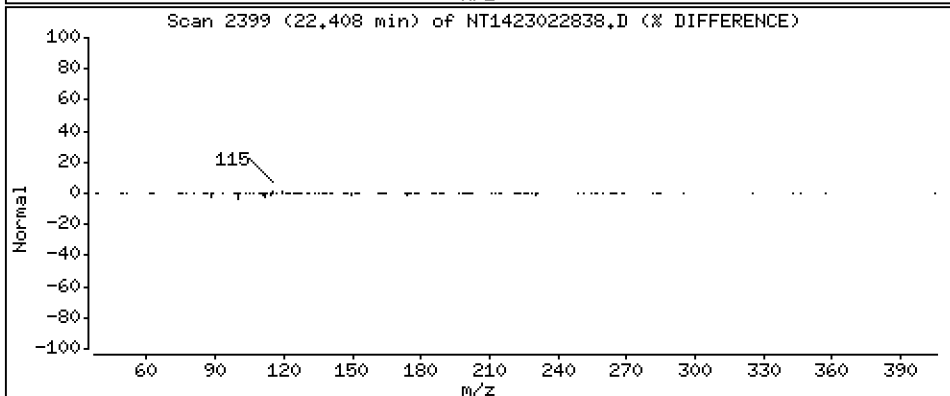
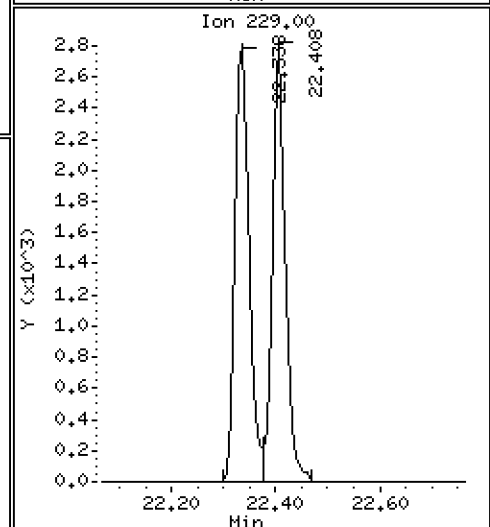
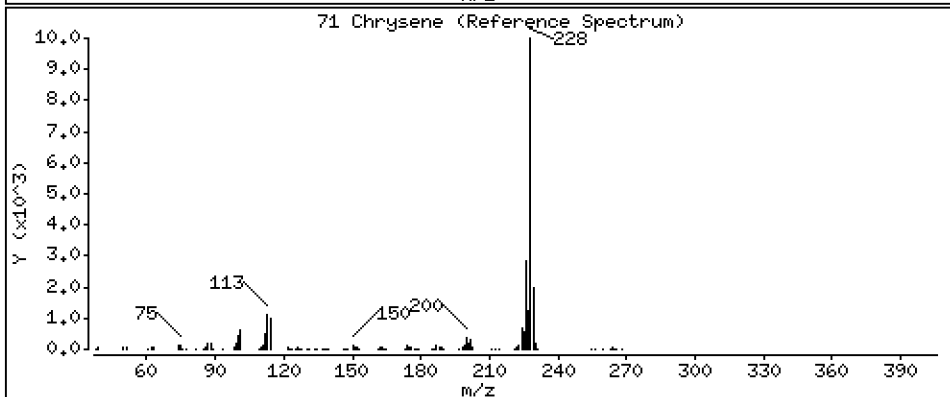
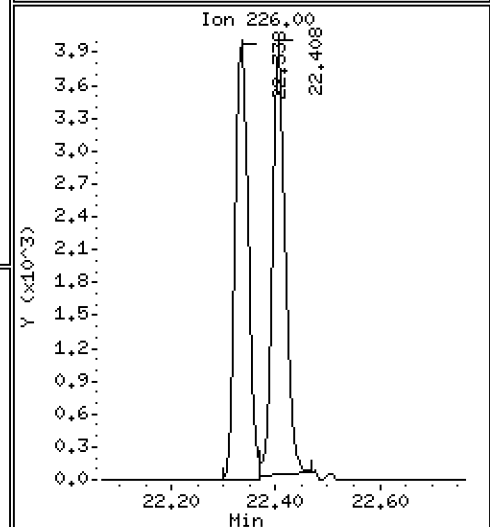
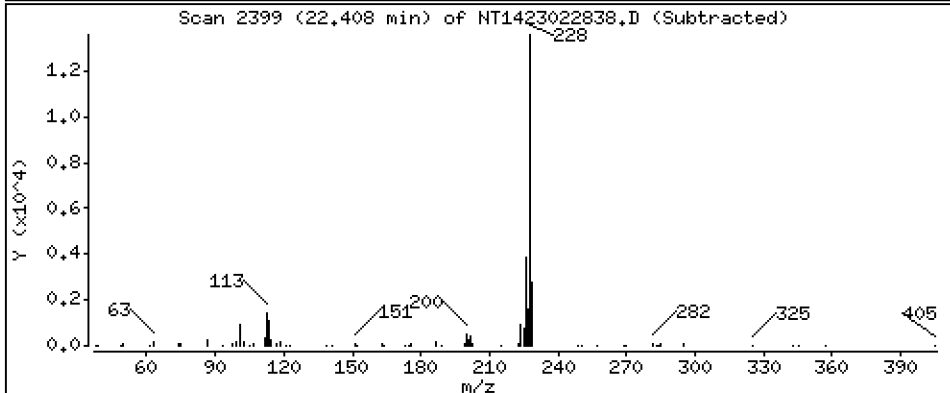
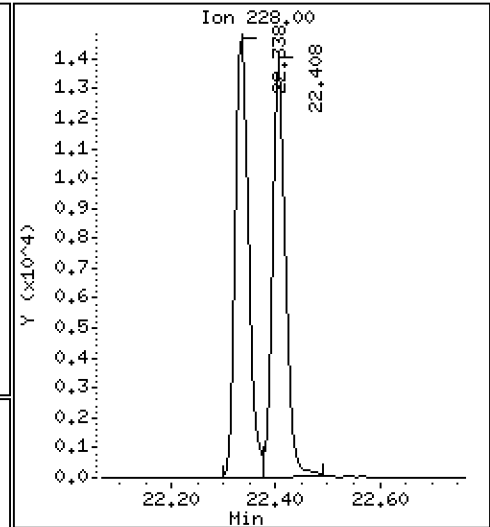
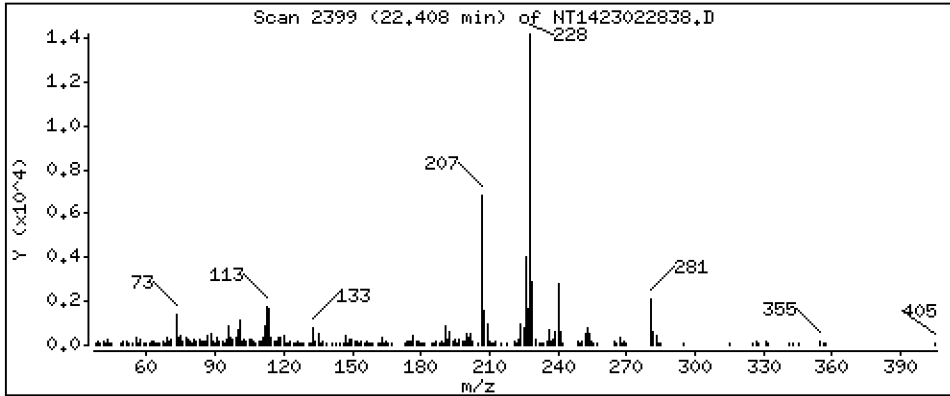
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2150 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

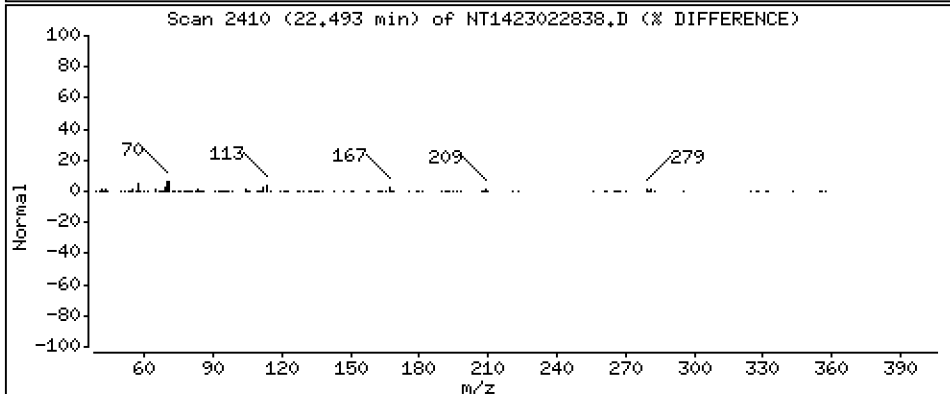
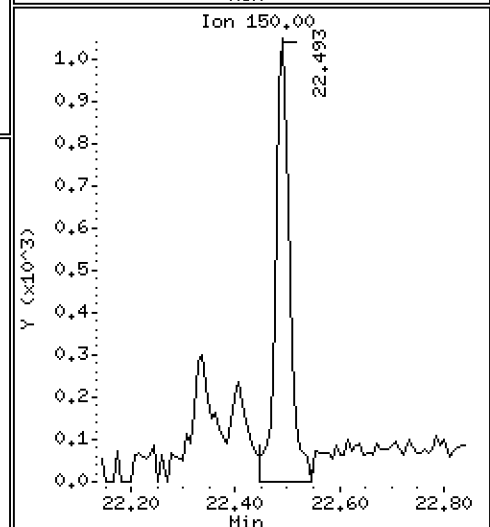
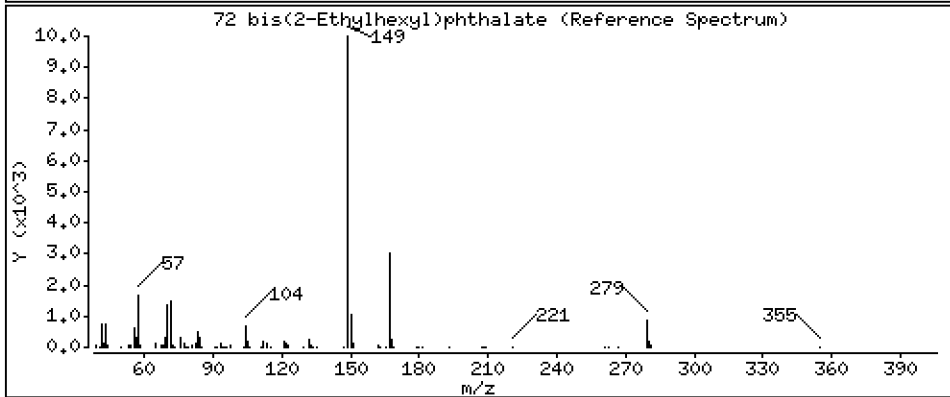
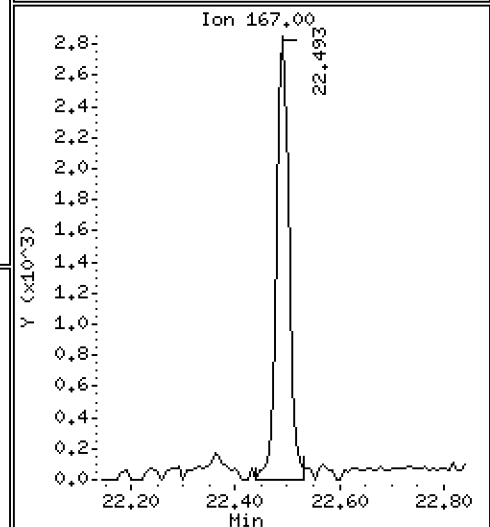
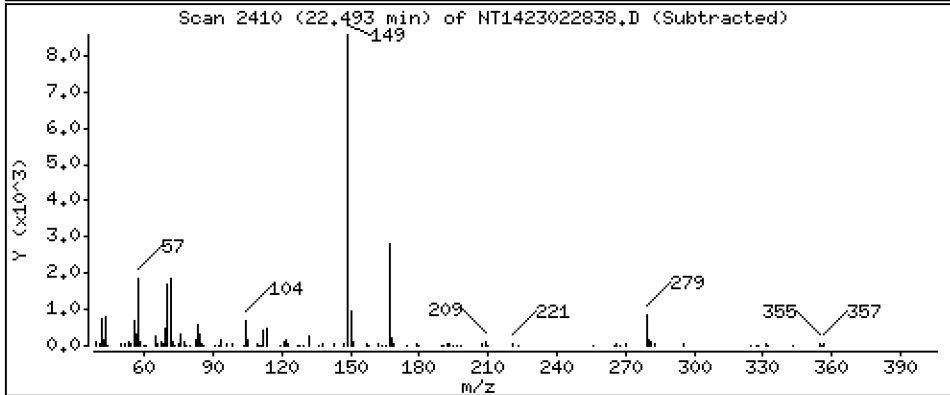
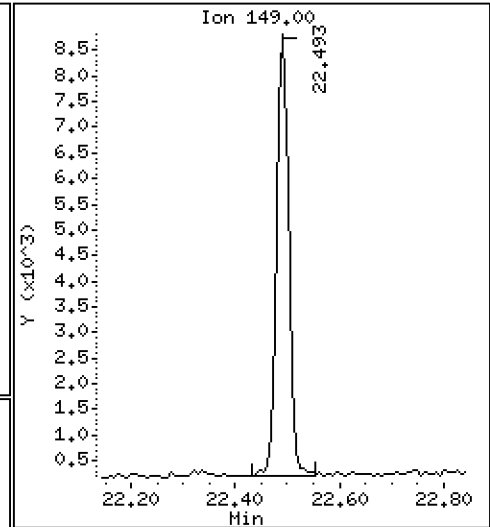
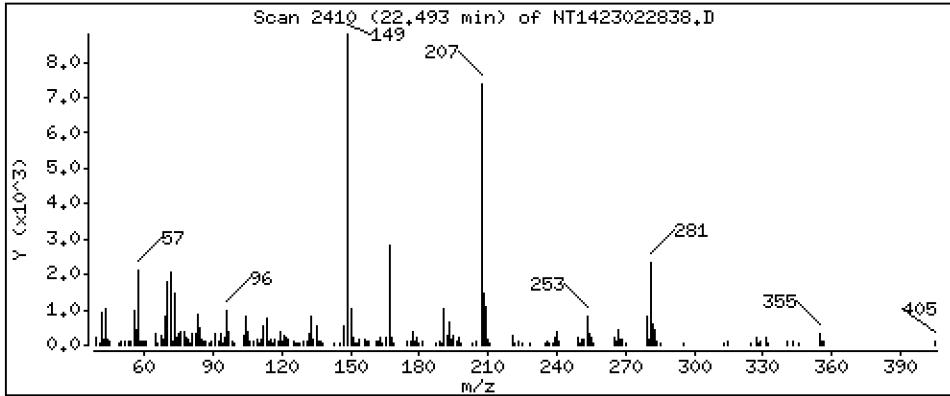
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,1769 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

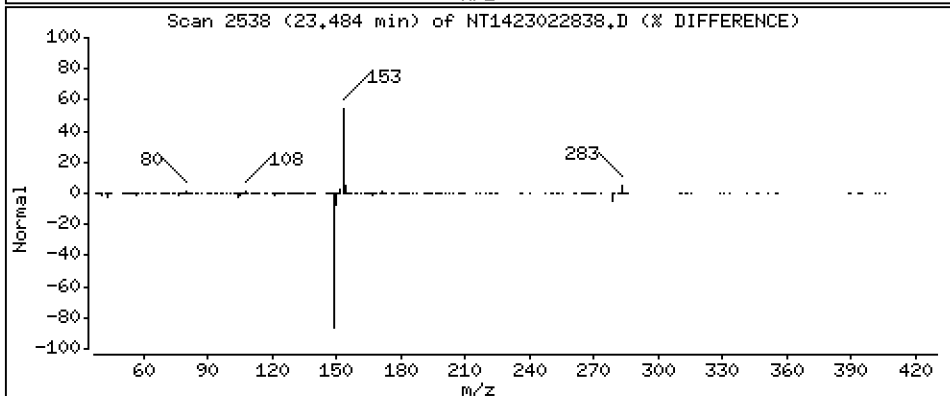
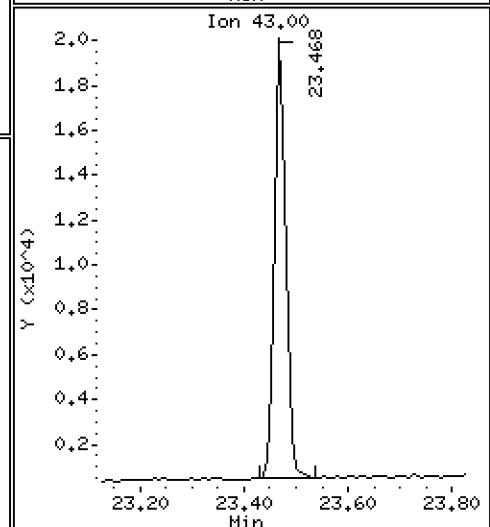
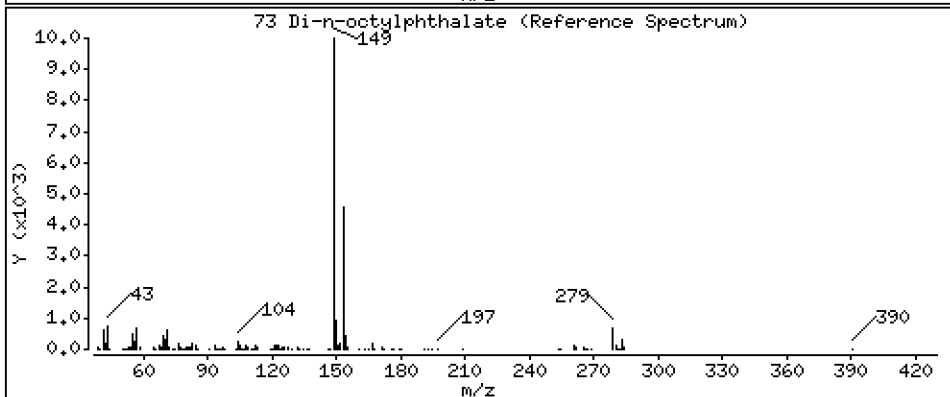
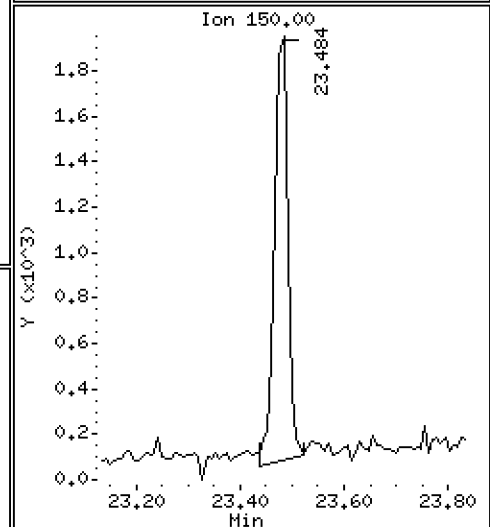
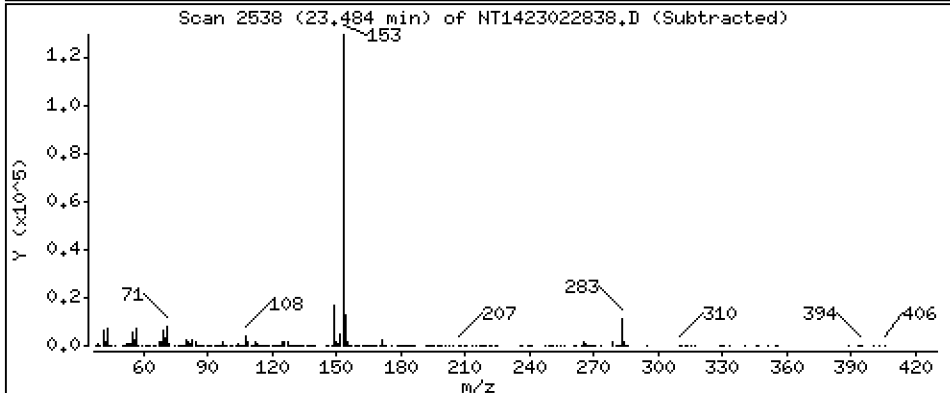
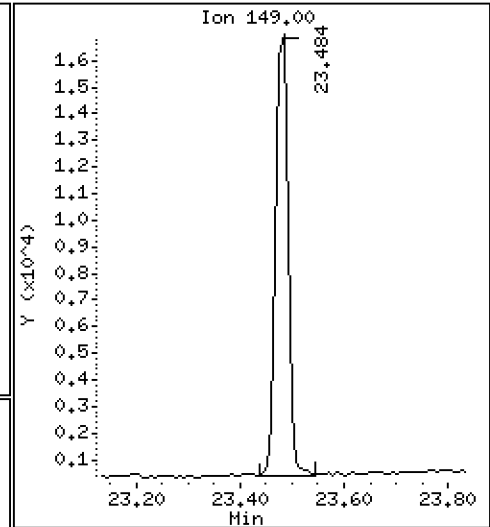
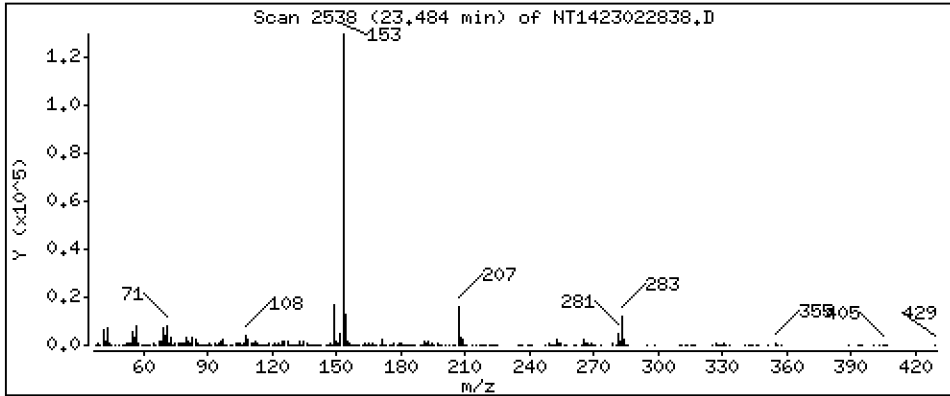
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2029 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

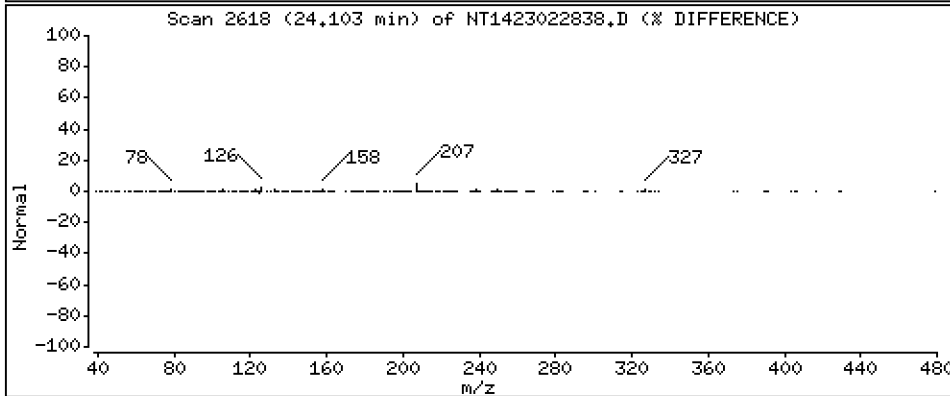
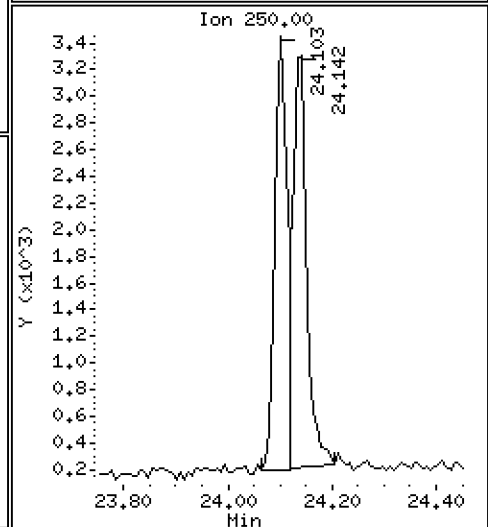
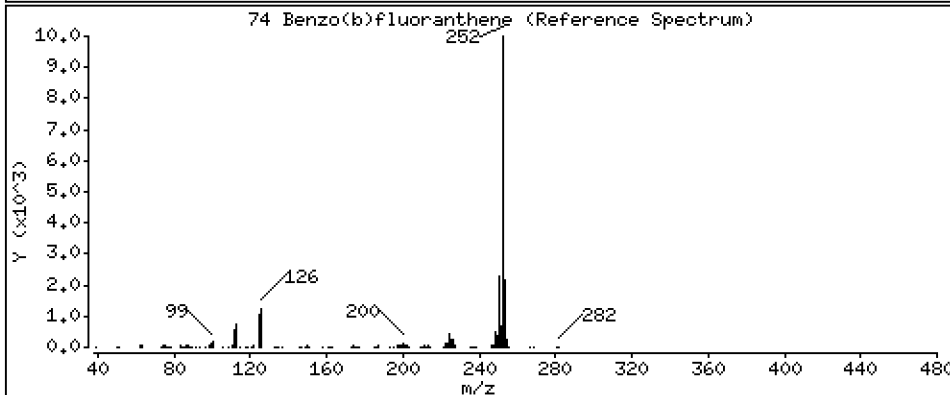
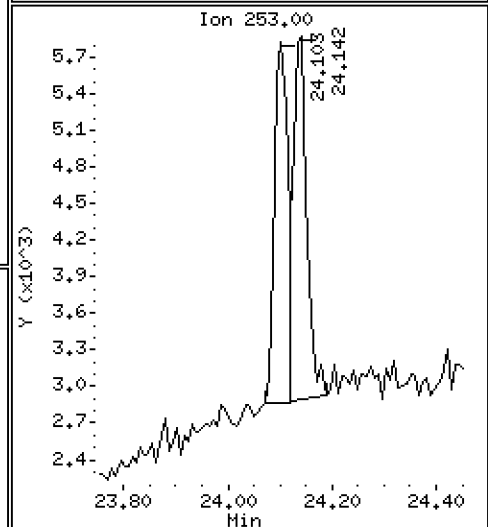
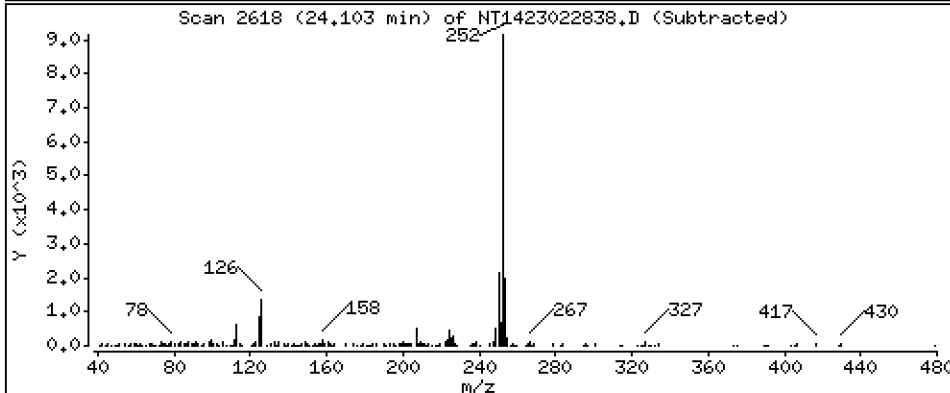
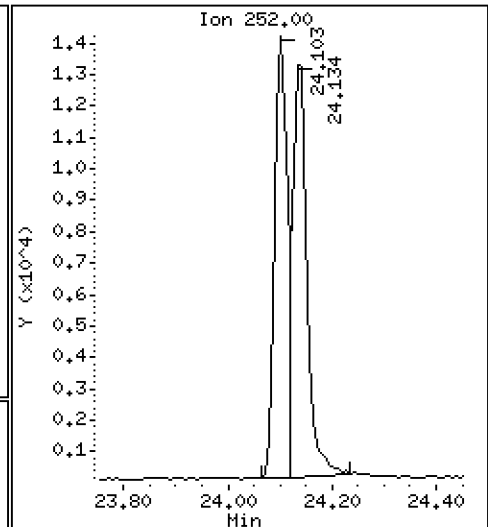
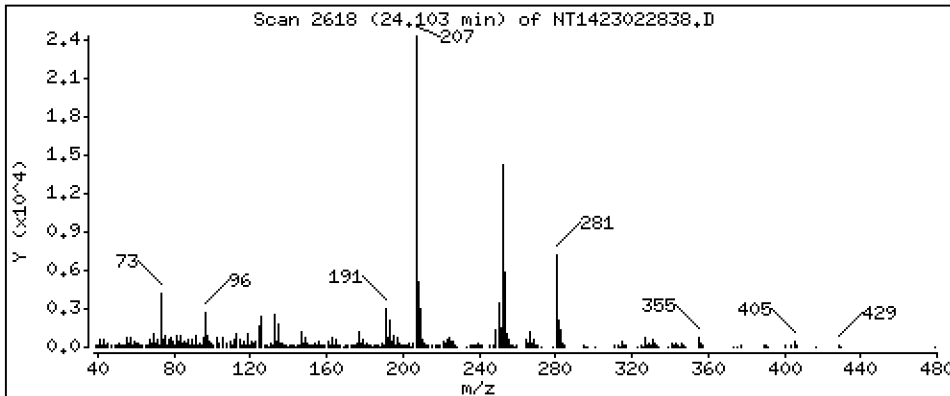
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,2228 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

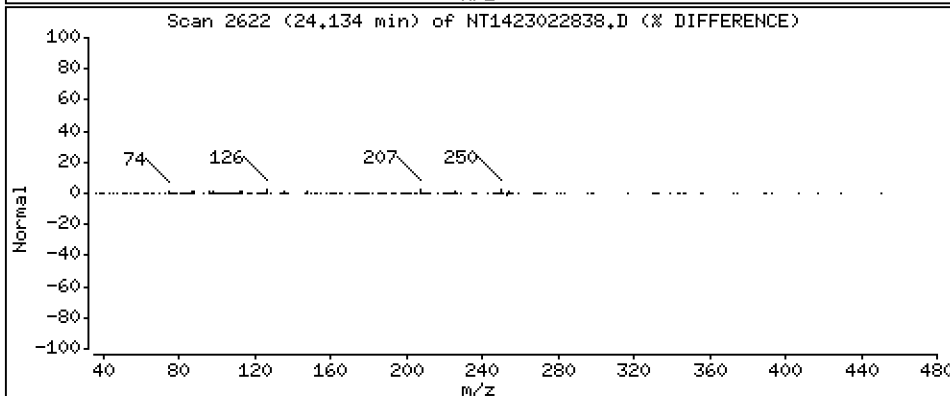
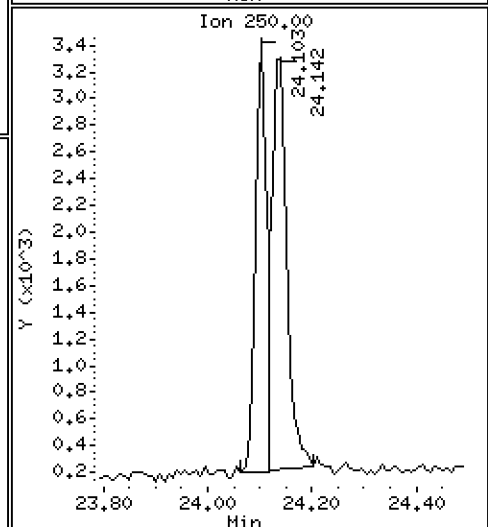
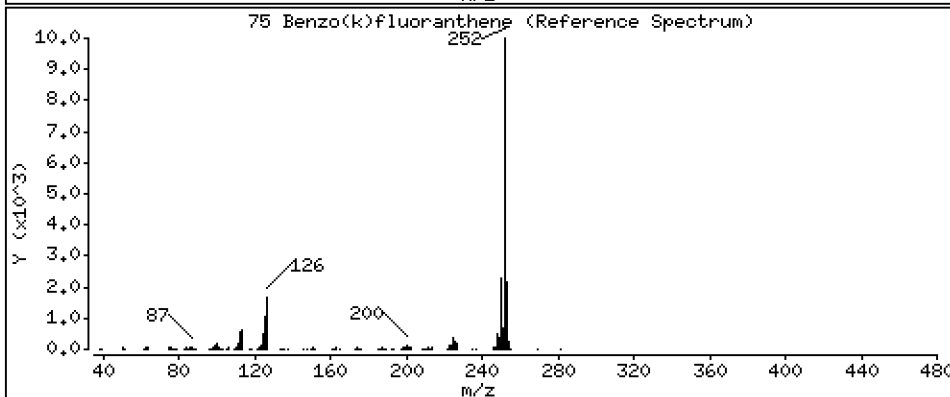
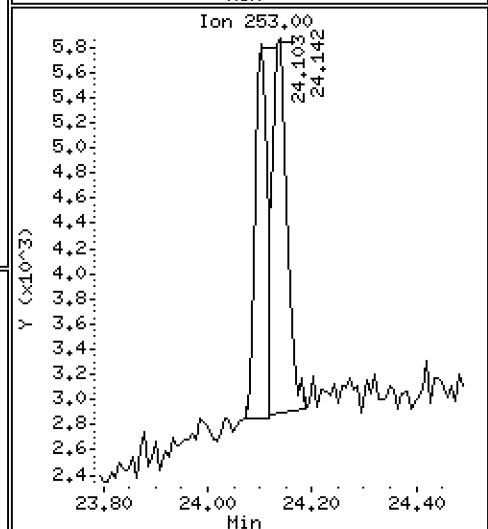
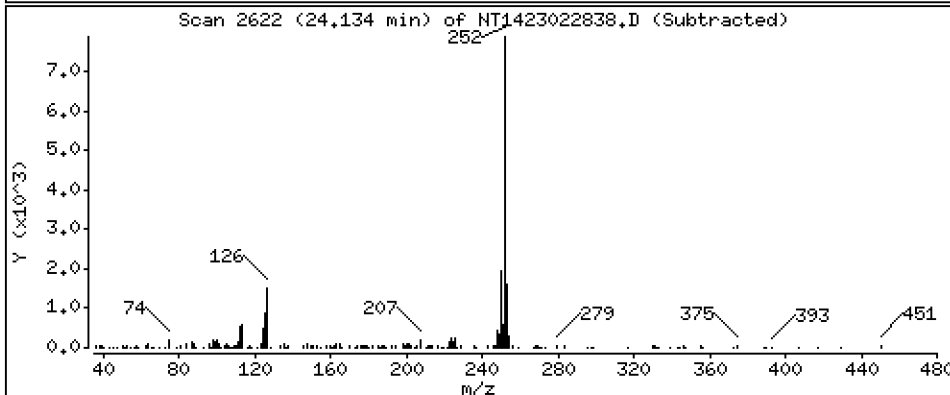
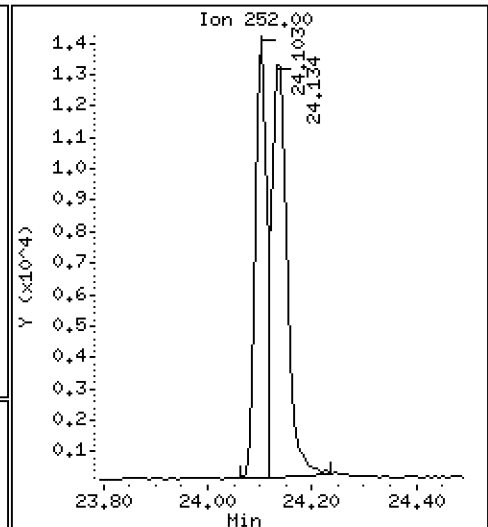
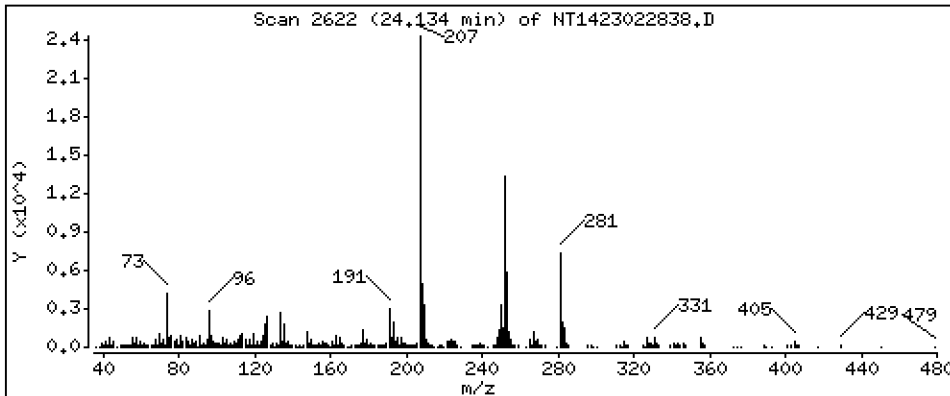
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2464 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

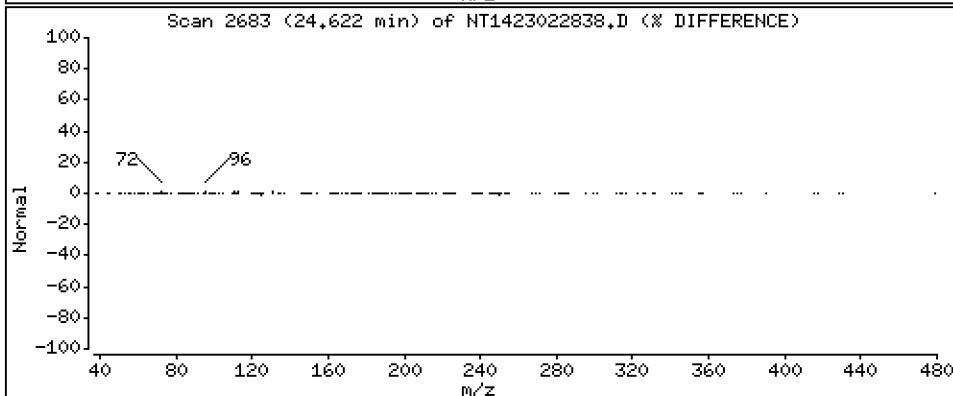
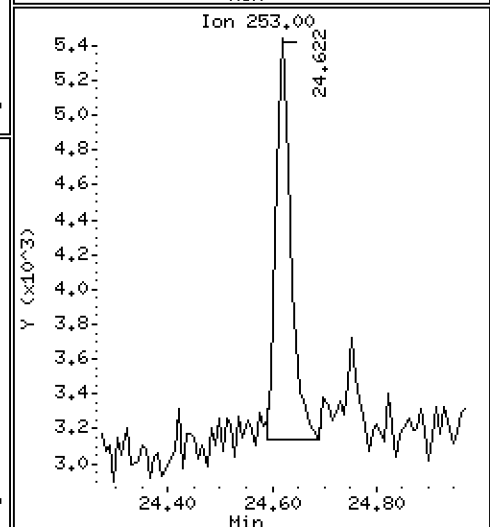
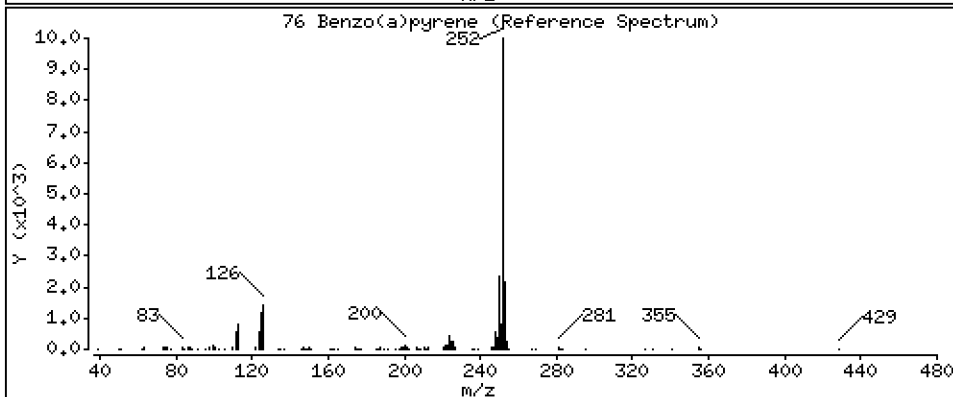
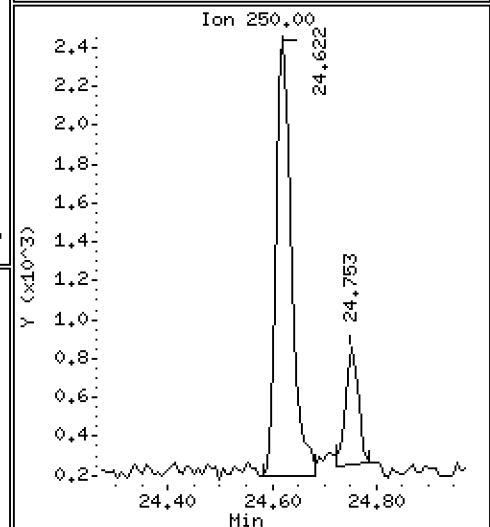
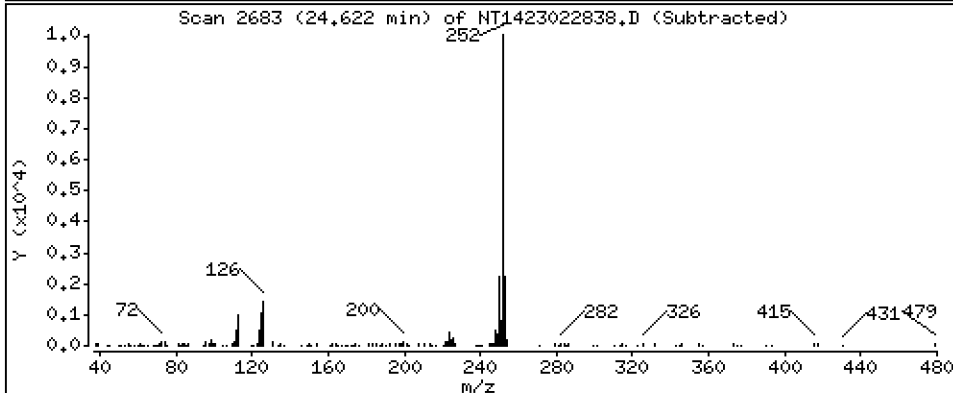
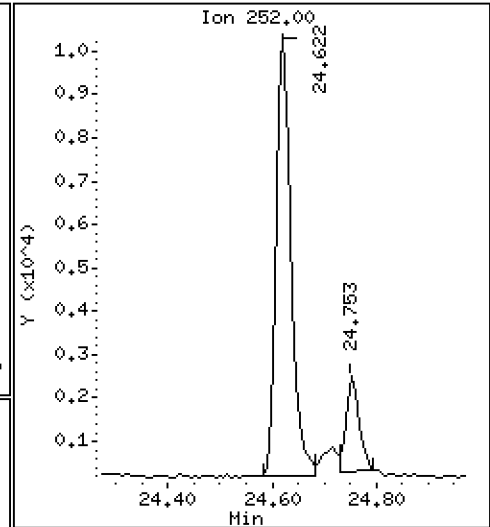
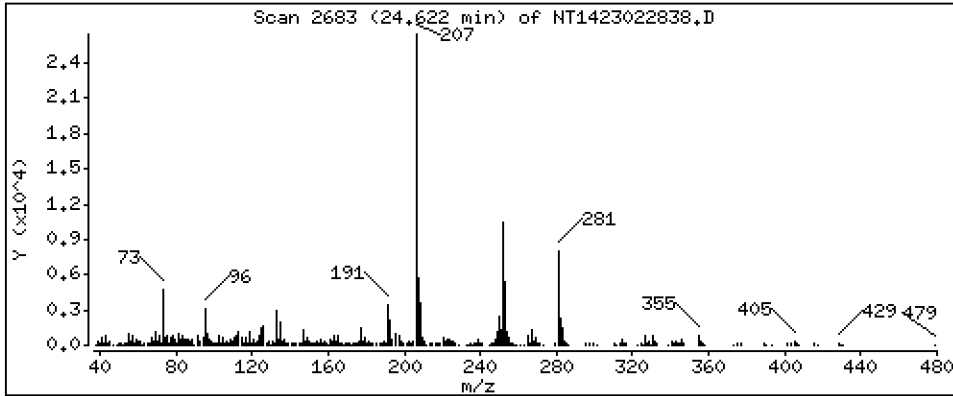
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2128 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

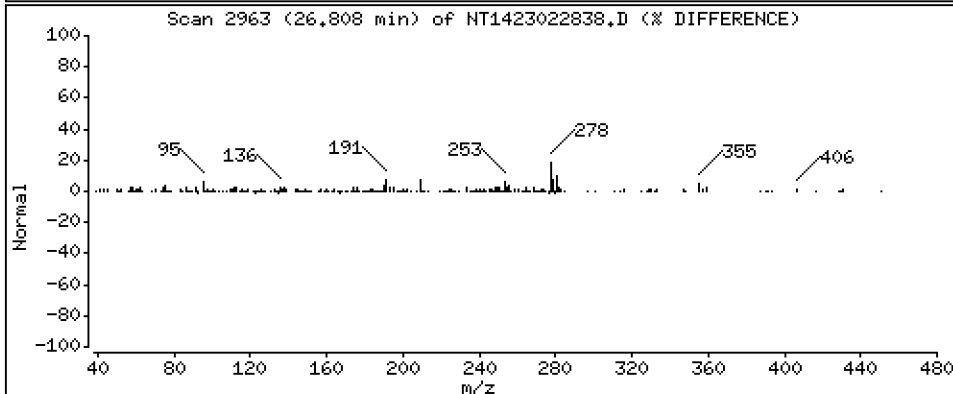
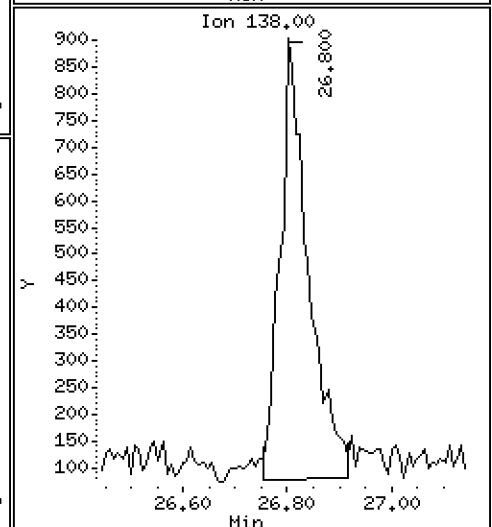
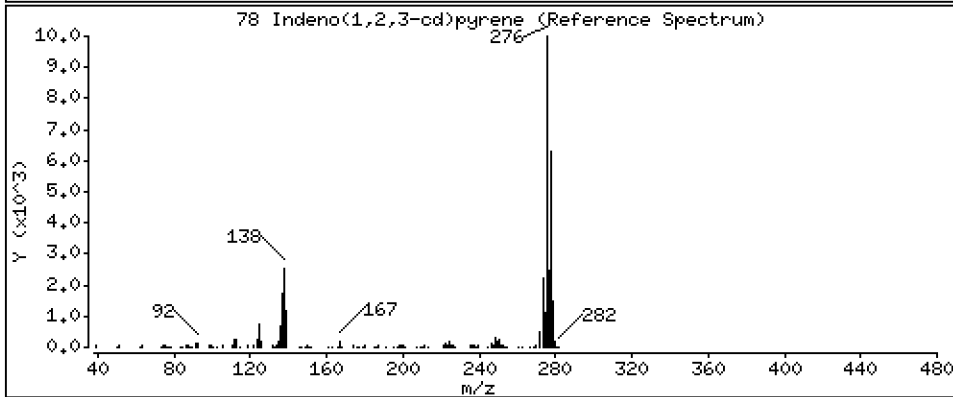
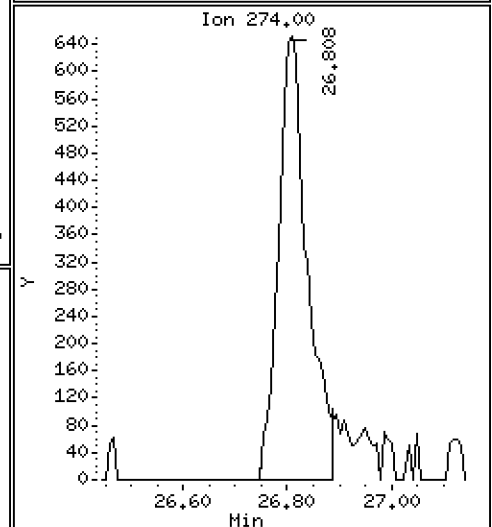
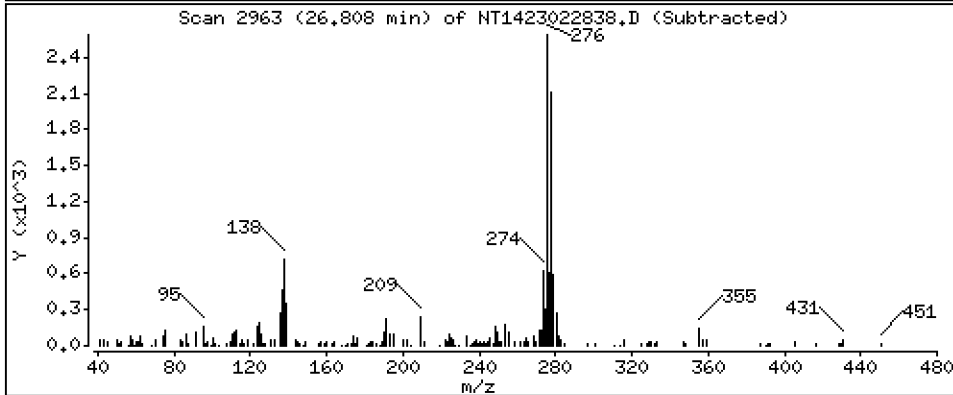
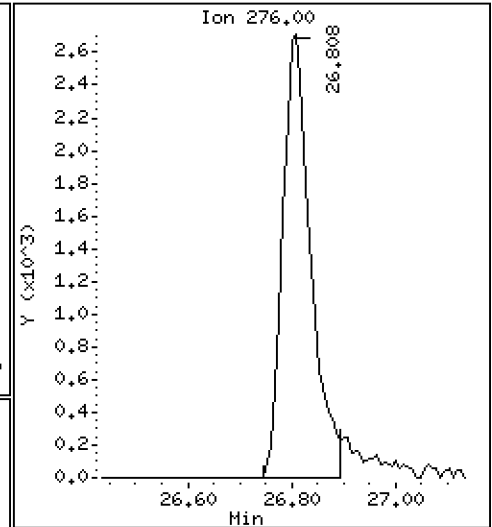
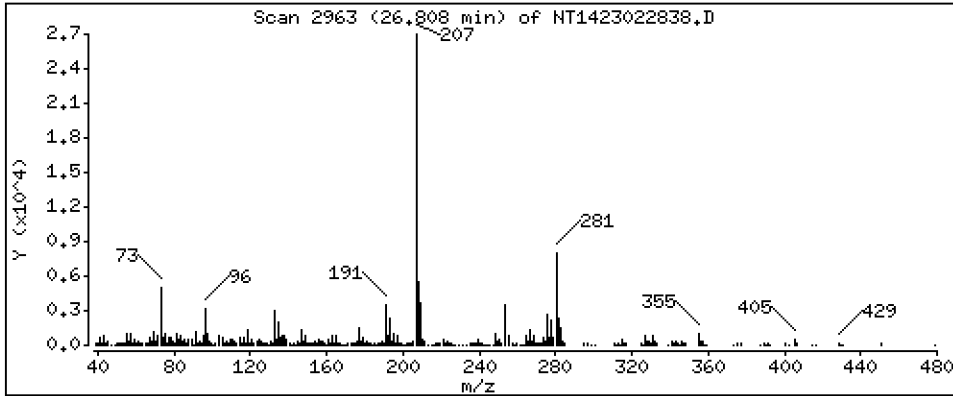
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,09023 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

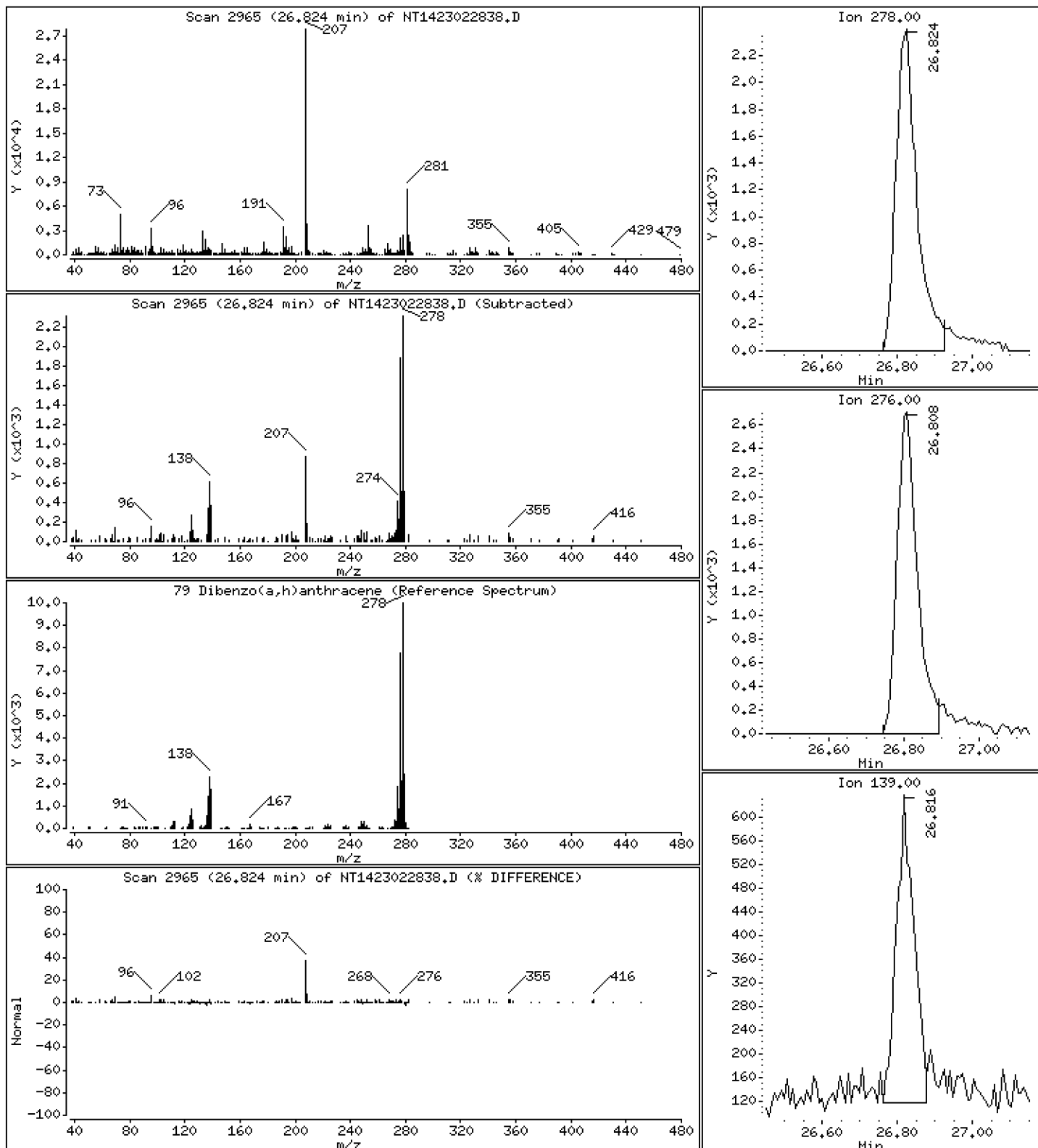
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,09853 ug/mL





Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

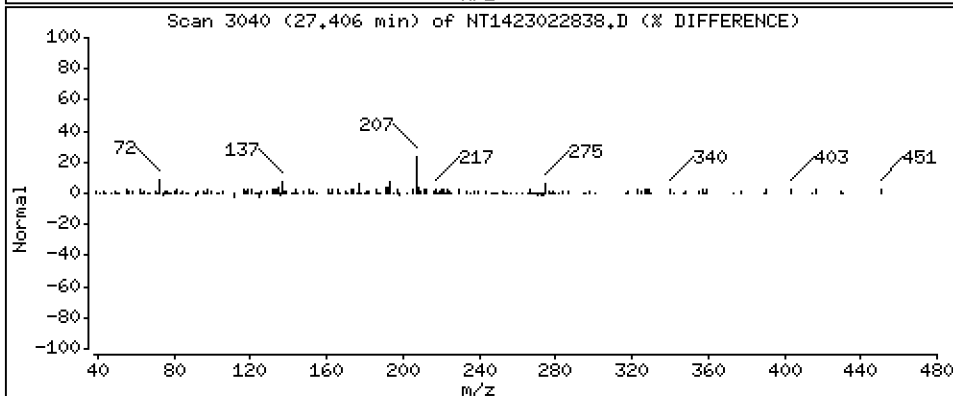
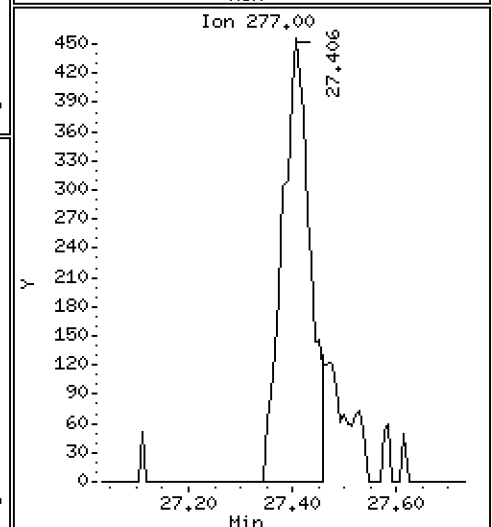
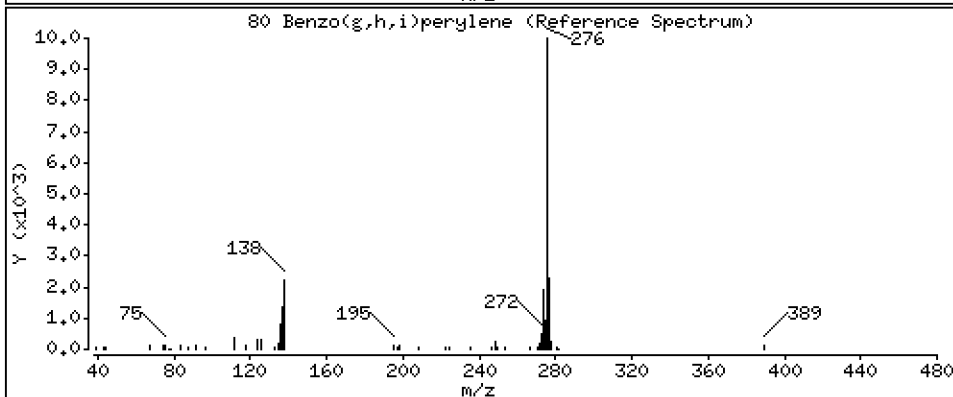
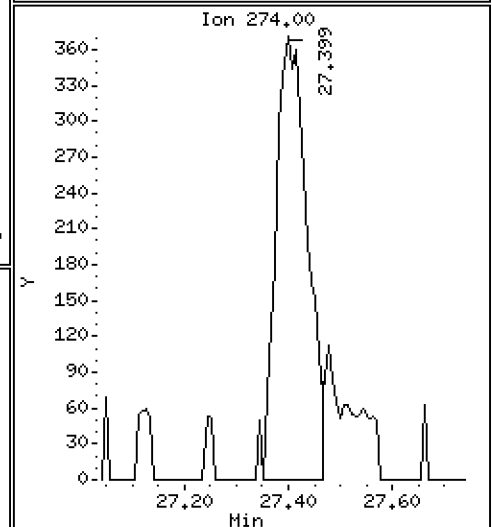
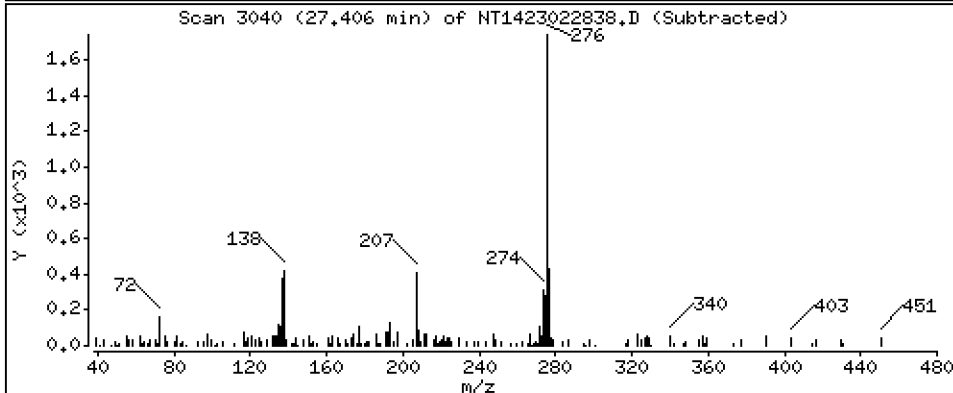
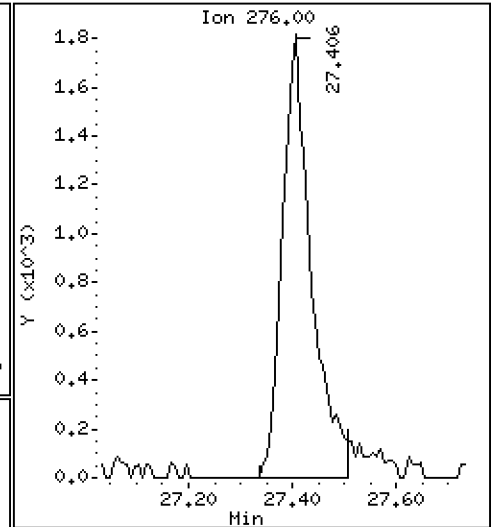
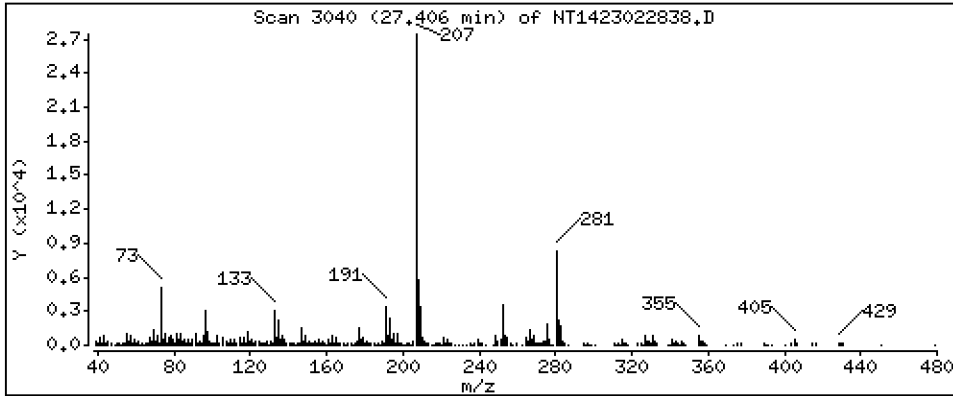
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,07140 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

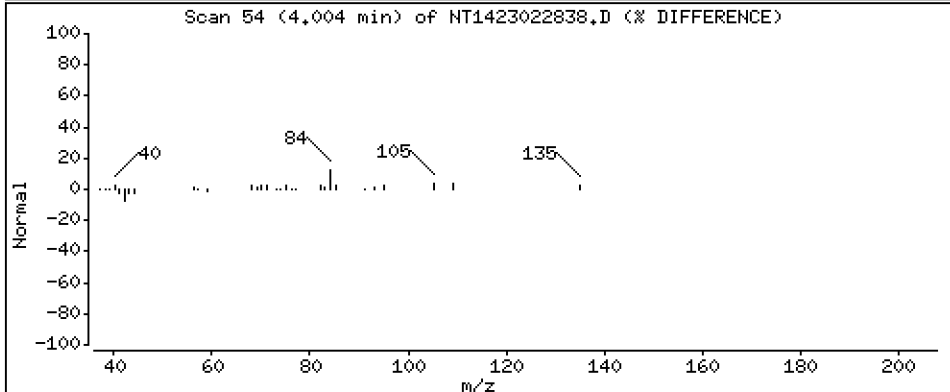
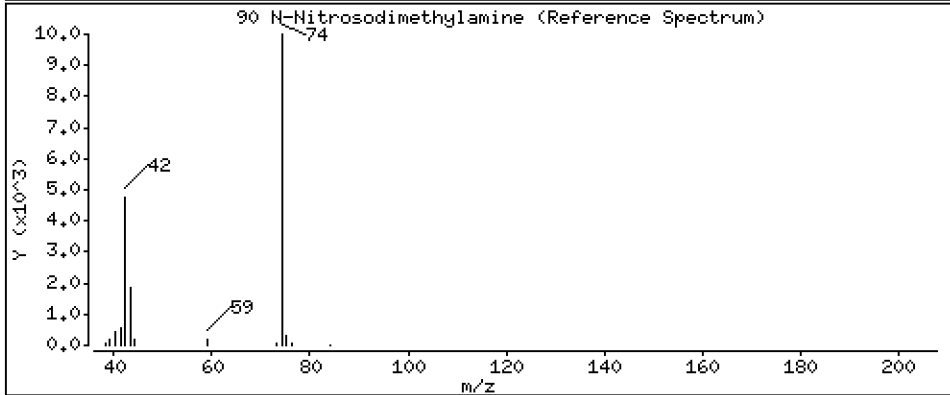
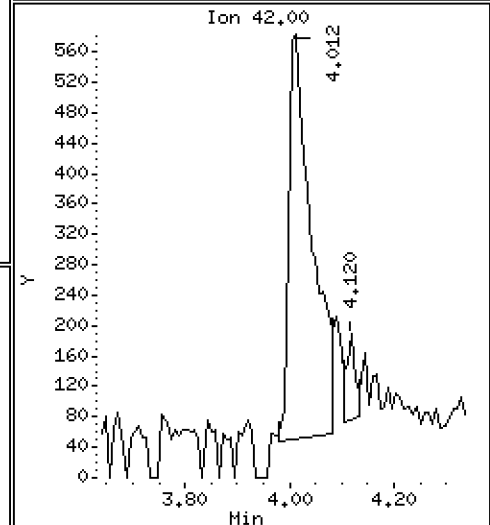
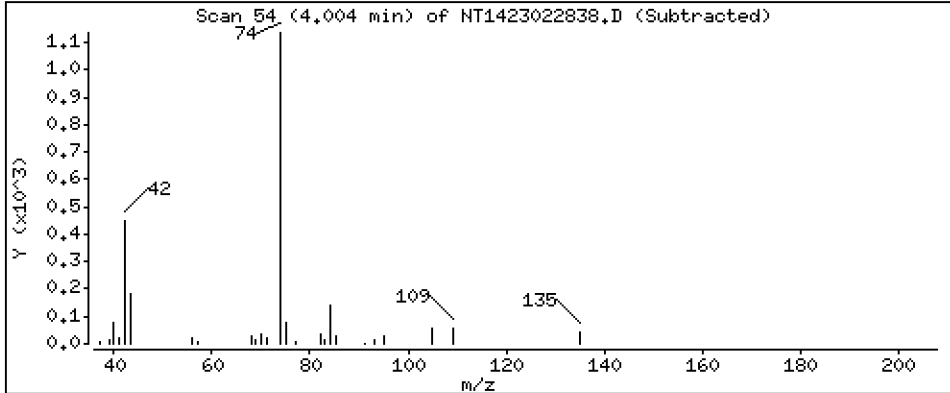
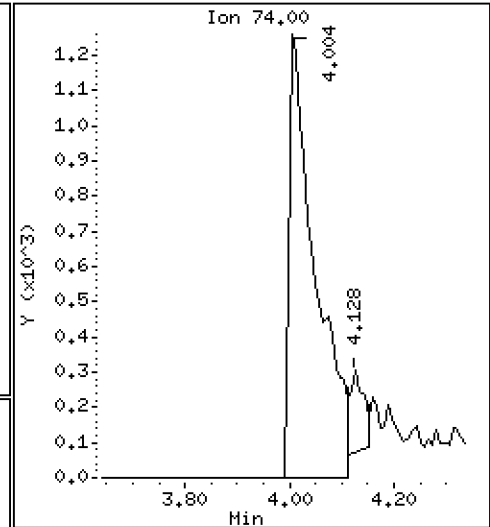
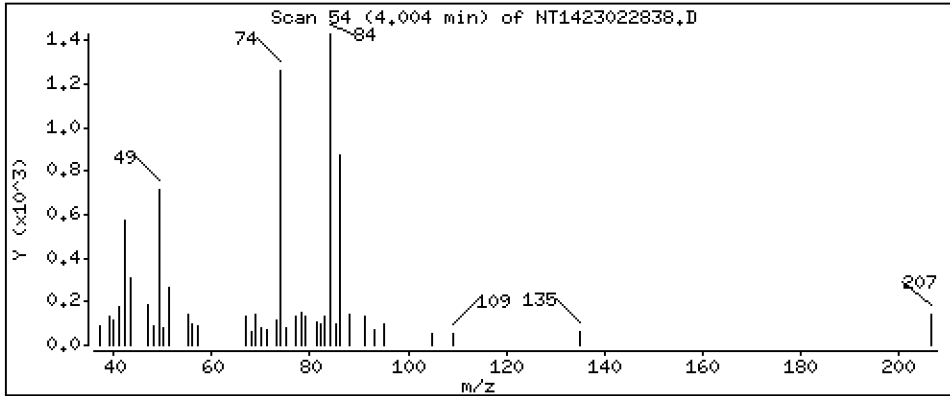
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,1925 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

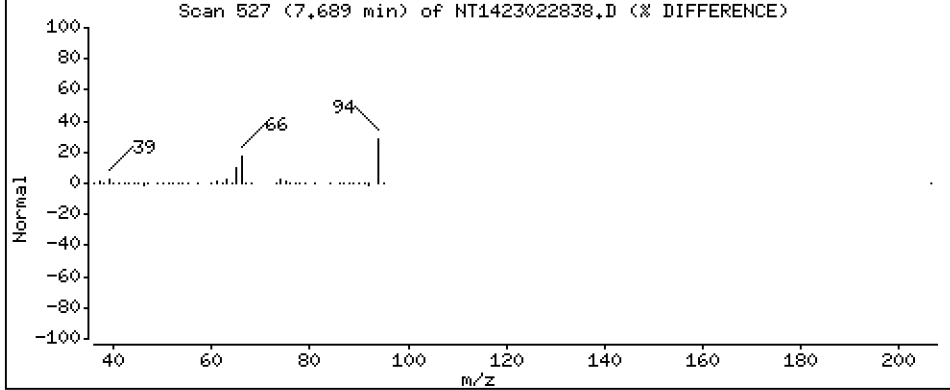
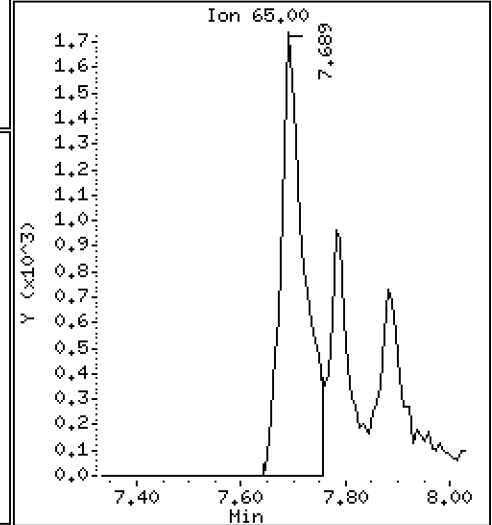
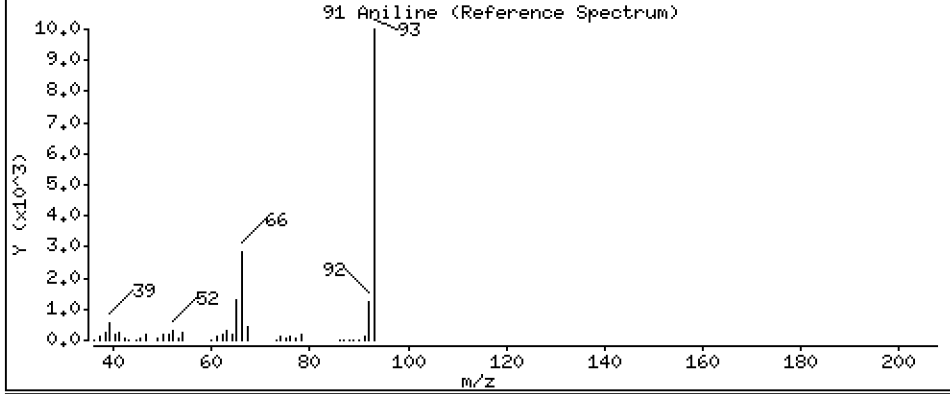
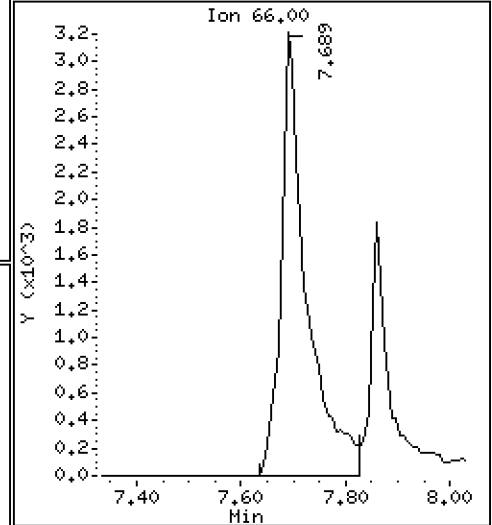
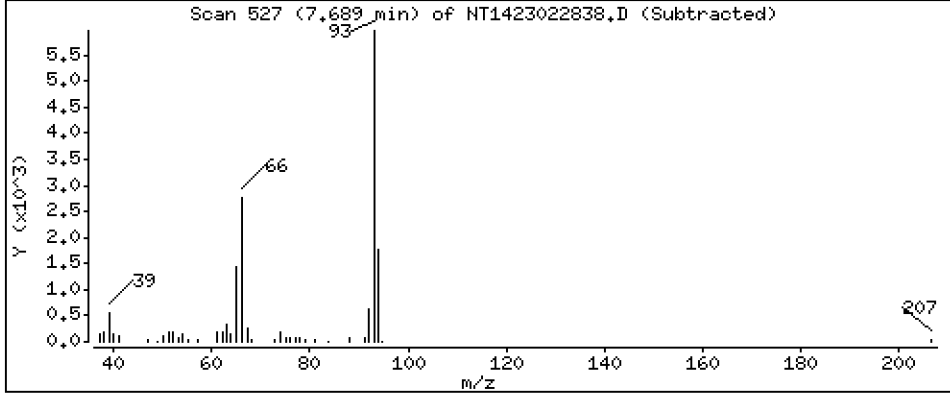
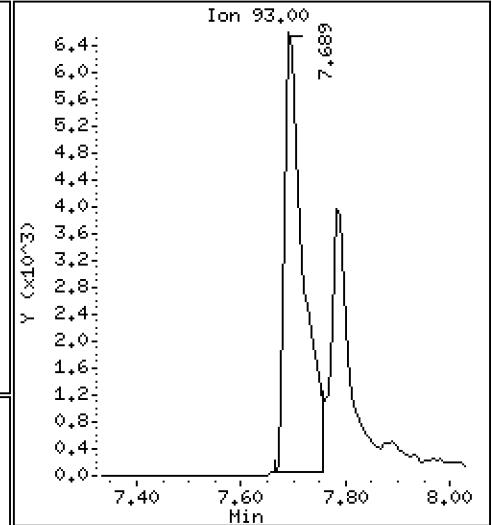
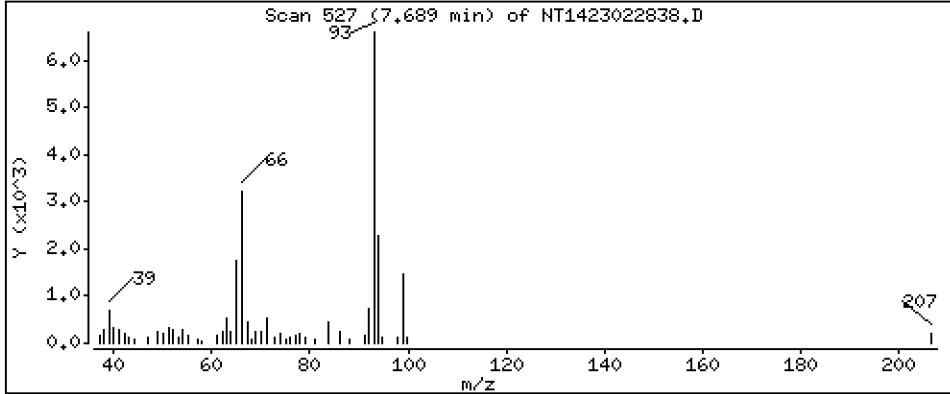
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,3000 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

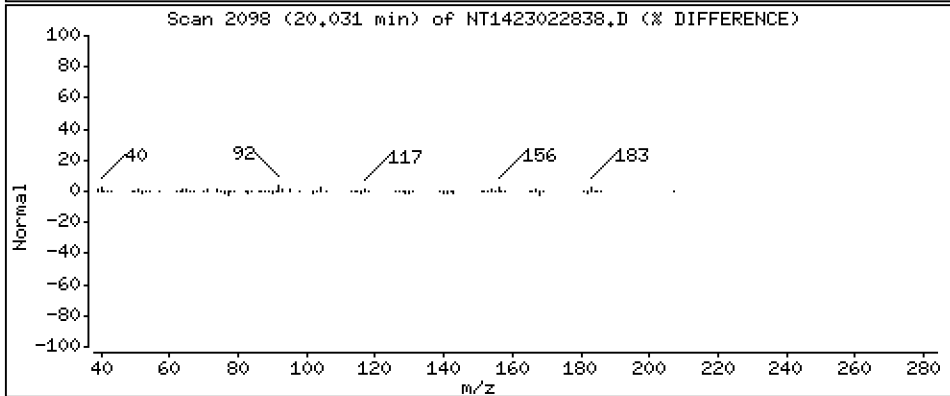
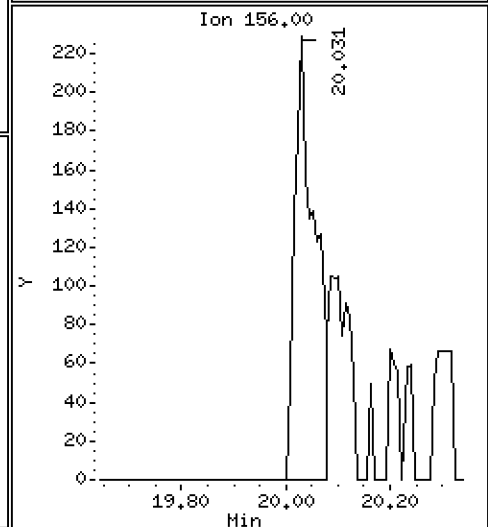
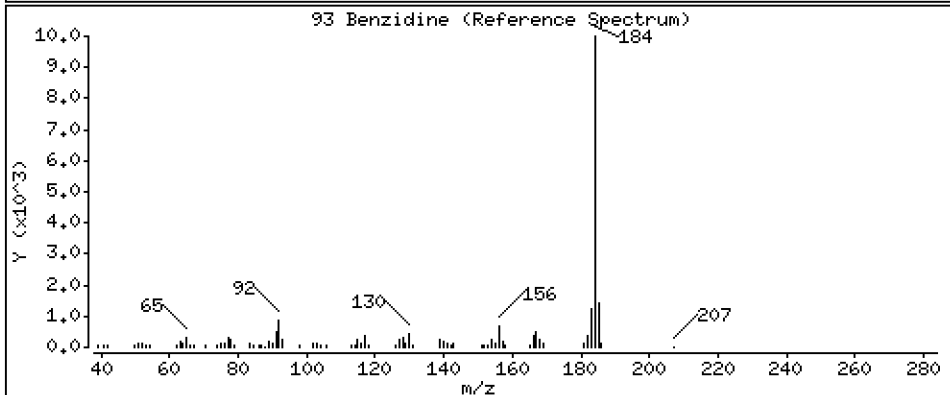
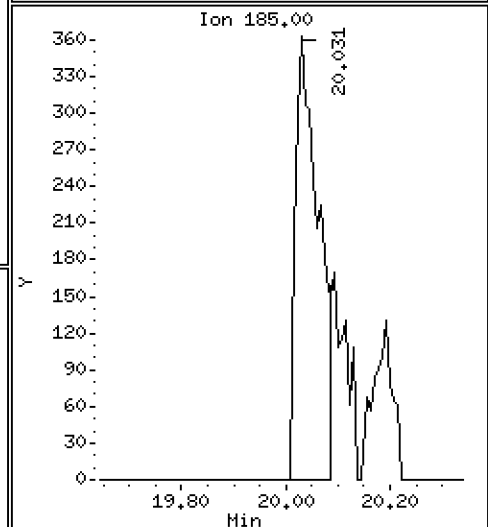
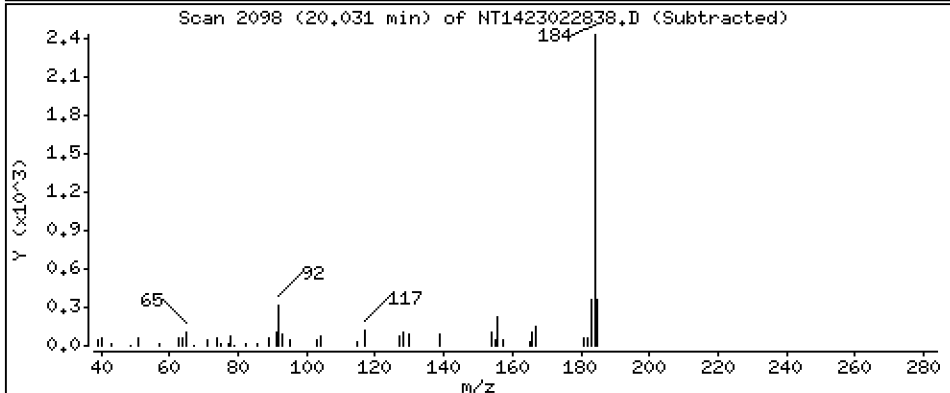
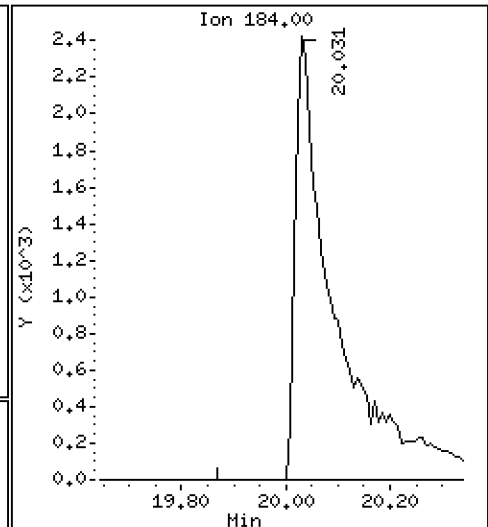
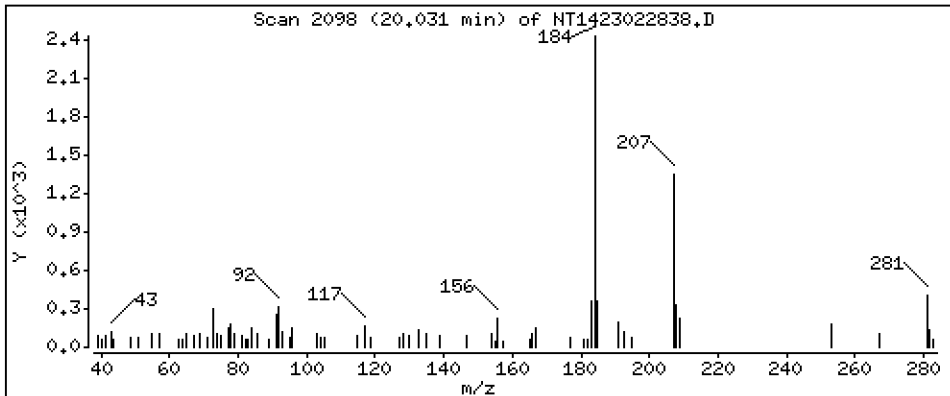
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,2721 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

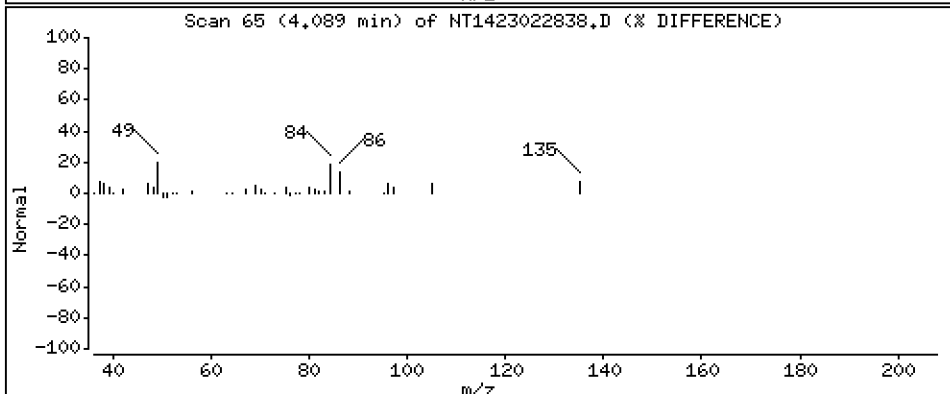
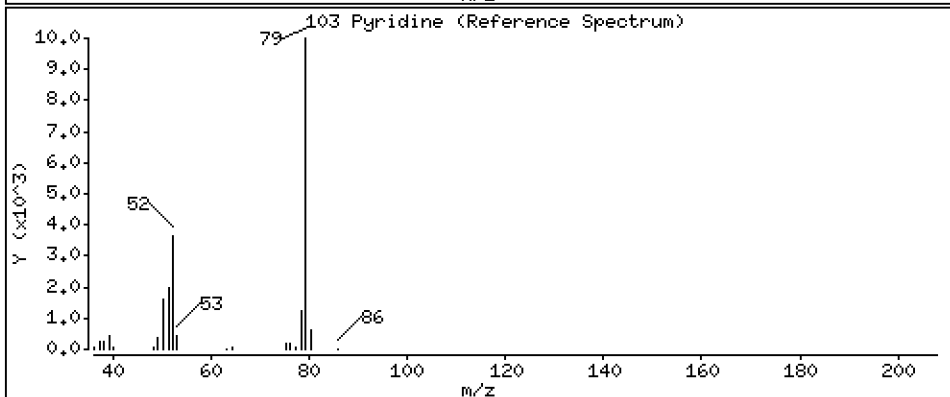
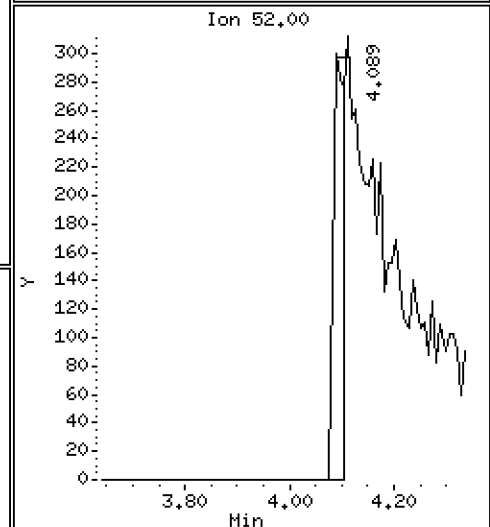
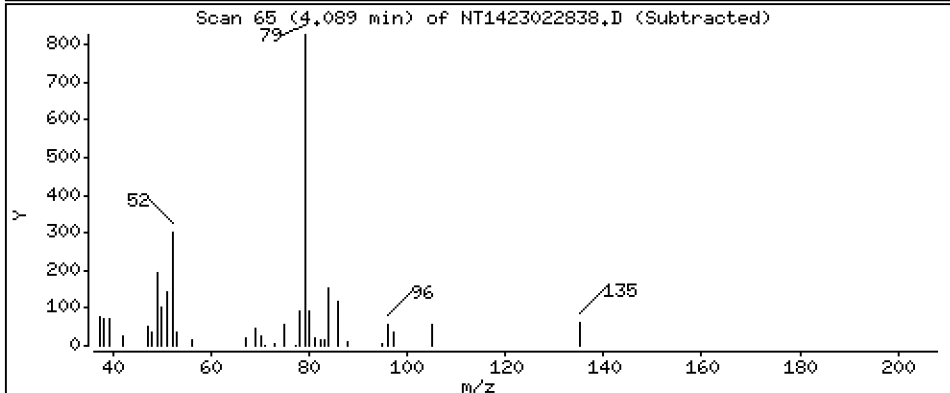
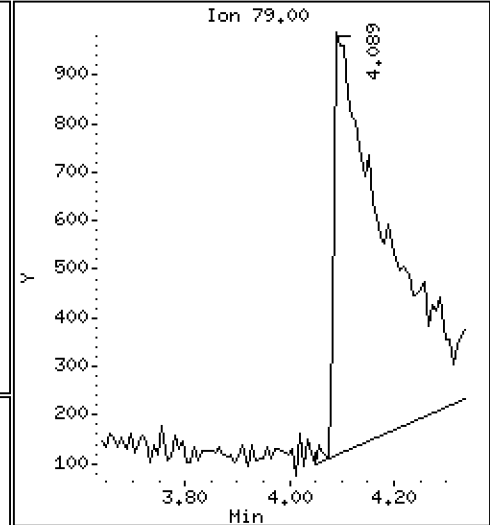
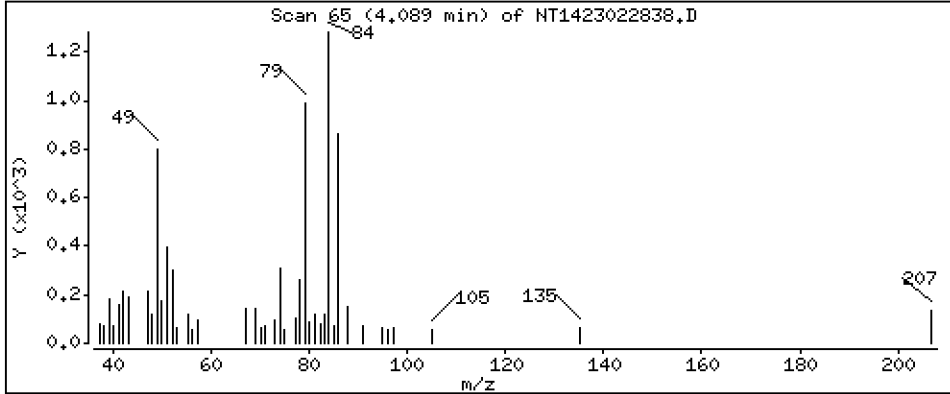
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,1132 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

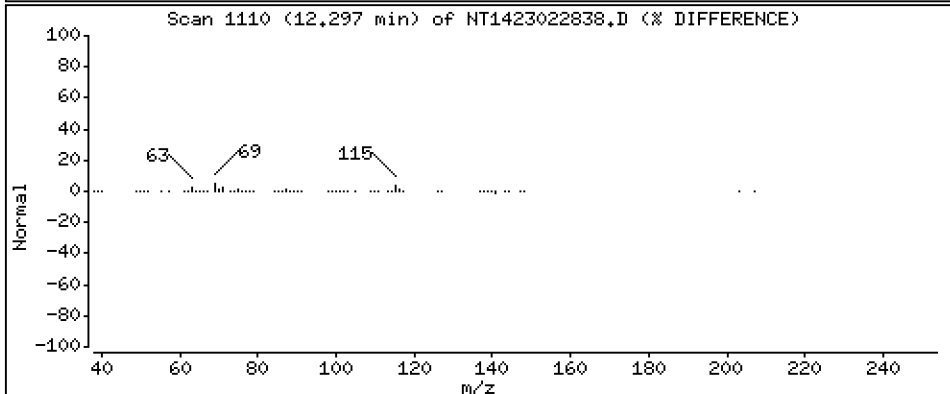
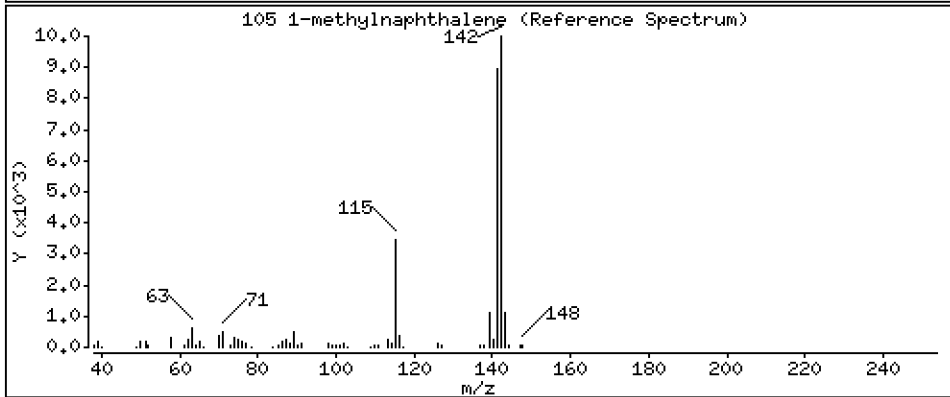
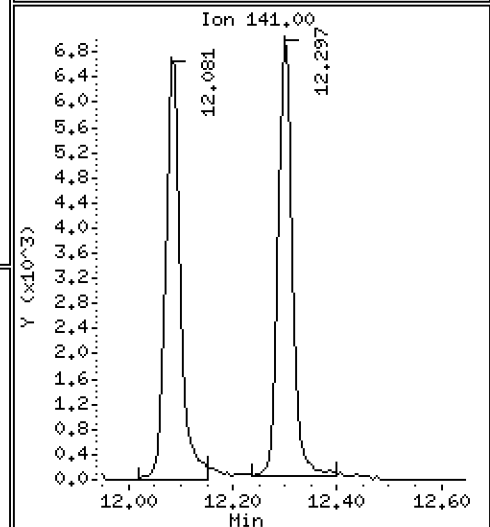
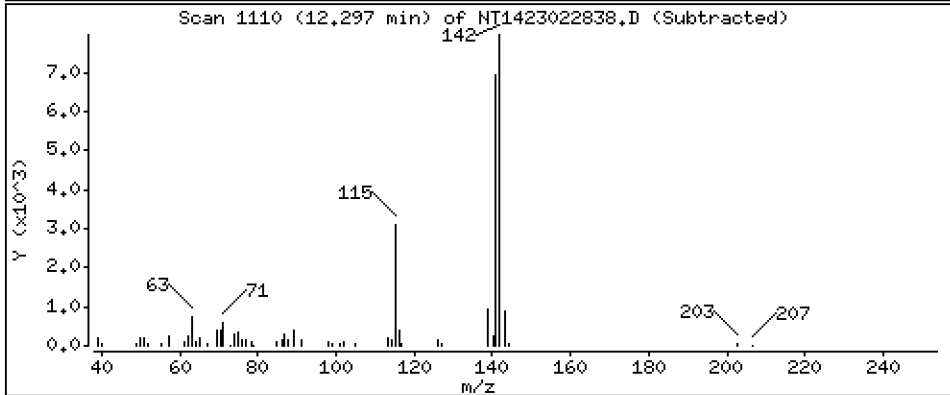
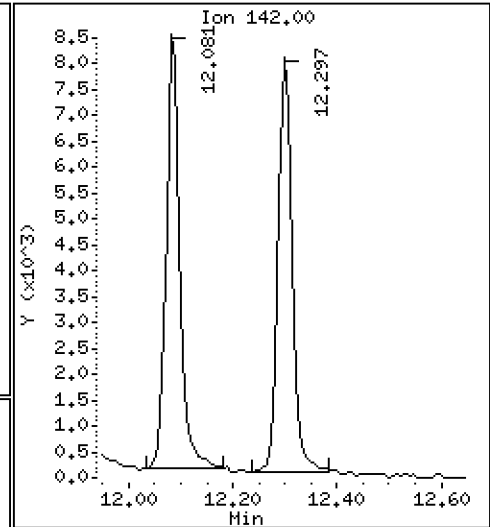
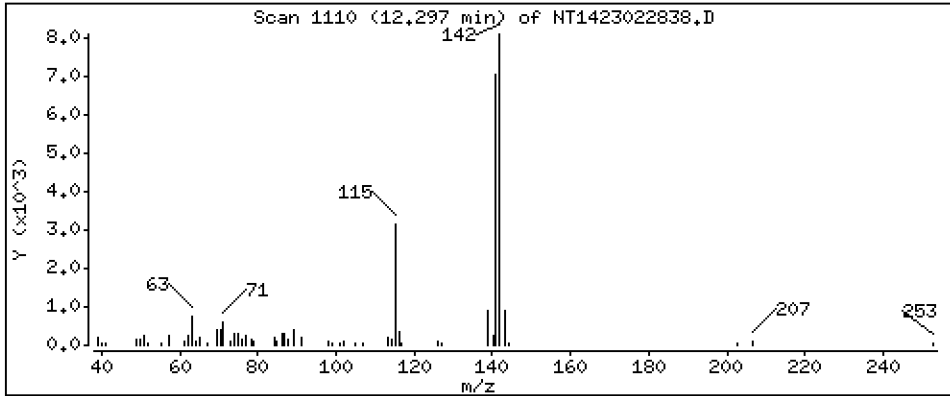
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,1946 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

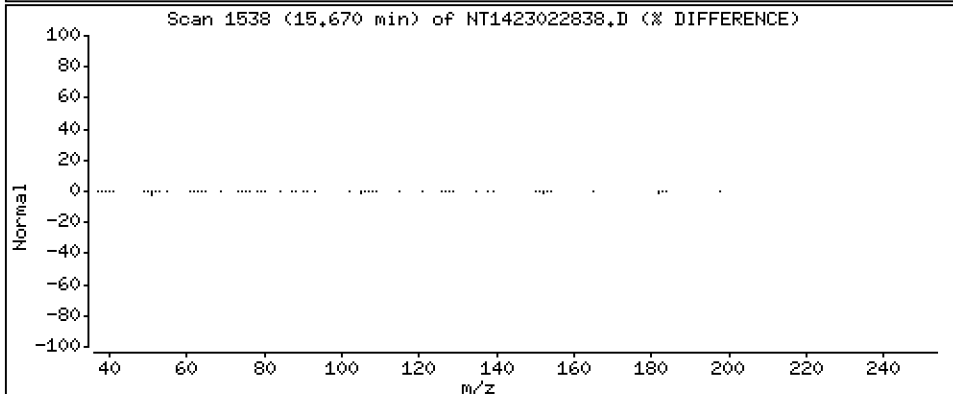
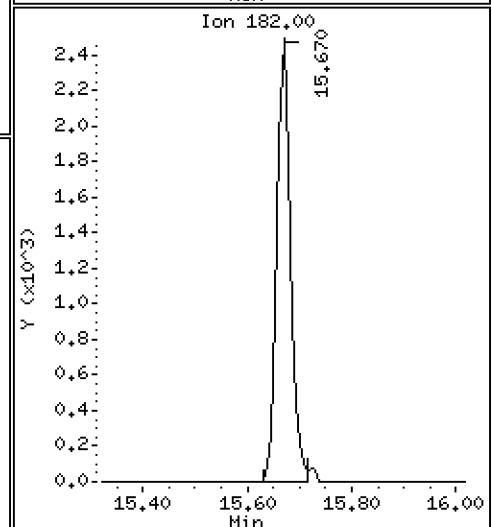
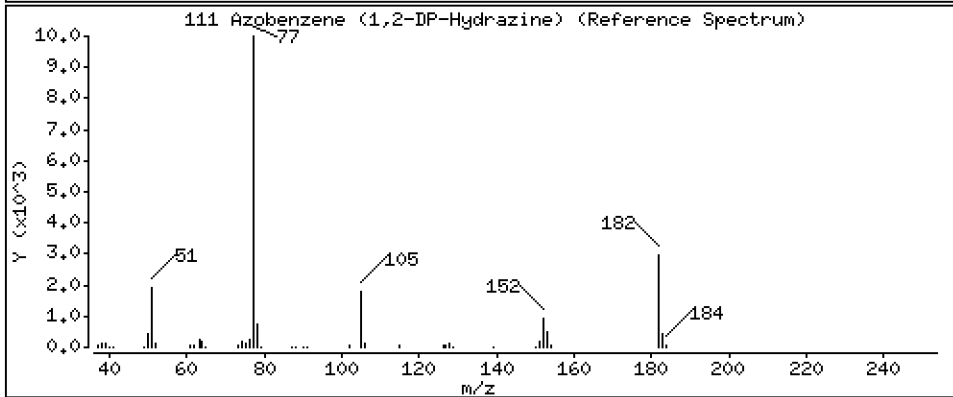
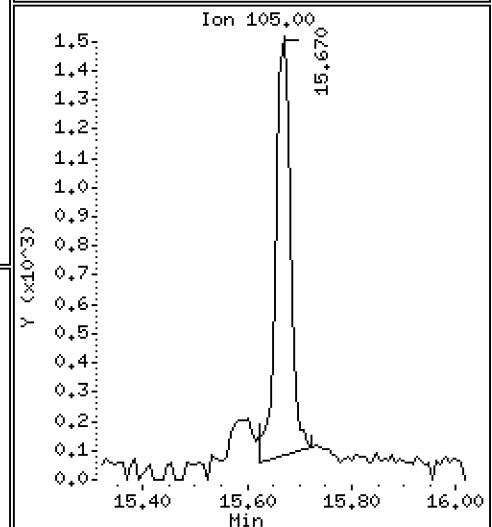
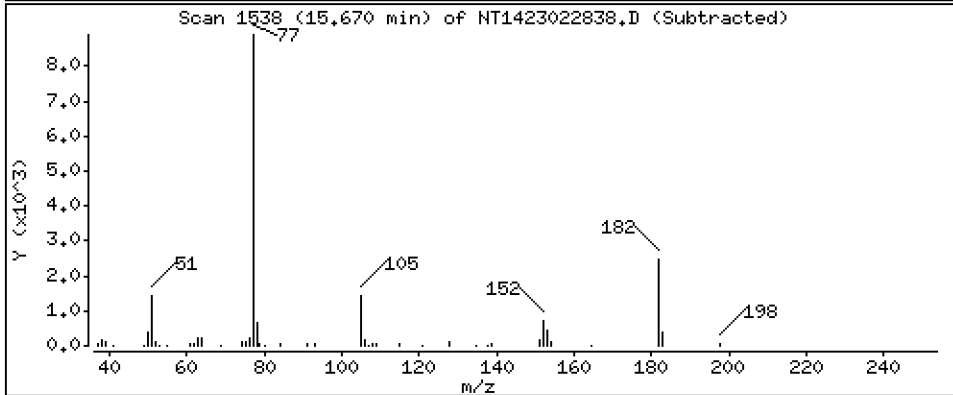
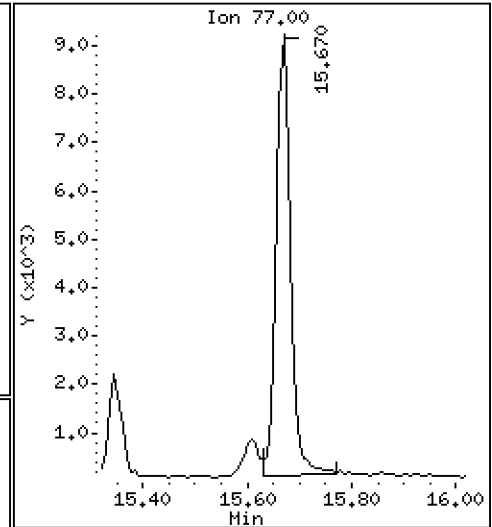
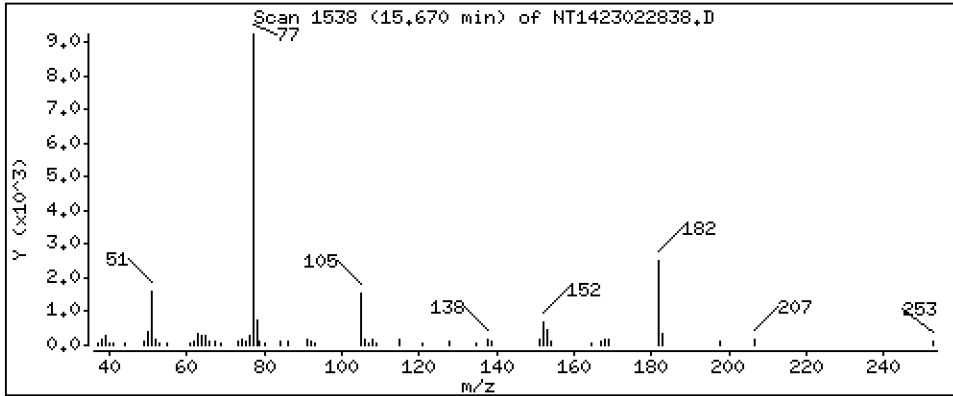
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,2134 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

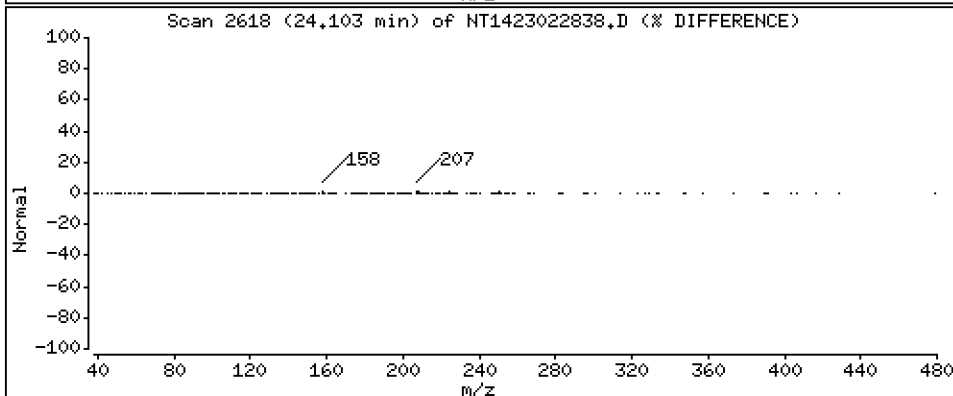
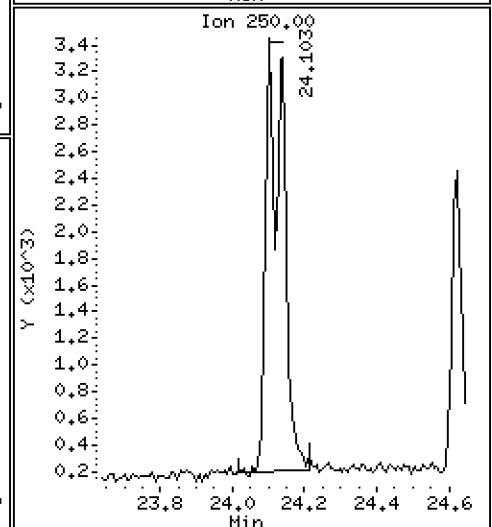
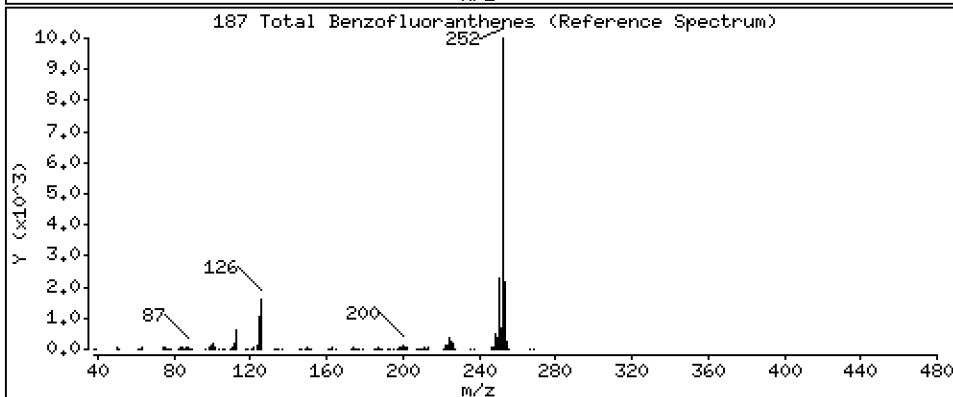
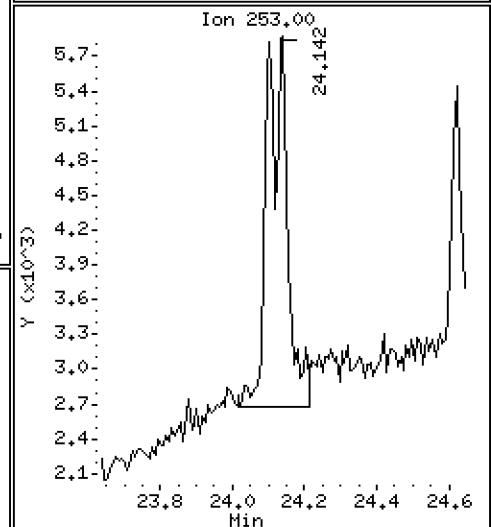
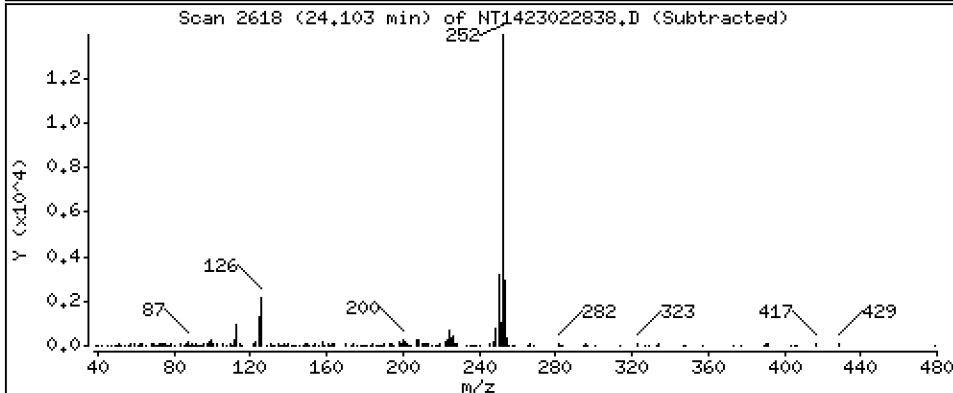
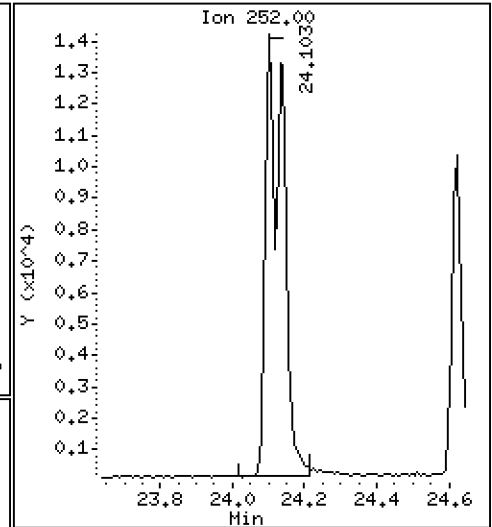
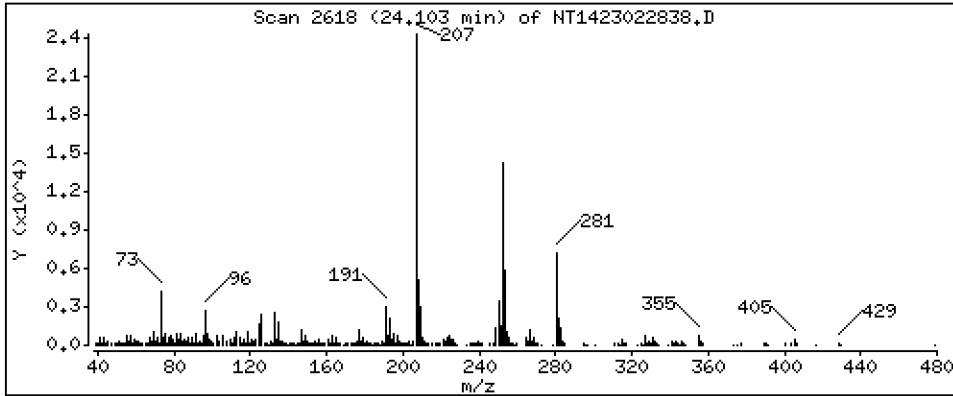
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,4714 ug/mL





Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

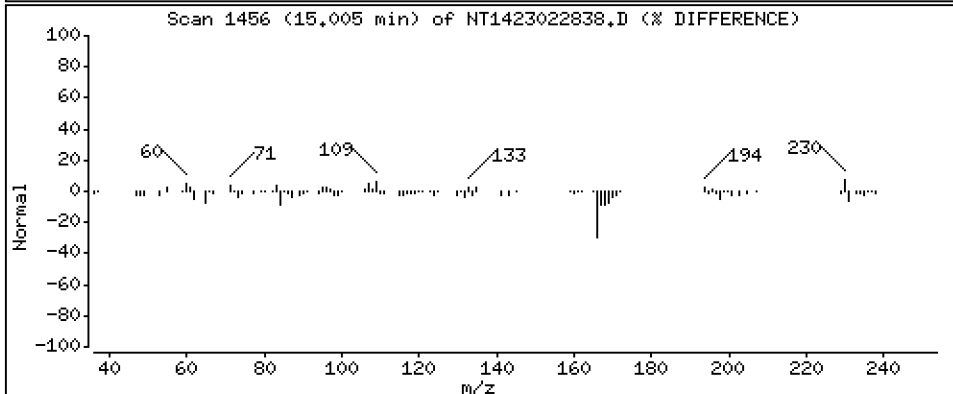
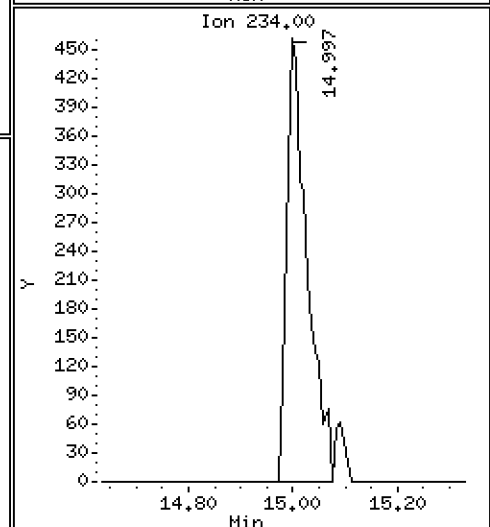
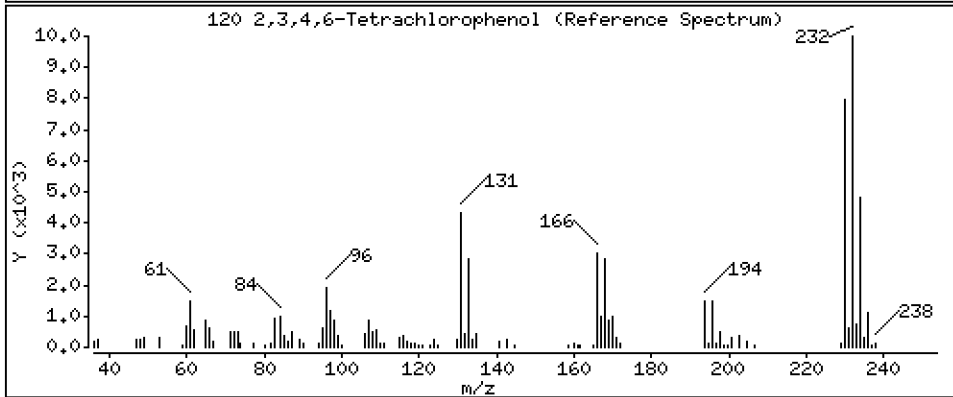
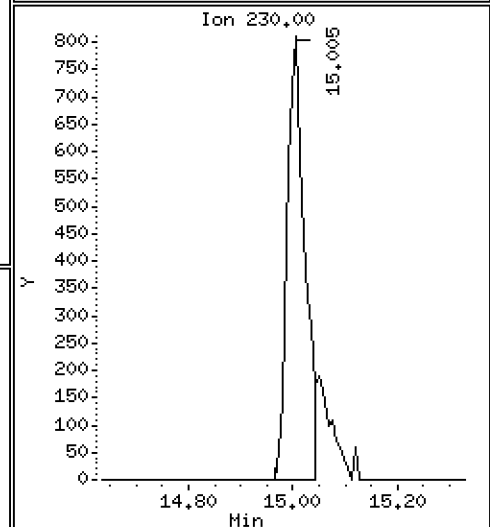
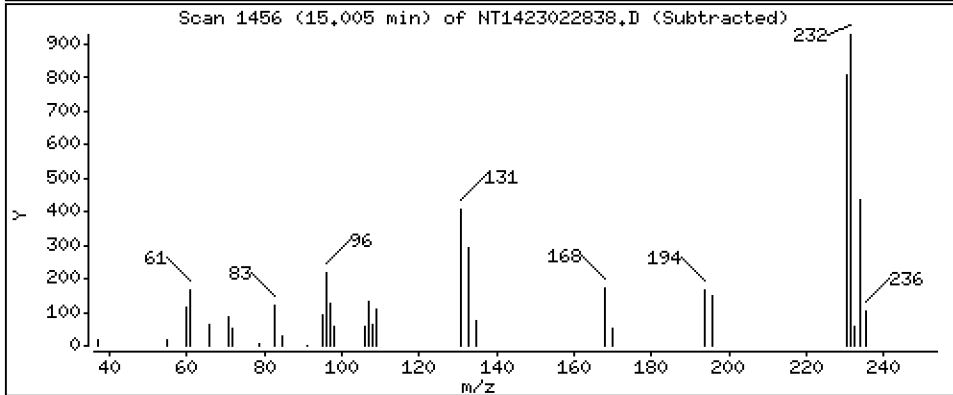
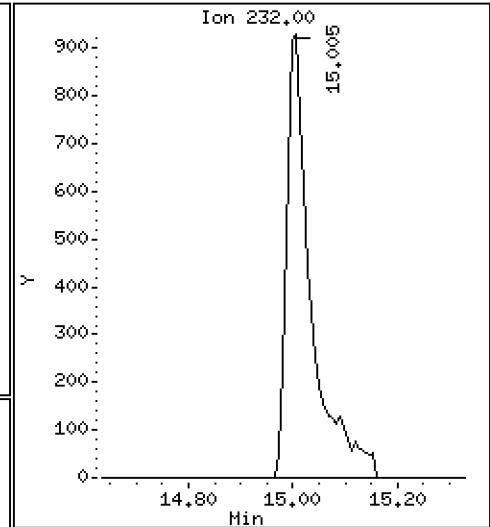
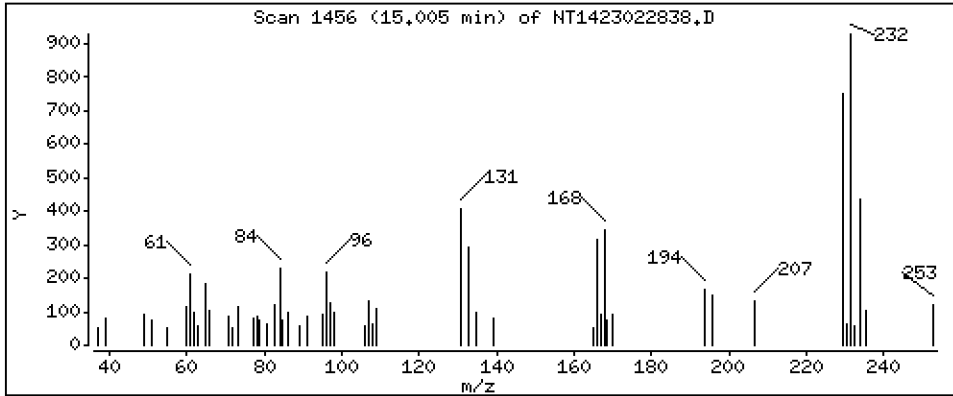
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1181 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022838.D  
 Lab Smp Id: SLB0374-LCV3  
 Inj Date : 01-MAR-2023 23:52 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-LCV3  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 14-Mar-2023 08:52 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 8  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |             |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|-------------|
|                                 |       |     |        |        |         |          | ON-COLUMN      | FINAL       |
|                                 | MASS  |     |        |        |         |          | (ug/mL)        | (ug/mL)     |
| \$ 1 2-Fluorophenol             | 112   |     | 6.073  | 6.050  | (0.741) | 9535     | 0.30742        | 0.3074 (M)  |
| \$ 2 Phenol-d5                  | 99    |     | 7.657  | 7.642  | (0.934) | 12468    | 0.28313        | 0.2831 (M)  |
| 3 Phenol                        | 94    |     | 7.680  | 7.665  | (0.937) | 12239    | 0.23294        | 0.2329 (M)  |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.858  | 7.850  | (0.958) | 10432    | 0.27860        | 0.2786      |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.781  | 7.781  | (0.949) | 8271     | 0.22291        | 0.2229      |
| 6 2-Chlorophenol                | 128   |     | 7.889  | 7.881  | (0.962) | 7013     | 0.18121        | 0.1812      |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.129  | 8.129  | (0.991) | 8928     | 0.20933        | 0.2093      |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.199  | 8.199  | (1.000) | 114387   | 4.00000        |             |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.222  | 8.230  | (1.003) | 9015     | 0.21386        | 0.2139      |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.556  | 8.548  | (1.044) | 5408     | 0.19184        | 0.1918      |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.579  | 8.571  | (1.046) | 8611     | 0.21304        | 0.2130      |
| 11 Benzyl alcohol               | 108   |     | 8.633  | 8.509  | (1.053) | 2158     | 0.09424        | 0.09424 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.796  | 8.789  | (1.073) | 2290     | 0.21008        | 0.2101      |
| 13 2-Methylphenol               | 108   |     | 8.765  | 8.750  | (1.069) | 5703     | 0.17181        | 0.1718      |
| 17 Hexachloroethane             | 117   |     | 9.153  | 9.154  | (1.116) | 2329     | 0.14712        | 0.1471      |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.053  | 9.053  | (1.104) | 5267     | 0.20840        | 0.2084      |
| 15 4-Methylphenol               | 108   |     | 9.053  | 9.022  | (1.104) | 4329     | 0.11189        | 0.1119      |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.293  | 9.285  | (0.873) | 7709     | 0.19460        | 0.1946      |
| 19 Nitrobenzene                 | 77    |     | 9.332  | 9.324  | (0.876) | 7609     | 0.19988        | 0.1999      |
| 20 Isophorone                   | 82    |     | 9.774  | 9.774  | (0.918) | 9393     | 0.15785        | 0.1578      |
| 21 2-Nitrophenol                | 139   |     | 9.960  | 9.945  | (0.935) | 3047     | 0.15467        | 0.1547 (M)  |
| 22 2,4-Dimethylphenol           | 107   |     | 10.054 | 10.046 | (0.944) | 13974    | 0.40266        | 0.4027      |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.232 | 10.224 | (0.961) | 7016     | 0.18332        | 0.1833      |
| 24 Benzoic acid                 | 105   |     | 11.360 | 10.364 | (1.067) | 1124     | 0.08173        | 0.08173 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | 10.433 | 10.410 | (0.980) | 11246    | 0.31939        | 0.3194 (M)  |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.572 | 10.572 | (0.993) | 7820     | 0.19938        | 0.1994      |
| * 27 Naphthalene-d8             | 136   |     | 10.649 | 10.649 | (1.000) | 404965   | 4.00000        |             |
| 28 Naphthalene                  | 128   |     | 10.688 | 10.688 | (1.004) | 23285    | 0.21556        | 0.2156      |
| 29 4-Chloroaniline              | 127   |     | 10.873 | 10.850 | (1.021) | 16061    | 0.34762        | 0.3476 (M)  |
| 30 Hexachlorobutadiene          | 225   |     | 11.066 | 11.066 | (1.039) | 4255     | 0.17779        | 0.1778      |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.871 | 11.848 | (1.115) | 10175    | 0.32573        | 0.3257 (M)  |
| 32 2-Methylnaphthalene          | 142   |     | 12.080 | 12.080 | (1.134) | 15399    | 0.19251        | 0.1925      |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.320 | 12.545 | (0.866) | 68       | 0.00285        | 0.002849    |

| Compounds                         | QUANT SIG |                        |        |         |          | CONCENTRATIONS       |                  |  |
|-----------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|--|
|                                   | MASS      | RT                     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |  |
| 34 2,4,6-Trichlorophenol          | 196       | 12.730                 | 12.723 | (0.895) | 7025     | 0.31610              | 0.3161           |  |
| 35 2,4,5-Trichlorophenol          | 196       | 12.831                 | 12.800 | (0.902) | 8318     | 0.34616              | 0.3462 (M)       |  |
| § 36 2-Fluorobiphenyl             | 172       | 12.877                 | 12.877 | (0.905) | 18353    | 0.20726              | 0.2073           |  |
| 37 2-Chloronaphthalene            | 162       | 13.063                 | 13.063 | (0.918) | 13983    | 0.19699              | 0.1970           |  |
| 38 2-Nitroaniline                 | 65        | 13.373                 | 13.349 | (0.940) | 6124     | 0.33079              | 0.3308           |  |
| 39 Dimethylphthalate              | 163       | 13.798                 | 13.798 | (0.970) | 14994    | 0.20953              | 0.2095           |  |
| 40 Acenaphthylene                 | 152       | 13.922                 | 13.922 | (0.978) | 22974    | 0.22057              | 0.2206           |  |
| 41 2,6-Dinitrotoluene             | 165       | 13.930                 | 13.930 | (0.979) | 6086     | 0.36293              | 0.3629           |  |
| * 42 Acenaphthene-d10             | 164       | 14.232                 | 14.239 | (1.000) | 227510   | 4.00000              |                  |  |
| 43 3-Nitroaniline                 | 138       | 14.247                 | 14.208 | (1.001) | 5035     | 0.29295              | 0.2929 (M)       |  |
| 44 Acenaphthene                   | 153       | 14.301                 | 14.301 | (1.005) | 14164    | 0.21239              | 0.2124           |  |
| 45 2,4-Dinitrophenol              | 184       | Compound Not Detected. |        |         |          |                      |                  |  |
| 46 Dibenzofuran                   | 168       | 14.634                 | 14.634 | (1.028) | 21018    | 0.19807              | 0.1981           |  |
| 47 4-Nitrophenol                  | 109       | 14.842                 | 14.587 | (1.043) | 1763     | 0.20771              | 0.2077 (M)       |  |
| 48 2,4-Dinitrotoluene             | 165       | 14.734                 | 14.726 | (1.035) | 6423     | 0.26606              | 0.2661           |  |
| 50 Diethylphthalate               | 149       | 15.244                 | 15.252 | (1.071) | 14200    | 0.21220              | 0.2122           |  |
| 49 Fluorene                       | 166       | 15.337                 | 15.337 | (1.078) | 19025    | 0.21279              | 0.2128           |  |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.345                 | 15.345 | (1.078) | 9356     | 0.19668              | 0.1967           |  |
| 52 4-Nitroaniline                 | 138       | 15.530                 | 15.469 | (1.091) | 4597     | 0.26982              | 0.2698 (M)       |  |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.577                 | 15.553 | (0.903) | 1931     | 0.13939              | 0.1394 (M)       |  |
| 54 N-Nitrosodiphenylamine         | 169       | 15.607                 | 15.607 | (0.905) | 11037    | 0.21070              | 0.2107           |  |
| § 55 2,4,6-Tribromophenol         | 330       | 15.877                 | 15.870 | (1.116) | 2484     | 0.20332              | 0.2033 (M)       |  |
| 56 4-Bromophenyl-phenylether      | 248       | 16.340                 | 16.340 | (0.948) | 4483     | 0.19467              | 0.1947           |  |
| 57 Hexachlorobenzene              | 284       | 16.626                 | 16.634 | (0.964) | 5394     | 0.21304              | 0.2130           |  |
| 58 Pentachlorophenol              | 266       | 17.044                 | 17.005 | (0.988) | 1337     | 0.11229              | 0.1123 (M)       |  |
| * 59 Phenanthrene-d10             | 188       | 17.245                 | 17.245 | (1.000) | 416834   | 4.00000              |                  |  |
| 60 Phenanthrene                   | 178       | 17.291                 | 17.291 | (1.003) | 22224    | 0.20042              | 0.2004           |  |
| 61 Anthracene                     | 178       | 17.384                 | 17.384 | (1.008) | 21080    | 0.20109              | 0.2011           |  |
| 62 Carbazole                      | 167       | 17.748                 | 17.732 | (1.029) | 16859    | 0.18350              | 0.1835           |  |
| 63 Di-n-butylphthalate            | 149       | 18.591                 | 18.591 | (1.078) | 21721    | 0.18302              | 0.1830           |  |
| 64 Fluoranthene                   | 202       | 19.713                 | 19.713 | (0.882) | 23739    | 0.18367              | 0.1837           |  |
| 65 Pyrene                         | 202       | 20.139                 | 20.139 | (0.901) | 25001    | 0.18347              | 0.1835           |  |
| § 66 Terphenyl-d14                | 244       | 20.471                 | 20.471 | (0.916) | 18974    | 0.18084              | 0.1808           |  |
| 67 Butylbenzylphthalate           | 149       | 21.439                 | 21.439 | (0.959) | 9570     | 0.19839              | 0.1984           |  |
| 68 Benzo(a)anthracene             | 228       | 22.337                 | 22.337 | (0.999) | 25252    | 0.22128              | 0.2213           |  |
| * 69 Chrysene-d12                 | 240       | 22.361                 | 22.368 | (1.000) | 340670   | 4.00000              |                  |  |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.330                 | 22.330 | (0.999) | 23445    | 0.71941              | 0.7194           |  |
| 71 Chrysene                       | 228       | 22.407                 | 22.415 | (1.002) | 23584    | 0.21501              | 0.2150           |  |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.492                 | 22.492 | (0.958) | 13105    | 0.17691              | 0.1769           |  |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.468                 | 23.476 | (1.000) | 485089   | 4.00000              |                  |  |
| 73 Di-n-octylphthalate            | 149       | 23.483                 | 23.483 | (1.001) | 25909    | 0.20285              | 0.2029           |  |
| 74 Benzo(b)fluoranthene           | 252       | 24.103                 | 24.103 | (0.976) | 23233    | 0.22278              | 0.2228           |  |
| 75 Benzo(k)fluoranthene           | 252       | 24.134                 | 24.141 | (0.977) | 27728    | 0.24645              | 0.2464           |  |
| 76 Benzo(a)pyrene                 | 252       | 24.621                 | 24.621 | (0.997) | 19040    | 0.21280              | 0.2128           |  |
| * 77 Perylene-d12                 | 264       | 24.707                 | 24.714 | (1.000) | 315652   | 4.00000              |                  |  |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.808                 | 26.784 | (1.085) | 10163    | 0.09023              | 0.09023          |  |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.823                 | 26.800 | (1.086) | 9425     | 0.09853              | 0.09853          |  |
| 80 Benzo(g,h,i)perylene           | 276       | 27.406                 | 27.383 | (1.109) | 7014     | 0.07140              | 0.07140          |  |
| 90 N-Nitrosodimethylamine         | 74        | 4.004                  | 3.988  | (0.488) | 4536     | 0.19252              | 0.1925           |  |
| 91 Aniline                        | 93        | 7.688                  | 7.681  | (0.938) | 16293    | 0.29998              | 0.3000           |  |
| 93 Benzidine                      | 184       | 20.030                 | 19.992 | (0.896) | 15043    | 0.27208              | 0.2721 (M)       |  |
| 103 Pyridine                      | 79        | 4.089                  | 3.988  | (0.499) | 7869     | 0.11320              | 0.1132 (M)       |  |
| 105 1-methylnaphthalene           | 142       | 12.297                 | 12.297 | (1.155) | 14333    | 0.19463              | 0.1946           |  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.669                 | 15.669 | (1.101) | 16398    | 0.21345              | 0.2134           |  |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 24.103 | 24.141 | (0.976) | 48086    | 0.47135              | 0.4714           |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 15.005 | 14.981 | (1.054) | 3021     | 0.11806              | 0.1181 (M)       |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023  
 Lab File ID: NT1423022838.D Calibration Time: 22:40  
 Lab Smp Id: SLB0374-LCV3  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 115350   | 57675      | 230700  | 114387 | -0.83  |
| 27 Naphthalene-d8     | 415895   | 207948     | 831790  | 404965 | -2.63  |
| 42 Acenaphthene-d10   | 246020   | 123010     | 492040  | 227510 | -7.52  |
| 59 Phenanthrene-d10   | 448598   | 224299     | 897196  | 416834 | -7.08  |
| 69 Chrysene-d12       | 373978   | 186989     | 747956  | 340670 | -8.91  |
| 134 Di-n-octylphthala | 541572   | 270786     | 1083144 | 485089 | -10.43 |
| 77 Perylene-d12       | 357819   | 178910     | 715638  | 315652 | -11.78 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.20     | 7.70     | 8.70  | 8.20   | -0.00 |
| 27 Naphthalene-d8     | 10.65    | 10.15    | 11.15 | 10.65  | -0.00 |
| 42 Acenaphthene-d10   | 14.24    | 13.74    | 14.74 | 14.23  | -0.05 |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.25  | -0.00 |
| 69 Chrysene-d12       | 22.37    | 21.87    | 22.87 | 22.36  | -0.03 |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.47  | -0.03 |
| 77 Perylene-d12       | 24.71    | 24.21    | 25.21 | 24.71  | -0.03 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022838.D

Lab ID: SLB0374-LCV3  
nt14.i, ABN.m, 01-MAR-2023 23:52

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND                  |
|-------|---------|---------|---------------------------|
| 1.053 | 1.038   | 0.0151  | Benzyl alcohol            |
| 1.067 | 0.973   | 0.0936  | Benzoic acid              |
| 0.866 | 0.881   | -0.0153 | Hexachlorocyclopentadiene |
| 1.043 | 1.024   | 0.0185  | 4-Nitrophenol             |
| 0.499 | 0.486   | 0.0122  | Pyridine                  |

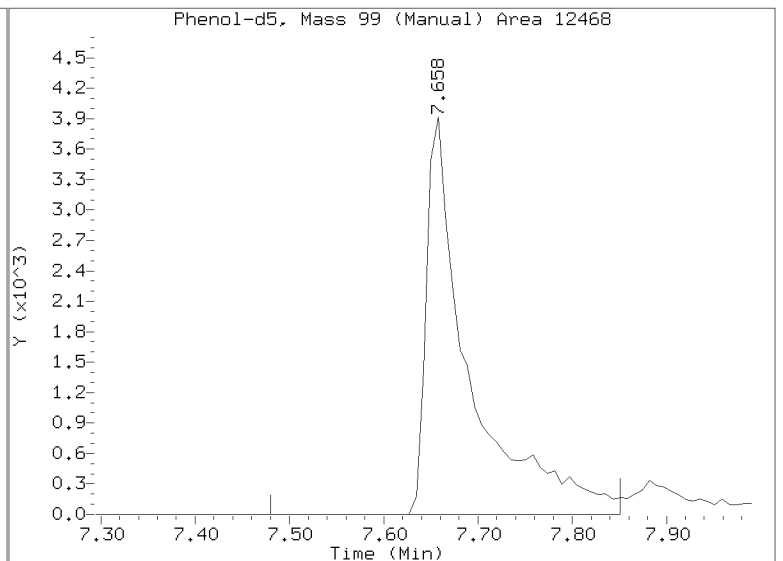
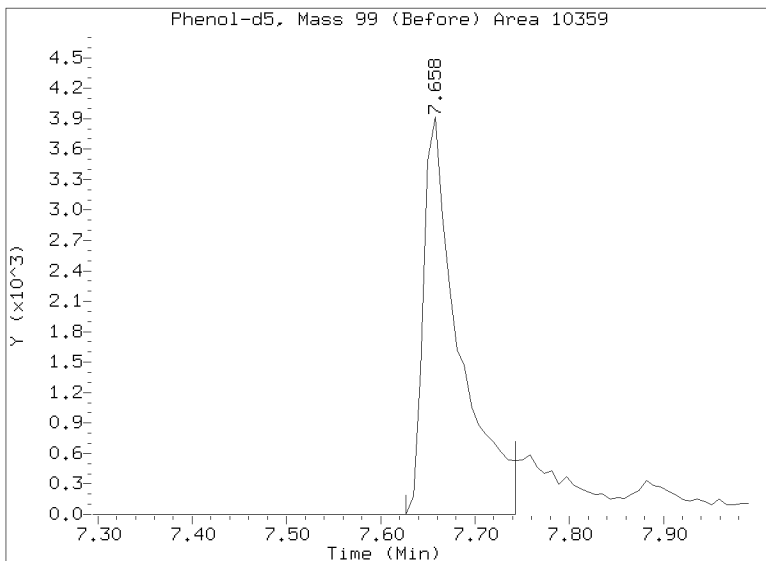
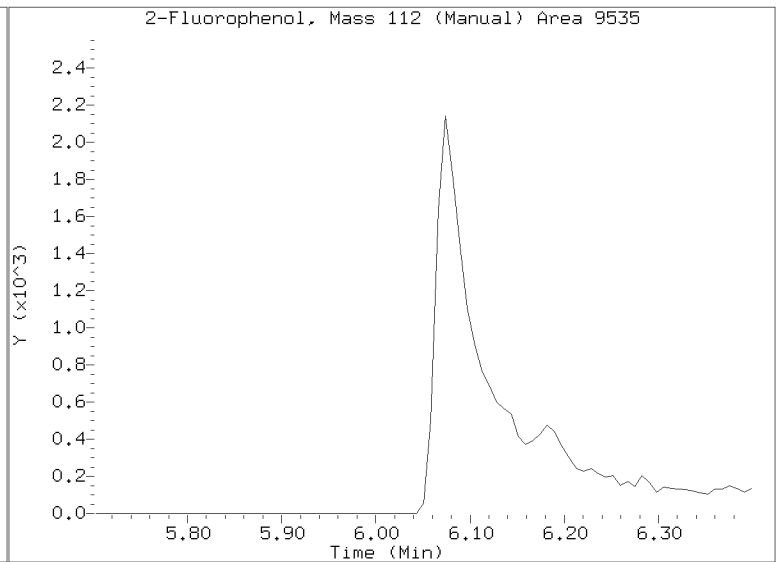
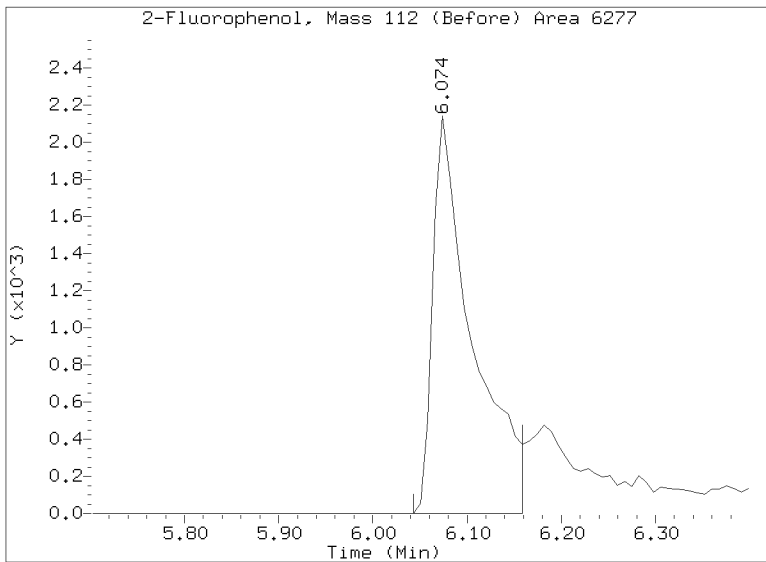
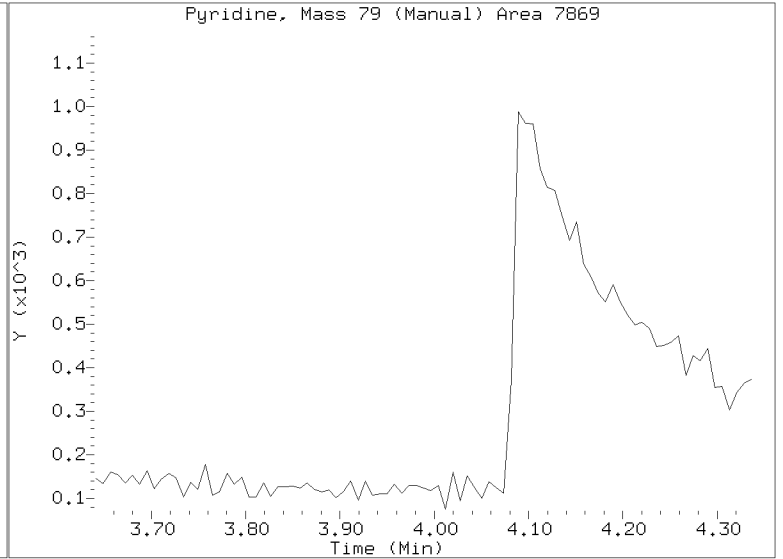
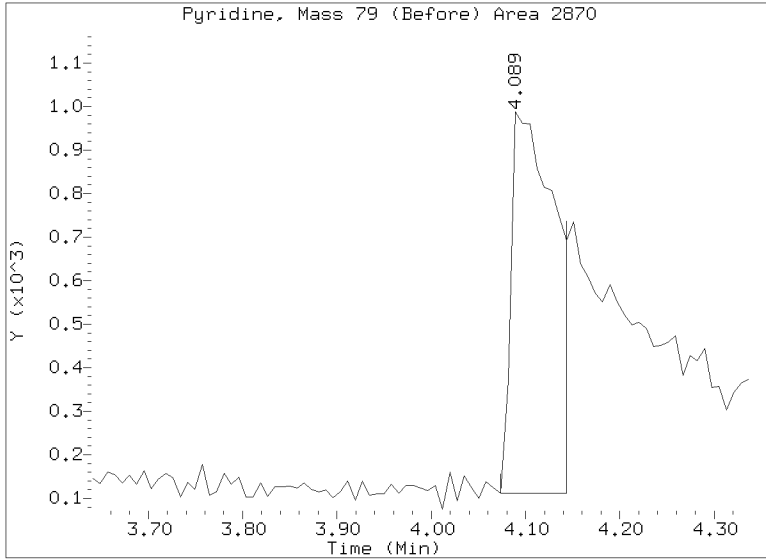
RRT check based on Ccal File: NT1423022836.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

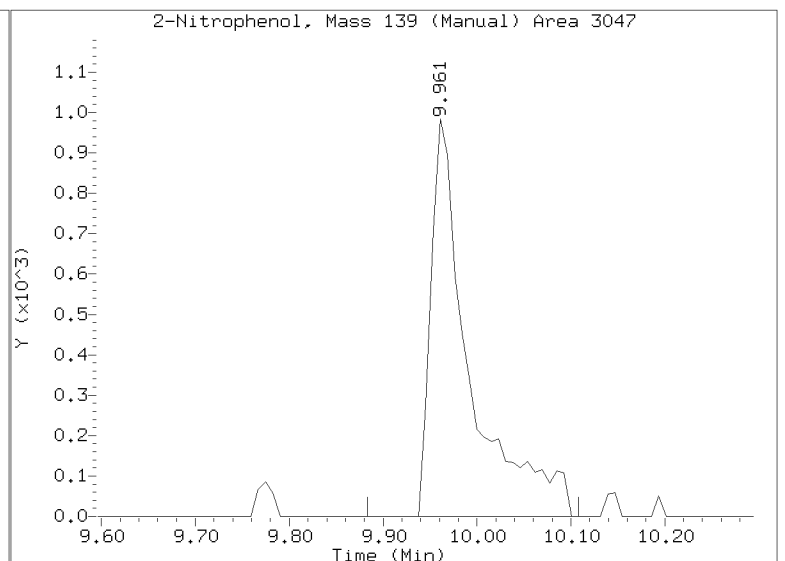
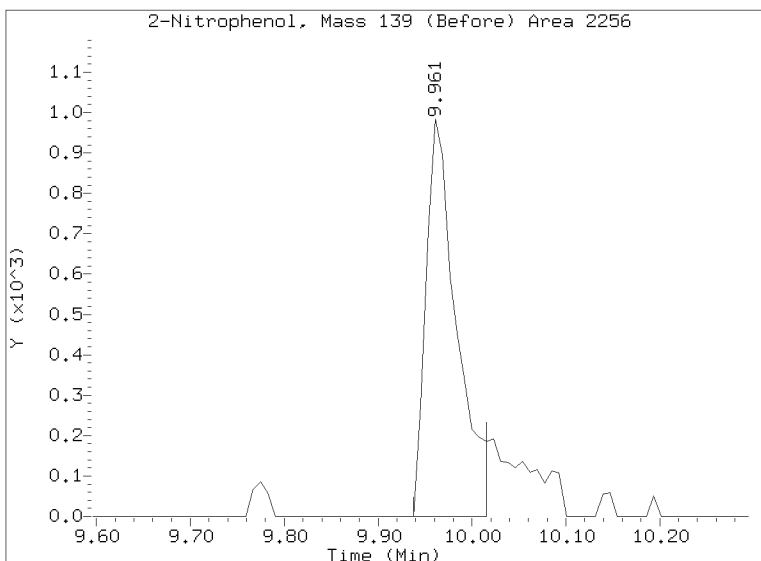
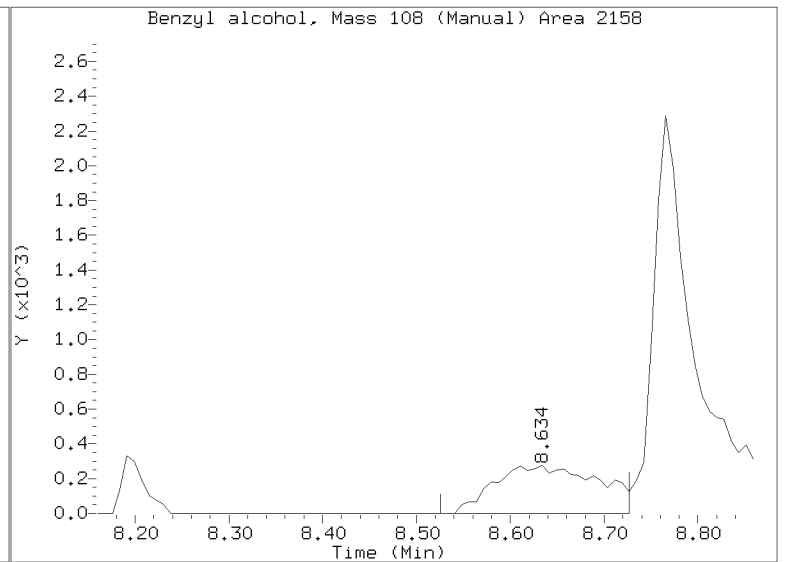
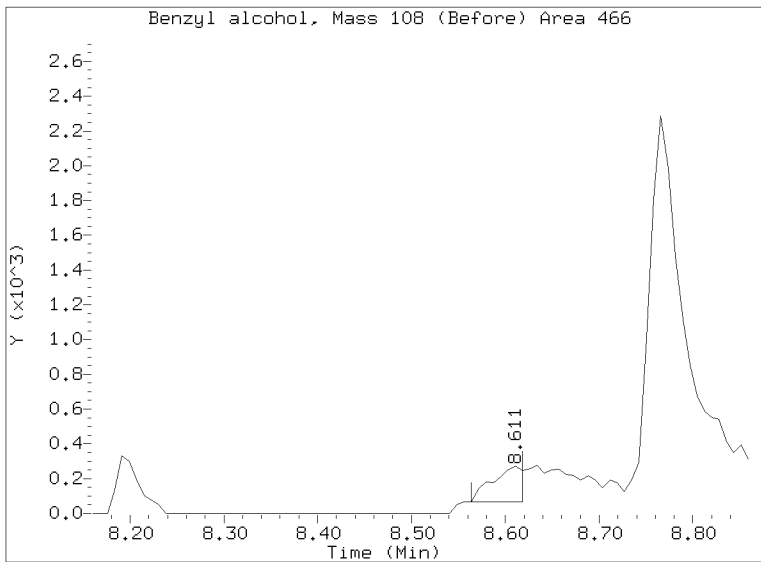
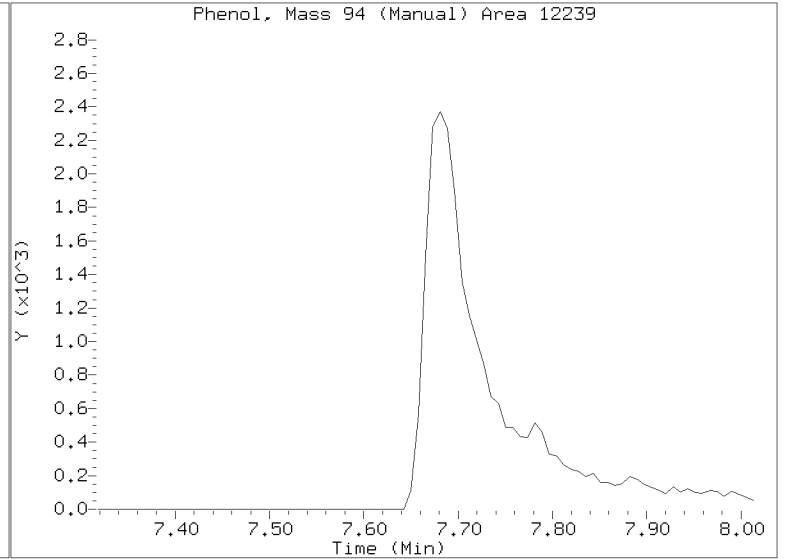
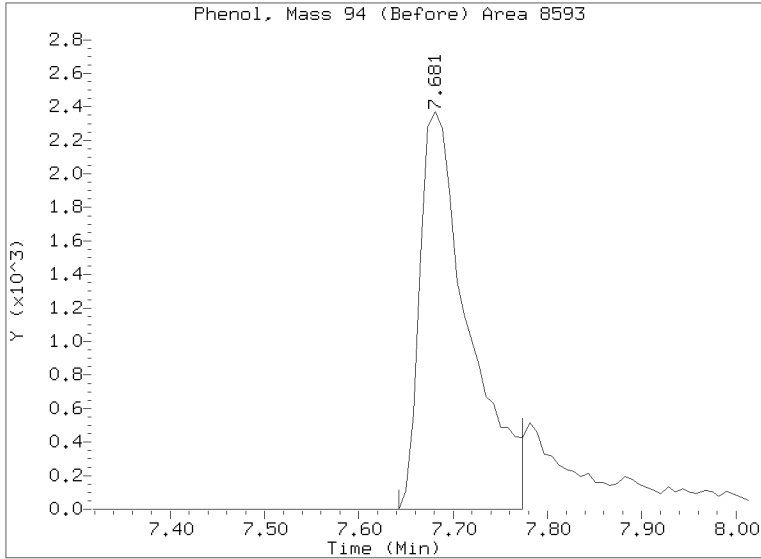
# Quant Ion Manual Peak Adjustment Report

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Injection Date: 01-MAR-2023 23:52  
Lab ID:SLB0374-LCV3 Client ID:  
Report Date: 03/14/2023 08:52



# Quant Ion Manual Peak Adjustment Report

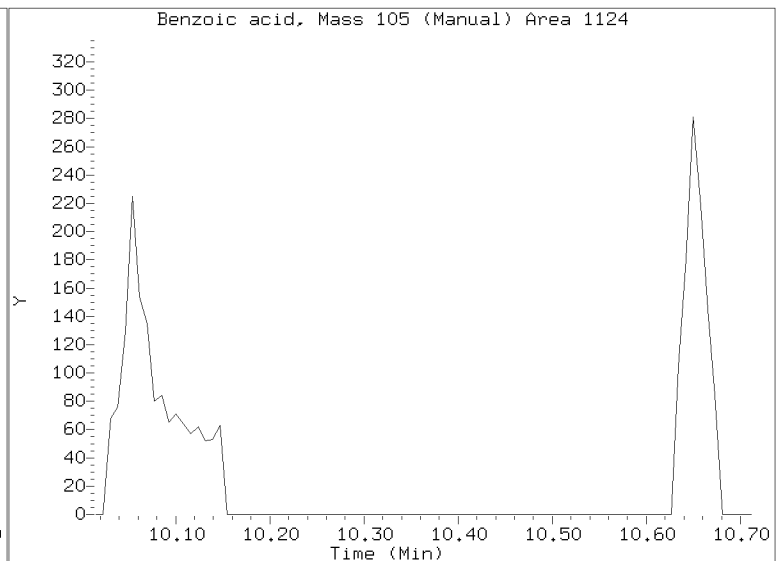
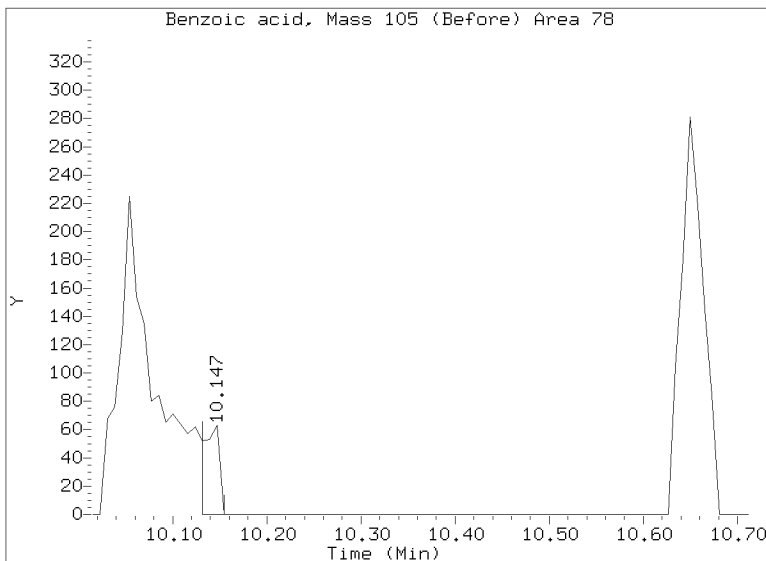
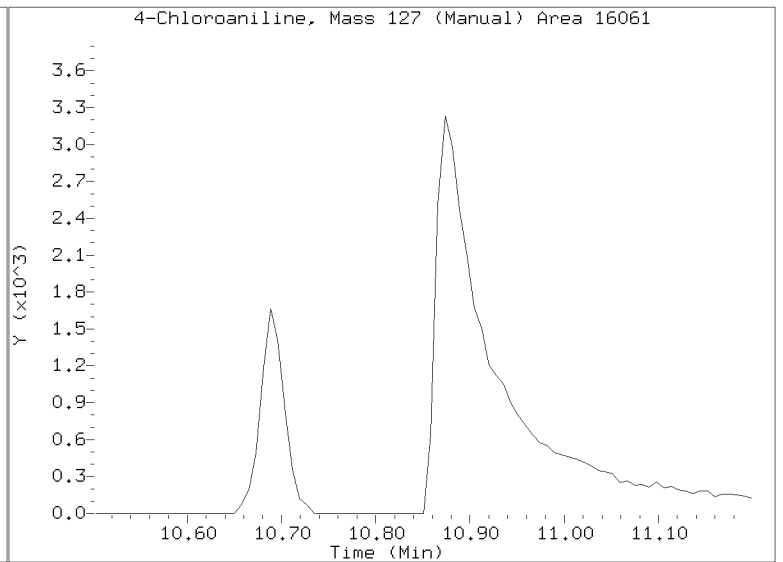
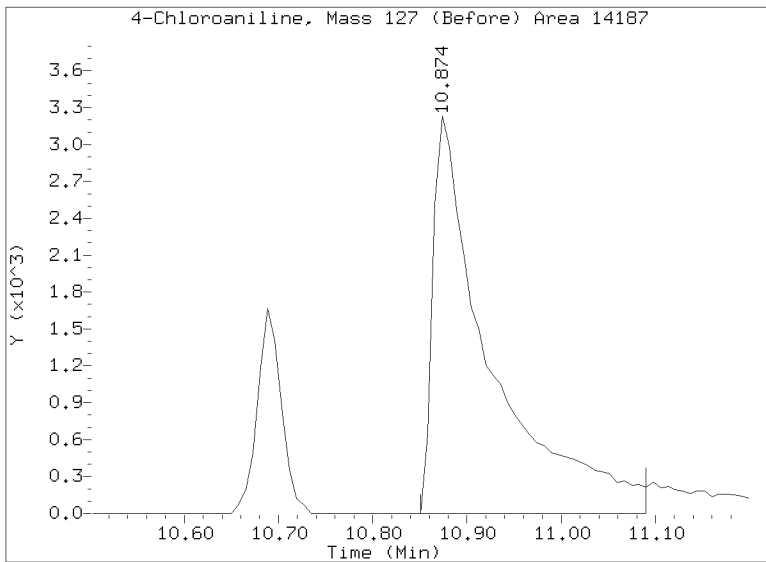
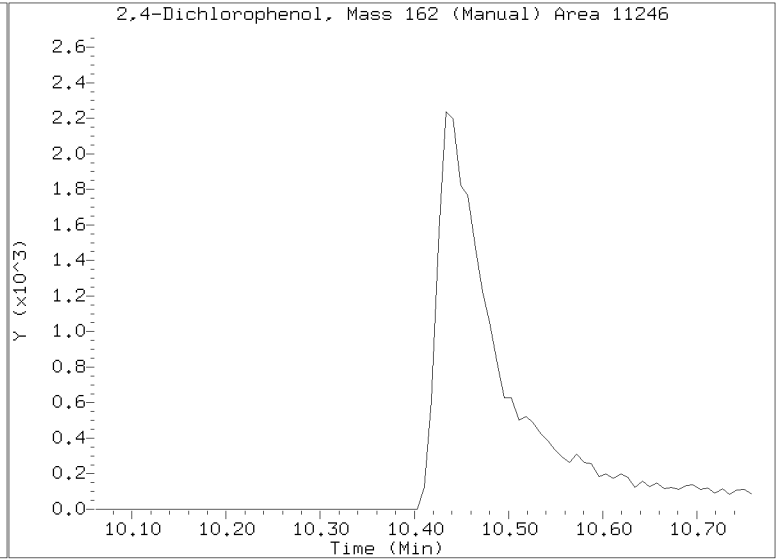
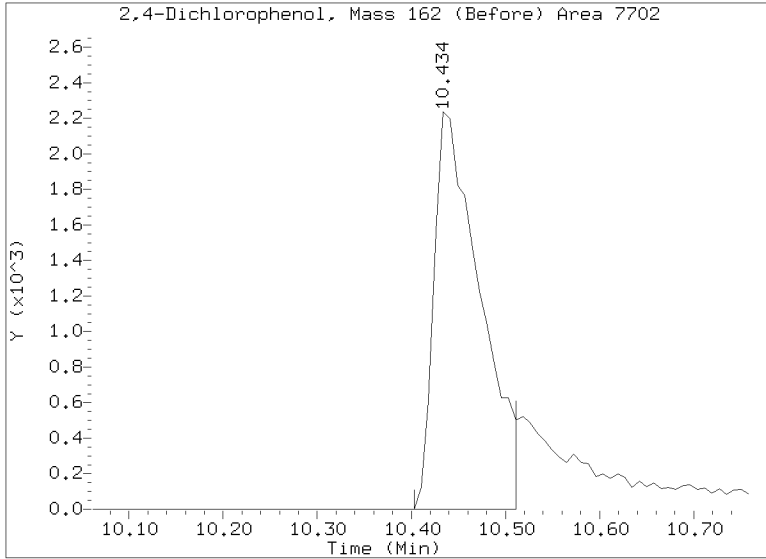
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Injection Date: 01-MAR-2023 23:52  
Lab ID:SLB0374-LCV3 Client ID:  
Report Date: 03/14/2023 08:52





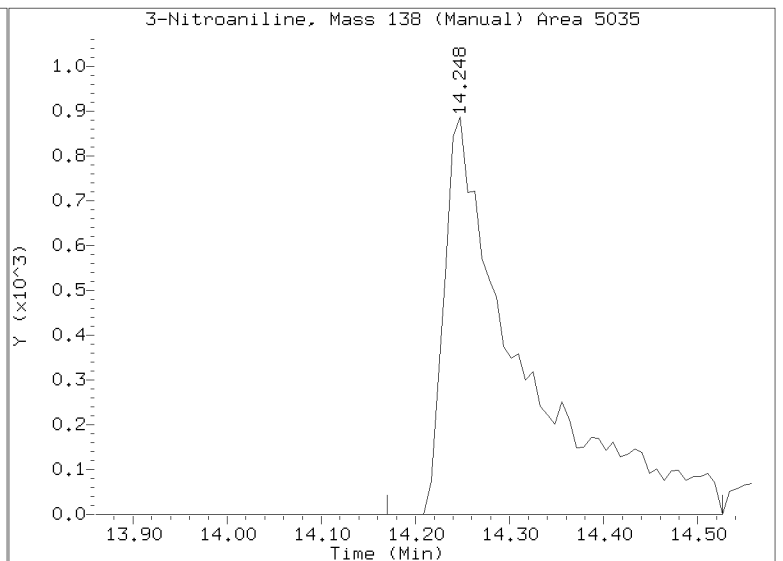
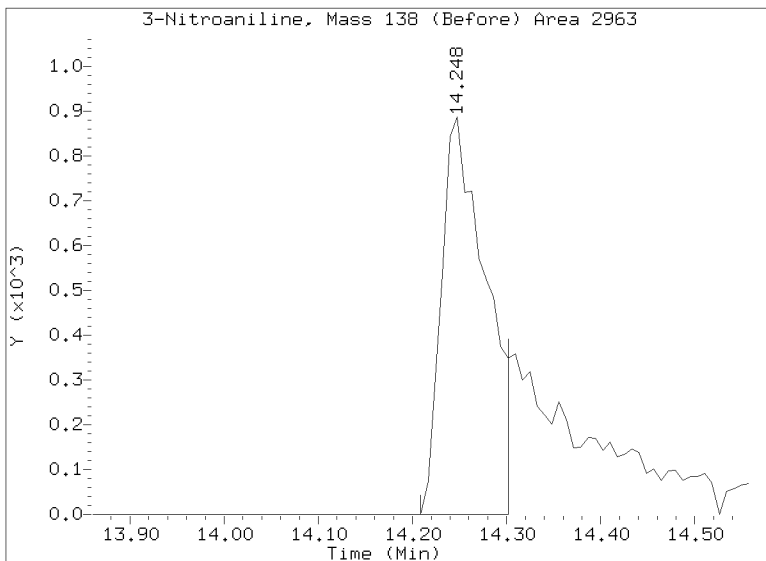
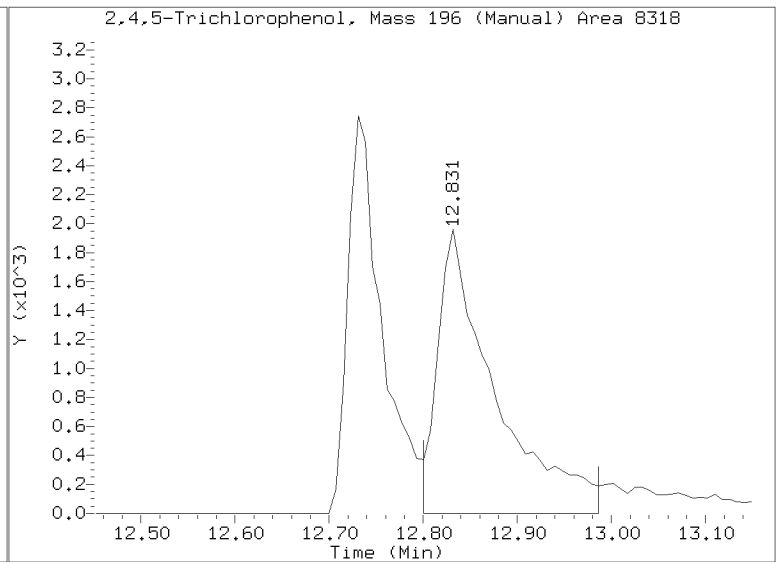
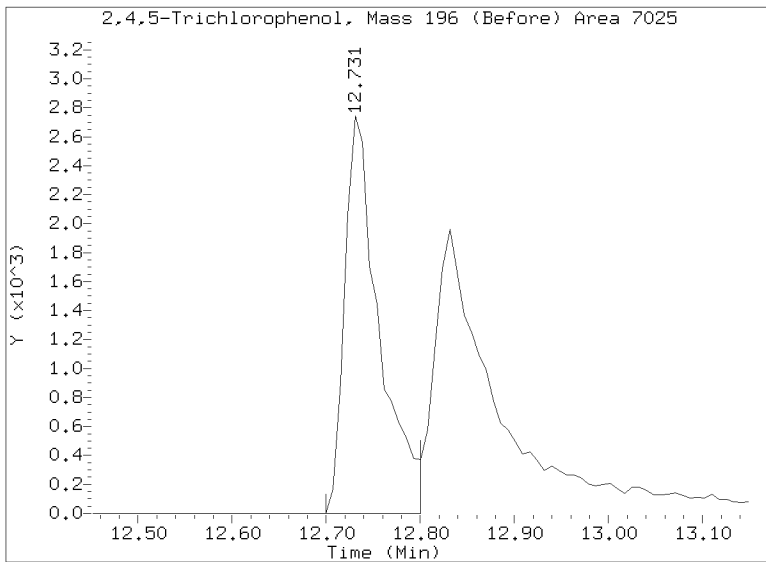
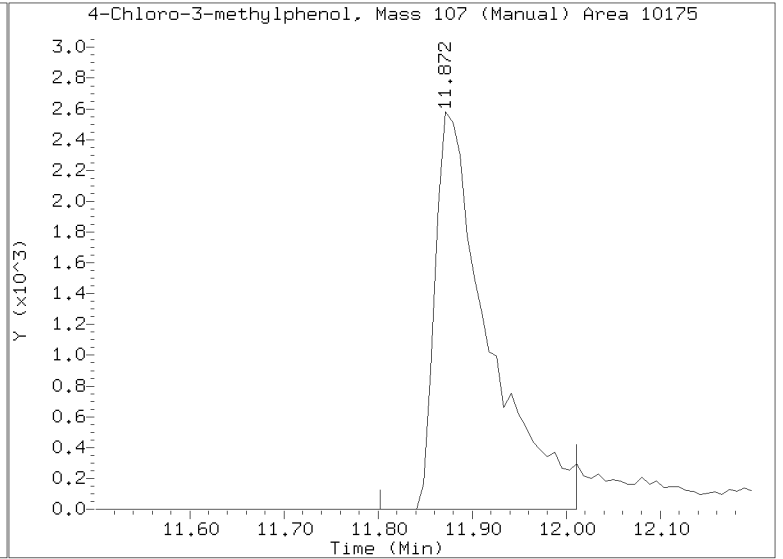
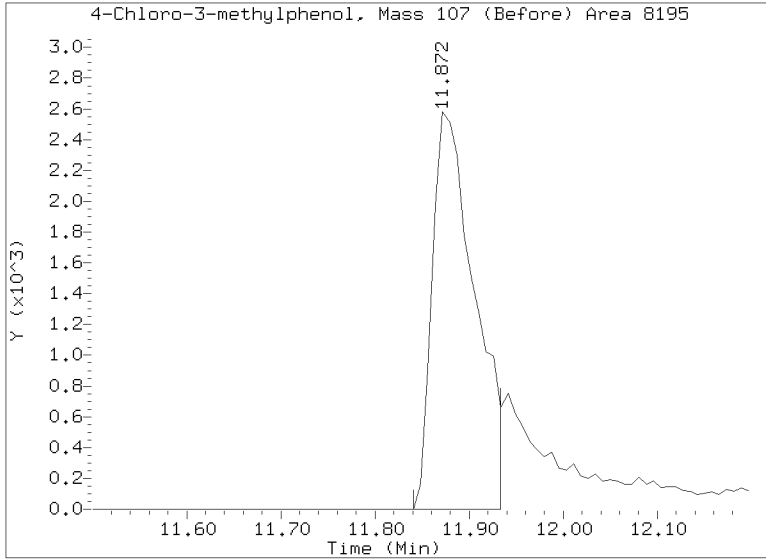
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Injection Date: 01-MAR-2023 23:52  
Lab ID:SLB0374-LCV3 Client ID:  
Report Date: 03/14/2023 08:52



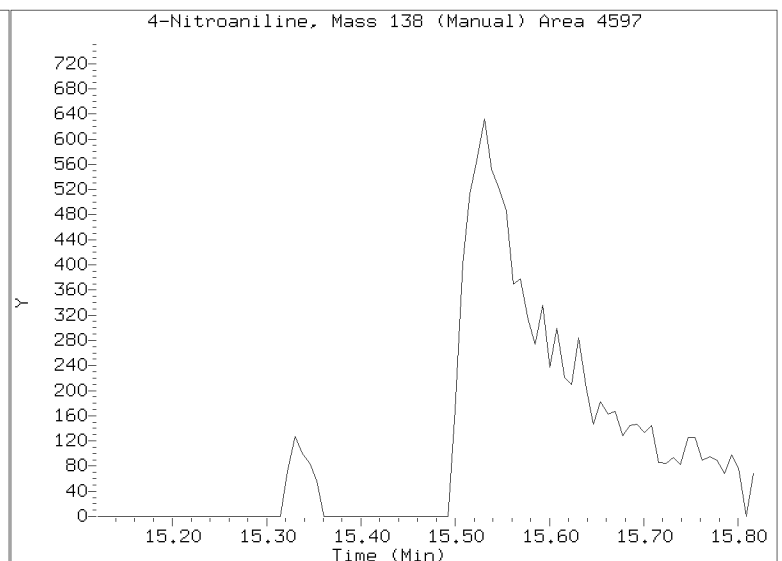
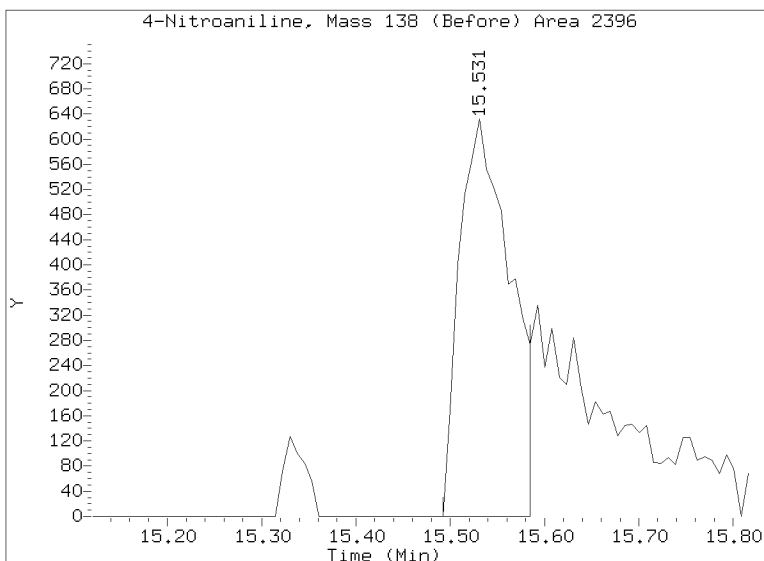
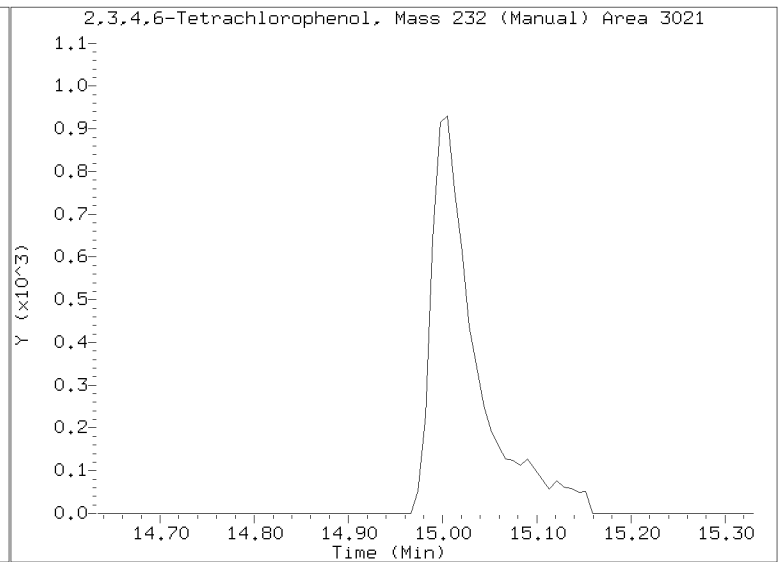
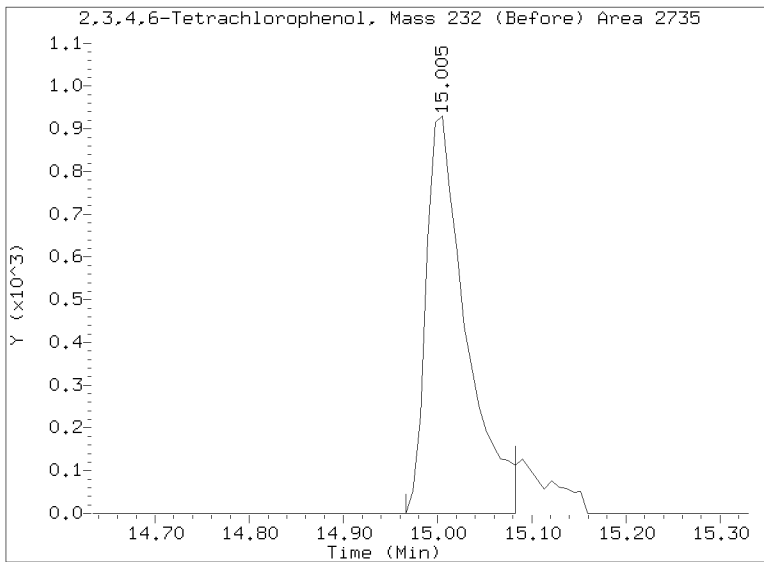
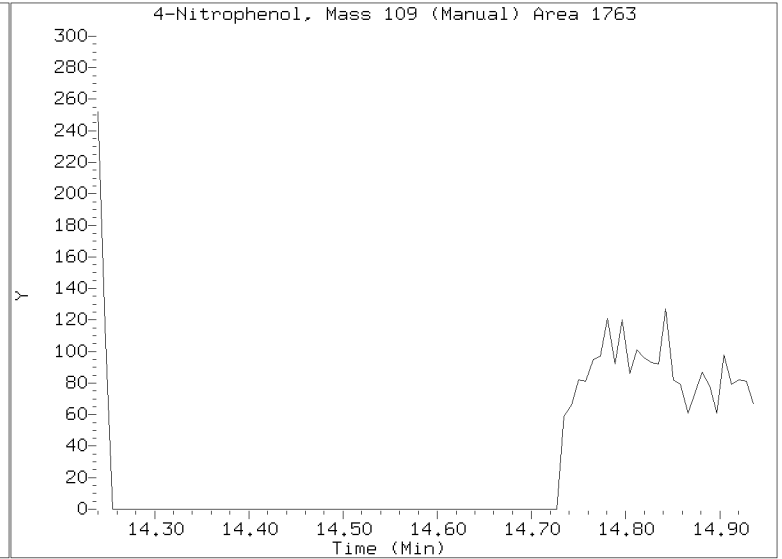
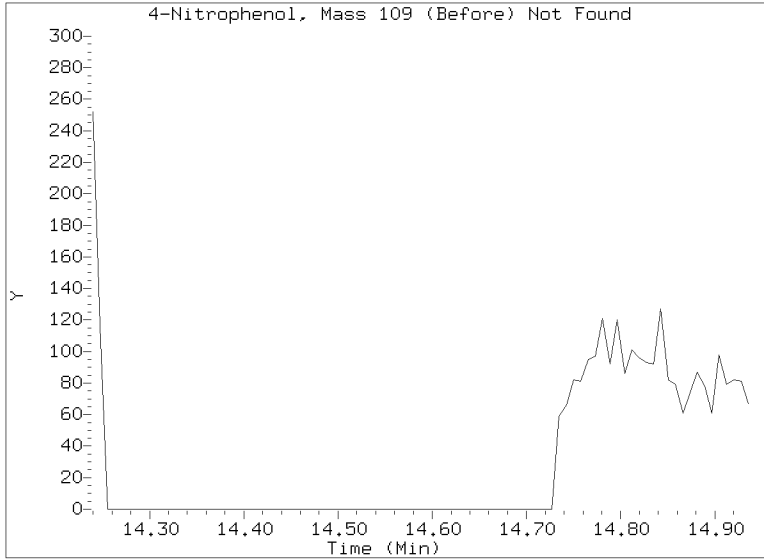
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Injection Date: 01-MAR-2023 23:52  
Lab ID:SLB0374-LCV3 Client ID:  
Report Date: 03/14/2023 08:52



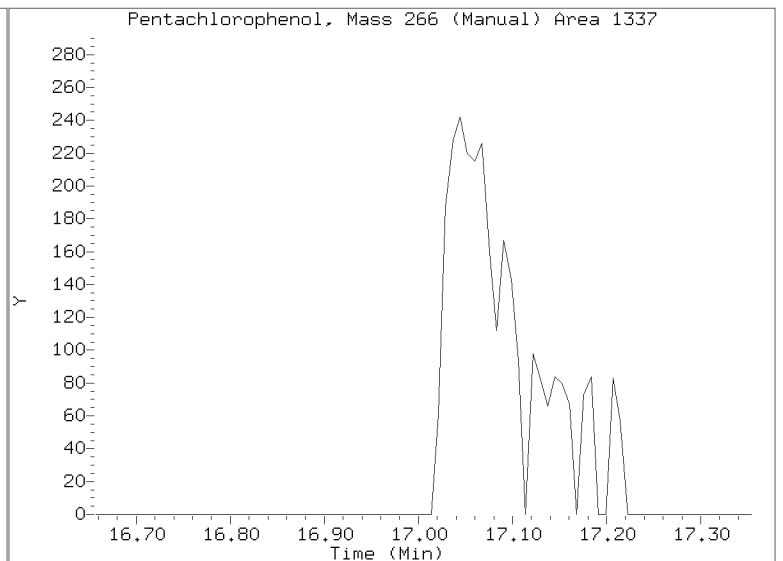
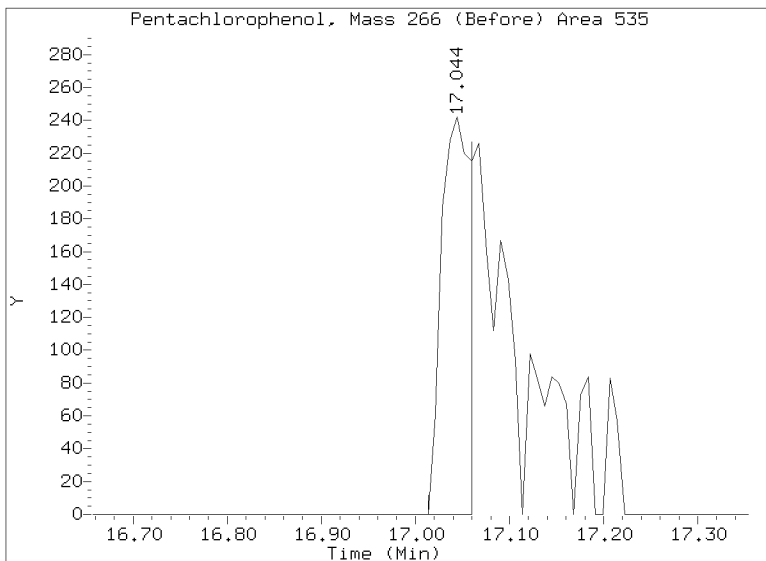
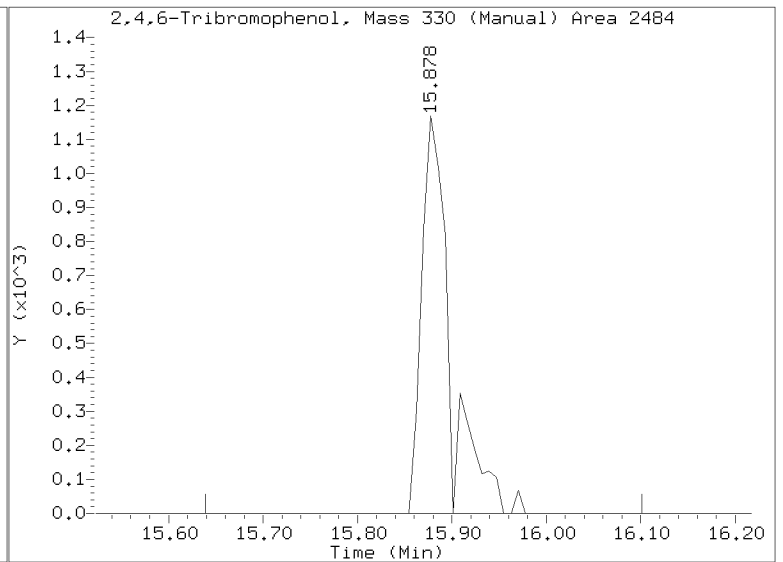
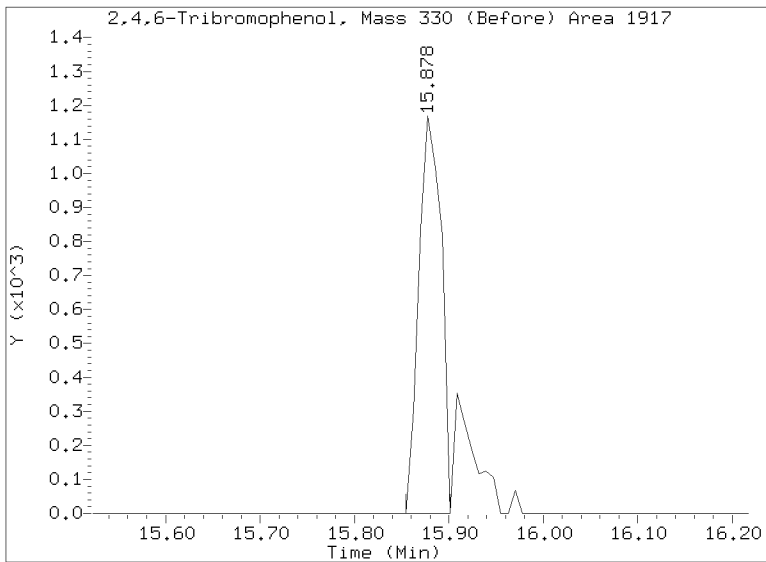
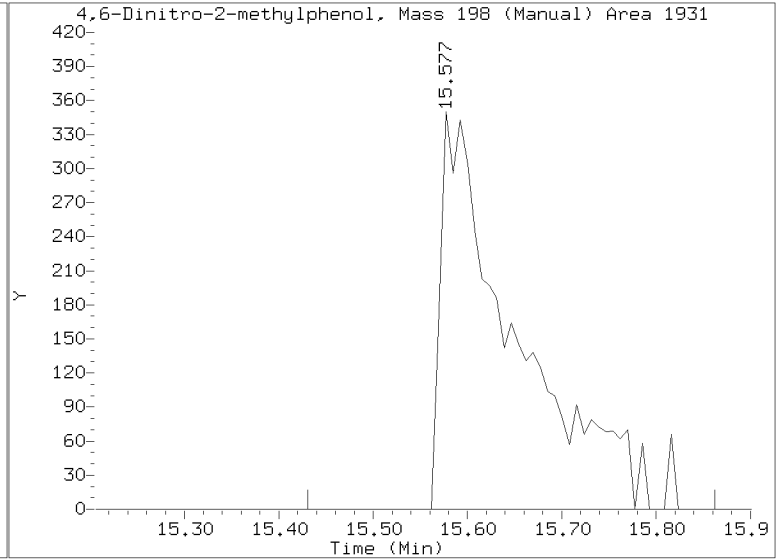
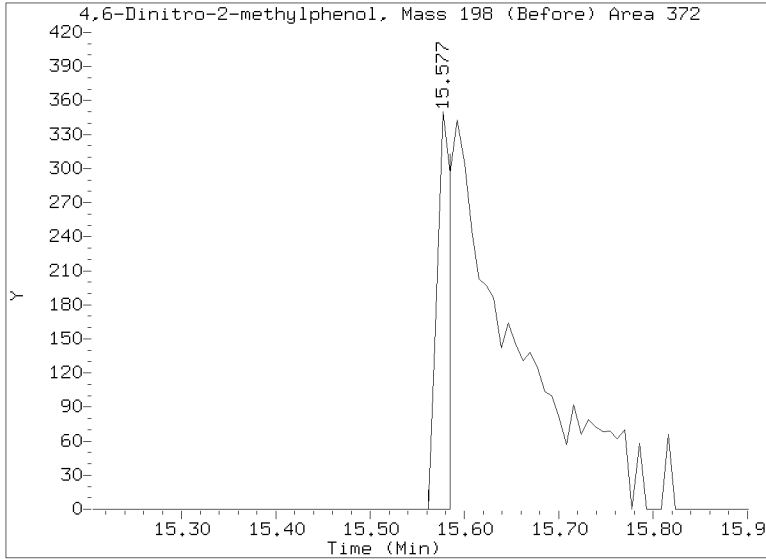
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Lab ID: SLB0374-LCV3 Client ID:  
Report Date: 03/14/2023 08:52



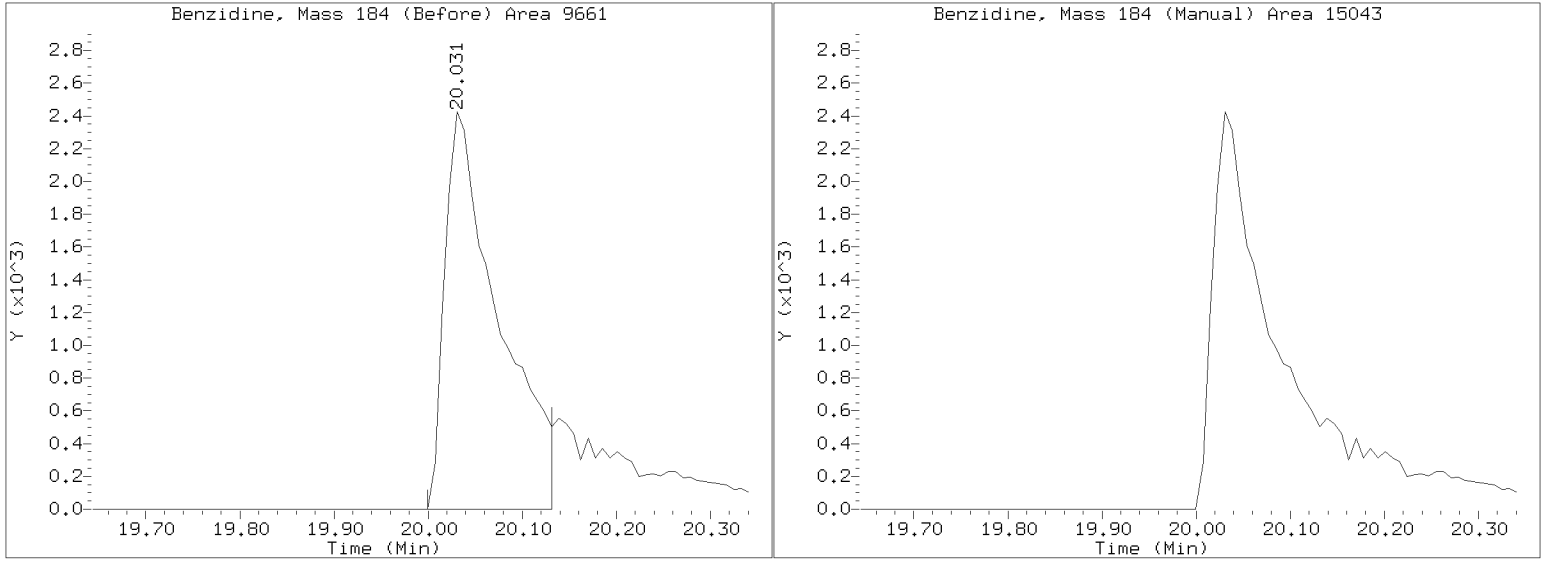
# Quant Ion Manual Peak Adjustment Report

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Injection Date: 01-MAR-2023 23:52  
Lab ID:SLB0374-LCV3 Client ID:  
Report Date: 03/14/2023 08:52



# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022838.D  
Injection Date: 01-MAR-2023 23:52  
Lab ID:SLB0374-LCV3 Client ID:  
Report Date: 03/14/2023 08:52





**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-LCV4

**Sequence:** SLB0374

**Standard ID:** K011106

| ANALYTE                      | EXPECTED<br>(ug/mL) | FOUND<br>(ug/mL) | % DRIFT | QC LIMIT |
|------------------------------|---------------------|------------------|---------|----------|
| Phenol                       | 0.50000             | 0.5              | -1.5    | 50.00    |
| bis(2-chloroethyl) ether     | 0.50000             | 0.5              | 1.8     | 50.00    |
| 2-Chlorophenol               | 0.50000             | 0.5              | -5.5    | 50.00    |
| 1,3-Dichlorobenzene          | 0.50000             | 0.5              | 3.9     | 50.00    |
| 1,4-Dichlorobenzene          | 0.50000             | 0.5              | 0.2     | 50.00    |
| 1,2-Dichlorobenzene          | 0.50000             | 0.5              | 6.0     | 50.00    |
| Benzyl Alcohol               | 0.50000             | 0.3              | -33.4   | 50.00    |
| 2,2'-Oxybis(1-chloropropane) | 0.50000             | 0.5              | 4.5     | 50.00    |
| 2-Methylphenol               | 0.50000             | 0.6              | 18.3    | 50.00    |
| Hexachloroethane             | 0.50000             | 0.4              | -20.8   | 50.00    |
| N-Nitroso-di-n-Propylamine   | 0.50000             | 0.6              | 11.9    | 50.00    |
| 4-Methylphenol               | 0.50000             | 0.4              | -19.1   | 50.00    |
| Nitrobenzene                 | 0.50000             | 0.5              | 7.1     | 50.00    |
| Isophorone                   | 0.50000             | 0.4              | -11.4   | 50.00    |
| 2-Nitrophenol                | 0.50000             | 0.4              | -23.0   | 50.00    |
| 2,4-Dimethylphenol           | 1.0000              | 1.0              | 2.5     | 50.00    |
| Bis(2-Chloroethoxy)methane   | 0.50000             | 0.5              | 6.0     | 50.00    |
| 2,4-Dichlorophenol           | 1.0000              | 0.9              | -12.6   | 50.00    |
| 1,2,4-Trichlorobenzene       | 0.50000             | 0.5              | -0.7    | 50.00    |
| Naphthalene                  | 0.50000             | 0.5              | 5.2     | 50.00    |
| Benzoic acid                 | 2.0000              | 0.9              | -54.5 * | 50.00    |
| 4-Chloroaniline              | 1.0000              | 0.9              | -10.3   | 50.00    |
| Hexachlorobutadiene          | 0.50000             | 0.5              | -7.7    | 50.00    |
| 4-Chloro-3-Methylphenol      | 1.0000              | 1.0              | -0.4    | 50.00    |
| 2-Methylnaphthalene          | 0.50000             | 0.5              | 2.8     | 50.00    |
| Hexachlorocyclopentadiene    | 1.0000              | 0.01             | -98.9 * | 50.00    |
| 2,4,6-Trichlorophenol        | 1.0000              | 0.9              | -11.0   | 50.00    |
| 2,4,5-Trichlorophenol        | 1.0000              | 0.8              | -17.7   | 50.00    |
| 2-Chloronaphthalene          | 0.50000             | 0.5              | 2.4     | 50.00    |



**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-LCV4

**Sequence:** SLB0374

**Standard ID:** K011106

|                            |         |     |         |       |
|----------------------------|---------|-----|---------|-------|
| 2-Nitroaniline             | 1.0000  | 1.1 | 7.0     | 50.00 |
| Acenaphthylene             | 0.50000 | 0.6 | 12.3    | 50.00 |
| Dimethylphthalate          | 0.50000 | 0.6 | 10.6    | 50.00 |
| 2,6-Dinitrotoluene         | 1.0000  | 1.0 | 0.4     | 50.00 |
| Acenaphthene               | 0.50000 | 0.5 | 4.0     | 50.00 |
| 3-Nitroaniline             | 1.0000  | 0.8 | -23.7   | 50.00 |
| 2,4-Dinitrophenol          | 2.0000  | 0.3 | -83.4 * | 50.00 |
| Dibenzofuran               | 0.50000 | 0.5 | 0.5     | 50.00 |
| 4-Nitrophenol              | 1.0000  | 0.8 | -22.6   | 50.00 |
| 2,4-Dinitrotoluene         | 1.0000  | 0.9 | -12.2   | 50.00 |
| Fluorene                   | 0.50000 | 0.5 | 4.1     | 50.00 |
| 4-Chlorophenylphenyl ether | 0.50000 | 0.5 | -1.1    | 50.00 |
| Diethyl phthalate          | 0.50000 | 0.6 | 10.1    | 50.00 |
| 4-Nitroaniline             | 1.0000  | 0.7 | -28.4   | 50.00 |
| 4,6-Dinitro-2-methylphenol | 2.0000  | 0.8 | -62.0 * | 50.00 |
| N-Nitrosodiphenylamine     | 0.50000 | 0.6 | 12.9    | 50.00 |
| 4-Bromophenyl phenyl ether | 0.50000 | 0.5 | 1.4     | 50.00 |
| Hexachlorobenzene          | 0.50000 | 0.5 | 5.1     | 50.00 |
| Pentachlorophenol          | 1.0000  | 0.5 | -49.8   | 50.00 |
| Phenanthrene               | 0.50000 | 0.5 | 3.0     | 50.00 |
| Anthracene                 | 0.50000 | 0.5 | 6.3     | 50.00 |
| Carbazole                  | 0.50000 | 0.5 | -1.8    | 50.00 |
| Di-n-Butylphthalate        | 0.50000 | 0.5 | -0.9    | 50.00 |
| Fluoranthene               | 0.50000 | 0.5 | -6.4    | 50.00 |
| Pyrene                     | 0.50000 | 0.5 | -5.2    | 50.00 |
| Butylbenzylphthalate       | 0.50000 | 0.5 | 0.7     | 50.00 |
| Benzo(a)anthracene         | 0.50000 | 0.5 | 9.3     | 50.00 |
| 3,3'-Dichlorobenzidine     | 1.5000  | 1.9 | 26.4    | 50.00 |
| Chrysene                   | 0.50000 | 0.5 | 5.1     | 50.00 |
| bis(2-Ethylhexyl)phthalate | 0.50000 | 0.5 | -8.3    | 50.00 |
| Di-n-Octylphthalate        | 0.50000 | 0.5 | 0.8     | 50.00 |



**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-LCV4

**Sequence:** SLB0374

**Standard ID:** K011106

|                           |         |       |         |       |
|---------------------------|---------|-------|---------|-------|
| Benzofluoranthenes, Total | 1.0000  | 1.2   | 16.7    | 50.00 |
| Benzo(a)pyrene            | 0.50000 | 0.5   | 8.7     | 50.00 |
| Indeno(1,2,3-cd)pyrene    | 0.50000 | 0.3   | -49.6   | 50.00 |
| Dibenzo(a,h)anthracene    | 0.50000 | 0.3   | -43.7   | 50.00 |
| Benzo(g,h,i)perylene      | 0.50000 | 0.2   | -60.3 * | 50.00 |
| 1-Methylnaphthalene       | 0.50000 | 0.5   | 1.7     | 50.00 |
| 2-Fluorophenol            | 0.75000 | 0.681 | -9.1    | 50.00 |
| Phenol-d5                 | 0.75000 | 0.720 | -4.0    | 50.00 |
| 2-Chlorophenol-d4         | 0.75000 | 0.758 | 1.1     | 50.00 |
| 1,2-Dichlorobenzene-d4    | 0.50000 | 0.499 | -0.3    | 50.00 |
| Nitrobenzene-d5           | 0.50000 | 0.551 | 10.2    | 50.00 |
| 2-Fluorobiphenyl          | 0.50000 | 0.519 | 3.9     | 50.00 |
| 2,4,6-Tribromophenol      | 0.75000 | 0.542 | -27.7   | 50.00 |
| p-Terphenyl-d14           | 0.50000 | 0.466 | -6.9    | 50.00 |

\* Values outside of QC limits



Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022839.D

Date: 02-MAR-2023 00:28

Client ID:

Sample Info: SLB0374-LCV4

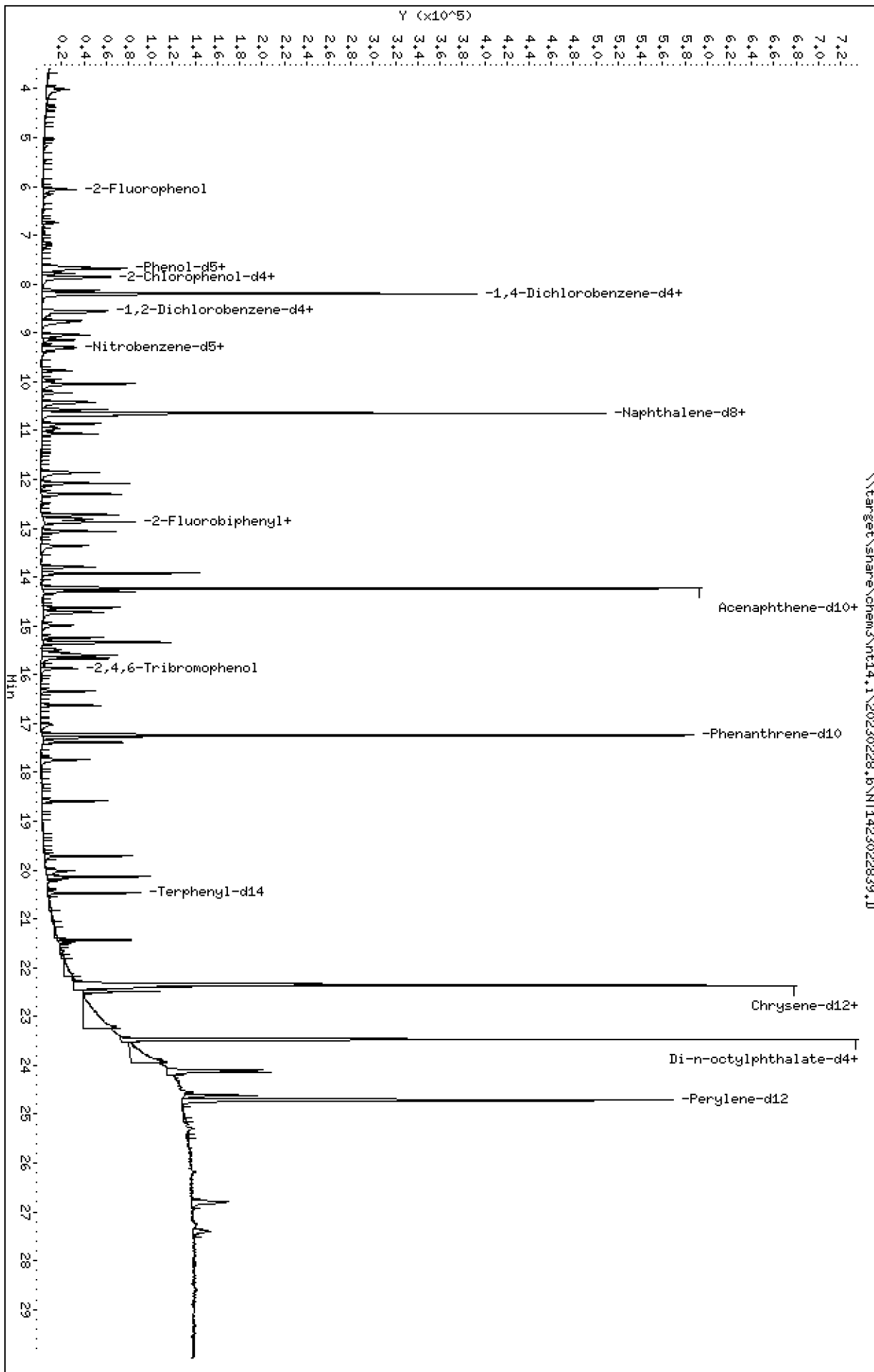
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

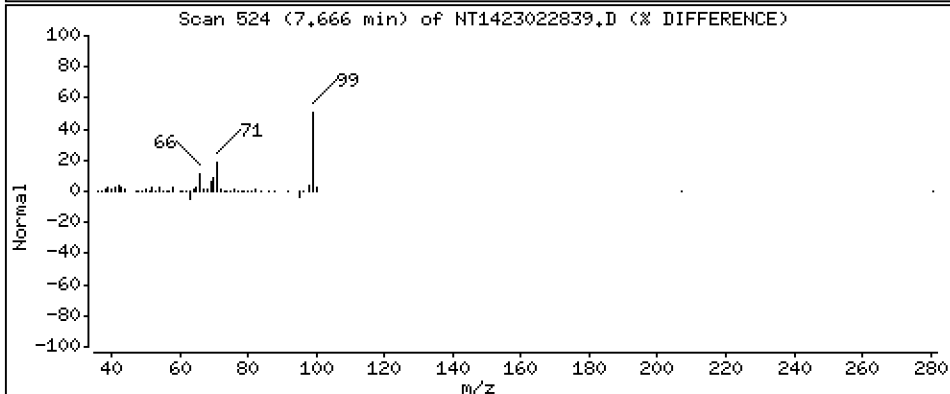
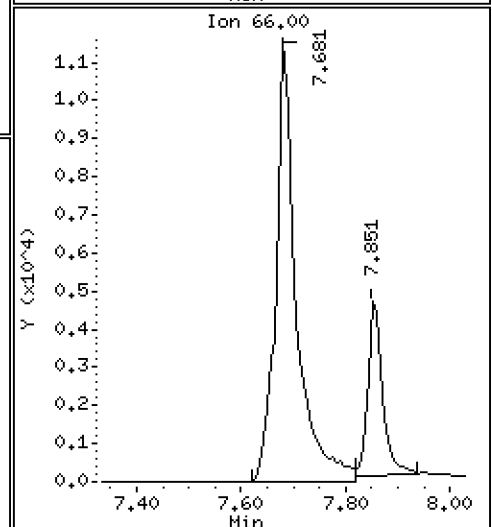
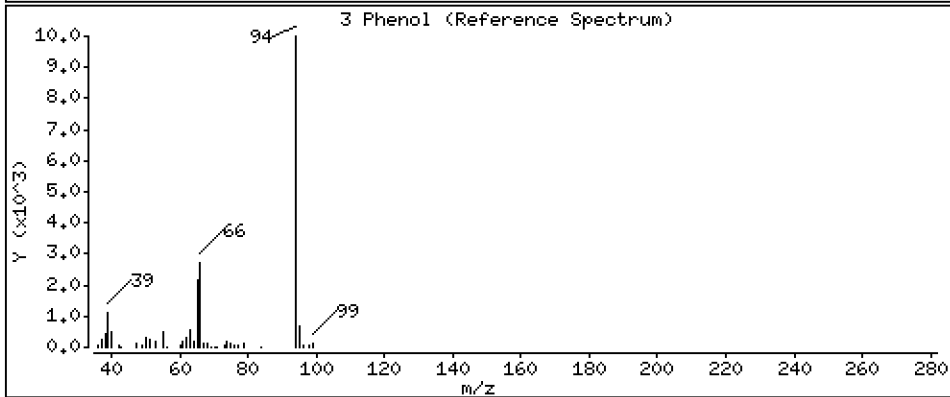
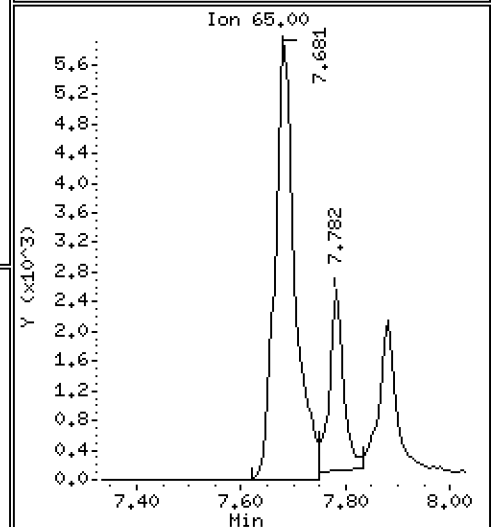
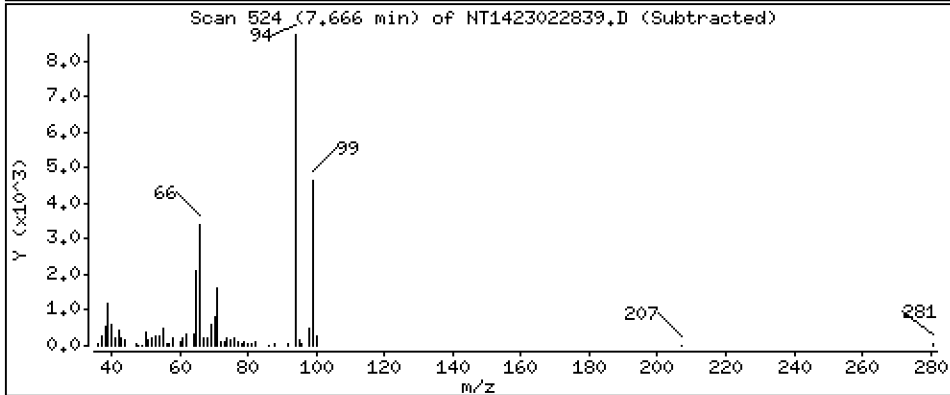
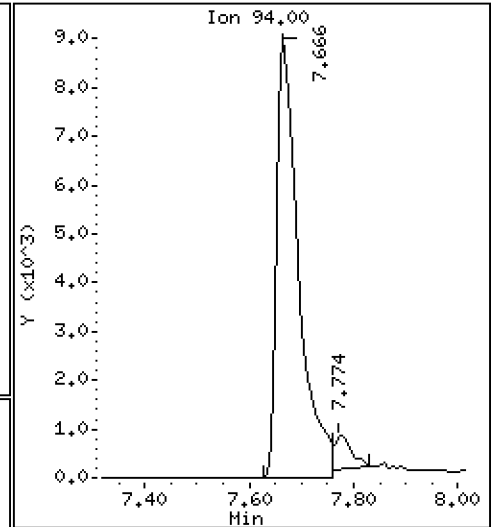
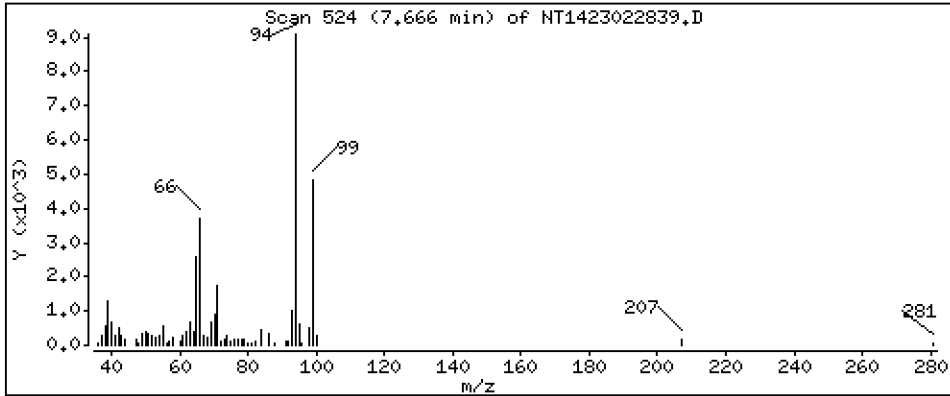
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,4925 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

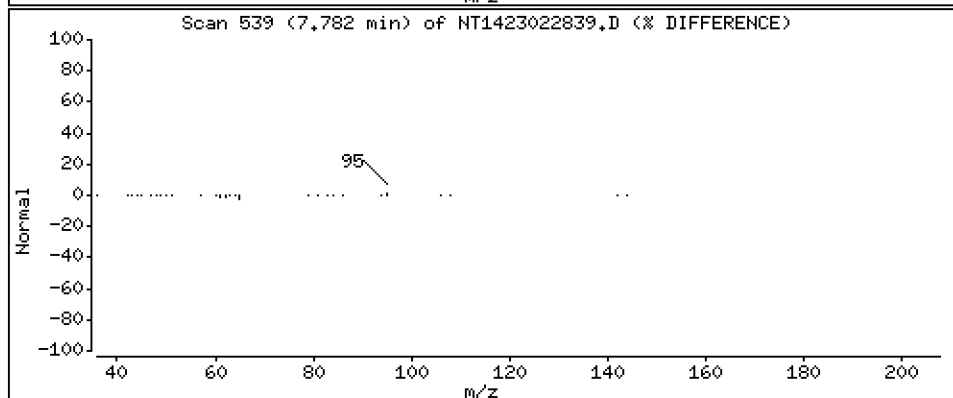
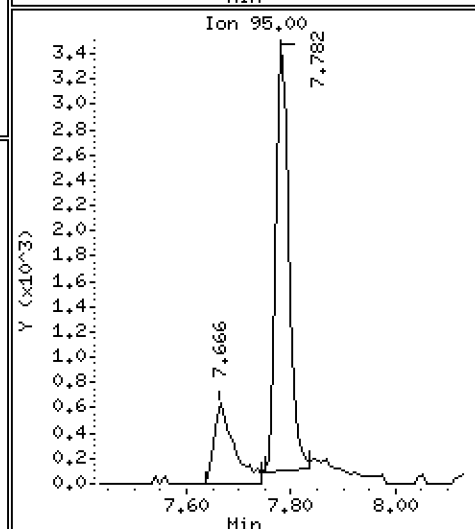
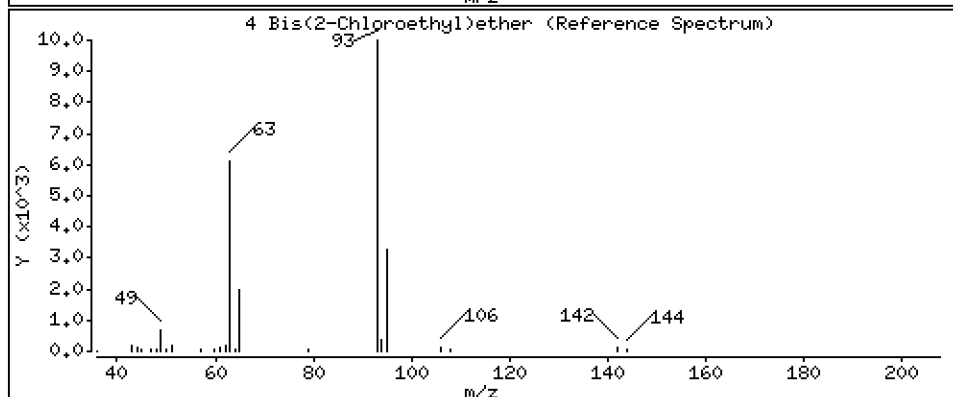
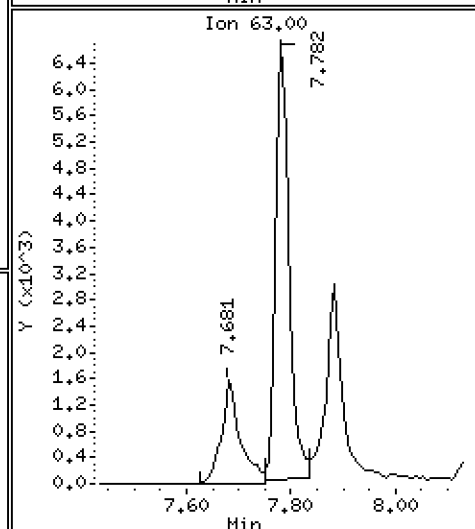
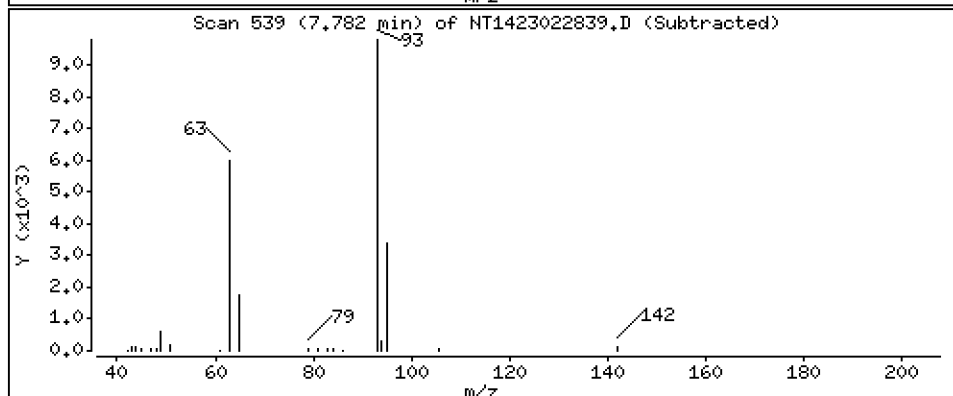
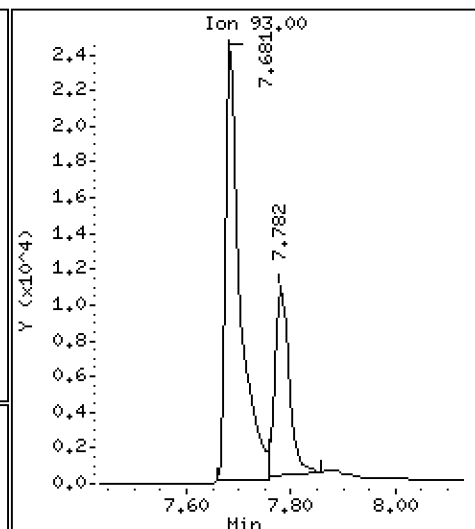
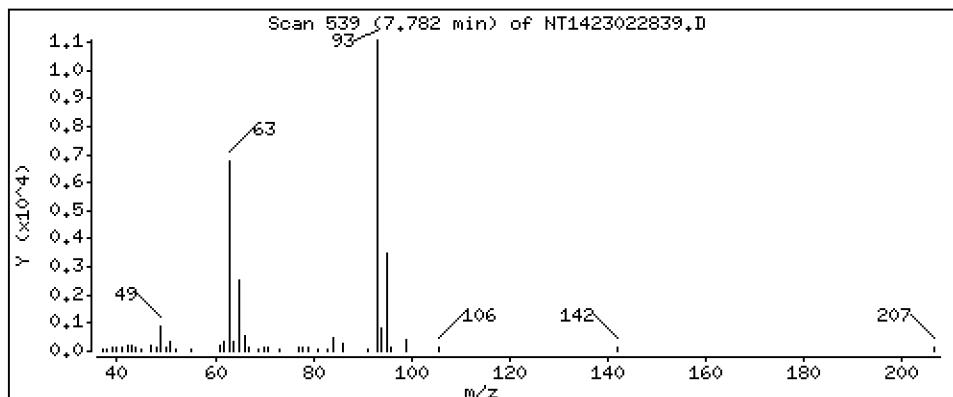
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,5090 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

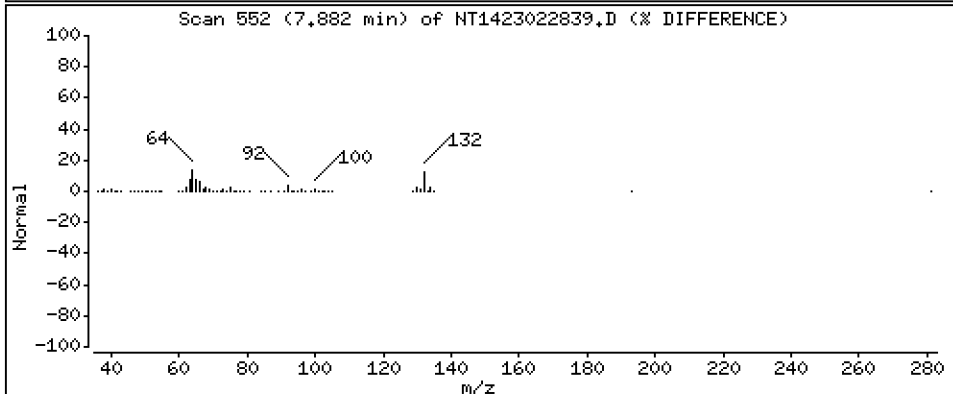
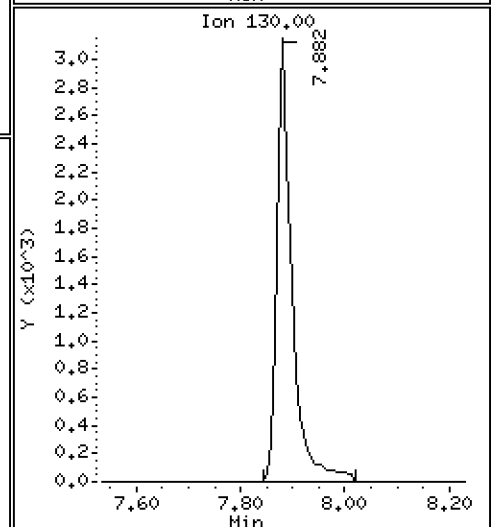
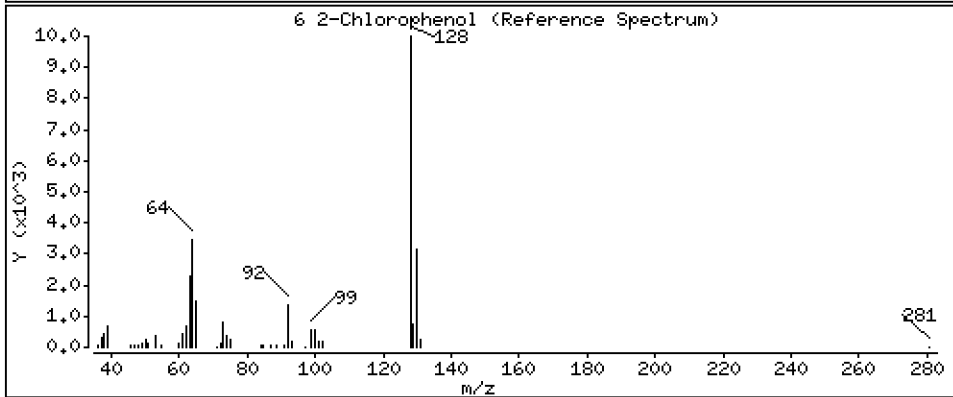
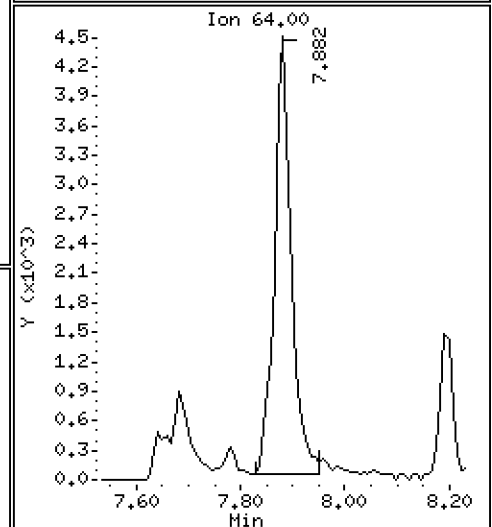
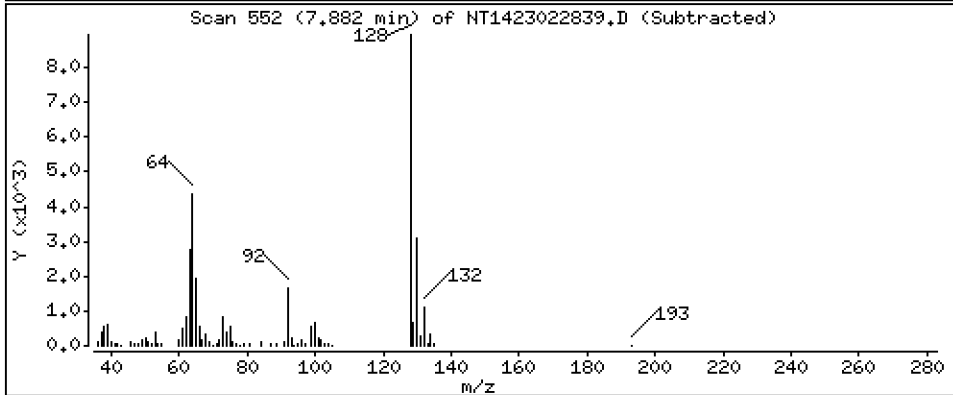
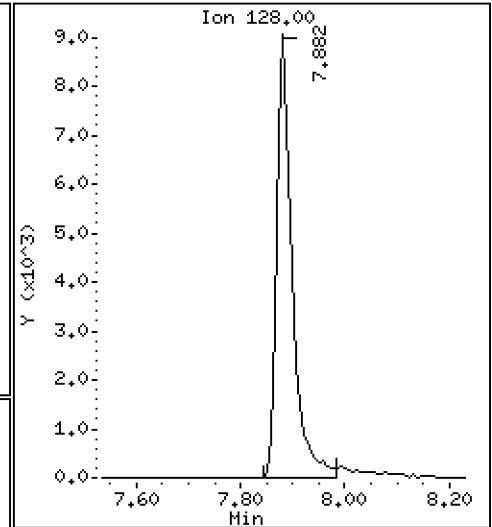
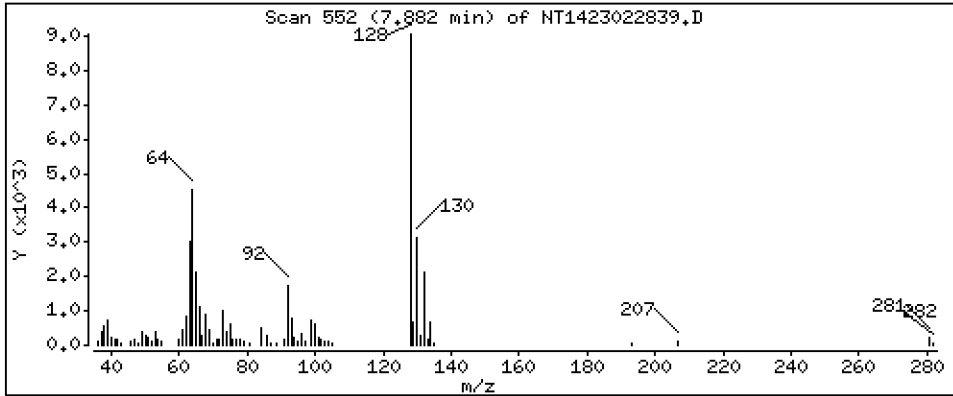
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,4724 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

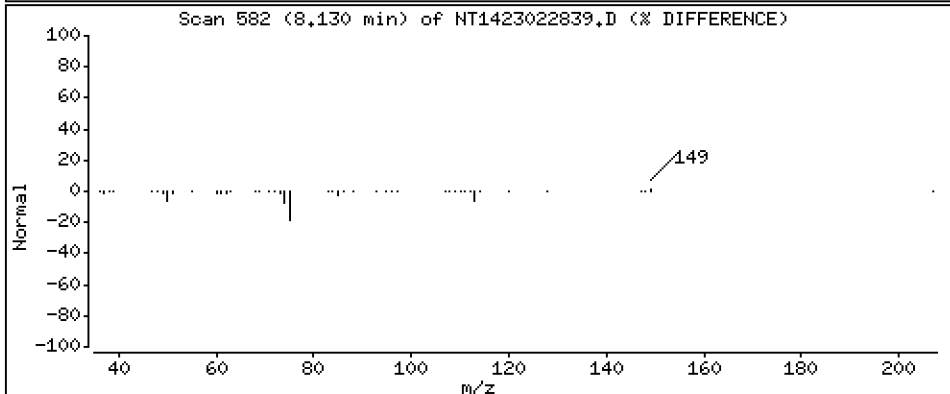
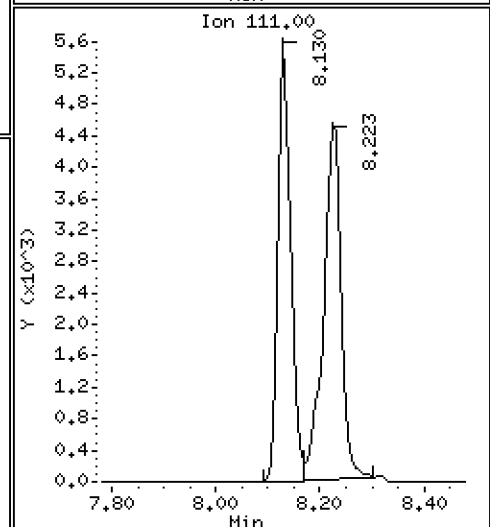
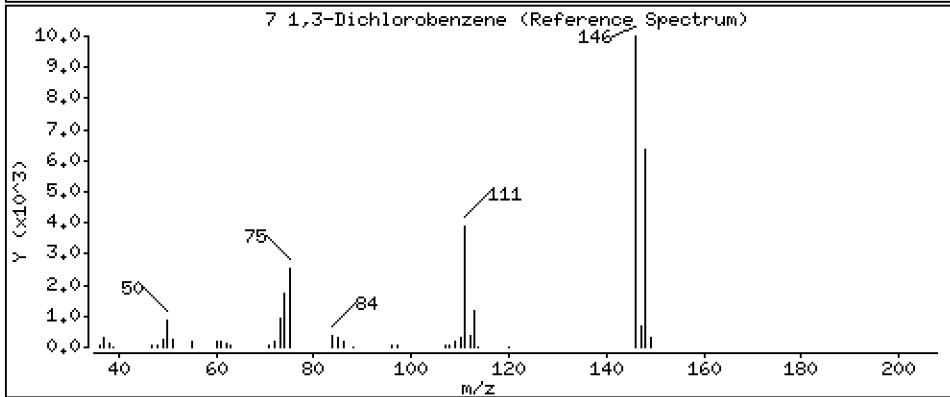
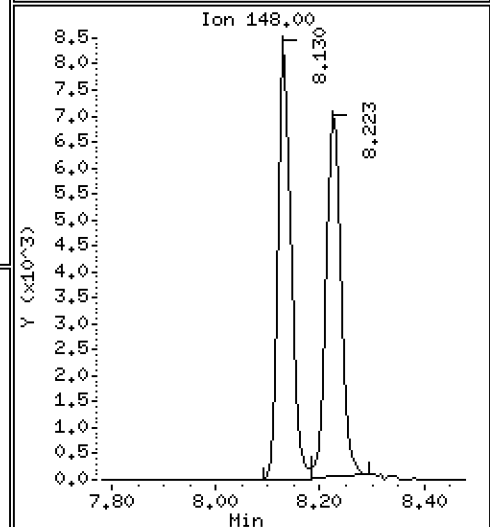
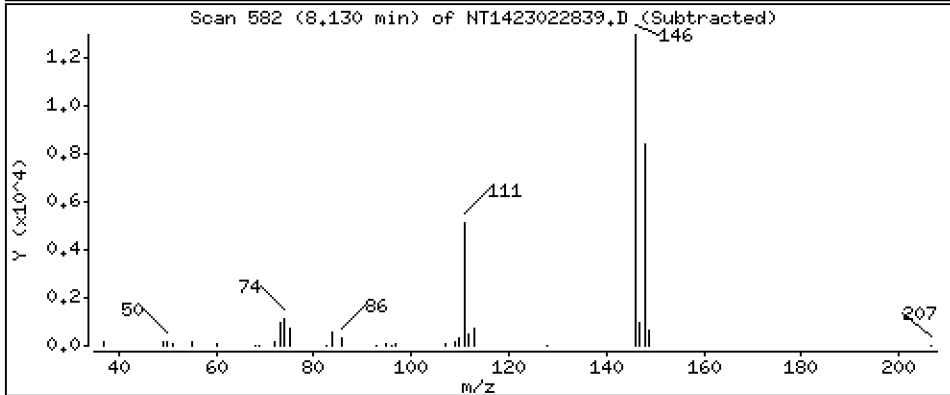
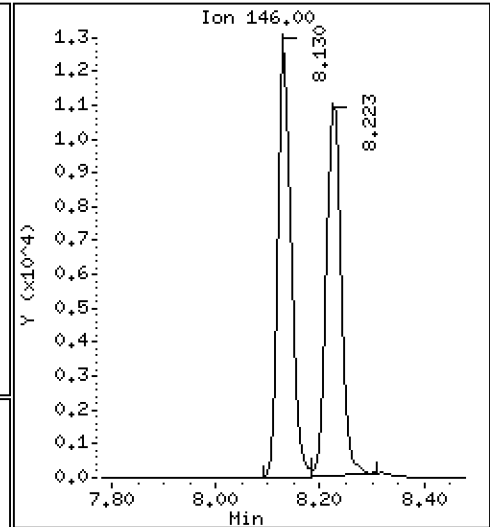
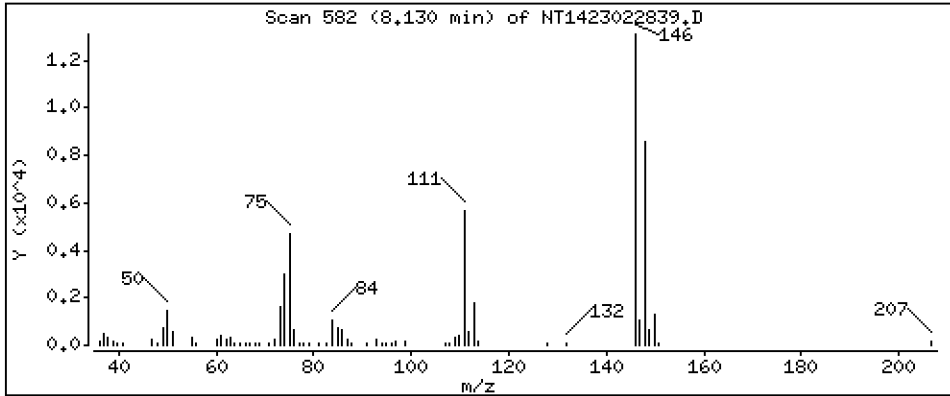
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,5195 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

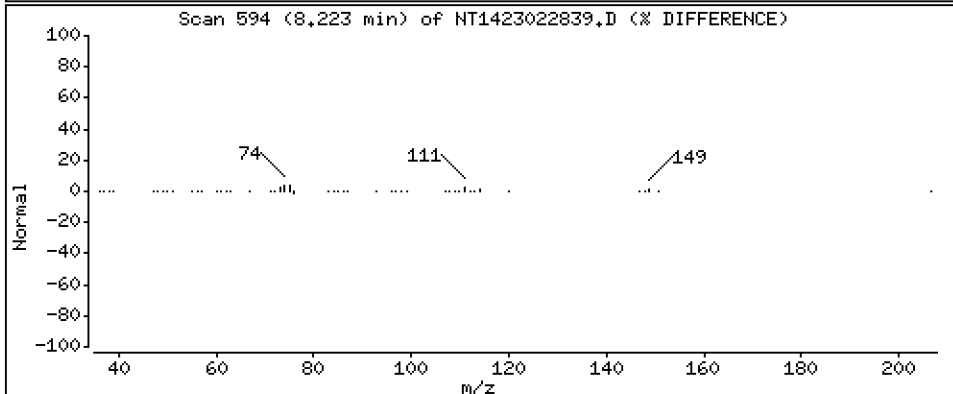
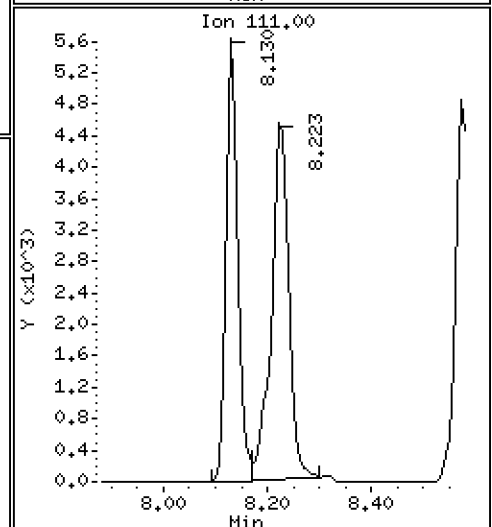
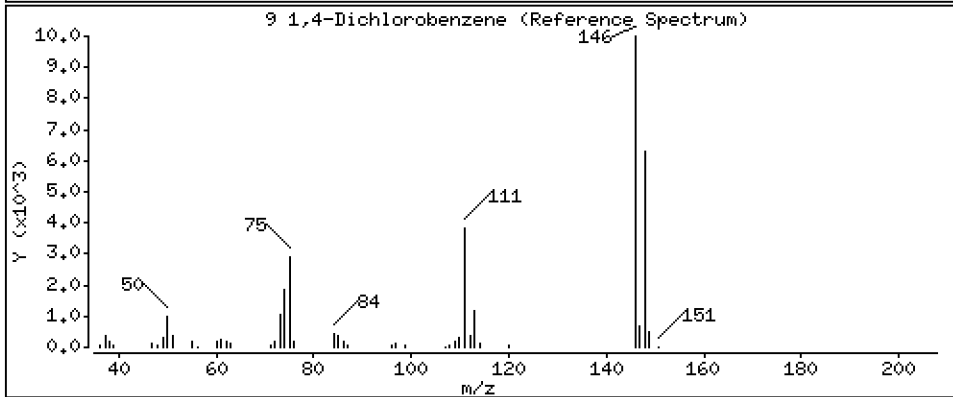
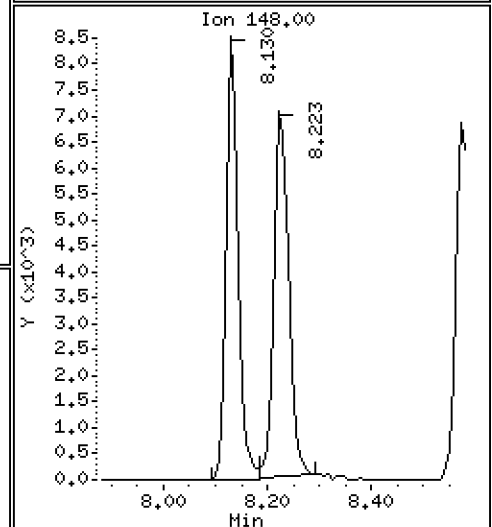
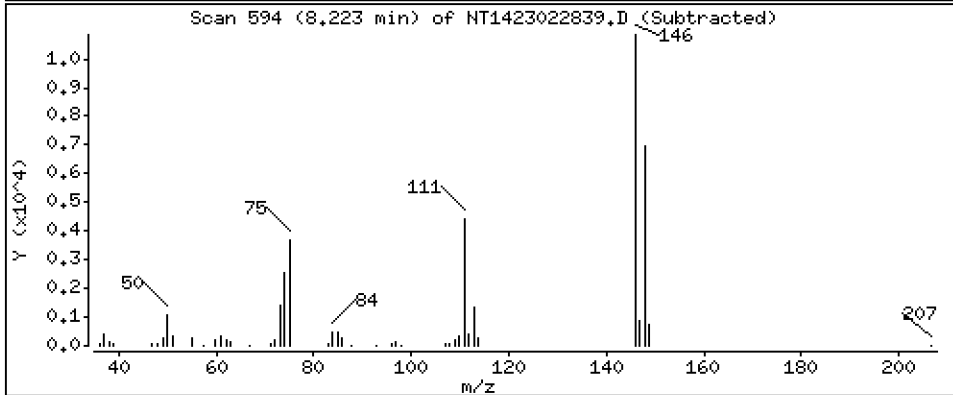
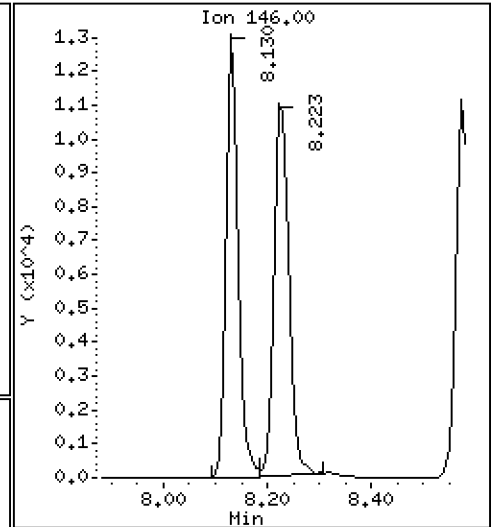
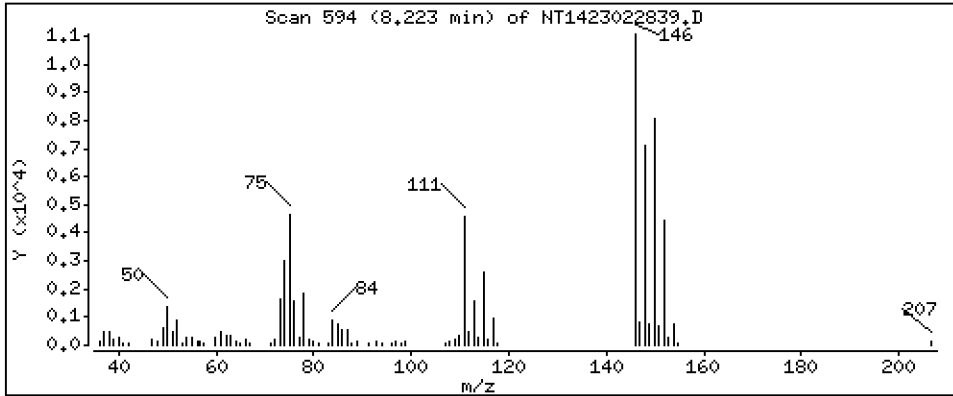
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,5009 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

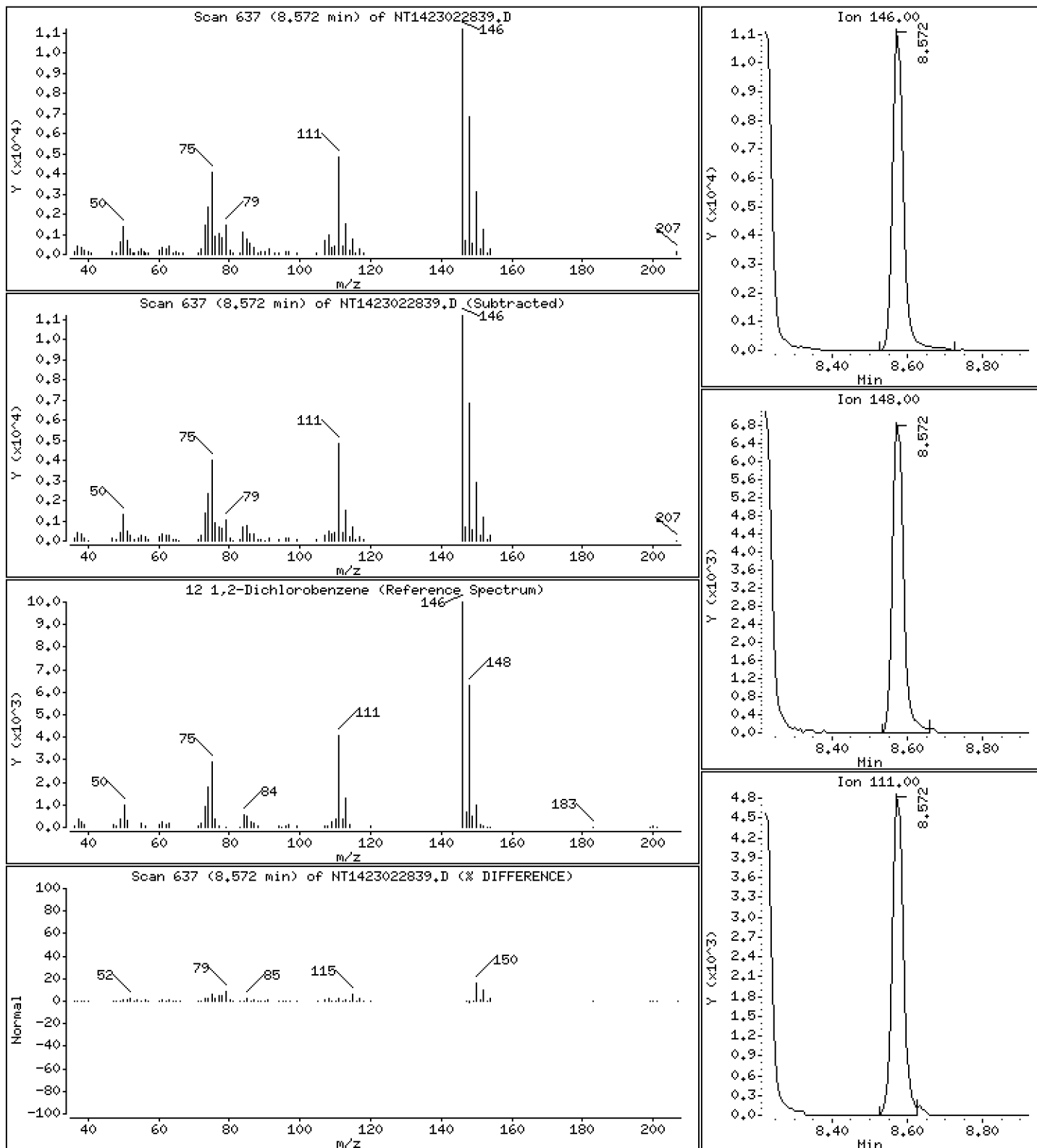
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,5300 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

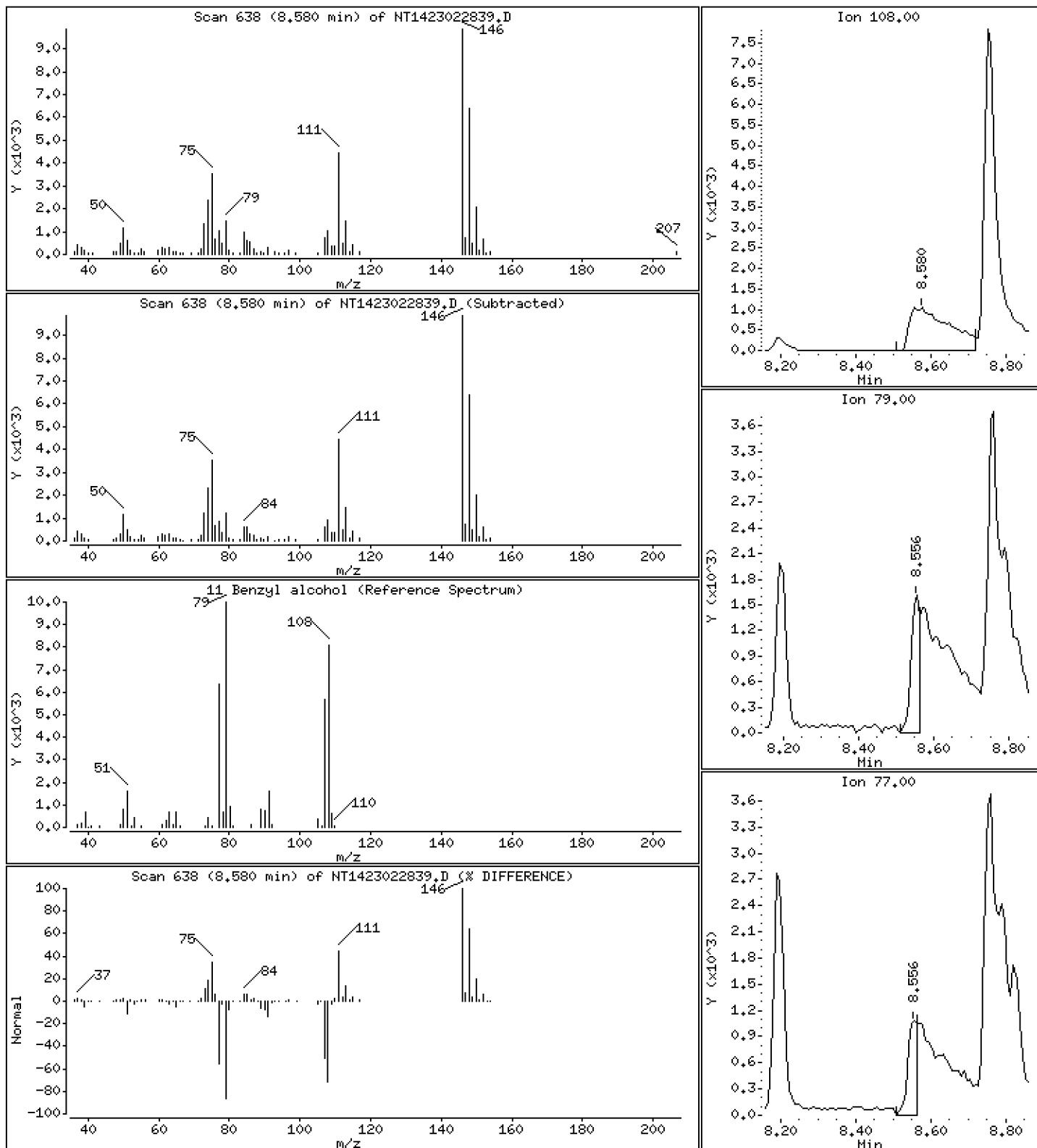
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.3329 ug/mL





Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

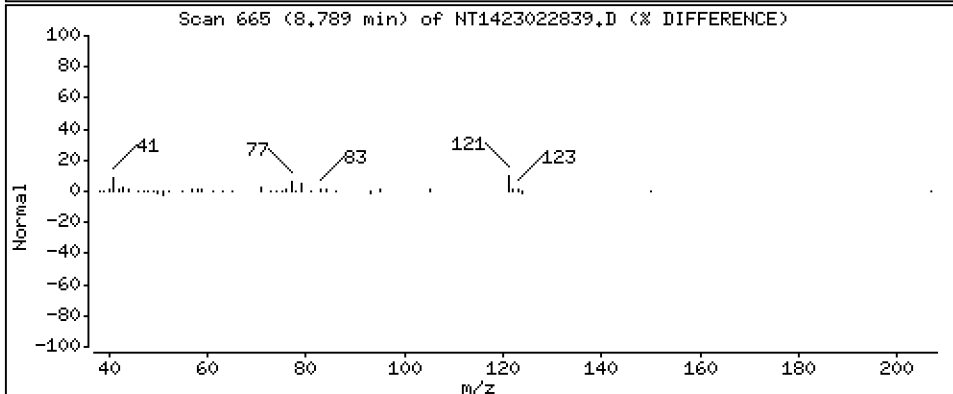
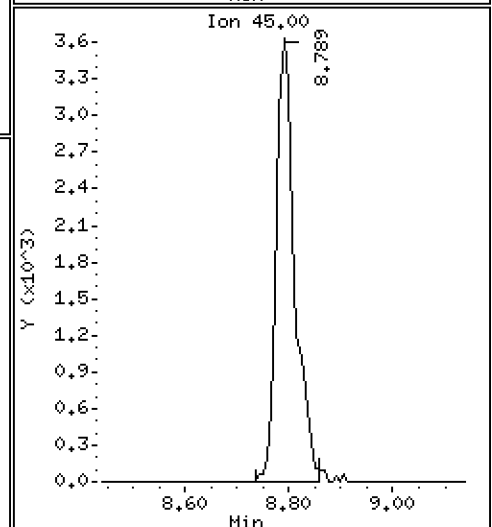
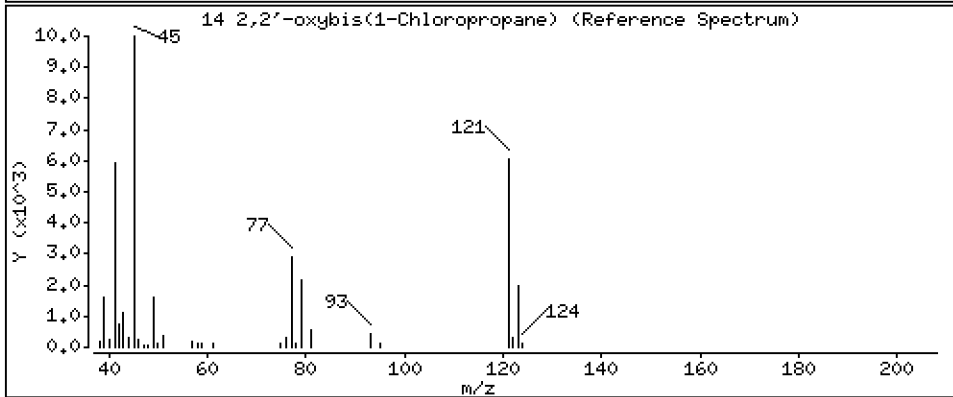
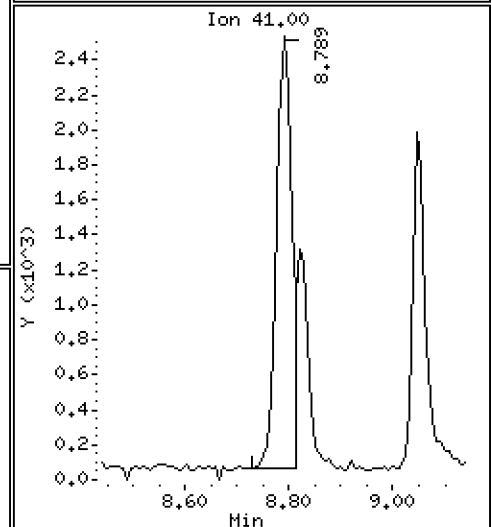
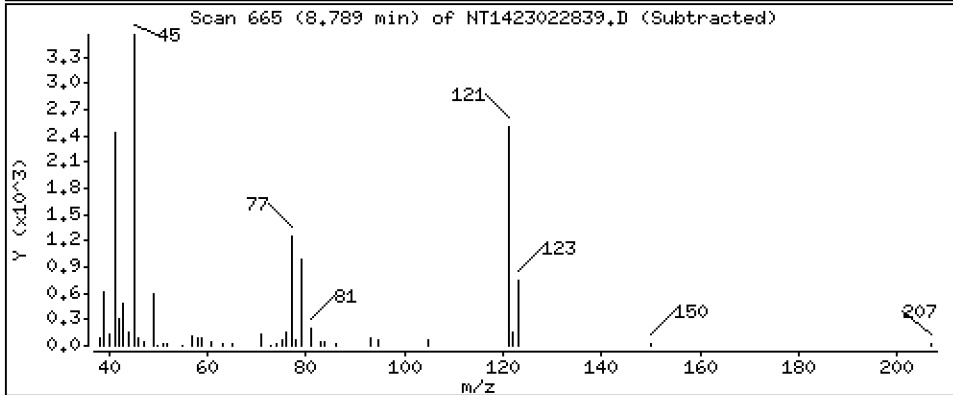
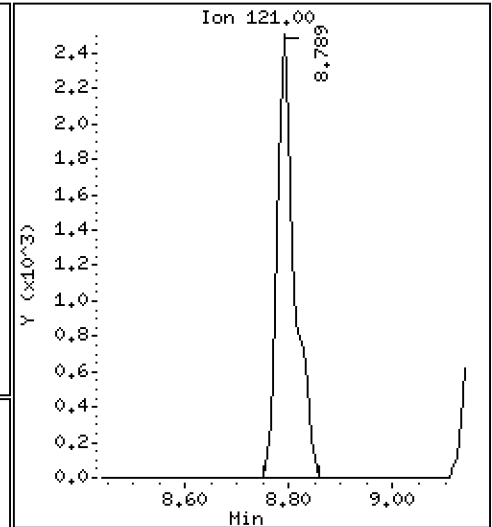
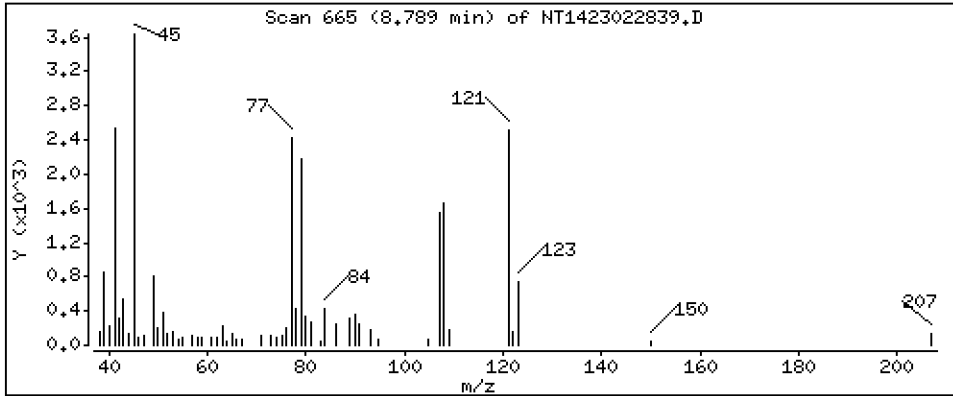
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 0,5223 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

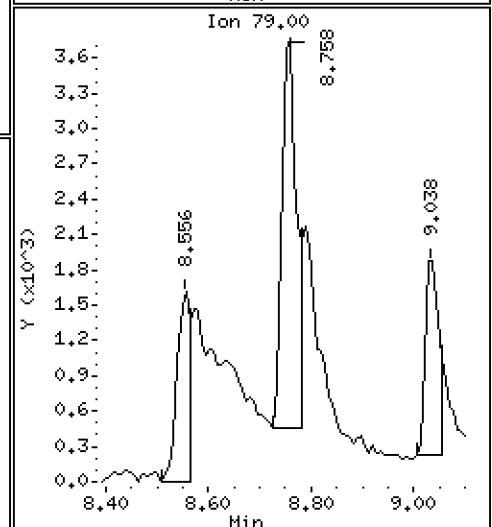
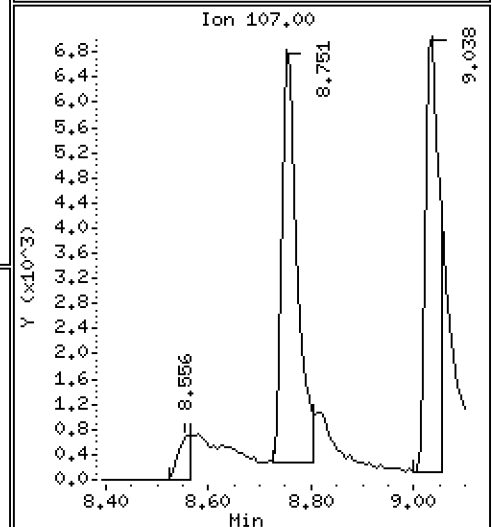
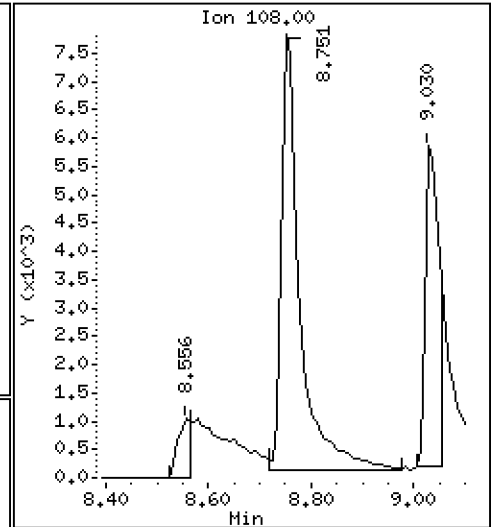
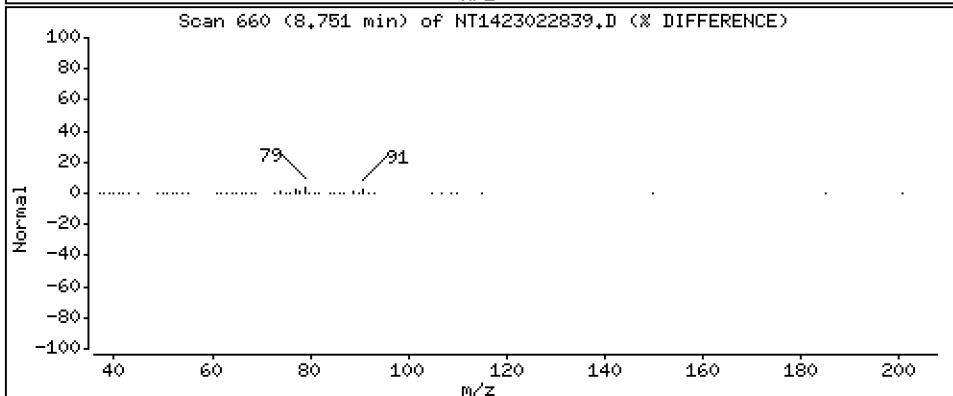
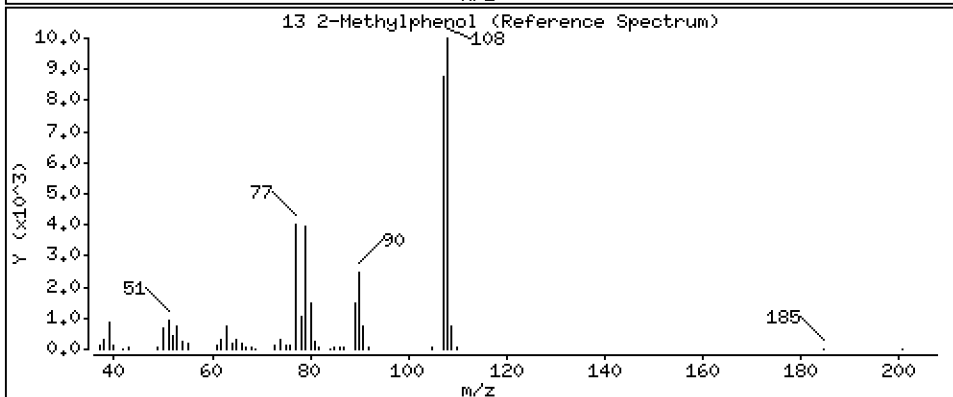
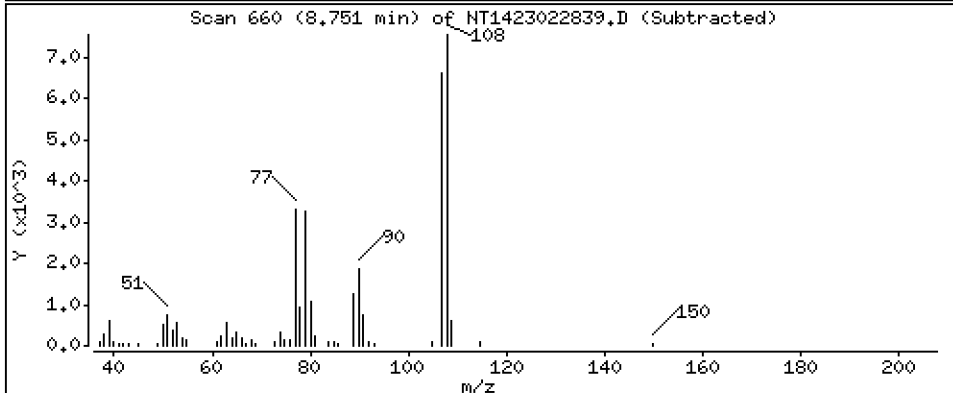
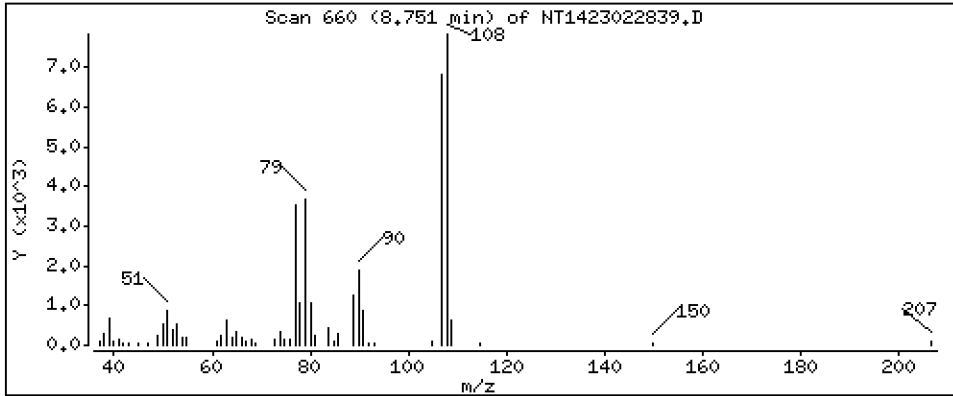
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

Concentration: 0.5917 ug/mL

13 2-Methylphenol



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

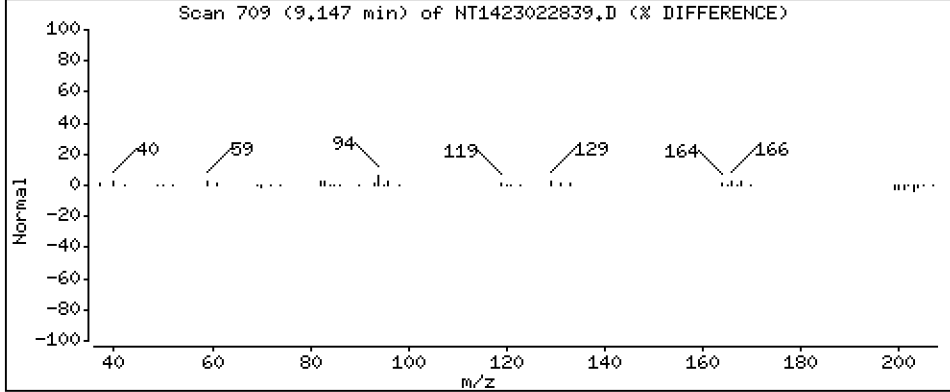
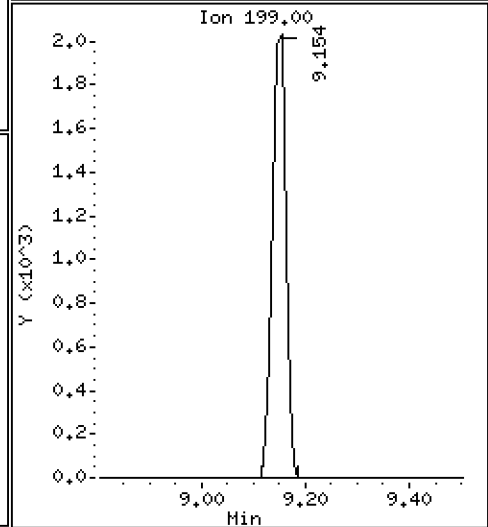
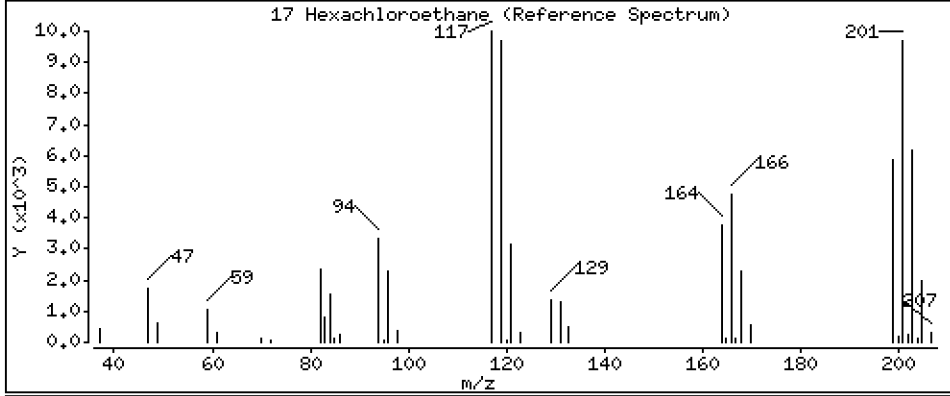
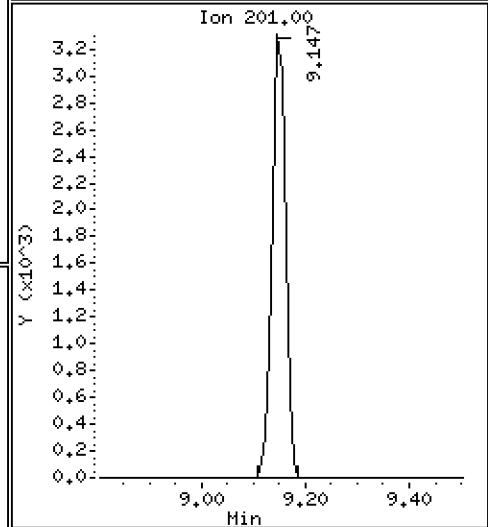
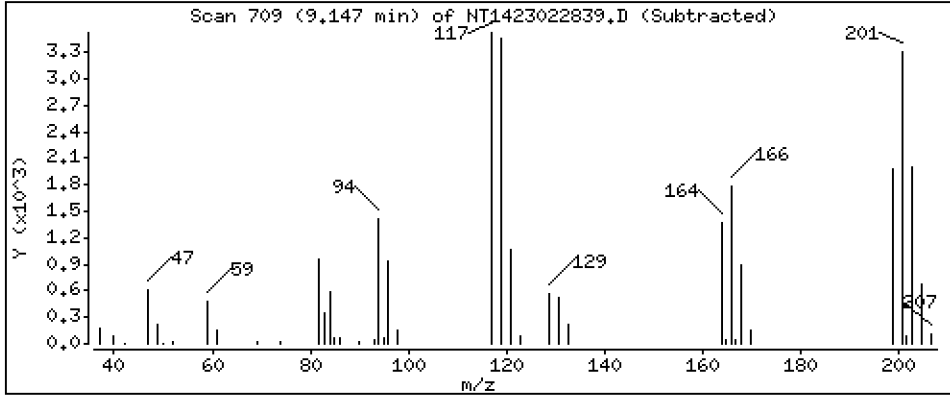
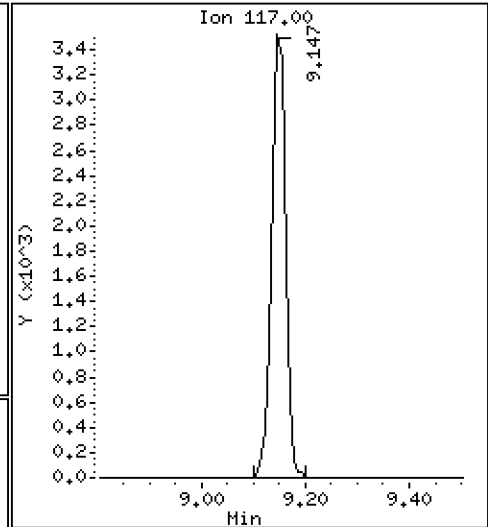
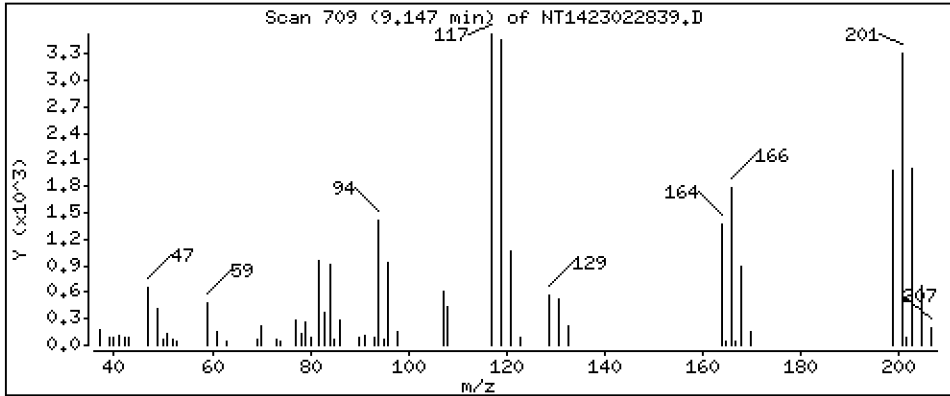
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 0.3959 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

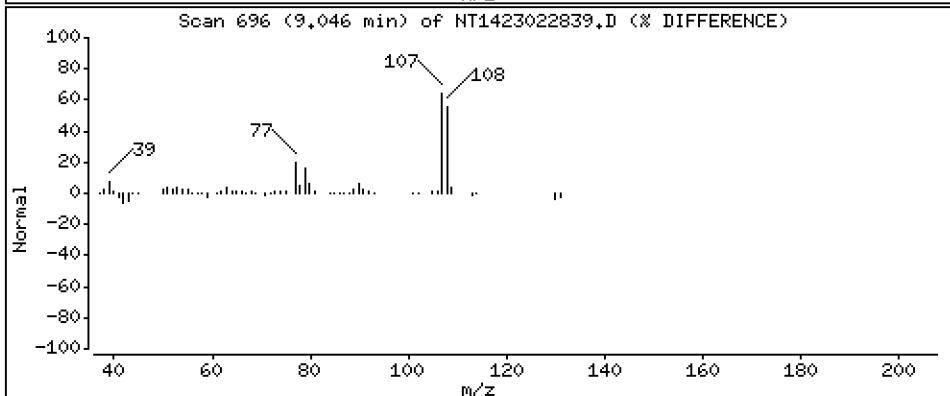
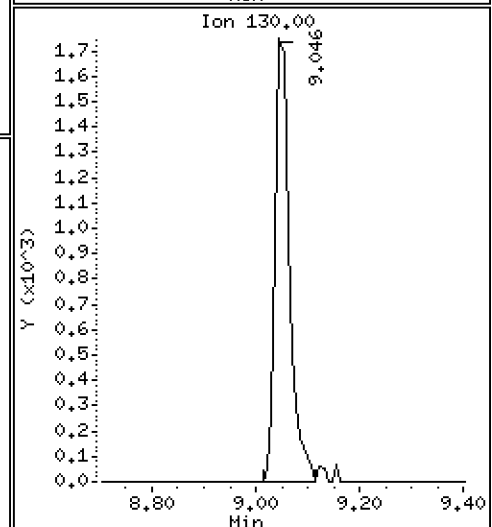
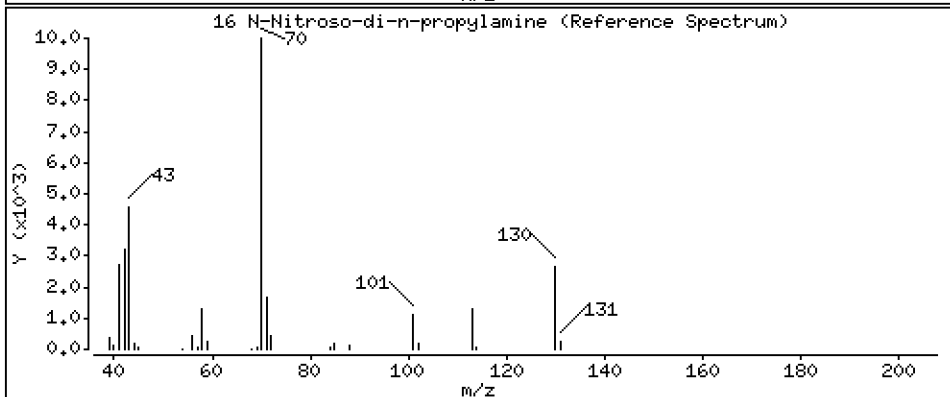
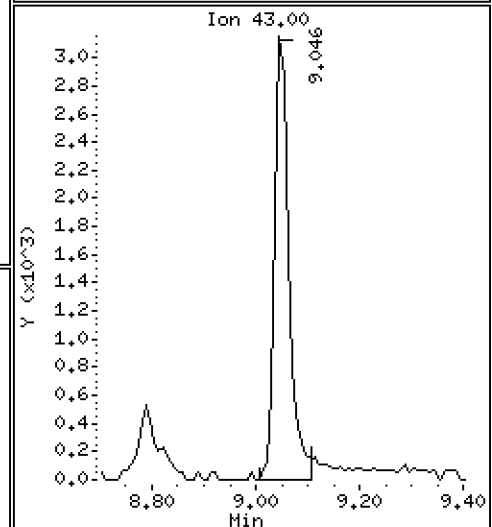
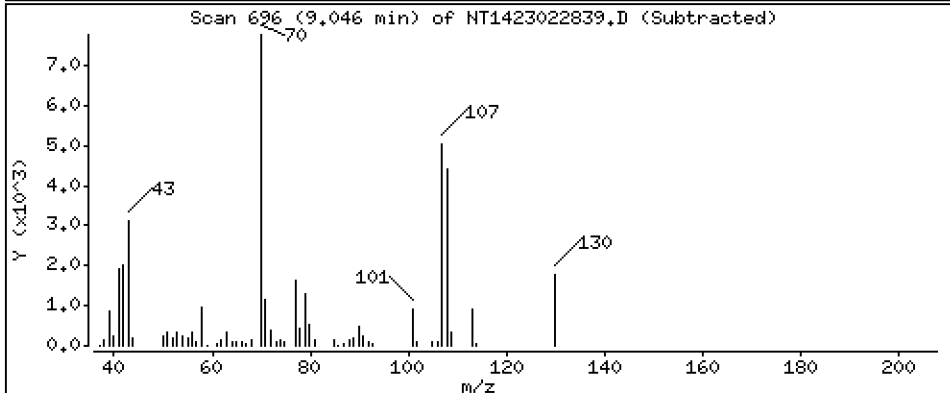
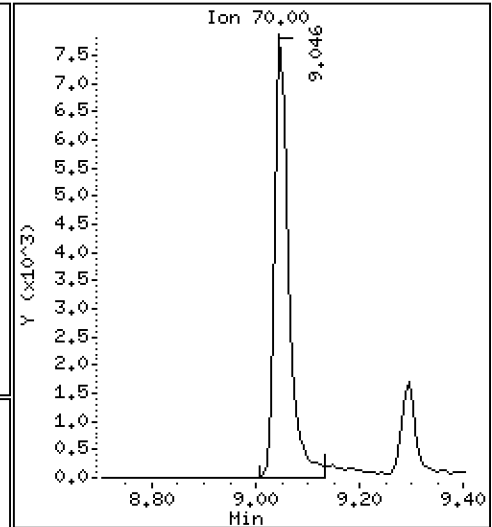
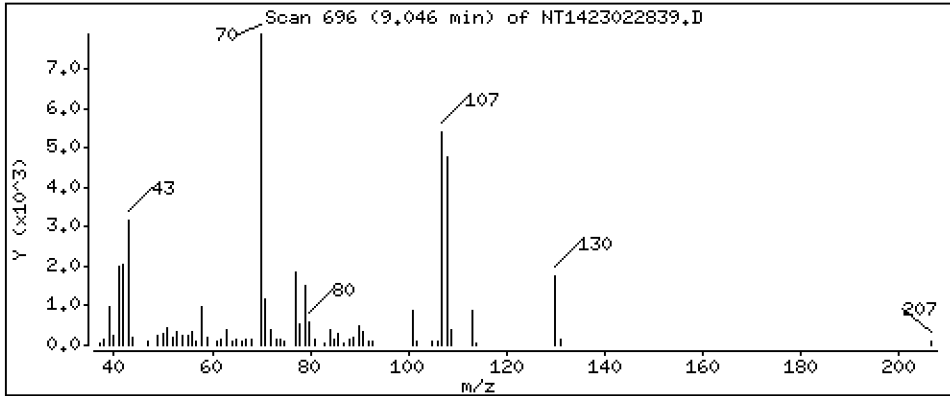
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 0.5593 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

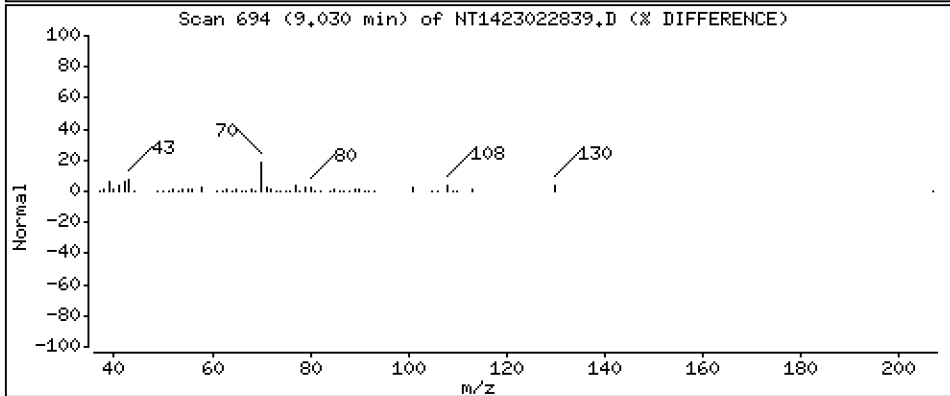
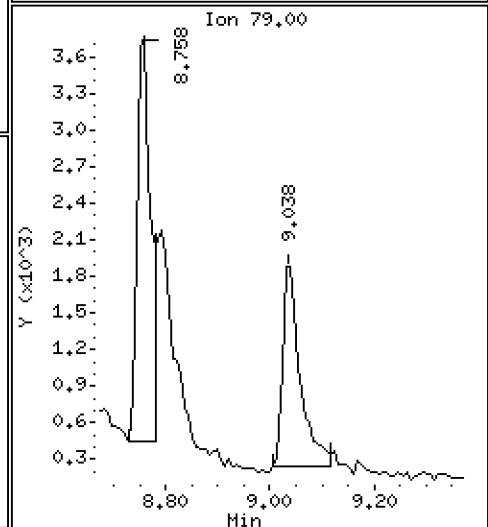
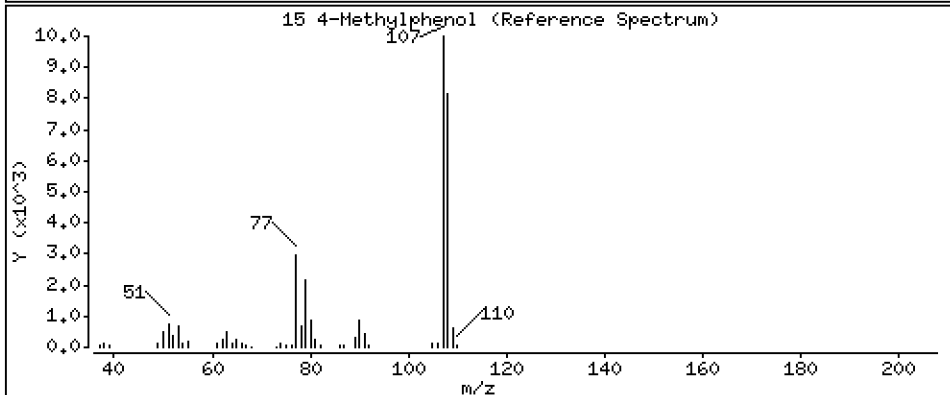
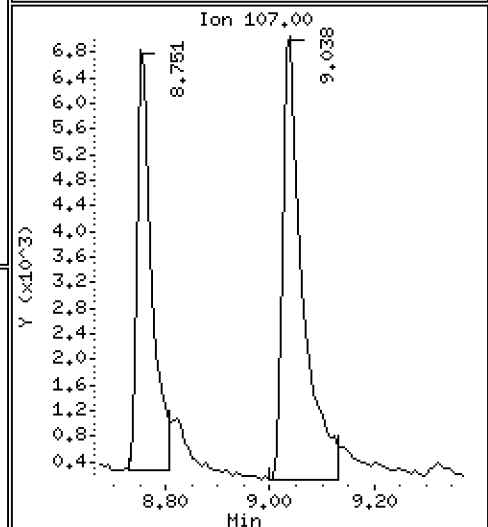
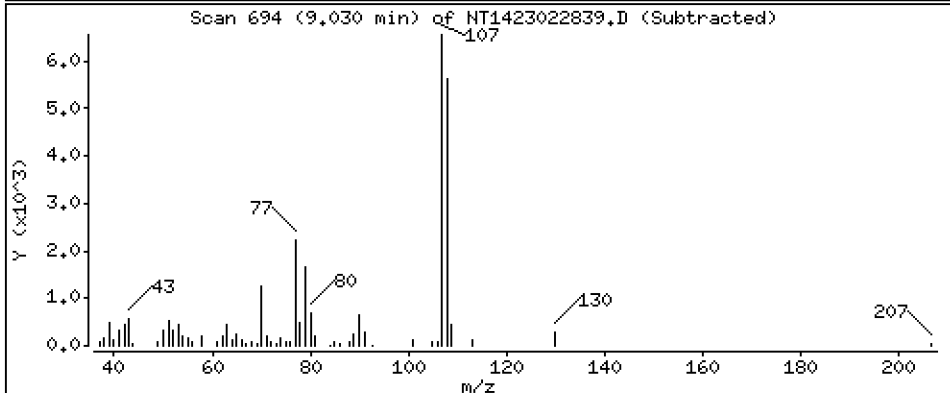
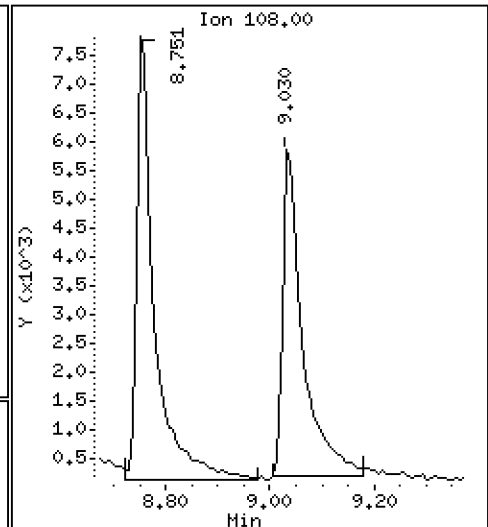
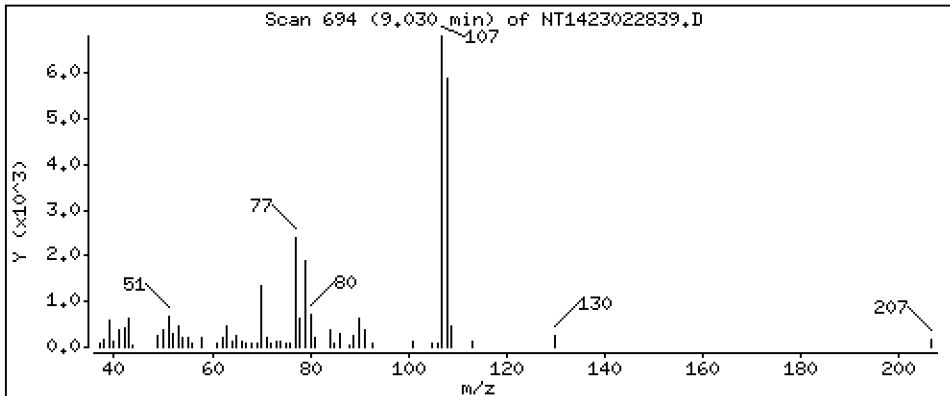
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.4047 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

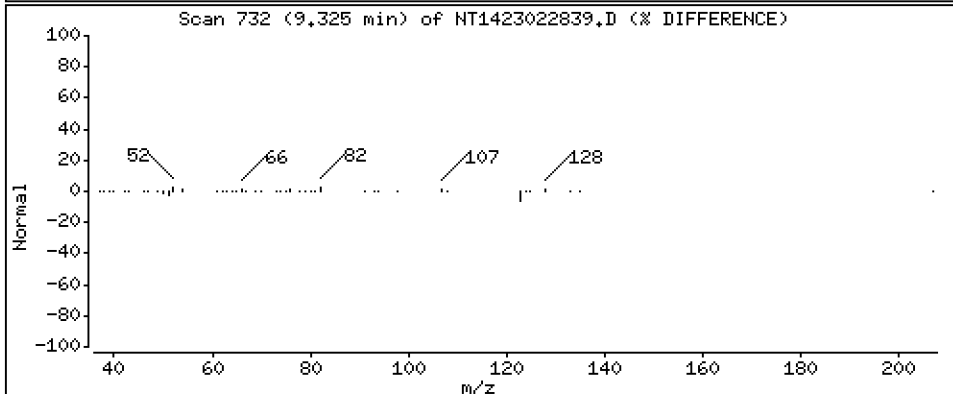
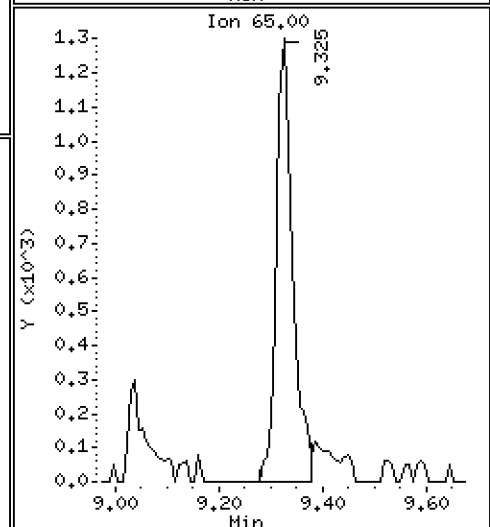
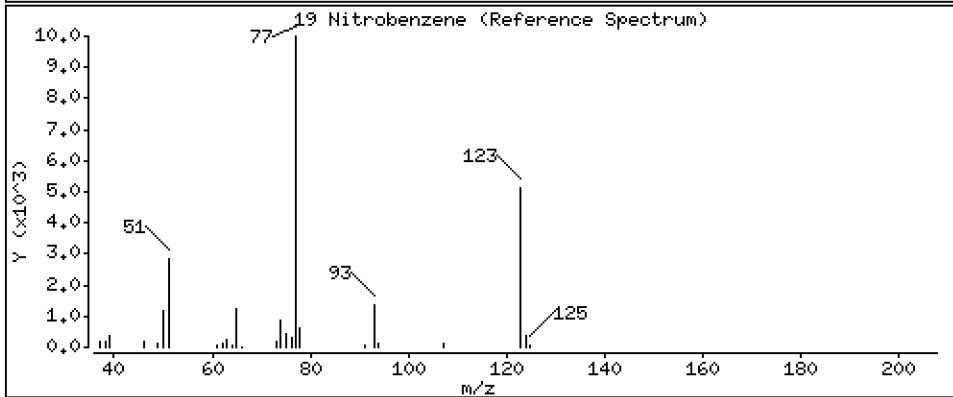
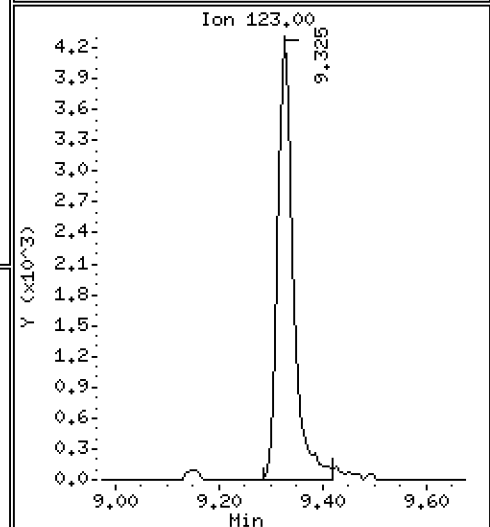
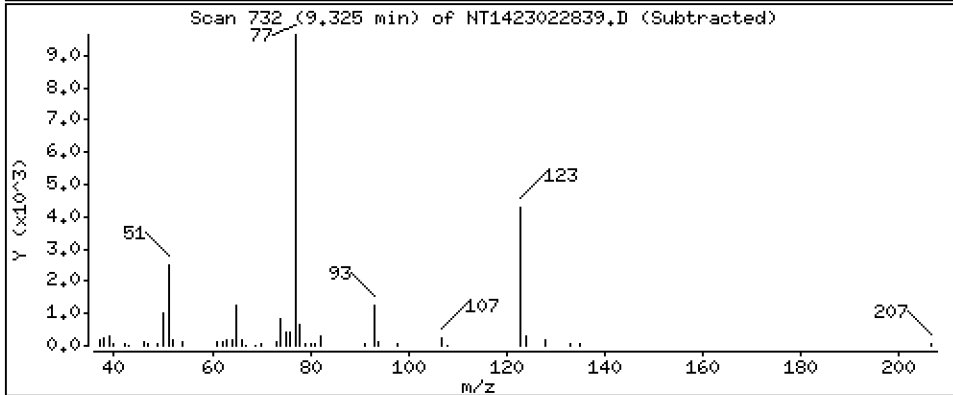
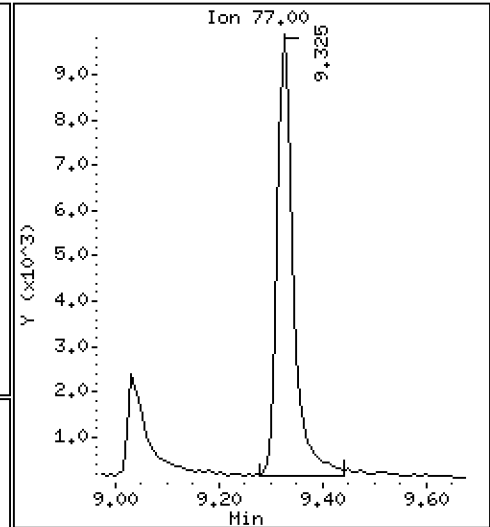
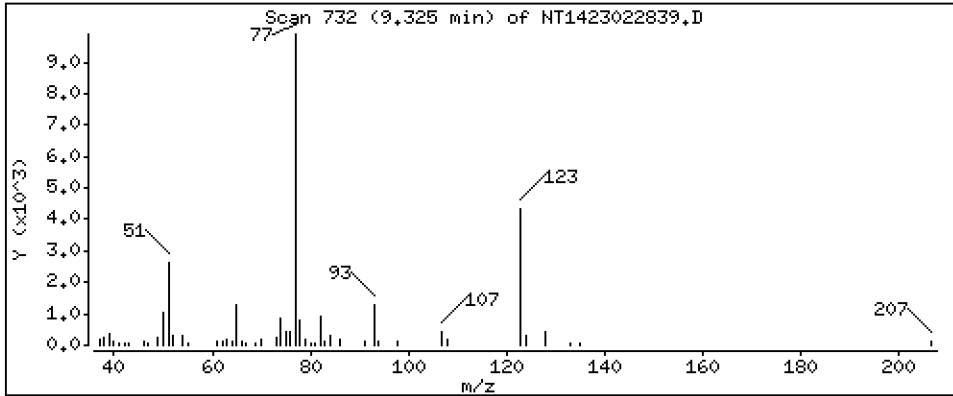
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,5354 ug/mL

19 Nitrobenzene



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

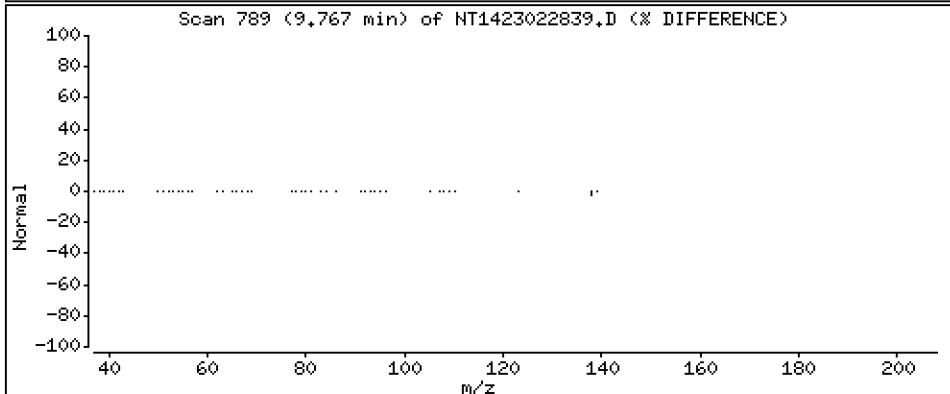
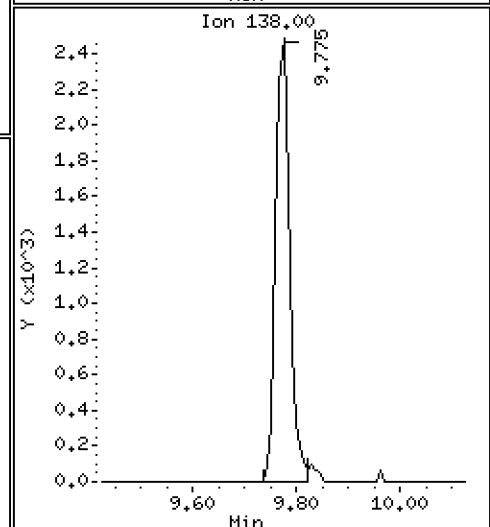
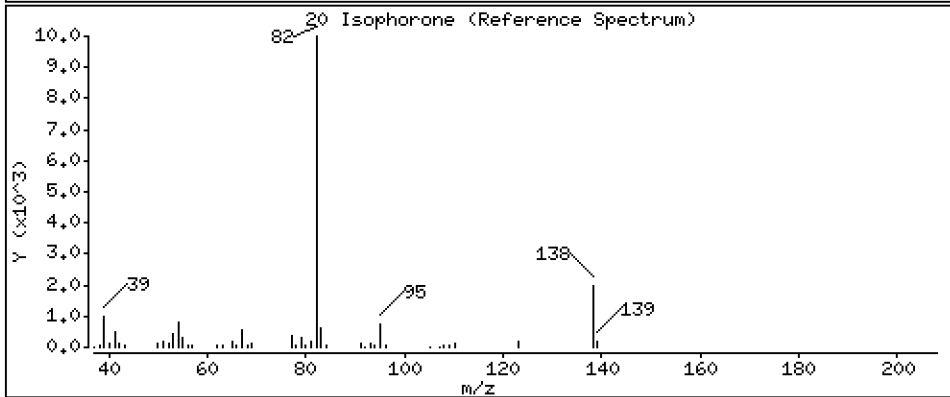
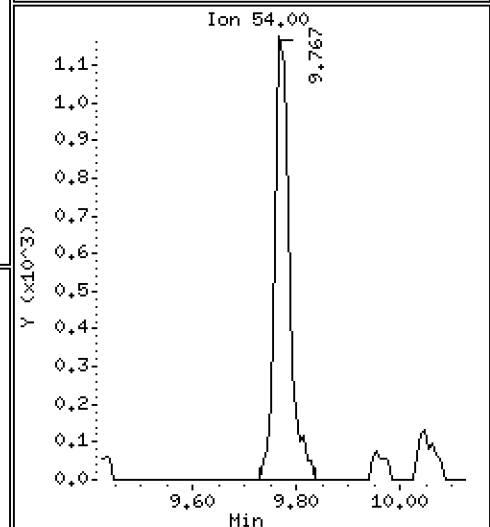
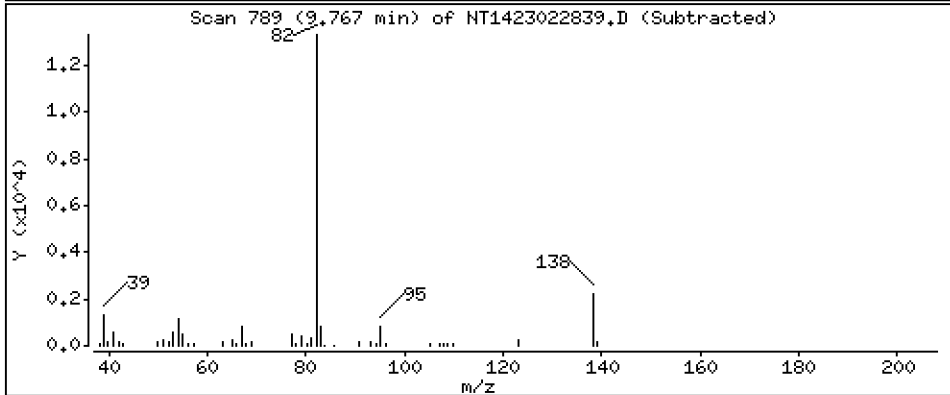
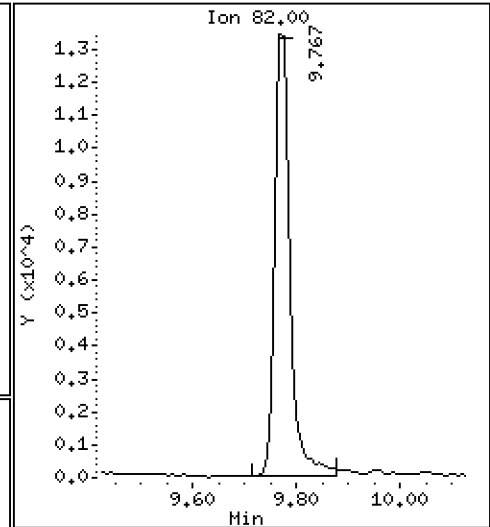
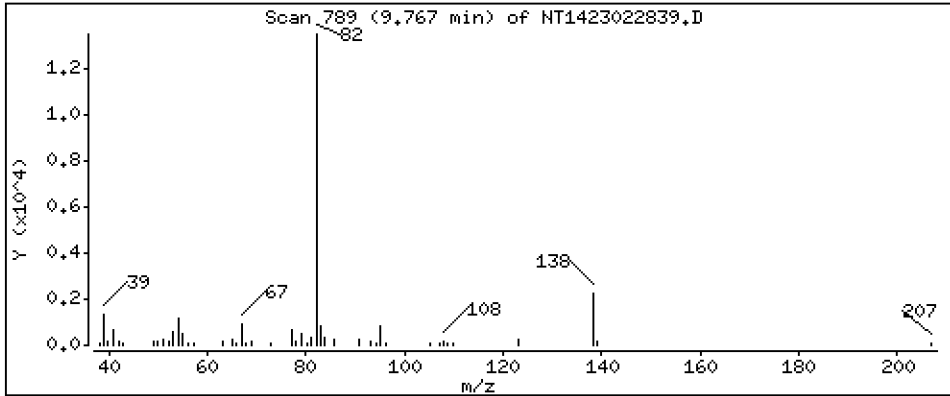
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.4431 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

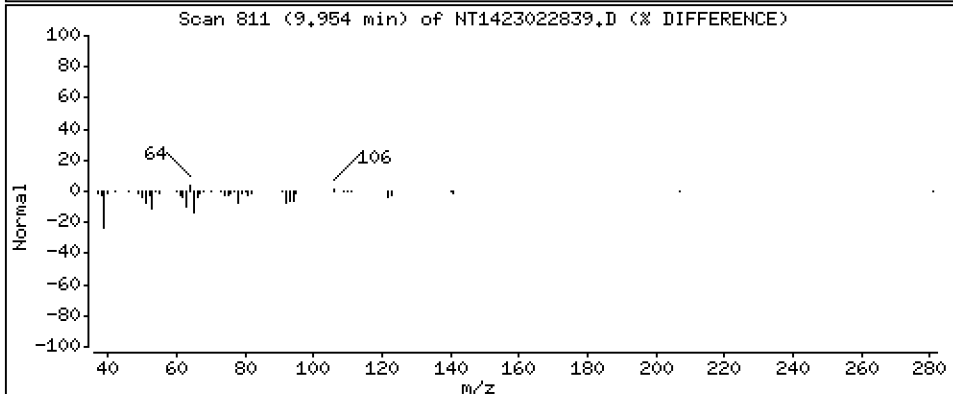
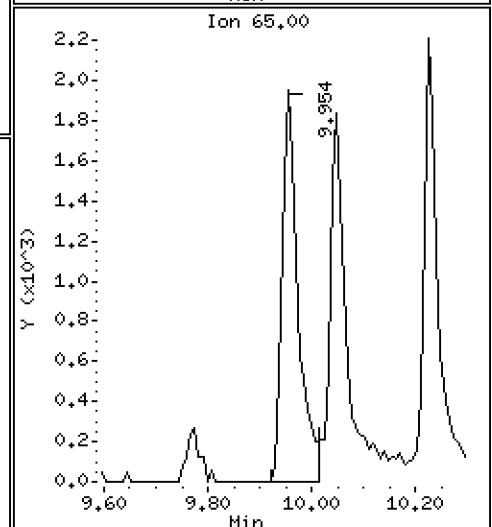
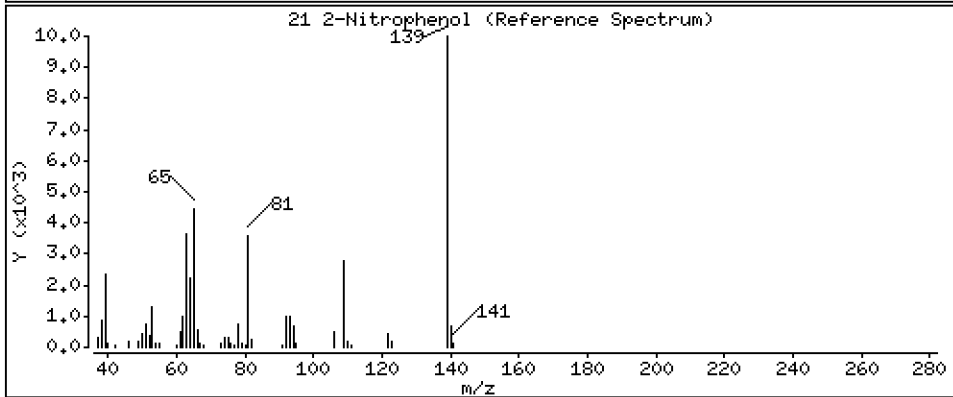
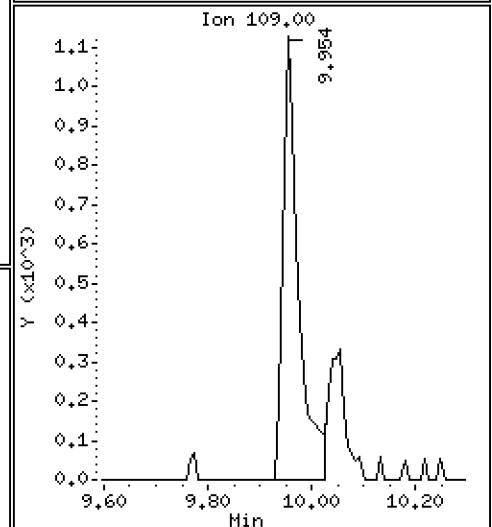
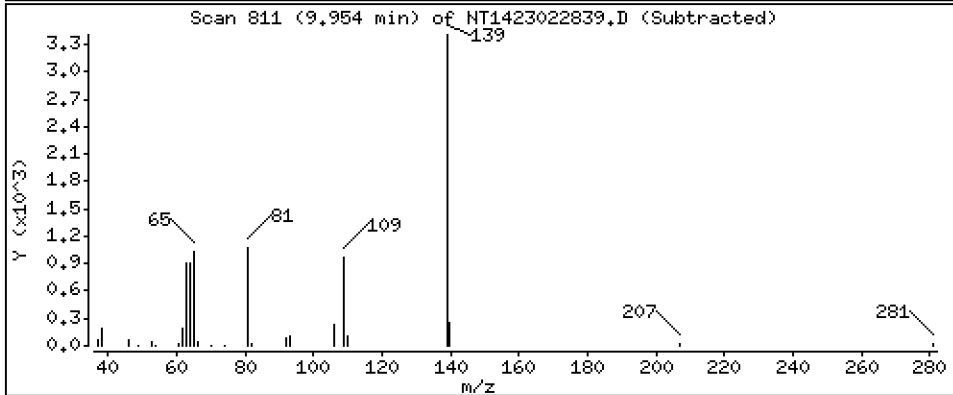
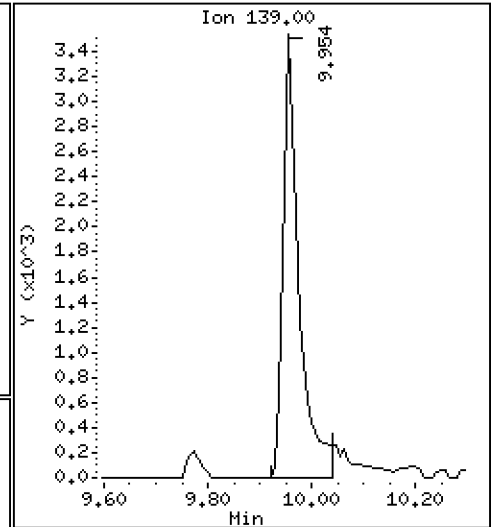
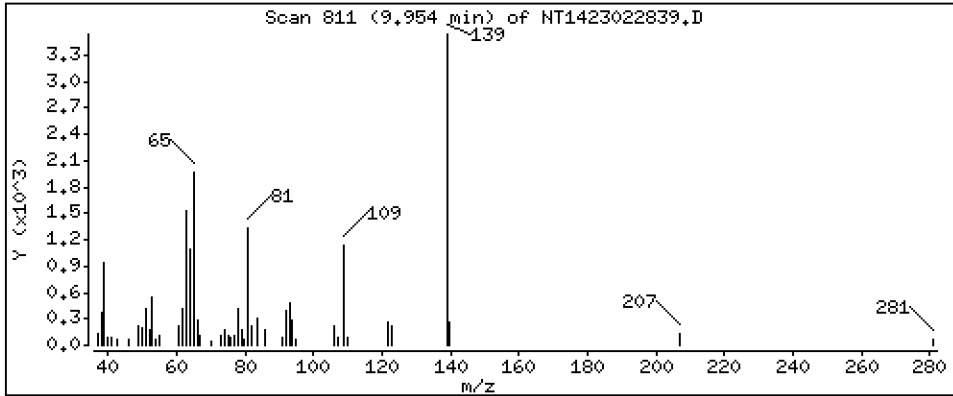
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,3848 ug/mL





Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

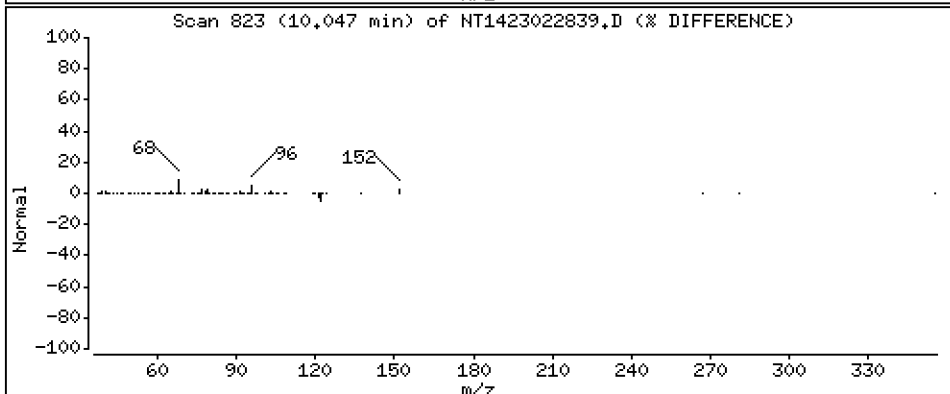
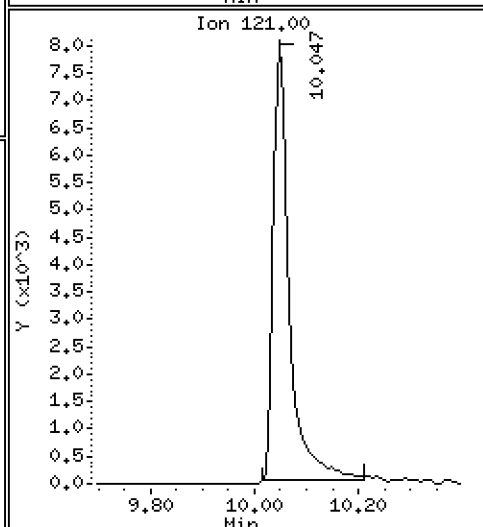
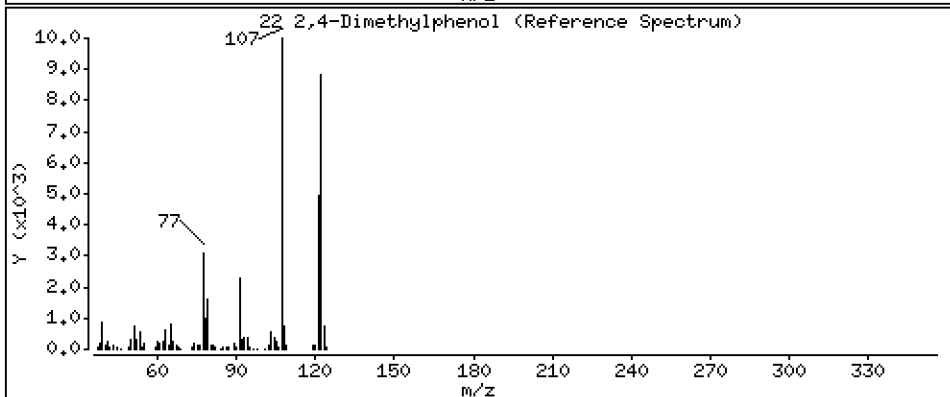
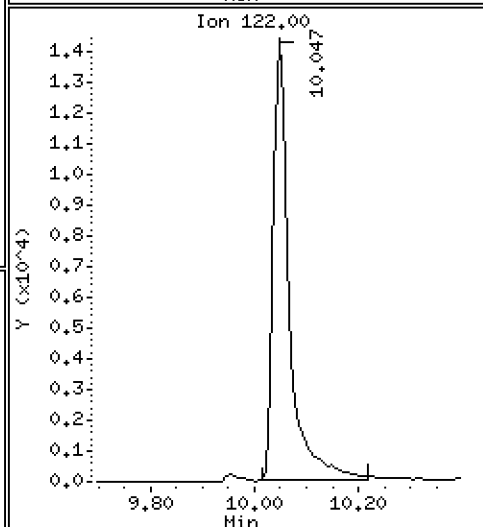
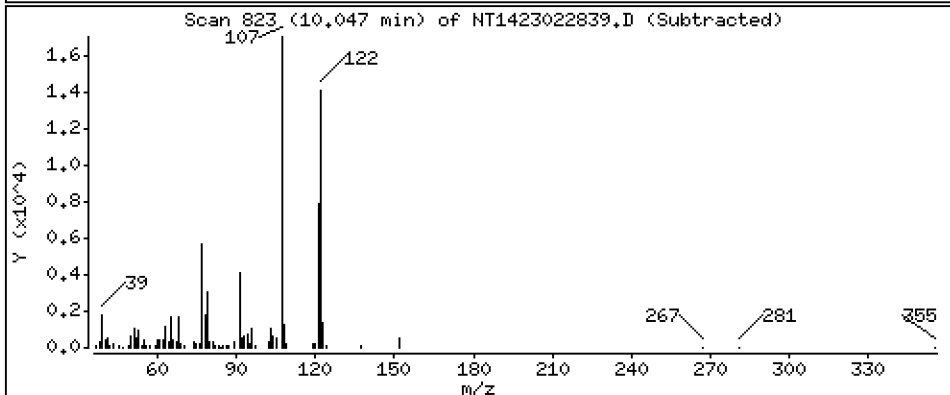
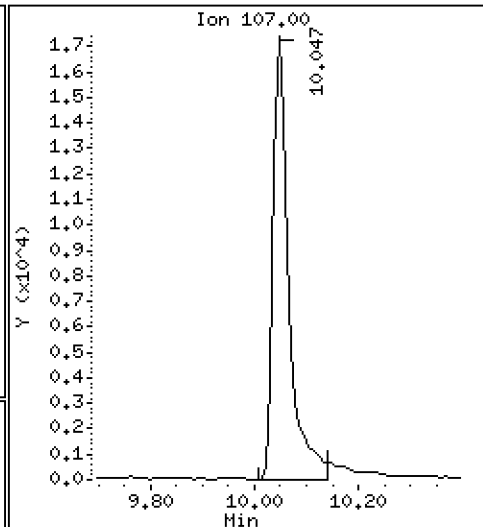
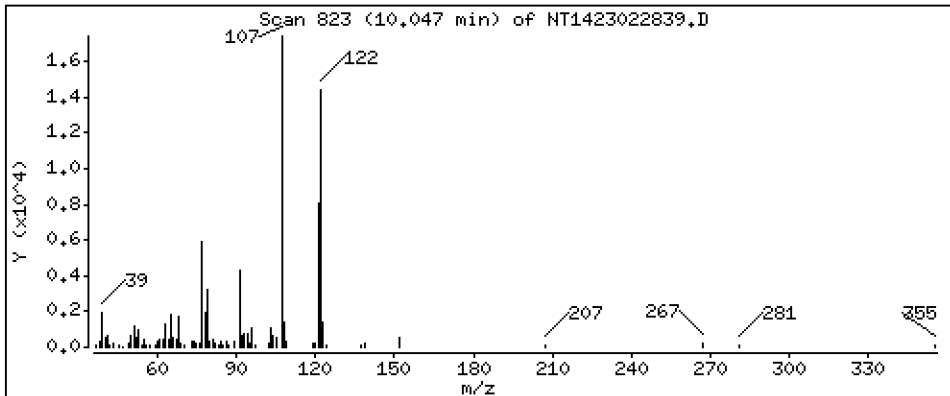
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 1,025 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

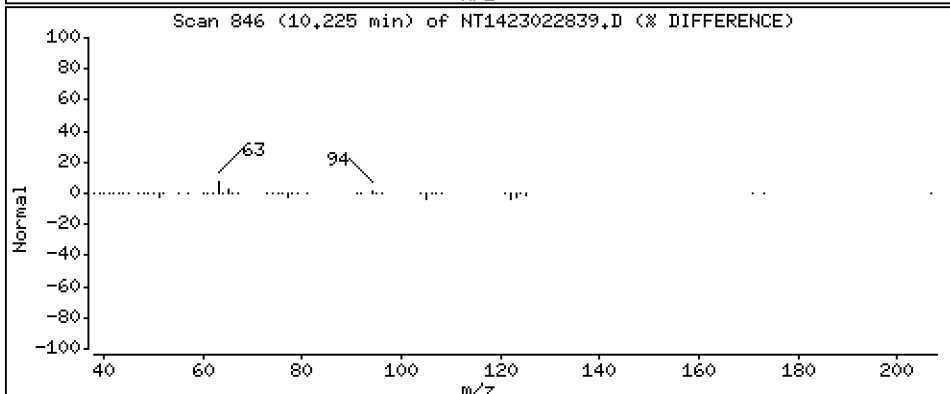
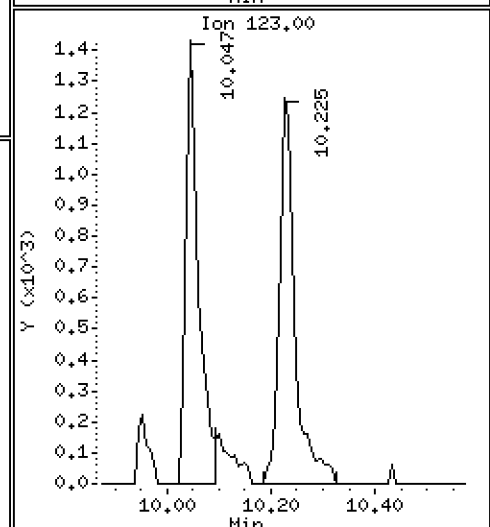
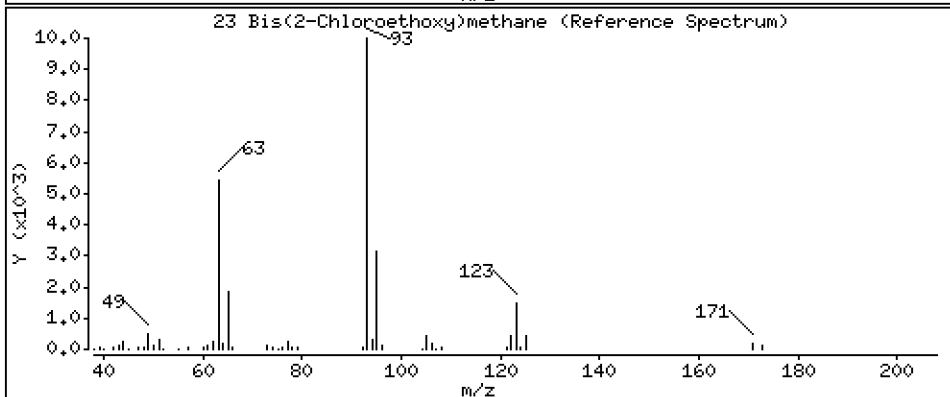
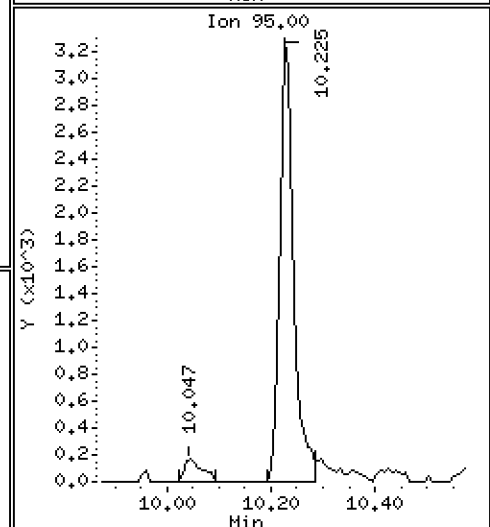
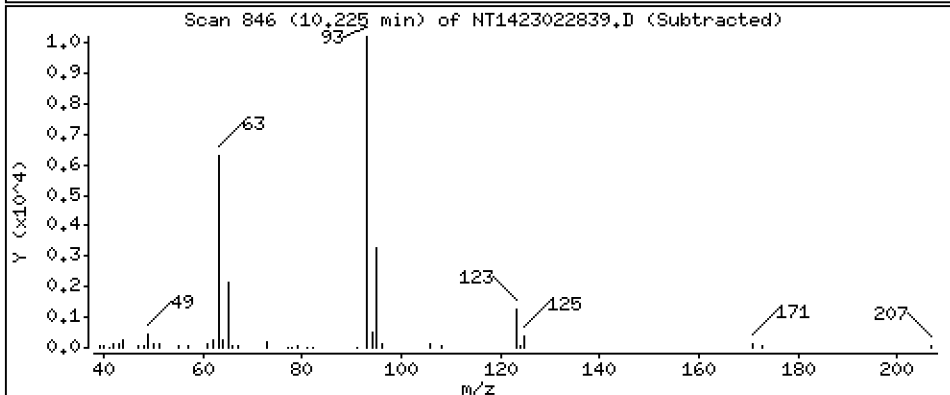
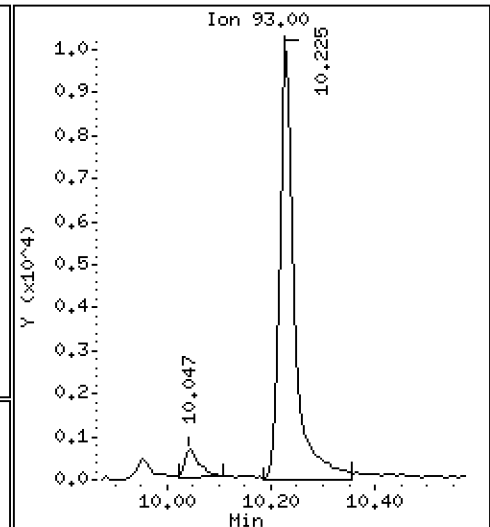
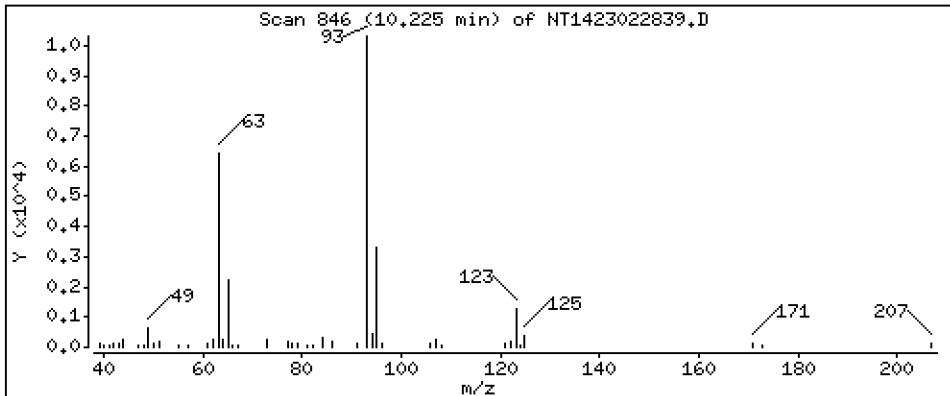
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 0.5299 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

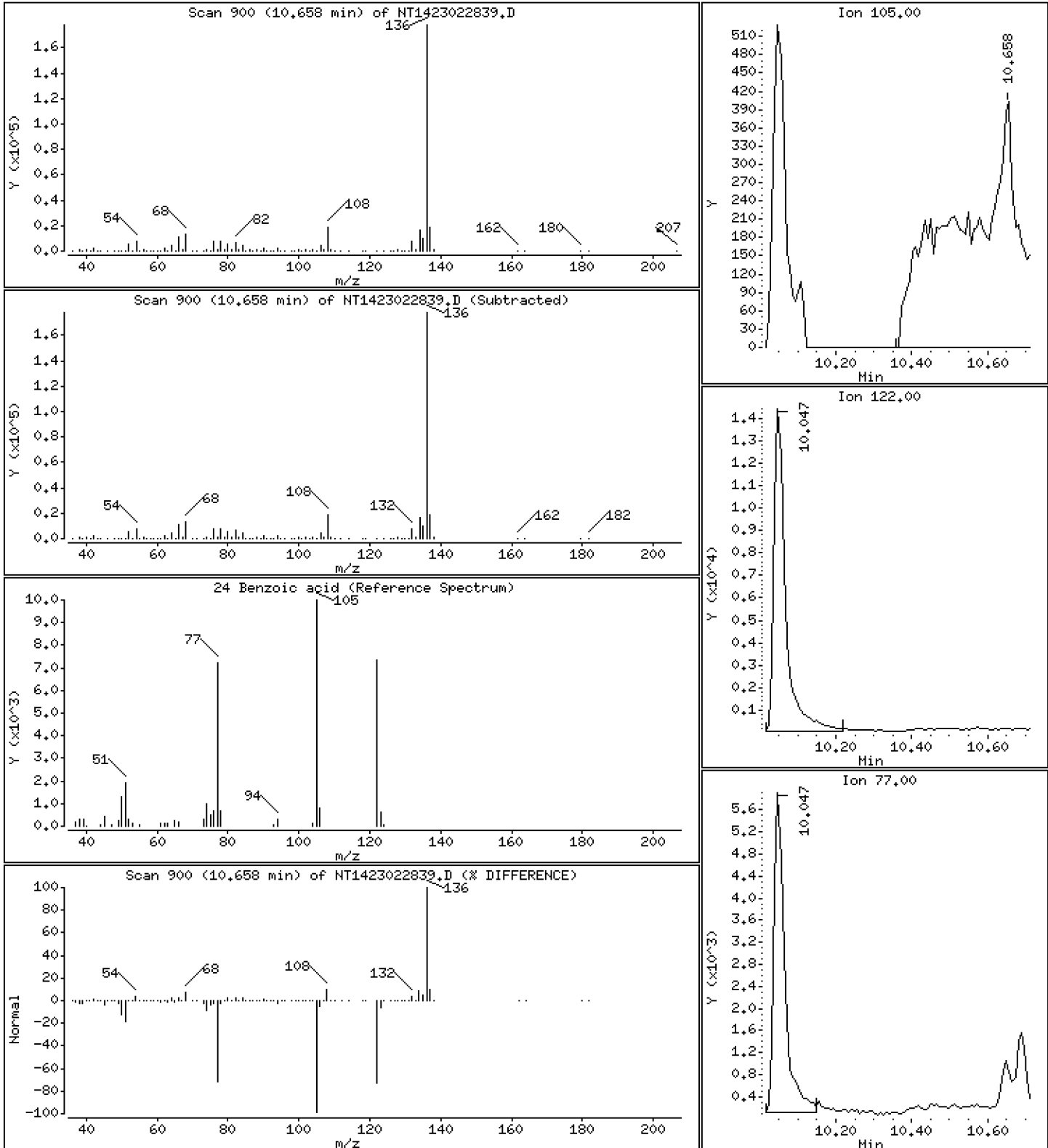
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.9092 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

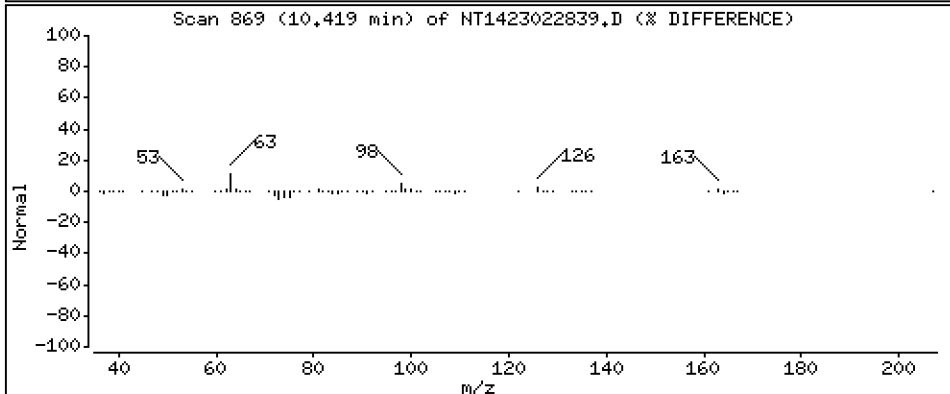
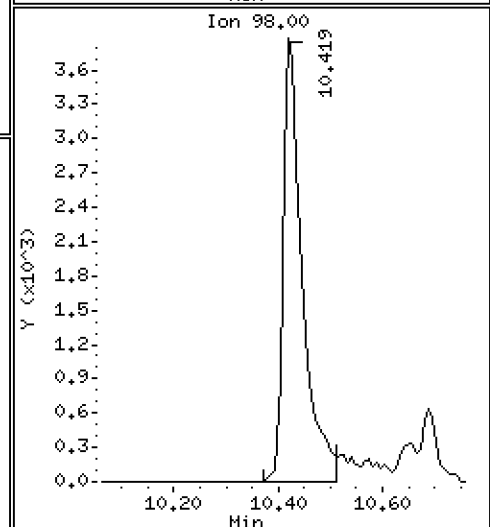
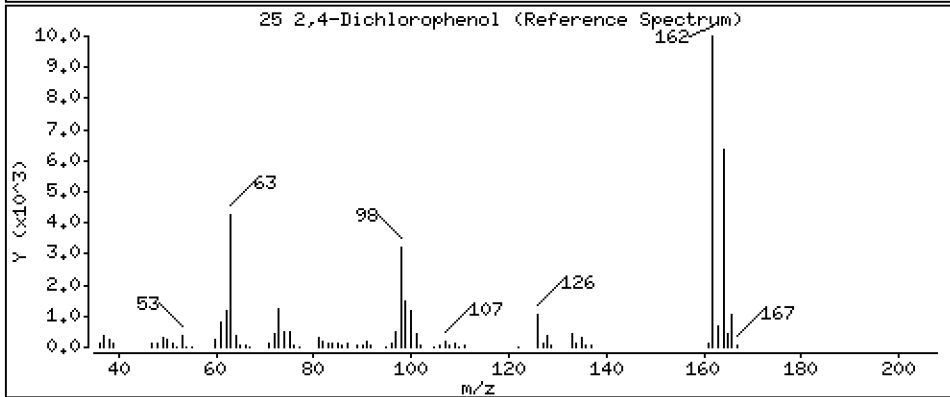
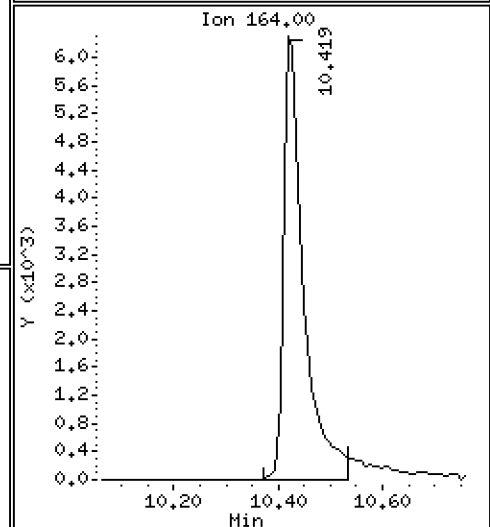
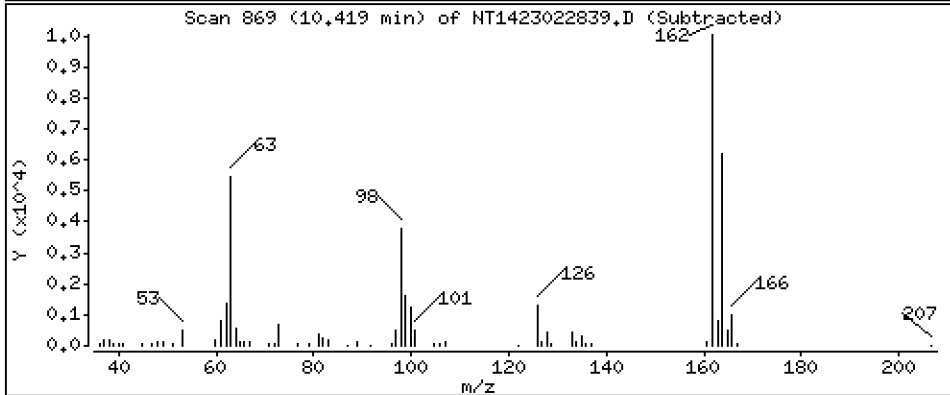
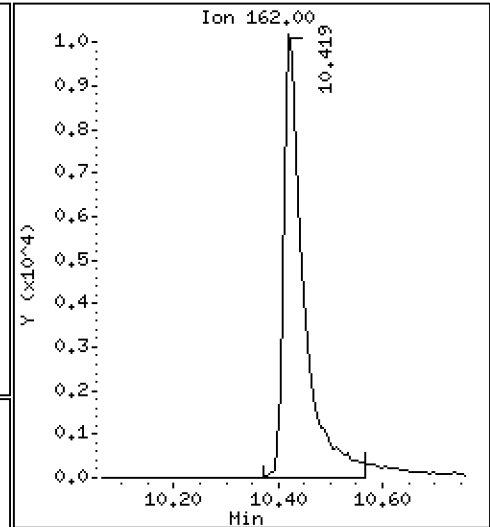
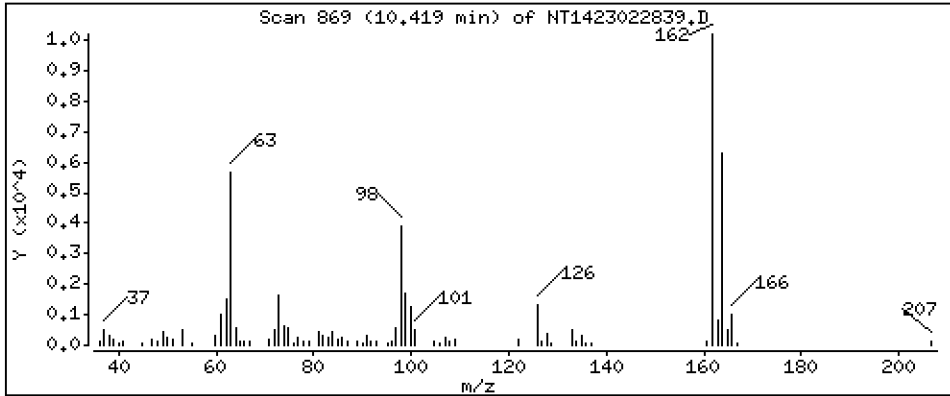
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,8740 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

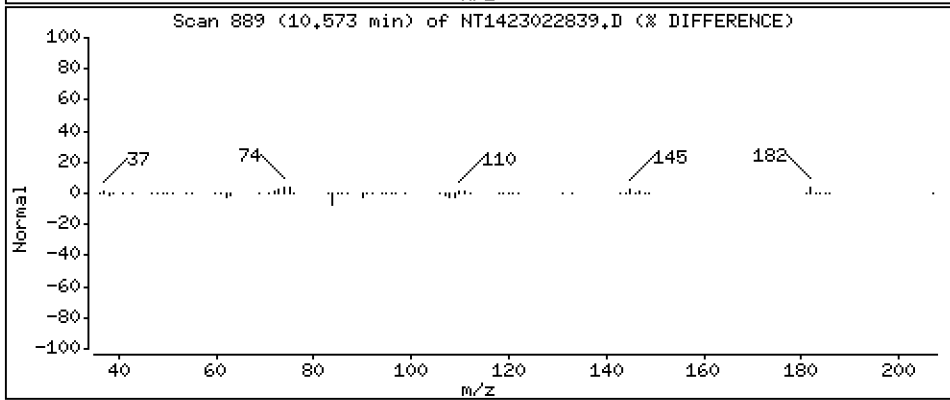
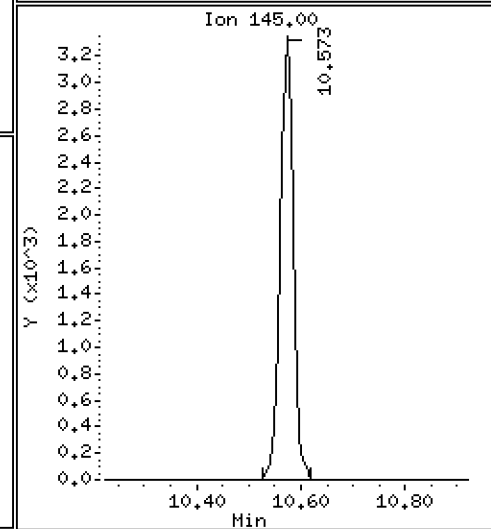
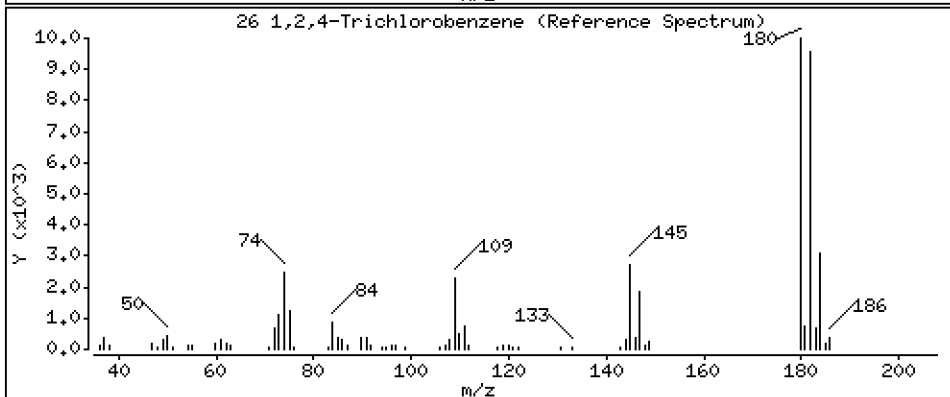
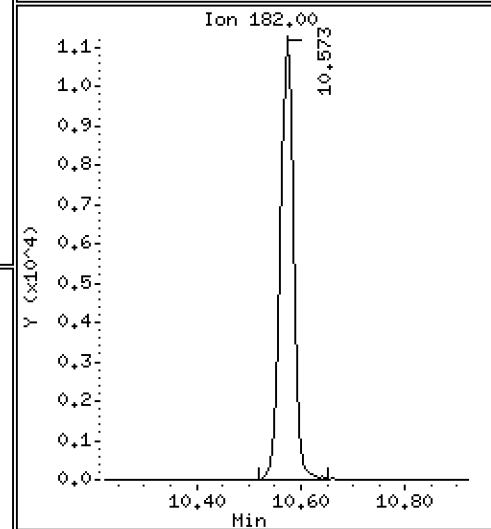
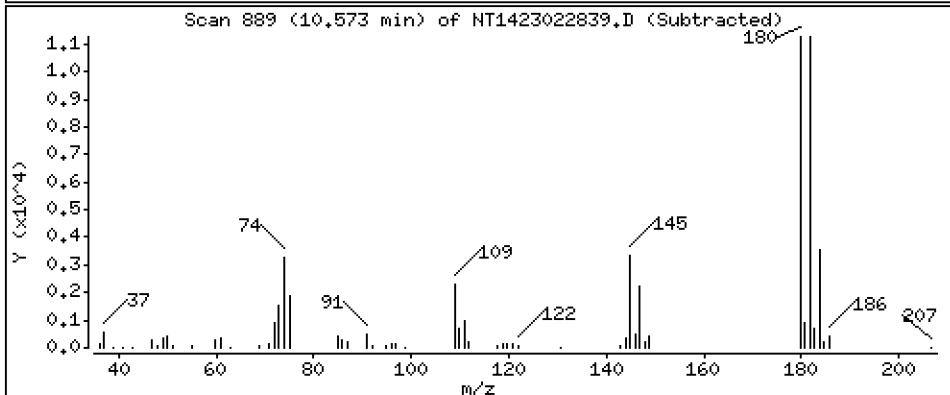
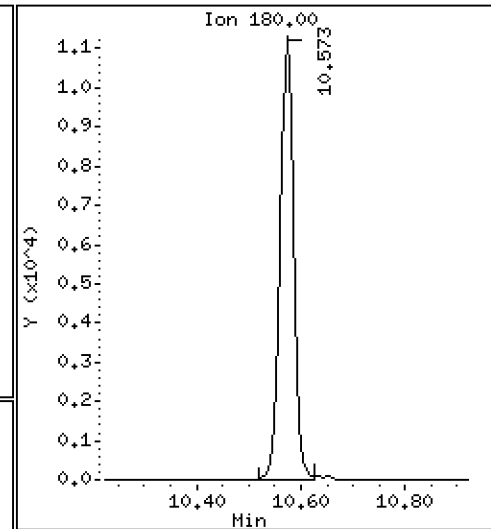
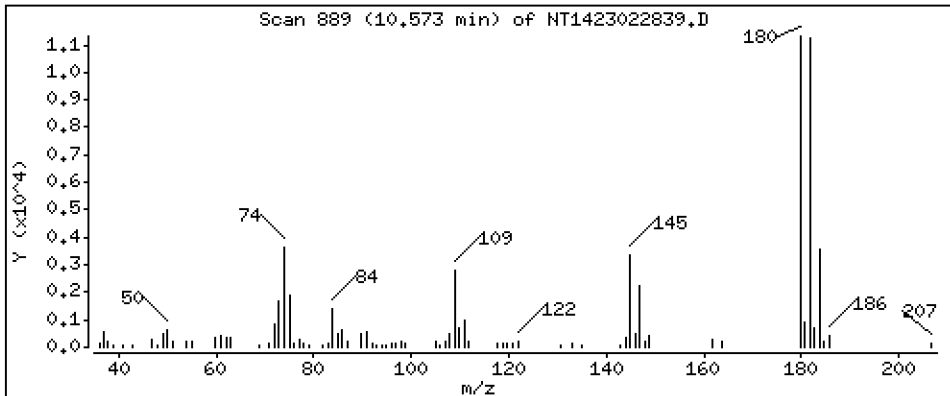
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,4967 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

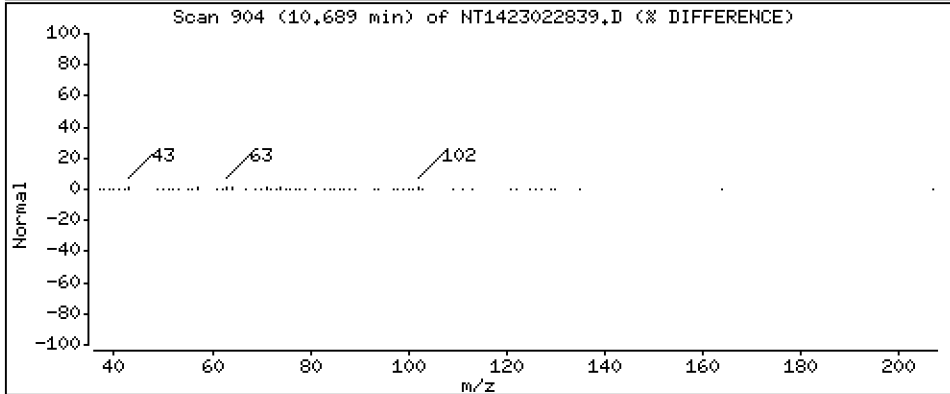
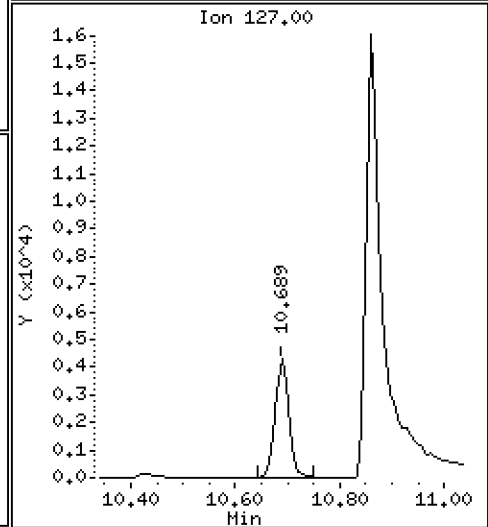
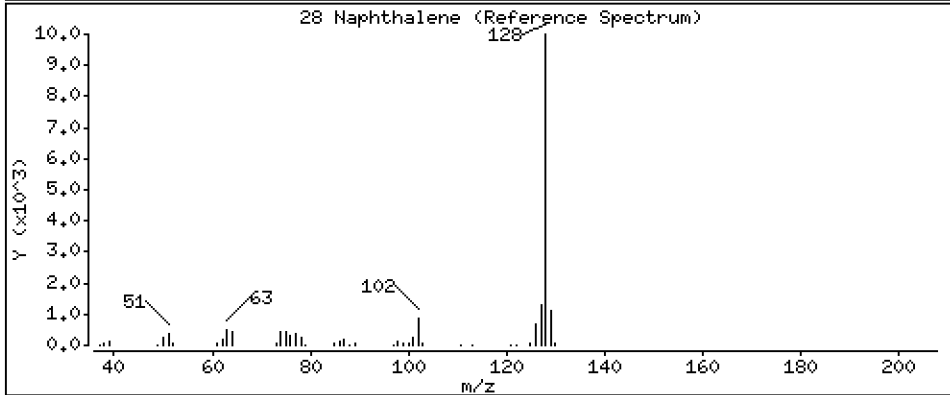
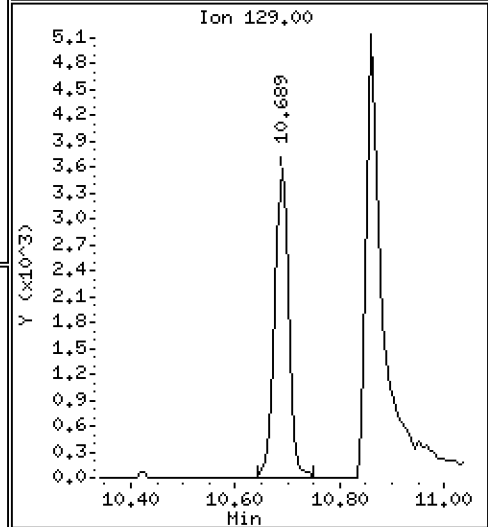
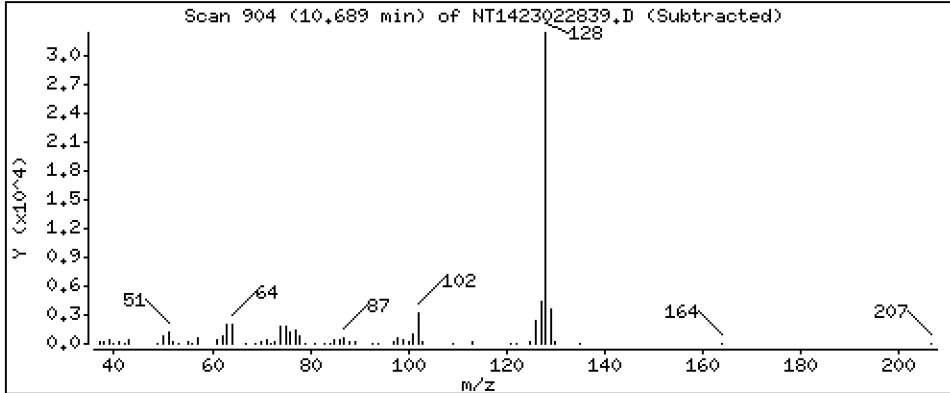
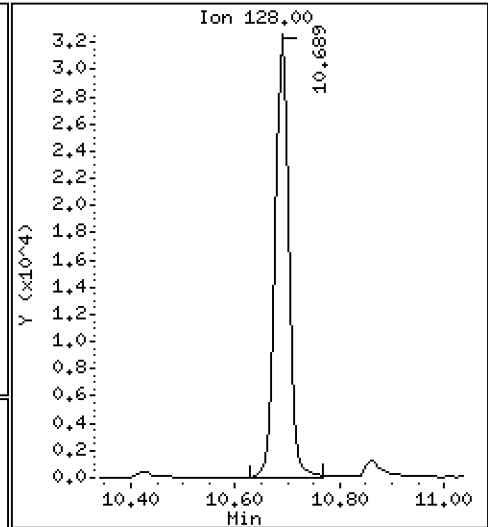
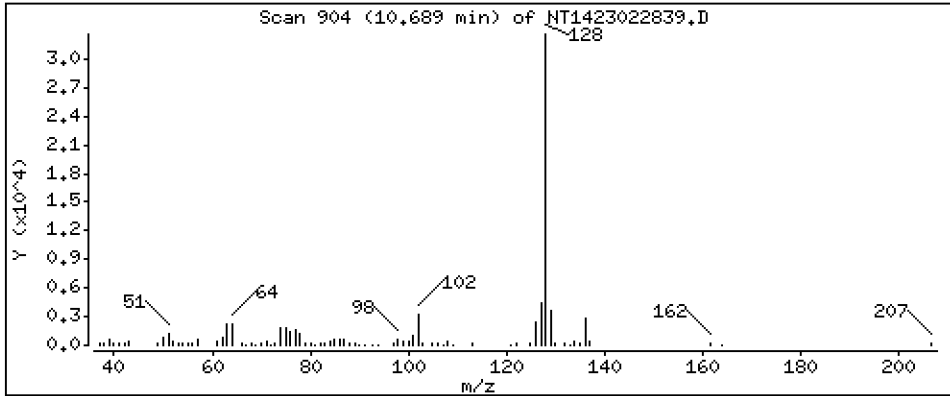
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,5257 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

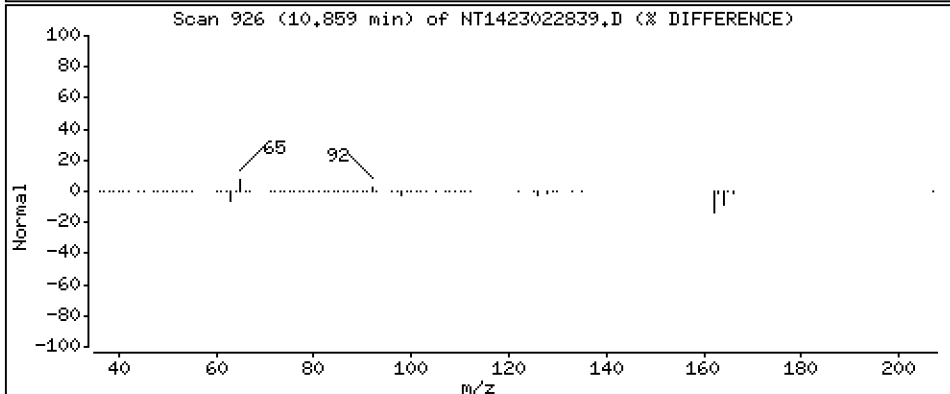
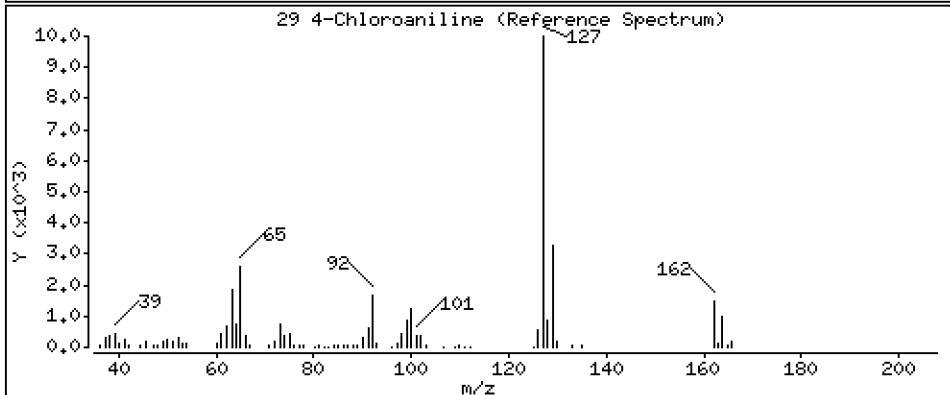
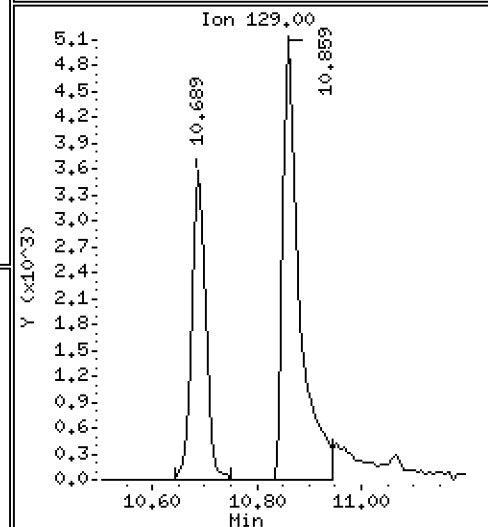
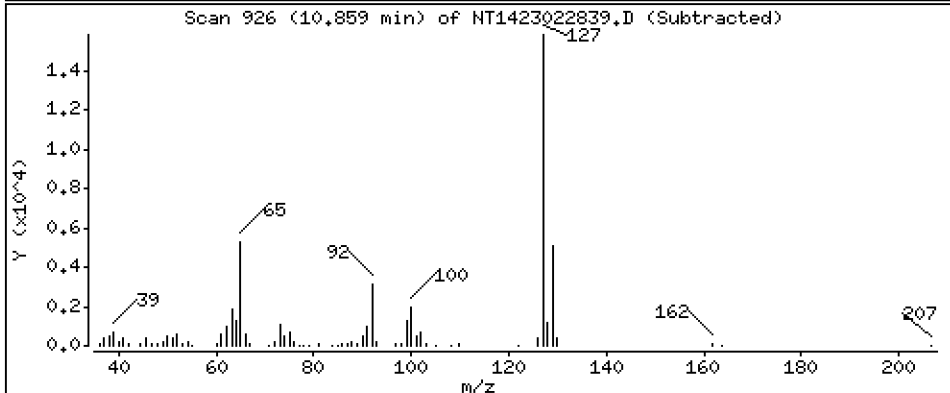
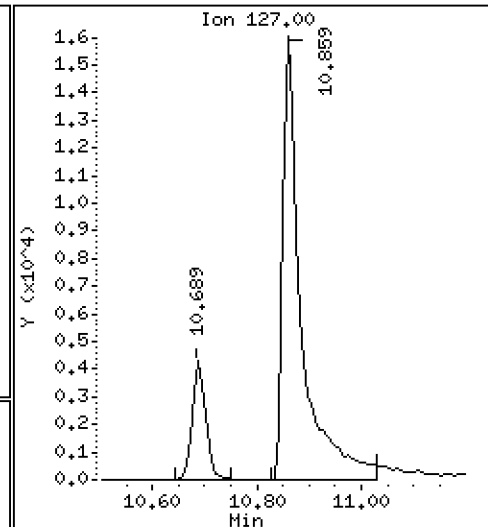
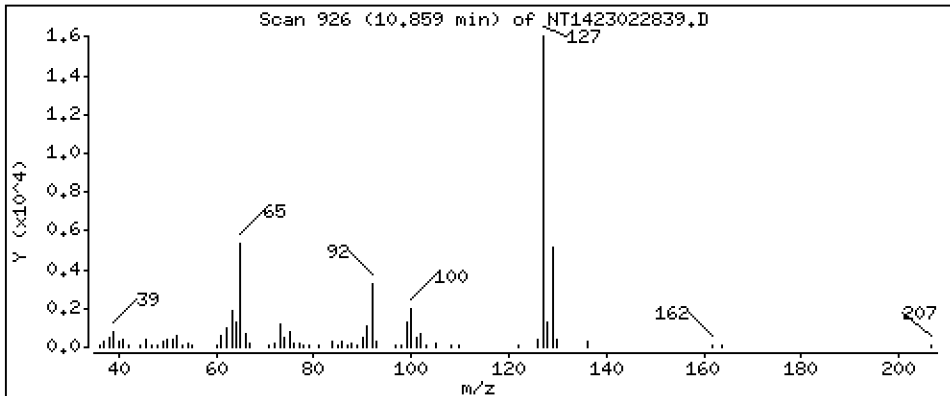
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,8967 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

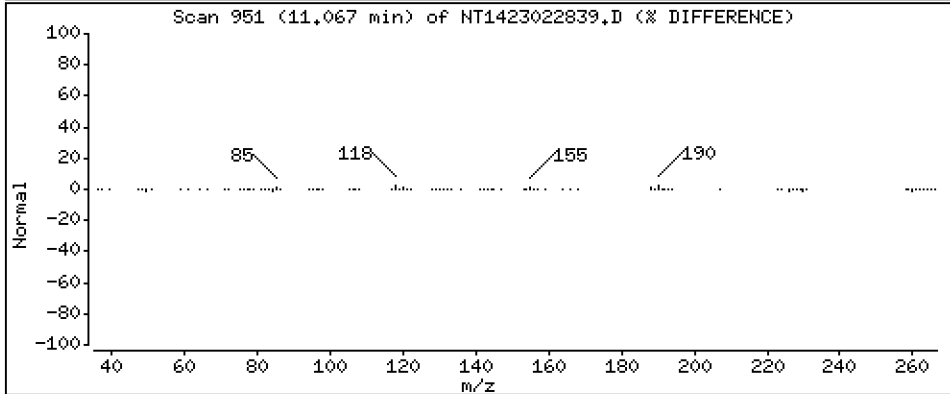
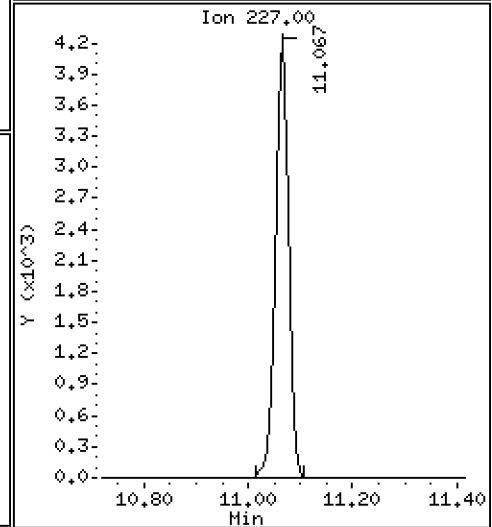
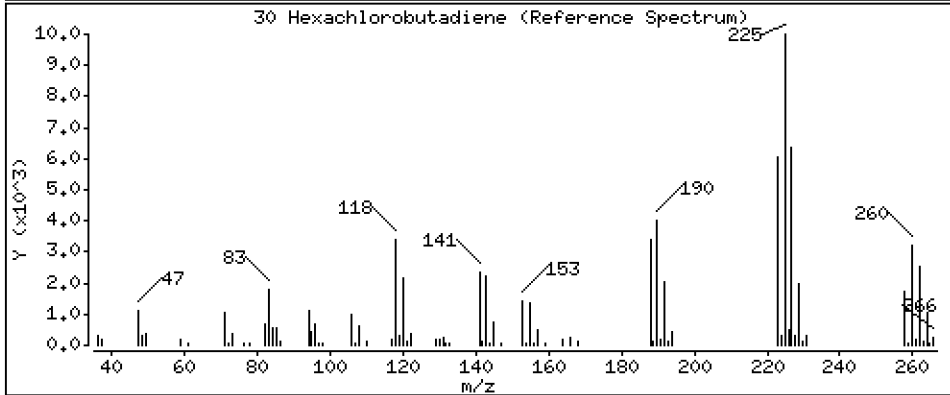
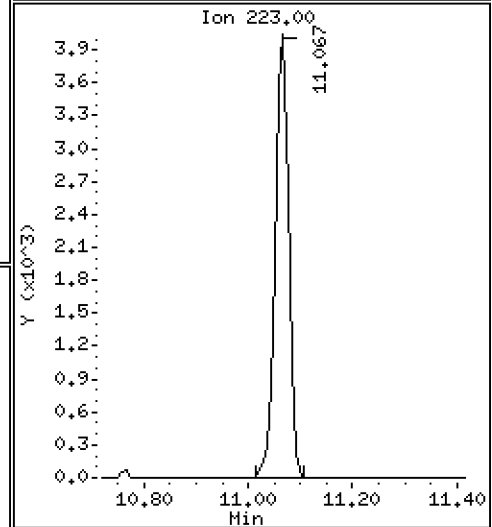
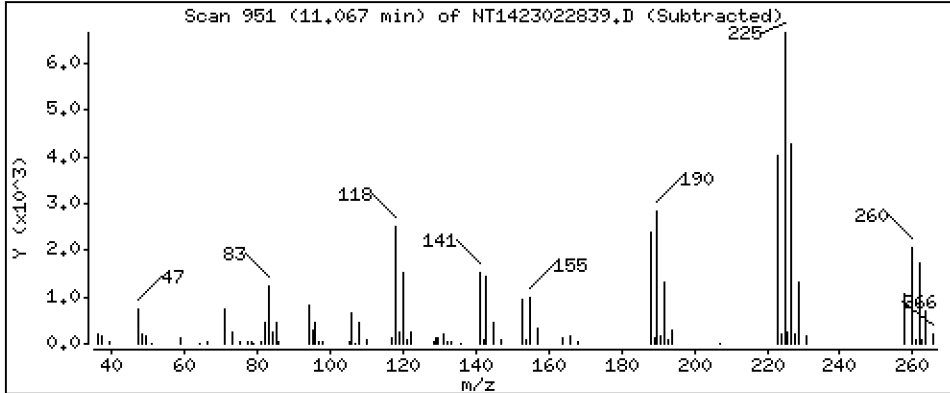
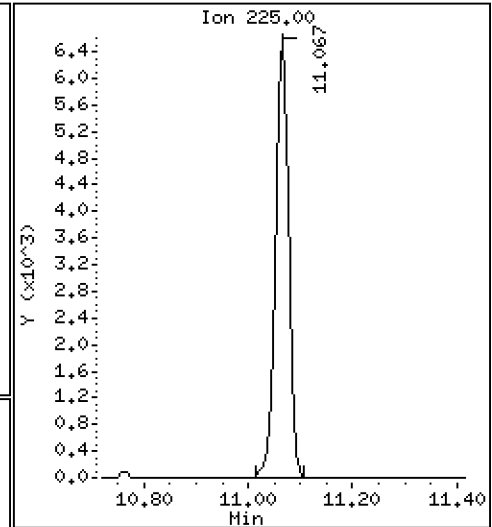
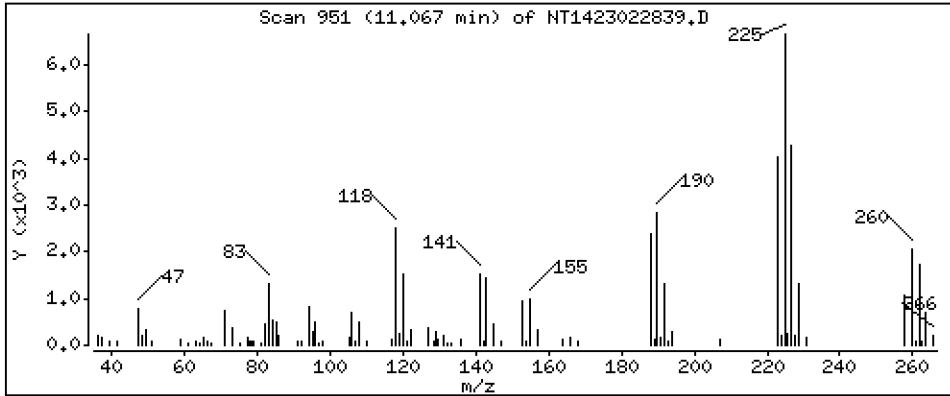
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,4614 ug/mL





Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

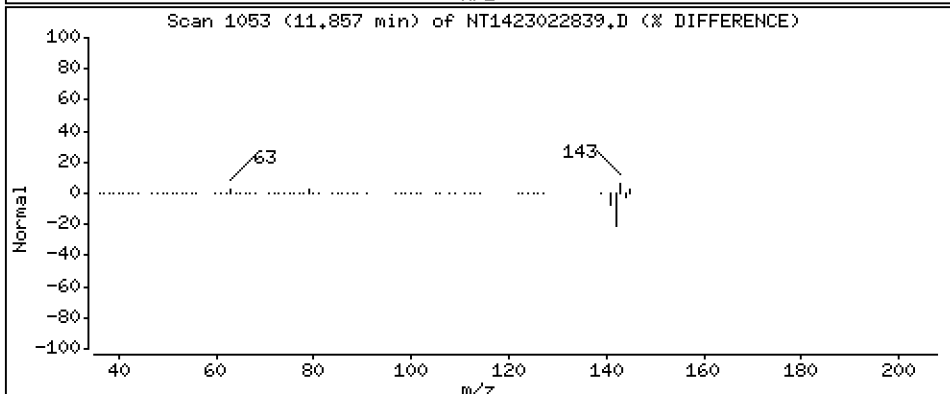
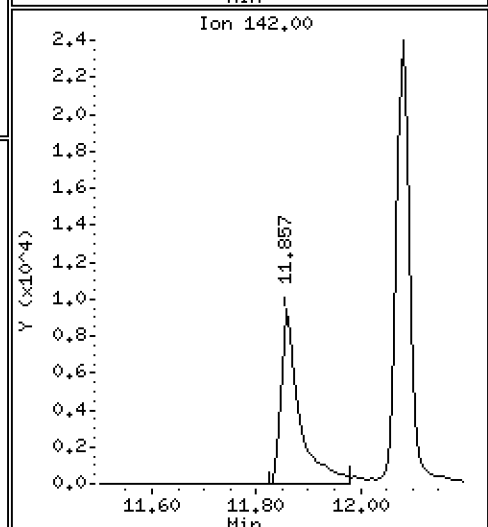
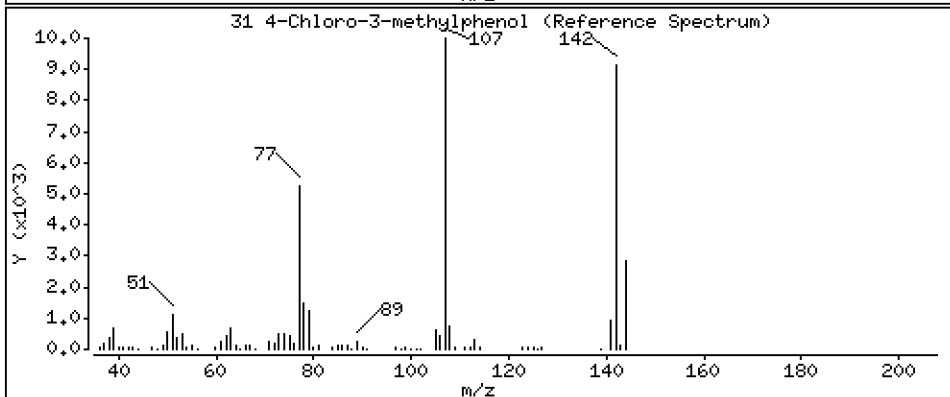
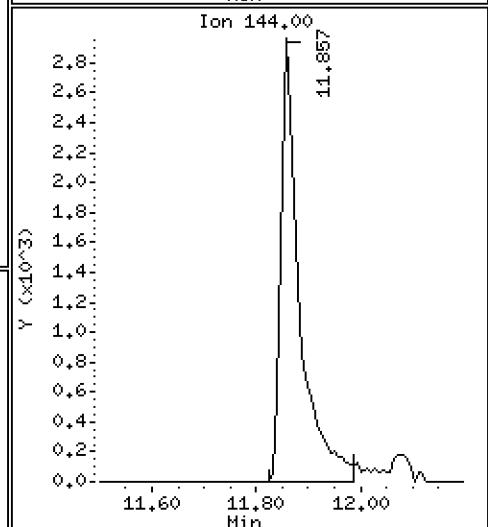
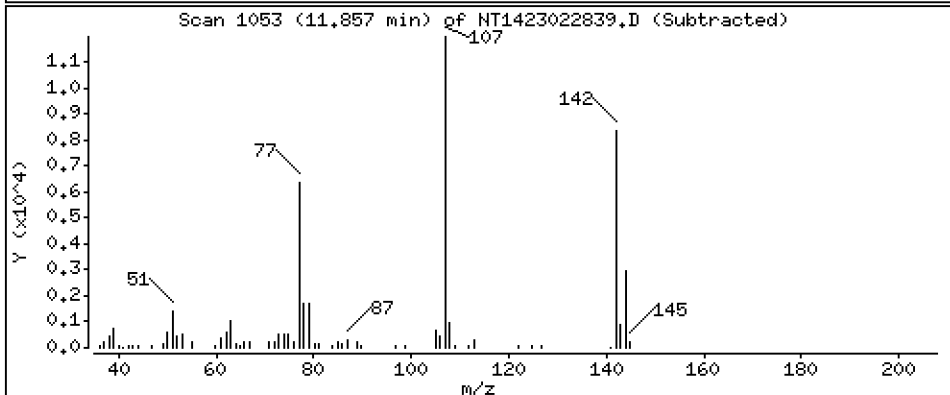
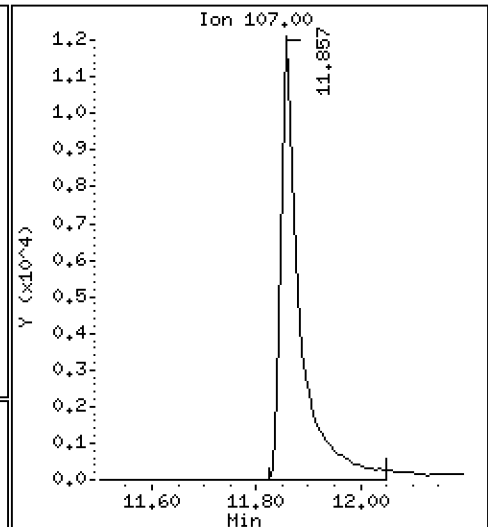
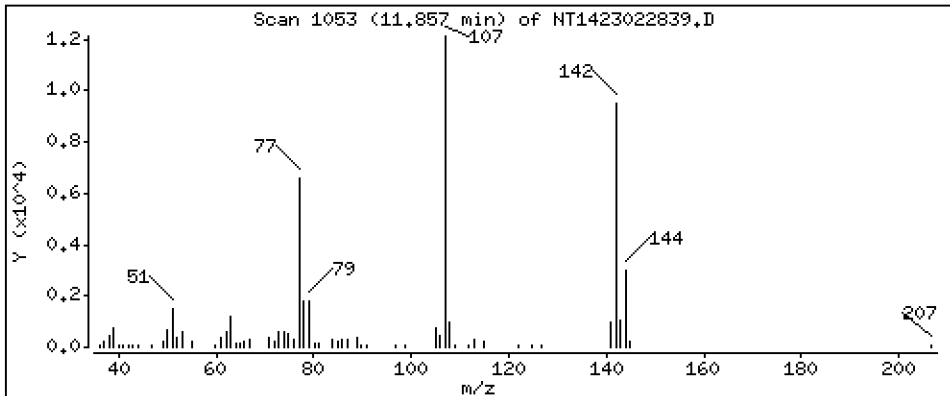
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 0.9960 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

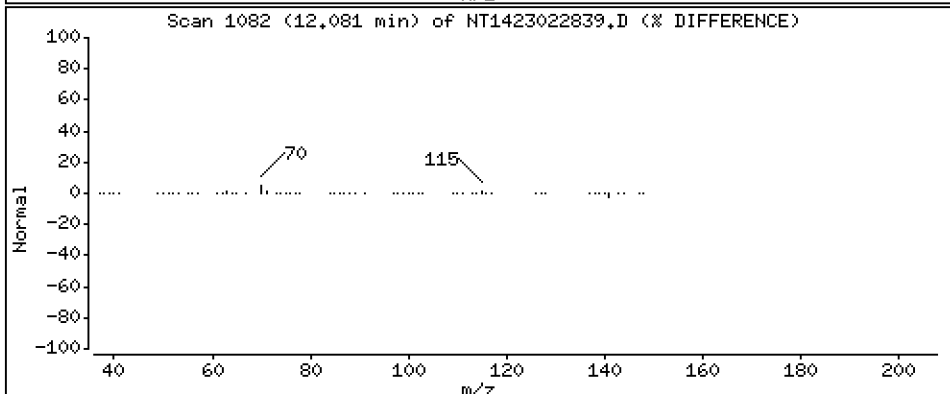
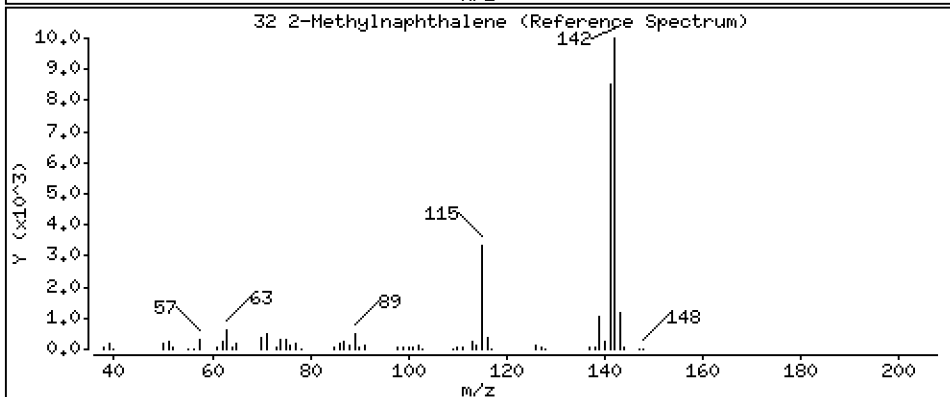
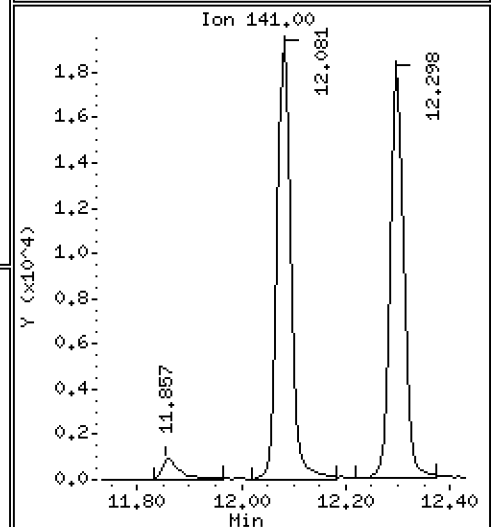
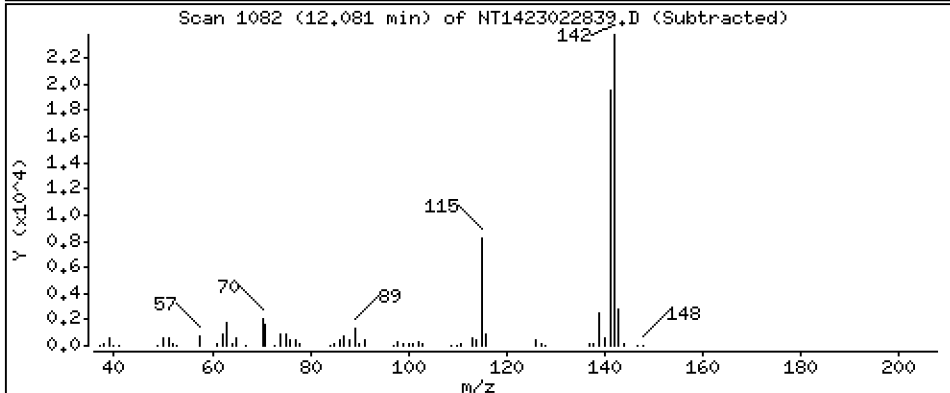
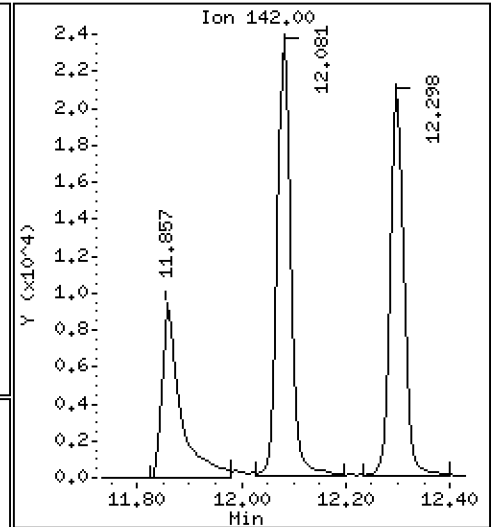
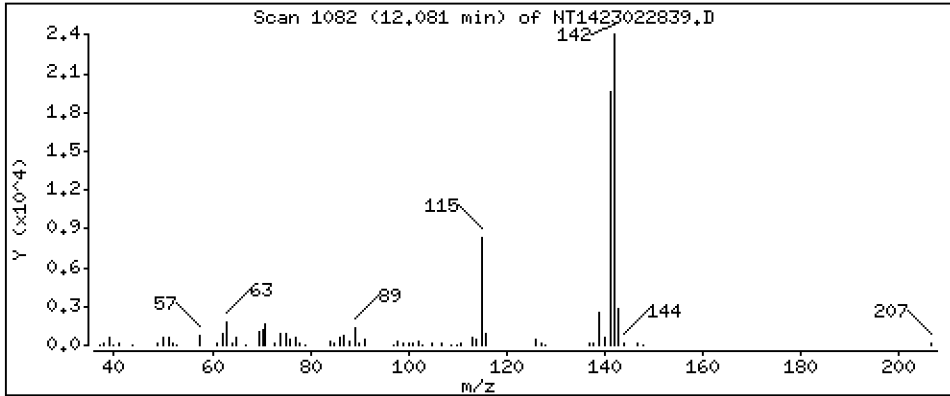
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,5142 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

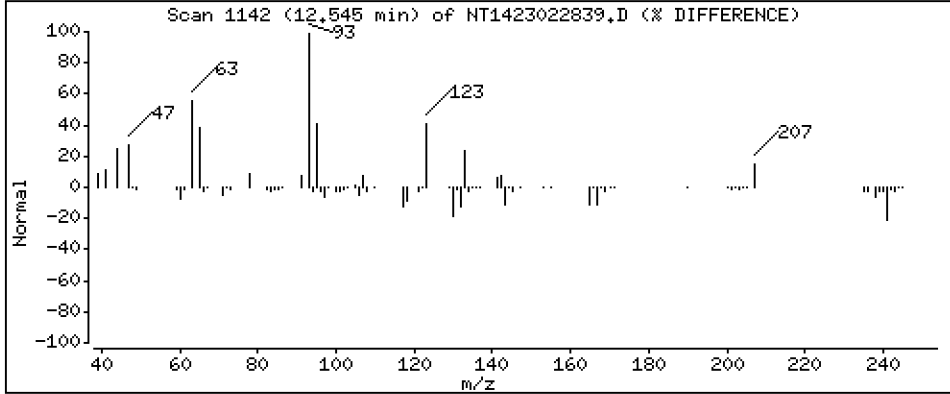
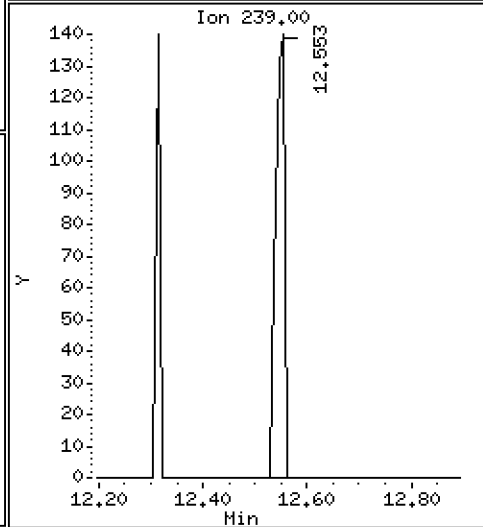
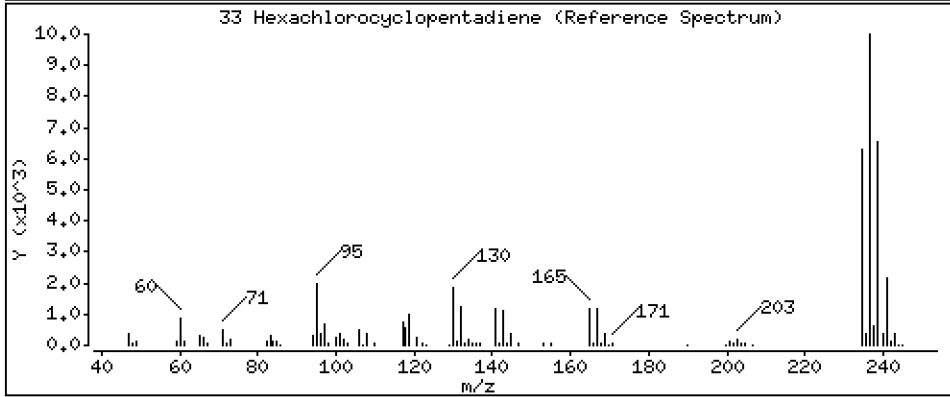
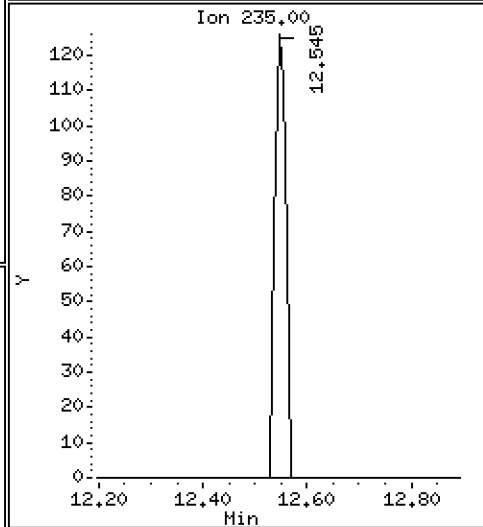
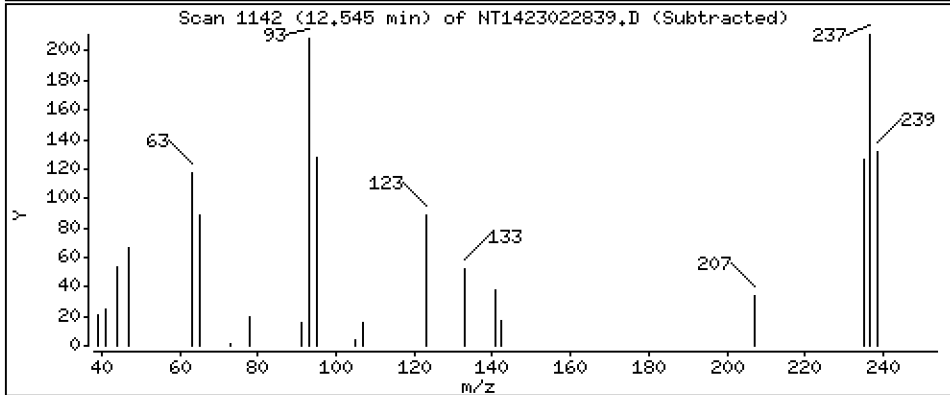
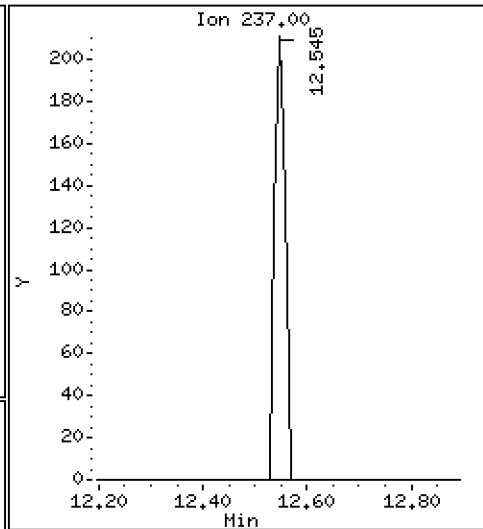
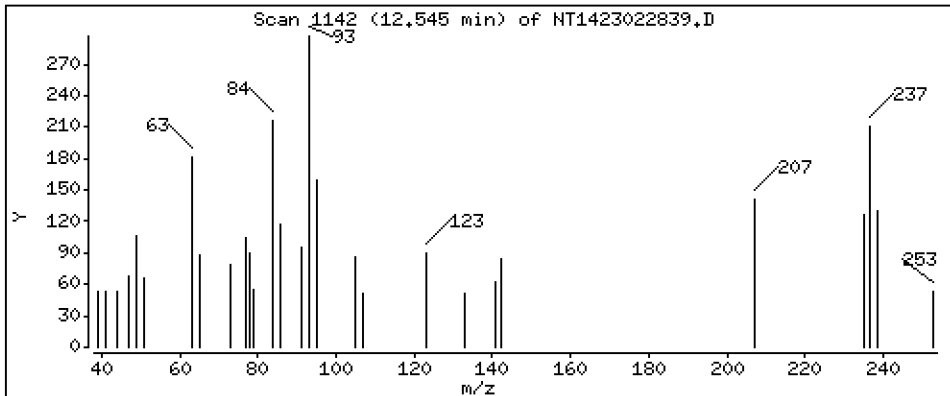
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,01142 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

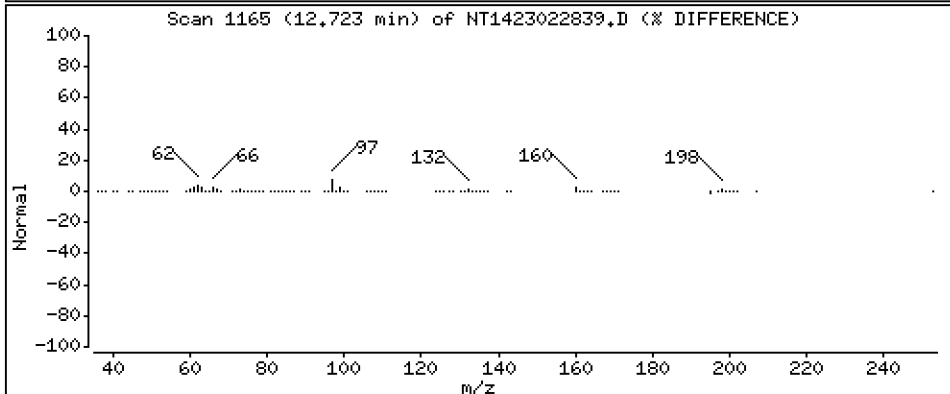
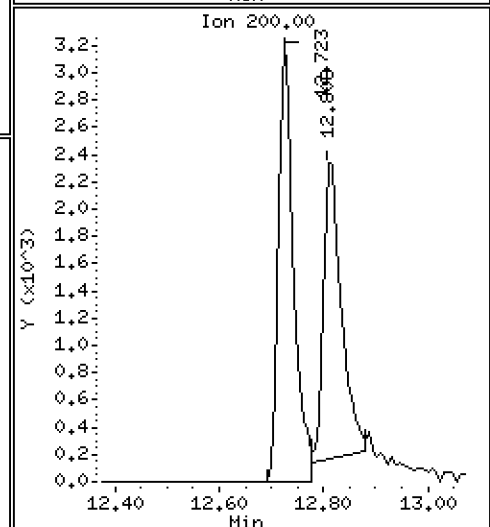
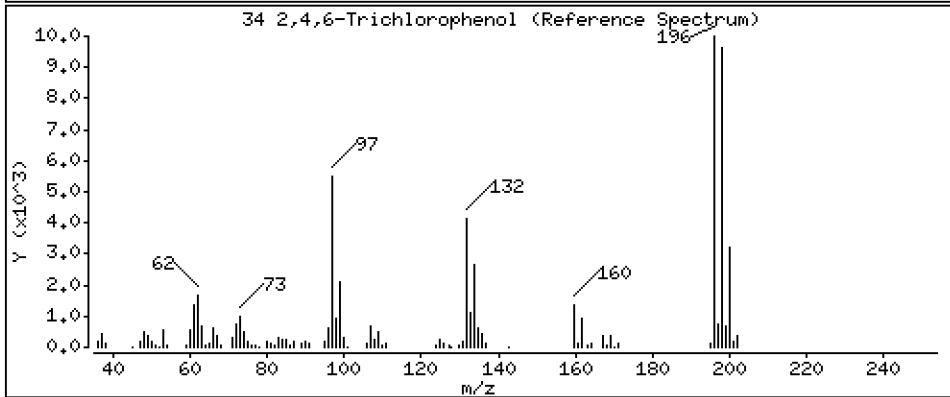
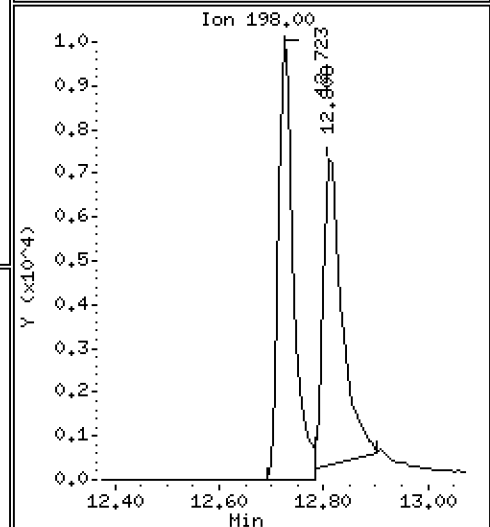
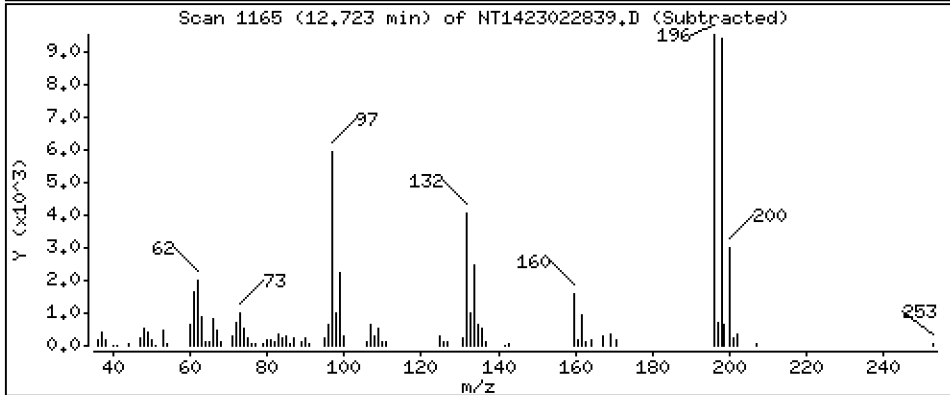
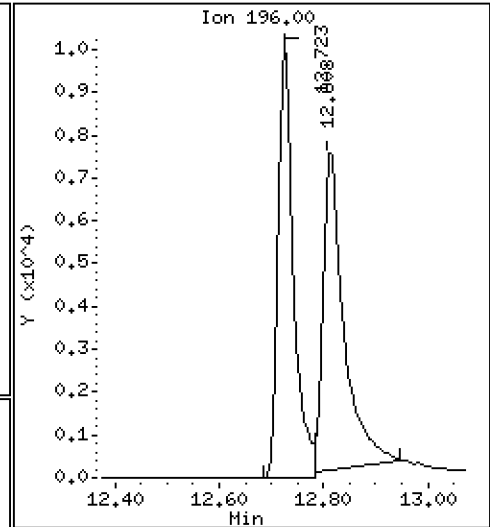
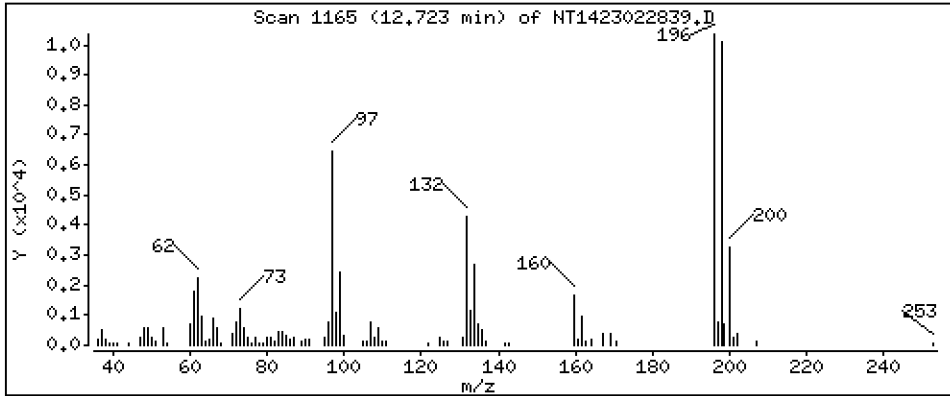
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

34 2,4,6-Trichlorophenol

Concentration: 0.8898 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

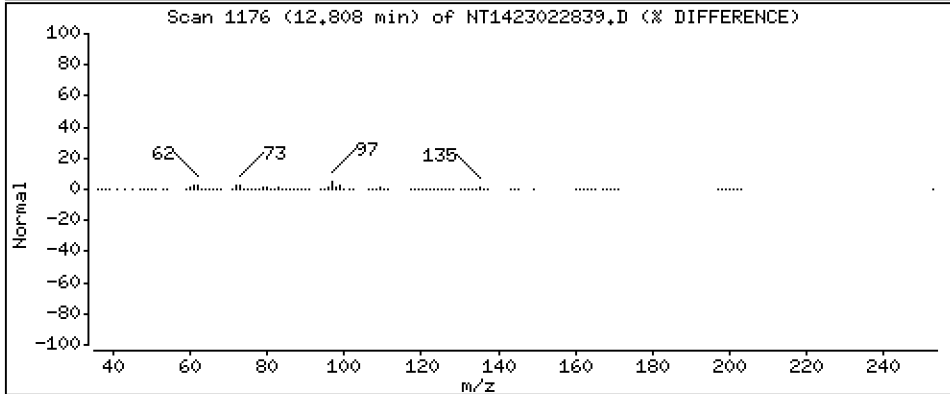
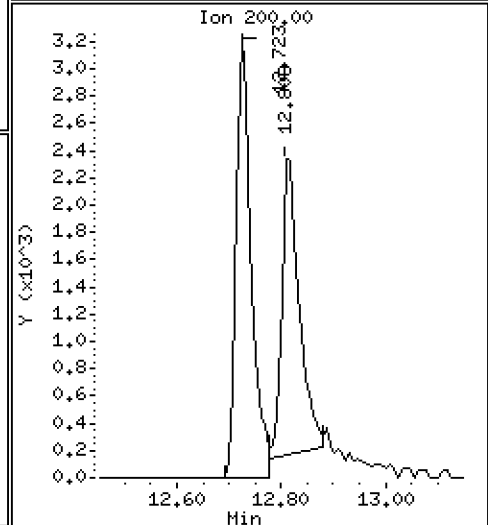
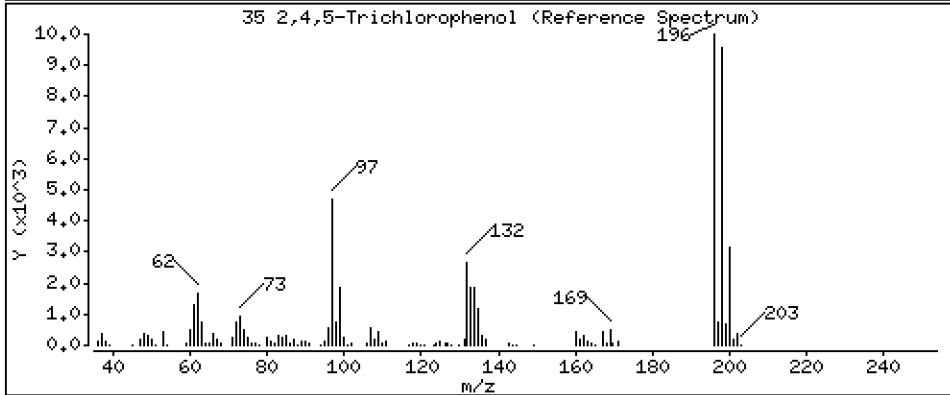
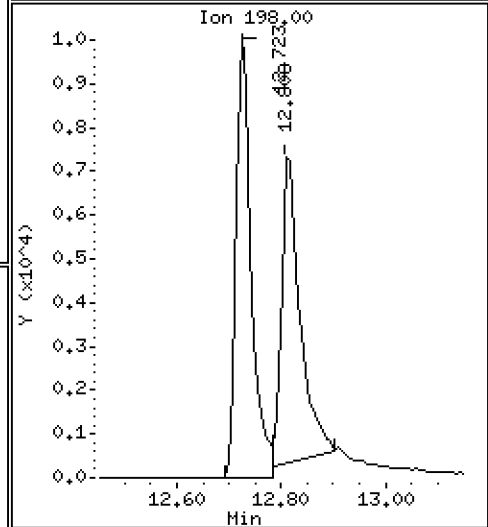
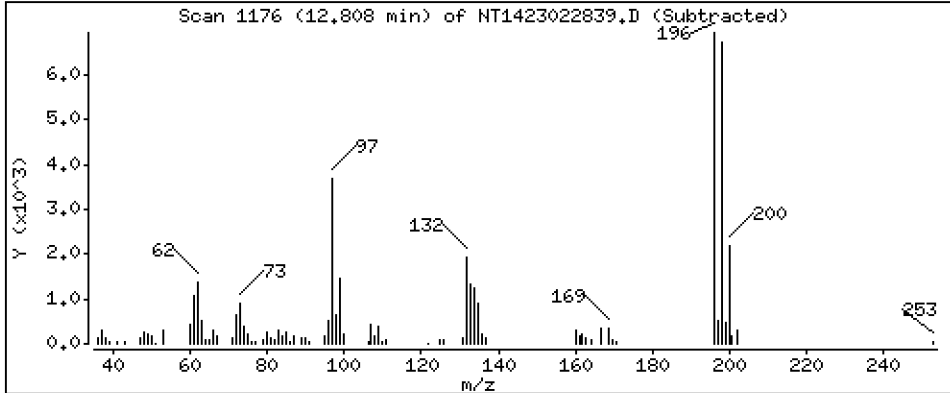
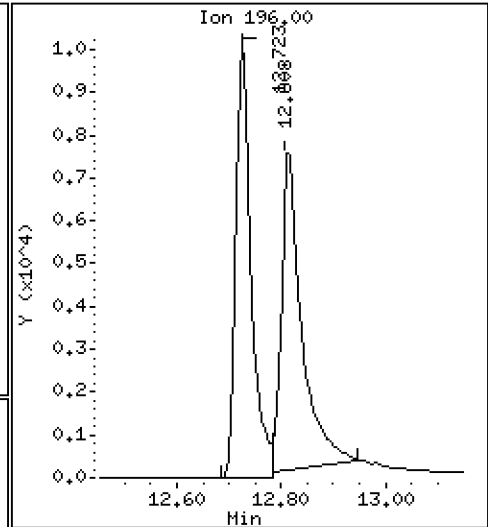
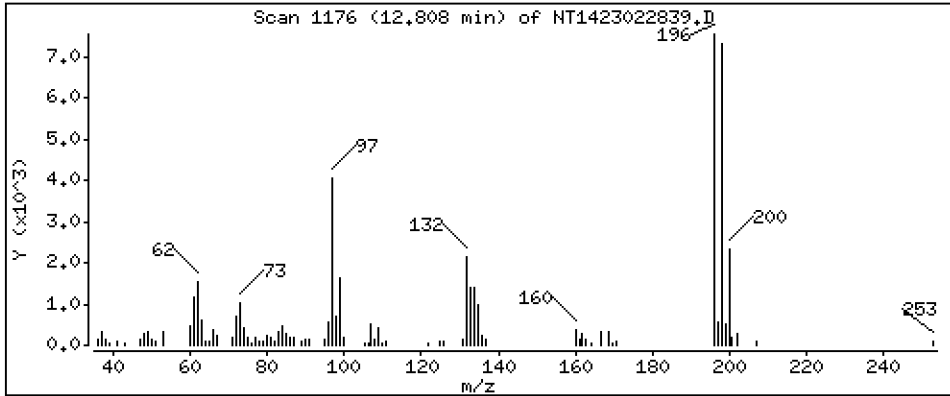
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,8232 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

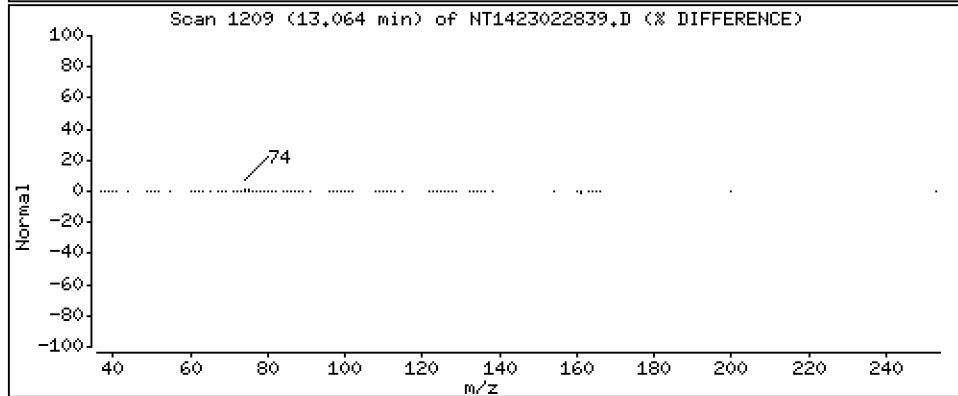
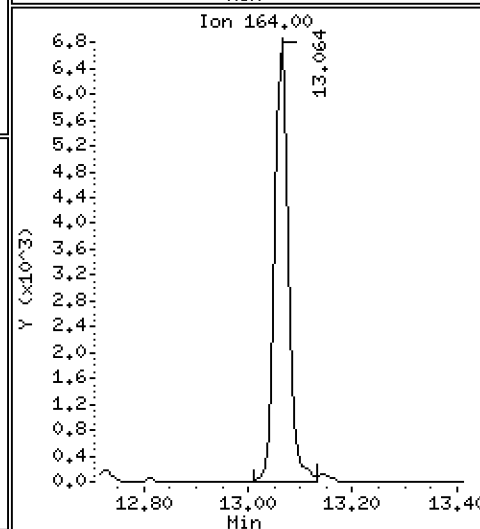
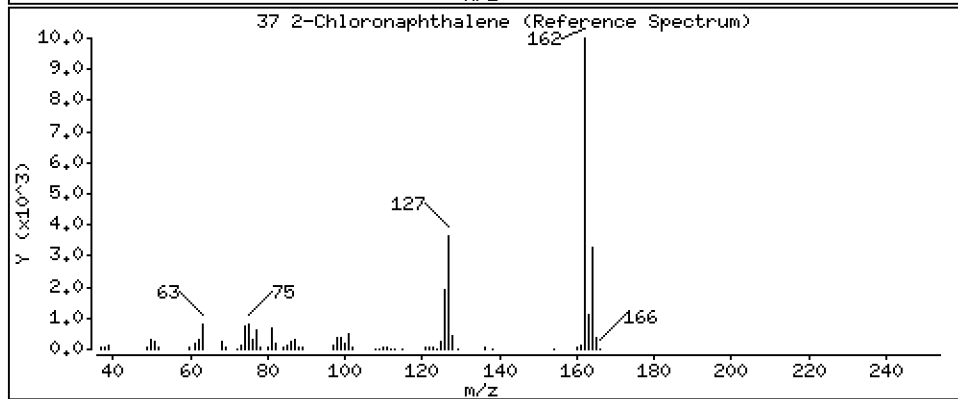
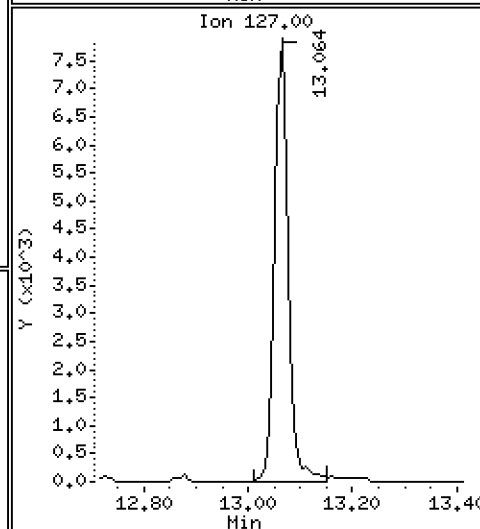
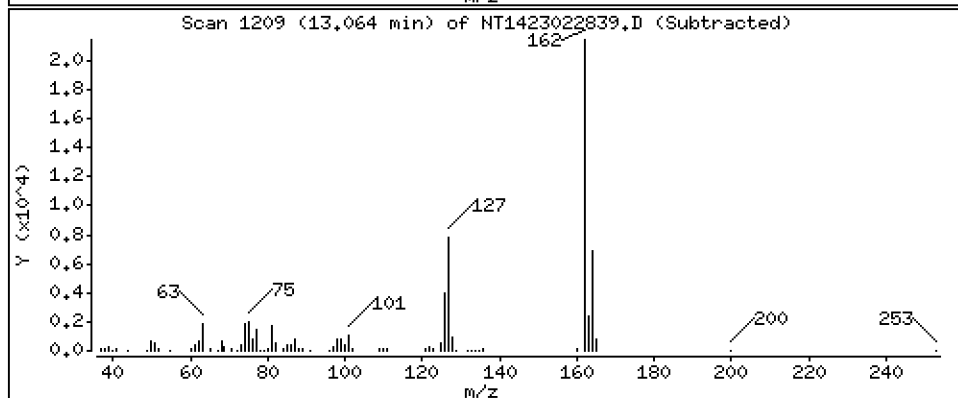
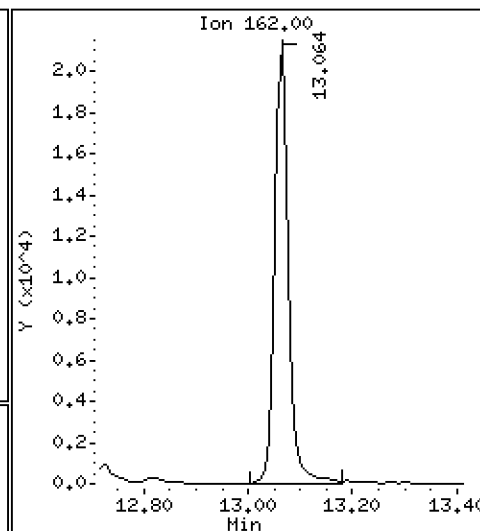
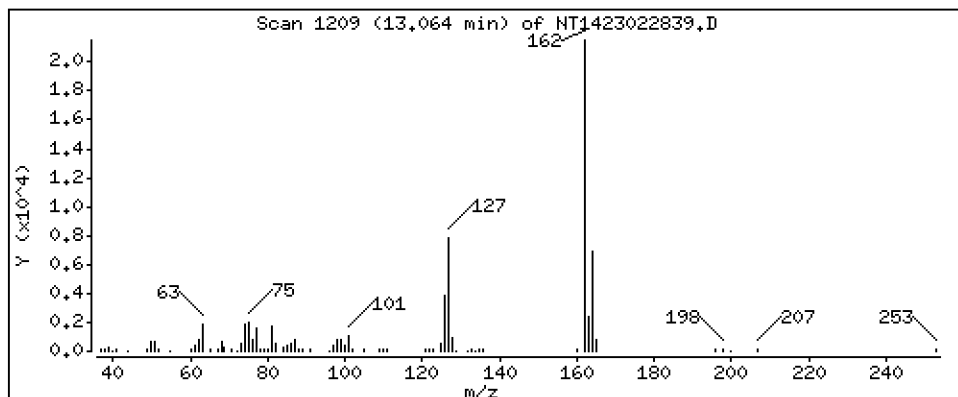
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,5120 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

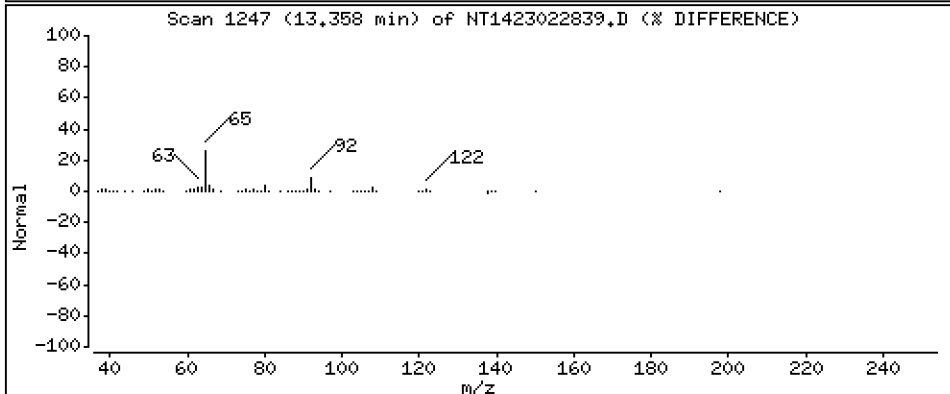
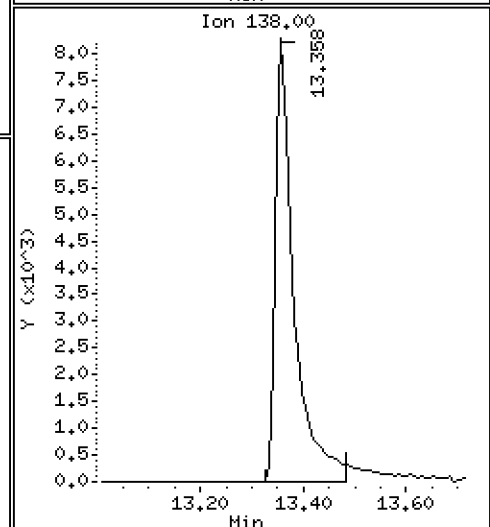
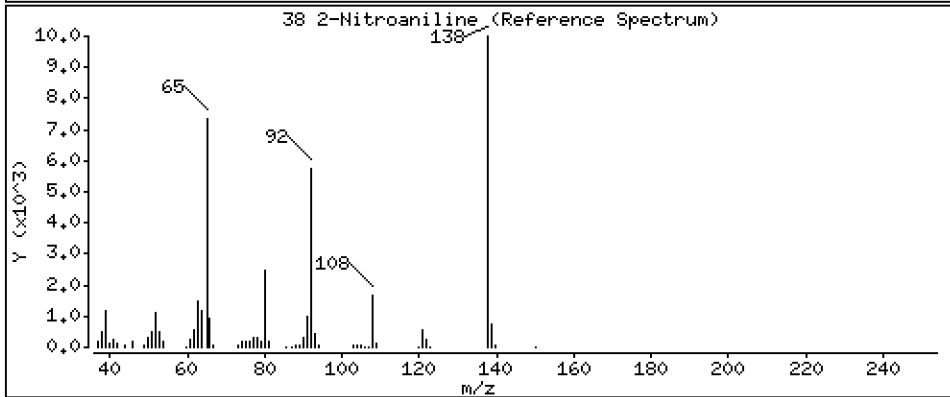
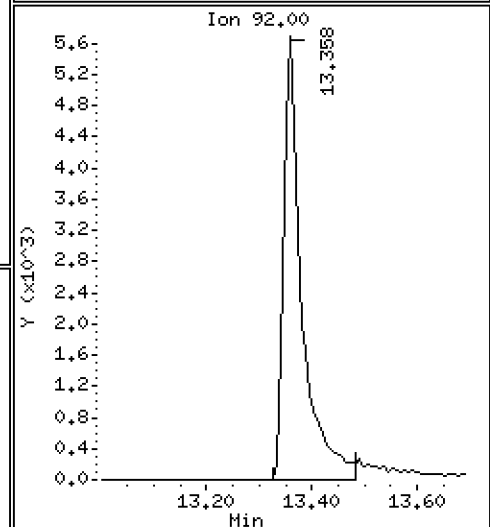
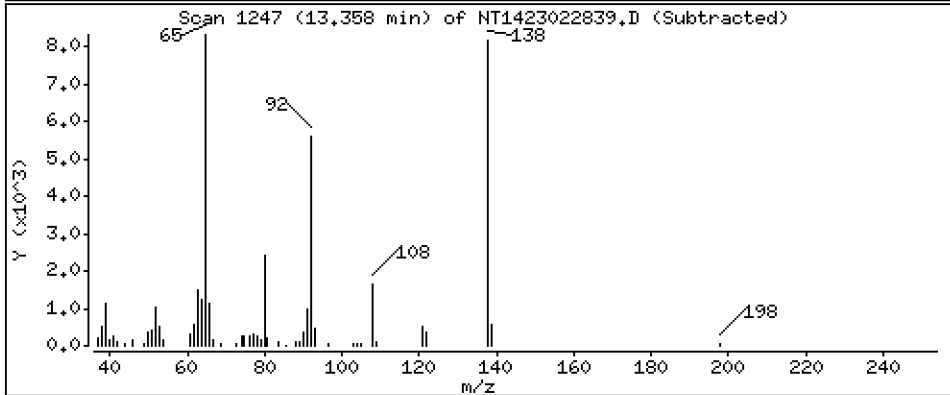
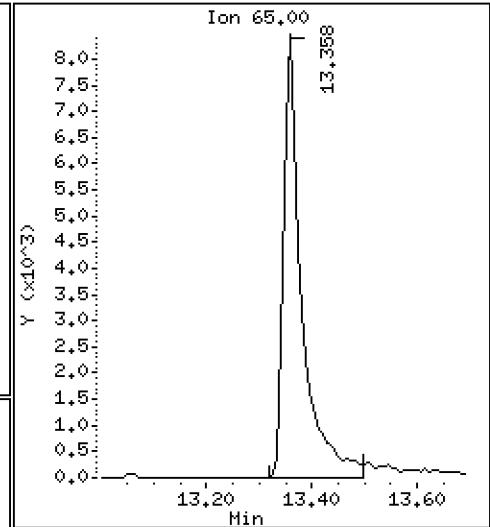
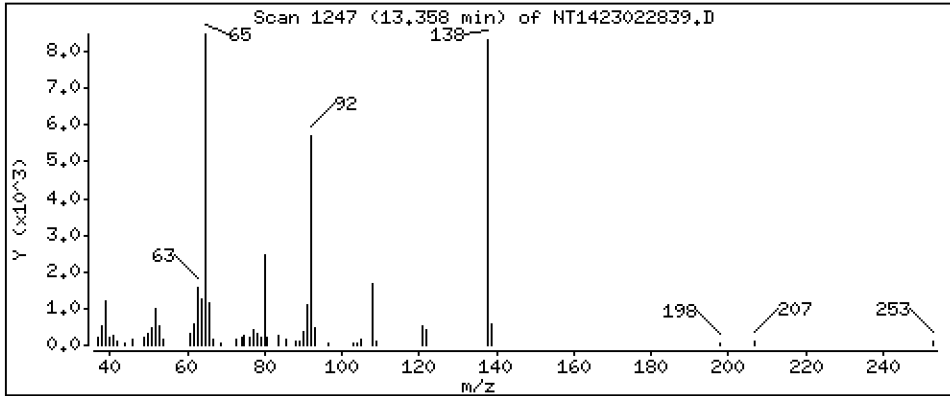
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 1,070 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

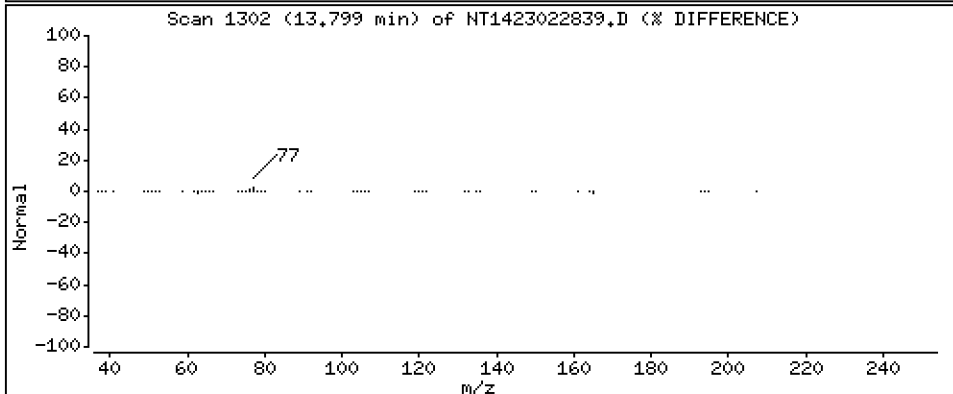
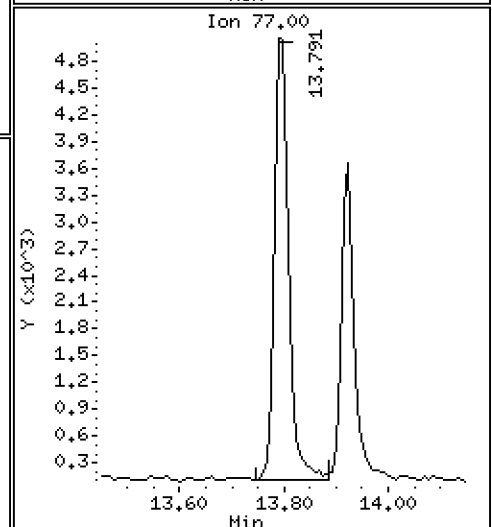
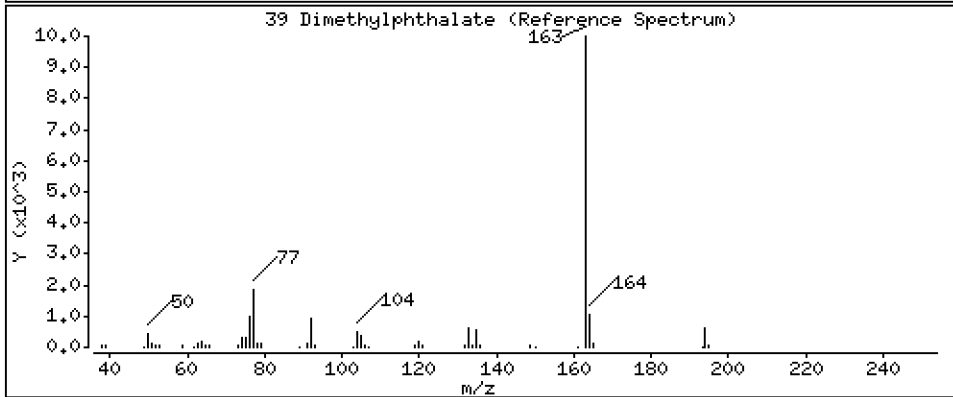
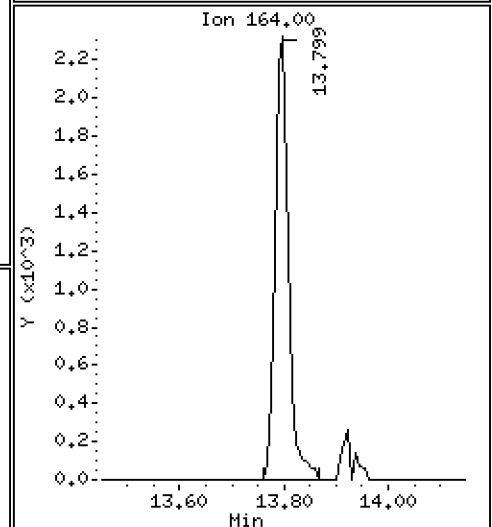
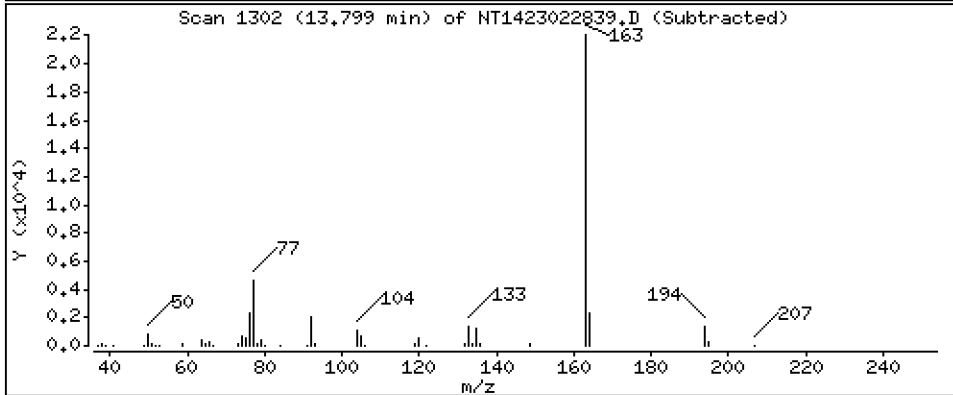
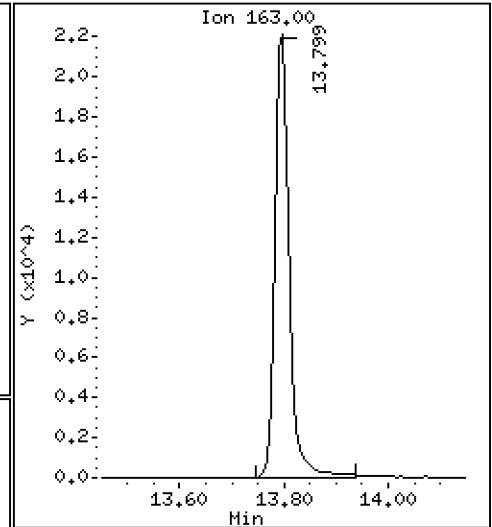
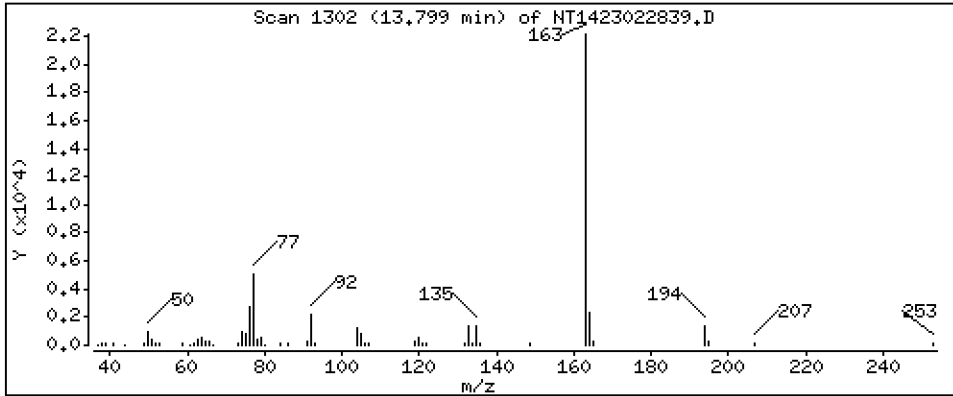
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,5531 ug/mL





Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

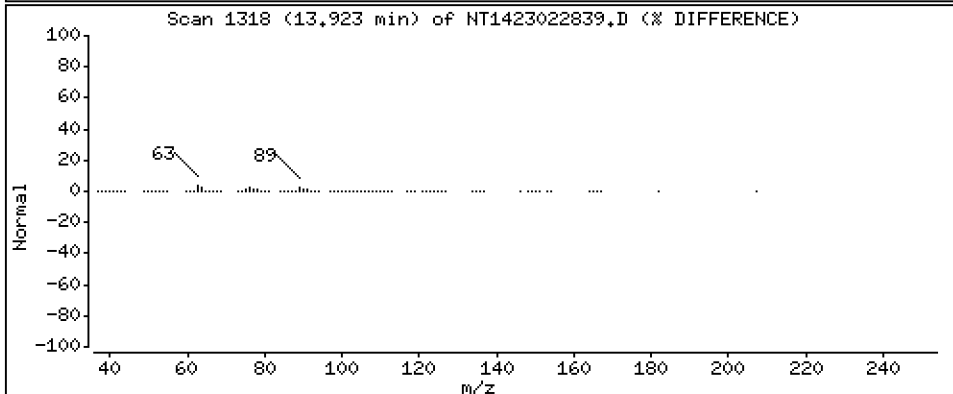
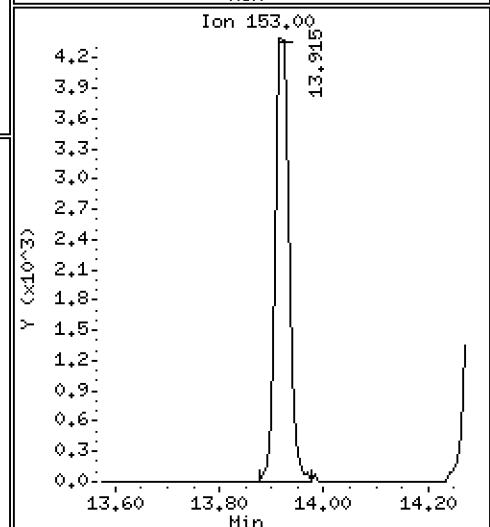
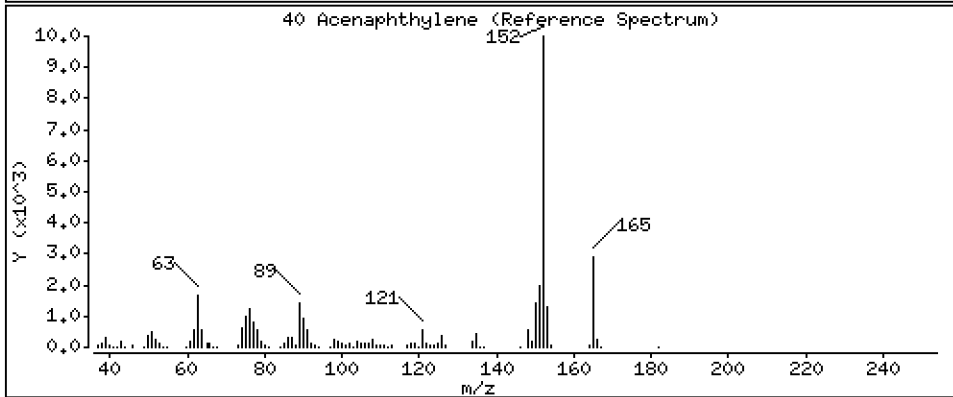
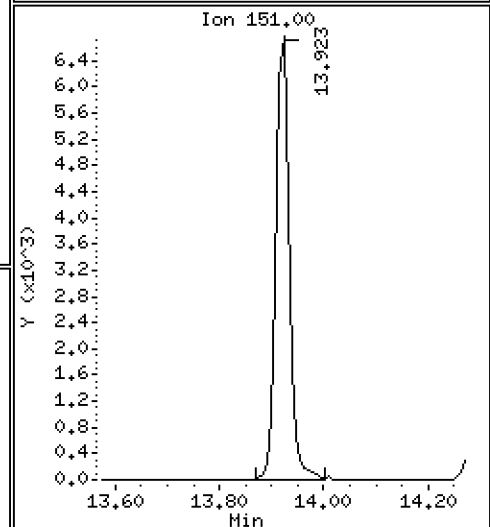
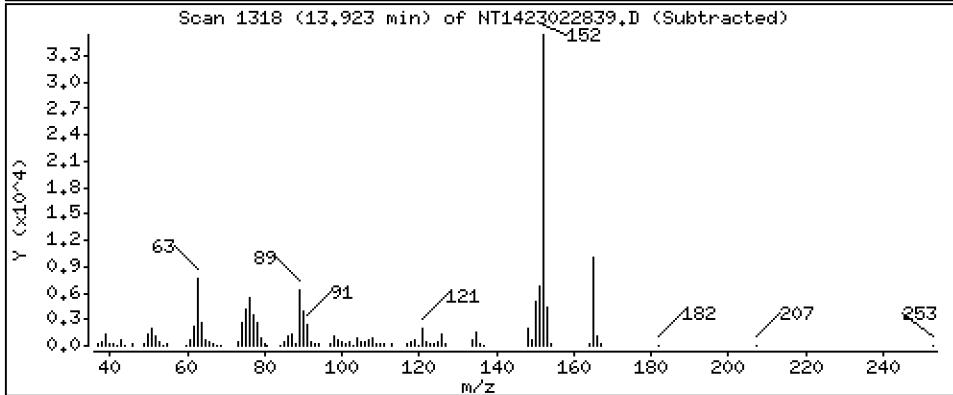
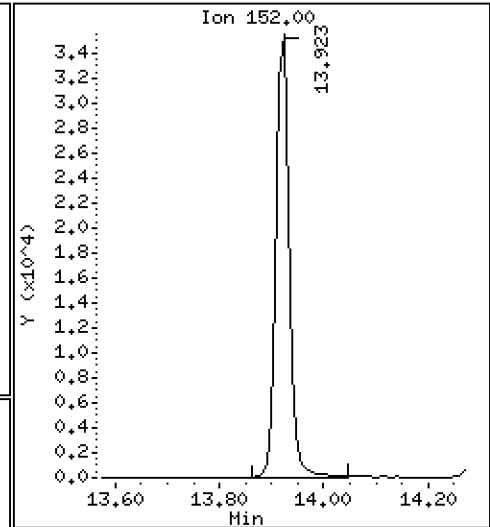
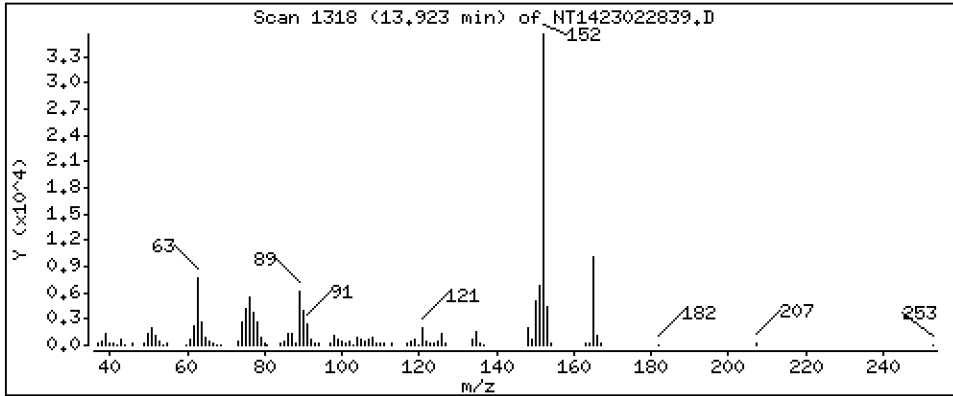
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,5614 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

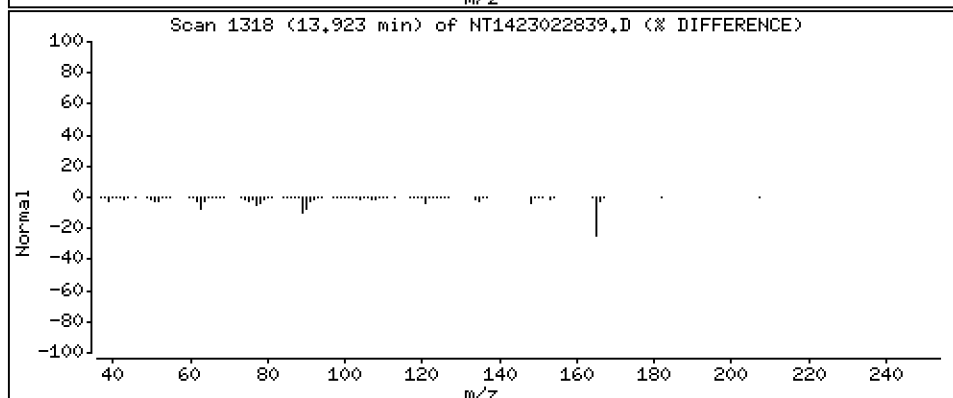
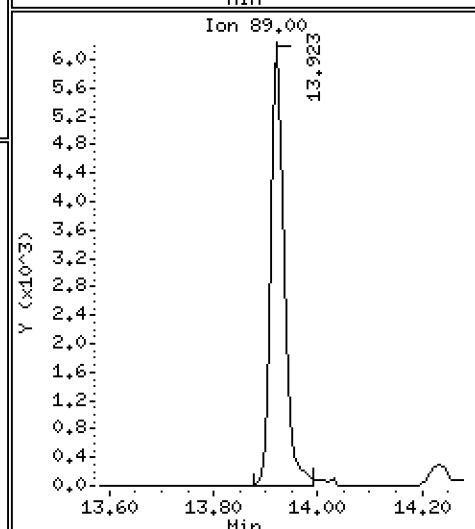
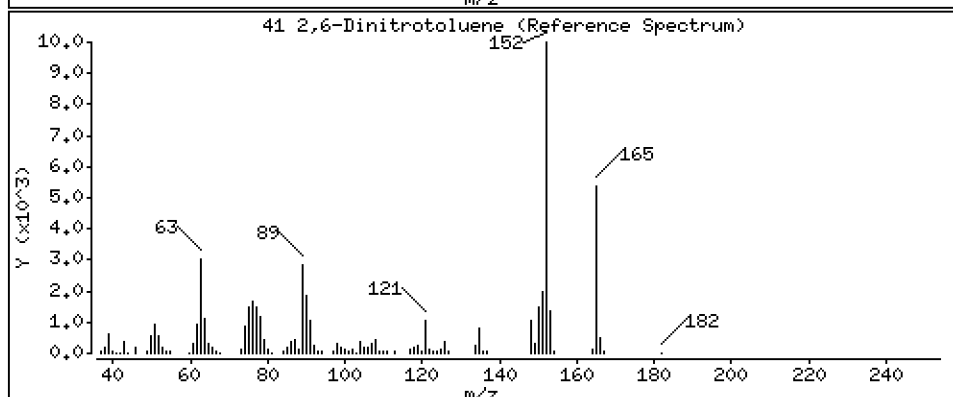
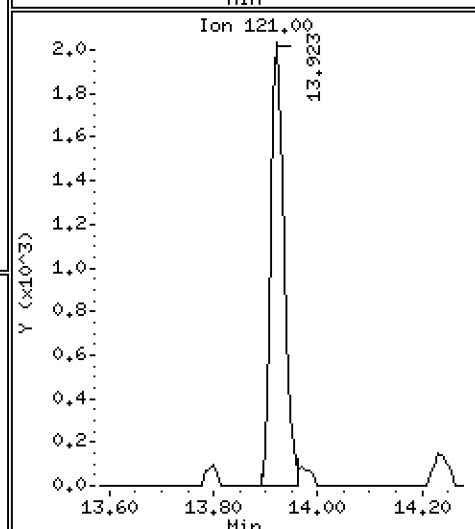
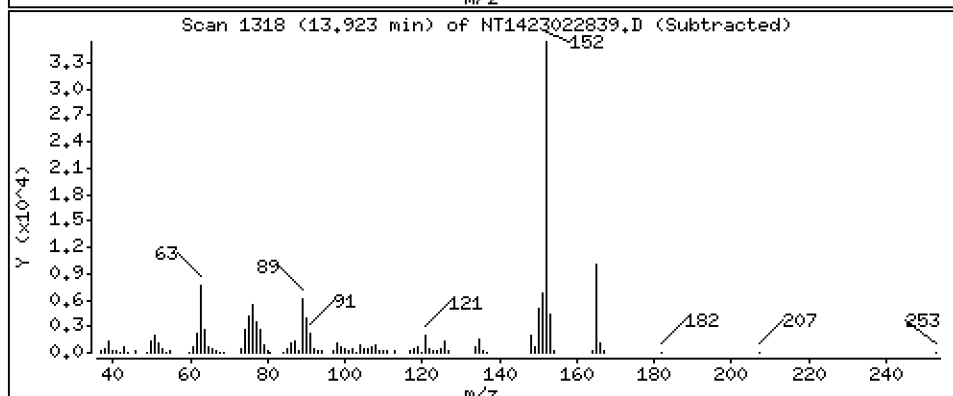
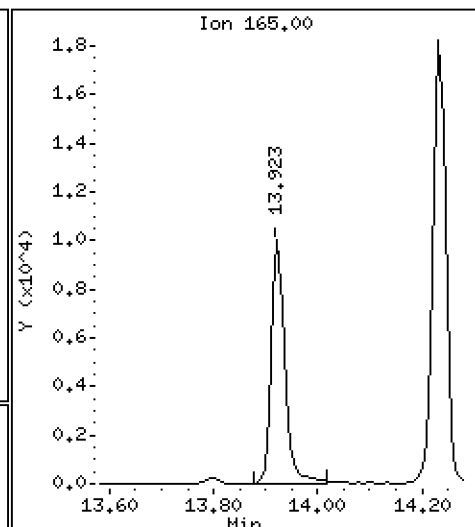
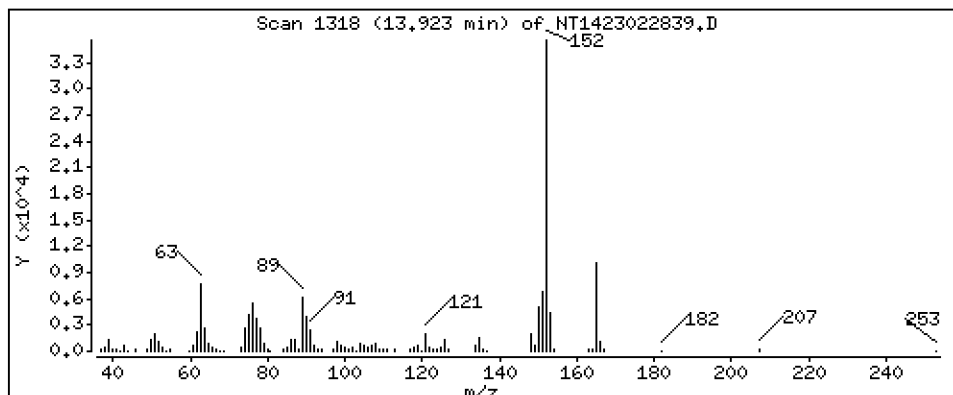
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 1.004 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

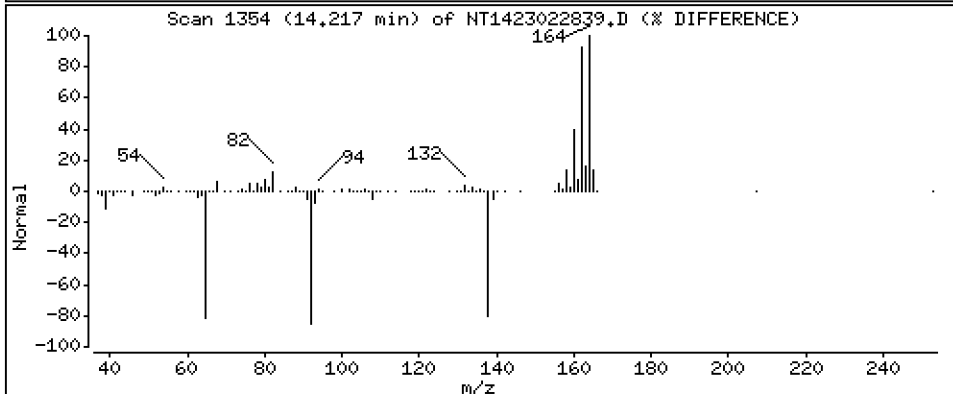
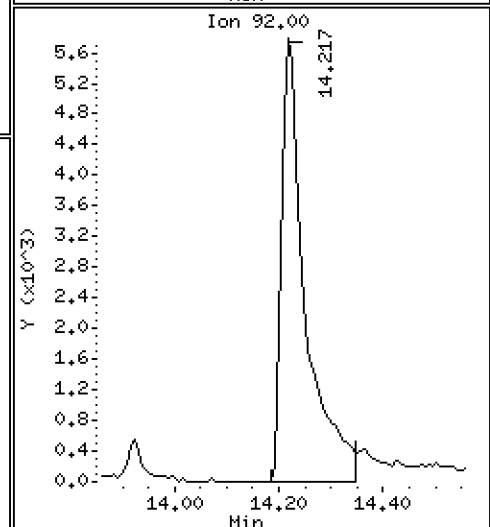
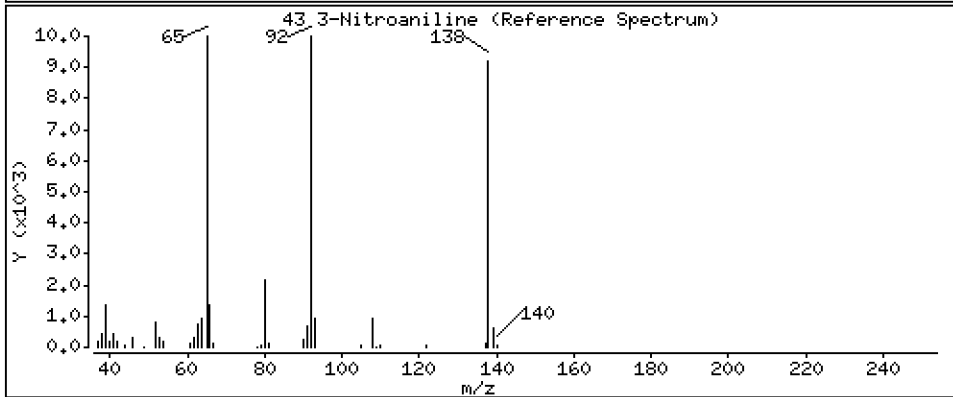
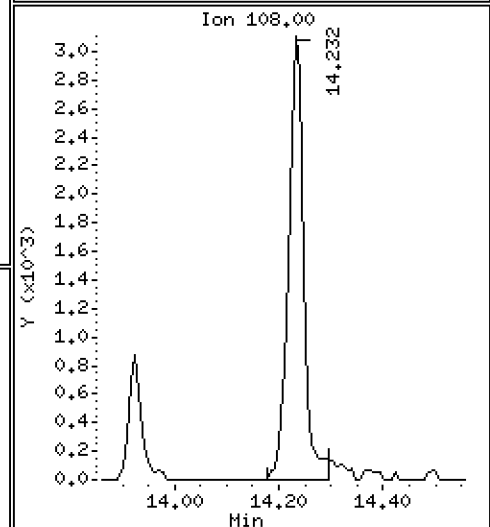
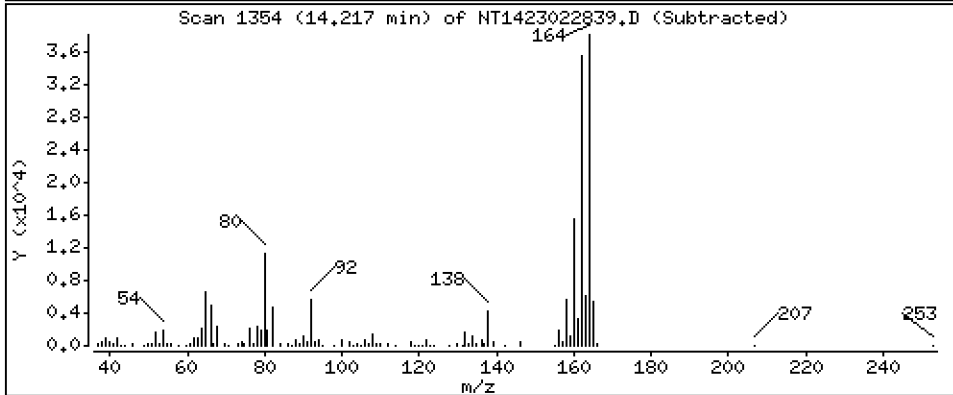
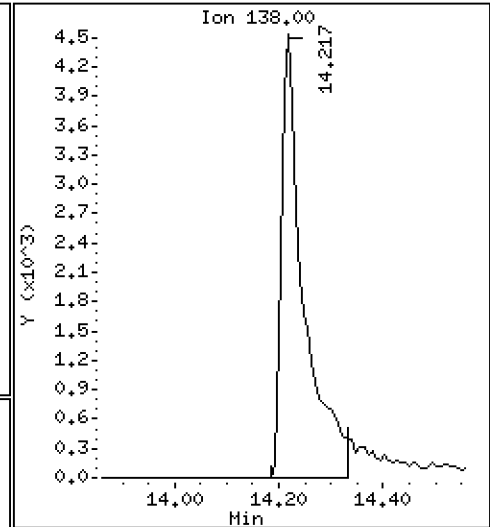
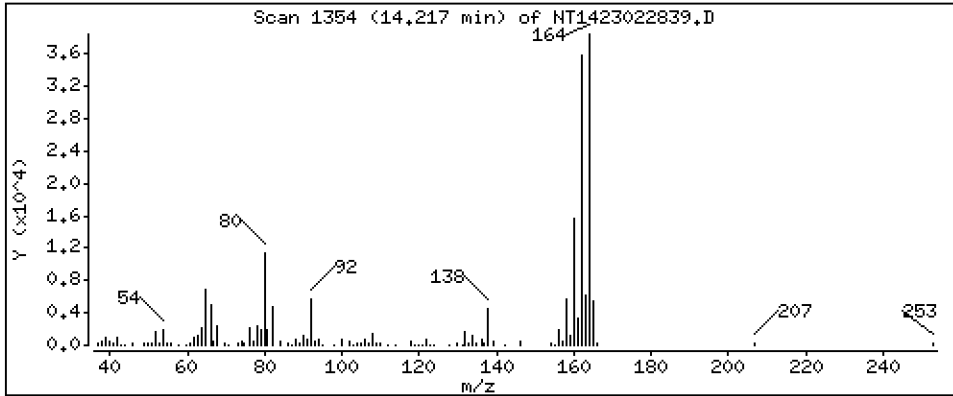
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,7629 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

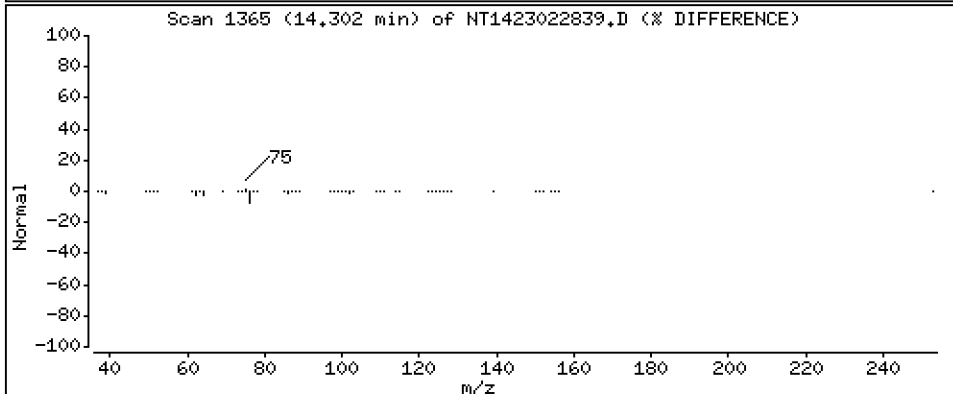
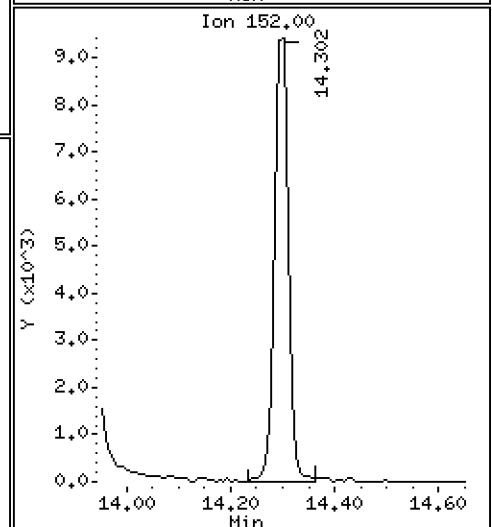
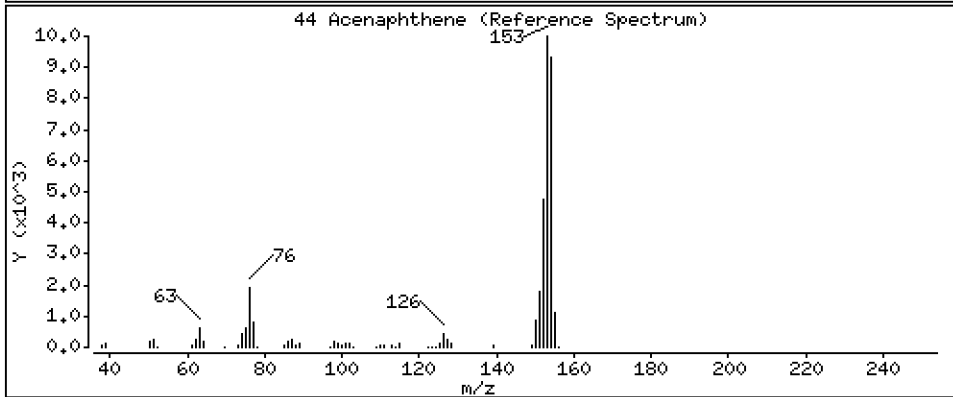
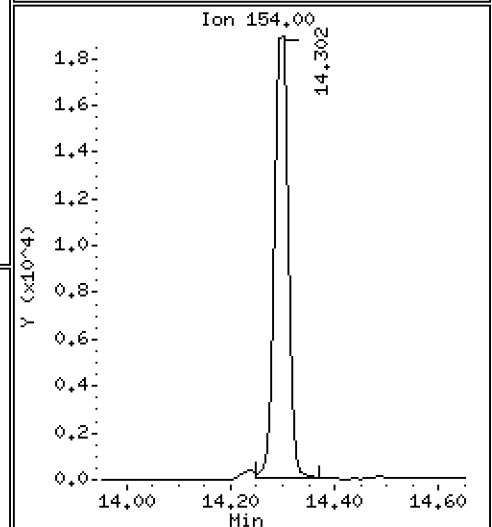
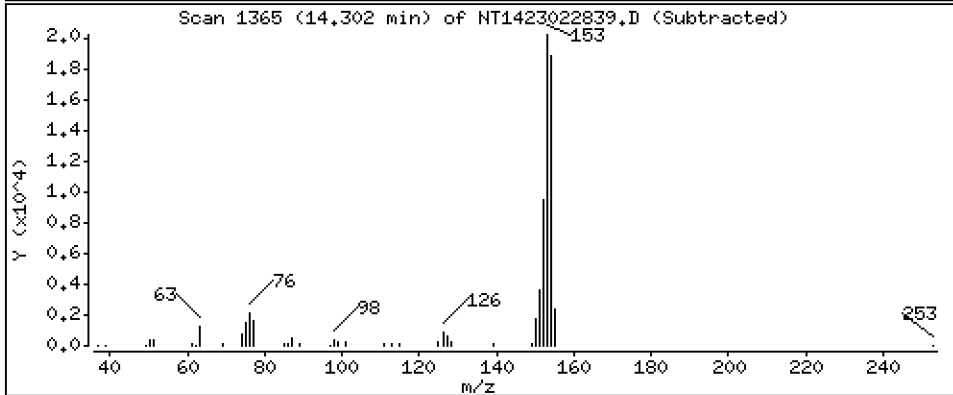
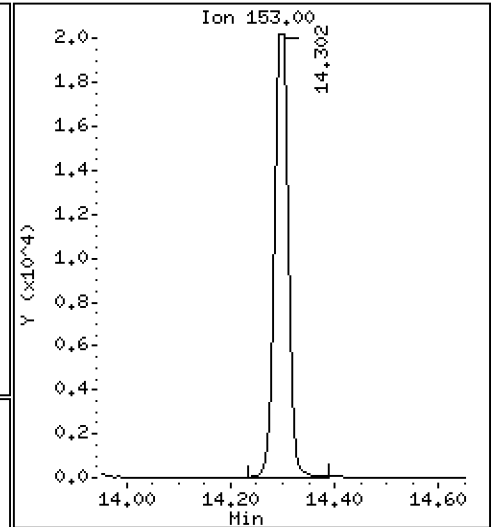
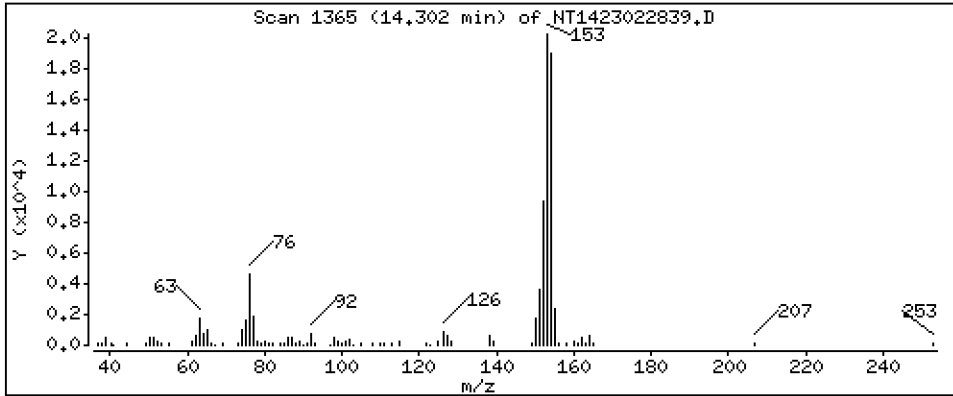
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,5197 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

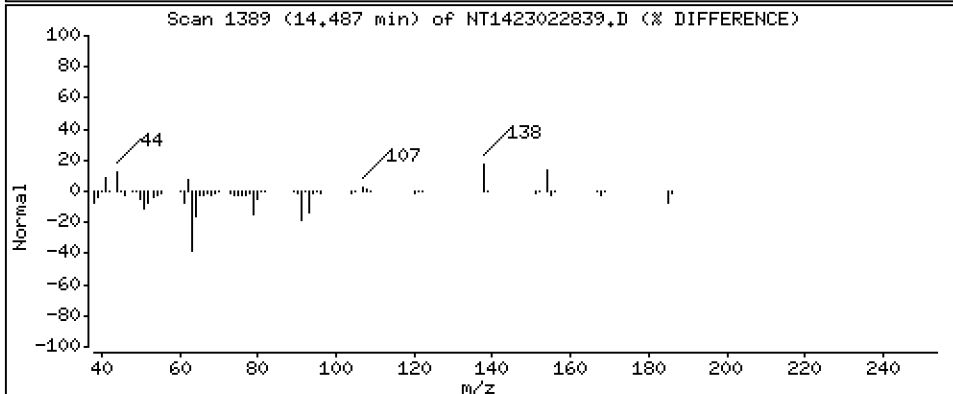
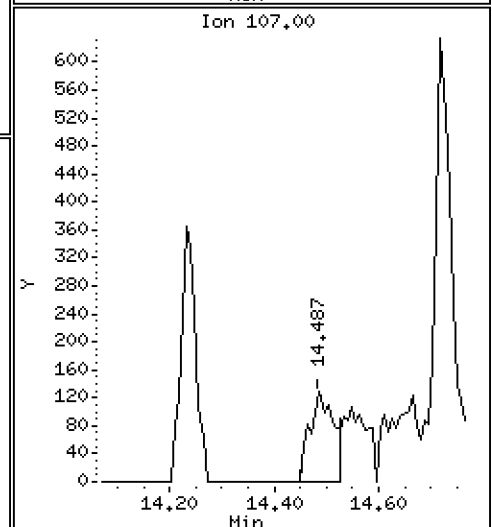
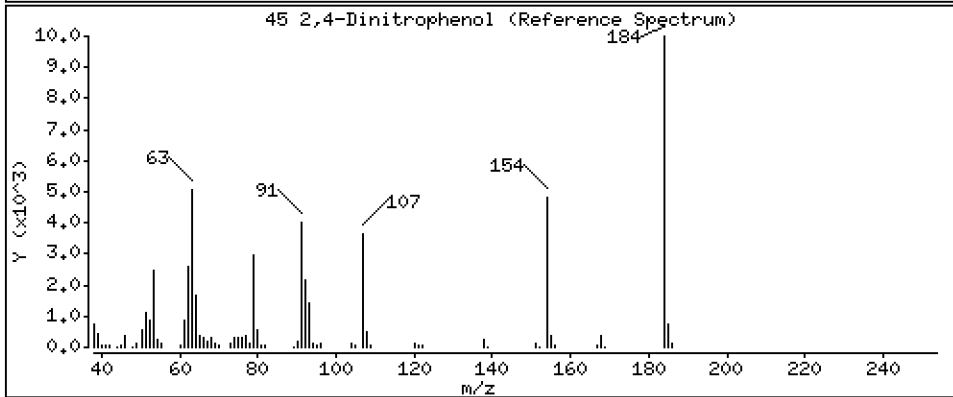
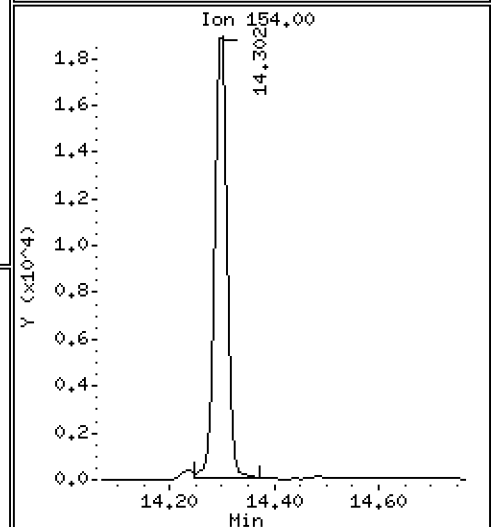
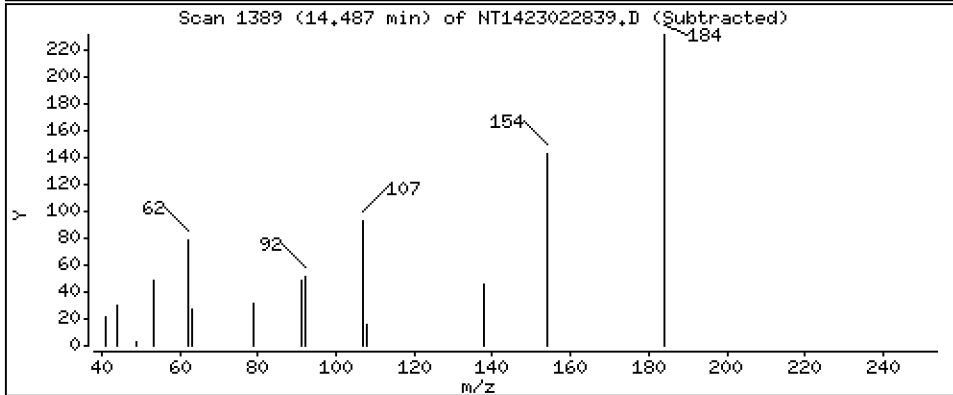
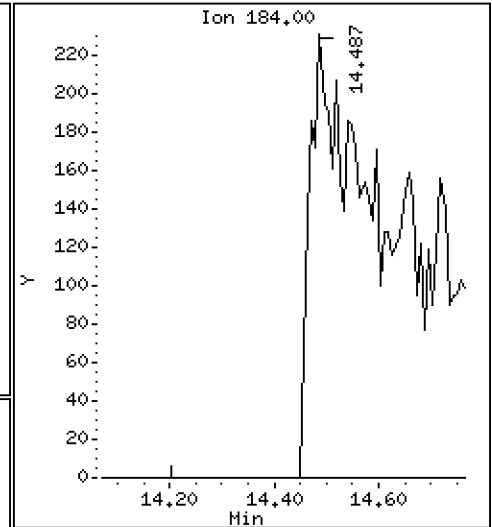
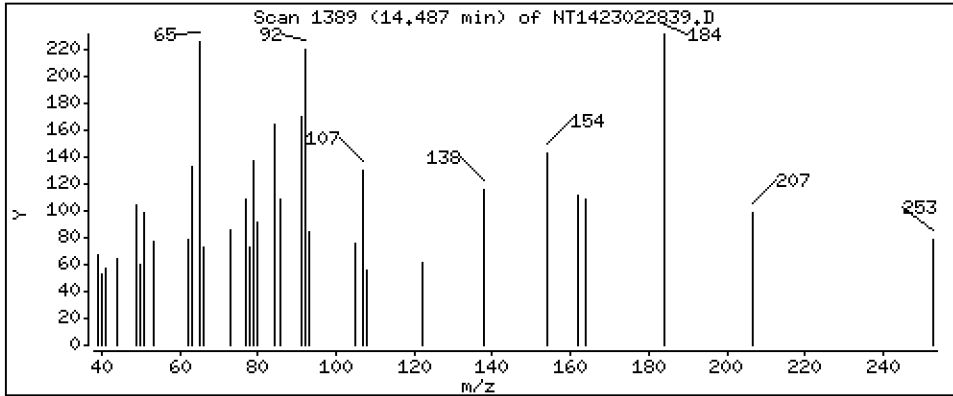
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,3318 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

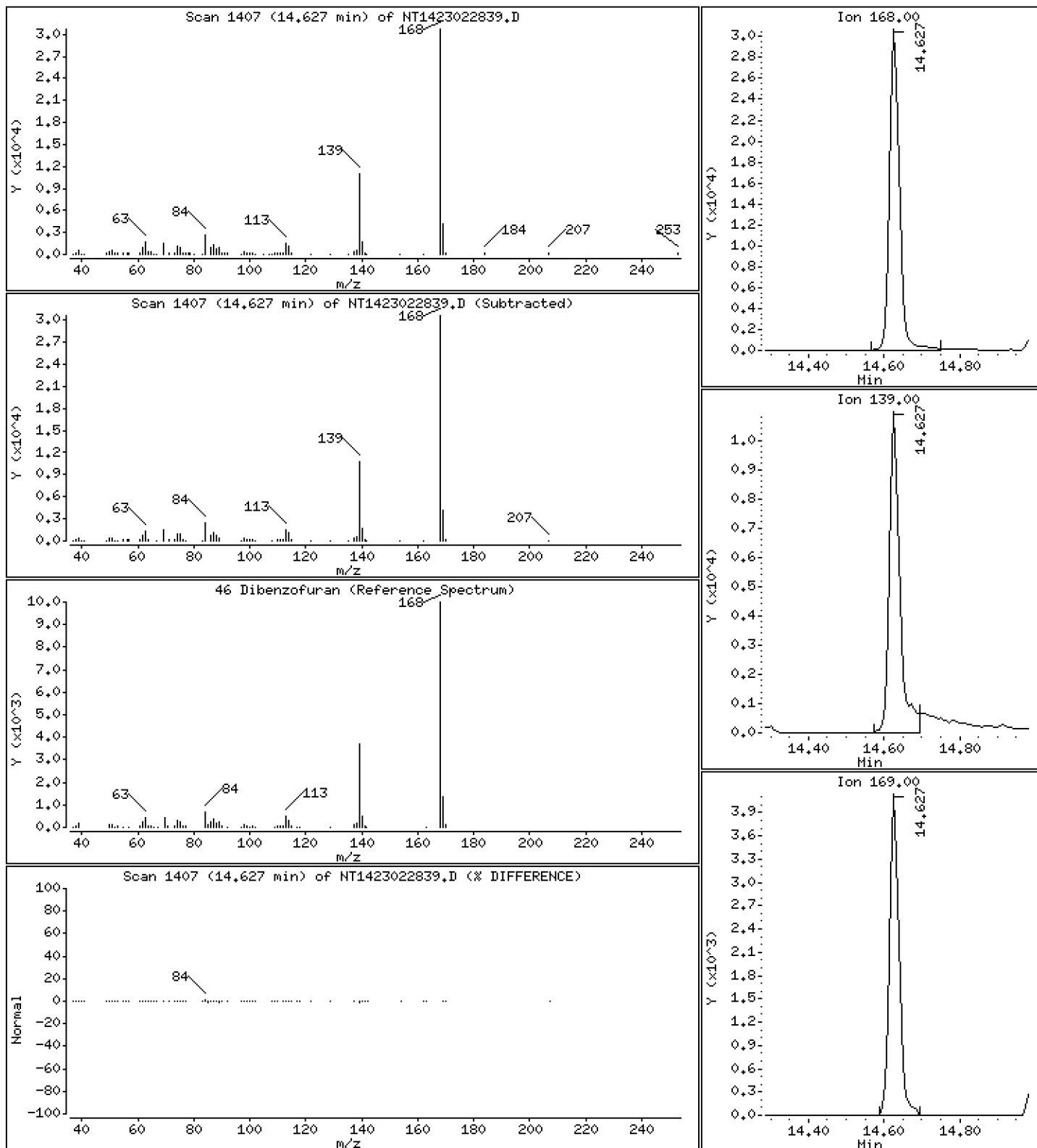
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,5026 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

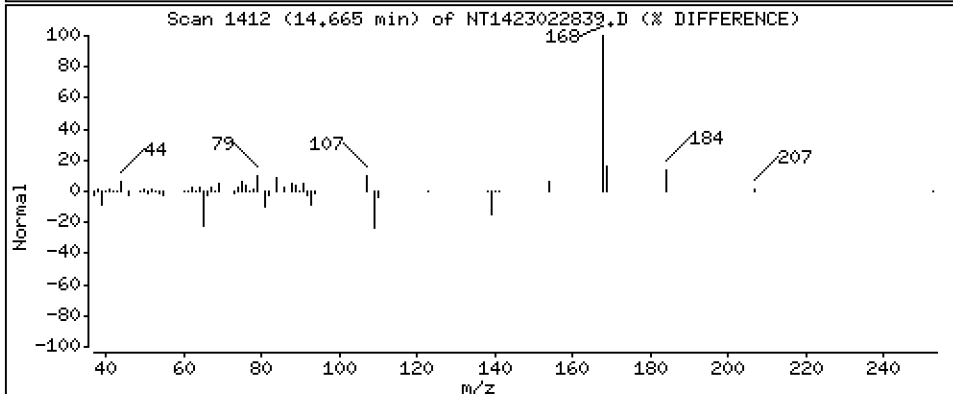
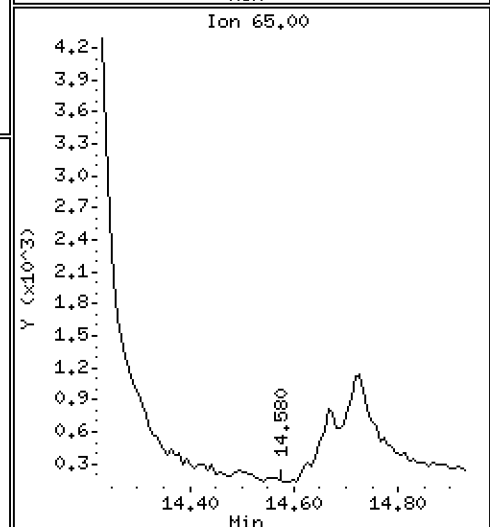
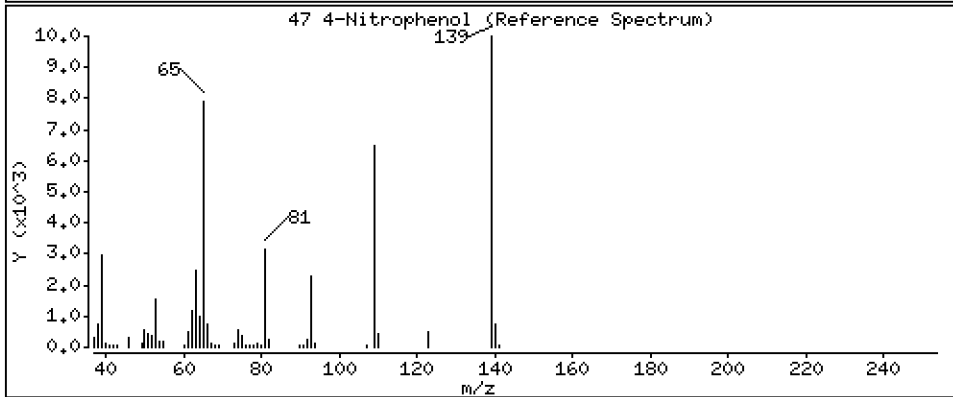
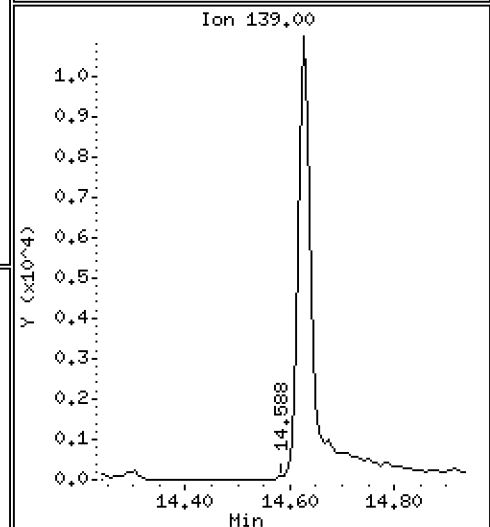
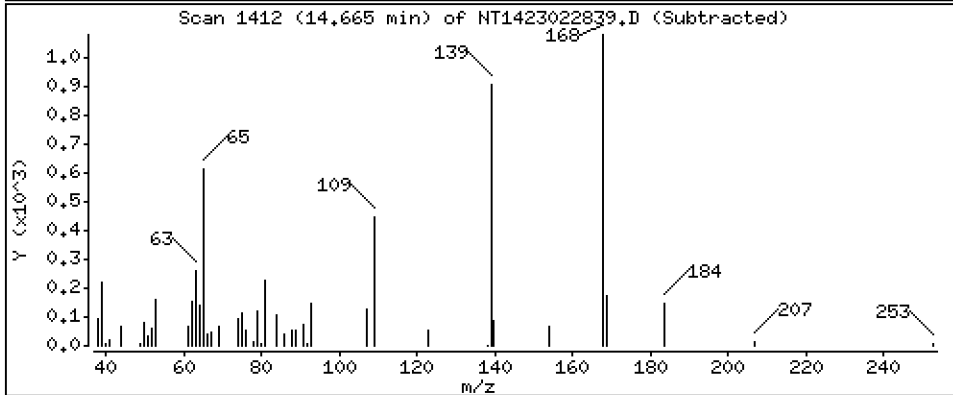
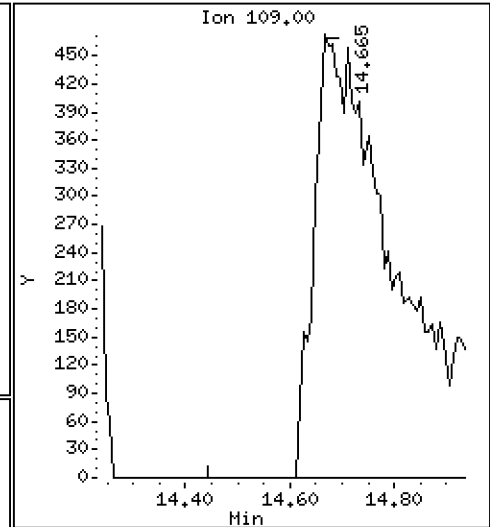
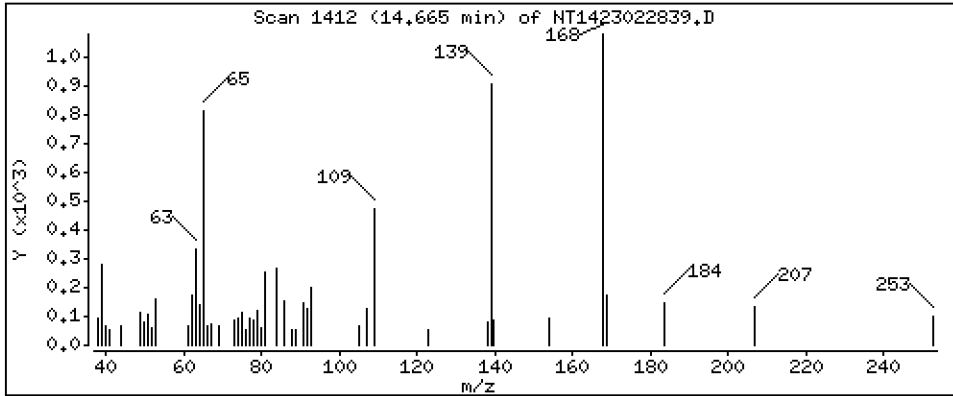
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,7739 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

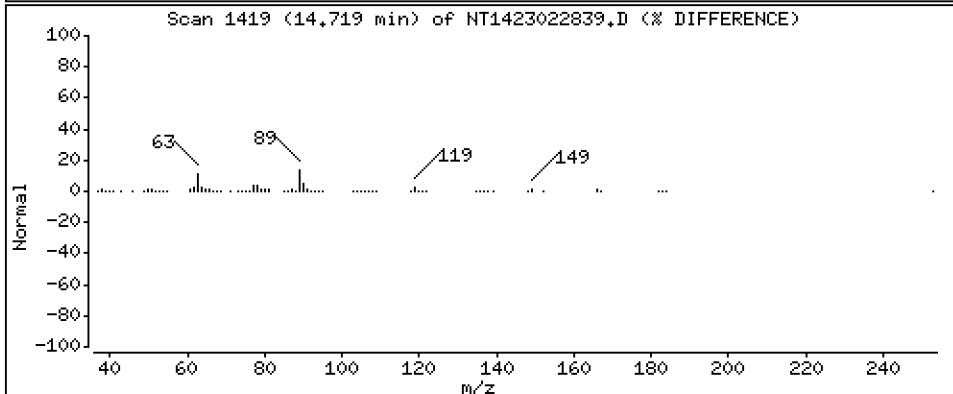
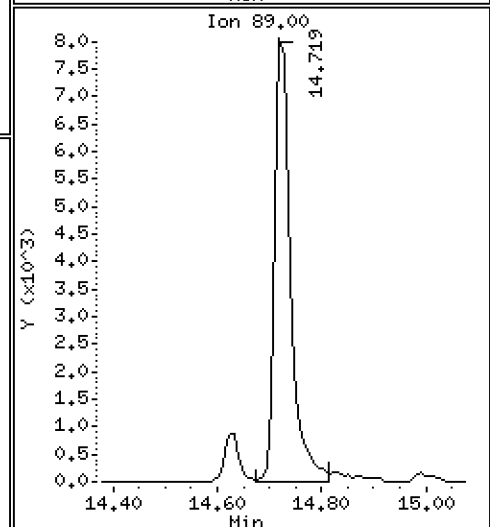
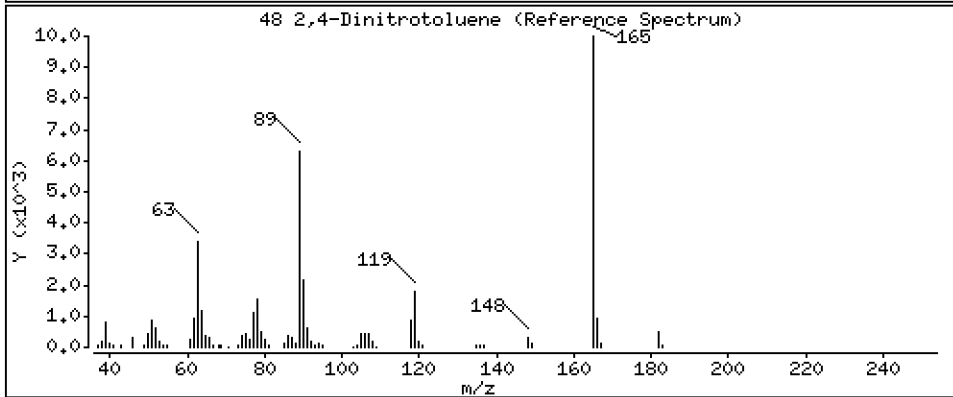
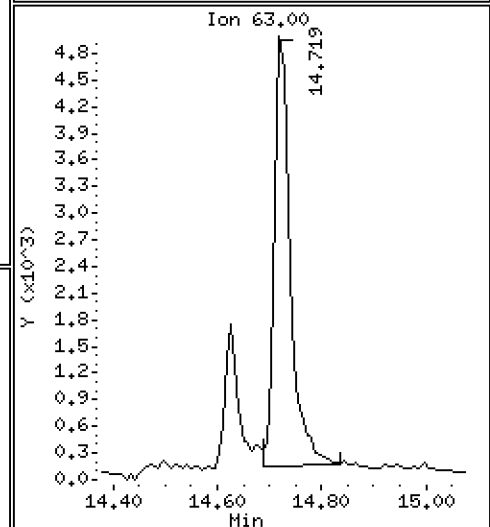
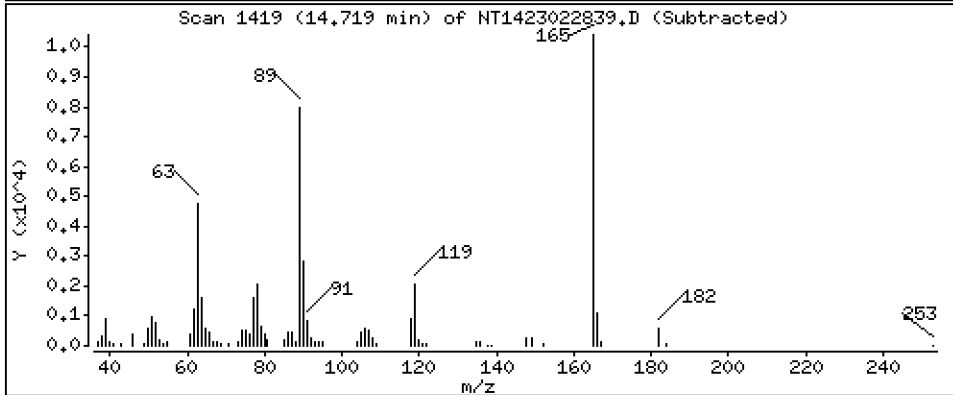
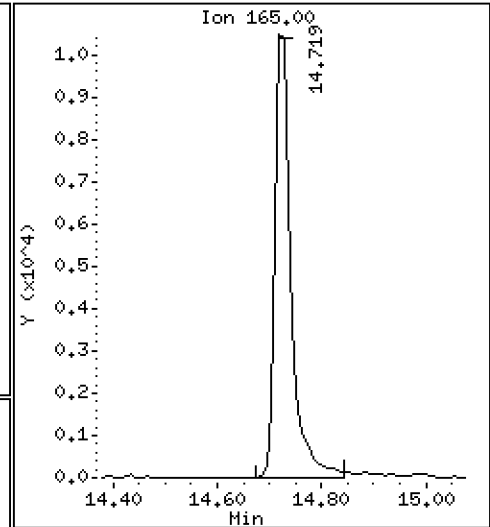
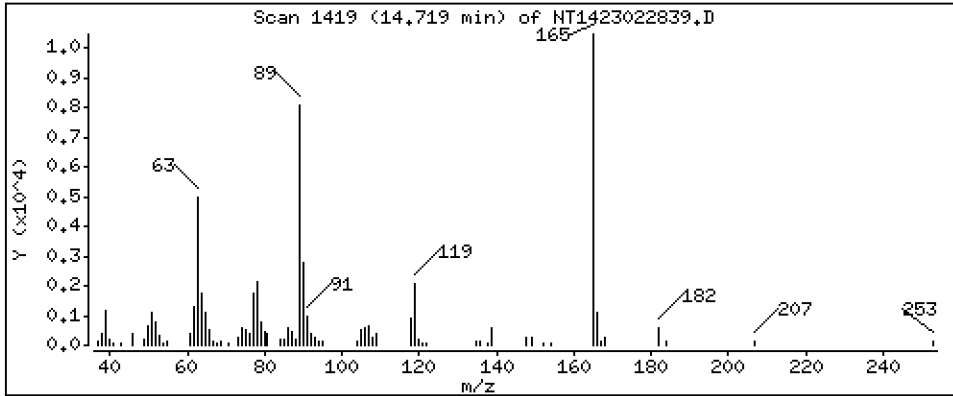
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.8778 ug/mL





Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

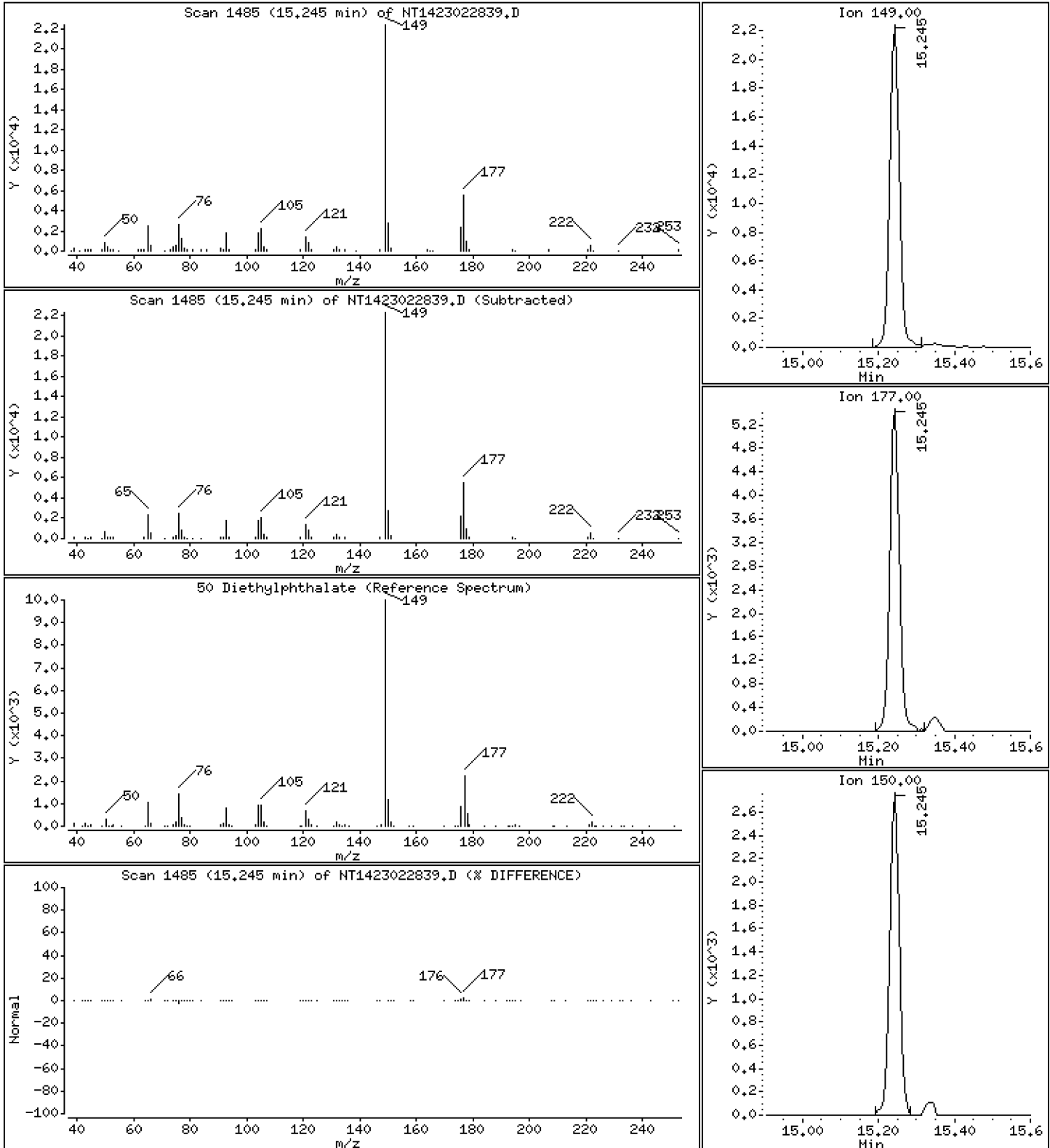
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,5507 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

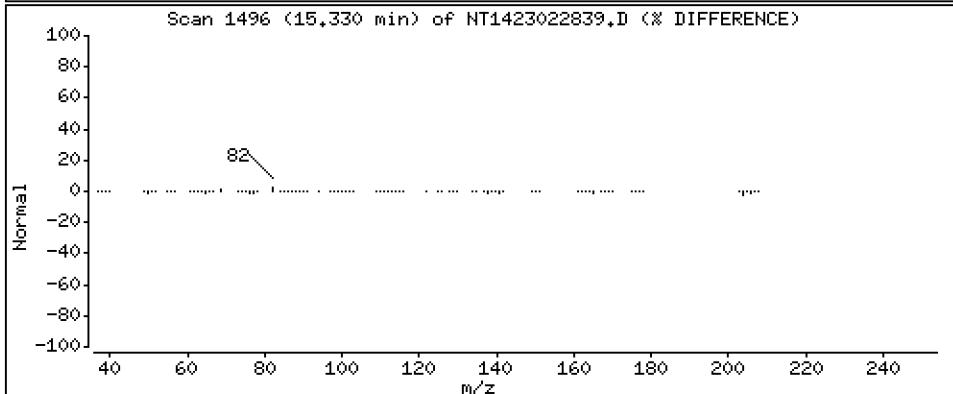
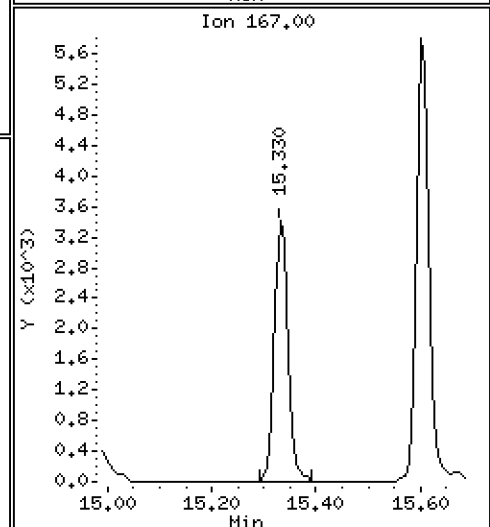
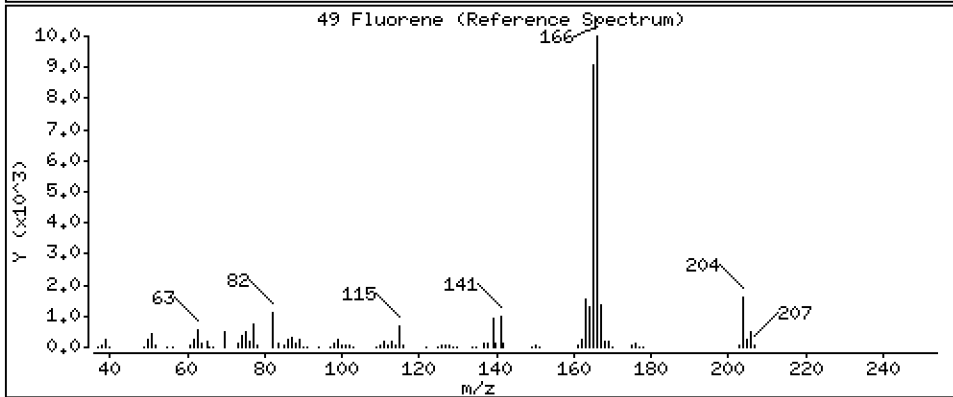
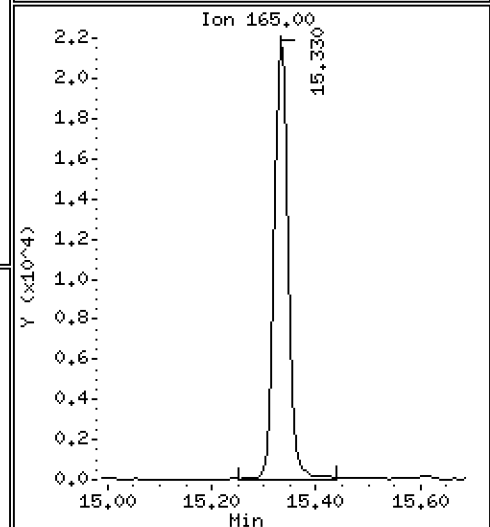
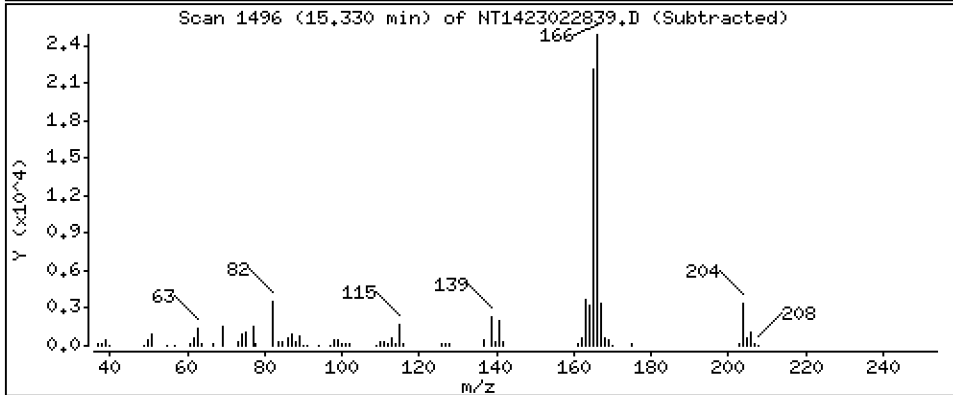
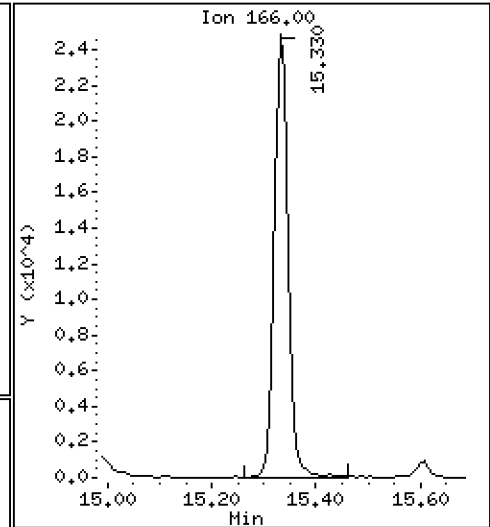
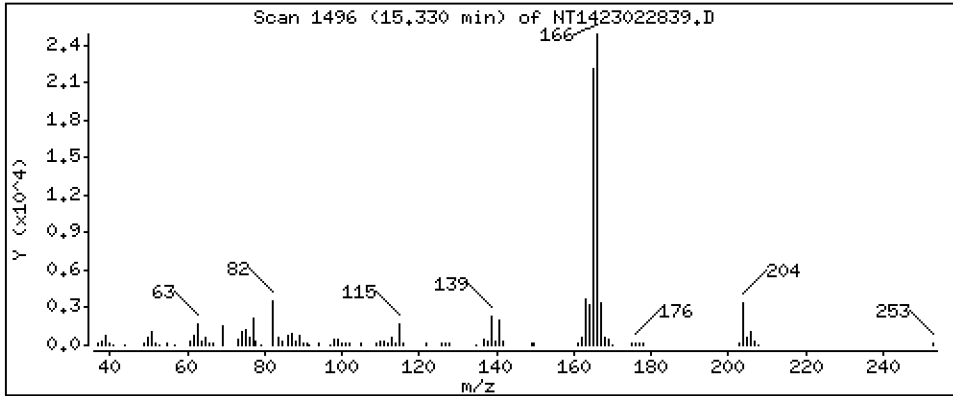
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,5207 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

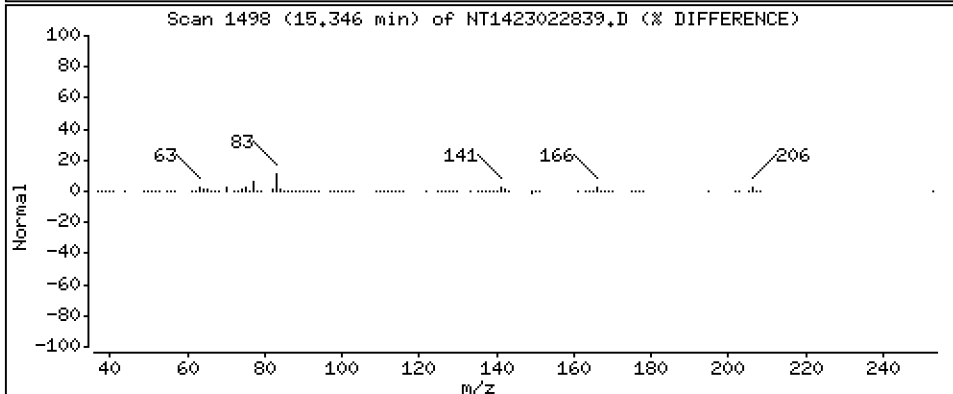
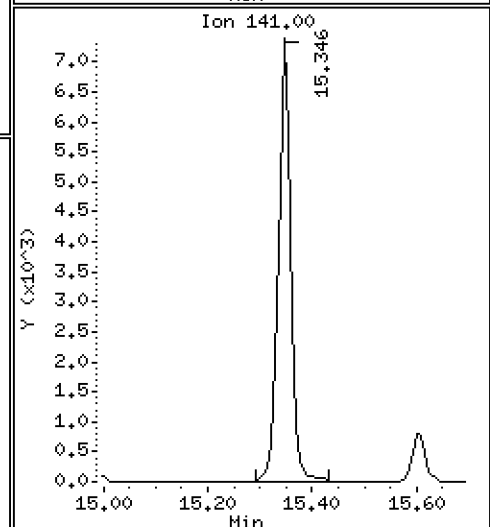
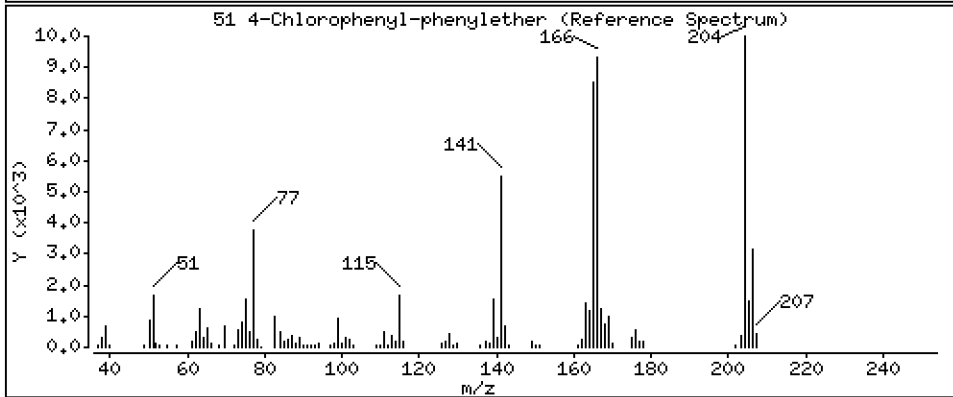
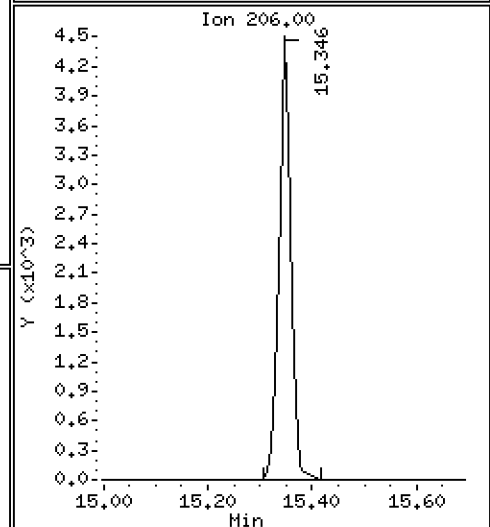
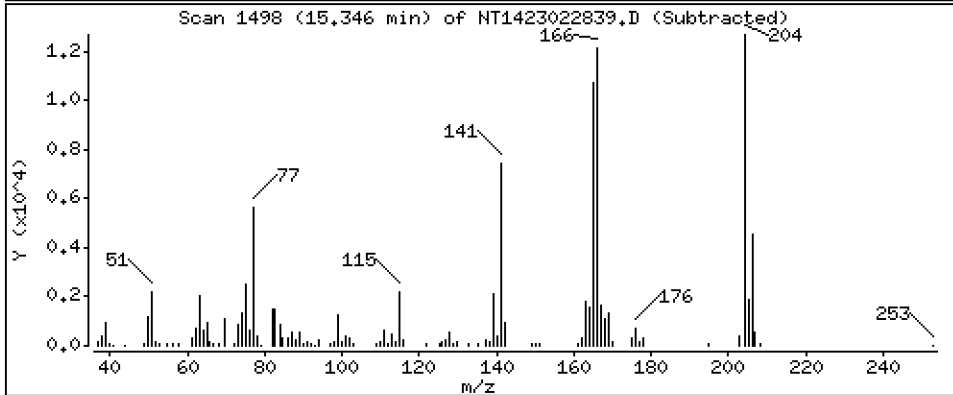
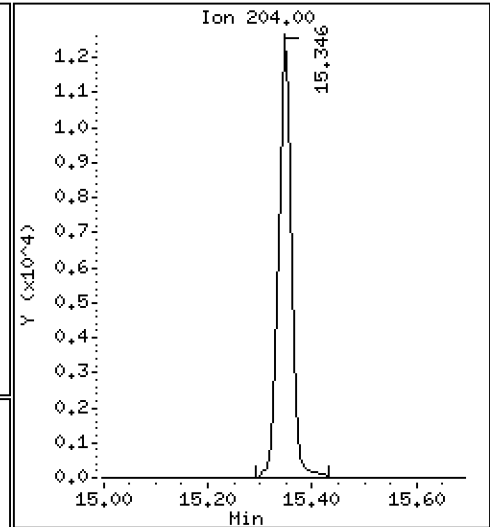
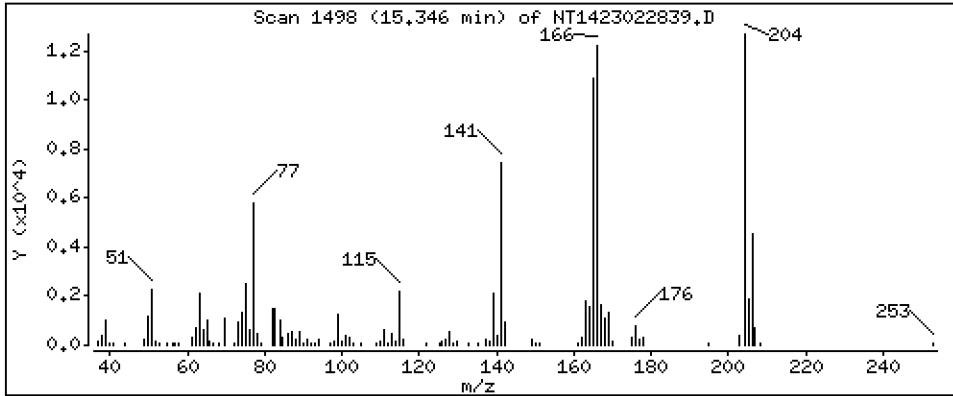
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,4945 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

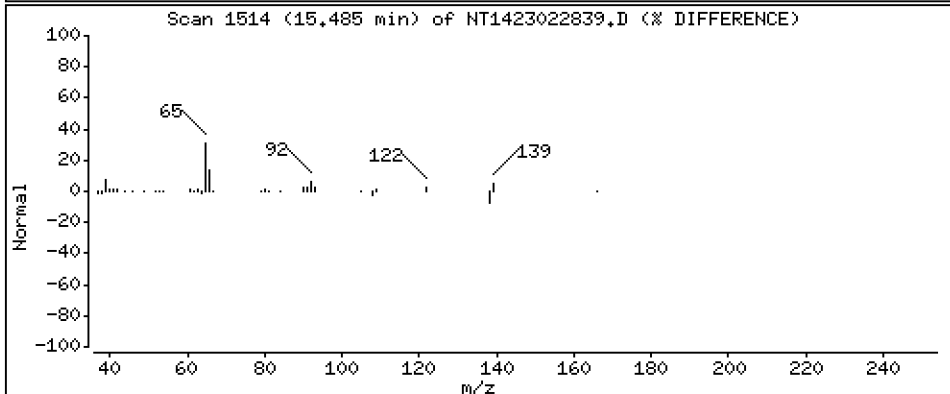
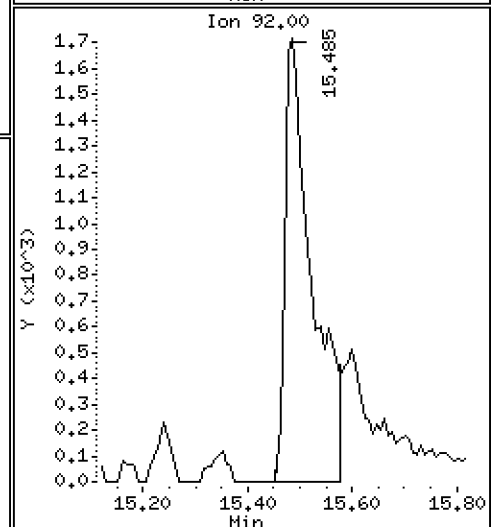
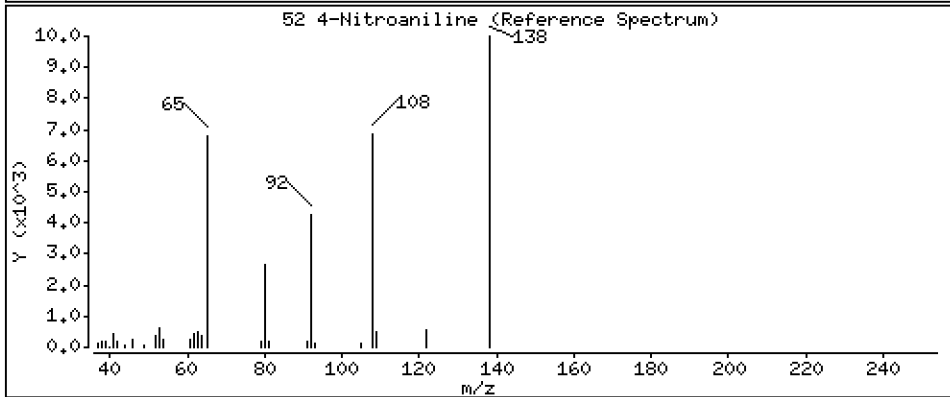
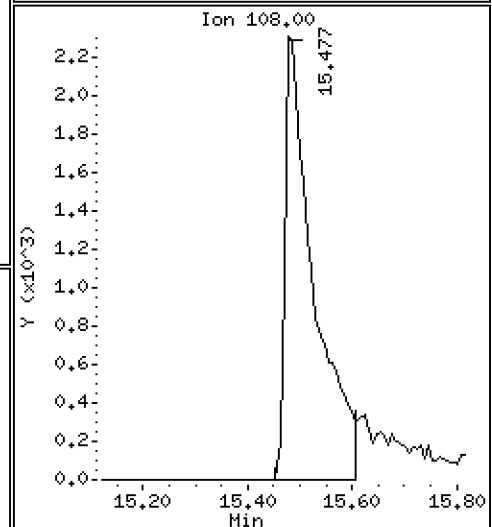
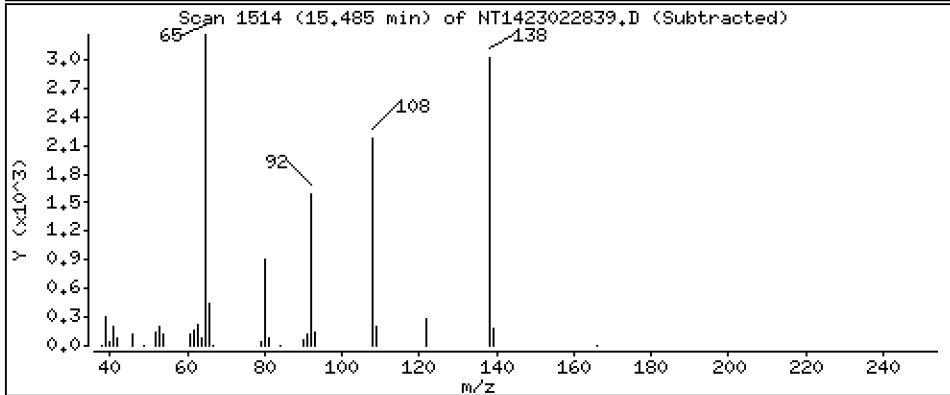
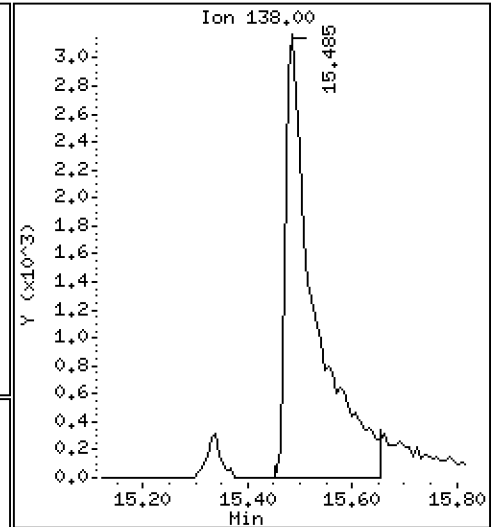
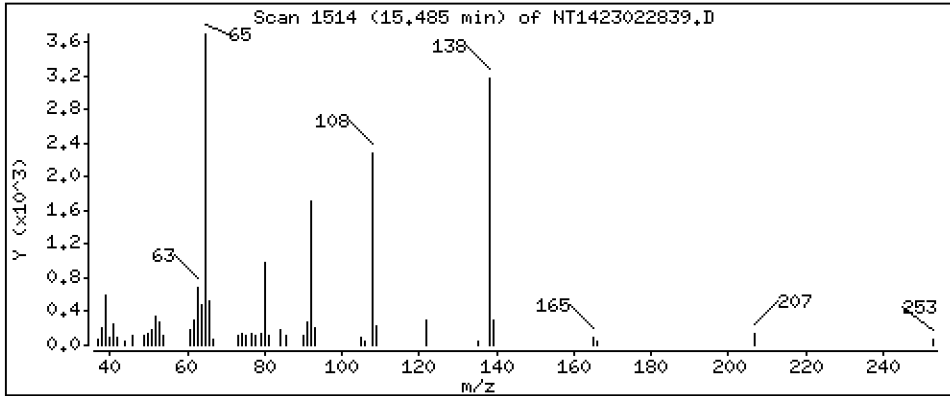
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,7157 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

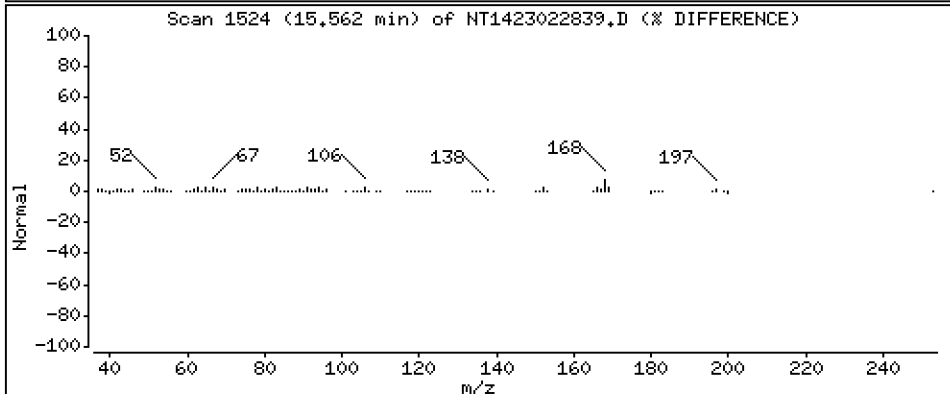
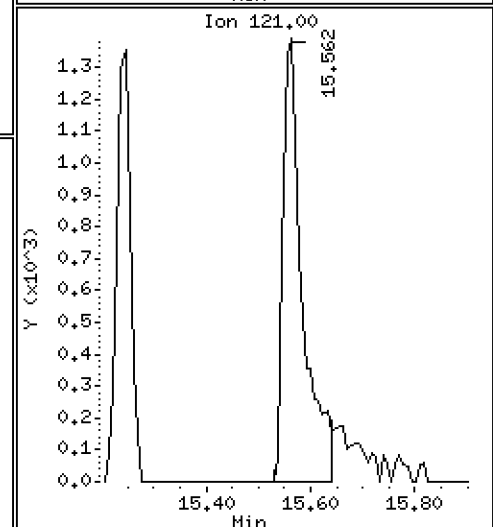
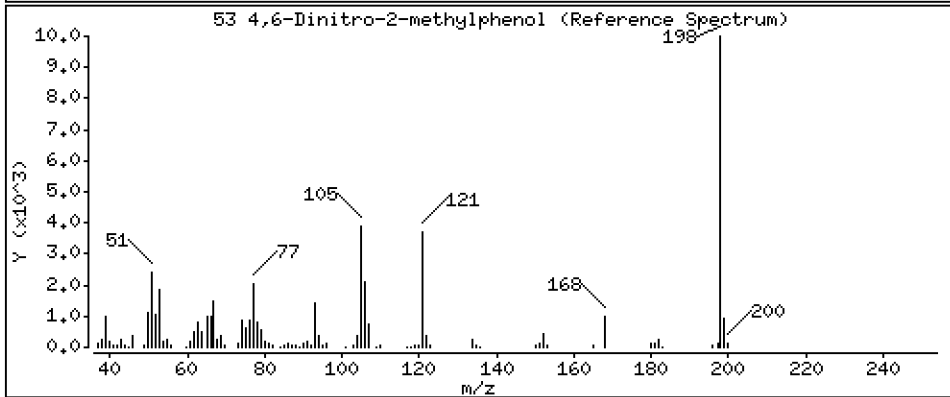
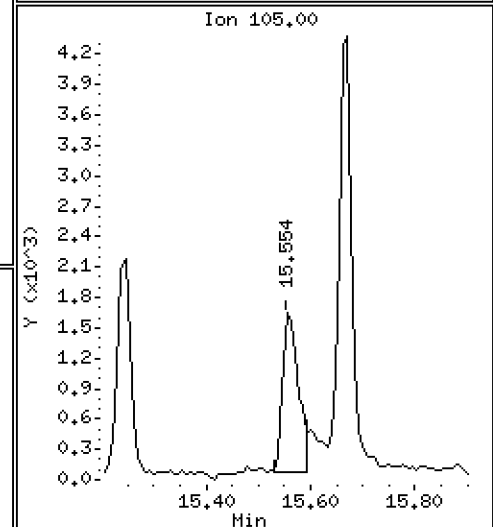
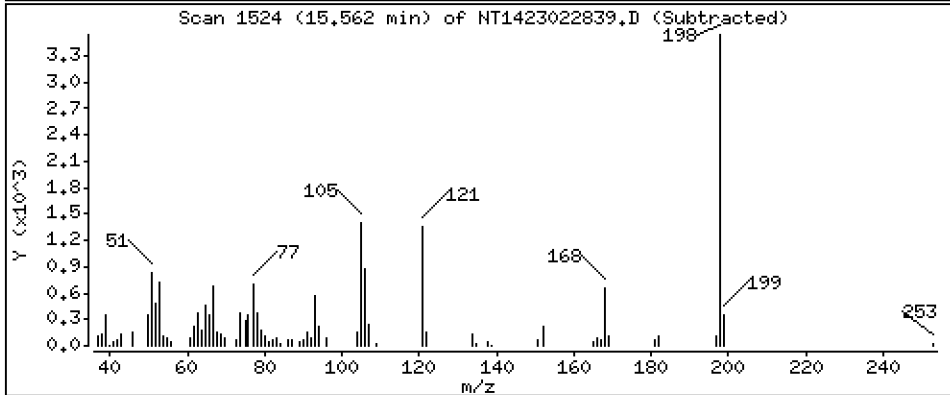
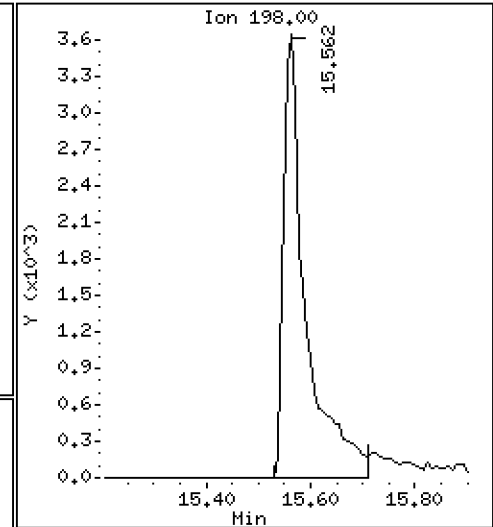
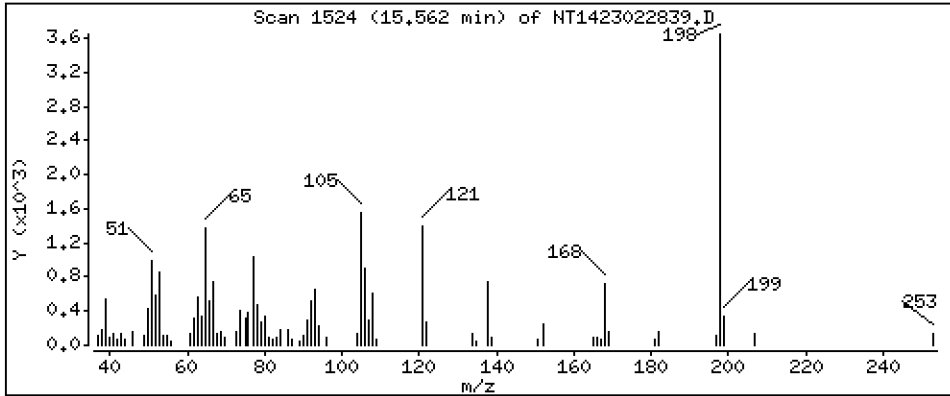
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 0.7601 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

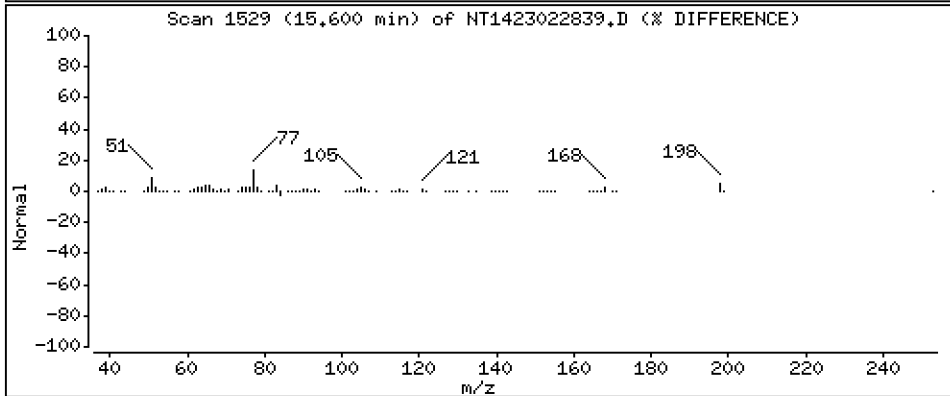
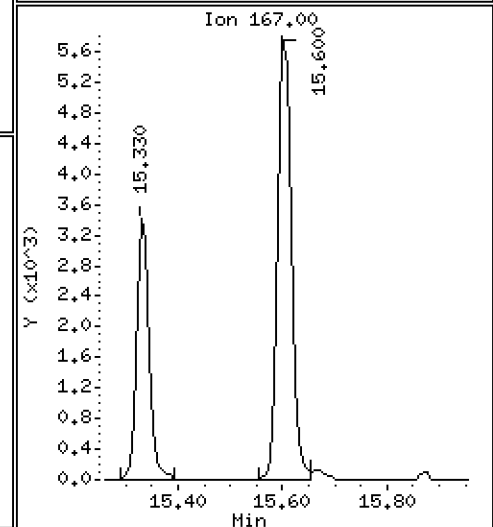
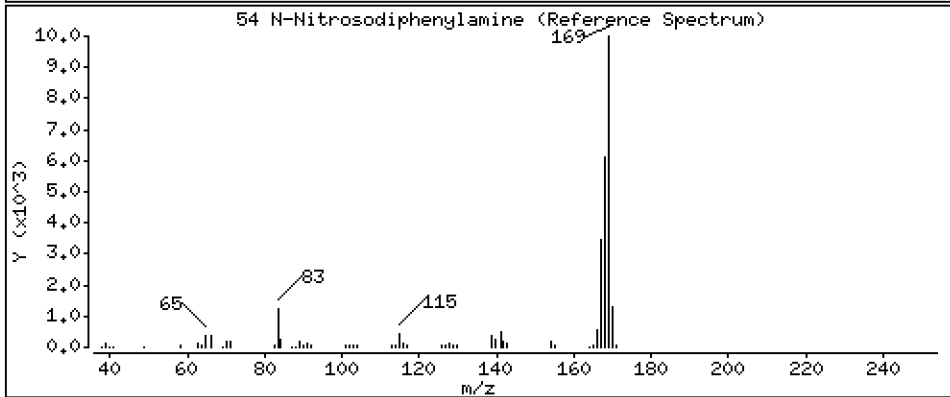
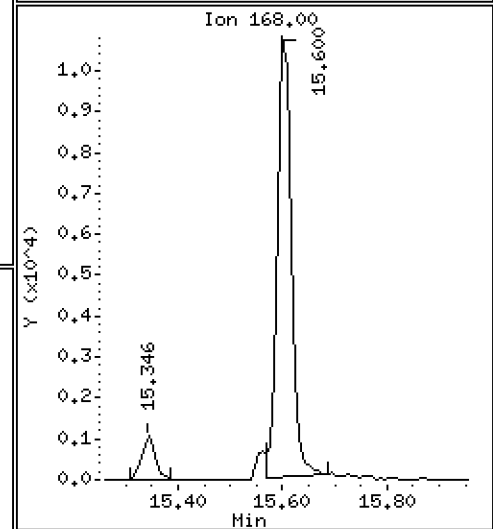
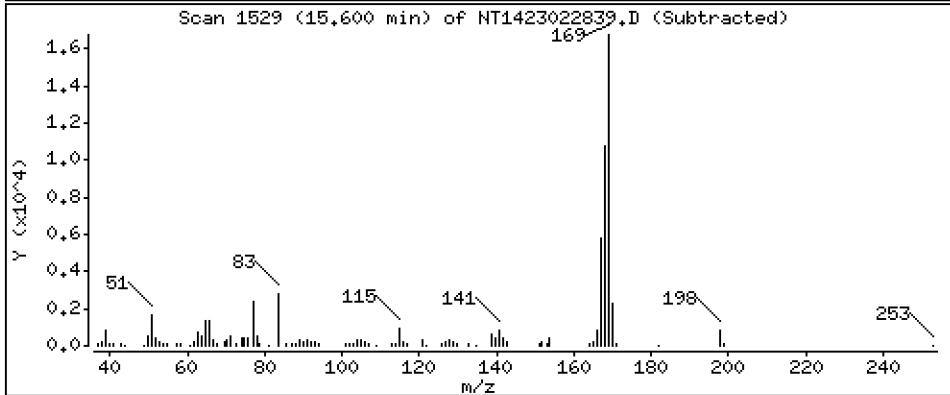
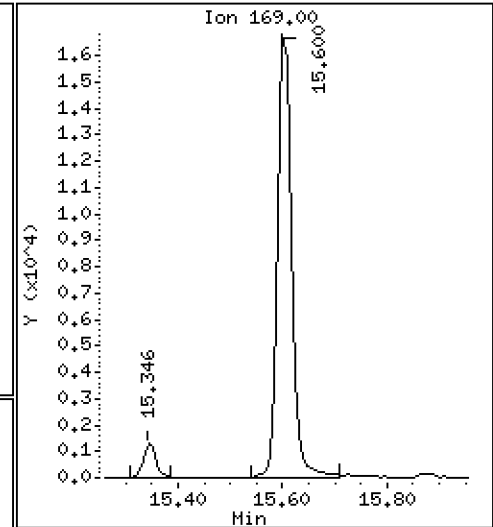
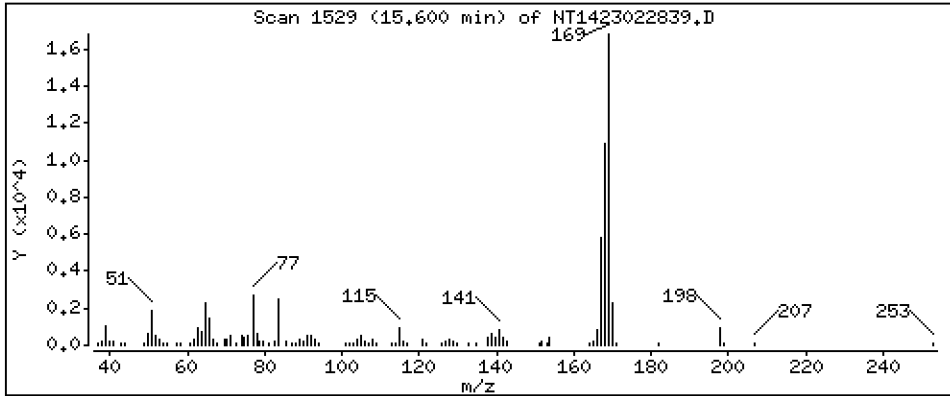
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,5643 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

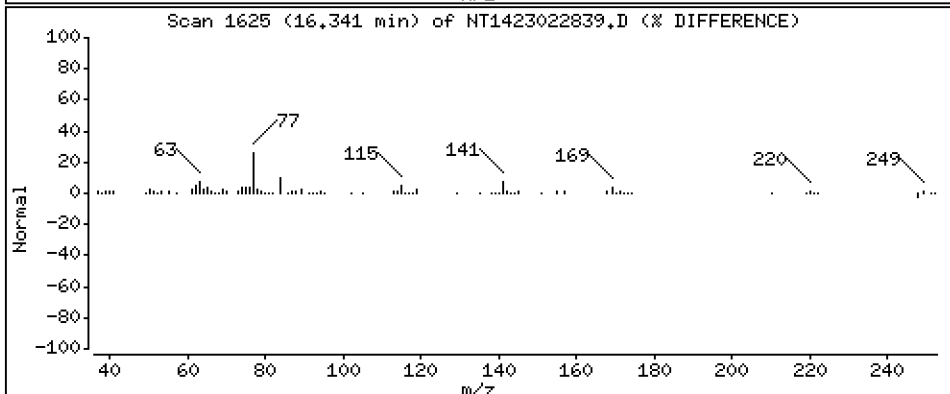
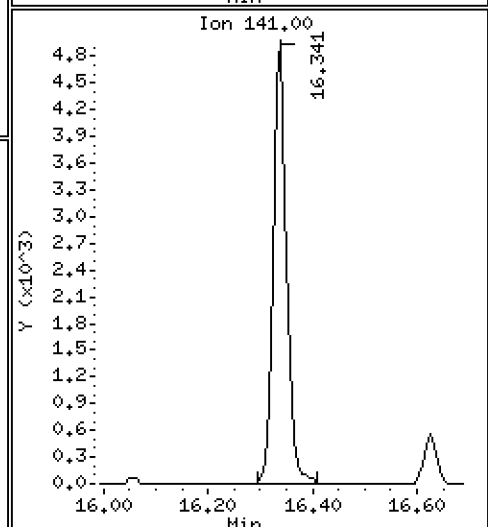
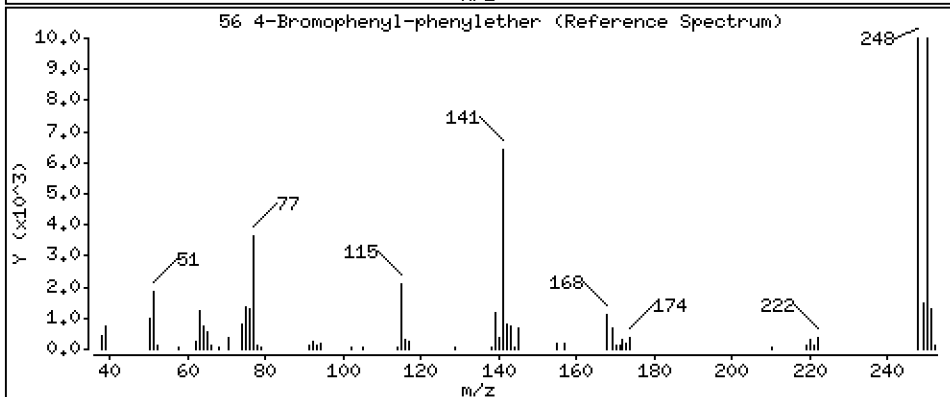
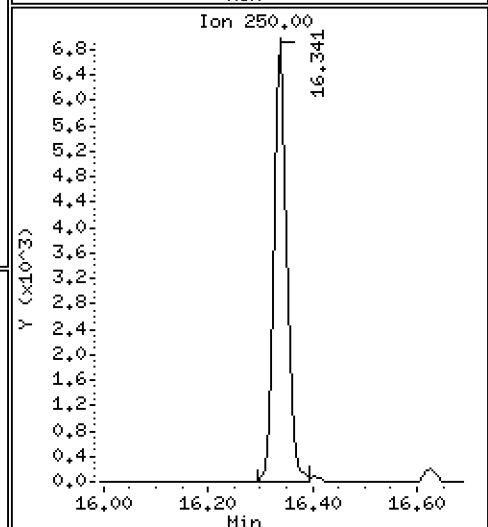
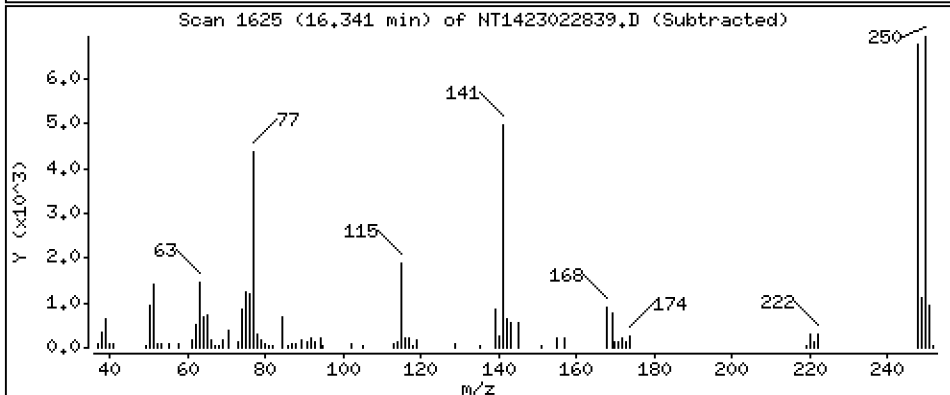
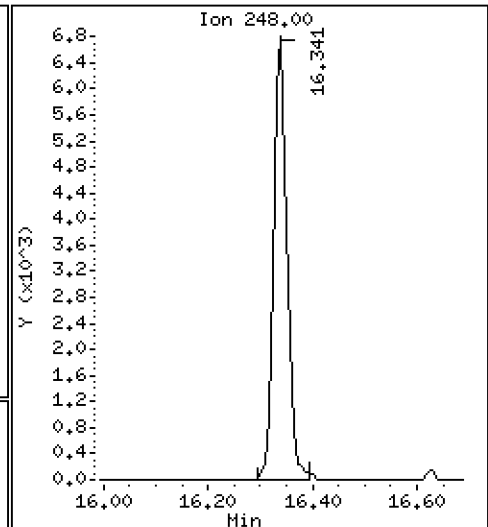
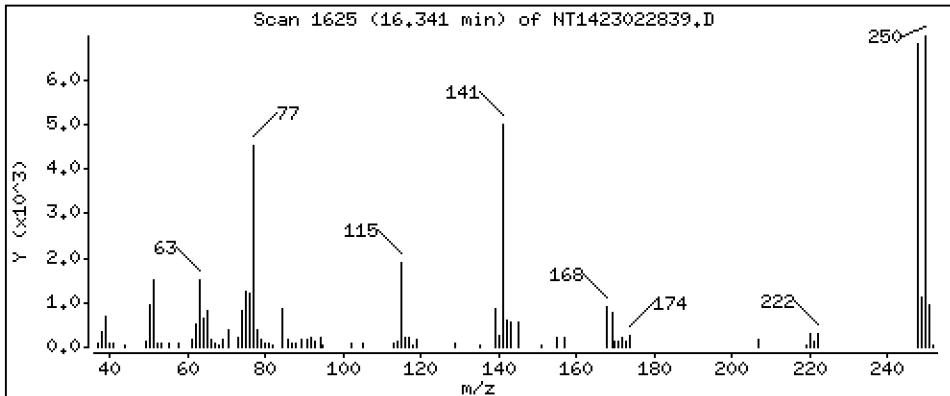
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,5071 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

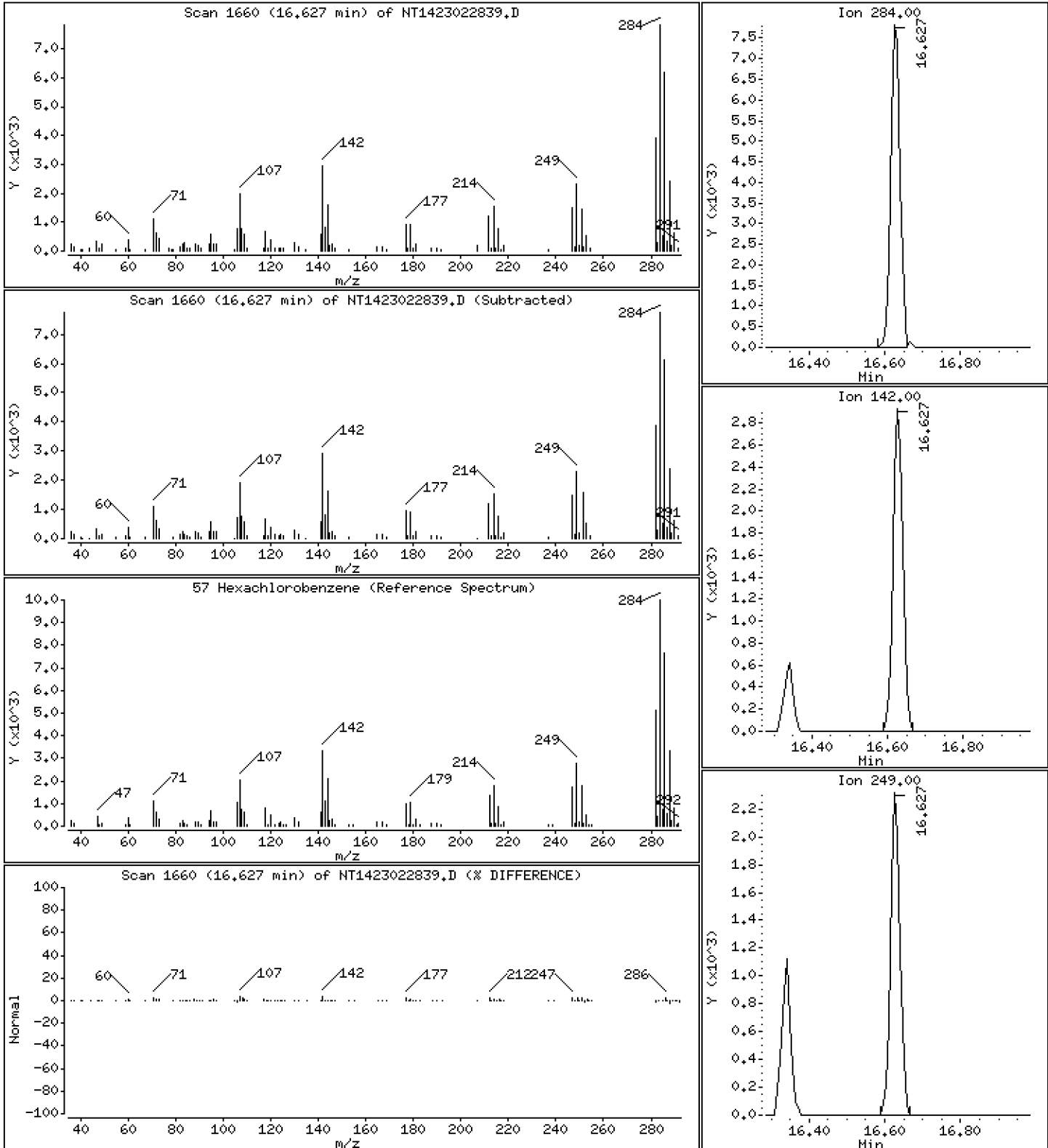
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 0.5253 ug/mL





Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

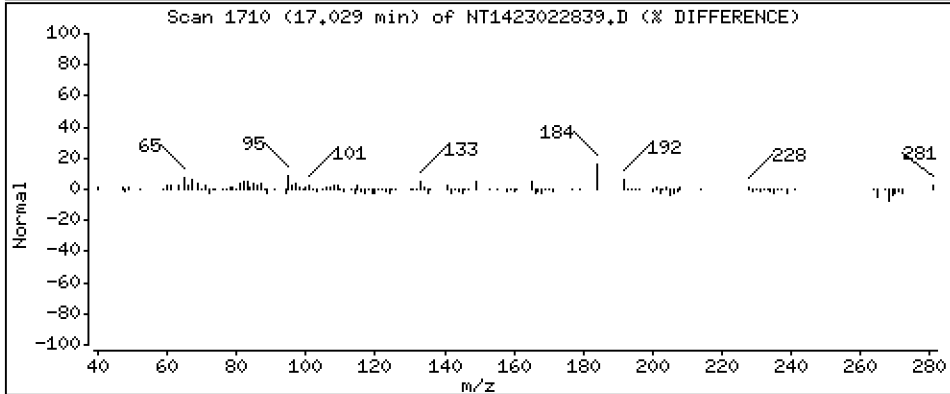
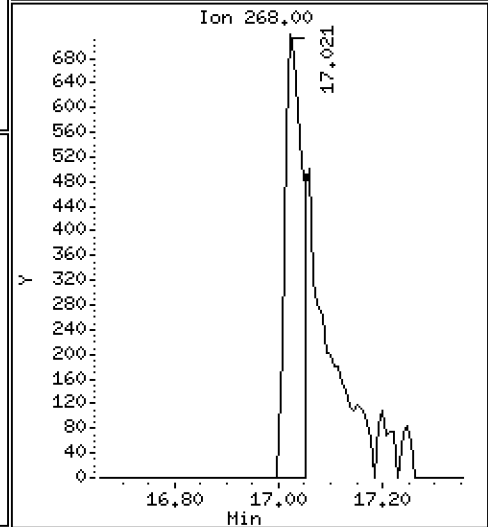
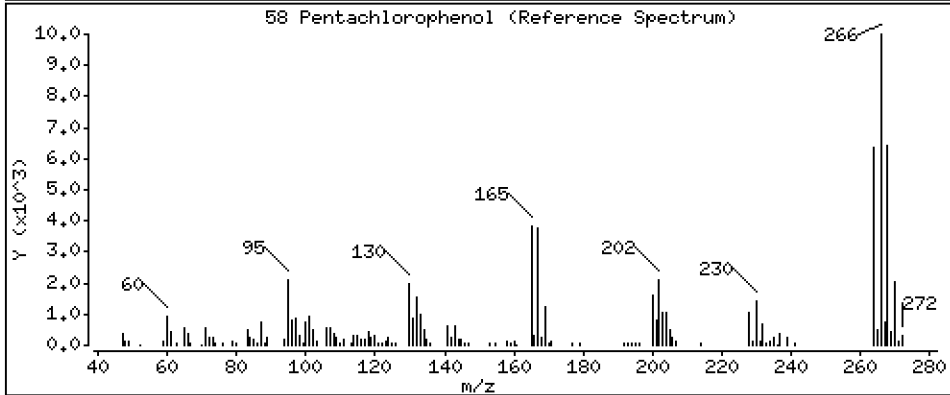
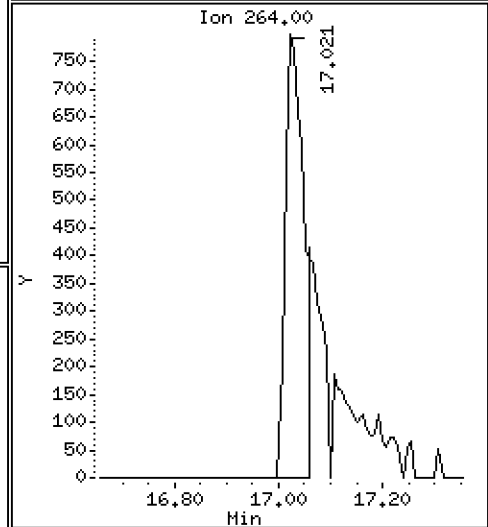
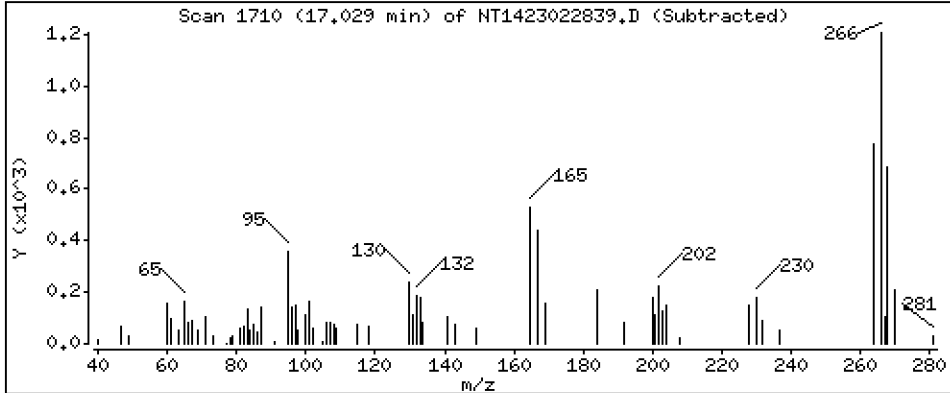
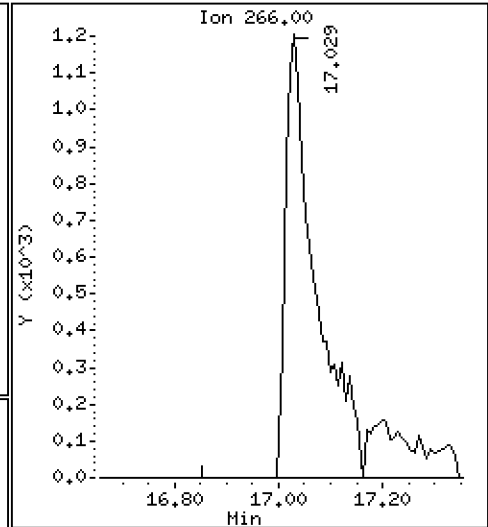
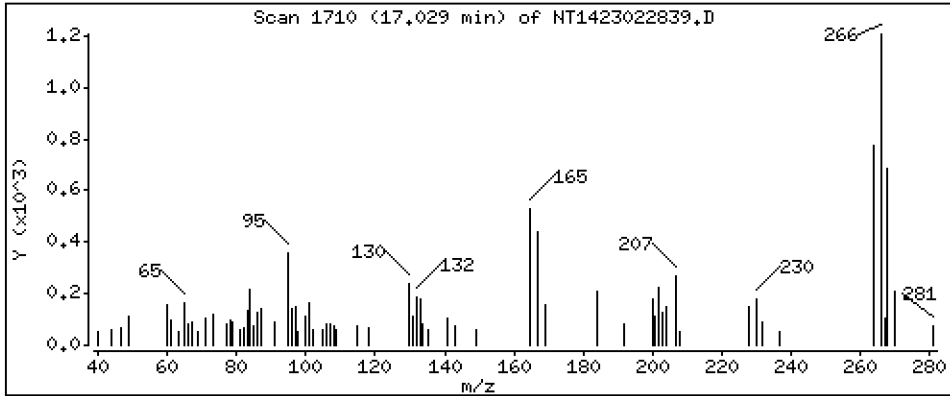
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

58 Pentachlorophenol

Concentration: 0.5024 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

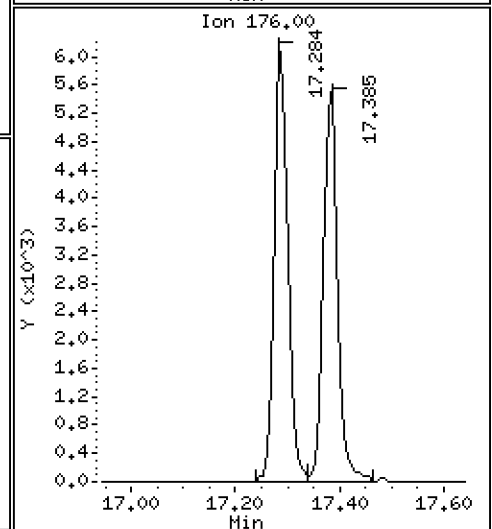
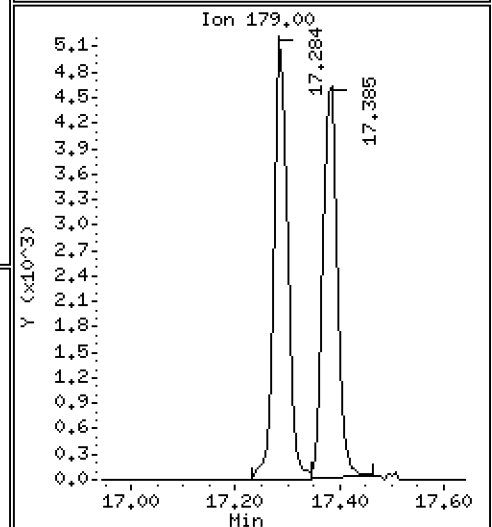
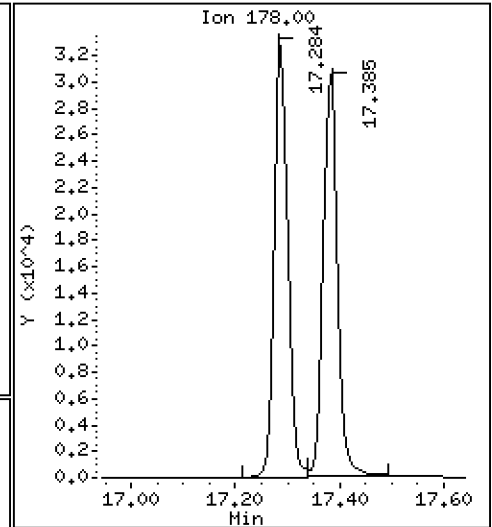
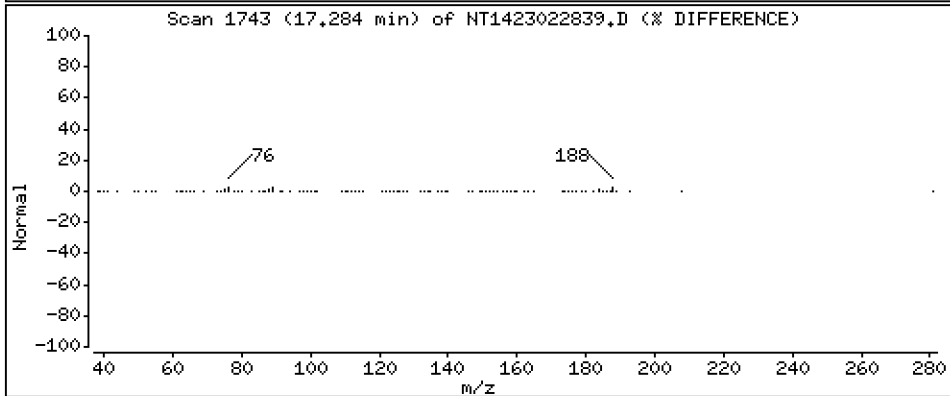
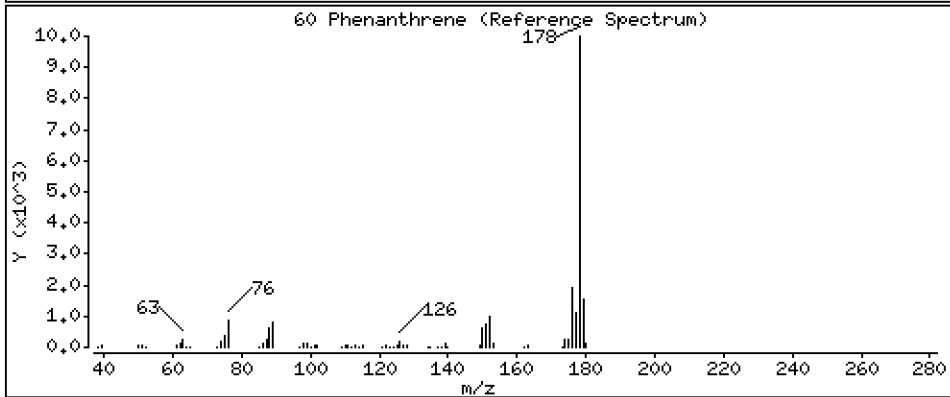
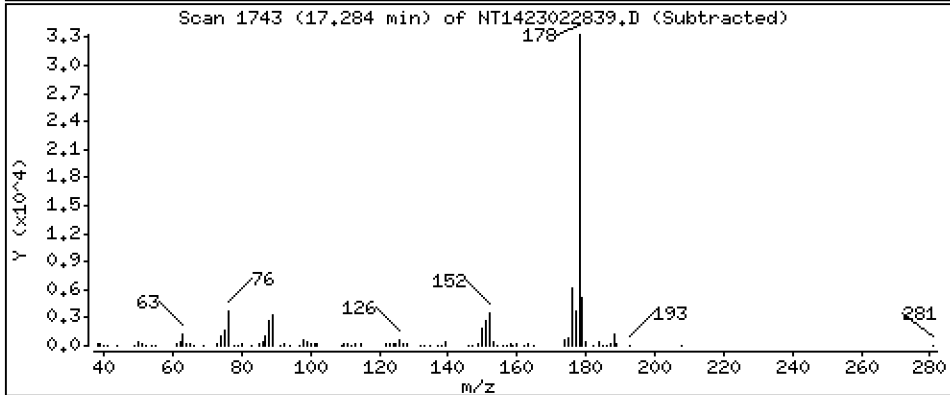
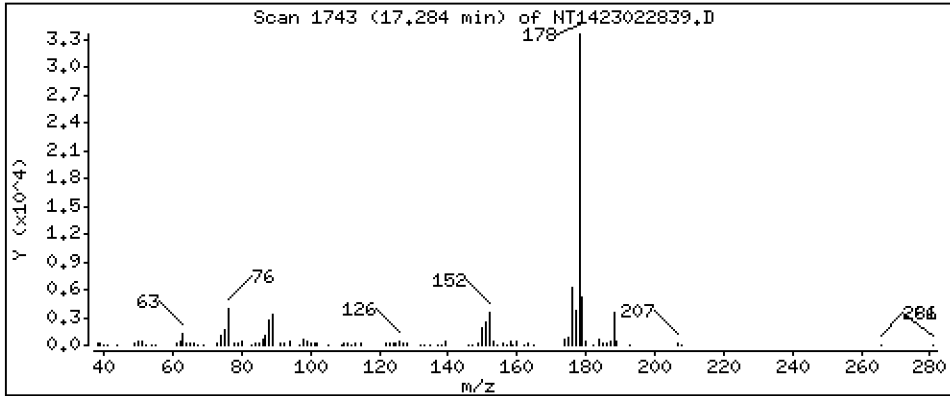
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,5152 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

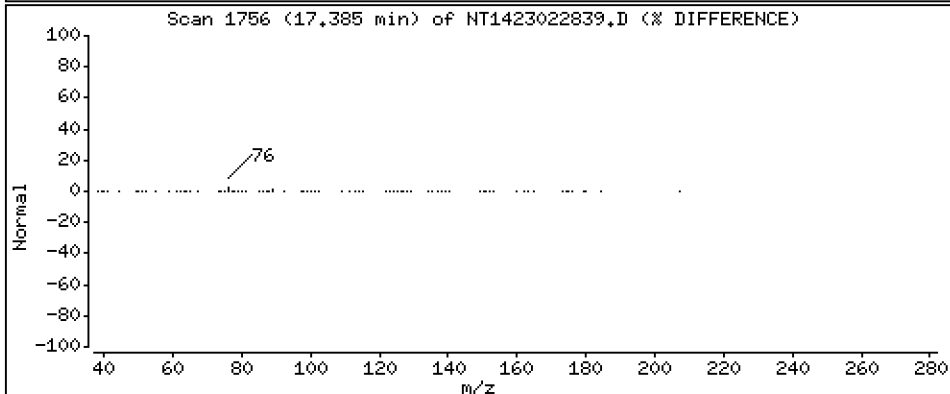
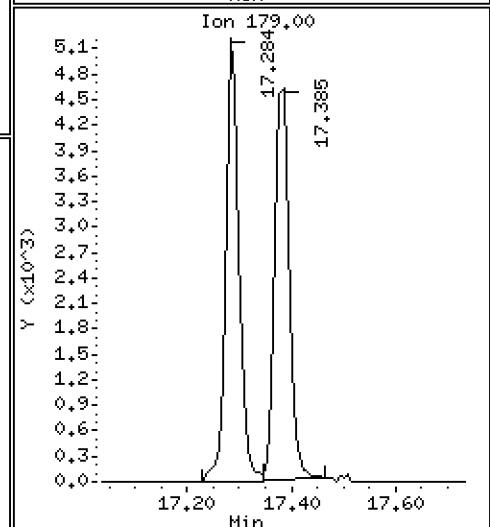
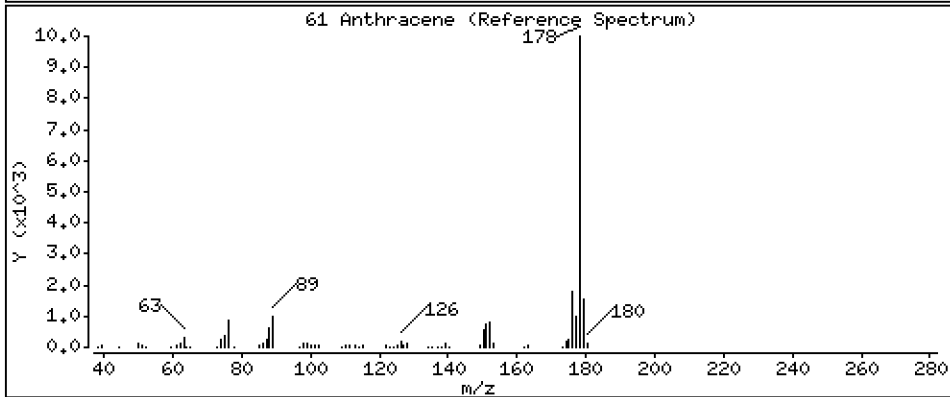
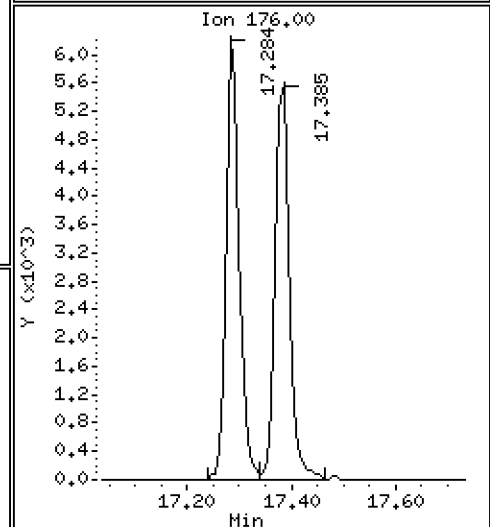
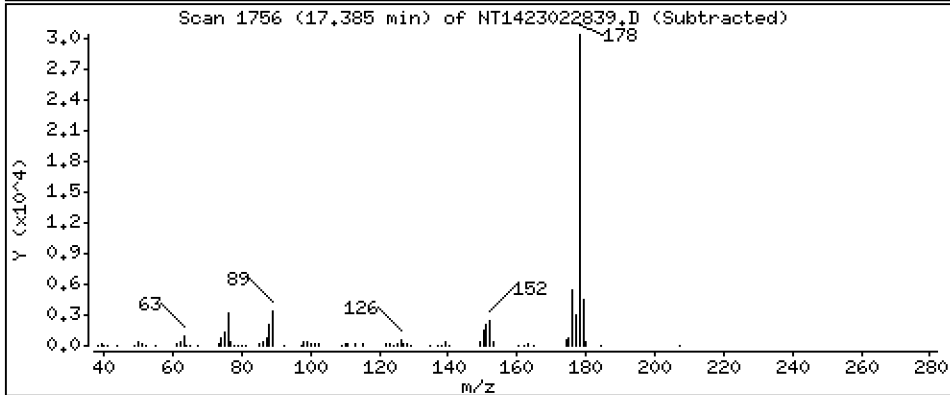
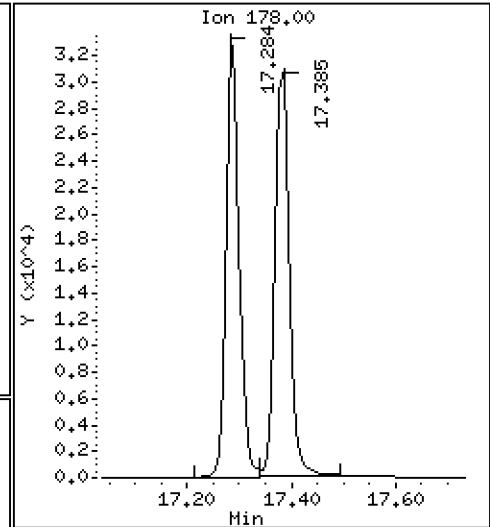
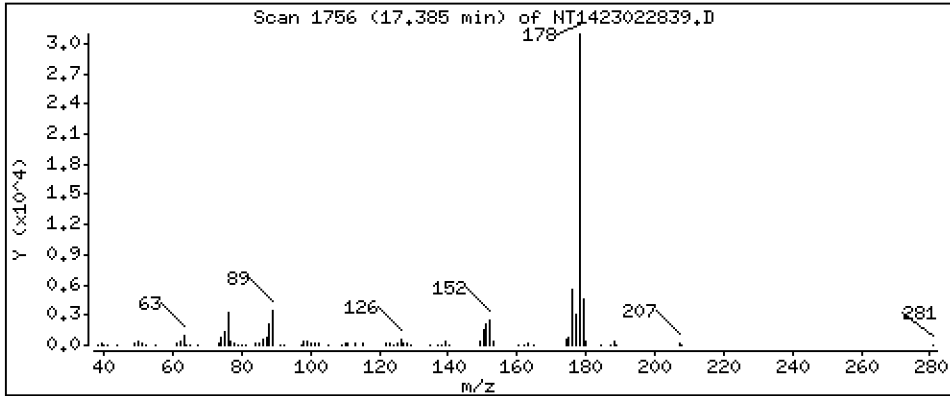
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,5316 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

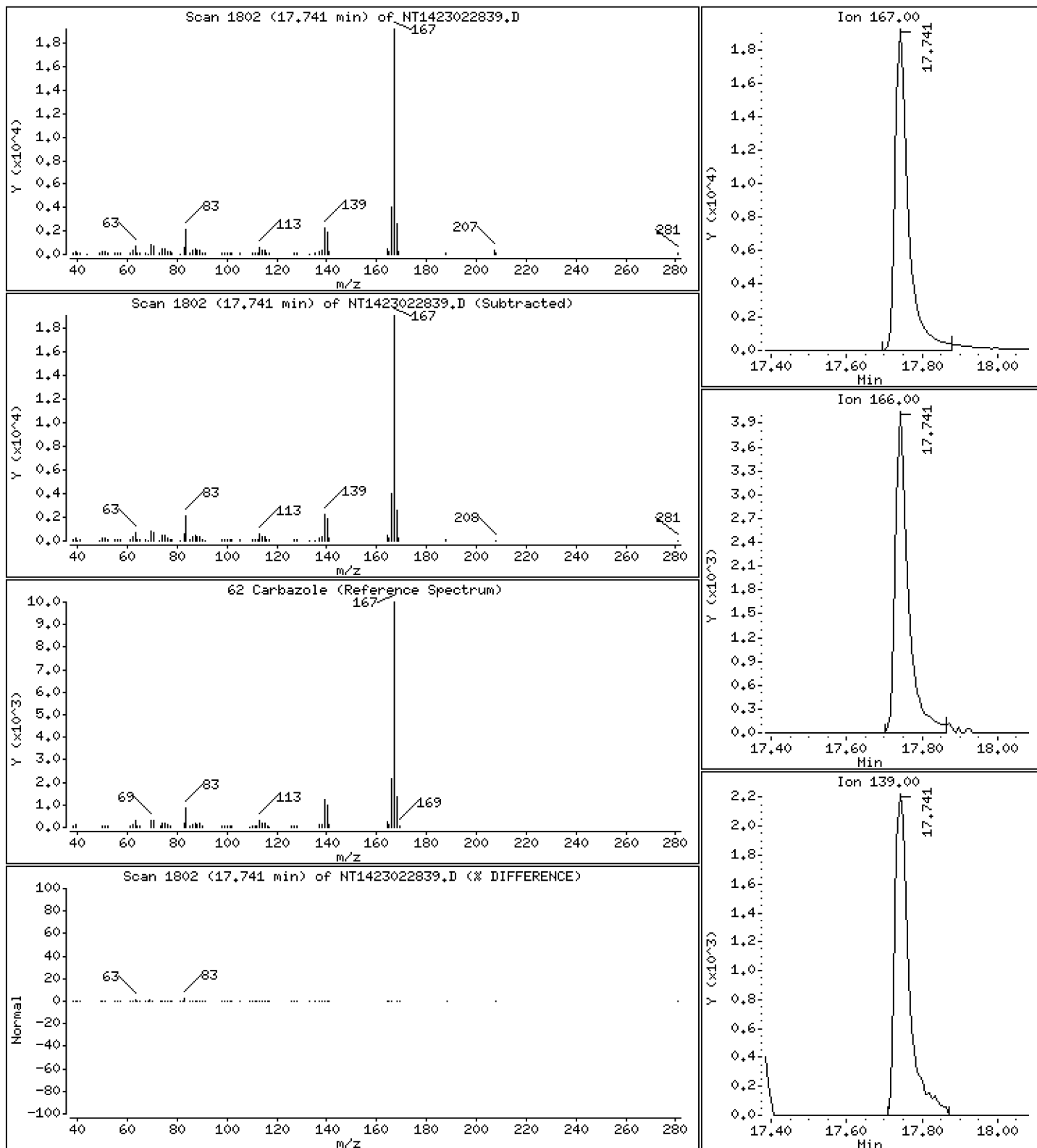
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,4911 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

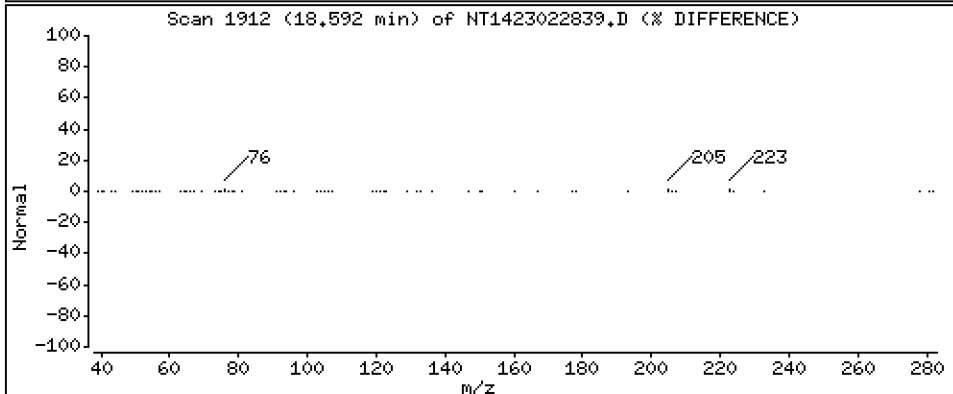
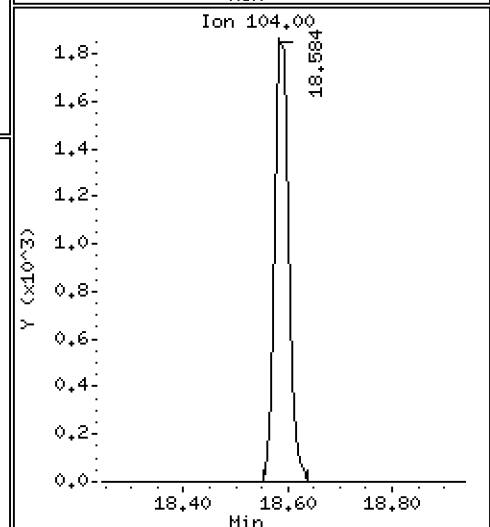
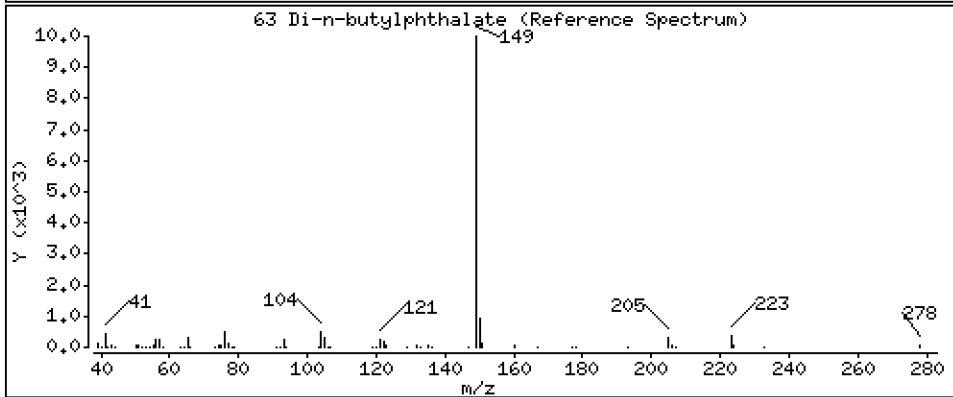
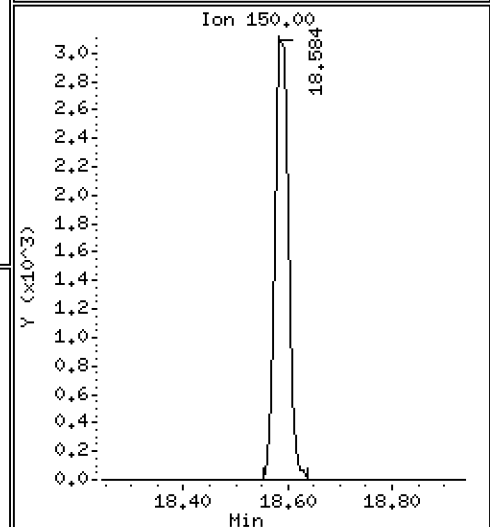
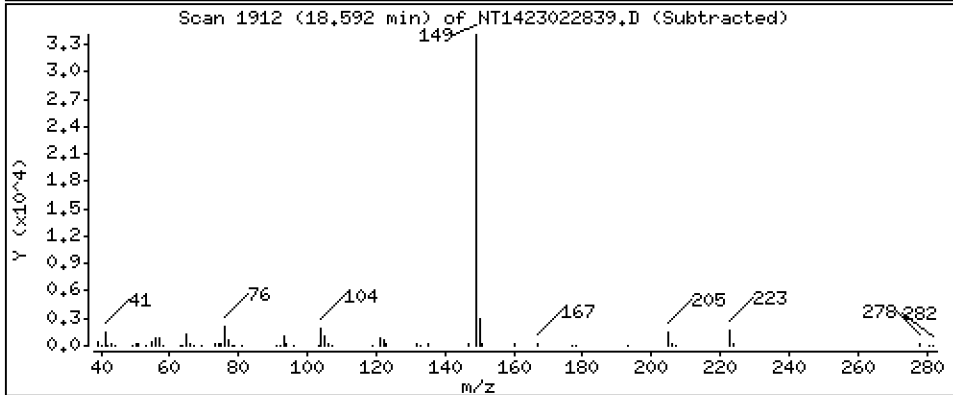
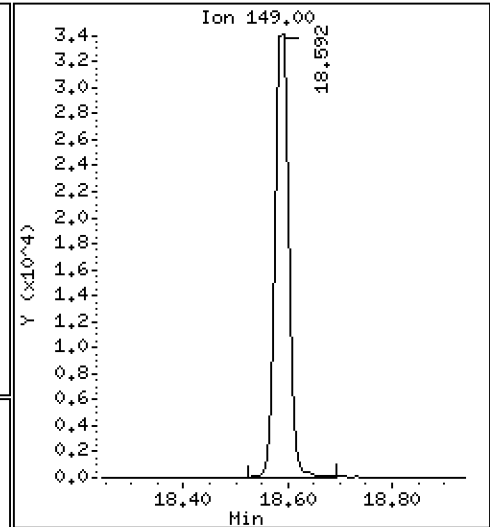
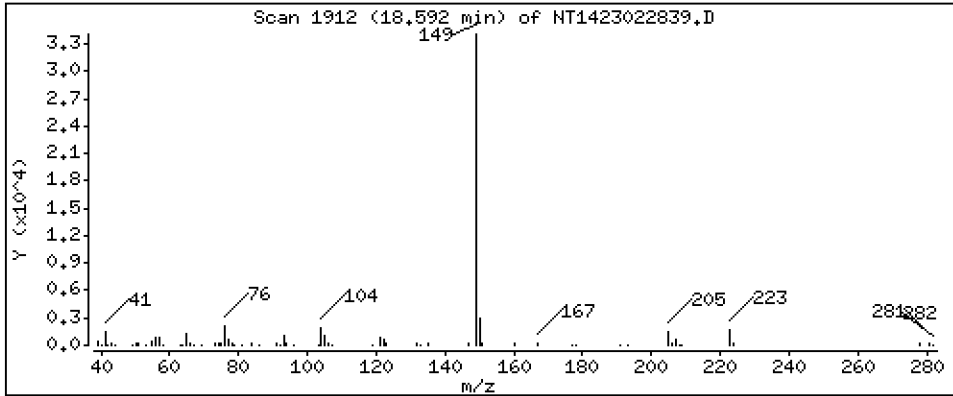
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,4957 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

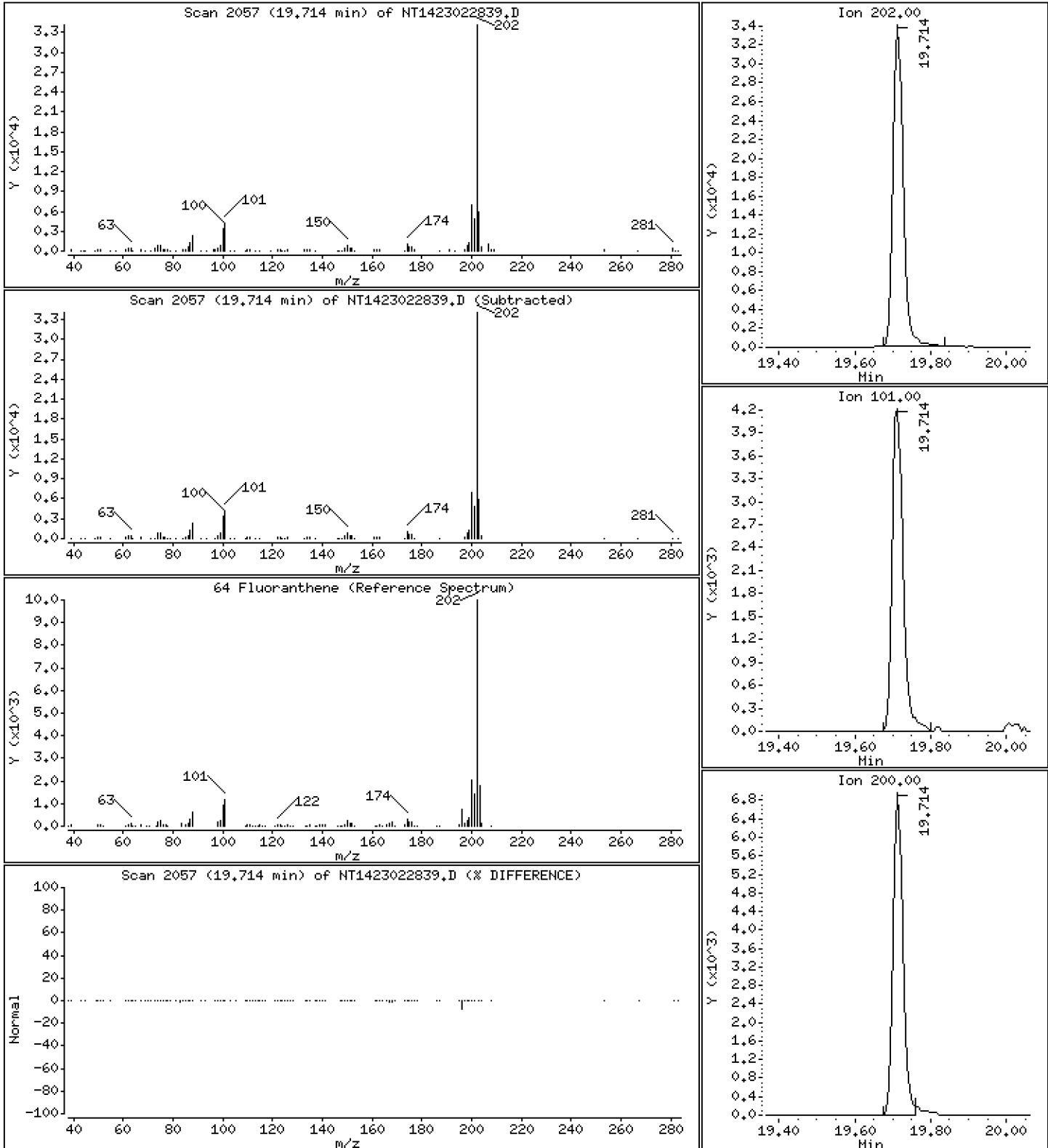
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,4678 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

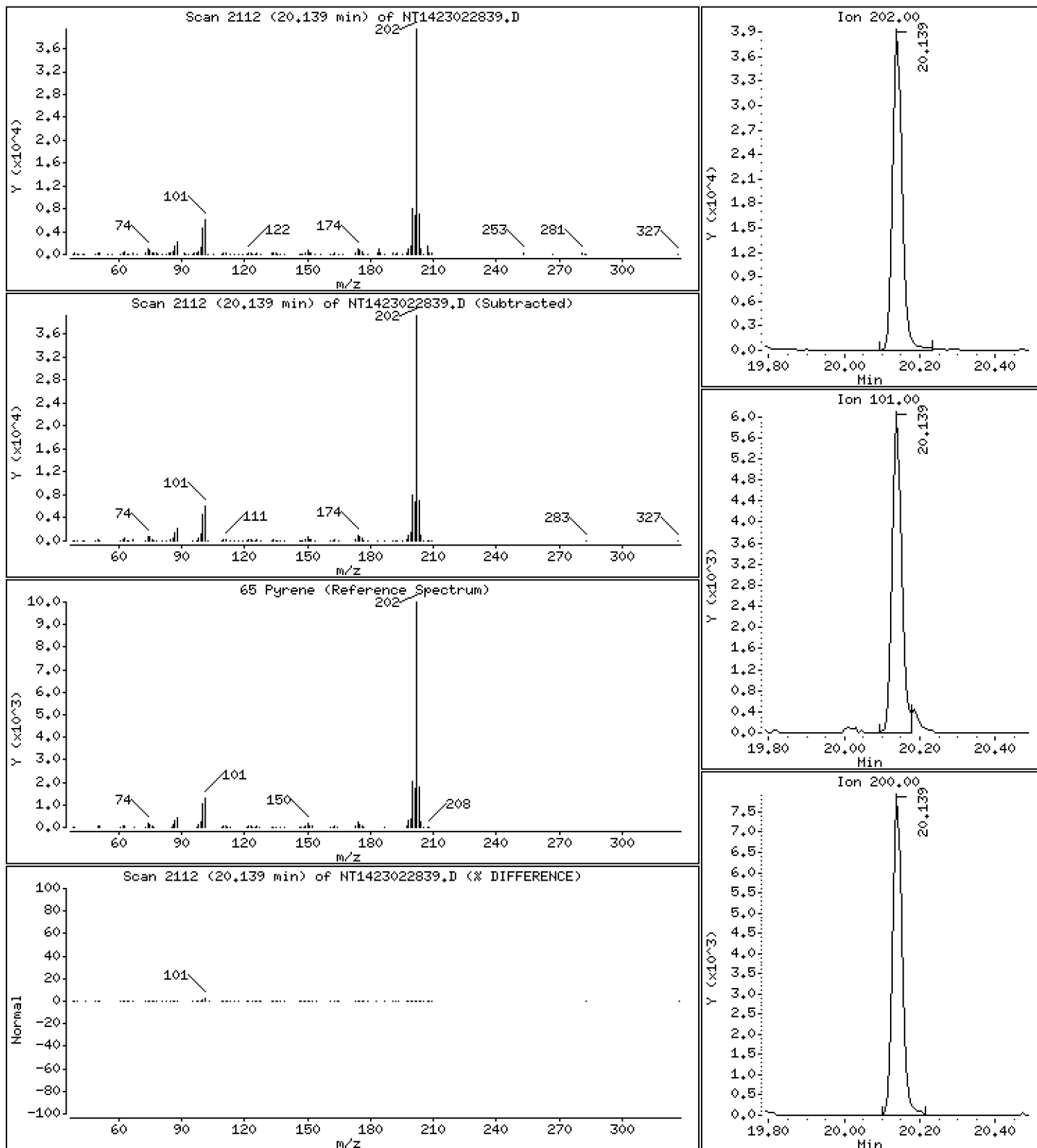
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,4742 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

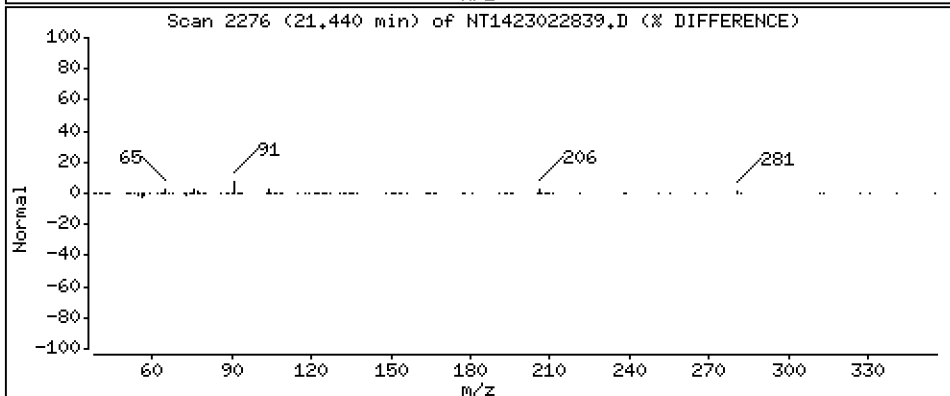
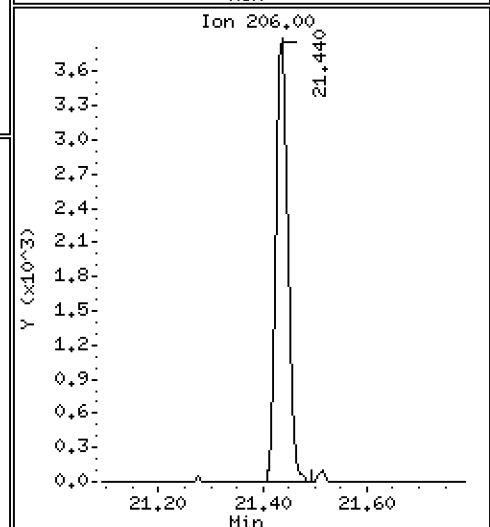
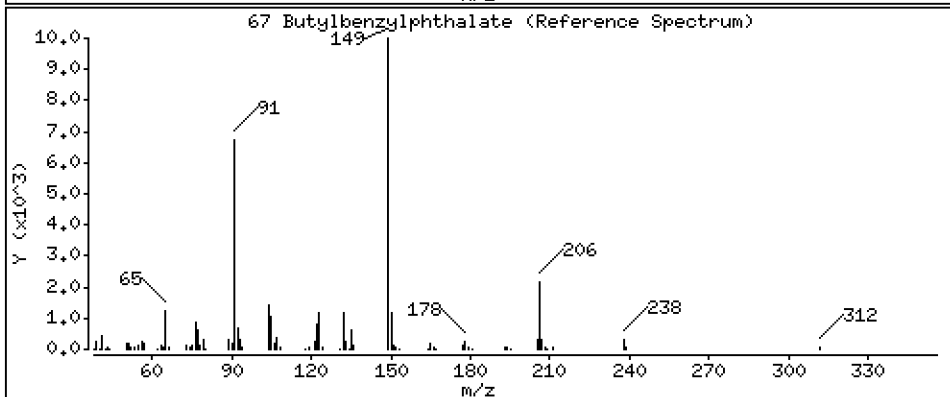
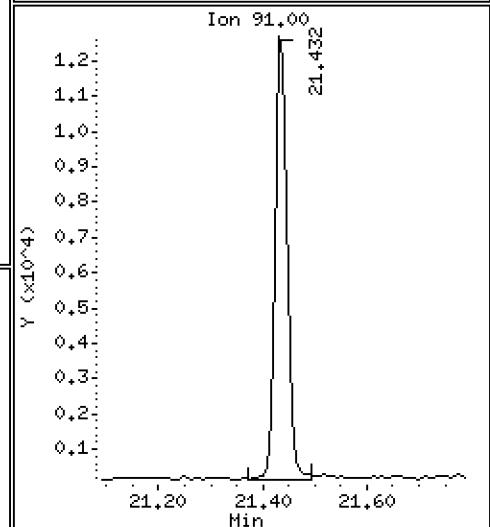
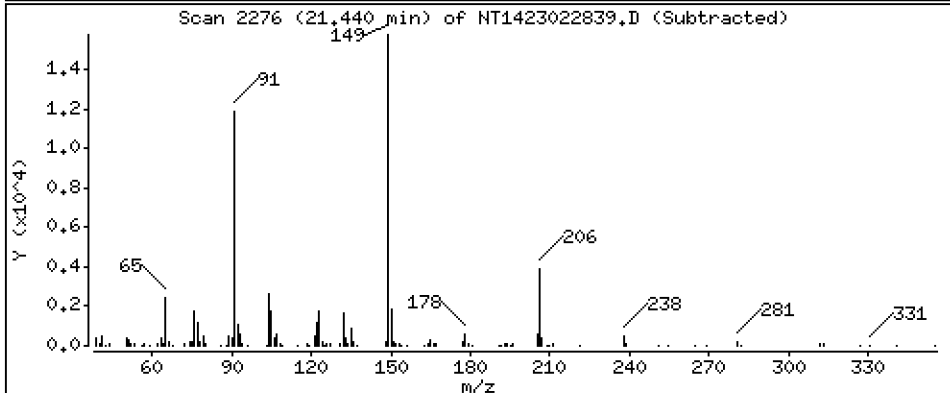
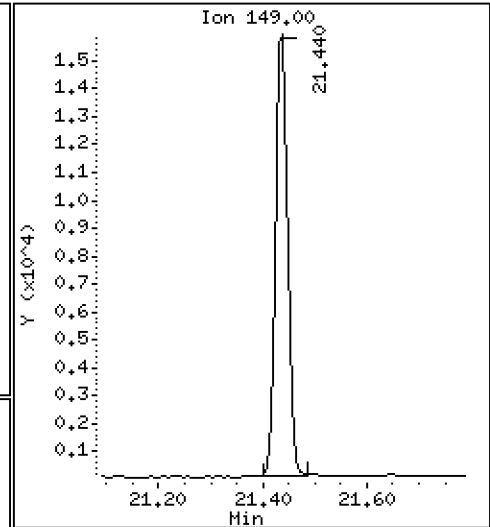
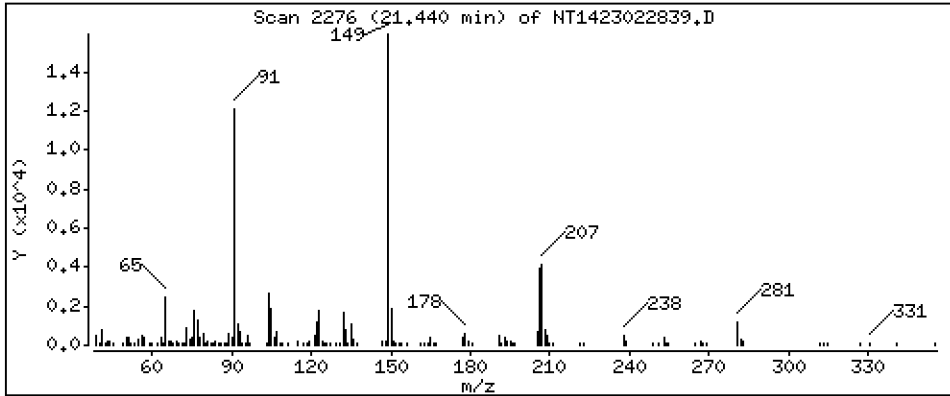
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,5034 ug/mL





Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

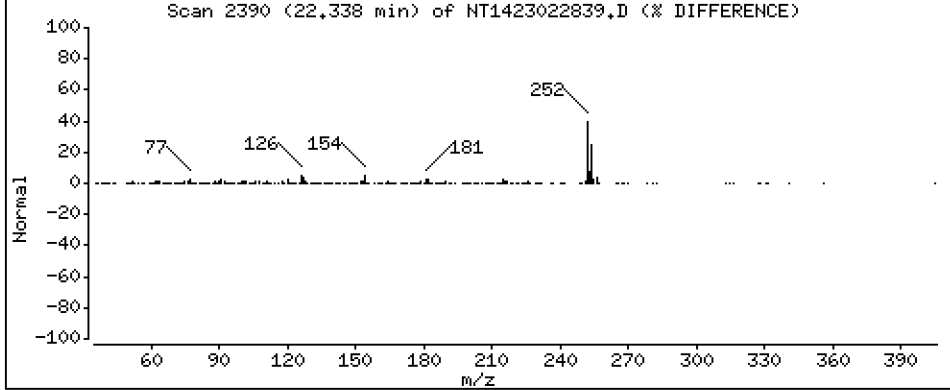
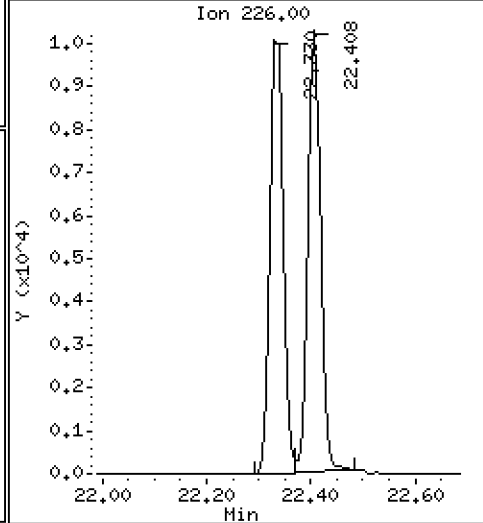
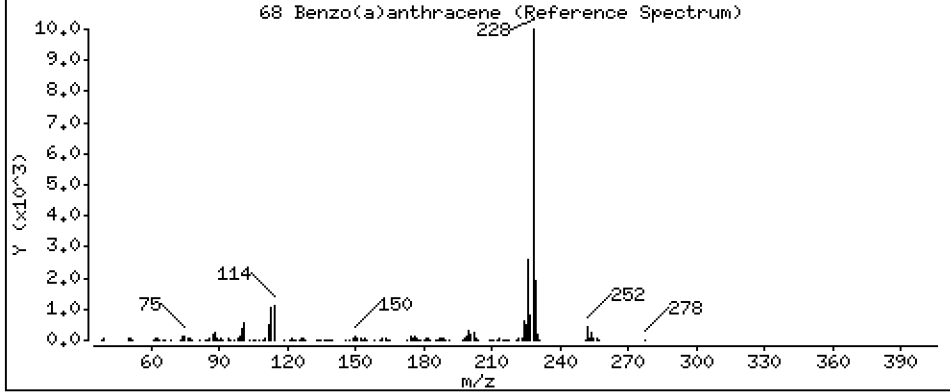
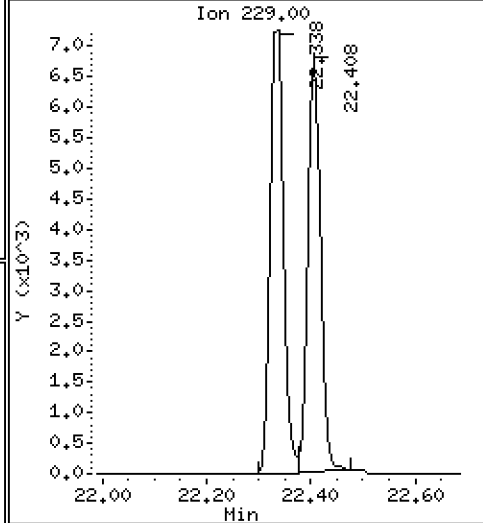
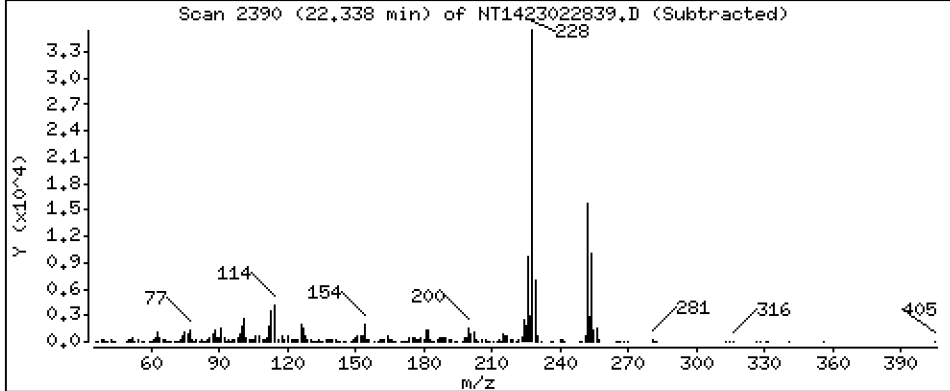
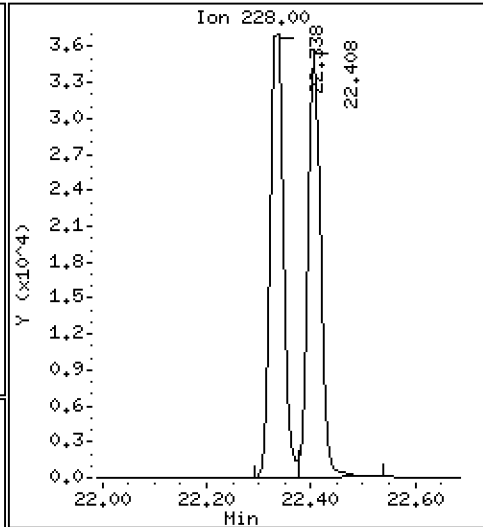
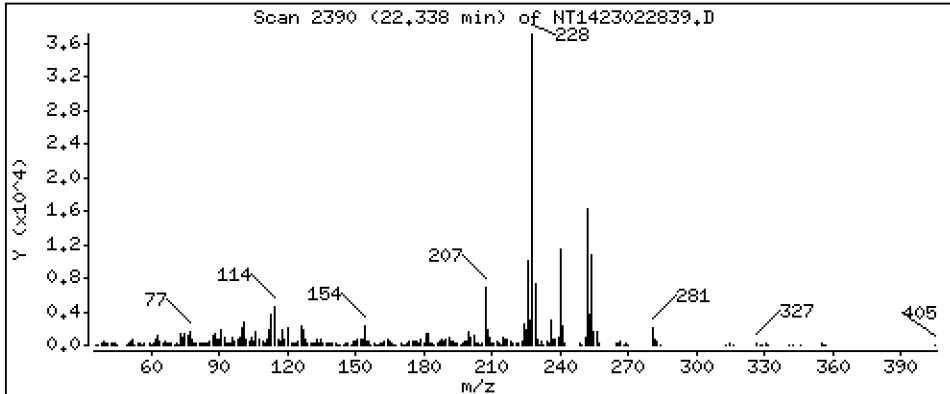
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,5467 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

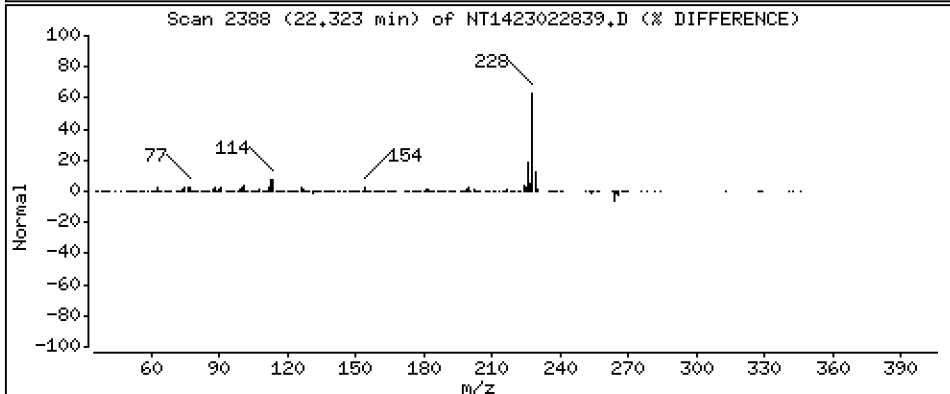
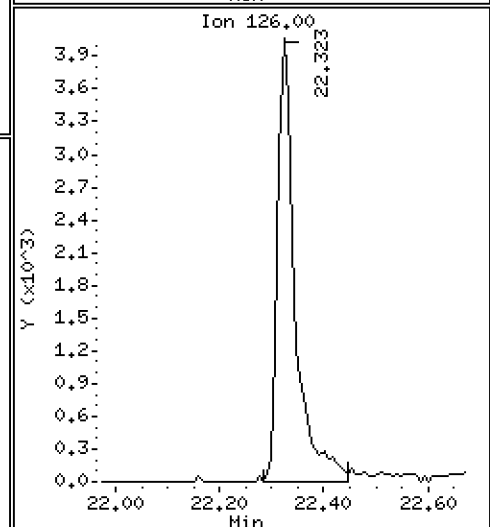
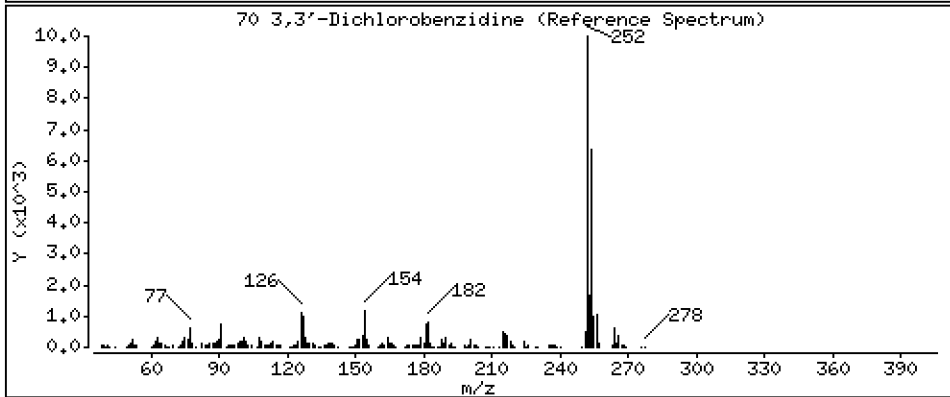
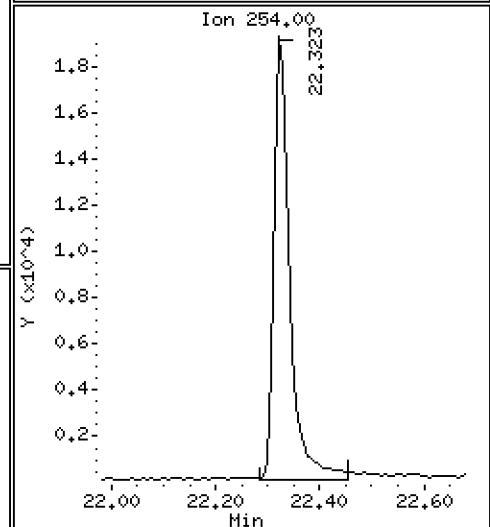
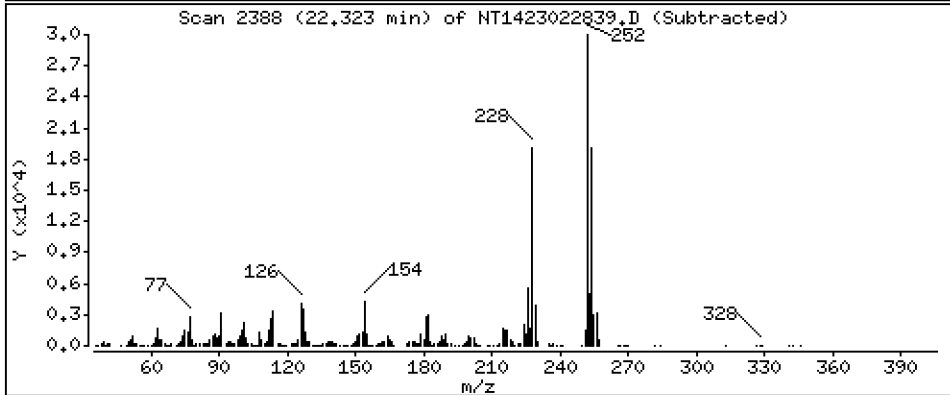
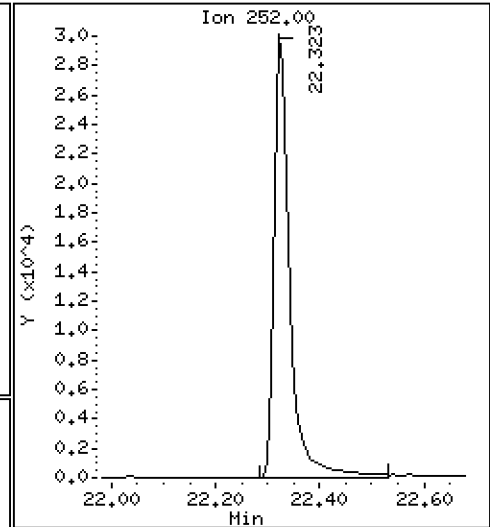
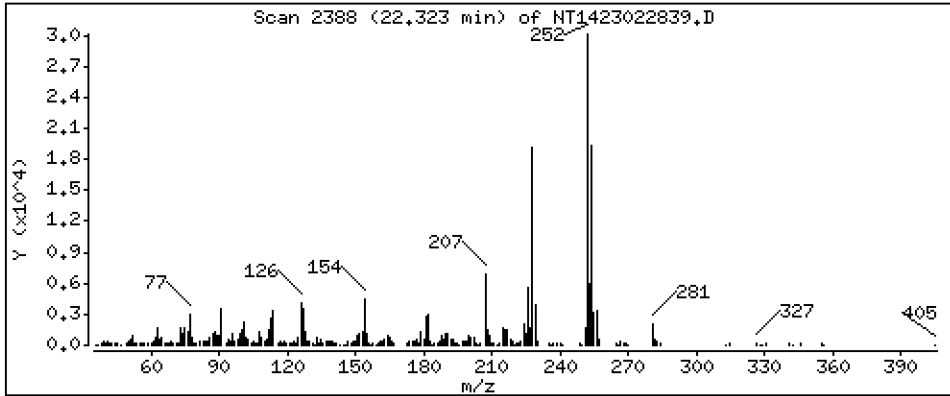
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 1,896 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

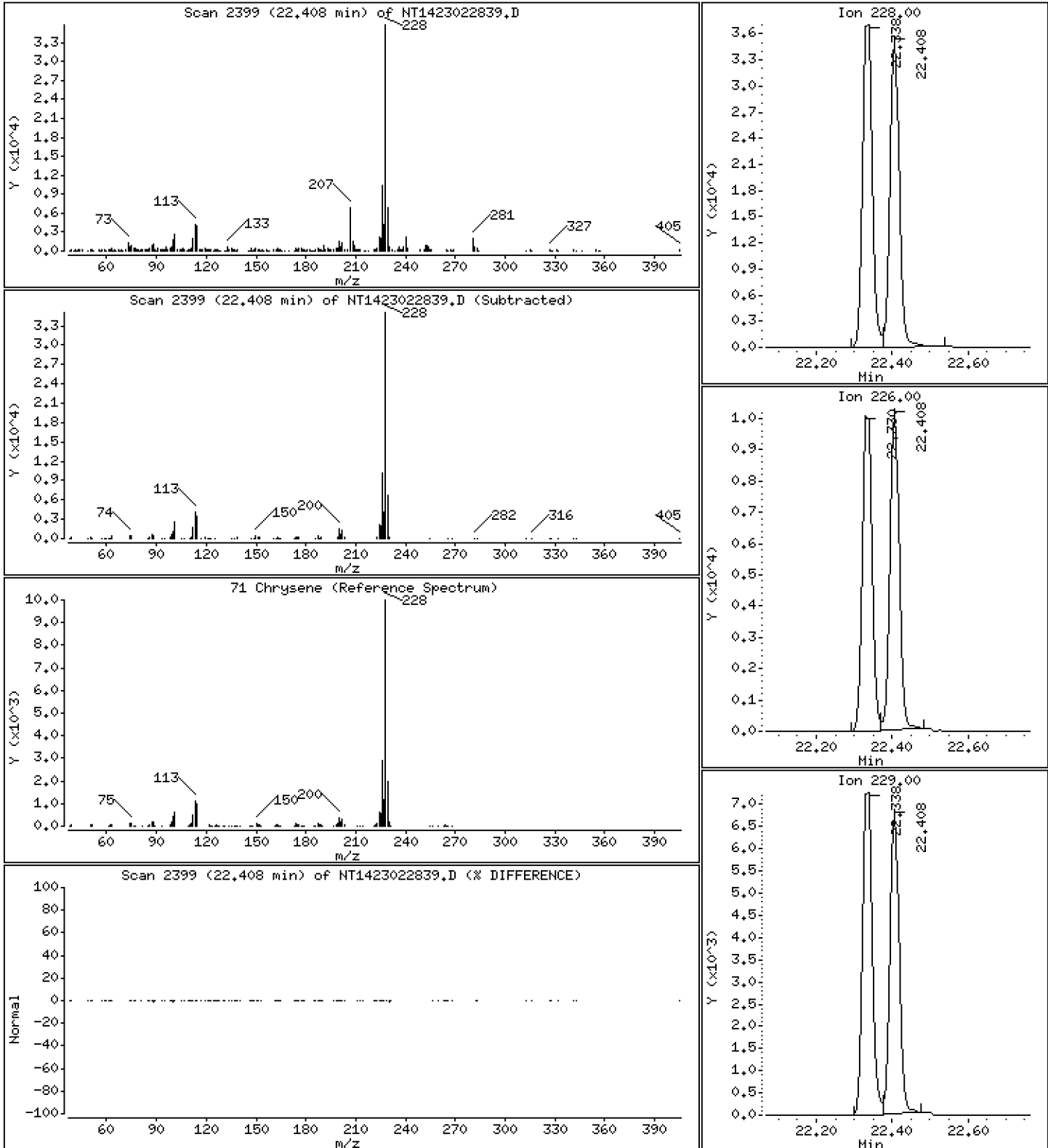
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,5253 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

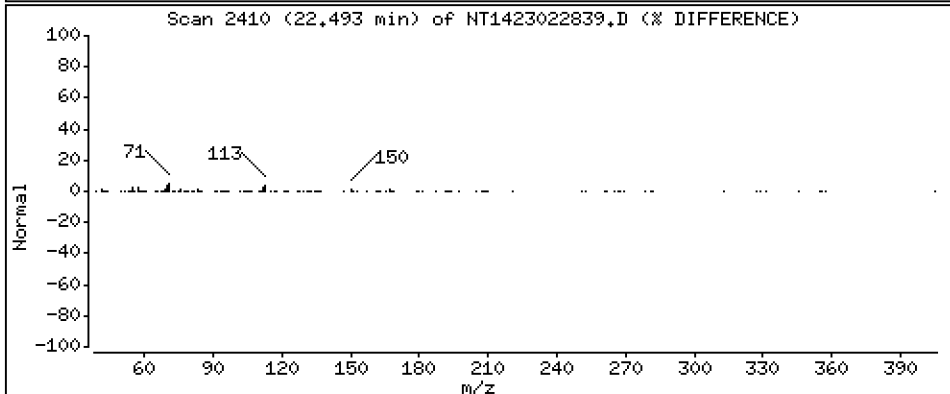
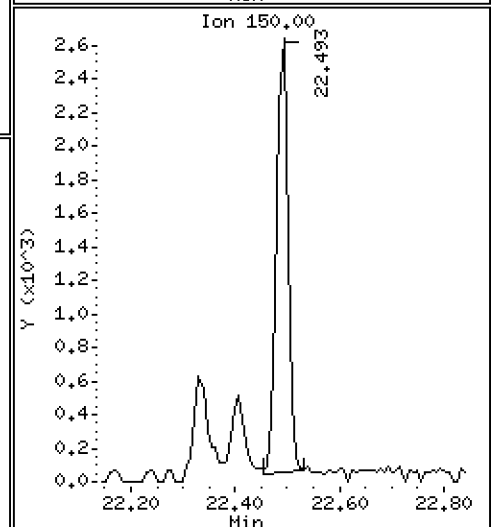
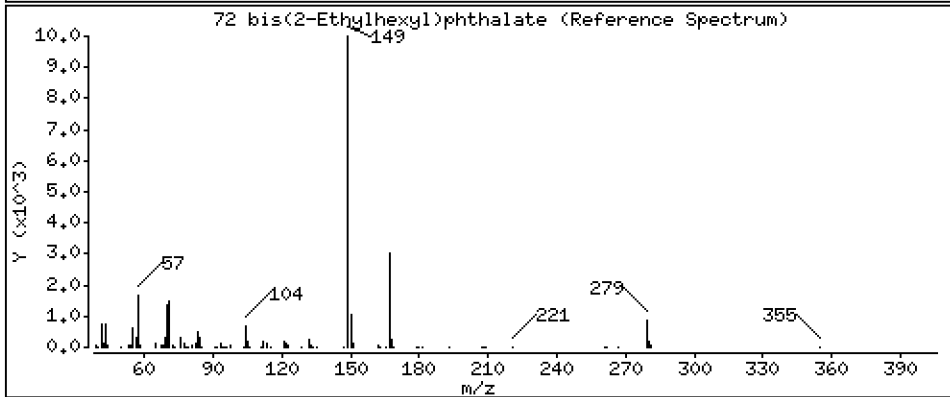
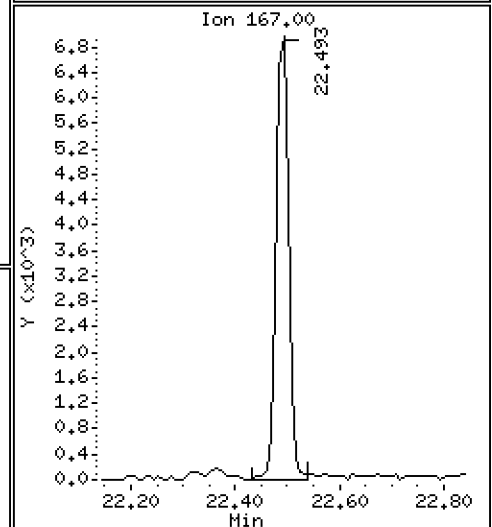
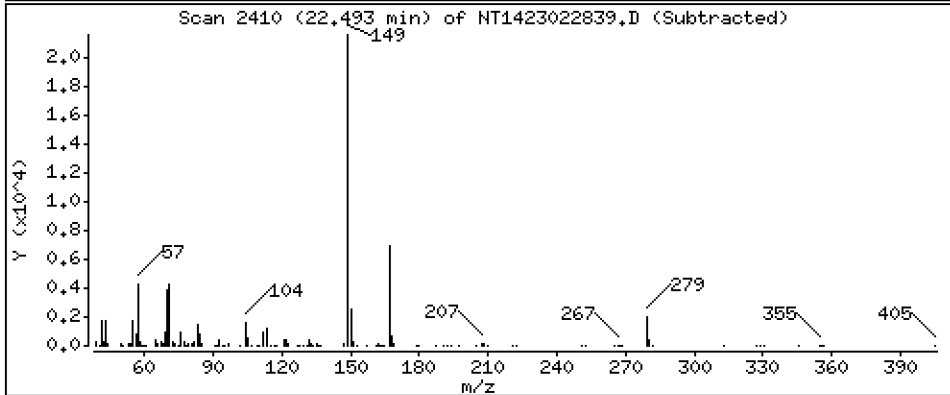
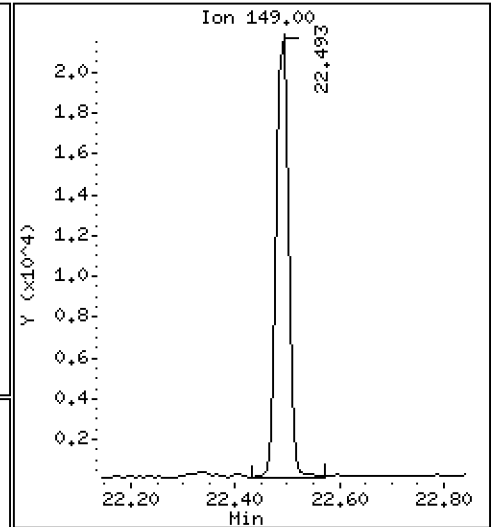
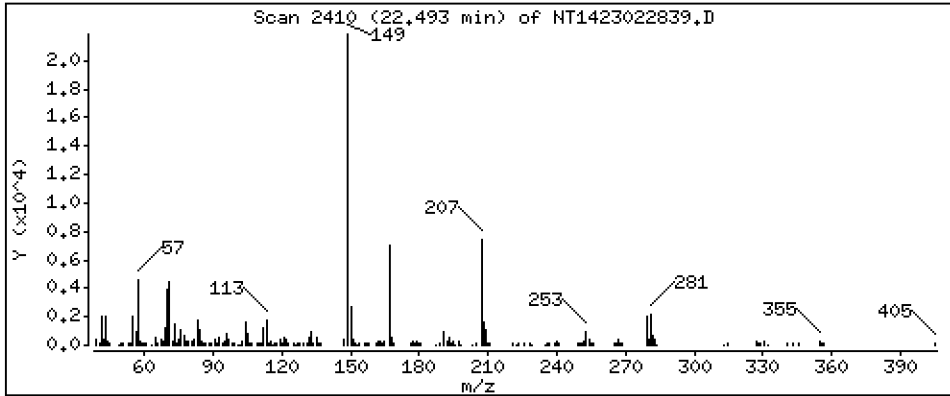
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,4583 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

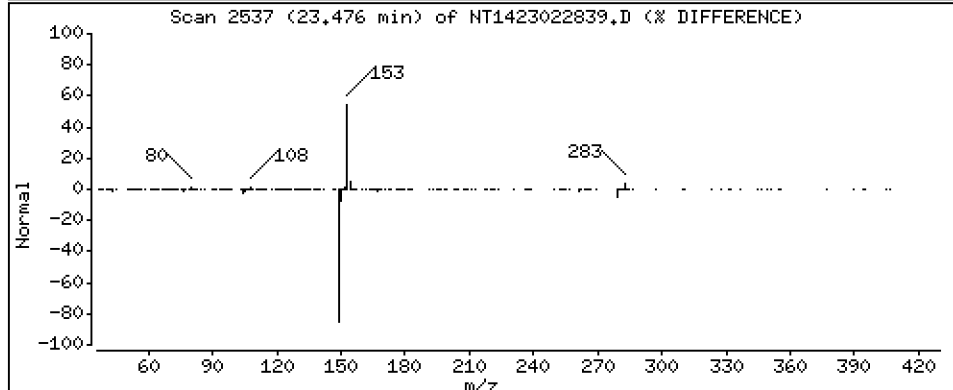
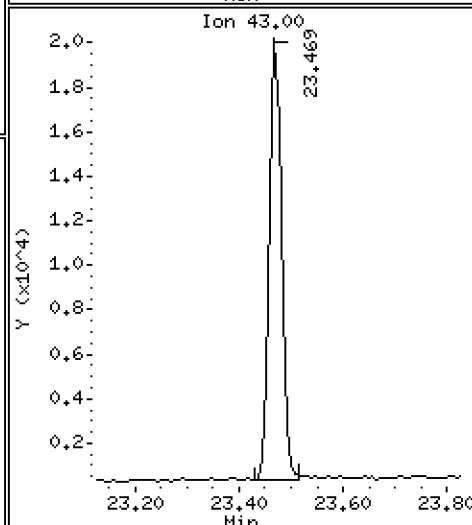
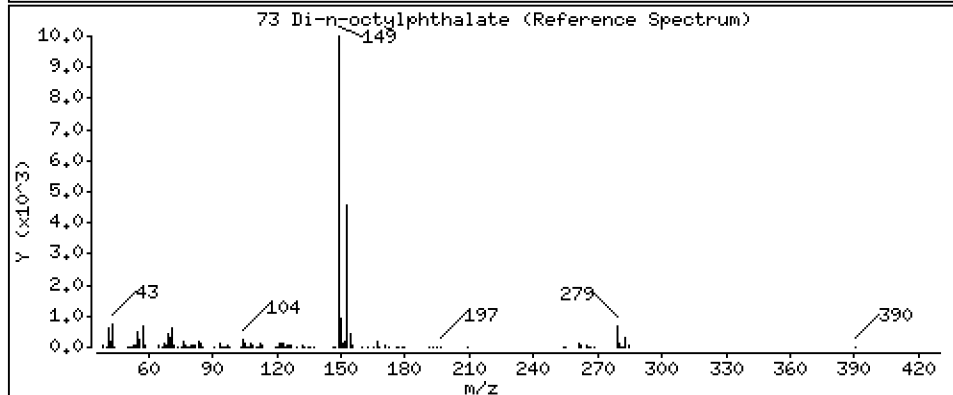
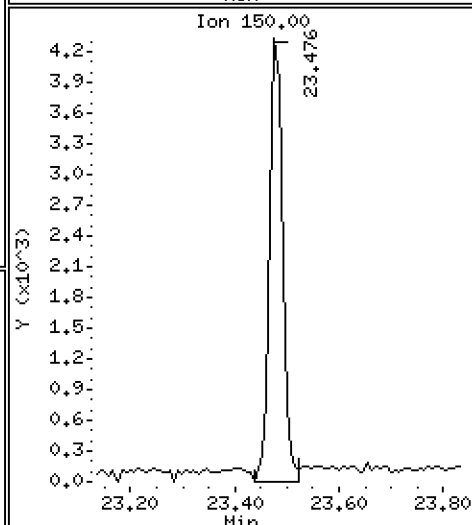
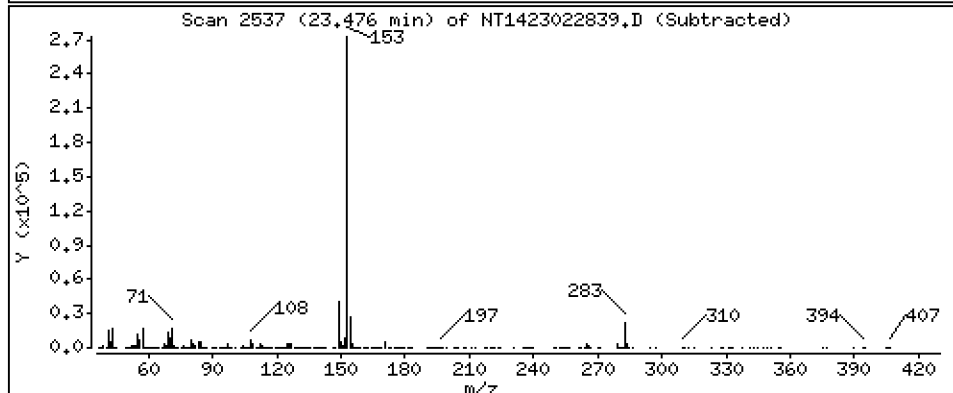
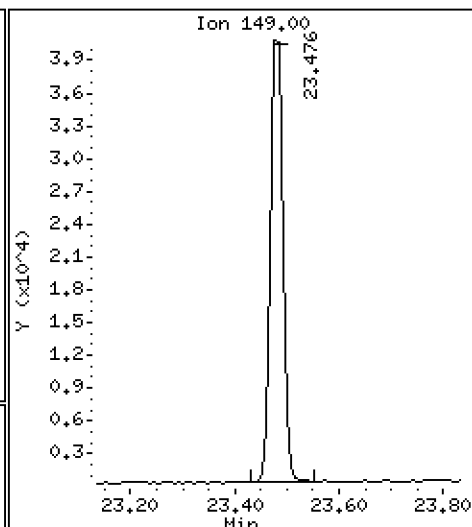
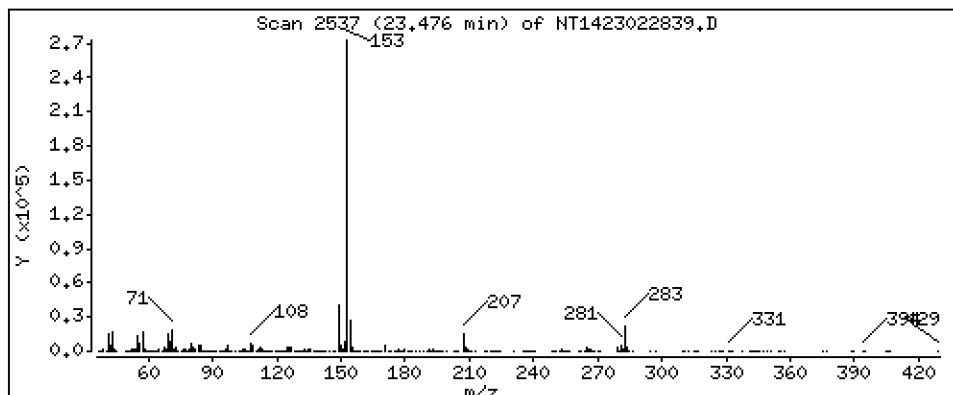
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,5038 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

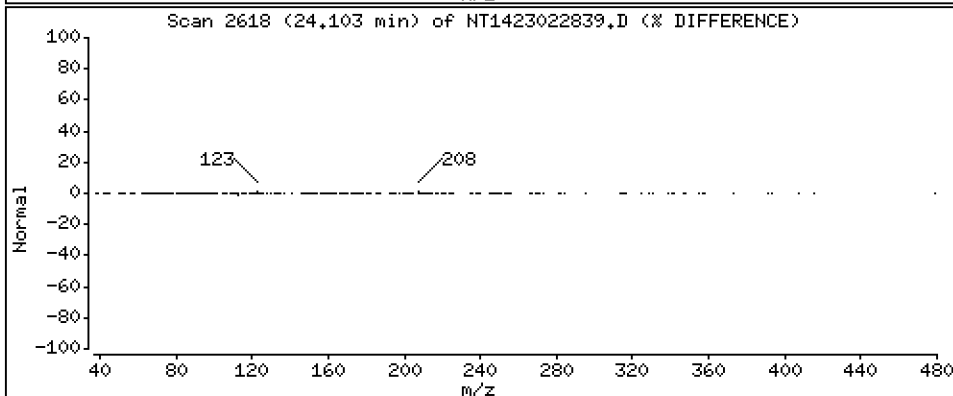
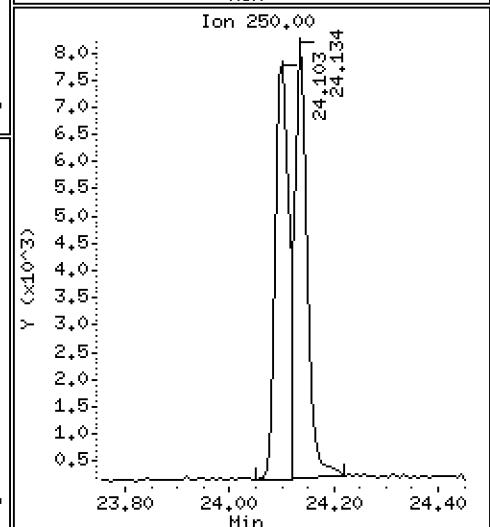
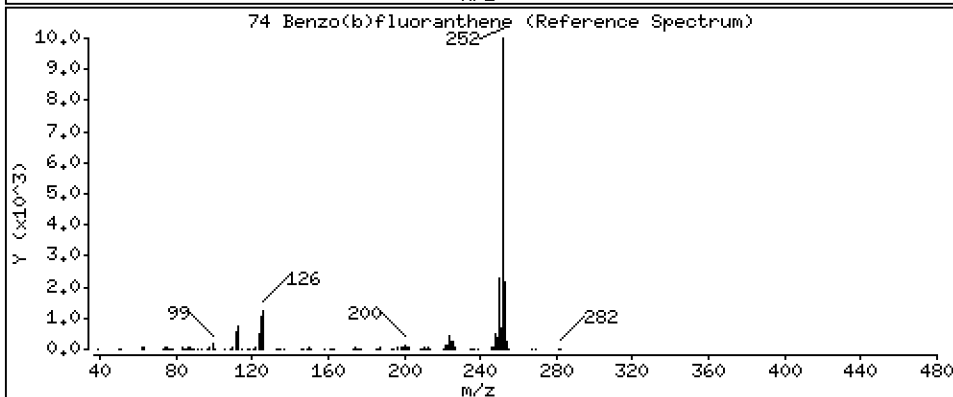
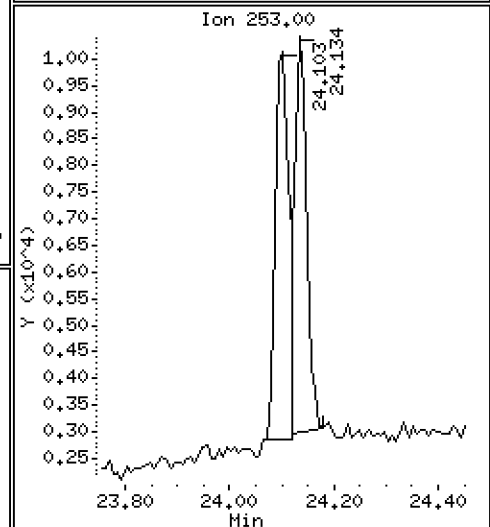
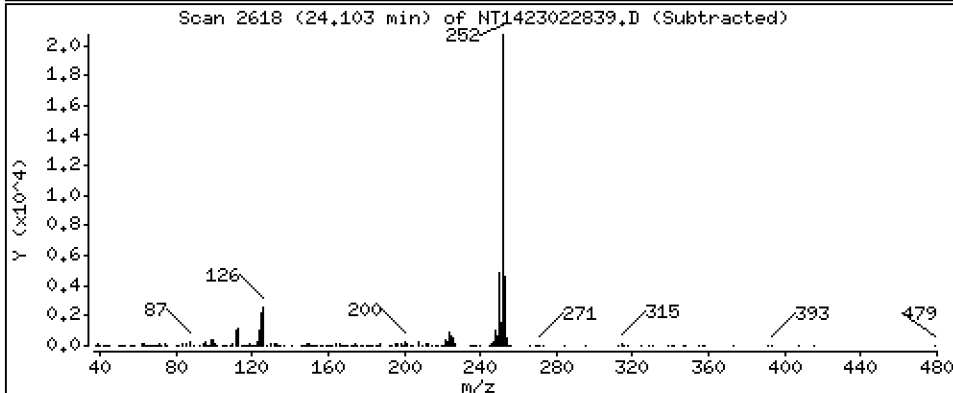
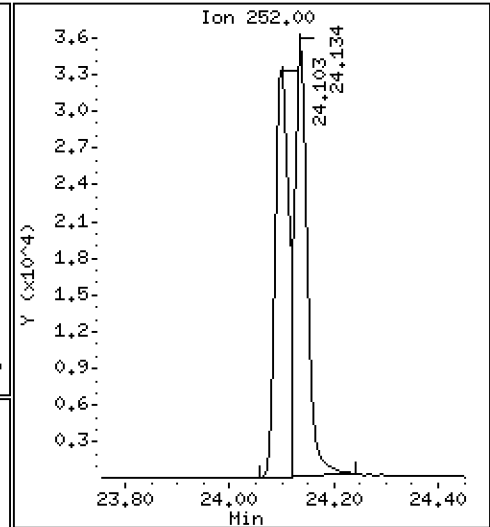
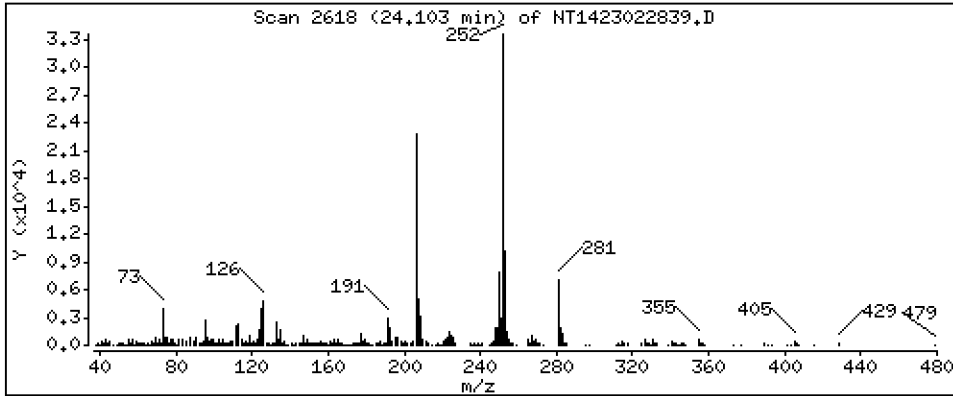
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,5748 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

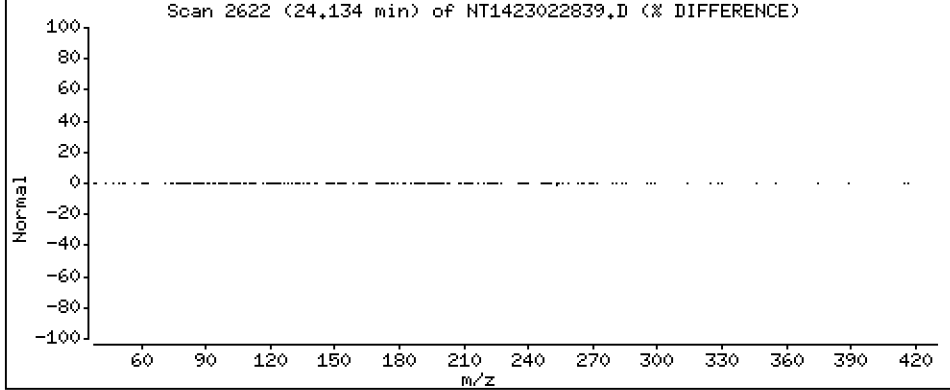
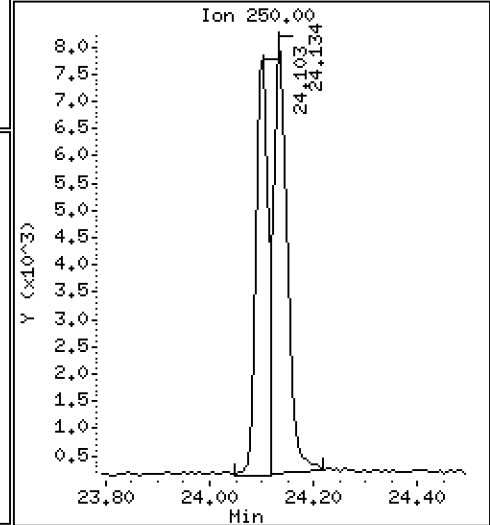
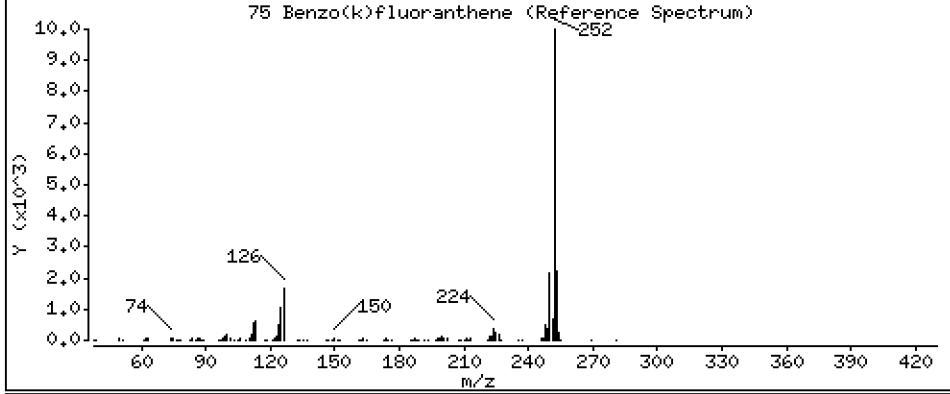
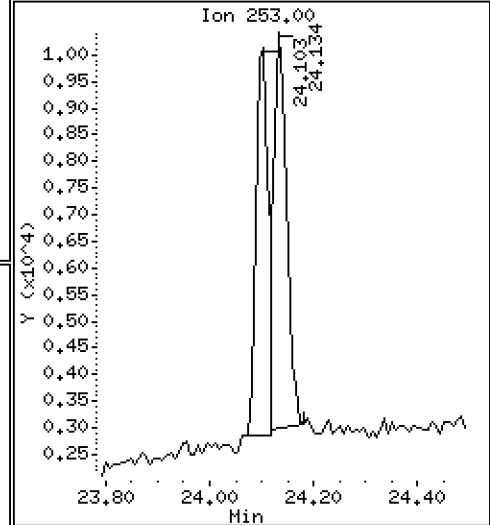
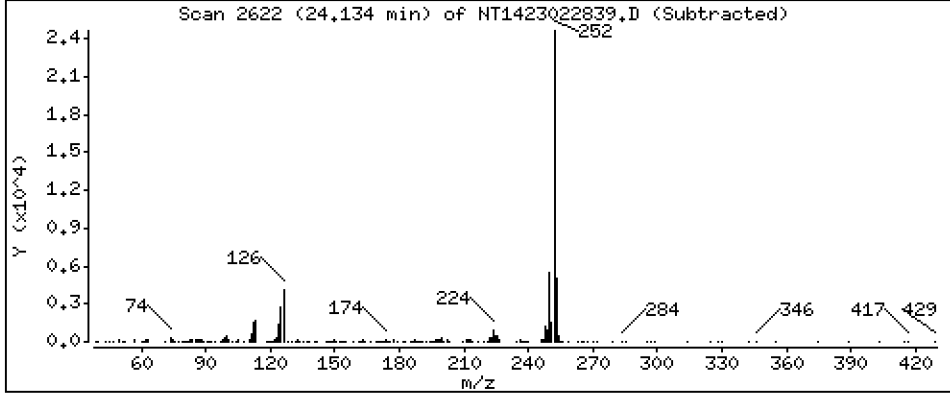
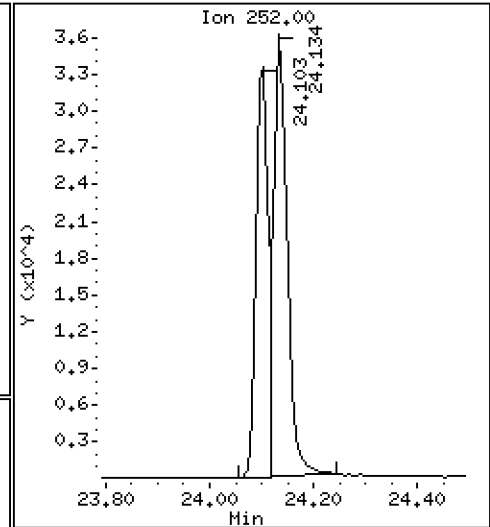
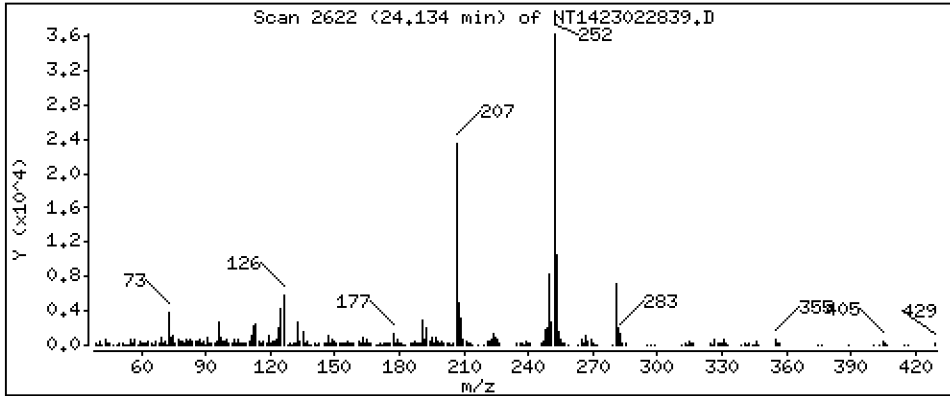
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,5863 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

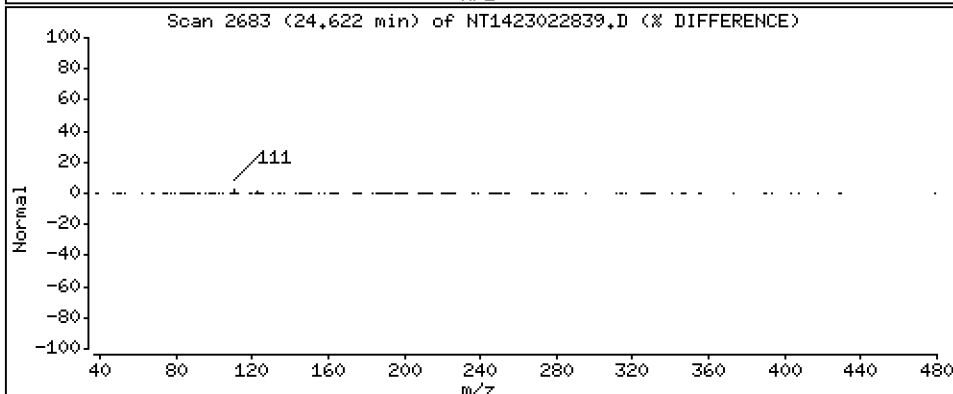
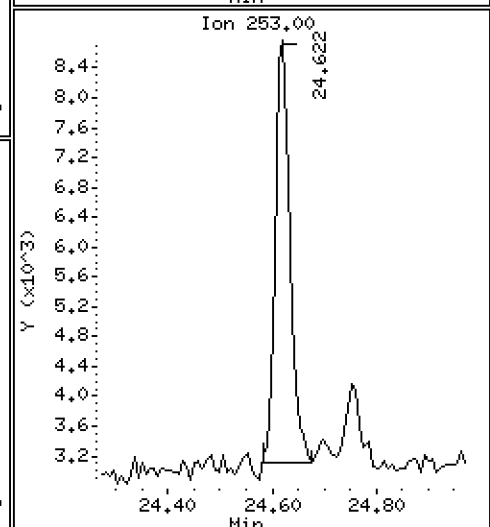
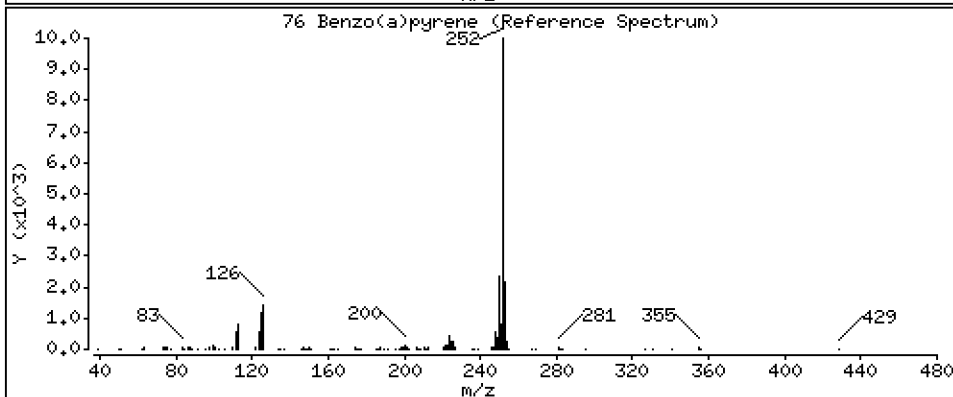
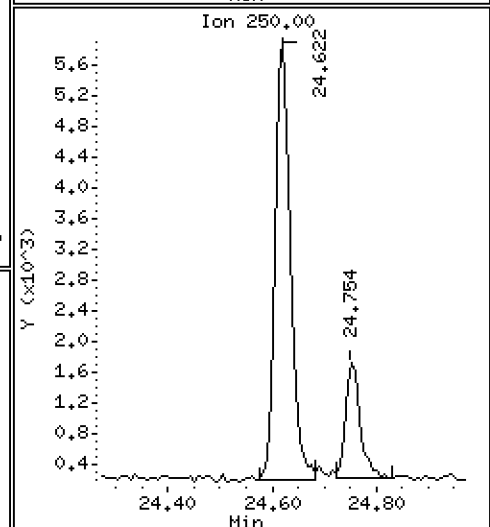
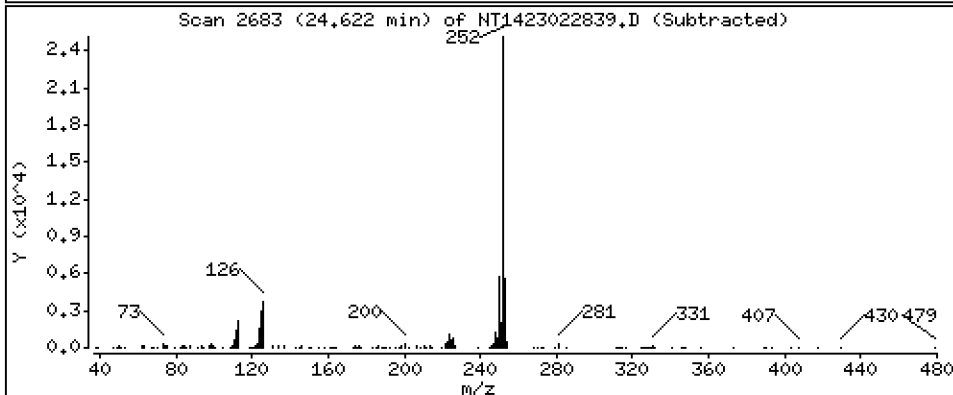
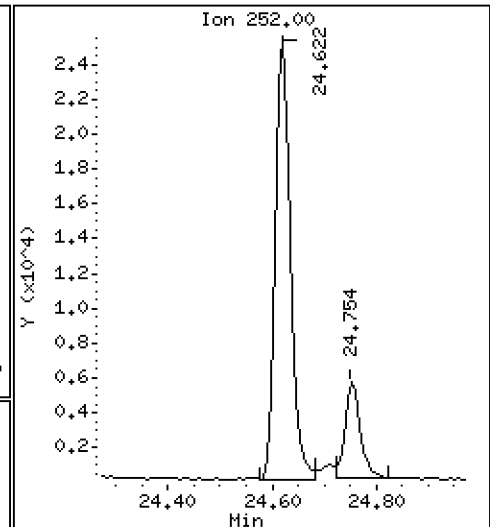
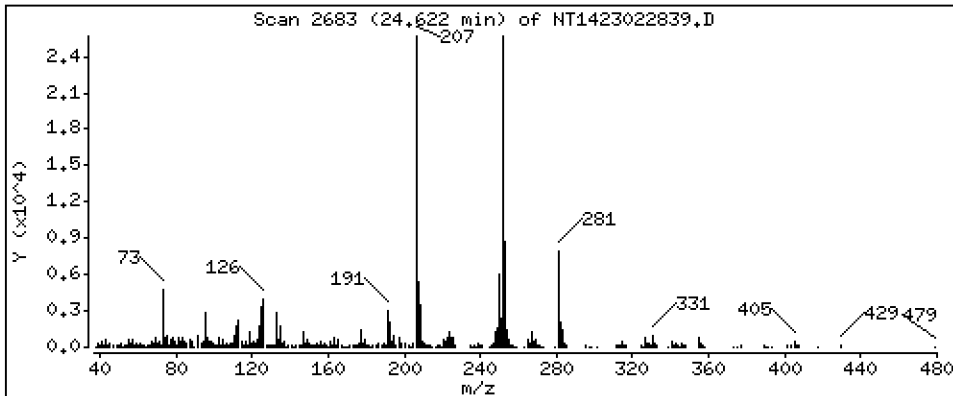
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,5437 ug/mL





Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

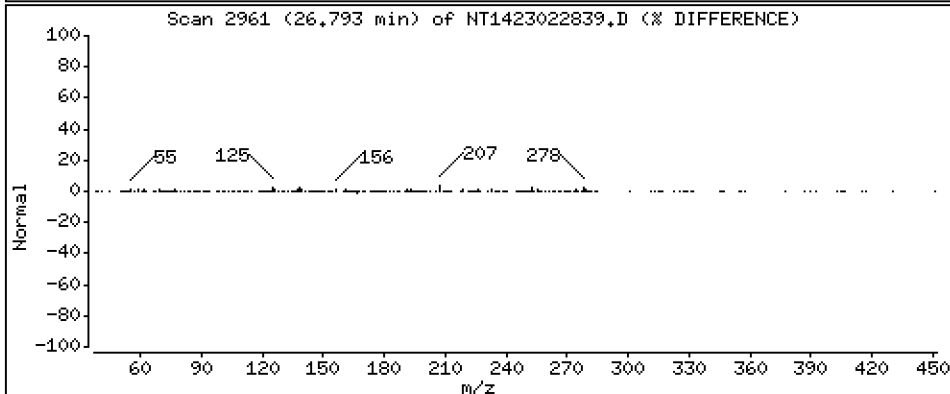
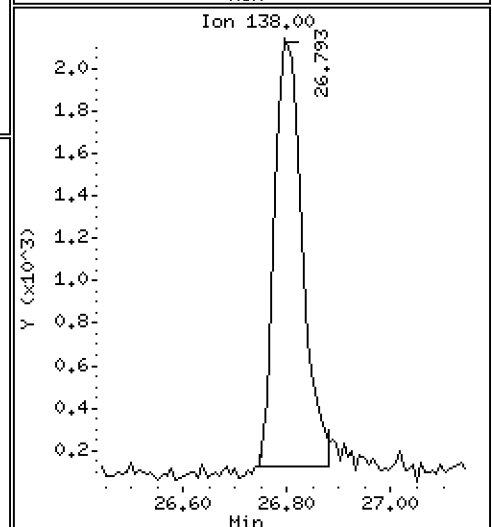
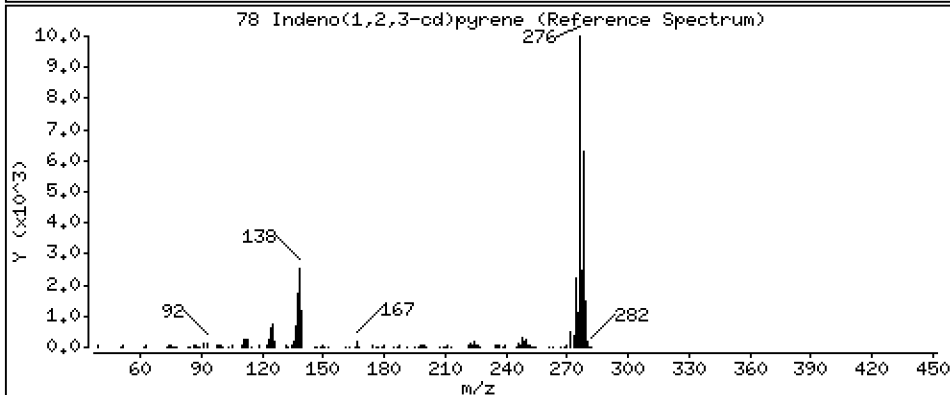
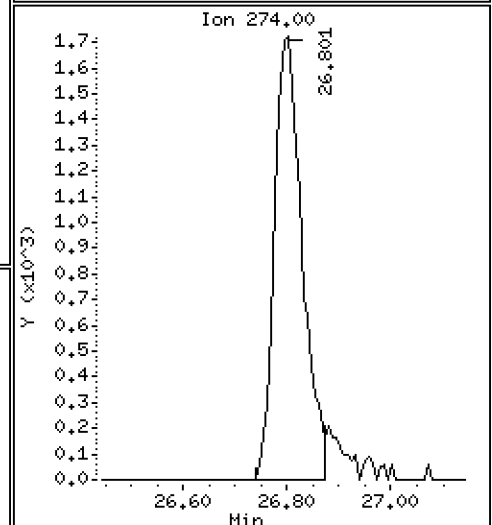
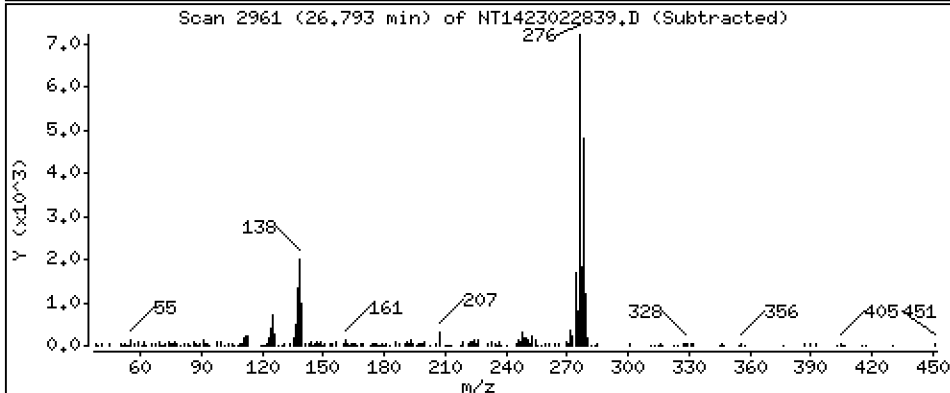
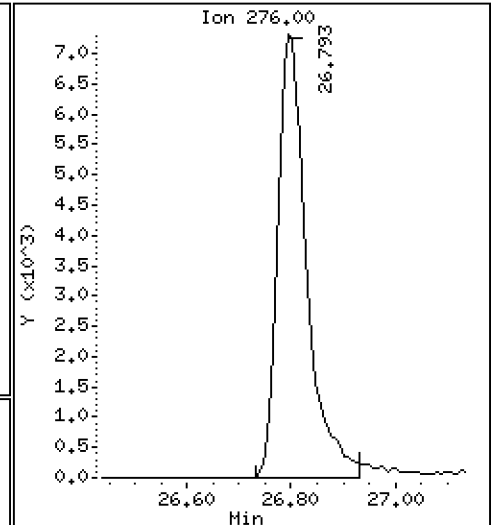
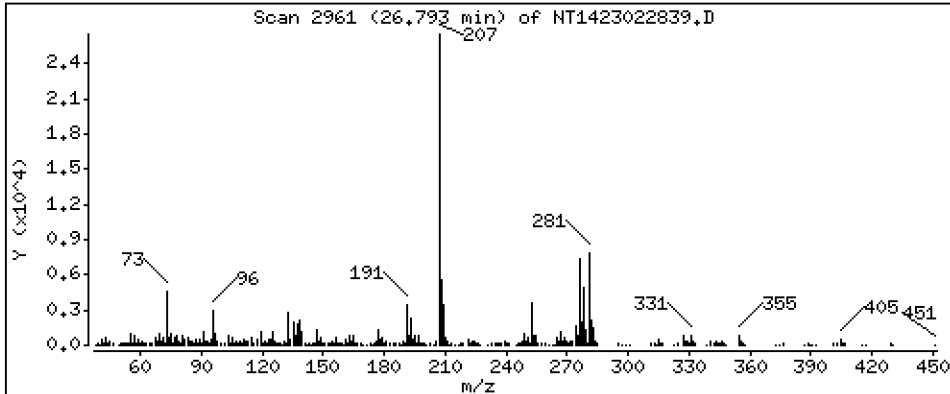
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,2520 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

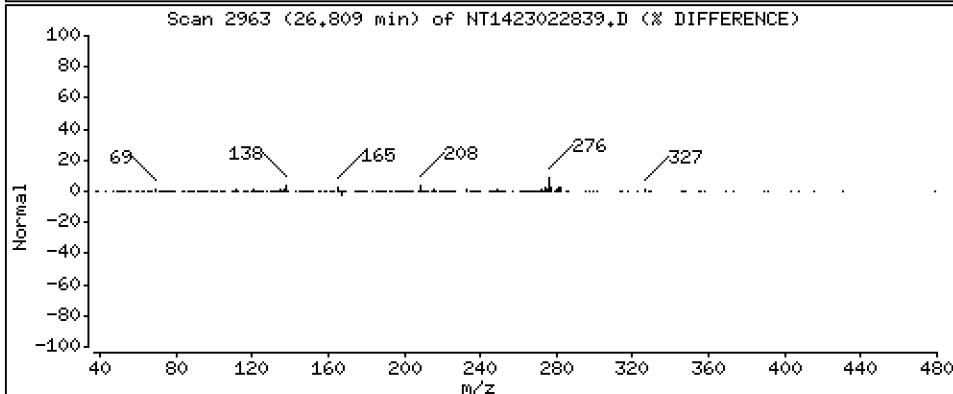
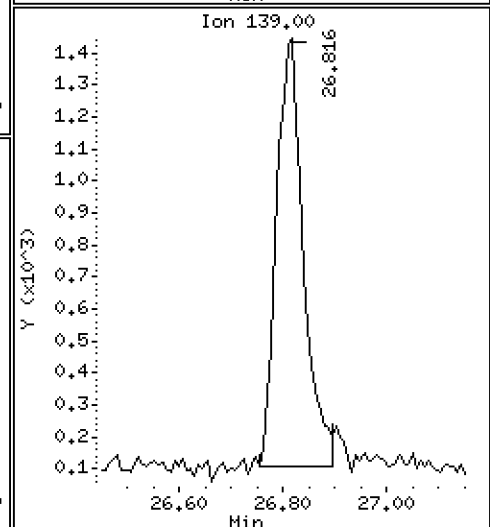
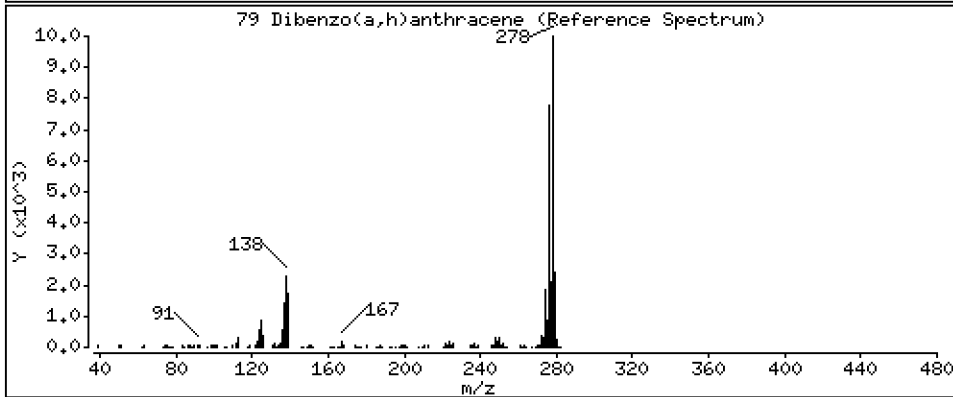
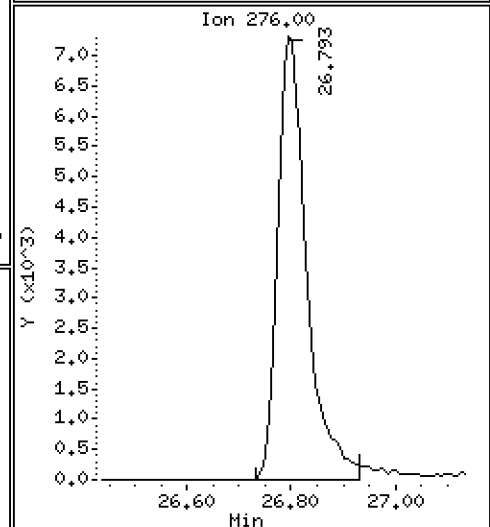
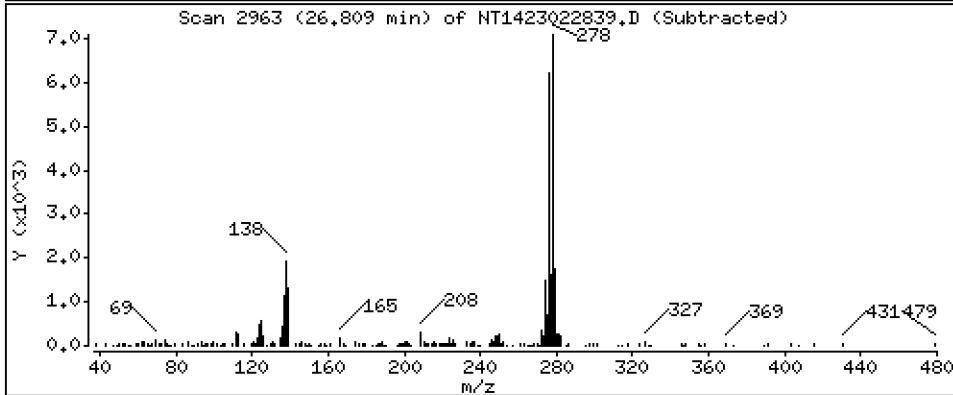
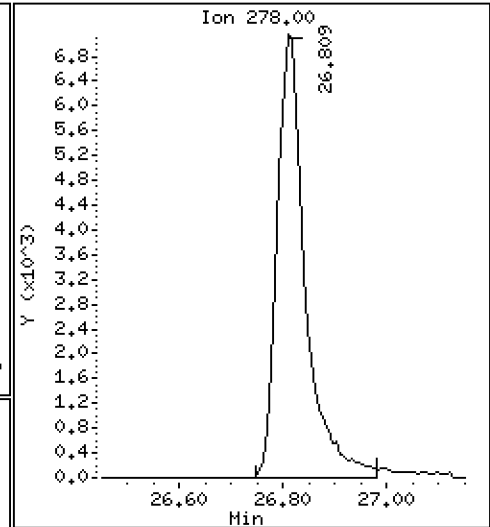
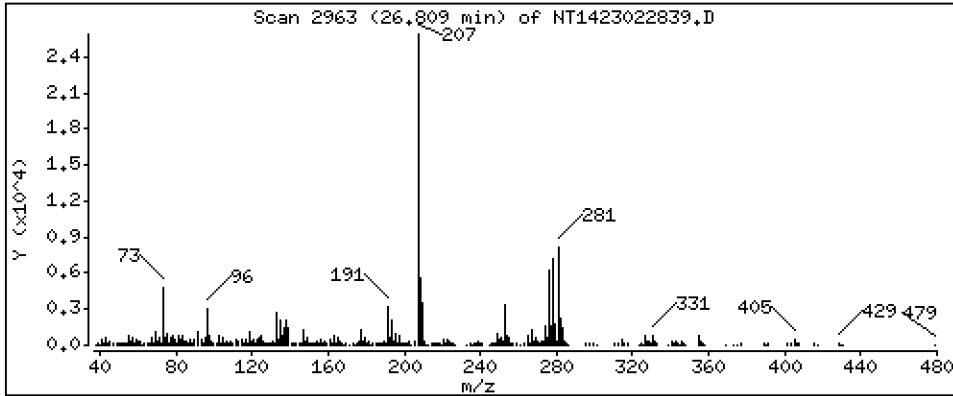
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2813 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

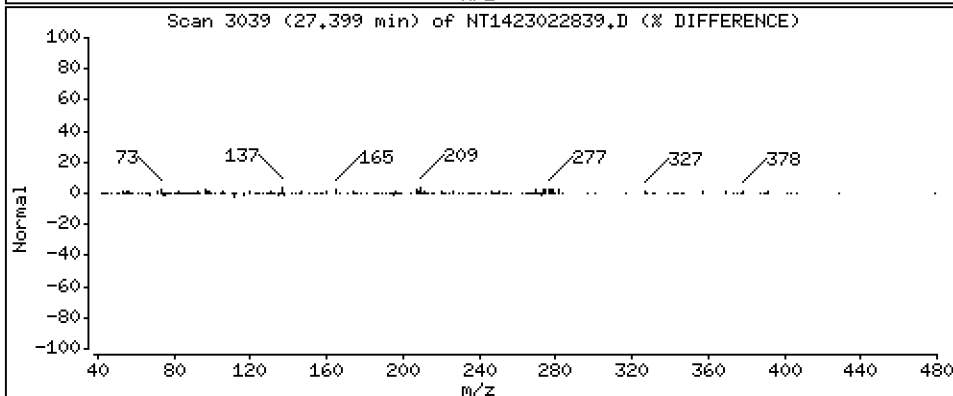
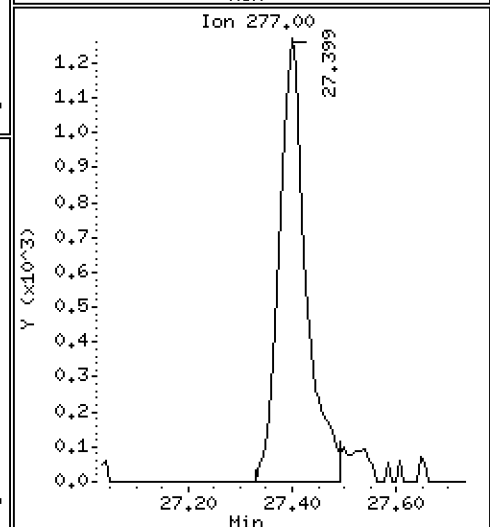
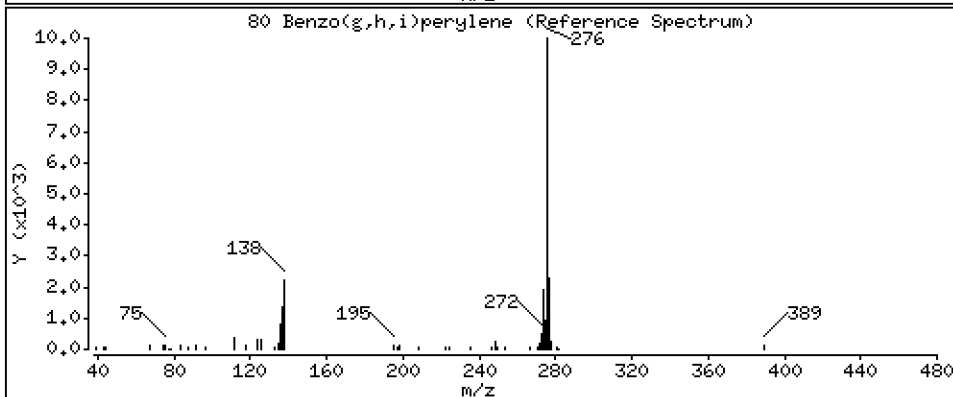
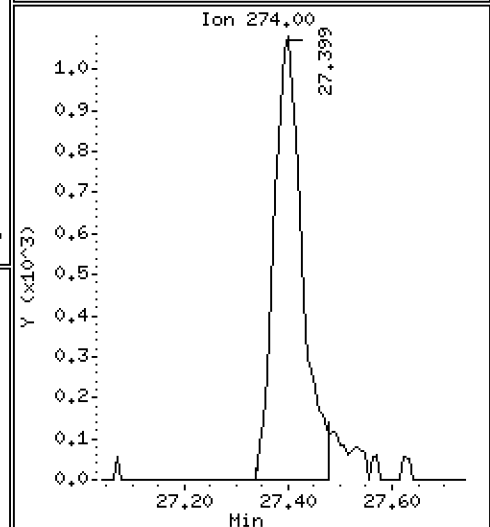
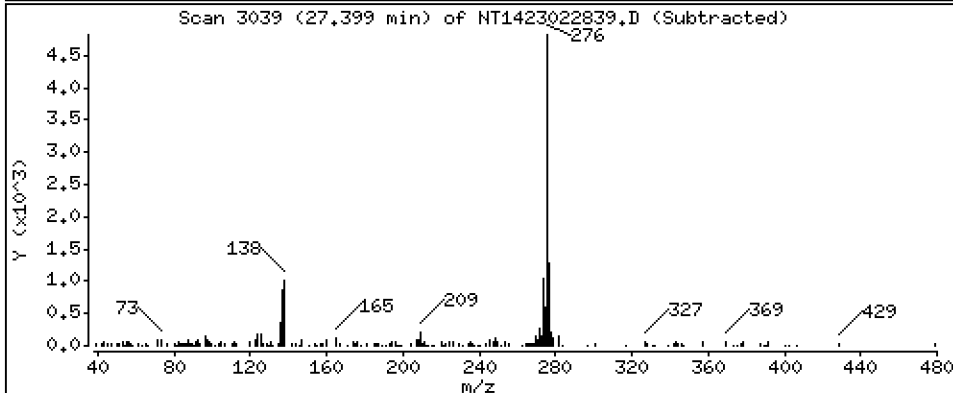
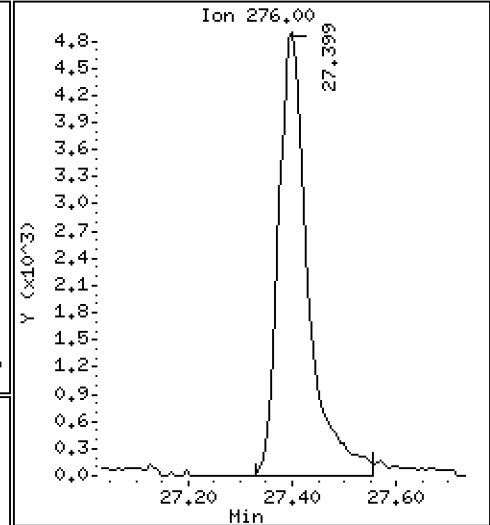
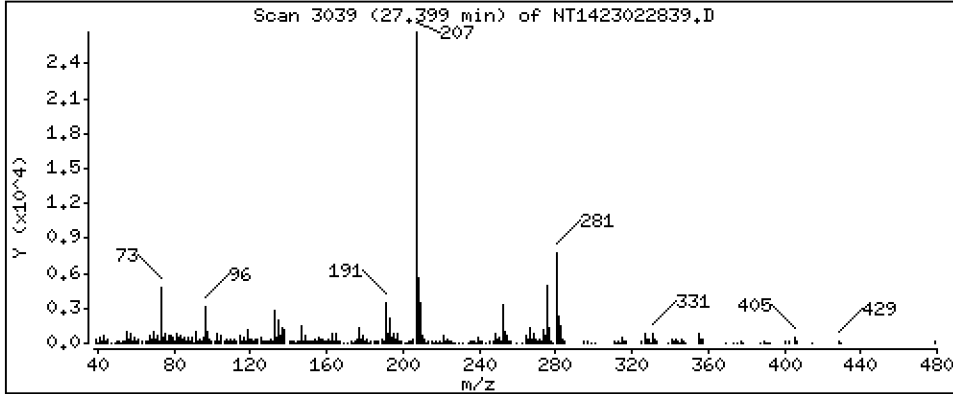
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,1986 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

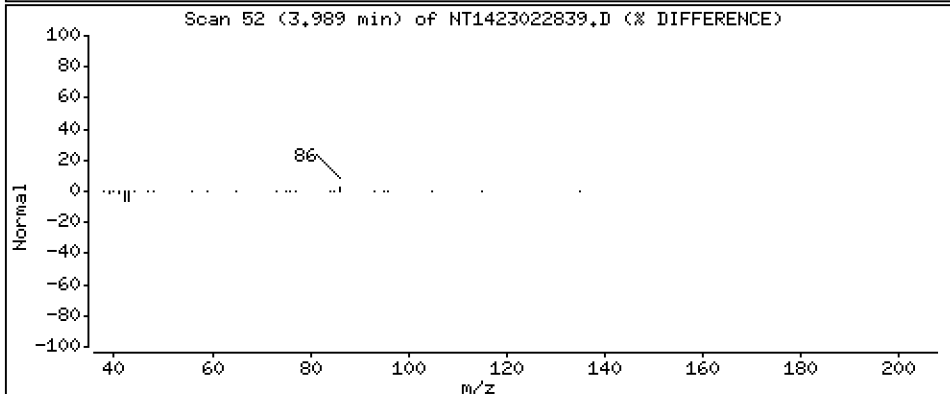
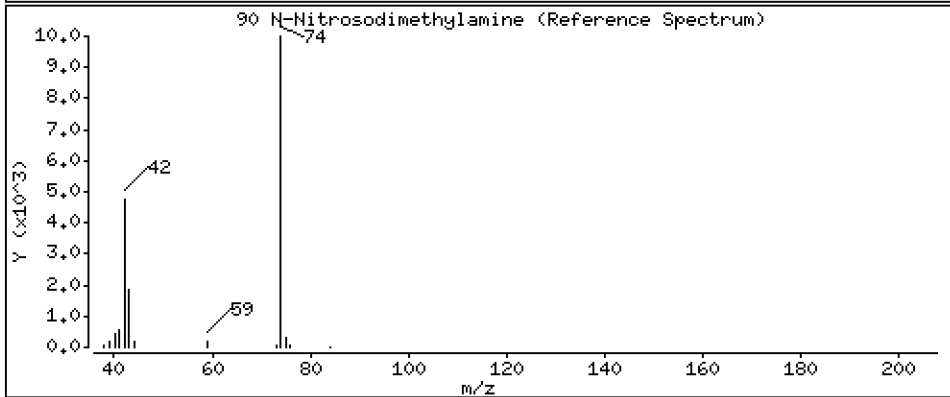
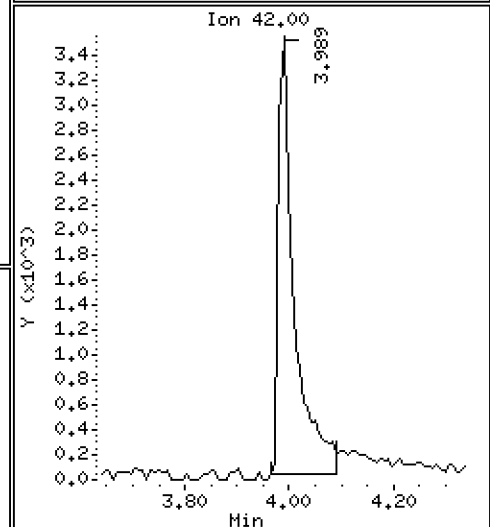
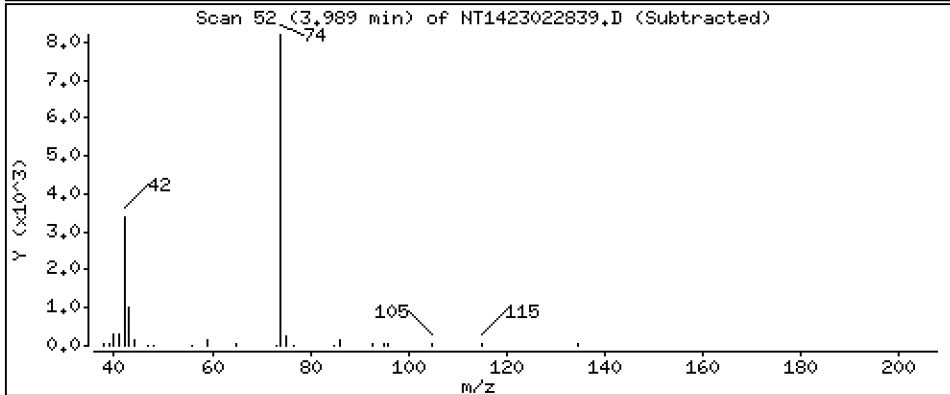
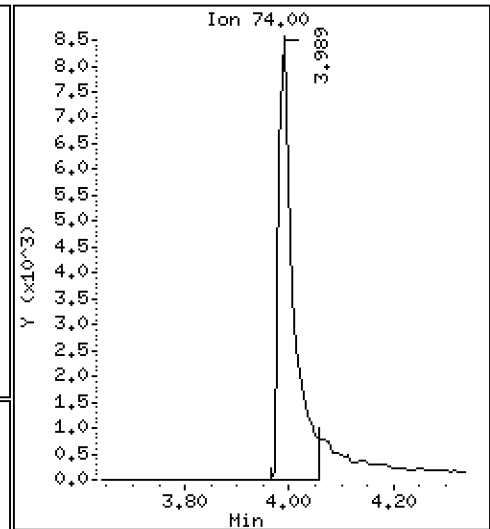
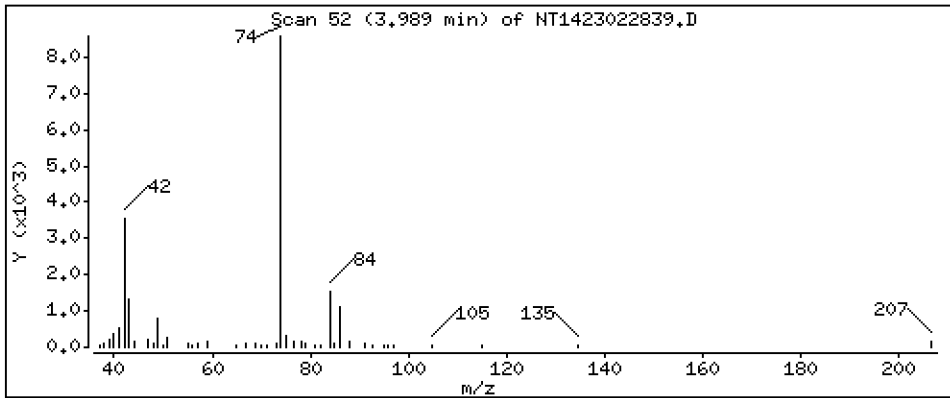
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,6900 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

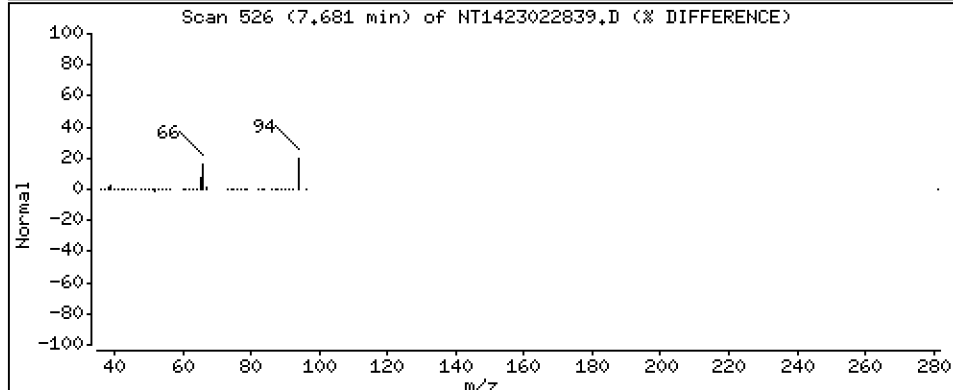
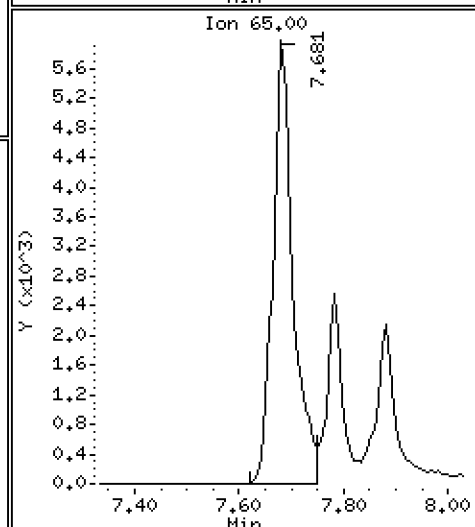
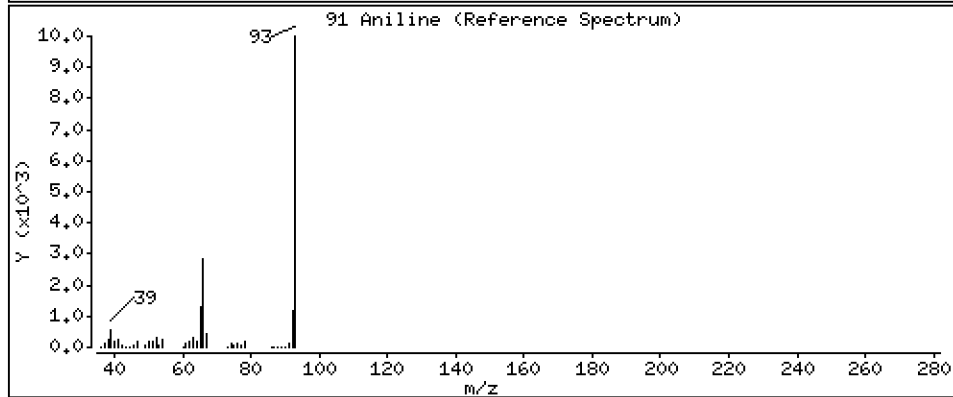
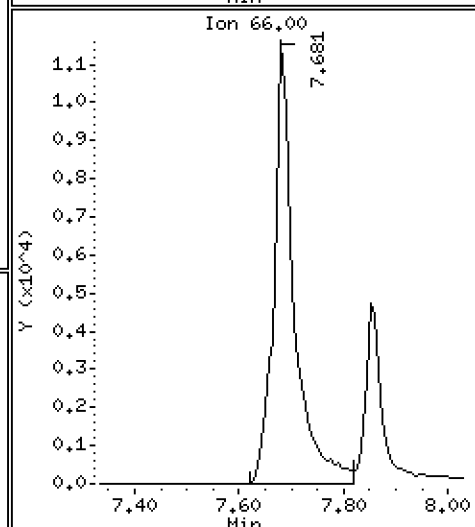
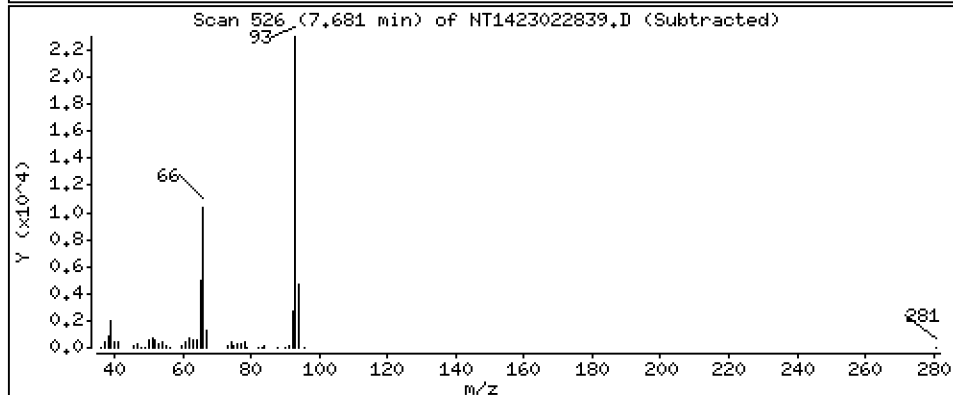
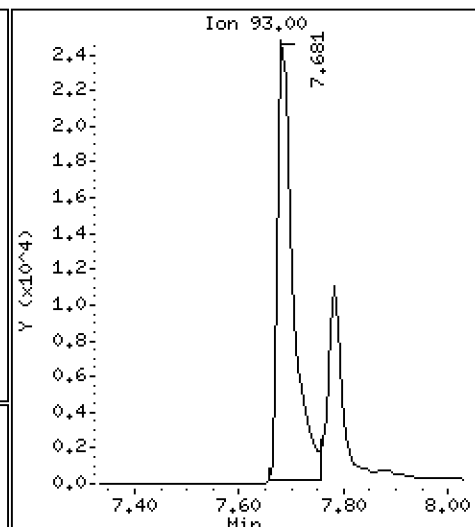
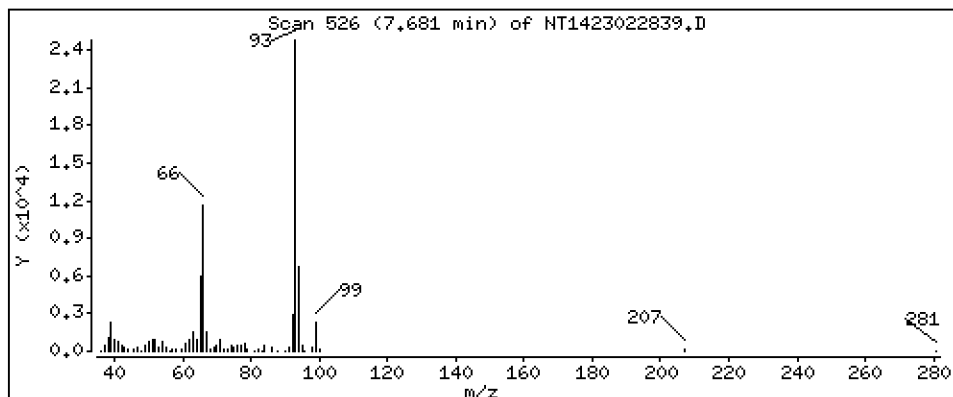
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,9125 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

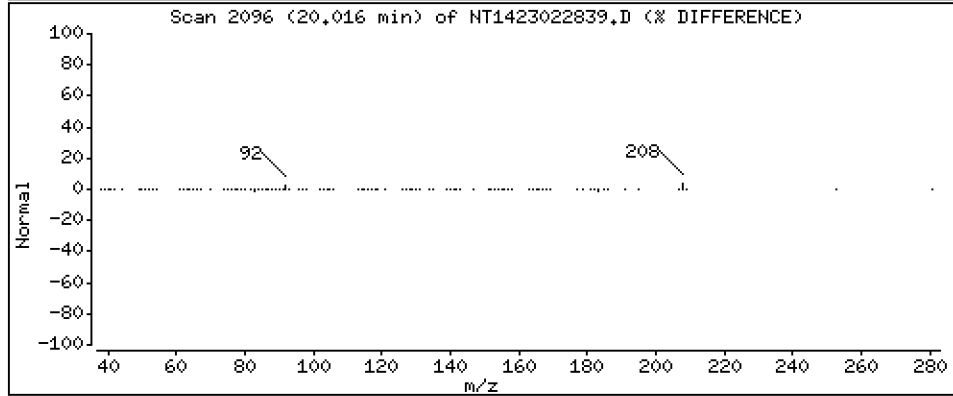
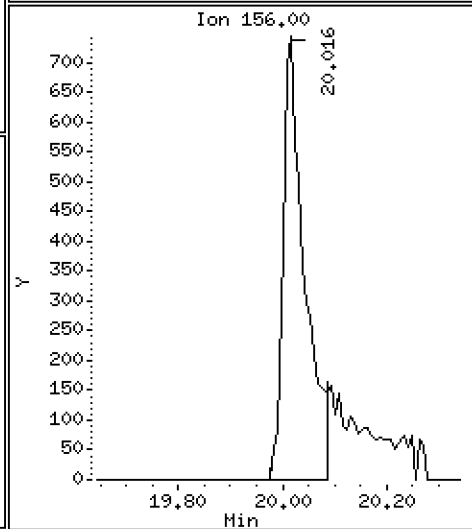
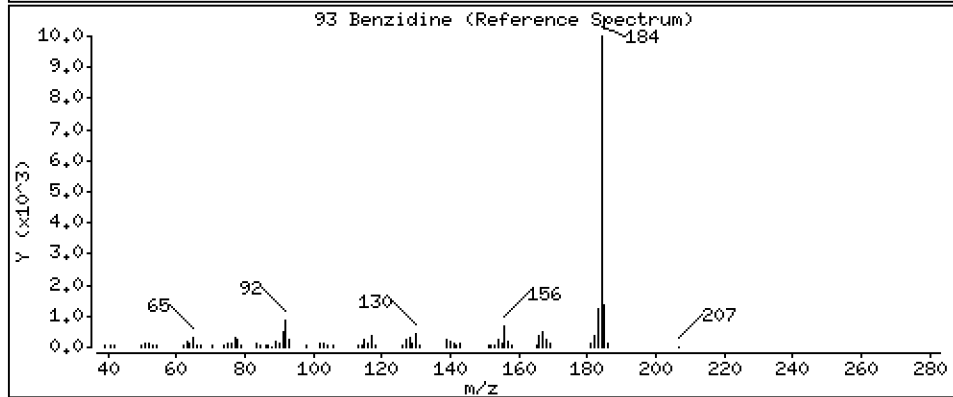
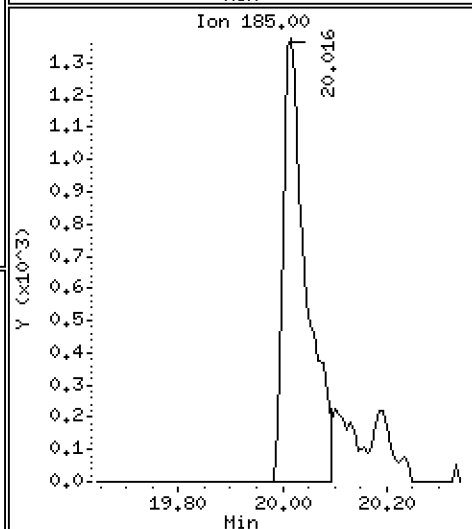
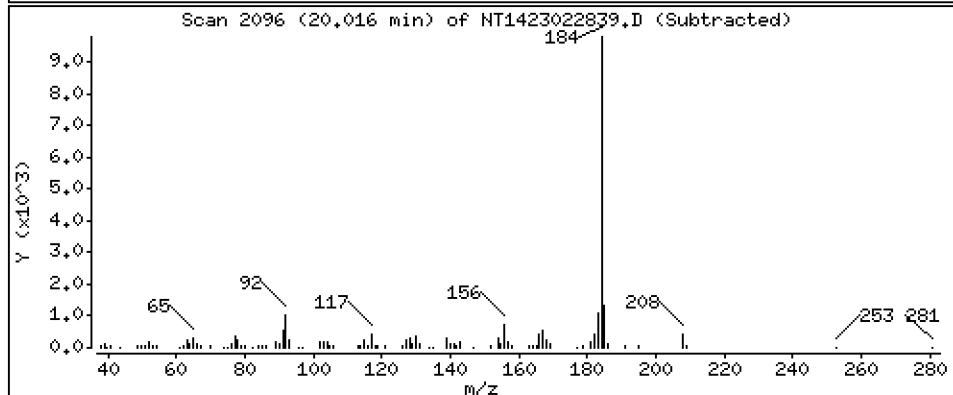
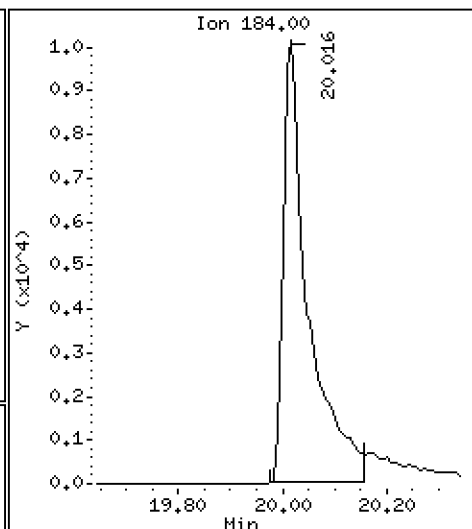
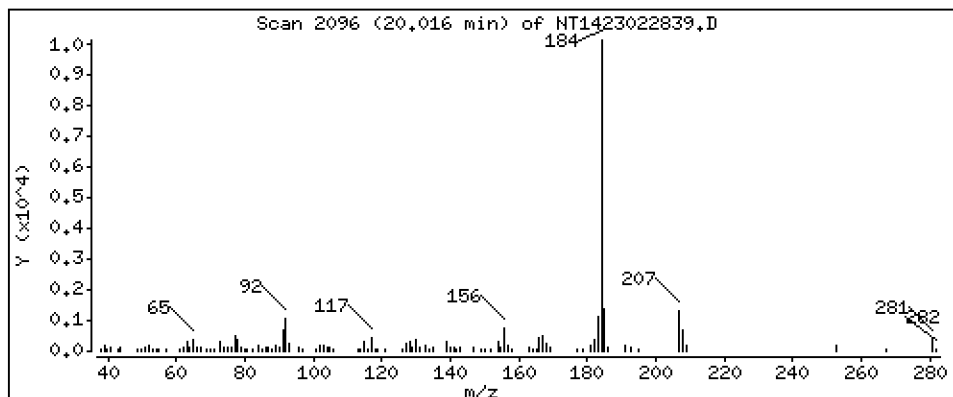
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,6124 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

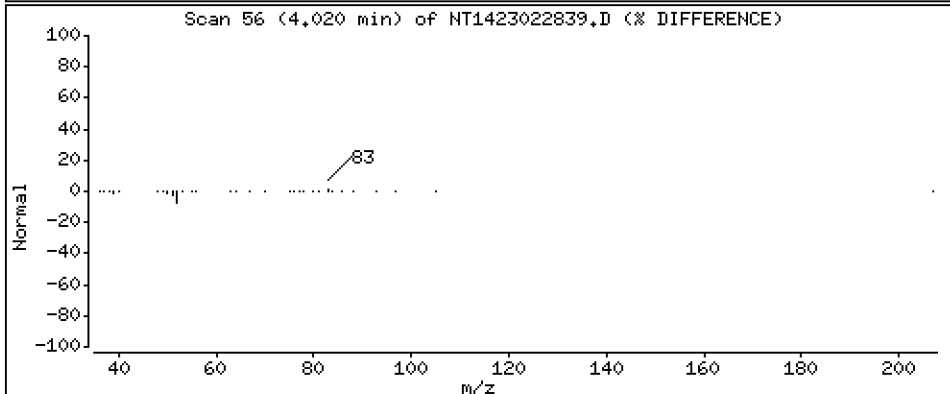
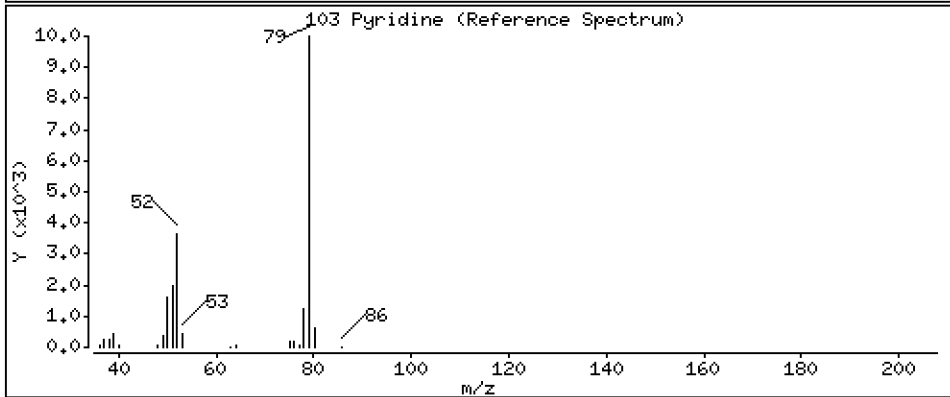
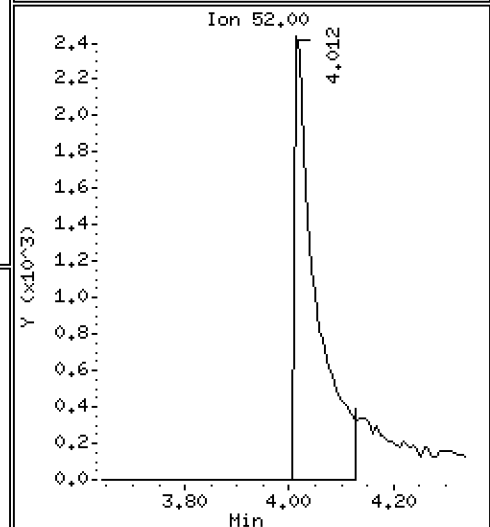
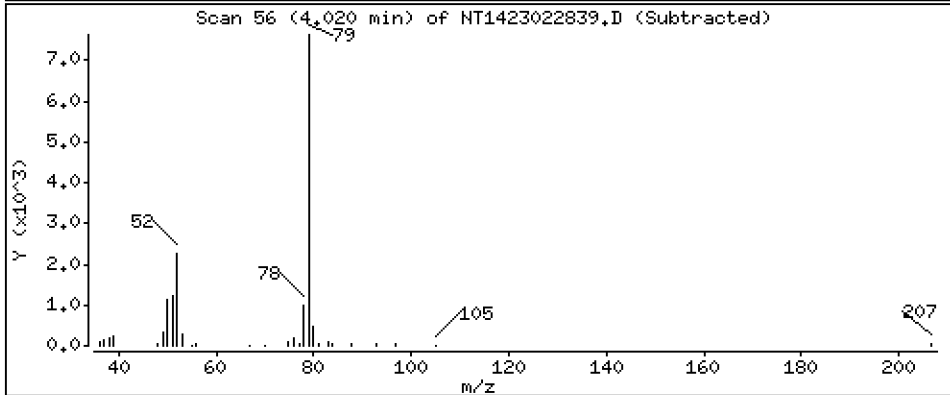
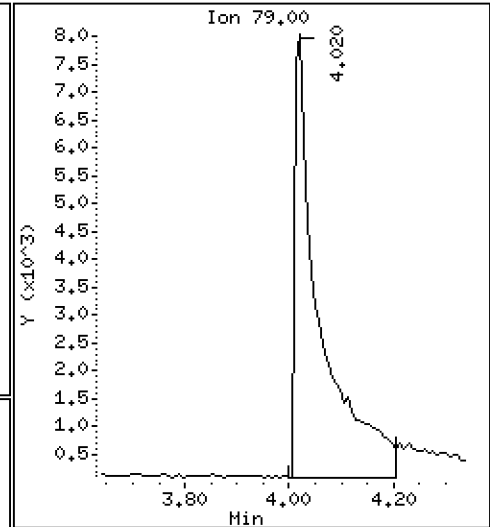
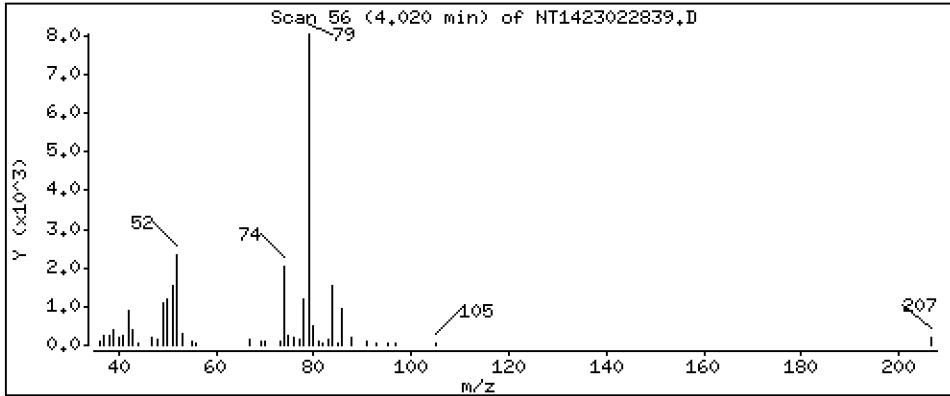
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,3914 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

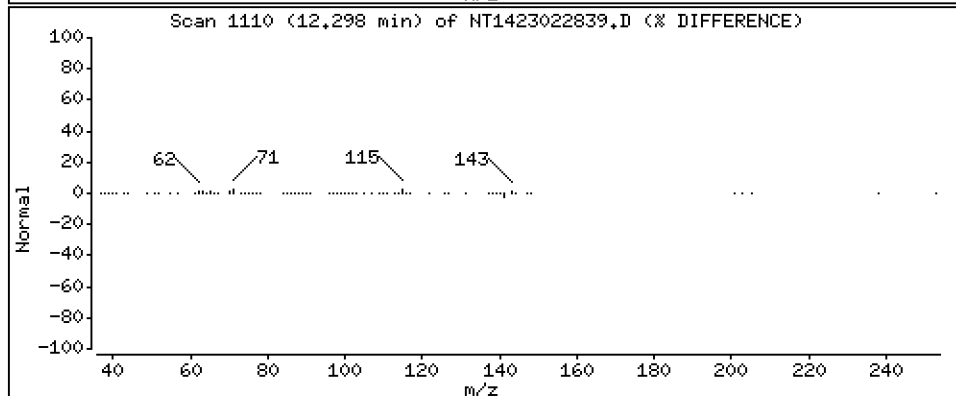
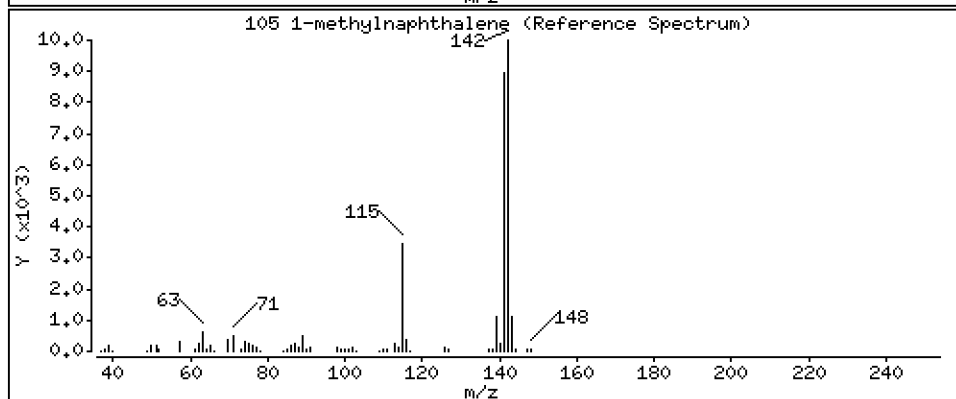
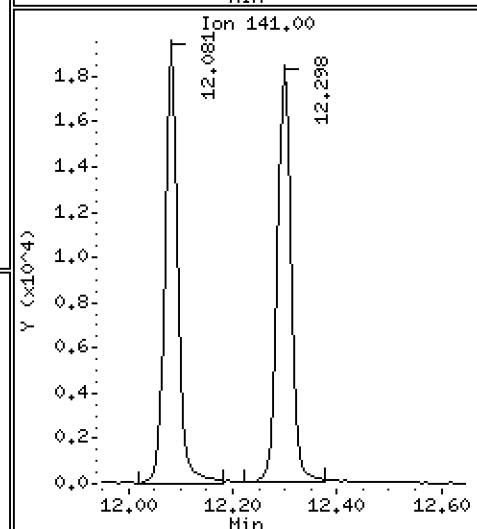
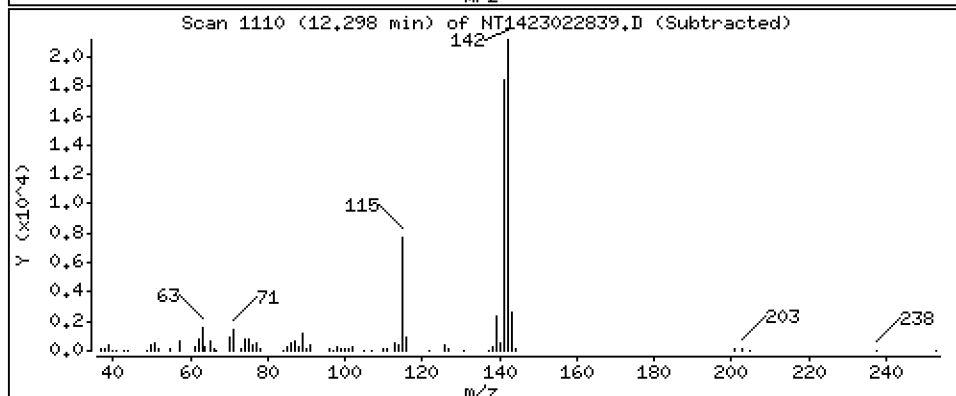
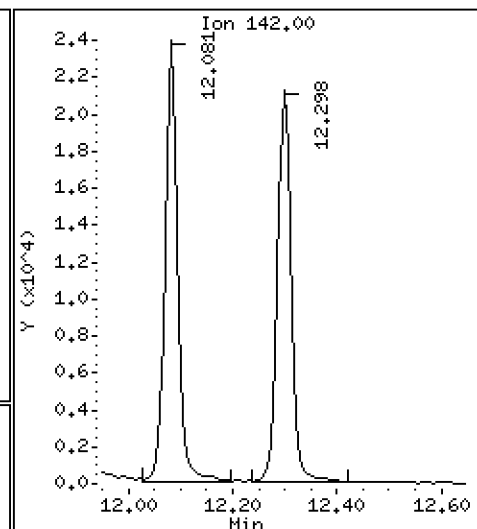
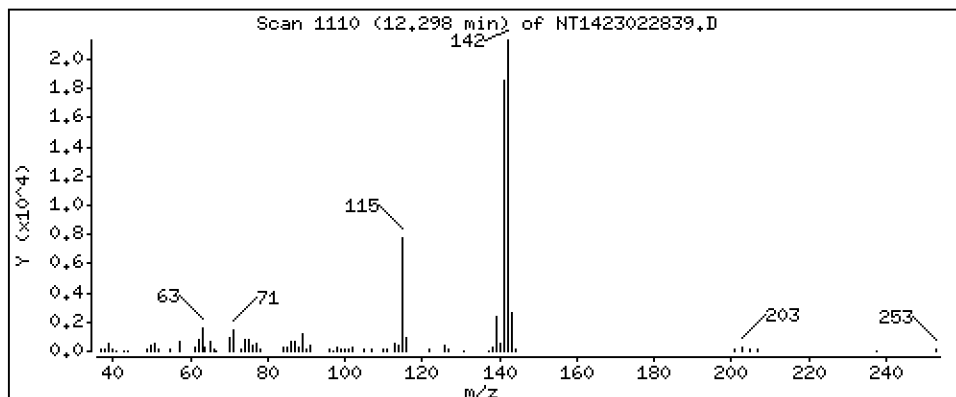
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,5086 ug/mL





Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

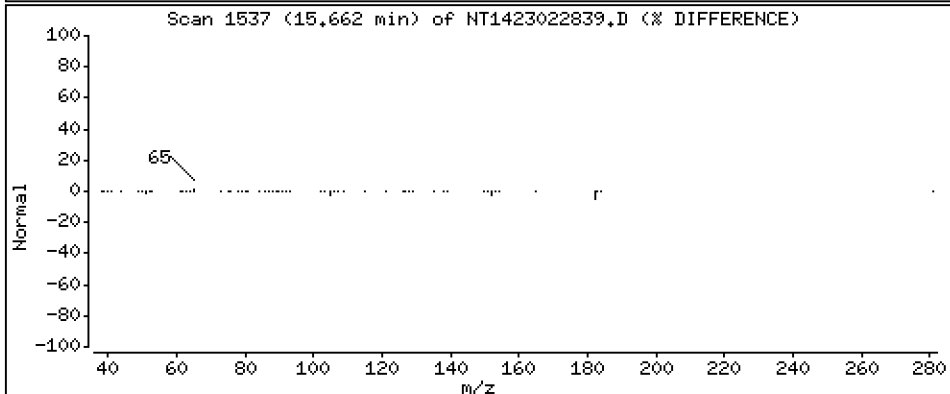
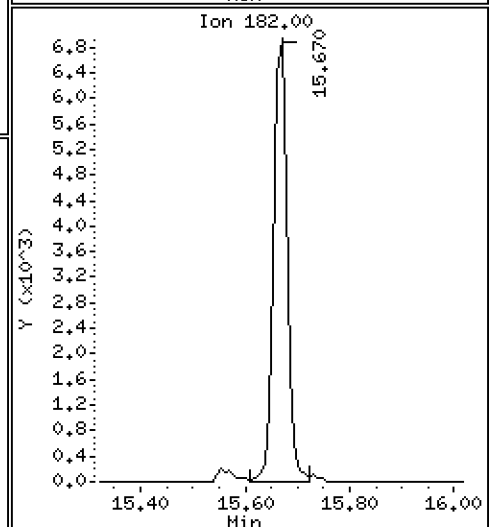
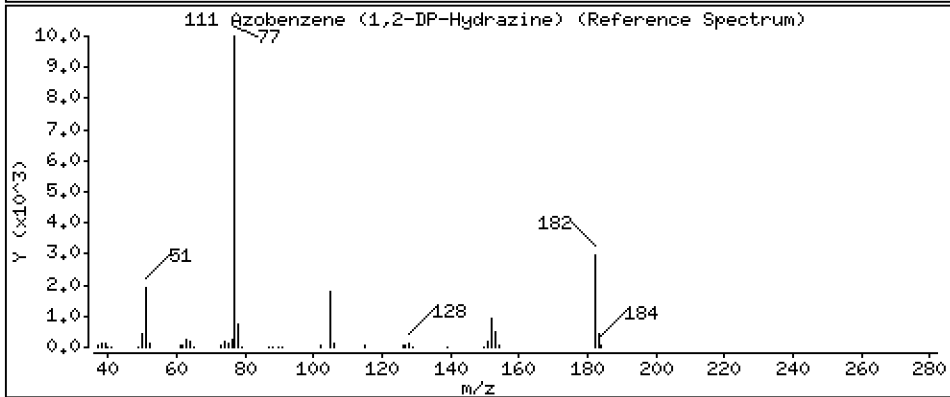
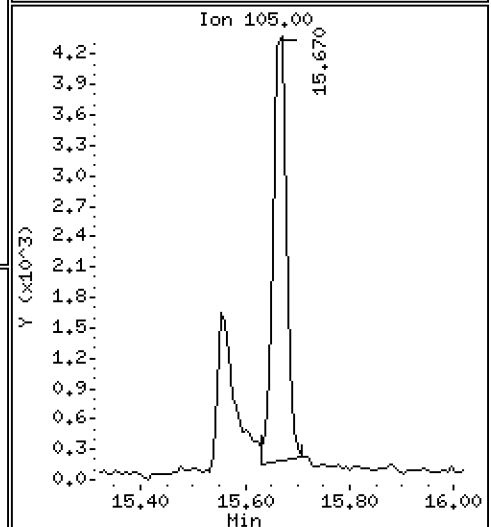
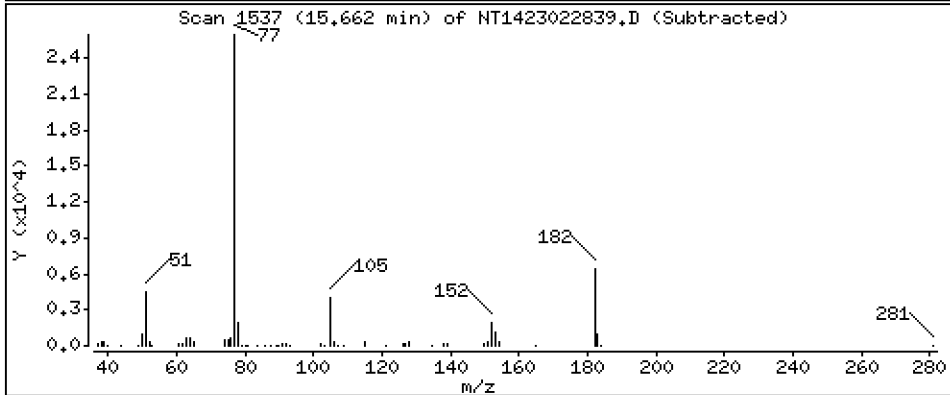
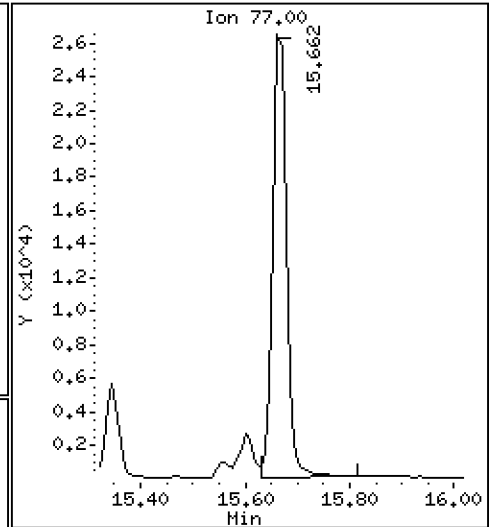
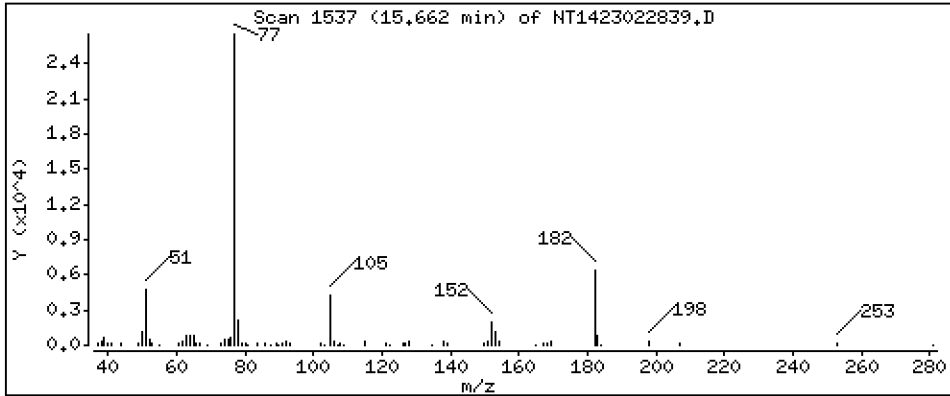
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,5890 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

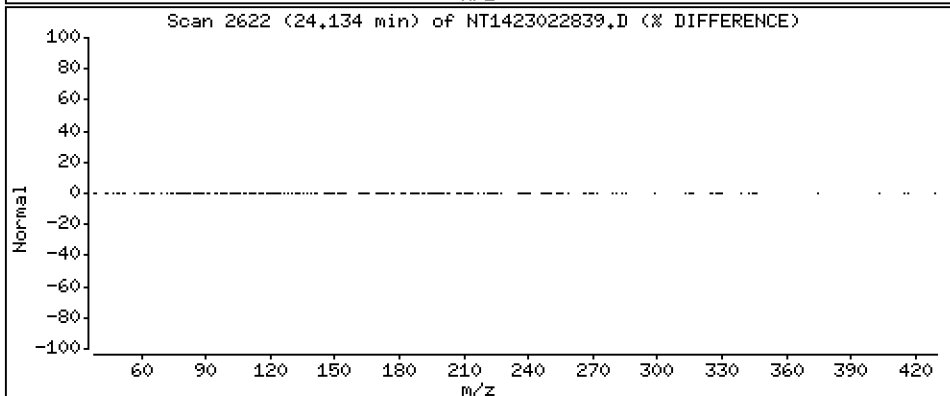
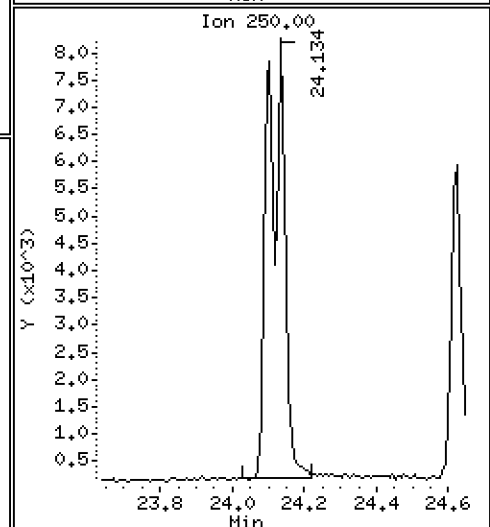
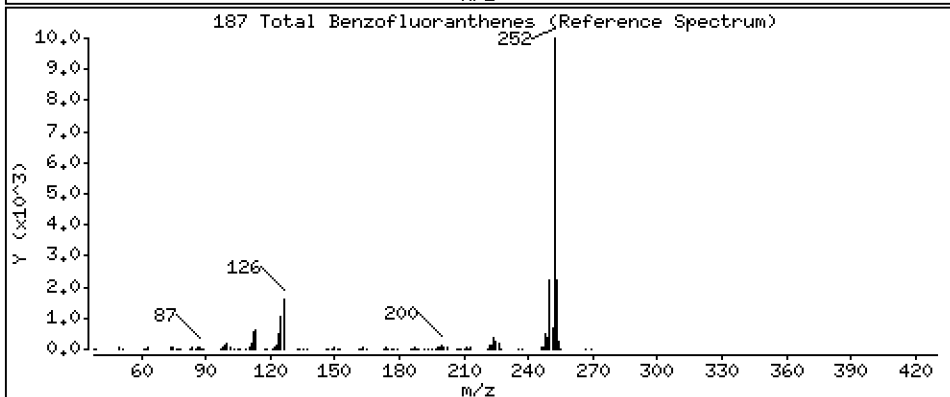
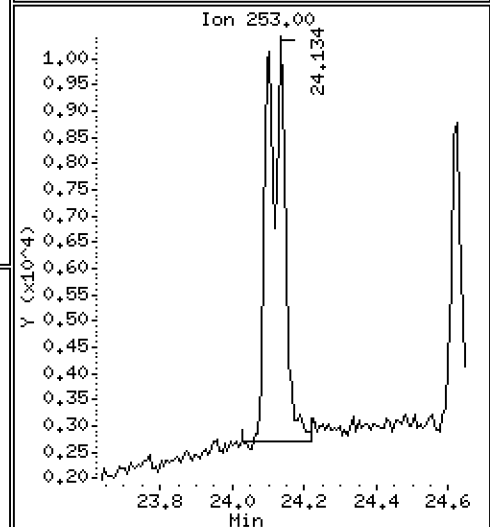
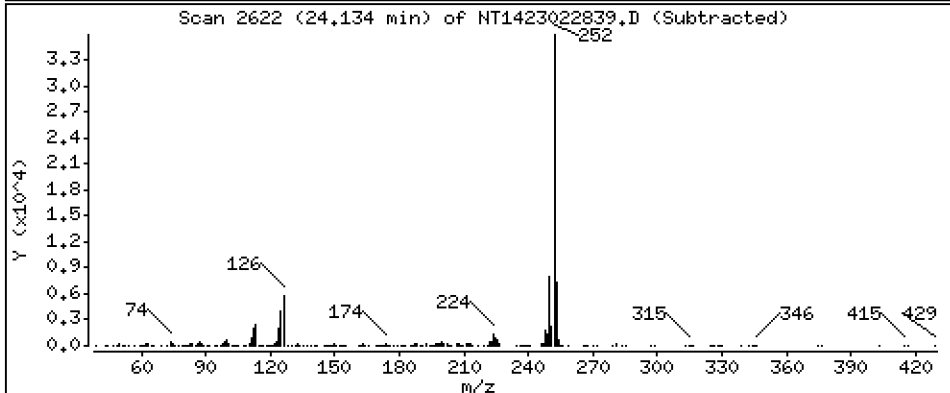
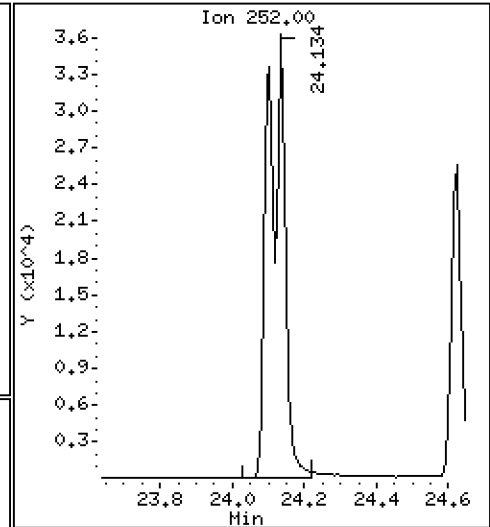
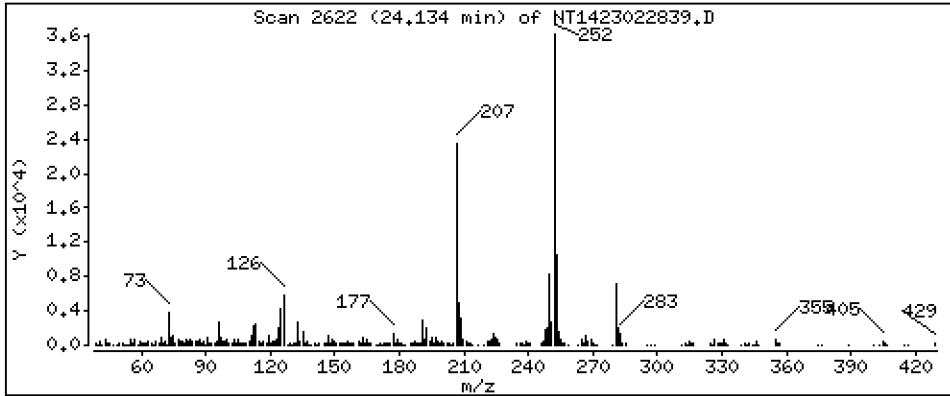
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,167 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

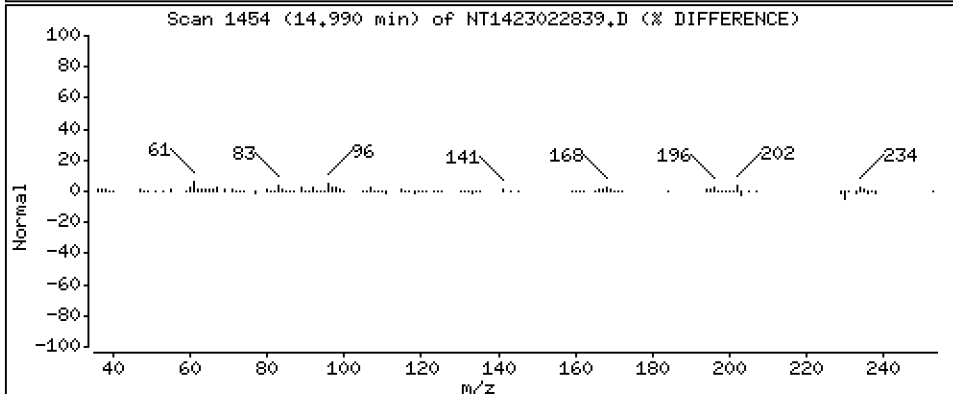
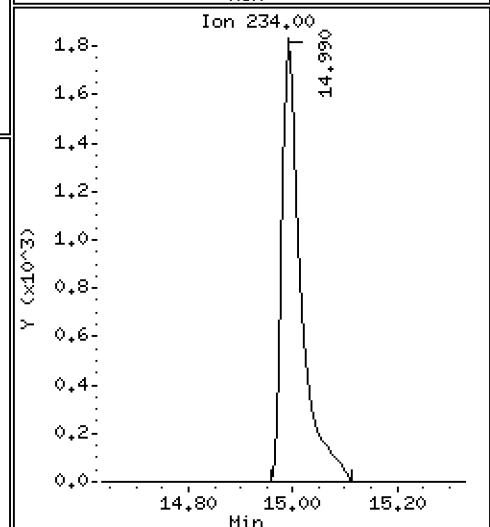
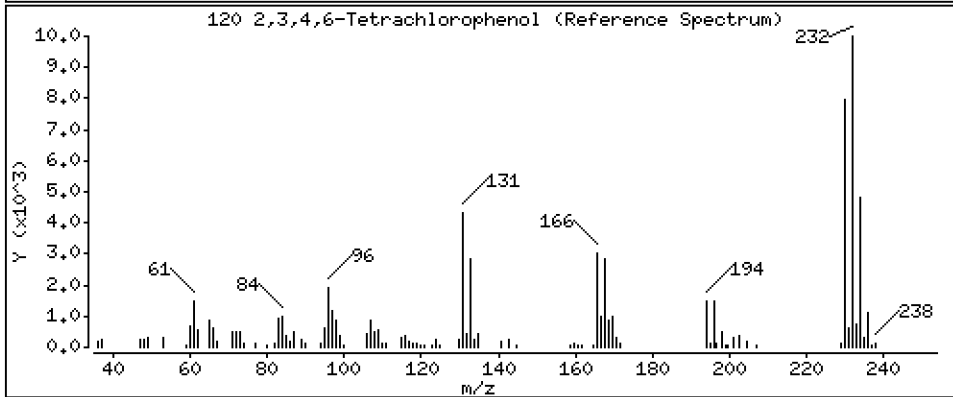
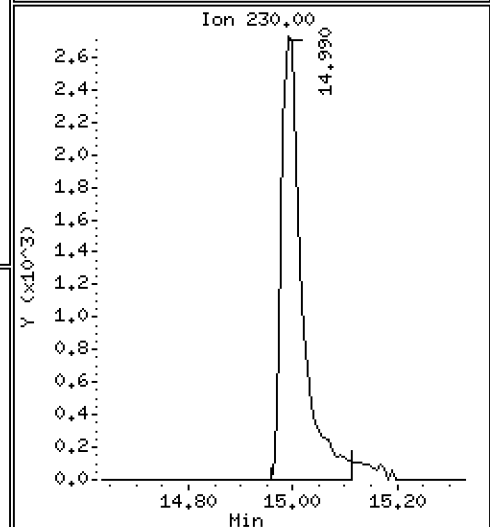
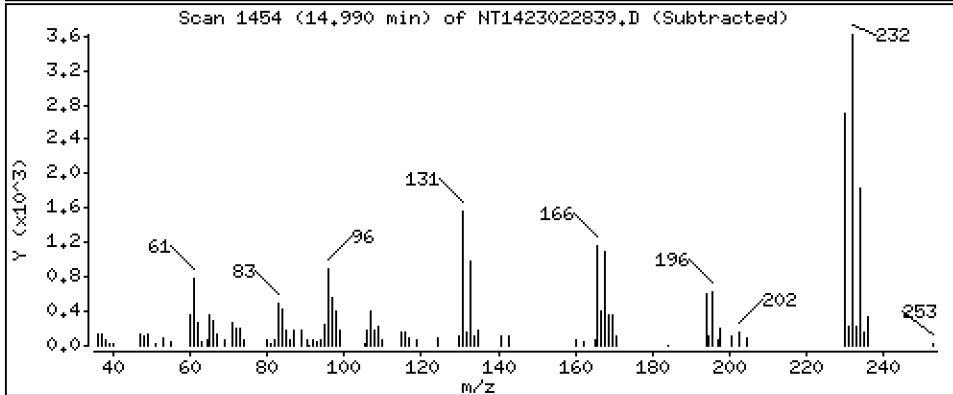
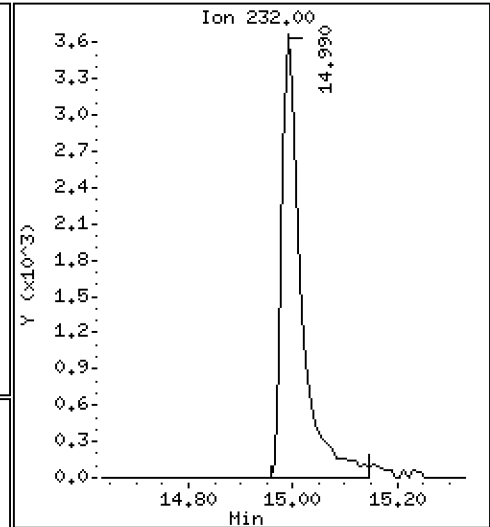
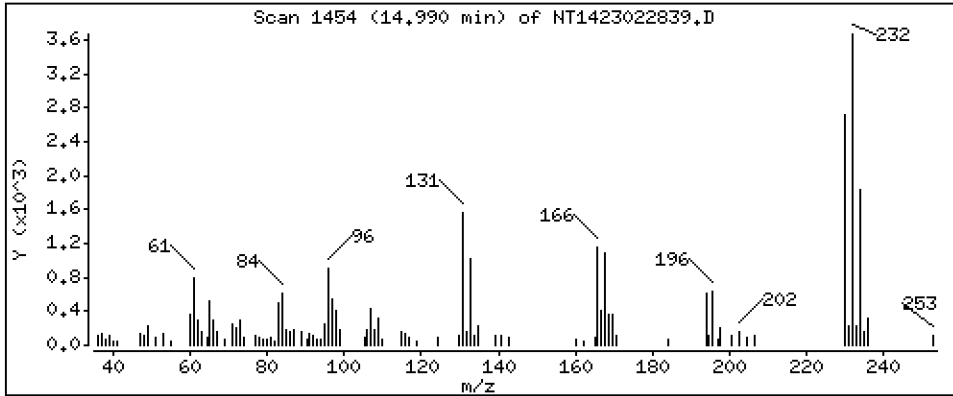
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,3850 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022839.D  
 Lab Smp Id: SLB0374-LCV4  
 Inj Date : 02-MAR-2023 00:28 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-LCV4  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 14-Mar-2023 08:52 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |            |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|------------|
|                                 |       |     |        |        |         |          | ON-COLUMN      | FINAL      |
|                                 | MASS  |     |        |        |         |          | (ug/mL)        | (ug/mL)    |
| \$ 1 2-Fluorophenol             | 112   |     | 6.058  | 6.050  | (0.740) | 21041    | 0.68149        | 0.6815     |
| \$ 2 Phenol-d5                  | 99    |     | 7.642  | 7.642  | (0.933) | 31560    | 0.71996        | 0.7200     |
| 3 Phenol                        | 94    |     | 7.665  | 7.665  | (0.936) | 25759    | 0.49250        | 0.4925     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.858  | 7.850  | (0.959) | 28250    | 0.75791        | 0.7579     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.781  | 7.781  | (0.950) | 18758    | 0.50903        | 0.5090     |
| 6 2-Chlorophenol                | 128   |     | 7.882  | 7.881  | (0.962) | 18201    | 0.47244        | 0.4724     |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.129  | 8.129  | (0.992) | 22055    | 0.51947        | 0.5195     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.191  | 8.199  | (1.000) | 113866   | 4.00000        |            |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.222  | 8.230  | (1.004) | 21018    | 0.50089        | 0.5009     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.548  | 8.548  | (1.044) | 13993    | 0.49866        | 0.4987     |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.572  | 8.571  | (1.046) | 21326    | 0.53002        | 0.5300     |
| 11 Benzyl alcohol               | 108   |     | 8.579  | 8.509  | (1.047) | 7595     | 0.33294        | 0.3329 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.789  | 8.789  | (1.073) | 5668     | 0.52235        | 0.5223     |
| 13 2-Methylphenol               | 108   |     | 8.750  | 8.750  | (1.068) | 19550    | 0.59167        | 0.5917     |
| 17 Hexachloroethane             | 117   |     | 9.146  | 9.154  | (1.117) | 6238     | 0.39586        | 0.3959     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.045  | 9.053  | (1.104) | 14070    | 0.55927        | 0.5593     |
| 15 4-Methylphenol               | 108   |     | 9.030  | 9.022  | (1.102) | 15567    | 0.40474        | 0.4047     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.293  | 9.285  | (0.873) | 21653    | 0.55112        | 0.5511     |
| 19 Nitrobenzene                 | 77    |     | 9.325  | 9.324  | (0.876) | 20215    | 0.53543        | 0.5354     |
| 20 Isophorone                   | 82    |     | 9.767  | 9.774  | (0.917) | 26127    | 0.44314        | 0.4431     |
| 21 2-Nitrophenol                | 139   |     | 9.953  | 9.945  | (0.935) | 7521     | 0.38482        | 0.3848     |
| 22 2,4-Dimethylphenol           | 107   |     | 10.046 | 10.046 | (0.943) | 35270    | 1.02472        | 1.025      |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.224 | 10.224 | (0.960) | 20112    | 0.52986        | 0.5299     |
| 24 Benzoic acid                 | 105   |     | 10.657 | 10.364 | (1.001) | 12402    | 0.90925        | 0.9092 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | 10.418 | 10.410 | (0.978) | 30431    | 0.87404        | 0.8740     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.572 | 10.572 | (0.993) | 19323    | 0.49675        | 0.4967     |
| * 27 Naphthalene-d8             | 136   |     | 10.650 | 10.649 | (1.000) | 401641   | 4.00000        |            |
| 28 Naphthalene                  | 128   |     | 10.688 | 10.688 | (1.004) | 56325    | 0.52575        | 0.5257     |
| 29 4-Chloroaniline              | 127   |     | 10.858 | 10.850 | (1.020) | 41091    | 0.89674        | 0.8967     |
| 30 Hexachlorobutadiene          | 225   |     | 11.067 | 11.066 | (1.039) | 10951    | 0.46136        | 0.4614     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.856 | 11.848 | (1.113) | 30858    | 0.99602        | 0.9960     |
| 32 2-Methylnaphthalene          | 142   |     | 12.080 | 12.080 | (1.134) | 40795    | 0.51420        | 0.5142     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.545 | 12.545 | (0.881) | 278      | 0.01142        | 0.01142    |

| Compounds                         | QUANT SIG |        |        |         |          | CONCENTRATIONS       |                  |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 12.723 | 12.723 | (0.894) | 20172    | 0.88977              | 0.8898           |
| 35 2,4,5-Trichlorophenol          | 196       | 12.808 | 12.800 | (0.900) | 20179    | 0.82322              | 0.8232           |
| § 36 2-Fluorobiphenyl             | 172       | 12.878 | 12.877 | (0.905) | 46913    | 0.51935              | 0.5193           |
| 37 2-Chloronaphthalene            | 162       | 13.063 | 13.063 | (0.918) | 37076    | 0.51201              | 0.5120           |
| 38 2-Nitroaniline                 | 65        | 13.357 | 13.349 | (0.939) | 20216    | 1.07044              | 1.070            |
| 39 Dimethylphthalate              | 163       | 13.799 | 13.798 | (0.970) | 40379    | 0.55314              | 0.5531           |
| 40 Acenaphthylene                 | 152       | 13.922 | 13.922 | (0.978) | 59655    | 0.56144              | 0.5614           |
| 41 2,6-Dinitrotoluene             | 165       | 13.922 | 13.930 | (0.978) | 17169    | 1.00365              | 1.004            |
| * 42 Acenaphthene-d10             | 164       | 14.232 | 14.239 | (1.000) | 232085   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138       | 14.216 | 14.208 | (0.999) | 13375    | 0.76285              | 0.7629           |
| 44 Acenaphthene                   | 153       | 14.301 | 14.301 | (1.005) | 35358    | 0.51975              | 0.5197           |
| 45 2,4-Dinitrophenol              | 184       | 14.487 | 14.417 | (1.018) | 3589     | 0.33180              | 0.3318 (M)       |
| 46 Dibenzofuran                   | 168       | 14.626 | 14.634 | (1.028) | 54403    | 0.50259              | 0.5026           |
| 47 4-Nitrophenol                  | 109       | 14.665 | 14.587 | (1.030) | 6712     | 0.77392              | 0.7739 (M)       |
| 48 2,4-Dinitrotoluene             | 165       | 14.719 | 14.726 | (1.034) | 21618    | 0.87783              | 0.8778           |
| 50 Diethylphthalate               | 149       | 15.245 | 15.252 | (1.071) | 37592    | 0.55068              | 0.5507           |
| 49 Fluorene                       | 166       | 15.330 | 15.337 | (1.077) | 47493    | 0.52074              | 0.5207           |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.345 | 15.345 | (1.078) | 23996    | 0.49449              | 0.4945           |
| 52 4-Nitroaniline                 | 138       | 15.484 | 15.469 | (1.088) | 12439    | 0.71571              | 0.7157           |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.561 | 15.553 | (0.903) | 10658    | 0.76010              | 0.7601           |
| 54 N-Nitrosodiphenylamine         | 169       | 15.600 | 15.607 | (0.905) | 29910    | 0.56432              | 0.5643           |
| § 55 2,4,6-Tribromophenol         | 330       | 15.870 | 15.870 | (1.115) | 6770     | 0.54242              | 0.5424           |
| 56 4-Bromophenyl-phenylether      | 248       | 16.340 | 16.340 | (0.948) | 11816    | 0.50709              | 0.5071           |
| 57 Hexachlorobenzene              | 284       | 16.626 | 16.634 | (0.965) | 13457    | 0.52527              | 0.5253           |
| 58 Pentachlorophenol              | 266       | 17.029 | 17.005 | (0.988) | 6063     | 0.50236              | 0.5024 (M)       |
| * 59 Phenanthrene-d10             | 188       | 17.238 | 17.245 | (1.000) | 421769   | 4.00000              |                  |
| 60 Phenanthrene                   | 178       | 17.284 | 17.291 | (1.003) | 57808    | 0.51522              | 0.5152           |
| 61 Anthracene                     | 178       | 17.385 | 17.384 | (1.009) | 56384    | 0.53157              | 0.5316           |
| 62 Carbazole                      | 167       | 17.740 | 17.732 | (1.029) | 45658    | 0.49113              | 0.4911           |
| 63 Di-n-butylphthalate            | 149       | 18.591 | 18.591 | (1.079) | 59448    | 0.49567              | 0.4957           |
| 64 Fluoranthene                   | 202       | 19.713 | 19.713 | (0.882) | 60055    | 0.46780              | 0.4678           |
| 65 Pyrene                         | 202       | 20.139 | 20.139 | (0.901) | 64188    | 0.47423              | 0.4742           |
| § 66 Terphenyl-d14                | 244       | 20.472 | 20.471 | (0.916) | 48524    | 0.46562              | 0.4656           |
| 67 Butylbenzylphthalate           | 149       | 21.439 | 21.439 | (0.959) | 24089    | 0.50341              | 0.5034           |
| 68 Benzo(a)anthracene             | 228       | 22.338 | 22.337 | (0.999) | 61963    | 0.54666              | 0.5467           |
| * 69 Chrysene-d12                 | 240       | 22.361 | 22.368 | (1.000) | 338375   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.322 | 22.330 | (0.998) | 61380    | 1.89623              | 1.896            |
| 71 Chrysene                       | 228       | 22.407 | 22.415 | (1.002) | 57233    | 0.52532              | 0.5253           |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.493 | 22.492 | (0.958) | 33483    | 0.45826              | 0.4583           |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.468 | 23.476 | (1.000) | 478625   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149       | 23.476 | 23.483 | (1.000) | 63483    | 0.50375              | 0.5038           |
| 74 Benzo(b)fluoranthene           | 252       | 24.103 | 24.103 | (0.975) | 59947    | 0.57480              | 0.5748           |
| 75 Benzo(k)fluoranthene           | 252       | 24.134 | 24.141 | (0.977) | 65965    | 0.58629              | 0.5863           |
| 76 Benzo(a)pyrene                 | 252       | 24.622 | 24.621 | (0.996) | 48646    | 0.54368              | 0.5437           |
| * 77 Perylene-d12                 | 264       | 24.715 | 24.714 | (1.000) | 315661   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.792 | 26.784 | (1.084) | 28384    | 0.25201              | 0.2520           |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.808 | 26.800 | (1.085) | 26906    | 0.28126              | 0.2813           |
| 80 Benzo(g,h,i)perylene           | 276       | 27.398 | 27.383 | (1.109) | 19508    | 0.19859              | 0.1986           |
| 90 N-Nitrosodimethylamine         | 74        | 3.988  | 3.988  | (0.487) | 16106    | 0.69000              | 0.6900           |
| 91 Aniline                        | 93        | 7.681  | 7.681  | (0.938) | 49138    | 0.91246              | 0.9125           |
| 93 Benzidine                      | 184       | 20.015 | 19.992 | (0.895) | 33592    | 0.61245              | 0.6124           |
| 103 Pyridine                      | 79        | 4.019  | 3.988  | (0.491) | 27003    | 0.39141              | 0.3914           |
| 105 1-methylnaphthalene           | 142       | 12.297 | 12.297 | (1.155) | 37145    | 0.50856              | 0.5086           |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.662 | 15.669 | (1.100) | 46156    | 0.58895              | 0.5890           |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 24.134 | 24.141 | (0.977) | 119075   | 1.16718              | 1.167            |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 14.989 | 14.981 | (1.053) | 10064    | 0.38501              | 0.3850           |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023  
 Lab File ID: NT1423022839.D Calibration Time: 22:40  
 Lab Smp Id: SLB0374-LCV4  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 115350   | 57675      | 230700  | 113866 | -1.29  |
| 27 Naphthalene-d8     | 415895   | 207948     | 831790  | 401641 | -3.43  |
| 42 Acenaphthene-d10   | 246020   | 123010     | 492040  | 232085 | -5.66  |
| 59 Phenanthrene-d10   | 448598   | 224299     | 897196  | 421769 | -5.98  |
| 69 Chrysene-d12       | 373978   | 186989     | 747956  | 338375 | -9.52  |
| 134 Di-n-octylphthala | 541572   | 270786     | 1083144 | 478625 | -11.62 |
| 77 Perylene-d12       | 357819   | 178910     | 715638  | 315661 | -11.78 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.20     | 7.70     | 8.70  | 8.19   | -0.09 |
| 27 Naphthalene-d8     | 10.65    | 10.15    | 11.15 | 10.65  | 0.00  |
| 42 Acenaphthene-d10   | 14.24    | 13.74    | 14.74 | 14.23  | -0.05 |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.24  | -0.04 |
| 69 Chrysene-d12       | 22.37    | 21.87    | 22.87 | 22.36  | -0.03 |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.47  | -0.03 |
| 77 Perylene-d12       | 24.71    | 24.21    | 25.21 | 24.72  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022839.D

Lab ID: SLB0374-LCV4  
nt14.i, ABN.m, 02-MAR-2023 00:28

RT CO-ELUTION COMPOUNDS

---

13.923 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND          |
|-------|---------|--------|-------------------|
| 1.047 | 1.038   | 0.0095 | Benzyl alcohol    |
| 1.001 | 0.973   | 0.0276 | Benzoic acid      |
| 1.018 | 1.012   | 0.0054 | 2,4-Dinitrophenol |
| 1.030 | 1.024   | 0.0060 | 4-Nitrophenol     |

RRT check based on Ccal File: NT1423022836.D

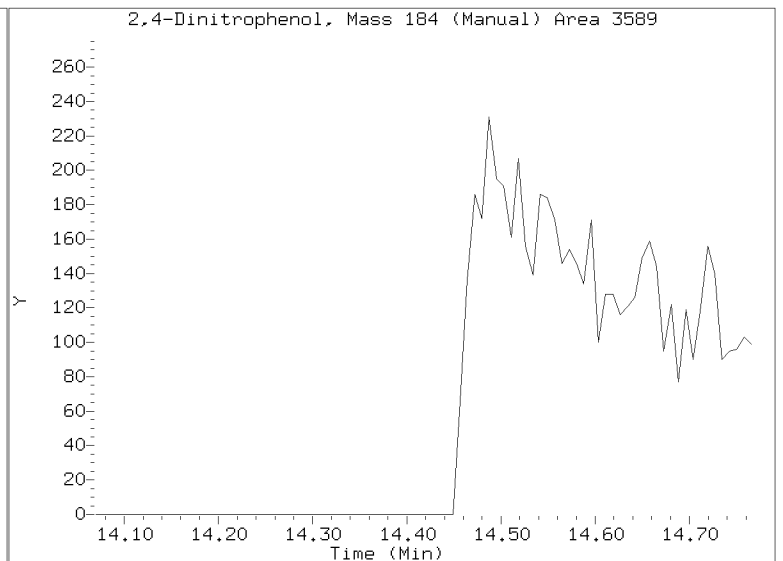
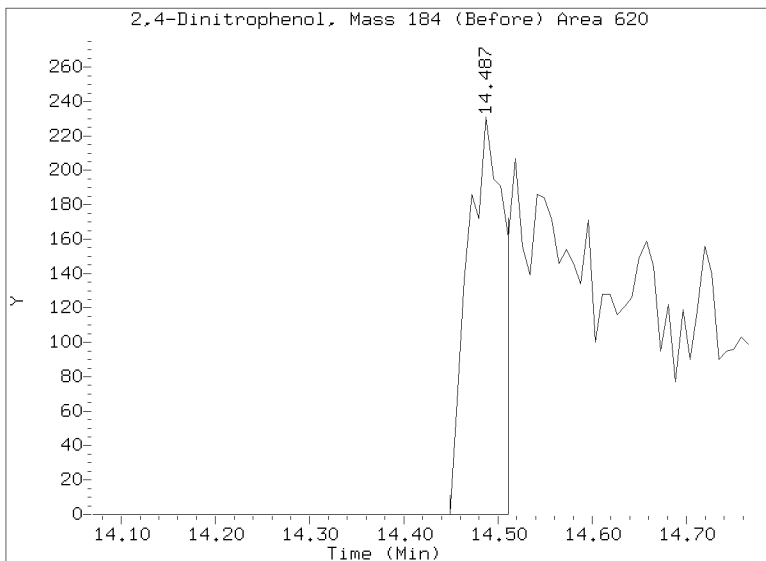
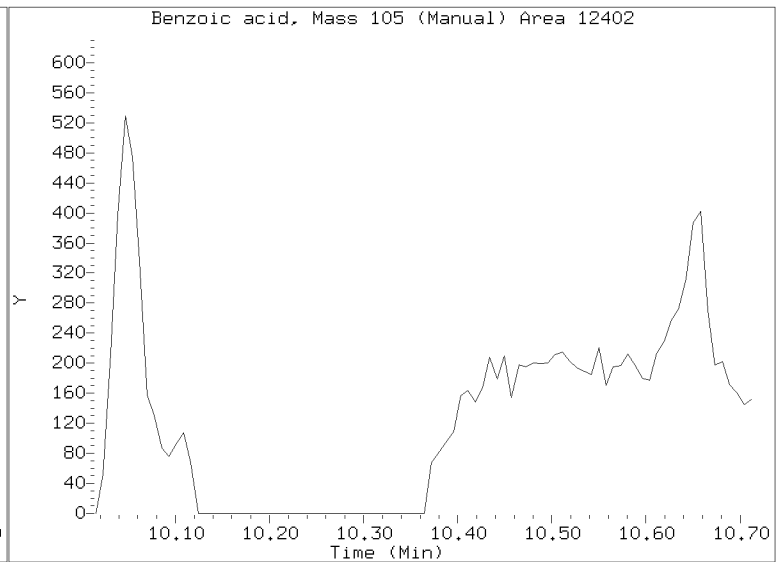
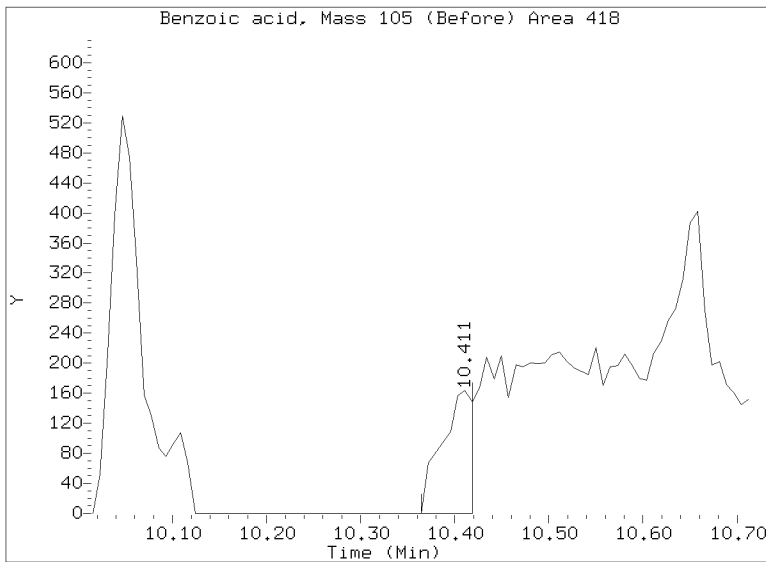
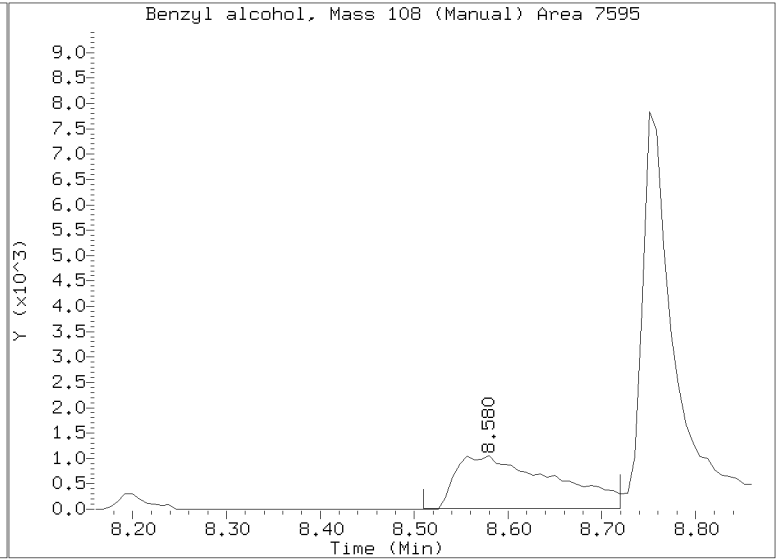
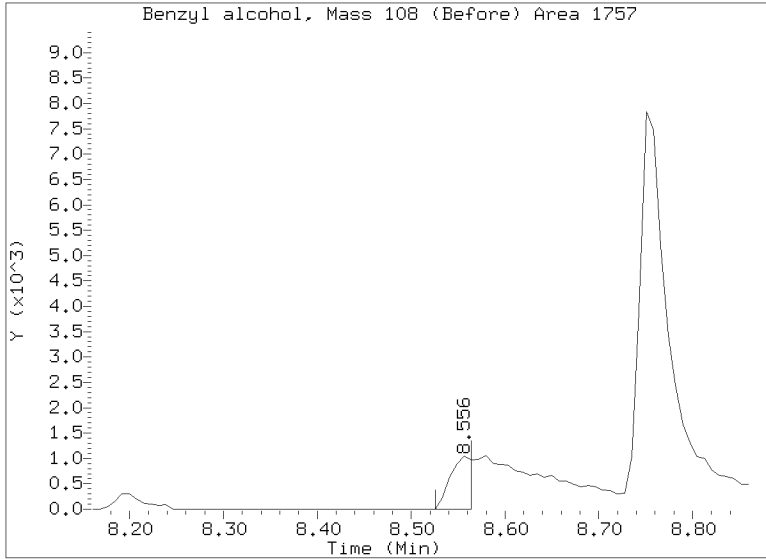
On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*



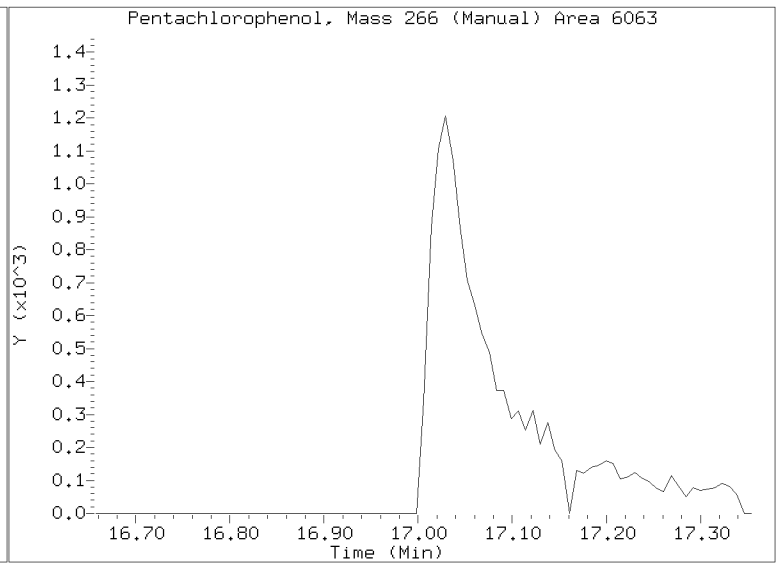
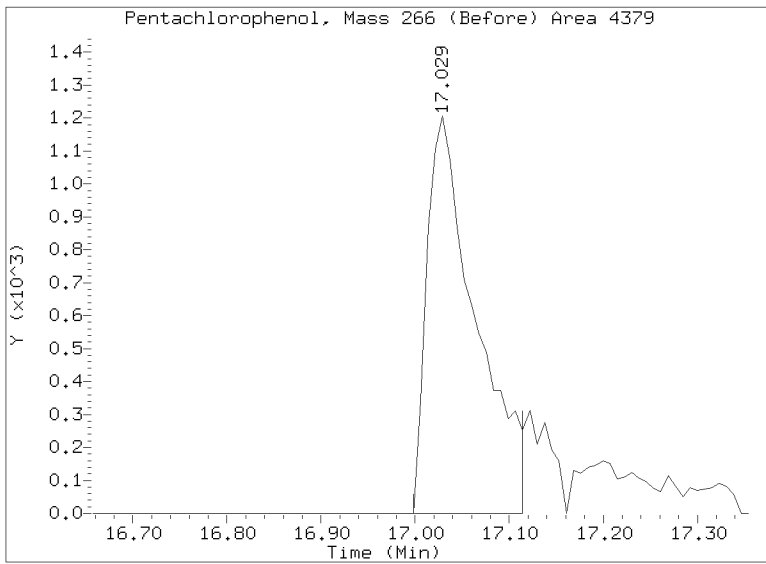
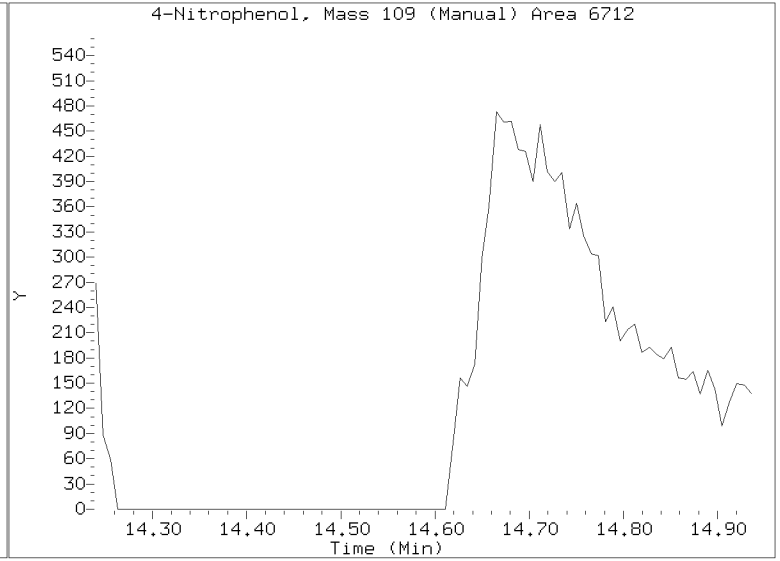
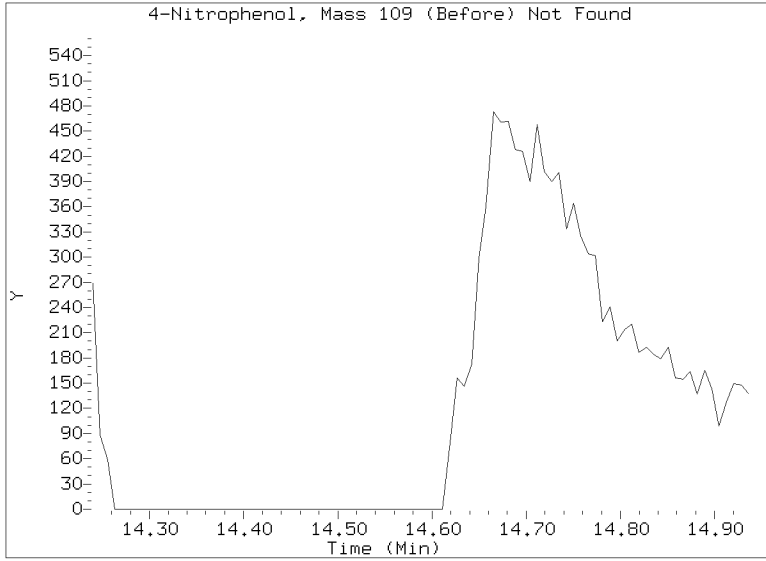
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022839.D  
Injection Date: 02-MAR-2023 00:28  
Lab ID:SLB0374-LCV4 Client ID:  
Report Date: 03/14/2023 08:53



# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022839.D  
Injection Date: 02-MAR-2023 00:28  
Lab ID:SLB0374-LCV4 Client ID:  
Report Date: 03/14/2023 08:53





**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-LCV5

**Sequence:** SLB0374

**Standard ID:** K011105

| ANALYTE                      | EXPECTED<br>(ug/mL) | FOUND<br>(ug/mL) | % DRIFT | QC LIMIT |
|------------------------------|---------------------|------------------|---------|----------|
| Phenol                       | 0.20000             | 0.2              | -16.8   | 50.00    |
| bis(2-chloroethyl) ether     | 0.20000             | 0.2              | 18.3    | 50.00    |
| 2-Chlorophenol               | 0.20000             | 0.2              | 4.1     | 50.00    |
| 1,3-Dichlorobenzene          | 0.20000             | 0.2              | 7.1     | 50.00    |
| 1,4-Dichlorobenzene          | 0.20000             | 0.2              | 4.0     | 50.00    |
| 1,2-Dichlorobenzene          | 0.20000             | 0.2              | 5.4     | 50.00    |
| Benzyl Alcohol               | 0.20000             | 0.08             | -59.0 * | 50.00    |
| 2,2'-Oxybis(1-chloropropane) | 0.20000             | 0.2              | 1.2     | 50.00    |
| 2-Methylphenol               | 0.20000             | 0.2              | -13.1   | 50.00    |
| Hexachloroethane             | 0.20000             | 0.2              | -24.6   | 50.00    |
| N-Nitroso-di-n-Propylamine   | 0.20000             | 0.2              | 6.0     | 50.00    |
| 4-Methylphenol               | 0.20000             | 0.1              | -30.1   | 50.00    |
| Nitrobenzene                 | 0.20000             | 0.2              | 2.4     | 50.00    |
| Isophorone                   | 0.20000             | 0.2              | -18.0   | 50.00    |
| 2-Nitrophenol                | 0.20000             | 0.1              | -34.6   | 50.00    |
| 2,4-Dimethylphenol           | 0.40000             | 0.4              | 1.7     | 50.00    |
| Bis(2-Chloroethoxy)methane   | 0.20000             | 0.2              | -9.2    | 50.00    |
| 2,4-Dichlorophenol           | 0.40000             | 0.3              | -17.7   | 50.00    |
| 1,2,4-Trichlorobenzene       | 0.20000             | 0.2              | -2.2    | 50.00    |
| Naphthalene                  | 0.20000             | 0.2              | 9.1     | 50.00    |
| Benzoic acid                 | 0.80000             | 0.0              | *       | 50.00    |
| 4-Chloroaniline              | 0.40000             | 0.3              | -14.4   | 50.00    |
| Hexachlorobutadiene          | 0.20000             | 0.2              | -9.4    | 50.00    |
| 4-Chloro-3-Methylphenol      | 0.40000             | 0.3              | -14.2   | 50.00    |
| 2-Methylnaphthalene          | 0.20000             | 0.2              | -7.7    | 50.00    |
| Hexachlorocyclopentadiene    | 0.40000             | 0.0              | *       | 50.00    |
| 2,4,6-Trichlorophenol        | 0.40000             | 0.3              | -19.0   | 50.00    |
| 2,4,5-Trichlorophenol        | 0.40000             | 0.4              | 4.7     | 50.00    |
| 2-Chloronaphthalene          | 0.20000             | 0.2              | 4.2     | 50.00    |



**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-LCV5

**Sequence:** SLB0374

**Standard ID:** K011105

|                            |         |     |         |       |
|----------------------------|---------|-----|---------|-------|
| 2-Nitroaniline             | 0.40000 | 0.4 | -8.2    | 50.00 |
| Acenaphthylene             | 0.20000 | 0.2 | 9.2     | 50.00 |
| Dimethylphthalate          | 0.20000 | 0.2 | 4.8     | 50.00 |
| 2,6-Dinitrotoluene         | 0.40000 | 0.4 | -8.9    | 50.00 |
| Acenaphthene               | 0.20000 | 0.2 | 5.3     | 50.00 |
| 3-Nitroaniline             | 0.40000 | 0.3 | -22.9   | 50.00 |
| 2,4-Dinitrophenol          | 0.80000 | 0.0 | *       | 50.00 |
| Dibenzofuran               | 0.20000 | 0.2 | 0.07    | 50.00 |
| 4-Nitrophenol              | 0.40000 | 0.0 | *       | 50.00 |
| 2,4-Dinitrotoluene         | 0.40000 | 0.3 | -26.5   | 50.00 |
| Fluorene                   | 0.20000 | 0.2 | 6.0     | 50.00 |
| 4-Chlorophenylphenyl ether | 0.20000 | 0.2 | -2.0    | 50.00 |
| Diethyl phthalate          | 0.20000 | 0.2 | 8.4     | 50.00 |
| 4-Nitroaniline             | 0.40000 | 0.3 | -27.2   | 50.00 |
| 4,6-Dinitro-2-methylphenol | 0.80000 | 0.2 | -79.4 * | 50.00 |
| N-Nitrosodiphenylamine     | 0.20000 | 0.2 | 8.3     | 50.00 |
| 4-Bromophenyl phenyl ether | 0.20000 | 0.2 | -3.7    | 50.00 |
| Hexachlorobenzene          | 0.20000 | 0.2 | 0.7     | 50.00 |
| Pentachlorophenol          | 0.40000 | 0.1 | -63.7 * | 50.00 |
| Phenanthrene               | 0.20000 | 0.2 | 5.2     | 50.00 |
| Anthracene                 | 0.20000 | 0.2 | 2.4     | 50.00 |
| Carbazole                  | 0.20000 | 0.2 | -6.2    | 50.00 |
| Di-n-Butylphthalate        | 0.20000 | 0.2 | -3.3    | 50.00 |
| Fluoranthene               | 0.20000 | 0.2 | -11.8   | 50.00 |
| Pyrene                     | 0.20000 | 0.2 | -8.1    | 50.00 |
| Butylbenzylphthalate       | 0.20000 | 0.2 | -0.04   | 50.00 |
| Benzo(a)anthracene         | 0.20000 | 0.2 | 10.3    | 50.00 |
| 3,3'-Dichlorobenzidine     | 0.60000 | 0.7 | 19.5    | 50.00 |
| Chrysene                   | 0.20000 | 0.2 | 6.2     | 50.00 |
| bis(2-Ethylhexyl)phthalate | 0.20000 | 0.2 | -9.4    | 50.00 |
| Di-n-Octylphthalate        | 0.20000 | 0.2 | 3.0     | 50.00 |



**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-LCV5

**Sequence:** SLB0374

**Standard ID:** K011105

|                           |         |       |         |       |
|---------------------------|---------|-------|---------|-------|
| Benzofluoranthenes, Total | 0.40000 | 0.5   | 30.2    | 50.00 |
| Benzo(a)pyrene            | 0.20000 | 0.2   | 9.2     | 50.00 |
| Indeno(1,2,3-cd)pyrene    | 0.20000 | 0.09  | -54.9 * | 50.00 |
| Dibenzo(a,h)anthracene    | 0.20000 | 0.09  | -54.4 * | 50.00 |
| Benzo(g,h,i)perylene      | 0.20000 | 0.07  | -64.0 * | 50.00 |
| 1-Methylnaphthalene       | 0.20000 | 0.2   | -2.9    | 50.00 |
| 2-Fluorophenol            | 0.30000 | 0.216 | -28.0   | 50.00 |
| Phenol-d5                 | 0.30000 | 0.236 | -21.2   | 50.00 |
| 2-Chlorophenol-d4         | 0.30000 | 0.281 | -6.2    | 50.00 |
| 1,2-Dichlorobenzene-d4    | 0.20000 | 0.194 | -3.1    | 50.00 |
| Nitrobenzene-d5           | 0.20000 | 0.205 | 2.4     | 50.00 |
| 2-Fluorobiphenyl          | 0.20000 | 0.208 | 4.0     | 50.00 |
| 2,4,6-Tribromophenol      | 0.30000 | 0.225 | -25.1   | 50.00 |
| p-Terphenyl-d14           | 0.20000 | 0.180 | -10.2   | 50.00 |

\* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228 JB\NT1423022850.D

Date: 02-MAR-2023 07:04

Client ID:

Sample Info: SLB0374-LCWS

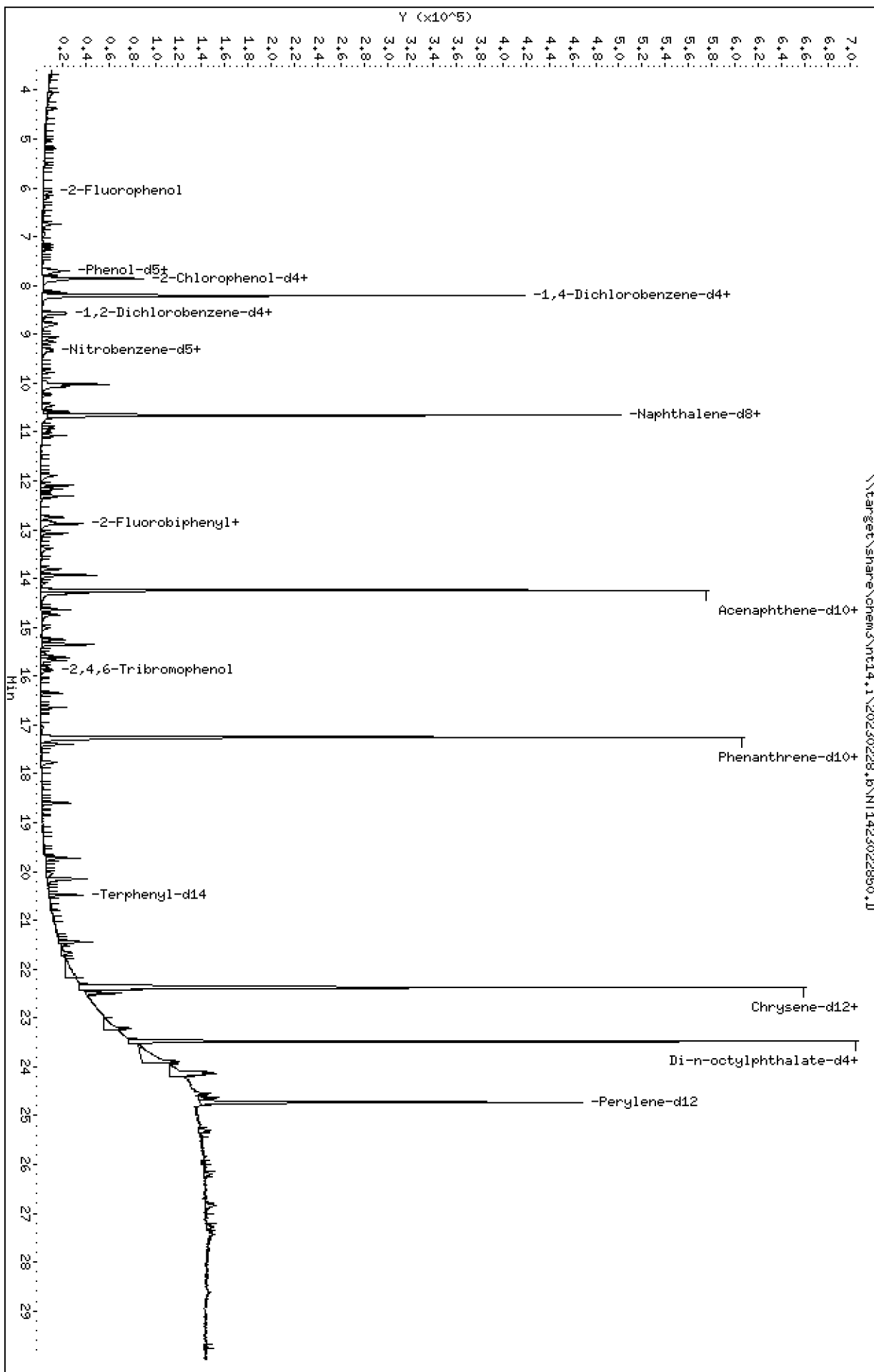
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

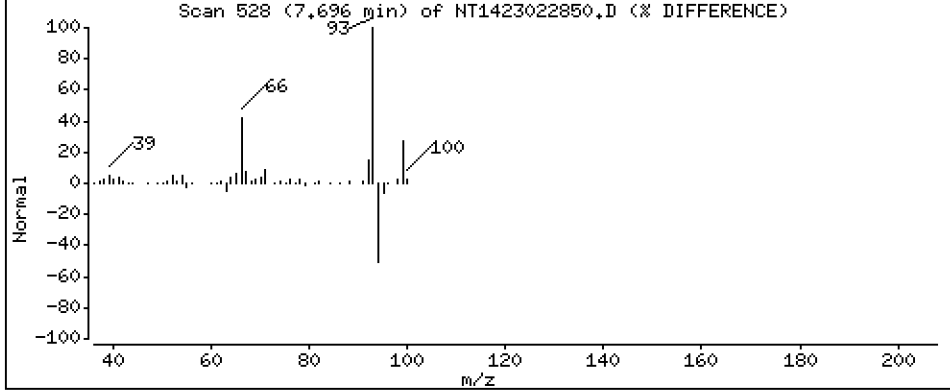
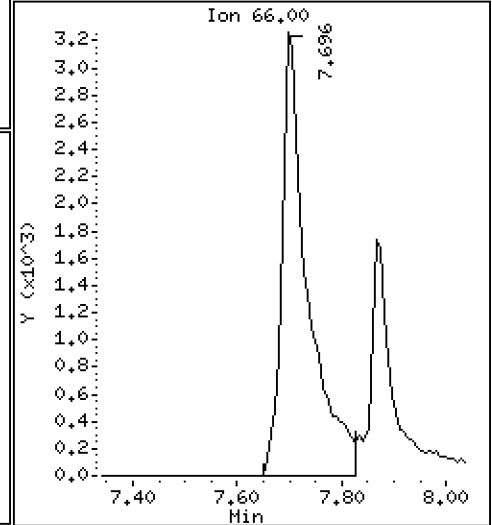
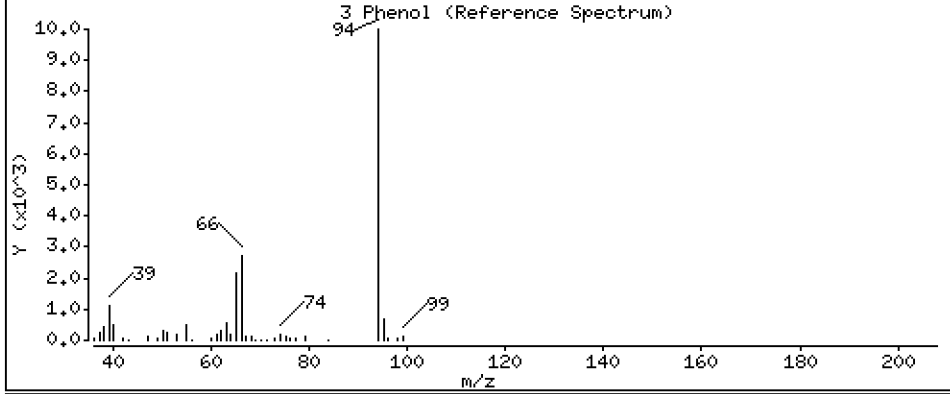
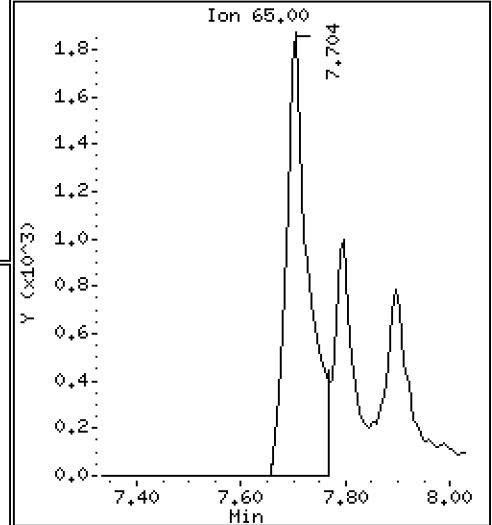
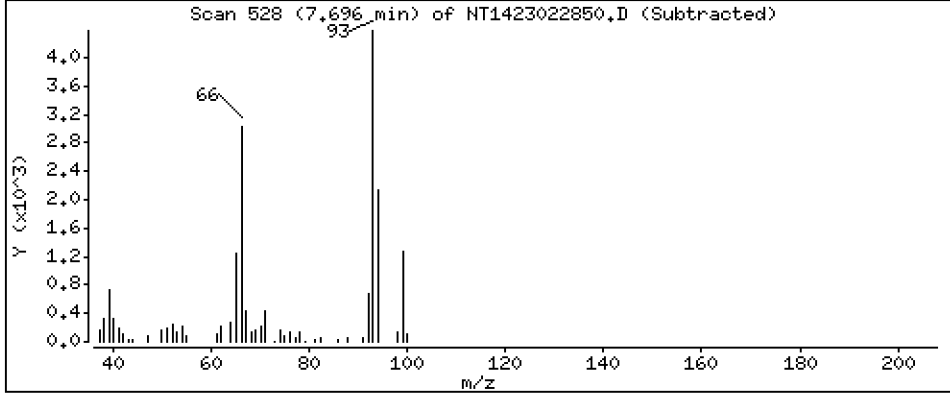
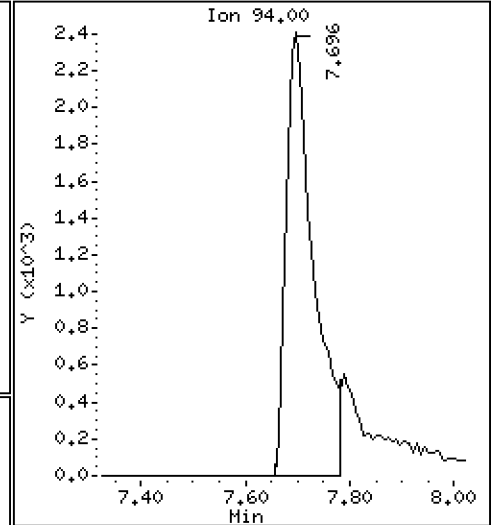
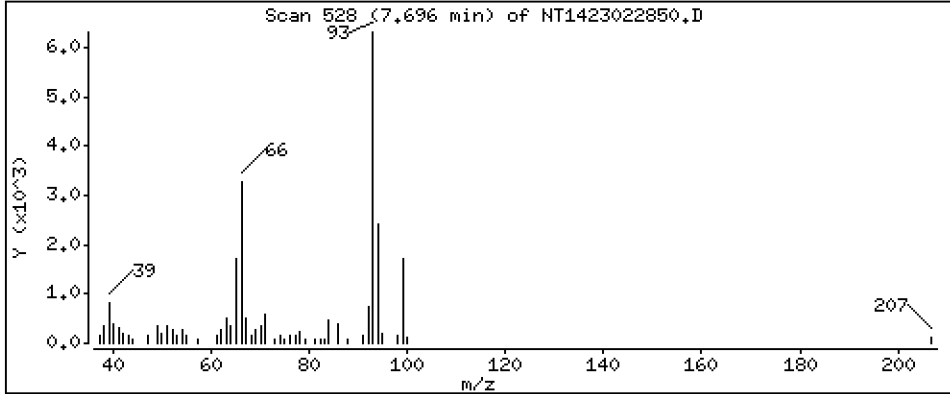
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,1665 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

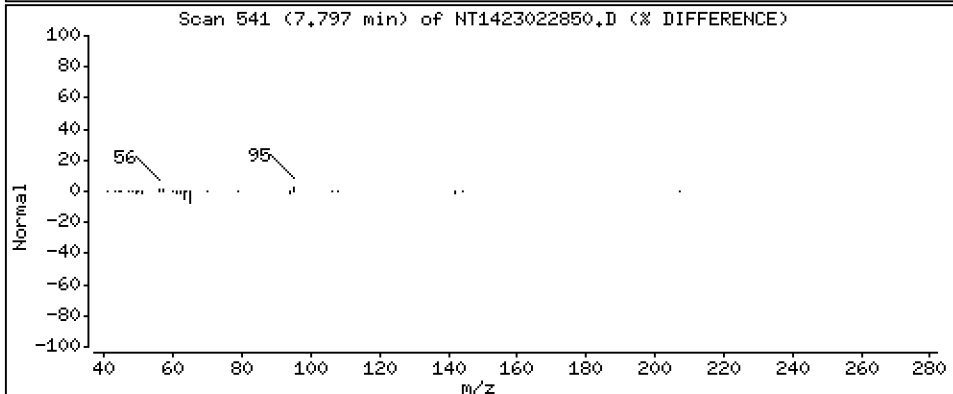
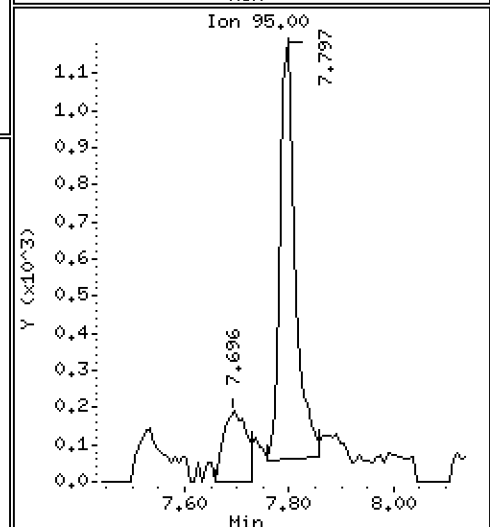
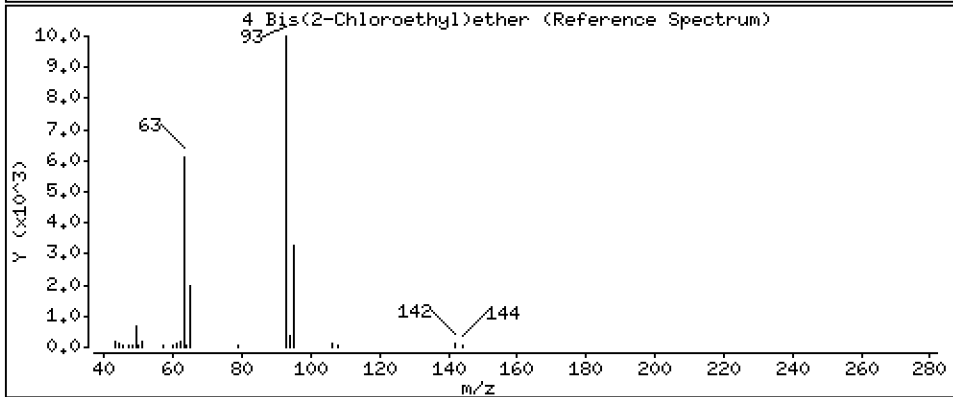
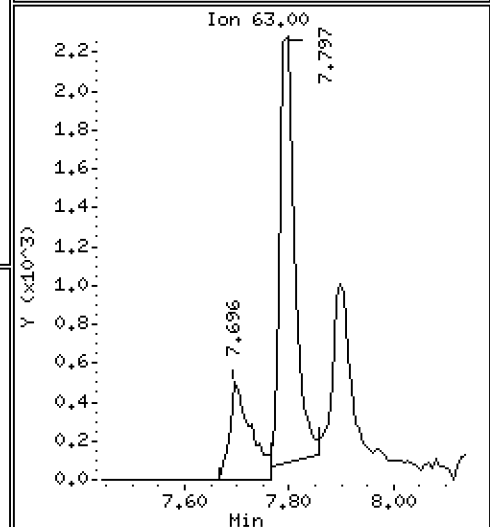
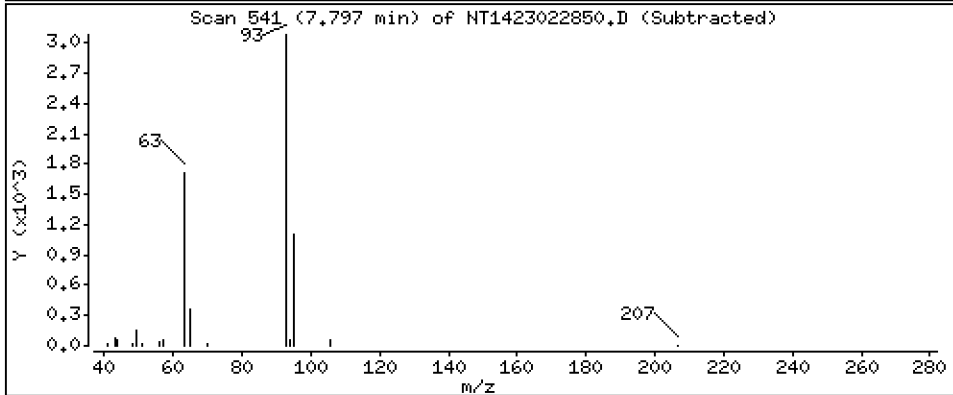
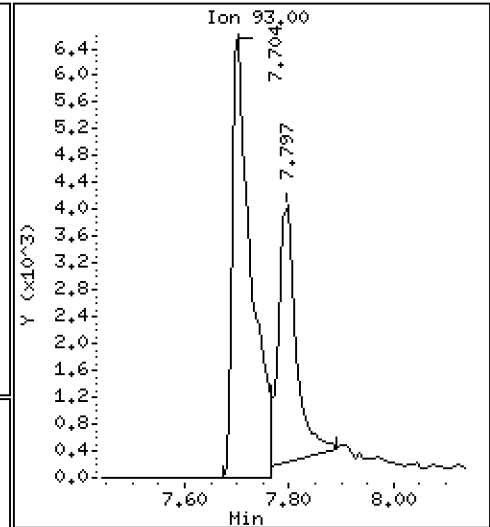
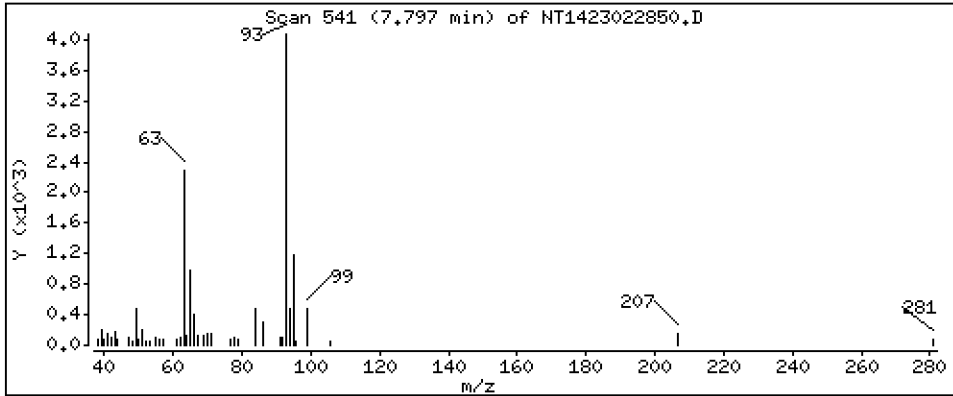
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,2366 ug/mL





Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

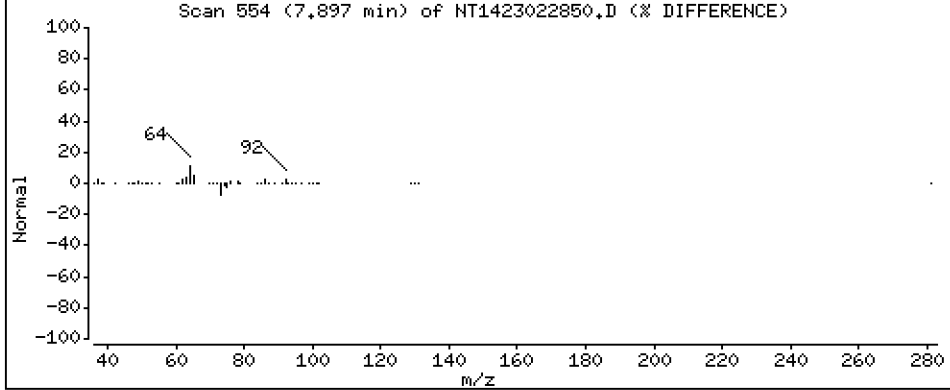
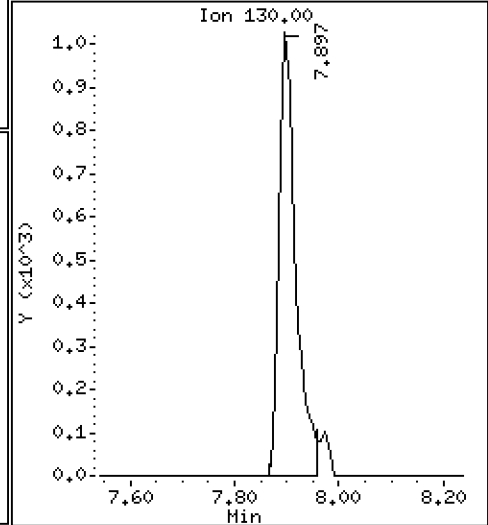
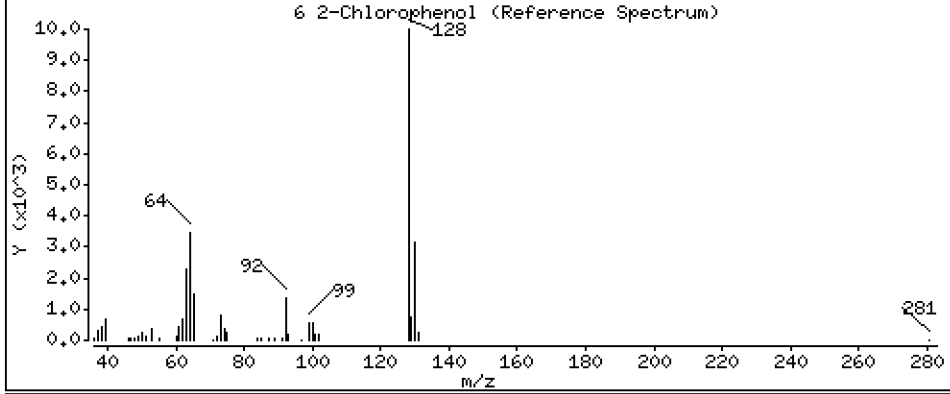
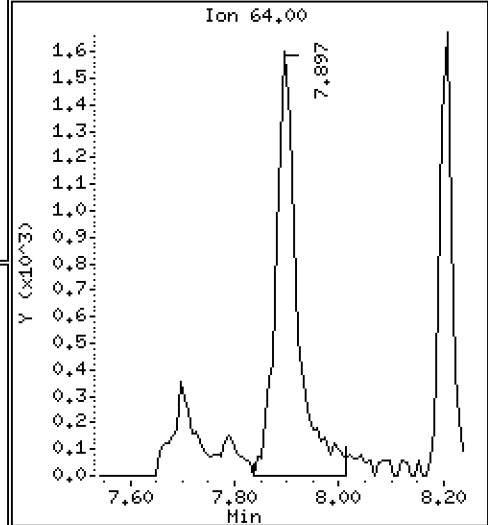
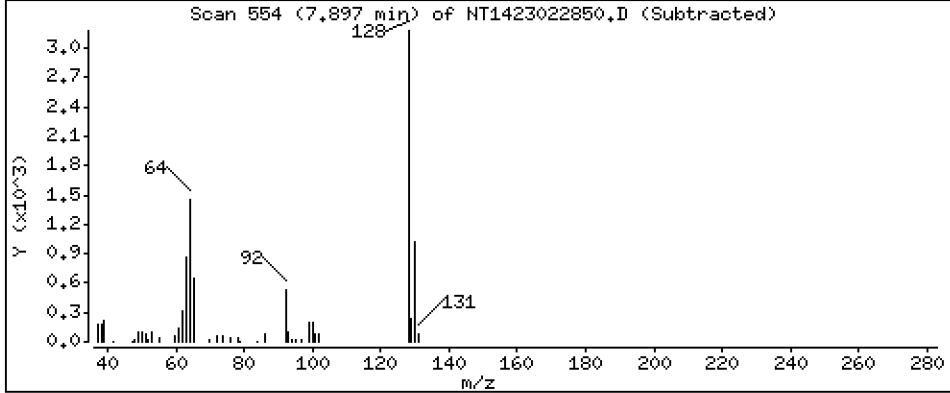
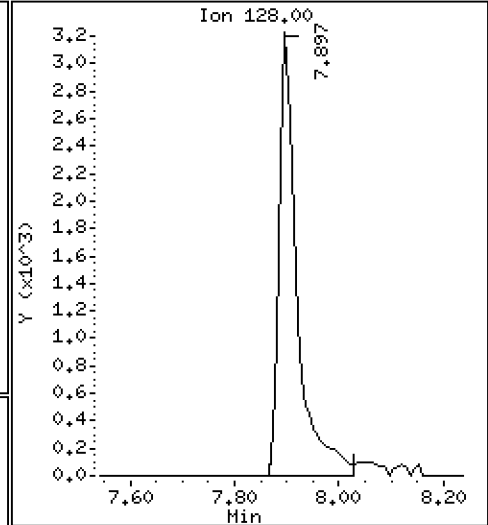
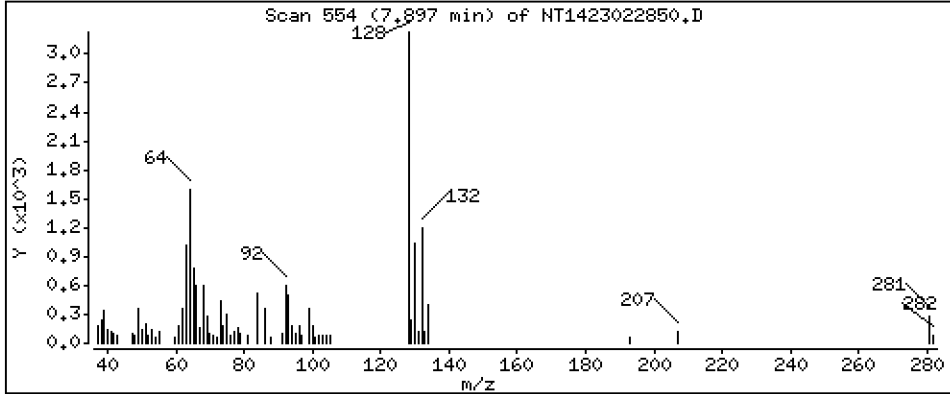
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,2081 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

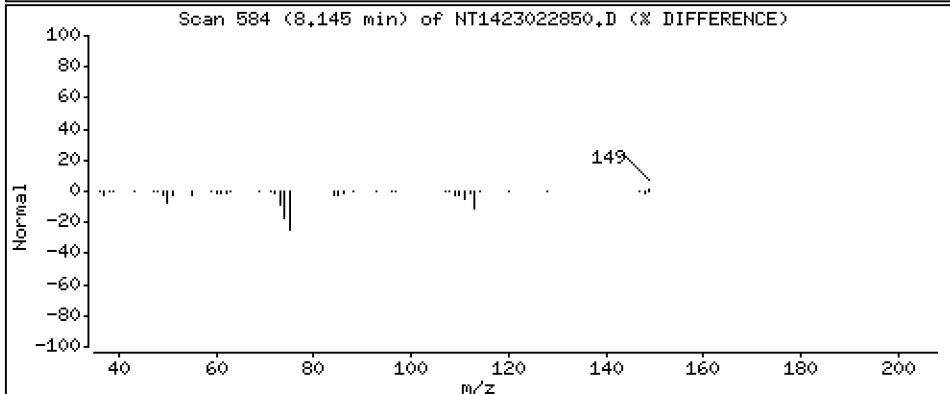
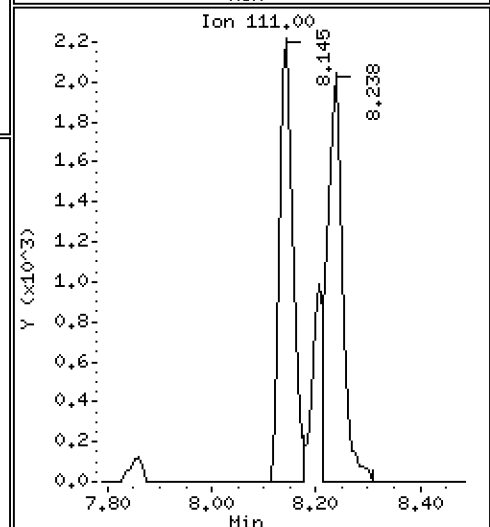
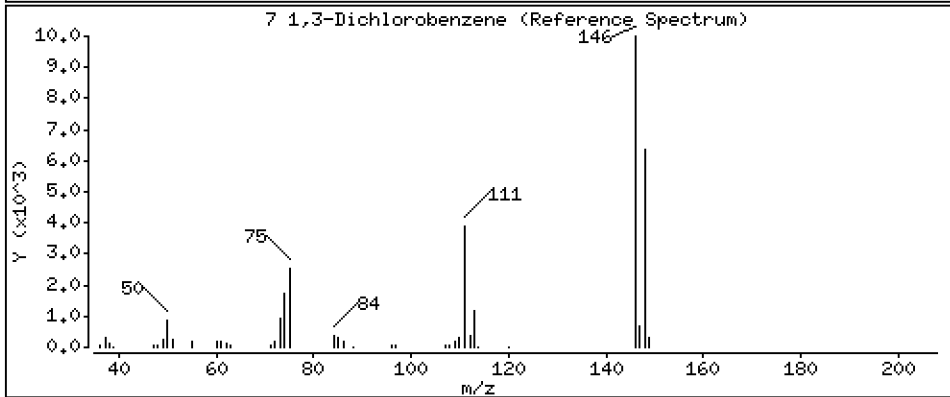
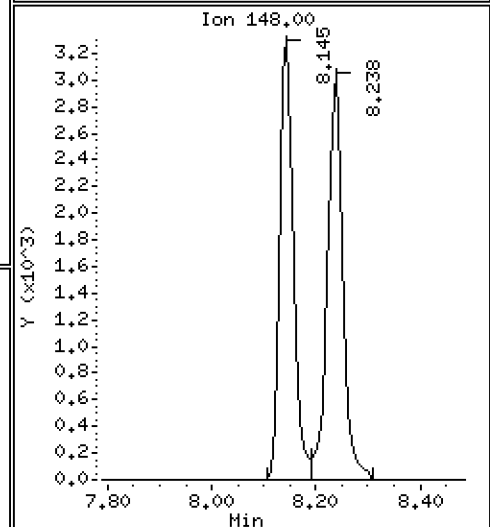
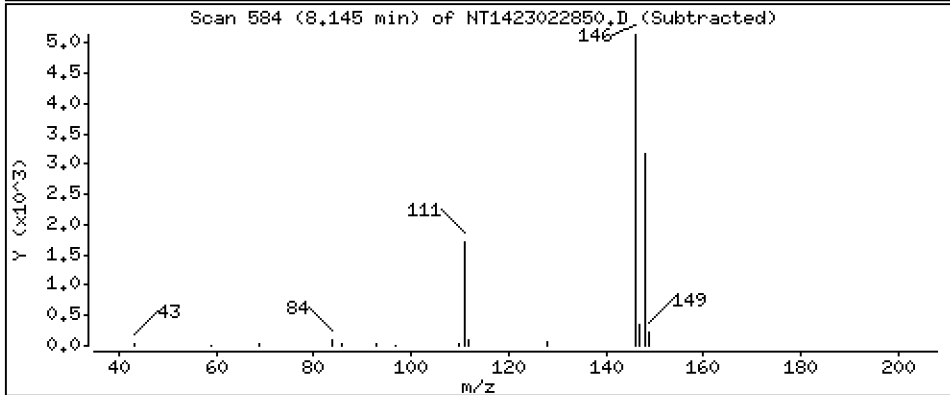
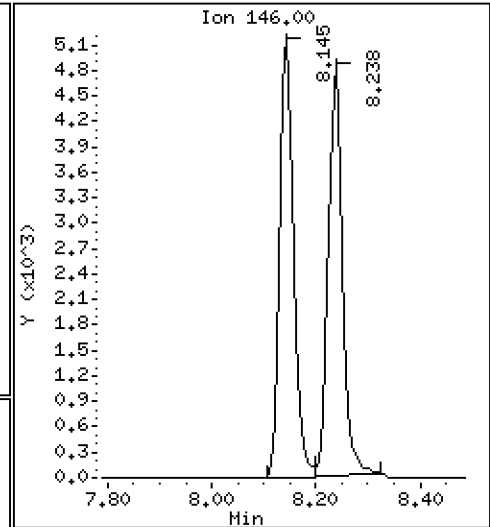
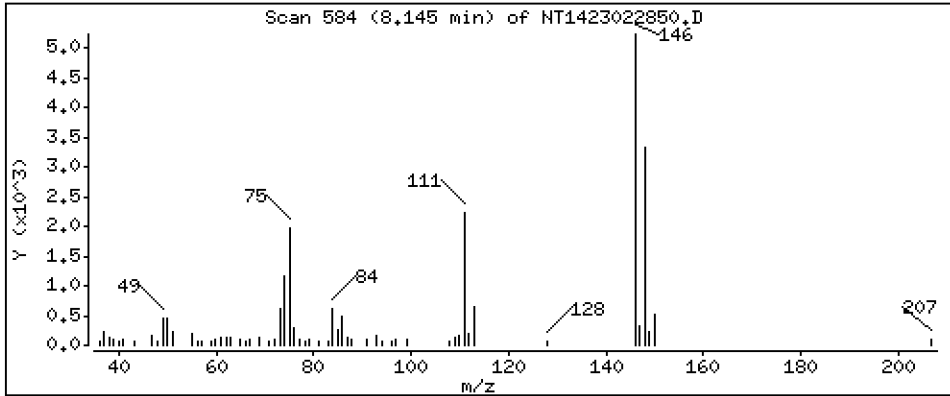
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.2141 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

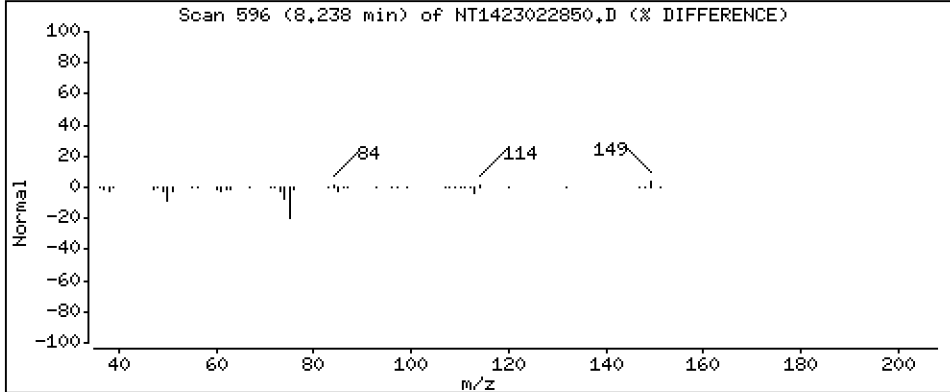
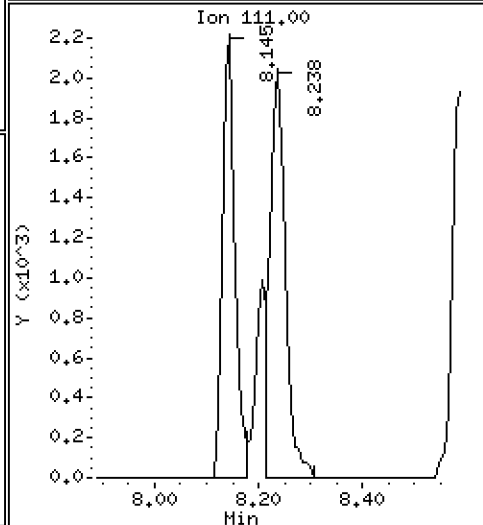
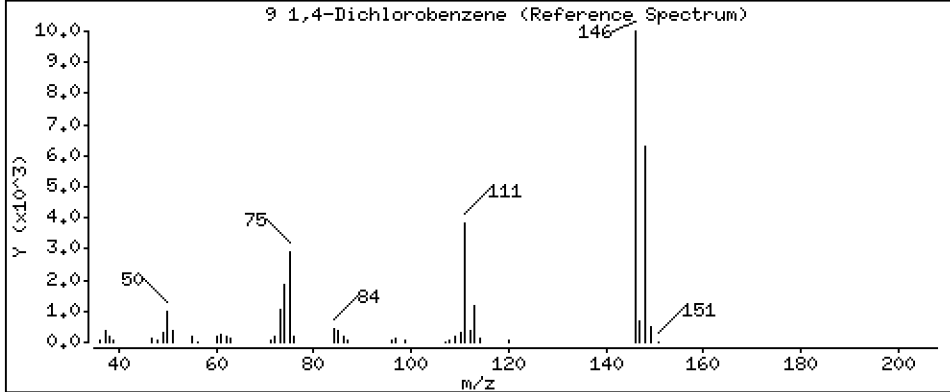
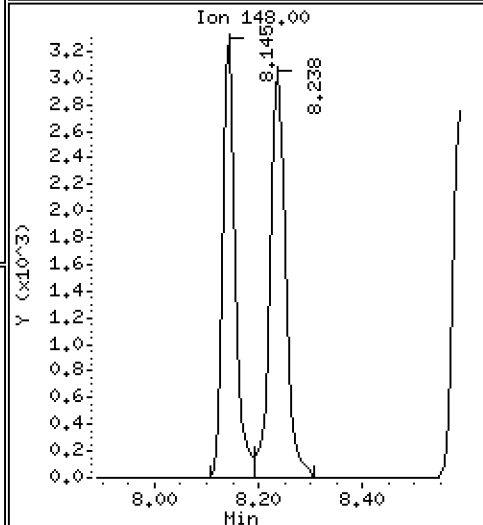
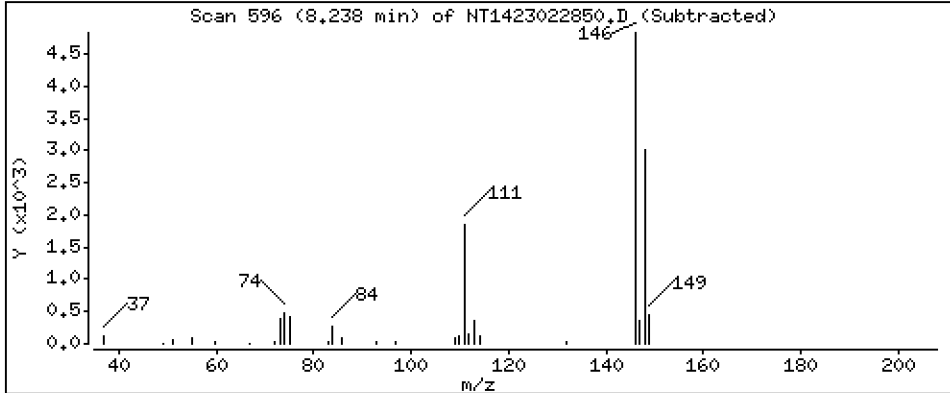
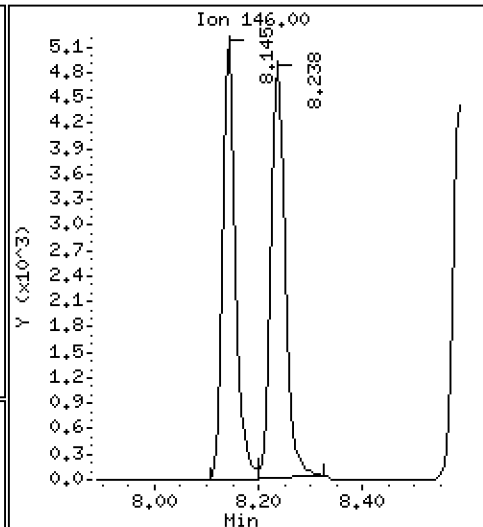
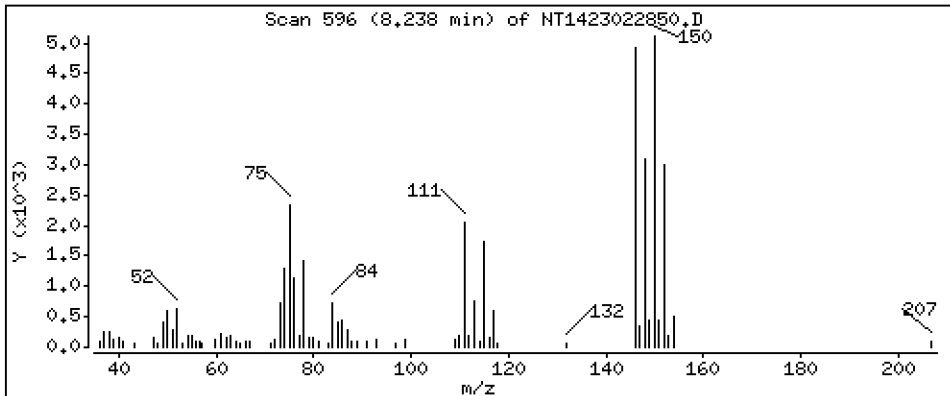
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 0.2080 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

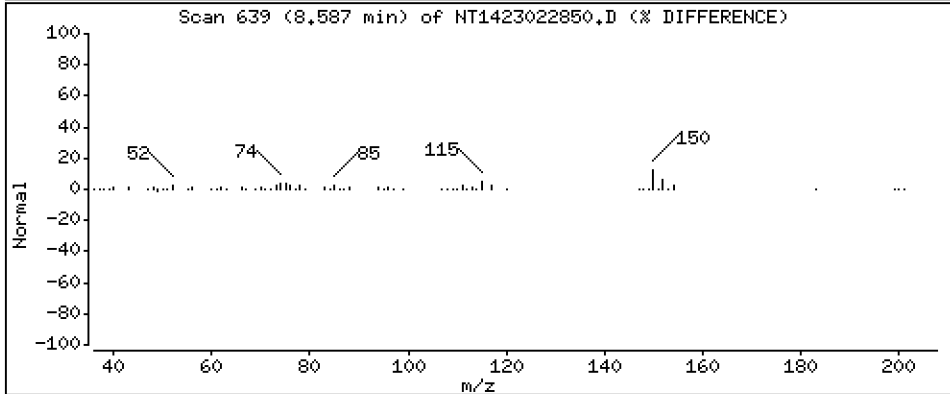
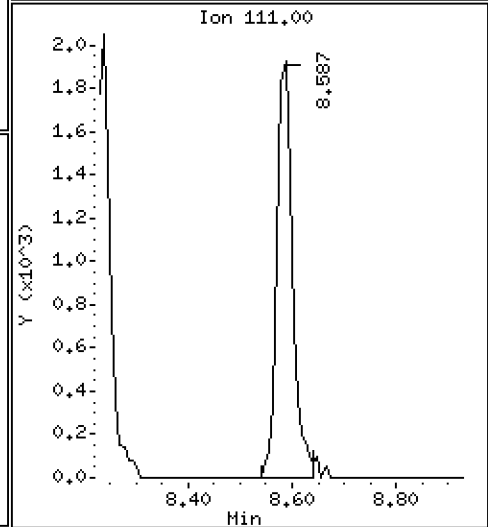
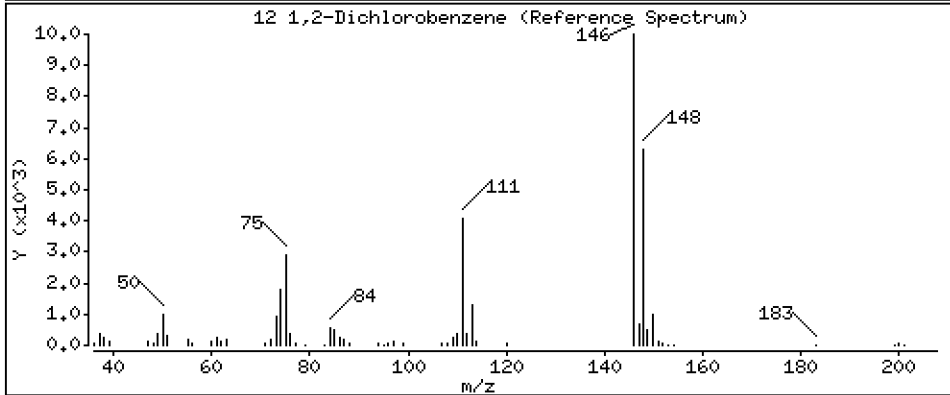
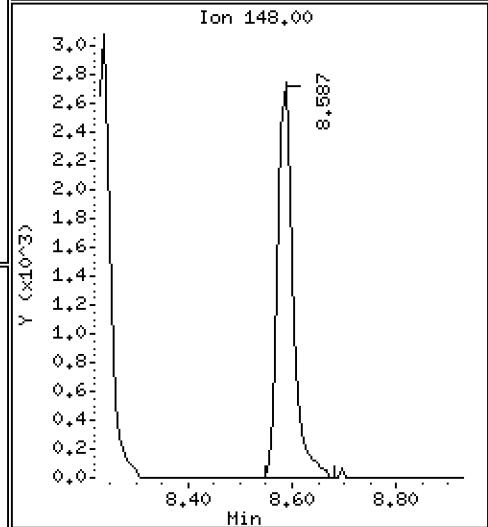
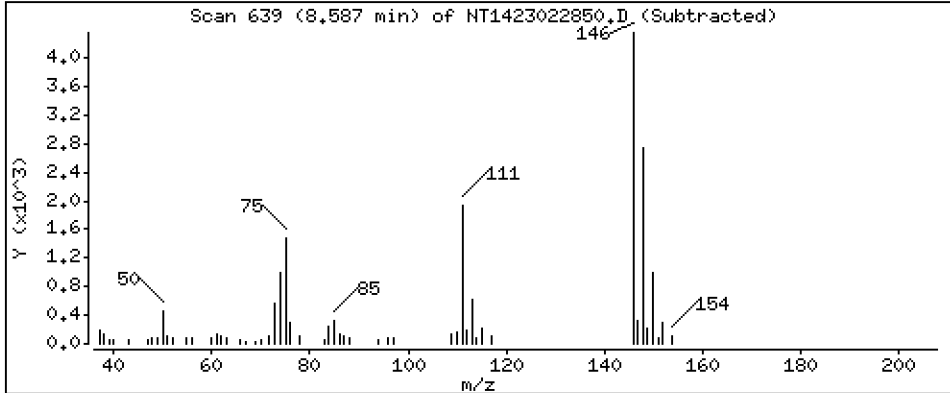
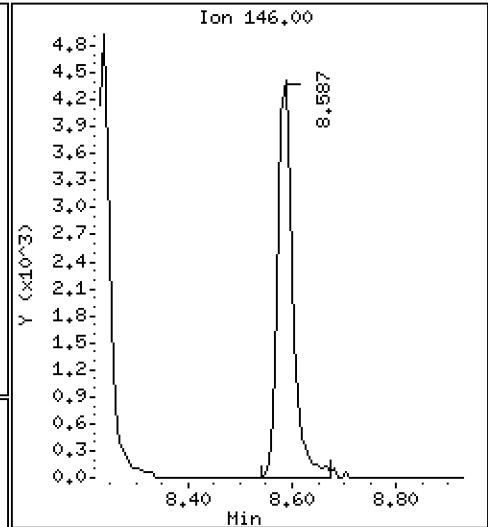
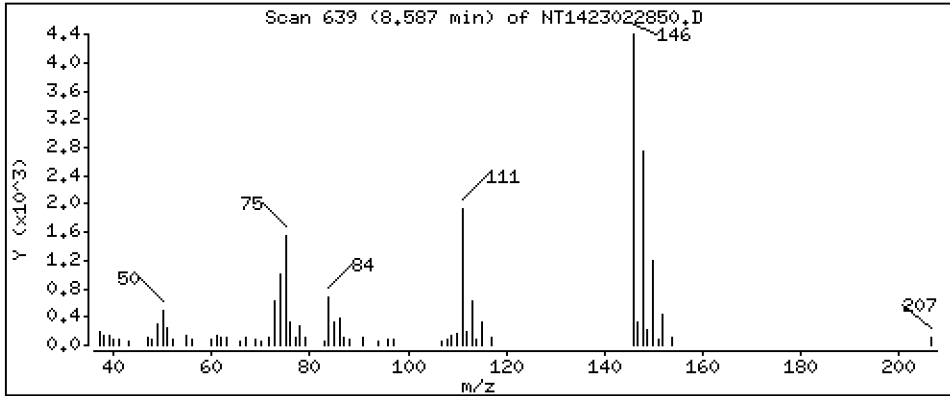
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2109 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

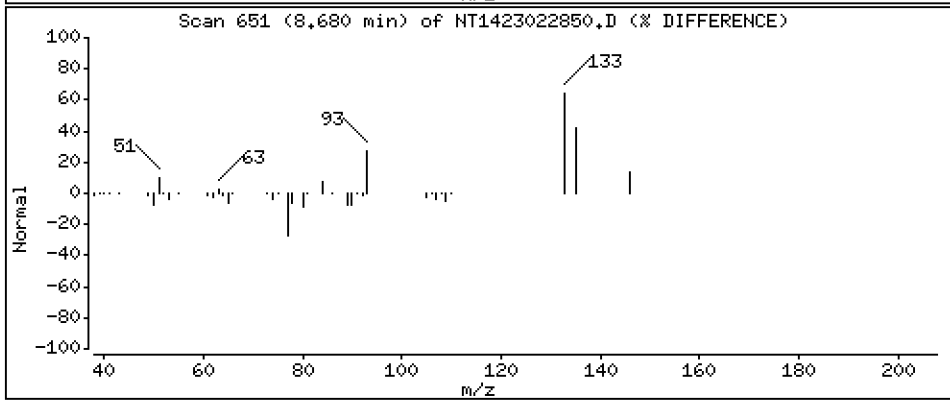
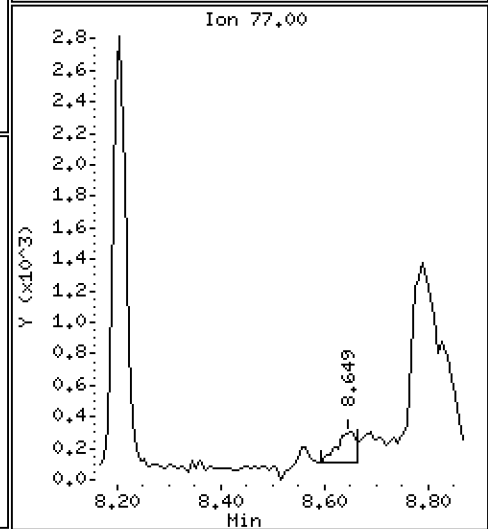
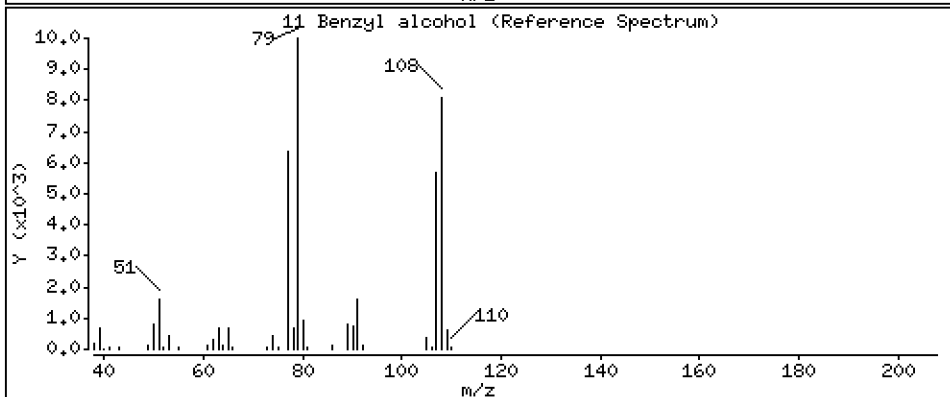
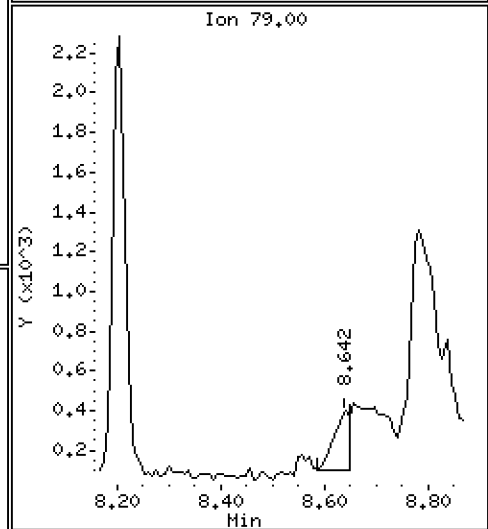
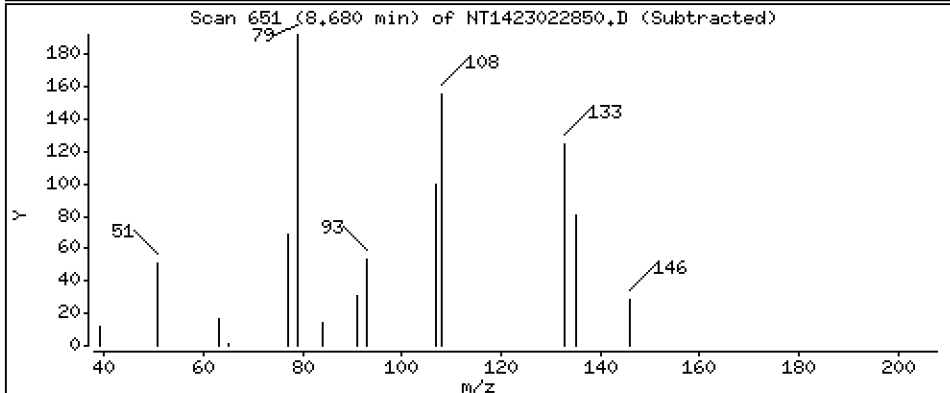
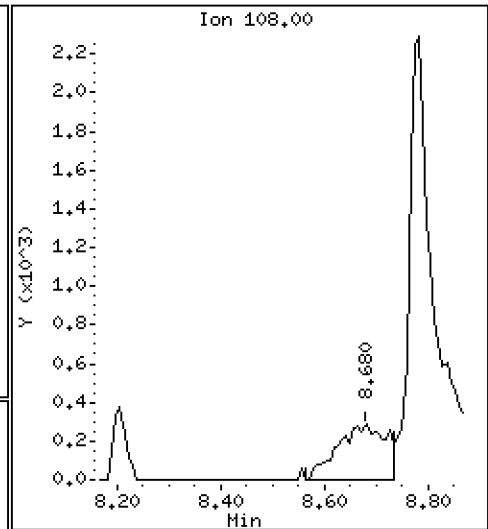
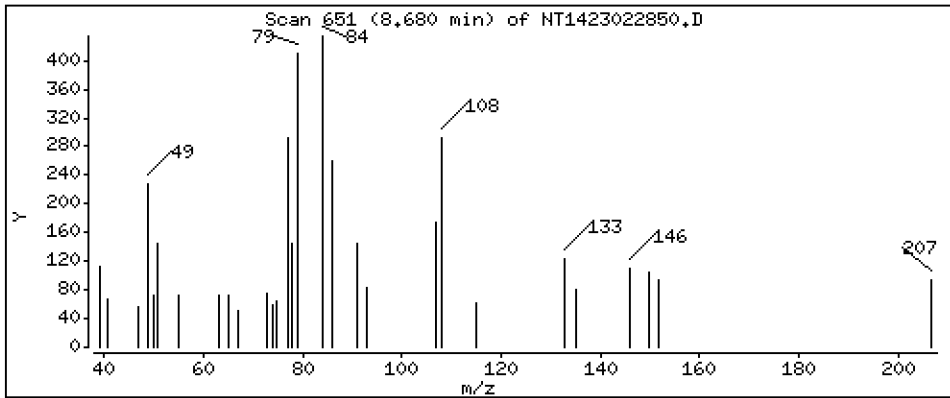
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 0,08203 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

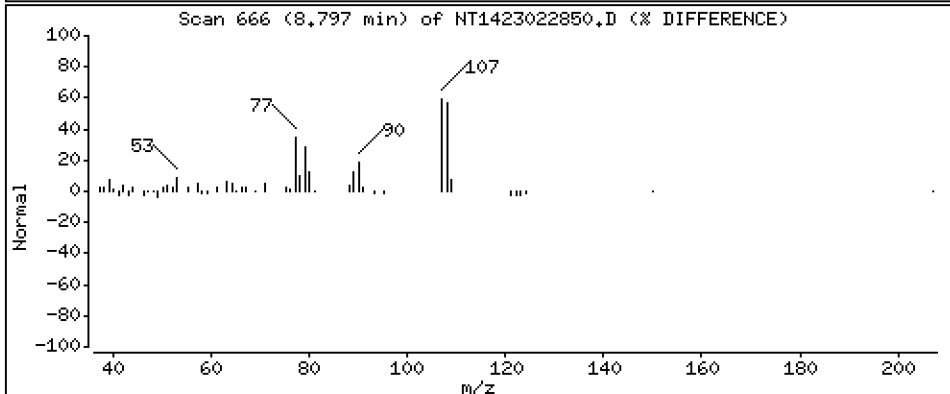
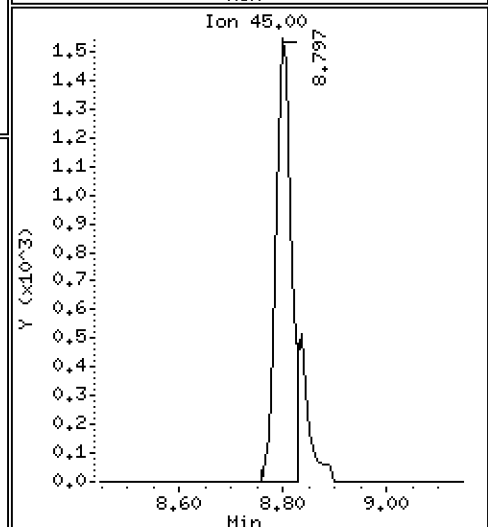
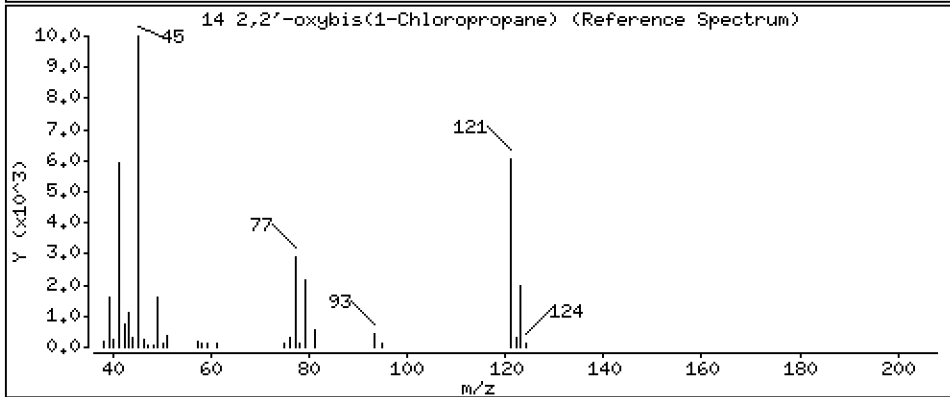
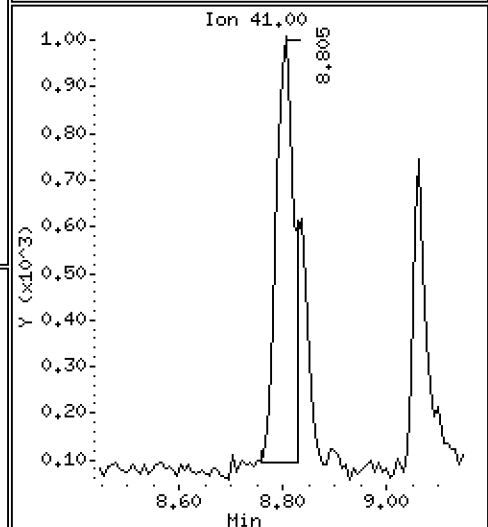
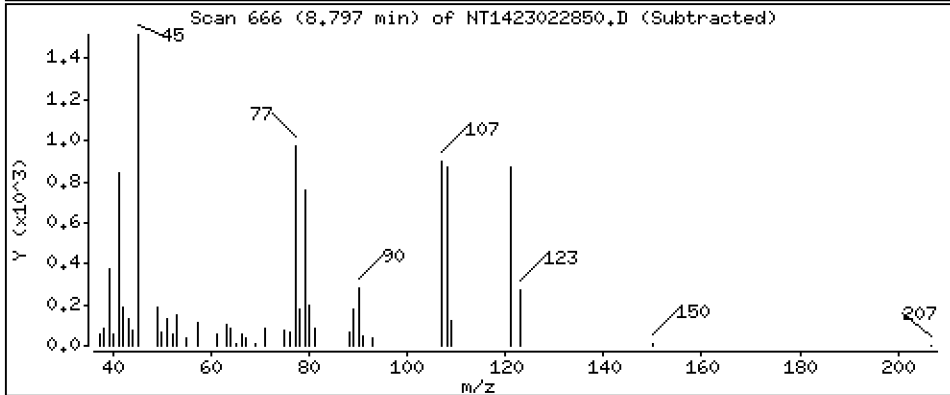
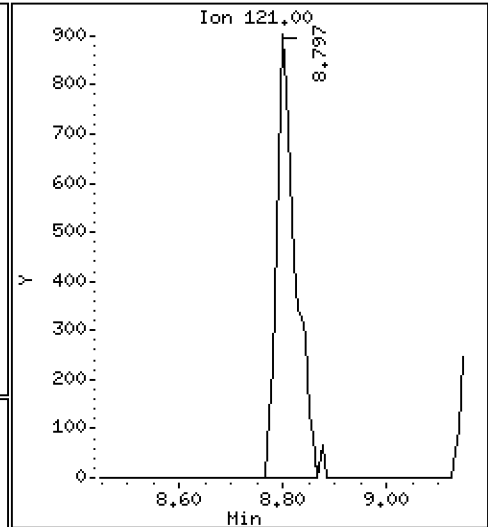
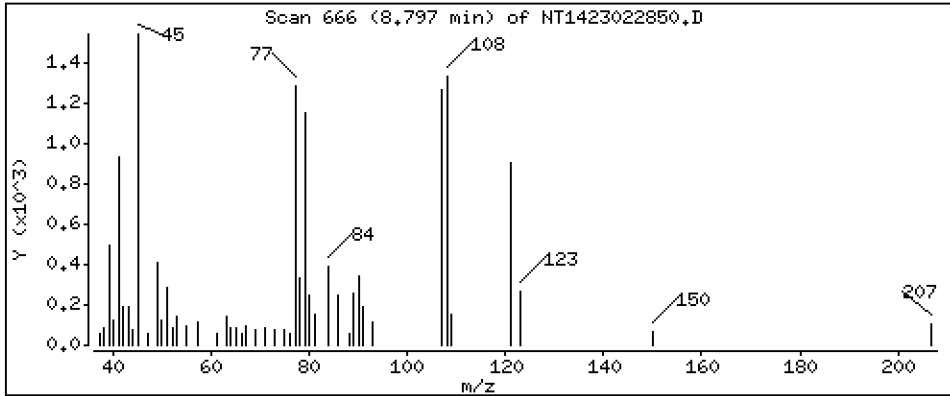
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 0,2023 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

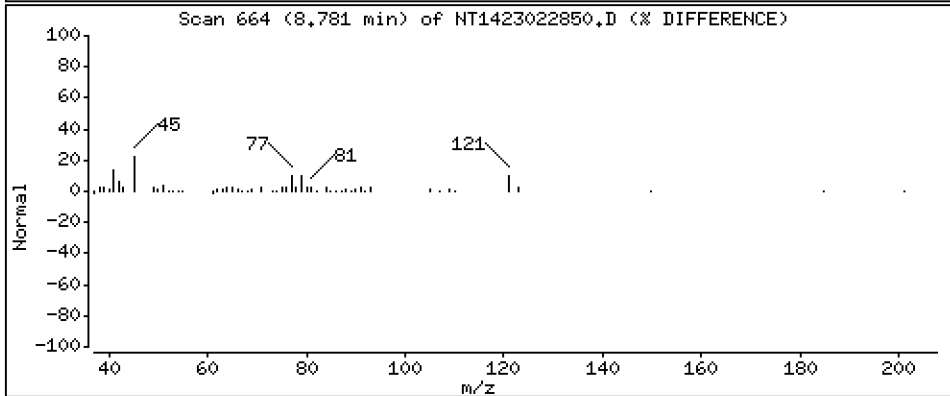
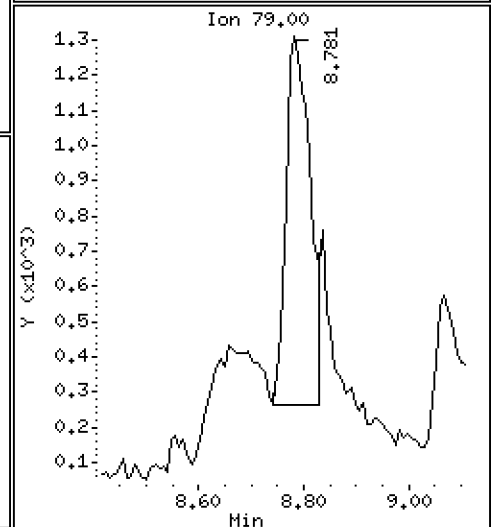
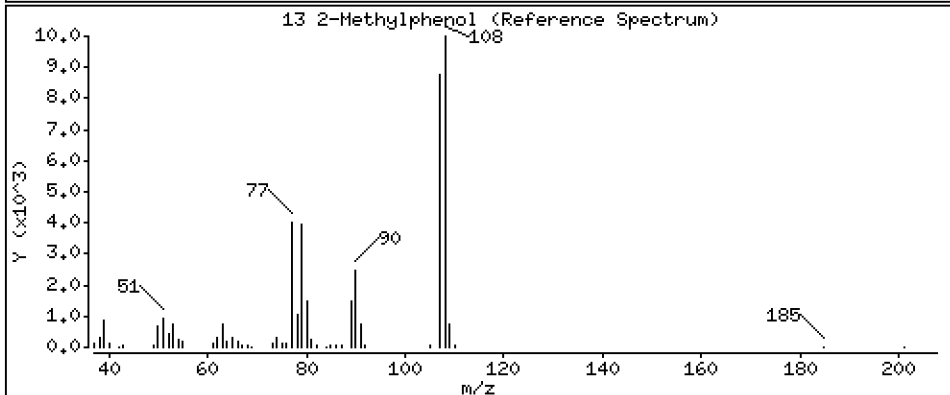
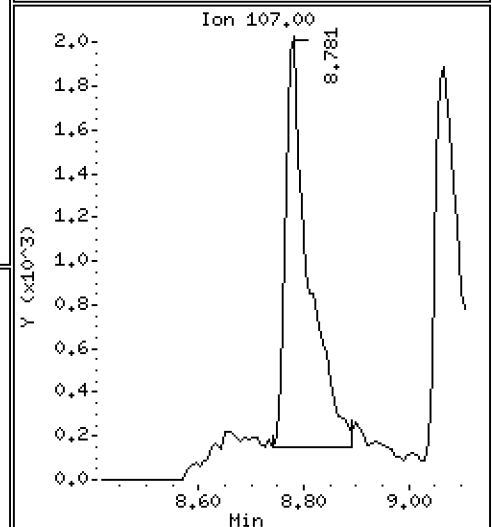
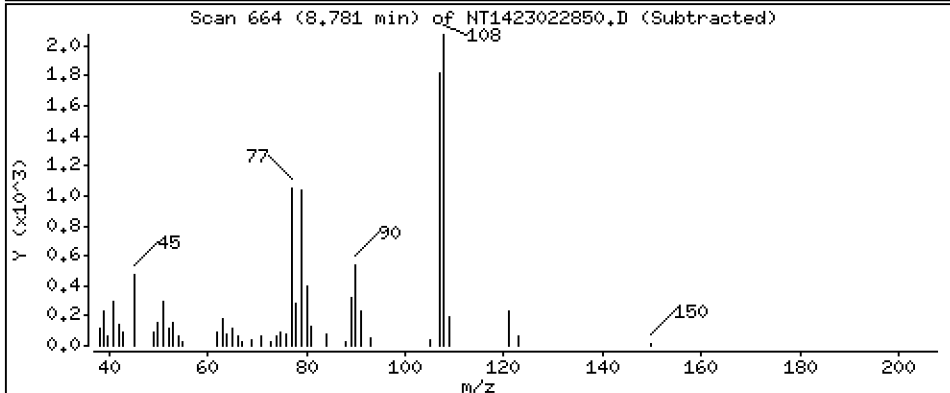
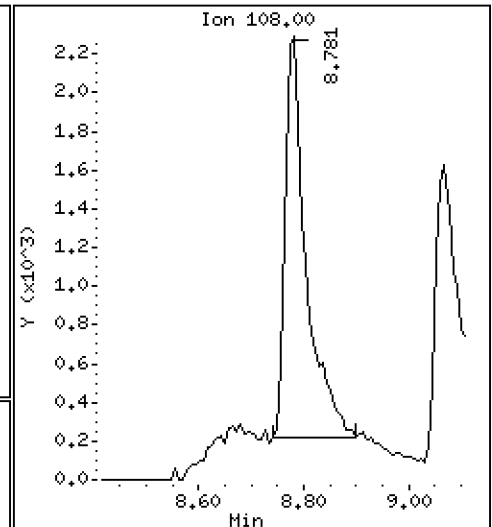
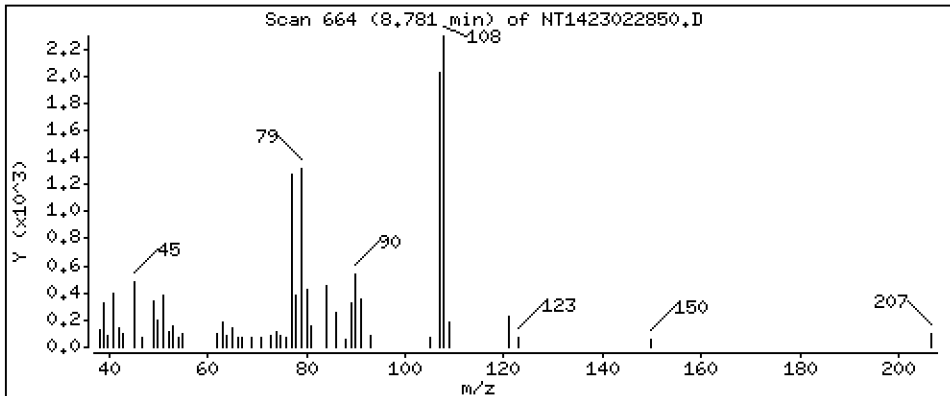
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.1738 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

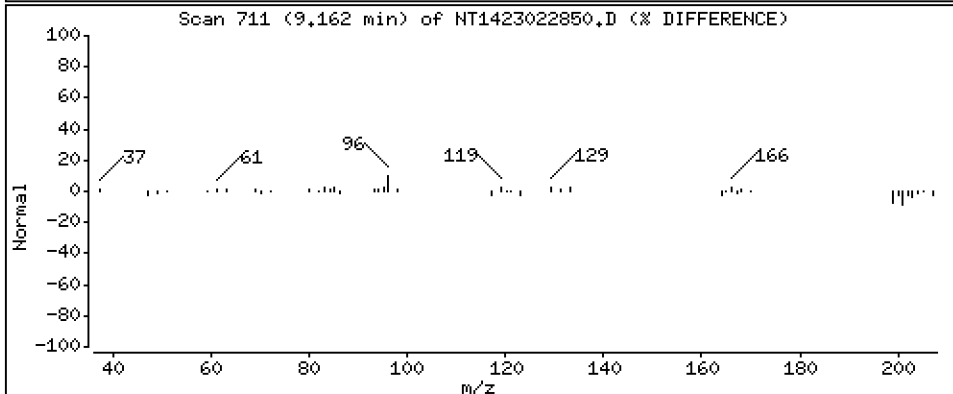
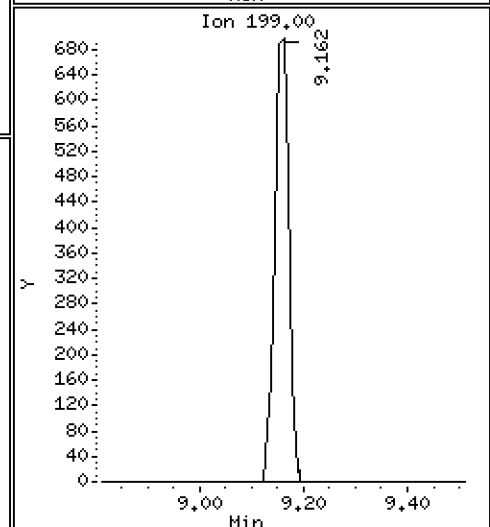
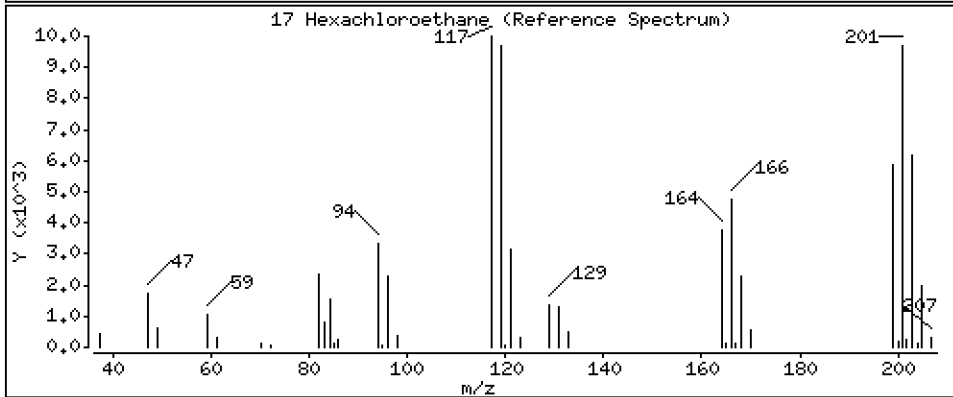
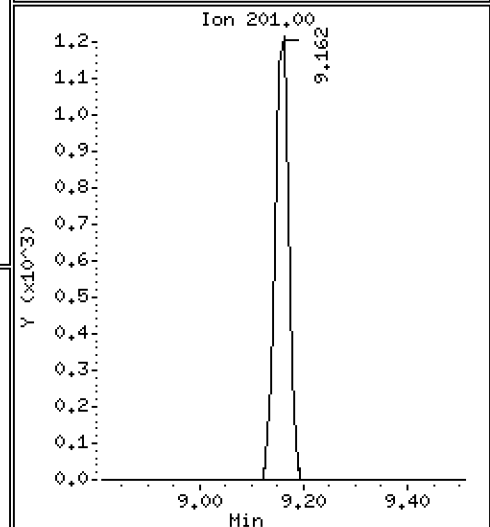
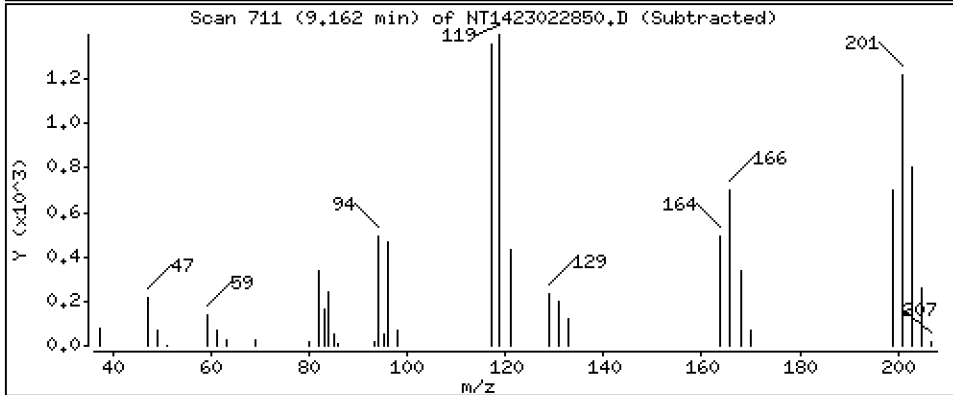
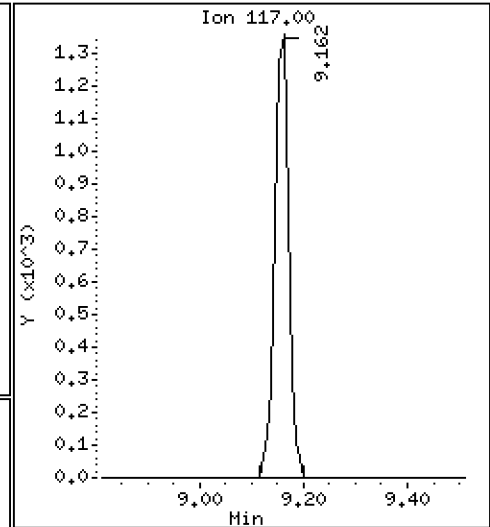
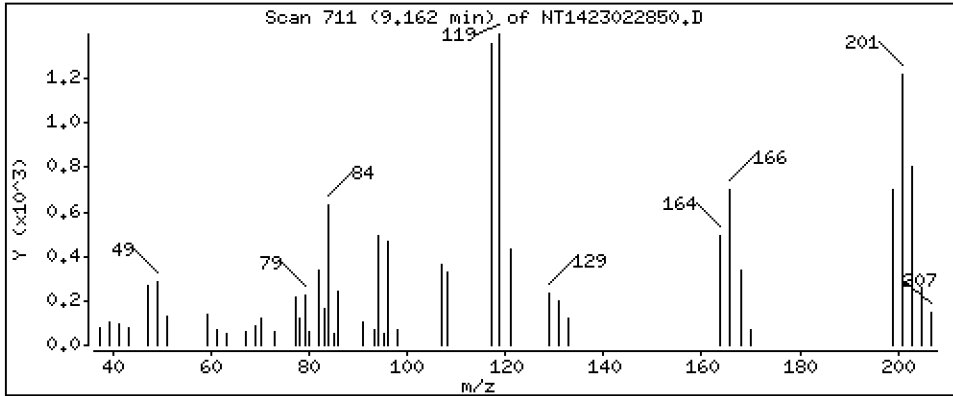
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 0.1509 ug/mL





Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

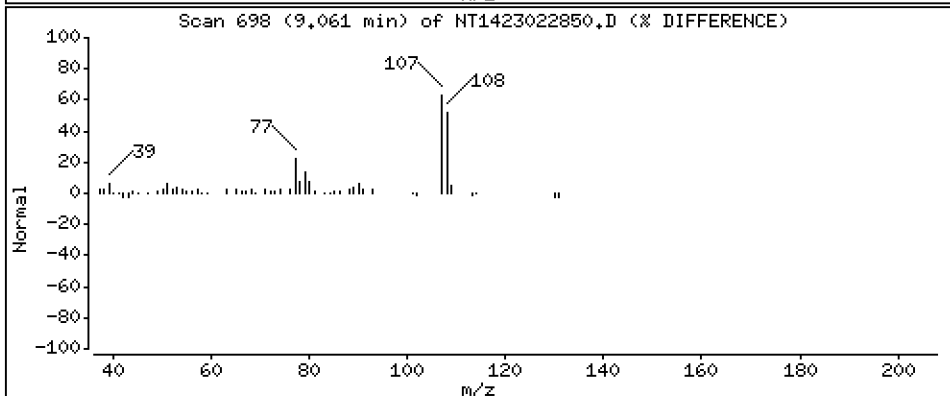
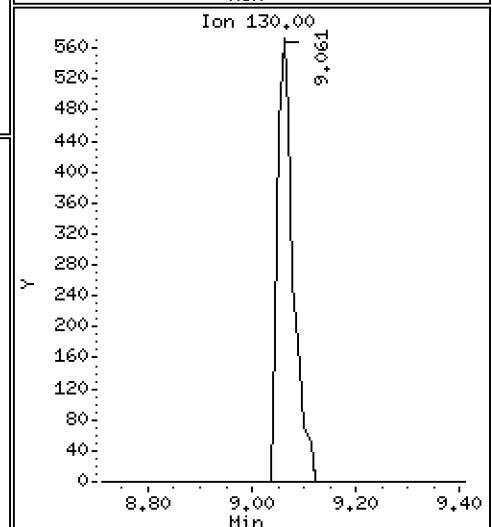
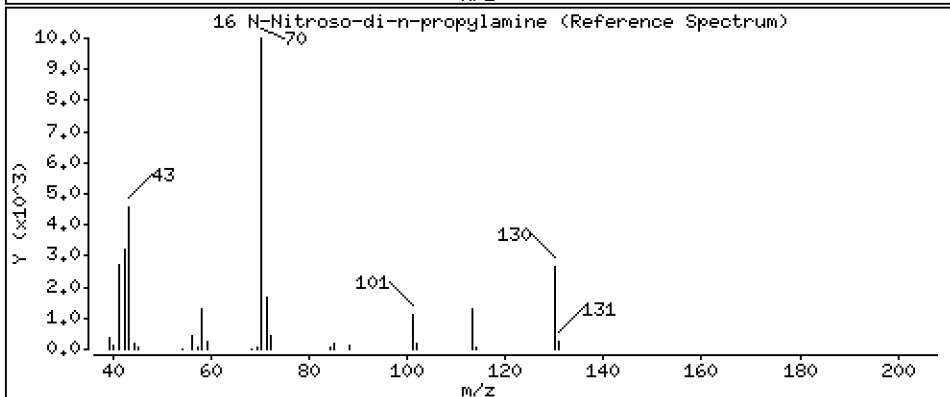
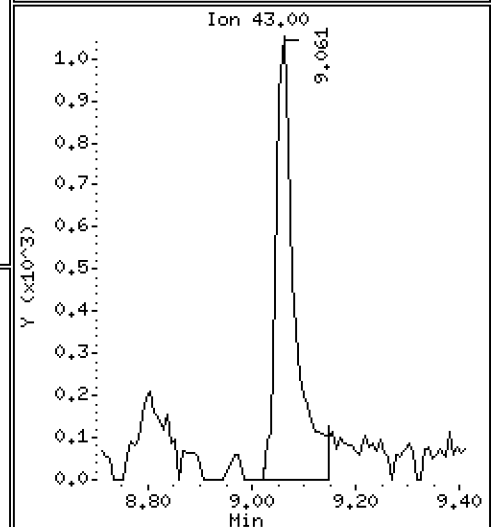
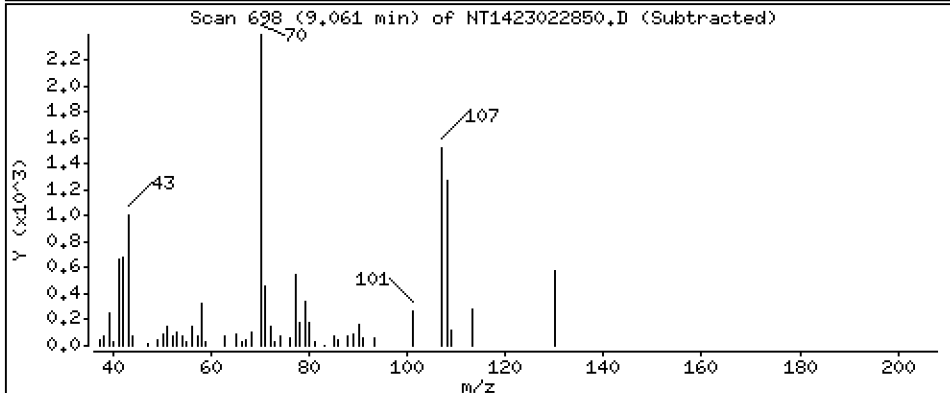
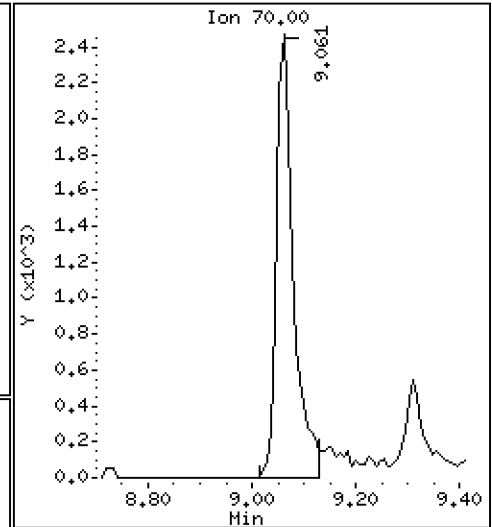
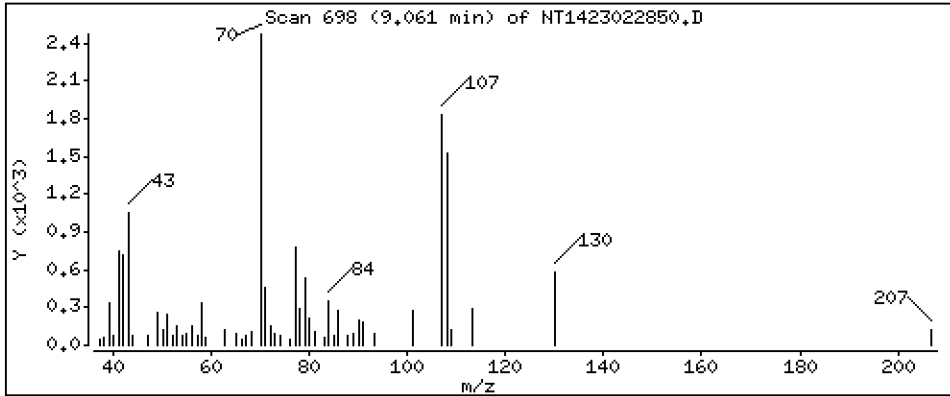
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 0.2121 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

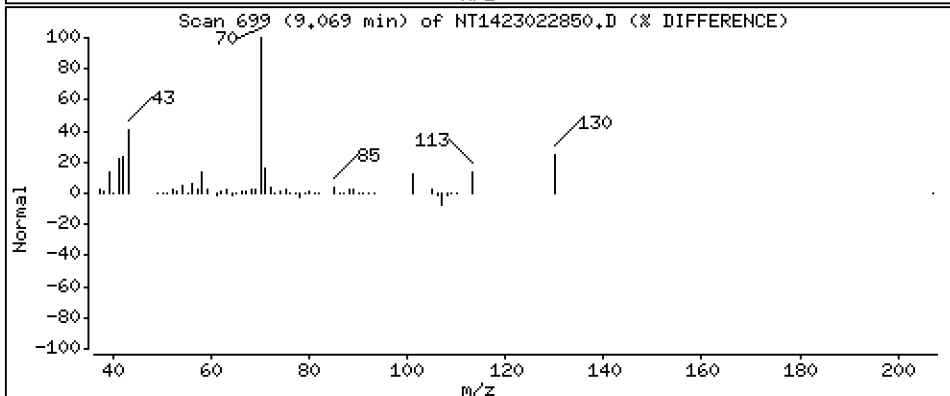
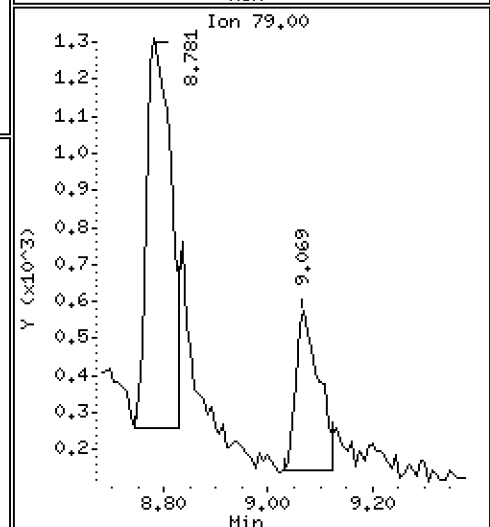
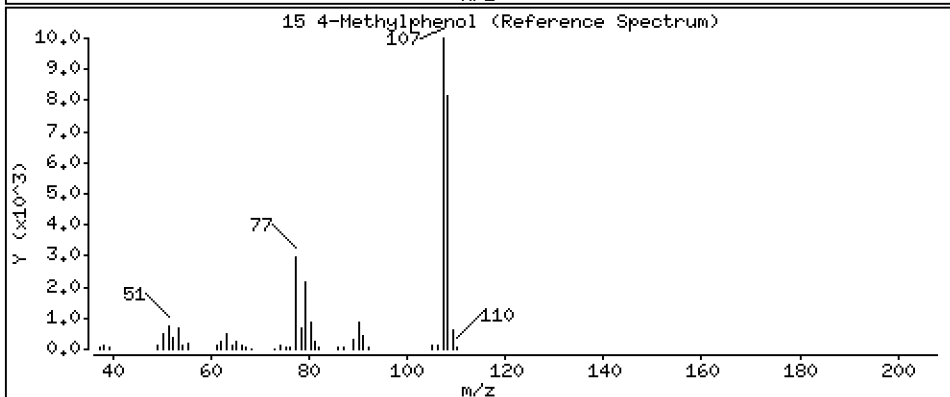
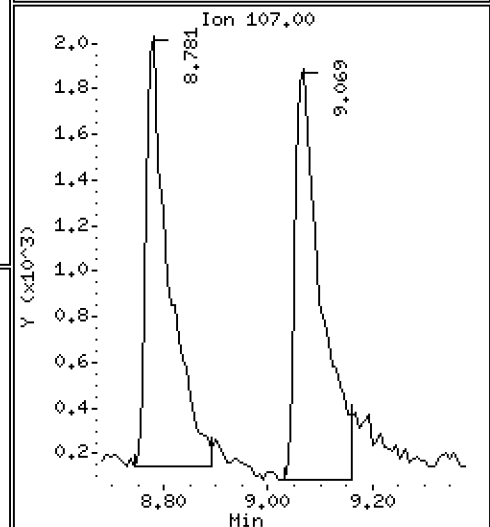
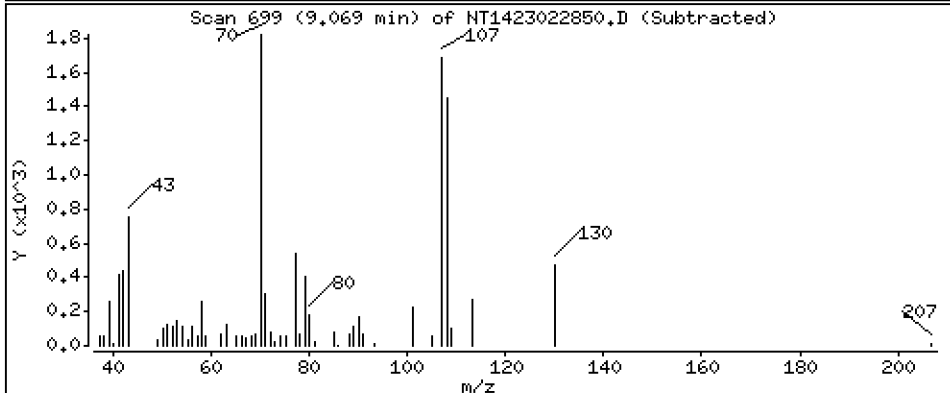
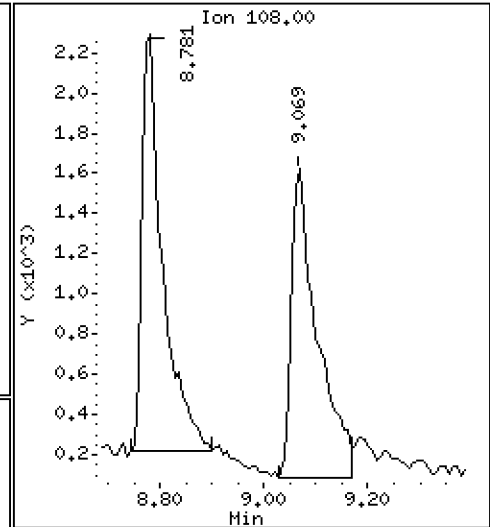
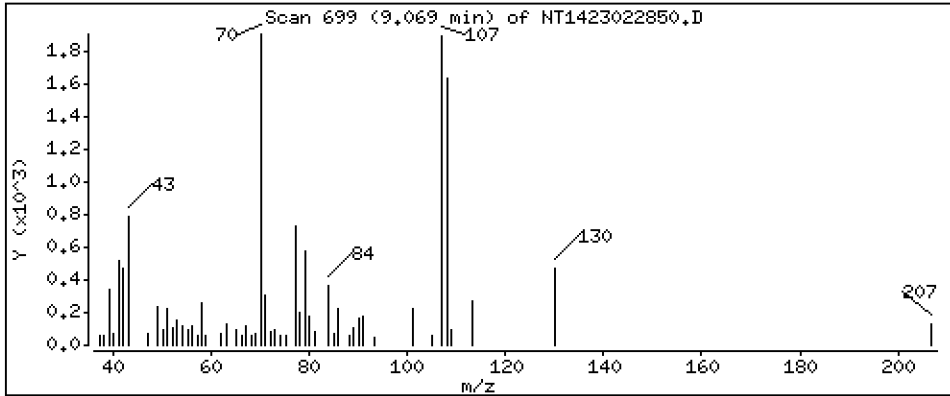
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

Concentration: 0.1399 ug/mL

15 4-Methylphenol



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

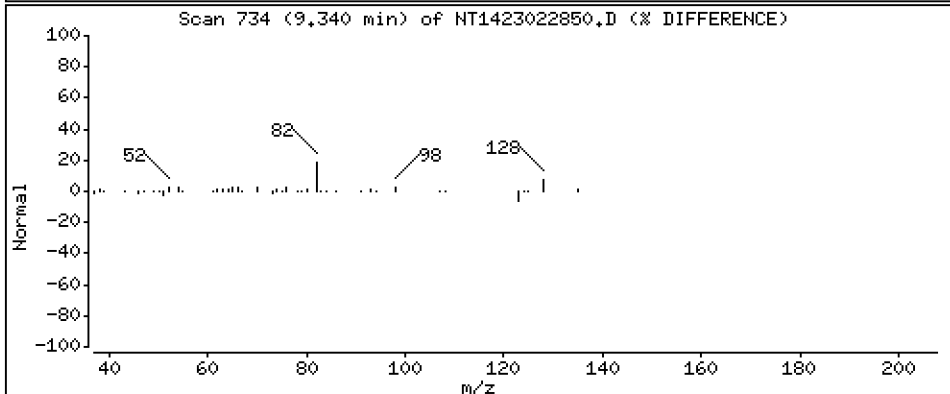
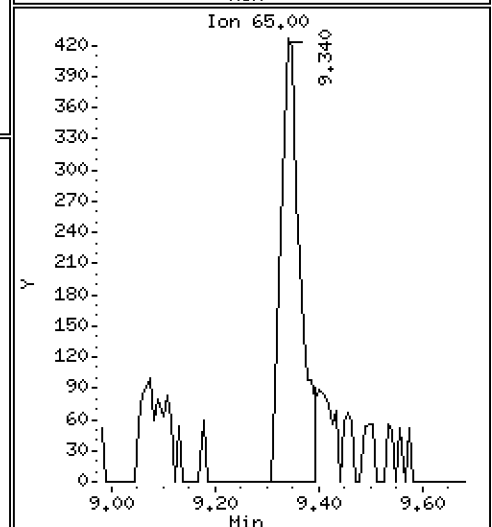
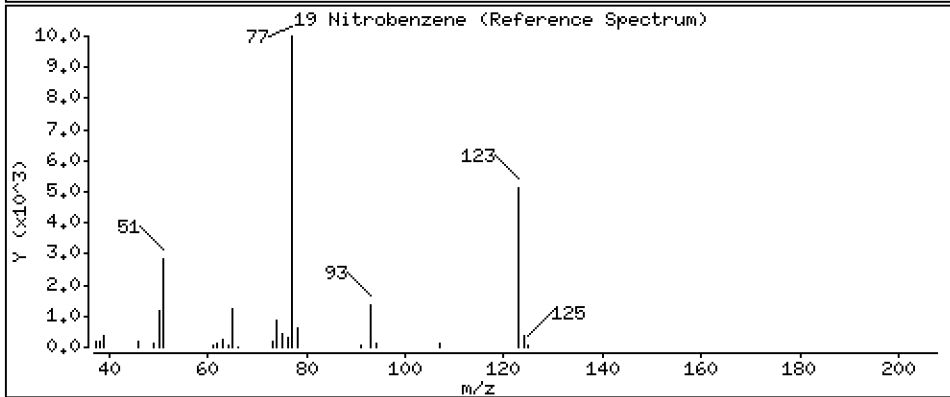
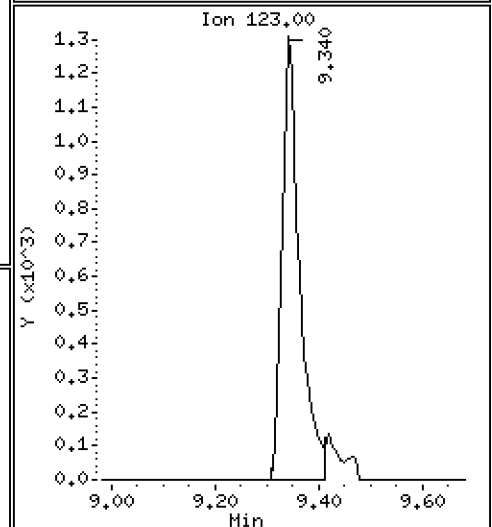
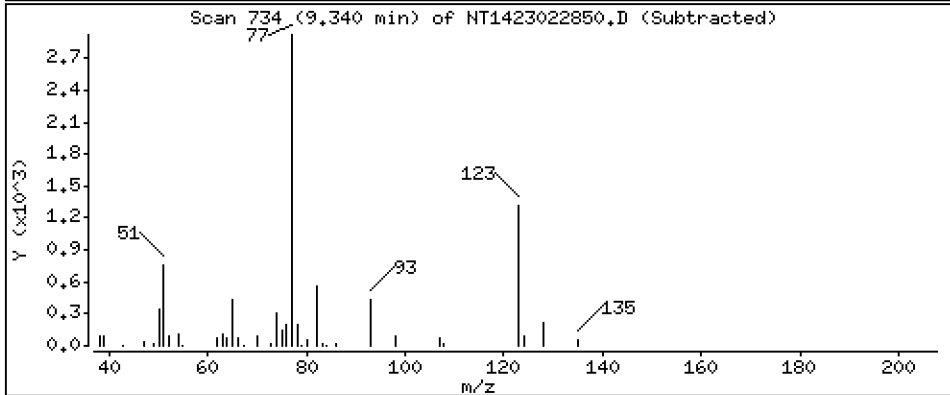
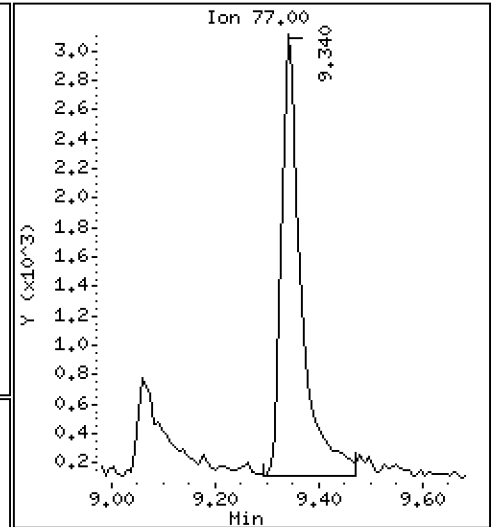
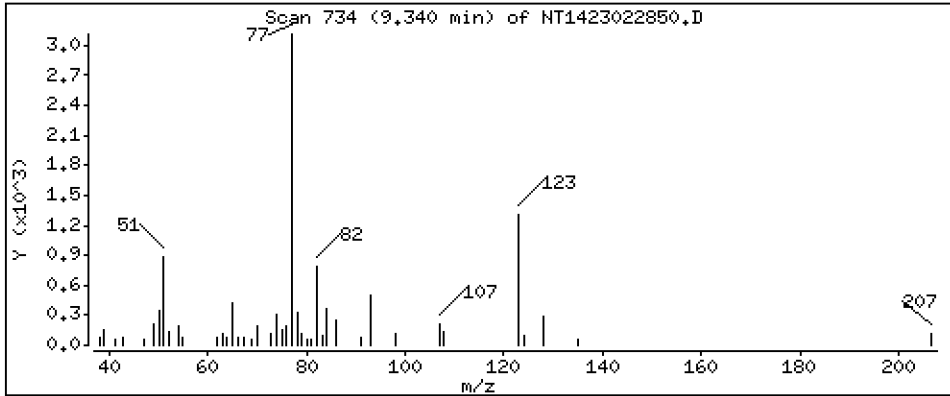
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

19 Nitrobenzene

Concentration: 0.2048 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

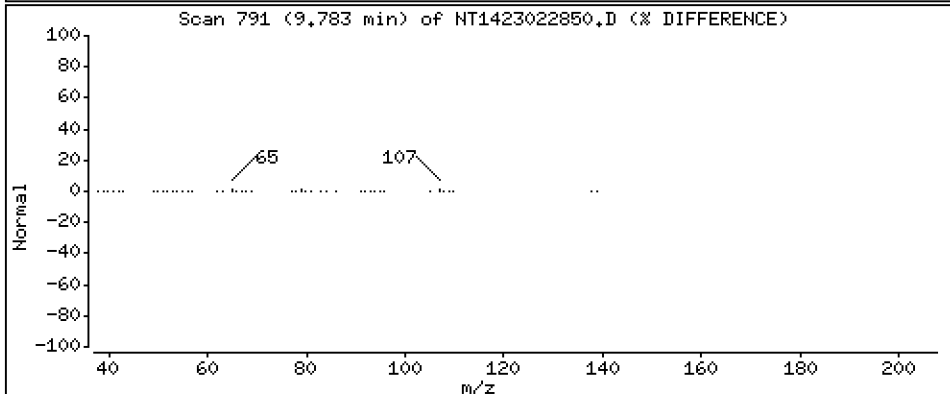
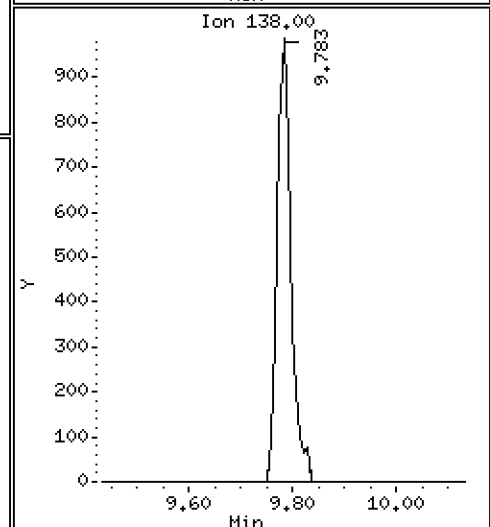
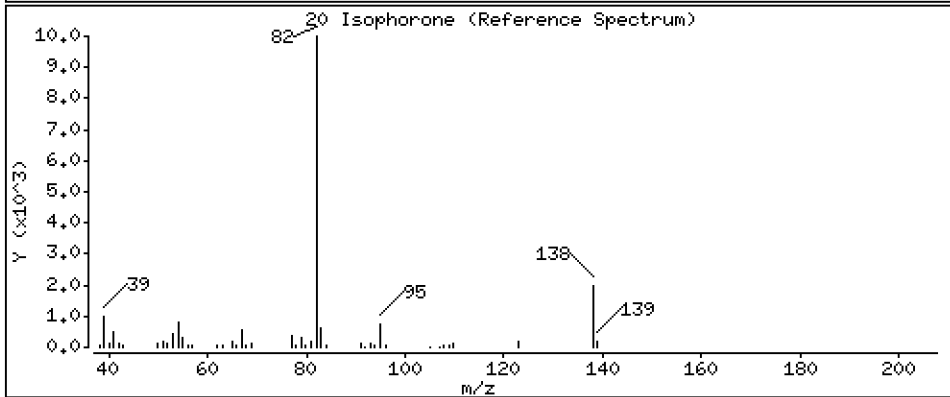
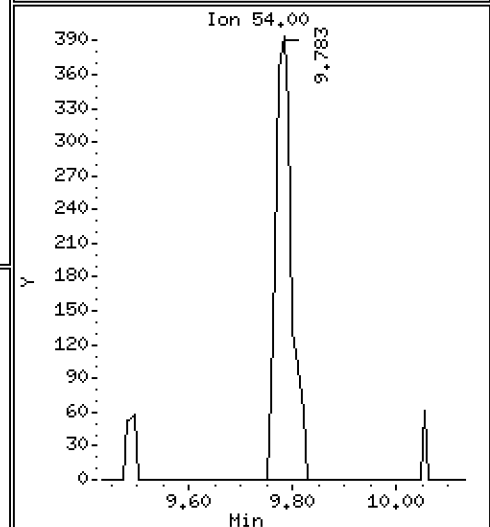
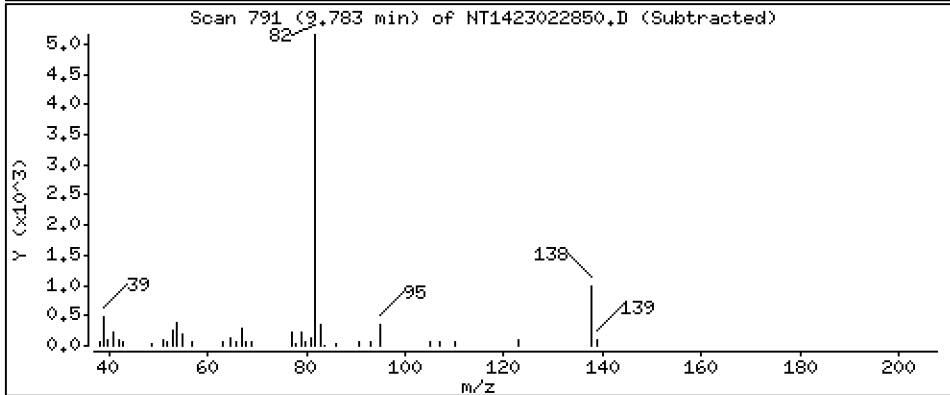
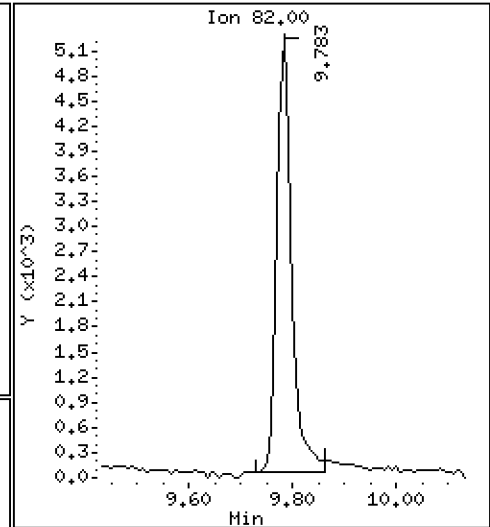
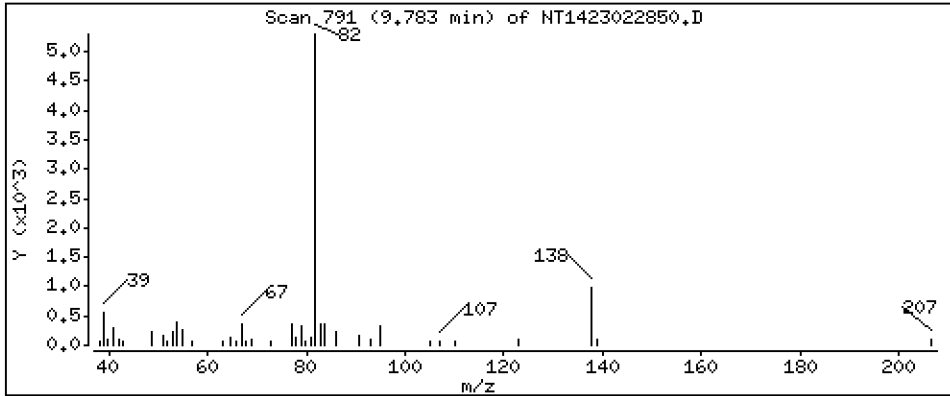
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.1640 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

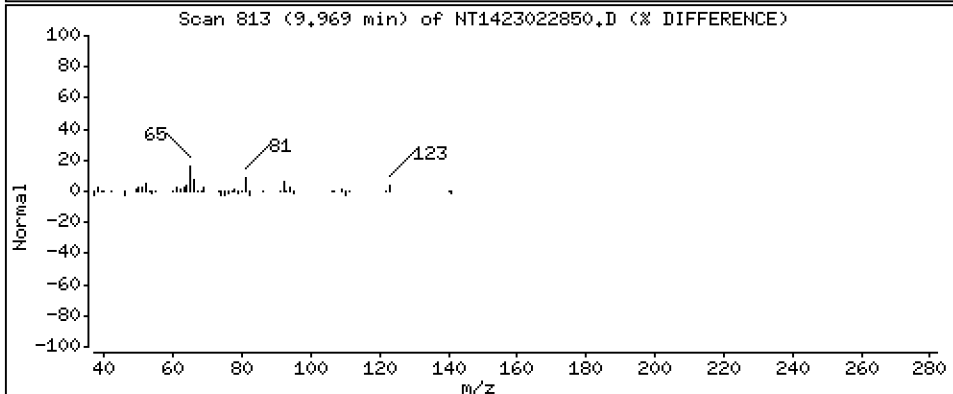
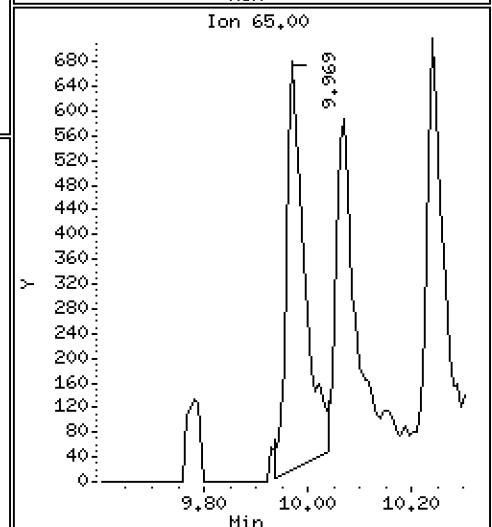
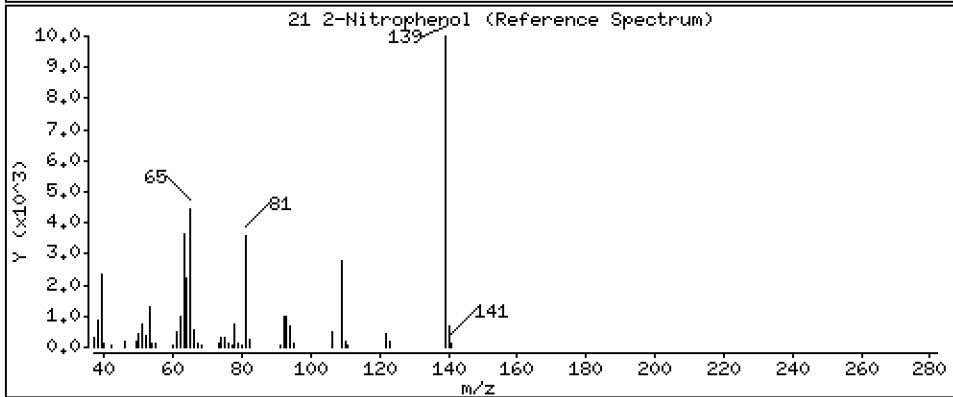
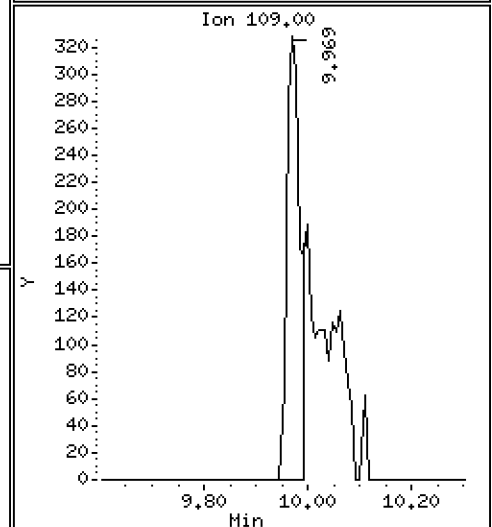
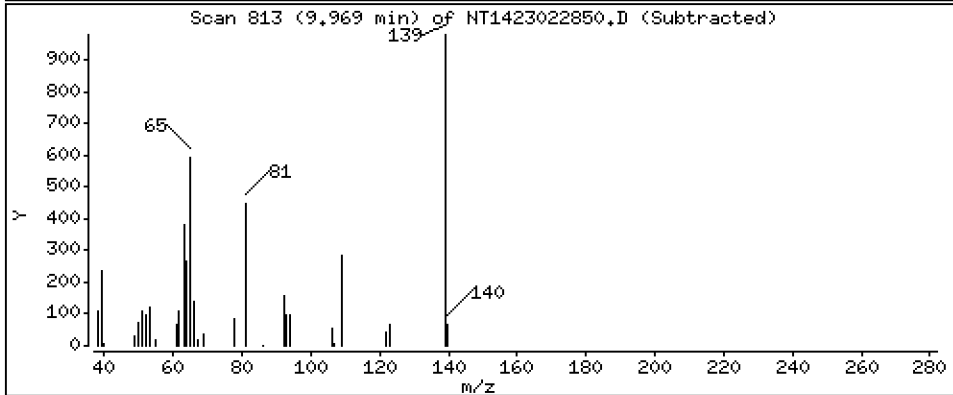
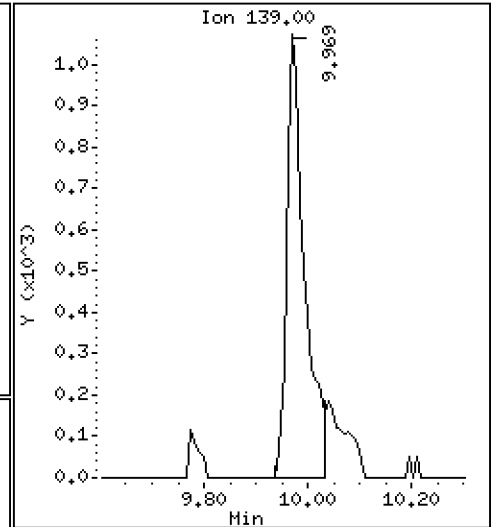
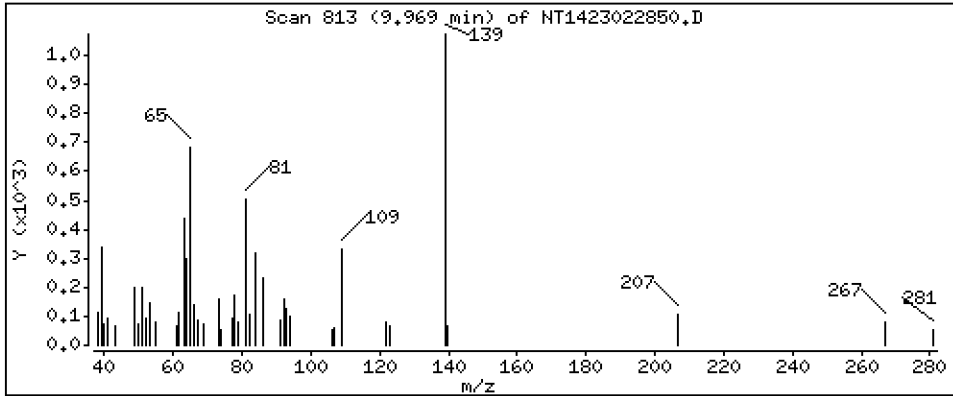
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,1308 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

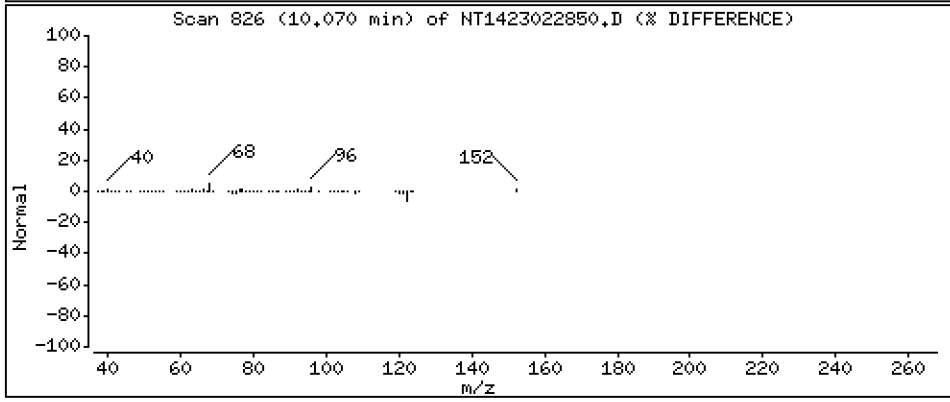
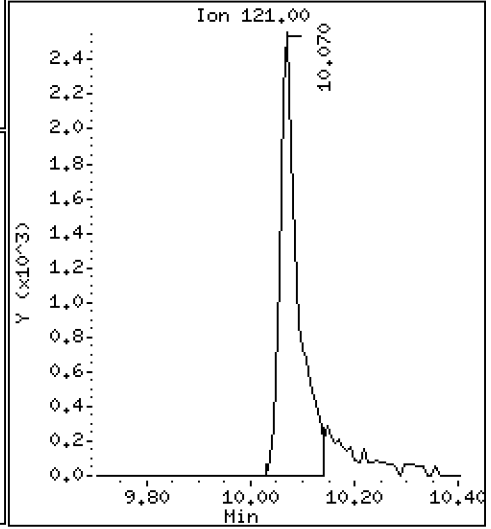
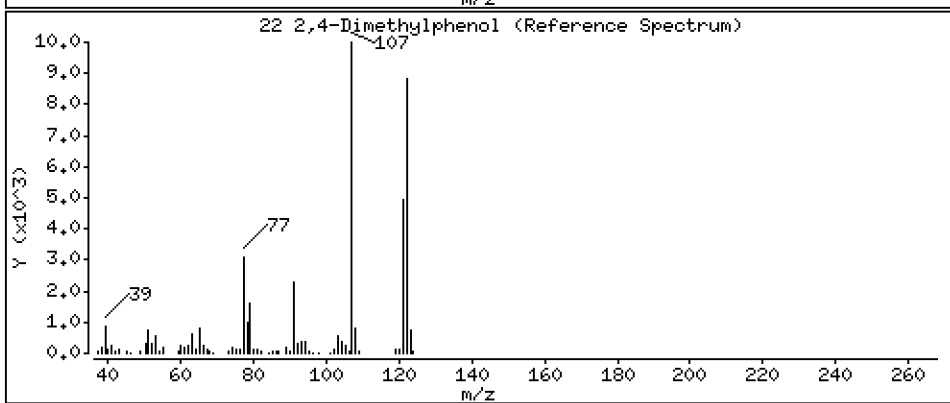
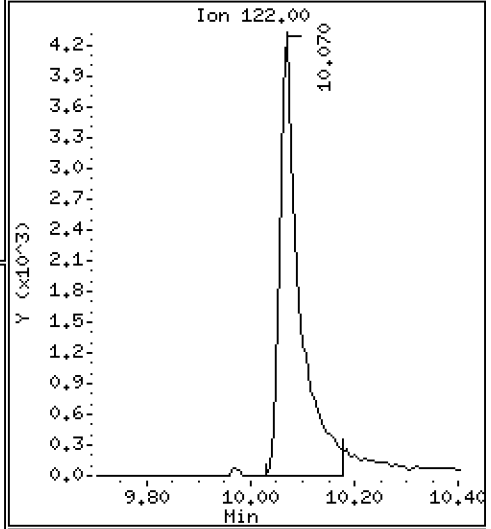
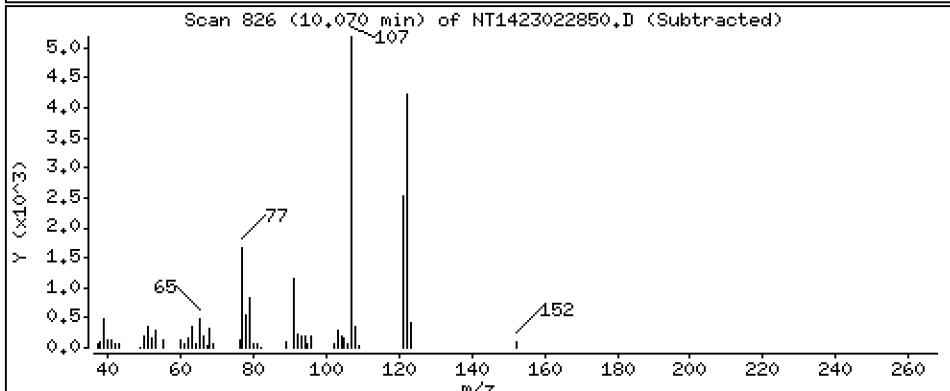
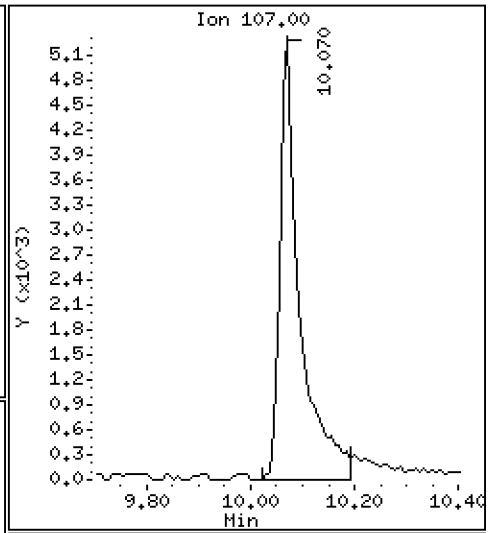
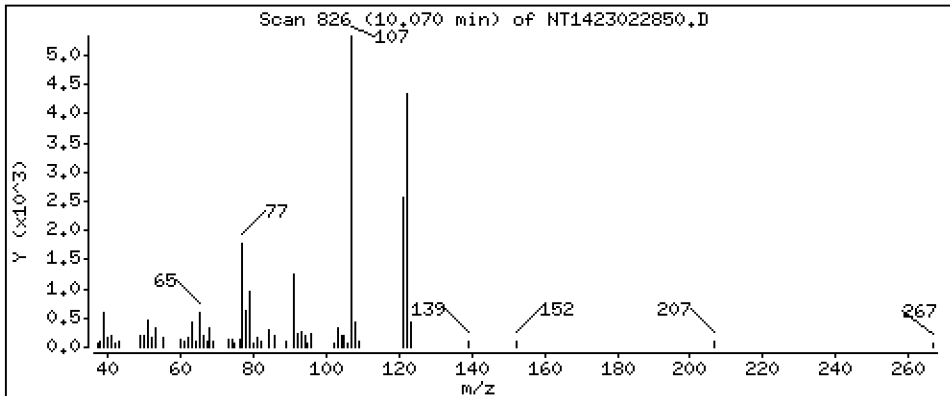
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,4067 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

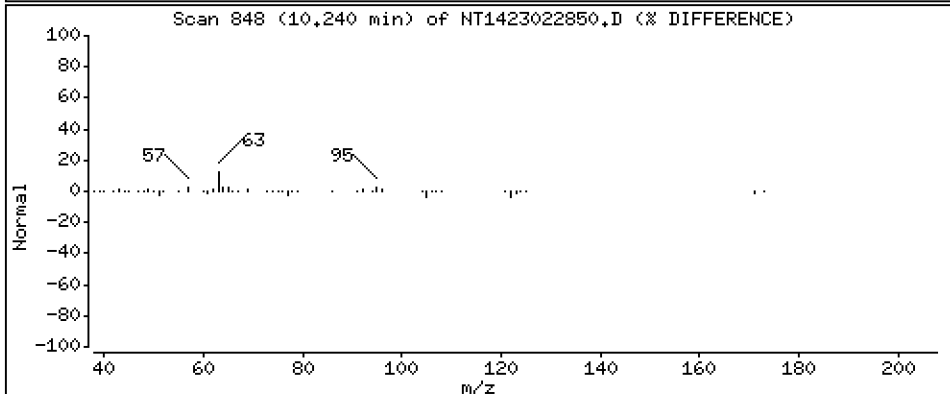
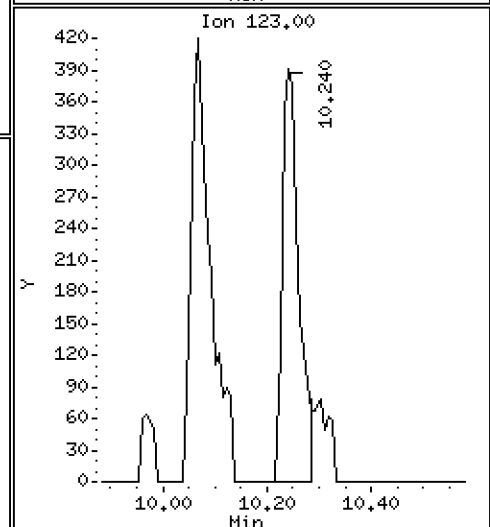
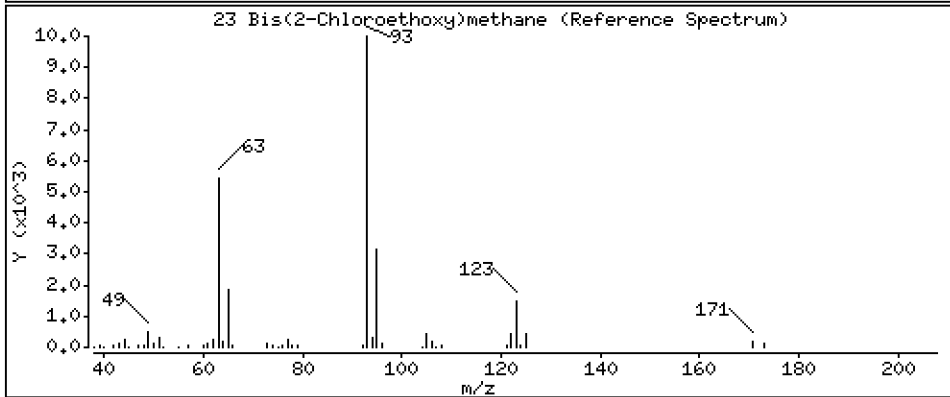
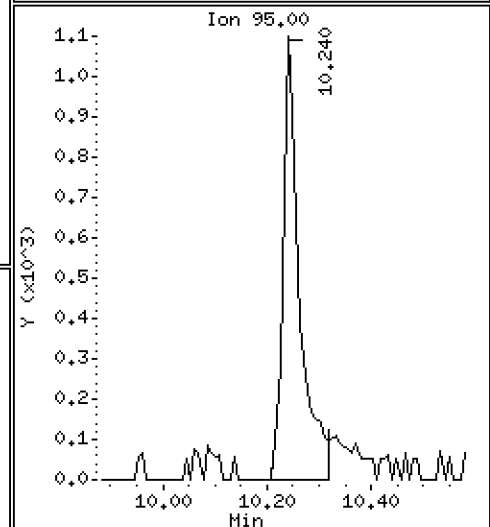
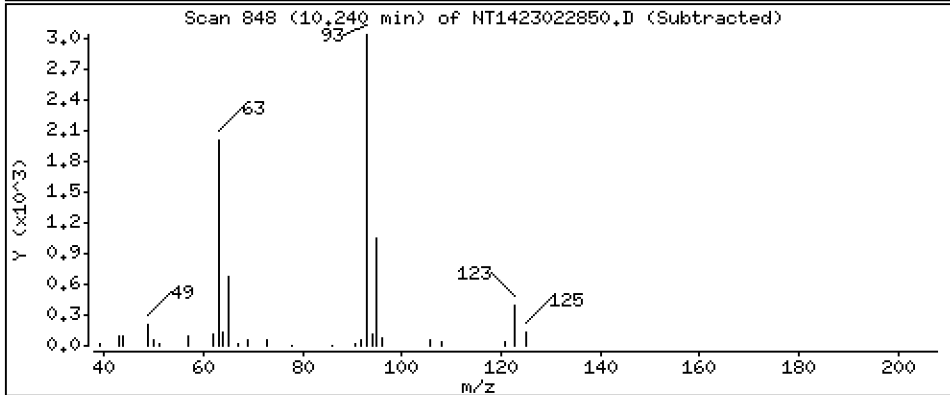
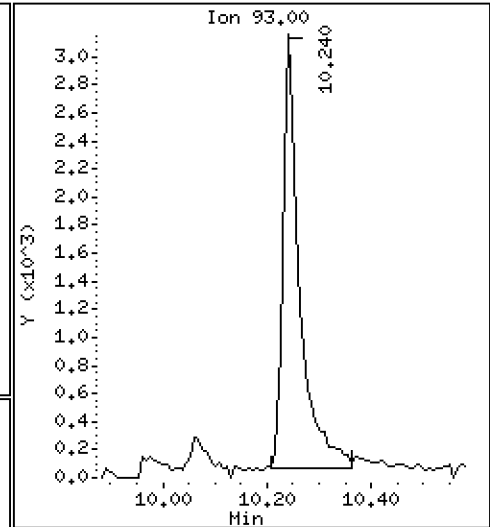
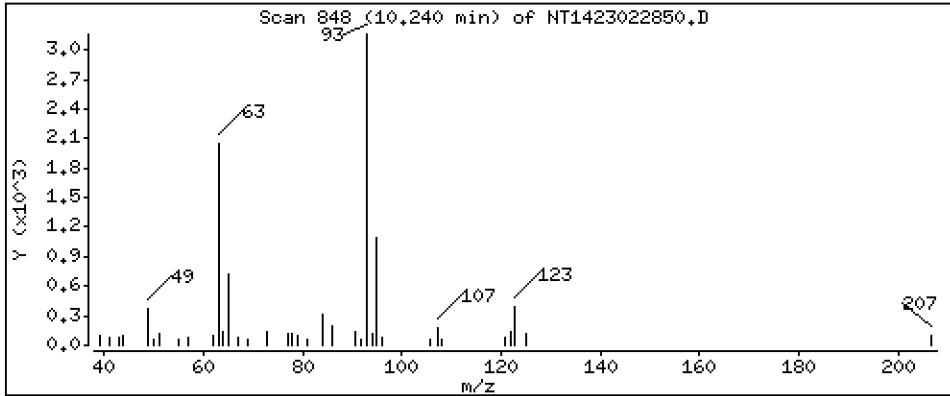
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,1817 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

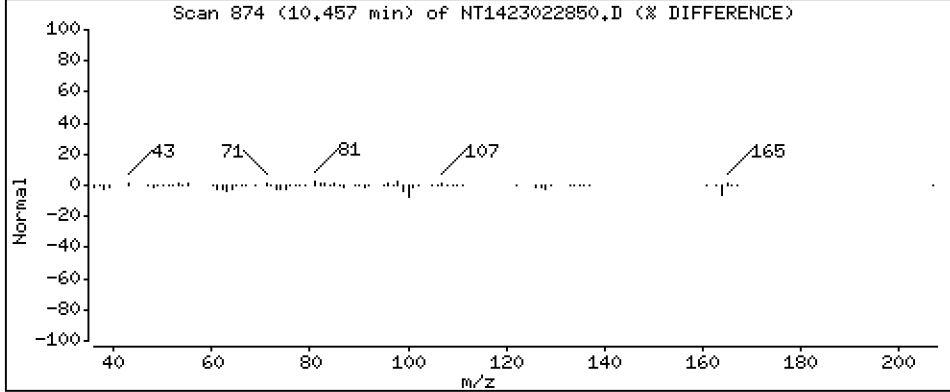
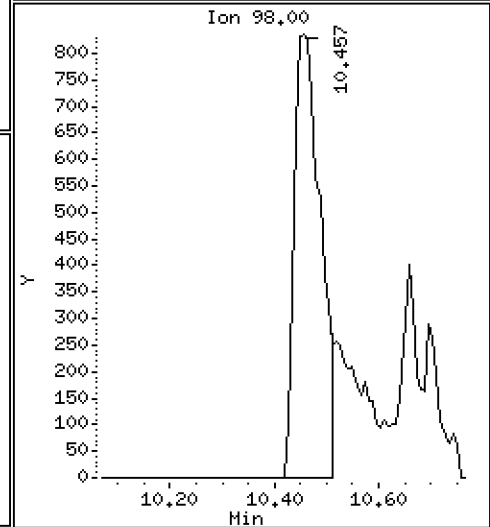
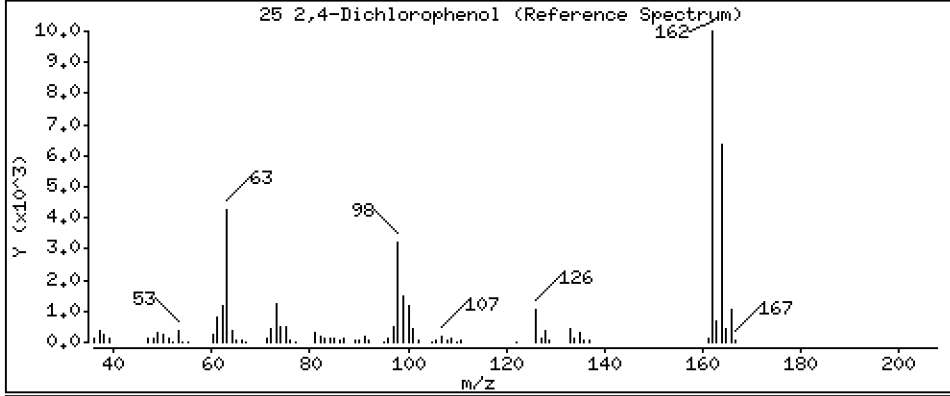
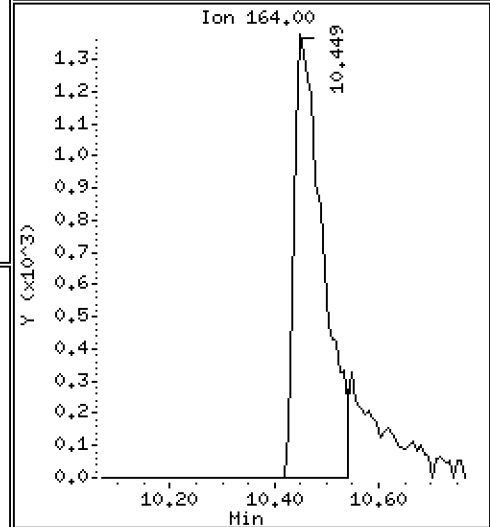
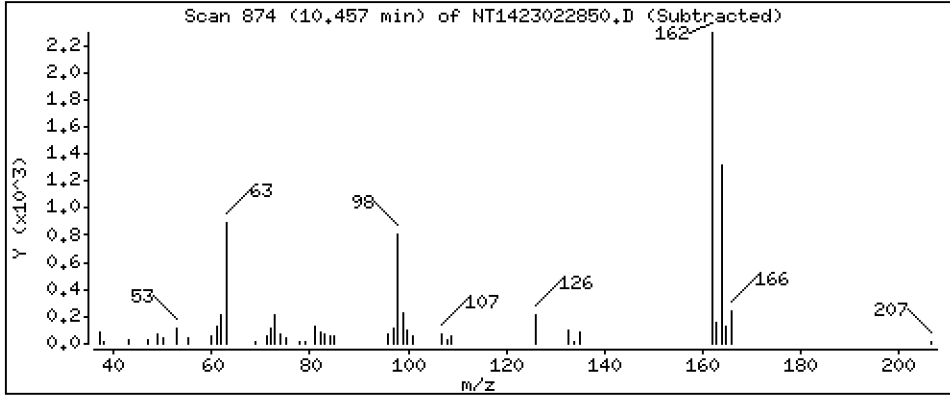
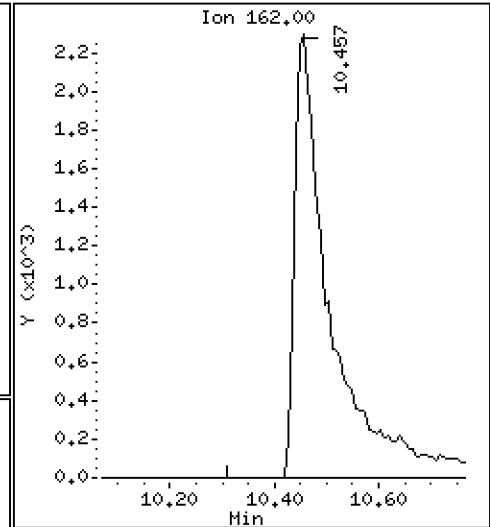
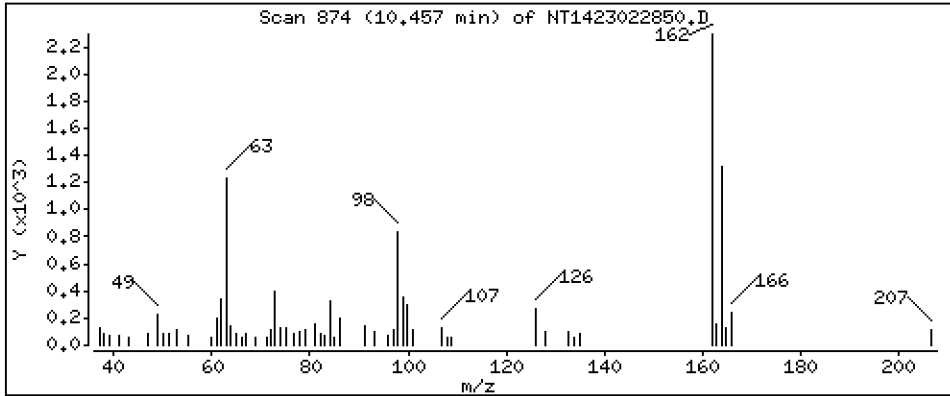
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,3293 ug/mL





Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

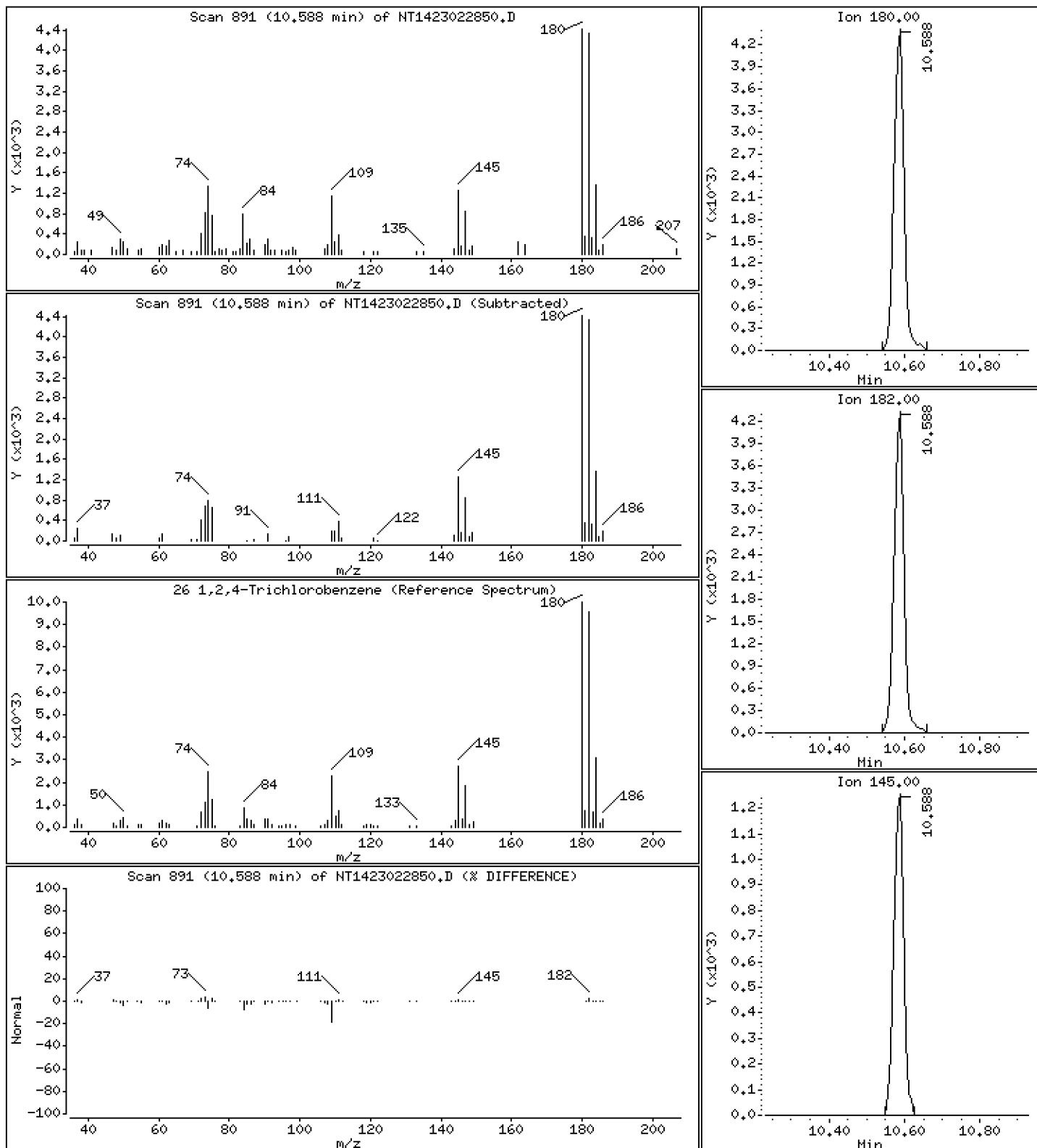
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,1955 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

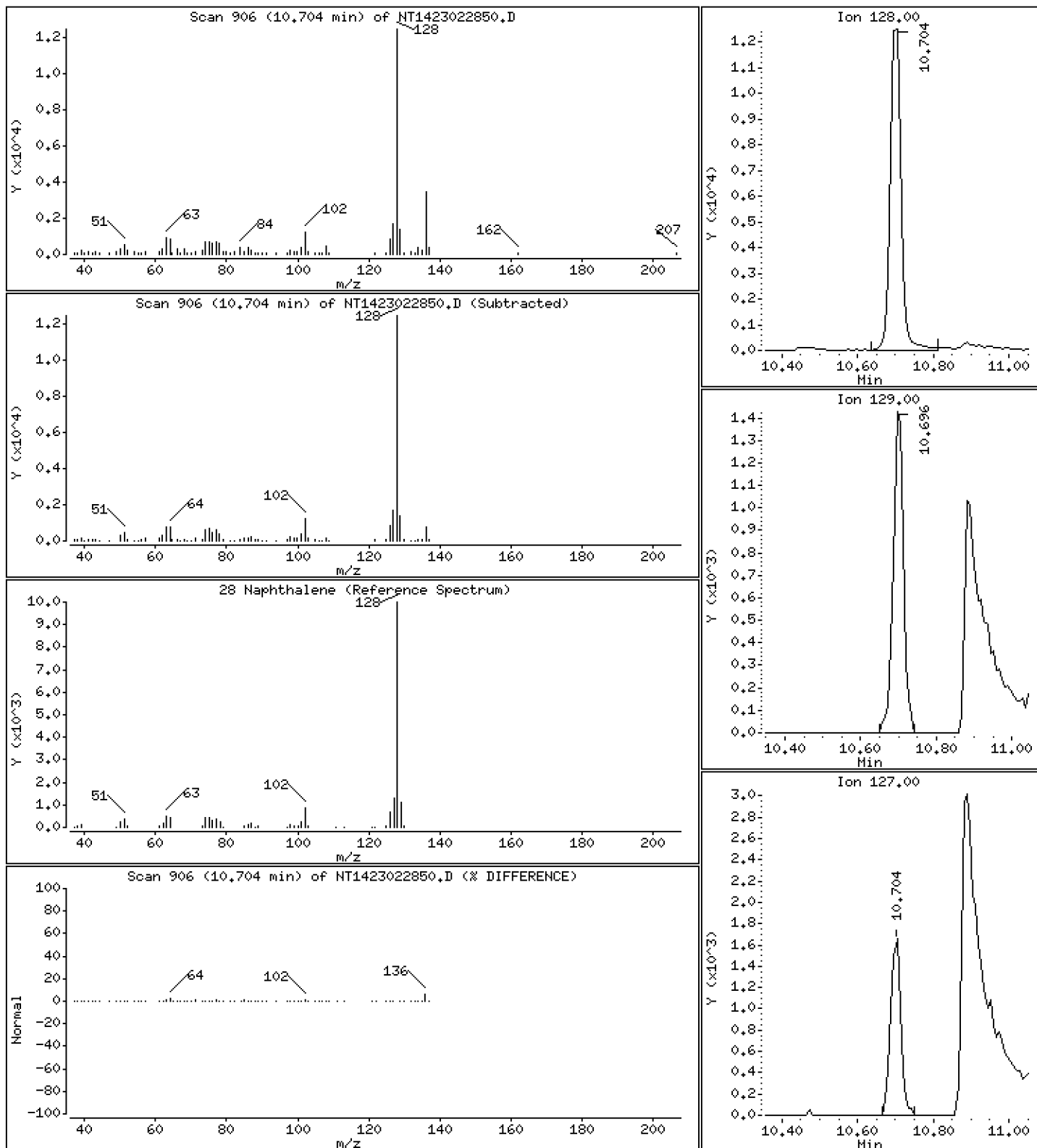
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2182 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

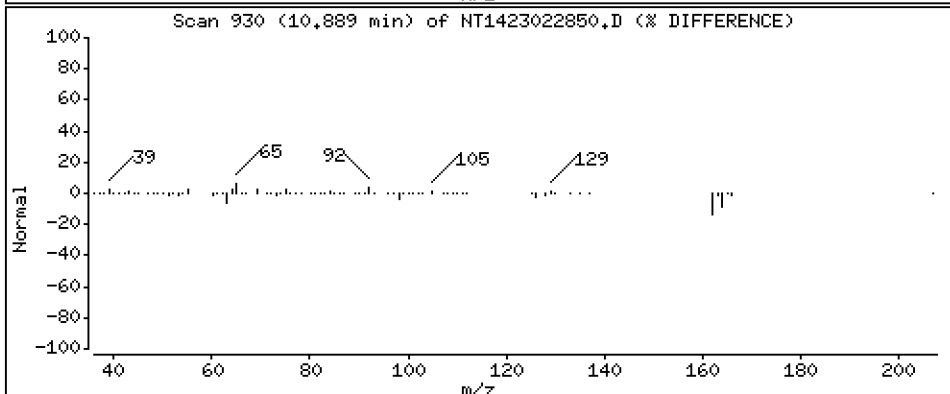
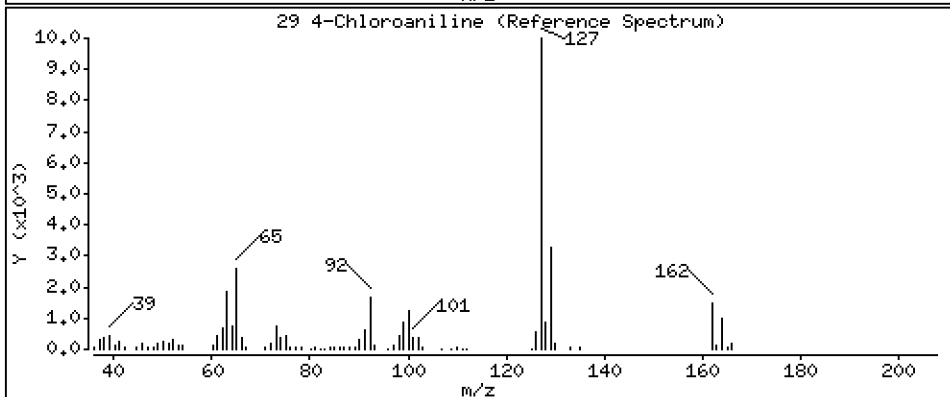
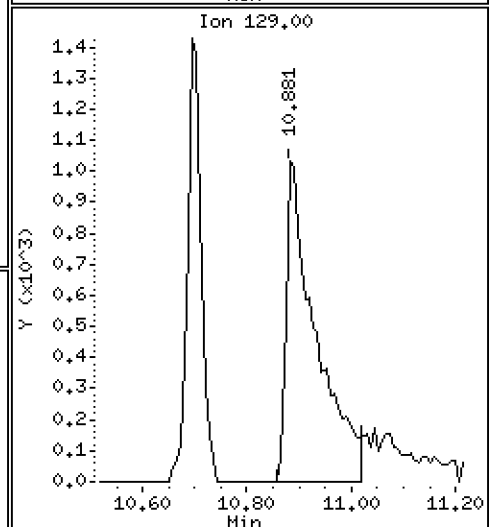
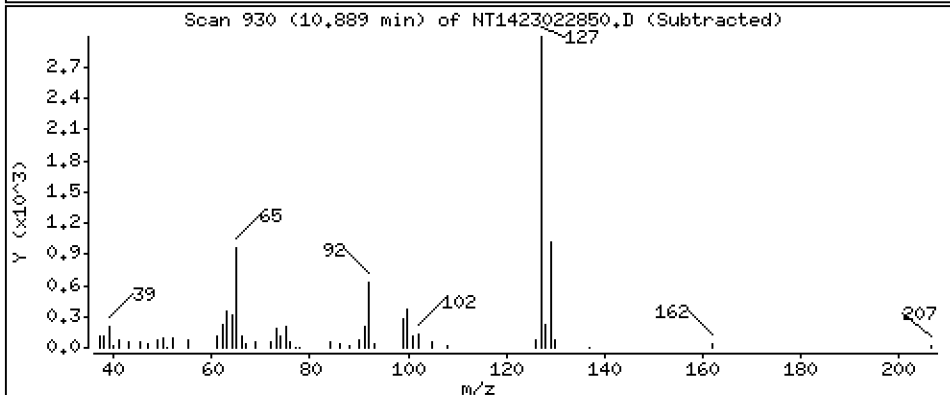
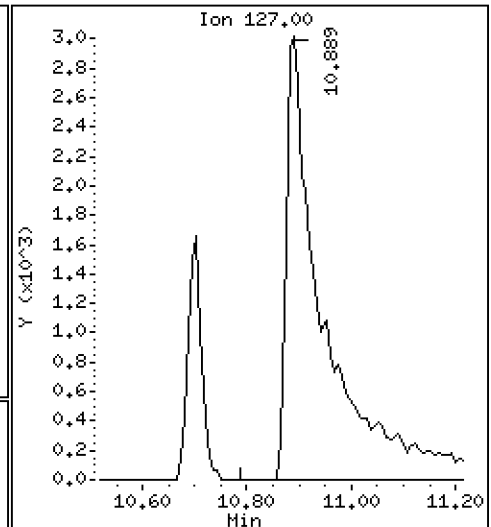
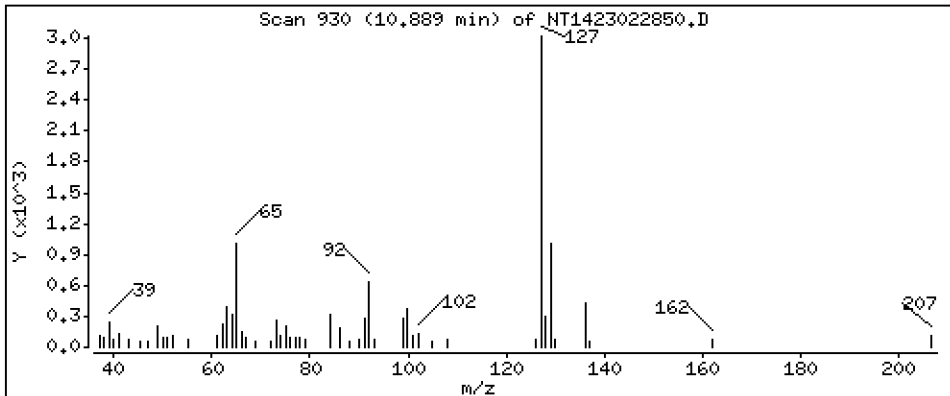
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3426 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

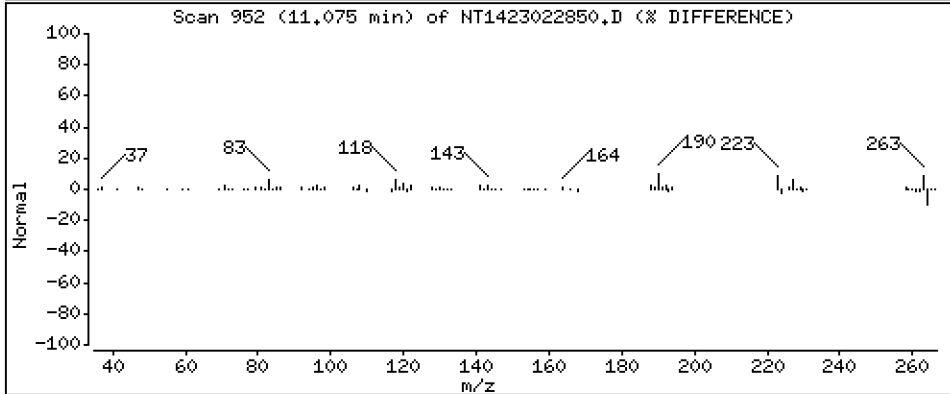
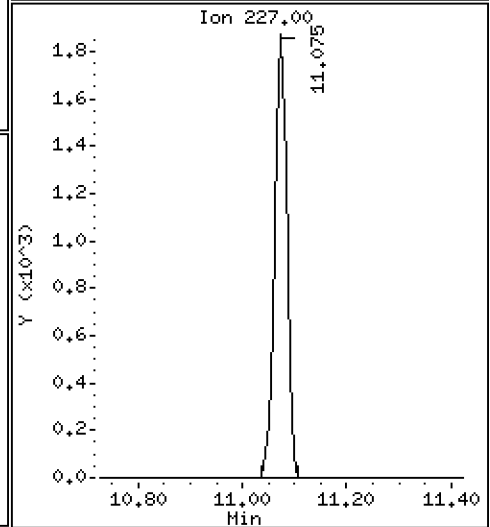
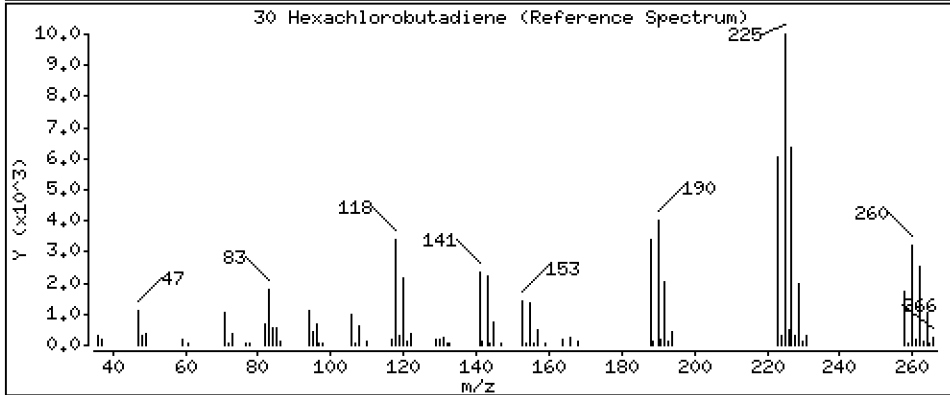
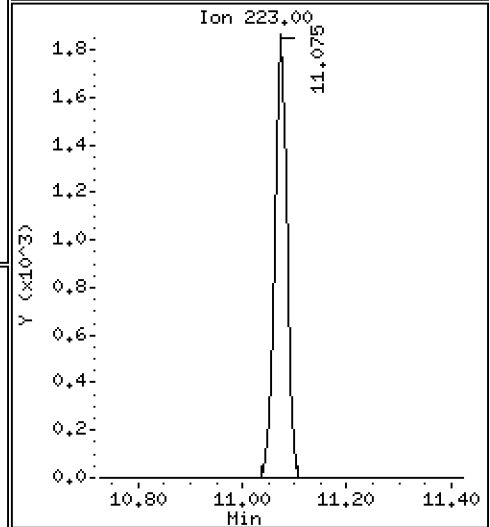
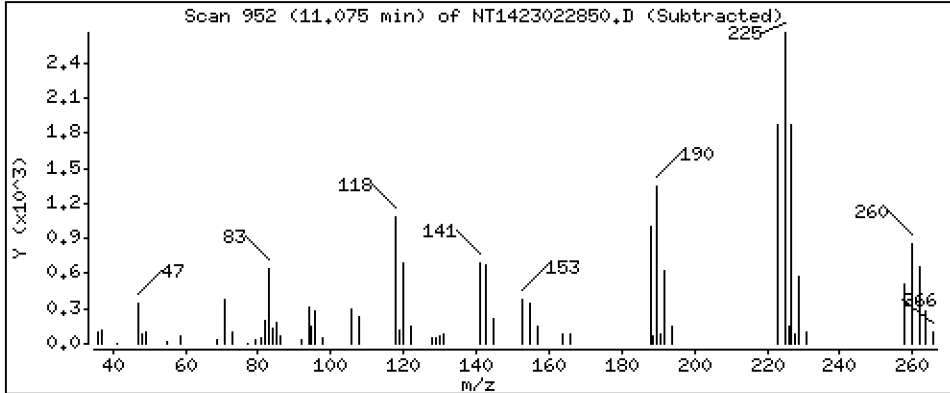
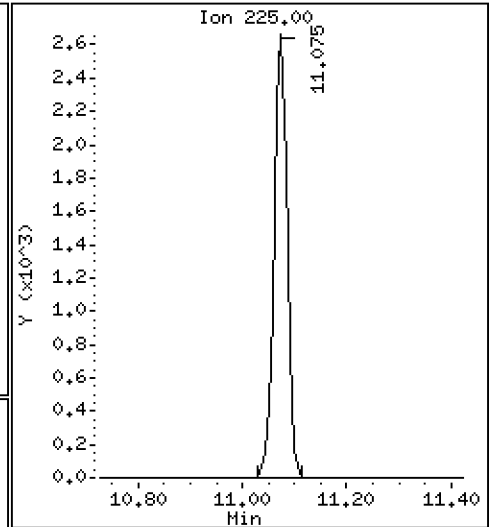
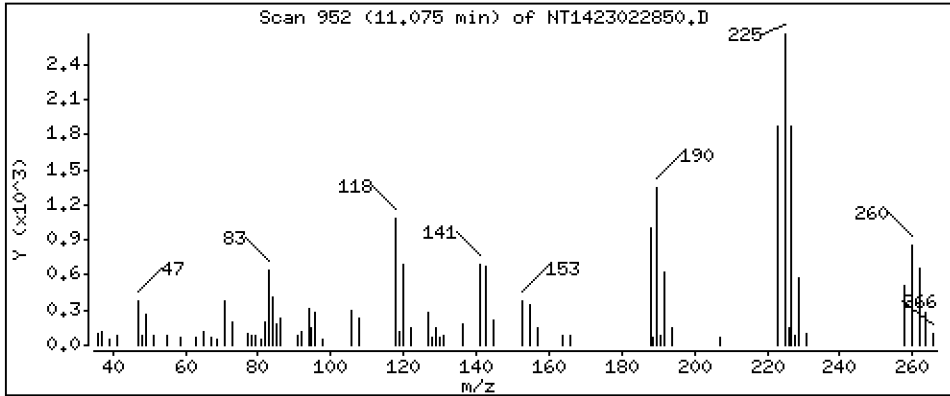
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,1812 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

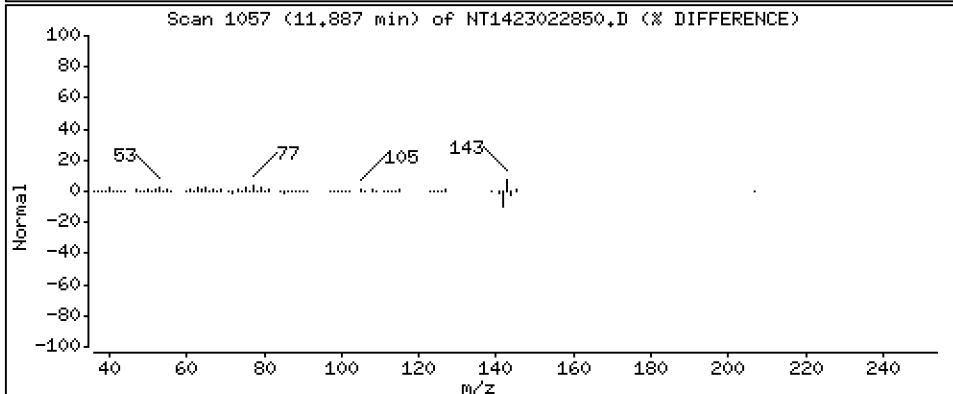
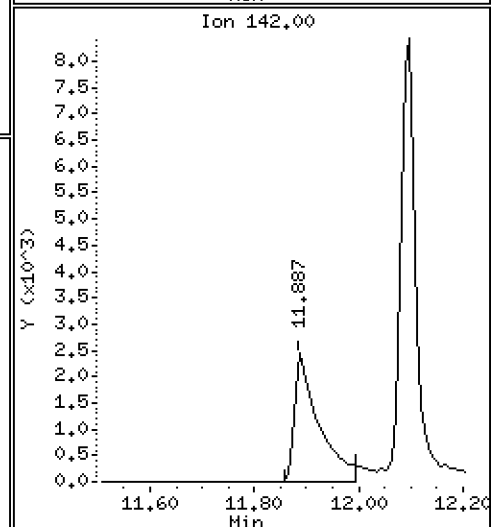
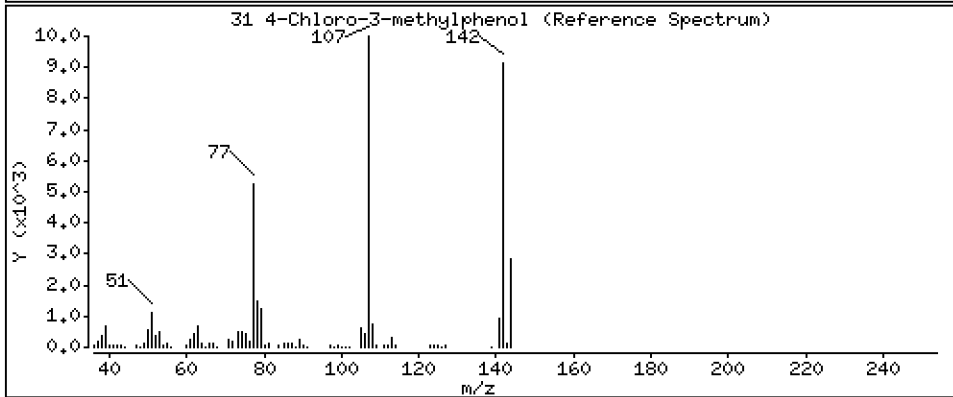
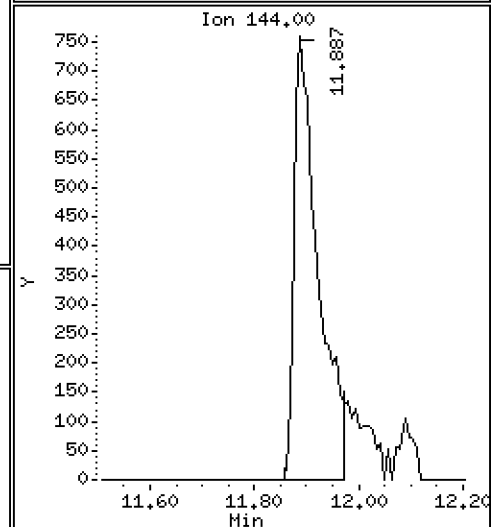
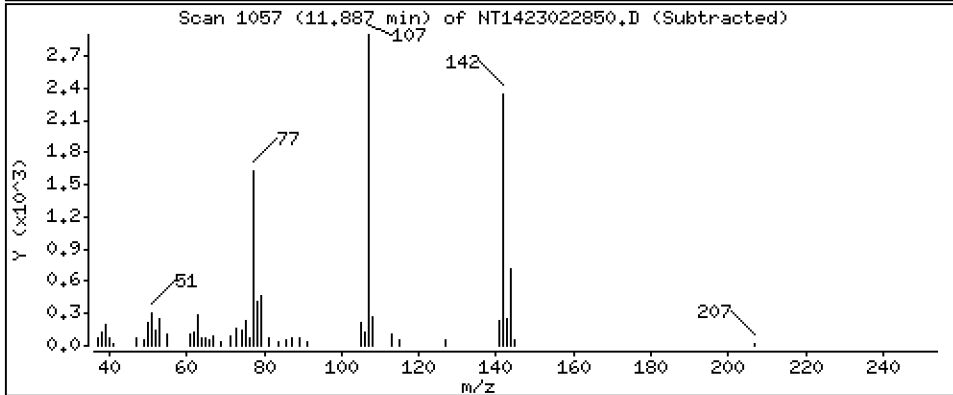
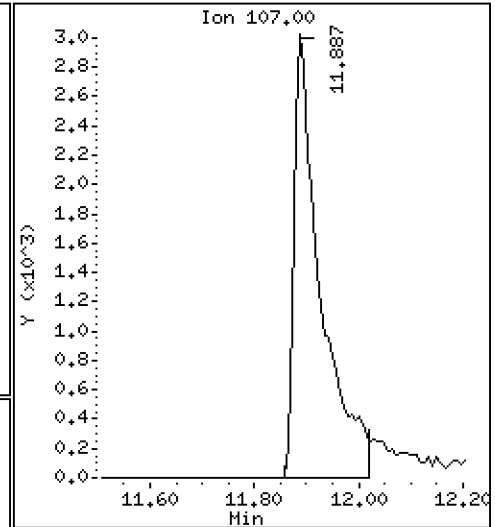
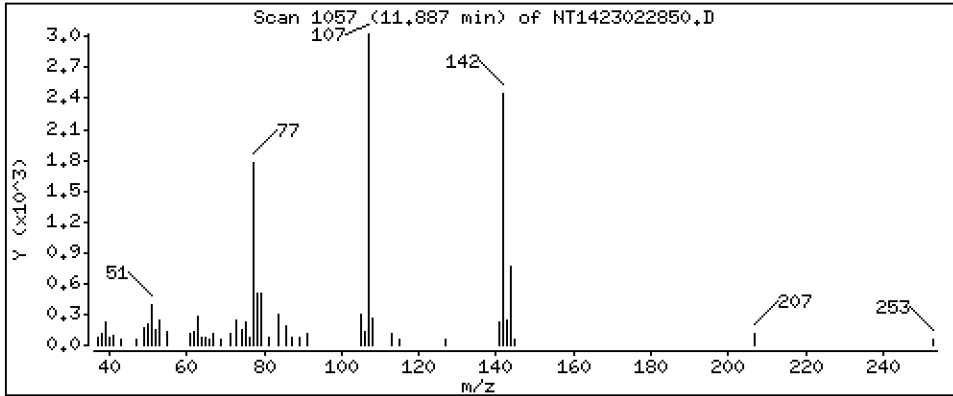
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,3431 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

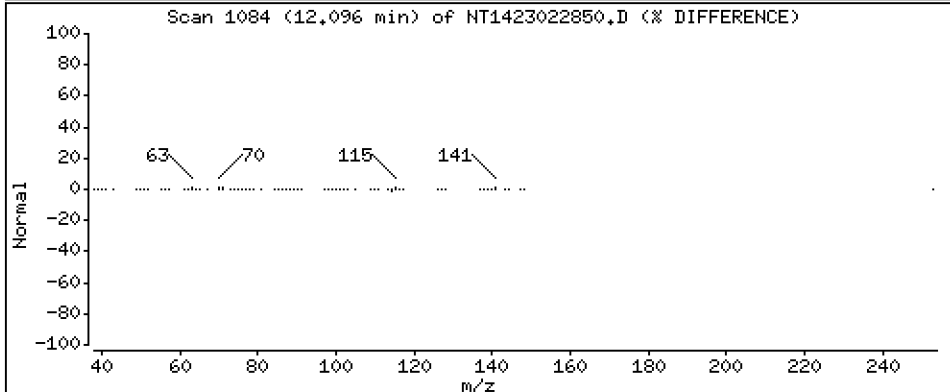
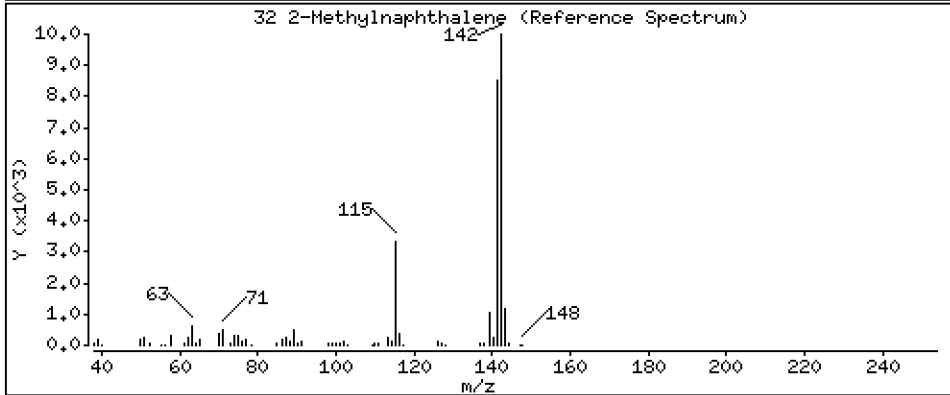
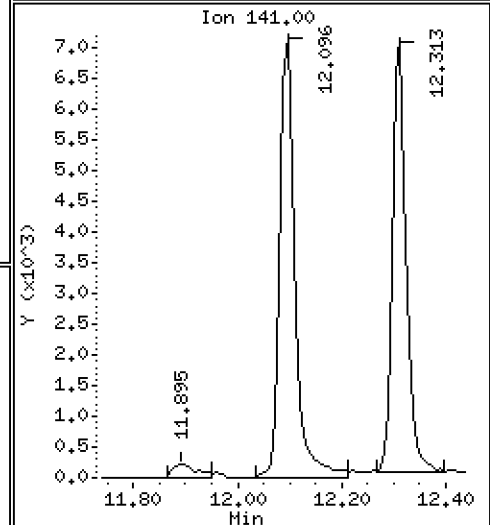
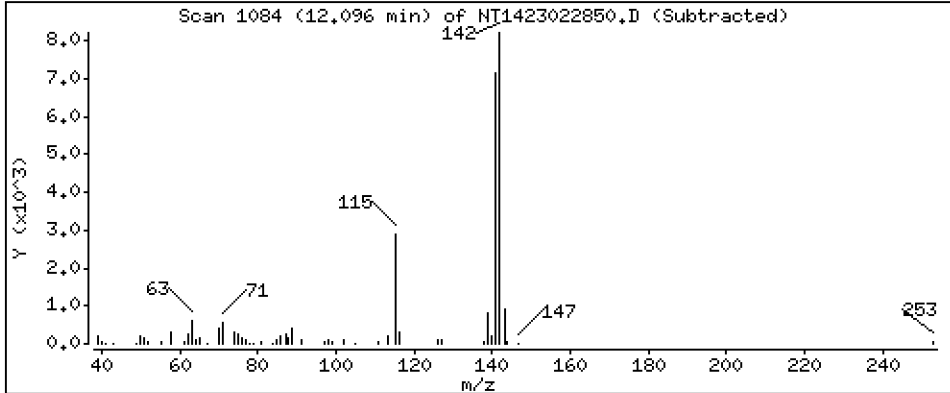
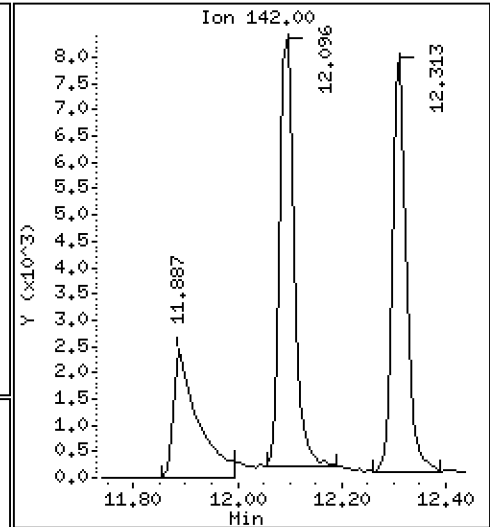
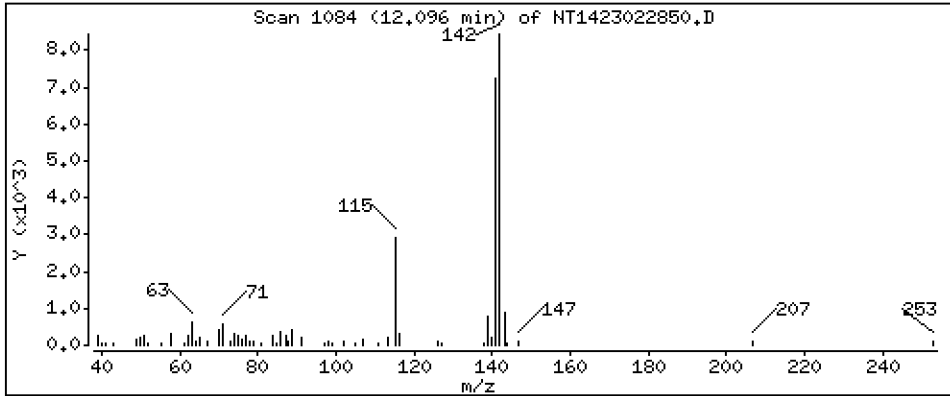
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1846 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

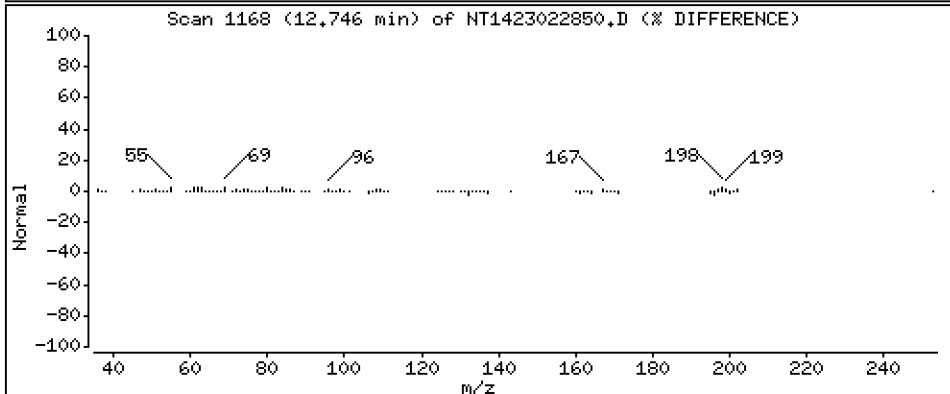
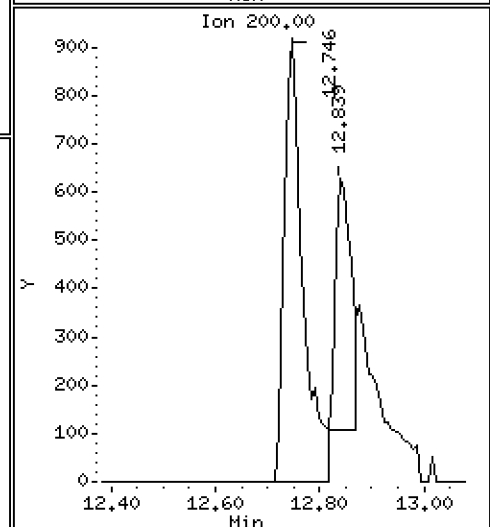
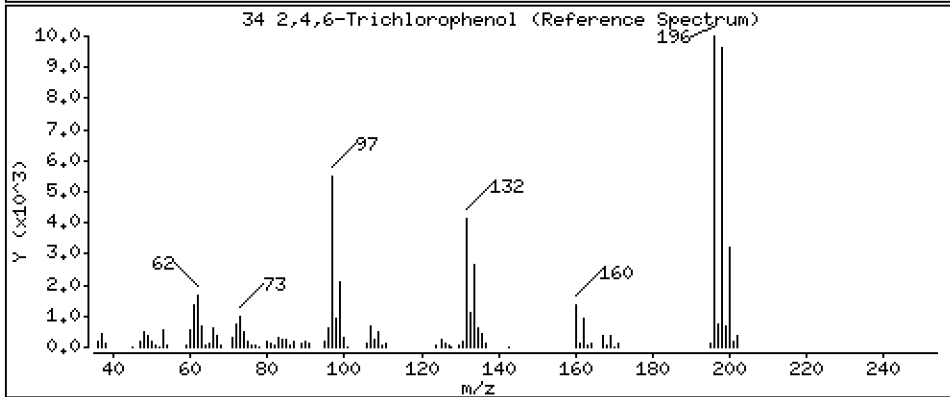
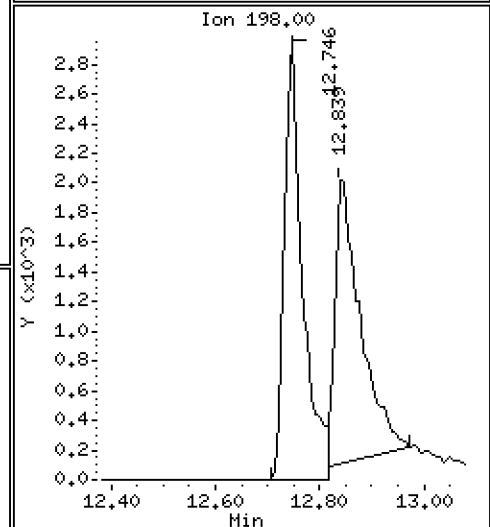
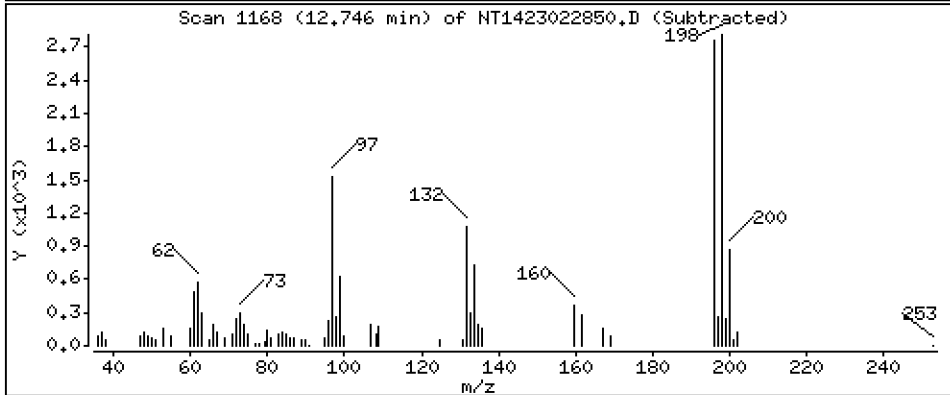
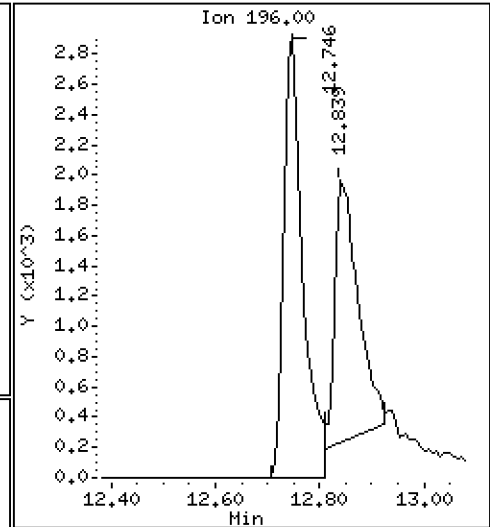
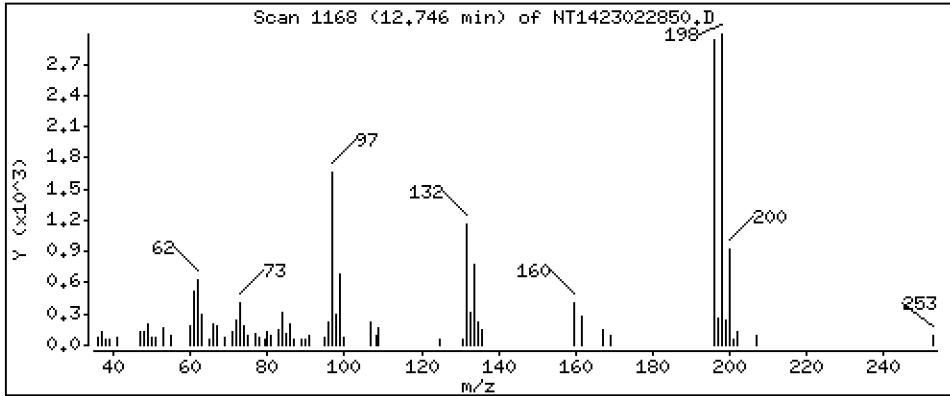
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

34 2,4,6-Trichlorophenol

Concentration: 0.3241 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

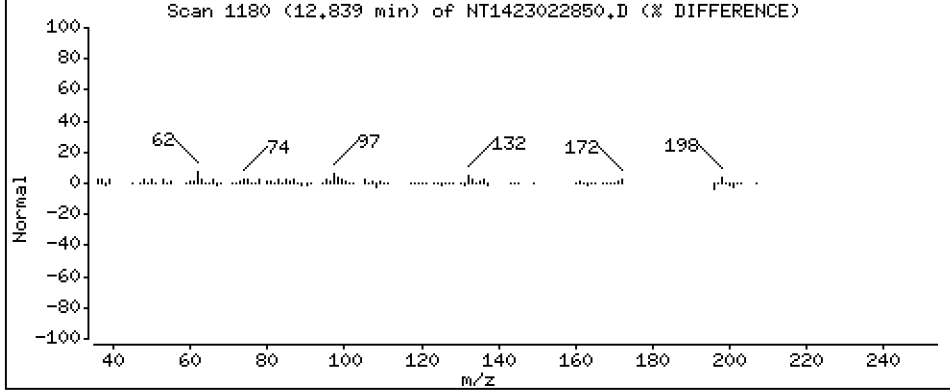
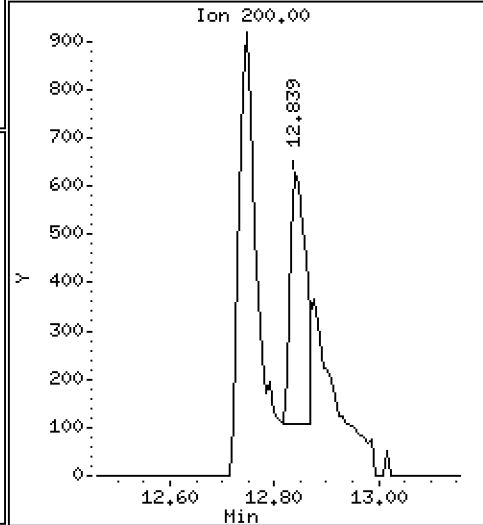
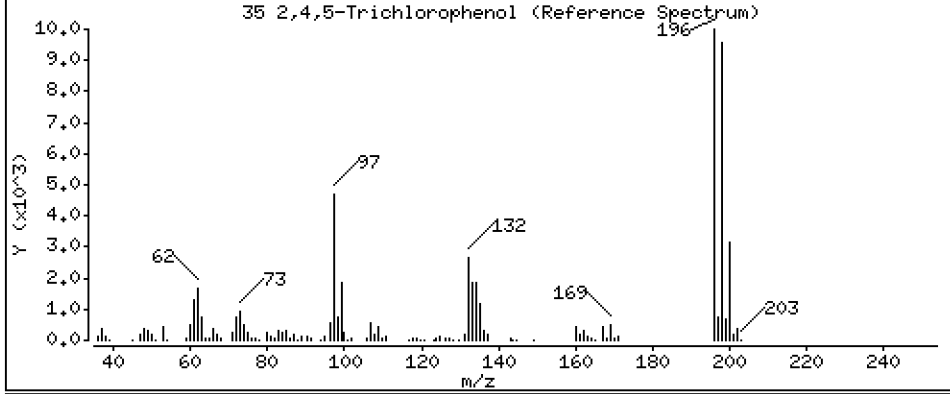
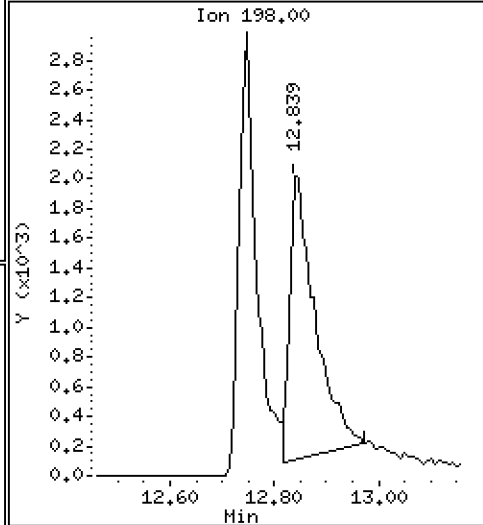
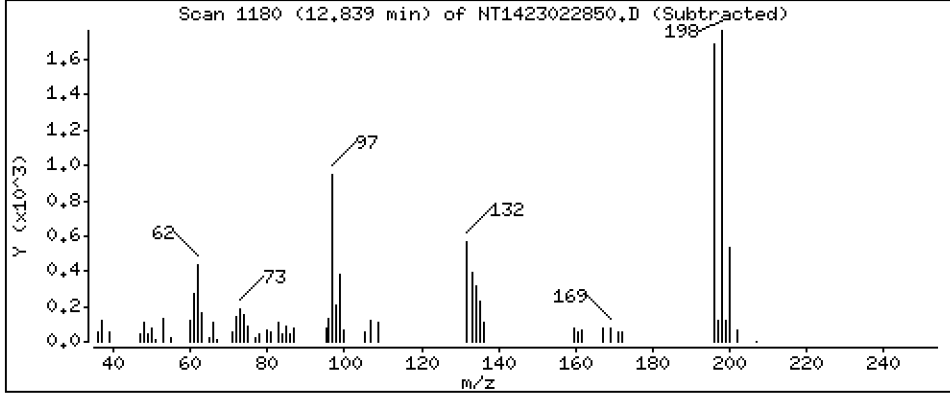
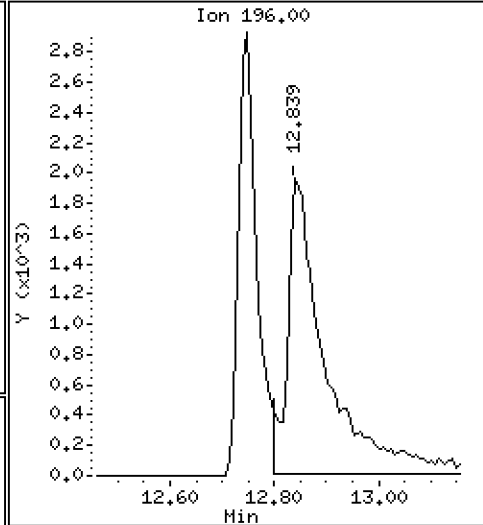
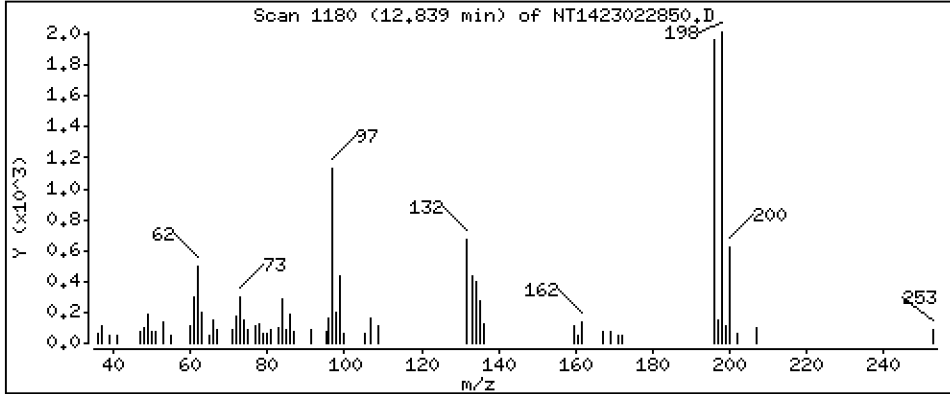
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

35 2,4,5-Trichlorophenol

Concentration: 0.4190 ug/mL





Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

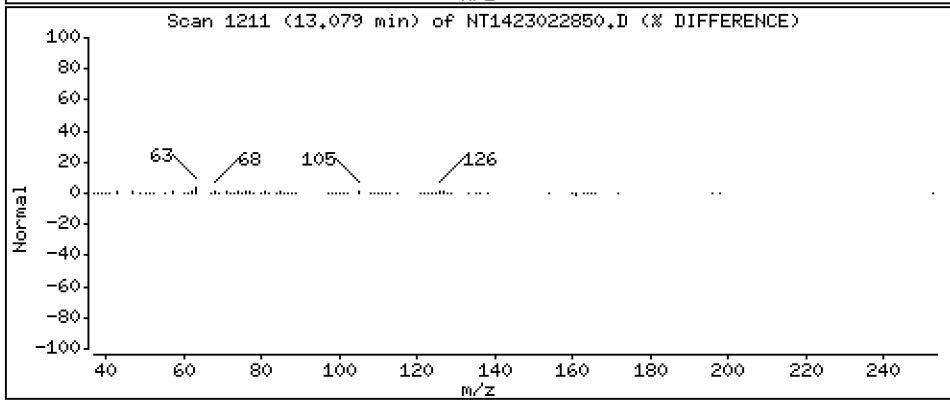
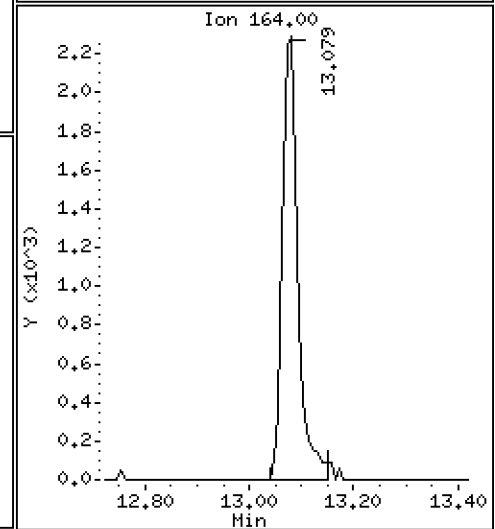
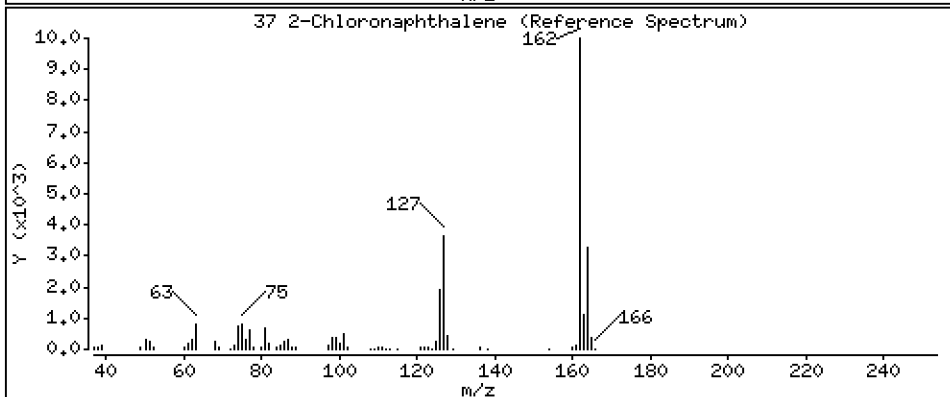
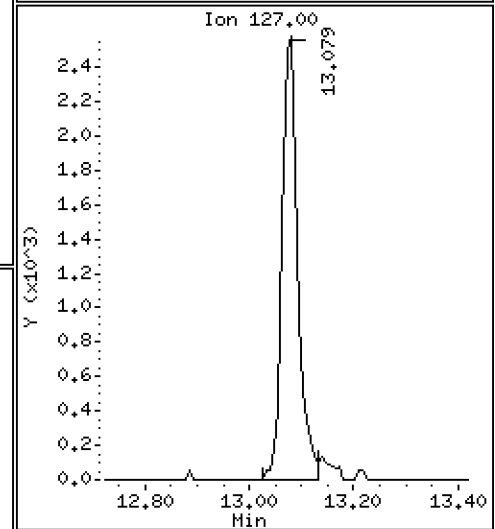
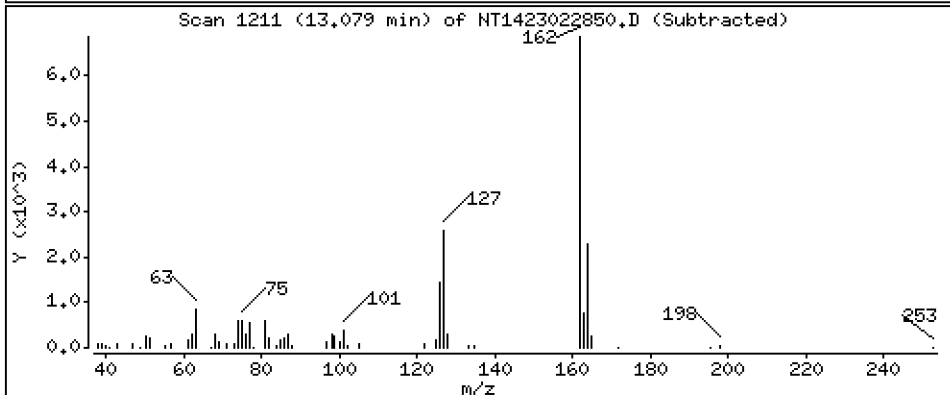
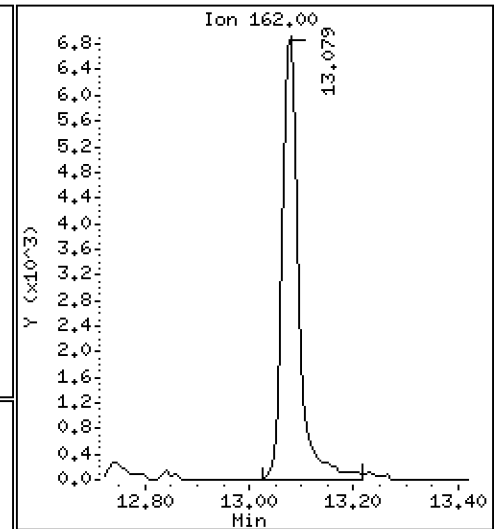
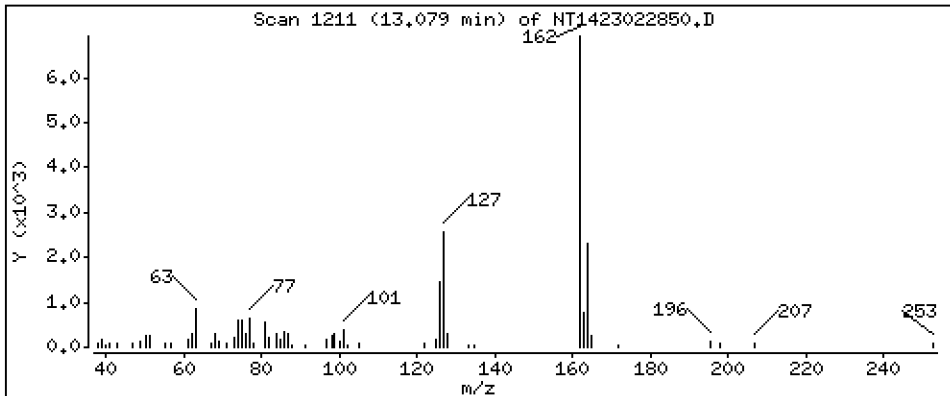
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,2084 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

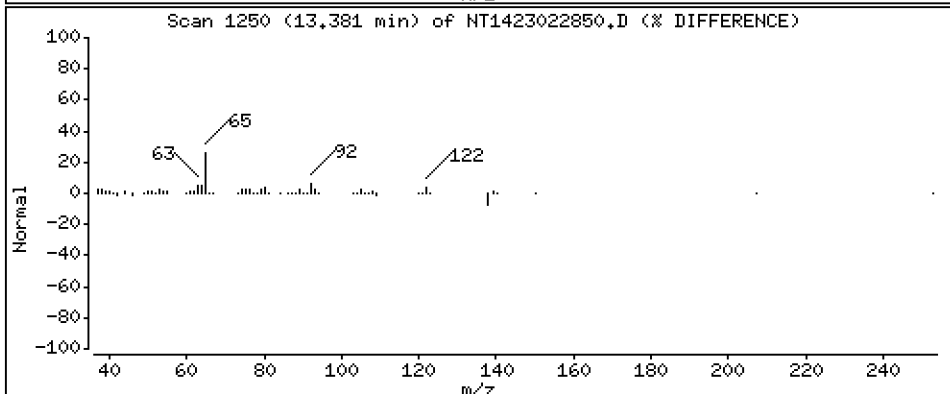
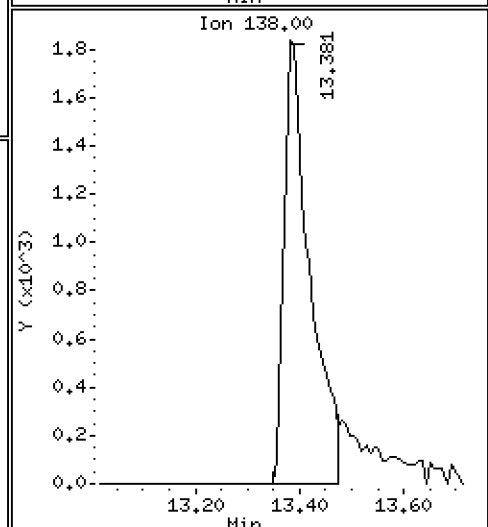
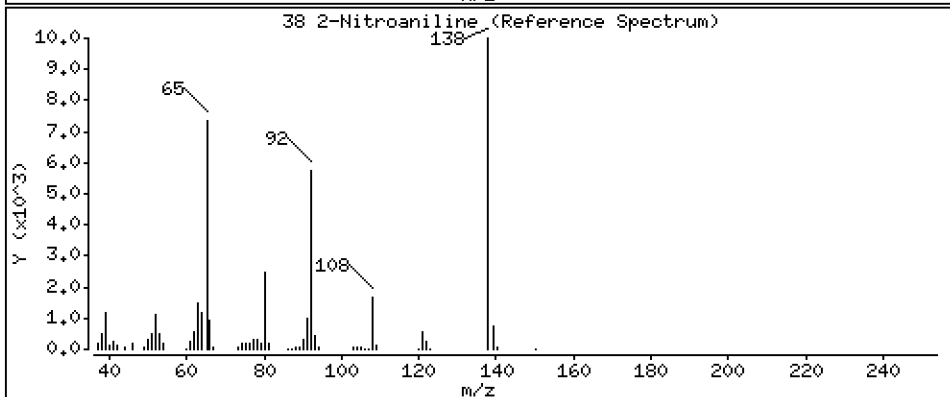
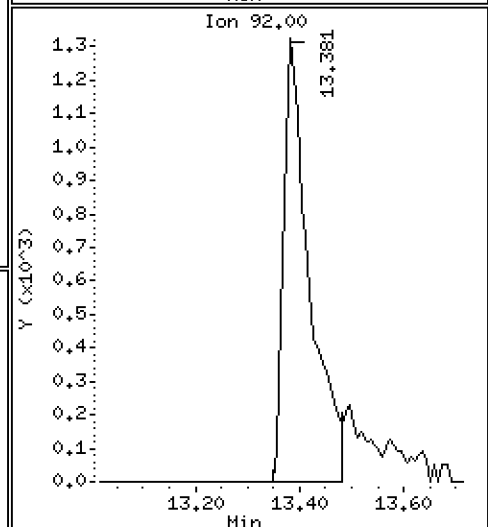
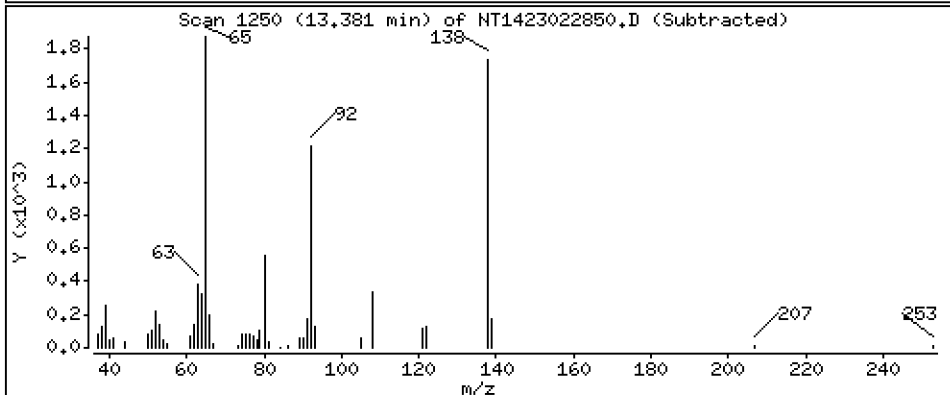
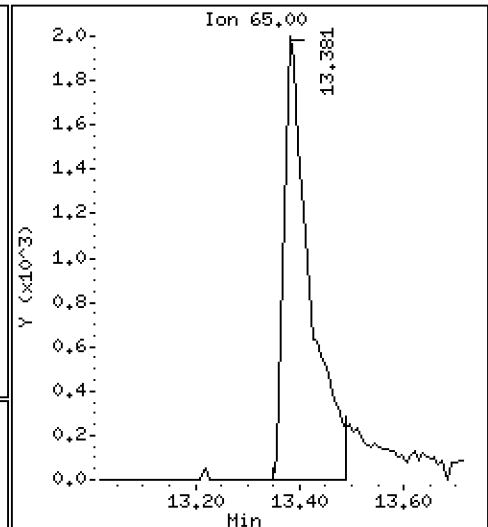
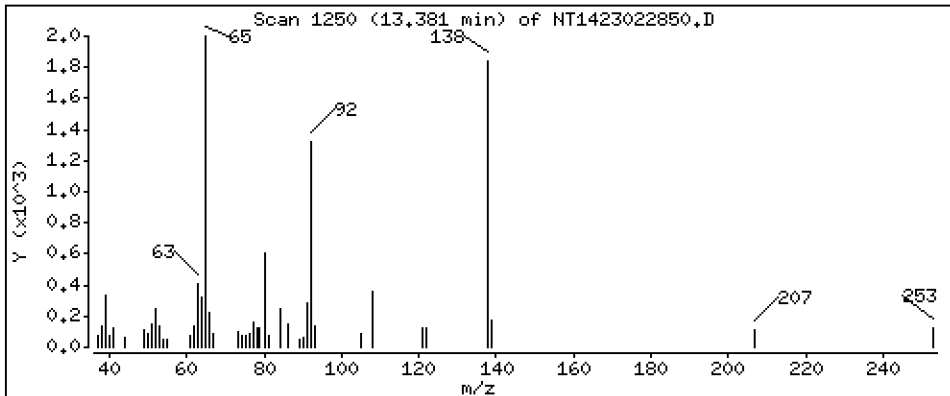
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,3674 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

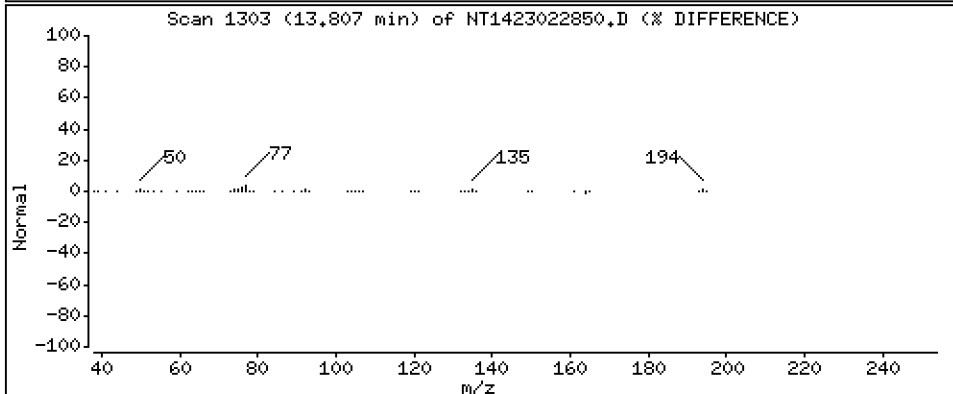
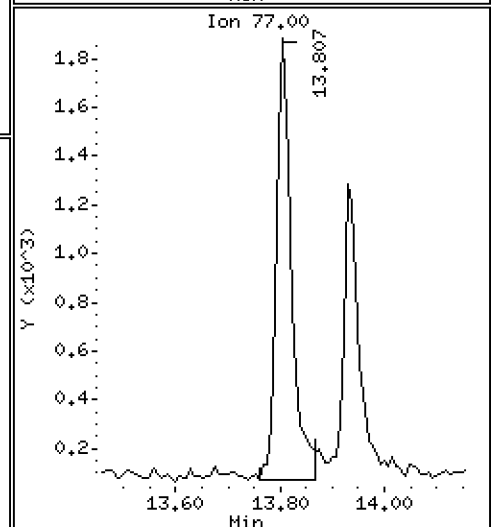
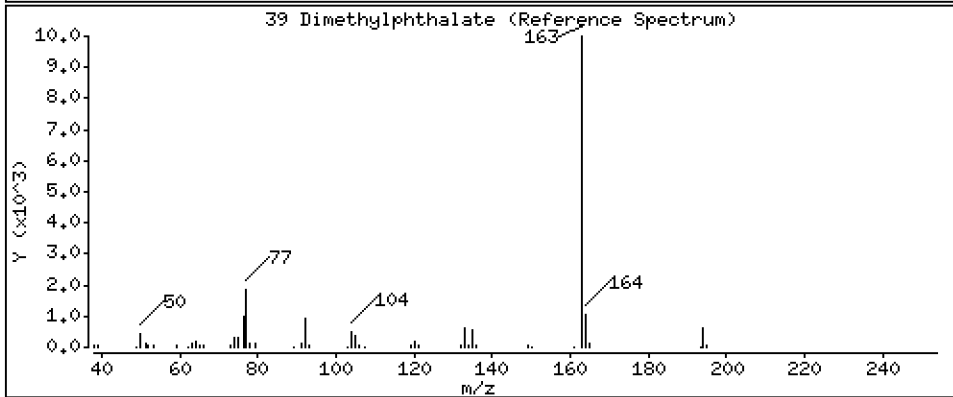
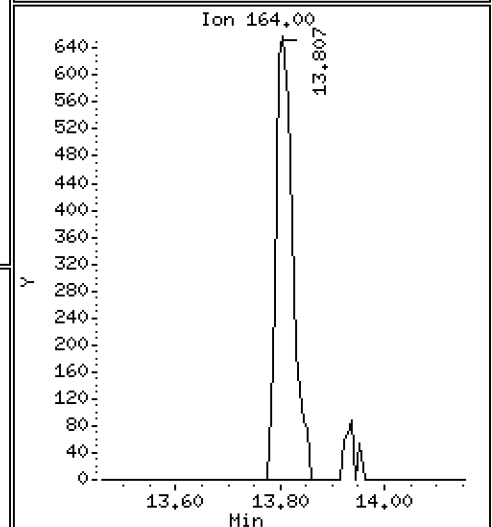
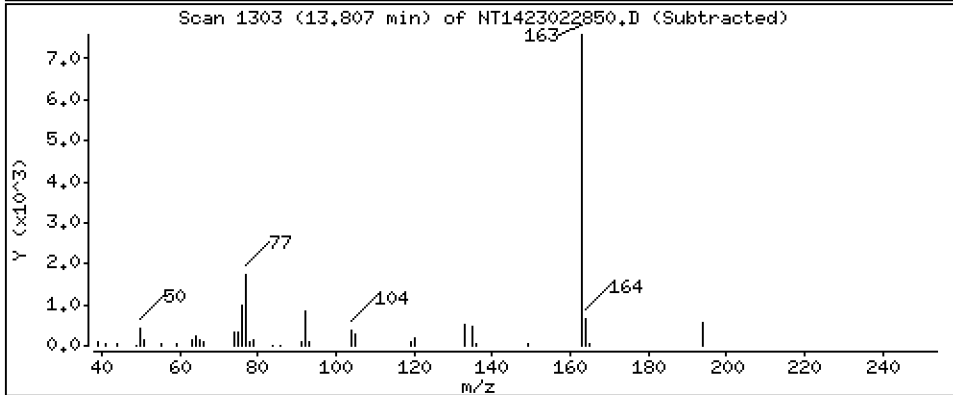
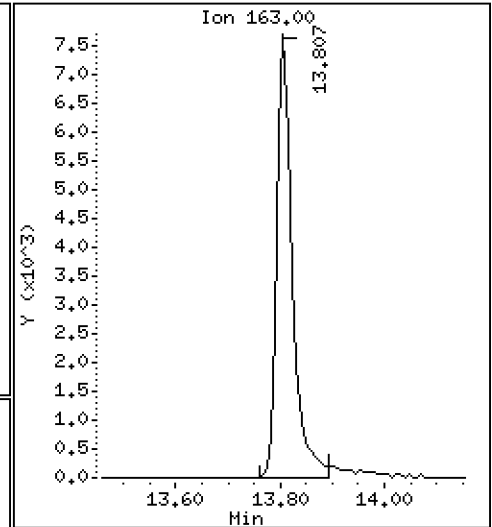
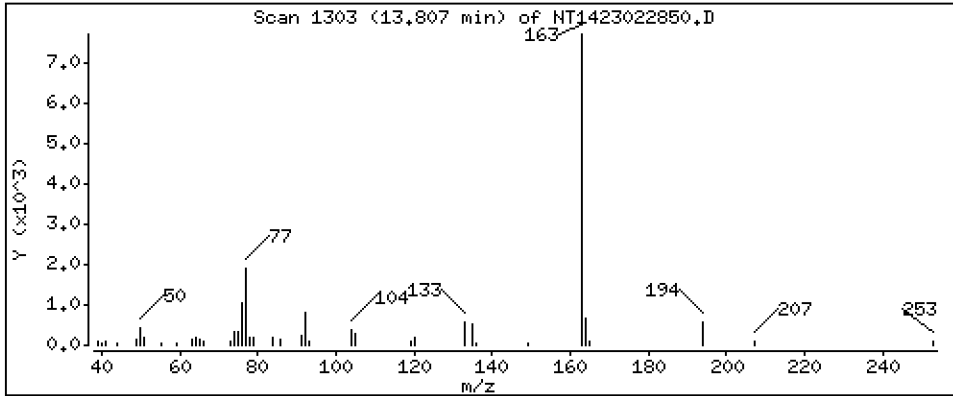
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2096 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

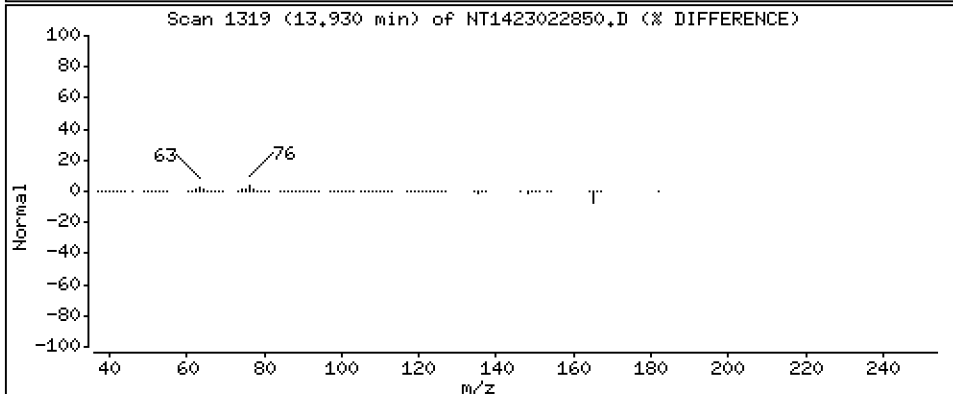
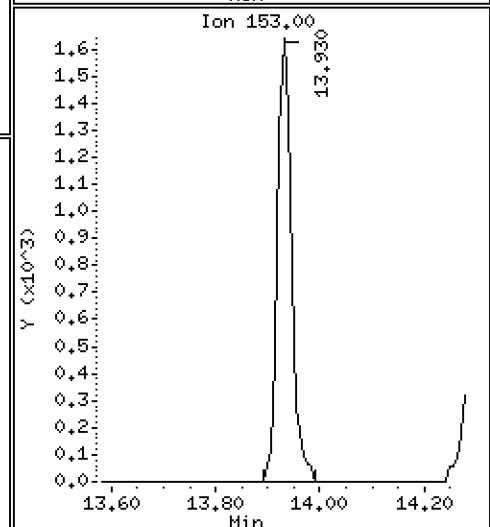
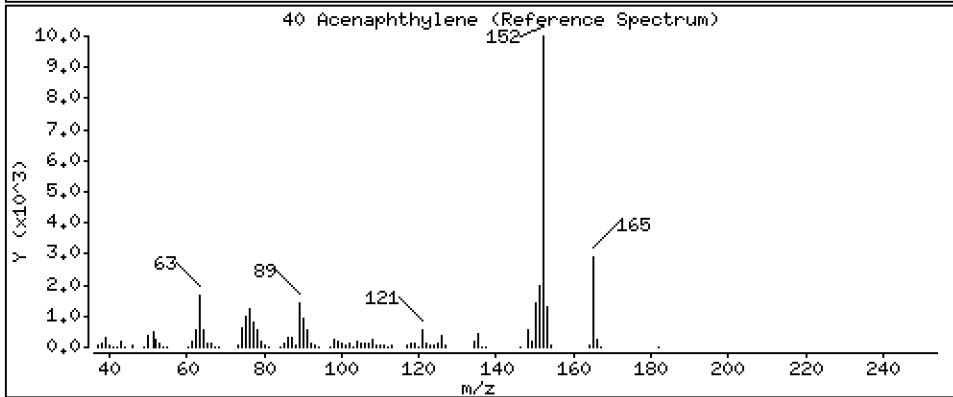
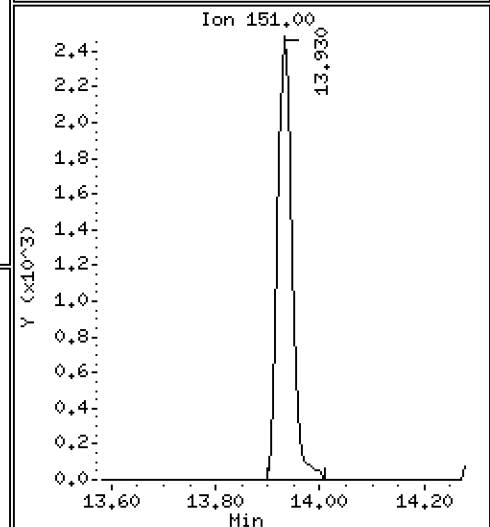
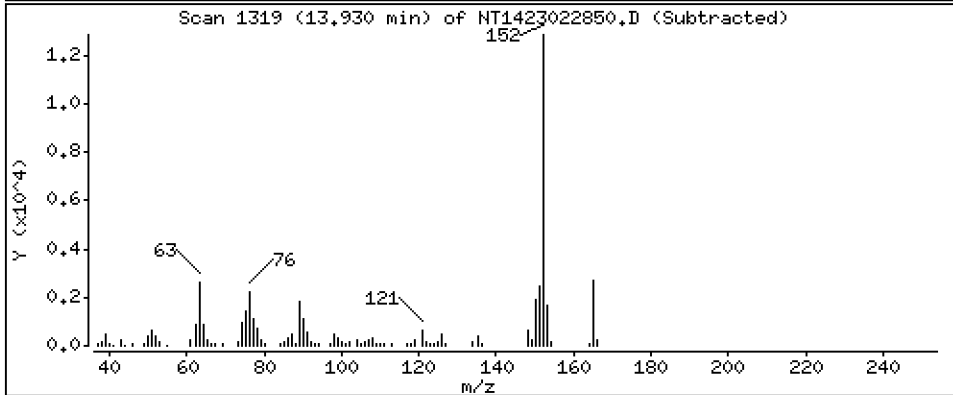
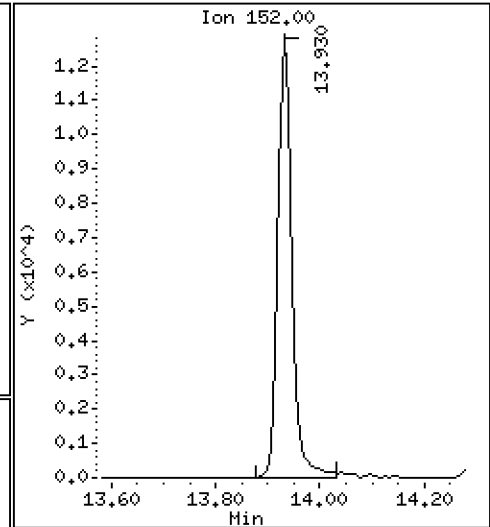
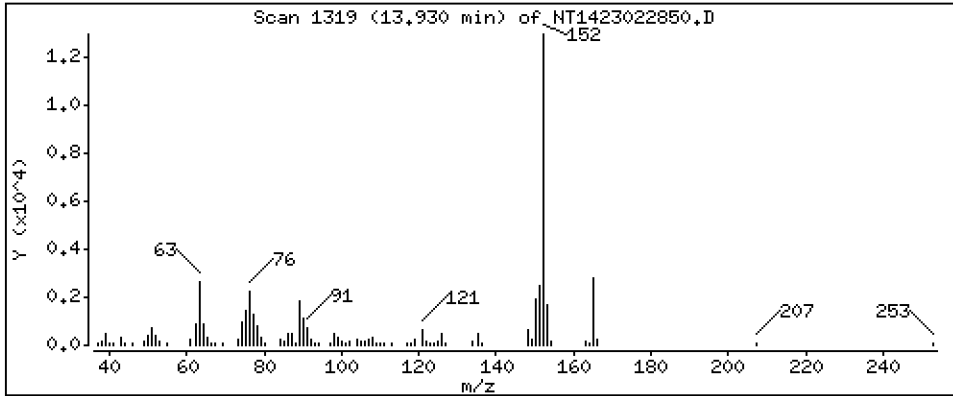
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2184 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

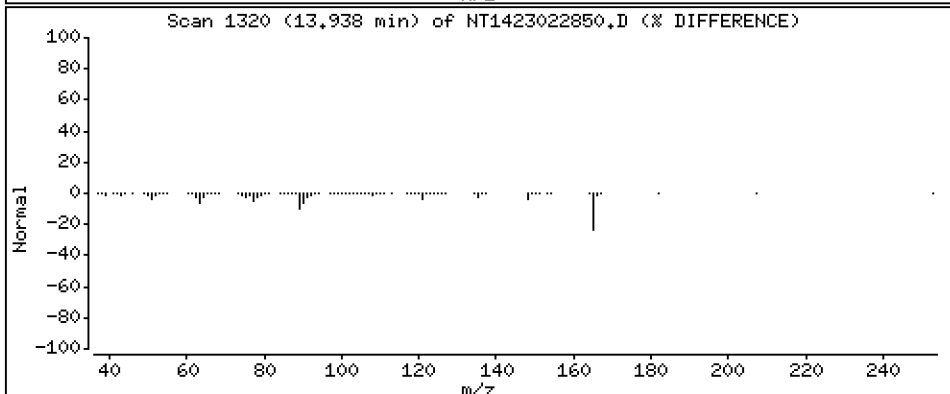
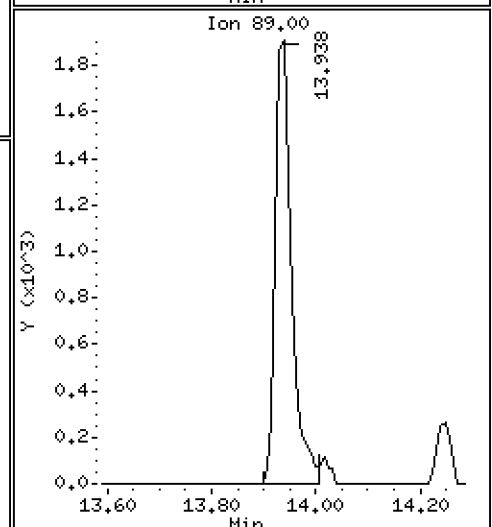
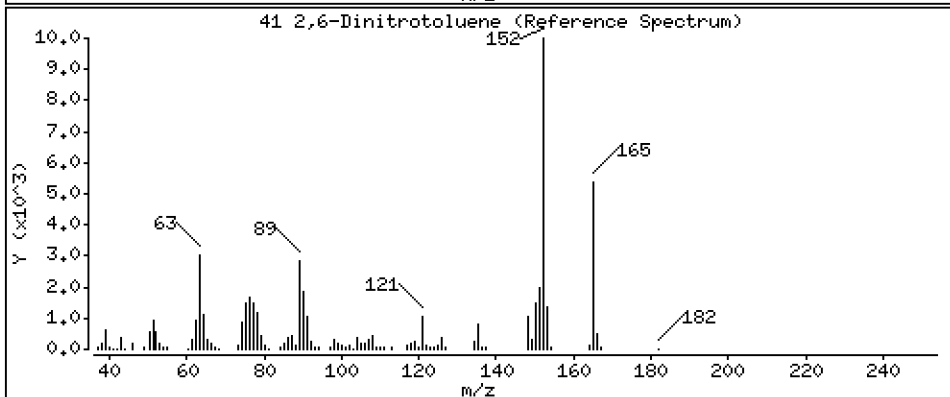
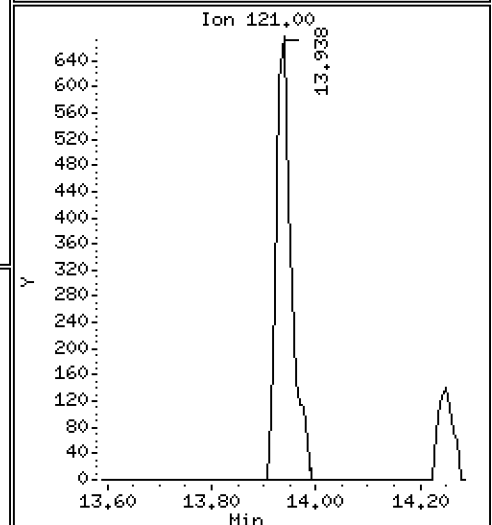
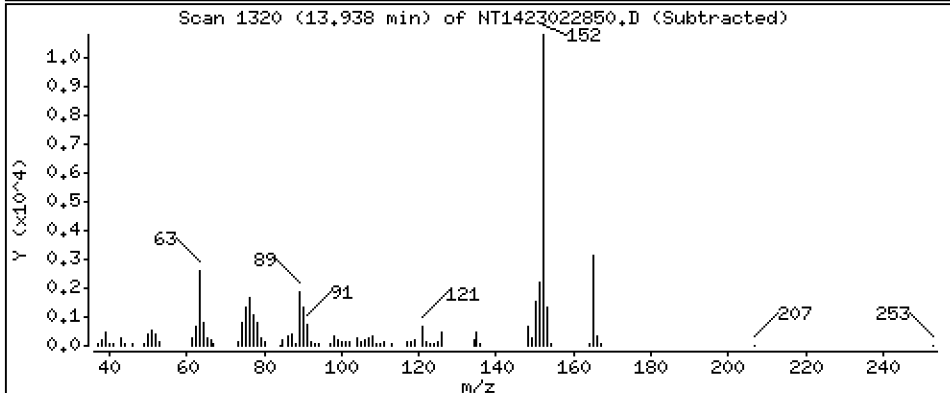
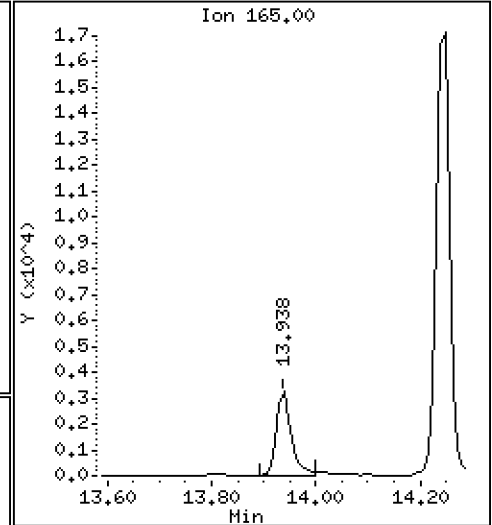
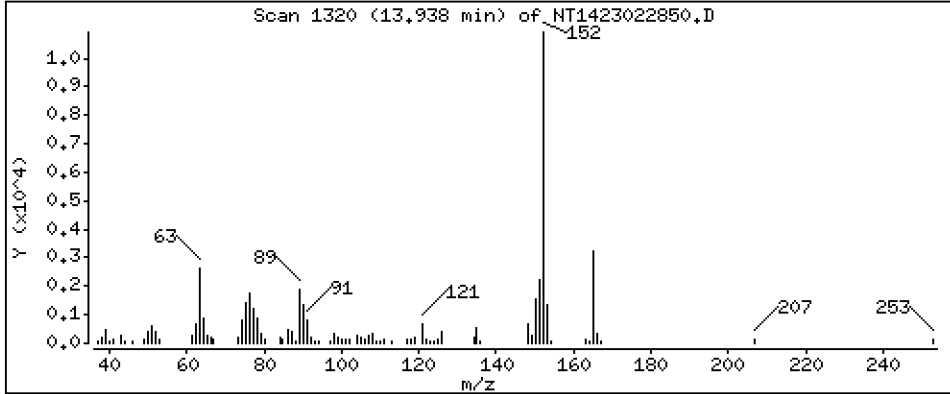
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 0,3645 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

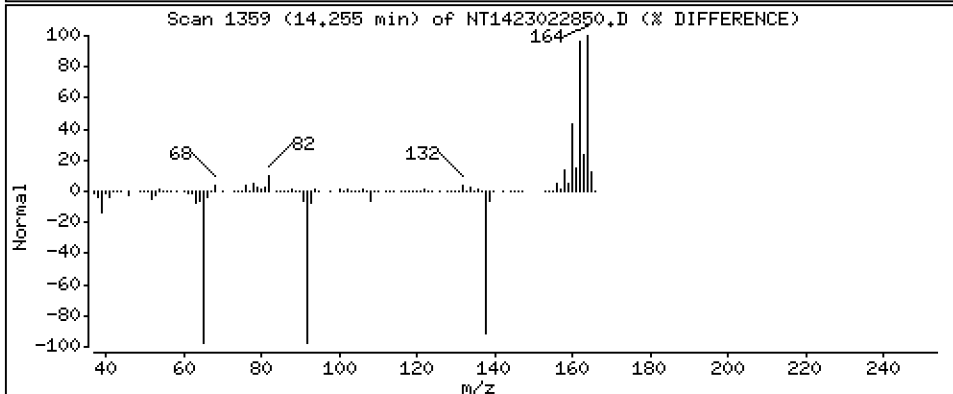
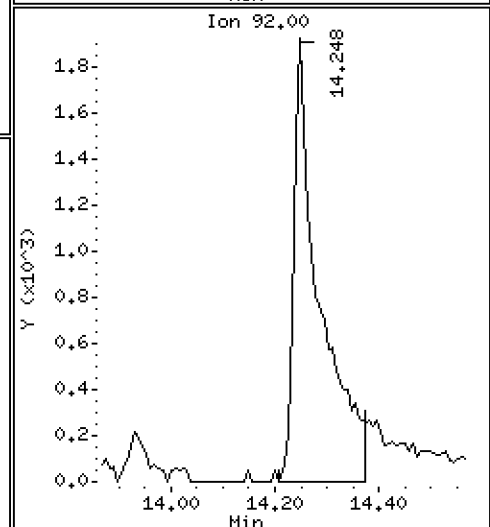
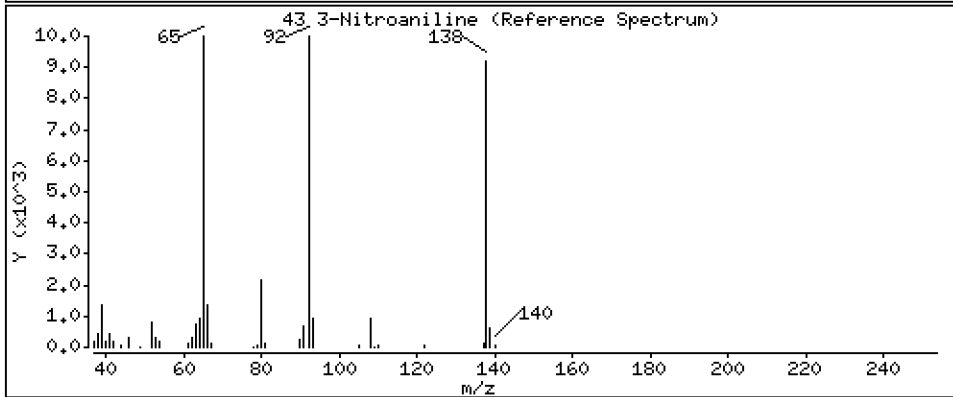
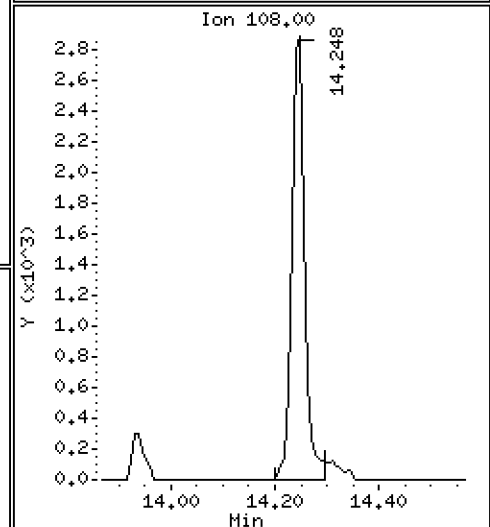
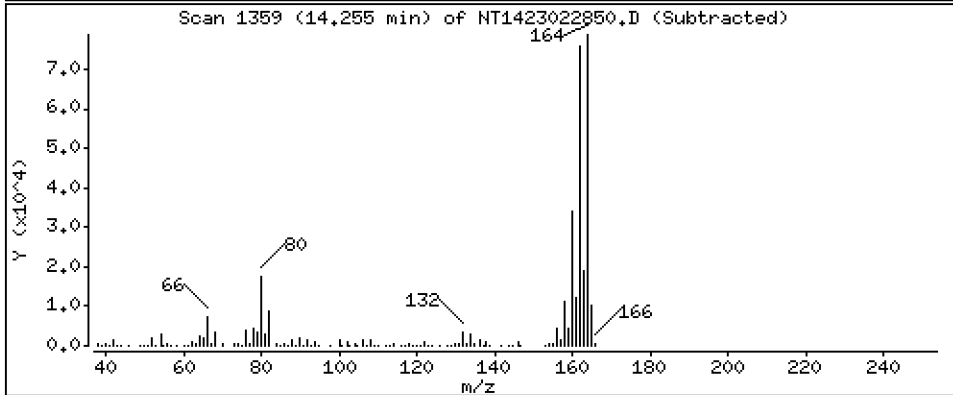
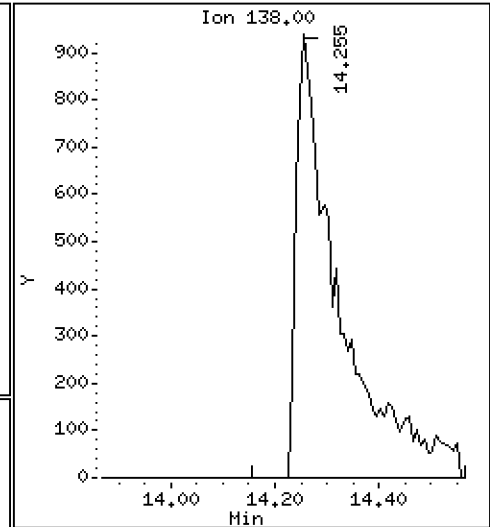
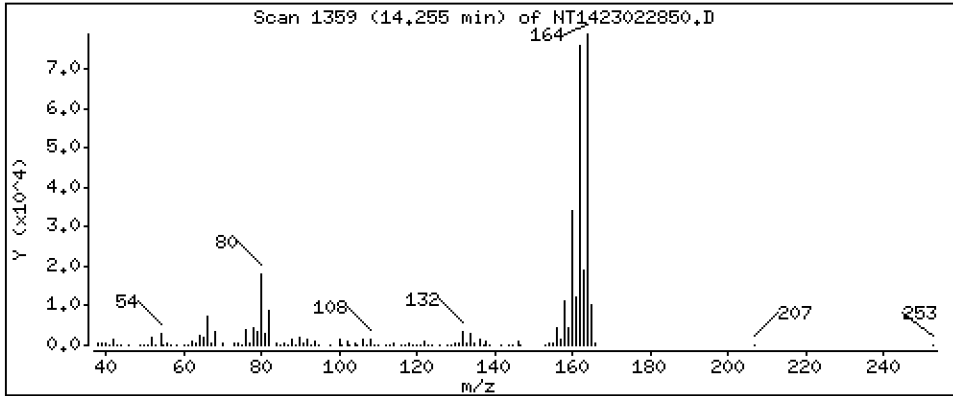
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,3086 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

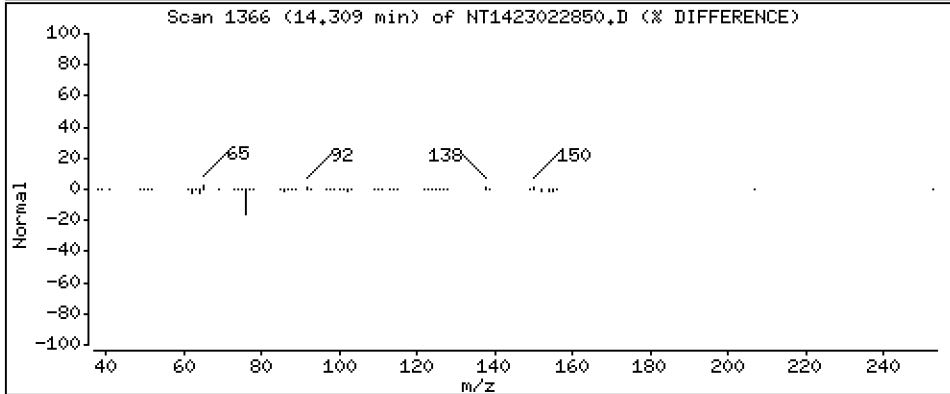
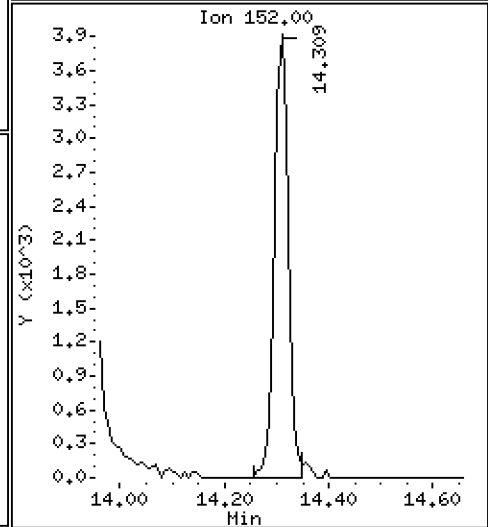
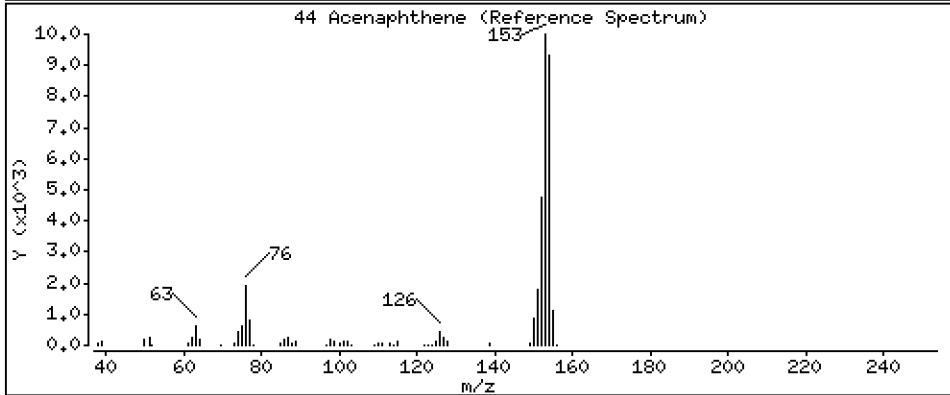
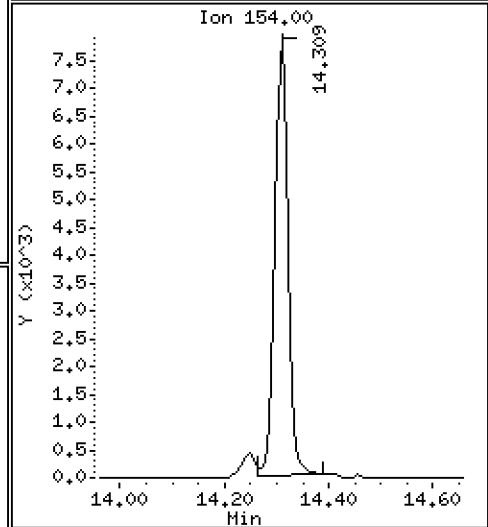
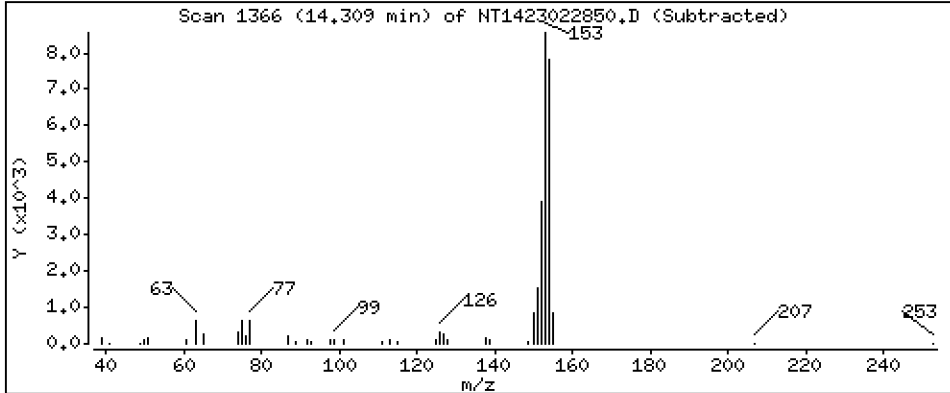
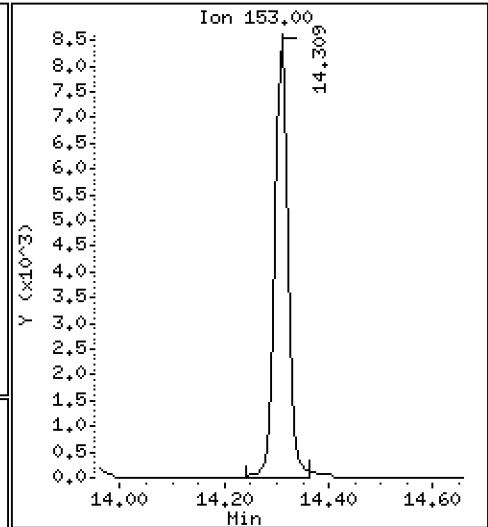
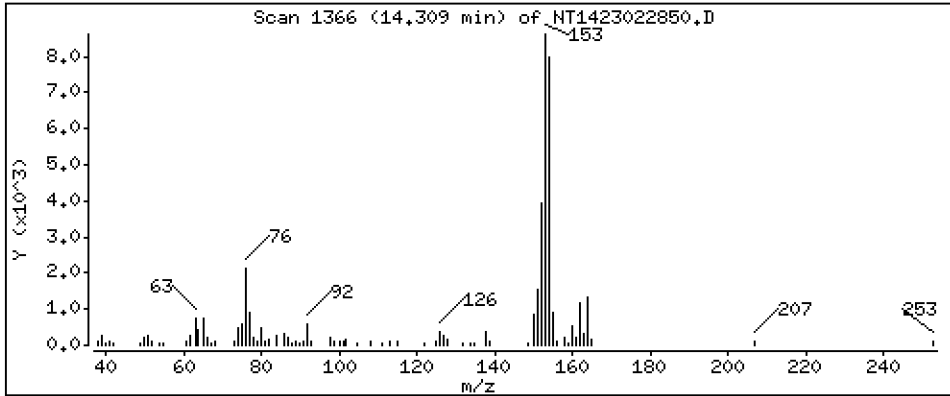
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,2105 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

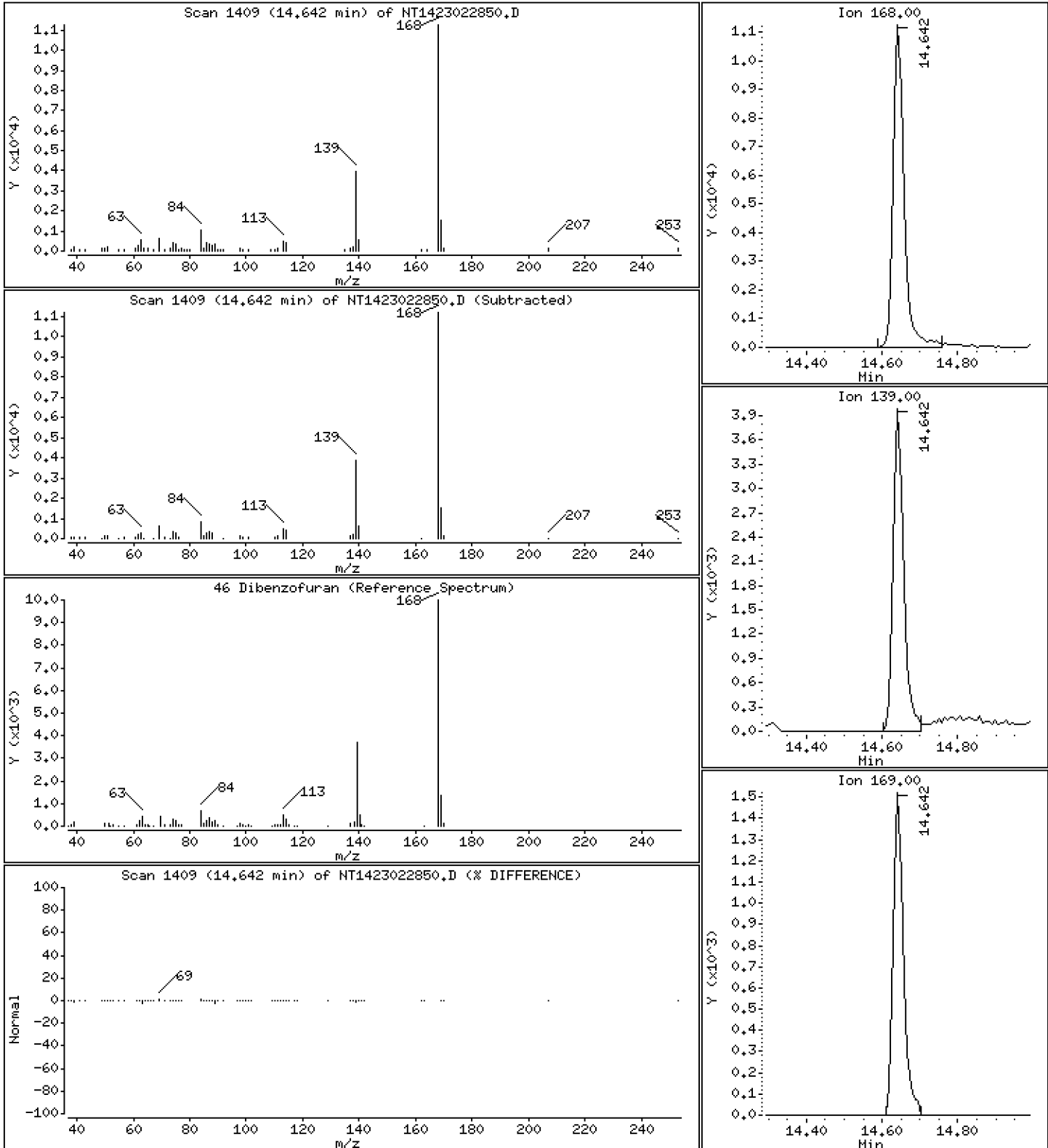
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,2001 ug/mL





Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

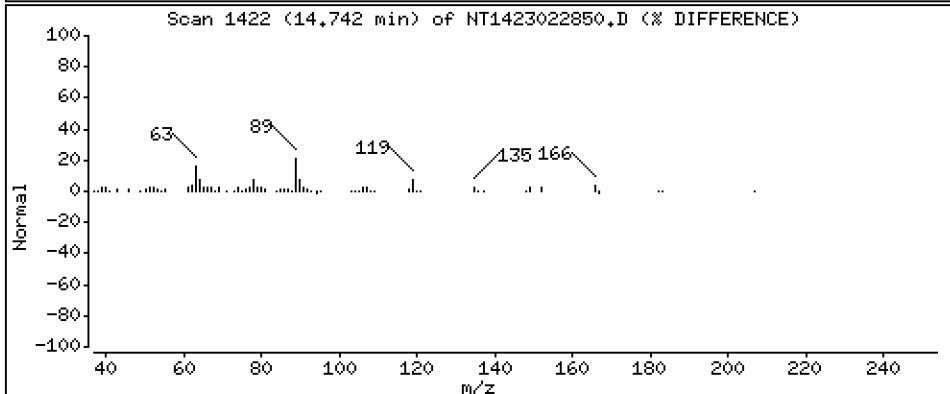
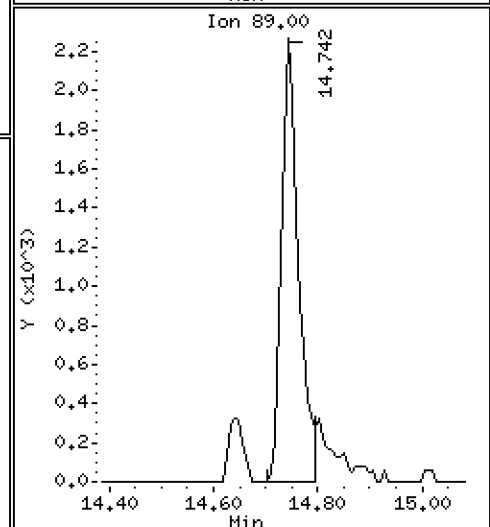
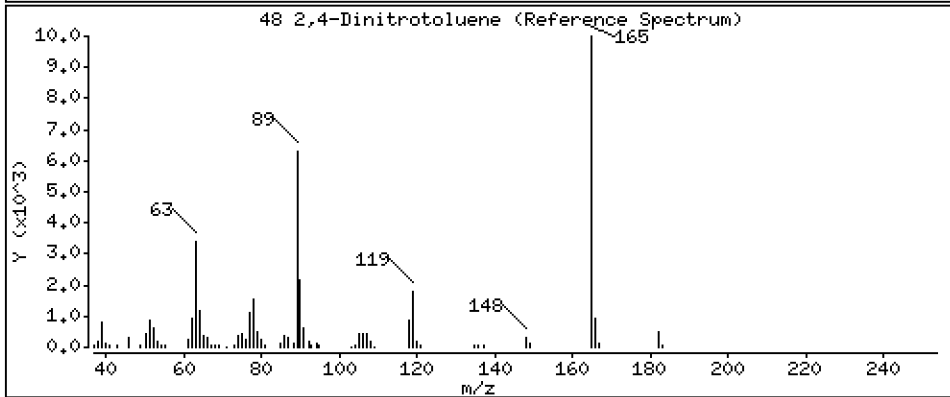
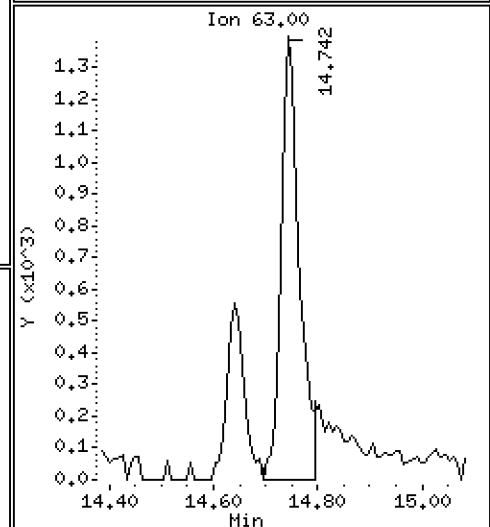
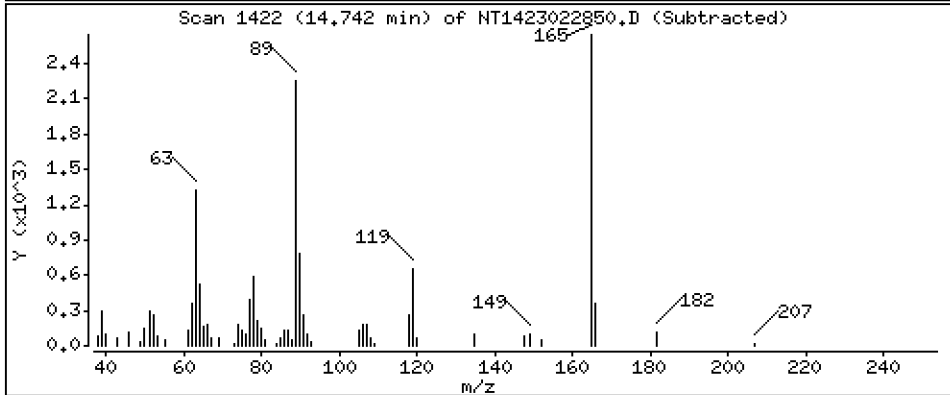
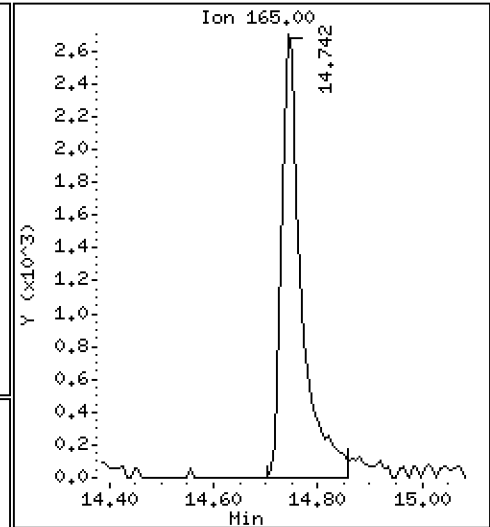
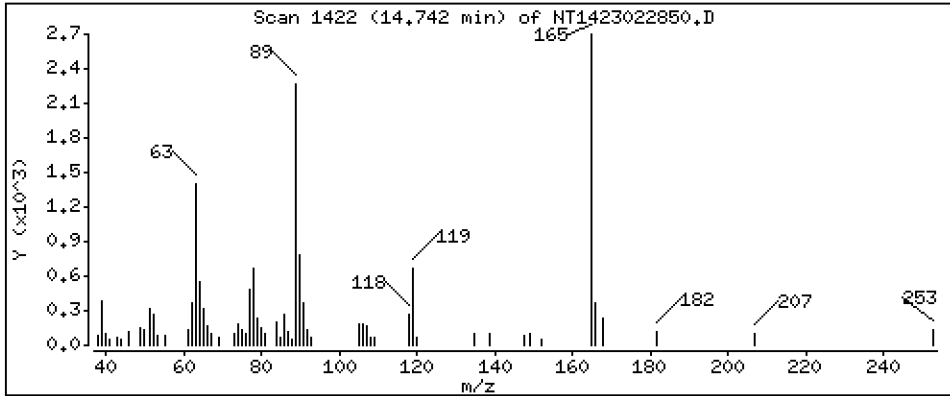
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.2942 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

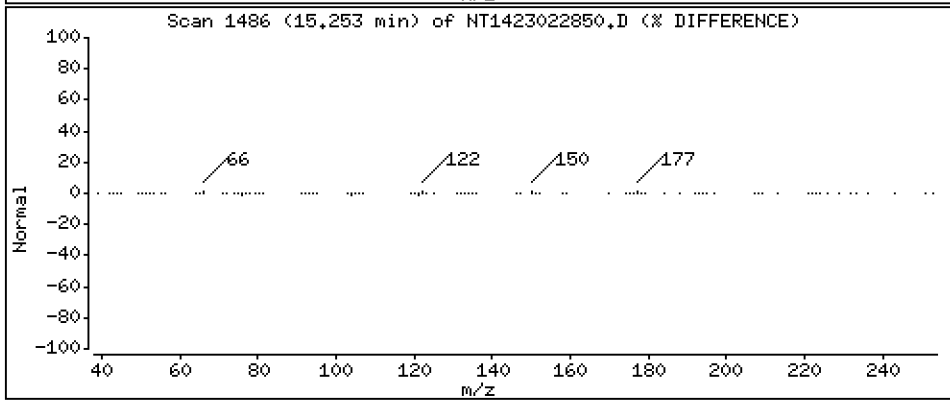
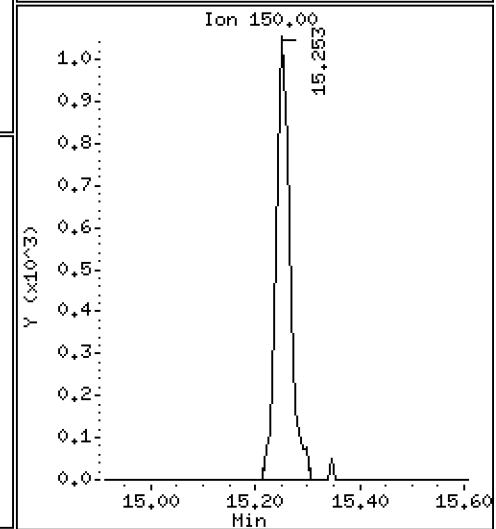
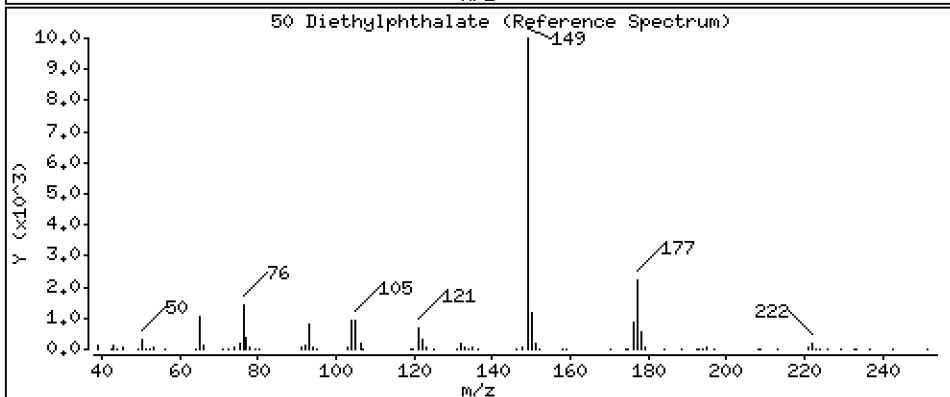
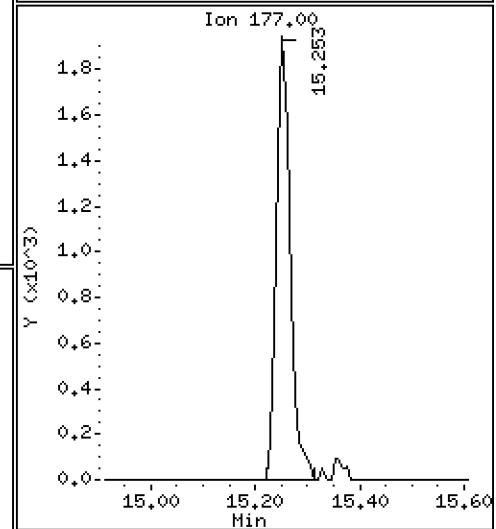
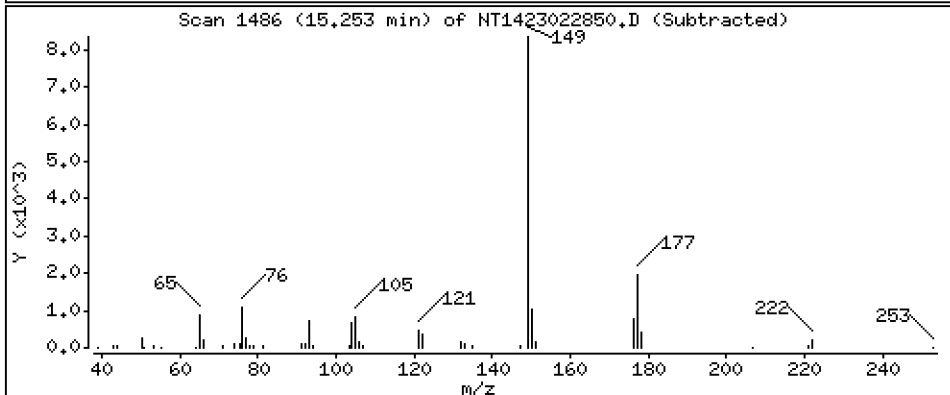
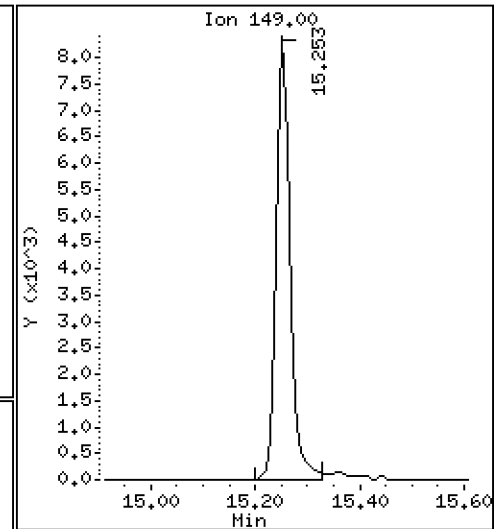
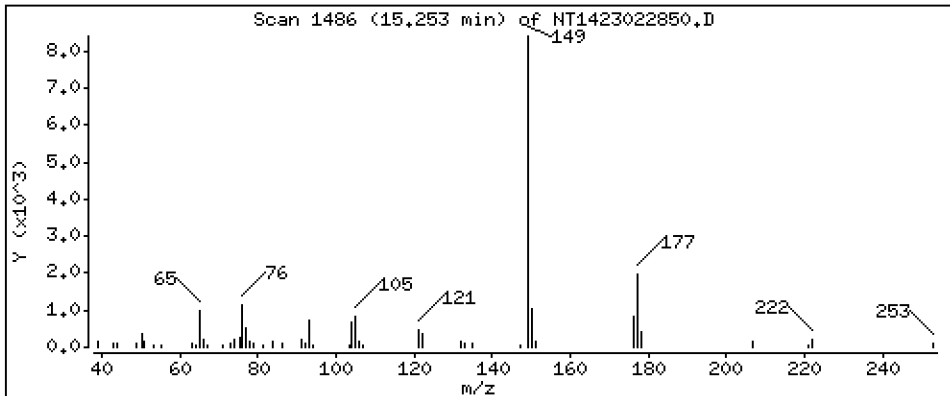
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2168 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

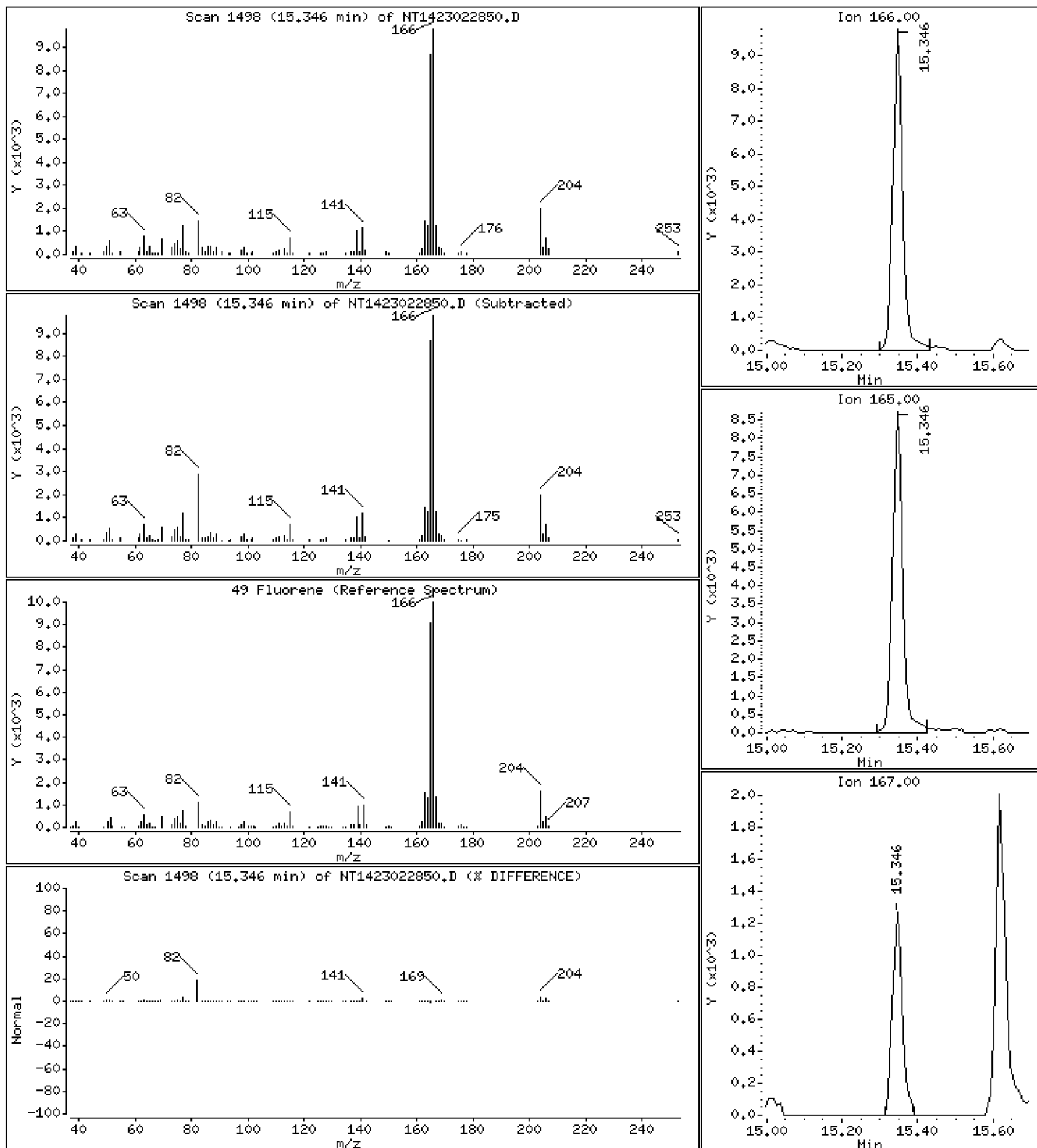
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,2121 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

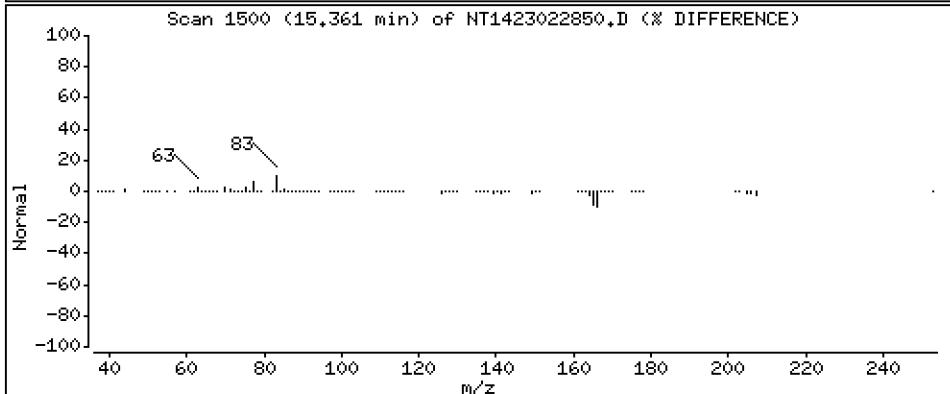
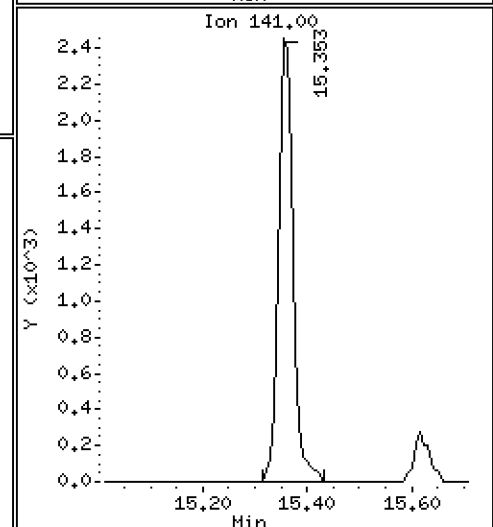
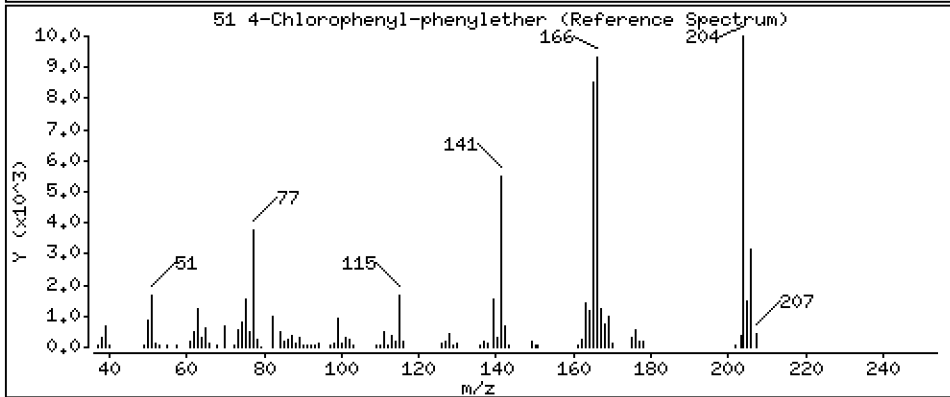
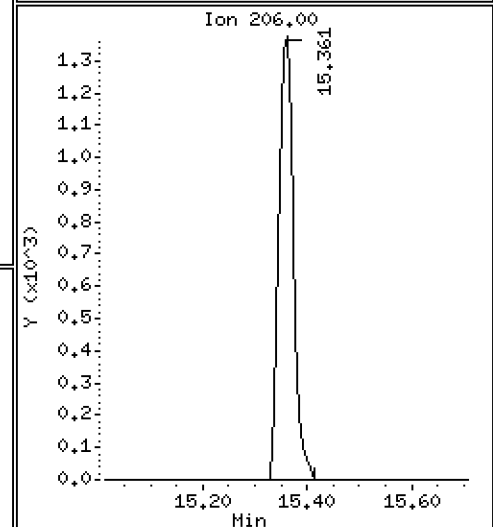
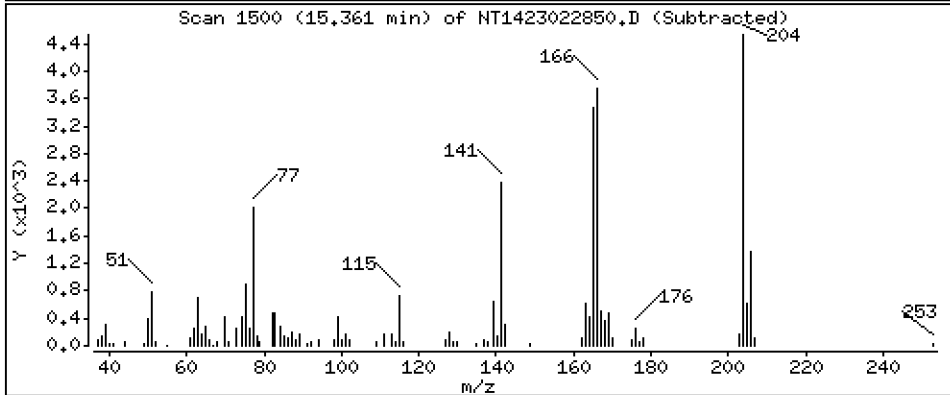
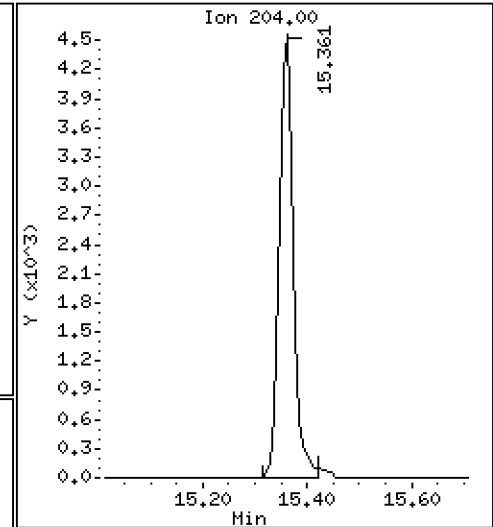
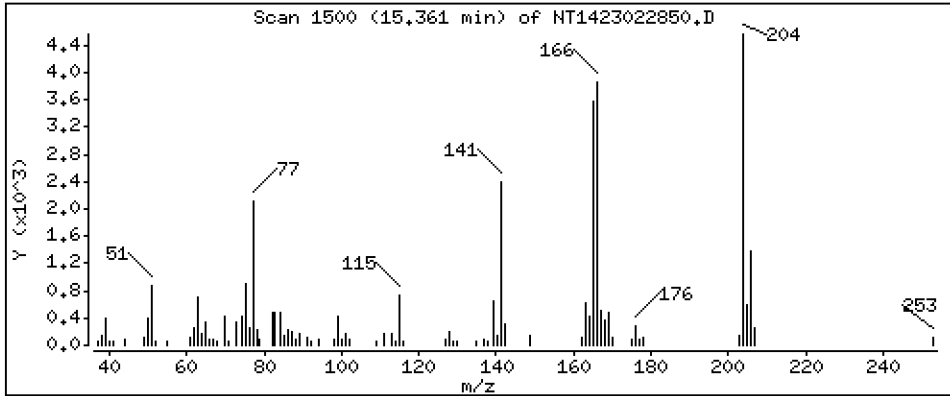
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,1961 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

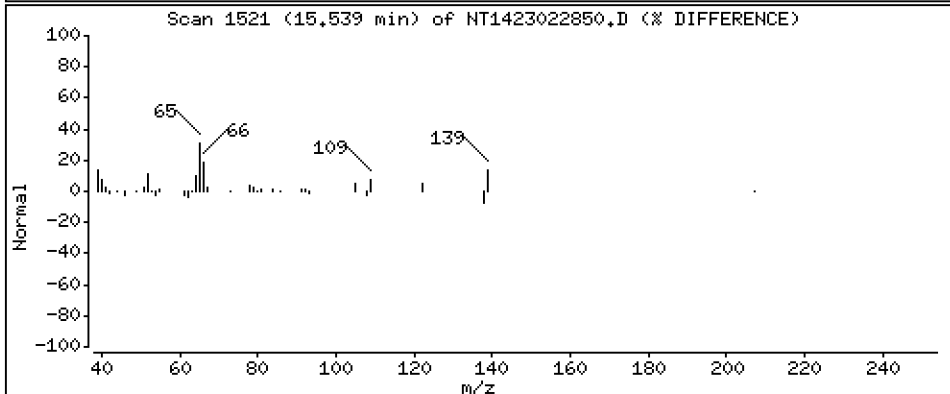
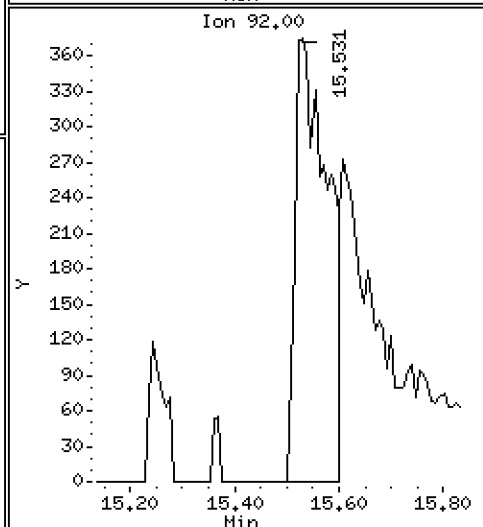
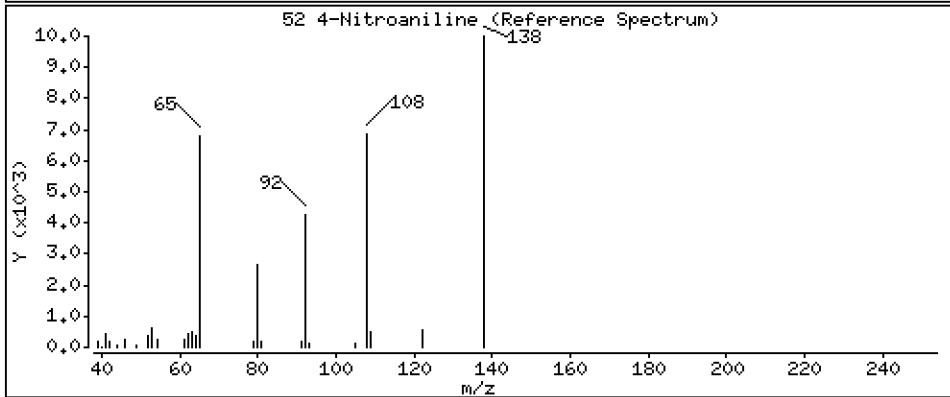
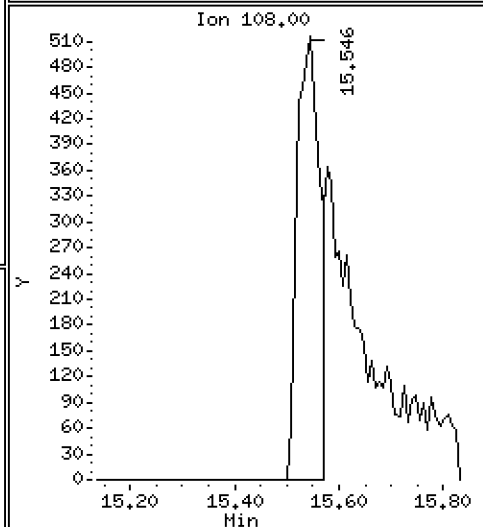
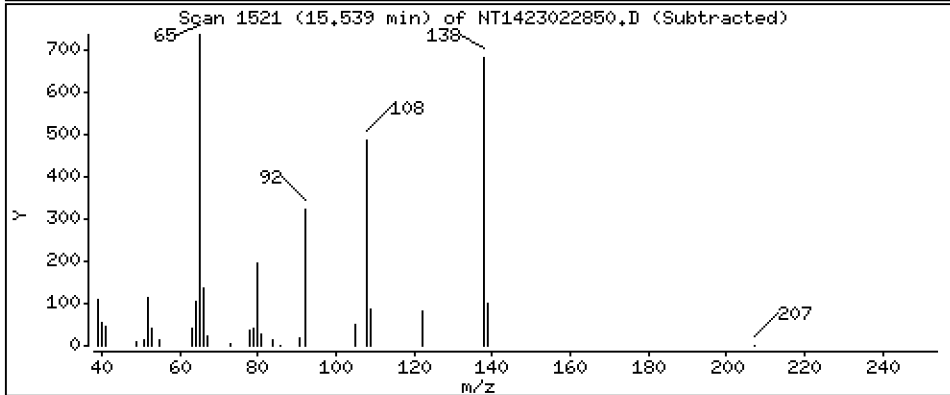
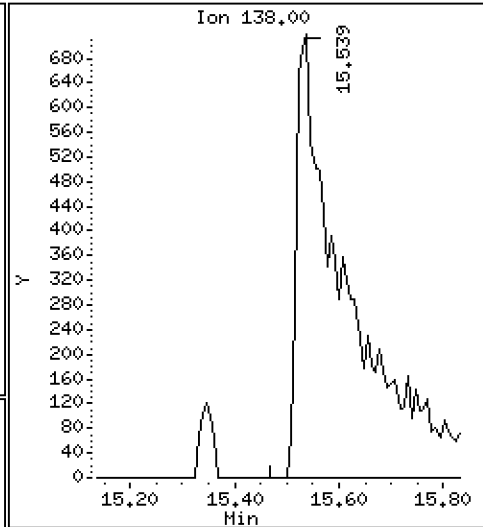
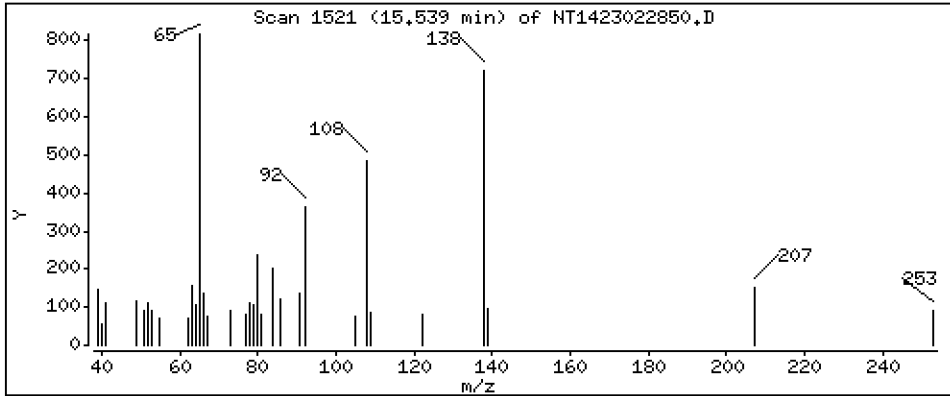
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,2914 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

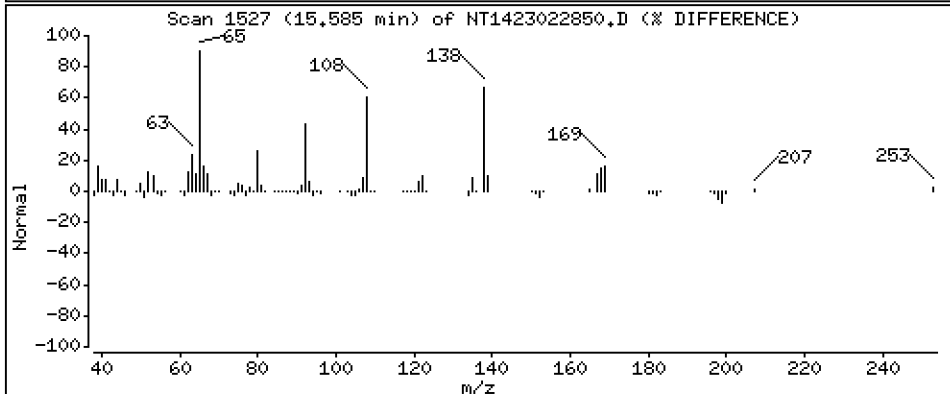
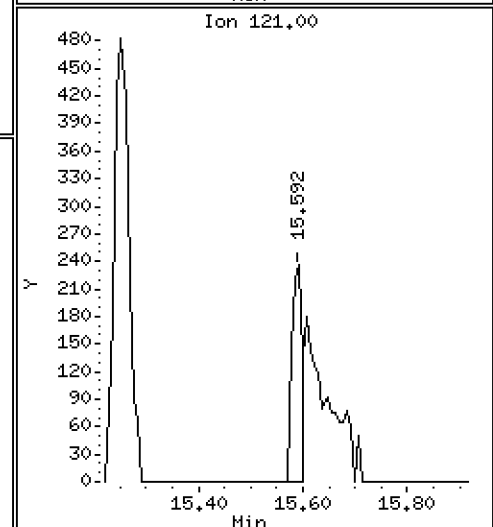
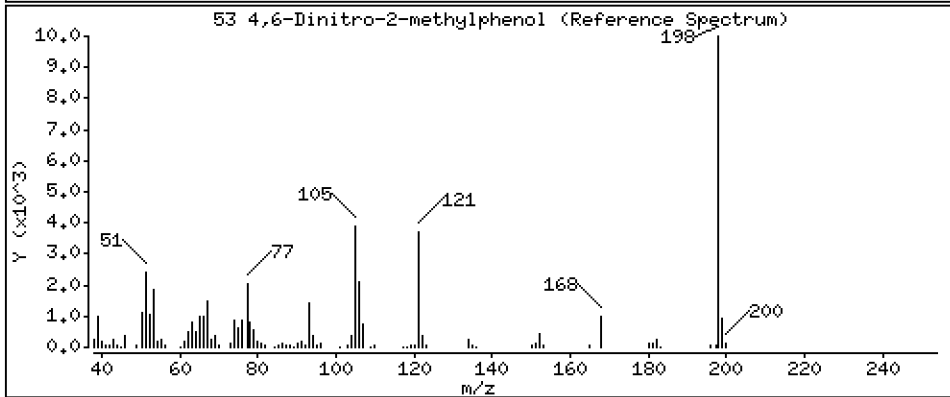
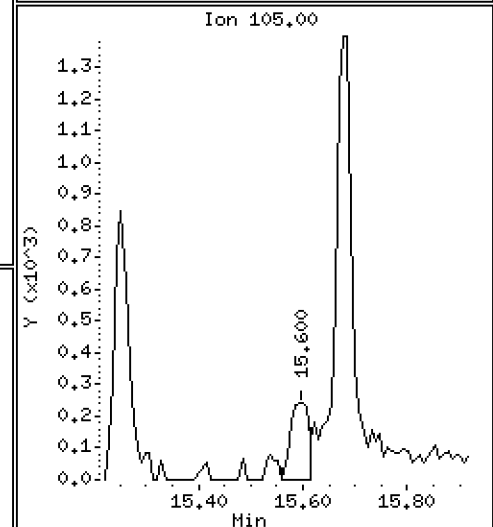
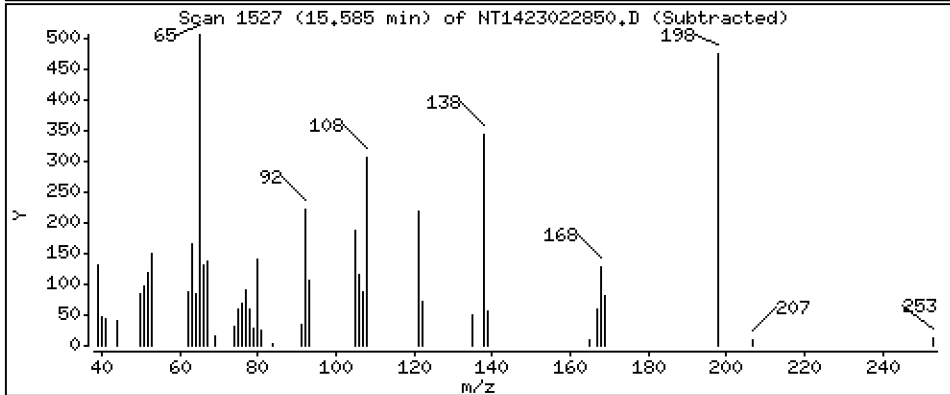
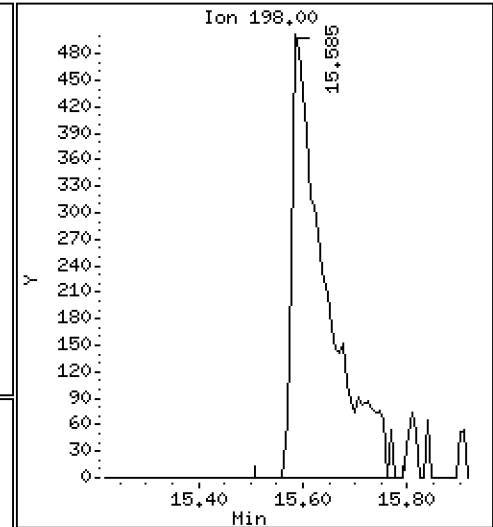
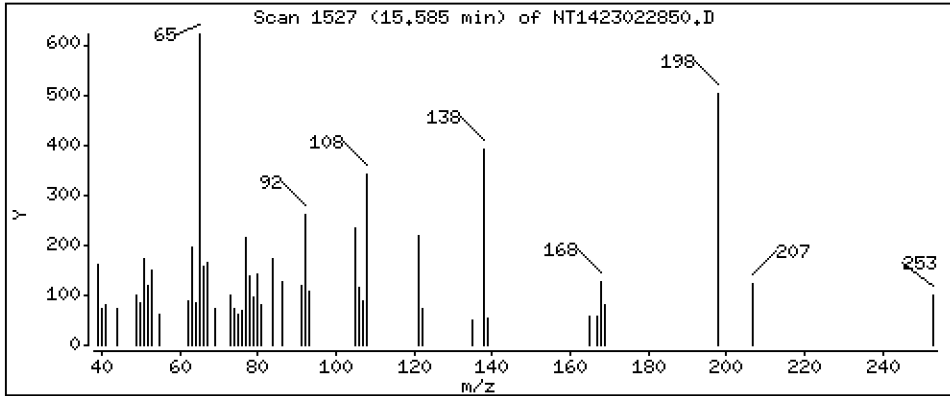
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 0.1648 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

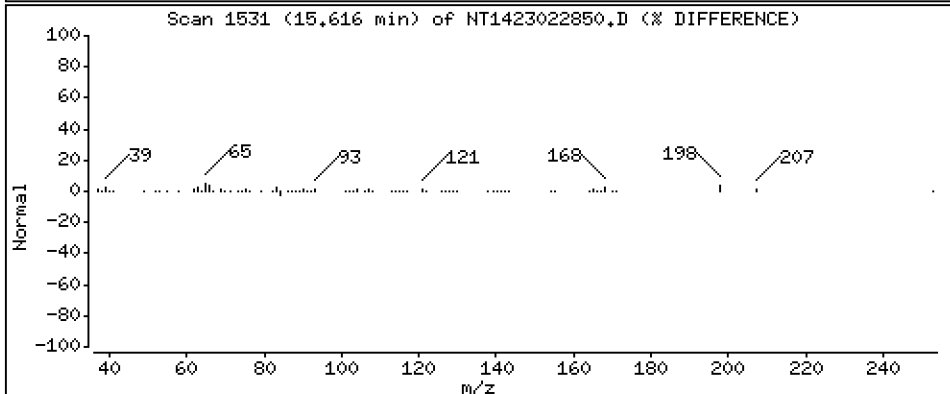
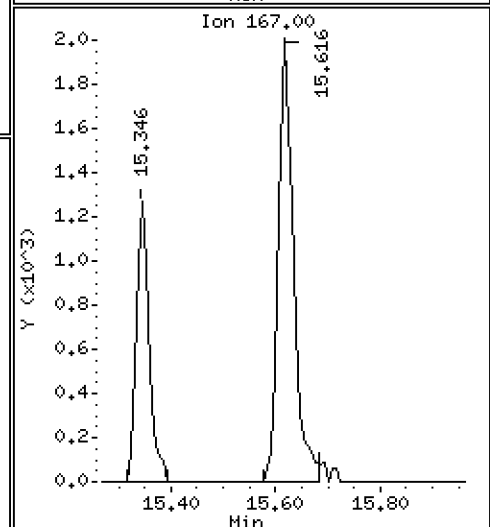
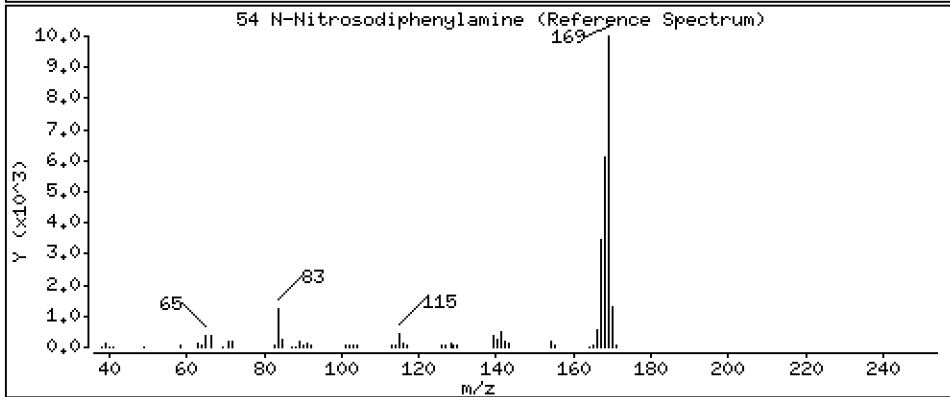
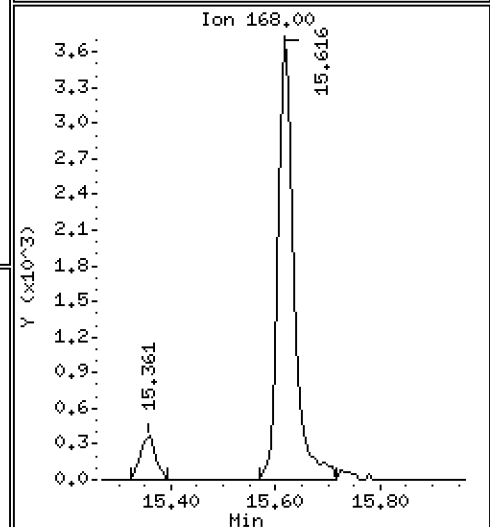
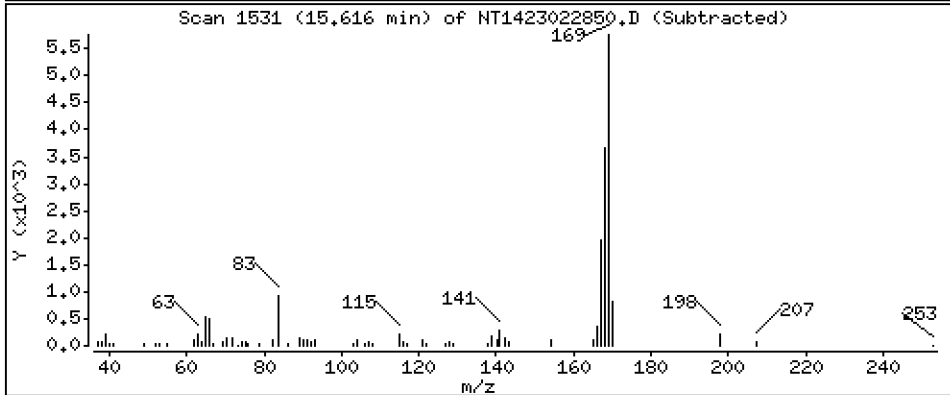
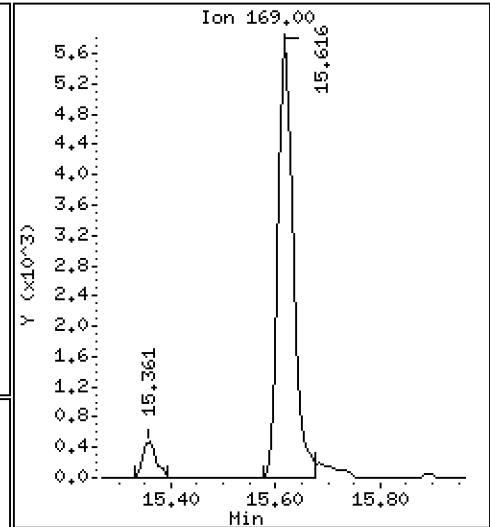
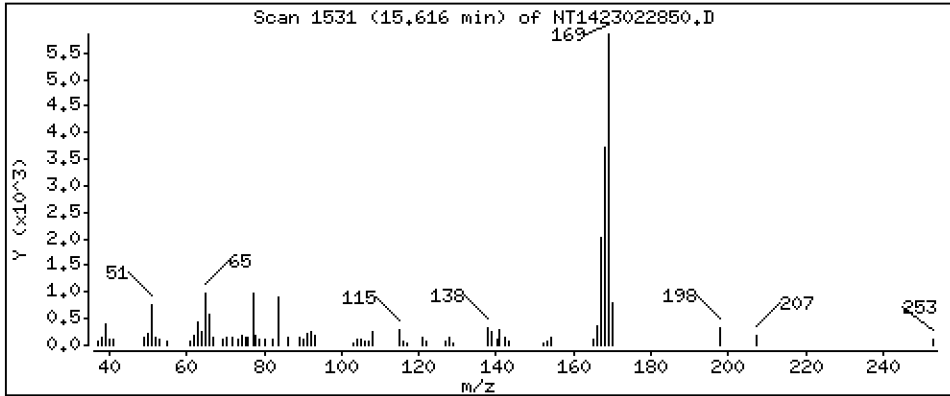
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,2165 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

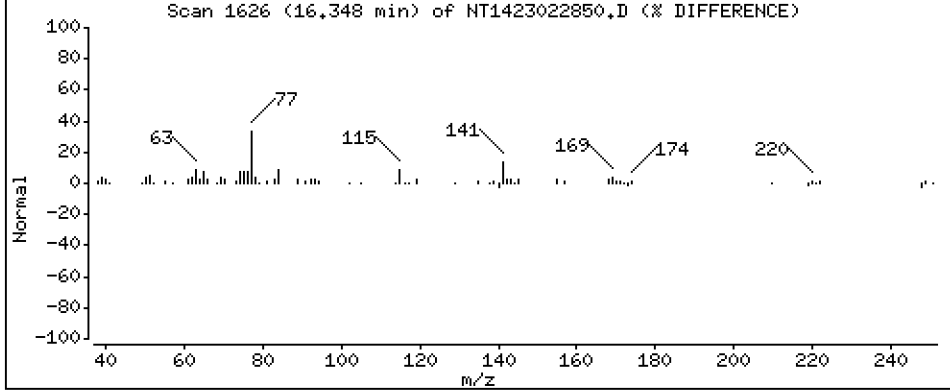
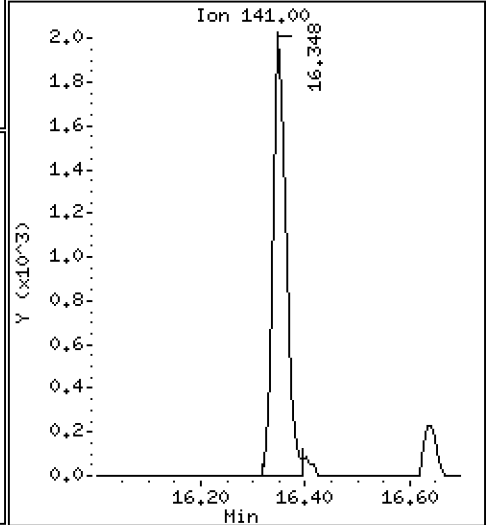
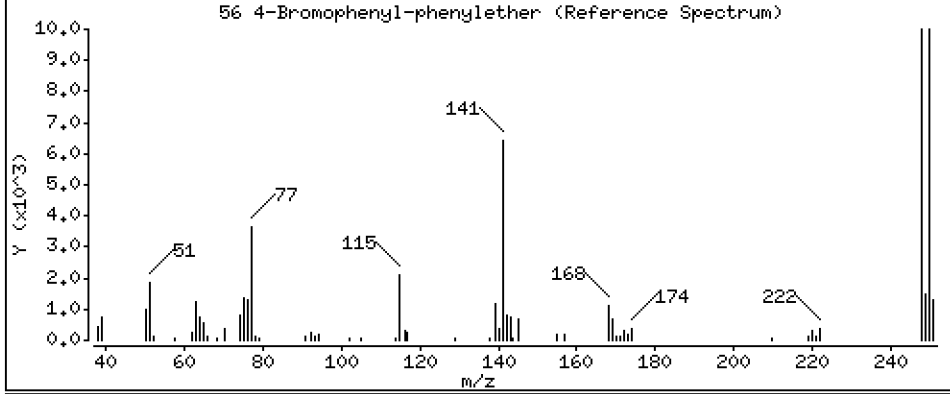
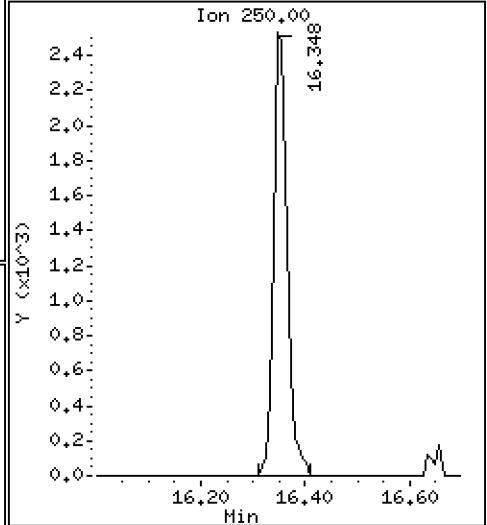
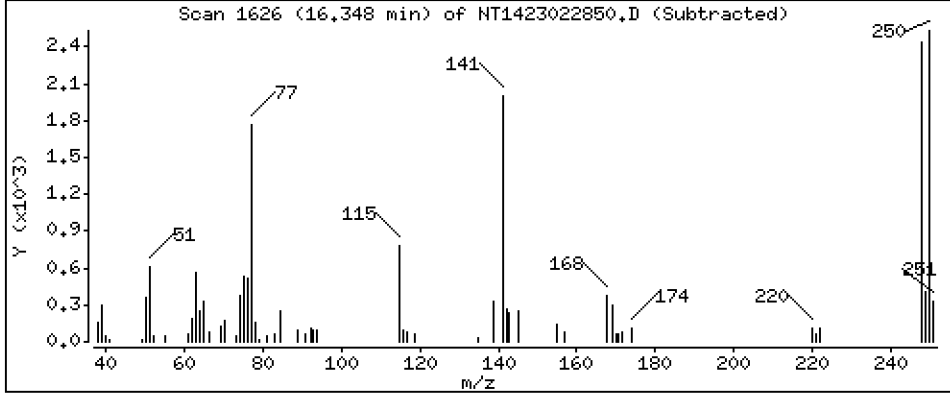
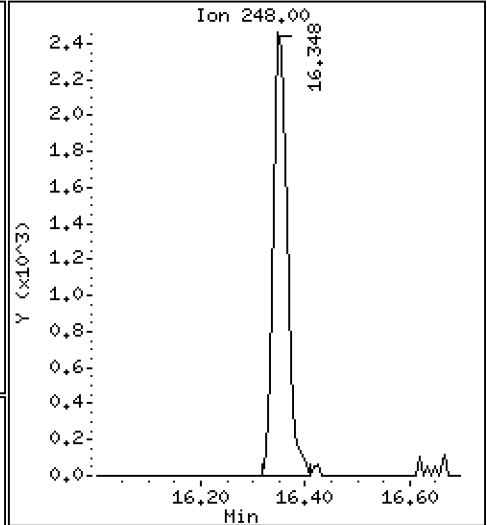
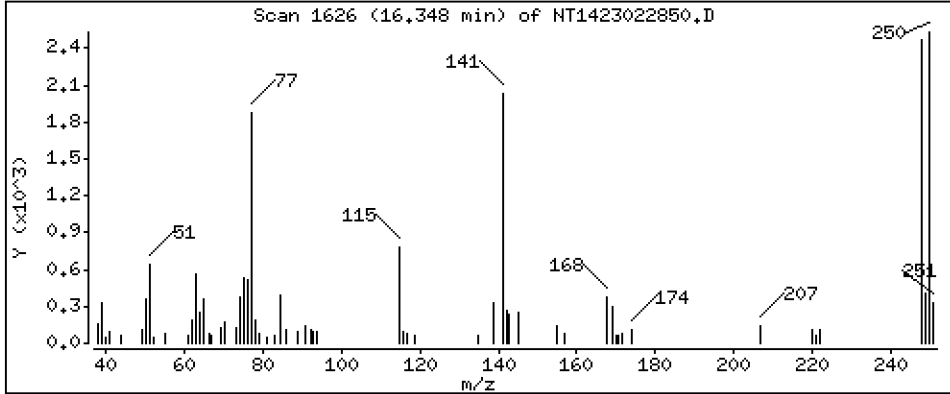
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,1925 ug/mL





Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

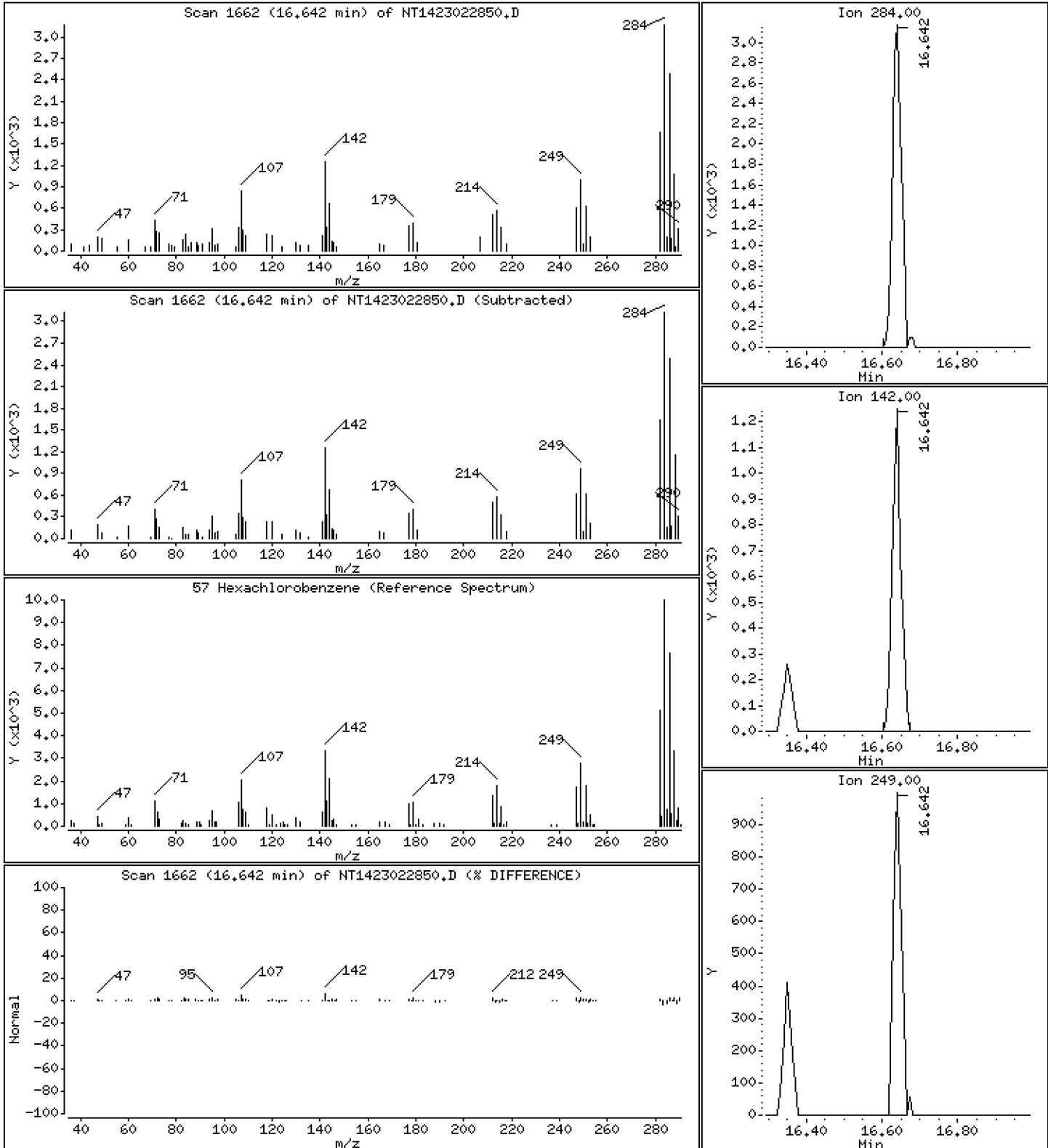
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 0.2014 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

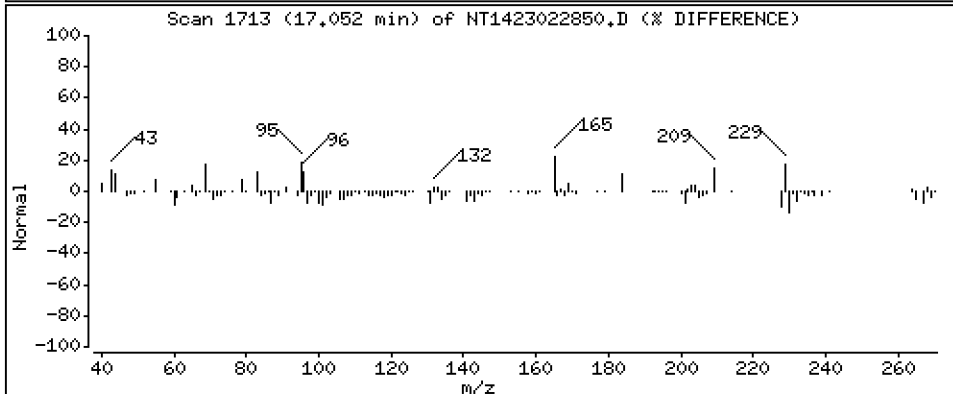
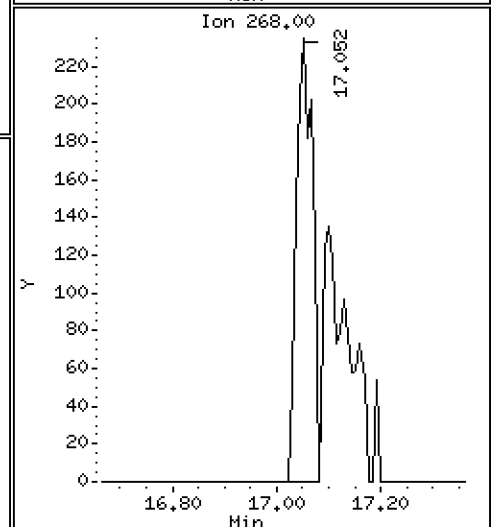
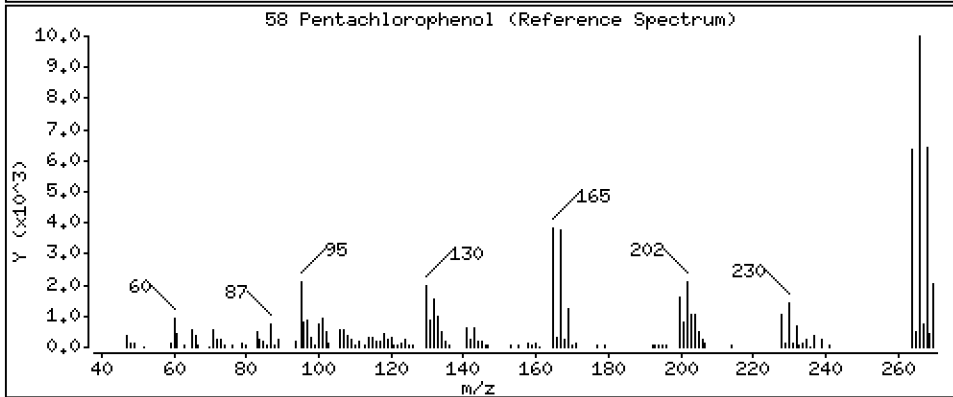
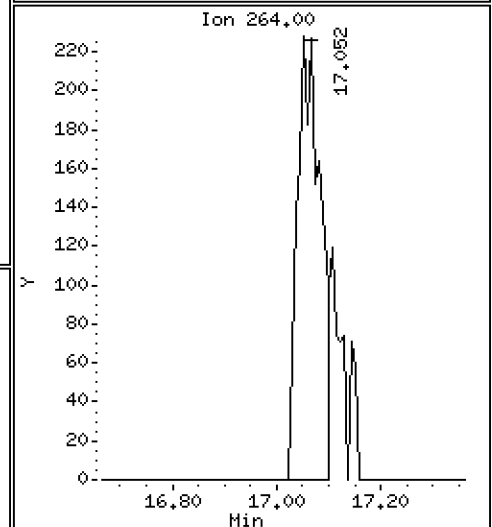
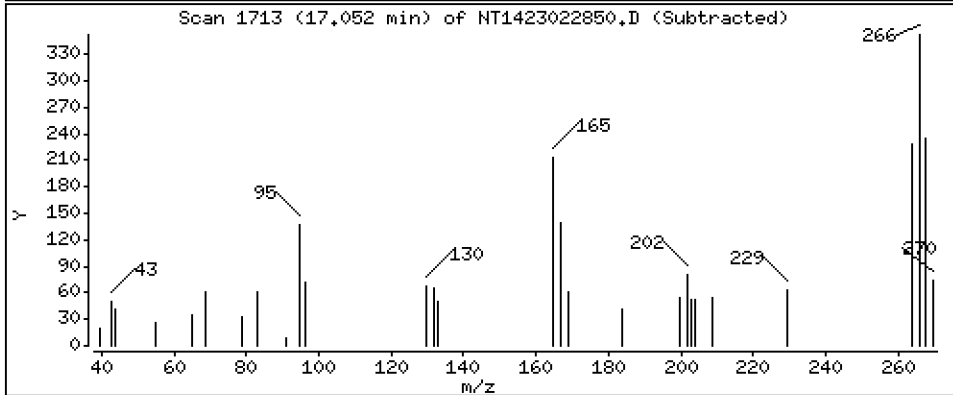
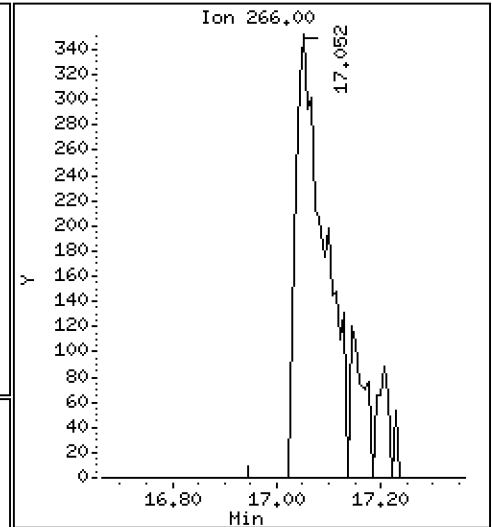
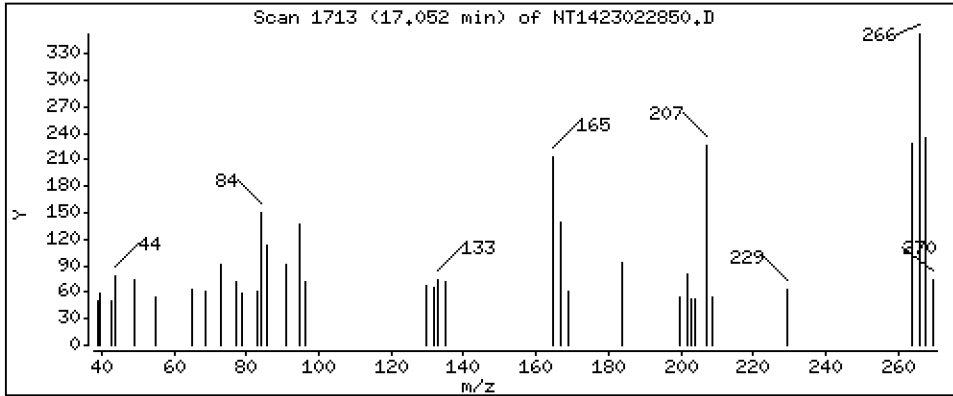
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,1450 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

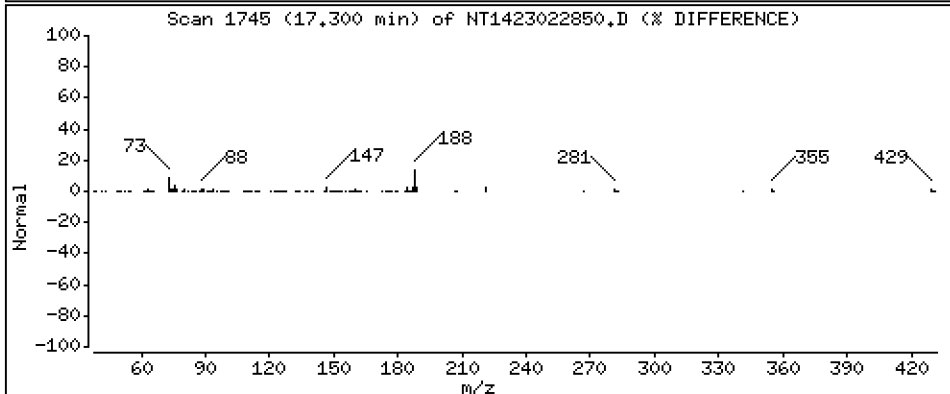
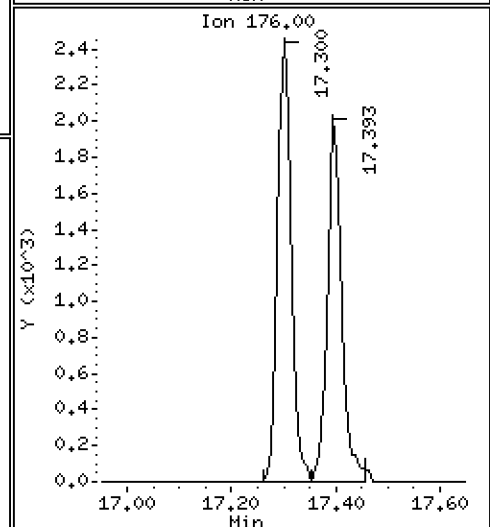
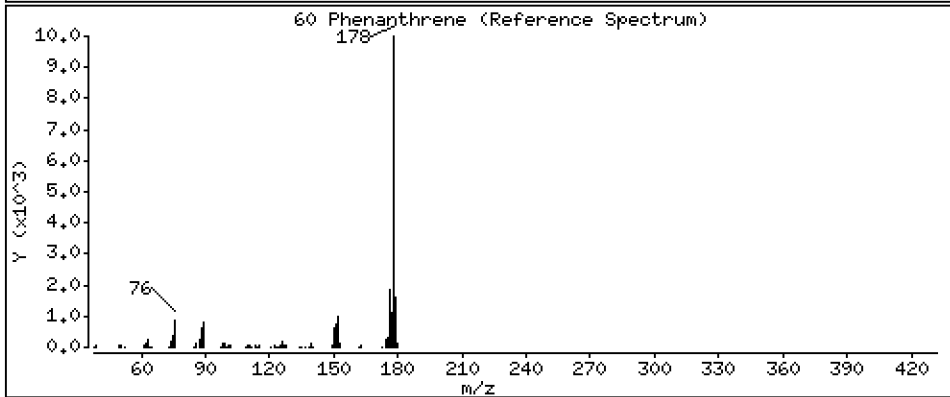
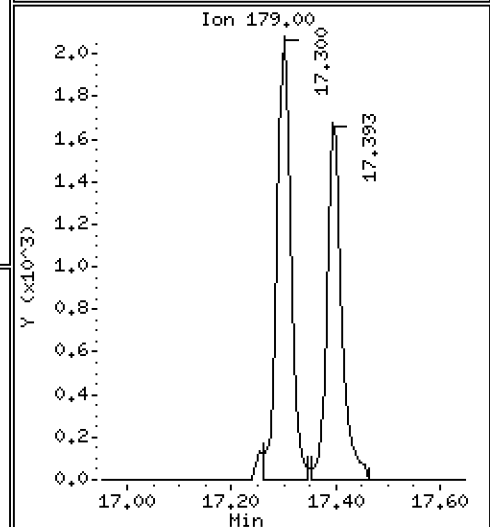
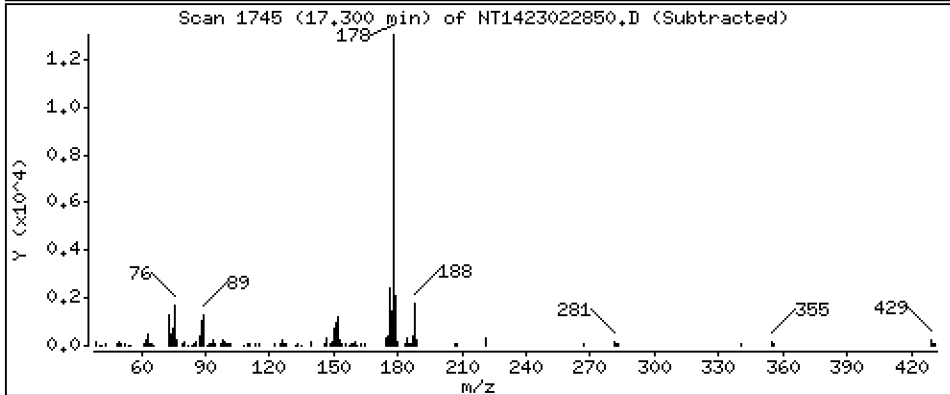
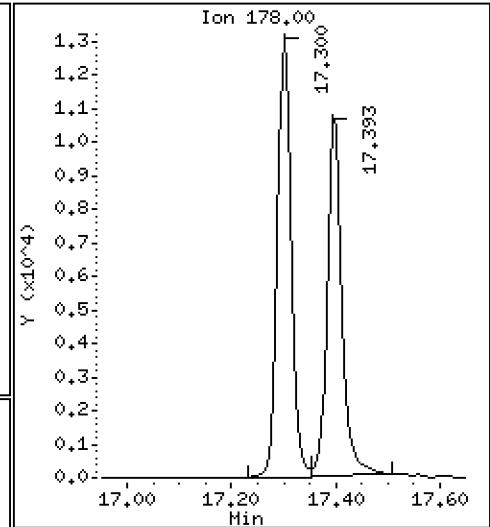
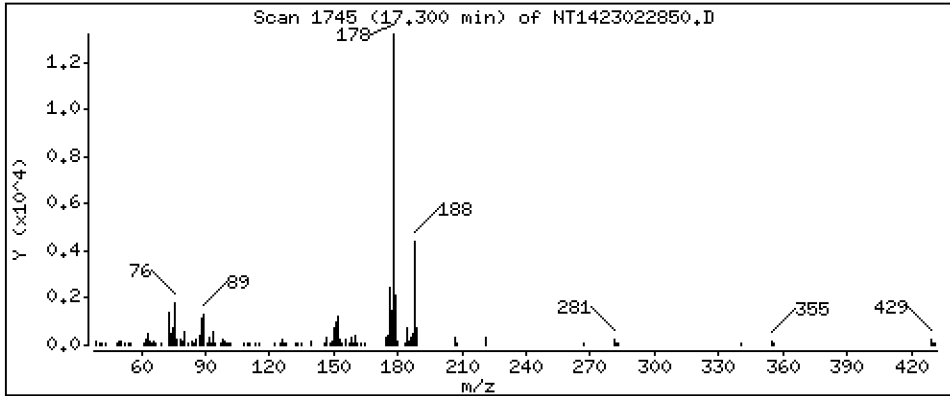
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 0.2104 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

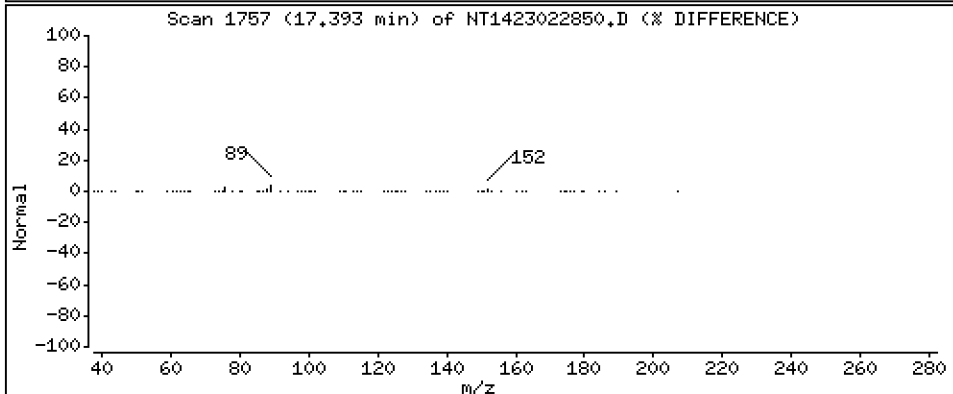
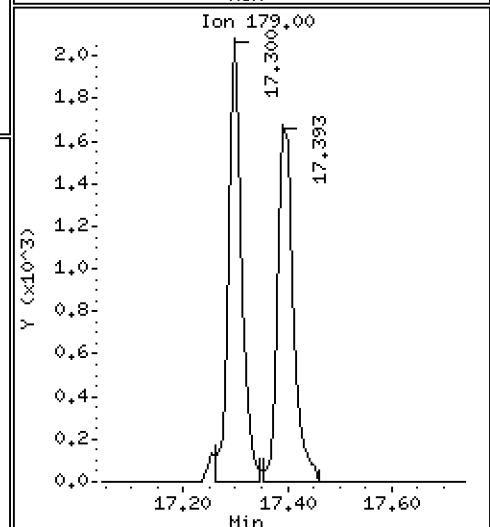
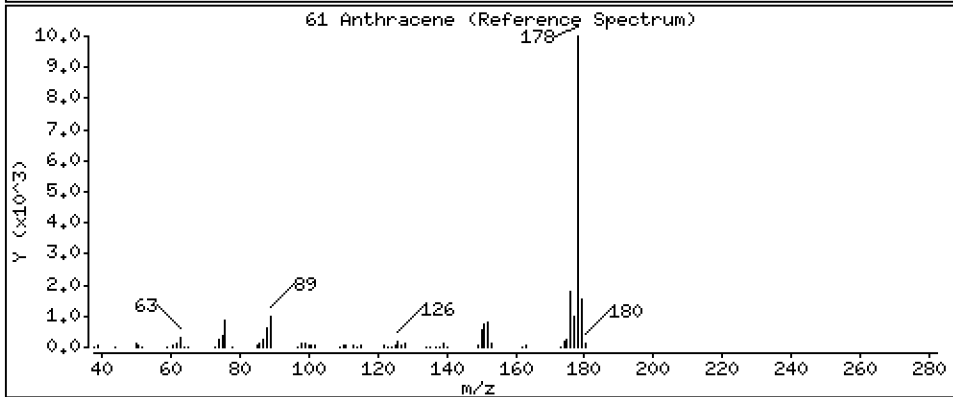
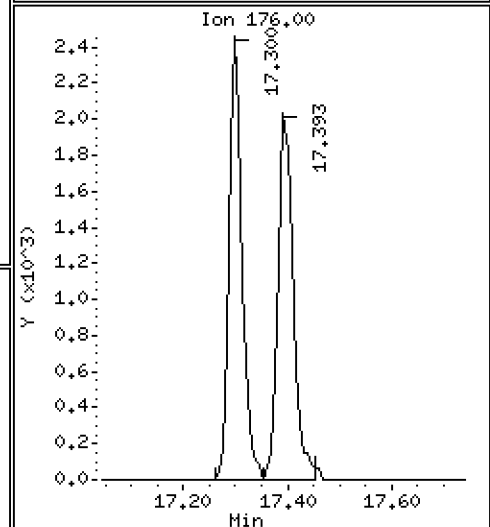
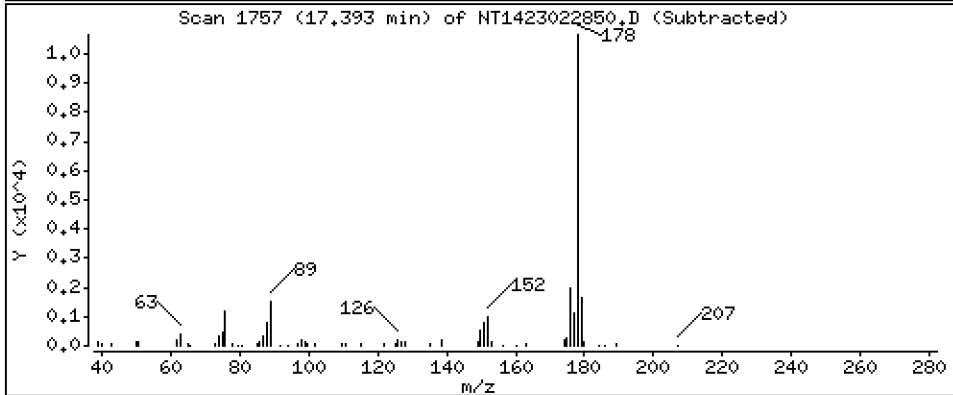
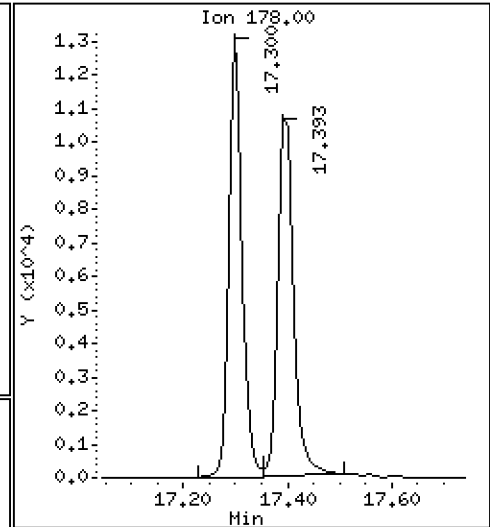
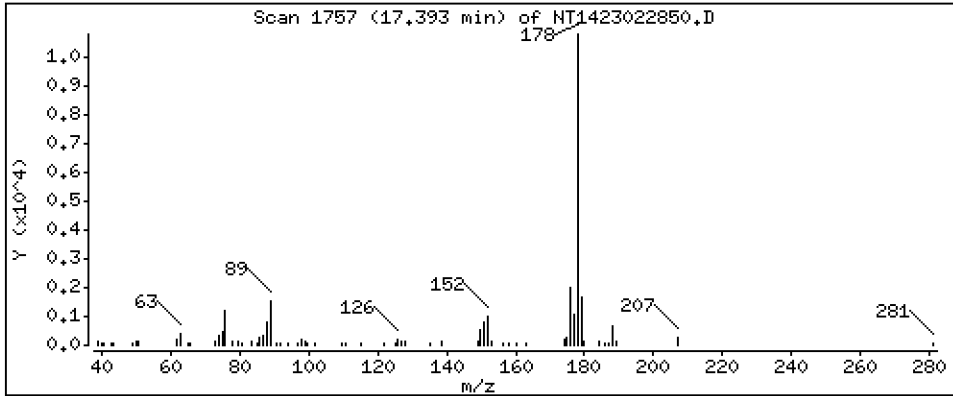
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2047 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

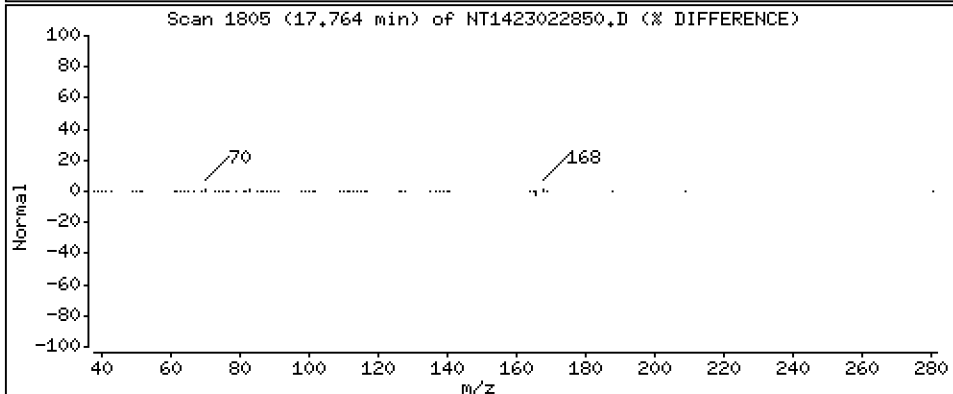
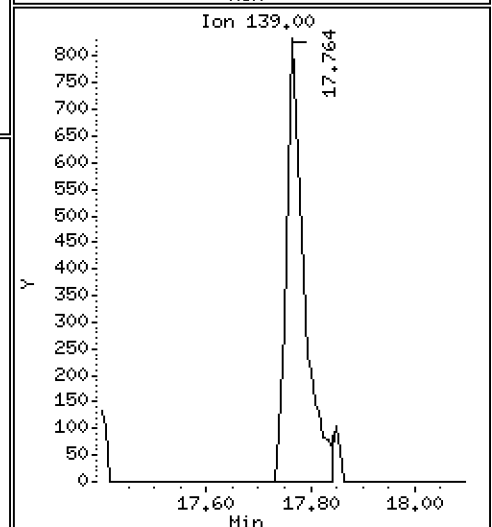
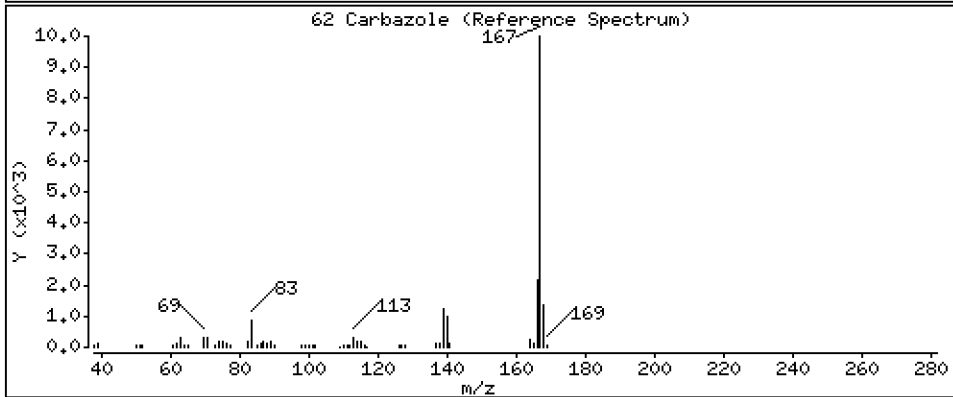
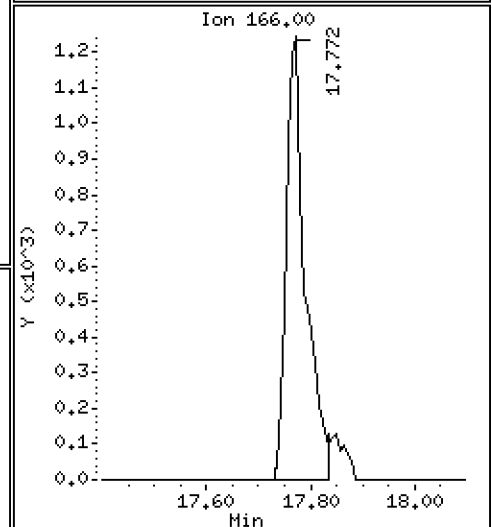
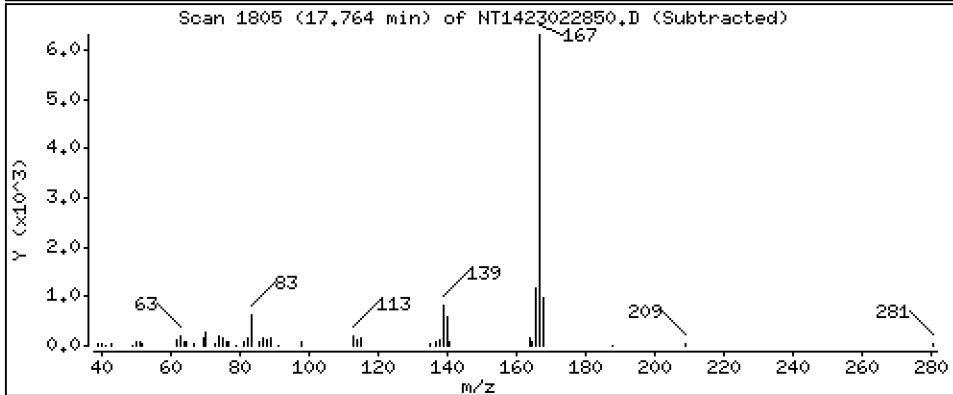
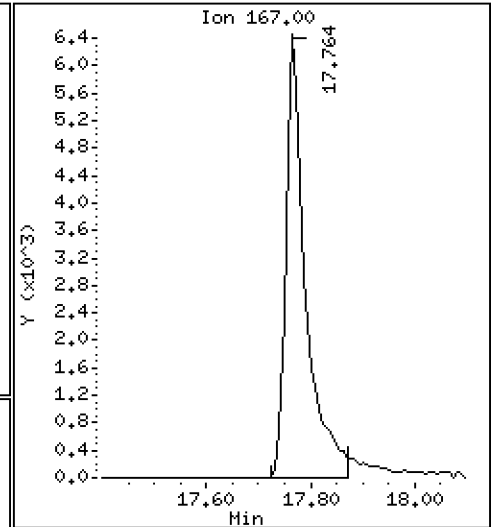
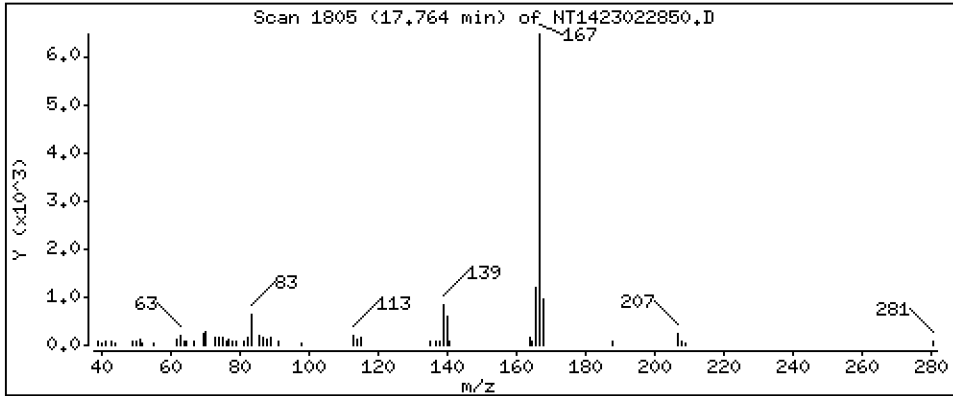
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1876 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

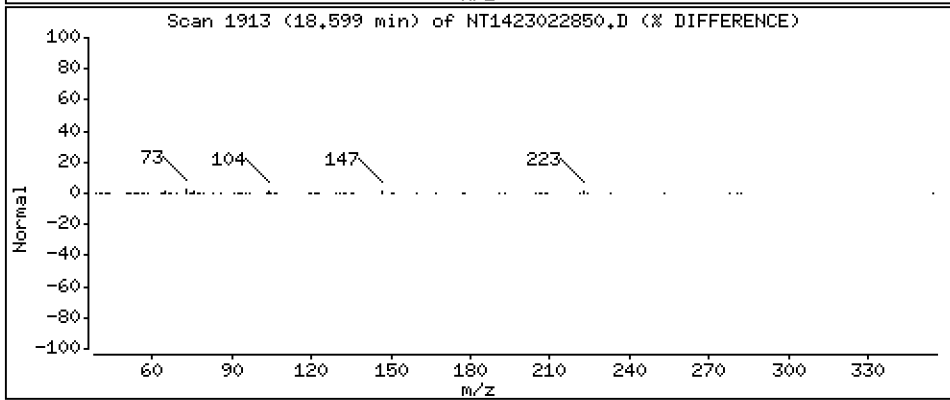
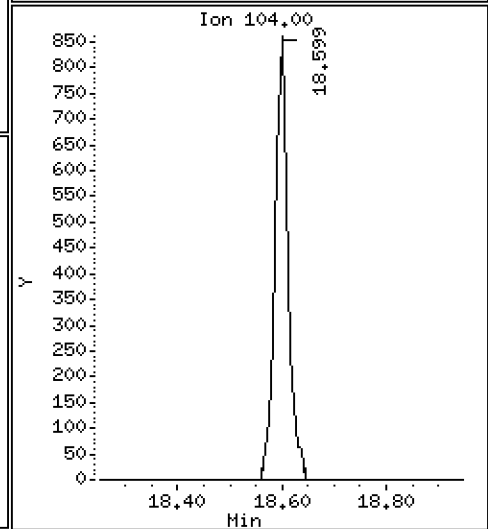
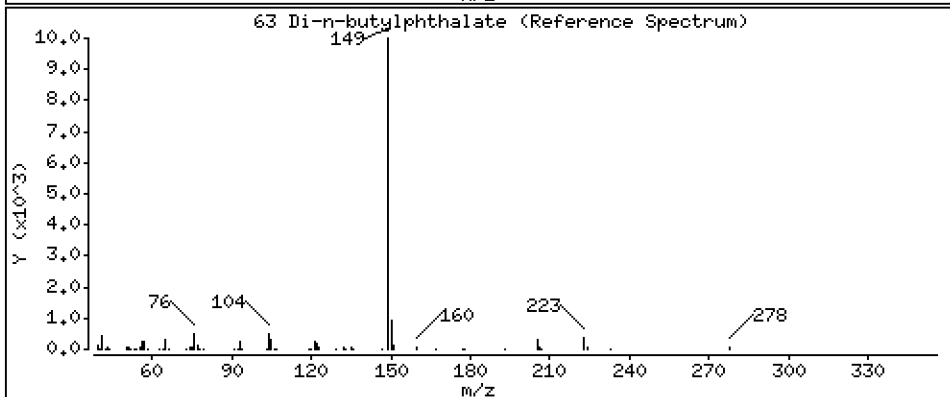
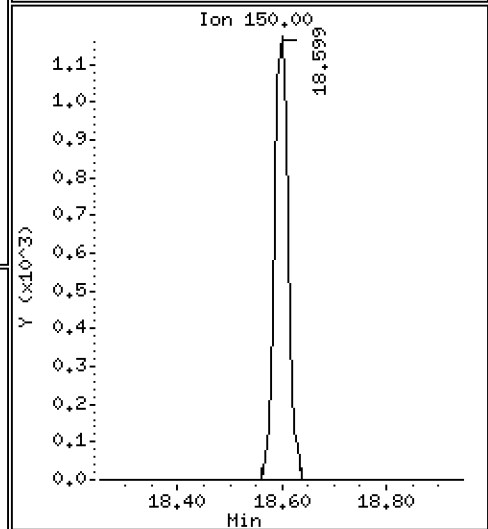
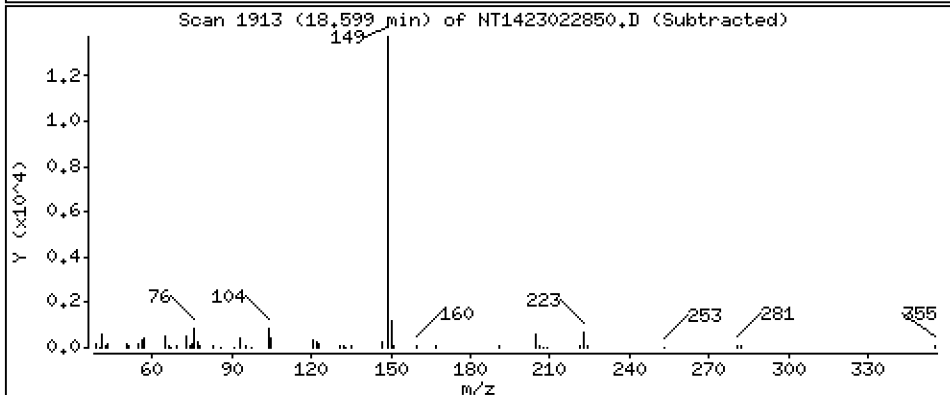
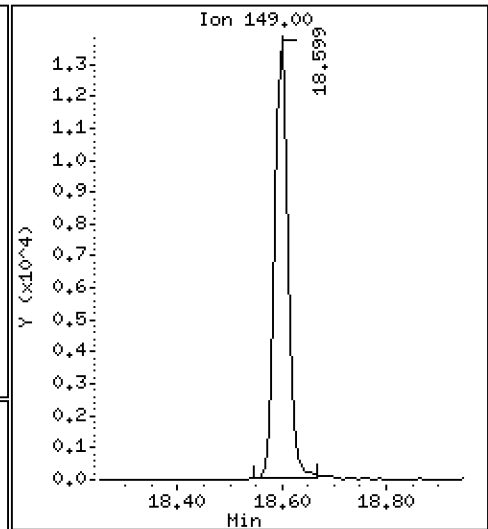
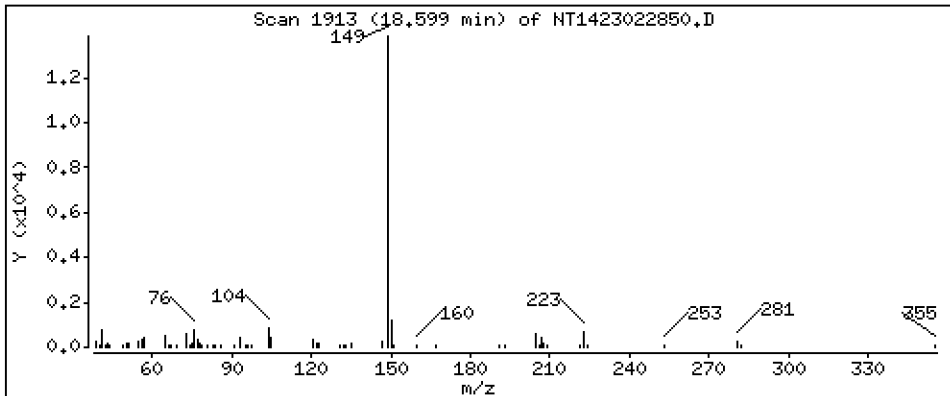
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,1934 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

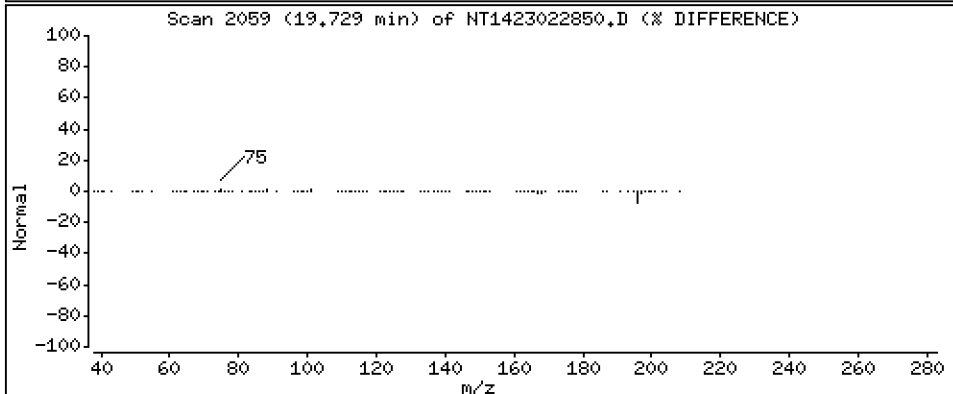
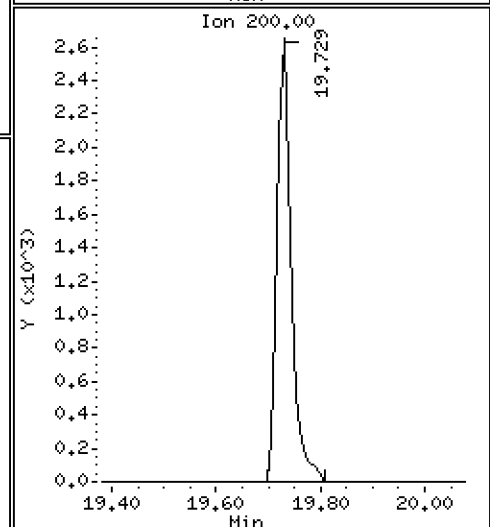
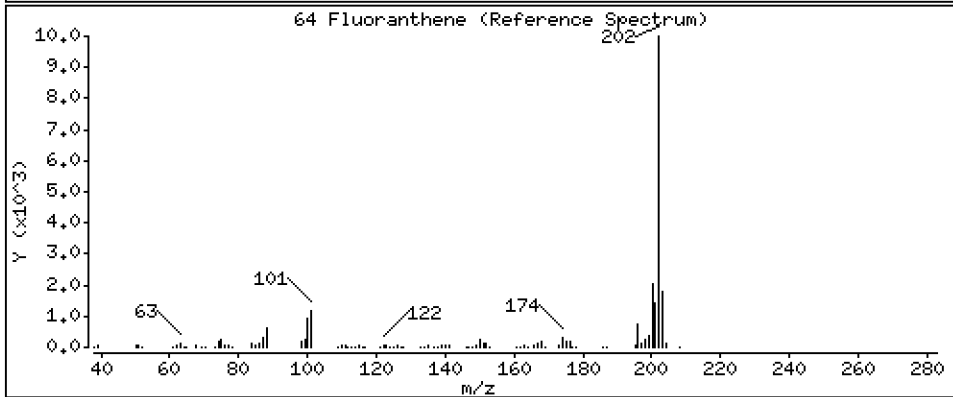
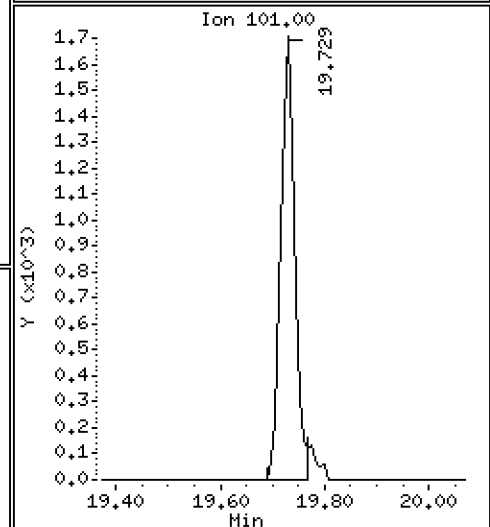
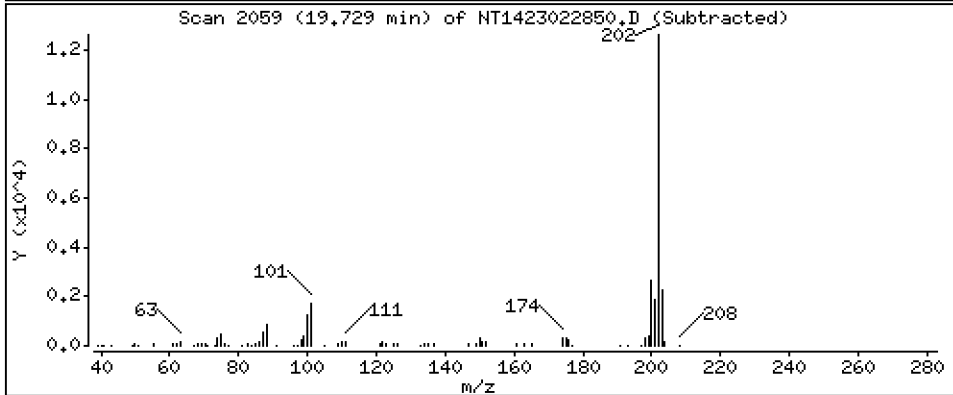
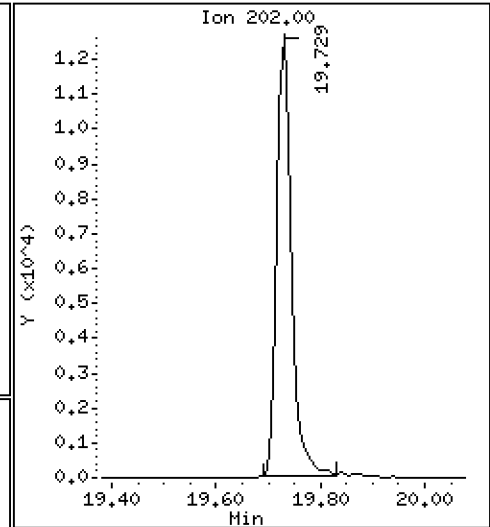
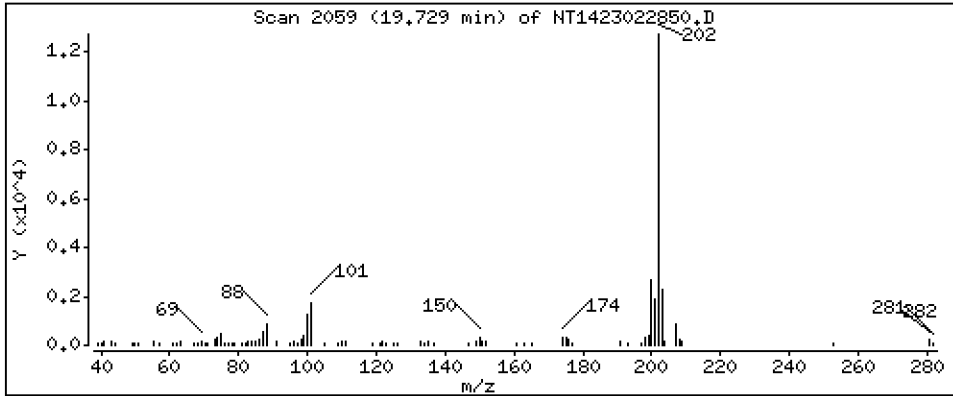
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,1763 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

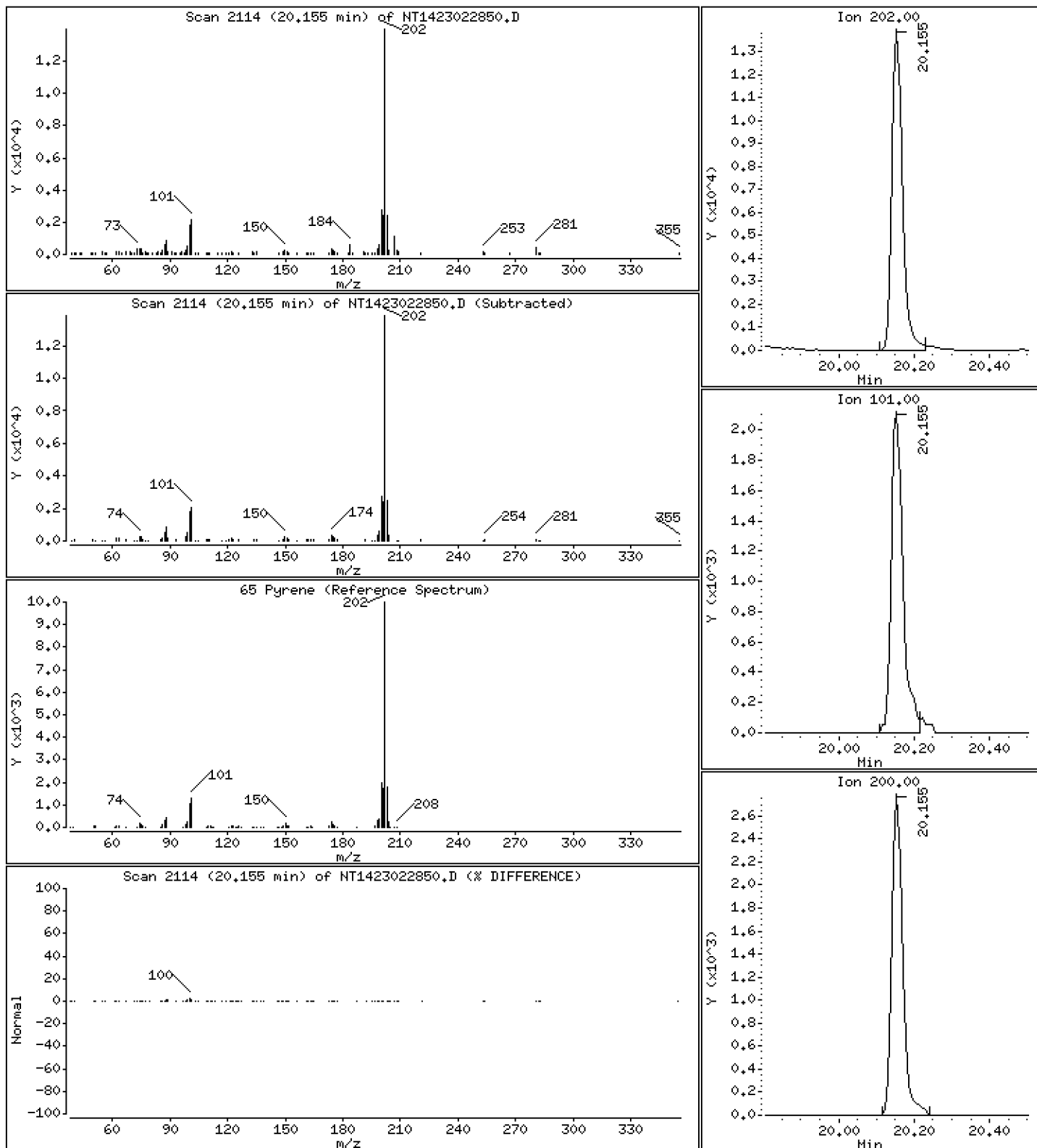
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,1838 ug/mL





Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

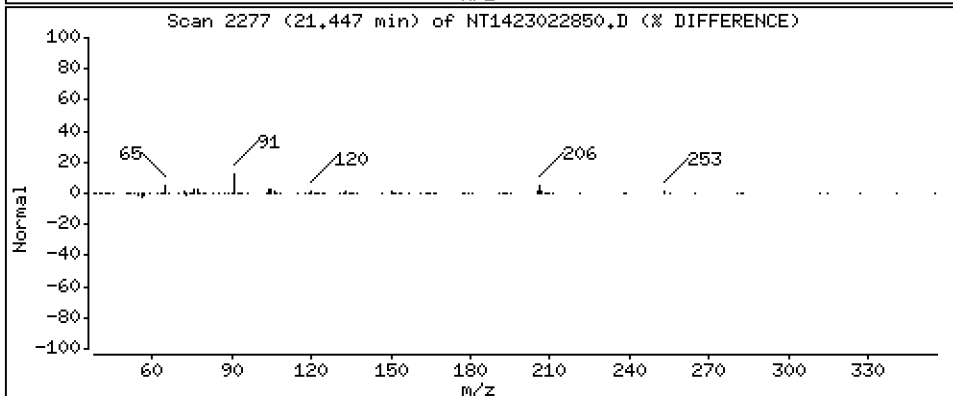
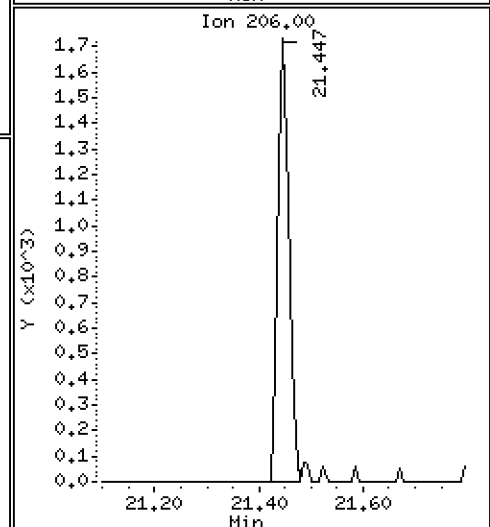
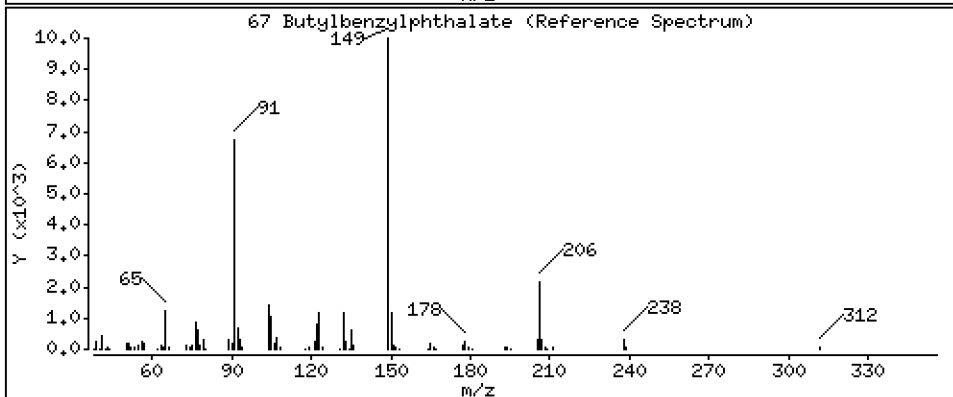
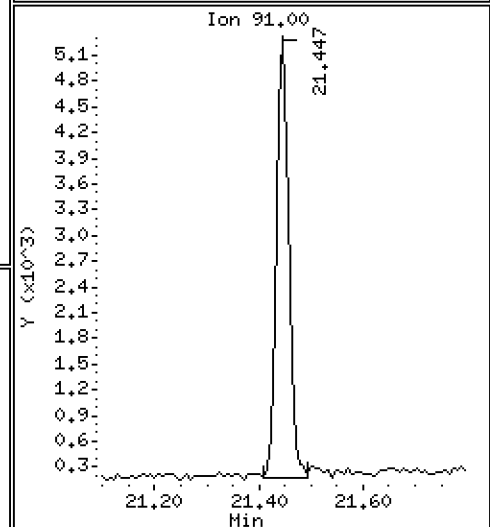
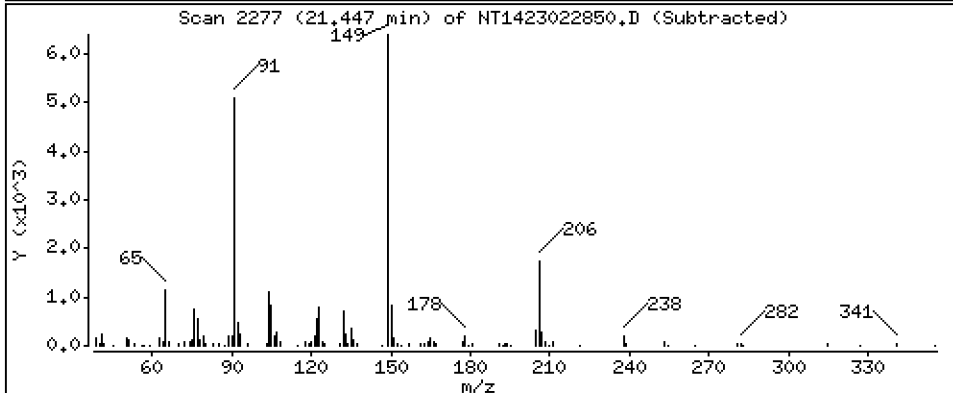
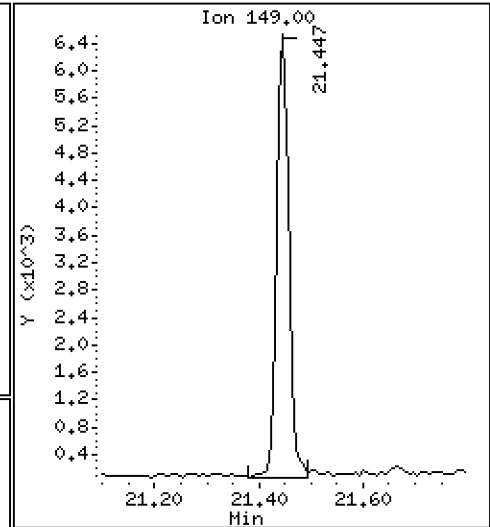
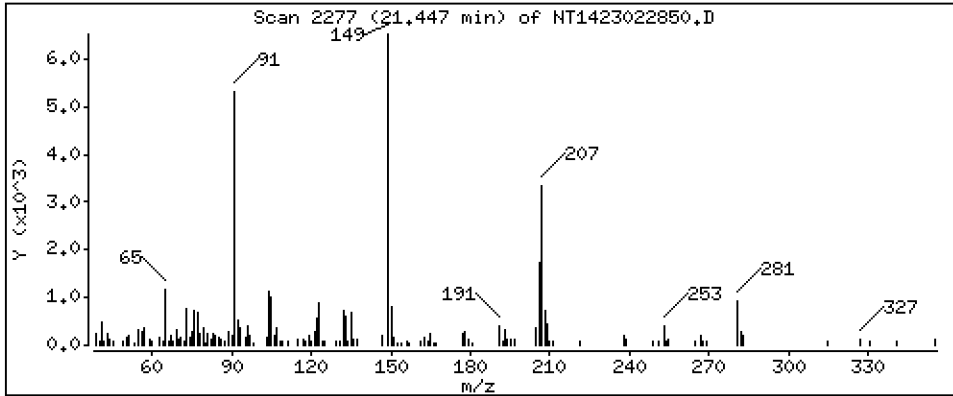
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,1999 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

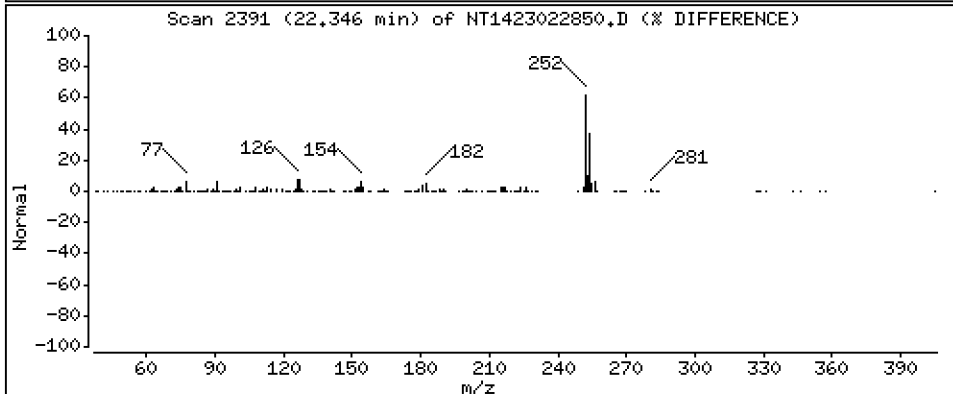
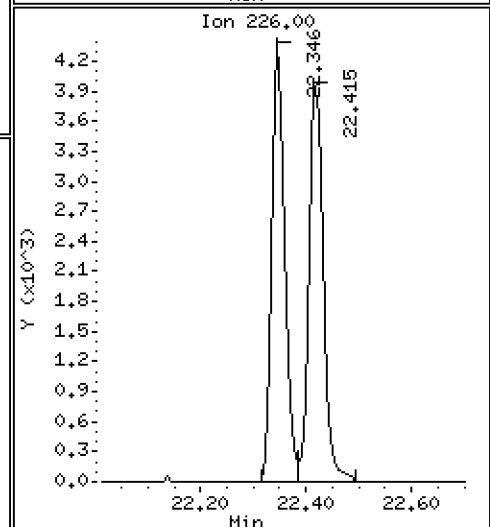
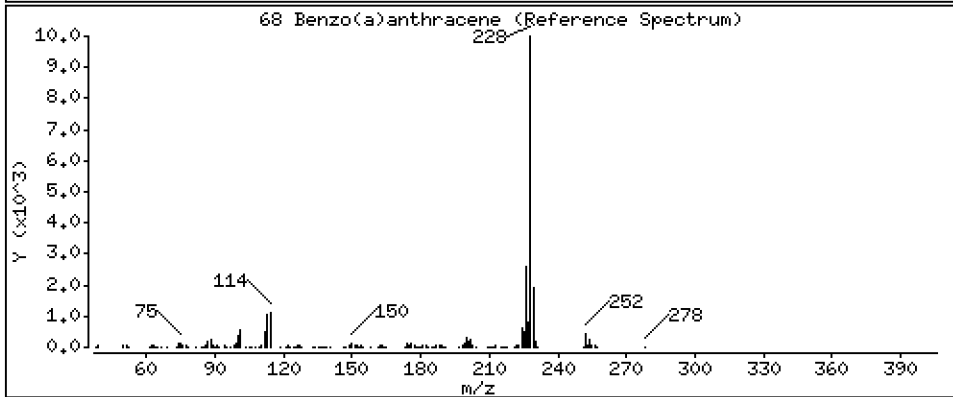
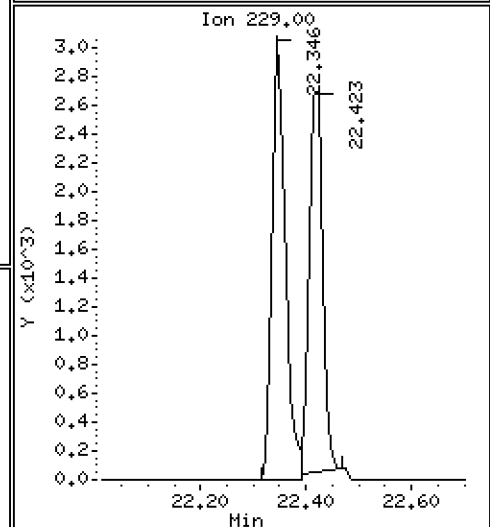
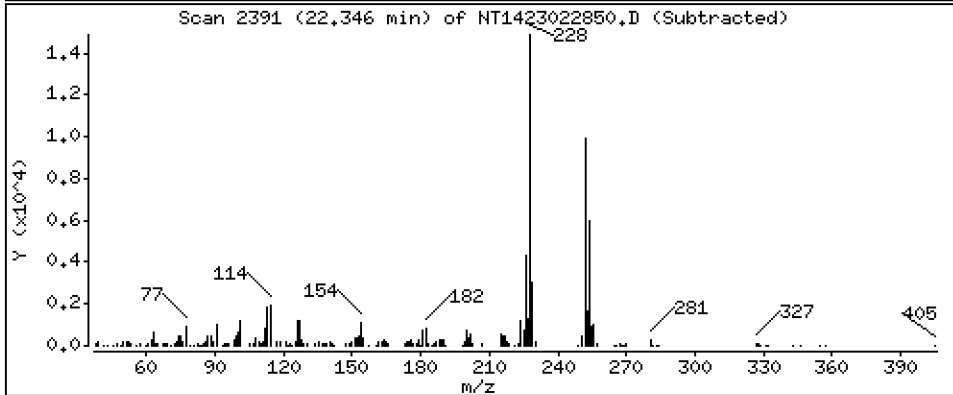
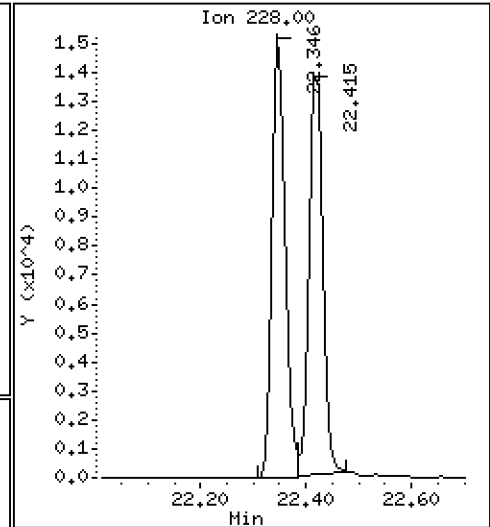
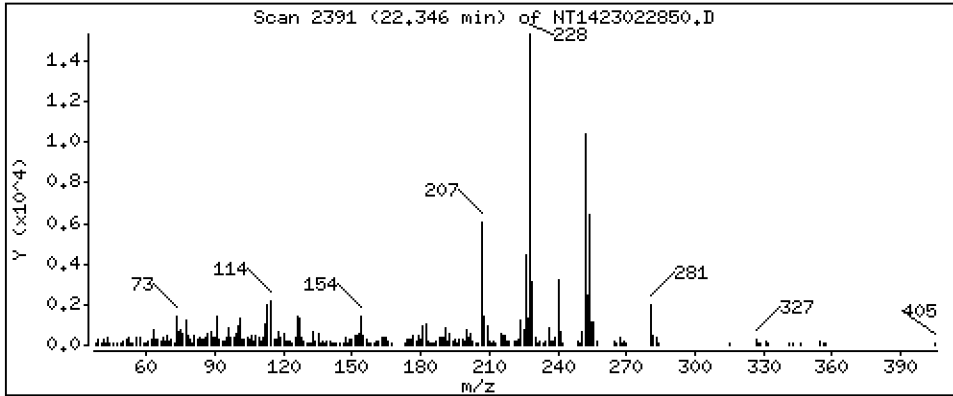
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2206 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

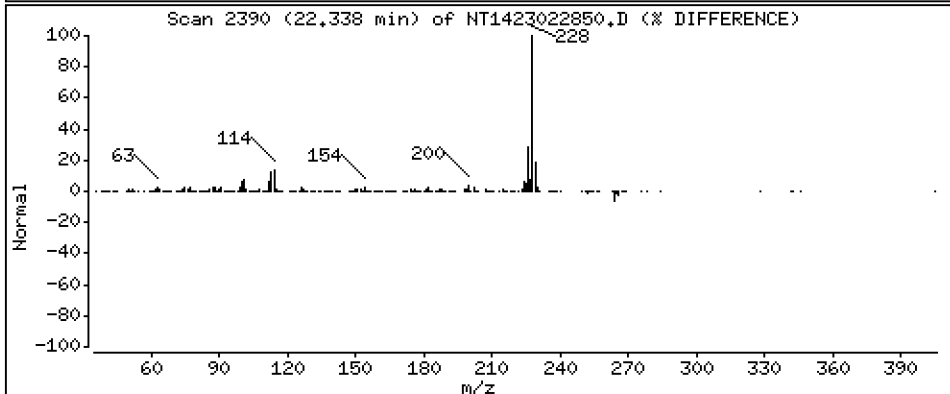
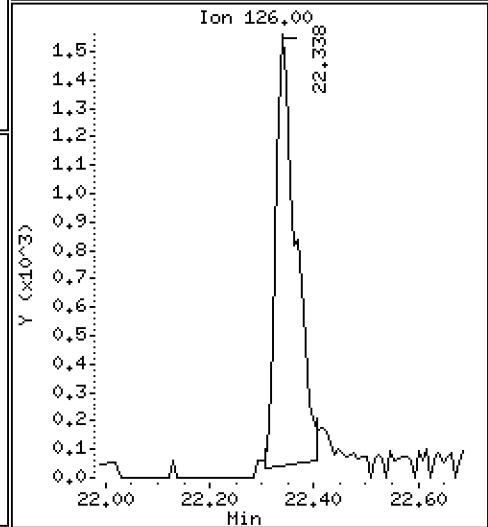
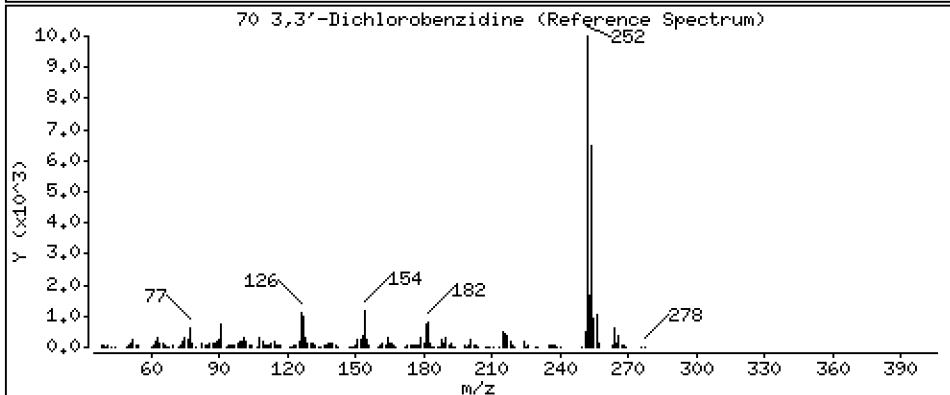
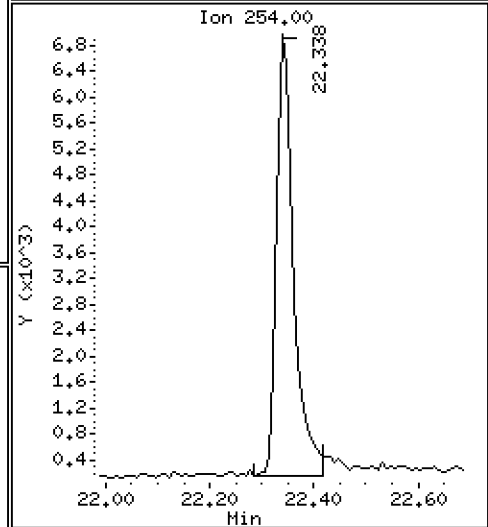
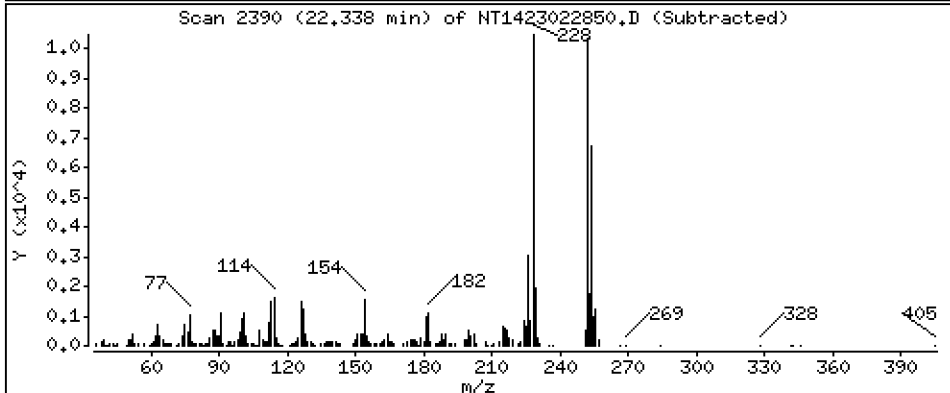
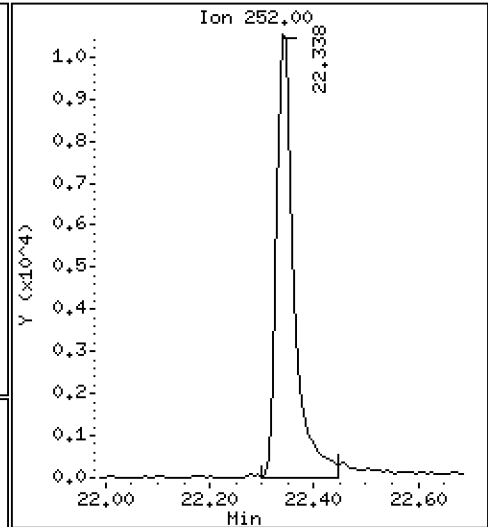
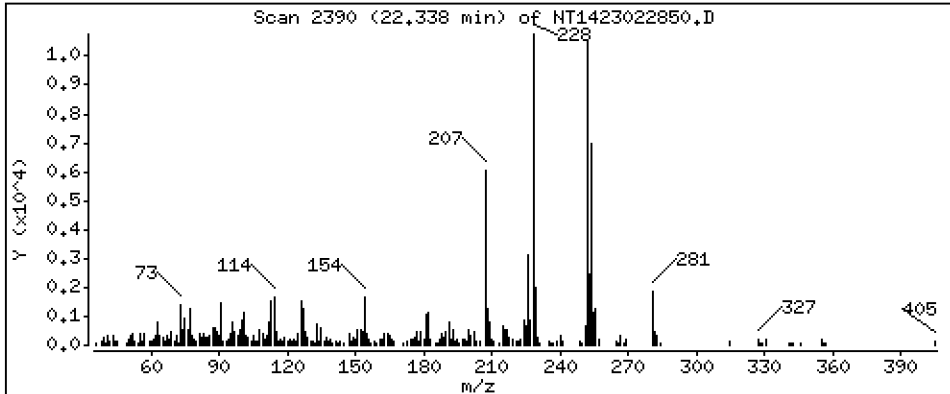
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,7172 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

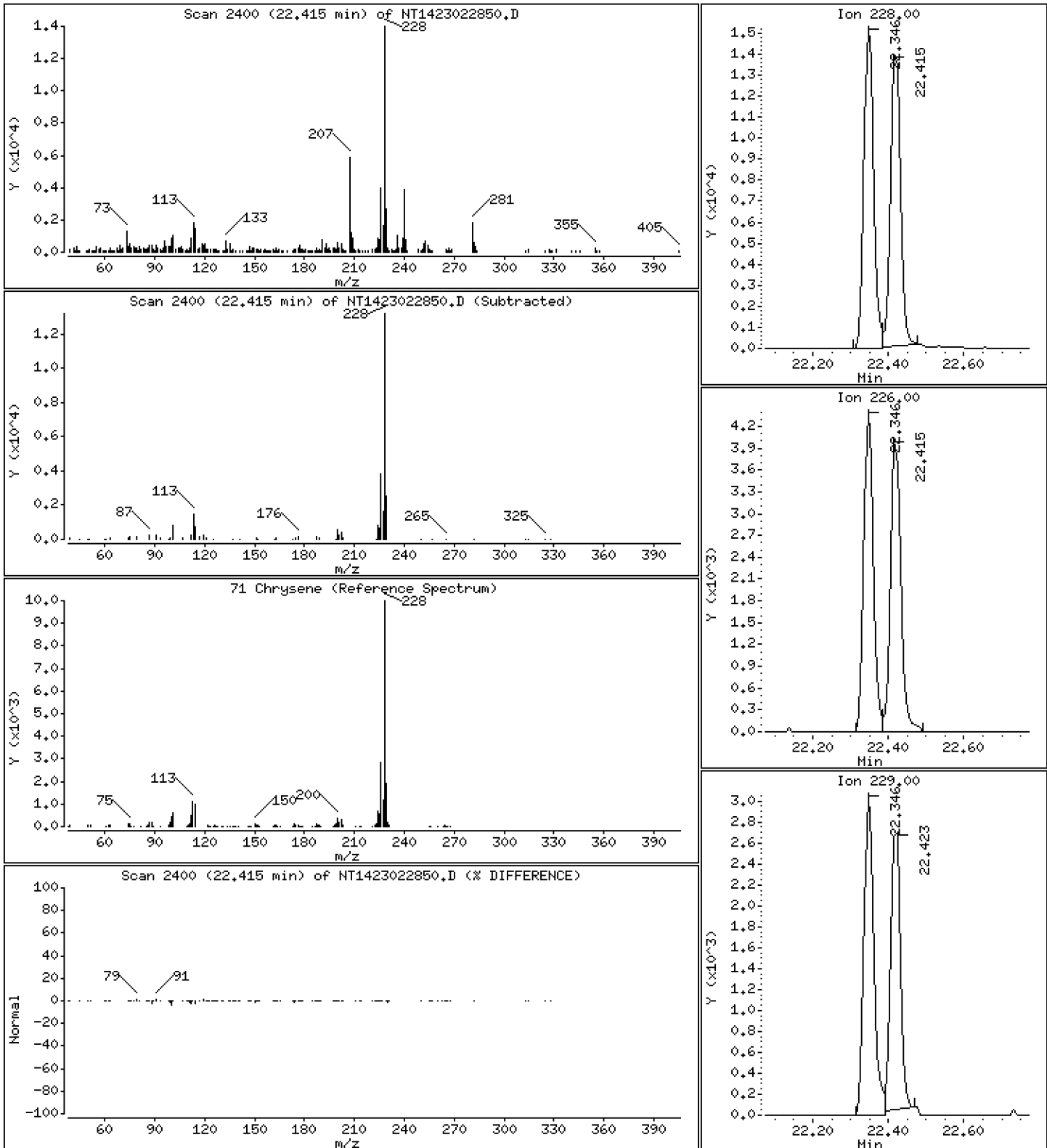
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2125 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

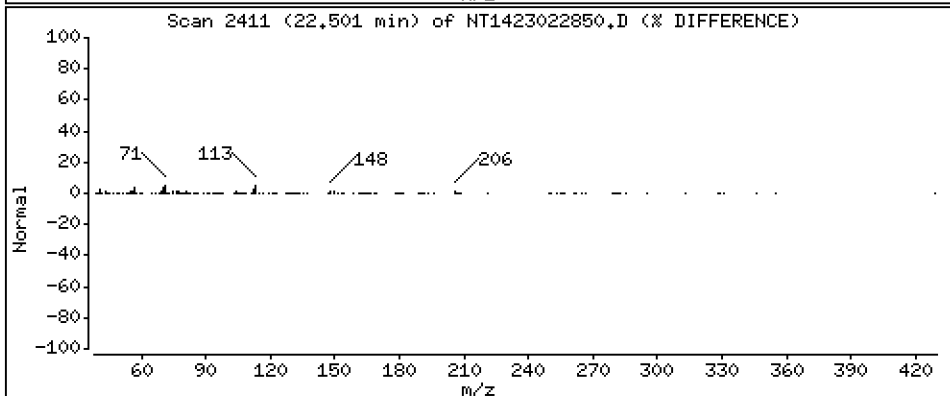
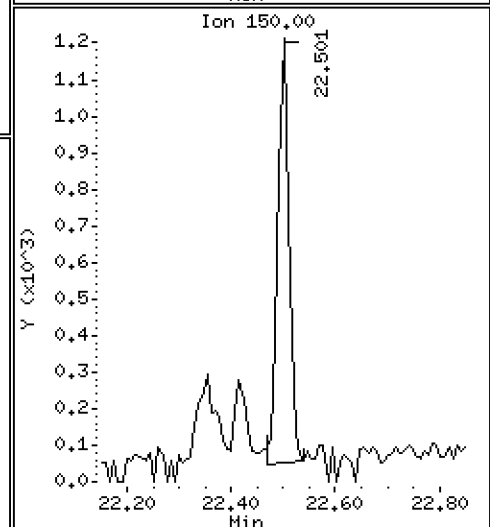
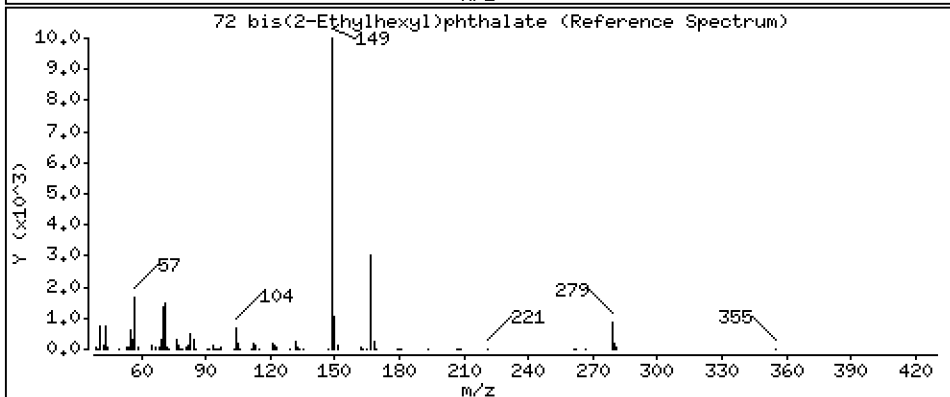
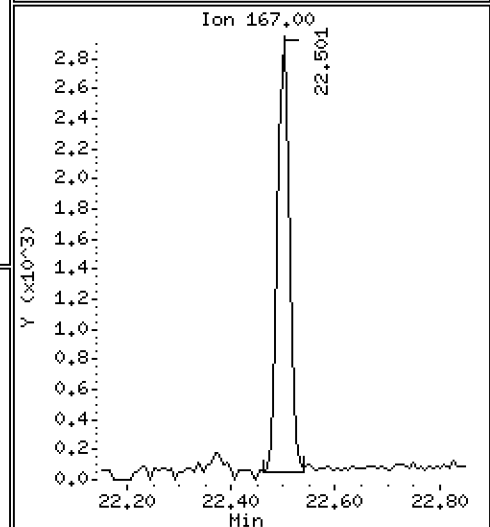
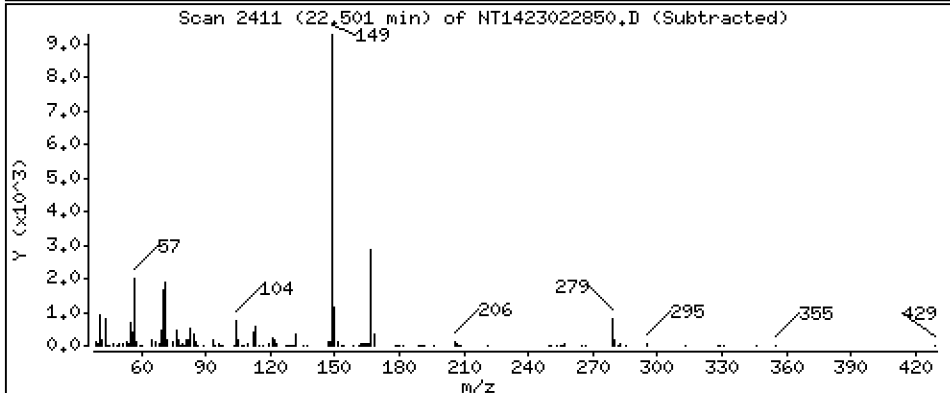
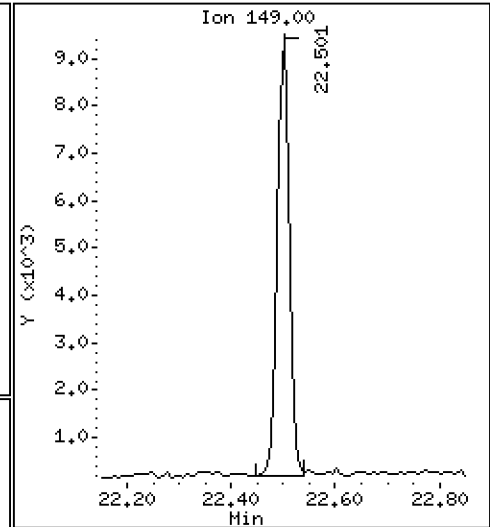
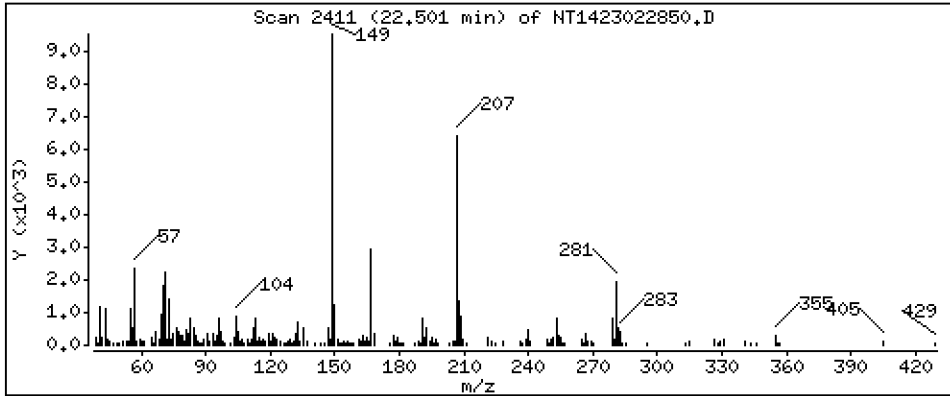
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,1812 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

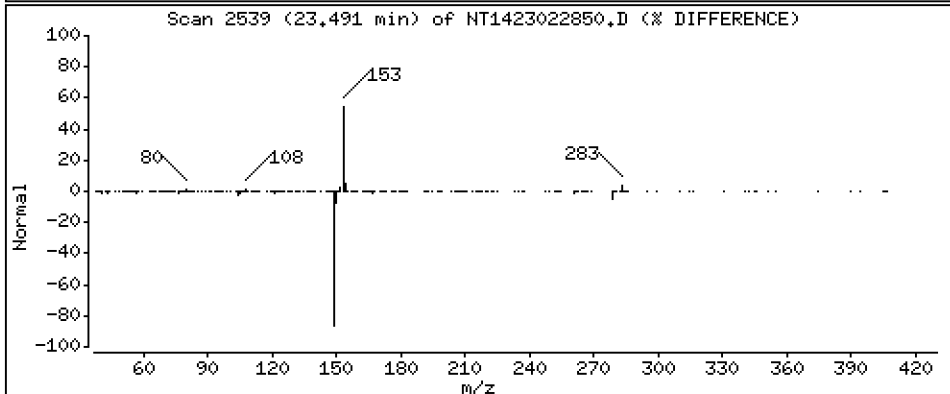
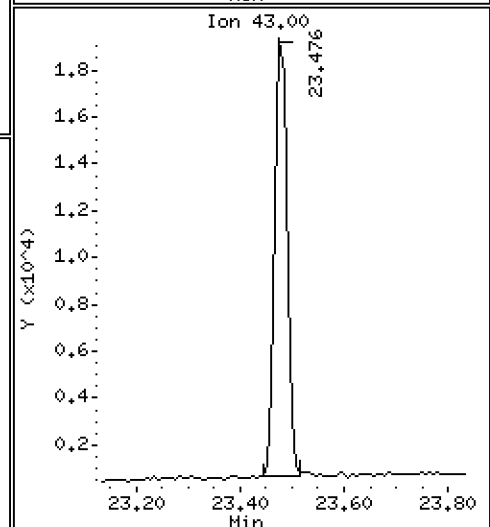
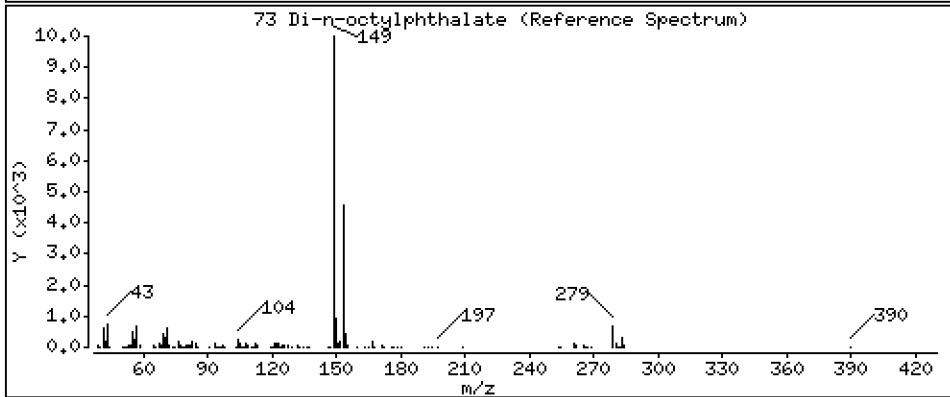
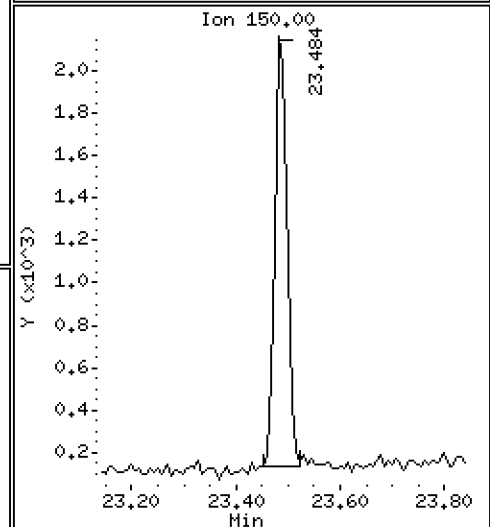
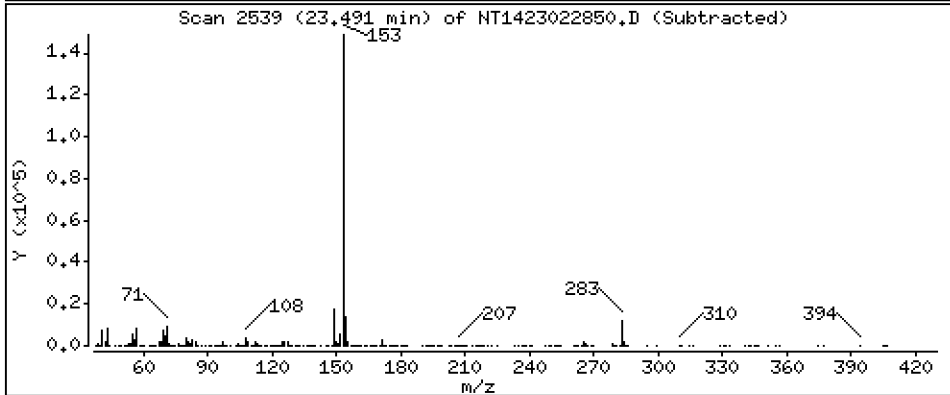
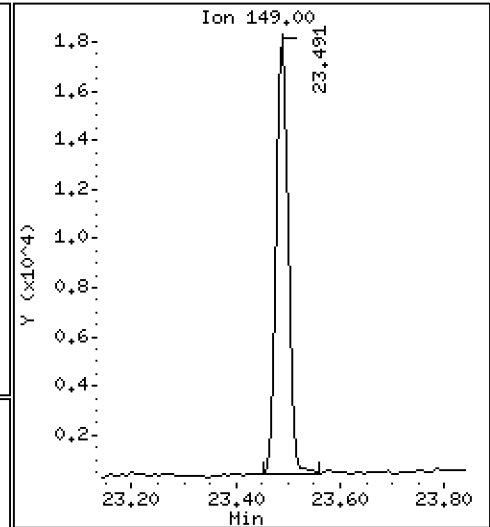
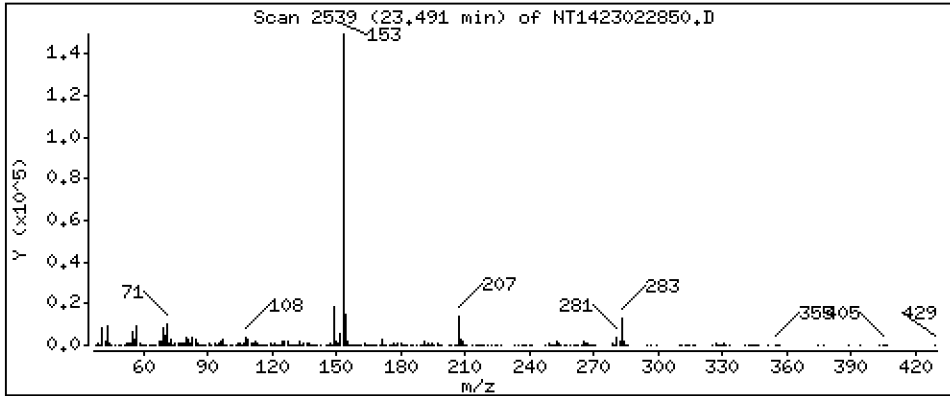
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2059 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

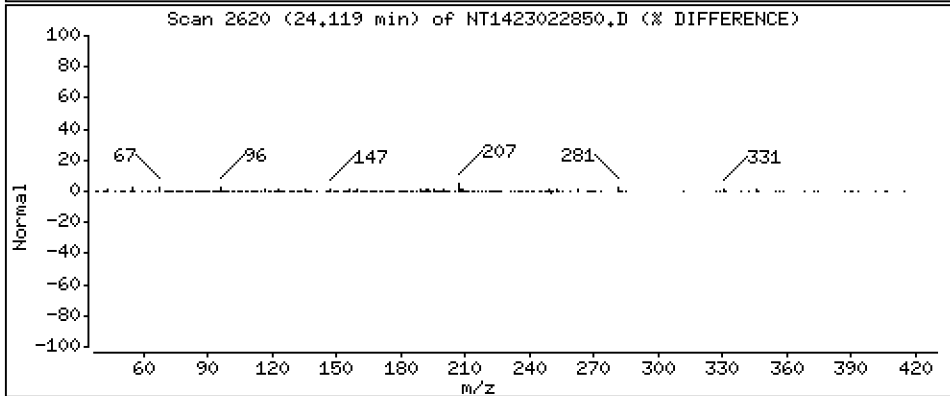
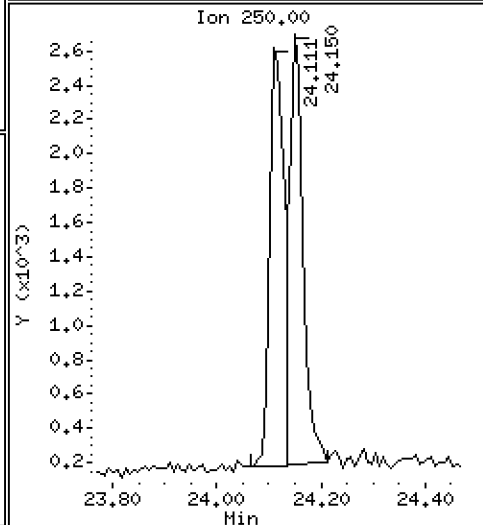
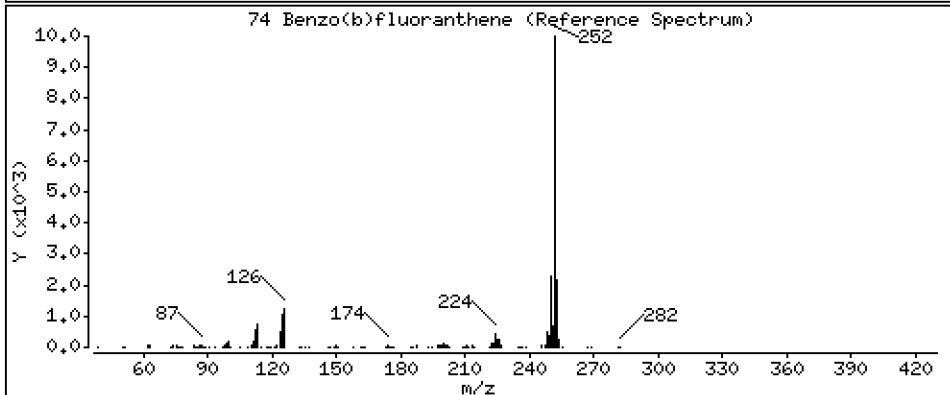
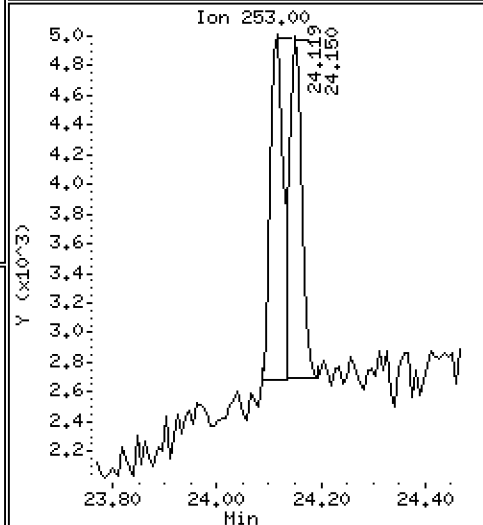
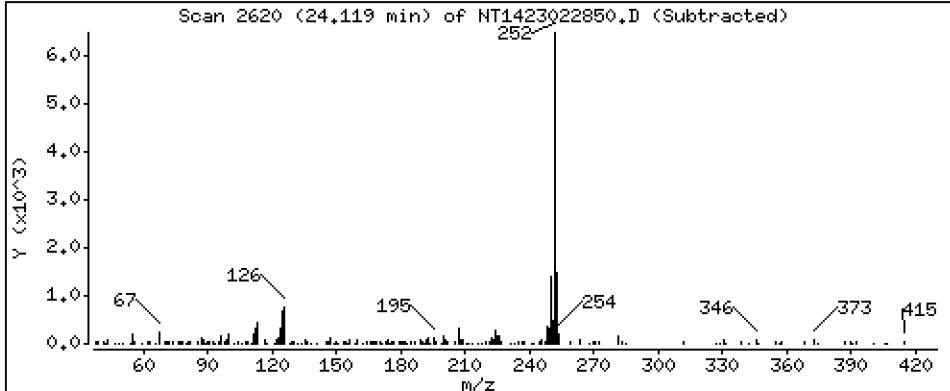
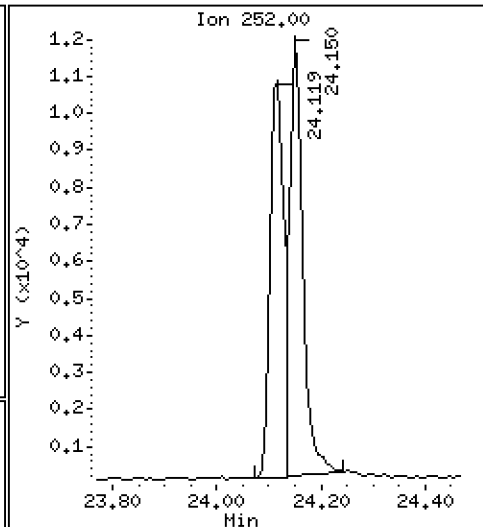
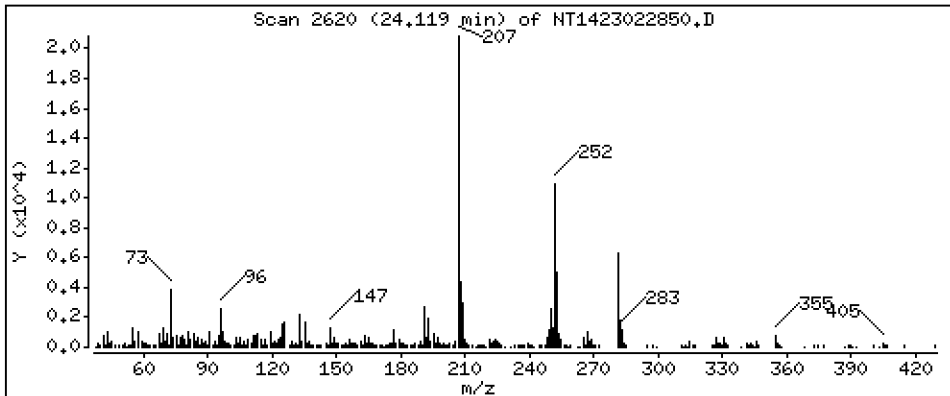
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,2502 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

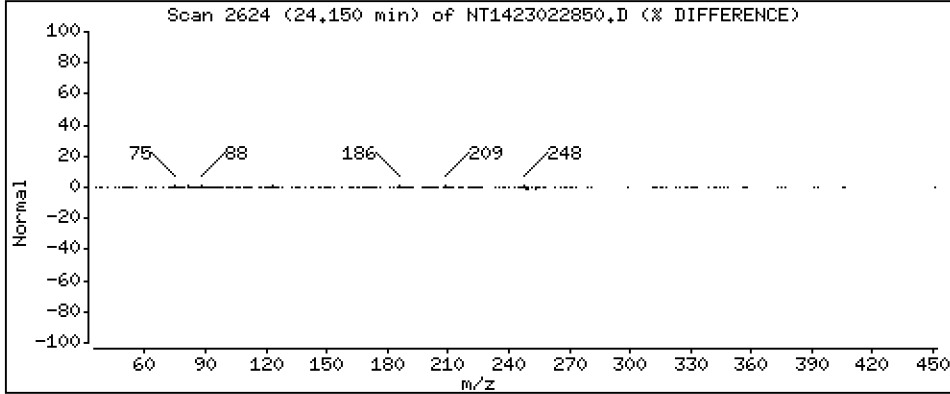
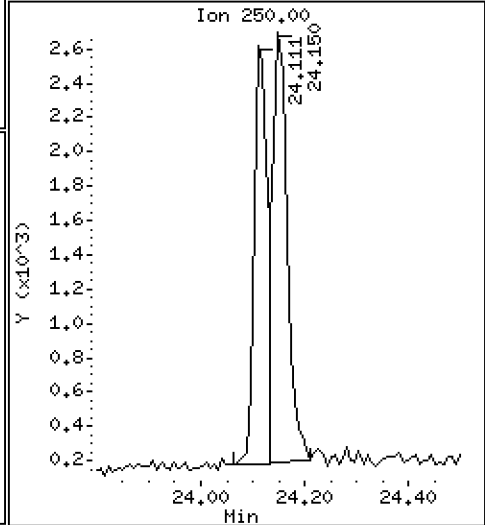
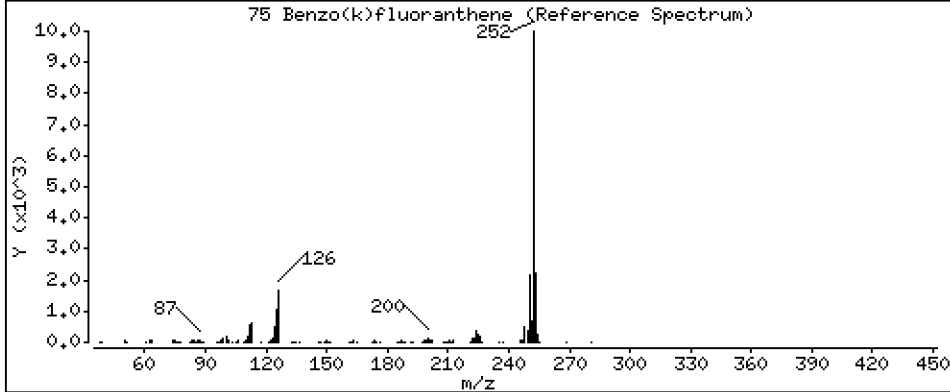
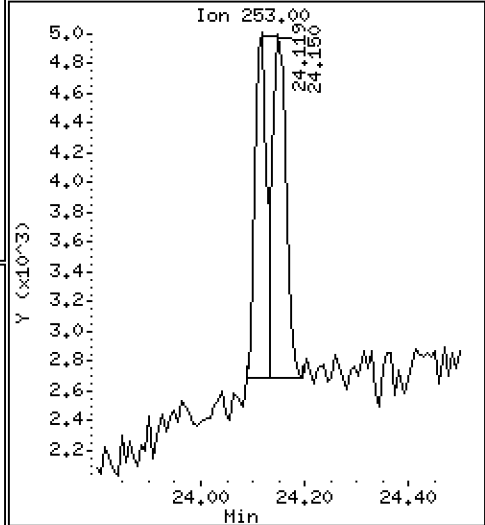
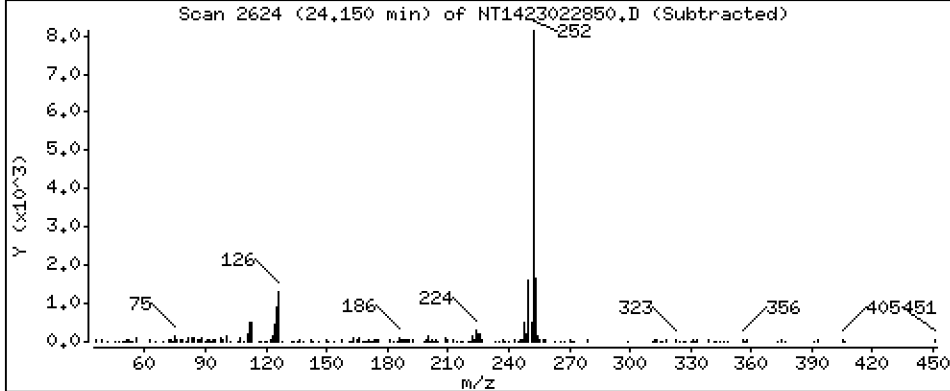
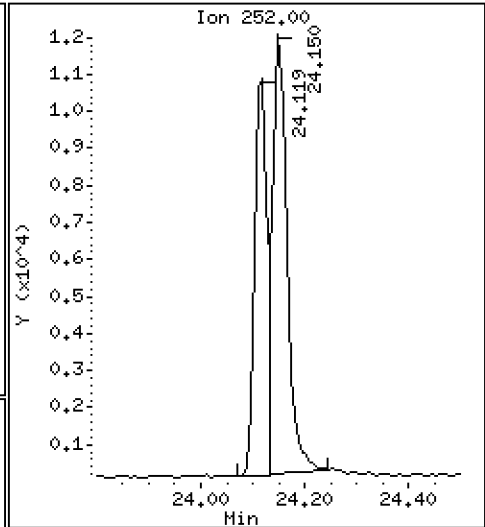
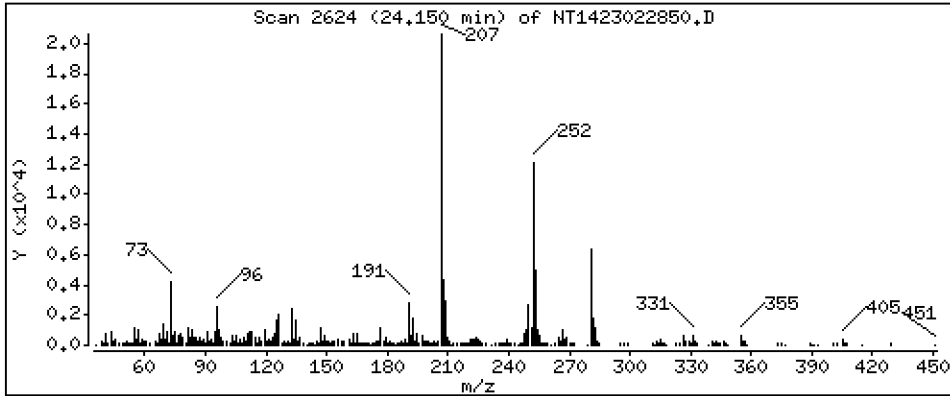
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2656 ug/mL





Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

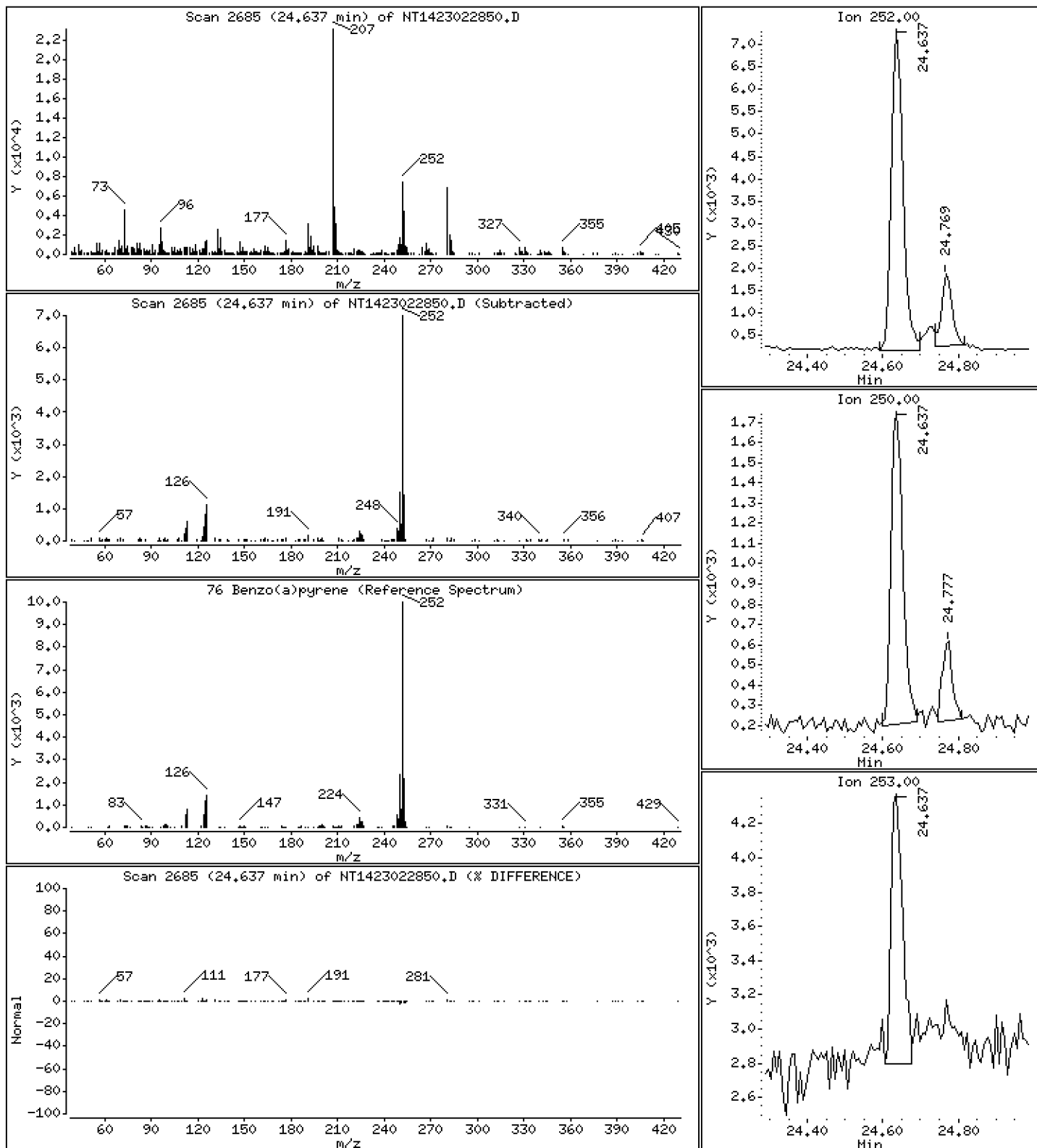
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2184 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

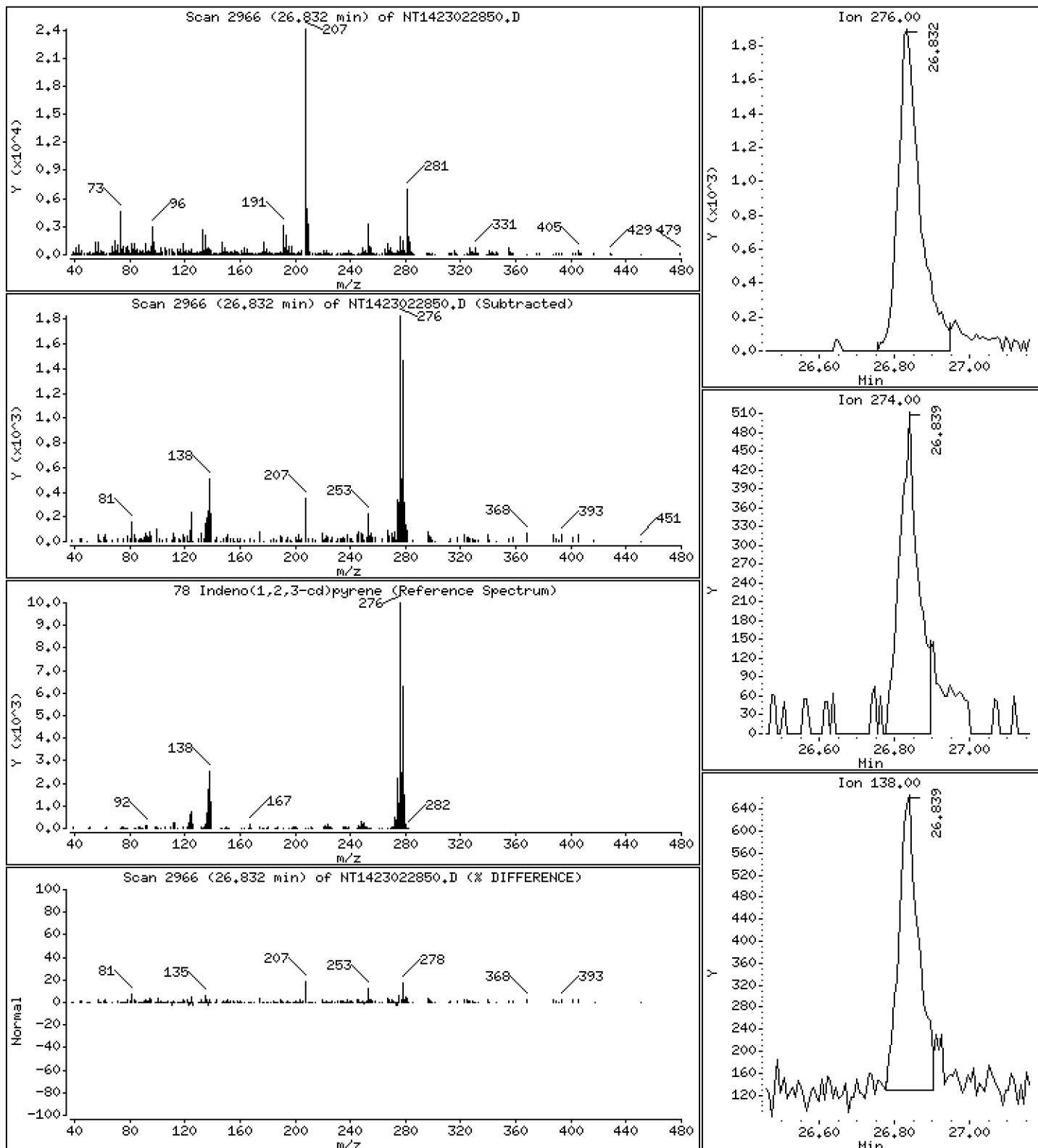
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,09029 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

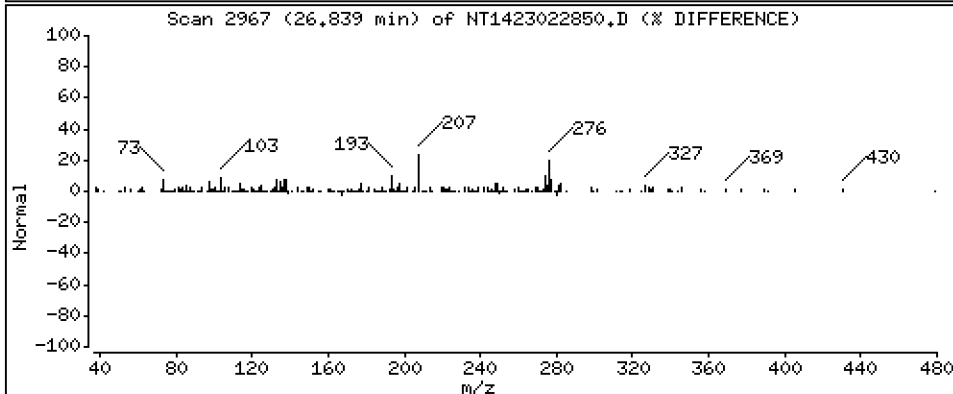
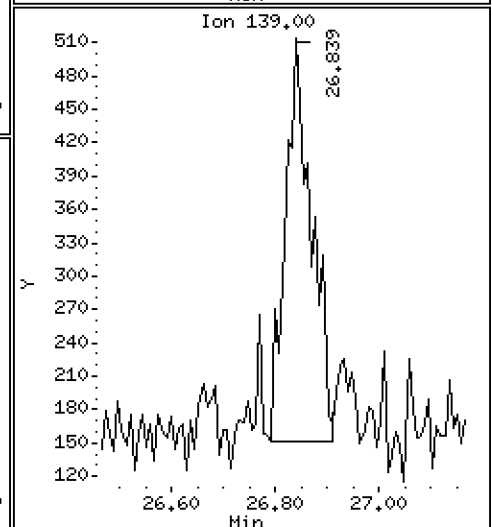
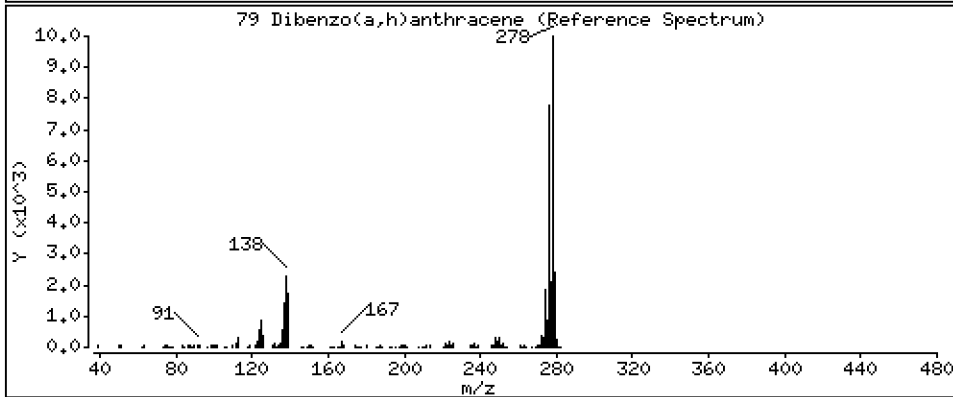
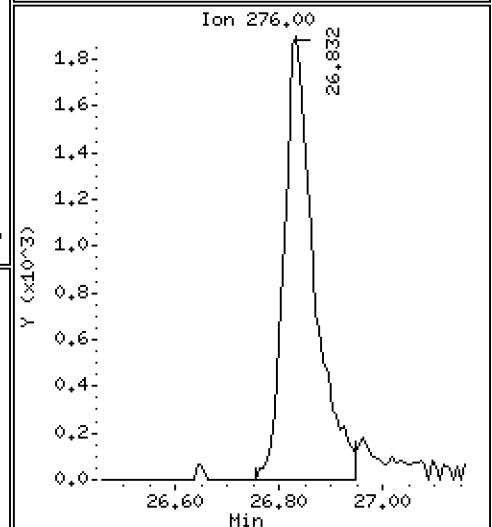
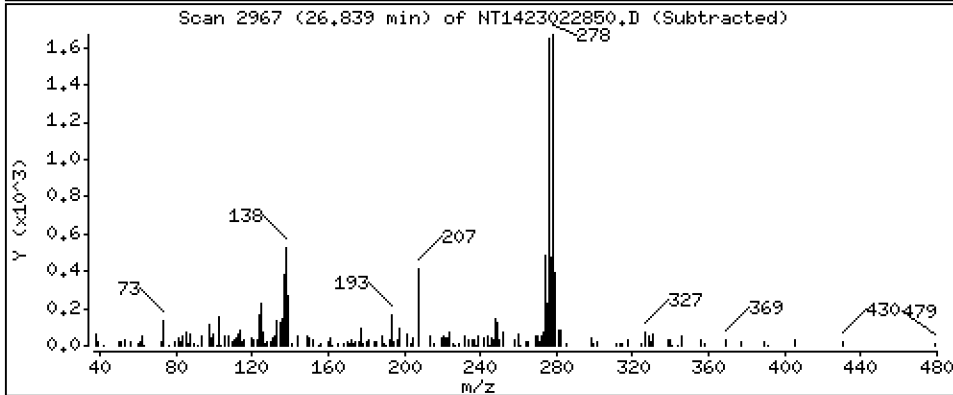
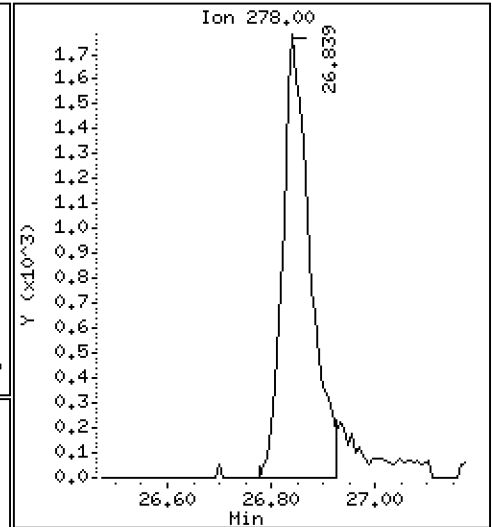
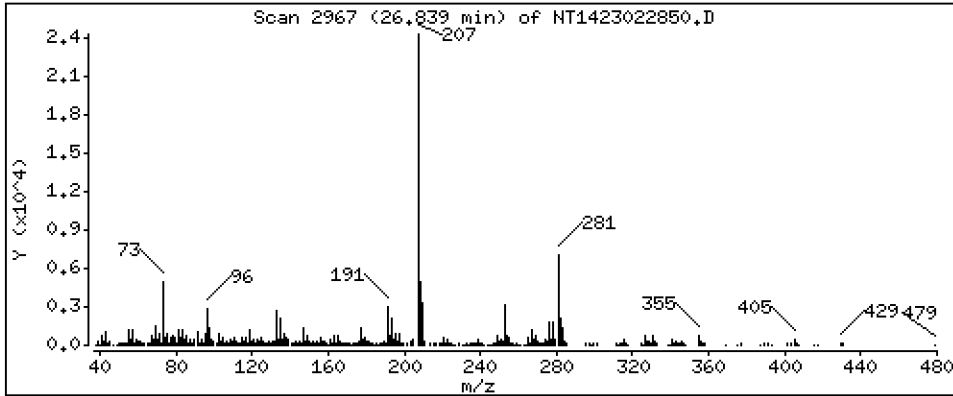
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 0.09126 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

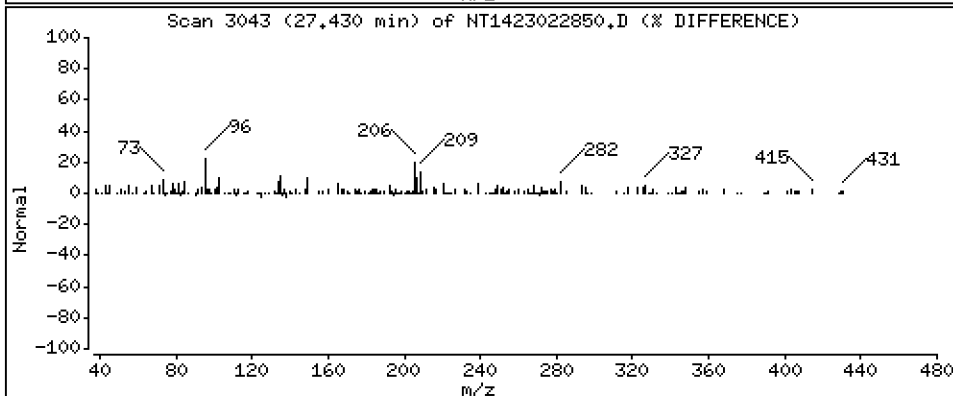
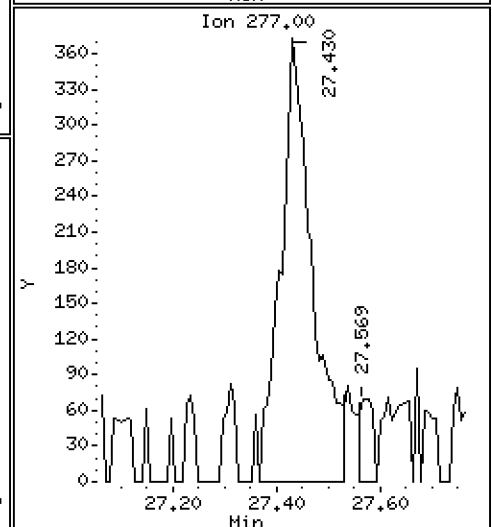
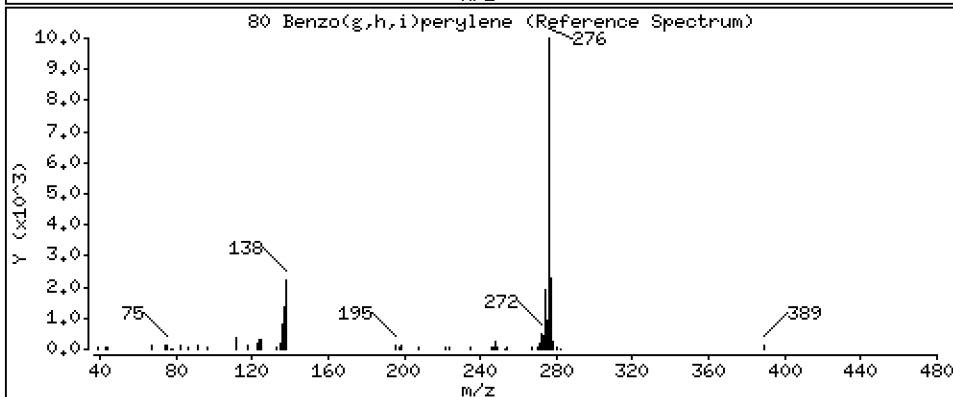
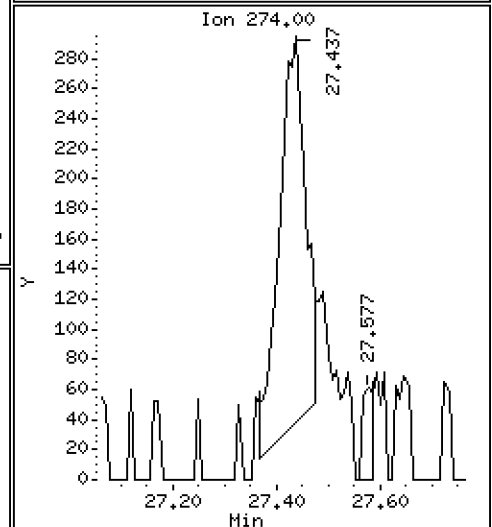
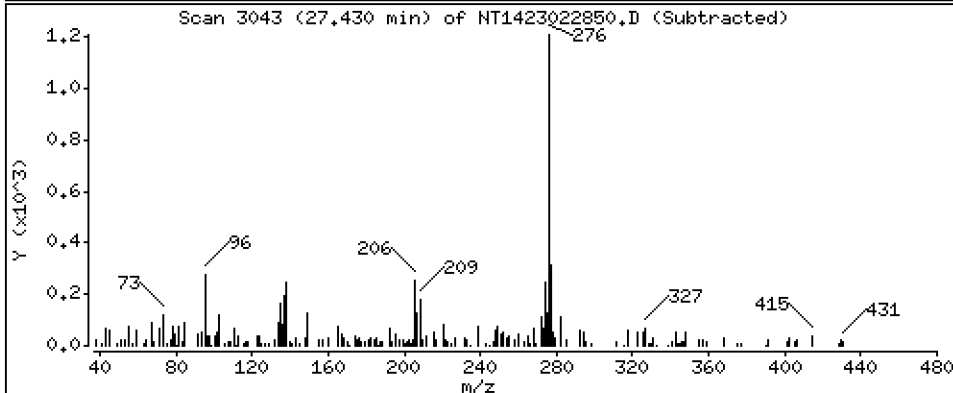
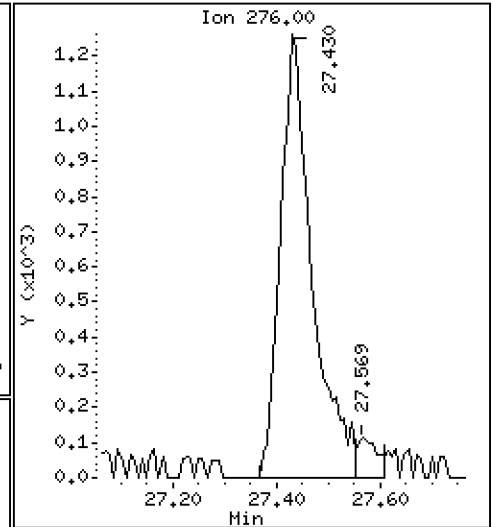
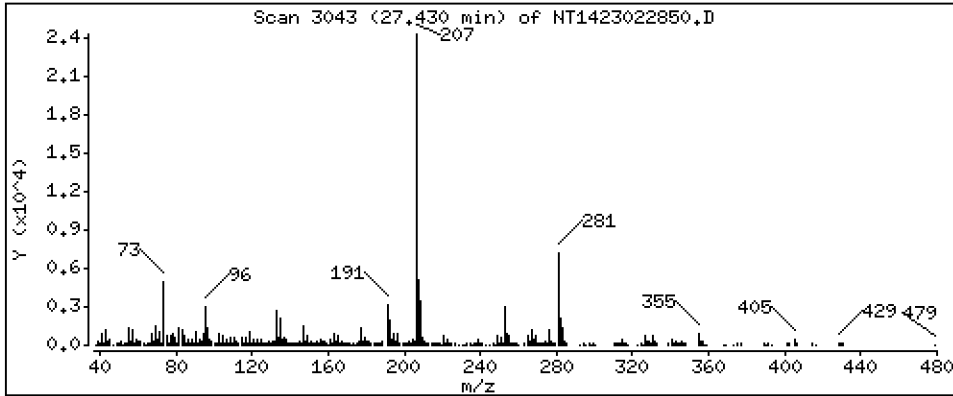
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,07207 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

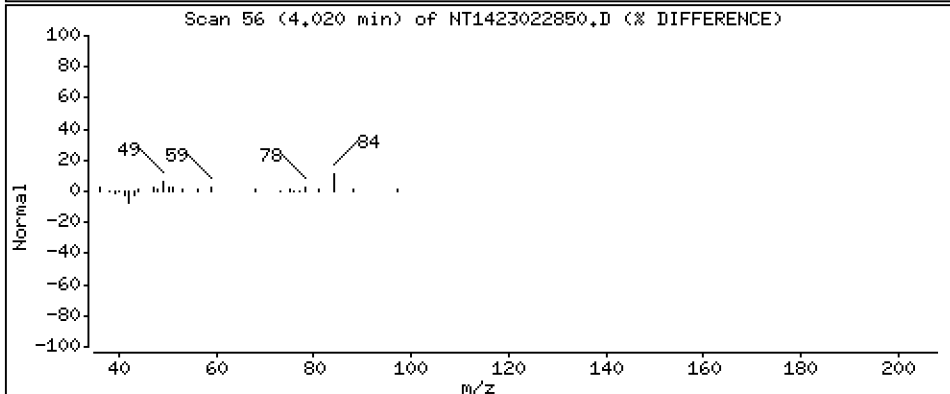
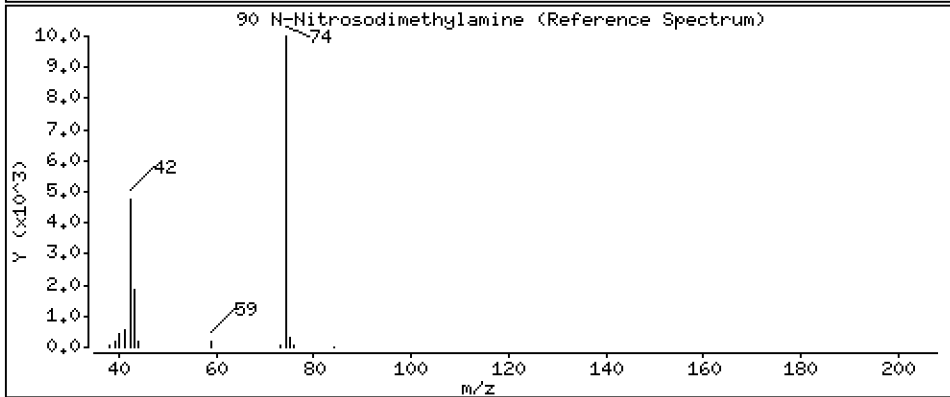
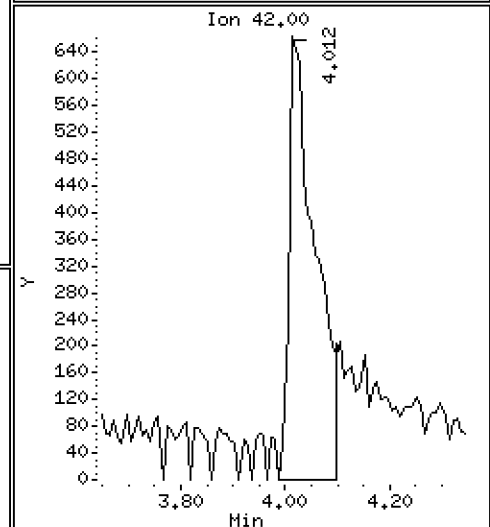
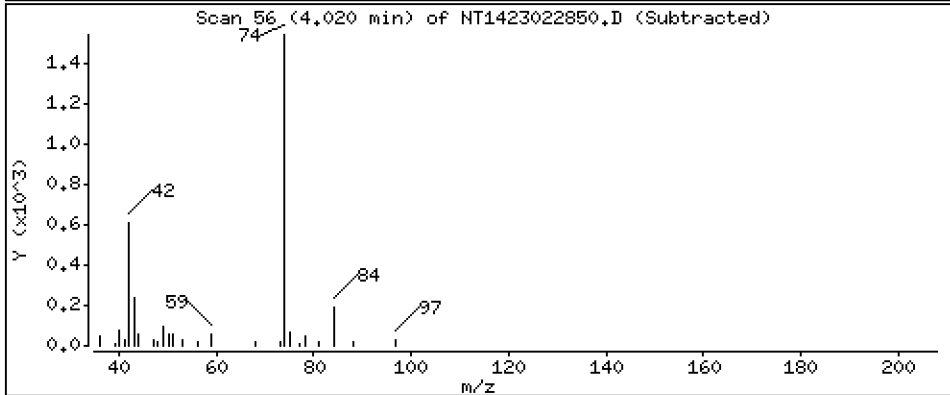
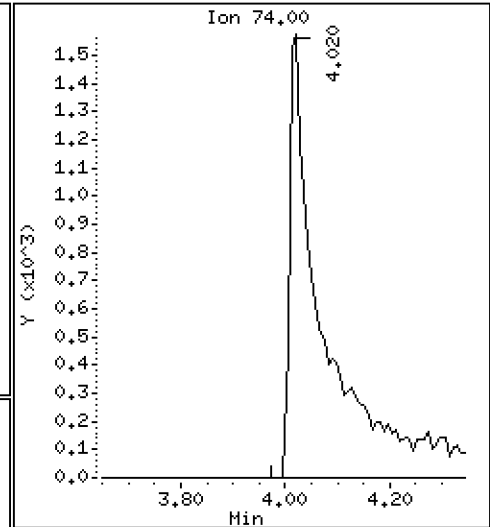
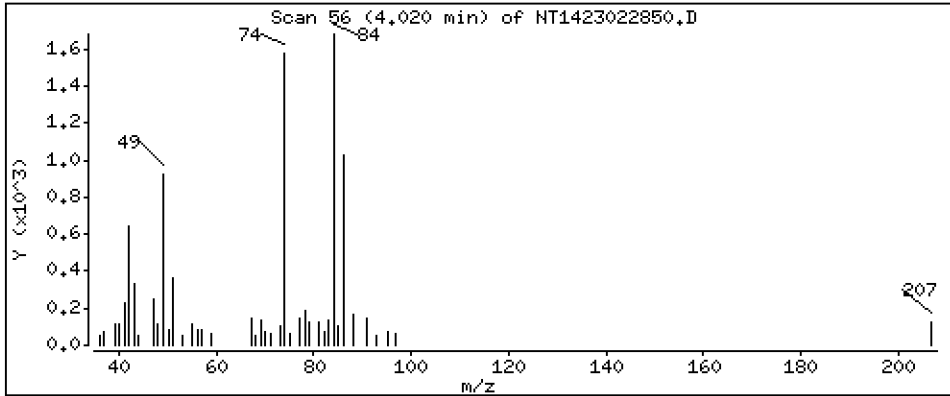
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,3584 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

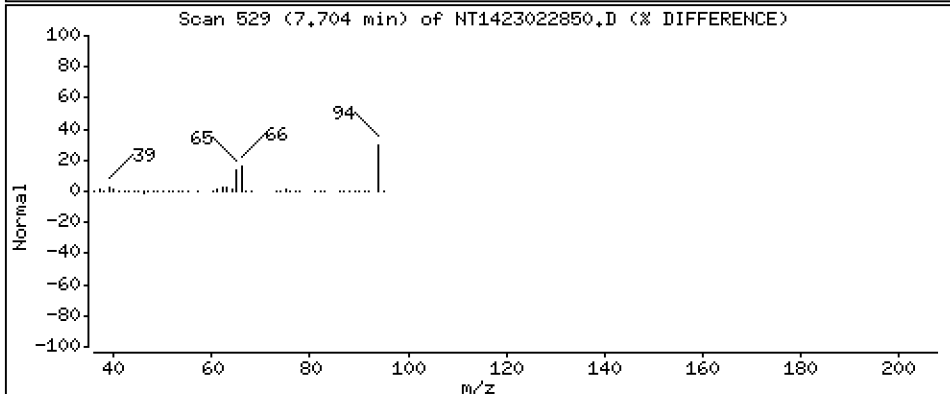
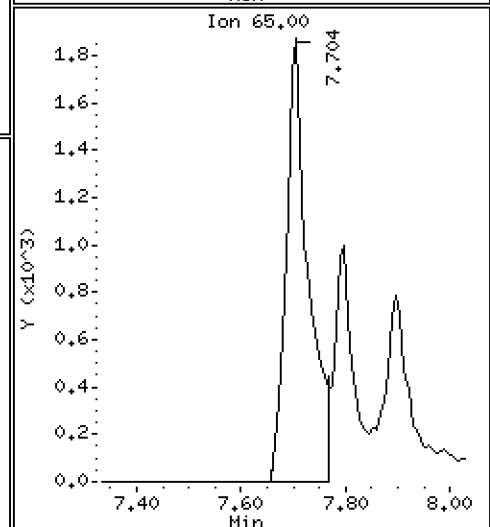
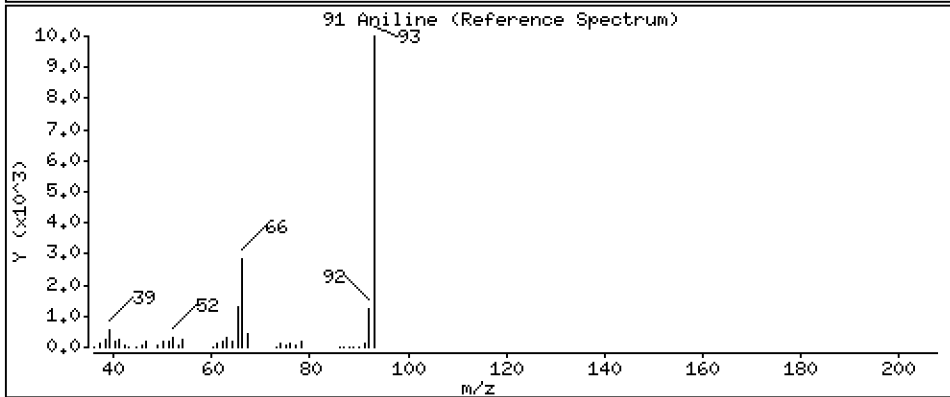
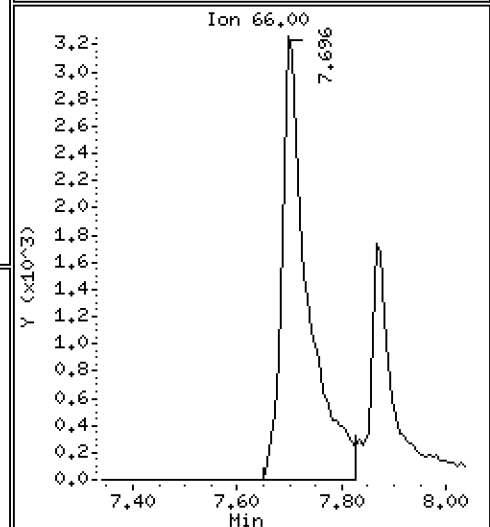
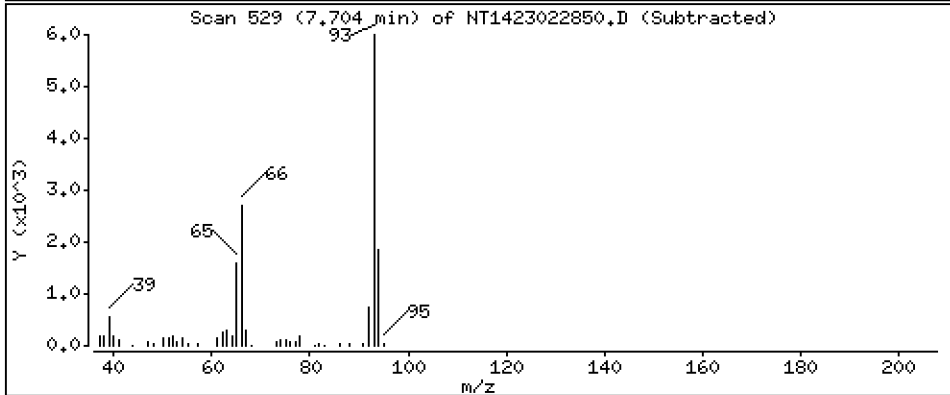
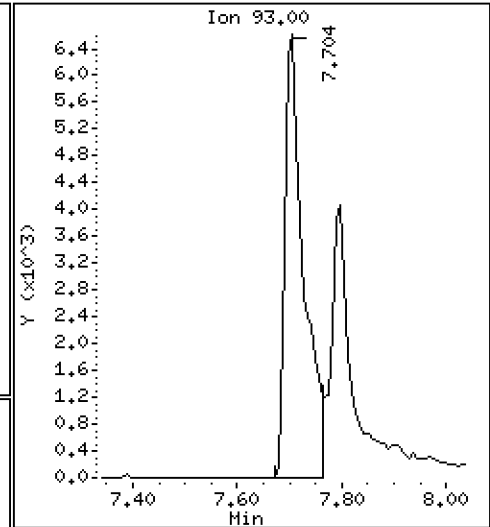
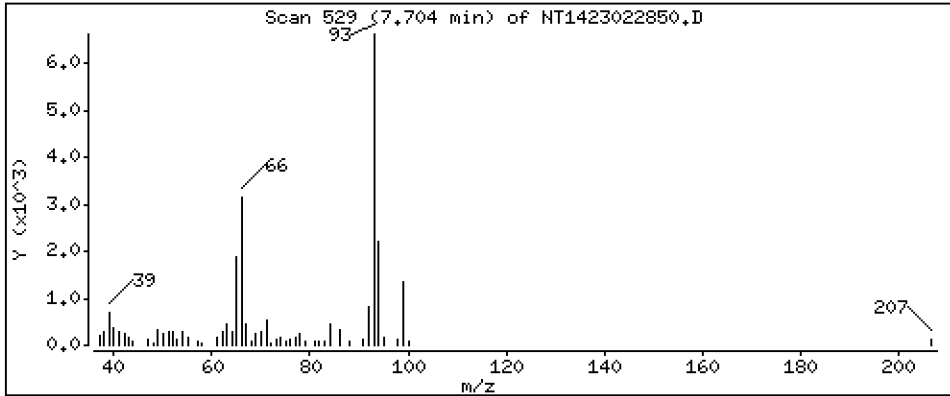
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.3036 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

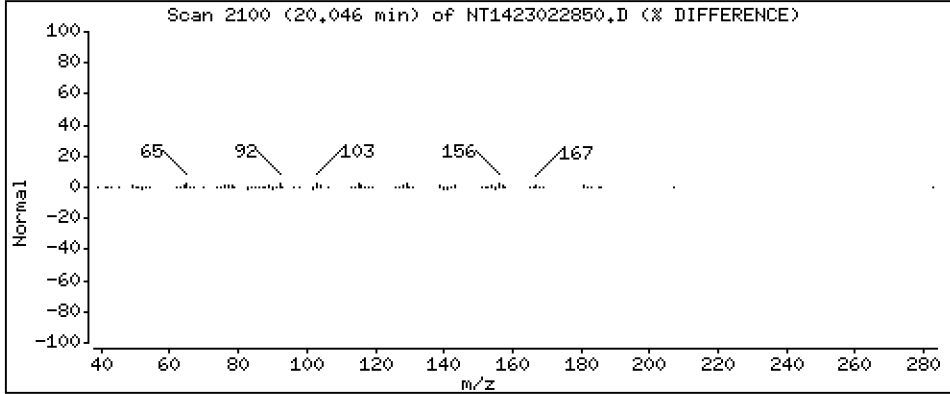
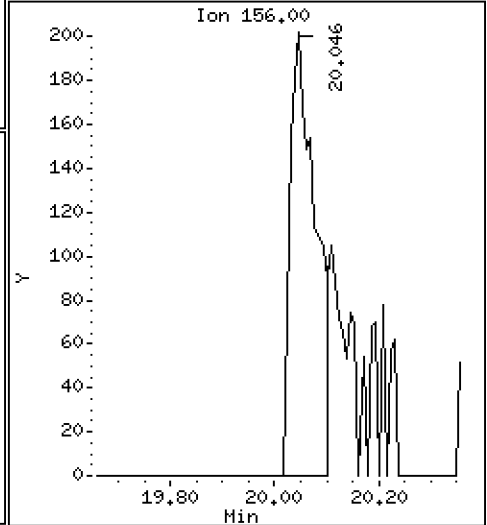
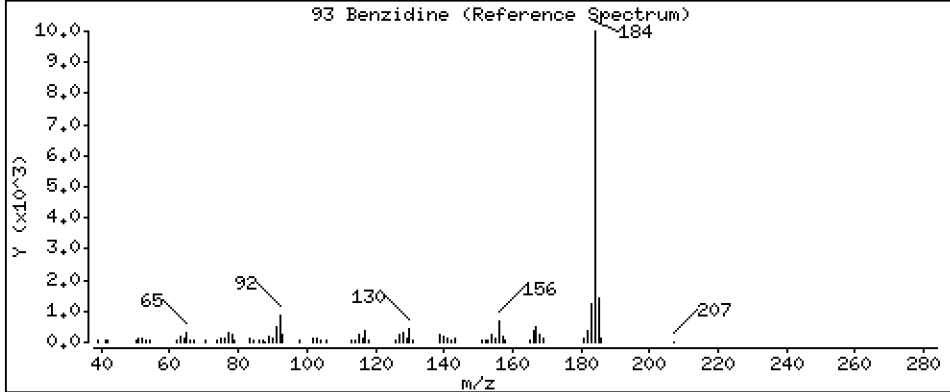
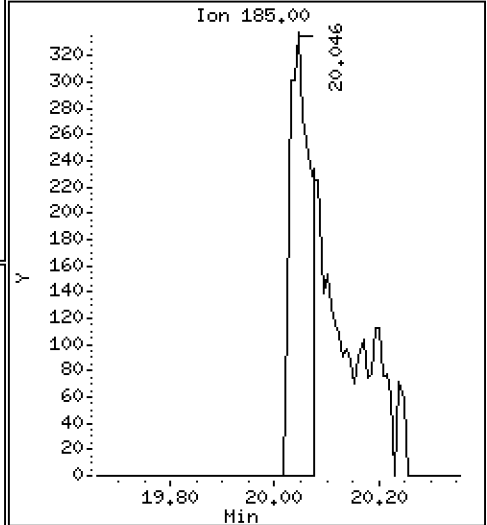
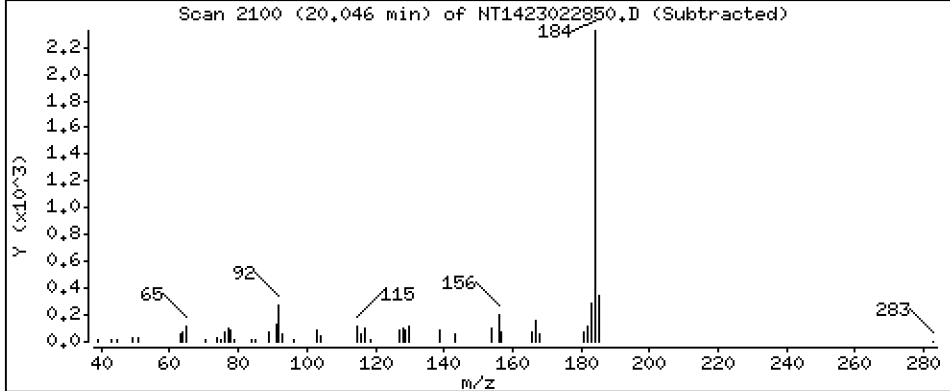
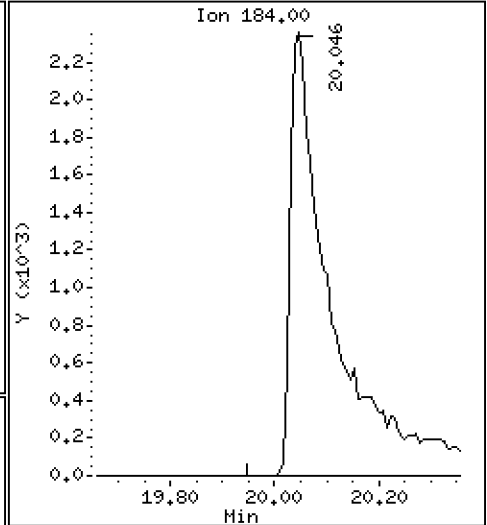
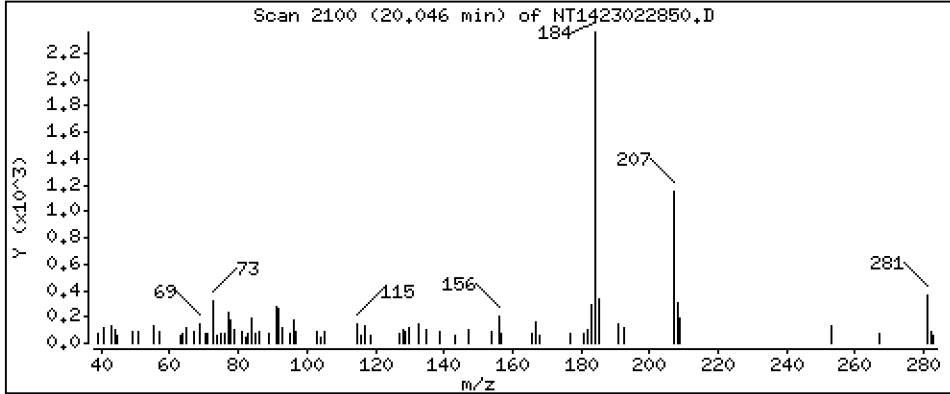
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,2674 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

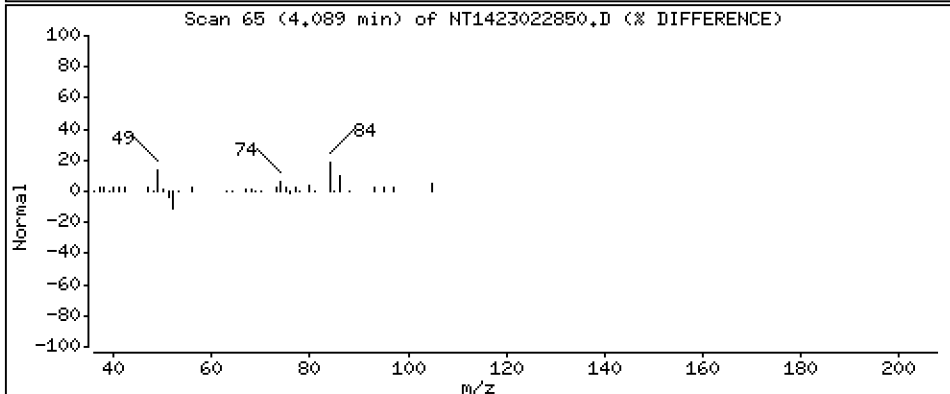
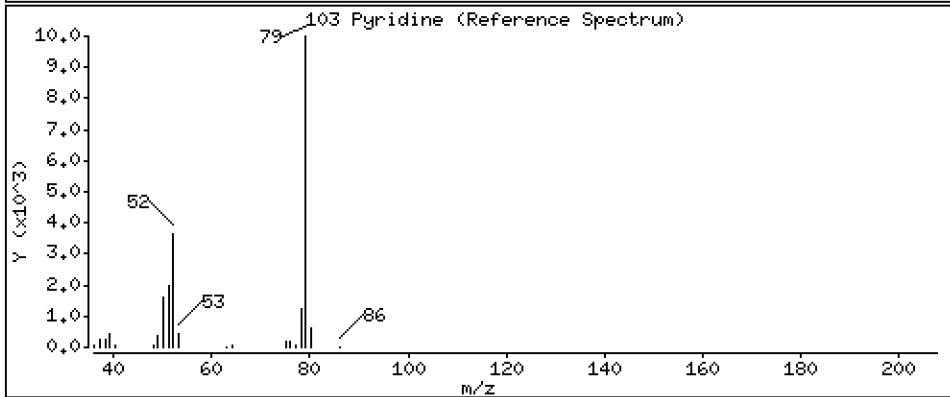
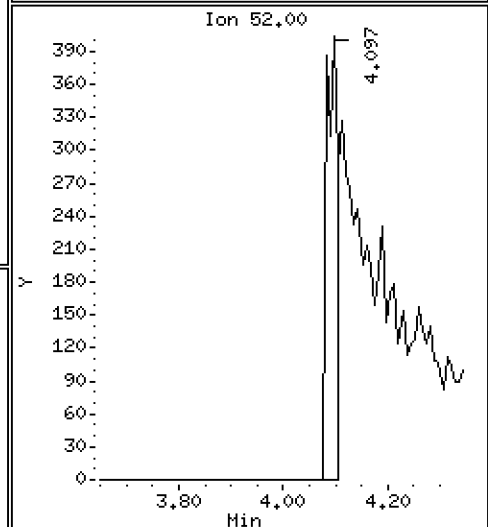
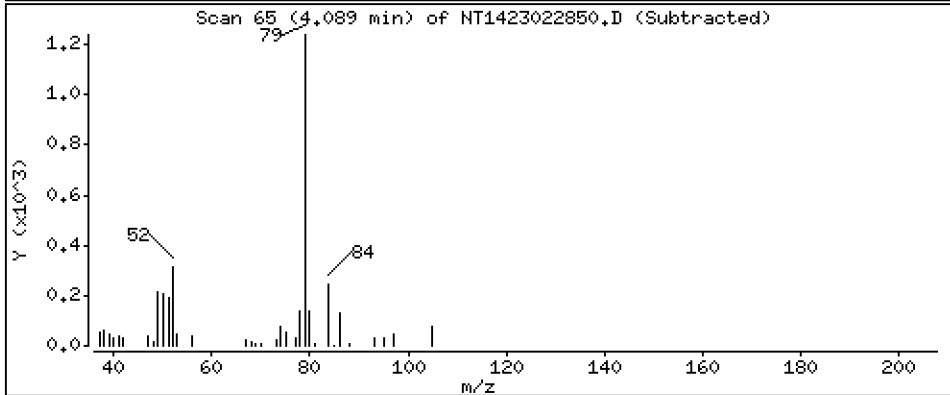
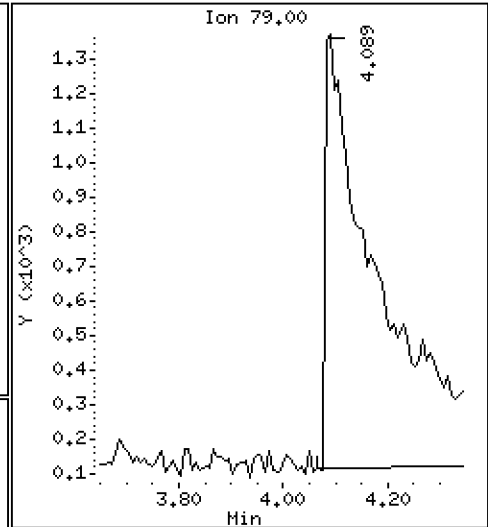
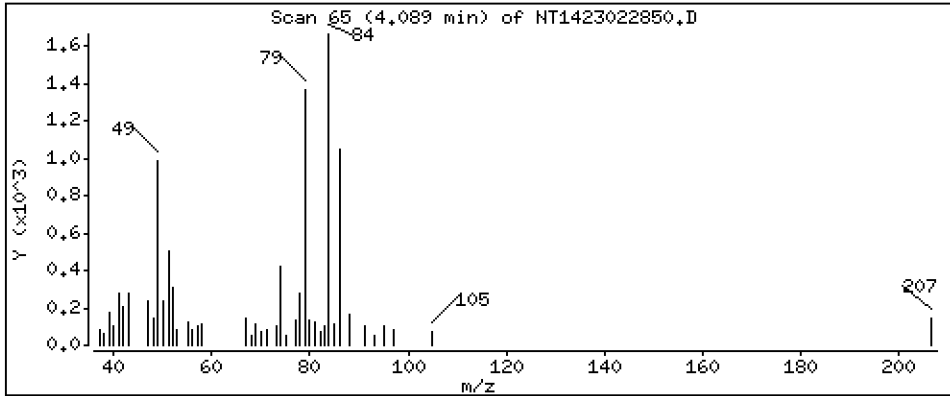
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,1595 ug/mL





Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

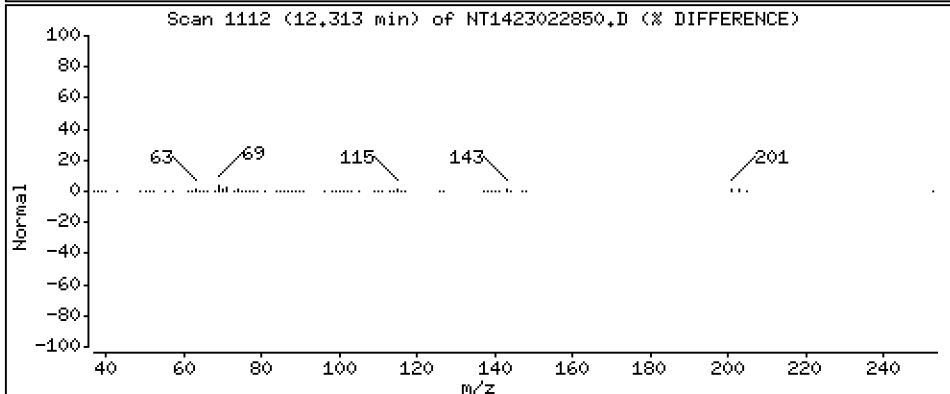
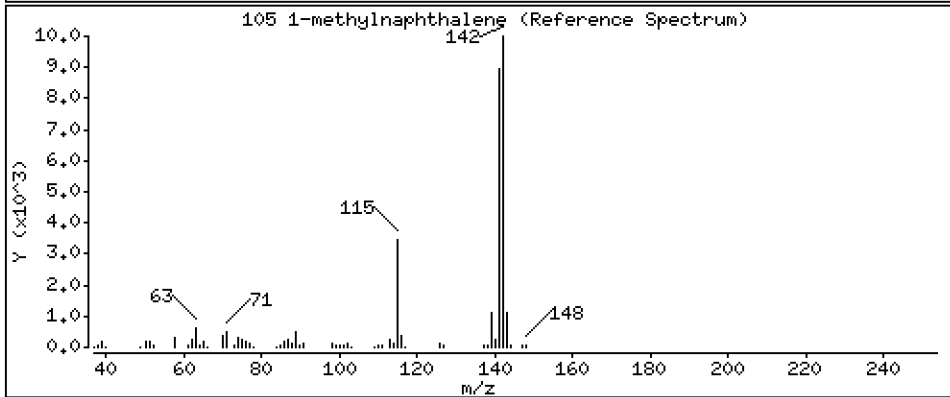
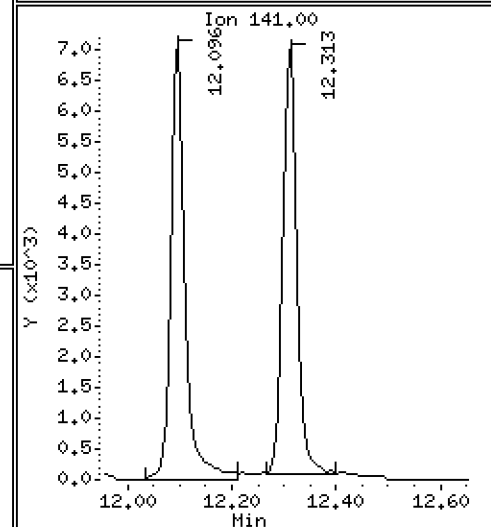
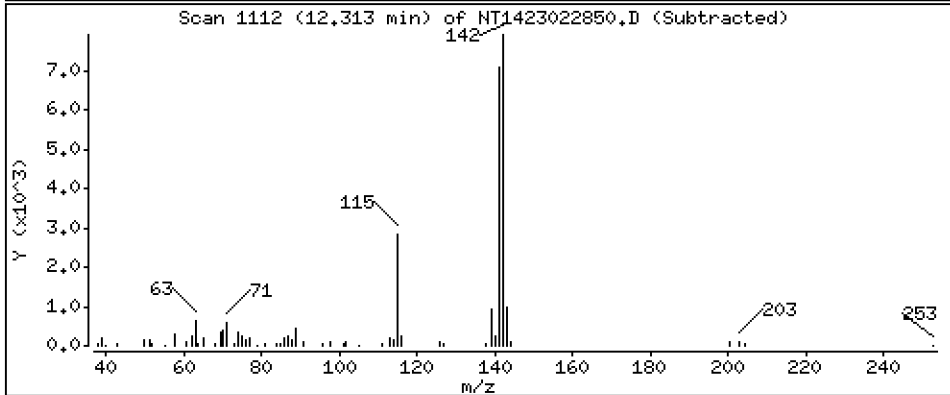
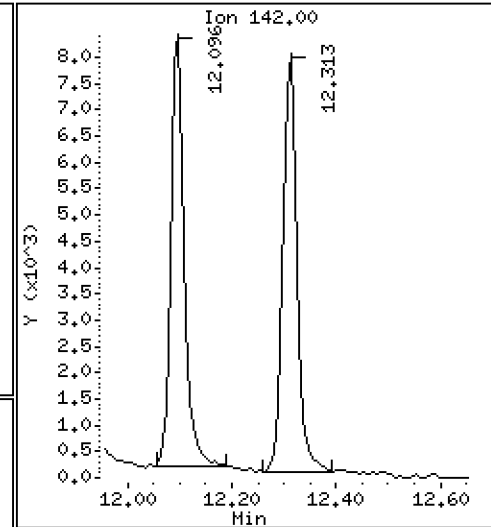
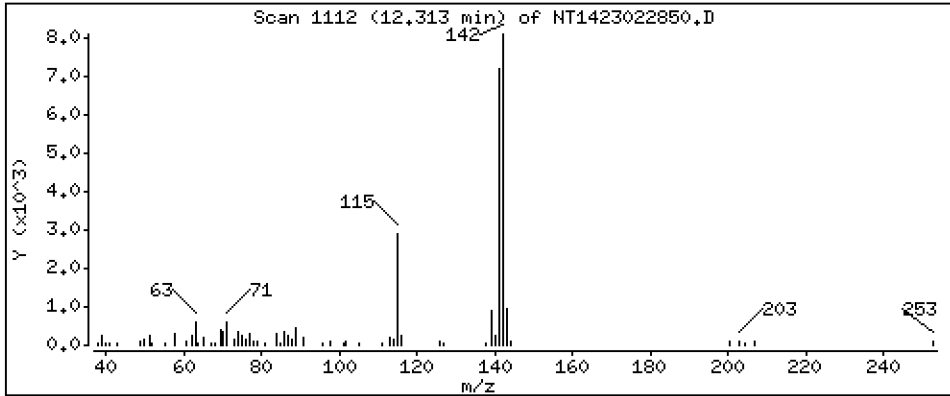
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,1941 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

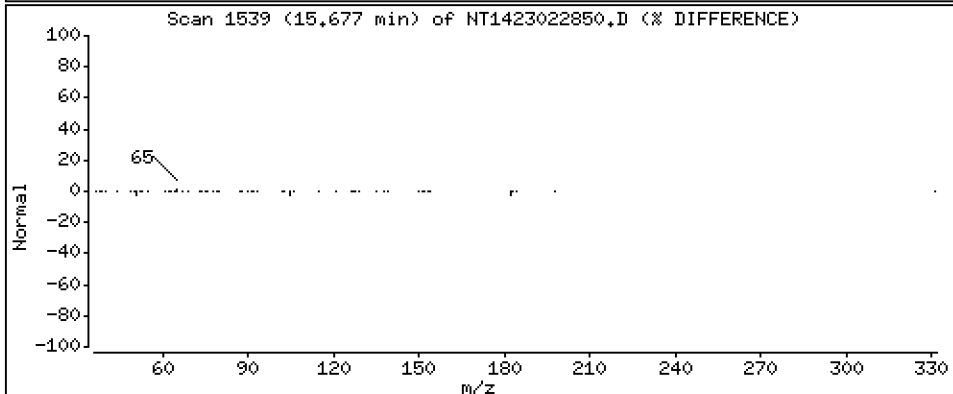
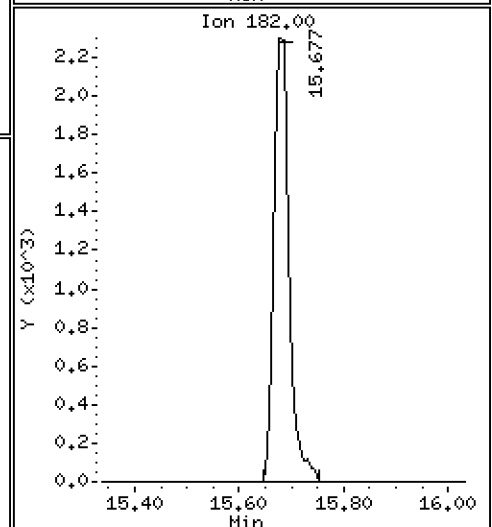
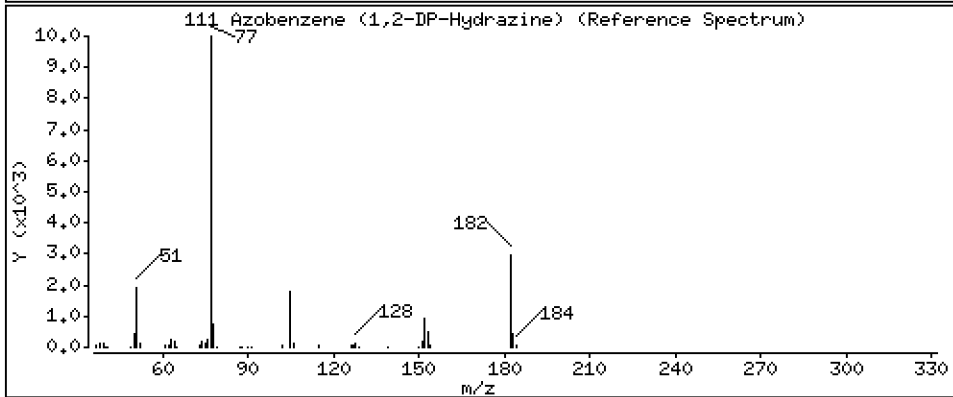
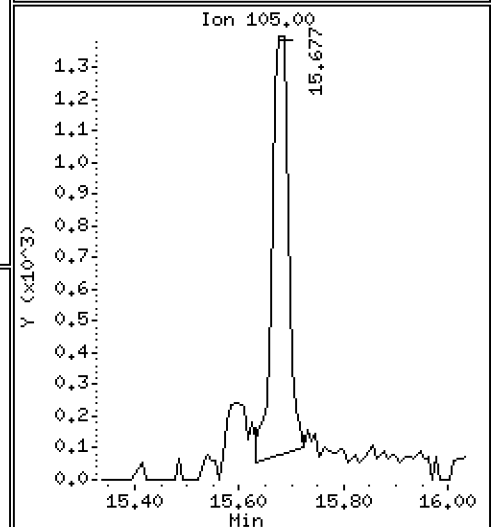
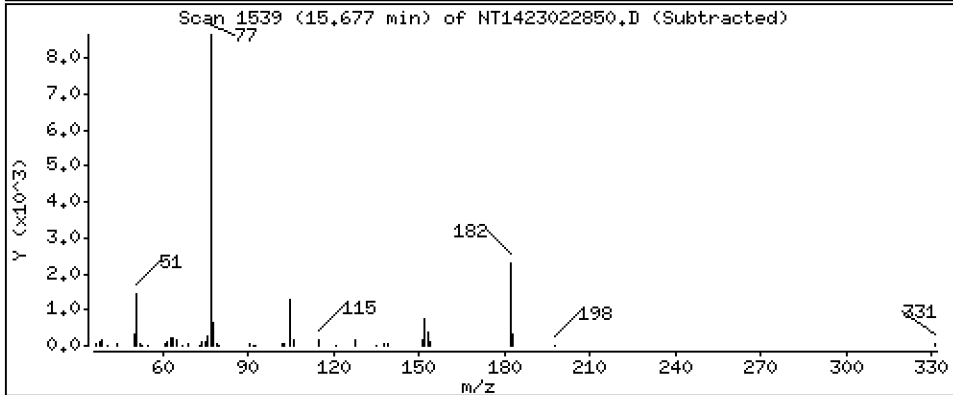
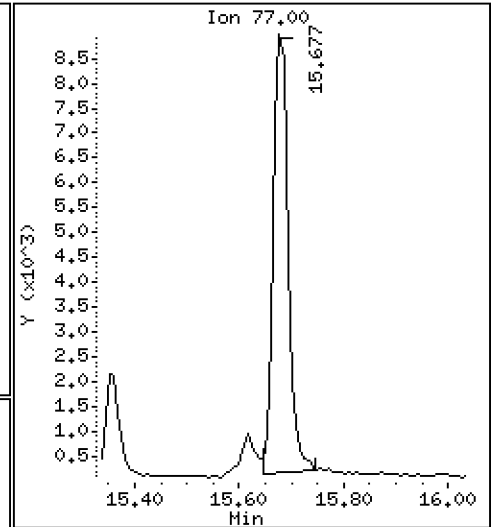
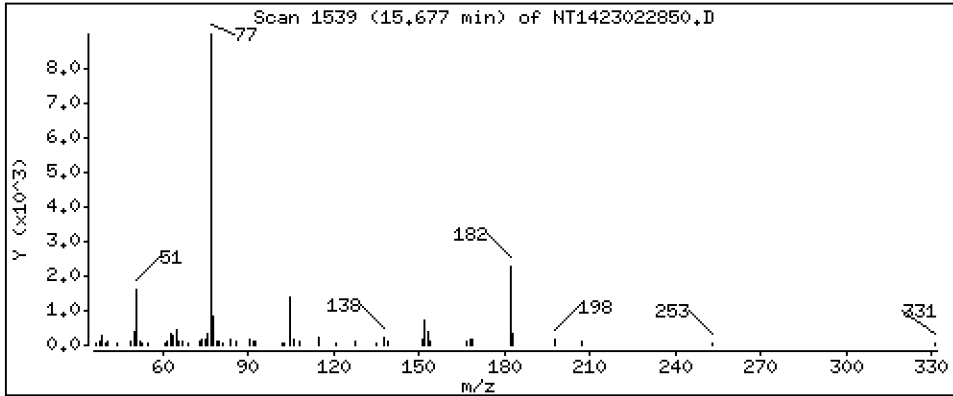
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,2145 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

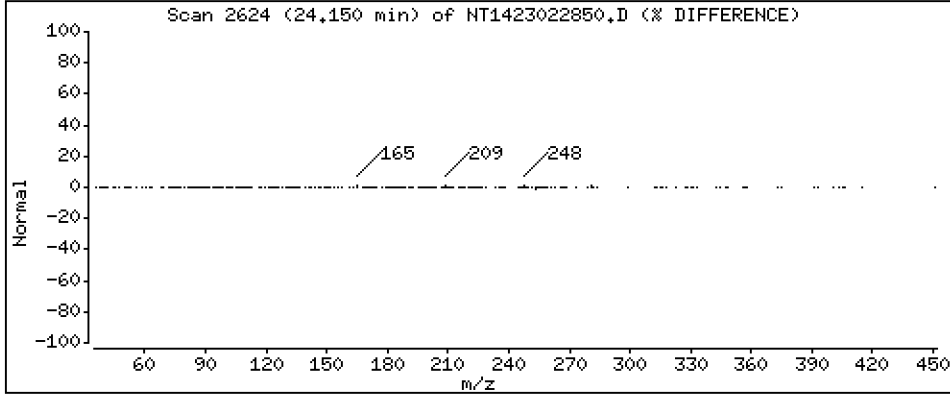
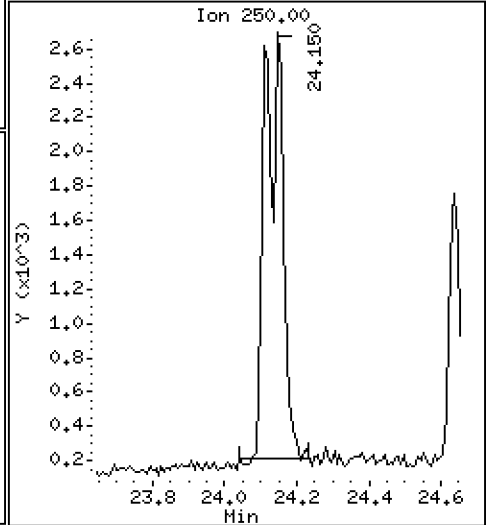
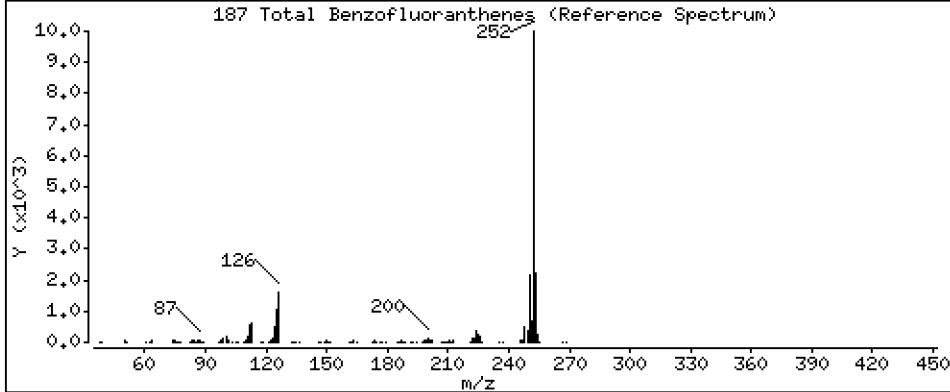
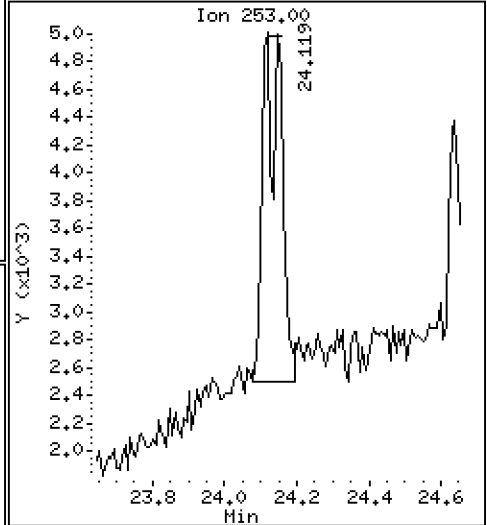
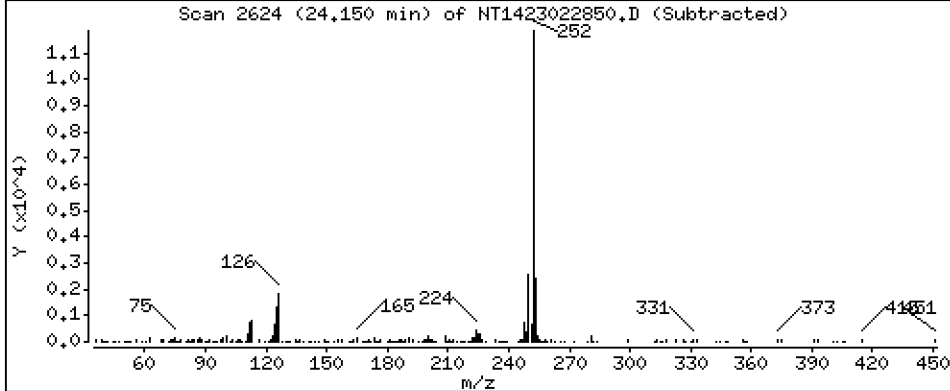
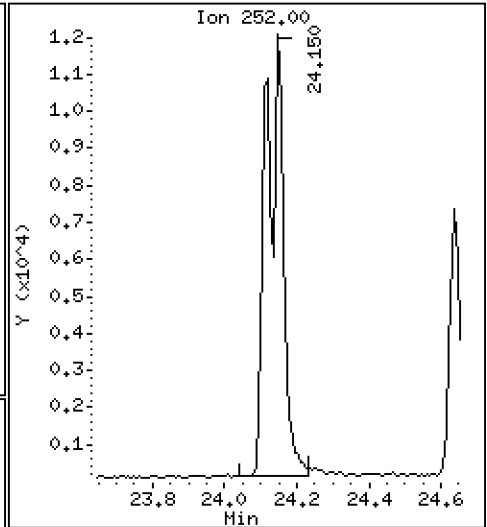
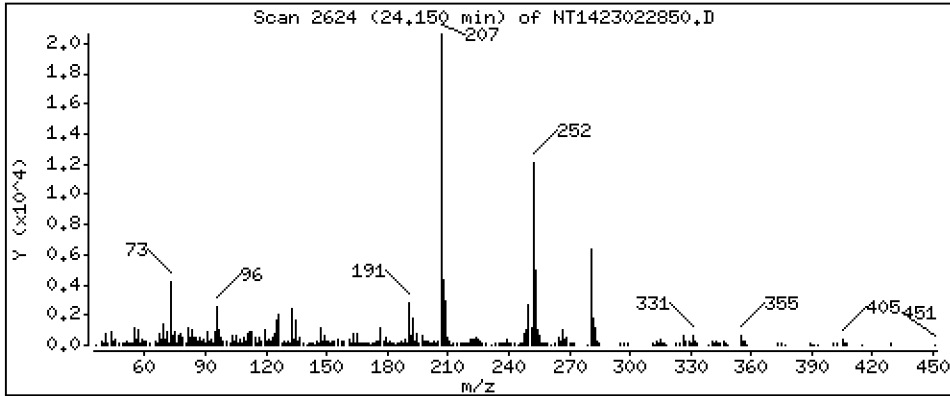
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,5206 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

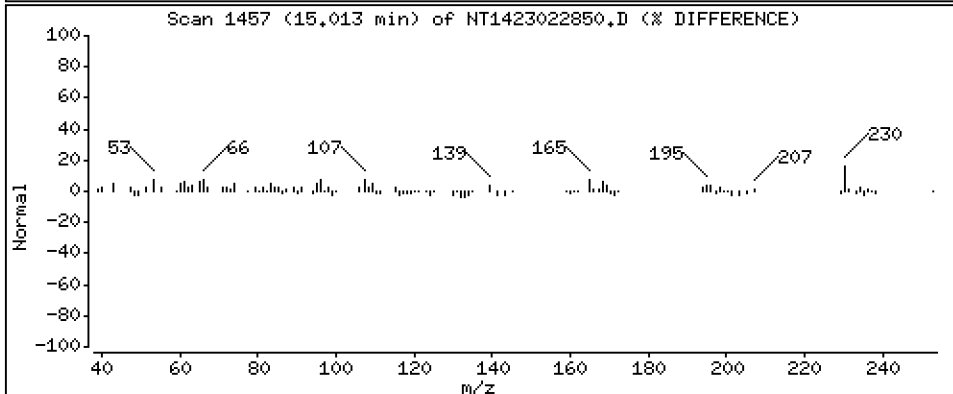
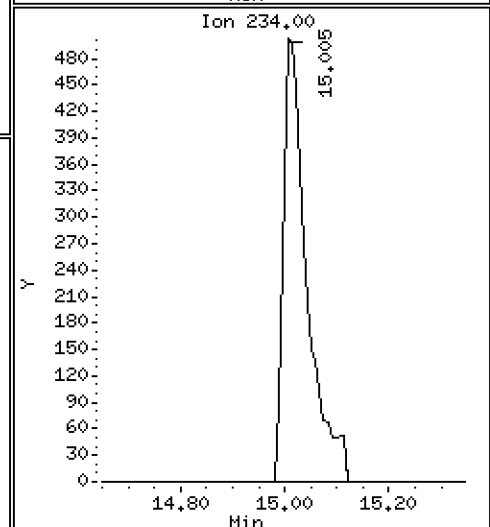
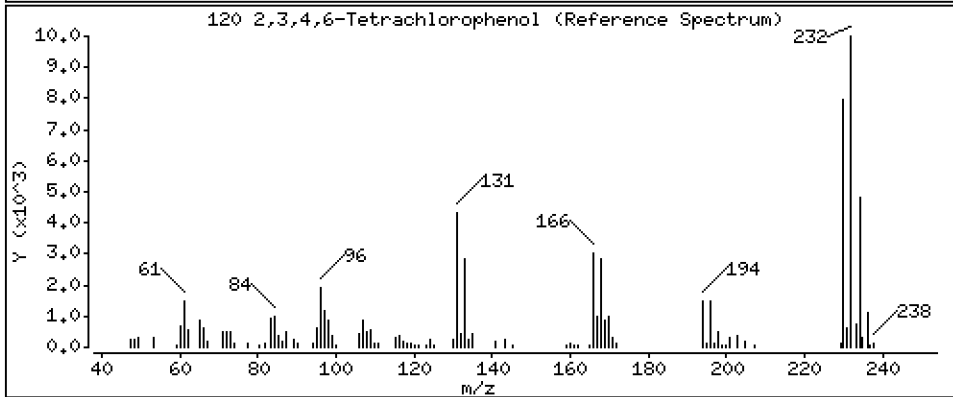
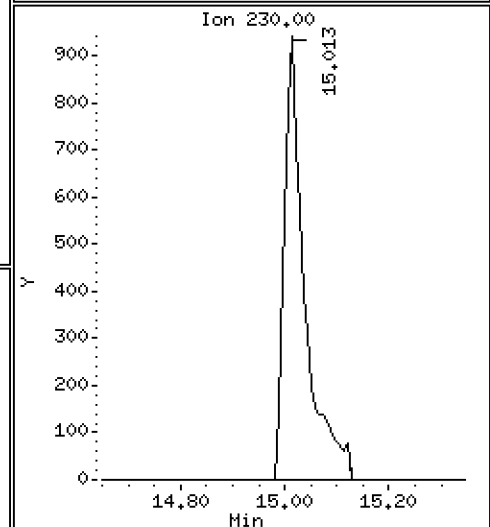
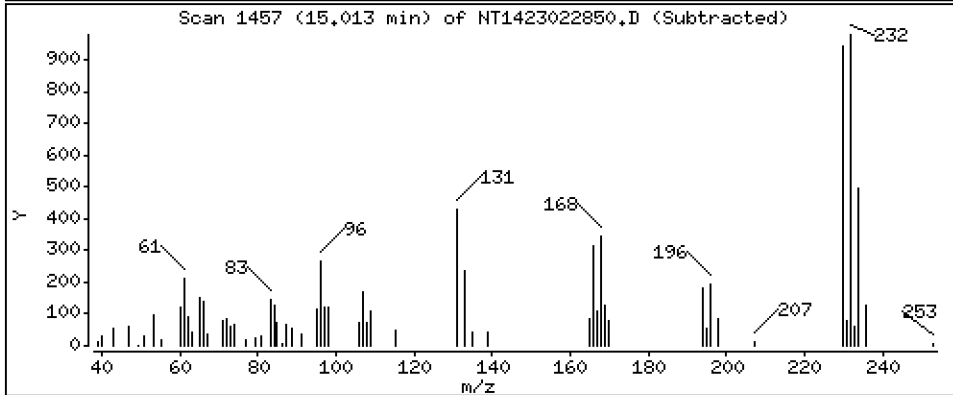
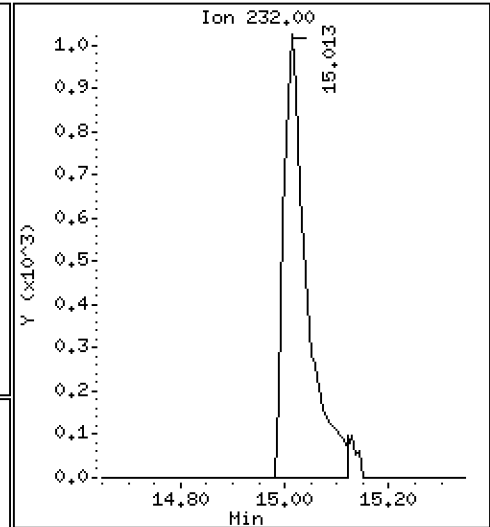
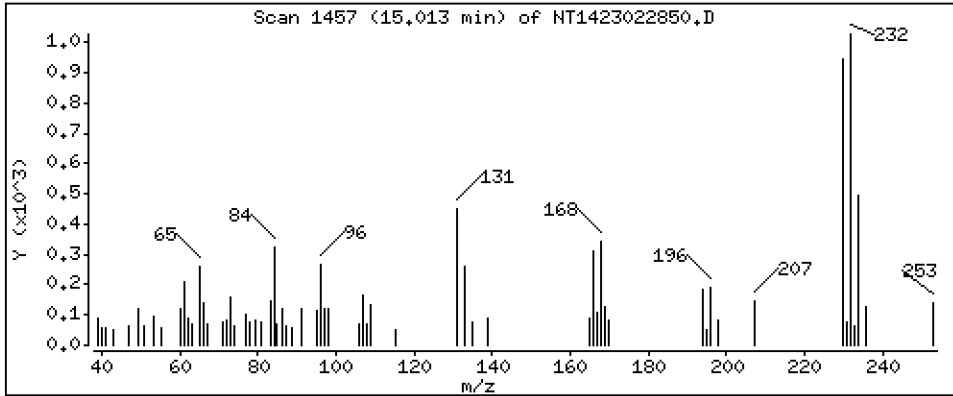
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1313 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022850.D  
 Lab Smp Id: SLB0374-LCV5  
 Inj Date : 02-MAR-2023 07:04 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-LCV5  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 11-Mar-2023 13:20 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 8  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |             |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-------------|
|                                 |       |     |                        |        |         |          | ON-COLUMN      | FINAL       |
|                                 | MASS  |     |                        |        |         |          | (ug/mL)        | (ug/mL)     |
| \$ 1 2-Fluorophenol             | 112   |     | 6.081                  | 6.066  | (0.741) | 6760     | 0.21593        | 0.2159      |
| \$ 2 Phenol-d5                  | 99    |     | 7.665                  | 7.650  | (0.934) | 10511    | 0.23647        | 0.2365      |
| 3 Phenol                        | 94    |     | 7.696                  | 7.673  | (0.938) | 8829     | 0.16648        | 0.1665      |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.874                  | 7.858  | (0.959) | 10636    | 0.28141        | 0.2814      |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.796                  | 7.789  | (0.950) | 8859     | 0.23657        | 0.2366      |
| 6 2-Chlorophenol                | 128   |     | 7.897                  | 7.889  | (0.962) | 8131     | 0.20814        | 0.2081      |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.145                  | 8.137  | (0.992) | 9218     | 0.21412        | 0.2141      |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.207                  | 8.207  | (1.000) | 115459   | 4.00000        |             |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.238                  | 8.238  | (1.004) | 8848     | 0.20795        | 0.2080      |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.564                  | 8.556  | (1.043) | 5515     | 0.19382        | 0.1938      |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.587                  | 8.579  | (1.046) | 8604     | 0.21089        | 0.2109      |
| 11 Benzyl alcohol               | 108   |     | 8.680                  | 8.517  | (1.058) | 1896     | 0.08203        | 0.08203 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.796                  | 8.797  | (1.072) | 2226     | 0.20231        | 0.2023      |
| 13 2-Methylphenol               | 108   |     | 8.781                  | 8.758  | (1.070) | 5822     | 0.17377        | 0.1738      |
| 17 Hexachloroethane             | 117   |     | 9.161                  | 9.162  | (1.116) | 2411     | 0.15089        | 0.1509      |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.060                  | 9.061  | (1.104) | 5410     | 0.21207        | 0.2121      |
| 15 4-Methylphenol               | 108   |     | 9.068                  | 9.037  | (1.105) | 5461     | 0.13986        | 0.1399      |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.309                  | 9.293  | (0.873) | 8210     | 0.20476        | 0.2048      |
| 19 Nitrobenzene                 | 77    |     | 9.340                  | 9.332  | (0.876) | 7891     | 0.20481        | 0.2048      |
| 20 Isophorone                   | 82    |     | 9.782                  | 9.782  | (0.918) | 9880     | 0.16404        | 0.1640      |
| 21 2-Nitrophenol                | 139   |     | 9.968                  | 9.953  | (0.935) | 2607     | 0.13075        | 0.1308      |
| 22 2,4-Dimethylphenol           | 107   |     | 10.069                 | 10.054 | (0.945) | 14284    | 0.40666        | 0.4067      |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.240                 | 10.232 | (0.961) | 7037     | 0.18167        | 0.1817      |
| 24 Benzoic acid                 | 105   |     | Compound Not Detected. |        |         |          |                |             |
| 25 2,4-Dichlorophenol           | 162   |     | 10.456                 | 10.418 | (0.981) | 11736    | 0.32933        | 0.3293 (M)  |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.588                 | 10.580 | (0.993) | 7761     | 0.19551        | 0.1955      |
| * 27 Naphthalene-d8             | 136   |     | 10.657                 | 10.665 | (1.000) | 409877   | 4.00000        |             |
| 28 Naphthalene                  | 128   |     | 10.703                 | 10.704 | (1.004) | 23851    | 0.21816        | 0.2182      |
| 29 4-Chloroaniline              | 127   |     | 10.889                 | 10.866 | (1.022) | 16021    | 0.34260        | 0.3426 (M)  |
| 30 Hexachlorobutadiene          | 225   |     | 11.074                 | 11.074 | (1.039) | 4389     | 0.18119        | 0.1812      |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.887                 | 11.856 | (1.115) | 10848    | 0.34311        | 0.3431      |
| 32 2-Methylnaphthalene          | 142   |     | 12.096                 | 12.088 | (1.135) | 14942    | 0.18455        | 0.1846      |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                |             |

| Compounds                         | QUANT SIG |                        |        |         |          | CONCENTRATIONS       |                  |  |
|-----------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|--|
|                                   | MASS      | RT                     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |  |
| 34 2,4,6-Trichlorophenol          | 196       | 12.746                 | 12.731 | (0.895) | 7293     | 0.32414              | 0.3241           |  |
| 35 2,4,5-Trichlorophenol          | 196       | 12.839                 | 12.808 | (0.901) | 10192    | 0.41896              | 0.4190 (M)       |  |
| § 36 2-Fluorobiphenyl             | 172       | 12.885                 | 12.885 | (0.904) | 18644    | 0.20797              | 0.2080           |  |
| 37 2-Chloronaphthalene            | 162       | 13.079                 | 13.071 | (0.918) | 14974    | 0.20837              | 0.2084           |  |
| 38 2-Nitroaniline                 | 65        | 13.380                 | 13.365 | (0.939) | 6886     | 0.36740              | 0.3674           |  |
| 39 Dimethylphthalate              | 163       | 13.806                 | 13.806 | (0.969) | 15187    | 0.20963              | 0.2096           |  |
| 40 Acenaphthylene                 | 152       | 13.930                 | 13.930 | (0.978) | 23028    | 0.21838              | 0.2184           |  |
| 41 2,6-Dinitrotoluene             | 165       | 13.938                 | 13.938 | (0.978) | 6188     | 0.36449              | 0.3645           |  |
| * 42 Acenaphthene-d10             | 164       | 14.247                 | 14.247 | (1.000) | 230328   | 4.00000              |                  |  |
| 43 3-Nitroaniline                 | 138       | 14.255                 | 14.216 | (1.001) | 5369     | 0.30856              | 0.3086 (M)       |  |
| 44 Acenaphthene                   | 153       | 14.309                 | 14.309 | (1.004) | 14213    | 0.21052              | 0.2105           |  |
| 45 2,4-Dinitrophenol              | 184       | Compound Not Detected. |        |         |          |                      |                  |  |
| 46 Dibenzofuran                   | 168       | 14.641                 | 14.642 | (1.028) | 21500    | 0.20014              | 0.2001           |  |
| 47 4-Nitrophenol                  | 109       | Compound Not Detected. |        |         |          |                      |                  |  |
| 48 2,4-Dinitrotoluene             | 165       | 14.742                 | 14.734 | (1.035) | 7190     | 0.29419              | 0.2942           |  |
| 50 Diethylphthalate               | 149       | 15.252                 | 15.260 | (1.071) | 14688    | 0.21680              | 0.2168           |  |
| 49 Fluorene                       | 166       | 15.345                 | 15.345 | (1.077) | 19196    | 0.21208              | 0.2121           |  |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.361                 | 15.361 | (1.078) | 9443     | 0.19608              | 0.1961           |  |
| 52 4-Nitroaniline                 | 138       | 15.538                 | 15.484 | (1.091) | 5026     | 0.29139              | 0.2914 (M)       |  |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.584                 | 15.569 | (0.903) | 2288     | 0.16480              | 0.1648 (M)       |  |
| 54 N-Nitrosodiphenylamine         | 169       | 15.615                 | 15.615 | (0.905) | 11367    | 0.21653              | 0.2165           |  |
| § 55 2,4,6-Tribromophenol         | 330       | 15.893                 | 15.885 | (1.116) | 2778     | 0.22458              | 0.2246           |  |
| 56 4-Bromophenyl-phenylether      | 248       | 16.348                 | 16.348 | (0.948) | 4444     | 0.19255              | 0.1925           |  |
| 57 Hexachlorobenzene              | 284       | 16.641                 | 16.642 | (0.965) | 5111     | 0.20142              | 0.2014           |  |
| 58 Pentachlorophenol              | 266       | 17.052                 | 17.013 | (0.988) | 1731     | 0.14503              | 0.1450 (M)       |  |
| * 59 Phenanthrene-d10             | 188       | 17.253                 | 17.253 | (1.000) | 417754   | 4.00000              |                  |  |
| 60 Phenanthrene                   | 178       | 17.299                 | 17.299 | (1.003) | 23378    | 0.21036              | 0.2104           |  |
| 61 Anthracene                     | 178       | 17.392                 | 17.392 | (1.008) | 21508    | 0.20472              | 0.2047           |  |
| 62 Carbazole                      | 167       | 17.763                 | 17.748 | (1.030) | 17276    | 0.18762              | 0.1876           |  |
| 63 Di-n-butylphthalate            | 149       | 18.599                 | 18.599 | (1.078) | 22997    | 0.19336              | 0.1934           |  |
| 64 Fluoranthene                   | 202       | 19.729                 | 19.729 | (0.882) | 23601    | 0.17631              | 0.1763           |  |
| 65 Pyrene                         | 202       | 20.154                 | 20.154 | (0.901) | 25934    | 0.18375              | 0.1838           |  |
| § 66 Terphenyl-d14                | 244       | 20.487                 | 20.479 | (0.916) | 19507    | 0.17951              | 0.1795           |  |
| 67 Butylbenzylphthalate           | 149       | 21.447                 | 21.447 | (0.958) | 9988     | 0.19992              | 0.1999           |  |
| 68 Benzo(a)anthracene             | 228       | 22.345                 | 22.353 | (0.999) | 26073    | 0.22060              | 0.2206           |  |
| * 69 Chrysene-d12                 | 240       | 22.376                 | 22.376 | (1.000) | 352830   | 4.00000              |                  |  |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.337                 | 22.338 | (0.998) | 24208    | 0.71722              | 0.7172           |  |
| 71 Chrysene                       | 228       | 22.415                 | 22.423 | (1.002) | 24137    | 0.21247              | 0.2125           |  |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.500                 | 22.500 | (0.958) | 13826    | 0.18117              | 0.1812           |  |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.483                 | 23.483 | (1.000) | 499736   | 4.00000              |                  |  |
| 73 Di-n-octylphthalate            | 149       | 23.491                 | 23.491 | (1.000) | 27092    | 0.20590              | 0.2059           |  |
| 74 Benzo(b)fluoranthene           | 252       | 24.118                 | 24.118 | (0.975) | 19800    | 0.25024              | 0.2502           |  |
| 75 Benzo(k)fluoranthene           | 252       | 24.149                 | 24.149 | (0.977) | 22676    | 0.26565              | 0.2656           |  |
| 76 Benzo(a)pyrene                 | 252       | 24.637                 | 24.637 | (0.996) | 14828    | 0.21844              | 0.2184           |  |
| * 77 Perylene-d12                 | 264       | 24.730                 | 24.730 | (1.000) | 239484   | 4.00000              |                  |  |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.831                 | 26.808 | (1.085) | 7715     | 0.09029              | 0.09029          |  |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.839                 | 26.824 | (1.085) | 6623     | 0.09126              | 0.09126          |  |
| 80 Benzo(g,h,i)perylene           | 276       | 27.429                 | 27.414 | (1.109) | 5371     | 0.07207              | 0.07207          |  |
| 90 N-Nitrosodimethylamine         | 74        | 4.019                  | 3.996  | (0.490) | 8510     | 0.35840              | 0.3584 (M)       |  |
| 91 Aniline                        | 93        | 7.704                  | 7.689  | (0.939) | 16641    | 0.30355              | 0.3036           |  |
| 93 Benzidine                      | 184       | 20.046                 | 20.007 | (0.896) | 15312    | 0.26739              | 0.2674 (M)       |  |
| 103 Pyridine                      | 79        | 4.089                  | 3.996  | (0.498) | 11188    | 0.15953              | 0.1595 (M)       |  |
| 105 1-methylnaphthalene           | 142       | 12.312                 | 12.305 | (1.155) | 14471    | 0.19414              | 0.1941           |  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.677                 | 15.685 | (1.100) | 16686    | 0.21454              | 0.2145           |  |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 24.149 | 24.149 | (0.977) | 40295    | 0.52061              | 0.5206           |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 15.012 | 14.997 | (1.054) | 3401     | 0.13127              | 0.1313           |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 02-MAR-2023  
 Lab File ID: NT1423022850.D Calibration Time: 05:52  
 Lab Smp Id: SLB0374-LCV5  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 116519   | 58260      | 233038  | 115459 | -0.91  |
| 27 Naphthalene-d8     | 429090   | 214545     | 858180  | 409877 | -4.48  |
| 42 Acenaphthene-d10   | 250637   | 125319     | 501274  | 230328 | -8.10  |
| 59 Phenanthrene-d10   | 458117   | 229059     | 916234  | 417754 | -8.81  |
| 69 Chrysene-d12       | 393468   | 196734     | 786936  | 352830 | -10.33 |
| 134 Di-n-octylphthala | 572636   | 286318     | 1145272 | 499736 | -12.73 |
| 77 Perylene-d12       | 283320   | 141660     | 566640  | 239484 | -15.47 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.21   | -0.00 |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.66  | -0.07 |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.25  | -0.00 |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.25  | -0.00 |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.38  | -0.00 |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.48  | -0.00 |
| 77 Perylene-d12       | 24.73    | 24.23    | 25.23 | 24.73  | -0.00 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



REVIEW SUMMARY FOR FILE - NT1423022850.D

Lab ID: SLB0374-LCV5  
nt14.i, ABN.m, 02-MAR-2023 07:04

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND       |
|-------|---------|--------|----------------|
| 1.058 | 1.038   | 0.0199 | Benzyl alcohol |
| 0.498 | 0.487   | 0.0113 | Pyridine       |

RRT check based on Ccal File: NT1423022848.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

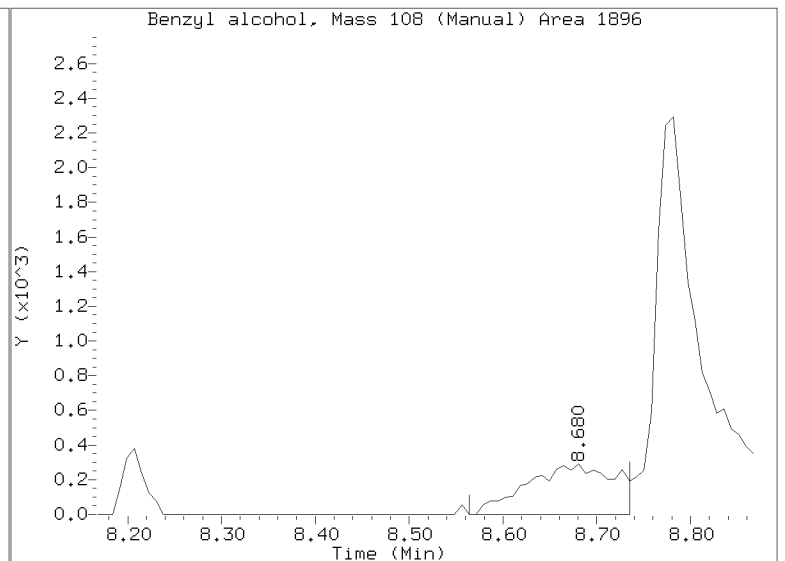
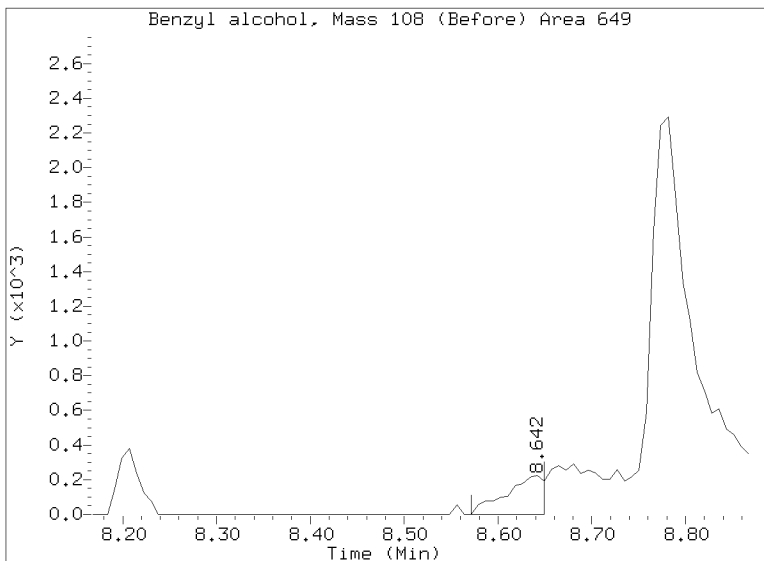
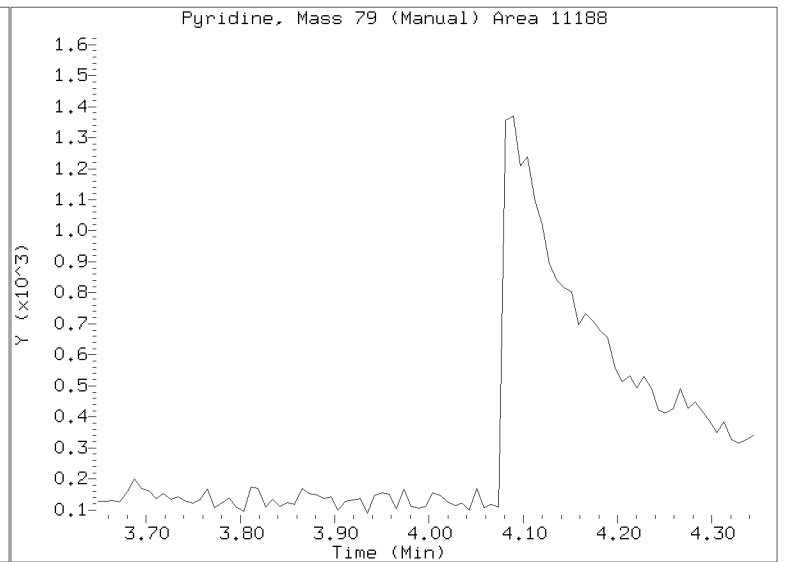
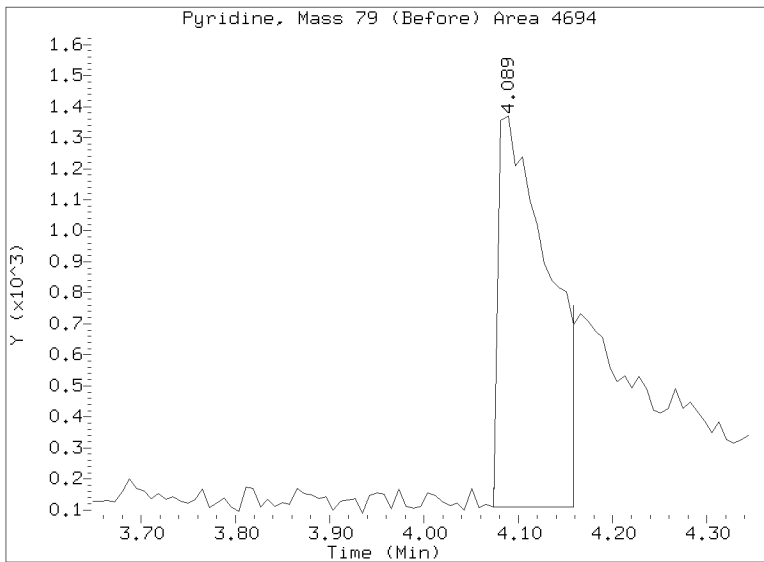
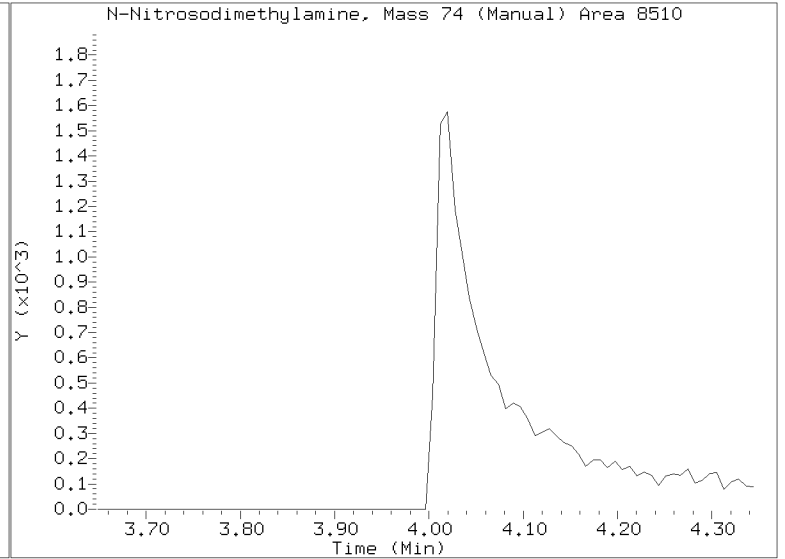
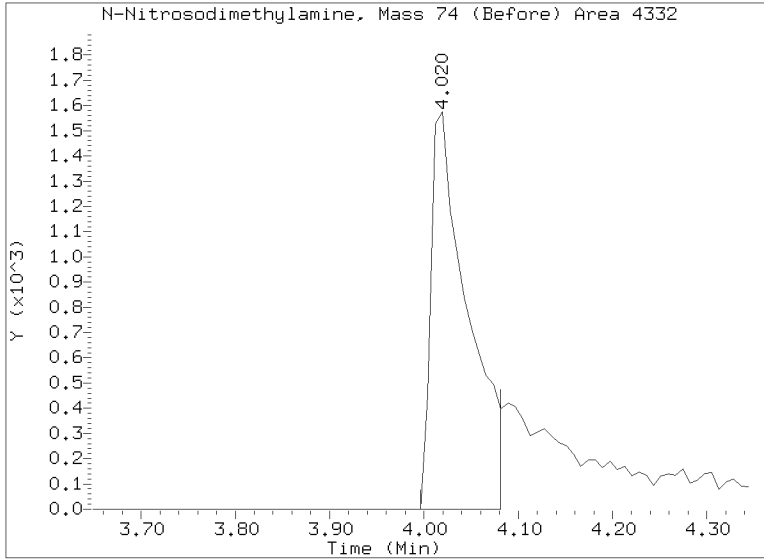
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Injection Date: 02-MAR-2023 07:04

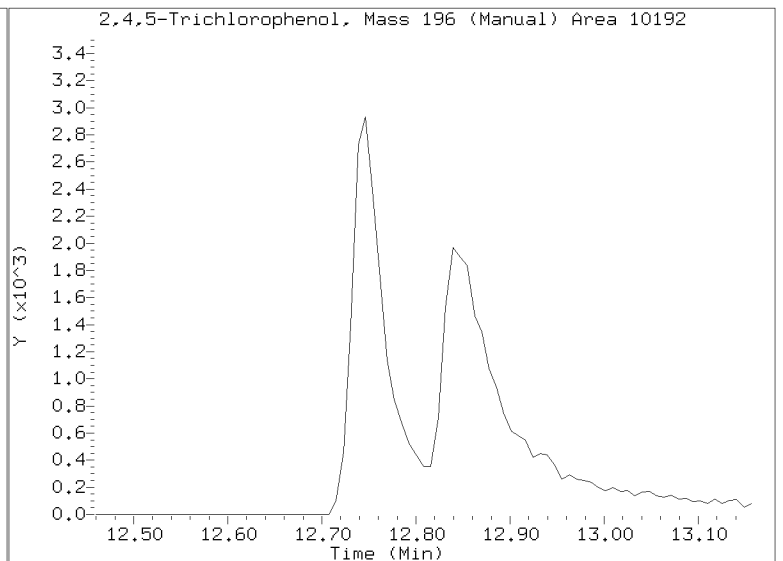
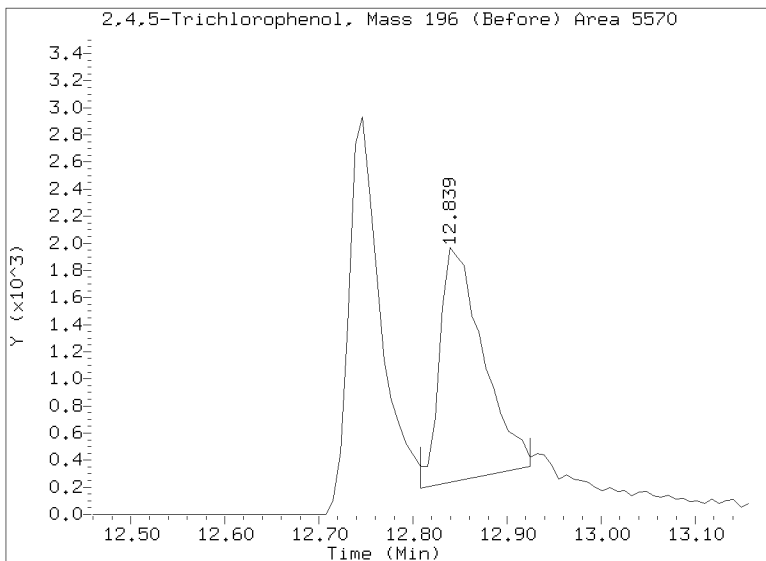
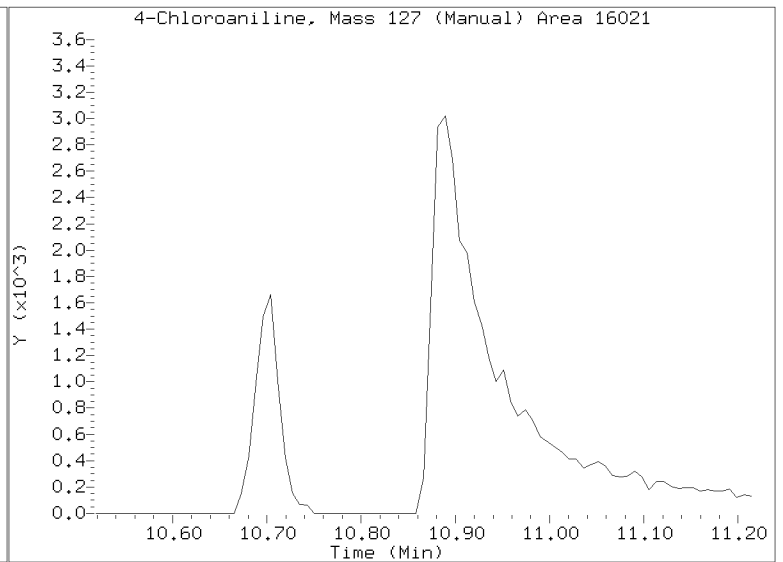
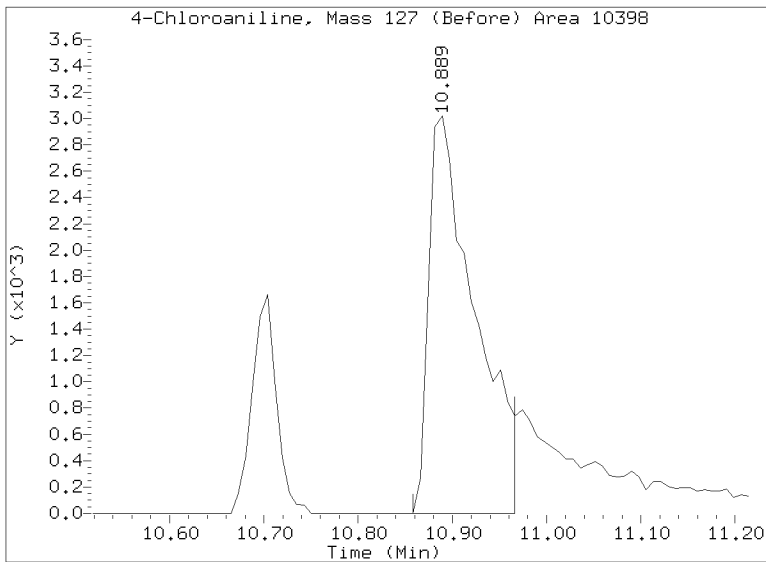
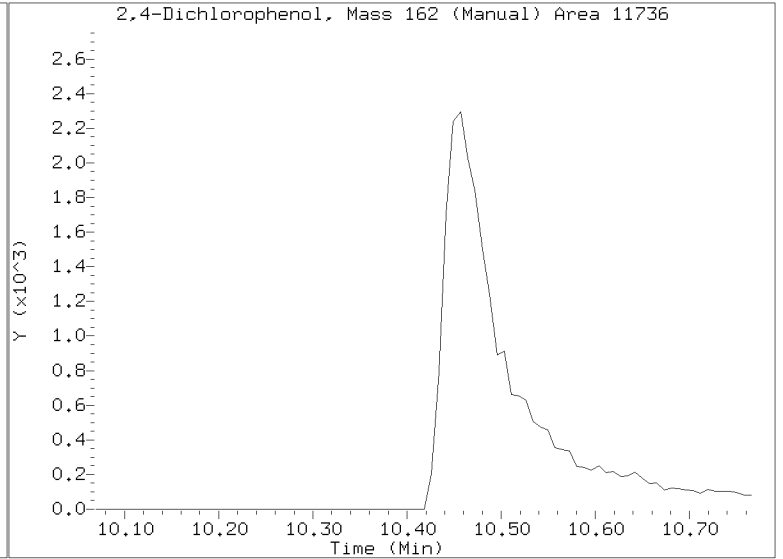
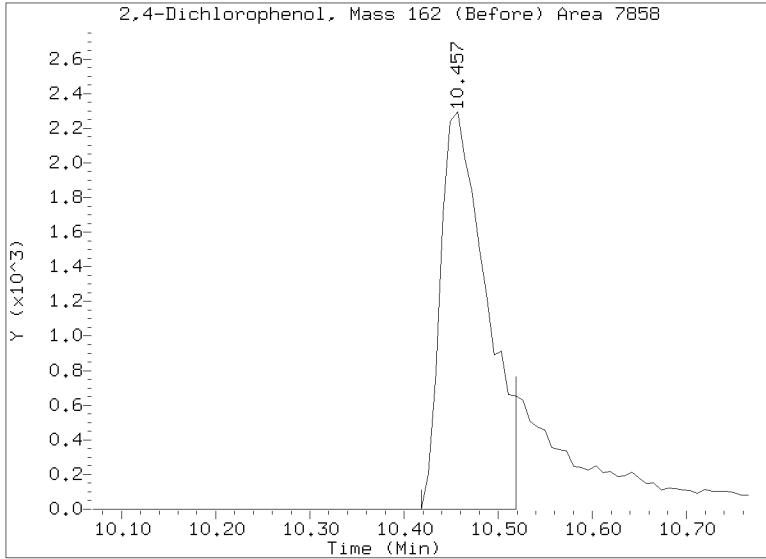
Lab ID:SLB0374-LCV5 Client ID:

Report Date: 03/14/2023 08:43



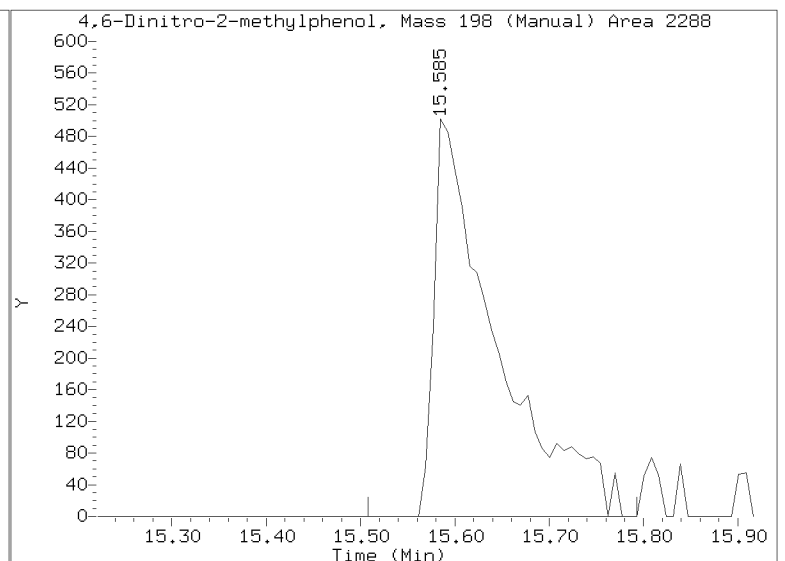
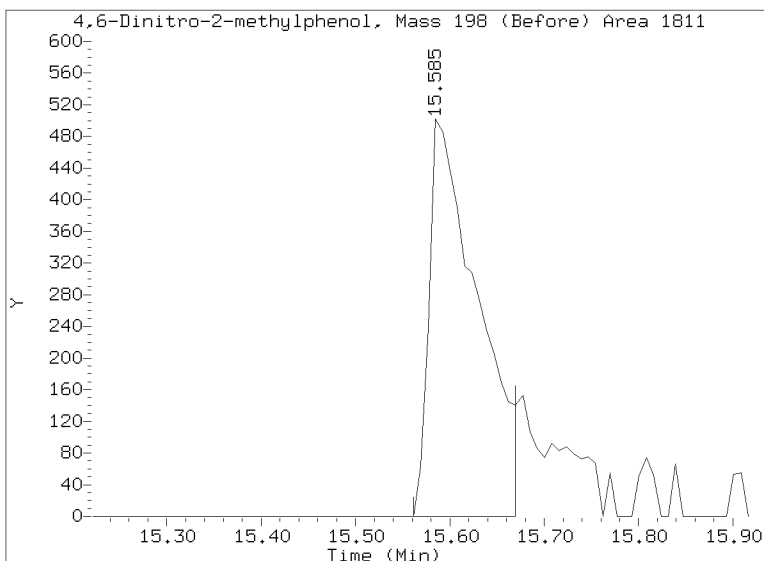
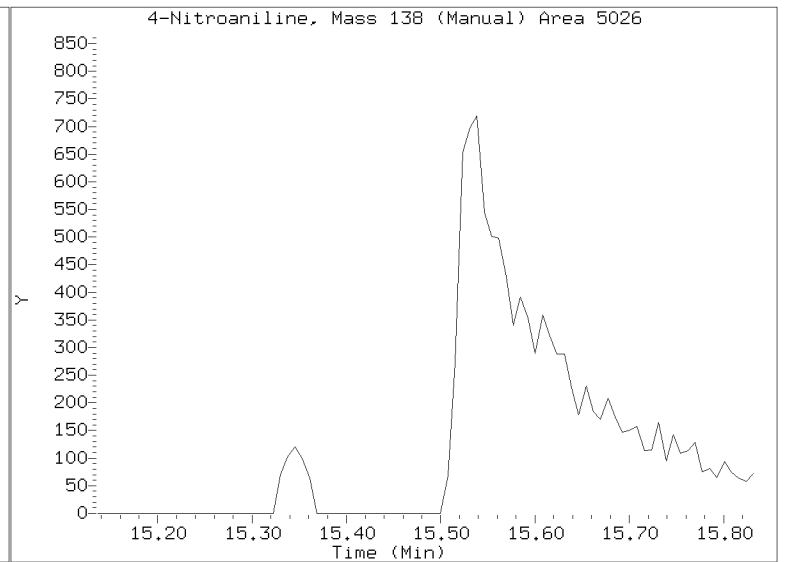
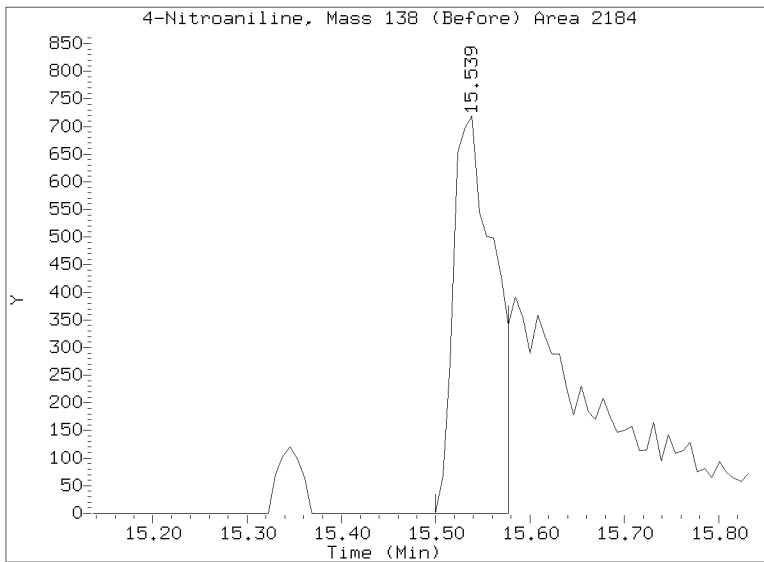
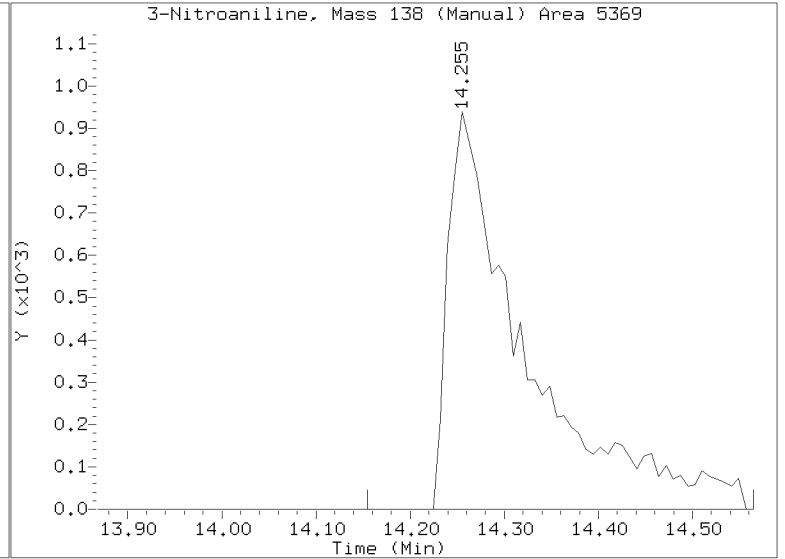
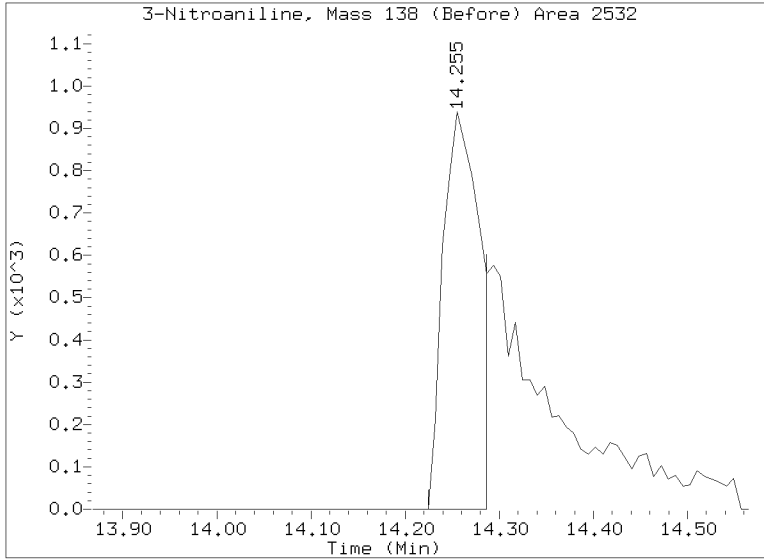
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Injection Date: 02-MAR-2023 07:04  
Lab ID:SLB0374-LCV5 Client ID:  
Report Date: 03/14/2023 08:43



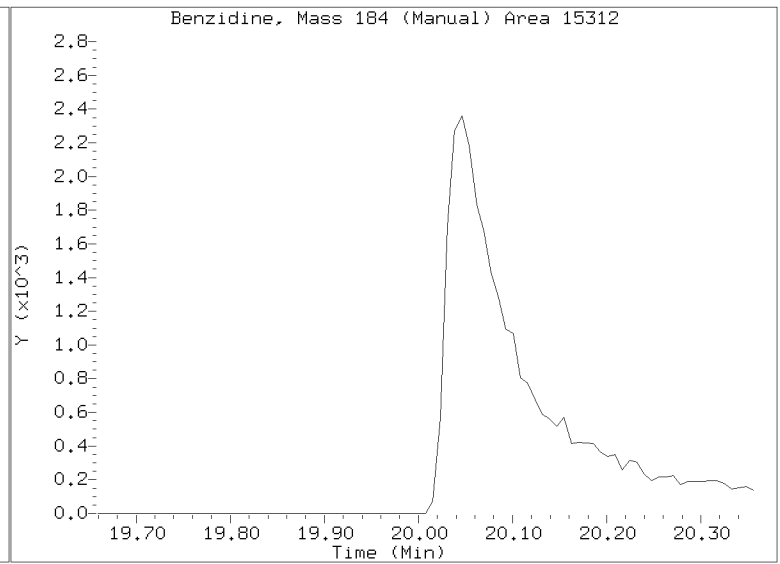
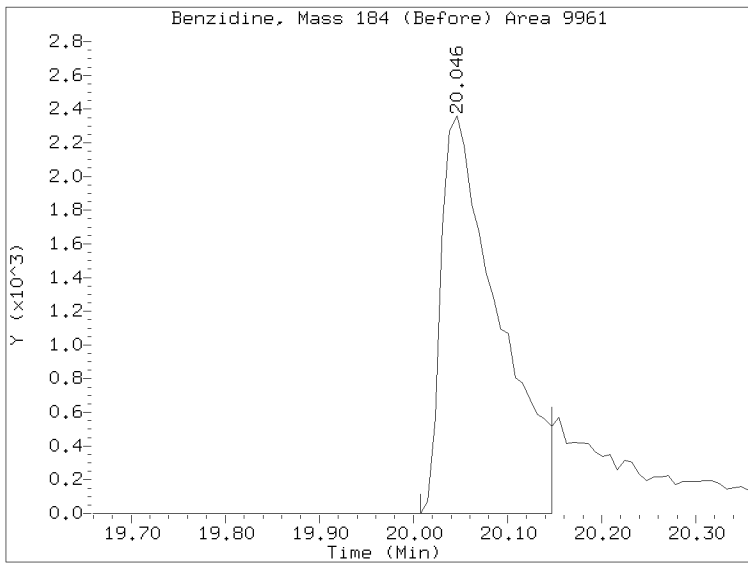
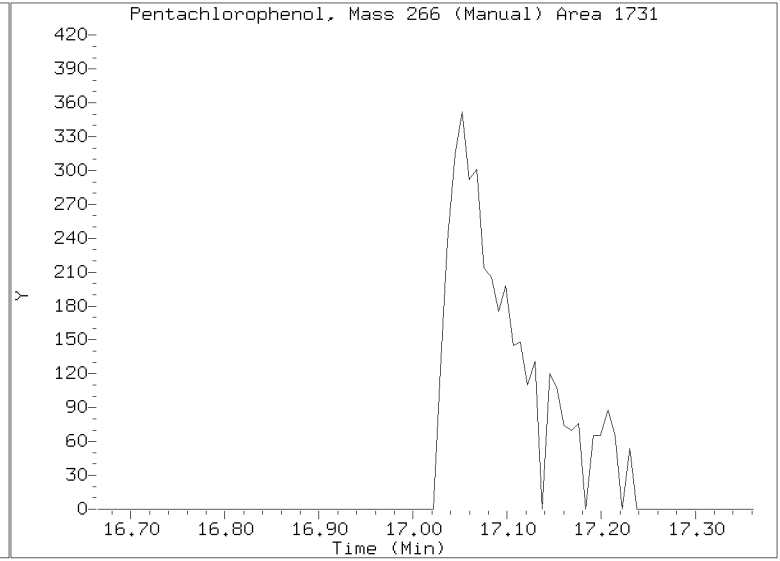
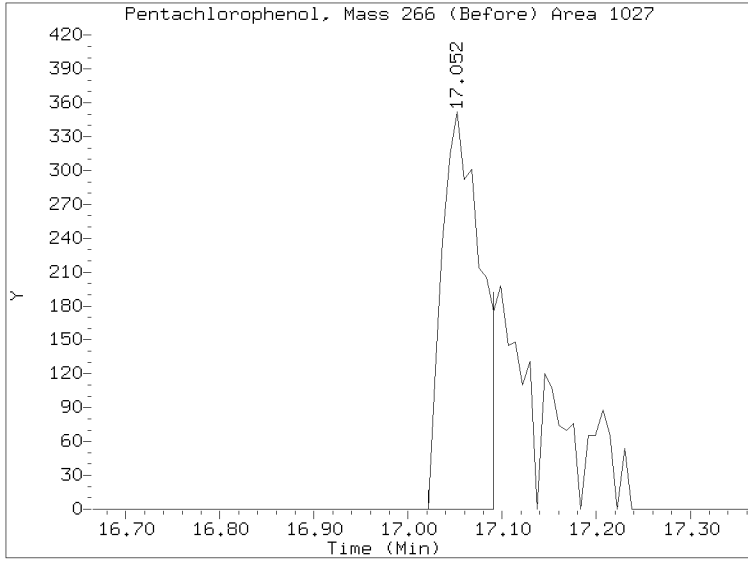
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022850.D  
Injection Date: 02-MAR-2023 07:04  
Lab ID: SLB0374-LCV5 Client ID:  
Report Date: 03/14/2023 08:43



# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022850.D  
Injection Date: 02-MAR-2023 07:04  
Lab ID:SLB0374-LCV5 Client ID:  
Report Date: 03/14/2023 08:43





**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-LCV6

**Sequence:** SLB0374

**Standard ID:** K011106

| ANALYTE                      | EXPECTED<br>(ug/mL) | FOUND<br>(ug/mL) | % DRIFT | QC LIMIT |
|------------------------------|---------------------|------------------|---------|----------|
| Phenol                       | 0.50000             | 0.5              | -0.2    | 50.00    |
| bis(2-chloroethyl) ether     | 0.50000             | 0.5              | 8.5     | 50.00    |
| 2-Chlorophenol               | 0.50000             | 0.6              | 10.3    | 50.00    |
| 1,3-Dichlorobenzene          | 0.50000             | 0.5              | 7.1     | 50.00    |
| 1,4-Dichlorobenzene          | 0.50000             | 0.5              | 6.5     | 50.00    |
| 1,2-Dichlorobenzene          | 0.50000             | 0.5              | 5.1     | 50.00    |
| Benzyl Alcohol               | 0.50000             | 0.3              | -44.5   | 50.00    |
| 2,2'-Oxybis(1-chloropropane) | 0.50000             | 0.5              | 7.5     | 50.00    |
| 2-Methylphenol               | 0.50000             | 0.5              | 2.3     | 50.00    |
| Hexachloroethane             | 0.50000             | 0.4              | -22.0   | 50.00    |
| N-Nitroso-di-n-Propylamine   | 0.50000             | 0.6              | 22.5    | 50.00    |
| 4-Methylphenol               | 0.50000             | 0.4              | -17.8   | 50.00    |
| Nitrobenzene                 | 0.50000             | 0.5              | 8.5     | 50.00    |
| Isophorone                   | 0.50000             | 0.5              | -0.2    | 50.00    |
| 2-Nitrophenol                | 0.50000             | 0.5              | -6.3    | 50.00    |
| 2,4-Dimethylphenol           | 1.0000              | 1.0              | 3.3     | 50.00    |
| Bis(2-Chloroethoxy)methane   | 0.50000             | 0.5              | 0.3     | 50.00    |
| 2,4-Dichlorophenol           | 1.0000              | 0.8              | -22.4   | 50.00    |
| 1,2,4-Trichlorobenzene       | 0.50000             | 0.5              | -2.2    | 50.00    |
| Naphthalene                  | 0.50000             | 0.5              | 5.9     | 50.00    |
| Benzoic acid                 | 2.0000              | 1.1              | -45.6   | 50.00    |
| 4-Chloroaniline              | 1.0000              | 0.9              | -13.7   | 50.00    |
| Hexachlorobutadiene          | 0.50000             | 0.4              | -12.2   | 50.00    |
| 4-Chloro-3-Methylphenol      | 1.0000              | 1.0              | -1.0    | 50.00    |
| 2-Methylnaphthalene          | 0.50000             | 0.5              | -0.8    | 50.00    |
| Hexachlorocyclopentadiene    | 1.0000              | 0.006            | -99.4 * | 50.00    |
| 2,4,6-Trichlorophenol        | 1.0000              | 0.9              | -7.9    | 50.00    |
| 2,4,5-Trichlorophenol        | 1.0000              | 0.9              | -6.7    | 50.00    |
| 2-Chloronaphthalene          | 0.50000             | 0.5              | 4.2     | 50.00    |



**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-LCV6

**Sequence:** SLB0374

**Standard ID:** K011106

|                            |         |     |         |       |
|----------------------------|---------|-----|---------|-------|
| 2-Nitroaniline             | 1.0000  | 1.1 | 9.5     | 50.00 |
| Acenaphthylene             | 0.50000 | 0.6 | 13.2    | 50.00 |
| Dimethylphthalate          | 0.50000 | 0.6 | 11.3    | 50.00 |
| 2,6-Dinitrotoluene         | 1.0000  | 1.0 | 3.4     | 50.00 |
| Acenaphthene               | 0.50000 | 0.5 | 6.0     | 50.00 |
| 3-Nitroaniline             | 1.0000  | 0.8 | -22.3   | 50.00 |
| 2,4-Dinitrophenol          | 2.0000  | 0.4 | -81.8 * | 50.00 |
| Dibenzofuran               | 0.50000 | 0.5 | 0.6     | 50.00 |
| 4-Nitrophenol              | 1.0000  | 0.8 | -17.1   | 50.00 |
| 2,4-Dinitrotoluene         | 1.0000  | 0.9 | -9.7    | 50.00 |
| Fluorene                   | 0.50000 | 0.5 | 8.5     | 50.00 |
| 4-Chlorophenylphenyl ether | 0.50000 | 0.5 | 0.2     | 50.00 |
| Diethyl phthalate          | 0.50000 | 0.6 | 12.5    | 50.00 |
| 4-Nitroaniline             | 1.0000  | 0.7 | -26.3   | 50.00 |
| 4,6-Dinitro-2-methylphenol | 2.0000  | 0.7 | -66.0 * | 50.00 |
| N-Nitrosodiphenylamine     | 0.50000 | 0.6 | 13.3    | 50.00 |
| 4-Bromophenyl phenyl ether | 0.50000 | 0.5 | 1.2     | 50.00 |
| Hexachlorobenzene          | 0.50000 | 0.5 | 3.4     | 50.00 |
| Pentachlorophenol          | 1.0000  | 0.6 | -44.7   | 50.00 |
| Phenanthrene               | 0.50000 | 0.5 | 3.5     | 50.00 |
| Anthracene                 | 0.50000 | 0.5 | 5.3     | 50.00 |
| Carbazole                  | 0.50000 | 0.5 | 0.2     | 50.00 |
| Di-n-Butylphthalate        | 0.50000 | 0.5 | 3.0     | 50.00 |
| Fluoranthene               | 0.50000 | 0.5 | -6.8    | 50.00 |
| Pyrene                     | 0.50000 | 0.5 | -6.8    | 50.00 |
| Butylbenzylphthalate       | 0.50000 | 0.5 | 3.1     | 50.00 |
| Benzo(a)anthracene         | 0.50000 | 0.5 | 9.9     | 50.00 |
| 3,3'-Dichlorobenzidine     | 1.5000  | 1.8 | 22.4    | 50.00 |
| Chrysene                   | 0.50000 | 0.5 | 7.6     | 50.00 |
| bis(2-Ethylhexyl)phthalate | 0.50000 | 0.5 | -9.2    | 50.00 |
| Di-n-Octylphthalate        | 0.50000 | 0.5 | 0.1     | 50.00 |



**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00033

**Laboratory ID:** SLB0374-LCV6

**Sequence:** SLB0374

**Standard ID:** K011106

|                           |         |       |         |       |
|---------------------------|---------|-------|---------|-------|
| Benzofluoranthenes, Total | 1.0000  | 1.3   | 26.6    | 50.00 |
| Benzo(a)pyrene            | 0.50000 | 0.5   | 8.3     | 50.00 |
| Indeno(1,2,3-cd)pyrene    | 0.50000 | 0.2   | -54.3 * | 50.00 |
| Dibenzo(a,h)anthracene    | 0.50000 | 0.3   | -50.0   | 50.00 |
| Benzo(g,h,i)perylene      | 0.50000 | 0.2   | -63.5 * | 50.00 |
| 1-Methylnaphthalene       | 0.50000 | 0.5   | -2.2    | 50.00 |
| 2-Fluorophenol            | 0.75000 | 0.695 | -7.4    | 50.00 |
| Phenol-d5                 | 0.75000 | 0.802 | 6.9     | 50.00 |
| 2-Chlorophenol-d4         | 0.75000 | 0.851 | 13.4    | 50.00 |
| 1,2-Dichlorobenzene-d4    | 0.50000 | 0.509 | 1.8     | 50.00 |
| Nitrobenzene-d5           | 0.50000 | 0.552 | 10.4    | 50.00 |
| 2-Fluorobiphenyl          | 0.50000 | 0.524 | 4.9     | 50.00 |
| 2,4,6-Tribromophenol      | 0.75000 | 0.580 | -22.6   | 50.00 |
| p-Terphenyl-d14           | 0.50000 | 0.462 | -7.6    | 50.00 |

\* Values outside of QC limits



Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022851.D

Date: 02-MAR-2023 07:40

Client ID:

Sample Info: SLB0374-LCW6

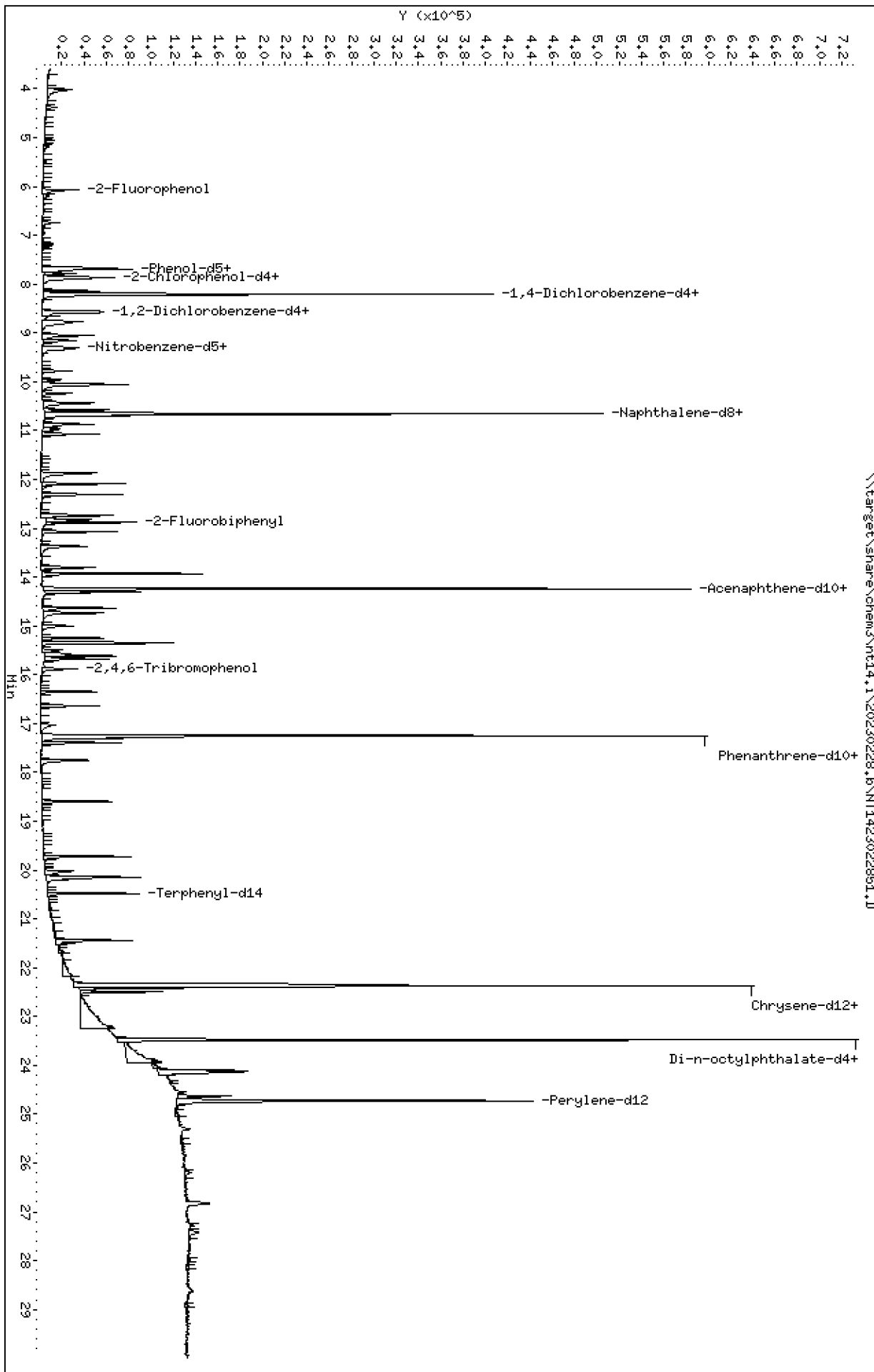
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

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Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

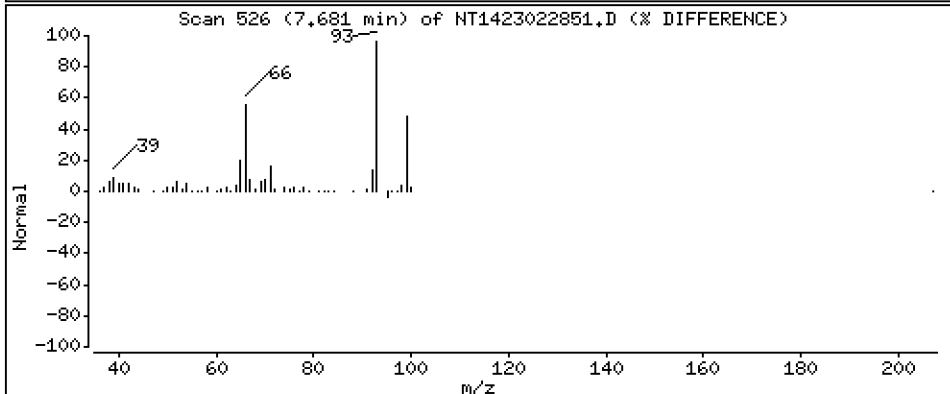
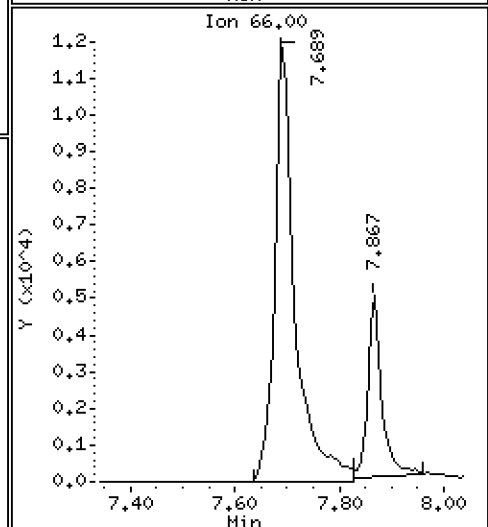
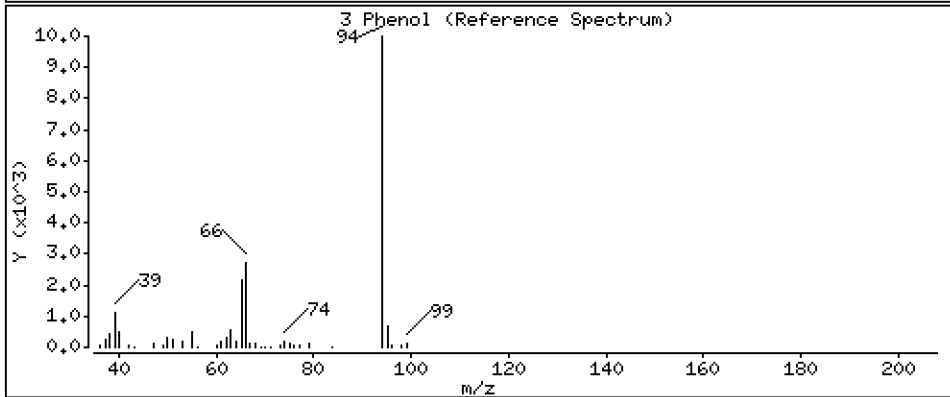
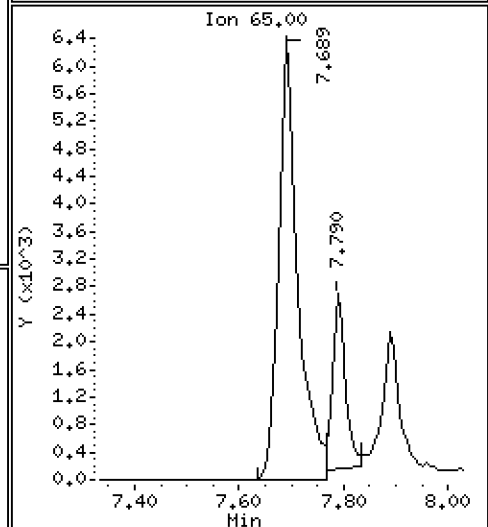
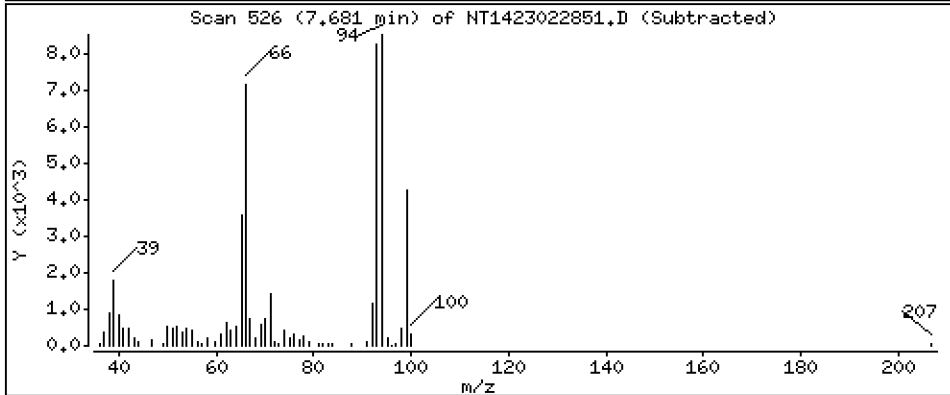
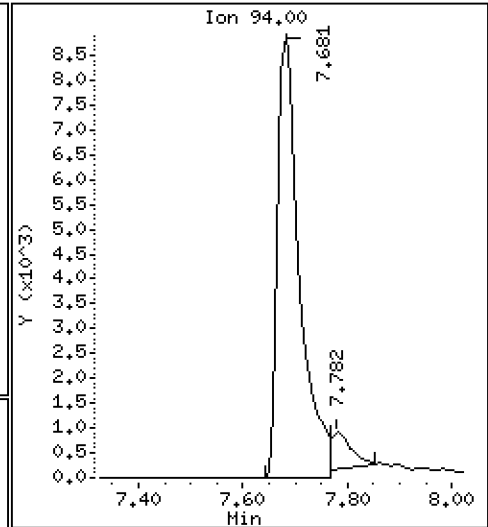
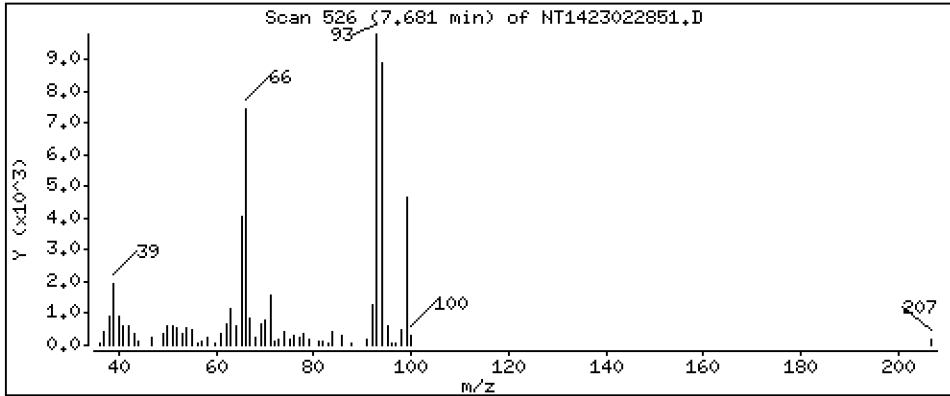
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 0.4990 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

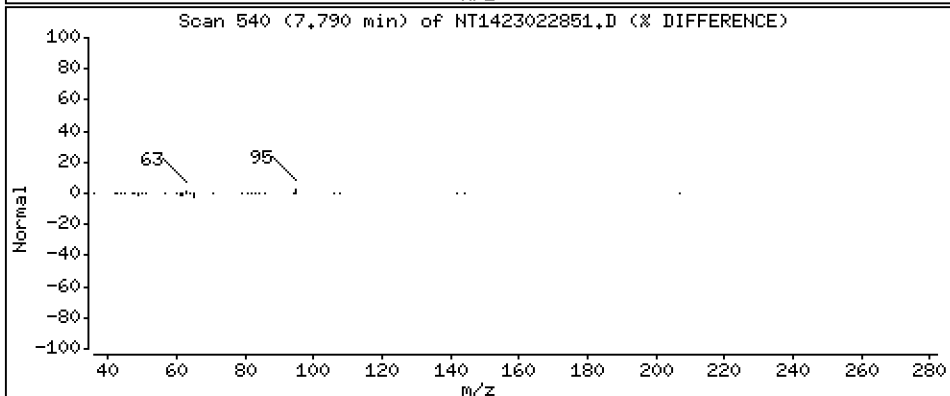
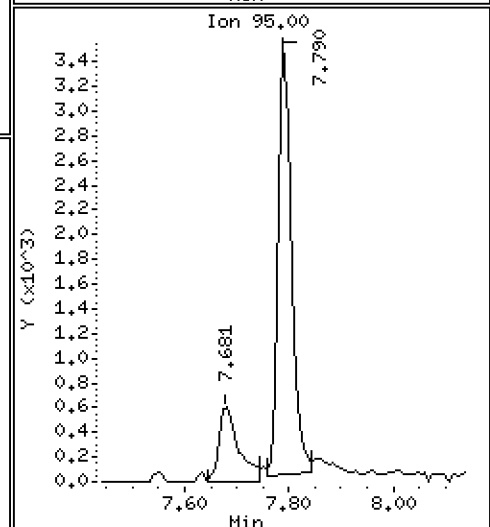
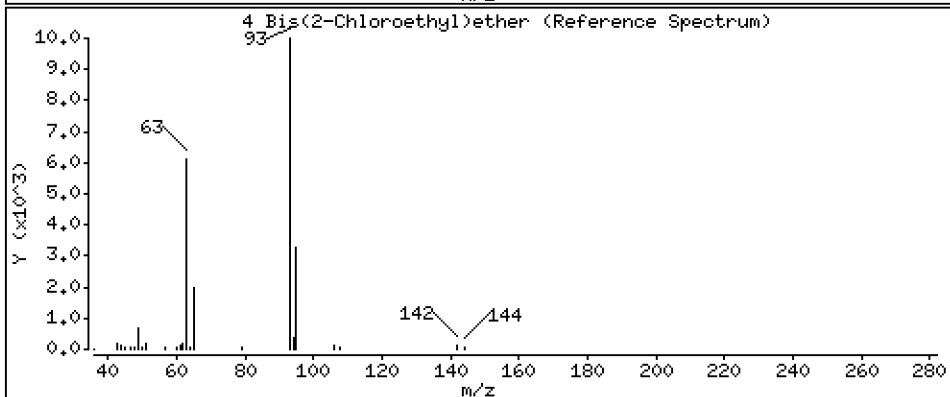
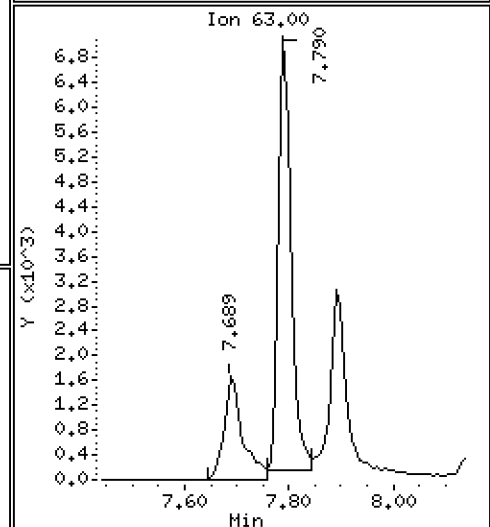
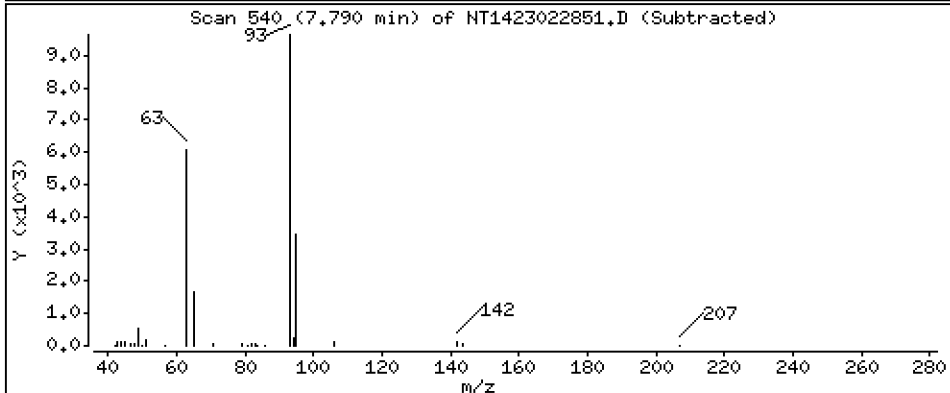
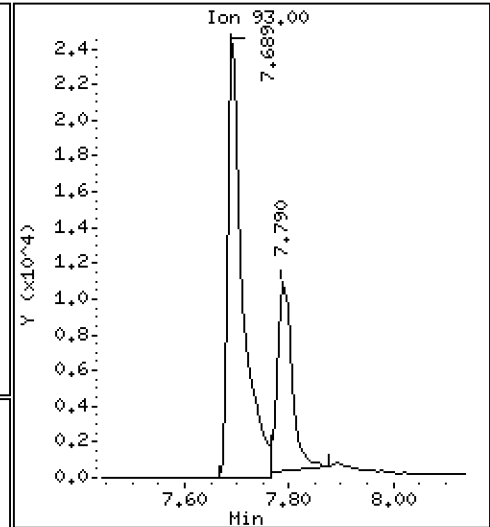
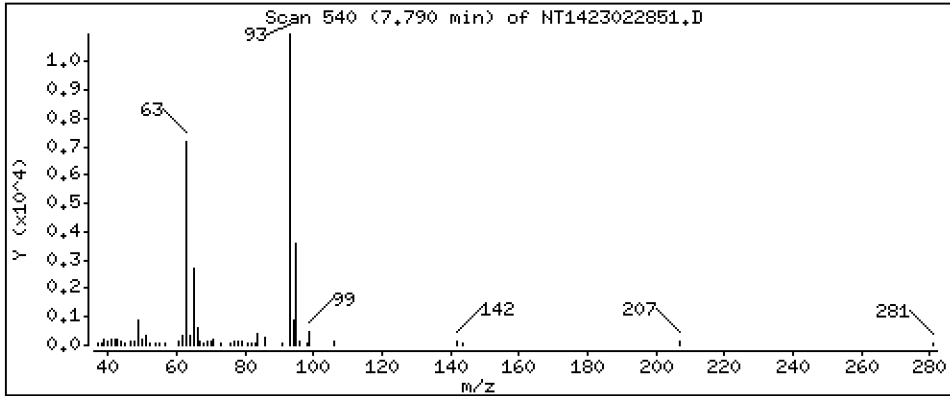
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,5427 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

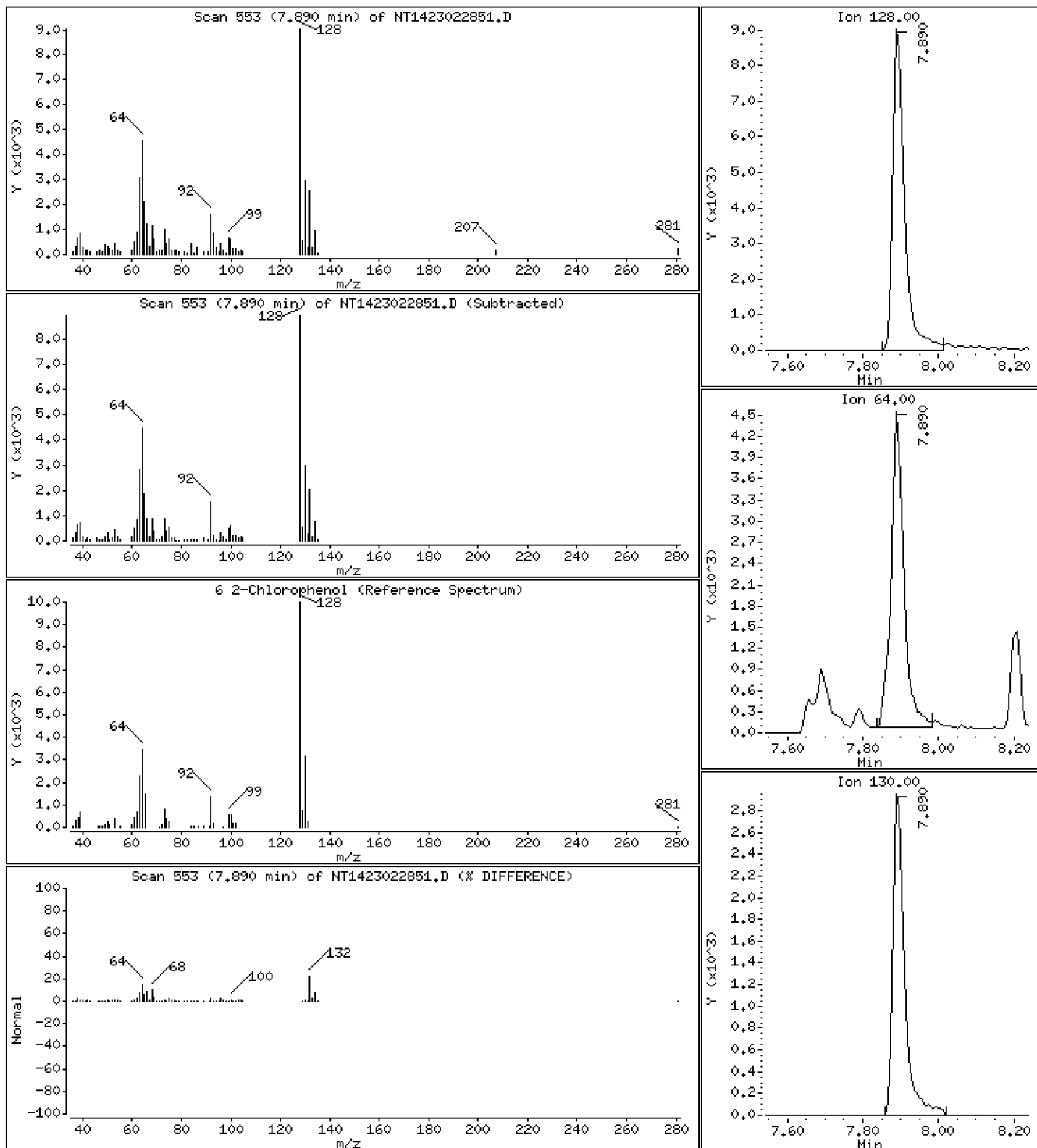
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,5513 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

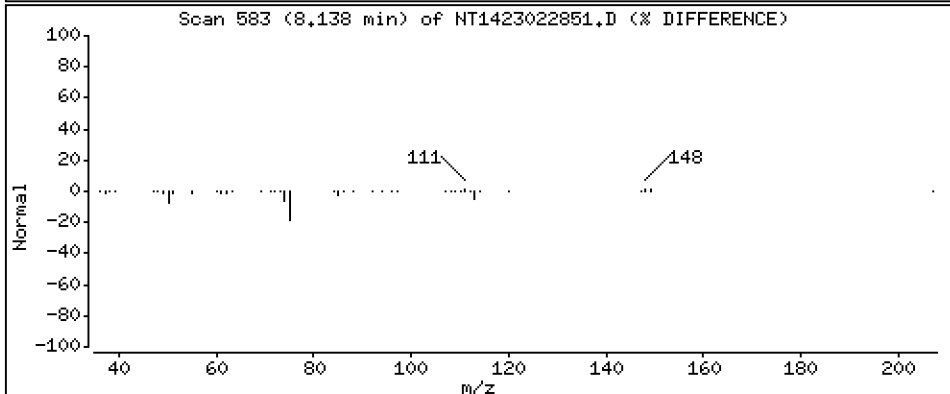
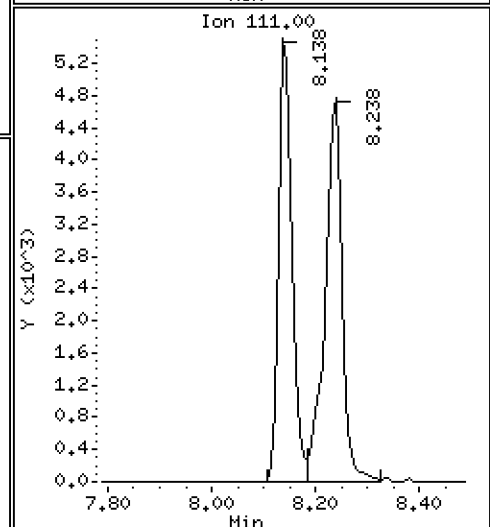
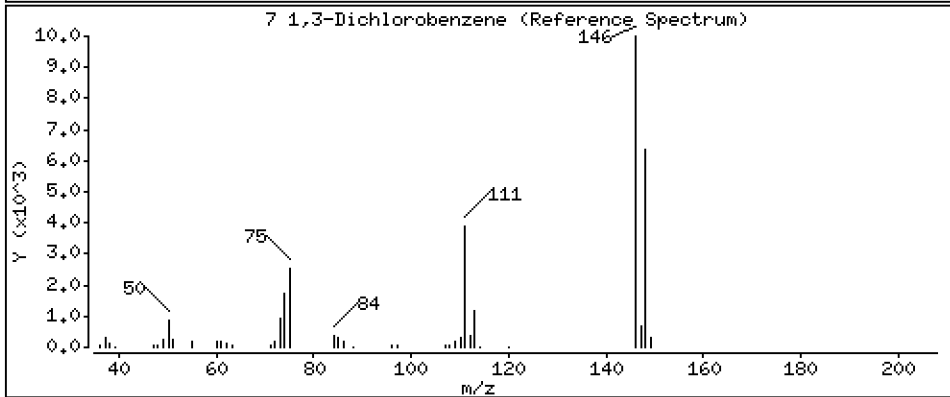
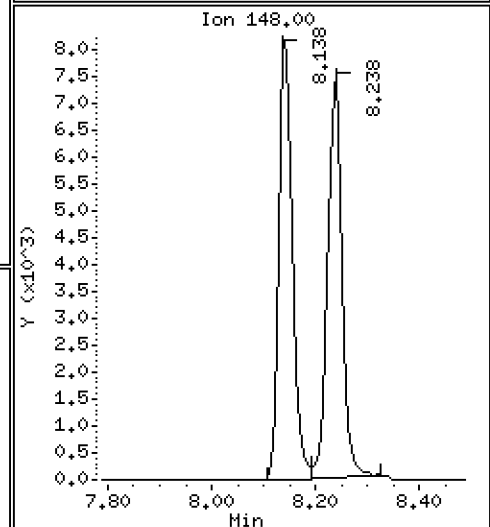
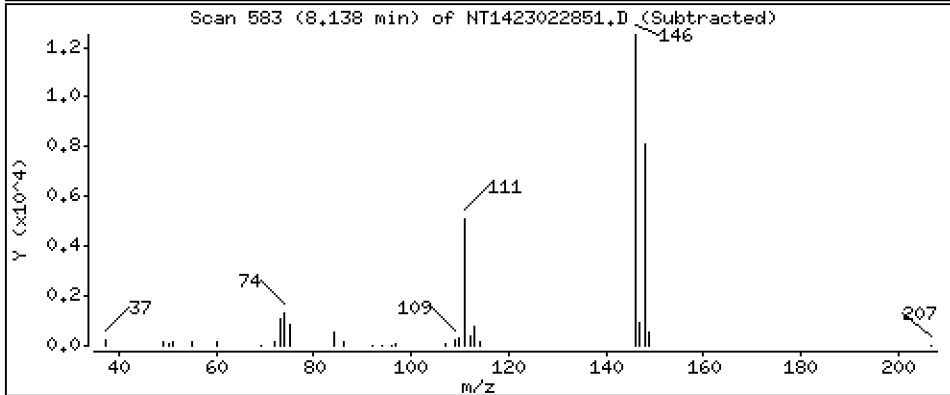
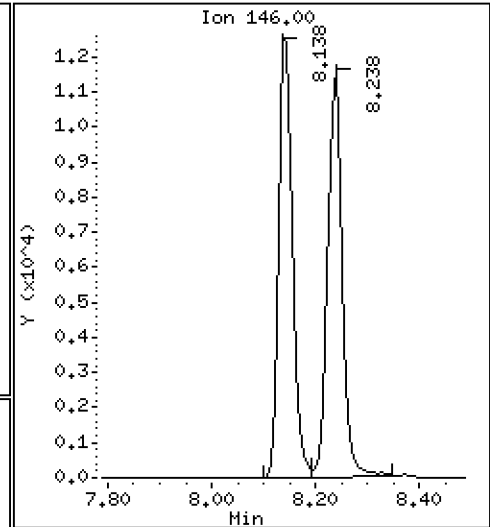
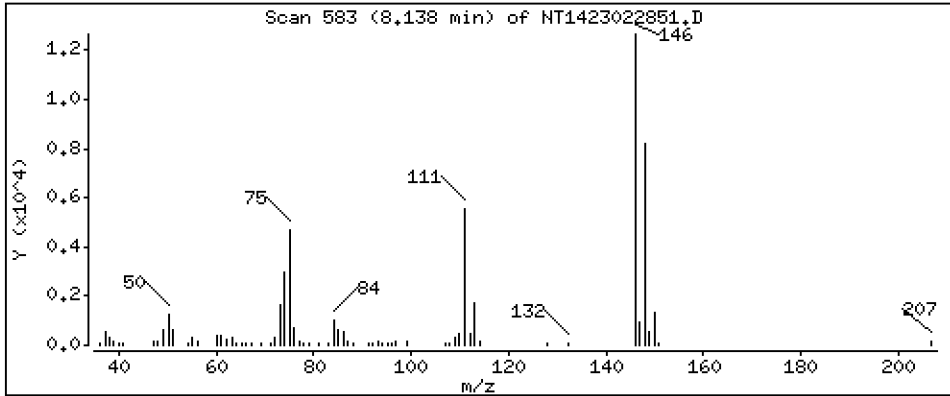
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.5357 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

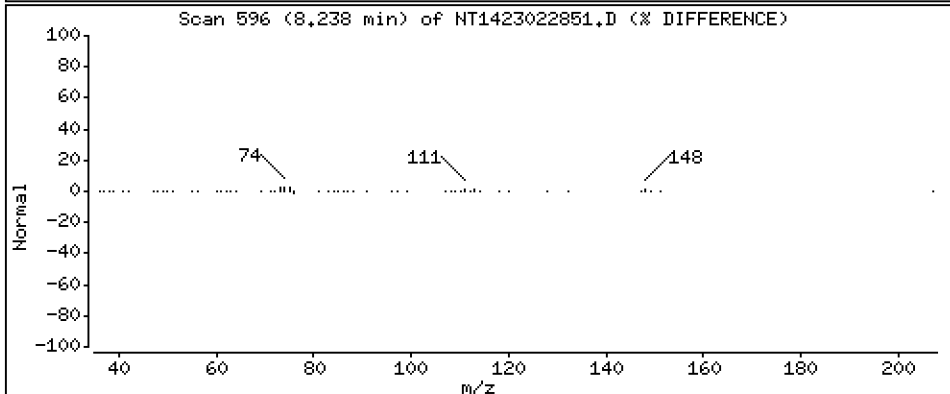
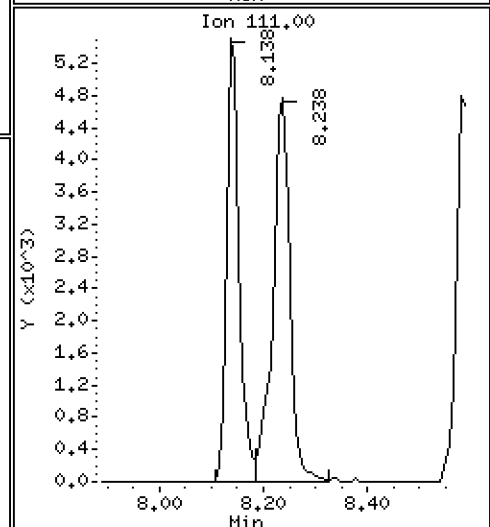
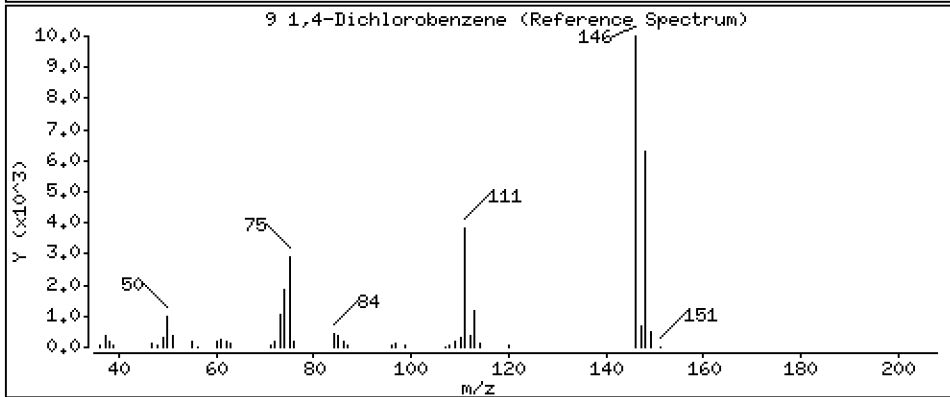
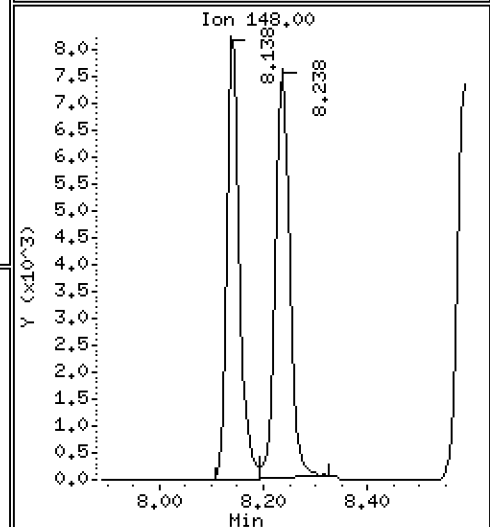
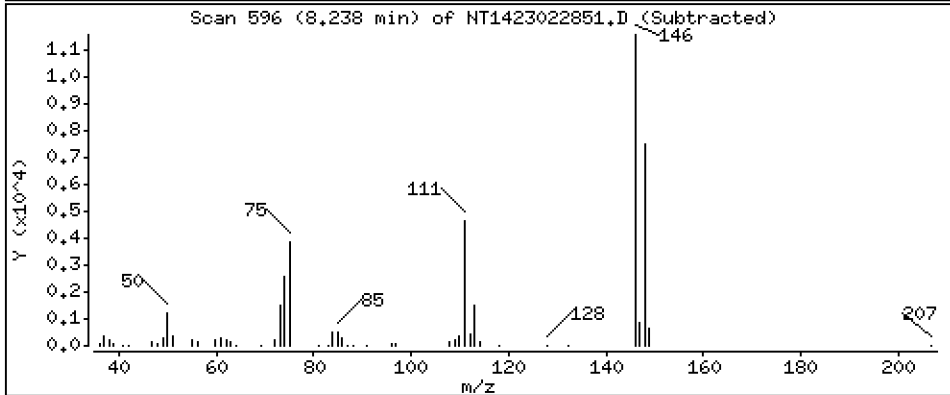
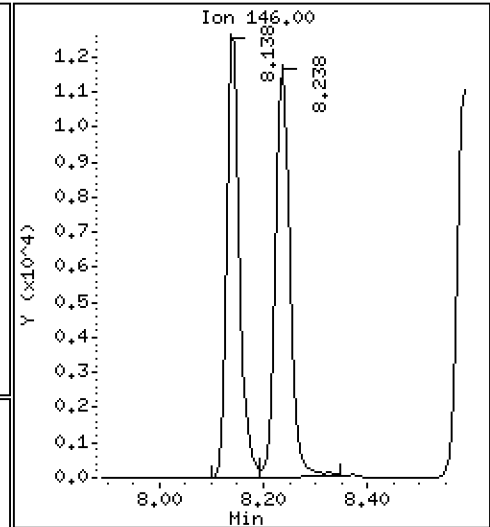
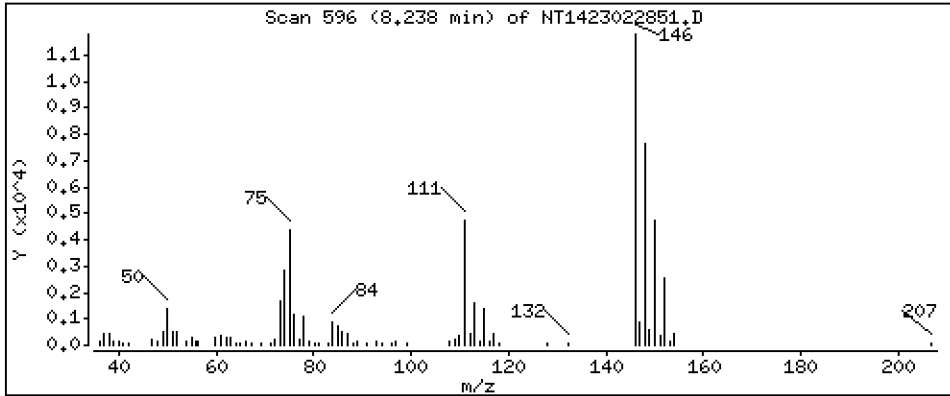
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,5325 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

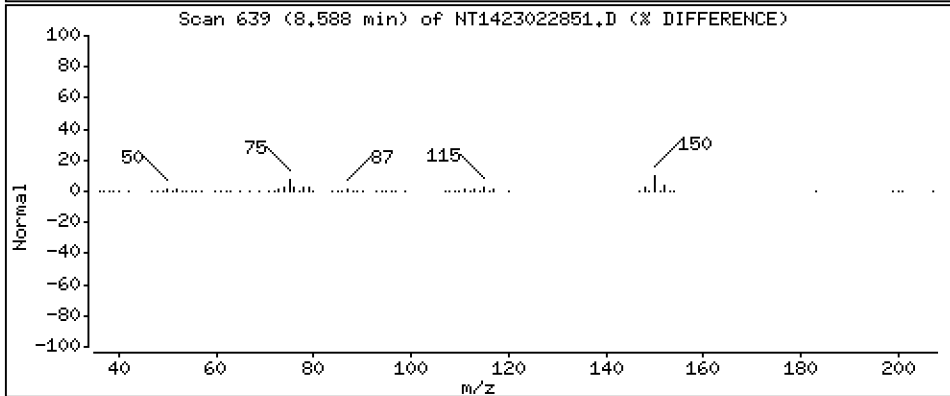
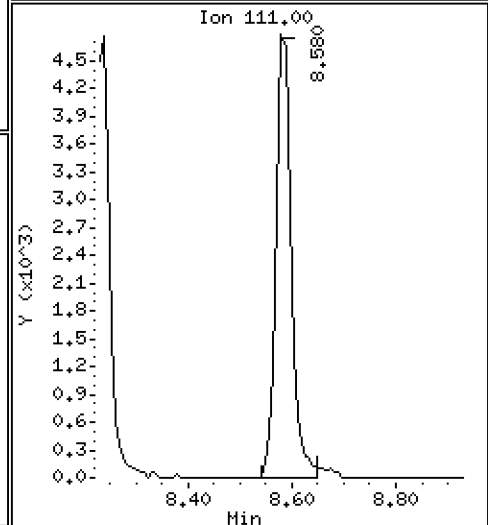
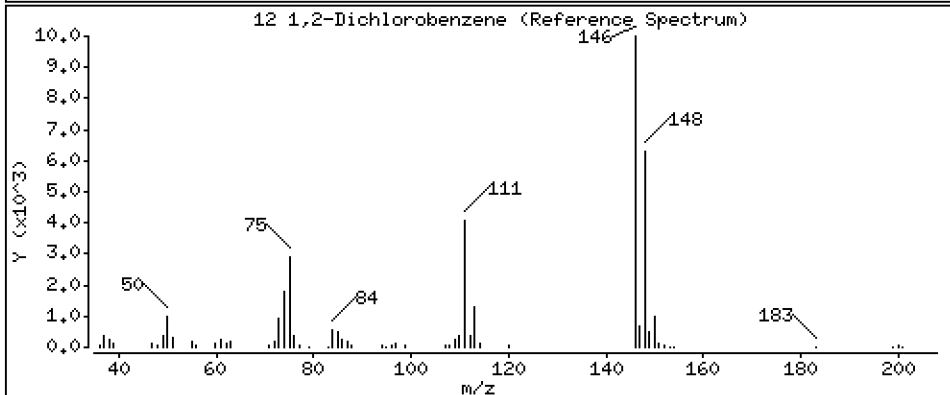
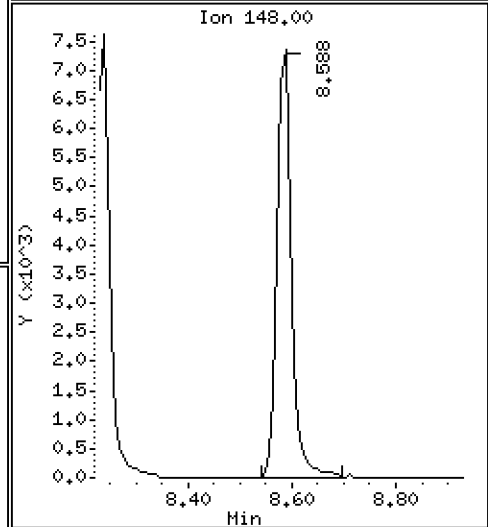
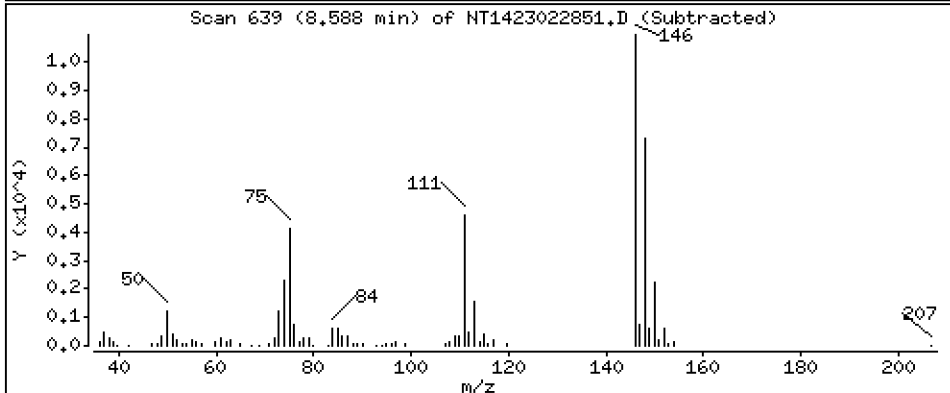
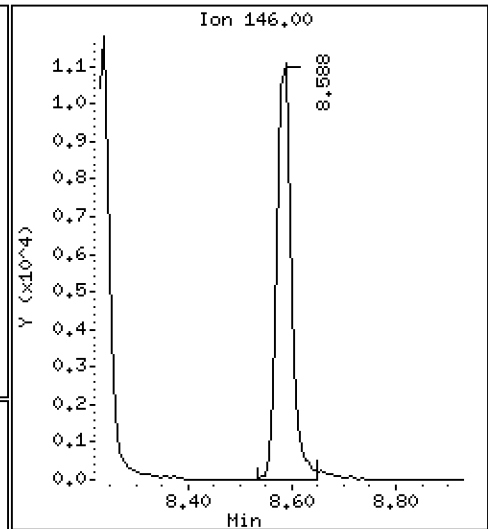
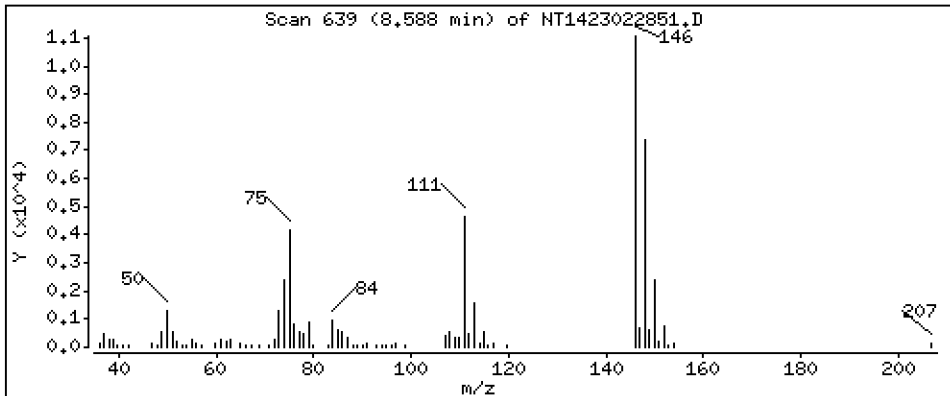
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 0.5253 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

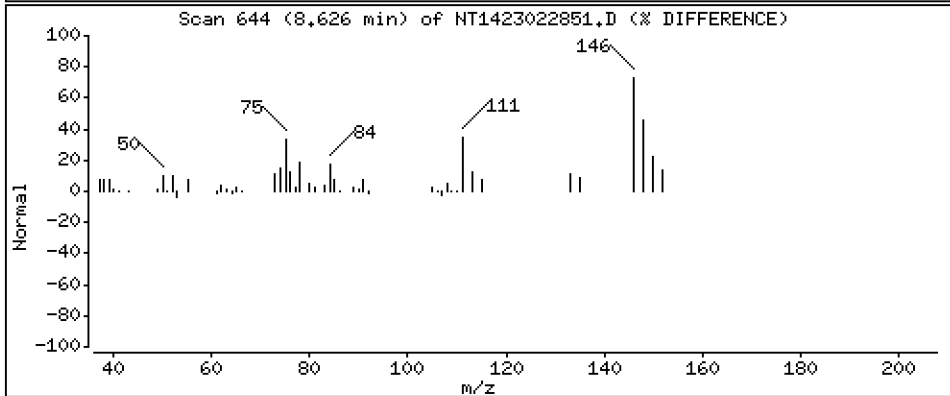
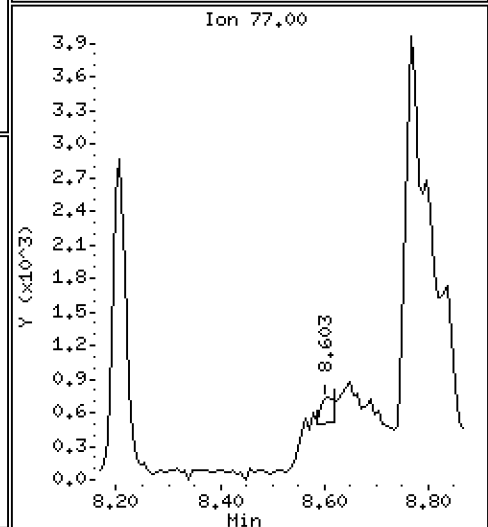
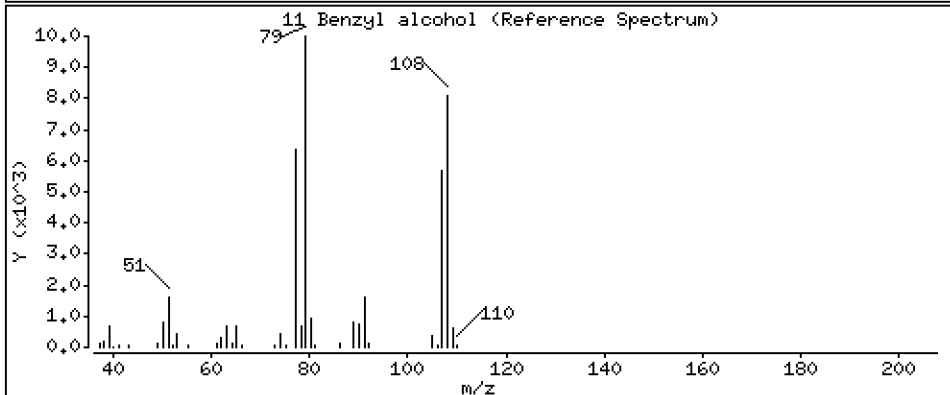
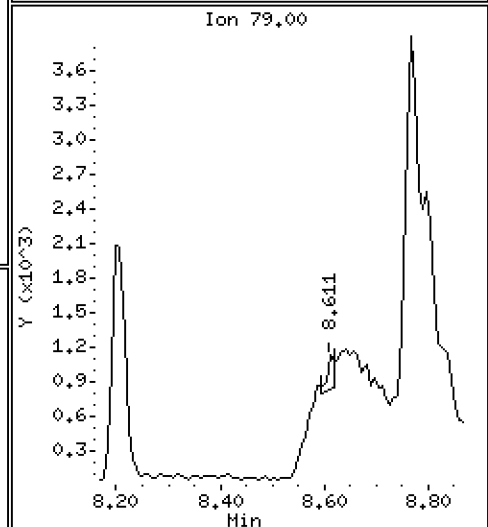
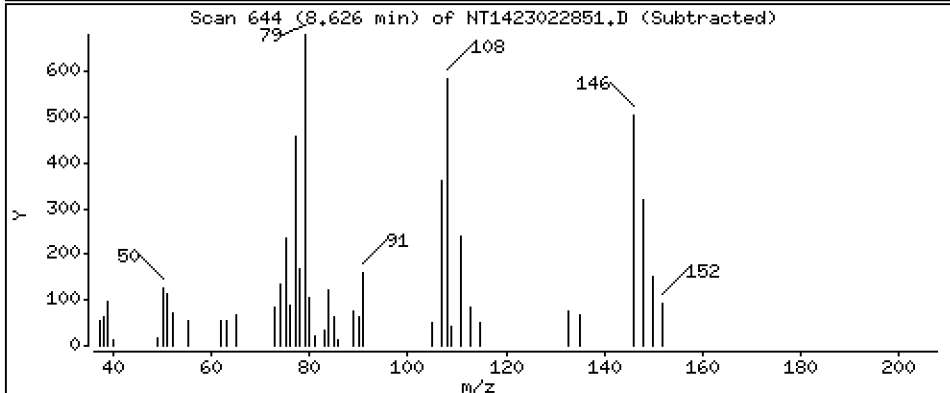
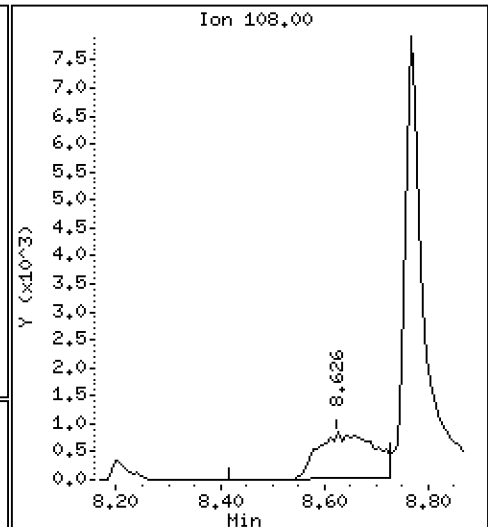
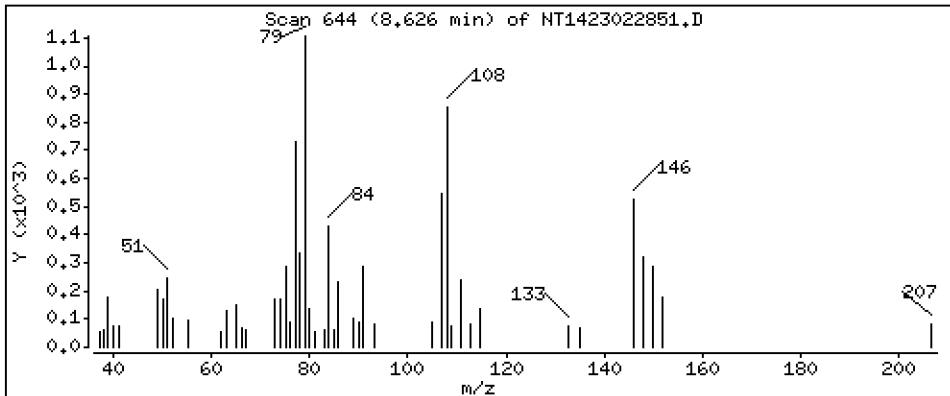
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 0,2776 ug/mL





Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

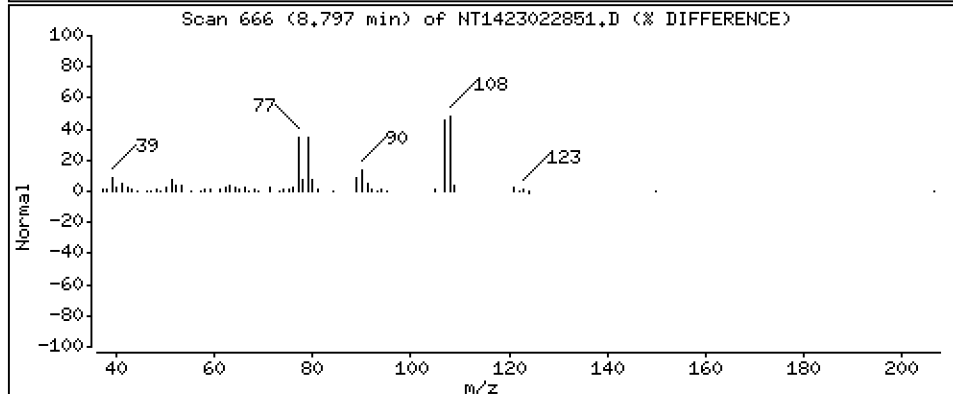
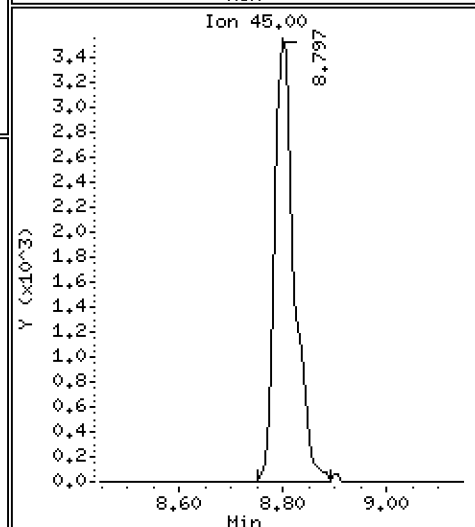
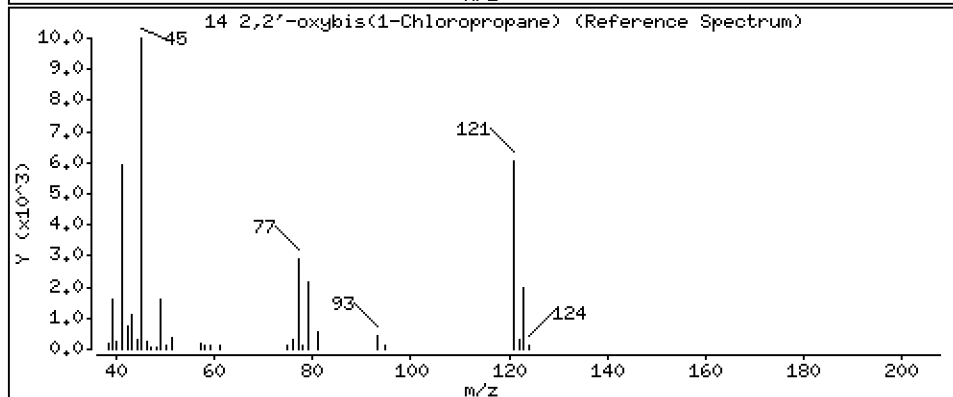
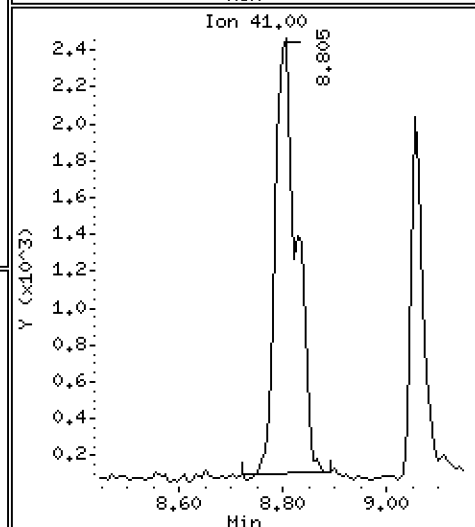
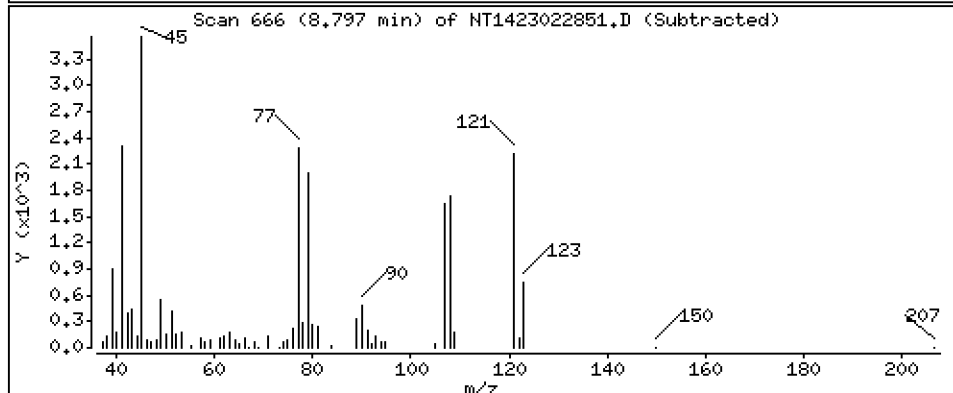
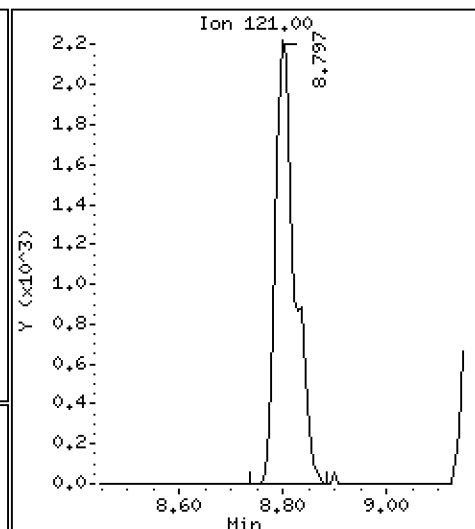
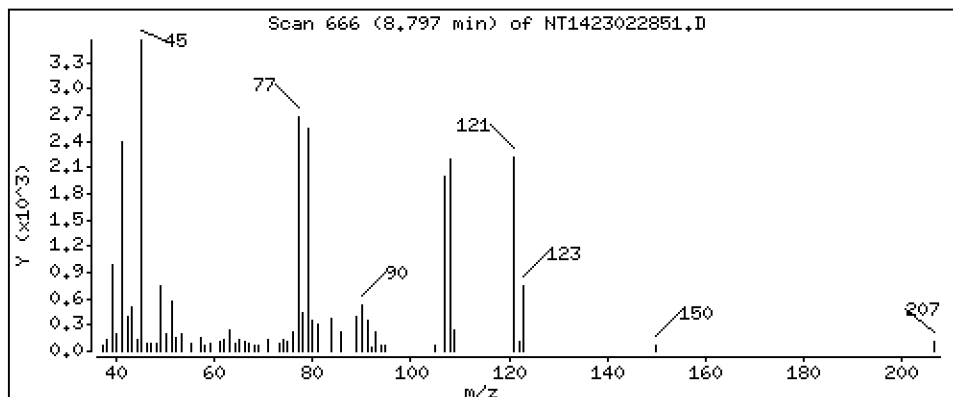
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 0,5373 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

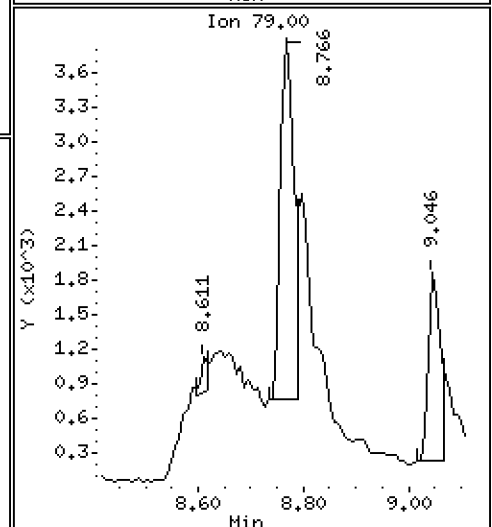
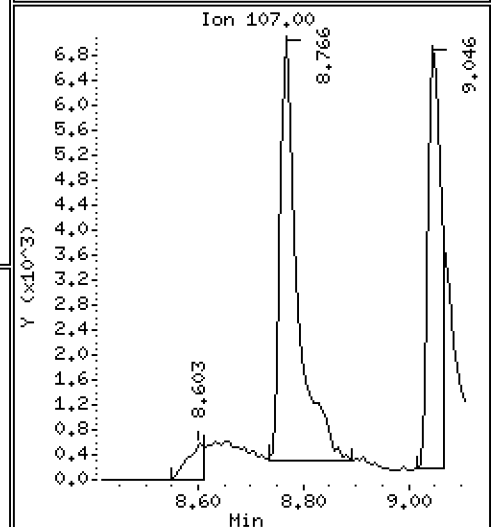
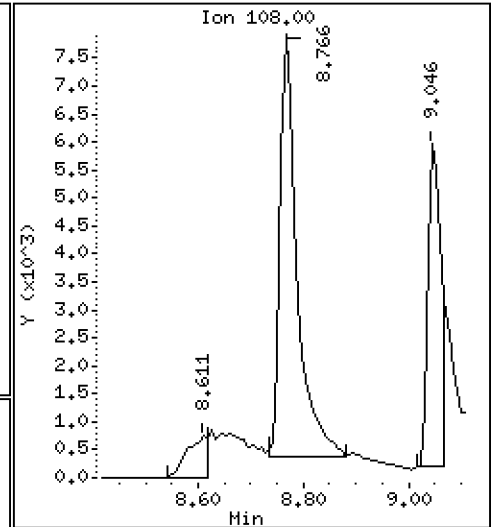
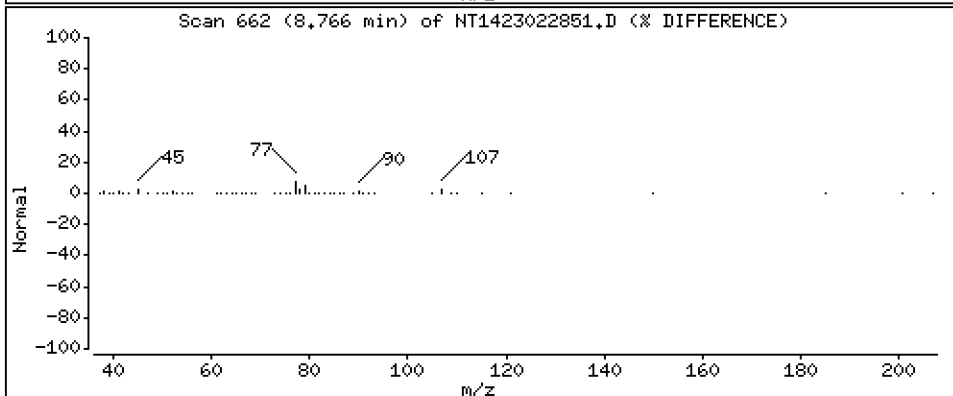
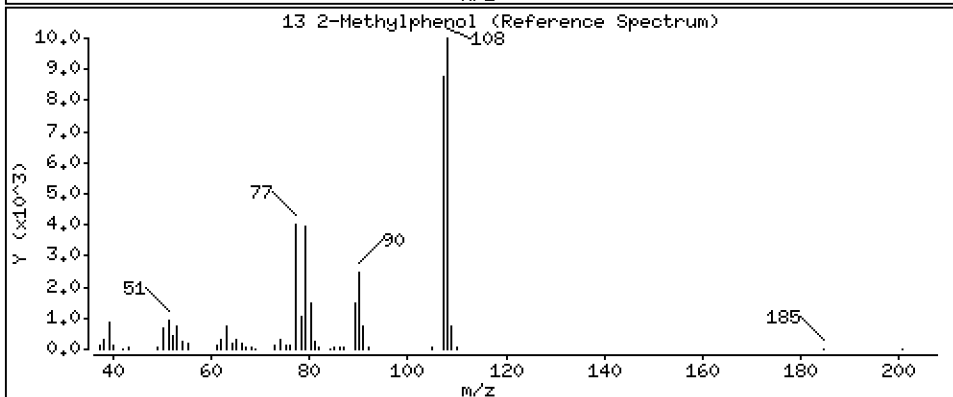
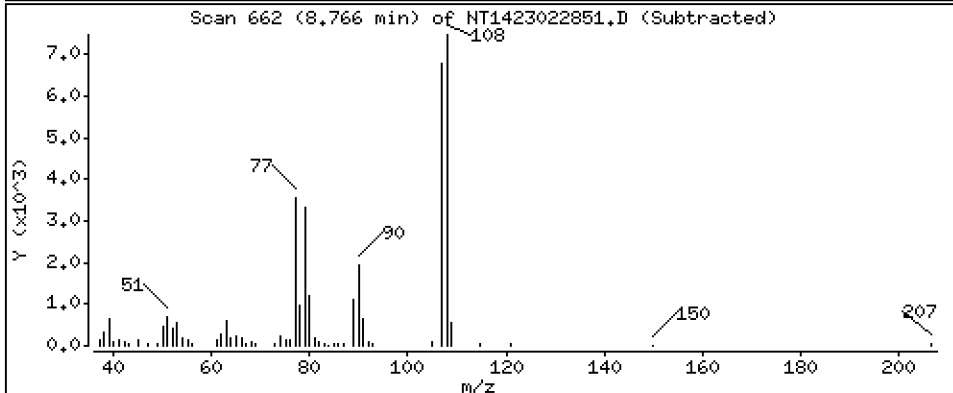
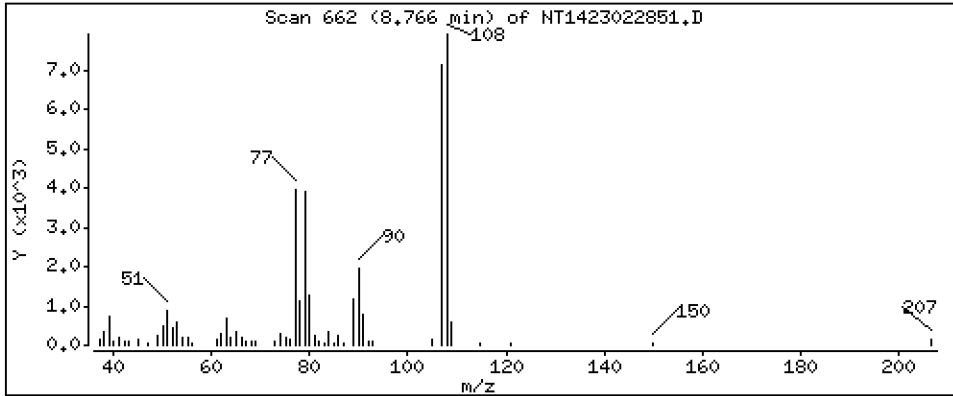
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

Concentration: 0.5113 ug/mL

13 2-Methylphenol



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

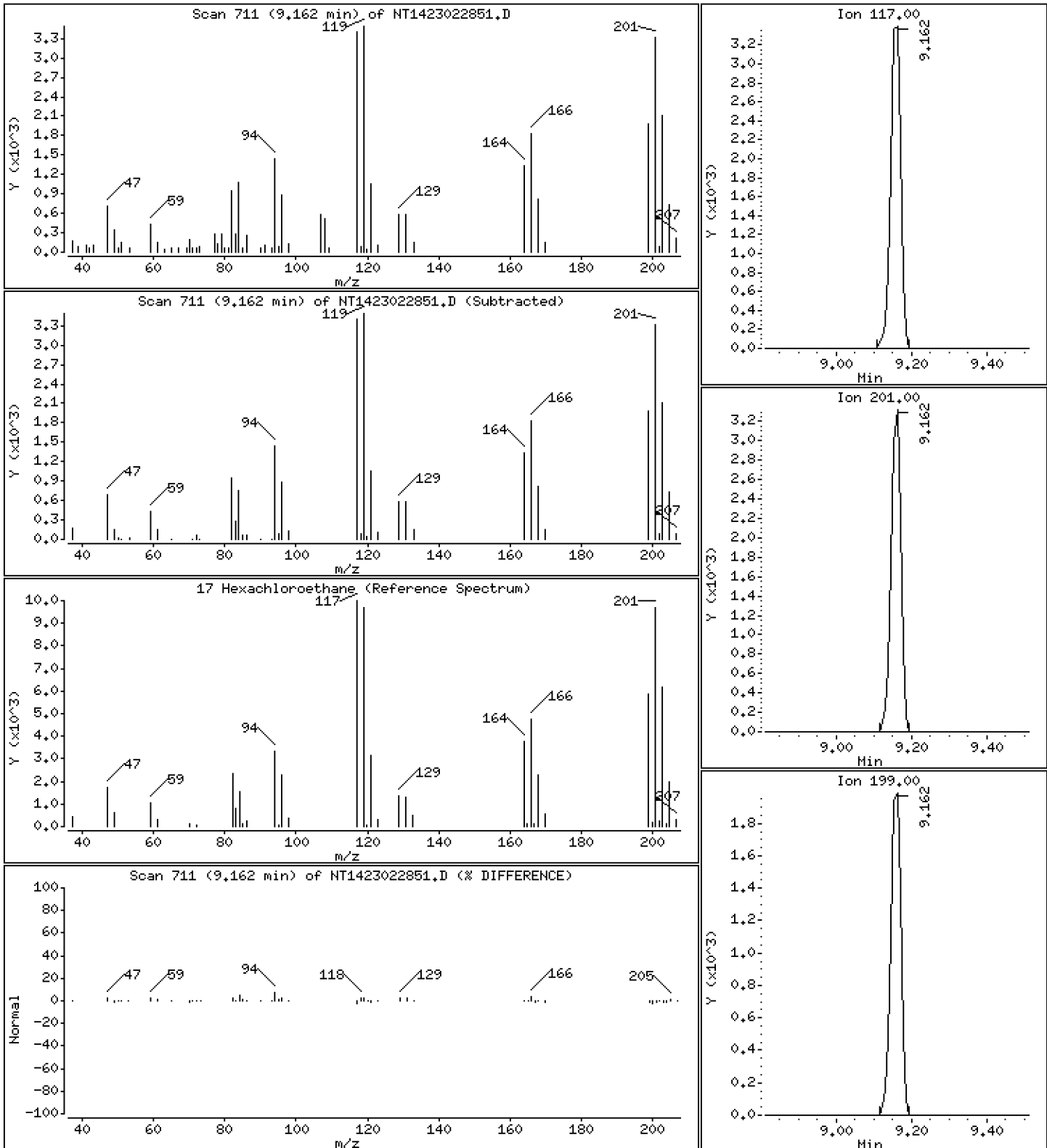
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 0.3900 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

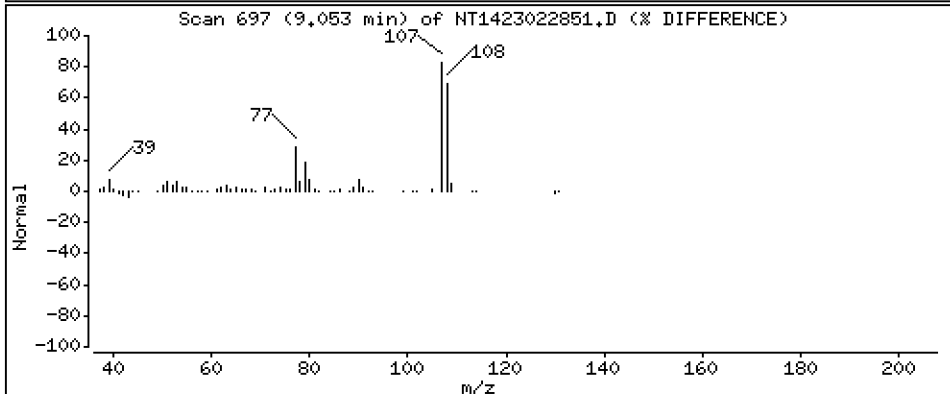
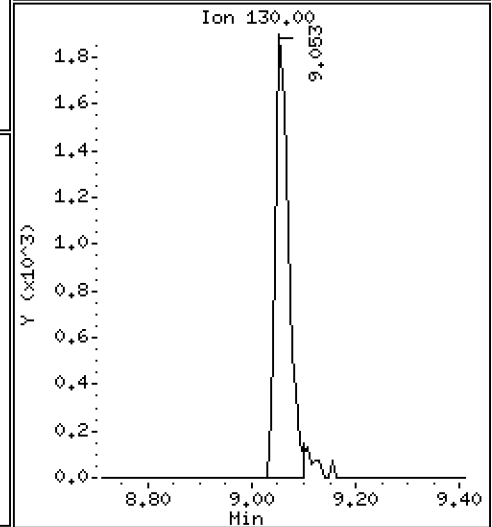
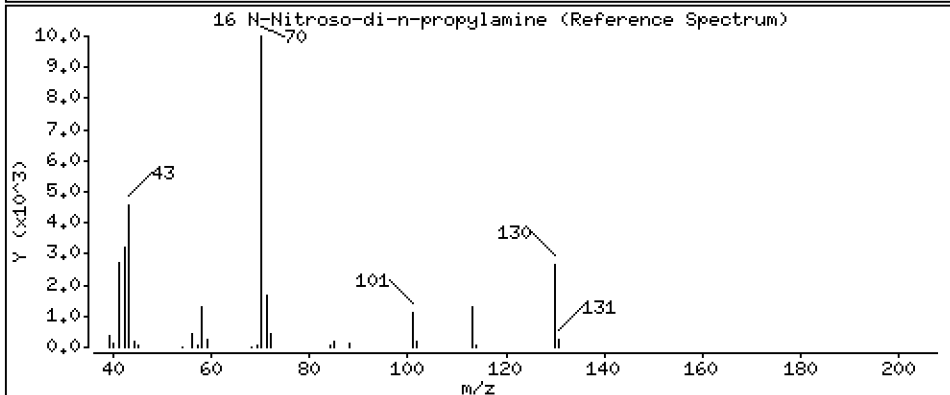
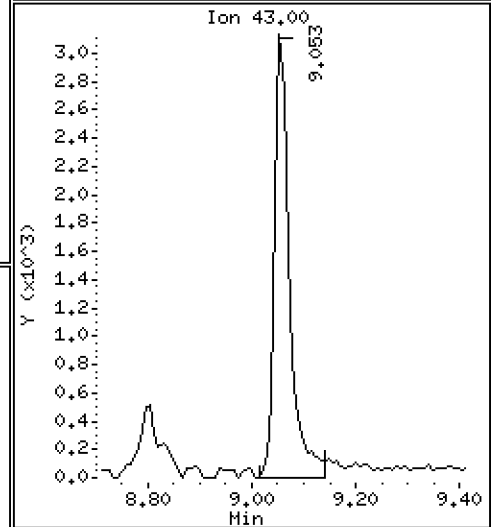
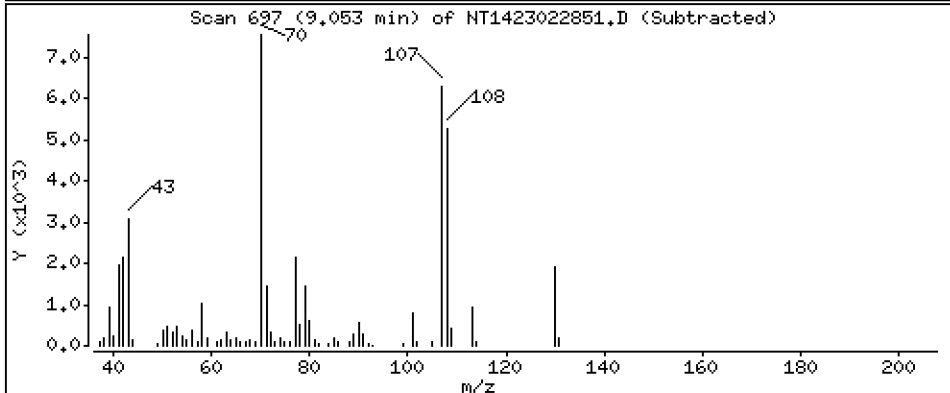
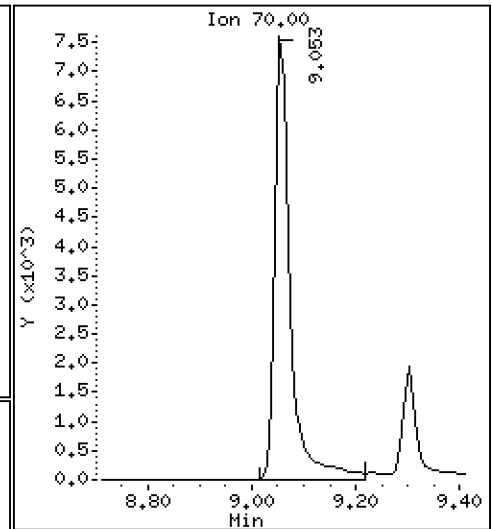
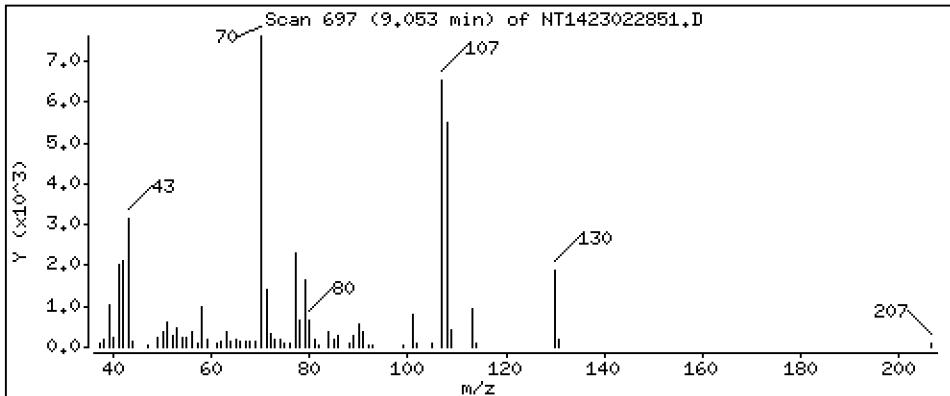
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,6127 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

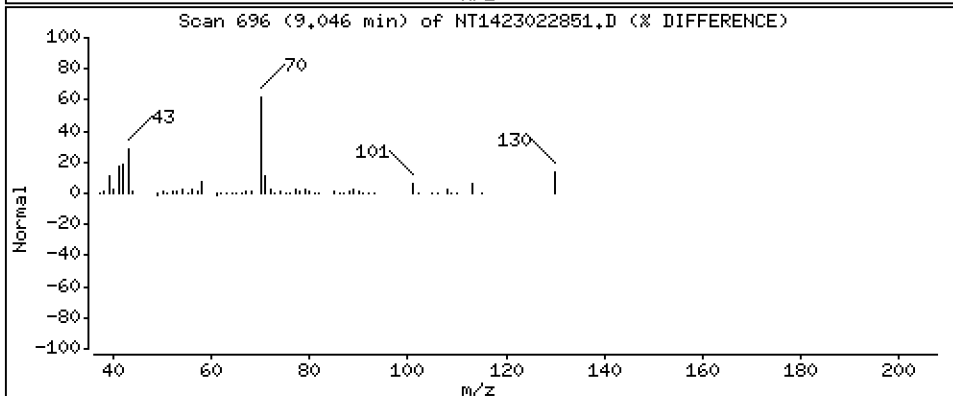
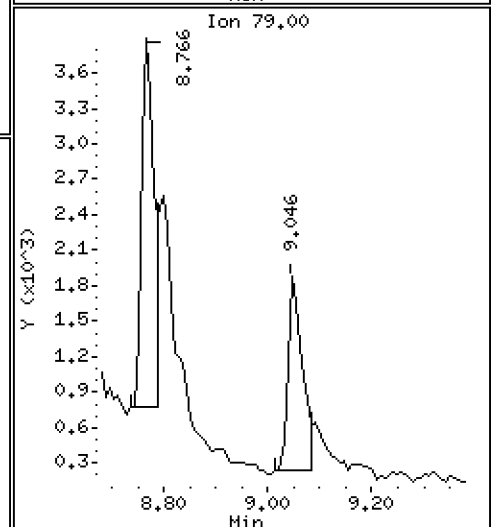
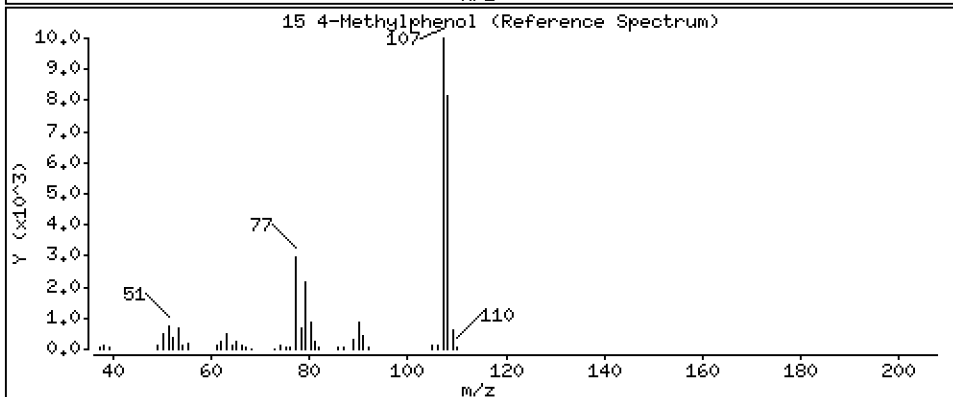
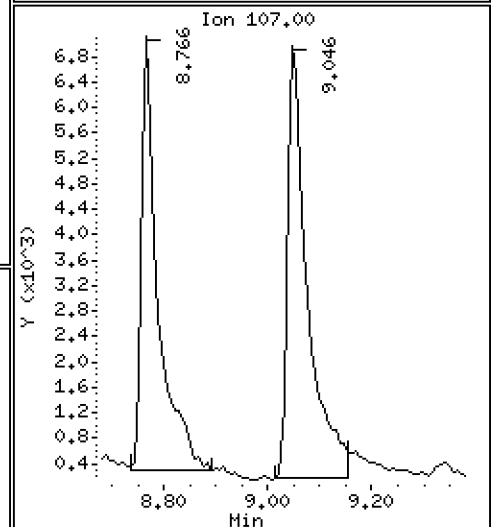
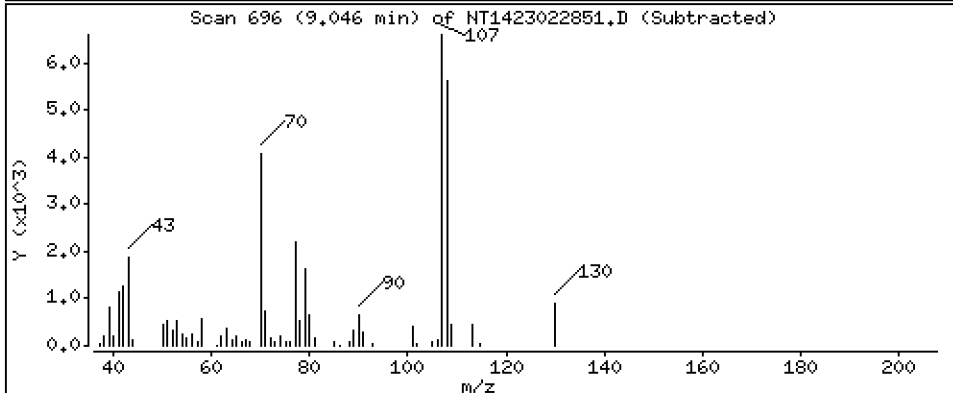
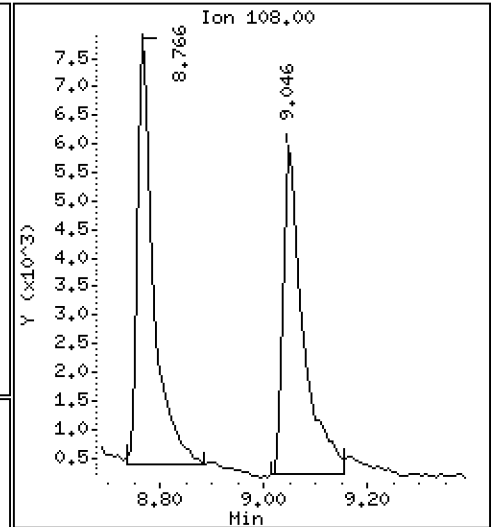
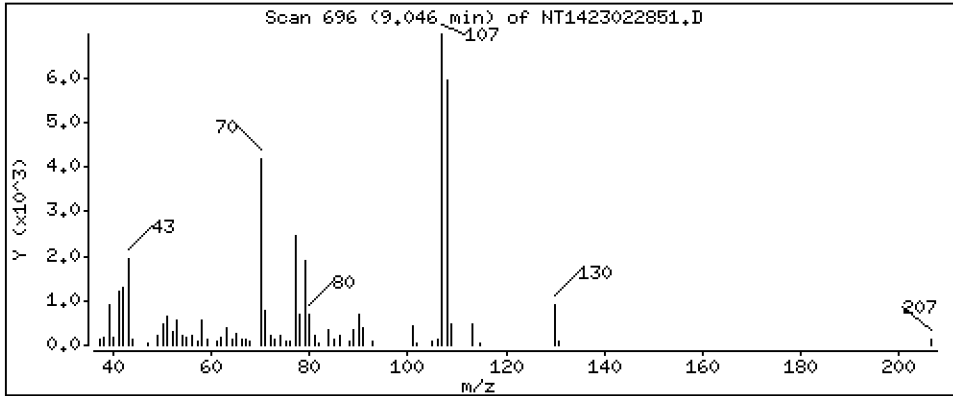
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.4112 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

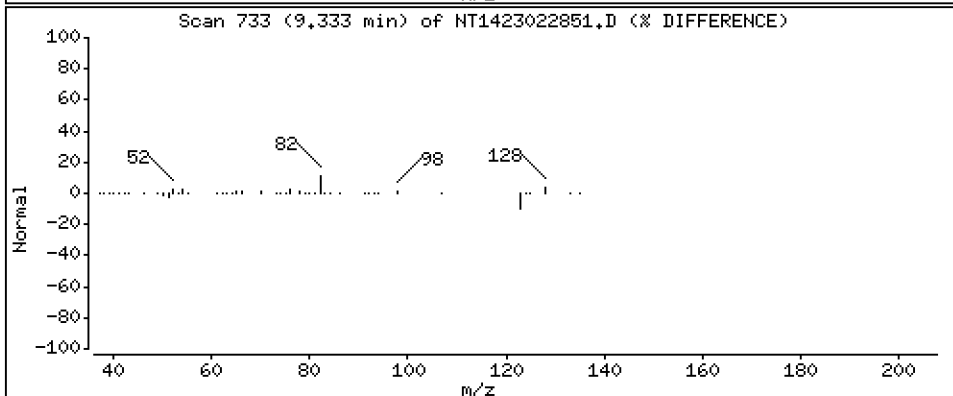
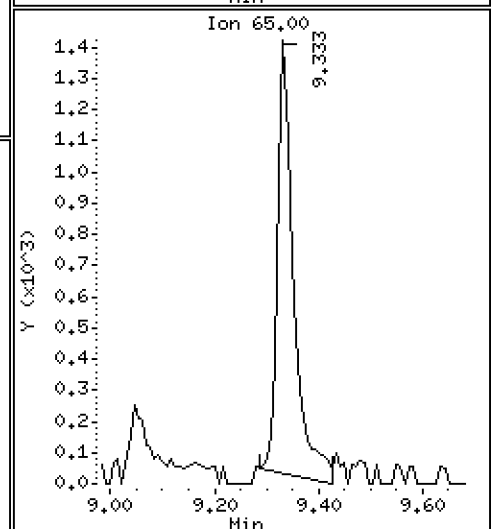
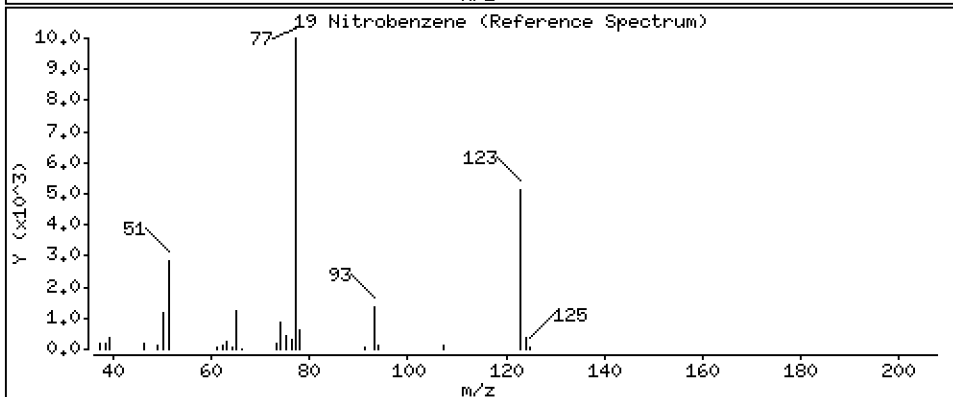
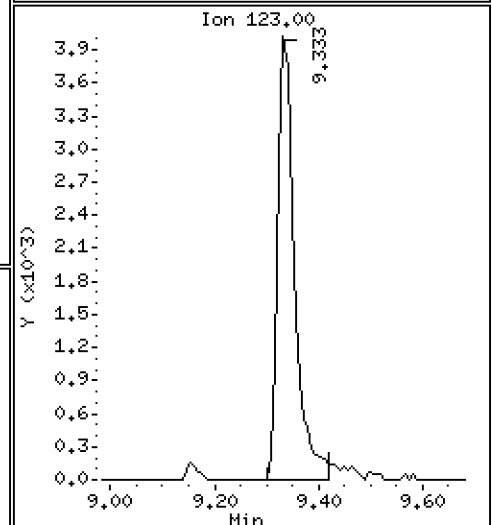
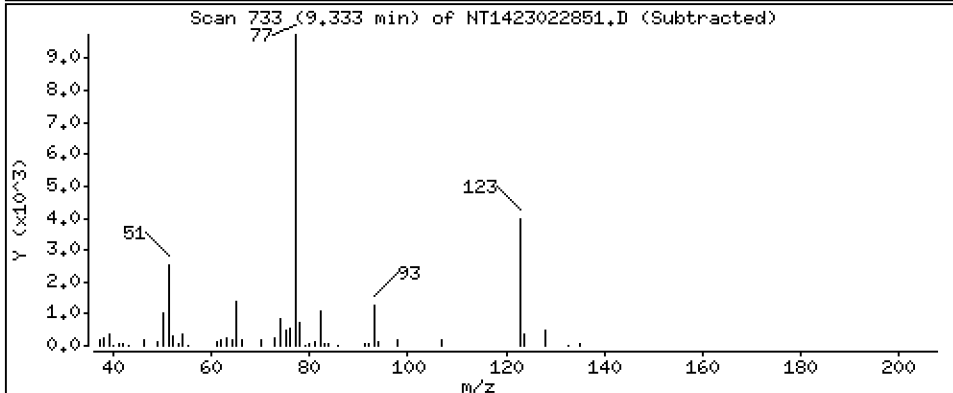
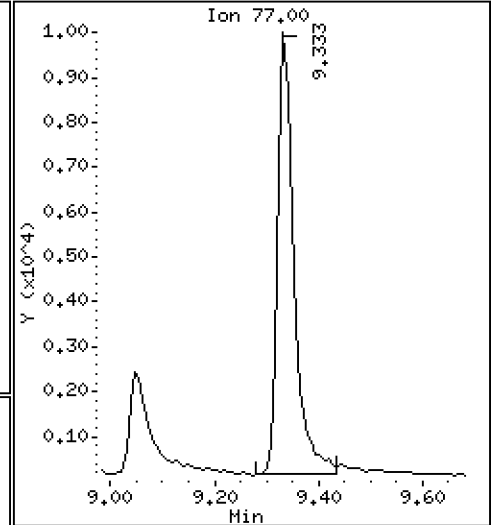
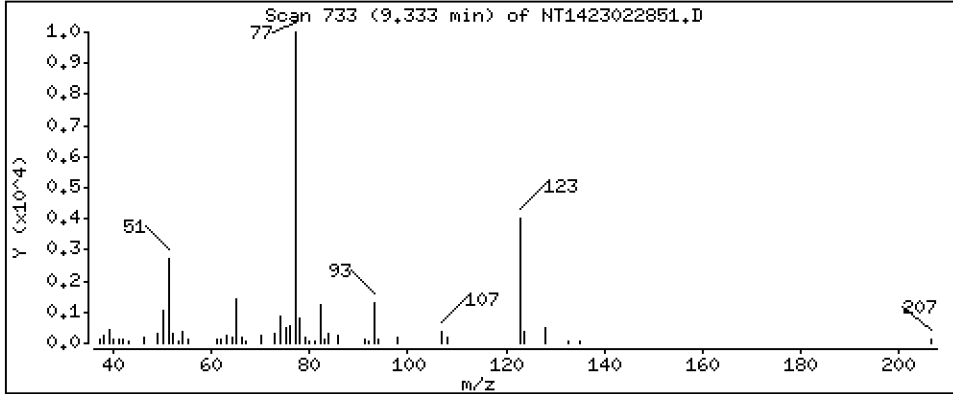
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,5427 ug/mL

19 Nitrobenzene



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

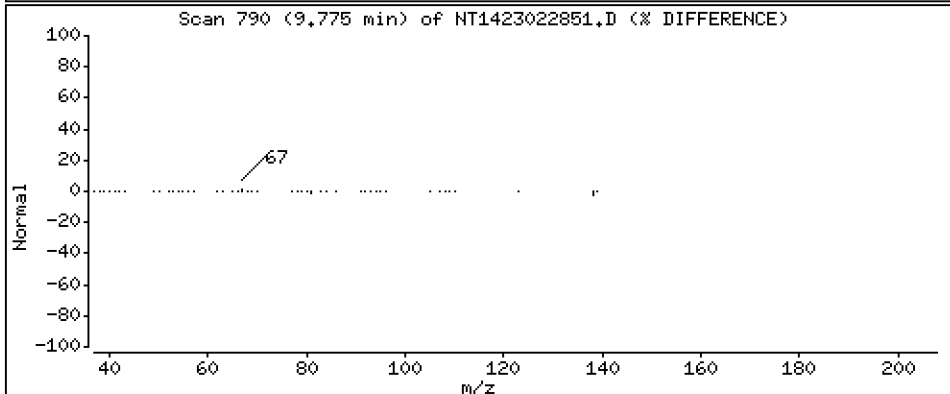
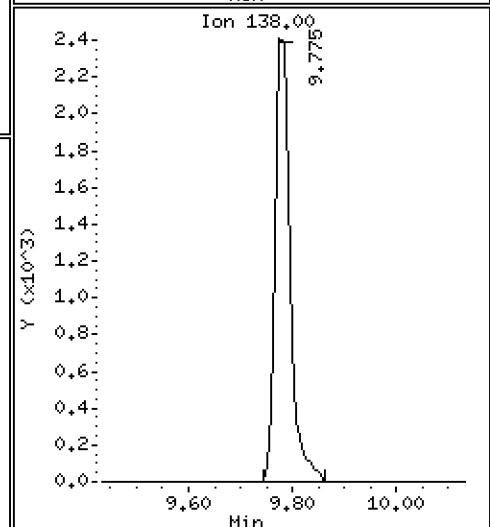
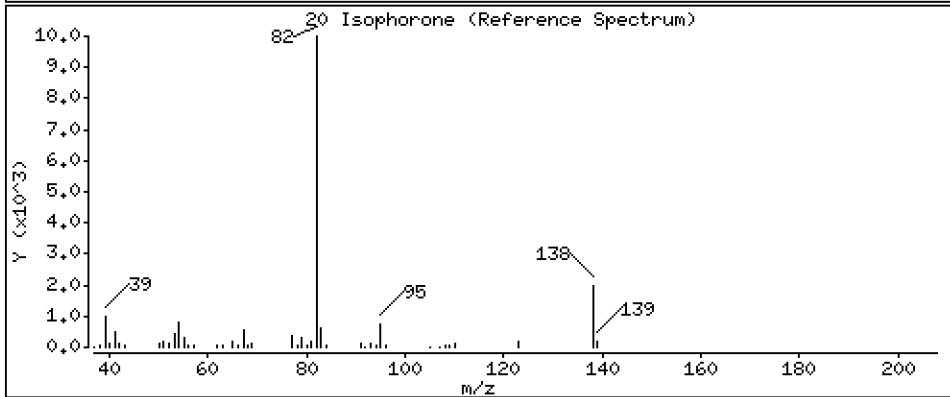
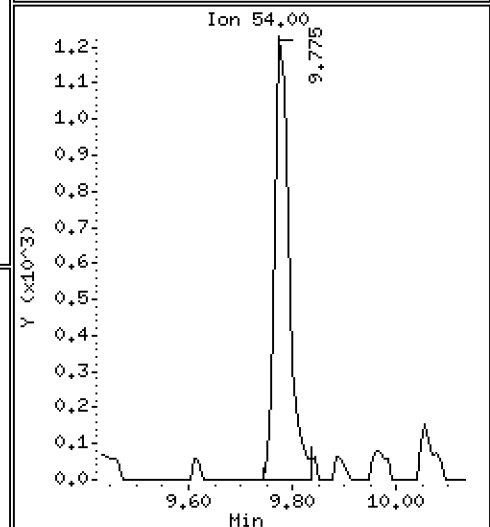
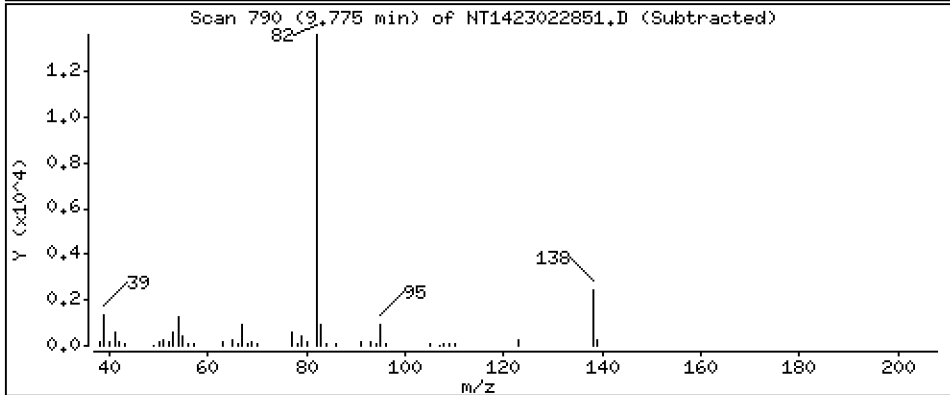
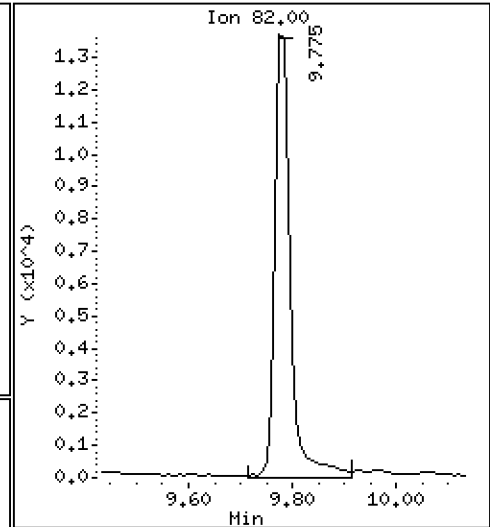
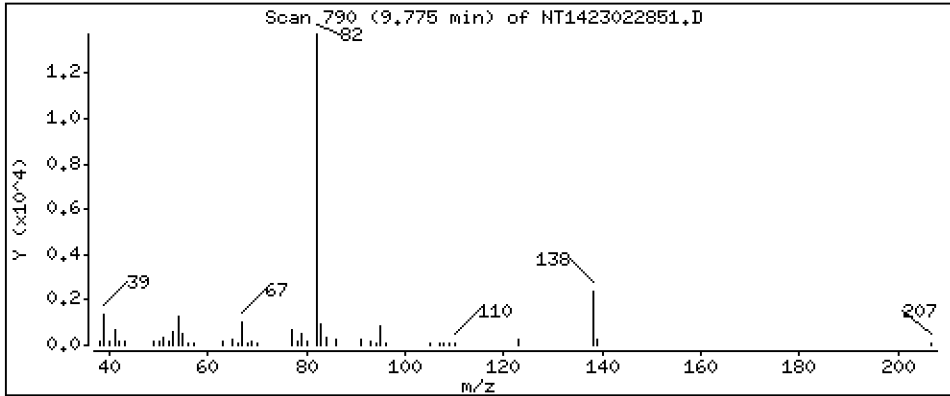
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.4990 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

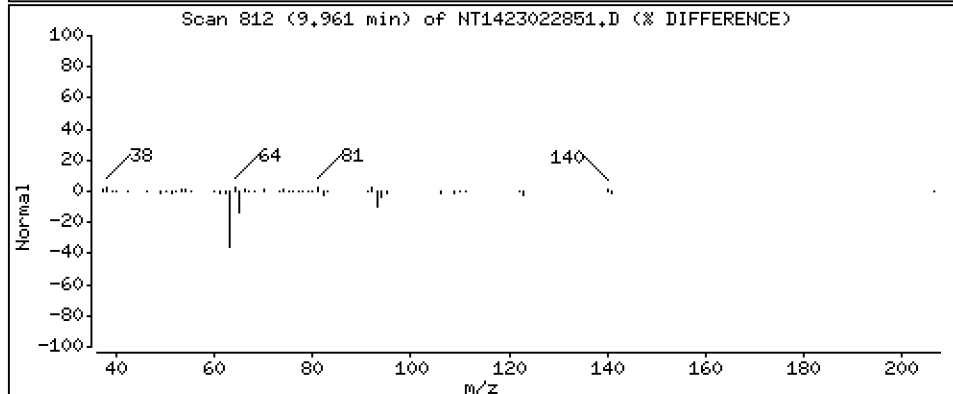
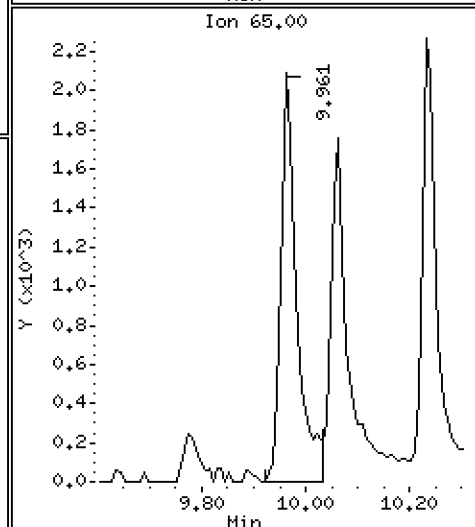
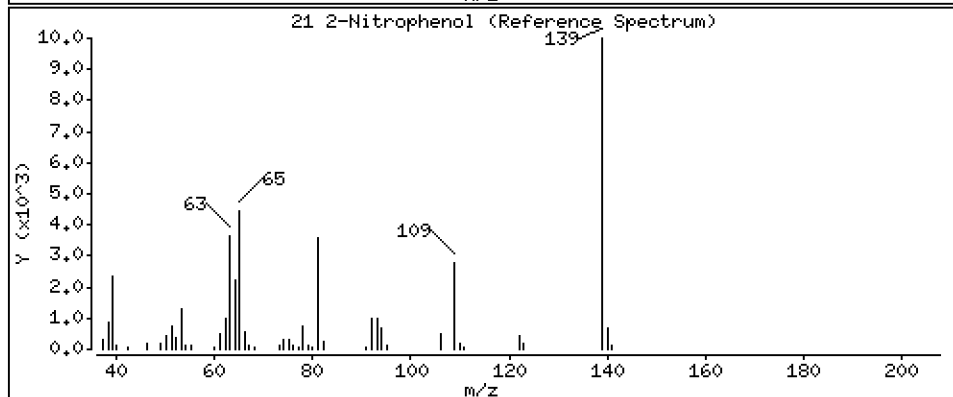
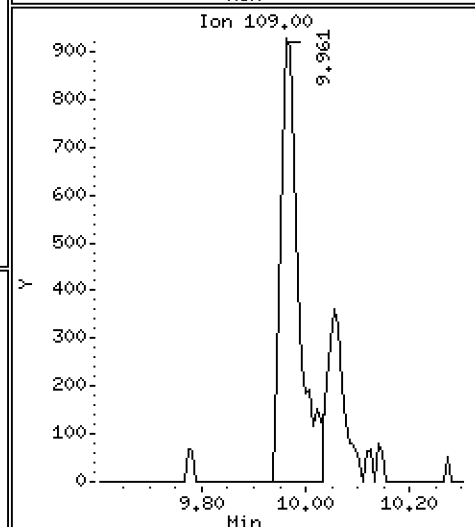
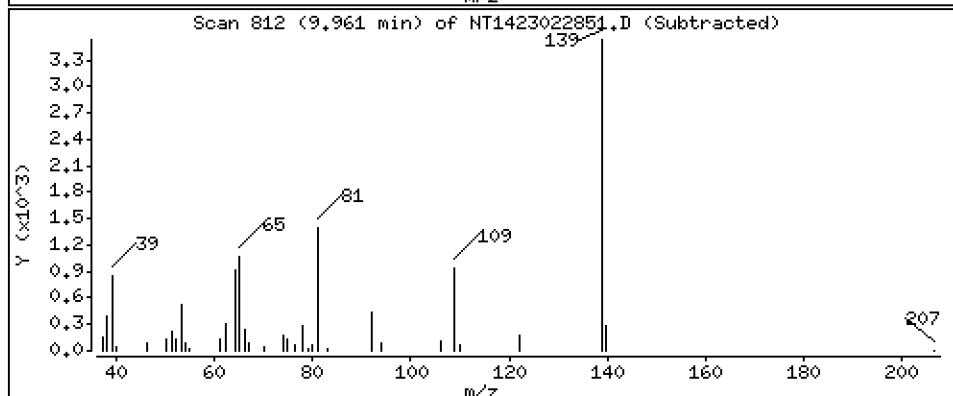
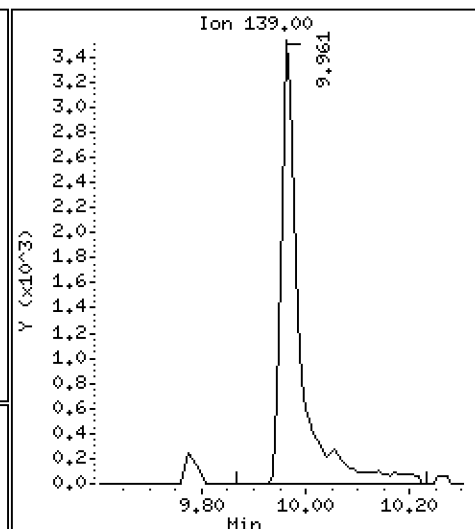
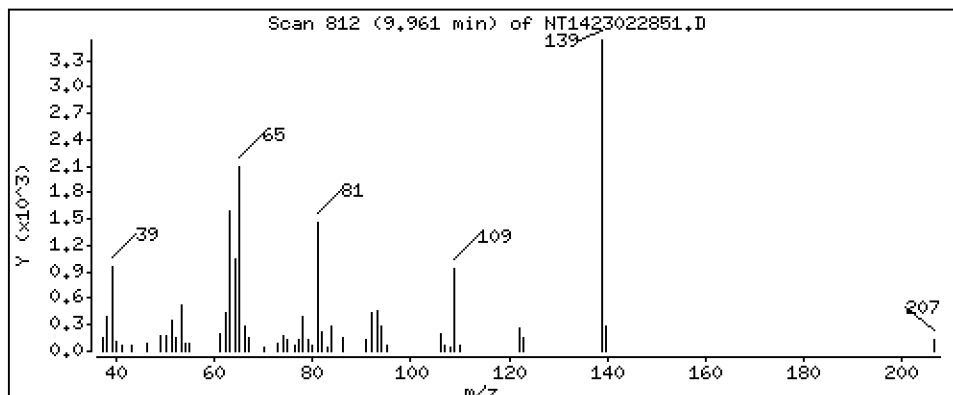
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

21 2-Nitrophenol

Concentration: 0.4685 ug/mL





Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

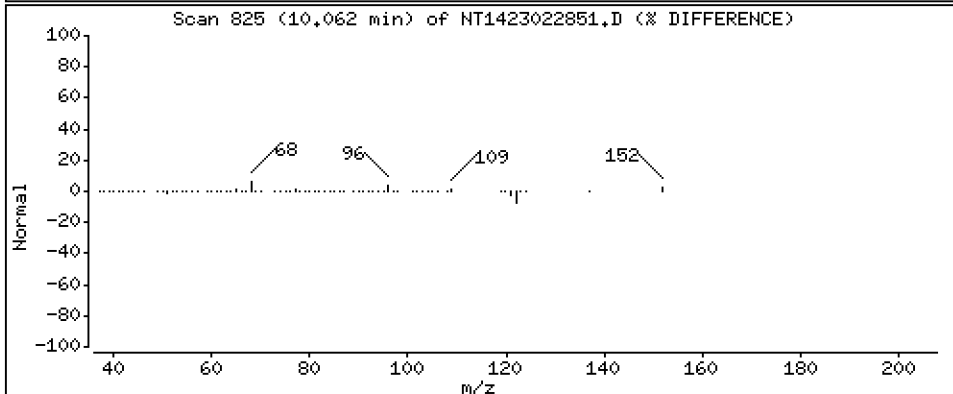
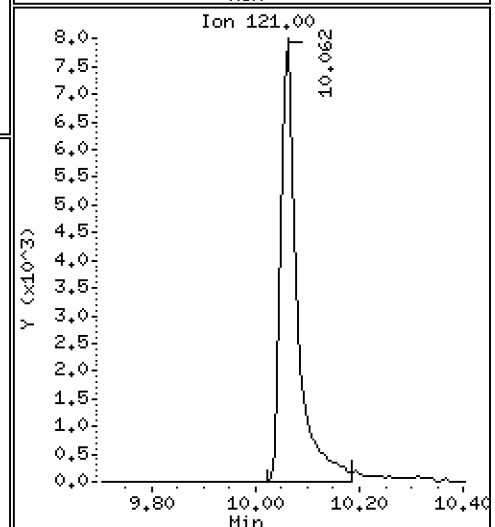
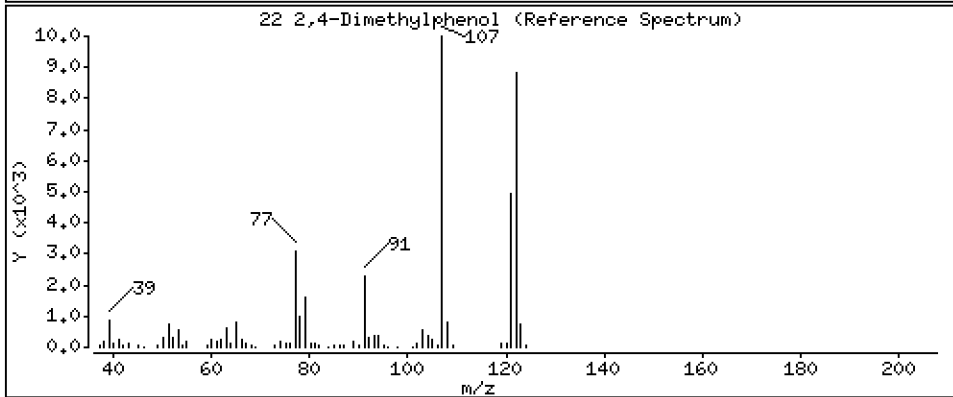
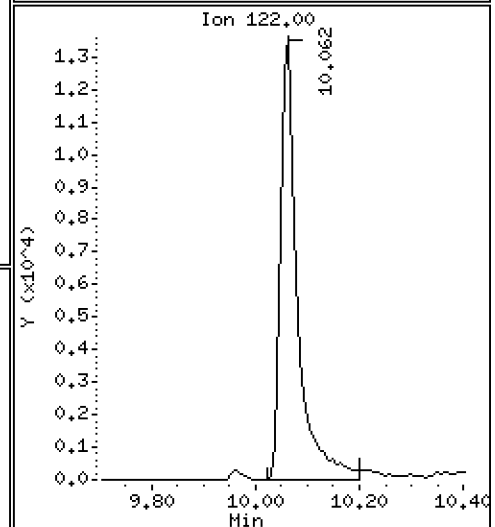
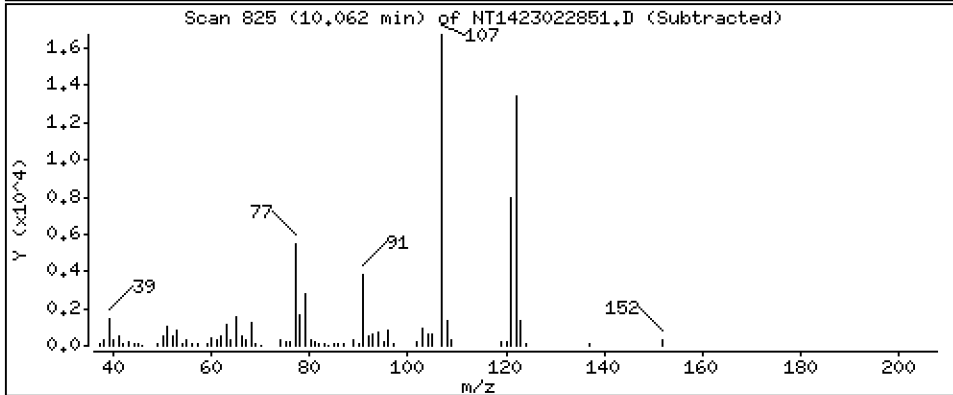
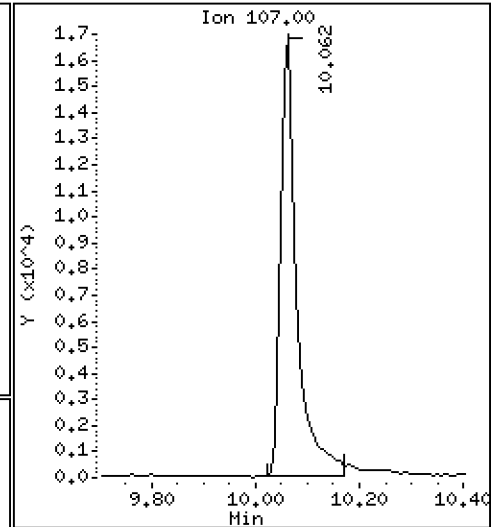
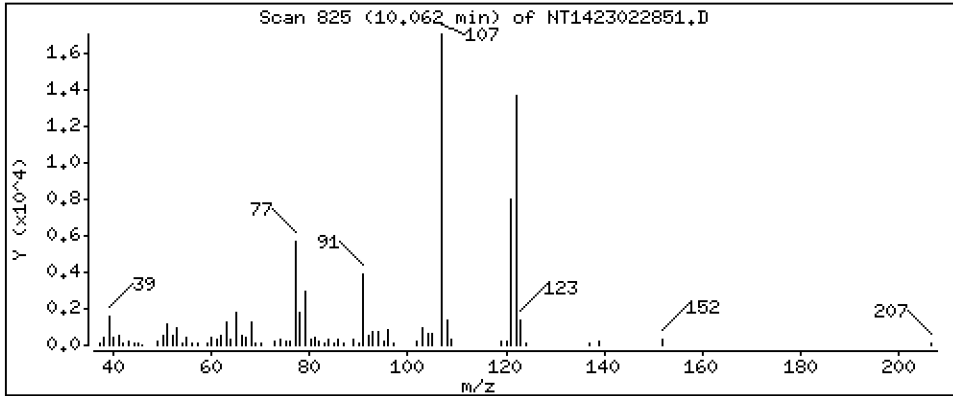
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 1,033 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

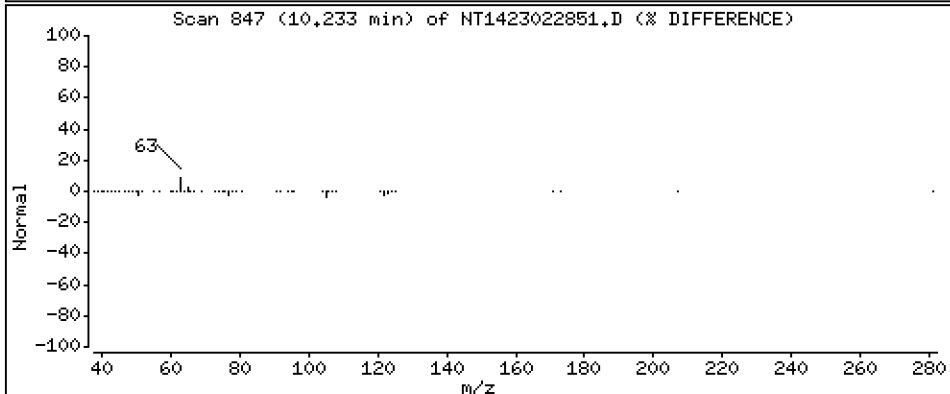
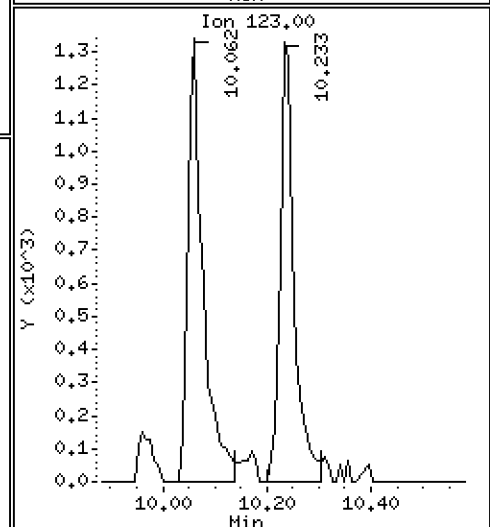
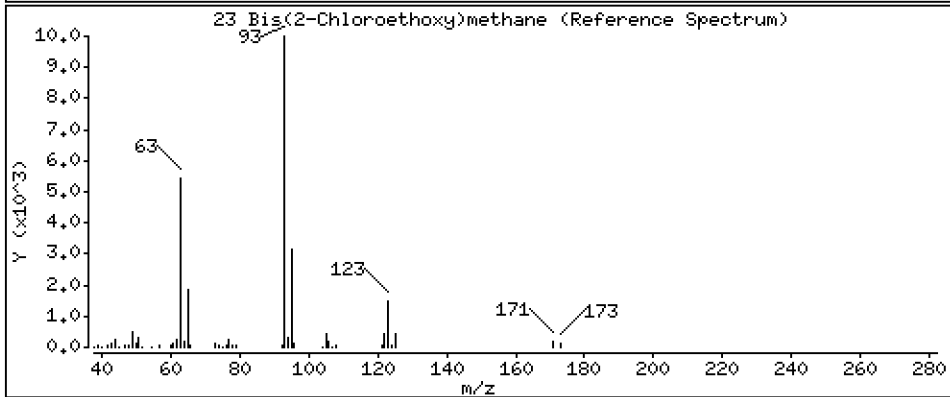
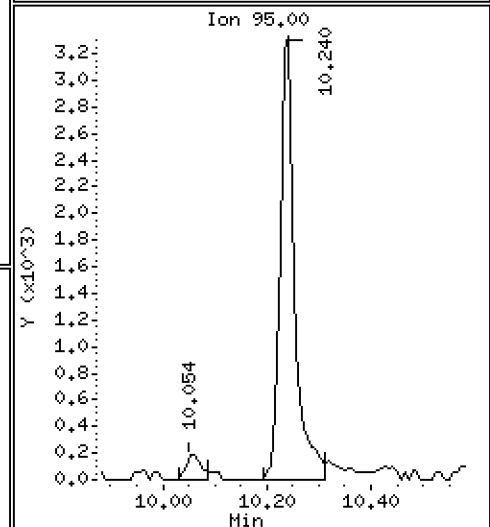
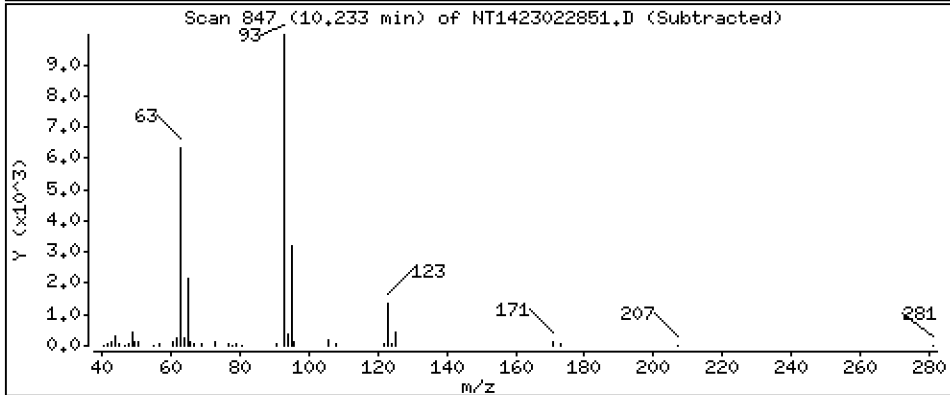
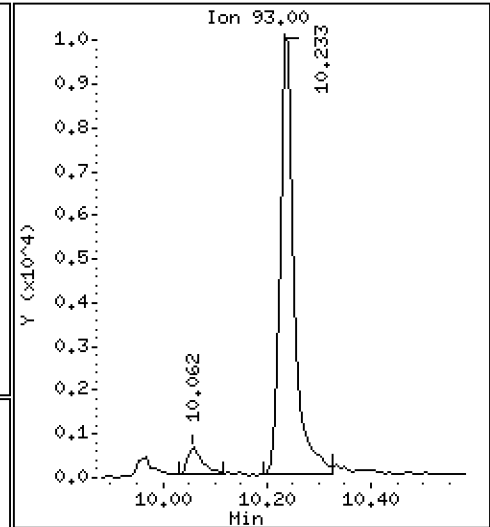
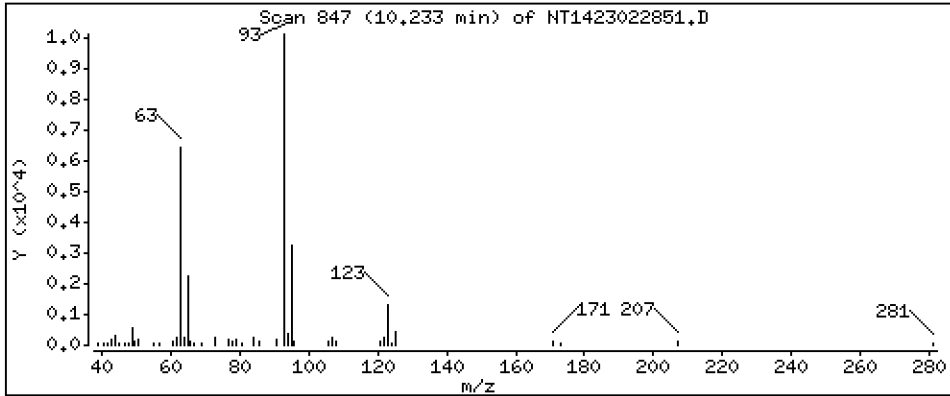
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,5015 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

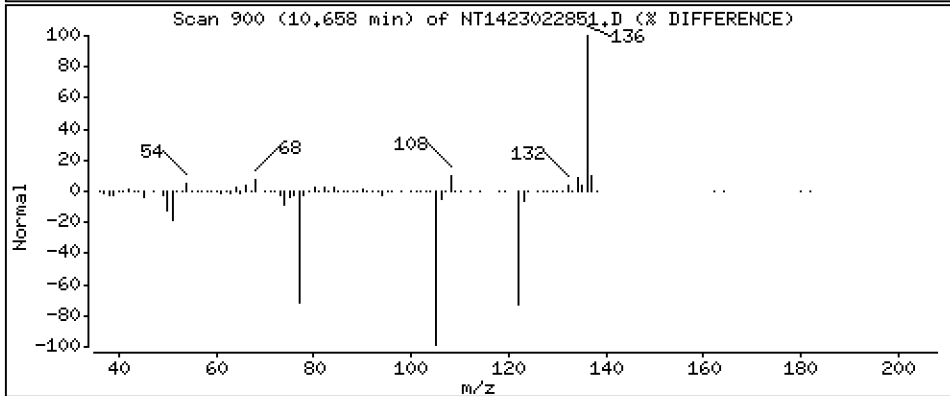
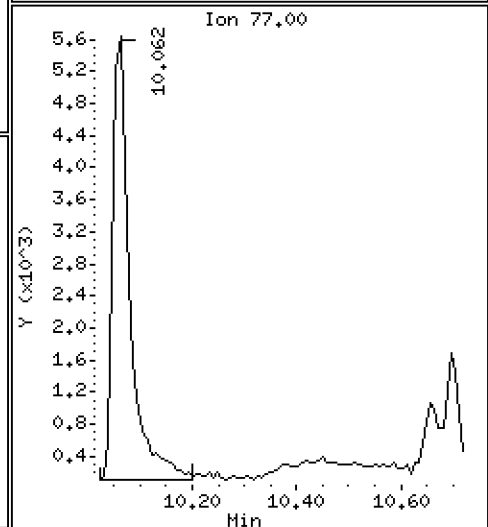
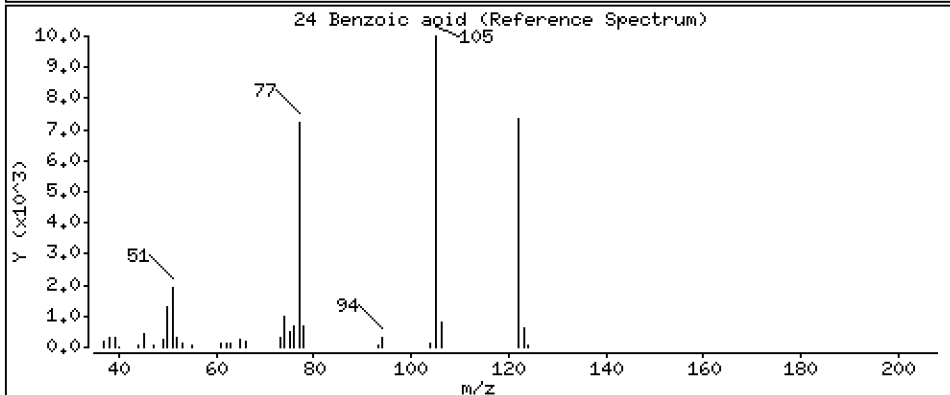
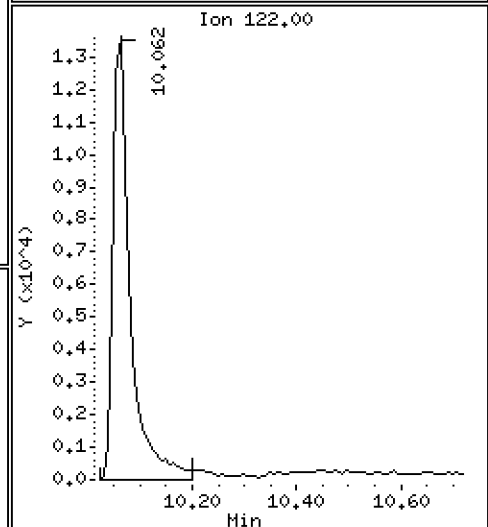
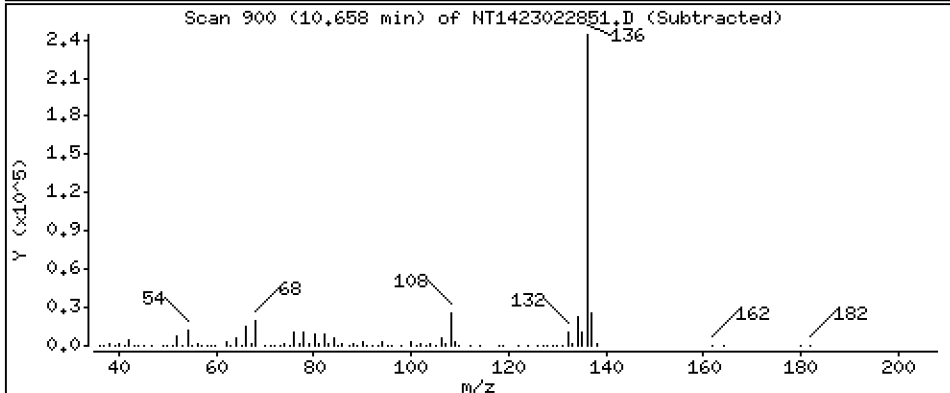
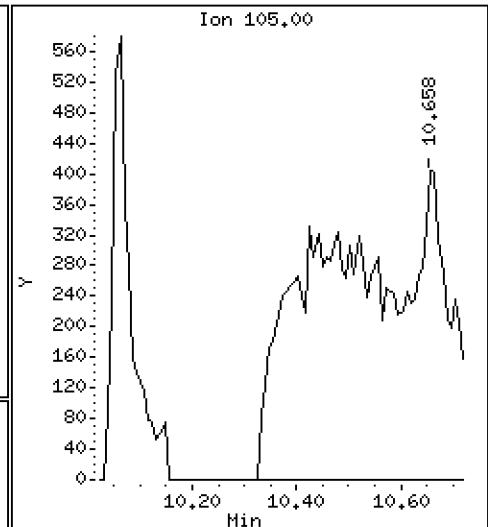
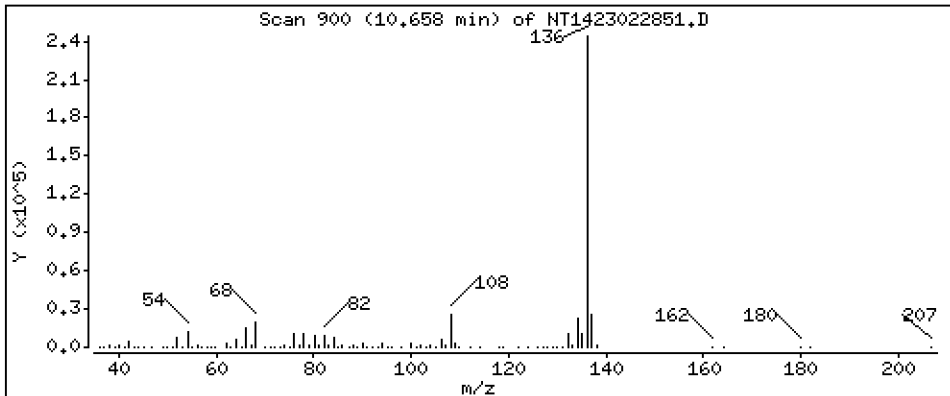
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 1,087 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

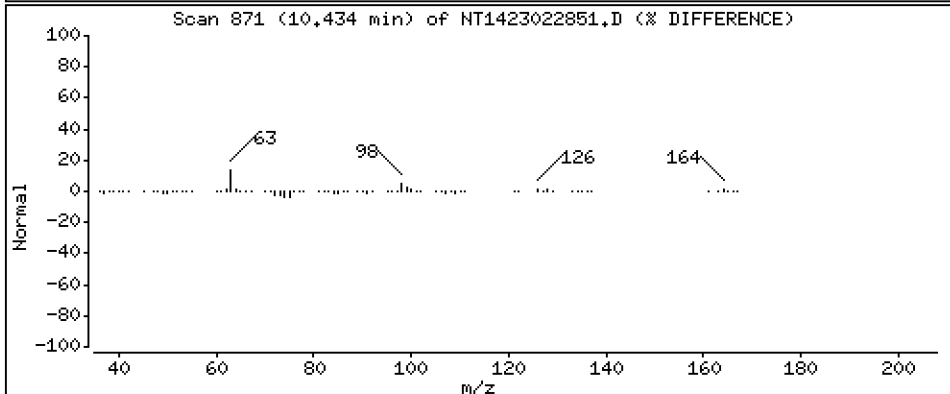
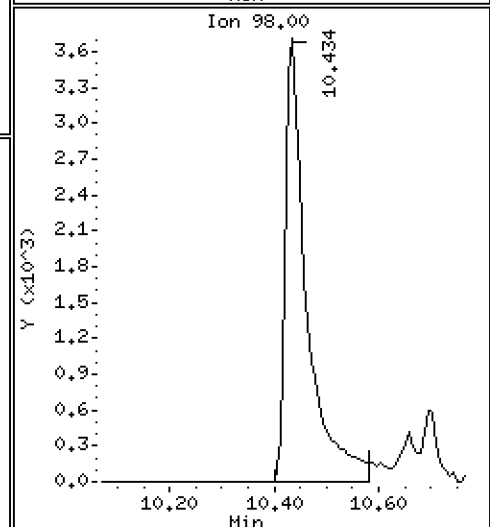
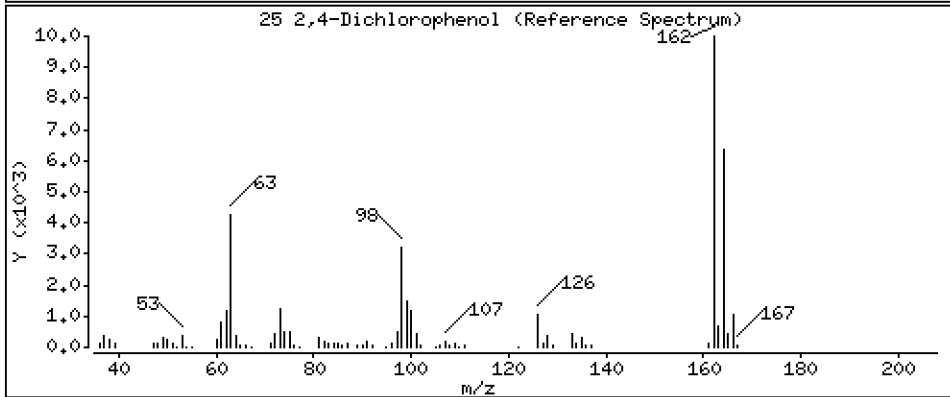
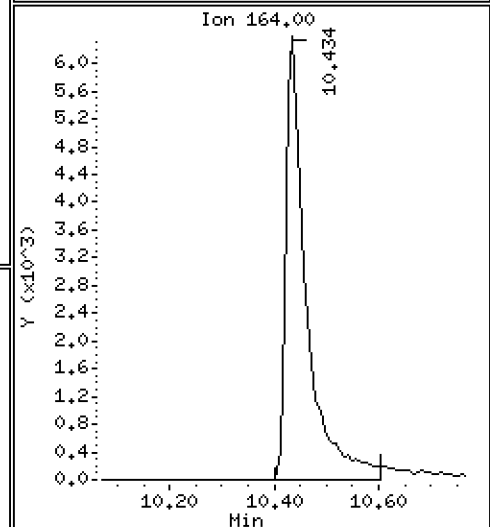
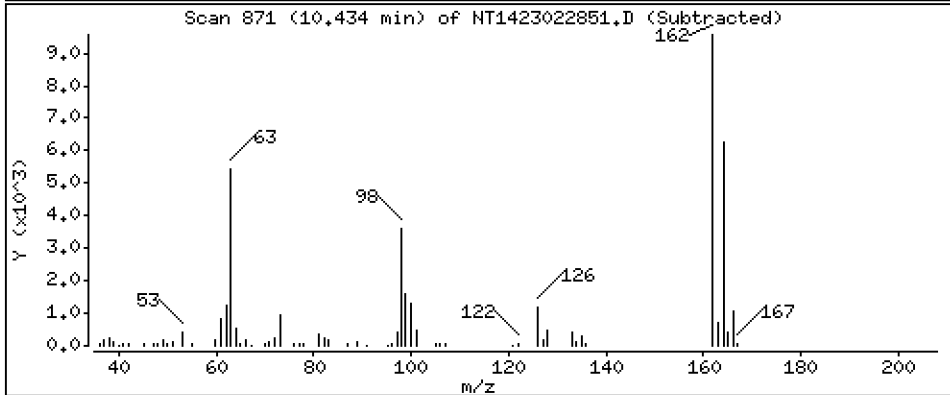
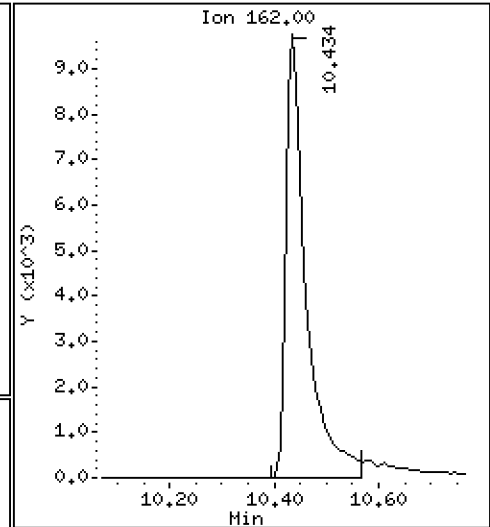
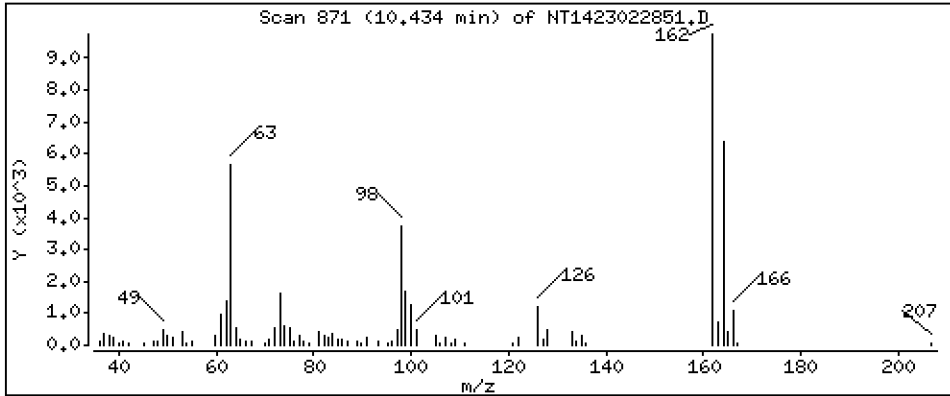
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,7757 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

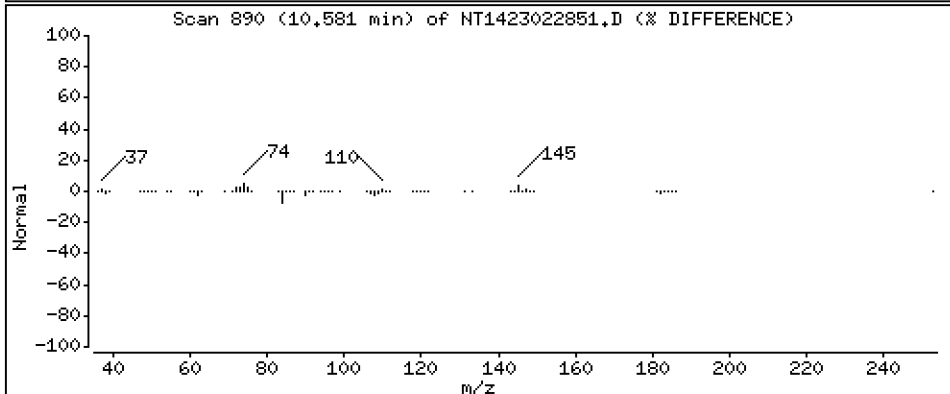
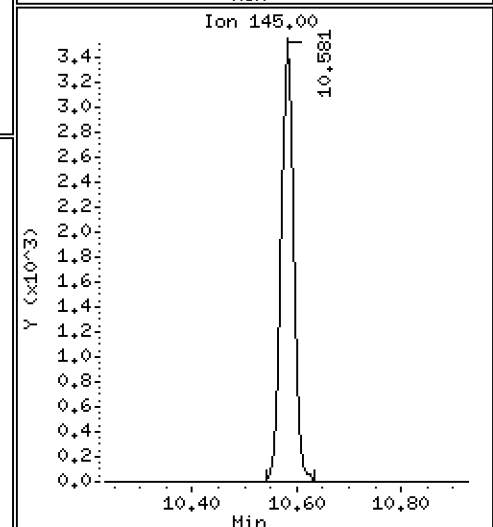
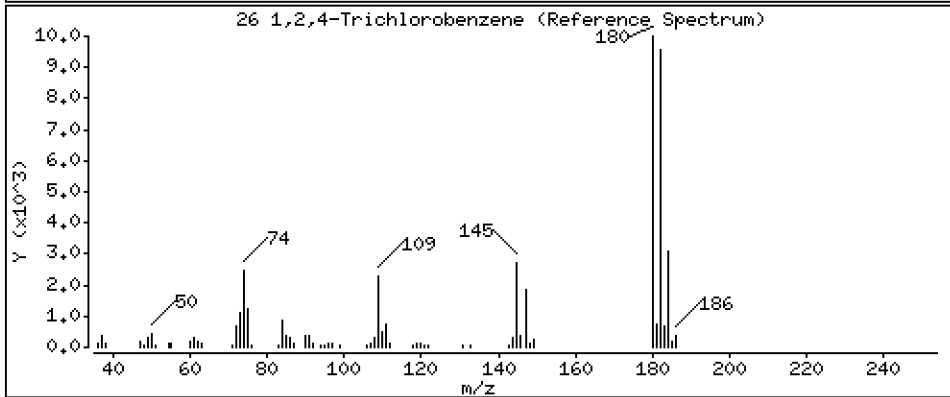
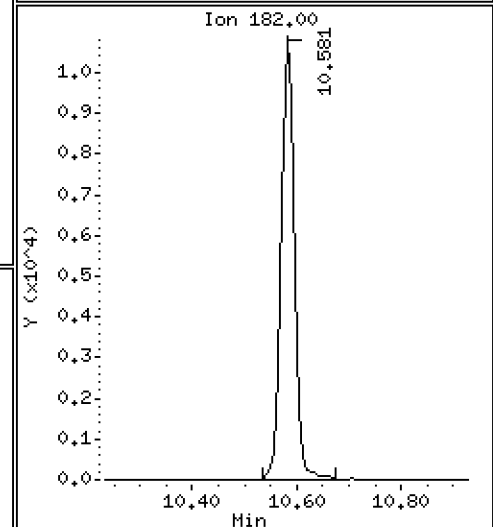
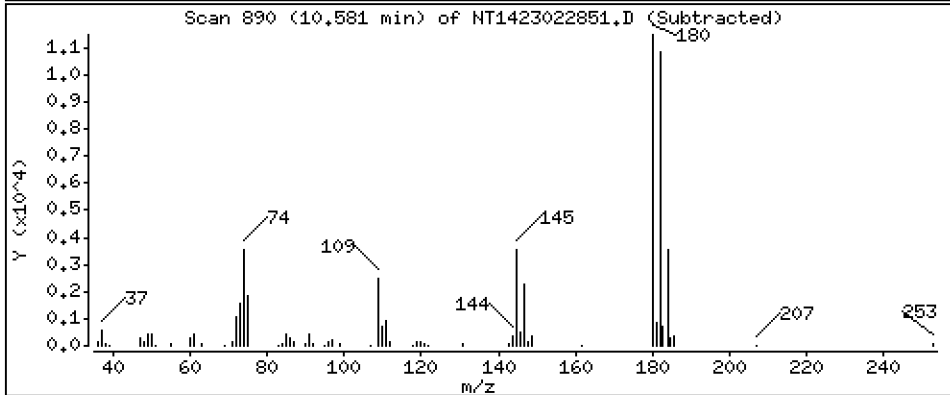
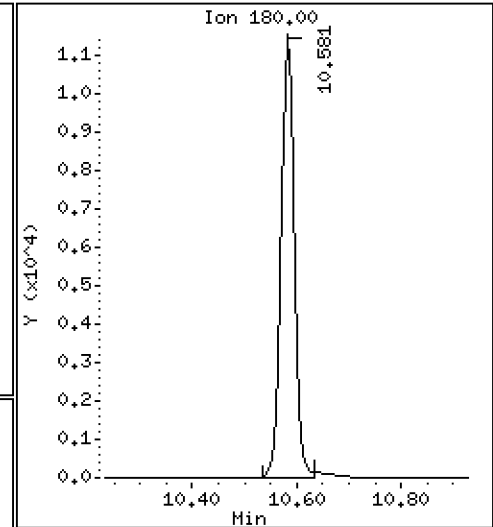
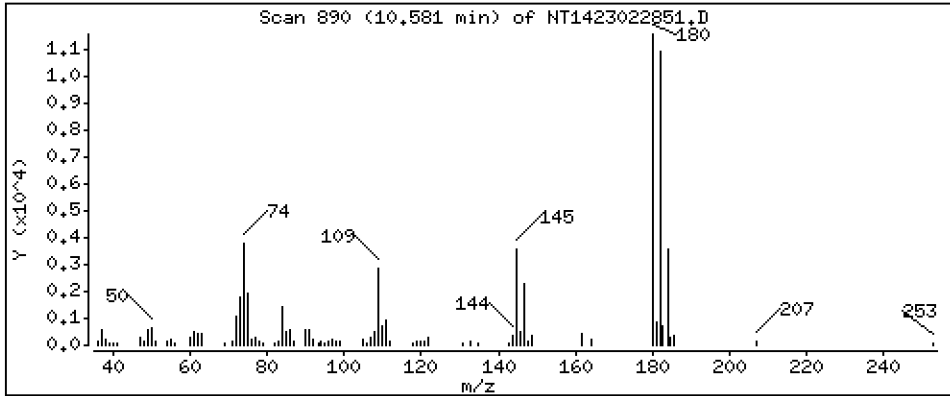
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,4890 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

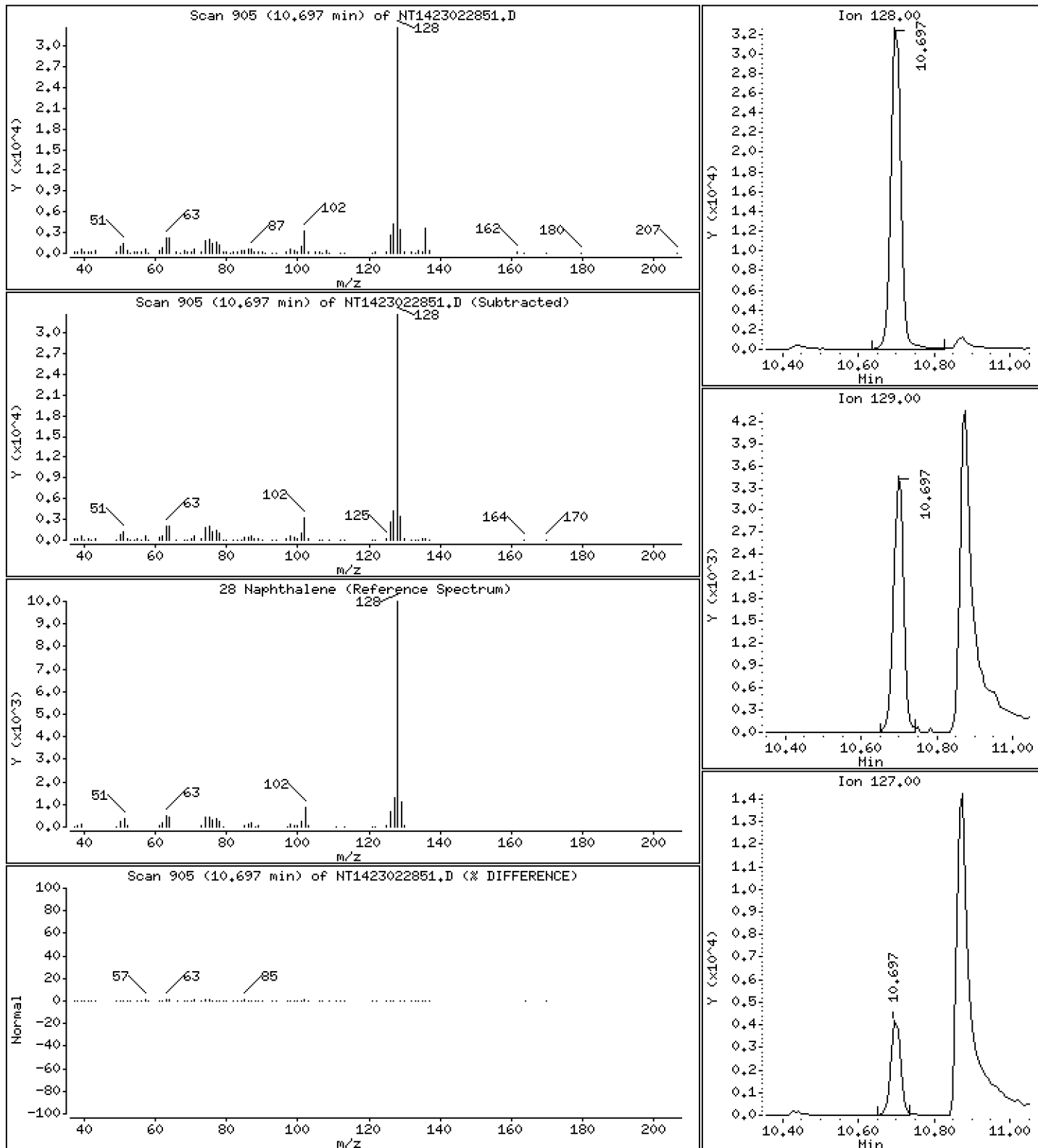
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,5296 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

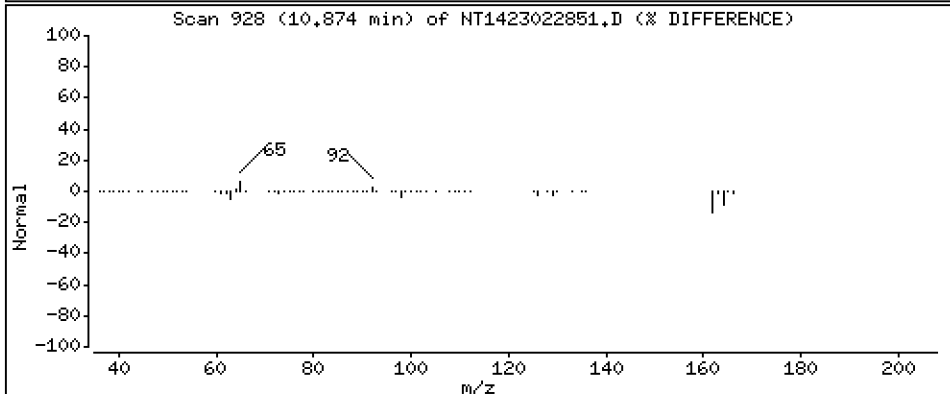
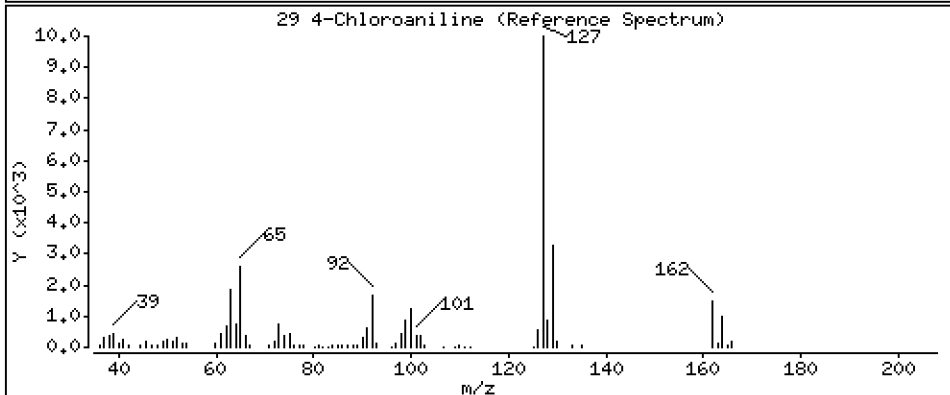
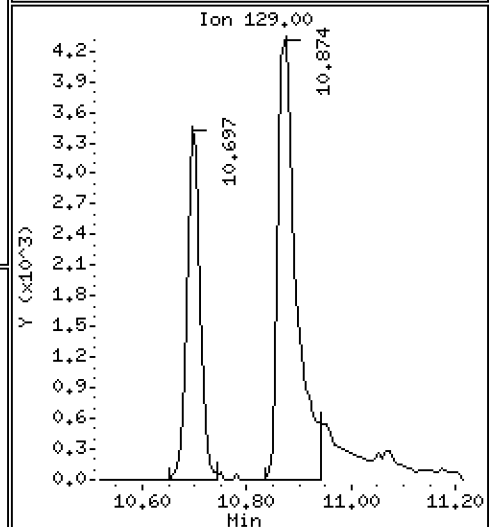
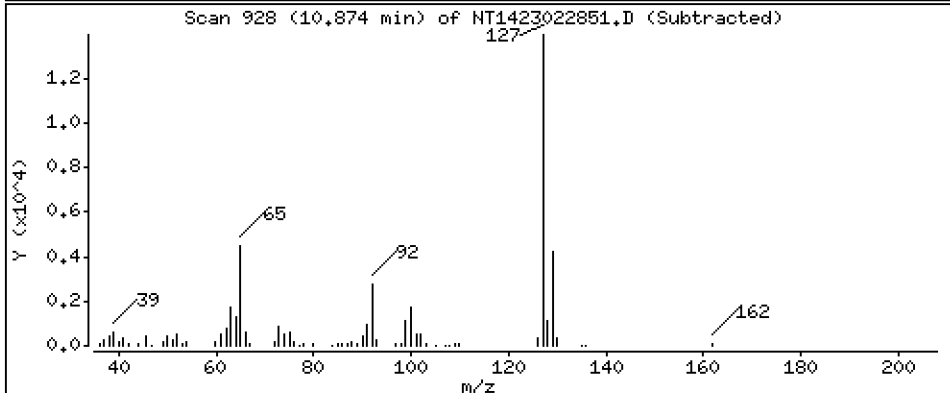
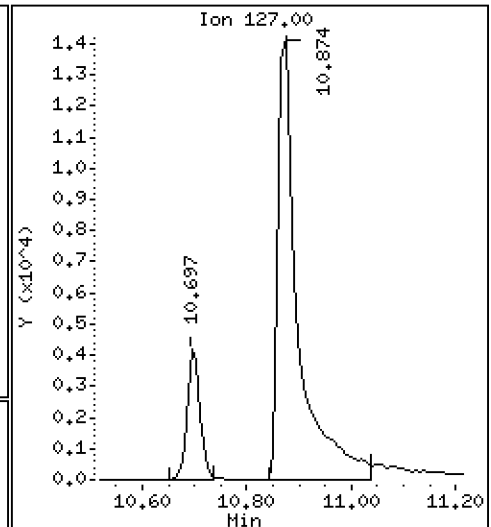
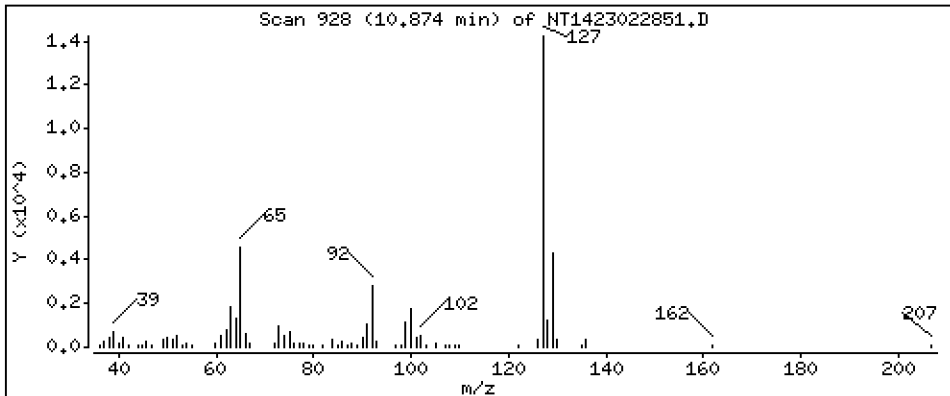
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,8631 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

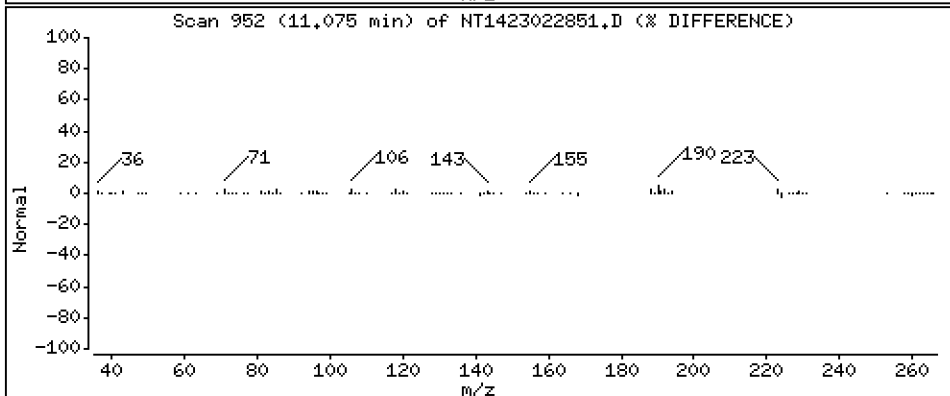
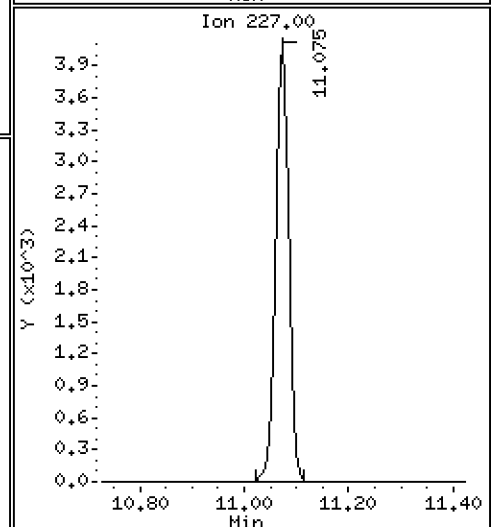
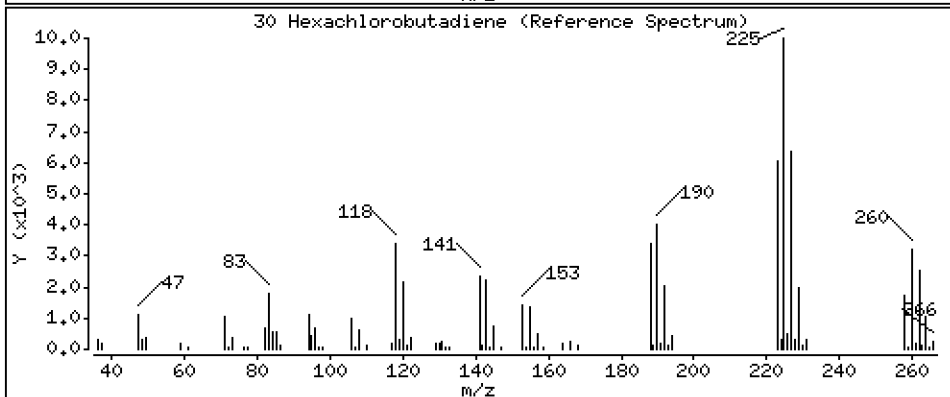
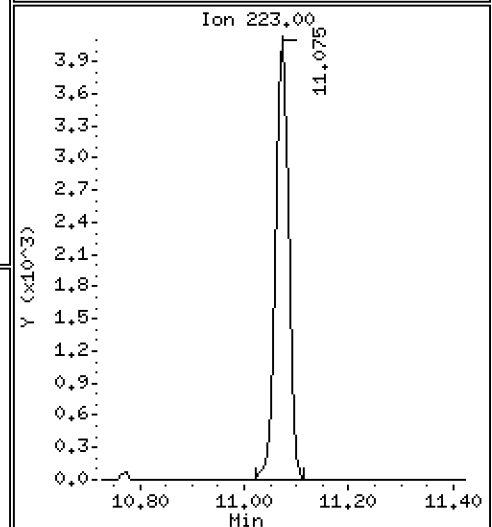
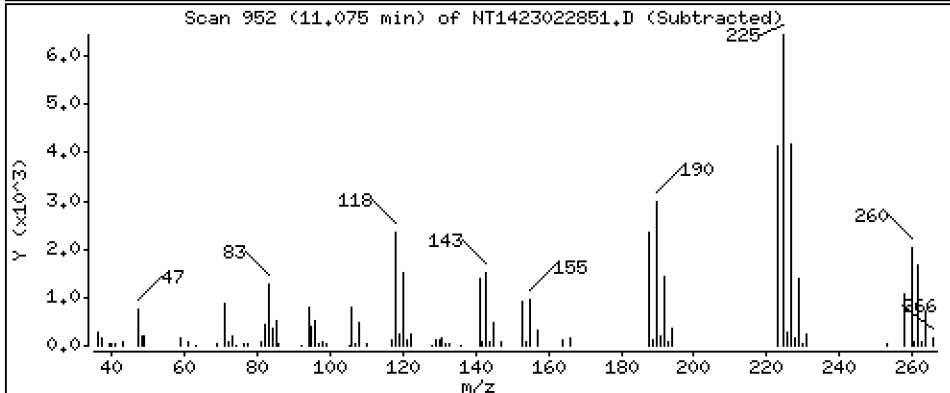
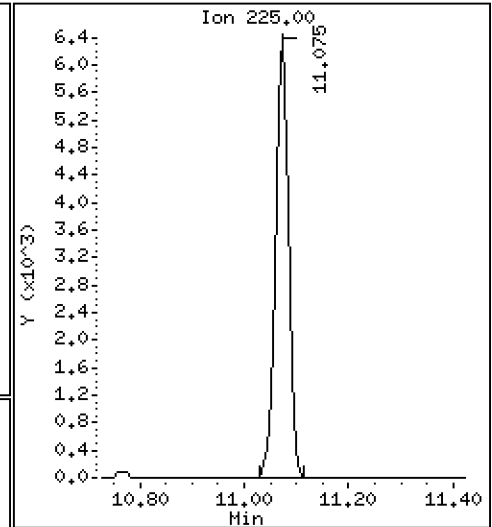
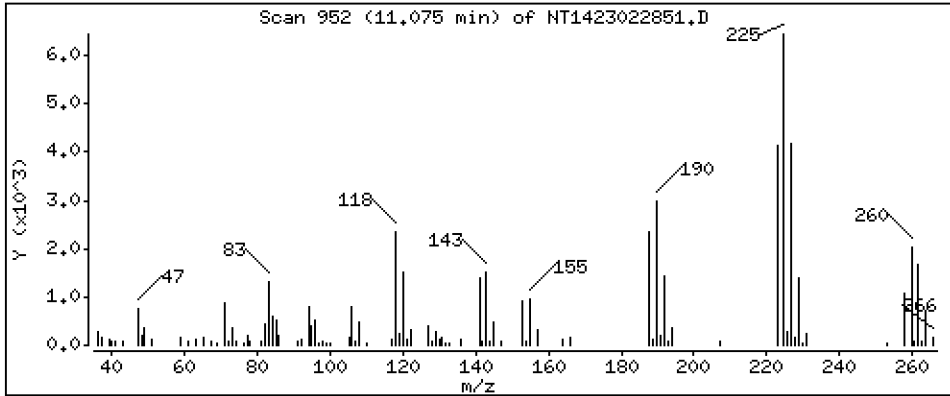
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,4391 ug/mL





Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

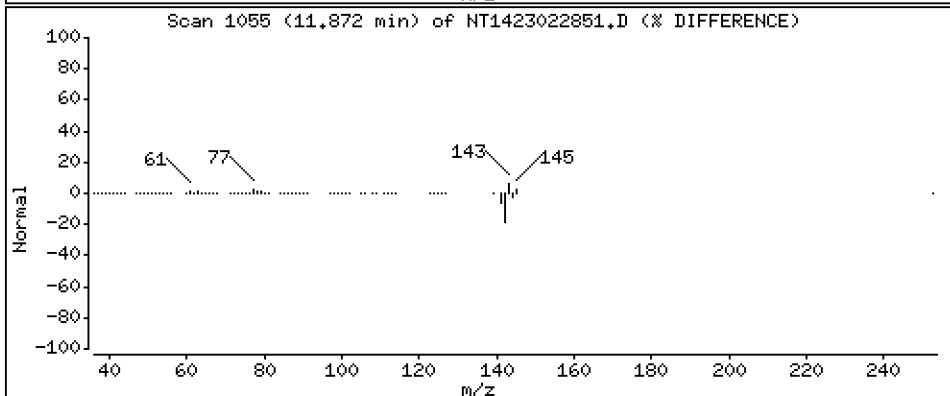
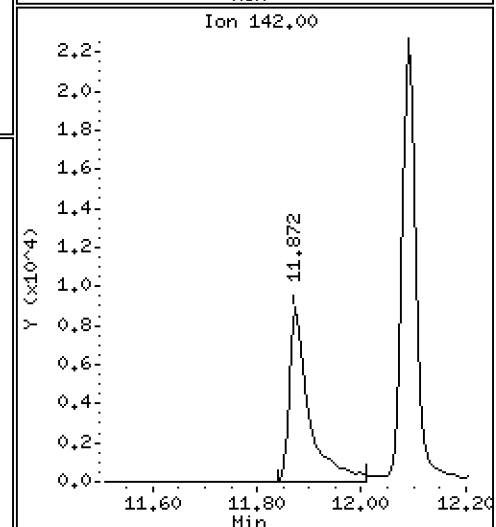
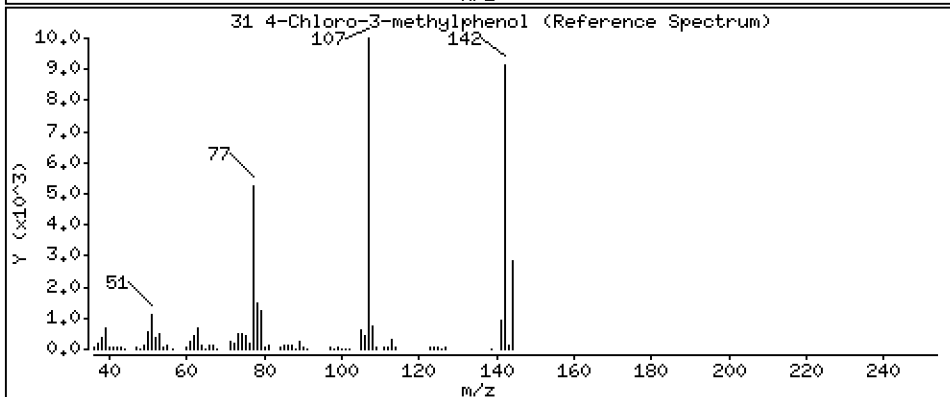
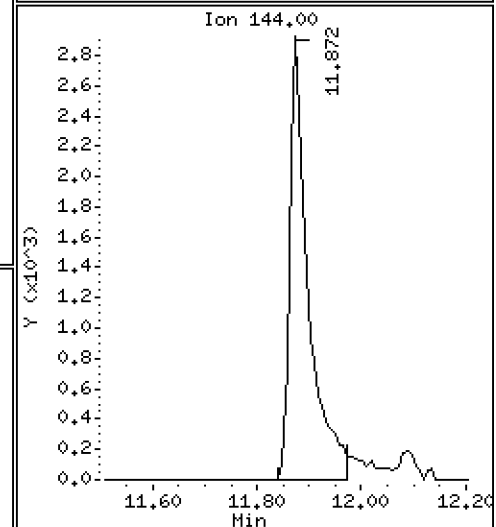
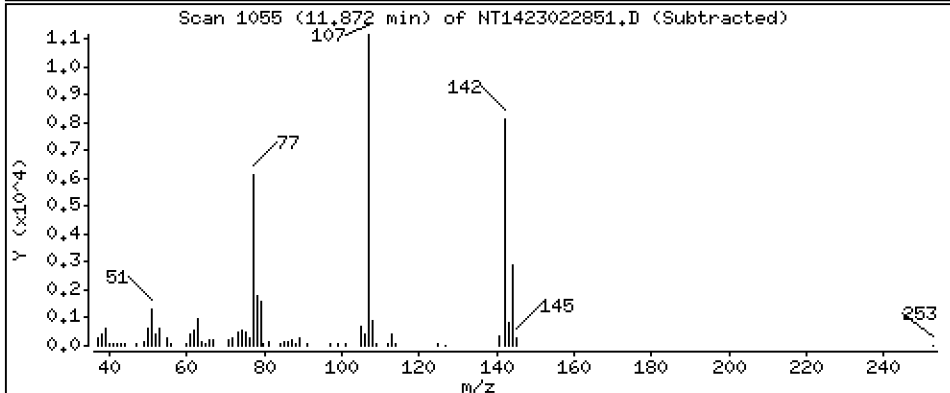
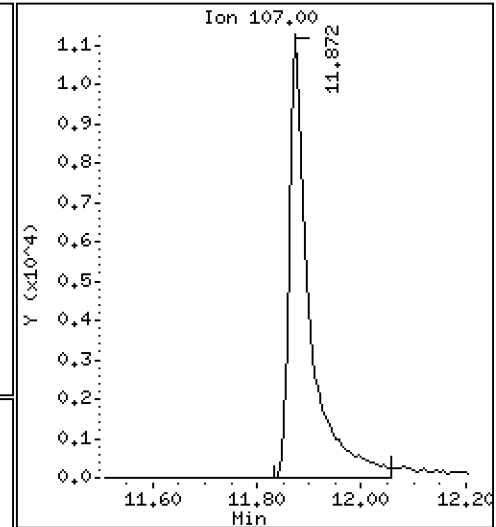
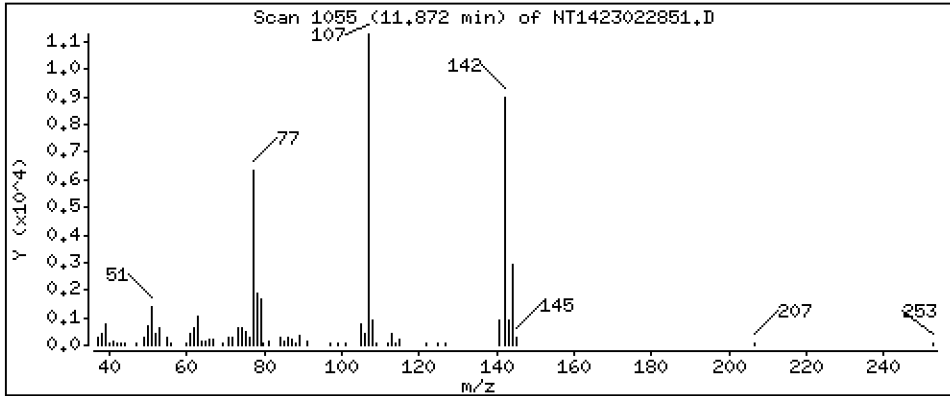
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 0.9903 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

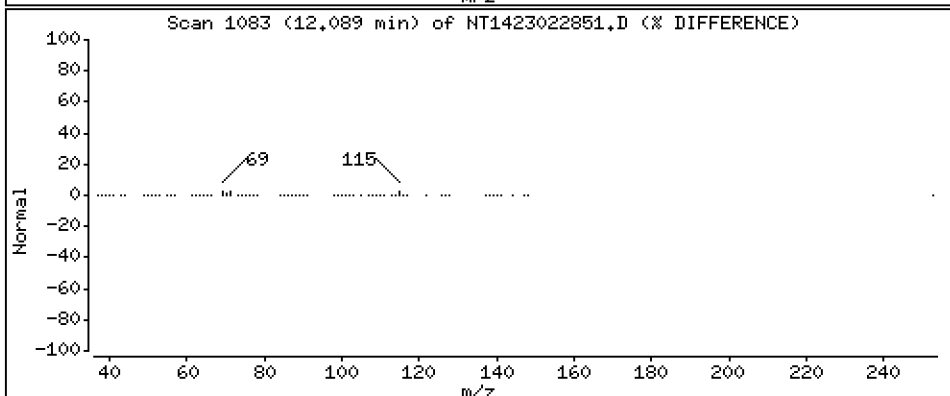
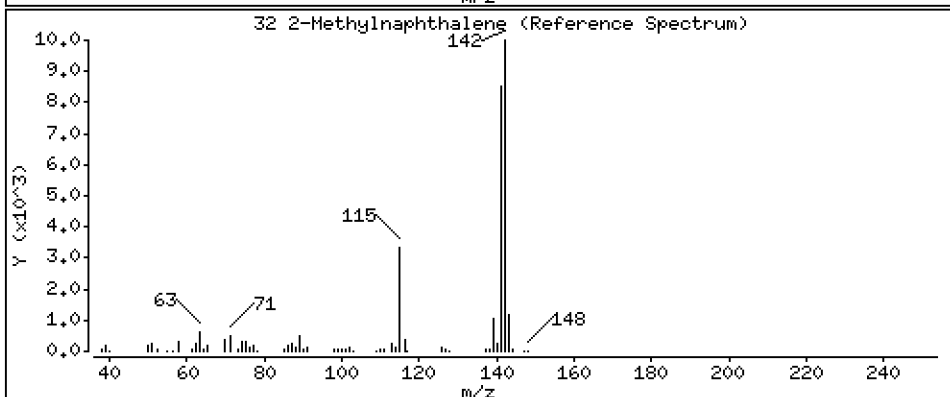
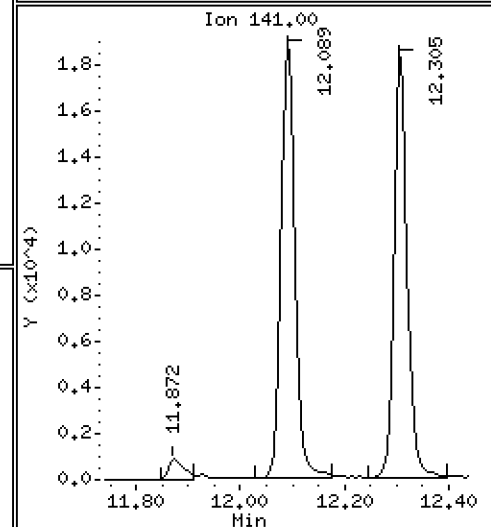
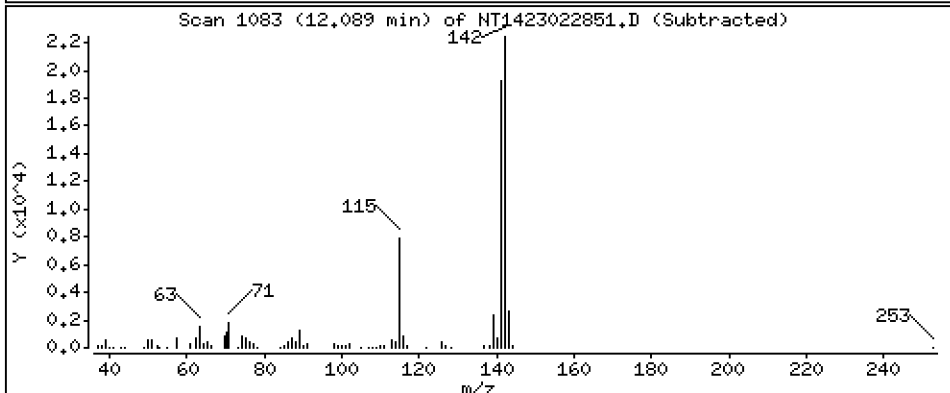
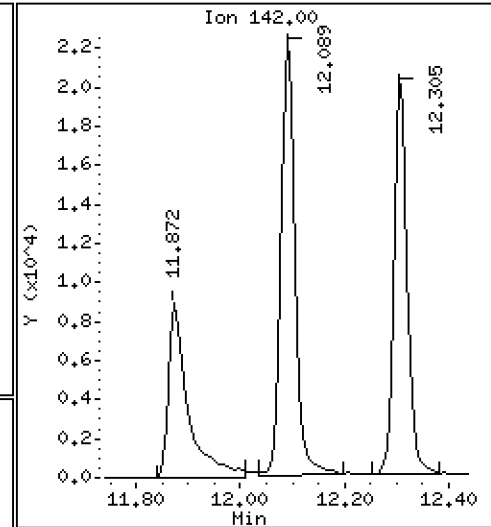
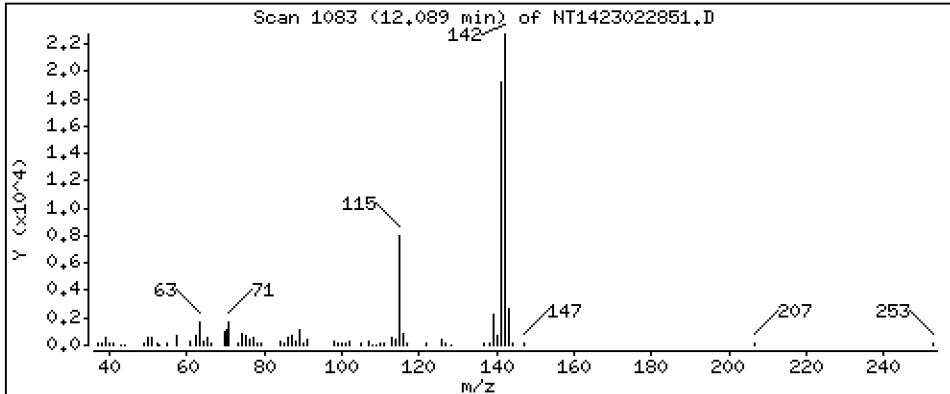
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,4960 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

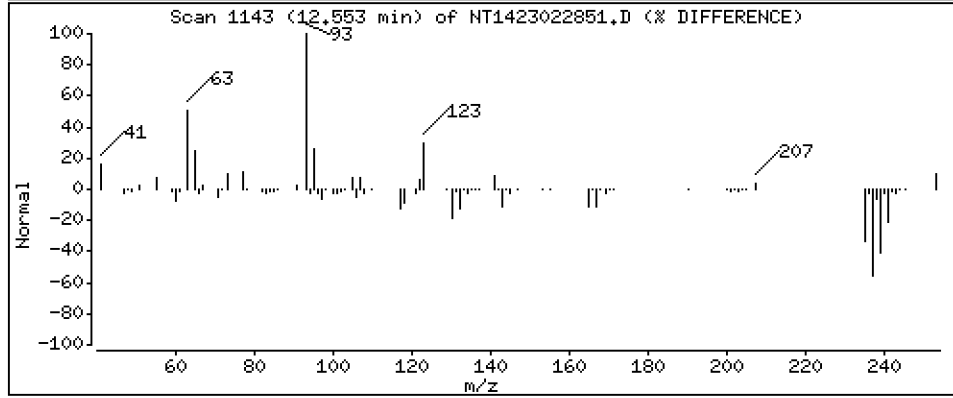
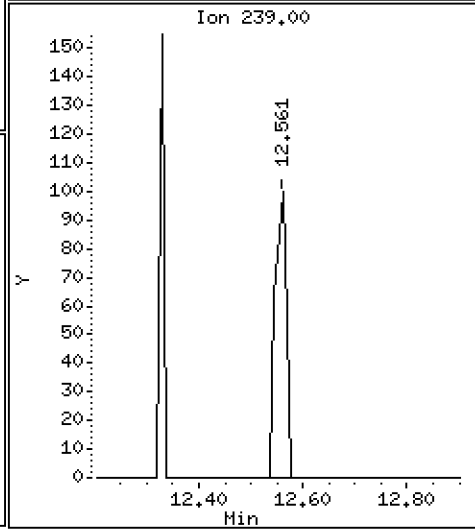
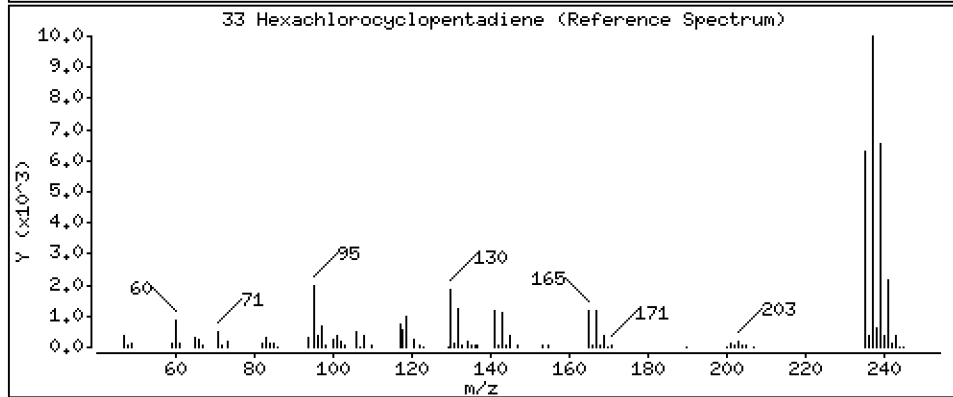
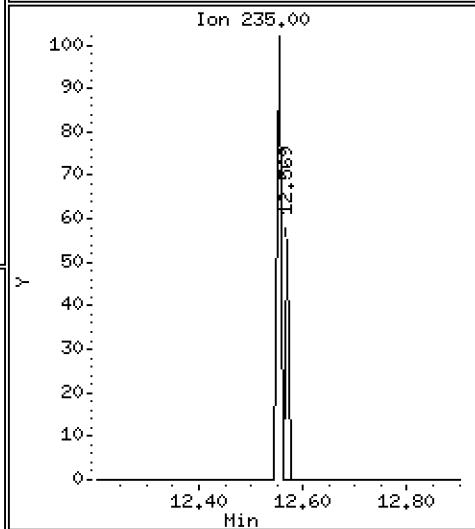
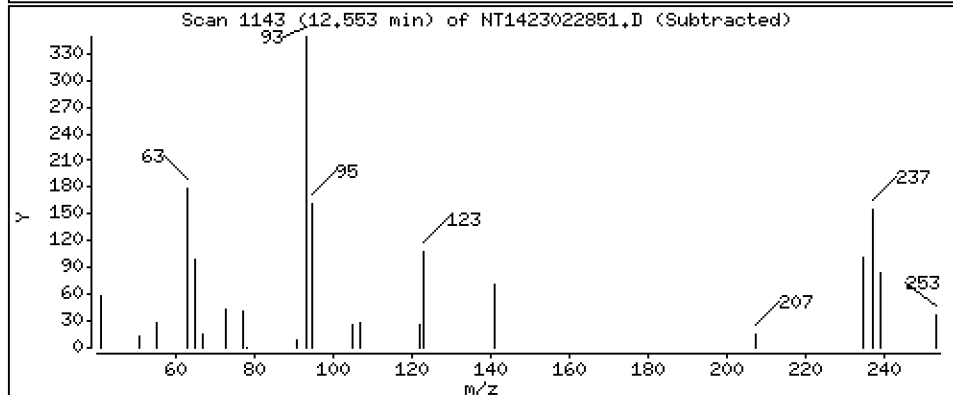
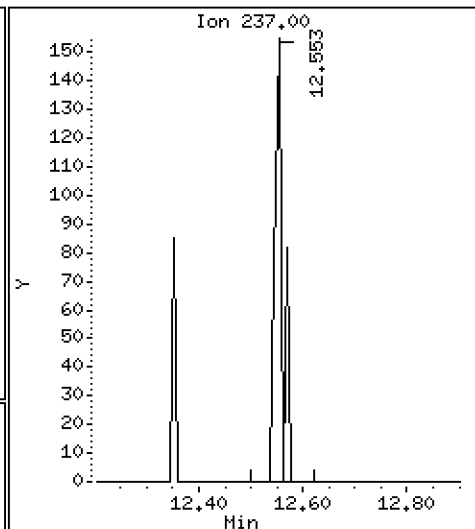
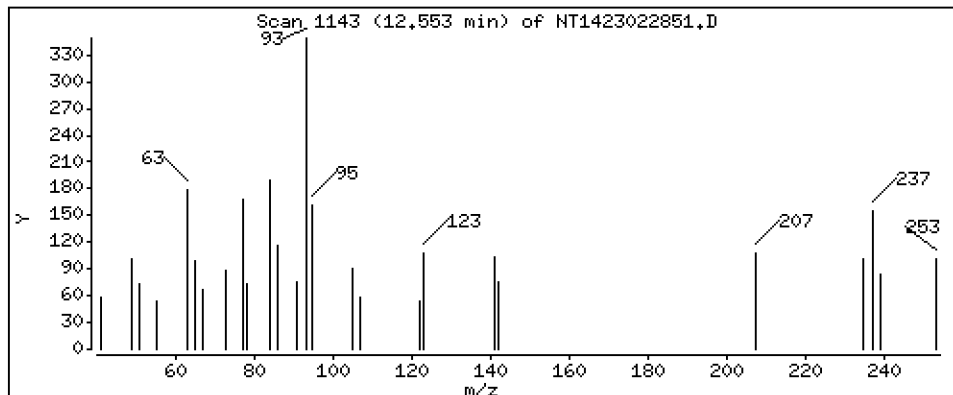
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,006113 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

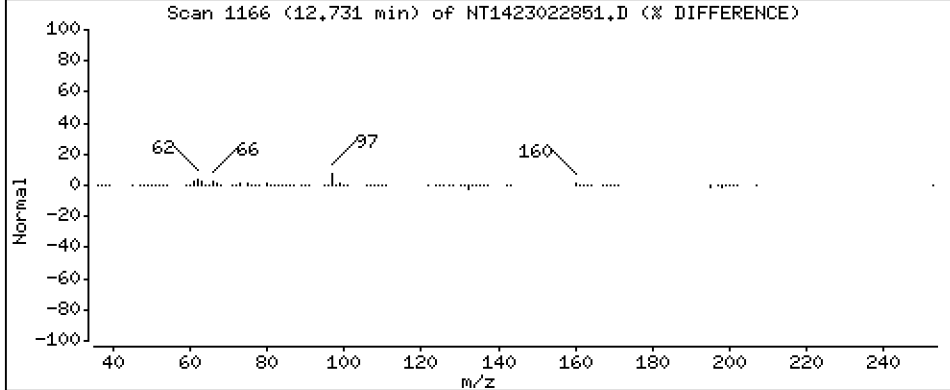
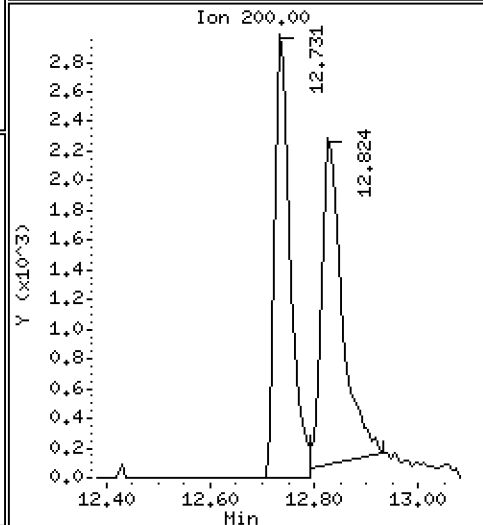
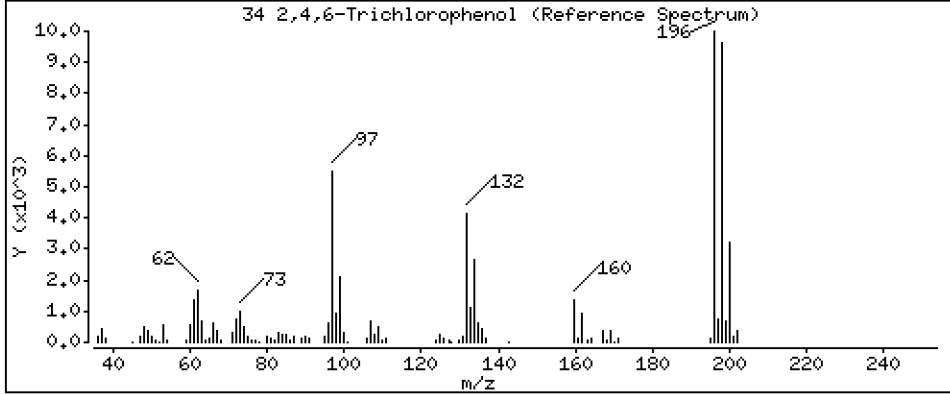
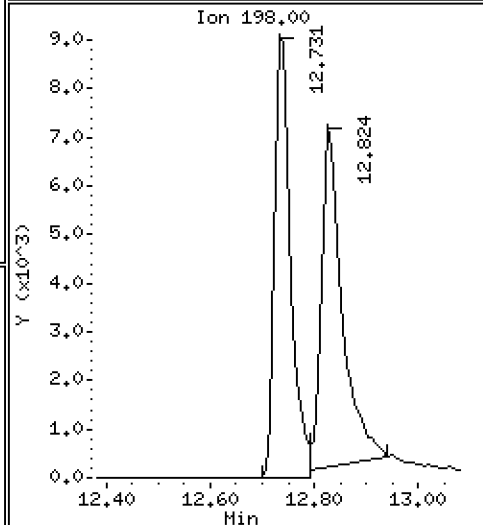
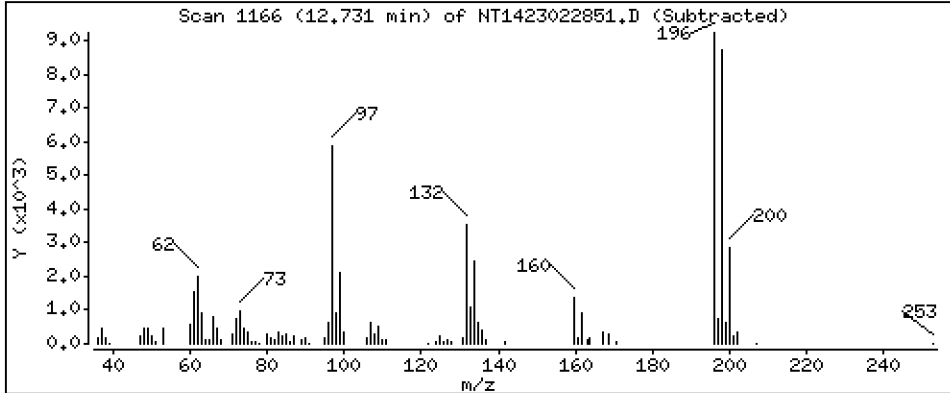
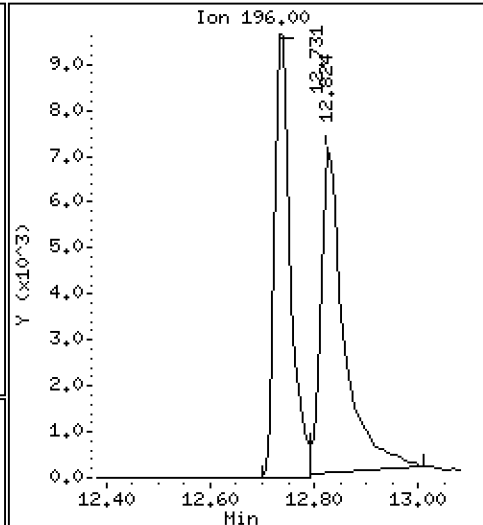
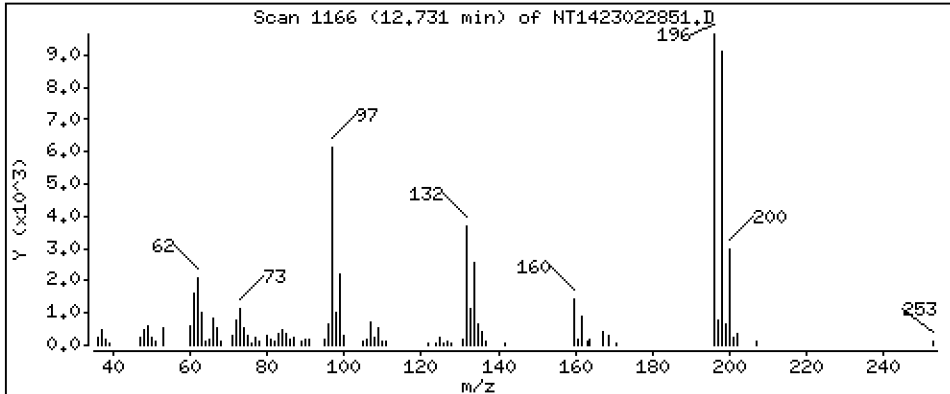
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,9205 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

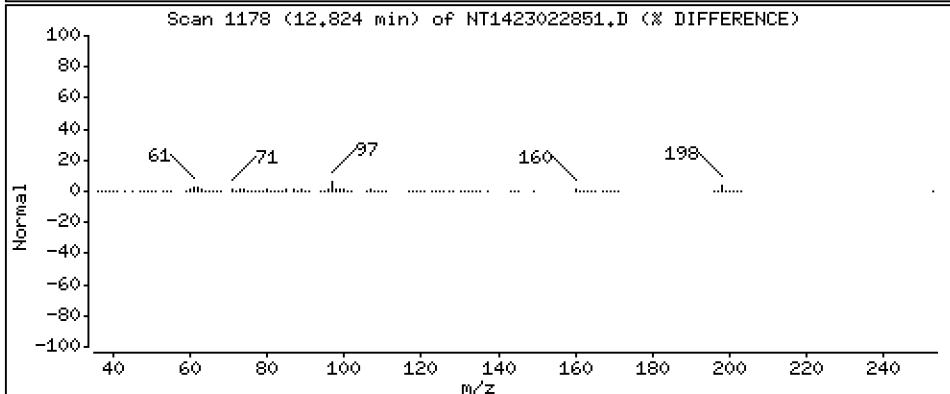
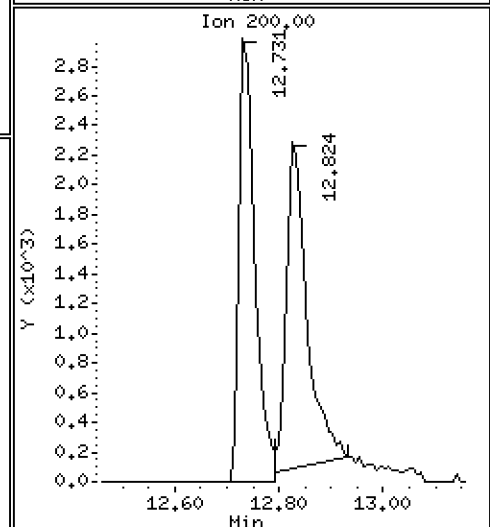
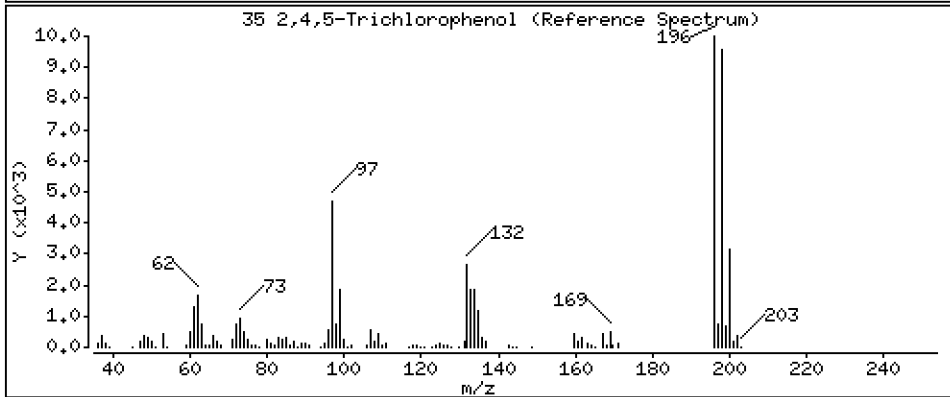
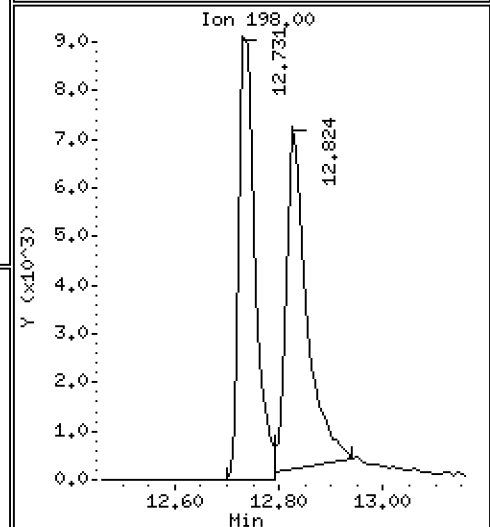
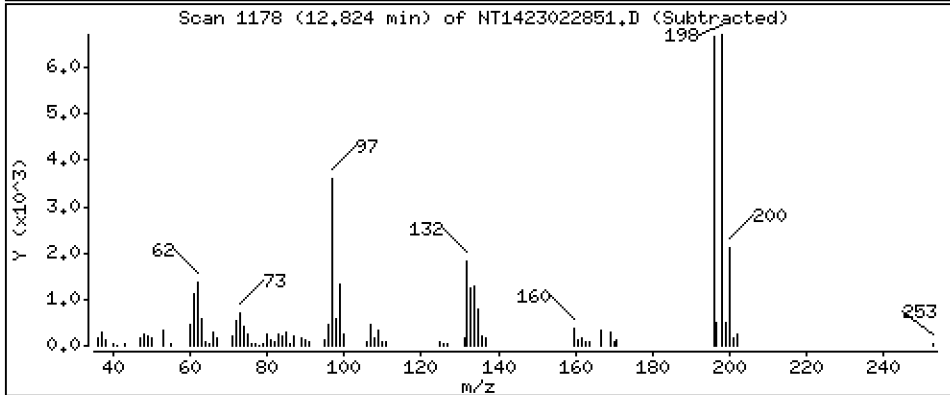
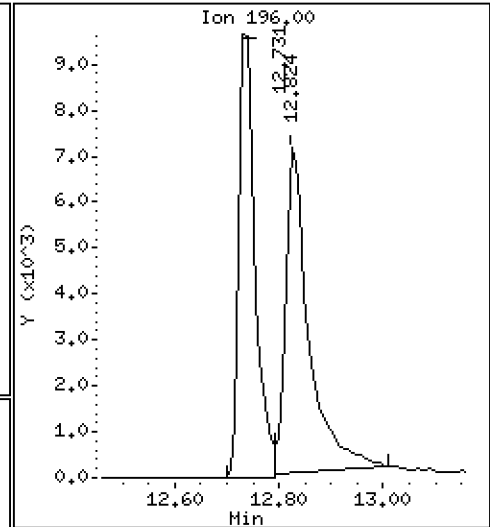
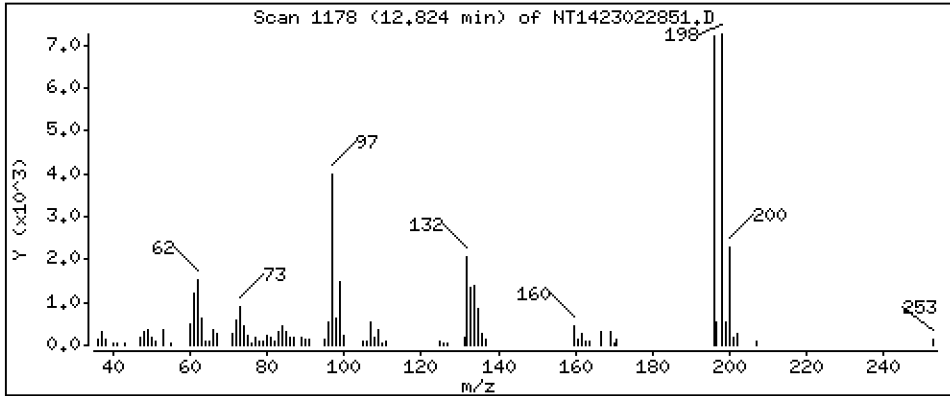
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,9325 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

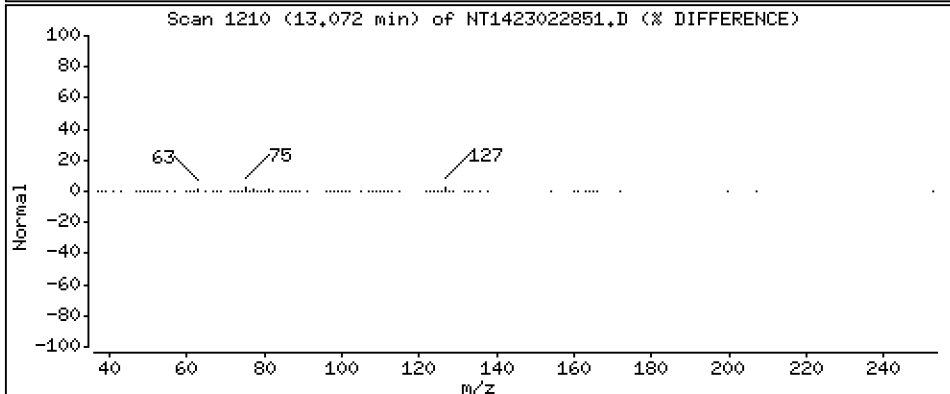
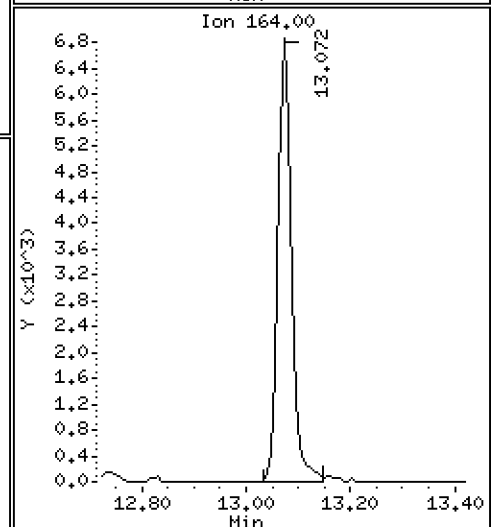
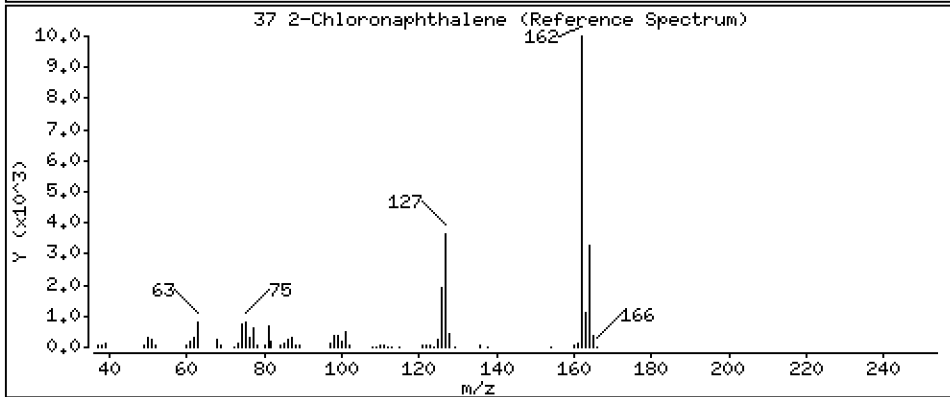
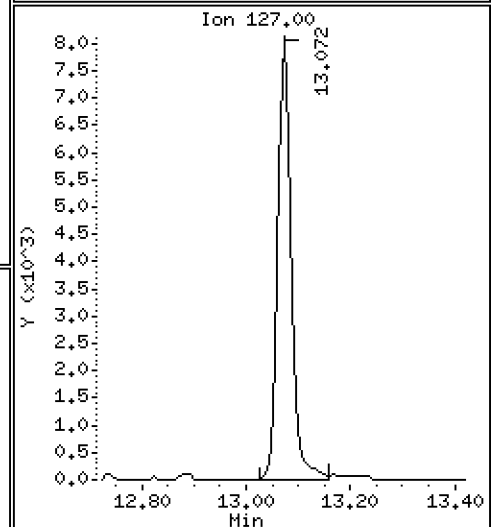
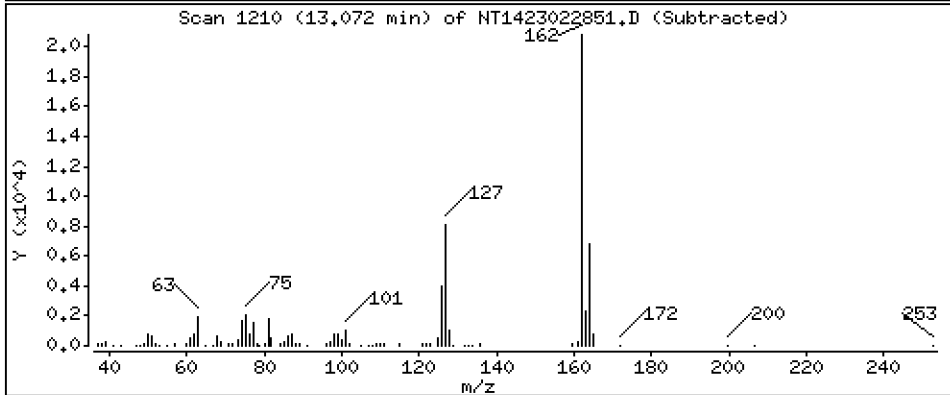
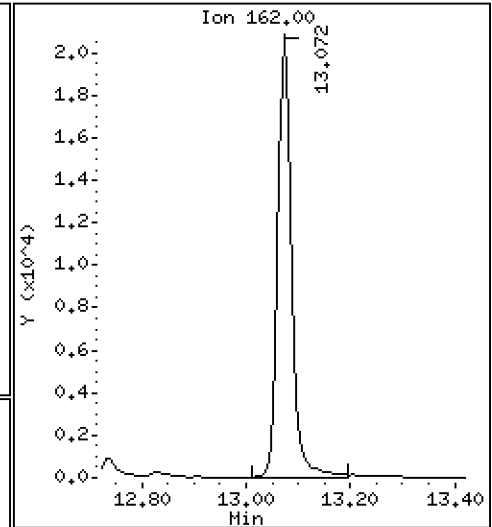
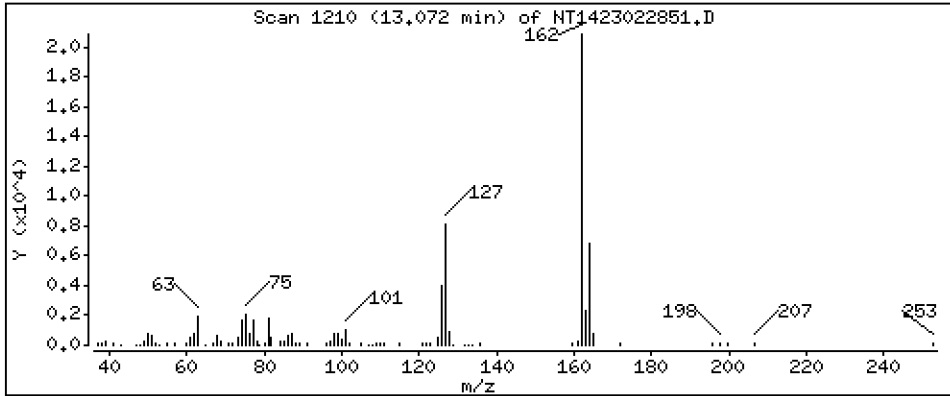
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,5208 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

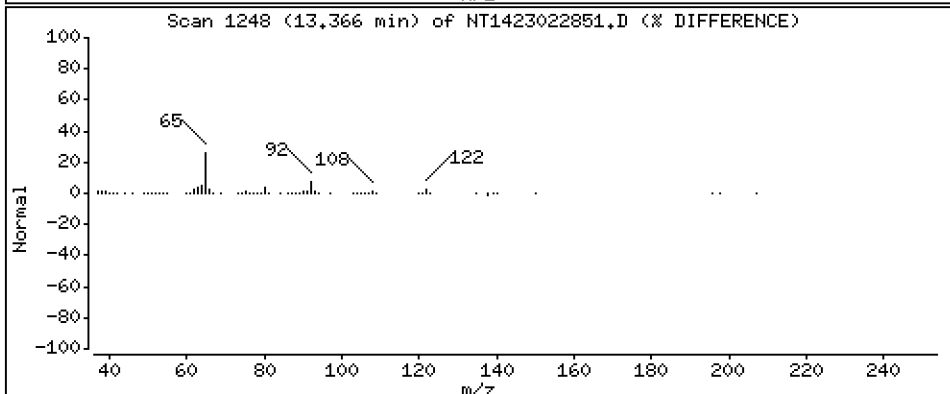
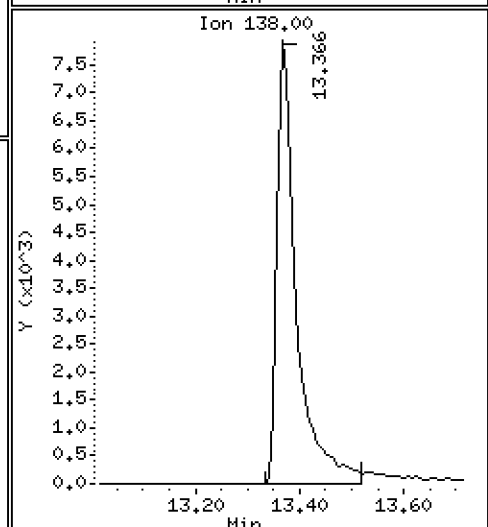
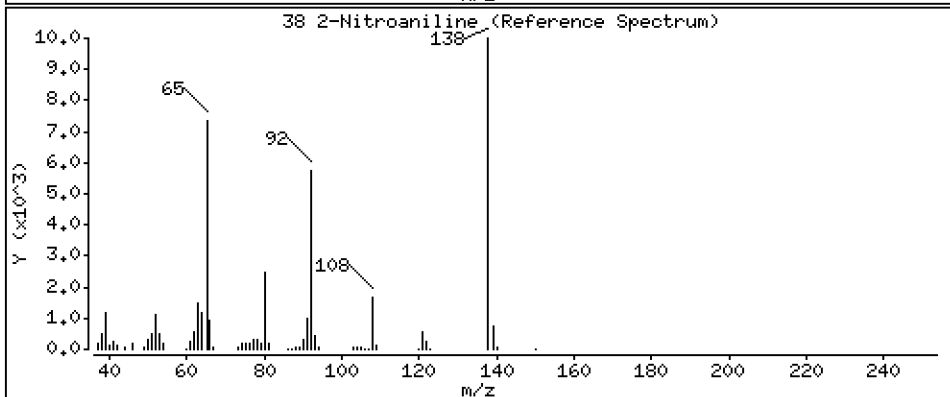
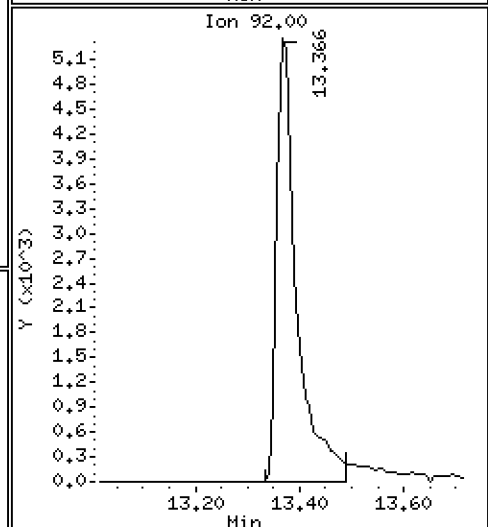
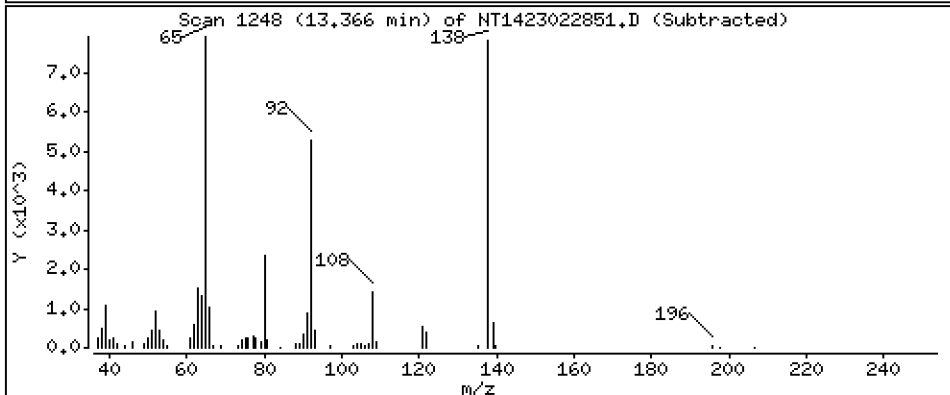
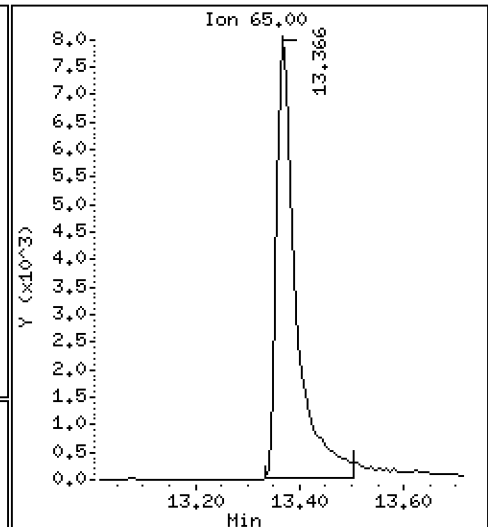
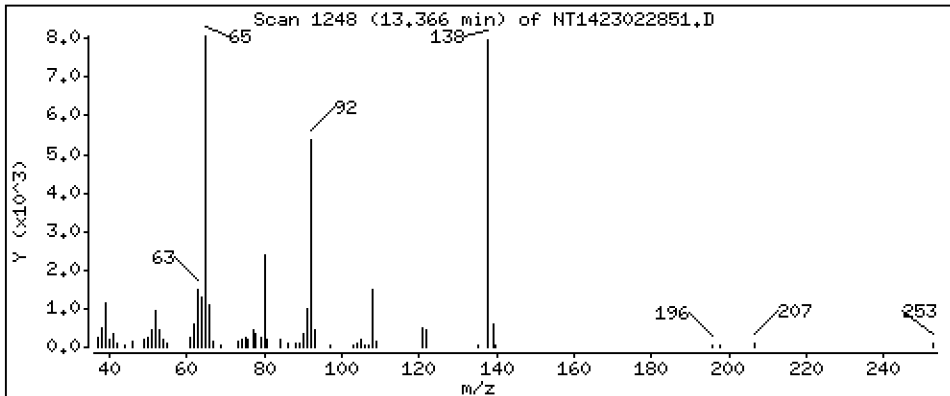
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 1,095 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

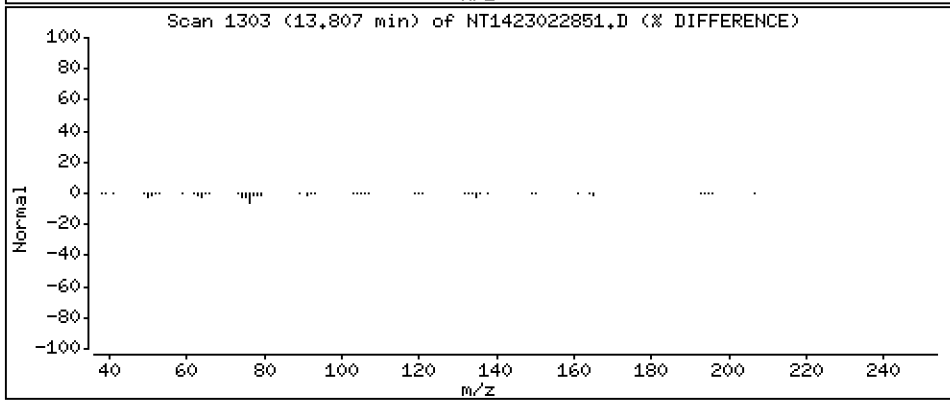
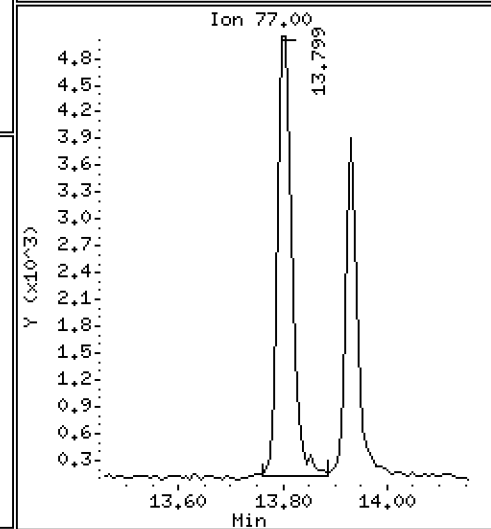
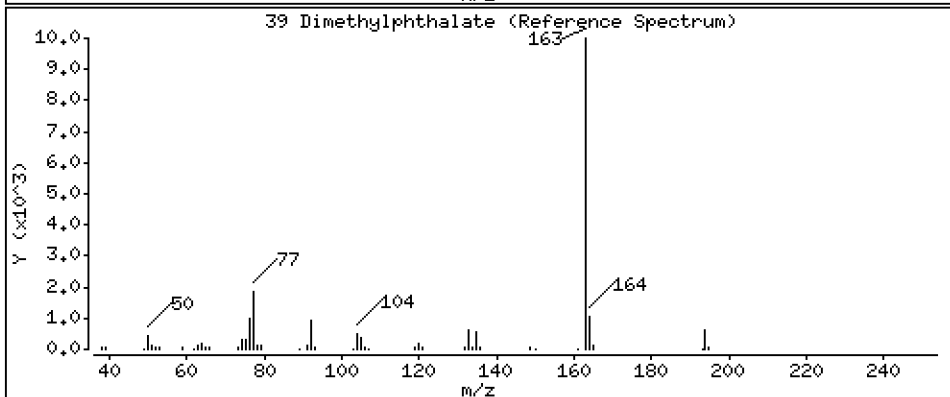
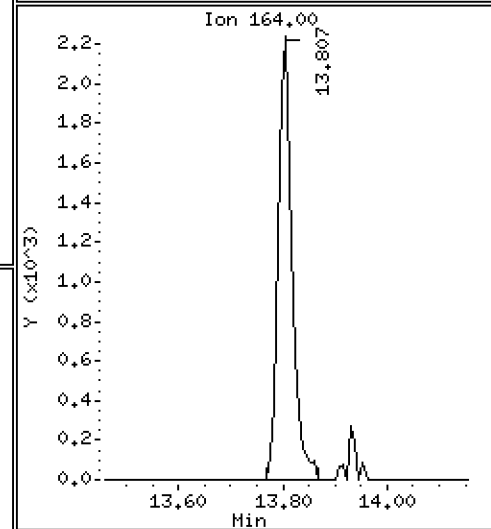
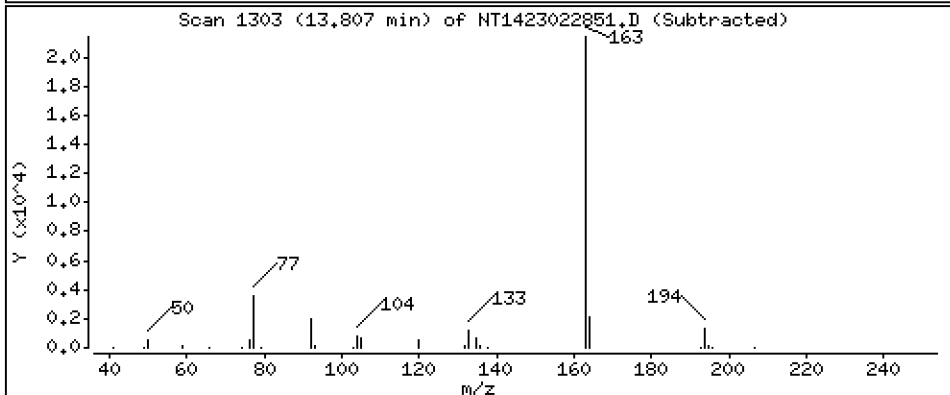
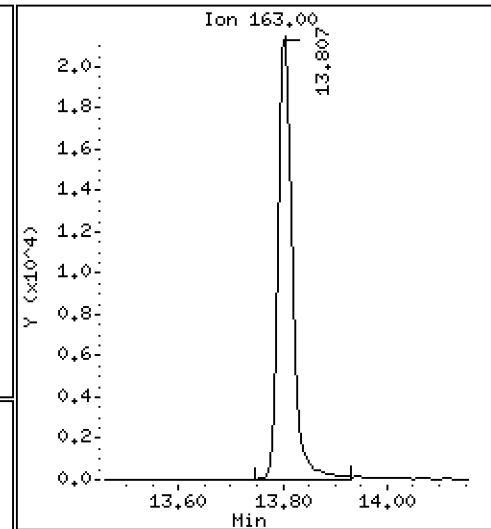
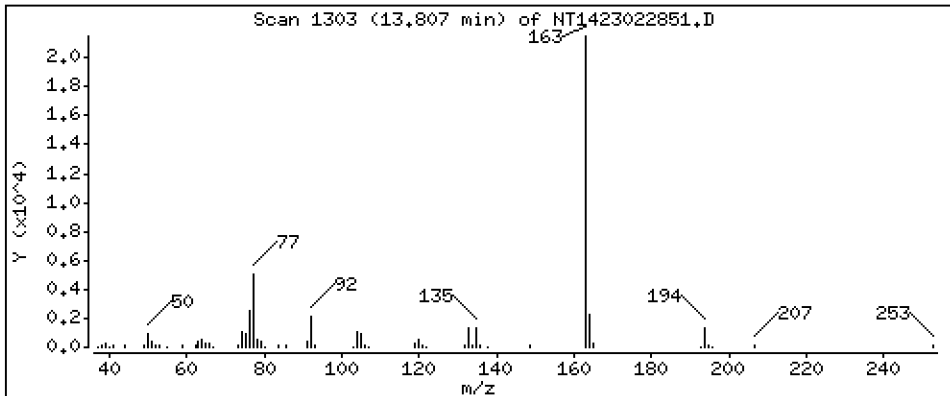
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,5564 ug/mL





Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

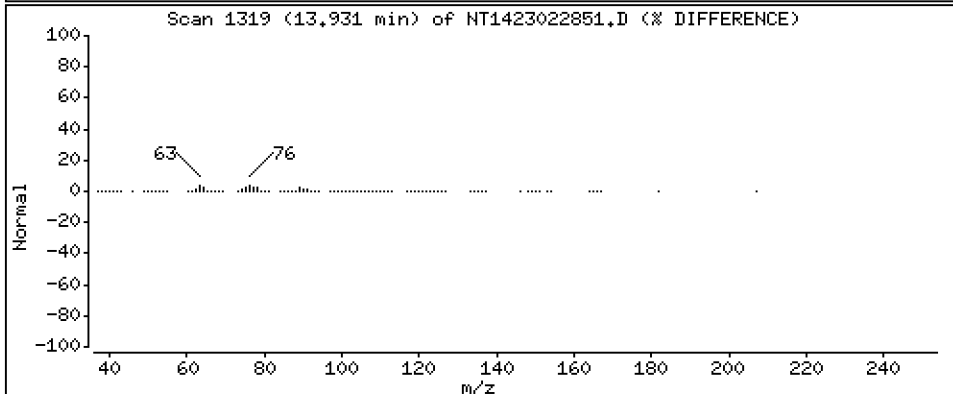
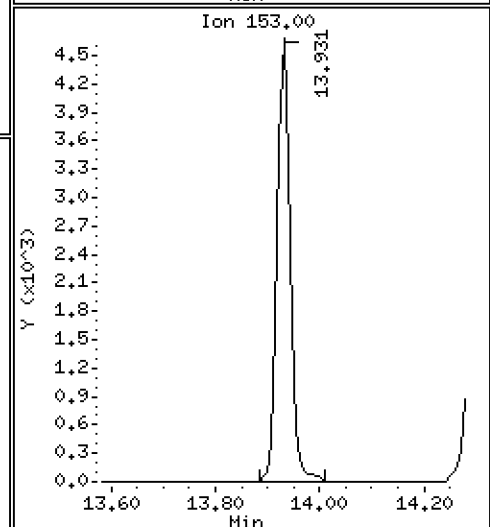
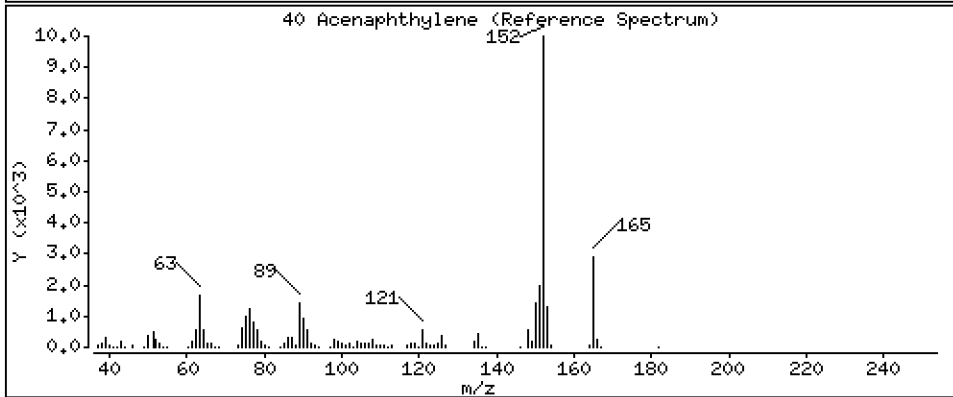
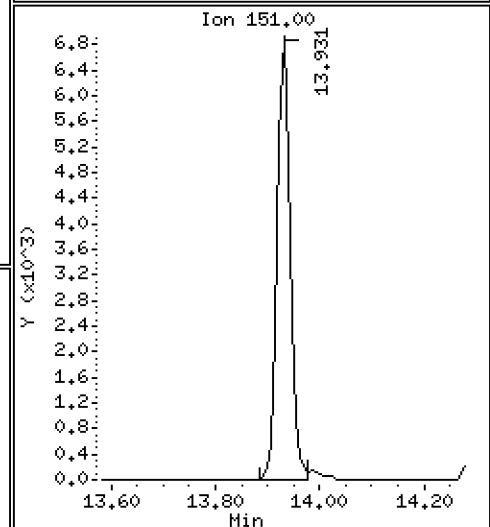
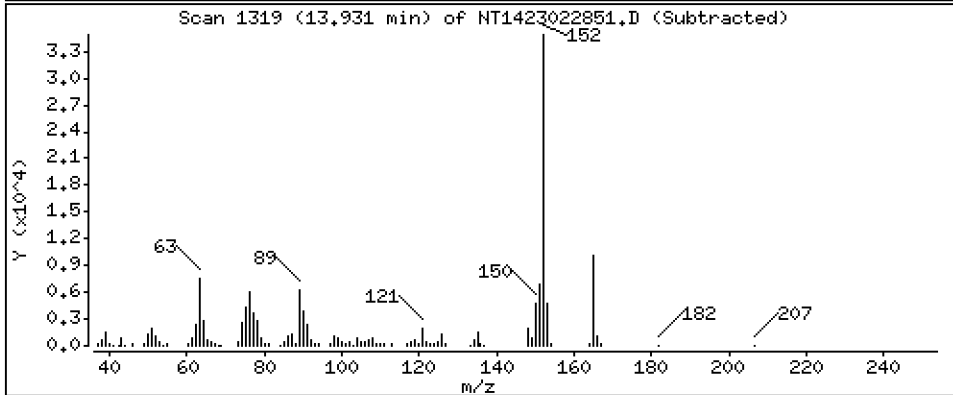
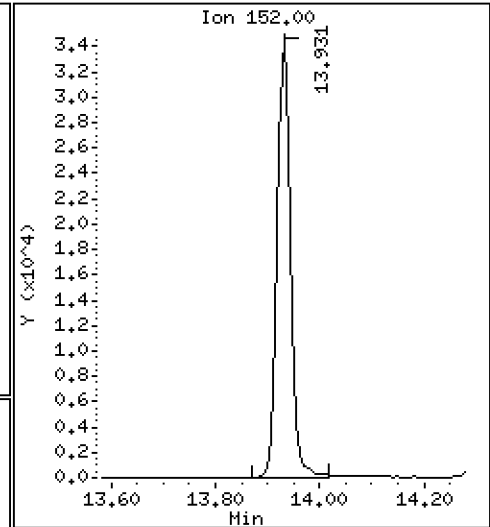
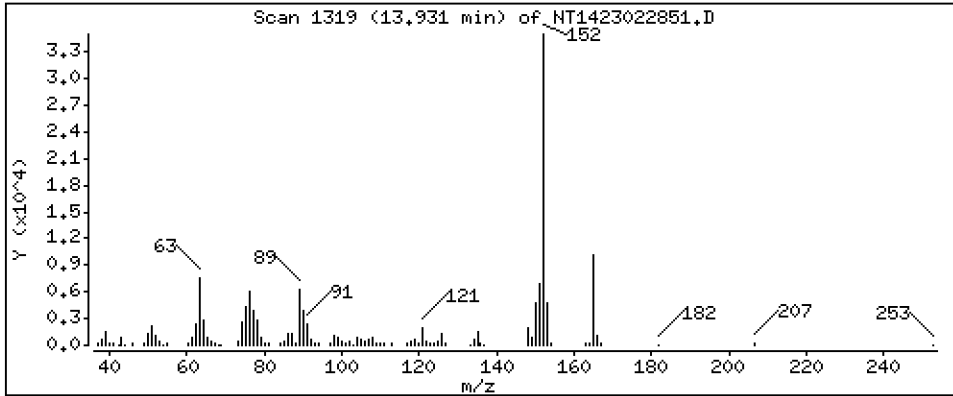
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,5661 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

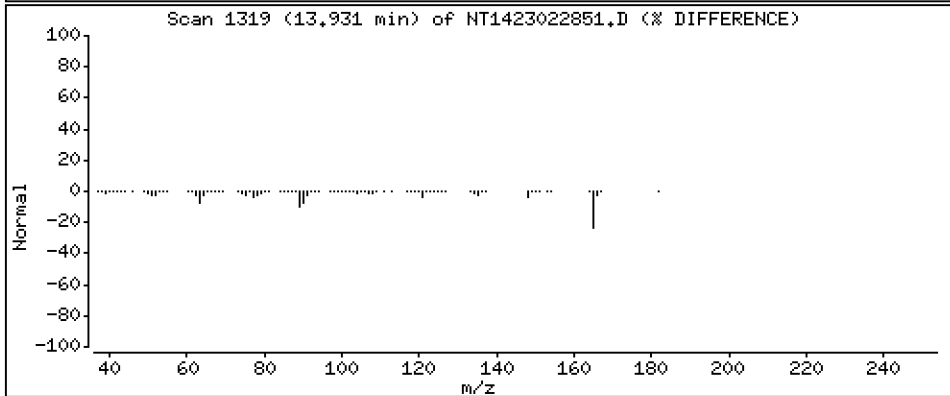
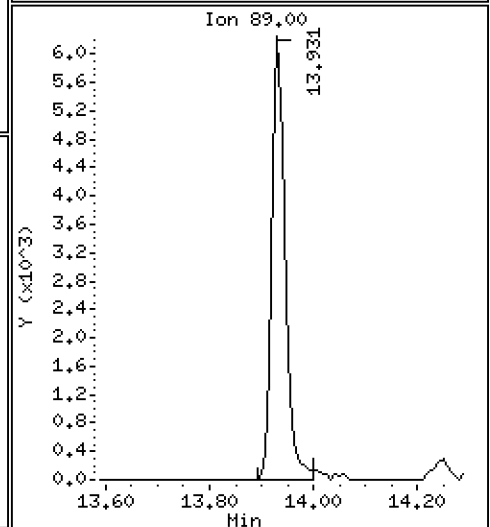
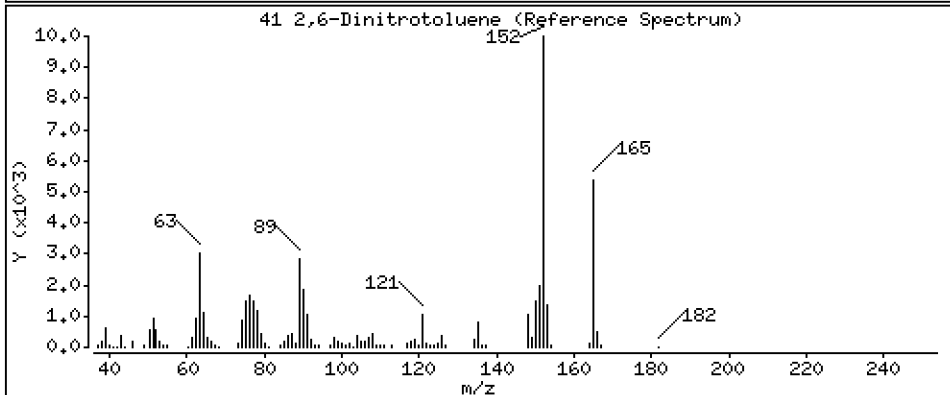
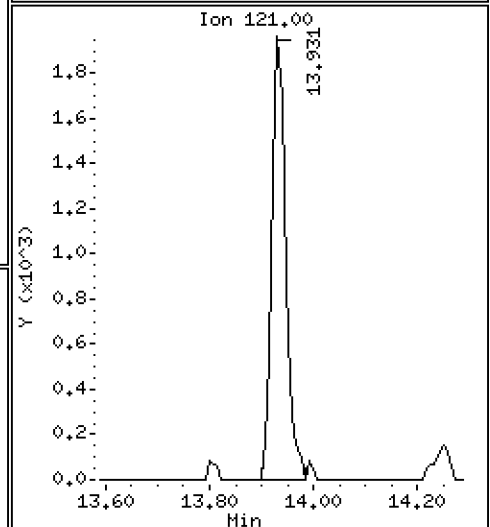
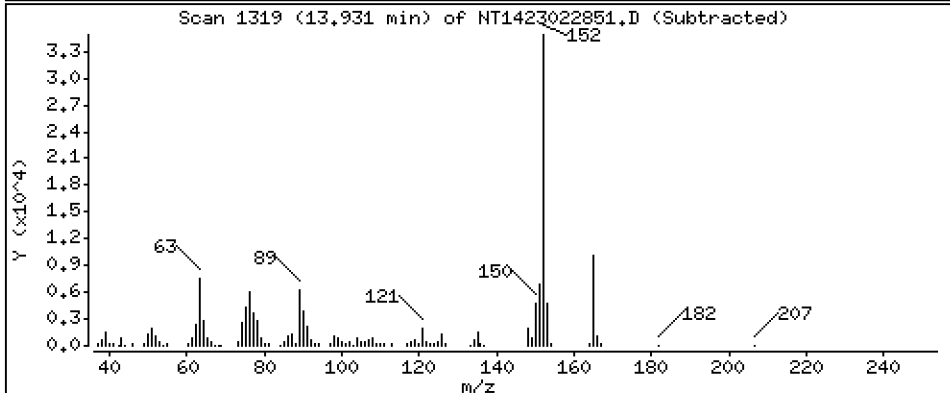
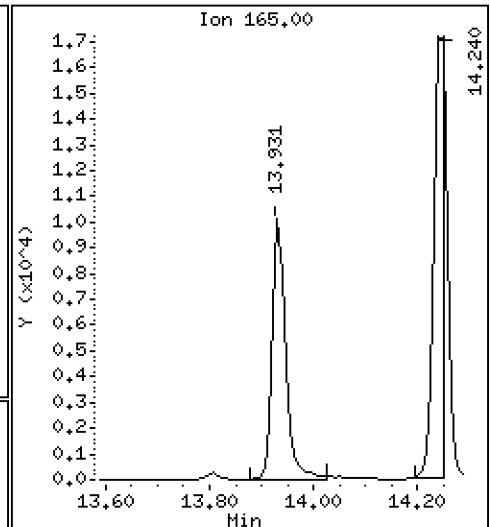
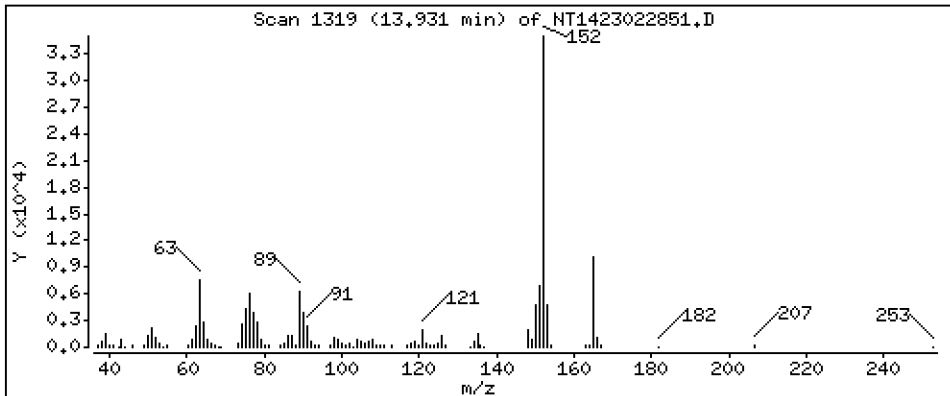
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 1.034 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

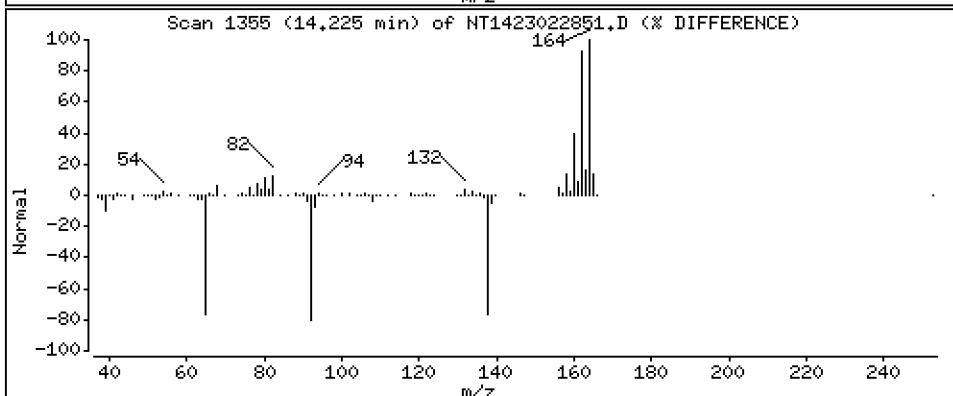
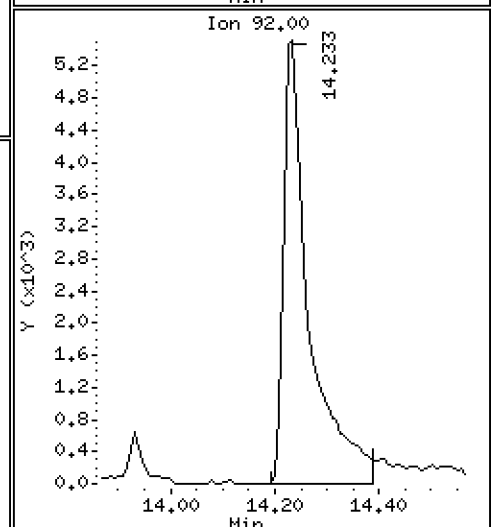
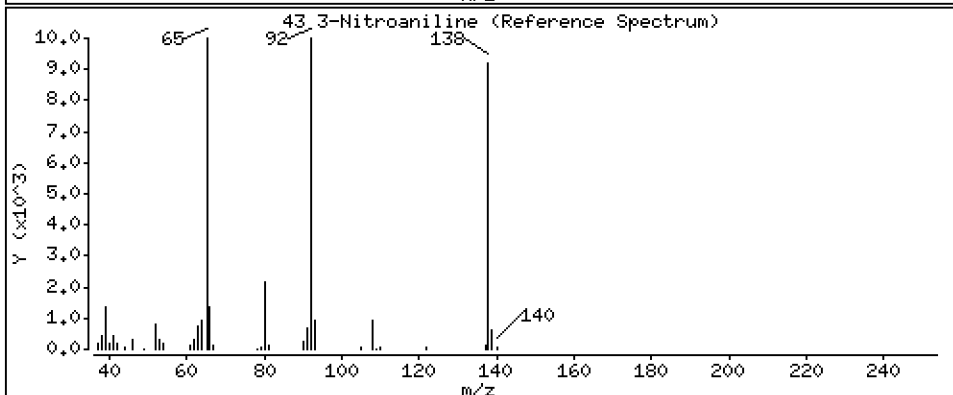
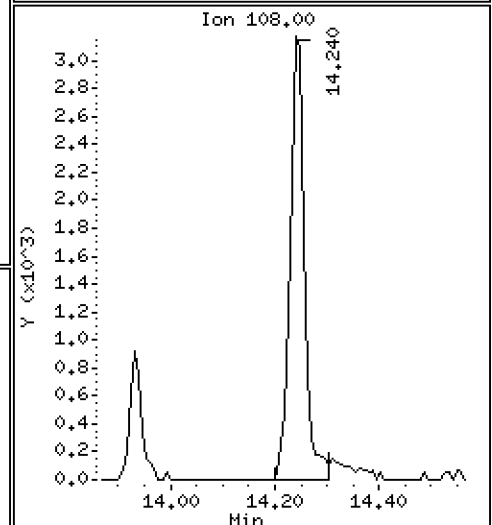
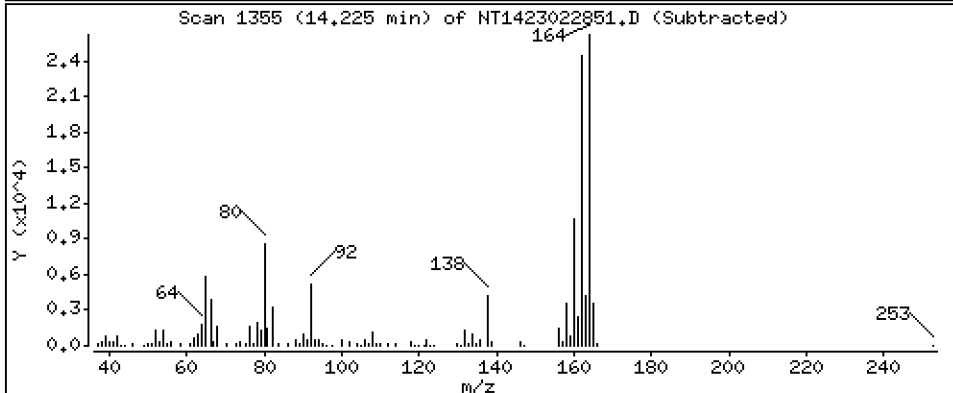
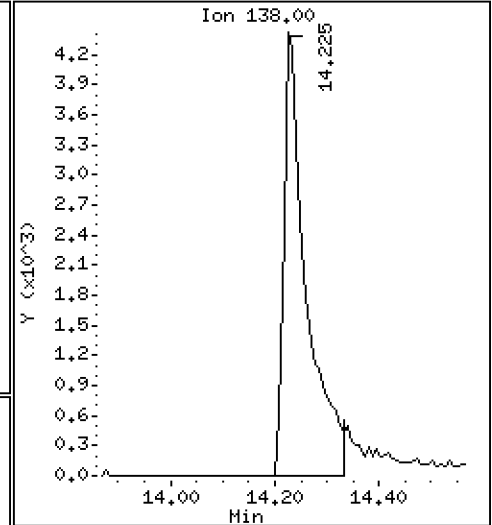
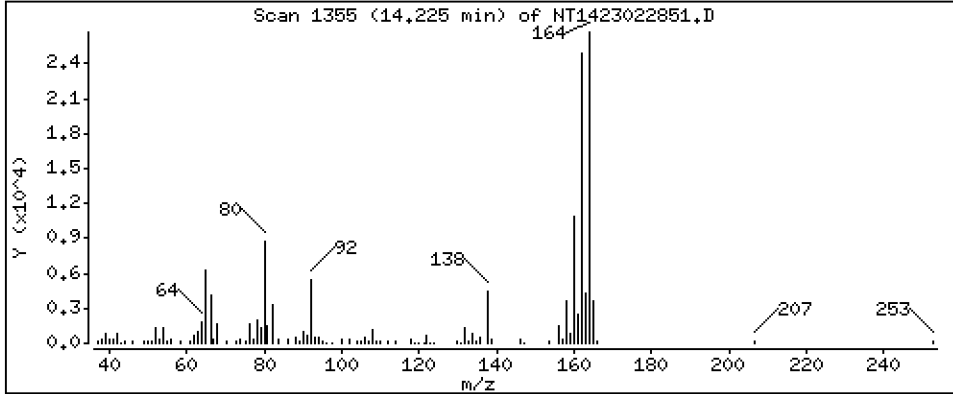
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,7771 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

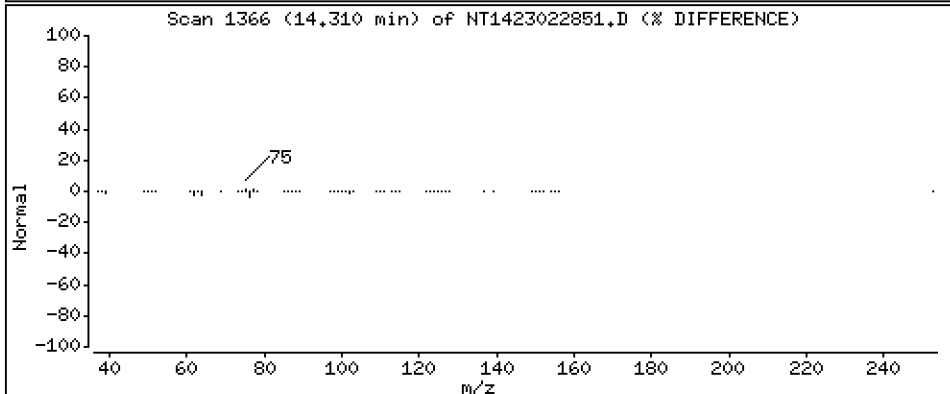
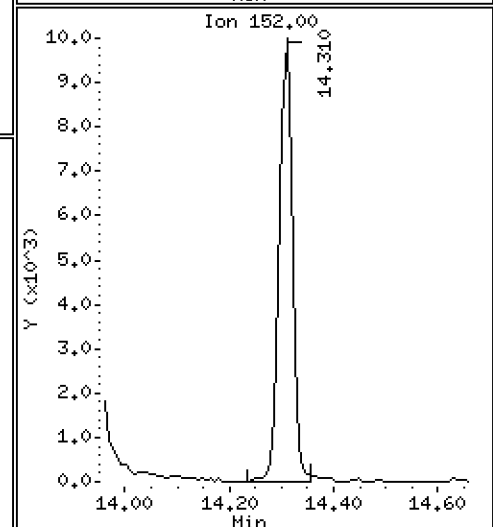
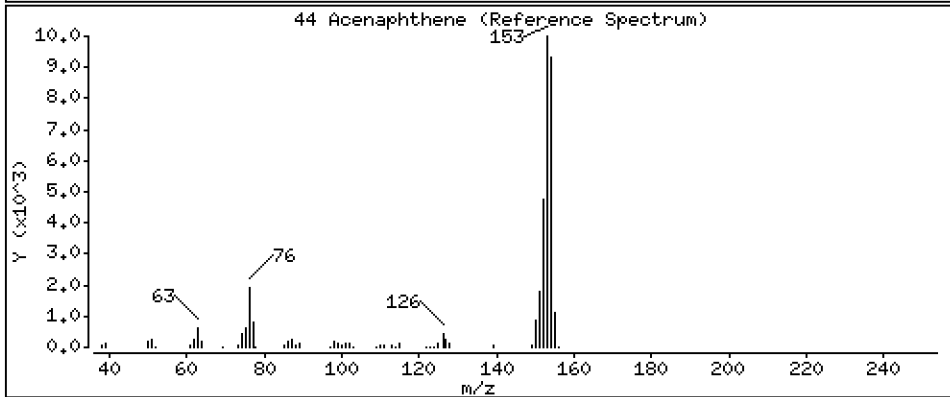
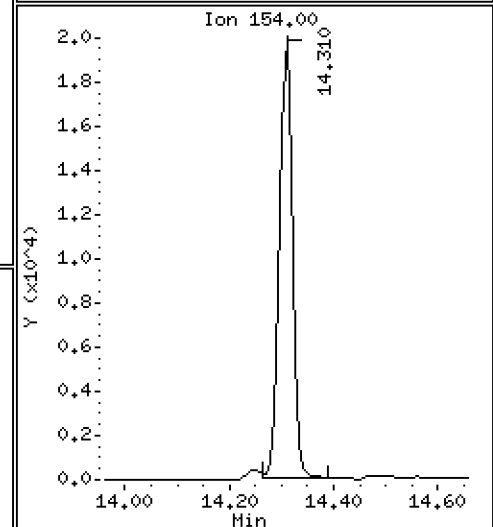
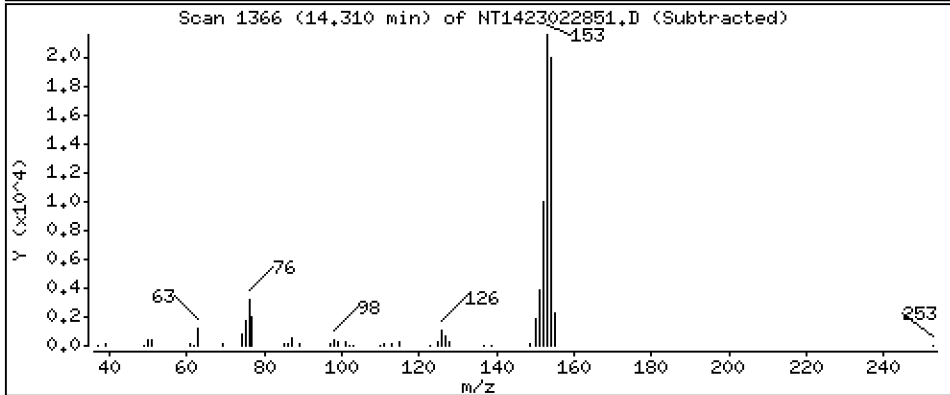
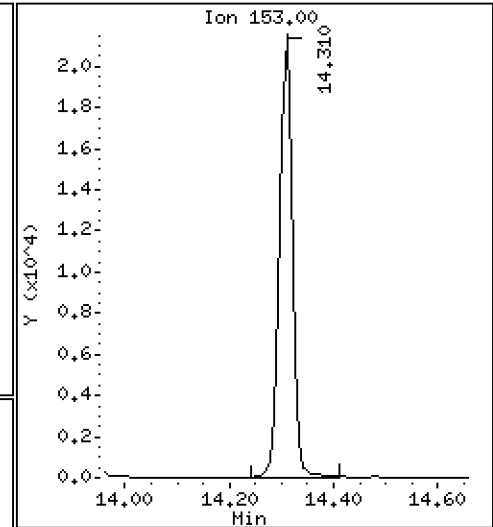
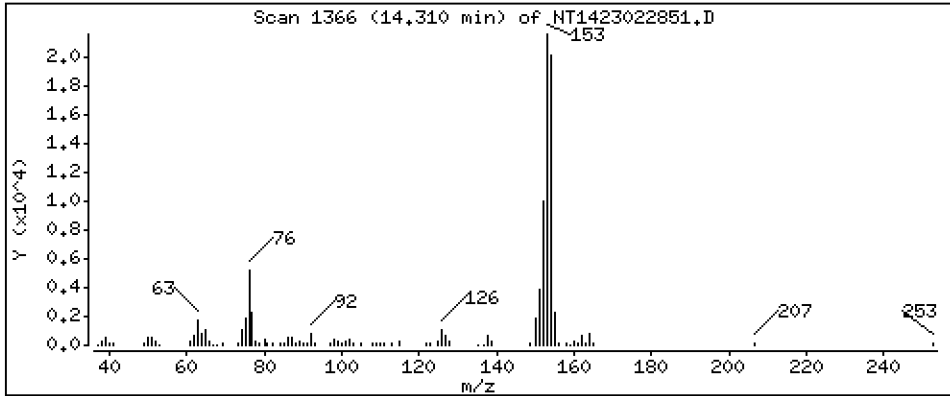
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,5300 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

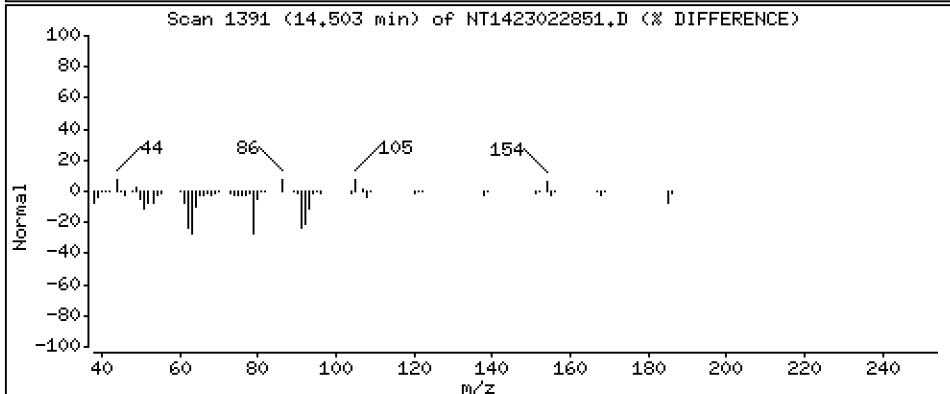
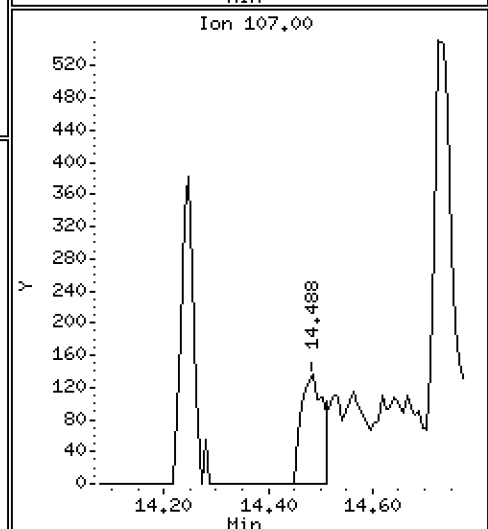
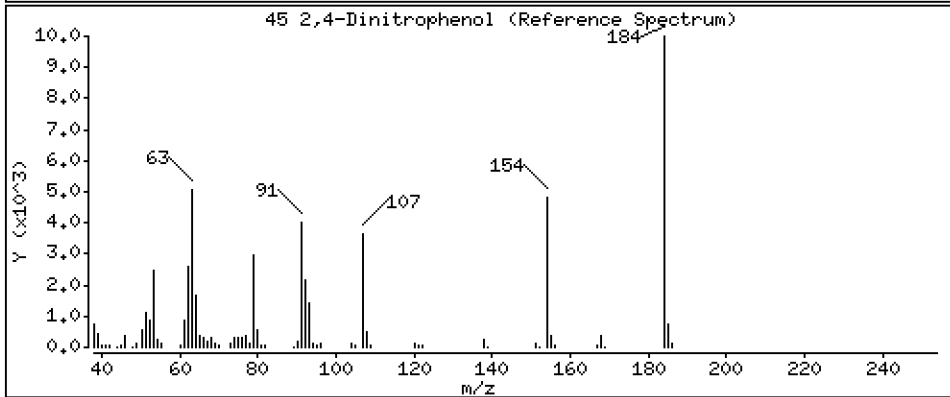
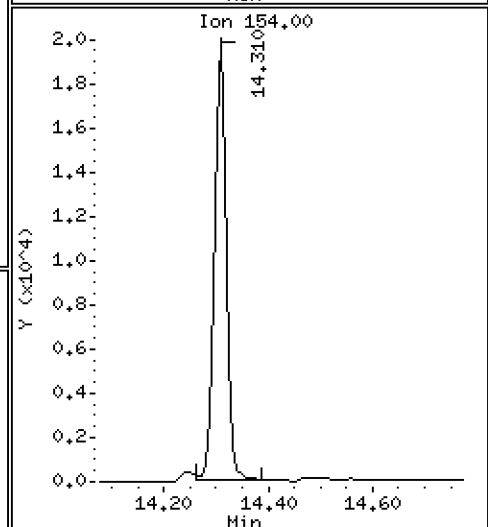
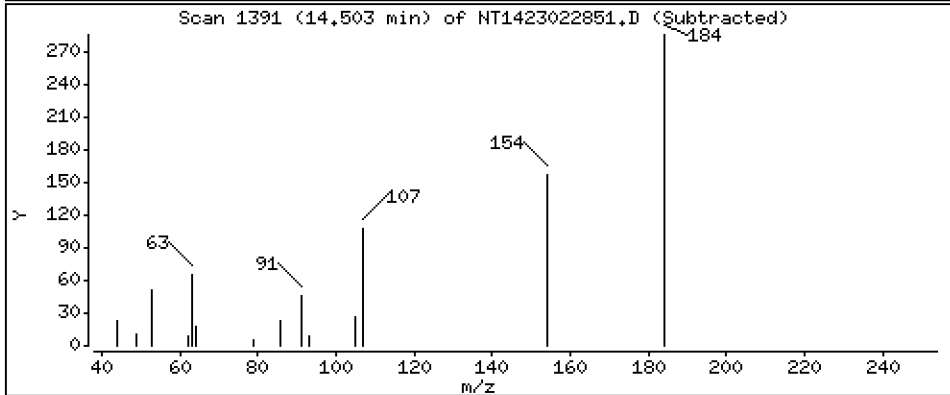
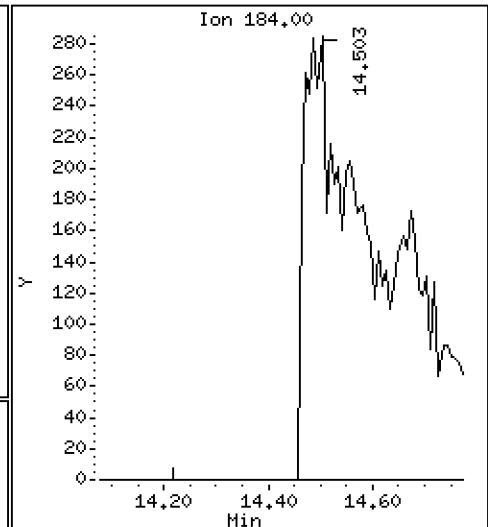
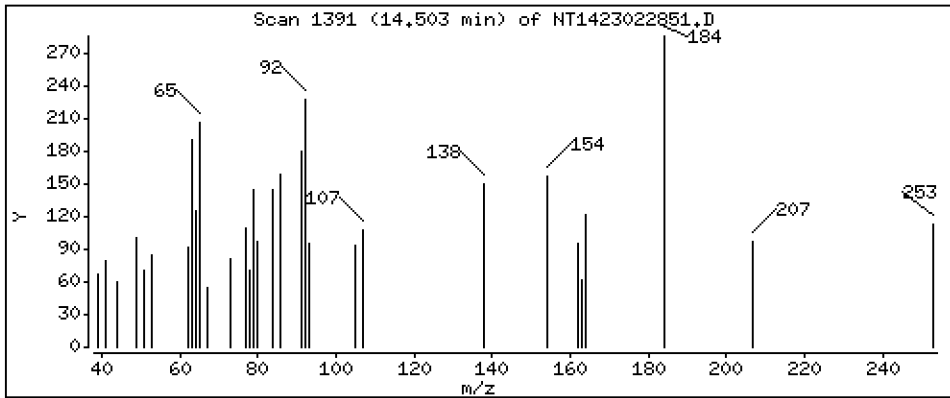
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,3632 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

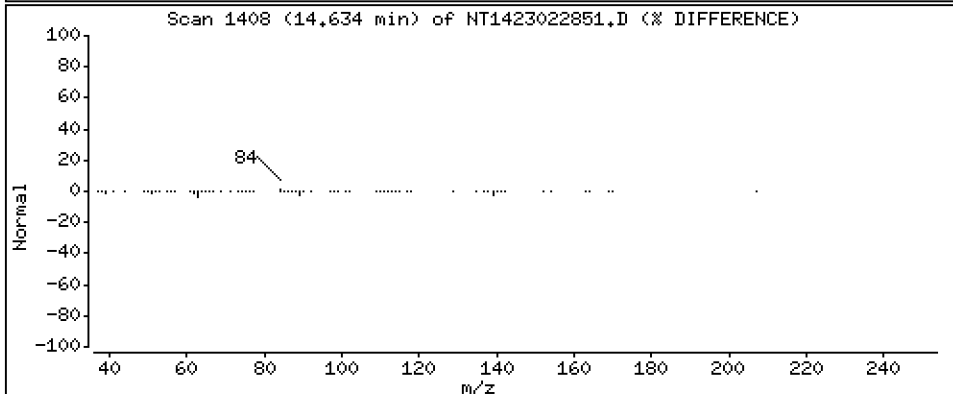
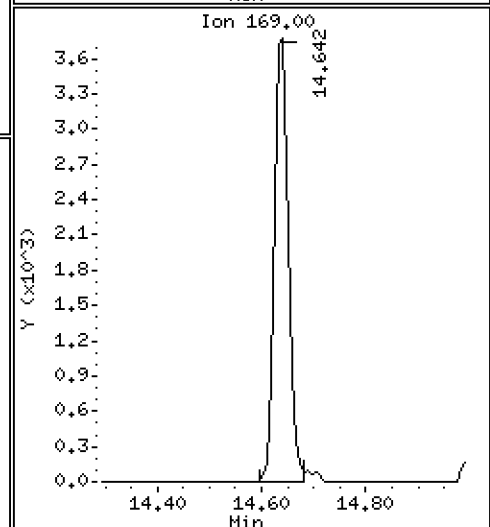
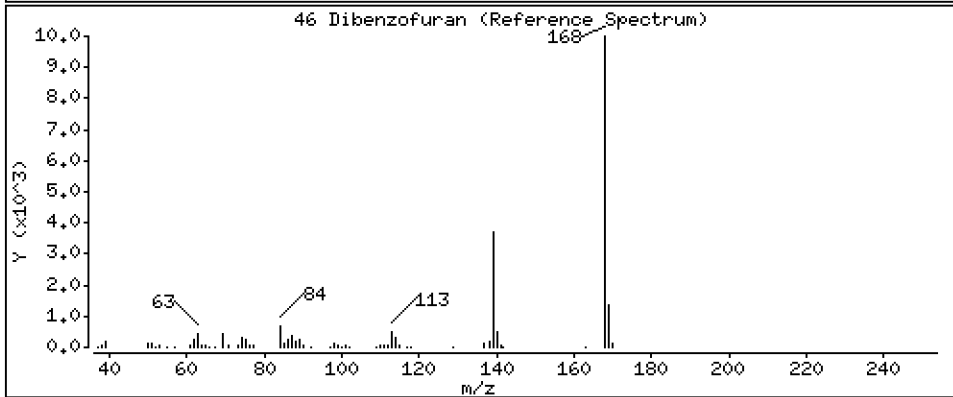
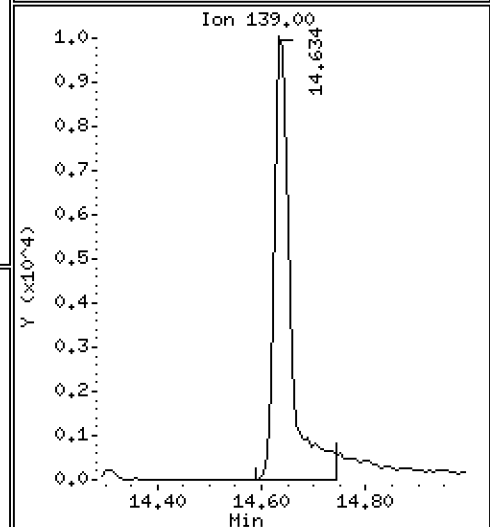
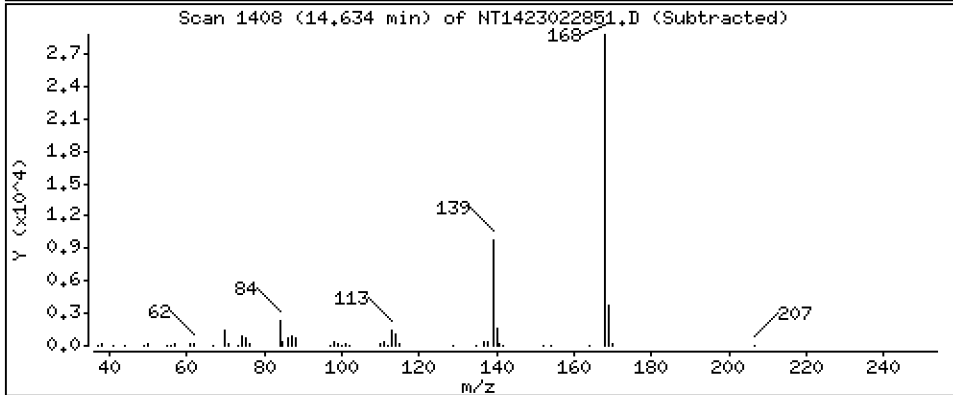
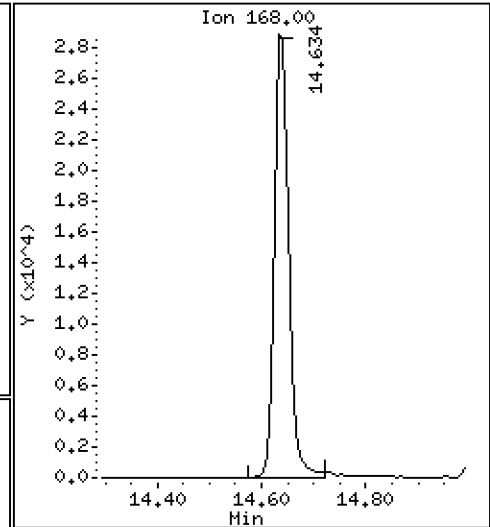
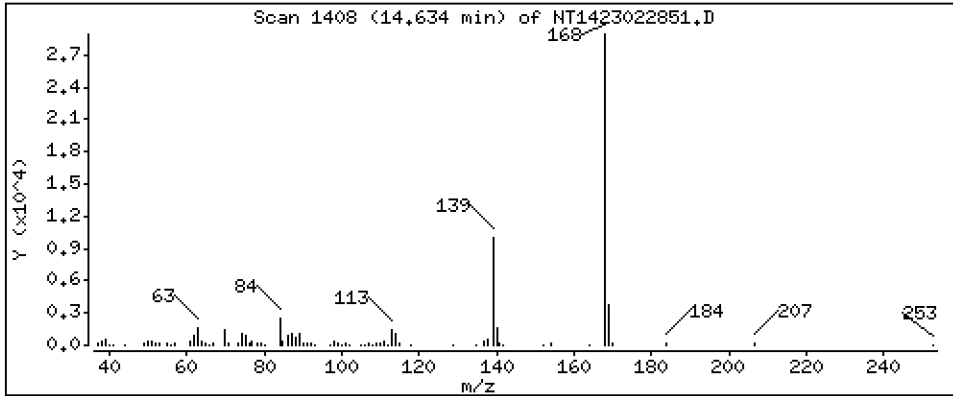
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,5032 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

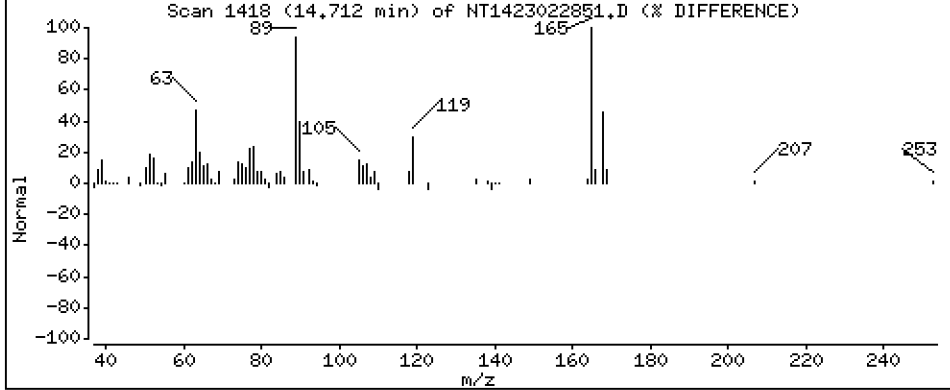
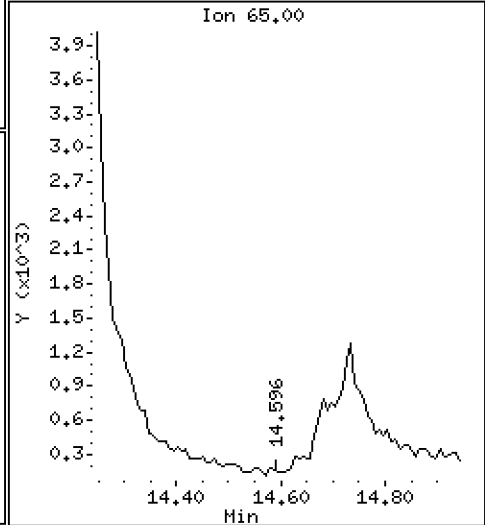
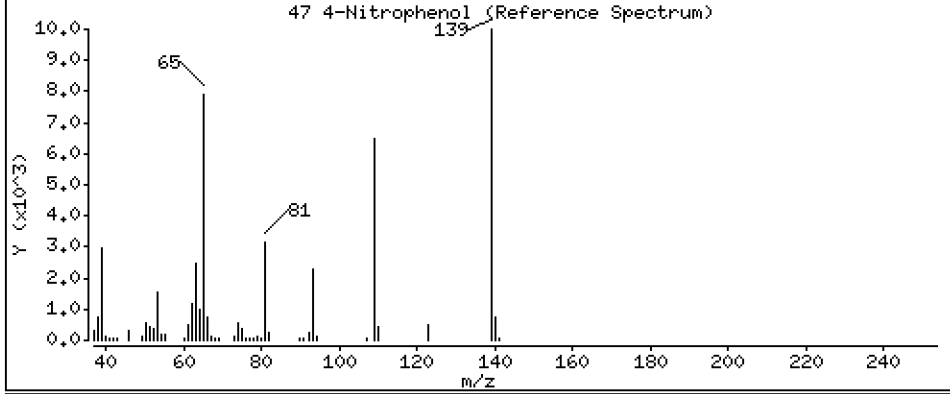
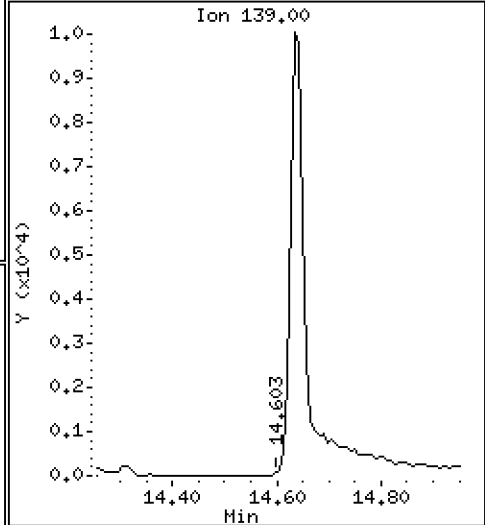
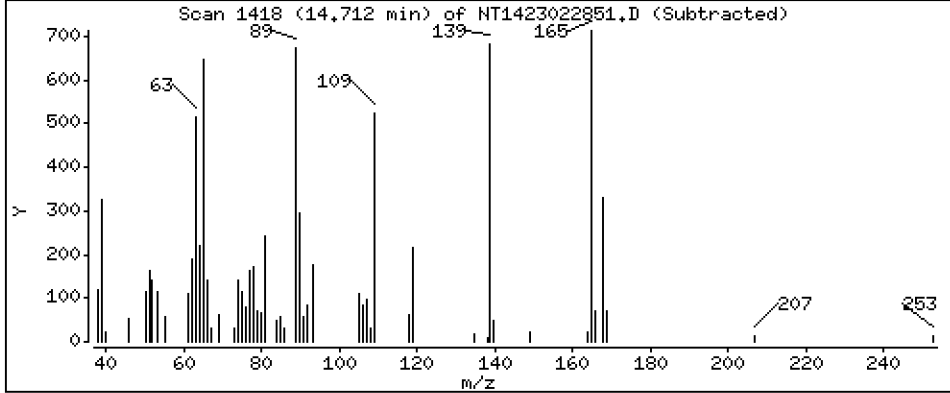
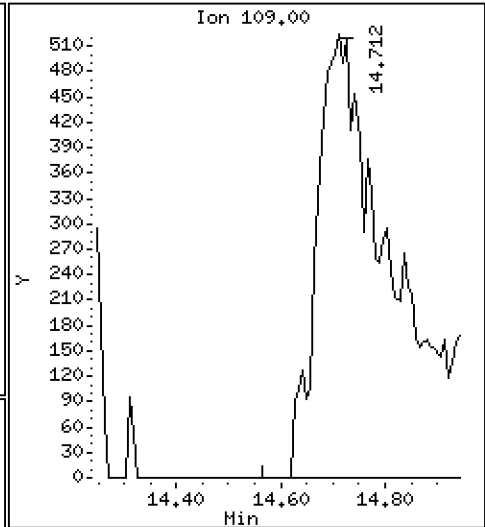
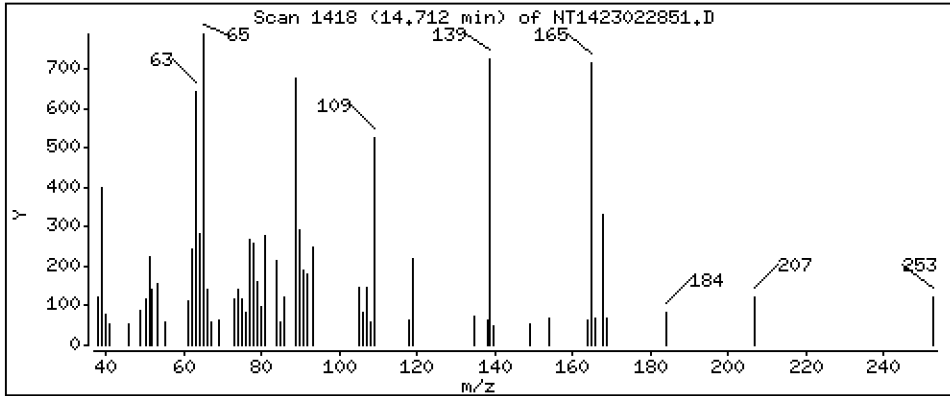
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

47 4-Nitrophenol

Concentration: 0.8288 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

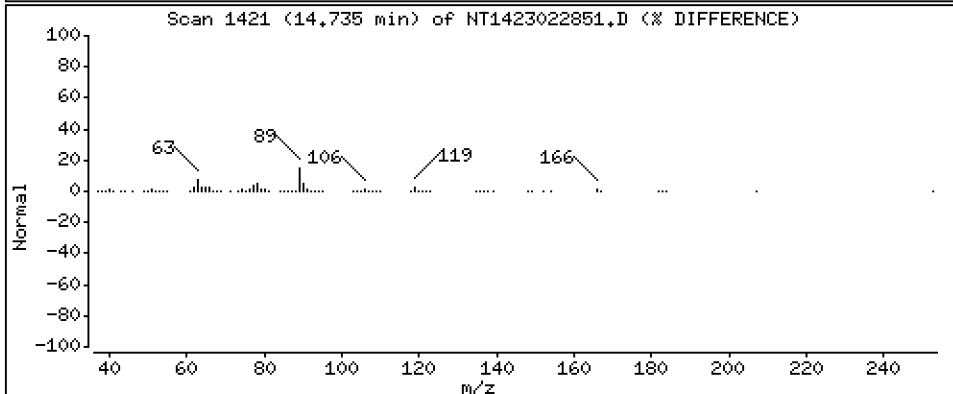
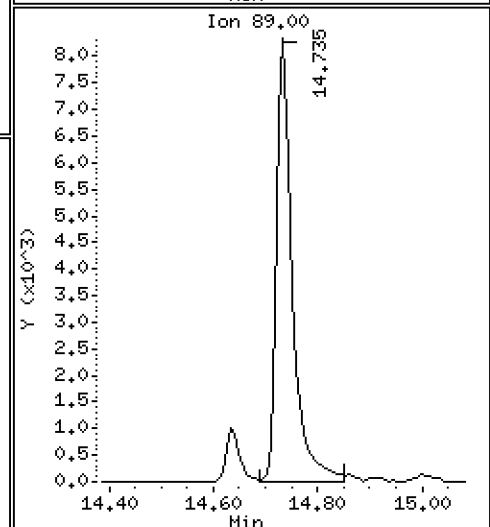
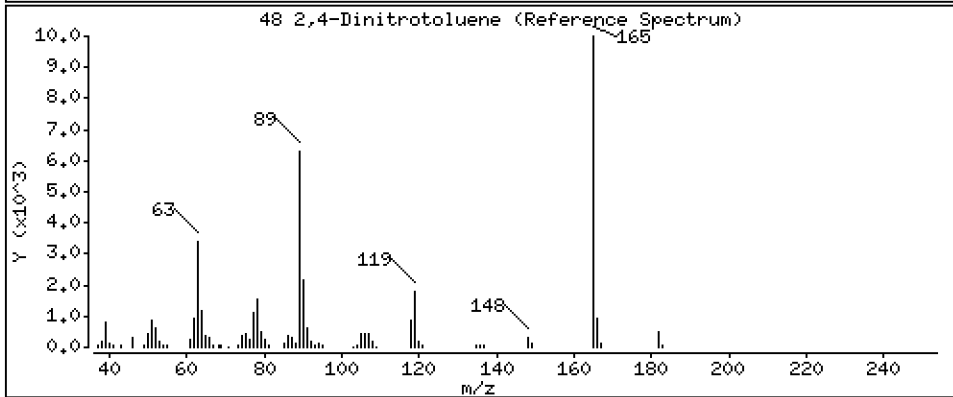
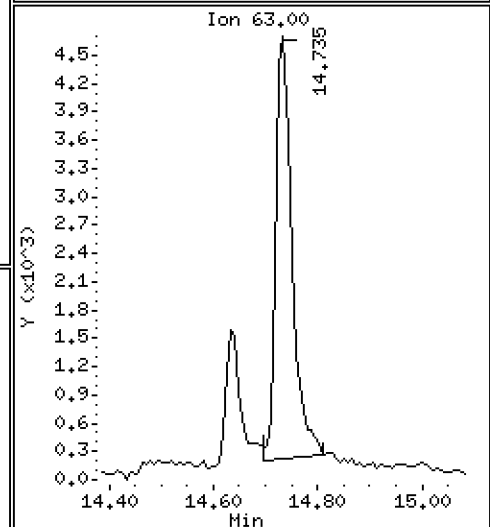
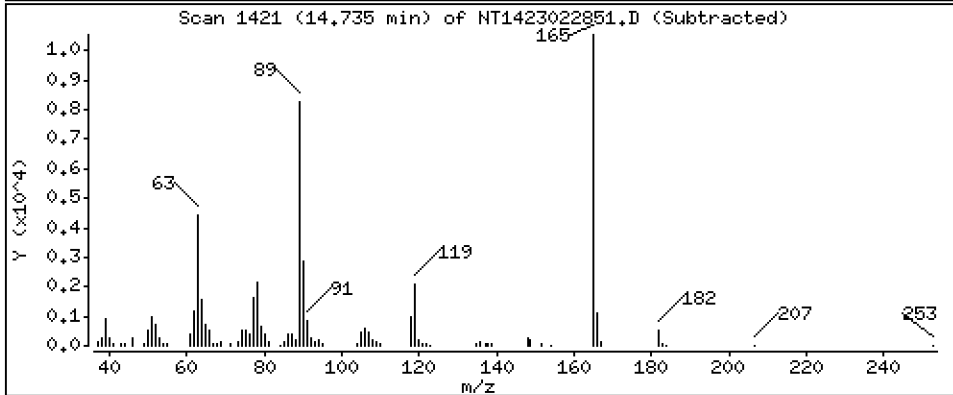
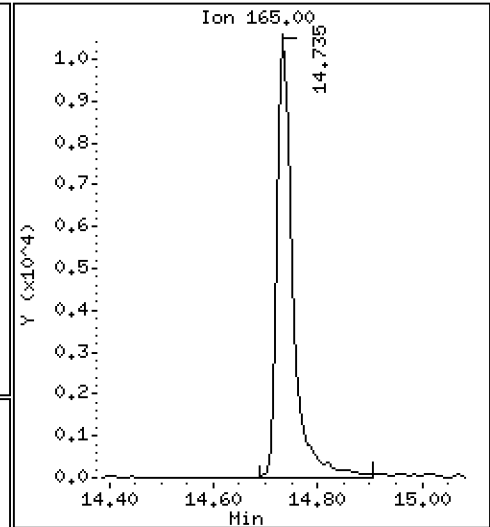
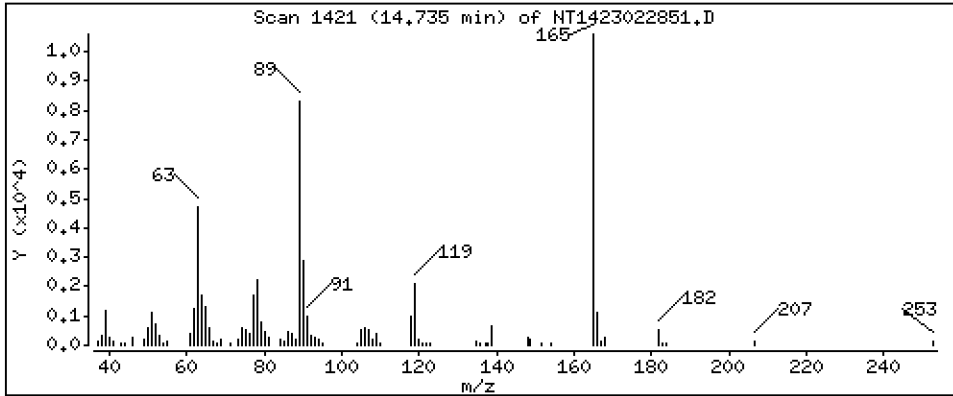
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.9033 ug/mL





Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

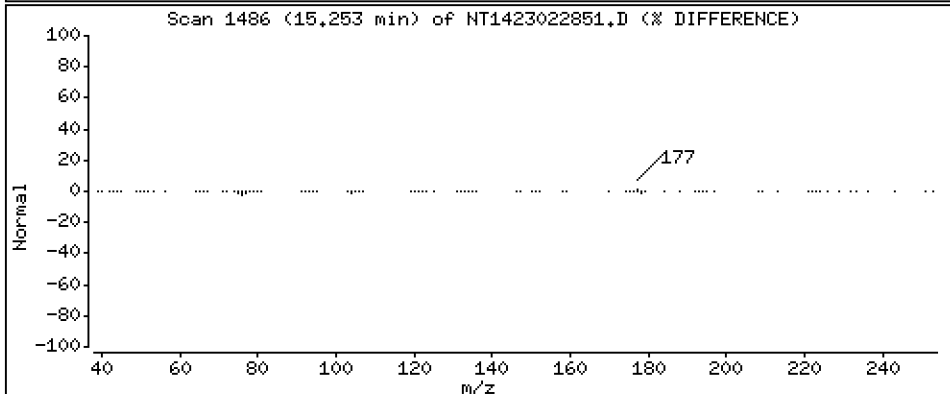
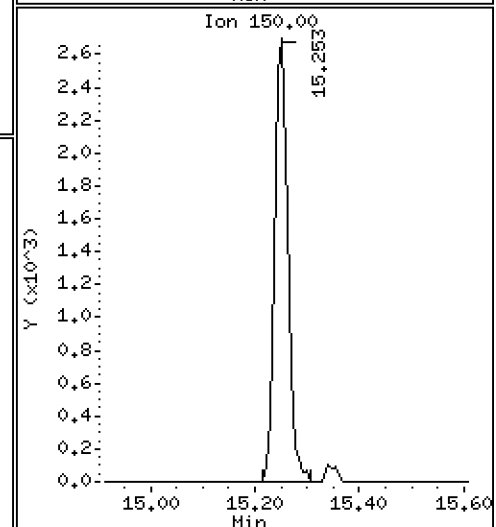
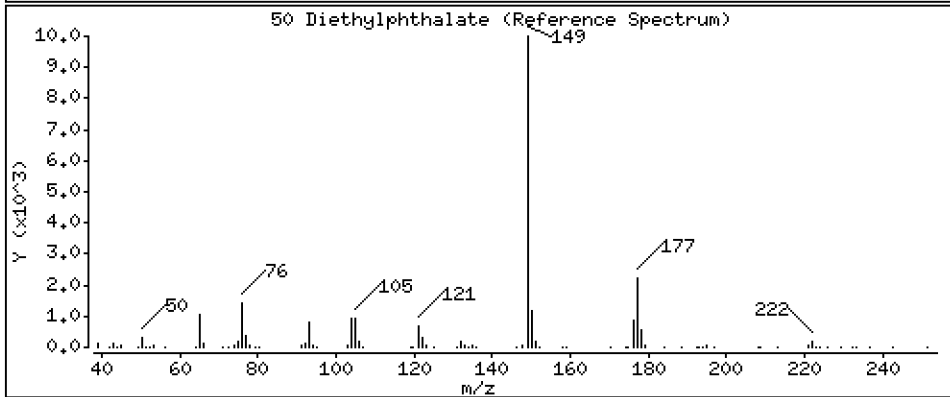
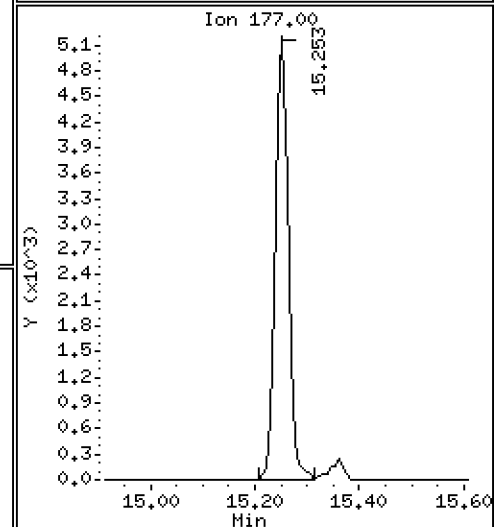
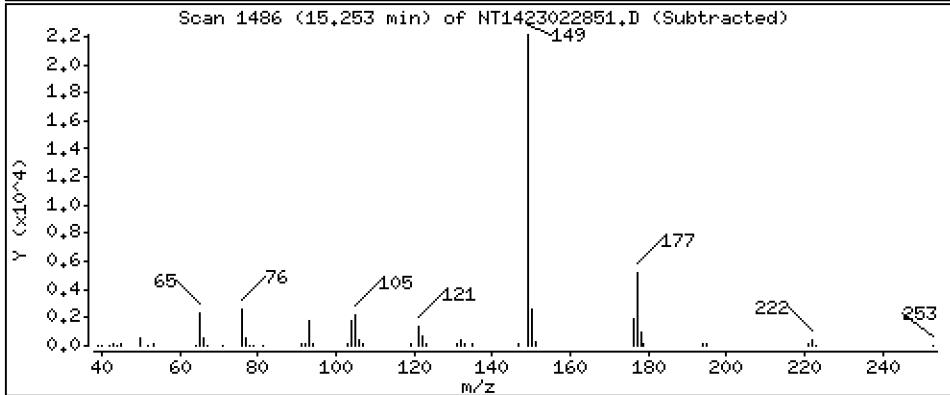
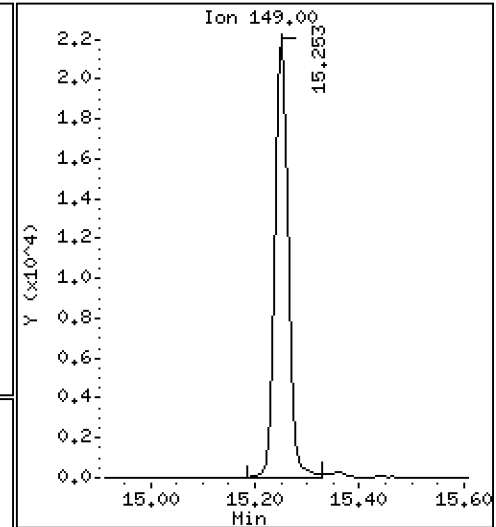
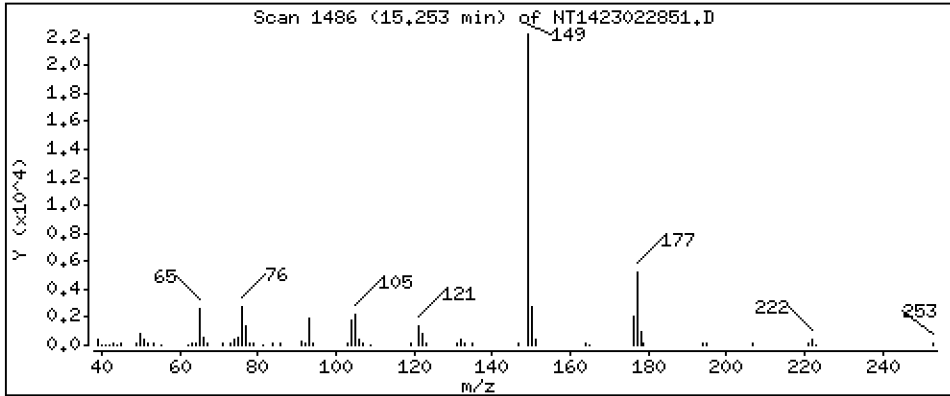
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,5625 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

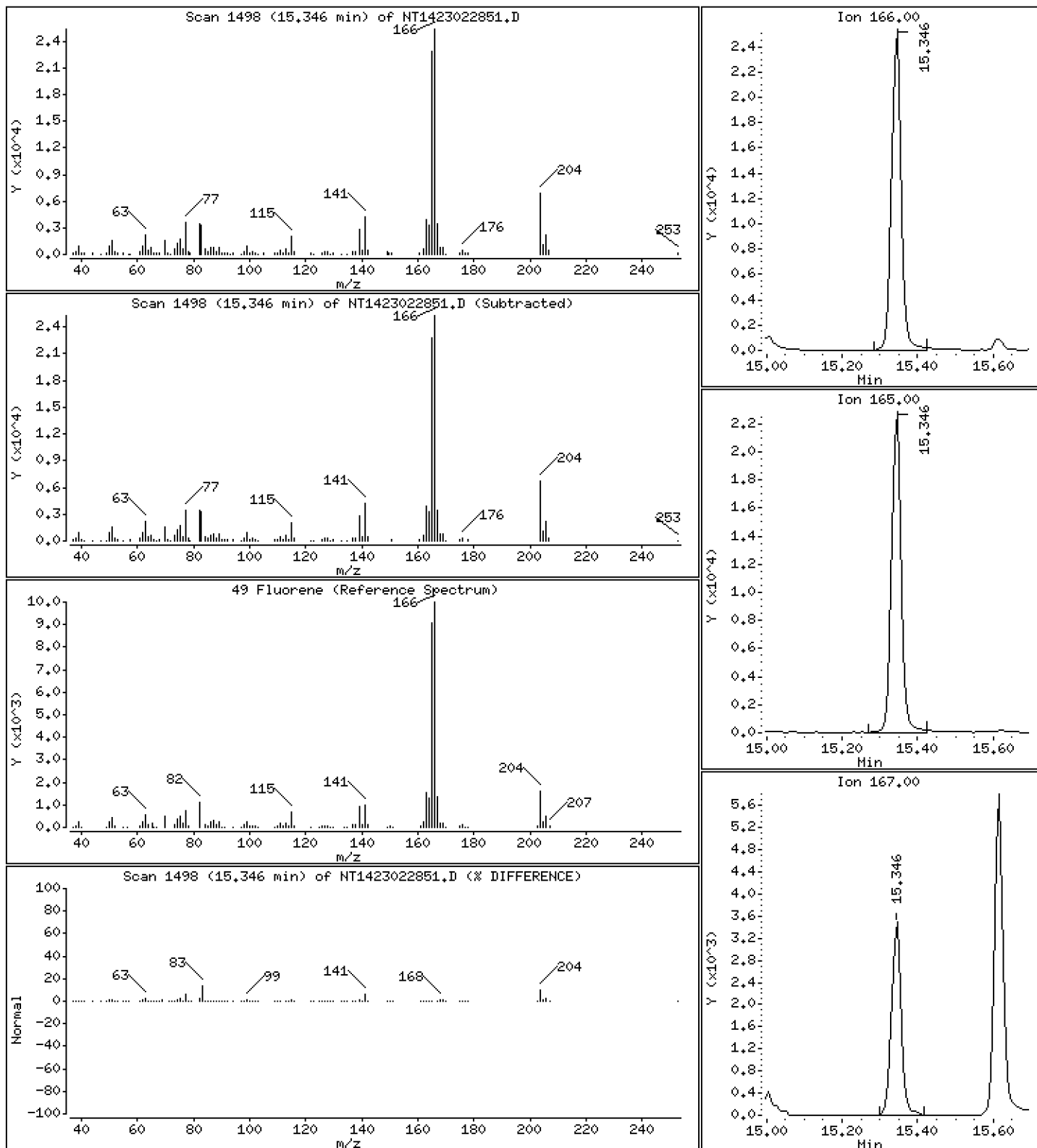
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,5425 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

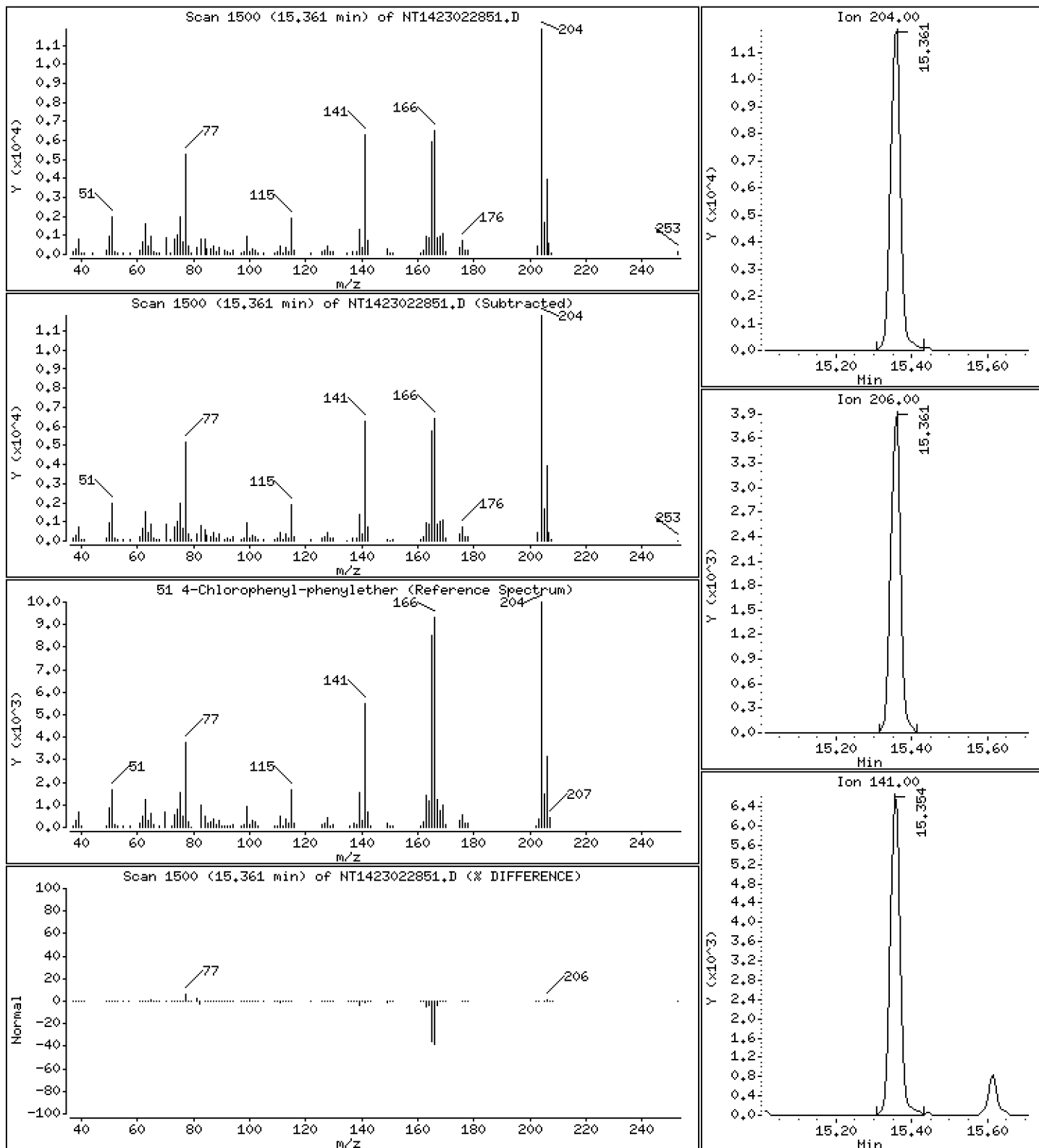
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,5008 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

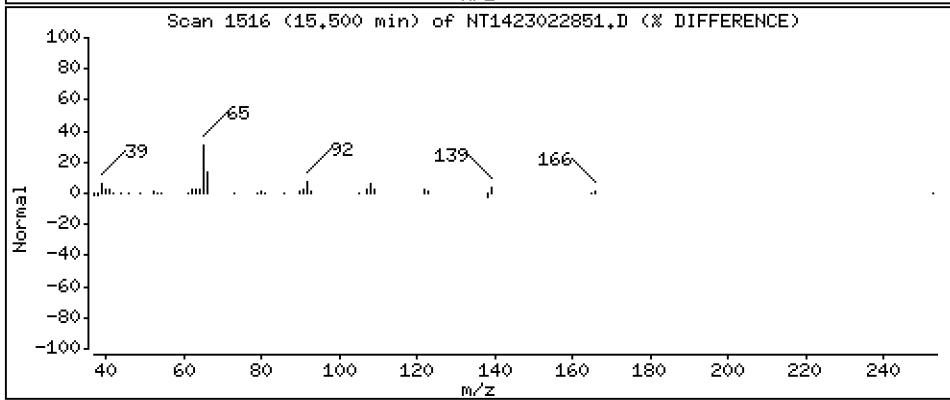
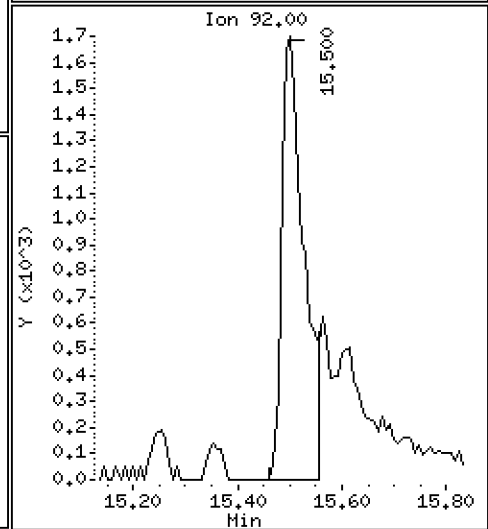
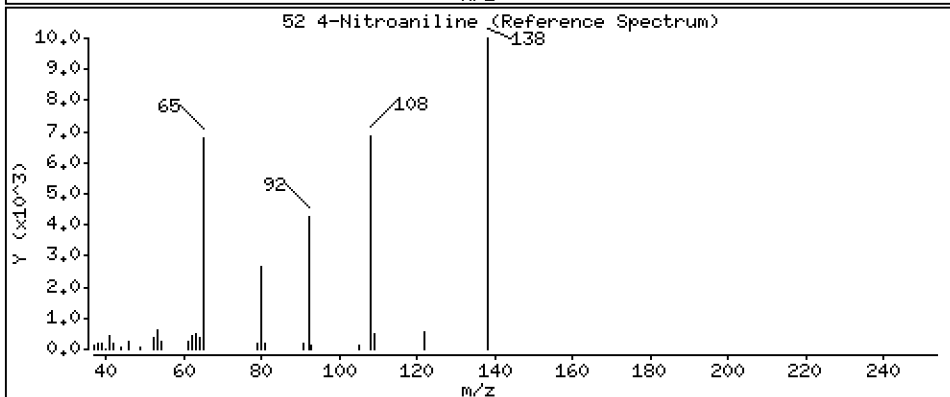
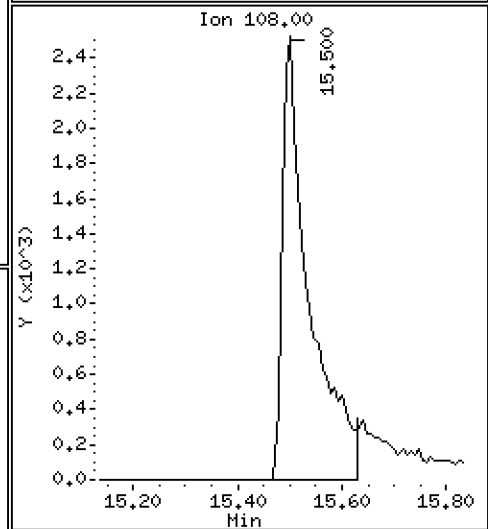
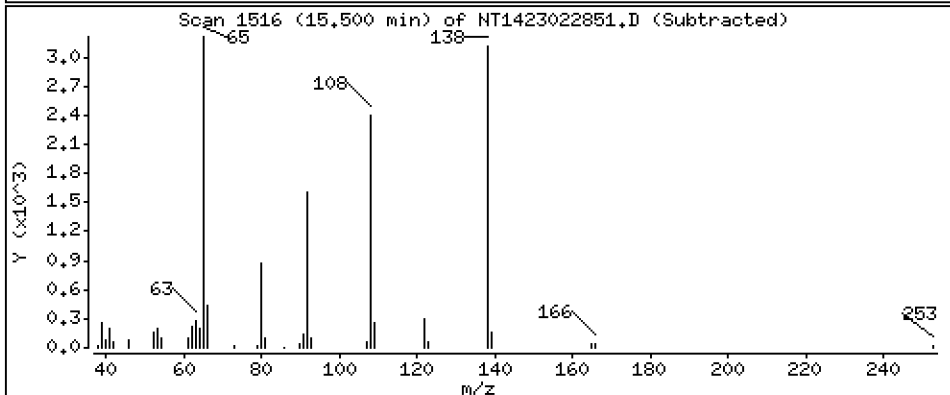
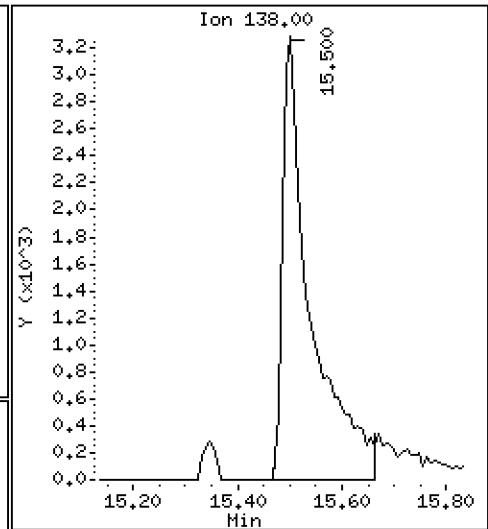
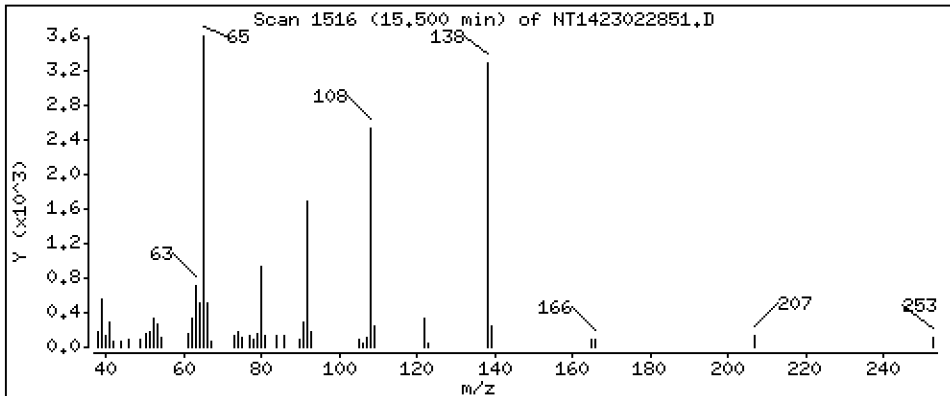
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,7373 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

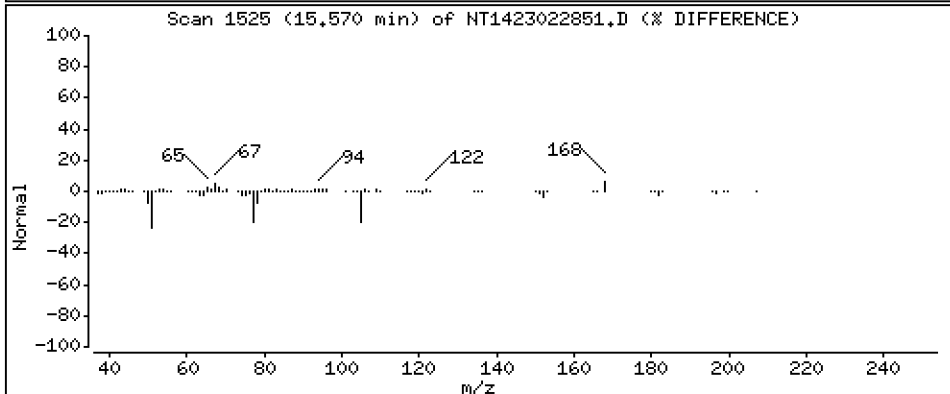
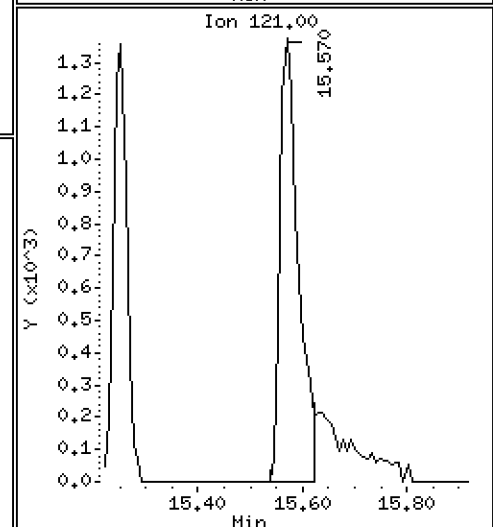
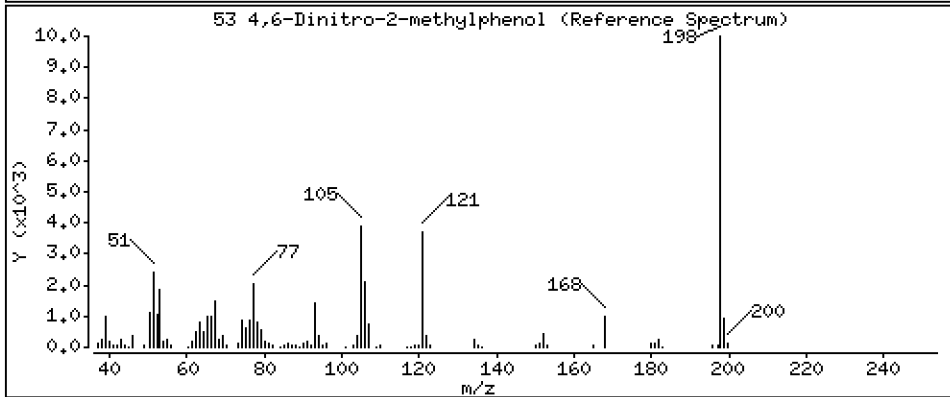
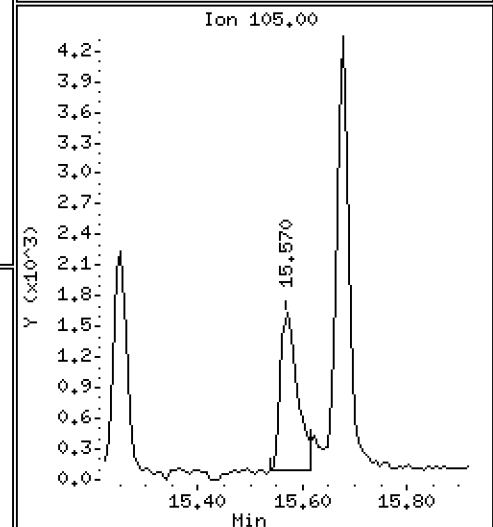
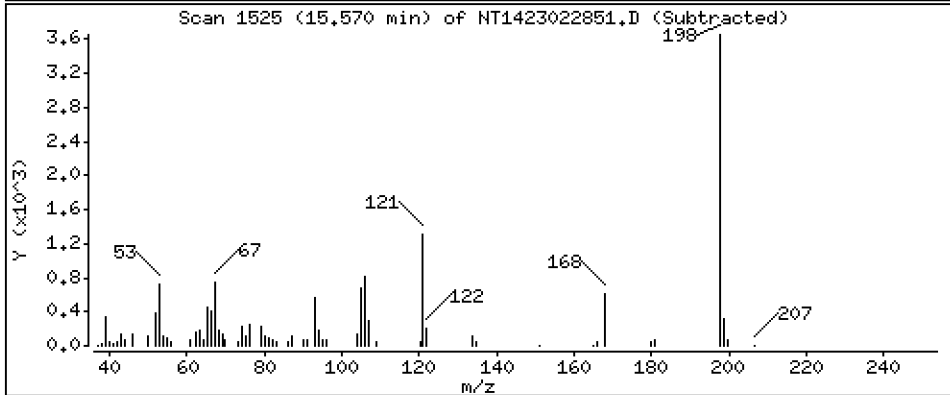
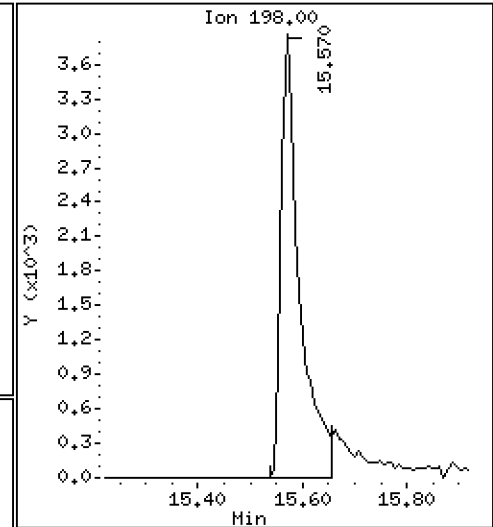
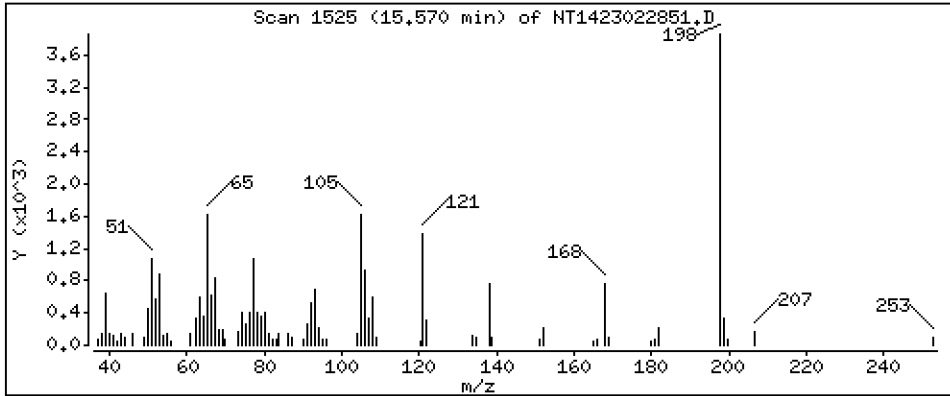
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 0.6805 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

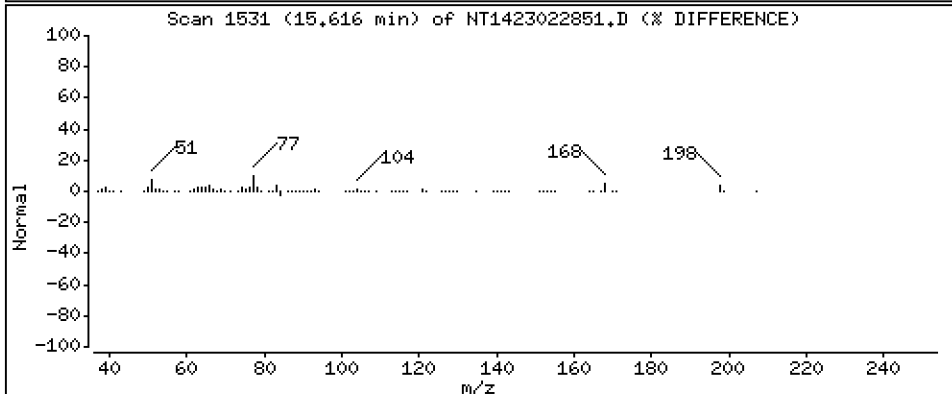
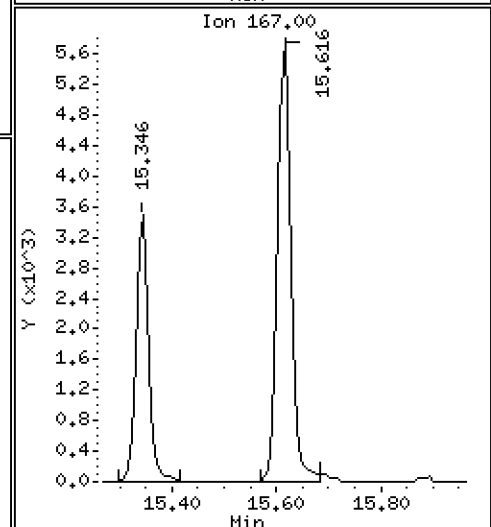
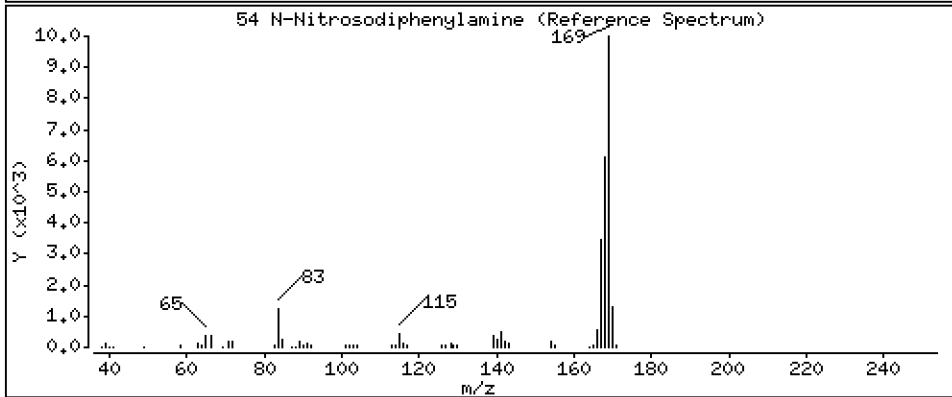
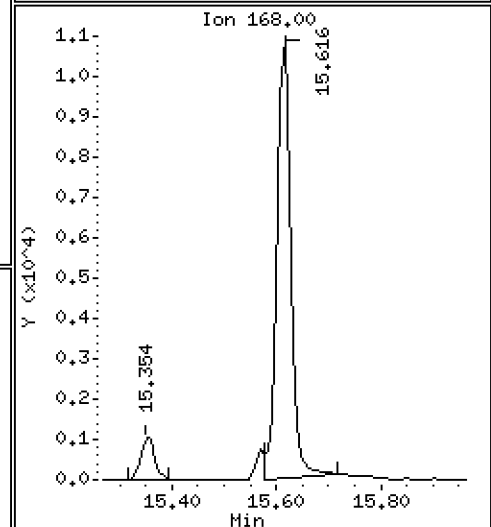
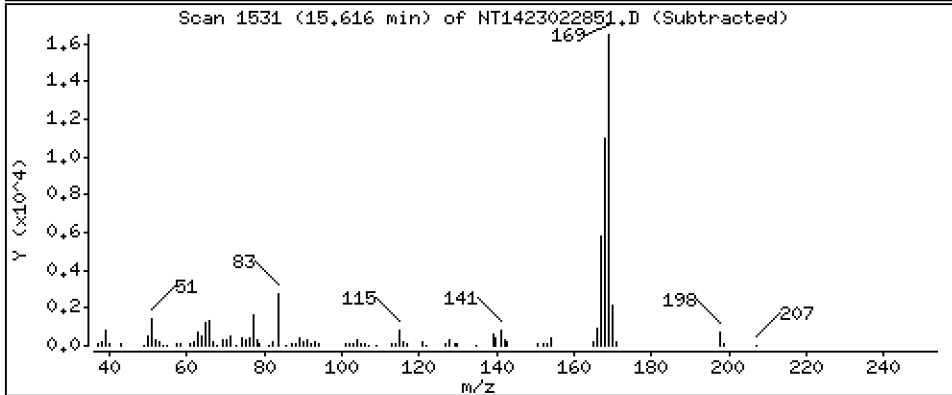
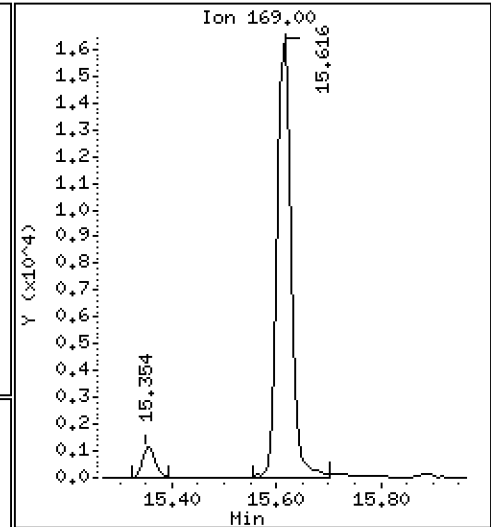
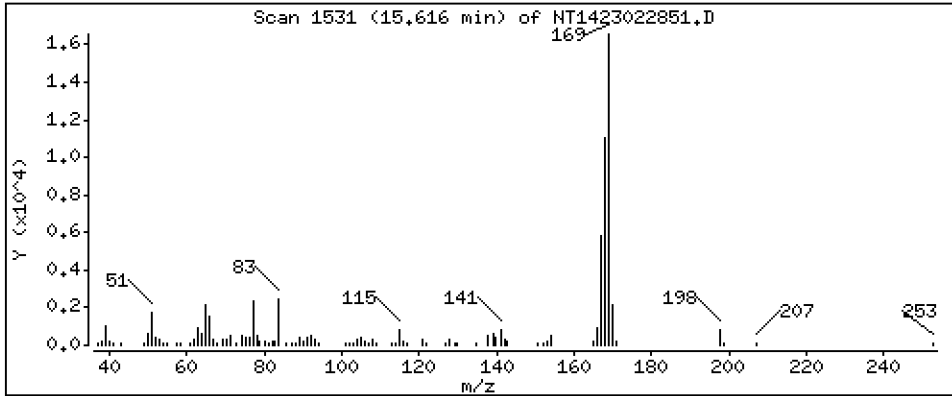
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,5667 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

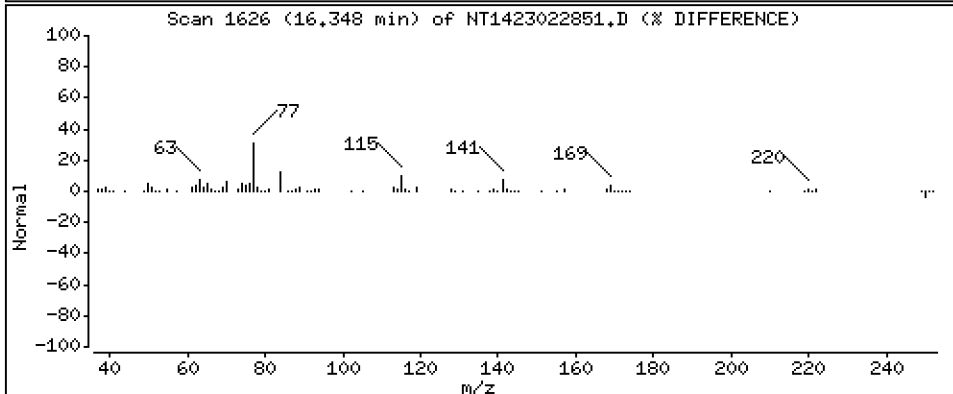
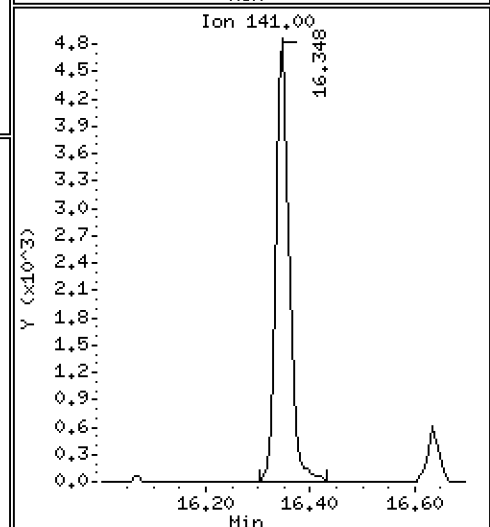
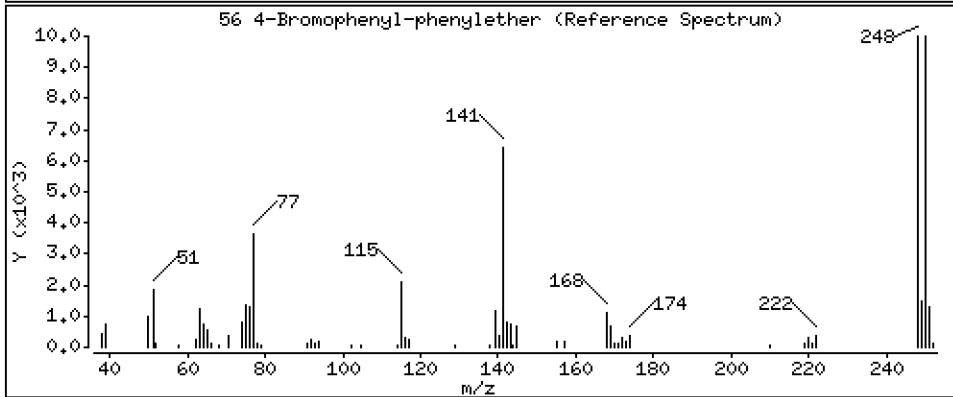
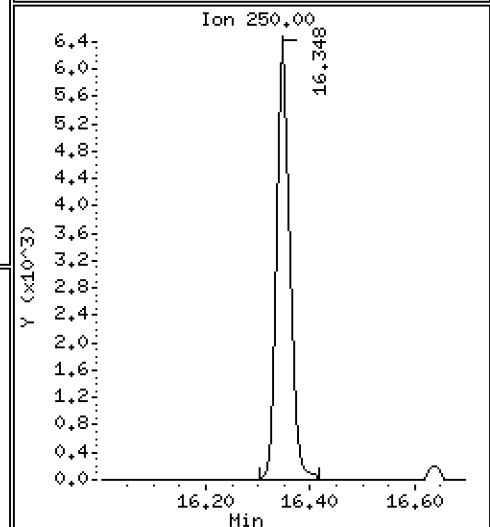
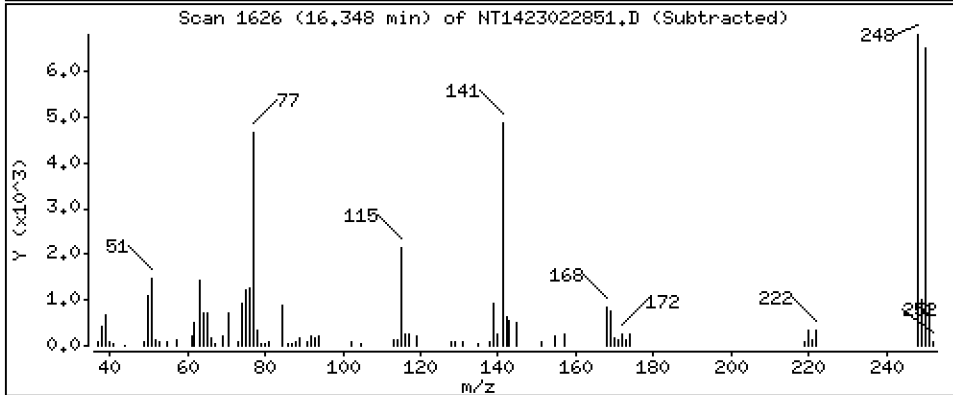
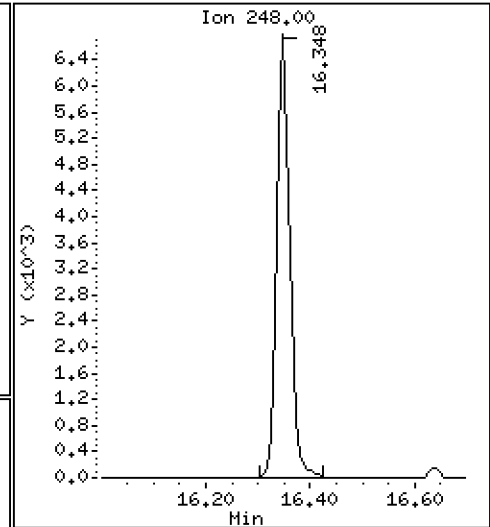
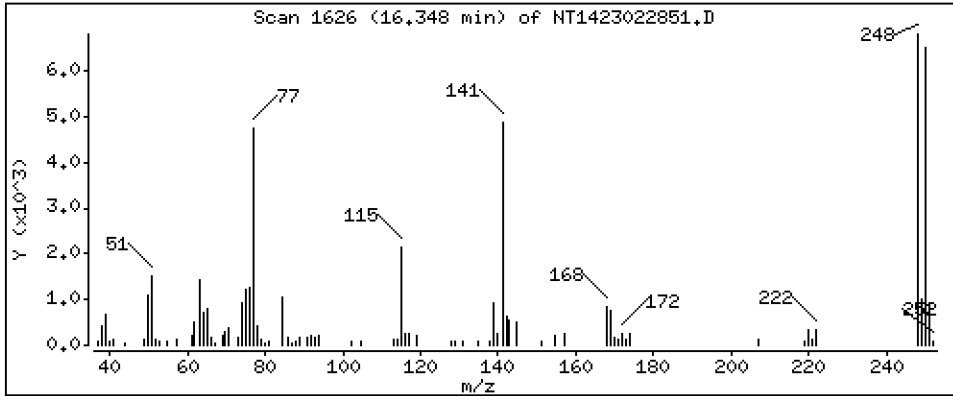
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,5058 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

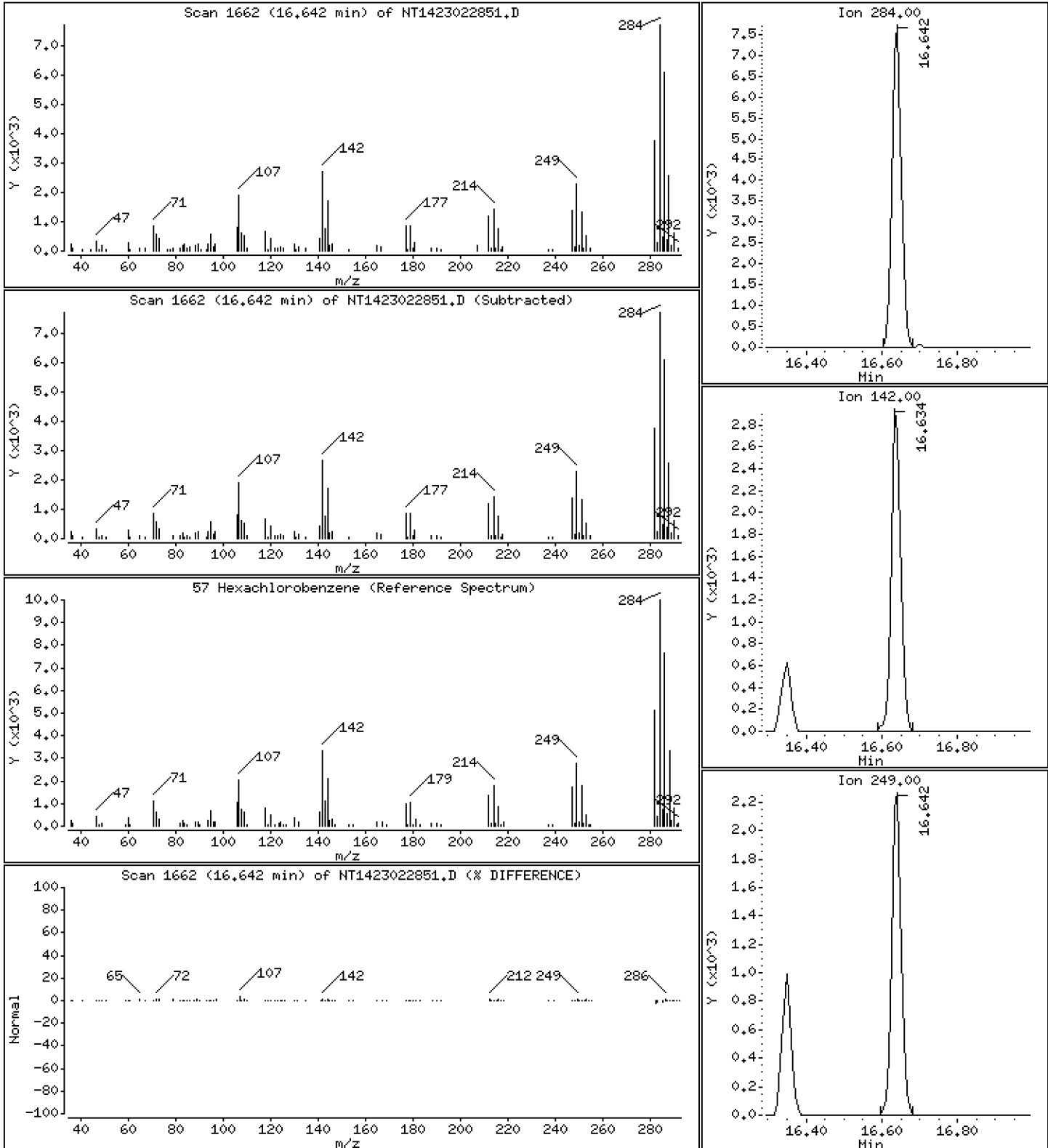
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,5168 ug/mL





Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

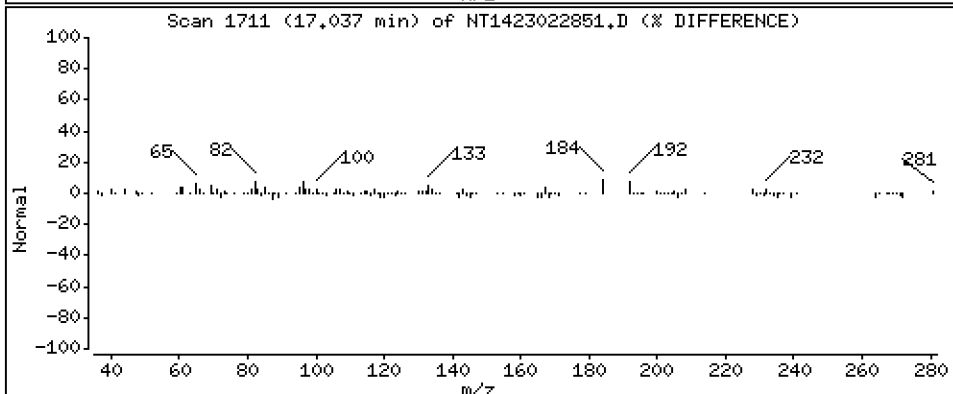
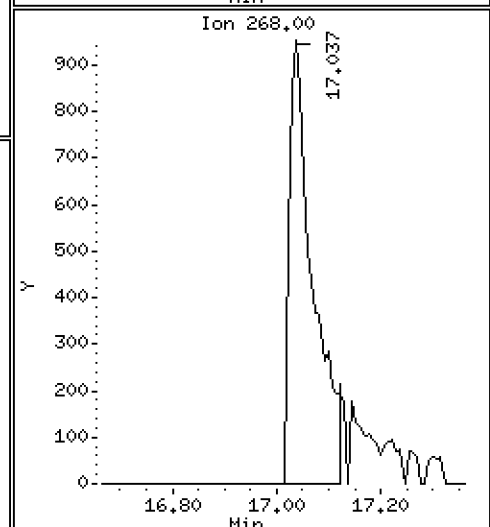
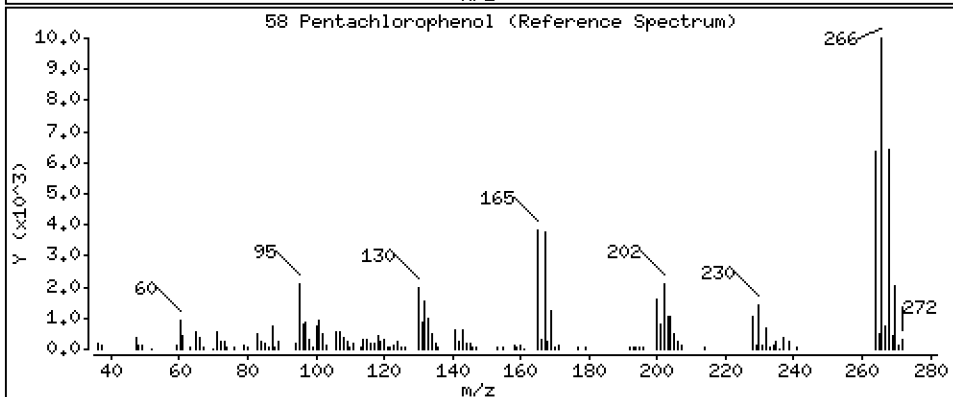
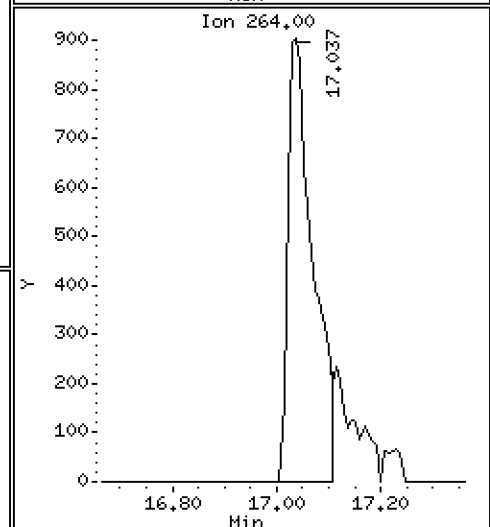
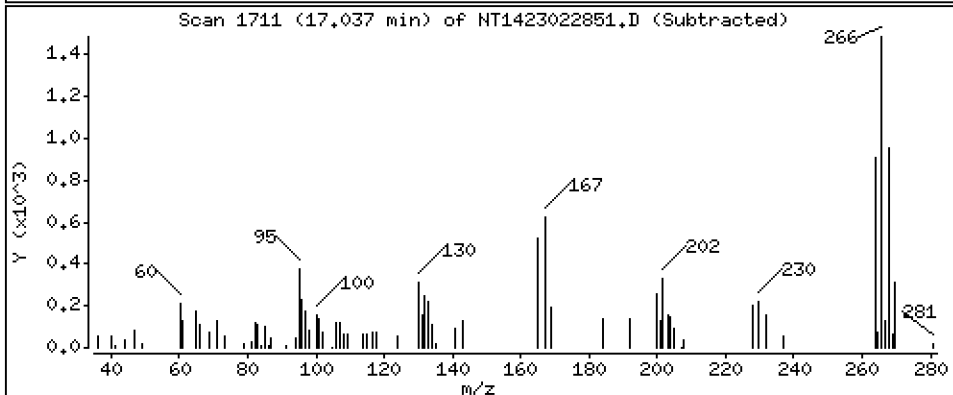
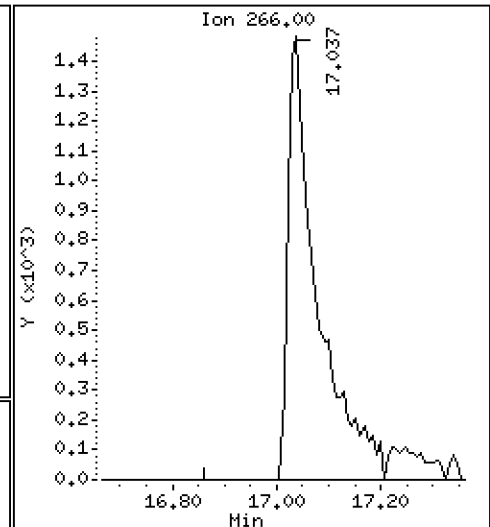
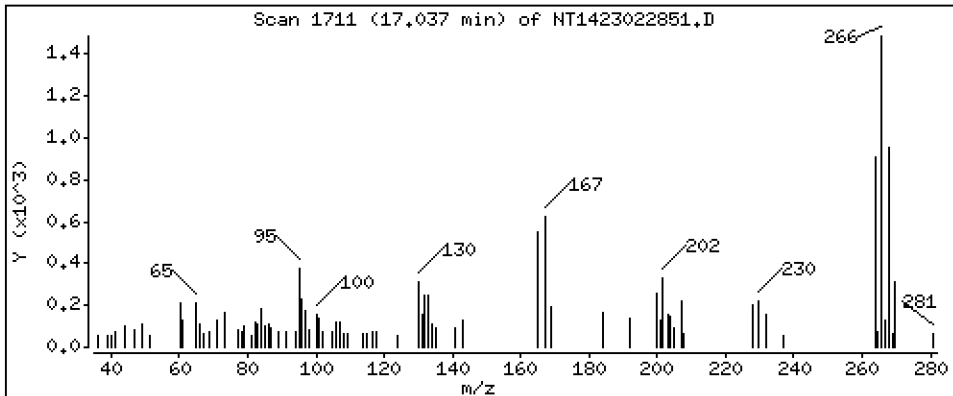
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,5527 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

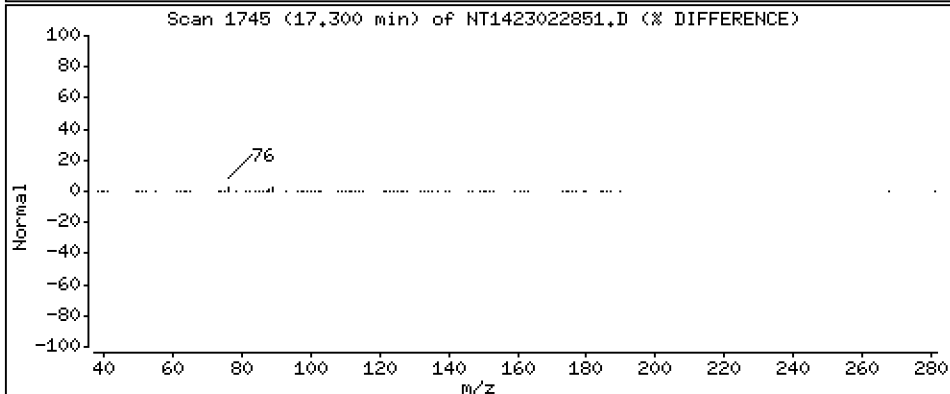
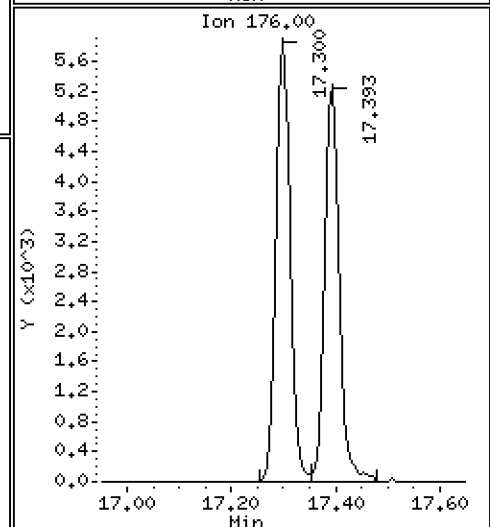
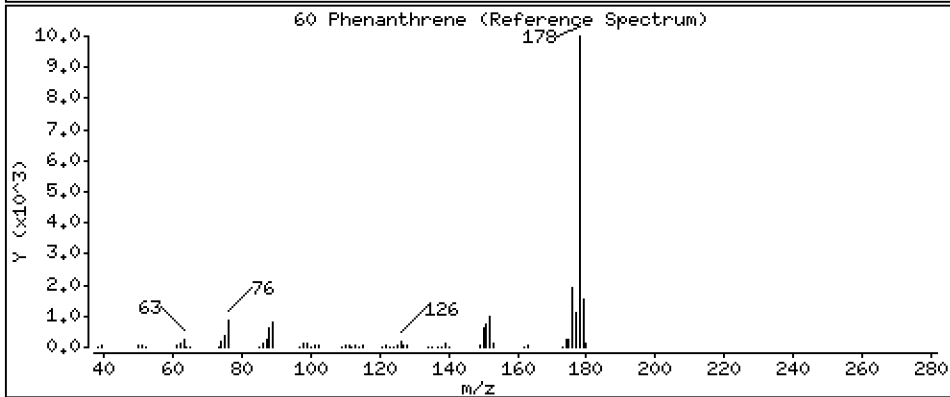
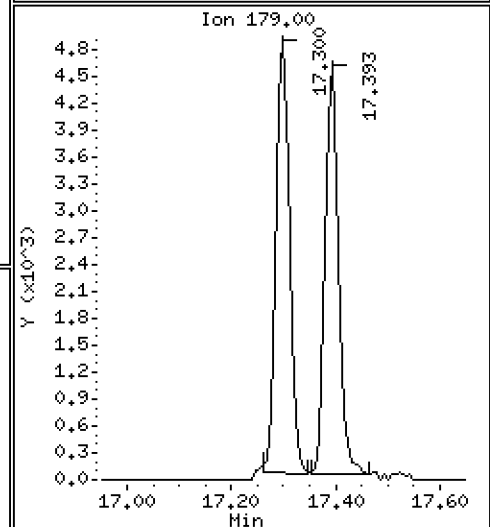
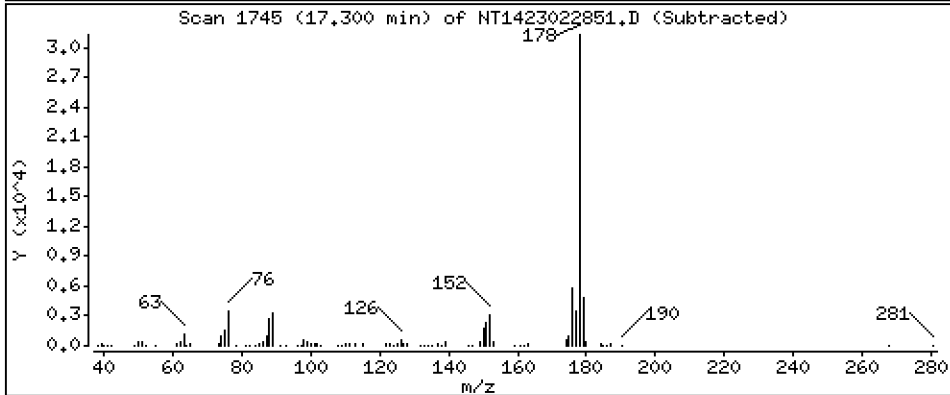
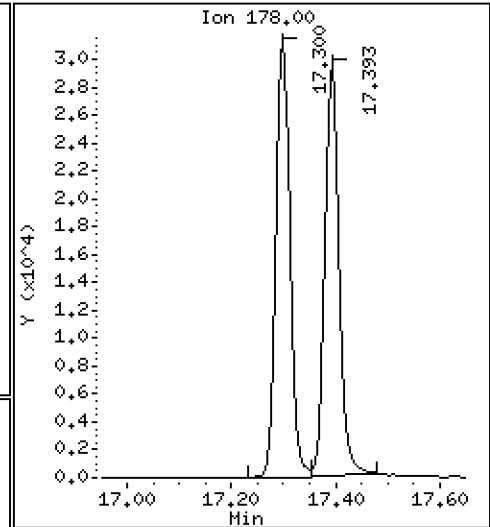
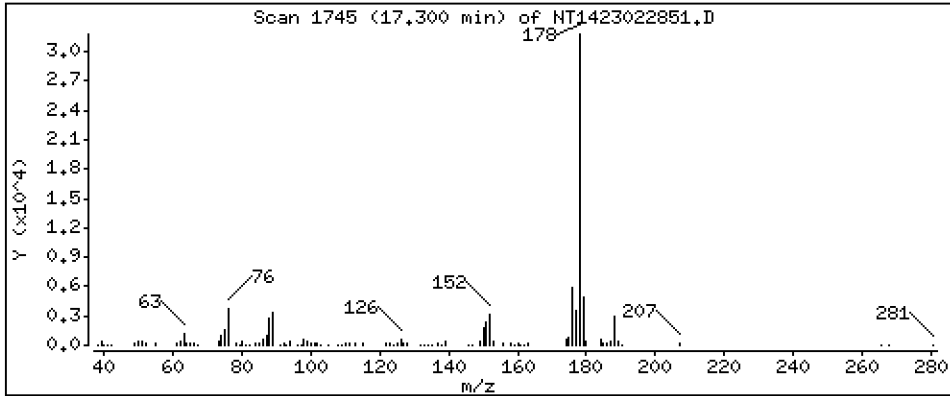
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 0.5174 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

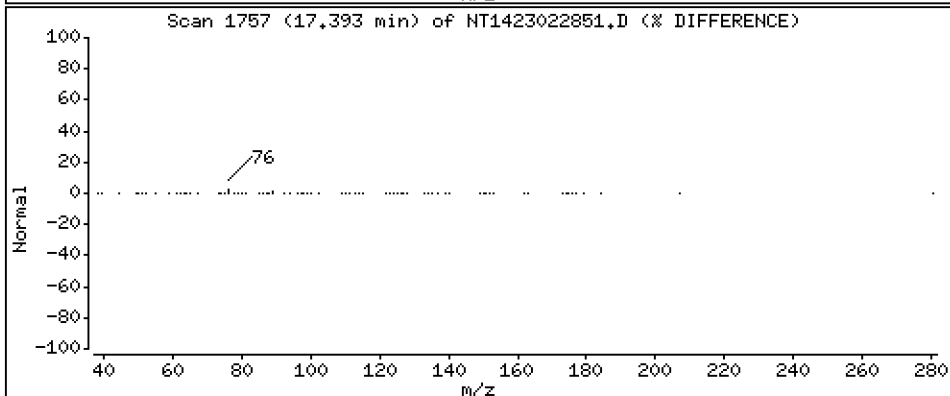
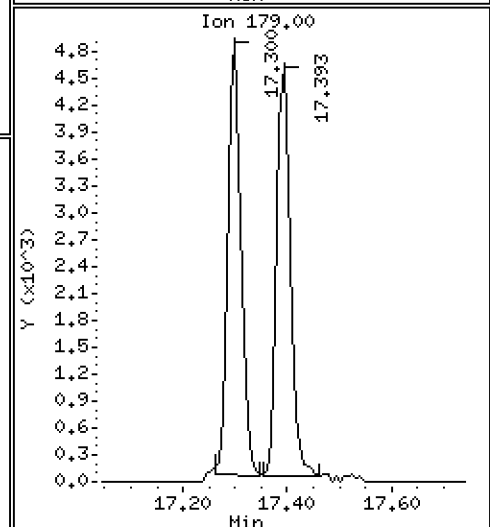
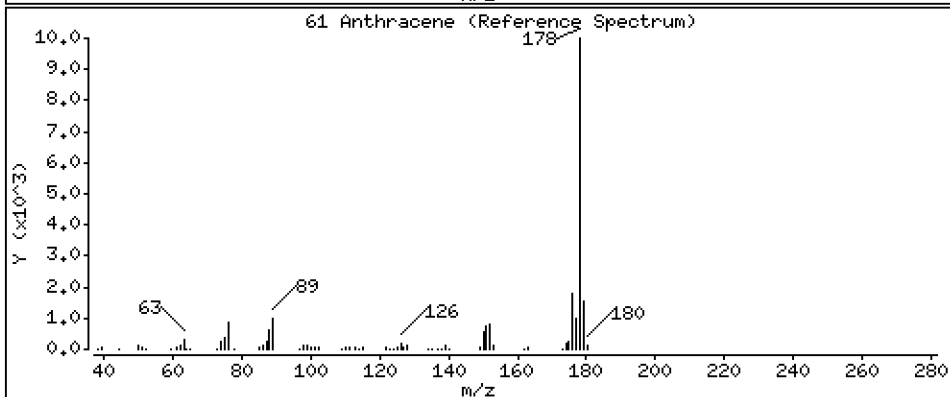
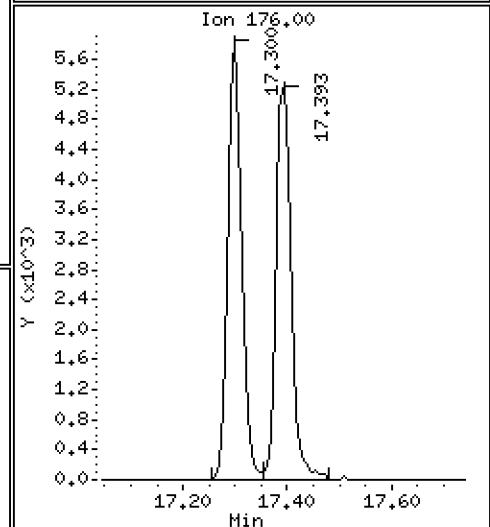
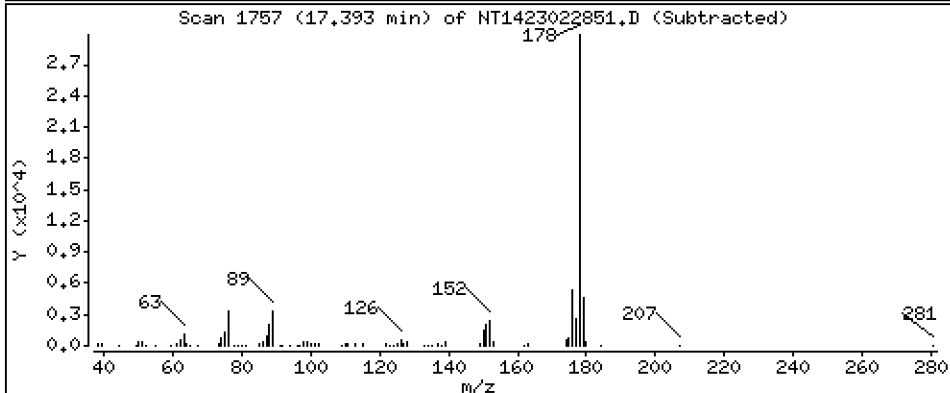
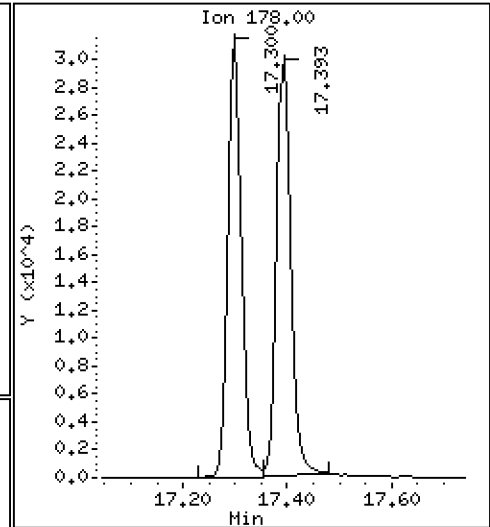
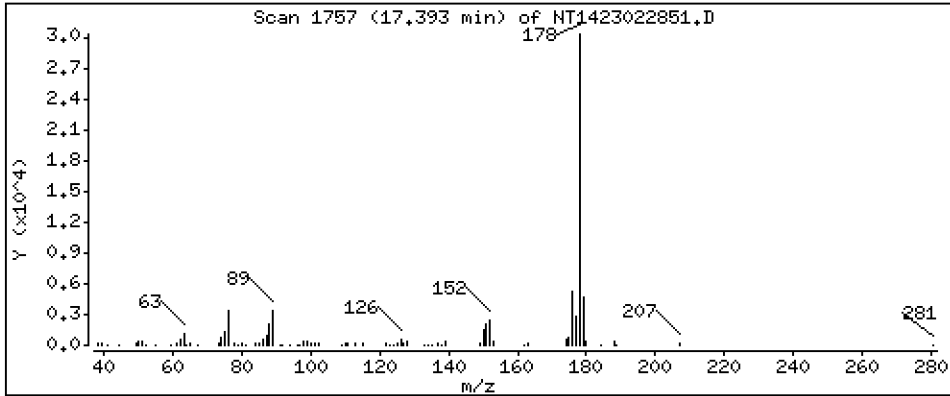
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,5267 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

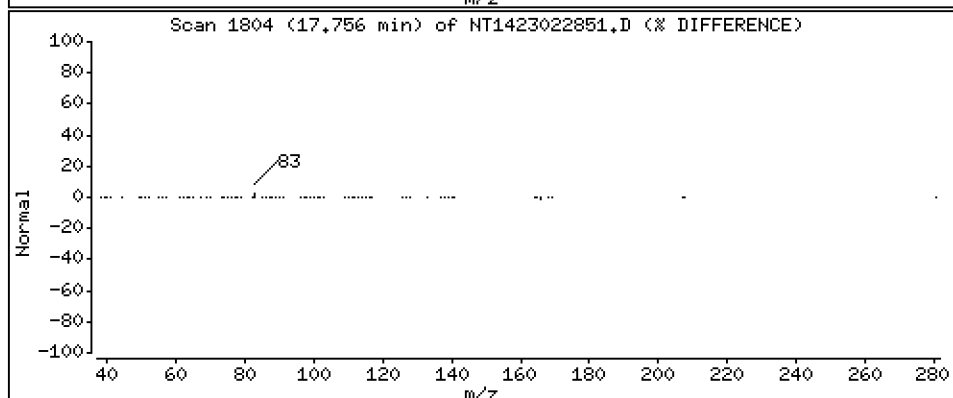
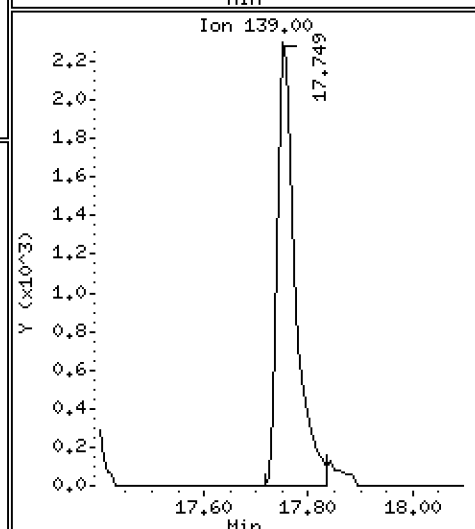
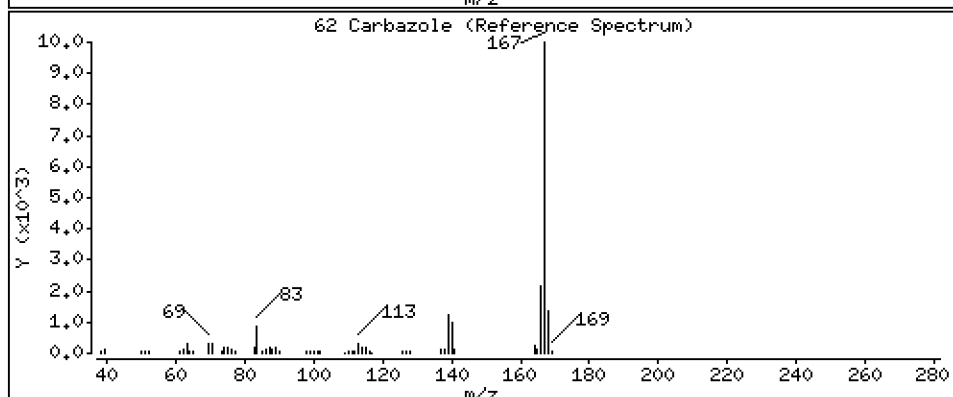
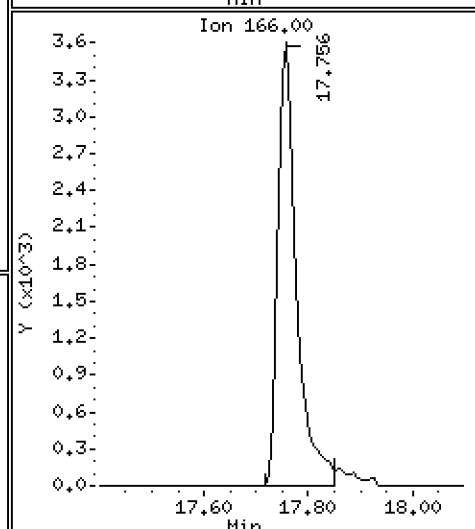
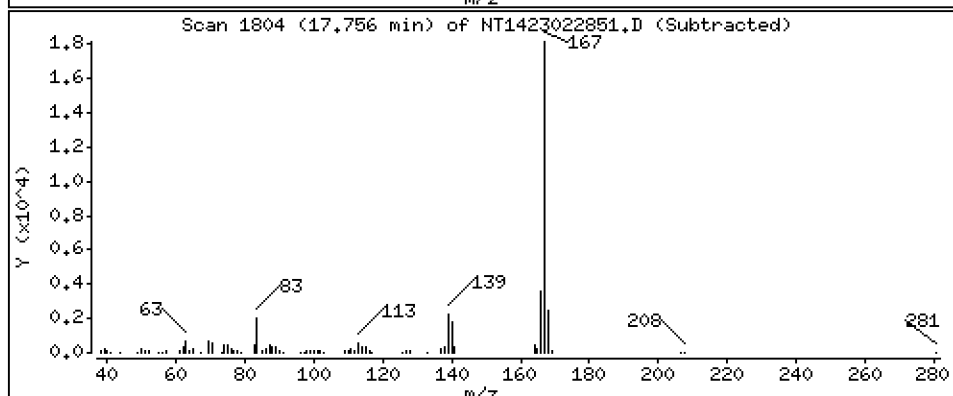
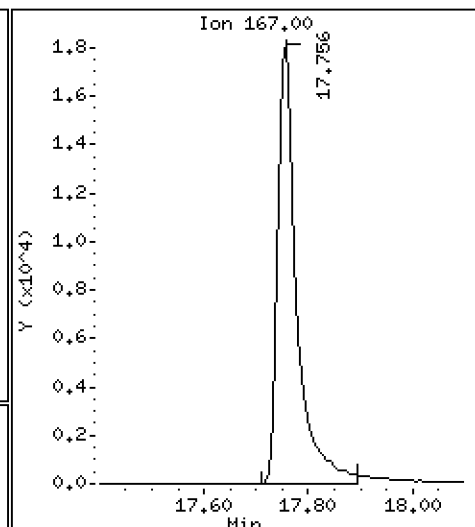
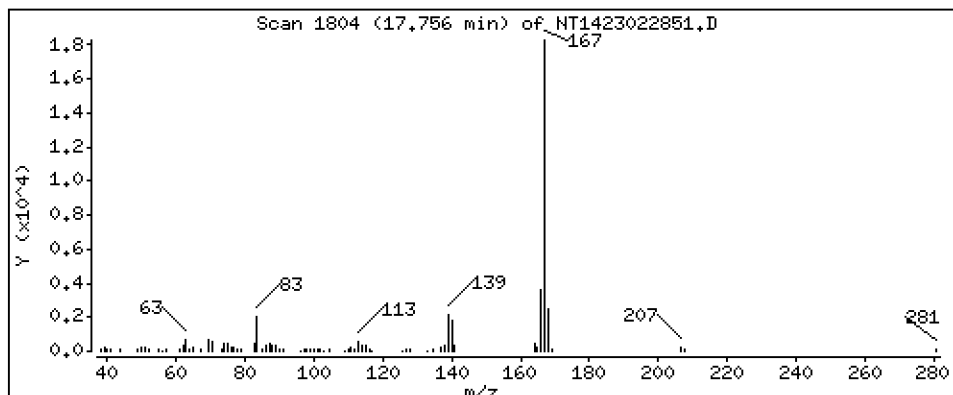
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,5008 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

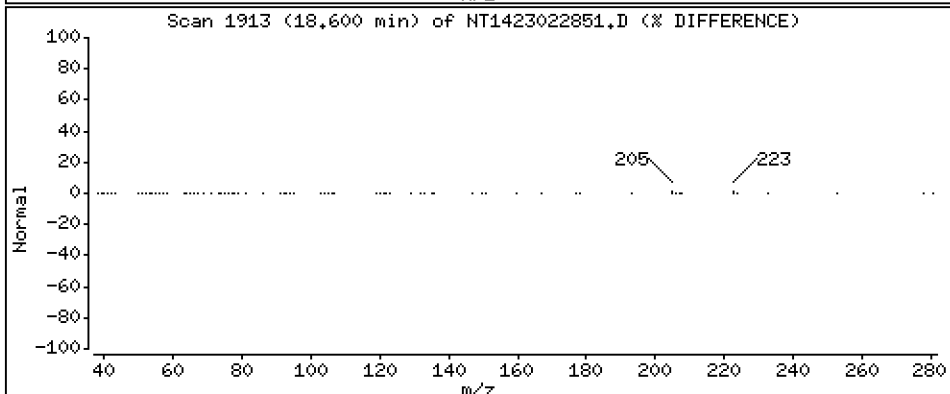
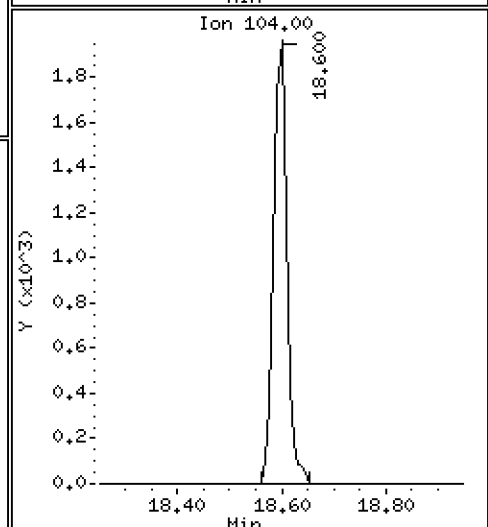
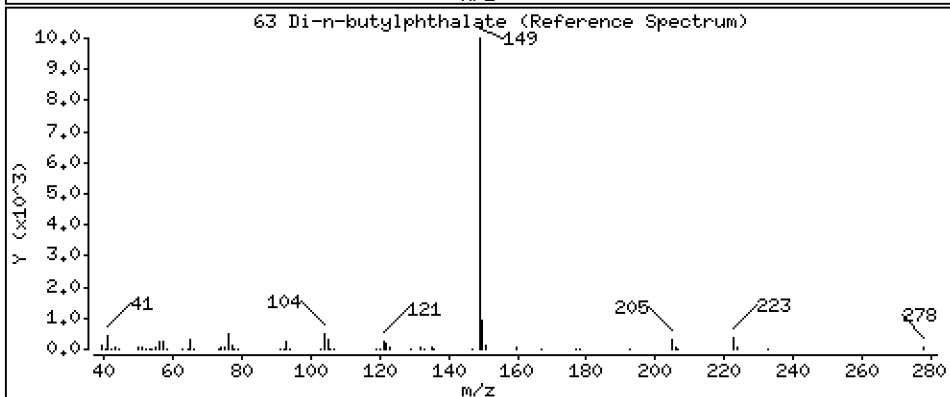
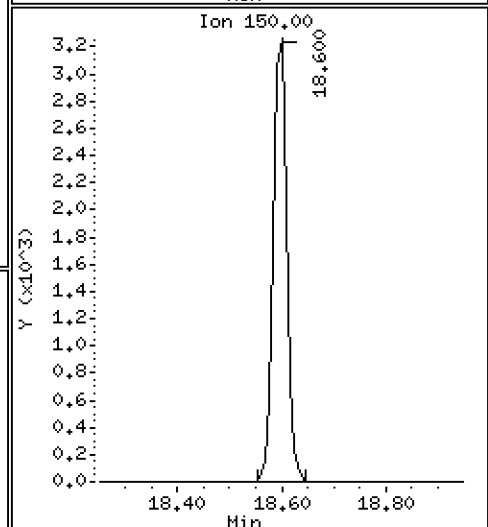
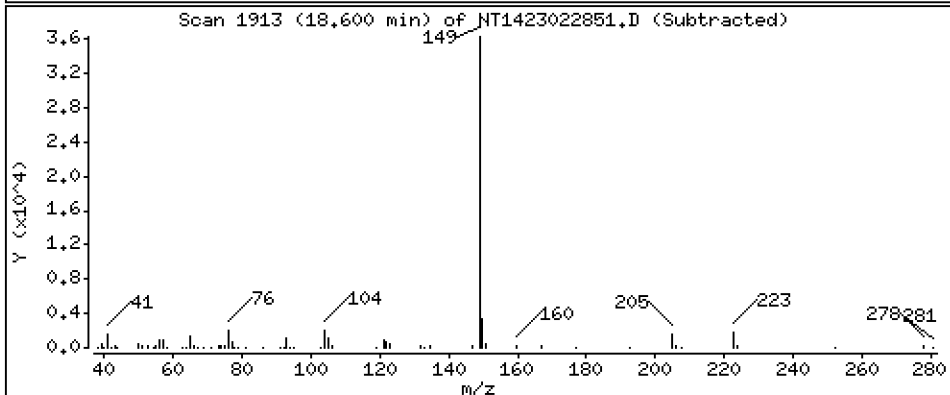
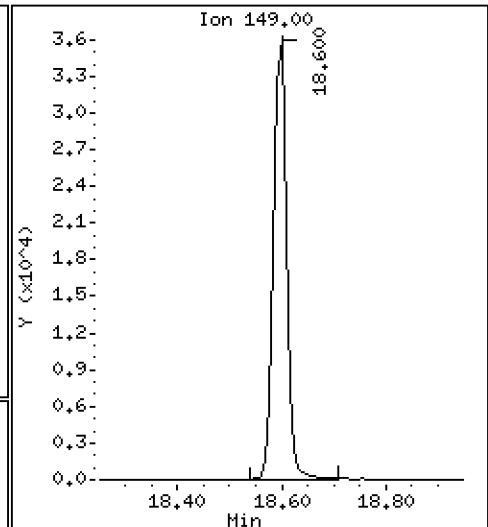
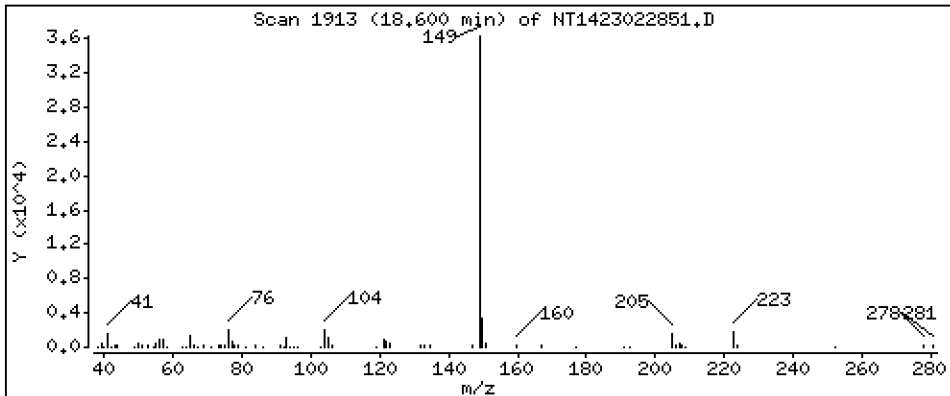
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,5148 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

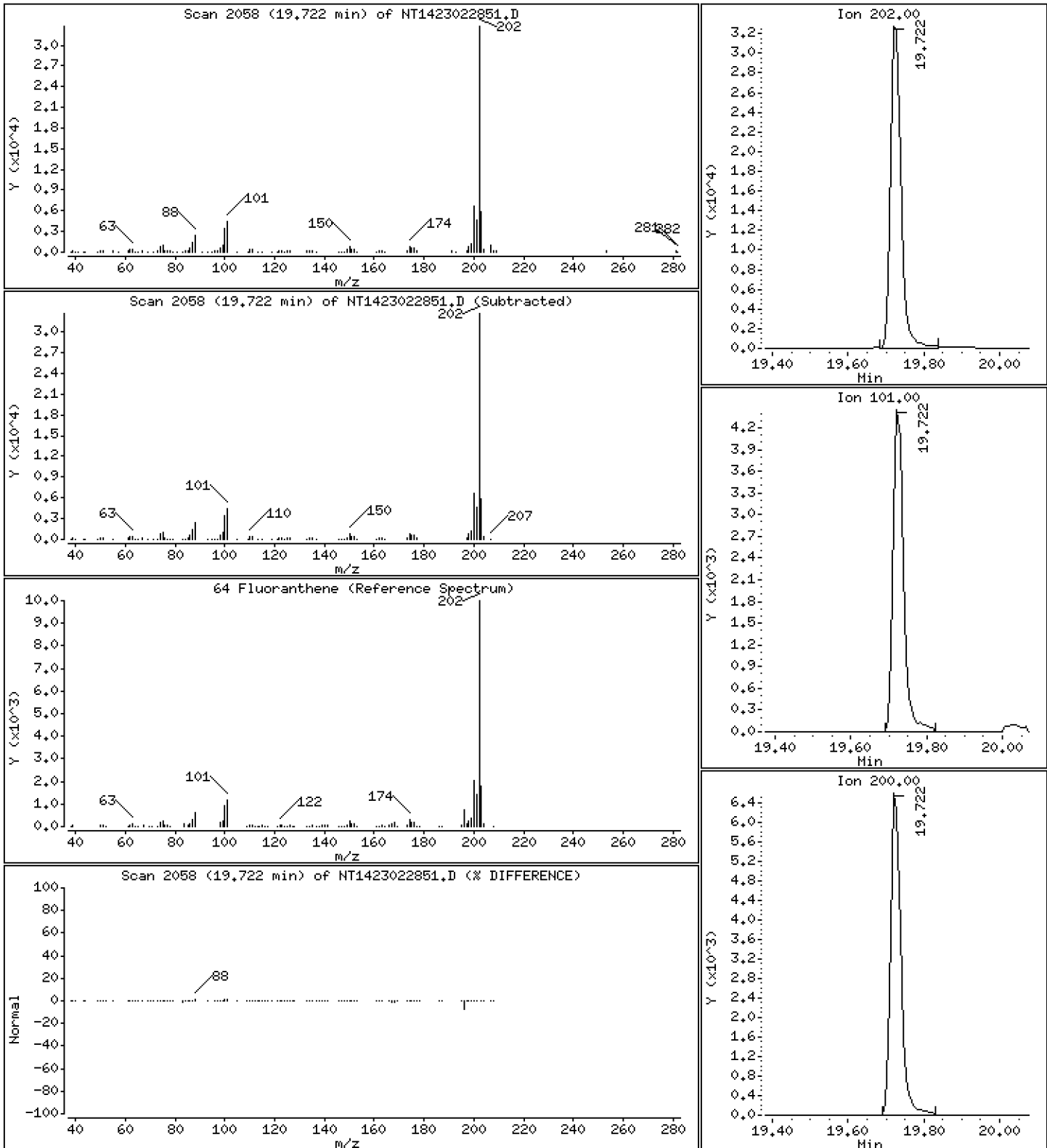
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,4660 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

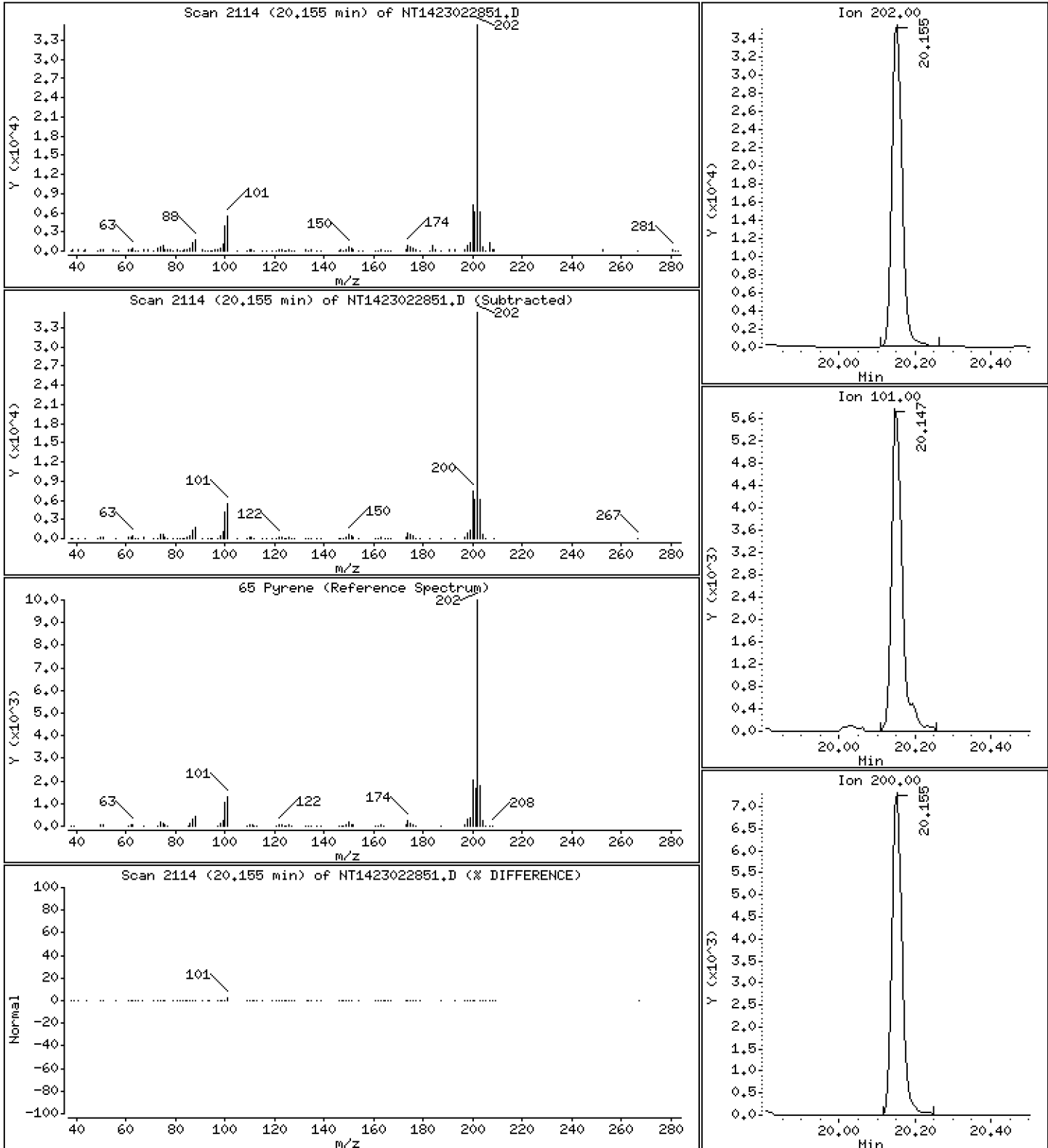
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,4661 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

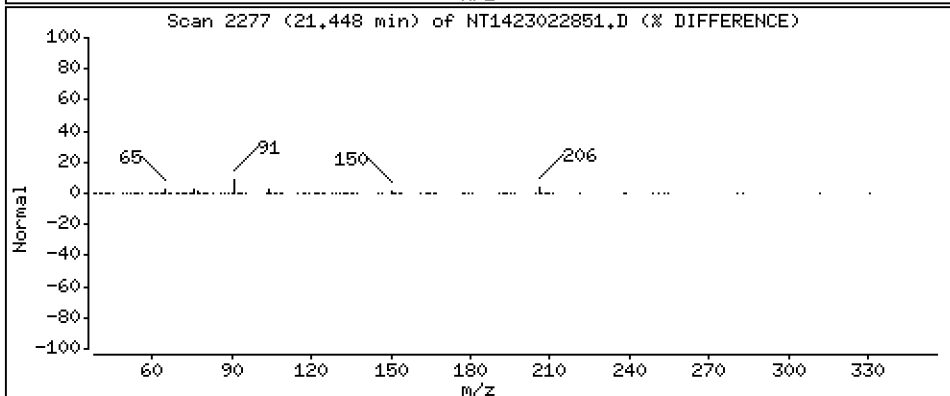
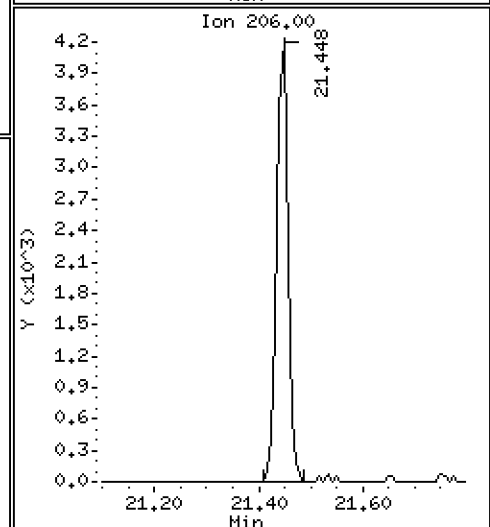
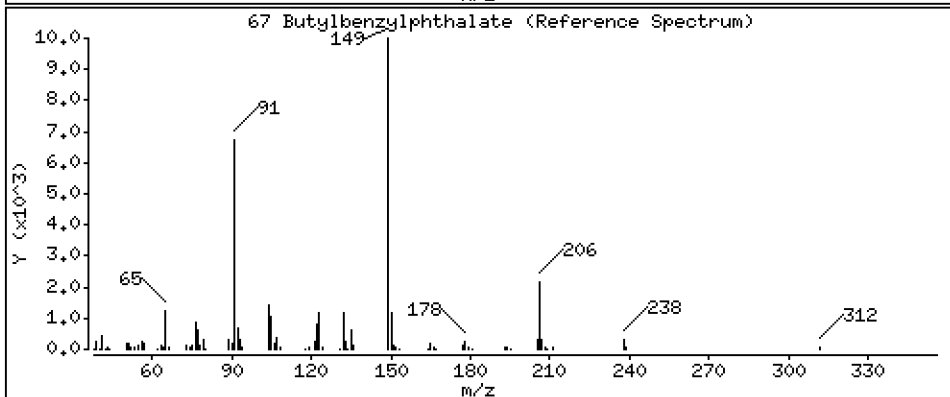
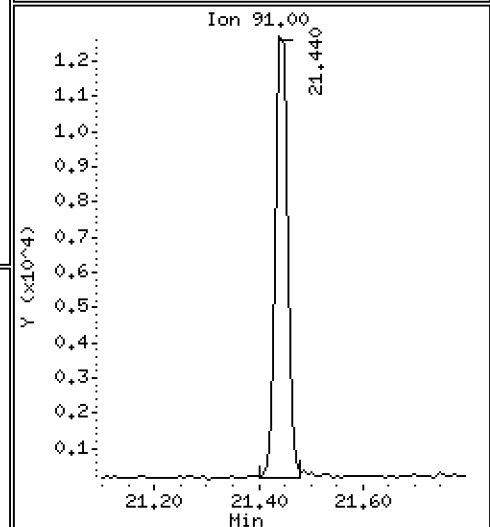
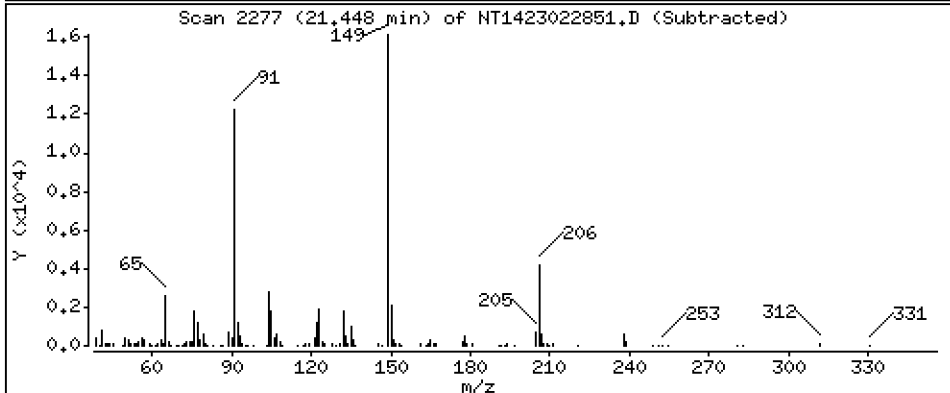
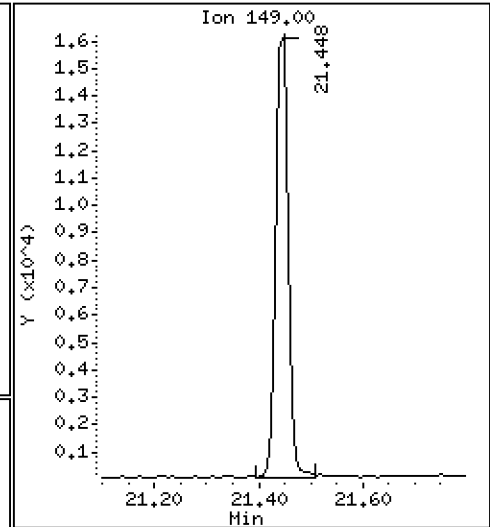
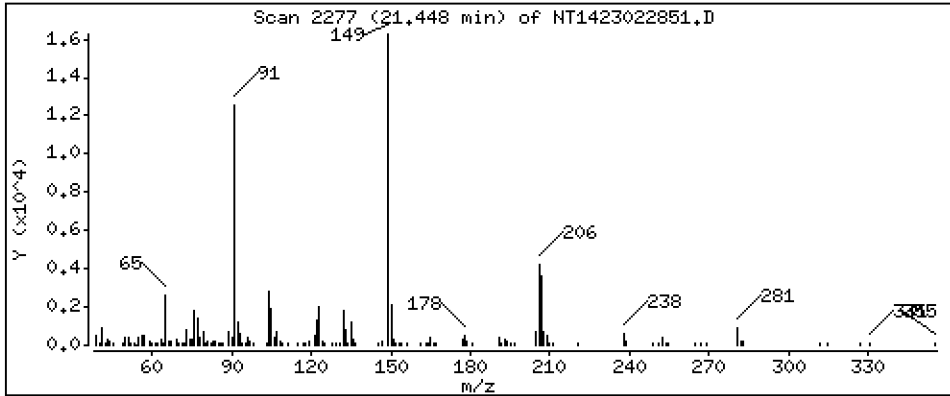
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,5157 ug/mL





Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

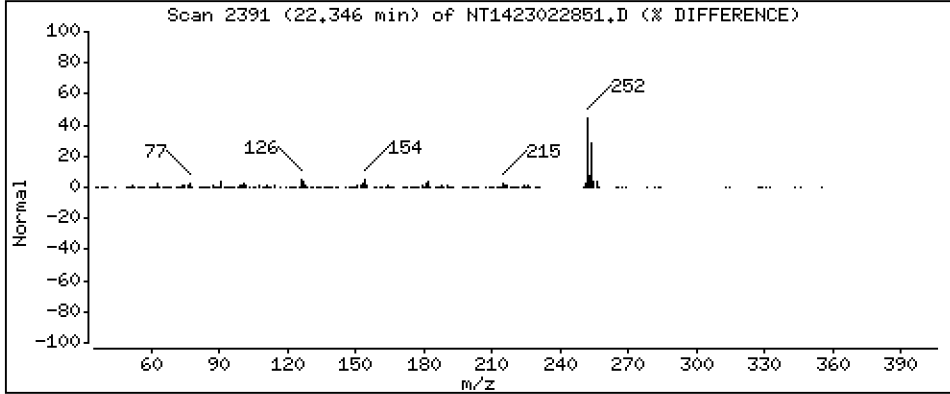
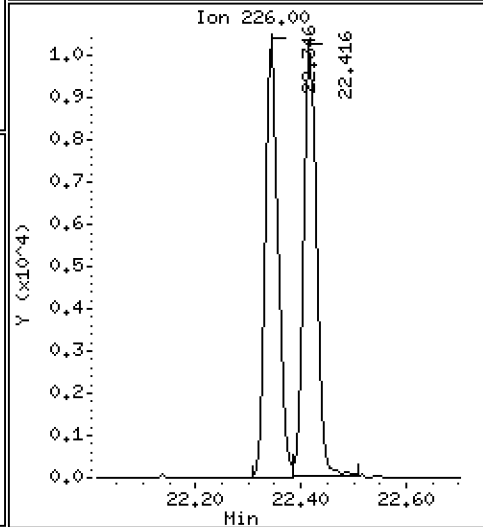
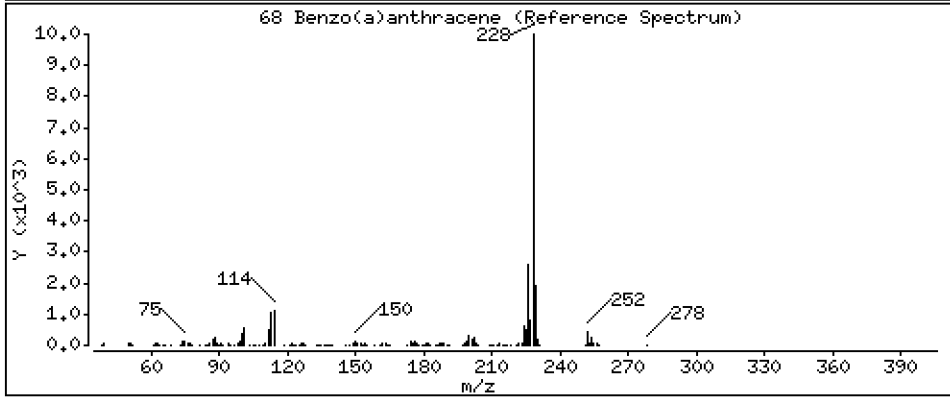
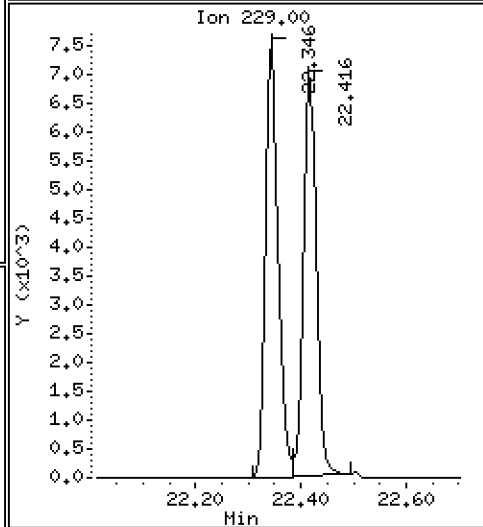
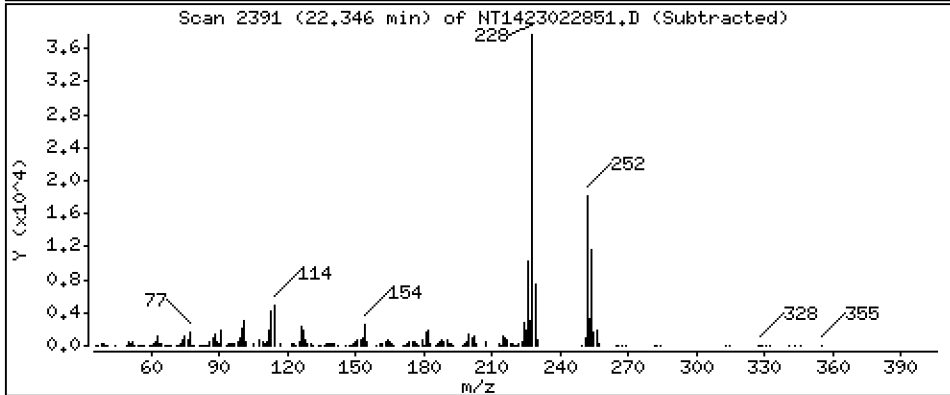
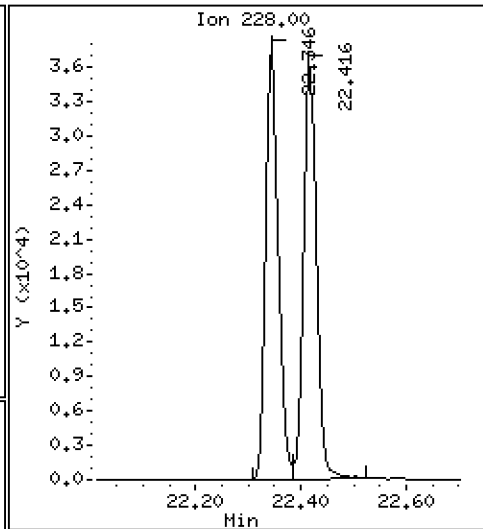
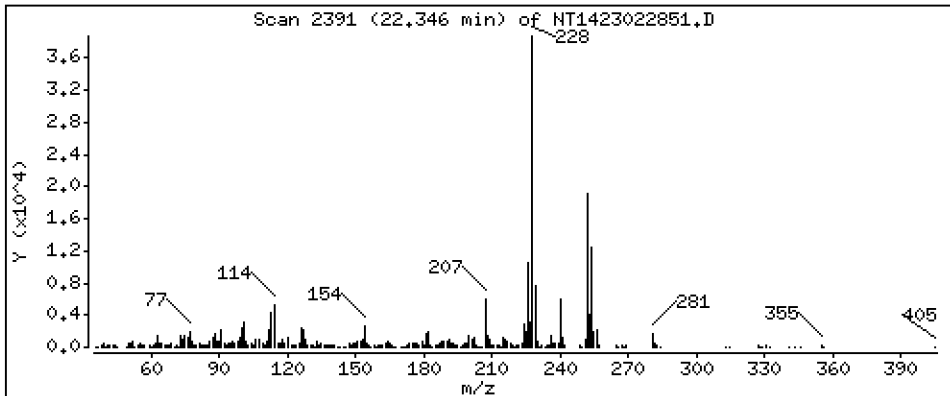
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,5494 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

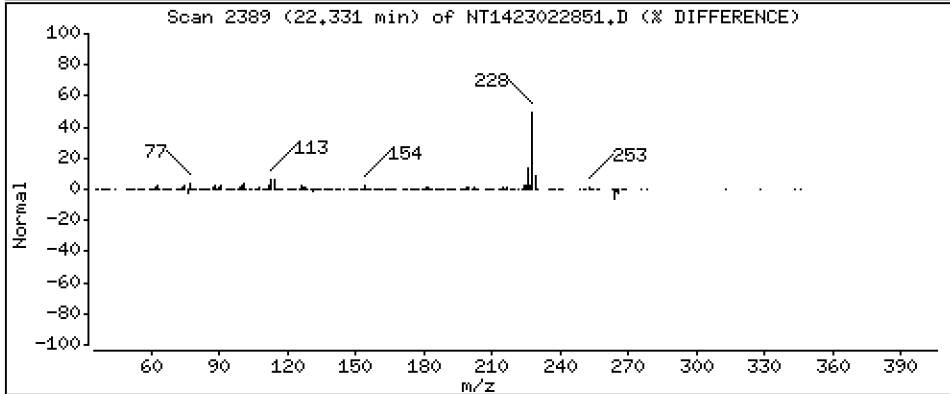
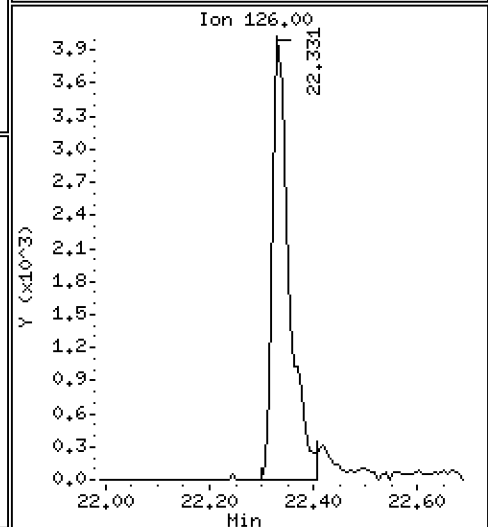
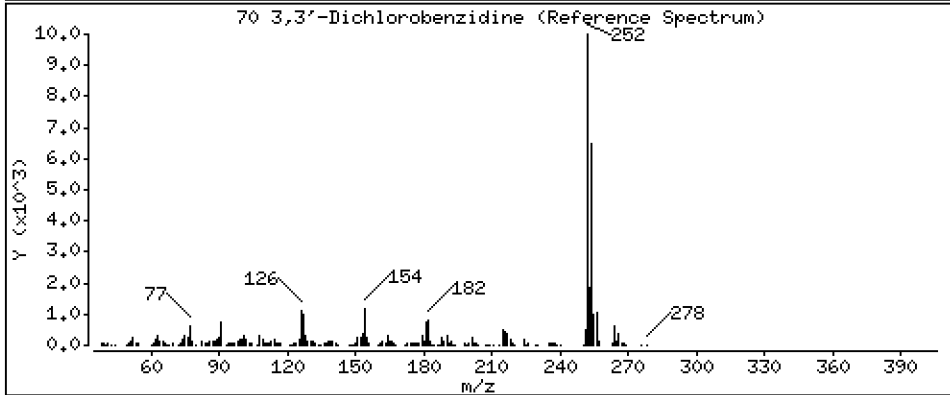
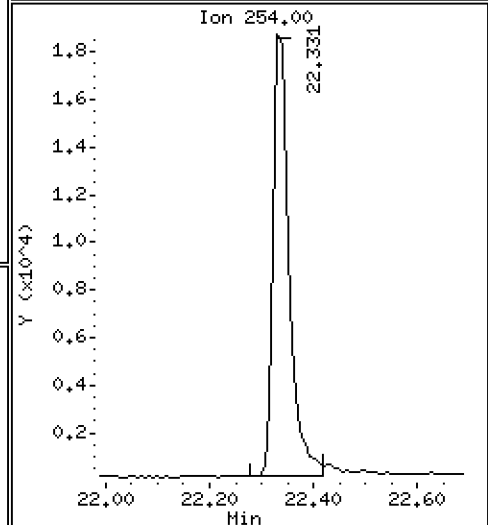
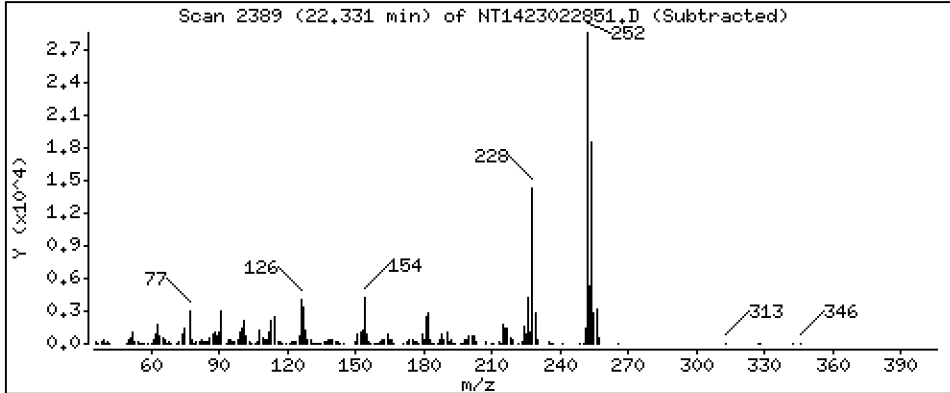
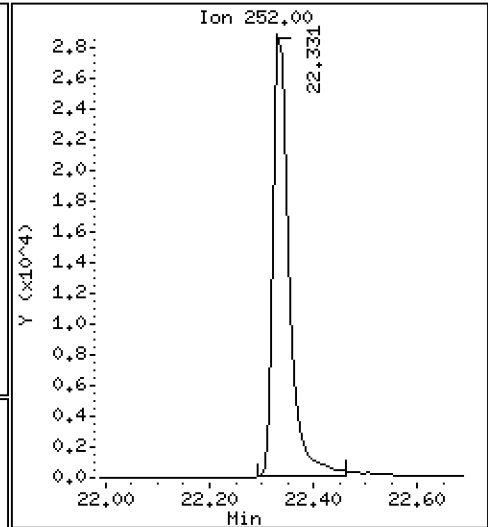
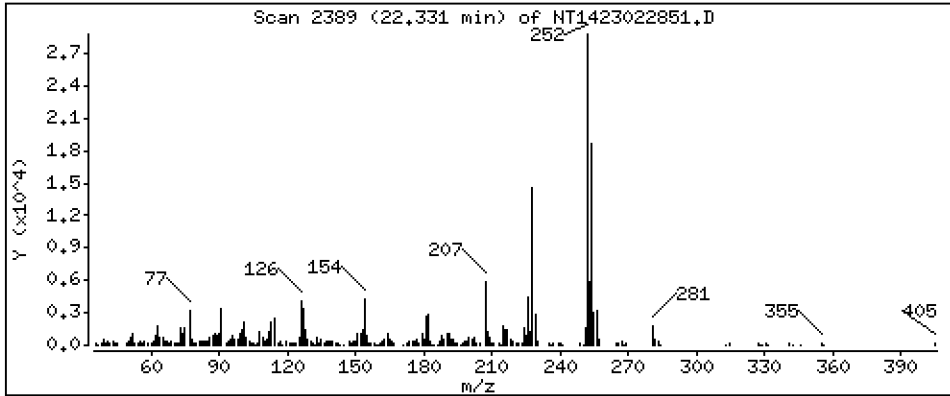
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 1,836 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

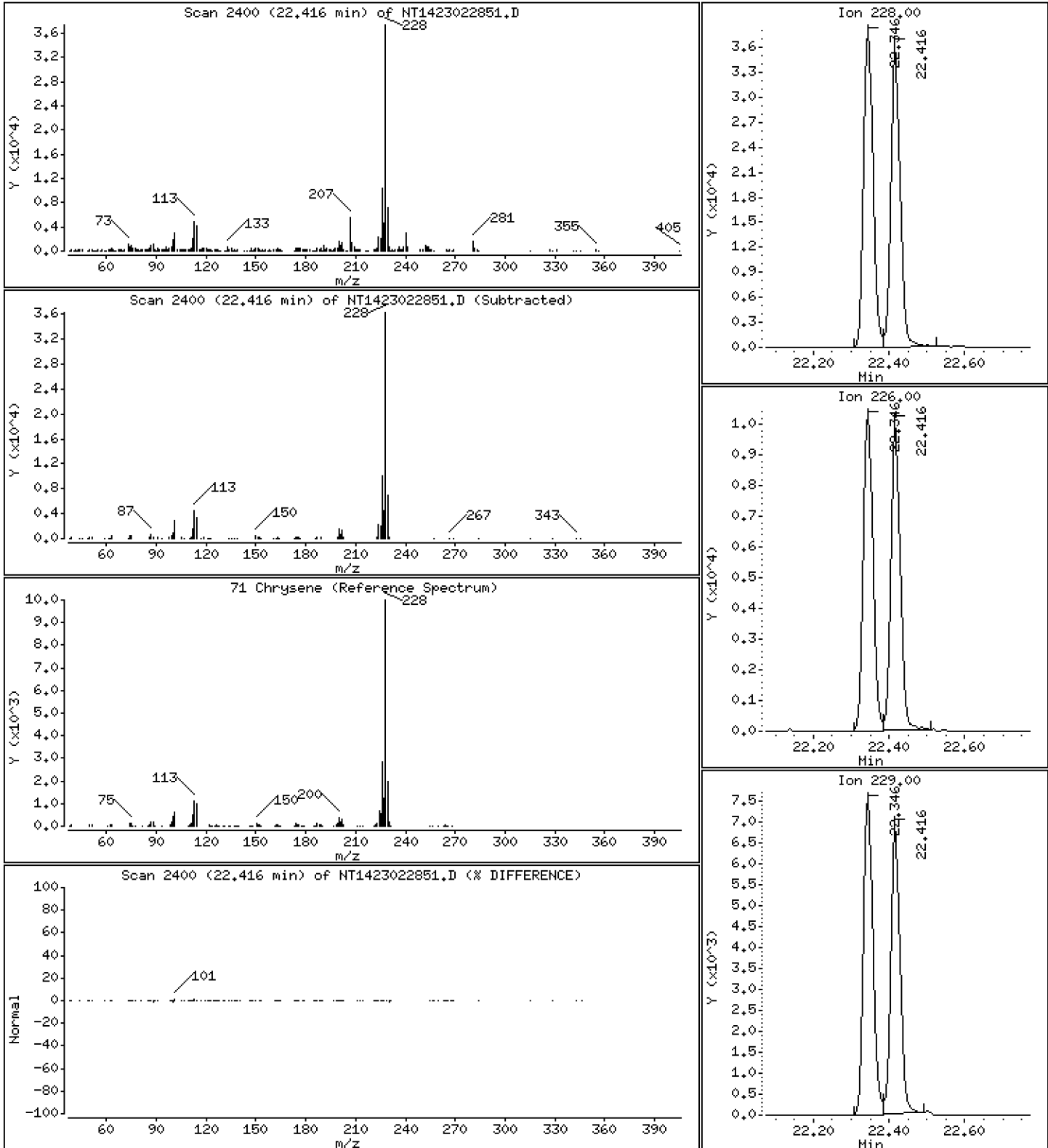
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,5382 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

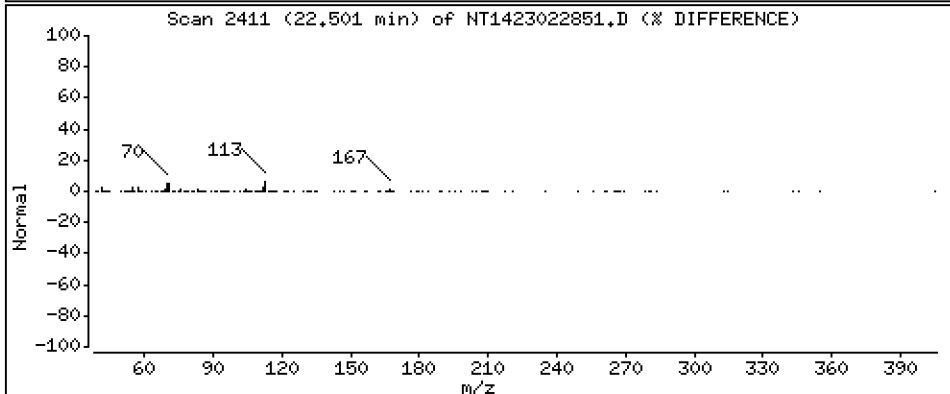
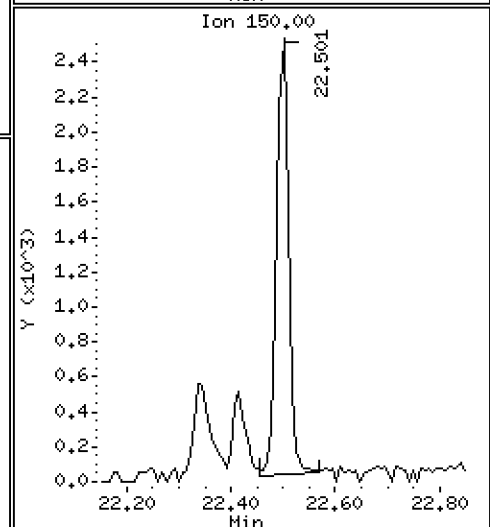
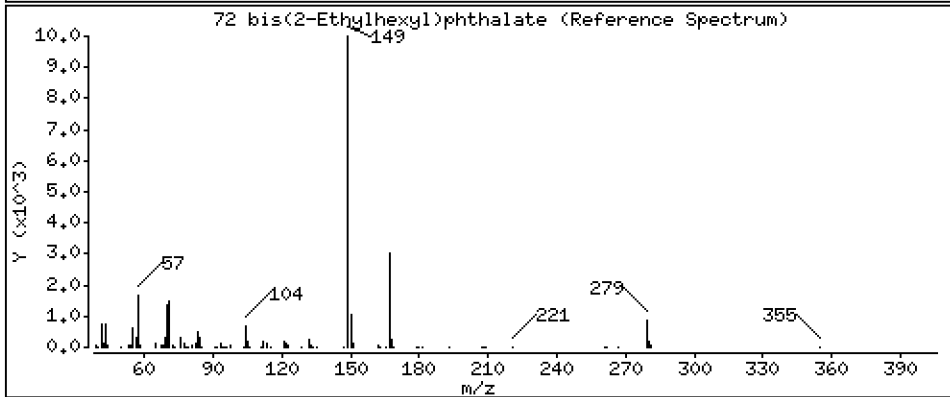
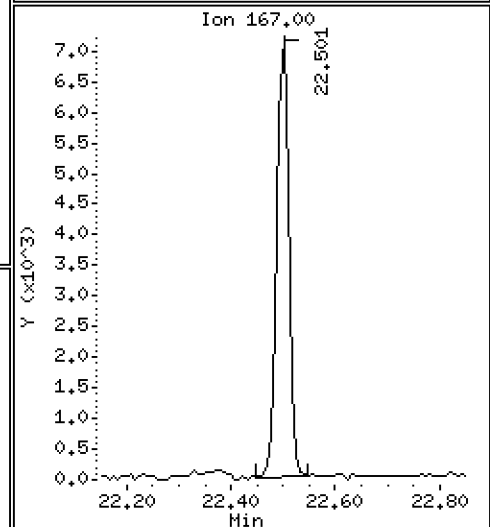
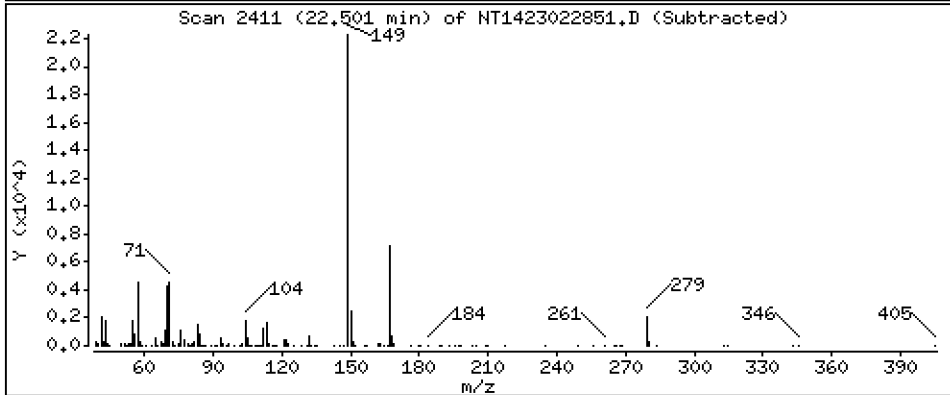
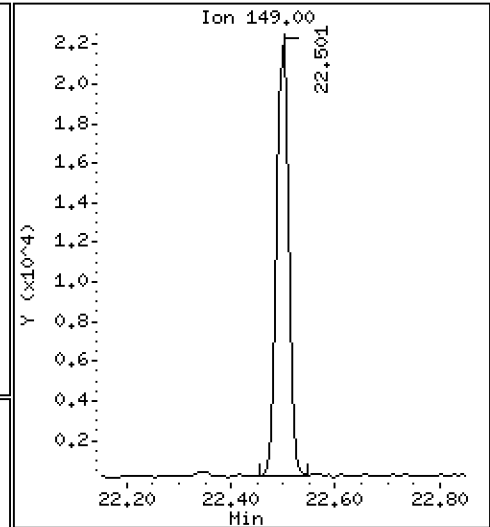
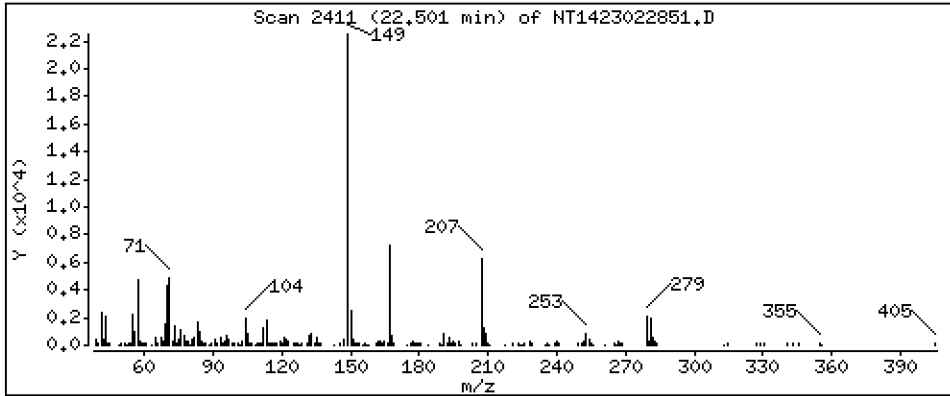
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,4540 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

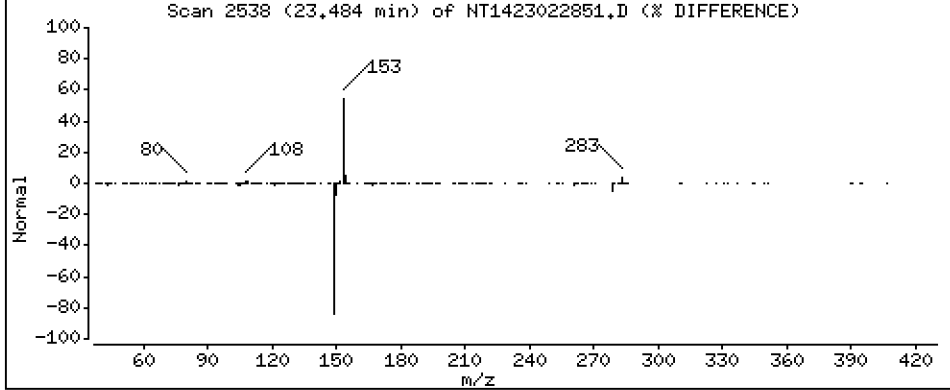
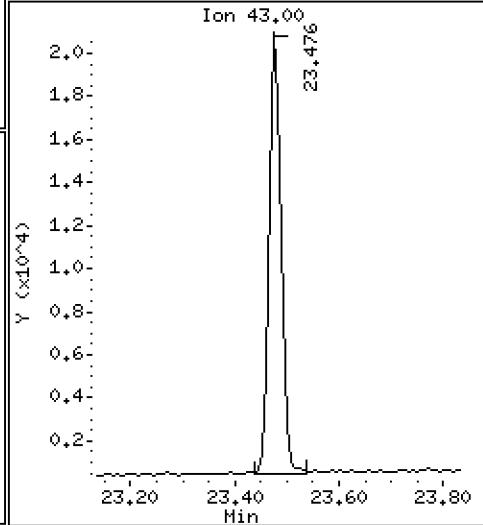
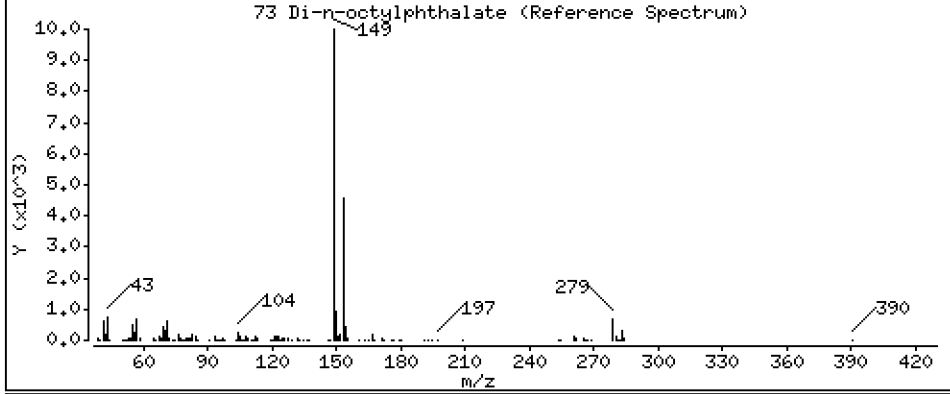
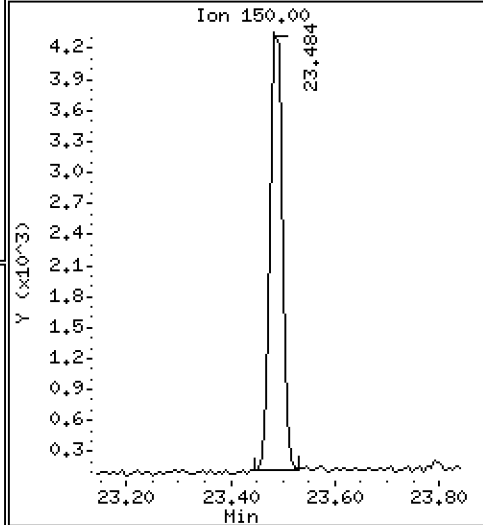
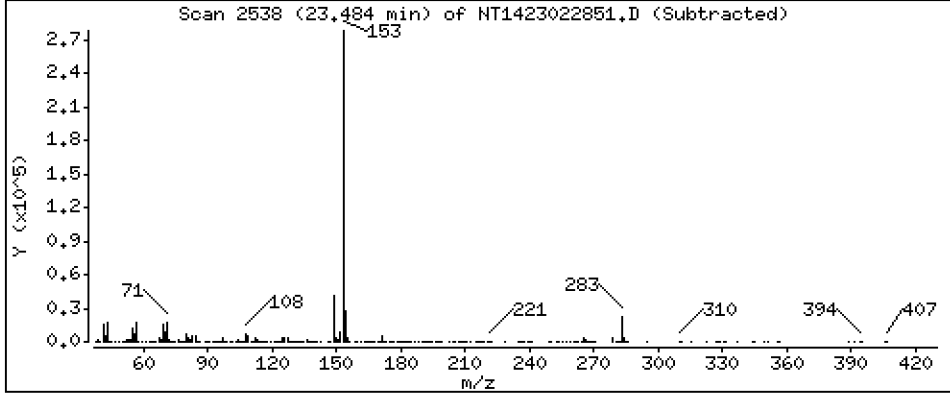
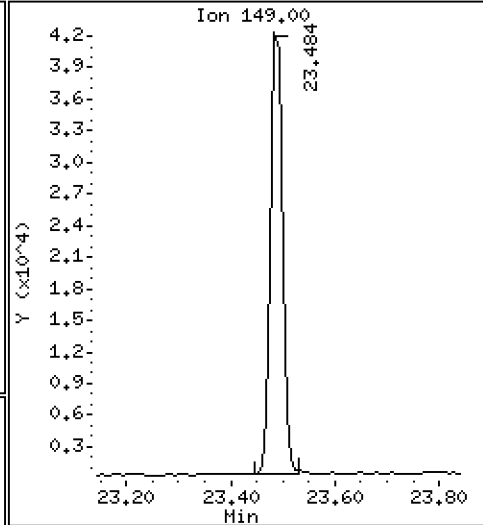
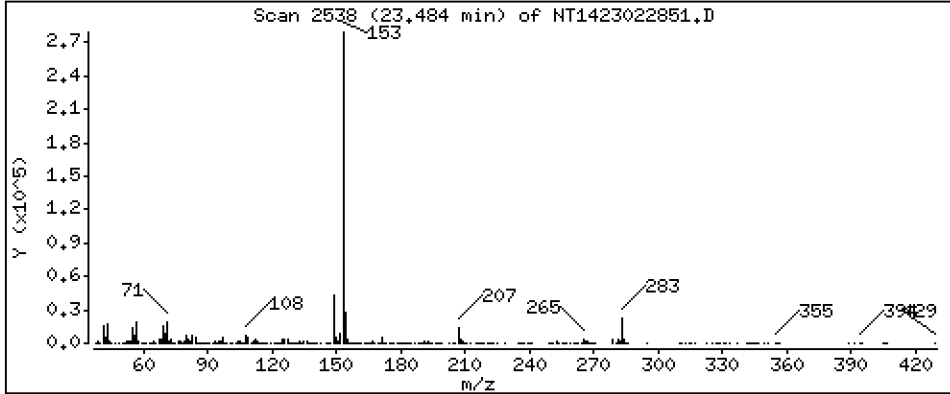
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,5007 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

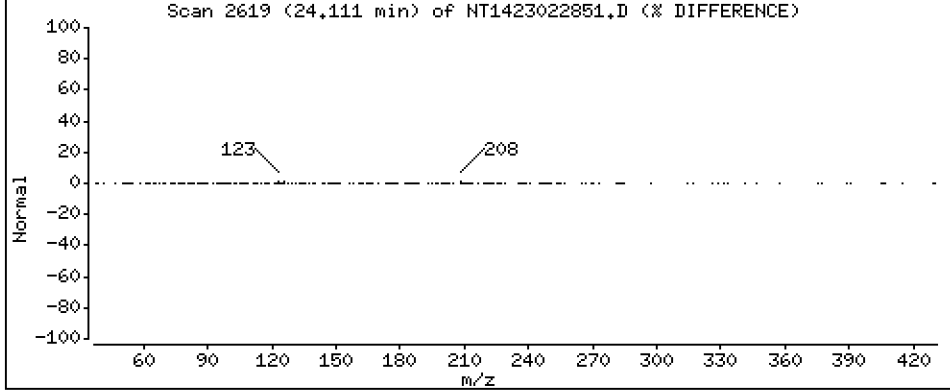
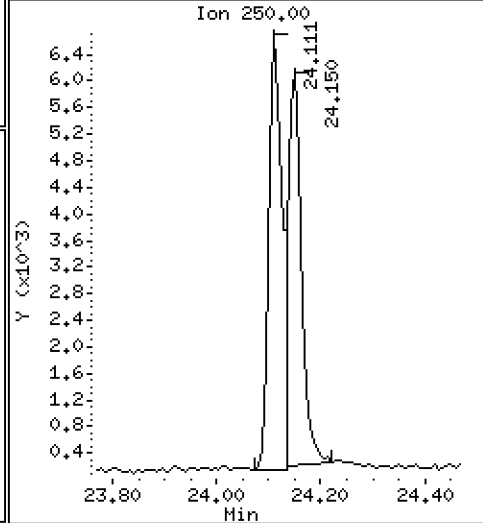
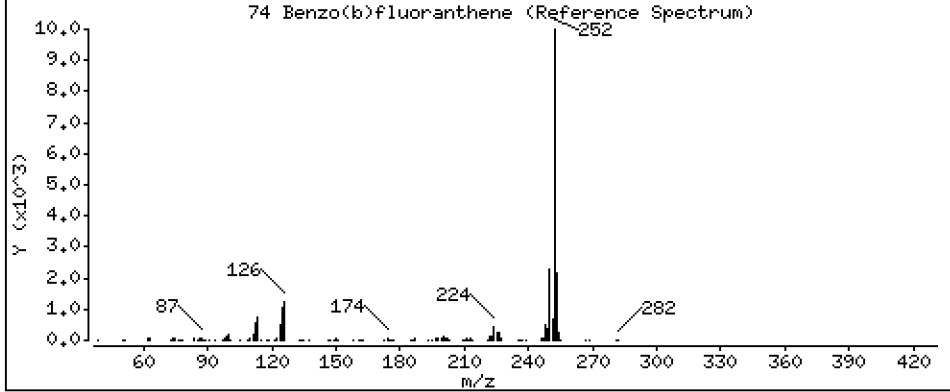
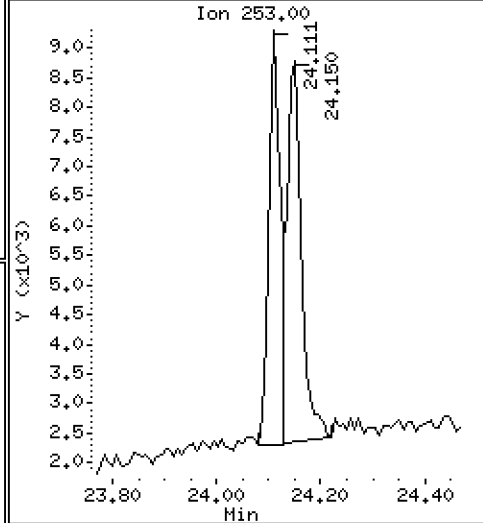
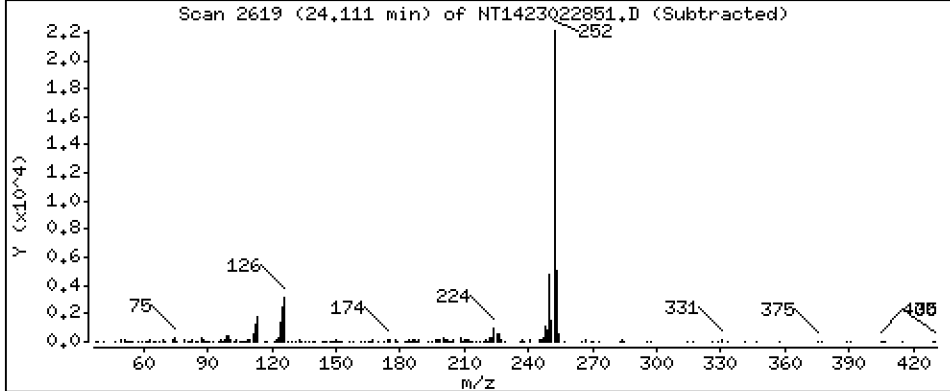
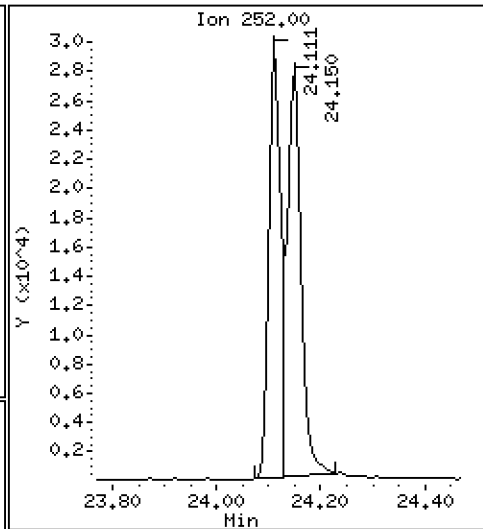
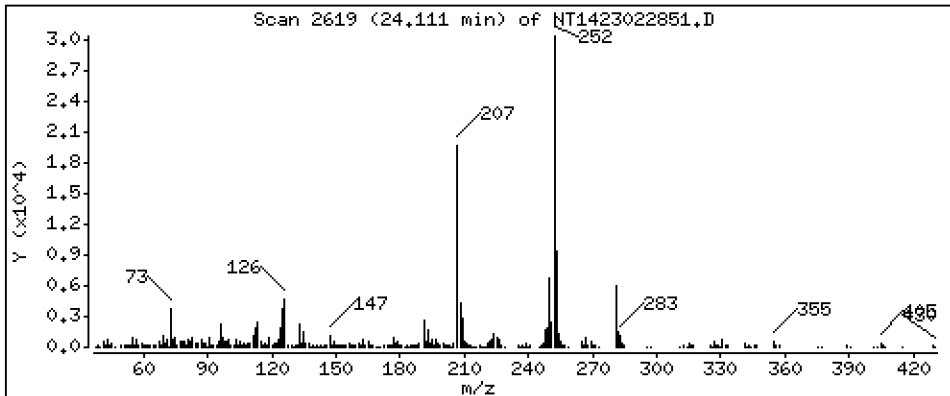
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,5764 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

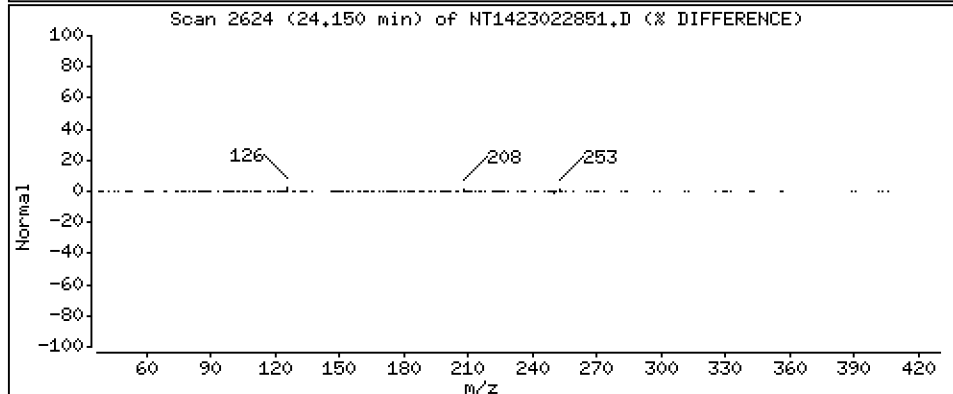
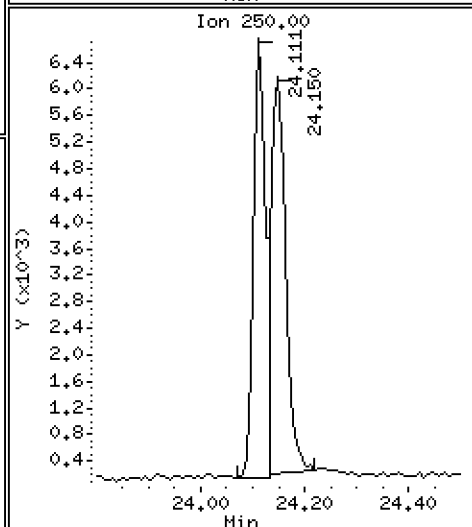
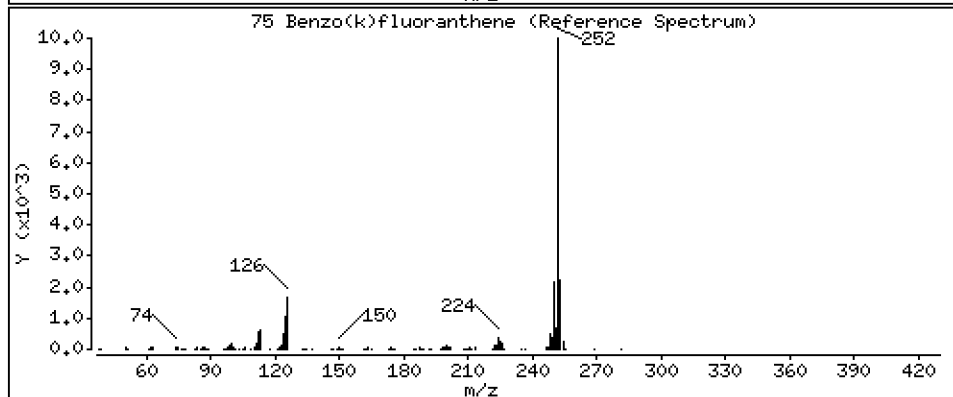
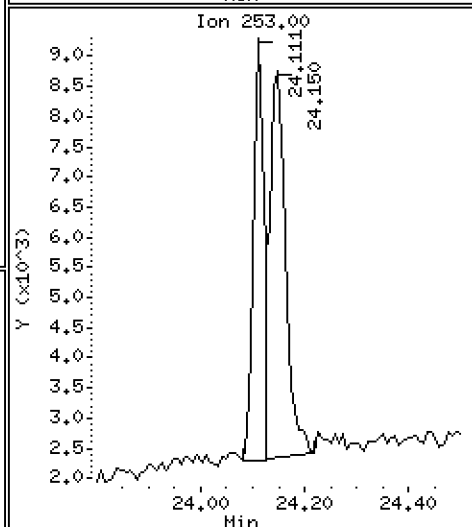
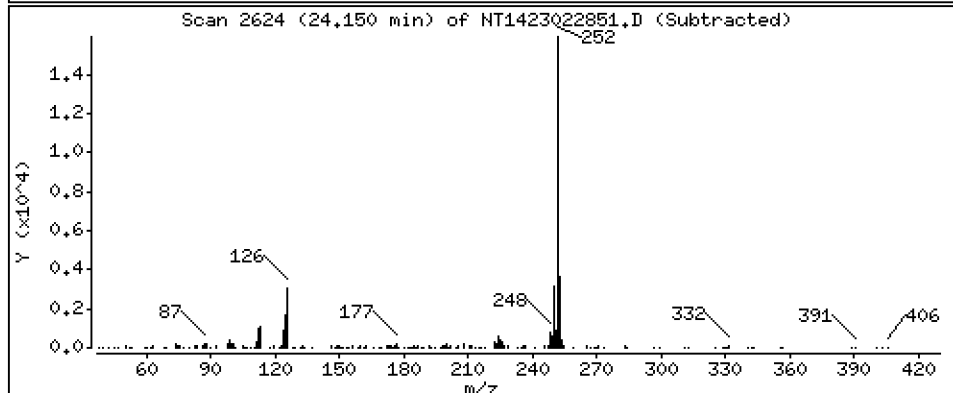
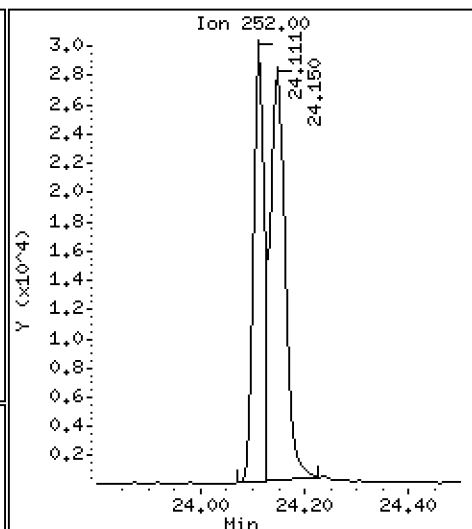
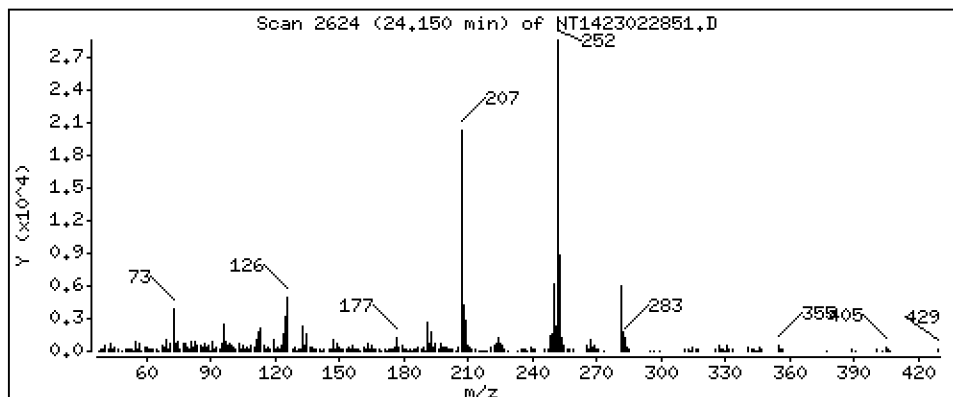
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,6743 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

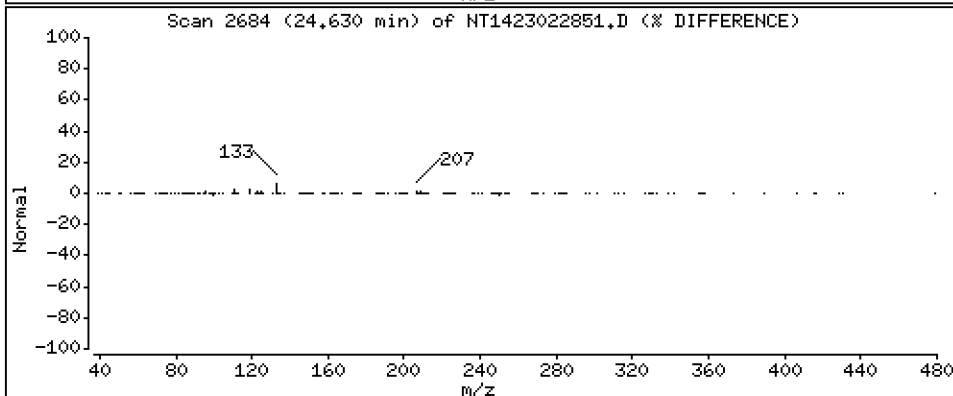
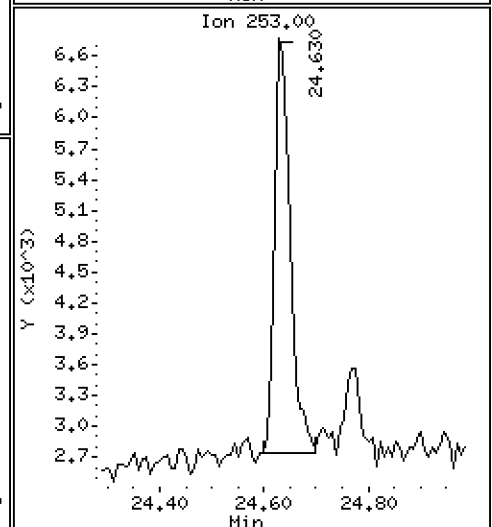
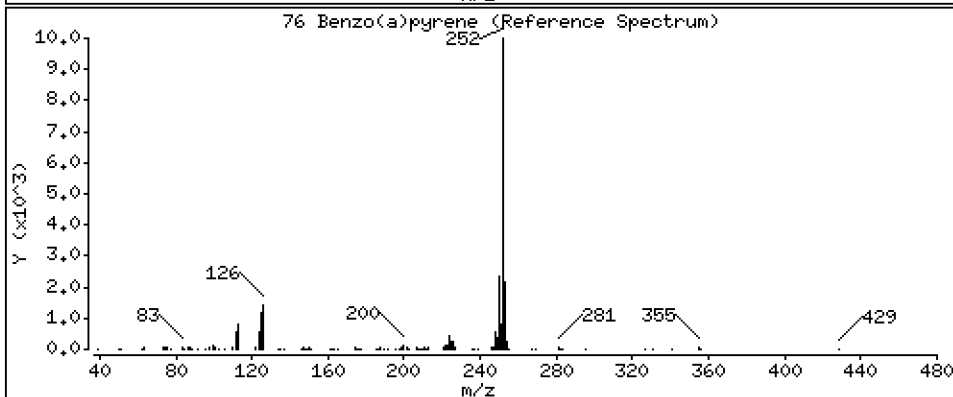
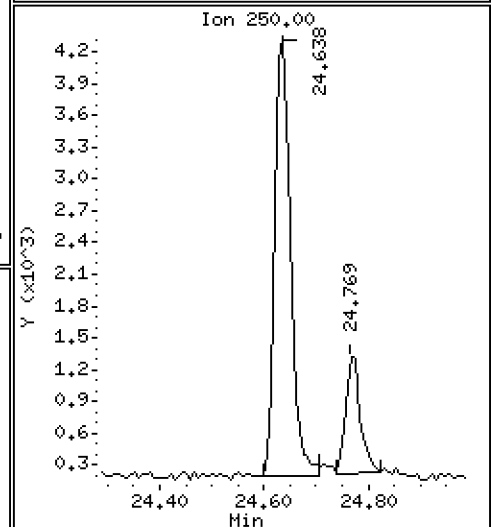
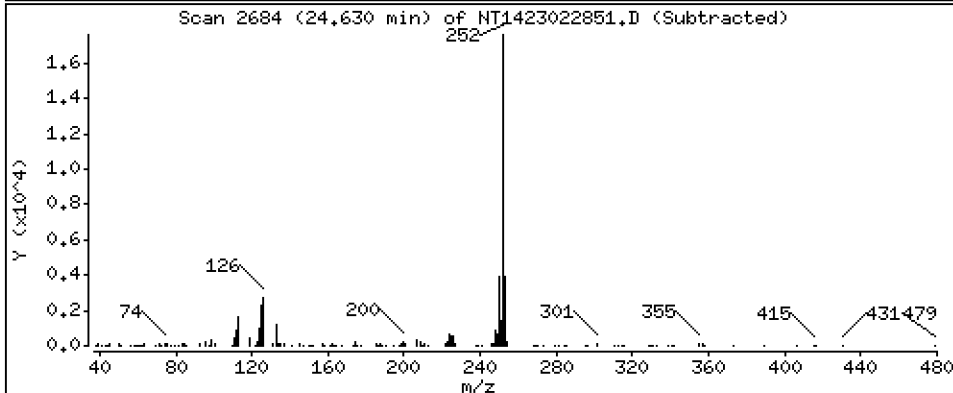
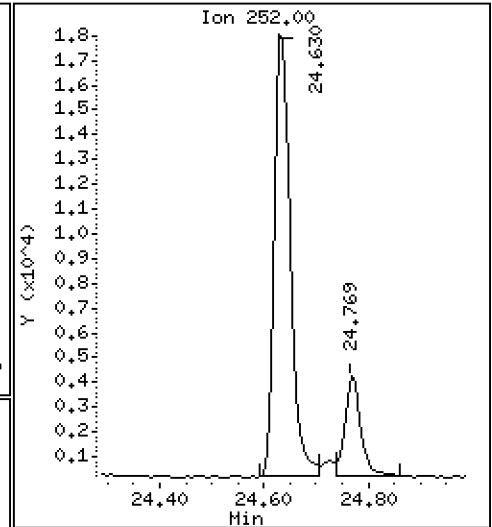
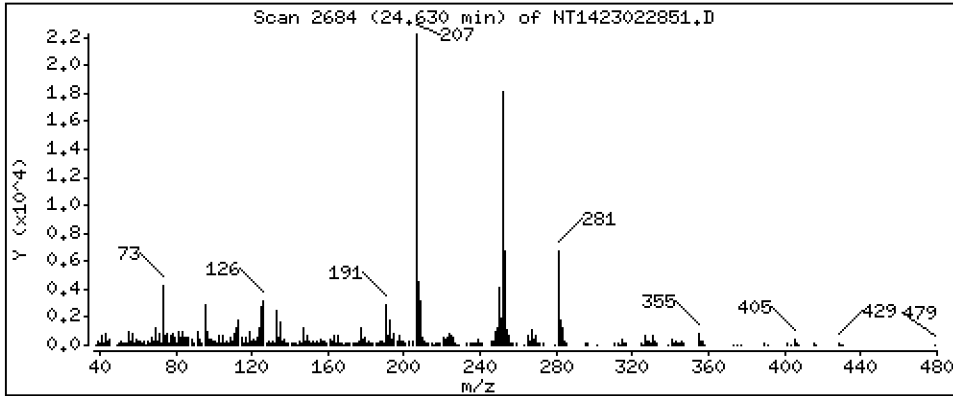
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,5413 ug/mL





Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

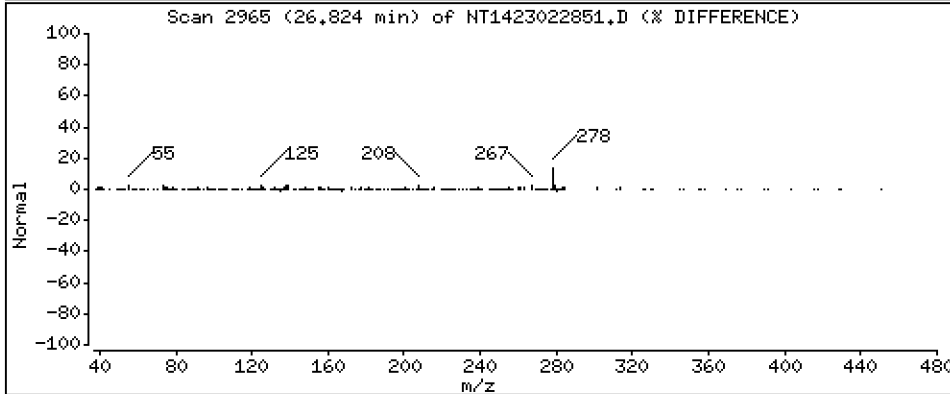
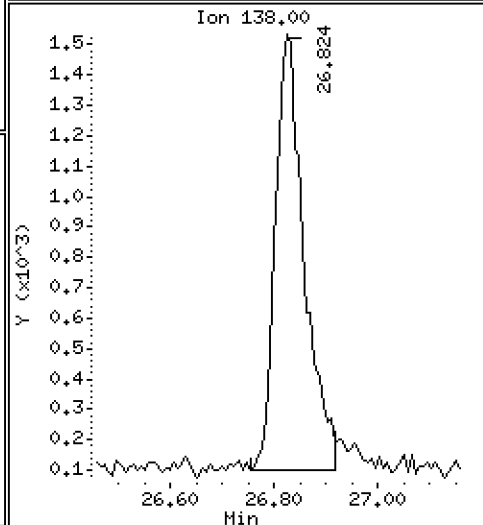
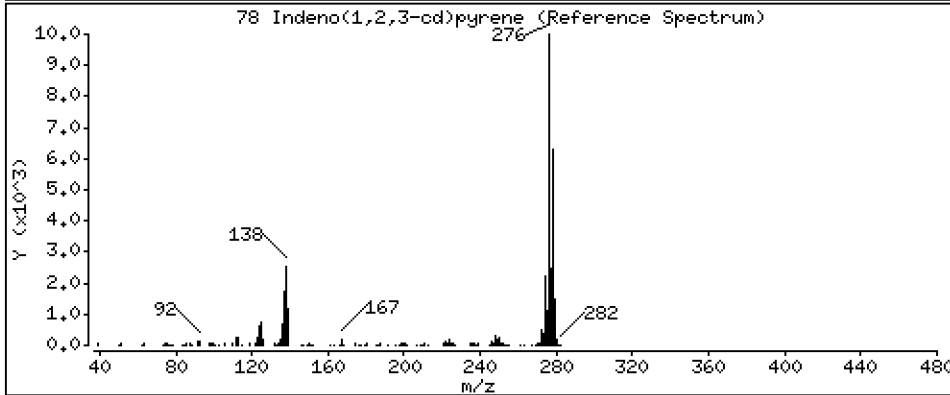
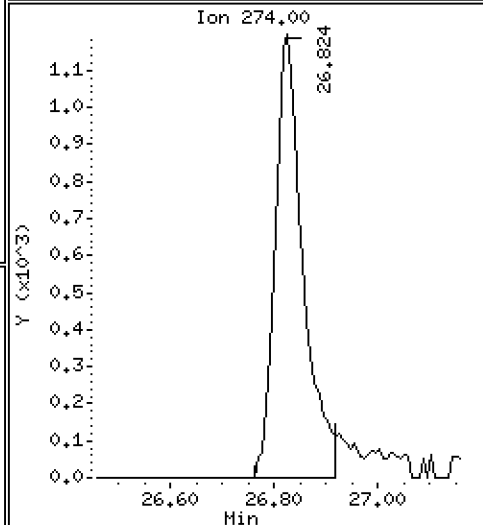
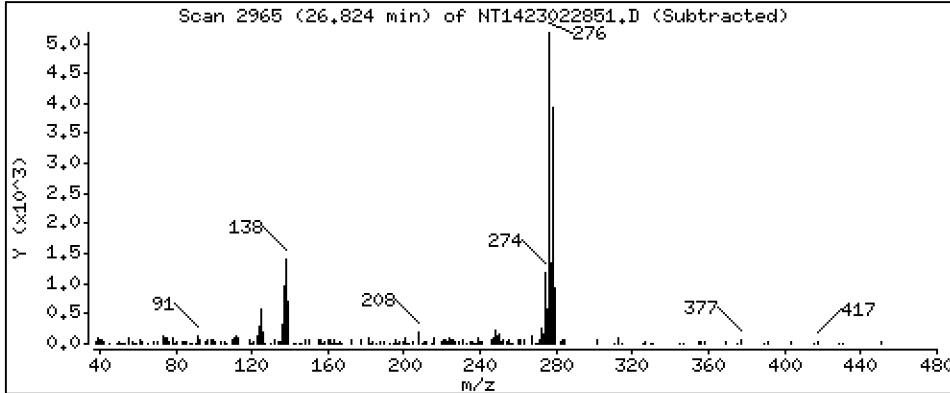
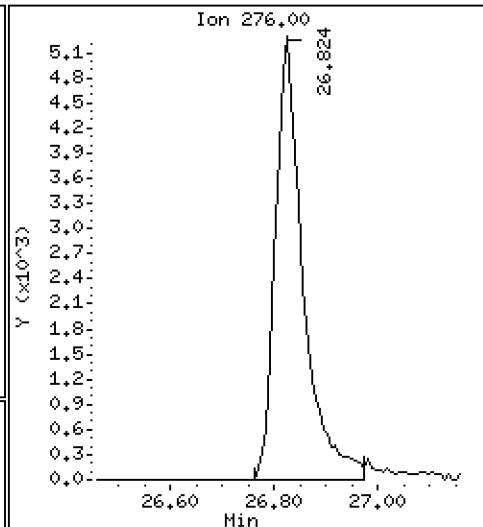
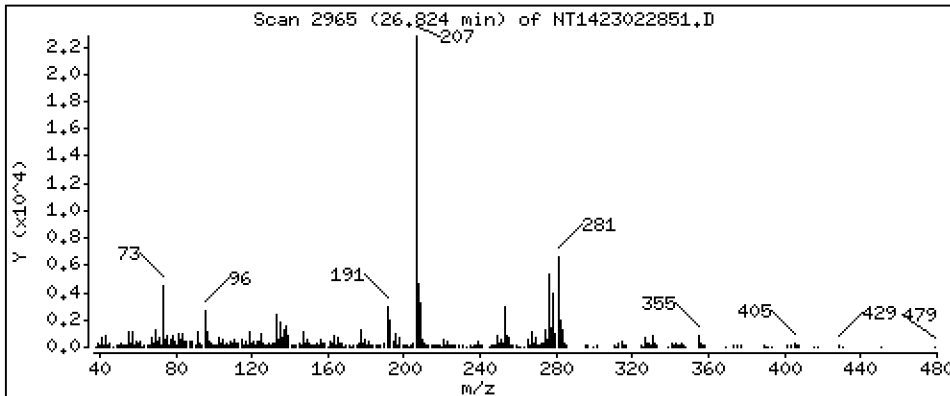
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,2283 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

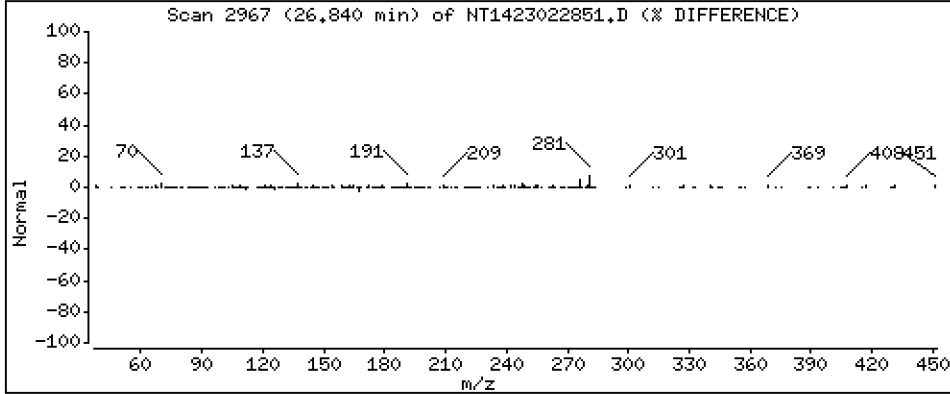
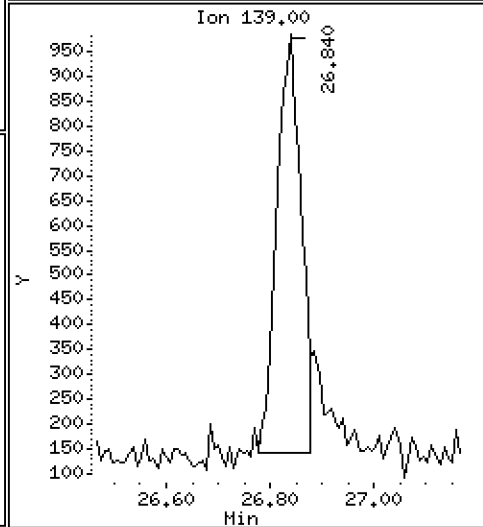
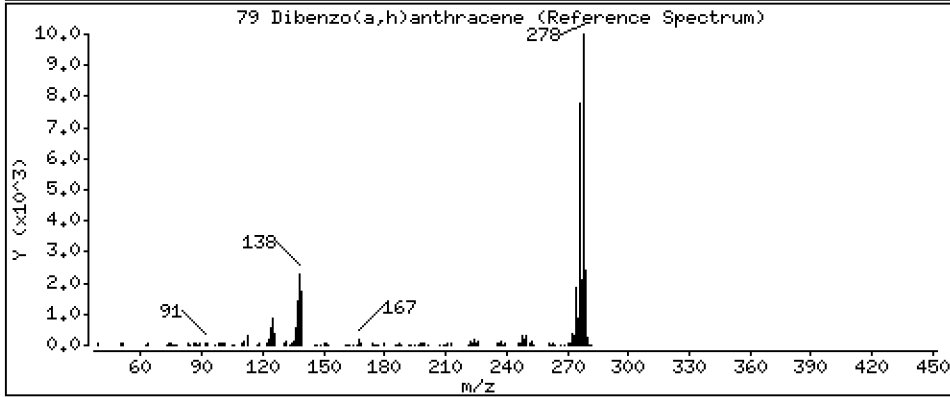
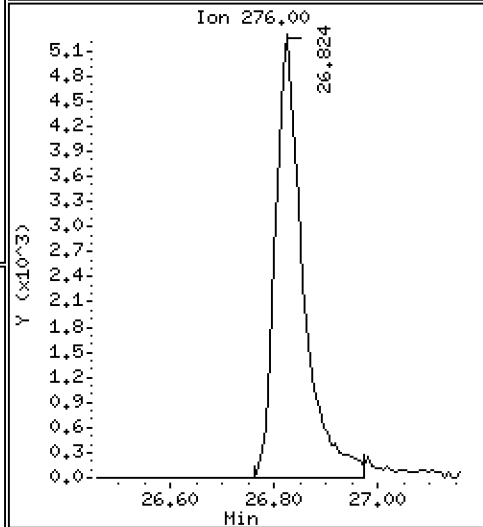
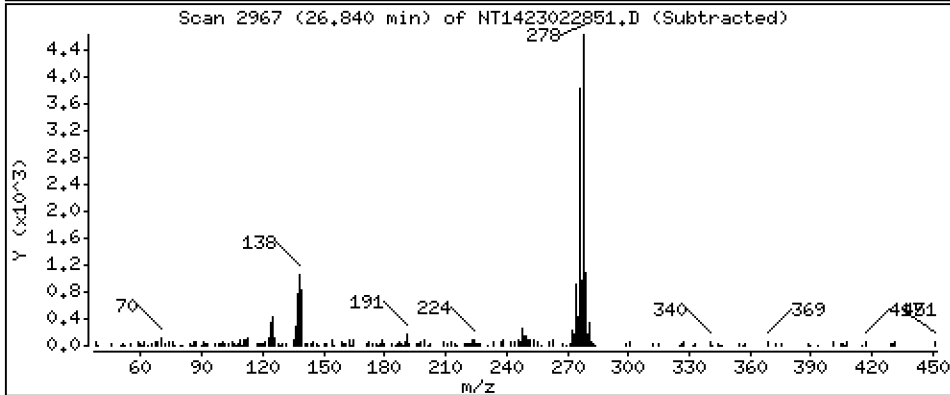
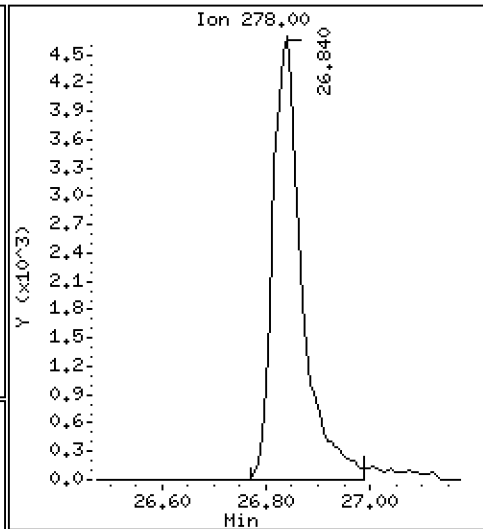
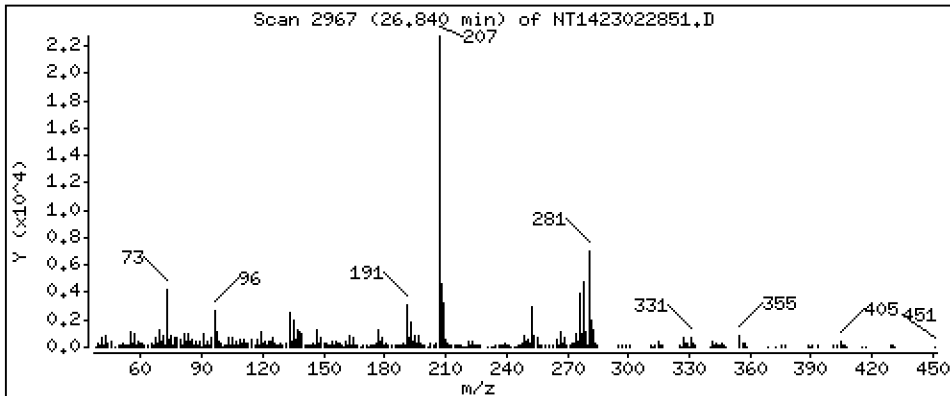
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2501 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

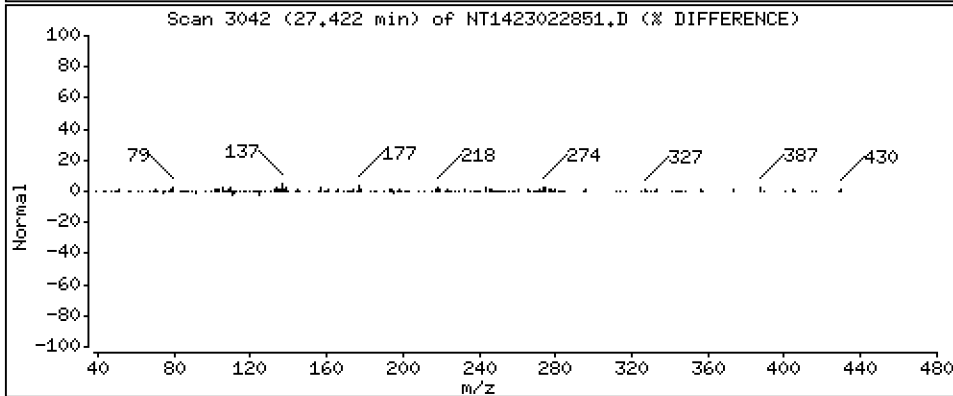
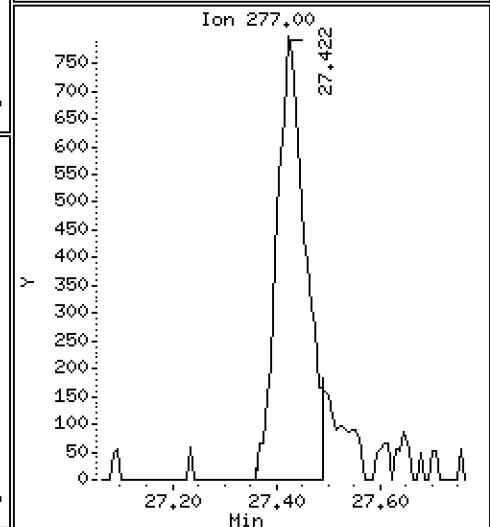
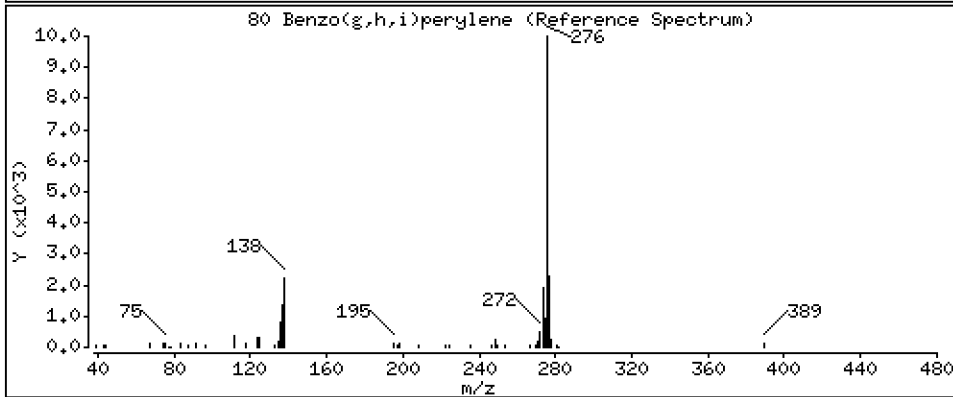
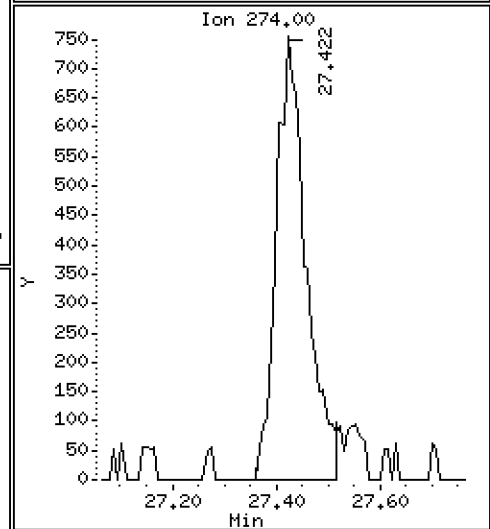
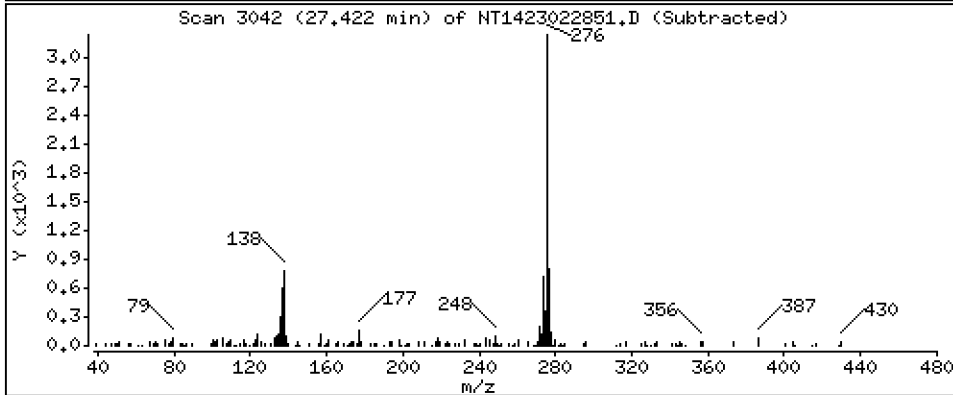
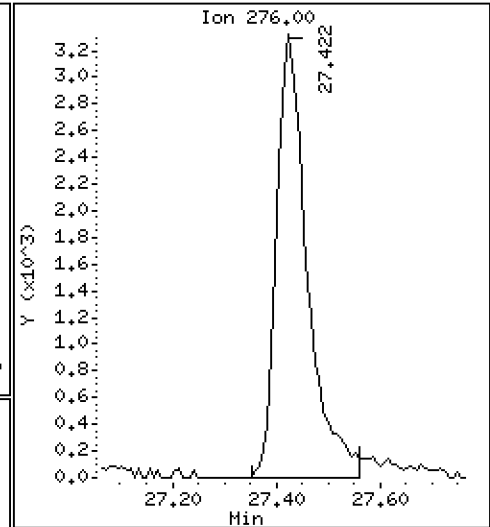
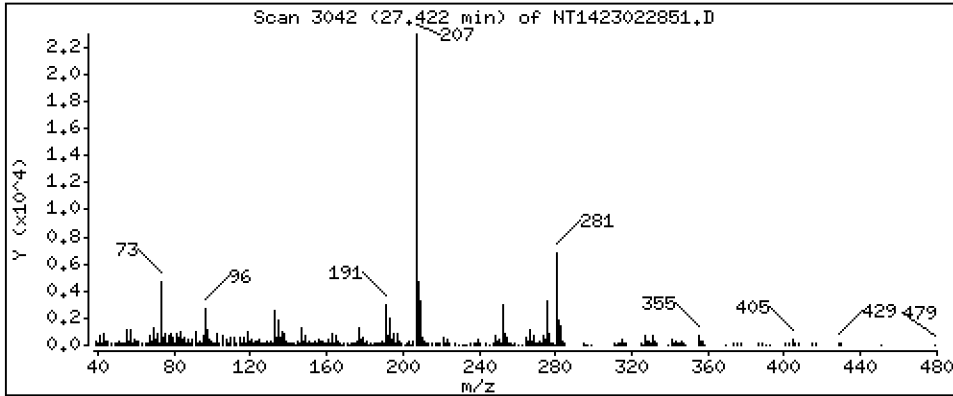
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,1825 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

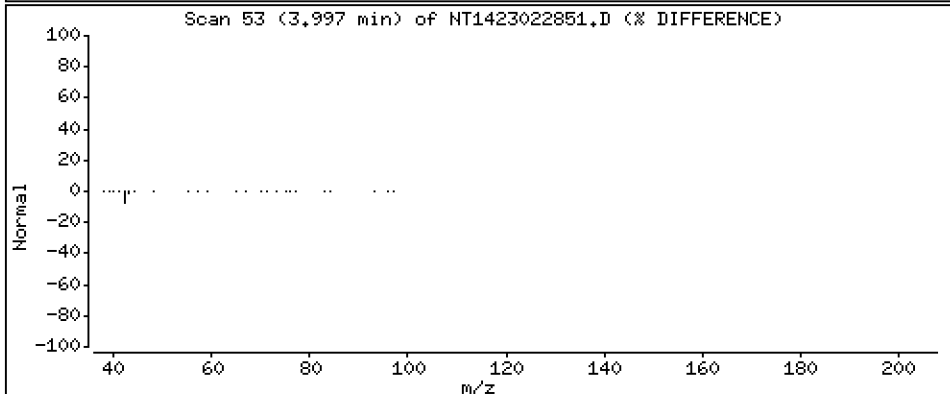
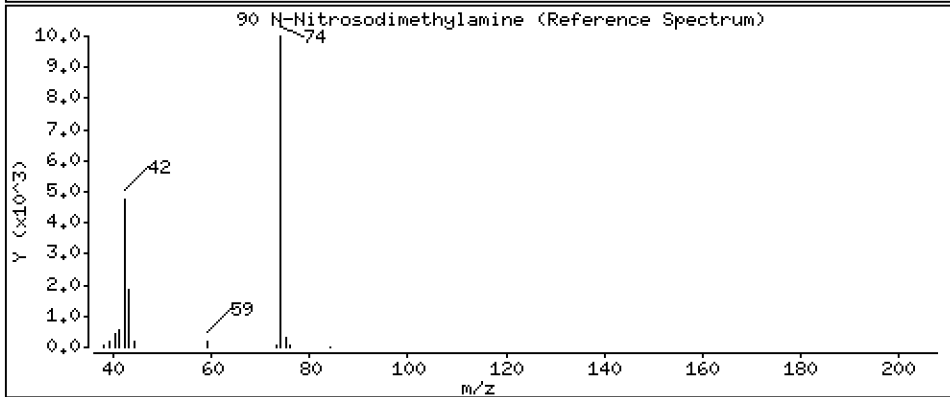
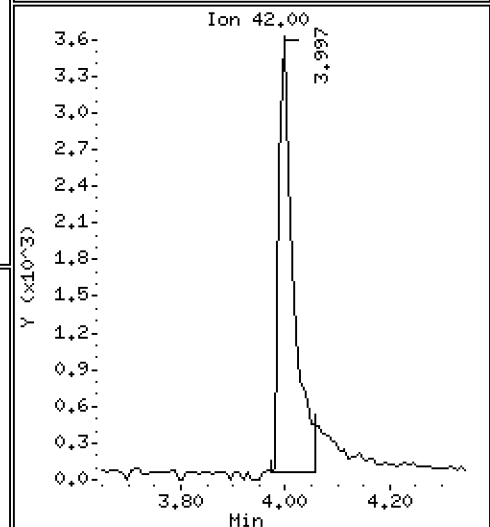
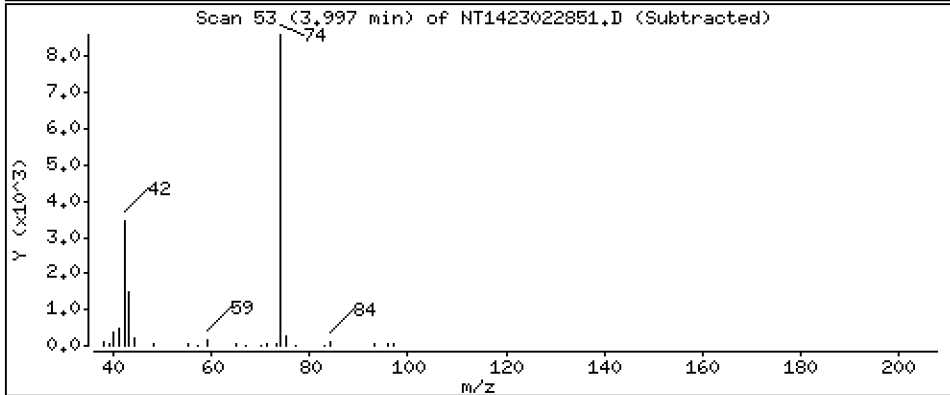
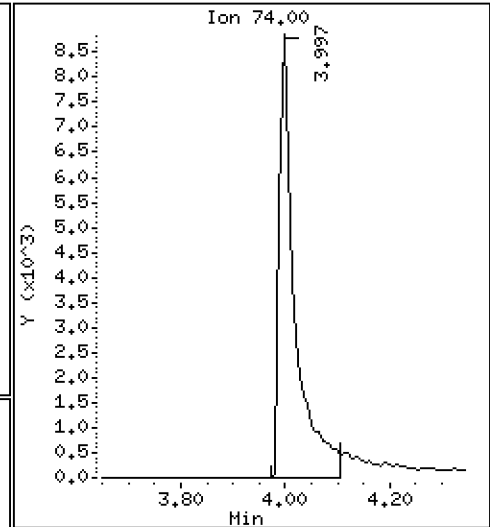
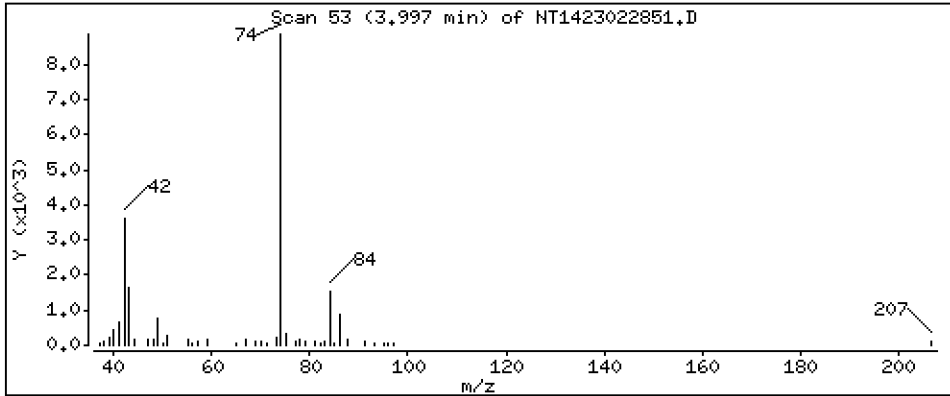
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,7828 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

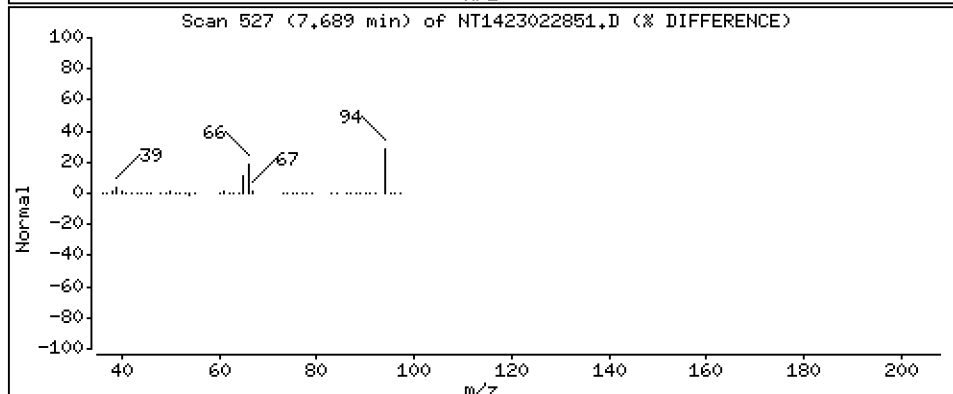
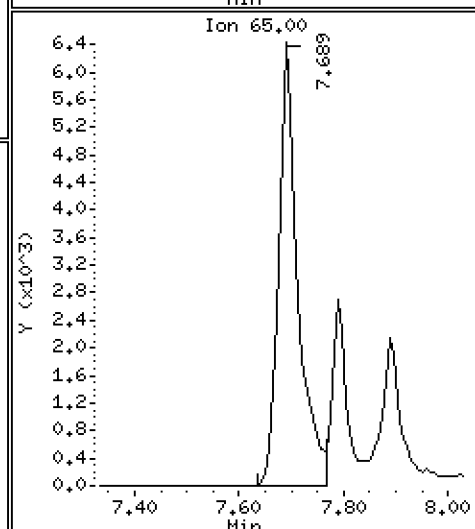
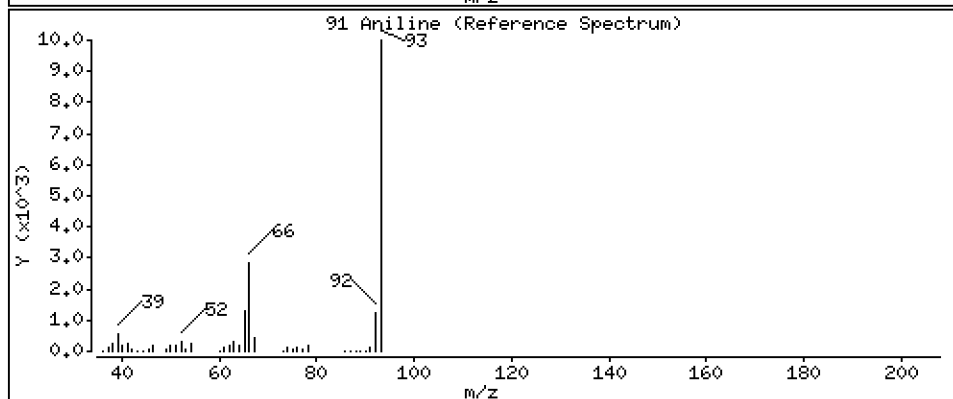
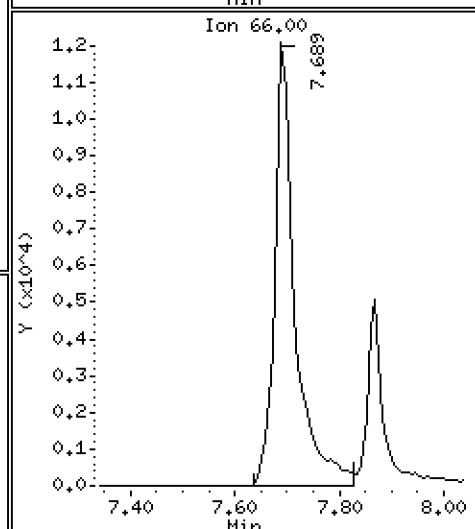
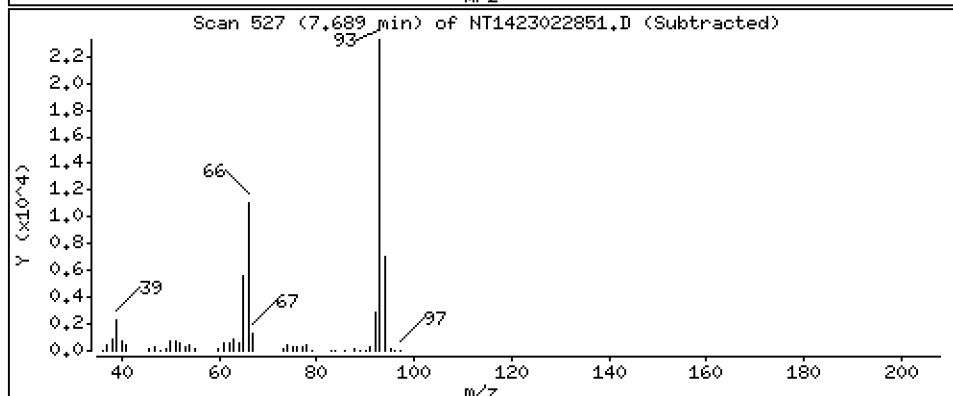
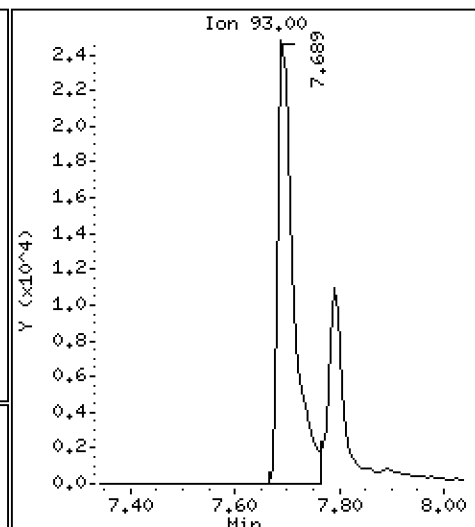
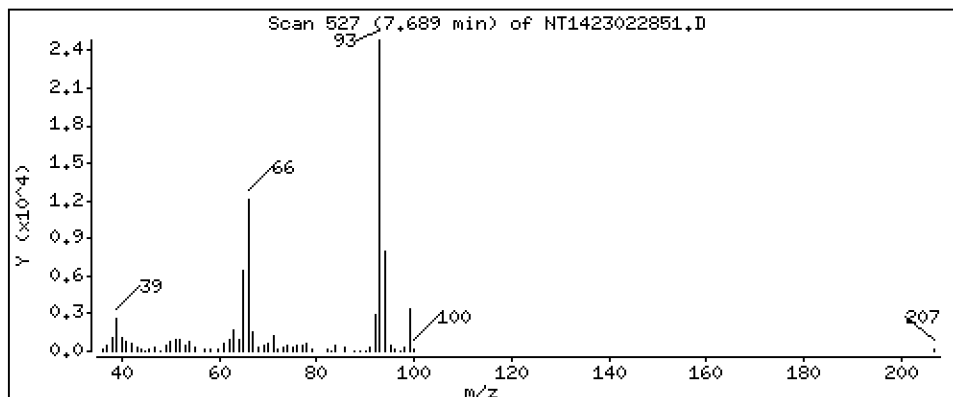
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.9602 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

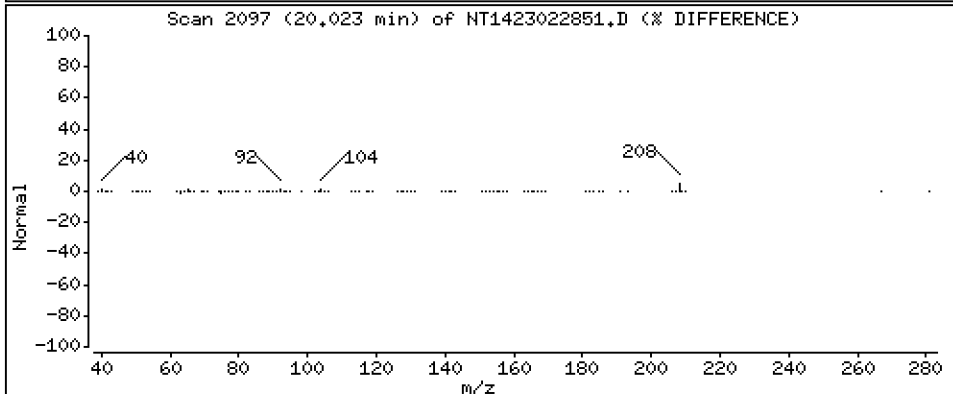
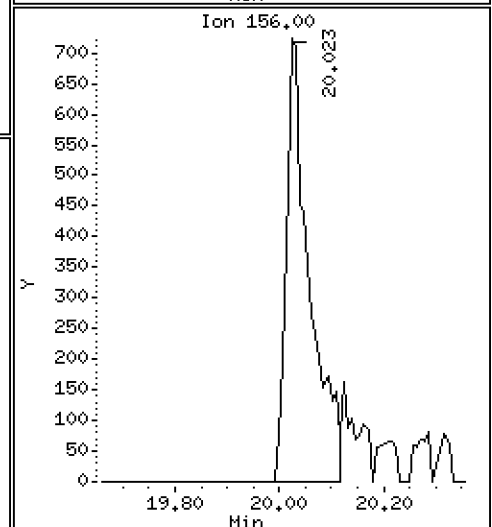
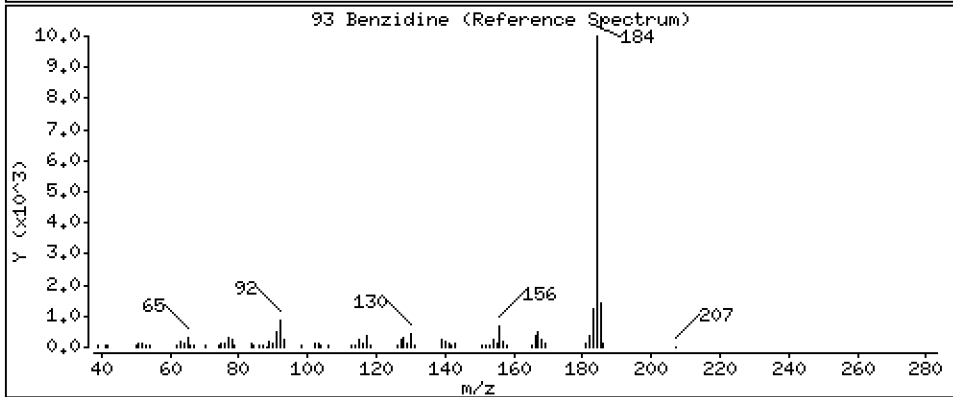
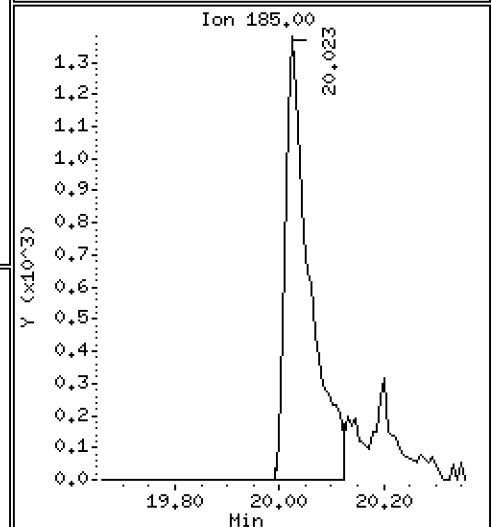
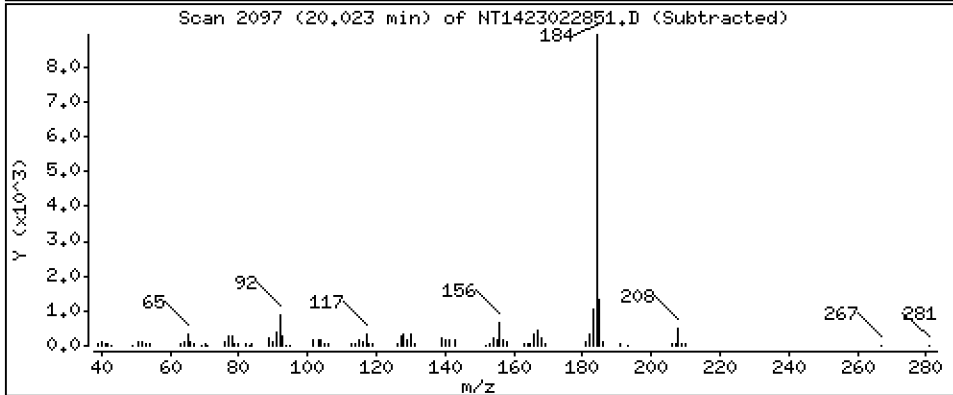
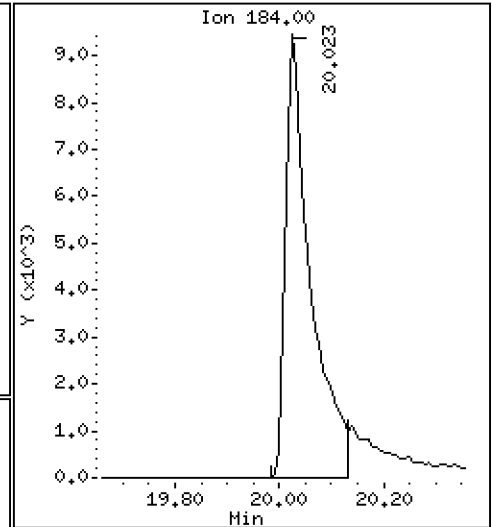
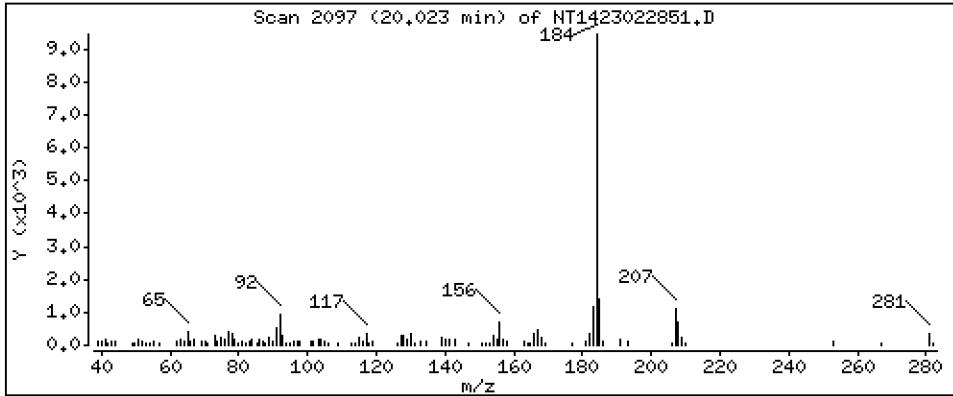
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

93 Benzidine

Concentration: 0.5720 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

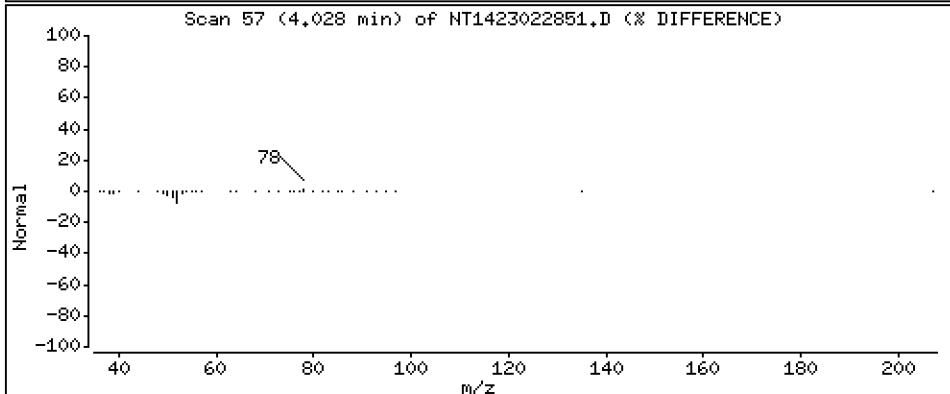
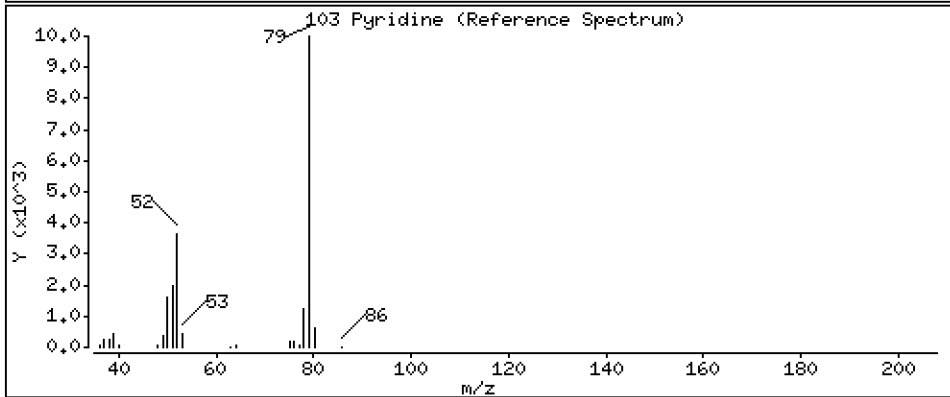
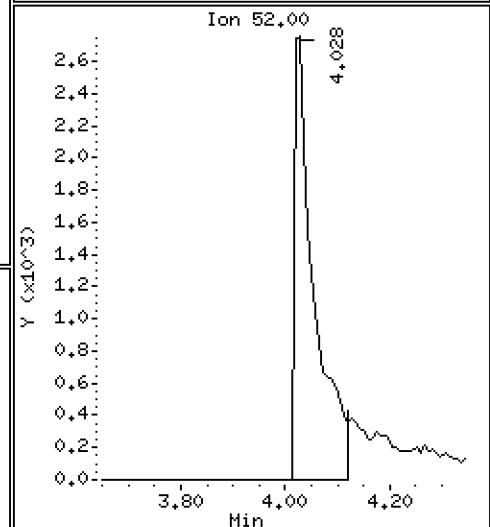
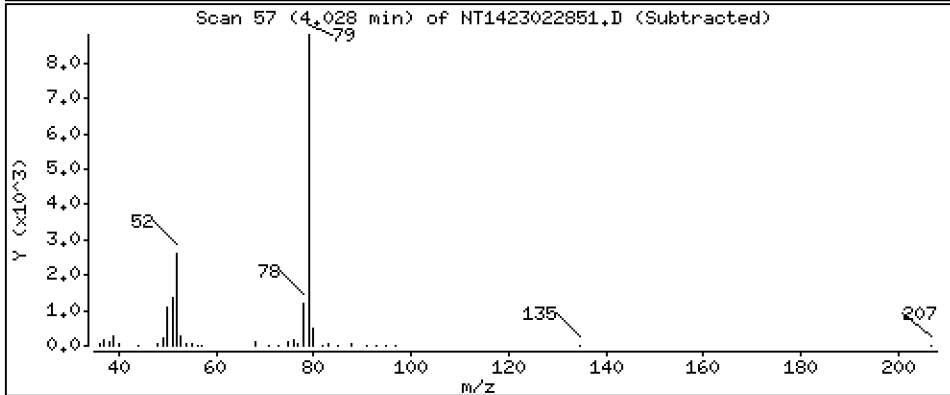
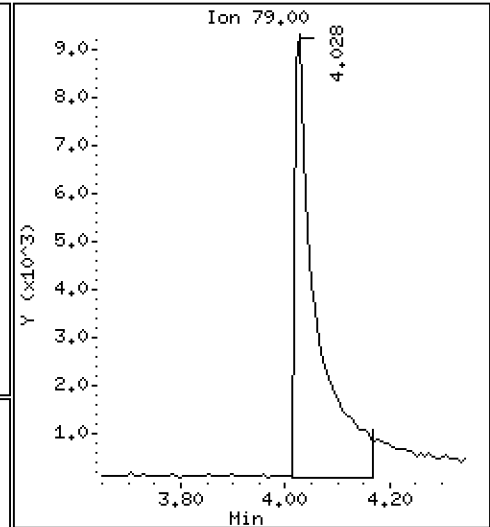
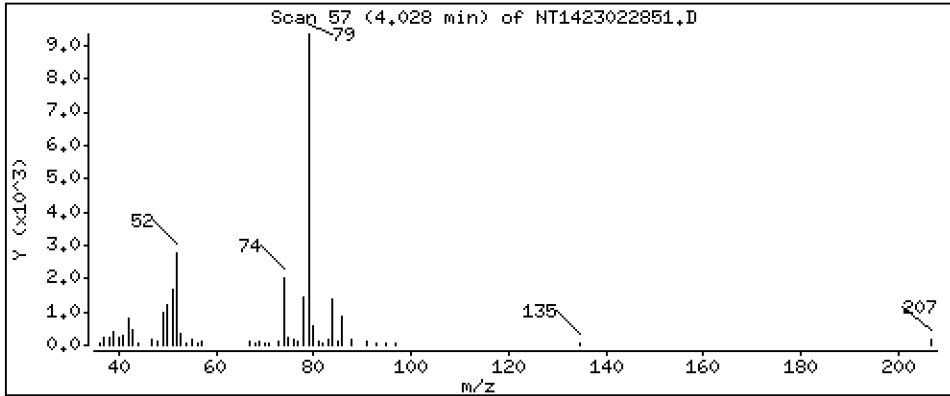
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,3993 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

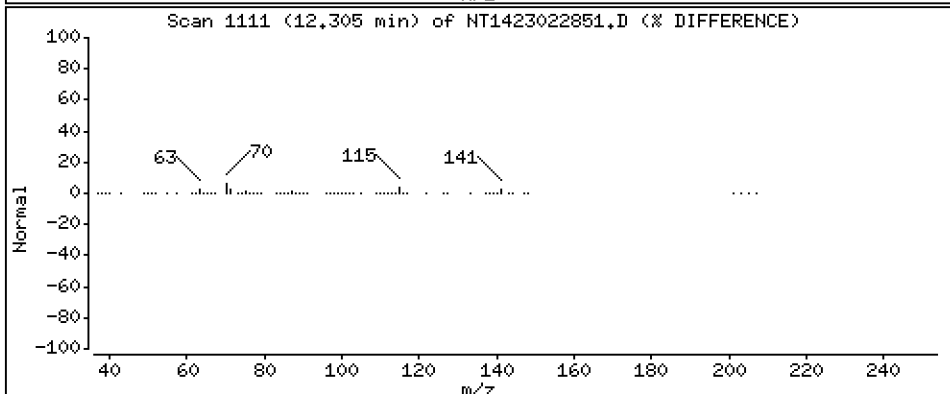
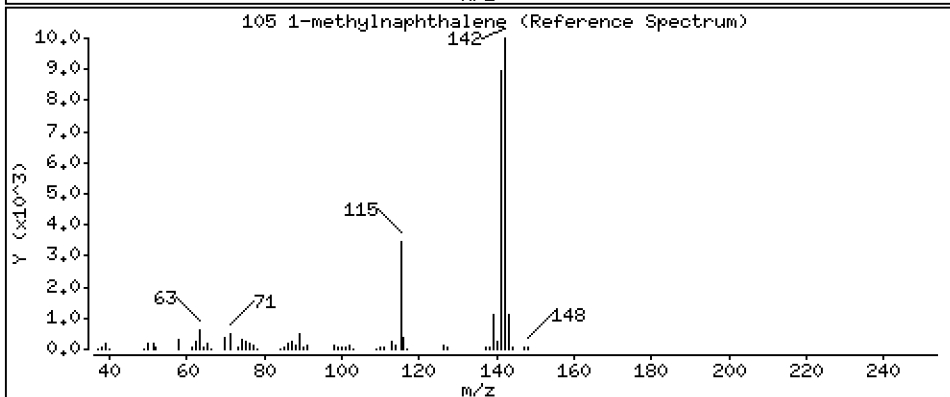
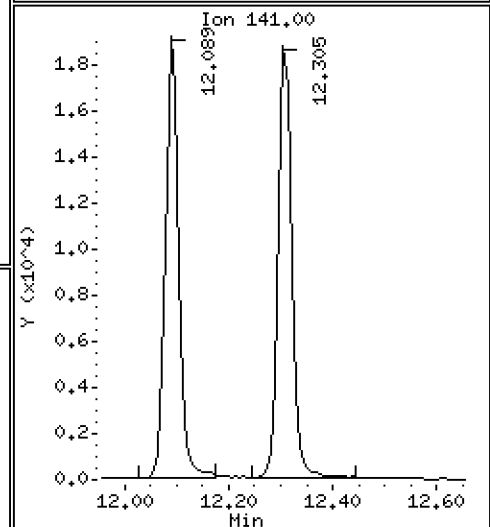
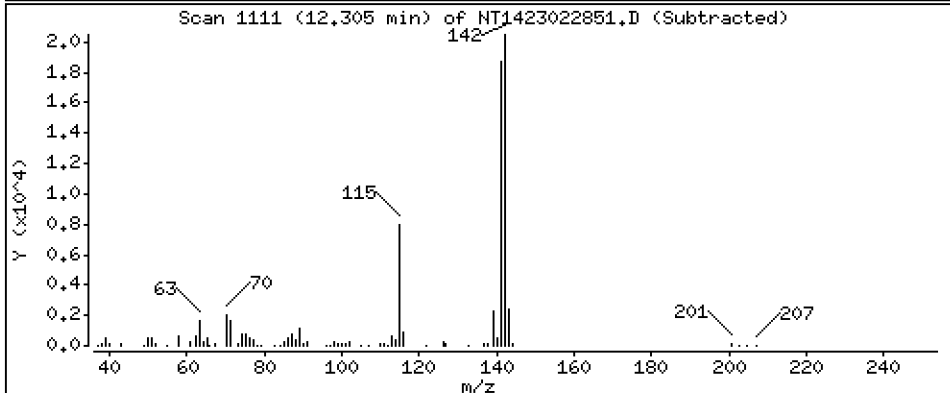
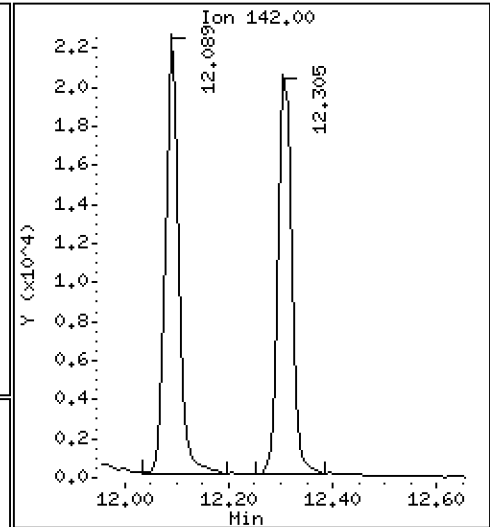
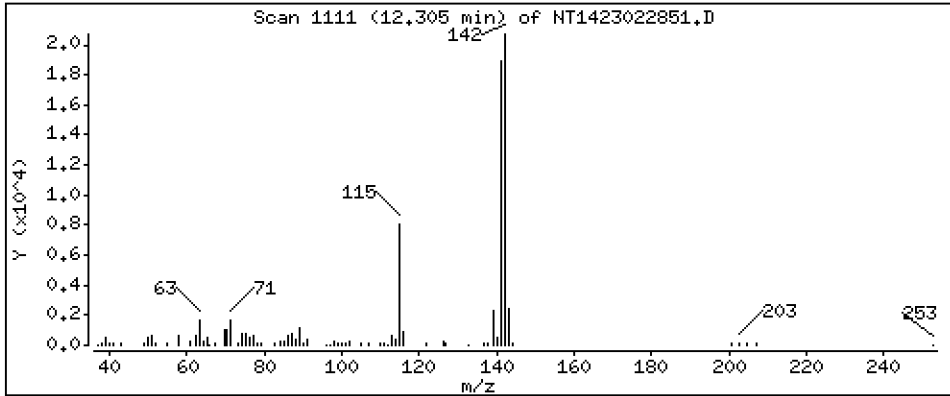
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,4888 ug/mL





Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

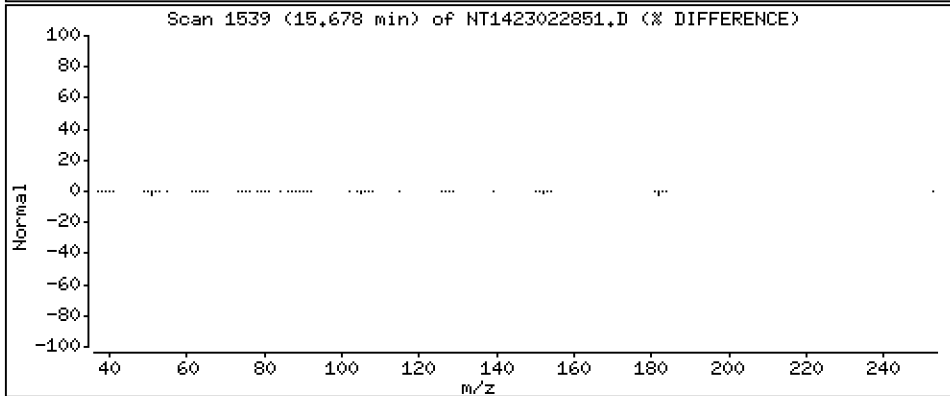
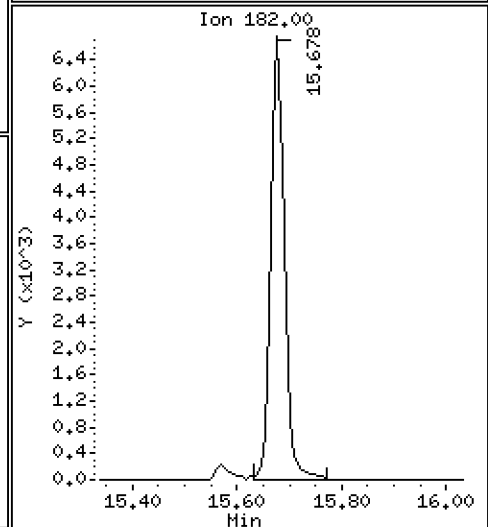
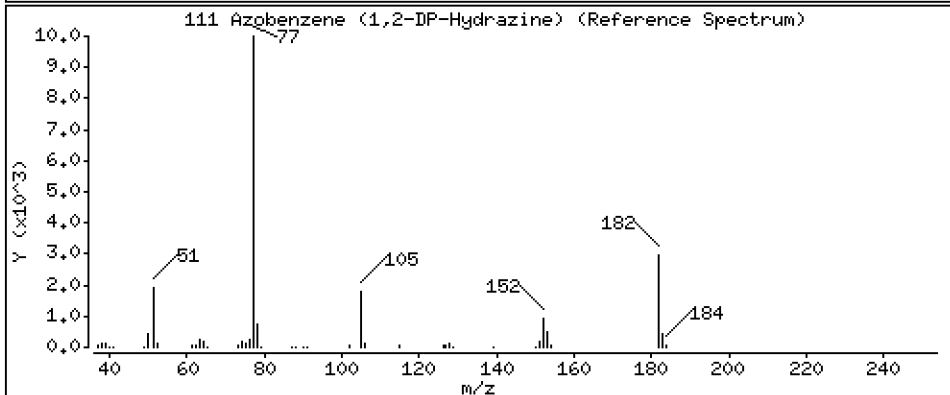
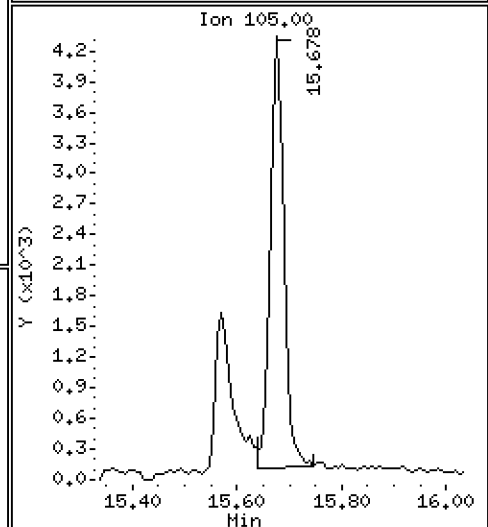
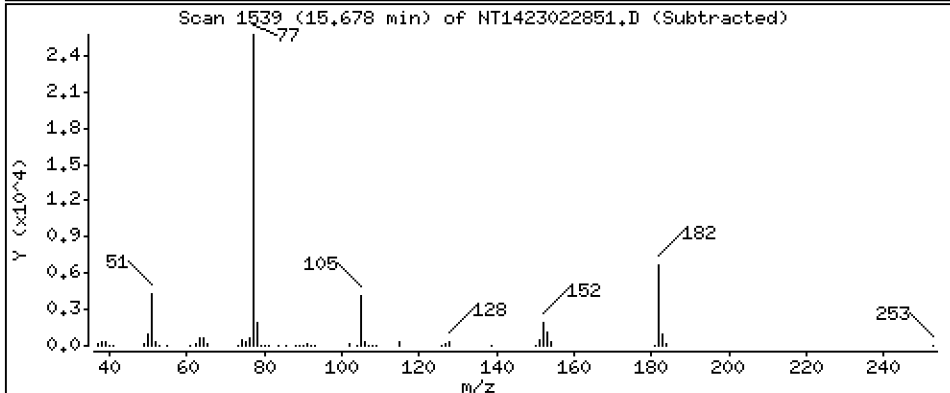
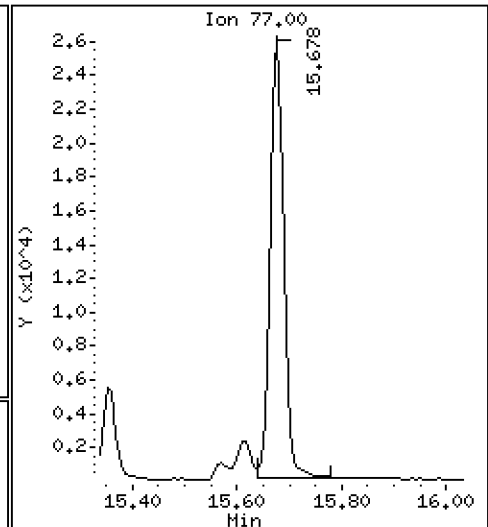
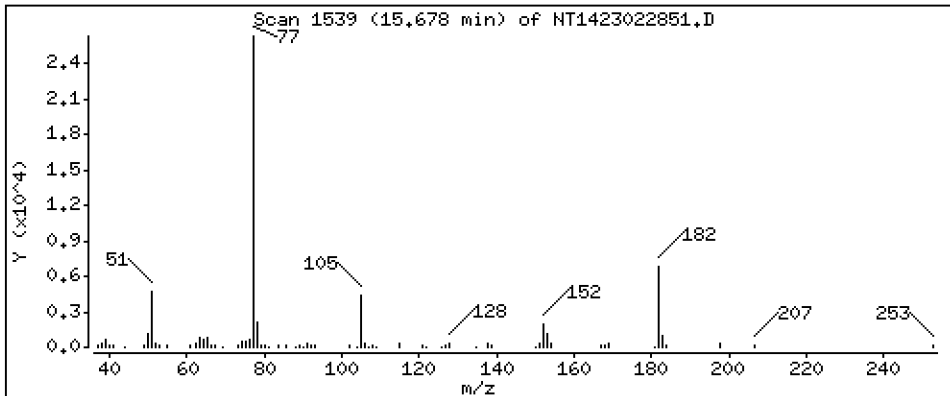
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,5802 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

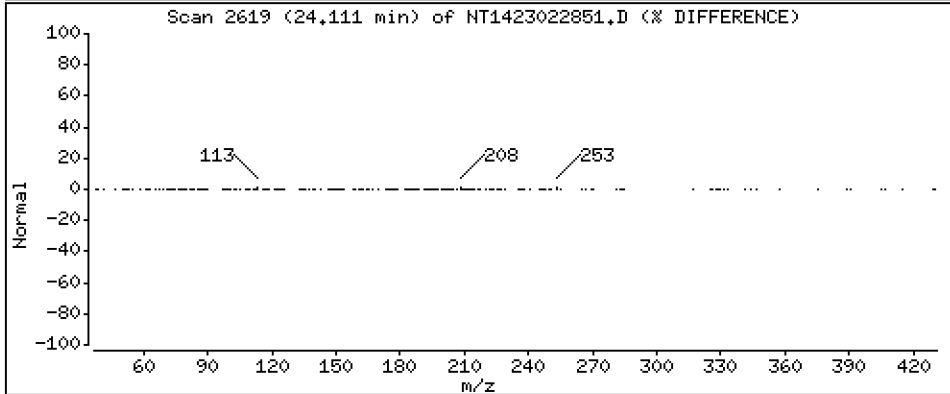
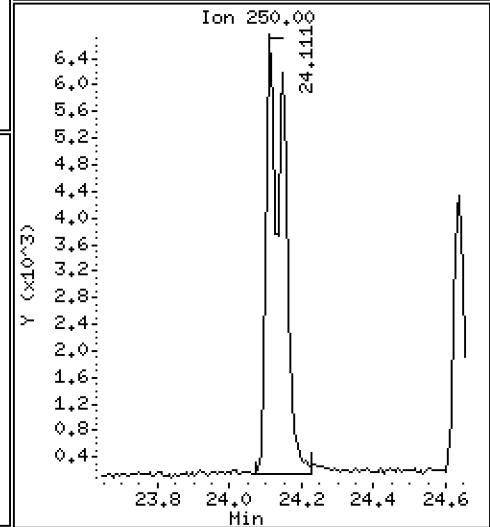
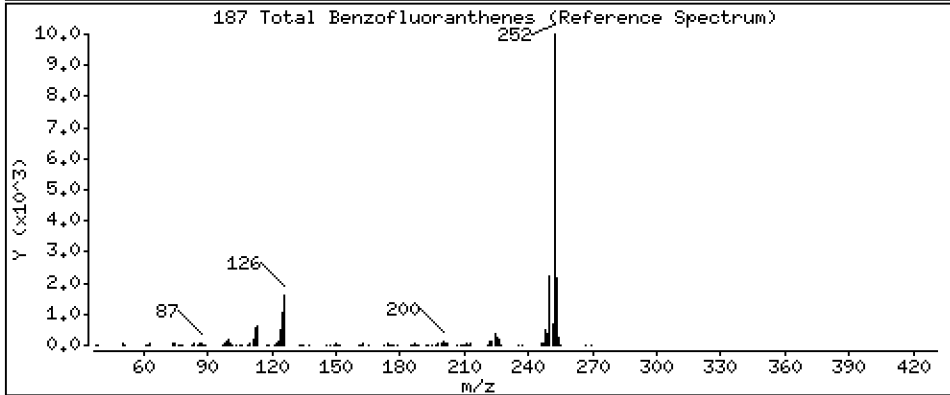
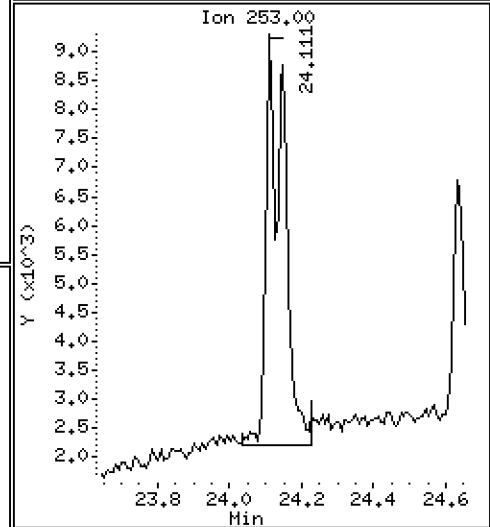
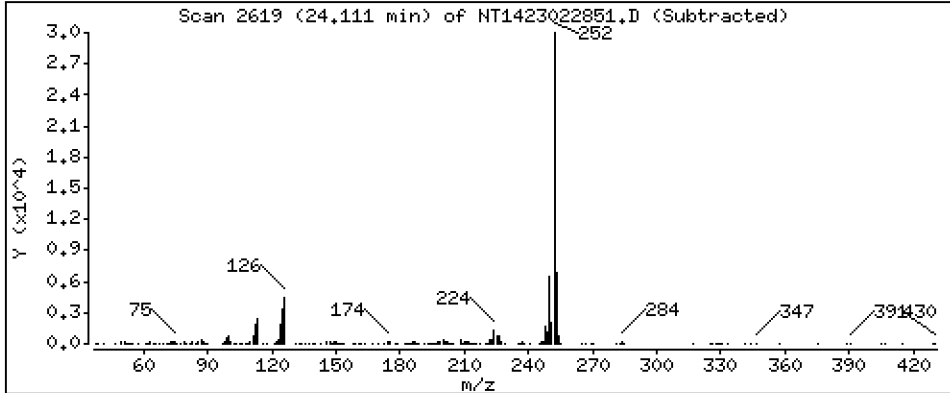
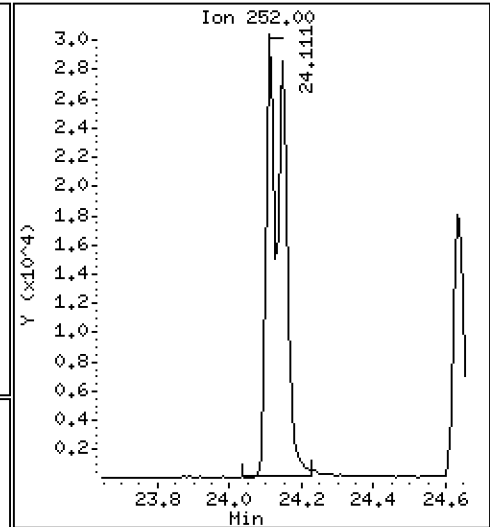
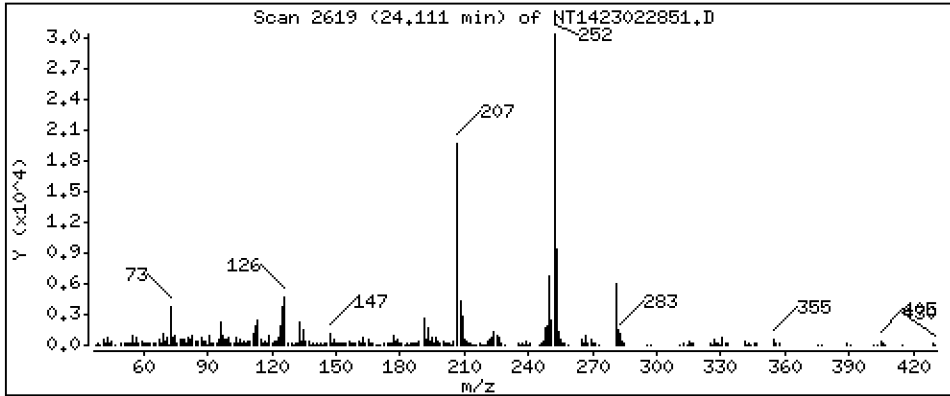
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,266 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

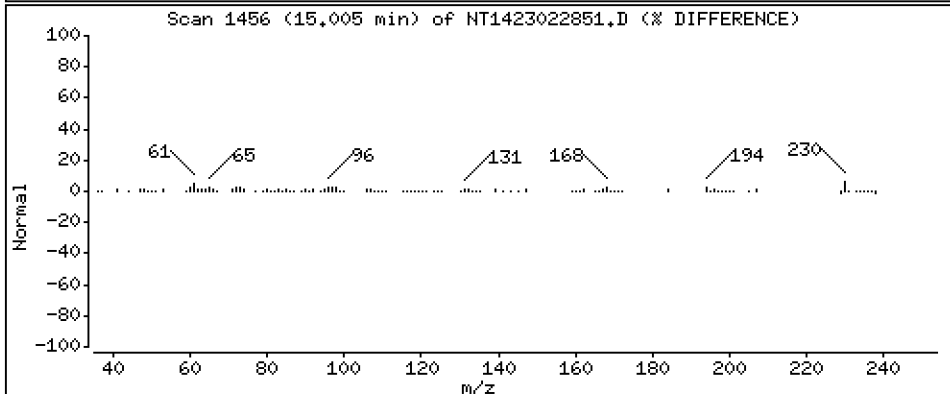
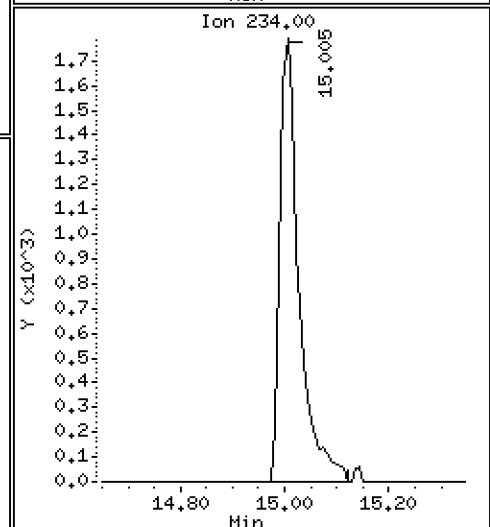
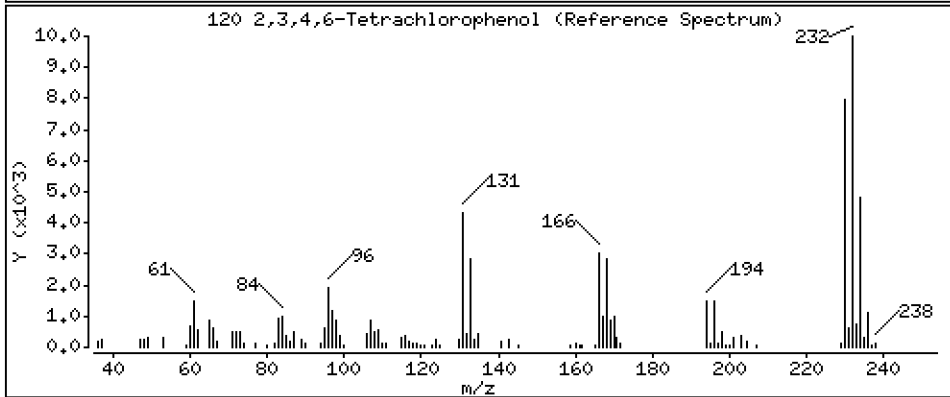
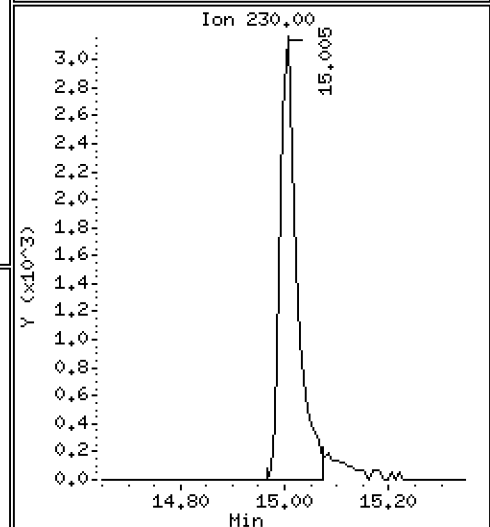
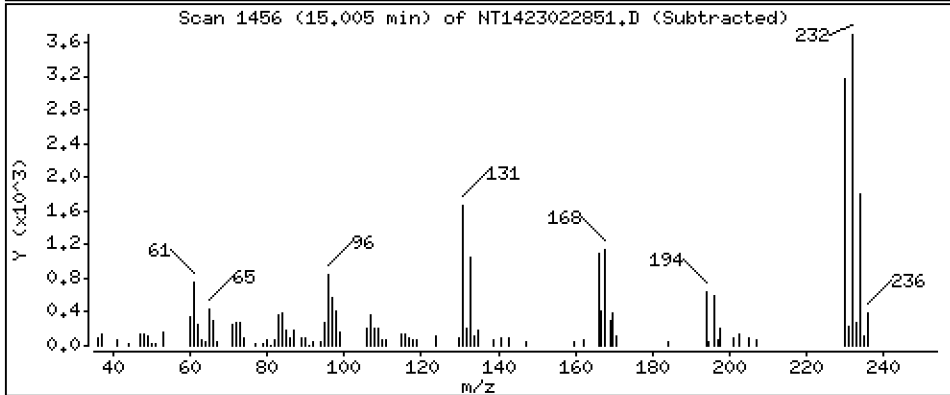
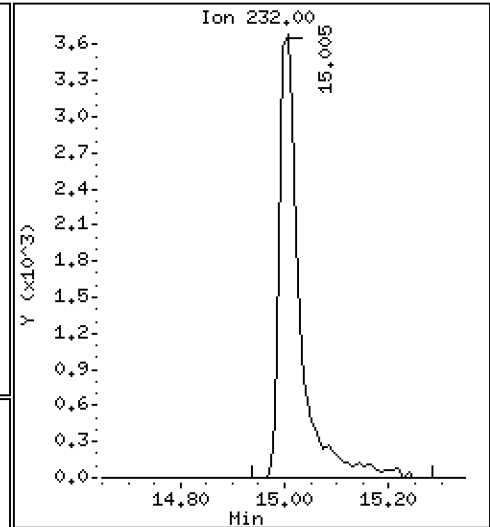
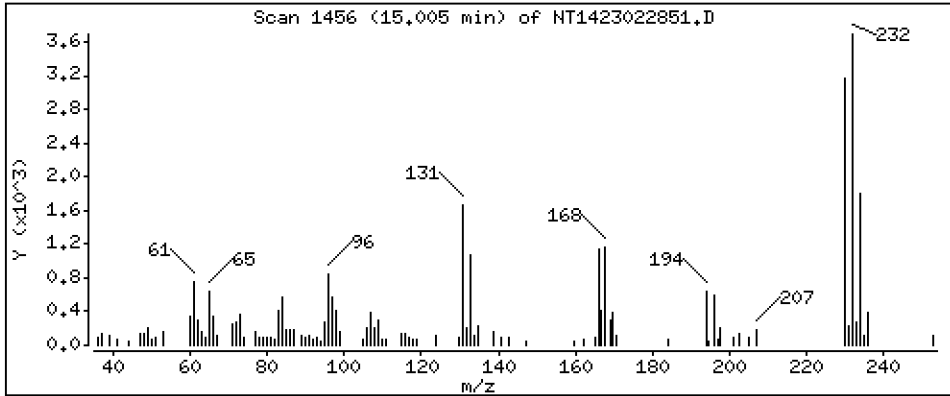
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,3973 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022851.D  
 Lab Smp Id: SLB0374-LCV6  
 Inj Date : 02-MAR-2023 07:40 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-LCV6  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 11-Mar-2023 13:20 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |              |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|--------------|
|                                 |       |     |        |        |         |          | ON-COLUMN      | FINAL        |
|                                 | MASS  |     |        |        |         |          | (ug/mL)        | (ug/mL)      |
| \$ 1 2-Fluorophenol             | 112   |     | 6.074  | 6.066  | (0.740) | 20984    | 0.69459        | 0.6946       |
| \$ 2 Phenol-d5                  | 99    |     | 7.658  | 7.650  | (0.933) | 34390    | 0.80177        | 0.8018       |
| 3 Phenol                        | 94    |     | 7.681  | 7.673  | (0.936) | 25539    | 0.49903        | 0.4990       |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.866  | 7.858  | (0.958) | 31022    | 0.85058        | 0.8506       |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.789  | 7.789  | (0.949) | 19564    | 0.54272        | 0.5427       |
| 6 2-Chlorophenol                | 128   |     | 7.889  | 7.889  | (0.961) | 20782    | 0.55129        | 0.5513       |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.137  | 8.137  | (0.991) | 22253    | 0.53566        | 0.5357       |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.207  | 8.207  | (1.000) | 111416   | 4.00000        |              |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.238  | 8.238  | (1.004) | 21862    | 0.53246        | 0.5325       |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.556  | 8.556  | (1.043) | 13982    | 0.50923        | 0.5092       |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.587  | 8.579  | (1.046) | 20682    | 0.52532        | 0.5253       |
| 11 Benzyl alcohol               | 108   |     | 8.626  | 8.517  | (1.051) | 6195     | 0.27759        | 0.2776 (M)   |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.797  | 8.797  | (1.072) | 5705     | 0.53732        | 0.5373 (M)   |
| 13 2-Methylphenol               | 108   |     | 8.766  | 8.758  | (1.068) | 16531    | 0.51131        | 0.5113       |
| 17 Hexachloroethane             | 117   |     | 9.162  | 9.162  | (1.116) | 6013     | 0.38997        | 0.3900       |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.053  | 9.061  | (1.103) | 15082    | 0.61267        | 0.6127       |
| 15 4-Methylphenol               | 108   |     | 9.045  | 9.037  | (1.102) | 15475    | 0.41121        | 0.4112       |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.301  | 9.293  | (0.873) | 21791    | 0.55223        | 0.5522       |
| 19 Nitrobenzene                 | 77    |     | 9.332  | 9.332  | (0.876) | 20577    | 0.54266        | 0.5427       |
| 20 Isophorone                   | 82    |     | 9.775  | 9.782  | (0.917) | 29540    | 0.49896        | 0.4990       |
| 21 2-Nitrophenol                | 139   |     | 9.961  | 9.953  | (0.935) | 9198     | 0.46853        | 0.4685 (M)   |
| 22 2,4-Dimethylphenol           | 107   |     | 10.062 | 10.054 | (0.944) | 35702    | 1.03278        | 1.033        |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.232 | 10.232 | (0.960) | 19117    | 0.50146        | 0.5015       |
| 24 Benzoic acid                 | 105   |     | 10.657 | 10.372 | (1.000) | 14897    | 1.08744        | 1.087 (M)    |
| 25 2,4-Dichlorophenol           | 162   |     | 10.434 | 10.418 | (0.979) | 27138    | 0.77567        | 0.7757       |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.580 | 10.580 | (0.993) | 19105    | 0.48902        | 0.4890       |
| * 27 Naphthalene-d8             | 136   |     | 10.657 | 10.665 | (1.000) | 403388   | 4.00000        |              |
| 28 Naphthalene                  | 128   |     | 10.696 | 10.704 | (1.004) | 56987    | 0.52962        | 0.5296       |
| 29 4-Chloroaniline              | 127   |     | 10.874 | 10.866 | (1.020) | 39723    | 0.86313        | 0.8631       |
| 30 Hexachlorobutadiene          | 225   |     | 11.074 | 11.074 | (1.039) | 10467    | 0.43906        | 0.4391       |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.872 | 11.856 | (1.114) | 30814    | 0.99029        | 0.9903       |
| 32 2-Methylnaphthalene          | 142   |     | 12.088 | 12.088 | (1.134) | 39522    | 0.49600        | 0.4960       |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.553 | 12.553 | (0.881) | 145      | 0.00611        | 0.006113 (M) |

| Compounds                         | QUANT SIG |        |        |         |          | CONCENTRATIONS       |                  |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 12.731 | 12.731 | (0.894) | 20334    | 0.92054              | 0.9205           |
| 35 2,4,5-Trichlorophenol          | 196       | 12.823 | 12.808 | (0.900) | 22272    | 0.93253              | 0.9325           |
| § 36 2-Fluorobiphenyl             | 172       | 12.885 | 12.885 | (0.904) | 46152    | 0.52438              | 0.5244           |
| 37 2-Chloronaphthalene            | 162       | 13.071 | 13.071 | (0.917) | 36743    | 0.52078              | 0.5208           |
| 38 2-Nitroaniline                 | 65        | 13.365 | 13.365 | (0.938) | 20152    | 1.09516              | 1.095            |
| 39 Dimethylphthalate              | 163       | 13.806 | 13.806 | (0.969) | 39572    | 0.55636              | 0.5564           |
| 40 Acenaphthylene                 | 152       | 13.930 | 13.930 | (0.978) | 58606    | 0.56609              | 0.5661           |
| 41 2,6-Dinitrotoluene             | 165       | 13.930 | 13.938 | (0.978) | 17231    | 1.03380              | 1.034            |
| * 42 Acenaphthene-d10             | 164       | 14.247 | 14.247 | (1.000) | 226130   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138       | 14.224 | 14.216 | (0.998) | 13276    | 0.77714              | 0.7771           |
| 44 Acenaphthene                   | 153       | 14.309 | 14.309 | (1.004) | 35129    | 0.52998              | 0.5300           |
| 45 2,4-Dinitrophenol              | 184       | 14.503 | 14.425 | (1.018) | 3828     | 0.36319              | 0.3632 (M)       |
| 46 Dibenzofuran                   | 168       | 14.634 | 14.642 | (1.027) | 53071    | 0.50319              | 0.5032           |
| 47 4-Nitrophenol                  | 109       | 14.711 | 14.595 | (1.033) | 7005     | 0.82883              | 0.8288 (M)       |
| 48 2,4-Dinitrotoluene             | 165       | 14.734 | 14.734 | (1.034) | 21675    | 0.90332              | 0.9033           |
| 50 Diethylphthalate               | 149       | 15.253 | 15.260 | (1.071) | 37412    | 0.56248              | 0.5625           |
| 49 Fluorene                       | 166       | 15.345 | 15.345 | (1.077) | 48211    | 0.54253              | 0.5425           |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.361 | 15.361 | (1.078) | 23681    | 0.50085              | 0.5008           |
| 52 4-Nitroaniline                 | 138       | 15.500 | 15.484 | (1.088) | 12486    | 0.73733              | 0.7373           |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.569 | 15.569 | (0.902) | 9300     | 0.68046              | 0.6805           |
| 54 N-Nitrosodiphenylamine         | 169       | 15.615 | 15.615 | (0.905) | 29279    | 0.56672              | 0.5667           |
| § 55 2,4,6-Tribromophenol         | 330       | 15.885 | 15.885 | (1.115) | 7056     | 0.58013              | 0.5801           |
| 56 4-Bromophenyl-phenylether      | 248       | 16.348 | 16.348 | (0.948) | 11488    | 0.50578              | 0.5058           |
| 57 Hexachlorobenzene              | 284       | 16.642 | 16.642 | (0.965) | 12906    | 0.51681              | 0.5168           |
| 58 Pentachlorophenol              | 266       | 17.036 | 17.013 | (0.987) | 6504     | 0.55274              | 0.5527 (M)       |
| * 59 Phenanthrene-d10             | 188       | 17.253 | 17.253 | (1.000) | 411120   | 4.00000              |                  |
| 60 Phenanthrene                   | 178       | 17.300 | 17.299 | (1.003) | 56582    | 0.51736              | 0.5174           |
| 61 Anthracene                     | 178       | 17.392 | 17.392 | (1.008) | 54458    | 0.52671              | 0.5267           |
| 62 Carbazole                      | 167       | 17.756 | 17.748 | (1.029) | 45380    | 0.50079              | 0.5008           |
| 63 Di-n-butylphthalate            | 149       | 18.599 | 18.599 | (1.078) | 60175    | 0.51476              | 0.5148           |
| 64 Fluoranthene                   | 202       | 19.721 | 19.729 | (0.882) | 60173    | 0.46602              | 0.4660           |
| 65 Pyrene                         | 202       | 20.154 | 20.154 | (0.901) | 63458    | 0.46614              | 0.4661           |
| § 66 Terphenyl-d14                | 244       | 20.479 | 20.479 | (0.916) | 48418    | 0.46193              | 0.4619           |
| 67 Butylbenzylphthalate           | 149       | 21.447 | 21.447 | (0.959) | 24820    | 0.51573              | 0.5157           |
| 68 Benzo(a)anthracene             | 228       | 22.346 | 22.353 | (0.999) | 62629    | 0.54936              | 0.5494           |
| * 69 Chrysene-d12                 | 240       | 22.369 | 22.376 | (1.000) | 340331   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.330 | 22.338 | (0.998) | 59762    | 1.83563              | 1.836            |
| 71 Chrysene                       | 228       | 22.415 | 22.423 | (1.002) | 58976    | 0.53821              | 0.5382           |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.500 | 22.500 | (0.958) | 33247    | 0.45398              | 0.4540           |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.476 | 23.483 | (1.000) | 479730   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149       | 23.484 | 23.491 | (1.000) | 63248    | 0.50073              | 0.5007           |
| 74 Benzo(b)fluoranthene           | 252       | 24.111 | 24.118 | (0.975) | 45890    | 0.57643              | 0.5764           |
| 75 Benzo(k)fluoranthene           | 252       | 24.149 | 24.149 | (0.977) | 57910    | 0.67426              | 0.6743           |
| 76 Benzo(a)pyrene                 | 252       | 24.629 | 24.637 | (0.996) | 36970    | 0.54128              | 0.5413           |
| * 77 Perylene-d12                 | 264       | 24.722 | 24.730 | (1.000) | 240961   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.824 | 26.808 | (1.085) | 19630    | 0.22832              | 0.2283           |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.839 | 26.824 | (1.086) | 18262    | 0.25008              | 0.2501           |
| 80 Benzo(g,h,i)perylene           | 276       | 27.422 | 27.414 | (1.109) | 13685    | 0.18250              | 0.1825           |
| 90 N-Nitrosodimethylamine         | 74        | 3.996  | 3.996  | (0.487) | 17862    | 0.78275              | 0.7828           |
| 91 Aniline                        | 93        | 7.689  | 7.689  | (0.937) | 50583    | 0.96024              | 0.9602           |
| 93 Benzidine                      | 184       | 20.023 | 20.007 | (0.895) | 31561    | 0.57203              | 0.5720           |
| 103 Pyridine                      | 79        | 4.027  | 3.996  | (0.491) | 26951    | 0.39928              | 0.3993           |
| 105 1-methylnaphthalene           | 142       | 12.305 | 12.305 | (1.155) | 35860    | 0.48884              | 0.4888           |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.677 | 15.685 | (1.100) | 44301    | 0.58017              | 0.5802           |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 24.111 | 24.149 | (0.975) | 98590    | 1.26597              | 1.266            |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 15.005 | 14.997 | (1.053) | 10119    | 0.39729              | 0.3973 (M)       |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 02-MAR-2023  
 Lab File ID: NT1423022851.D Calibration Time: 05:52  
 Lab Smp Id: SLB0374-LCV6  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 116519   | 58260      | 233038  | 111416 | -4.38  |
| 27 Naphthalene-d8     | 429090   | 214545     | 858180  | 403388 | -5.99  |
| 42 Acenaphthene-d10   | 250637   | 125319     | 501274  | 226130 | -9.78  |
| 59 Phenanthrene-d10   | 458117   | 229059     | 916234  | 411120 | -10.26 |
| 69 Chrysene-d12       | 393468   | 196734     | 786936  | 340331 | -13.50 |
| 134 Di-n-octylphthala | 572636   | 286318     | 1145272 | 479730 | -16.22 |
| 77 Perylene-d12       | 283320   | 141660     | 566640  | 240961 | -14.95 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.21   | 0.00  |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.66  | -0.07 |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.25  | 0.00  |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.25  | 0.00  |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.37  | -0.03 |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.48  | -0.03 |
| 77 Perylene-d12       | 24.73    | 24.23    | 25.23 | 24.72  | -0.03 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022851.D

Lab ID: SLB0374-LCV6  
nt14.i, ABN.m, 02-MAR-2023 07:40

RT CO-ELUTION COMPOUNDS

---

13.931 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND          |
|-------|---------|--------|-------------------|
| 1.051 | 1.038   | 0.0132 | Benzyl alcohol    |
| 1.000 | 0.972   | 0.0275 | Benzoic acid      |
| 1.018 | 1.012   | 0.0054 | 2,4-Dinitrophenol |
| 1.033 | 1.024   | 0.0082 | 4-Nitrophenol     |

RRT check based on Ccal File: NT1423022848.D

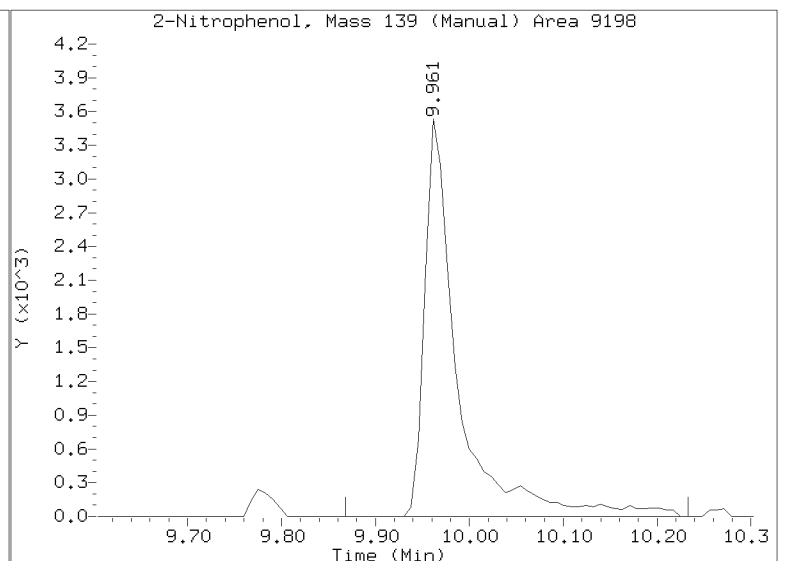
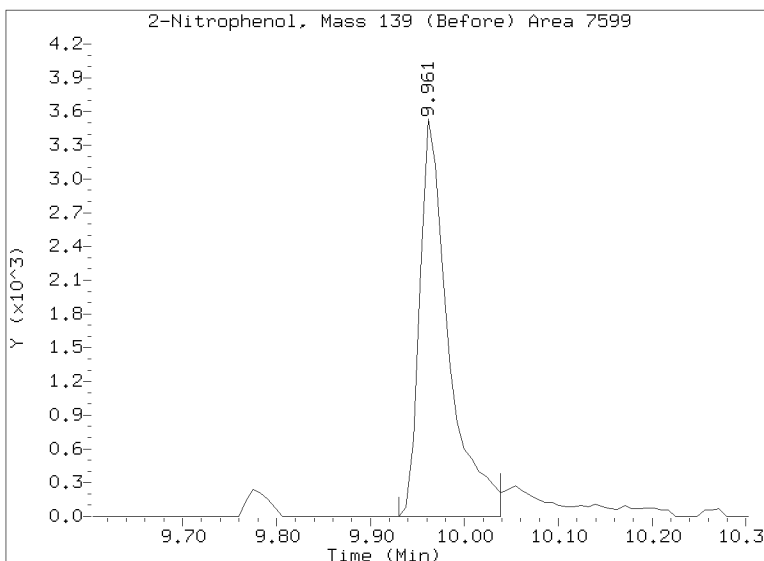
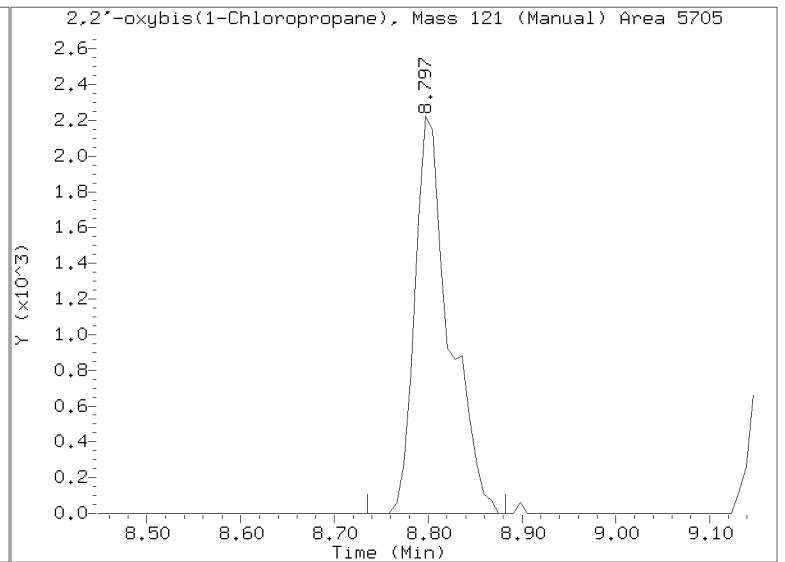
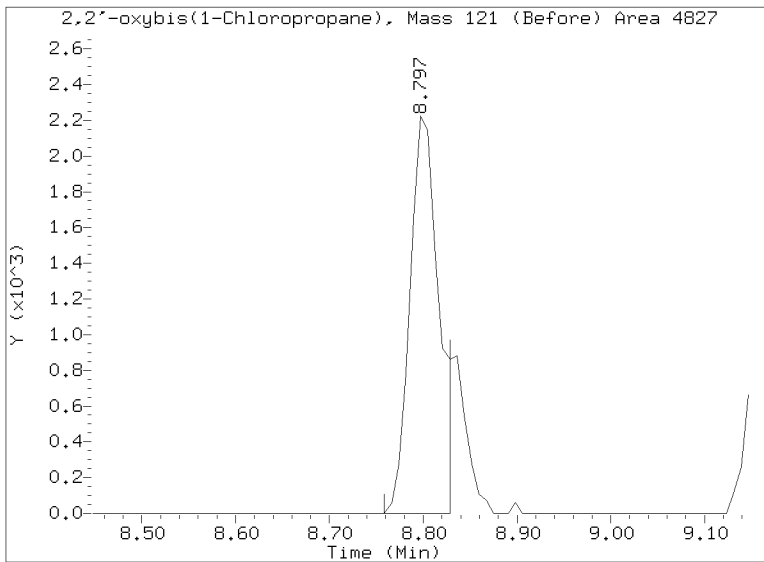
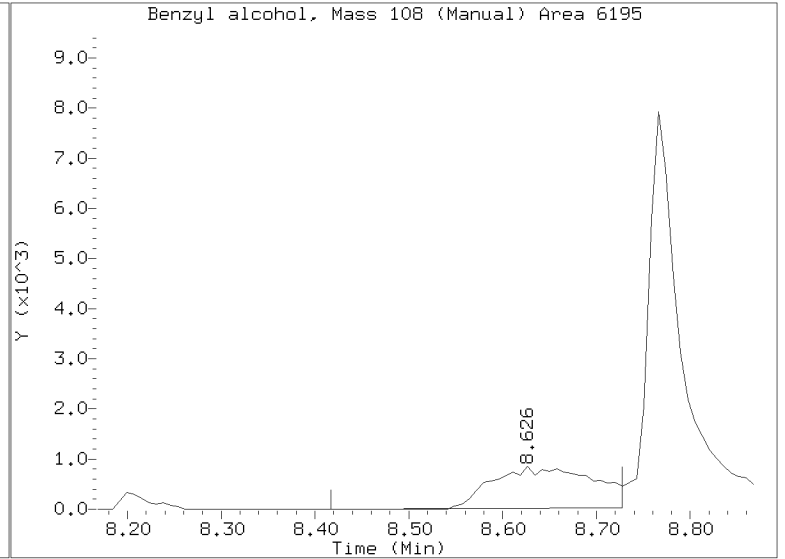
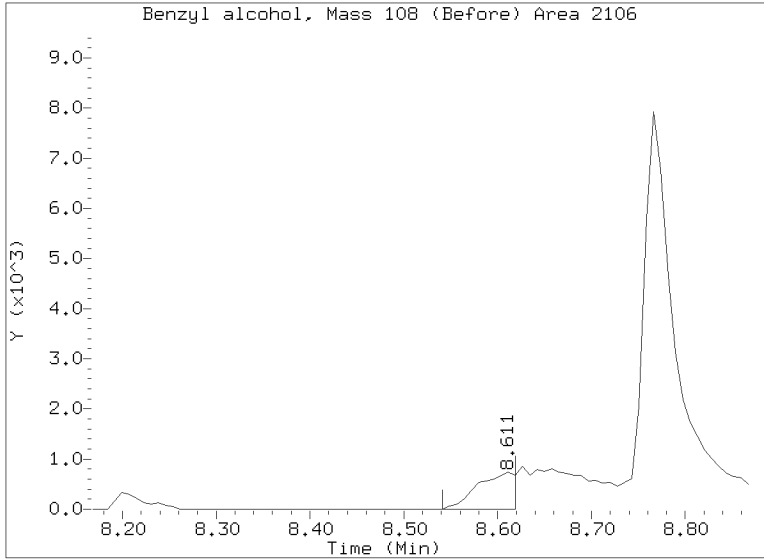
On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*



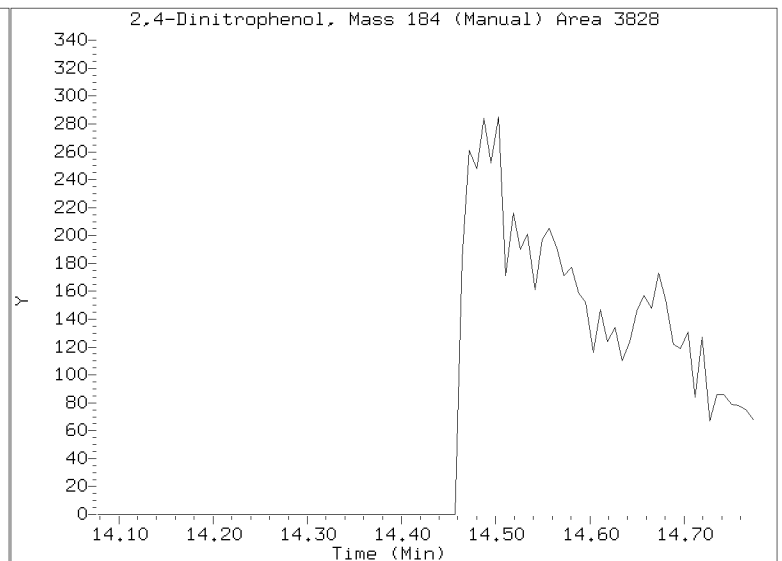
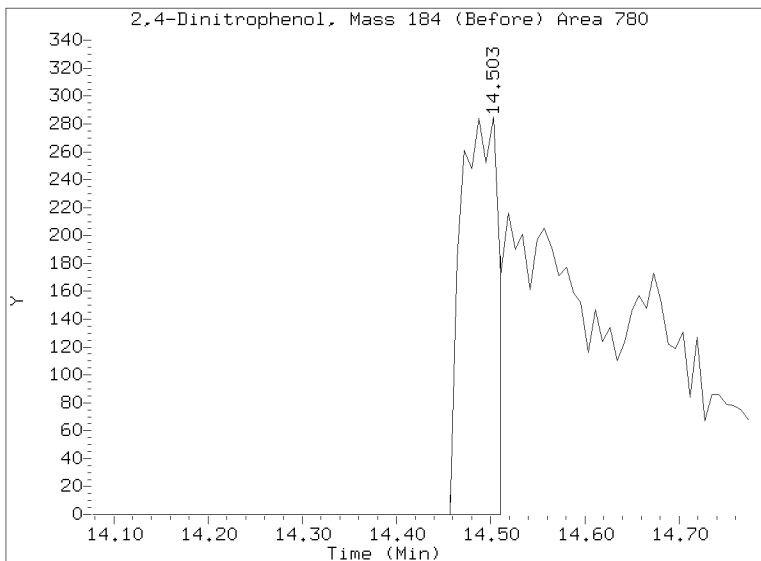
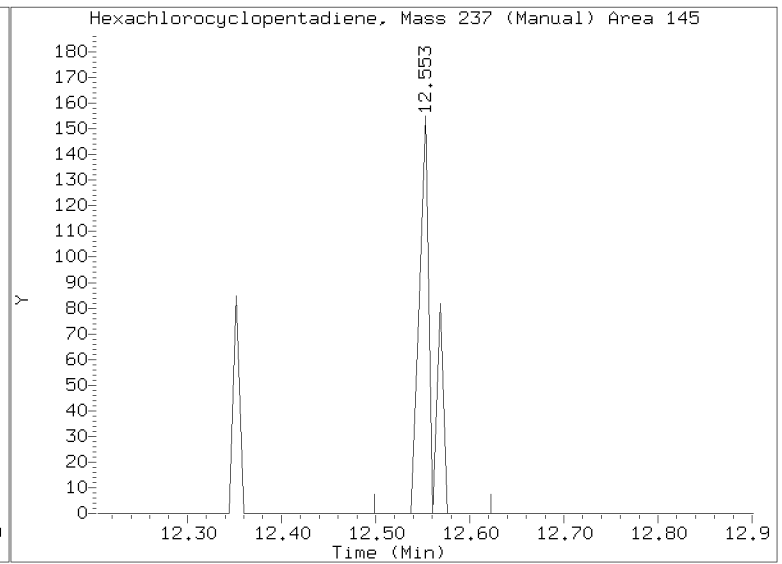
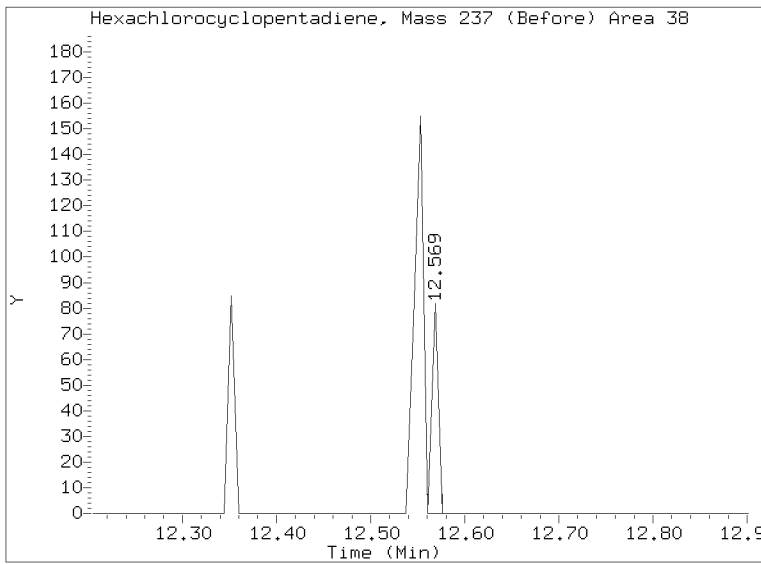
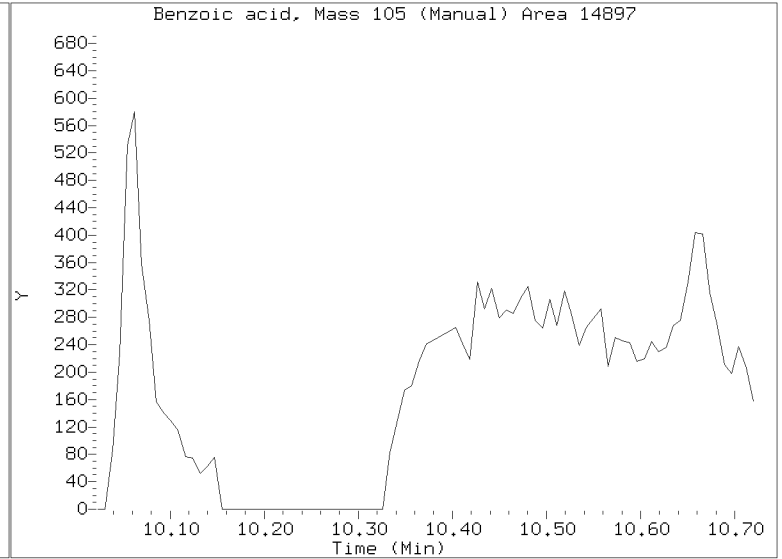
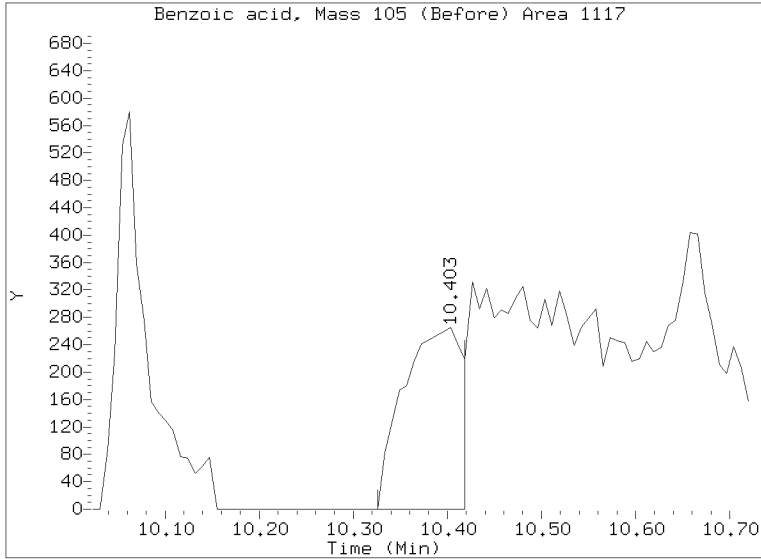
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Injection Date: 02-MAR-2023 07:40  
Lab ID:SLB0374-LCV6 Client ID:  
Report Date: 03/14/2023 08:43



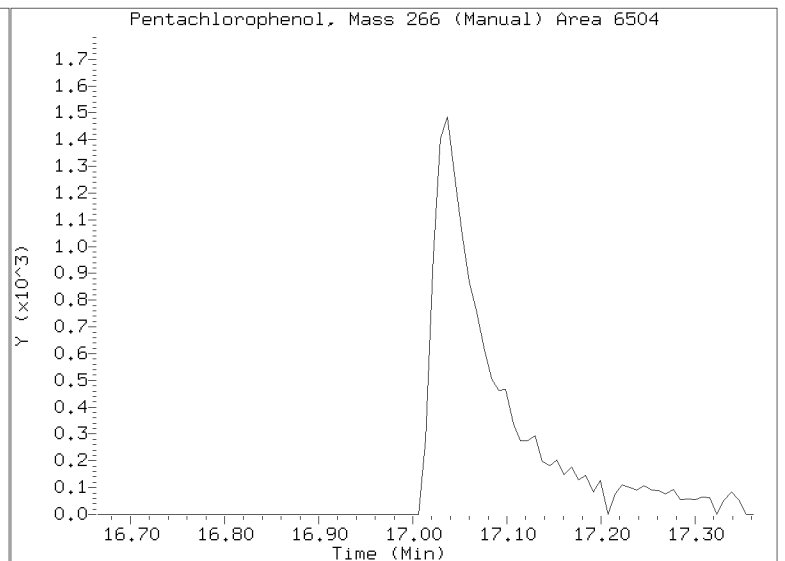
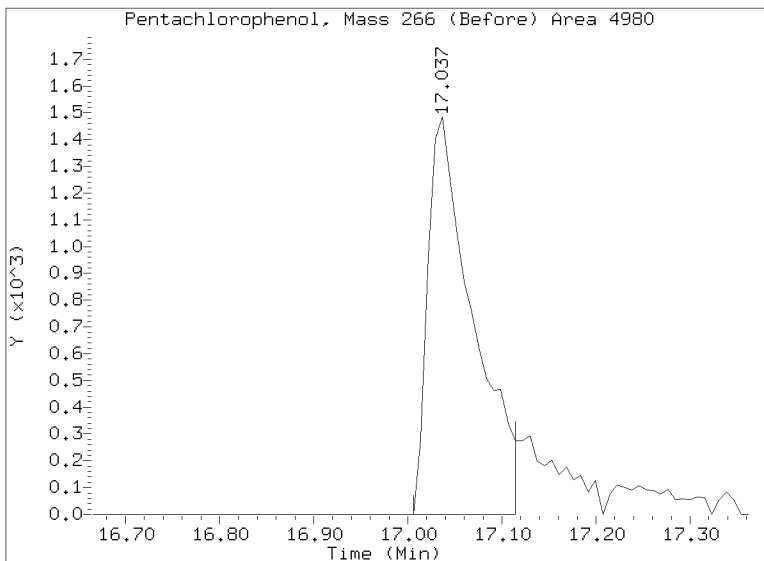
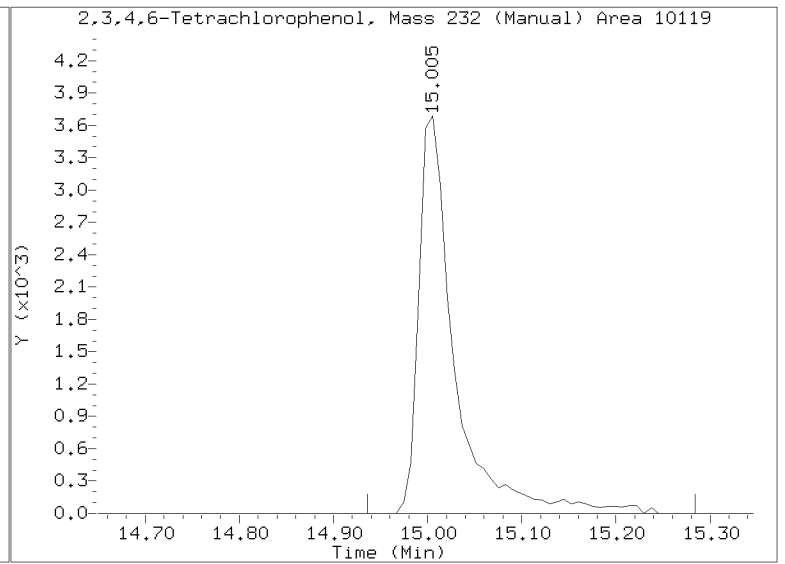
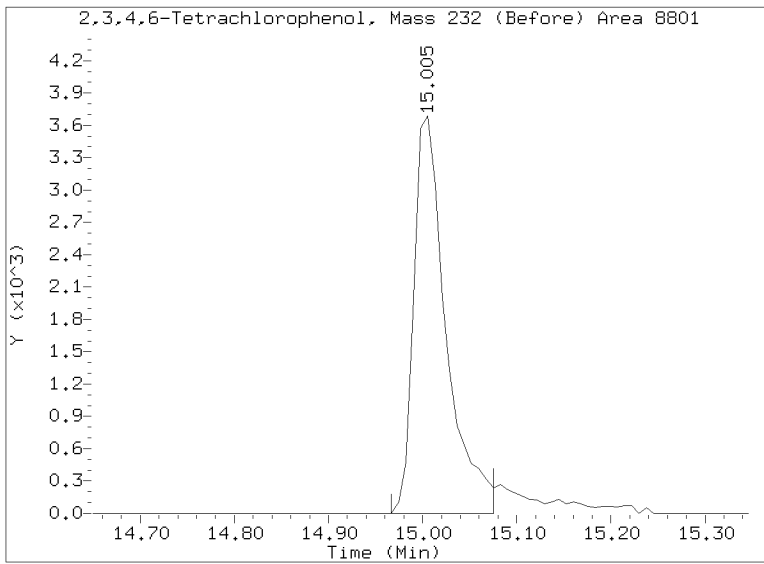
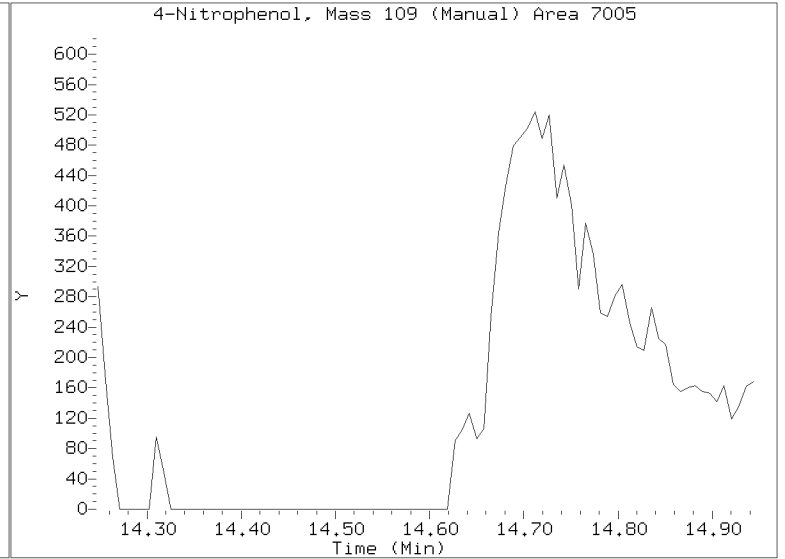
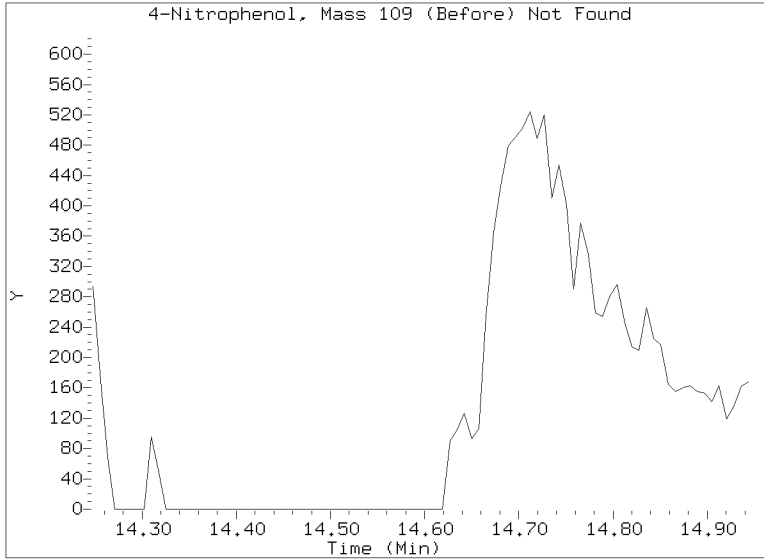
# Quant Ion Manual Peak Adjustment Report

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Injection Date: 02-MAR-2023 07:40  
Lab ID:SLB0374-LCV6 Client ID:  
Report Date: 03/14/2023 08:43



# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022851.D  
Injection Date: 02-MAR-2023 07:40  
Lab ID: SLB0374-LCV6 Client ID:  
Report Date: 03/14/2023 08:43





**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00046

**Laboratory ID:** SLC0397-LCV1

**Sequence:** SLC0397

**Standard ID:** K011105

| ANALYTE                     | EXPECTED<br>(ug/mL) | FOUND<br>(ug/mL) | % DRIFT | QC LIMIT |
|-----------------------------|---------------------|------------------|---------|----------|
| Phenol                      | 0.20000             | 0.2              | -6.4    | 50.00    |
| 4-Methylphenol              | 0.20000             | 0.2              | -11.5   | 50.00    |
| Naphthalene                 | 0.20000             | 0.2              | 5.1     | 50.00    |
| 2-Methylnaphthalene         | 0.20000             | 0.2              | 6.8     | 50.00    |
| Acenaphthylene              | 0.20000             | 0.2              | -0.9    | 50.00    |
| Dimethylphthalate           | 0.20000             | 0.2              | 1.9     | 50.00    |
| Acenaphthene                | 0.20000             | 0.2              | -1.0    | 50.00    |
| Dibenzofuran                | 0.20000             | 0.2              | 1.7     | 50.00    |
| Fluorene                    | 0.20000             | 0.2              | 5.3     | 50.00    |
| Phenanthrene                | 0.20000             | 0.2              | 3.4     | 50.00    |
| Anthracene                  | 0.20000             | 0.2              | -9.0    | 50.00    |
| Fluoranthene                | 0.20000             | 0.2              | -8.4    | 50.00    |
| Pyrene                      | 0.20000             | 0.2              | -8.5    | 50.00    |
| Butylbenzylphthalate        | 0.20000             | 0.2              | -8.2    | 50.00    |
| Benzo(a)anthracene          | 0.20000             | 0.2              | 0.3     | 50.00    |
| Chrysene                    | 0.20000             | 0.2              | 2.7     | 50.00    |
| bis(2-Ethylhexyl)phthalate  | 0.20000             | 0.2              | -17.4   | 50.00    |
| Benzo(a)fluoranthene, Total | 0.40000             | 0.4              | 2.1     | 50.00    |
| Benzo(a)pyrene              | 0.20000             | 0.2              | 2.4     | 50.00    |
| Indeno(1,2,3-cd)pyrene      | 0.20000             | 0.2              | -1.4    | 50.00    |
| Dibenzo(a,h)anthracene      | 0.20000             | 0.2              | 3.4     | 50.00    |
| Benzo(g,h,i)perylene        | 0.20000             | 0.2              | 2.5     | 50.00    |
| 2-Fluorophenol              | 0.30000             | 0.302            | 0.6     | 50.00    |
| Phenol-d5                   | 0.30000             | 0.275            | -8.2    | 50.00    |
| 2-Chlorophenol-d4           | 0.30000             | 0.297            | -1.1    | 50.00    |
| 1,2-Dichlorobenzene-d4      | 0.20000             | 0.210            | 5.1     | 50.00    |
| Nitrobenzene-d5             | 0.20000             | 0.173            | -13.4   | 50.00    |
| 2-Fluorobiphenyl            | 0.20000             | 0.206            | 3.0     | 50.00    |
| 2,4,6-Tribromophenol        | 0.30000             | 0.256            | -14.6   | 50.00    |



**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00046

**Laboratory ID:** SLC0397-LCV1

**Sequence:** SLC0397

**Standard ID:** K011105

|                 |         |       |     |       |
|-----------------|---------|-------|-----|-------|
| p-Terphenyl-d14 | 0.20000 | 0.202 | 0.9 | 50.00 |
|-----------------|---------|-------|-----|-------|

\* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222304.D

Date: 22-MAR-2023 18:59

Client ID:

Sample Info: SLC0397-LCW1

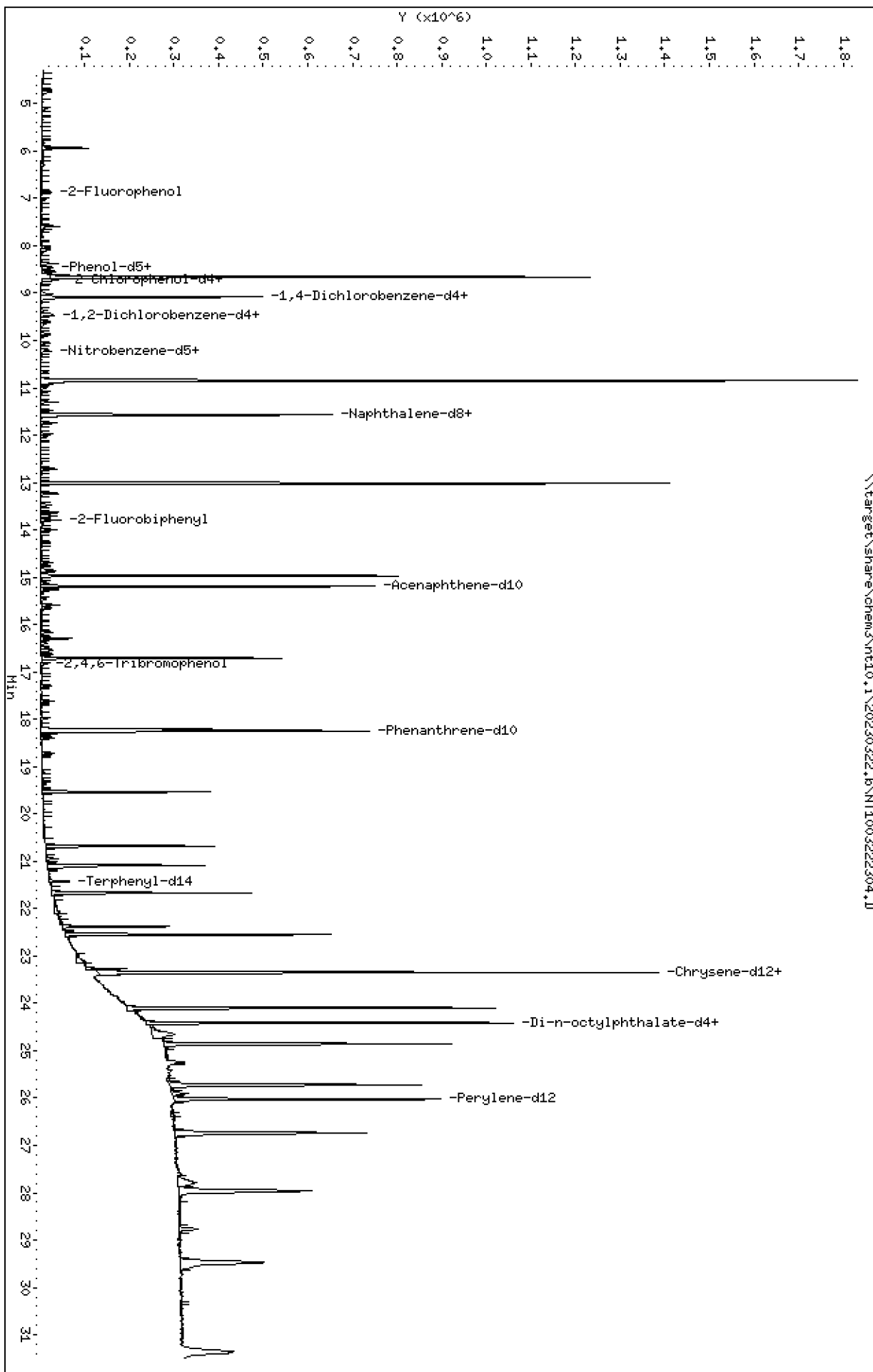
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

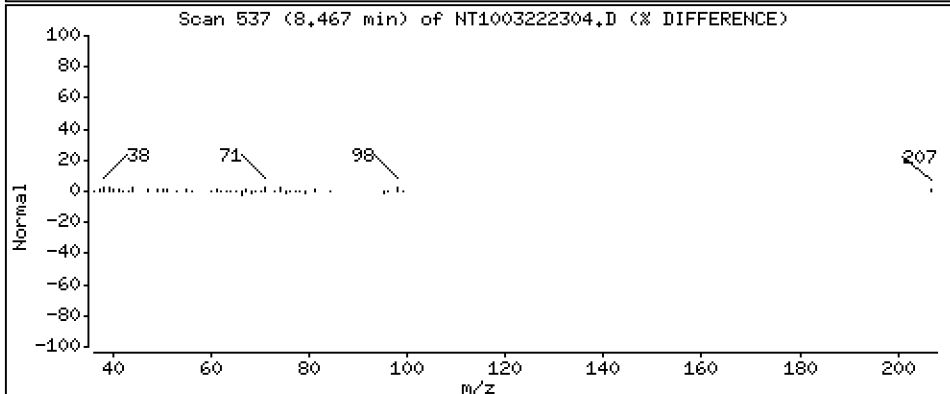
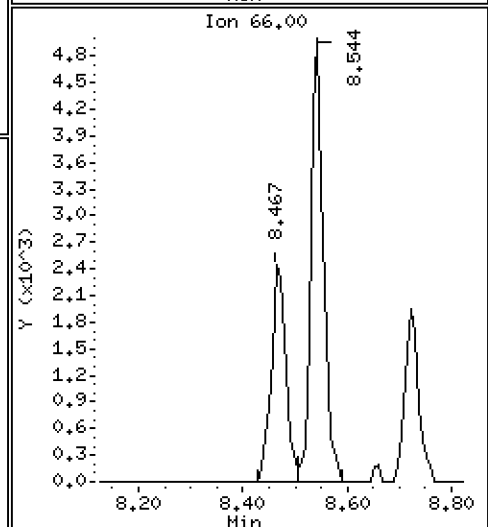
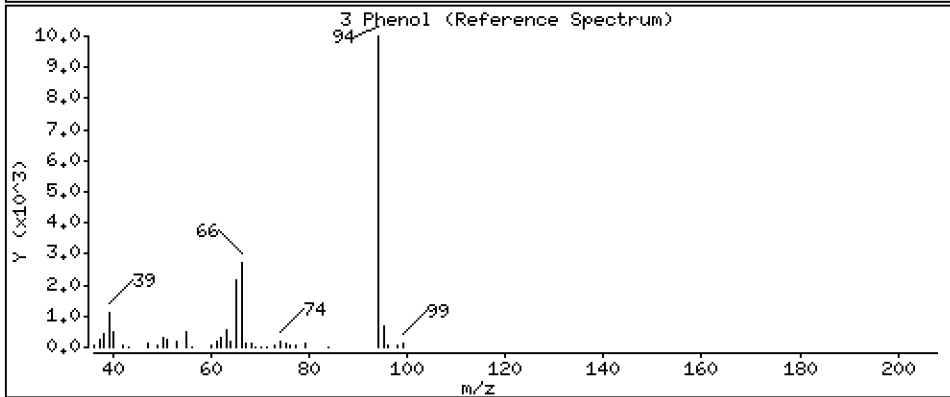
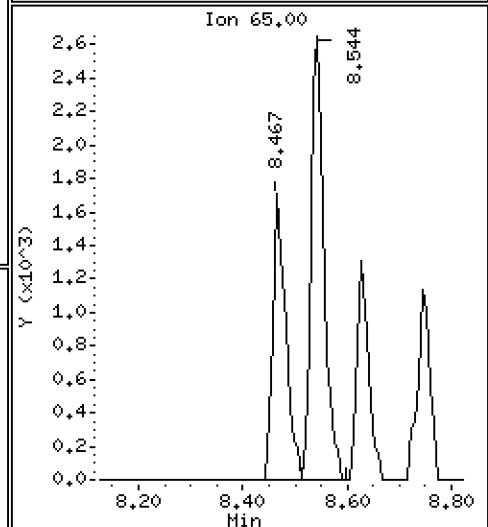
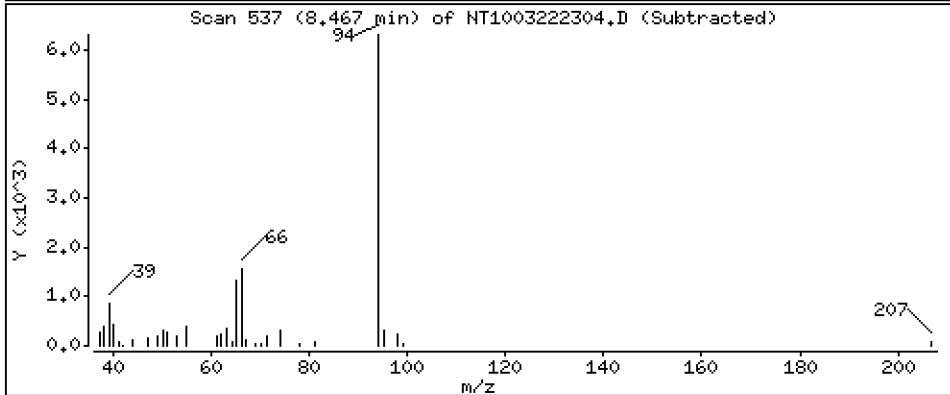
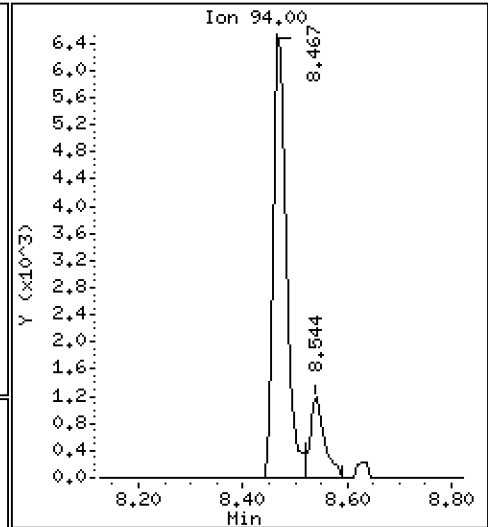
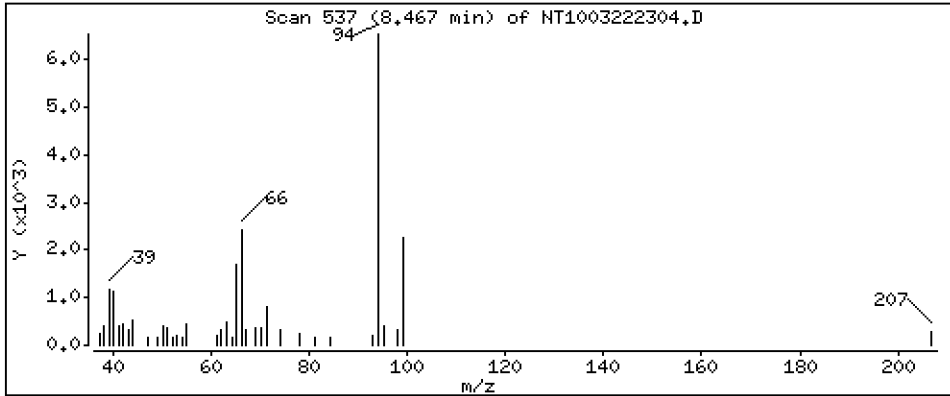
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,1871 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

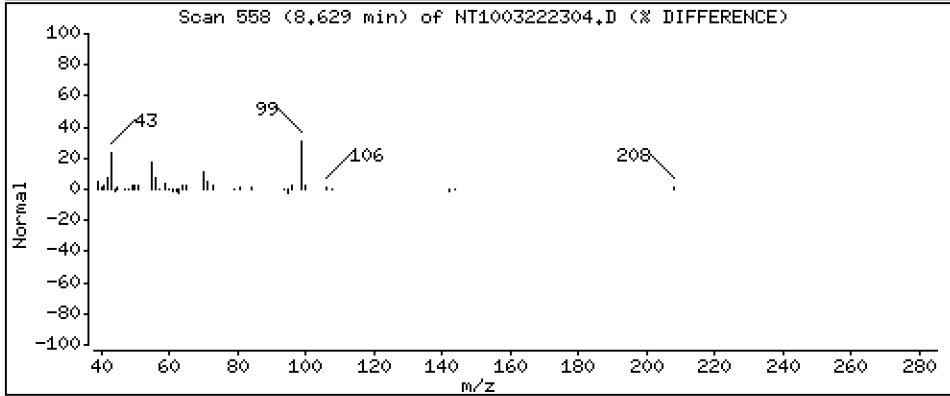
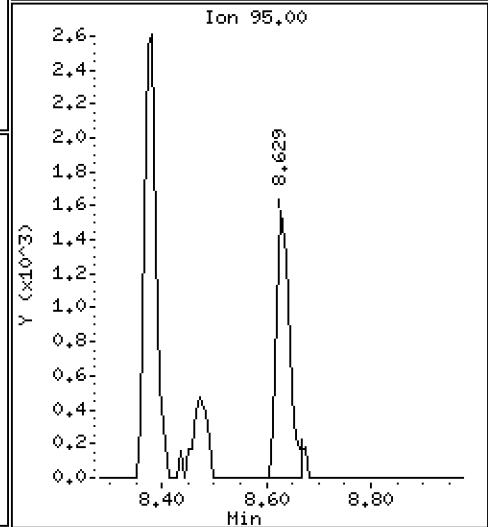
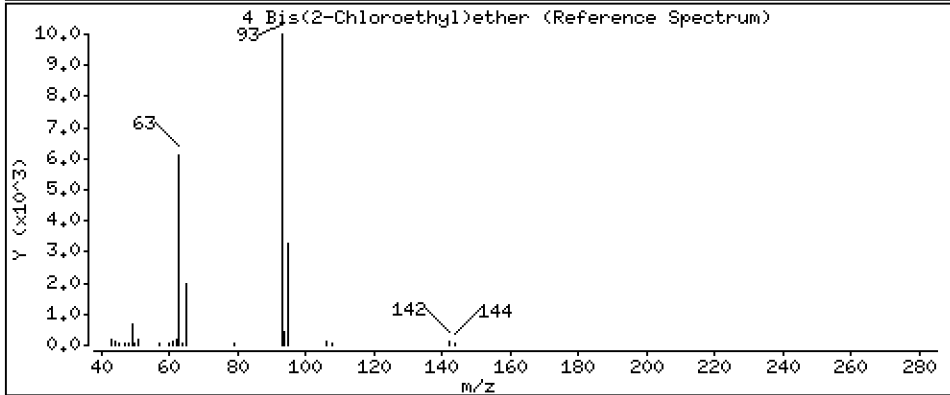
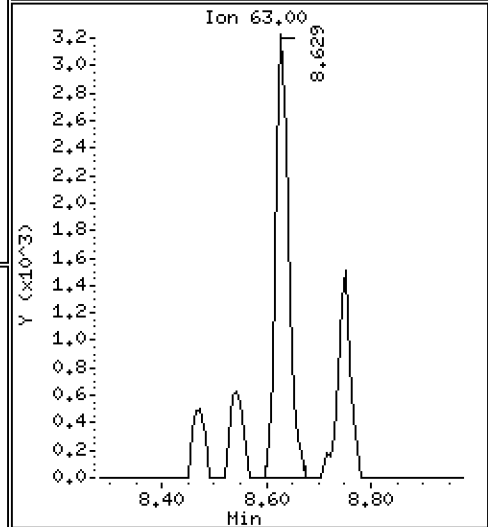
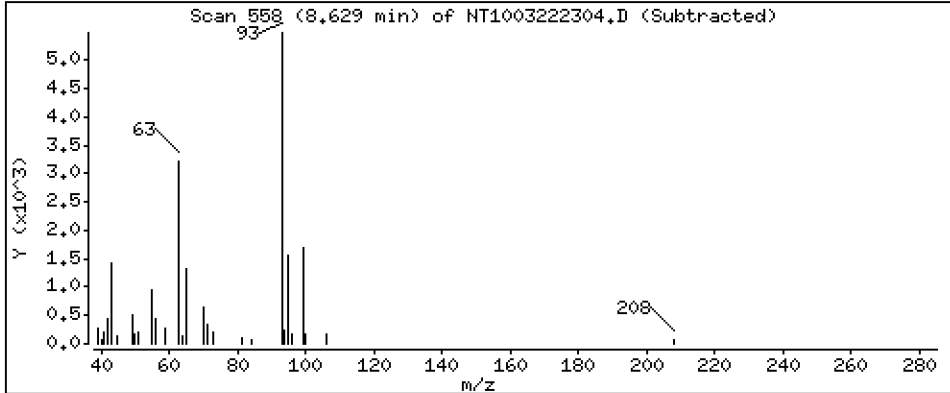
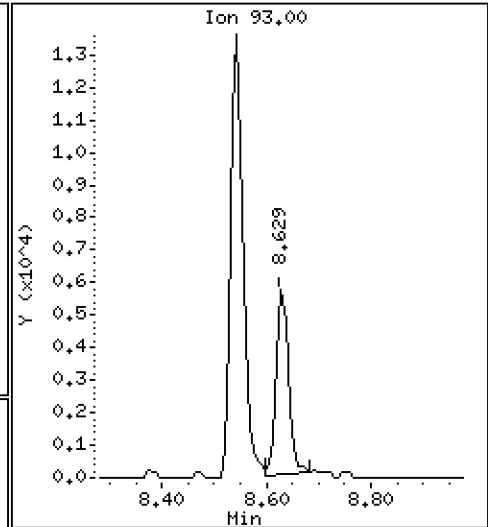
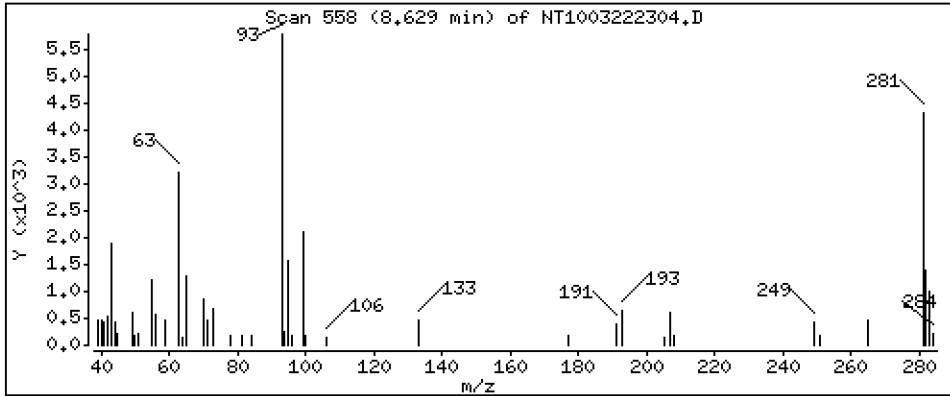
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 0.2020 ug/mL





Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

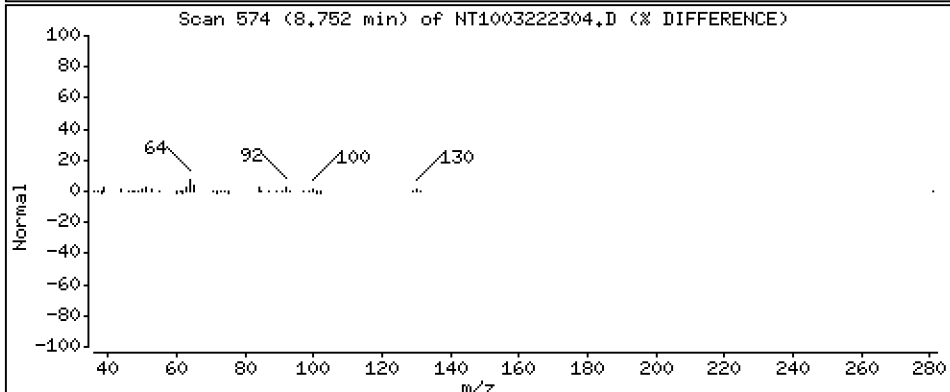
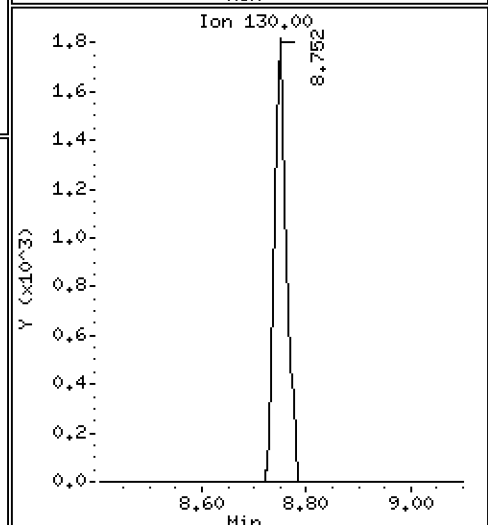
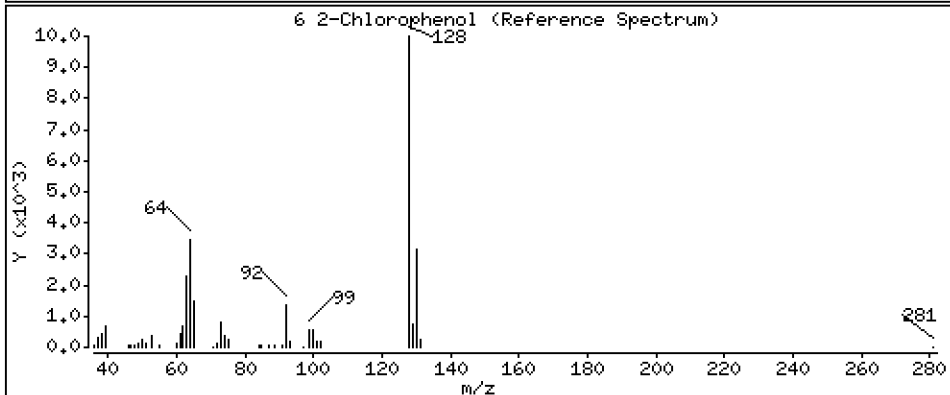
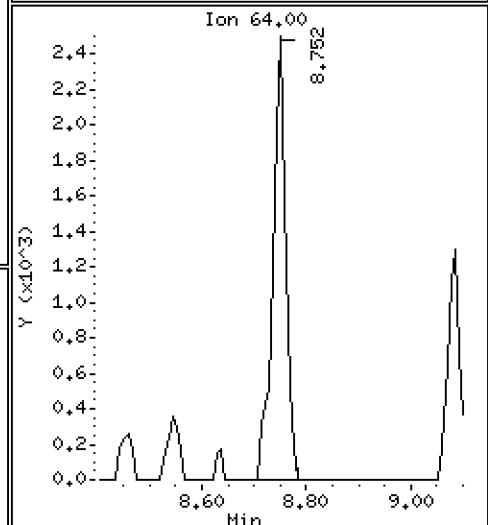
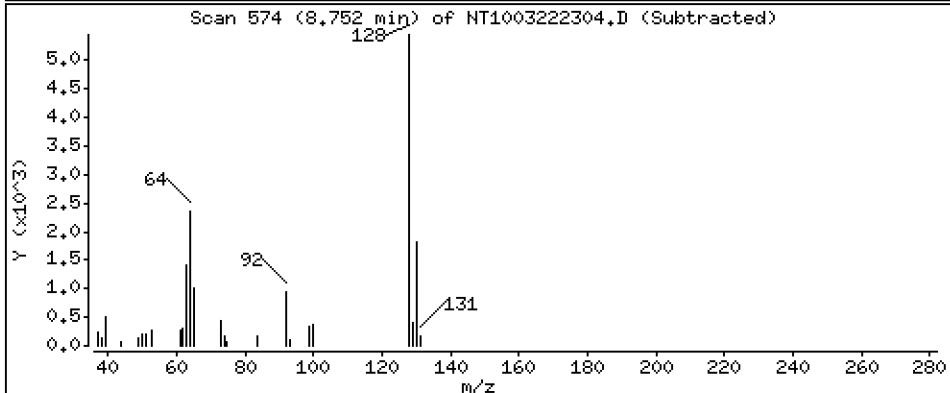
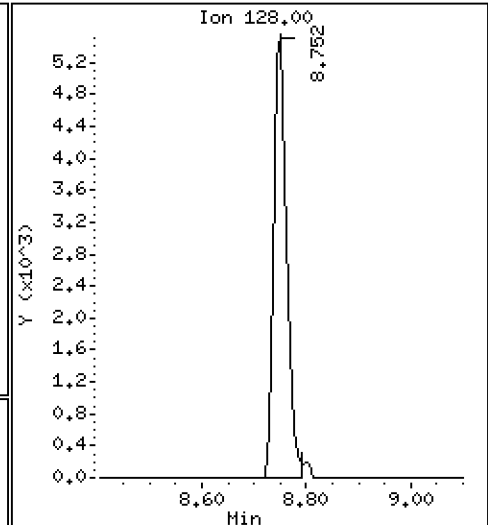
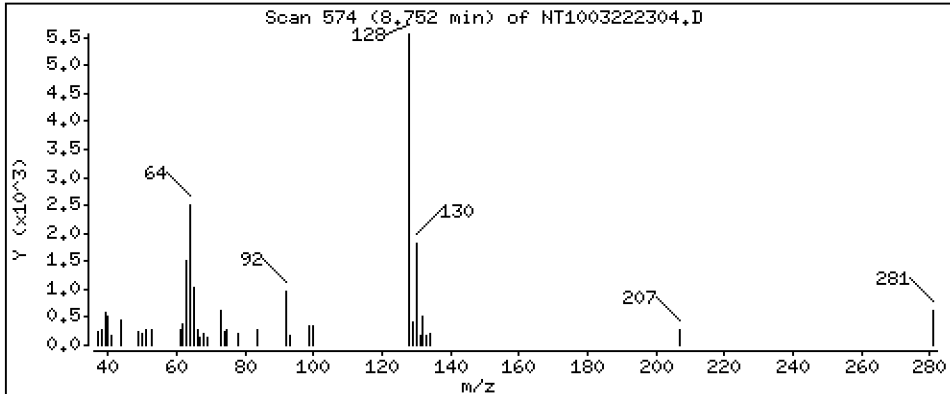
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,1878 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

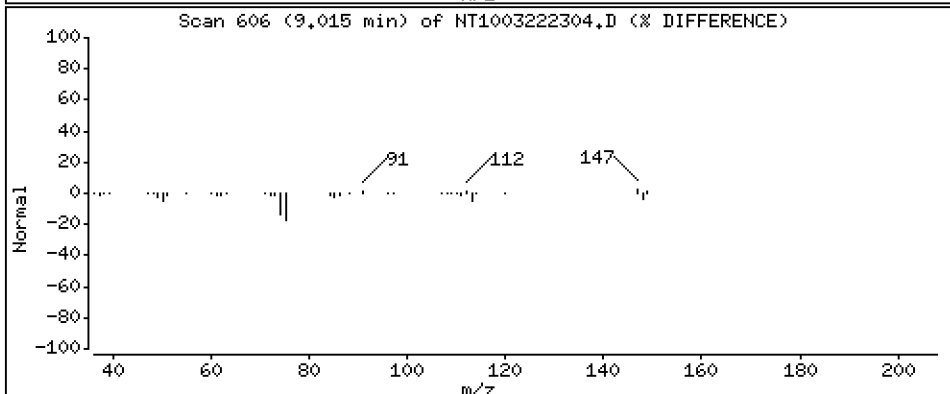
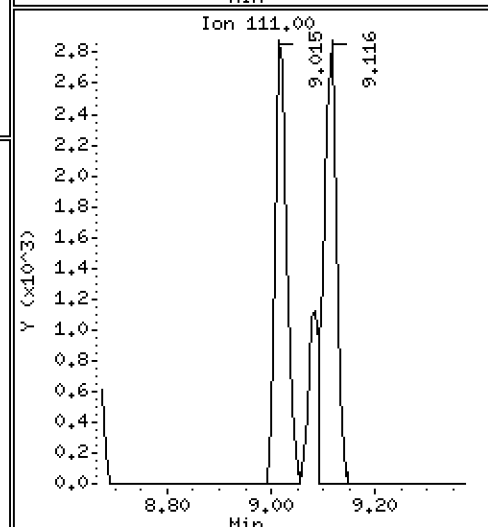
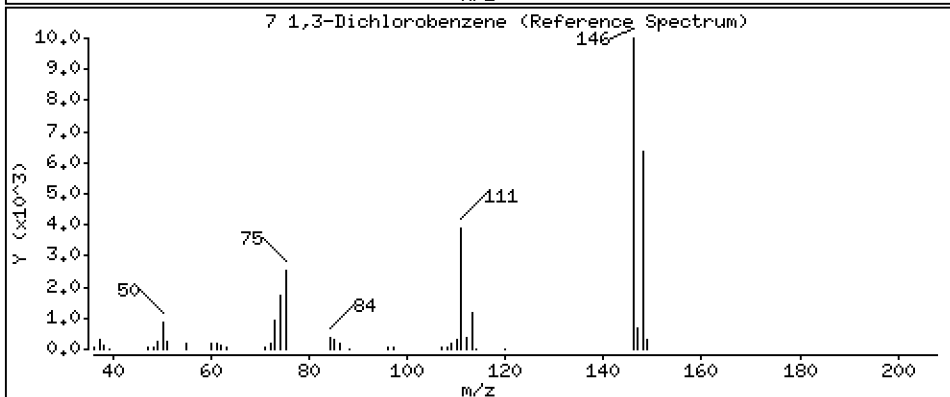
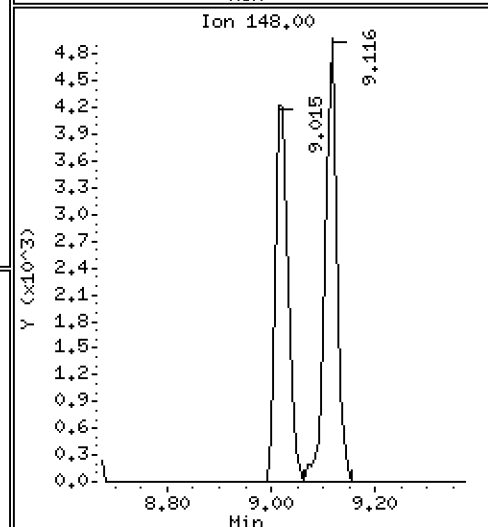
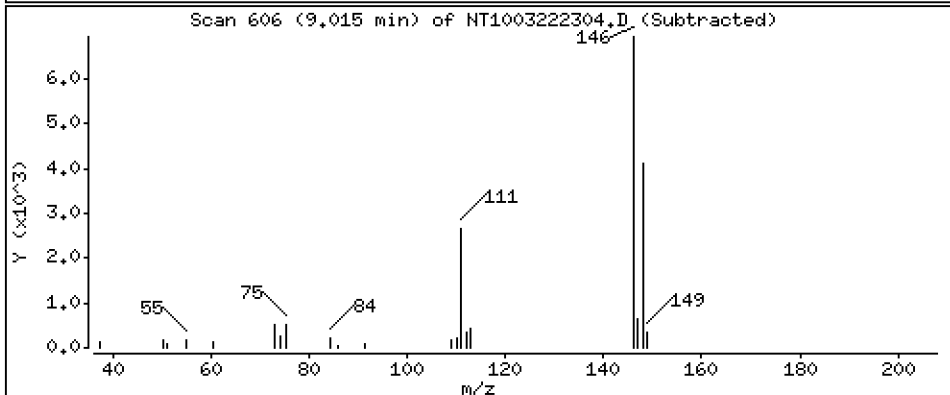
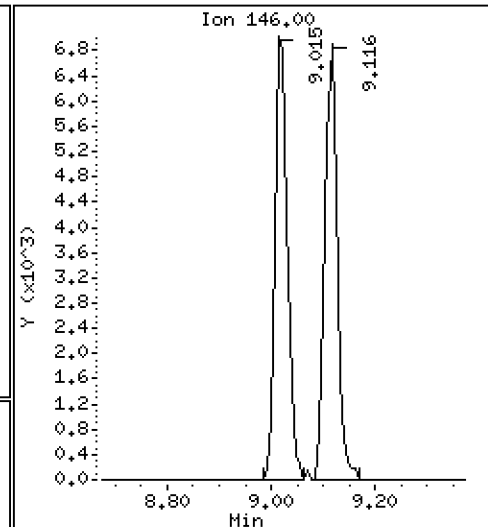
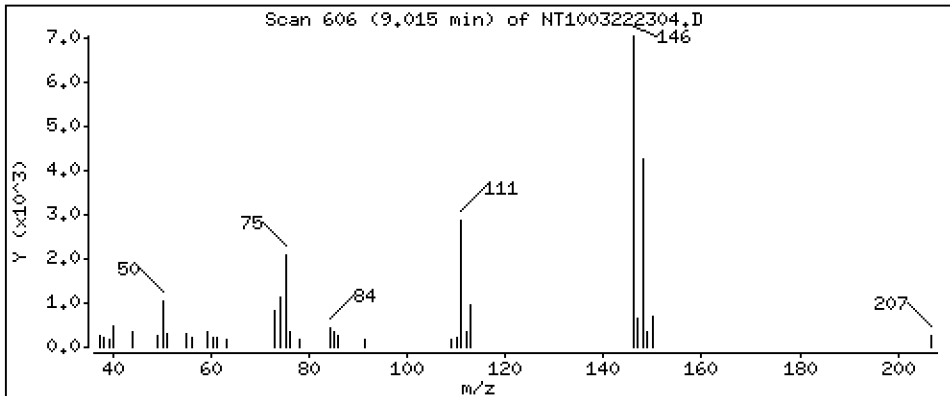
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.2192 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

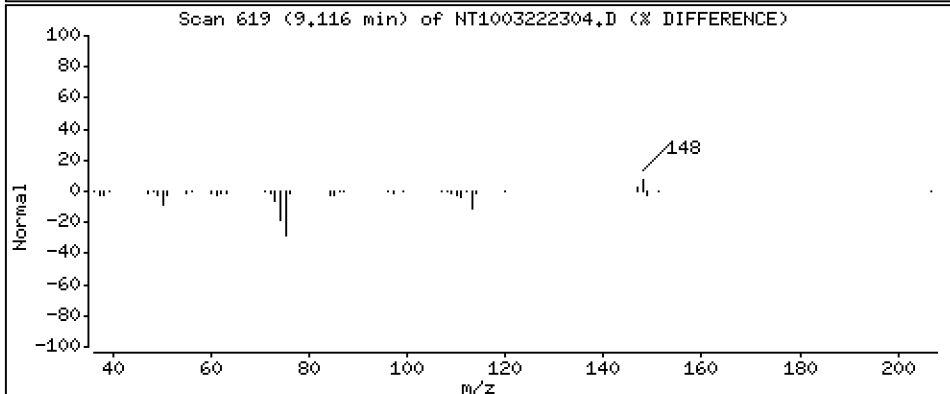
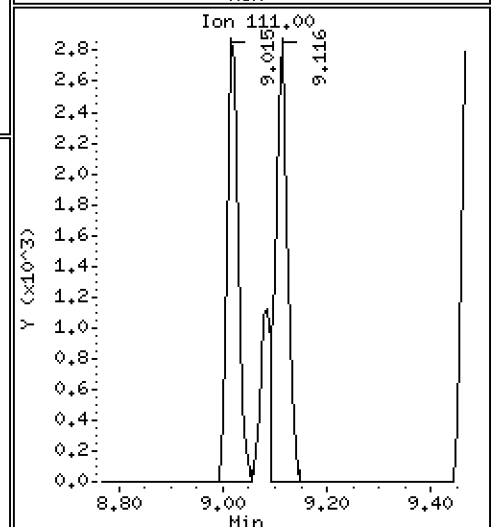
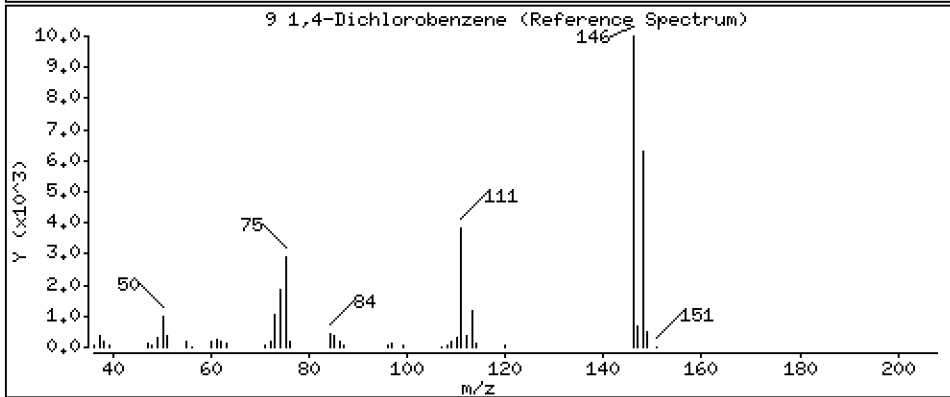
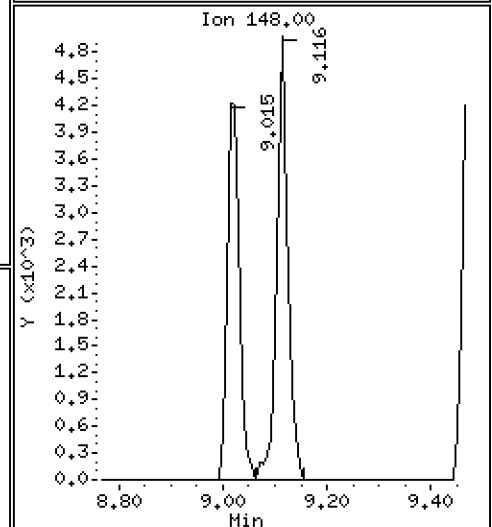
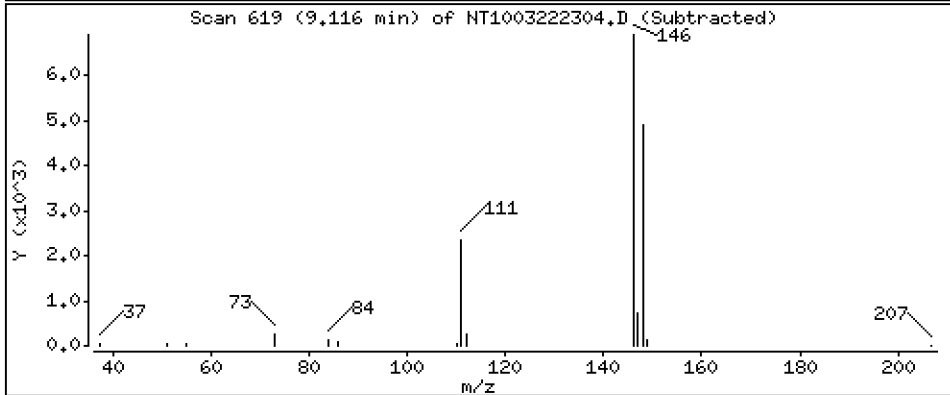
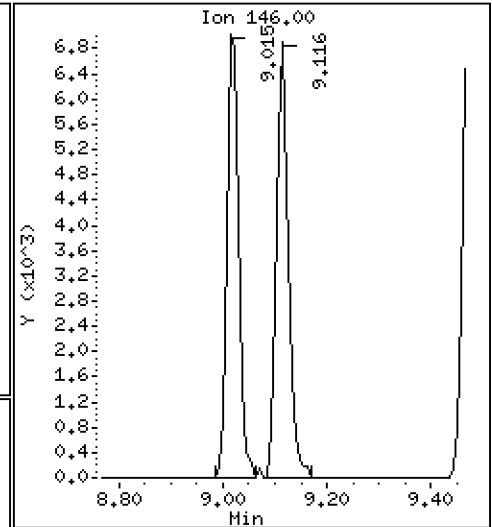
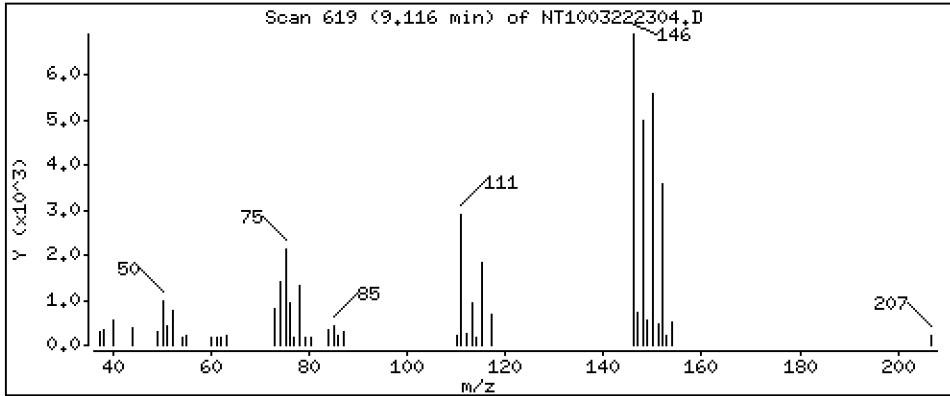
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 0.2121 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

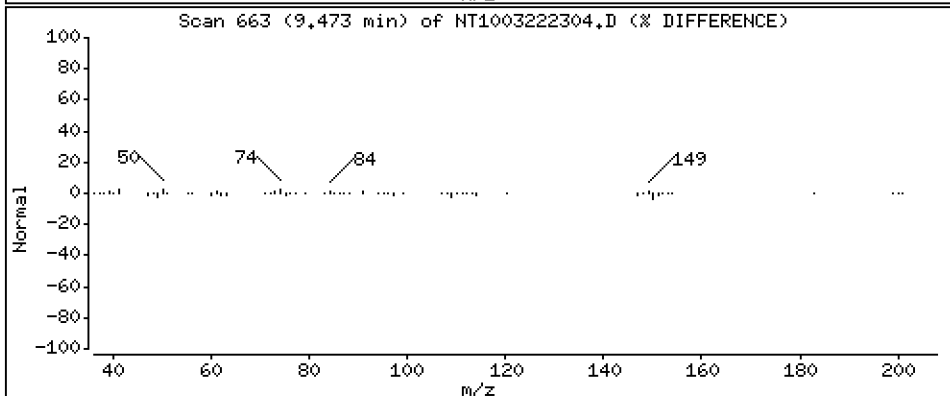
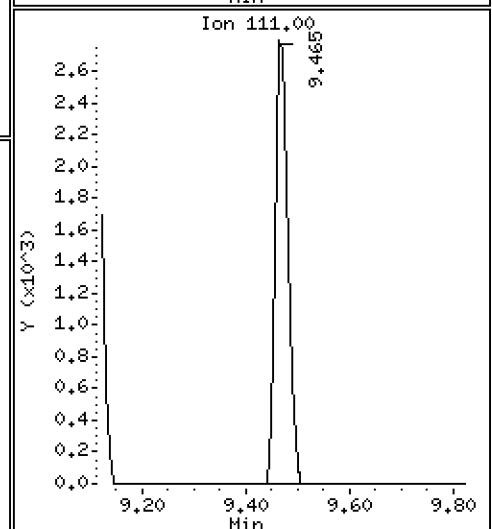
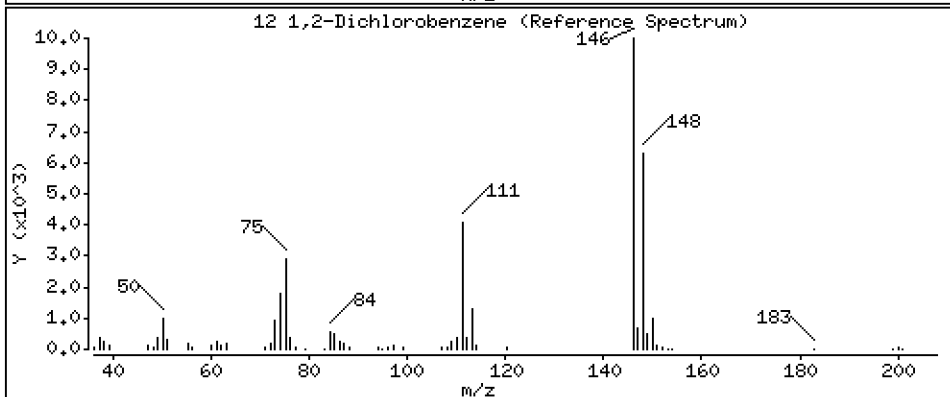
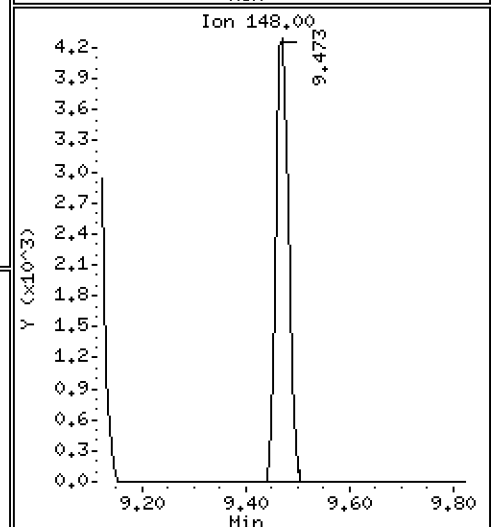
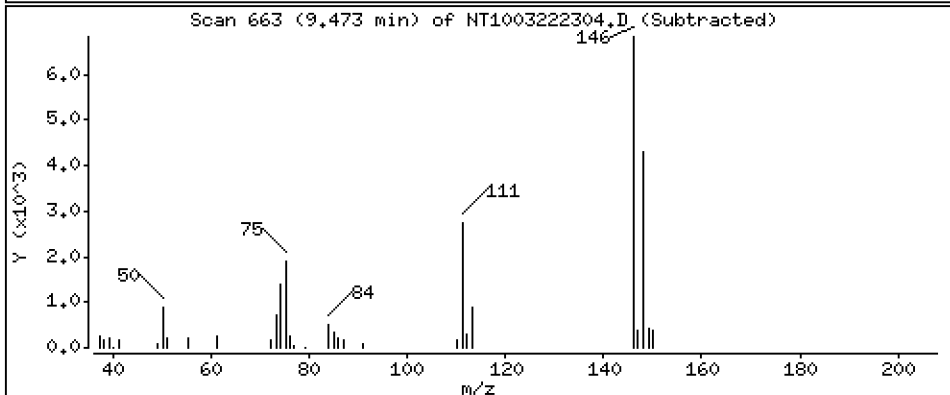
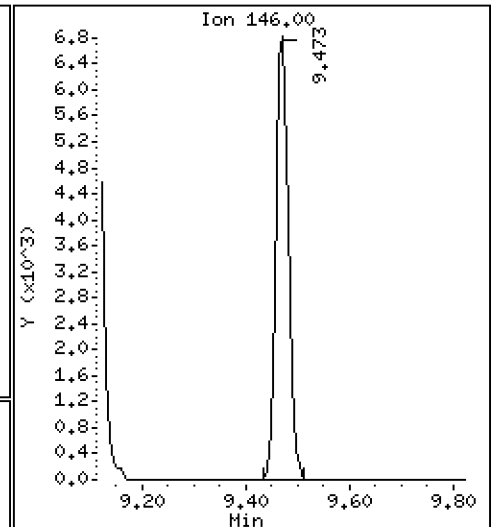
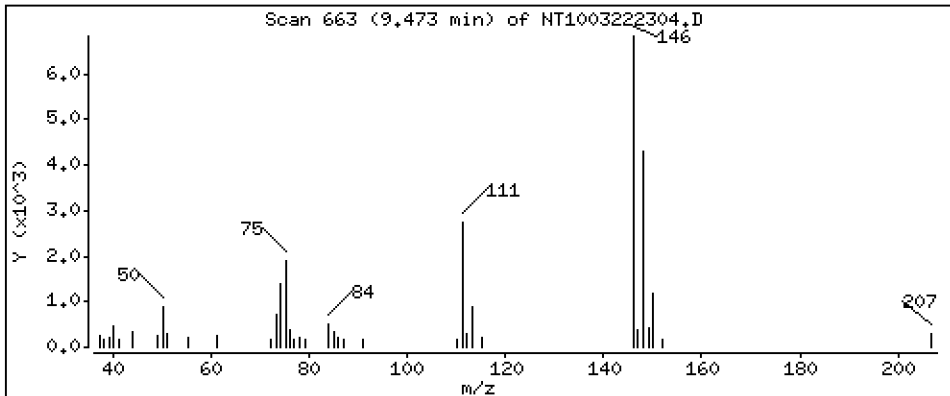
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2148 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

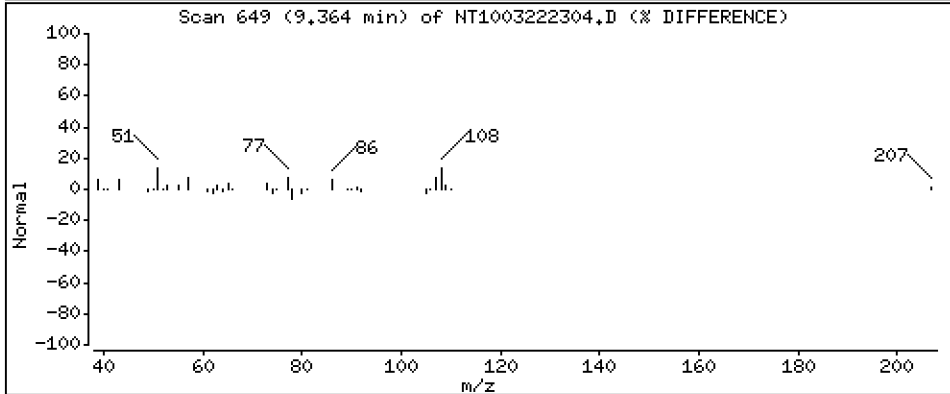
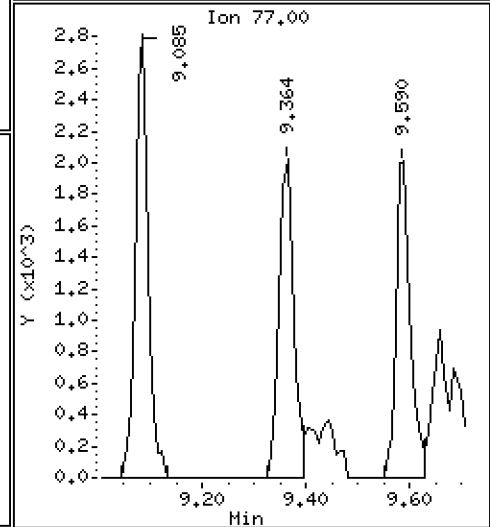
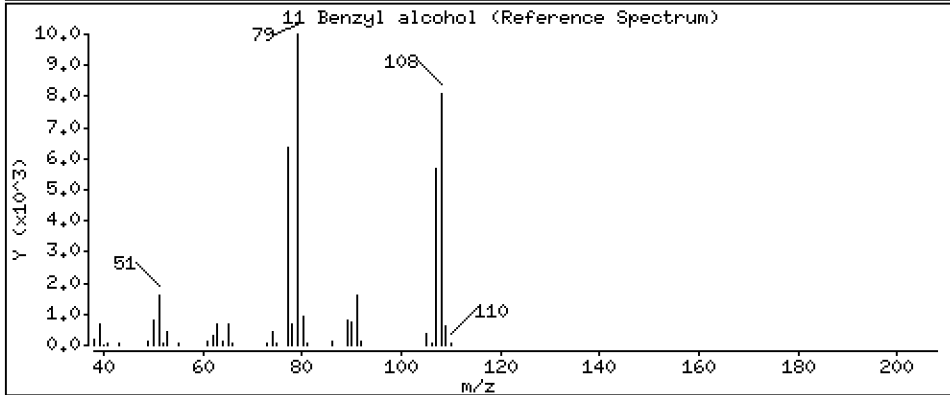
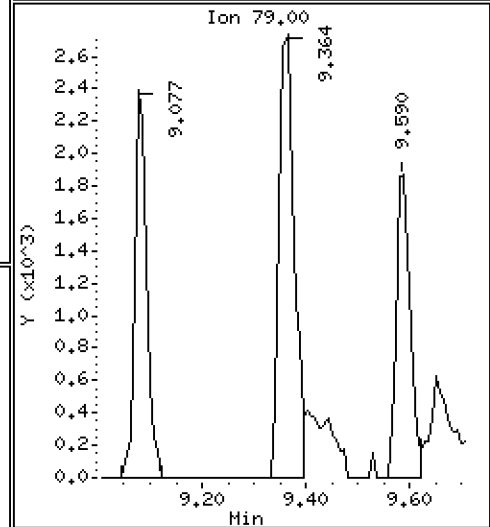
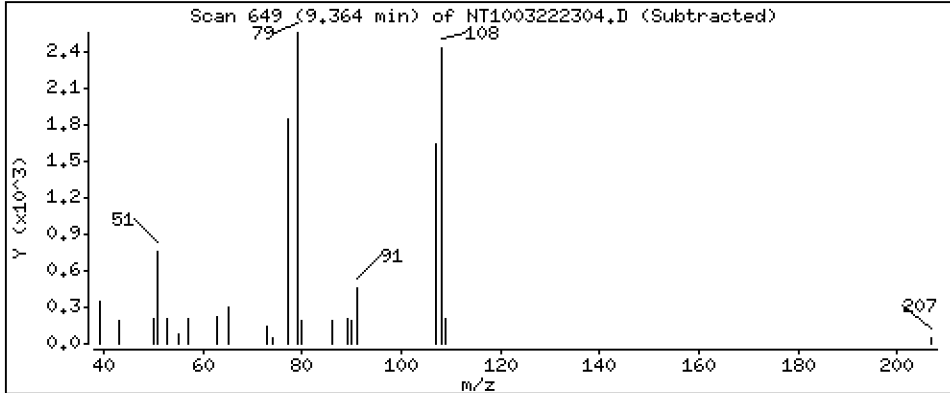
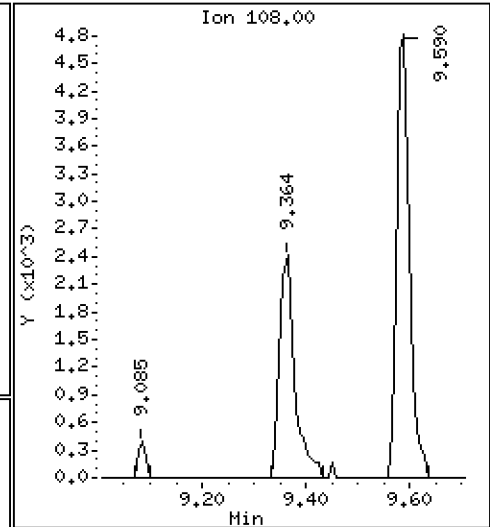
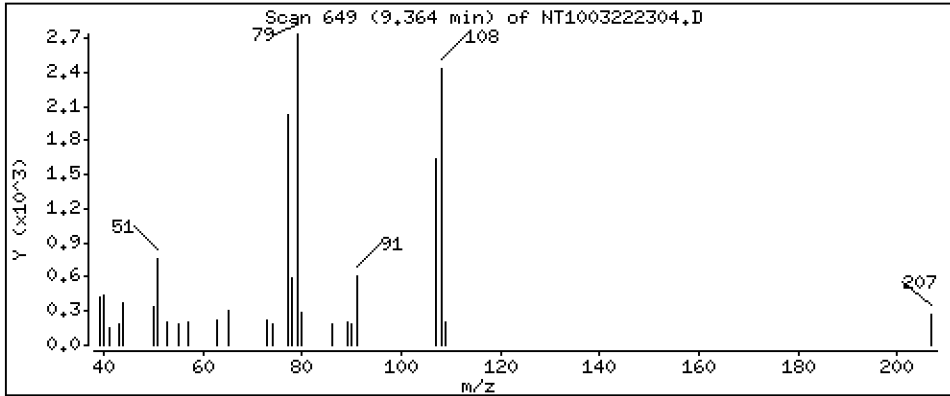
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1733 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

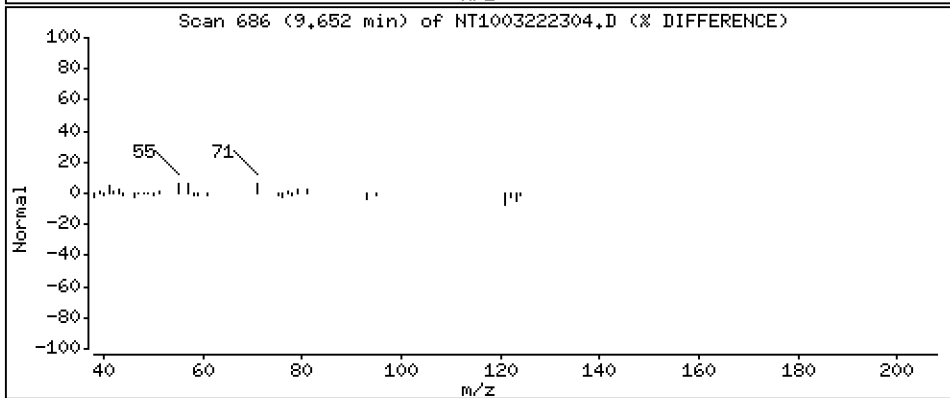
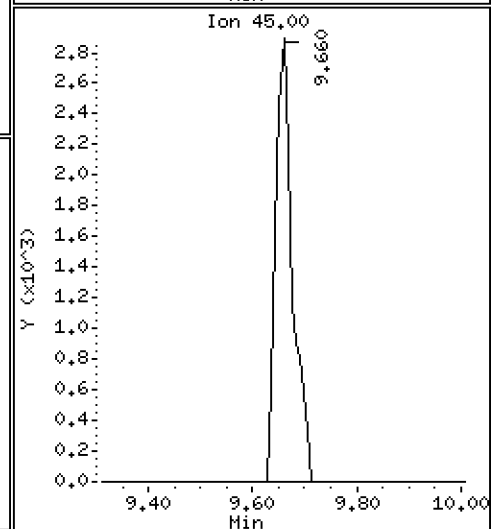
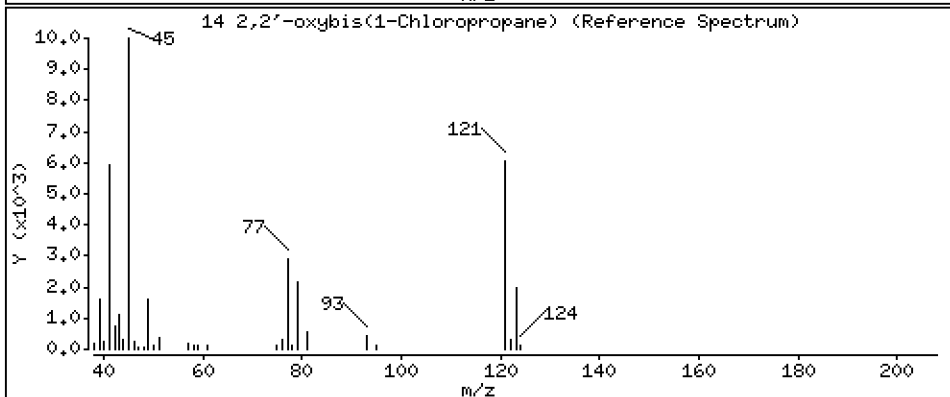
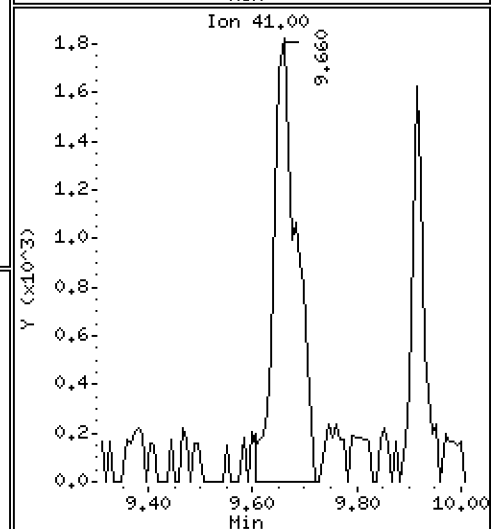
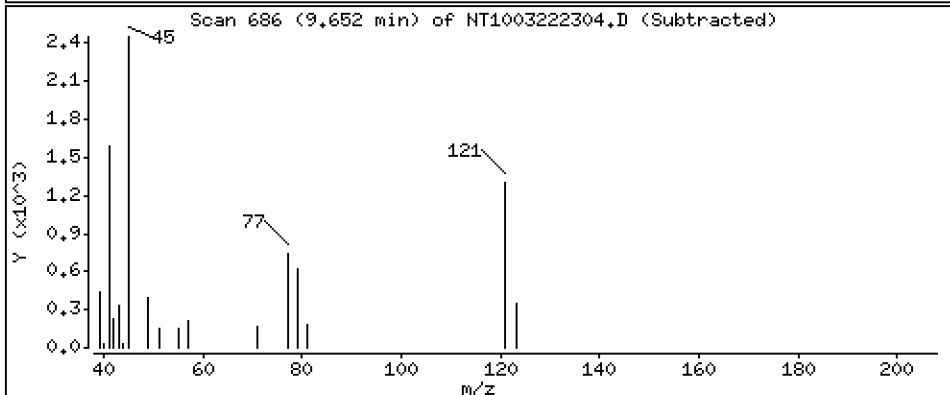
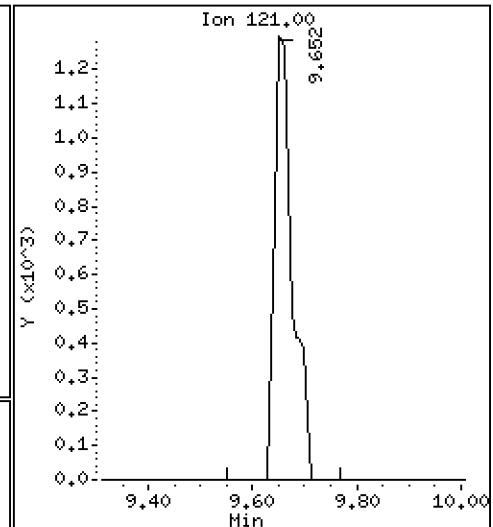
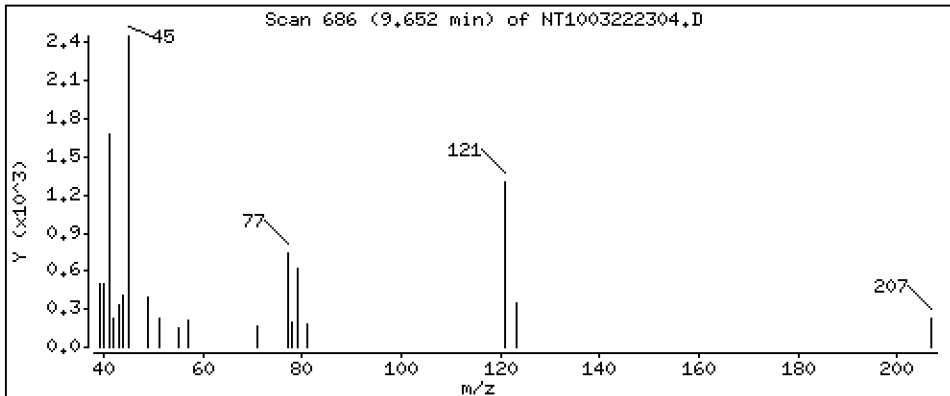
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 0.2039 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

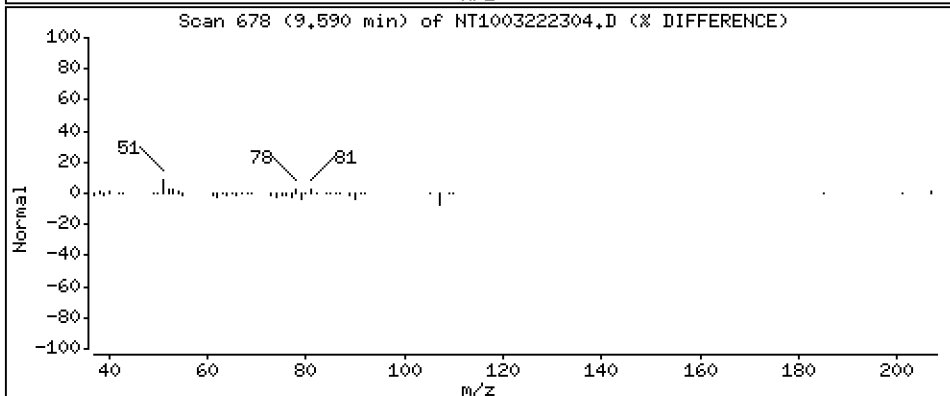
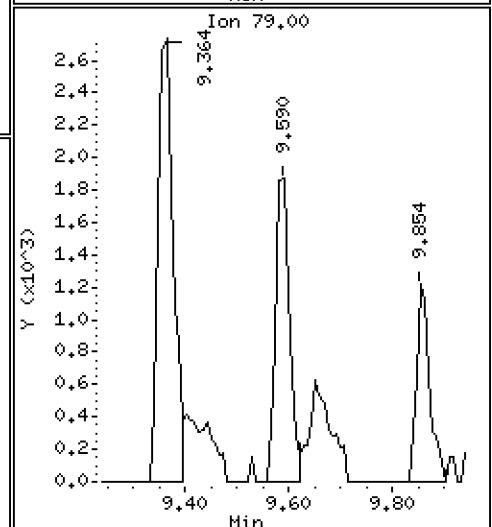
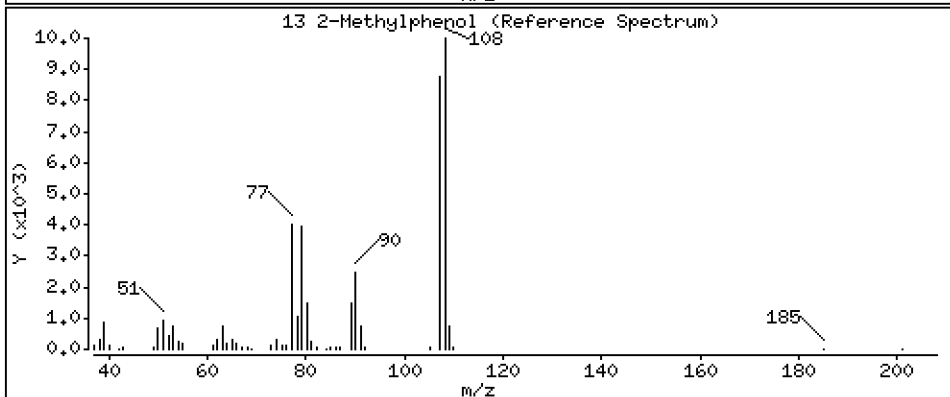
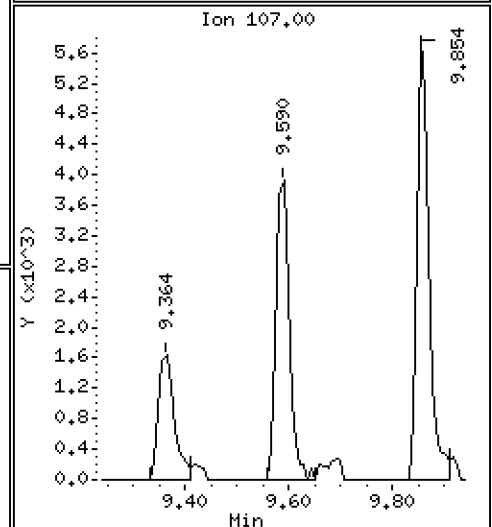
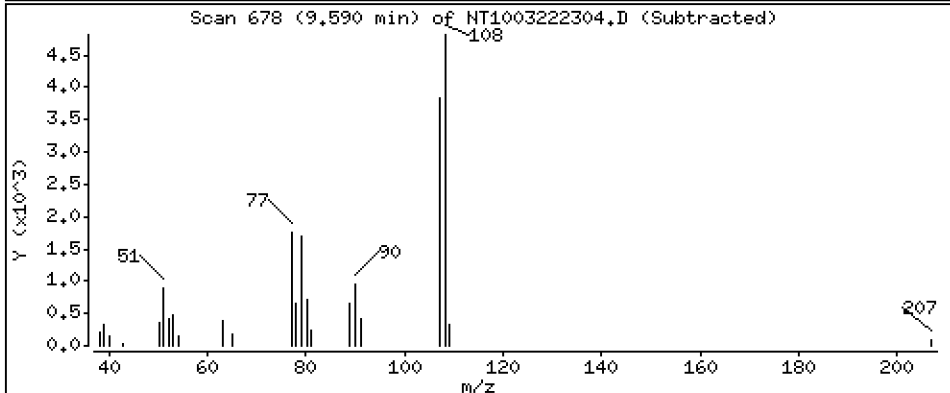
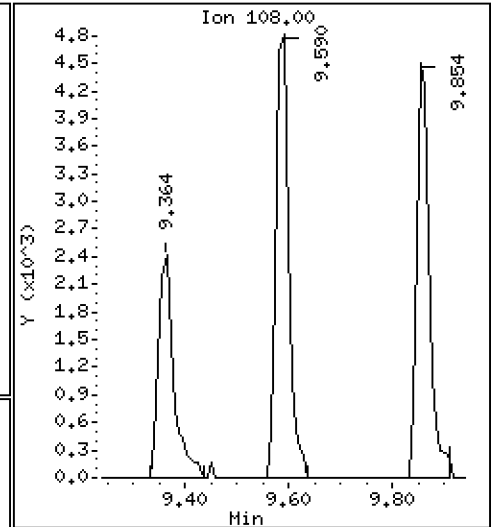
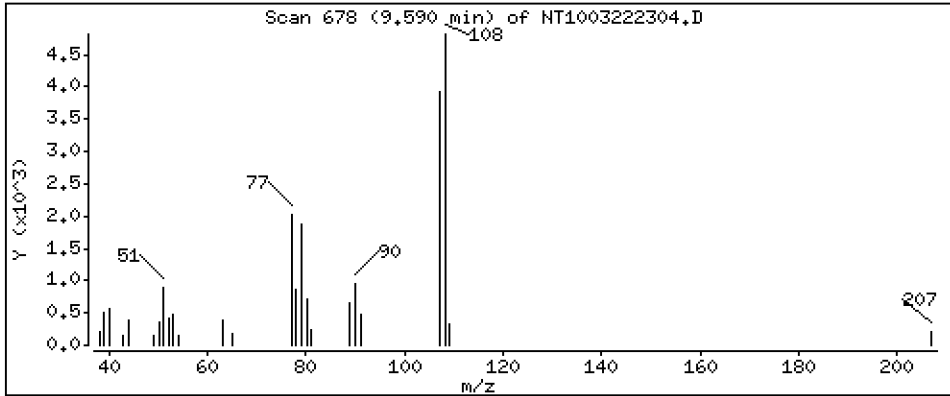
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 0,1827 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

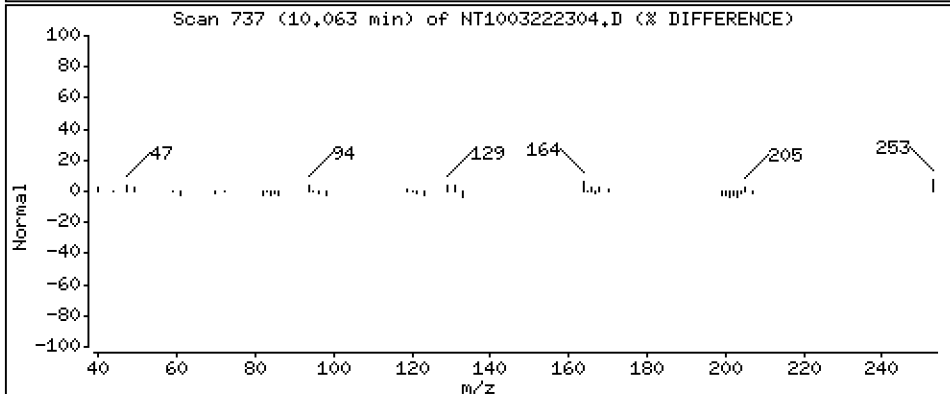
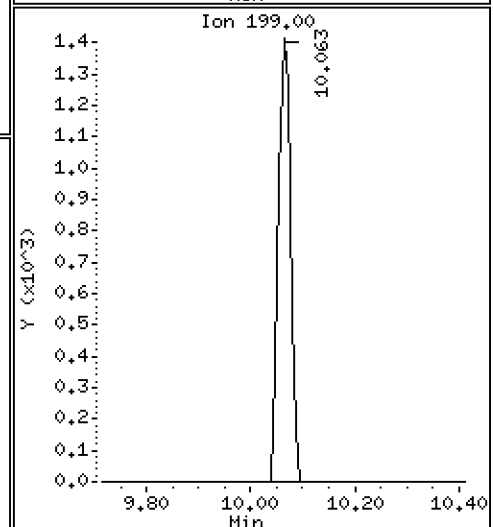
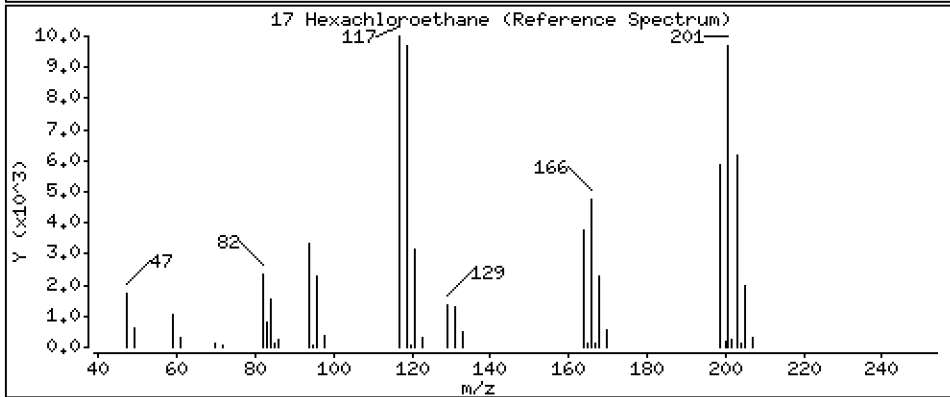
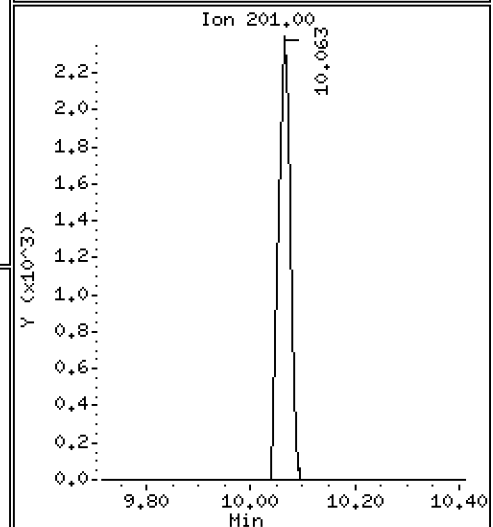
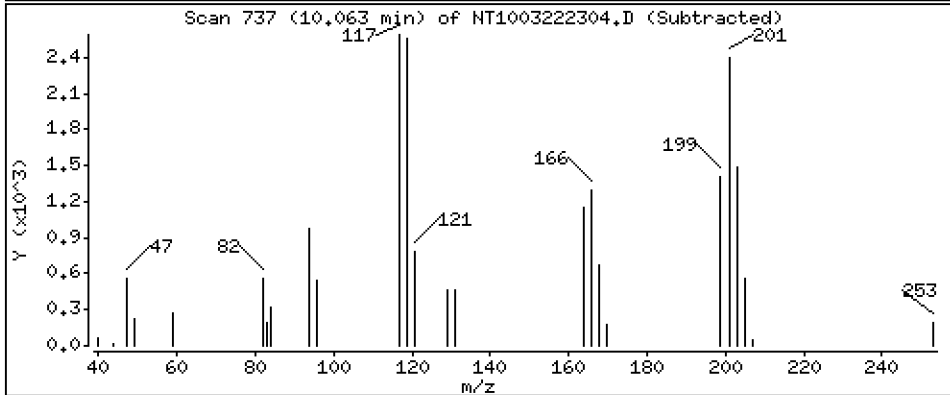
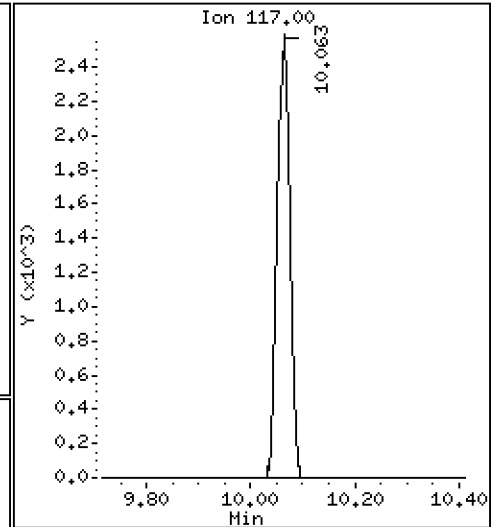
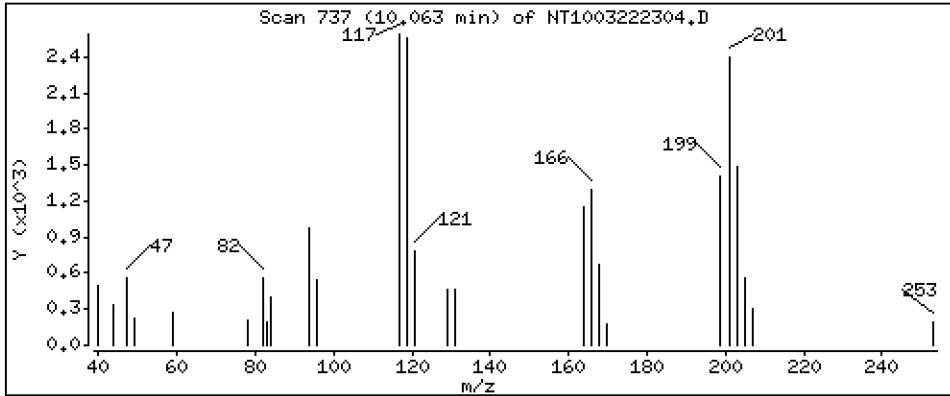
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,1954 ug/mL





Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

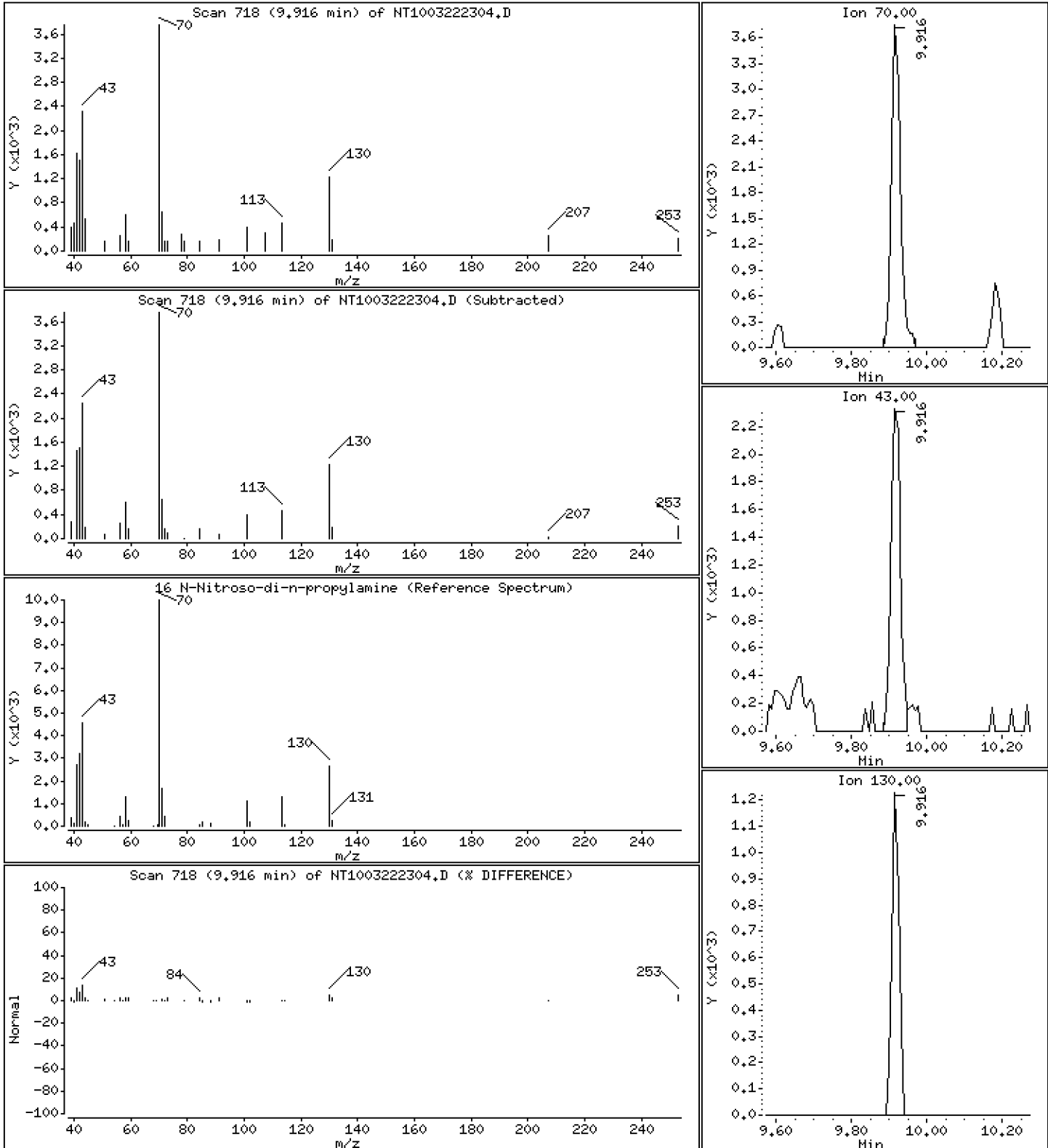
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,1733 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

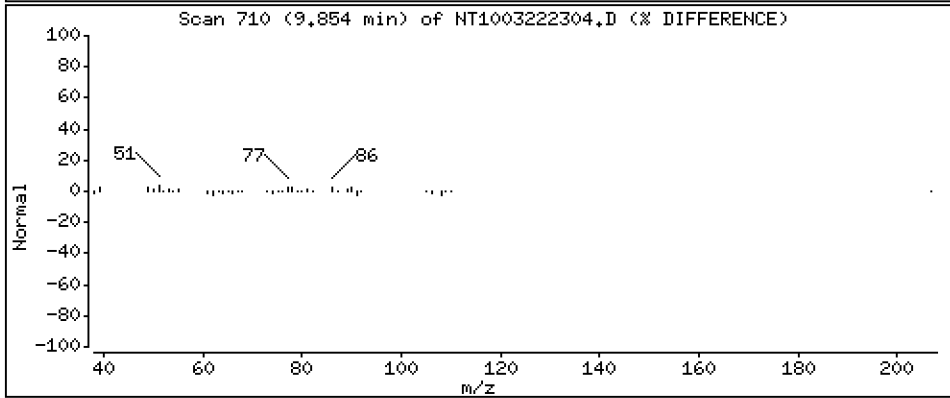
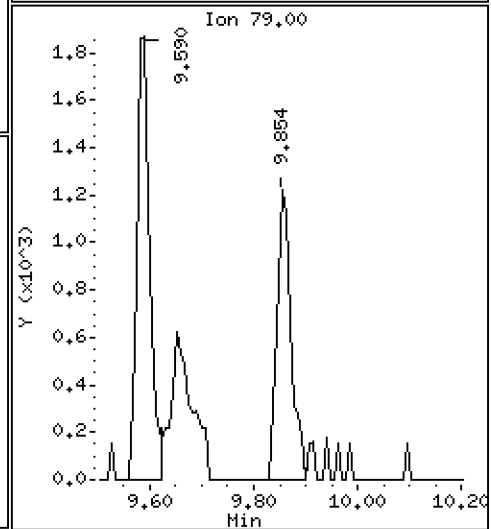
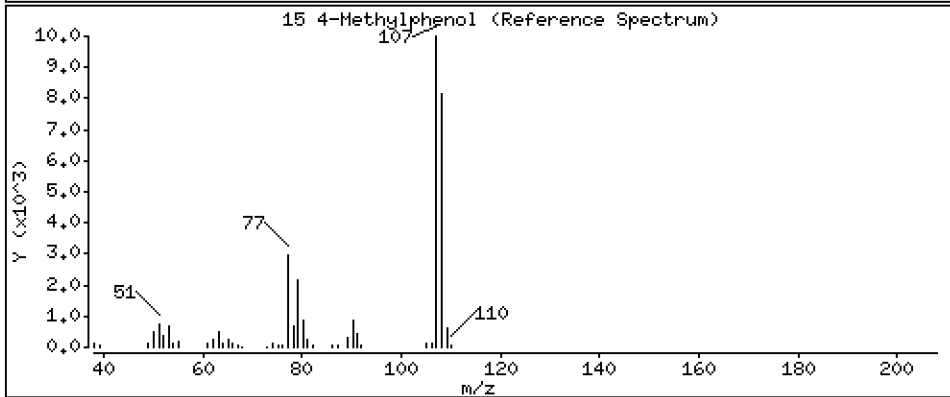
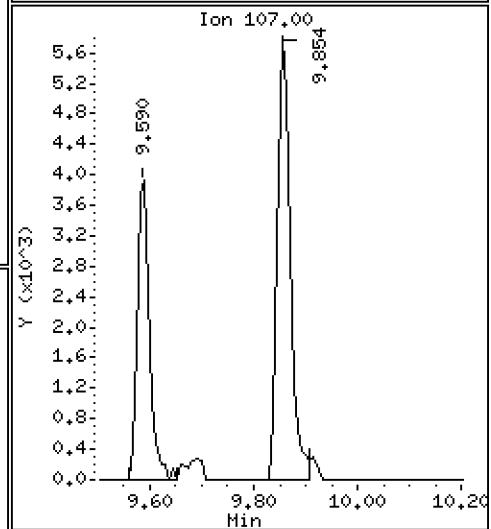
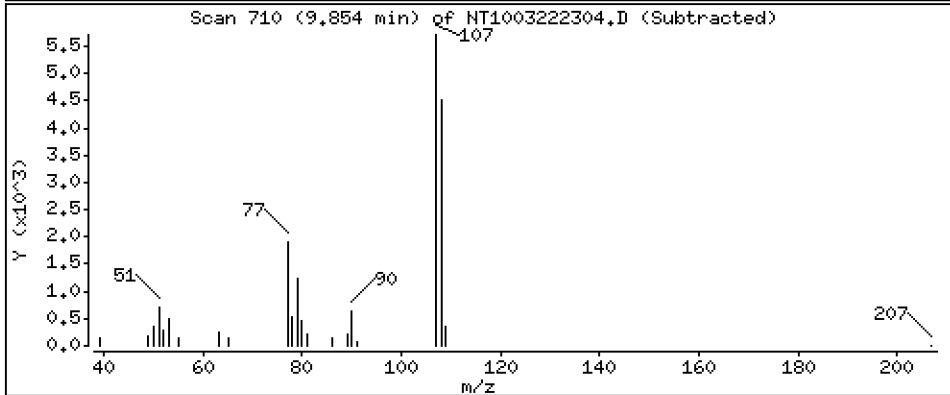
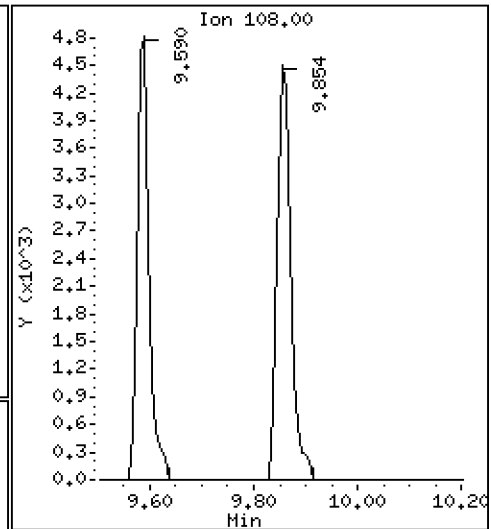
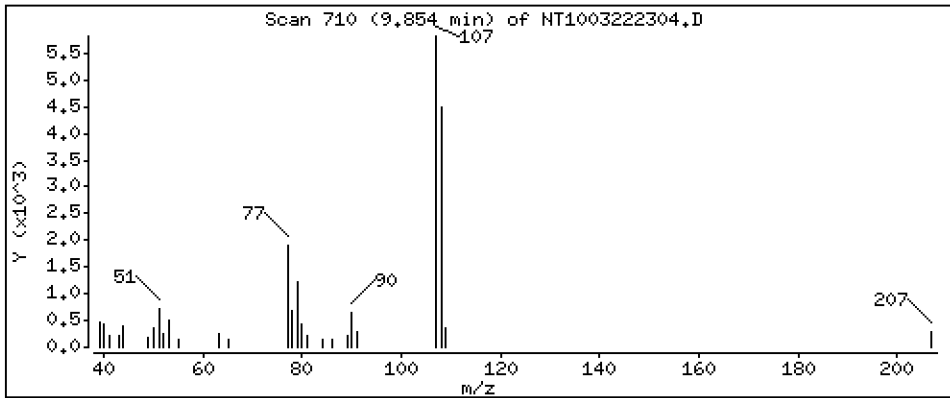
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,1770 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

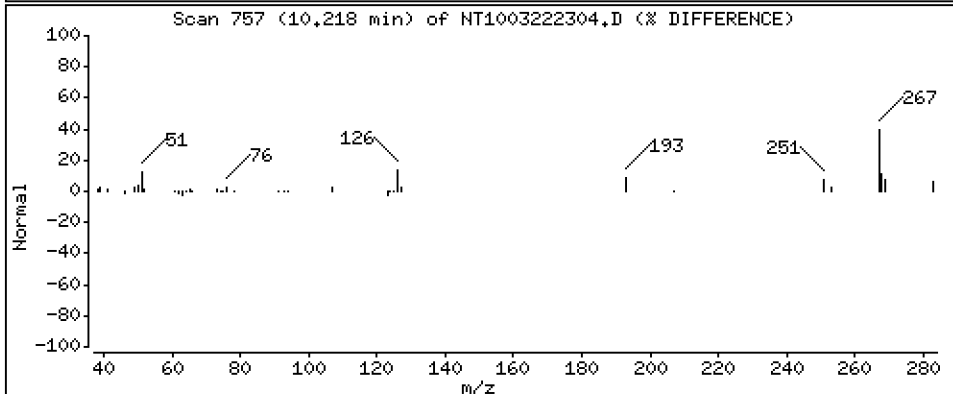
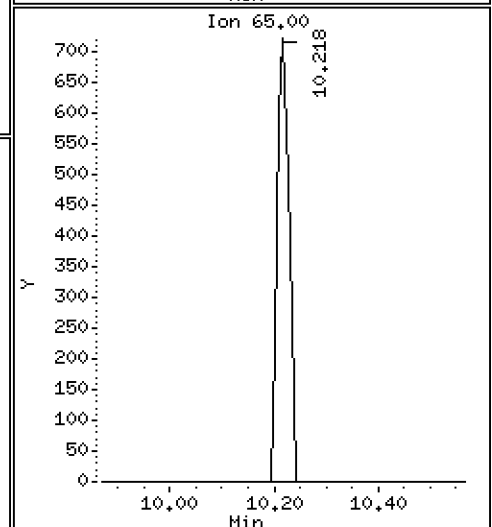
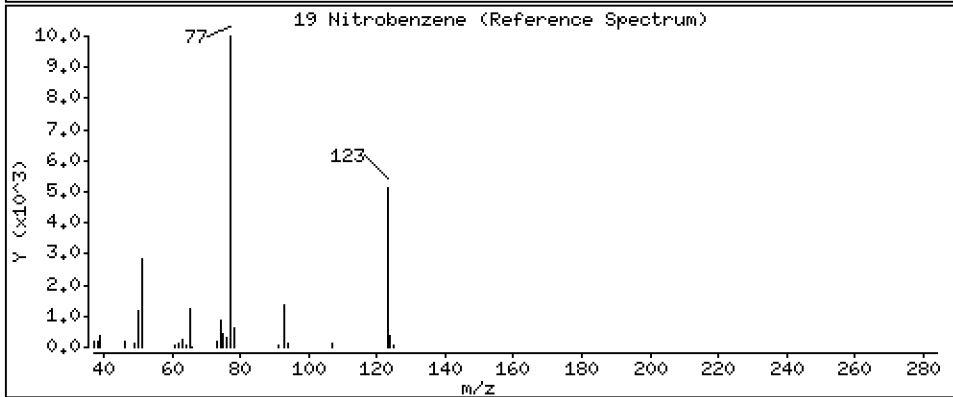
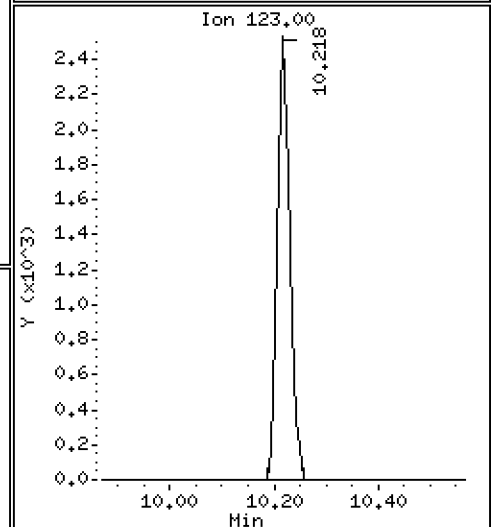
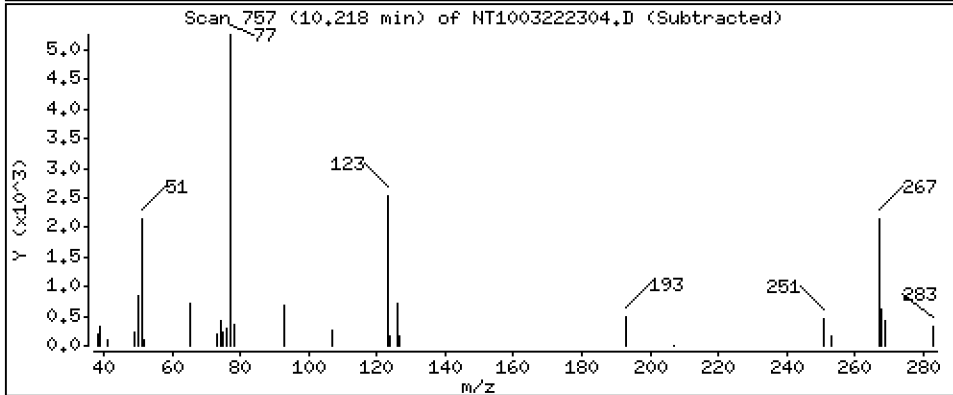
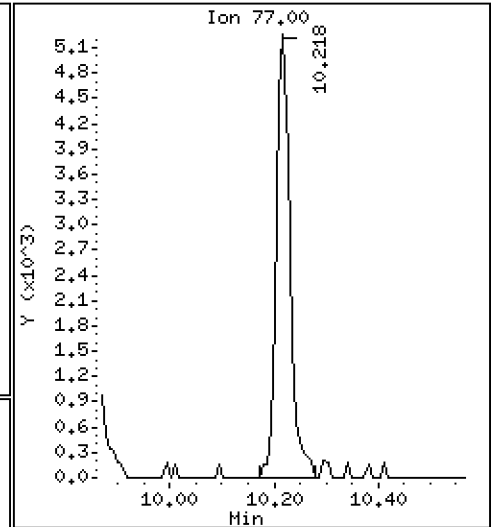
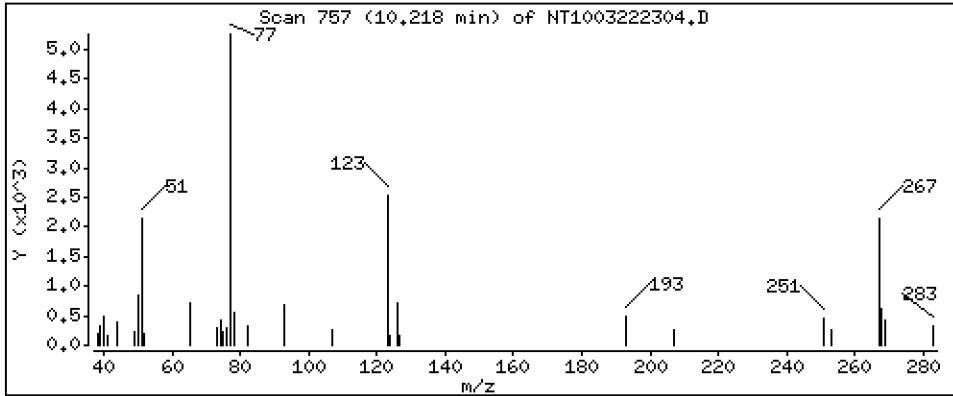
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,1853 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

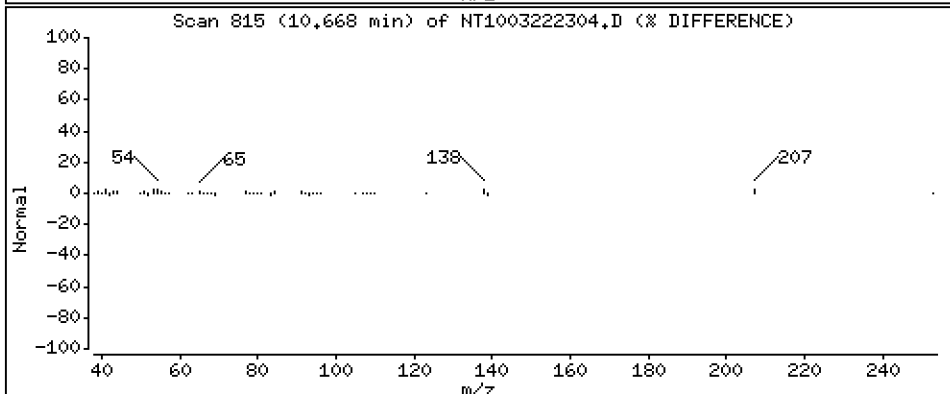
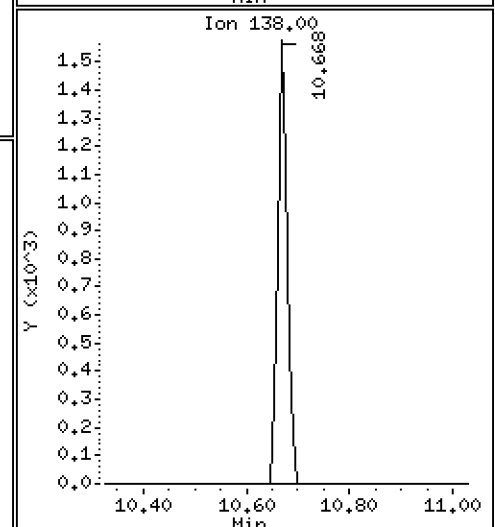
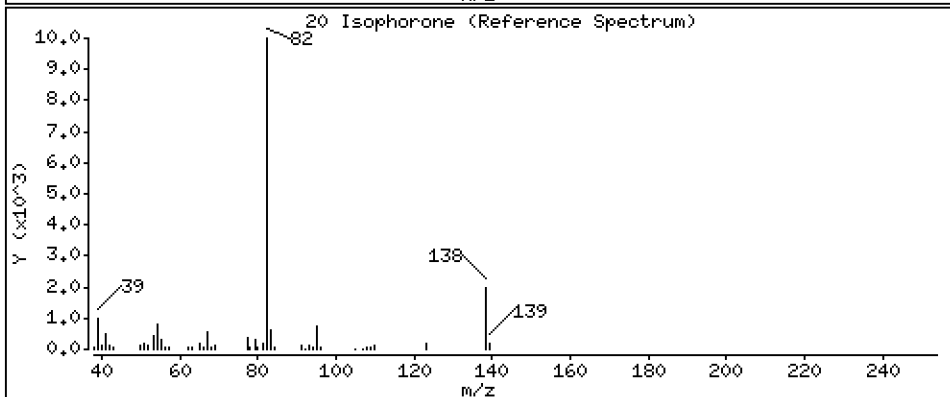
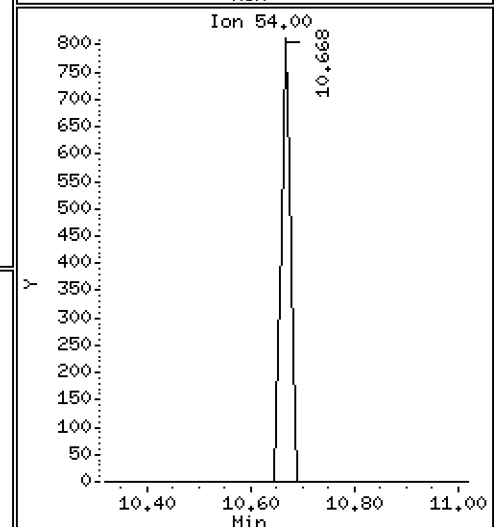
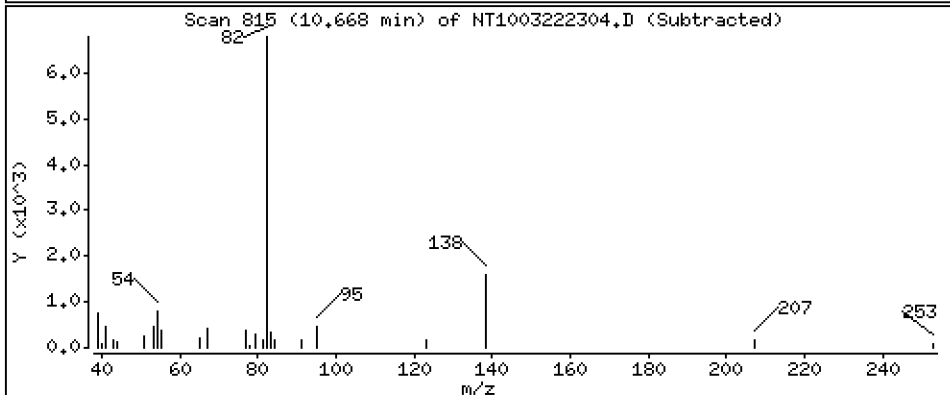
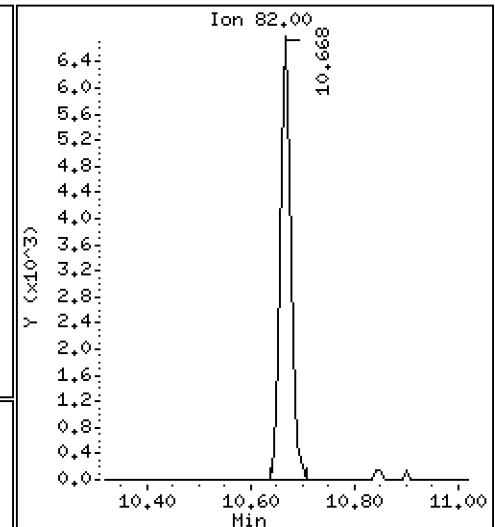
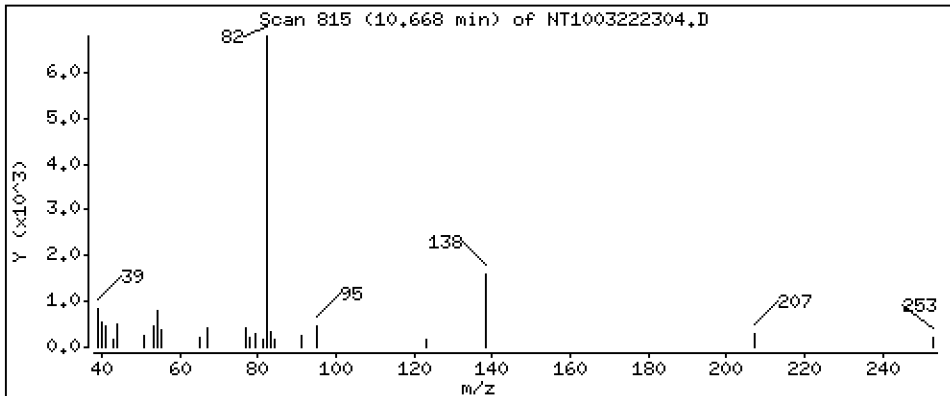
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.1565 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

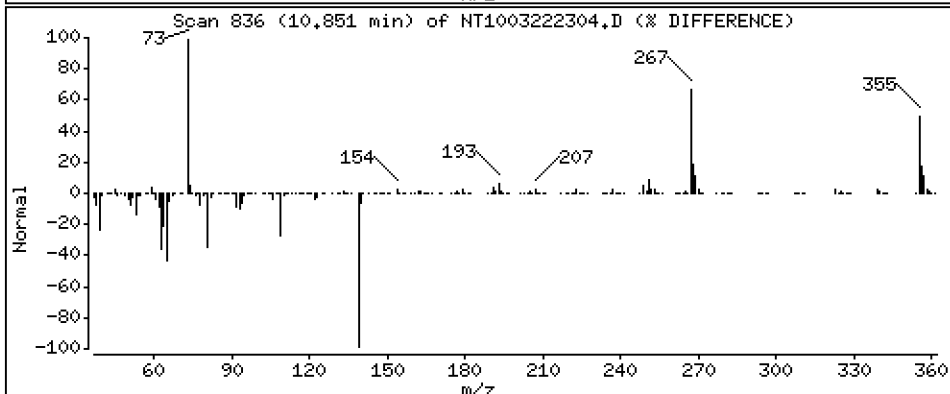
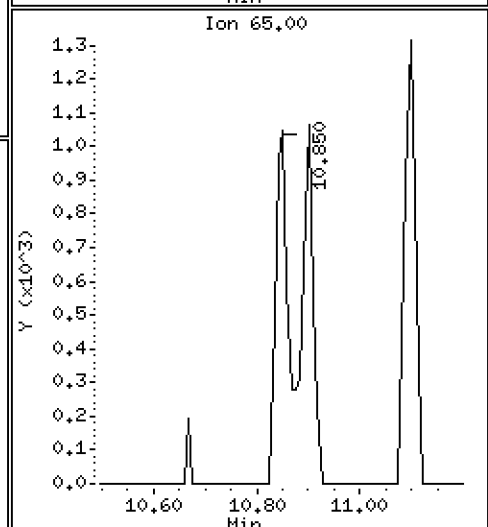
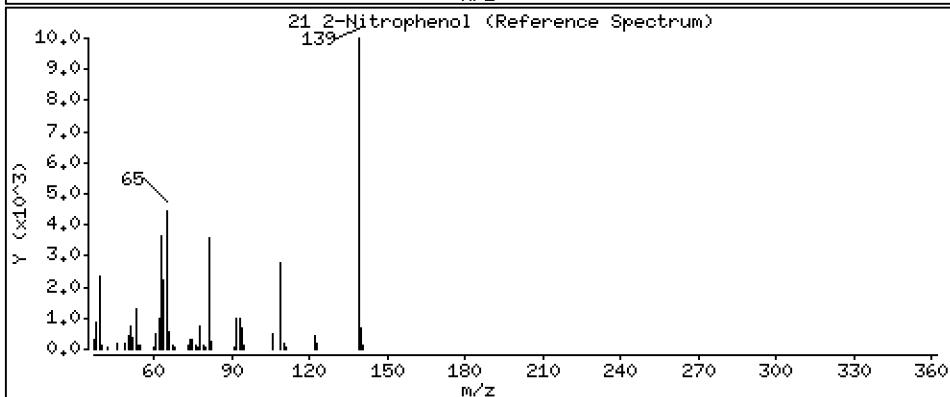
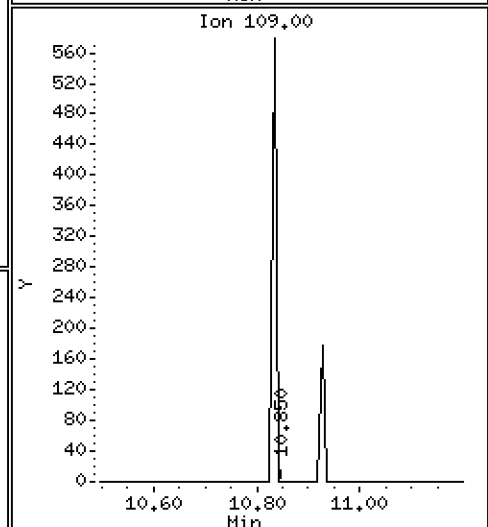
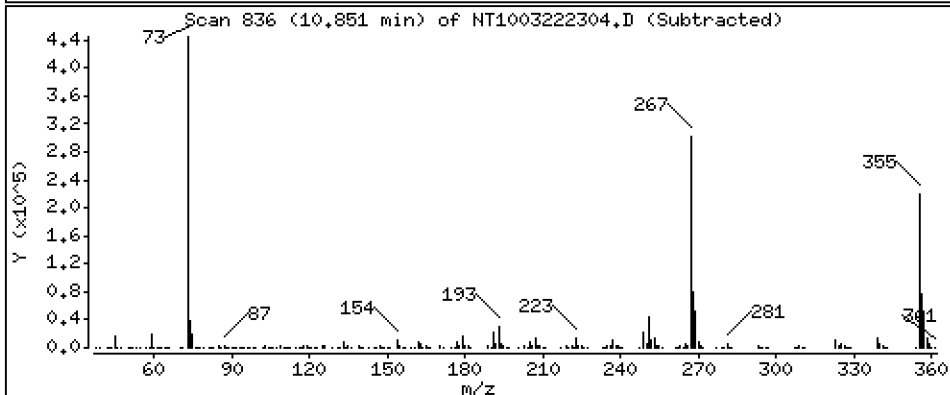
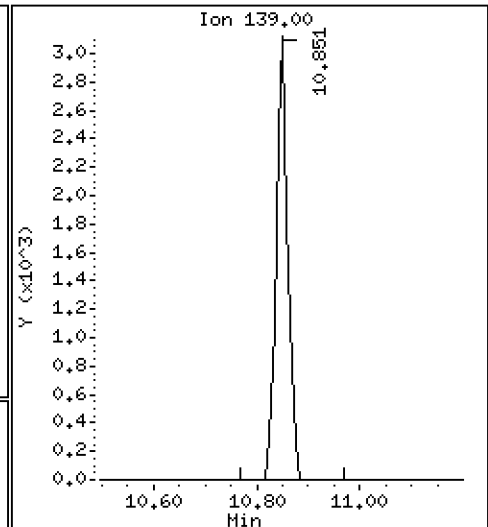
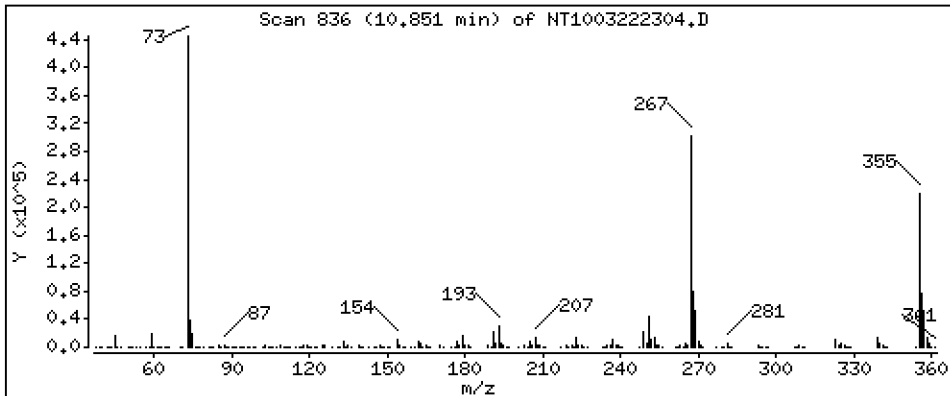
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,2201 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

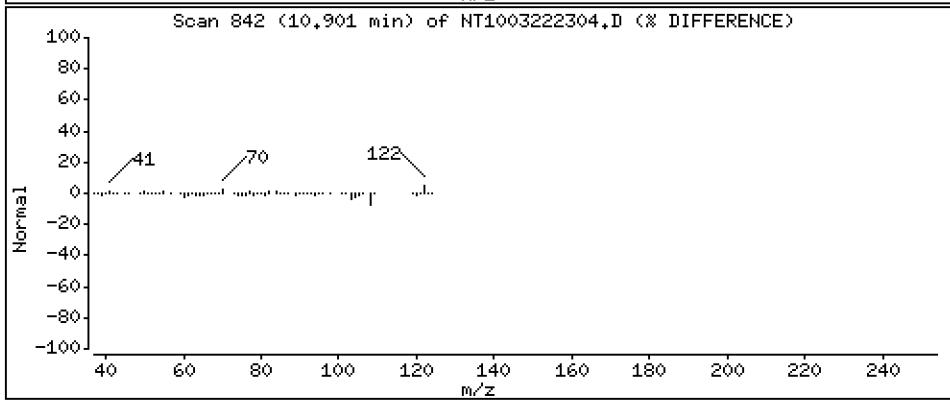
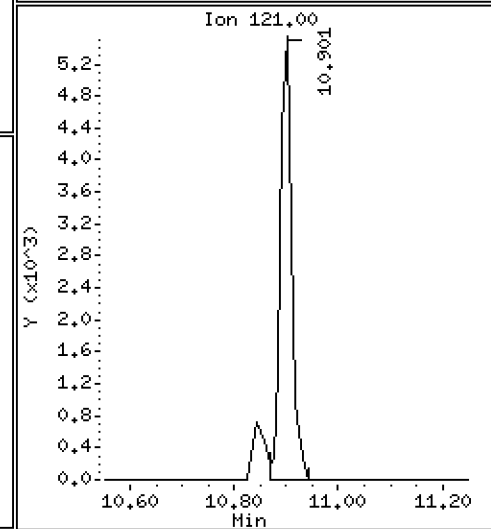
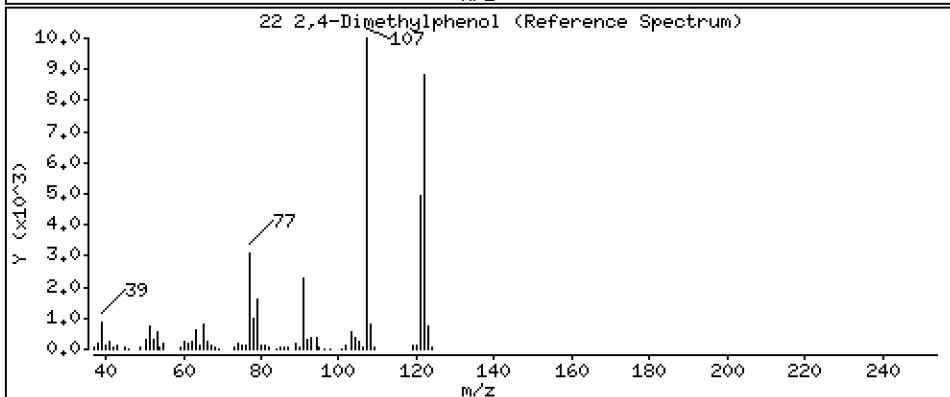
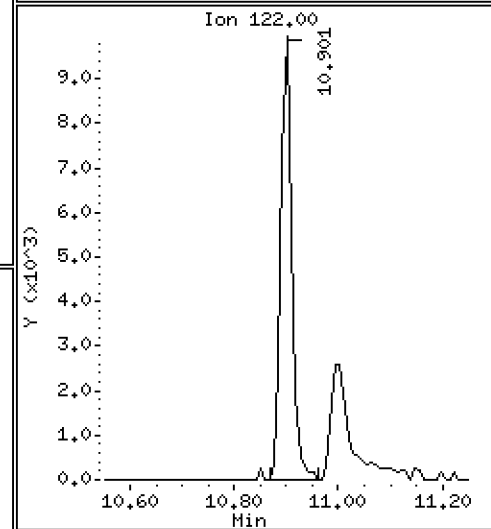
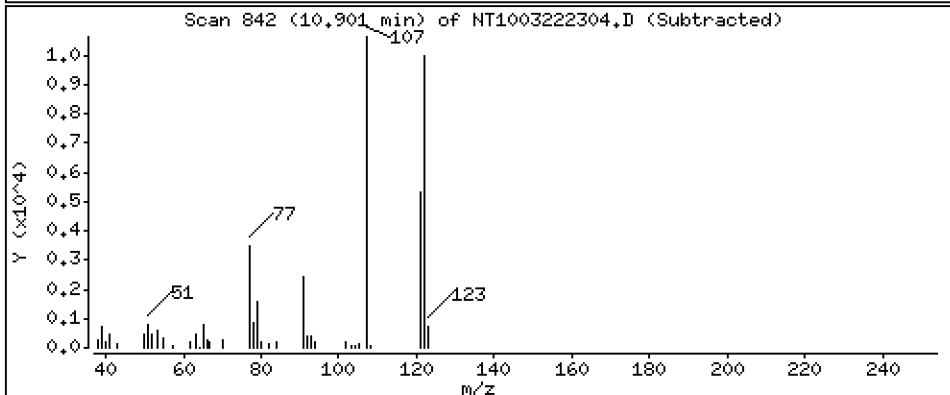
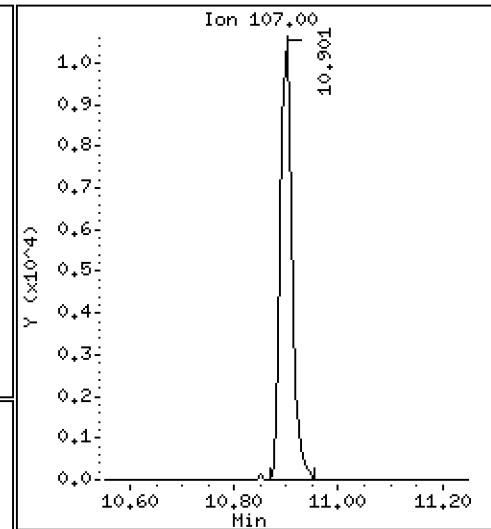
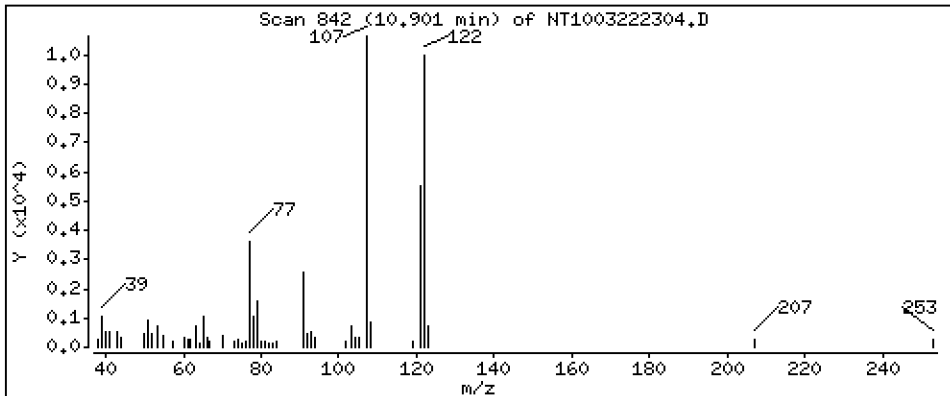
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,3595 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

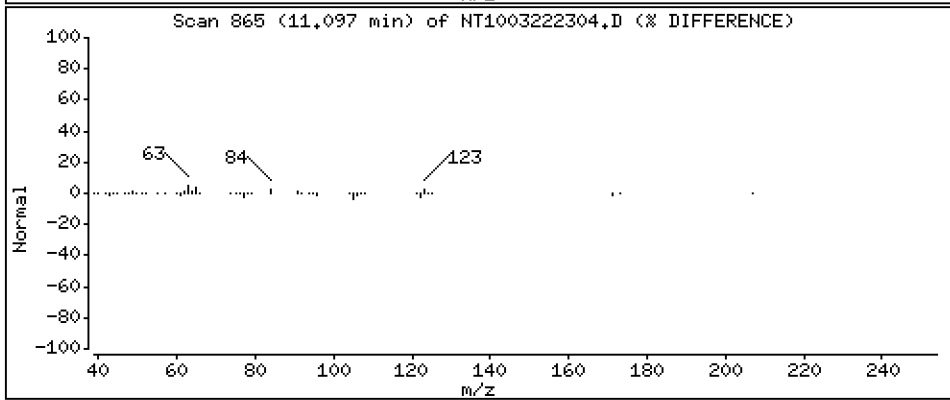
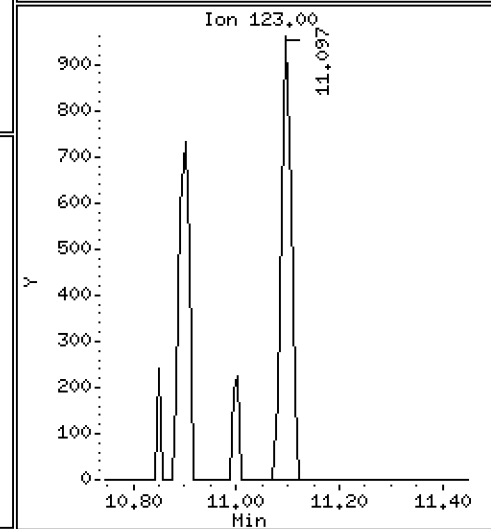
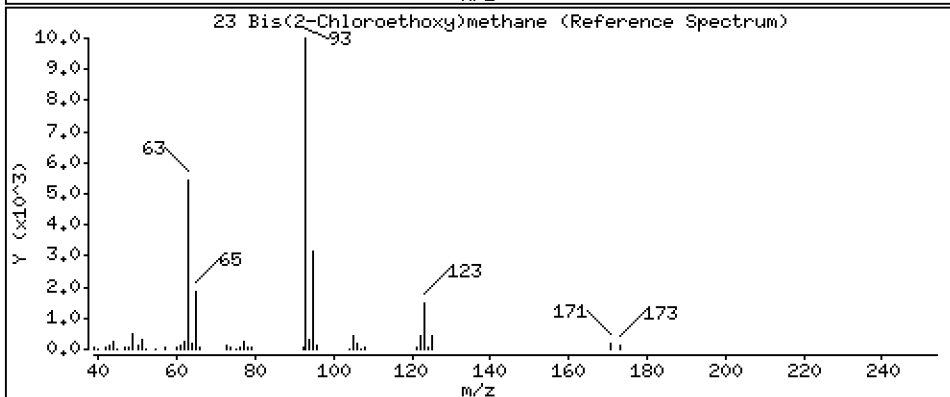
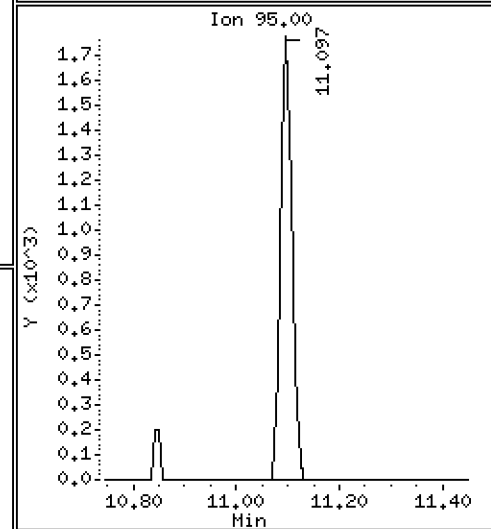
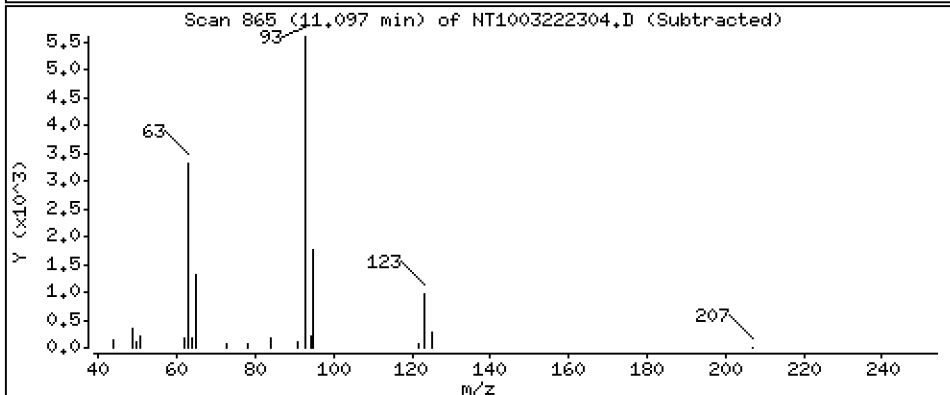
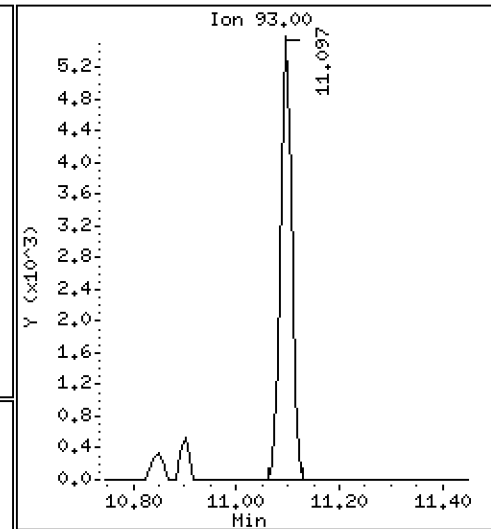
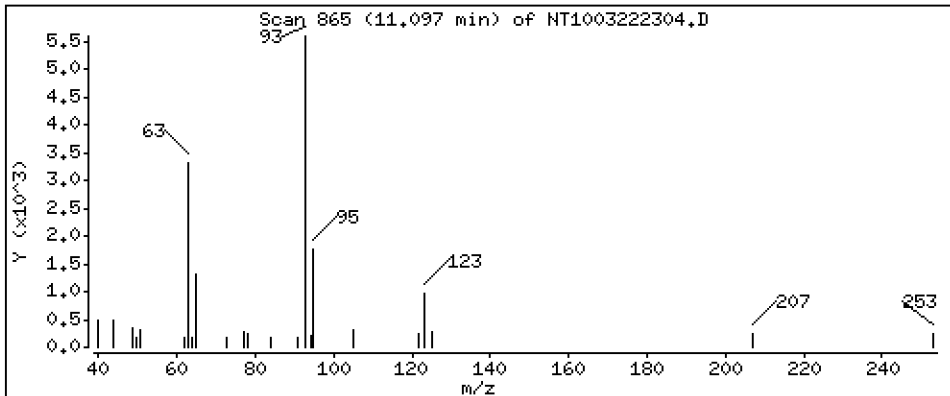
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,1943 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

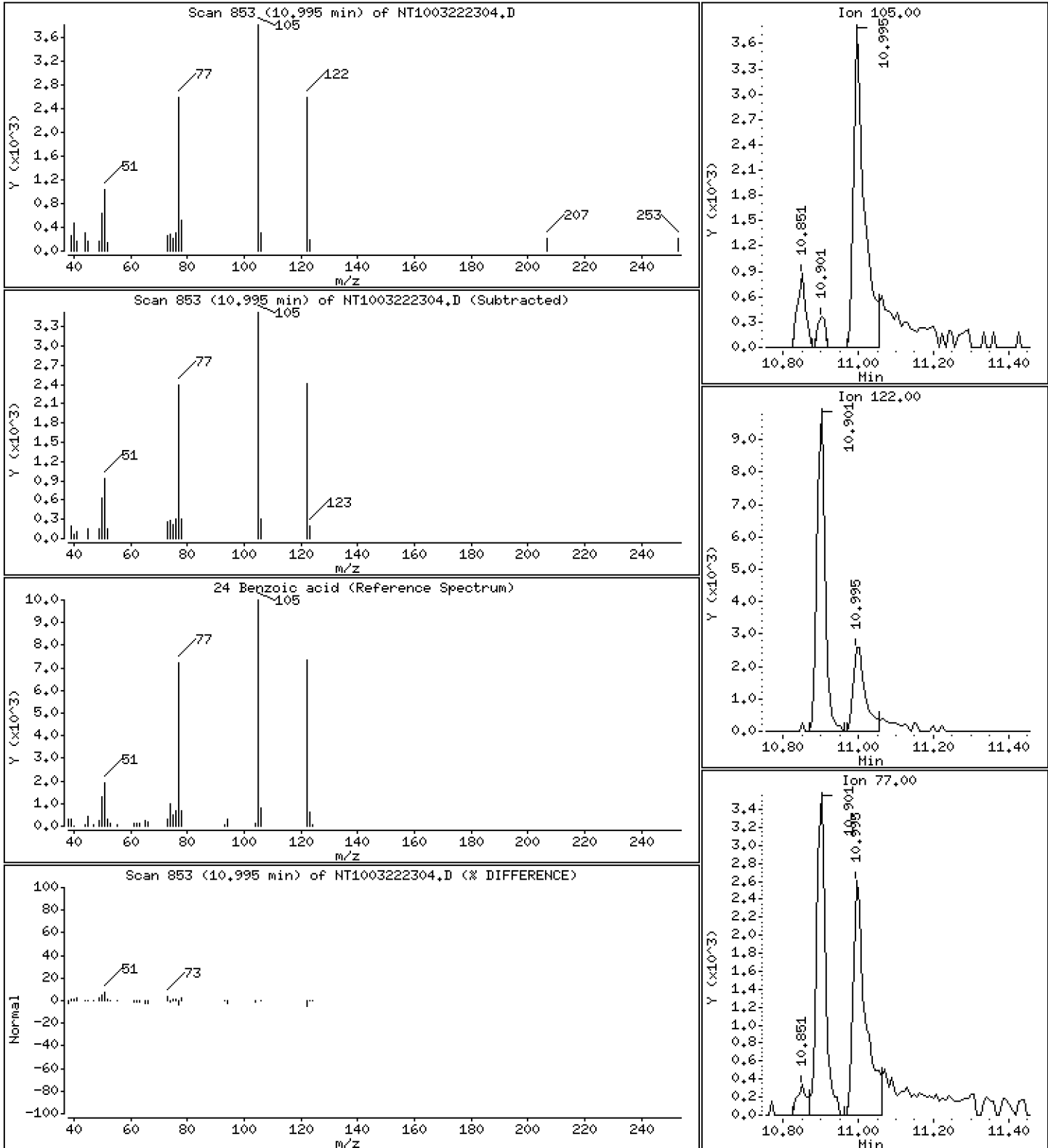
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,3047 ug/mL





Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

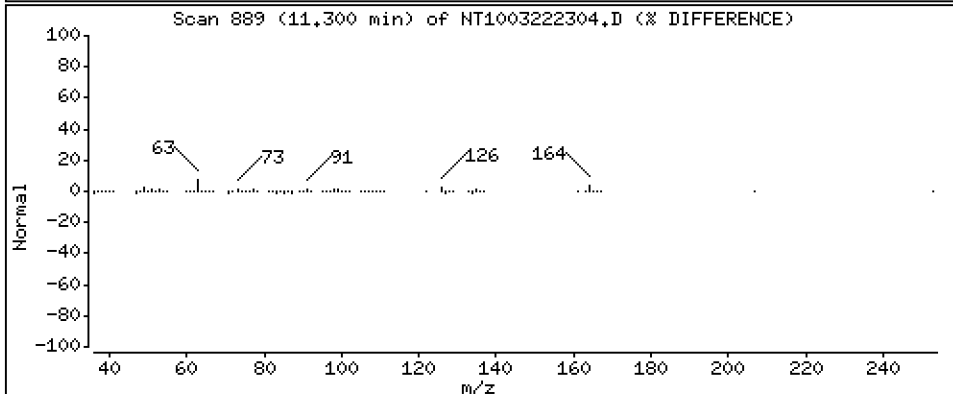
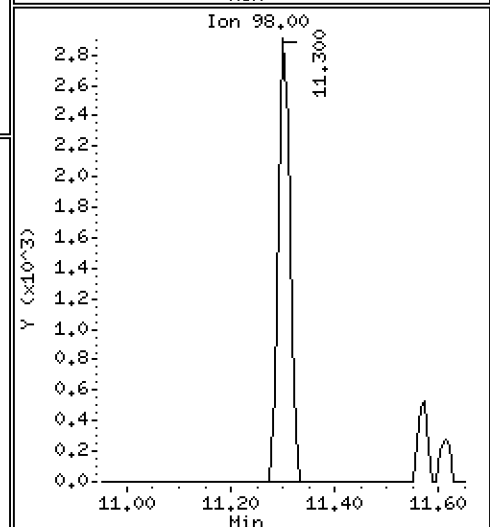
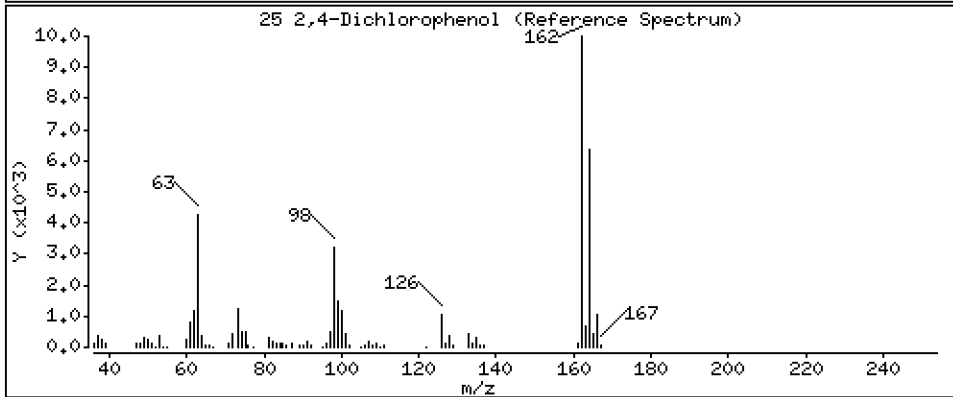
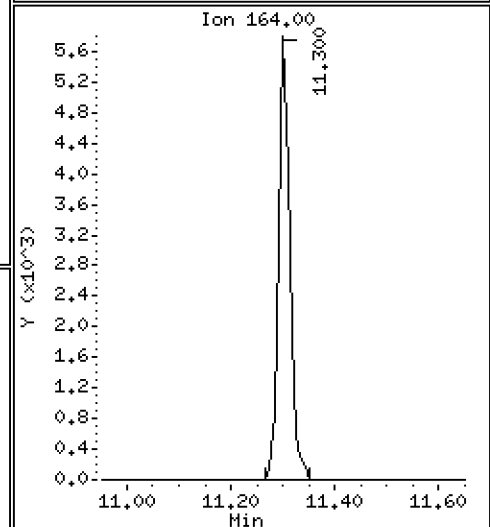
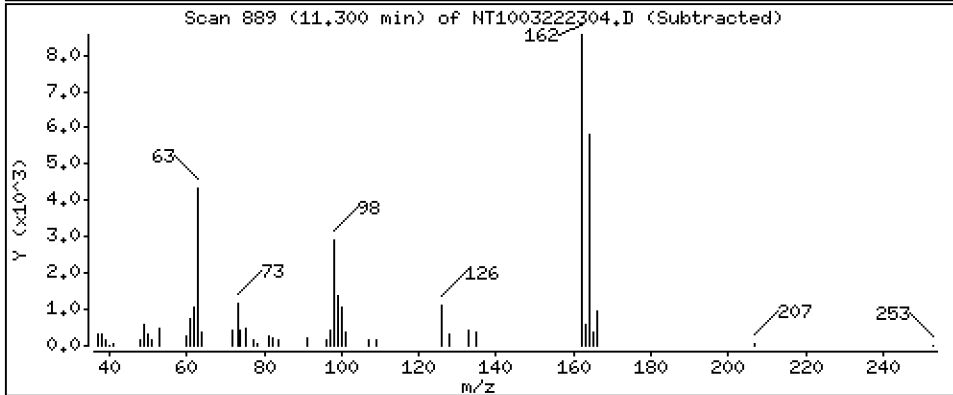
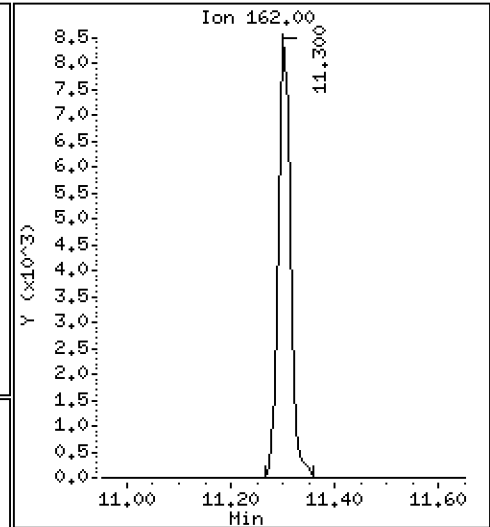
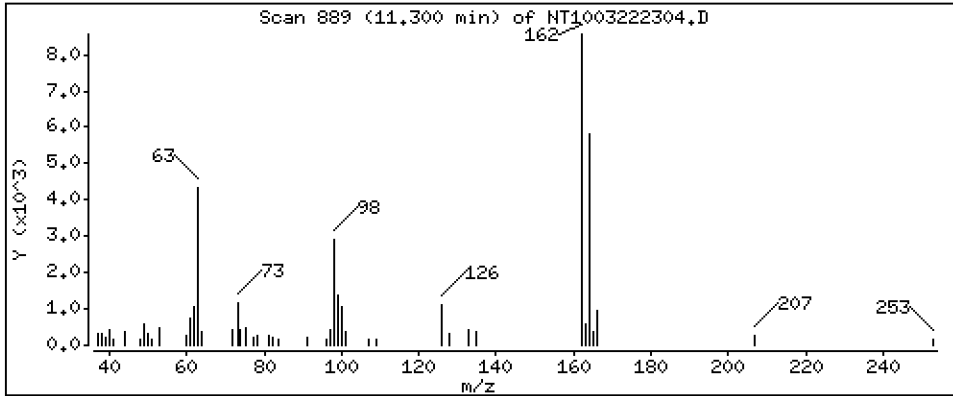
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,3777 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

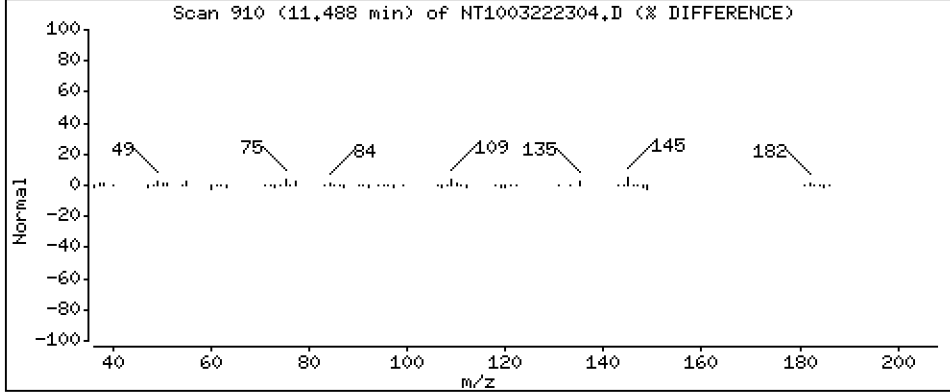
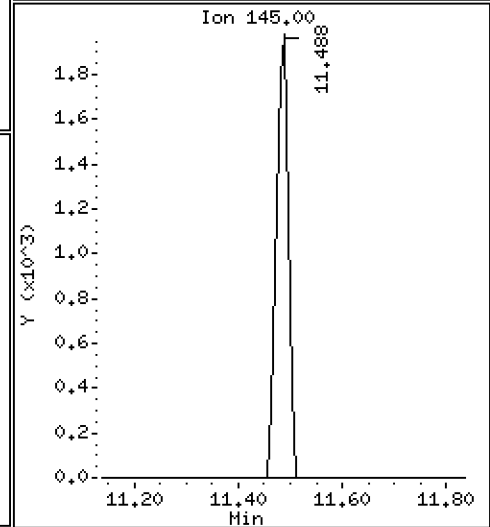
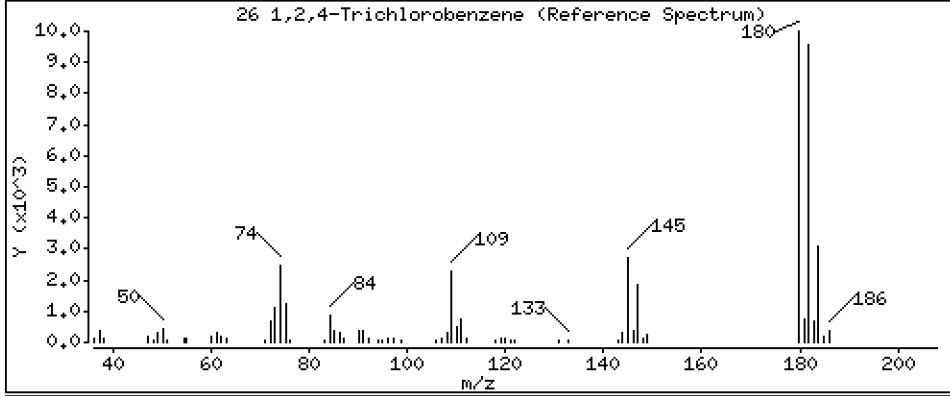
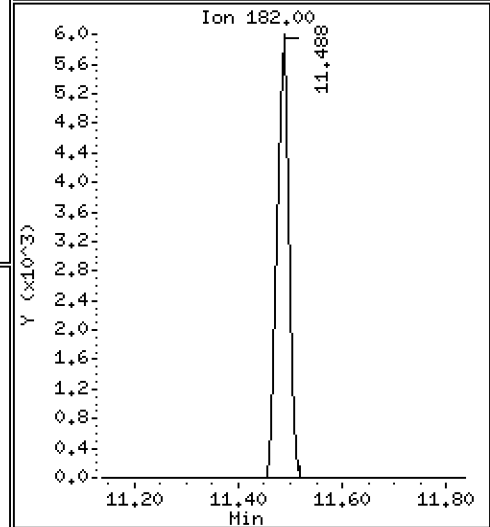
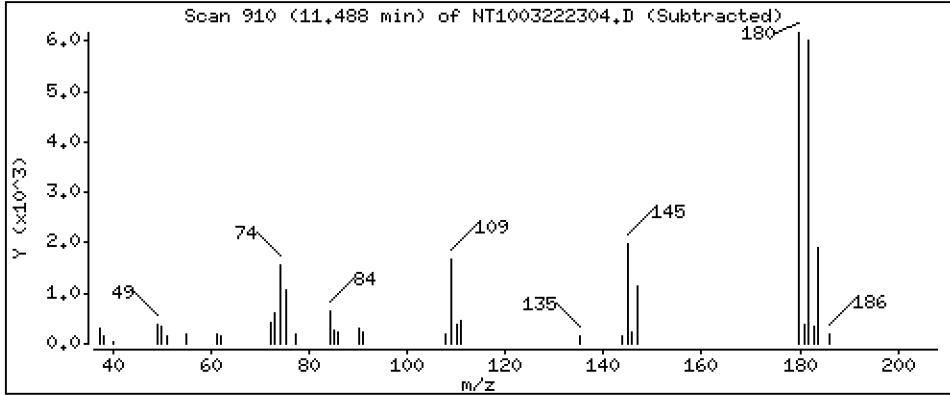
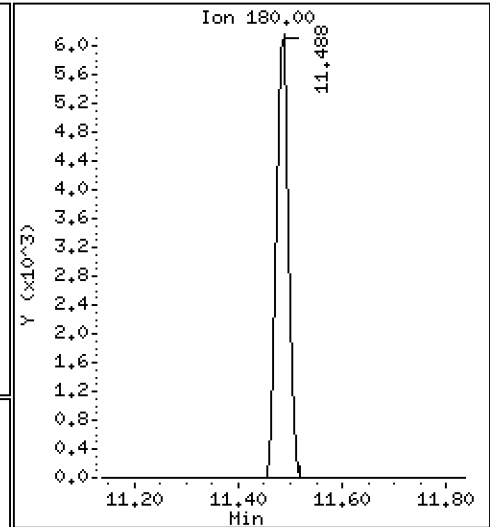
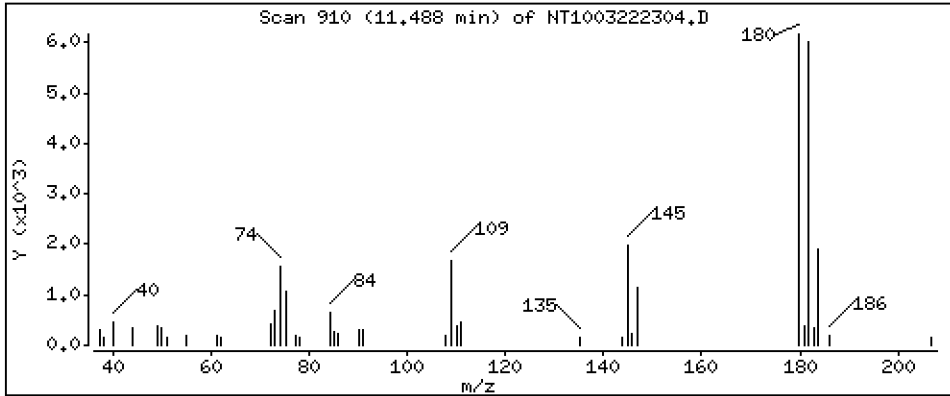
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,2206 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

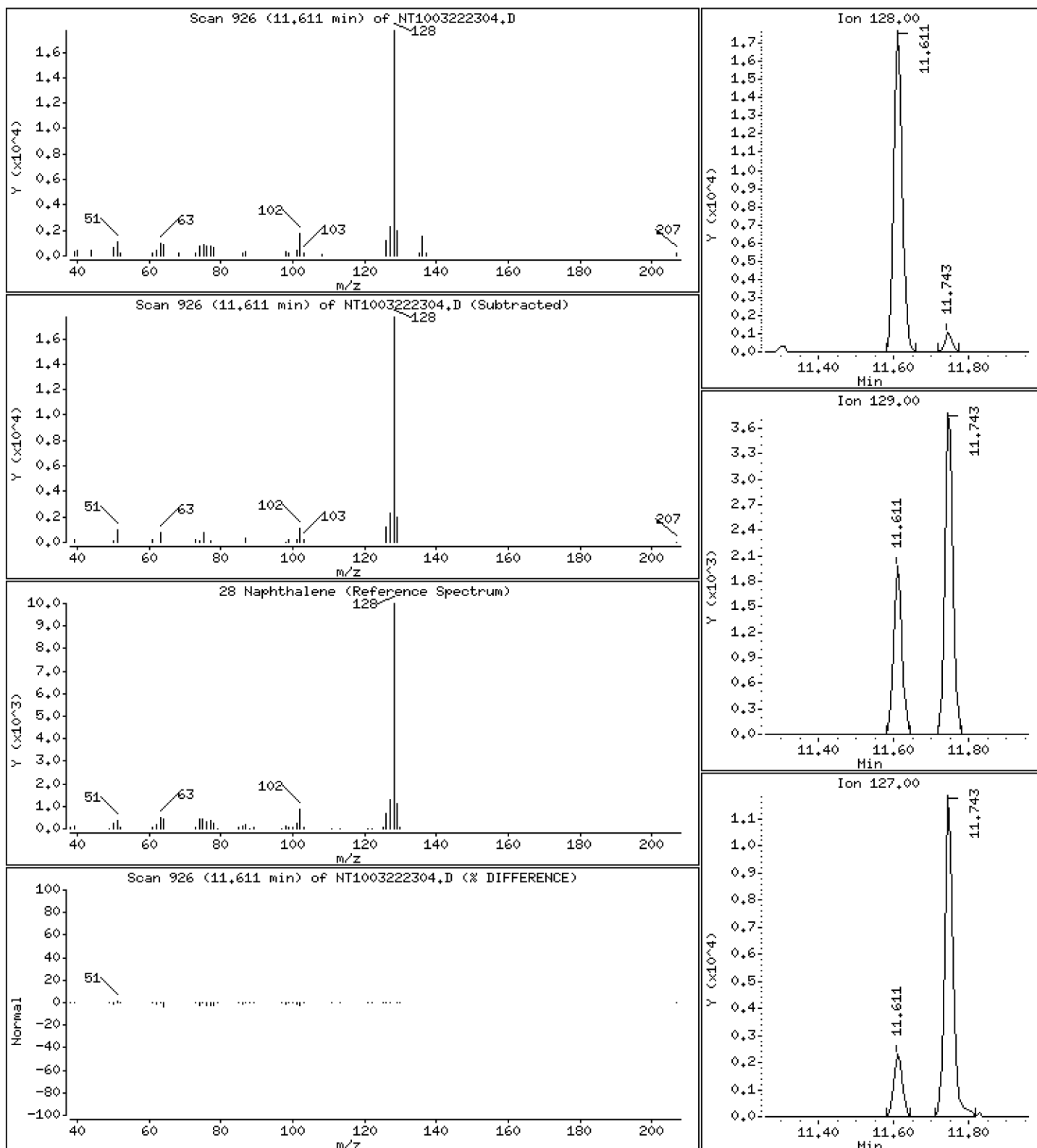
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2102 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

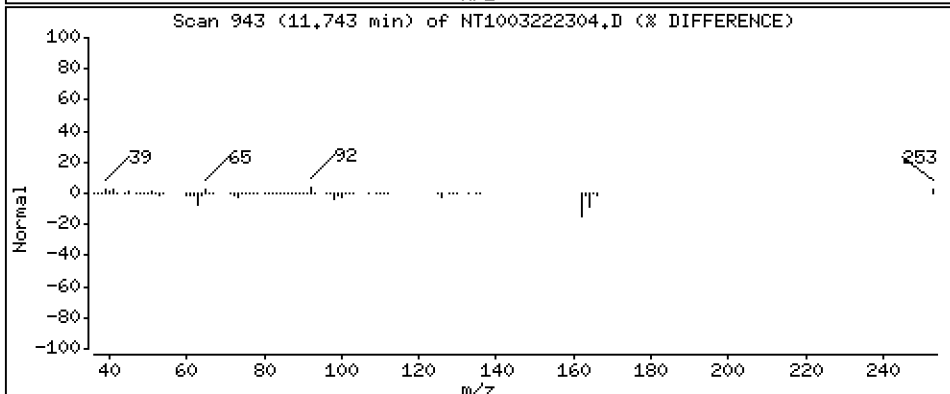
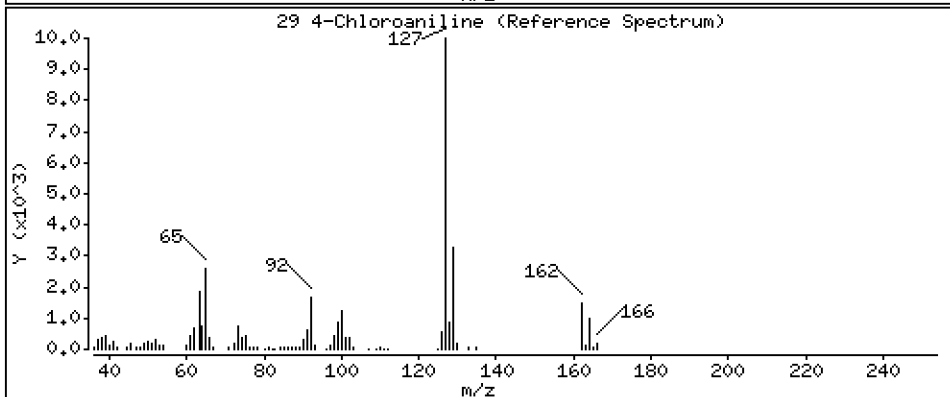
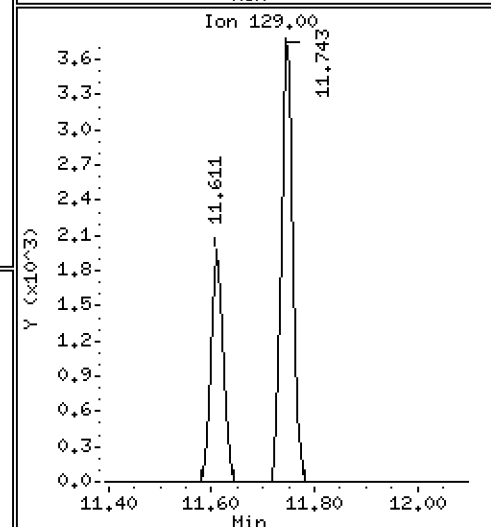
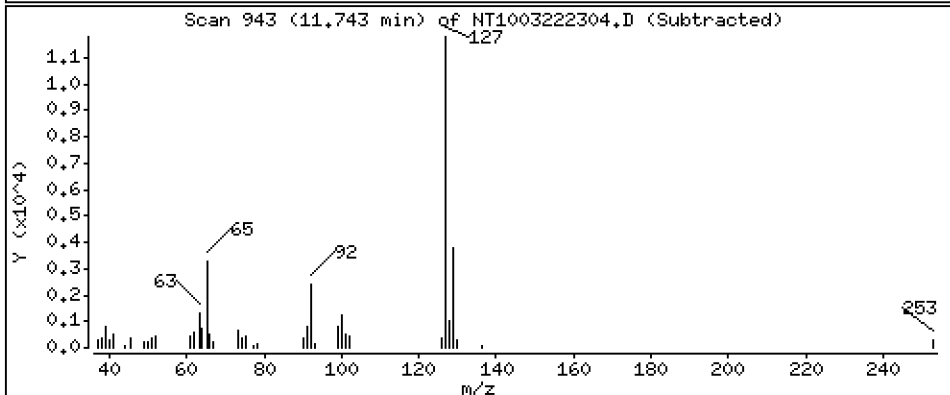
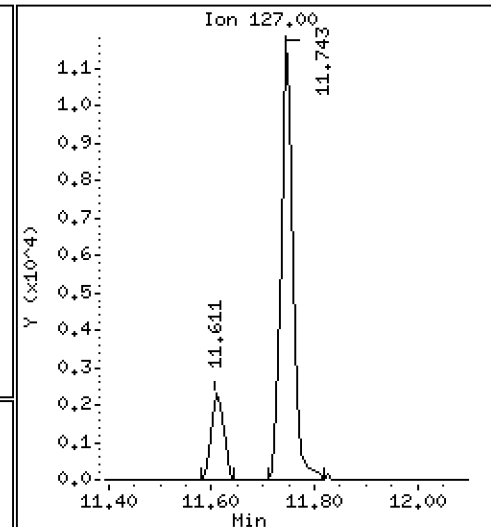
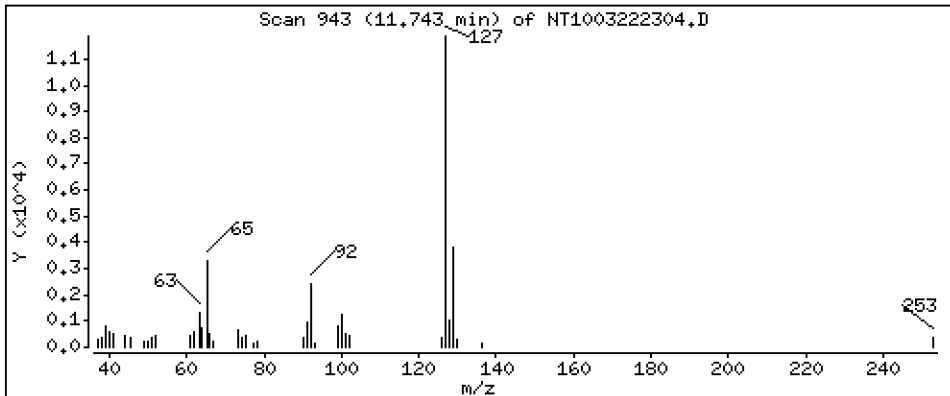
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3570 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

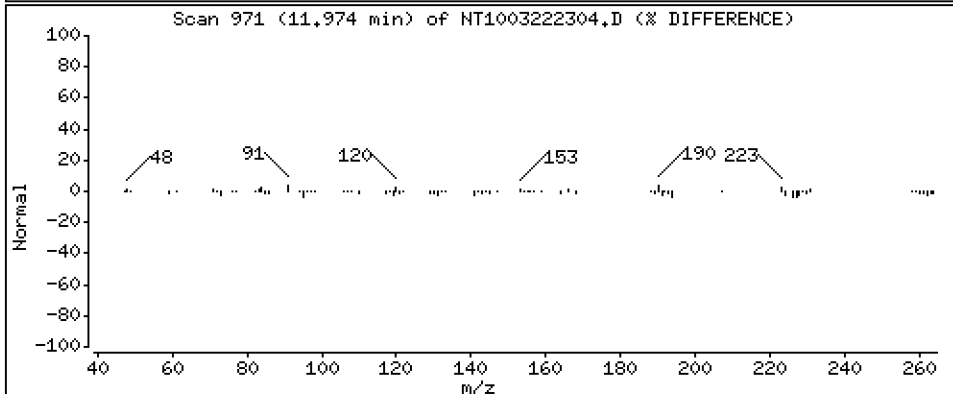
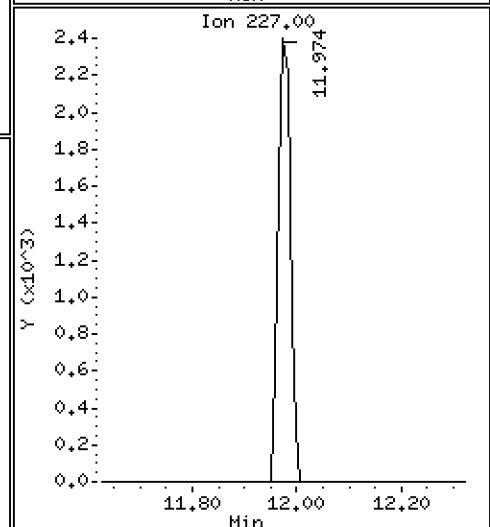
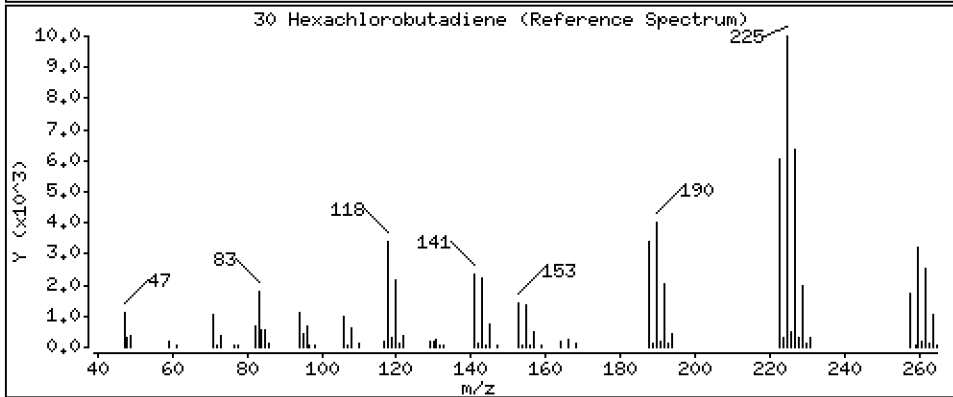
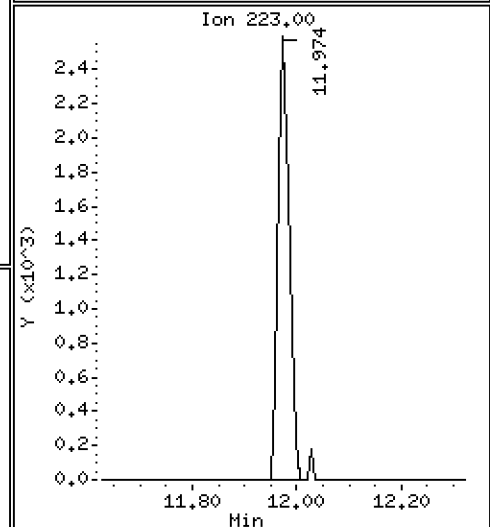
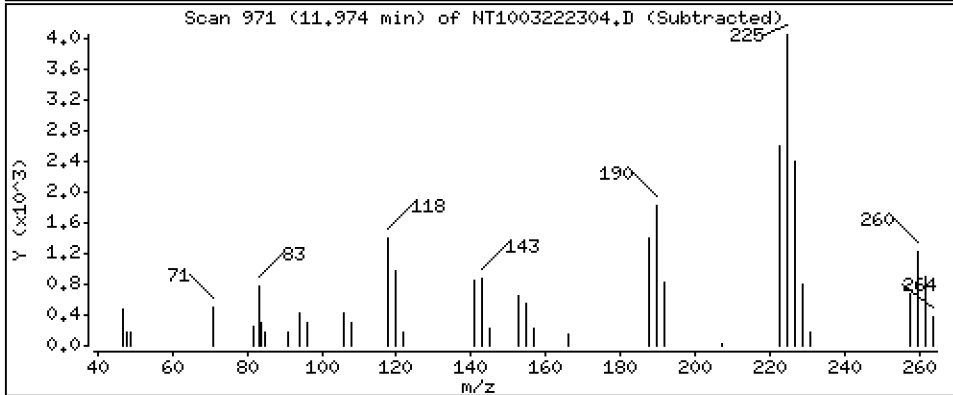
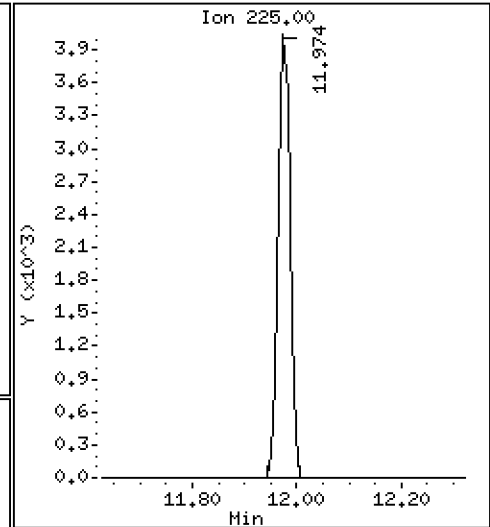
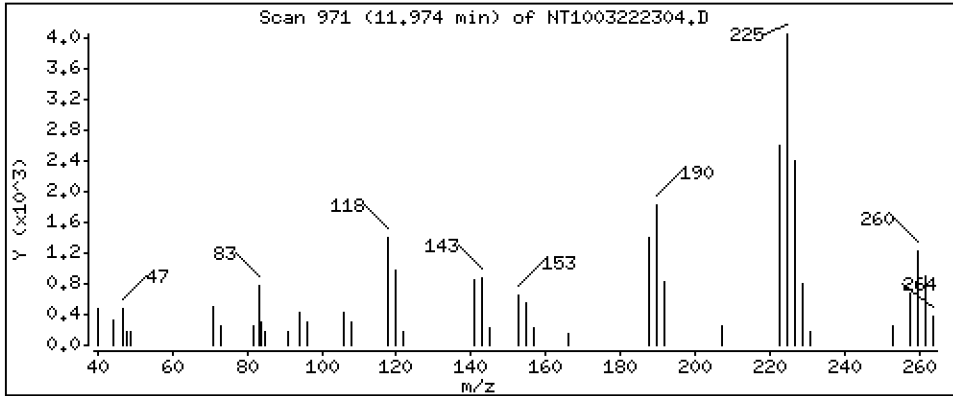
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,2388 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

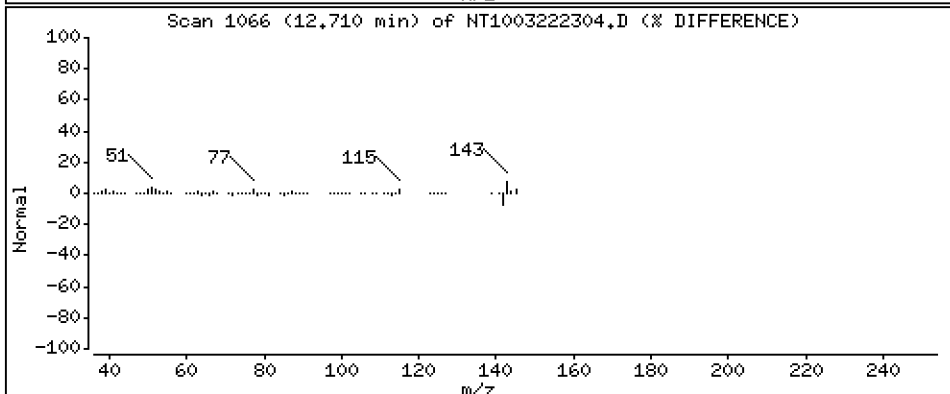
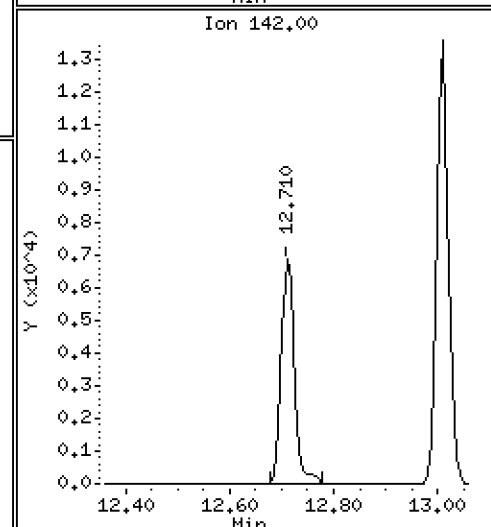
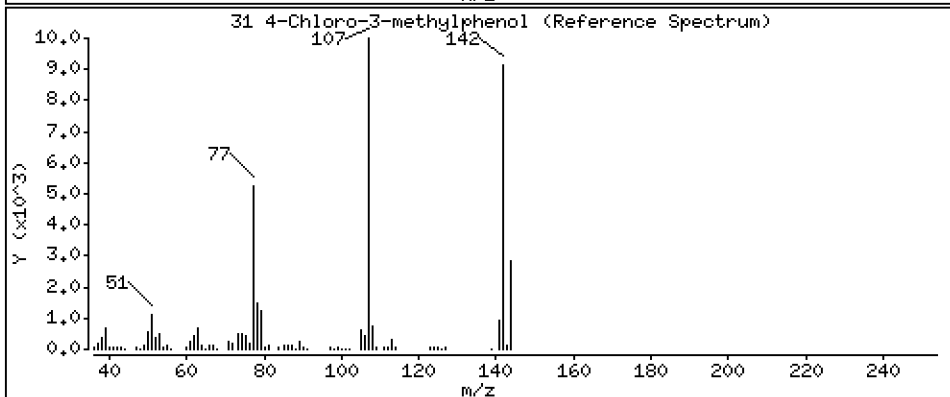
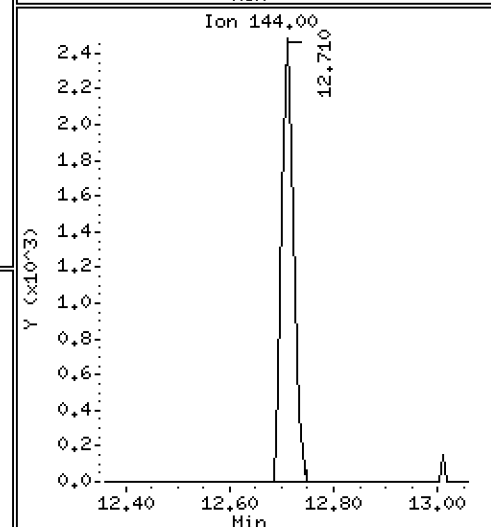
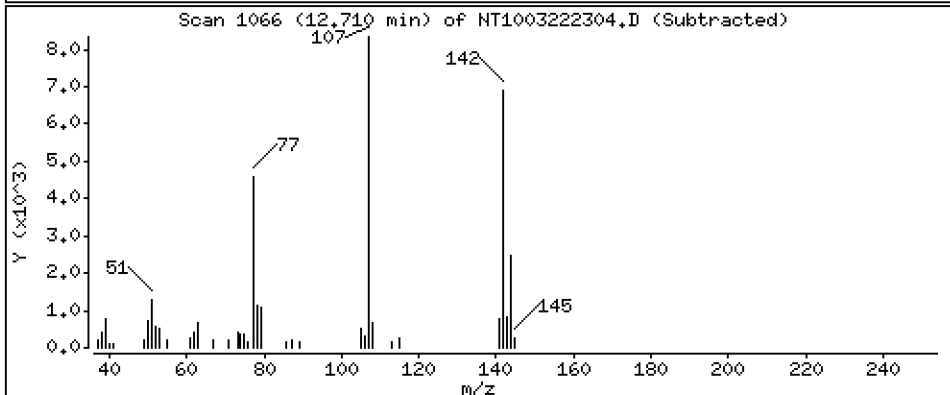
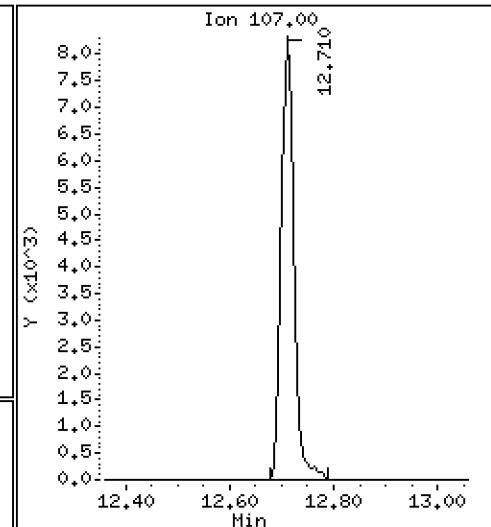
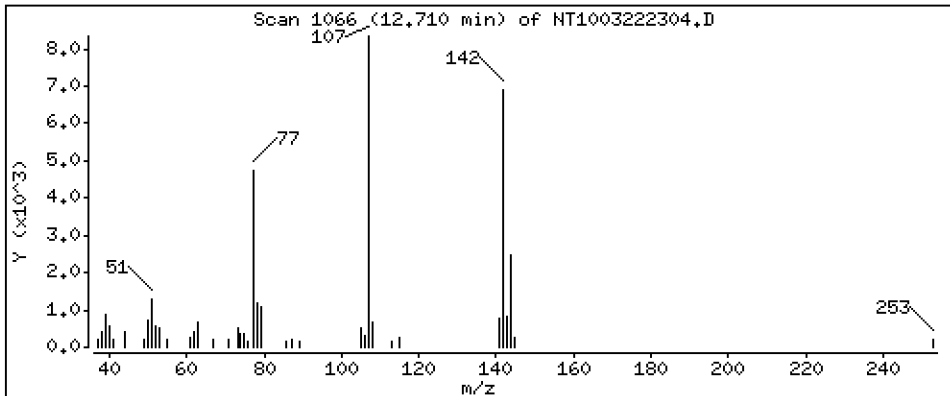
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,3375 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

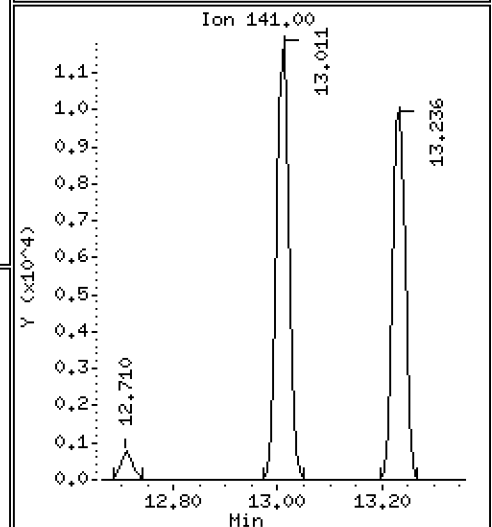
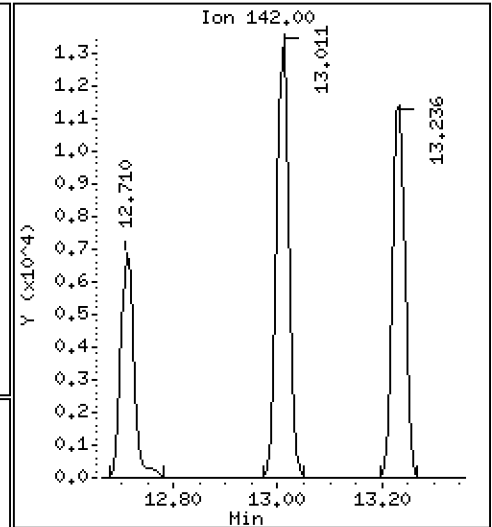
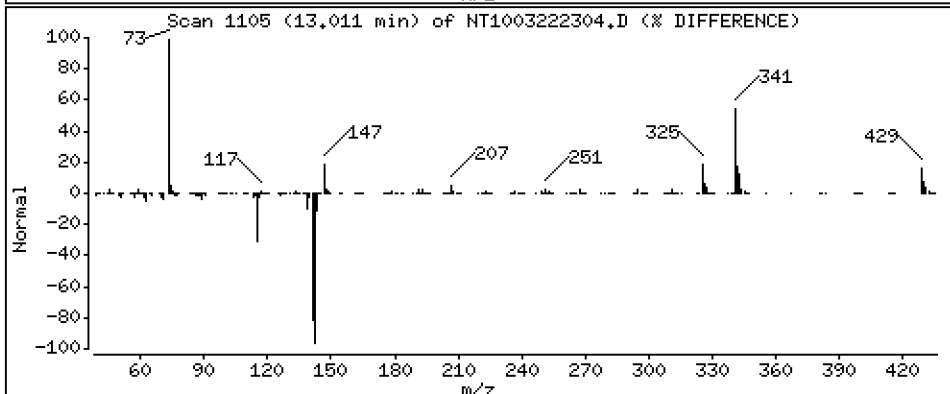
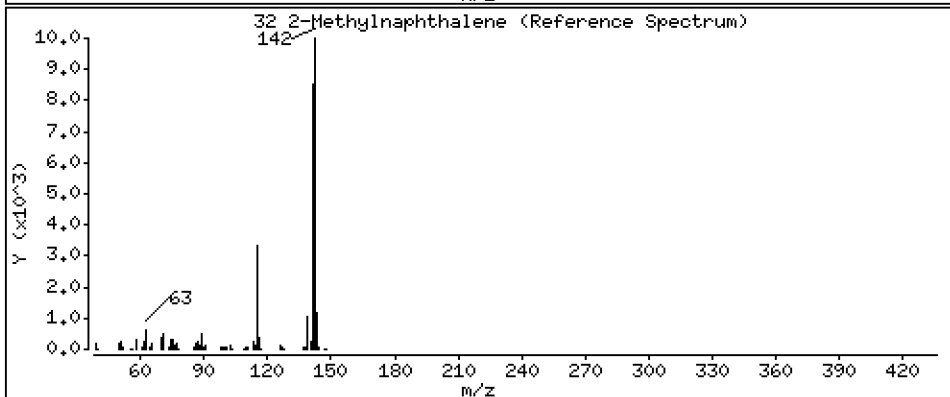
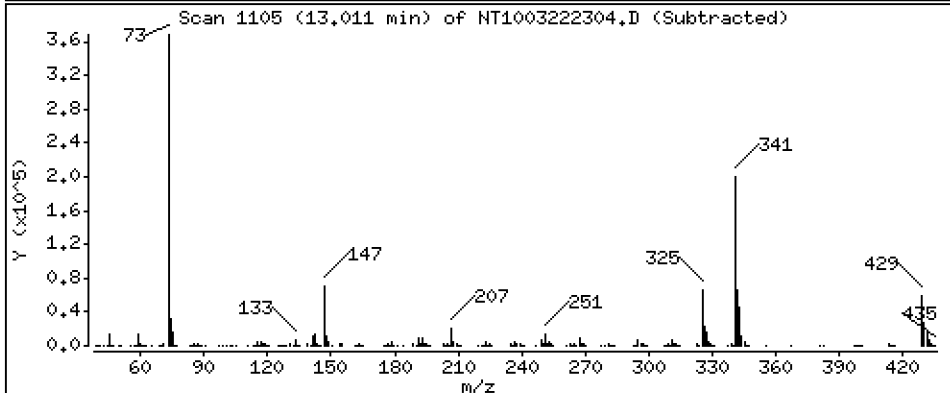
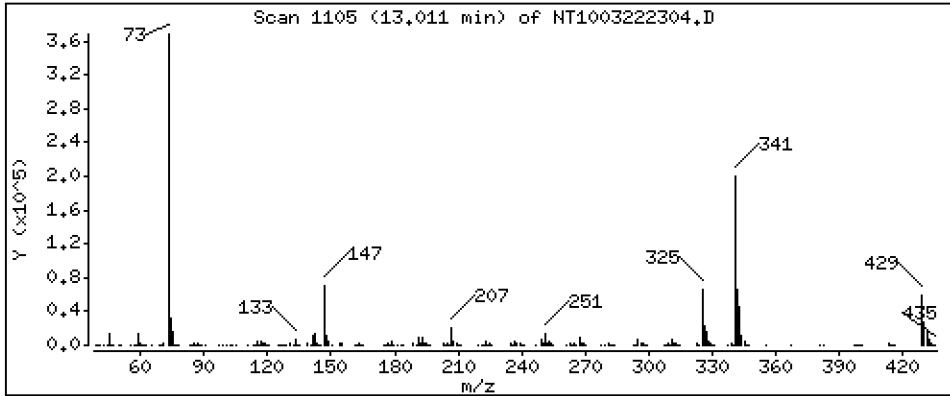
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,2136 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

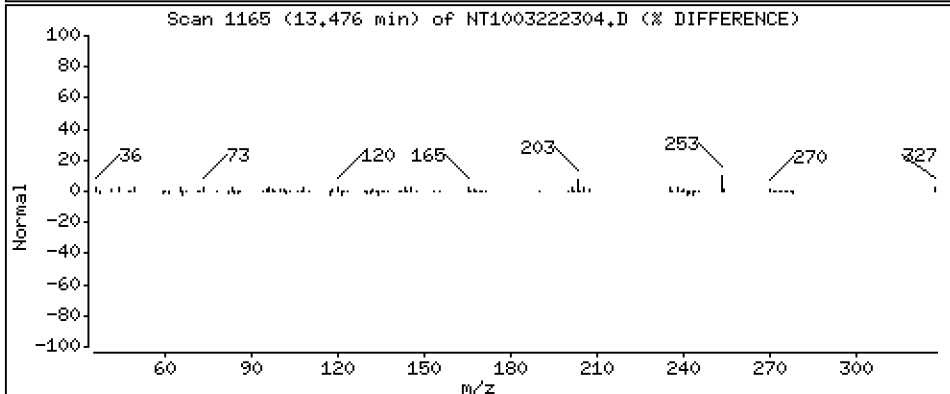
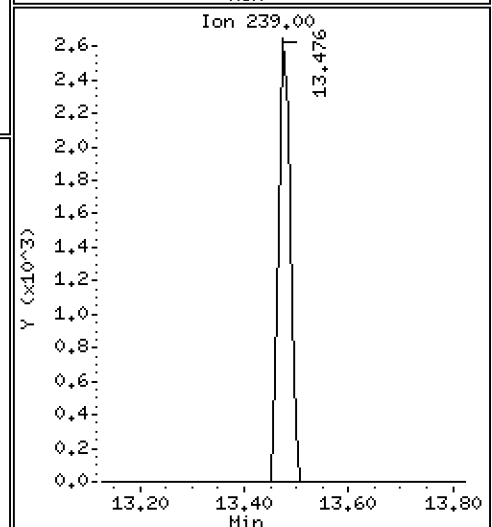
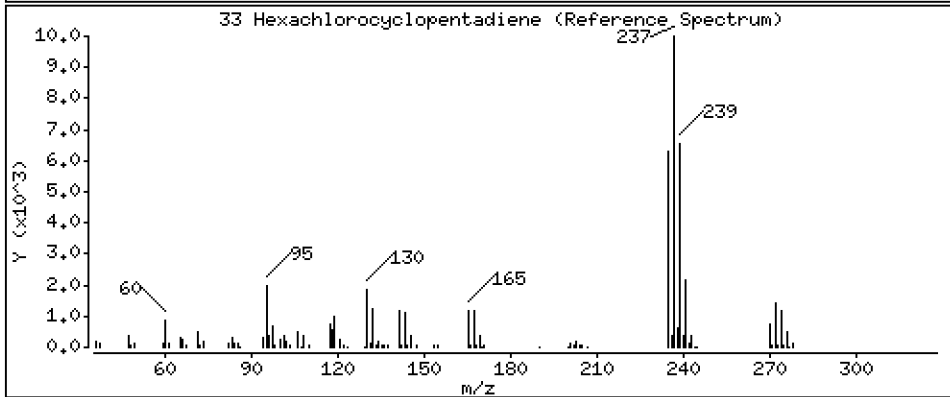
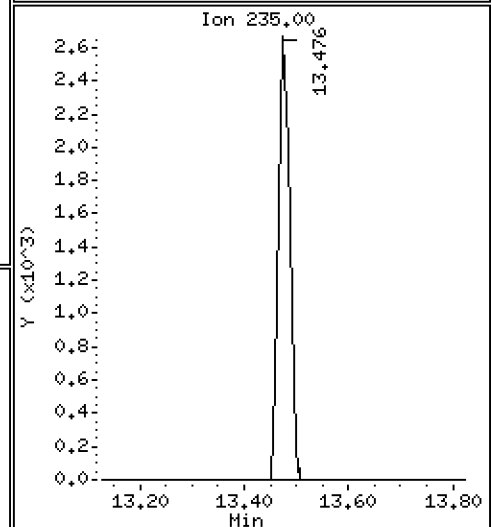
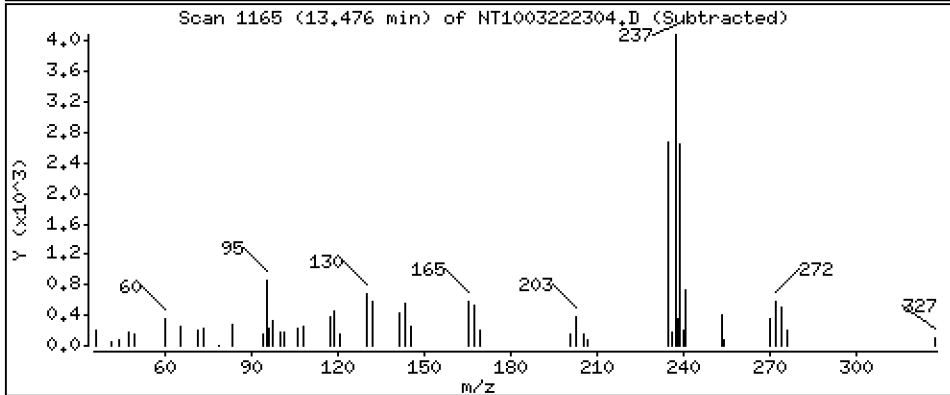
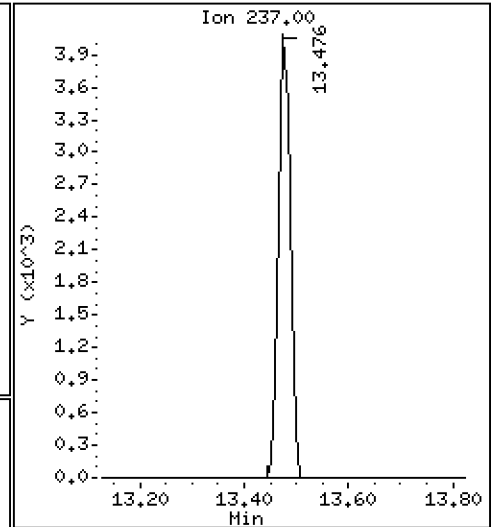
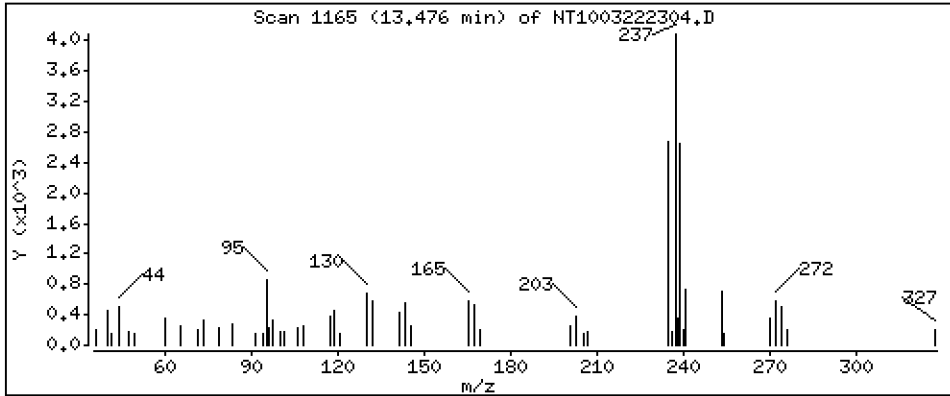
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

33 Hexachlorocyclopentadiene

Concentration: 0.2376 ug/mL





Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

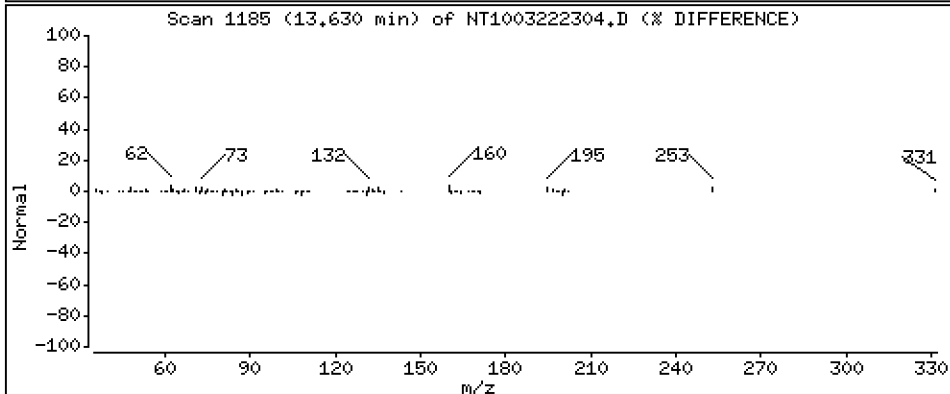
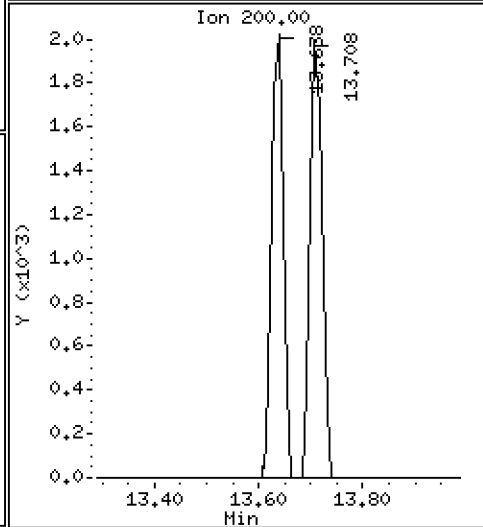
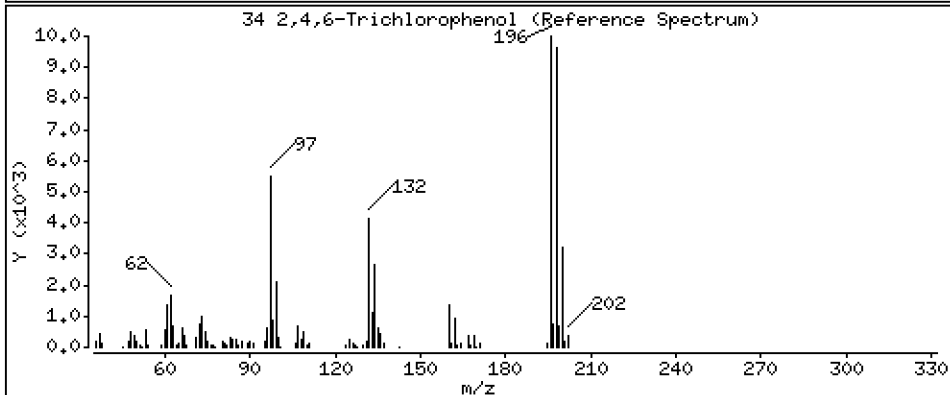
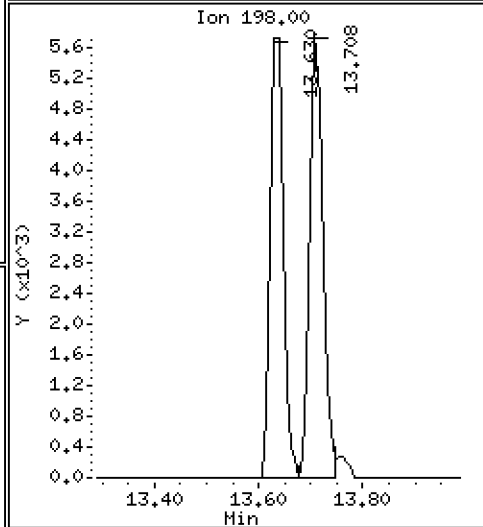
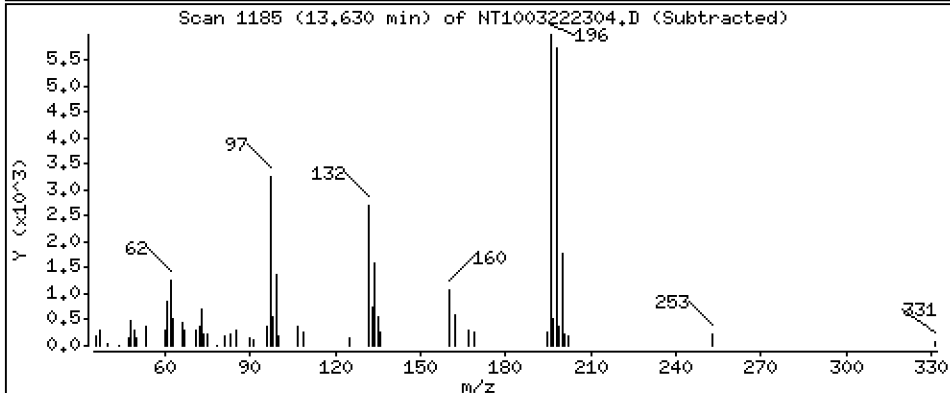
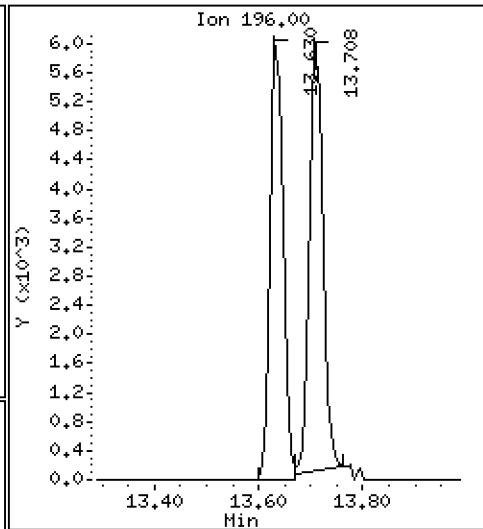
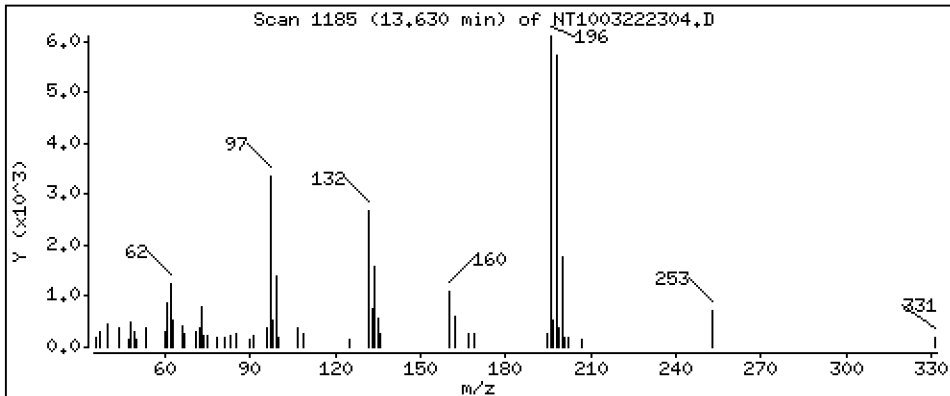
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,3651 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

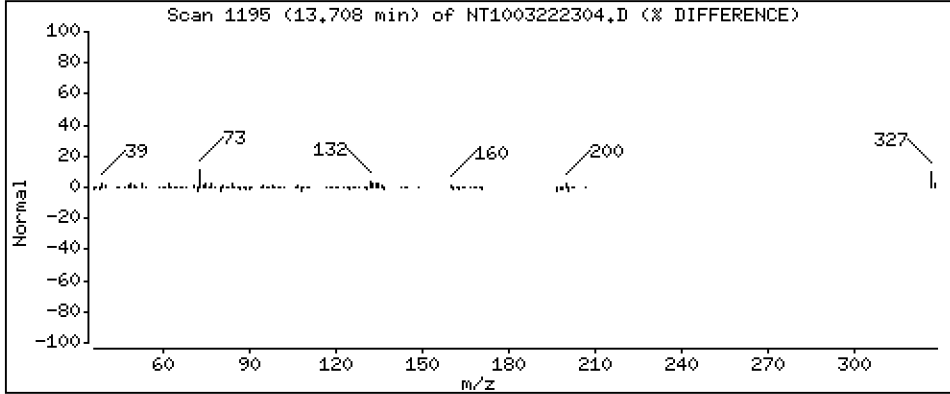
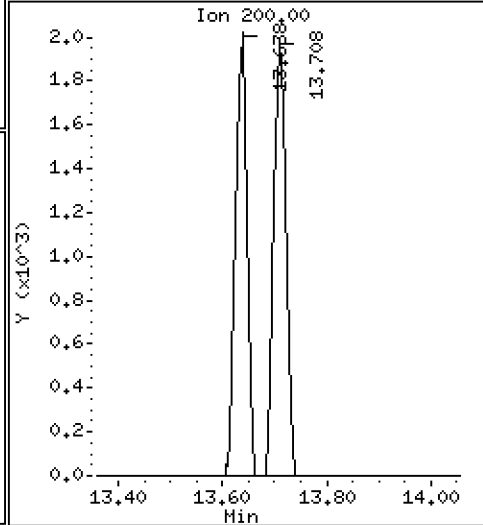
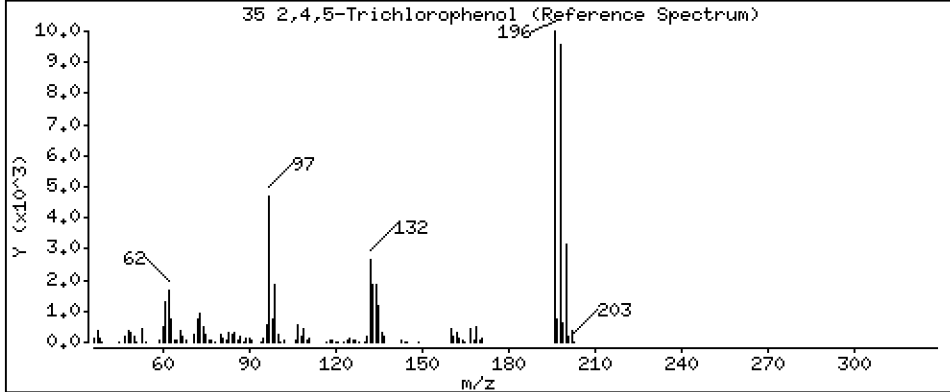
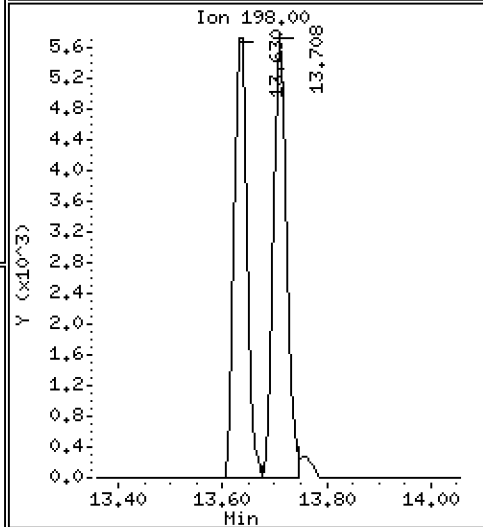
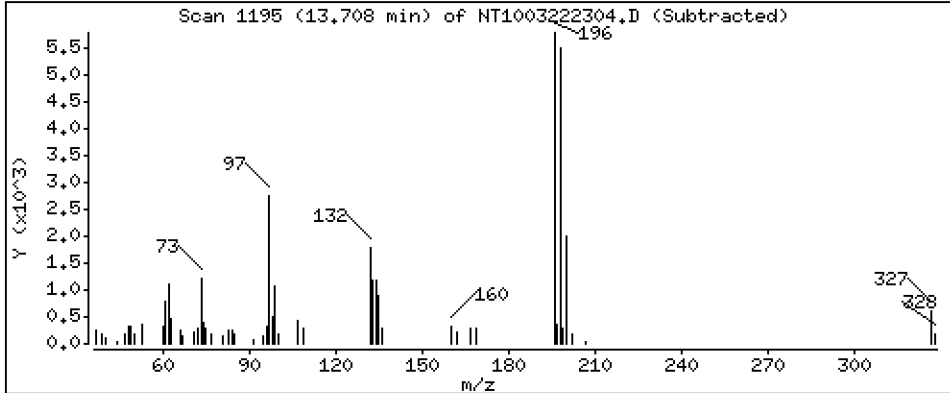
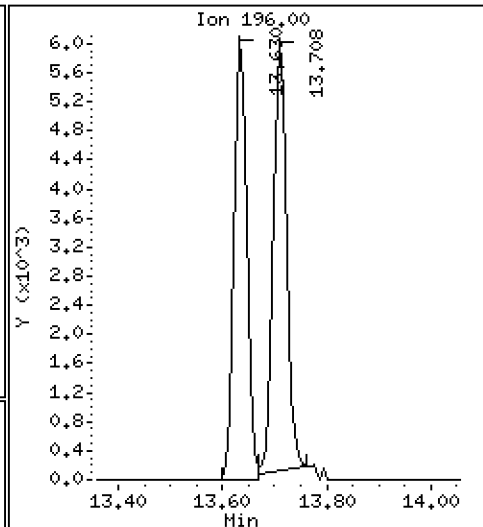
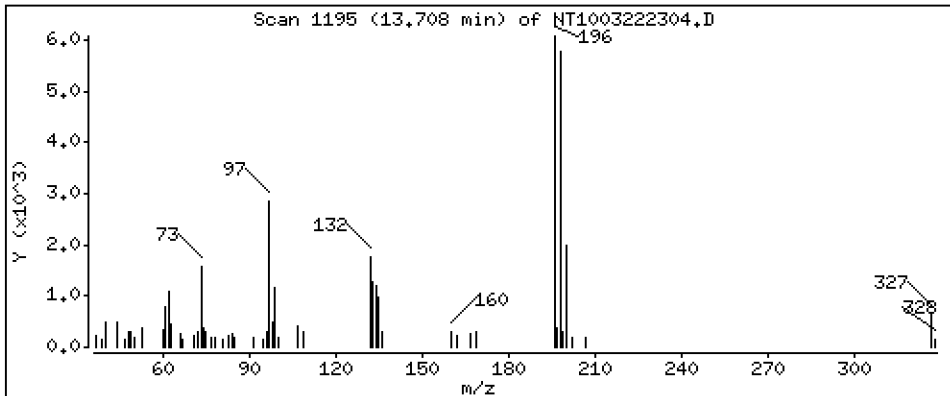
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,3331 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

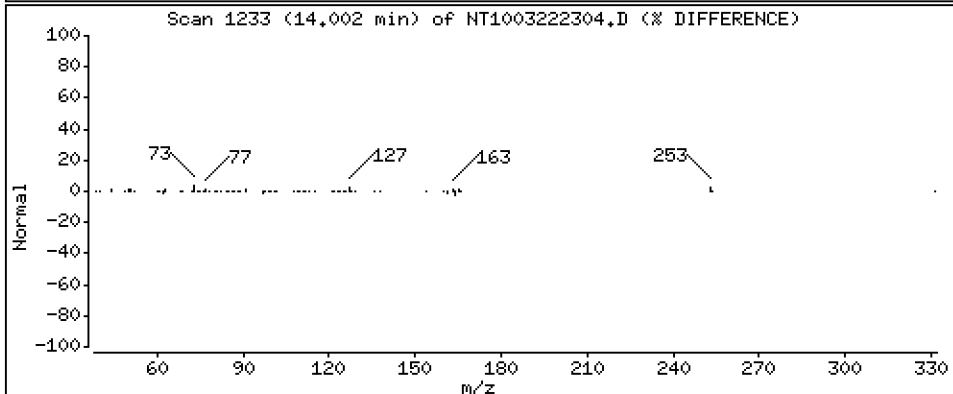
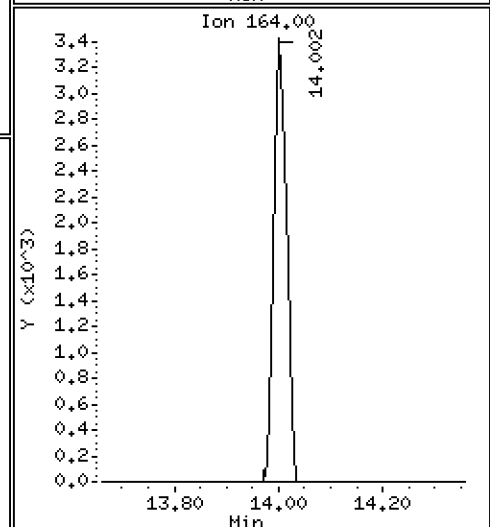
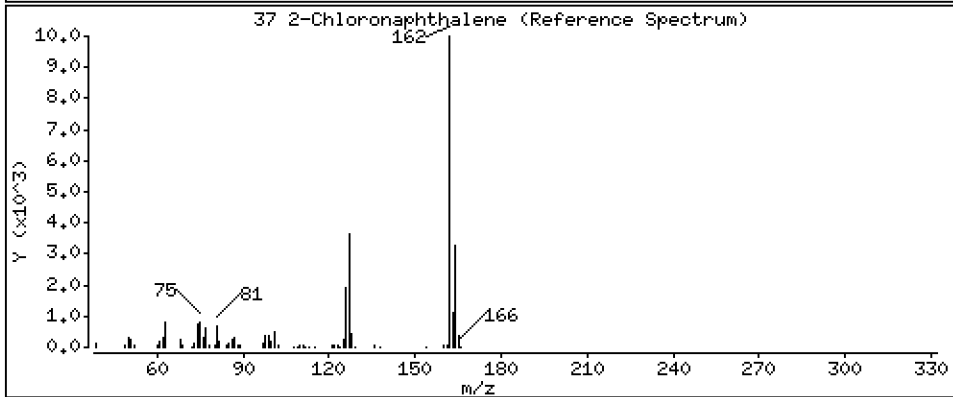
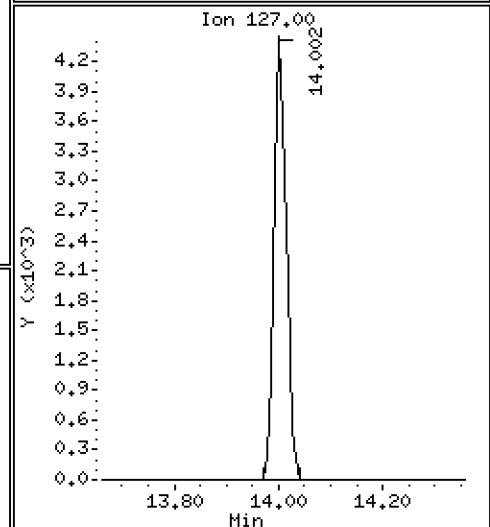
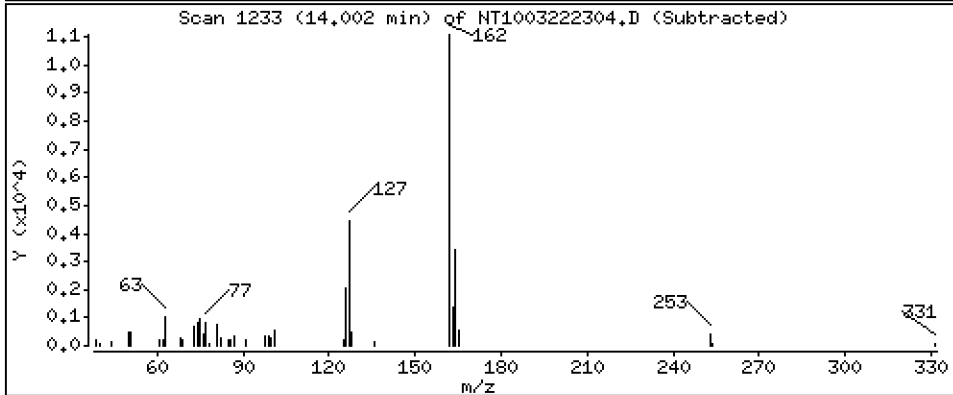
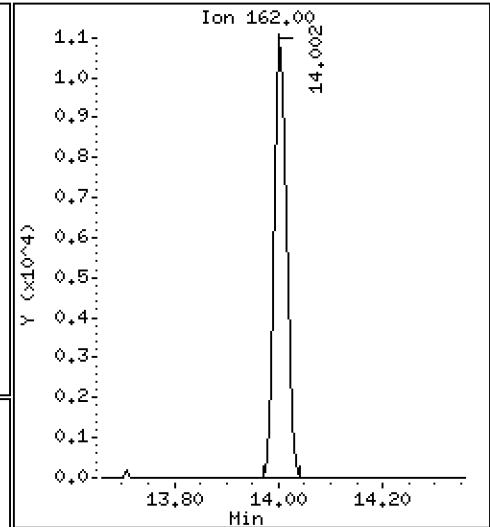
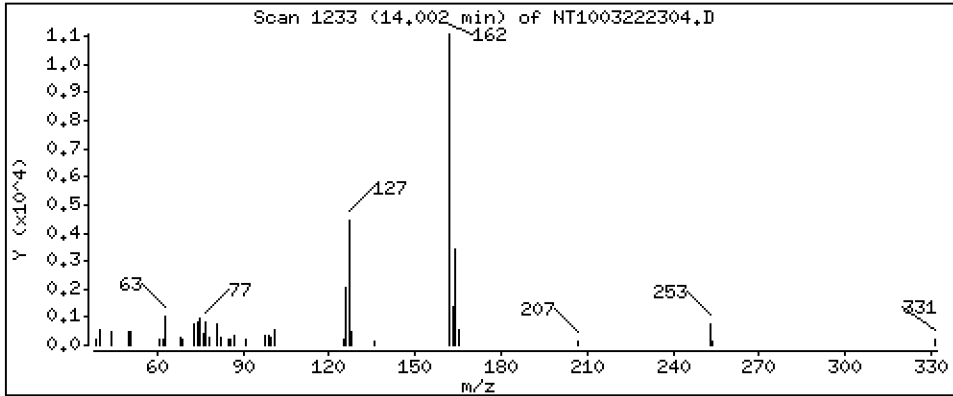
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

37 2-Chloronaphthalene

Concentration: 0.1981 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

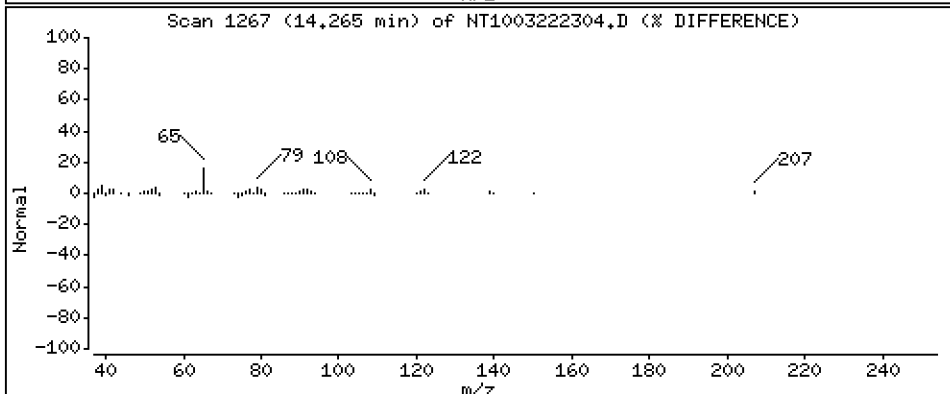
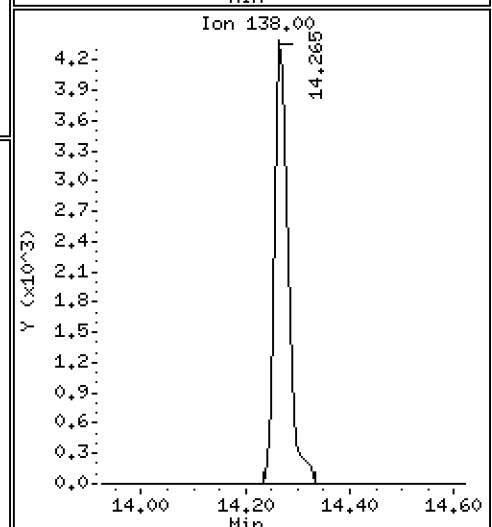
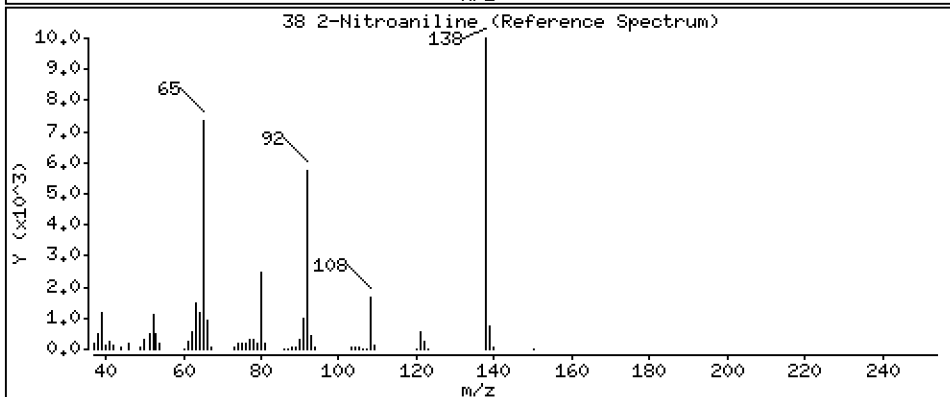
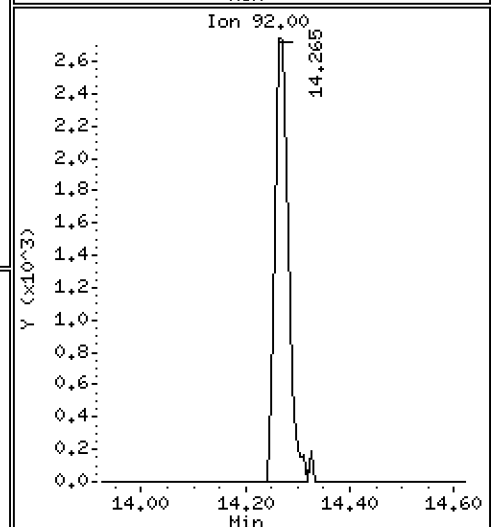
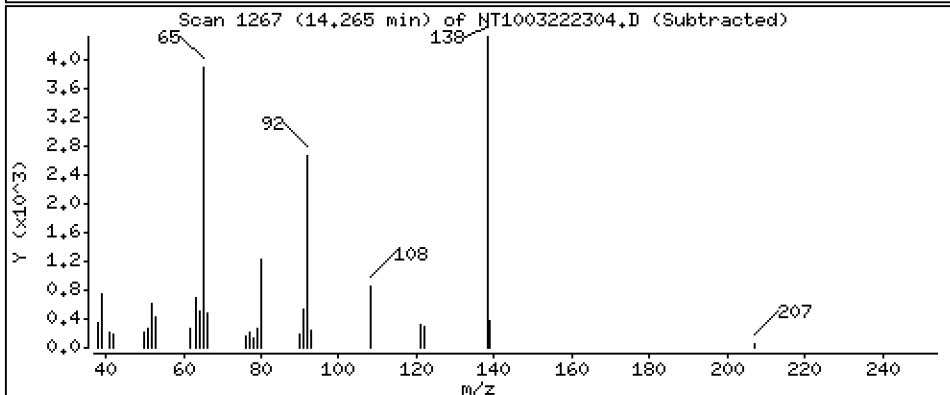
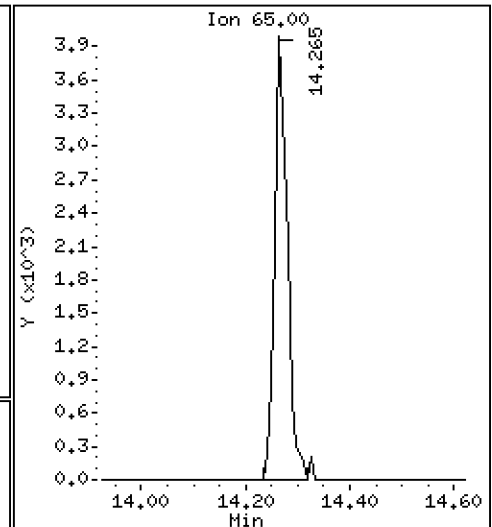
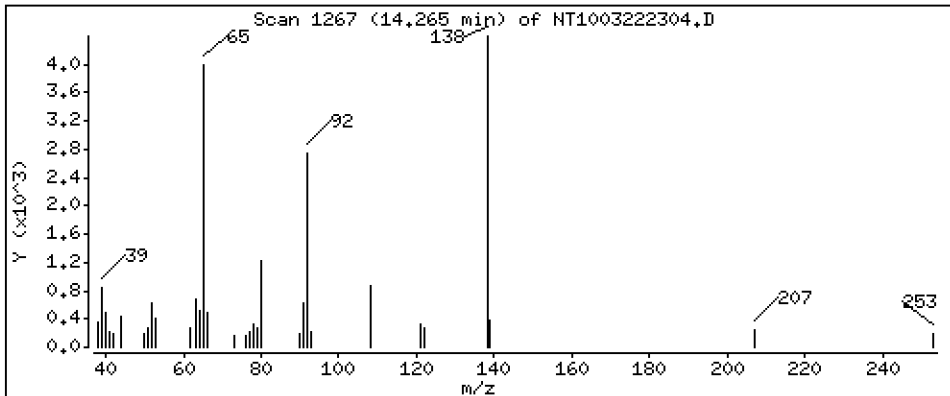
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,2630 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

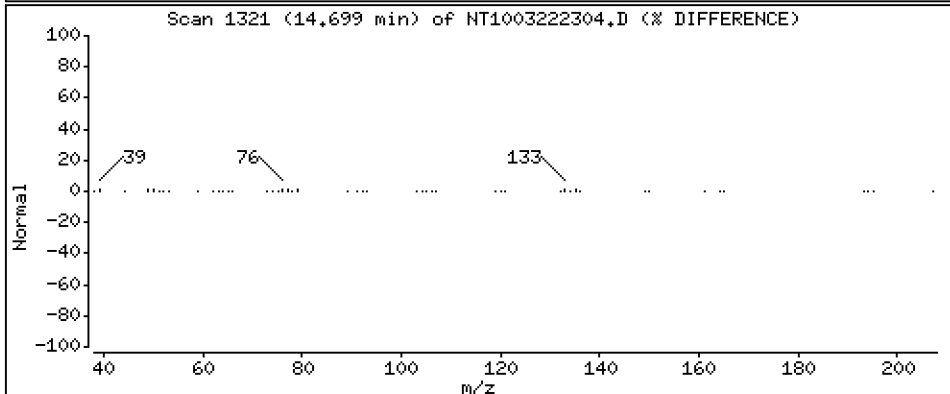
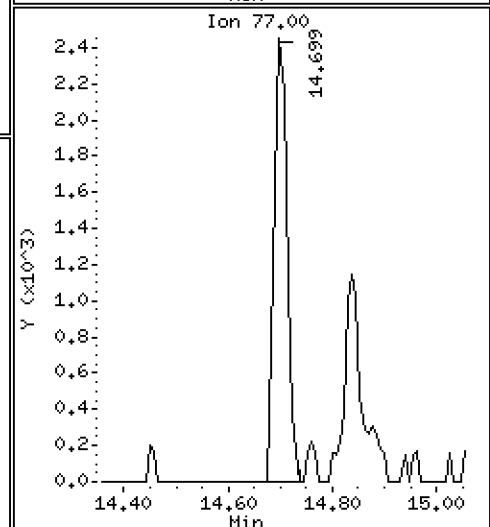
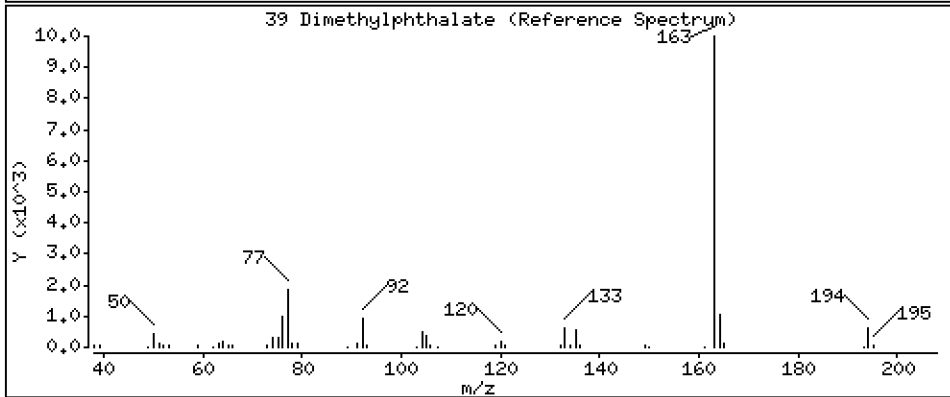
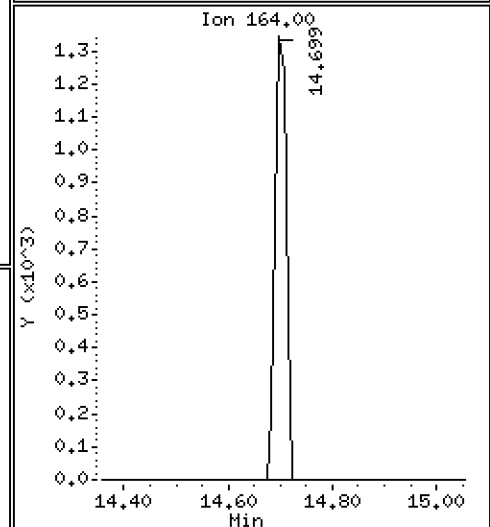
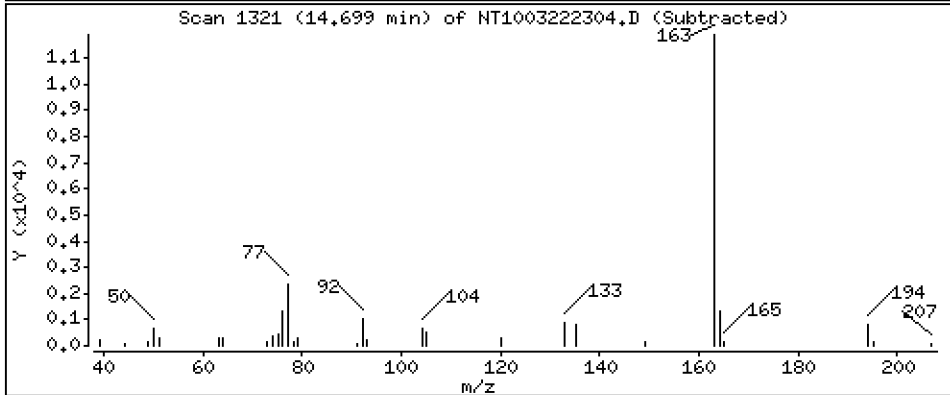
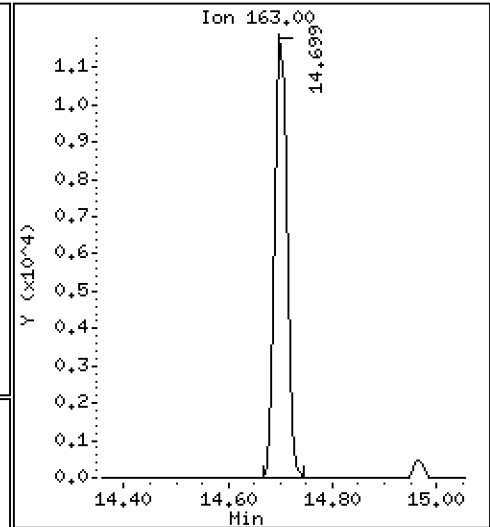
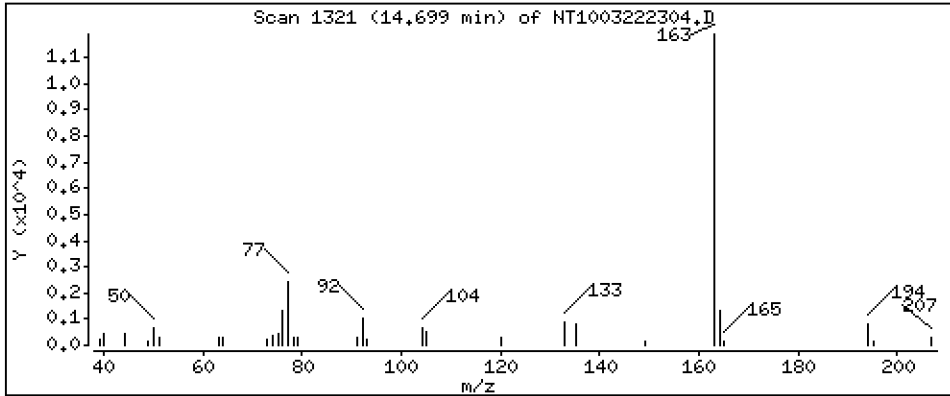
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2038 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

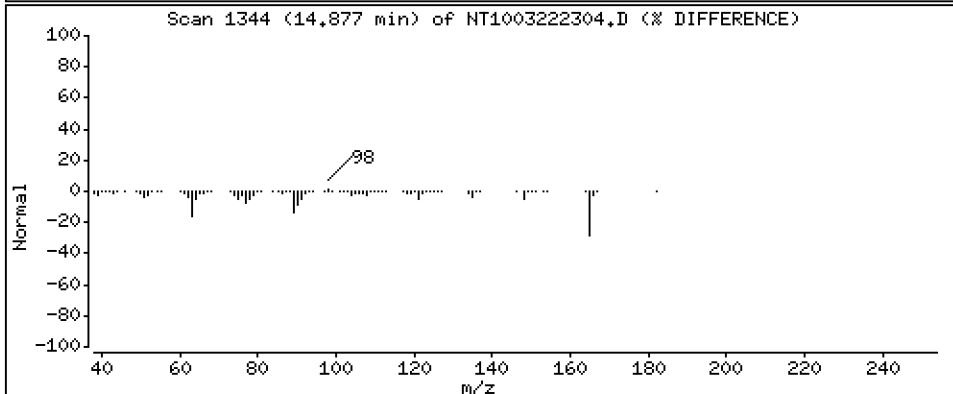
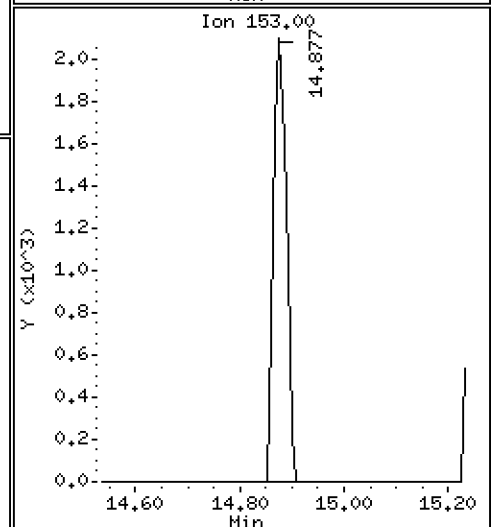
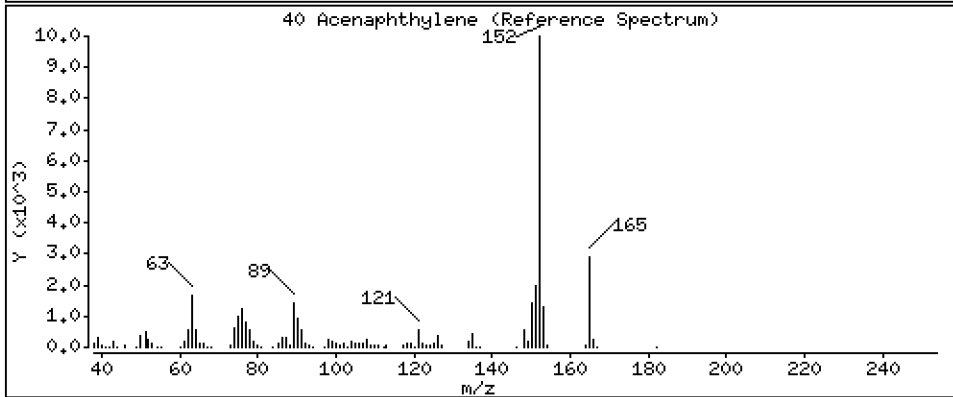
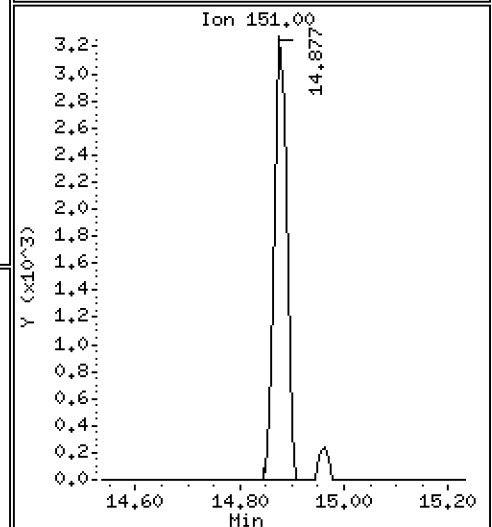
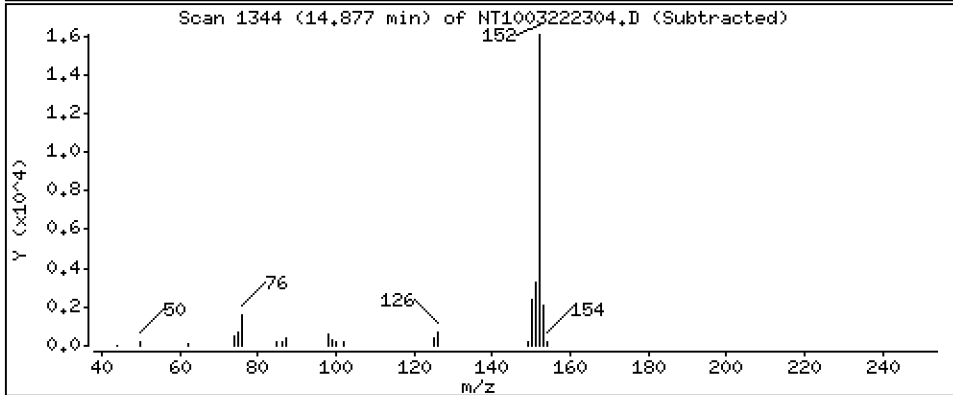
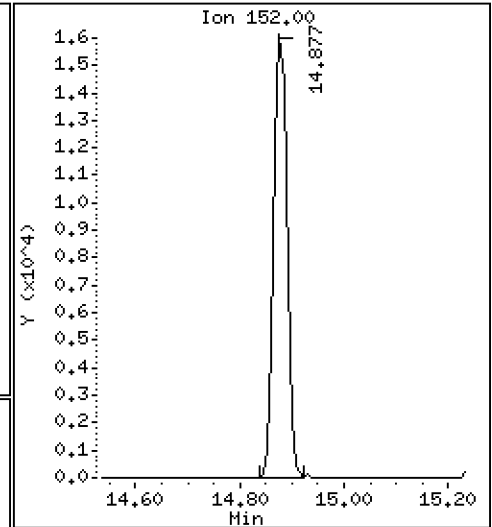
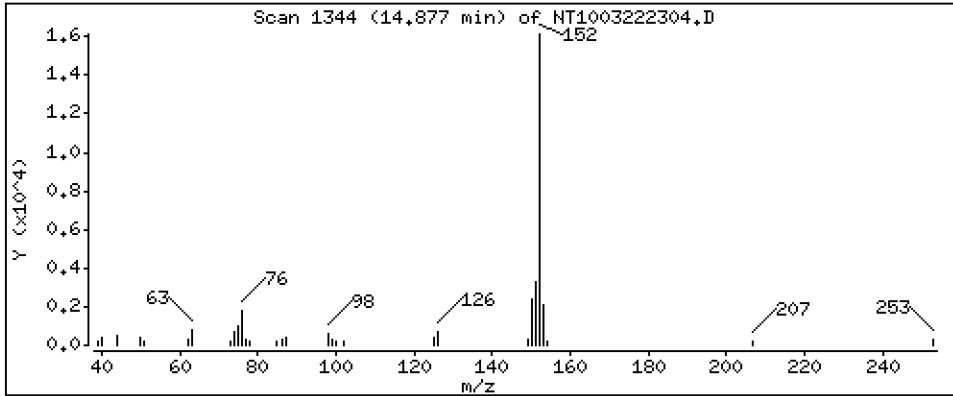
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,1982 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

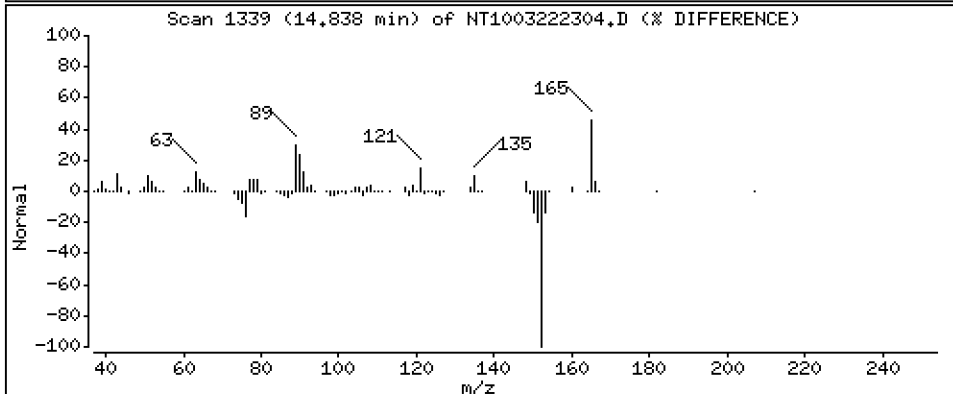
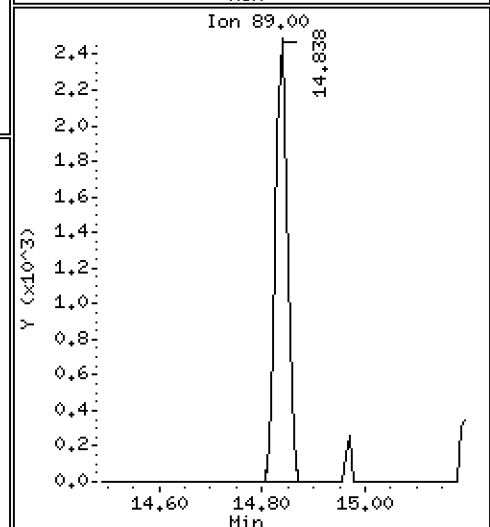
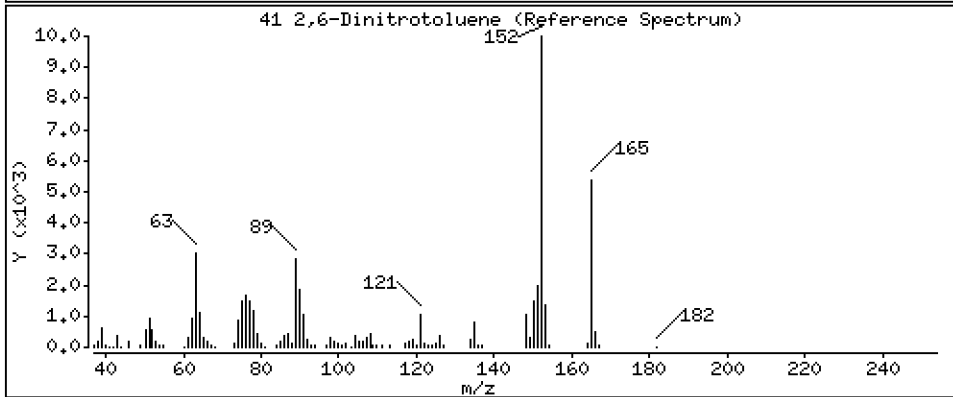
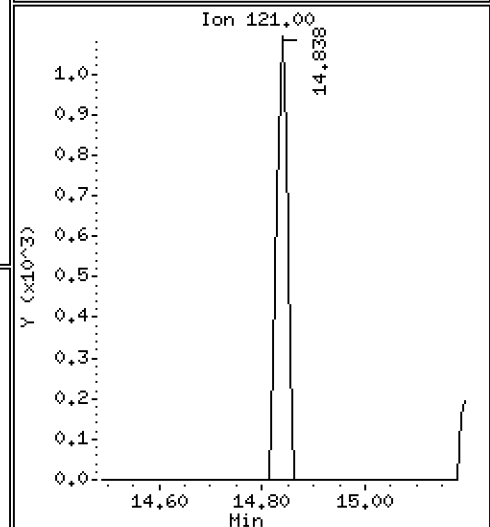
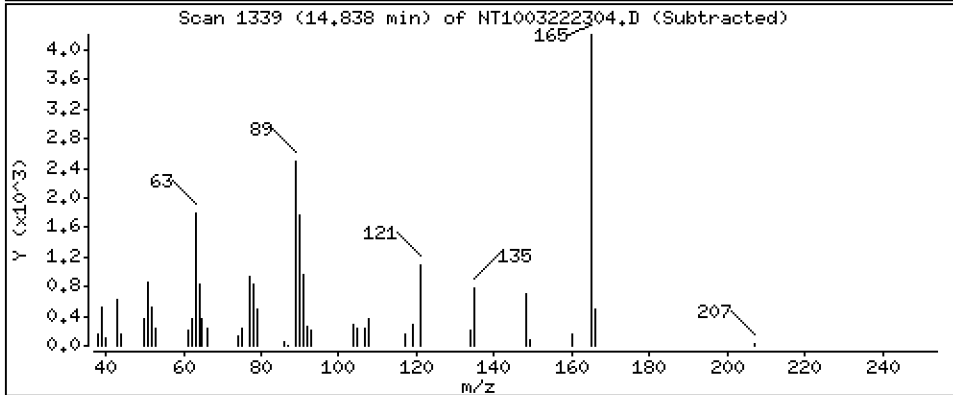
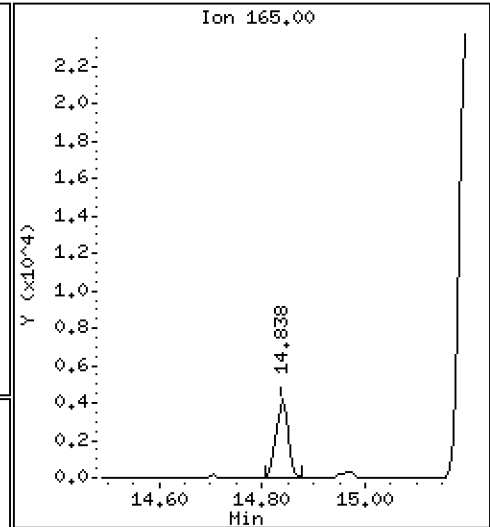
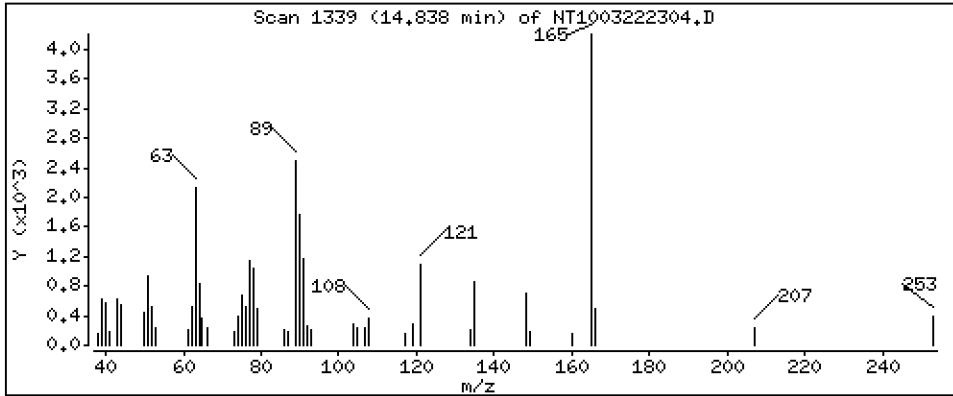
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 0.3243 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

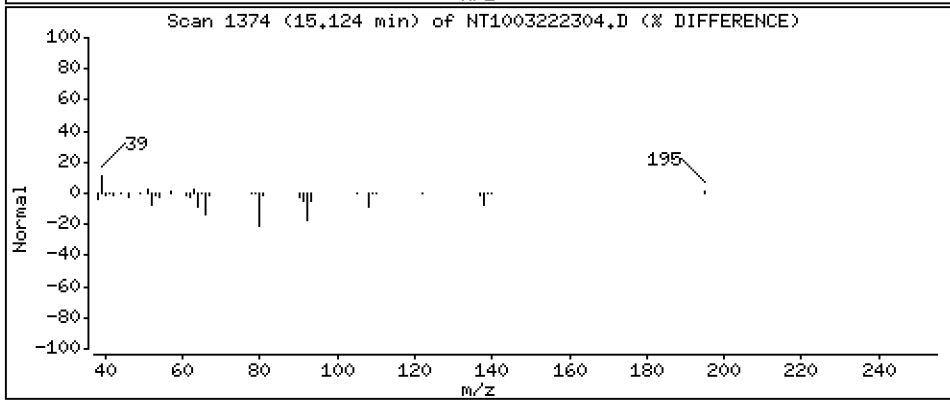
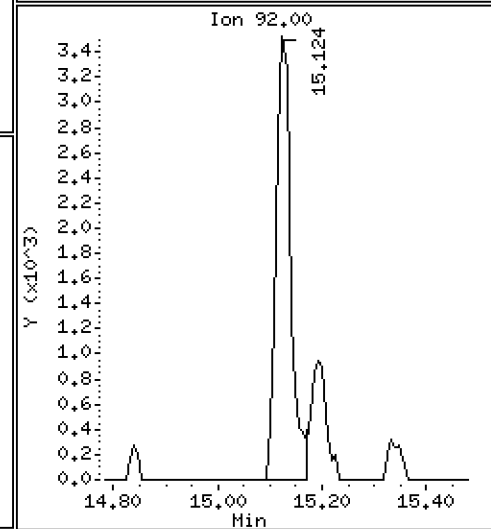
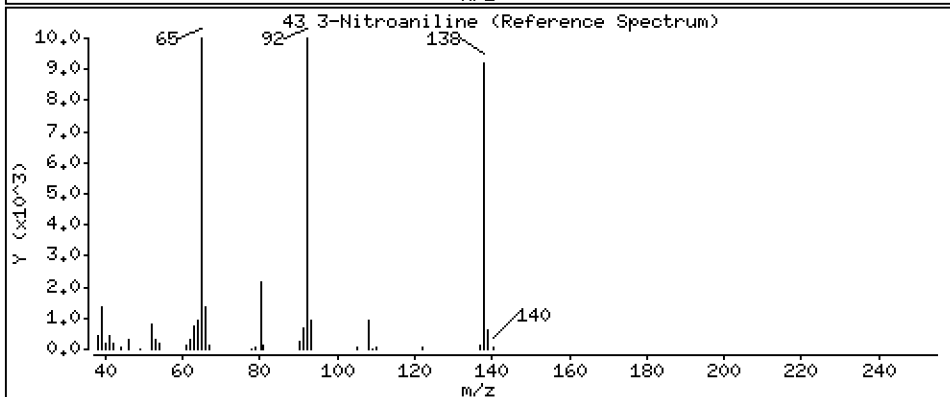
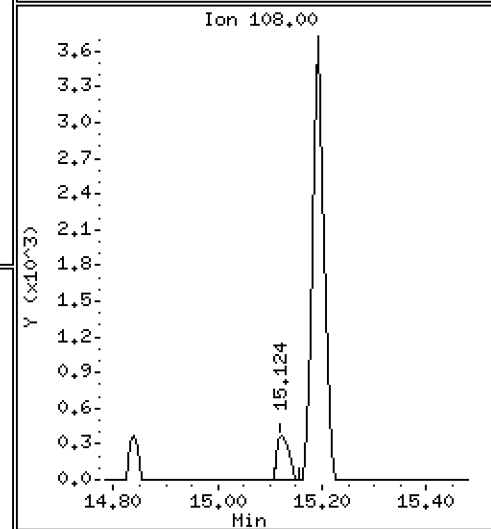
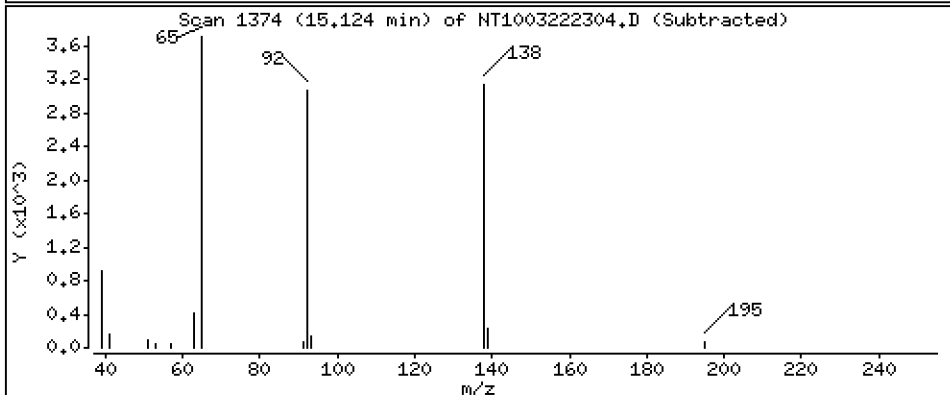
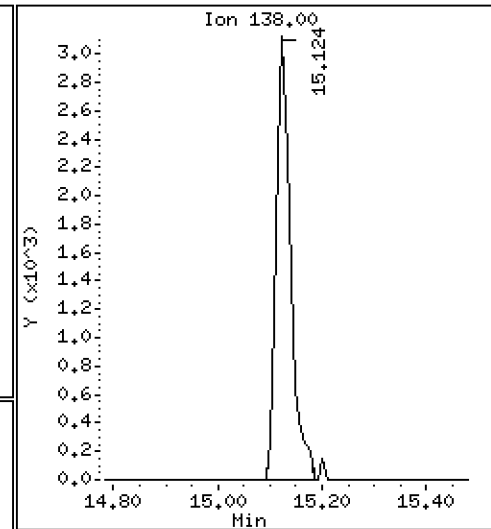
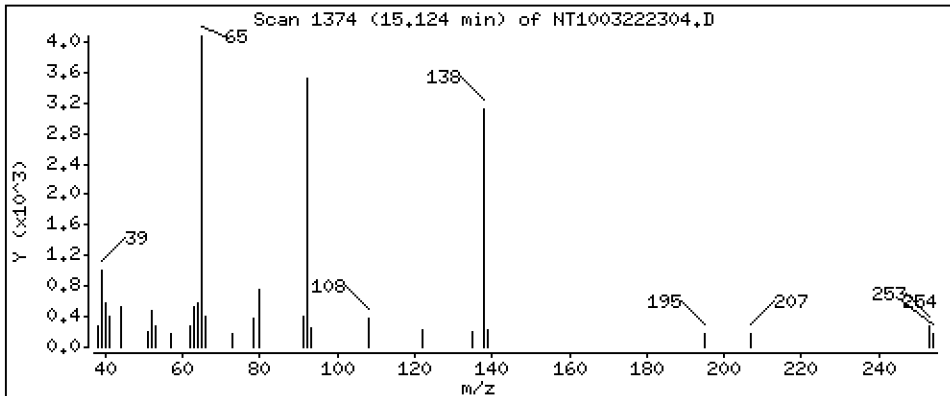
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

43 3-Nitroaniline

Concentration: 0.2629 ug/mL





Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

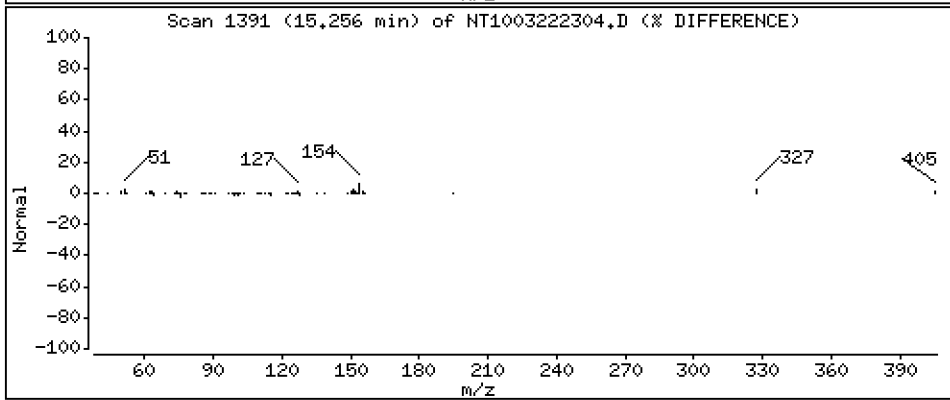
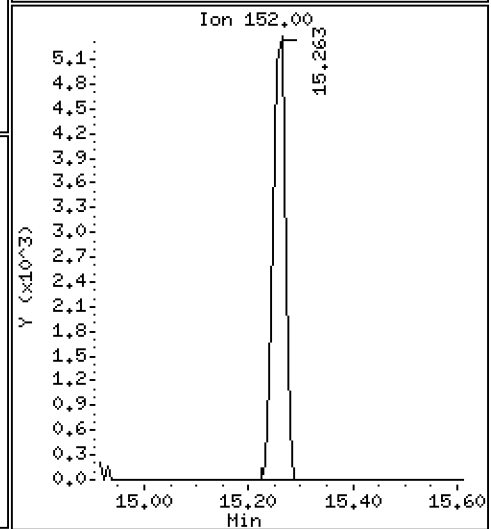
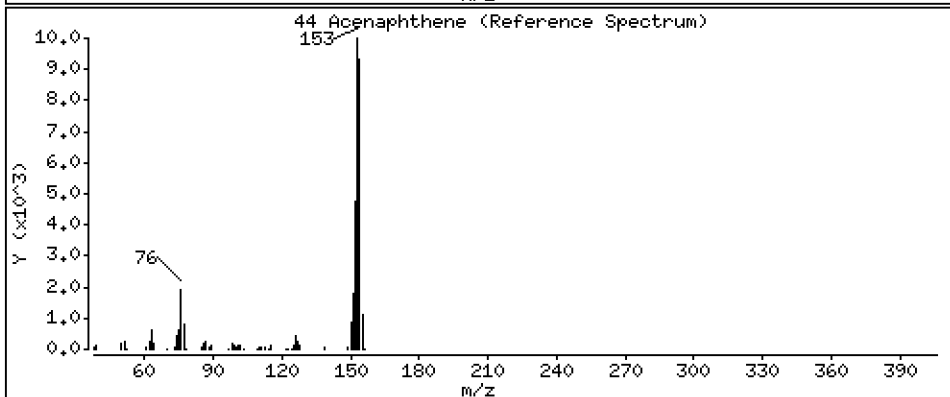
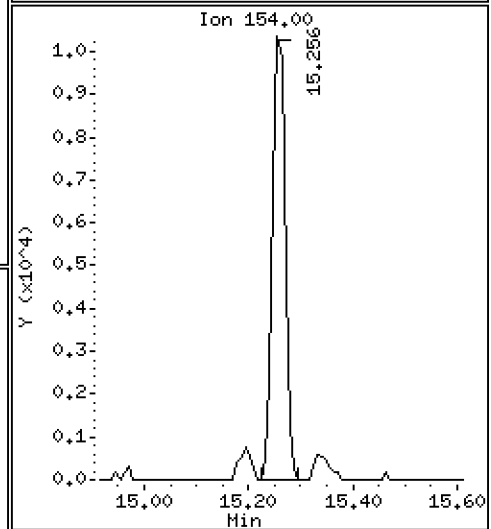
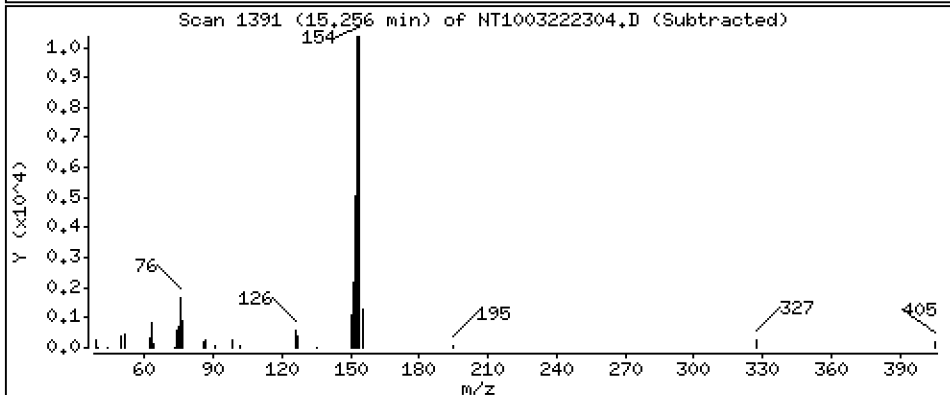
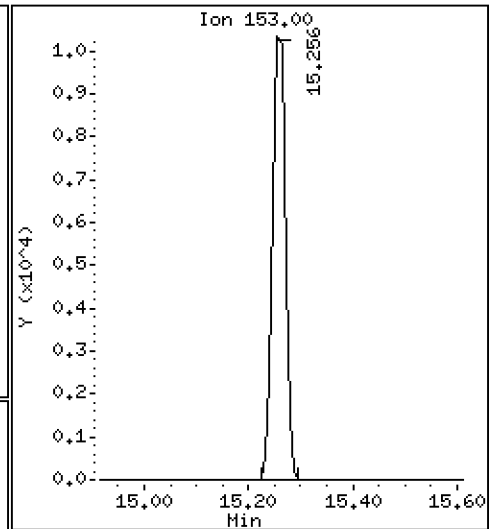
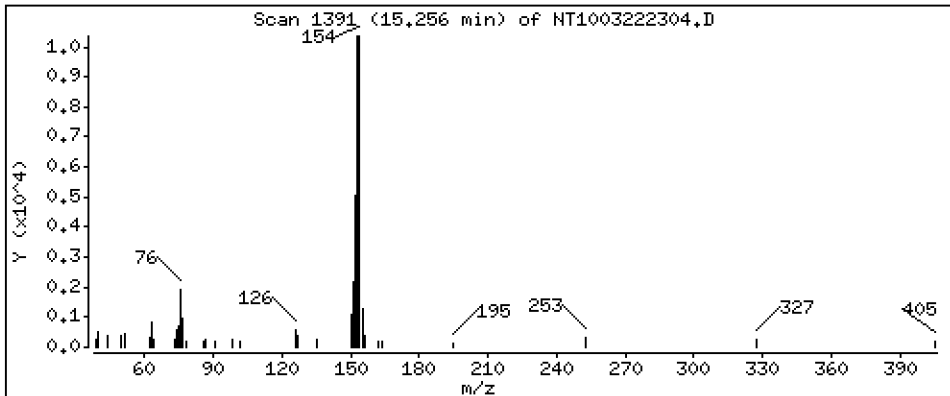
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,1979 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

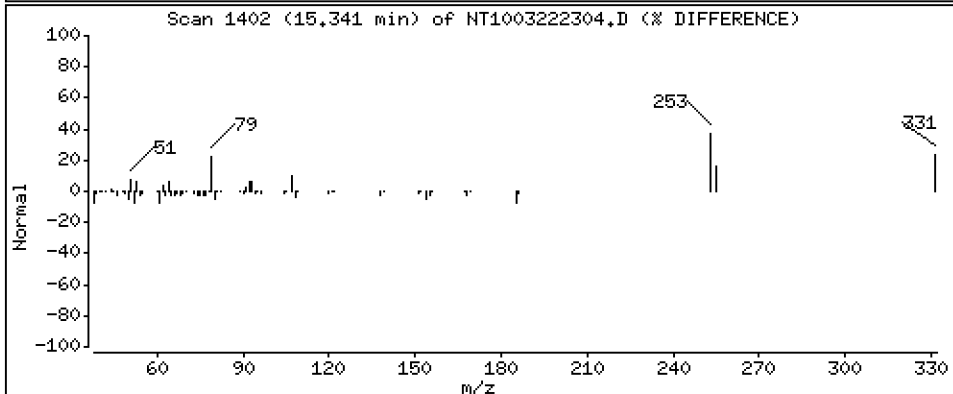
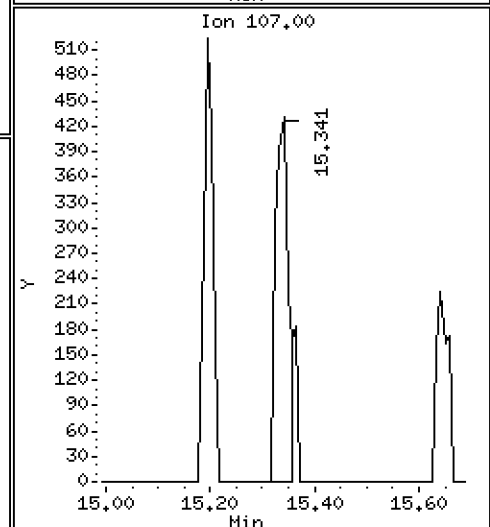
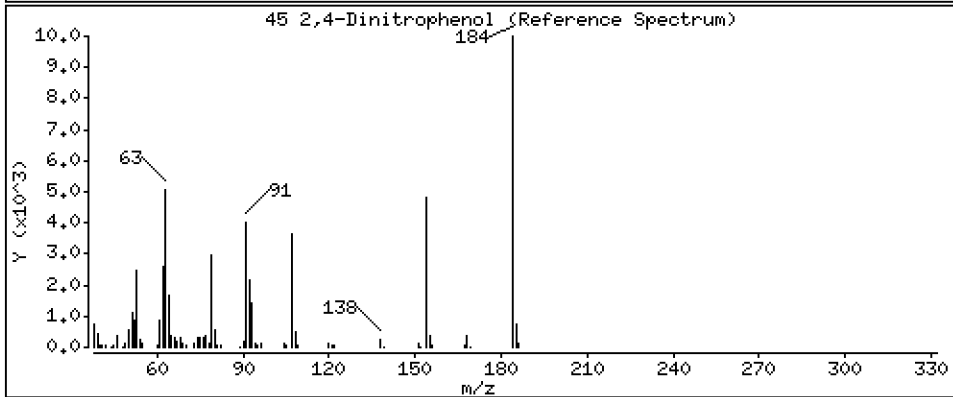
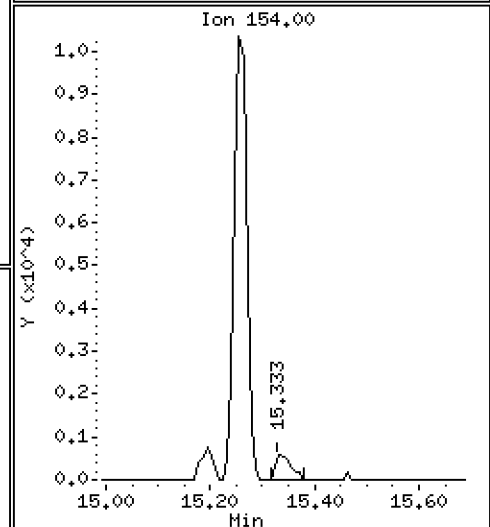
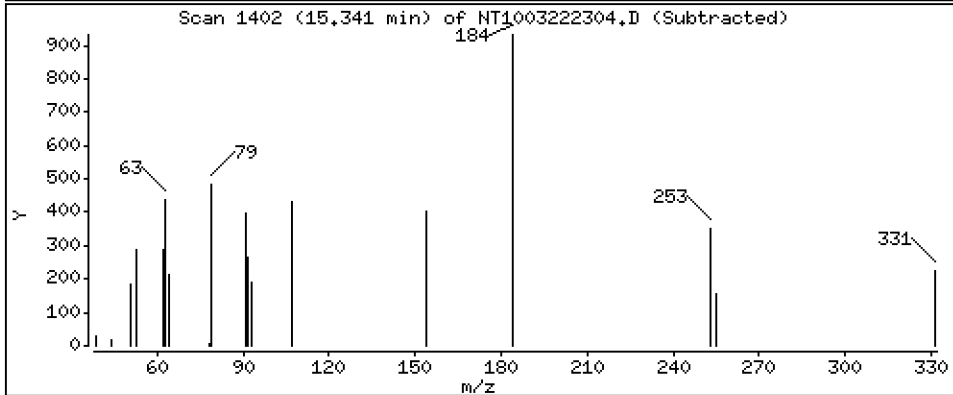
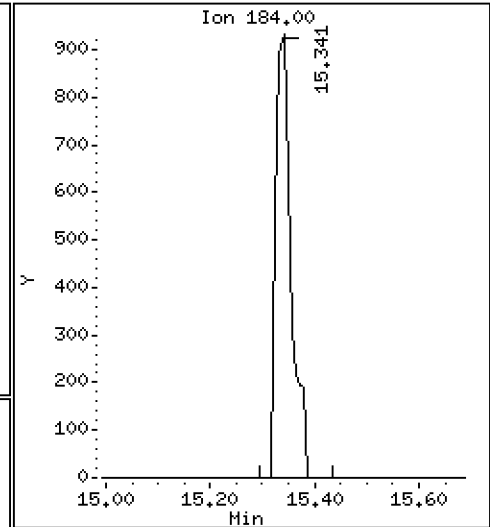
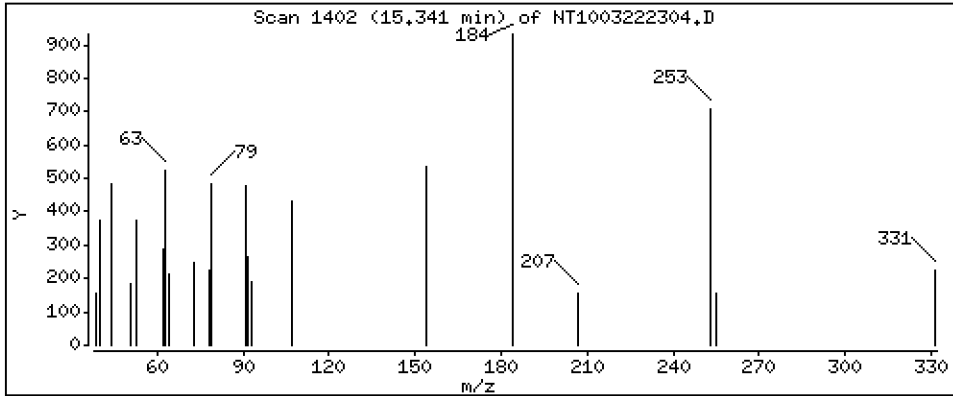
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,1555 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

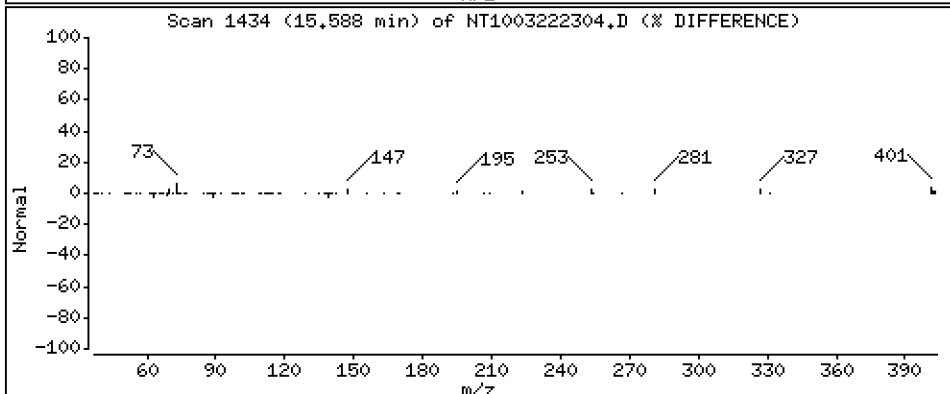
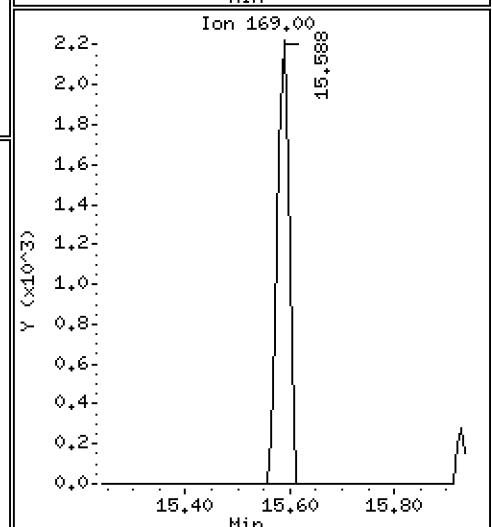
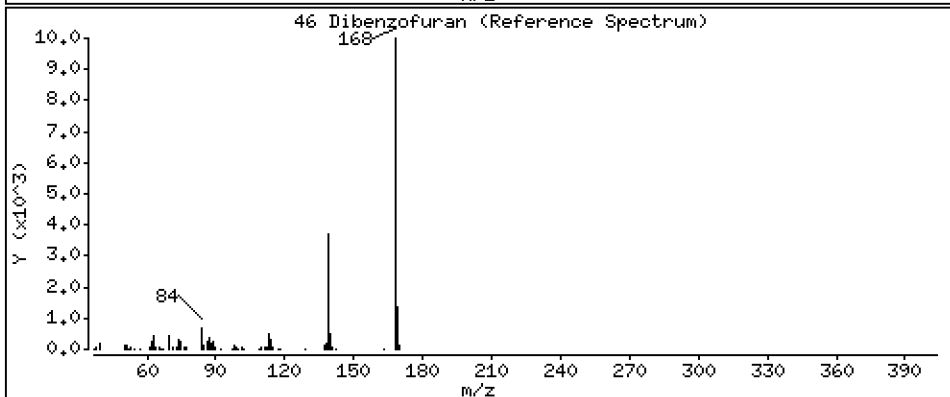
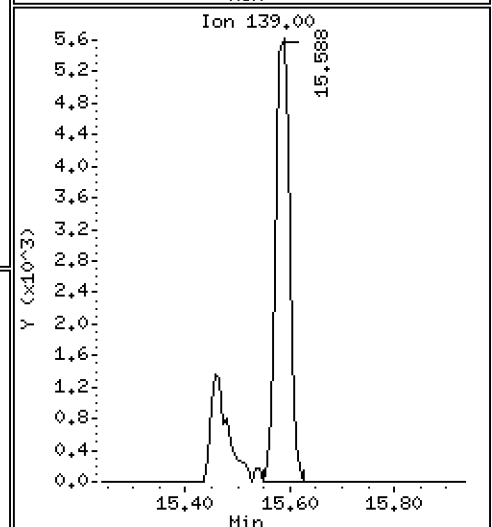
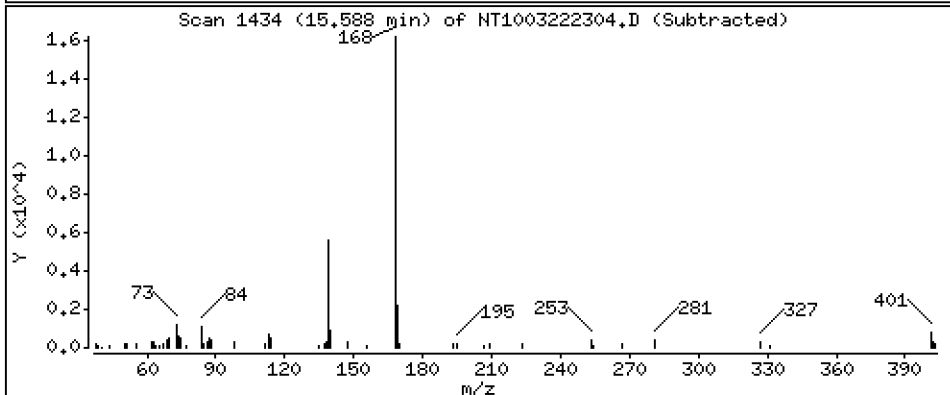
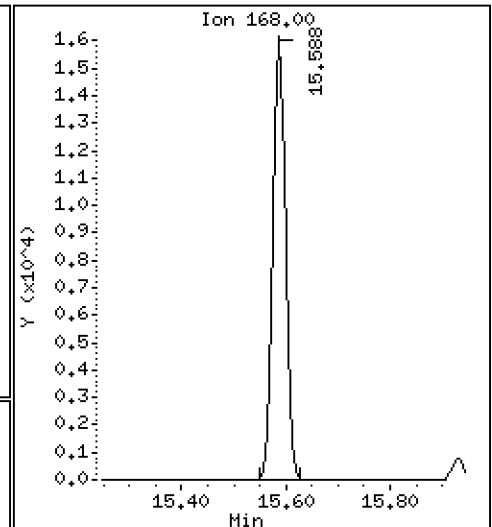
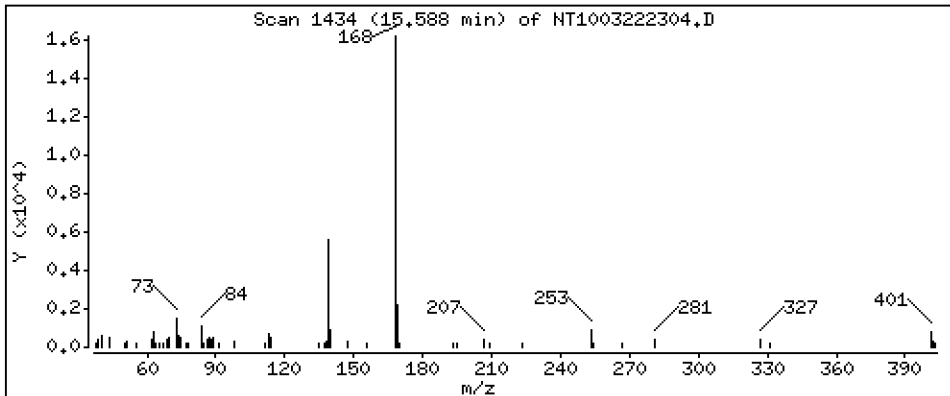
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,2034 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

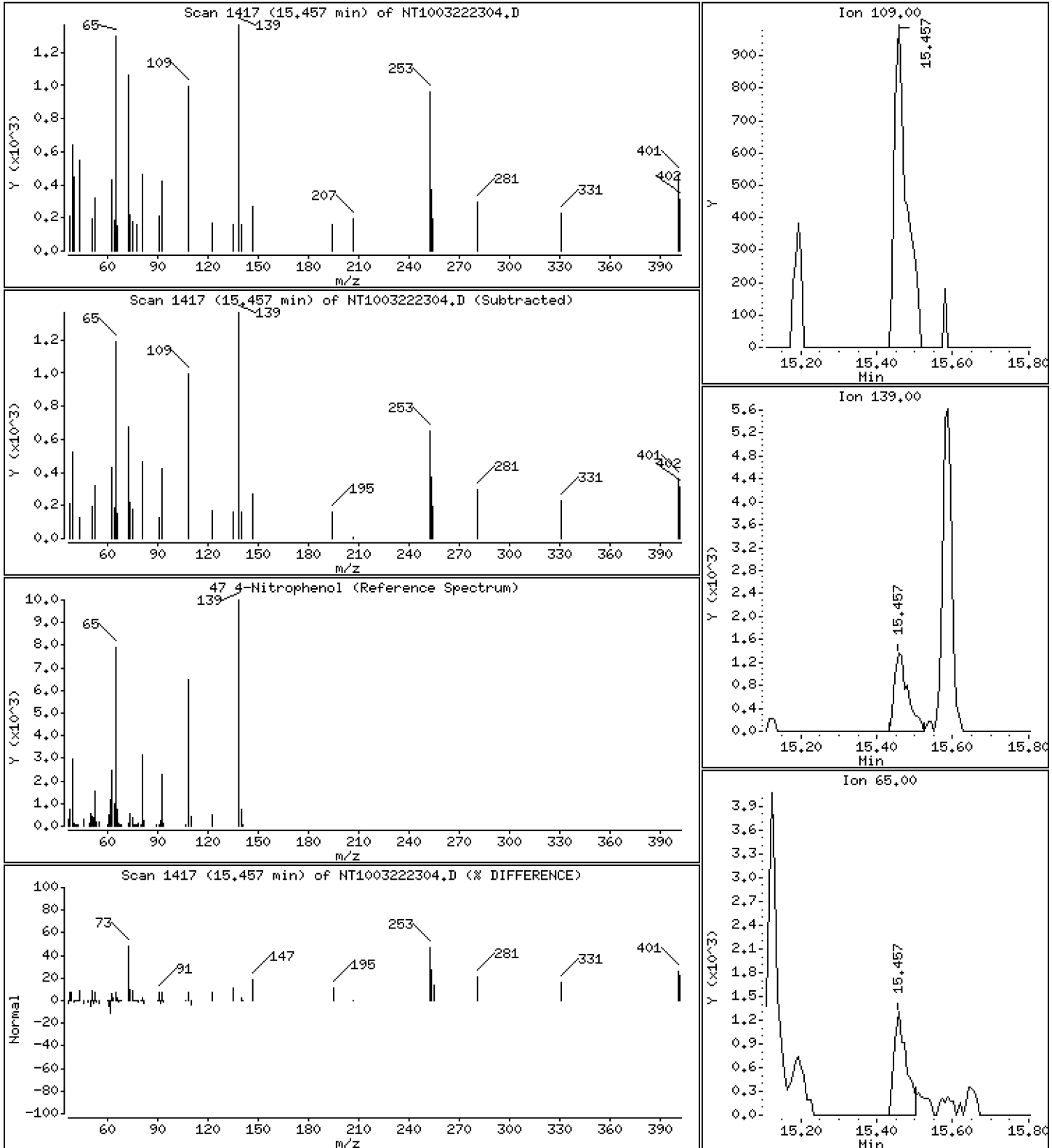
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,1585 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

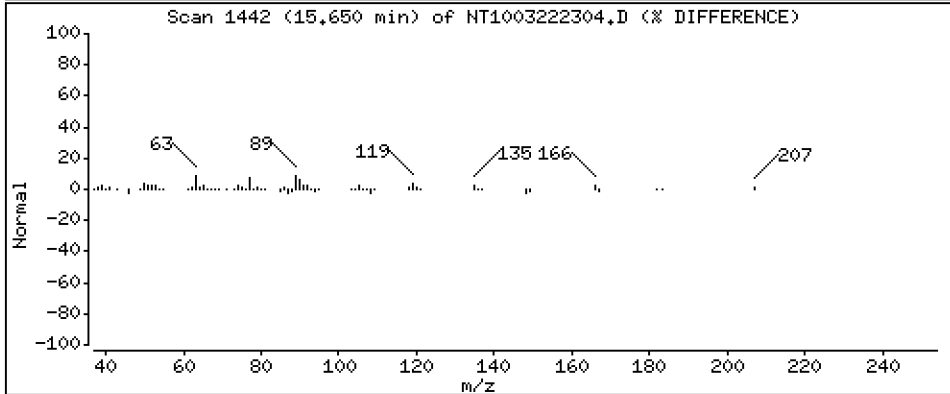
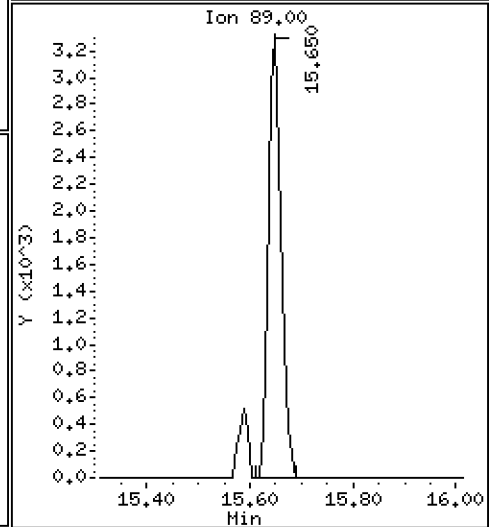
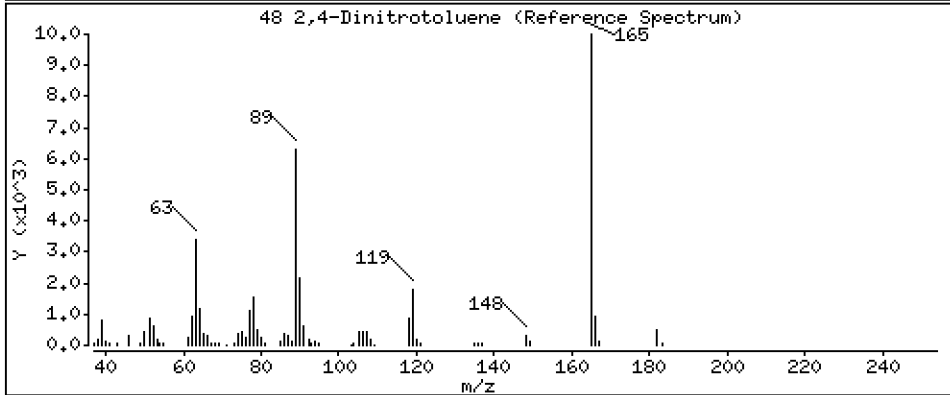
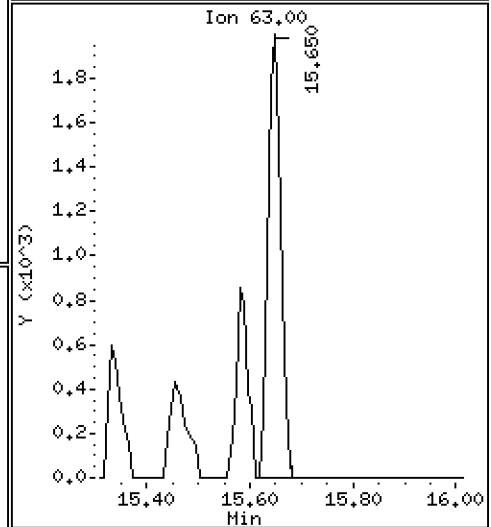
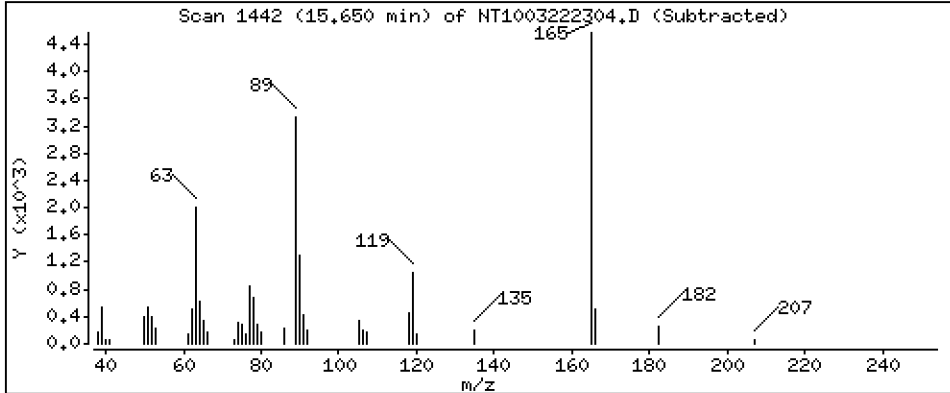
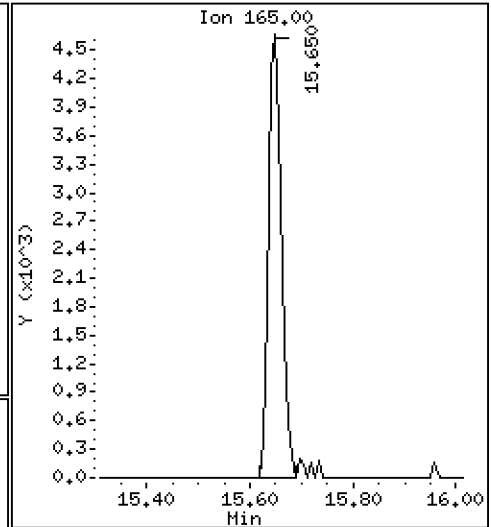
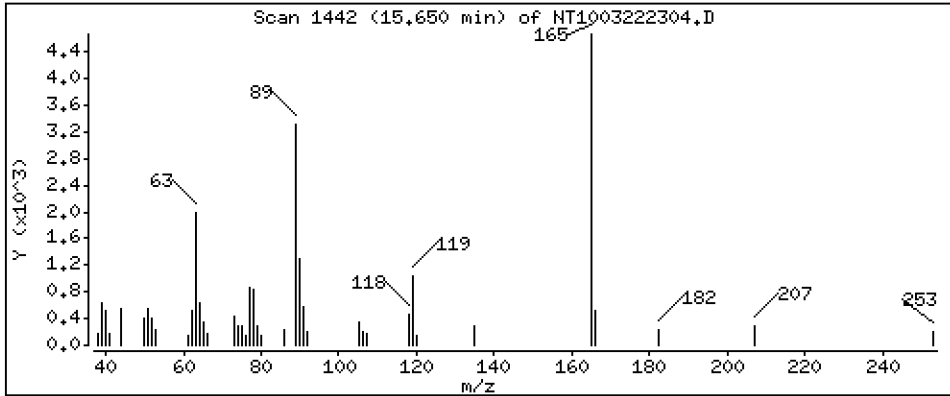
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 0,2693 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

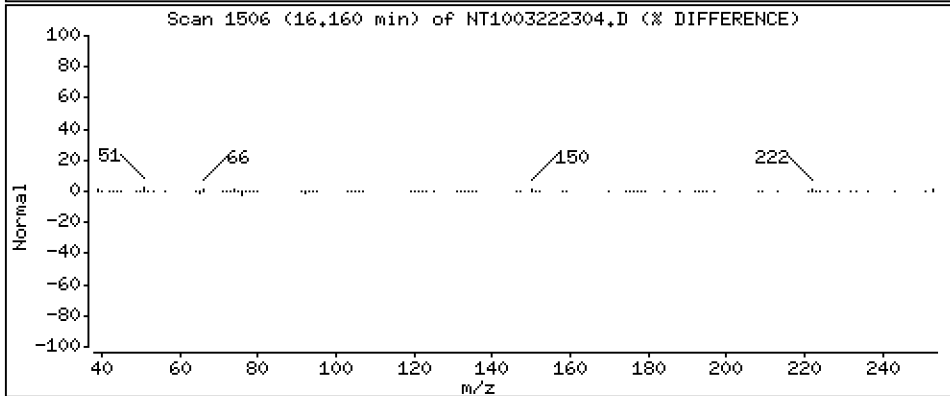
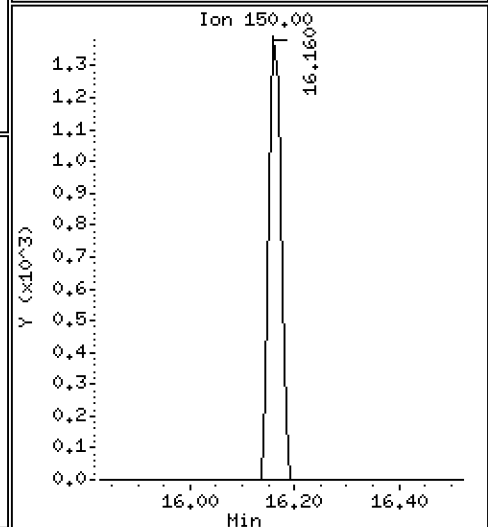
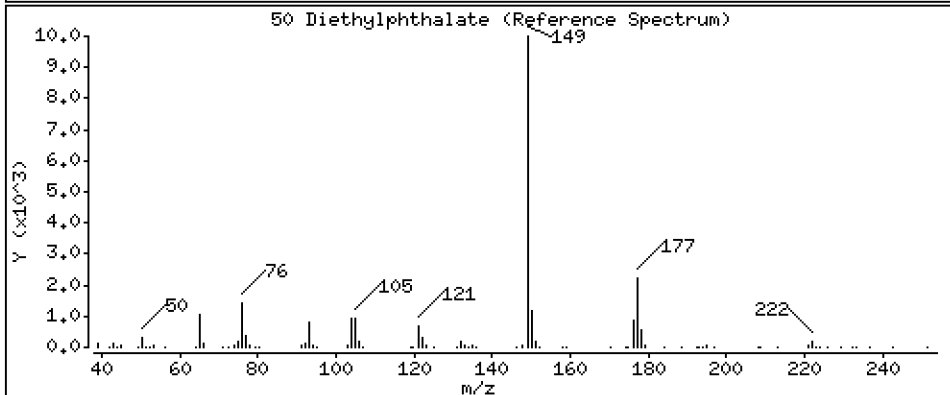
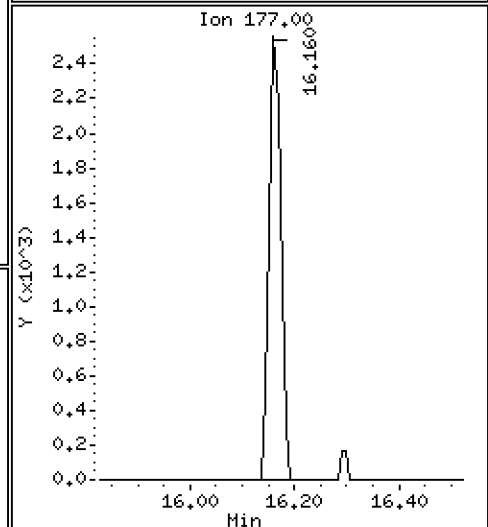
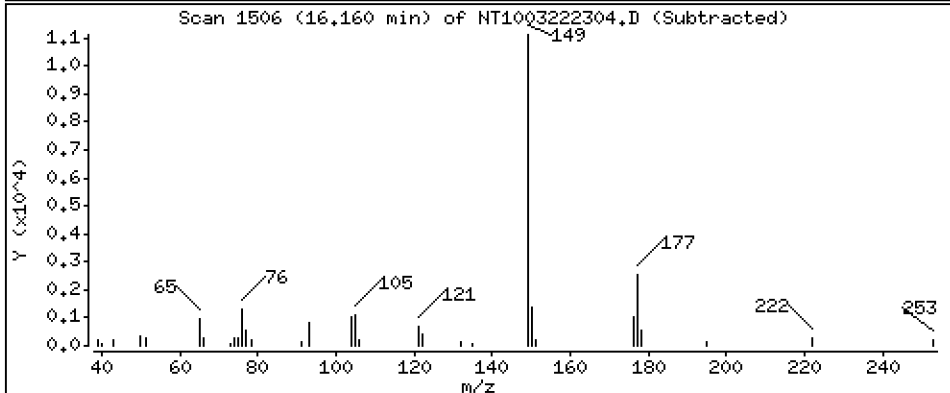
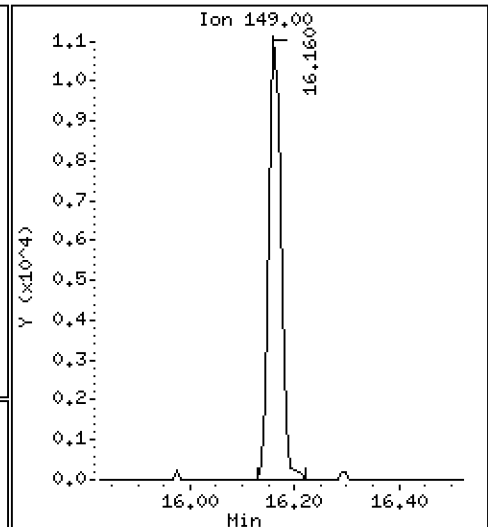
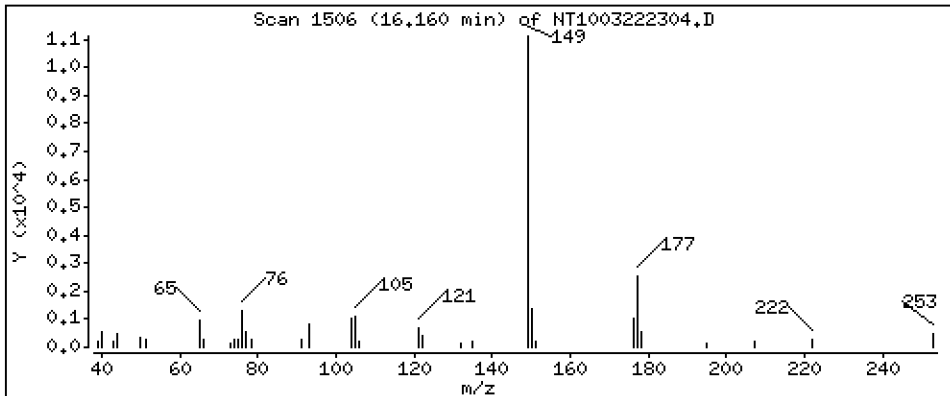
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2293 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

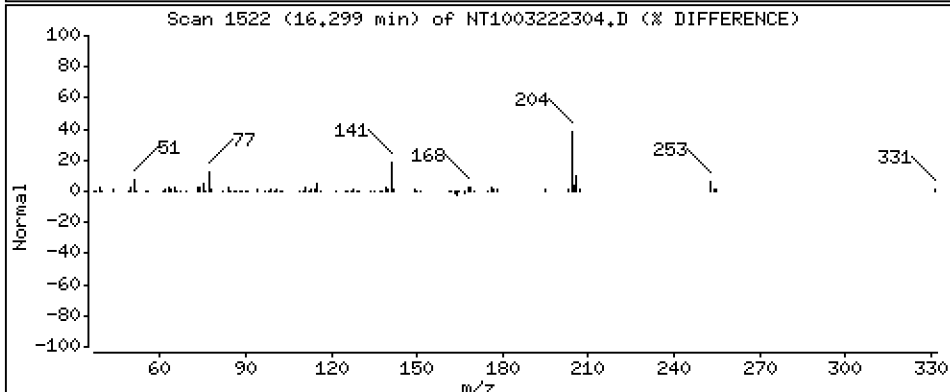
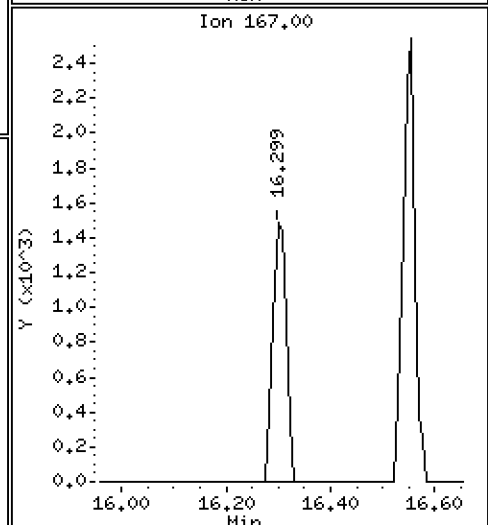
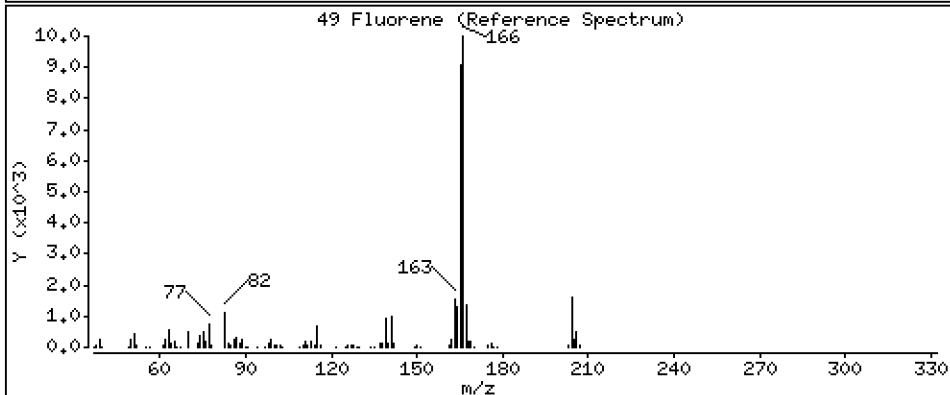
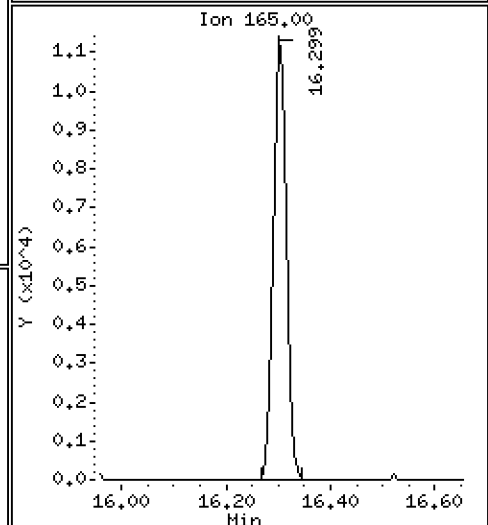
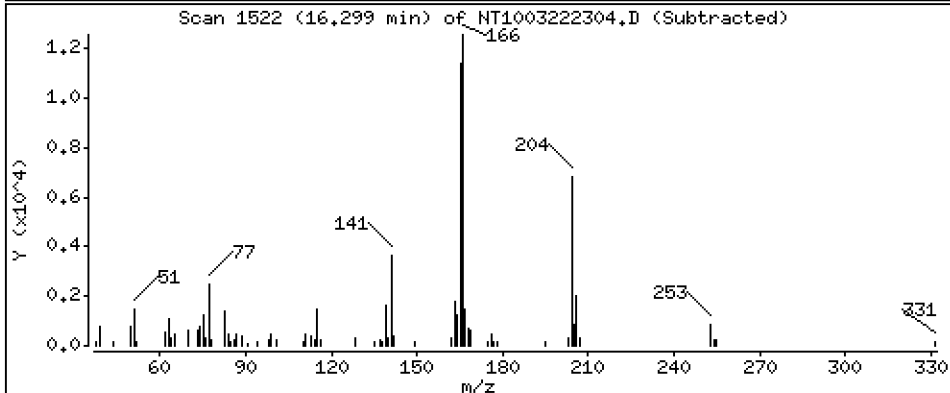
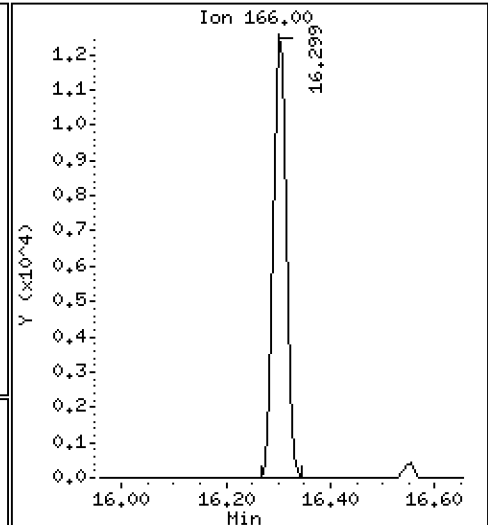
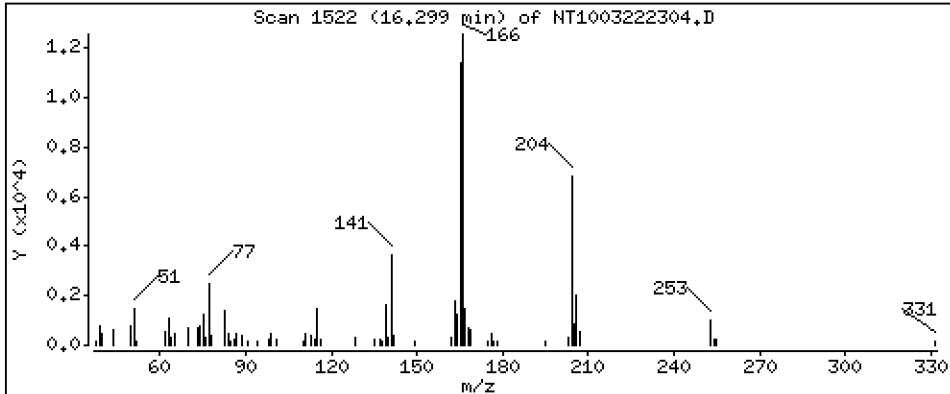
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,2106 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

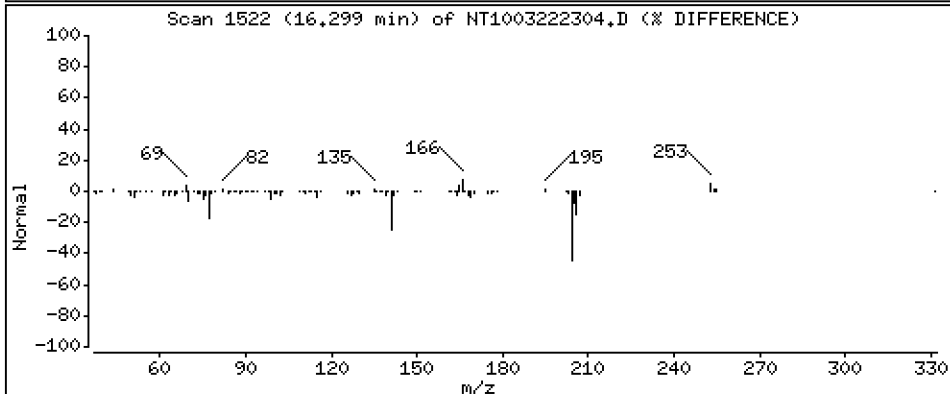
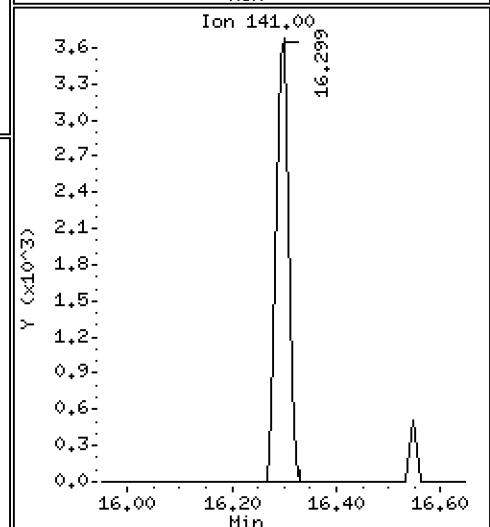
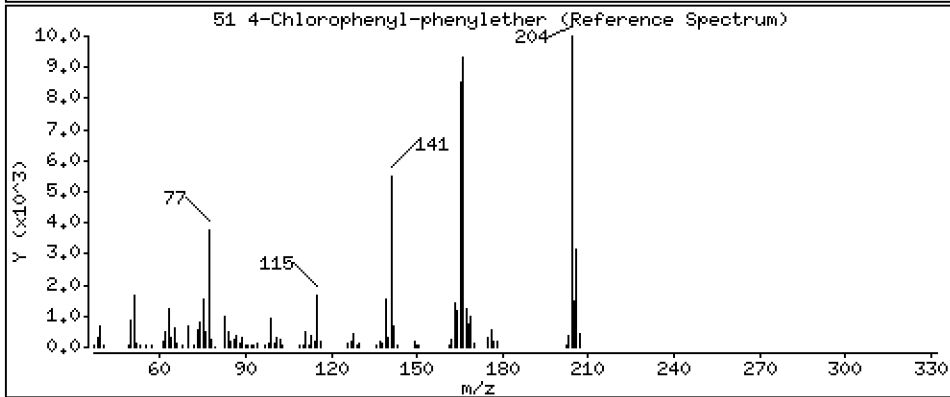
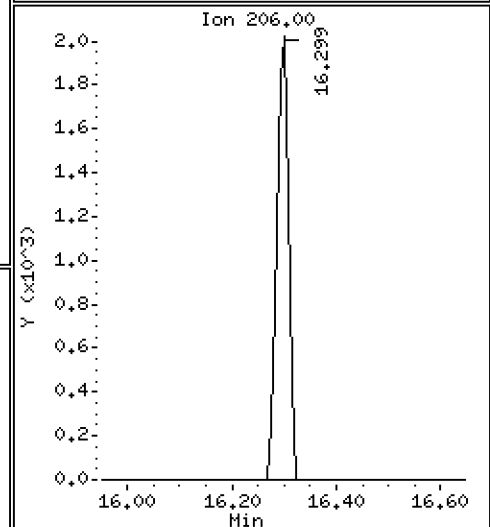
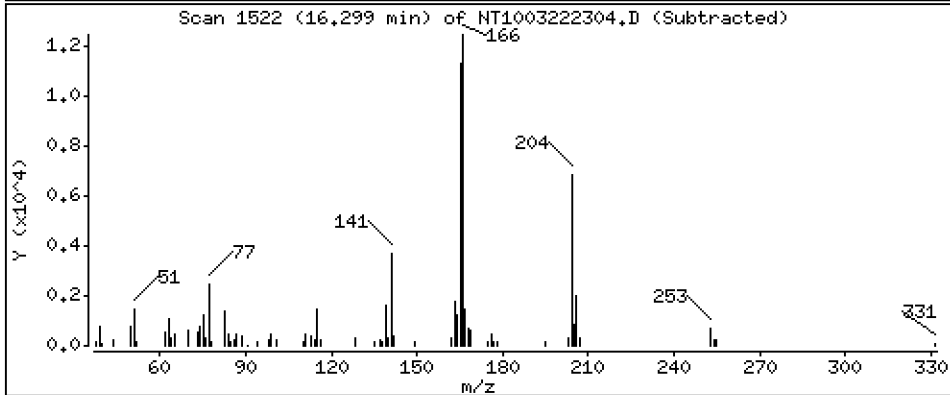
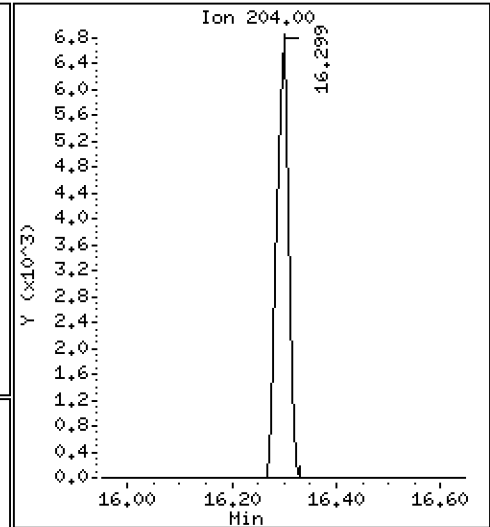
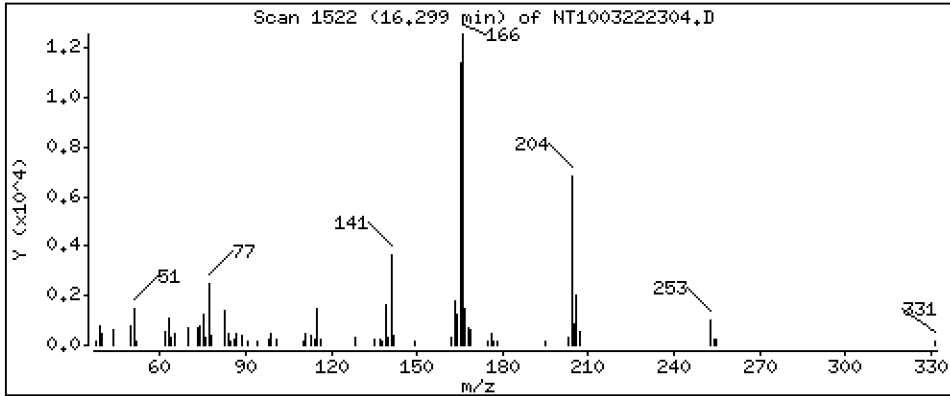
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,2215 ug/mL





Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

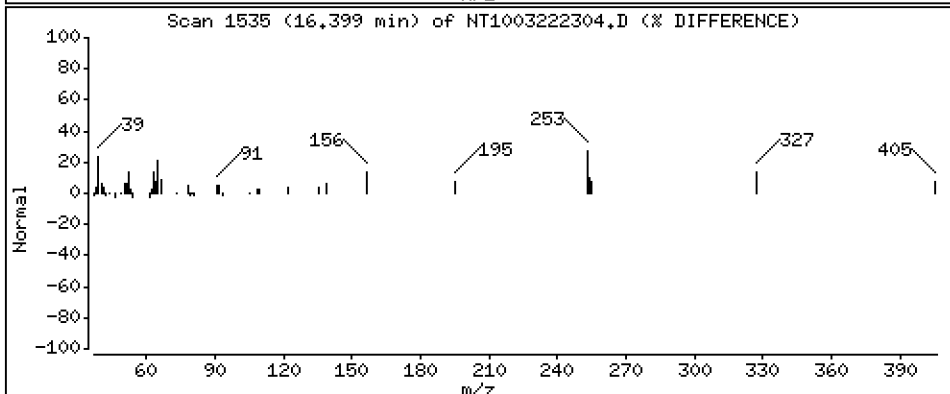
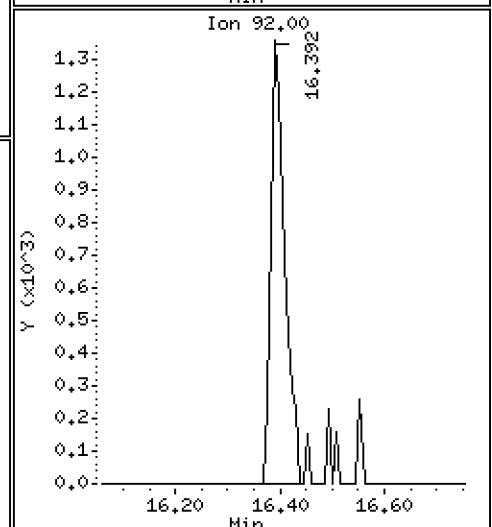
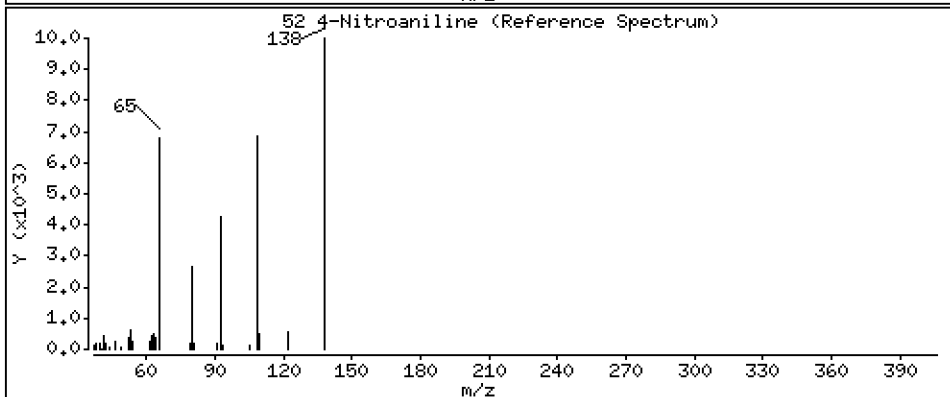
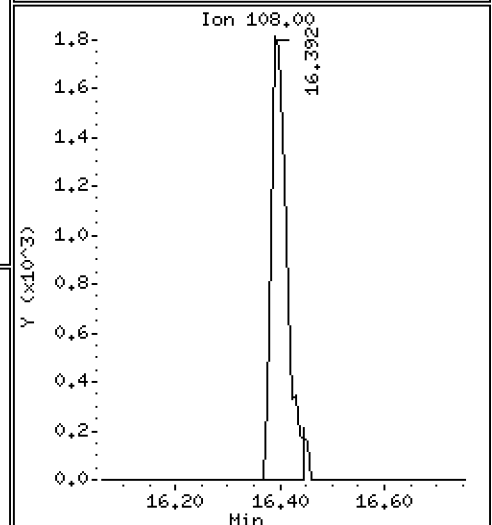
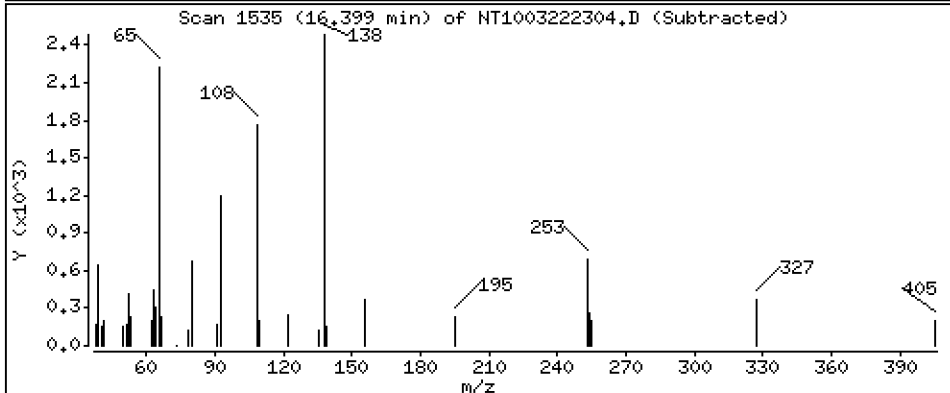
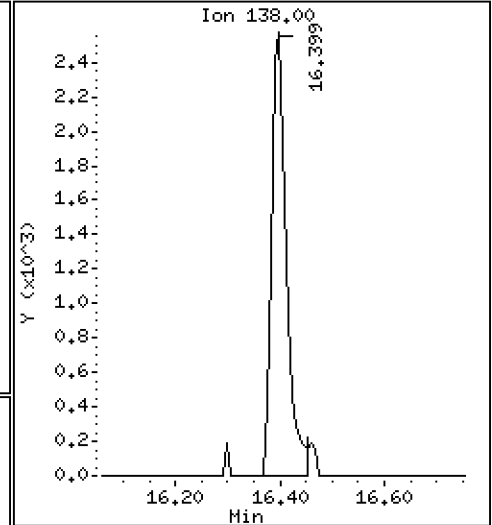
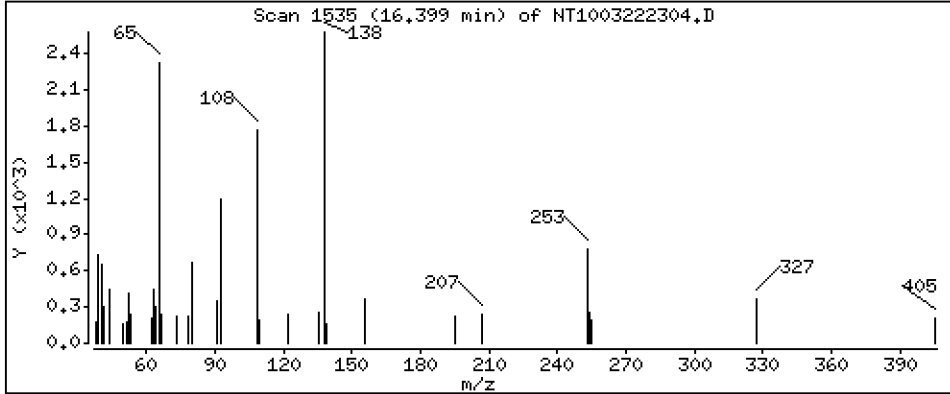
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,2456 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

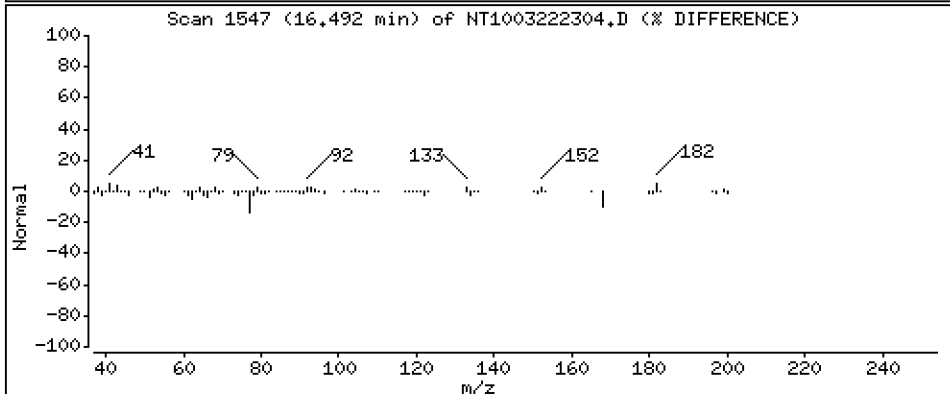
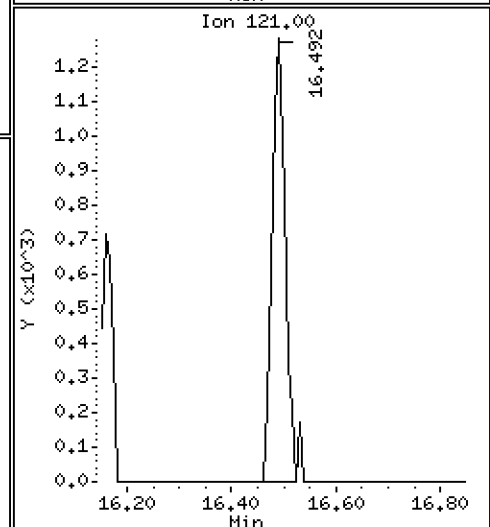
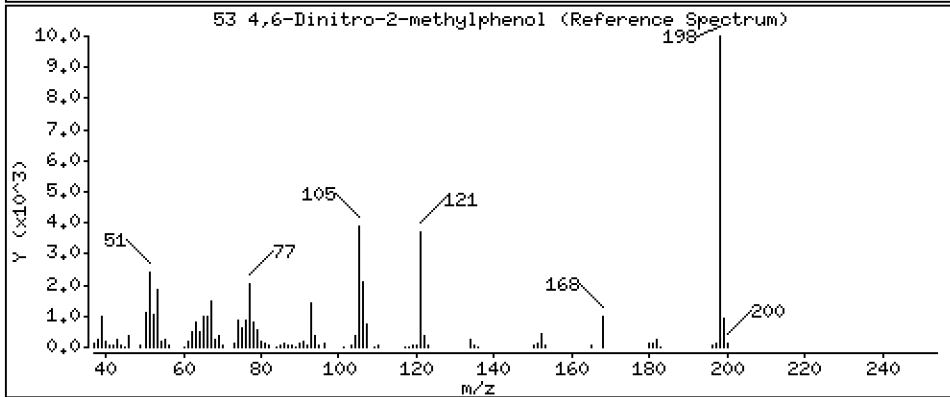
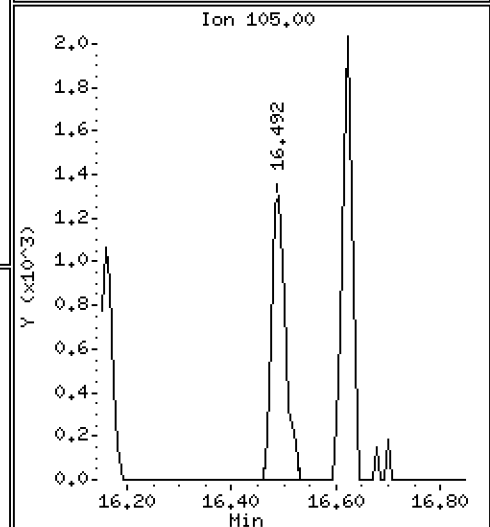
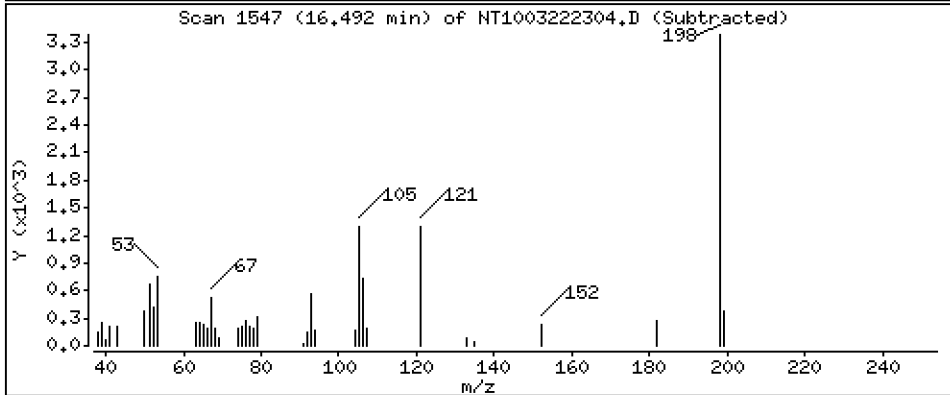
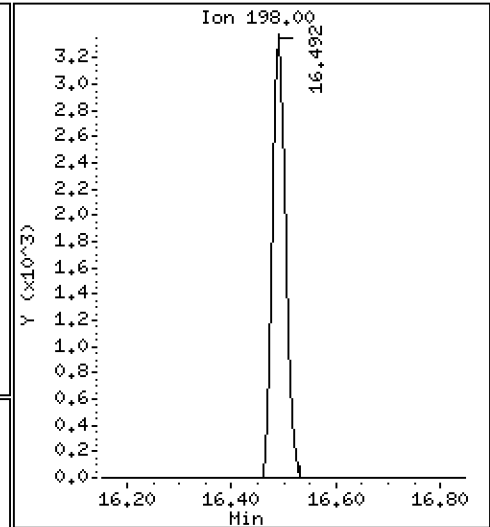
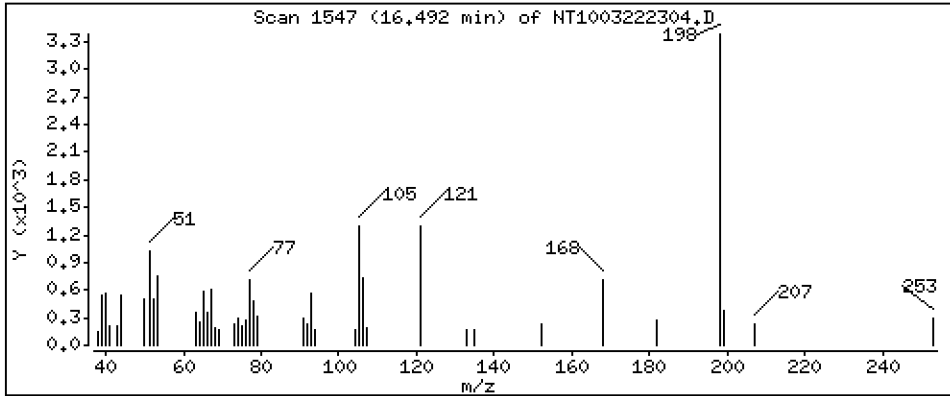
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,3731 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

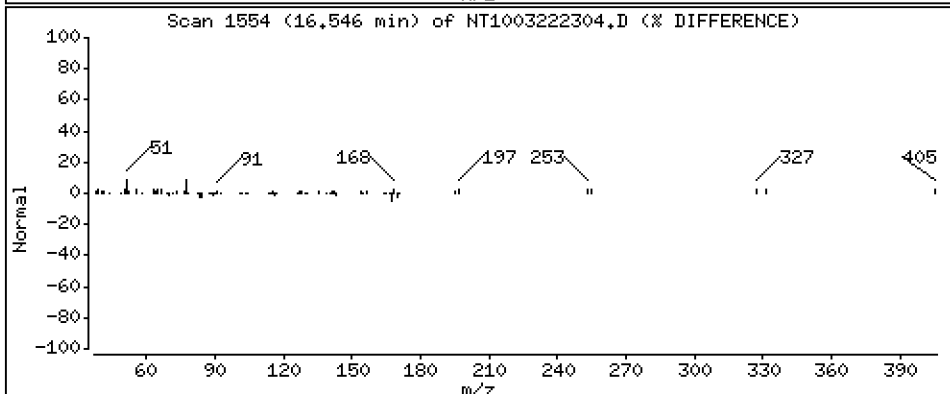
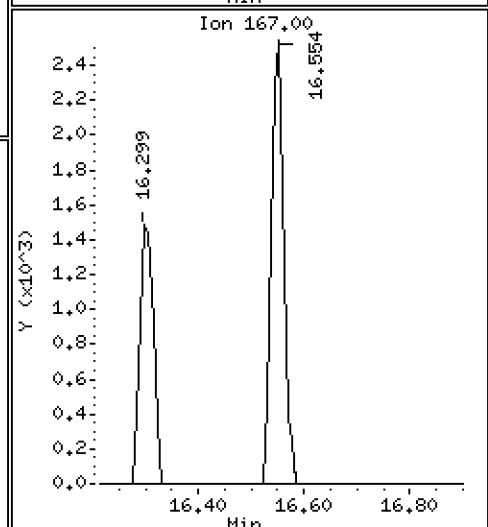
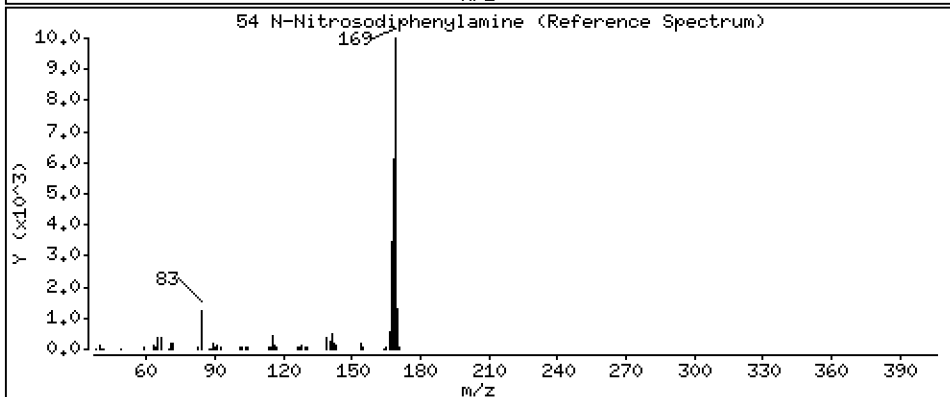
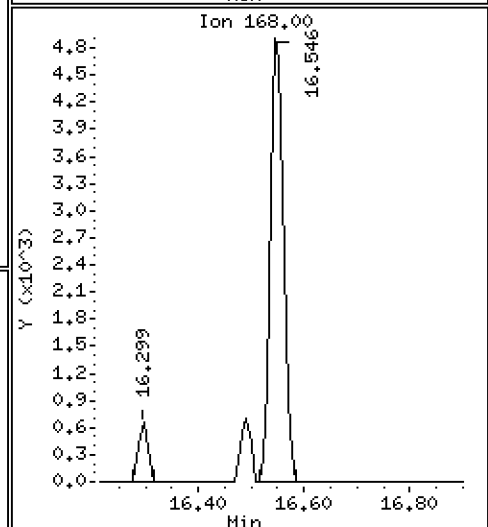
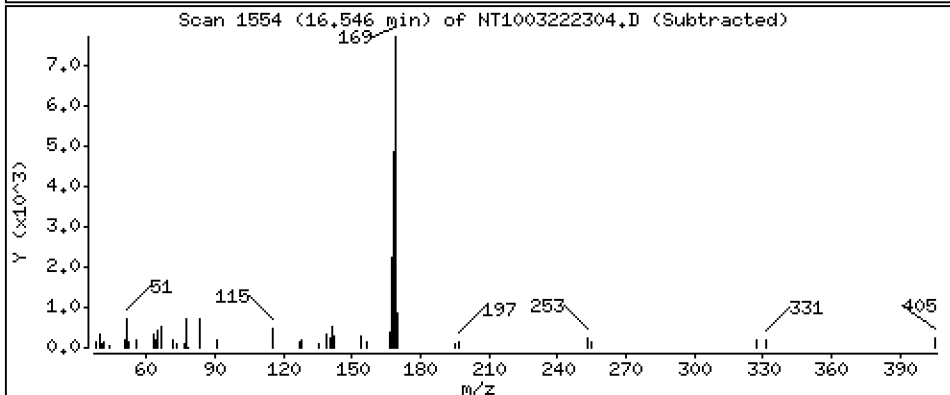
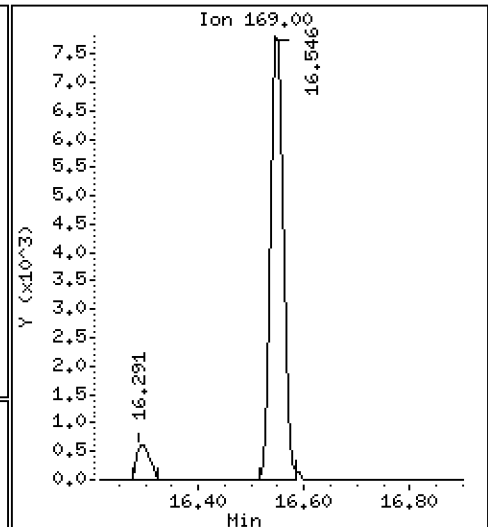
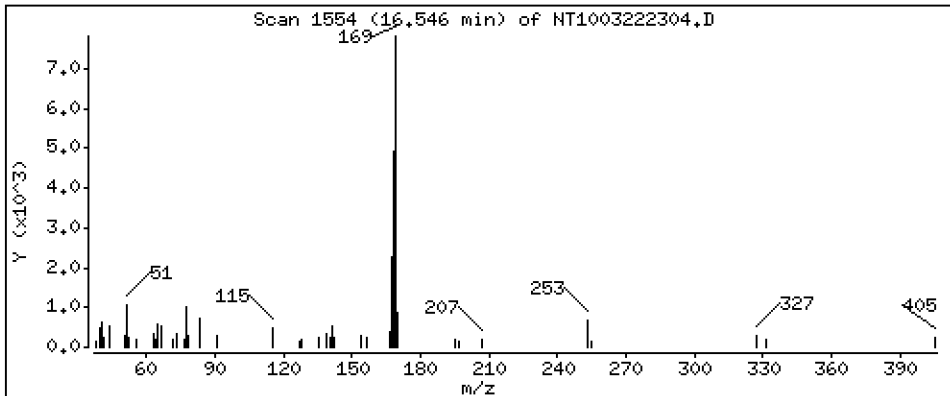
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 0.1918 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

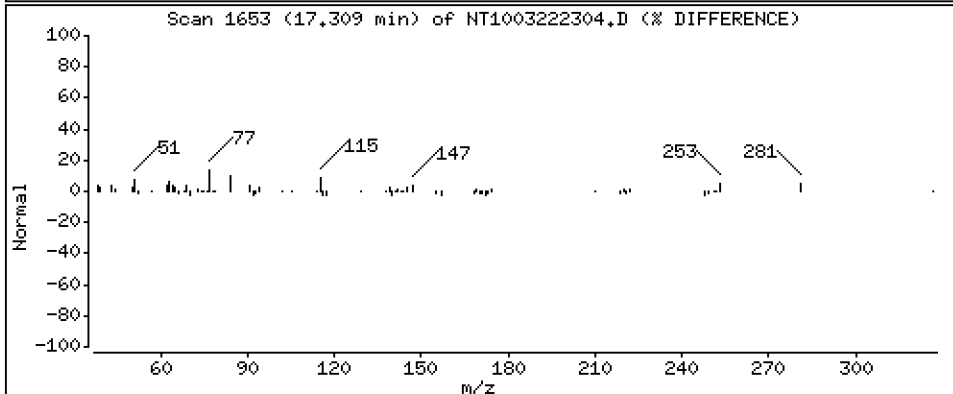
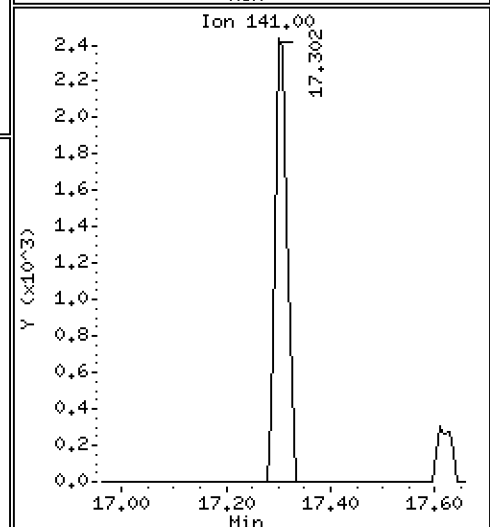
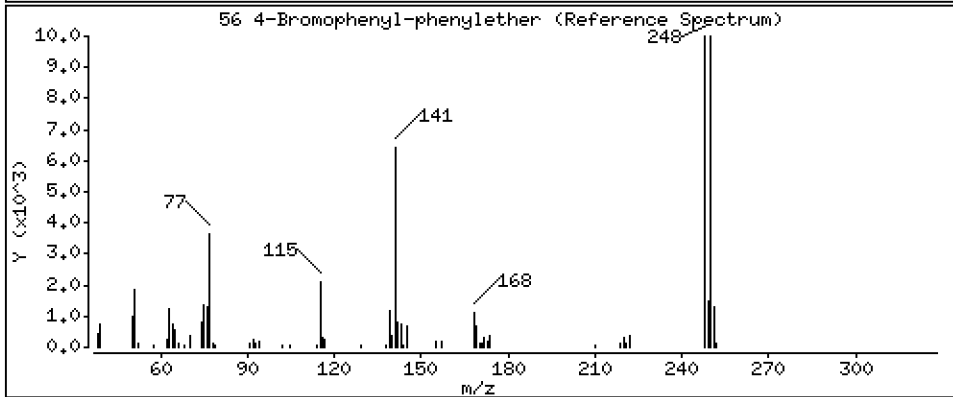
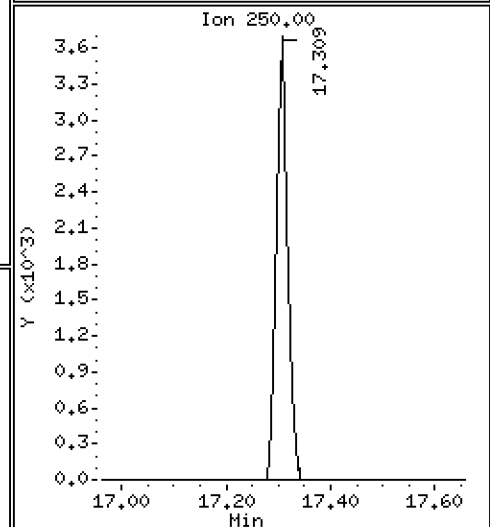
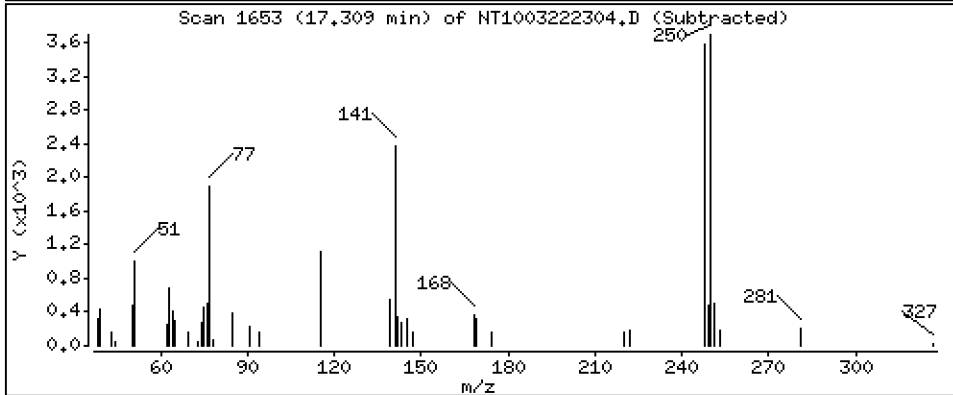
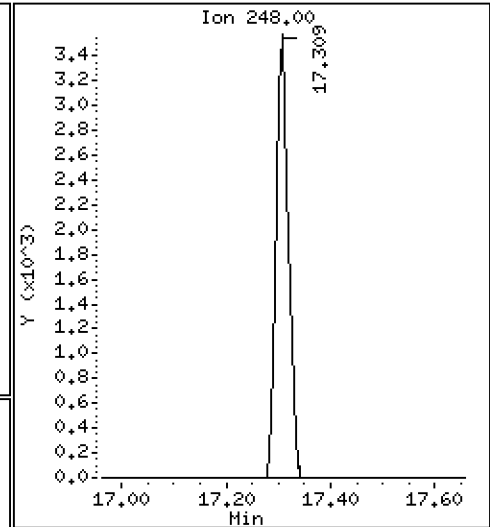
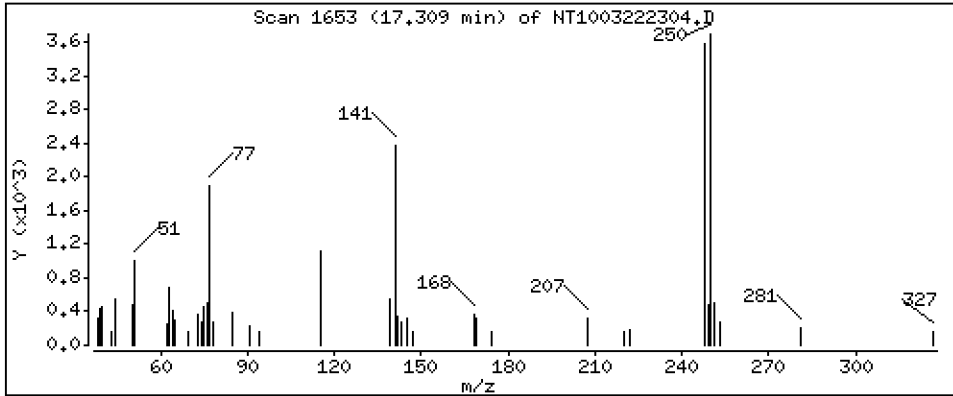
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,2055 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

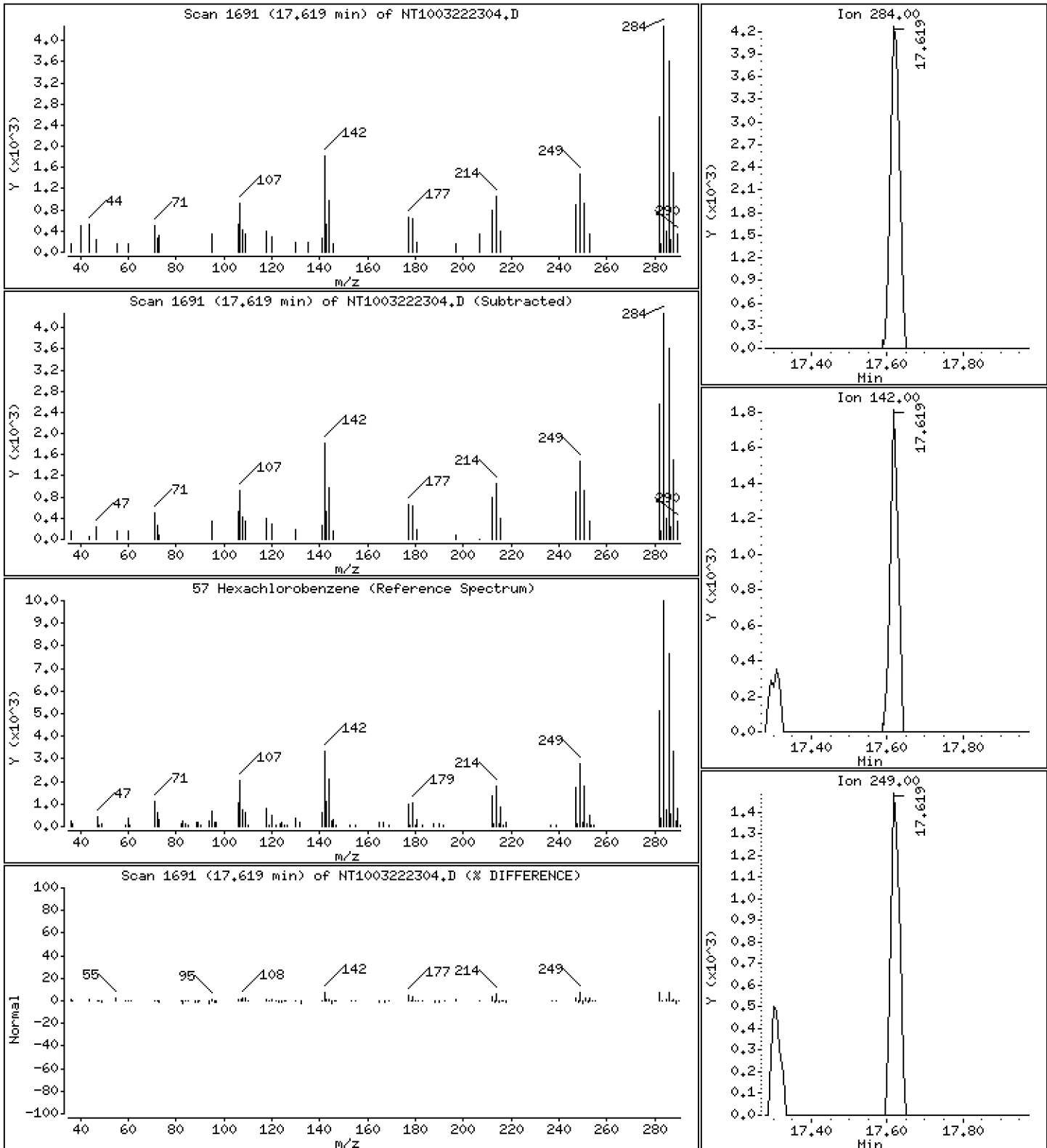
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,2361 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

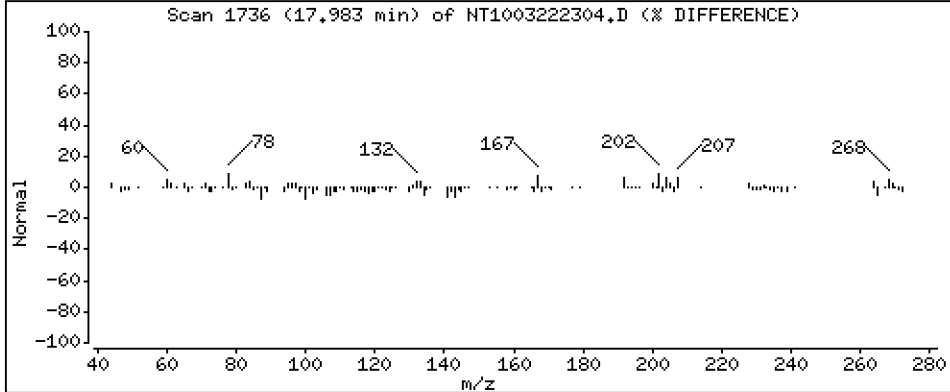
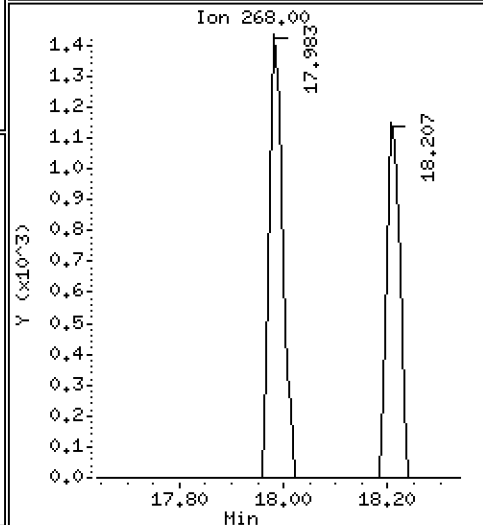
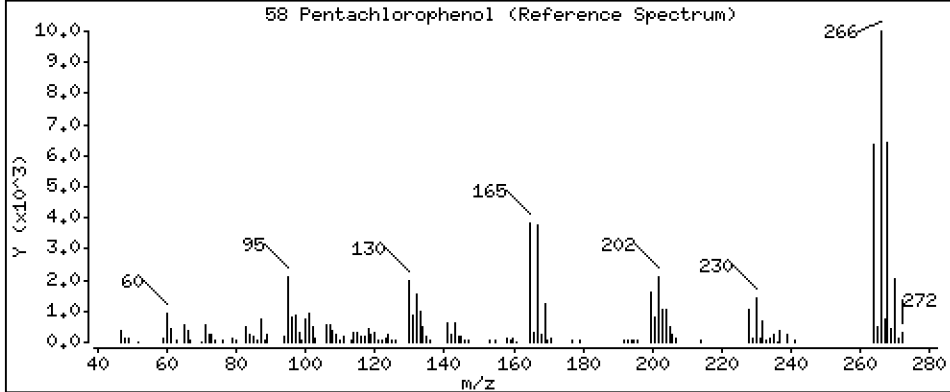
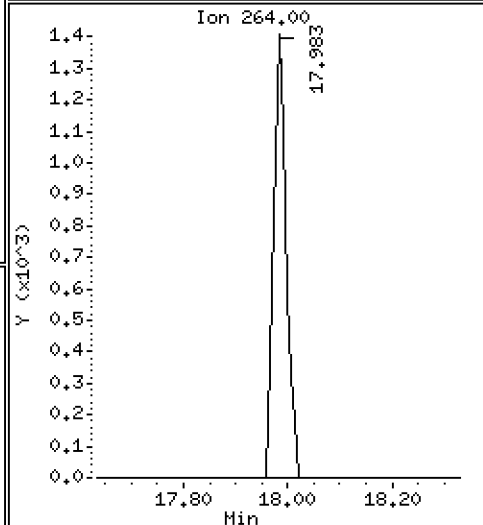
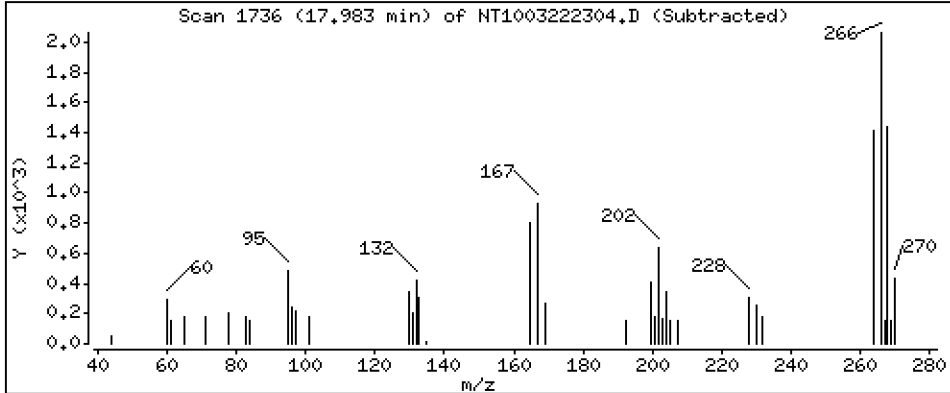
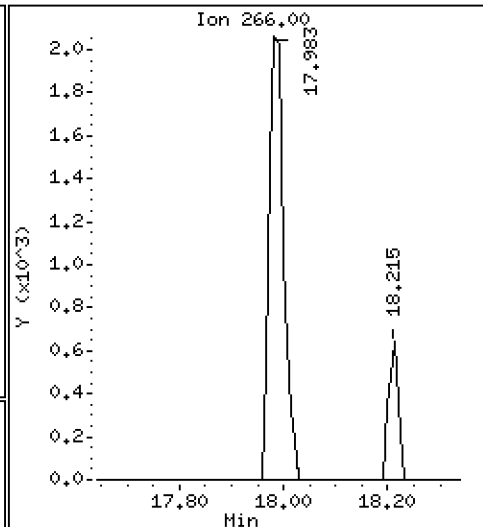
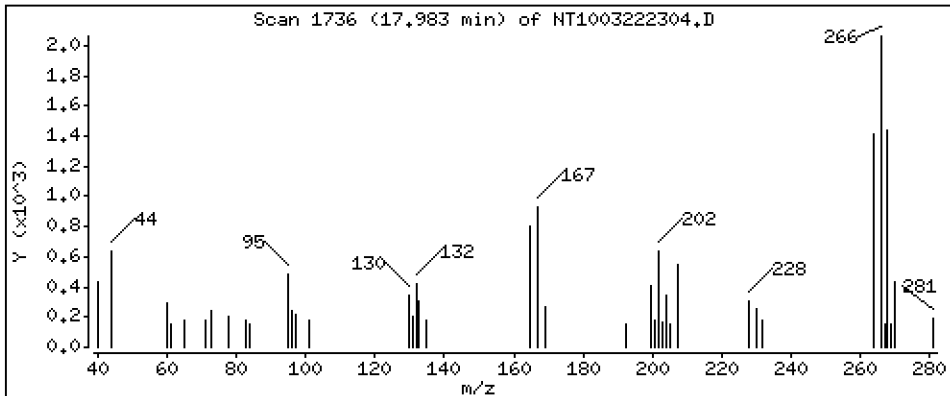
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,2209 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

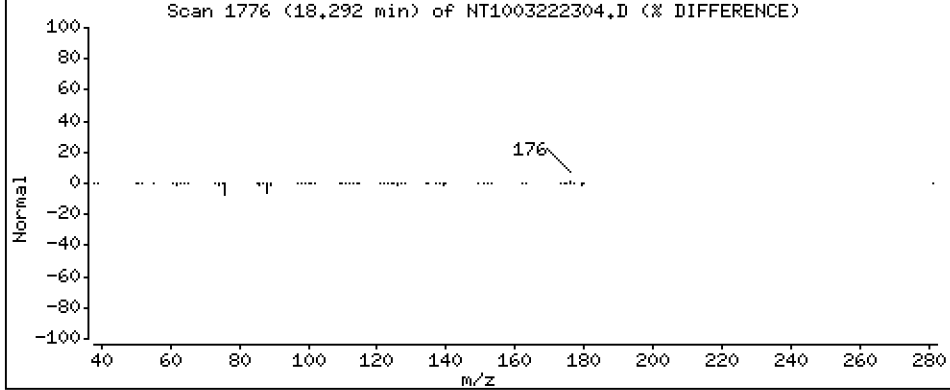
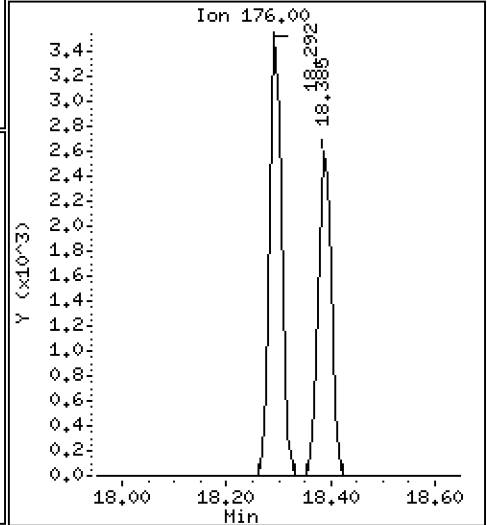
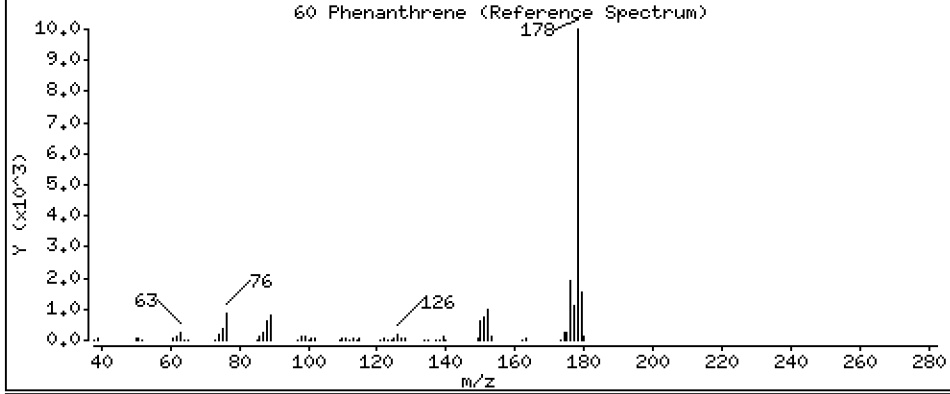
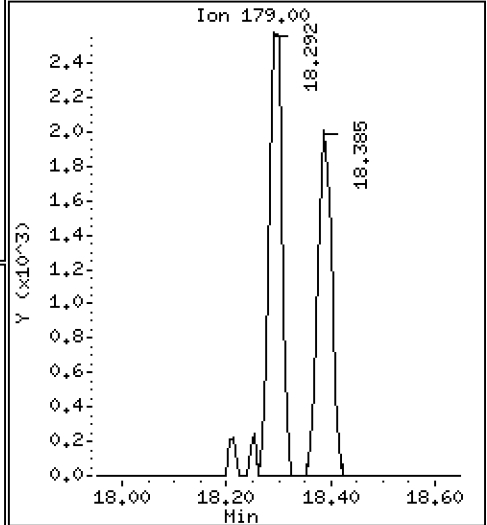
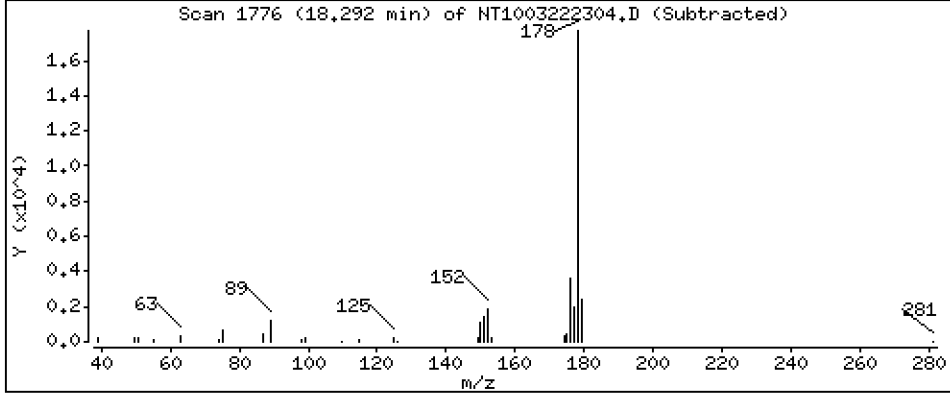
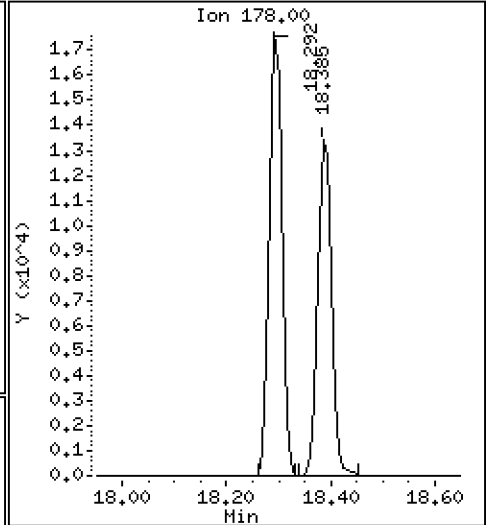
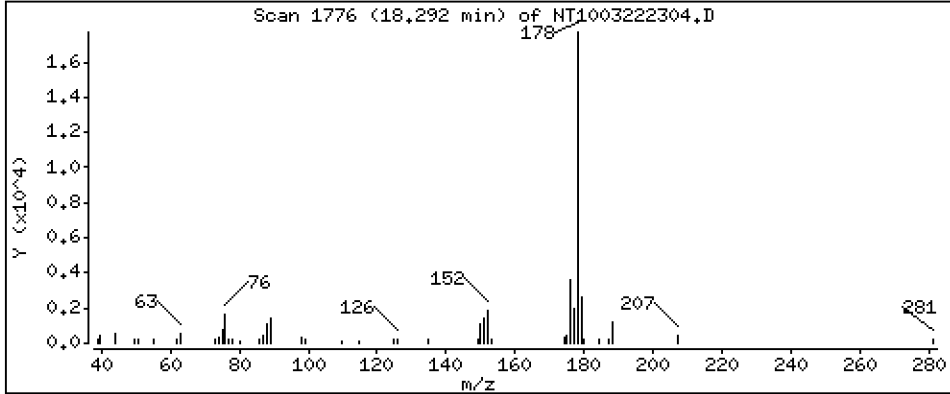
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 0.2068 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

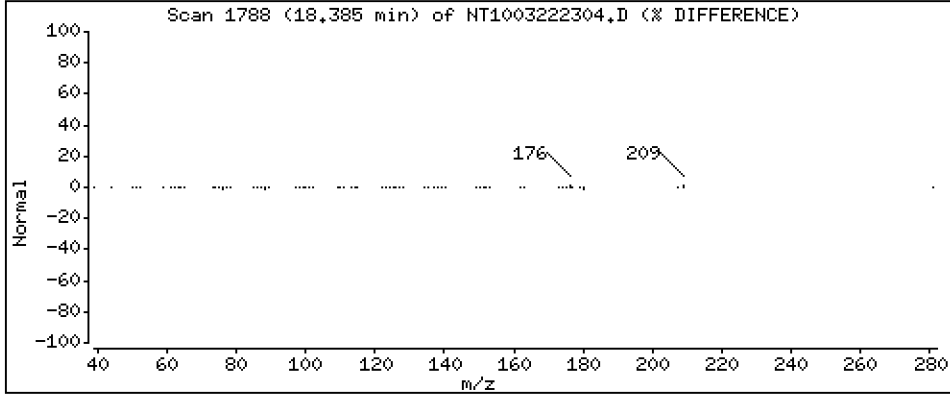
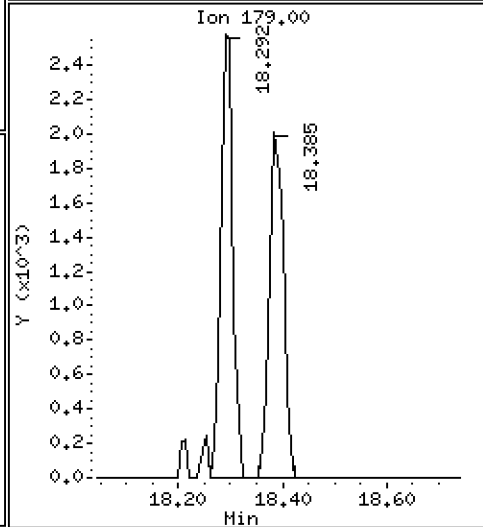
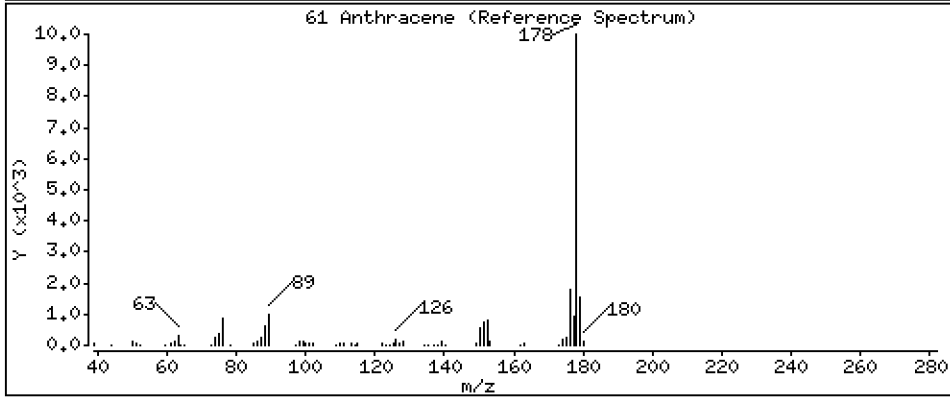
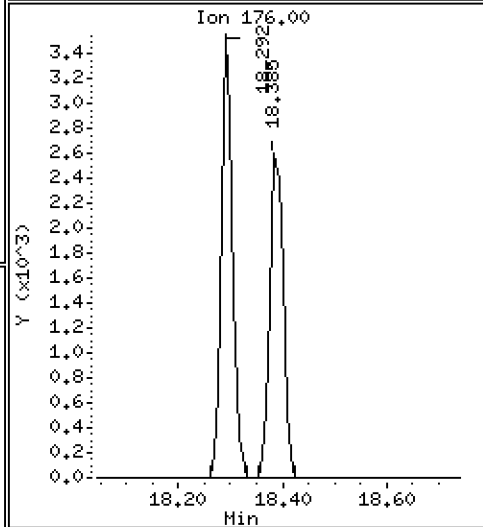
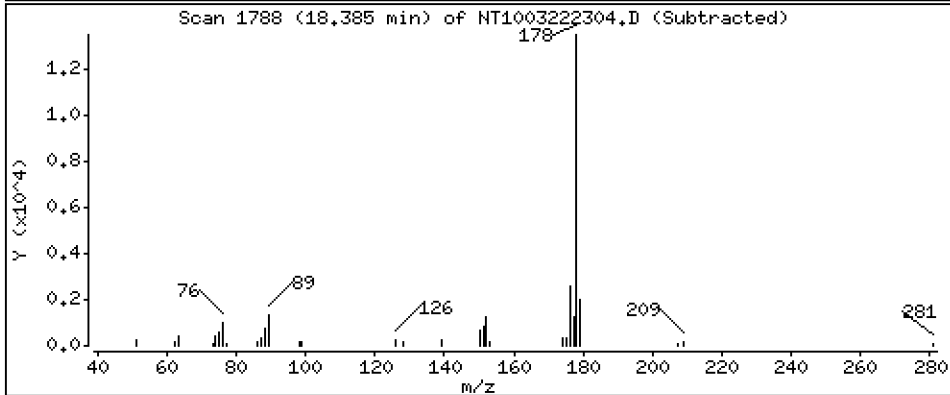
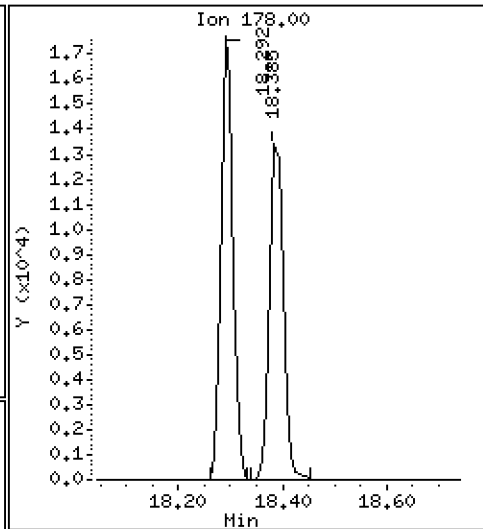
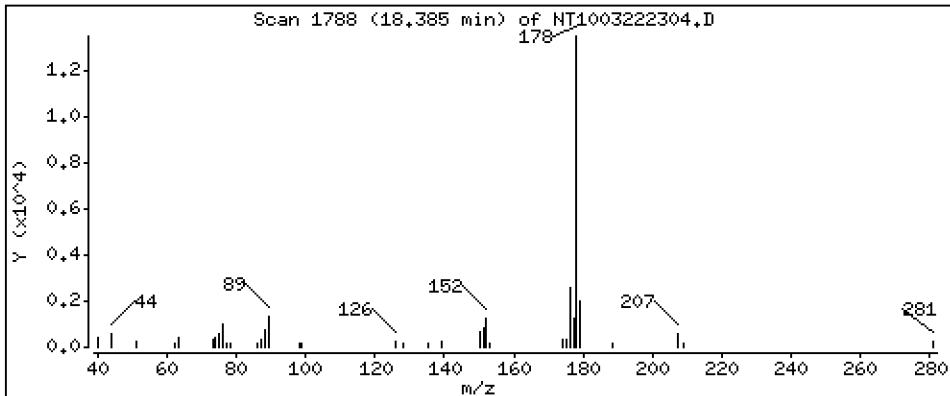
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,1820 ug/mL





Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

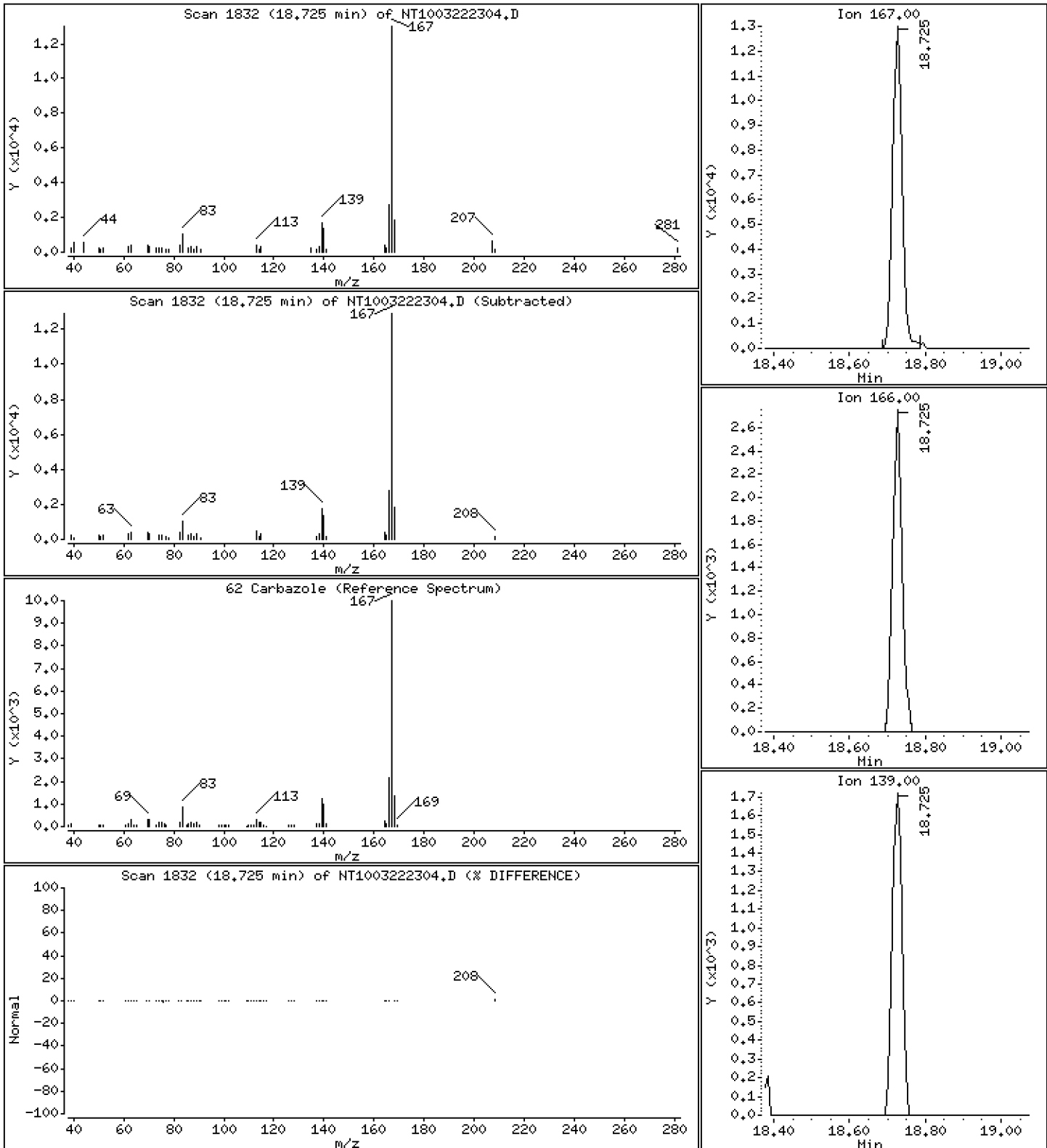
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1832 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

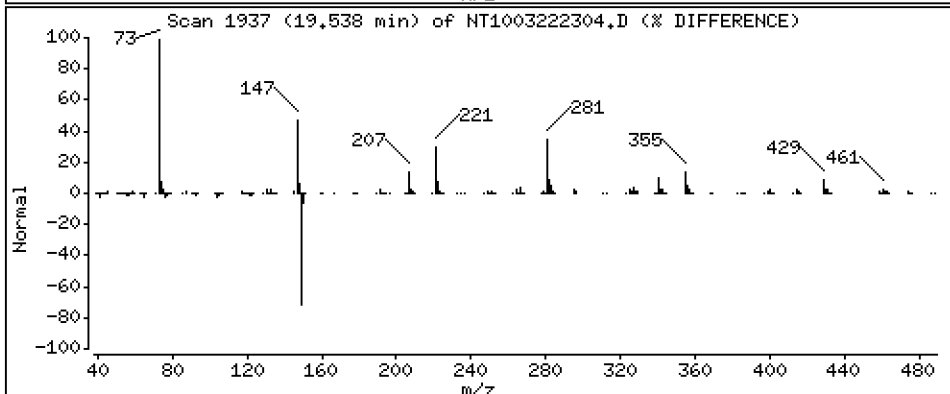
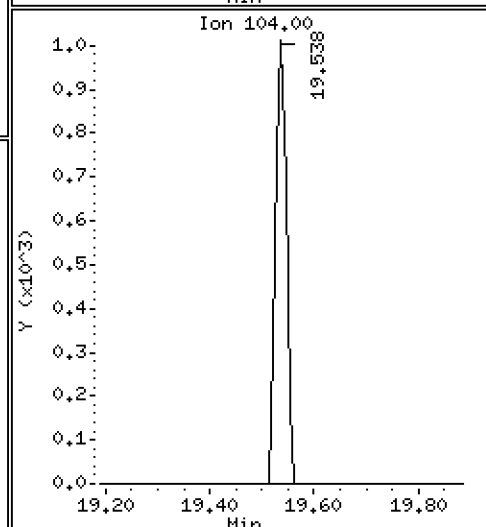
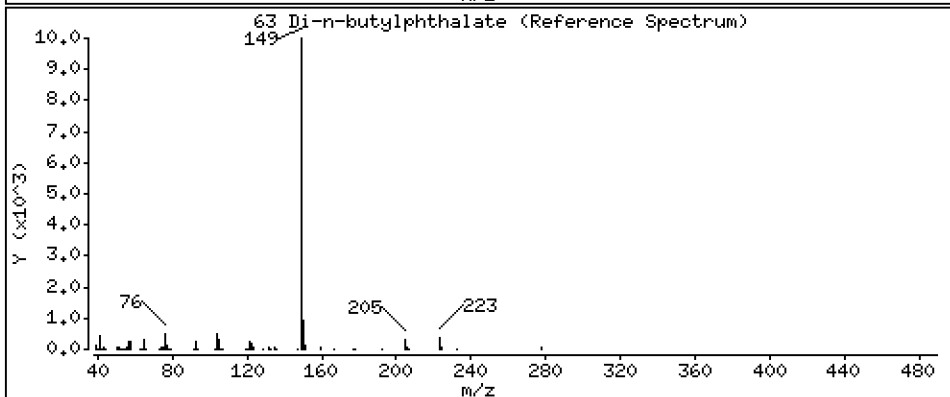
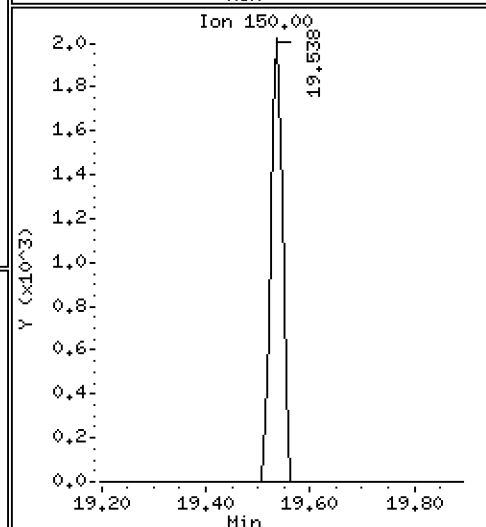
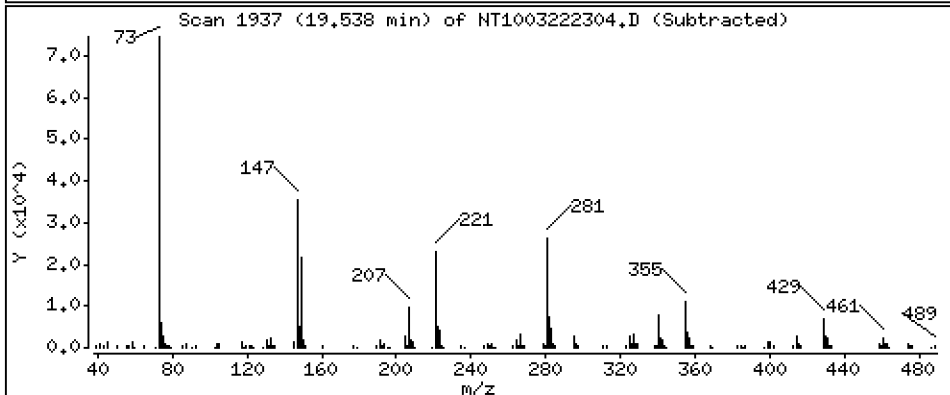
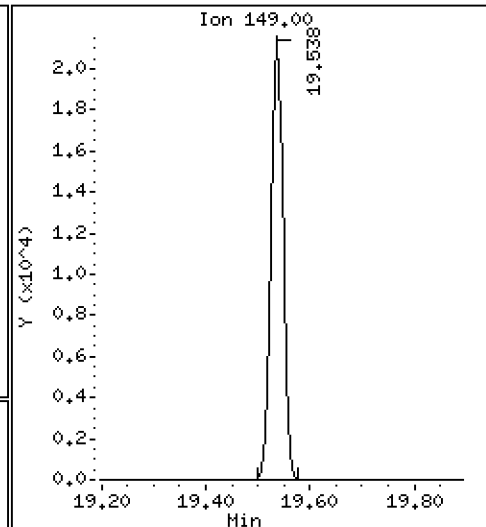
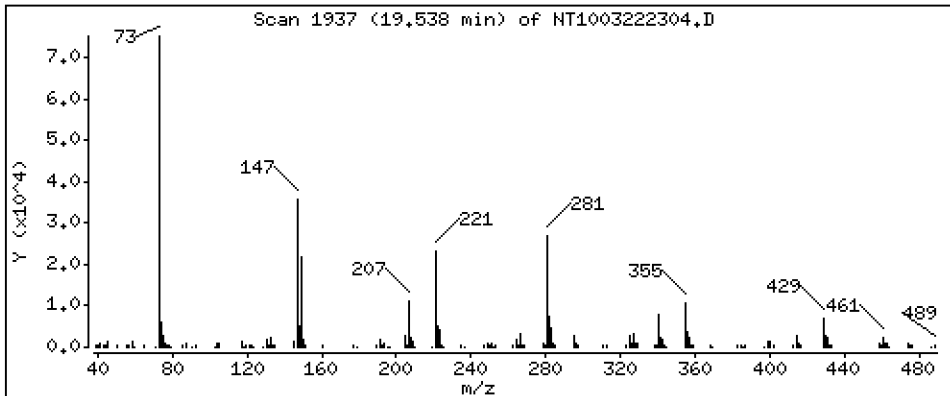
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,2065 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

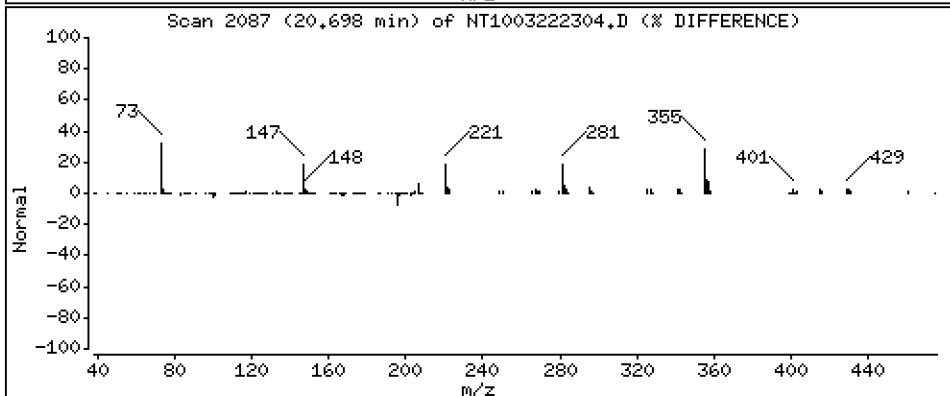
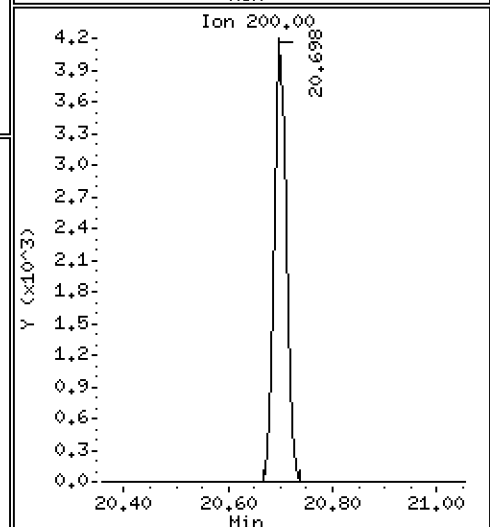
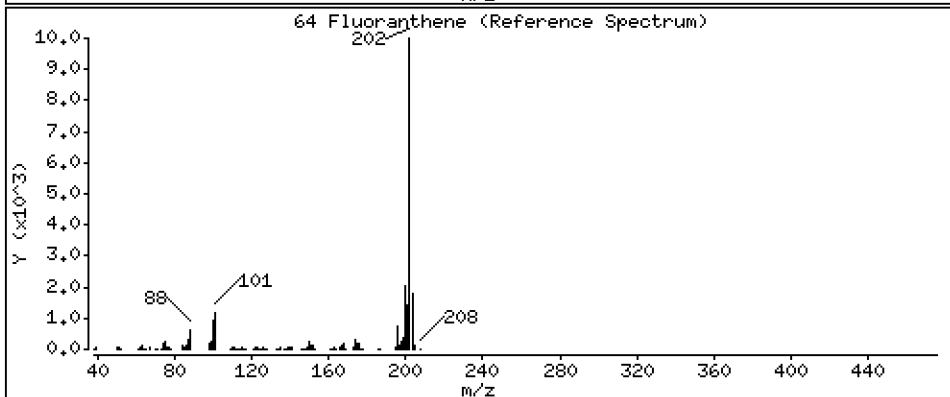
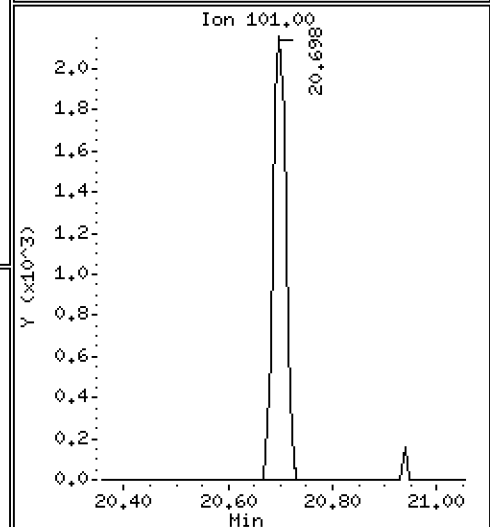
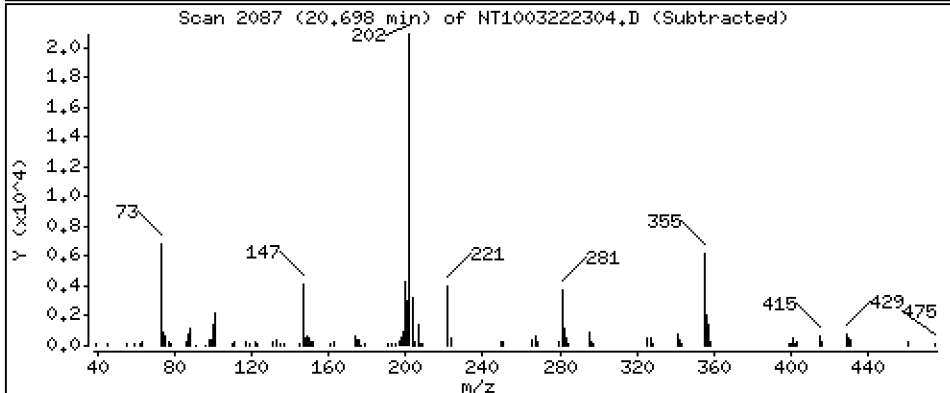
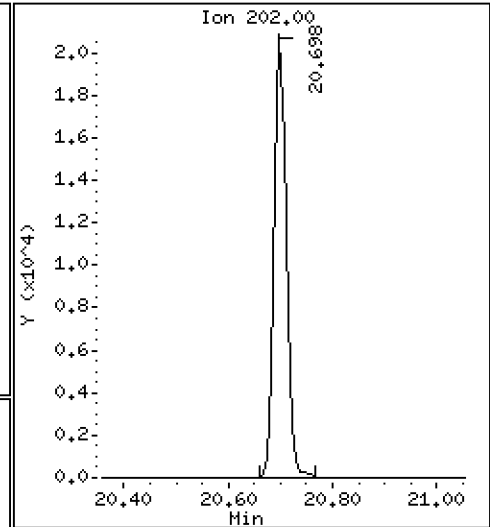
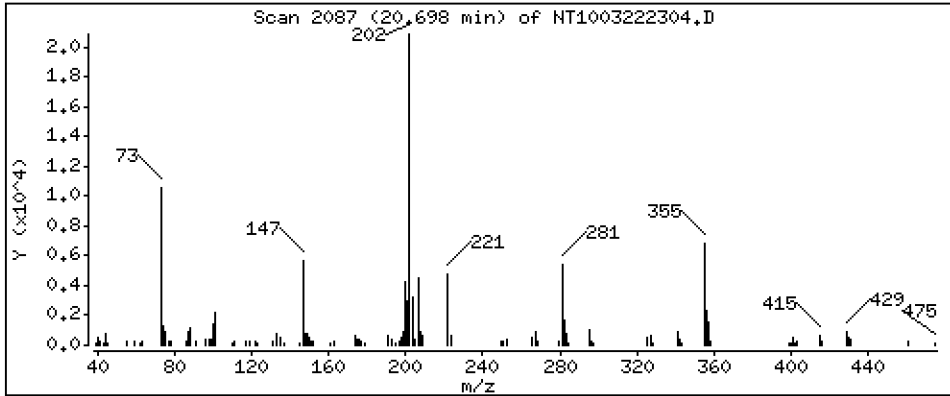
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,1833 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

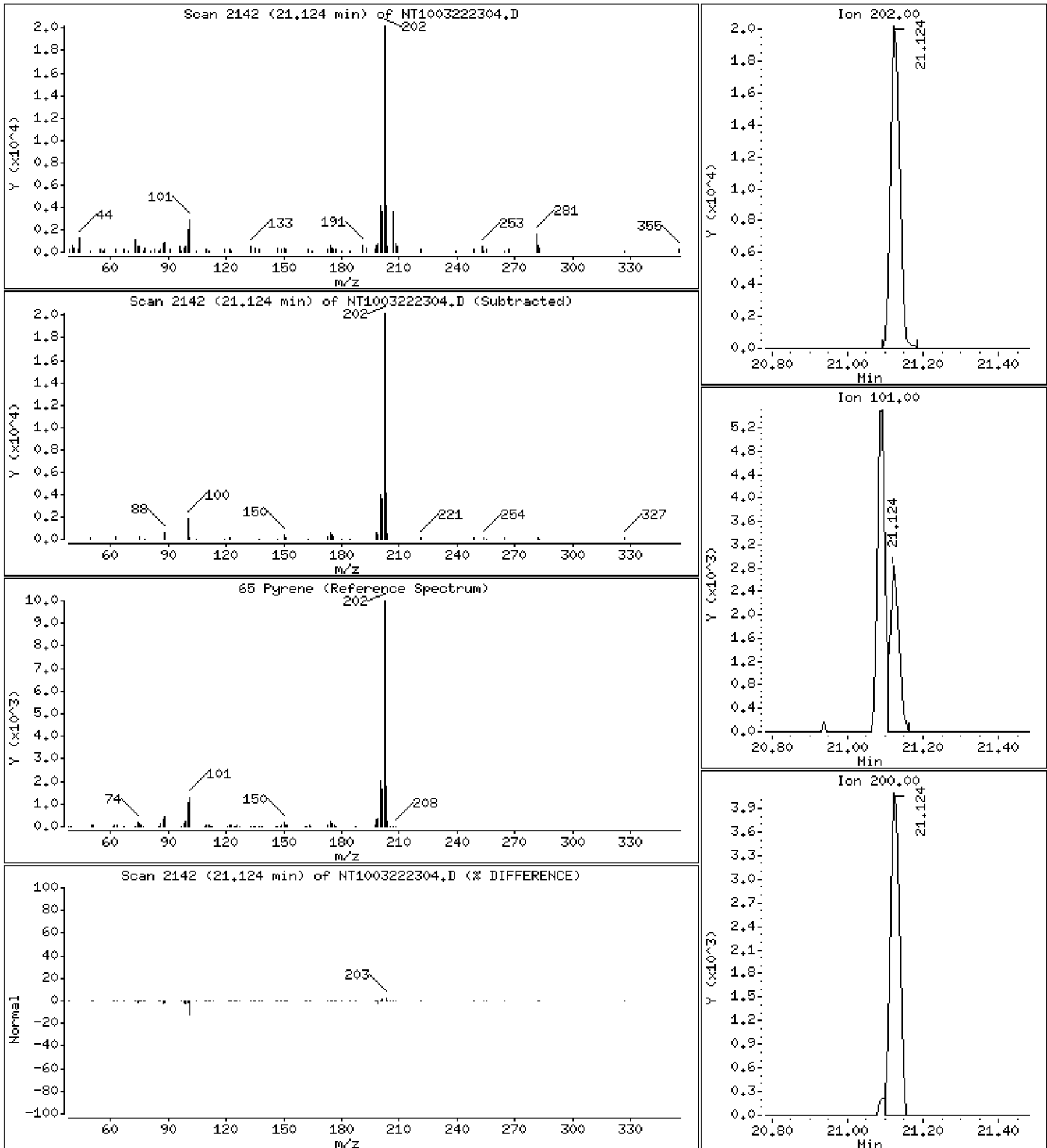
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,1830 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

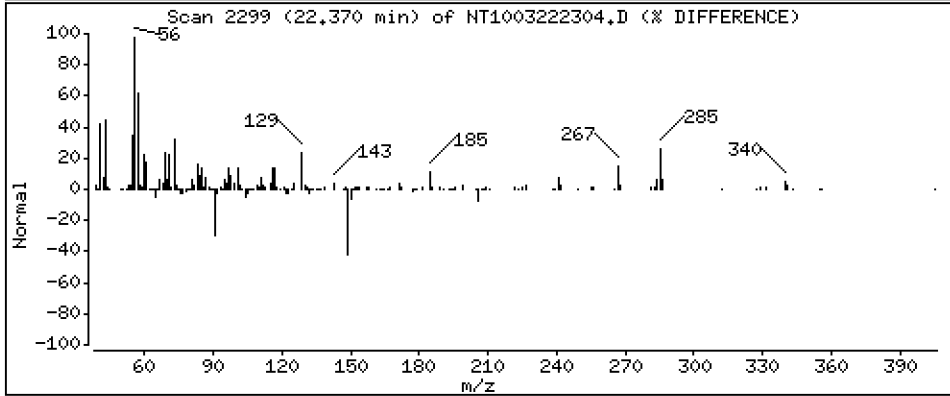
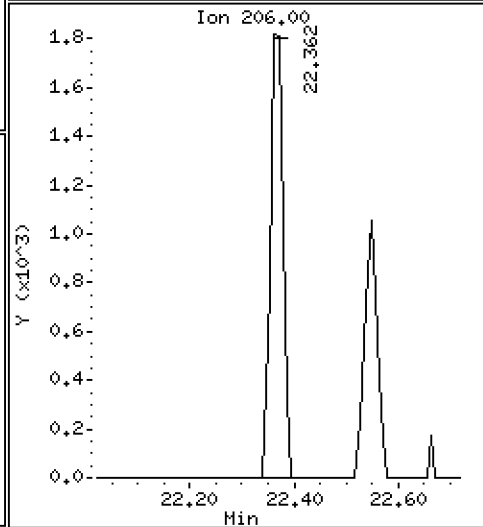
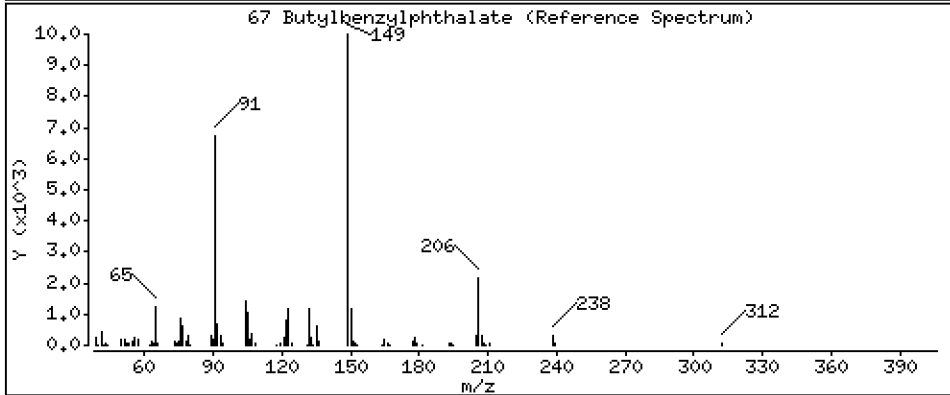
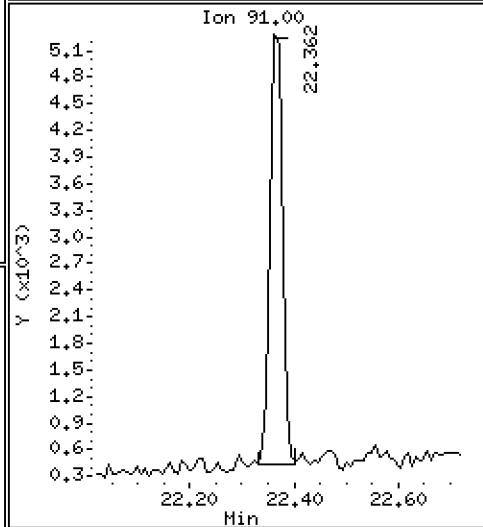
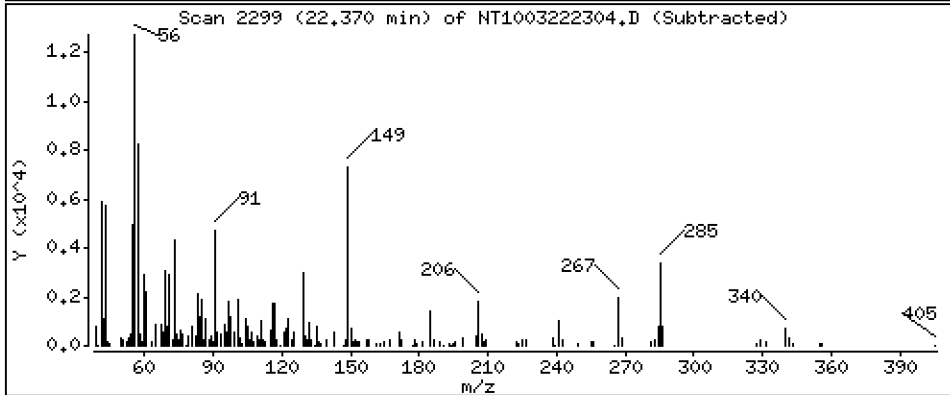
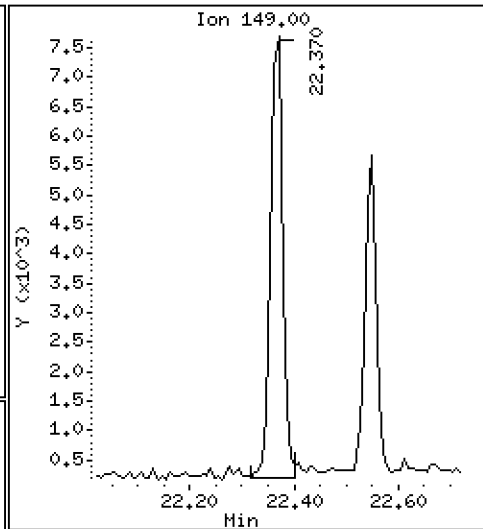
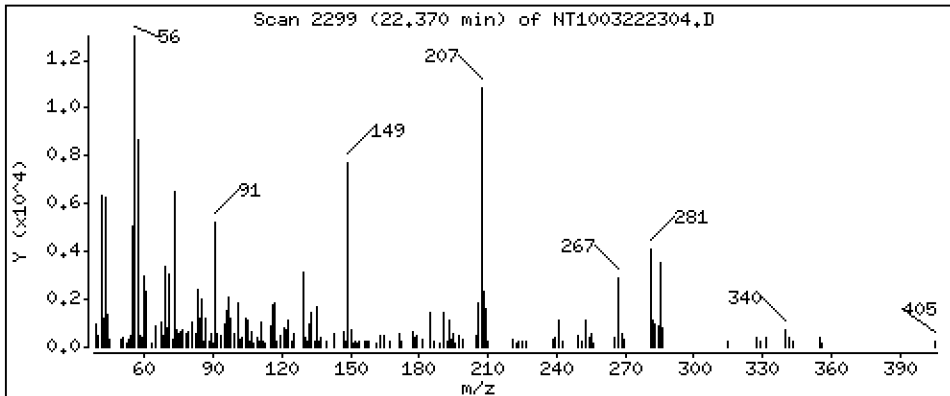
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,1836 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

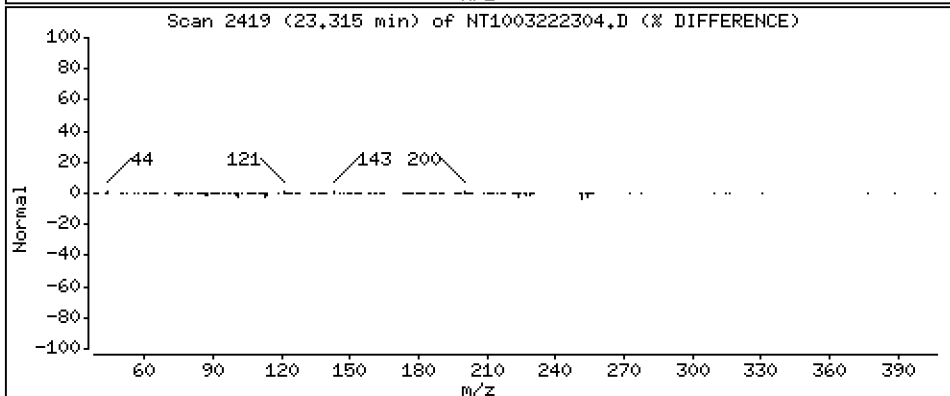
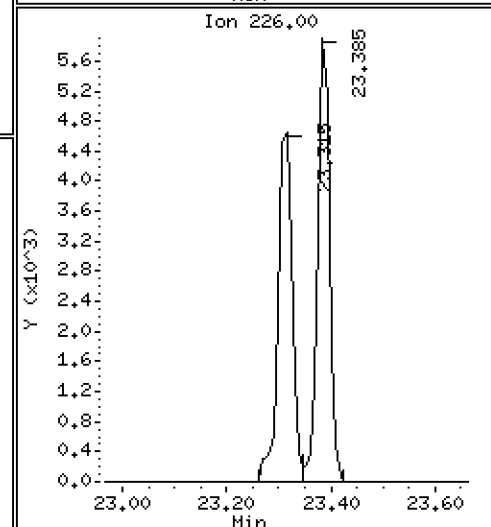
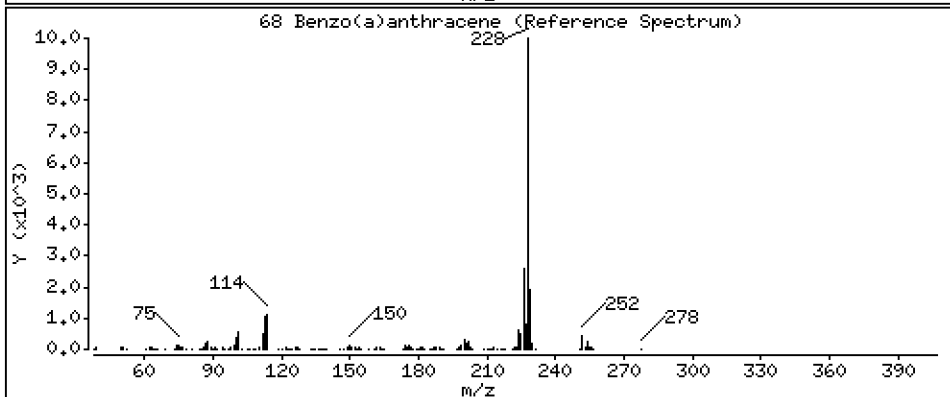
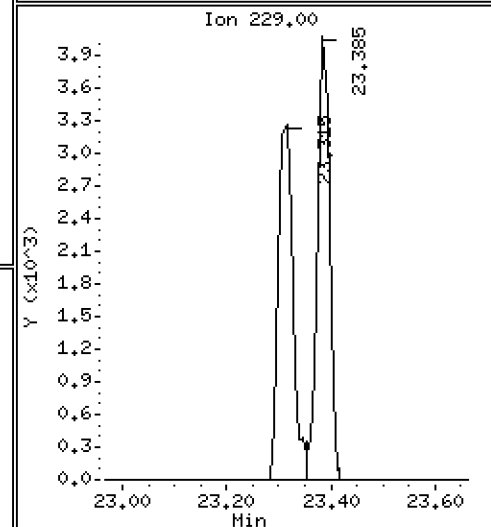
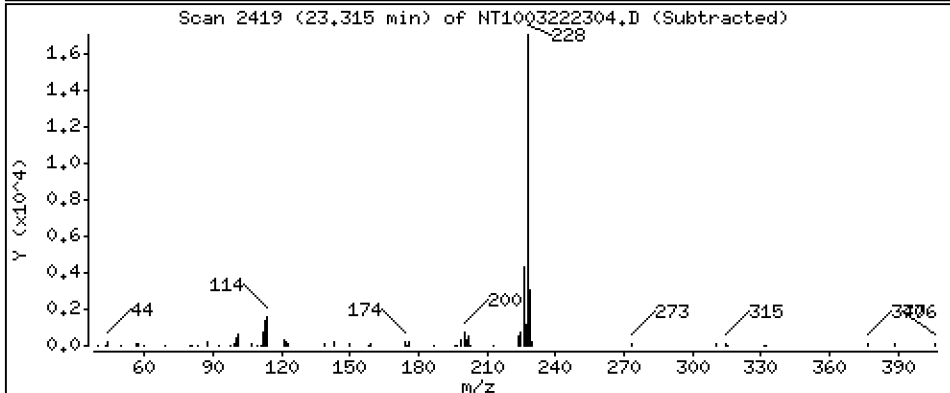
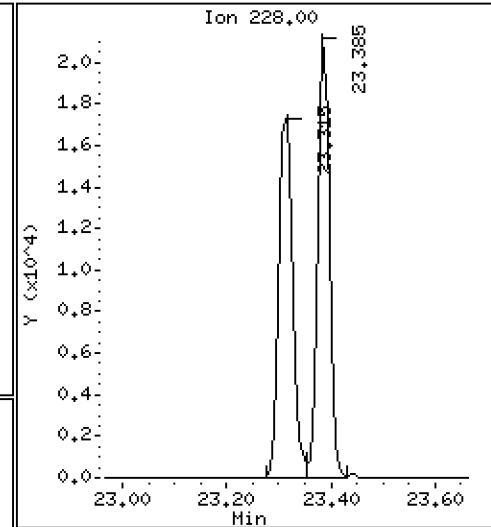
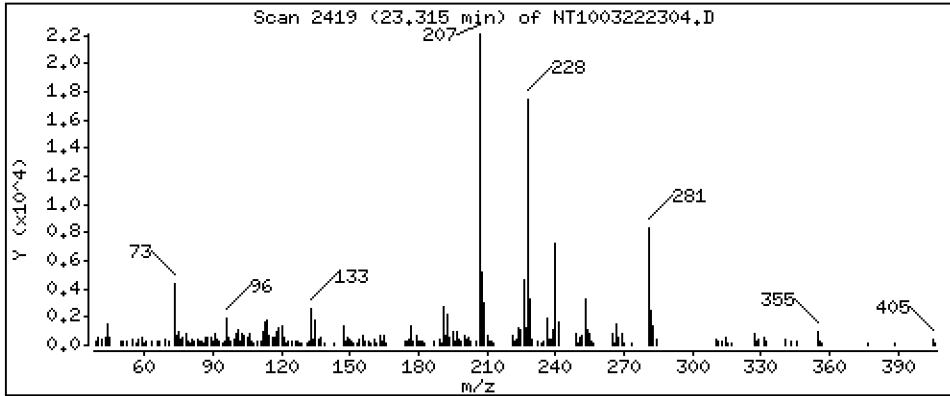
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2005 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

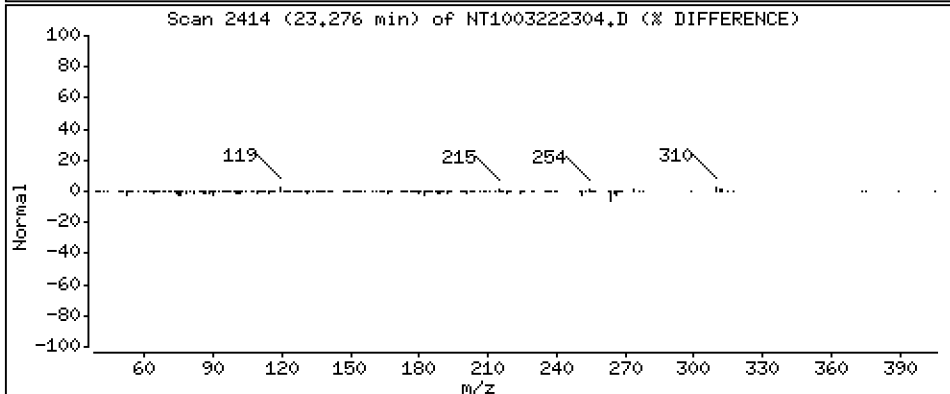
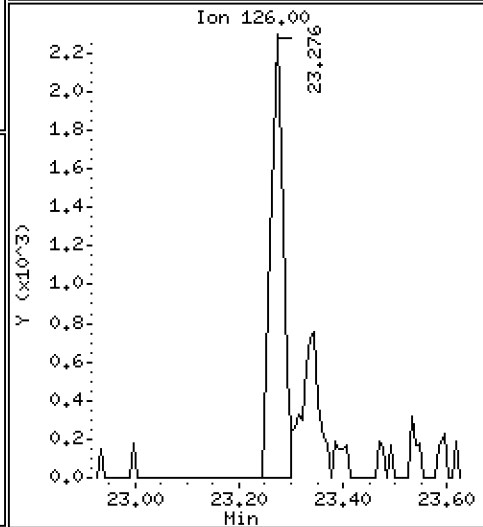
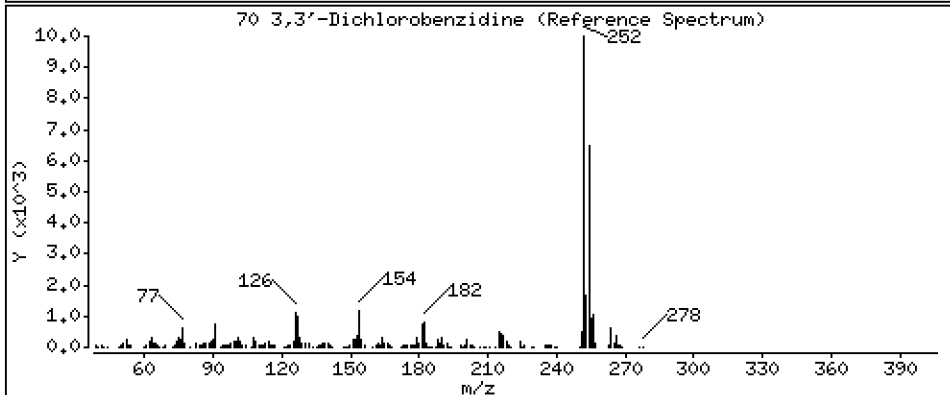
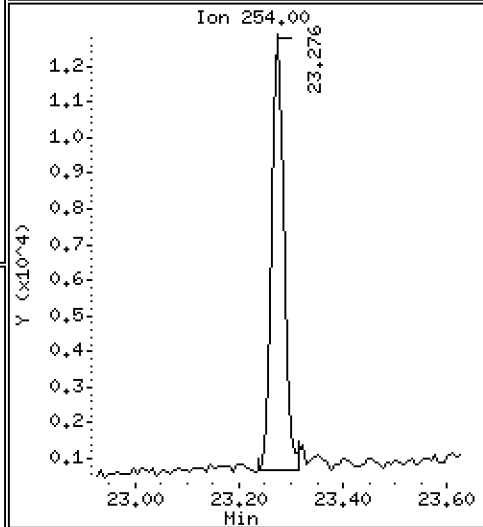
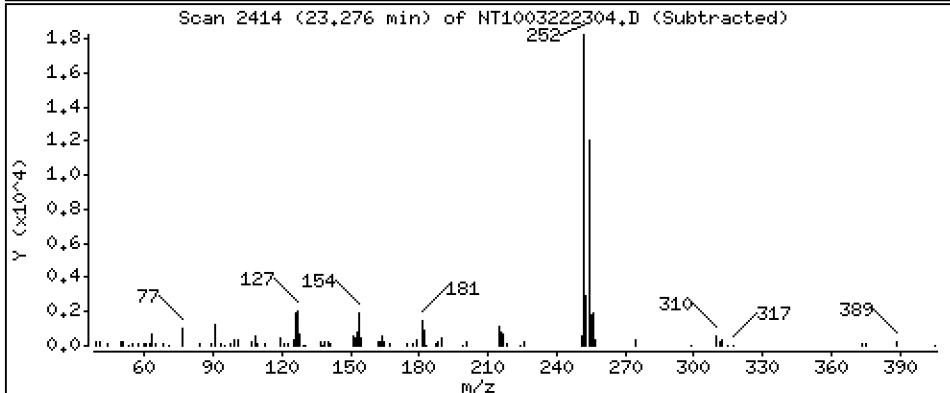
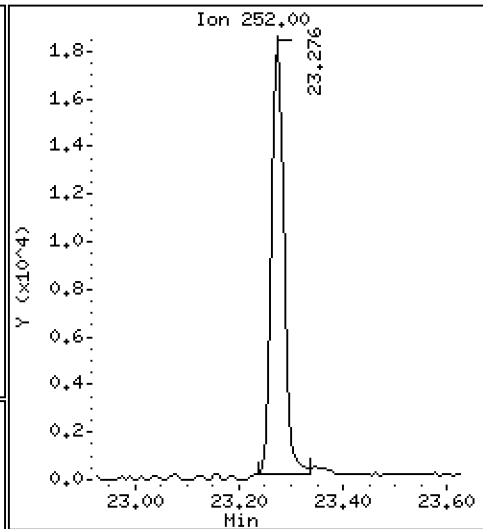
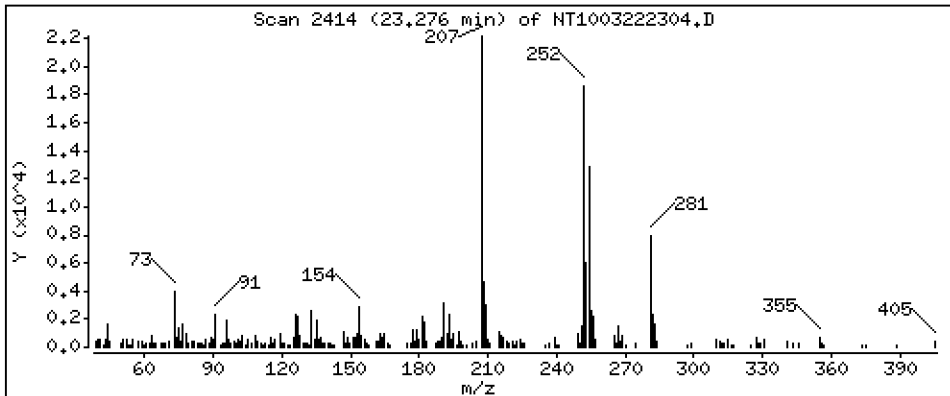
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,5900 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

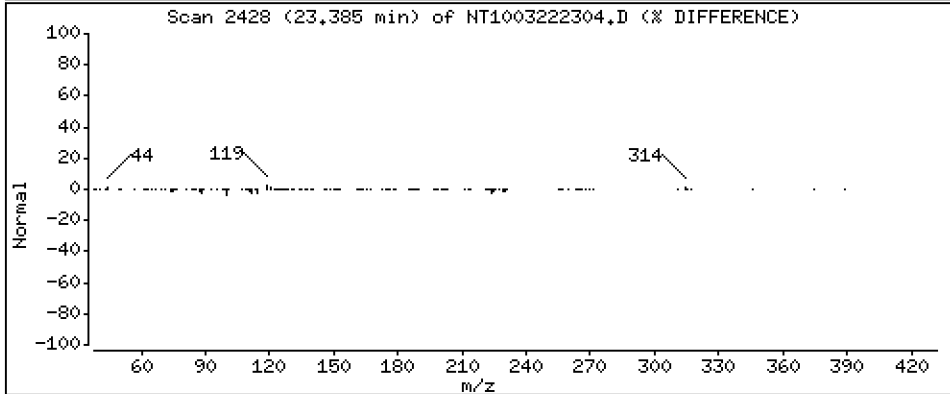
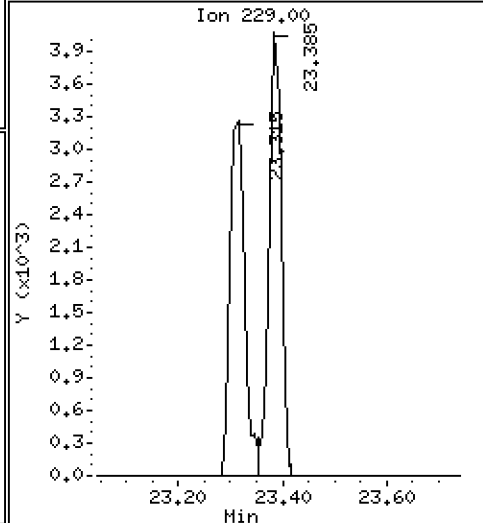
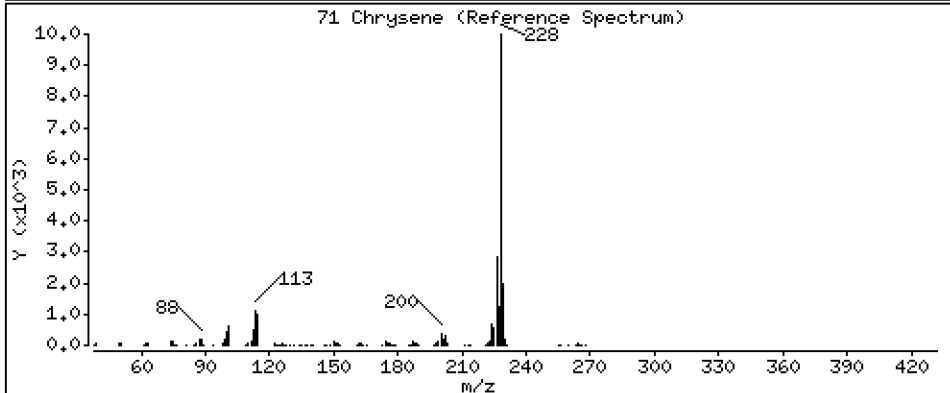
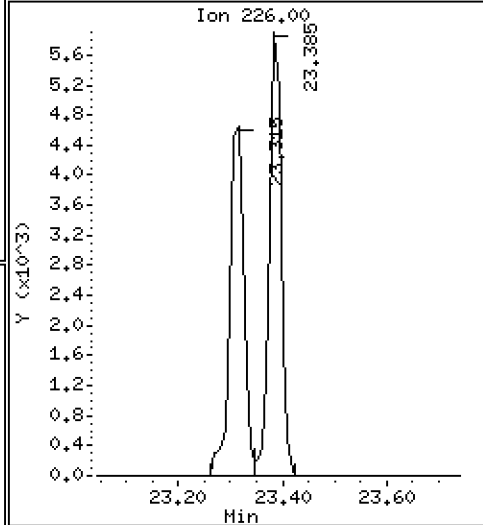
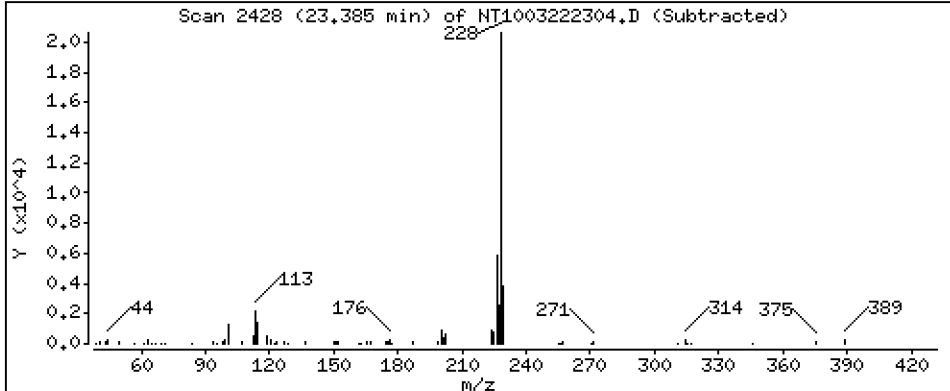
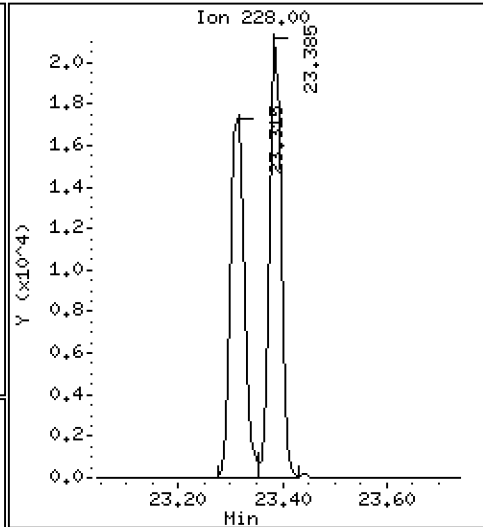
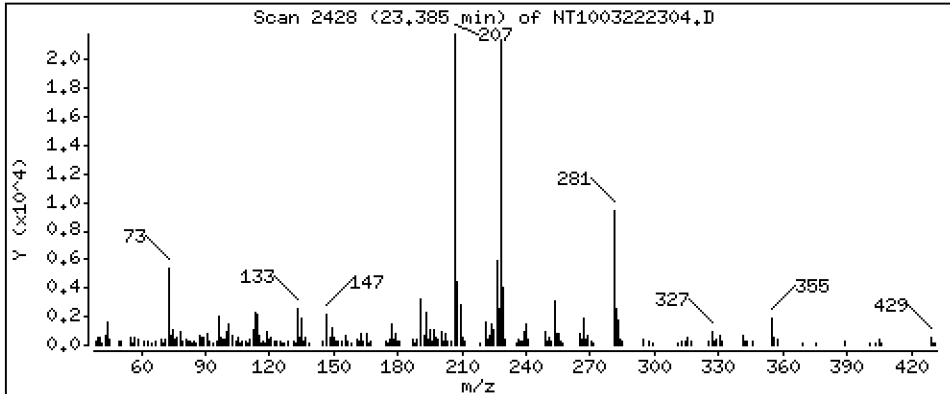
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2053 ug/mL





Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

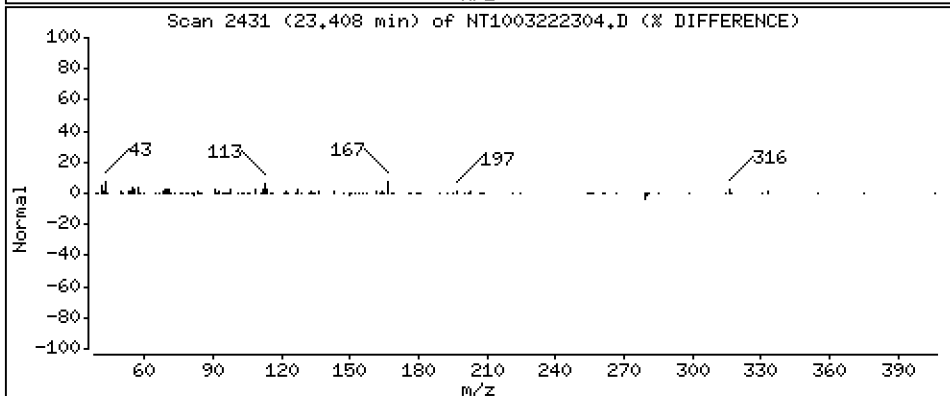
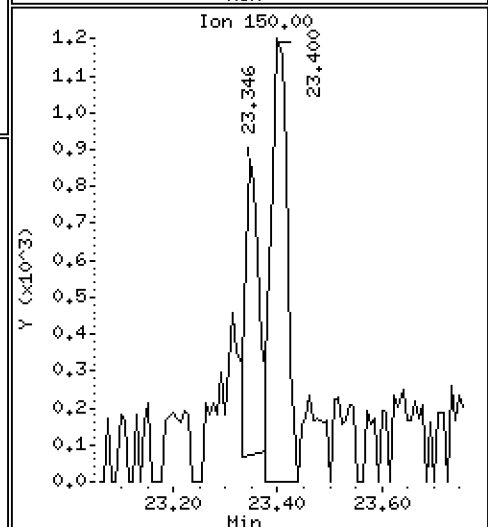
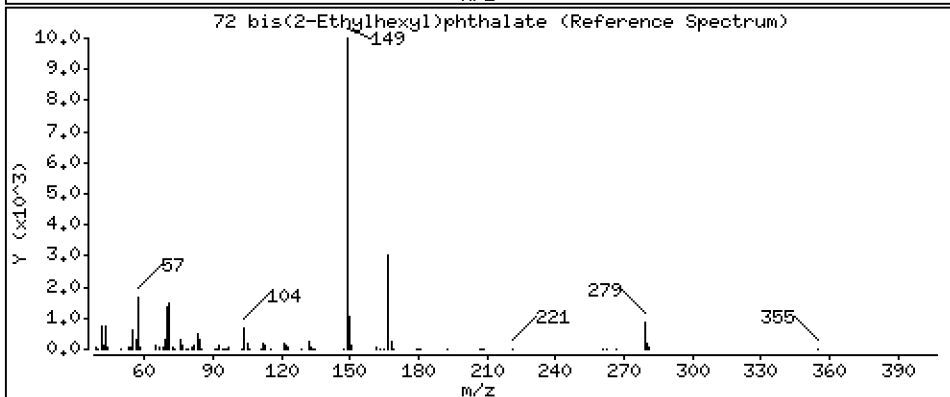
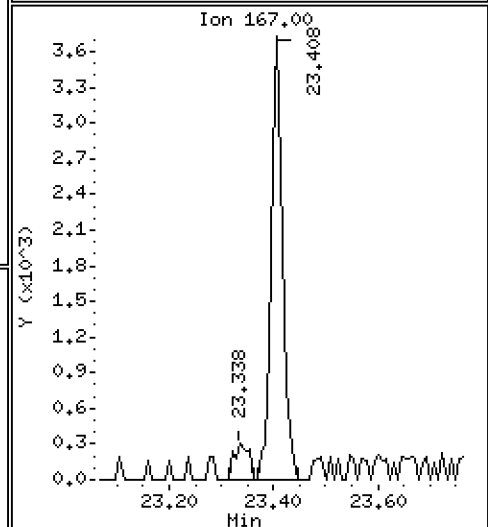
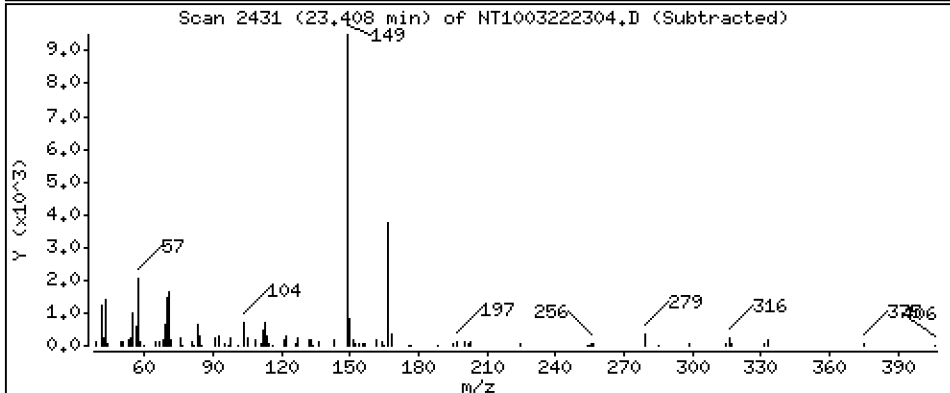
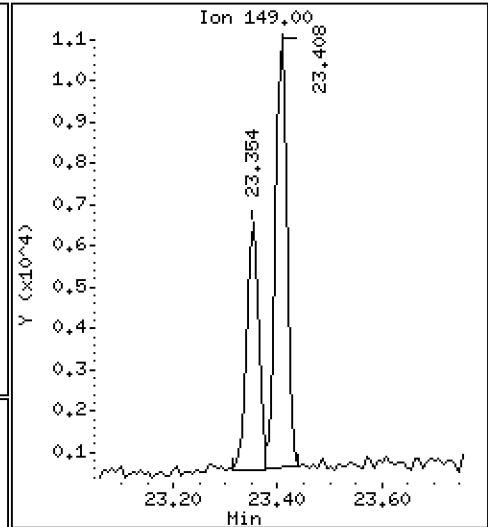
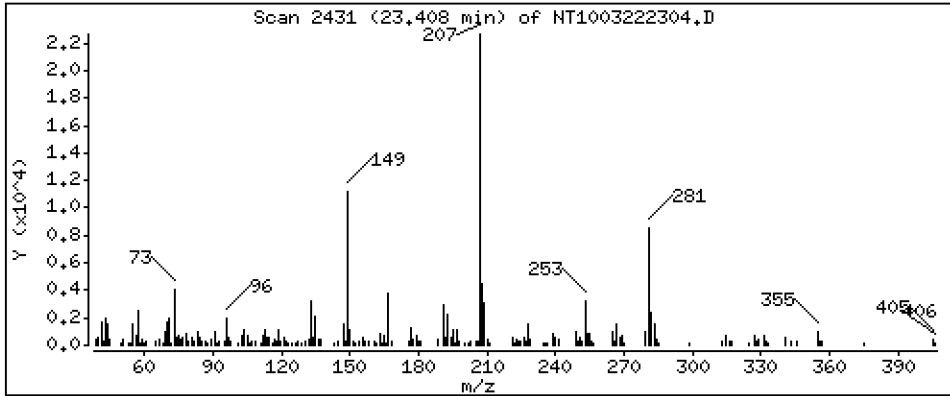
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,1653 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

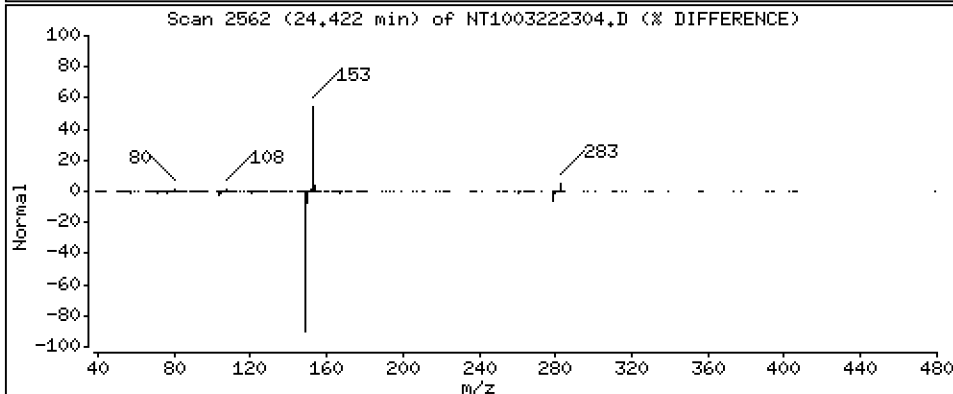
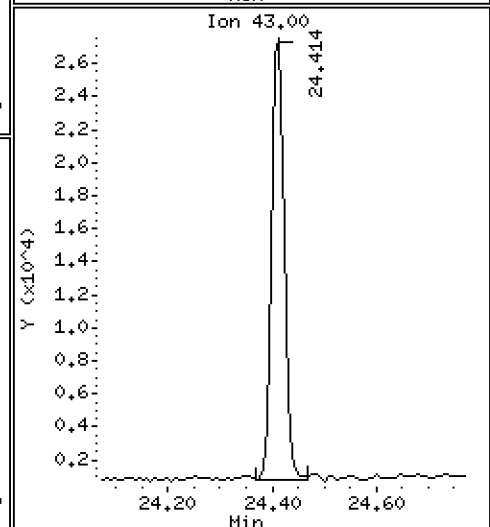
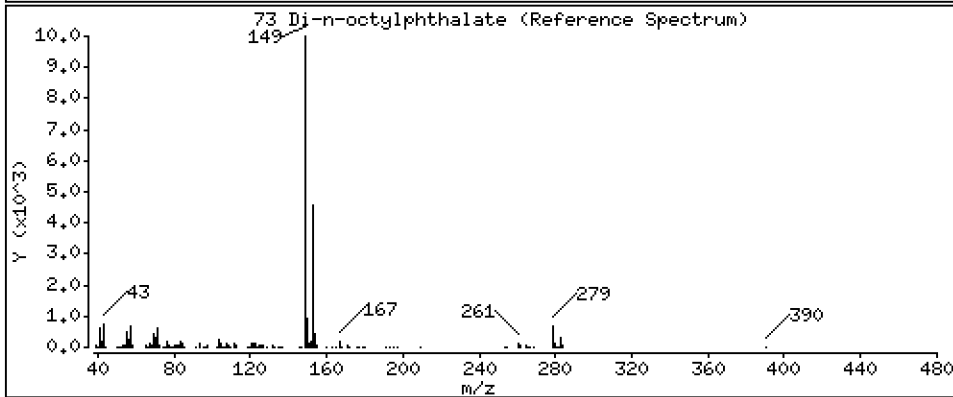
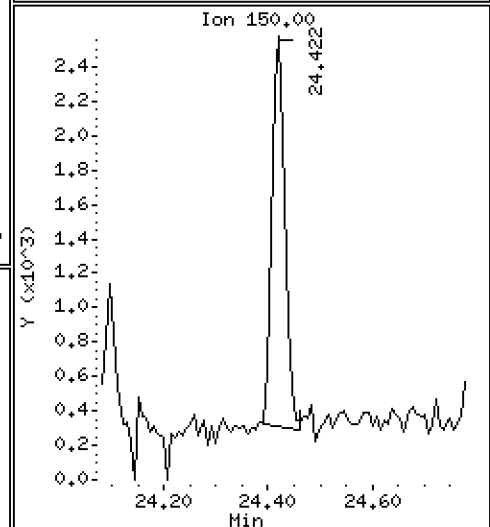
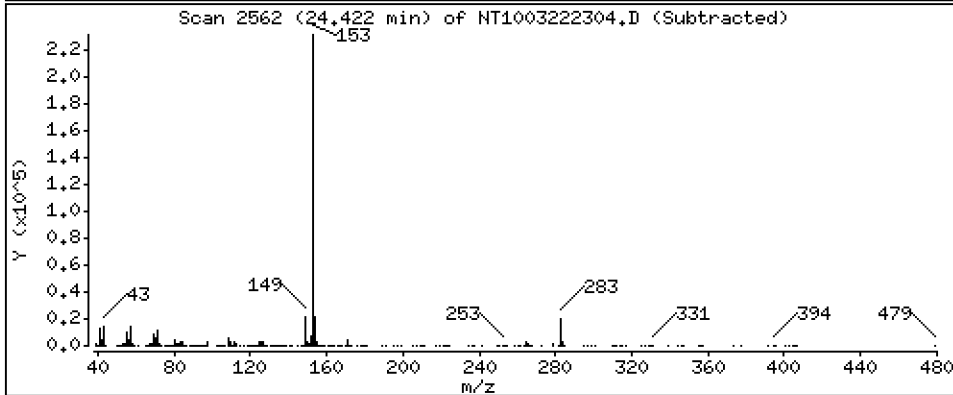
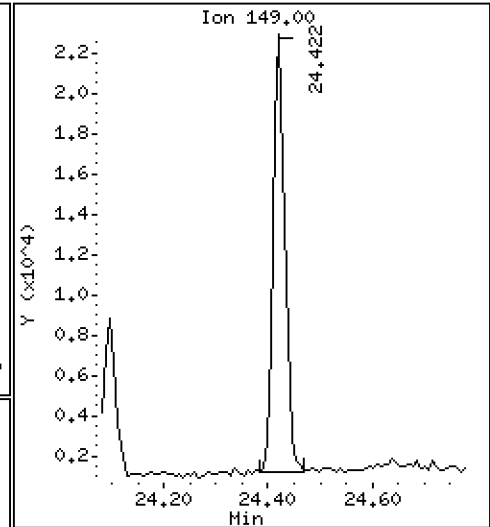
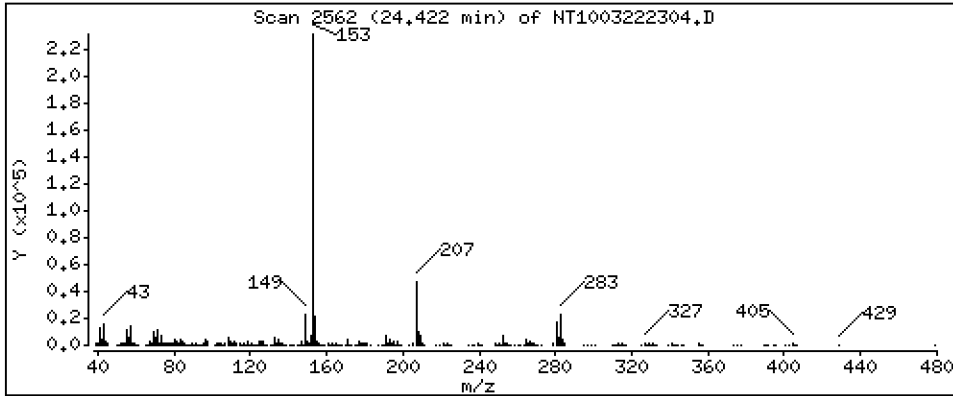
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2061 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

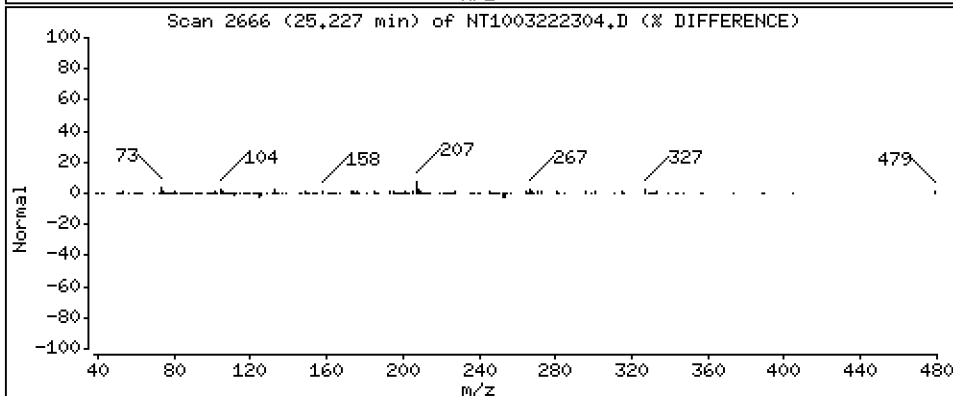
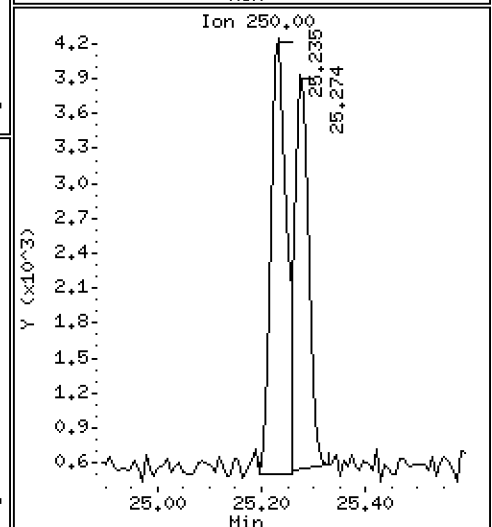
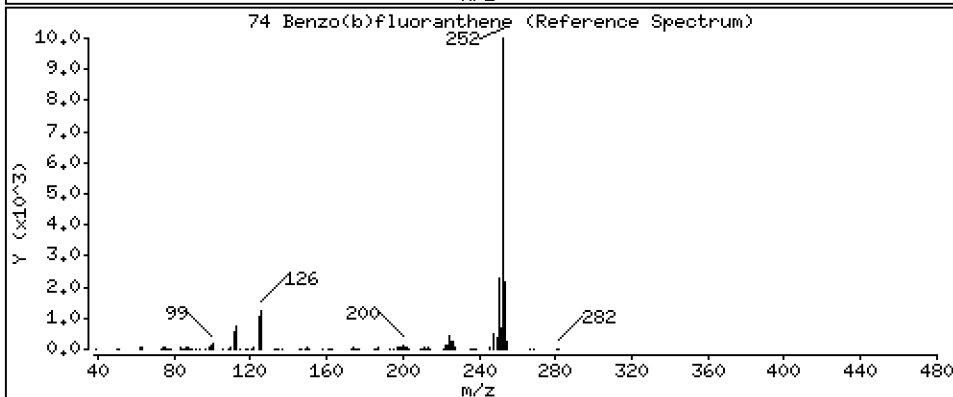
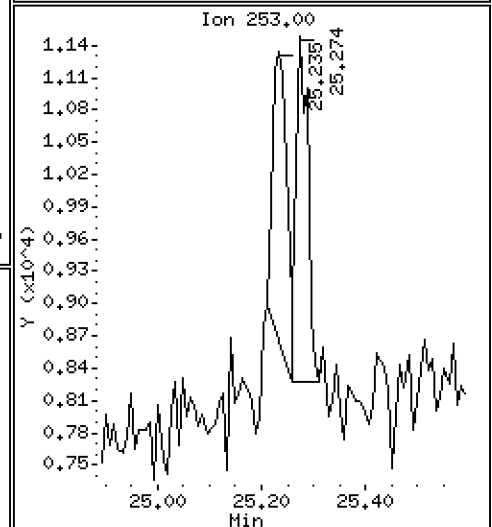
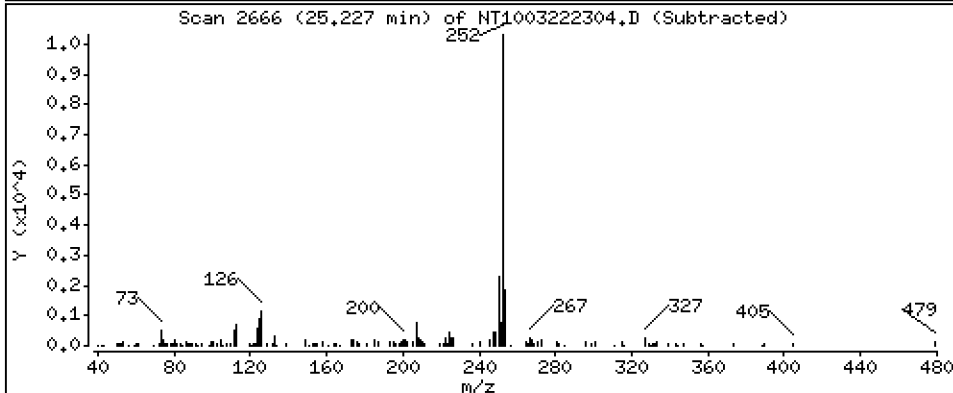
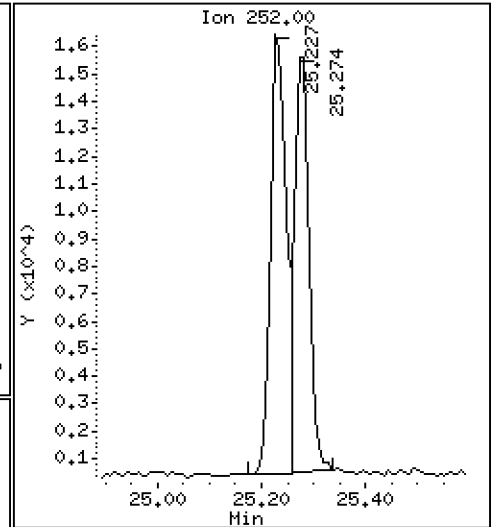
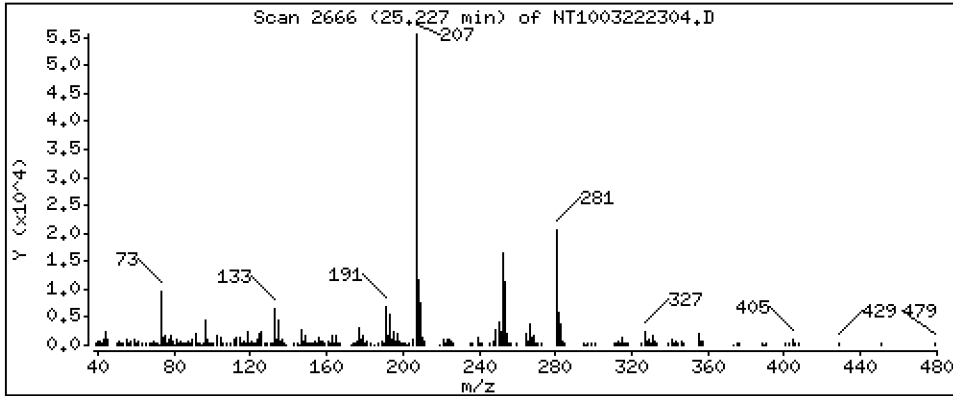
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,2162 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

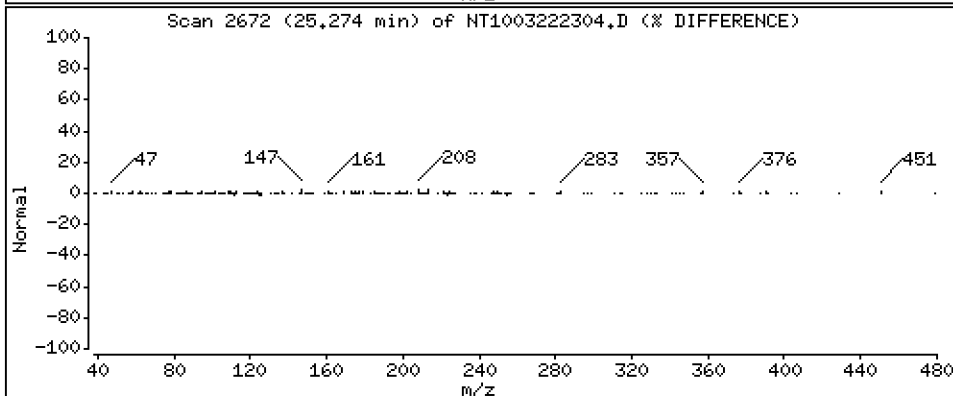
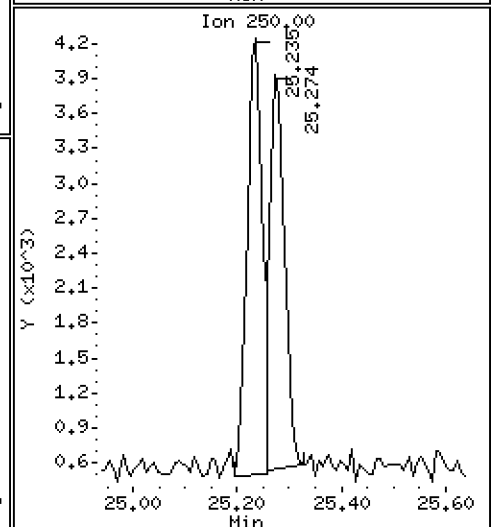
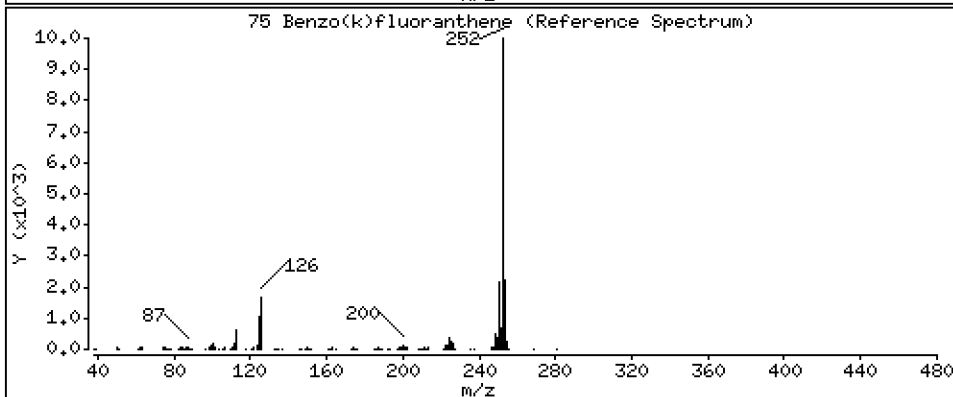
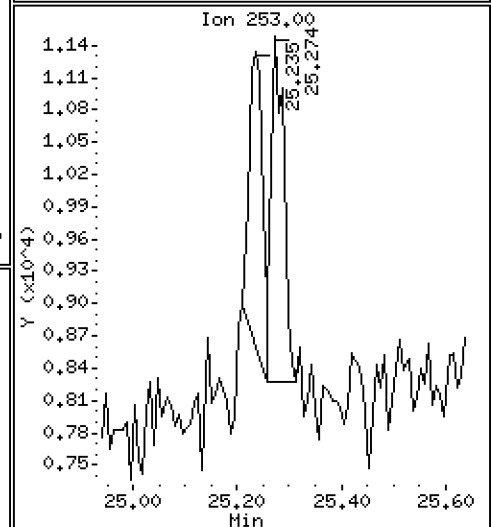
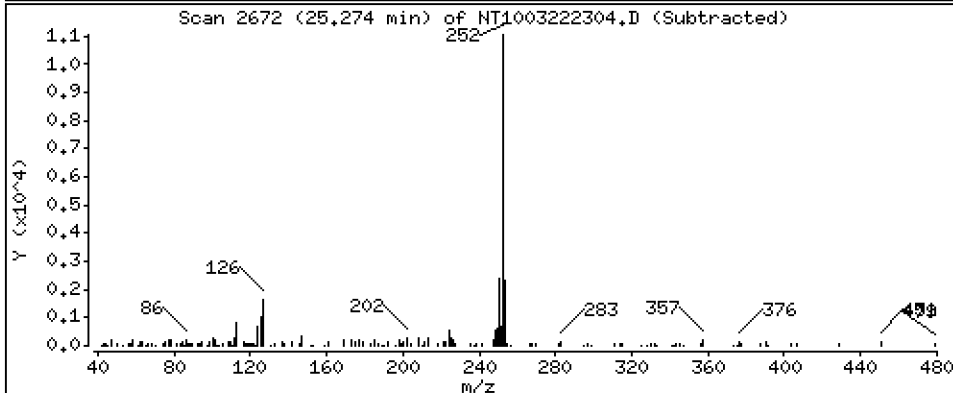
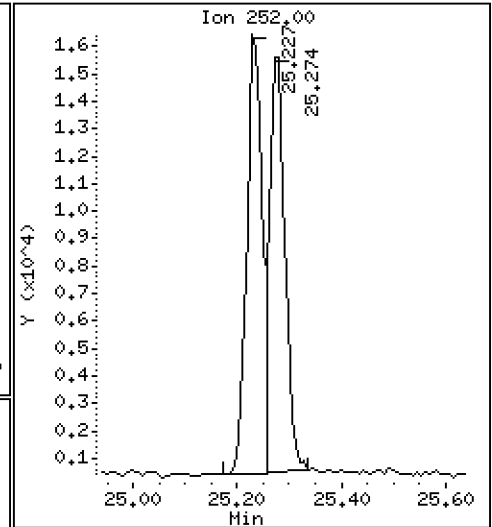
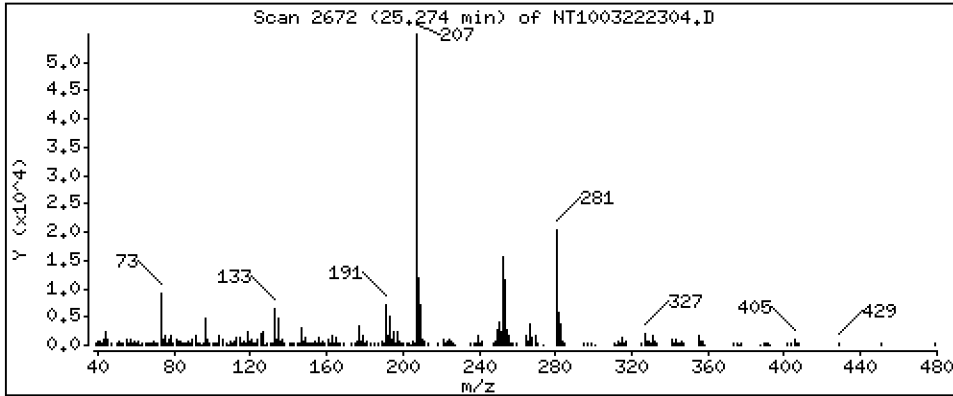
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,1936 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

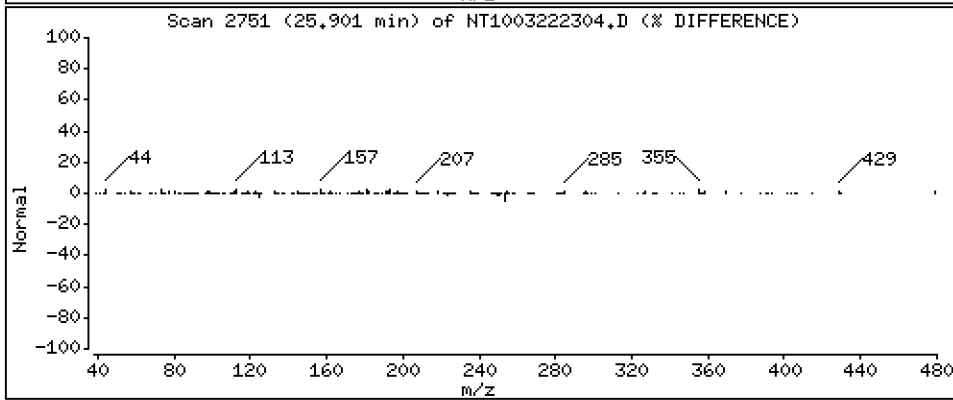
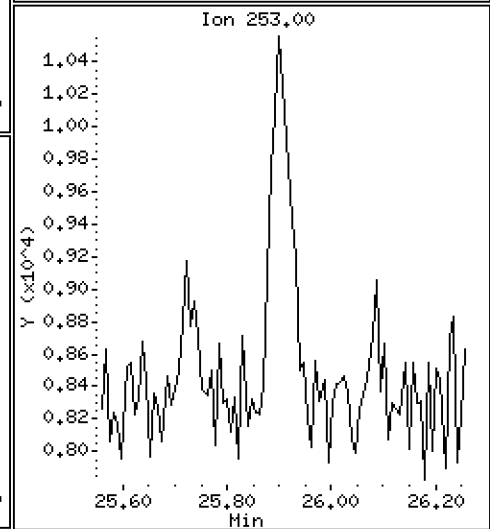
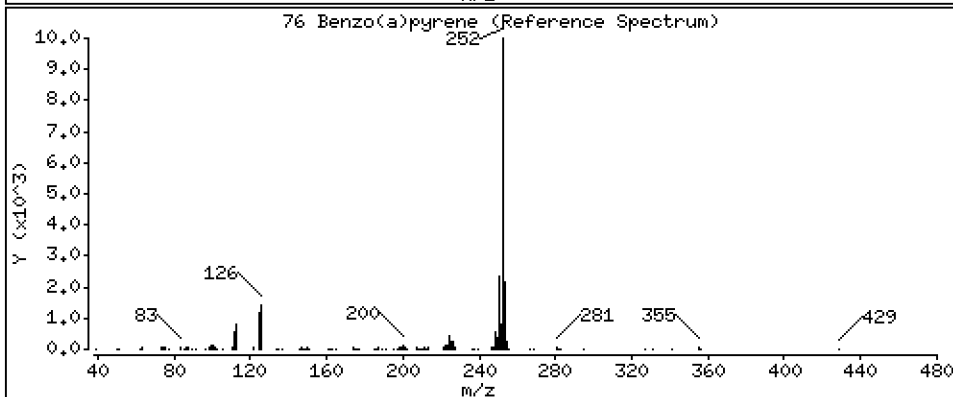
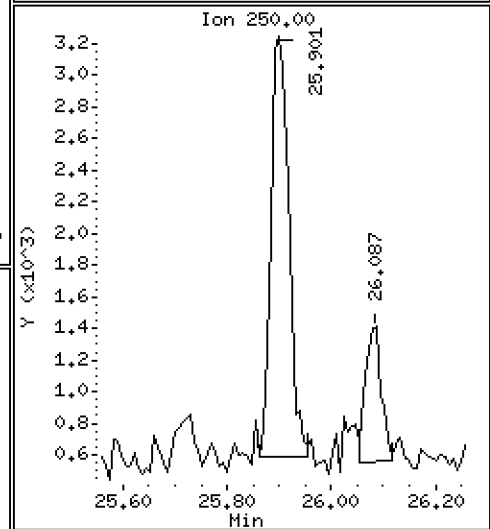
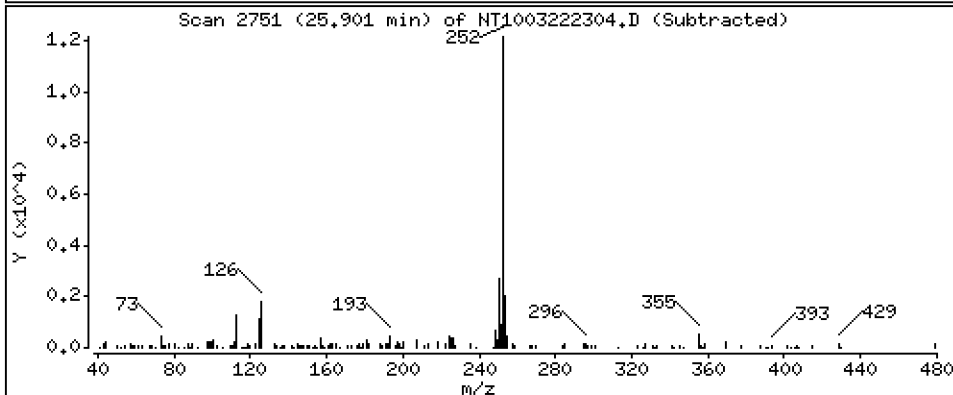
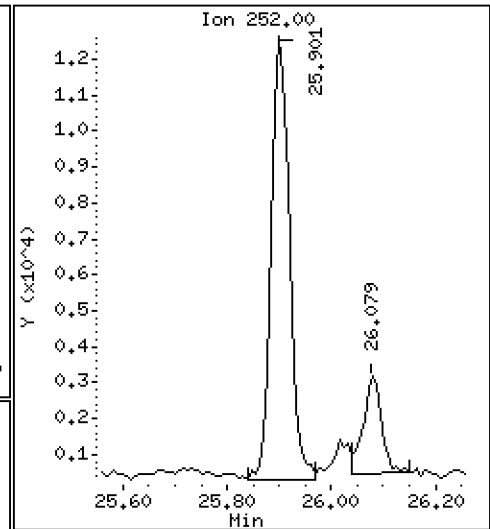
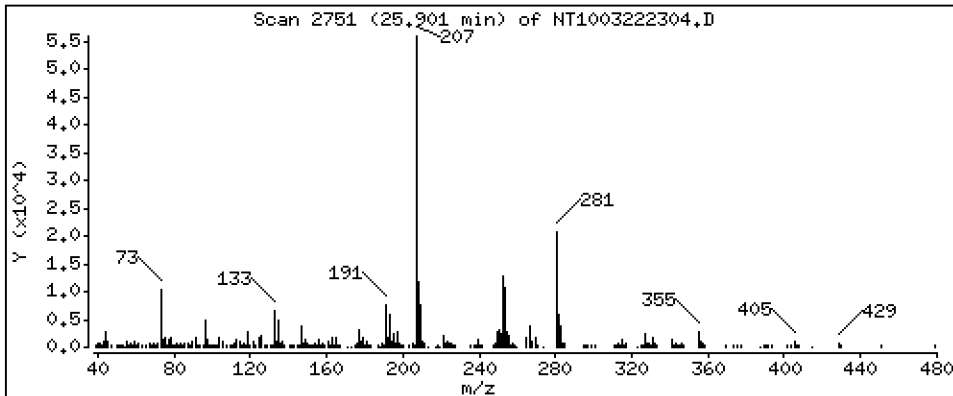
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2049 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

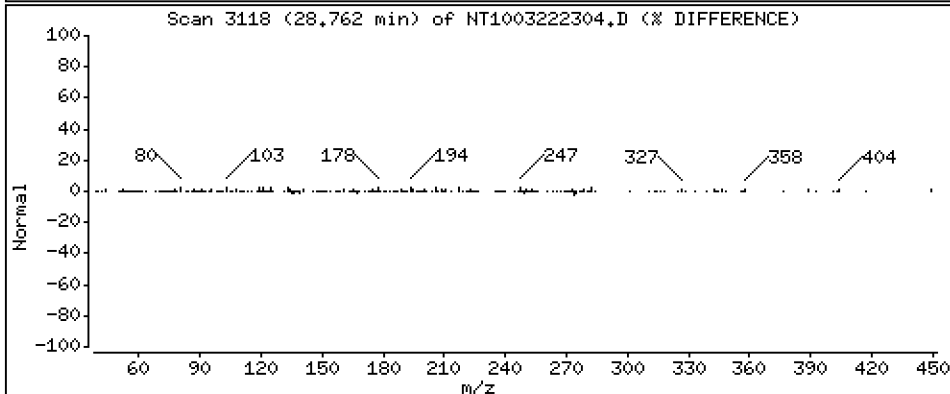
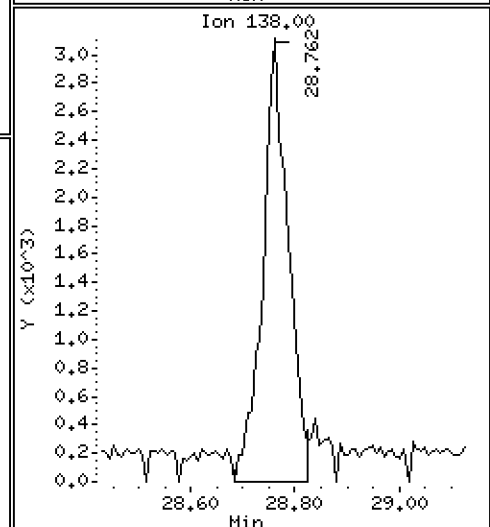
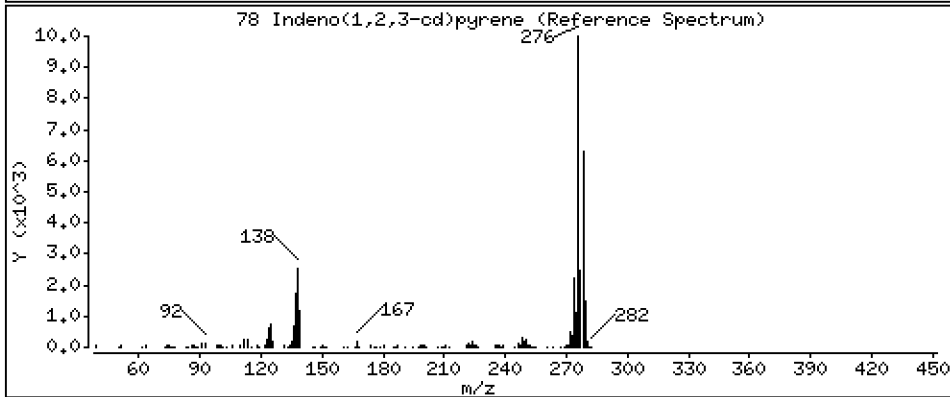
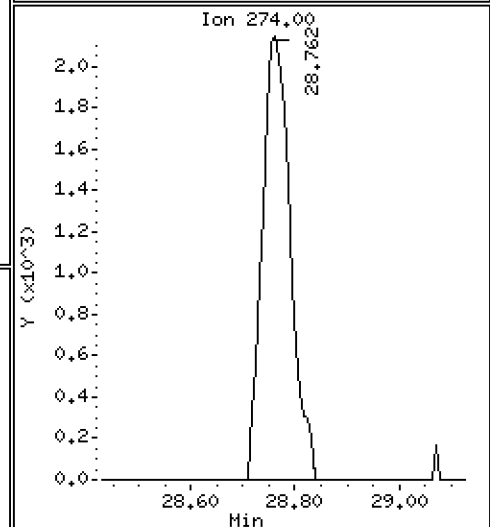
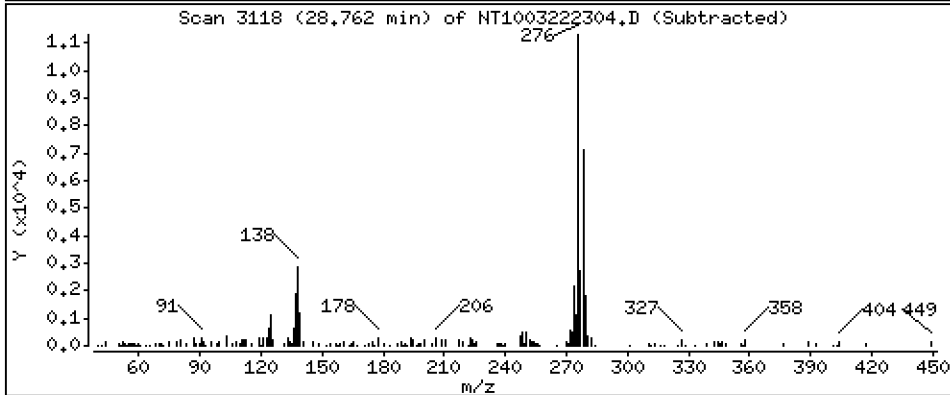
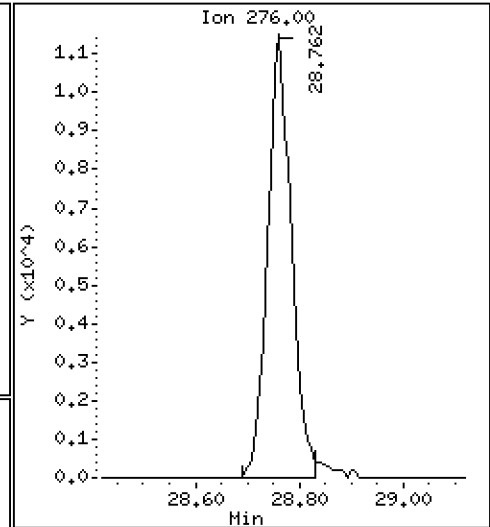
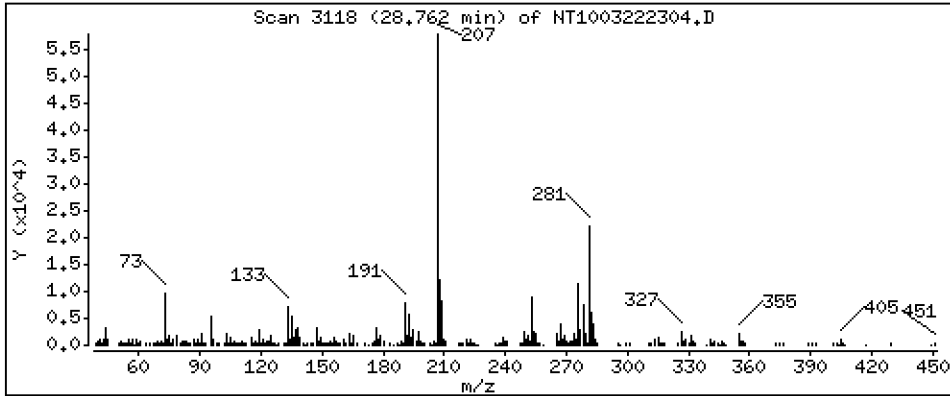
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,1973 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

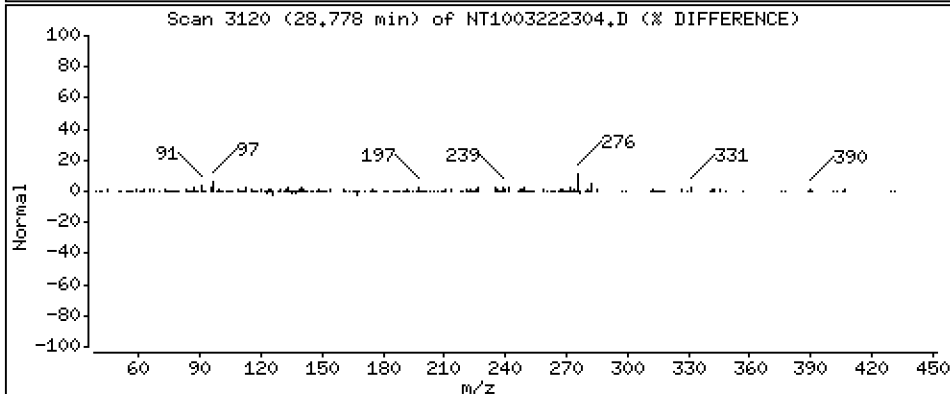
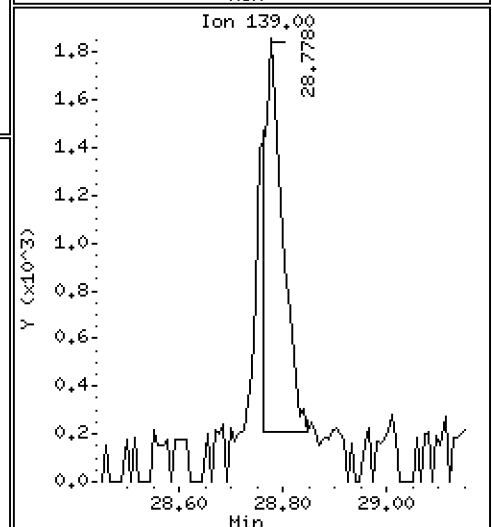
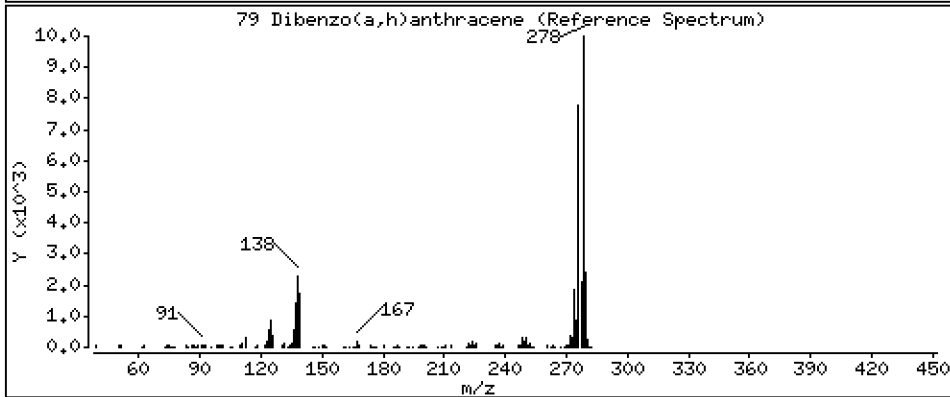
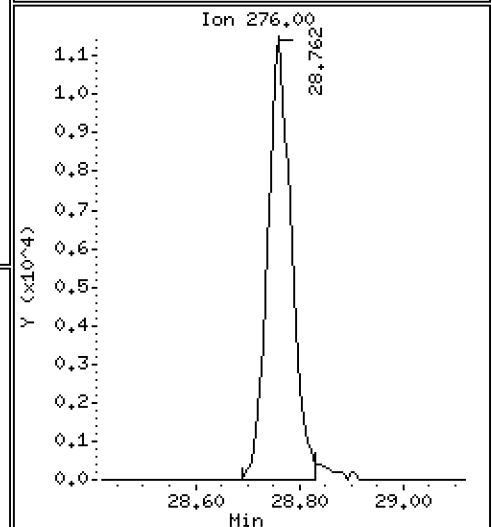
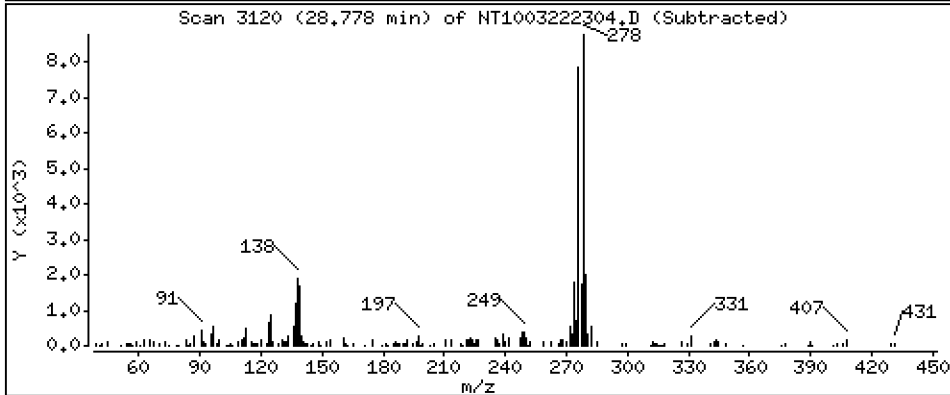
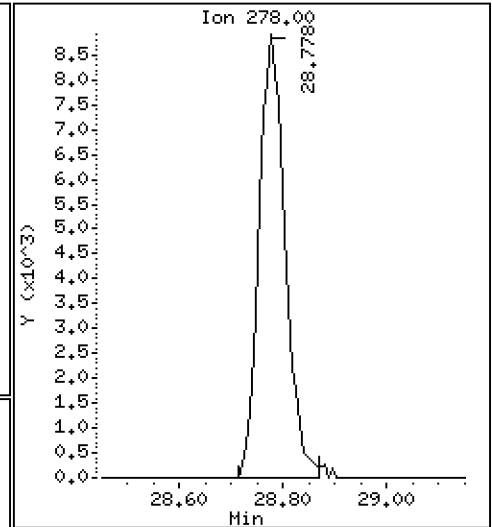
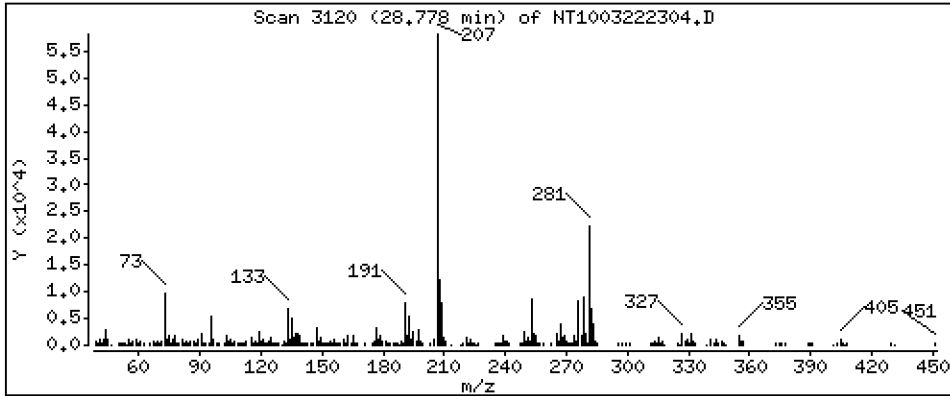
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2068 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

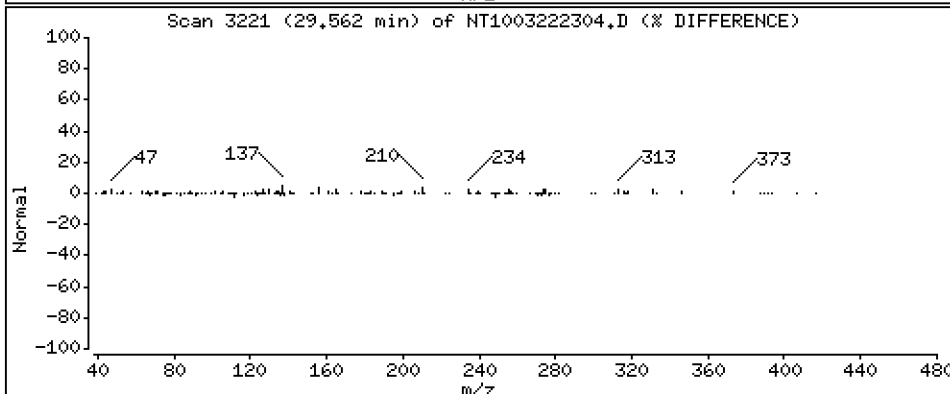
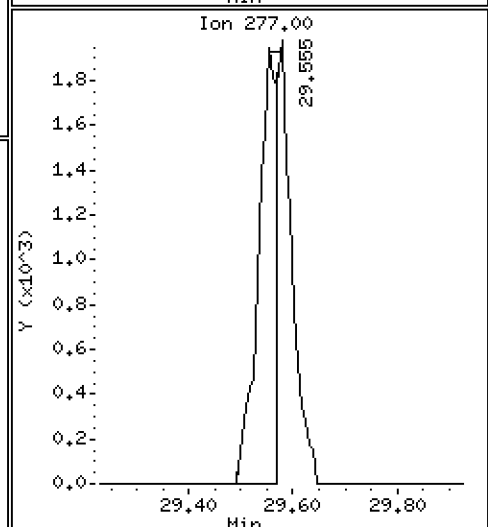
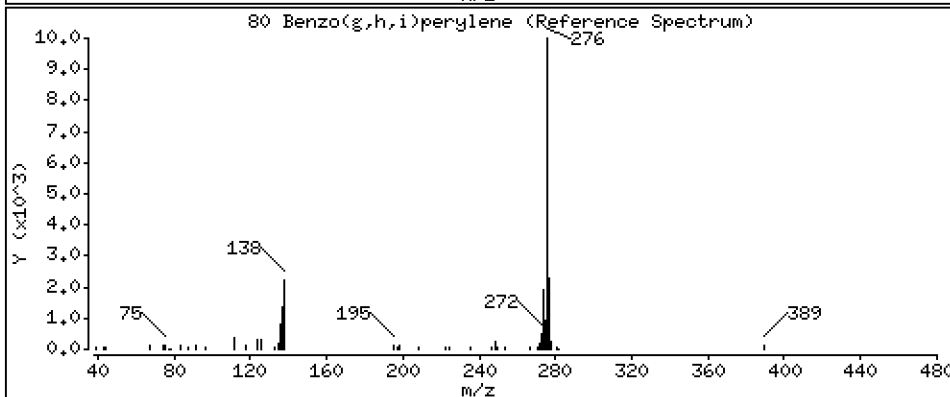
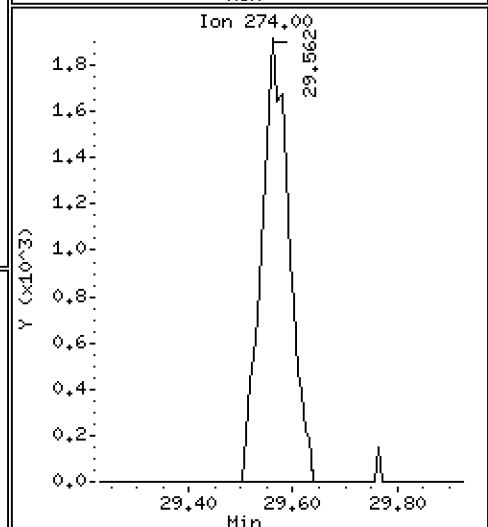
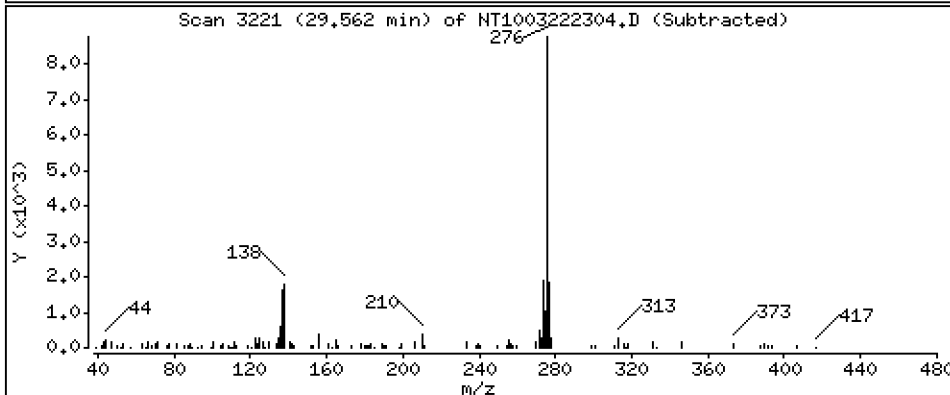
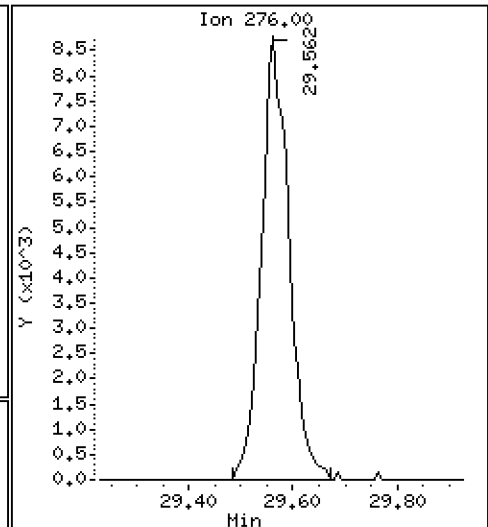
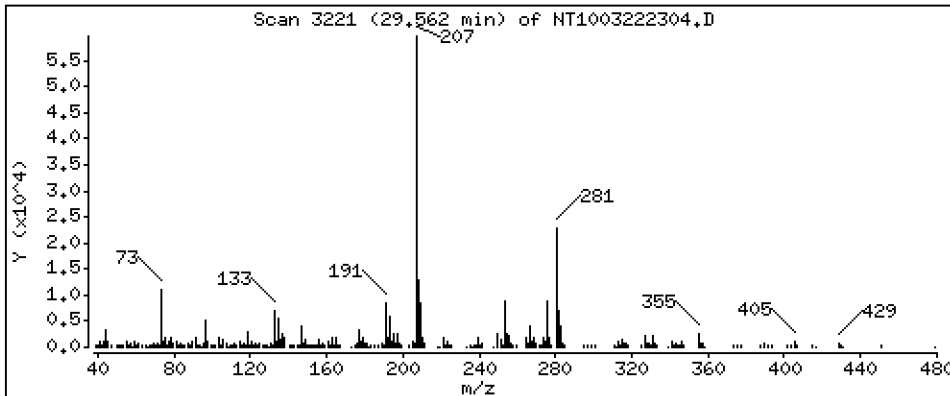
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,2049 ug/mL





Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

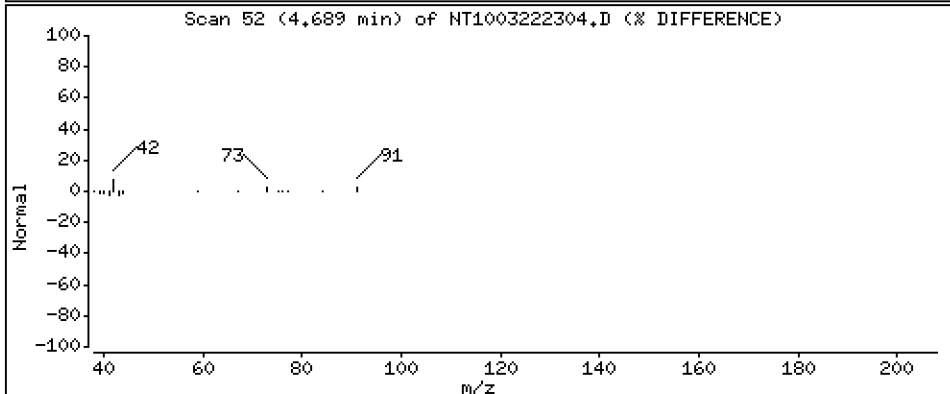
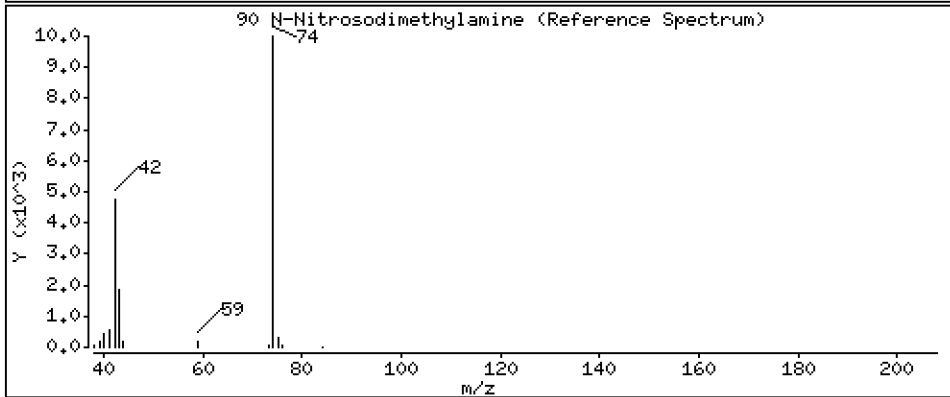
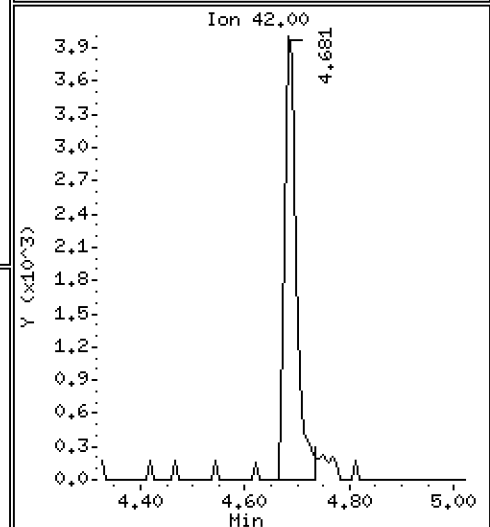
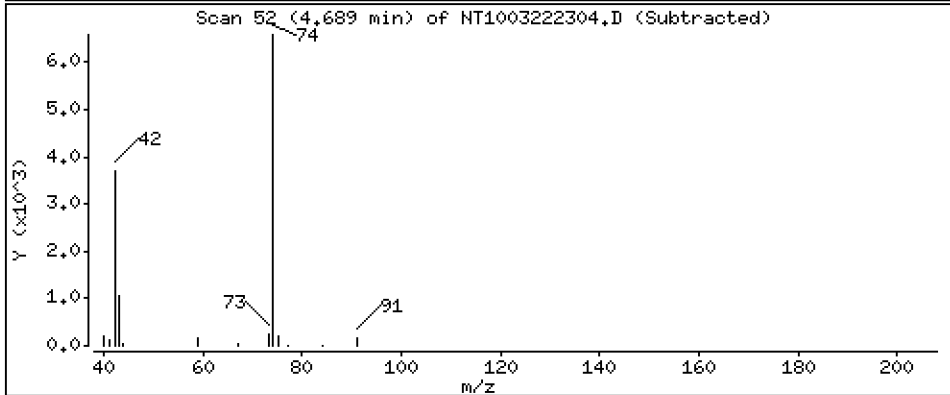
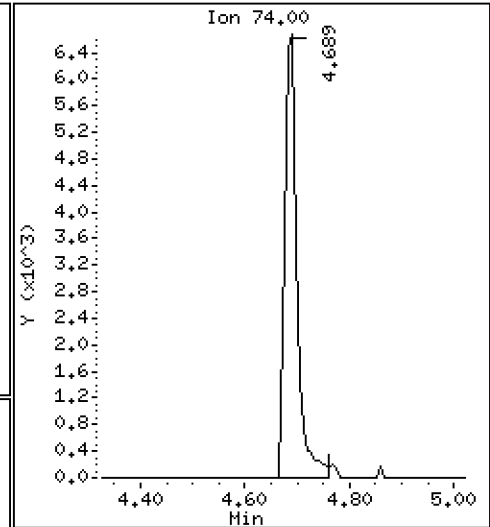
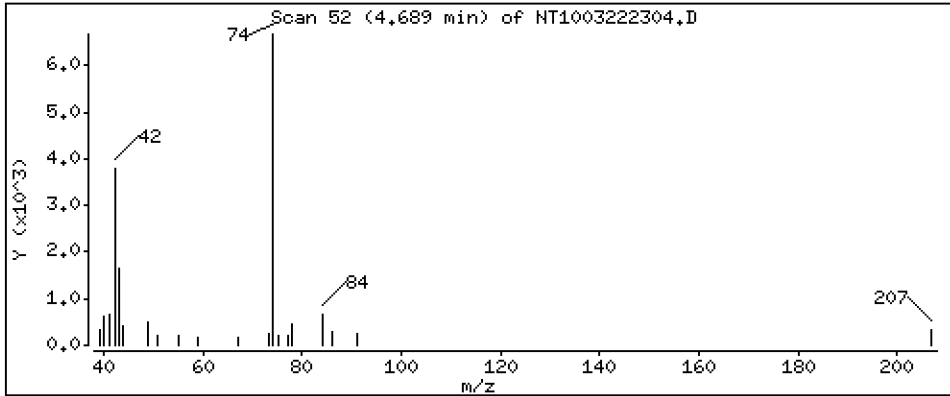
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,3834 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

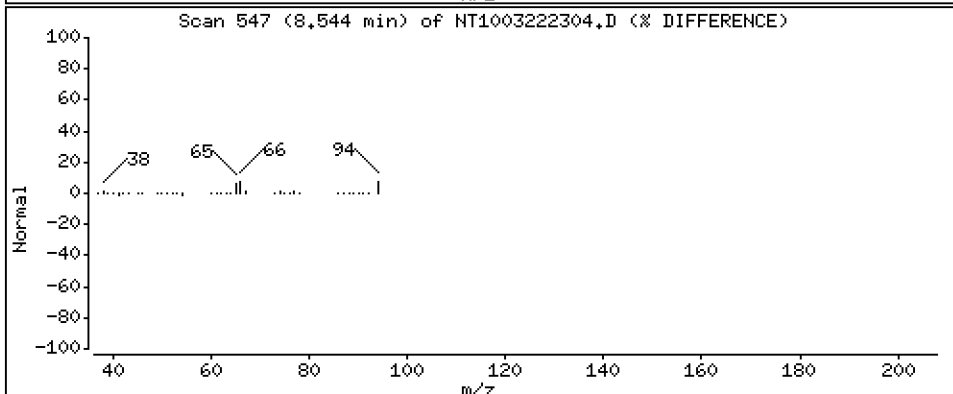
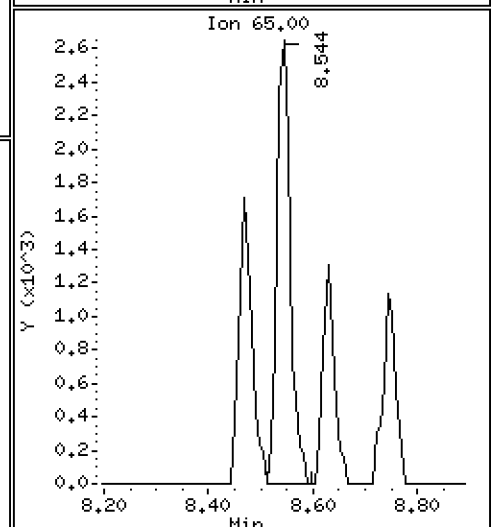
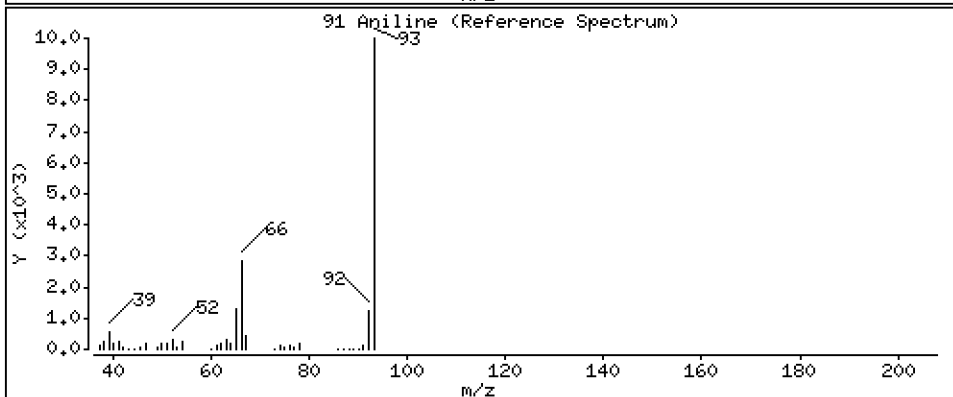
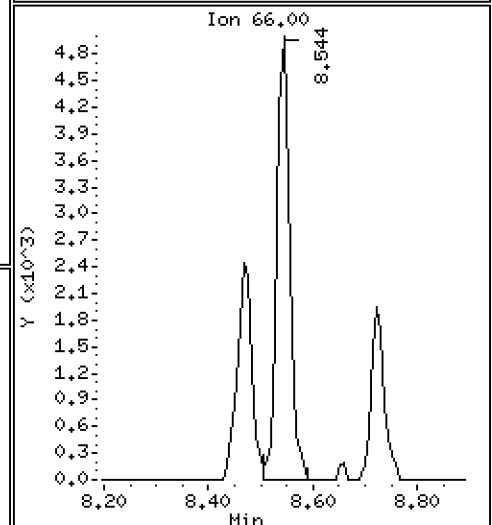
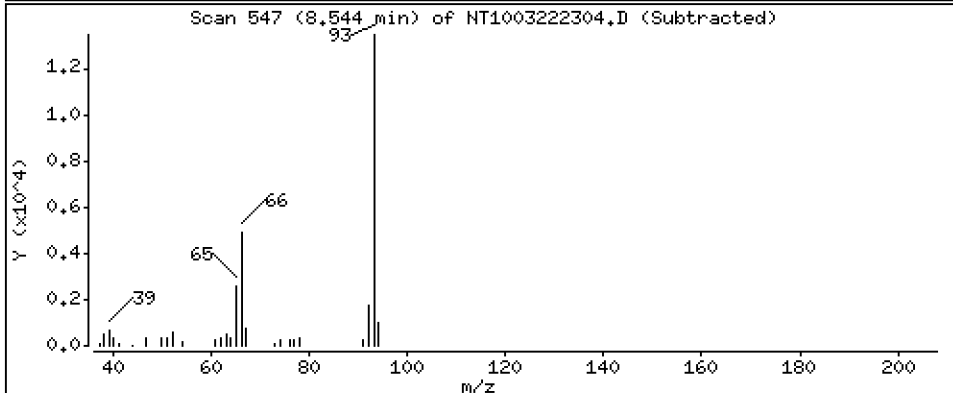
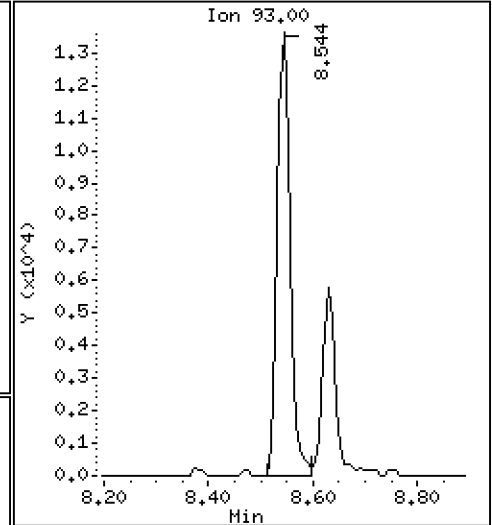
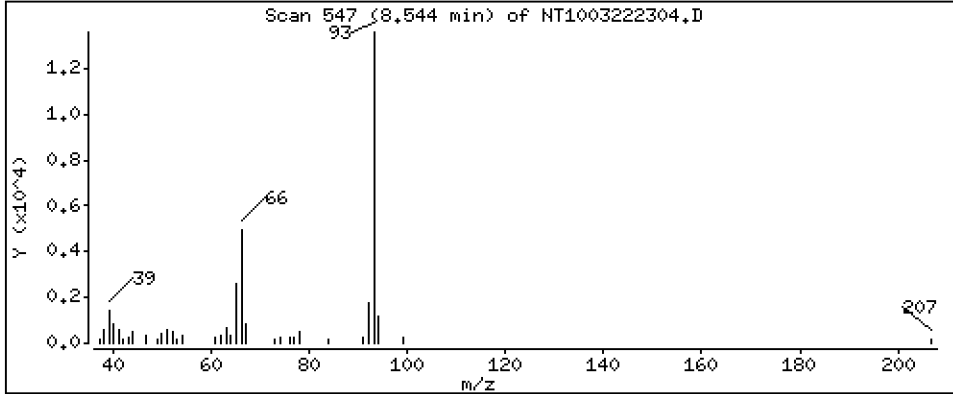
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,3715 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

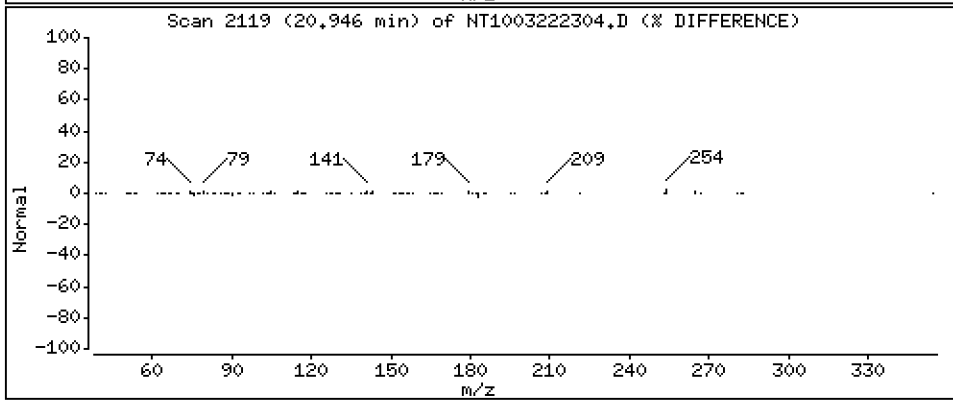
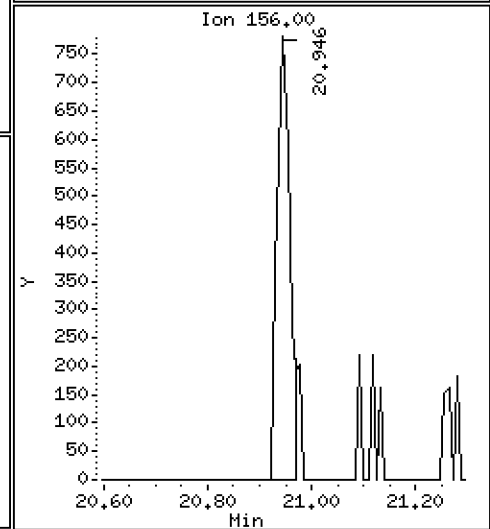
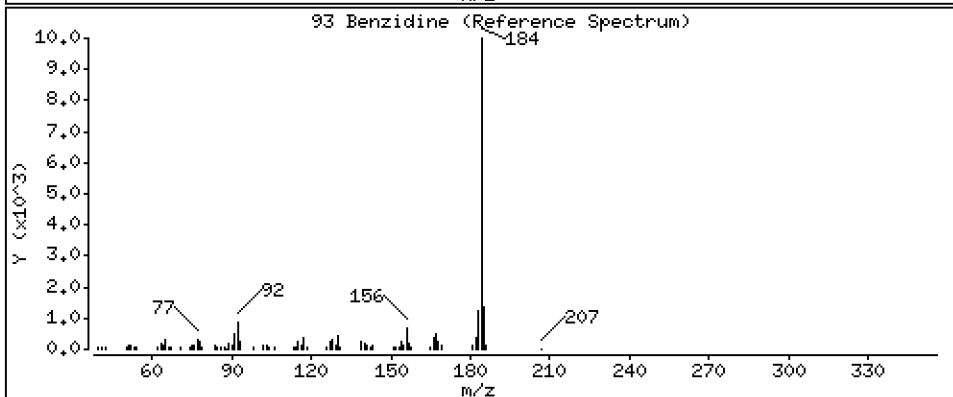
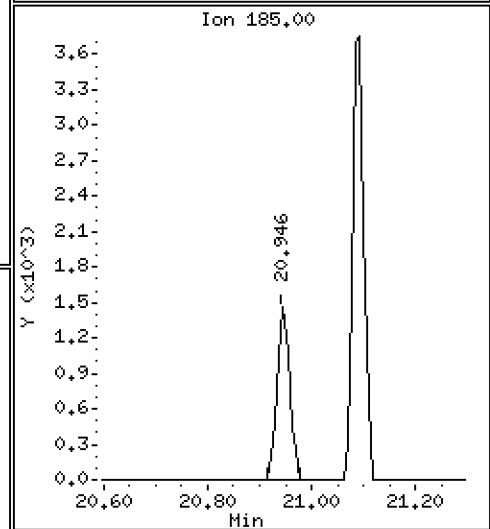
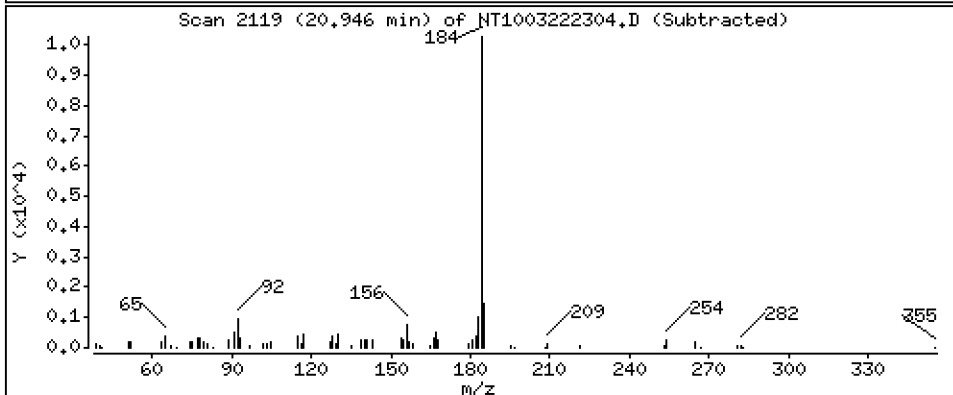
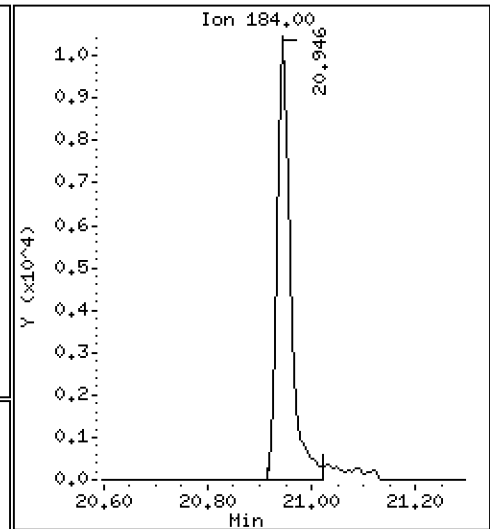
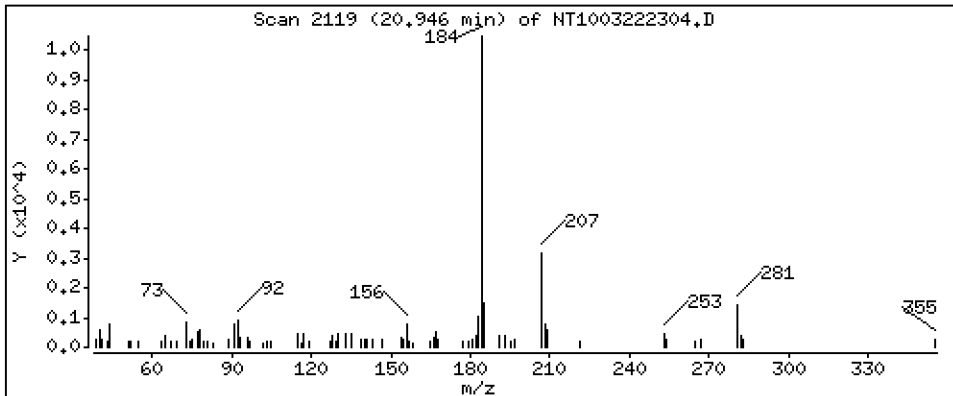
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,2508 ug/mL

93 Benzidine



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

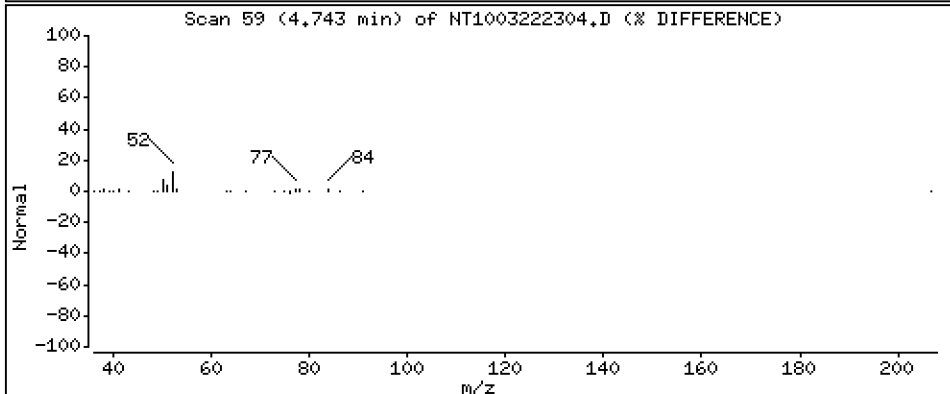
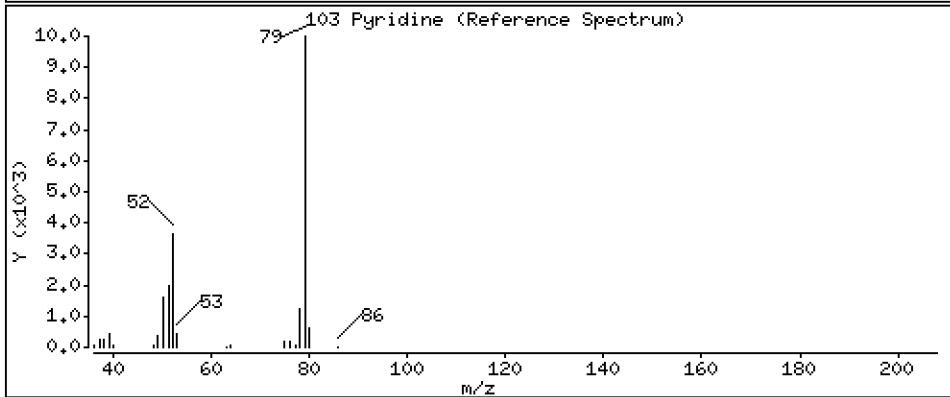
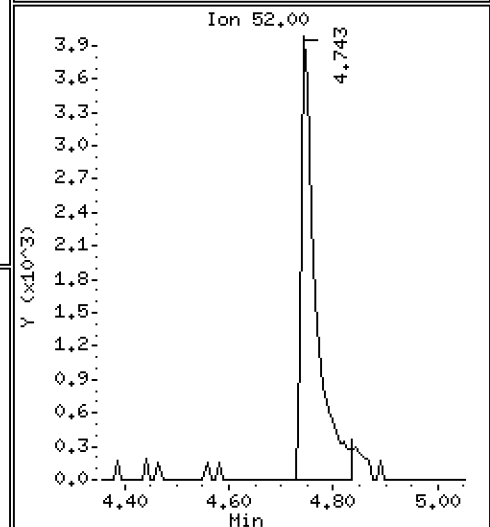
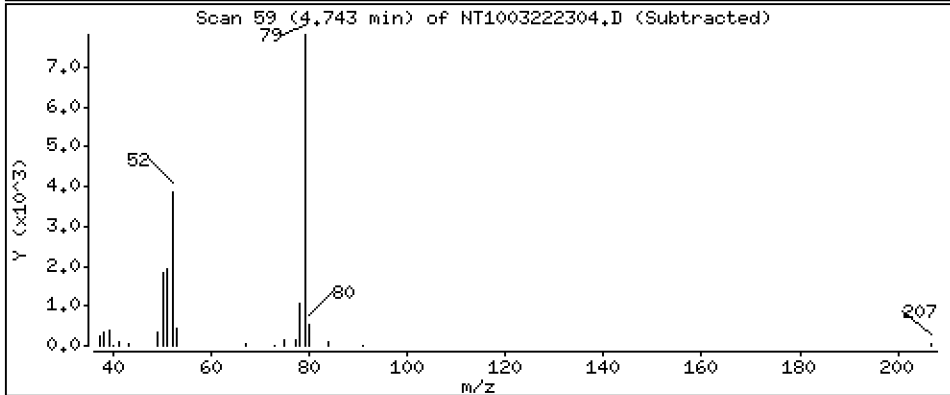
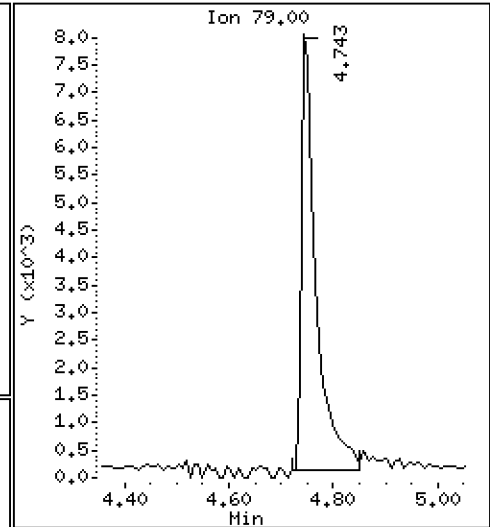
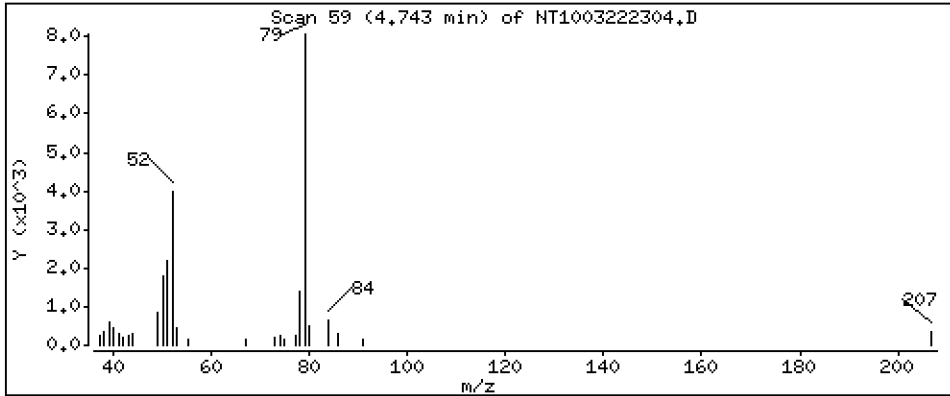
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,3765 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

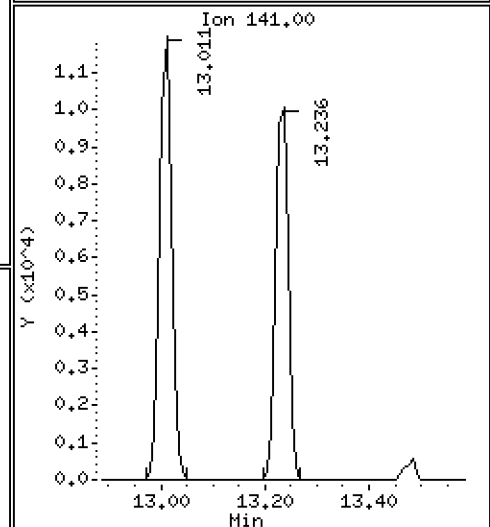
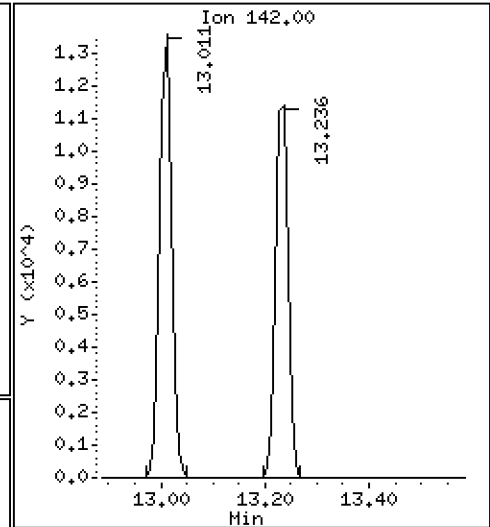
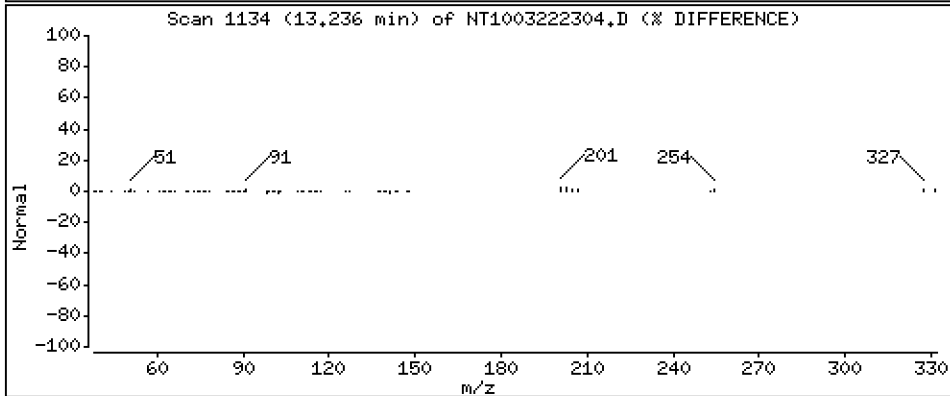
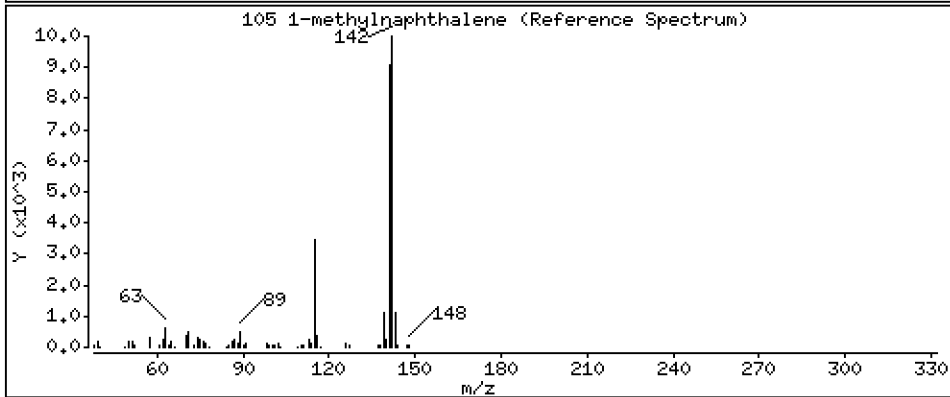
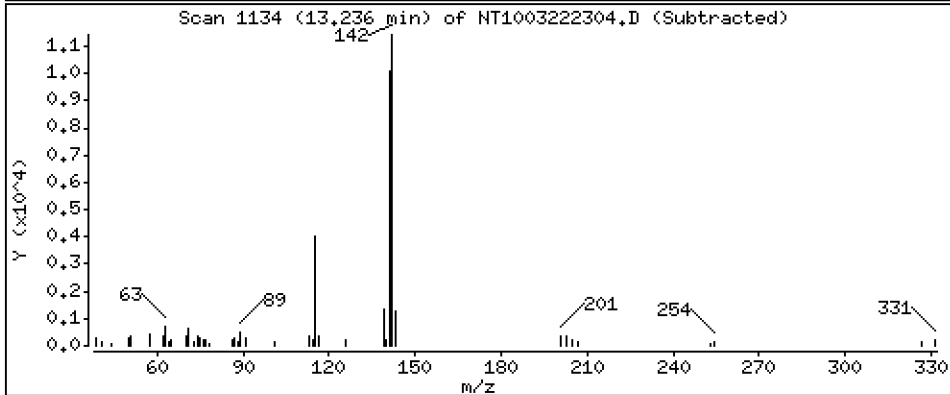
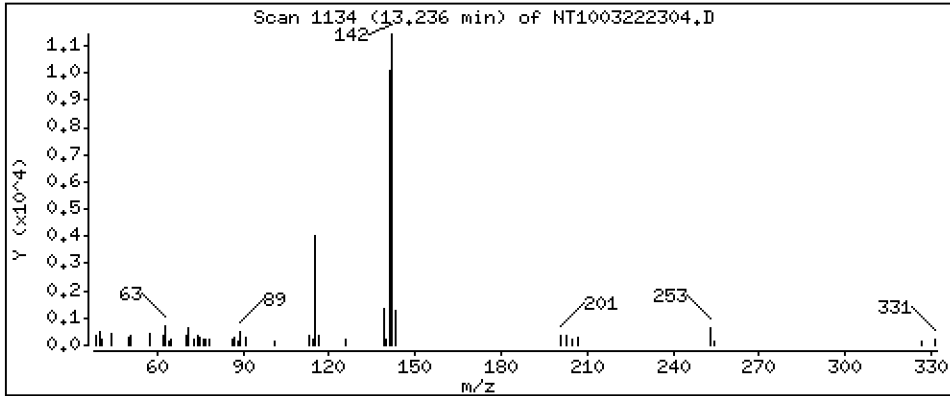
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,2057 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

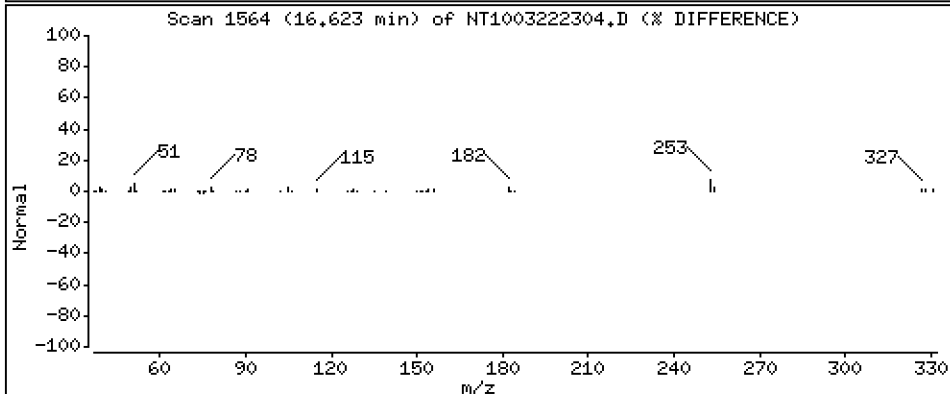
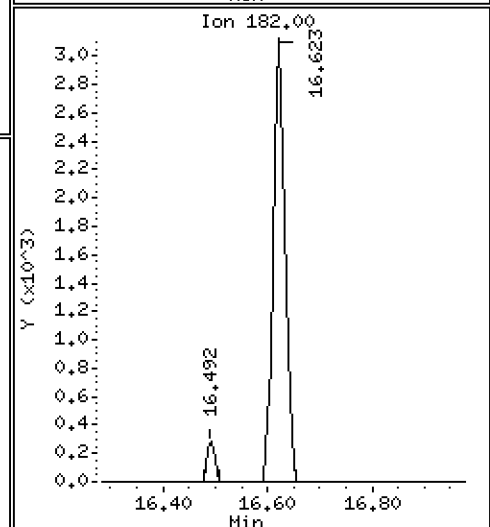
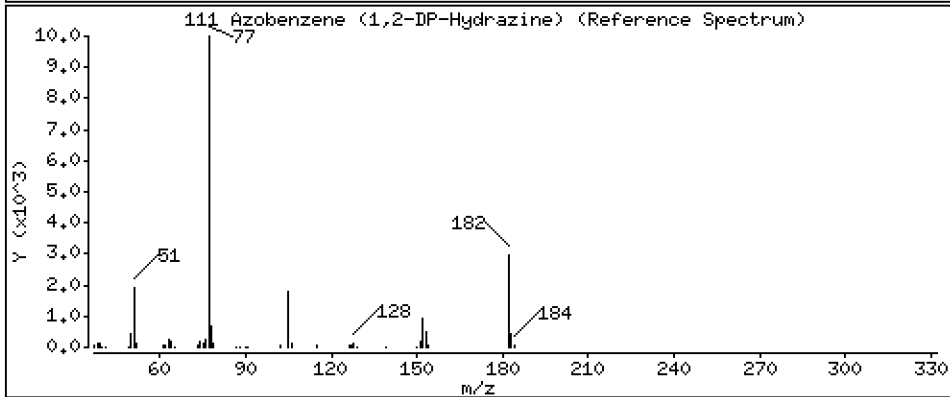
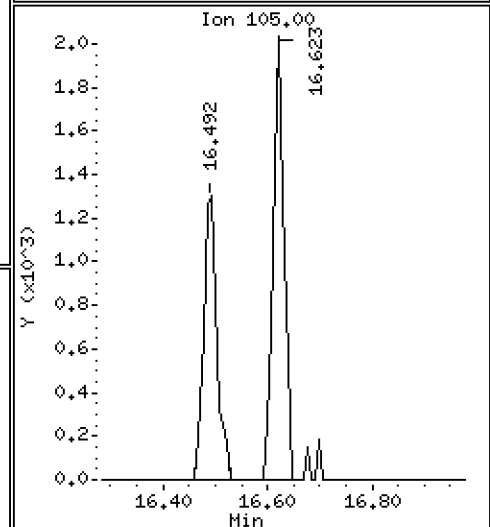
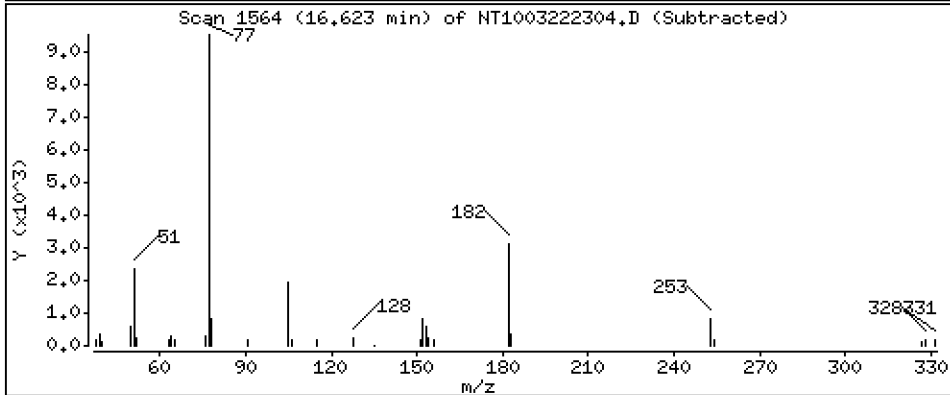
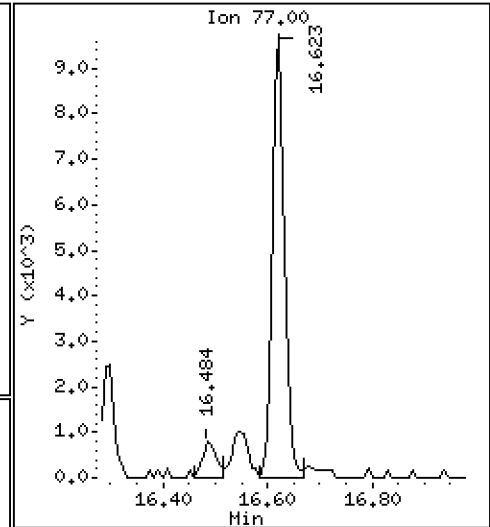
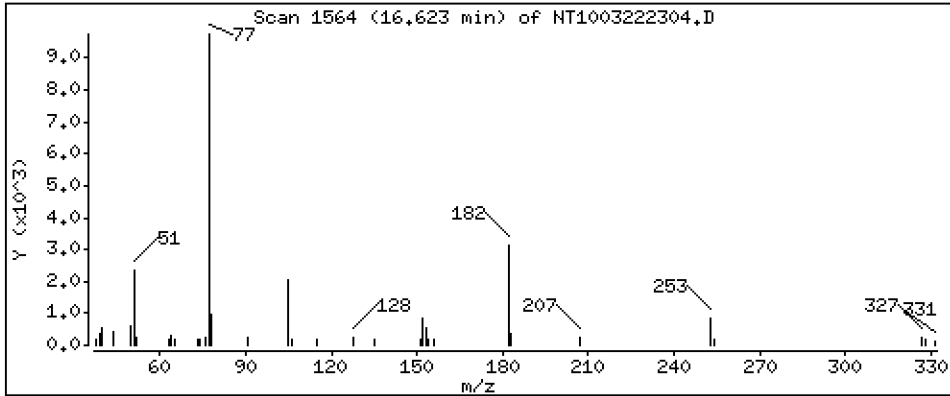
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,1573 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

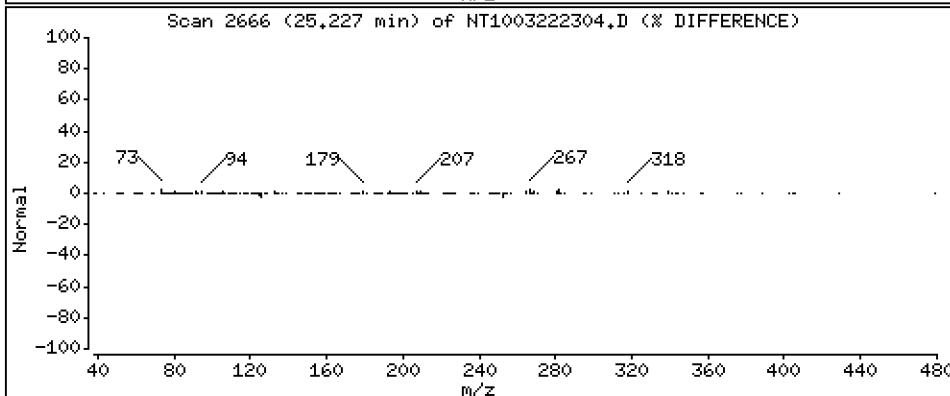
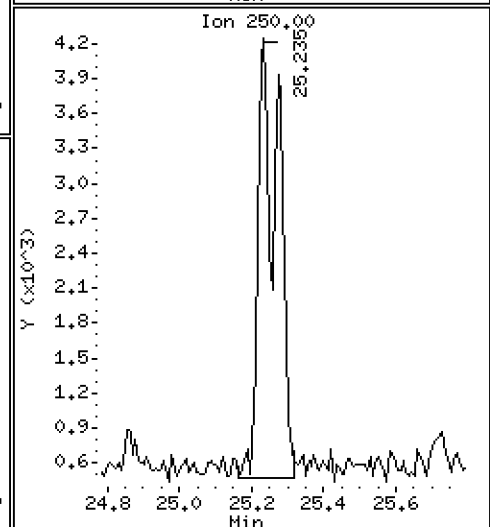
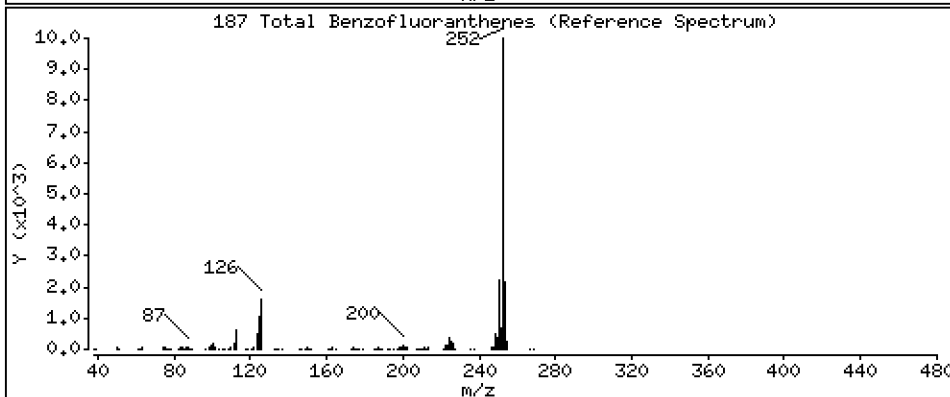
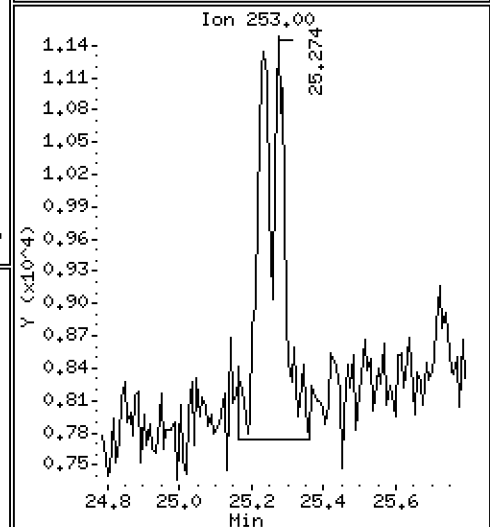
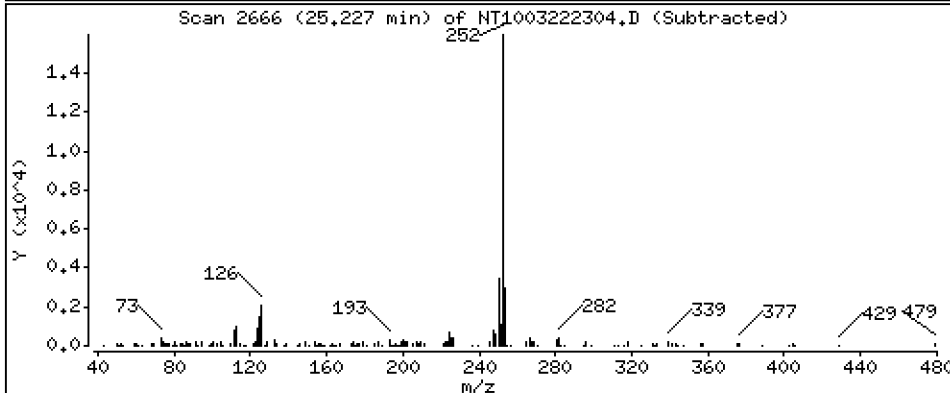
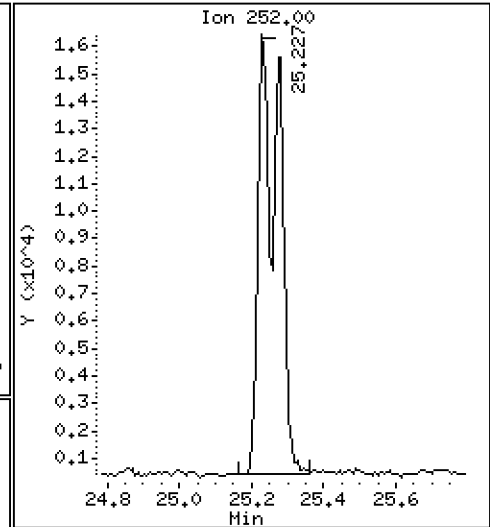
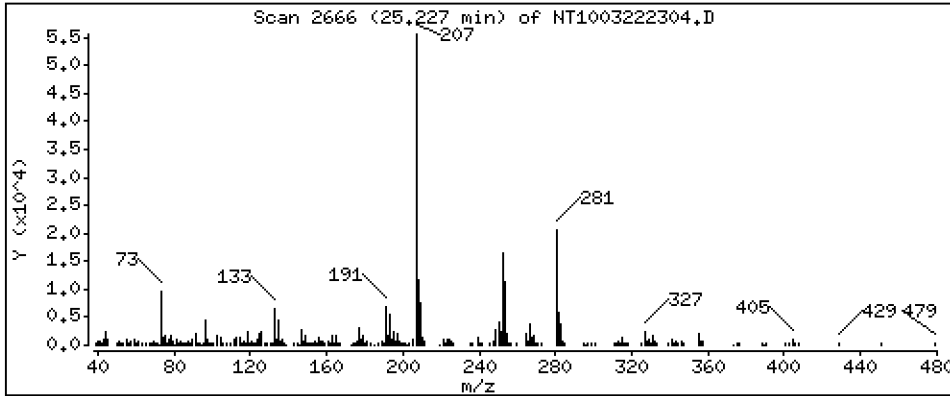
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,4084 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

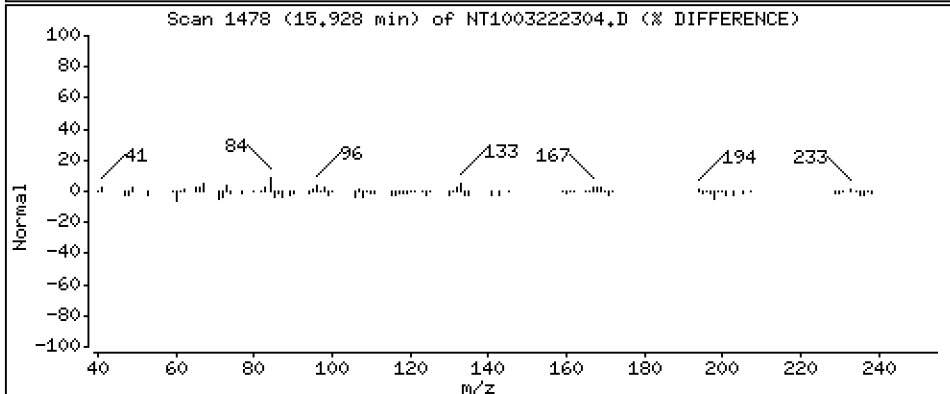
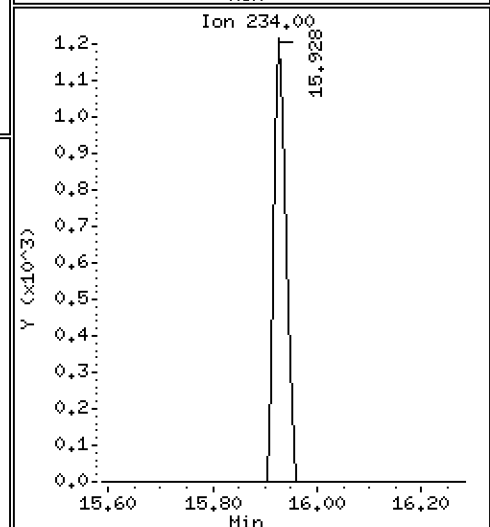
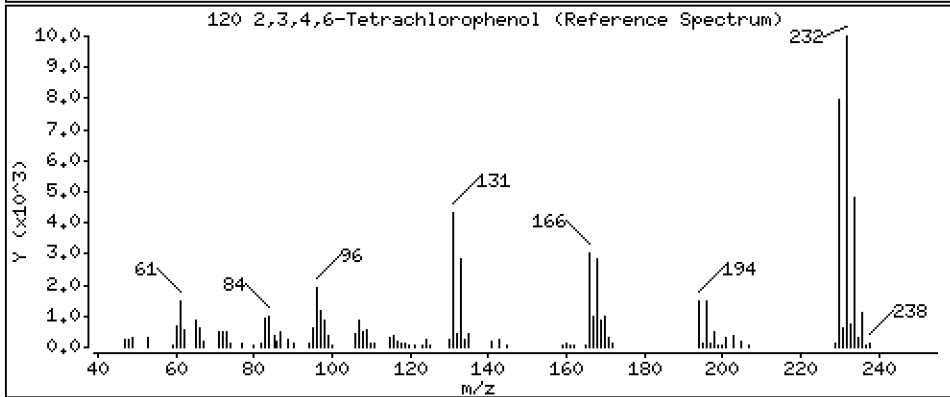
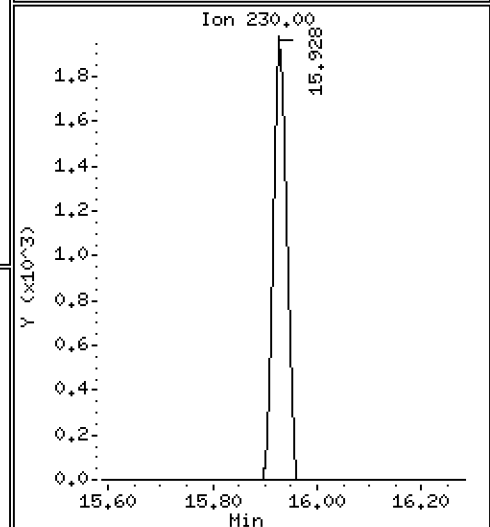
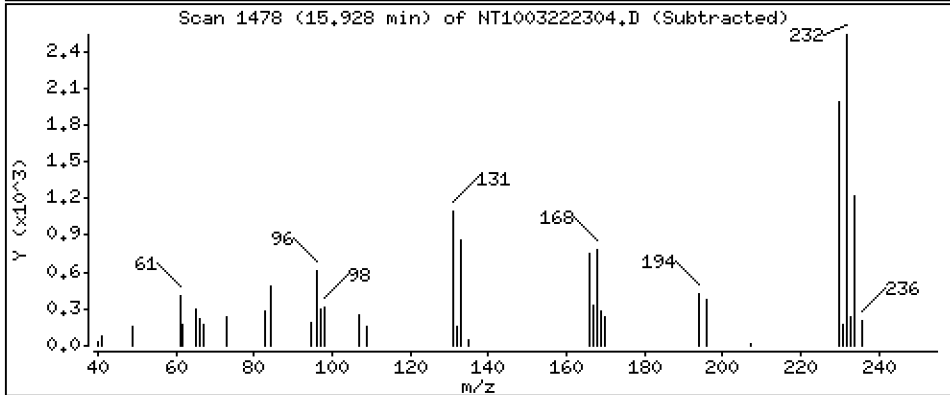
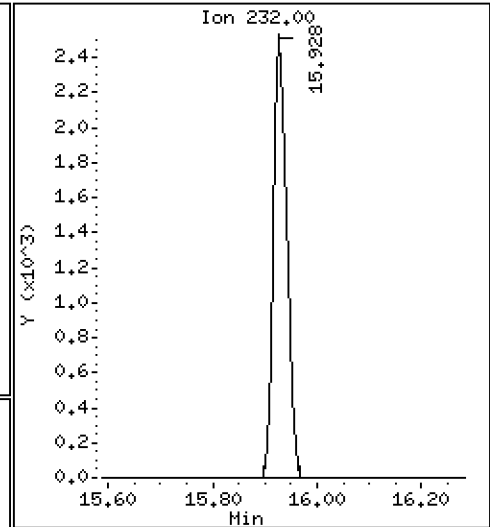
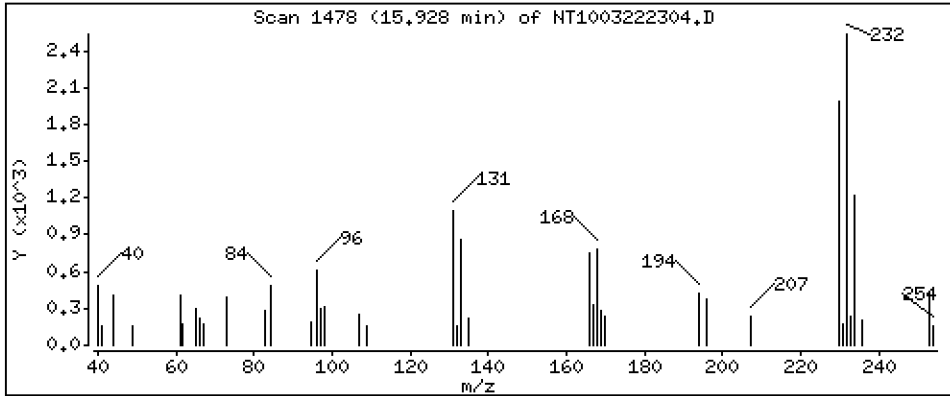
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1565 ug/mL





ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222304.D  
 Lab Smp Id: SLC0397-LCV1  
 Inj Date : 22-MAR-2023 18:59  
 Operator : VTS  
 Smp Info : SLC0397-LCV1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 07:55 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |            |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|------------|
|                                 |       |     |        |        |         |          | ON-COLUMN      | FINAL      |
|                                 | MASS  |     |        |        |         |          | (ug/mL)        | (ug/mL)    |
| \$ 1 2-Fluorophenol             | 112   |     | 6.859  | 6.851  | (0.755) | 12966    | 0.30189        | 0.3019     |
| \$ 2 Phenol-d5                  | 99    |     | 8.451  | 8.450  | (0.930) | 15517    | 0.27540        | 0.2754     |
| 3 Phenol                        | 94    |     | 8.466  | 8.473  | (0.932) | 10955    | 0.18711        | 0.1871     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.721  | 8.721  | (0.960) | 14282    | 0.29684        | 0.2968     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.628  | 8.628  | (0.950) | 8771     | 0.20198        | 0.2020     |
| 6 2-Chlorophenol                | 128   |     | 8.752  | 8.752  | (0.963) | 9410     | 0.18779        | 0.1878     |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.015  | 9.022  | (0.992) | 11613    | 0.21921        | 0.2192     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.085  | 9.084  | (1.000) | 142022   | 4.00000        |            |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.116  | 9.115  | (1.003) | 10855    | 0.21211        | 0.2121     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.442  | 9.449  | (1.039) | 7265     | 0.21026        | 0.2103     |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.473  | 9.472  | (1.043) | 10817    | 0.21477        | 0.2148     |
| 11 Benzyl alcohol               | 108   |     | 9.364  | 9.356  | (1.031) | 4762     | 0.17328        | 0.1733     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.651  | 9.659  | (1.062) | 3016     | 0.20391        | 0.2039 (M) |
| 13 2-Methylphenol               | 108   |     | 9.589  | 9.589  | (1.056) | 7796     | 0.18266        | 0.1827     |
| 17 Hexachloroethane             | 117   |     | 10.063 | 10.062 | (1.108) | 4102     | 0.19536        | 0.1954     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.915  | 9.923  | (1.091) | 5841     | 0.17332        | 0.1733     |
| 15 4-Methylphenol               | 108   |     | 9.853  | 9.853  | (1.085) | 7958     | 0.17696        | 0.1770     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.179 | 10.187 | (0.880) | 8828     | 0.17323        | 0.1732     |
| 19 Nitrobenzene                 | 77    |     | 10.218 | 10.218 | (0.883) | 9268     | 0.18532        | 0.1853     |
| 20 Isophorone                   | 82    |     | 10.668 | 10.668 | (0.922) | 10014    | 0.15653        | 0.1565     |
| 21 2-Nitrophenol                | 139   |     | 10.850 | 10.850 | (0.938) | 5353     | 0.22012        | 0.2201 (M) |
| 22 2,4-Dimethylphenol           | 107   |     | 10.901 | 10.901 | (0.942) | 16512    | 0.35947        | 0.3595     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.096 | 11.096 | (0.959) | 8305     | 0.19434        | 0.1943     |
| 24 Benzoic acid                 | 105   |     | 10.994 | 11.104 | (0.950) | 7775     | 0.30470        | 0.3047     |
| 25 2,4-Dichlorophenol           | 162   |     | 11.300 | 11.300 | (0.976) | 13883    | 0.37768        | 0.3777     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.487 | 11.487 | (0.993) | 9517     | 0.22056        | 0.2206     |
| * 27 Naphthalene-d8             | 136   |     | 11.572 | 11.572 | (1.000) | 504872   | 4.00000        |            |
| 28 Naphthalene                  | 128   |     | 11.611 | 11.611 | (1.003) | 28117    | 0.21022        | 0.2102     |
| 29 4-Chloroaniline              | 127   |     | 11.742 | 11.750 | (1.015) | 18626    | 0.35697        | 0.3570     |
| 30 Hexachlorobutadiene          | 225   |     | 11.974 | 11.974 | (1.035) | 6037     | 0.23878        | 0.2388     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.709 | 12.709 | (1.098) | 13431    | 0.33752        | 0.3375     |
| 32 2-Methylnaphthalene          | 142   |     | 13.011 | 13.011 | (1.124) | 20613    | 0.21356        | 0.2136     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.475 | 13.475 | (0.887) | 6066     | 0.23759        | 0.2376     |

| Compounds                         | QUANT SIG |        |        |         |          | CONCENTRATIONS       |                  |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 13.630 | 13.637 | (0.897) | 9955     | 0.36511              | 0.3651           |
| 35 2,4,5-Trichlorophenol          | 196       | 13.707 | 13.707 | (0.902) | 10092    | 0.33311              | 0.3331           |
| § 36 2-Fluorobiphenyl             | 172       | 13.793 | 13.800 | (0.908) | 22479    | 0.20599              | 0.2060           |
| 37 2-Chloronaphthalene            | 162       | 14.001 | 14.009 | (0.922) | 17503    | 0.19809              | 0.1981           |
| 38 2-Nitroaniline                 | 65        | 14.265 | 14.272 | (0.939) | 6527     | 0.26297              | 0.2630           |
| 39 Dimethylphthalate              | 163       | 14.698 | 14.706 | (0.967) | 18264    | 0.20380              | 0.2038           |
| 40 Acenaphthylene                 | 152       | 14.876 | 14.884 | (0.979) | 27295    | 0.19824              | 0.1982           |
| 41 2,6-Dinitrotoluene             | 165       | 14.837 | 14.845 | (0.977) | 6279     | 0.32433              | 0.3243           |
| * 42 Acenaphthene-d10             | 164       | 15.193 | 15.193 | (1.000) | 275869   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138       | 15.124 | 15.131 | (0.995) | 5745     | 0.26291              | 0.2629           |
| 44 Acenaphthene                   | 153       | 15.255 | 15.263 | (1.004) | 16836    | 0.19793              | 0.1979           |
| 45 2,4-Dinitrophenol              | 184       | 15.340 | 15.340 | (1.010) | 1817     | 0.15549              | 0.1555 (M)       |
| 46 Dibenzofuran                   | 168       | 15.587 | 15.595 | (1.026) | 25515    | 0.20341              | 0.2034           |
| 47 4-Nitrophenol                  | 109       | 15.456 | 15.456 | (1.017) | 2179     | 0.15854              | 0.1585           |
| 48 2,4-Dinitrotoluene             | 165       | 15.649 | 15.657 | (1.030) | 7887     | 0.26933              | 0.2693           |
| 50 Diethylphthalate               | 149       | 16.160 | 16.175 | (1.064) | 20158    | 0.22925              | 0.2293           |
| 49 Fluorene                       | 166       | 16.299 | 16.306 | (1.073) | 20785    | 0.21062              | 0.2106           |
| 51 4-Chlorophenyl-phenylether     | 204       | 16.299 | 16.298 | (1.073) | 10392    | 0.22145              | 0.2215           |
| 52 4-Nitroaniline                 | 138       | 16.399 | 16.406 | (1.079) | 4836     | 0.24558              | 0.2456           |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 16.491 | 16.499 | (0.904) | 5638     | 0.37315              | 0.3731           |
| 54 N-Nitrosodiphenylamine         | 169       | 16.545 | 16.553 | (0.907) | 12819    | 0.19182              | 0.1918           |
| § 55 2,4,6-Tribromophenol         | 330       | 16.838 | 16.846 | (1.108) | 3326     | 0.25625              | 0.2563           |
| 56 4-Bromophenyl-phenylether      | 248       | 17.309 | 17.308 | (0.949) | 5746     | 0.20552              | 0.2055           |
| 57 Hexachlorobenzene              | 284       | 17.618 | 17.626 | (0.966) | 6920     | 0.23608              | 0.2361           |
| 58 Pentachlorophenol              | 266       | 17.982 | 17.990 | (0.986) | 3831     | 0.22090              | 0.2209           |
| * 59 Phenanthrene-d10             | 188       | 18.245 | 18.253 | (1.000) | 499862   | 4.00000              |                  |
| 60 Phenanthrene                   | 178       | 18.292 | 18.299 | (1.003) | 28189    | 0.20681              | 0.2068           |
| 61 Anthracene                     | 178       | 18.384 | 18.392 | (1.008) | 23797    | 0.18201              | 0.1820           |
| 62 Carbazole                      | 167       | 18.725 | 18.725 | (1.026) | 21462    | 0.18318              | 0.1832           |
| 63 Di-n-butylphthalate            | 149       | 19.537 | 19.545 | (1.071) | 32529    | 0.20650              | 0.2065           |
| 64 Fluoranthene                   | 202       | 20.698 | 20.705 | (0.887) | 31900    | 0.18328              | 0.1833           |
| 65 Pyrene                         | 202       | 21.123 | 21.131 | (0.905) | 32670    | 0.18298              | 0.1830           |
| § 66 Terphenyl-d14                | 244       | 21.425 | 21.425 | (0.918) | 27049    | 0.20173              | 0.2017           |
| 67 Butylbenzylphthalate           | 149       | 22.370 | 22.369 | (0.958) | 11514    | 0.18364              | 0.1836           |
| 68 Benzo(a)anthracene             | 228       | 23.314 | 23.314 | (0.999) | 30657    | 0.20051              | 0.2005           |
| * 69 Chrysene-d12                 | 240       | 23.345 | 23.345 | (1.000) | 433161   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252       | 23.276 | 23.275 | (0.997) | 28893    | 0.58997              | 0.5900           |
| 71 Chrysene                       | 228       | 23.384 | 23.392 | (1.002) | 30672    | 0.20534              | 0.2053           |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 23.407 | 23.407 | (0.959) | 14932    | 0.16530              | 0.1653           |
| * 134 Di-n-octylphthalate-d4      | 153       | 24.414 | 24.413 | (1.000) | 617649   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149       | 24.421 | 24.429 | (1.000) | 33313    | 0.20610              | 0.2061           |
| 74 Benzo(b)fluoranthene           | 252       | 25.227 | 25.242 | (0.969) | 34685    | 0.21619              | 0.2162           |
| 75 Benzo(k)fluoranthene           | 252       | 25.273 | 25.288 | (0.971) | 31535    | 0.19357              | 0.1936           |
| 76 Benzo(a)pyrene                 | 252       | 25.900 | 25.908 | (0.995) | 29387    | 0.20487              | 0.2049           |
| * 77 Perylene-d12                 | 264       | 26.024 | 26.024 | (1.000) | 494952   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 28.762 | 28.769 | (1.105) | 36004    | 0.19729              | 0.1973           |
| 79 Dibenzo(a,h)anthracene         | 278       | 28.777 | 28.800 | (1.106) | 31325    | 0.20675              | 0.2068           |
| 80 Benzo(g,h,i)perylene           | 276       | 29.562 | 29.577 | (1.136) | 32367    | 0.20494              | 0.2049           |
| 90 N-Nitrosodimethylamine         | 74        | 4.689  | 4.673  | (0.516) | 10506    | 0.38342              | 0.3834           |
| 91 Aniline                        | 93        | 8.543  | 8.543  | (0.940) | 22290    | 0.37155              | 0.3715           |
| 93 Benzidine                      | 184       | 20.945 | 20.945 | (0.897) | 17929    | 0.25078              | 0.2508           |
| 103 Pyridine                      | 79        | 4.743  | 4.704  | (0.522) | 15845    | 0.37653              | 0.3765           |
| 105 1-methylnaphthalene           | 142       | 13.235 | 13.235 | (1.144) | 18195    | 0.20575              | 0.2057           |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 16.622 | 16.630 | (1.094) | 15446    | 0.15726              | 0.1573           |

| Compounds                     | QUANT SIG |  | CONCENTRATIONS |        |         |          |                      |                  |
|-------------------------------|-----------|--|----------------|--------|---------|----------|----------------------|------------------|
|                               | MASS      |  | RT             | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| =====                         | =====     |  | =====          | =====  | =====   | =====    | =====                | =====            |
| 187 Total Benzofluoranthenes  | 252       |  | 25.227         | 25.288 | (0.969) | 63258    | 0.40836              | 0.4084           |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 15.928         | 15.935 | (1.048) | 4346     | 0.15649              | 0.1565           |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 22-MAR-2023  
 Lab File ID: NT1003222304.D Calibration Time: 17:42  
 Lab Smp Id: SLC0397-LCV1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 122478   | 61239      | 244956  | 142022 | 15.96  |
| 27 Naphthalene-d8     | 459261   | 229631     | 918522  | 504872 | 9.93   |
| 42 Acenaphthene-d10   | 264106   | 132053     | 528212  | 275869 | 4.45   |
| 59 Phenanthrene-d10   | 503255   | 251628     | 1006510 | 499862 | -0.67  |
| 69 Chrysene-d12       | 437735   | 218868     | 875470  | 433161 | -1.04  |
| 134 Di-n-octylphthala | 700191   | 350096     | 1400382 | 617649 | -11.79 |
| 77 Perylene-d12       | 499049   | 249525     | 998098  | 494952 | -0.82  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.08     | 8.58     | 9.58  | 9.09   | 0.00  |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.57  | 0.00  |
| 42 Acenaphthene-d10   | 15.19    | 14.69    | 15.69 | 15.19  | 0.00  |
| 59 Phenanthrene-d10   | 18.25    | 17.75    | 18.75 | 18.25  | -0.04 |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.35  | 0.00  |
| 134 Di-n-octylphthala | 24.41    | 23.91    | 24.91 | 24.41  | 0.00  |
| 77 Perylene-d12       | 26.02    | 25.52    | 26.52 | 26.02  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222304.D

Lab ID: SLC0397-LCV1  
nt10.i, 20230322.b\ABN.m, 22-MAR-2023 18:59

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND     |
|-------|---------|---------|--------------|
| 0.950 | 0.960   | -0.0095 | Benzoic acid |

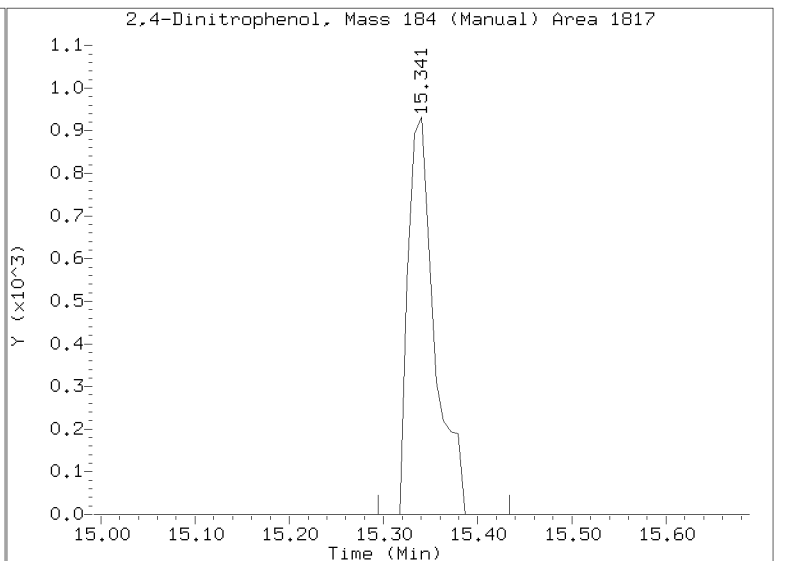
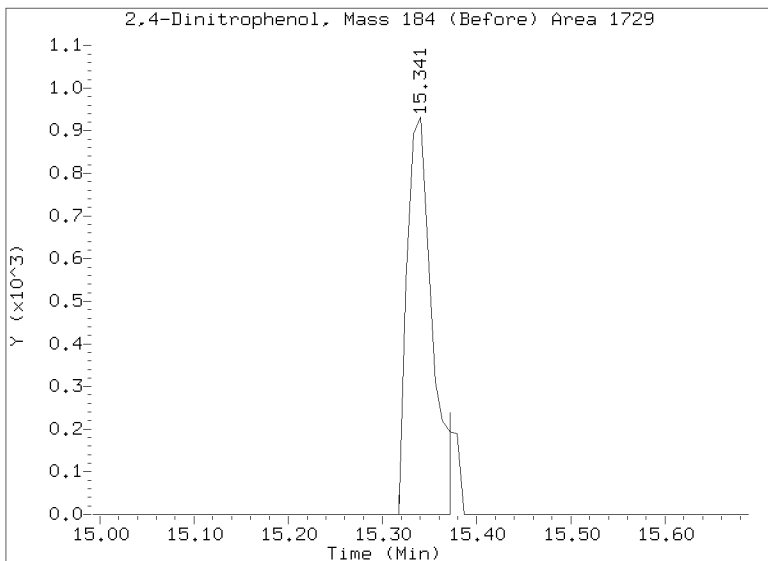
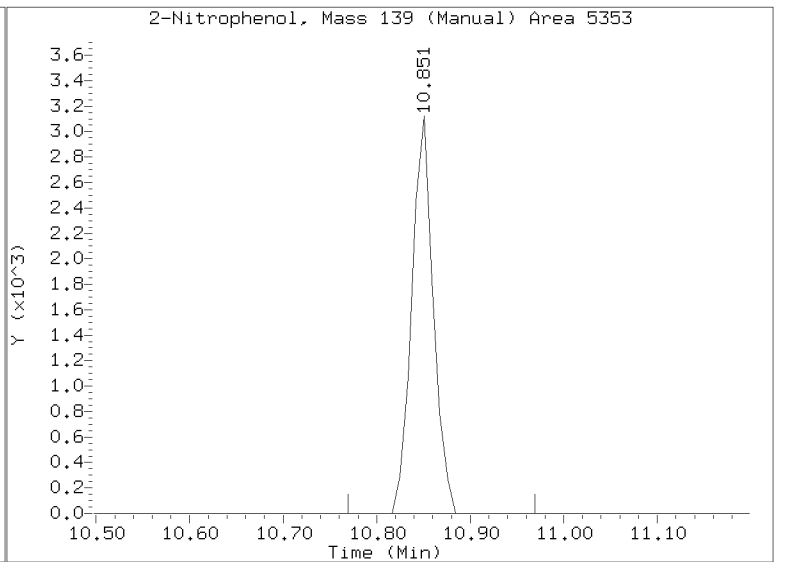
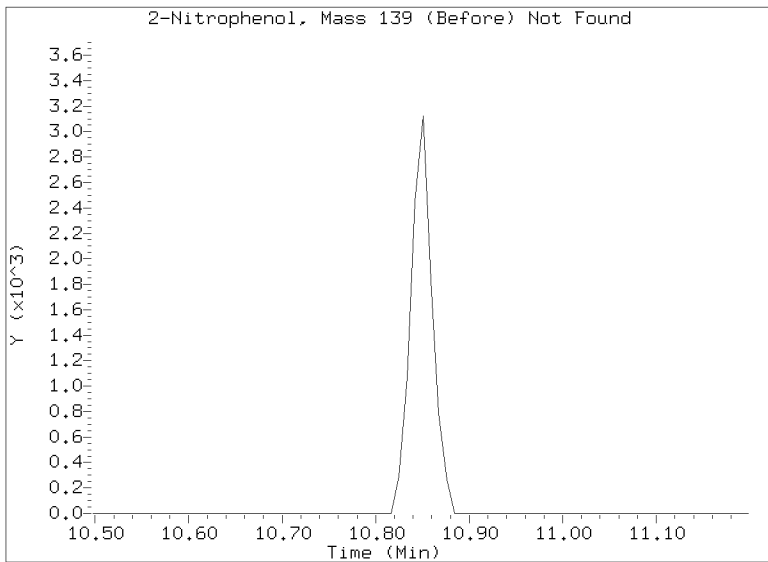
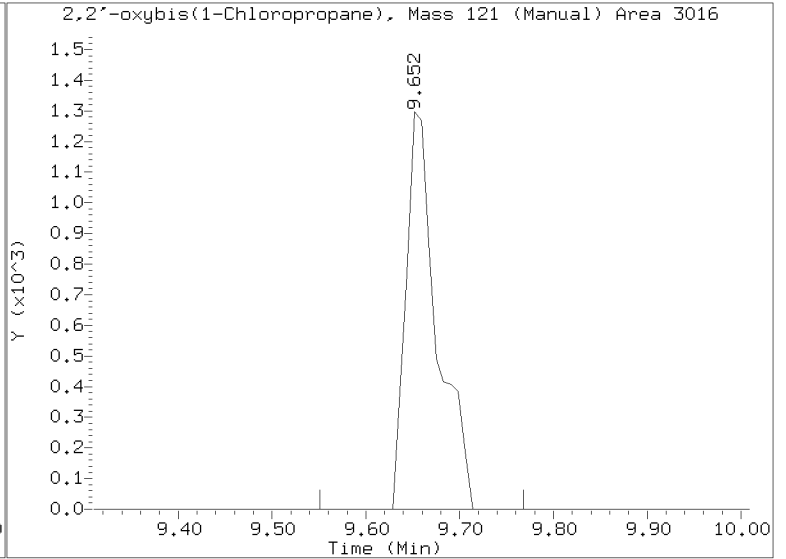
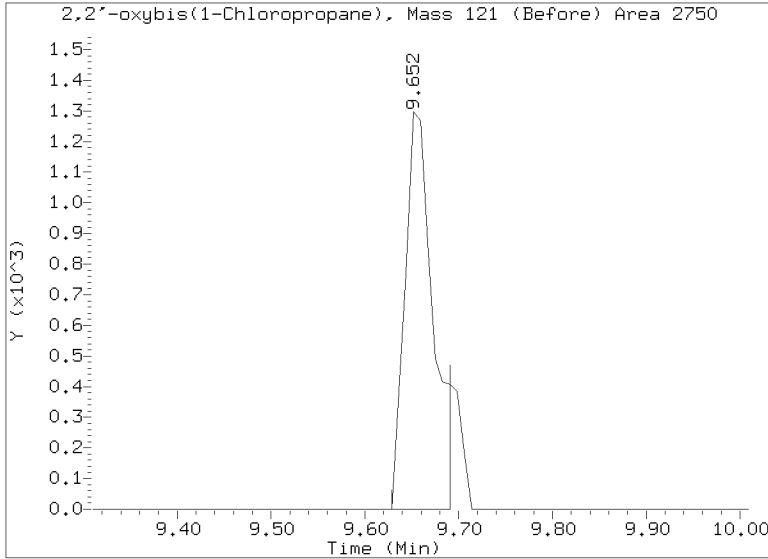
RRT check based on Ccal File: NT1003222302.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222304.D  
Injection Date: 22-MAR-2023 18:59  
Lab ID:SLC0397-LCV1 Client ID:  
Report Date: 03/25/2023 07:55





**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00046

**Laboratory ID:** SLC0397-LCV2

**Sequence:** SLC0397

**Standard ID:** K011105

| ANALYTE                    | EXPECTED<br>(ug/mL) | FOUND<br>(ug/mL) | % DRIFT | QC LIMIT |
|----------------------------|---------------------|------------------|---------|----------|
| Phenol                     | 0.20000             | 0.2              | -4.2    | 50.00    |
| 4-Methylphenol             | 0.20000             | 0.2              | -6.2    | 50.00    |
| Naphthalene                | 0.20000             | 0.2              | 4.0     | 50.00    |
| 2-Methylnaphthalene        | 0.20000             | 0.2              | 6.8     | 50.00    |
| Acenaphthylene             | 0.20000             | 0.2              | 3.9     | 50.00    |
| Dimethylphthalate          | 0.20000             | 0.2              | 6.2     | 50.00    |
| Acenaphthene               | 0.20000             | 0.2              | 3.2     | 50.00    |
| Dibenzofuran               | 0.20000             | 0.2              | 2.3     | 50.00    |
| Fluorene                   | 0.20000             | 0.2              | 5.9     | 50.00    |
| Phenanthrene               | 0.20000             | 0.2              | 4.8     | 50.00    |
| Anthracene                 | 0.20000             | 0.2              | 0.3     | 50.00    |
| Fluoranthene               | 0.20000             | 0.2              | -9.9    | 50.00    |
| Pyrene                     | 0.20000             | 0.2              | -10.5   | 50.00    |
| Butylbenzylphthalate       | 0.20000             | 0.2              | 7.9     | 50.00    |
| Benzo(a)anthracene         | 0.20000             | 0.2              | 7.3     | 50.00    |
| Chrysene                   | 0.20000             | 0.2              | 2.2     | 50.00    |
| bis(2-Ethylhexyl)phthalate | 0.20000             | 0.2              | -6.4    | 50.00    |
| Benzo(a)pyrene             | 0.20000             | 0.2              | 7.9     | 50.00    |
| Indeno(1,2,3-cd)pyrene     | 0.20000             | 0.2              | 1.0     | 50.00    |
| Dibenzo(a,h)anthracene     | 0.20000             | 0.2              | 3.8     | 50.00    |
| Benzo(g,h,i)perylene       | 0.20000             | 0.2              | -5.2    | 50.00    |
| 2-Fluorophenol             | 0.30000             | 0.302            | 0.7     | 50.00    |
| Phenol-d5                  | 0.30000             | 0.289            | -3.7    | 50.00    |
| 2-Chlorophenol-d4          | 0.30000             | 0.302            | 0.7     | 50.00    |
| 1,2-Dichlorobenzene-d4     | 0.20000             | 0.207            | 3.6     | 50.00    |
| Nitrobenzene-d5            | 0.20000             | 0.194            | -2.9    | 50.00    |
| 2-Fluorobiphenyl           | 0.20000             | 0.213            | 6.4     | 50.00    |
| 2,4,6-Tribromophenol       | 0.30000             | 0.282            | -6.0    | 50.00    |



**LOW-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 8270E**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00046

**Laboratory ID:** SLC0397-LCV2

**Sequence:** SLC0397

**Standard ID:** K011105

|                 |         |       |      |       |
|-----------------|---------|-------|------|-------|
| p-Terphenyl-d14 | 0.20000 | 0.199 | -0.7 | 50.00 |
|-----------------|---------|-------|------|-------|

\* Values outside of QC limits



Data File: \\target\share\chem3\nt10,1\20230322,16\NT1003222319.D

Date: 23-MAR-2023 04:30

Client ID:

Sample Info: SLC0397-LCW2

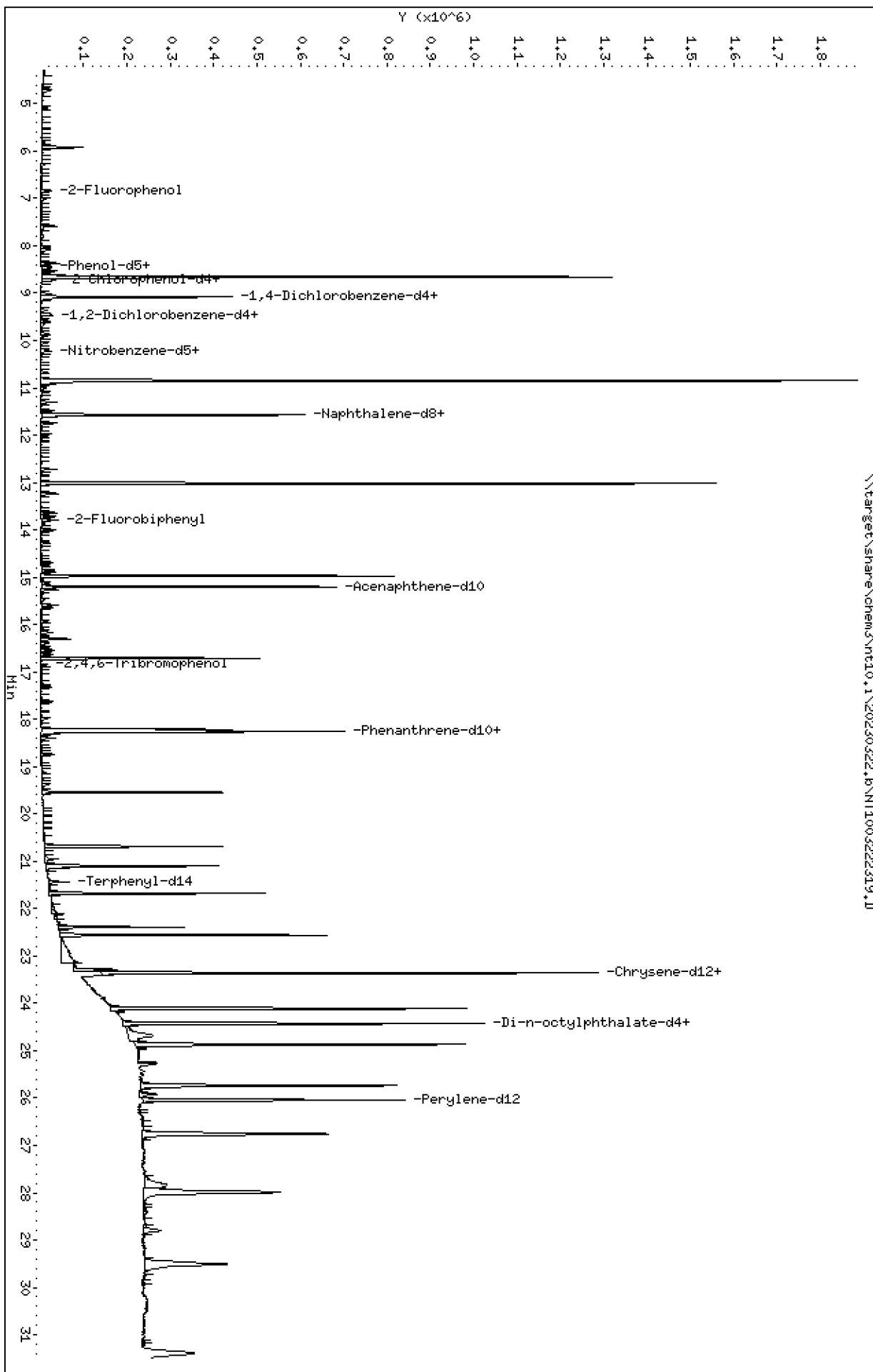
Column phase: ZB-5msi

Instrument: nt10,1

Operator: VTS

Column diameter: 0,25

Page 1



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

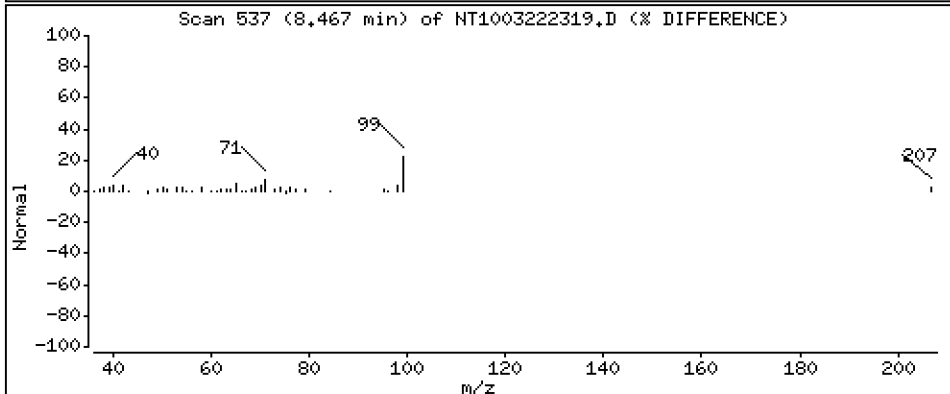
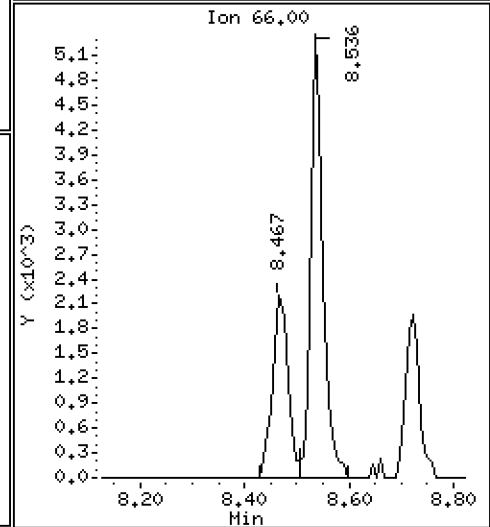
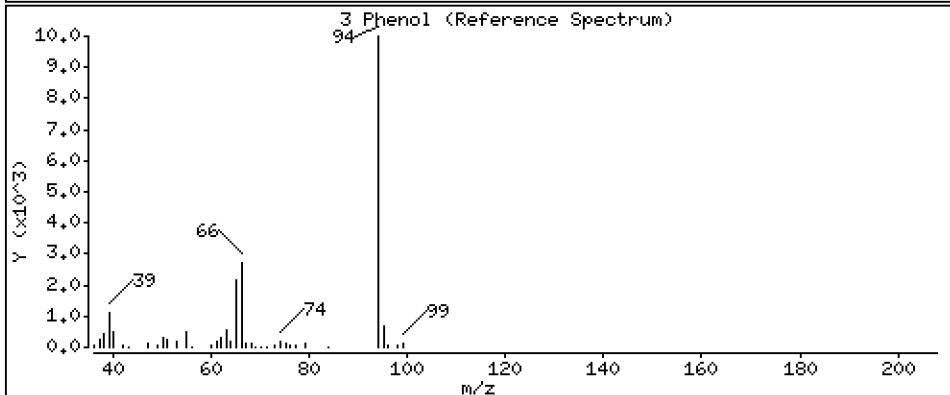
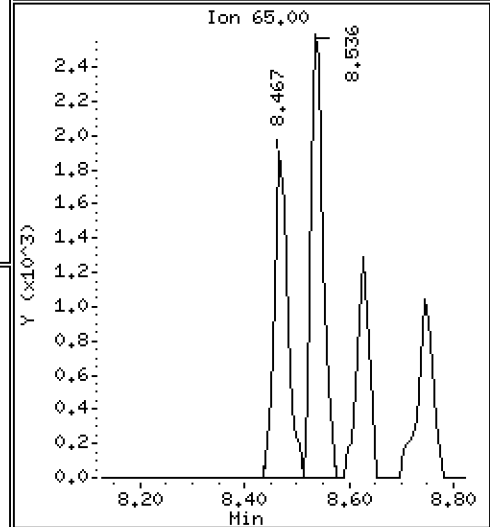
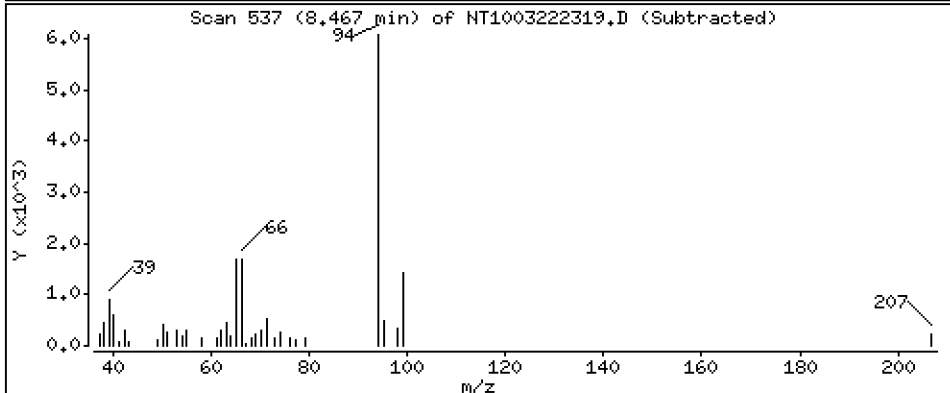
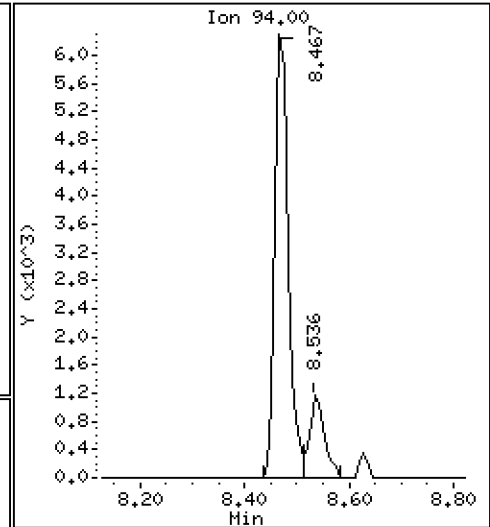
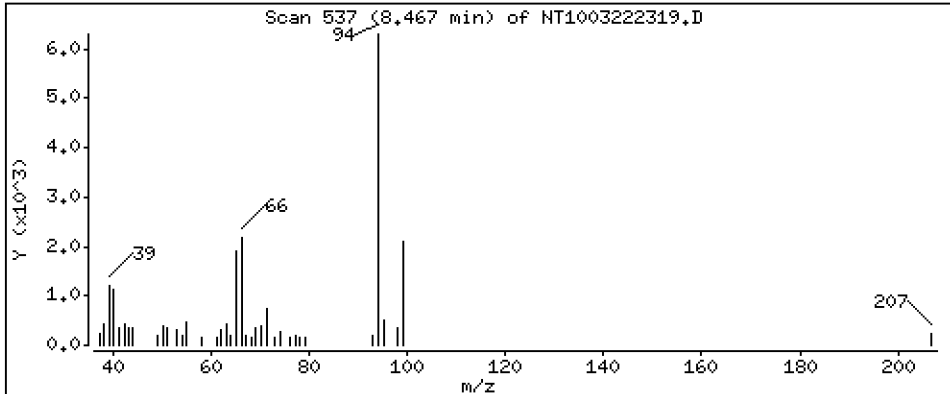
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 0.1917 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

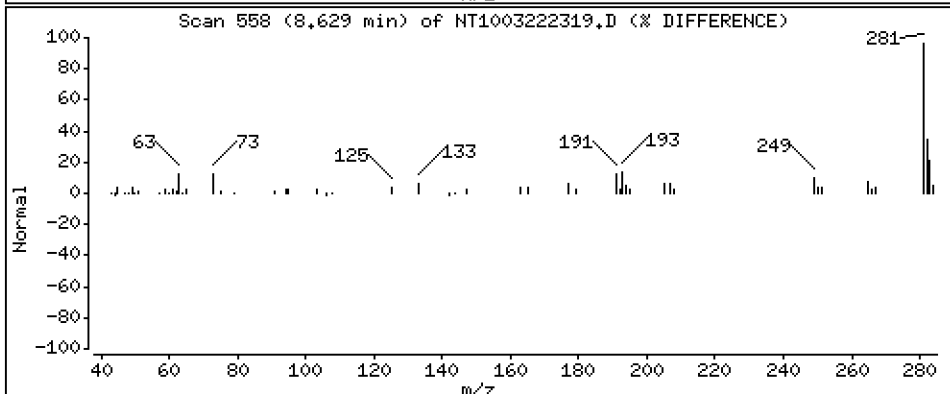
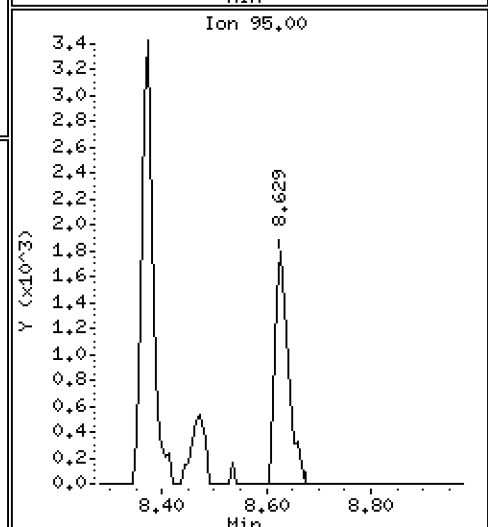
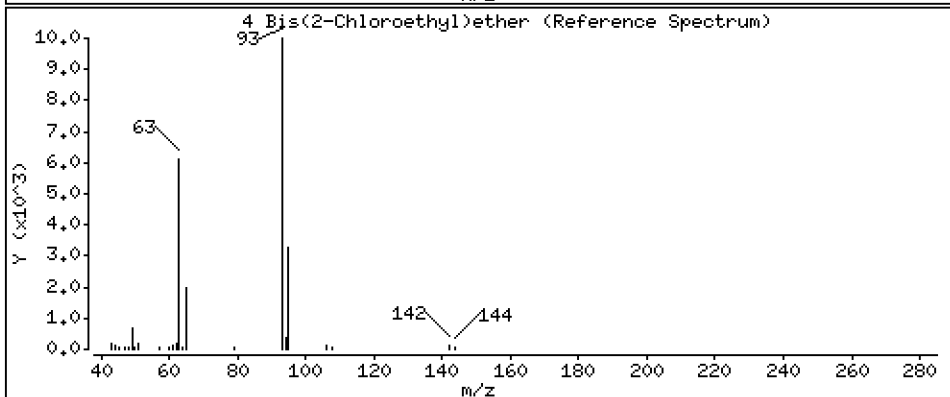
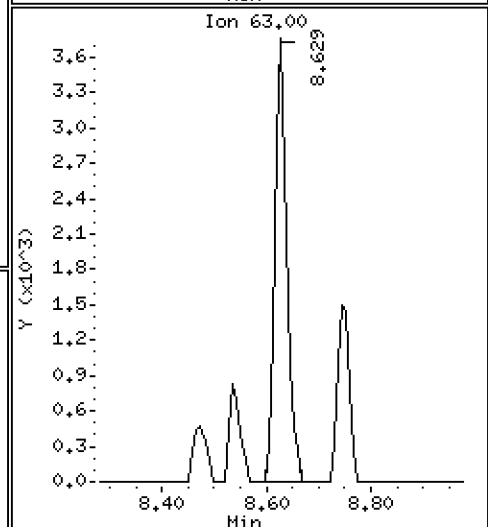
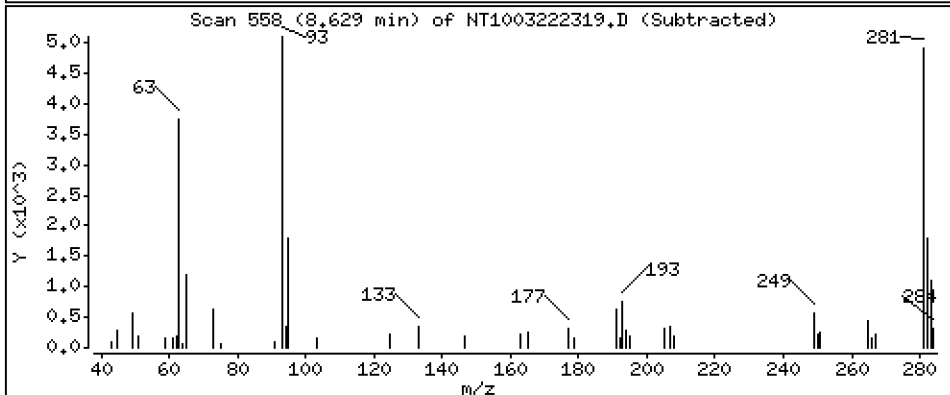
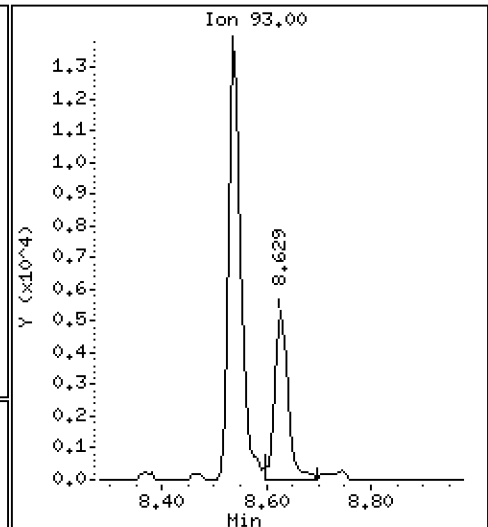
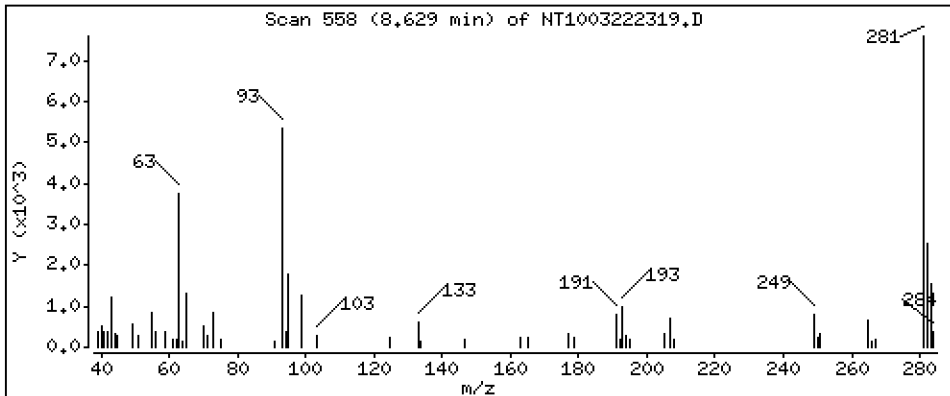
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,2169 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

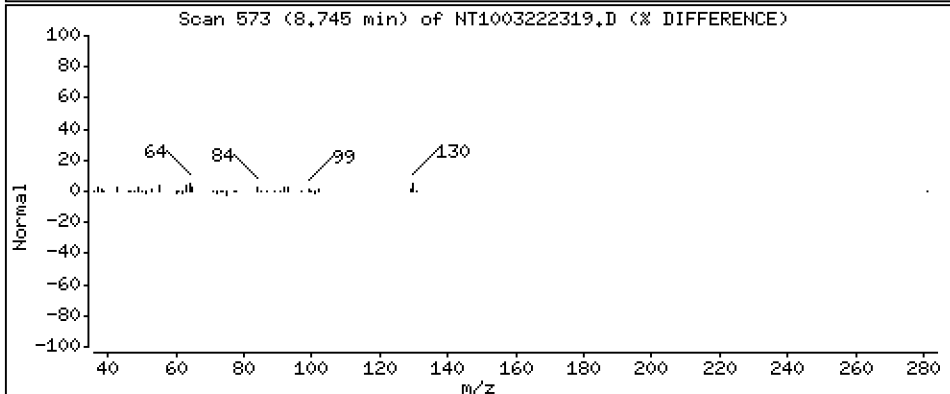
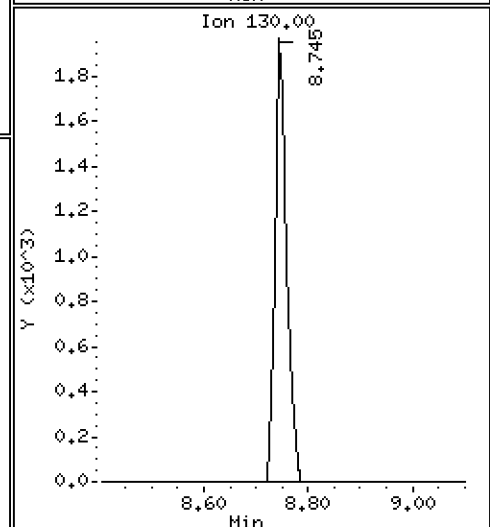
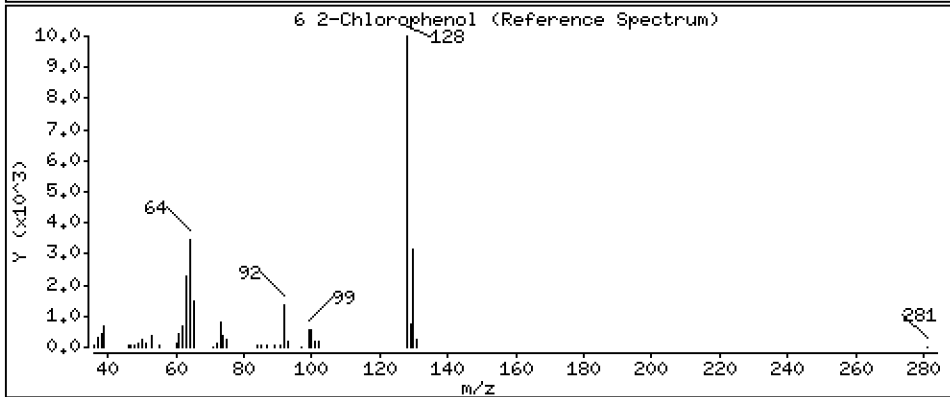
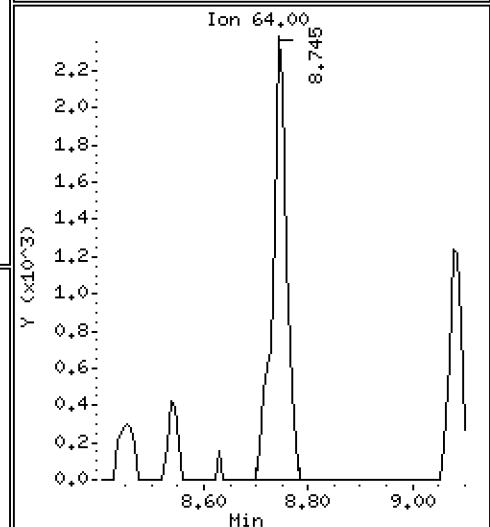
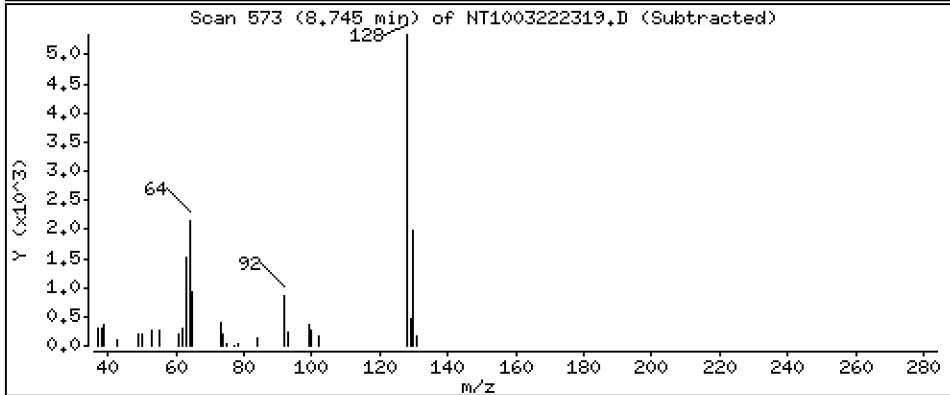
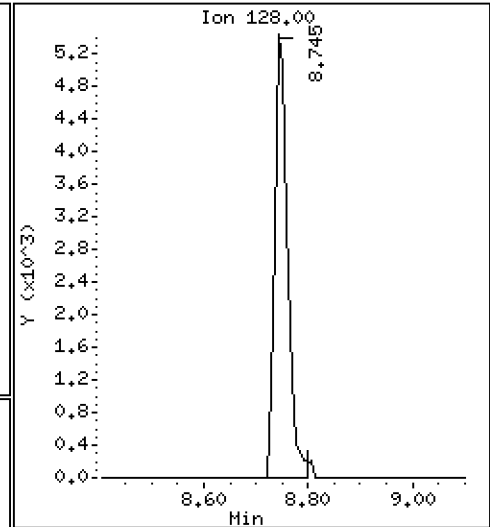
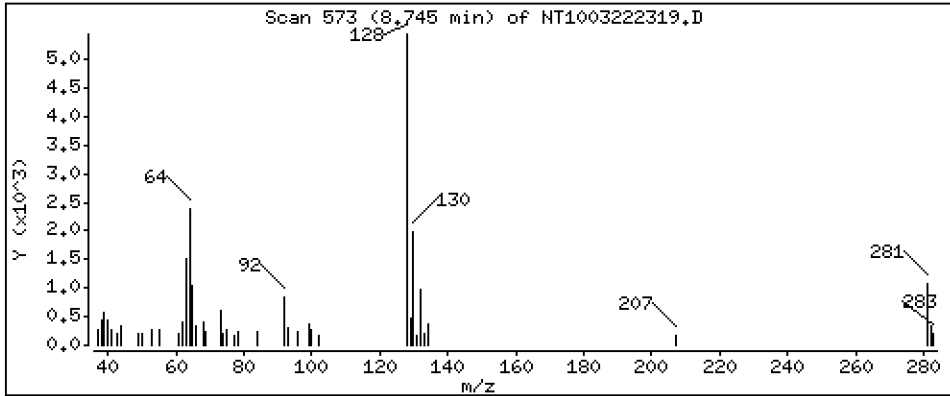
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,1931 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

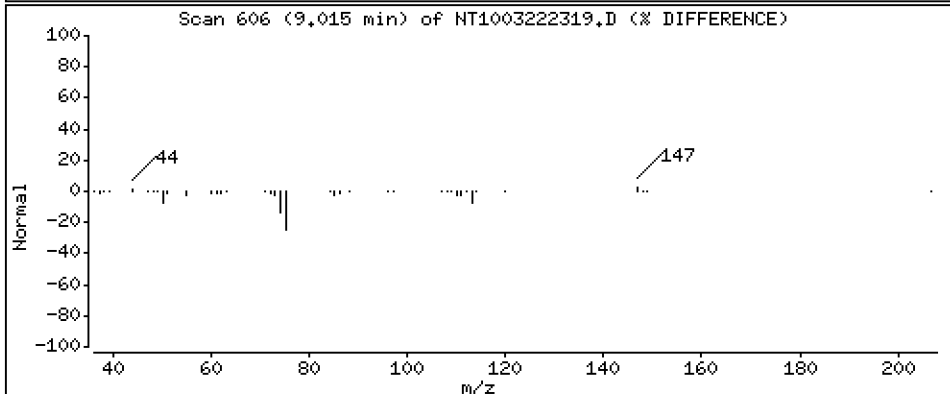
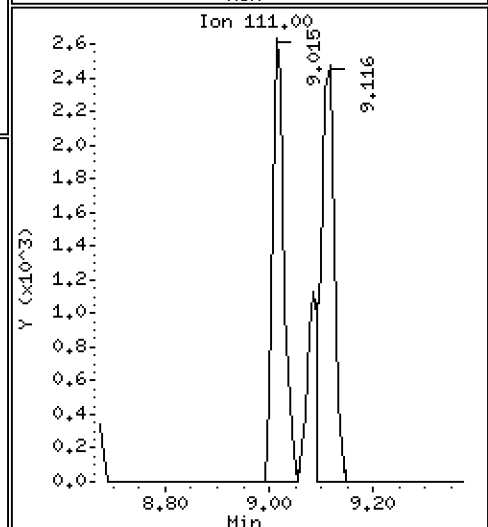
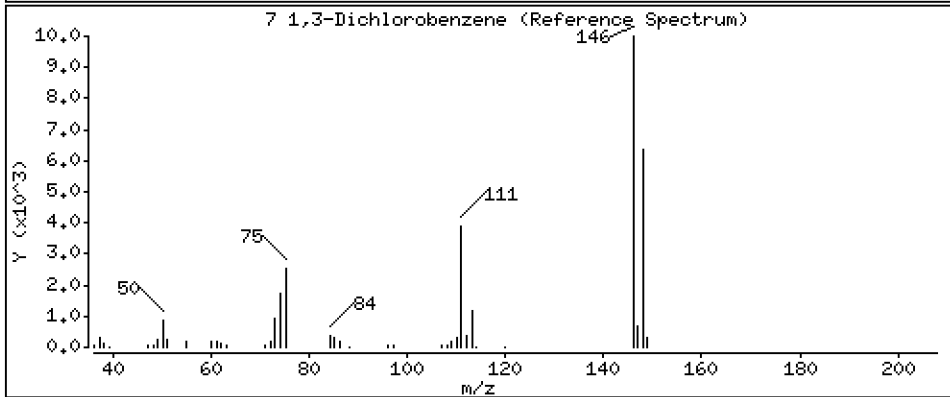
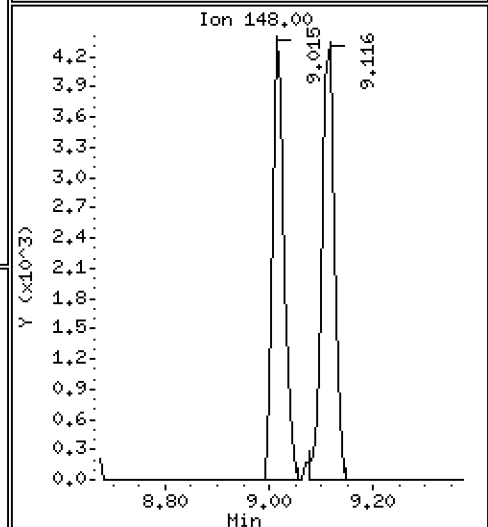
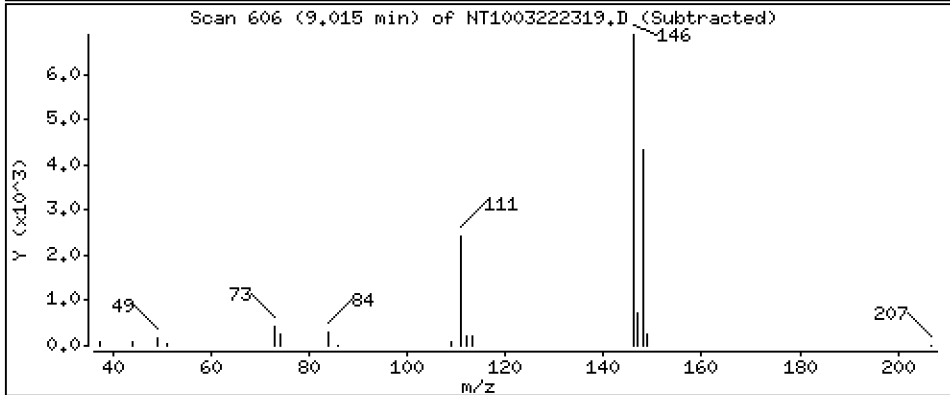
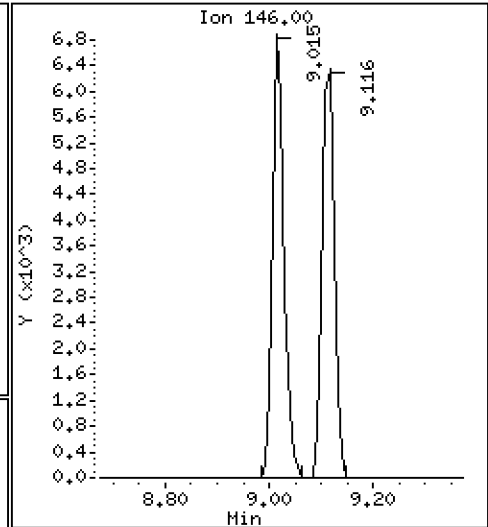
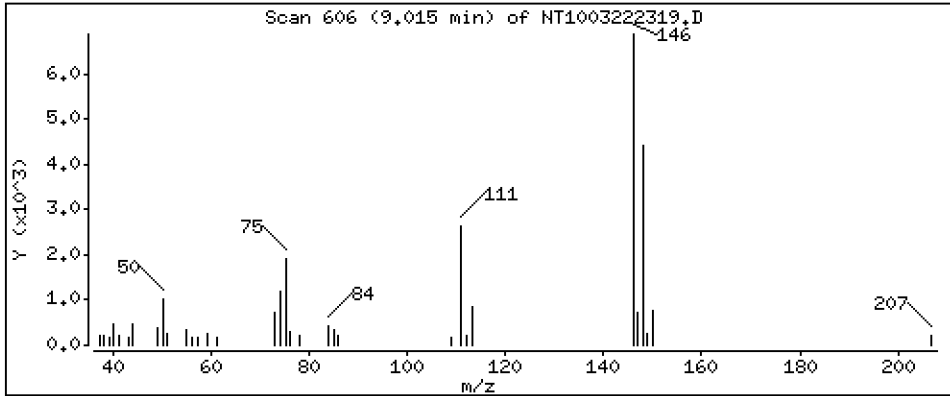
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.2084 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

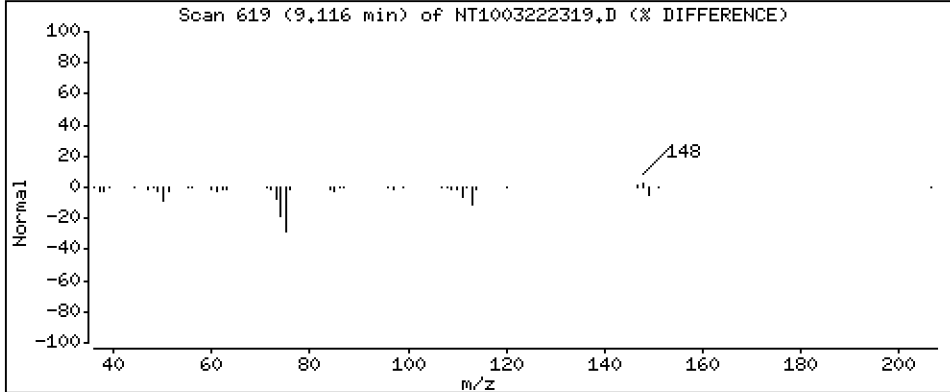
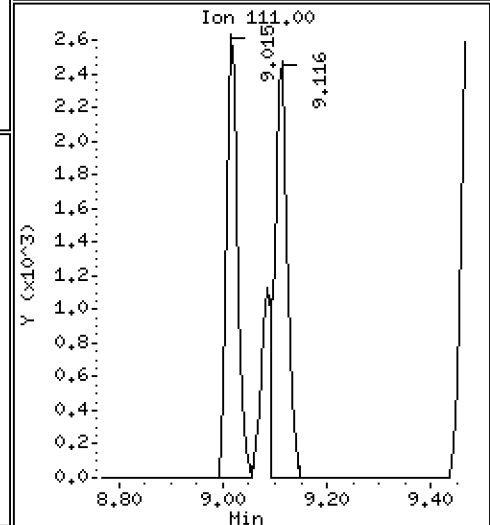
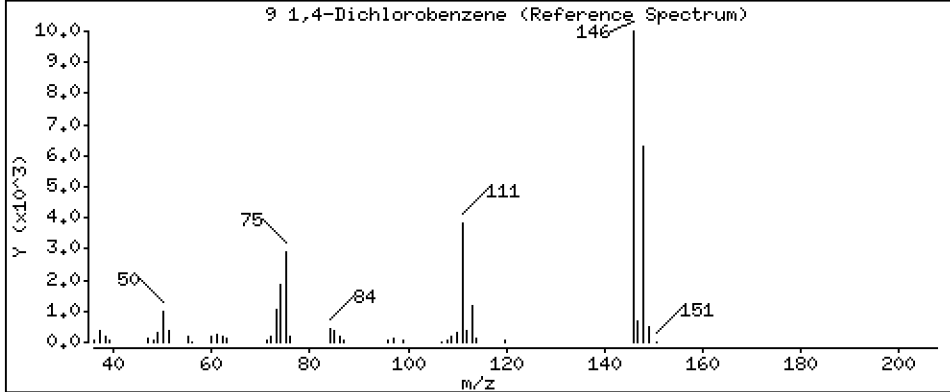
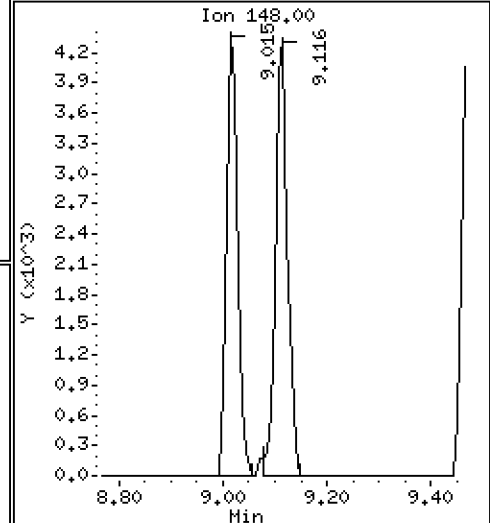
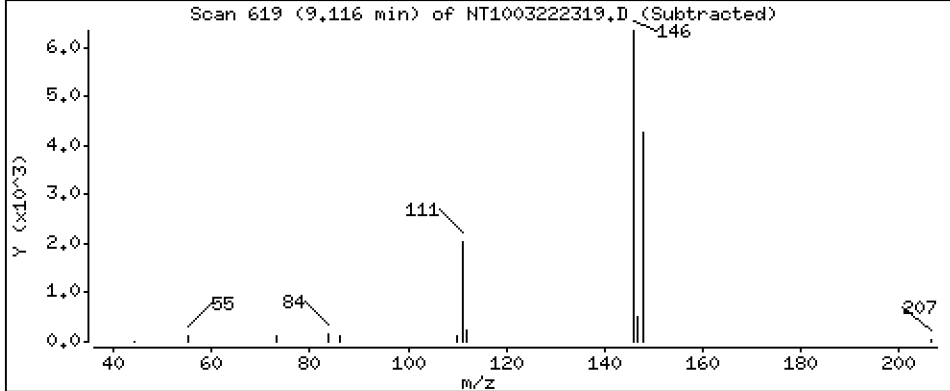
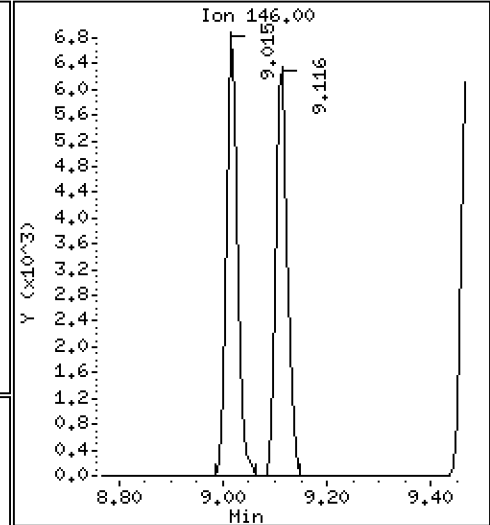
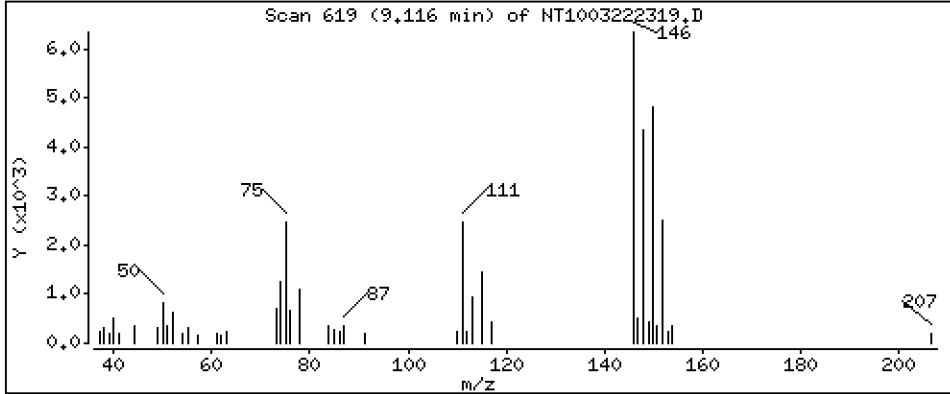
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,1999 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

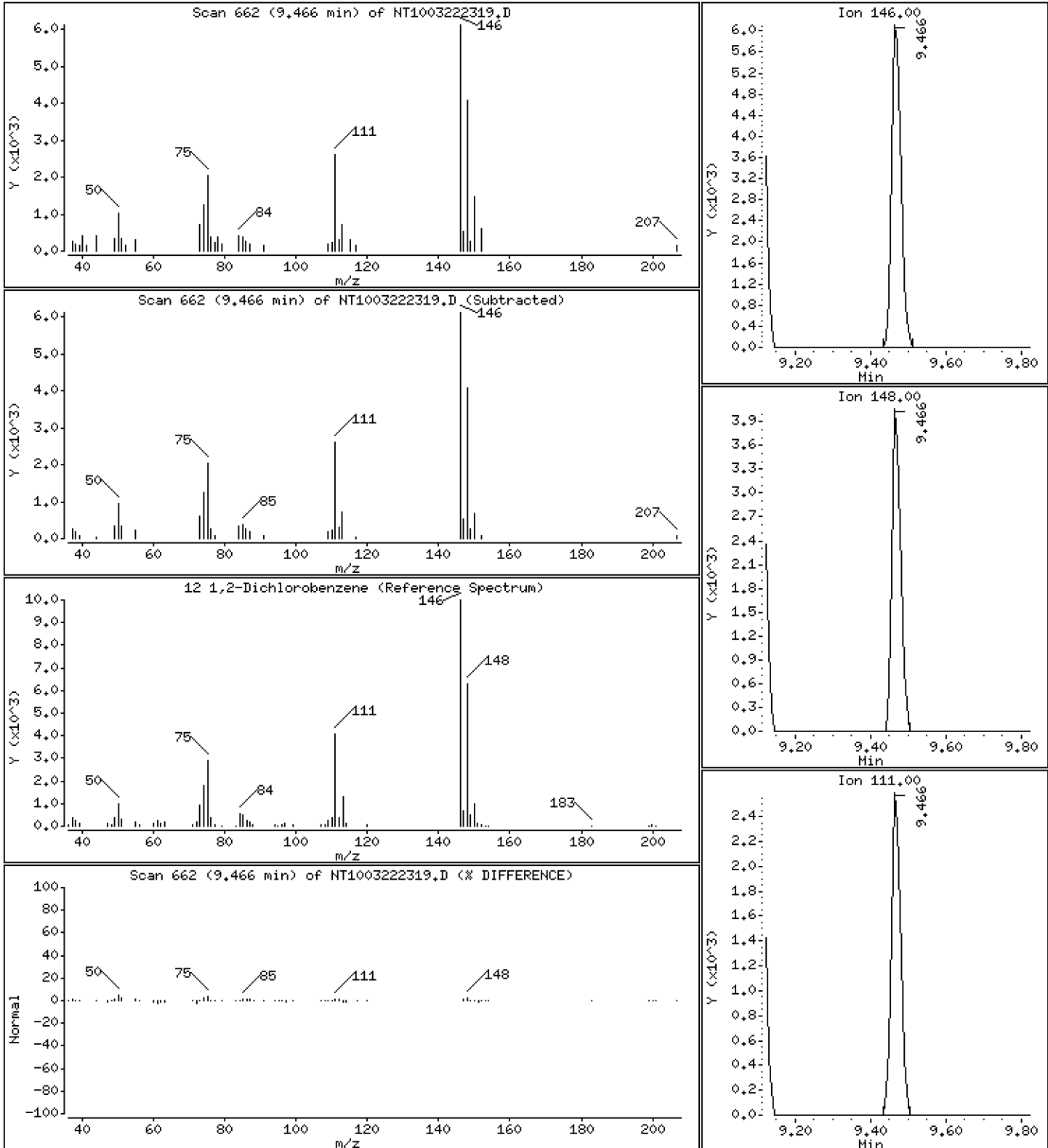
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 0.2087 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

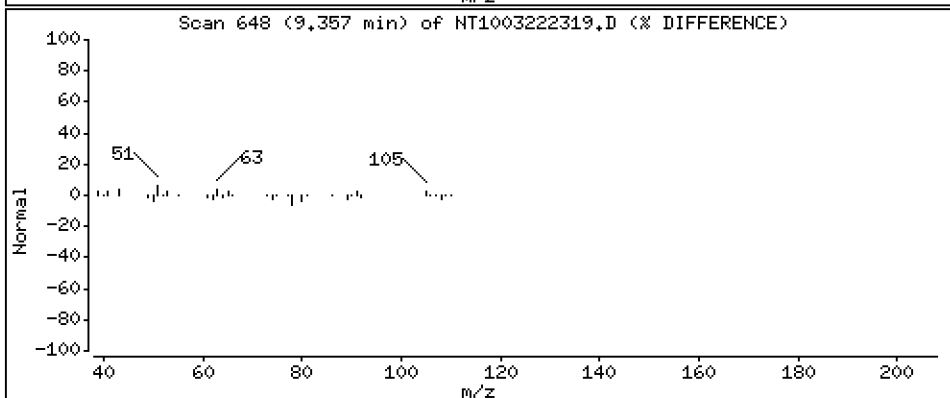
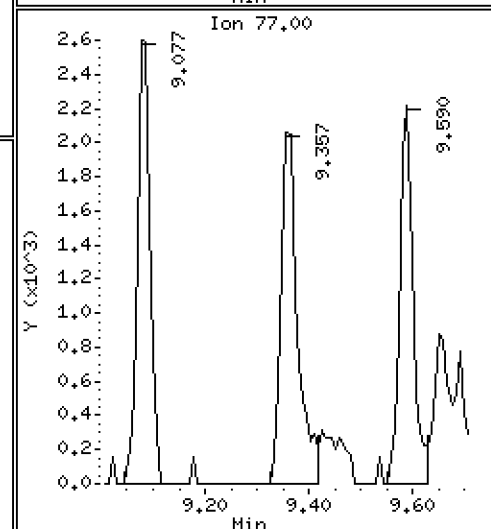
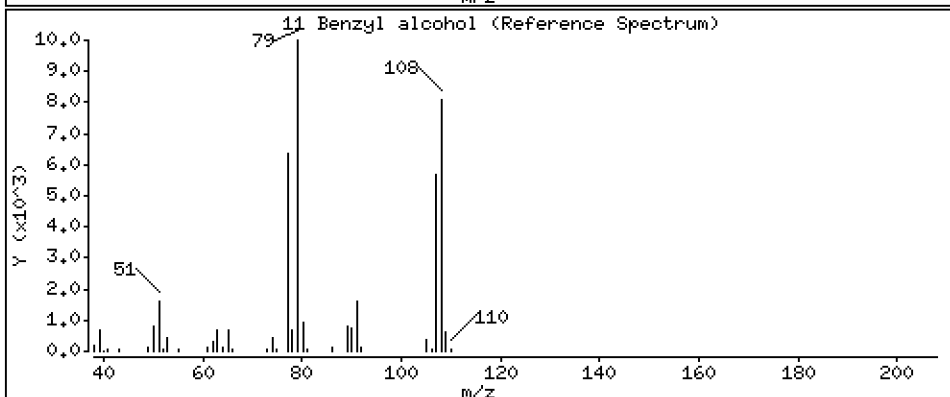
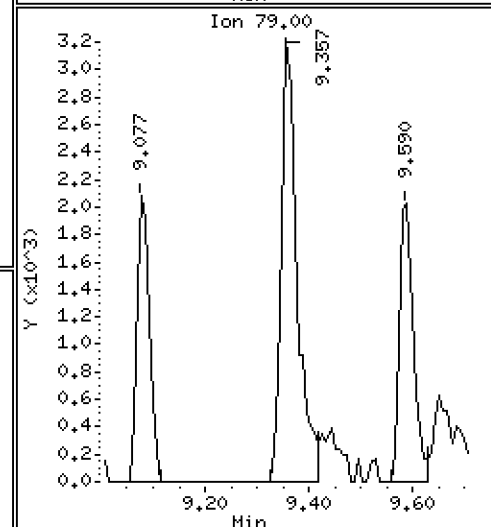
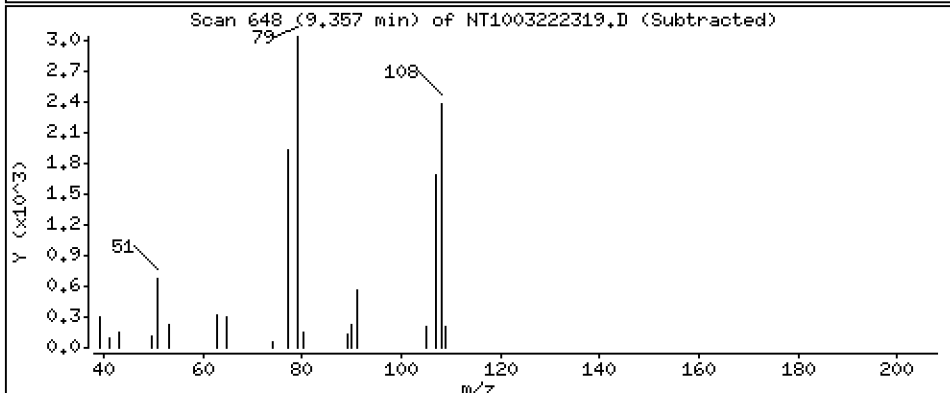
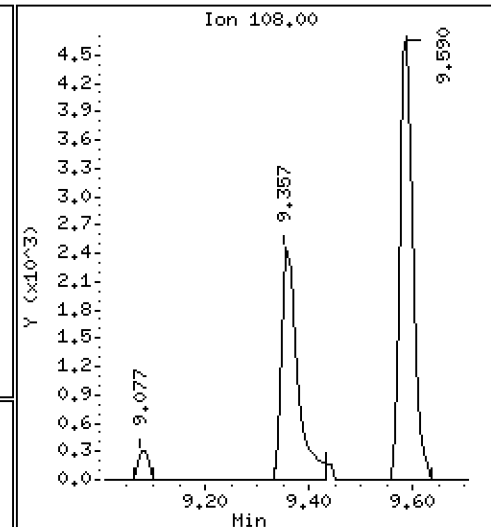
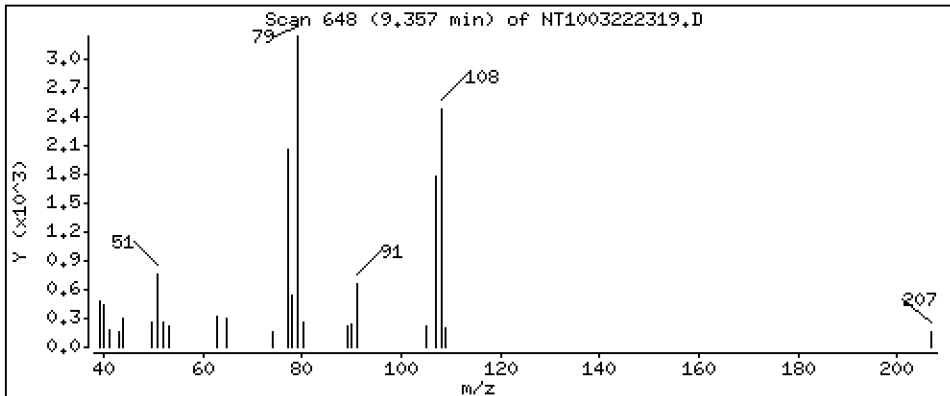
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1930 ug/mL





Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

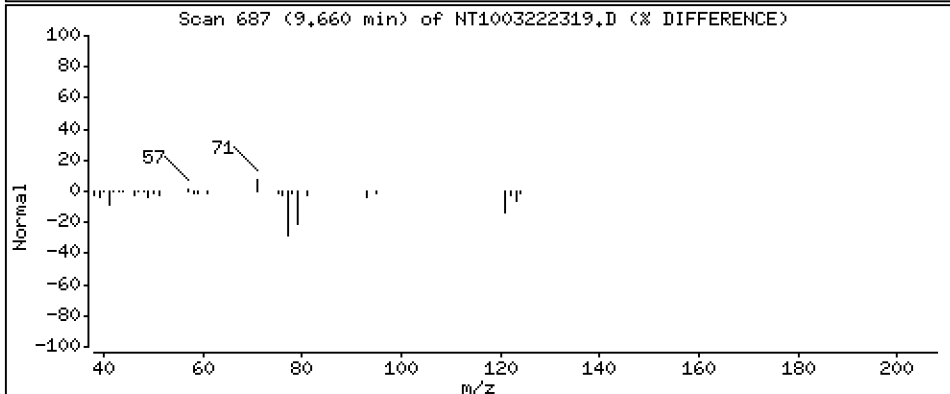
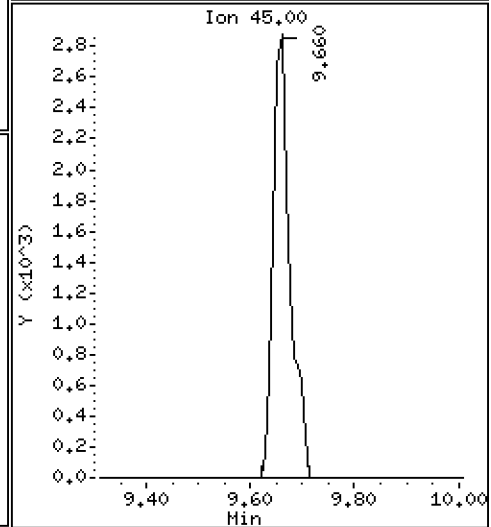
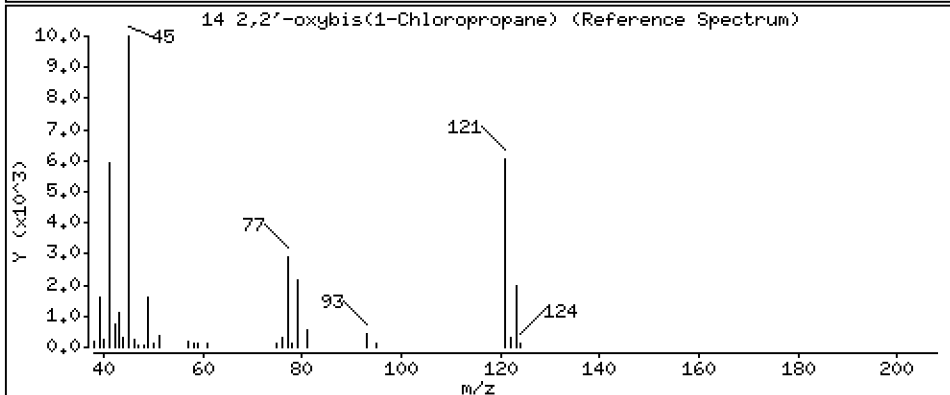
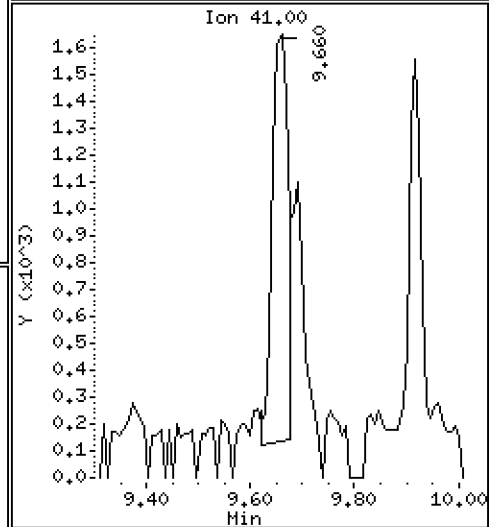
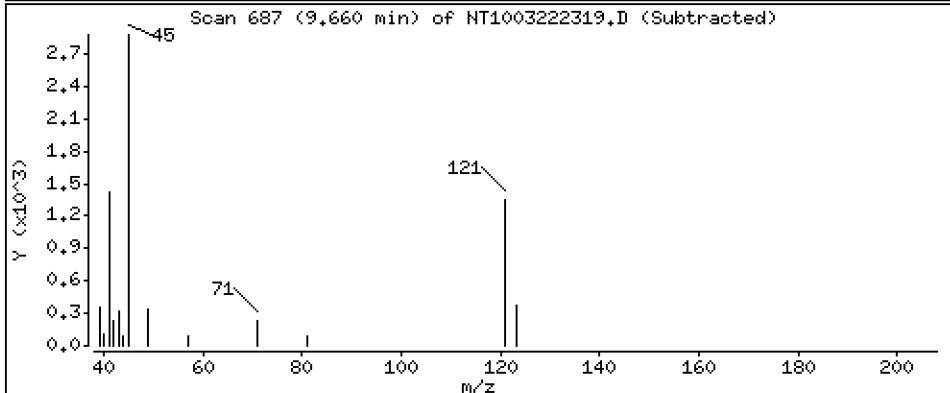
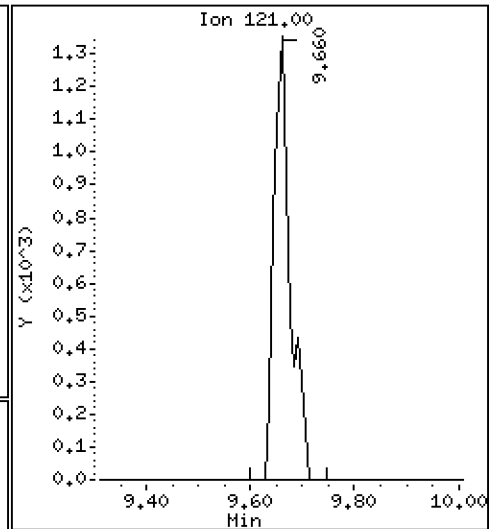
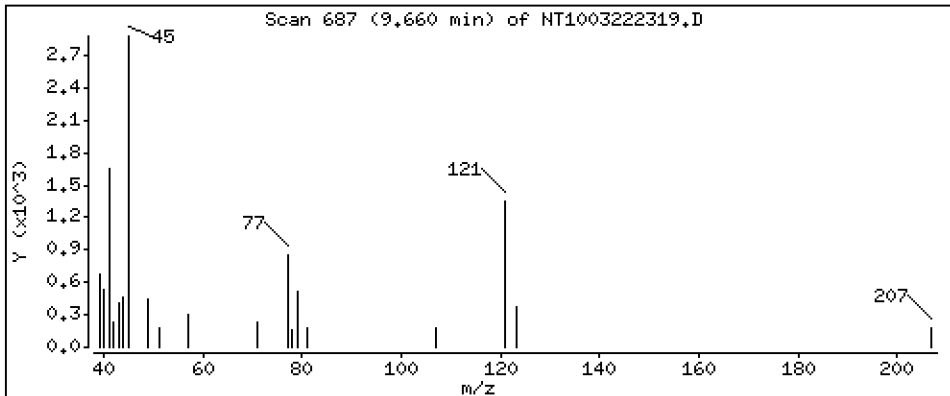
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 0.2002 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

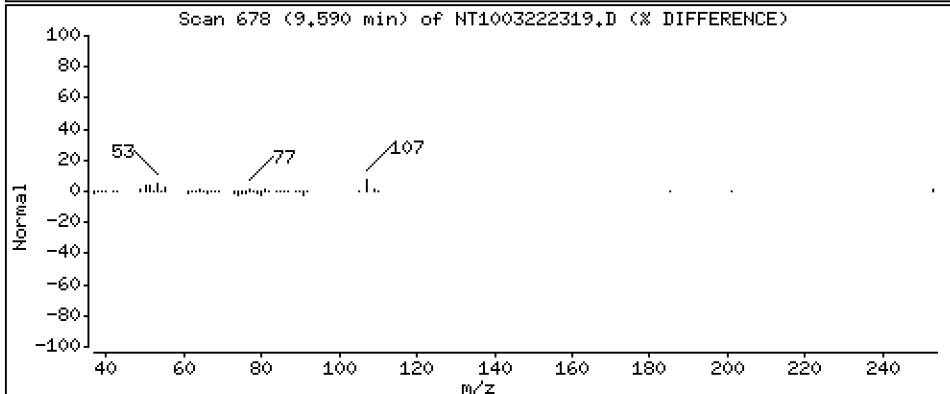
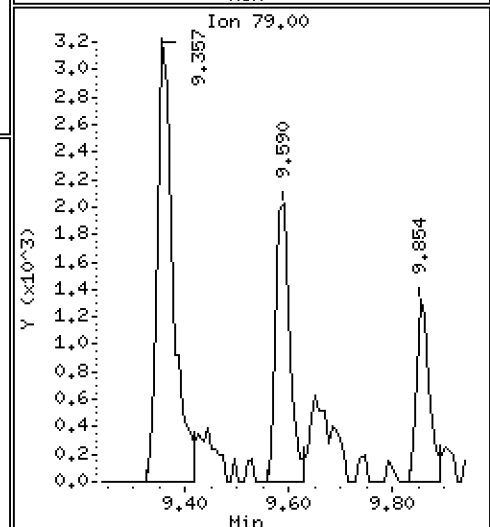
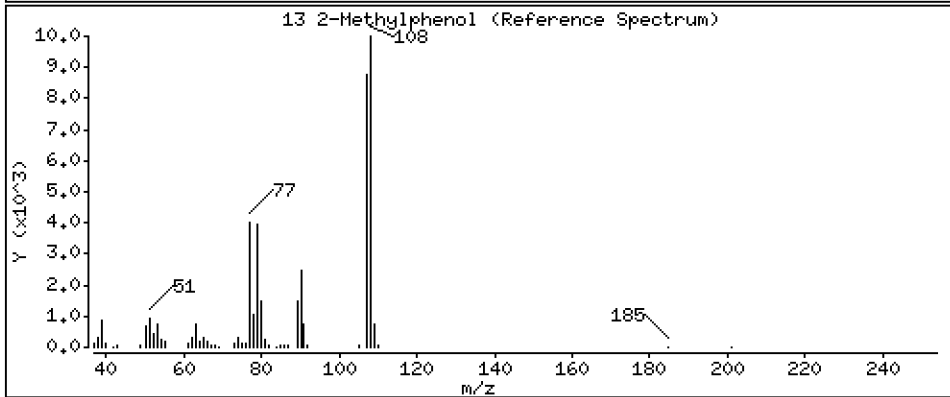
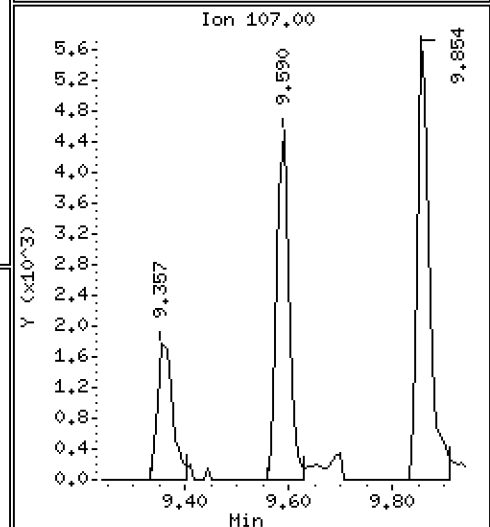
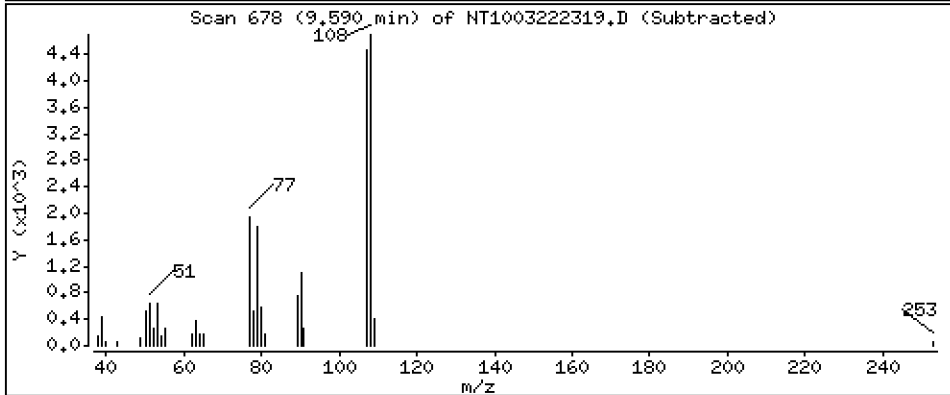
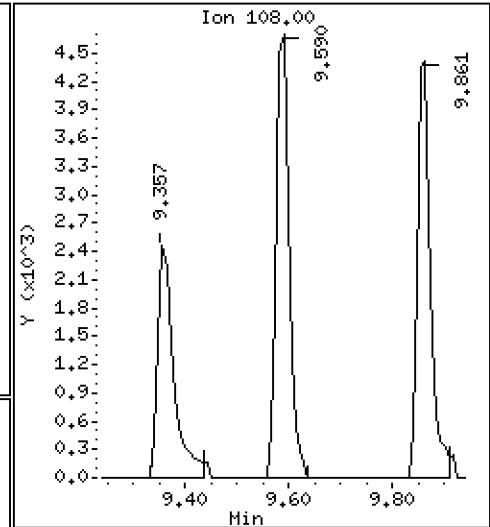
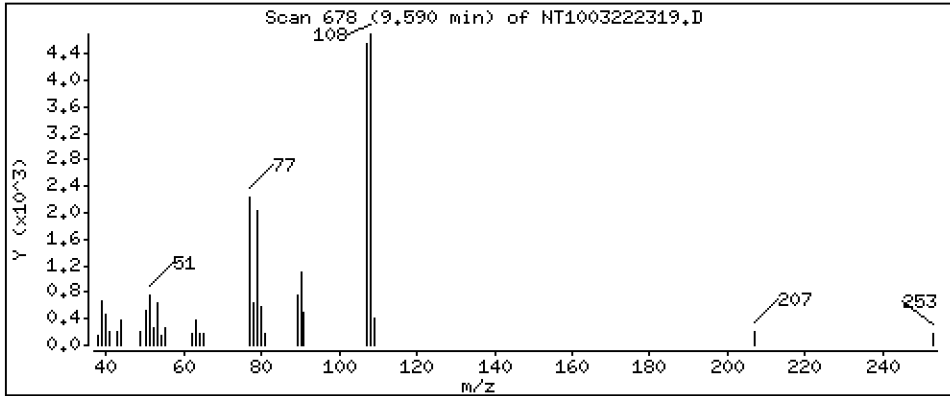
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.1886 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

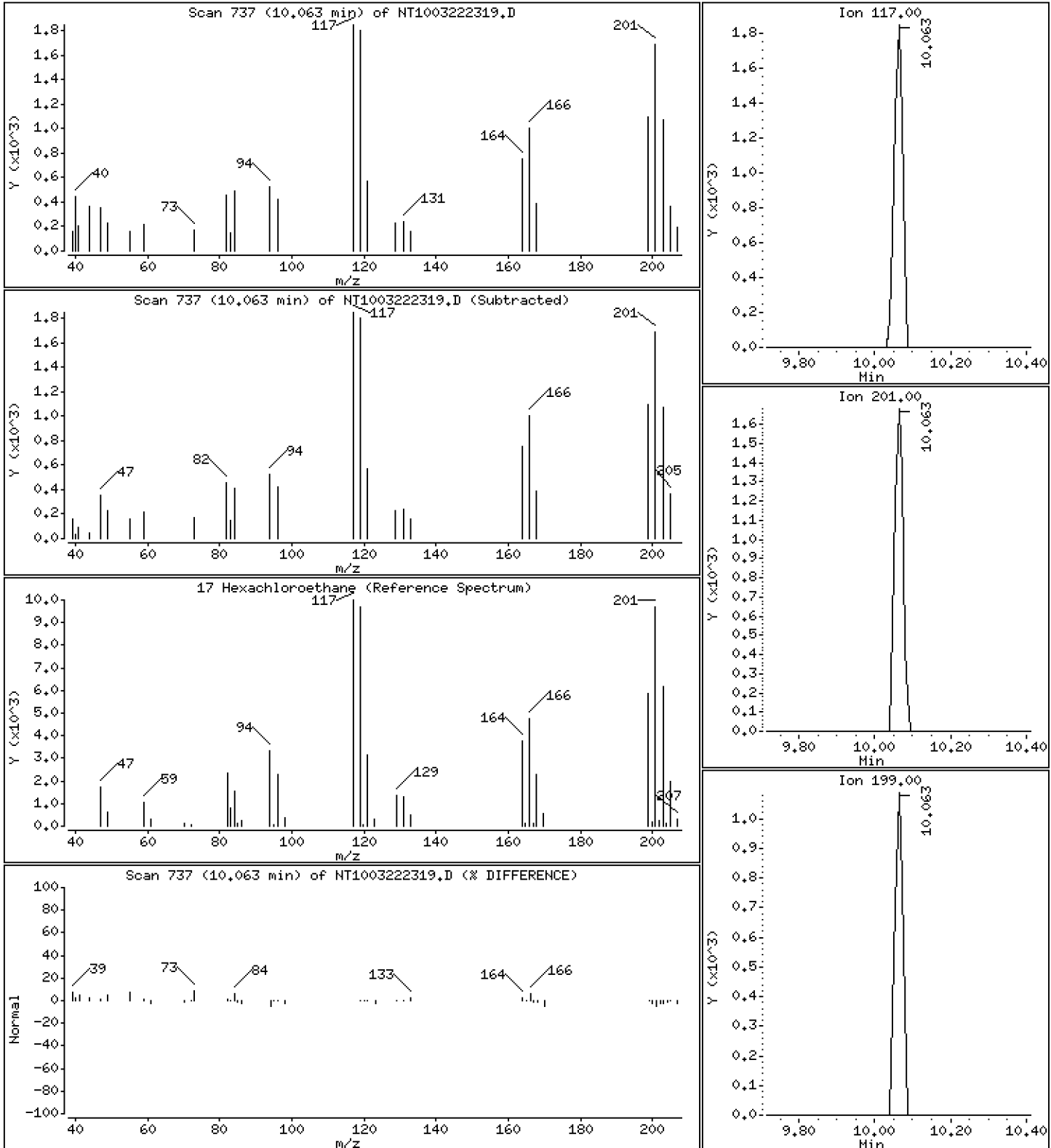
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 0.1339 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

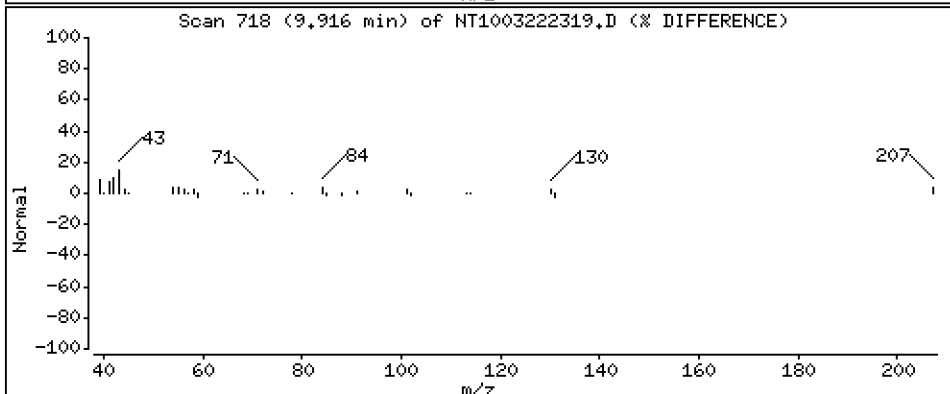
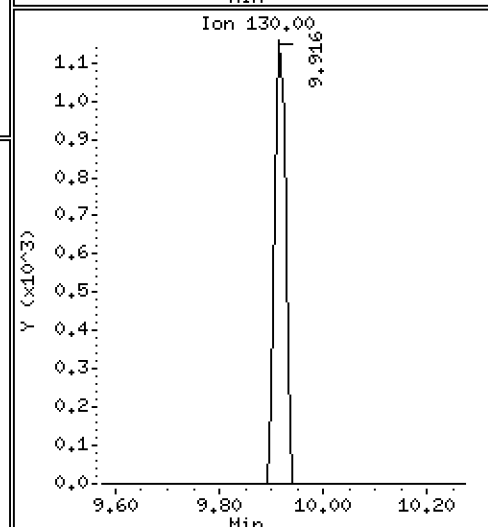
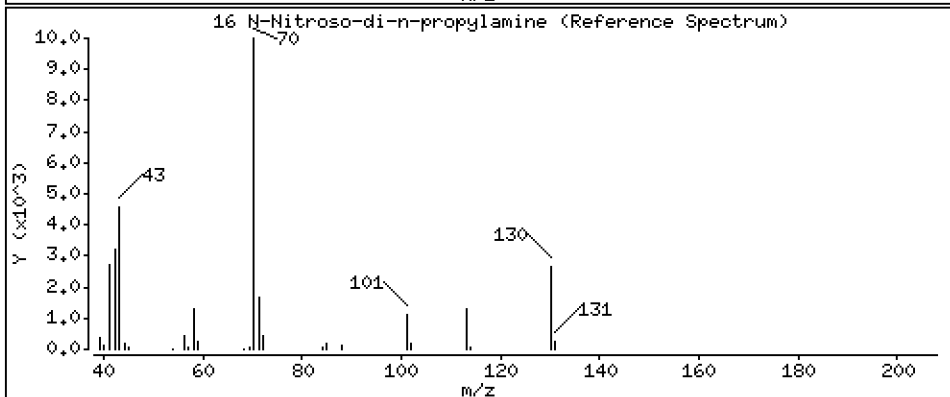
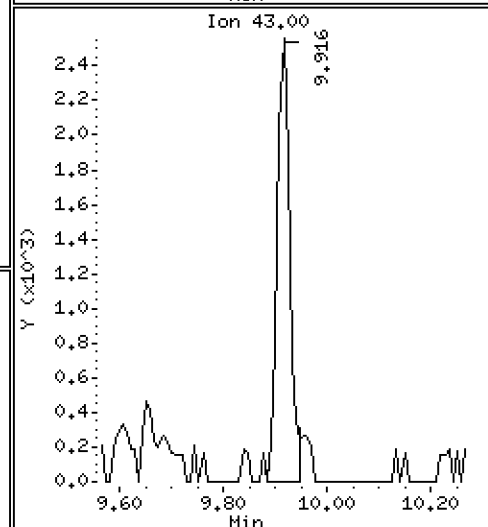
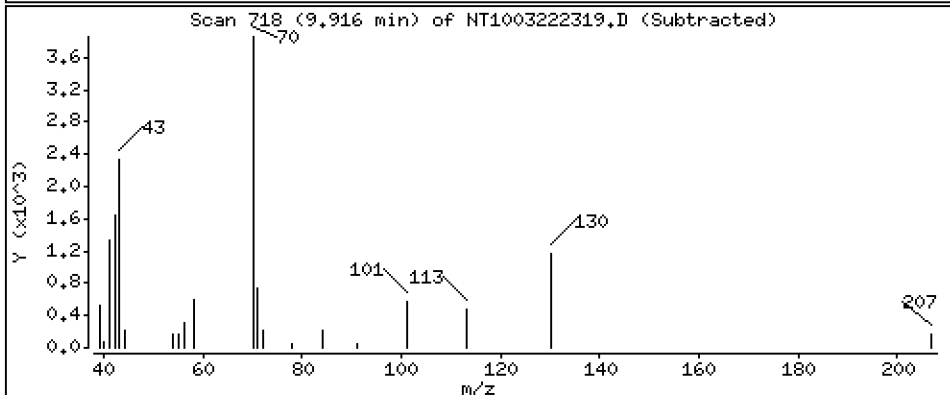
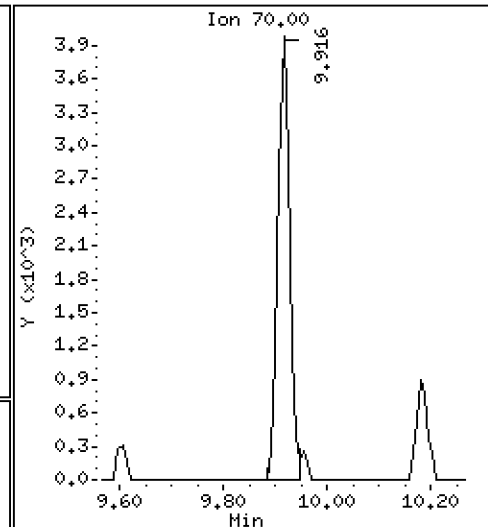
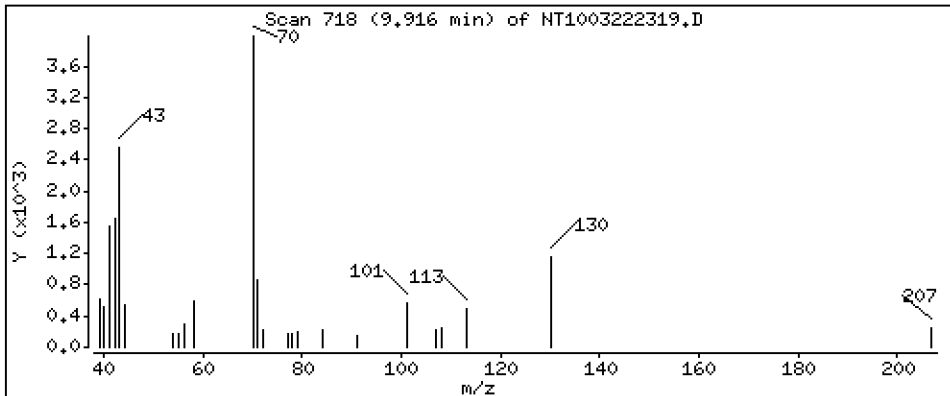
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,1829 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

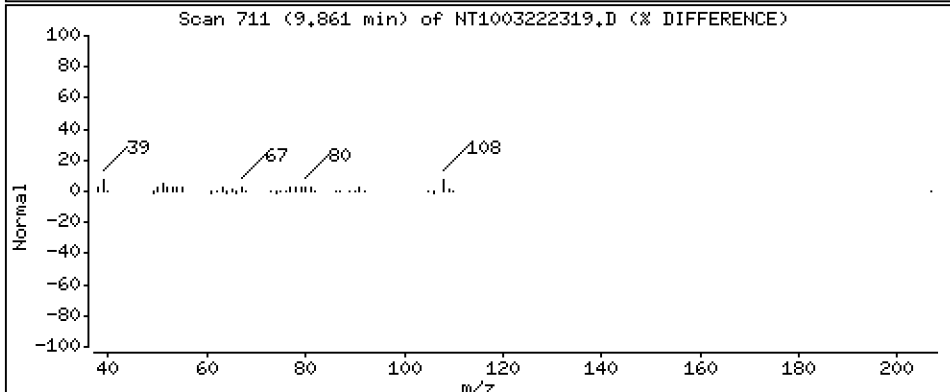
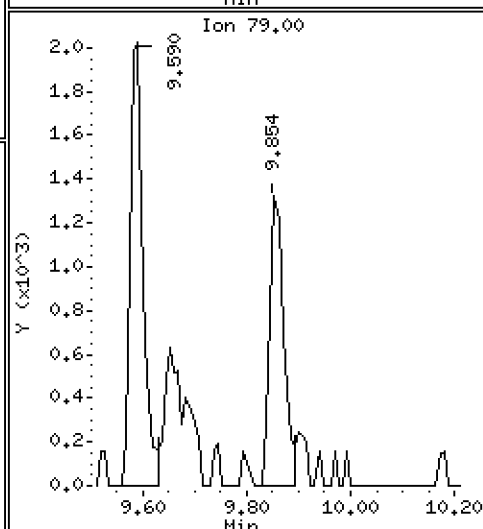
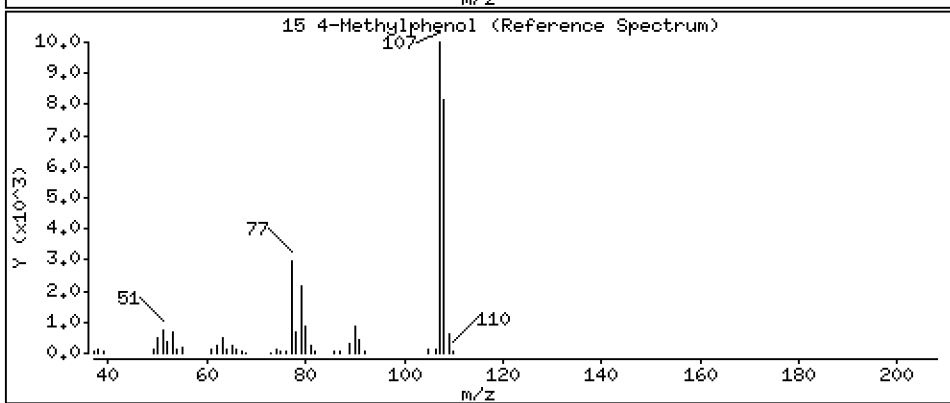
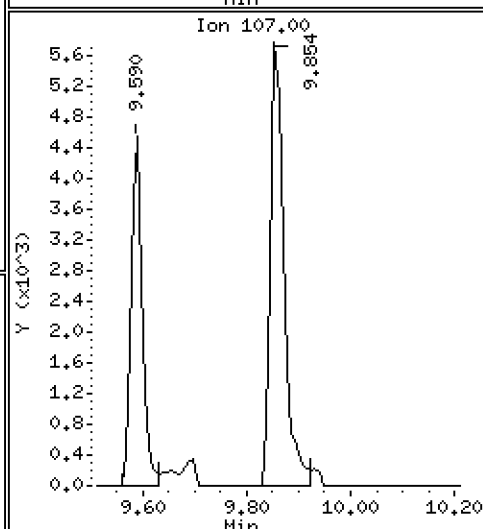
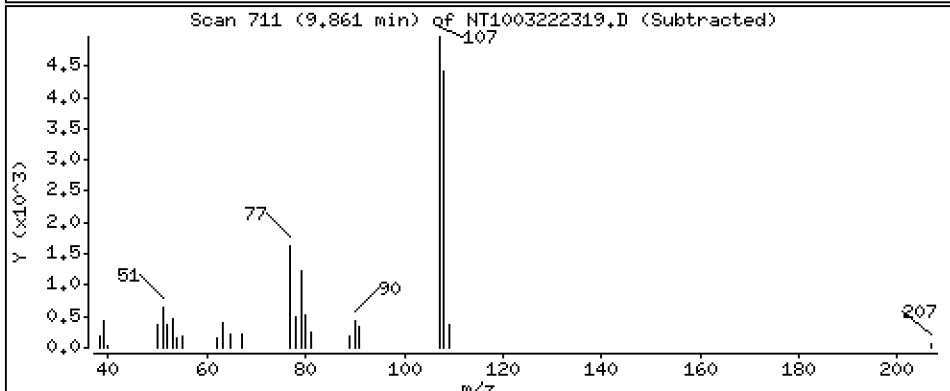
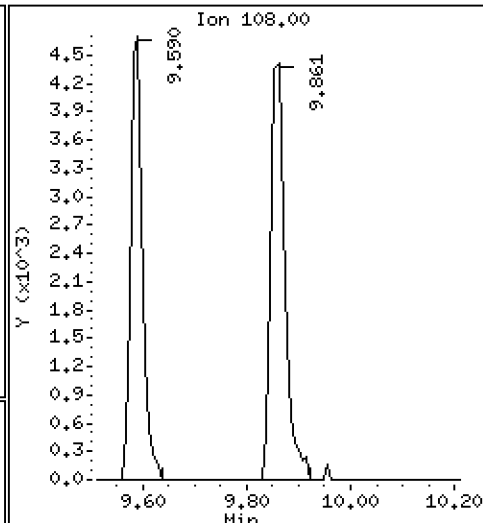
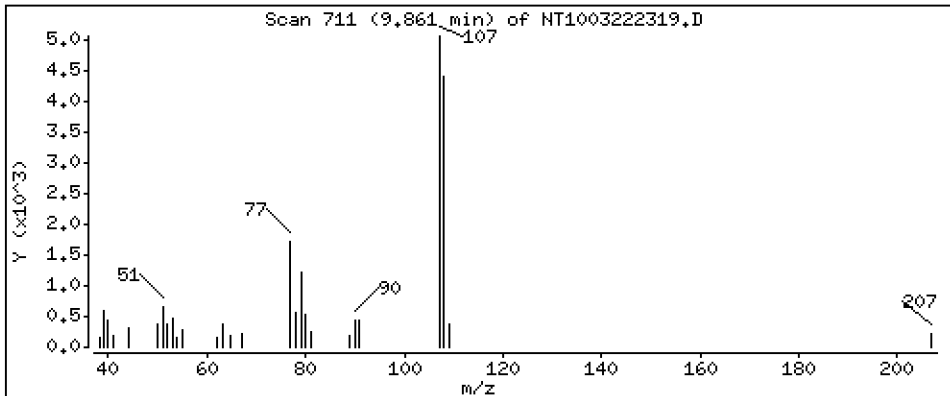
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,1877 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

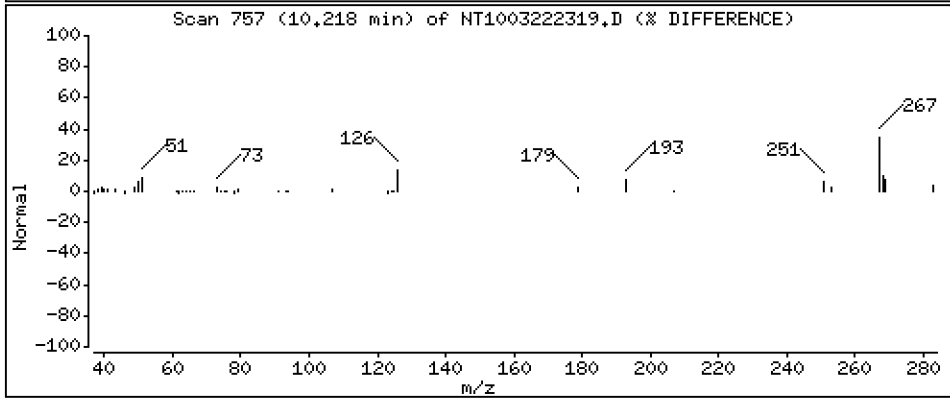
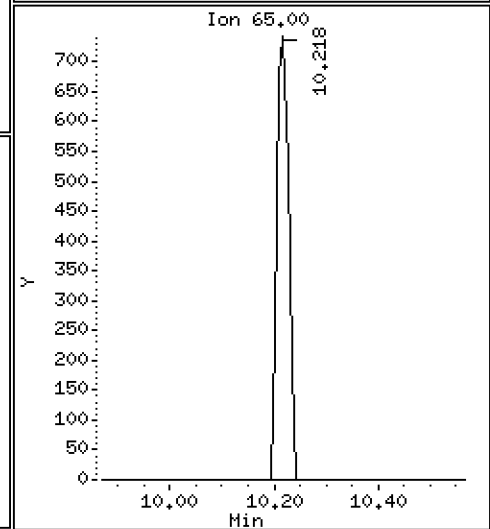
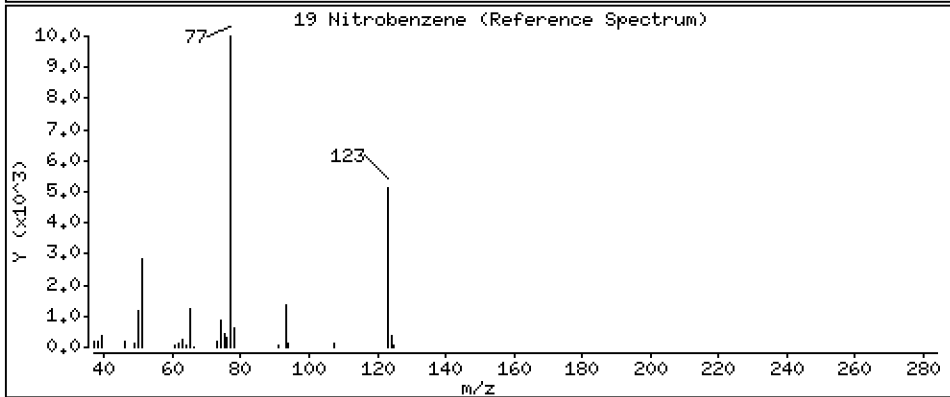
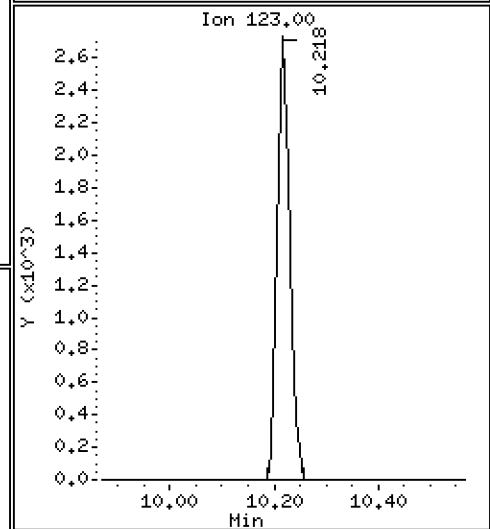
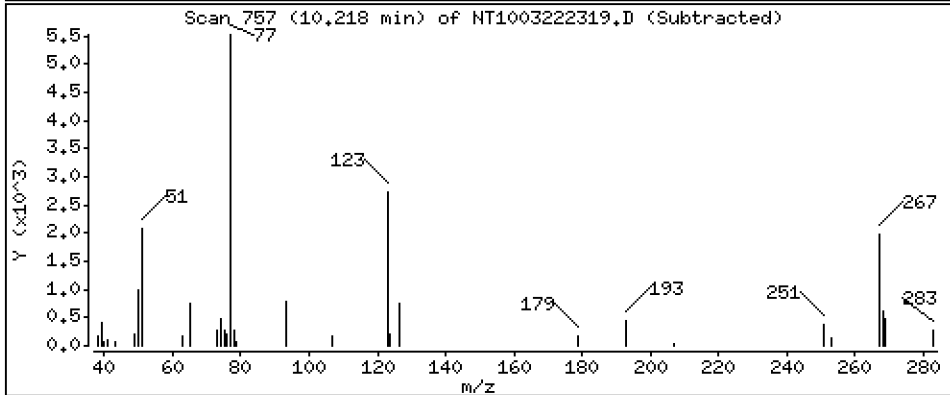
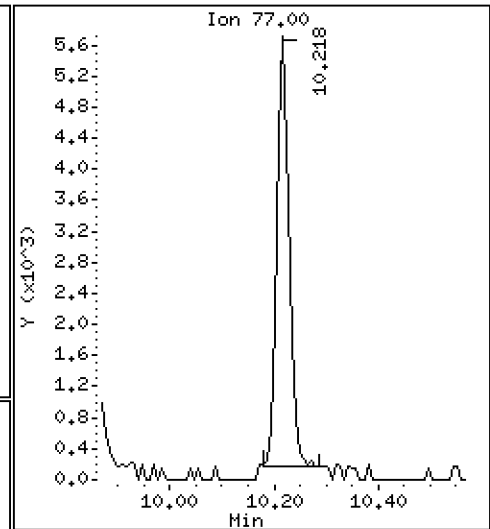
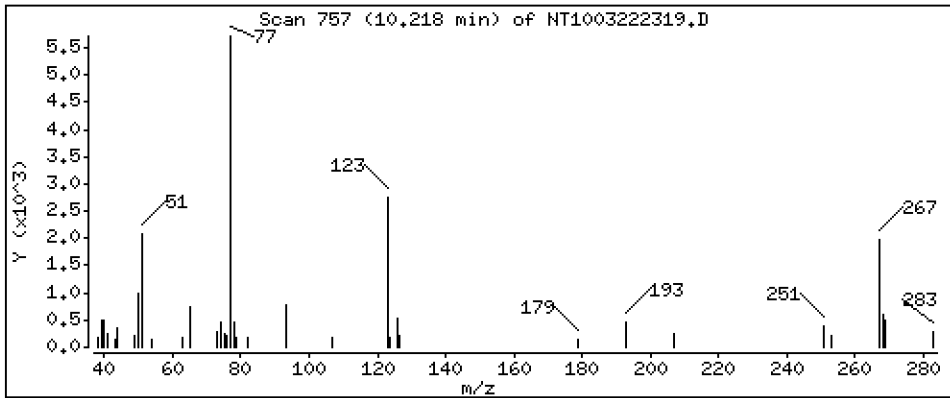
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,1801 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

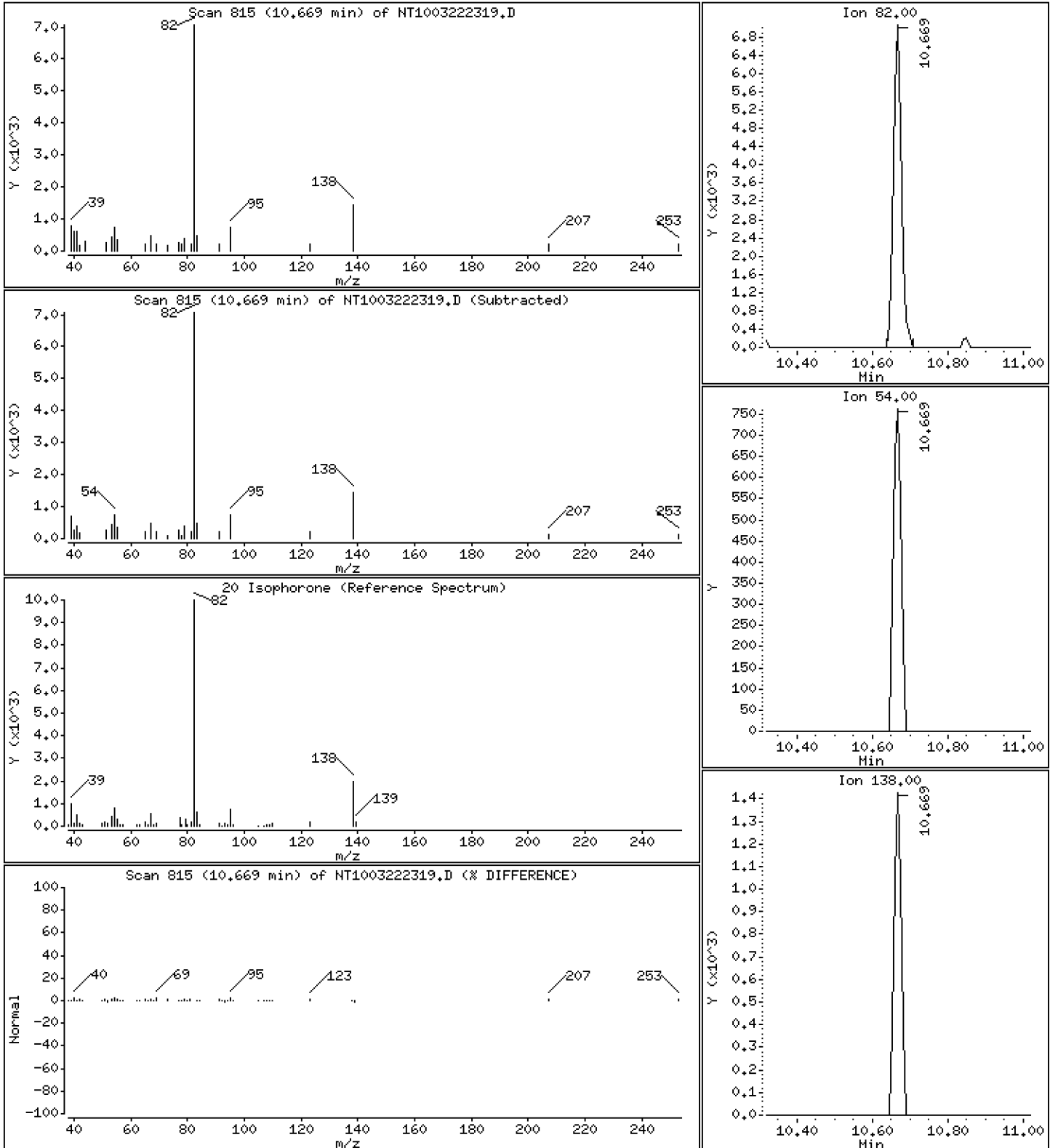
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.1780 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

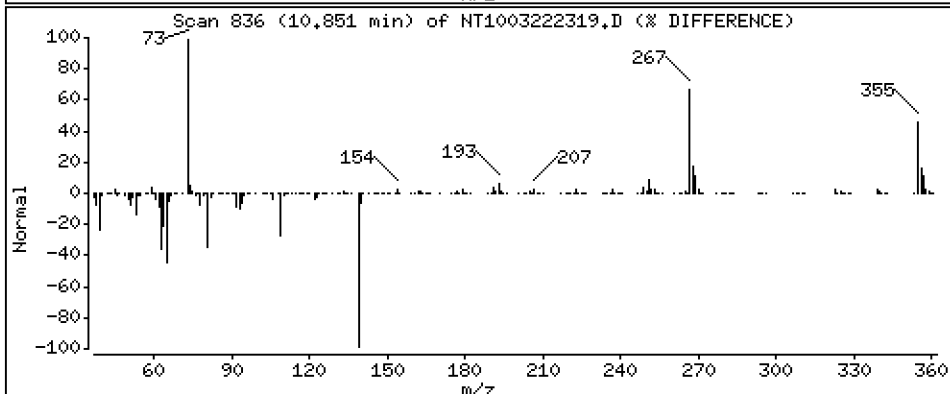
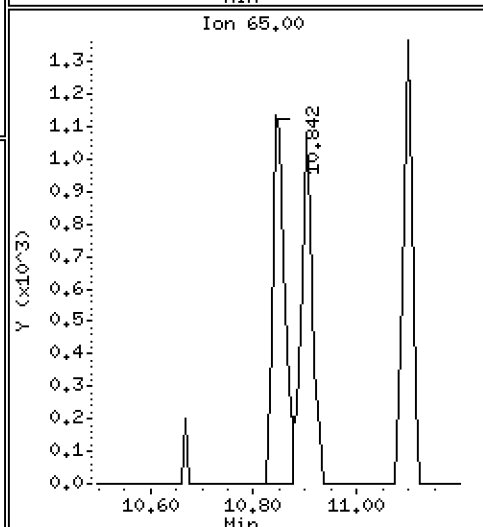
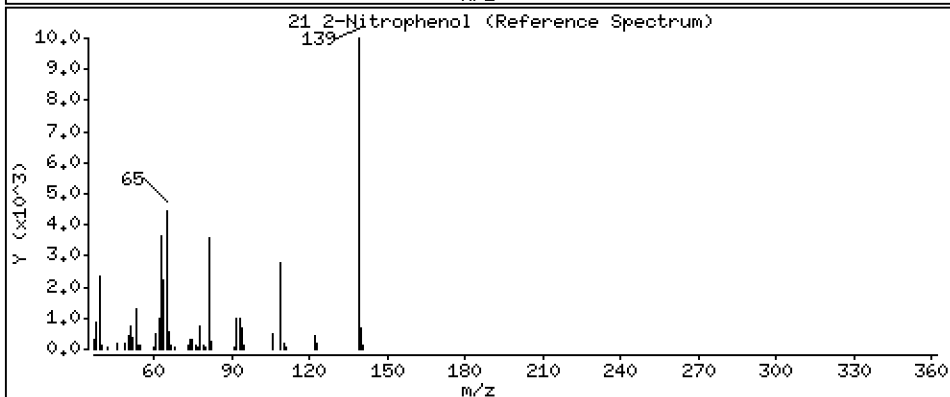
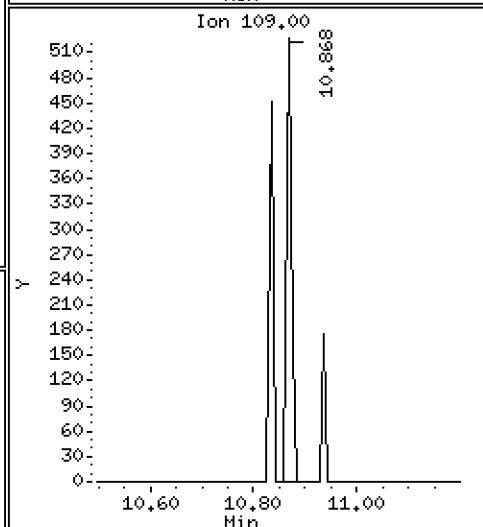
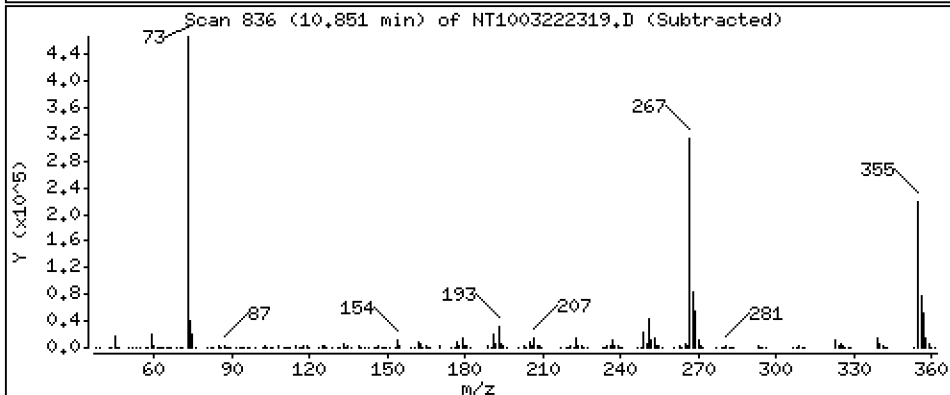
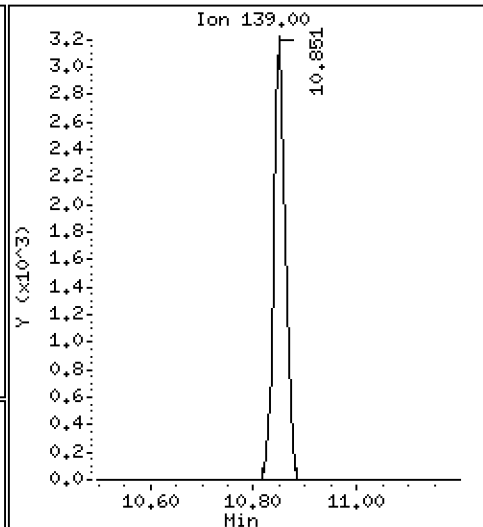
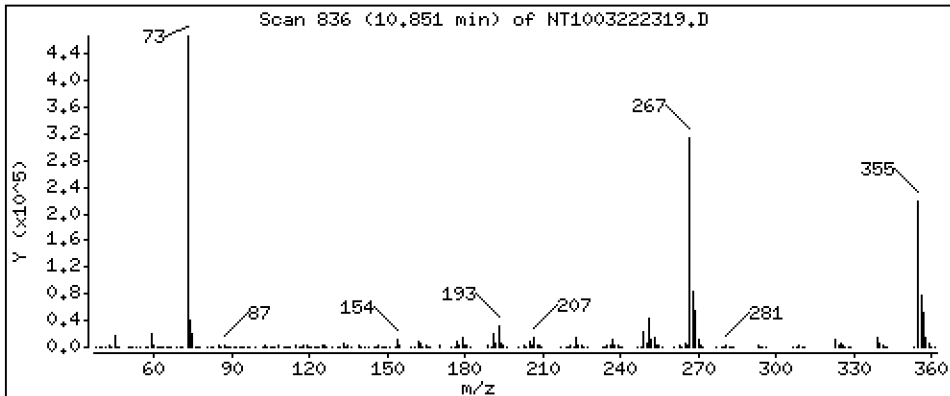
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,2258 ug/mL





Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

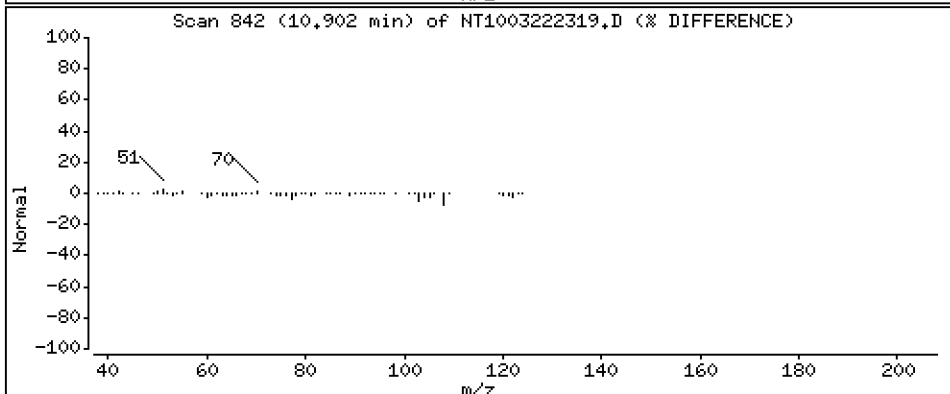
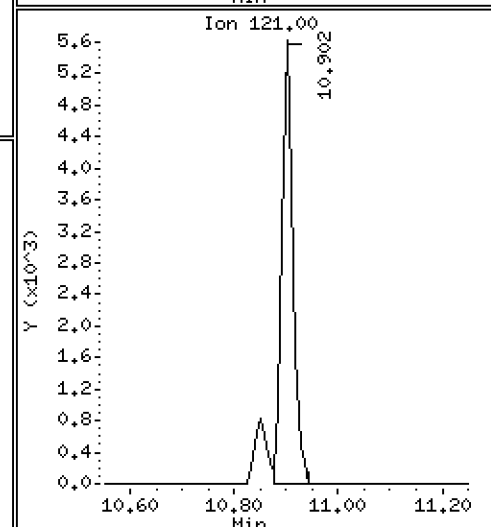
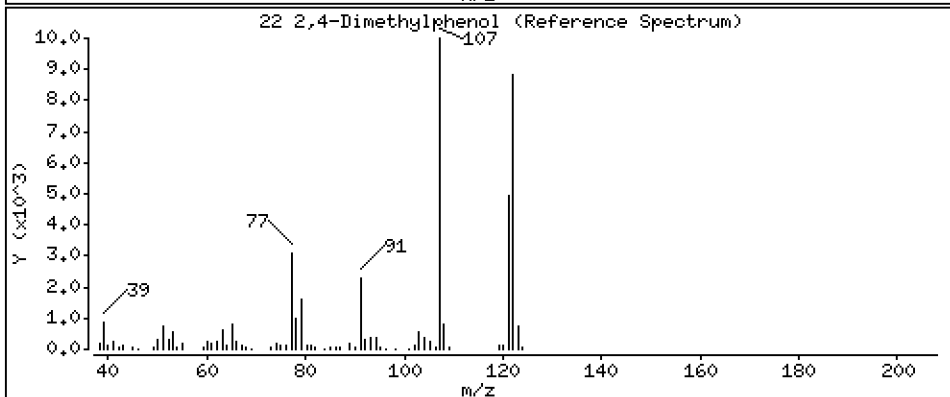
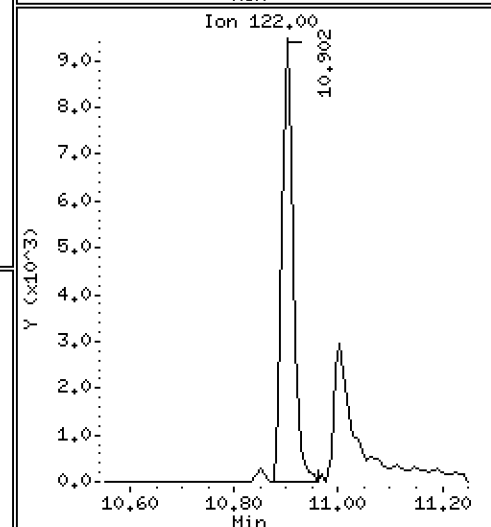
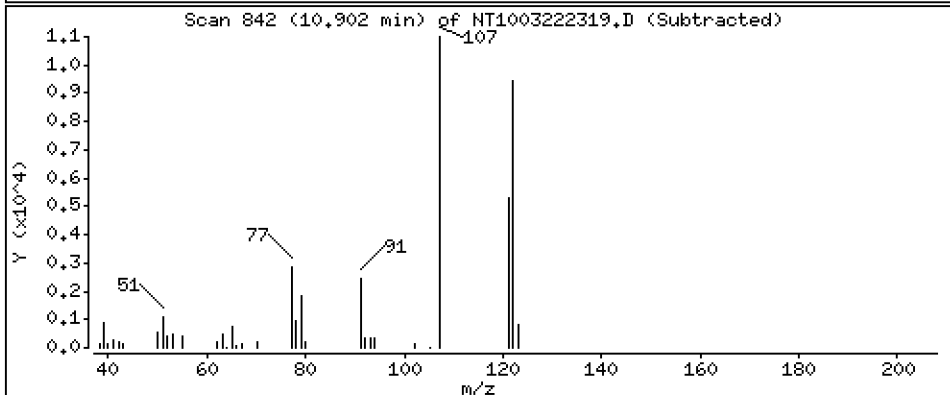
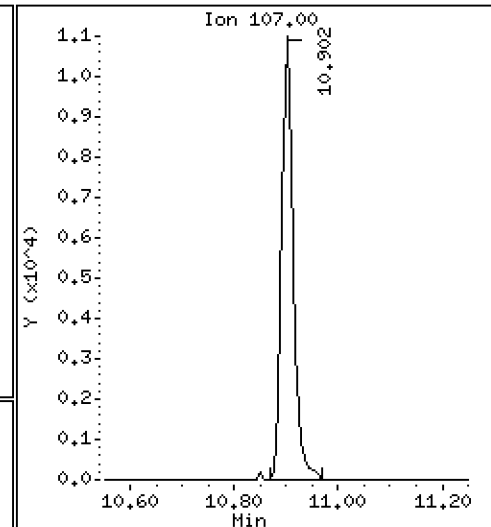
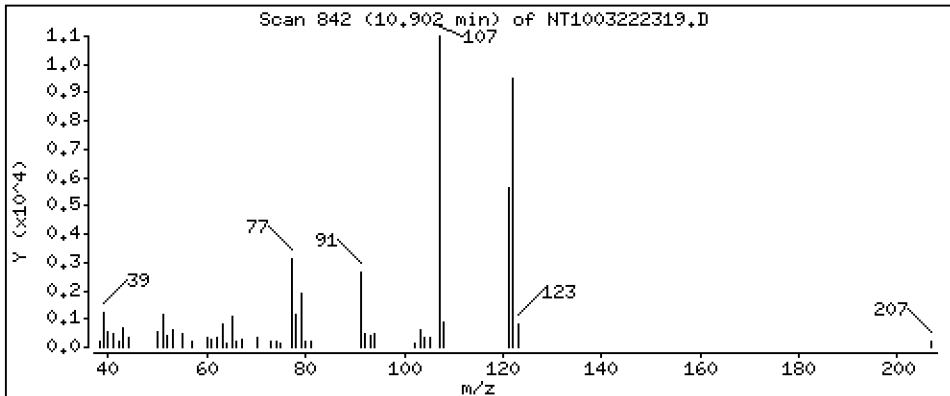
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,3865 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

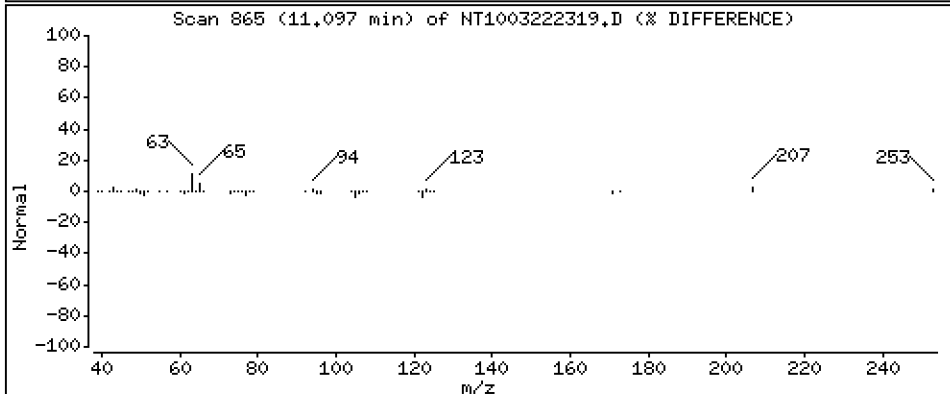
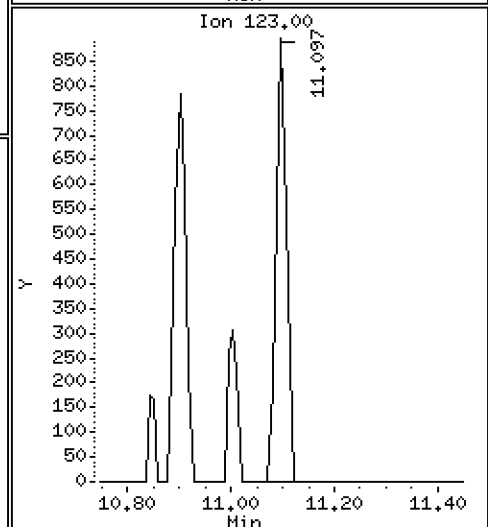
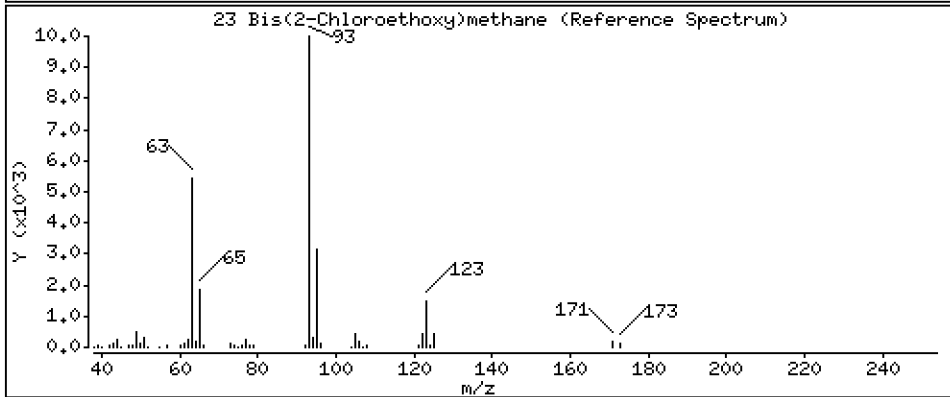
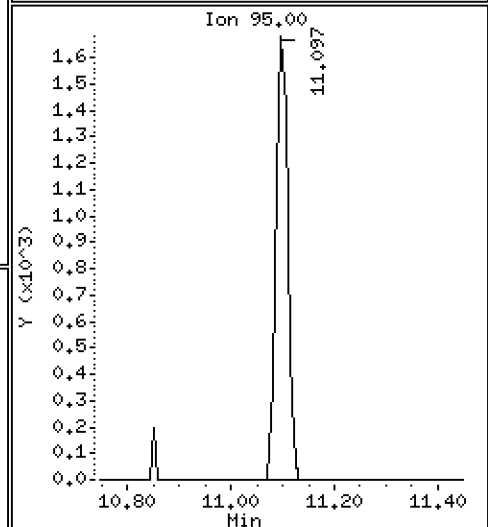
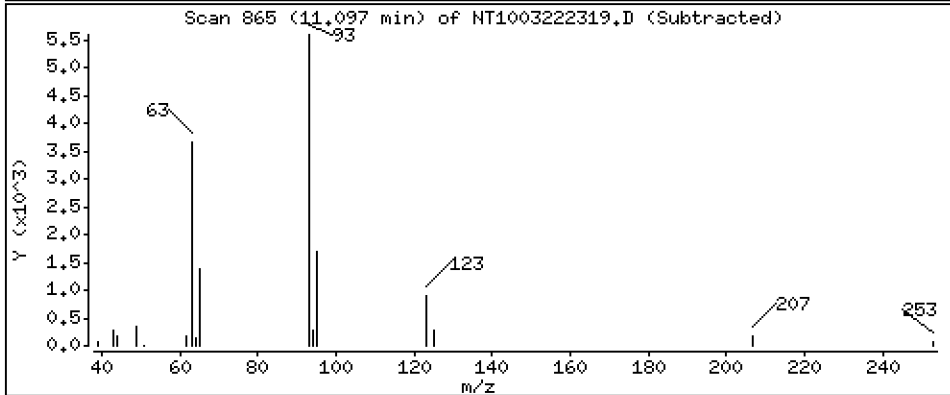
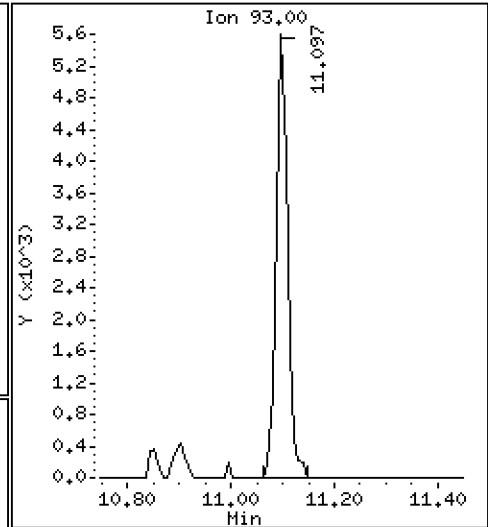
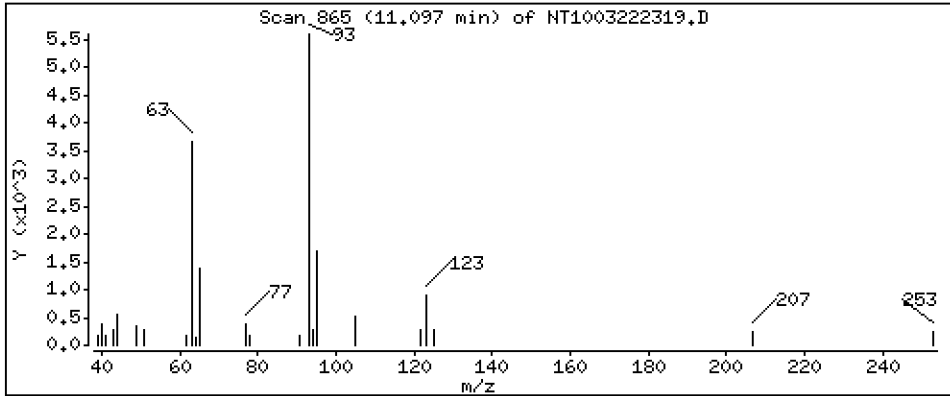
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,2089 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

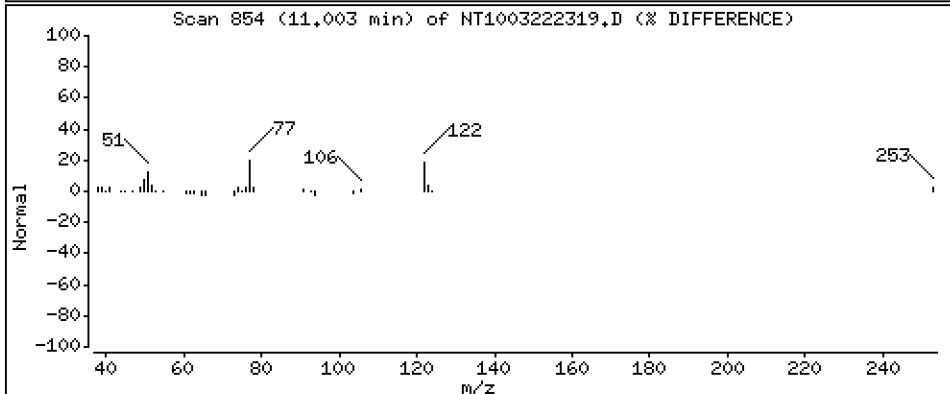
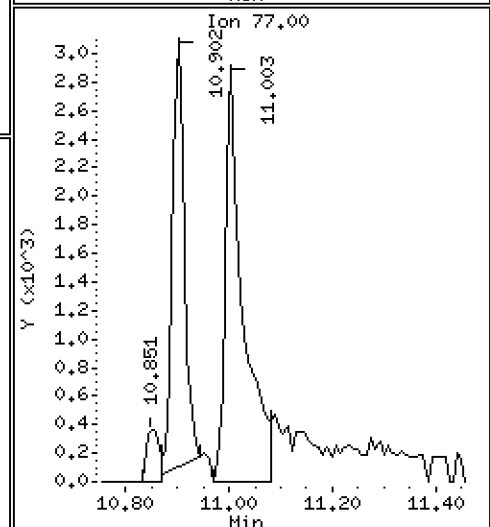
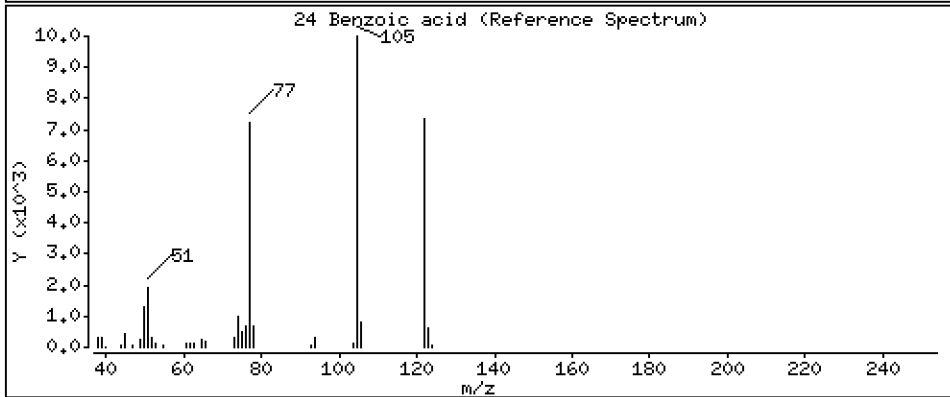
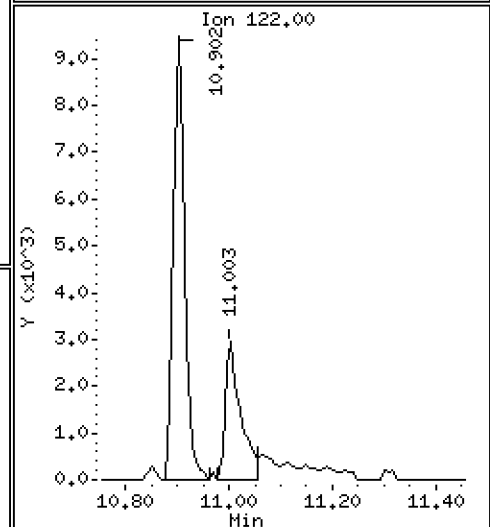
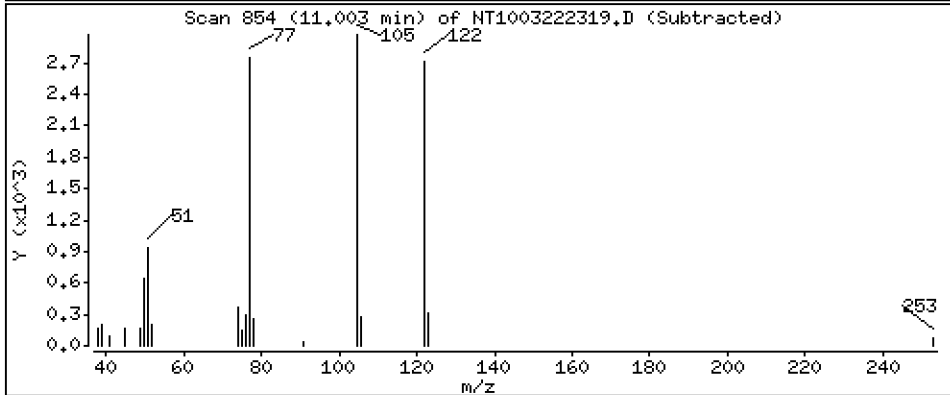
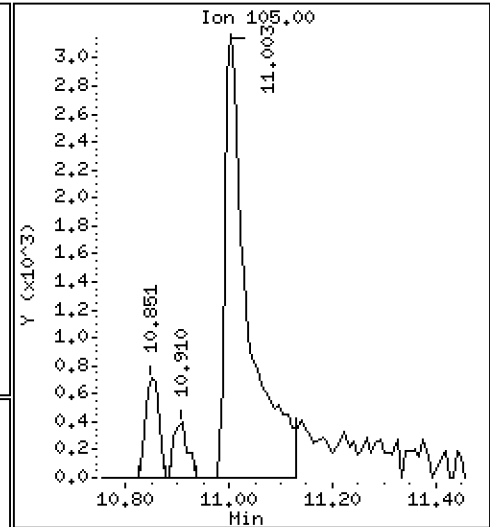
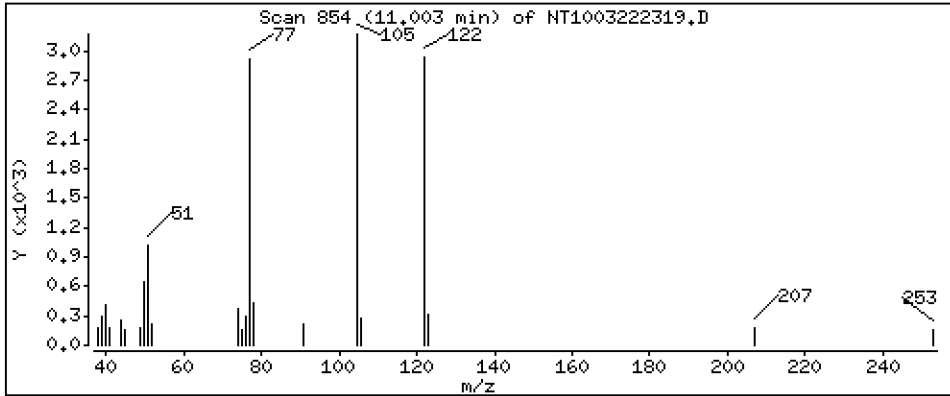
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,4164 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

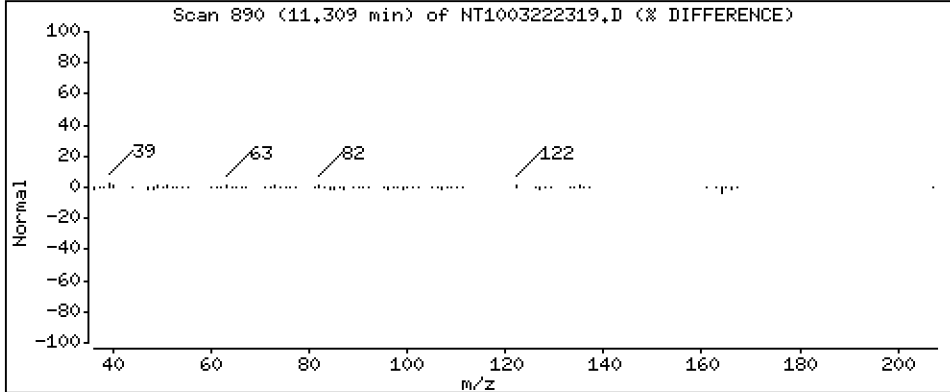
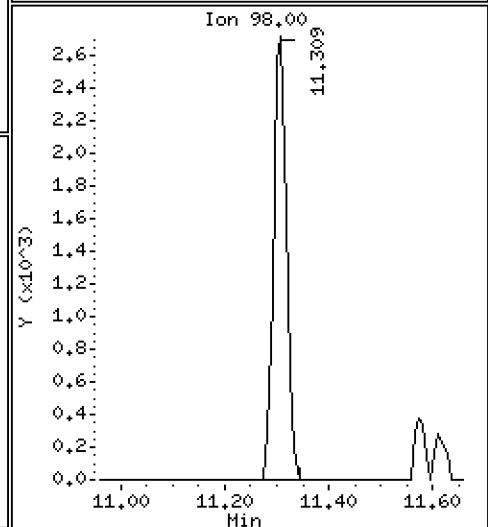
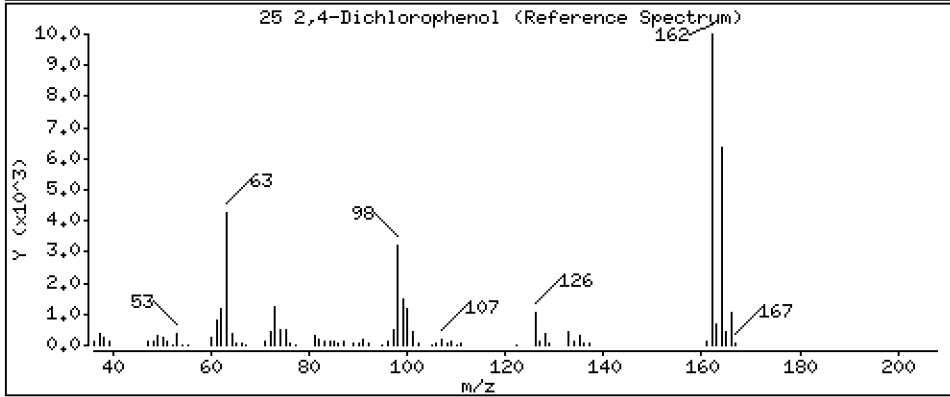
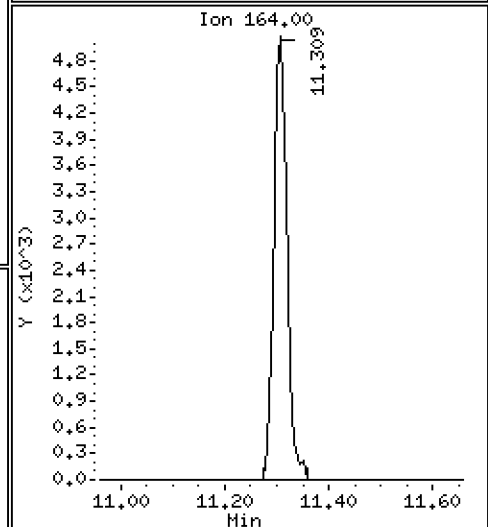
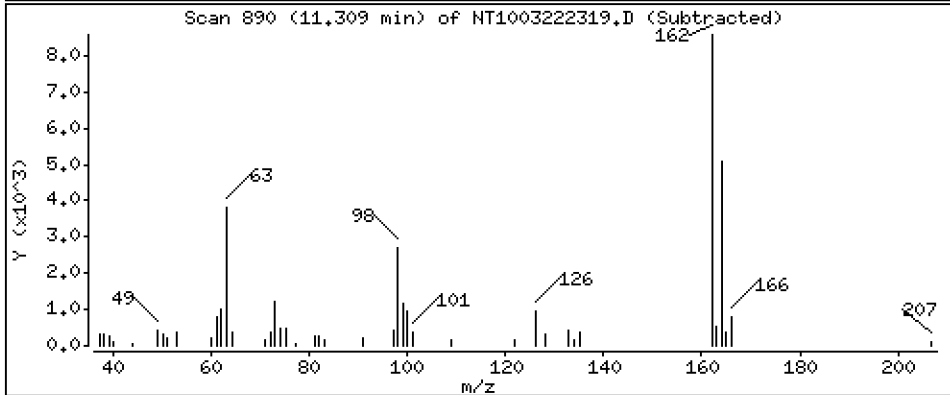
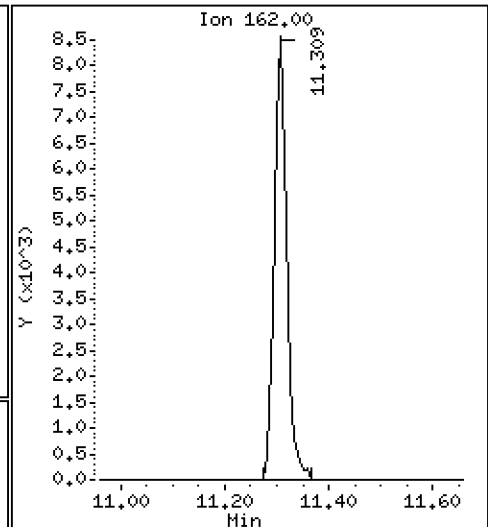
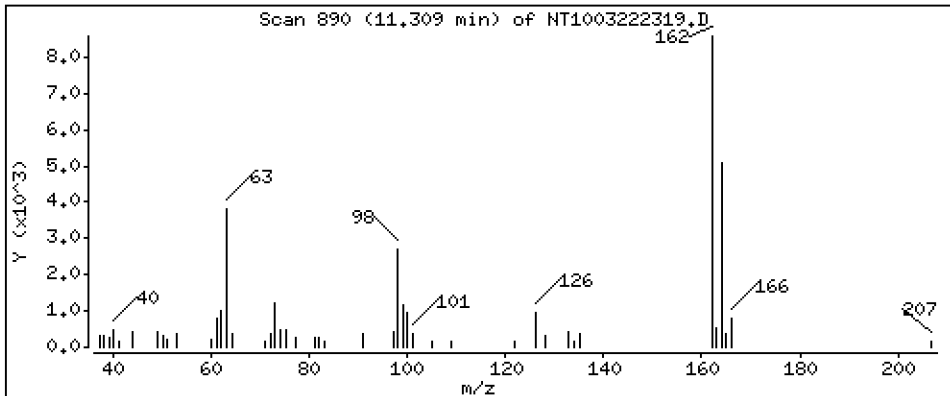
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,4020 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

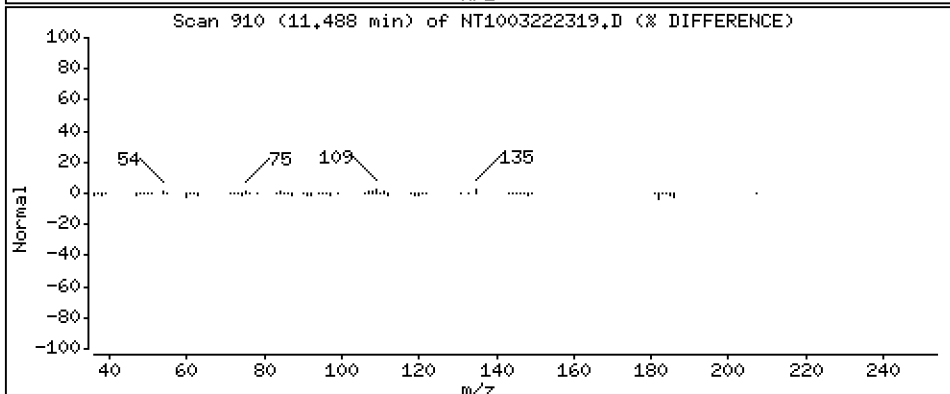
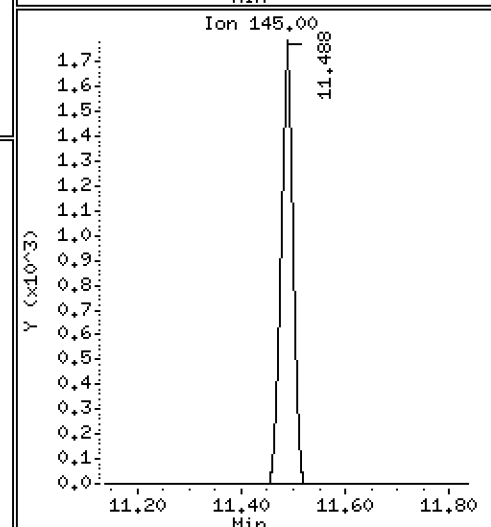
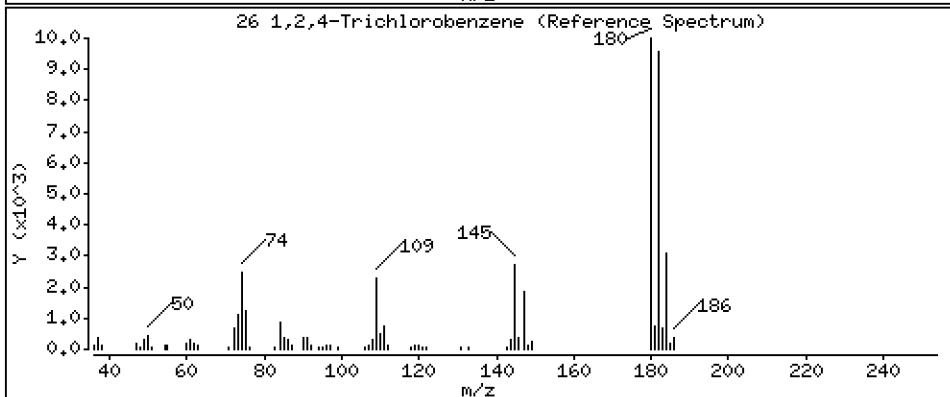
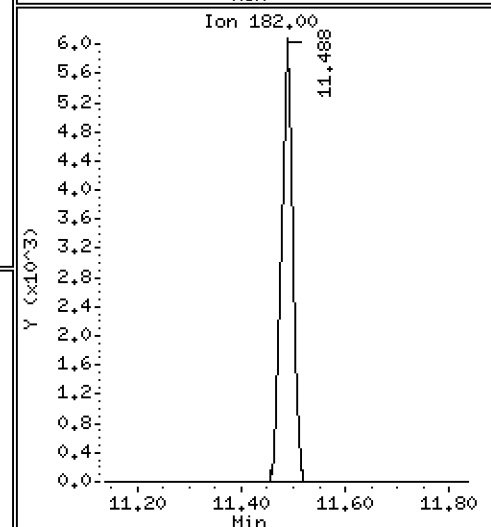
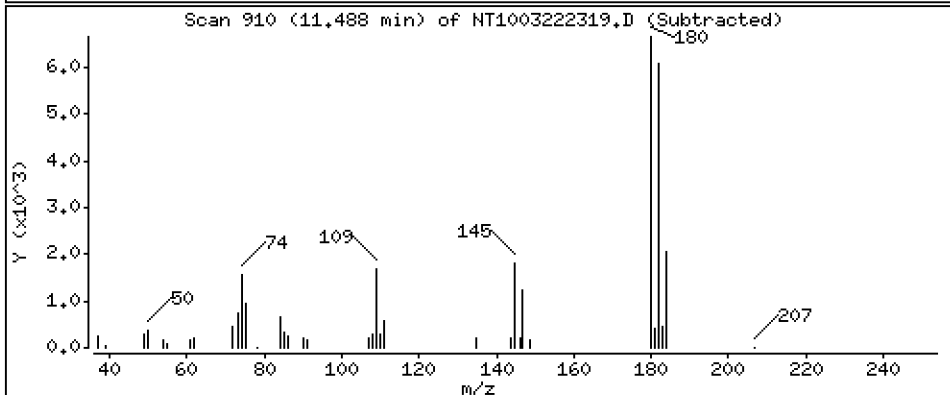
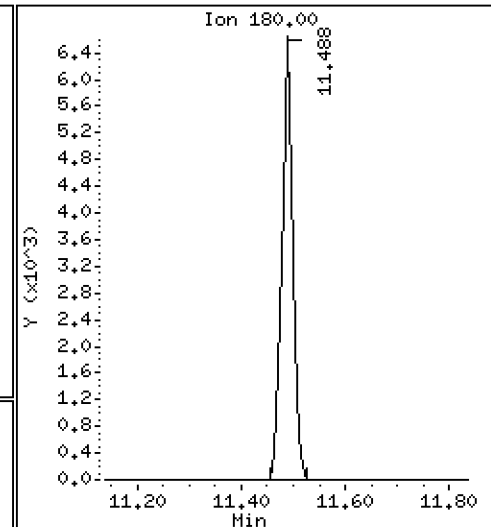
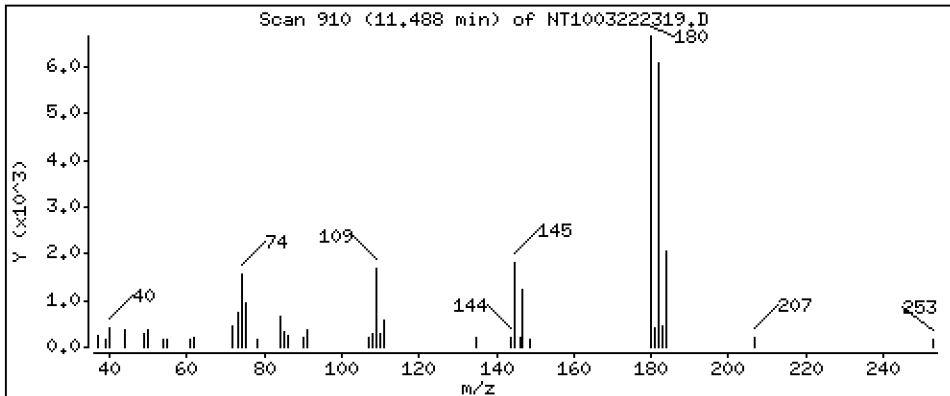
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,2281 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

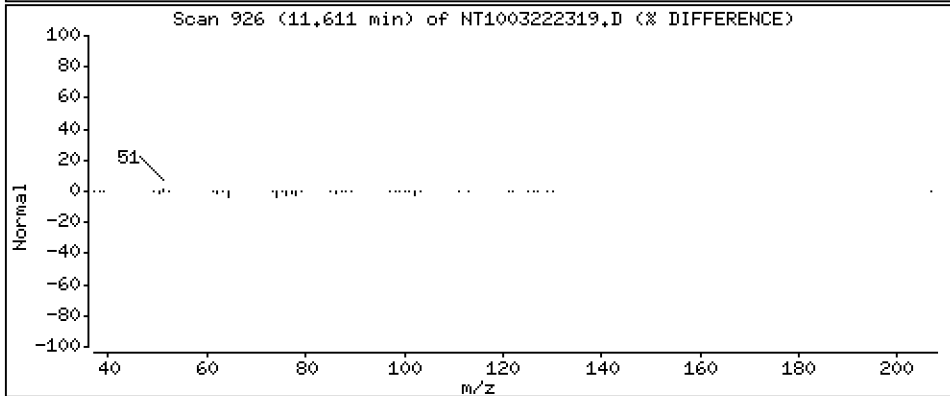
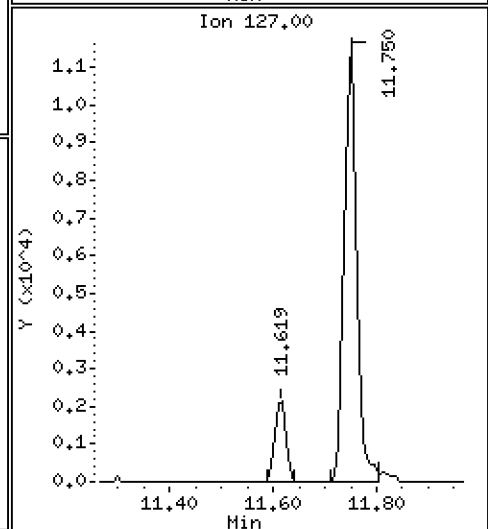
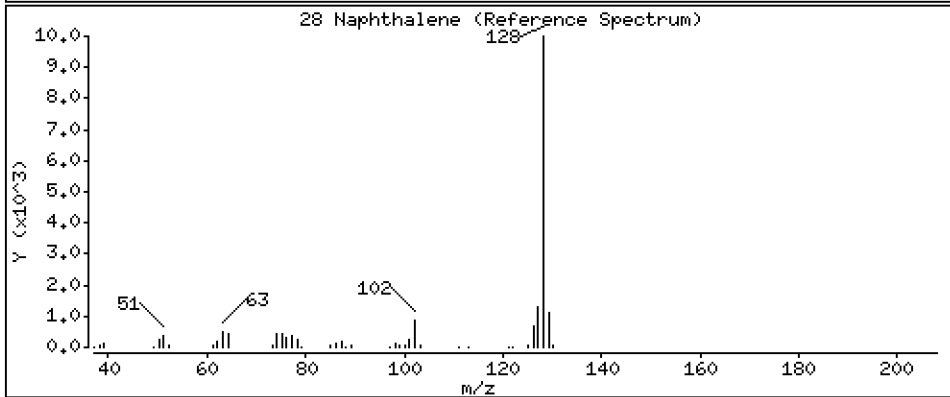
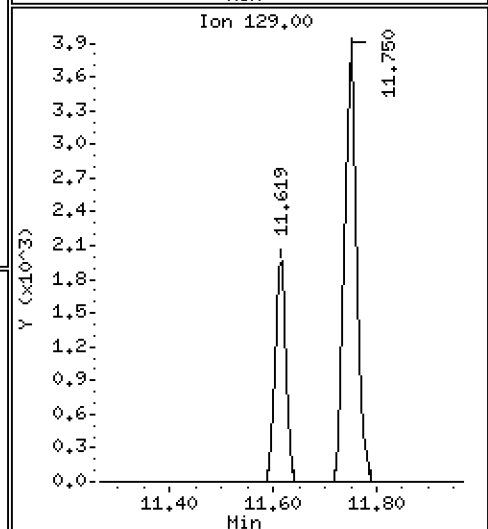
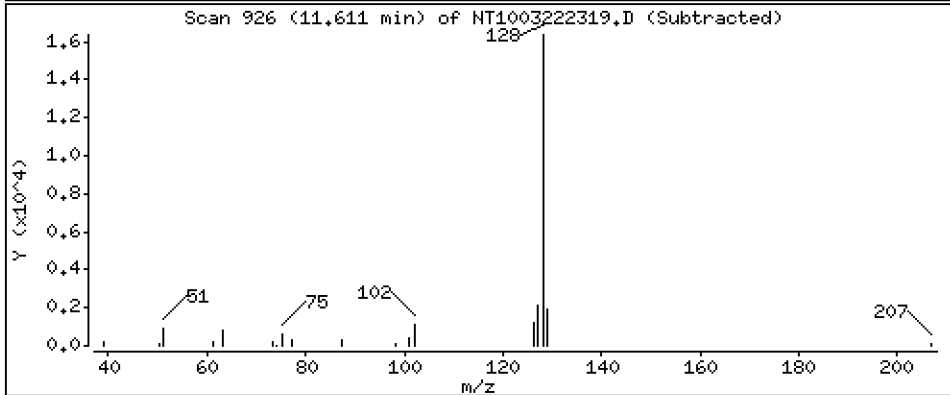
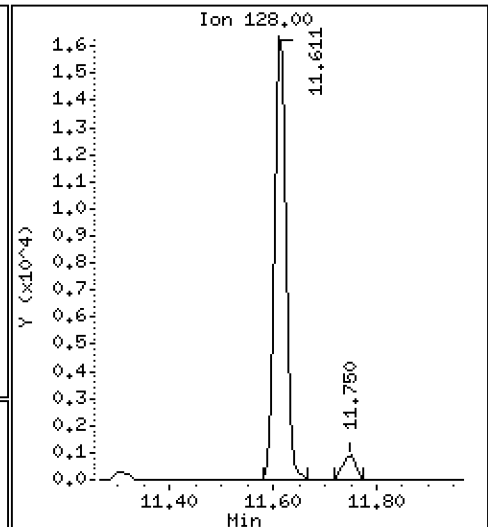
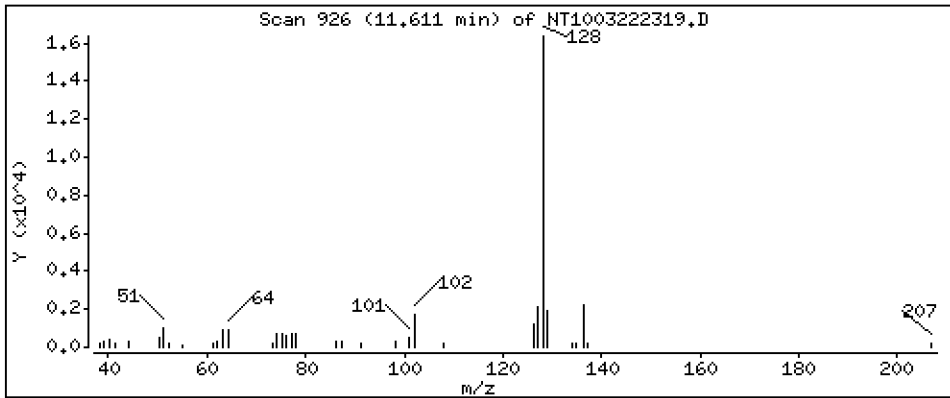
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2079 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

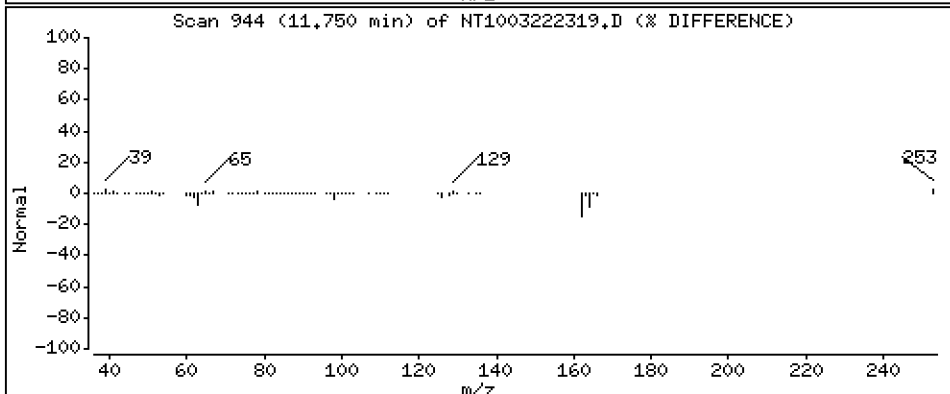
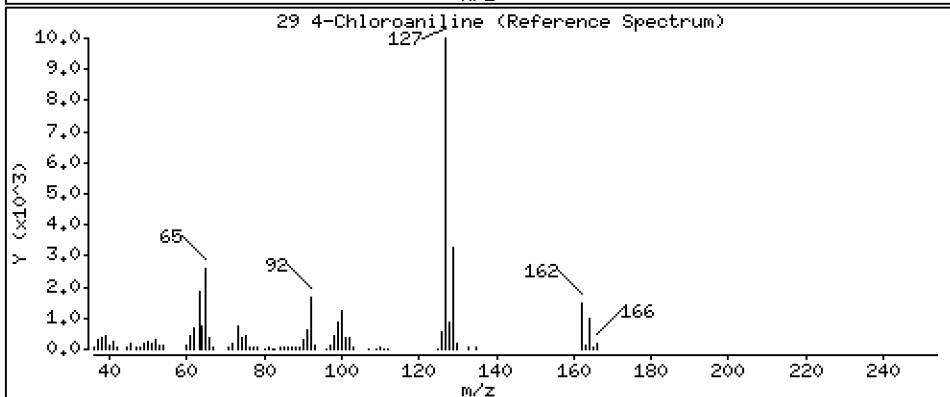
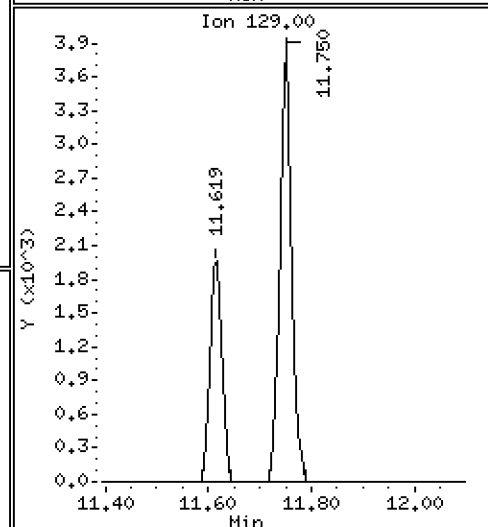
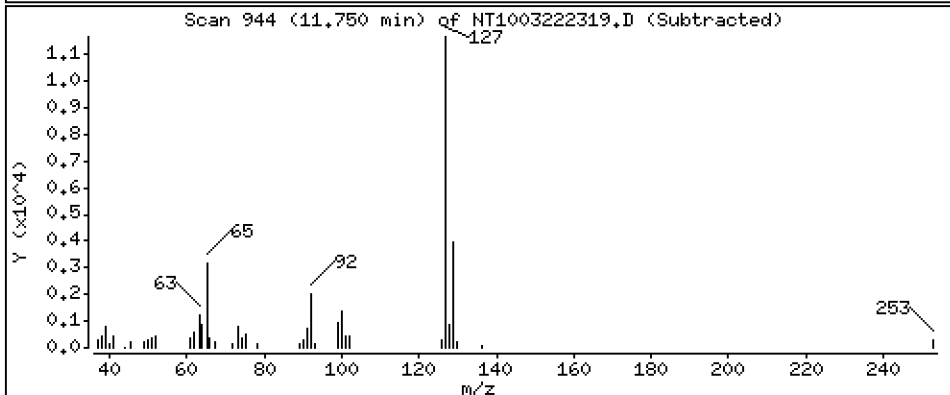
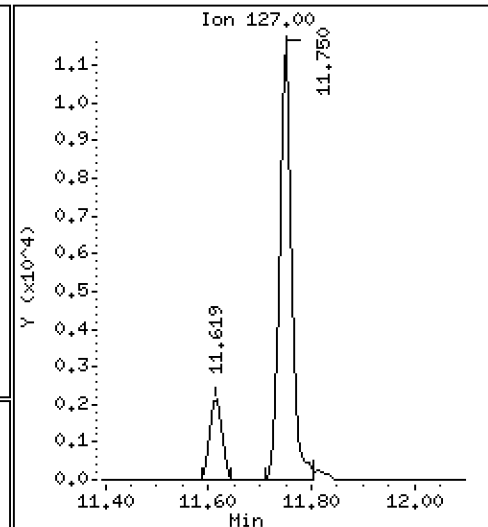
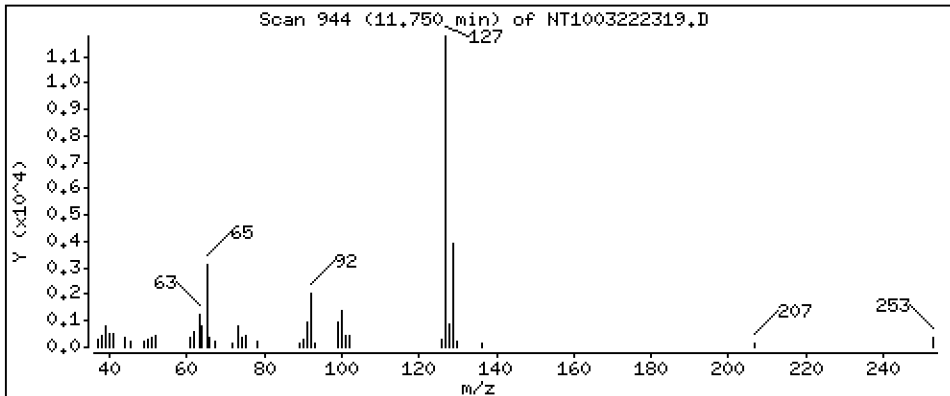
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3783 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

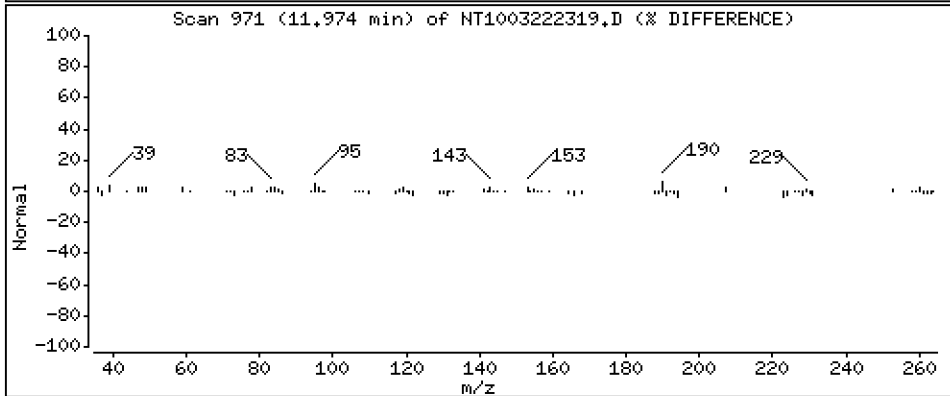
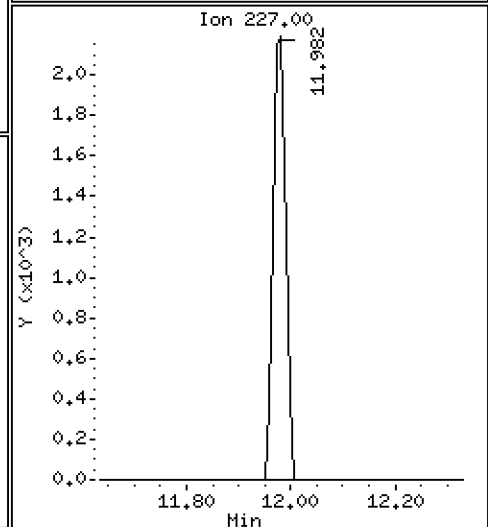
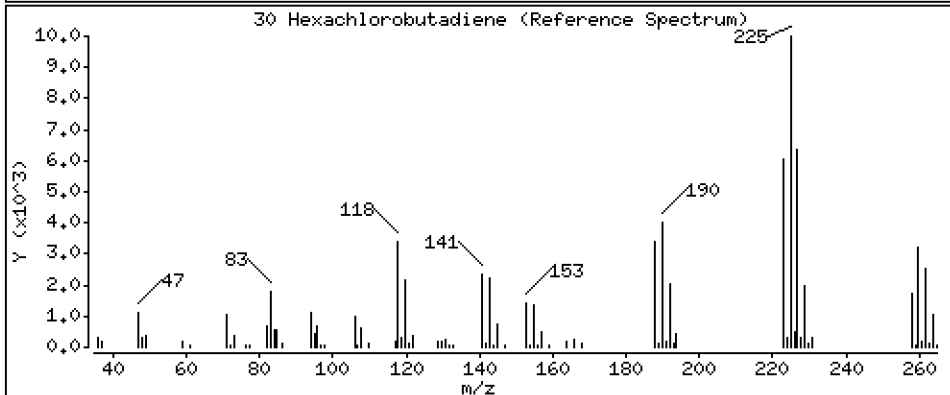
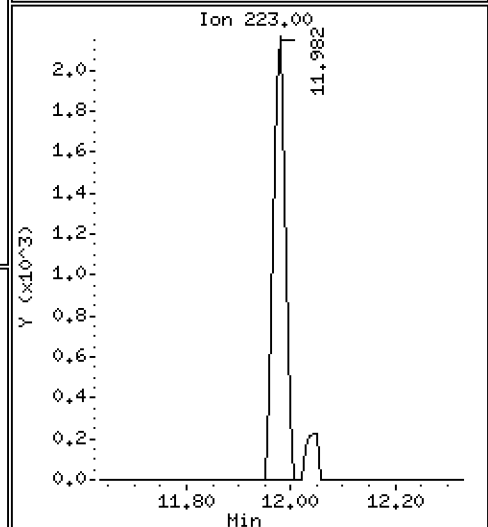
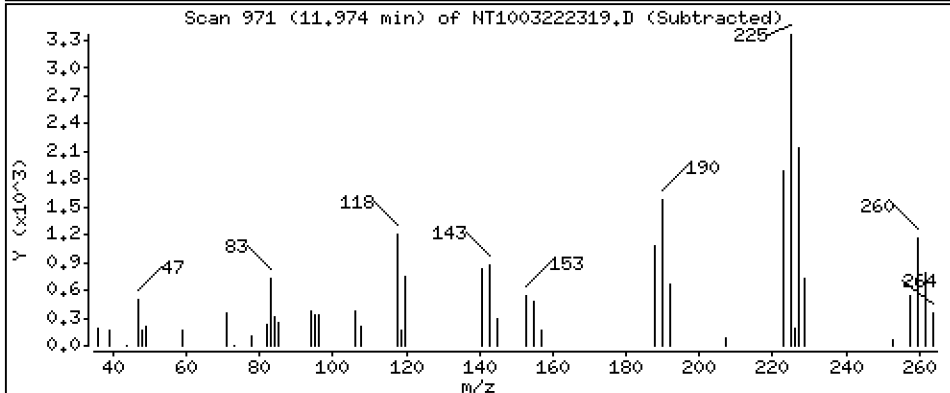
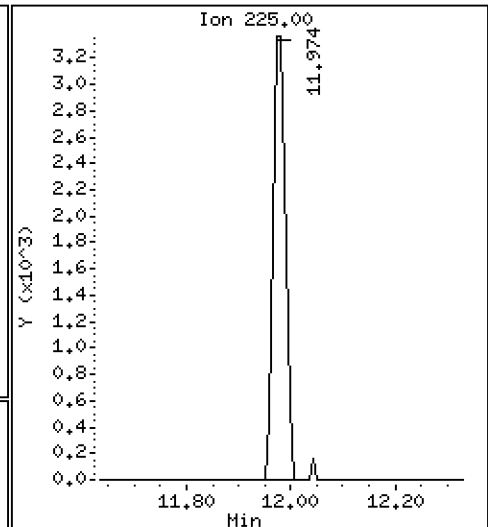
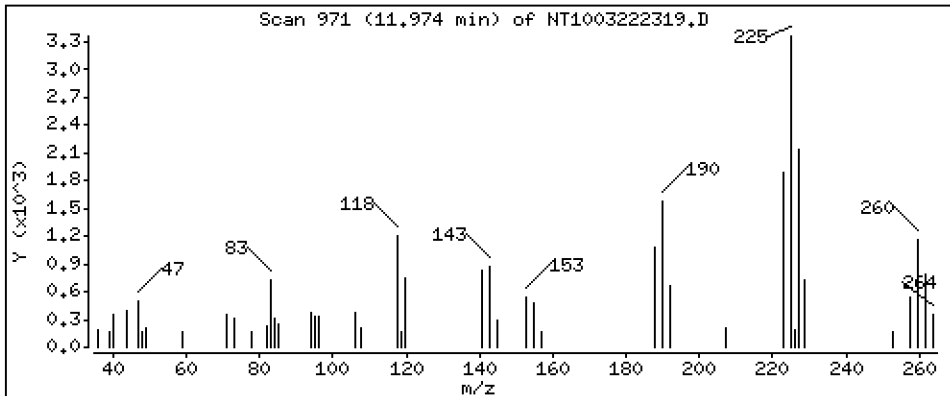
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,2194 ug/mL





Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

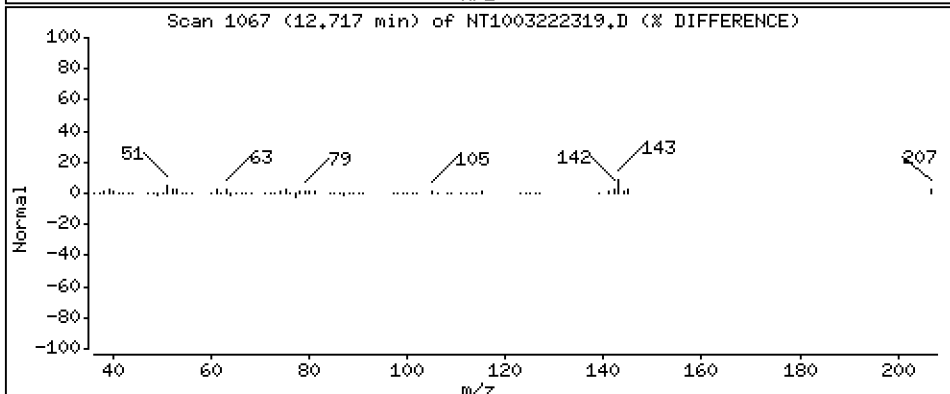
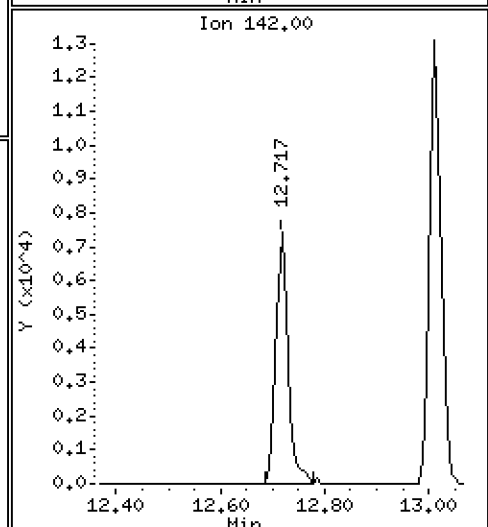
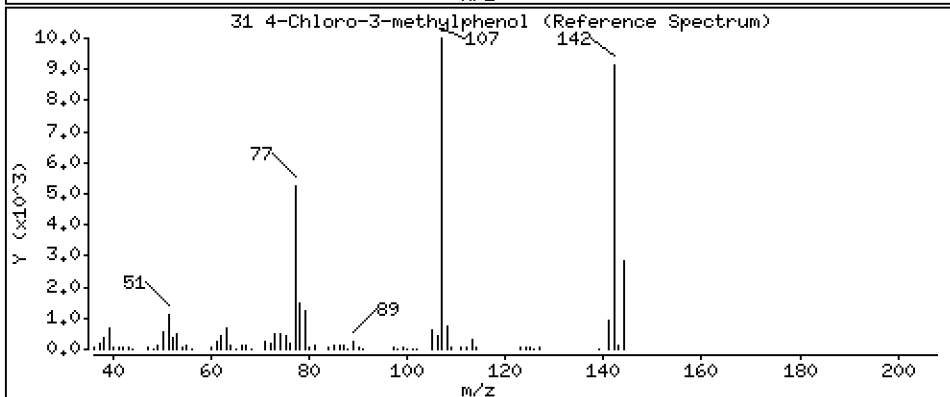
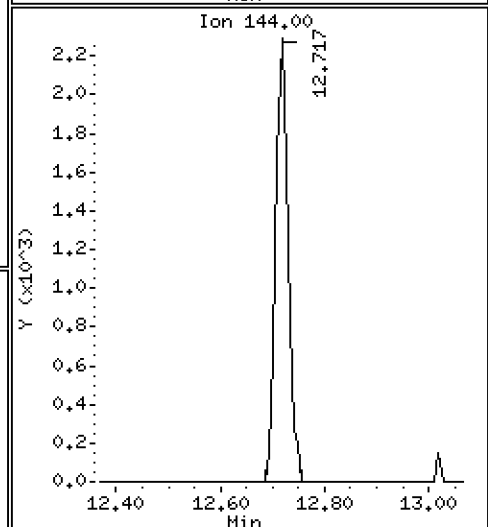
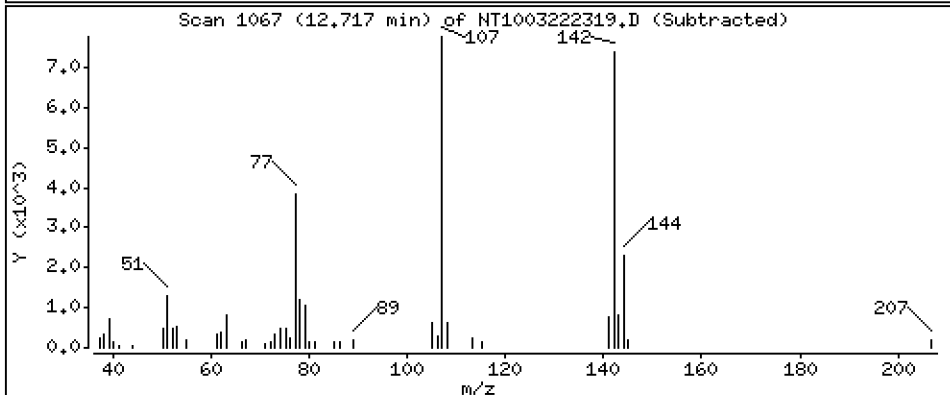
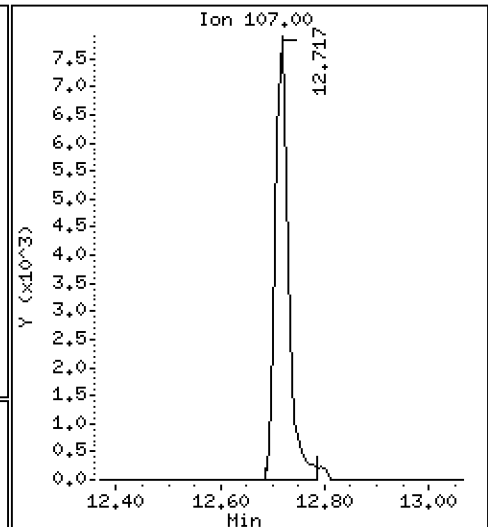
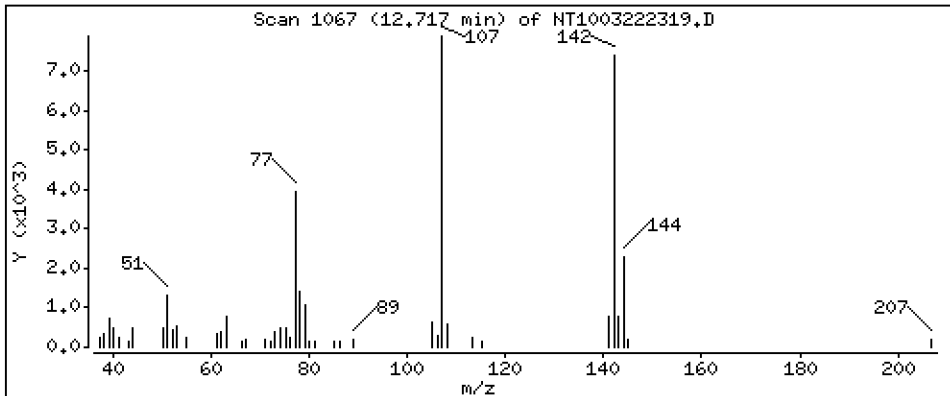
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,3500 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

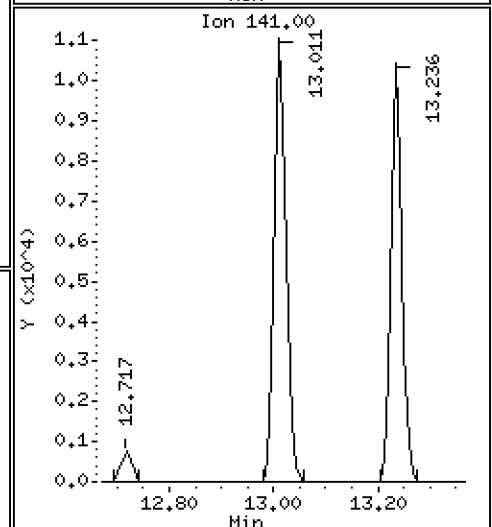
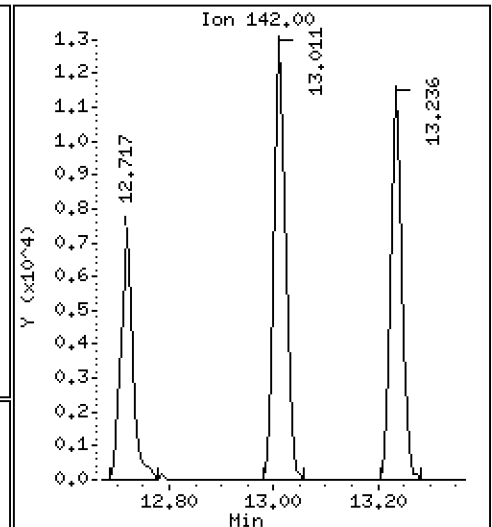
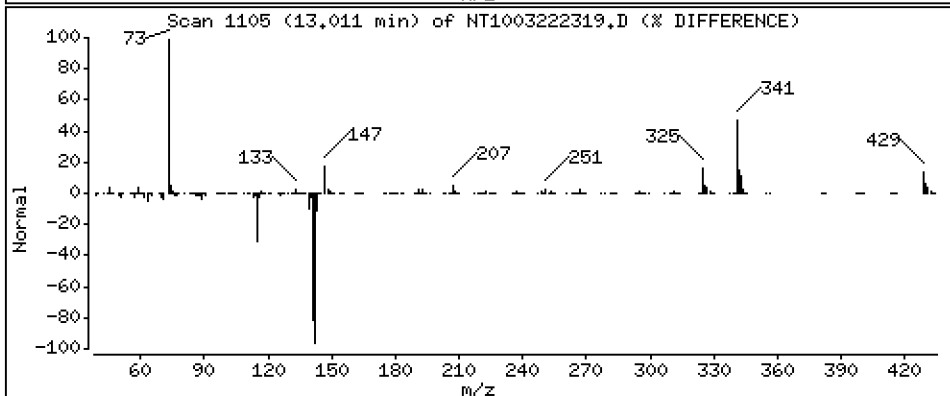
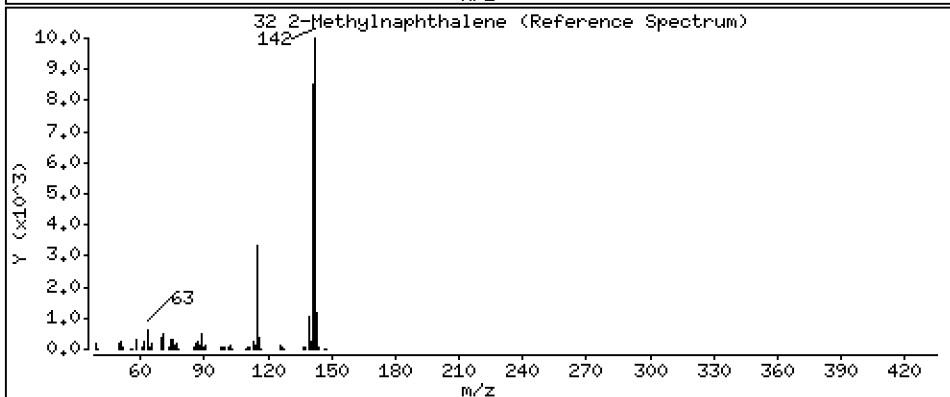
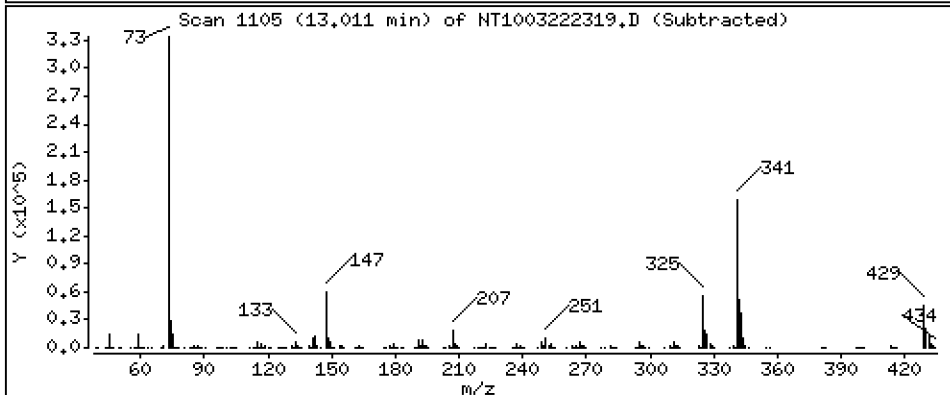
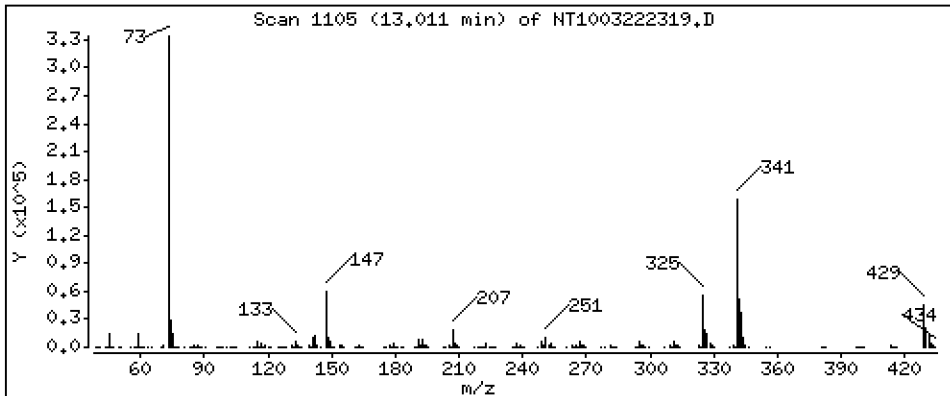
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,2137 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

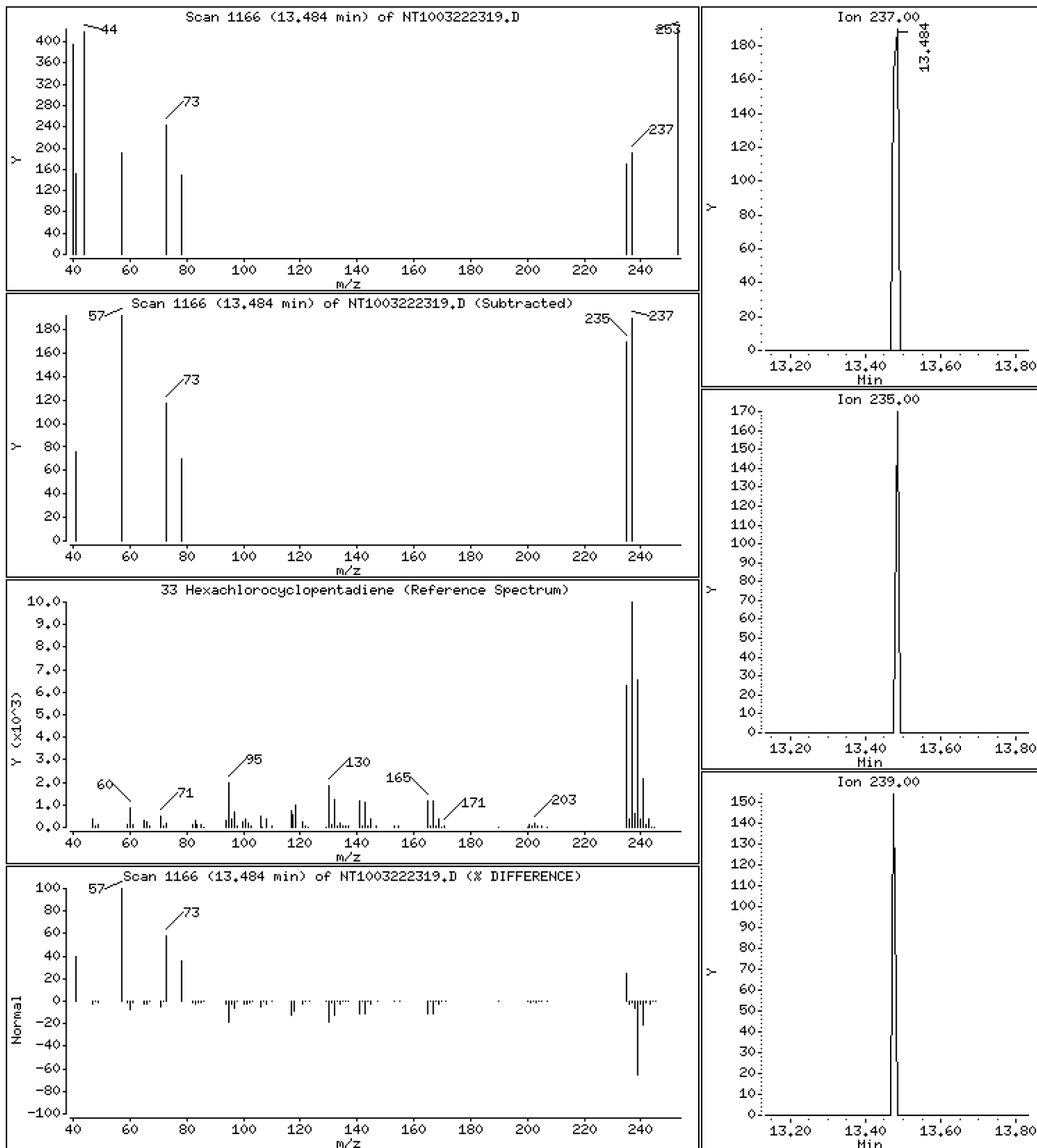
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,006755 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

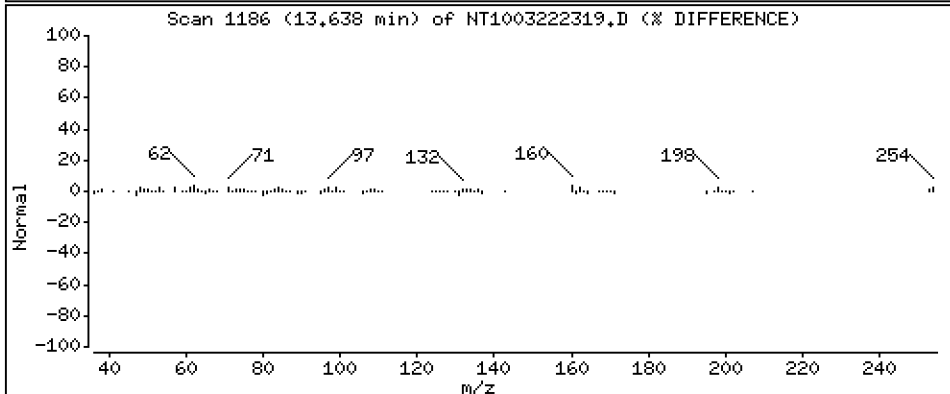
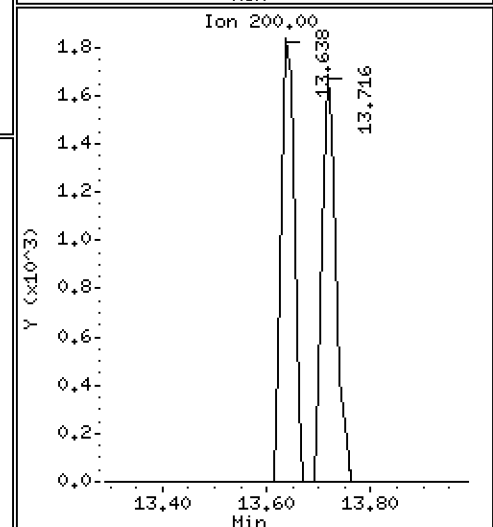
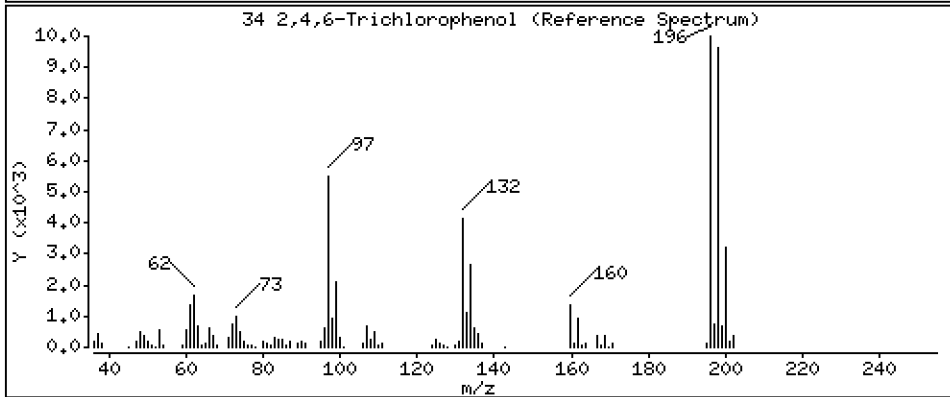
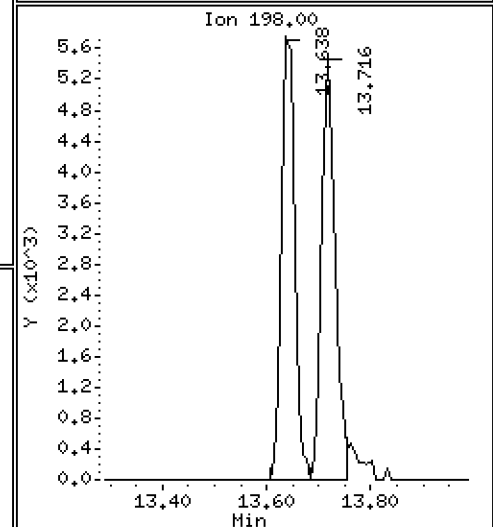
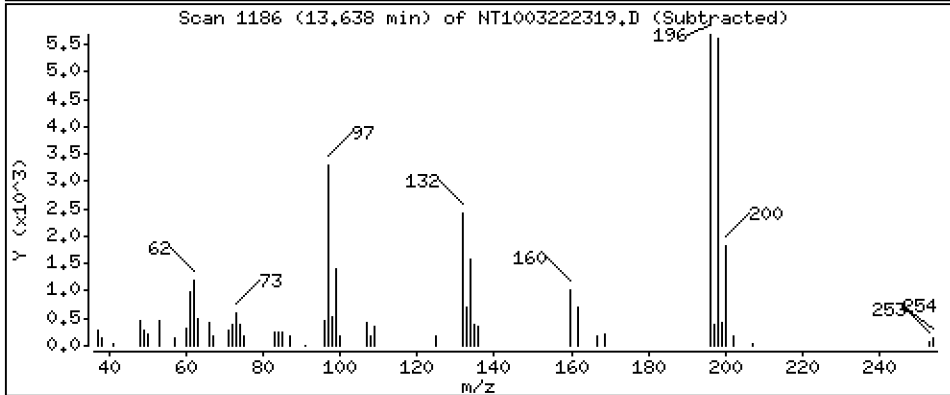
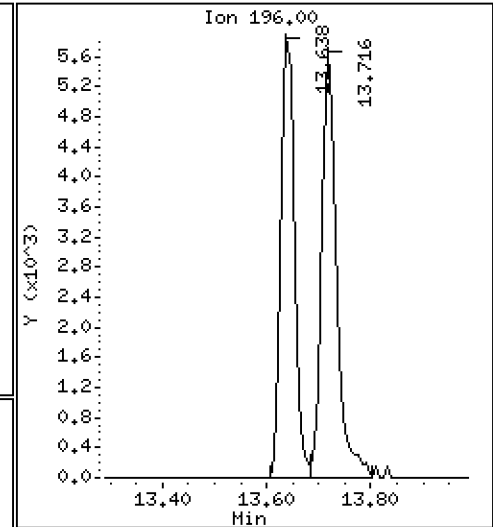
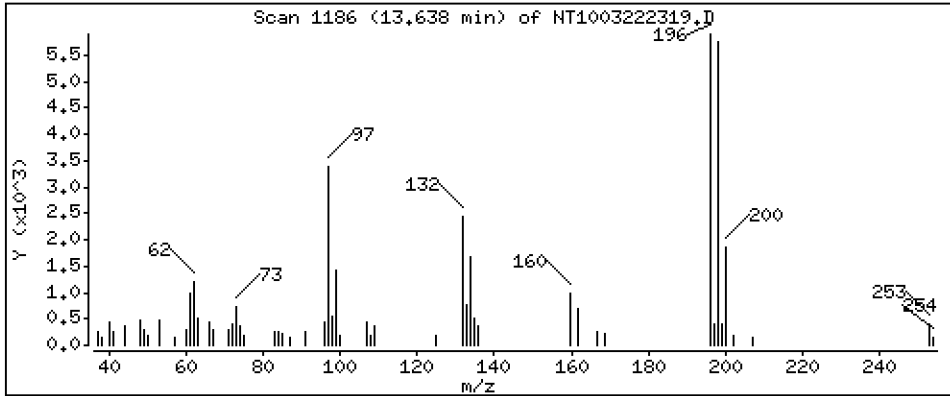
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,3908 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

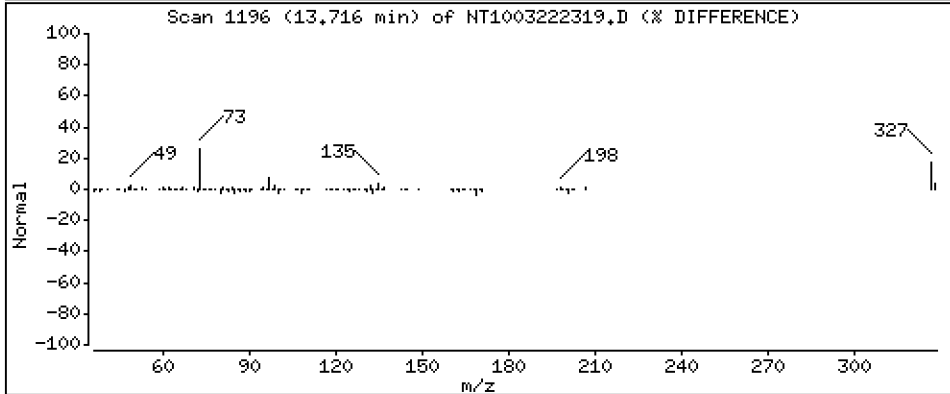
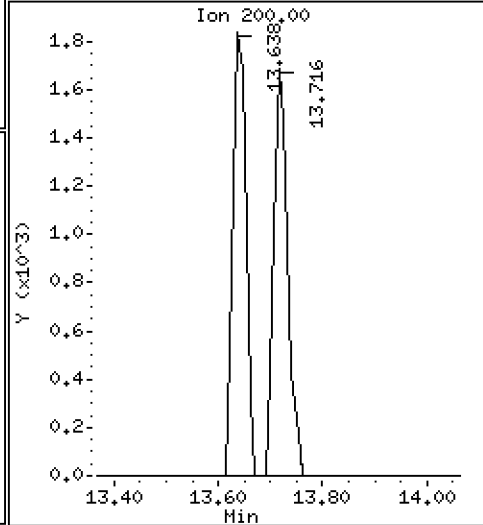
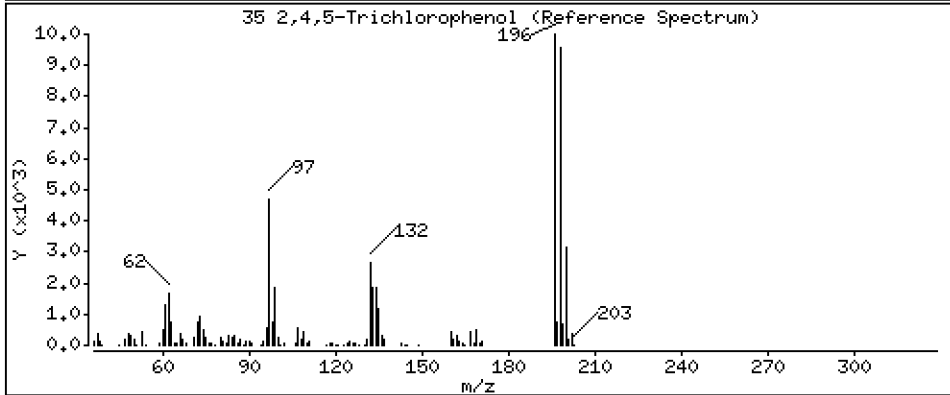
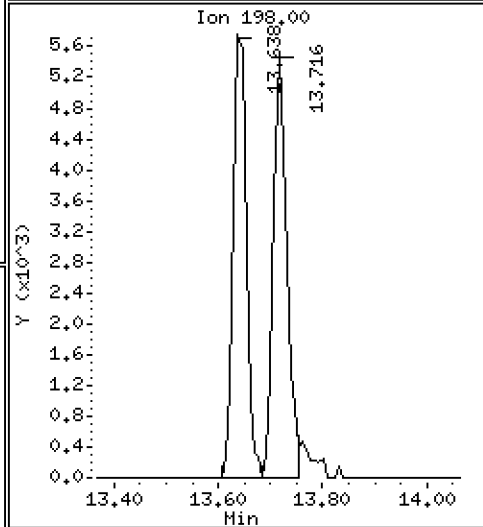
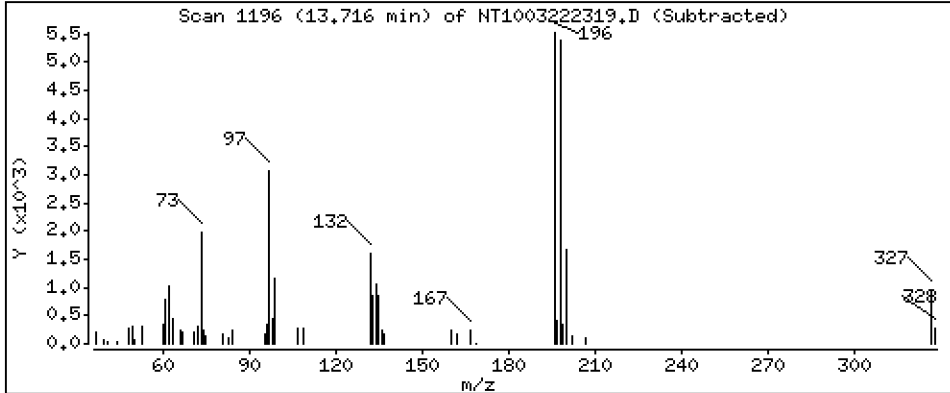
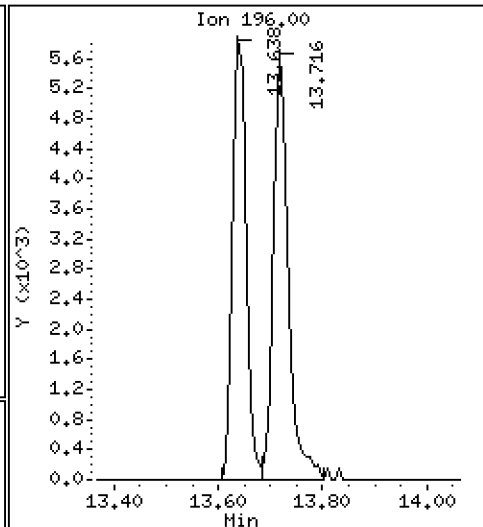
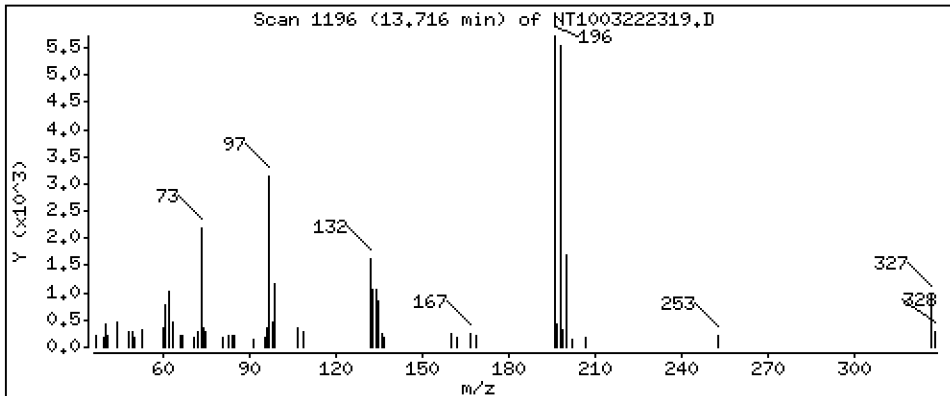
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,3791 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

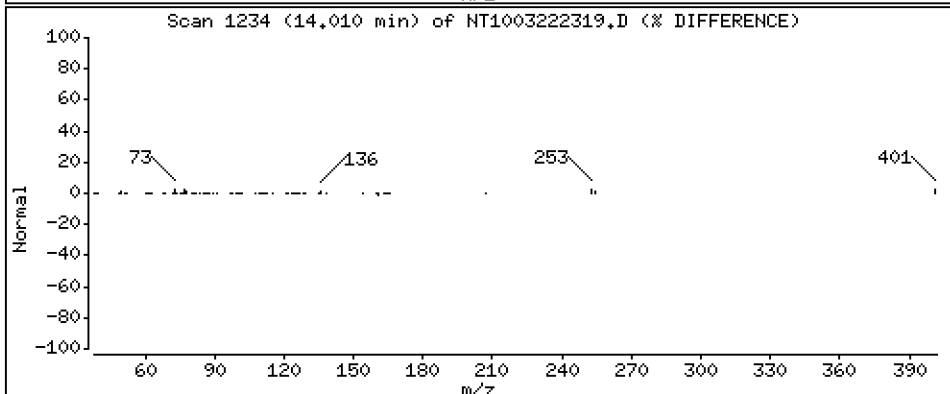
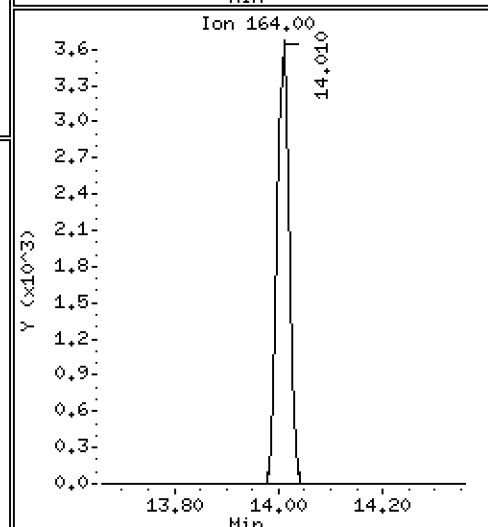
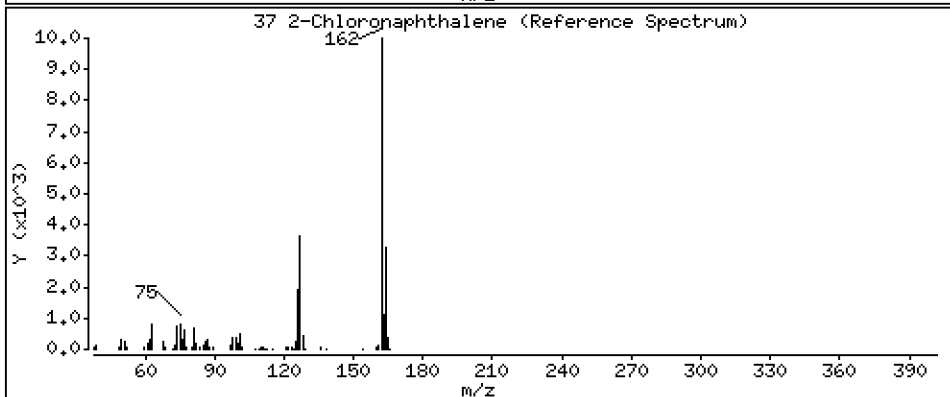
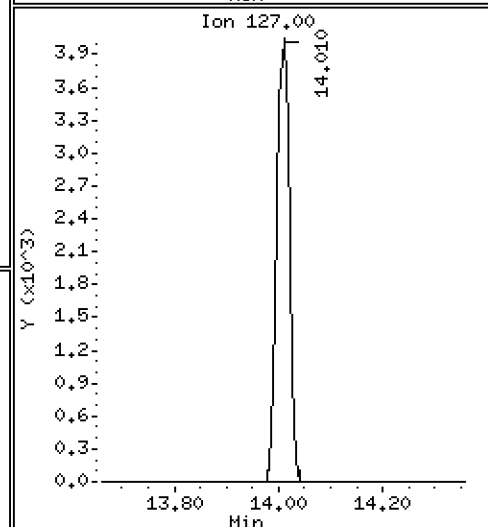
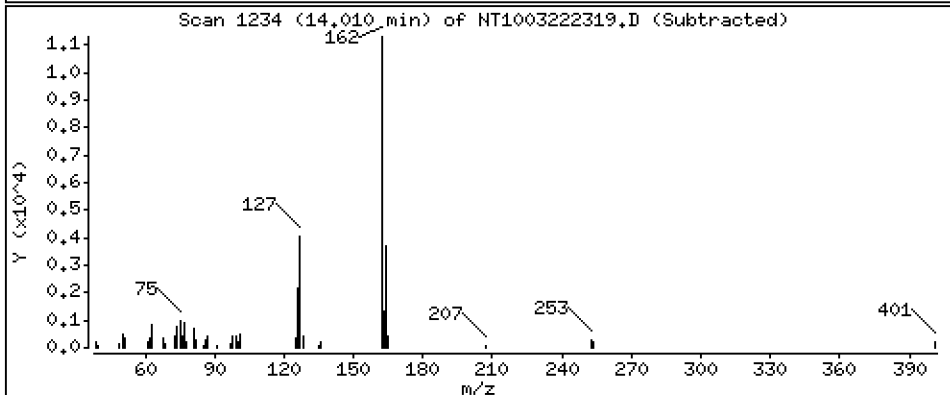
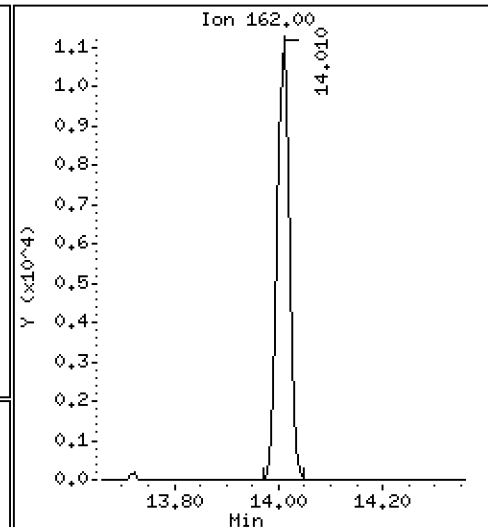
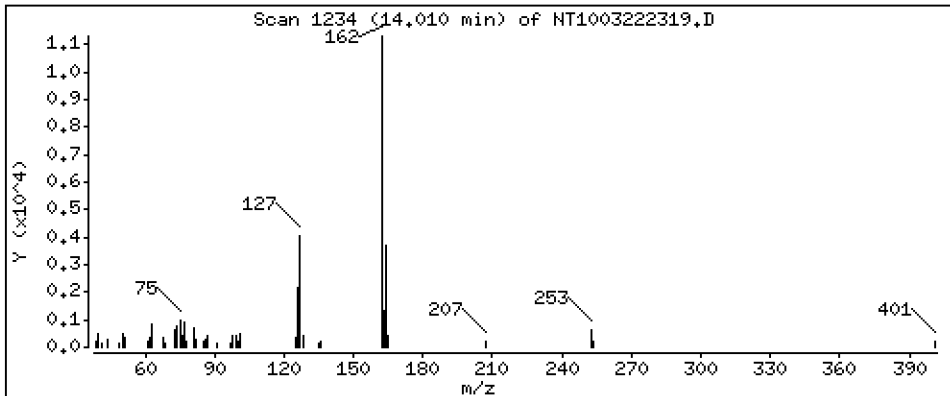
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,2044 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

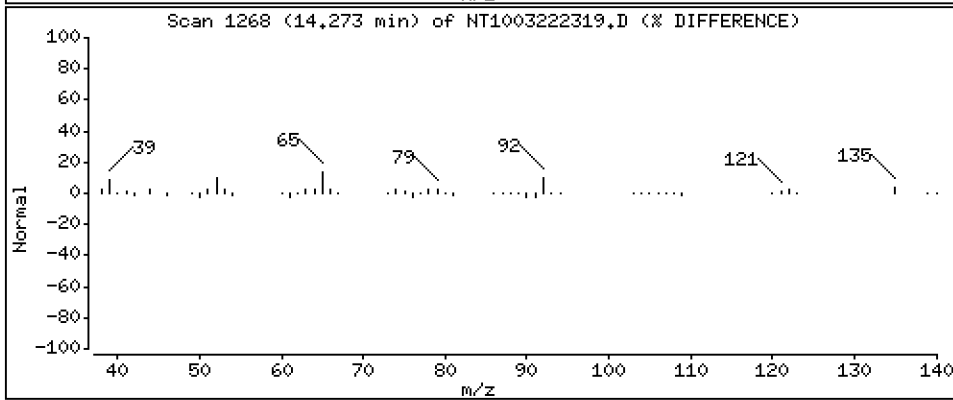
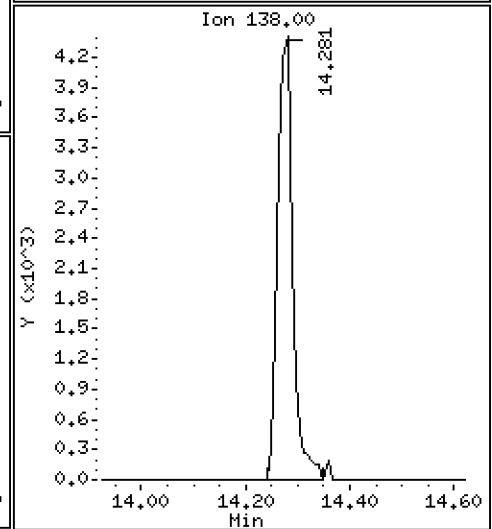
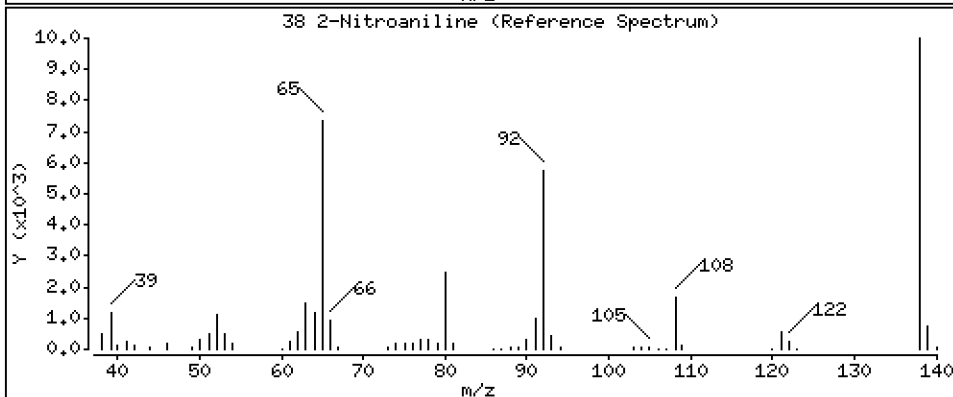
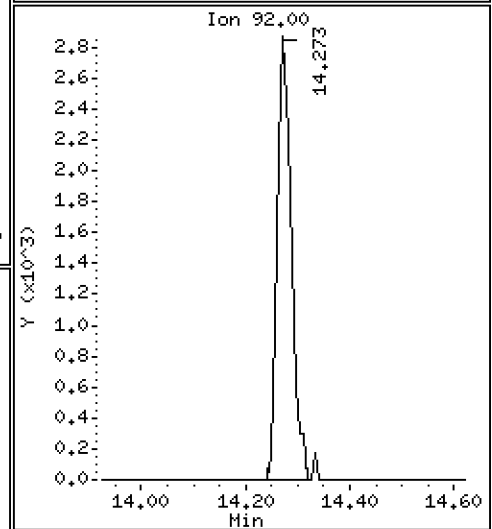
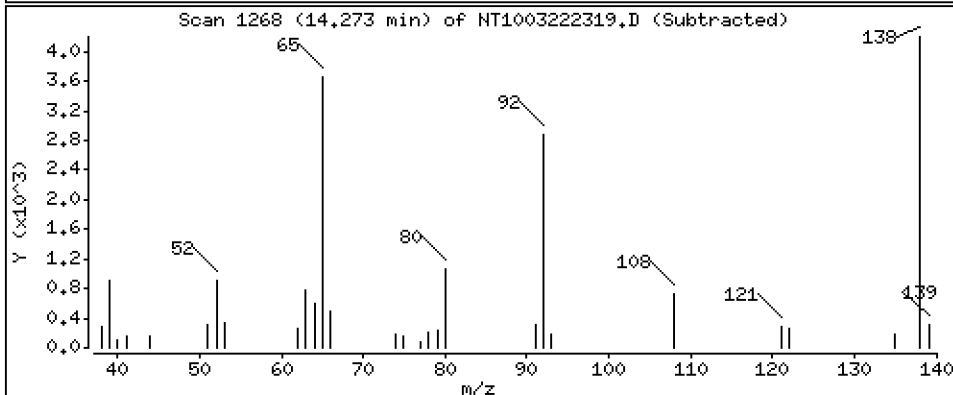
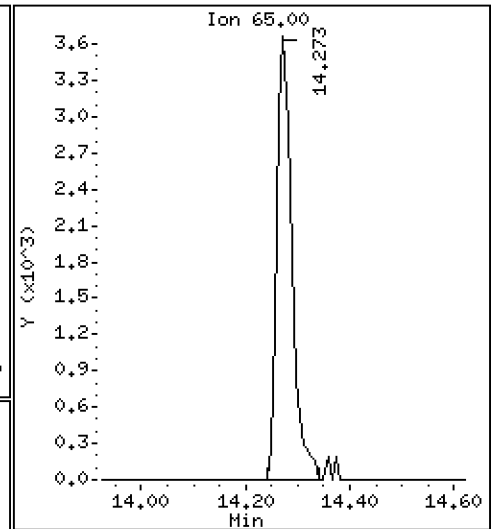
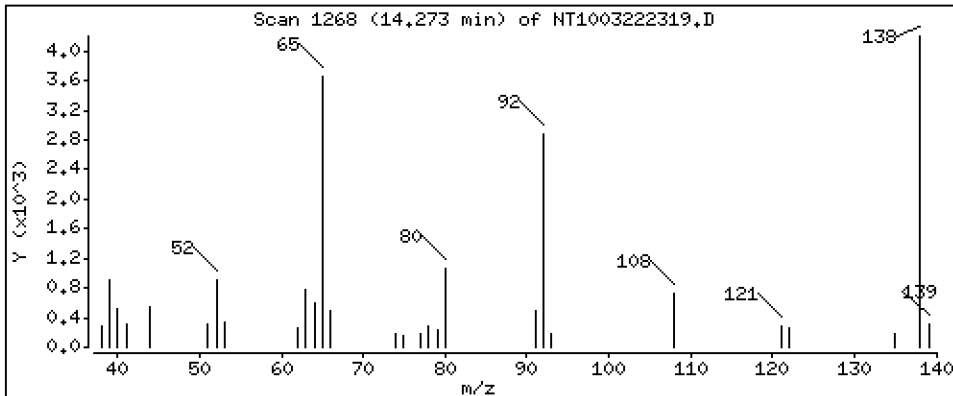
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,3006 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

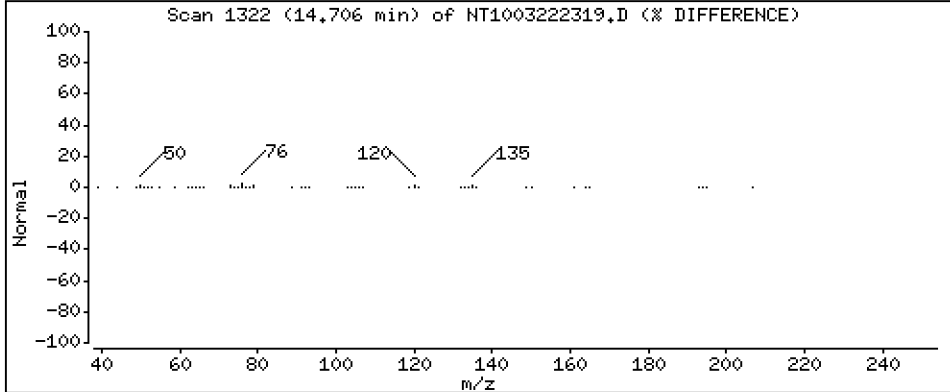
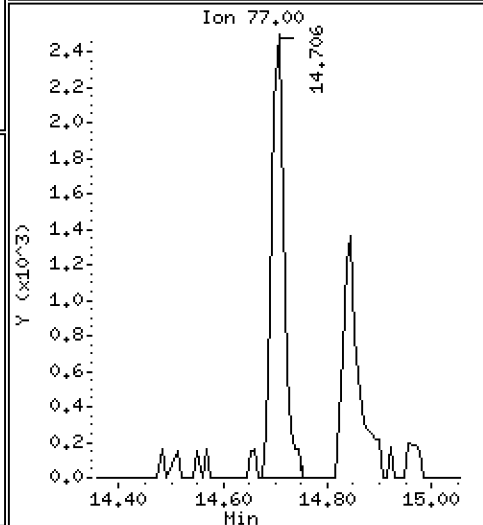
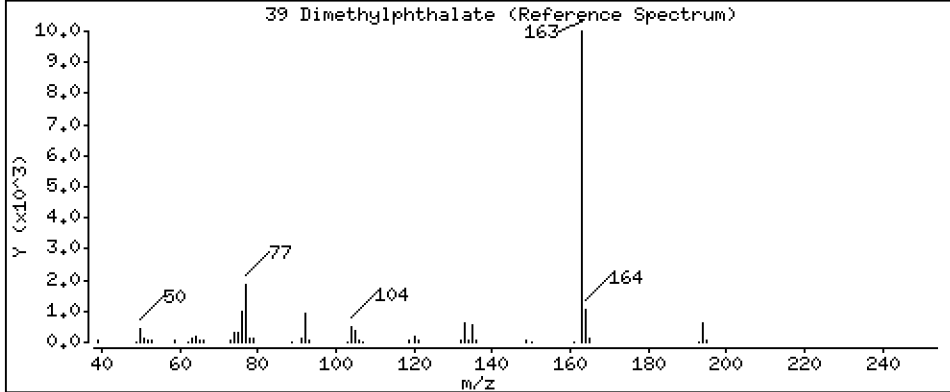
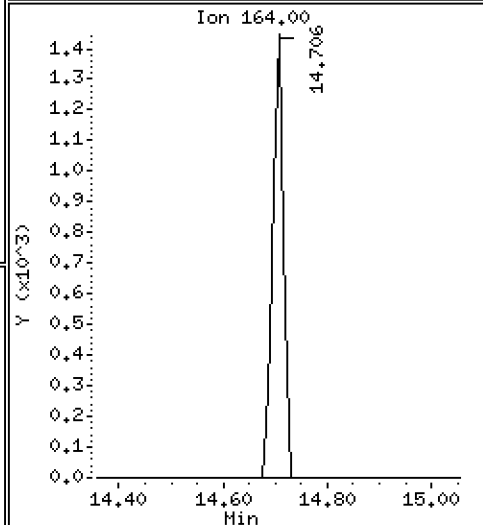
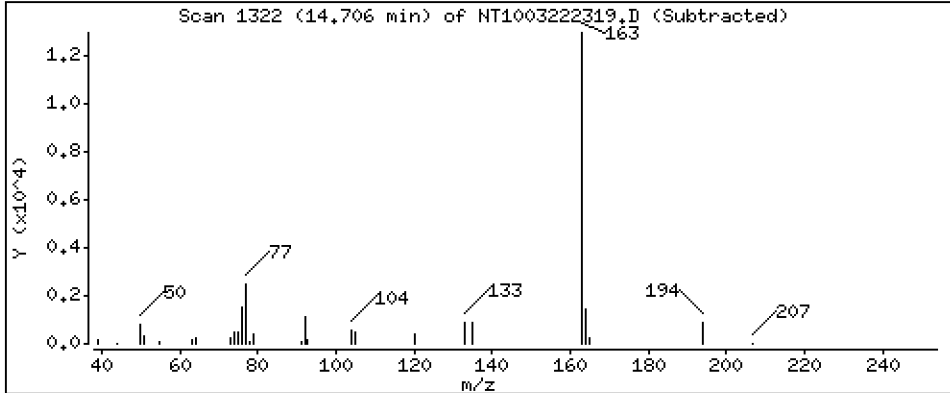
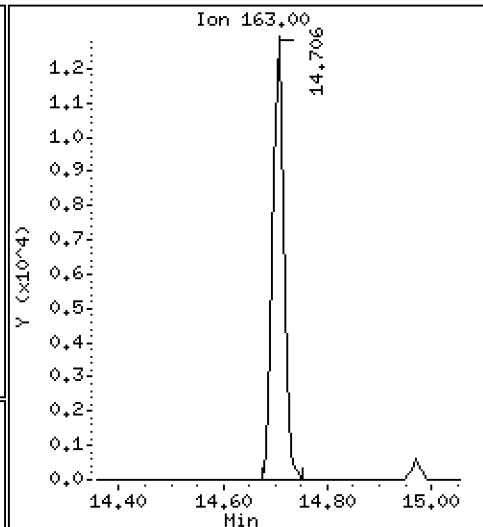
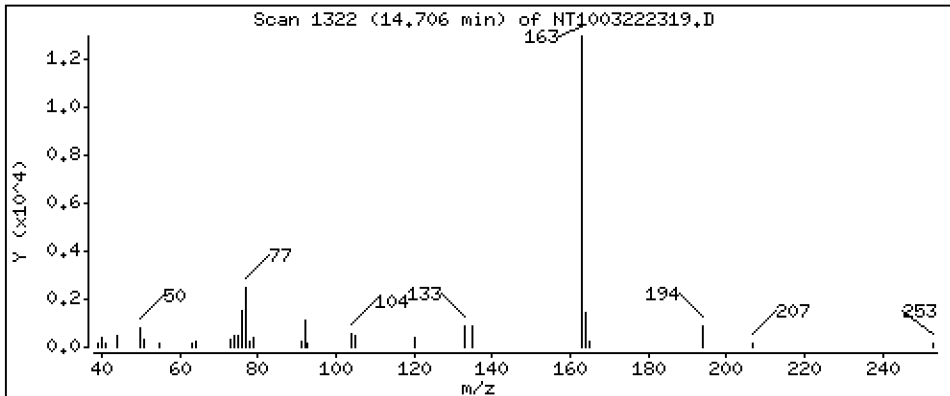
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2123 ug/mL





Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

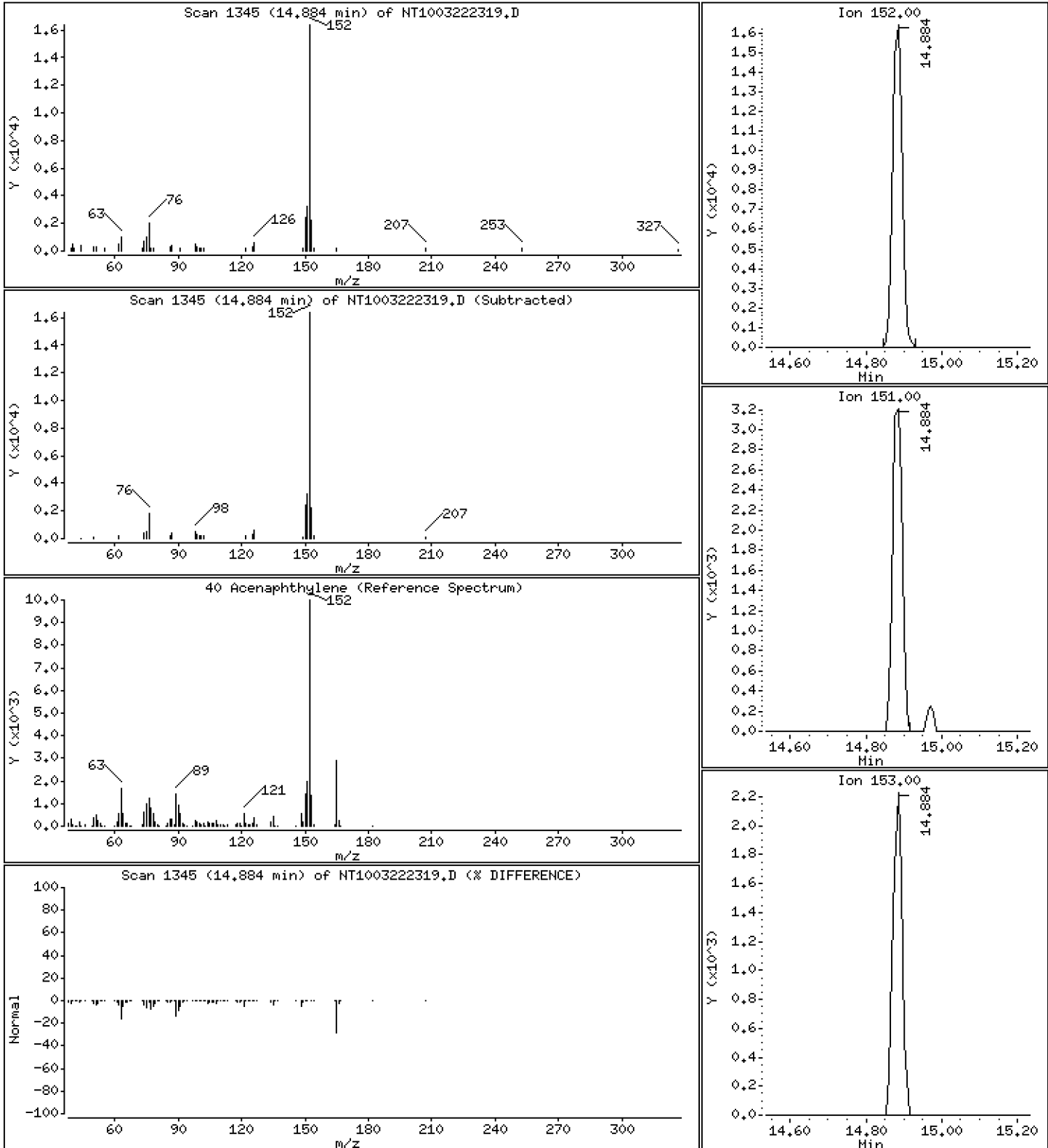
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2078 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

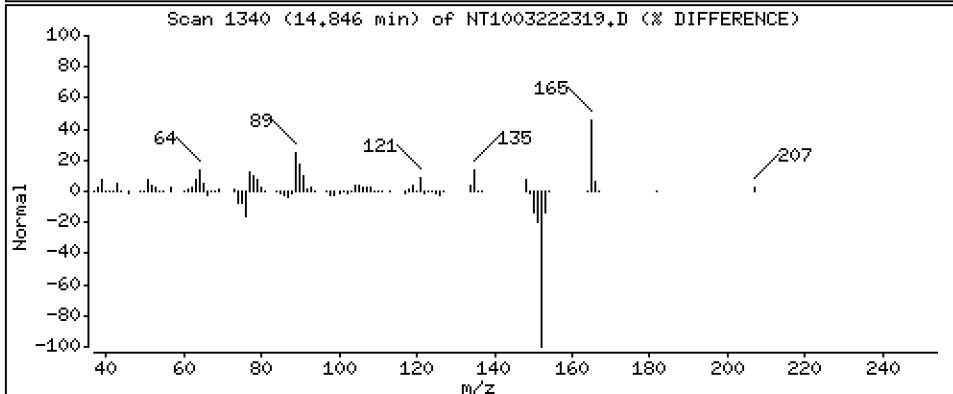
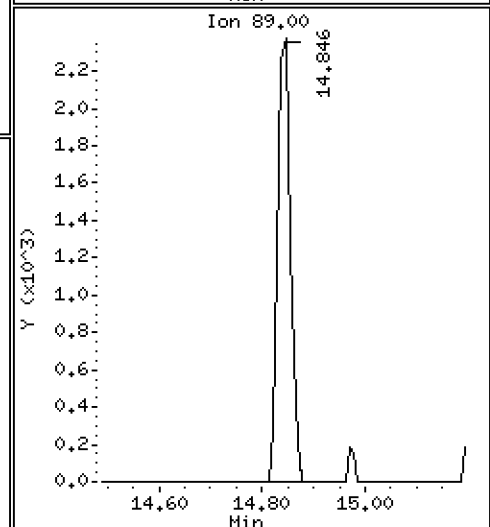
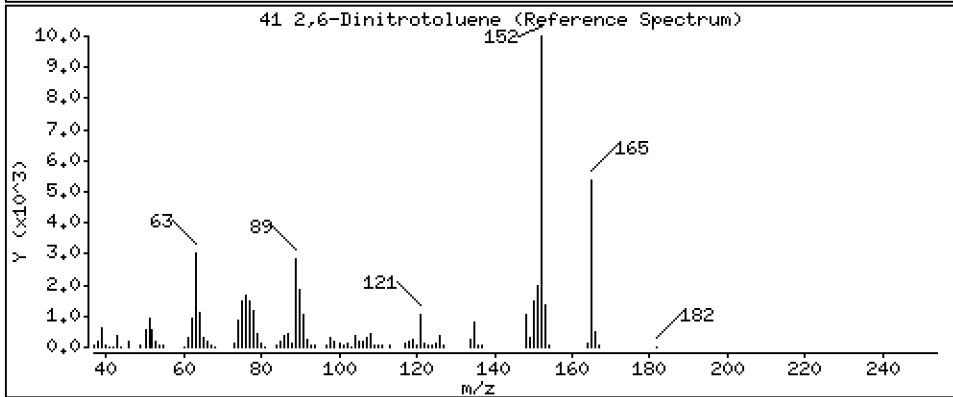
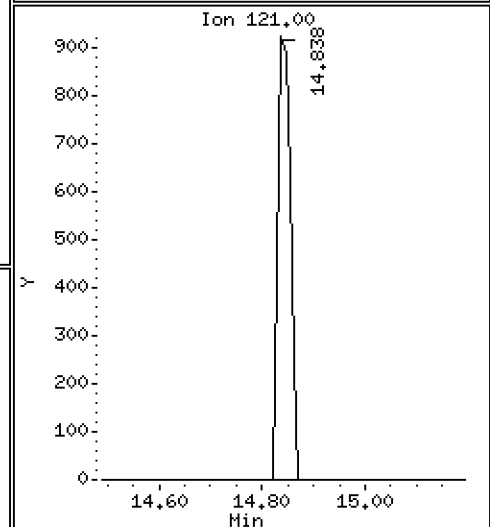
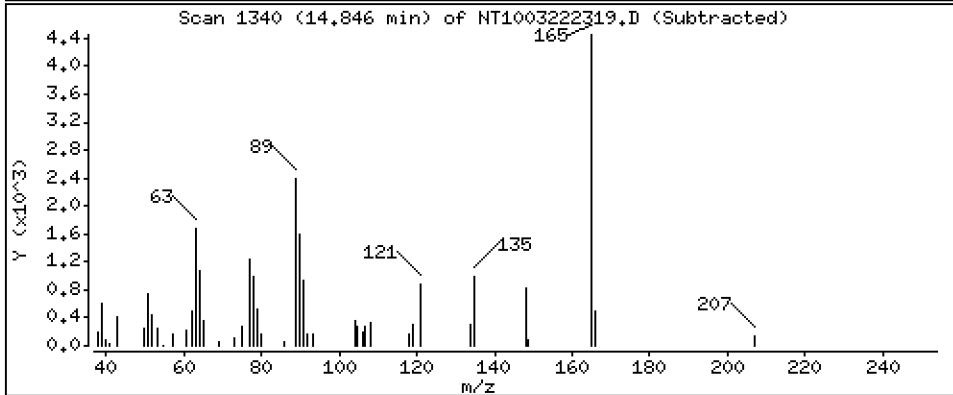
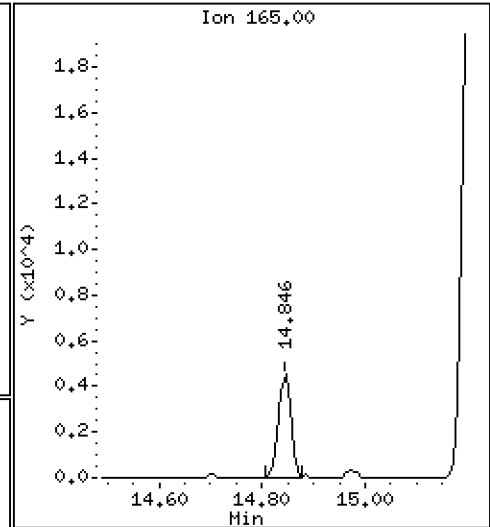
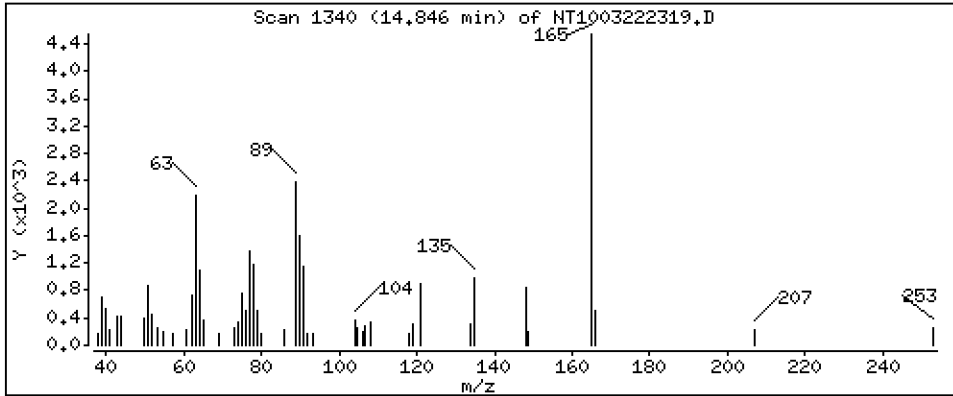
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 0.3889 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

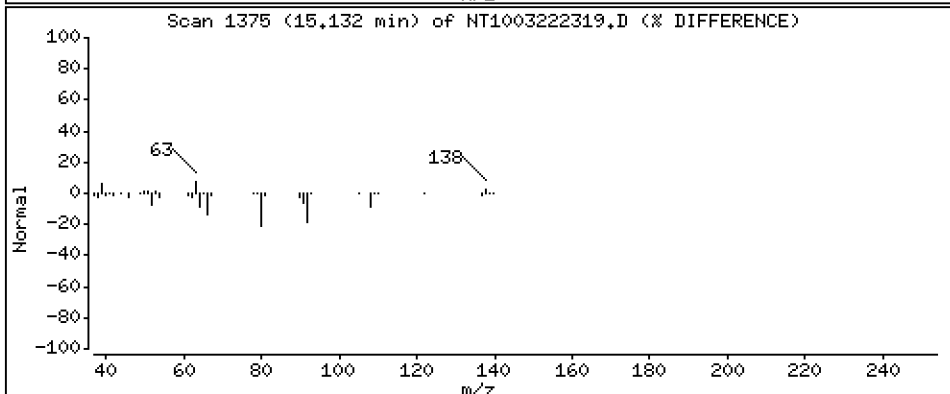
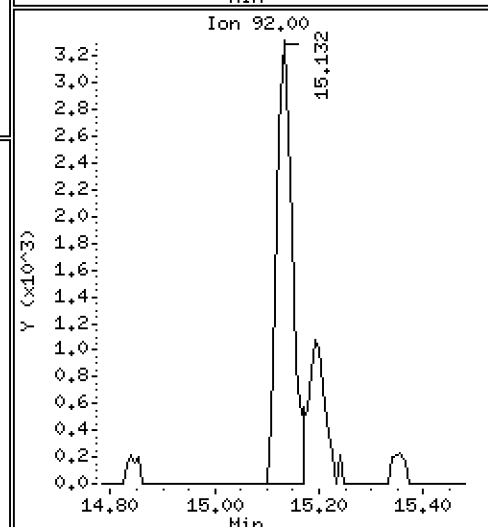
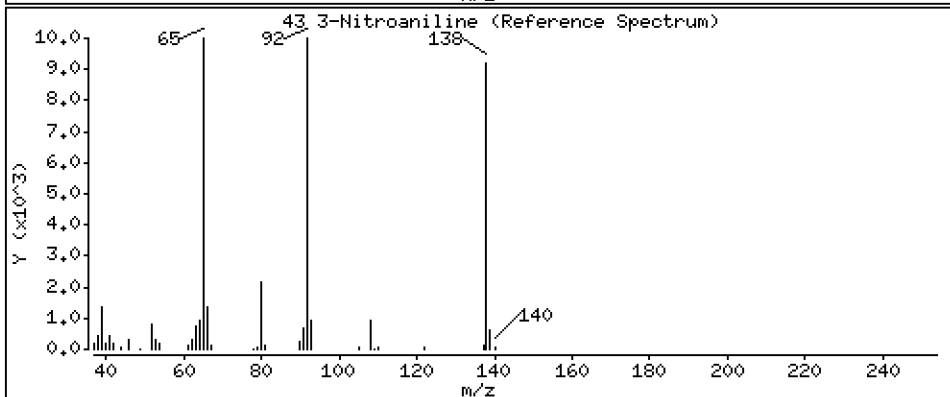
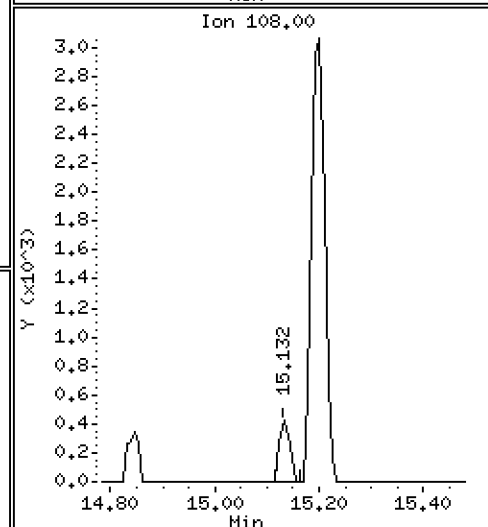
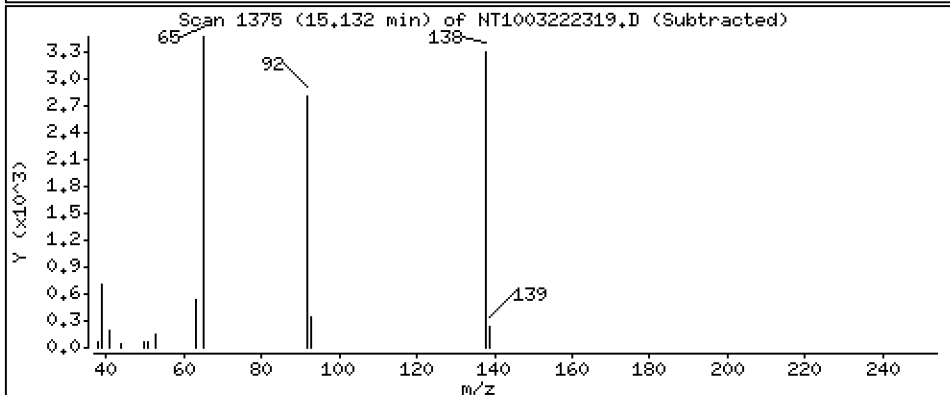
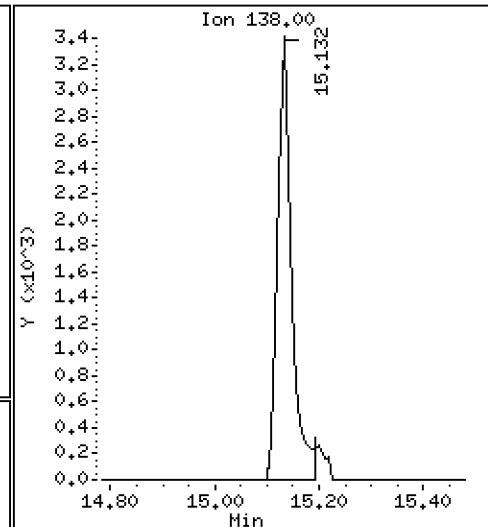
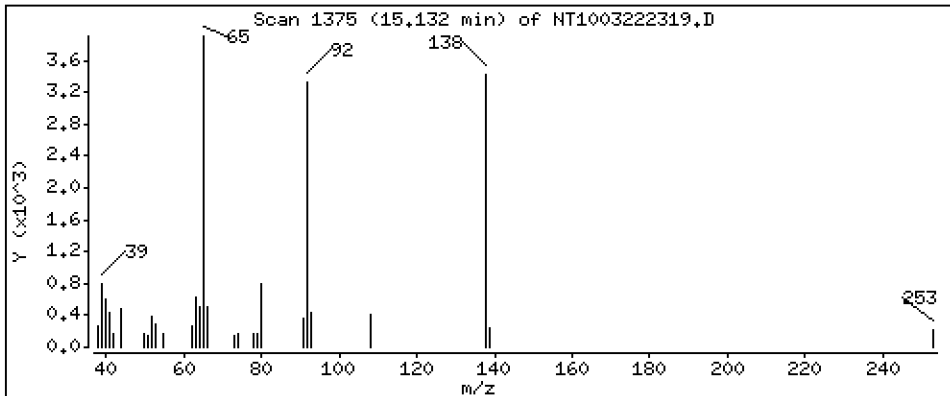
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,2954 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

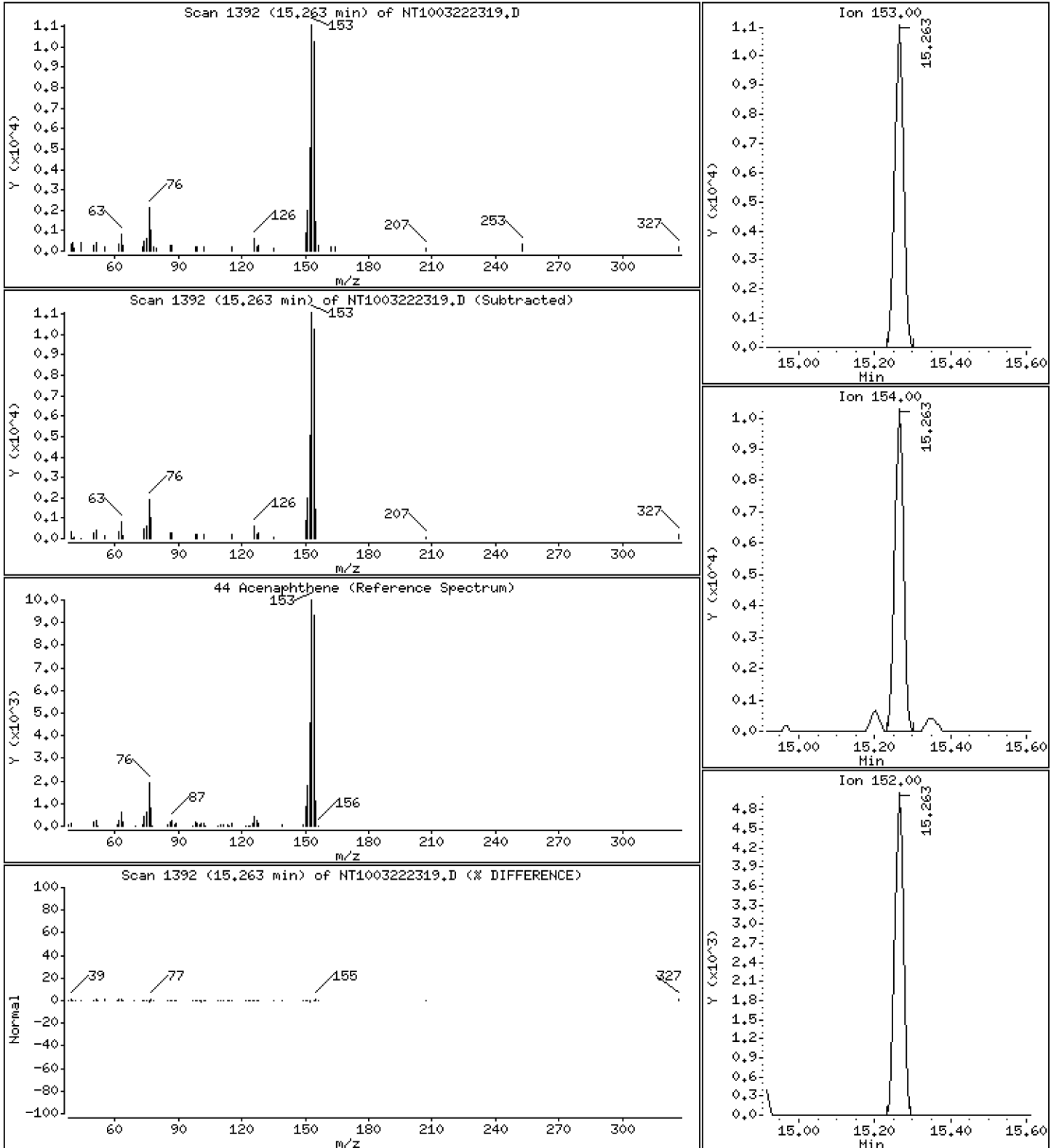
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 0.2064 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

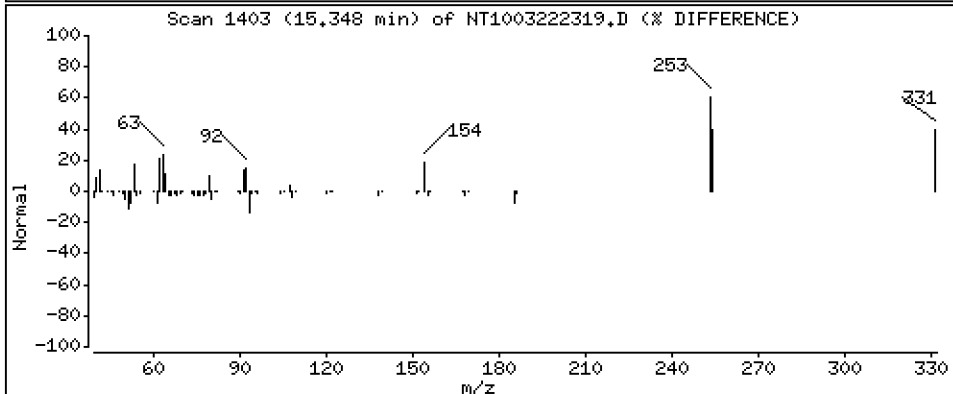
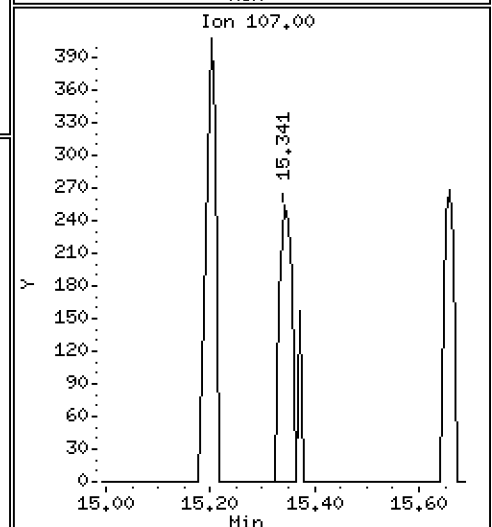
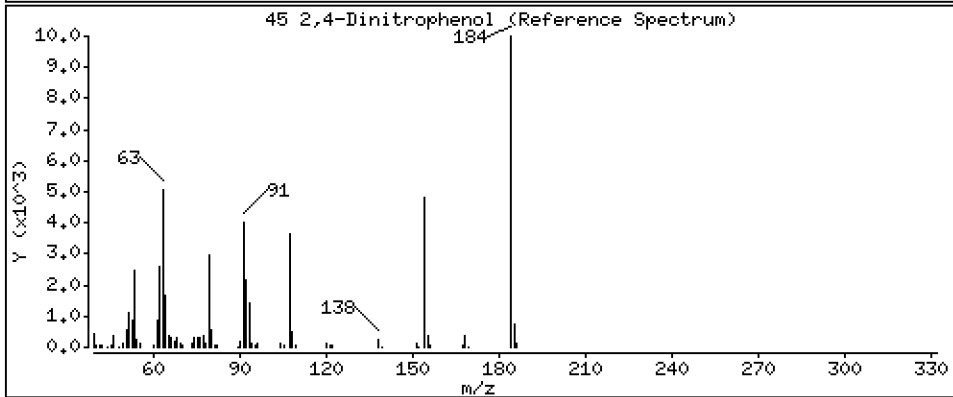
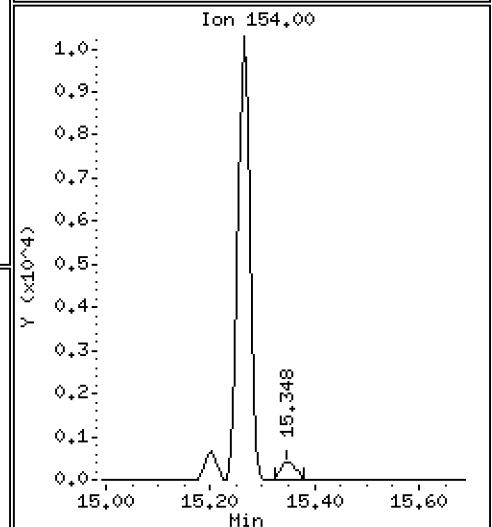
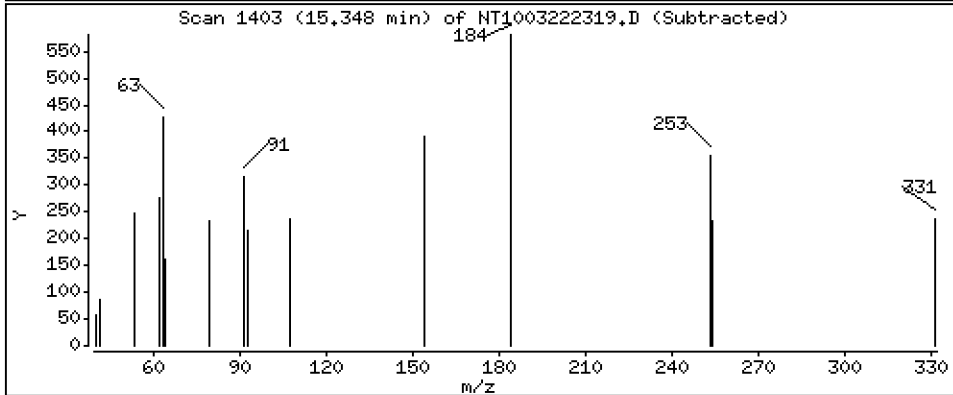
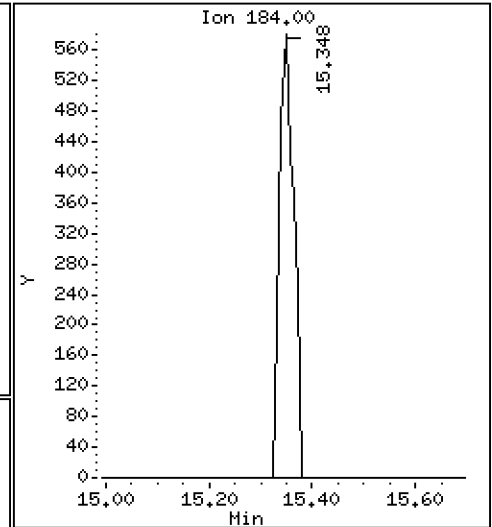
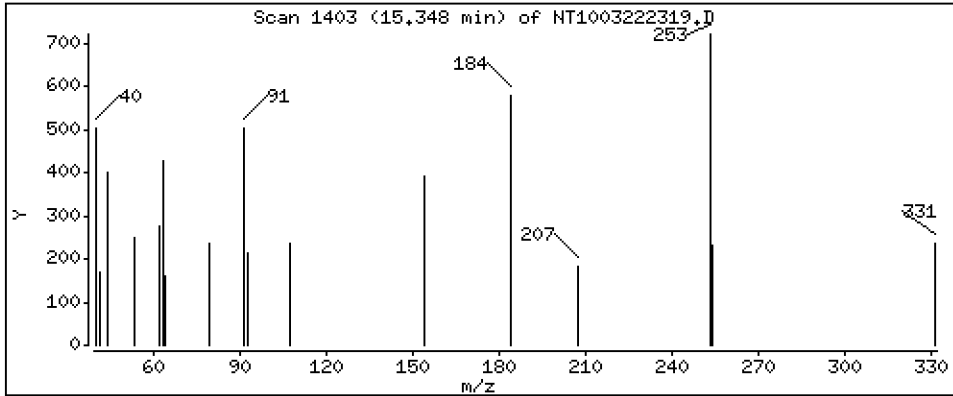
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,09523 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

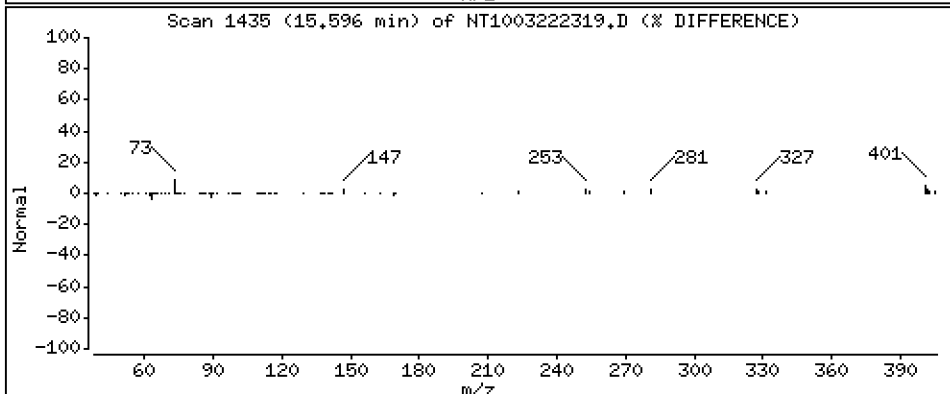
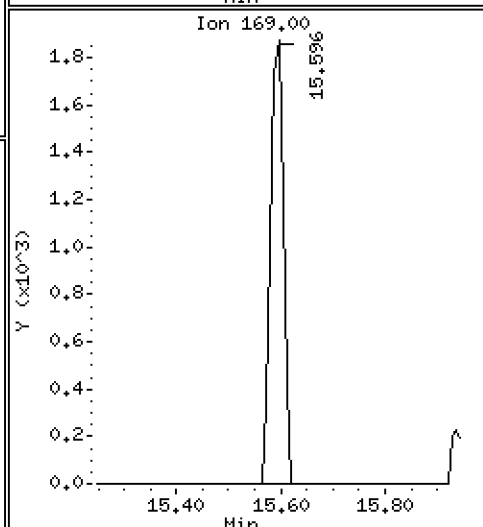
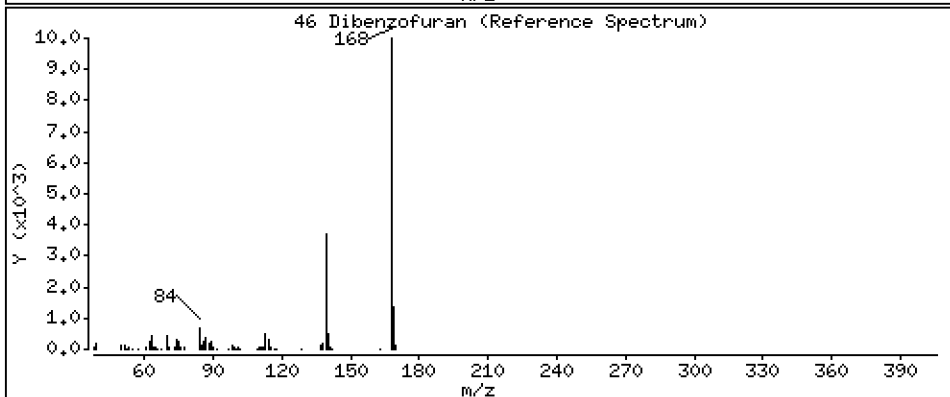
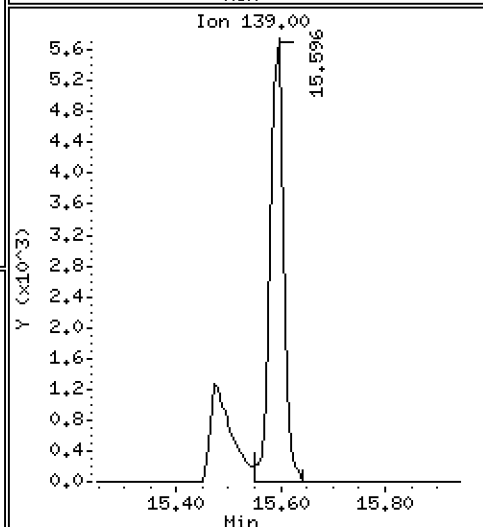
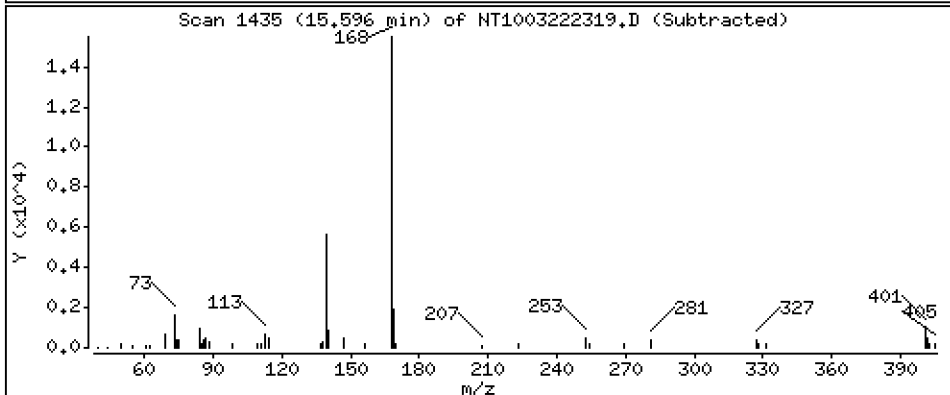
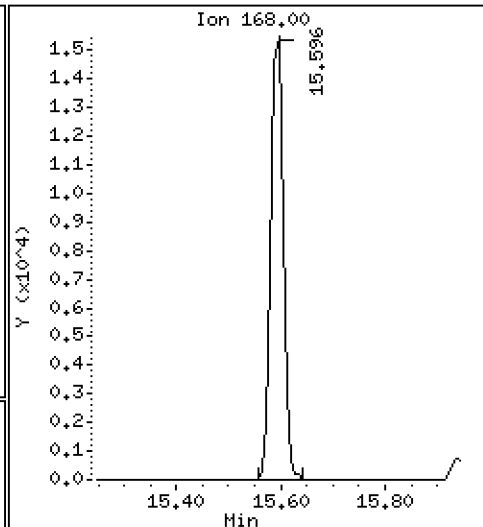
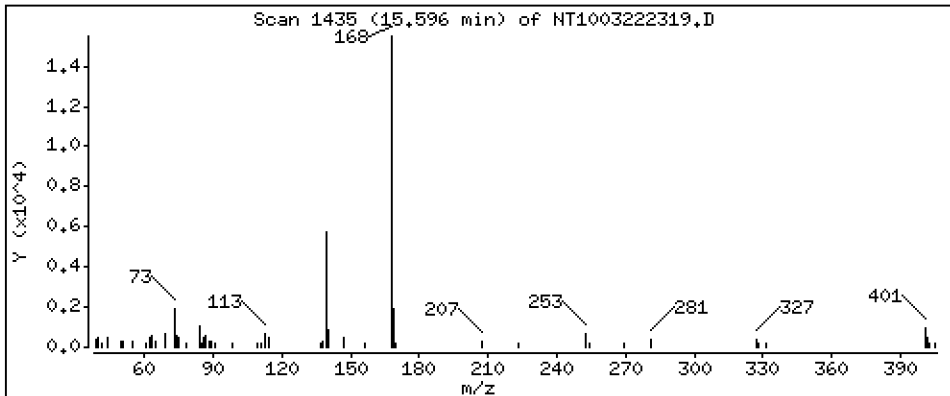
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,2045 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

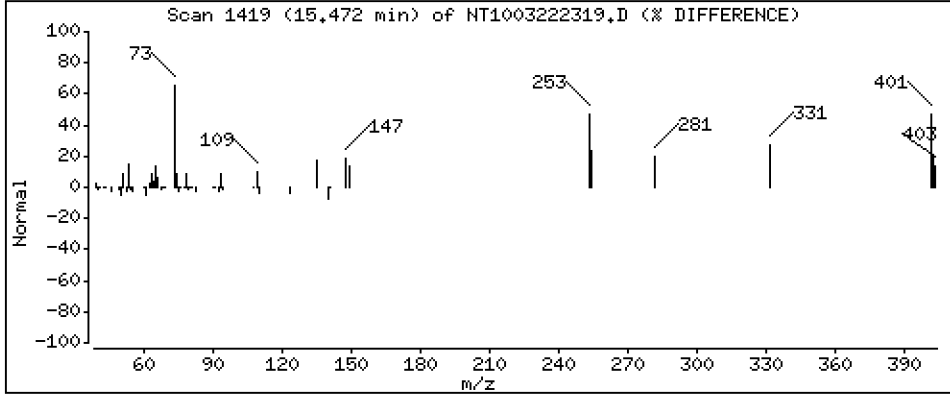
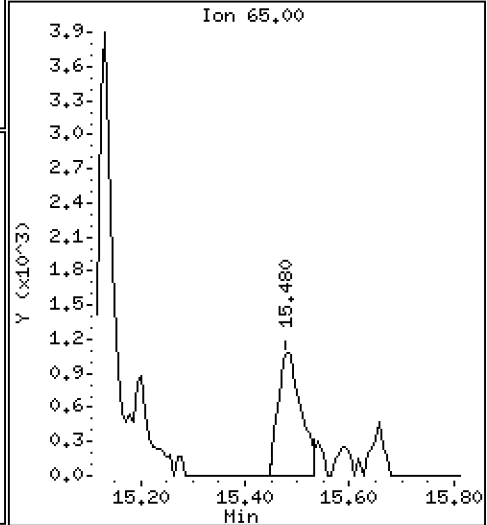
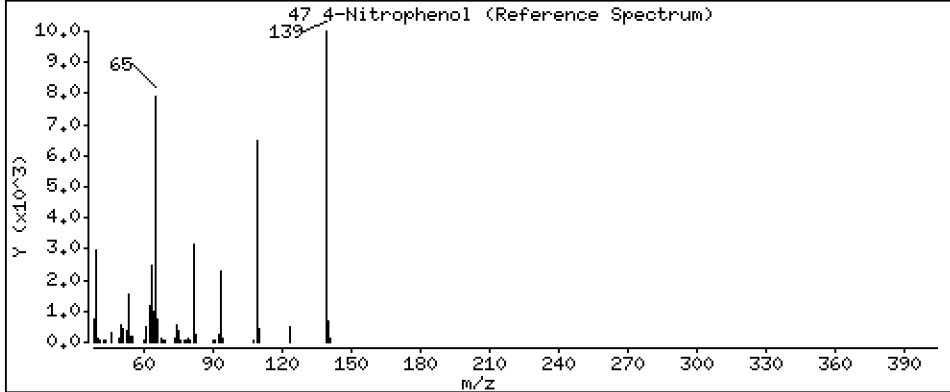
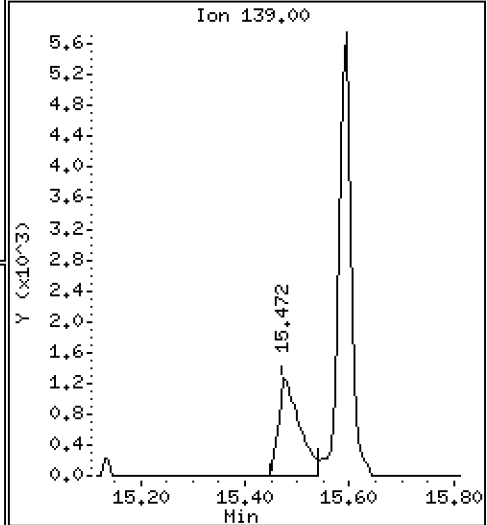
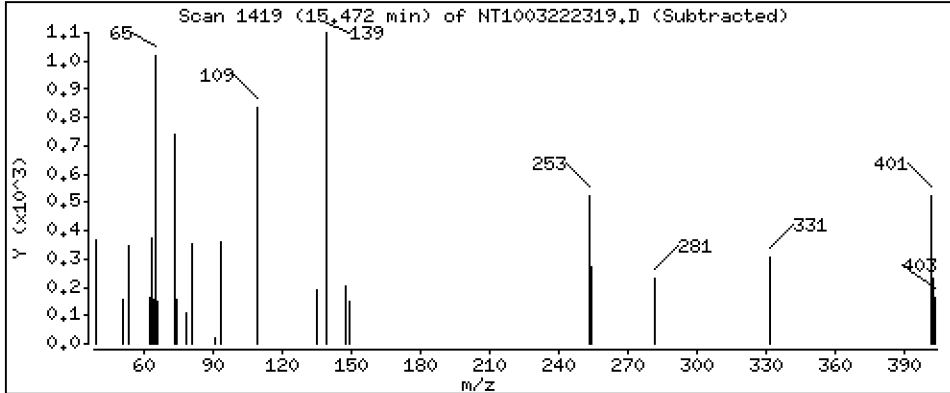
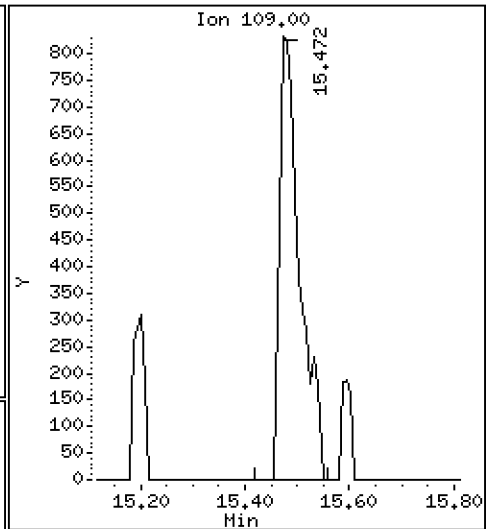
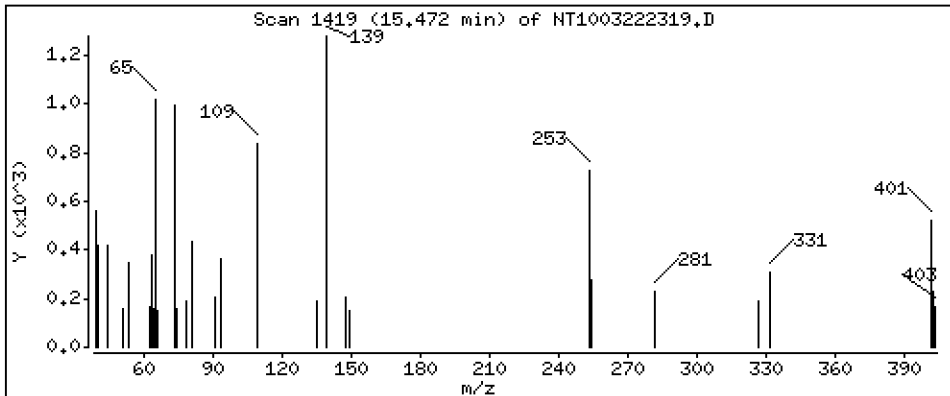
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

47 4-Nitrophenol

Concentration: 0.1763 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

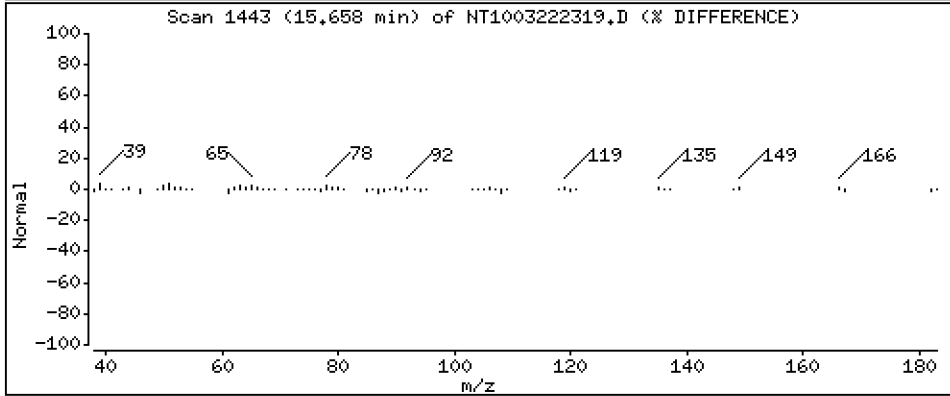
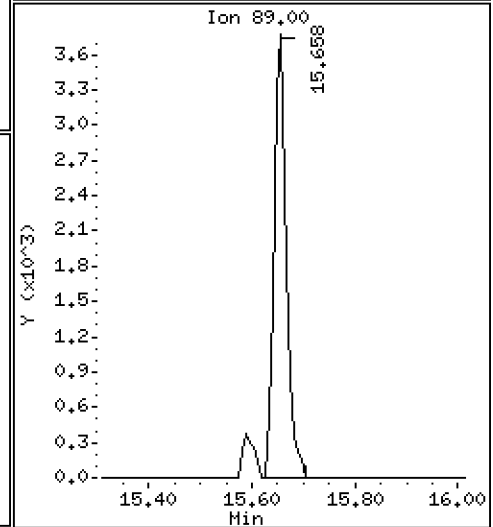
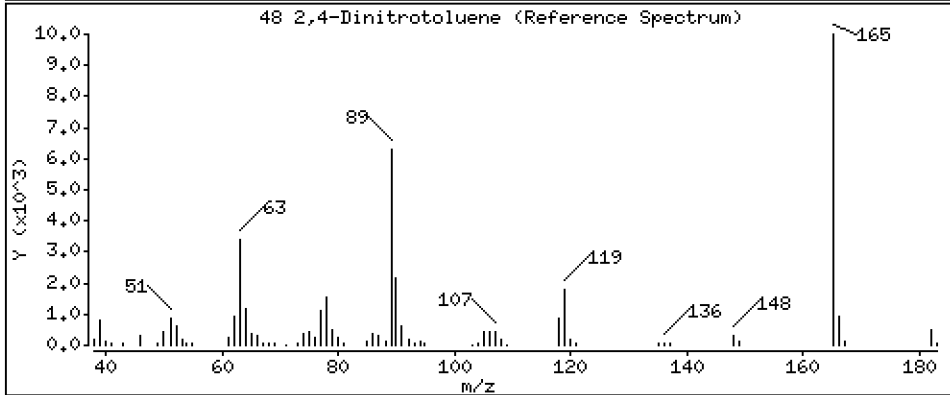
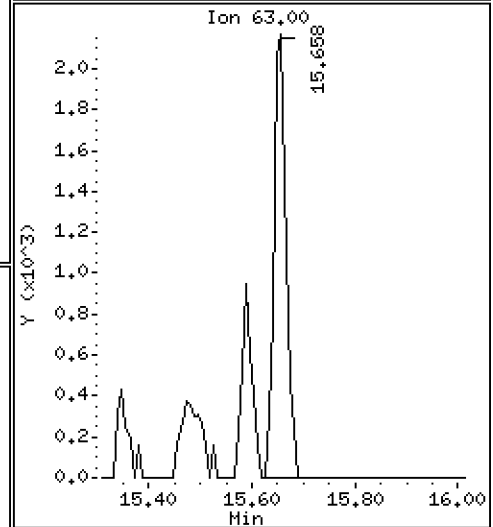
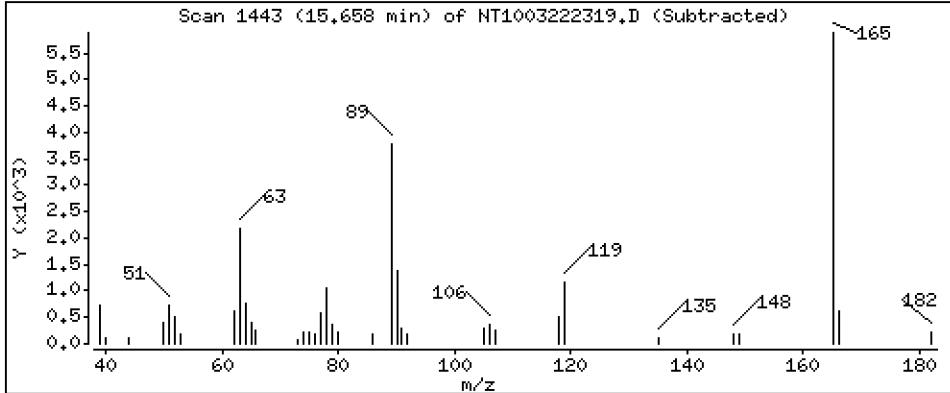
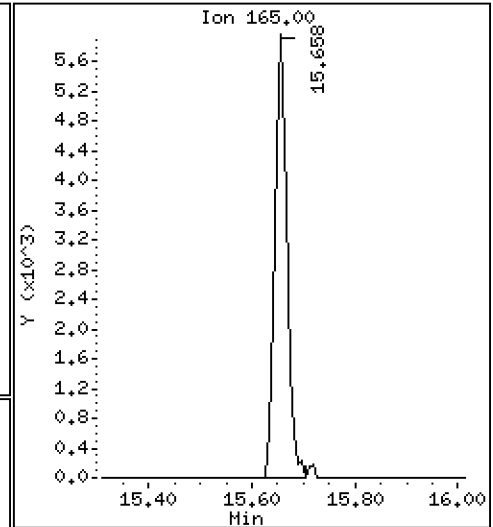
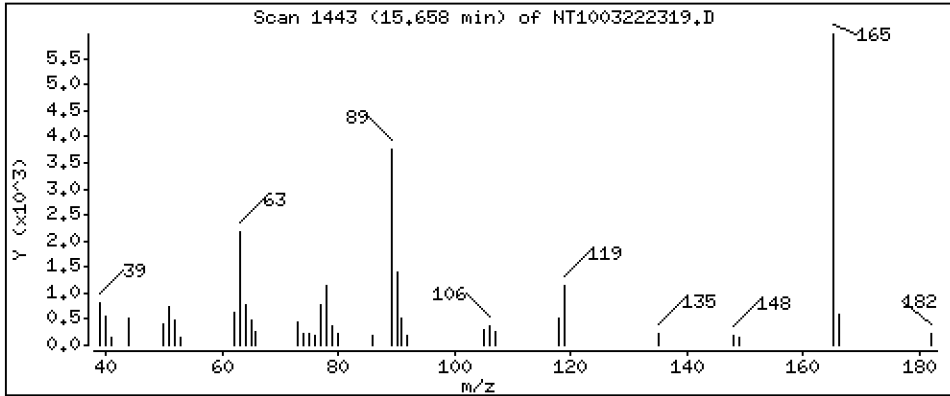
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 0,3239 ug/mL





Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

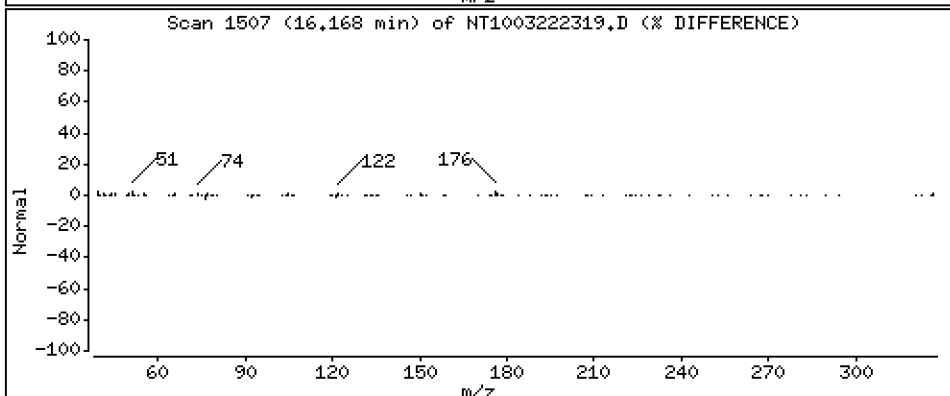
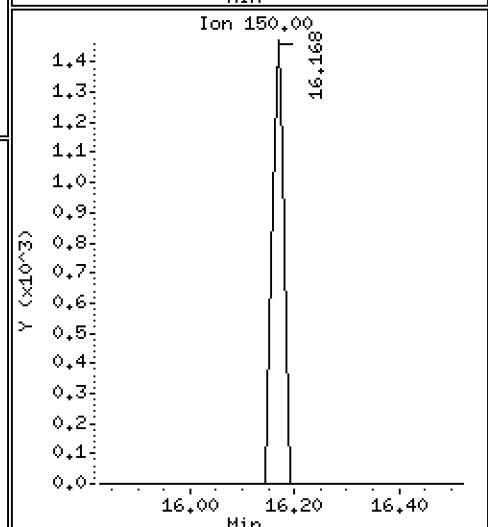
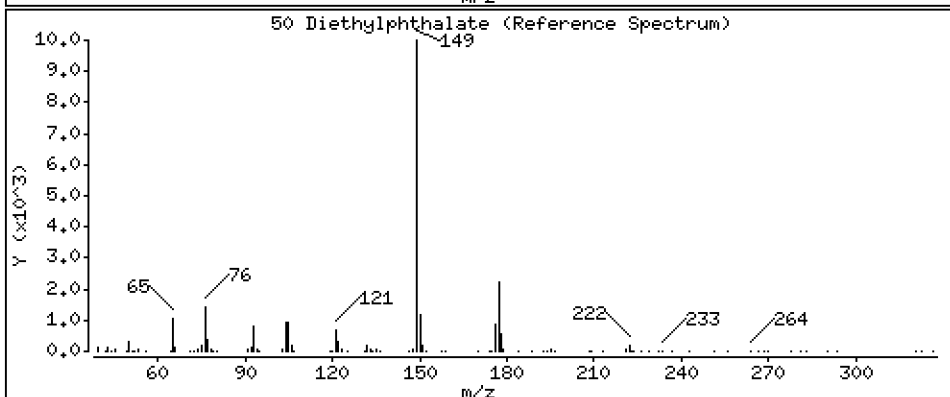
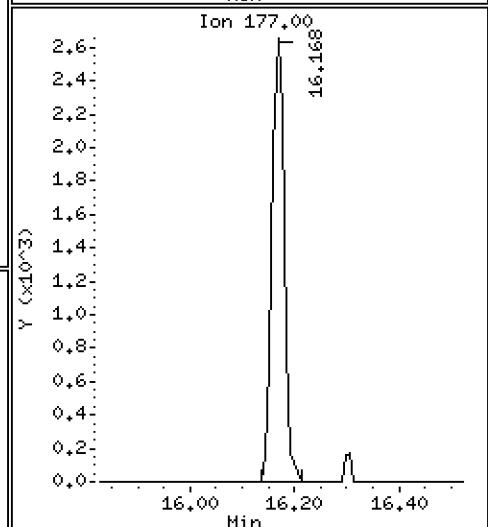
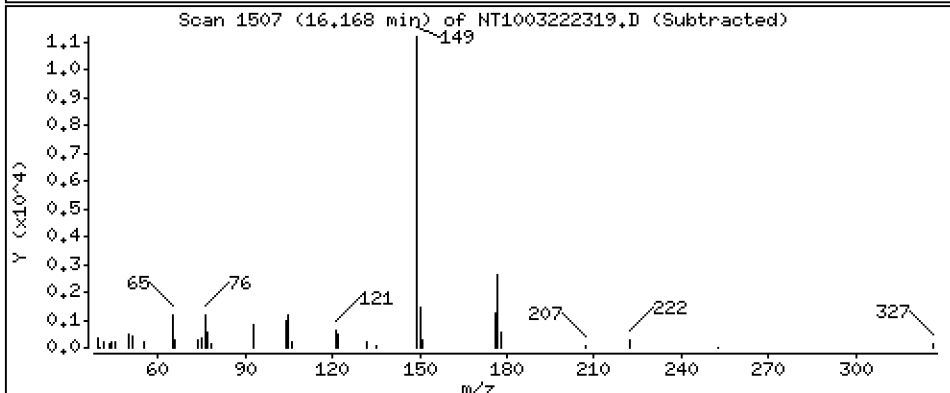
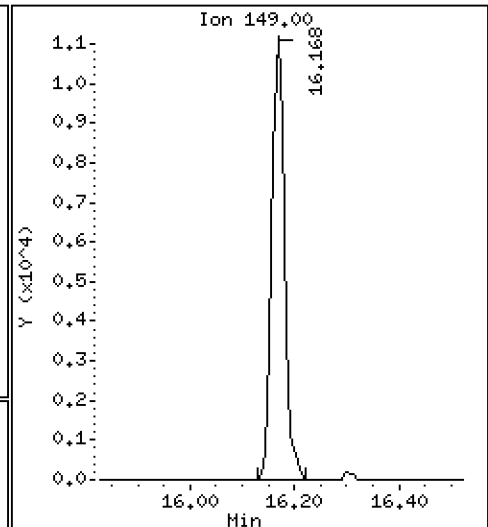
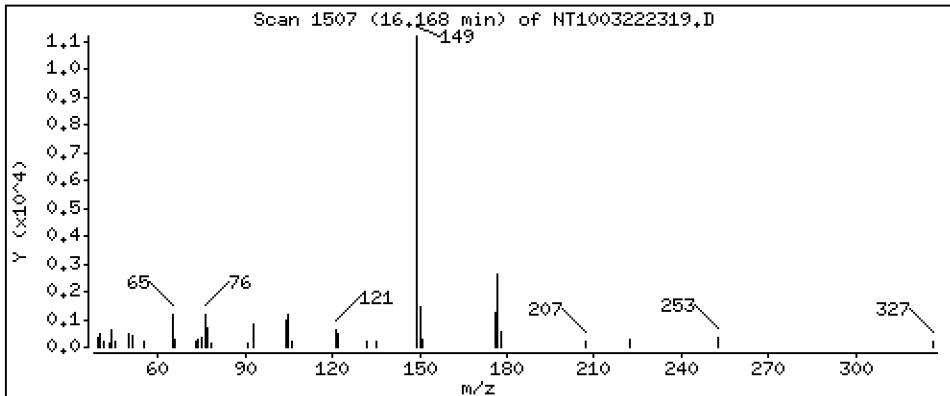
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2506 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

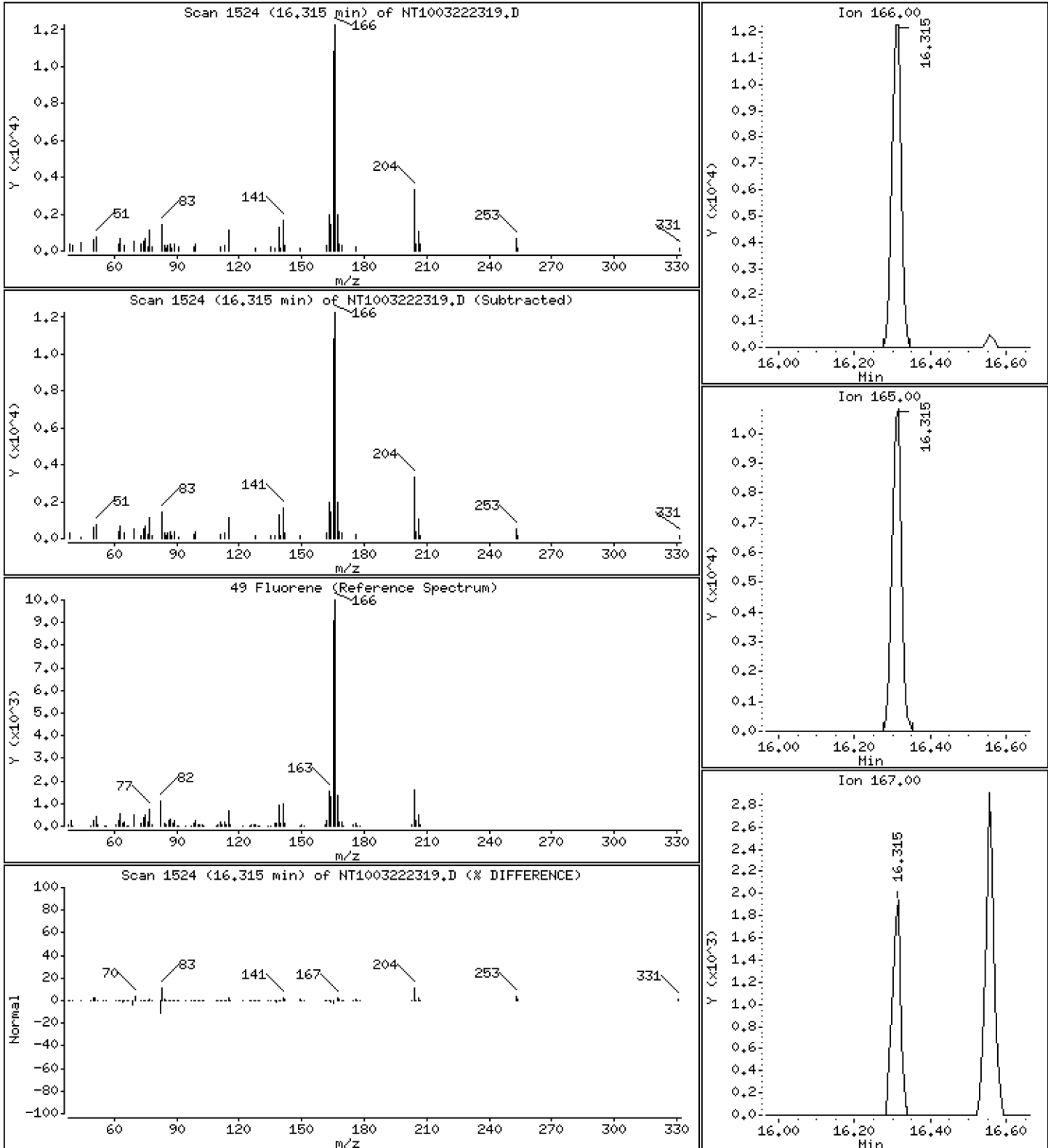
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 0.2117 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

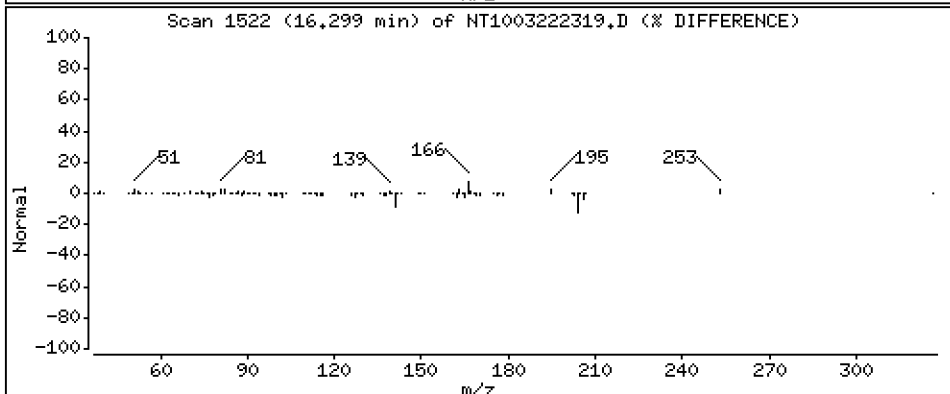
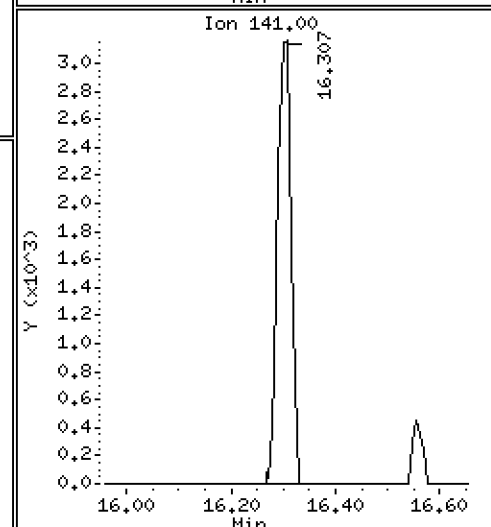
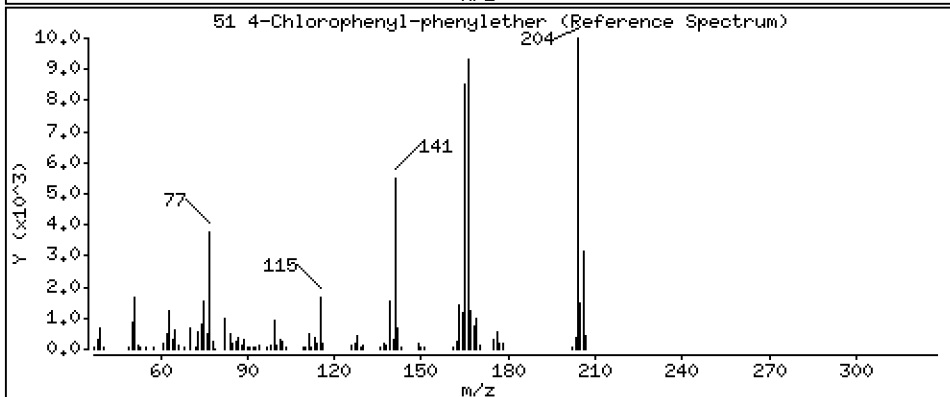
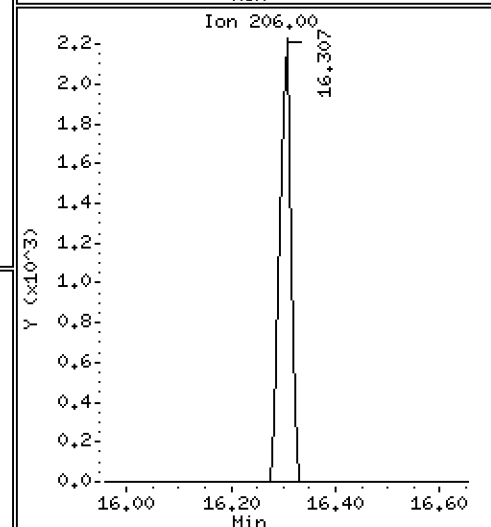
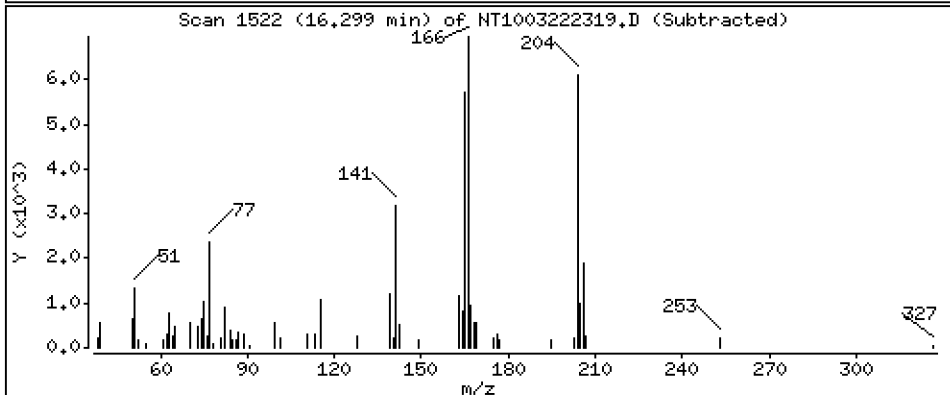
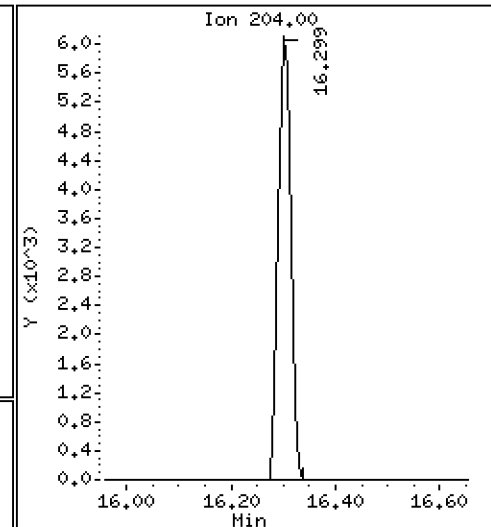
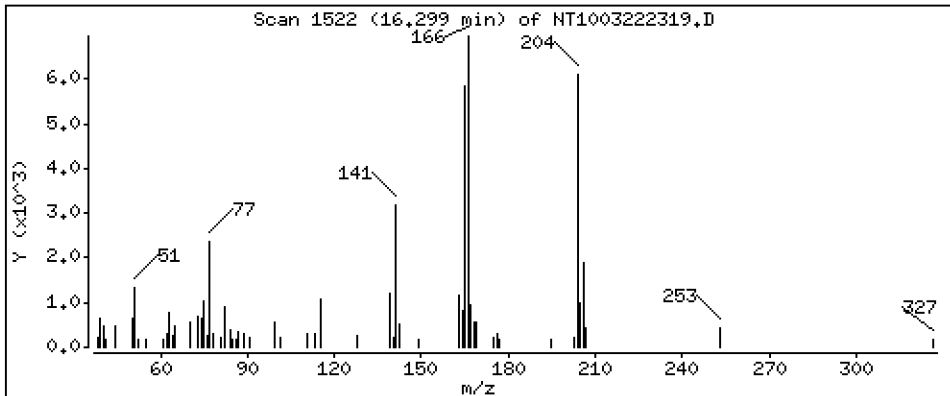
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,2194 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

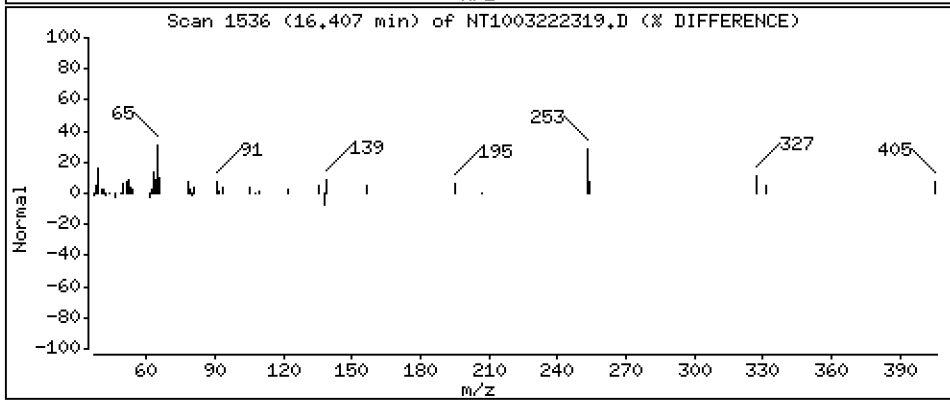
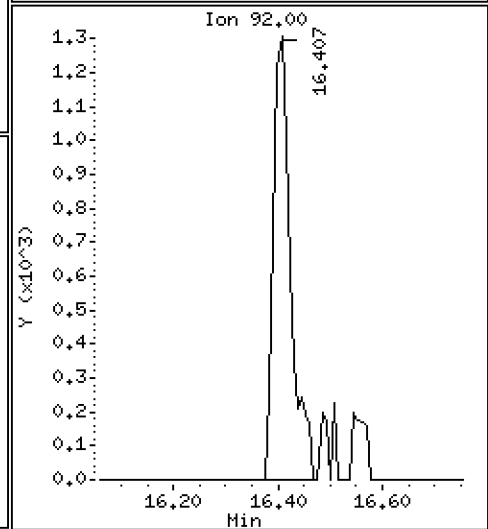
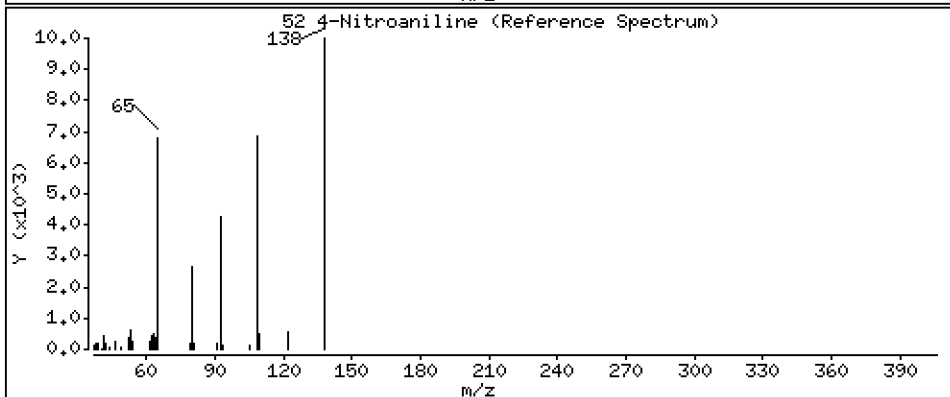
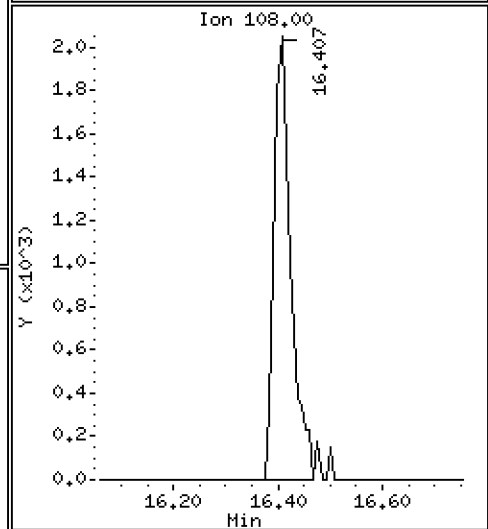
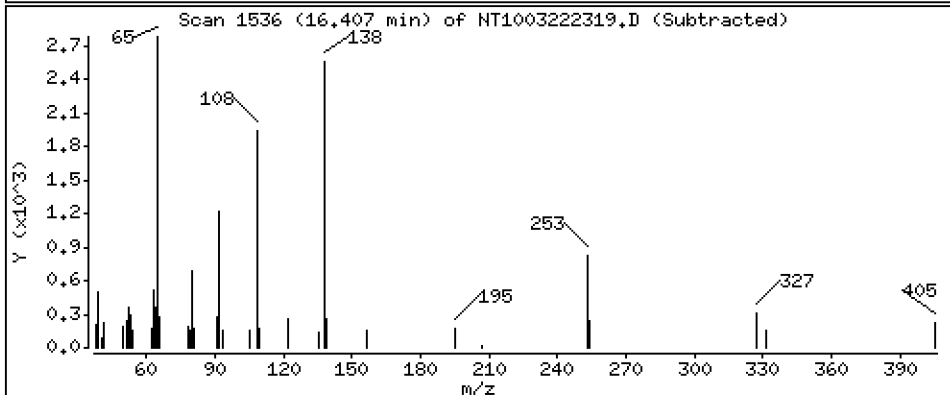
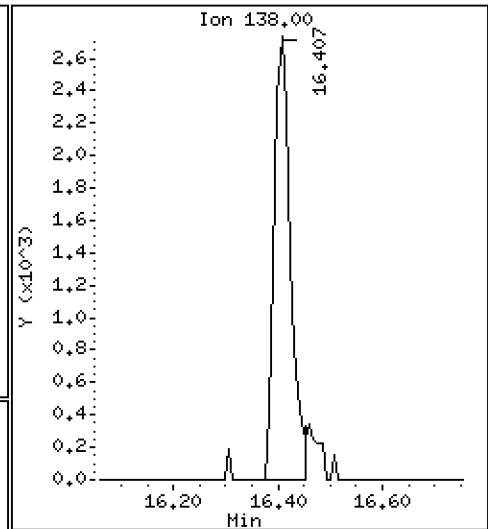
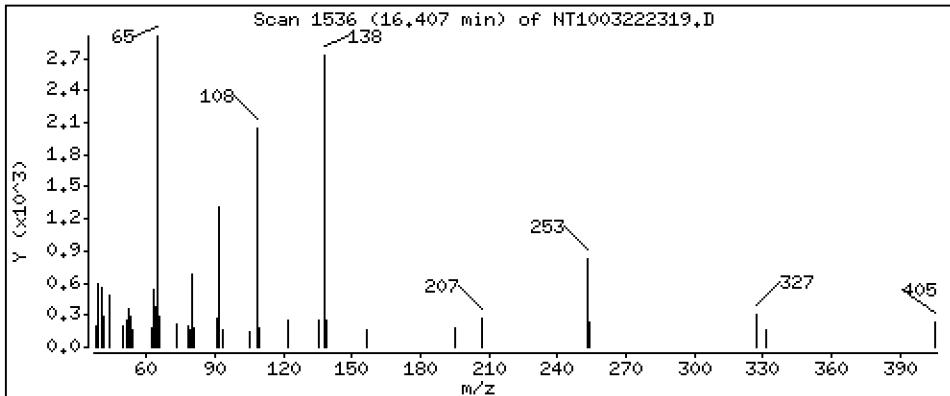
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

52 4-Nitroaniline

Concentration: 0.3071 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

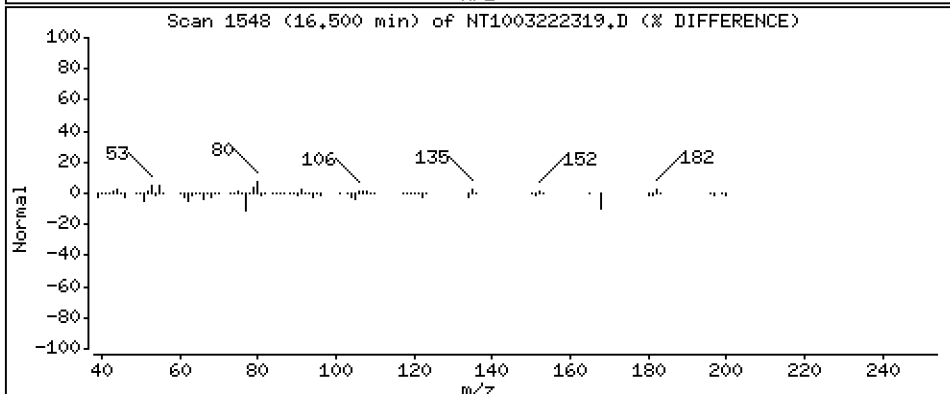
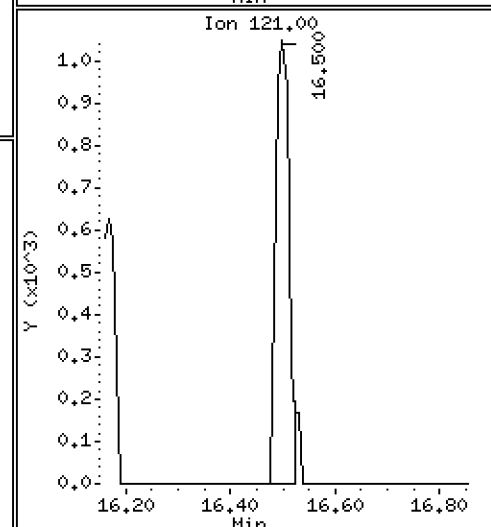
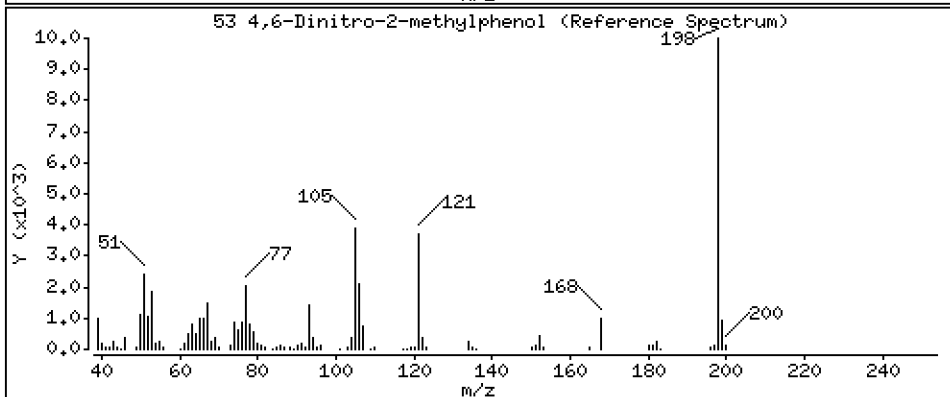
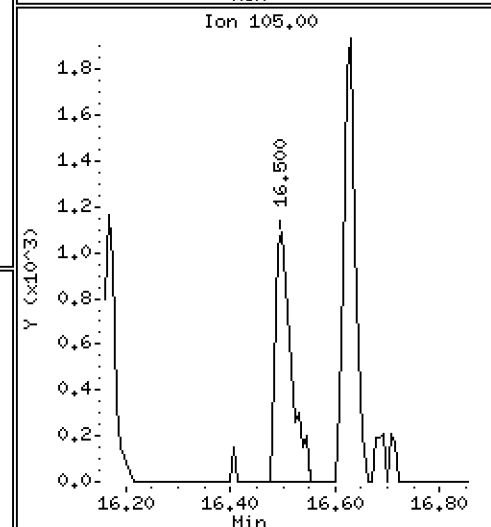
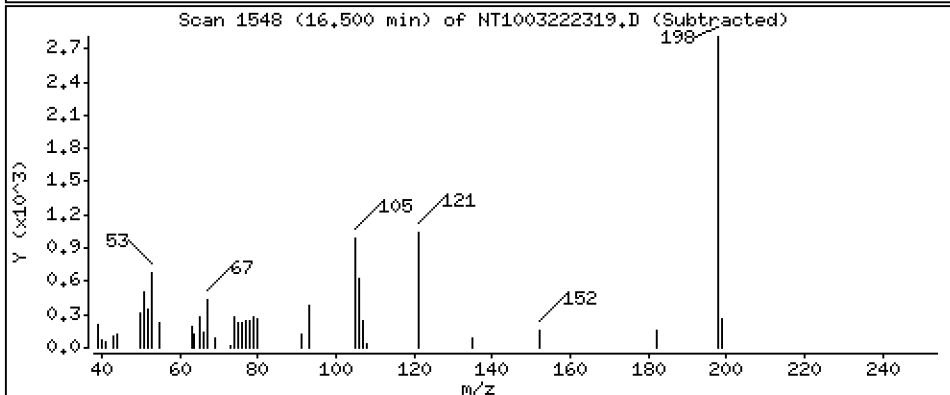
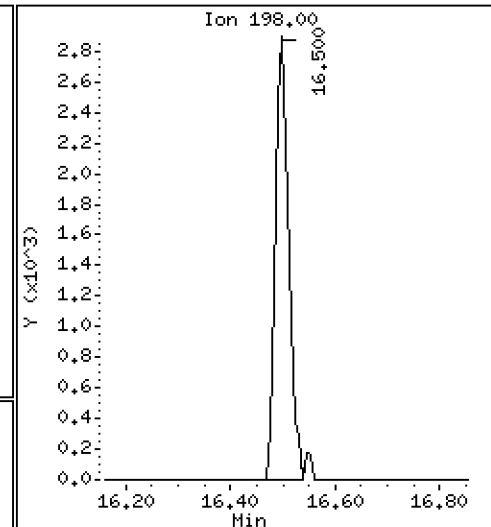
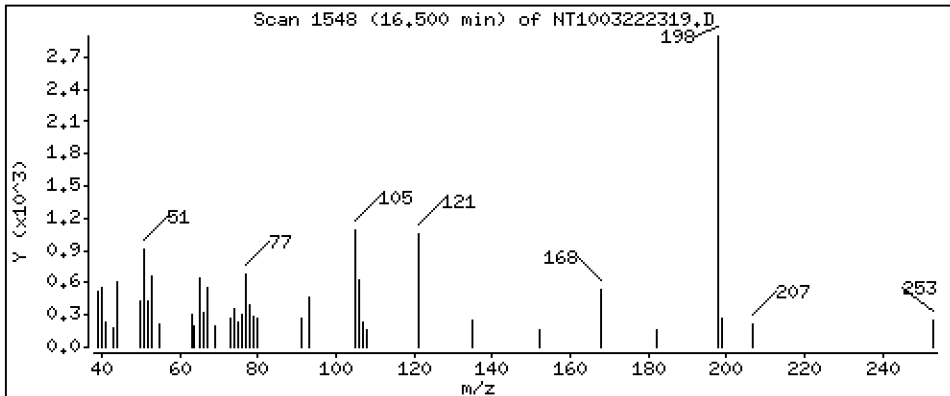
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,3306 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

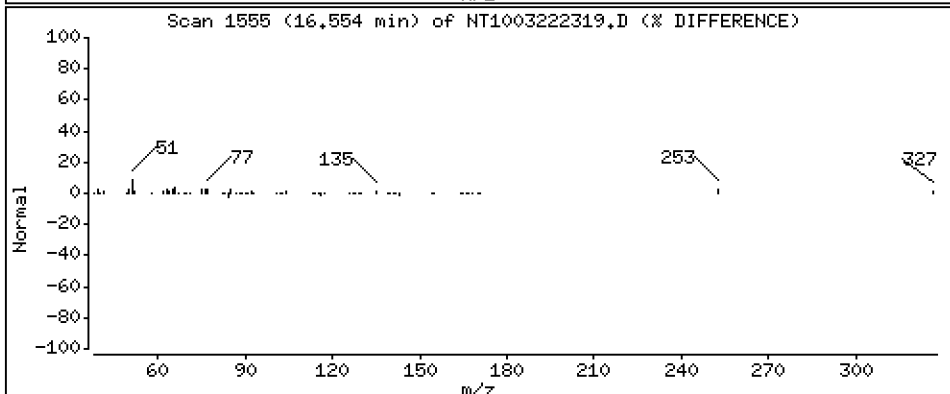
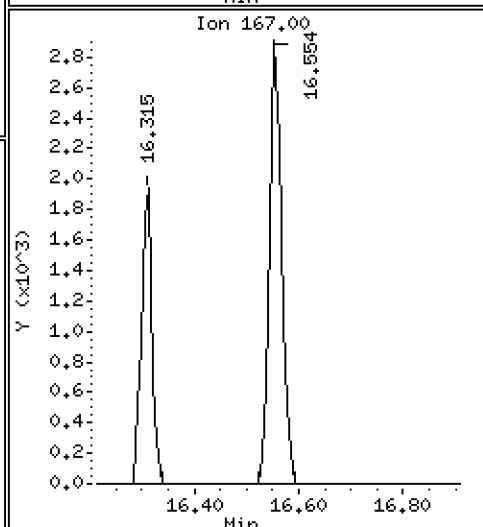
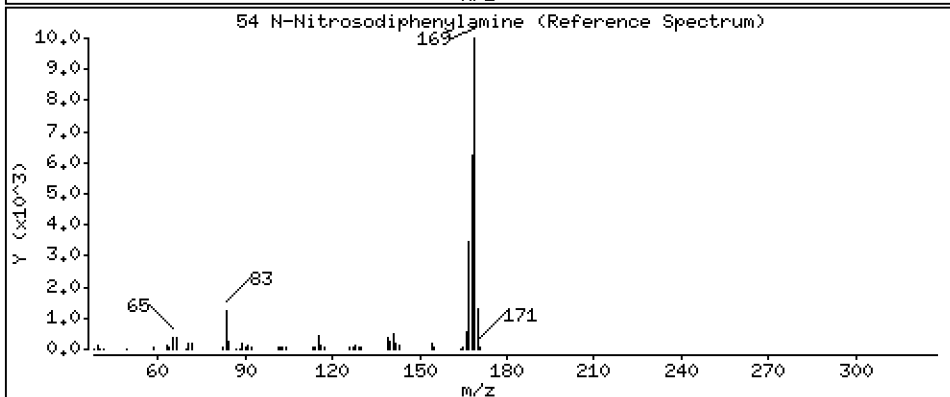
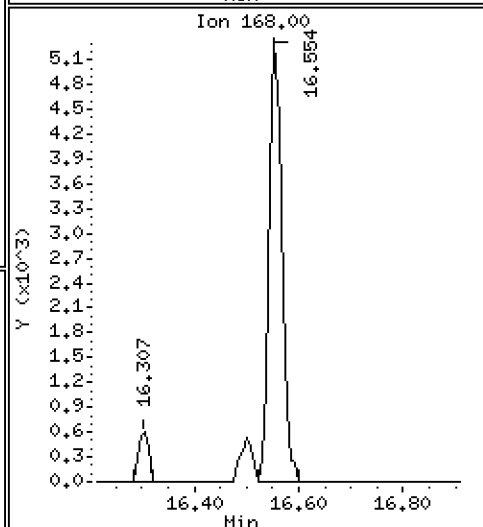
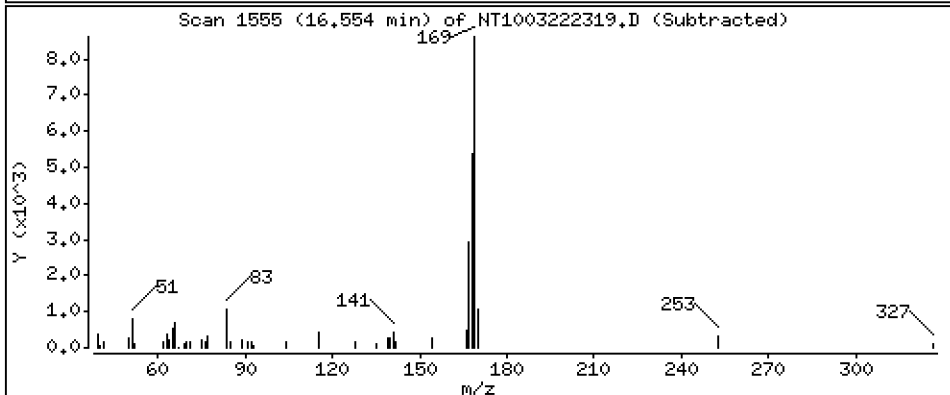
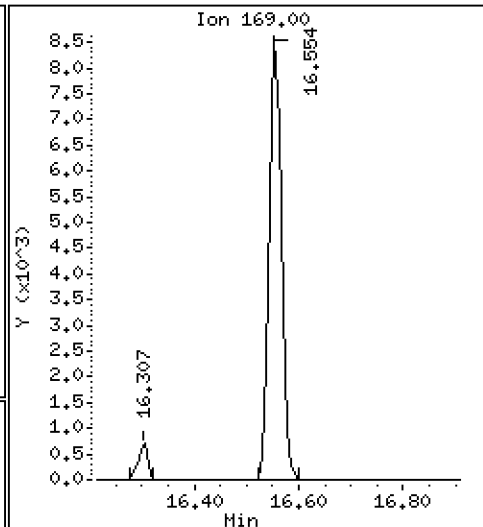
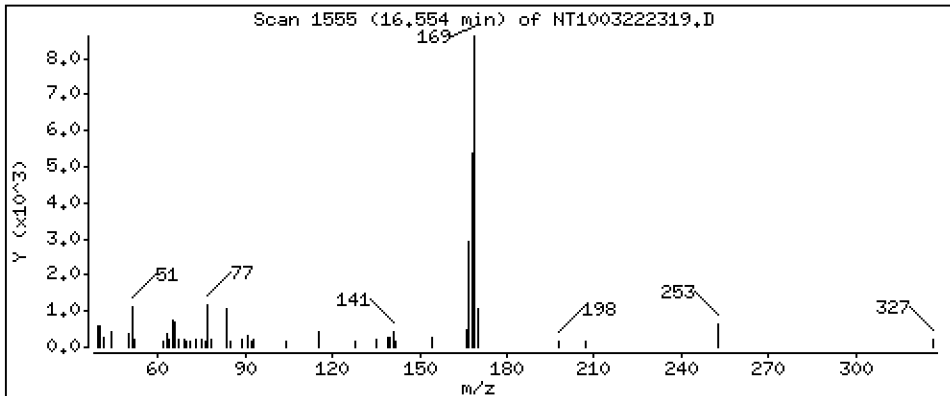
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 0.2033 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

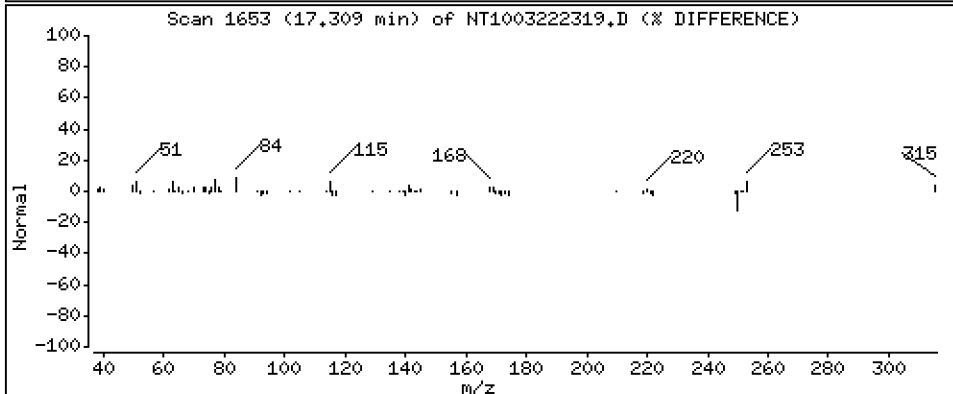
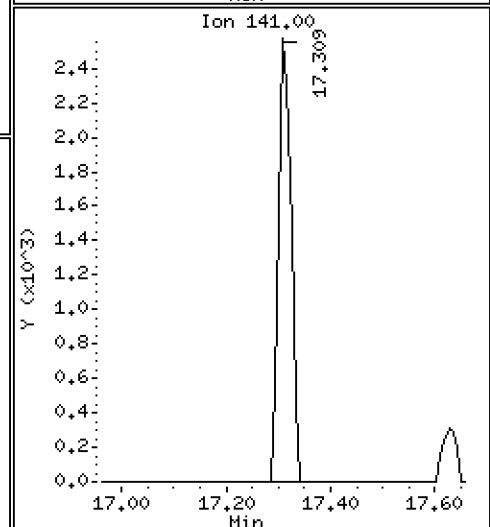
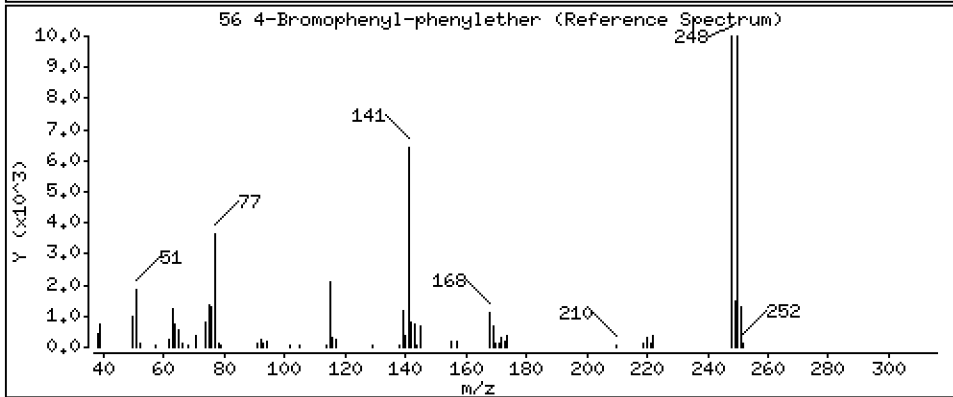
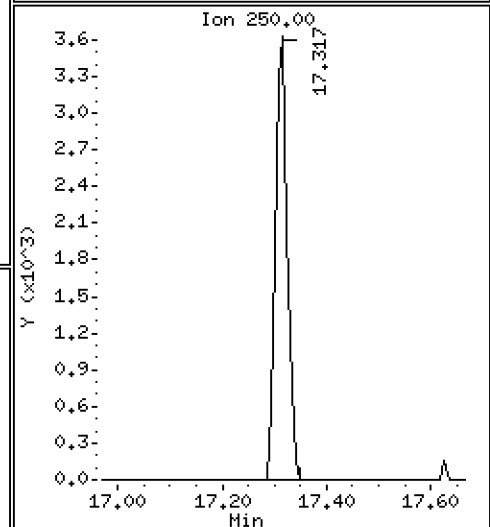
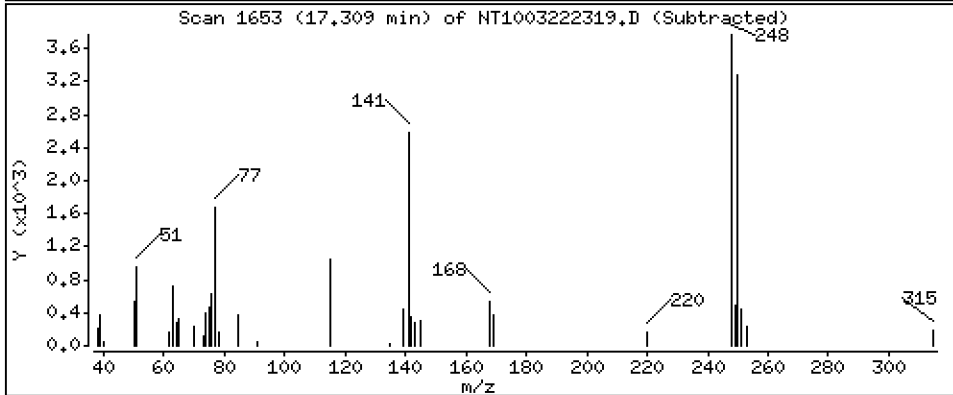
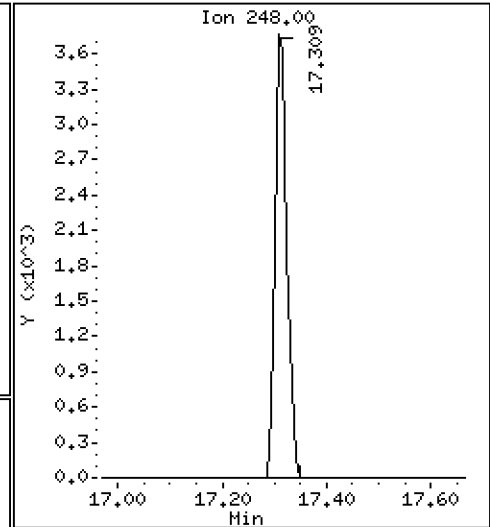
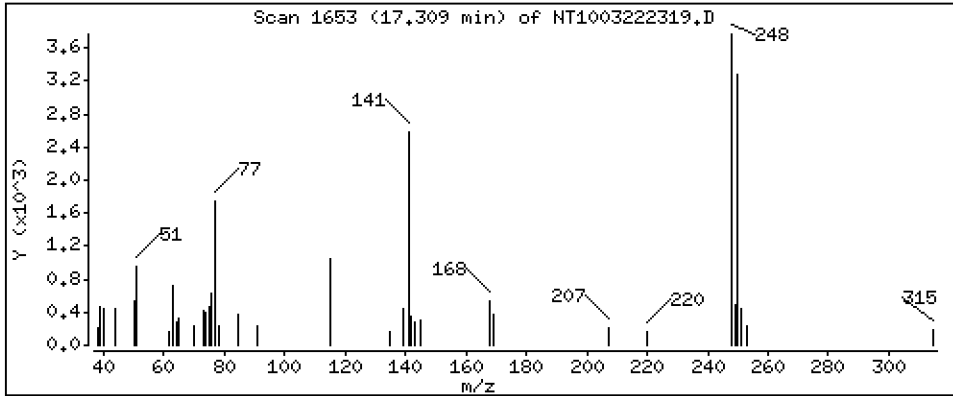
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,2181 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

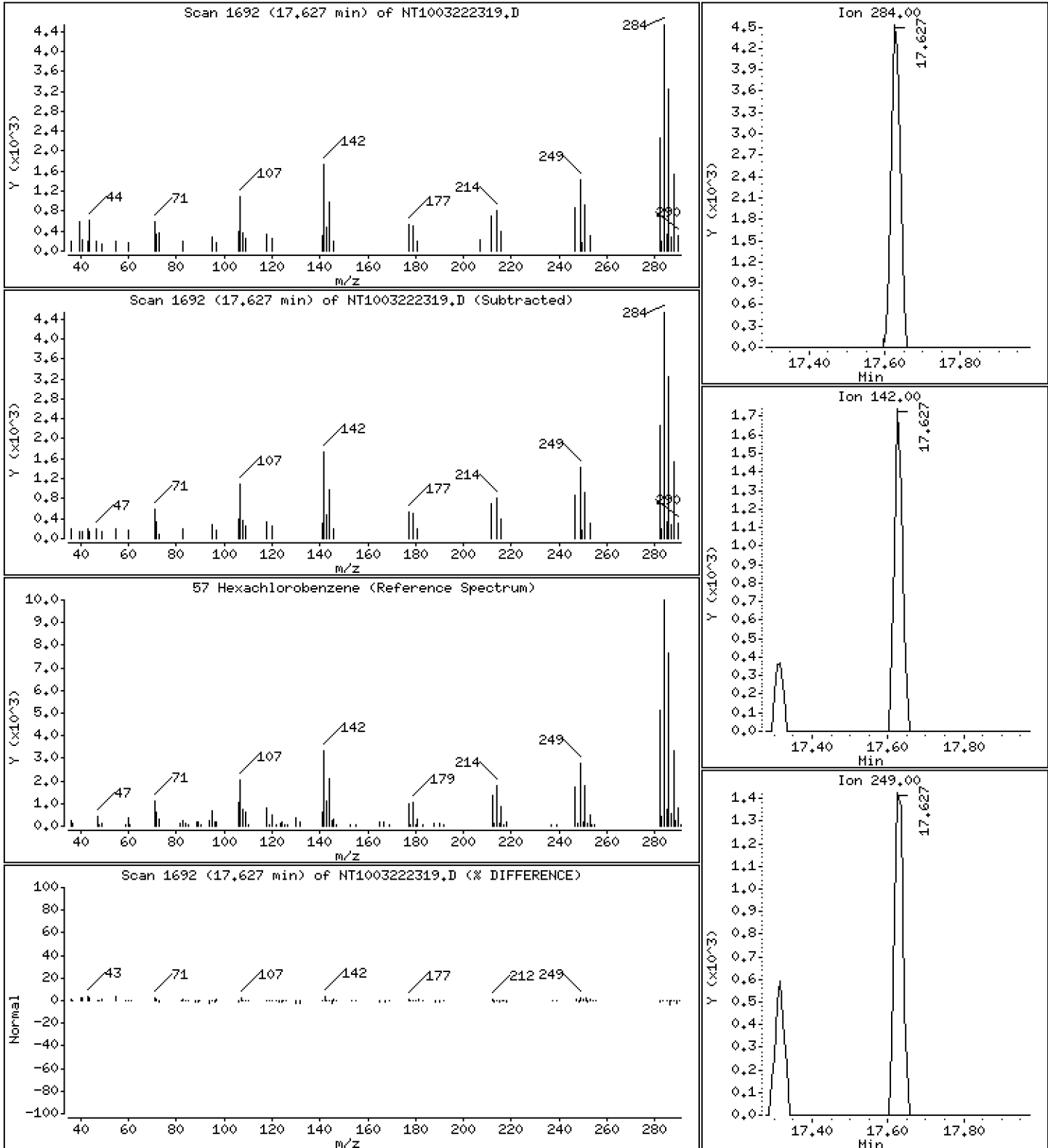
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,2574 ug/mL





Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

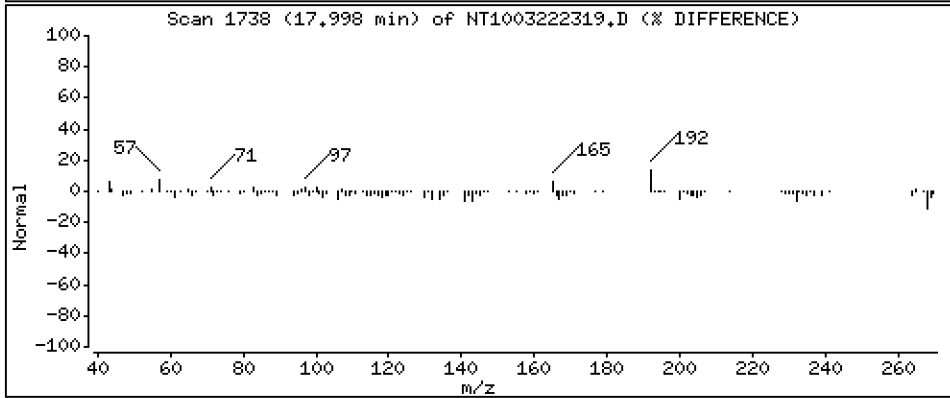
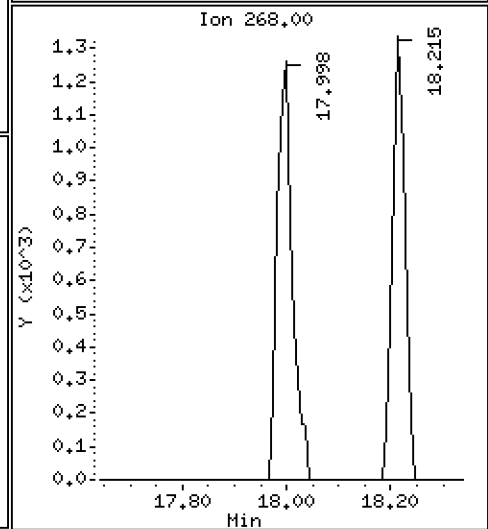
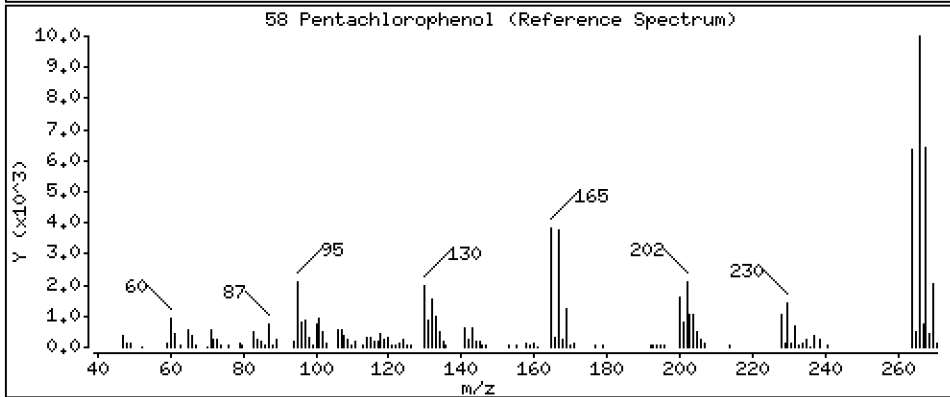
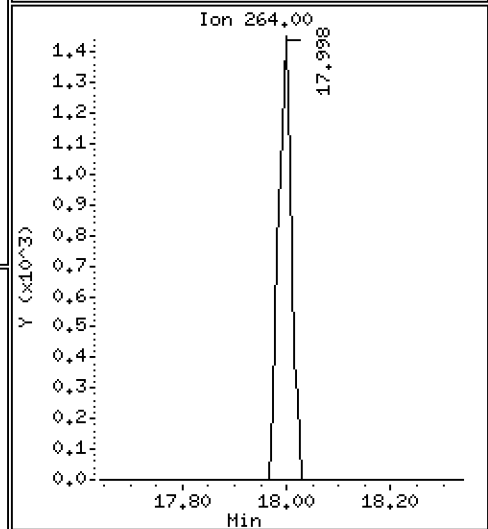
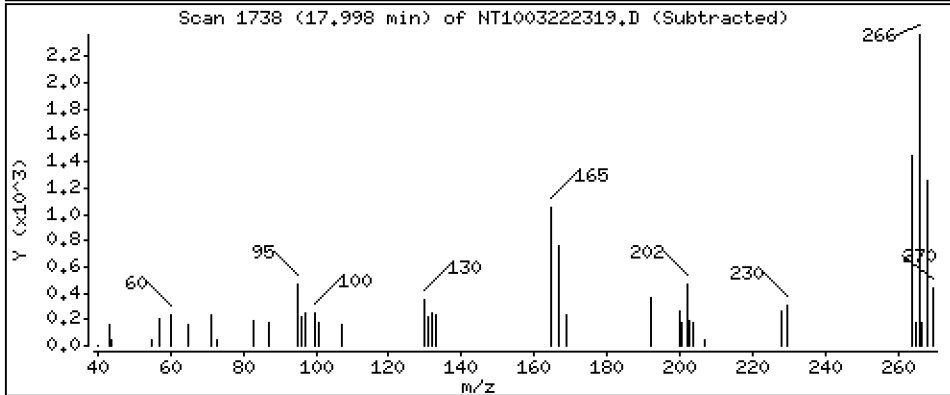
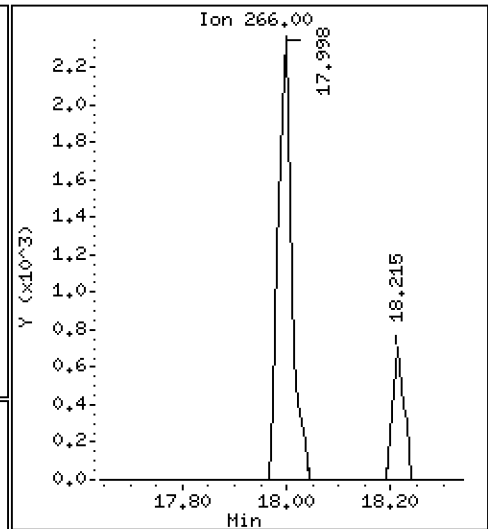
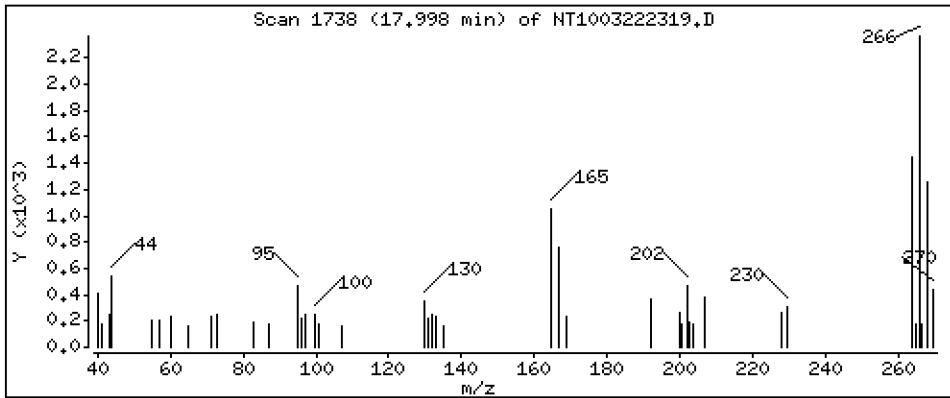
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,2485 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

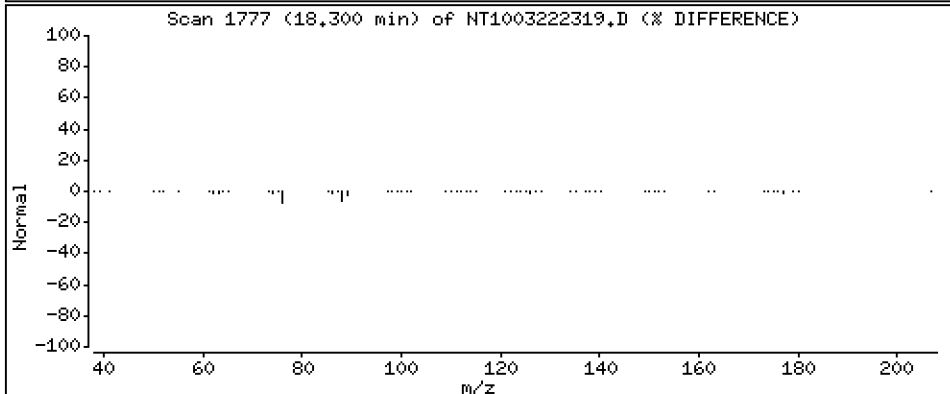
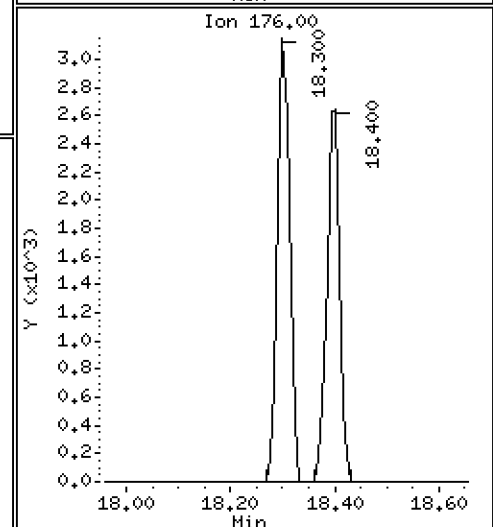
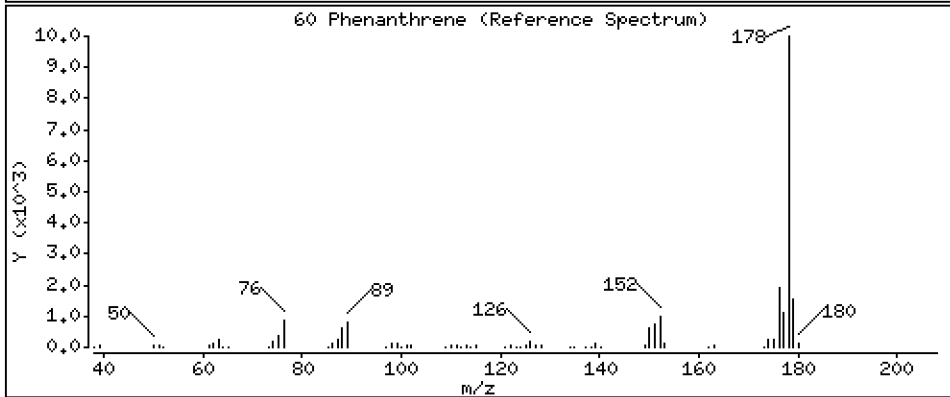
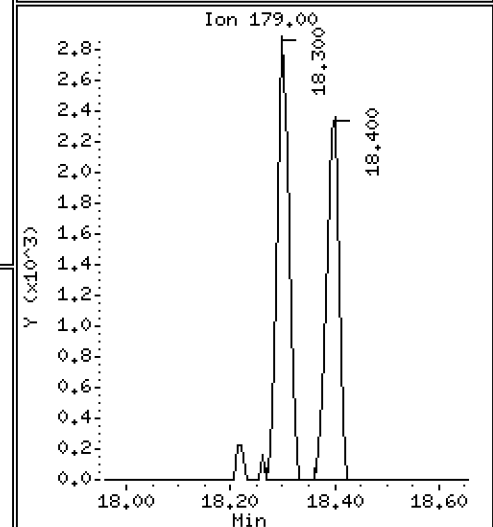
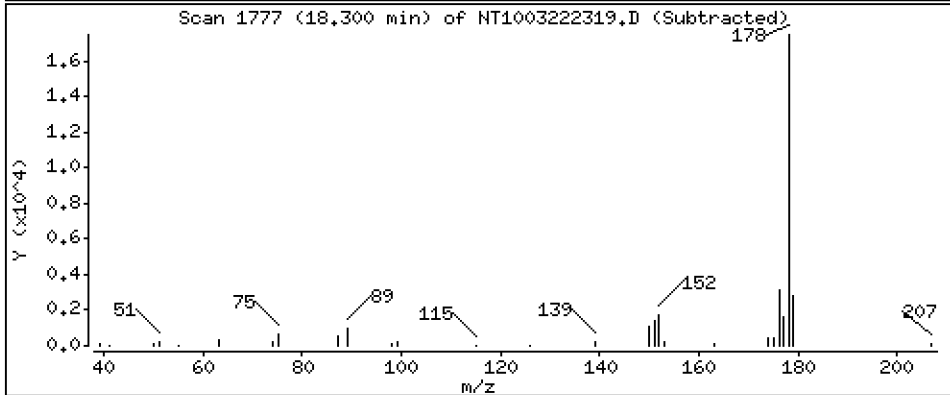
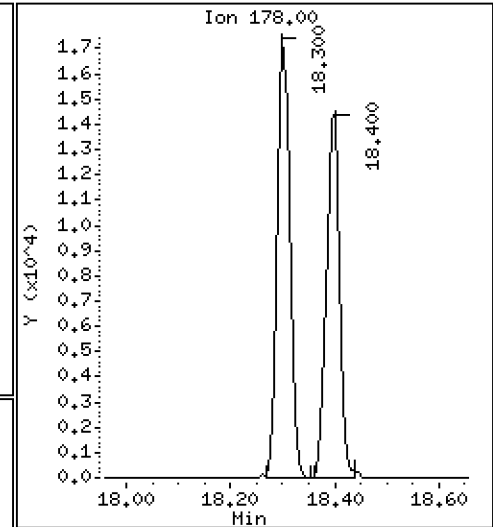
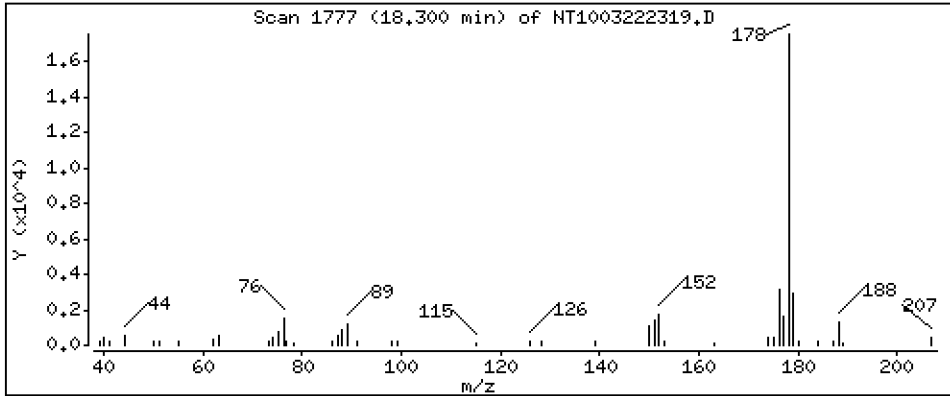
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,2096 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

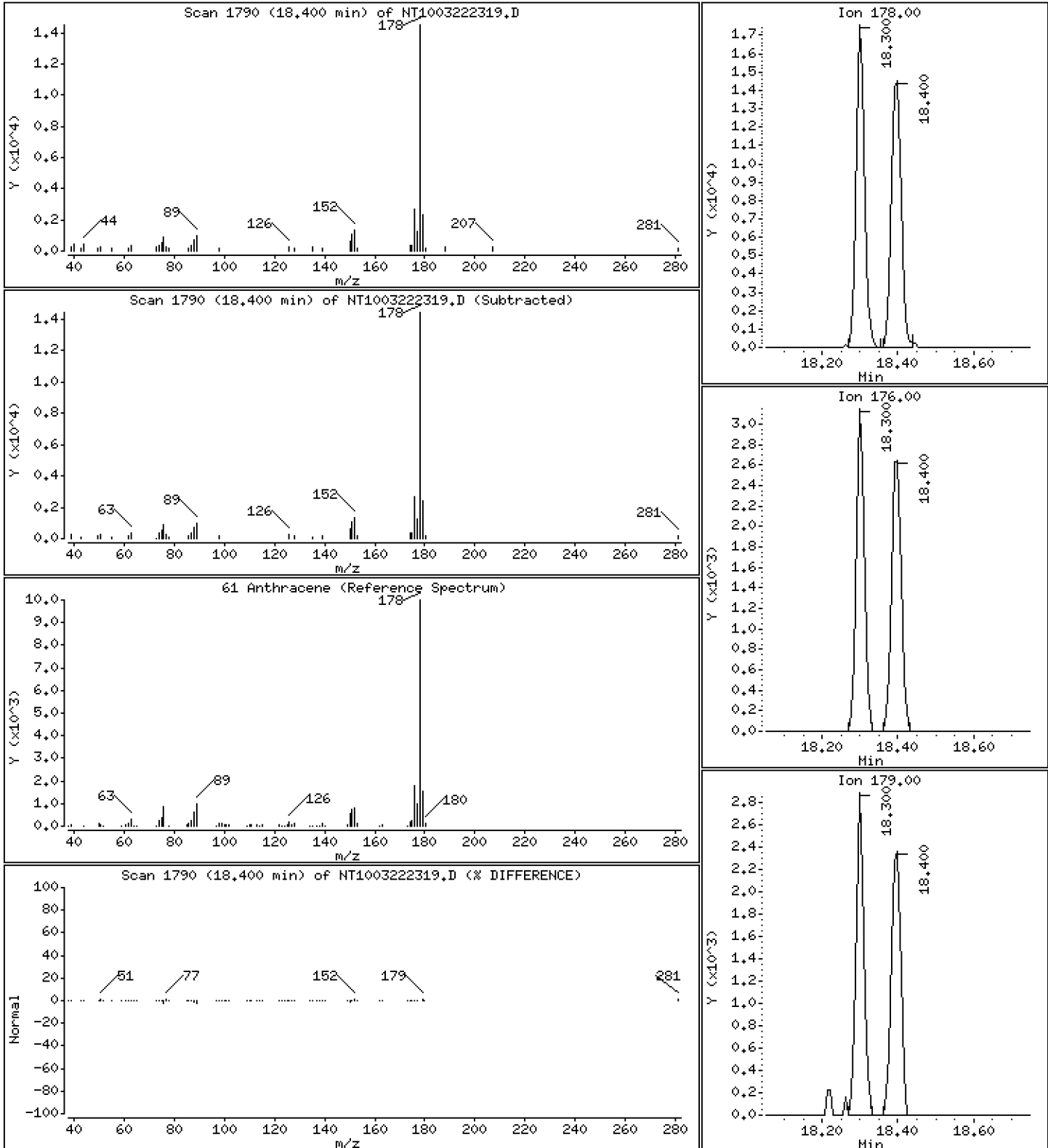
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2007 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

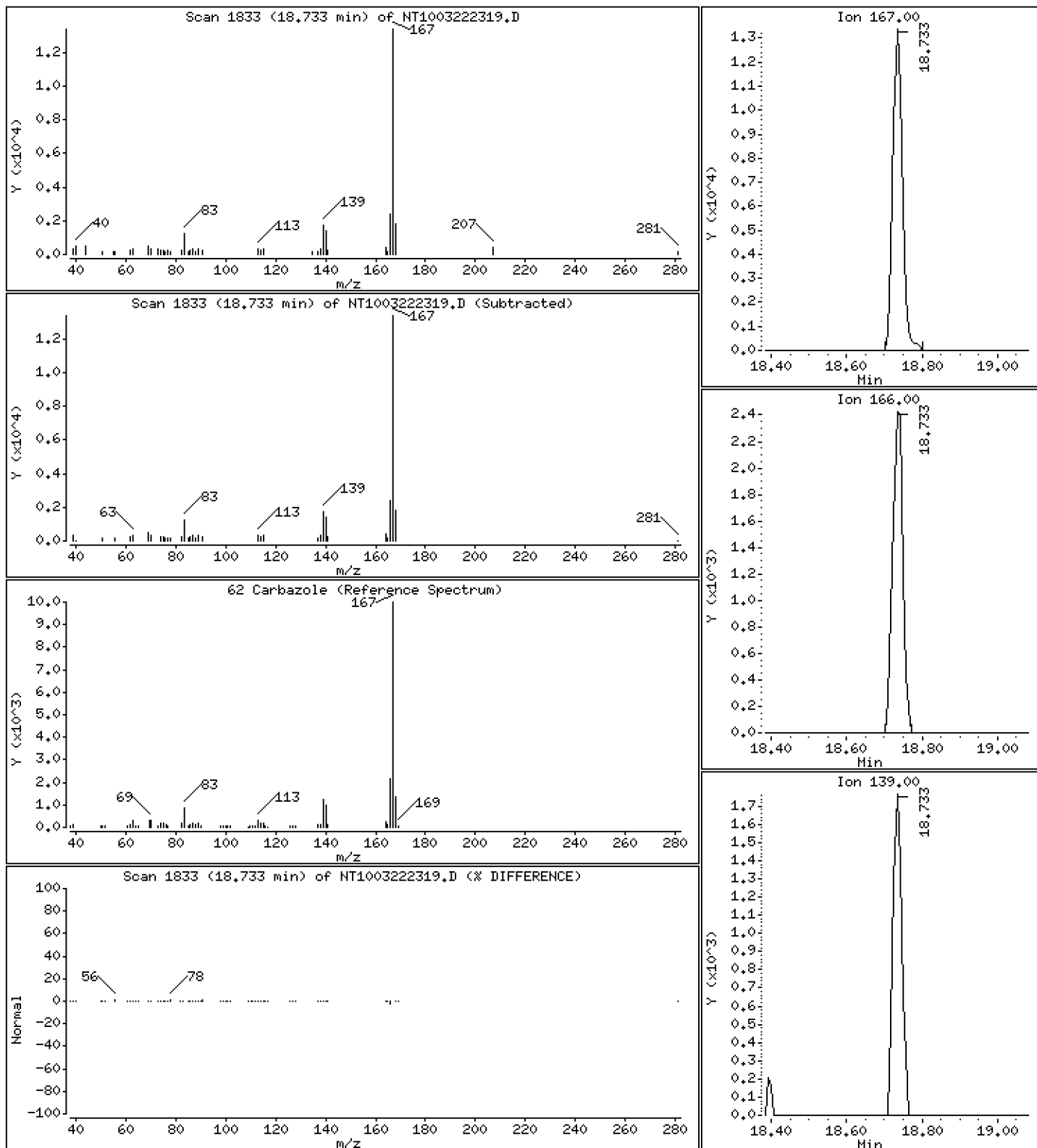
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1992 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

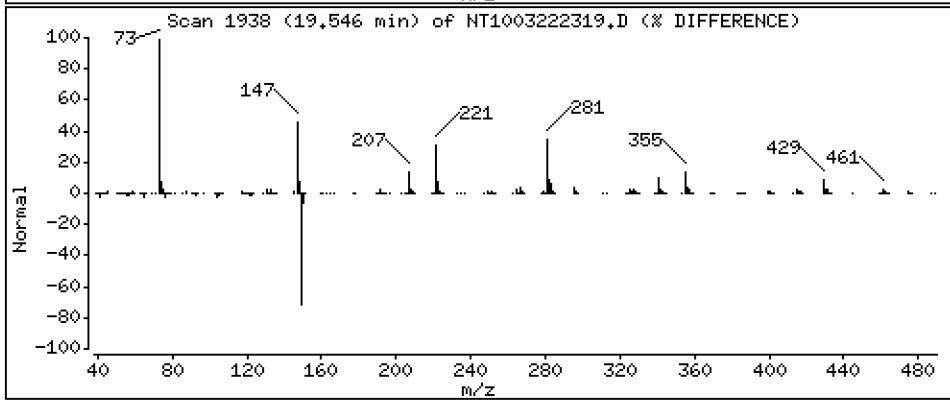
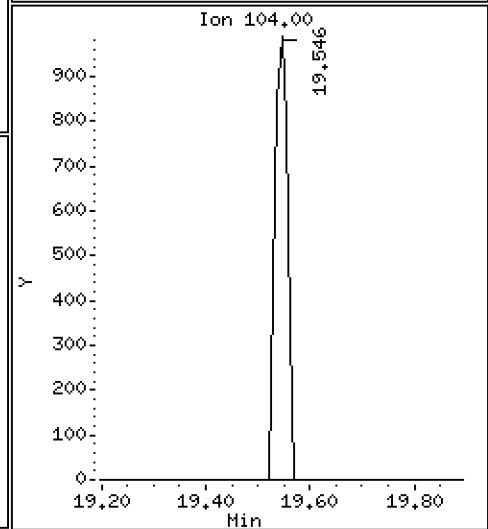
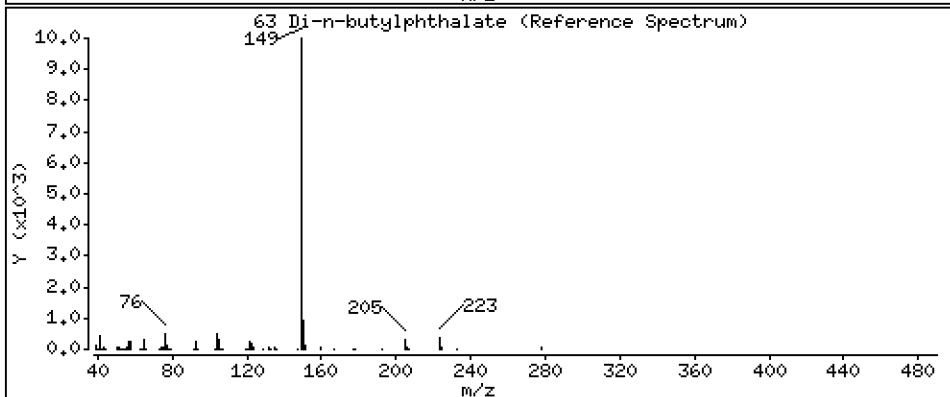
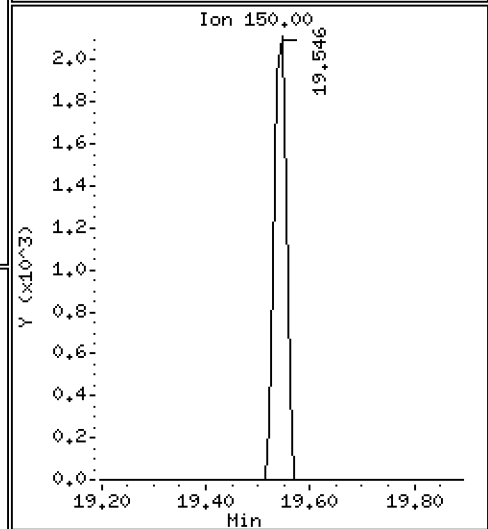
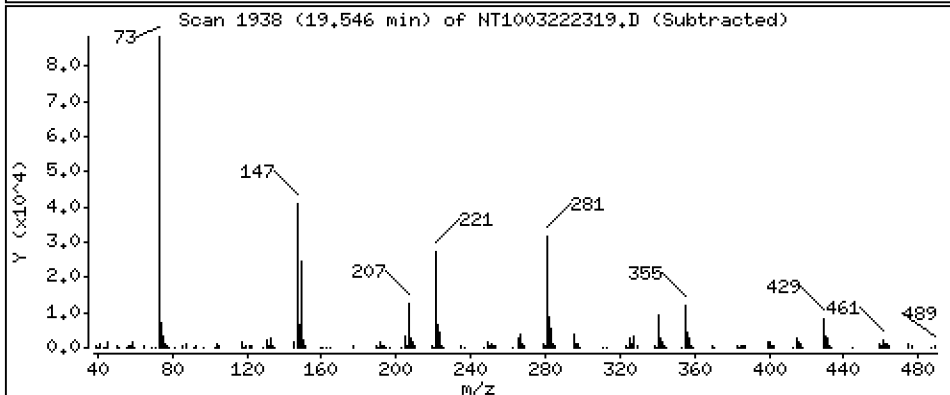
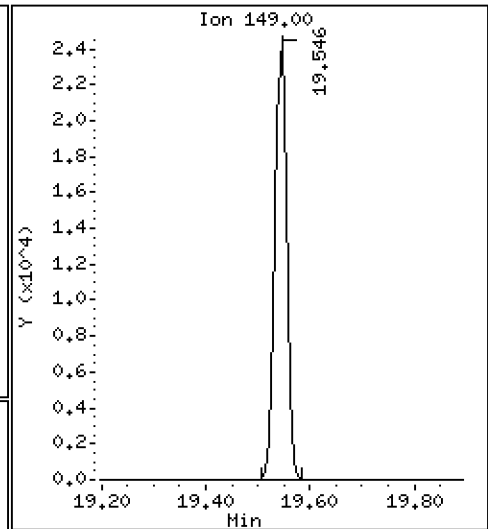
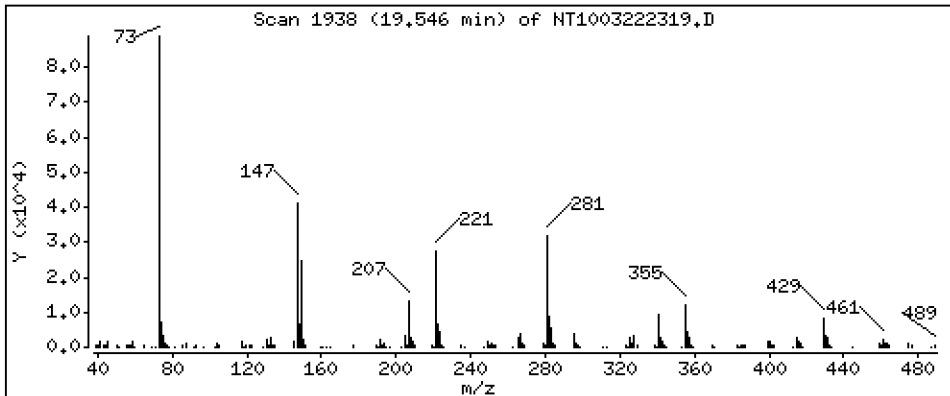
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,2388 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

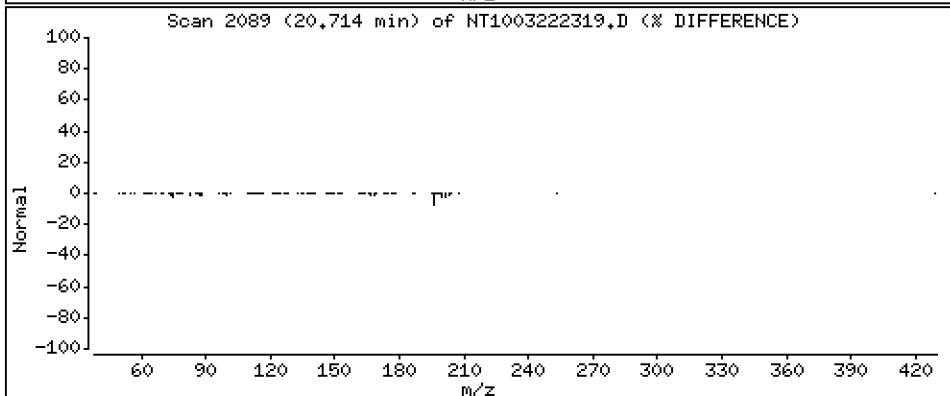
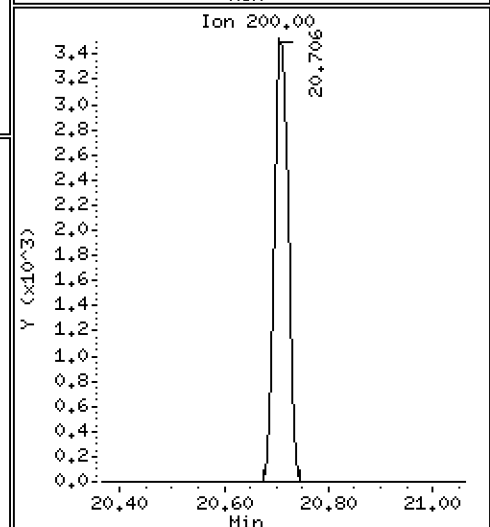
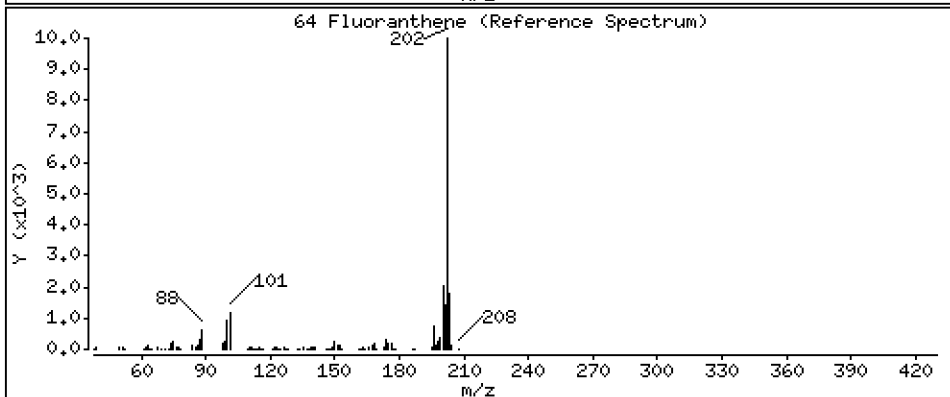
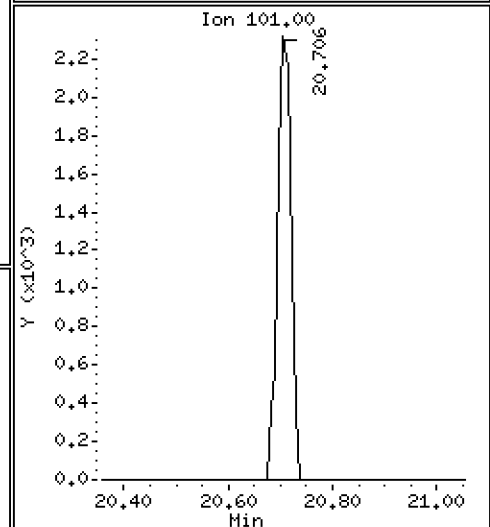
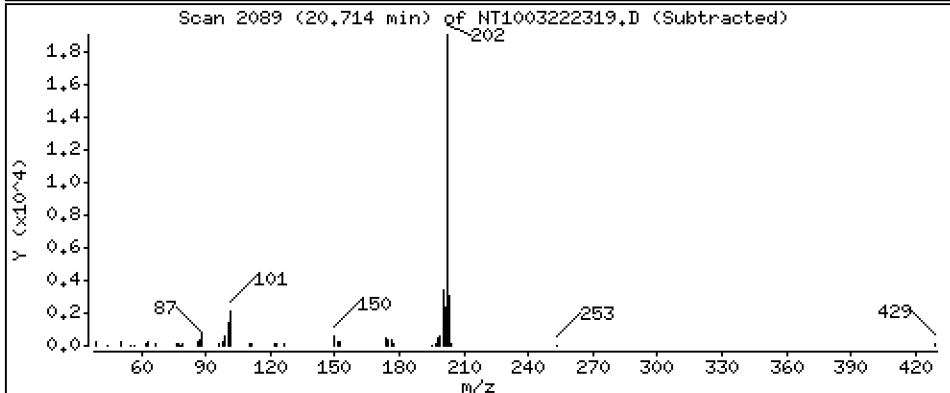
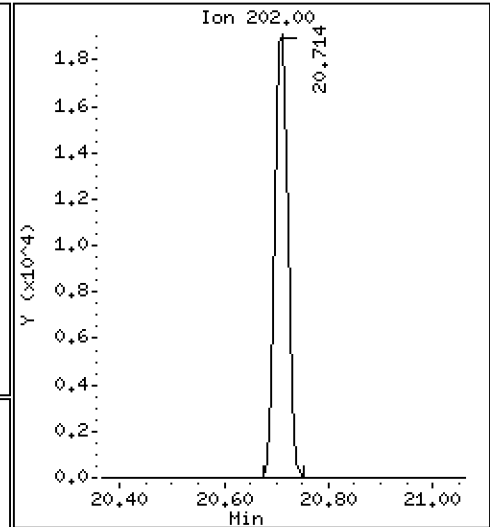
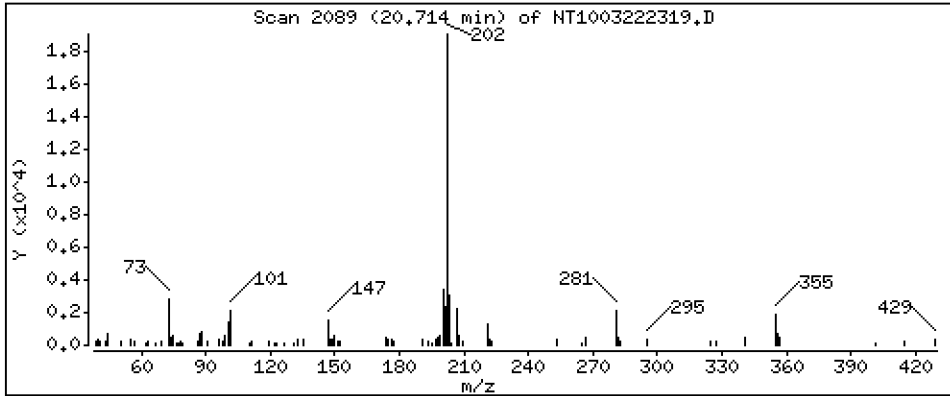
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,1801 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

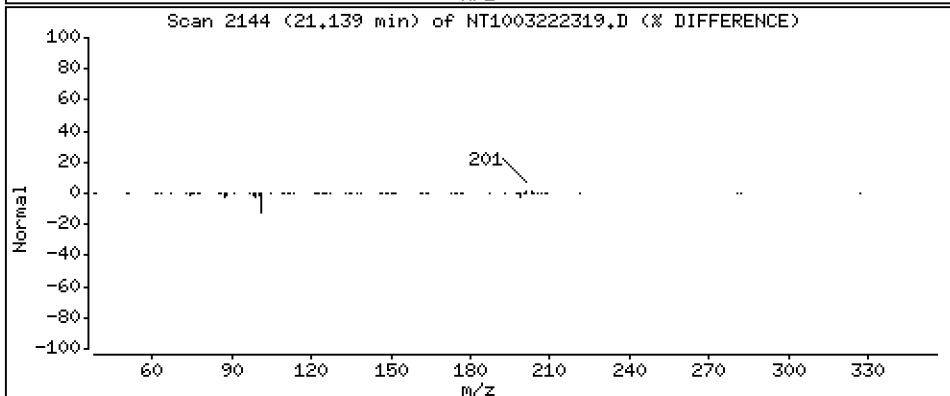
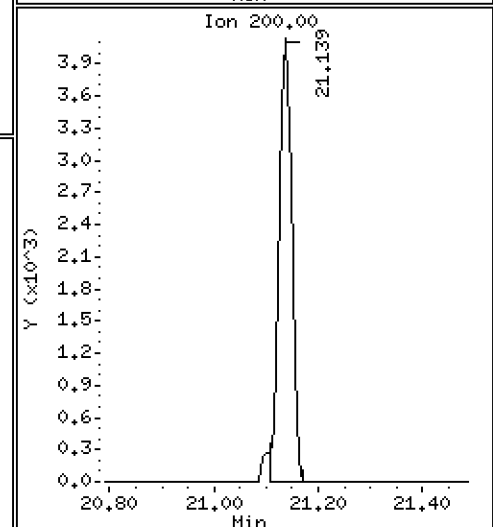
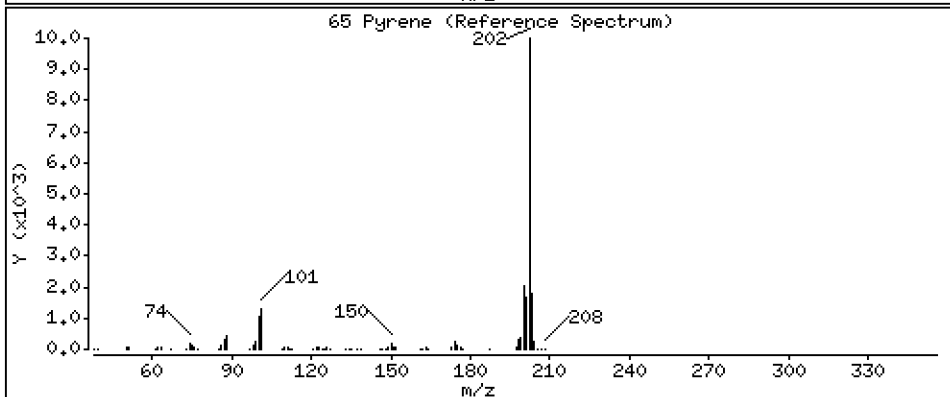
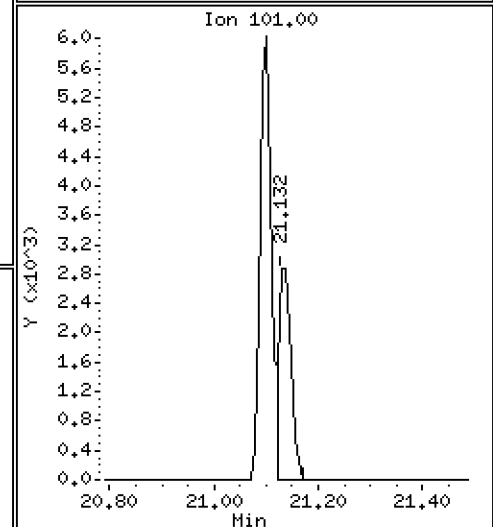
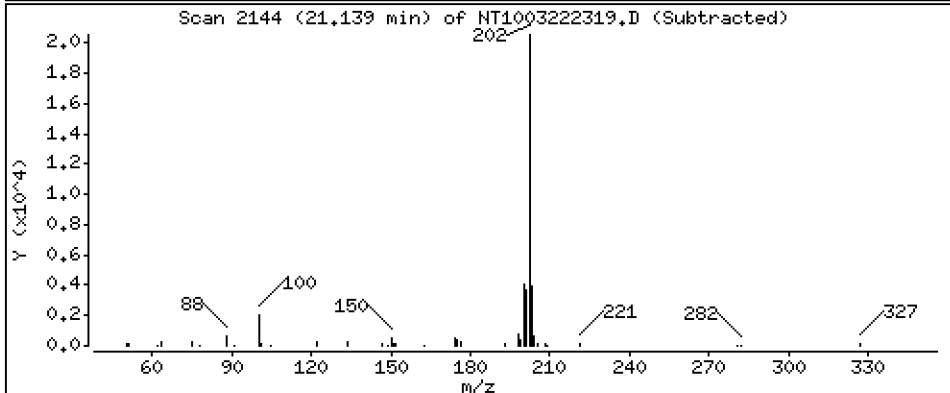
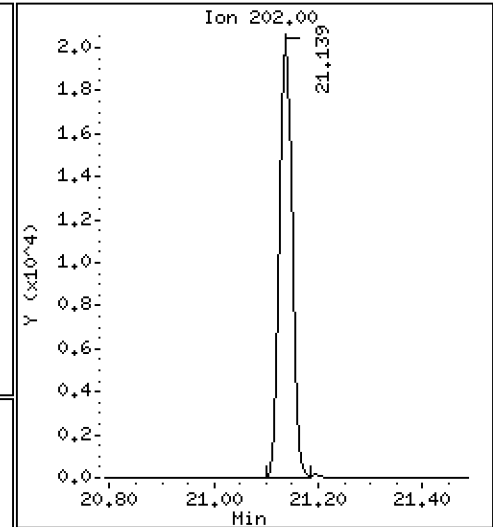
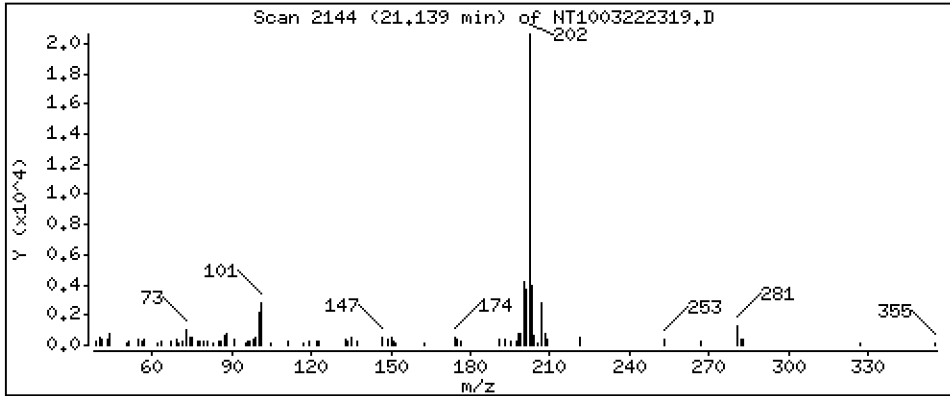
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,1791 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

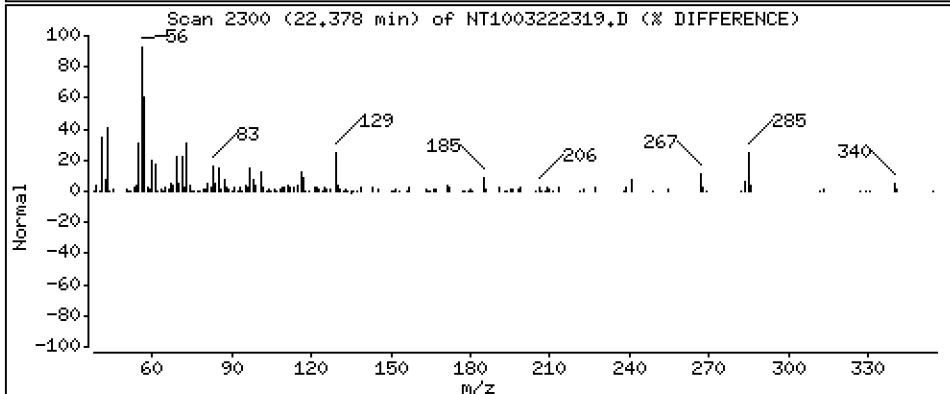
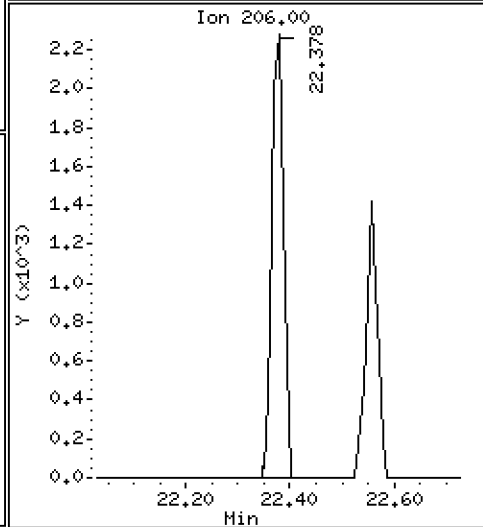
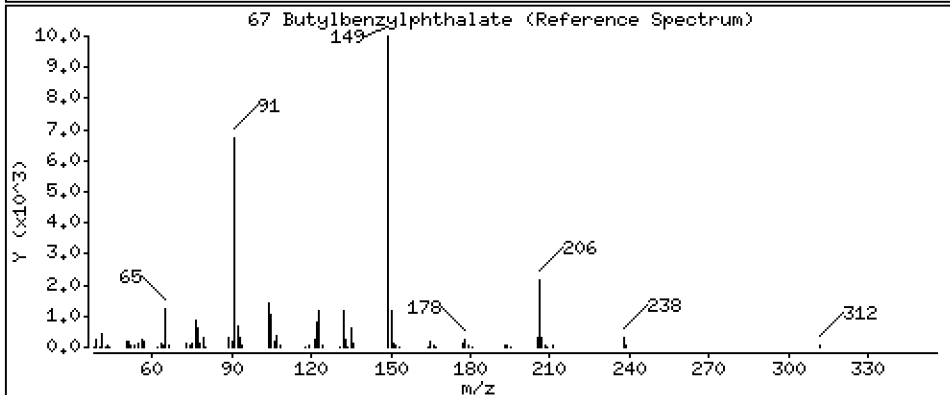
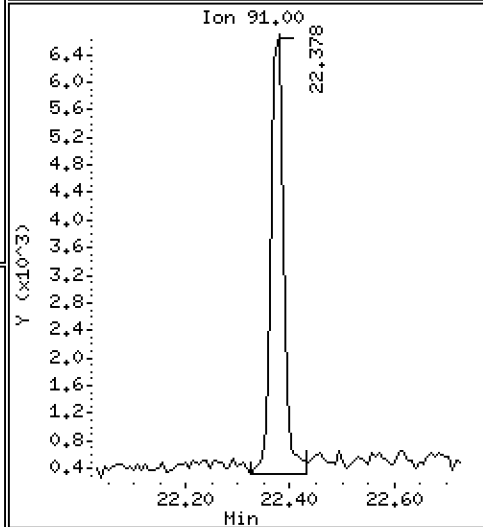
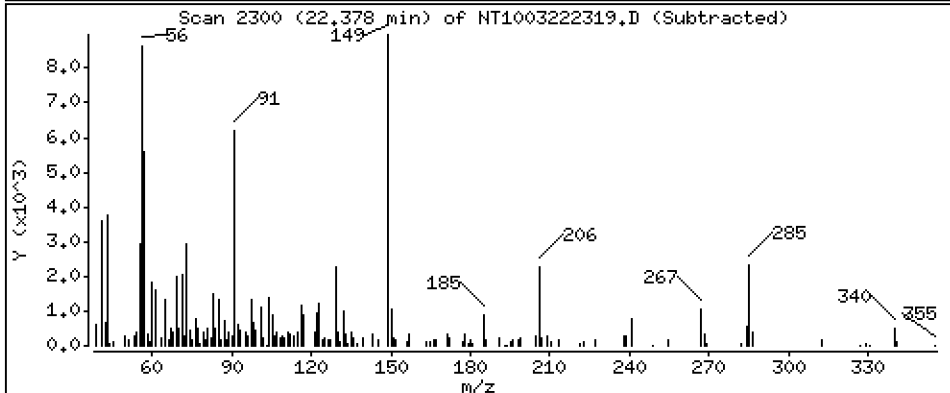
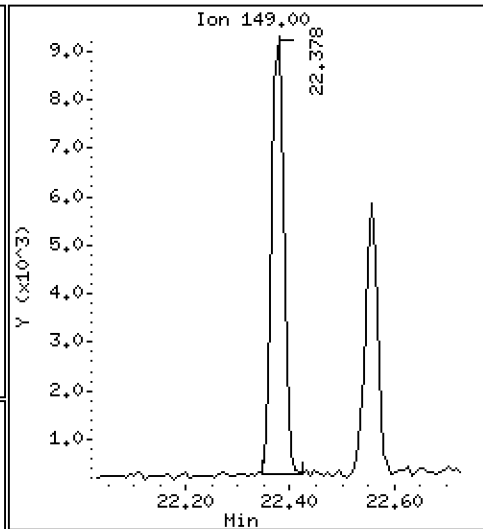
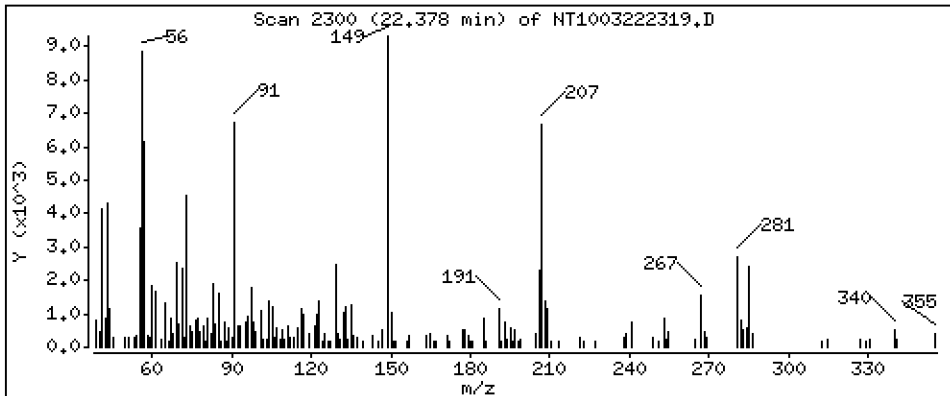
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,2157 ug/mL





Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

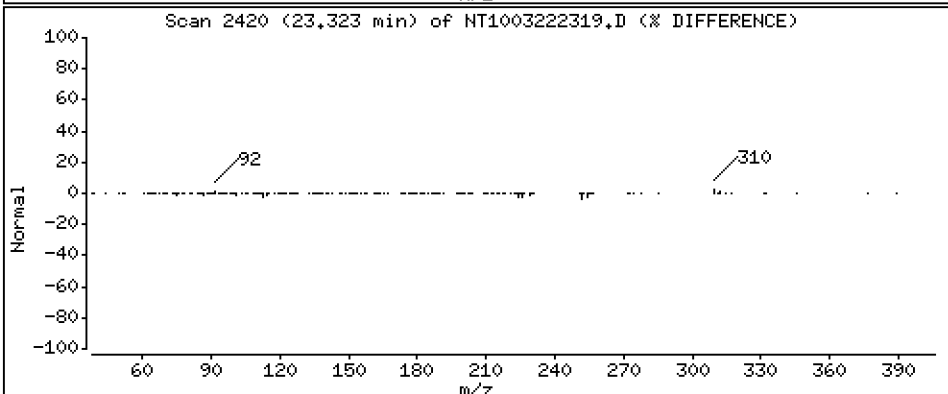
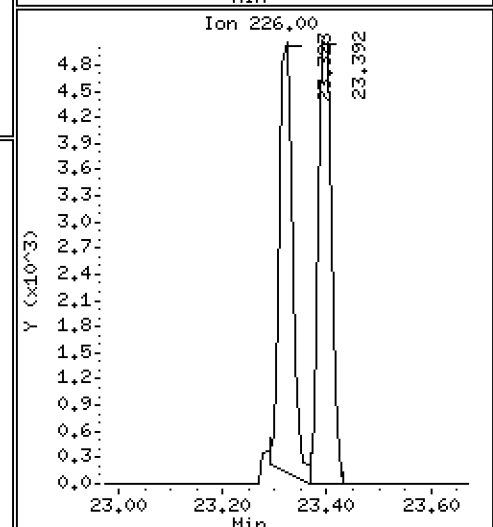
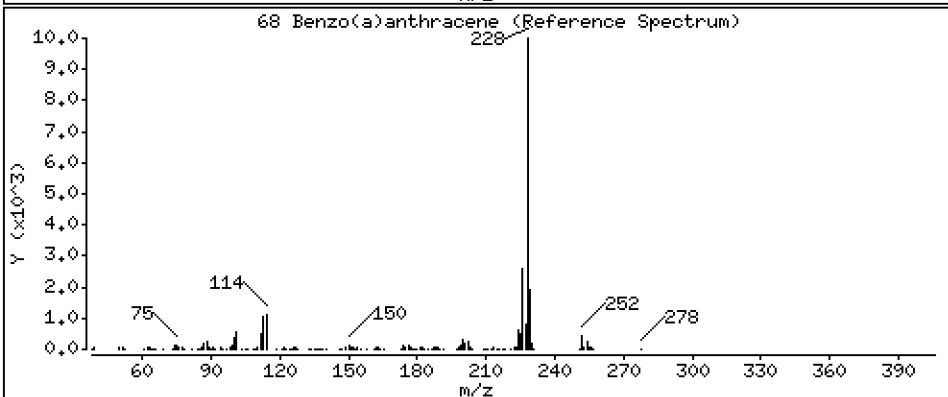
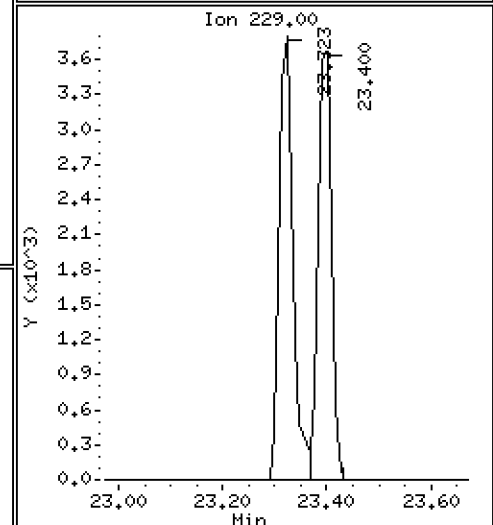
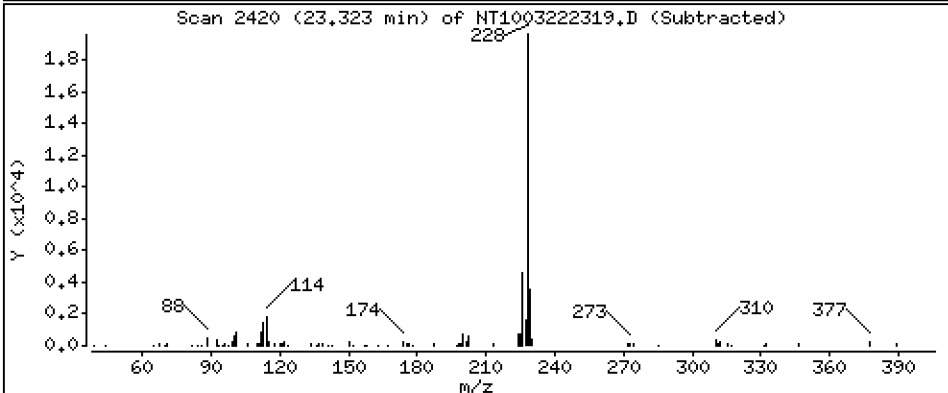
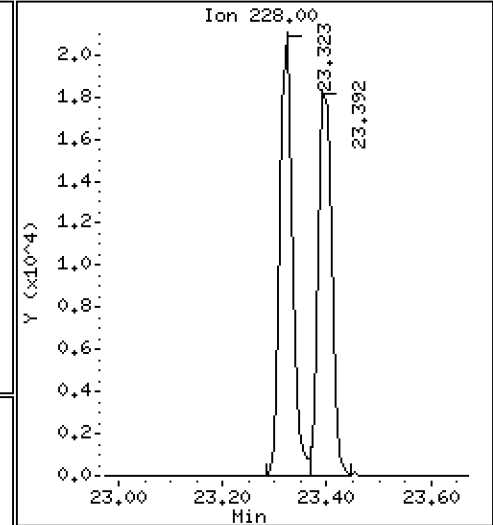
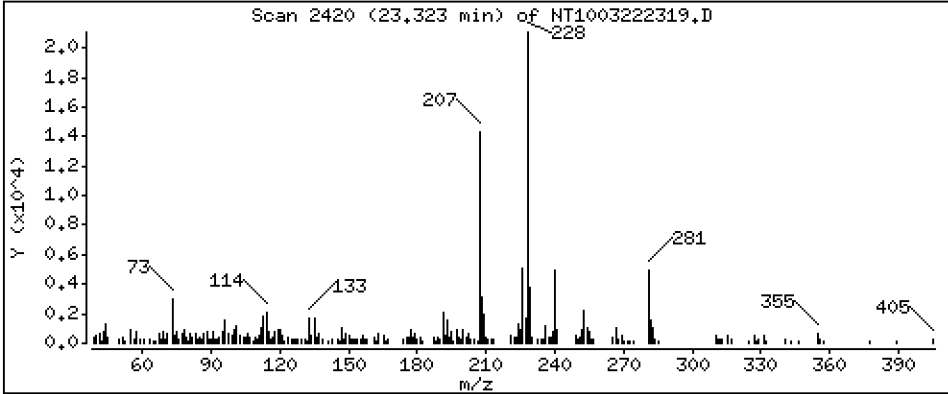
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2146 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

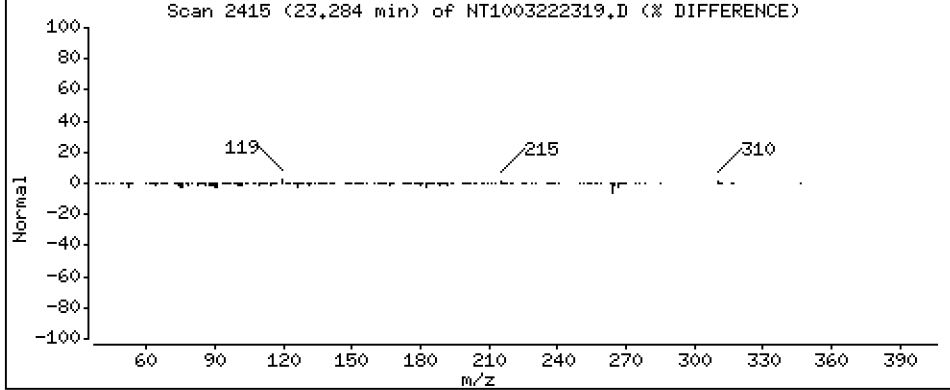
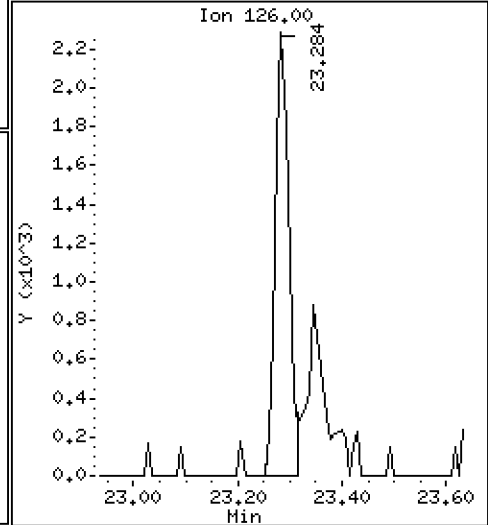
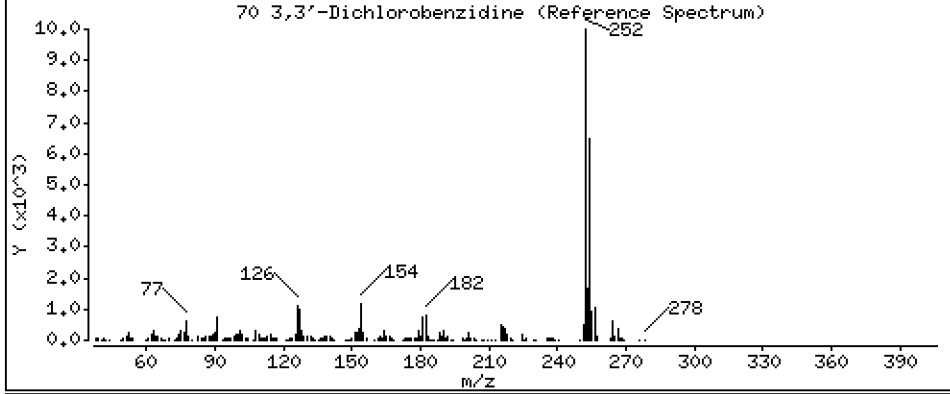
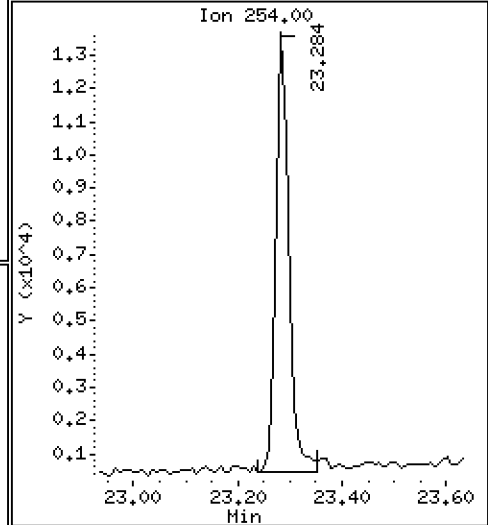
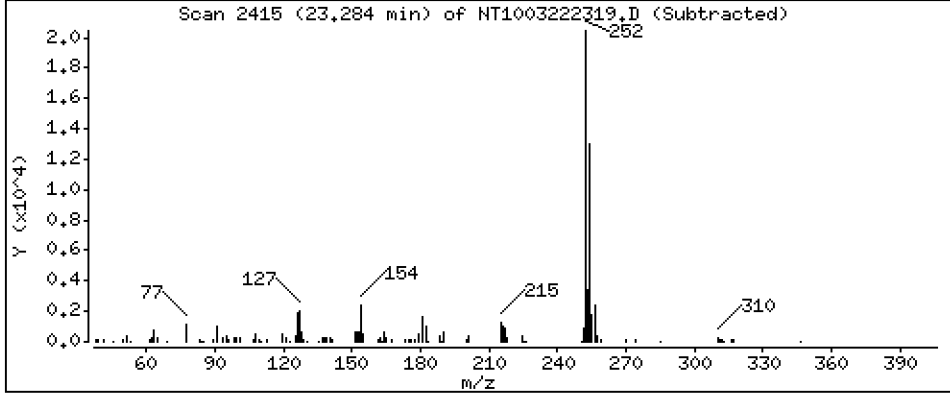
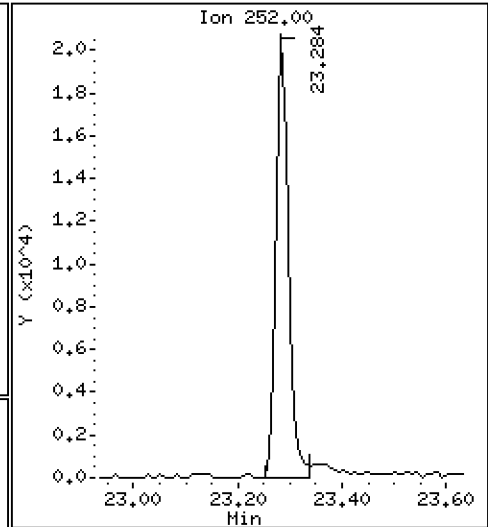
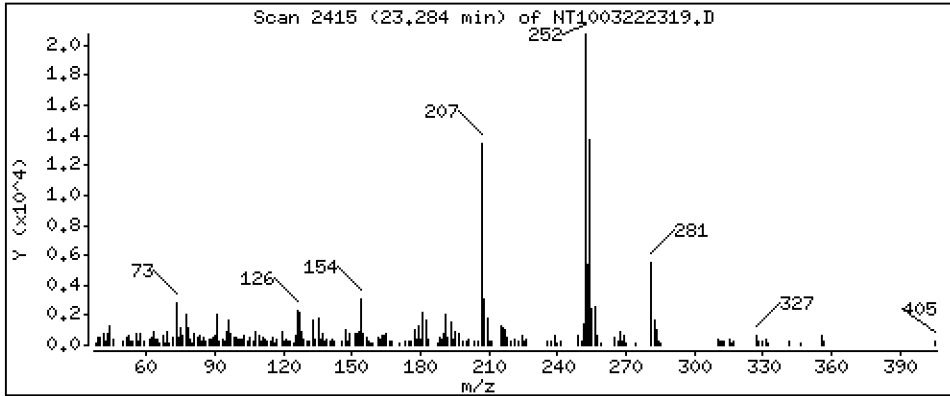
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,6447 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

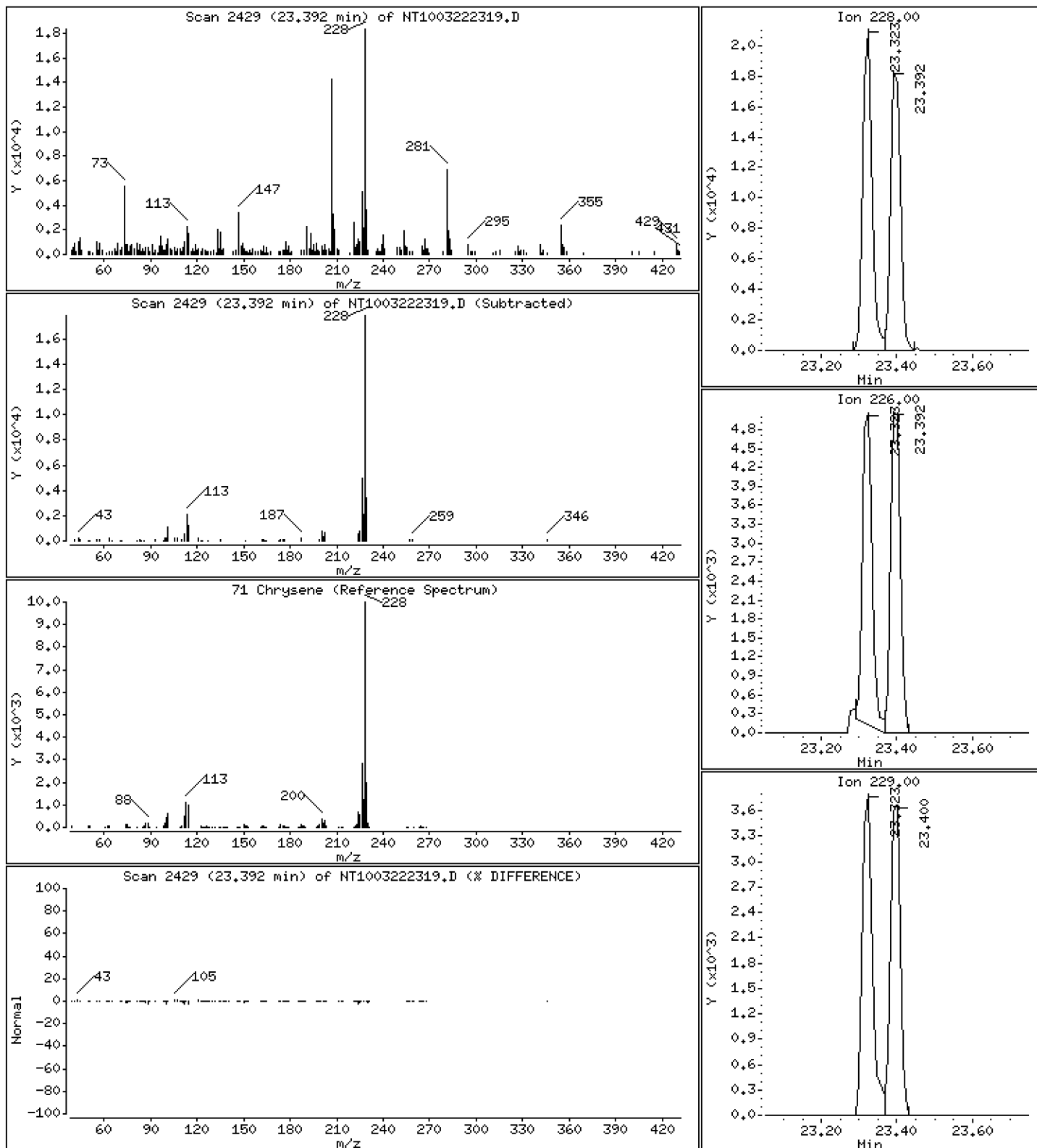
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2044 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

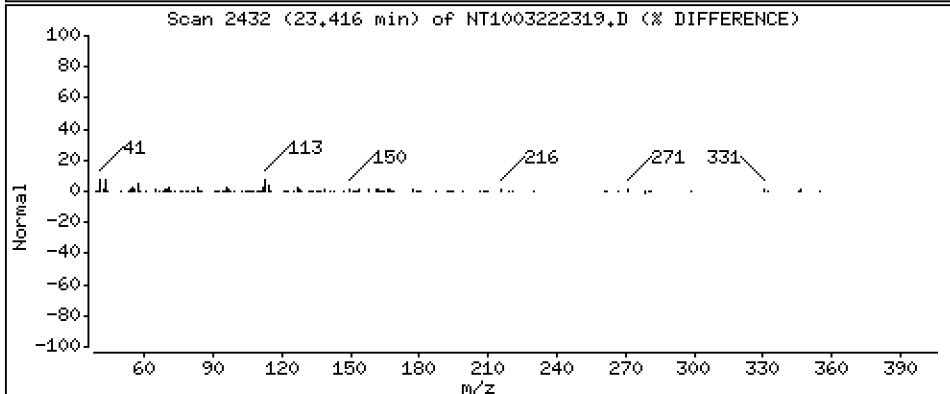
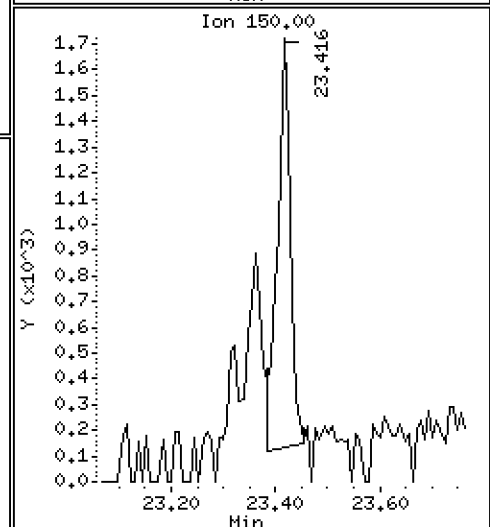
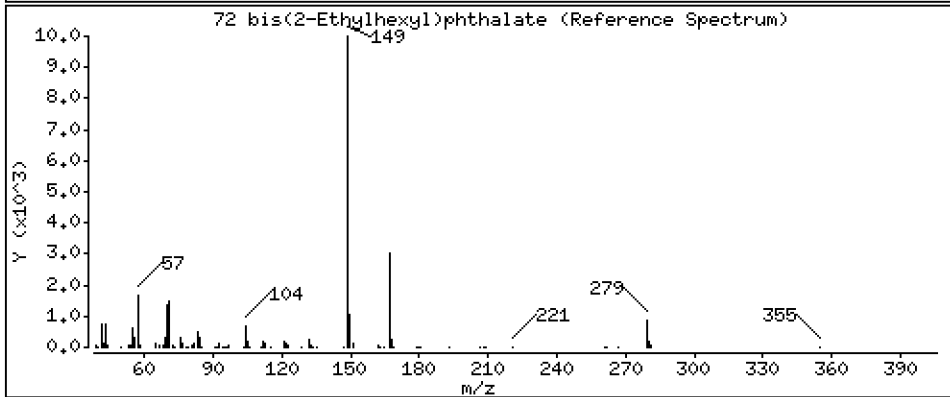
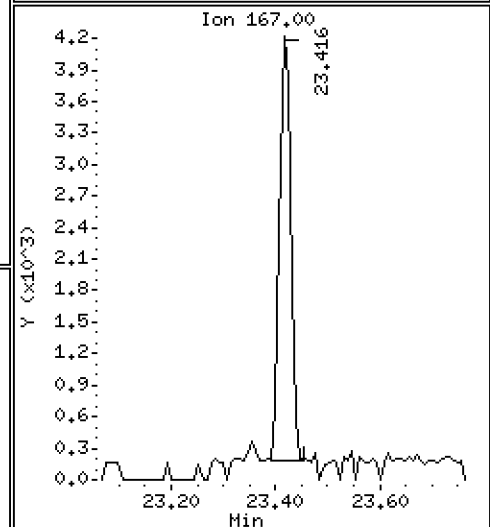
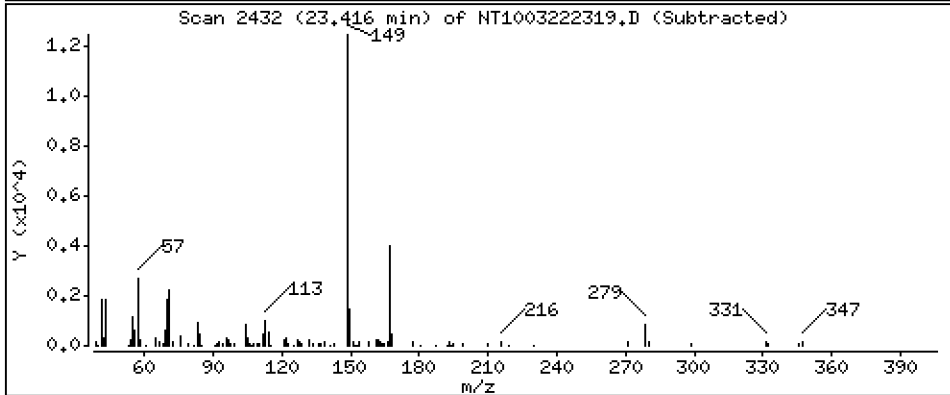
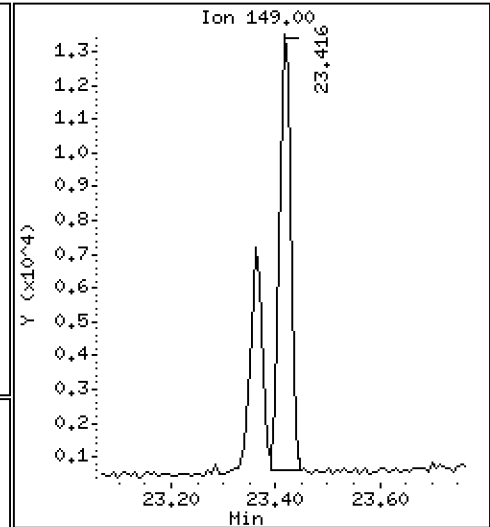
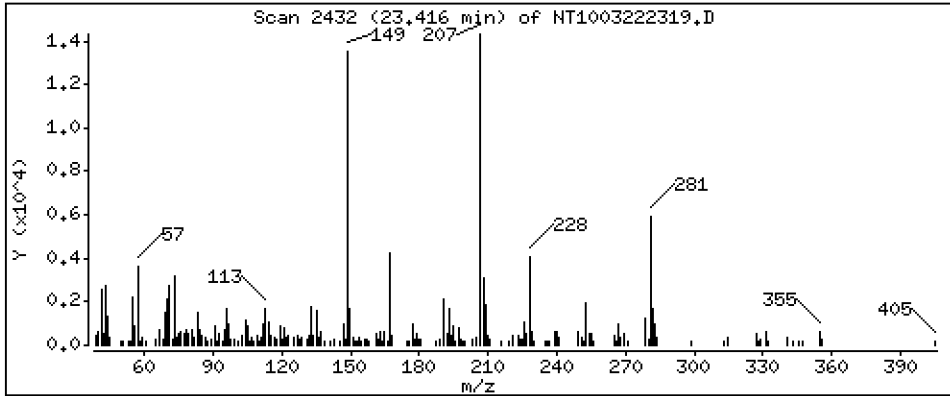
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,1872 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

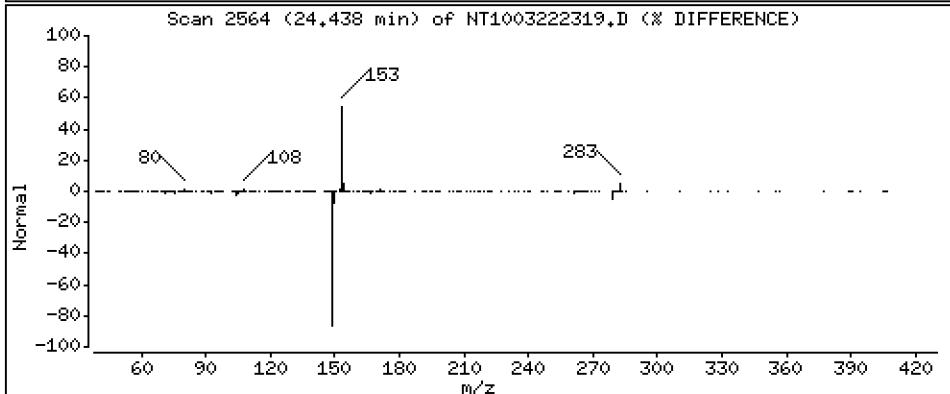
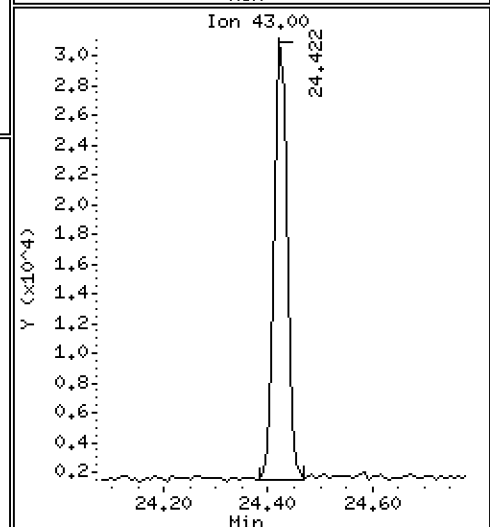
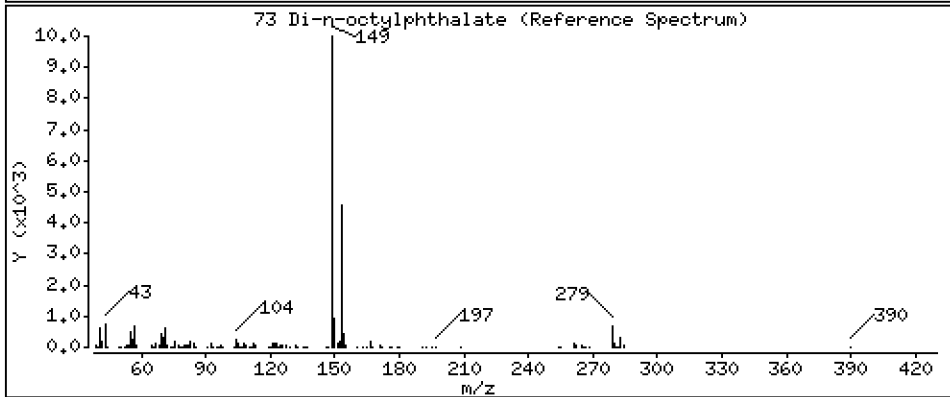
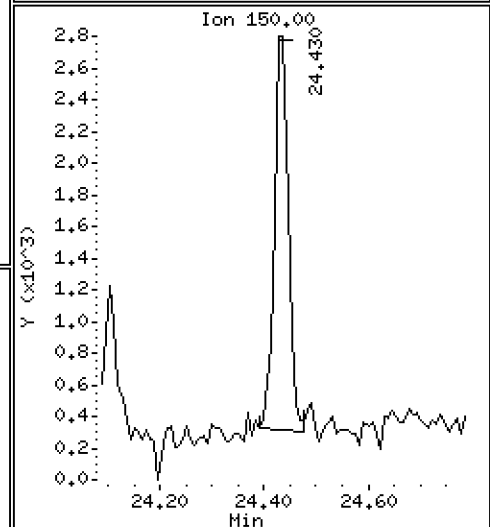
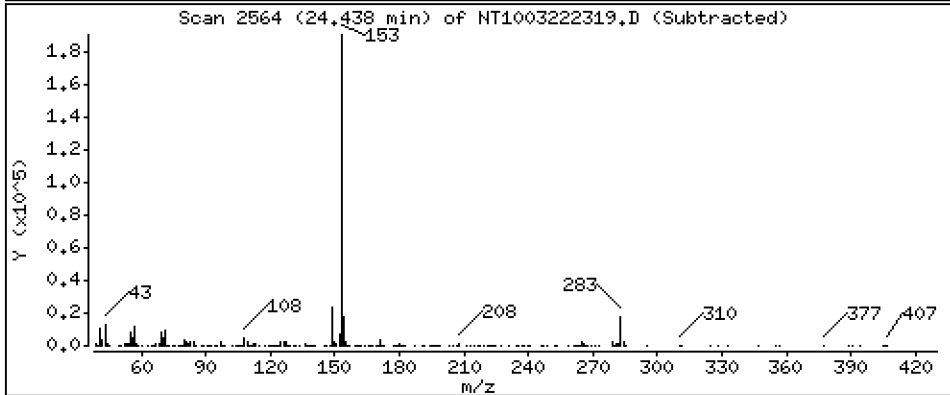
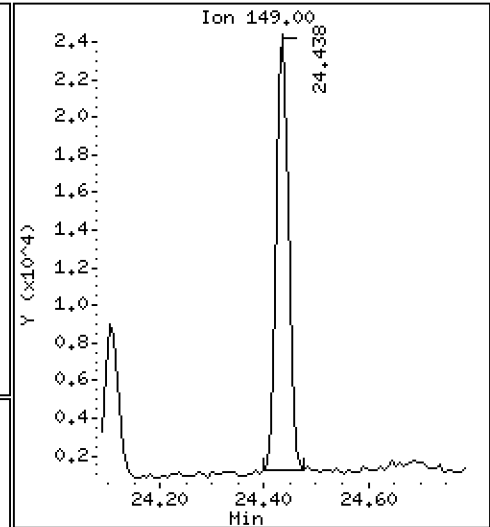
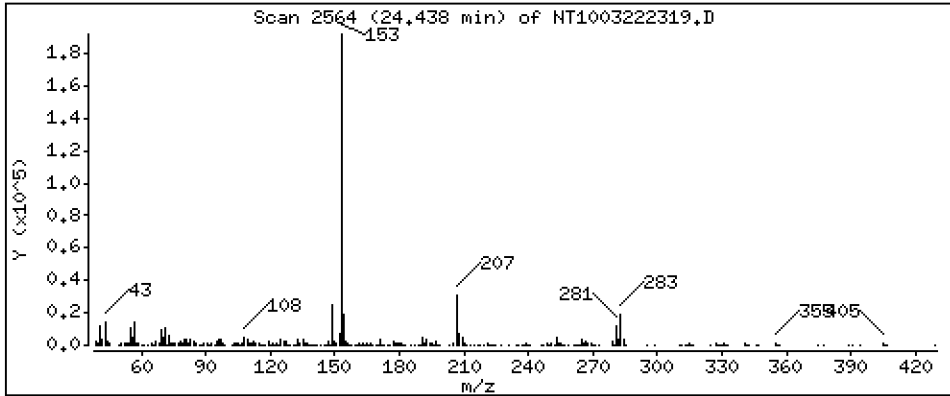
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2019 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

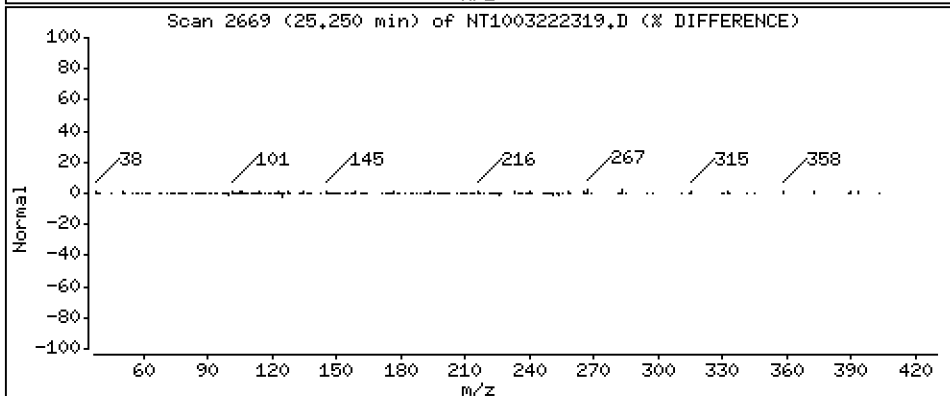
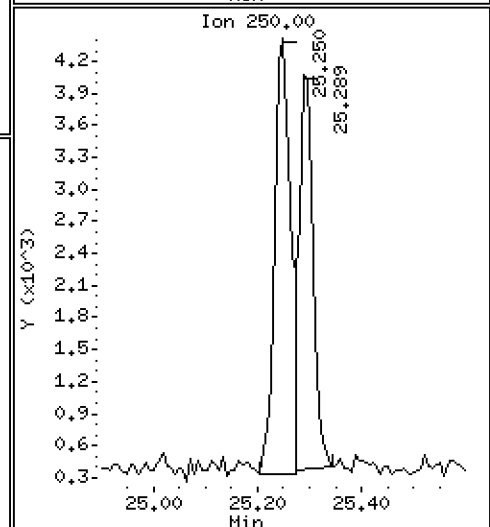
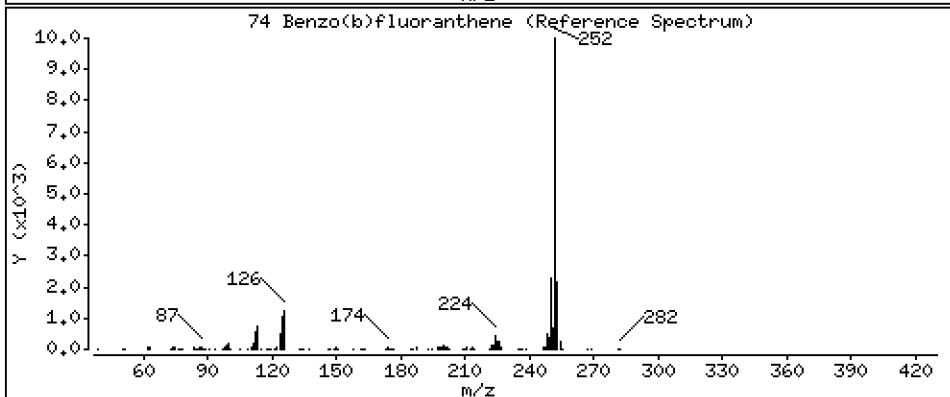
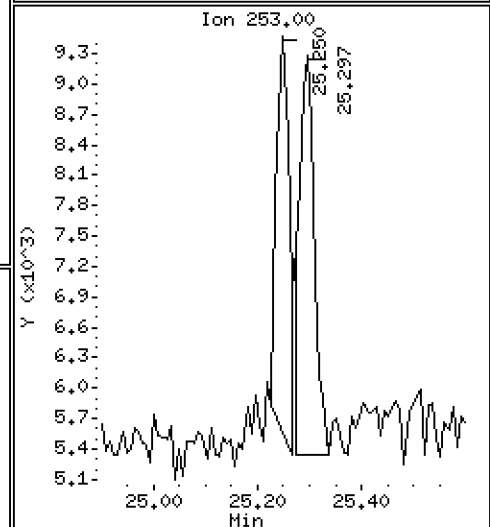
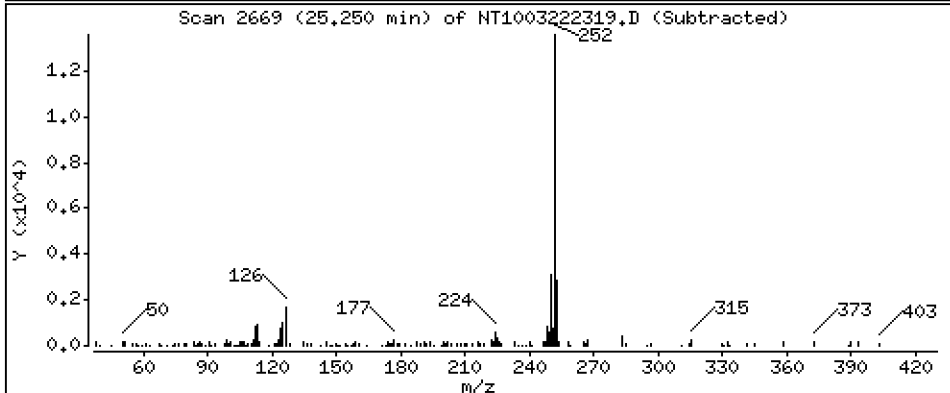
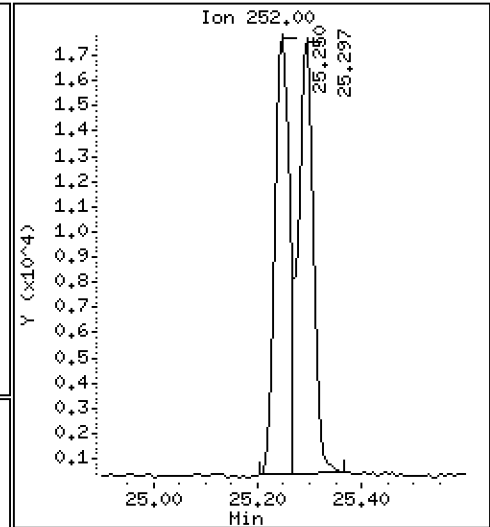
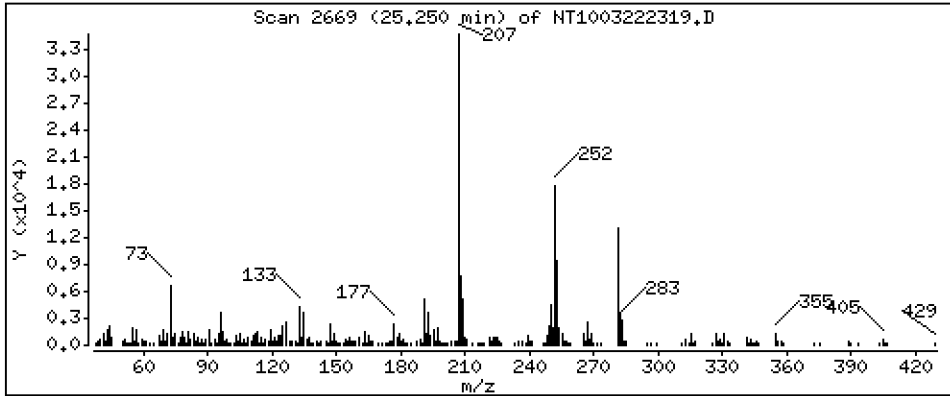
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,1942 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

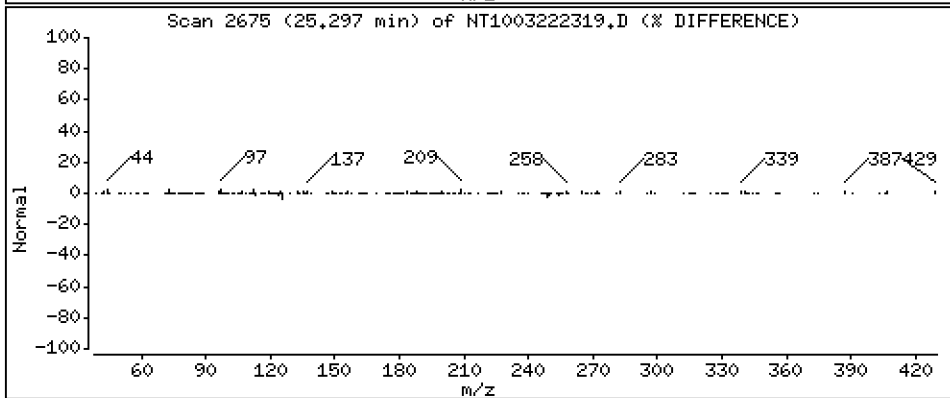
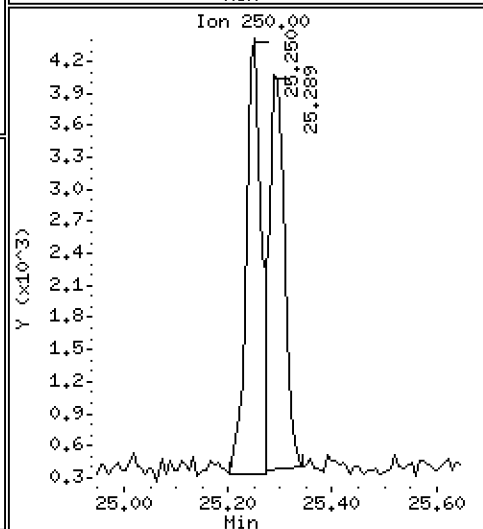
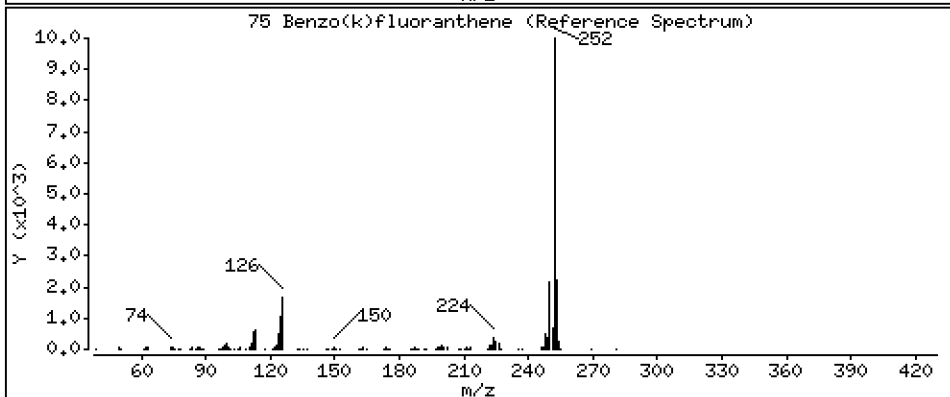
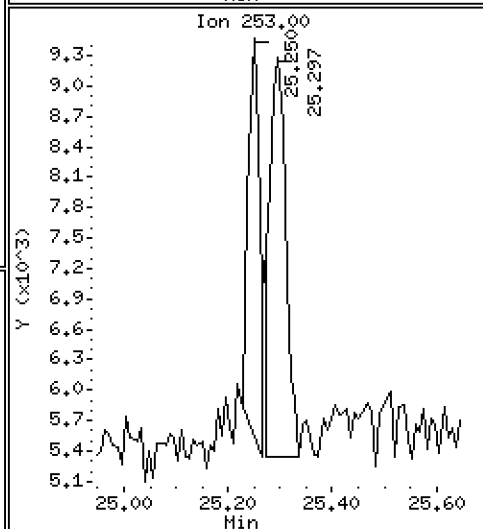
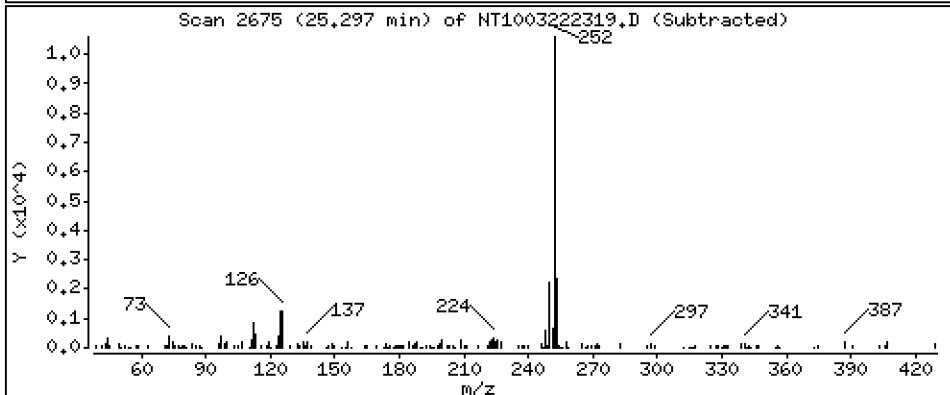
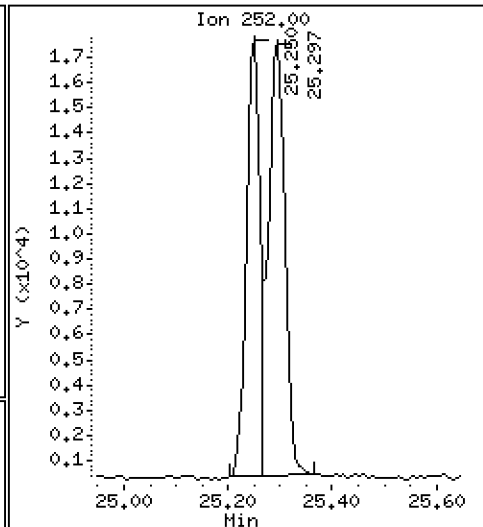
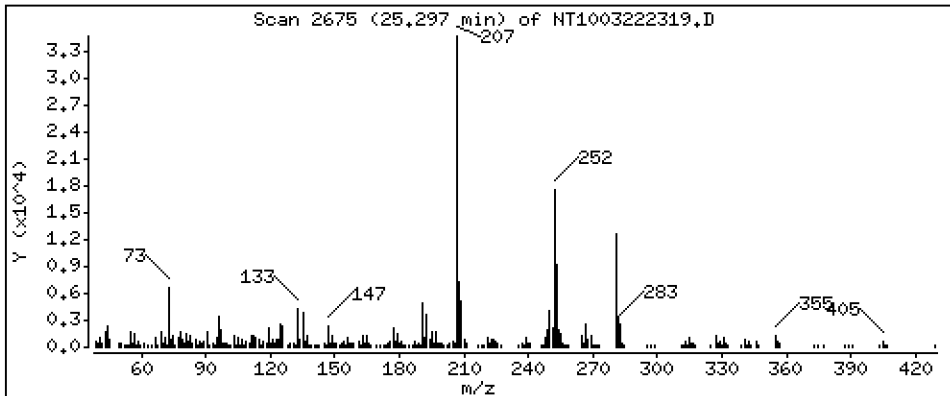
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2290 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

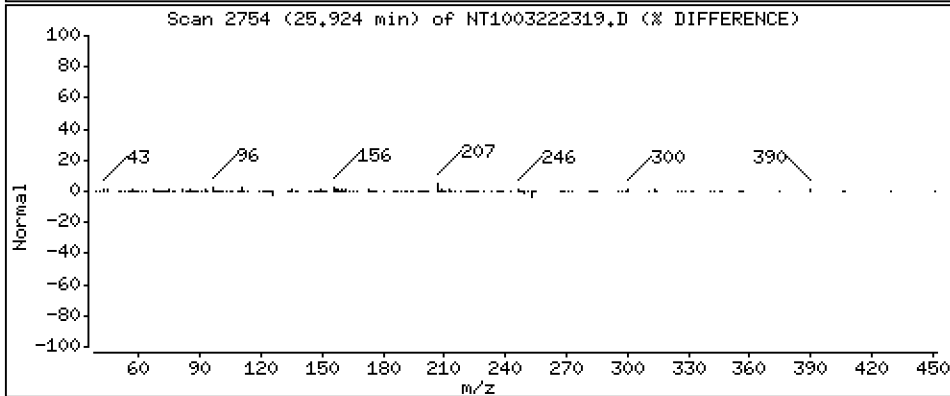
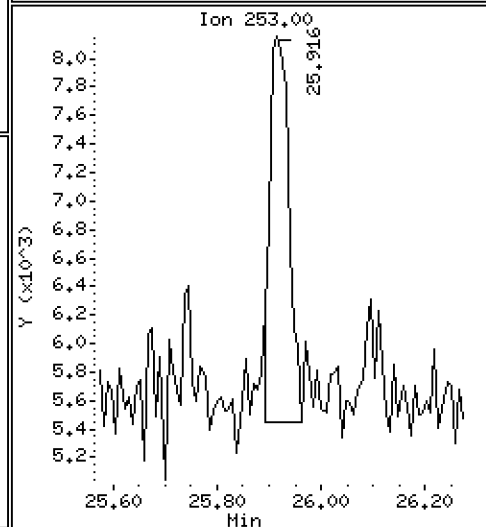
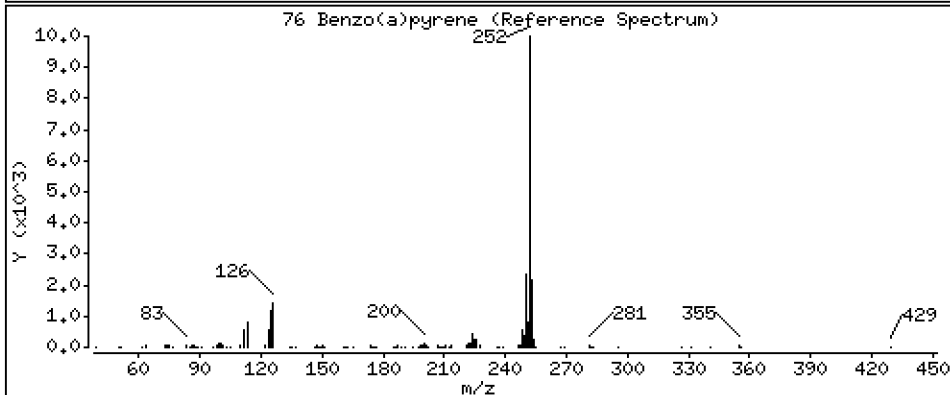
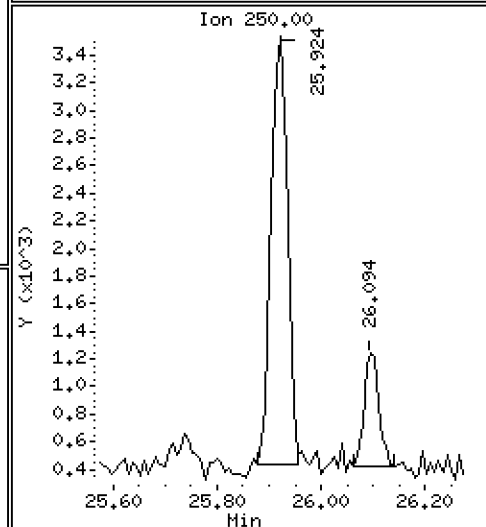
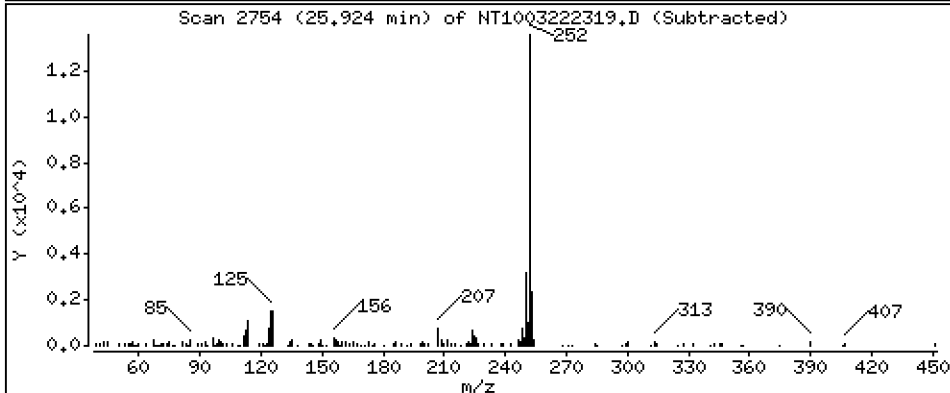
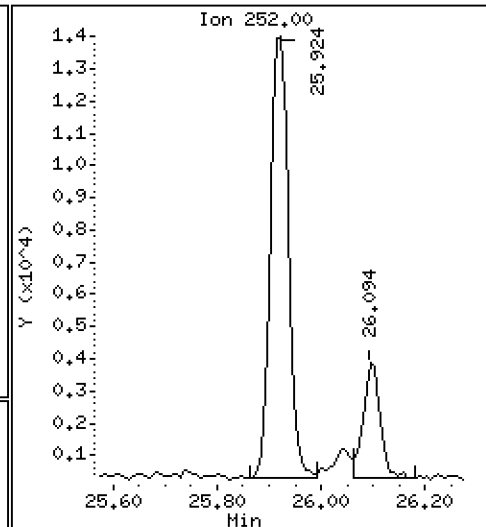
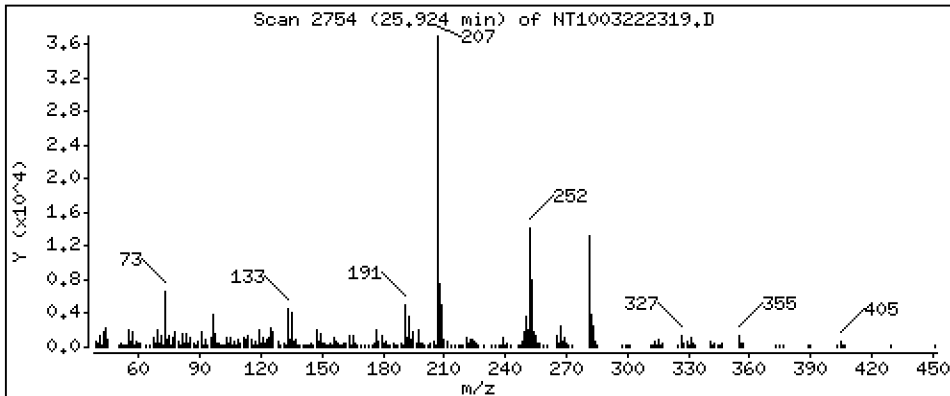
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2157 ug/mL





Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

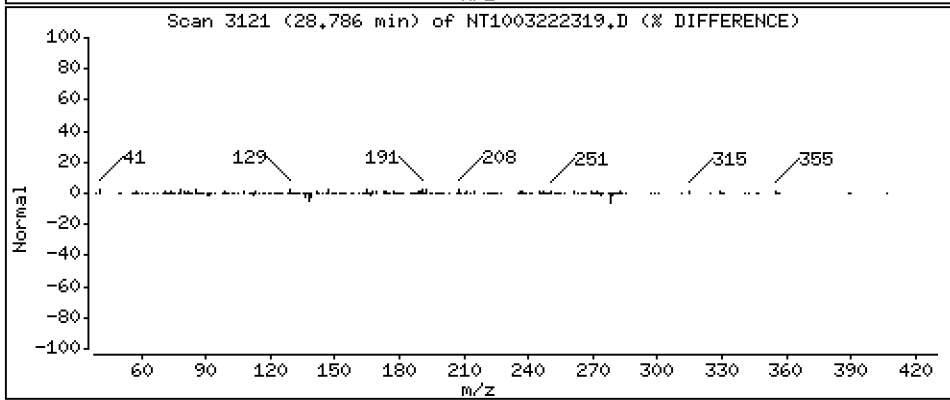
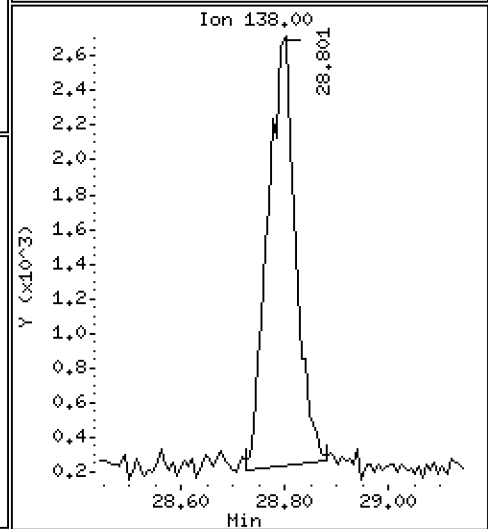
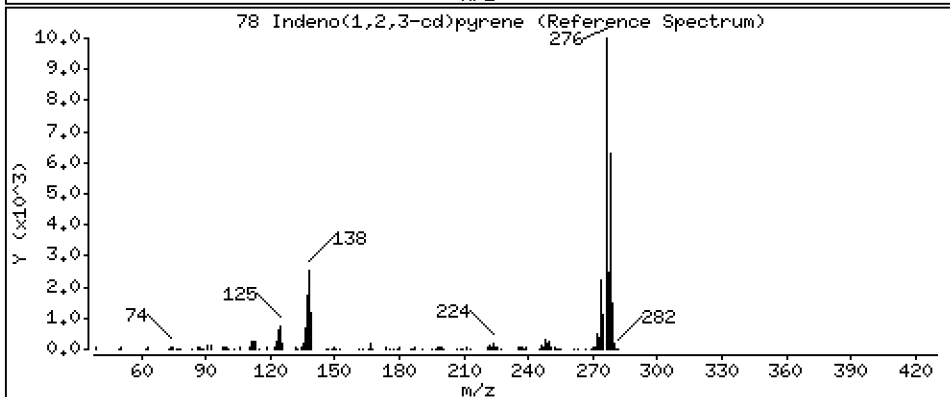
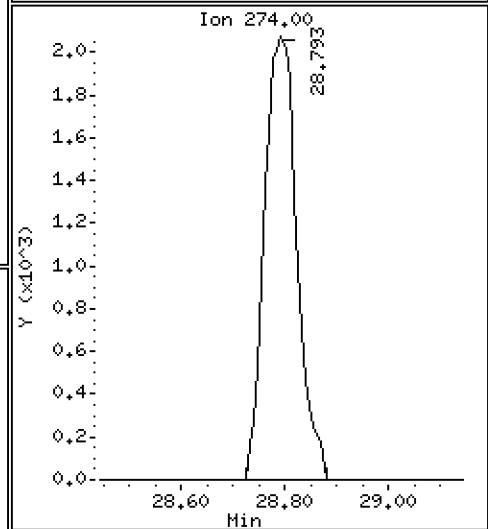
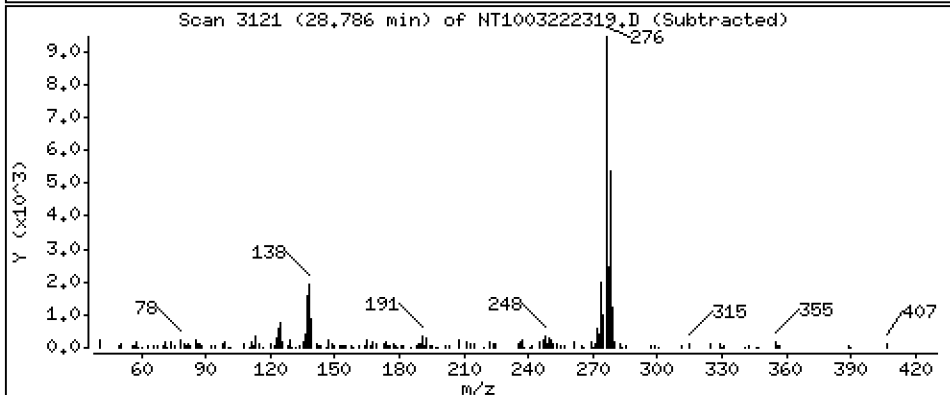
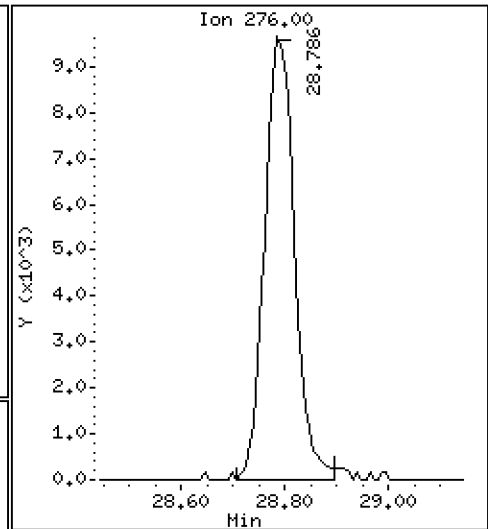
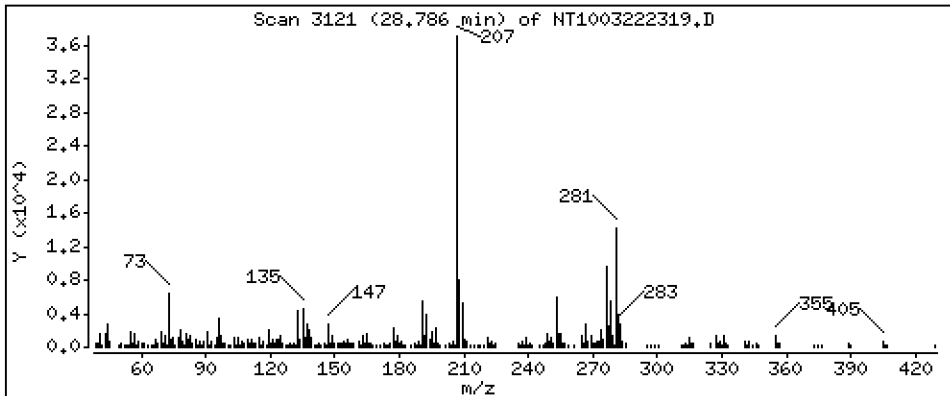
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,2021 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

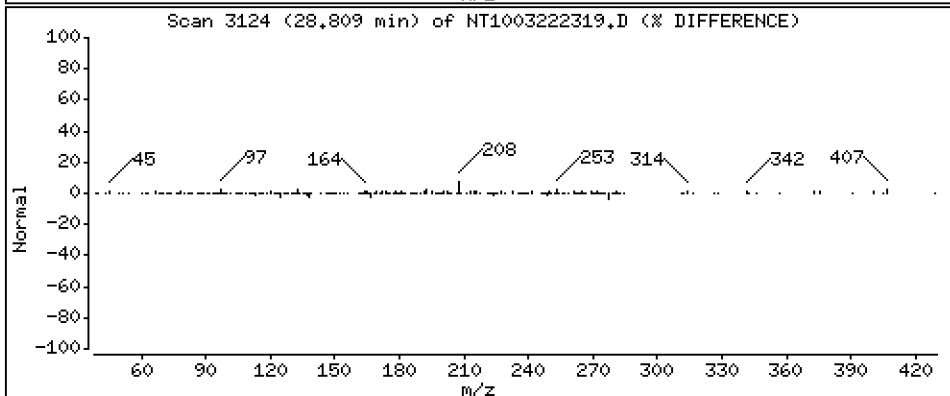
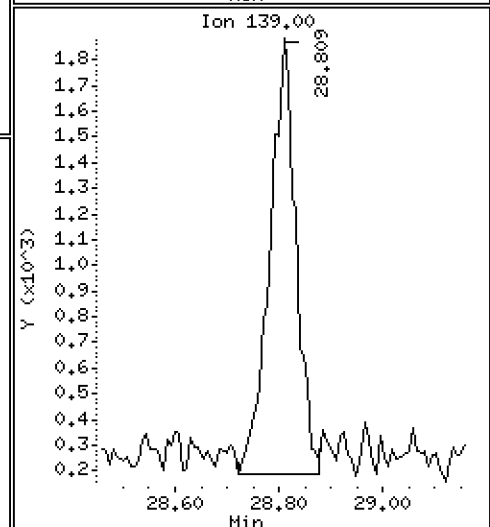
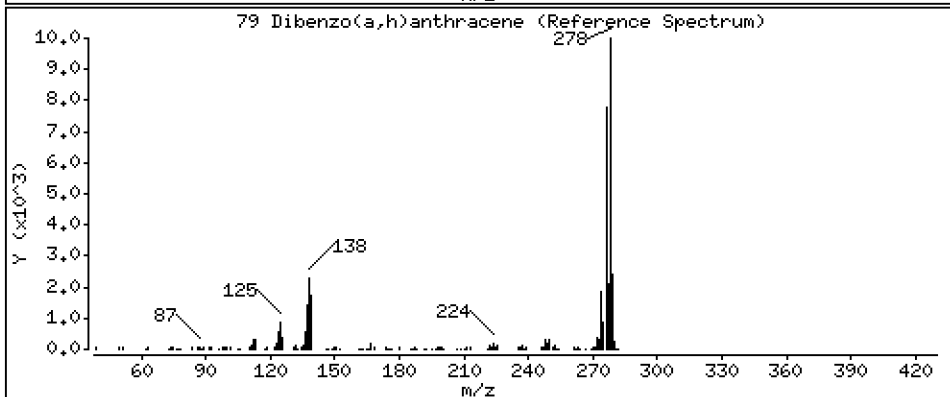
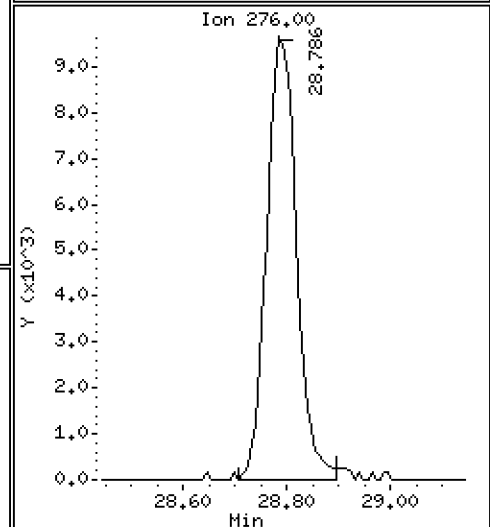
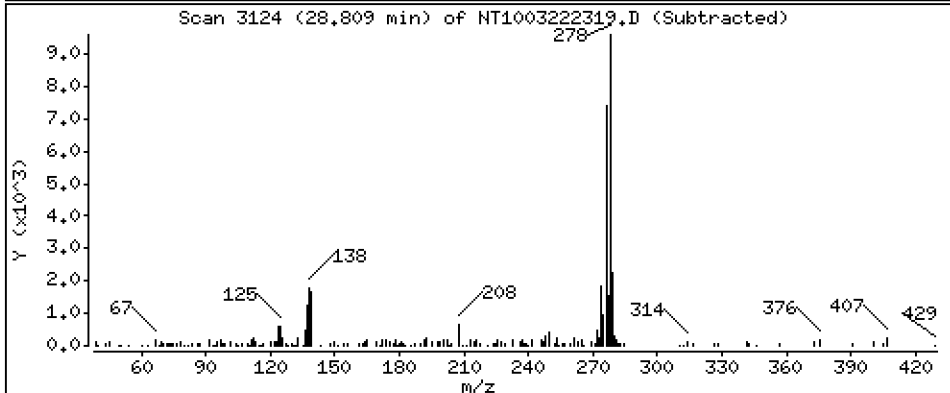
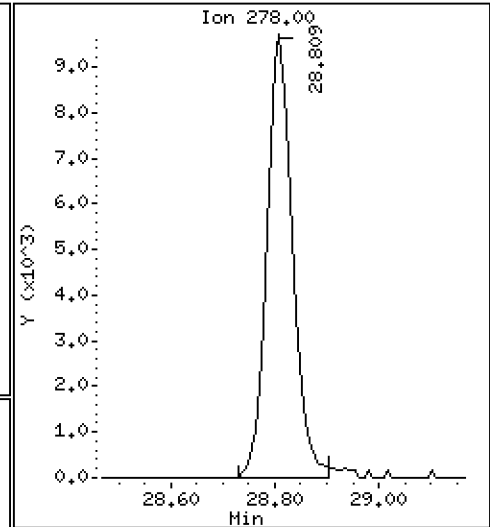
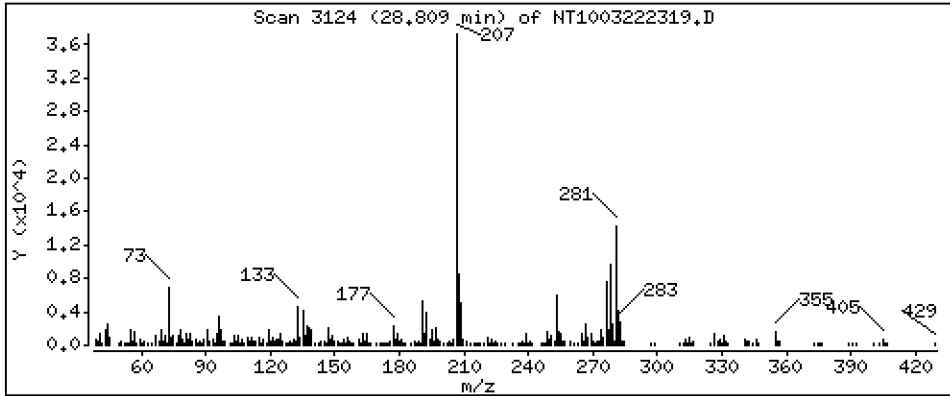
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2076 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

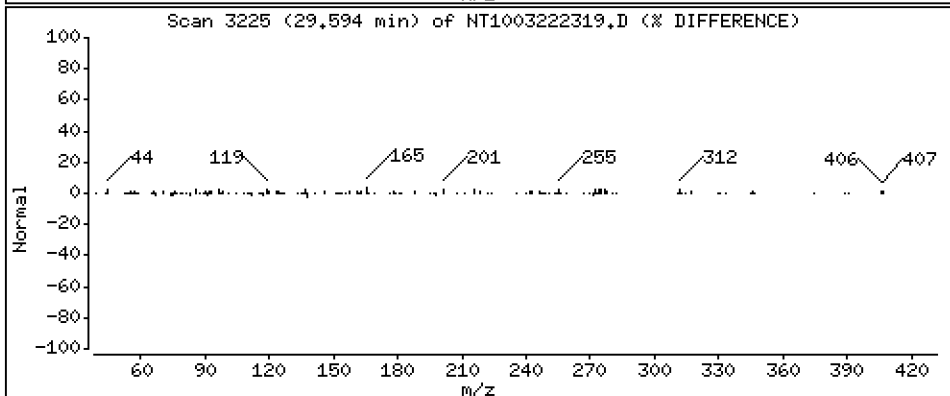
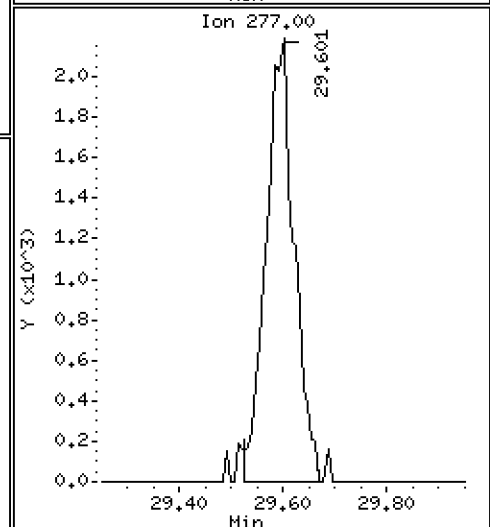
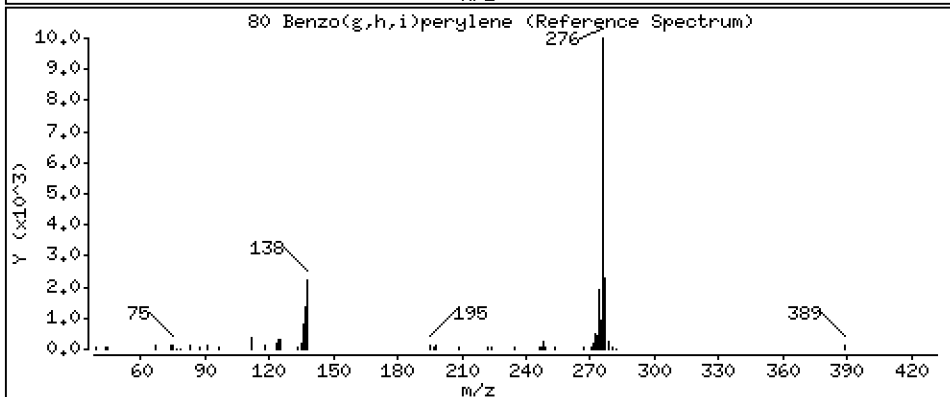
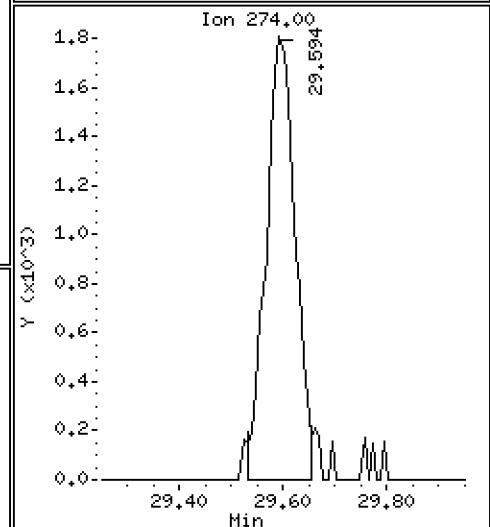
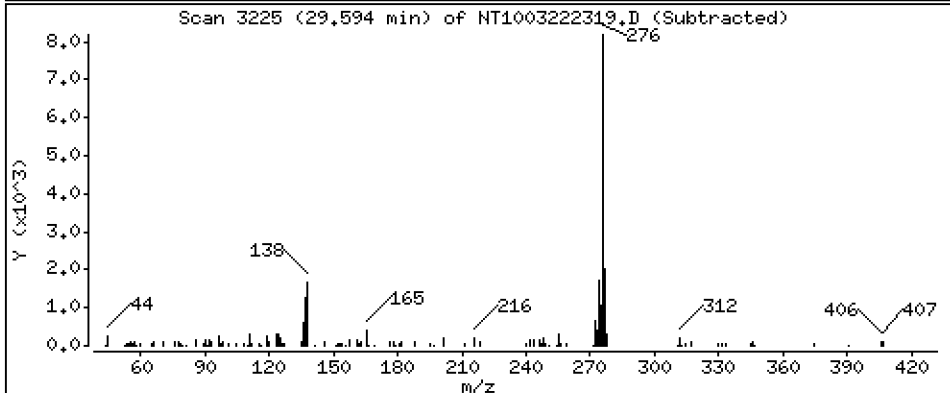
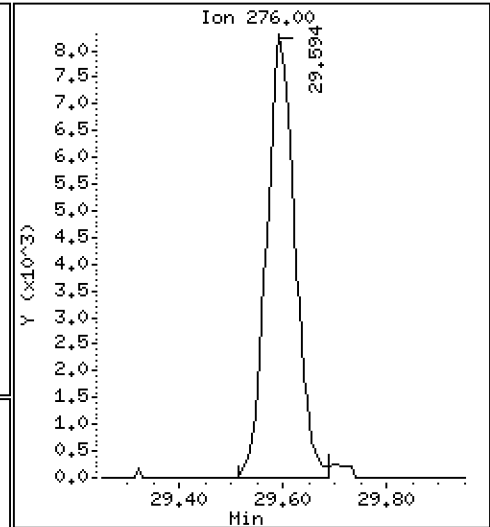
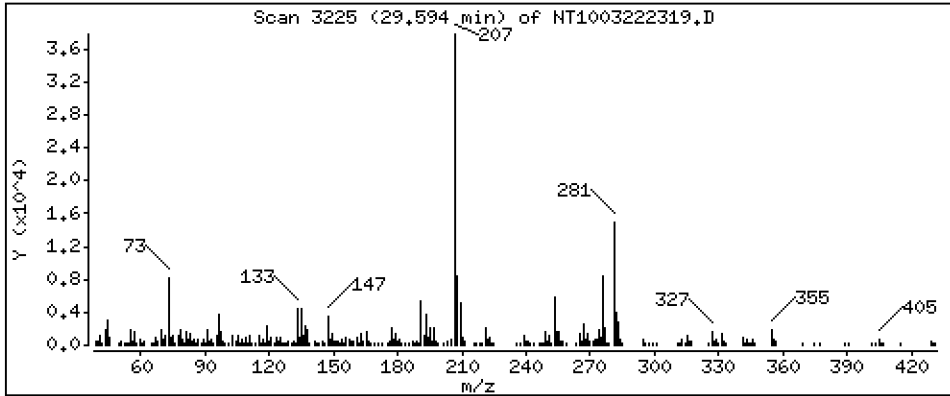
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,1897 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

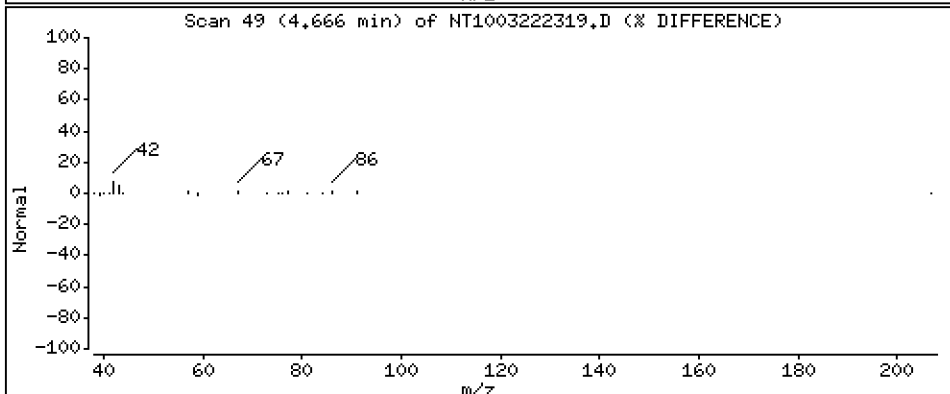
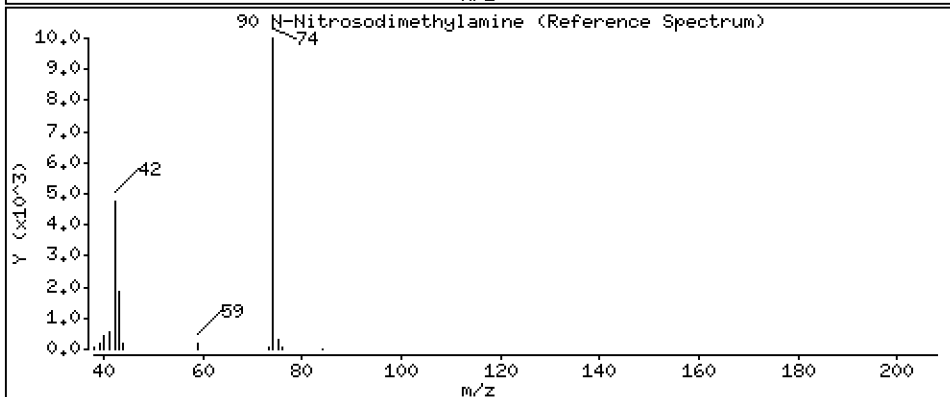
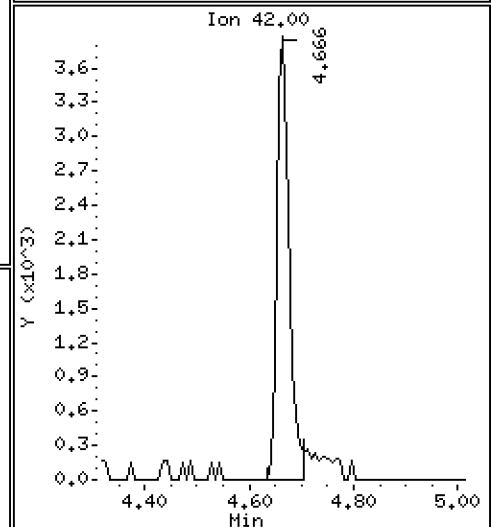
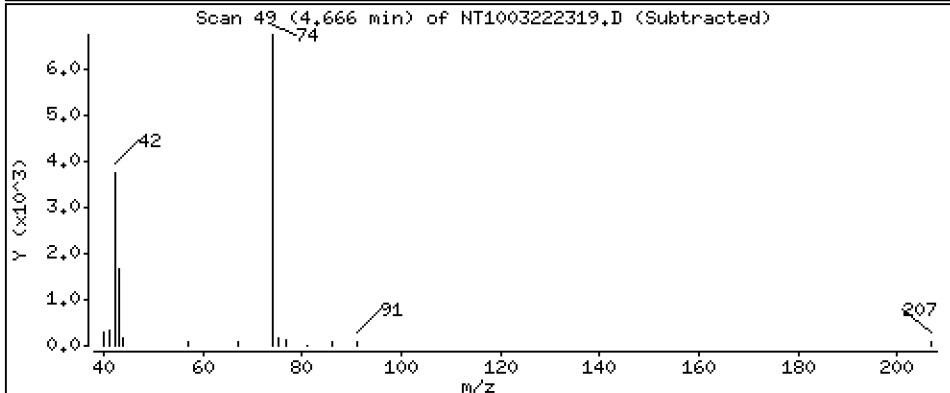
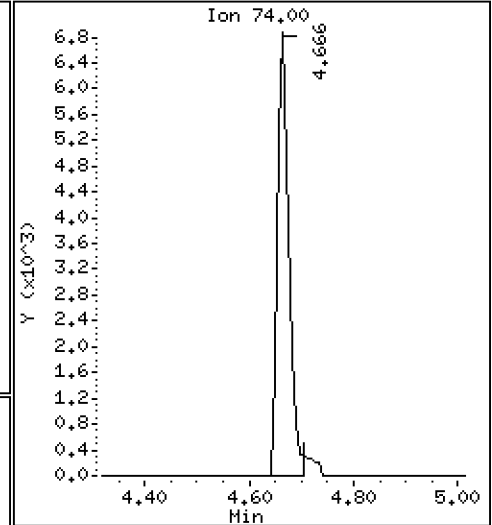
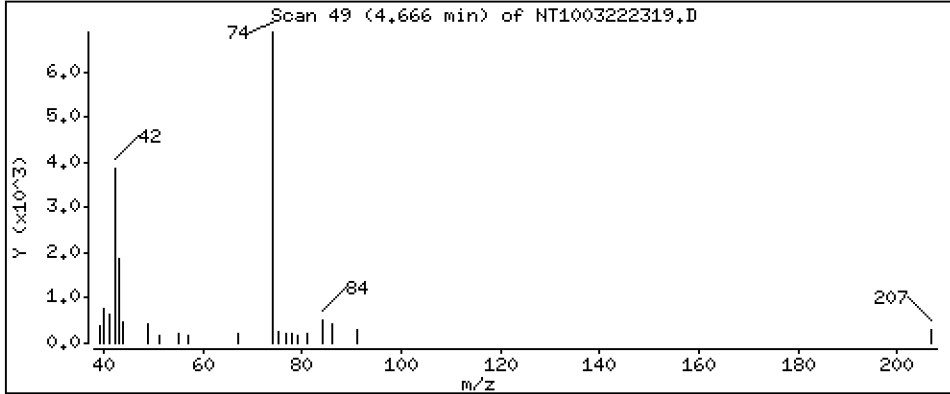
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,3705 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

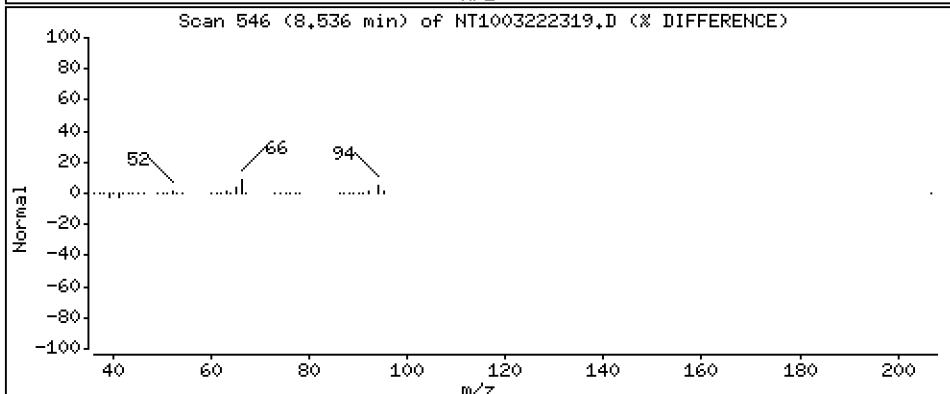
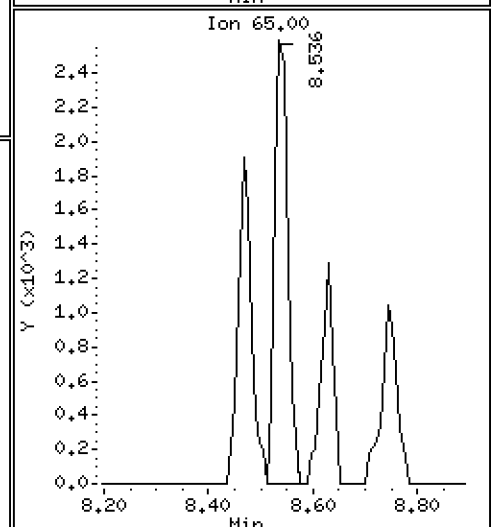
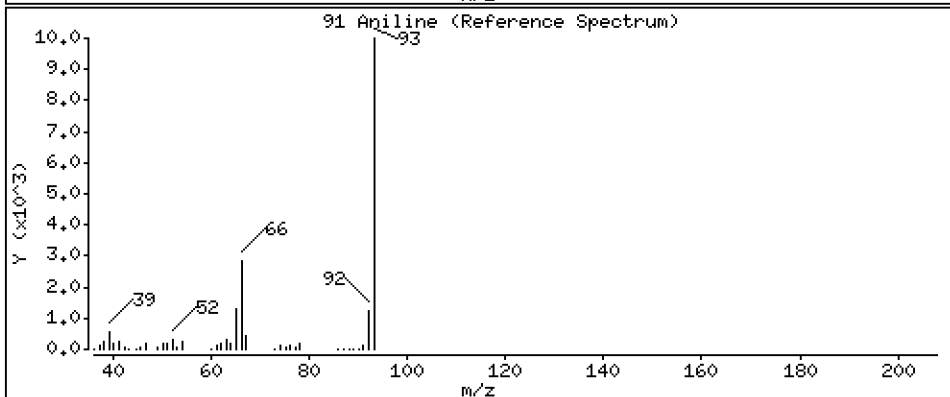
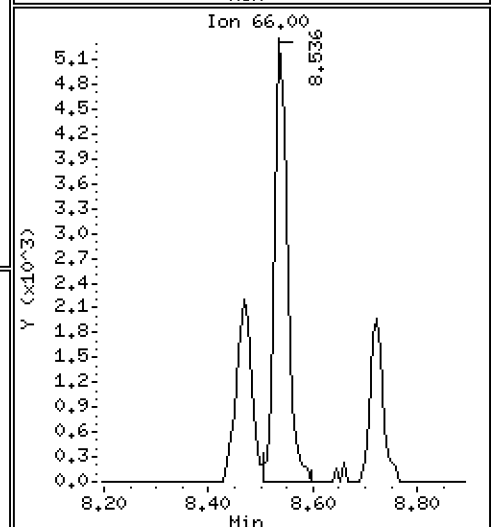
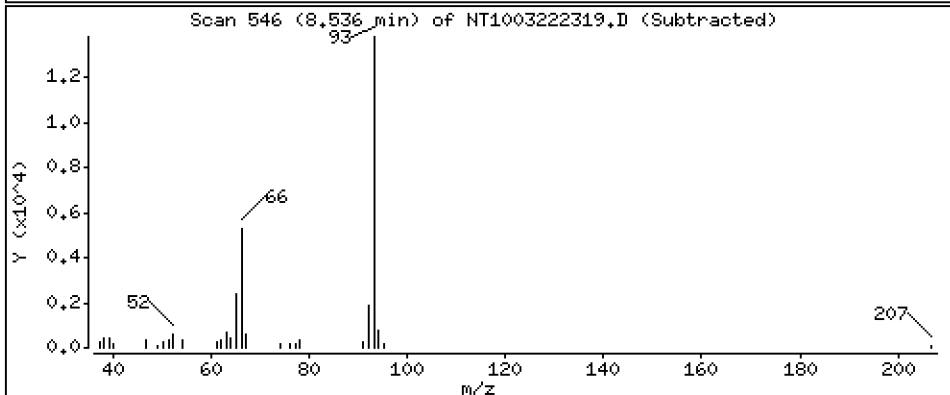
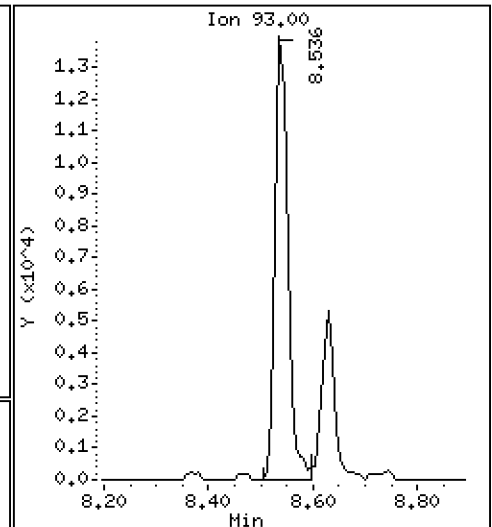
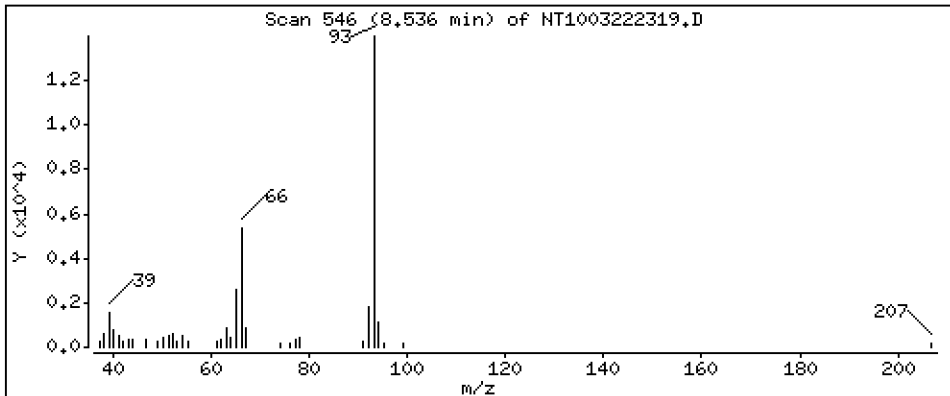
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.3971 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

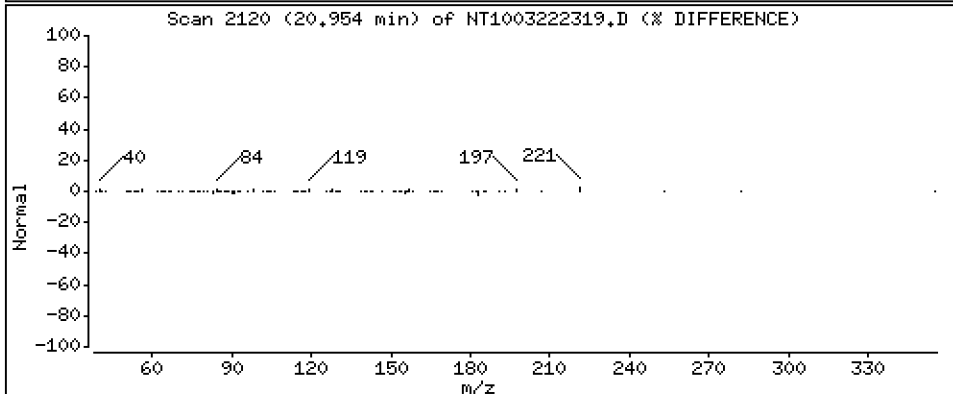
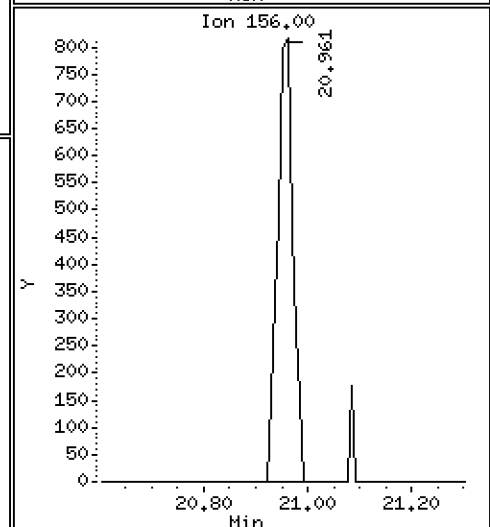
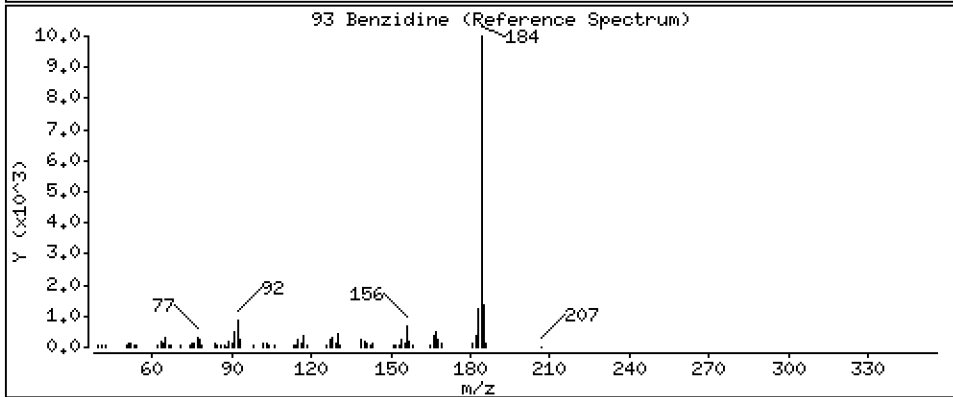
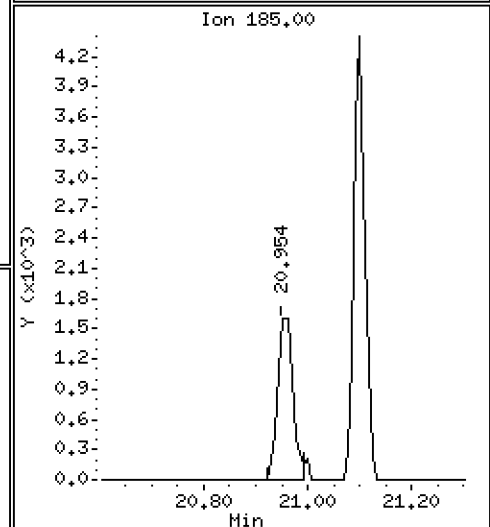
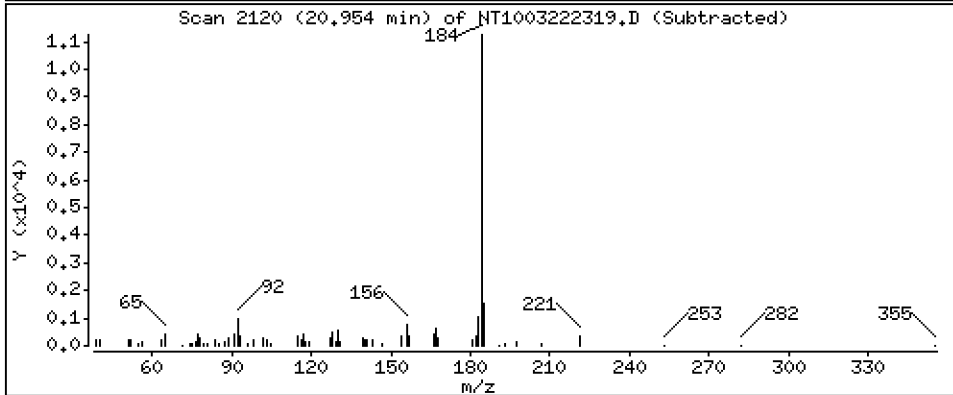
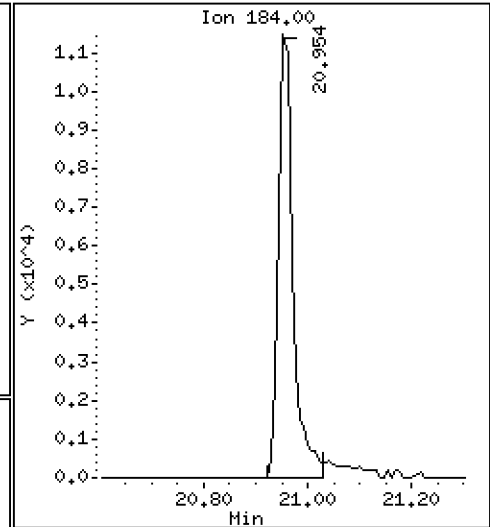
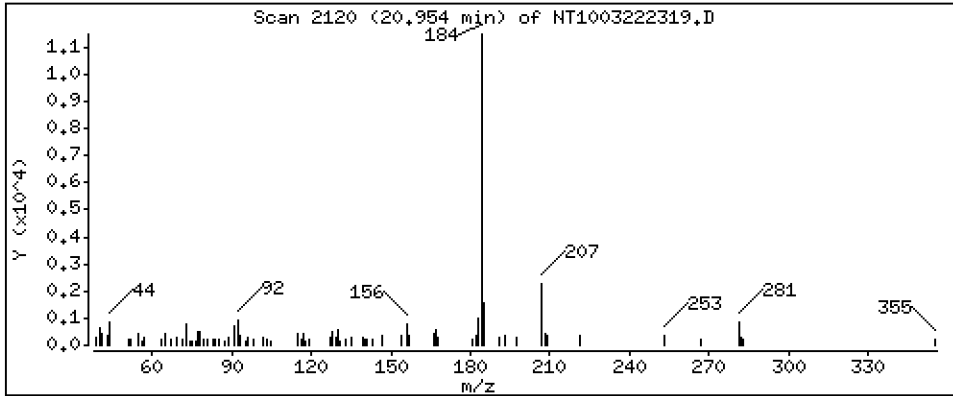
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,2928 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

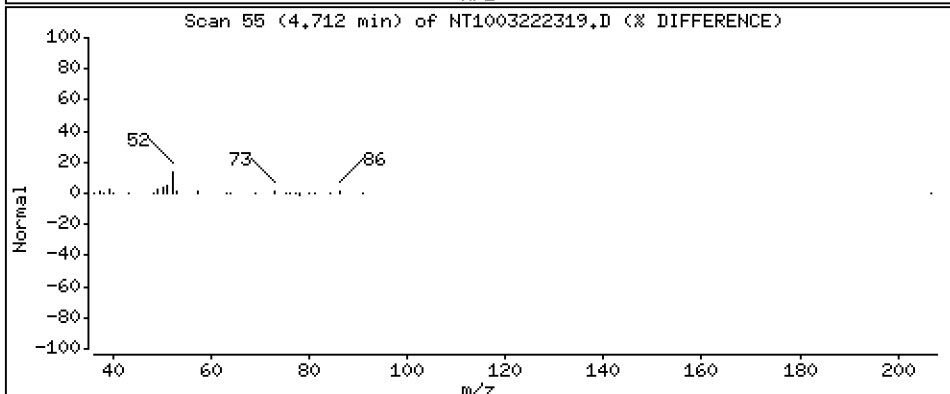
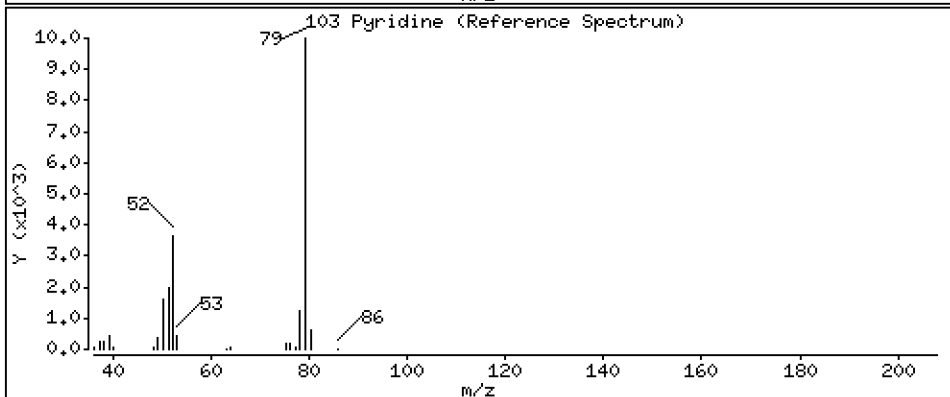
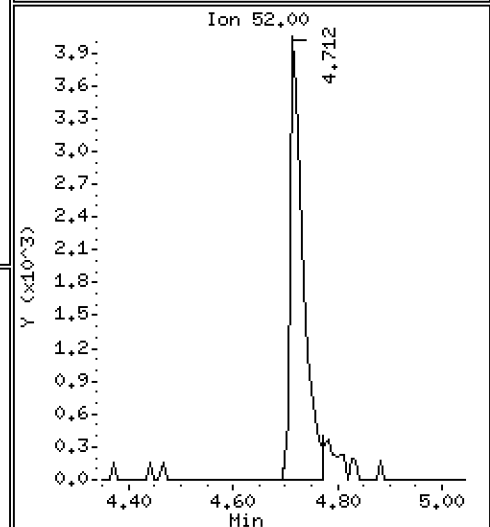
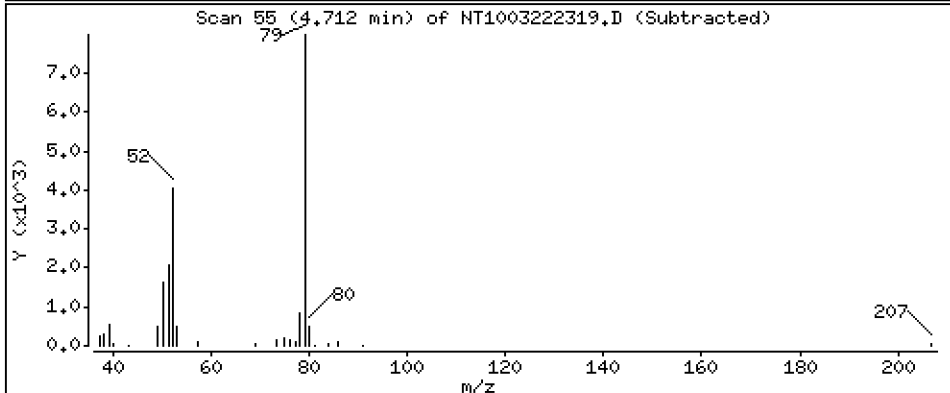
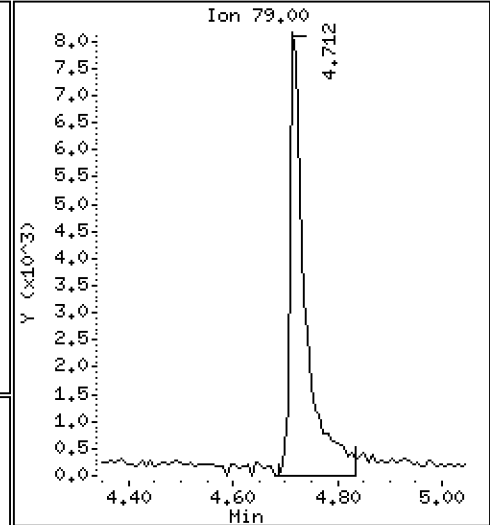
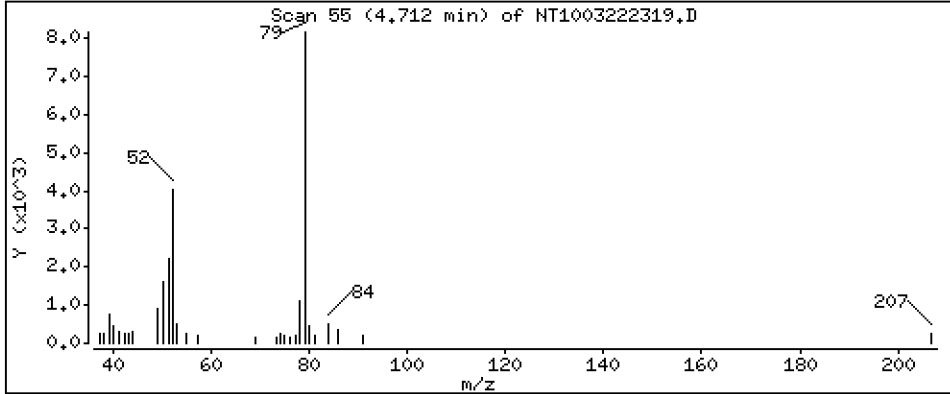
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,4289 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

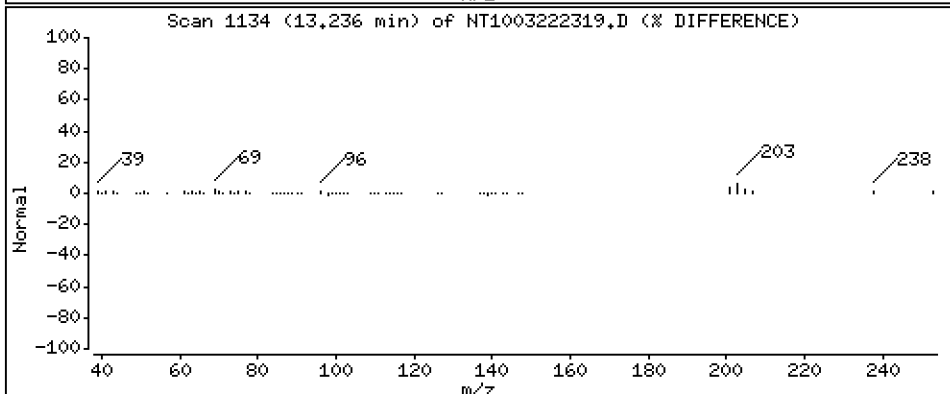
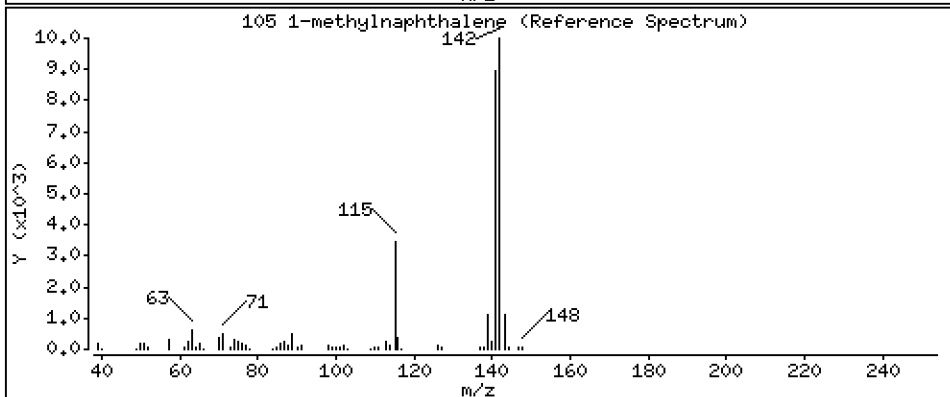
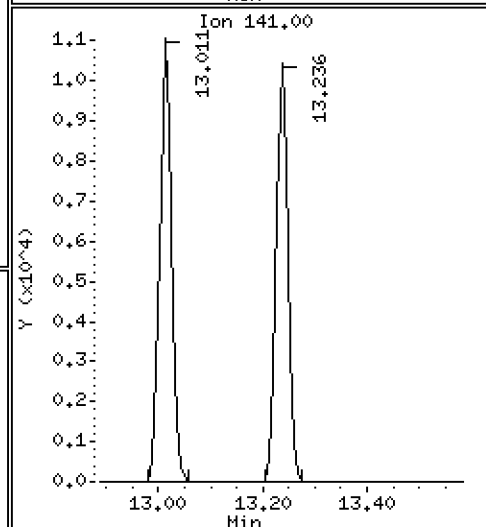
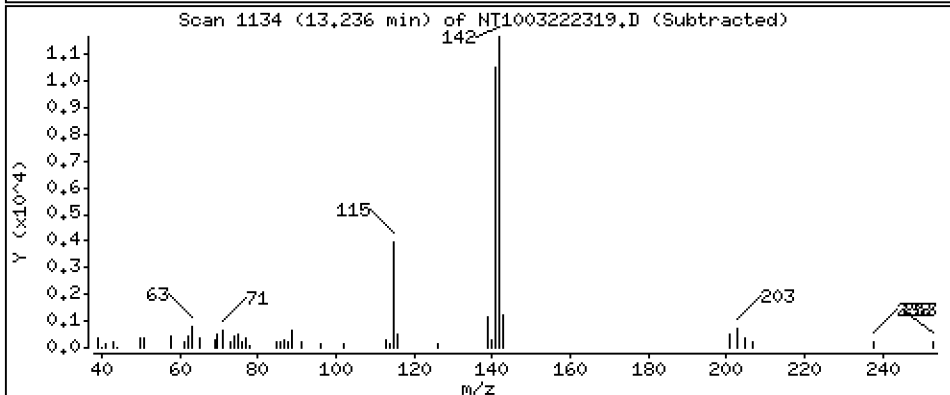
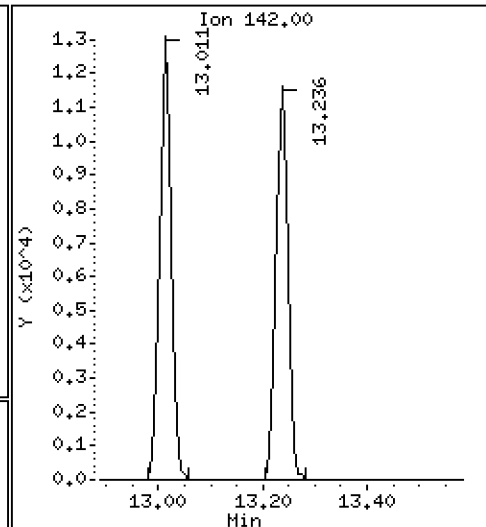
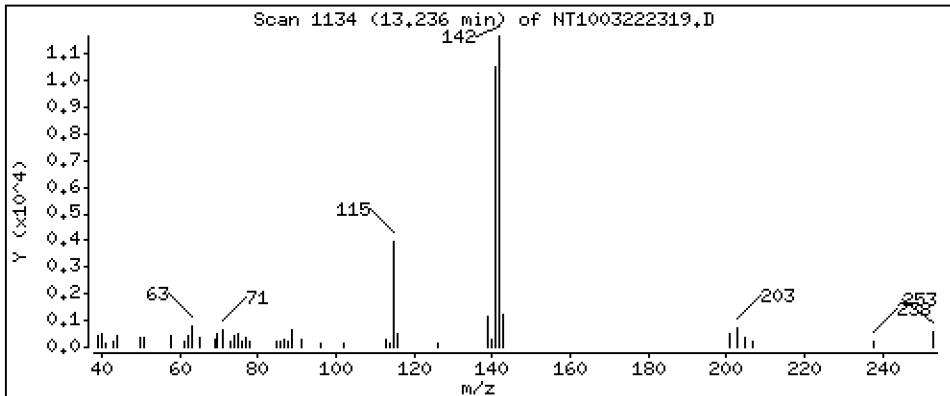
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,2075 ug/mL





Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

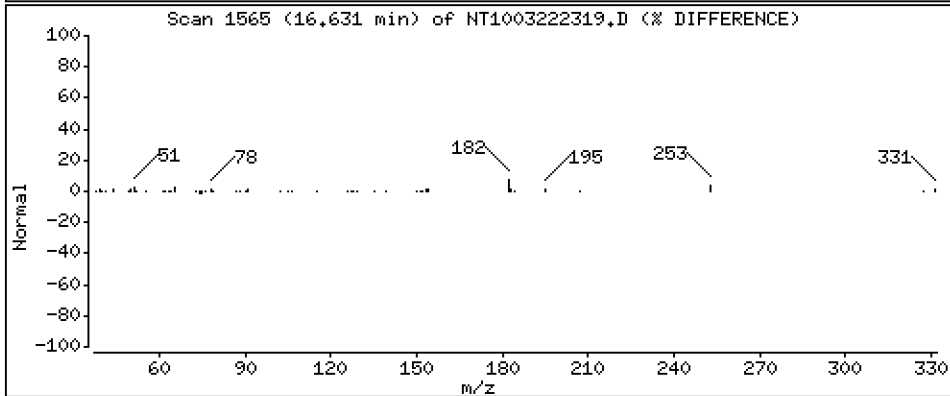
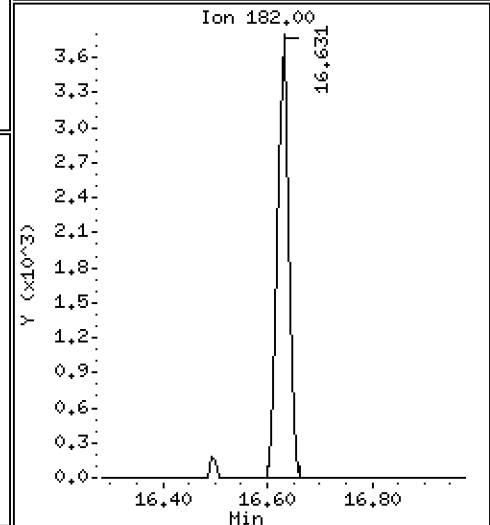
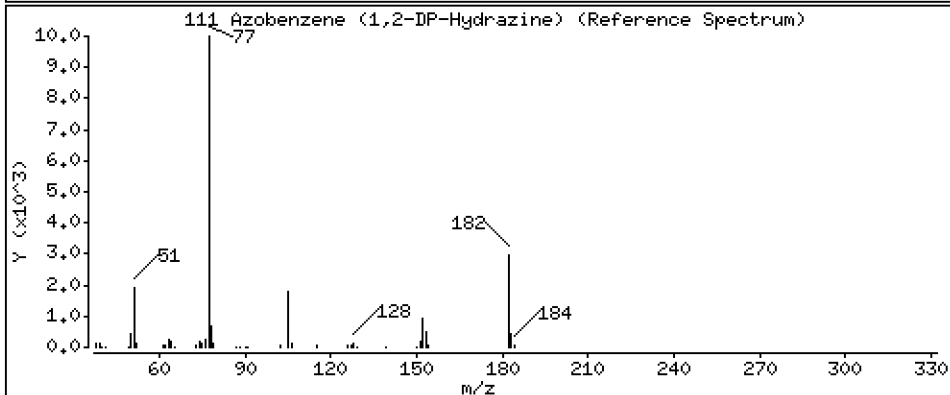
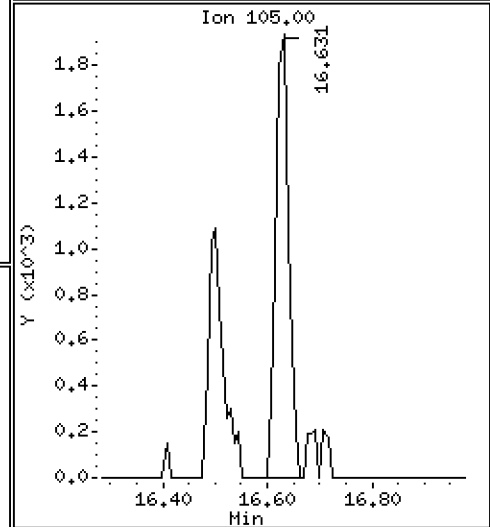
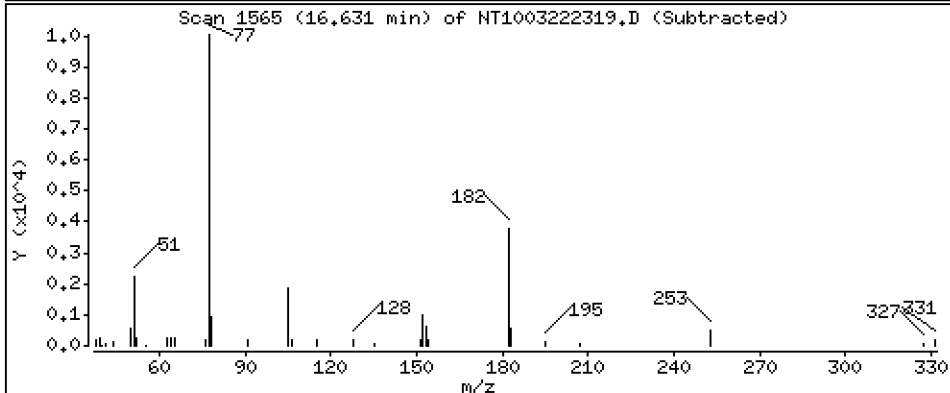
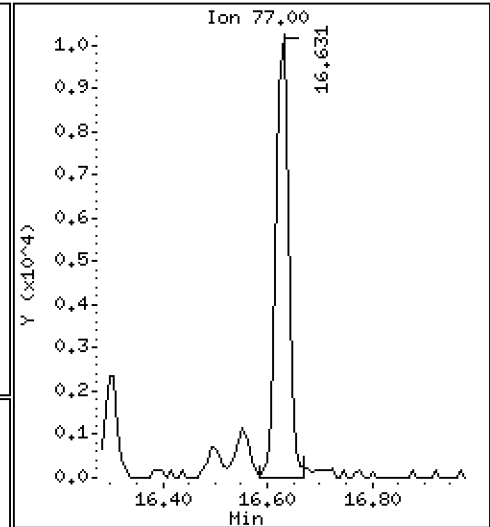
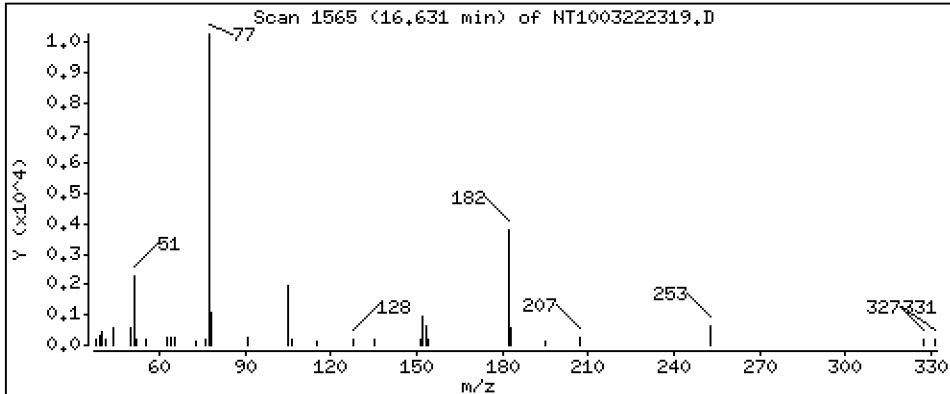
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,1755 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

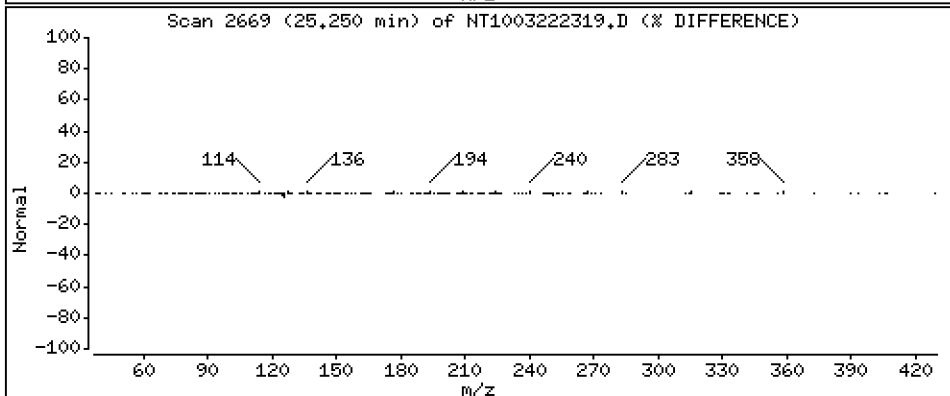
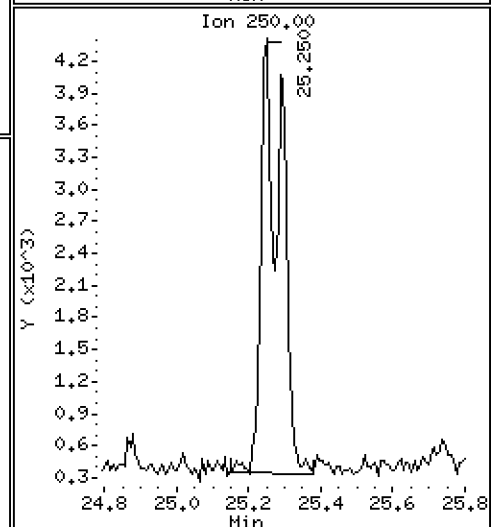
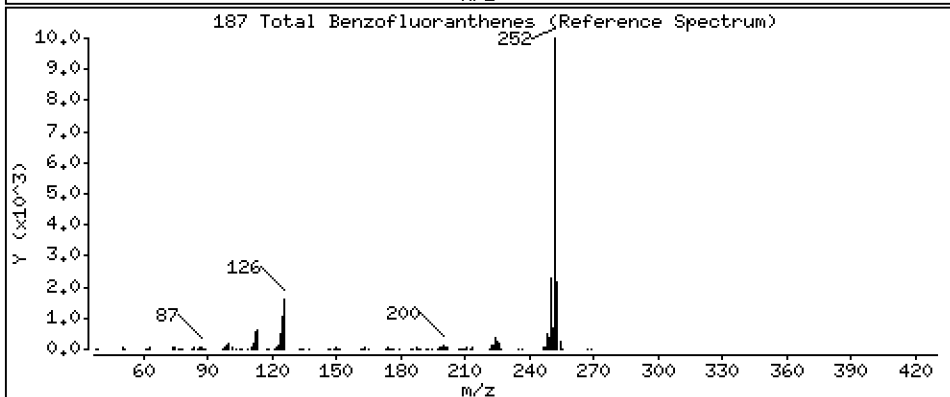
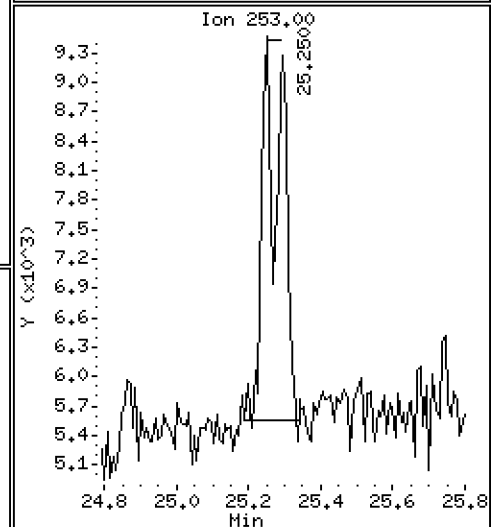
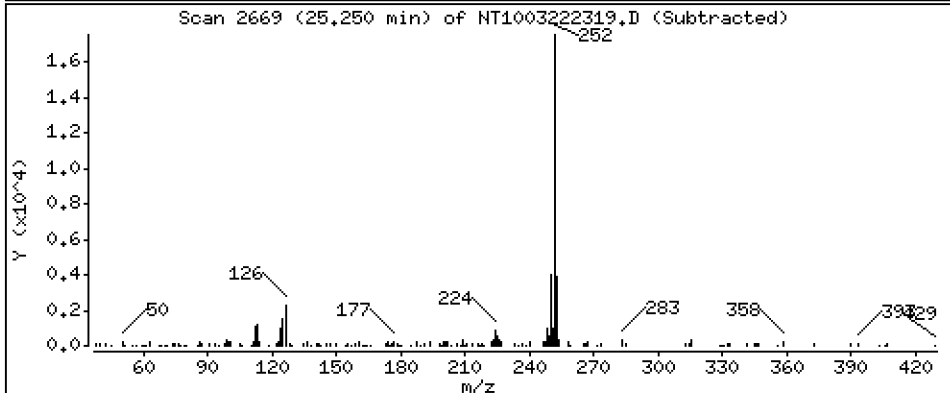
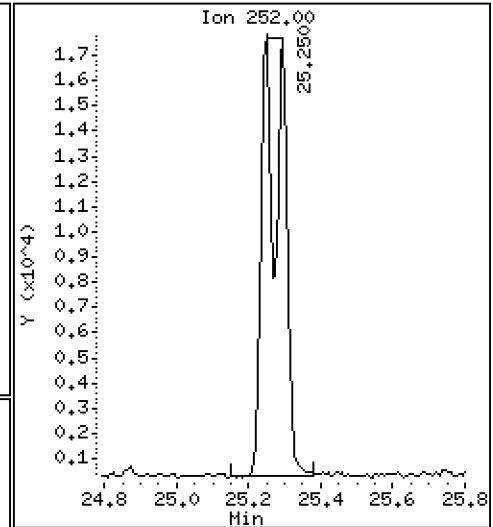
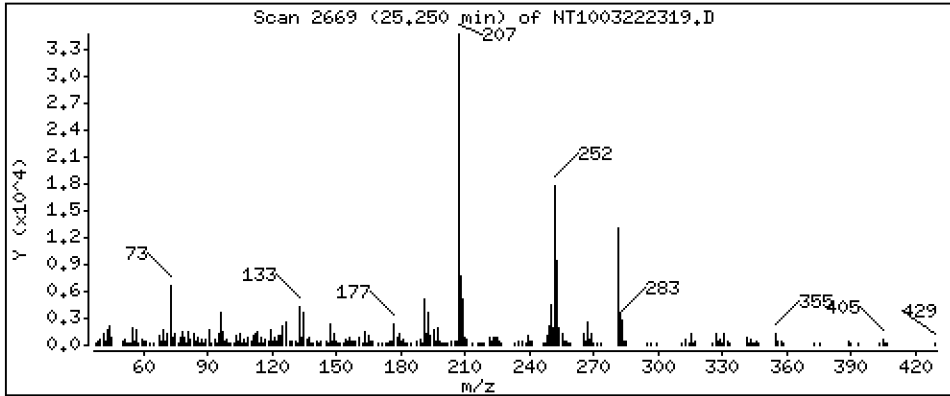
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,4281 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

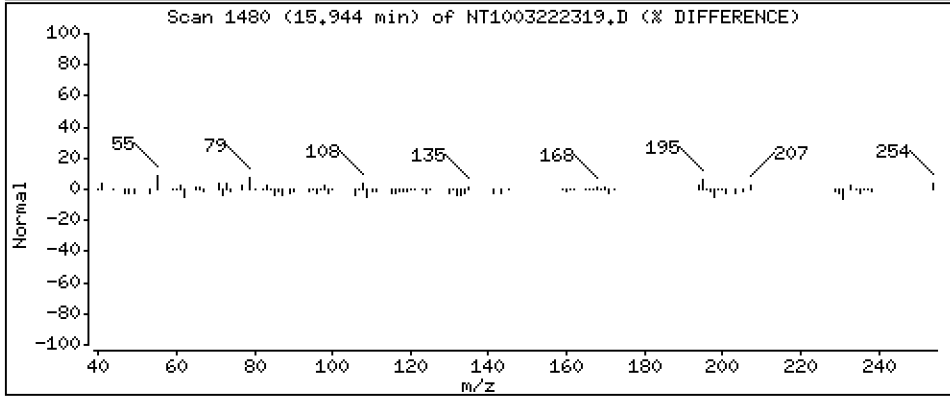
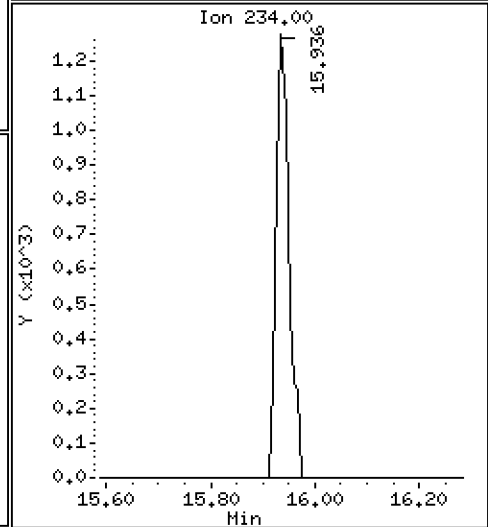
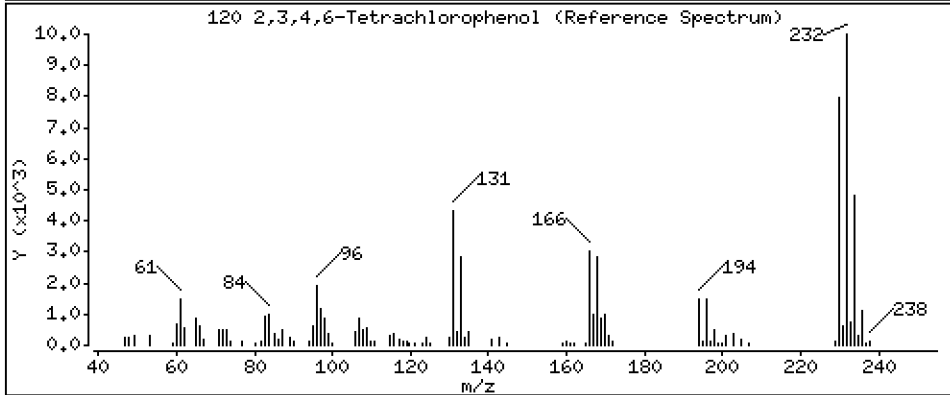
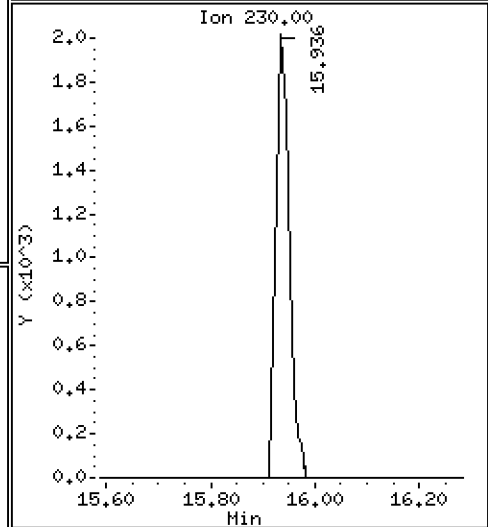
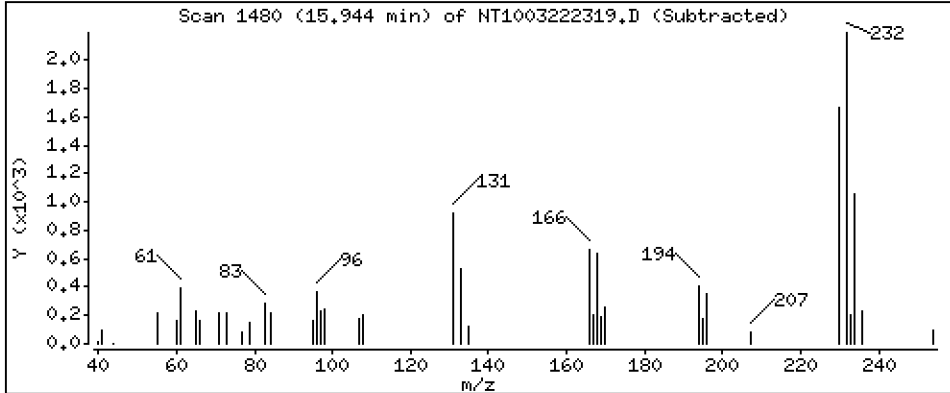
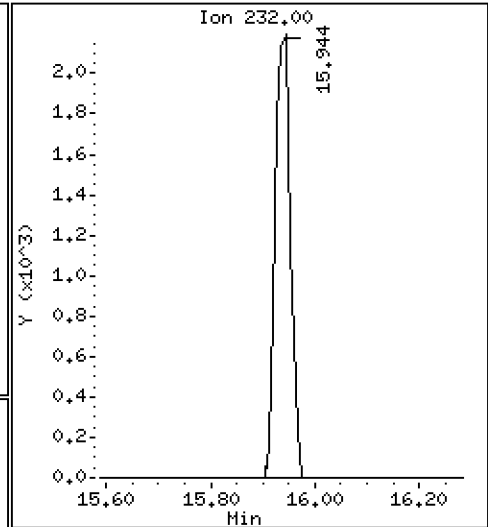
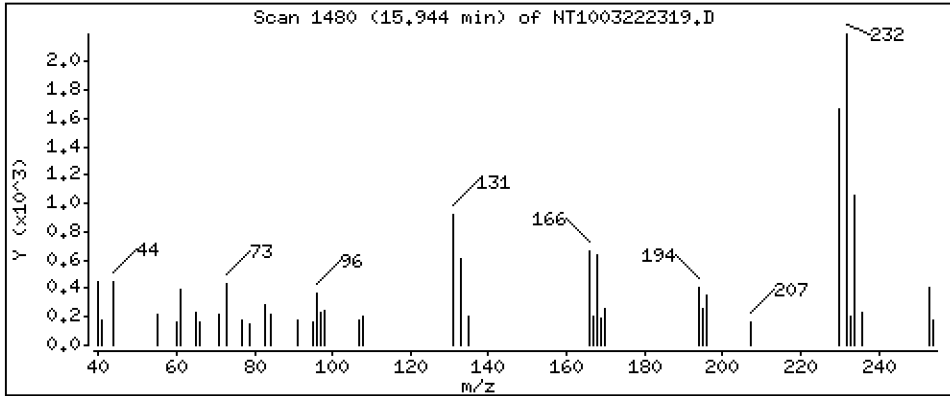
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1606 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222319.D  
 Lab Smp Id: SLC0397-LCV2  
 Inj Date : 23-MAR-2023 04:30  
 Operator : VTS  
 Smp Info : SLC0397-LCV2  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 10:11 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |              |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|--------------|
|                                 |       |     |        |        |         |          | ON-COLUMN      | FINAL        |
|                                 | MASS  |     |        |        |         |          | (ug/mL)        | (ug/mL)      |
| \$ 1 2-Fluorophenol             | 112   |     | 6.851  | 6.851  | (0.754) | 12449    | 0.30214        | 0.3021       |
| \$ 2 Phenol-d5                  | 99    |     | 8.443  | 8.450  | (0.929) | 15617    | 0.28893        | 0.2889       |
| 3 Phenol                        | 94    |     | 8.466  | 8.474  | (0.932) | 10766    | 0.19167        | 0.1917       |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.721  | 8.721  | (0.960) | 13942    | 0.30206        | 0.3021       |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.628  | 8.628  | (0.950) | 9035     | 0.21688        | 0.2169       |
| 6 2-Chlorophenol                | 128   |     | 8.744  | 8.752  | (0.963) | 9283     | 0.19311        | 0.1931       |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.015  | 9.022  | (0.992) | 10592    | 0.20841        | 0.2084       |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.085  | 9.085  | (1.000) | 136247   | 4.00000        |              |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.116  | 9.116  | (1.003) | 9814     | 0.19990        | 0.1999       |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.442  | 9.441  | (1.039) | 6870     | 0.20726        | 0.2073       |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.465  | 9.473  | (1.042) | 10082    | 0.20866        | 0.2087       |
| 11 Benzyl alcohol               | 108   |     | 9.356  | 9.356  | (1.030) | 5087     | 0.19295        | 0.1930       |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.659  | 9.659  | (1.063) | 2840     | 0.20015        | 0.2002 (M)   |
| 13 2-Methylphenol               | 108   |     | 9.589  | 9.589  | (1.056) | 7722     | 0.18859        | 0.1886       |
| 17 Hexachloroethane             | 117   |     | 10.063 | 10.063 | (1.108) | 2697     | 0.13389        | 0.1339       |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.915  | 9.915  | (1.091) | 5914     | 0.18292        | 0.1829       |
| 15 4-Methylphenol               | 108   |     | 9.861  | 9.861  | (1.085) | 8096     | 0.18766        | 0.1877       |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.179 | 10.179 | (0.880) | 9421     | 0.19414        | 0.1941       |
| 19 Nitrobenzene                 | 77    |     | 10.218 | 10.218 | (0.883) | 8578     | 0.18013        | 0.1801       |
| 20 Isophorone                   | 82    |     | 10.668 | 10.668 | (0.922) | 10843    | 0.17798        | 0.1780       |
| 21 2-Nitrophenol                | 139   |     | 10.850 | 10.850 | (0.938) | 5229     | 0.22580        | 0.2258       |
| 22 2,4-Dimethylphenol           | 107   |     | 10.901 | 10.901 | (0.942) | 16905    | 0.38648        | 0.3865       |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.096 | 11.096 | (0.959) | 8502     | 0.20893        | 0.2089       |
| 24 Benzoic acid                 | 105   |     | 11.003 | 11.105 | (0.951) | 10120    | 0.41639        | 0.4164       |
| 25 2,4-Dichlorophenol           | 162   |     | 11.308 | 11.308 | (0.977) | 14071    | 0.40199        | 0.4020       |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.487 | 11.487 | (0.993) | 9371     | 0.22807        | 0.2281       |
| * 27 Naphthalene-d8             | 136   |     | 11.572 | 11.572 | (1.000) | 480759   | 4.00000        |              |
| 28 Naphthalene                  | 128   |     | 11.611 | 11.618 | (1.003) | 26482    | 0.20793        | 0.2079       |
| 29 4-Chloroaniline              | 127   |     | 11.750 | 11.750 | (1.015) | 18795    | 0.37828        | 0.3783       |
| 30 Hexachlorobutadiene          | 225   |     | 11.974 | 11.981 | (1.035) | 5282     | 0.21939        | 0.2194       |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.717 | 12.717 | (1.099) | 13262    | 0.34999        | 0.3500       |
| 32 2-Methylnaphthalene          | 142   |     | 13.011 | 13.018 | (1.124) | 19639    | 0.21367        | 0.2137       |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.483 | 13.483 | (0.887) | 164      | 0.00676        | 0.006755 (H) |

| Compounds                         | QUANT SIG |        |        |         |          | CONCENTRATIONS       |                  |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 13.638 | 13.638 | (0.897) | 10131    | 0.39076              | 0.3908           |
| 35 2,4,5-Trichlorophenol          | 196       | 13.715 | 13.715 | (0.902) | 10922    | 0.37913              | 0.3791           |
| § 36 2-Fluorobiphenyl             | 172       | 13.800 | 13.800 | (0.908) | 22088    | 0.21286              | 0.2129           |
| 37 2-Chloronaphthalene            | 162       | 14.009 | 14.009 | (0.922) | 17170    | 0.20436              | 0.2044           |
| 38 2-Nitroaniline                 | 65        | 14.272 | 14.272 | (0.939) | 7095     | 0.30062              | 0.3006           |
| 39 Dimethylphthalate              | 163       | 14.706 | 14.706 | (0.967) | 18091    | 0.21230              | 0.2123           |
| 40 Acenaphthylene                 | 152       | 14.884 | 14.884 | (0.979) | 27205    | 0.20779              | 0.2078           |
| 41 2,6-Dinitrotoluene             | 165       | 14.845 | 14.845 | (0.977) | 7159     | 0.38889              | 0.3889           |
| * 42 Acenaphthene-d10             | 164       | 15.201 | 15.201 | (1.000) | 262317   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138       | 15.132 | 15.131 | (0.995) | 6137     | 0.29536              | 0.2954           |
| 44 Acenaphthene                   | 153       | 15.263 | 15.263 | (1.004) | 16698    | 0.20645              | 0.2064           |
| 45 2,4-Dinitrophenol              | 184       | 15.348 | 15.348 | (1.010) | 1058     | 0.09523              | 0.09523          |
| 46 Dibenzofuran                   | 168       | 15.595 | 15.595 | (1.026) | 24392    | 0.20451              | 0.2045           |
| 47 4-Nitrophenol                  | 109       | 15.472 | 15.464 | (1.018) | 2304     | 0.17630              | 0.1763 (M)       |
| 48 2,4-Dinitrotoluene             | 165       | 15.657 | 15.657 | (1.030) | 9017     | 0.32385              | 0.3239           |
| 50 Diethylphthalate               | 149       | 16.168 | 16.175 | (1.064) | 20952    | 0.25059              | 0.2506           |
| 49 Fluorene                       | 166       | 16.314 | 16.314 | (1.073) | 19868    | 0.21173              | 0.2117           |
| 51 4-Chlorophenyl-phenylether     | 204       | 16.299 | 16.306 | (1.072) | 9791     | 0.21942              | 0.2194           |
| 52 4-Nitroaniline                 | 138       | 16.407 | 16.406 | (1.079) | 5751     | 0.30713              | 0.3071           |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 16.499 | 16.507 | (0.904) | 4835     | 0.33061              | 0.3306           |
| 54 N-Nitrosodiphenylamine         | 169       | 16.553 | 16.561 | (0.907) | 13154    | 0.20335              | 0.2033           |
| § 55 2,4,6-Tribromophenol         | 330       | 16.846 | 16.846 | (1.108) | 3480     | 0.28198              | 0.2820           |
| 56 4-Bromophenyl-phenylether      | 248       | 17.309 | 17.316 | (0.948) | 5901     | 0.21806              | 0.2181           |
| 57 Hexachlorobenzene              | 284       | 17.626 | 17.634 | (0.966) | 7304     | 0.25743              | 0.2574           |
| 58 Pentachlorophenol              | 266       | 17.998 | 17.990 | (0.986) | 4172     | 0.24852              | 0.2485           |
| * 59 Phenanthrene-d10             | 188       | 18.253 | 18.260 | (1.000) | 483839   | 4.00000              |                  |
| 60 Phenanthrene                   | 178       | 18.299 | 18.307 | (1.003) | 27659    | 0.20965              | 0.2096           |
| 61 Anthracene                     | 178       | 18.400 | 18.400 | (1.008) | 25399    | 0.20069              | 0.2007           |
| 62 Carbazole                      | 167       | 18.733 | 18.732 | (1.026) | 22588    | 0.19918              | 0.1992           |
| 63 Di-n-butylphthalate            | 149       | 19.545 | 19.545 | (1.071) | 36410    | 0.23881              | 0.2388           |
| 64 Fluoranthene                   | 202       | 20.713 | 20.713 | (0.887) | 32088    | 0.18011              | 0.1801           |
| 65 Pyrene                         | 202       | 21.139 | 21.139 | (0.905) | 32728    | 0.17908              | 0.1791           |
| § 66 Terphenyl-d14                | 244       | 21.433 | 21.433 | (0.918) | 27249    | 0.19854              | 0.1985           |
| 67 Butylbenzylphthalate           | 149       | 22.378 | 22.377 | (0.958) | 13847    | 0.21572              | 0.2157           |
| 68 Benzo(a)anthracene             | 228       | 23.322 | 23.322 | (0.999) | 33588    | 0.21463              | 0.2146           |
| * 69 Chrysene-d12                 | 240       | 23.353 | 23.353 | (1.000) | 443368   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252       | 23.284 | 23.283 | (0.997) | 32318    | 0.64472              | 0.6447           |
| 71 Chrysene                       | 228       | 23.392 | 23.399 | (1.002) | 31246    | 0.20437              | 0.2044           |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 23.415 | 23.415 | (0.959) | 18609    | 0.18724              | 0.1872           |
| * 134 Di-n-octylphthalate-d4      | 153       | 24.422 | 24.421 | (1.000) | 679545   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149       | 24.437 | 24.437 | (1.001) | 35906    | 0.20191              | 0.2019           |
| 74 Benzo(b)fluoranthene           | 252       | 25.250 | 25.250 | (0.969) | 32510    | 0.19420              | 0.1942           |
| 75 Benzo(k)fluoranthene           | 252       | 25.296 | 25.296 | (0.971) | 38918    | 0.22895              | 0.2290           |
| 76 Benzo(a)pyrene                 | 252       | 25.924 | 25.923 | (0.995) | 32284    | 0.21570              | 0.2157           |
| * 77 Perylene-d12                 | 264       | 26.048 | 26.040 | (1.000) | 516437   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 28.785 | 28.793 | (1.105) | 38477    | 0.20207              | 0.2021           |
| 79 Dibenzo(a,h)anthracene         | 278       | 28.809 | 28.816 | (1.106) | 32816    | 0.20758              | 0.2076           |
| 80 Benzo(g,h,i)perylene           | 276       | 29.593 | 29.601 | (1.136) | 31258    | 0.18969              | 0.1897           |
| 90 N-Nitrosodimethylamine         | 74        | 4.665  | 4.665  | (0.514) | 9740     | 0.37053              | 0.3705           |
| 91 Aniline                        | 93        | 8.536  | 8.543  | (0.940) | 22857    | 0.39715              | 0.3971           |
| 93 Benzidine                      | 184       | 20.953 | 20.953 | (0.897) | 21428    | 0.29282              | 0.2928           |
| 103 Pyridine                      | 79        | 4.712  | 4.696  | (0.519) | 17313    | 0.42885              | 0.4289           |
| 105 1-methylnaphthalene           | 142       | 13.235 | 13.235 | (1.144) | 17473    | 0.20749              | 0.2075           |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 16.630 | 16.630 | (1.094) | 16387    | 0.17545              | 0.1755           |

| Compounds                     | QUANT SIG |  | CONCENTRATIONS |        |         |          |                      |                  |
|-------------------------------|-----------|--|----------------|--------|---------|----------|----------------------|------------------|
|                               | MASS      |  | RT             | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| =====                         | =====     |  | =====          | =====  | =====   | =====    | =====                | =====            |
| 187 Total Benzofluoranthenes  | 252       |  | 25.250         | 25.296 | (0.969) | 69195    | 0.42810              | 0.4281           |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 15.943         | 15.935 | (1.049) | 4240     | 0.16055              | 0.1606           |

QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-MAR-2023  
 Lab File ID: NT1003222319.D Calibration Time: 03:15  
 Lab Smp Id: SLC0397-LCV2  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 137603   | 68802      | 275206  | 136247 | -0.99  |
| 27 Naphthalene-d8     | 494588   | 247294     | 989176  | 480759 | -2.80  |
| 42 Acenaphthene-d10   | 278674   | 139337     | 557348  | 262317 | -5.87  |
| 59 Phenanthrene-d10   | 509229   | 254615     | 1018458 | 483839 | -4.99  |
| 69 Chrysene-d12       | 462271   | 231136     | 924542  | 443368 | -4.09  |
| 134 Di-n-octylphthala | 782572   | 391286     | 1565144 | 679545 | -13.17 |
| 77 Perylene-d12       | 551153   | 275577     | 1102306 | 516437 | -6.30  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.09     | 8.59     | 9.59  | 9.09   | 0.00  |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.57  | 0.00  |
| 42 Acenaphthene-d10   | 15.20    | 14.70    | 15.70 | 15.20  | 0.00  |
| 59 Phenanthrene-d10   | 18.26    | 17.76    | 18.76 | 18.25  | -0.04 |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.35  | 0.00  |
| 134 Di-n-octylphthala | 24.42    | 23.92    | 24.92 | 24.42  | 0.00  |
| 77 Perylene-d12       | 26.04    | 25.54    | 26.54 | 26.05  | 0.03  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222319.D

Lab ID: SLC0397-LCV2  
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 04:30

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND     |
|-------|---------|---------|--------------|
| 0.951 | 0.960   | -0.0088 | Benzoic acid |

RRT check based on Ccal File: NT1003222317.D

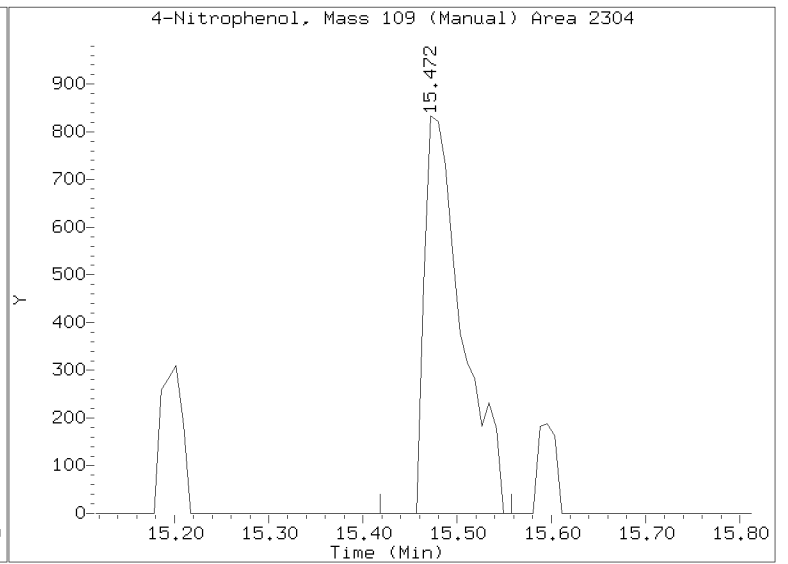
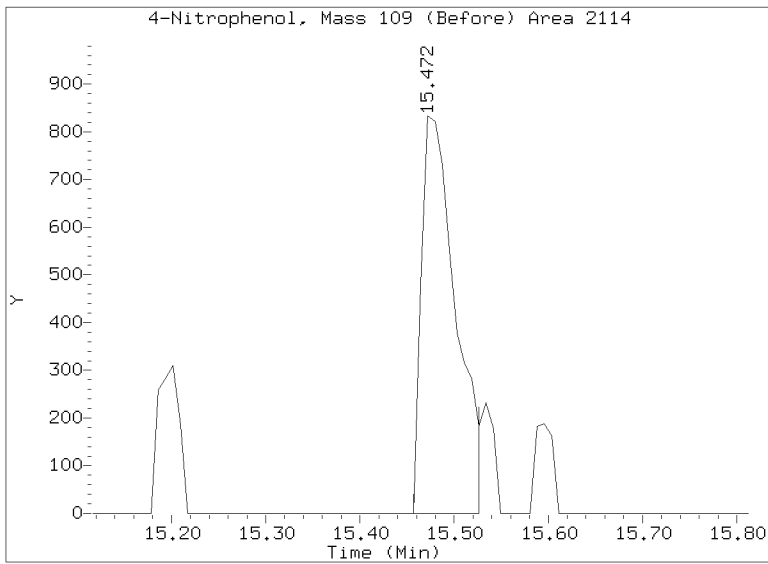
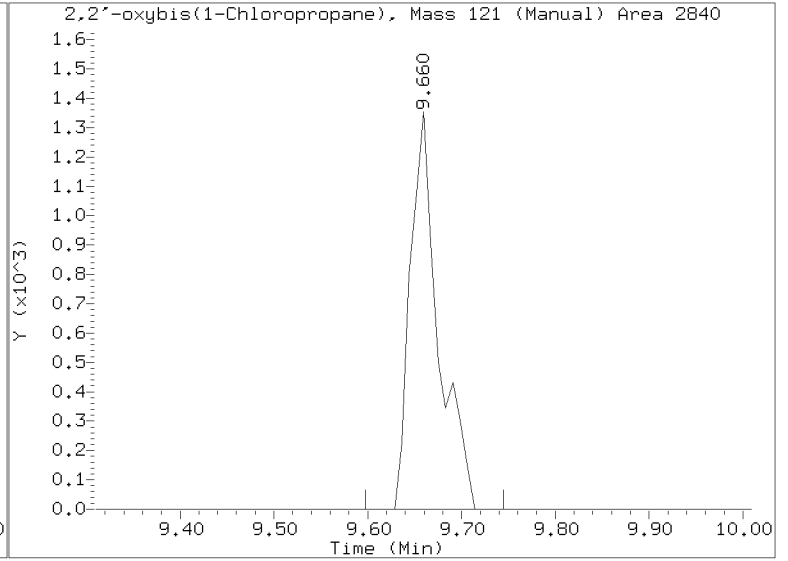
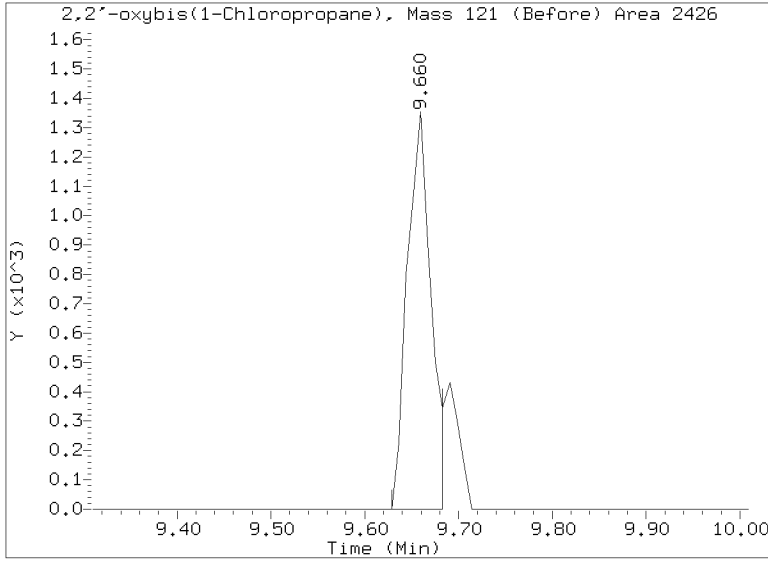
On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*



# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222319.D  
Injection Date: 23-MAR-2023 04:30  
Lab ID: SLC0397-LCV2 Client ID:  
Report Date: 03/25/2023 10:11





INITIAL CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022813.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-ICV1

Injection Time: 08:50

Sequence Name: ABN 5

| COMPOUND                     | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |         |
|------------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
|                              |      | STD           | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT   |
| Phenol                       | A    | 5.0000        | 5.4  | 1.8373500       | 1.9892870 |     | 8.3          | +/-20   |
| bis(2-chloroethyl) ether     | A    | 5.0000        | 5.0  | 1.5312550       | 1.2623390 |     | 1.0          | +/-20   |
| 2-Chlorophenol               | A    | 5.0000        | 5.2  | 1.3533690       | 1.4155920 |     | 4.6          | +/-20   |
| 1,3-Dichlorobenzene          | A    | 5.0000        | 4.9  | 1.4914740       | 1.4756410 |     | -1.1         | +/-20   |
| 1,4-Dichlorobenzene          | A    | 5.0000        | 4.8  | 1.4740600       | 1.4234390 |     | -3.4         | +/-20   |
| 1,2-Dichlorobenzene          | A    | 5.0000        | 4.9  | 1.4134490       | 1.3890030 |     | -1.7         | +/-20   |
| Benzyl Alcohol               | A    | 5.0000        | 5.1  | 0.6439892       | 0.8355513 |     | 2.7          | +/-20   |
| 2,2'-Oxybis(1-chloropropane) | A    | 5.0000        | 5.0  | 0.3811859       | 0.3781475 |     | -0.8         | +/-20   |
| 2-Methylphenol               | A    | 5.0000        | 5.4  | 1.1607310       | 1.2510650 |     | 7.8          | +/-20   |
| Hexachloroethane             | A    | 5.0000        | 5.2  | 0.5535732       | 0.5800342 |     | 4.8          | +/-20   |
| N-Nitroso-di-n-Propylamine   | A    | 5.0000        | 5.4  | 0.8837751       | 0.9626080 |     | 8.9          | +/-20   |
| 4-Methylphenol               | A    | 5.0000        | 5.0  | 1.1353050       | 1.3167480 |     | -0.6         | +/-20   |
| Nitrobenzene                 | A    | 5.0000        | 5.5  | 0.3760061       | 0.4112261 |     | 9.4          | +/-20   |
| Isophorone                   | A    | 5.0000        | 4.5  | 0.4996273       | 0.5265892 |     | -9.0         | +/-20   |
| 2-Nitrophenol                | A    | 5.0000        | 5.5  | 0.1467597       | 0.2166496 |     | 10.5         | +/-20   |
| 2,4-Dimethylphenol           | A    | 10.000        | 10.4 | 0.3427845       | 0.3563619 |     | 4.0          | +/-20   |
| Bis(2-Chloroethoxy)methane   | A    | 5.0000        | 5.1  | 0.3780235       | 0.3827157 |     | 1.2          | +/-20   |
| 2,4-Dichlorophenol           | A    | 10.000        | 6.1  | 0.2946235       | 0.2050094 |     | -39.3        | +/-20 * |
| 1,2,4-Trichlorobenzene       | A    | 5.0000        | 4.9  | 0.3874001       | 0.3821795 |     | -1.3         | +/-20   |
| Naphthalene                  | A    | 5.0000        | 5.0  | 1.0669580       | 1.0585500 |     | -0.8         | +/-20   |
| Benzoic acid                 | A    | 20.000        | 24.0 | 0.1358415       | 0.1632782 |     | 20.2         | +/-20   |
| 4-Chloroaniline              | A    | 10.000        | 10.4 | 0.4563565       | 0.4724354 |     | 3.5          | +/-20   |
| Hexachlorobutadiene          | A    | 5.0000        | 5.5  | 0.2363916       | 0.2605959 |     | 10.2         | +/-20   |
| 4-Chloro-3-Methylphenol      | A    | 10.000        | 10.8 | 0.3085482       | 0.3338432 |     | 8.2          | +/-20   |
| 2-Methylnaphthalene          | A    | 5.0000        | 5.1  | 0.7901196       | 0.8120346 |     | 2.8          | +/-20   |
| Hexachlorocyclopentadiene    | A    | 10.000        | 9.9  | 0.3443795       | 0.4209140 |     | -0.5         | +/-20   |
| 2,4,6-Trichlorophenol        | A    | 10.000        | 10.8 | 0.3907367       | 0.4234038 |     | 8.4          | +/-20   |
| 2,4,5-Trichlorophenol        | A    | 10.000        | 11.2 | 0.4224702       | 0.4738087 |     | 12.2         | +/-20   |
| 2-Chloronaphthalene          | A    | 5.0000        | 5.1  | 1.2480280       | 1.2621490 |     | 1.1          | +/-20   |
| 2-Nitroaniline               | A    | 10.000        | 11.1 | 0.3254949       | 0.3605404 |     | 10.8         | +/-20   |

\* Values outside of QC limits



**INITIAL CALIBRATION CHECK**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022813.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-ICV1

Injection Time: 08:50

Sequence Name: ABN 5

| COMPOUND                   | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |       |
|----------------------------|------|---------------|------|-----------------|-----------|-----|--------------|-------|
|                            |      | STD           | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT |
| Acenaphthylene             | A    | 5.0000        | 5.1  | 1.8312950       | 1.8818650 |     | 2.8          | +/-20 |
| Dimethylphthalate          | A    | 5.0000        | 5.2  | 1.2581570       | 1.3136930 |     | 4.4          | +/-20 |
| 2,6-Dinitrotoluene         | A    | 10.000        | 10.4 | 0.2948315       | 0.3062512 |     | 3.9          | +/-20 |
| Acenaphthene               | A    | 5.0000        | 5.0  | 1.1724930       | 1.1674520 |     | -0.4         | +/-20 |
| 3-Nitroaniline             | A    | 10.000        | 10.4 | 0.3021810       | 0.3126155 |     | 3.5          | +/-20 |
| 2,4-Dinitrophenol          | A    | 20.000        | 19.1 | 0.1437811       | 0.1855311 |     | -4.7         | +/-20 |
| Dibenzofuran               | A    | 5.0000        | 5.0  | 1.8656210       | 1.8775800 |     | 0.6          | +/-20 |
| 4-Nitrophenol              | A    | 10.000        | 10.2 | 0.1323756       | 0.1574063 |     | 2.3          | +/-20 |
| 2,4-Dinitrotoluene         | A    | 10.000        | 10.5 | 0.4244424       | 0.4463798 |     | 5.2          | +/-20 |
| Fluorene                   | A    | 5.0000        | 4.9  | 1.5719010       | 1.5407510 |     | -2.0         | +/-20 |
| 4-Chlorophenylphenyl ether | A    | 5.0000        | 4.8  | 0.8363665       | 0.8083093 |     | -3.4         | +/-20 |
| Diethyl phthalate          | A    | 5.0000        | 5.3  | 1.1765440       | 1.2546840 |     | 6.6          | +/-20 |
| 4-Nitroaniline             | A    | 10.000        | 11.0 | 0.2995450       | 0.3306344 |     | 10.4         | +/-20 |
| 4,6-Dinitro-2-methylphenol | A    | 20.000        | 20.0 | 0.0975169       | 0.1341127 |     | -0.2         | +/-20 |
| N-Nitrosodiphenylamine     | A    | 5.0000        | 5.0  | 0.5026629       | 0.5076086 |     | 1.0          | +/-20 |
| 4-Bromophenyl phenyl ether | A    | 5.0000        | 5.2  | 0.2209900       | 0.2307385 |     | 4.4          | +/-20 |
| Hexachlorobenzene          | A    | 5.0000        | 5.1  | 0.2429692       | 0.2456849 |     | 1.1          | +/-20 |
| Pentachlorophenol          | A    | 10.000        | 10.2 | 0.0938263       | 0.1222091 |     | 2.0          | +/-20 |
| Phenanthrene               | A    | 5.0000        | 5.0  | 1.0640870       | 1.0574490 |     | -0.6         | +/-20 |
| Anthracene                 | A    | 5.0000        | 5.3  | 1.0059580       | 1.0748550 |     | 6.8          | +/-20 |
| Carbazole                  | A    | 5.0000        | 4.6  | 0.8816605       | 0.8049119 |     | -8.7         | +/-20 |
| Di-n-Butylphthalate        | A    | 5.0000        | 5.0  | 0.9469101       | 1.1183910 |     | 0.04         | +/-20 |
| Fluoranthene               | A    | 5.0000        | 5.3  | 1.5175930       | 1.6177310 |     | 6.6          | +/-20 |
| Pyrene                     | A    | 5.0000        | 5.5  | 1.6000330       | 1.7614290 |     | 10.1         | +/-20 |
| Butylbenzylphthalate       | A    | 5.0000        | 5.1  | 0.4562763       | 0.5661279 |     | 2.0          | +/-20 |
| Benzo(a)anthracene         | A    | 5.0000        | 5.3  | 1.3399020       | 1.4216220 |     | 6.1          | +/-20 |
| 3,3'-Dichlorobenzidine     | A    | 15.000        | 12.1 | 0.3826468       | 0.3082468 |     | -19.5        | +/-20 |
| Chrysene                   | A    | 5.0000        | 5.0  | 1.2879040       | 1.2981690 |     | 0.8          | +/-20 |
| bis(2-Ethylhexyl)phthalate | A    | 5.0000        | 5.2  | 0.5161185       | 0.6309180 |     | 3.9          | +/-20 |
| Di-n-Octylphthalate        | A    | 5.0000        | 4.9  | 1.0531830       | 1.0406710 |     | -1.2         | +/-20 |

\* Values outside of QC limits



INITIAL CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022813.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-ICV1

Injection Time: 08:50

Sequence Name: ABN 5

| COMPOUND                  | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |       |
|---------------------------|------|---------------|------|-----------------|-----------|-----|--------------|-------|
|                           |      | STD           | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT |
| Benzofluoranthenes, Total | A    | 10.000        | 10.4 | 1.2927770       | 1.3452390 |     | 4.1          | +/-20 |
| Benzo(a)pyrene            | A    | 5.0000        | 5.4  | 1.1338150       | 1.2253330 |     | 8.1          | +/-20 |
| Indeno(1,2,3-cd)pyrene    | A    | 5.0000        | 5.3  | 1.4272450       | 1.5084330 |     | 5.7          | +/-20 |
| Dibenzo(a,h)anthracene    | A    | 5.0000        | 5.2  | 1.2122070       | 1.2596120 |     | 3.9          | +/-20 |
| Benzo(g,h,i)perylene      | A    | 5.0000        | 5.3  | 1.2448130       | 1.3072840 |     | 5.0          | +/-20 |
| 1-Methylnaphthalene       | A    | 5.0000        | 5.1  | 0.7274101       | 0.7487216 |     | 2.9          | +/-20 |
| 2-Fluorophenol            | A    | 7.5000        | 8.89 | 1.0846110       | 1.2848420 |     | 18.5         | +/-20 |
| Phenol-d5                 | A    | 7.5000        | 8.39 | 1.5399100       | 1.7226200 |     | 11.9         | +/-20 |
| 2-Chlorophenol-d4         | A    | 7.5000        | 8.12 | 1.3093910       | 1.4179910 |     | 8.3          | +/-20 |
| 1,2-Dichlorobenzene-d4    | A    | 5.0000        | 4.91 | 0.9857584       | 0.9685117 |     | -1.7         | +/-20 |
| Nitrobenzene-d5           | A    | 5.0000        | 5.55 | 0.3912861       | 0.4346122 |     | 11.1         | +/-20 |
| 2-Fluorobiphenyl          | A    | 5.0000        | 4.96 | 1.5568580       | 1.5451030 |     | -0.8         | +/-20 |
| 2,4,6-Tribromophenol      | A    | 7.5000        | 7.47 | 0.1850894       | 0.2209858 |     | -0.4         | +/-20 |
| p-Terphenyl-d14           | A    | 5.0000        | 5.11 | 1.2319340       | 1.2596940 |     | 2.3          | +/-20 |
| 1,4-Dichlorobenzene-d4    | A    | 4.0000        | 4.0  | 28848.5700      | 1.0000    |     | 0.0          |       |
| Naphthalene-d8            | A    | 4.0000        | 4.0  | 103564.8000     | 1.0000    |     | 0.0          |       |
| Acenaphthene-d10          | A    | 4.0000        | 4.0  | 62651.1800      | 1.0000    |     | 0.0          |       |
| Phenanthrene-d10          | A    | 4.0000        | 4.0  | 123124.0000     | 1.0000    |     | 0.0          |       |
| Chrysene-d12              | A    | 4.0000        | 4.0  | 97764.2100      | 1.0000    |     | 0.0          |       |
| Di-n-Octylphthalate-d4    | A    | 4.0000        | 4.0  | 118315.4000     | 1.0000    |     | 0.0          |       |
| Perylene-d12              | A    | 4.0000        | 4.0  | 94293.2500      | 1.0000    |     | 0.0          |       |

\* Values outside of QC limits

\* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022813.D

Date : 01-MAR-2023 08:50

Client ID:

Sample Info: SLB0374-ICW1

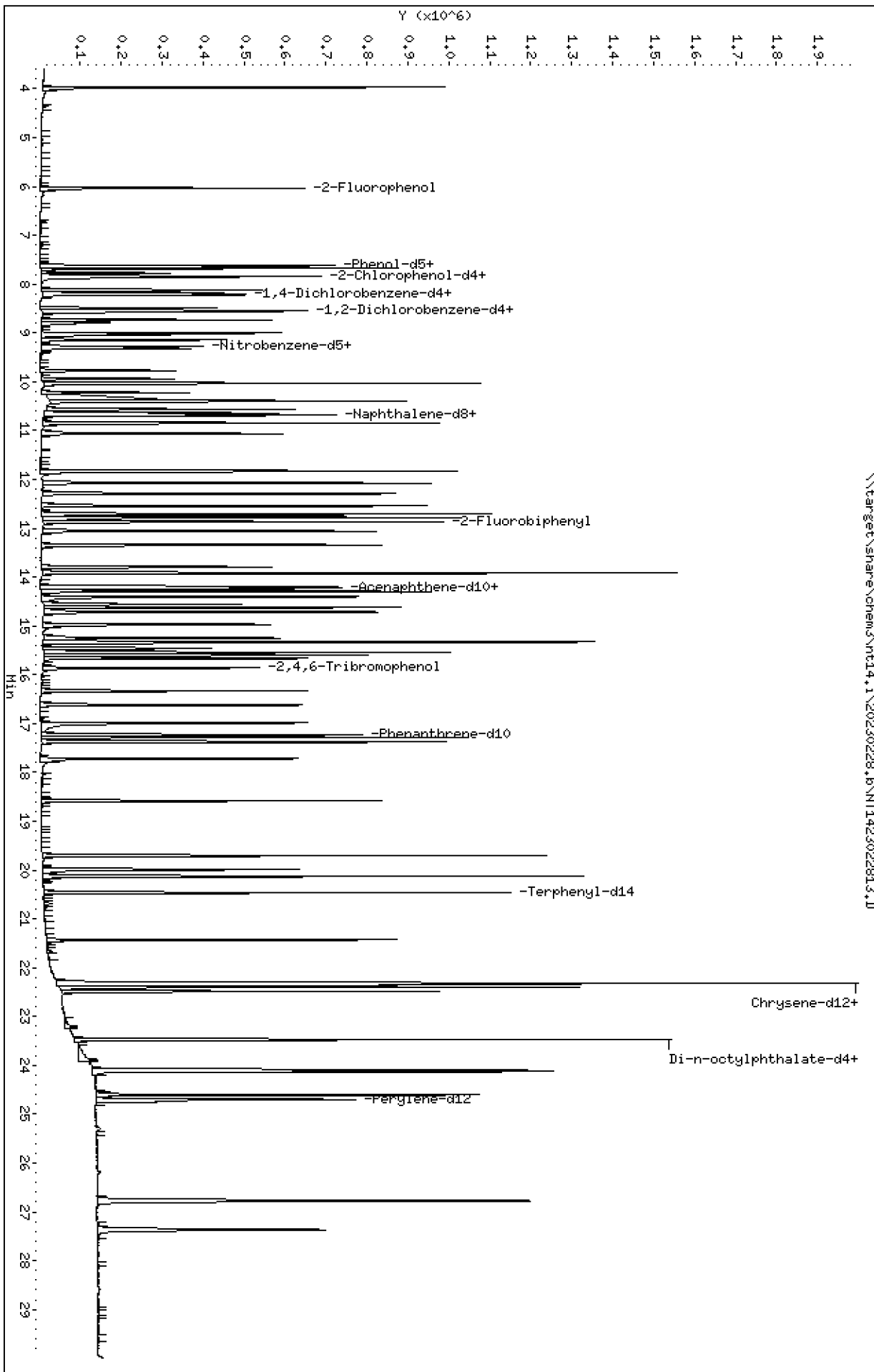
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022813.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022813.D  
 Lab Smp Id: SLB0374-ICV1  
 Inj Date : 01-MAR-2023 08:50 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-ICV1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 14-Mar-2023 08:52 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 4 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS |         |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|---------|
|                                 |       |     |        |        |         |          | CAL-AMT | ON-COL  |
|                                 | MASS  |     |        |        |         |          | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol             | 112   |     | 6.035  | 6.050  | (0.737) | 314368   | 7.50000 | 8.885   |
| \$ 2 Phenol-d5                  | 99    |     | 7.619  | 7.642  | (0.930) | 421481   | 7.50000 | 8.390   |
| 3 Phenol                        | 94    |     | 7.642  | 7.665  | (0.933) | 324485   | 5.00000 | 5.413   |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.843  | 7.850  | (0.957) | 346946   | 7.50000 | 8.122   |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.773  | 7.781  | (0.949) | 205908   | 5.00000 | 5.048   |
| 6 2-Chlorophenol                | 128   |     | 7.866  | 7.881  | (0.960) | 230906   | 5.00000 | 5.230   |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.121  | 8.129  | (0.991) | 240701   | 5.00000 | 4.947   |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.191  | 8.199  | (1.000) | 130493   | 4.00000 |         |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.222  | 8.230  | (1.004) | 232186   | 5.00000 | 4.828   |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.540  | 8.548  | (1.043) | 157980   | 5.00000 | 4.913   |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.564  | 8.571  | (1.045) | 226569   | 5.00000 | 4.914   |
| 11 Benzyl alcohol               | 108   |     | 8.494  | 8.509  | (1.037) | 136292   | 5.00000 | 5.135   |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.789  | 8.789  | (1.073) | 61682    | 5.00000 | 4.960   |
| 13 2-Methylphenol               | 108   |     | 8.734  | 8.750  | (1.066) | 204069   | 5.00000 | 5.389   |
| 17 Hexachloroethane             | 117   |     | 9.146  | 9.154  | (1.117) | 94613    | 5.00000 | 5.239   |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.045  | 9.053  | (1.104) | 157017   | 5.00000 | 5.446   |
| 15 4-Methylphenol               | 108   |     | 9.006  | 9.022  | (1.099) | 214783   | 5.00000 | 4.970   |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.278  | 9.285  | (0.872) | 254529   | 5.00000 | 5.554   |
| 19 Nitrobenzene                 | 77    |     | 9.317  | 9.324  | (0.875) | 240833   | 5.00000 | 5.468   |
| 20 Isophorone                   | 82    |     | 9.767  | 9.774  | (0.918) | 308395   | 5.00000 | 4.549   |
| 21 2-Nitrophenol                | 139   |     | 9.937  | 9.945  | (0.934) | 126880   | 5.00000 | 5.526   |
| 22 2,4-Dimethylphenol           | 107   |     | 10.030 | 10.046 | (0.943) | 417404   | 10.0000 | 10.40   |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.224 | 10.224 | (0.961) | 224136   | 5.00000 | 5.062   |
| 24 Benzoic acid                 | 105   |     | 10.348 | 10.364 | (0.972) | 382493   | 20.0000 | 24.04   |
| 25 2,4-Dichlorophenol           | 162   |     | 10.403 | 10.410 | (0.978) | 240126   | 10.0000 | 6.074   |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.565 | 10.572 | (0.993) | 223822   | 5.00000 | 4.933   |
| * 27 Naphthalene-d8             | 136   |     | 10.642 | 10.649 | (1.000) | 468517   | 4.00000 |         |
| 28 Naphthalene                  | 128   |     | 10.688 | 10.688 | (1.004) | 619936   | 5.00000 | 4.961   |
| 29 4-Chloroaniline              | 127   |     | 10.843 | 10.850 | (1.019) | 553360   | 10.0000 | 10.35   |
| 30 Hexachlorobutadiene          | 225   |     | 11.059 | 11.066 | (1.039) | 152617   | 5.00000 | 5.512   |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.833 | 11.848 | (1.112) | 391028   | 10.0000 | 10.82   |
| 32 2-Methylnaphthalene          | 142   |     | 12.073 | 12.080 | (1.134) | 475565   | 5.00000 | 5.139   |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.545 | 12.545 | (0.881) | 302110   | 10.0000 | 9.949   |

| Compounds                         | QUANT SIG |        | AMOUNTS |         |          |                    |                   |
|-----------------------------------|-----------|--------|---------|---------|----------|--------------------|-------------------|
|                                   | MASS      | RT     | EXP RT  | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 12.707 | 12.723  | (0.893) | 303897   | 10.0000            | 10.84             |
| 35 2,4,5-Trichlorophenol          | 196       | 12.785 | 12.800  | (0.898) | 340075   | 10.0000            | 11.22             |
| § 36 2-Fluorobiphenyl             | 172       | 12.870 | 12.877  | (0.904) | 554497   | 5.00000            | 4.962             |
| 37 2-Chloronaphthalene            | 162       | 13.055 | 13.063  | (0.917) | 452952   | 5.00000            | 5.057             |
| 38 2-Nitroaniline                 | 65        | 13.342 | 13.349  | (0.937) | 258777   | 10.0000            | 11.08             |
| 39 Dimethylphthalate              | 163       | 13.798 | 13.798  | (0.970) | 471450   | 5.00000            | 5.221             |
| 40 Acenaphthylene                 | 152       | 13.915 | 13.922  | (0.978) | 675352   | 5.00000            | 5.138             |
| 41 2,6-Dinitrotoluene             | 165       | 13.922 | 13.930  | (0.978) | 219811   | 10.0000            | 10.39             |
| * 42 Acenaphthene-d10             | 164       | 14.232 | 14.239  | (1.000) | 287099   | 4.00000            |                   |
| 43 3-Nitroaniline                 | 138       | 14.201 | 14.208  | (0.998) | 224379   | 10.0000            | 10.35             |
| 44 Acenaphthene                   | 153       | 14.294 | 14.301  | (1.004) | 418968   | 5.00000            | 4.979             |
| 45 2,4-Dinitrophenol              | 184       | 14.410 | 14.417  | (1.012) | 266329   | 20.0000            | 19.06             |
| 46 Dibenzofuran                   | 168       | 14.626 | 14.634  | (1.028) | 673814   | 5.00000            | 5.032             |
| 47 4-Nitrophenol                  | 109       | 14.556 | 14.587  | (1.023) | 112978   | 10.0000            | 10.23             |
| 48 2,4-Dinitrotoluene             | 165       | 14.719 | 14.726  | (1.034) | 320388   | 10.0000            | 10.52             |
| 50 Diethylphthalate               | 149       | 15.252 | 15.252  | (1.072) | 450273   | 5.00000            | 5.332             |
| 49 Fluorene                       | 166       | 15.330 | 15.337  | (1.077) | 552935   | 5.00000            | 4.901             |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.345 | 15.345  | (1.078) | 290081   | 5.00000            | 4.832             |
| 52 4-Nitroaniline                 | 138       | 15.461 | 15.469  | (1.086) | 237312   | 10.0000            | 11.04             |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.546 | 15.553  | (0.902) | 376899   | 20.0000            | 19.96             |
| 54 N-Nitrosodiphenylamine         | 169       | 15.600 | 15.607  | (0.905) | 356635   | 5.00000            | 5.049             |
| § 55 2,4,6-Tribromophenol         | 330       | 15.862 | 15.870  | (1.115) | 118959   | 7.50000            | 7.470             |
| 56 4-Bromophenyl-phenylether      | 248       | 16.332 | 16.340  | (0.947) | 162112   | 5.00000            | 5.221             |
| 57 Hexachlorobenzene              | 284       | 16.626 | 16.634  | (0.965) | 172613   | 5.00000            | 5.056             |
| 58 Pentachlorophenol              | 266       | 16.990 | 17.005  | (0.986) | 171723   | 10.0000            | 10.20             |
| * 59 Phenanthrene-d10             | 188       | 17.237 | 17.245  | (1.000) | 562063   | 4.00000            |                   |
| 60 Phenanthrene                   | 178       | 17.284 | 17.291  | (1.003) | 742941   | 5.00000            | 4.969             |
| 61 Anthracene                     | 178       | 17.377 | 17.384  | (1.008) | 755170   | 5.00000            | 5.342             |
| 62 Carbazole                      | 167       | 17.717 | 17.732  | (1.028) | 565514   | 5.00000            | 4.565             |
| 63 Di-n-butylphthalate            | 149       | 18.584 | 18.591  | (1.078) | 785758   | 5.00000            | 5.002             |
| 64 Fluoranthene                   | 202       | 19.705 | 19.713  | (0.882) | 885625   | 5.00000            | 5.330             |
| 65 Pyrene                         | 202       | 20.131 | 20.139  | (0.901) | 964292   | 5.00000            | 5.504             |
| § 66 Terphenyl-d14                | 244       | 20.464 | 20.471  | (0.915) | 689618   | 5.00000            | 5.113             |
| 67 Butylbenzylphthalate           | 149       | 21.432 | 21.439  | (0.959) | 309926   | 5.00000            | 5.098             |
| 68 Benzo(a)anthracene             | 228       | 22.330 | 22.337  | (0.999) | 778265   | 5.00000            | 5.305             |
| * 69 Chrysene-d12                 | 240       | 22.353 | 22.368  | (1.000) | 437959   | 4.00000            |                   |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.314 | 22.330  | (0.998) | 506248   | 15.0000            | 12.08             |
| 71 Chrysene                       | 228       | 22.400 | 22.415  | (1.002) | 710681   | 5.00000            | 5.040             |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.485 | 22.492  | (0.958) | 443533   | 5.00000            | 5.196             |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.468 | 23.476  | (1.000) | 562397   | 4.00000            |                   |
| 73 Di-n-octylphthalate            | 149       | 23.476 | 23.483  | (1.000) | 731588   | 5.00000            | 4.941             |
| 74 Benzo(b)fluoranthene           | 252       | 24.087 | 24.103  | (0.975) | 745852   | 5.00000            | 5.467             |
| 75 Benzo(k)fluoranthene           | 252       | 24.126 | 24.141  | (0.977) | 729732   | 5.00000            | 4.958             |
| 76 Benzo(a)pyrene                 | 252       | 24.606 | 24.621  | (0.996) | 632491   | 5.00000            | 5.404             |
| * 77 Perylene-d12                 | 264       | 24.699 | 24.714  | (1.000) | 412943   | 4.00000            |                   |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.769 | 26.784  | (1.084) | 778621   | 5.00000            | 5.284             |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.785 | 26.800  | (1.084) | 650185   | 5.00000            | 5.196             |
| 80 Benzo(g,h,i)perylene           | 276       | 27.367 | 27.383  | (1.108) | 674792   | 5.00000            | 5.251             |
| 90 N-Nitrosodimethylamine         | 74        | 3.973  | 3.988   | (0.485) | 265214   | 10.0000            | 10.80             |
| 91 Aniline                        | 93        | 7.673  | 7.681   | (0.937) | 596618   | 10.0000            | 10.21             |
| 93 Benzidine                      | 184       | 19.984 | 19.992  | (0.894) | 474936   | 10.0000            | 6.839             |
| 103 Pyridine                      | 79        | 3.973  | 3.988   | (0.485) | 411065   | 5.00000            | 5.470             |
| 105 1-methylnaphthalene           | 142       | 12.289 | 12.297  | (1.155) | 438486   | 5.00000            | 5.146             |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.662 | 15.669  | (1.100) | 501049   | 5.00000            | 5.168             |

| Compounds                     | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                               | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| =====                         | =====     |  | =====  | =====  | =====   | =====    | =====              |                   |
| 187 Total Benzofluoranthenes  | 252       |  | 24.126 | 24.141 | (0.977) | 1388768  | 10.0000            | 10.41             |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 14.974 | 14.981 | (1.052) | 151117   | 5.00000            | 4.571             |



ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023  
 Lab File ID: NT1423022813.D Calibration Time: 12:51  
 Lab Smp Id: SLB0374-ICV1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 116519   | 58260      | 233038  | 130493 | 11.99 |
| 27 Naphthalene-d8     | 429090   | 214545     | 858180  | 468517 | 9.19  |
| 42 Acenaphthene-d10   | 250637   | 125319     | 501274  | 287099 | 14.55 |
| 59 Phenanthrene-d10   | 458117   | 229059     | 916234  | 562063 | 22.69 |
| 69 Chrysene-d12       | 393468   | 196734     | 786936  | 437959 | 11.31 |
| 134 Di-n-octylphthala | 572636   | 286318     | 1145272 | 562397 | -1.79 |
| 77 Perylene-d12       | 283320   | 141660     | 566640  | 412943 | 45.75 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.19   | -0.19 |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.64  | -0.22 |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.23  | -0.11 |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.24  | -0.09 |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.35  | -0.10 |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.47  | -0.07 |
| 77 Perylene-d12       | 24.73    | 24.23    | 25.23 | 24.70  | -0.13 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022813.D

Lab ID: SLB0374-ICV1  
nt14.i, ABN.m, 01-MAR-2023 08:50

RT CO-ELUTION COMPOUNDS

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NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Ccal file.

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230228.b

Instrument: nt14.i Date: 01-MAR-2023 Method: ABN.m

INITIAL CAL: 28-FEB-2023

| Compound     | %RSD or R <sup>2</sup> |
|--------------|------------------------|
| Benzoic acid | 53.2                   |

ICV CAL: NT1423022813.D 01-MAR-2023 08:50

| Compound           | %D    |
|--------------------|-------|
| 2,4-Dichlorophenol | -39.3 |
| Benzidine          | -31.6 |



INITIAL CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022821.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-ICV2

Injection Time: 13:39

Sequence Name: ABN 5

| COMPOUND                     | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |         |
|------------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
|                              |      | STD           | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT   |
| Phenol                       | A    | 5.0000        | 5.5  | 1.8373500       | 2.0093350 |     | 9.4          | +/-20   |
| bis(2-chloroethyl) ether     | A    | 5.0000        | 5.1  | 1.5312550       | 1.2708030 |     | 1.7          | +/-20   |
| 2-Chlorophenol               | A    | 5.0000        | 5.0  | 1.3533690       | 1.3549710 |     | 0.1          | +/-20   |
| 1,3-Dichlorobenzene          | A    | 5.0000        | 5.0  | 1.4914740       | 1.4898400 |     | -0.1         | +/-20   |
| 1,4-Dichlorobenzene          | A    | 5.0000        | 4.9  | 1.4740600       | 1.4338890 |     | -2.7         | +/-20   |
| 1,2-Dichlorobenzene          | A    | 5.0000        | 5.0  | 1.4134490       | 1.4044260 |     | -0.6         | +/-20   |
| Benzyl Alcohol               | A    | 5.0000        | 5.6  | 0.6439892       | 0.9179344 |     | 12.7         | +/-20   |
| 2,2'-Oxybis(1-chloropropane) | A    | 5.0000        | 5.0  | 0.3811859       | 0.3832535 |     | 0.5          | +/-20   |
| 2-Methylphenol               | A    | 5.0000        | 5.6  | 1.1607310       | 1.3094830 |     | 12.8         | +/-20   |
| Hexachloroethane             | A    | 5.0000        | 4.7  | 0.5535732       | 0.5192788 |     | -6.2         | +/-20   |
| N-Nitroso-di-n-Propylamine   | A    | 5.0000        | 5.7  | 0.8837751       | 1.0161760 |     | 15.0         | +/-20   |
| 4-Methylphenol               | A    | 5.0000        | 5.1  | 1.1353050       | 1.3503500 |     | 2.0          | +/-20   |
| Nitrobenzene                 | A    | 5.0000        | 5.6  | 0.3760061       | 0.4246694 |     | 12.9         | +/-20   |
| Isophorone                   | A    | 5.0000        | 5.3  | 0.4996273       | 0.6149679 |     | 6.5          | +/-20   |
| 2-Nitrophenol                | A    | 5.0000        | 5.9  | 0.1467597       | 0.2328305 |     | 18.7         | +/-20   |
| 2,4-Dimethylphenol           | A    | 10.000        | 10.7 | 0.3427845       | 0.3654379 |     | 6.6          | +/-20   |
| Bis(2-Chloroethoxy)methane   | A    | 5.0000        | 5.2  | 0.3780235       | 0.3919070 |     | 3.7          | +/-20   |
| 2,4-Dichlorophenol           | A    | 10.000        | 7.7  | 0.2946235       | 0.2561705 |     | -23.5        | +/-20 * |
| 1,2,4-Trichlorobenzene       | A    | 5.0000        | 4.8  | 0.3874001       | 0.3707729 |     | -4.3         | +/-20   |
| Naphthalene                  | A    | 5.0000        | 5.0  | 1.0669580       | 1.0702650 |     | 0.3          | +/-20   |
| Benzoic acid                 | A    | 20.000        | 28.1 | 0.1358415       | 0.1910867 |     | 40.7         | +/-20 * |
| 4-Chloroaniline              | A    | 10.000        | 10.7 | 0.4563565       | 0.4871767 |     | 6.8          | +/-20   |
| Hexachlorobutadiene          | A    | 5.0000        | 5.3  | 0.2363916       | 0.2523293 |     | 6.7          | +/-20   |
| 4-Chloro-3-Methylphenol      | A    | 10.000        | 11.2 | 0.3085482       | 0.3465326 |     | 12.3         | +/-20   |
| 2-Methylnaphthalene          | A    | 5.0000        | 5.1  | 0.7901196       | 0.8132196 |     | 2.9          | +/-20   |
| Hexachlorocyclopentadiene    | A    | 10.000        | 3.3  | 0.3443795       | 0.1406697 |     | -66.6        | +/-20 * |
| 2,4,6-Trichlorophenol        | A    | 10.000        | 11.1 | 0.3907367       | 0.4333057 |     | 10.9         | +/-20   |
| 2,4,5-Trichlorophenol        | A    | 10.000        | 11.3 | 0.4224702       | 0.4777401 |     | 13.1         | +/-20   |
| 2-Chloronaphthalene          | A    | 5.0000        | 5.1  | 1.2480280       | 1.2790200 |     | 2.5          | +/-20   |
| 2-Nitroaniline               | A    | 10.000        | 12.1 | 0.3254949       | 0.3924085 |     | 20.6         | +/-20 * |

\* Values outside of QC limits



INITIAL CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022821.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-ICV2

Injection Time: 13:39

Sequence Name: ABN 5

| COMPOUND                   | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |         |
|----------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
|                            |      | STD           | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT   |
| Acenaphthylene             | A    | 5.0000        | 5.3  | 1.8312950       | 1.9325490 |     | 5.5          | +/-20   |
| Dimethylphthalate          | A    | 5.0000        | 5.4  | 1.2581570       | 1.3498040 |     | 7.3          | +/-20   |
| 2,6-Dinitrotoluene         | A    | 10.000        | 10.6 | 0.2948315       | 0.3137757 |     | 6.4          | +/-20   |
| Acenaphthene               | A    | 5.0000        | 5.0  | 1.1724930       | 1.1723240 |     | -0.02        | +/-20   |
| 3-Nitroaniline             | A    | 10.000        | 11.0 | 0.3021810       | 0.3319714 |     | 9.9          | +/-20   |
| 2,4-Dinitrophenol          | A    | 20.000        | 19.5 | 0.1437811       | 0.1903360 |     | -2.4         | +/-20   |
| Dibenzofuran               | A    | 5.0000        | 5.0  | 1.8656210       | 1.8704340 |     | 0.3          | +/-20   |
| 4-Nitrophenol              | A    | 10.000        | 9.9  | 0.1323756       | 0.1514813 |     | -1.5         | +/-20   |
| 2,4-Dinitrotoluene         | A    | 10.000        | 10.5 | 0.4244424       | 0.4454030 |     | 4.9          | +/-20   |
| Fluorene                   | A    | 5.0000        | 5.0  | 1.5719010       | 1.5694210 |     | -0.2         | +/-20   |
| 4-Chlorophenylphenyl ether | A    | 5.0000        | 4.7  | 0.8363665       | 0.7853517 |     | -6.1         | +/-20   |
| Diethyl phthalate          | A    | 5.0000        | 5.5  | 1.1765440       | 1.2856470 |     | 9.3          | +/-20   |
| 4-Nitroaniline             | A    | 10.000        | 10.6 | 0.2995450       | 0.3167737 |     | 5.8          | +/-20   |
| 4,6-Dinitro-2-methylphenol | A    | 20.000        | 19.6 | 0.0975169       | 0.1319041 |     | -1.9         | +/-20   |
| N-Nitrosodiphenylamine     | A    | 5.0000        | 5.2  | 0.5026629       | 0.5225111 |     | 3.9          | +/-20   |
| 4-Bromophenyl phenyl ether | A    | 5.0000        | 5.2  | 0.2209900       | 0.2278333 |     | 3.1          | +/-20   |
| Hexachlorobenzene          | A    | 5.0000        | 5.0  | 0.2429692       | 0.2451451 |     | 0.9          | +/-20   |
| Pentachlorophenol          | A    | 10.000        | 11.3 | 0.0938263       | 0.1358059 |     | 12.7         | +/-20   |
| Phenanthrene               | A    | 5.0000        | 4.9  | 1.0640870       | 1.0450850 |     | -1.8         | +/-20   |
| Anthracene                 | A    | 5.0000        | 5.4  | 1.0059580       | 1.0781720 |     | 7.2          | +/-20   |
| Carbazole                  | A    | 5.0000        | 5.2  | 0.8816605       | 0.9203634 |     | 4.4          | +/-20   |
| Di-n-Butylphthalate        | A    | 5.0000        | 5.4  | 0.9469101       | 1.2128690 |     | 8.7          | +/-20   |
| Fluoranthene               | A    | 5.0000        | 5.1  | 1.5175930       | 1.5534010 |     | 2.4          | +/-20   |
| Pyrene                     | A    | 5.0000        | 4.9  | 1.6000330       | 1.5709610 |     | -1.8         | +/-20   |
| Butylbenzylphthalate       | A    | 5.0000        | 5.6  | 0.4562763       | 0.6236438 |     | 12.6         | +/-20   |
| Benzo(a)anthracene         | A    | 5.0000        | 5.3  | 1.3399020       | 1.4262830 |     | 6.4          | +/-20   |
| 3,3'-Dichlorobenzidine     | A    | 15.000        | 19.4 | 0.3826468       | 0.4941600 |     | 29.1         | +/-20 * |
| Chrysene                   | A    | 5.0000        | 5.0  | 1.2879040       | 1.2997390 |     | 0.9          | +/-20   |
| bis(2-Ethylhexyl)phthalate | A    | 5.0000        | 4.8  | 0.5161185       | 0.5847030 |     | -3.7         | +/-20   |
| Di-n-Octylphthalate        | A    | 5.0000        | 4.7  | 1.0531830       | 0.9962874 |     | -5.4         | +/-20   |

\* Values outside of QC limits



**INITIAL CALIBRATION CHECK**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022821.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-ICV2

Injection Time: 13:39

Sequence Name: ABN 5

| COMPOUND                  | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |         |
|---------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
|                           |      | STD           | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT   |
| Benzofluoranthenes, Total | A    | 10.000        | 10.1 | 1.2927770       | 1.3088720 |     | 1.2          | +/-20   |
| Benzo(a)pyrene            | A    | 5.0000        | 5.4  | 1.1338150       | 1.2275330 |     | 8.3          | +/-20   |
| Indeno(1,2,3-cd)pyrene    | A    | 5.0000        | 3.4  | 1.4272450       | 0.9715127 |     | -31.9        | +/-20 * |
| Dibenzo(a,h)anthracene    | A    | 5.0000        | 3.7  | 1.2122070       | 0.8854899 |     | -27.0        | +/-20 * |
| Benzo(g,h,i)perylene      | A    | 5.0000        | 2.6  | 1.2448130       | 0.6428289 |     | -48.4        | +/-20 * |
| 1-Methylnaphthalene       | A    | 5.0000        | 5.1  | 0.7274101       | 0.7406894 |     | 1.8          | +/-20   |
| 2-Fluorophenol            | A    | 7.5000        | 8.85 | 1.0846110       | 1.2794060 |     | 18.0         | +/-20   |
| Phenol-d5                 | A    | 7.5000        | 8.60 | 1.5399100       | 1.7653480 |     | 14.6         | +/-20   |
| 2-Chlorophenol-d4         | A    | 7.5000        | 7.74 | 1.3093910       | 1.3508290 |     | 3.2          | +/-20   |
| 1,2-Dichlorobenzene-d4    | A    | 5.0000        | 4.86 | 0.9857584       | 0.9580956 |     | -2.8         | +/-20   |
| Nitrobenzene-d5           | A    | 5.0000        | 5.73 | 0.3912861       | 0.4480648 |     | 14.5         | +/-20   |
| 2-Fluorobiphenyl          | A    | 5.0000        | 5.00 | 1.5568580       | 1.5568730 |     | 0.0          | +/-20   |
| 2,4,6-Tribromophenol      | A    | 7.5000        | 7.96 | 0.1850894       | 0.2360950 |     | 6.2          | +/-20   |
| p-Terphenyl-d14           | A    | 5.0000        | 4.89 | 1.2319340       | 1.2036320 |     | -2.3         | +/-20   |
| 1,4-Dichlorobenzene-d4    | A    | 4.0000        | 4.0  | 28848.5700      | 1.0000    |     | 0.0          |         |
| Naphthalene-d8            | A    | 4.0000        | 4.0  | 103564.8000     | 1.0000    |     | 0.0          |         |
| Acenaphthene-d10          | A    | 4.0000        | 4.0  | 62651.1800      | 1.0000    |     | 0.0          |         |
| Phenanthrene-d10          | A    | 4.0000        | 4.0  | 123124.0000     | 1.0000    |     | 0.0          |         |
| Chrysene-d12              | A    | 4.0000        | 4.0  | 97764.2100      | 1.0000    |     | 0.0          |         |
| Di-n-Octylphthalate-d4    | A    | 4.0000        | 4.0  | 118315.4000     | 1.0000    |     | 0.0          |         |
| Perylene-d12              | A    | 4.0000        | 4.0  | 94293.2500      | 1.0000    |     | 0.0          |         |

\* Values outside of QC limits

\* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022821.D

Date: 01-MAR-2023 13:39

Client ID:

Sample Info: SLB0374-ICV2

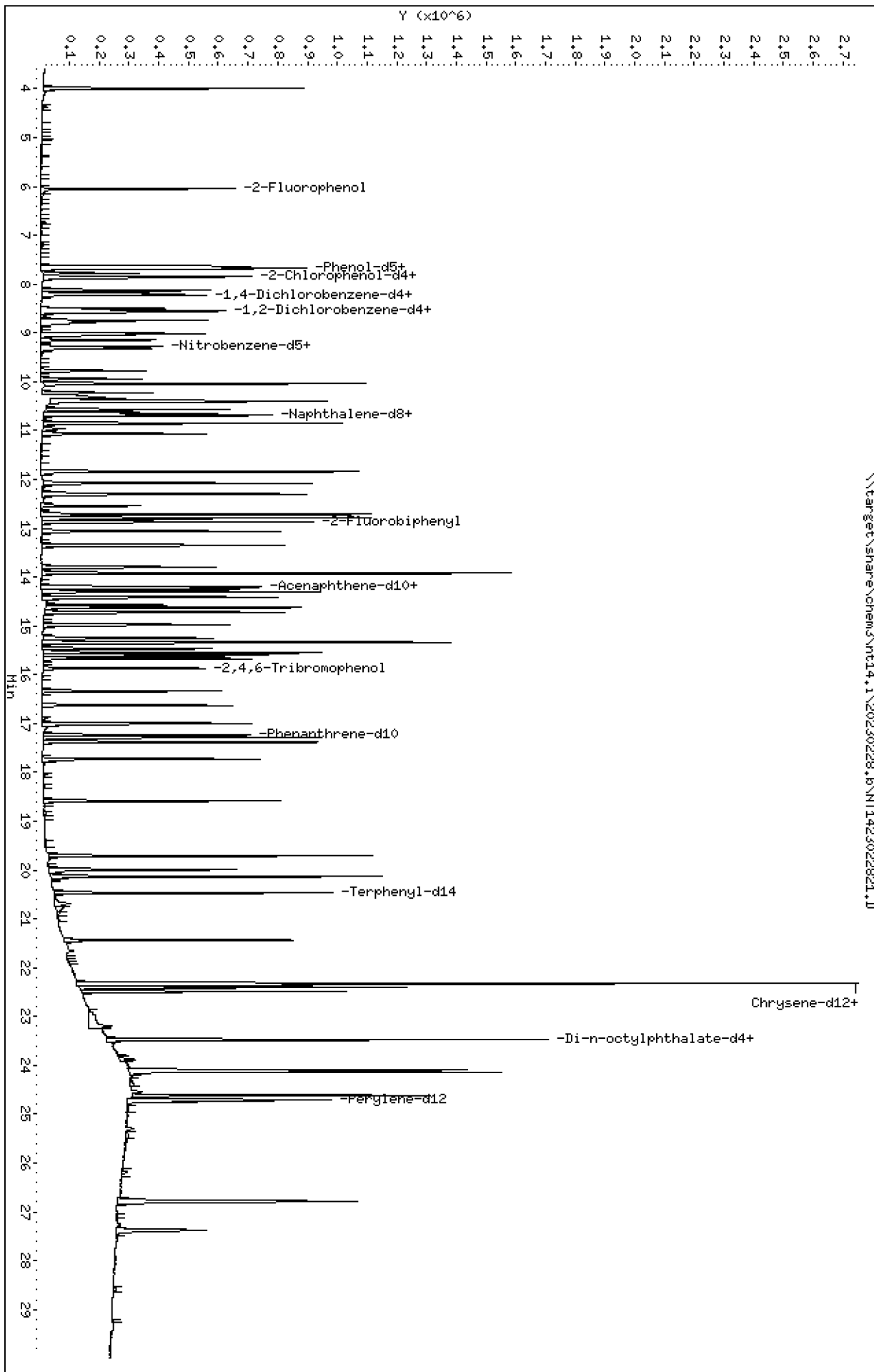
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022821.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022821.D  
 Lab Smp Id: SLB0374-ICV2  
 Inj Date : 01-MAR-2023 13:39 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-ICV2  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 11-Mar-2023 09:11 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 4 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS |           |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
|                                 |       |     |        |        |         |          | CAL-AMT | ON-COL    |
|                                 | MASS  |     |        |        |         |          | (ug/mL) | (ug/mL)   |
| \$ 1 2-Fluorophenol             | 112   |     | 6.050  | 6.050  | (0.739) | 301907   | 7.50000 | 8.847     |
| \$ 2 Phenol-d5                  | 99    |     | 7.634  | 7.634  | (0.932) | 416577   | 7.50000 | 8.598     |
| 3 Phenol                        | 94    |     | 7.657  | 7.657  | (0.935) | 316101   | 5.00000 | 5.468     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.850  | 7.850  | (0.958) | 318761   | 7.50000 | 7.737     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.781  | 7.781  | (0.950) | 199918   | 5.00000 | 5.083     |
| 6 2-Chlorophenol                | 128   |     | 7.874  | 7.874  | (0.961) | 213159   | 5.00000 | 5.006     |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.129  | 8.129  | (0.992) | 234376   | 5.00000 | 4.995     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.191  | 8.191  | (1.000) | 125853   | 4.00000 |           |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.222  | 8.222  | (1.004) | 225574   | 5.00000 | 4.864     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.548  | 8.548  | (1.044) | 150724   | 5.00000 | 4.860     |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.571  | 8.571  | (1.046) | 220939   | 5.00000 | 4.968     |
| 11 Benzyl alcohol               | 108   |     | 8.501  | 8.501  | (1.038) | 144406   | 5.00000 | 5.633     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.789  | 8.789  | (1.073) | 60292    | 5.00000 | 5.027 (M) |
| 13 2-Methylphenol               | 108   |     | 8.742  | 8.742  | (1.067) | 206003   | 5.00000 | 5.641     |
| 17 Hexachloroethane             | 117   |     | 9.146  | 9.146  | (1.117) | 81691    | 5.00000 | 4.690     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.053  | 9.053  | (1.105) | 159861   | 5.00000 | 5.749     |
| 15 4-Methylphenol               | 108   |     | 9.014  | 9.014  | (1.100) | 212432   | 5.00000 | 5.100     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.285  | 9.285  | (0.872) | 254815   | 5.00000 | 5.726     |
| 19 Nitrobenzene                 | 77    |     | 9.316  | 9.316  | (0.875) | 241510   | 5.00000 | 5.647     |
| 20 Isophorone                   | 82    |     | 9.774  | 9.774  | (0.918) | 349733   | 5.00000 | 5.327     |
| 21 2-Nitrophenol                | 139   |     | 9.945  | 9.945  | (0.934) | 132411   | 5.00000 | 5.935     |
| 22 2,4-Dimethylphenol           | 107   |     | 10.038 | 10.038 | (0.943) | 415650   | 10.0000 | 10.66     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.224 | 10.224 | (0.960) | 222878   | 5.00000 | 5.184     |
| 24 Benzoic acid                 | 105   |     | 10.364 | 10.364 | (0.973) | 434685   | 20.0000 | 28.13     |
| 25 2,4-Dichlorophenol           | 162   |     | 10.402 | 10.402 | (0.977) | 291369   | 10.0000 | 7.650     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.572 | 10.572 | (0.993) | 210859   | 5.00000 | 4.785     |
| * 27 Naphthalene-d8             | 136   |     | 10.649 | 10.649 | (1.000) | 454961   | 4.00000 |           |
| 28 Naphthalene                  | 128   |     | 10.688 | 10.688 | (1.004) | 608661   | 5.00000 | 5.015     |
| 29 4-Chloroaniline              | 127   |     | 10.850 | 10.850 | (1.019) | 554116   | 10.0000 | 10.68     |
| 30 Hexachlorobutadiene          | 225   |     | 11.066 | 11.066 | (1.039) | 143500   | 5.00000 | 5.337     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.840 | 11.840 | (1.112) | 394147   | 10.0000 | 11.23     |
| 32 2-Methylnaphthalene          | 142   |     | 12.080 | 12.080 | (1.134) | 462479   | 5.00000 | 5.146     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.545 | 12.545 | (0.881) | 96281    | 10.0000 | 3.343     |



| Compounds                         | QUANT SIG |        |        |         |          | AMOUNTS            |                   |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 12.715 | 12.715 | (0.893) | 296575   | 10.0000            | 11.09             |
| 35 2,4,5-Trichlorophenol          | 196       | 12.792 | 12.792 | (0.899) | 326988   | 10.0000            | 11.31             |
| § 36 2-Fluorobiphenyl             | 172       | 12.877 | 12.877 | (0.905) | 532799   | 5.00000            | 5.000             |
| 37 2-Chloronaphthalene            | 162       | 13.063 | 13.063 | (0.918) | 437711   | 5.00000            | 5.124             |
| 38 2-Nitroaniline                 | 65        | 13.349 | 13.349 | (0.938) | 268583   | 10.0000            | 12.06             |
| 39 Dimethylphthalate              | 163       | 13.798 | 13.798 | (0.970) | 461935   | 5.00000            | 5.364             |
| 40 Acenaphthylene                 | 152       | 13.922 | 13.922 | (0.978) | 661364   | 5.00000            | 5.276             |
| 41 2,6-Dinitrotoluene             | 165       | 13.922 | 13.922 | (0.978) | 214763   | 10.0000            | 10.64             |
| * 42 Acenaphthene-d10             | 164       | 14.232 | 14.232 | (1.000) | 273779   | 4.00000            |                   |
| 43 3-Nitroaniline                 | 138       | 14.201 | 14.201 | (0.998) | 227217   | 10.0000            | 10.99             |
| 44 Acenaphthene                   | 153       | 14.301 | 14.301 | (1.005) | 401197   | 5.00000            | 4.999             |
| 45 2,4-Dinitrophenol              | 184       | 14.417 | 14.417 | (1.013) | 260550   | 20.0000            | 19.53             |
| 46 Dibenzofuran                   | 168       | 14.626 | 14.626 | (1.028) | 640107   | 5.00000            | 5.013             |
| 47 4-Nitrophenol                  | 109       | 14.579 | 14.579 | (1.024) | 103681   | 10.0000            | 9.854             |
| 48 2,4-Dinitrotoluene             | 165       | 14.726 | 14.726 | (1.035) | 304855   | 10.0000            | 10.49             |
| 50 Diethylphthalate               | 149       | 15.252 | 15.252 | (1.072) | 439979   | 5.00000            | 5.464             |
| 49 Fluorene                       | 166       | 15.330 | 15.330 | (1.077) | 537093   | 5.00000            | 4.992             |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.345 | 15.345 | (1.078) | 268766   | 5.00000            | 4.695             |
| 52 4-Nitroaniline                 | 138       | 15.469 | 15.469 | (1.087) | 216815   | 10.0000            | 10.58             |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.553 | 15.553 | (0.902) | 343204   | 20.0000            | 19.63             |
| 54 N-Nitrosodiphenylamine         | 169       | 15.607 | 15.607 | (0.905) | 339883   | 5.00000            | 5.197             |
| § 55 2,4,6-Tribromophenol         | 330       | 15.870 | 15.870 | (1.115) | 121196   | 7.50000            | 7.963             |
| 56 4-Bromophenyl-phenylether      | 248       | 16.340 | 16.340 | (0.948) | 148201   | 5.00000            | 5.155             |
| 57 Hexachlorobenzene              | 284       | 16.626 | 16.626 | (0.965) | 159462   | 5.00000            | 5.045             |
| 58 Pentachlorophenol              | 266       | 17.005 | 17.005 | (0.987) | 176678   | 10.0000            | 11.27             |
| * 59 Phenanthrene-d10             | 188       | 17.237 | 17.237 | (1.000) | 520384   | 4.00000            |                   |
| 60 Phenanthrene                   | 178       | 17.291 | 17.291 | (1.003) | 679807   | 5.00000            | 4.911             |
| 61 Anthracene                     | 178       | 17.384 | 17.384 | (1.009) | 701329   | 5.00000            | 5.359             |
| 62 Carbazole                      | 167       | 17.732 | 17.732 | (1.029) | 598678   | 5.00000            | 5.219             |
| 63 Di-n-butylphthalate            | 149       | 18.583 | 18.583 | (1.078) | 788947   | 5.00000            | 5.433             |
| 64 Fluoranthene                   | 202       | 19.705 | 19.705 | (0.881) | 775114   | 5.00000            | 5.118             |
| 65 Pyrene                         | 202       | 20.139 | 20.139 | (0.901) | 783876   | 5.00000            | 4.909             |
| § 66 Terphenyl-d14                | 244       | 20.471 | 20.471 | (0.916) | 600587   | 5.00000            | 4.885             |
| 67 Butylbenzylphthalate           | 149       | 21.439 | 21.439 | (0.959) | 311185   | 5.00000            | 5.628             |
| 68 Benzo(a)anthracene             | 228       | 22.330 | 22.330 | (0.999) | 711685   | 5.00000            | 5.322             |
| * 69 Chrysene-d12                 | 240       | 22.361 | 22.361 | (1.000) | 399183   | 4.00000            |                   |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.322 | 22.322 | (0.998) | 739726   | 15.0000            | 19.37             |
| 71 Chrysene                       | 228       | 22.407 | 22.407 | (1.002) | 648542   | 5.00000            | 5.046             |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.492 | 22.492 | (0.958) | 440581   | 5.00000            | 4.813             |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.468 | 23.468 | (1.000) | 602810   | 4.00000            |                   |
| 73 Di-n-octylphthalate            | 149       | 23.483 | 23.483 | (1.001) | 750715   | 5.00000            | 4.730             |
| 74 Benzo(b)fluoranthene           | 252       | 24.103 | 24.103 | (0.976) | 828412   | 5.00000            | 5.236             |
| 75 Benzo(k)fluoranthene           | 252       | 24.134 | 24.134 | (0.977) | 835045   | 5.00000            | 4.892             |
| 76 Benzo(a)pyrene                 | 252       | 24.621 | 24.621 | (0.997) | 734812   | 5.00000            | 5.413             |
| * 77 Perylene-d12                 | 264       | 24.707 | 24.707 | (1.000) | 478887   | 4.00000            |                   |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.784 | 26.784 | (1.084) | 581556   | 5.00000            | 3.403             |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.792 | 26.792 | (1.084) | 530062   | 5.00000            | 3.652             |
| 80 Benzo(g,h,i)perylene           | 276       | 27.375 | 27.375 | (1.108) | 384803   | 5.00000            | 2.582             |
| 90 N-Nitrosodimethylamine         | 74        | 3.988  | 3.988  | (0.487) | 246464   | 10.0000            | 10.37             |
| 91 Aniline                        | 93        | 7.681  | 7.681  | (0.938) | 598886   | 10.0000            | 10.66             |
| 93 Benzidine                      | 184       | 19.992 | 19.992 | (0.894) | 461282   | 10.0000            | 7.299             |
| 103 Pyridine                      | 79        | 3.996  | 3.996  | (0.488) | 389427   | 5.00000            | 5.368             |
| 105 1-methylnaphthalene           | 142       | 12.297 | 12.297 | (1.155) | 421231   | 5.00000            | 5.091             |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.669 | 15.669 | (1.101) | 502180   | 5.00000            | 5.432             |

| Compounds                     | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                               | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       |  | 24.134 | 24.134 | (0.977) | 1567005  | 10.0000            | 10.12             |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 14.981 | 14.981 | (1.053) | 165046   | 5.00000            | 5.217             |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023  
 Lab File ID: NT1423022821.D Calibration Time: 08:50  
 Lab Smp Id: SLB0374-ICV2  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 125853   | 62927      | 251706  | 125853 | 0.00  |
| 27 Naphthalene-d8     | 454961   | 227481     | 909922  | 454961 | 0.00  |
| 42 Acenaphthene-d10   | 273779   | 136890     | 547558  | 273779 | 0.00  |
| 59 Phenanthrene-d10   | 520384   | 260192     | 1040768 | 520384 | 0.00  |
| 69 Chrysene-d12       | 399183   | 199592     | 798366  | 399183 | 0.00  |
| 134 Di-n-octylphthala | 602810   | 301405     | 1205620 | 602810 | 0.00  |
| 77 Perylene-d12       | 478887   | 239444     | 957774  | 478887 | 0.00  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.19     | 7.69     | 8.69  | 8.19   | 0.00  |
| 27 Naphthalene-d8     | 10.65    | 10.15    | 11.15 | 10.65  | 0.00  |
| 42 Acenaphthene-d10   | 14.23    | 13.73    | 14.73 | 14.23  | 0.00  |
| 59 Phenanthrene-d10   | 17.24    | 16.74    | 17.74 | 17.24  | 0.00  |
| 69 Chrysene-d12       | 22.36    | 21.86    | 22.86 | 22.36  | 0.00  |
| 134 Di-n-octylphthala | 23.47    | 22.97    | 23.97 | 23.47  | 0.00  |
| 77 Perylene-d12       | 24.71    | 24.21    | 25.21 | 24.71  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022821.D

Lab ID: SLB0374-ICV2

nt14.i, ABN.m, 01-MAR-2023 13:39

RT CO-ELUTION COMPOUNDS

---

13.923 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

No RRT check. Ccal file.

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

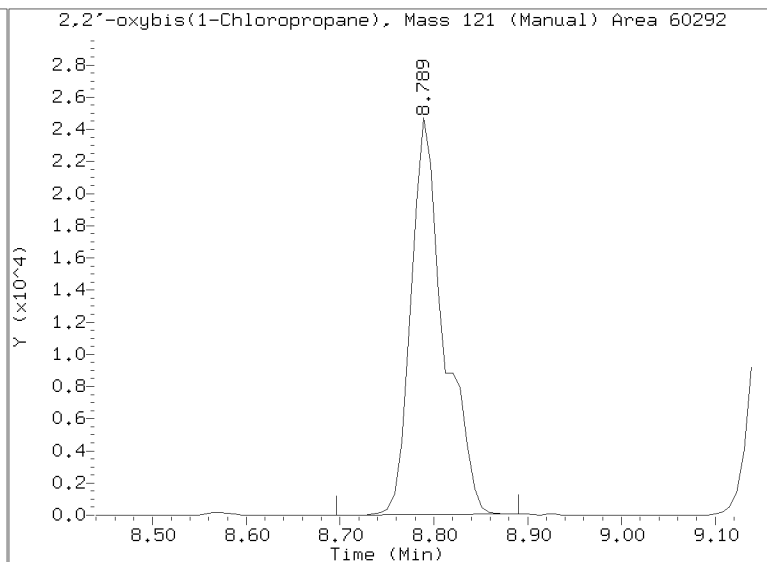
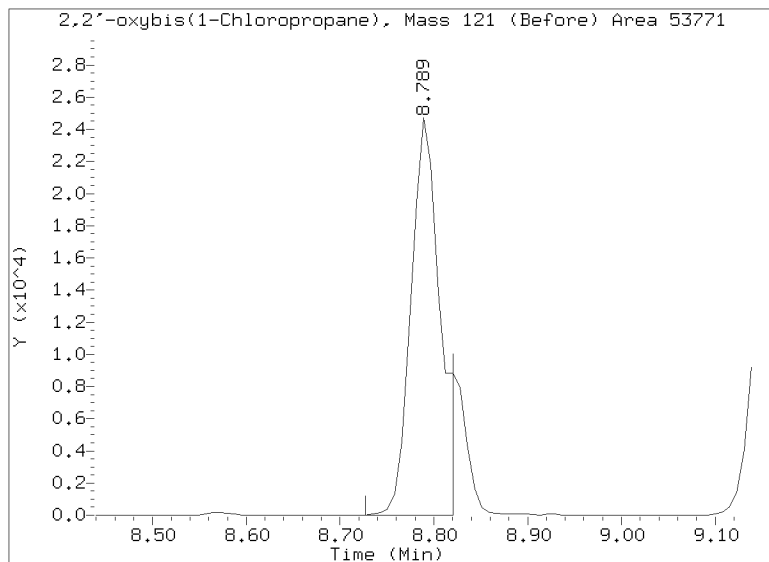
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022821.D

Injection Date: 01-MAR-2023 13:39

Lab ID:SLB0374-ICV2 Client ID:

Report Date: 03/11/2023 09:11



Instrument: nt14.i Date: 01-MAR-2023 Method: ABN.m

INITIAL CAL: 28-FEB-2023

| Compound     | %RSD or R <sup>2</sup> |
|--------------|------------------------|
| Benzoic acid | 53.2                   |

ICV CAL: NT1423022821.D 01-MAR-2023 13:39

| Compound                  | %D     |
|---------------------------|--------|
| 2,4-Dichlorophenol        | -23.5  |
| Benzoic acid              | 40.67  |
| Hexachlorocyclopentadiene | -66.6  |
| 2-Nitroaniline            | 20.56  |
| 3,3'-Dichlorobenzidine    | 29.14  |
| Indeno(1,2,3-cd)pyrene    | -31.93 |
| Dibenzo(a,h)anthracene    | -26.95 |
| Benzo(g,h,i)perylene      | -48.36 |
| Benzidine                 | -27.0  |



INITIAL CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022836.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-ICV3

Injection Time: 22:40

Sequence Name: ABN 5

| COMPOUND                     | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |         |
|------------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
|                              |      | STD           | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT   |
| Phenol                       | A    | 5.0000        | 5.6  | 1.8373500       | 2.0453990 |     | 11.3         | +/-20   |
| bis(2-chloroethyl) ether     | A    | 5.0000        | 5.1  | 1.5312550       | 1.2830170 |     | 2.7          | +/-20   |
| 2-Chlorophenol               | A    | 5.0000        | 5.5  | 1.3533690       | 1.4871400 |     | 9.9          | +/-20   |
| 1,3-Dichlorobenzene          | A    | 5.0000        | 4.9  | 1.4914740       | 1.4708900 |     | -1.4         | +/-20   |
| 1,4-Dichlorobenzene          | A    | 5.0000        | 4.8  | 1.4740600       | 1.4080550 |     | -4.5         | +/-20   |
| 1,2-Dichlorobenzene          | A    | 5.0000        | 4.9  | 1.4134490       | 1.3965360 |     | -1.2         | +/-20   |
| Benzyl Alcohol               | A    | 5.0000        | 5.6  | 0.6439892       | 0.9065280 |     | 11.3         | +/-20   |
| 2,2'-Oxybis(1-chloropropane) | A    | 5.0000        | 5.1  | 0.3811859       | 0.3883208 |     | 1.9          | +/-20   |
| 2-Methylphenol               | A    | 5.0000        | 5.6  | 1.1607310       | 1.2996830 |     | 12.0         | +/-20   |
| Hexachloroethane             | A    | 5.0000        | 4.6  | 0.5535732       | 0.5051617 |     | -8.7         | +/-20   |
| N-Nitroso-di-n-Propylamine   | A    | 5.0000        | 5.9  | 0.8837751       | 1.0424830 |     | 18.0         | +/-20   |
| 4-Methylphenol               | A    | 5.0000        | 5.2  | 1.1353050       | 1.3677540 |     | 3.3          | +/-20   |
| Nitrobenzene                 | A    | 5.0000        | 5.7  | 0.3760061       | 0.4323360 |     | 15.0         | +/-20   |
| Isophorone                   | A    | 5.0000        | 5.4  | 0.4996273       | 0.6238805 |     | 8.1          | +/-20   |
| 2-Nitrophenol                | A    | 5.0000        | 5.9  | 0.1467597       | 0.2330781 |     | 18.8         | +/-20   |
| 2,4-Dimethylphenol           | A    | 10.000        | 10.7 | 0.3427845       | 0.3658279 |     | 6.7          | +/-20   |
| Bis(2-Chloroethoxy)methane   | A    | 5.0000        | 5.2  | 0.3780235       | 0.3961923 |     | 4.8          | +/-20   |
| 2,4-Dichlorophenol           | A    | 10.000        | 8.7  | 0.2946235       | 0.2912235 |     | -12.6        | +/-20   |
| 1,2,4-Trichlorobenzene       | A    | 5.0000        | 4.7  | 0.3874001       | 0.3636745 |     | -6.1         | +/-20   |
| Naphthalene                  | A    | 5.0000        | 5.0  | 1.0669580       | 1.0681350 |     | 0.1          | +/-20   |
| Benzoic acid                 | A    | 20.000        | 32.1 | 0.1358415       | 0.2181378 |     | 60.6         | +/-20 * |
| 4-Chloroaniline              | A    | 10.000        | 10.6 | 0.4563565       | 0.4827016 |     | 5.8          | +/-20   |
| Hexachlorobutadiene          | A    | 5.0000        | 5.1  | 0.2363916       | 0.2411686 |     | 2.0          | +/-20   |
| 4-Chloro-3-Methylphenol      | A    | 10.000        | 11.0 | 0.3085482       | 0.3394116 |     | 10.0         | +/-20   |
| 2-Methylnaphthalene          | A    | 5.0000        | 5.1  | 0.7901196       | 0.7994268 |     | 1.2          | +/-20   |
| Hexachlorocyclopentadiene    | A    | 10.000        | 2.3  | 0.3443795       | 0.0962930 |     | -77.1        | +/-20 * |
| 2,4,6-Trichlorophenol        | A    | 10.000        | 10.9 | 0.3907367       | 0.4273571 |     | 9.4          | +/-20   |
| 2,4,5-Trichlorophenol        | A    | 10.000        | 11.0 | 0.4224702       | 0.4634826 |     | 9.7          | +/-20   |
| 2-Chloronaphthalene          | A    | 5.0000        | 5.1  | 1.2480280       | 1.2706380 |     | 1.8          | +/-20   |
| 2-Nitroaniline               | A    | 10.000        | 12.4 | 0.3254949       | 0.4022714 |     | 23.6         | +/-20 * |

\* Values outside of QC limits



INITIAL CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022836.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-ICV3

Injection Time: 22:40

Sequence Name: ABN 5

| COMPOUND                   | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |         |
|----------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
|                            |      | STD           | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT   |
| Acenaphthylene             | A    | 5.0000        | 5.3  | 1.8312950       | 1.9384670 |     | 5.9          | +/-20   |
| Dimethylphthalate          | A    | 5.0000        | 5.3  | 1.2581570       | 1.3404150 |     | 6.5          | +/-20   |
| 2,6-Dinitrotoluene         | A    | 10.000        | 10.7 | 0.2948315       | 0.3148102 |     | 6.8          | +/-20   |
| Acenaphthene               | A    | 5.0000        | 5.0  | 1.1724930       | 1.1620680 |     | -0.9         | +/-20   |
| 3-Nitroaniline             | A    | 10.000        | 10.9 | 0.3021810       | 0.3287651 |     | 8.8          | +/-20   |
| 2,4-Dinitrophenol          | A    | 20.000        | 17.9 | 0.1437811       | 0.1732835 |     | -10.8        | +/-20   |
| Dibenzofuran               | A    | 5.0000        | 5.0  | 1.8656210       | 1.8473590 |     | -1.0         | +/-20   |
| 4-Nitrophenol              | A    | 10.000        | 9.3  | 0.1323756       | 0.1434420 |     | -6.5         | +/-20   |
| 2,4-Dinitrotoluene         | A    | 10.000        | 10.3 | 0.4244424       | 0.4356182 |     | 2.6          | +/-20   |
| Fluorene                   | A    | 5.0000        | 4.9  | 1.5719010       | 1.5505630 |     | -1.4         | +/-20   |
| 4-Chlorophenylphenyl ether | A    | 5.0000        | 4.6  | 0.8363665       | 0.7712414 |     | -7.8         | +/-20   |
| Diethyl phthalate          | A    | 5.0000        | 5.5  | 1.1765440       | 1.2853260 |     | 9.2          | +/-20   |
| 4-Nitroaniline             | A    | 10.000        | 9.8  | 0.2995450       | 0.2920884 |     | -2.5         | +/-20   |
| 4,6-Dinitro-2-methylphenol | A    | 20.000        | 18.9 | 0.0975169       | 0.1268325 |     | -5.6         | +/-20   |
| N-Nitrosodiphenylamine     | A    | 5.0000        | 5.3  | 0.5026629       | 0.5309894 |     | 5.6          | +/-20   |
| 4-Bromophenyl phenyl ether | A    | 5.0000        | 5.2  | 0.2209900       | 0.2320082 |     | 5.0          | +/-20   |
| Hexachlorobenzene          | A    | 5.0000        | 5.1  | 0.2429692       | 0.2458611 |     | 1.2          | +/-20   |
| Pentachlorophenol          | A    | 10.000        | 11.0 | 0.0938263       | 0.1318820 |     | 9.6          | +/-20   |
| Phenanthrene               | A    | 5.0000        | 5.0  | 1.0640870       | 1.0692410 |     | 0.5          | +/-20   |
| Anthracene                 | A    | 5.0000        | 5.4  | 1.0059580       | 1.0904850 |     | 8.4          | +/-20   |
| Carbazole                  | A    | 5.0000        | 5.0  | 0.8816605       | 0.8890222 |     | 0.8          | +/-20   |
| Di-n-Butylphthalate        | A    | 5.0000        | 5.6  | 0.9469101       | 1.2457840 |     | 11.7         | +/-20   |
| Fluoranthene               | A    | 5.0000        | 4.7  | 1.5175930       | 1.4227    |     | -6.3         | +/-20   |
| Pyrene                     | A    | 5.0000        | 4.6  | 1.6000330       | 1.4570910 |     | -8.9         | +/-20   |
| Butylbenzylphthalate       | A    | 5.0000        | 5.3  | 0.4562763       | 0.5926017 |     | 6.8          | +/-20   |
| Benzo(a)anthracene         | A    | 5.0000        | 5.3  | 1.3399020       | 1.4265670 |     | 6.5          | +/-20   |
| 3,3'-Dichlorobenzidine     | A    | 15.000        | 19.4 | 0.3826468       | 0.4935171 |     | 29.0         | +/-20 * |
| Chrysene                   | A    | 5.0000        | 5.0  | 1.2879040       | 1.2829050 |     | -0.4         | +/-20   |
| bis(2-Ethylhexyl)phthalate | A    | 5.0000        | 4.8  | 0.5161185       | 0.5828706 |     | -4.0         | +/-20   |
| Di-n-Octylphthalate        | A    | 5.0000        | 4.7  | 1.0531830       | 0.9949746 |     | -5.5         | +/-20   |

\* Values outside of QC limits





INITIAL CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022836.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-ICV3

Injection Time: 22:40

Sequence Name: ABN 5

| COMPOUND                  | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |         |
|---------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
|                           |      | STD           | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT   |
| Benzofluoranthenes, Total | A    | 10.000        | 11.5 | 1.2927770       | 1.4843120 |     | 14.8         | +/-20   |
| Benzo(a)pyrene            | A    | 5.0000        | 5.5  | 1.1338150       | 1.2446920 |     | 9.8          | +/-20   |
| Indeno(1,2,3-cd)pyrene    | A    | 5.0000        | 2.4  | 1.4272450       | 0.6921868 |     | -51.5        | +/-20 * |
| Dibenzo(a,h)anthracene    | A    | 5.0000        | 2.7  | 1.2122070       | 0.6448422 |     | -46.8        | +/-20 * |
| Benzo(g,h,i)perylene      | A    | 5.0000        | 1.8  | 1.2448130       | 0.4422862 |     | -64.5        | +/-20 * |
| 1-Methylnaphthalene       | A    | 5.0000        | 5.0  | 0.7274101       | 0.7345758 |     | 1.0          | +/-20   |
| 2-Fluorophenol            | A    | 7.5000        | 9.11 | 1.0846110       | 1.3168920 |     | 21.4         | +/-20 * |
| Phenol-d5                 | A    | 7.5000        | 8.72 | 1.5399100       | 1.7897210 |     | 16.2         | +/-20   |
| 2-Chlorophenol-d4         | A    | 7.5000        | 7.74 | 1.3093910       | 1.3519900 |     | 3.3          | +/-20   |
| 1,2-Dichlorobenzene-d4    | A    | 5.0000        | 4.84 | 0.9857584       | 0.9543060 |     | -3.2         | +/-20   |
| Nitrobenzene-d5           | A    | 5.0000        | 5.85 | 0.3912861       | 0.4577578 |     | 17.0         | +/-20   |
| 2-Fluorobiphenyl          | A    | 5.0000        | 4.98 | 1.5568580       | 1.5513240 |     | -0.4         | +/-20   |
| 2,4,6-Tribromophenol      | A    | 7.5000        | 7.56 | 0.1850894       | 0.2237195 |     | 0.8          | +/-20   |
| p-Terphenyl-d14           | A    | 5.0000        | 4.36 | 1.2319340       | 1.0740590 |     | -12.8        | +/-20   |
| 1,4-Dichlorobenzene-d4    | A    | 4.0000        | 4.0  | 28848.5700      | 1.0000    |     | 0.0          |         |
| Naphthalene-d8            | A    | 4.0000        | 4.0  | 103564.8000     | 1.0000    |     | 0.0          |         |
| Acenaphthene-d10          | A    | 4.0000        | 4.0  | 62651.1800      | 1.0000    |     | 0.0          |         |
| Phenanthrene-d10          | A    | 4.0000        | 4.0  | 123124.0000     | 1.0000    |     | 0.0          |         |
| Chrysene-d12              | A    | 4.0000        | 4.0  | 97764.2100      | 1.0000    |     | 0.0          |         |
| Di-n-Octylphthalate-d4    | A    | 4.0000        | 4.0  | 118315.4000     | 1.0000    |     | 0.0          |         |
| Perylene-d12              | A    | 4.0000        | 4.0  | 94293.2500      | 1.0000    |     | 0.0          |         |

\* Values outside of QC limits

\* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022836.D

Date: 01-MAR-2023 22:40

Client ID:

Sample Info: SLB0374-ICV3

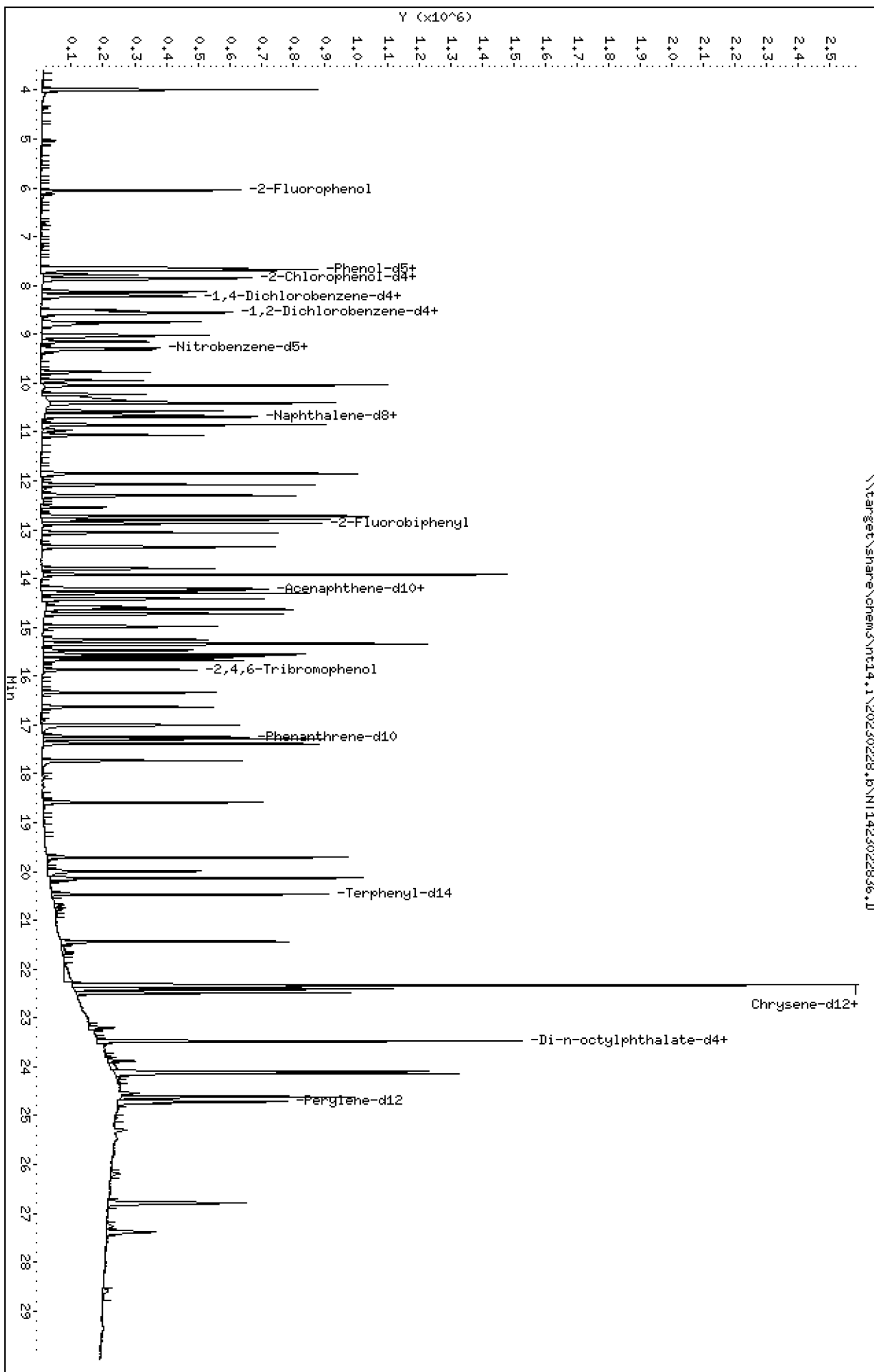
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022836.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022836.D  
 Lab Smp Id: SLB0374-ICV3  
 Inj Date : 01-MAR-2023 22:40 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-ICV3  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 14-Mar-2023 08:52 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 4 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS |         |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|---------|
|                                 |       |     |        |        |         |          | CAL-AMT | ON-COL  |
|                                 | MASS  |     |        |        |         |          | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol             | 112   |     | 6.050  | 6.050  | (0.738) | 284819   | 7.50000 | 9.106   |
| \$ 2 Phenol-d5                  | 99    |     | 7.642  | 7.642  | (0.932) | 387083   | 7.50000 | 8.717   |
| 3 Phenol                        | 94    |     | 7.665  | 7.665  | (0.935) | 294921   | 5.00000 | 5.566   |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.850  | 7.850  | (0.958) | 292410   | 7.50000 | 7.744   |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.781  | 7.781  | (0.949) | 184995   | 5.00000 | 5.134   |
| 6 2-Chlorophenol                | 128   |     | 7.881  | 7.881  | (0.961) | 214427   | 5.00000 | 5.494   |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.129  | 8.129  | (0.991) | 212084   | 5.00000 | 4.931   |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.199  | 8.199  | (1.000) | 115350   | 4.00000 |         |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.230  | 8.230  | (1.004) | 203024   | 5.00000 | 4.776   |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.548  | 8.548  | (1.043) | 137599   | 5.00000 | 4.840   |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.571  | 8.571  | (1.045) | 201363   | 5.00000 | 4.940   |
| 11 Benzyl alcohol               | 108   |     | 8.509  | 8.509  | (1.038) | 130710   | 5.00000 | 5.564   |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.789  | 8.789  | (1.072) | 55991    | 5.00000 | 5.094   |
| 13 2-Methylphenol               | 108   |     | 8.750  | 8.750  | (1.067) | 187398   | 5.00000 | 5.599   |
| 17 Hexachloroethane             | 117   |     | 9.154  | 9.154  | (1.116) | 72838    | 5.00000 | 4.563   |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.053  | 9.053  | (1.104) | 150313   | 5.00000 | 5.898   |
| 15 4-Methylphenol               | 108   |     | 9.022  | 9.022  | (1.100) | 197213   | 5.00000 | 5.167   |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.285  | 9.285  | (0.872) | 237974   | 5.00000 | 5.849   |
| 19 Nitrobenzene                 | 77    |     | 9.324  | 9.324  | (0.876) | 224758   | 5.00000 | 5.749   |
| 20 Isophorone                   | 82    |     | 9.774  | 9.774  | (0.918) | 324336   | 5.00000 | 5.405   |
| 21 2-Nitrophenol                | 139   |     | 9.945  | 9.945  | (0.934) | 121170   | 5.00000 | 5.941   |
| 22 2,4-Dimethylphenol           | 107   |     | 10.046 | 10.046 | (0.943) | 380365   | 10.0000 | 10.67   |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.224 | 10.224 | (0.960) | 205968   | 5.00000 | 5.240   |
| 24 Benzoic acid                 | 105   |     | 10.364 | 10.364 | (0.973) | 453612   | 20.0000 | 32.12   |
| 25 2,4-Dichlorophenol           | 162   |     | 10.410 | 10.410 | (0.978) | 302796   | 10.0000 | 8.742   |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.572 | 10.572 | (0.993) | 189063   | 5.00000 | 4.694   |
| * 27 Naphthalene-d8             | 136   |     | 10.649 | 10.649 | (1.000) | 415895   | 4.00000 |         |
| 28 Naphthalene                  | 128   |     | 10.688 | 10.688 | (1.004) | 555290   | 5.00000 | 5.006   |
| 29 4-Chloroaniline              | 127   |     | 10.850 | 10.850 | (1.019) | 501883   | 10.0000 | 10.58   |
| 30 Hexachlorobutadiene          | 225   |     | 11.066 | 11.066 | (1.039) | 125376   | 5.00000 | 5.101   |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.848 | 11.848 | (1.113) | 352899   | 10.0000 | 11.00   |
| 32 2-Methylnaphthalene          | 142   |     | 12.080 | 12.080 | (1.134) | 415597   | 5.00000 | 5.059   |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.545 | 12.545 | (0.881) | 59225    | 10.0000 | 2.291   |

| Compounds                         | QUANT SIG |        |        |         |          | AMOUNTS            |                   |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 12.723 | 12.723 | (0.893) | 262846   | 10.0000            | 10.94             |
| 35 2,4,5-Trichlorophenol          | 196       | 12.800 | 12.800 | (0.899) | 285065   | 10.0000            | 10.97             |
| § 36 2-Fluorobiphenyl             | 172       | 12.877 | 12.877 | (0.904) | 477071   | 5.00000            | 4.982             |
| 37 2-Chloronaphthalene            | 162       | 13.063 | 13.063 | (0.917) | 390753   | 5.00000            | 5.091             |
| 38 2-Nitroaniline                 | 65        | 13.349 | 13.349 | (0.938) | 247417   | 10.0000            | 12.36             |
| 39 Dimethylphthalate              | 163       | 13.798 | 13.798 | (0.969) | 412211   | 5.00000            | 5.327             |
| 40 Acenaphthylene                 | 152       | 13.922 | 13.922 | (0.978) | 596127   | 5.00000            | 5.293             |
| 41 2,6-Dinitrotoluene             | 165       | 13.930 | 13.930 | (0.978) | 193624   | 10.0000            | 10.68             |
| * 42 Acenaphthene-d10             | 164       | 14.239 | 14.239 | (1.000) | 246020   | 4.00000            |                   |
| 43 3-Nitroaniline                 | 138       | 14.208 | 14.208 | (0.998) | 202207   | 10.0000            | 10.88             |
| 44 Acenaphthene                   | 153       | 14.301 | 14.301 | (1.004) | 357365   | 5.00000            | 4.956             |
| 45 2,4-Dinitrophenol              | 184       | 14.417 | 14.417 | (1.012) | 213156   | 20.0000            | 17.85             |
| 46 Dibenzofuran                   | 168       | 14.634 | 14.634 | (1.028) | 568109   | 5.00000            | 4.951             |
| 47 4-Nitrophenol                  | 109       | 14.587 | 14.587 | (1.024) | 88224    | 10.0000            | 9.346             |
| 48 2,4-Dinitrotoluene             | 165       | 14.726 | 14.726 | (1.034) | 267927   | 10.0000            | 10.26             |
| 50 Diethylphthalate               | 149       | 15.252 | 15.252 | (1.071) | 395270   | 5.00000            | 5.462             |
| 49 Fluorene                       | 166       | 15.337 | 15.337 | (1.077) | 476837   | 5.00000            | 4.932             |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.345 | 15.345 | (1.078) | 237176   | 5.00000            | 4.611             |
| 52 4-Nitroaniline                 | 138       | 15.469 | 15.469 | (1.086) | 179649   | 10.0000            | 9.751             |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.553 | 15.553 | (0.902) | 284484   | 20.0000            | 18.88             |
| 54 N-Nitrosodiphenylamine         | 169       | 15.607 | 15.607 | (0.905) | 297751   | 5.00000            | 5.282             |
| § 55 2,4,6-Tribromophenol         | 330       | 15.870 | 15.870 | (1.114) | 103199   | 7.50000            | 7.560             |
| 56 4-Bromophenyl-phenylether      | 248       | 16.340 | 16.340 | (0.948) | 130098   | 5.00000            | 5.249             |
| 57 Hexachlorobenzene              | 284       | 16.634 | 16.634 | (0.965) | 137866   | 5.00000            | 5.060             |
| 58 Pentachlorophenol              | 266       | 17.005 | 17.005 | (0.986) | 147905   | 10.0000            | 10.96             |
| * 59 Phenanthrene-d10             | 188       | 17.245 | 17.245 | (1.000) | 448598   | 4.00000            |                   |
| 60 Phenanthrene                   | 178       | 17.291 | 17.291 | (1.003) | 599574   | 5.00000            | 5.024             |
| 61 Anthracene                     | 178       | 17.384 | 17.384 | (1.008) | 611487   | 5.00000            | 5.420             |
| 62 Carbazole                      | 167       | 17.732 | 17.732 | (1.028) | 498517   | 5.00000            | 5.042             |
| 63 Di-n-butylphthalate            | 149       | 18.591 | 18.591 | (1.078) | 698570   | 5.00000            | 5.584             |
| 64 Fluoranthene                   | 202       | 19.713 | 19.713 | (0.881) | 665073   | 5.00000            | 4.687             |
| 65 Pyrene                         | 202       | 20.139 | 20.139 | (0.900) | 681150   | 5.00000            | 4.553             |
| § 66 Terphenyl-d14                | 244       | 20.471 | 20.471 | (0.915) | 502093   | 5.00000            | 4.359             |
| 67 Butylbenzylphthalate           | 149       | 21.439 | 21.439 | (0.958) | 277025   | 5.00000            | 5.342             |
| 68 Benzo(a)anthracene             | 228       | 22.337 | 22.337 | (0.999) | 666881   | 5.00000            | 5.323             |
| * 69 Chrysene-d12                 | 240       | 22.368 | 22.368 | (1.000) | 373978   | 4.00000            |                   |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.330 | 22.330 | (0.998) | 692117   | 15.0000            | 19.35             |
| 71 Chrysene                       | 228       | 22.415 | 22.415 | (1.002) | 599723   | 5.00000            | 4.981             |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.492 | 22.492 | (0.958) | 394583   | 5.00000            | 4.798             |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.476 | 23.476 | (1.000) | 541572   | 4.00000            |                   |
| 73 Di-n-octylphthalate            | 149       | 23.483 | 23.483 | (1.000) | 673563   | 5.00000            | 4.724             |
| 74 Benzo(b)fluoranthene           | 252       | 24.103 | 24.103 | (0.975) | 658970   | 5.00000            | 5.574             |
| 75 Benzo(k)fluoranthene           | 252       | 24.141 | 24.141 | (0.977) | 760715   | 5.00000            | 5.965             |
| 76 Benzo(a)pyrene                 | 252       | 24.621 | 24.621 | (0.996) | 556718   | 5.00000            | 5.489             |
| * 77 Perylene-d12                 | 264       | 24.714 | 24.714 | (1.000) | 357819   | 4.00000            |                   |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.784 | 26.784 | (1.084) | 309597   | 5.00000            | 2.425             |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.800 | 26.800 | (1.084) | 288421   | 5.00000            | 2.660             |
| 80 Benzo(g,h,i)perylene           | 276       | 27.383 | 27.383 | (1.108) | 197823   | 5.00000            | 1.777             |
| 90 N-Nitrosodimethylamine         | 74        | 3.988  | 3.988  | (0.486) | 236687   | 10.0000            | 10.91             |
| 91 Aniline                        | 93        | 7.681  | 7.681  | (0.937) | 557519   | 10.0000            | 10.84             |
| 93 Benzidine                      | 184       | 19.992 | 19.992 | (0.894) | 369945   | 10.0000            | 6.225             |
| 103 Pyridine                      | 79        | 3.988  | 3.988  | (0.486) | 377966   | 5.00000            | 5.702             |
| 105 1-methylnaphthalene           | 142       | 12.297 | 12.297 | (1.155) | 381883   | 5.00000            | 5.049             |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.669 | 15.669 | (1.100) | 462216   | 5.00000            | 5.564             |

| Compounds                     | QUANT SIG |  | AMOUNTS |        |         |          |                    |                   |
|-------------------------------|-----------|--|---------|--------|---------|----------|--------------------|-------------------|
|                               | MASS      |  | RT      | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| =====                         | =====     |  | =====   | =====  | =====   | =====    | =====              | =====             |
| 187 Total Benzofluoranthenes  | 252       |  | 24.141  | 24.141 | (0.977) | 1327788  | 10.0000            | 11.48             |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 14.981  | 14.981 | (1.052) | 145547   | 5.00000            | 5.123             |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 02-MAR-2023  
 Lab File ID: NT1423022836.D Calibration Time: 05:52  
 Lab Smp Id: SLB0374-ICV3  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 116519   | 58260      | 233038  | 115350 | -1.00 |
| 27 Naphthalene-d8     | 429090   | 214545     | 858180  | 415895 | -3.08 |
| 42 Acenaphthene-d10   | 250637   | 125319     | 501274  | 246020 | -1.84 |
| 59 Phenanthrene-d10   | 458117   | 229059     | 916234  | 448598 | -2.08 |
| 69 Chrysene-d12       | 393468   | 196734     | 786936  | 373978 | -4.95 |
| 134 Di-n-octylphthala | 572636   | 286318     | 1145272 | 541572 | -5.42 |
| 77 Perylene-d12       | 283320   | 141660     | 566640  | 357819 | 26.30 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.20   | -0.10 |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.65  | -0.15 |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.24  | -0.06 |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.25  | -0.05 |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.37  | -0.04 |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.48  | -0.03 |
| 77 Perylene-d12       | 24.73    | 24.23    | 25.23 | 24.71  | -0.06 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022836.D

Lab ID: SLB0374-ICV3  
nt14.i, ABN.m, 01-MAR-2023 22:40

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Ccal file.

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

Instrument: nt14.i Date: 01-MAR-2023 Method: ABN.m

INITIAL CAL: 28-FEB-2023

| Compound     | %RSD or R <sup>2</sup> |
|--------------|------------------------|
| Benzoic acid | 53.2                   |

ICV CAL: NT1423022836.D 01-MAR-2023 22:40

| Compound                  | %D     |
|---------------------------|--------|
| Benzoic acid              | 60.58  |
| Hexachlorocyclopentadiene | -77.1  |
| 2-Nitroaniline            | 23.59  |
| 3,3'-Dichlorobenzidine    | 28.97  |
| Indeno(1,2,3-cd)pyrene    | -51.50 |
| Dibenzo(a,h)anthracene    | -46.80 |
| Benzo(g,h,i)perylene      | -64.47 |
| Benzidine                 | -37.7  |
| 2-Fluorophenol            | 21.42  |





INITIAL CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022848.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/02/23

Lab Sample ID: SLB0374-ICV4

Injection Time: 05:52

Sequence Name: ABN 5

| COMPOUND                     | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |         |
|------------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
|                              |      | STD           | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT   |
| Phenol                       | A    | 5.0000        | 5.7  | 1.8373500       | 2.0819610 |     | 13.3         | +/-20   |
| bis(2-chloroethyl) ether     | A    | 5.0000        | 5.3  | 1.5312550       | 1.3312510 |     | 6.7          | +/-20   |
| 2-Chlorophenol               | A    | 5.0000        | 5.6  | 1.3533690       | 1.5237140 |     | 12.6         | +/-20   |
| 1,3-Dichlorobenzene          | A    | 5.0000        | 5.1  | 1.4914740       | 1.5063710 |     | 1.0          | +/-20   |
| 1,4-Dichlorobenzene          | A    | 5.0000        | 4.9  | 1.4740600       | 1.4424500 |     | -2.1         | +/-20   |
| 1,2-Dichlorobenzene          | A    | 5.0000        | 5.0  | 1.4134490       | 1.4186120 |     | 0.4          | +/-20   |
| Benzyl Alcohol               | A    | 5.0000        | 5.7  | 0.6439892       | 0.9322153 |     | 14.4         | +/-20   |
| 2,2'-Oxybis(1-chloropropane) | A    | 5.0000        | 5.2  | 0.3811859       | 0.3949845 |     | 3.6          | +/-20   |
| 2-Methylphenol               | A    | 5.0000        | 6.2  | 1.1607310       | 1.4335930 |     | 23.5         | +/-20 * |
| Hexachloroethane             | A    | 5.0000        | 4.6  | 0.5535732       | 0.5109072 |     | -7.7         | +/-20   |
| N-Nitroso-di-n-Propylamine   | A    | 5.0000        | 6.1  | 0.8837751       | 1.0796930 |     | 22.2         | +/-20 * |
| 4-Methylphenol               | A    | 5.0000        | 5.3  | 1.1353050       | 1.3971700 |     | 5.6          | +/-20   |
| Nitrobenzene                 | A    | 5.0000        | 5.9  | 0.3760061       | 0.4402135 |     | 17.1         | +/-20   |
| Isophorone                   | A    | 5.0000        | 5.5  | 0.4996273       | 0.6342334 |     | 9.9          | +/-20   |
| 2-Nitrophenol                | A    | 5.0000        | 5.9  | 0.1467597       | 0.2332061 |     | 18.9         | +/-20   |
| 2,4-Dimethylphenol           | A    | 10.000        | 10.7 | 0.3427845       | 0.3653770 |     | 6.6          | +/-20   |
| Bis(2-Chloroethoxy)methane   | A    | 5.0000        | 5.3  | 0.3780235       | 0.4016575 |     | 6.3          | +/-20   |
| 2,4-Dichlorophenol           | A    | 10.000        | 9.8  | 0.2946235       | 0.3234548 |     | -2.4         | +/-20   |
| 1,2,4-Trichlorobenzene       | A    | 5.0000        | 4.7  | 0.3874001       | 0.3606703 |     | -6.9         | +/-20   |
| Naphthalene                  | A    | 5.0000        | 5.0  | 1.0669580       | 1.0679640 |     | 0.1          | +/-20   |
| Benzoic acid                 | A    | 20.000        | 29.4 | 0.1358415       | 0.1998858 |     | 47.2         | +/-20 * |
| 4-Chloroaniline              | A    | 10.000        | 10.6 | 0.4563565       | 0.4844047 |     | 6.1          | +/-20   |
| Hexachlorobutadiene          | A    | 5.0000        | 5.0  | 0.2363916       | 0.2360046 |     | -0.2         | +/-20   |
| 4-Chloro-3-Methylphenol      | A    | 10.000        | 11.3 | 0.3085482       | 0.3475112 |     | 12.6         | +/-20   |
| 2-Methylnaphthalene          | A    | 5.0000        | 5.1  | 0.7901196       | 0.8027370 |     | 1.6          | +/-20   |
| Hexachlorocyclopentadiene    | A    | 10.000        | 2.3  | 0.3443795       | 0.0973535 |     | -76.8        | +/-20 * |
| 2,4,6-Trichlorophenol        | A    | 10.000        | 11.0 | 0.3907367       | 0.4294561 |     | 9.9          | +/-20   |
| 2,4,5-Trichlorophenol        | A    | 10.000        | 11.2 | 0.4224702       | 0.4744359 |     | 12.3         | +/-20   |
| 2-Chloronaphthalene          | A    | 5.0000        | 5.1  | 1.2480280       | 1.2815470 |     | 2.7          | +/-20   |
| 2-Nitroaniline               | A    | 10.000        | 12.9 | 0.3254949       | 0.4202492 |     | 29.1         | +/-20 * |

\* Values outside of QC limits



**INITIAL CALIBRATION CHECK**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022848.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/02/23

Lab Sample ID: SLB0374-ICV4

Injection Time: 05:52

Sequence Name: ABN 5

| COMPOUND                   | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |         |
|----------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
|                            |      | STD           | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT   |
| Acenaphthylene             | A    | 5.0000        | 5.3  | 1.8312950       | 1.9592480 |     | 7.0          | +/-20   |
| Dimethylphthalate          | A    | 5.0000        | 5.4  | 1.2581570       | 1.3623210 |     | 8.3          | +/-20   |
| 2,6-Dinitrotoluene         | A    | 10.000        | 10.8 | 0.2948315       | 0.3174823 |     | 7.7          | +/-20   |
| Acenaphthene               | A    | 5.0000        | 5.0  | 1.1724930       | 1.1755810 |     | 0.3          | +/-20   |
| 3-Nitroaniline             | A    | 10.000        | 11.0 | 0.3021810       | 0.3315424 |     | 9.7          | +/-20   |
| 2,4-Dinitrophenol          | A    | 20.000        | 18.0 | 0.1437811       | 0.1750165 |     | -9.9         | +/-20   |
| Dibenzofuran               | A    | 5.0000        | 5.0  | 1.8656210       | 1.8545480 |     | -0.6         | +/-20   |
| 4-Nitrophenol              | A    | 10.000        | 9.6  | 0.1323756       | 0.1477914 |     | -3.8         | +/-20   |
| 2,4-Dinitrotoluene         | A    | 10.000        | 10.4 | 0.4244424       | 0.4394642 |     | 3.5          | +/-20   |
| Fluorene                   | A    | 5.0000        | 5.1  | 1.5719010       | 1.5894510 |     | 1.1          | +/-20   |
| 4-Chlorophenylphenyl ether | A    | 5.0000        | 4.7  | 0.8363665       | 0.7857228 |     | -6.1         | +/-20   |
| Diethyl phthalate          | A    | 5.0000        | 5.5  | 1.1765440       | 1.2980110 |     | 10.3         | +/-20   |
| 4-Nitroaniline             | A    | 10.000        | 10.1 | 0.2995450       | 0.3037828 |     | 1.4          | +/-20   |
| 4,6-Dinitro-2-methylphenol | A    | 20.000        | 18.7 | 0.0975169       | 0.1255426 |     | -6.6         | +/-20   |
| N-Nitrosodiphenylamine     | A    | 5.0000        | 5.4  | 0.5026629       | 0.5389820 |     | 7.2          | +/-20   |
| 4-Bromophenyl phenyl ether | A    | 5.0000        | 5.2  | 0.2209900       | 0.2300775 |     | 4.1          | +/-20   |
| Hexachlorobenzene          | A    | 5.0000        | 5.0  | 0.2429692       | 0.2443254 |     | 0.6          | +/-20   |
| Pentachlorophenol          | A    | 10.000        | 11.3 | 0.0938263       | 0.1356125 |     | 12.5         | +/-20   |
| Phenanthrene               | A    | 5.0000        | 5.0  | 1.0640870       | 1.0642820 |     | 0.02         | +/-20   |
| Anthracene                 | A    | 5.0000        | 5.4  | 1.0059580       | 1.0952120 |     | 8.9          | +/-20   |
| Carbazole                  | A    | 5.0000        | 5.2  | 0.8816605       | 0.9114161 |     | 3.4          | +/-20   |
| Di-n-Butylphthalate        | A    | 5.0000        | 5.7  | 0.9469101       | 1.2606580 |     | 13.0         | +/-20   |
| Fluoranthene               | A    | 5.0000        | 4.6  | 1.5175930       | 1.4014580 |     | -7.7         | +/-20   |
| Pyrene                     | A    | 5.0000        | 4.9  | 1.6000330       | 1.5572440 |     | -2.7         | +/-20   |
| Butylbenzylphthalate       | A    | 5.0000        | 5.3  | 0.4562763       | 0.5898381 |     | 6.3          | +/-20   |
| Benzo(a)anthracene         | A    | 5.0000        | 5.4  | 1.3399020       | 1.4347660 |     | 7.1          | +/-20   |
| 3,3'-Dichlorobenzidine     | A    | 15.000        | 19.2 | 0.3826468       | 0.4908211 |     | 28.3         | +/-20 * |
| Chrysene                   | A    | 5.0000        | 5.0  | 1.2879040       | 1.2948750 |     | 0.5          | +/-20   |
| bis(2-Ethylhexyl)phthalate | A    | 5.0000        | 4.7  | 0.5161185       | 0.5680411 |     | -6.5         | +/-20   |
| Di-n-Octylphthalate        | A    | 5.0000        | 4.7  | 1.0531830       | 0.9962699 |     | -5.4         | +/-20   |

\* Values outside of QC limits



INITIAL CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022848.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/02/23

Lab Sample ID: SLB0374-ICV4

Injection Time: 05:52

Sequence Name: ABN 5

| COMPOUND                  | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |         |
|---------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
|                           |      | STD           | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT   |
| Benzofluoranthenes, Total | A    | 10.000        | 12.7 | 1.2927770       | 1.6357480 |     | 26.5         | +/-20 * |
| Benzo(a)pyrene            | A    | 5.0000        | 5.5  | 1.1338150       | 1.2413020 |     | 9.5          | +/-20   |
| Indeno(1,2,3-cd)pyrene    | A    | 5.0000        | 2.2  | 1.4272450       | 0.6246675 |     | -56.2        | +/-20 * |
| Dibenzo(a,h)anthracene    | A    | 5.0000        | 2.4  | 1.2122070       | 0.5843428 |     | -51.8        | +/-20 * |
| Benzo(g,h,i)perylene      | A    | 5.0000        | 1.6  | 1.2448130       | 0.4079034 |     | -67.2        | +/-20 * |
| 1-Methylnaphthalene       | A    | 5.0000        | 5.0  | 0.7274101       | 0.7308956 |     | 0.5          | +/-20   |
| 2-Fluorophenol            | A    | 7.5000        | 9.31 | 1.0846110       | 1.3457580 |     | 24.1         | +/-20 * |
| Phenol-d5                 | A    | 7.5000        | 8.91 | 1.5399100       | 1.8291630 |     | 18.8         | +/-20   |
| 2-Chlorophenol-d4         | A    | 7.5000        | 8.68 | 1.3093910       | 1.5155180 |     | 15.7         | +/-20   |
| 1,2-Dichlorobenzene-d4    | A    | 5.0000        | 4.88 | 0.9857584       | 0.9627683 |     | -2.3         | +/-20   |
| Nitrobenzene-d5           | A    | 5.0000        | 5.93 | 0.3912861       | 0.4644135 |     | 18.7         | +/-20   |
| 2-Fluorobiphenyl          | A    | 5.0000        | 5.06 | 1.5568580       | 1.5744780 |     | 1.1          | +/-20   |
| 2,4,6-Tribromophenol      | A    | 7.5000        | 7.49 | 0.1850894       | 0.2214475 |     | -0.2         | +/-20   |
| p-Terphenyl-d14           | A    | 5.0000        | 4.35 | 1.2319340       | 1.0707390 |     | -13.1        | +/-20   |
| 1,4-Dichlorobenzene-d4    | A    | 4.0000        | 4.0  | 28848.5700      | 1.0000    |     | 0.0          |         |
| Naphthalene-d8            | A    | 4.0000        | 4.0  | 103564.8000     | 1.0000    |     | 0.0          |         |
| Acenaphthene-d10          | A    | 4.0000        | 4.0  | 62651.1800      | 1.0000    |     | 0.0          |         |
| Phenanthrene-d10          | A    | 4.0000        | 4.0  | 123124.0000     | 1.0000    |     | 0.0          |         |
| Chrysene-d12              | A    | 4.0000        | 4.0  | 97764.2100      | 1.0000    |     | 0.0          |         |
| Di-n-Octylphthalate-d4    | A    | 4.0000        | 4.0  | 118315.4000     | 1.0000    |     | 0.0          |         |
| Perylene-d12              | A    | 4.0000        | 4.0  | 94293.2500      | 1.0000    |     | 0.0          |         |

\* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228 JB\NT1423022848.D

Date: 02-MAR-2023 05:52

Client ID:

Sample Info: SLB0374-ICV4

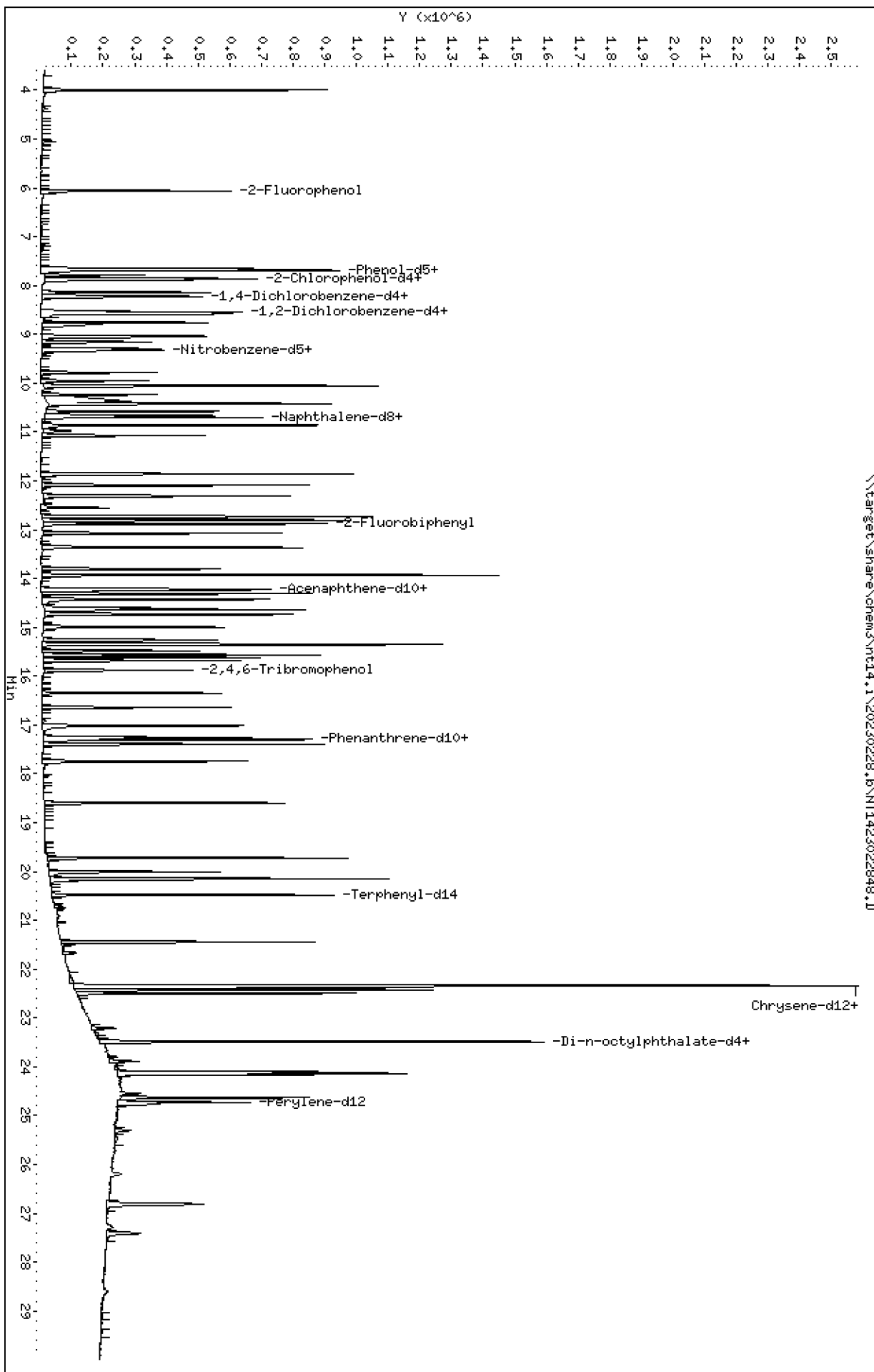
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228 JB\NT1423022848.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022848.D  
 Lab Smp Id: SLB0374-ICV4  
 Inj Date : 02-MAR-2023 05:52 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-ICV4  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 11-Mar-2023 13:20 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 4 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS |           |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
|                                 |       |     |        |        |         |          | CAL-AMT | ON-COL    |
|                                 | MASS  |     |        |        |         |          | (ug/mL) | (ug/mL)   |
| \$ 1 2-Fluorophenol             | 112   |     | 6.066  | 6.066  | (0.739) | 294012   | 7.50000 | 9.306     |
| \$ 2 Phenol-d5                  | 99    |     | 7.650  | 7.650  | (0.932) | 399623   | 7.50000 | 8.909     |
| 3 Phenol                        | 94    |     | 7.673  | 7.673  | (0.935) | 303235   | 5.00000 | 5.666     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.858  | 7.858  | (0.958) | 331100   | 7.50000 | 8.681     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.789  | 7.789  | (0.949) | 193895   | 5.00000 | 5.335     |
| 6 2-Chlorophenol                | 128   |     | 7.889  | 7.889  | (0.961) | 221927   | 5.00000 | 5.629     |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.137  | 8.137  | (0.991) | 219401   | 5.00000 | 5.050     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.207  | 8.207  | (1.000) | 116519   | 4.00000 |           |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.238  | 8.238  | (1.004) | 210091   | 5.00000 | 4.893     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.556  | 8.556  | (1.043) | 140226   | 5.00000 | 4.883     |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.579  | 8.579  | (1.045) | 206619   | 5.00000 | 5.018     |
| 11 Benzyl alcohol               | 108   |     | 8.517  | 8.517  | (1.038) | 135776   | 5.00000 | 5.719     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.797  | 8.797  | (1.072) | 57529    | 5.00000 | 5.181 (M) |
| 13 2-Methylphenol               | 108   |     | 8.758  | 8.758  | (1.067) | 208801   | 5.00000 | 6.175     |
| 17 Hexachloroethane             | 117   |     | 9.162  | 9.162  | (1.116) | 74413    | 5.00000 | 4.615     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.061  | 9.061  | (1.104) | 157256   | 5.00000 | 6.108     |
| 15 4-Methylphenol               | 108   |     | 9.037  | 9.037  | (1.101) | 203496   | 5.00000 | 5.281     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.293  | 9.293  | (0.871) | 249094   | 5.00000 | 5.934     |
| 19 Nitrobenzene                 | 77    |     | 9.332  | 9.332  | (0.875) | 236114   | 5.00000 | 5.854     |
| 20 Isophorone                   | 82    |     | 9.782  | 9.782  | (0.917) | 340179   | 5.00000 | 5.497     |
| 21 2-Nitrophenol                | 139   |     | 9.953  | 9.953  | (0.933) | 125083   | 5.00000 | 5.945     |
| 22 2,4-Dimethylphenol           | 107   |     | 10.054 | 10.054 | (0.943) | 391949   | 10.0000 | 10.66     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.232 | 10.232 | (0.959) | 215434   | 5.00000 | 5.313     |
| 24 Benzoic acid                 | 105   |     | 10.372 | 10.372 | (0.972) | 428845   | 20.0000 | 29.43     |
| 25 2,4-Dichlorophenol           | 162   |     | 10.418 | 10.418 | (0.977) | 346978   | 10.0000 | 9.757     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.580 | 10.580 | (0.992) | 193450   | 5.00000 | 4.655     |
| * 27 Naphthalene-d8             | 136   |     | 10.665 | 10.665 | (1.000) | 429090   | 4.00000 |           |
| 28 Naphthalene                  | 128   |     | 10.704 | 10.704 | (1.004) | 572816   | 5.00000 | 5.005     |
| 29 4-Chloroaniline              | 127   |     | 10.866 | 10.866 | (1.019) | 519633   | 10.0000 | 10.61     |
| 30 Hexachlorobutadiene          | 225   |     | 11.074 | 11.074 | (1.038) | 126584   | 5.00000 | 4.992     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.856 | 11.856 | (1.112) | 372784   | 10.0000 | 11.26     |
| 32 2-Methylnaphthalene          | 142   |     | 12.088 | 12.088 | (1.133) | 430558   | 5.00000 | 5.080     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.553 | 12.553 | (0.881) | 61001    | 10.0000 | 2.316     |

| Compounds                         | QUANT SIG |        |        |         | AMOUNTS  |                    |                   |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 12.731 | 12.731 | (0.894) | 269094   | 10.0000            | 10.99             |
| 35 2,4,5-Trichlorophenol          | 196       | 12.808 | 12.808 | (0.899) | 297278   | 10.0000            | 11.23             |
| § 36 2-Fluorobiphenyl             | 172       | 12.885 | 12.885 | (0.904) | 493278   | 5.00000            | 5.057             |
| 37 2-Chloronaphthalene            | 162       | 13.071 | 13.071 | (0.917) | 401504   | 5.00000            | 5.134             |
| 38 2-Nitroaniline                 | 65        | 13.365 | 13.365 | (0.938) | 263325   | 10.0000            | 12.91             |
| 39 Dimethylphthalate              | 163       | 13.806 | 13.806 | (0.969) | 426810   | 5.00000            | 5.414             |
| 40 Acenaphthylene                 | 152       | 13.930 | 13.930 | (0.978) | 613825   | 5.00000            | 5.349             |
| 41 2,6-Dinitrotoluene             | 165       | 13.938 | 13.938 | (0.978) | 198932   | 10.0000            | 10.77             |
| * 42 Acenaphthene-d10             | 164       | 14.247 | 14.247 | (1.000) | 250637   | 4.00000            |                   |
| 43 3-Nitroaniline                 | 138       | 14.216 | 14.216 | (0.998) | 207742   | 10.0000            | 10.97             |
| 44 Acenaphthene                   | 153       | 14.309 | 14.309 | (1.004) | 368305   | 5.00000            | 5.013             |
| 45 2,4-Dinitrophenol              | 184       | 14.425 | 14.425 | (1.012) | 219328   | 20.0000            | 18.02             |
| 46 Dibenzofuran                   | 168       | 14.642 | 14.642 | (1.028) | 581023   | 5.00000            | 4.970             |
| 47 4-Nitrophenol                  | 109       | 14.595 | 14.595 | (1.024) | 92605    | 10.0000            | 9.621             |
| 48 2,4-Dinitrotoluene             | 165       | 14.734 | 14.734 | (1.034) | 275365   | 10.0000            | 10.35             |
| 50 Diethylphthalate               | 149       | 15.260 | 15.260 | (1.071) | 406662   | 5.00000            | 5.516             |
| 49 Fluorene                       | 166       | 15.345 | 15.345 | (1.077) | 497969   | 5.00000            | 5.056             |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.361 | 15.361 | (1.078) | 246164   | 5.00000            | 4.697             |
| 52 4-Nitroaniline                 | 138       | 15.484 | 15.484 | (1.087) | 190348   | 10.0000            | 10.14             |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.569 | 15.569 | (0.902) | 287566   | 20.0000            | 18.69             |
| 54 N-Nitrosodiphenylamine         | 169       | 15.615 | 15.615 | (0.905) | 308646   | 5.00000            | 5.361             |
| § 55 2,4,6-Tribromophenol         | 330       | 15.885 | 15.885 | (1.115) | 104068   | 7.50000            | 7.486             |
| 56 4-Bromophenyl-phenylether      | 248       | 16.348 | 16.348 | (0.948) | 131753   | 5.00000            | 5.206             |
| 57 Hexachlorobenzene              | 284       | 16.642 | 16.642 | (0.965) | 139912   | 5.00000            | 5.028             |
| 58 Pentachlorophenol              | 266       | 17.013 | 17.013 | (0.986) | 155316   | 10.0000            | 11.25             |
| * 59 Phenanthrene-d10             | 188       | 17.253 | 17.253 | (1.000) | 458117   | 4.00000            |                   |
| 60 Phenanthrene                   | 178       | 17.299 | 17.299 | (1.003) | 609457   | 5.00000            | 5.001             |
| 61 Anthracene                     | 178       | 17.392 | 17.392 | (1.008) | 627169   | 5.00000            | 5.444             |
| 62 Carbazole                      | 167       | 17.748 | 17.748 | (1.029) | 521919   | 5.00000            | 5.169             |
| 63 Di-n-butylphthalate            | 149       | 18.599 | 18.599 | (1.078) | 721911   | 5.00000            | 5.652             |
| 64 Fluoranthene                   | 202       | 19.729 | 19.729 | (0.882) | 689286   | 5.00000            | 4.617             |
| 65 Pyrene                         | 202       | 20.154 | 20.154 | (0.901) | 765907   | 5.00000            | 4.866             |
| § 66 Terphenyl-d14                | 244       | 20.479 | 20.479 | (0.915) | 526627   | 5.00000            | 4.346             |
| 67 Butylbenzylphthalate           | 149       | 21.447 | 21.447 | (0.958) | 290103   | 5.00000            | 5.317             |
| 68 Benzo(a)anthracene             | 228       | 22.353 | 22.353 | (0.999) | 705668   | 5.00000            | 5.354             |
| * 69 Chrysene-d12                 | 240       | 22.376 | 22.376 | (1.000) | 393468   | 4.00000            |                   |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.338 | 22.338 | (0.998) | 724209   | 15.0000            | 19.24             |
| 71 Chrysene                       | 228       | 22.423 | 22.423 | (1.002) | 636865   | 5.00000            | 5.027             |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.500 | 22.500 | (0.958) | 406601   | 5.00000            | 4.675             |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.483 | 23.483 | (1.000) | 572636   | 4.00000            |                   |
| 73 Di-n-octylphthalate            | 149       | 23.491 | 23.491 | (1.000) | 713125   | 5.00000            | 4.730             |
| 74 Benzo(b)fluoranthene           | 252       | 24.118 | 24.118 | (0.975) | 597901   | 5.00000            | 6.387             |
| 75 Benzo(k)fluoranthene           | 252       | 24.149 | 24.149 | (0.977) | 632550   | 5.00000            | 6.264             |
| 76 Benzo(a)pyrene                 | 252       | 24.637 | 24.637 | (0.996) | 439607   | 5.00000            | 5.474             |
| * 77 Perylene-d12                 | 264       | 24.730 | 24.730 | (1.000) | 283320   | 4.00000            |                   |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.808 | 26.808 | (1.084) | 221226   | 5.00000            | 2.188             |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.824 | 26.824 | (1.085) | 206945   | 5.00000            | 2.410             |
| 80 Benzo(g,h,i)perylene           | 276       | 27.414 | 27.414 | (1.109) | 144459   | 5.00000            | 1.638             |
| 90 N-Nitrosodimethylamine         | 74        | 3.996  | 3.996  | (0.487) | 246117   | 10.0000            | 11.26             |
| 91 Aniline                        | 93        | 7.689  | 7.689  | (0.937) | 578168   | 10.0000            | 11.14             |
| 93 Benzidine                      | 184       | 20.007 | 20.007 | (0.894) | 407864   | 10.0000            | 6.530             |
| 103 Pyridine                      | 79        | 3.996  | 3.996  | (0.487) | 394056   | 5.00000            | 5.896             |
| 105 1-methylnaphthalene           | 142       | 12.305 | 12.305 | (1.154) | 392025   | 5.00000            | 5.024             |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.685 | 15.685 | (1.101) | 474086   | 5.00000            | 5.602             |

| Compounds                     | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                               | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       |  | 24.149 | 24.149 | (0.977) | 1158600  | 10.0000            | 12.65             |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 14.997 | 14.997 | (1.053) | 147371   | 5.00000            | 5.092             |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023  
 Lab File ID: NT1423022848.D Calibration Time: 22:40  
 Lab Smp Id: SLB0374-ICV4  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 116519   | 58260      | 233038  | 116519 | 0.00  |
| 27 Naphthalene-d8     | 429090   | 214545     | 858180  | 429090 | 0.00  |
| 42 Acenaphthene-d10   | 250637   | 125319     | 501274  | 250637 | 0.00  |
| 59 Phenanthrene-d10   | 458117   | 229059     | 916234  | 458117 | 0.00  |
| 69 Chrysene-d12       | 393468   | 196734     | 786936  | 393468 | 0.00  |
| 134 Di-n-octylphthala | 572636   | 286318     | 1145272 | 572636 | 0.00  |
| 77 Perylene-d12       | 283320   | 141660     | 566640  | 283320 | 0.00  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.21   | 0.00  |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.67  | 0.00  |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.25  | 0.00  |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.25  | 0.00  |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.38  | 0.00  |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.48  | 0.00  |
| 77 Perylene-d12       | 24.73    | 24.23    | 25.23 | 24.73  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



REVIEW SUMMARY FOR FILE - NT1423022848.D

Lab ID: SLB0374-ICV4  
nt14.i, ABN.m, 02-MAR-2023 05:52

RT CO-ELUTION COMPOUNDS

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NO CO-ELUTIONS

Quant Method: ICAL

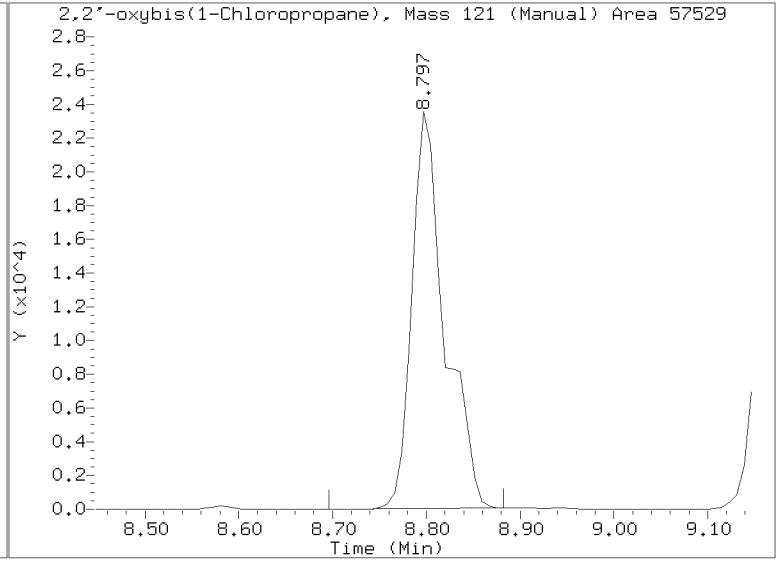
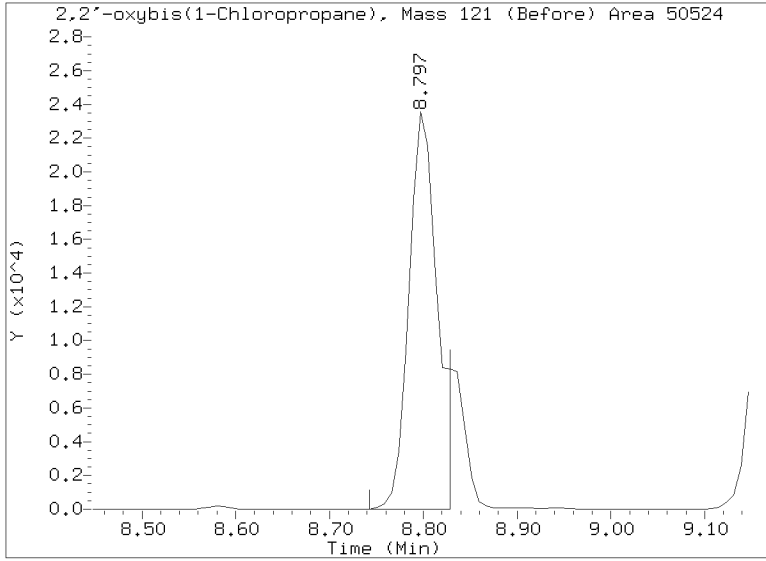
No RRT check. Ccal file.

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022848.D  
Injection Date: 02-MAR-2023 05:52  
Lab ID:SLB0374-ICV4 Client ID:  
Report Date: 03/14/2023 08:43



Instrument: nt14.i Date: 02-MAR-2023 Method: ABN.m

INITIAL CAL: 28-FEB-2023

| Compound     | %RSD or R <sup>2</sup> |
|--------------|------------------------|
| Benzoic acid | 53.2                   |

ICV CAL: NT1423022848.D 02-MAR-2023 05:52

| Compound                   | %D     |
|----------------------------|--------|
| 2-Methylphenol             | 23.51  |
| N-Nitroso-di-n-propylamine | 22.17  |
| Benzoic acid               | 47.15  |
| Hexachlorocyclopentadiene  | -76.8  |
| 2-Nitroaniline             | 29.11  |
| 3,3'-Dichlorobenzidine     | 28.27  |
| Benzo(b)fluoranthene       | 27.75  |
| Benzo(k)fluoranthene       | 25.28  |
| Indeno(1,2,3-cd)pyrene     | -56.23 |
| Dibenzo(a,h)anthracene     | -51.80 |
| Benzo(g,h,i)perylene       | -67.23 |
| Benzidine                  | -34.7  |
| Total Benzofluoranthenes   | 26.53  |
| 2-Fluorophenol             | 24.08  |



INITIAL CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT10

Calibration: GC00046

Lab File ID: NT1003222302.D

Calibration Date: 03/15/2023

Sequence: SLC0397

Injection Date: 03/22/23

Lab Sample ID: SLC0397-ICV1

Injection Time: 17:42

Sequence Name: ABN 5

| COMPOUND                    | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |         |
|-----------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
|                             |      | STD           | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT   |
| Phenol                      | A    | 5.0000        | 4.8  | 1.6490140       | 1.5990200 |     | -3.0         | +/-20   |
| 4-Methylphenol              | A    | 5.0000        | 5.2  | 1.2665770       | 1.3098650 |     | 3.4          | +/-20   |
| Naphthalene                 | A    | 5.0000        | 4.9  | 1.0596590       | 1.0417170 |     | -1.7         | +/-20   |
| 2-Methylnaphthalene         | A    | 5.0000        | 5.1  | 0.7647129       | 0.7832322 |     | 2.4          | +/-20   |
| Acenaphthylene              | A    | 5.0000        | 5.4  | 1.9964080       | 2.1369840 |     | 7.0          | +/-20   |
| Dimethylphthalate           | A    | 5.0000        | 5.0  | 1.2994310       | 1.3055060 |     | 0.5          | +/-20   |
| Acenaphthene                | A    | 5.0000        | 4.9  | 1.2333460       | 1.2089900 |     | -2.0         | +/-20   |
| Dibenzofuran                | A    | 5.0000        | 5.0  | 1.8187540       | 1.8017580 |     | -0.9         | +/-20   |
| Fluorene                    | A    | 5.0000        | 5.0  | 1.4308680       | 1.4446990 |     | 1.0          | +/-20   |
| Phenanthrene                | A    | 5.0000        | 4.8  | 1.0907130       | 1.0521710 |     | -3.5         | +/-20   |
| Anthracene                  | A    | 5.0000        | 5.1  | 1.0462760       | 1.0677510 |     | 2.1          | +/-20   |
| Fluoranthene                | A    | 5.0000        | 4.5  | 1.6072690       | 1.4442660 |     | -10.1        | +/-20   |
| Pyrene                      | A    | 5.0000        | 4.4  | 1.6487720       | 1.4602410 |     | -11.4        | +/-20   |
| Butylbenzylphthalate        | A    | 5.0000        | 4.9  | 0.5292894       | 0.5823633 |     | -2.4         | +/-20   |
| Benzo(a)anthracene          | A    | 5.0000        | 4.9  | 1.4118770       | 1.3731030 |     | -2.7         | +/-20   |
| Chrysene                    | A    | 5.0000        | 4.7  | 1.3793780       | 1.2829100 |     | -7.0         | +/-20   |
| bis(2-Ethylhexyl)phthalate  | A    | 5.0000        | 4.5  | 0.5248968       | 0.5293938 |     | -9.8         | +/-20   |
| Benzo(a)fluoranthene, Total | A    | 10.0000       | 10.0 | 1.2519020       | 1.2510970 |     | -0.06        | +/-20   |
| Benzo(a)pyrene              | A    | 5.0000        | 5.1  | 1.1592370       | 1.1755380 |     | 1.4          | +/-20   |
| Indeno(1,2,3-cd)pyrene      | A    | 5.0000        | 4.9  | 1.4748270       | 1.4480890 |     | -1.8         | +/-20   |
| Dibenzo(a,h)anthracene      | A    | 5.0000        | 5.0  | 1.2244340       | 1.2187680 |     | -0.5         | +/-20   |
| Benzo(g,h,i)perylene        | A    | 5.0000        | 4.9  | 1.2763410       | 1.2597220 |     | -1.3         | +/-20   |
| 2-Fluorophenol              | A    | 7.5000        | 7.32 | 1.2096460       | 1.1801980 |     | -2.4         | +/-20   |
| Phenol-d5                   | A    | 7.5000        | 7.54 | 1.5868760       | 1.5956110 |     | 0.5          | +/-20   |
| 2-Chlorophenol-d4           | A    | 7.5000        | 7.55 | 1.3550800       | 1.3636150 |     | 0.6          | +/-20   |
| 1,2-Dichlorobenzene-d4      | A    | 5.0000        | 4.95 | 0.9731556       | 0.9637192 |     | -1.0         | +/-20   |
| Nitrobenzene-d5             | A    | 5.0000        | 4.87 | 0.4037447       | 0.3930889 |     | -2.6         | +/-20   |
| 2-Fluorobiphenyl            | A    | 5.0000        | 4.87 | 1.5822890       | 1.5403880 |     | -2.6         | +/-20   |
| 2,4,6-Tribromophenol        | A    | 7.5000        | 9.25 | 0.1585901       | 0.2292312 |     | 23.3         | +/-20 * |
| p-Terphenyl-d14             | A    | 5.0000        | 4.68 | 1.2381950       | 1.1588660 |     | -6.4         | +/-20   |

\* Values outside of QC limits



**INITIAL CALIBRATION CHECK**  
**EPA 8270E**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT10</u>                      | Calibration:      | <u>GC00046</u>         |
| Lab File ID:   | <u>NT1003222302.D</u>            | Calibration Date: | <u>03/15/2023</u>      |
| Sequence:      | <u>SLC0397</u>                   | Injection Date:   | <u>03/22/23</u>        |
| Lab Sample ID: | <u>SLC0397-ICV1</u>              | Injection Time:   | <u>17:42</u>           |
| Sequence Name: | <u>ABN 5</u>                     |                   |                        |

| COMPOUND               | TYPE | CONC. (ug/mL) |     | RESPONSE FACTOR |        |     | % DRIFT/DIFF |       |
|------------------------|------|---------------|-----|-----------------|--------|-----|--------------|-------|
|                        |      | STD           | ICV | ICAL            | ICV    | MIN | ICV          | LIMIT |
| 1,4-Dichlorobenzene-d4 | A    | 4.0000        | 4.0 | 42885.5000      | 1.0000 |     |              |       |
| Naphthalene-d8         | A    | 4.0000        | 4.0 | 156116.5000     | 1.0000 |     |              |       |
| Acenaphthene-d10       | A    | 4.0000        | 4.0 | 84306.5000      | 1.0000 |     |              |       |
| Phenanthrene-d10       | A    | 4.0000        | 4.0 | 143212.3000     | 1.0000 |     |              |       |
| Chrysene-d12           | A    | 4.0000        | 4.0 | 86767.0000      | 1.0000 |     |              |       |
| Di-n-Octylphthalate-d4 | A    | 4.0000        | 4.0 | 125079.3000     | 1.0000 |     |              |       |
| Perylene-d12           | A    | 4.0000        | 4.0 | 105387.3000     | 1.0000 |     |              |       |

\* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222302.D

Date: 23-MAR-2023 17:42

Client ID:

Sample Info: SLC0397-ICW1

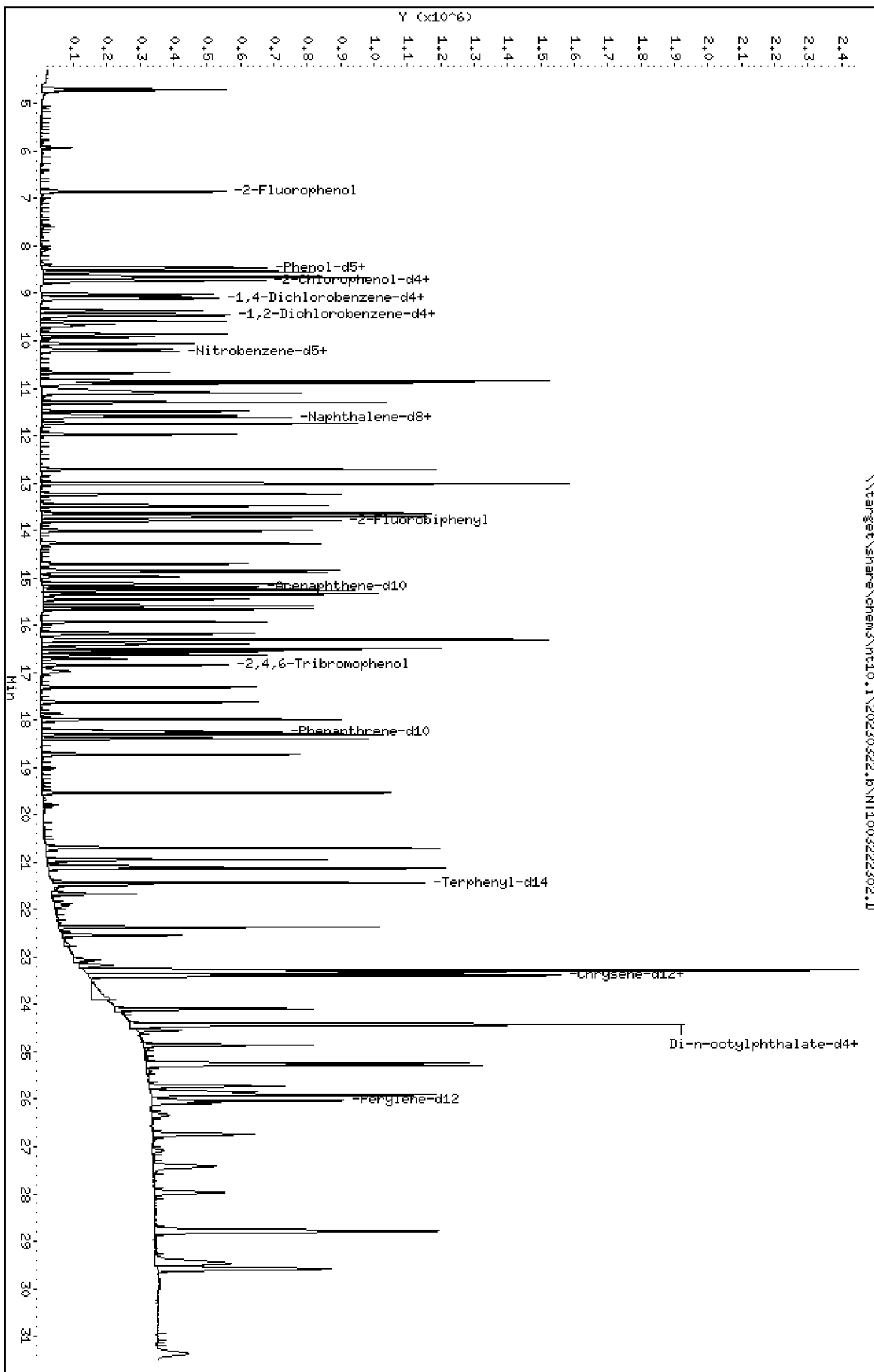
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\NT1003222302.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222302.D  
 Lab Smp Id: SLC0397-ICV1  
 Inj Date : 22-MAR-2023 17:42  
 Operator : VTS  
 Smp Info : SLC0397-ICV1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 07:55 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i  
 Quant Type: ISTD  
 Cal File: NT10031508.D  
 Continuing Calibration Sample  
 Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS |           |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
|                                 |       |     |        |        |         |          | CAL-AMT | ON-COL    |
|                                 | MASS  |     |        |        |         |          | (ug/mL) | (ug/mL)   |
| \$ 1 2-Fluorophenol             | 112   |     | 6.851  | 6.851  | (0.754) | 271028   | 7.50000 | 7.317     |
| \$ 2 Phenol-d5                  | 99    |     | 8.450  | 8.450  | (0.930) | 366426   | 7.50000 | 7.541     |
| 3 Phenol                        | 94    |     | 8.473  | 8.473  | (0.933) | 244806   | 5.00000 | 4.848     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.721  | 8.721  | (0.960) | 313149   | 7.50000 | 7.547     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.628  | 8.628  | (0.950) | 172886   | 5.00000 | 4.617     |
| 6 2-Chlorophenol                | 128   |     | 8.752  | 8.752  | (0.963) | 209607   | 5.00000 | 4.850     |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.022  | 9.022  | (0.993) | 225373   | 5.00000 | 4.933     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.084  | 9.084  | (1.000) | 122478   | 4.00000 |           |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.115  | 9.115  | (1.003) | 217923   | 5.00000 | 4.938     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.449  | 9.449  | (1.040) | 147543   | 5.00000 | 4.952     |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.472  | 9.472  | (1.043) | 215681   | 5.00000 | 4.966     |
| 11 Benzyl alcohol               | 108   |     | 9.356  | 9.356  | (1.030) | 126669   | 5.00000 | 5.345     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.659  | 9.659  | (1.063) | 61021    | 5.00000 | 4.784 (M) |
| 13 2-Methylphenol               | 108   |     | 9.589  | 9.589  | (1.056) | 185852   | 5.00000 | 5.049     |
| 17 Hexachloroethane             | 117   |     | 10.062 | 10.062 | (1.108) | 88698    | 5.00000 | 4.898     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.923  | 9.923  | (1.092) | 138832   | 5.00000 | 4.777     |
| 15 4-Methylphenol               | 108   |     | 9.853  | 9.853  | (1.085) | 200537   | 5.00000 | 5.171     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.187 | 10.187 | (0.880) | 225663   | 5.00000 | 4.868     |
| 19 Nitrobenzene                 | 77    |     | 10.218 | 10.218 | (0.883) | 210918   | 5.00000 | 4.636     |
| 20 Isophorone                   | 82    |     | 10.668 | 10.668 | (0.922) | 276794   | 5.00000 | 4.756     |
| 21 2-Nitrophenol                | 139   |     | 10.850 | 10.850 | (0.938) | 132878   | 5.00000 | 5.969     |
| 22 2,4-Dimethylphenol           | 107   |     | 10.901 | 10.901 | (0.942) | 356709   | 10.0000 | 8.537     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.096 | 11.096 | (0.959) | 185722   | 5.00000 | 4.778     |
| 24 Benzoic acid                 | 105   |     | 11.104 | 11.104 | (0.960) | 557209   | 20.0000 | 22.74     |
| 25 2,4-Dichlorophenol           | 162   |     | 11.300 | 11.300 | (0.976) | 386083   | 10.0000 | 11.55     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.487 | 11.487 | (0.993) | 192033   | 5.00000 | 4.892     |
| * 27 Naphthalene-d8             | 136   |     | 11.572 | 11.572 | (1.000) | 459261   | 4.00000 |           |
| 28 Naphthalene                  | 128   |     | 11.611 | 11.611 | (1.003) | 598025   | 5.00000 | 4.915     |
| 29 4-Chloroaniline              | 127   |     | 11.750 | 11.750 | (1.015) | 519939   | 10.0000 | 10.95     |
| 30 Hexachlorobutadiene          | 225   |     | 11.974 | 11.974 | (1.035) | 121209   | 5.00000 | 5.270     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.709 | 12.709 | (1.098) | 376243   | 10.0000 | 10.39     |
| 32 2-Methylnaphthalene          | 142   |     | 13.011 | 13.011 | (1.124) | 449635   | 5.00000 | 5.121     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.475 | 13.475 | (0.887) | 250601   | 10.0000 | 10.25     |

| Compounds                         | QUANT SIG |        |        |         |          | AMOUNTS            |                   |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 13.637 | 13.637 | (0.898) | 277292   | 10.0000            | 10.62             |
| 35 2,4,5-Trichlorophenol          | 196       | 13.707 | 13.707 | (0.902) | 296439   | 10.0000            | 10.22             |
| § 36 2-Fluorobiphenyl             | 172       | 13.800 | 13.800 | (0.908) | 508532   | 5.00000            | 4.868             |
| 37 2-Chloronaphthalene            | 162       | 14.009 | 14.009 | (0.922) | 401206   | 5.00000            | 4.743             |
| 38 2-Nitroaniline                 | 65        | 14.272 | 14.272 | (0.939) | 231211   | 10.0000            | 9.730             |
| 39 Dimethylphthalate              | 163       | 14.706 | 14.706 | (0.968) | 430990   | 5.00000            | 5.023             |
| 40 Acenaphthylene                 | 152       | 14.884 | 14.884 | (0.980) | 705488   | 5.00000            | 5.352             |
| 41 2,6-Dinitrotoluene             | 165       | 14.845 | 14.845 | (0.977) | 206856   | 10.0000            | 11.16             |
| * 42 Acenaphthene-d10             | 164       | 15.193 | 15.193 | (1.000) | 264106   | 4.00000            |                   |
| 43 3-Nitroaniline                 | 138       | 15.131 | 15.131 | (0.996) | 225341   | 10.0000            | 10.77             |
| 44 Acenaphthene                   | 153       | 15.263 | 15.263 | (1.005) | 399127   | 5.00000            | 4.901             |
| 45 2,4-Dinitrophenol              | 184       | 15.340 | 15.340 | (1.010) | 276058   | 20.0000            | 23.51             |
| 46 Dibenzofuran                   | 168       | 15.595 | 15.595 | (1.026) | 594819   | 5.00000            | 4.953             |
| 47 4-Nitrophenol                  | 109       | 15.456 | 15.456 | (1.017) | 116564   | 10.0000            | 8.908             |
| 48 2,4-Dinitrotoluene             | 165       | 15.657 | 15.657 | (1.031) | 287629   | 10.0000            | 10.43             |
| 50 Diethylphthalate               | 149       | 16.175 | 16.175 | (1.065) | 489083   | 5.00000            | 5.810             |
| 49 Fluorene                       | 166       | 16.306 | 16.306 | (1.073) | 476942   | 5.00000            | 5.048             |
| 51 4-Chlorophenyl-phenylether     | 204       | 16.298 | 16.298 | (1.073) | 227520   | 5.00000            | 5.064             |
| 52 4-Nitroaniline                 | 138       | 16.406 | 16.406 | (1.080) | 216492   | 10.0000            | 11.48             |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 16.499 | 16.499 | (0.904) | 340606   | 20.0000            | 21.87             |
| 54 N-Nitrosodiphenylamine         | 169       | 16.553 | 16.553 | (0.907) | 318924   | 5.00000            | 4.740             |
| § 55 2,4,6-Tribromophenol         | 330       | 16.846 | 16.846 | (1.109) | 113515   | 7.50000            | 9.247             |
| 56 4-Bromophenyl-phenylether      | 248       | 17.308 | 17.308 | (0.948) | 145055   | 5.00000            | 5.153             |
| 57 Hexachlorobenzene              | 284       | 17.626 | 17.626 | (0.966) | 153402   | 5.00000            | 5.198             |
| 58 Pentachlorophenol              | 266       | 17.990 | 17.990 | (0.986) | 194642   | 10.0000            | 10.92             |
| * 59 Phenanthrene-d10             | 188       | 18.253 | 18.253 | (1.000) | 503255   | 4.00000            |                   |
| 60 Phenanthrene                   | 178       | 18.299 | 18.299 | (1.003) | 661888   | 5.00000            | 4.823             |
| 61 Anthracene                     | 178       | 18.392 | 18.392 | (1.008) | 671689   | 5.00000            | 5.103             |
| 62 Carbazole                      | 167       | 18.725 | 18.725 | (1.026) | 595176   | 5.00000            | 5.046             |
| 63 Di-n-butylphthalate            | 149       | 19.545 | 19.545 | (1.071) | 789673   | 5.00000            | 5.006             |
| 64 Fluoranthene                   | 202       | 20.705 | 20.705 | (0.887) | 790257   | 5.00000            | 4.493             |
| 65 Pyrene                         | 202       | 21.131 | 21.131 | (0.905) | 798998   | 5.00000            | 4.428             |
| § 66 Terphenyl-d14                | 244       | 21.425 | 21.425 | (0.918) | 634095   | 5.00000            | 4.680             |
| 67 Butylbenzylphthalate           | 149       | 22.369 | 22.369 | (0.958) | 318651   | 5.00000            | 4.878             |
| 68 Benzo(a)anthracene             | 228       | 23.314 | 23.314 | (0.999) | 751319   | 5.00000            | 4.863             |
| * 69 Chrysene-d12                 | 240       | 23.345 | 23.345 | (1.000) | 437735   | 4.00000            |                   |
| 70 3,3'-Dichlorobenzidine         | 252       | 23.275 | 23.275 | (0.997) | 735093   | 15.0000            | 14.85             |
| 71 Chrysene                       | 228       | 23.392 | 23.392 | (1.002) | 701968   | 5.00000            | 4.650             |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 23.407 | 23.407 | (0.959) | 463346   | 5.00000            | 4.512             |
| * 134 Di-n-octylphthalate-d4      | 153       | 24.413 | 24.413 | (1.000) | 700191   | 4.00000            |                   |
| 73 Di-n-octylphthalate            | 149       | 24.429 | 24.429 | (1.001) | 851570   | 5.00000            | 4.647             |
| 74 Benzo(b)fluoranthene           | 252       | 25.242 | 25.242 | (0.970) | 842815   | 5.00000            | 5.210             |
| 75 Benzo(k)fluoranthene           | 252       | 25.288 | 25.288 | (0.972) | 792795   | 5.00000            | 4.826             |
| 76 Benzo(a)pyrene                 | 252       | 25.908 | 25.908 | (0.996) | 733314   | 5.00000            | 5.070             |
| * 77 Perylene-d12                 | 264       | 26.024 | 26.024 | (1.000) | 499049   | 4.00000            |                   |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 28.769 | 28.769 | (1.105) | 903334   | 5.00000            | 4.909             |
| 79 Dibenzo(a,h)anthracene         | 278       | 28.800 | 28.800 | (1.107) | 760281   | 5.00000            | 4.977             |
| 80 Benzo(g,h,i)perylene           | 276       | 29.577 | 29.577 | (1.137) | 785829   | 5.00000            | 4.935             |
| 90 N-Nitrosodimethylamine         | 74        | 4.673  | 4.673  | (0.514) | 218948   | 10.0000            | 9.266             |
| 91 Aniline                        | 93        | 8.543  | 8.543  | (0.940) | 496907   | 10.0000            | 9.605             |
| 93 Benzidine                      | 184       | 20.945 | 20.945 | (0.897) | 524941   | 10.0000            | 7.266             |
| 103 Pyridine                      | 79        | 4.704  | 4.704  | (0.518) | 344839   | 10.0000            | 9.502             |
| 105 1-methylnaphthalene           | 142       | 13.235 | 13.235 | (1.144) | 407581   | 5.00000            | 5.067             |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 16.630 | 16.630 | (1.095) | 430910   | 5.00000            | 4.582             |



| Compounds                     | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                               | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       |  | 25.288 | 25.288 | (0.972) | 1560897  | 10.0000            | 9.994             |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 15.935 | 15.935 | (1.049) | 171535   | 5.00000            | 6.195             |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 22-MAR-2023  
 Lab File ID: NT1003222302.D Calibration Time: 12:00  
 Lab Smp Id: SLC0397-ICV1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 122478   | 61239      | 244956  | 122478 | 0.00  |
| 27 Naphthalene-d8     | 459261   | 229631     | 918522  | 459261 | 0.00  |
| 42 Acenaphthene-d10   | 264106   | 132053     | 528212  | 264106 | 0.00  |
| 59 Phenanthrene-d10   | 503255   | 251628     | 1006510 | 503255 | 0.00  |
| 69 Chrysene-d12       | 437735   | 218868     | 875470  | 437735 | 0.00  |
| 134 Di-n-octylphthala | 700191   | 350096     | 1400382 | 700191 | 0.00  |
| 77 Perylene-d12       | 499049   | 249525     | 998098  | 499049 | 0.00  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.08     | 8.58     | 9.58  | 9.08   | 0.00  |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.57  | 0.00  |
| 42 Acenaphthene-d10   | 15.19    | 14.69    | 15.69 | 15.19  | 0.00  |
| 59 Phenanthrene-d10   | 18.25    | 17.75    | 18.75 | 18.25  | 0.00  |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.35  | 0.00  |
| 134 Di-n-octylphthala | 24.41    | 23.91    | 24.91 | 24.41  | 0.00  |
| 77 Perylene-d12       | 26.02    | 25.52    | 26.52 | 26.02  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222302.D

Lab ID: SLC0397-ICV1  
nt10.i, 20230322.b\ABN.m, 22-MAR-2023 17:42

RT CO-ELUTION COMPOUNDS

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NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

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NONE

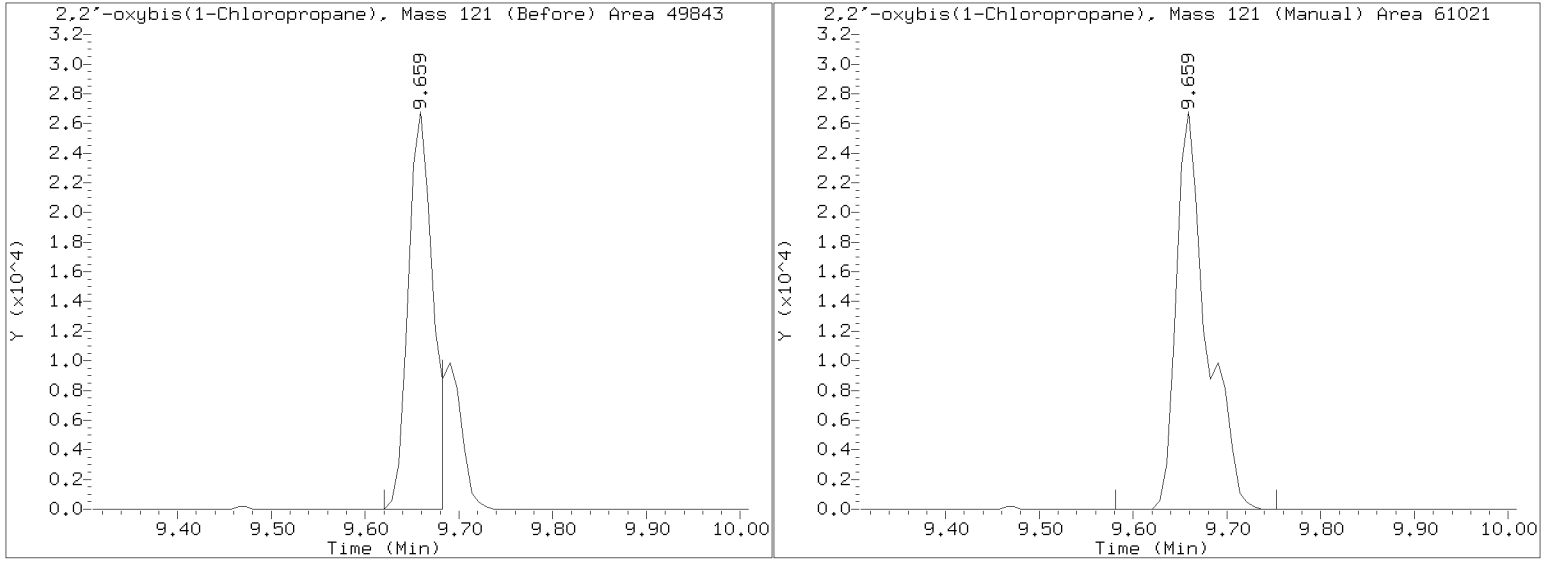
No RRT check. Ccal file.

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222302.D  
Injection Date: 22-MAR-2023 17:42  
Lab ID: SLC0397-ICV1 Client ID:  
Report Date: 03/25/2023 07:55



Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b

Instrument: nt10.i Date: 22-MAR-2023 Method: 20230322.b\ABN.m

INITIAL CAL: 15-MAR-2023

| Compound   | %RSD or R <sup>2</sup> |
|------------|------------------------|
| -----      |                        |
| NO Q-FLAGS |                        |
| -----      |                        |

ICV CAL: NT1003222302.D 22-MAR-2023 17:42

| Compound                  | %D    |
|---------------------------|-------|
| -----                     |       |
| Benzidine                 | -27.3 |
| 2,3,4,6-Tetrachlorophenol | 23.9  |
| 2,4,6-Tribromophenol      | 23.3  |
| -----                     |       |



INITIAL CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT10

Calibration: GC00046

Lab File ID: NT1003222317.D

Calibration Date: 03/15/2023

Sequence: SLC0397

Injection Date: 03/23/23

Lab Sample ID: SLC0397-ICV2

Injection Time: 03:15

Sequence Name: ABN 5

| COMPOUND                    | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |       |
|-----------------------------|------|---------------|------|-----------------|-----------|-----|--------------|-------|
|                             |      | STD           | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT |
| Phenol                      | A    | 5.0000        | 4.7  | 1.6490140       | 1.5509600 |     | -5.9         | +/-20 |
| 4-Methylphenol              | A    | 5.0000        | 4.9  | 1.2665770       | 1.2536180 |     | -1.0         | +/-20 |
| Naphthalene                 | A    | 5.0000        | 4.8  | 1.0596590       | 1.0159230 |     | -4.1         | +/-20 |
| 2-Methylnaphthalene         | A    | 5.0000        | 5.1  | 0.7647129       | 0.7838136 |     | 2.5          | +/-20 |
| Acenaphthylene              | A    | 5.0000        | 4.9  | 1.9964080       | 1.9529170 |     | -2.2         | +/-20 |
| Dimethylphthalate           | A    | 5.0000        | 5.1  | 1.2994310       | 1.3204790 |     | 1.6          | +/-20 |
| Acenaphthene                | A    | 5.0000        | 4.8  | 1.2333460       | 1.1876670 |     | -3.7         | +/-20 |
| Dibenzofuran                | A    | 5.0000        | 4.8  | 1.8187540       | 1.7631990 |     | -3.1         | +/-20 |
| Fluorene                    | A    | 5.0000        | 5.0  | 1.4308680       | 1.4295500 |     | -0.1         | +/-20 |
| Phenanthrene                | A    | 5.0000        | 4.9  | 1.0907130       | 1.0632580 |     | -2.5         | +/-20 |
| Anthracene                  | A    | 5.0000        | 5.1  | 1.0462760       | 1.0708350 |     | 2.3          | +/-20 |
| Fluoranthene                | A    | 5.0000        | 4.4  | 1.6072690       | 1.4043260 |     | -12.6        | +/-20 |
| Pyrene                      | A    | 5.0000        | 4.9  | 1.6487720       | 1.5993440 |     | -3.0         | +/-20 |
| Butylbenzylphthalate        | A    | 5.0000        | 5.1  | 0.5292894       | 0.6133943 |     | 2.6          | +/-20 |
| Benzo(a)anthracene          | A    | 5.0000        | 5.0  | 1.4118770       | 1.4149760 |     | 0.2          | +/-20 |
| Chrysene                    | A    | 5.0000        | 4.7  | 1.3793780       | 1.3021760 |     | -5.6         | +/-20 |
| bis(2-Ethylhexyl)phthalate  | A    | 5.0000        | 4.5  | 0.5248968       | 0.5293315 |     | -9.8         | +/-20 |
| Benzo(a)fluoranthene, Total | A    | 10.0000       | 10.0 | 1.2519020       | 1.2529800 |     | 0.1          | +/-20 |
| Benzo(a)pyrene              | A    | 5.0000        | 5.2  | 1.1592370       | 1.1980280 |     | 3.3          | +/-20 |
| Indeno(1,2,3-cd)pyrene      | A    | 5.0000        | 4.6  | 1.4748270       | 1.3624220 |     | -7.6         | +/-20 |
| Dibenzo(a,h)anthracene      | A    | 5.0000        | 4.7  | 1.2244340       | 1.1463490 |     | -6.4         | +/-20 |
| Benzo(g,h,i)perylene        | A    | 5.0000        | 4.4  | 1.2763410       | 1.1219030 |     | -12.1        | +/-20 |
| 2-Fluorophenol              | A    | 7.5000        | 7.52 | 1.2096460       | 1.2125390 |     | 0.2          | +/-20 |
| Phenol-d5                   | A    | 7.5000        | 7.43 | 1.5868760       | 1.5719500 |     | -0.9         | +/-20 |
| 2-Chlorophenol-d4           | A    | 7.5000        | 7.56 | 1.3550800       | 1.3664900 |     | 0.8          | +/-20 |
| 1,2-Dichlorobenzene-d4      | A    | 5.0000        | 4.89 | 0.9731556       | 0.9507525 |     | -2.3         | +/-20 |
| Nitrobenzene-d5             | A    | 5.0000        | 4.83 | 0.4037447       | 0.3900038 |     | -3.4         | +/-20 |
| 2-Fluorobiphenyl            | A    | 5.0000        | 4.91 | 1.5822890       | 1.5528510 |     | -1.9         | +/-20 |
| 2,4,6-Tribromophenol        | A    | 7.5000        | 8.92 | 0.1585901       | 0.2211559 |     | 18.9         | +/-20 |
| p-Terphenyl-d14             | A    | 5.0000        | 4.71 | 1.2381950       | 1.1656830 |     | -5.9         | +/-20 |

\* Values outside of QC limits



**INITIAL CALIBRATION CHECK**  
**EPA 8270E**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT10</u>                      | Calibration:      | <u>GC00046</u>         |
| Lab File ID:   | <u>NT1003222317.D</u>            | Calibration Date: | <u>03/15/2023</u>      |
| Sequence:      | <u>SLC0397</u>                   | Injection Date:   | <u>03/23/23</u>        |
| Lab Sample ID: | <u>SLC0397-ICV2</u>              | Injection Time:   | <u>03:15</u>           |
| Sequence Name: | <u>ABN 5</u>                     |                   |                        |

| COMPOUND               | TYPE | CONC. (ug/mL) |     | RESPONSE FACTOR |        |     | % DRIFT/DIFF |       |
|------------------------|------|---------------|-----|-----------------|--------|-----|--------------|-------|
|                        |      | STD           | ICV | ICAL            | ICV    | MIN | ICV          | LIMIT |
| 1,4-Dichlorobenzene-d4 | A    | 4.0000        | 4.0 | 42885.5000      | 1.0000 |     |              |       |
| Naphthalene-d8         | A    | 4.0000        | 4.0 | 156116.5000     | 1.0000 |     |              |       |
| Acenaphthene-d10       | A    | 4.0000        | 4.0 | 84306.5000      | 1.0000 |     |              |       |
| Phenanthrene-d10       | A    | 4.0000        | 4.0 | 143212.3000     | 1.0000 |     |              |       |
| Chrysene-d12           | A    | 4.0000        | 4.0 | 86767.0000      | 1.0000 |     |              |       |
| Di-n-Octylphthalate-d4 | A    | 4.0000        | 4.0 | 125079.3000     | 1.0000 |     |              |       |
| Perylene-d12           | A    | 4.0000        | 4.0 | 105387.3000     | 1.0000 |     |              |       |

\* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222317.D

Date: 23-MAR-2023 03:15

Client ID:

Sample Info: SLC0397-ICW2

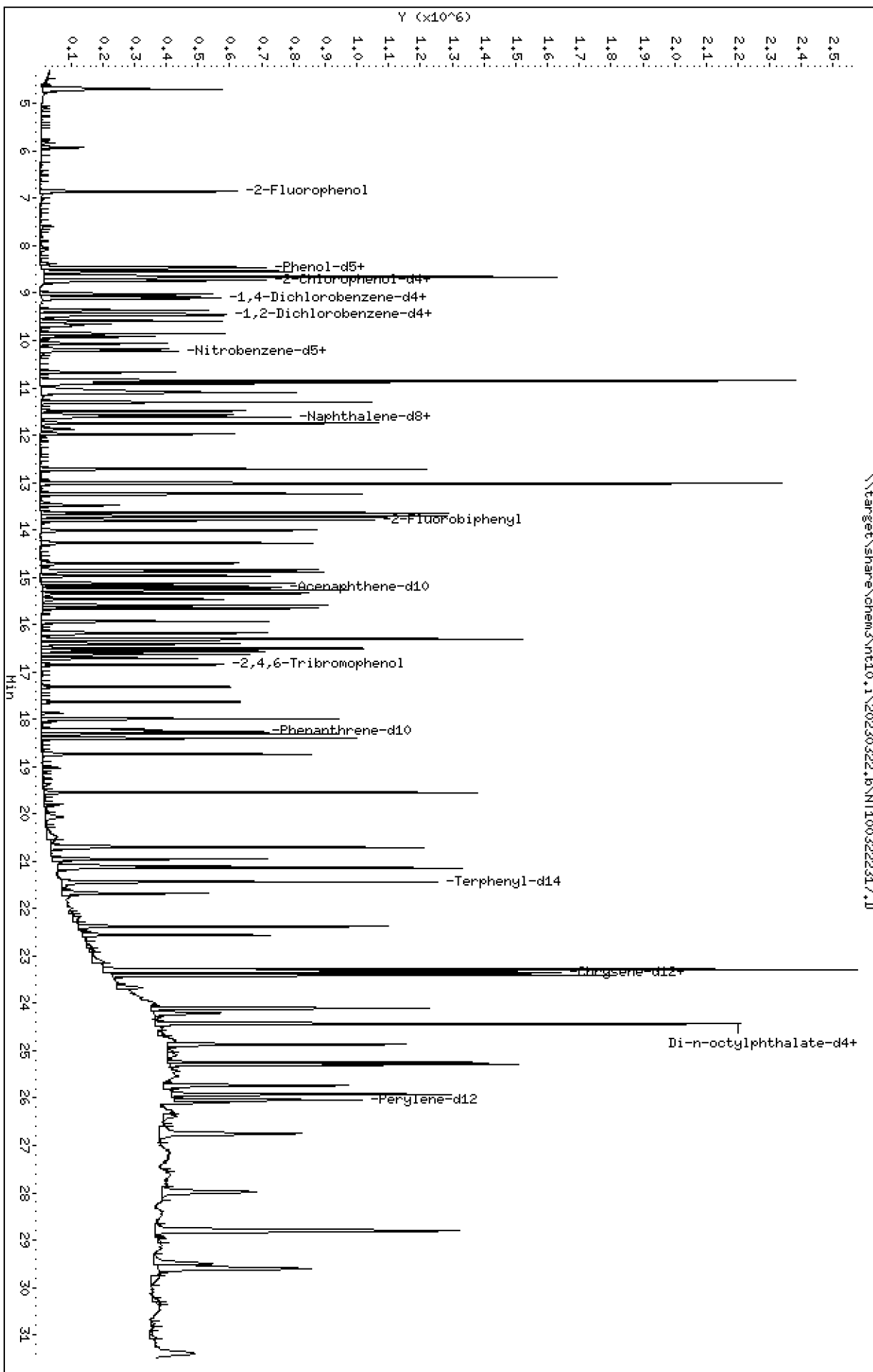
Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Column phase: ZB-5msi

\\target\share\chem3\nt10.1\20230322.16\NT1003222317.D





ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222317.D  
 Lab Smp Id: SLC0397-ICV2  
 Inj Date : 23-MAR-2023 03:15  
 Operator : VTS  
 Smp Info : SLC0397-ICV2  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 10:11 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD

Cal File: NT10031508.D

Continuing Calibration Sample

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS |           |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
|                                 |       |     |        |        |         |          | CAL-AMT | ON-COL    |
|                                 | MASS  |     |        |        |         |          | (ug/mL) | (ug/mL)   |
| \$ 1 2-Fluorophenol             | 112   |     | 6.851  | 6.851  | (0.754) | 312842   | 7.50000 | 7.518     |
| \$ 2 Phenol-d5                  | 99    |     | 8.450  | 8.450  | (0.930) | 405572   | 7.50000 | 7.429     |
| 3 Phenol                        | 94    |     | 8.474  | 8.474  | (0.933) | 266771   | 5.00000 | 4.703     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.721  | 8.721  | (0.960) | 352562   | 7.50000 | 7.563     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.628  | 8.628  | (0.950) | 194070   | 5.00000 | 4.613     |
| 6 2-Chlorophenol                | 128   |     | 8.752  | 8.752  | (0.963) | 236154   | 5.00000 | 4.864     |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.022  | 9.022  | (0.993) | 242288   | 5.00000 | 4.720     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.085  | 9.085  | (1.000) | 137603   | 4.00000 |           |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.116  | 9.116  | (1.003) | 239844   | 5.00000 | 4.837     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.441  | 9.441  | (1.039) | 163533   | 5.00000 | 4.885     |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.473  | 9.473  | (1.043) | 235732   | 5.00000 | 4.831     |
| 11 Benzyl alcohol               | 108   |     | 9.356  | 9.356  | (1.030) | 140125   | 5.00000 | 5.263     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.659  | 9.659  | (1.063) | 66581    | 5.00000 | 4.646 (M) |
| 13 2-Methylphenol               | 108   |     | 9.589  | 9.589  | (1.056) | 198967   | 5.00000 | 4.811     |
| 17 Hexachloroethane             | 117   |     | 10.063 | 10.063 | (1.108) | 80360    | 5.00000 | 3.950     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.915  | 9.915  | (1.091) | 147890   | 5.00000 | 4.529     |
| 15 4-Methylphenol               | 108   |     | 9.861  | 9.861  | (1.085) | 215627   | 5.00000 | 4.949     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.179 | 10.179 | (0.880) | 241114   | 5.00000 | 4.830     |
| 19 Nitrobenzene                 | 77    |     | 10.218 | 10.218 | (0.883) | 223586   | 5.00000 | 4.564     |
| 20 Isophorone                   | 82    |     | 10.668 | 10.668 | (0.922) | 302156   | 5.00000 | 4.821     |
| 21 2-Nitrophenol                | 139   |     | 10.850 | 10.850 | (0.938) | 154114   | 5.00000 | 6.425     |
| 22 2,4-Dimethylphenol           | 107   |     | 10.901 | 10.901 | (0.942) | 372917   | 10.0000 | 8.287     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.096 | 11.096 | (0.959) | 196114   | 5.00000 | 4.684     |
| 24 Benzoic acid                 | 105   |     | 11.105 | 11.105 | (0.960) | 558834   | 20.0000 | 21.26     |
| 25 2,4-Dichlorophenol           | 162   |     | 11.308 | 11.308 | (0.977) | 424316   | 10.0000 | 11.78     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.487 | 11.487 | (0.993) | 207972   | 5.00000 | 4.920     |
| * 27 Naphthalene-d8             | 136   |     | 11.572 | 11.572 | (1.000) | 494588   | 4.00000 |           |
| 28 Naphthalene                  | 128   |     | 11.618 | 11.618 | (1.004) | 628079   | 5.00000 | 4.794     |
| 29 4-Chloroaniline              | 127   |     | 11.750 | 11.750 | (1.015) | 520689   | 10.0000 | 10.19     |
| 30 Hexachlorobutadiene          | 225   |     | 11.981 | 11.981 | (1.035) | 130095   | 5.00000 | 5.253     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.717 | 12.717 | (1.099) | 391915   | 10.0000 | 10.05     |
| 32 2-Methylnaphthalene          | 142   |     | 13.018 | 13.018 | (1.125) | 484581   | 5.00000 | 5.125     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.483 | 13.483 | (0.887) | 69558    | 10.0000 | 2.697     |

| Compounds                         | QUANT SIG |        |        |         |          | AMOUNTS            |                   |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 13.638 | 13.638 | (0.897) | 307010   | 10.0000            | 11.15             |
| 35 2,4,5-Trichlorophenol          | 196       | 13.715 | 13.715 | (0.902) | 324659   | 10.0000            | 10.61             |
| § 36 2-Fluorobiphenyl             | 172       | 13.800 | 13.800 | (0.908) | 540924   | 5.00000            | 4.907             |
| 37 2-Chloronaphthalene            | 162       | 14.009 | 14.009 | (0.922) | 439787   | 5.00000            | 4.927             |
| 38 2-Nitroaniline                 | 65        | 14.272 | 14.272 | (0.939) | 232142   | 10.0000            | 9.259             |
| 39 Dimethylphthalate              | 163       | 14.706 | 14.706 | (0.967) | 459979   | 5.00000            | 5.081             |
| 40 Acenaphthylene                 | 152       | 14.884 | 14.884 | (0.979) | 680284   | 5.00000            | 4.891             |
| 41 2,6-Dinitrotoluene             | 165       | 14.845 | 14.845 | (0.977) | 215192   | 10.0000            | 11.00             |
| * 42 Acenaphthene-d10             | 164       | 15.201 | 15.201 | (1.000) | 278674   | 4.00000            |                   |
| 43 3-Nitroaniline                 | 138       | 15.131 | 15.131 | (0.995) | 228241   | 10.0000            | 10.34             |
| 44 Acenaphthene                   | 153       | 15.263 | 15.263 | (1.004) | 413715   | 5.00000            | 4.815             |
| 45 2,4-Dinitrophenol              | 184       | 15.348 | 15.348 | (1.010) | 243819   | 20.0000            | 19.84             |
| 46 Dibenzofuran                   | 168       | 15.595 | 15.595 | (1.026) | 614197   | 5.00000            | 4.847             |
| 47 4-Nitrophenol                  | 109       | 15.464 | 15.464 | (1.017) | 114794   | 10.0000            | 8.311             |
| 48 2,4-Dinitrotoluene             | 165       | 15.657 | 15.657 | (1.030) | 300261   | 10.0000            | 10.32             |
| 50 Diethylphthalate               | 149       | 16.175 | 16.175 | (1.064) | 517008   | 5.00000            | 5.821             |
| 49 Fluorene                       | 166       | 16.314 | 16.314 | (1.073) | 497973   | 5.00000            | 4.995             |
| 51 4-Chlorophenyl-phenylether     | 204       | 16.306 | 16.306 | (1.073) | 238252   | 5.00000            | 5.026             |
| 52 4-Nitroaniline                 | 138       | 16.406 | 16.406 | (1.079) | 214813   | 10.0000            | 10.80             |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 16.507 | 16.507 | (0.904) | 309237   | 20.0000            | 19.67             |
| 54 N-Nitrosodiphenylamine         | 169       | 16.561 | 16.561 | (0.907) | 322121   | 5.00000            | 4.731             |
| § 55 2,4,6-Tribromophenol         | 330       | 16.846 | 16.846 | (1.108) | 115557   | 7.50000            | 8.918             |
| 56 4-Bromophenyl-phenylether      | 248       | 17.316 | 17.316 | (0.948) | 153988   | 5.00000            | 5.407             |
| 57 Hexachlorobenzene              | 284       | 17.634 | 17.634 | (0.966) | 160413   | 5.00000            | 5.372             |
| 58 Pentachlorophenol              | 266       | 17.990 | 17.990 | (0.985) | 195336   | 10.0000            | 10.83             |
| * 59 Phenanthrene-d10             | 188       | 18.260 | 18.260 | (1.000) | 509229   | 4.00000            |                   |
| 60 Phenanthrene                   | 178       | 18.307 | 18.307 | (1.003) | 676802   | 5.00000            | 4.874             |
| 61 Anthracene                     | 178       | 18.400 | 18.400 | (1.008) | 681625   | 5.00000            | 5.117             |
| 62 Carbazole                      | 167       | 18.732 | 18.732 | (1.026) | 607912   | 5.00000            | 5.093             |
| 63 Di-n-butylphthalate            | 149       | 19.545 | 19.545 | (1.070) | 838174   | 5.00000            | 5.252             |
| 64 Fluoranthene                   | 202       | 20.713 | 20.713 | (0.887) | 811474   | 5.00000            | 4.369             |
| 65 Pyrene                         | 202       | 21.139 | 21.139 | (0.905) | 924163   | 5.00000            | 4.850             |
| § 66 Terphenyl-d14                | 244       | 21.433 | 21.433 | (0.918) | 673577   | 5.00000            | 4.707             |
| 67 Butylbenzylphthalate           | 149       | 22.377 | 22.377 | (0.958) | 354443   | 5.00000            | 5.129             |
| 68 Benzo(a)anthracene             | 228       | 23.322 | 23.322 | (0.999) | 817628   | 5.00000            | 5.011             |
| * 69 Chrysene-d12                 | 240       | 23.353 | 23.353 | (1.000) | 462271   | 4.00000            |                   |
| 70 3,3'-Dichlorobenzidine         | 252       | 23.283 | 23.283 | (0.997) | 867437   | 15.0000            | 16.60             |
| 71 Chrysene                       | 228       | 23.399 | 23.399 | (1.002) | 752448   | 5.00000            | 4.720             |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 23.415 | 23.415 | (0.959) | 517800   | 5.00000            | 4.511             |
| * 134 Di-n-octylphthalate-d4      | 153       | 24.421 | 24.421 | (1.000) | 782572   | 4.00000            |                   |
| 73 Di-n-octylphthalate            | 149       | 24.437 | 24.437 | (1.001) | 938667   | 5.00000            | 4.583             |
| 74 Benzo(b)fluoranthene           | 252       | 25.250 | 25.250 | (0.970) | 883434   | 5.00000            | 4.945             |
| 75 Benzo(k)fluoranthene           | 252       | 25.296 | 25.296 | (0.971) | 919032   | 5.00000            | 5.066             |
| 76 Benzo(a)pyrene                 | 252       | 25.923 | 25.923 | (0.996) | 825371   | 5.00000            | 5.167             |
| * 77 Perylene-d12                 | 264       | 26.040 | 26.040 | (1.000) | 551153   | 4.00000            |                   |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 28.793 | 28.793 | (1.106) | 938629   | 5.00000            | 4.619             |
| 79 Dibenzo(a,h)anthracene         | 278       | 28.816 | 28.816 | (1.107) | 789767   | 5.00000            | 4.681             |
| 80 Benzo(g,h,i)perylene           | 276       | 29.601 | 29.601 | (1.137) | 772925   | 5.00000            | 4.395             |
| 90 N-Nitrosodimethylamine         | 74        | 4.665  | 4.665  | (0.514) | 243140   | 10.0000            | 9.158             |
| 91 Aniline                        | 93        | 8.543  | 8.543  | (0.940) | 538351   | 10.0000            | 9.262             |
| 93 Benzidine                      | 184       | 20.953 | 20.953 | (0.897) | 449114   | 10.0000            | 5.886             |
| 103 Pyridine                      | 79        | 4.696  | 4.696  | (0.517) | 371071   | 10.0000            | 9.101             |
| 105 1-methylnaphthalene           | 142       | 13.235 | 13.235 | (1.144) | 436621   | 5.00000            | 5.040             |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 16.630 | 16.630 | (1.094) | 424023   | 5.00000            | 4.274             |

| Compounds                     | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                               | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       |  | 25.296 | 25.296 | (0.971) | 1726459  | 10.0000            | 10.01             |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 15.935 | 15.935 | (1.048) | 186459   | 5.00000            | 6.373             |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 22-MAR-2023  
 Lab File ID: NT1003222317.D Calibration Time: 17:42  
 Lab Smp Id: SLC0397-ICV2  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 137603   | 68802      | 275206  | 137603 | 0.00  |
| 27 Naphthalene-d8     | 494588   | 247294     | 989176  | 494588 | 0.00  |
| 42 Acenaphthene-d10   | 278674   | 139337     | 557348  | 278674 | 0.00  |
| 59 Phenanthrene-d10   | 509229   | 254615     | 1018458 | 509229 | 0.00  |
| 69 Chrysene-d12       | 462271   | 231136     | 924542  | 462271 | 0.00  |
| 134 Di-n-octylphthala | 782572   | 391286     | 1565144 | 782572 | 0.00  |
| 77 Perylene-d12       | 551153   | 275577     | 1102306 | 551153 | 0.00  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.09     | 8.59     | 9.59  | 9.09   | 0.00  |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.57  | 0.00  |
| 42 Acenaphthene-d10   | 15.20    | 14.70    | 15.70 | 15.20  | 0.00  |
| 59 Phenanthrene-d10   | 18.26    | 17.76    | 18.76 | 18.26  | 0.00  |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.35  | 0.00  |
| 134 Di-n-octylphthala | 24.42    | 23.92    | 24.92 | 24.42  | 0.00  |
| 77 Perylene-d12       | 26.04    | 25.54    | 26.54 | 26.04  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222317.D

Lab ID: SLC0397-ICV2  
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 03:15

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

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NONE

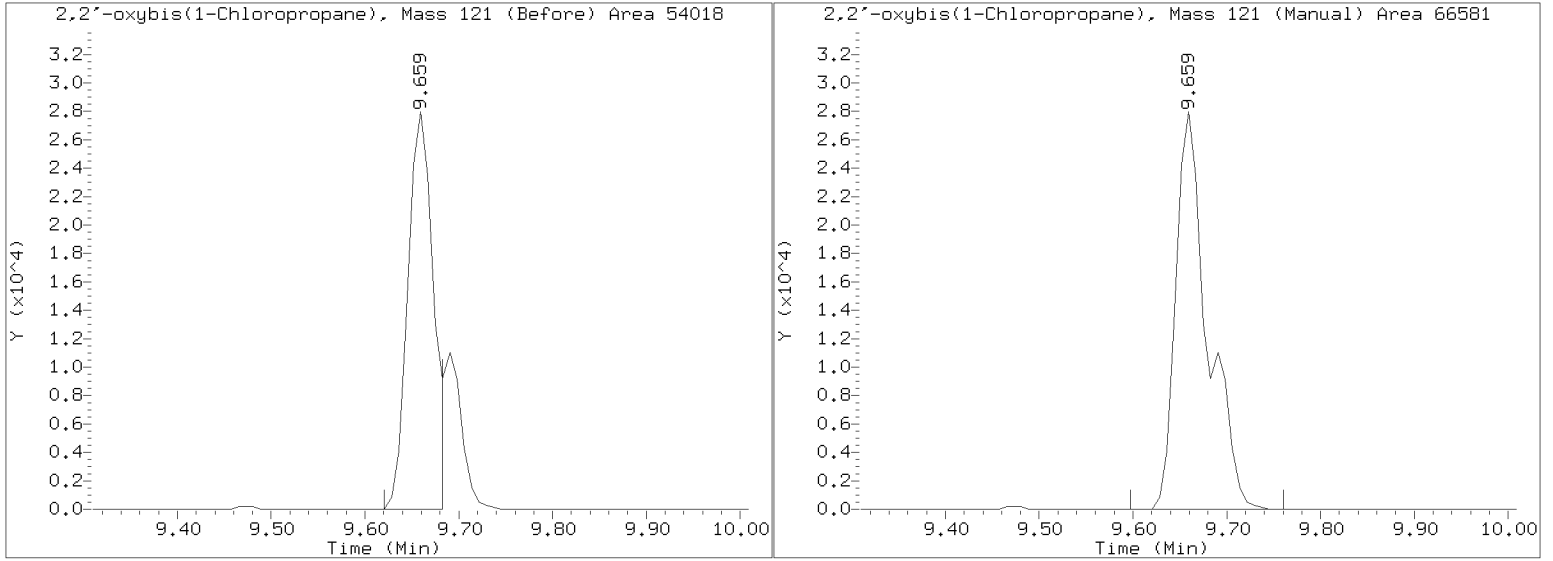
No RRT check. Ccal file.

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222317.D  
Injection Date: 23-MAR-2023 03:15  
Lab ID: SLC0397-ICV2 Client ID:  
Report Date: 03/25/2023 10:11



Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b

Instrument: nt10.i Date: 23-MAR-2023 Method: 20230322.b\ABN.m

INITIAL CAL: 15-MAR-2023

| Compound   | %RSD or R <sup>2</sup> |
|------------|------------------------|
| -----      |                        |
| NO Q-FLAGS |                        |
| -----      |                        |

ICV CAL: NT1003222317.D 23-MAR-2023 03:15

| Compound                  | %D    |
|---------------------------|-------|
| -----                     |       |
| Hexachloroethane          | -21.0 |
| 2-Nitrophenol             | 28.5  |
| Hexachlorocyclopentadiene | -73.0 |
| Benzidine                 | -41.1 |
| 2,3,4,6-Tetrachlorophenol | 27.5  |
| -----                     |       |



CONTINUING CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022856.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/02/23

Lab Sample ID: SLB0374-CCV1

Injection Time: 10:41

Sequence Name: Calibration Check

| COMPOUND                     | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|------------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|---------|
|                              |      | STD           | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| Phenol                       | A    | 5.0000        | 5.6  | 1.8373500             | 2.0724900 |     | 12.8         | +/-50   |
| bis(2-chloroethyl) ether     | A    | 5.0000        | 5.3  | 1.5312550             | 1.3207170 |     | 5.8          | +/-50   |
| 2-Chlorophenol               | A    | 5.0000        | 5.6  | 1.3533690             | 1.5049840 |     | 11.2         | +/-50   |
| 1,3-Dichlorobenzene          | A    | 5.0000        | 5.0  | 1.4914740             | 1.4868110 |     | -0.3         | +/-50   |
| 1,4-Dichlorobenzene          | A    | 5.0000        | 4.9  | 1.4740600             | 1.4461440 |     | -1.9         | +/-50   |
| 1,2-Dichlorobenzene          | A    | 5.0000        | 5.0  | 1.4134490             | 1.4099940 |     | -0.2         | +/-50   |
| Benzyl Alcohol               | A    | 5.0000        | 5.3  | 0.6439892             | 0.8637229 |     | 6.1          | +/-50   |
| 2,2'-Oxybis(1-chloropropane) | A    | 5.0000        | 5.2  | 0.3811859             | 0.3980957 |     | 4.4          | +/-50   |
| 2-Methylphenol               | A    | 5.0000        | 5.9  | 1.1607310             | 1.3632370 |     | 17.4         | +/-50   |
| Hexachloroethane             | A    | 5.0000        | 4.9  | 0.5535732             | 0.5439581 |     | -1.7         | +/-50   |
| N-Nitroso-di-n-Propylamine   | A    | 5.0000        | 6.2  | 0.8837751             | 1.0949070 |     | 23.9         | +/-50   |
| 4-Methylphenol               | A    | 5.0000        | 5.2  | 1.1353050             | 1.3872260 |     | 4.8          | +/-50   |
| Nitrobenzene                 | A    | 5.0000        | 5.9  | 0.3760061             | 0.4452789 |     | 18.4         | +/-50   |
| Isophorone                   | A    | 5.0000        | 5.5  | 0.4996273             | 0.6388989 |     | 10.8         | +/-50   |
| 2-Nitrophenol                | A    | 5.0000        | 5.3  | 0.1467597             | 0.2080718 |     | 6.2          | +/-50   |
| 2,4-Dimethylphenol           | A    | 10.000        | 10.8 | 0.3427845             | 0.3694858 |     | 7.8          | +/-50   |
| Bis(2-Chloroethoxy)methane   | A    | 5.0000        | 5.4  | 0.3780235             | 0.4056194 |     | 7.3          | +/-50   |
| 2,4-Dichlorophenol           | A    | 10.000        | 9.8  | 0.2946235             | 0.3247464 |     | -2.0         | +/-50   |
| 1,2,4-Trichlorobenzene       | A    | 5.0000        | 4.7  | 0.3874001             | 0.3609132 |     | -6.8         | +/-50   |
| Naphthalene                  | A    | 5.0000        | 5.0  | 1.0669580             | 1.0749790 |     | 0.8          | +/-50   |
| Benzoic acid                 | A    | 20.000        | 26.1 | 0.1358415             | 0.1771627 |     | 30.4         | +/-50   |
| 4-Chloroaniline              | A    | 10.000        | 10.7 | 0.4563565             | 0.4876918 |     | 6.9          | +/-50   |
| Hexachlorobutadiene          | A    | 5.0000        | 4.4  | 0.2363916             | 0.2102666 |     | -11.1        | +/-50   |
| 4-Chloro-3-Methylphenol      | A    | 10.000        | 11.2 | 0.3085482             | 0.3458487 |     | 12.1         | +/-50   |
| 2-Methylnaphthalene          | A    | 5.0000        | 5.1  | 0.7901196             | 0.8045046 |     | 1.8          | +/-50   |
| Hexachlorocyclopentadiene    | A    | 10.000        | 3.3  | 0.3443795             | 0.1375784 |     | -67.3        | +/-50 * |
| 2,4,6-Trichlorophenol        | A    | 10.000        | 10.6 | 0.3907367             | 0.4135882 |     | 5.8          | +/-50   |
| 2,4,5-Trichlorophenol        | A    | 10.000        | 11.1 | 0.4224702             | 0.4696229 |     | 11.2         | +/-50   |
| 2-Chloronaphthalene          | A    | 5.0000        | 5.1  | 1.2480280             | 1.2619350 |     | 1.1          | +/-50   |
| 2-Nitroaniline               | A    | 10.000        | 12.9 | 0.3254949             | 0.4213065 |     | 29.4         | +/-50   |
| Acenaphthylene               | A    | 5.0000        | 5.3  | 1.8312950             | 1.9485640 |     | 6.4          | +/-50   |
| Dimethylphthalate            | A    | 5.0000        | 5.3  | 1.2581570             | 1.3372810 |     | 6.3          | +/-50   |
| 2,6-Dinitrotoluene           | A    | 10.000        | 10.7 | 0.2948315             | 0.3141847 |     | 6.6          | +/-50   |

\* Values outside of QC limits







**CONTINUING CALIBRATION CHECK**  
**EPA 8270E**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT14</u>                      | Calibration:      | <u>GC00033</u>         |
| Lab File ID:   | <u>NT1423022856.D</u>            | Calibration Date: | <u>02/28/2023</u>      |
| Sequence:      | <u>SLB0374</u>                   | Injection Date:   | <u>03/02/23</u>        |
| Lab Sample ID: | <u>SLB0374-CCV1</u>              | Injection Time:   | <u>10:41</u>           |
| Sequence Name: | <u>Calibration Check</u>         |                   |                        |

| COMPOUND               | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|-------|
|                        |      | STD           | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Phenol-d5              | A    | 7.5000        | 9.00 | 1.5399100             | 1.8488250 |     | 20.1         | +/-50 |
| 2-Chlorophenol-d4      | A    | 7.5000        | 7.89 | 1.3093910             | 1.3774340 |     | 5.2          | +/-50 |
| 1,2-Dichlorobenzene-d4 | A    | 5.0000        | 4.92 | 0.9857584             | 0.9707841 |     | -1.5         | +/-50 |
| Nitrobenzene-d5        | A    | 5.0000        | 5.99 | 0.3912861             | 0.4683999 |     | 19.7         | +/-50 |
| 2-Fluorobiphenyl       | A    | 5.0000        | 5.02 | 1.5568580             | 1.5624360 |     | 0.4          | +/-50 |
| 2,4,6-Tribromophenol   | A    | 7.5000        | 7.45 | 0.1850894             | 0.2204114 |     | -0.6         | +/-50 |
| p-Terphenyl-d14        | A    | 5.0000        | 4.53 | 1.2319340             | 1.1164280 |     | -9.4         | +/-50 |

\* Values outside of QC limits

\* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022856.D

Date: 02-HRR-2023 10:41

Client ID:

Sample Info: SLB0374-CCV7

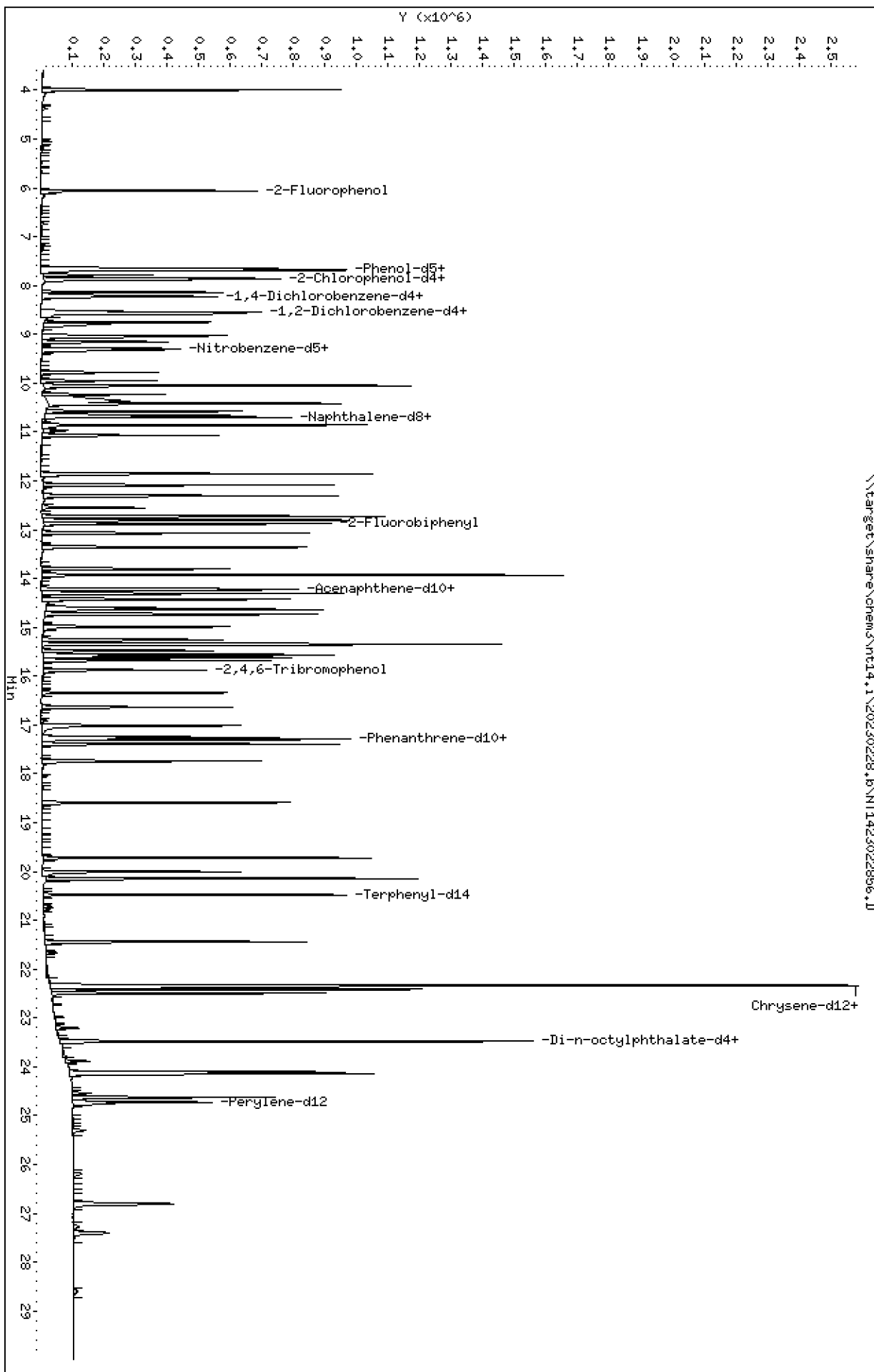
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022856.D



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

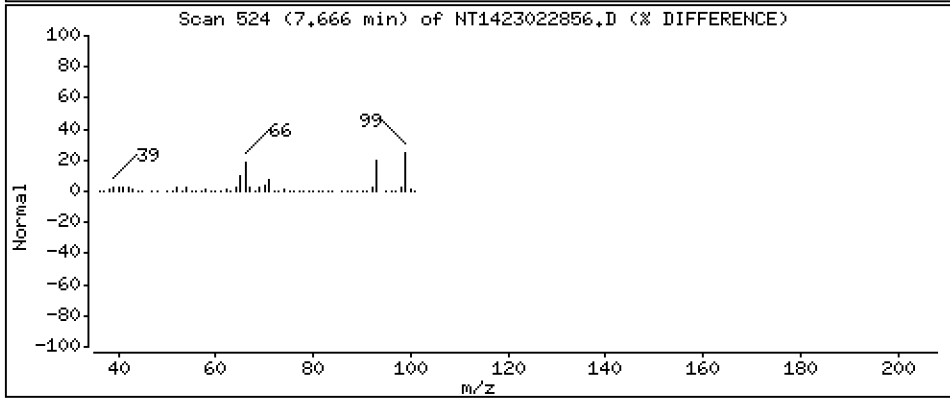
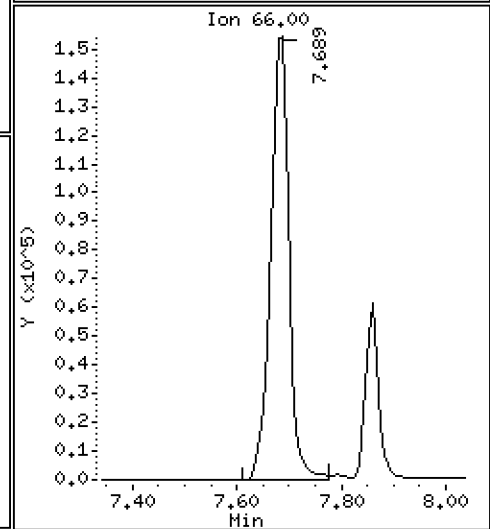
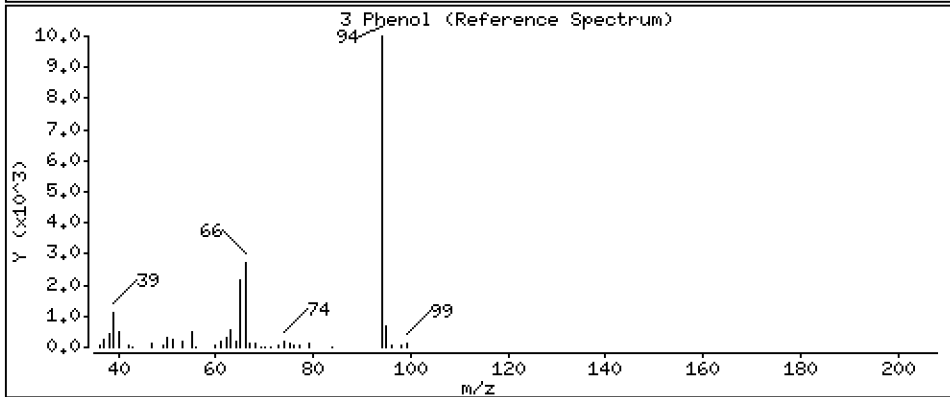
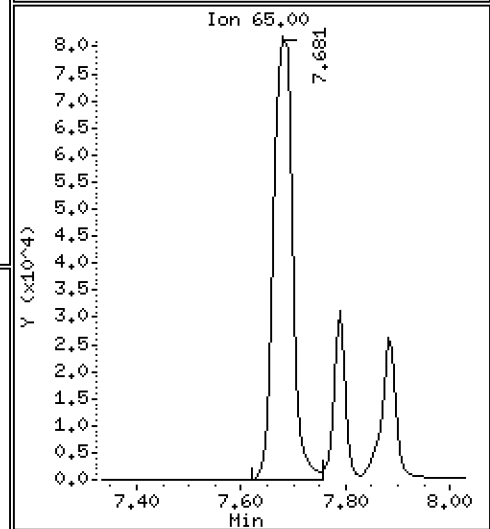
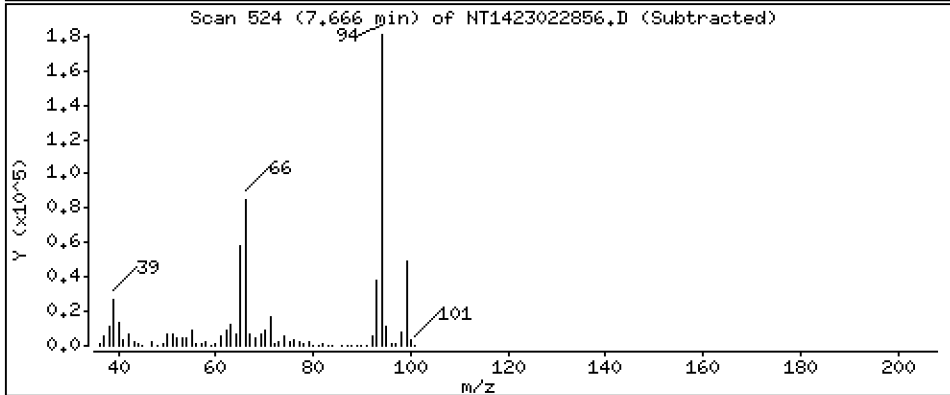
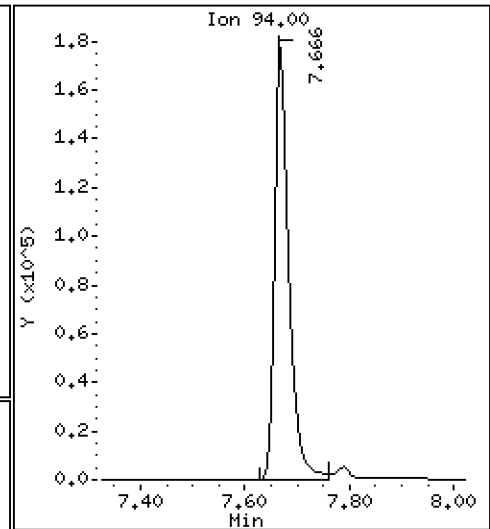
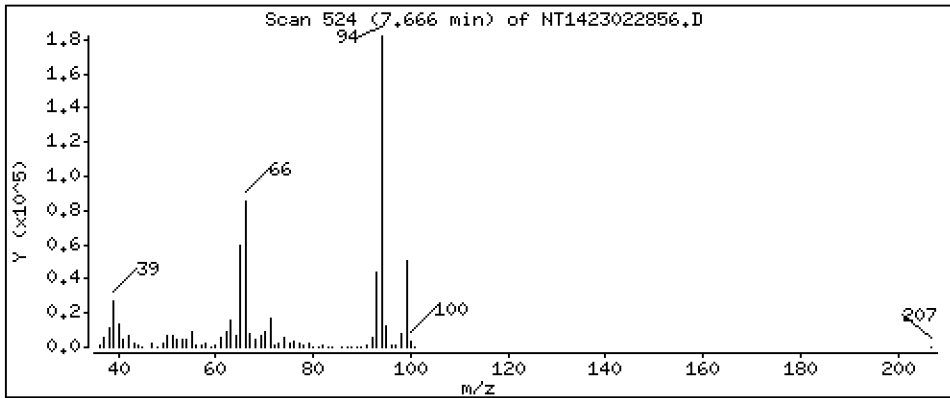
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 5,640 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

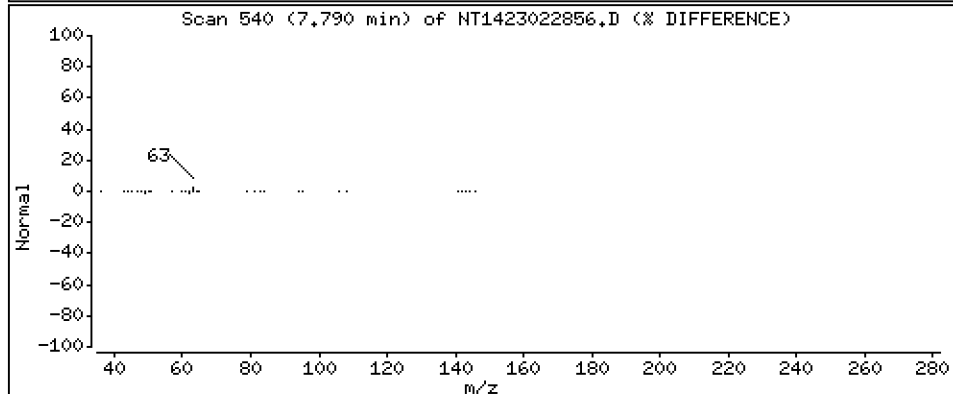
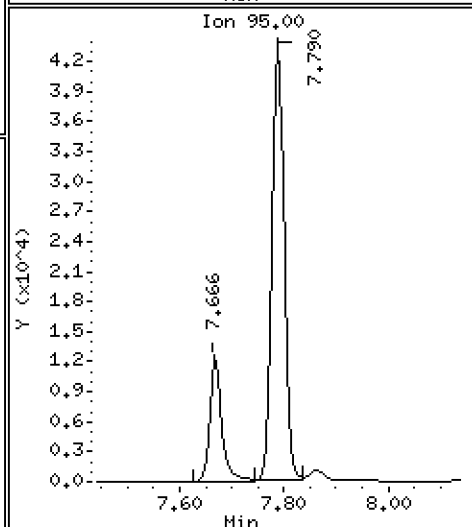
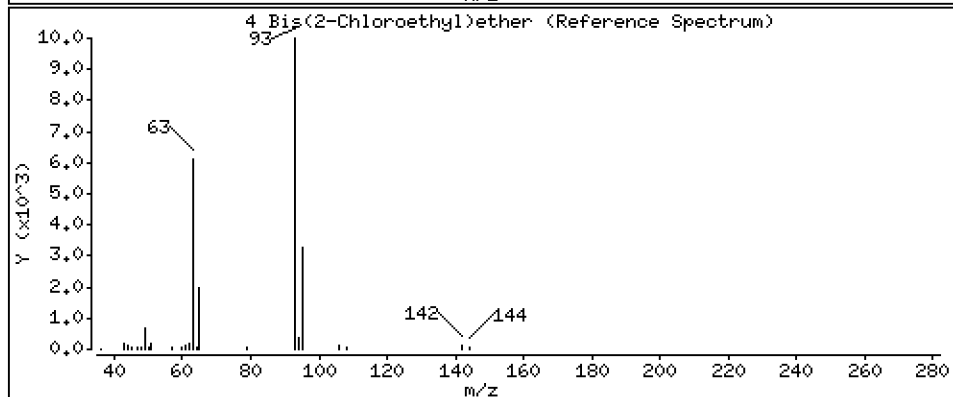
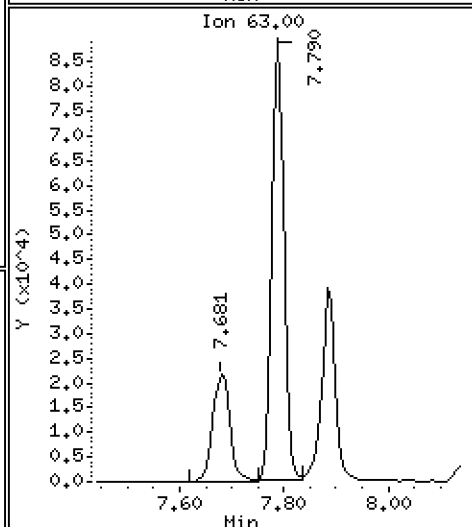
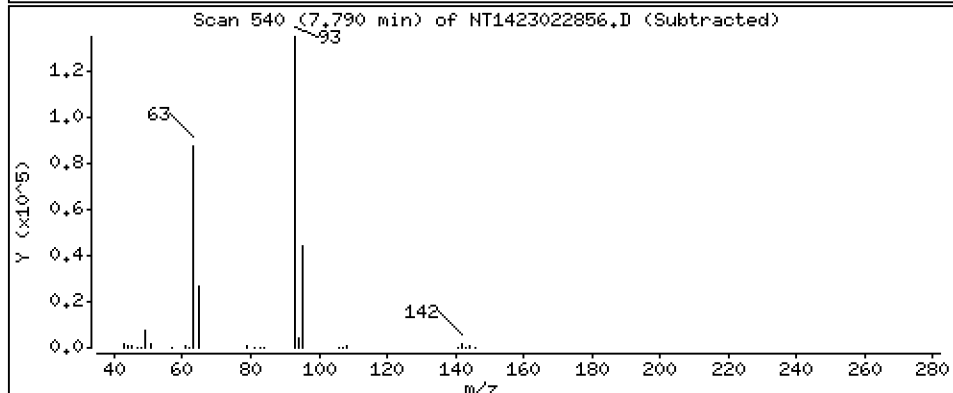
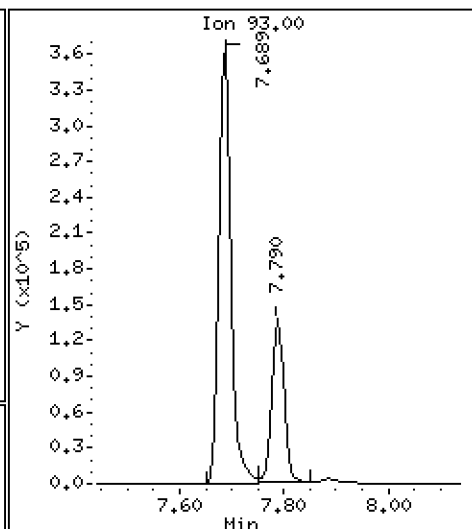
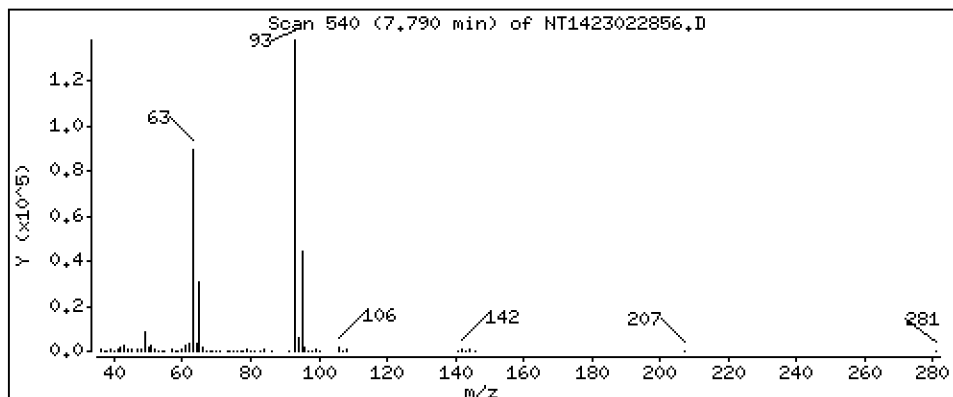
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 5,291 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

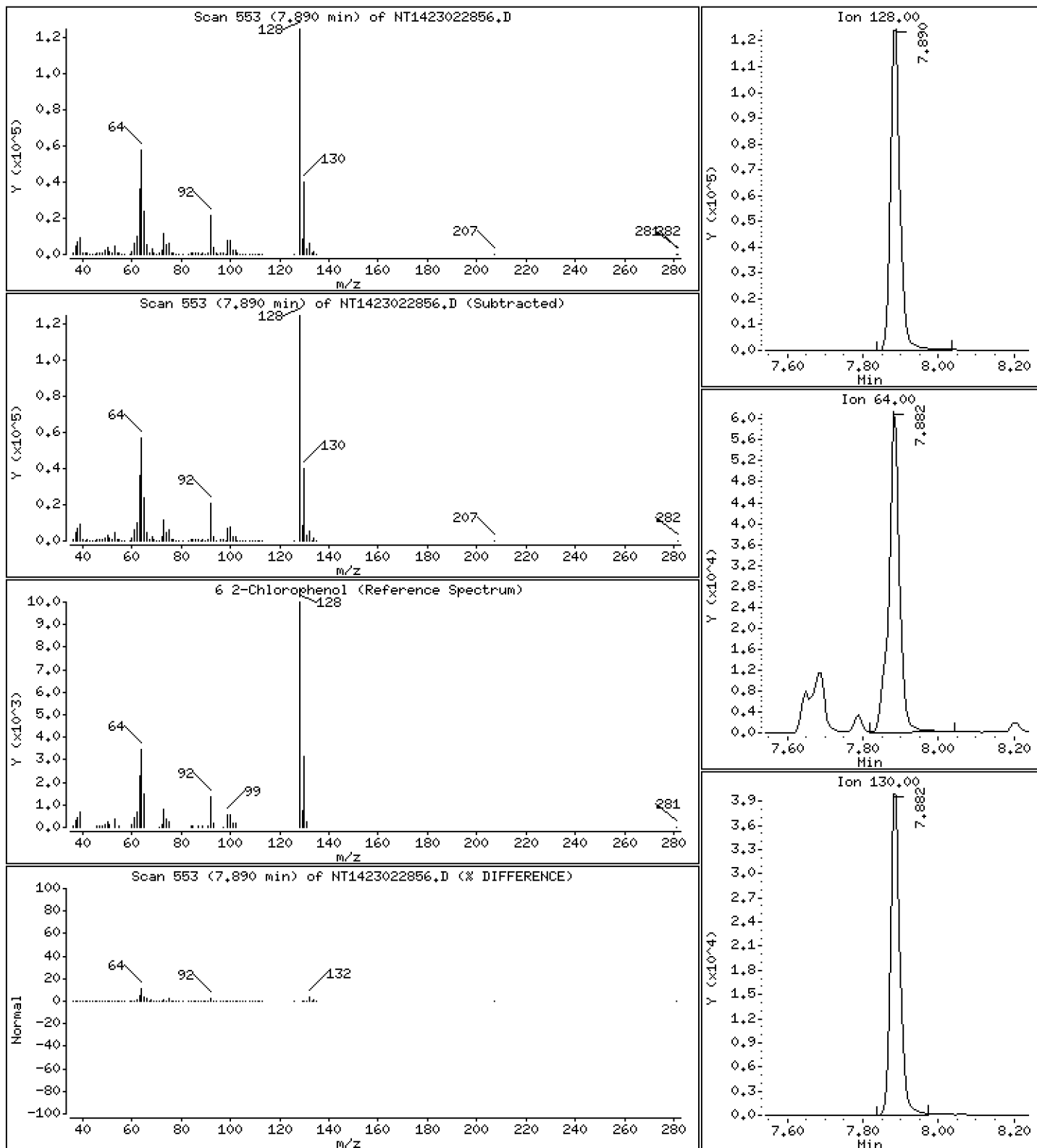
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 5,560 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

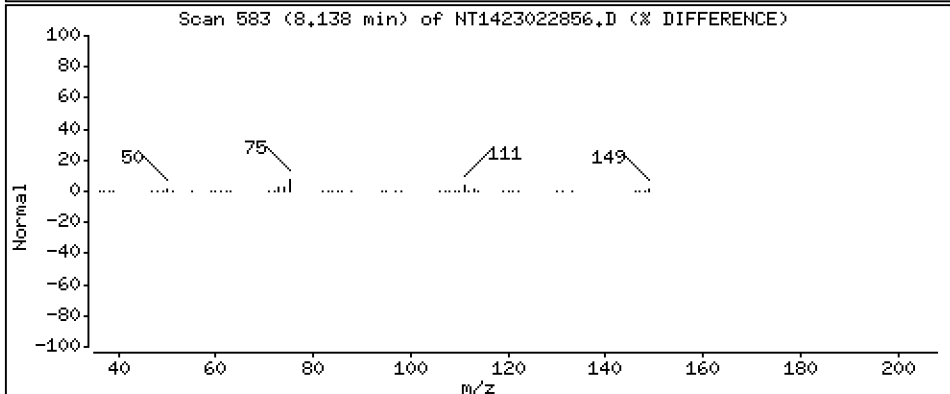
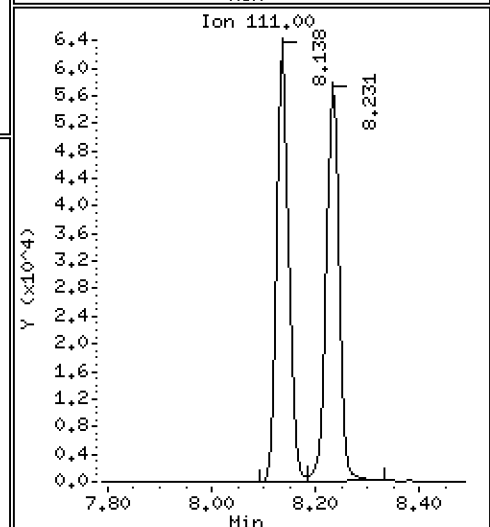
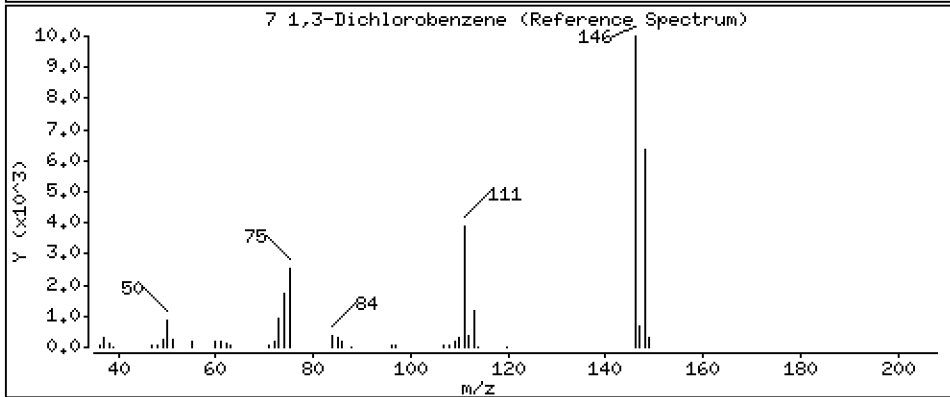
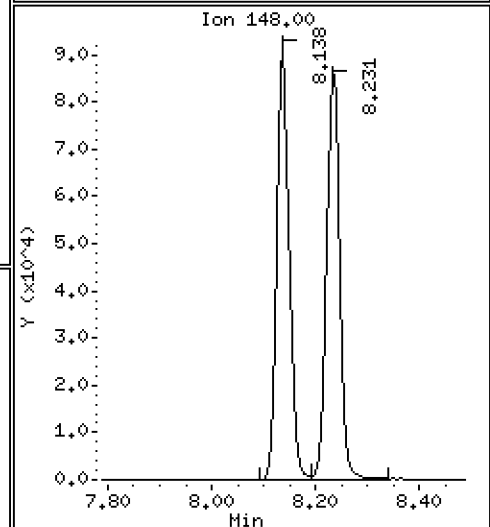
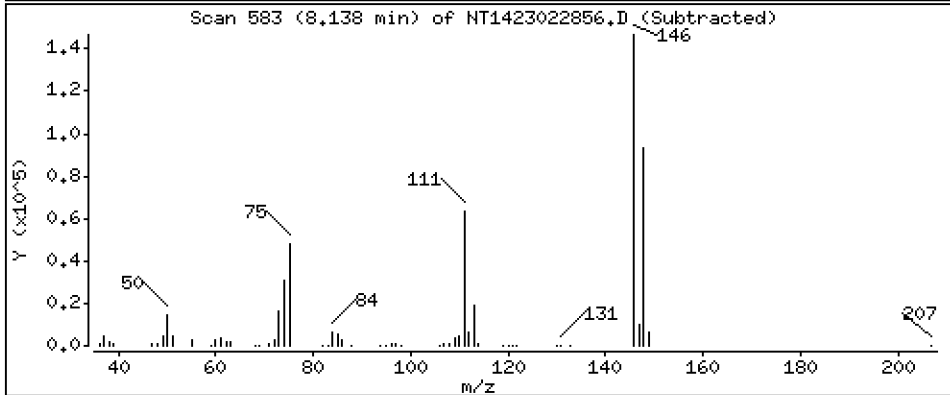
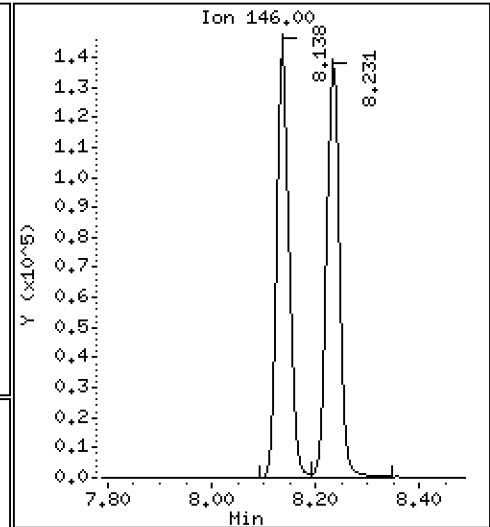
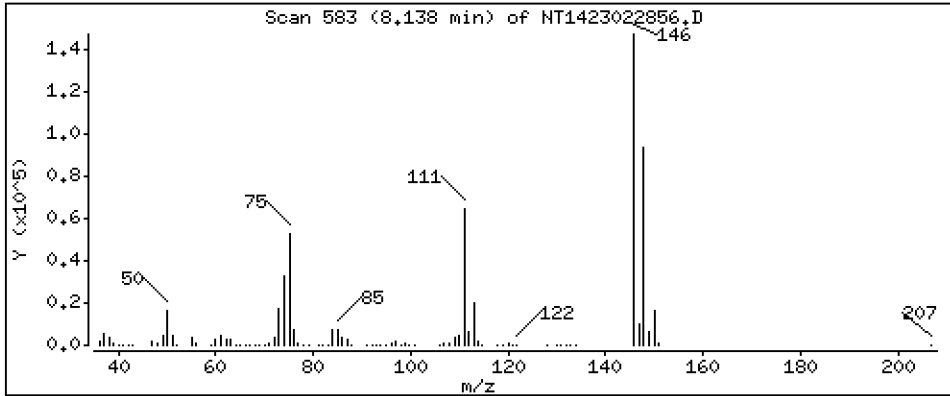
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 4.984 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

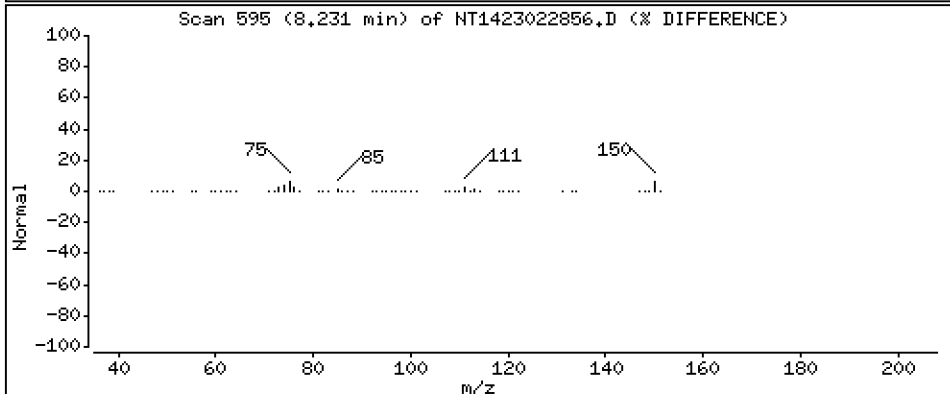
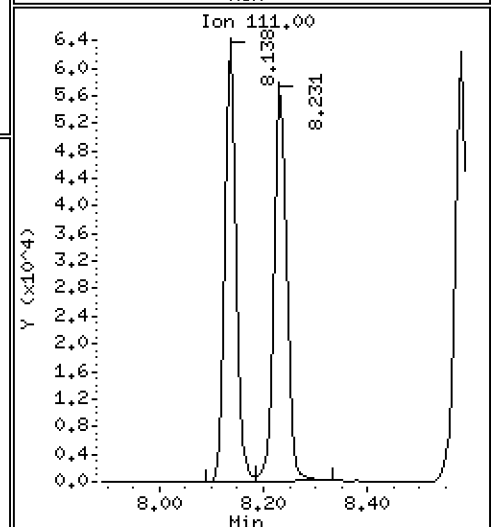
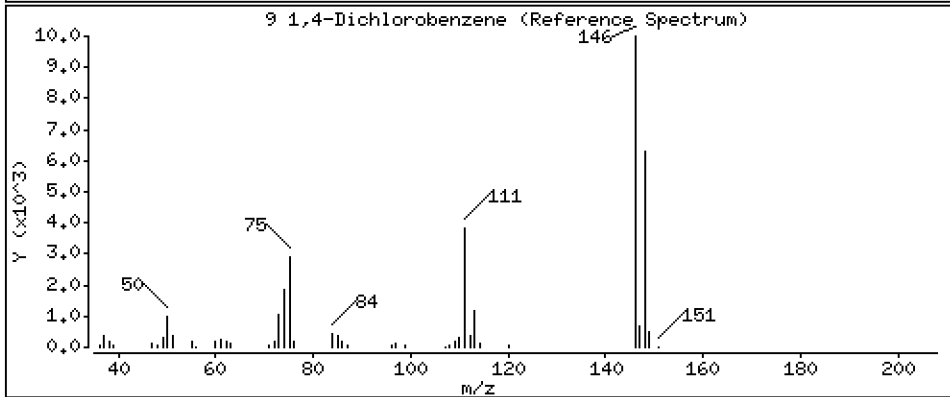
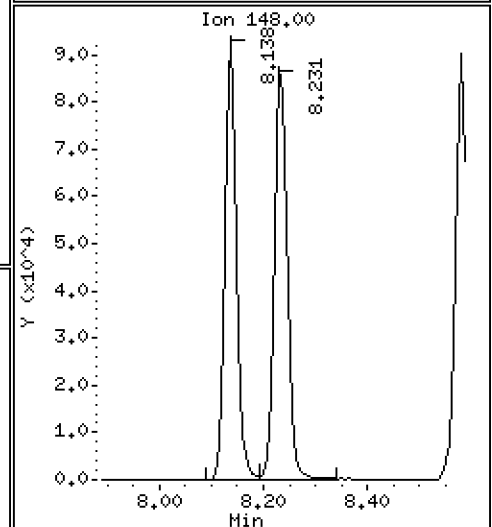
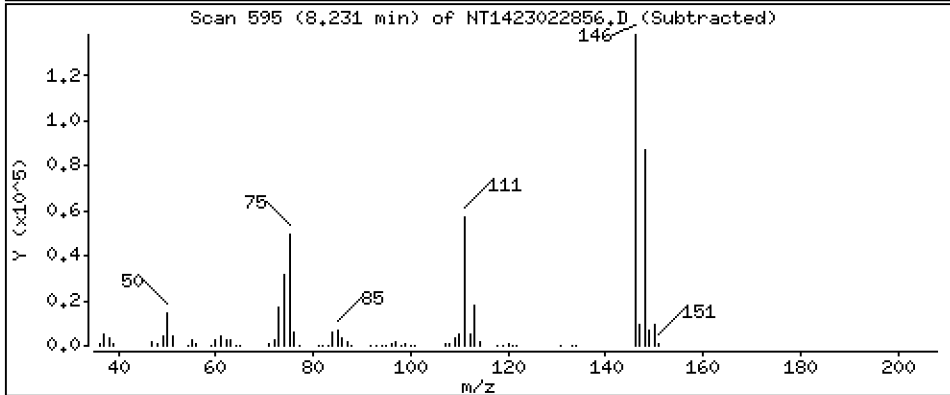
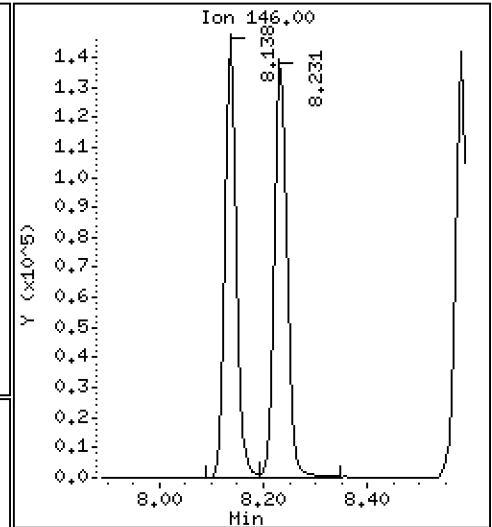
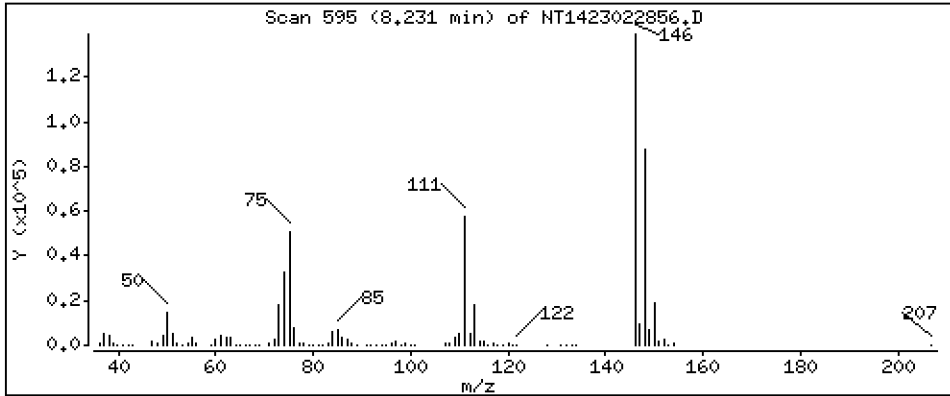
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,905 ug/mL





Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

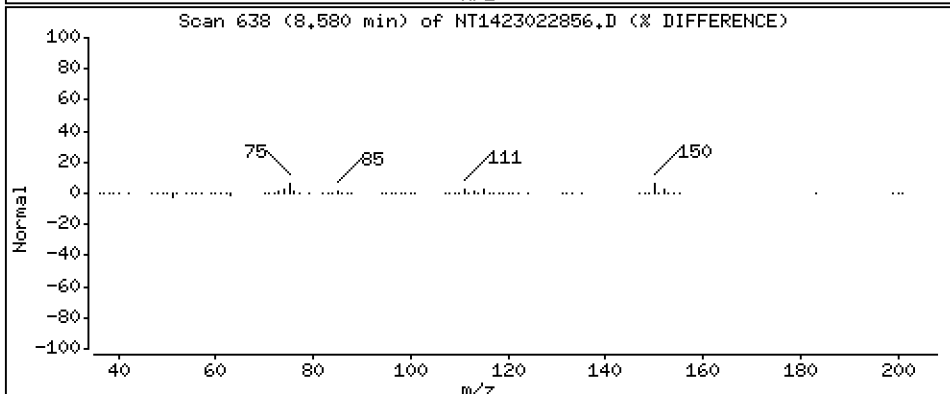
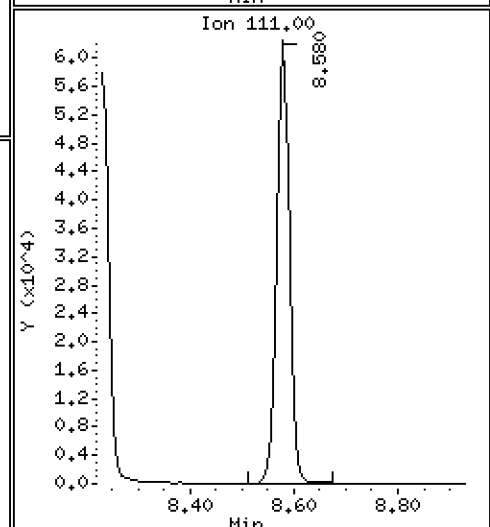
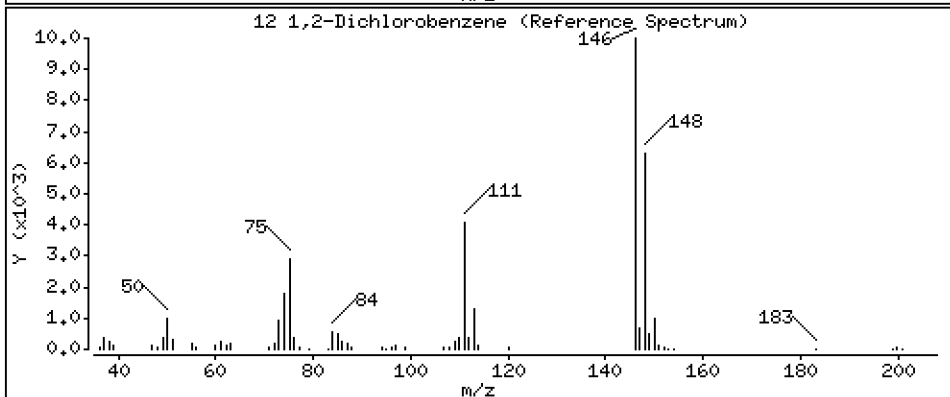
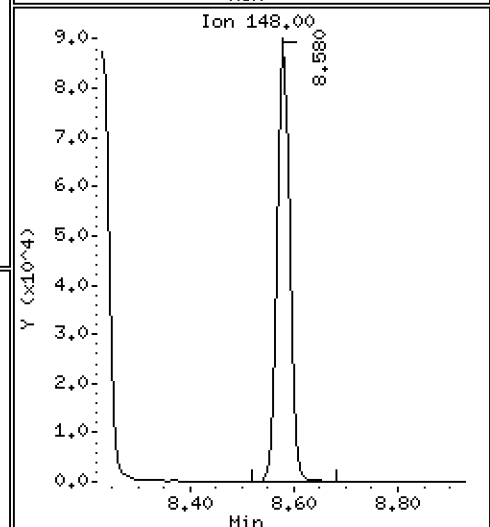
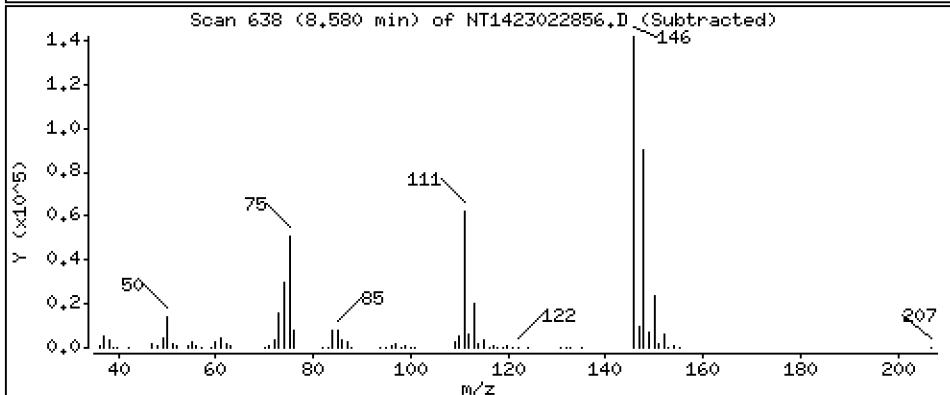
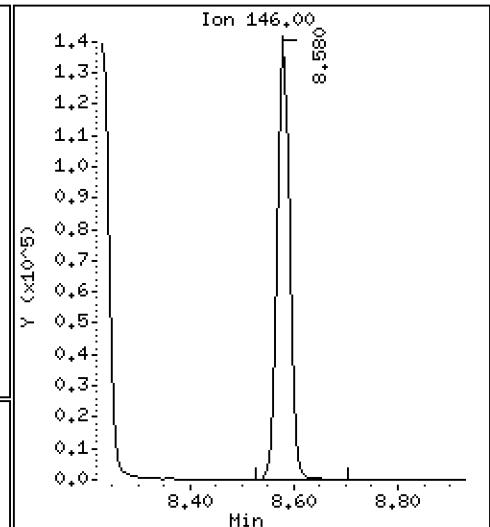
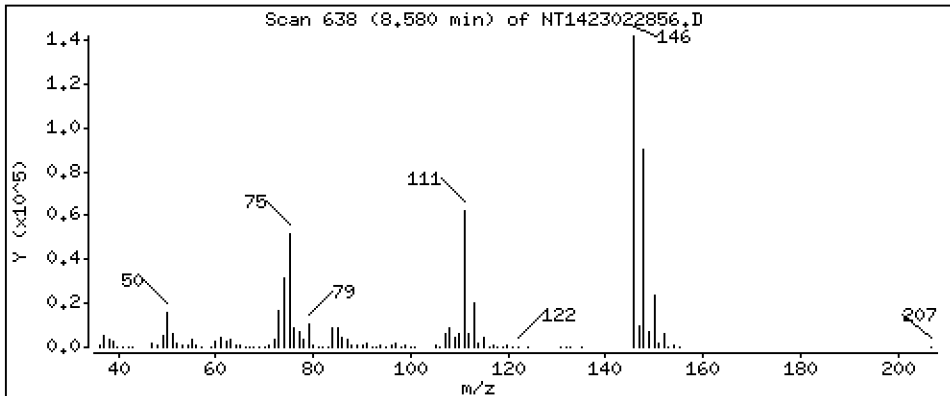
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,988 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

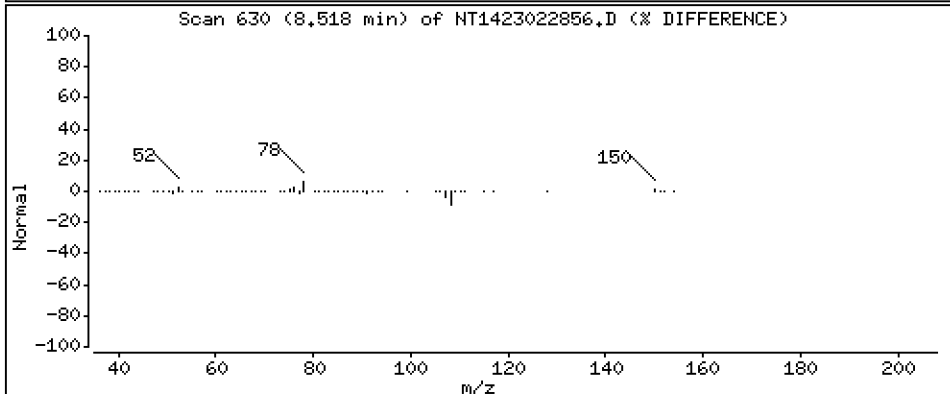
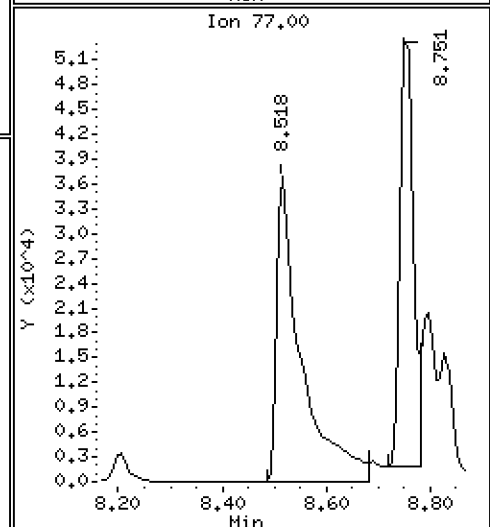
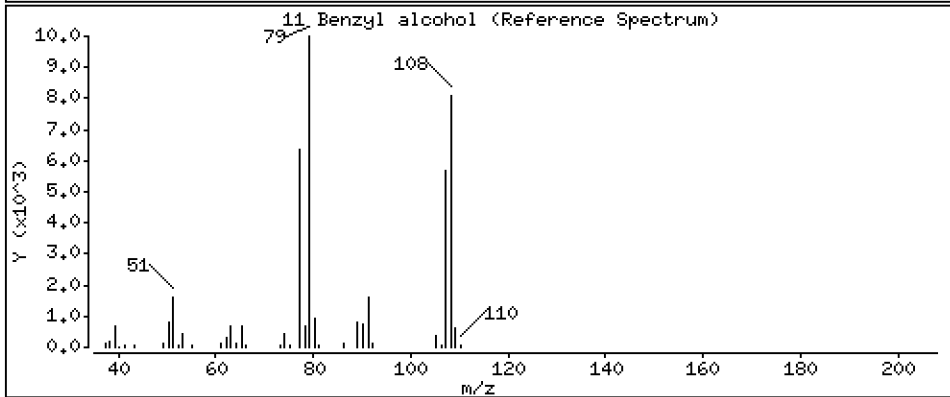
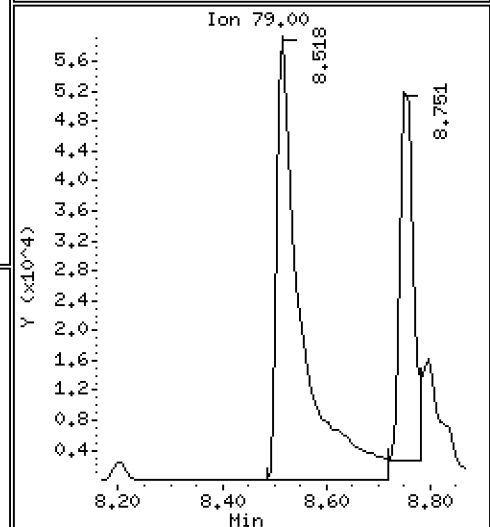
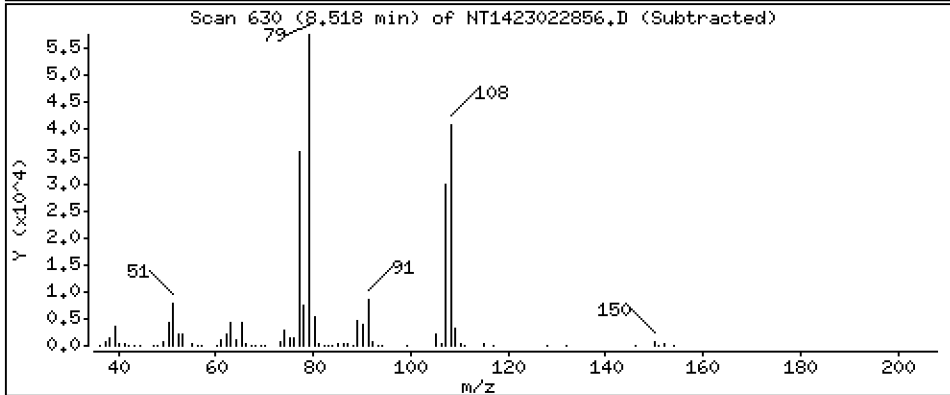
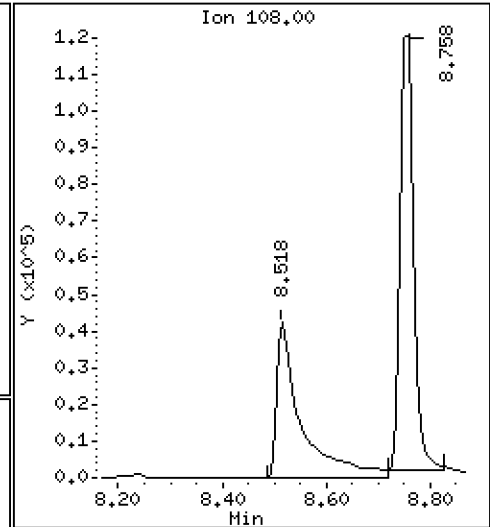
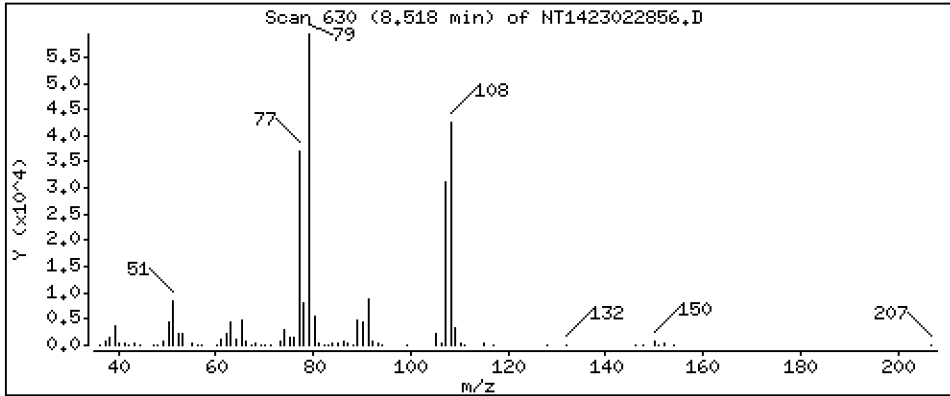
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 5.306 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

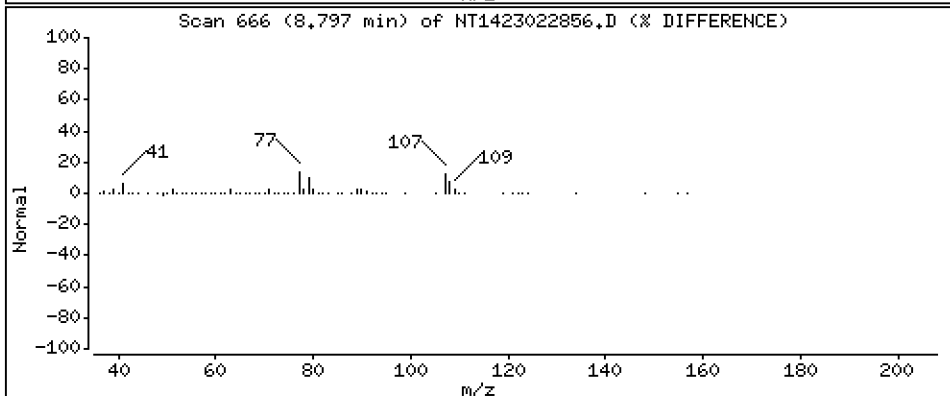
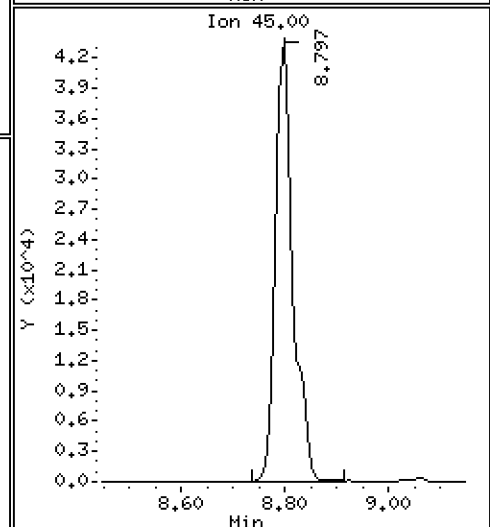
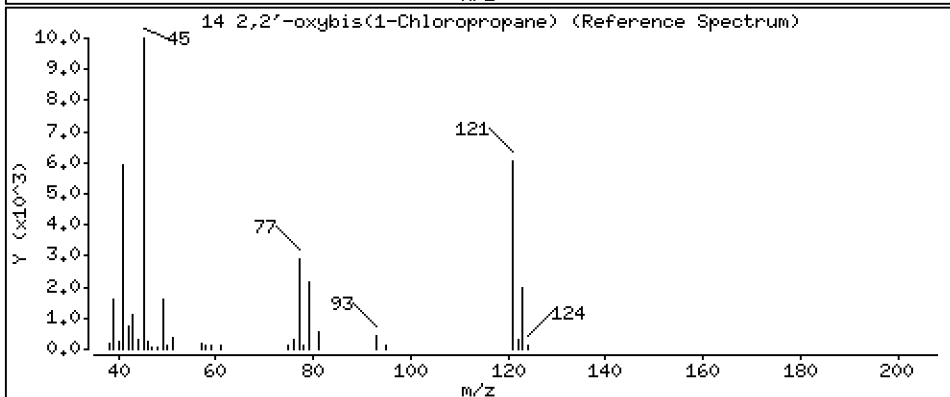
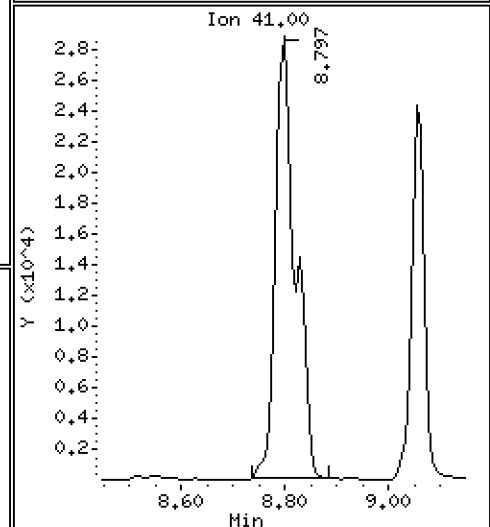
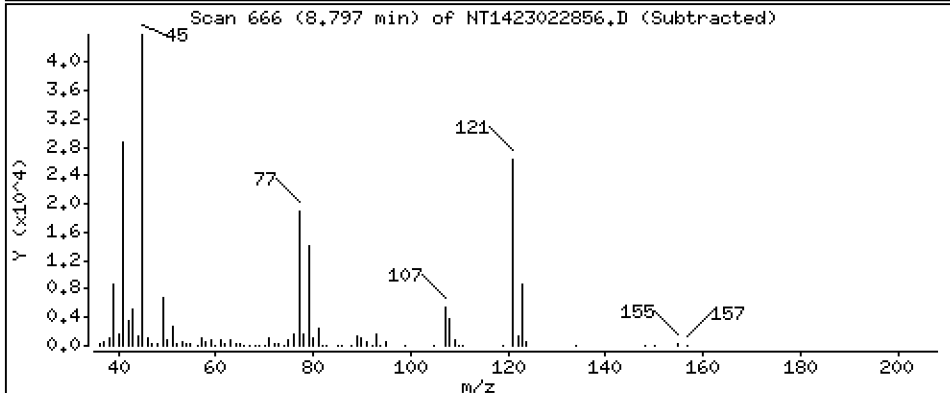
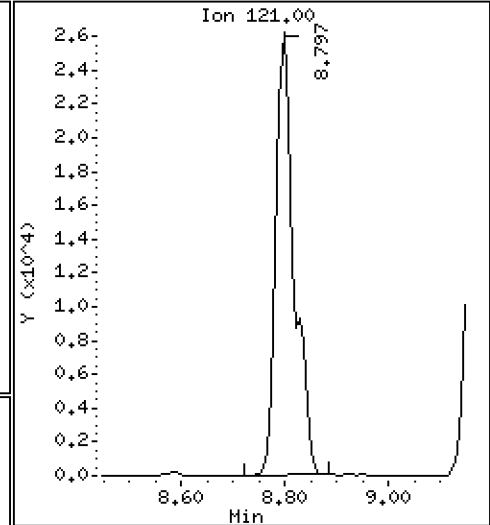
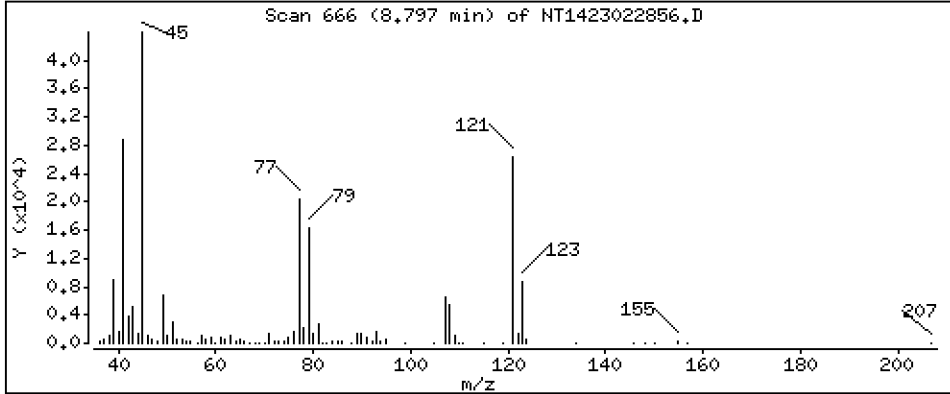
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 5,222 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

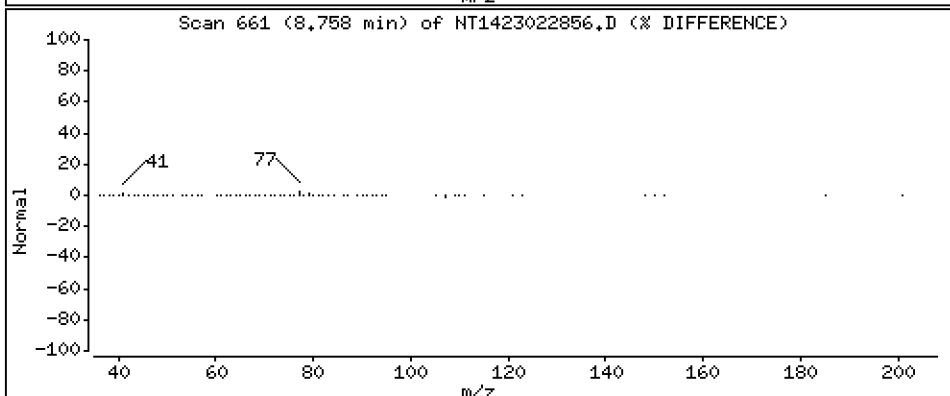
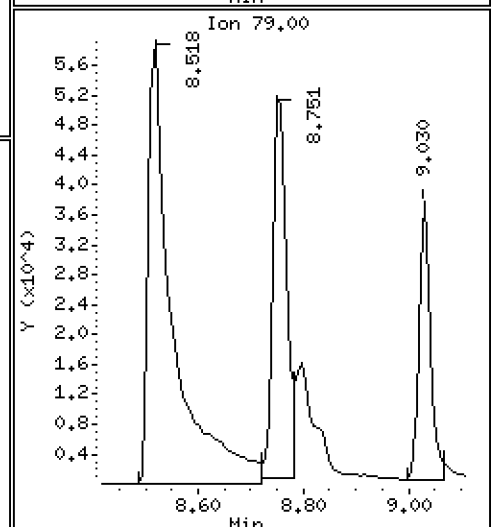
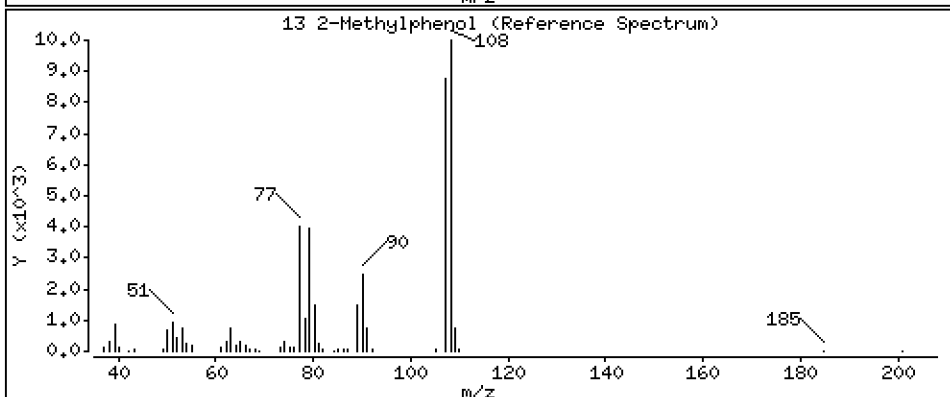
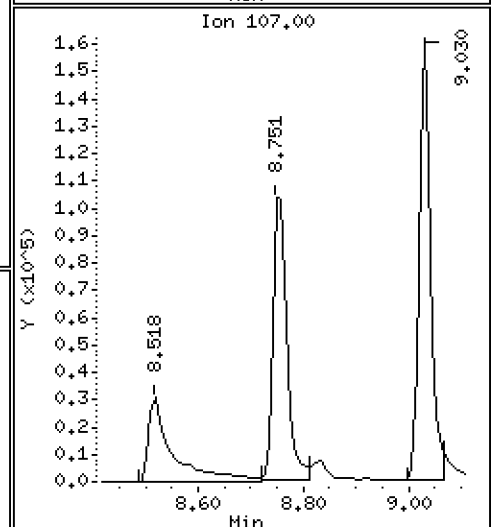
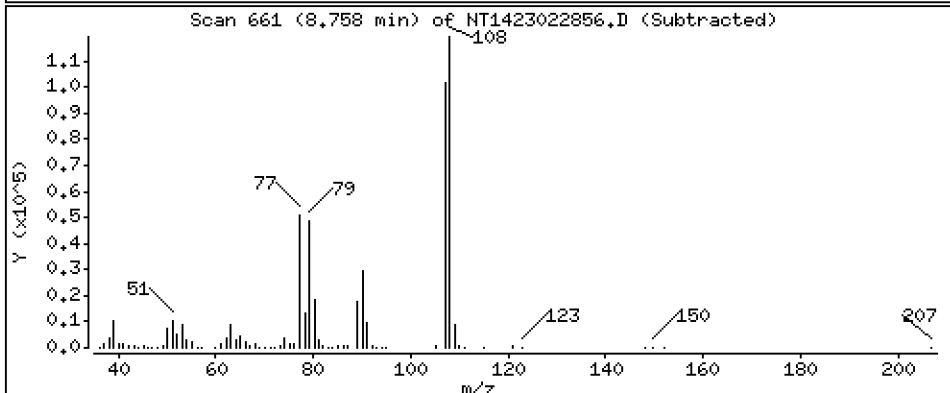
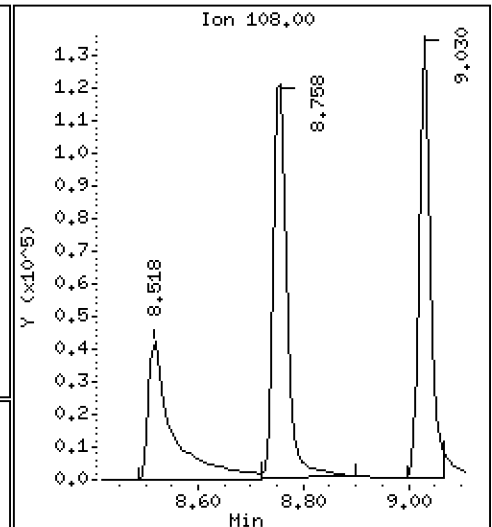
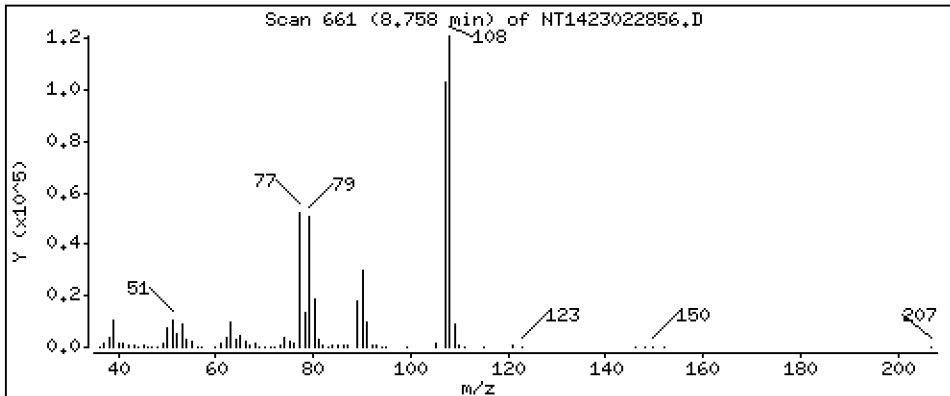
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 5,872 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

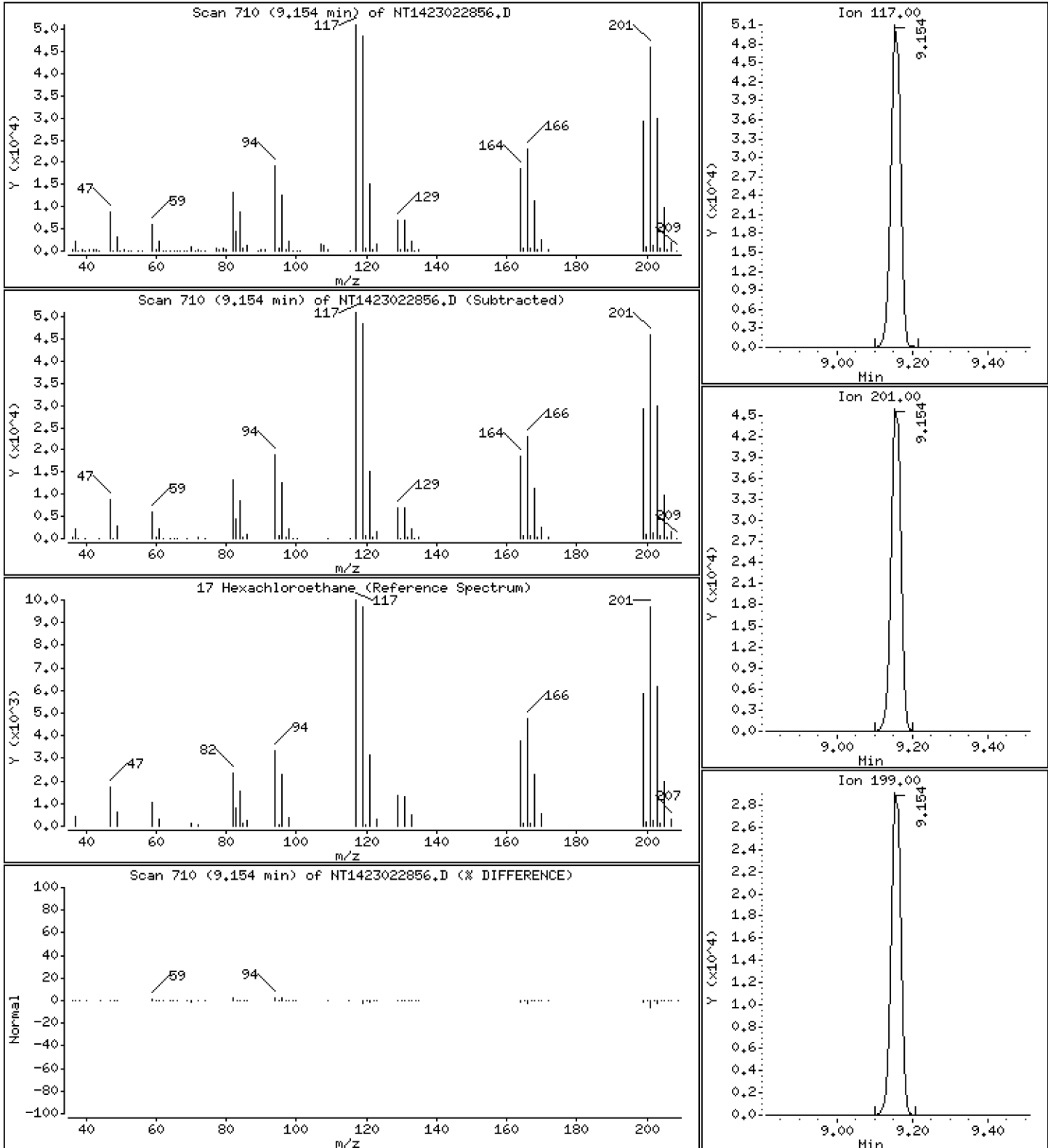
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 4.913 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

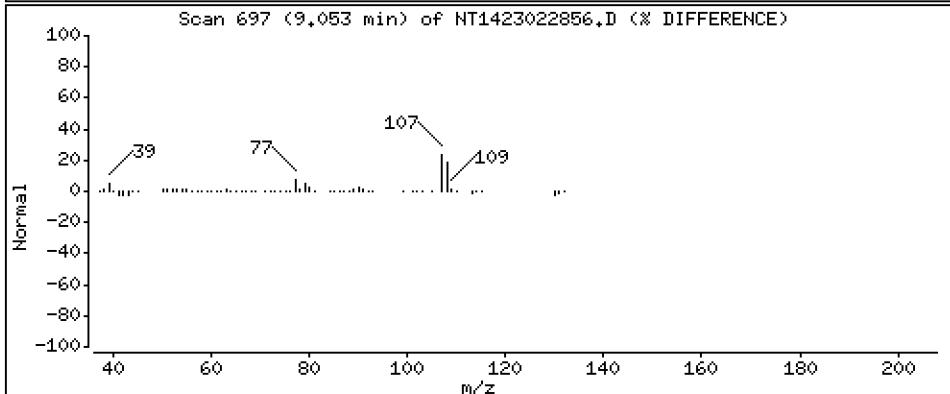
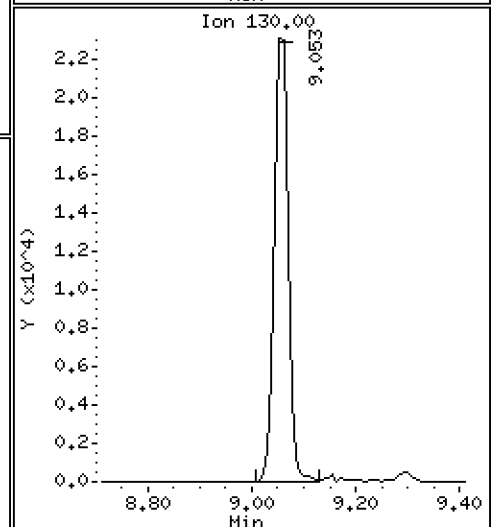
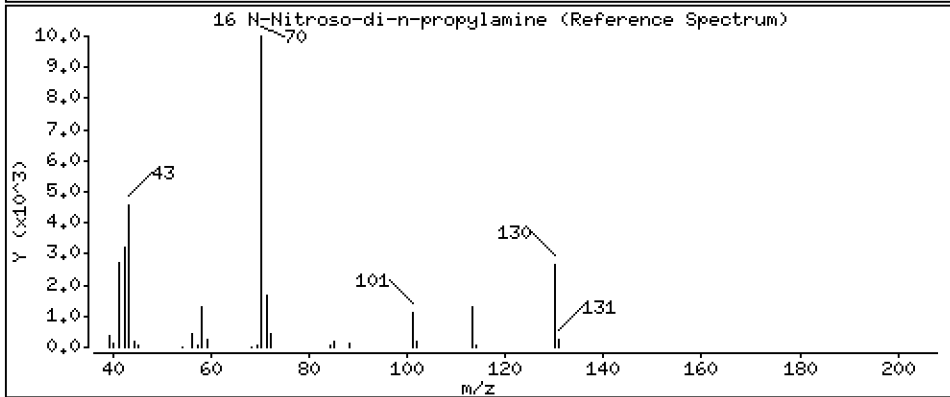
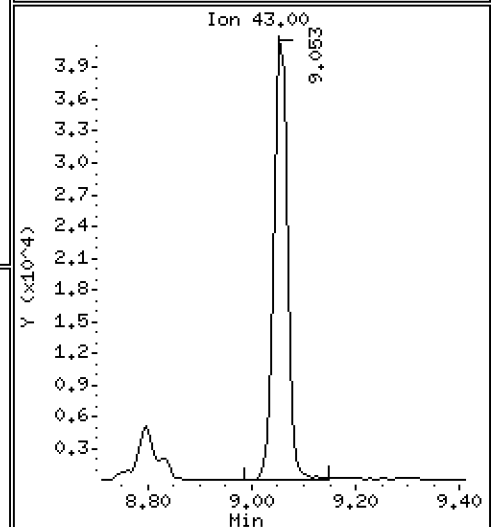
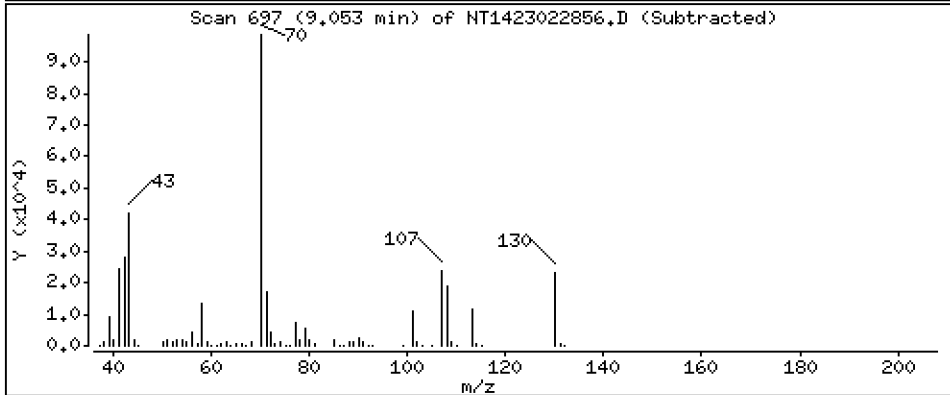
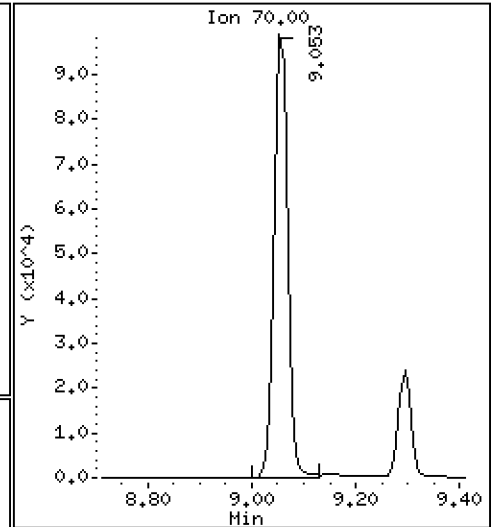
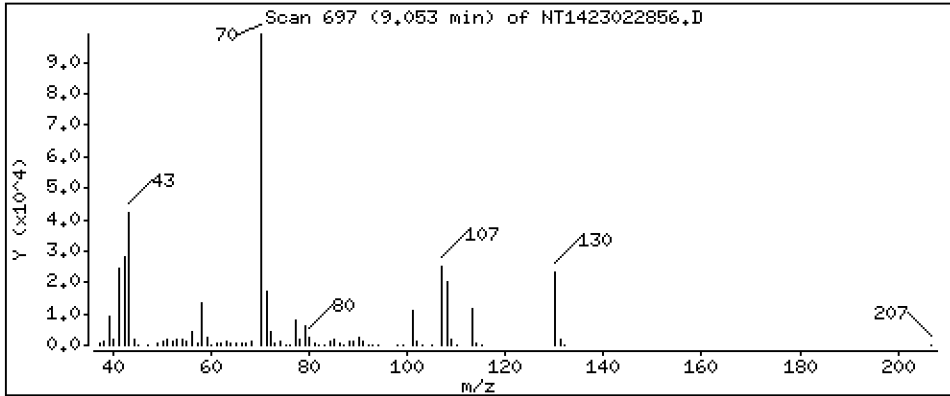
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 6,194 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

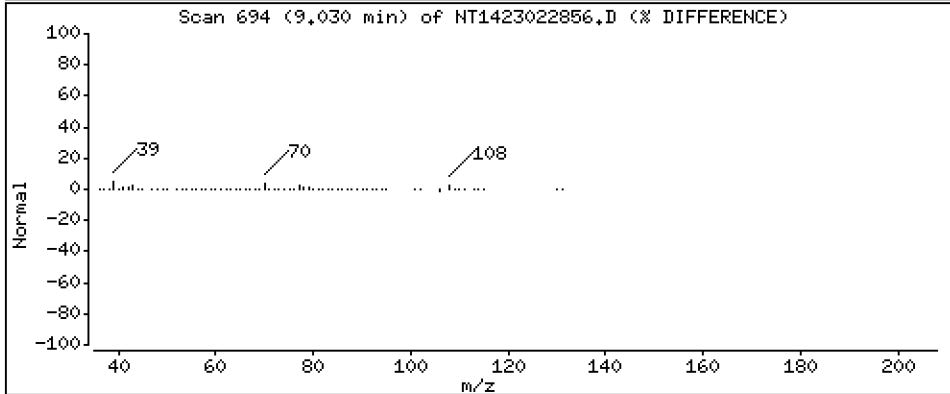
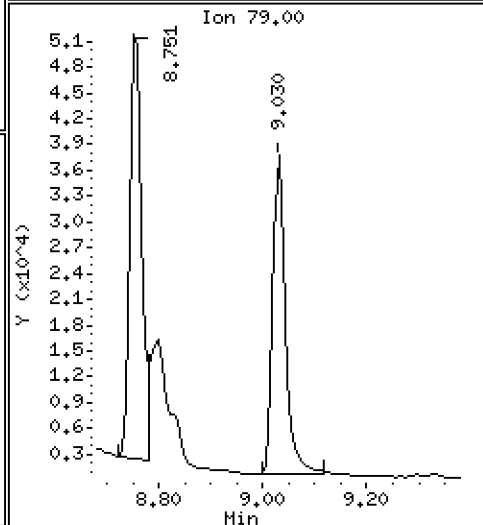
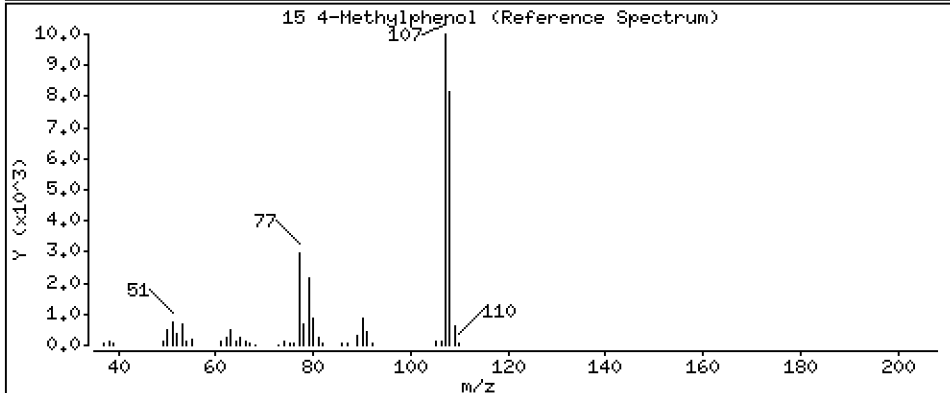
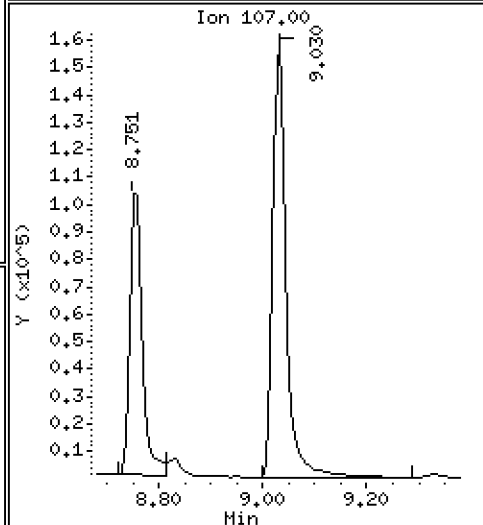
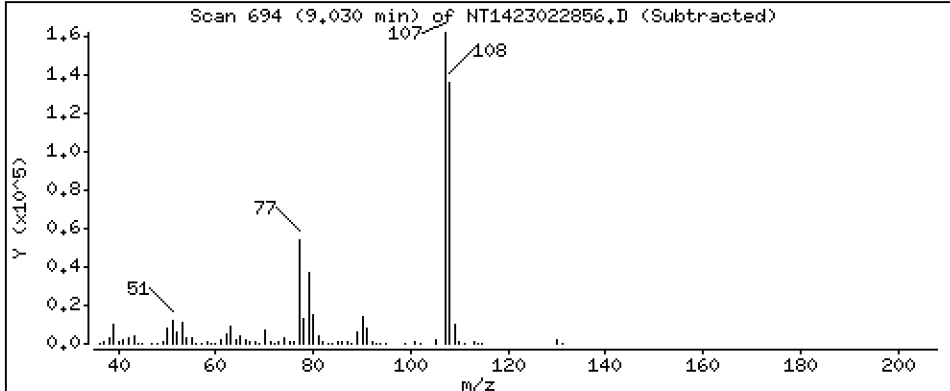
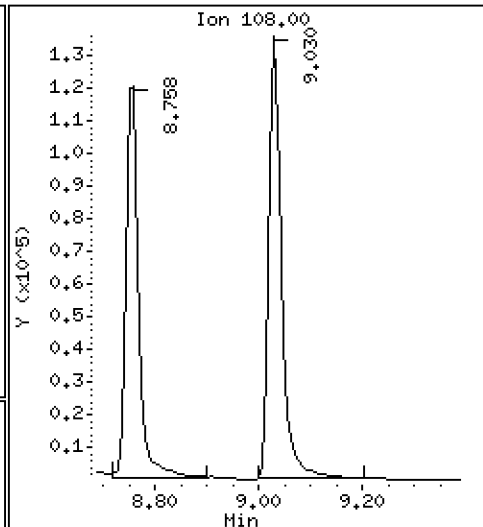
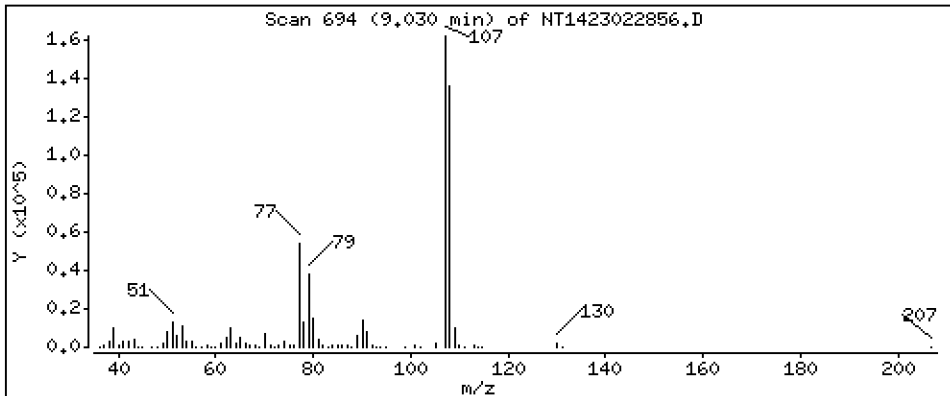
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 5,242 ug/mL



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Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

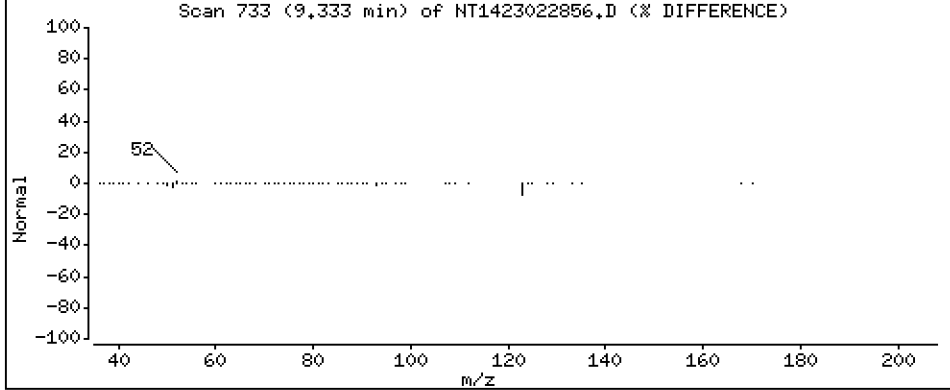
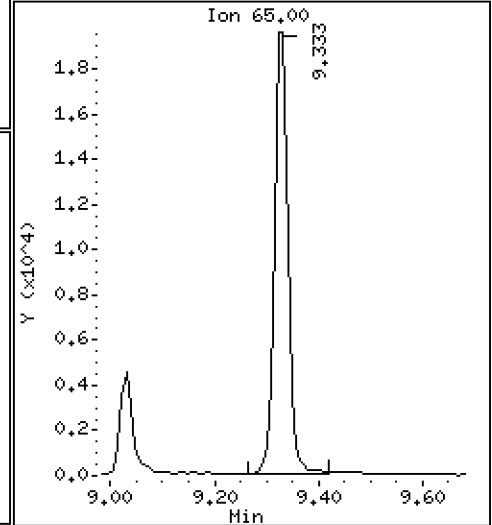
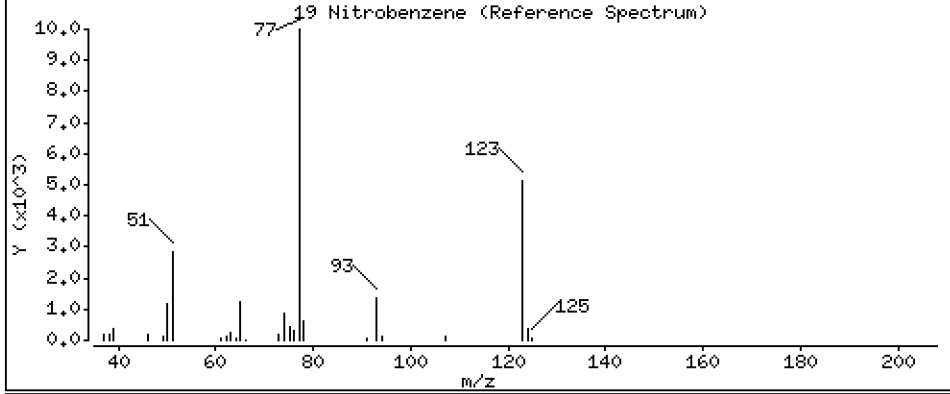
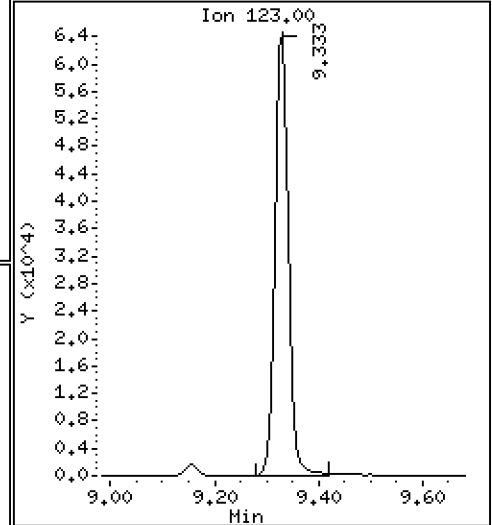
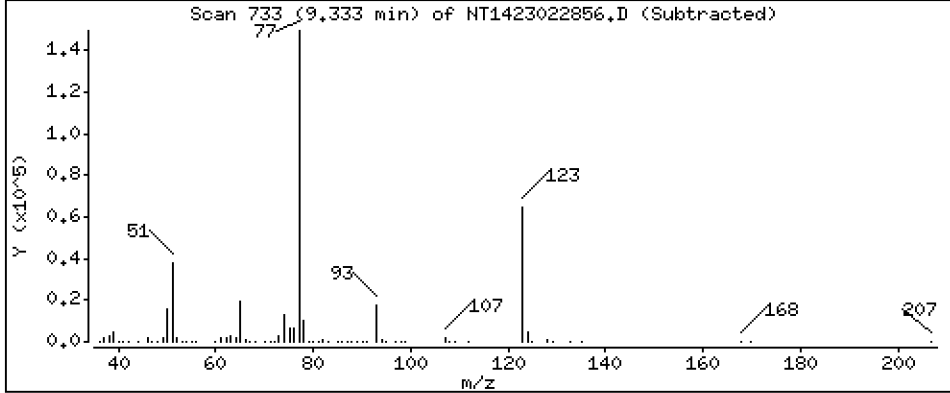
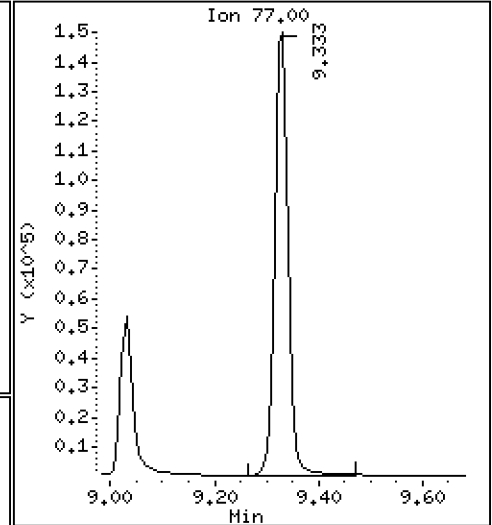
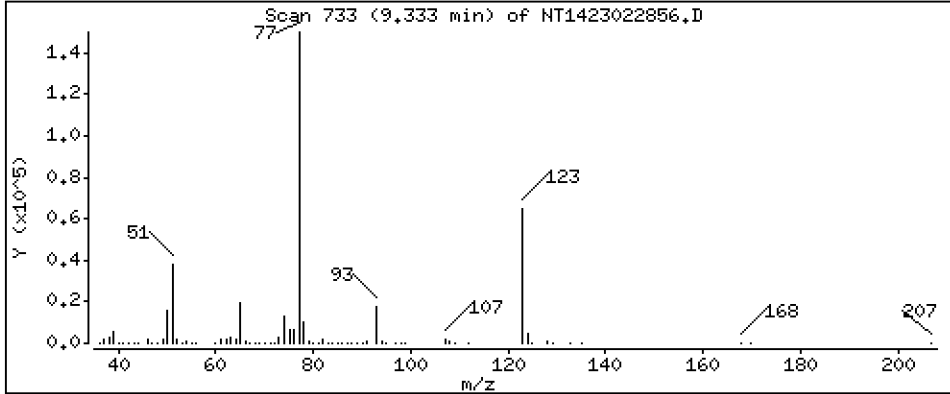
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 5,921 ug/mL

19 Nitrobenzene





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Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

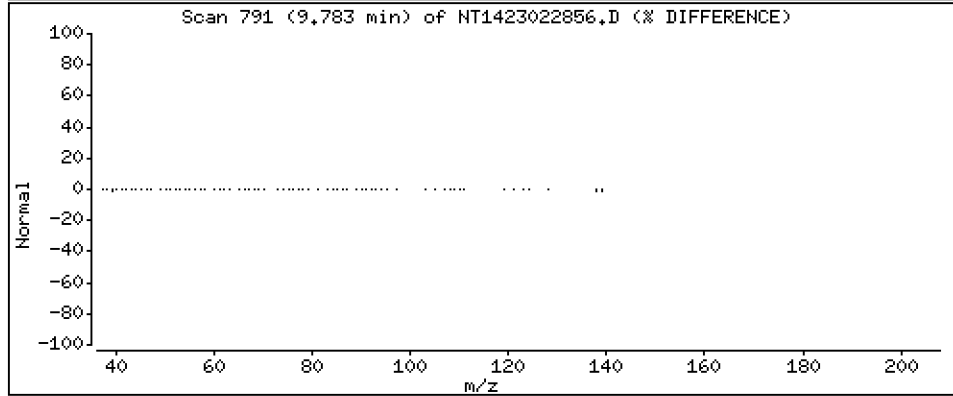
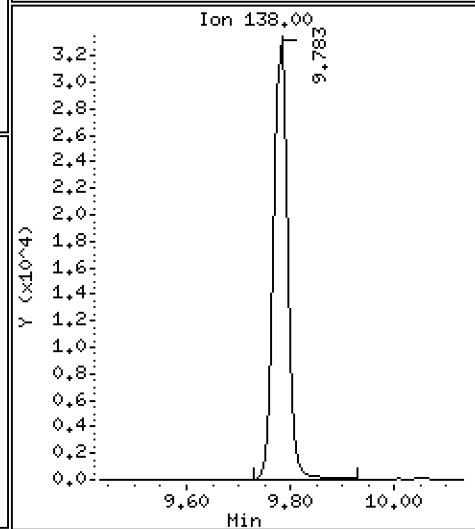
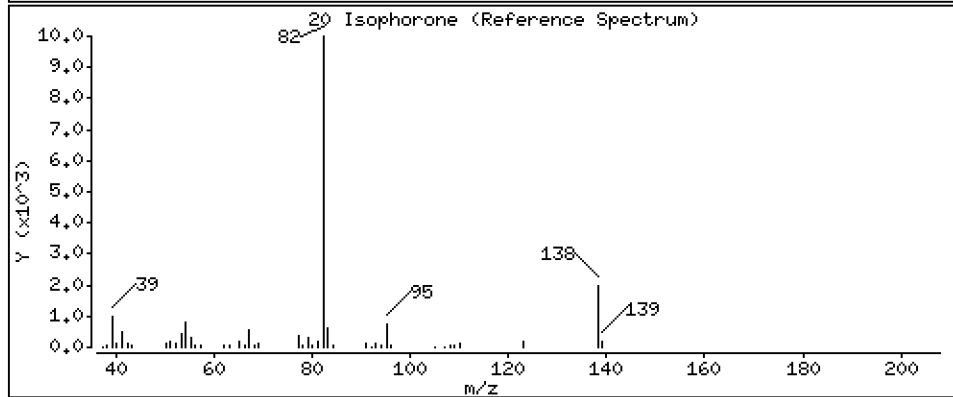
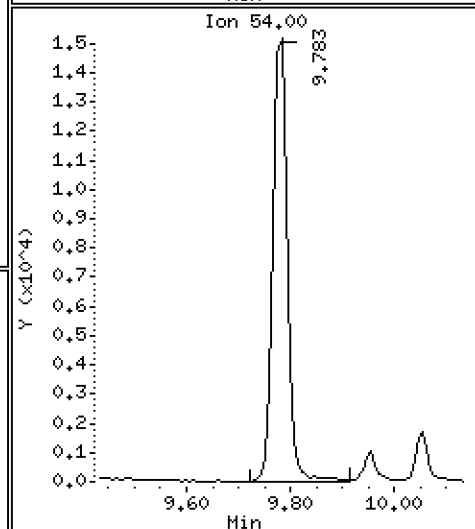
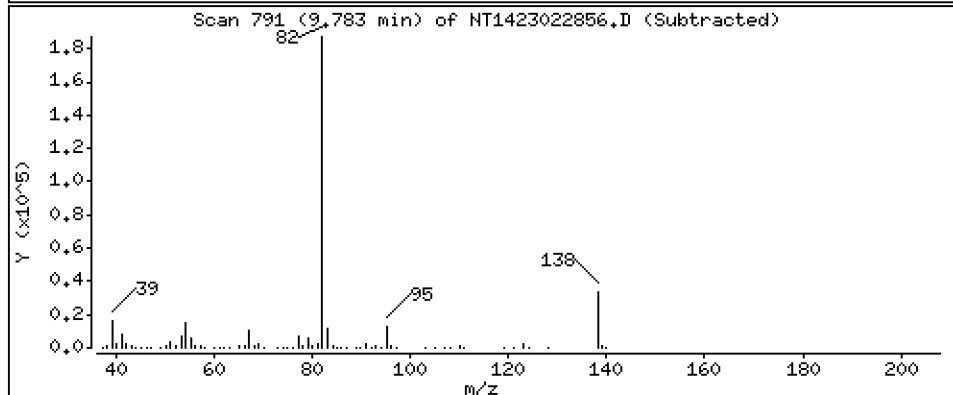
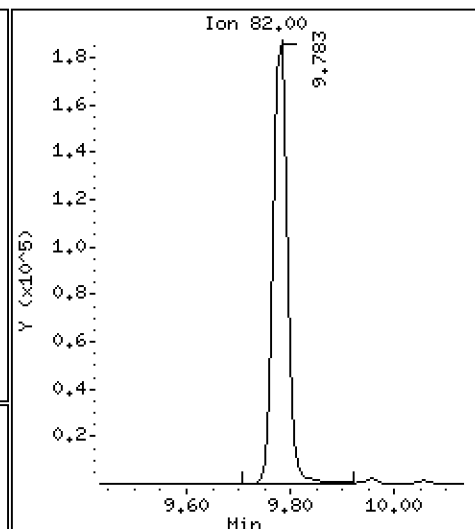
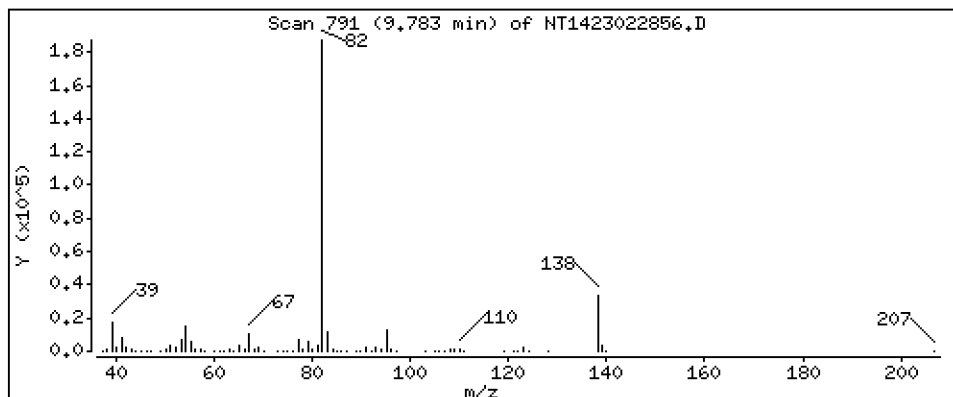
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 5,538 ug/mL



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Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

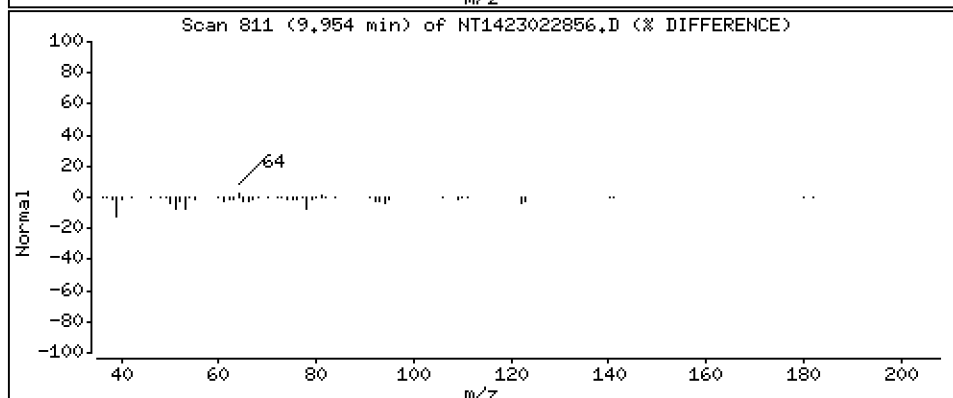
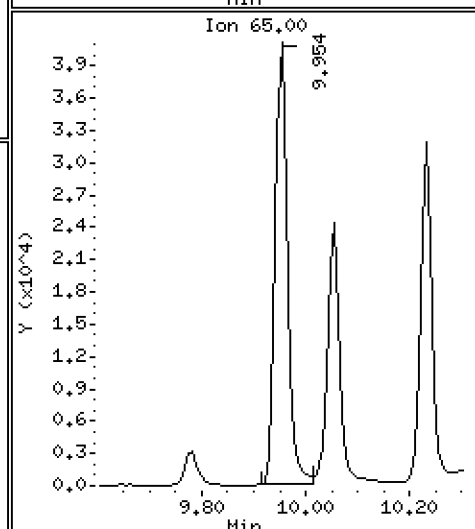
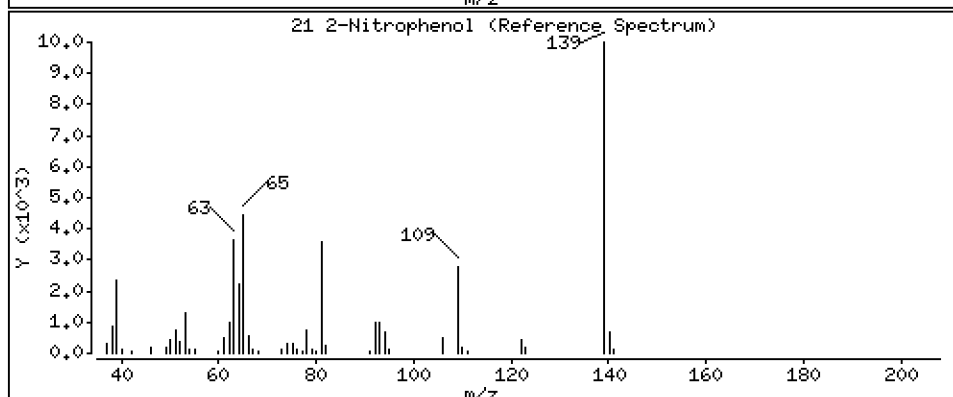
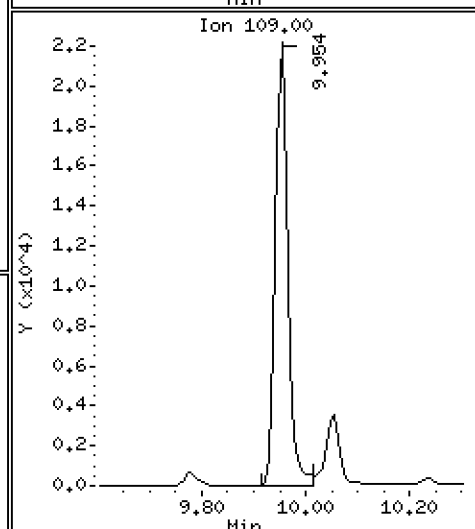
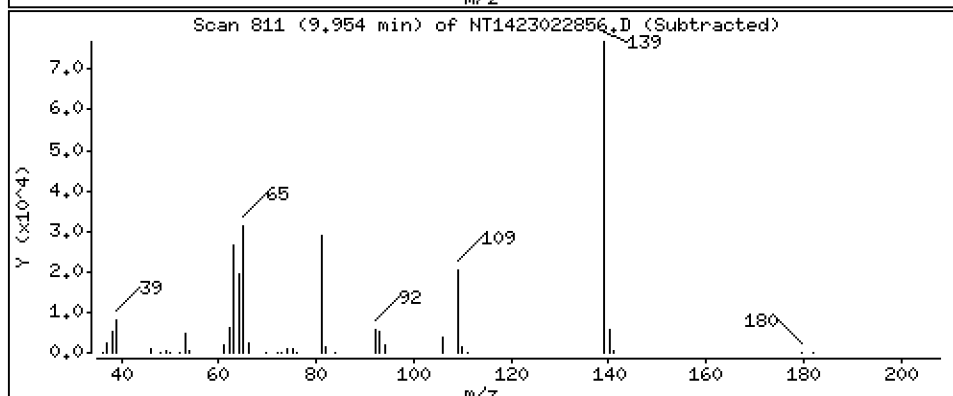
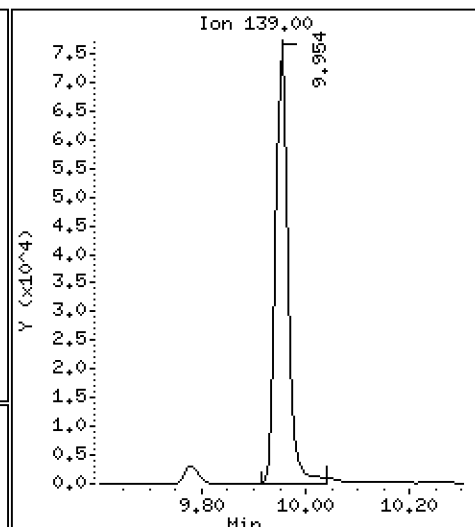
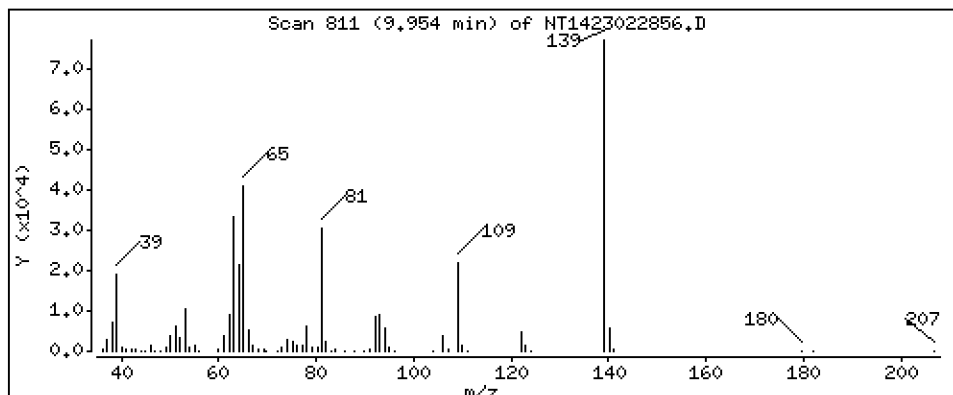
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 5,309 ug/mL



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Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

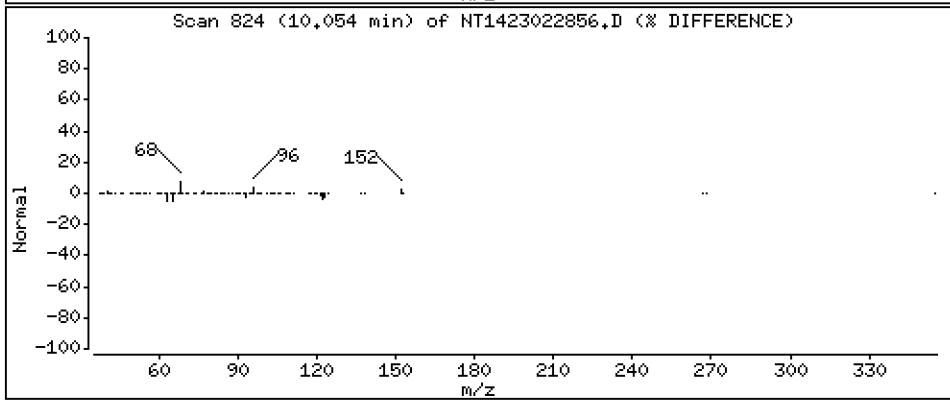
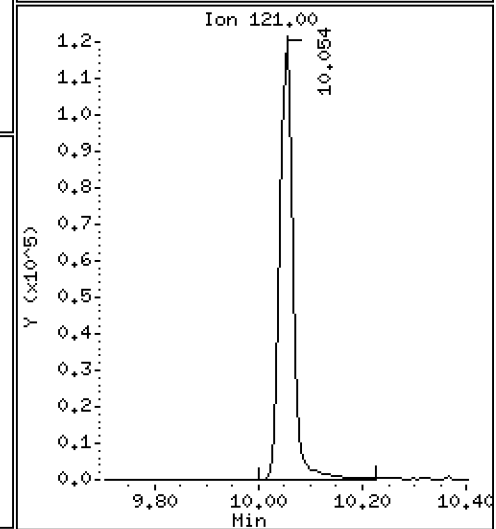
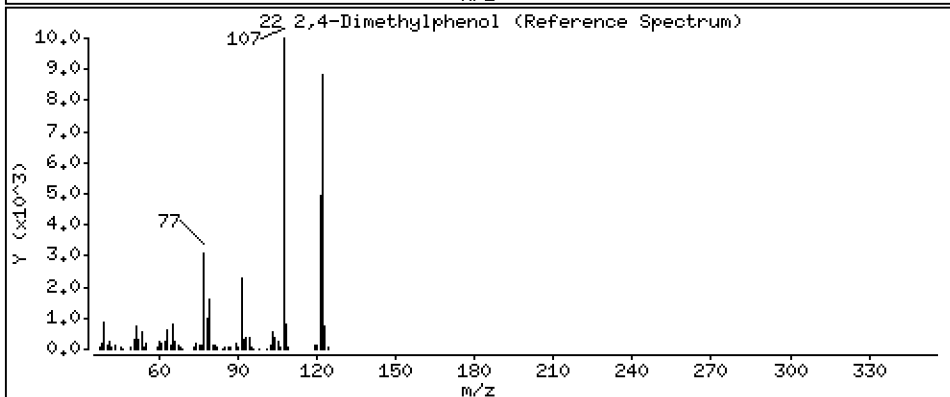
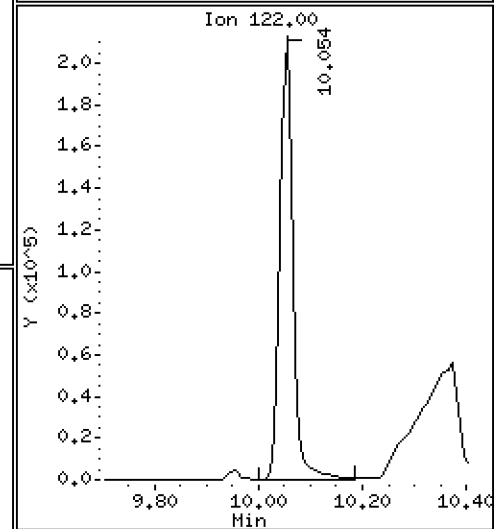
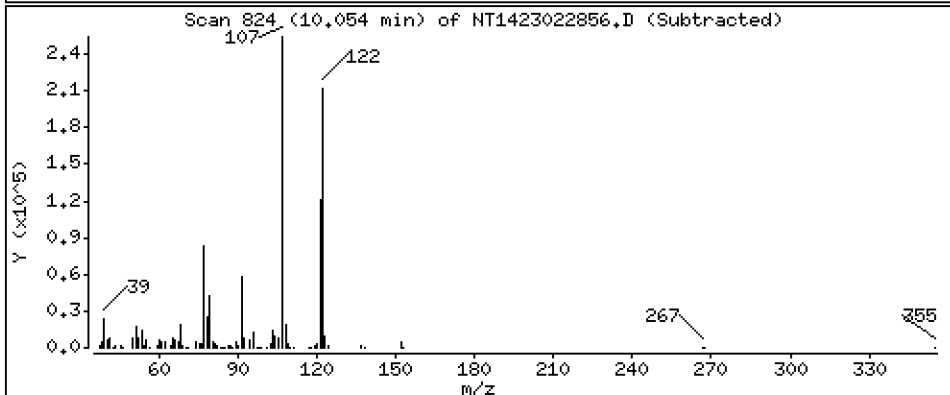
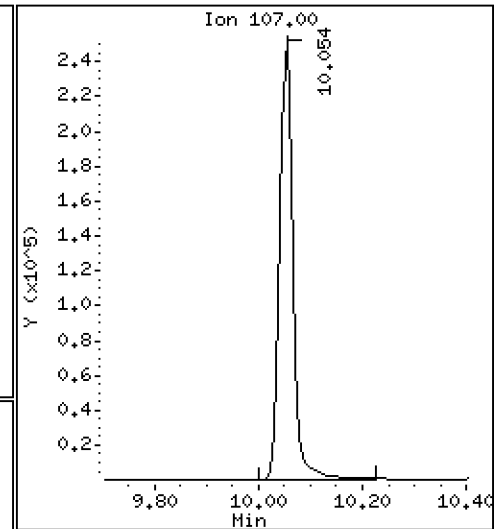
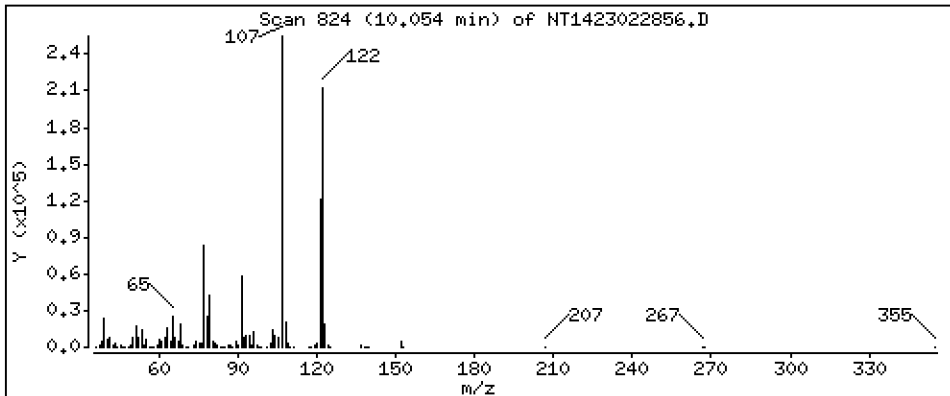
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 10,78 ug/mL



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Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

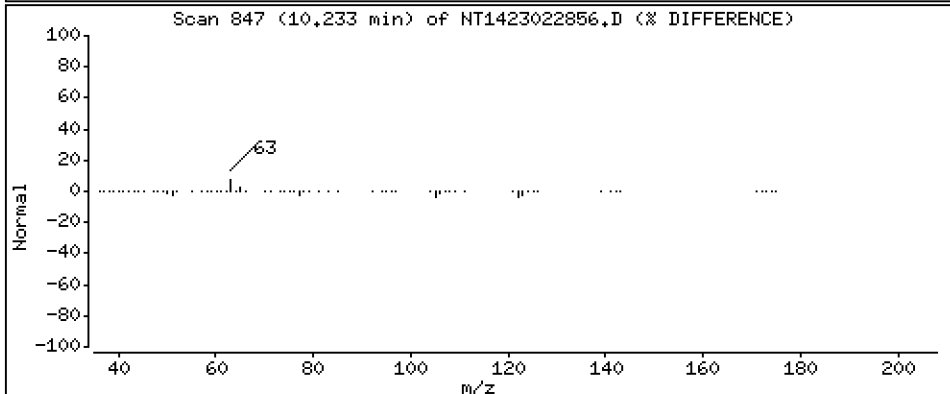
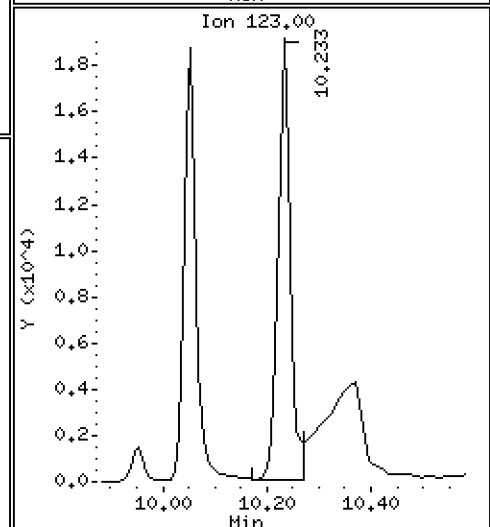
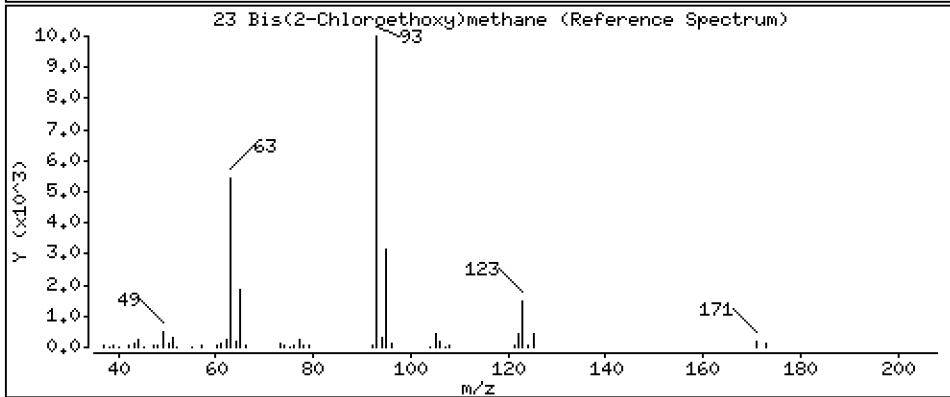
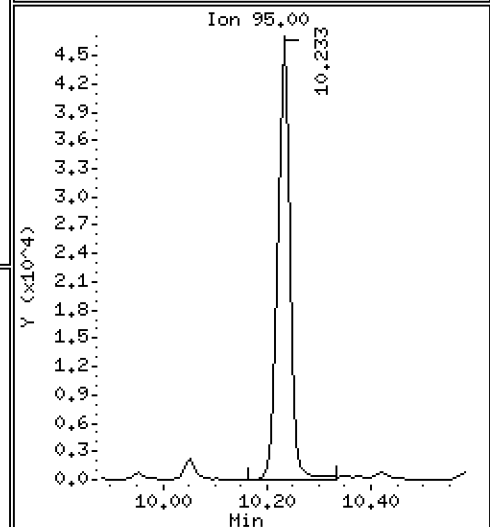
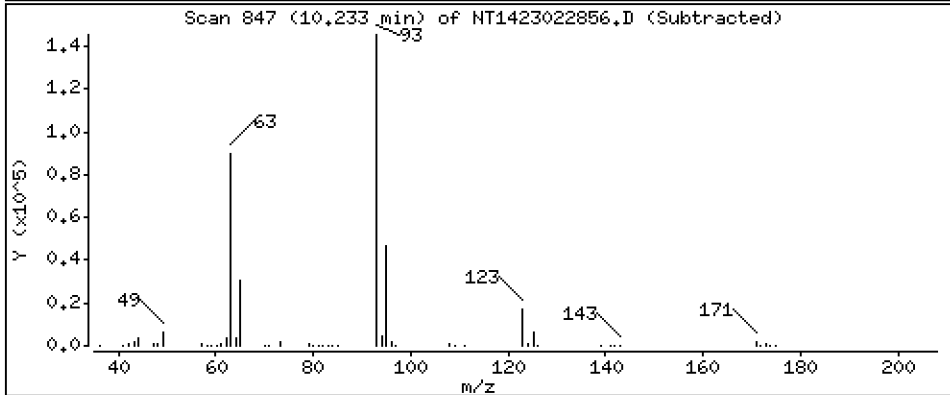
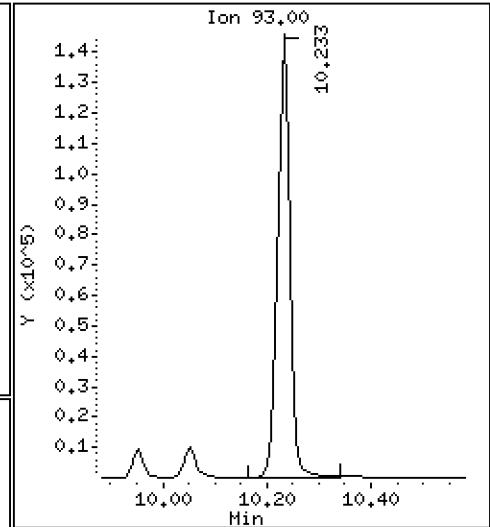
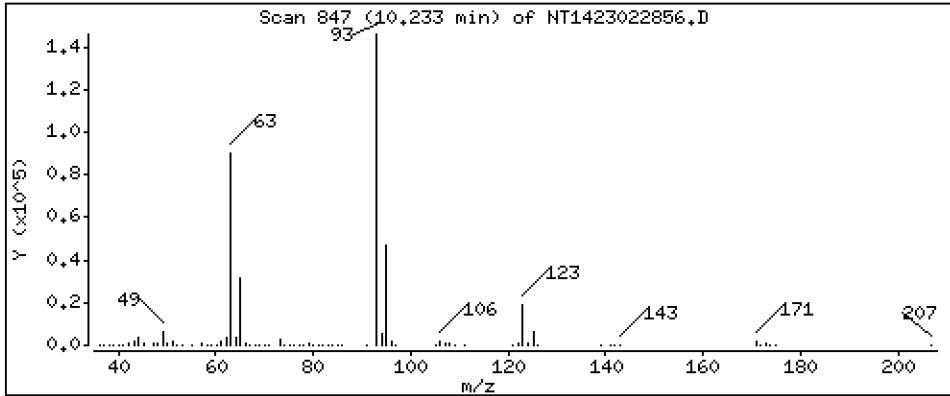
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,365 ug/mL



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Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

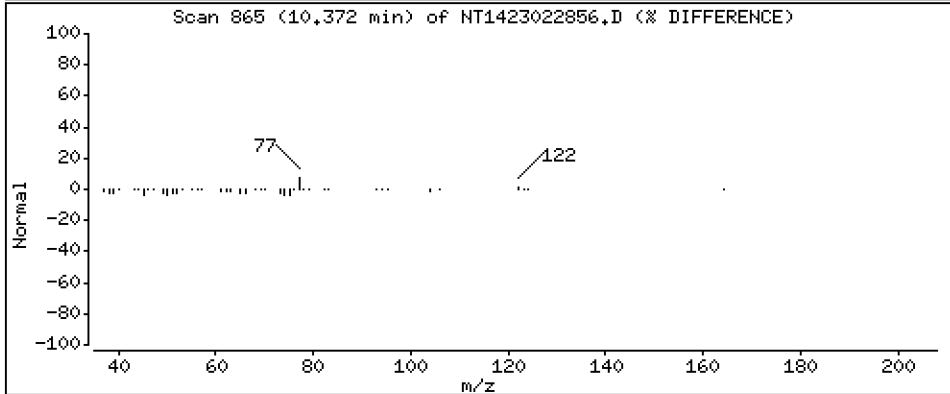
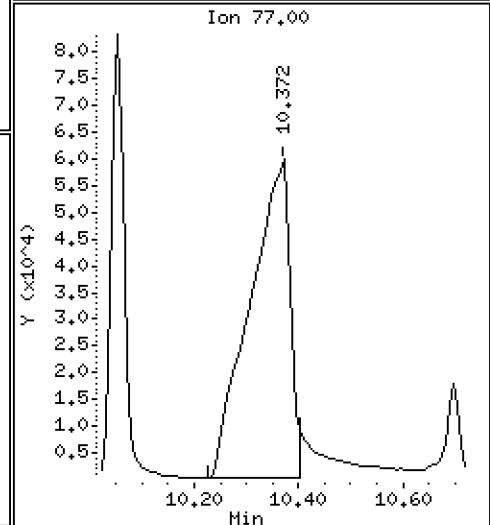
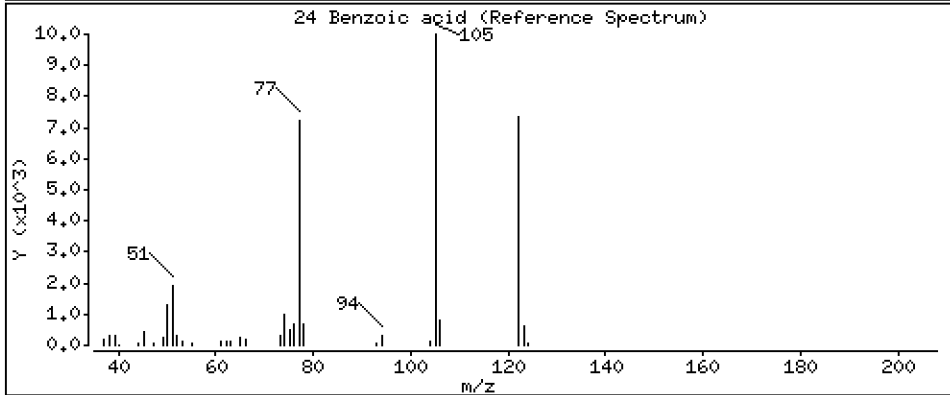
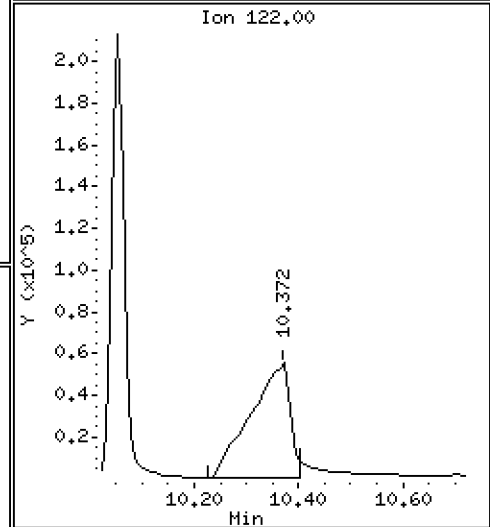
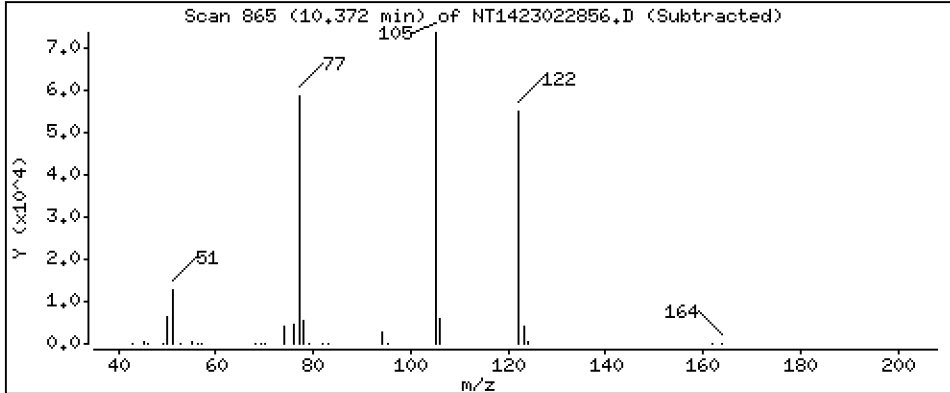
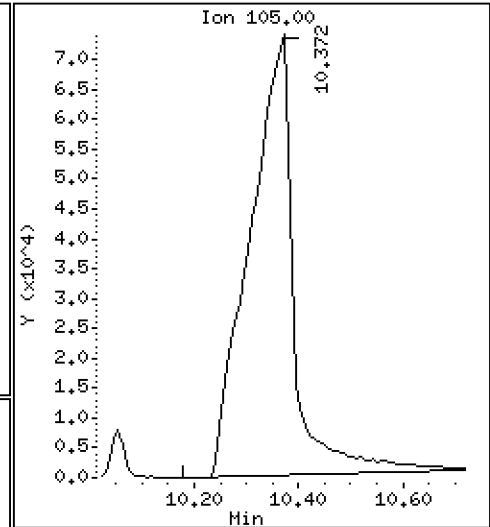
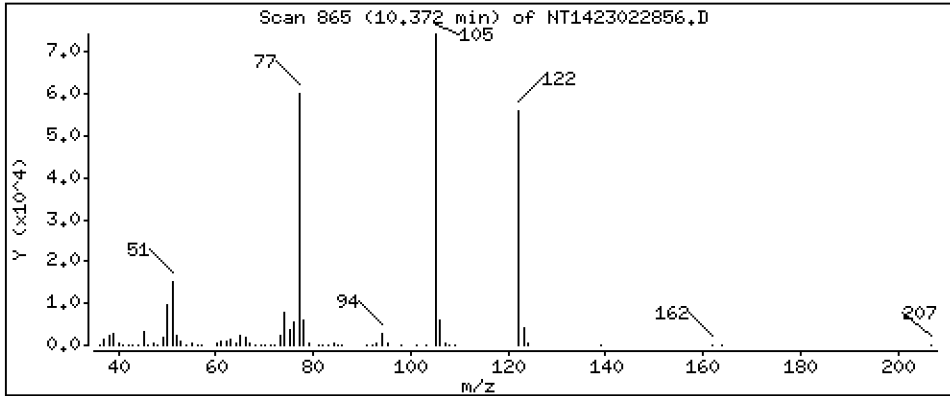
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 26,08 ug/mL



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Instrument: nt14.i

Sample Info: SLB0374-CCV7

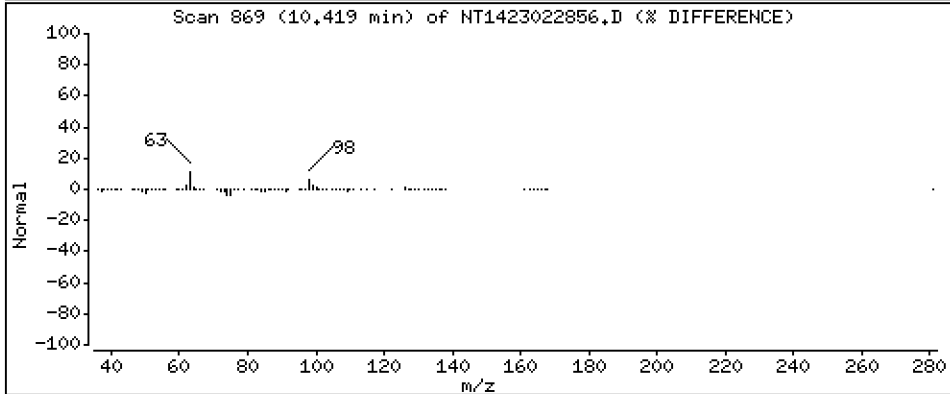
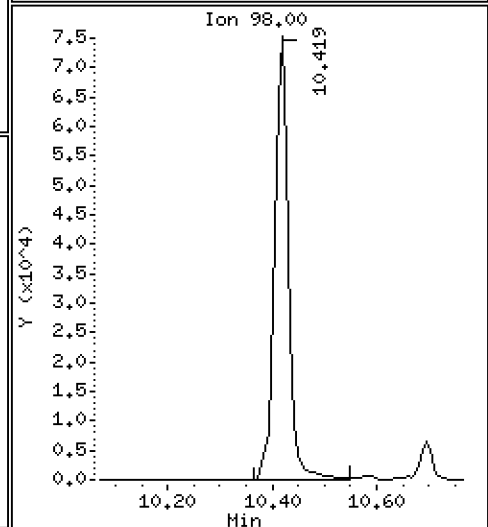
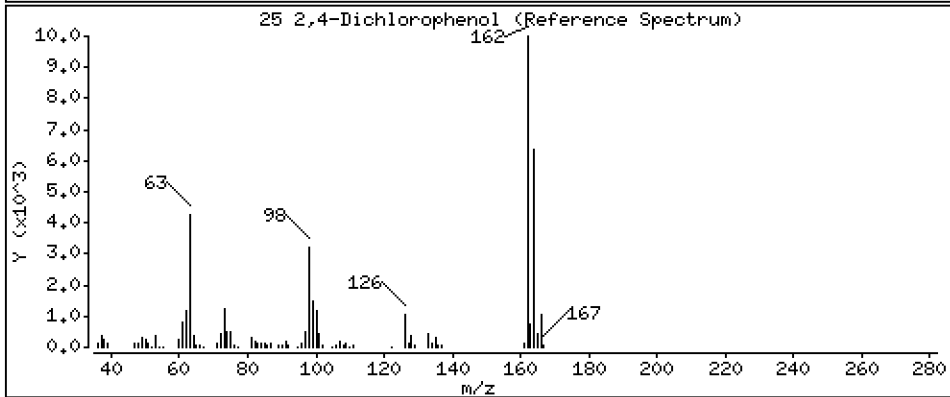
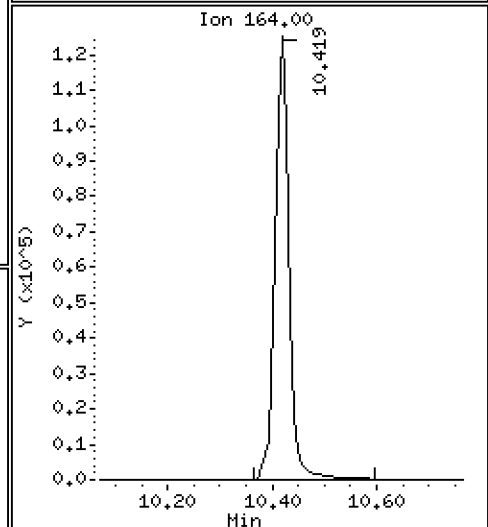
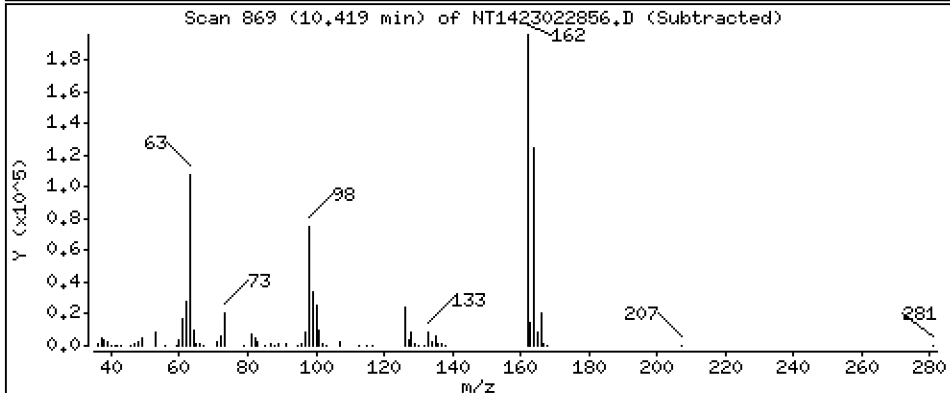
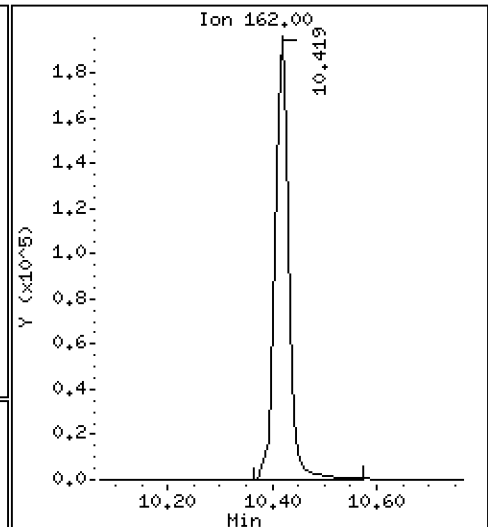
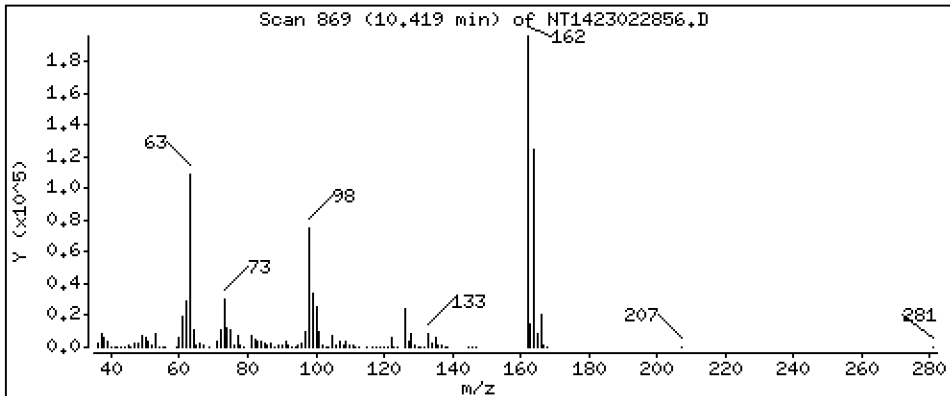
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 9,798 ug/mL



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Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

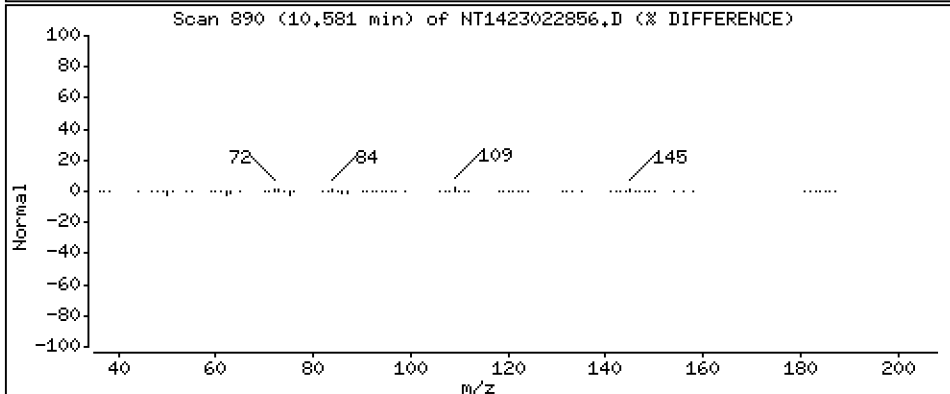
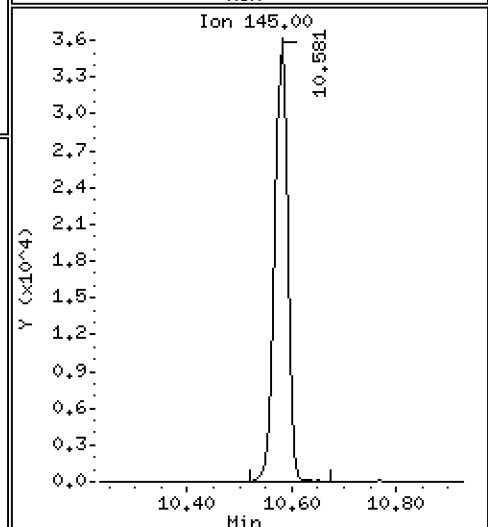
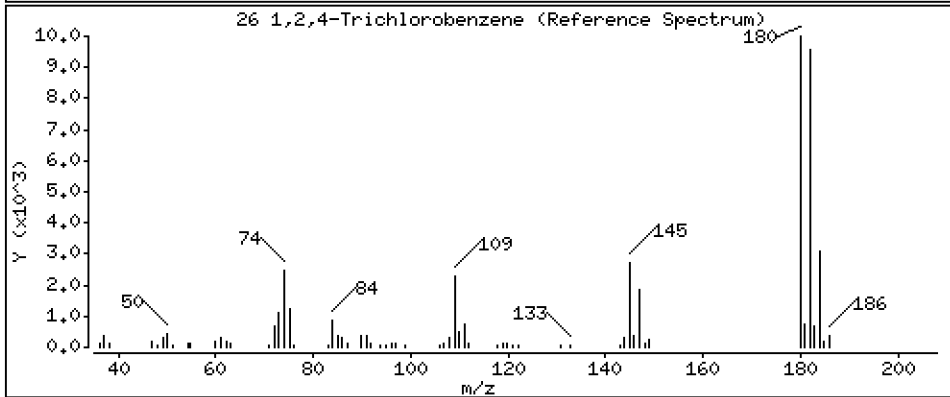
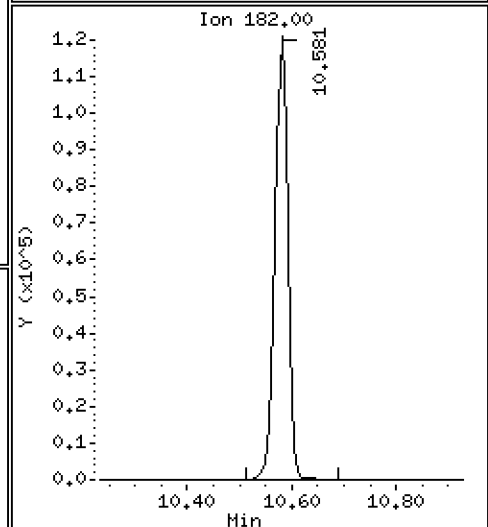
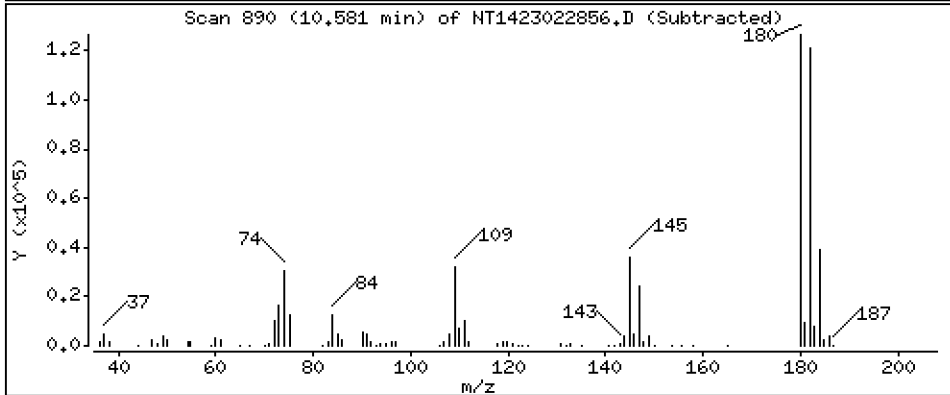
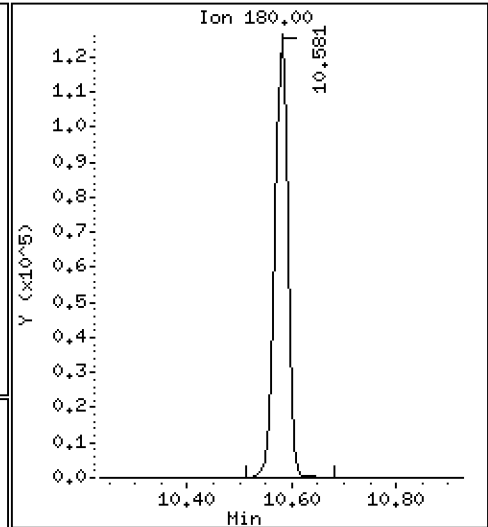
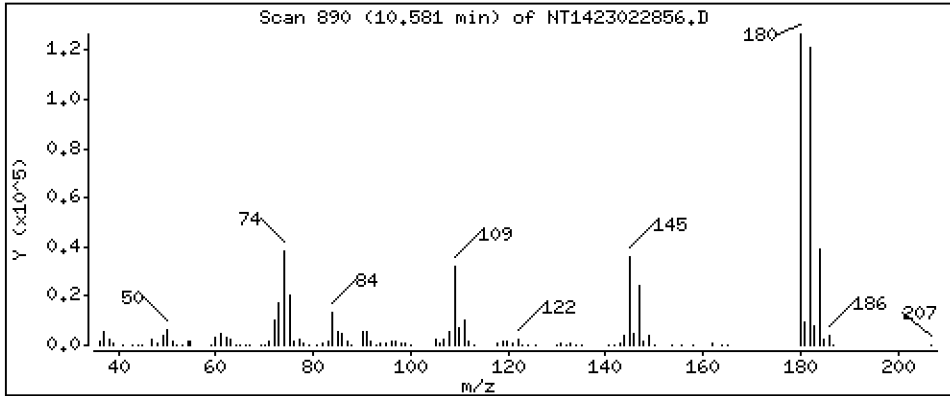
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,658 ug/mL



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Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

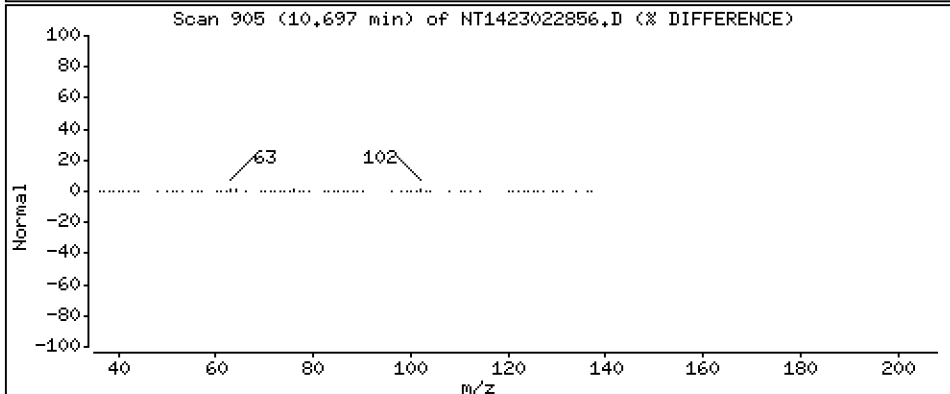
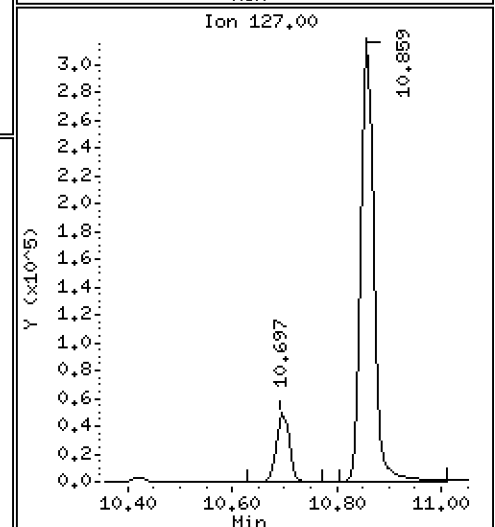
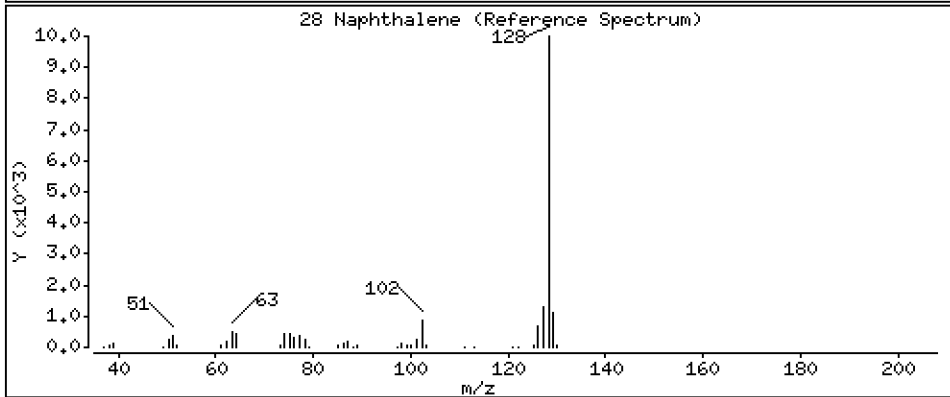
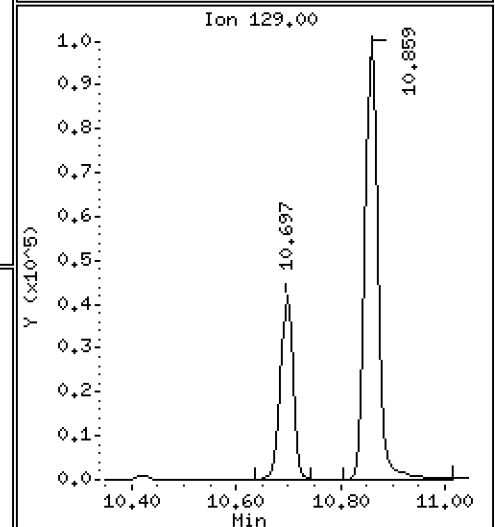
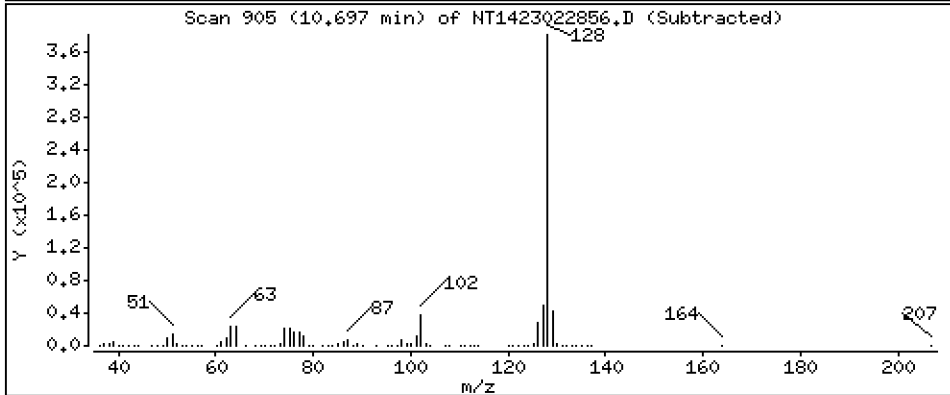
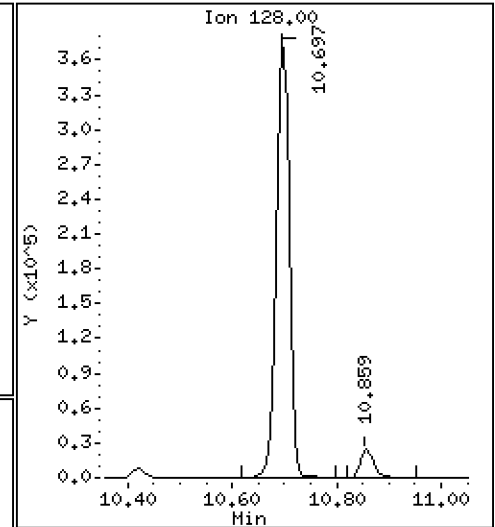
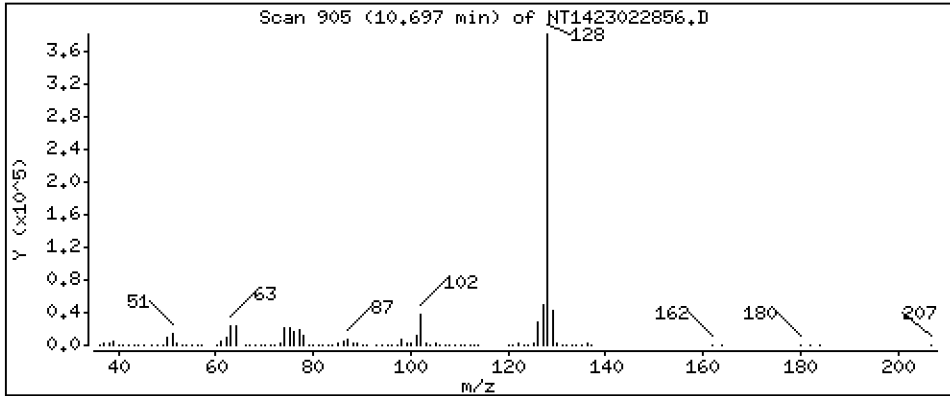
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 5,038 ug/mL





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Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

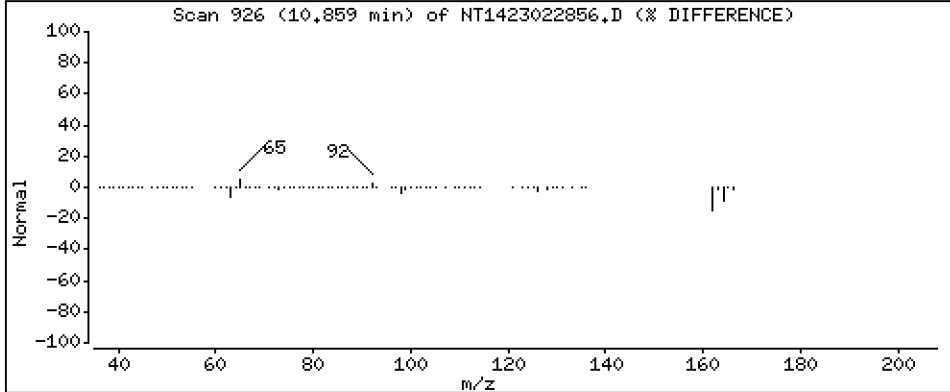
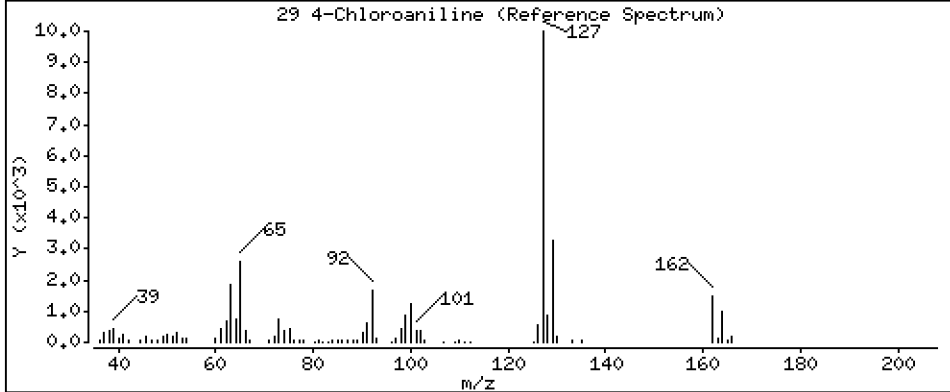
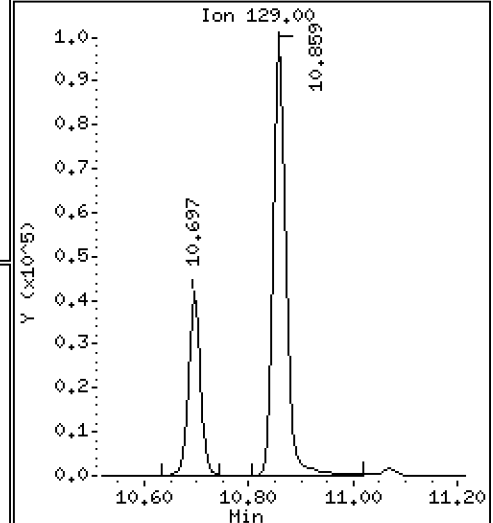
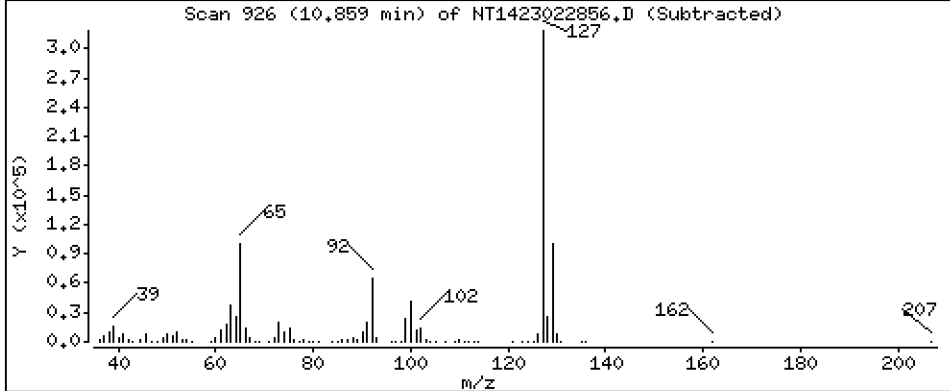
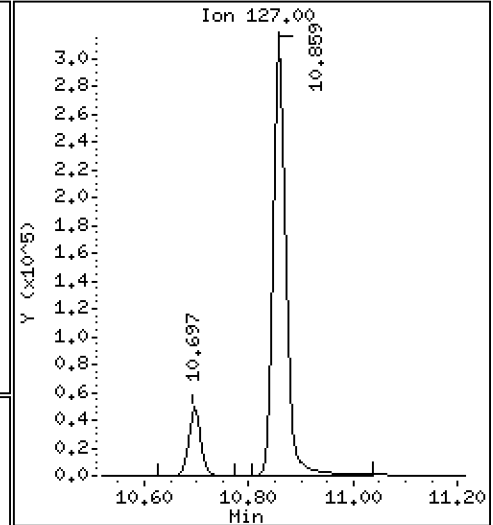
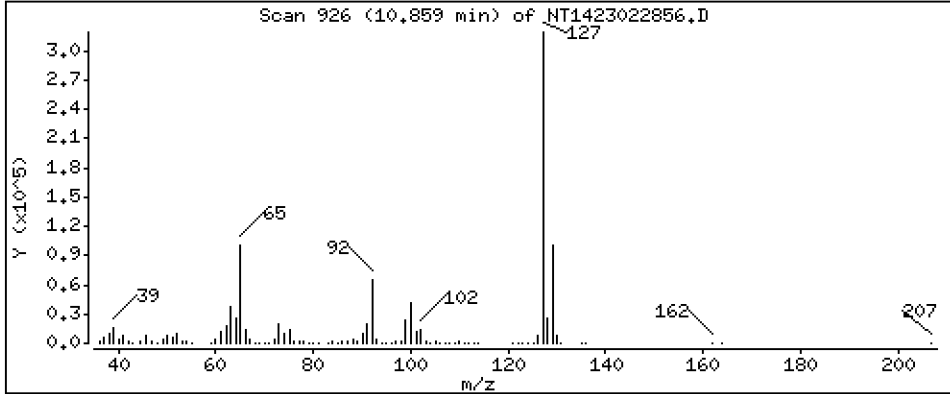
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 10,69 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

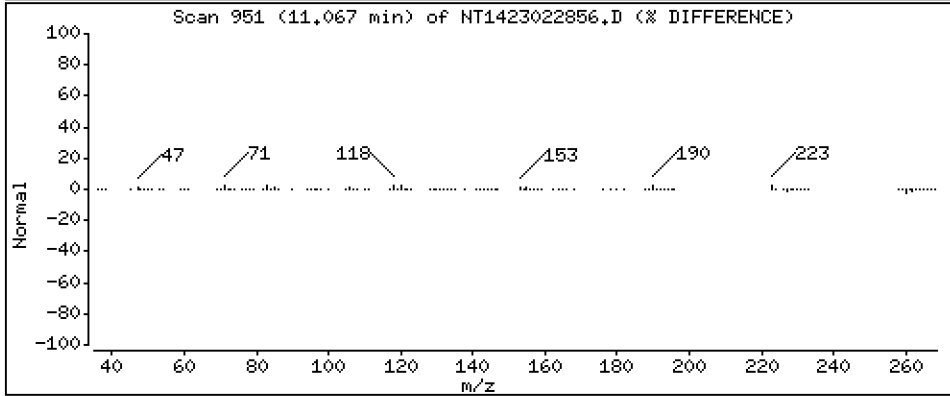
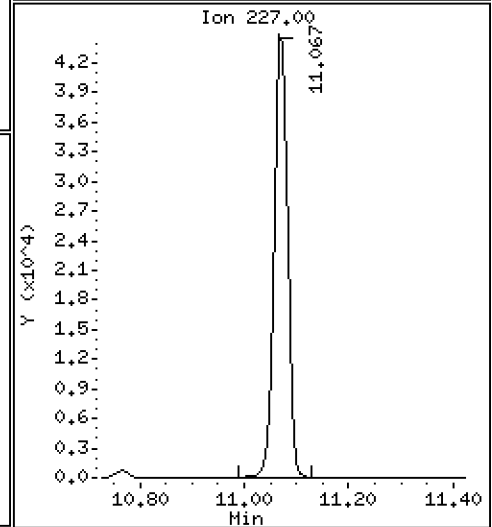
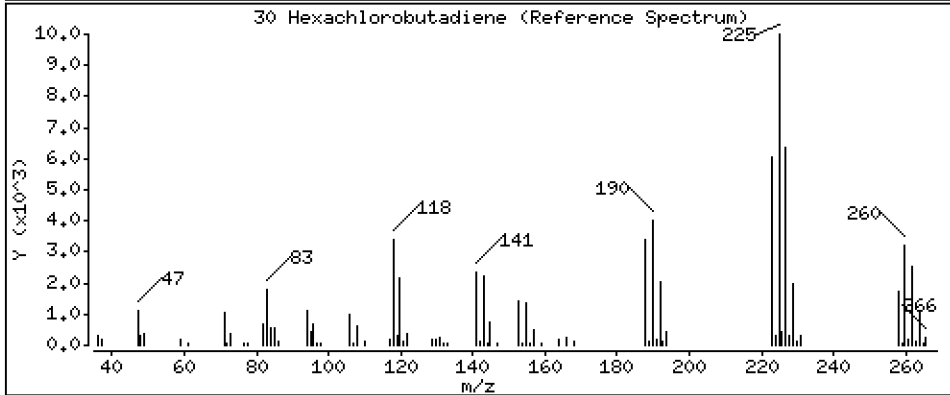
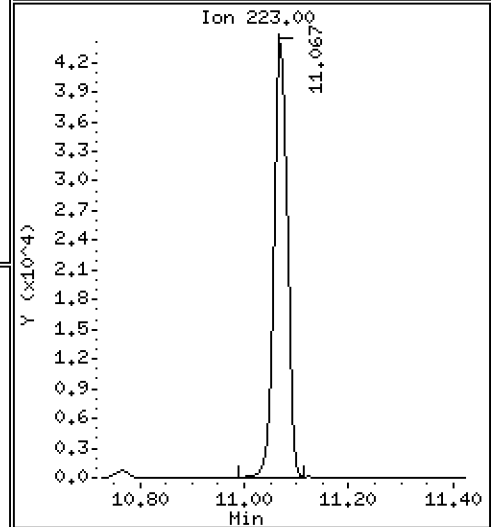
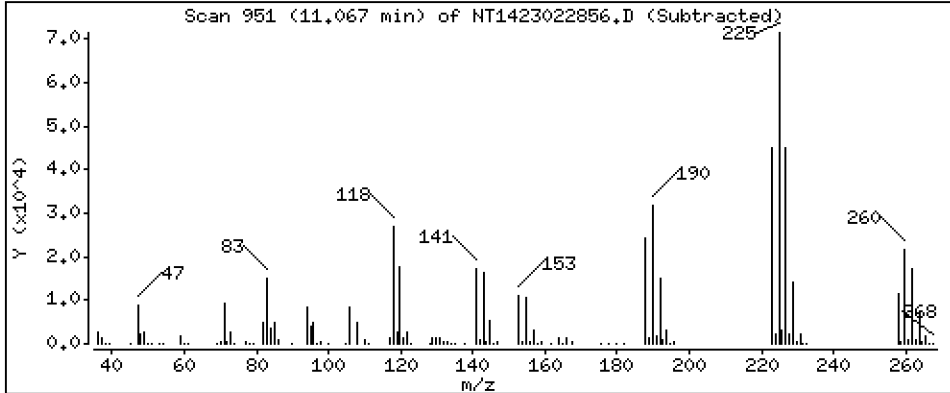
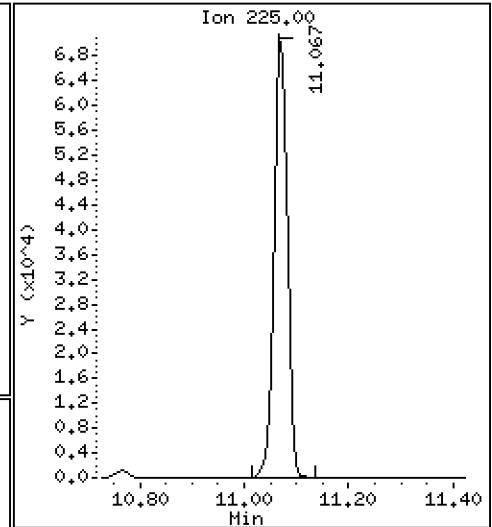
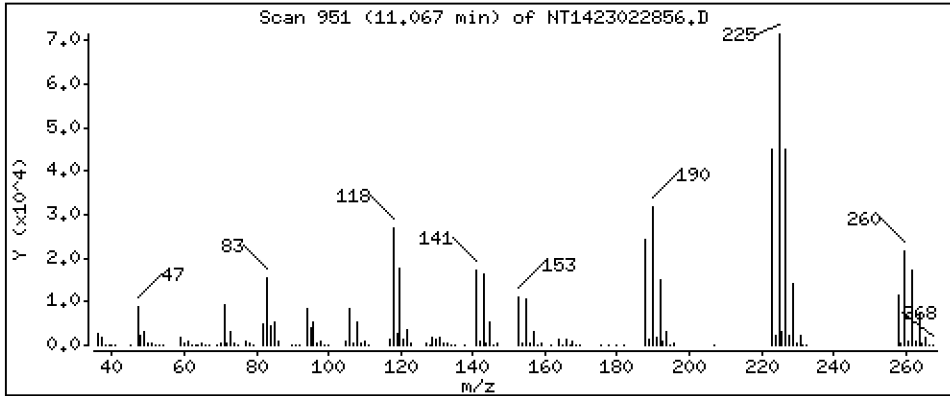
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,447 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

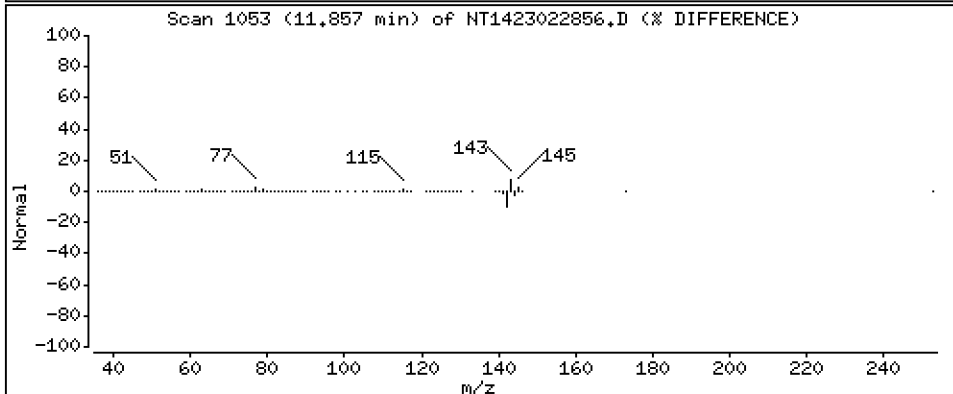
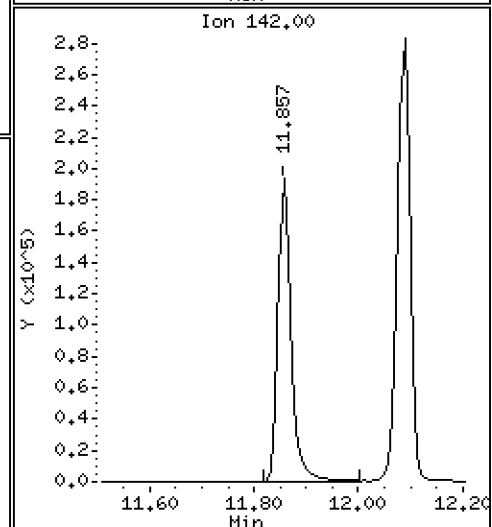
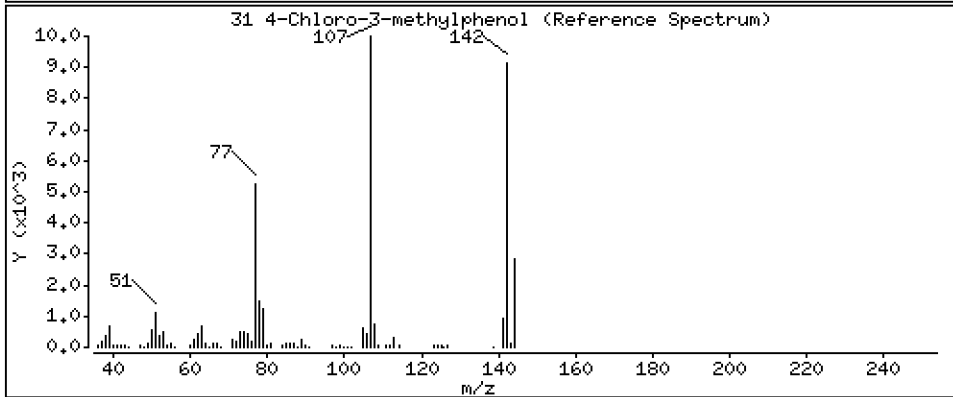
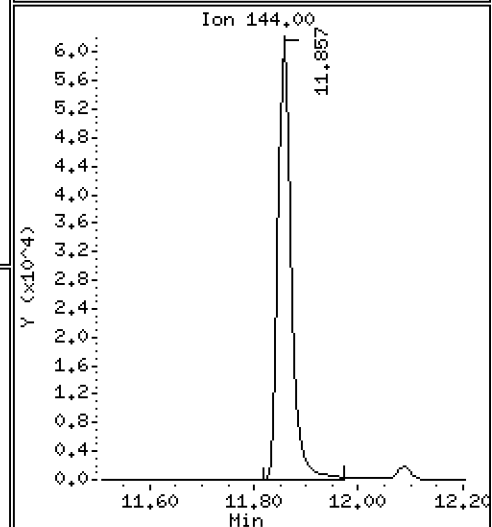
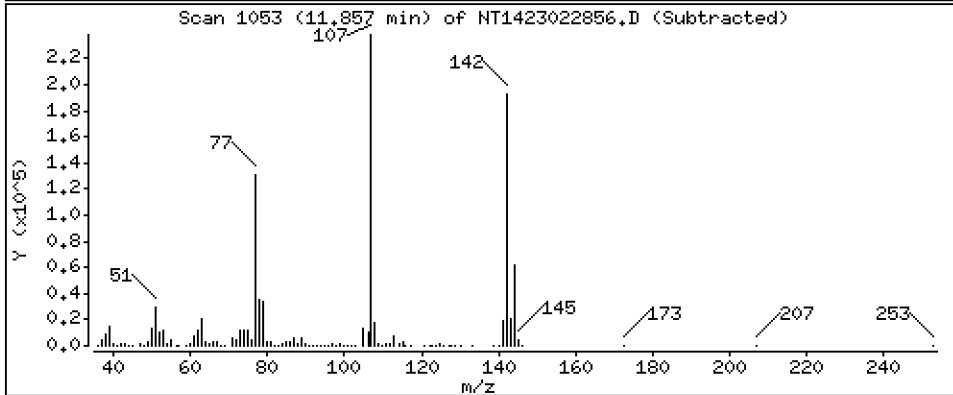
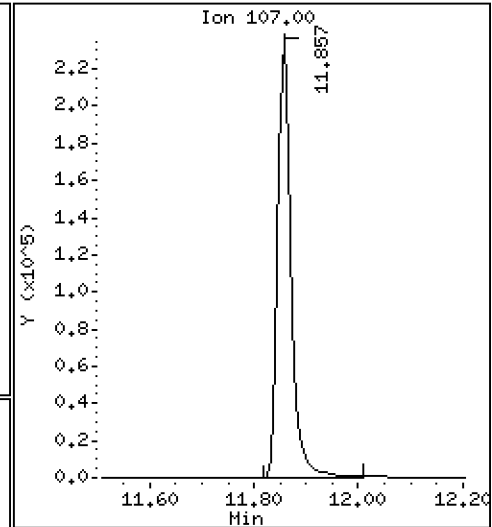
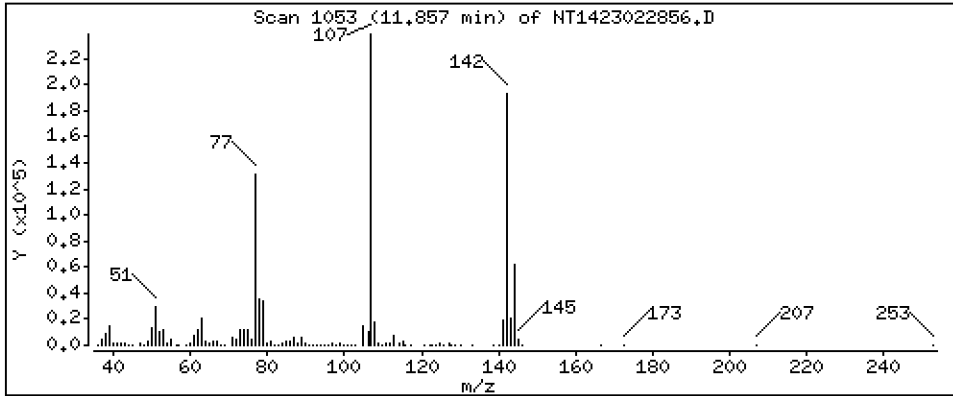
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 11,21 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

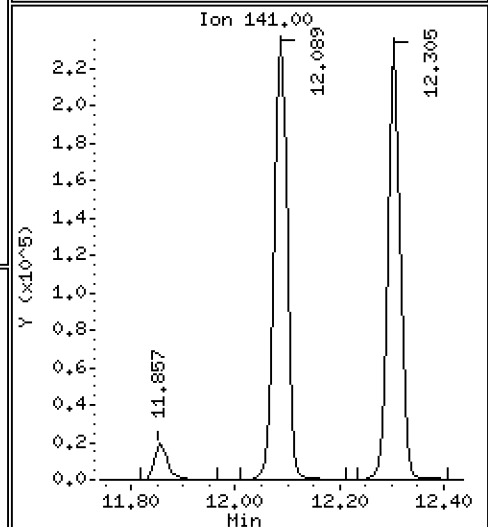
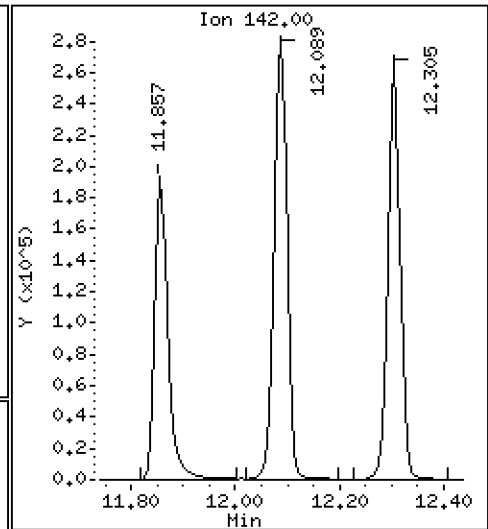
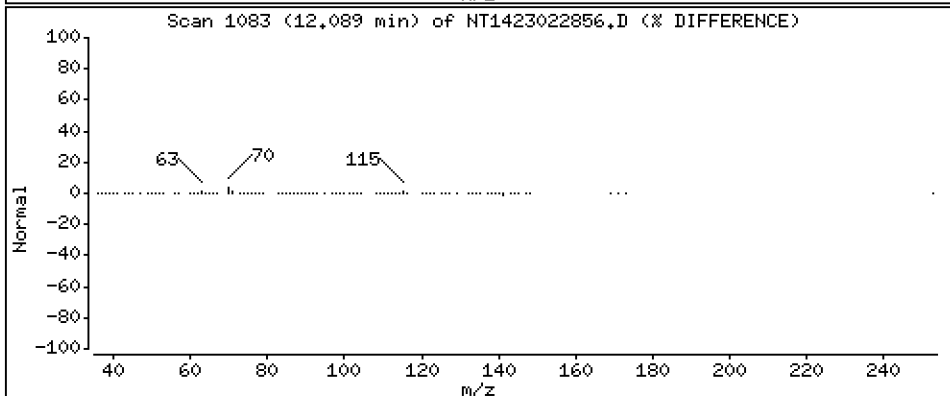
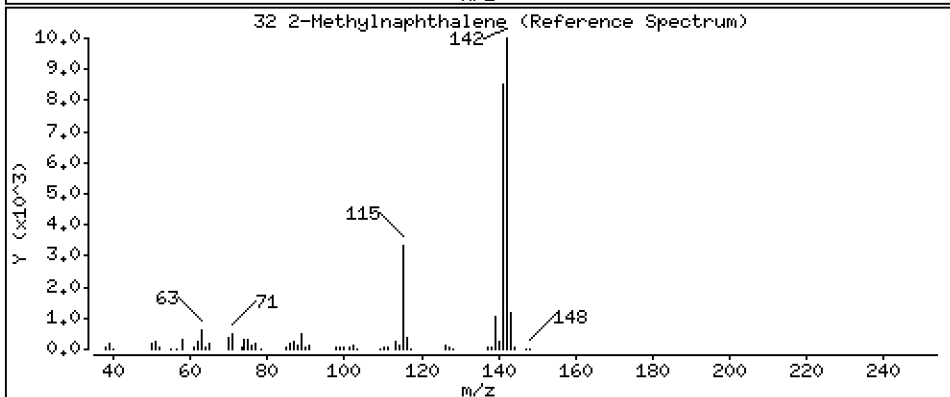
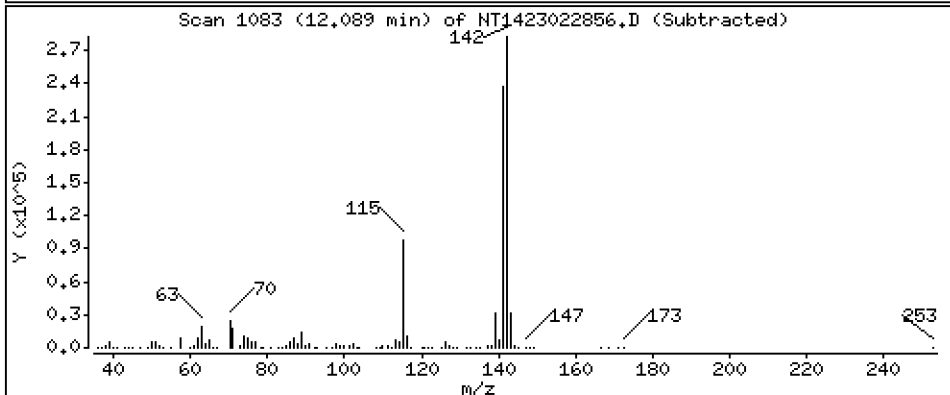
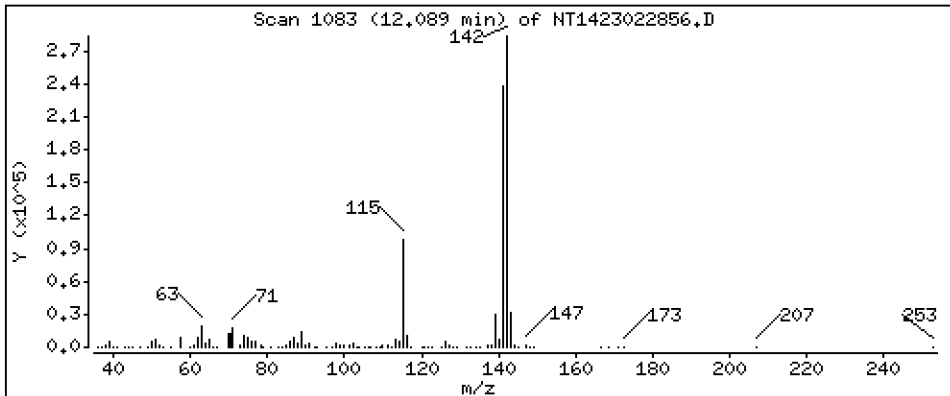
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 5,091 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

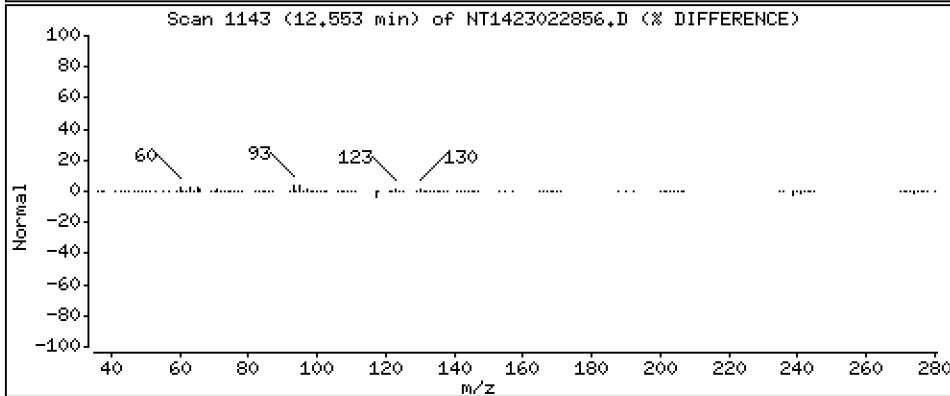
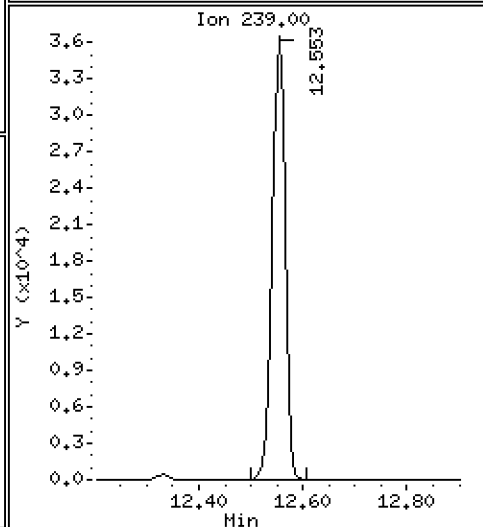
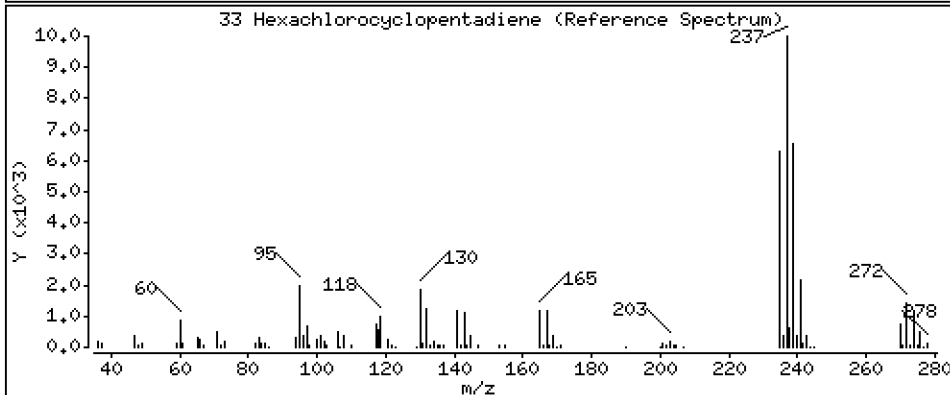
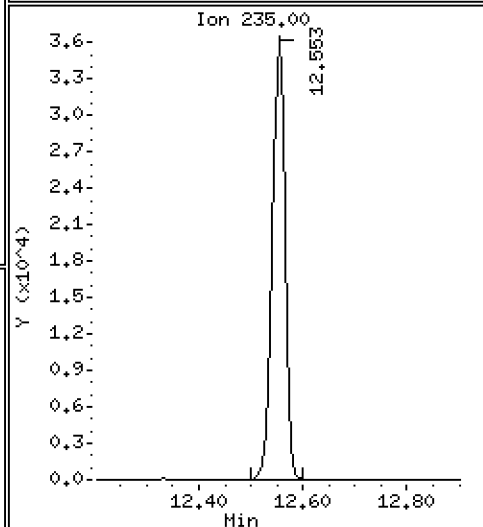
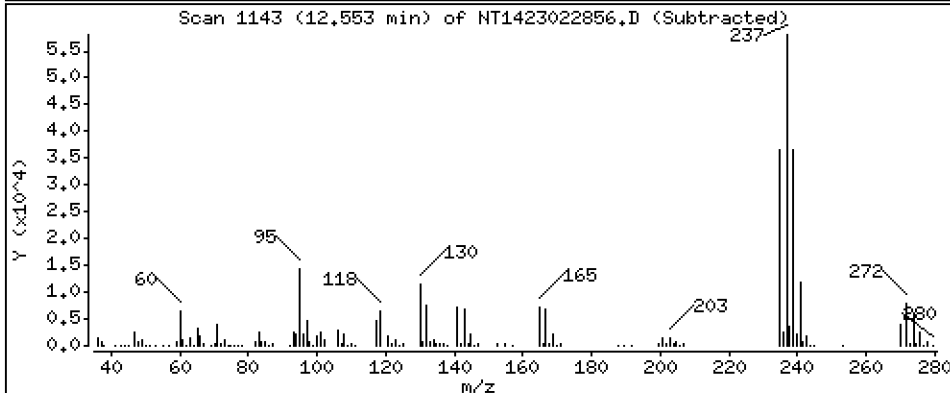
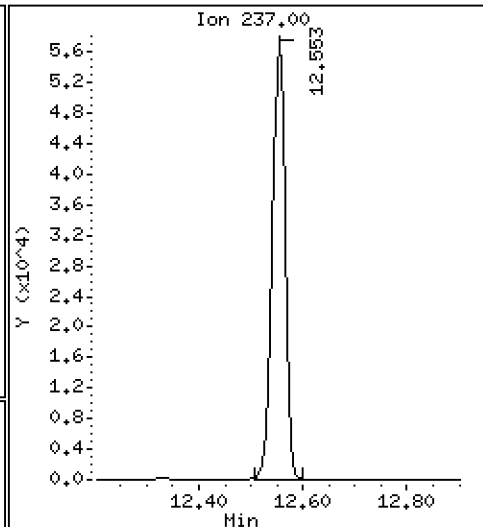
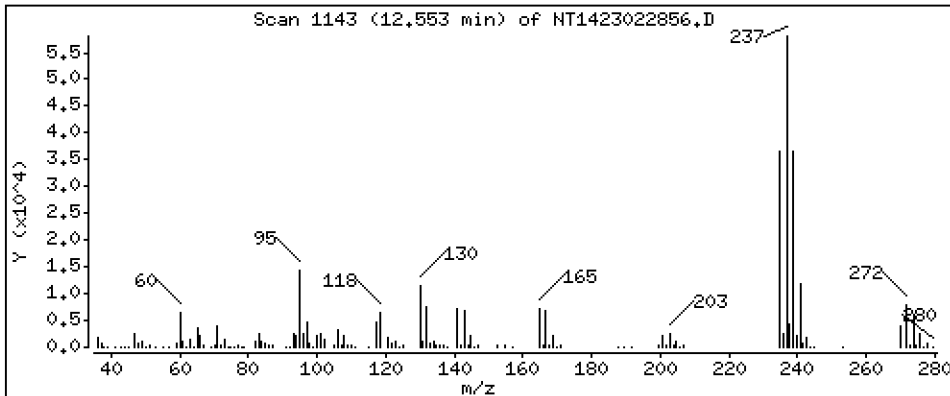
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 3,270 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

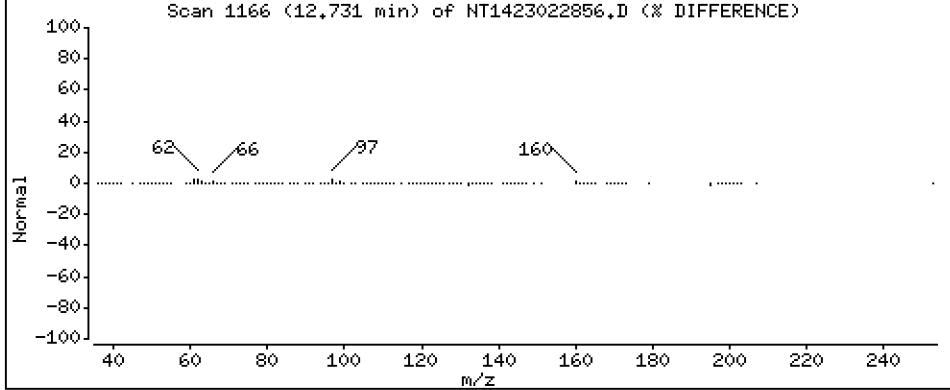
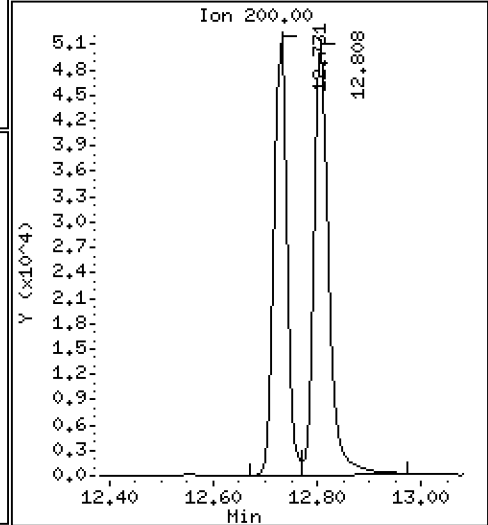
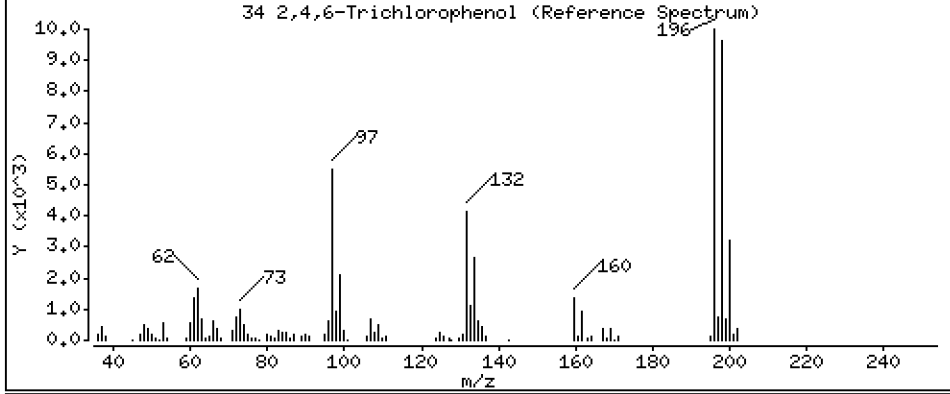
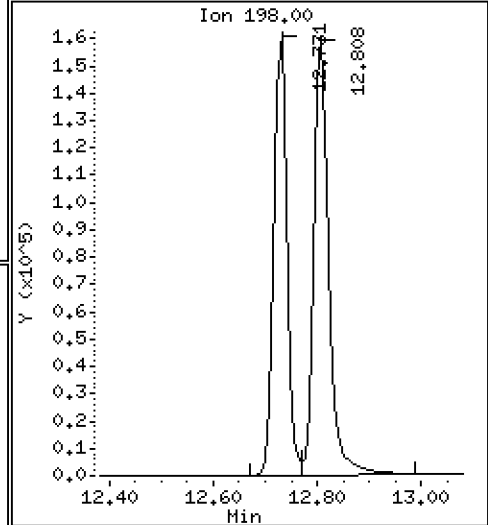
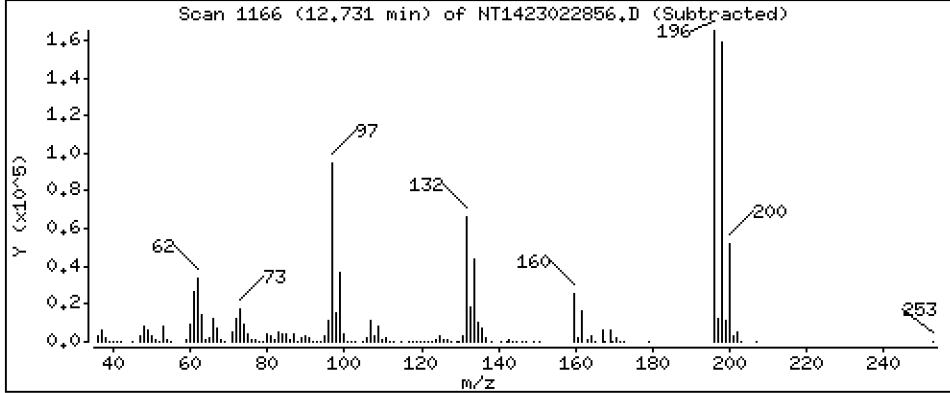
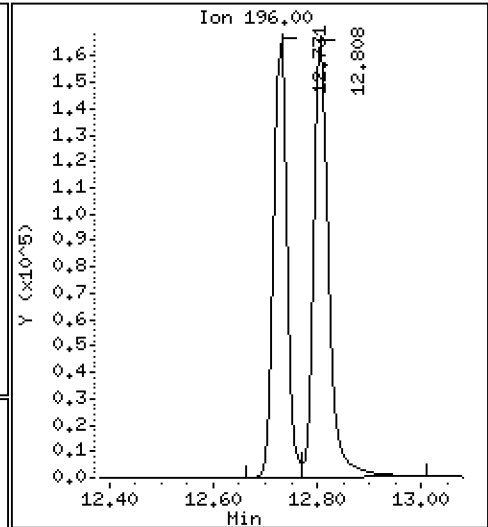
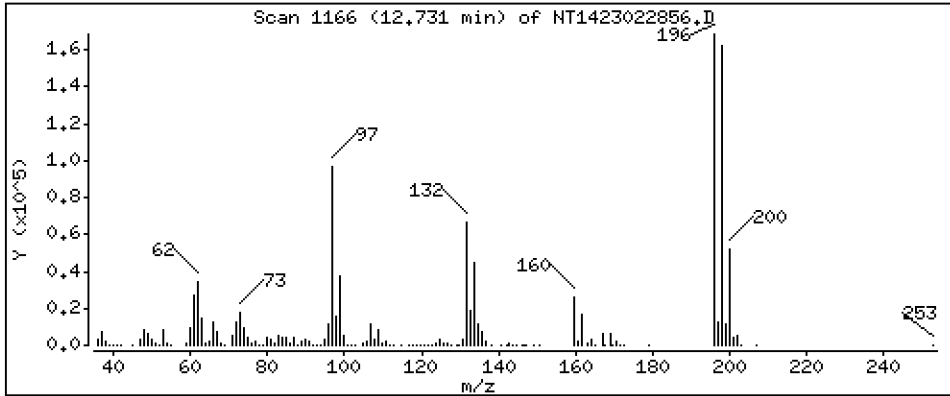
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 10,58 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

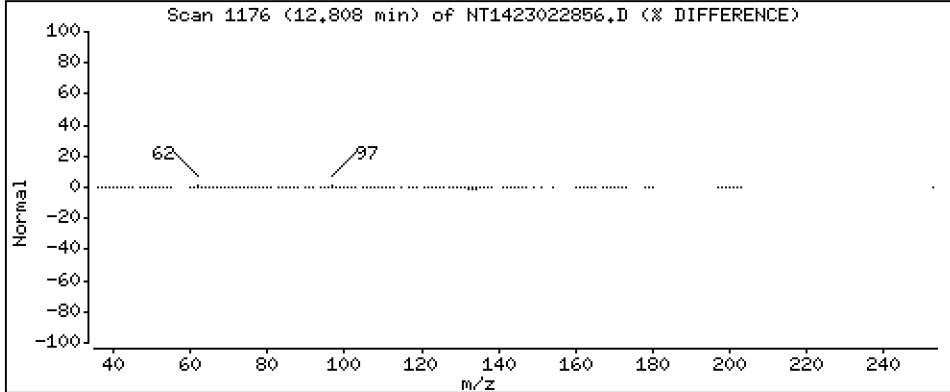
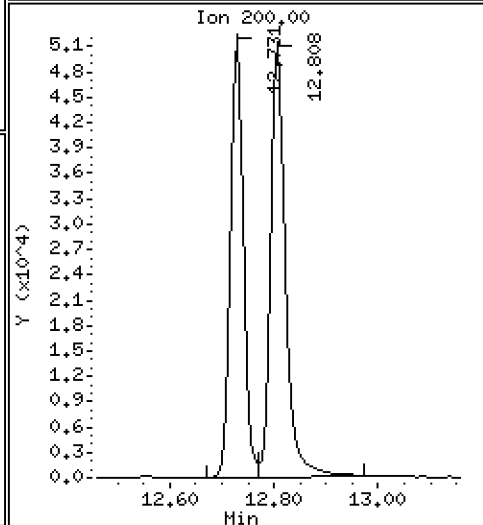
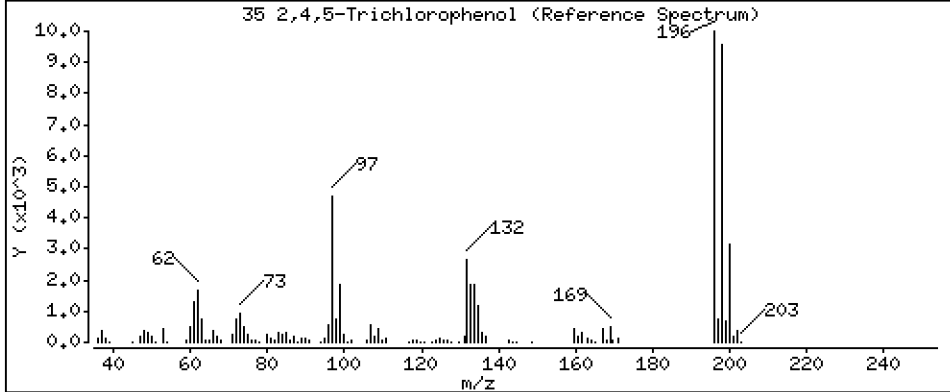
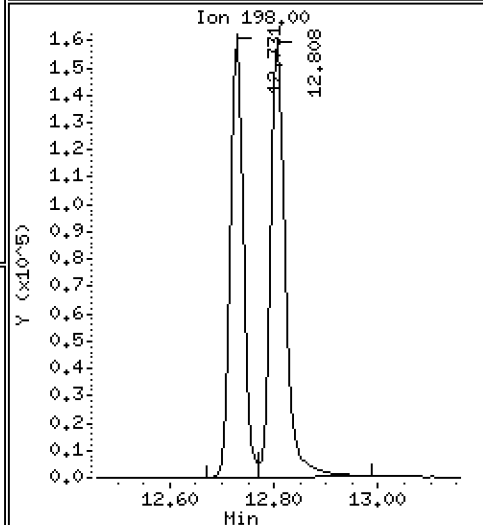
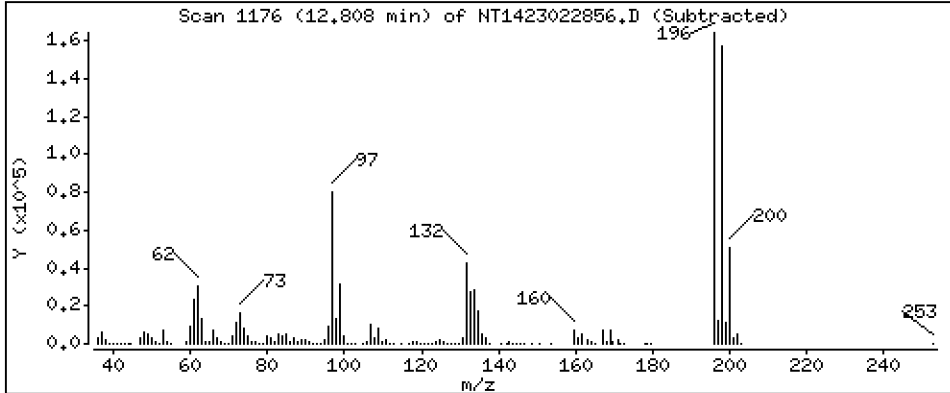
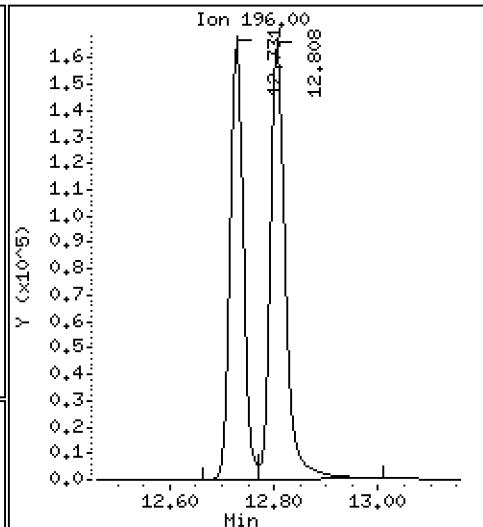
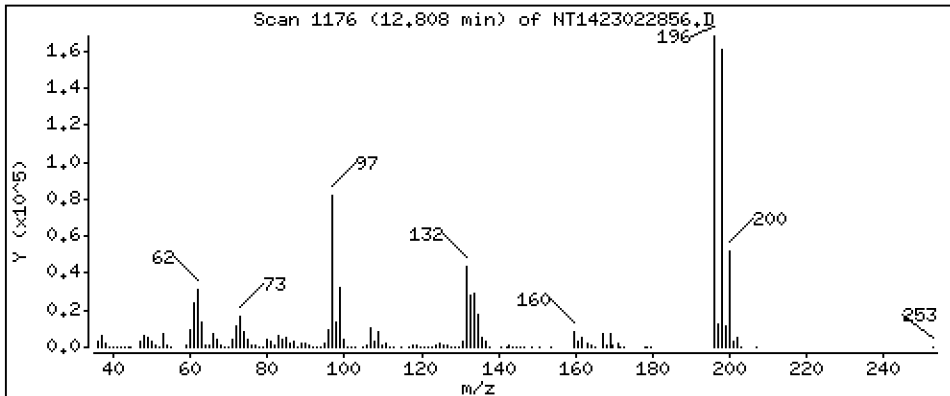
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 11,12 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

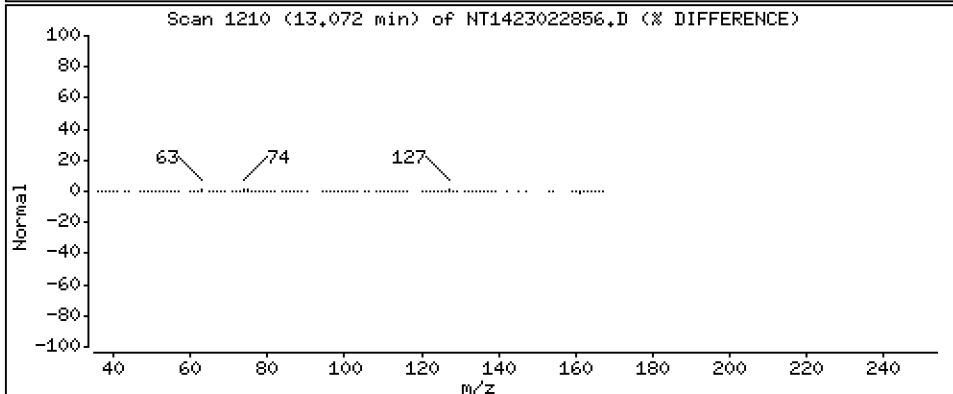
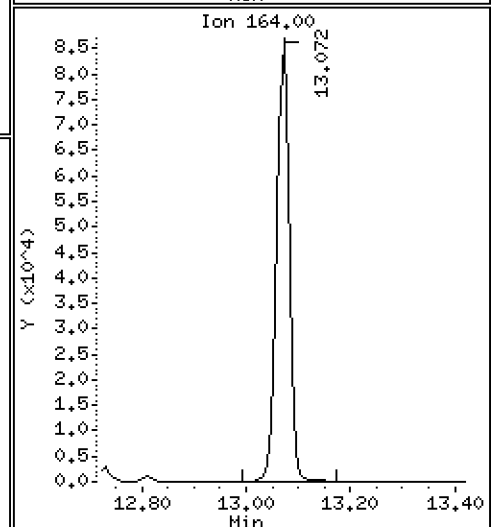
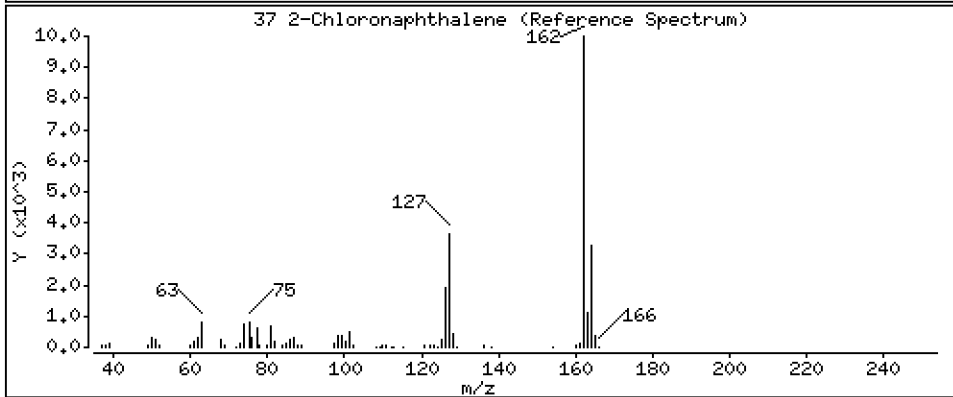
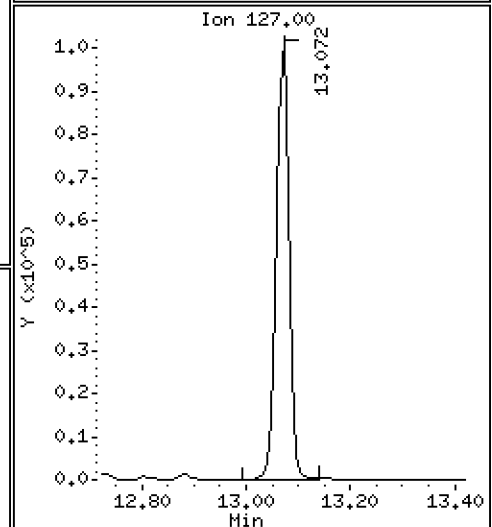
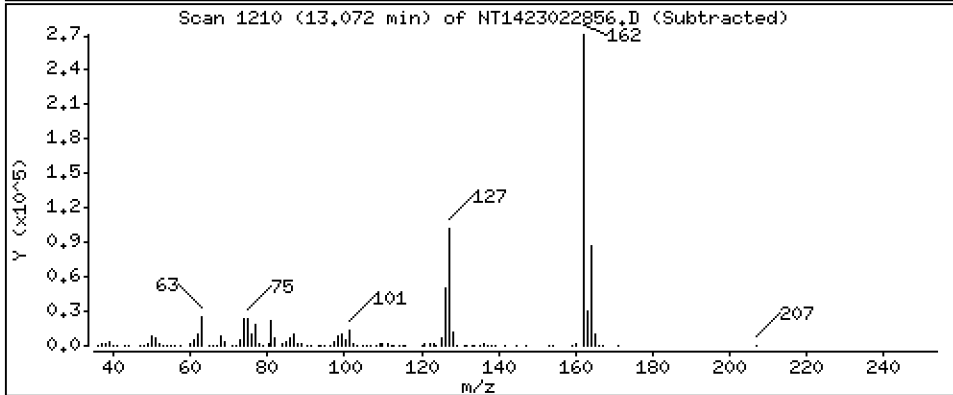
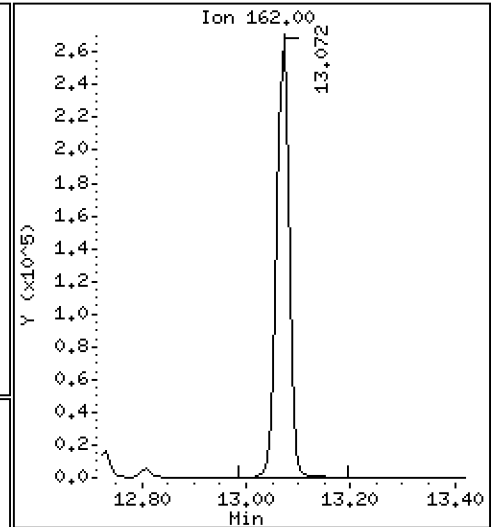
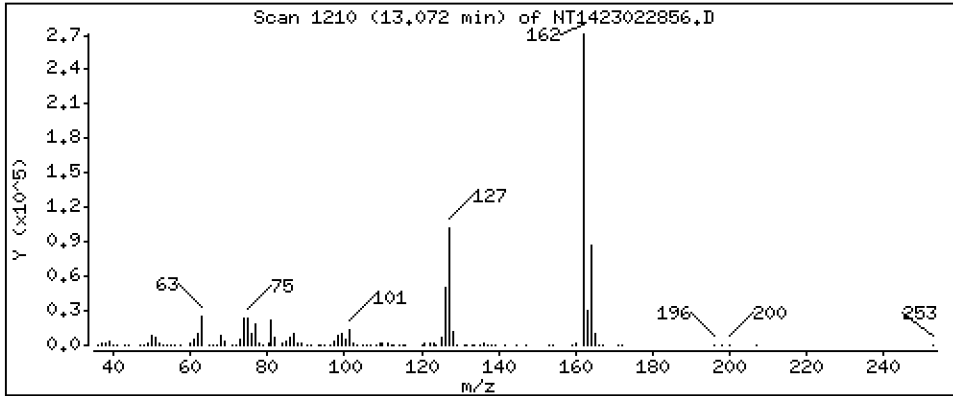
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 5,056 ug/mL





Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

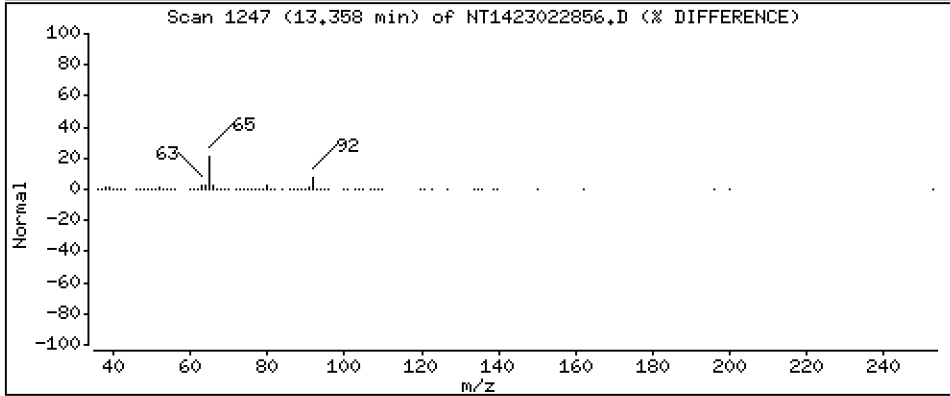
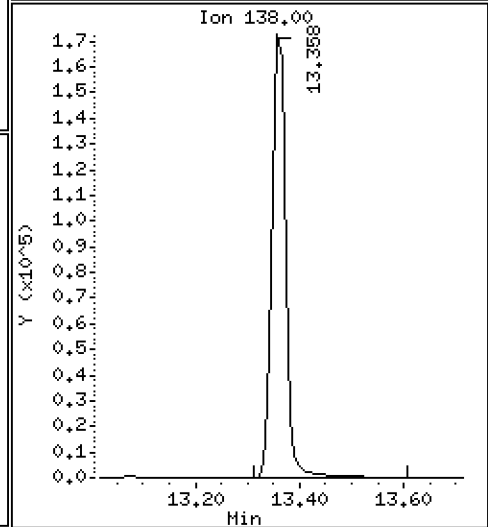
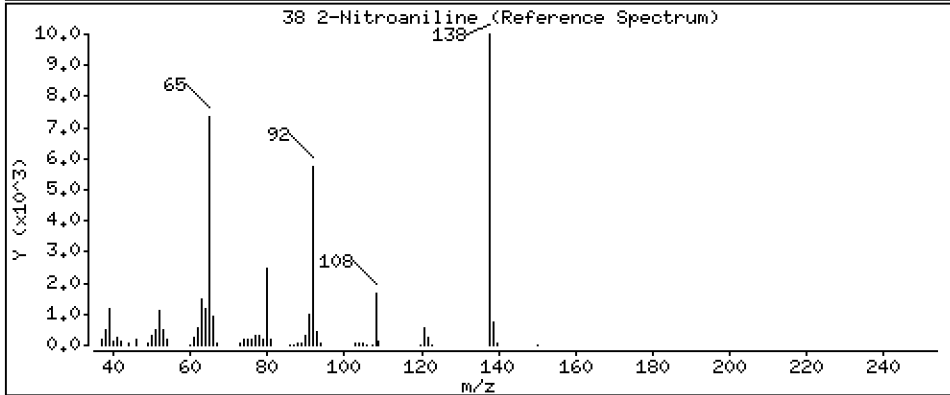
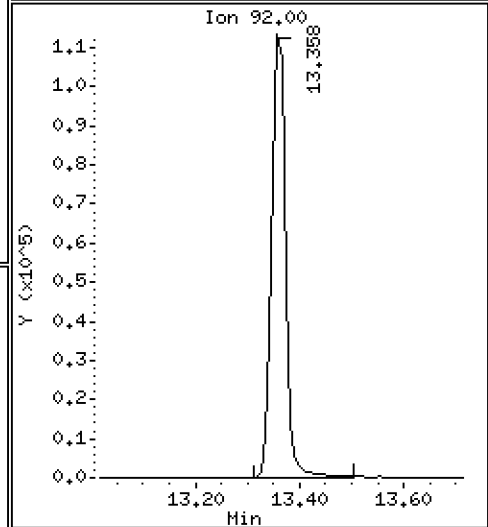
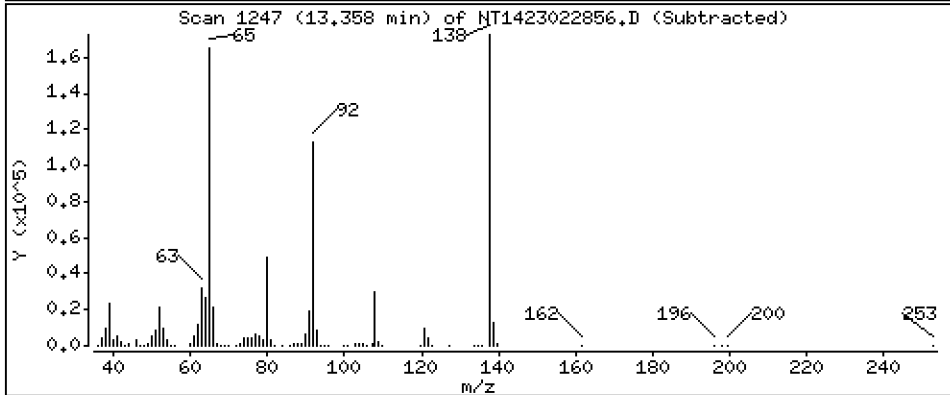
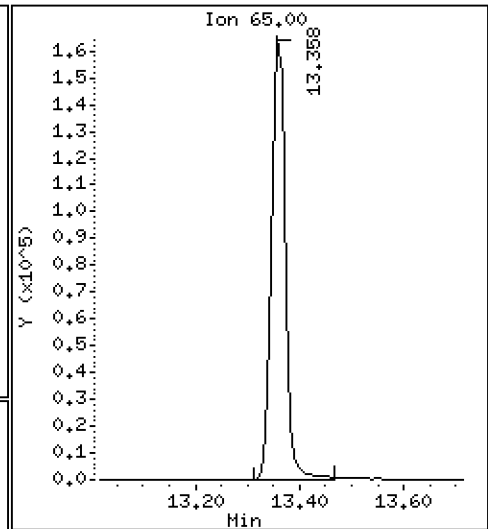
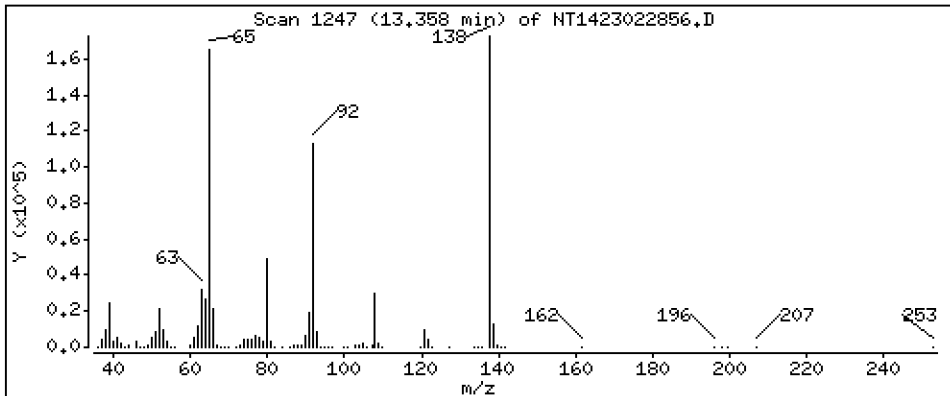
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 12,94 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

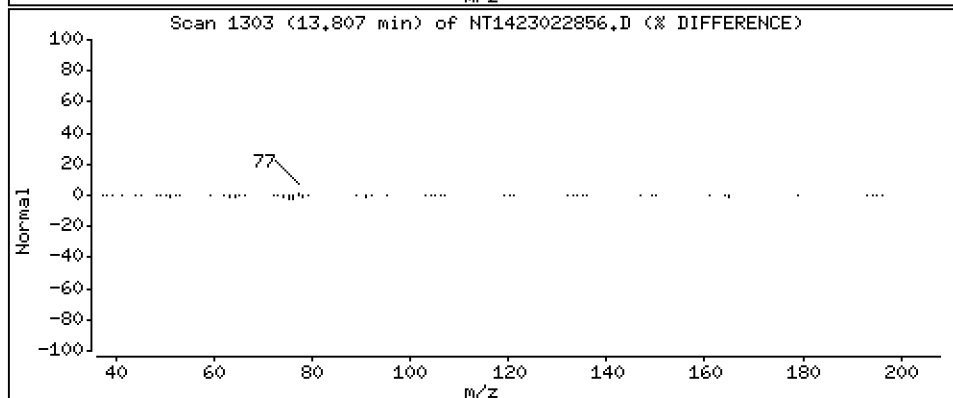
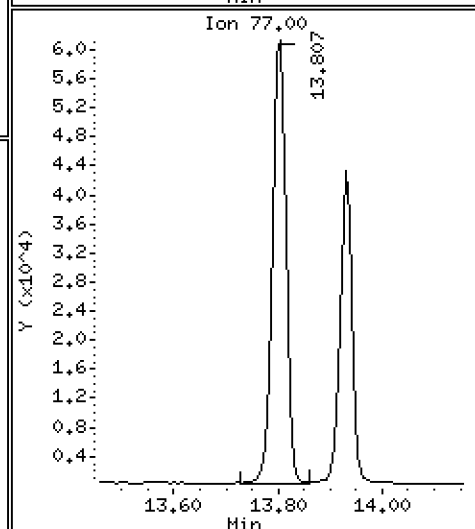
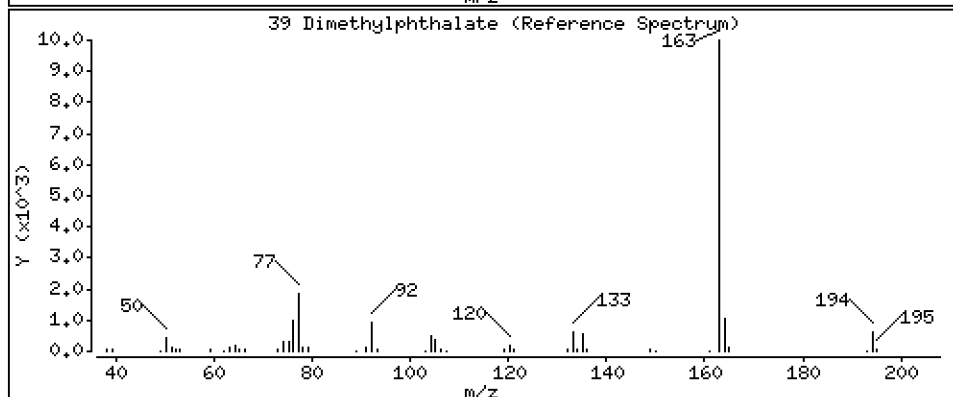
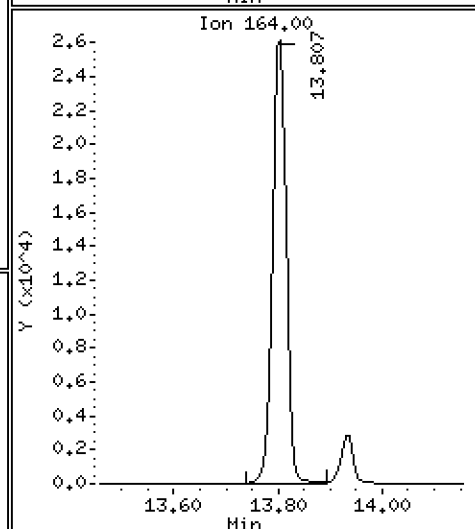
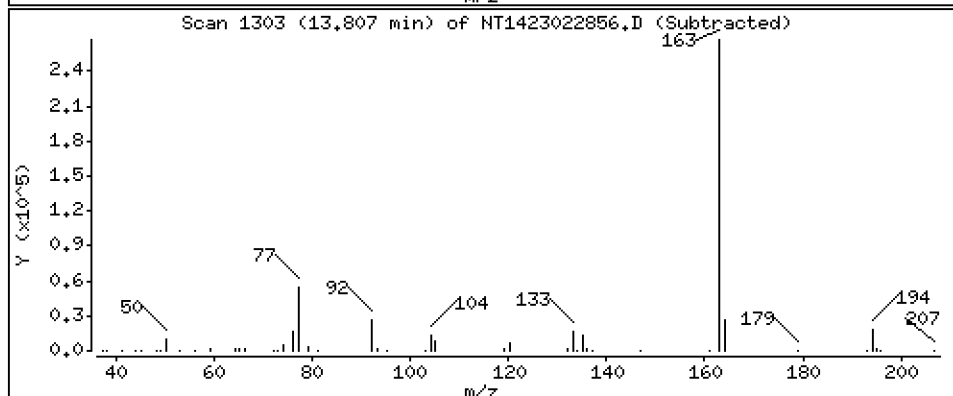
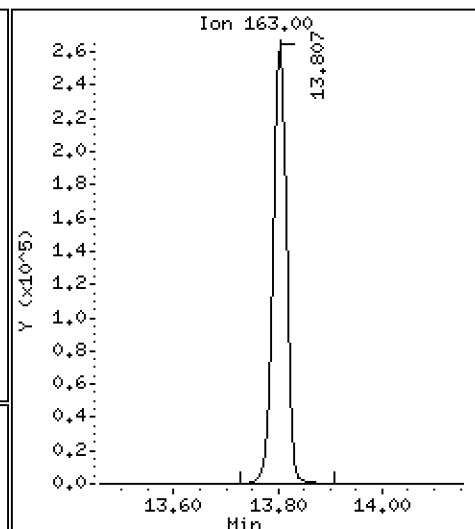
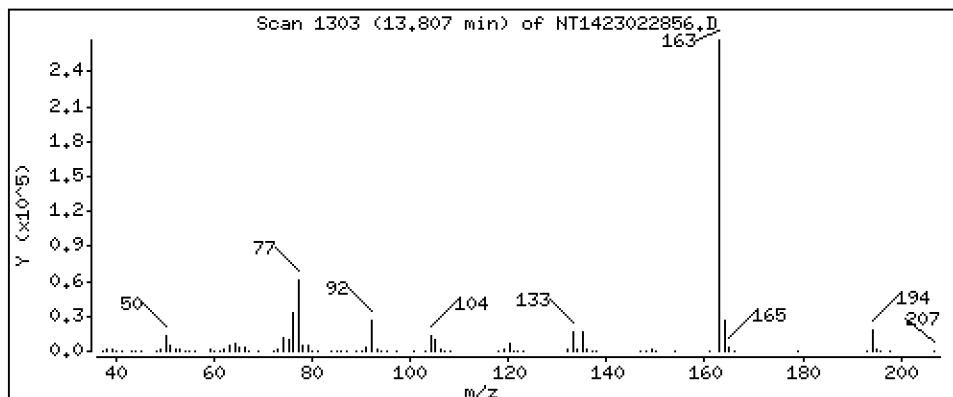
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,314 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

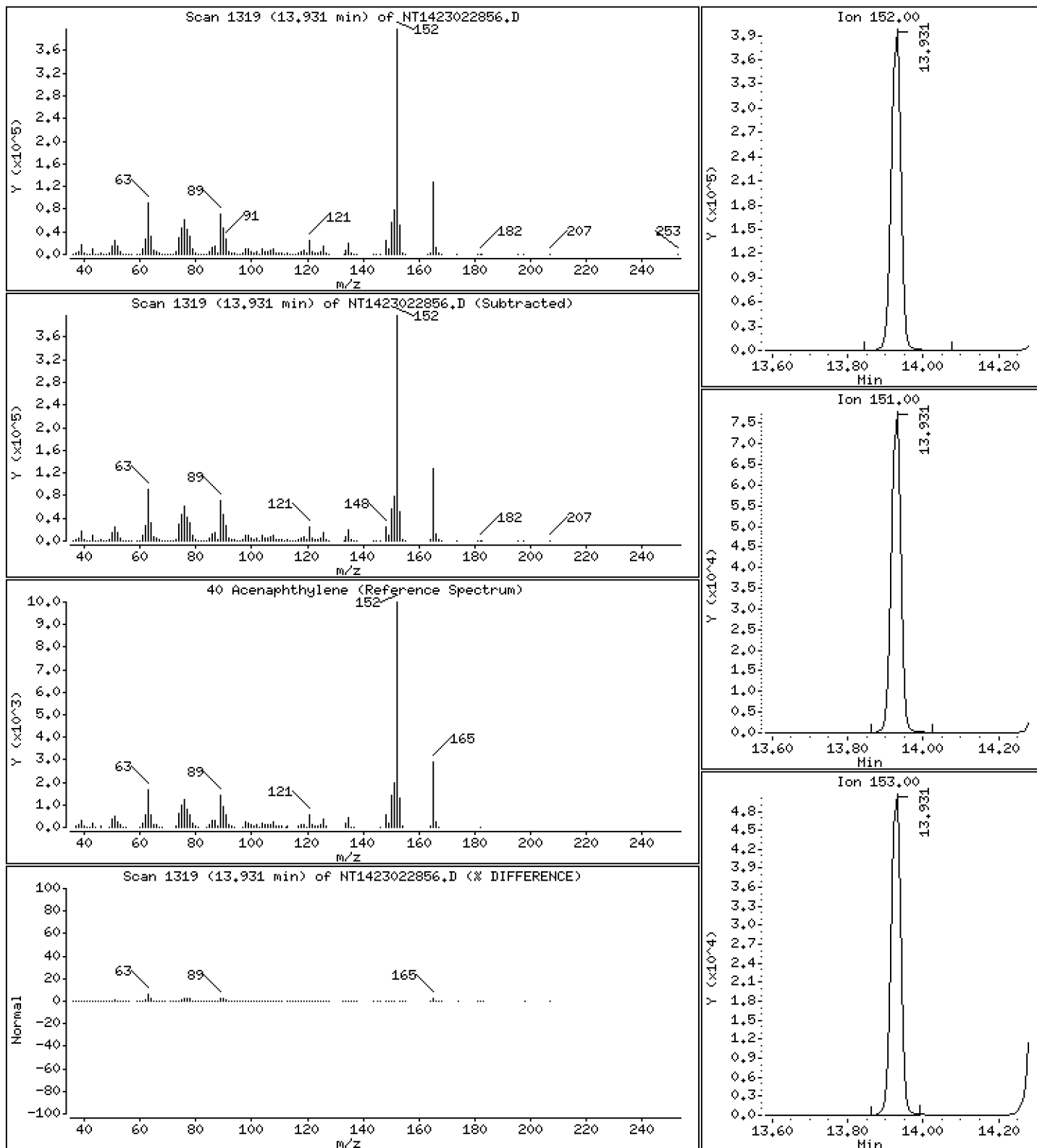
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 5,320 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

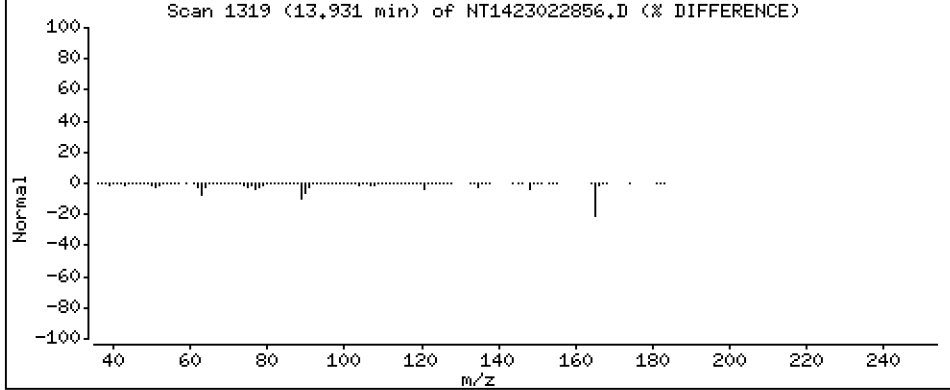
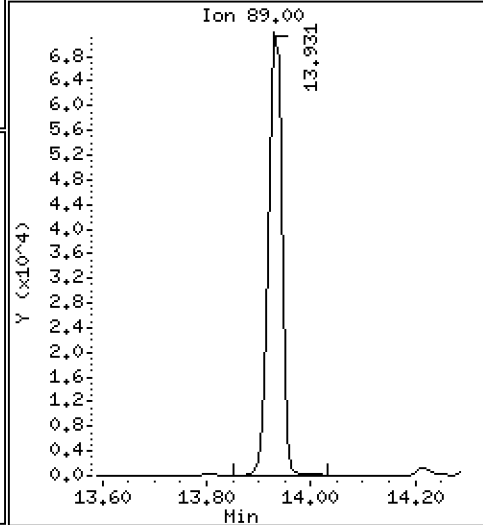
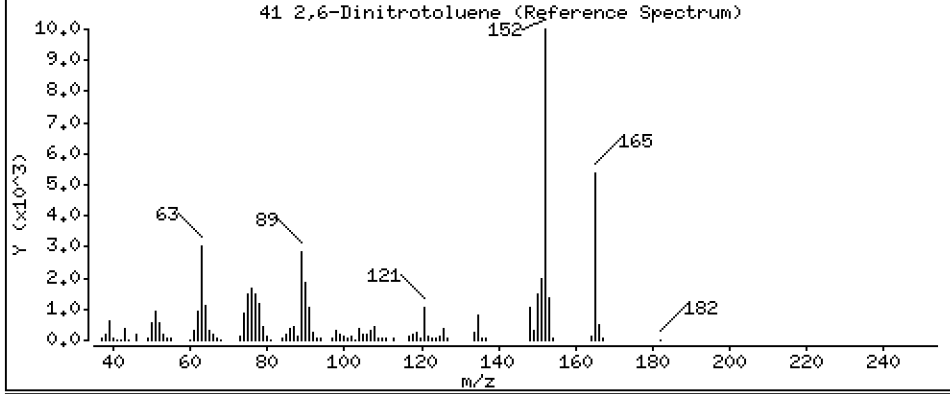
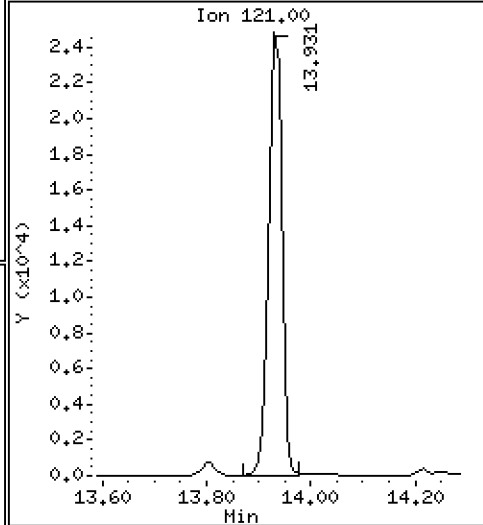
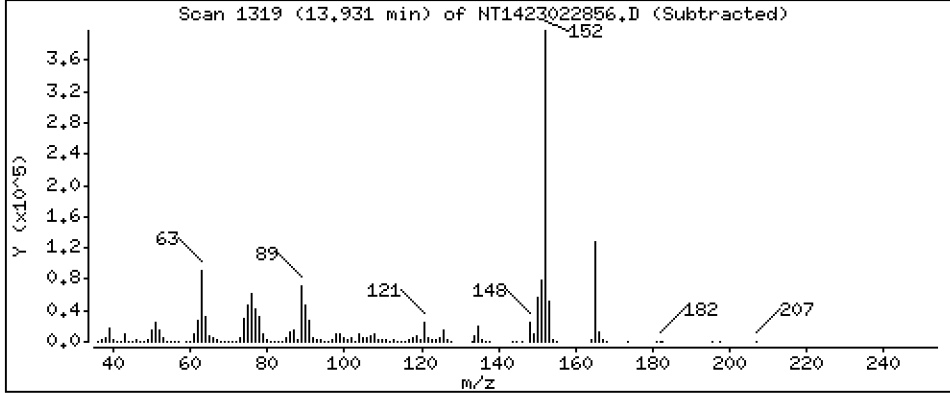
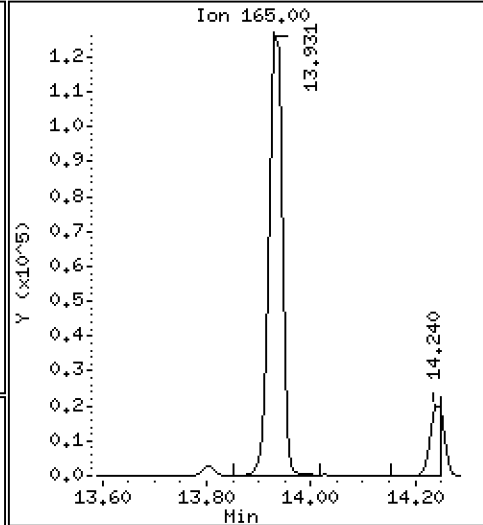
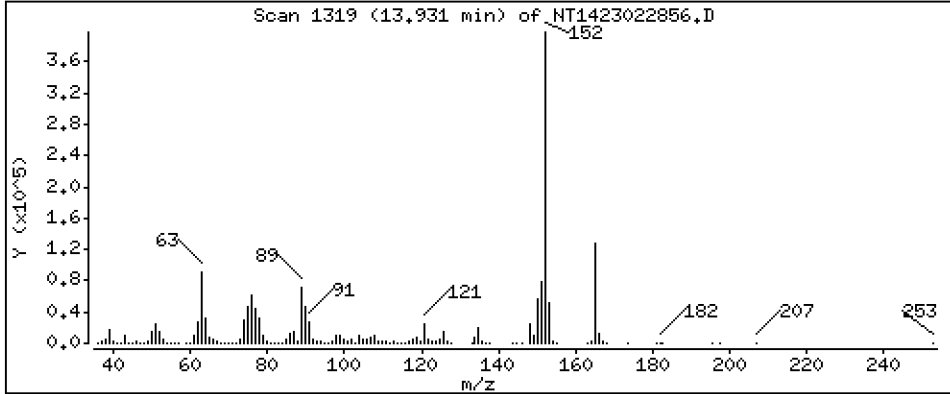
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 10,66 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

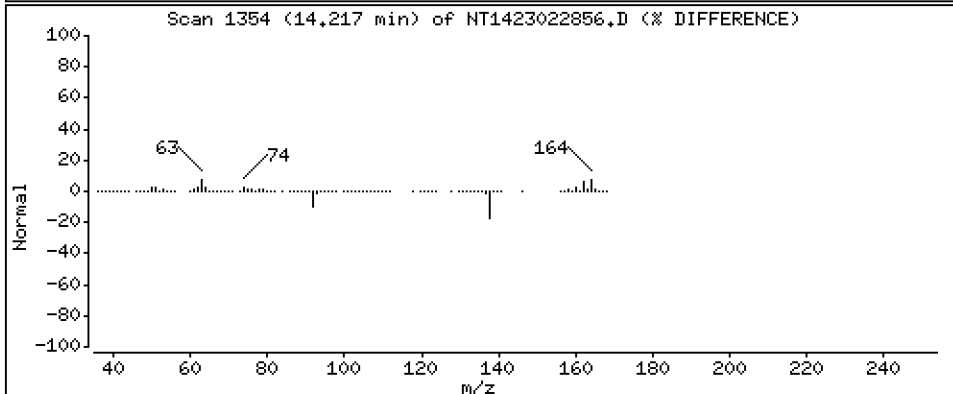
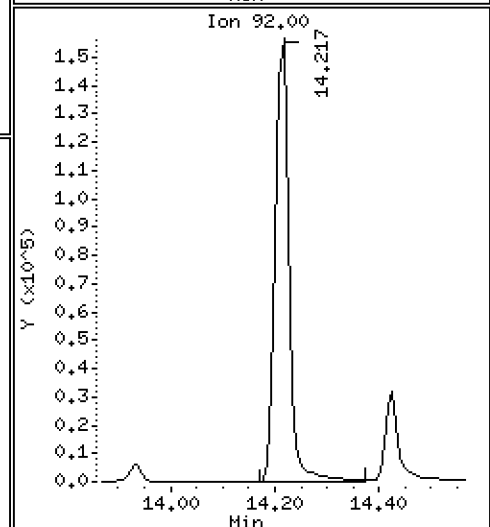
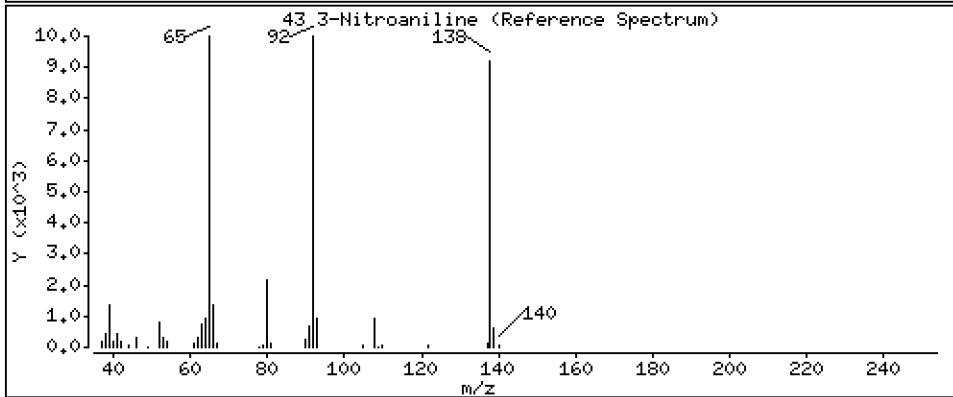
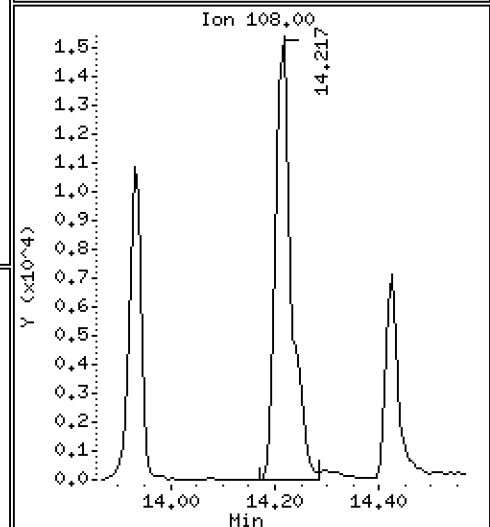
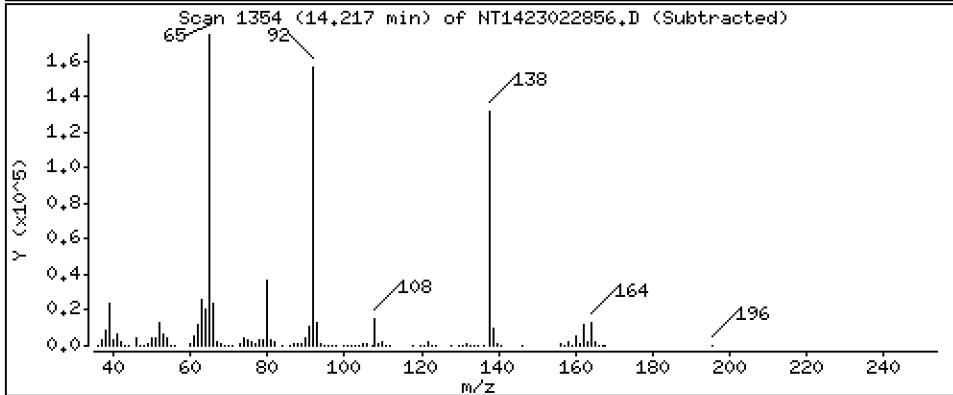
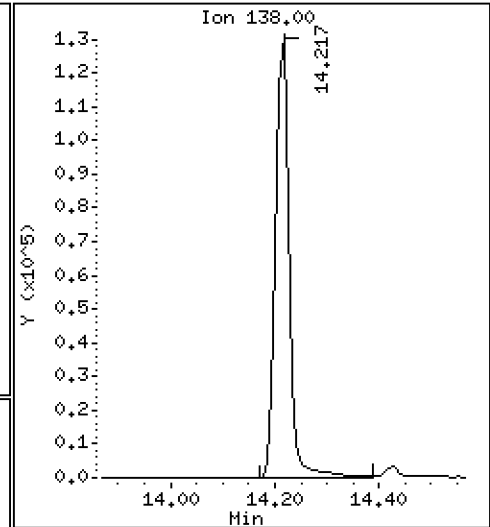
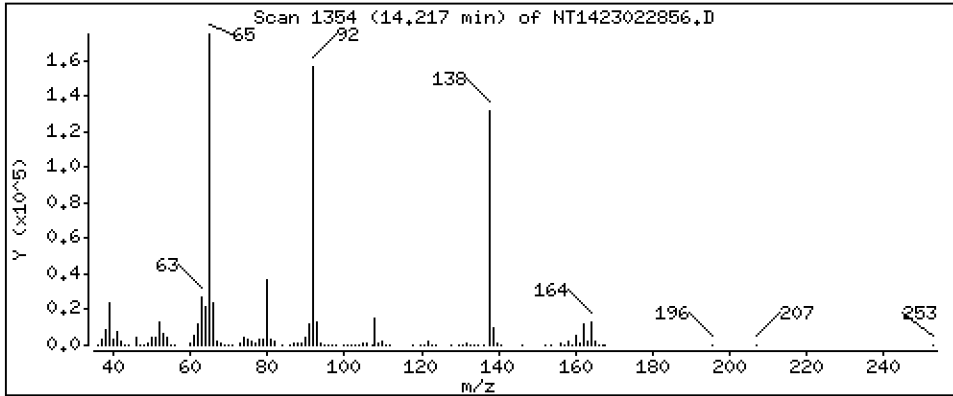
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 11,06 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

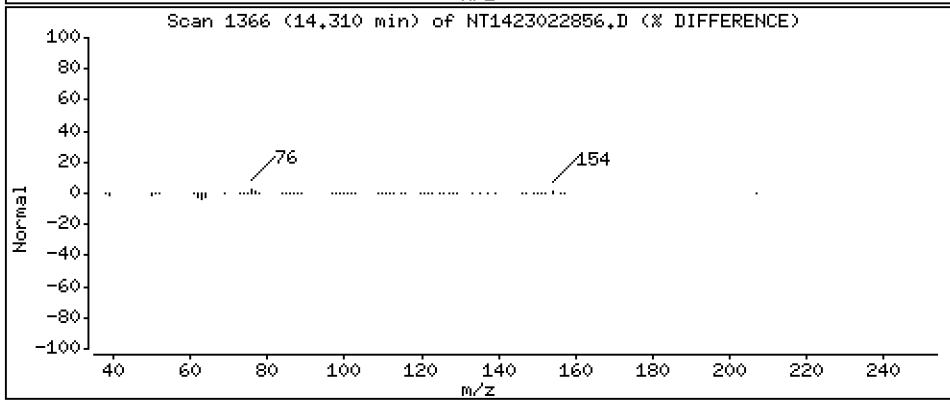
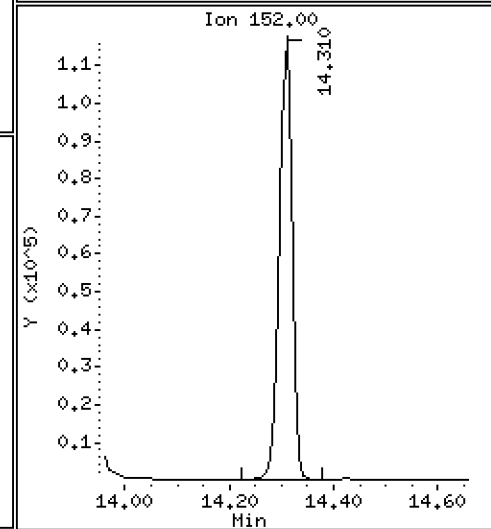
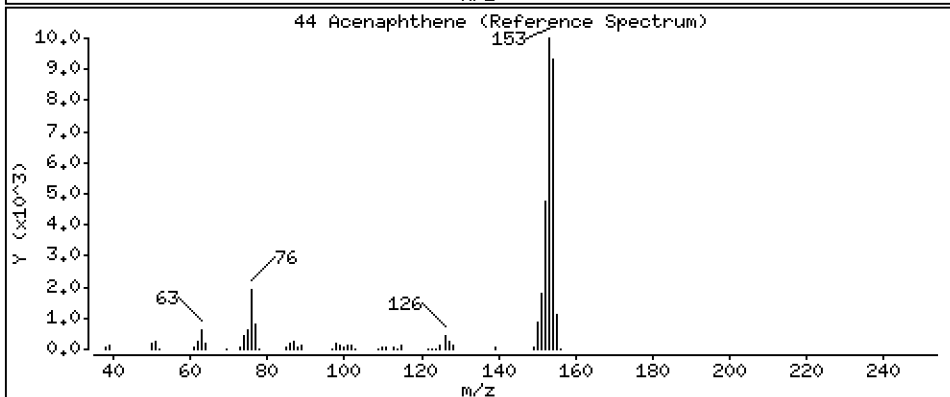
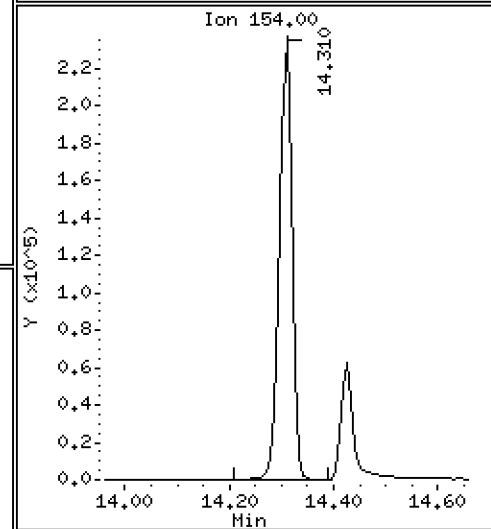
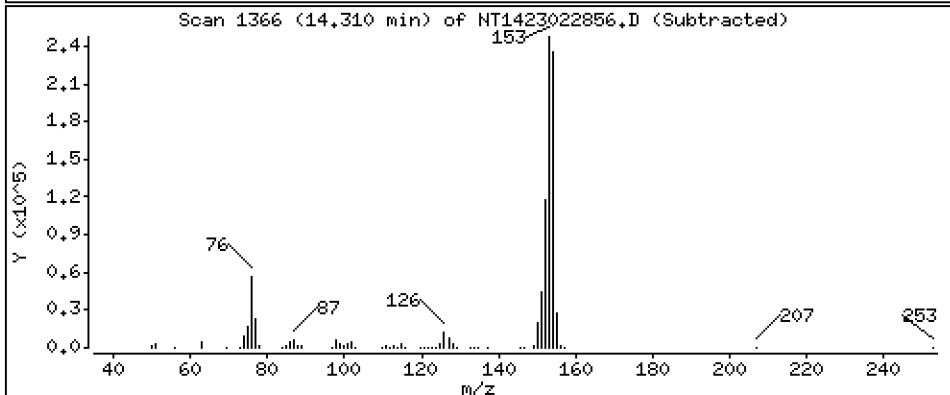
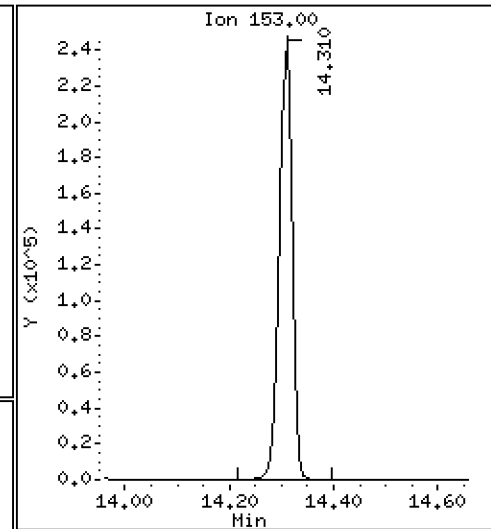
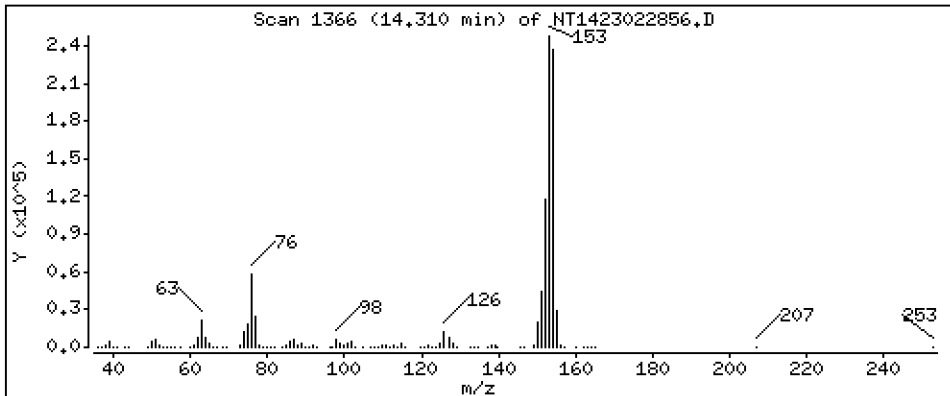
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,998 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

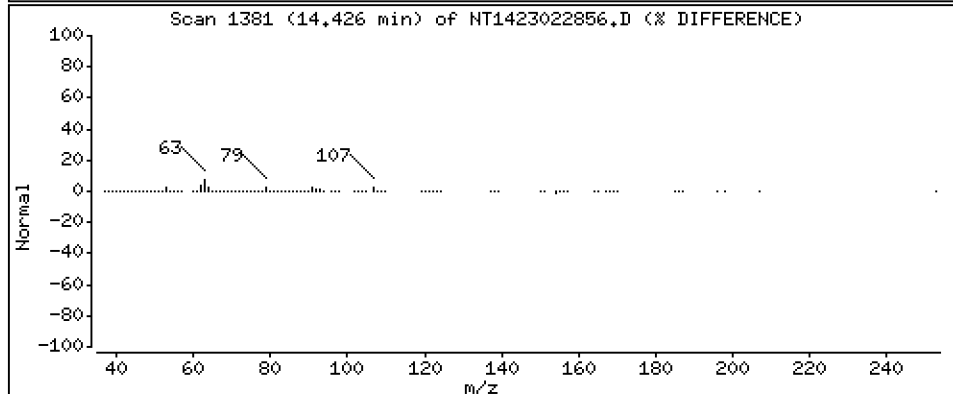
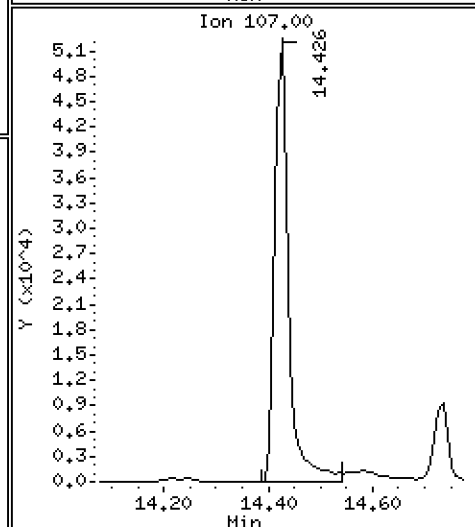
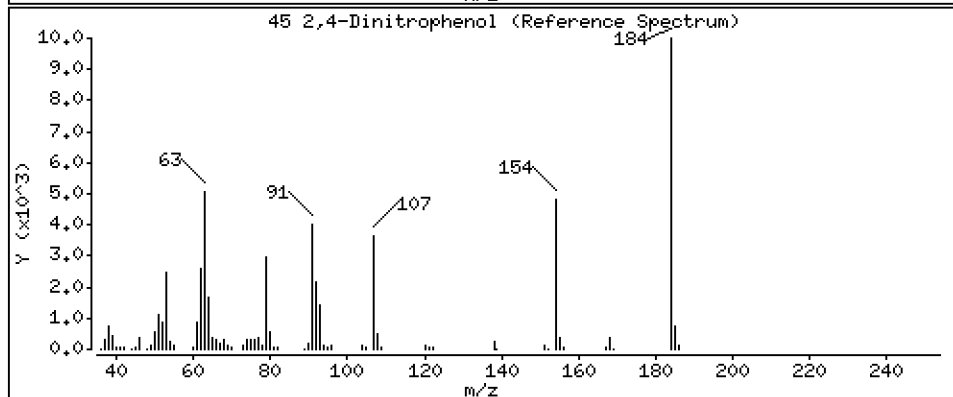
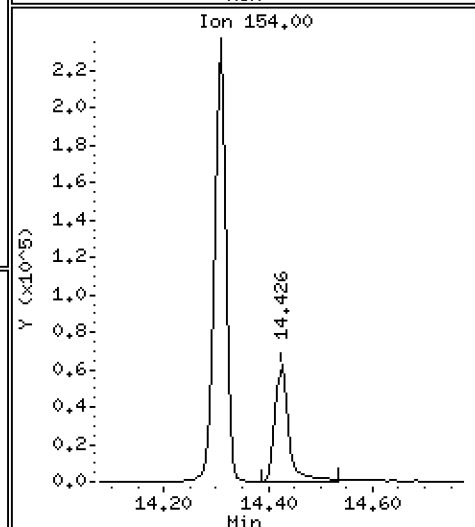
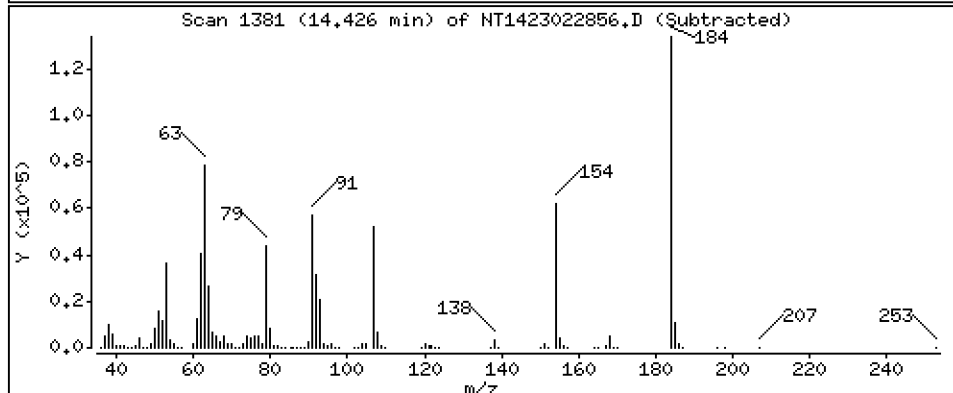
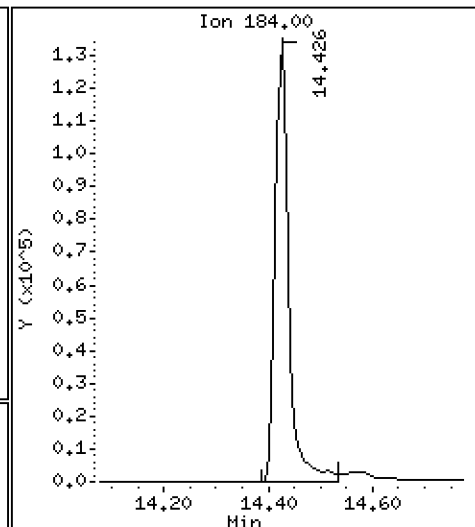
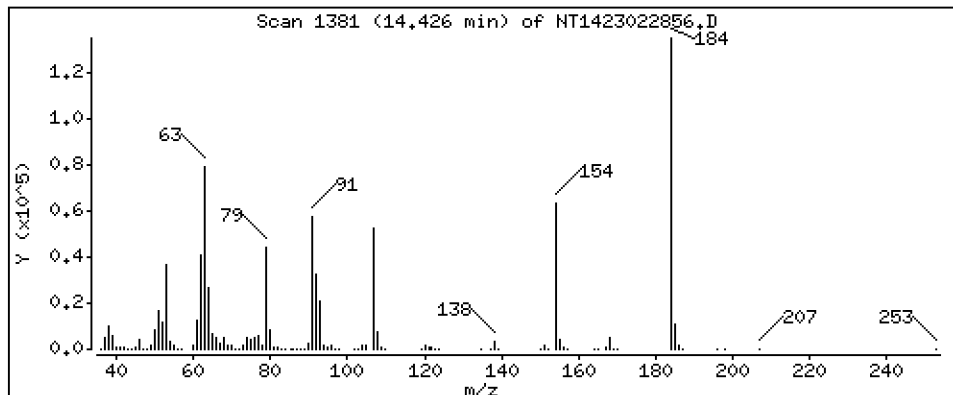
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 17,65 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

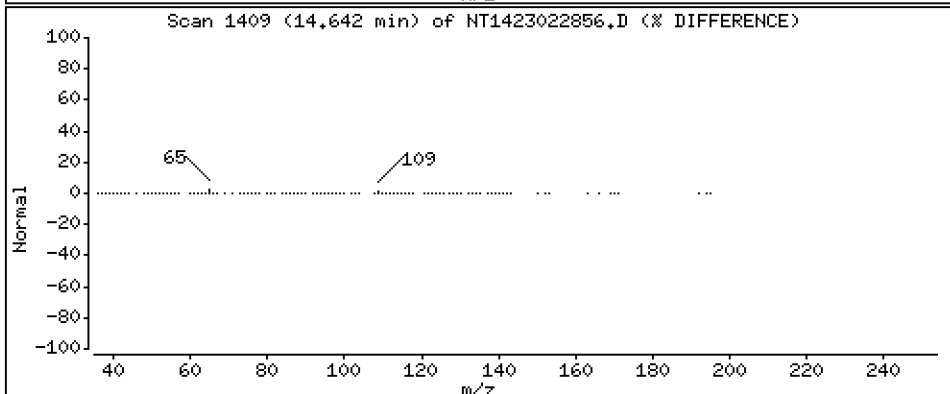
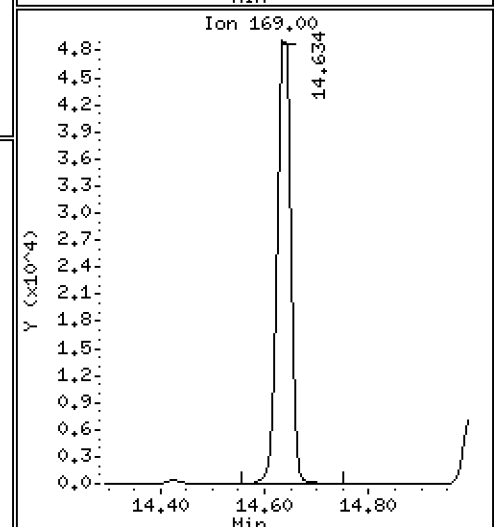
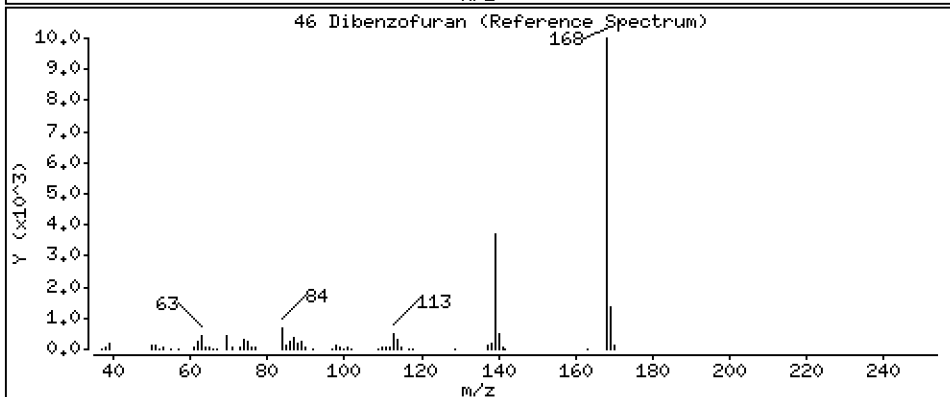
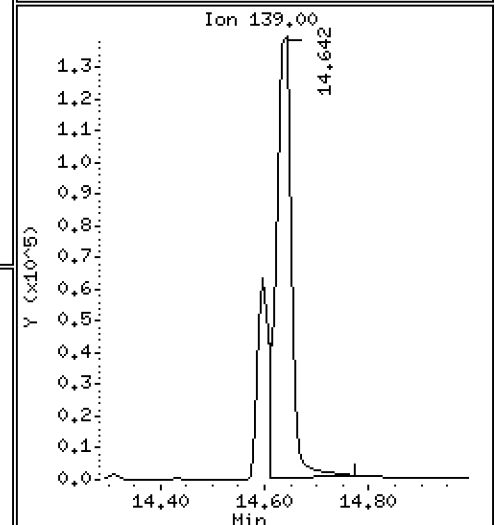
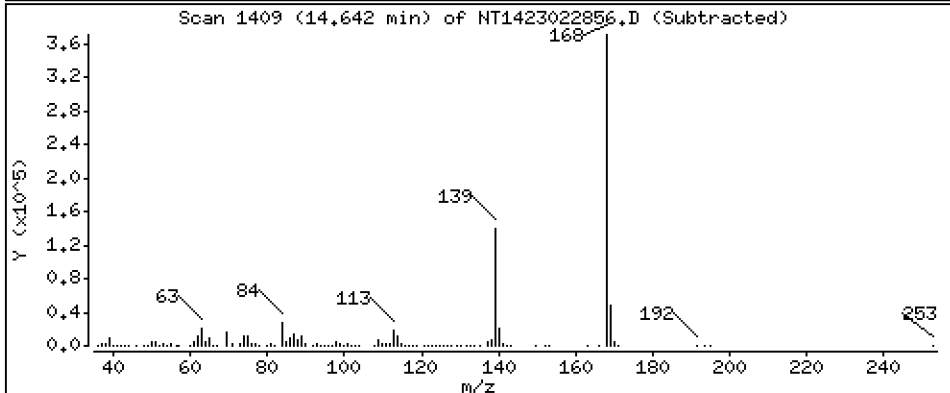
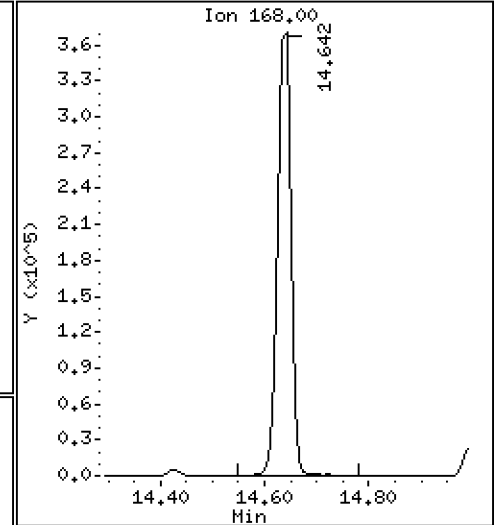
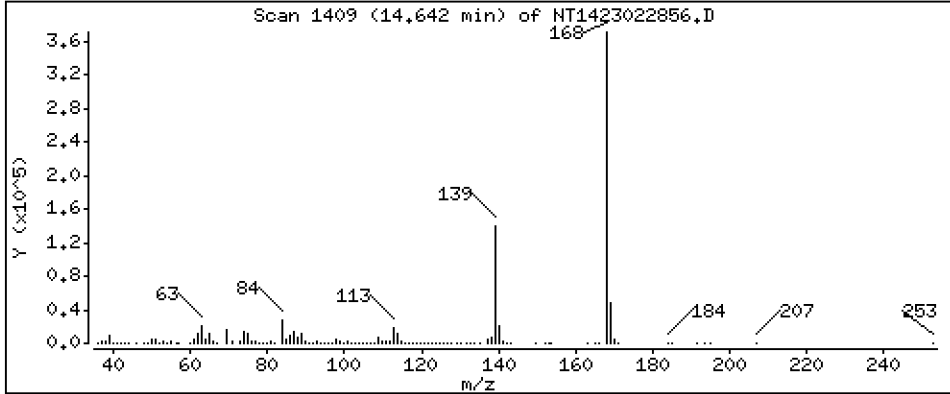
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,965 ug/mL





Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

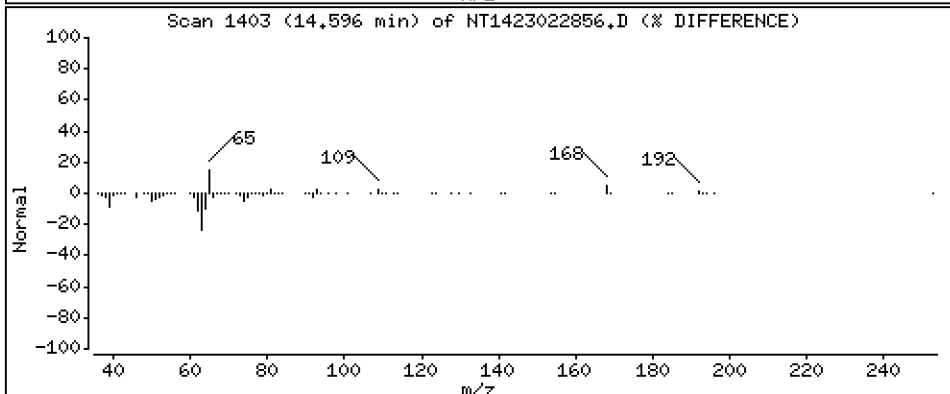
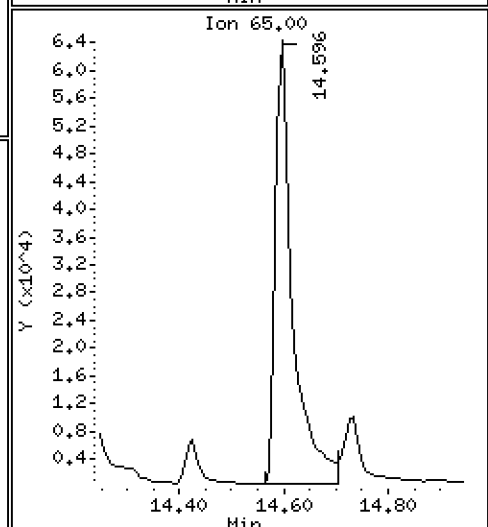
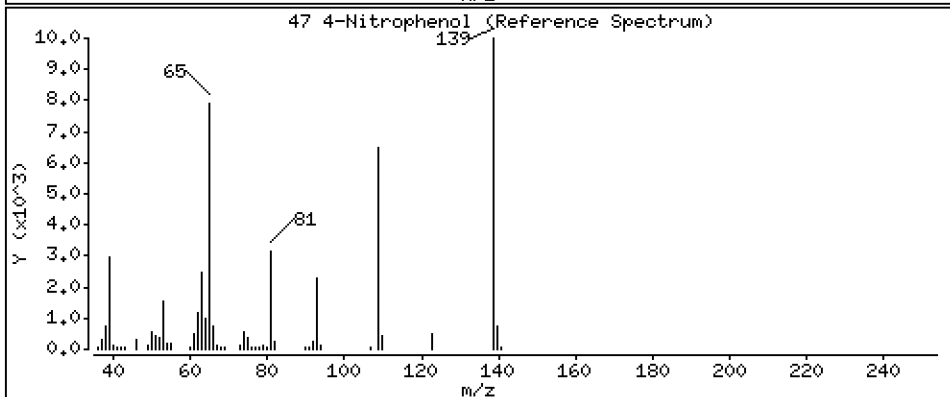
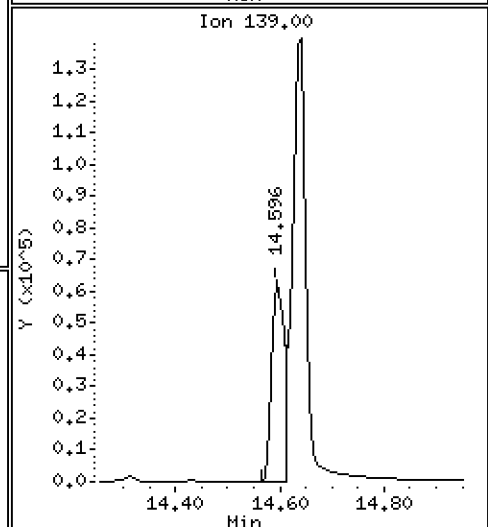
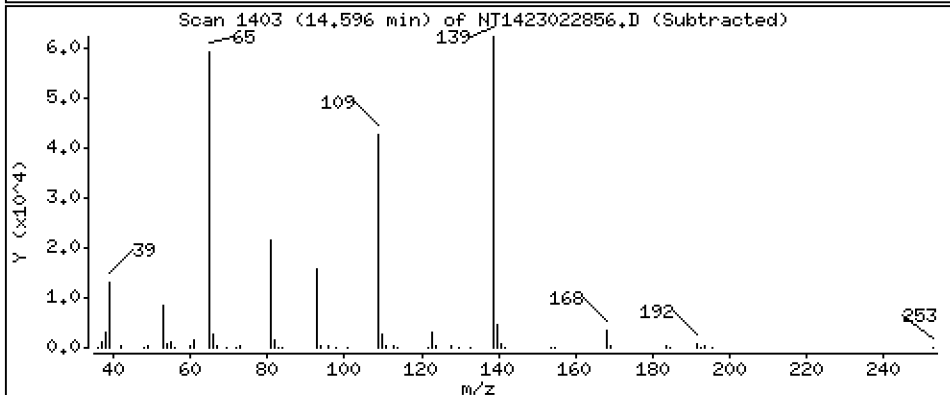
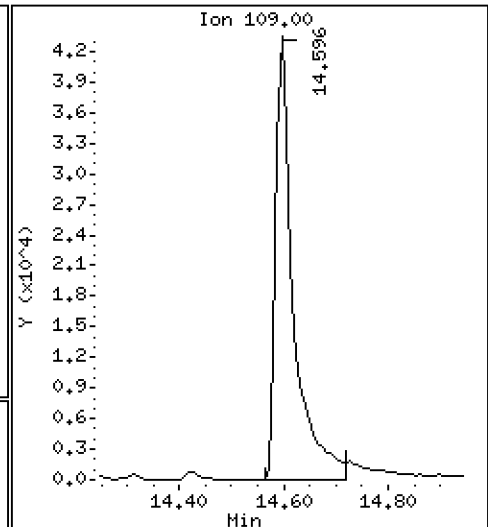
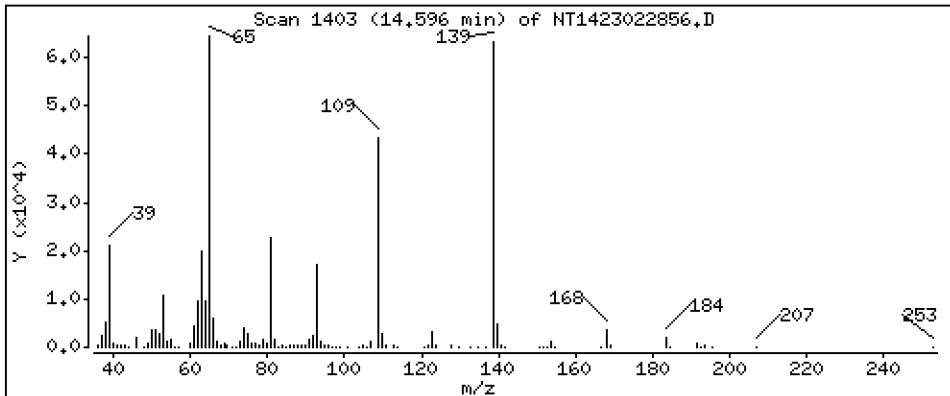
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 9,556 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

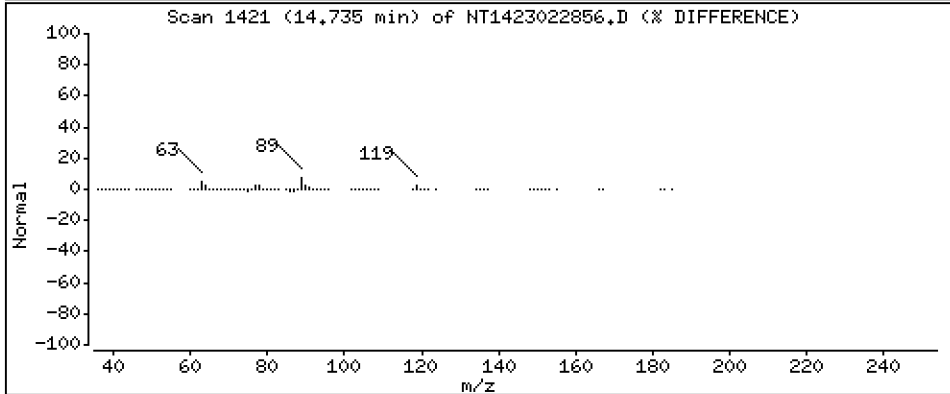
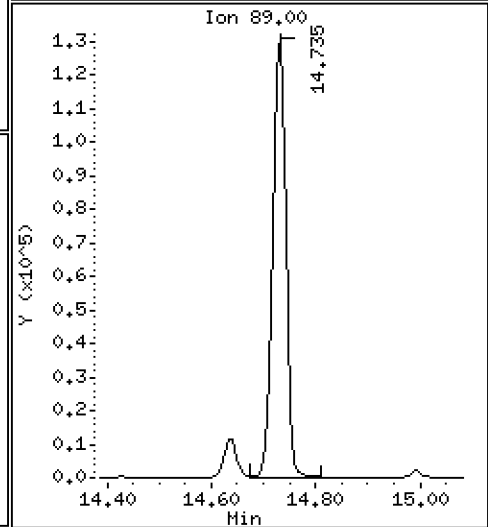
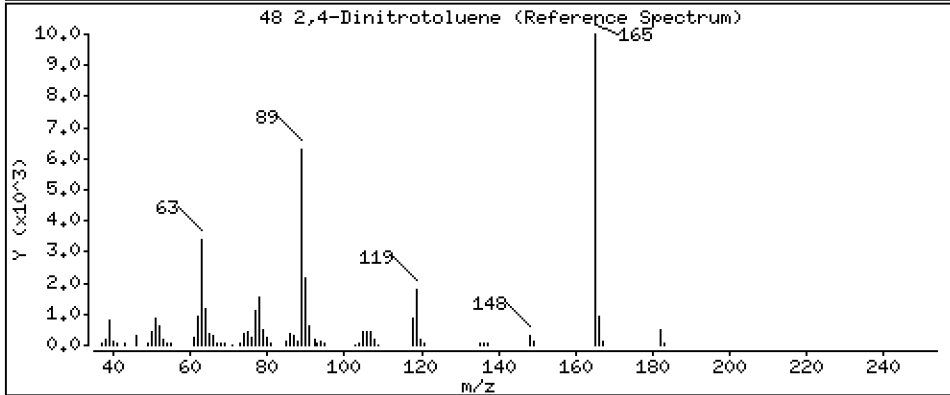
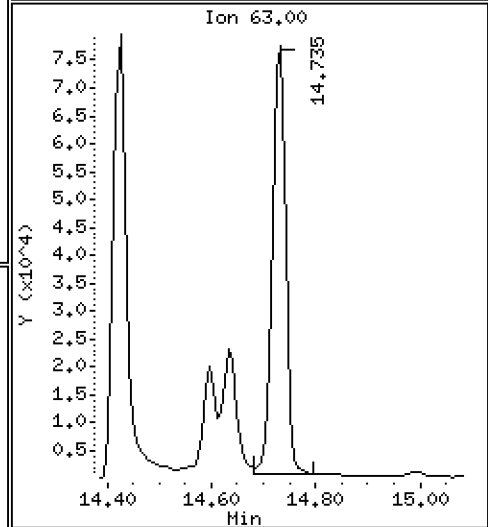
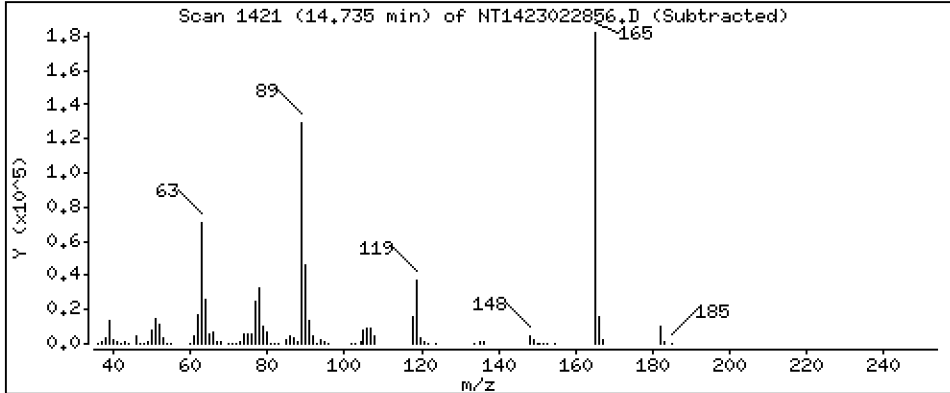
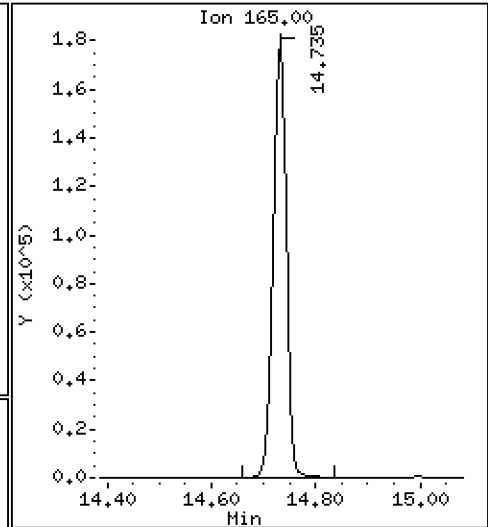
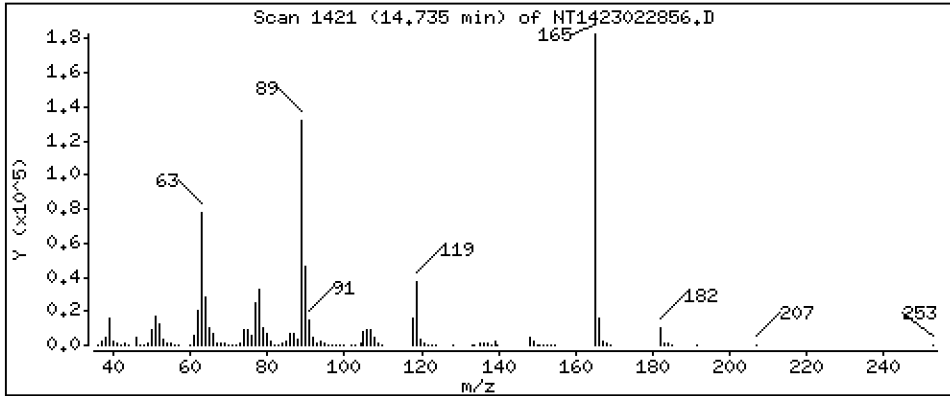
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 10,39 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

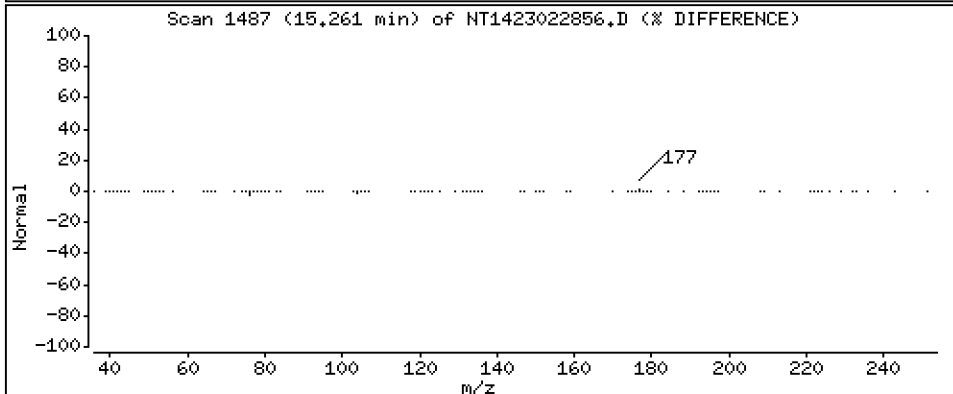
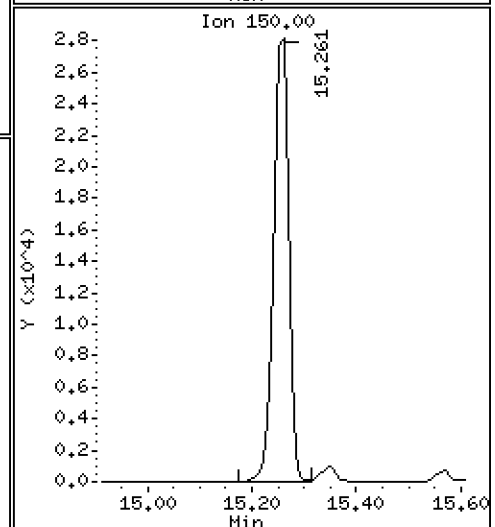
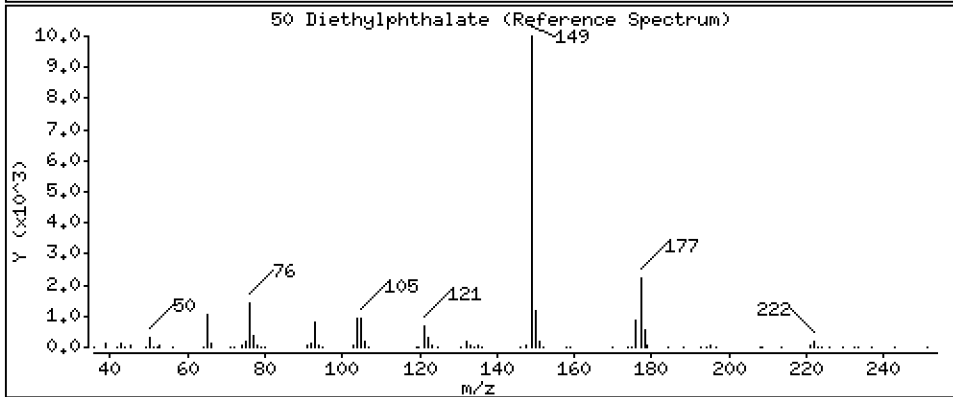
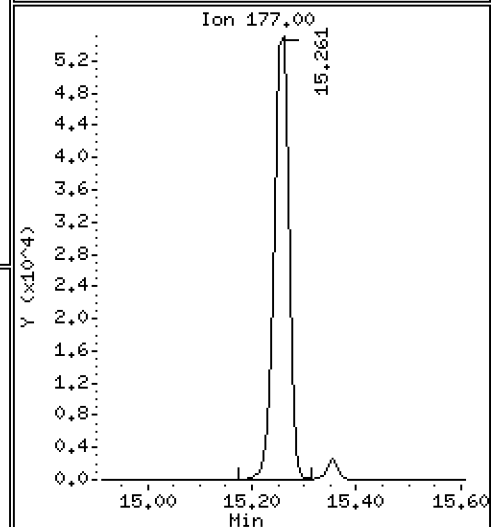
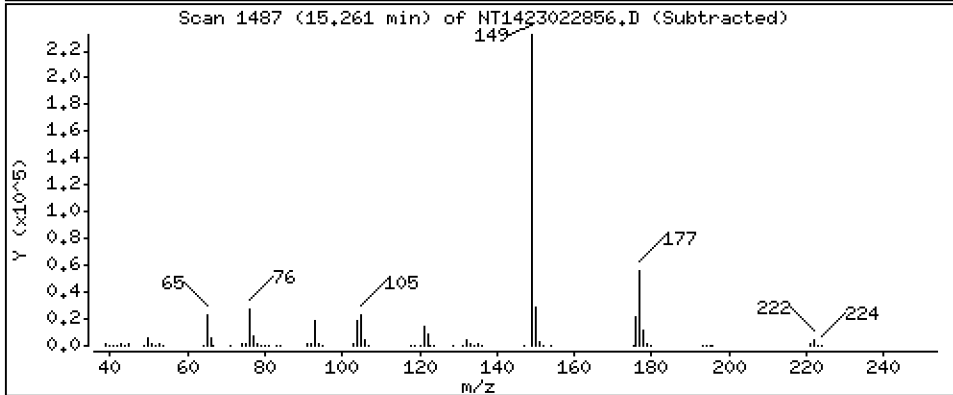
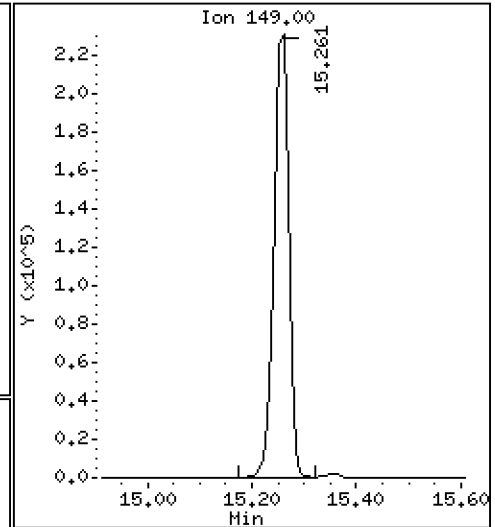
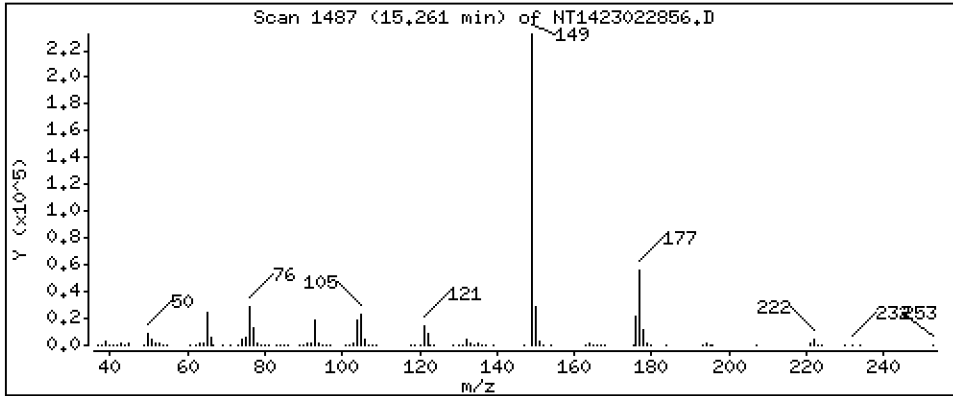
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,505 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

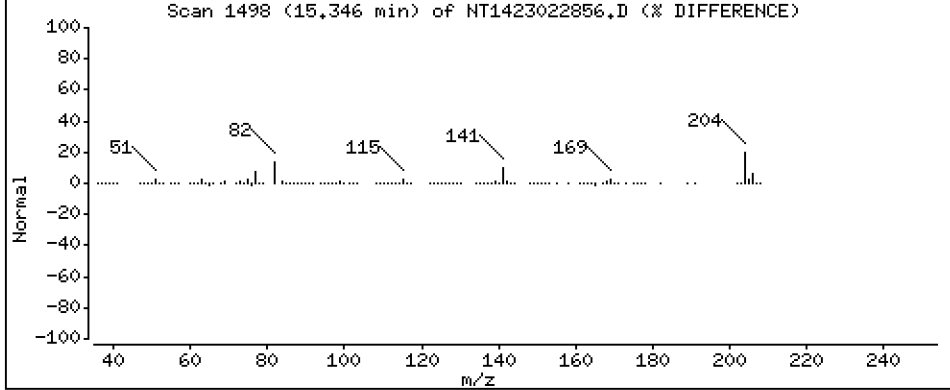
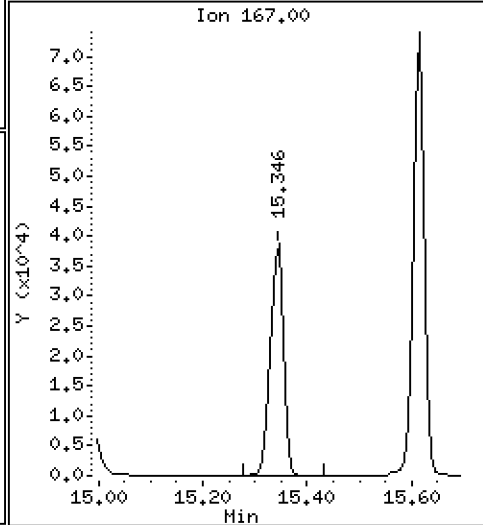
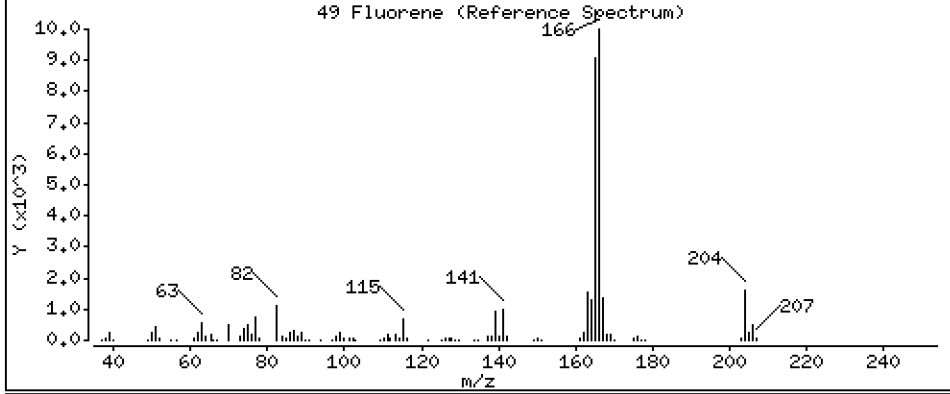
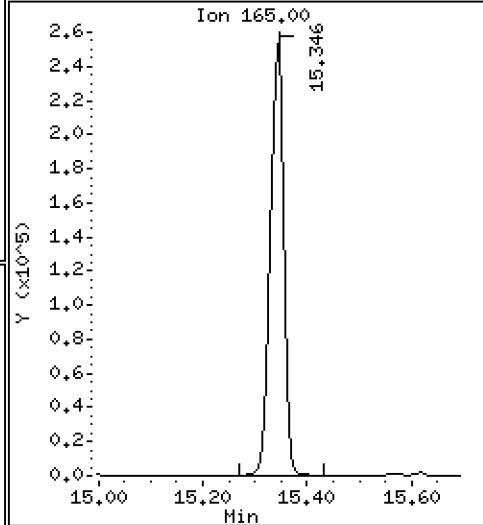
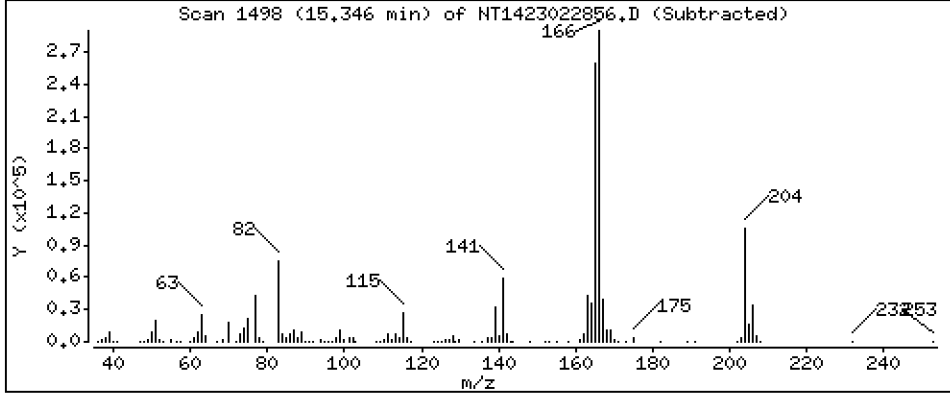
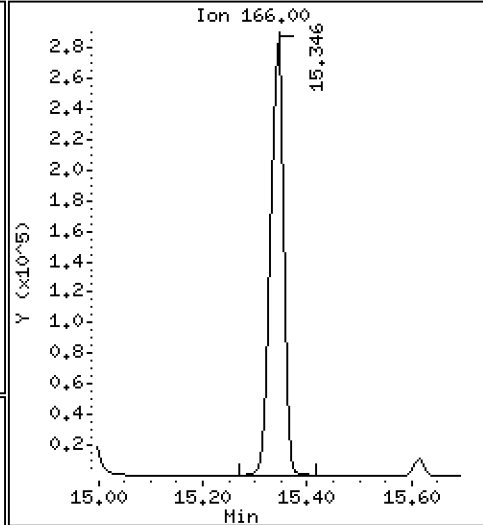
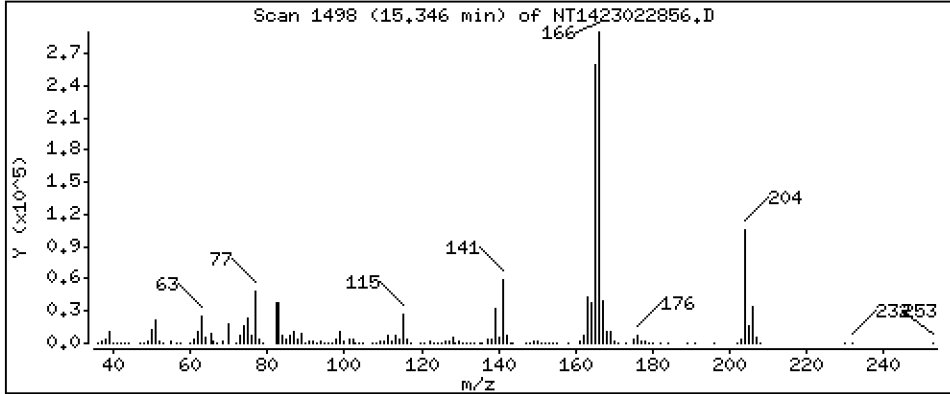
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 5,062 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

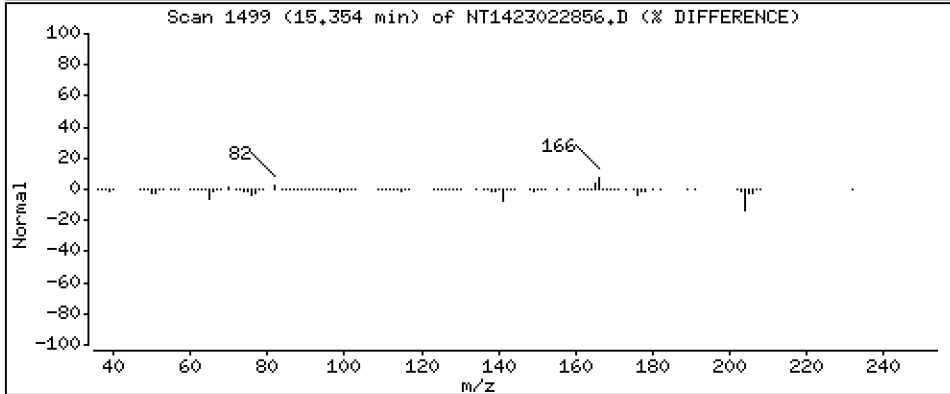
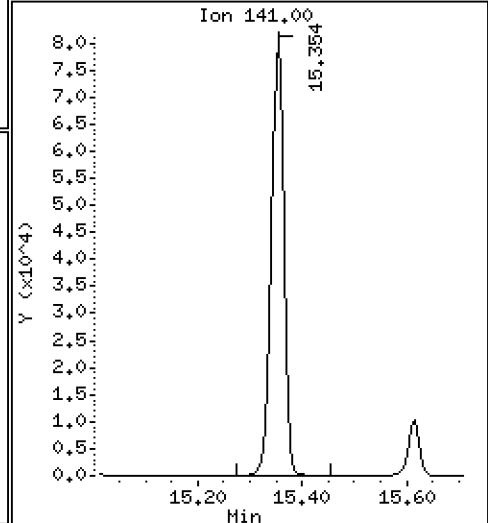
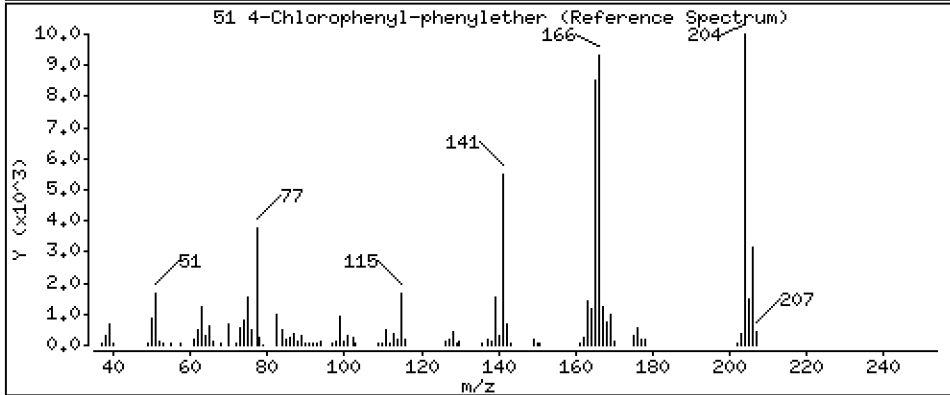
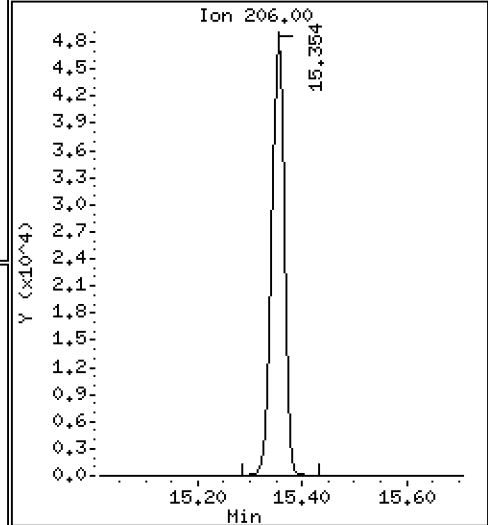
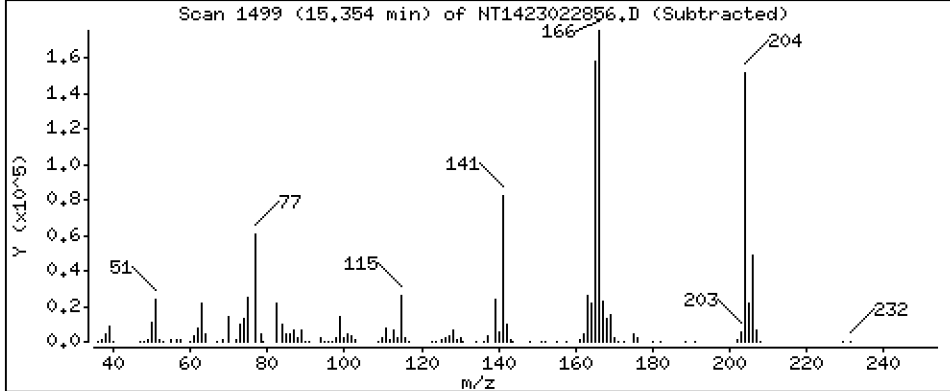
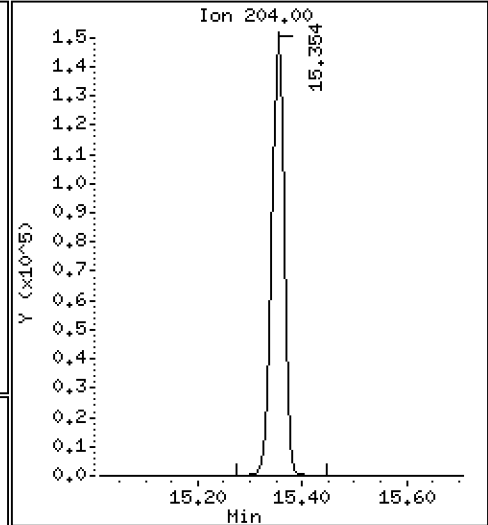
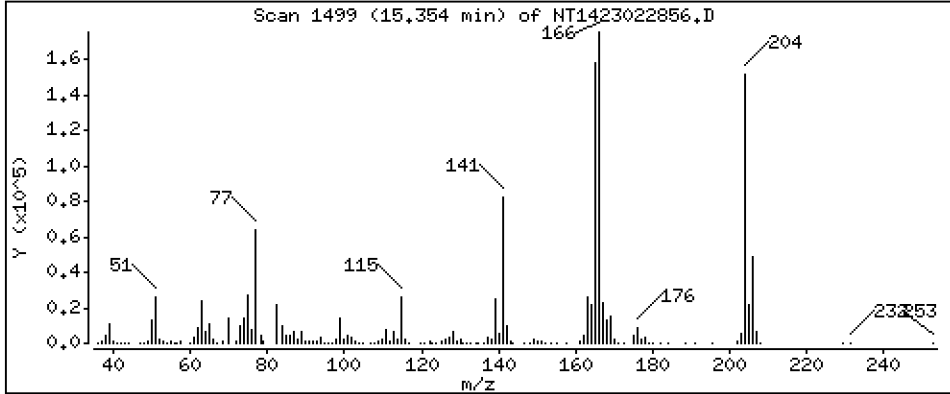
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,592 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

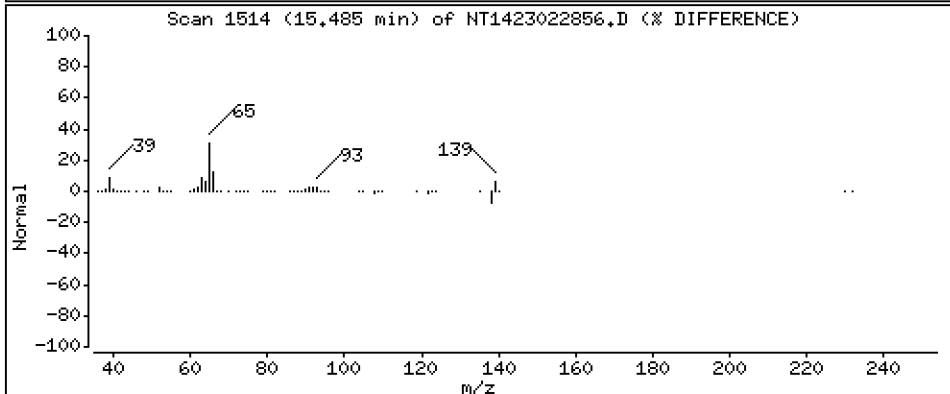
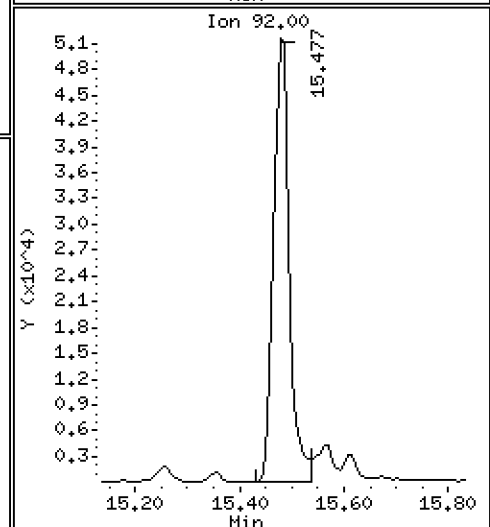
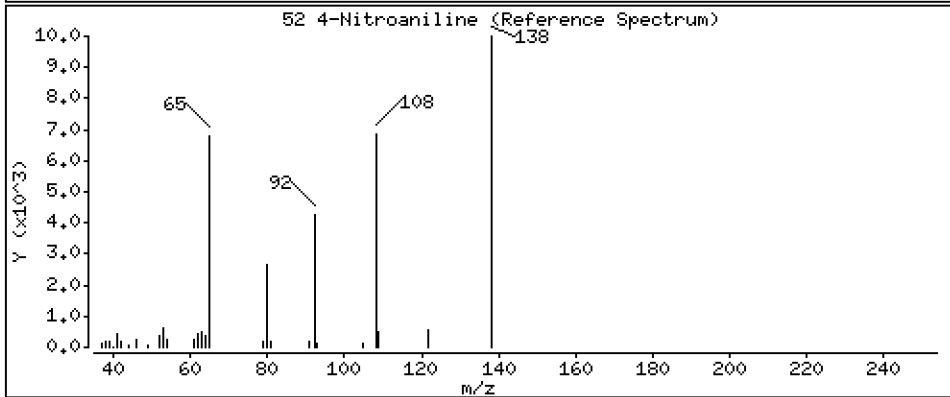
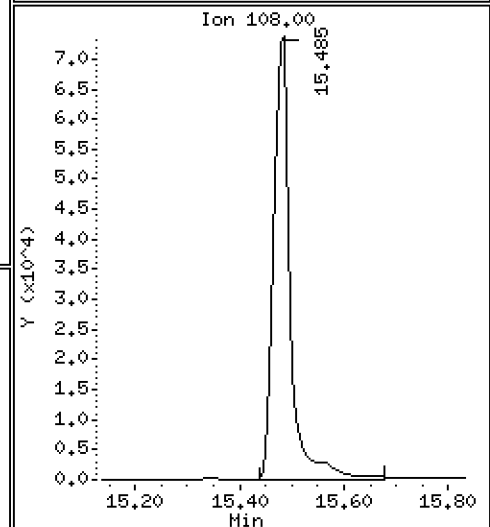
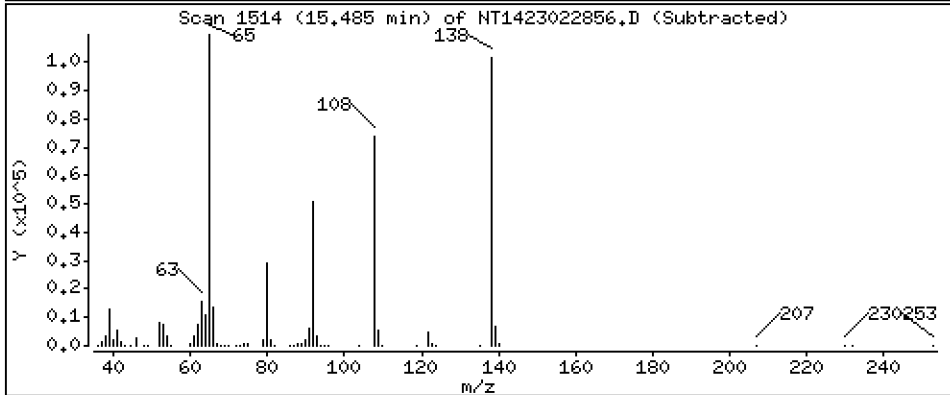
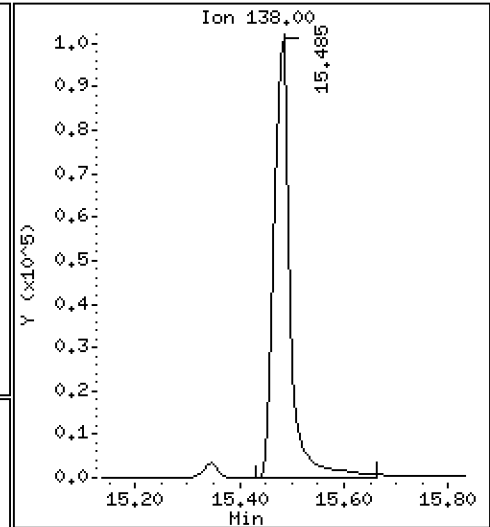
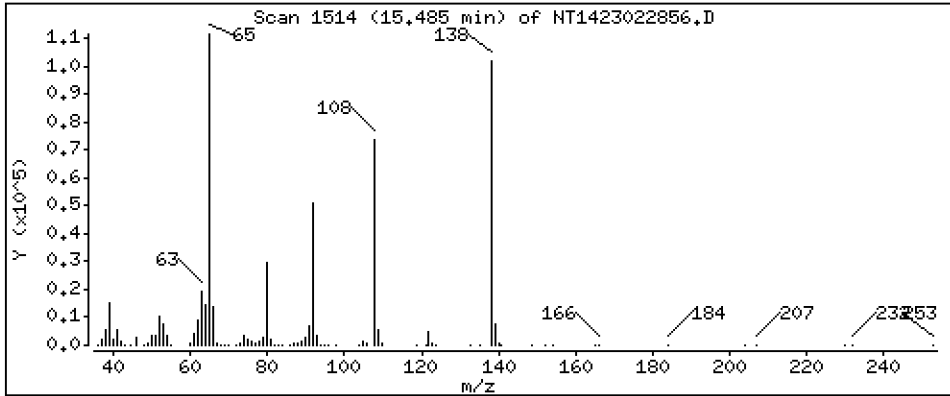
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 10,33 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

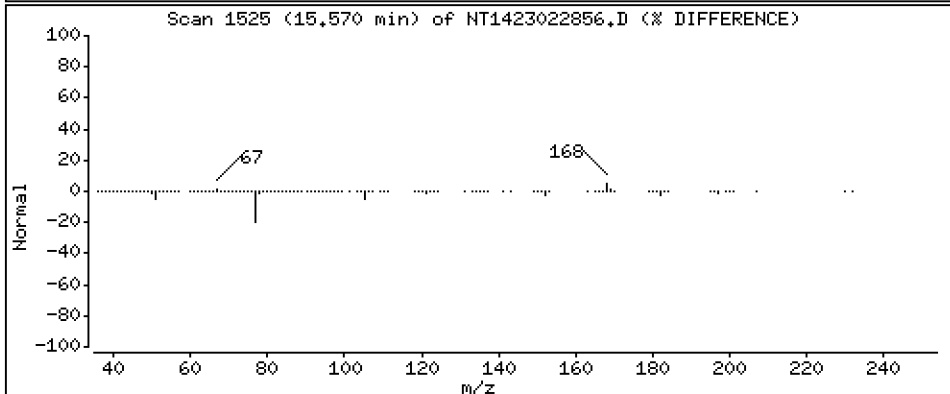
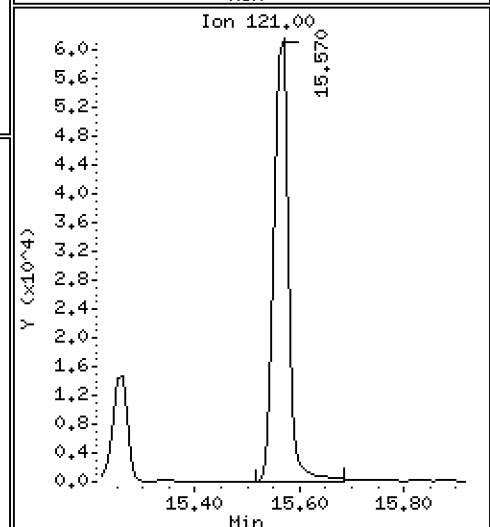
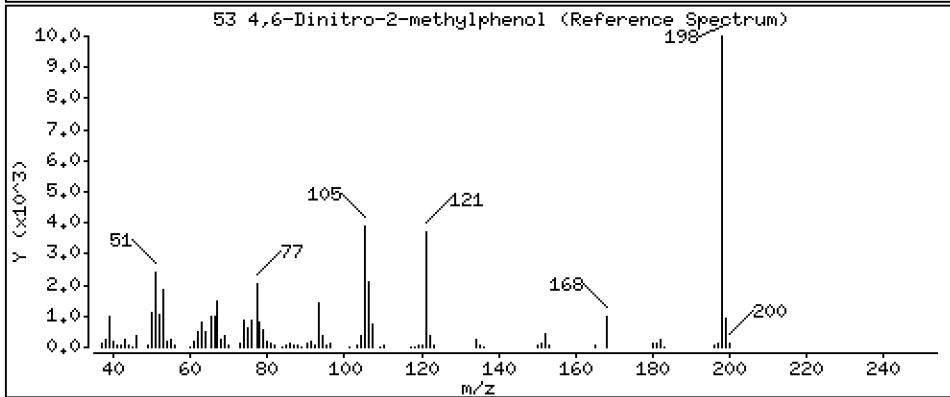
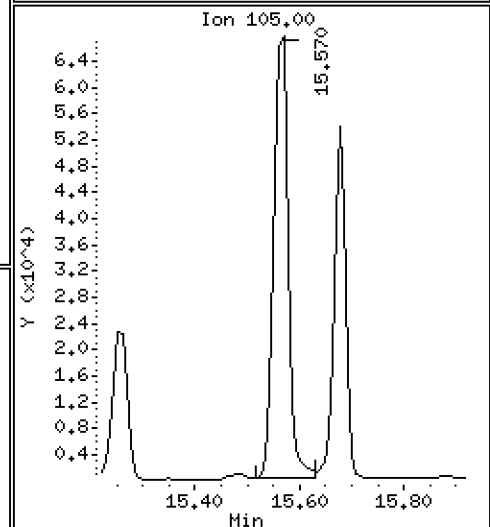
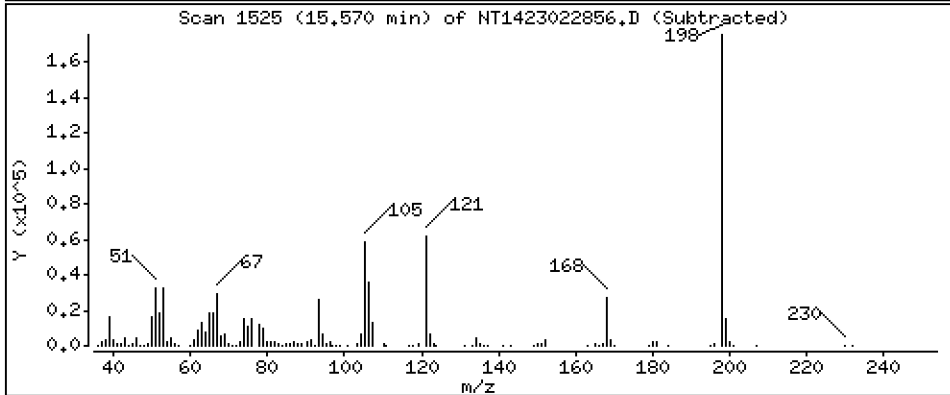
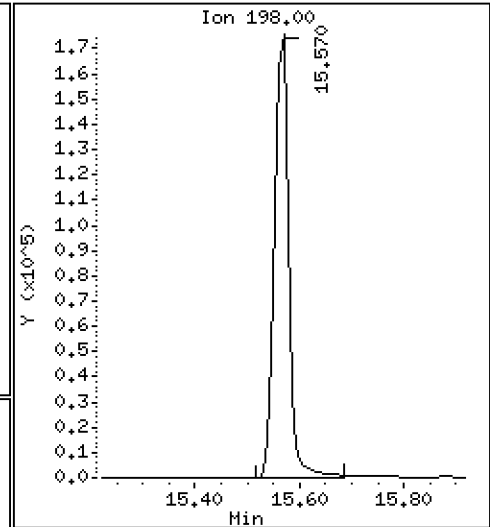
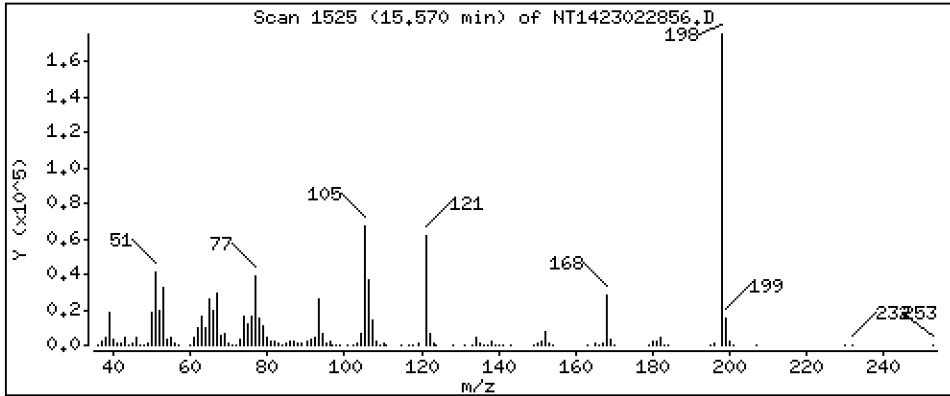
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 18.83 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

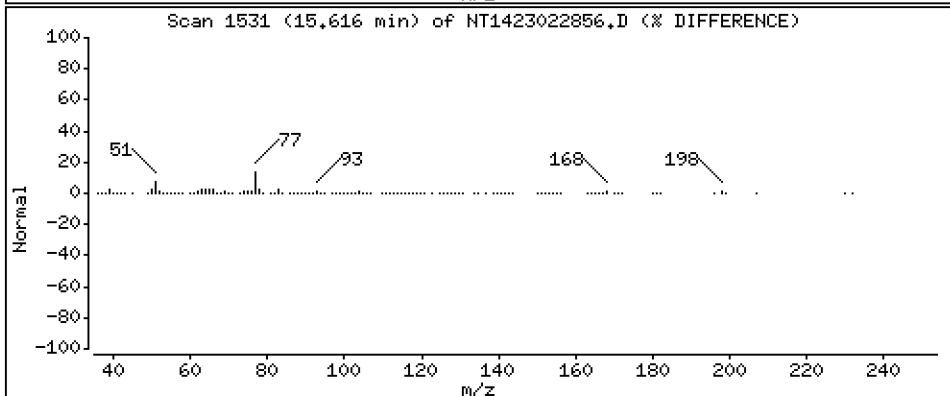
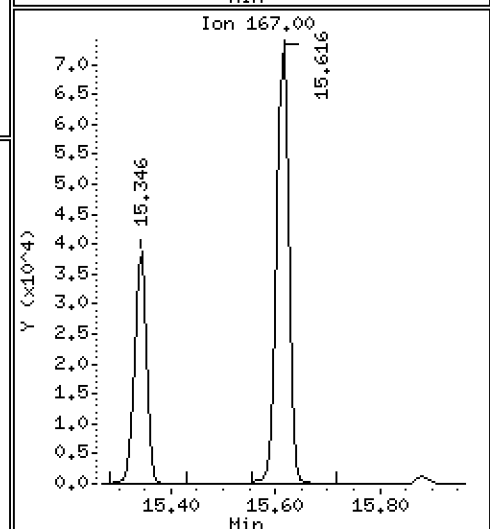
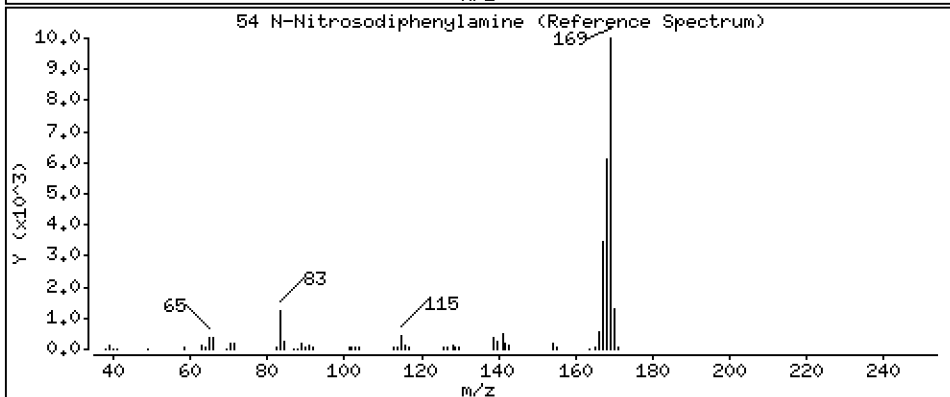
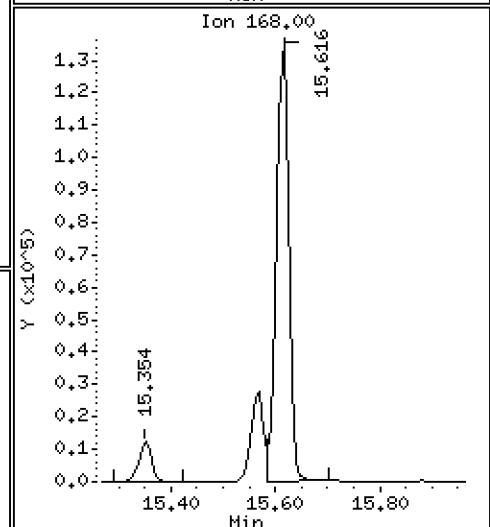
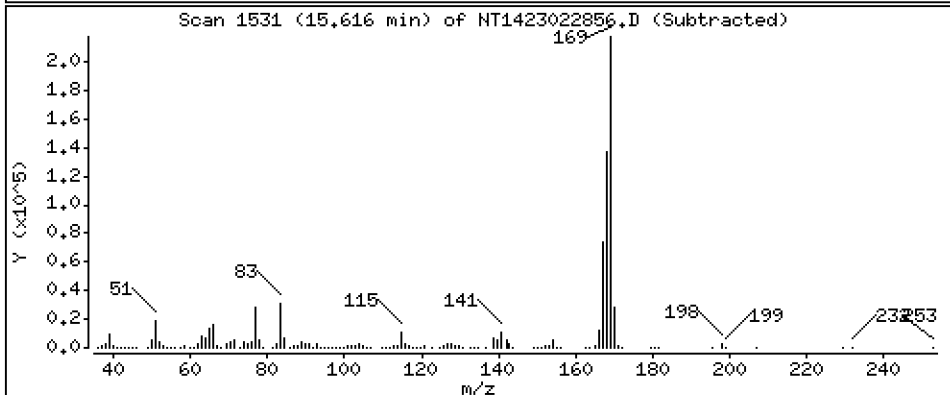
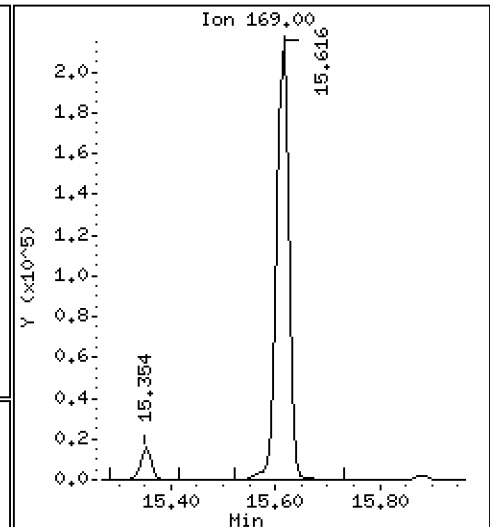
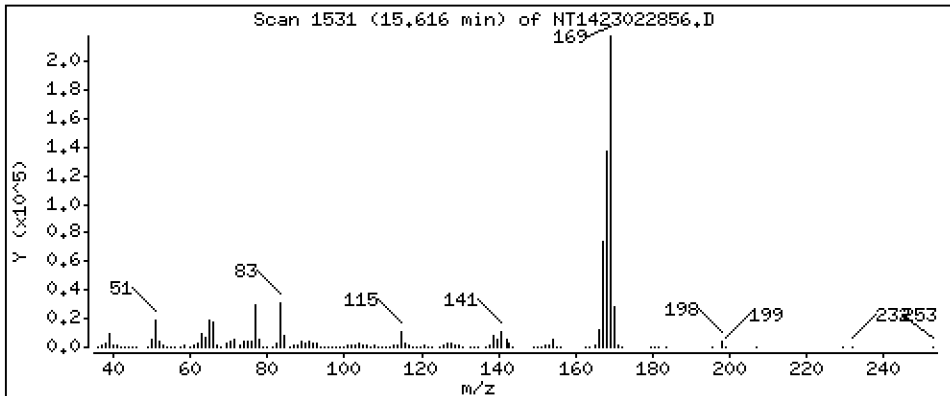
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 5,329 ug/mL





Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

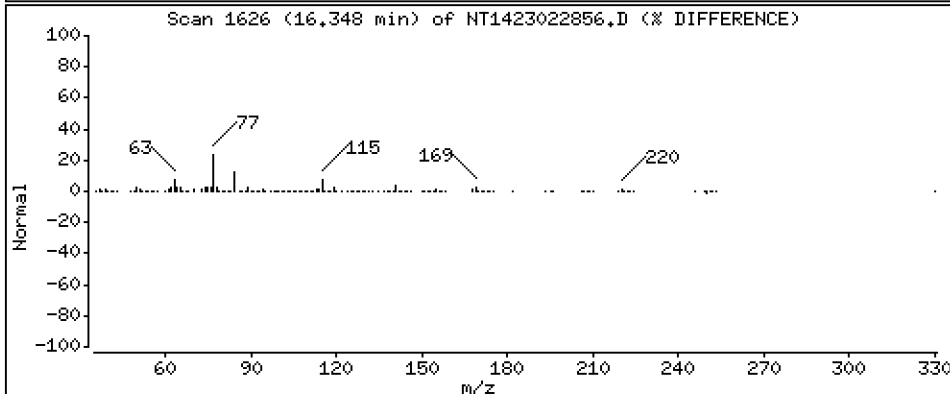
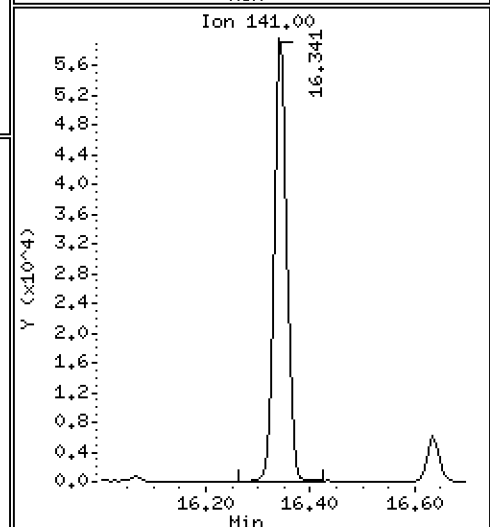
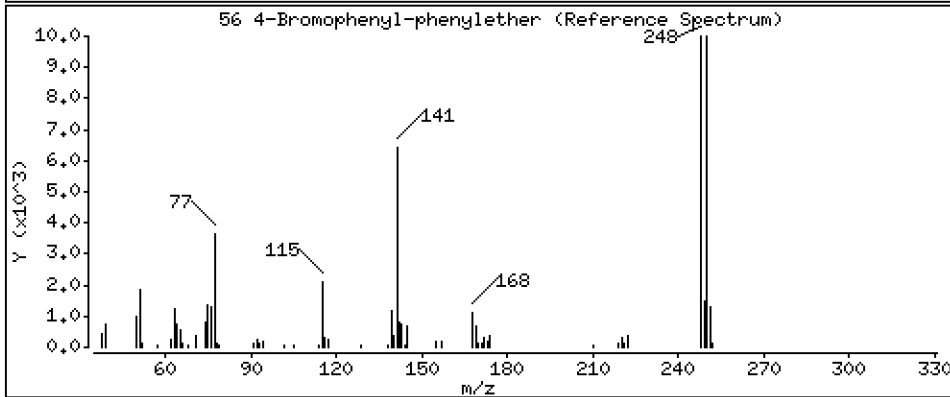
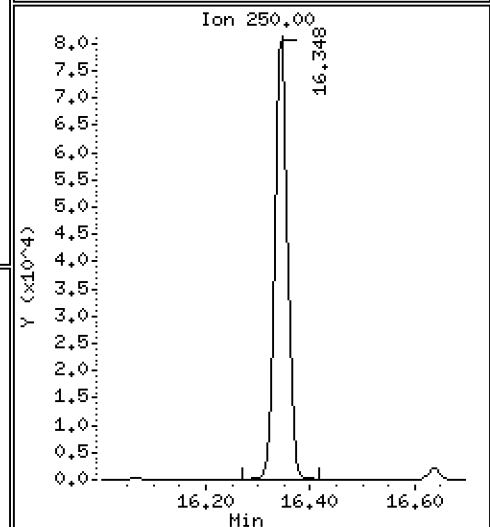
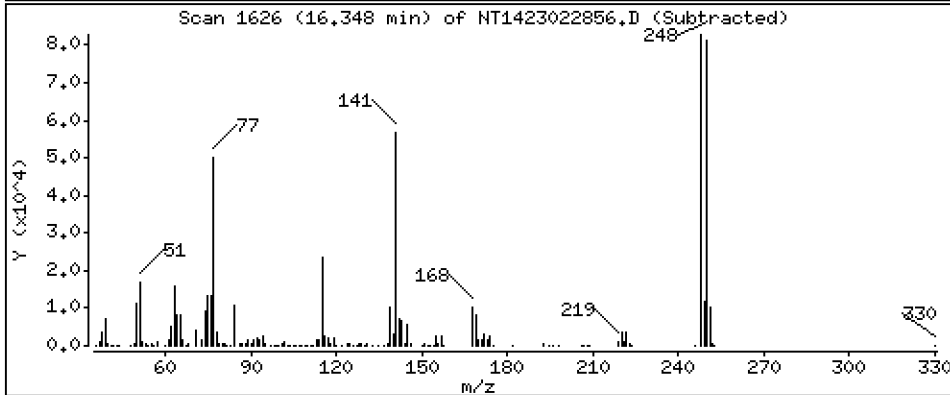
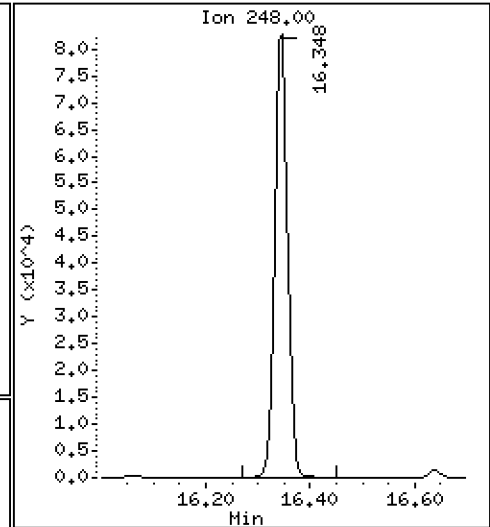
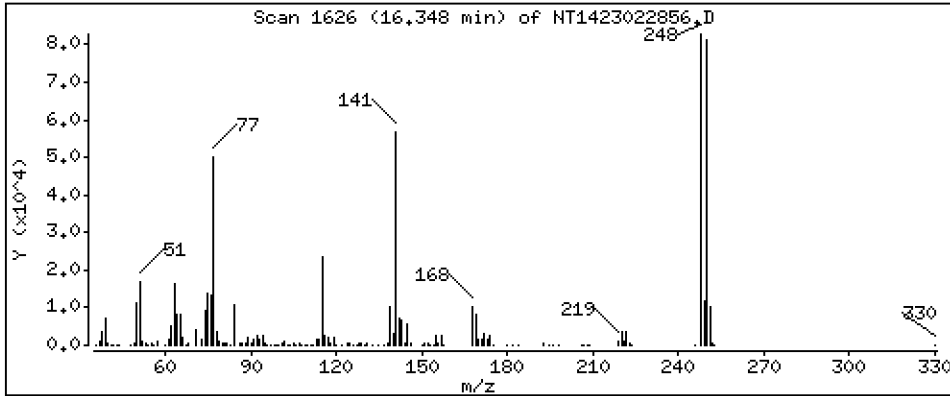
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,149 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

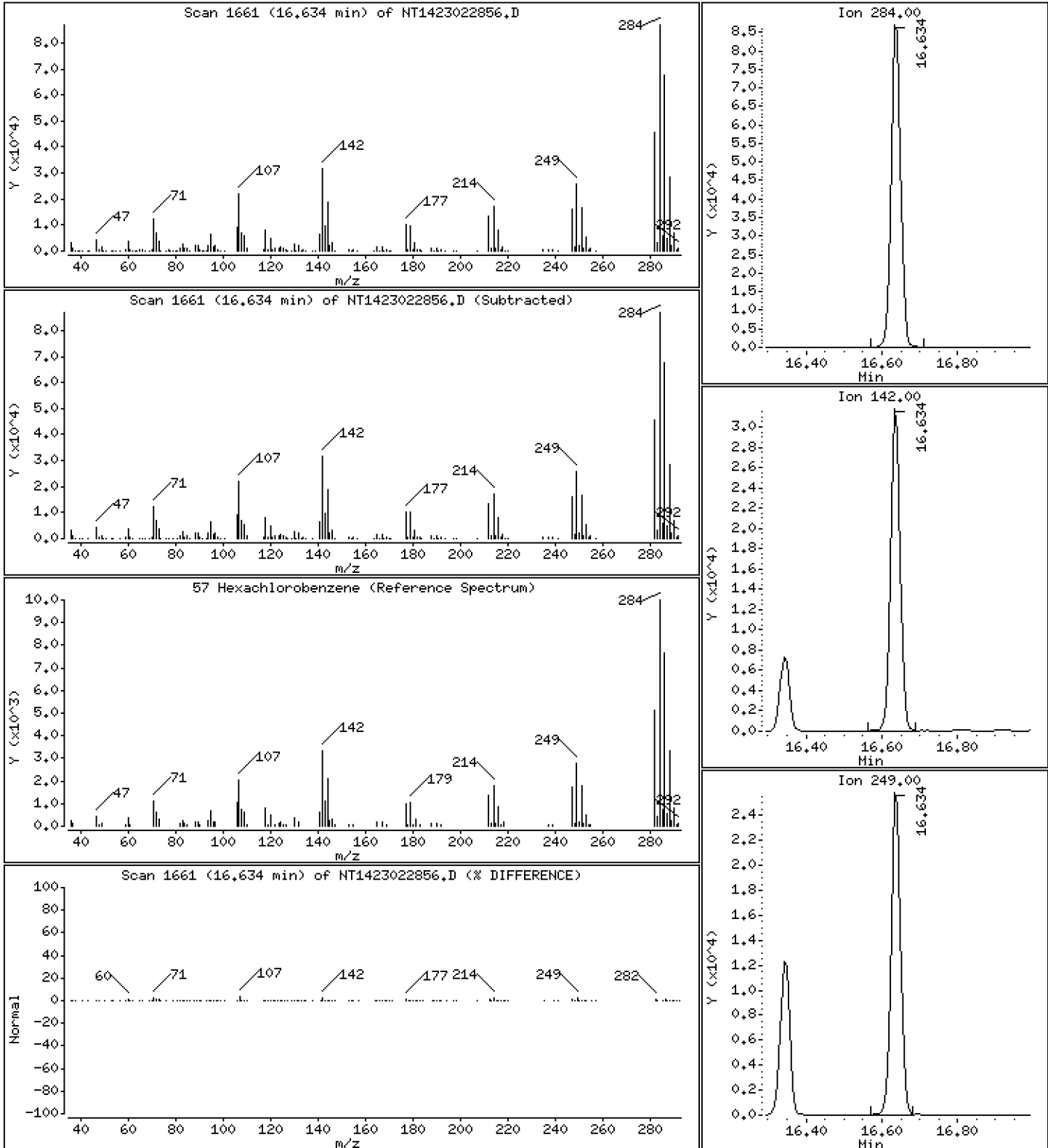
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,996 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

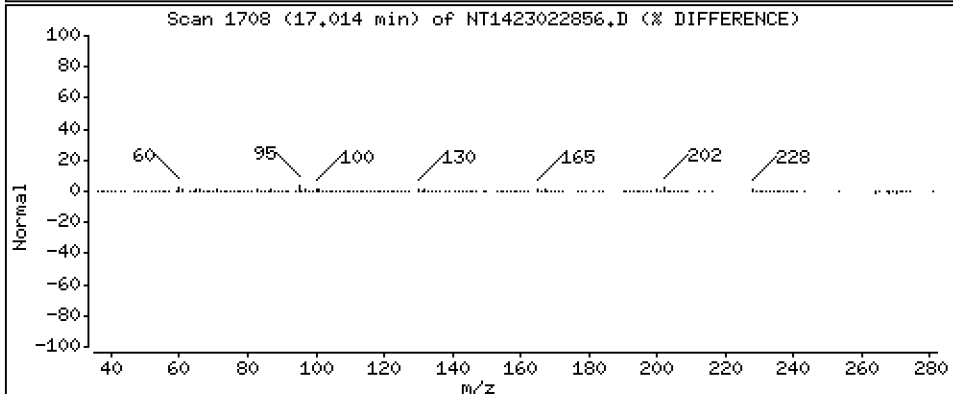
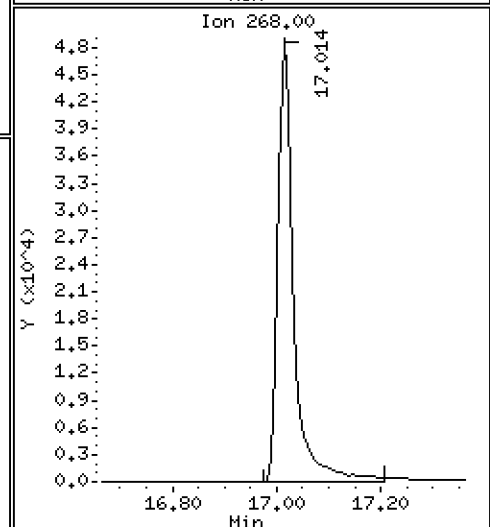
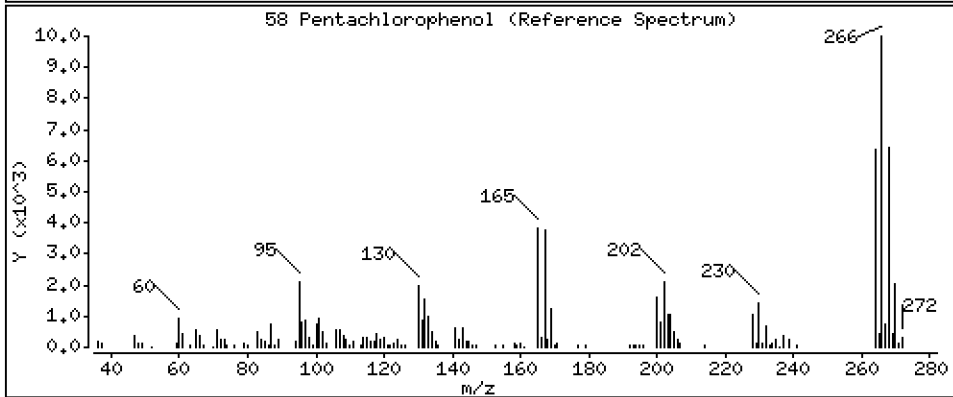
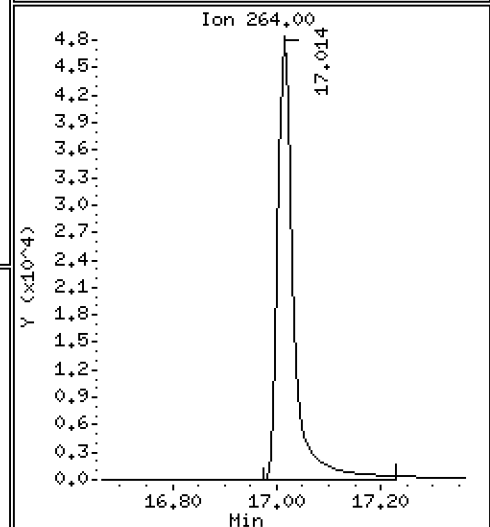
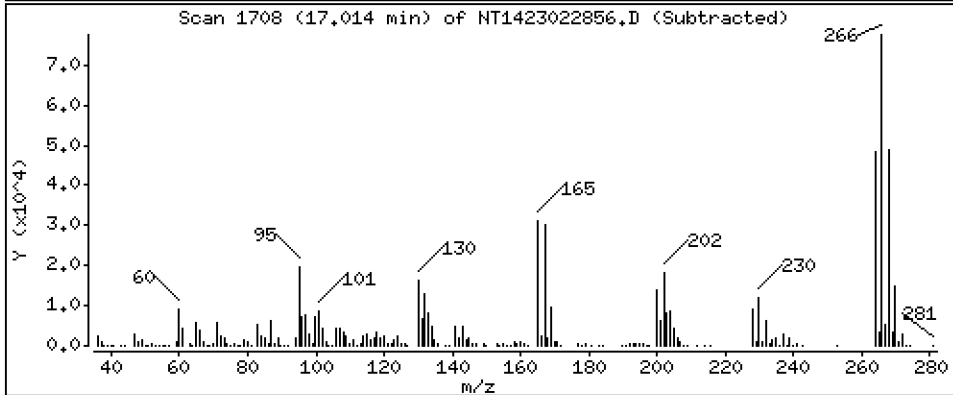
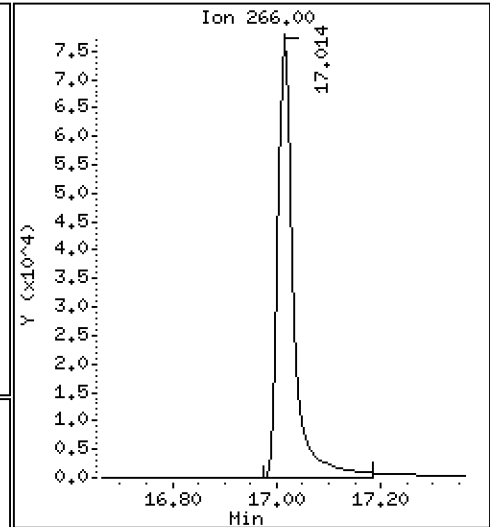
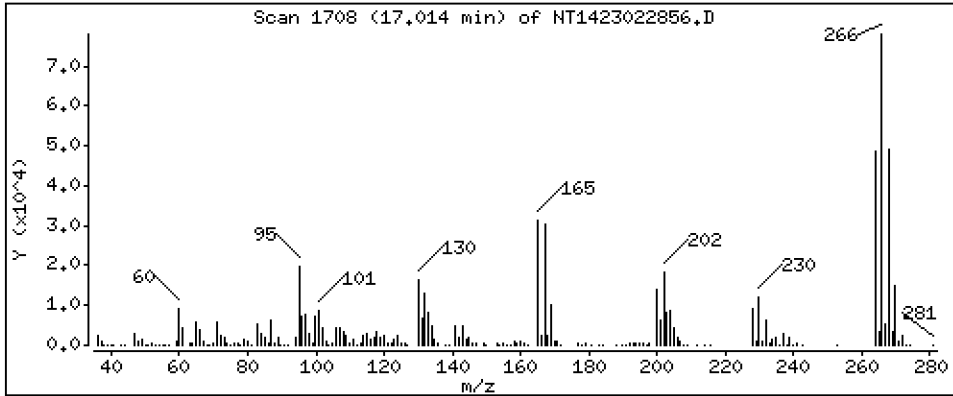
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 10,44 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

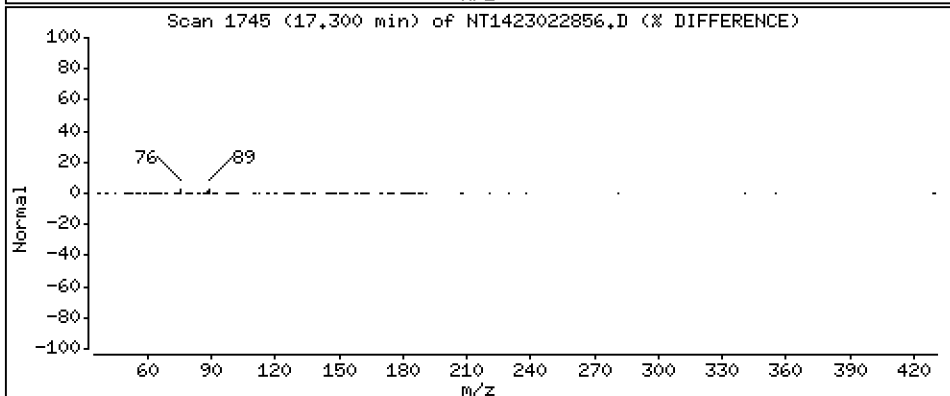
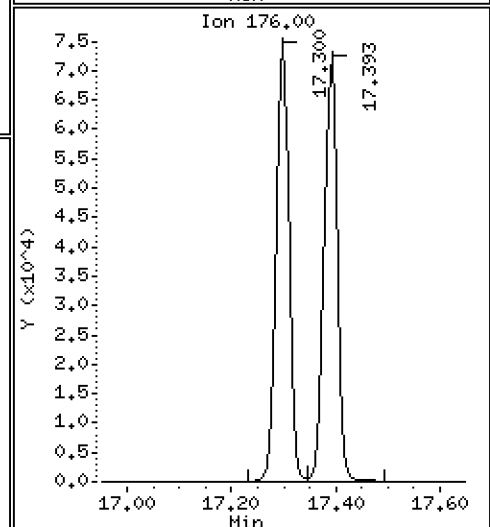
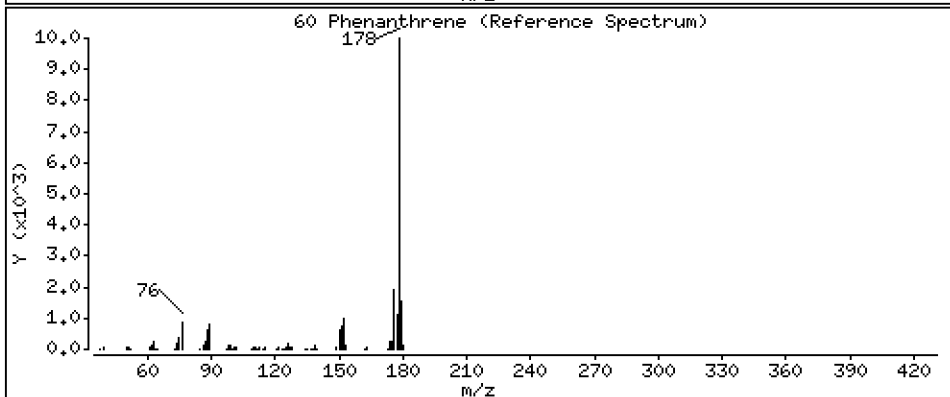
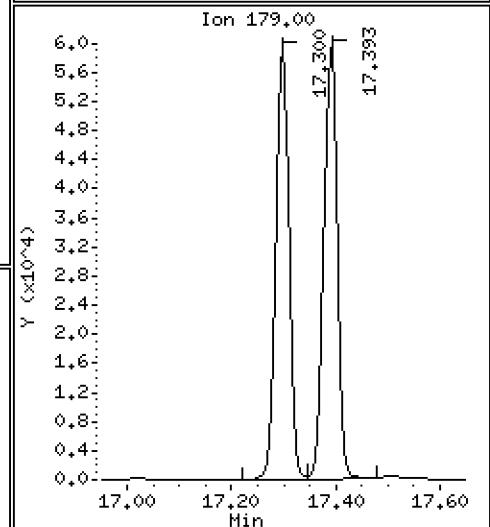
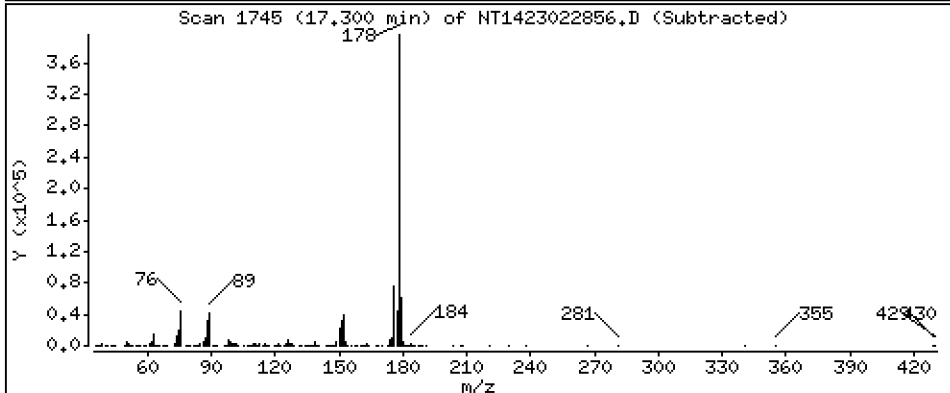
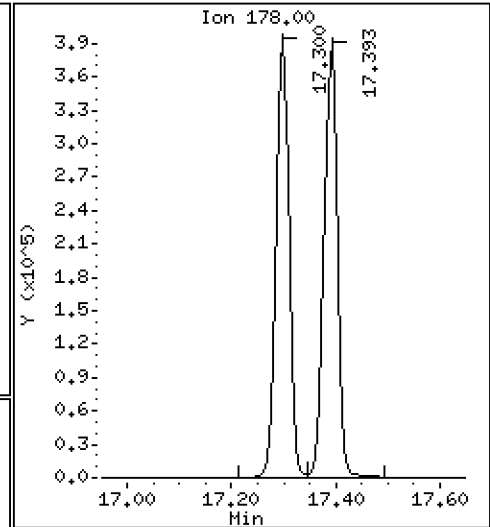
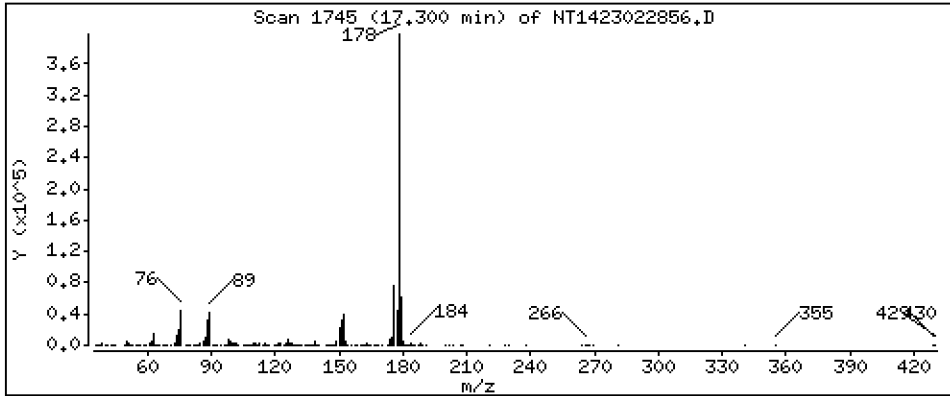
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,921 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

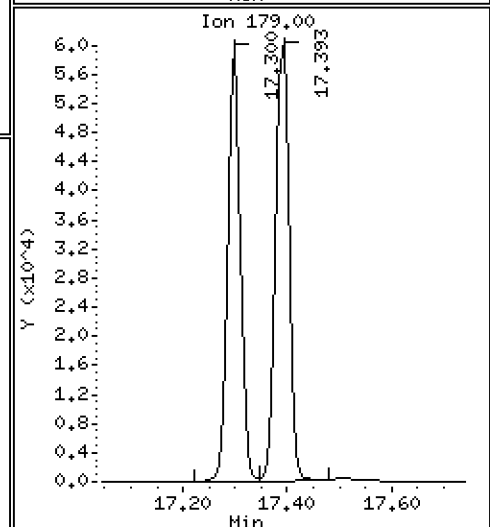
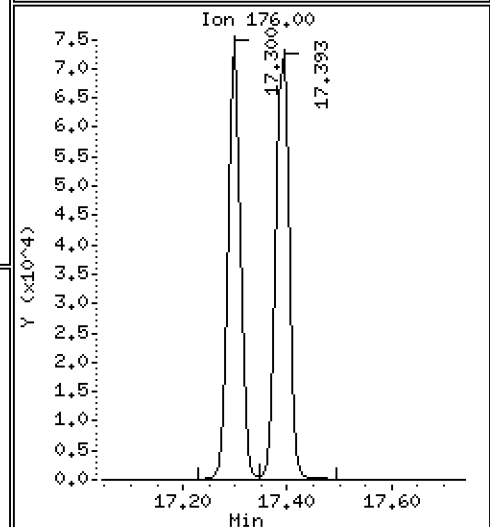
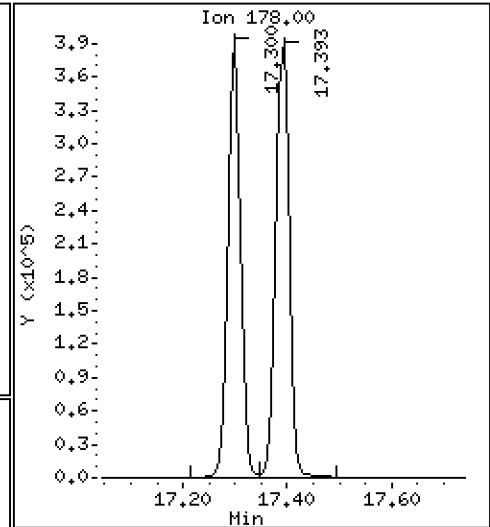
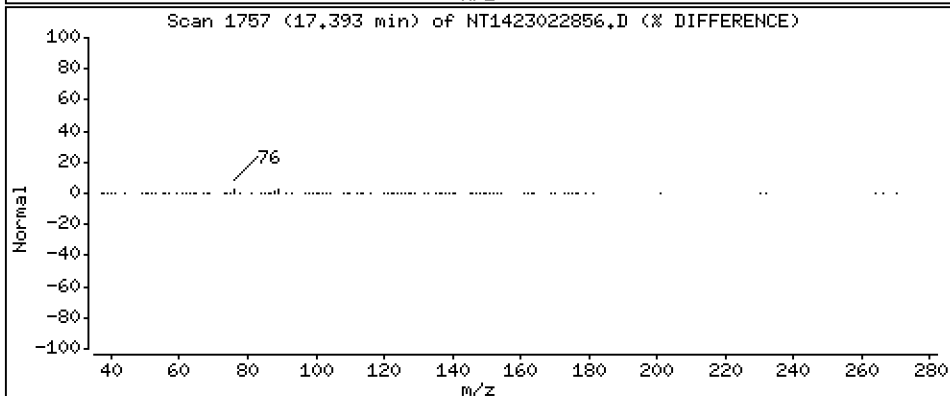
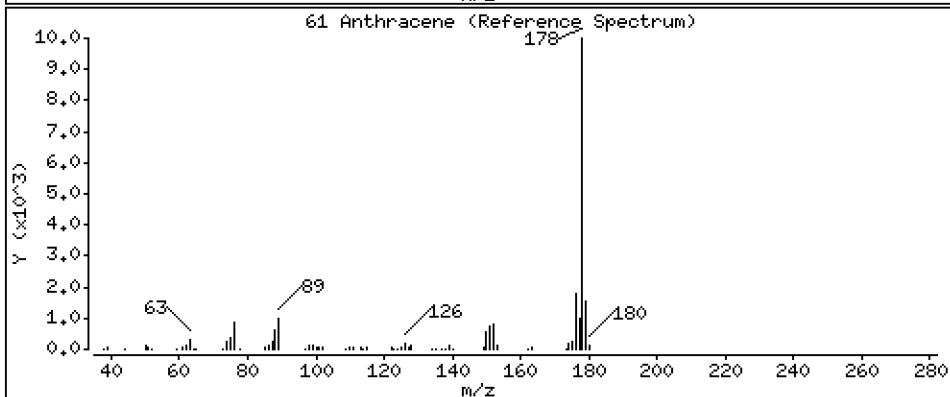
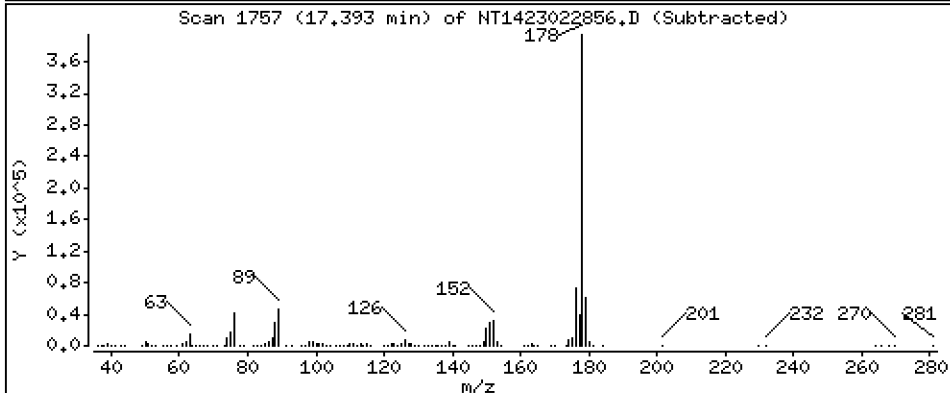
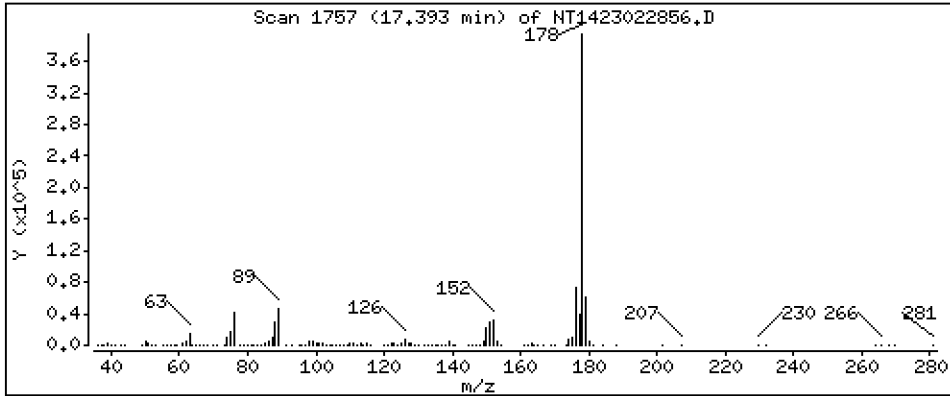
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 5,364 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

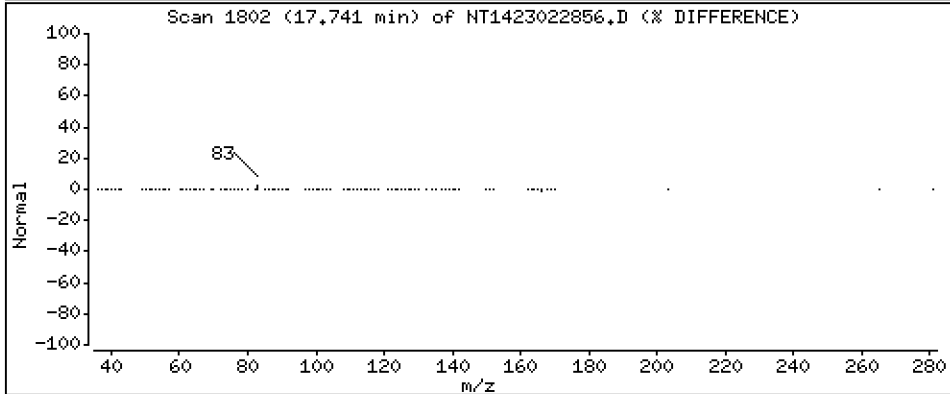
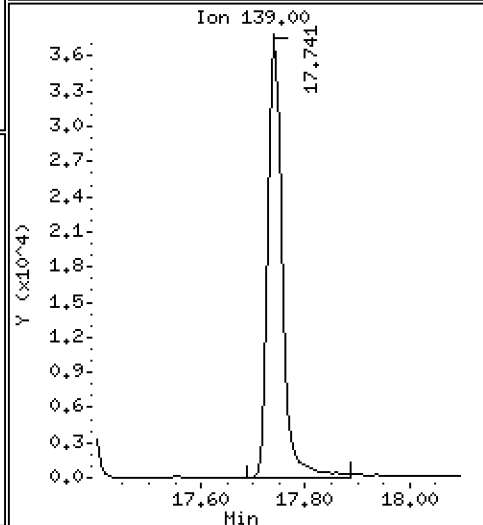
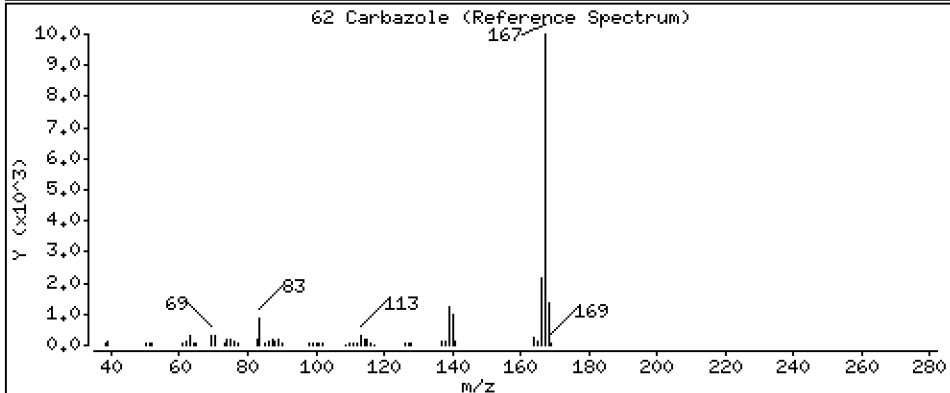
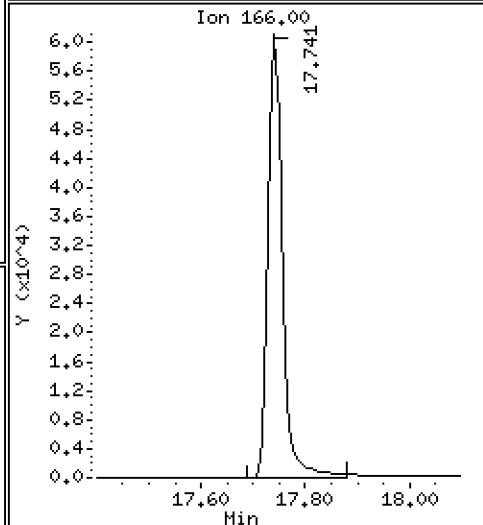
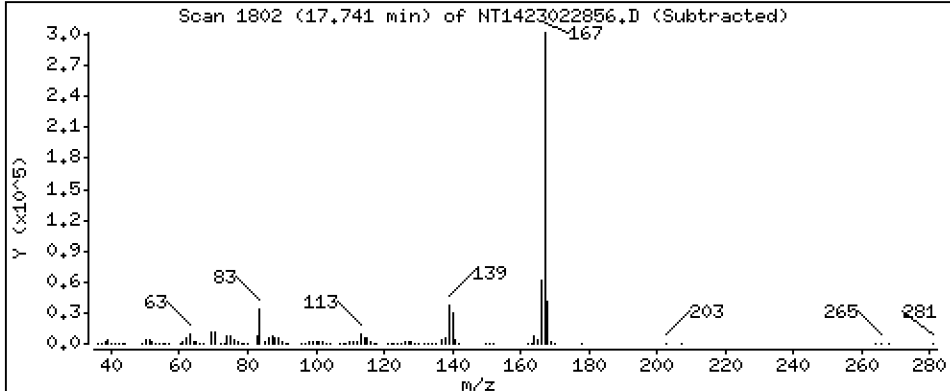
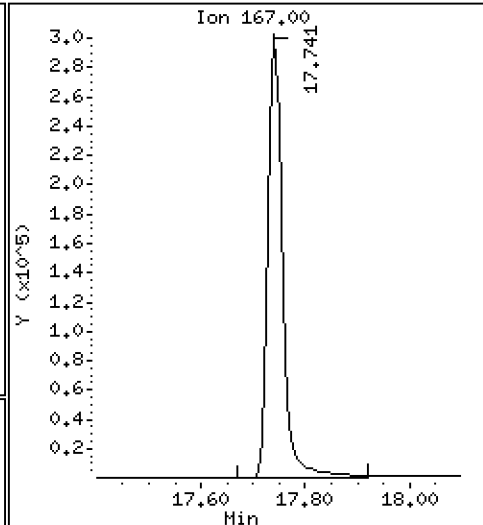
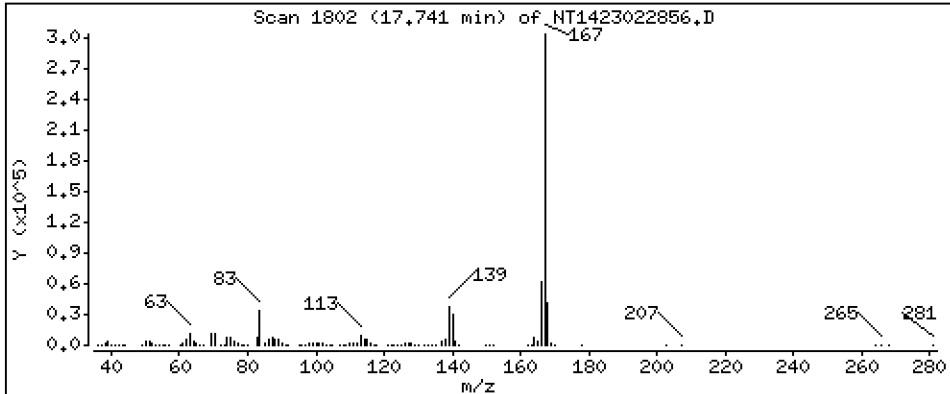
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 5,144 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

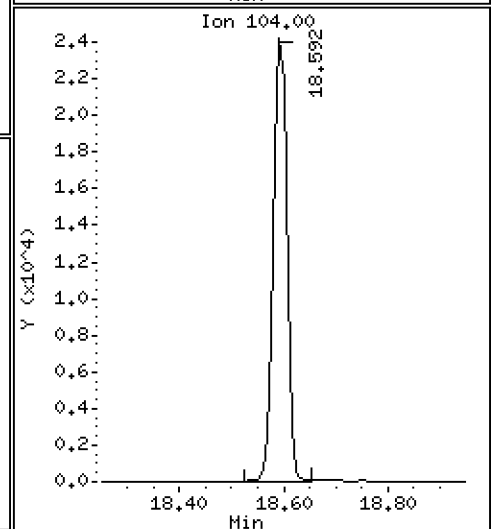
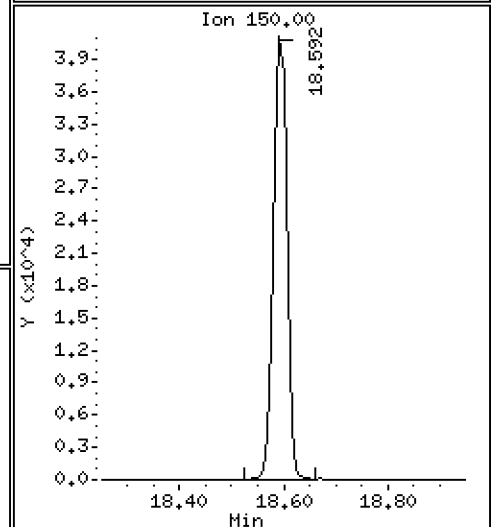
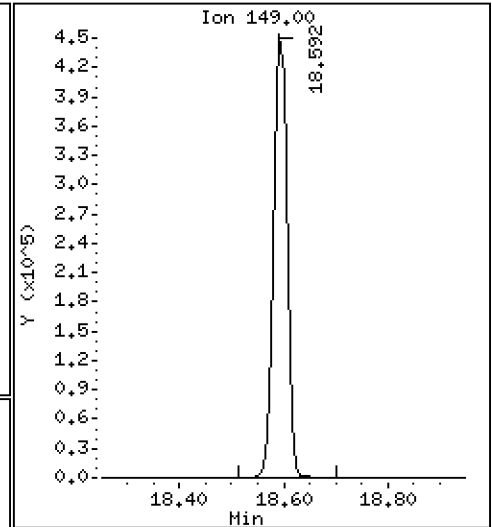
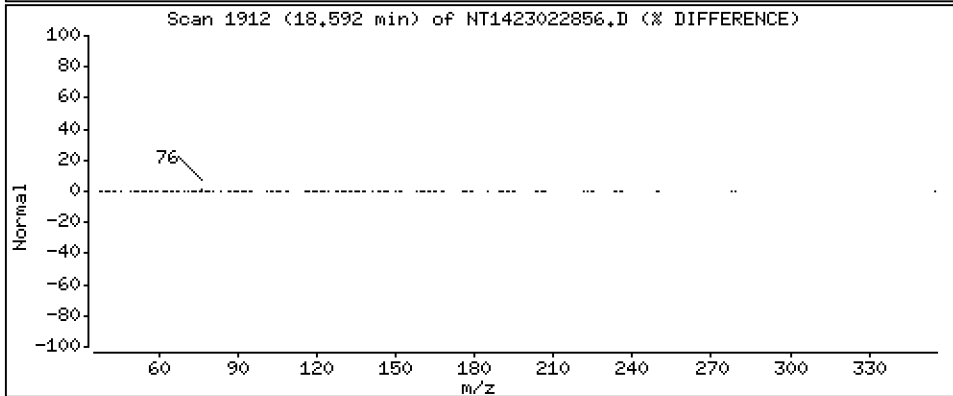
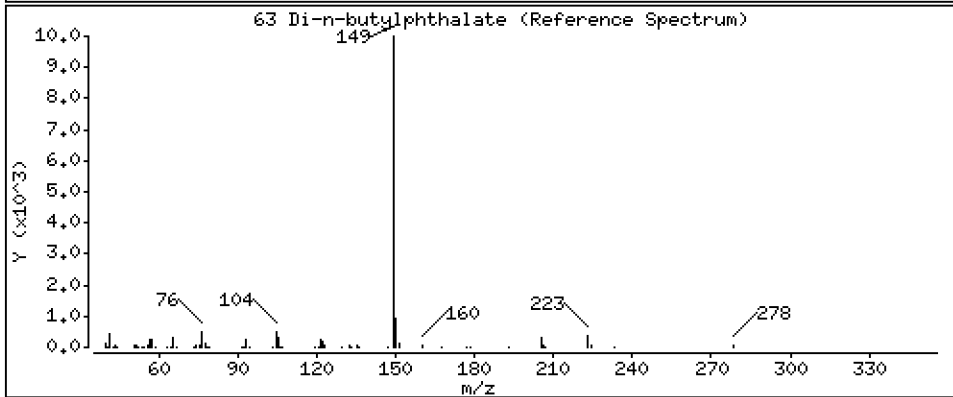
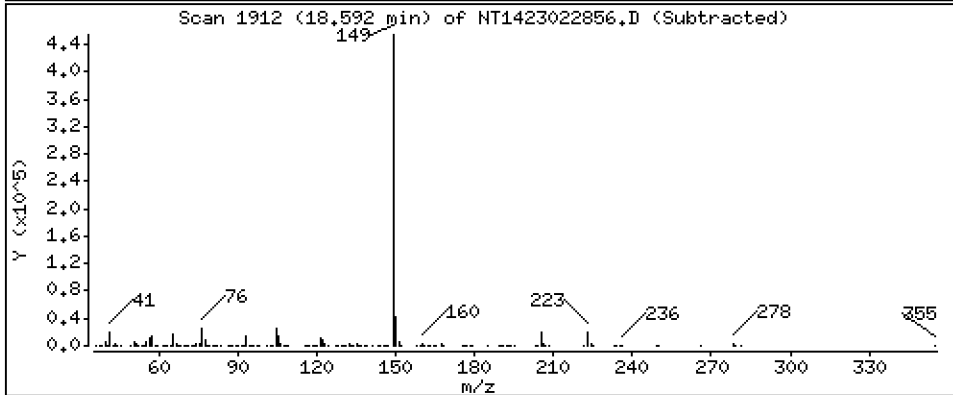
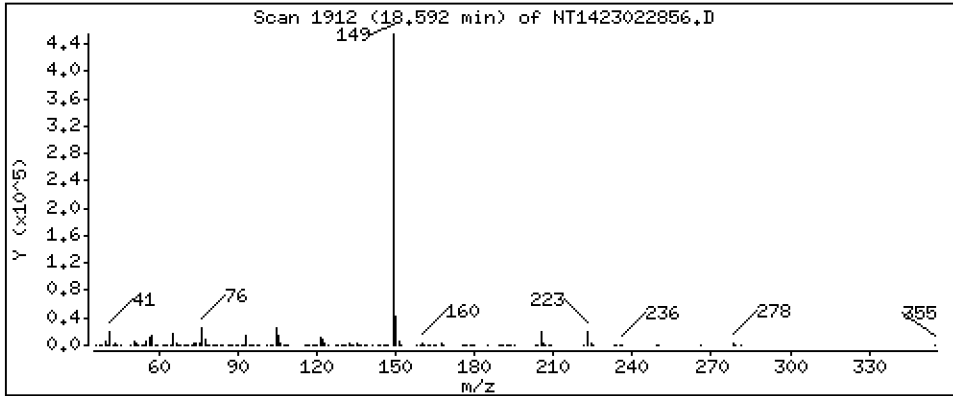
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 5,568 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

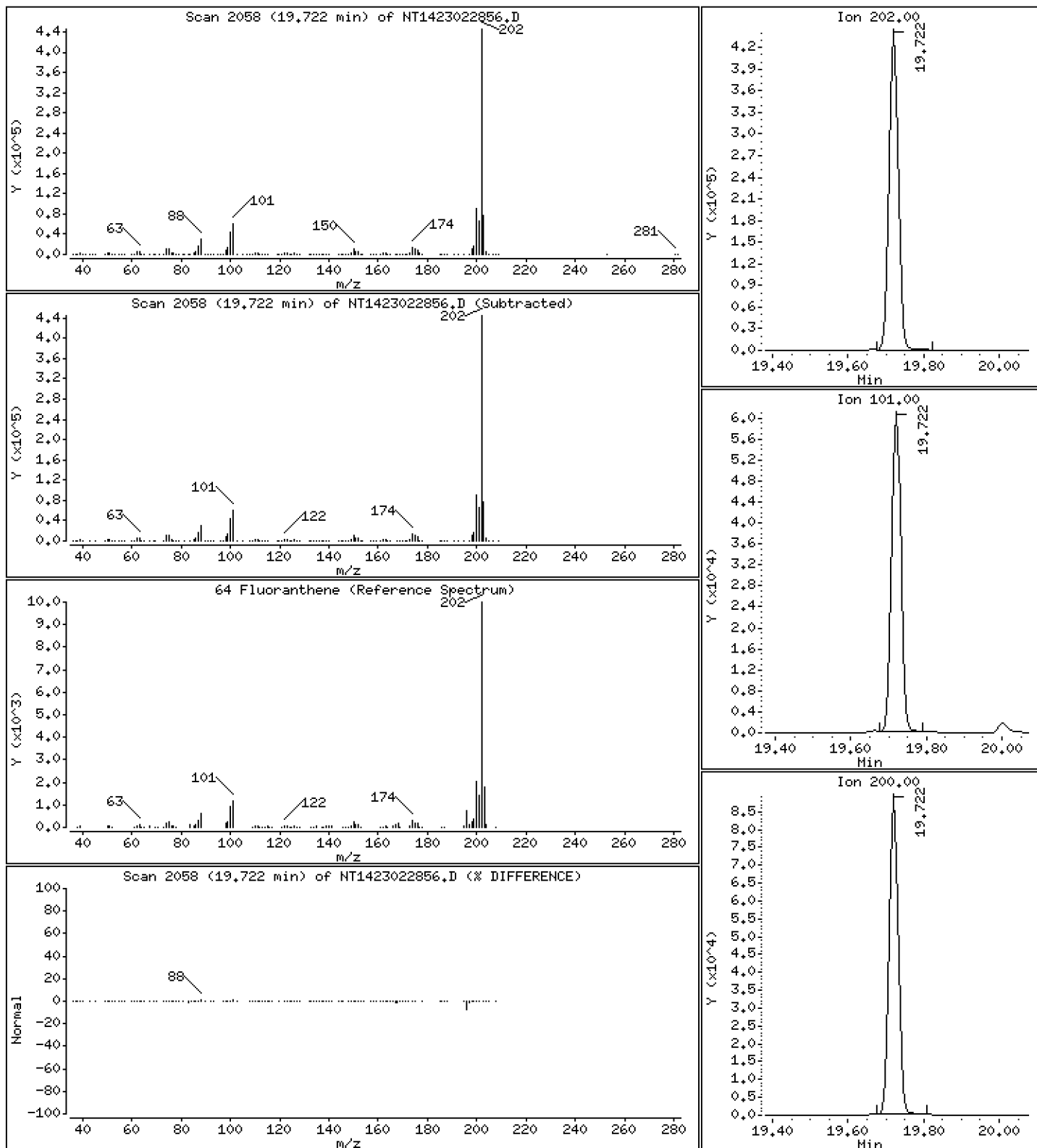
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,797 ug/mL





Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

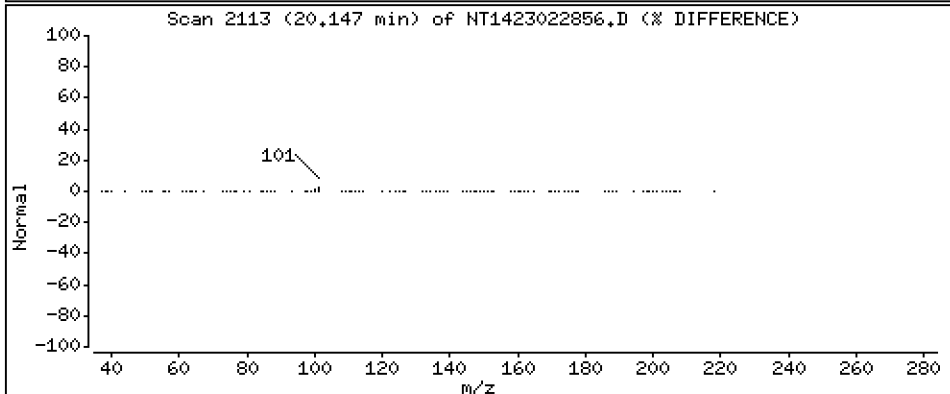
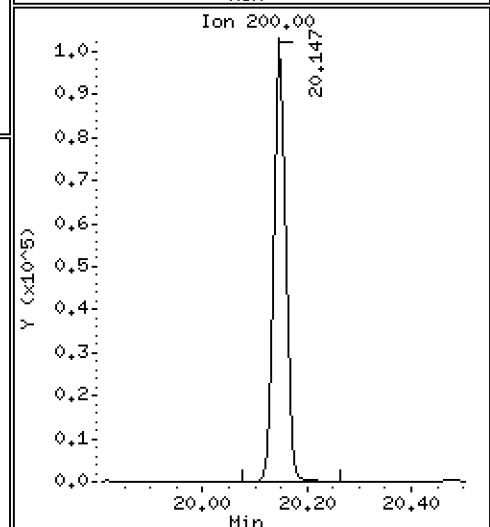
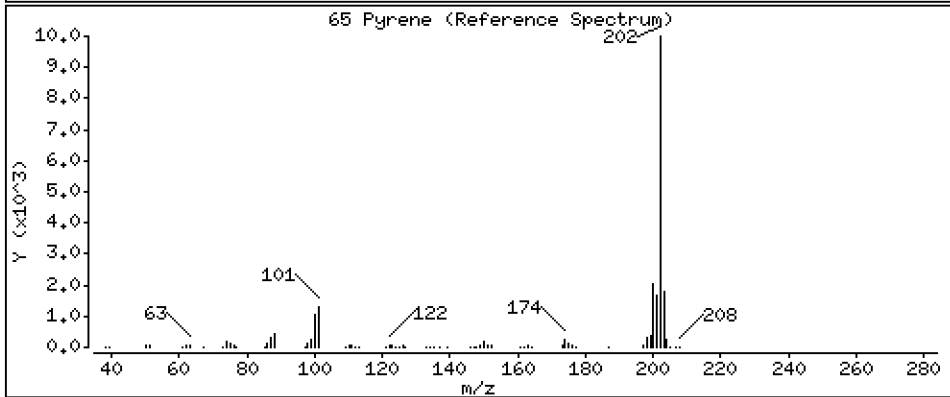
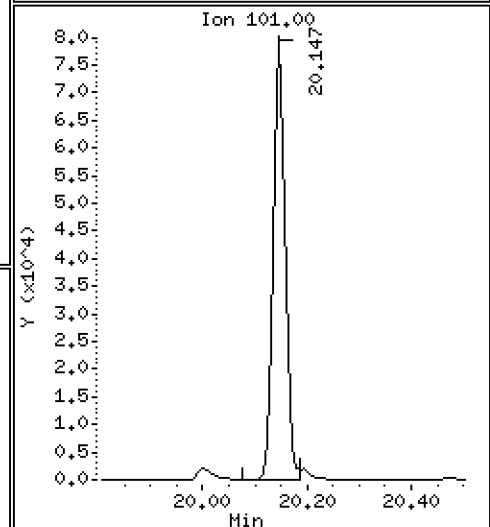
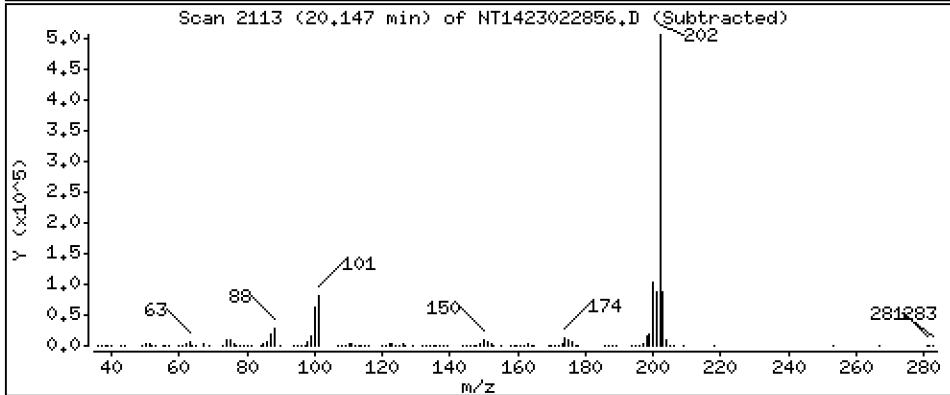
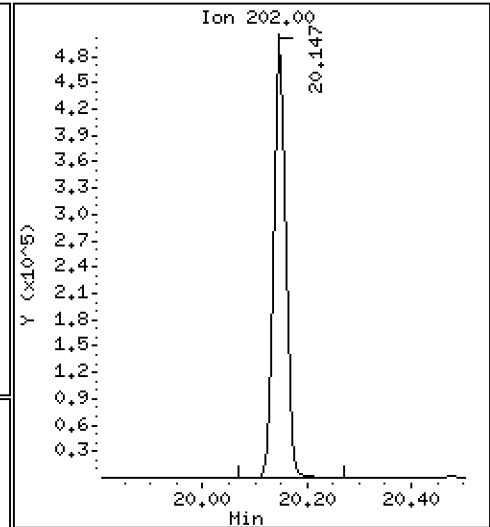
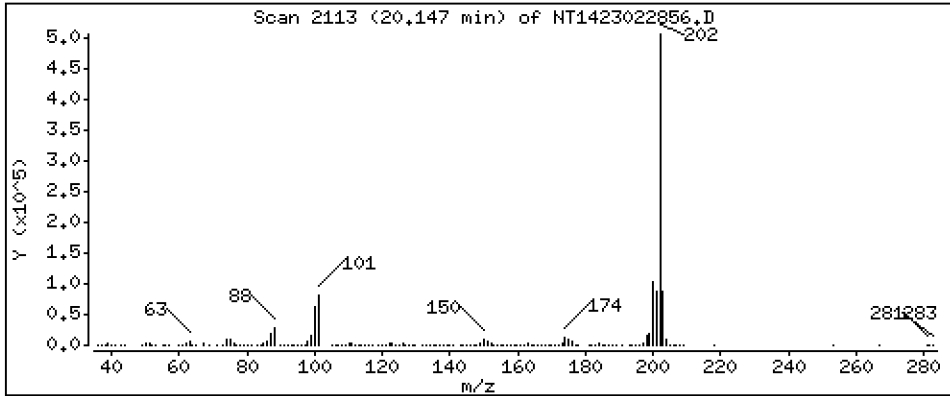
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,787 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

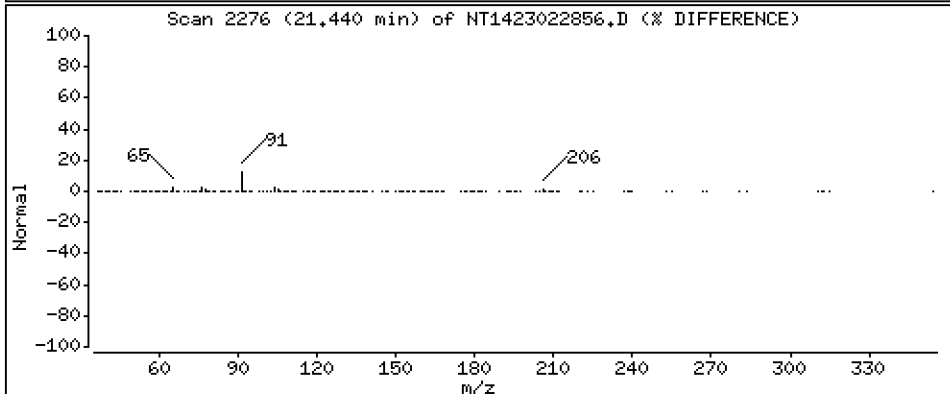
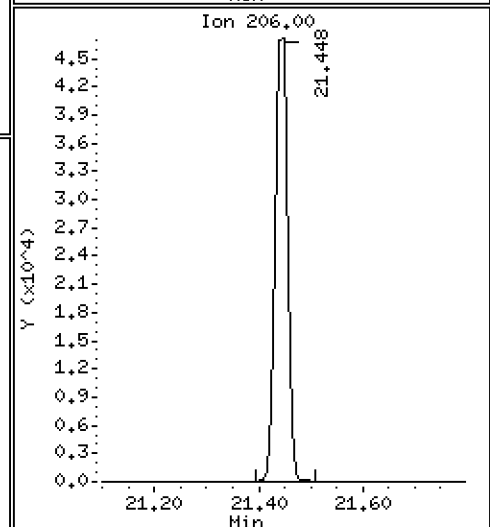
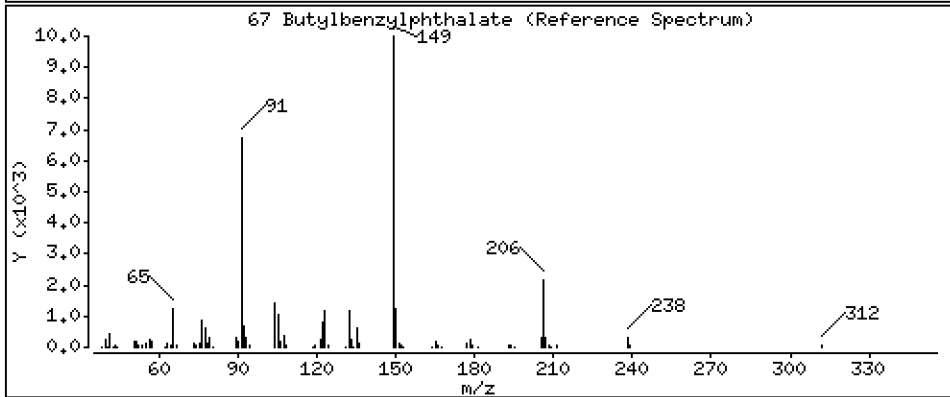
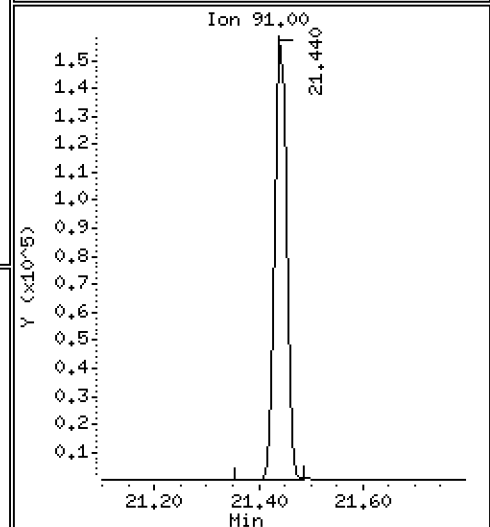
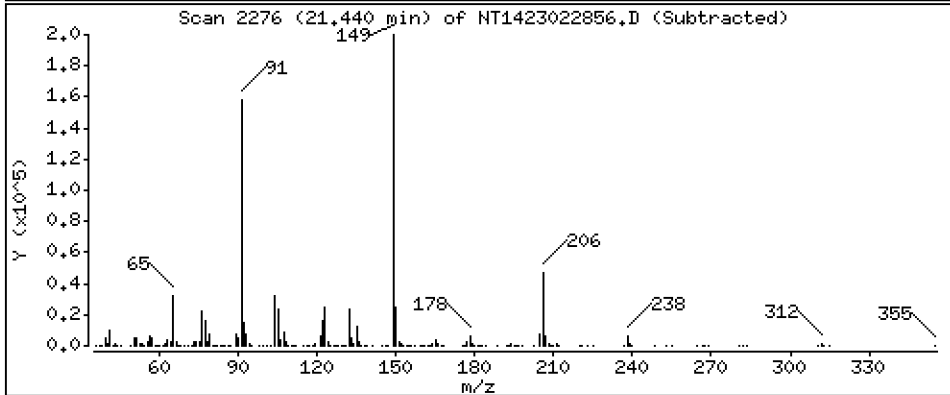
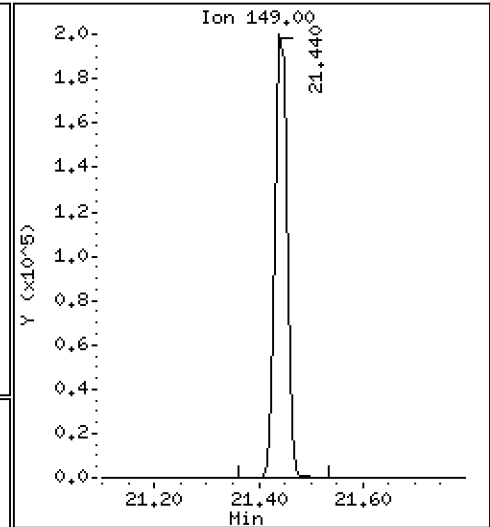
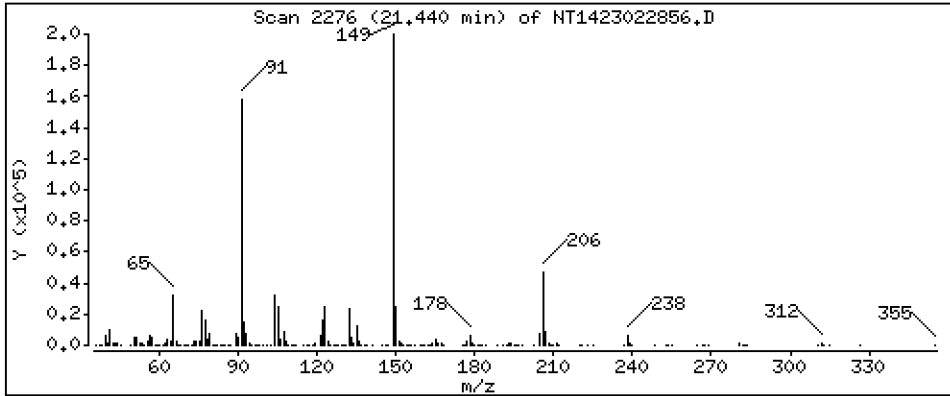
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,449 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

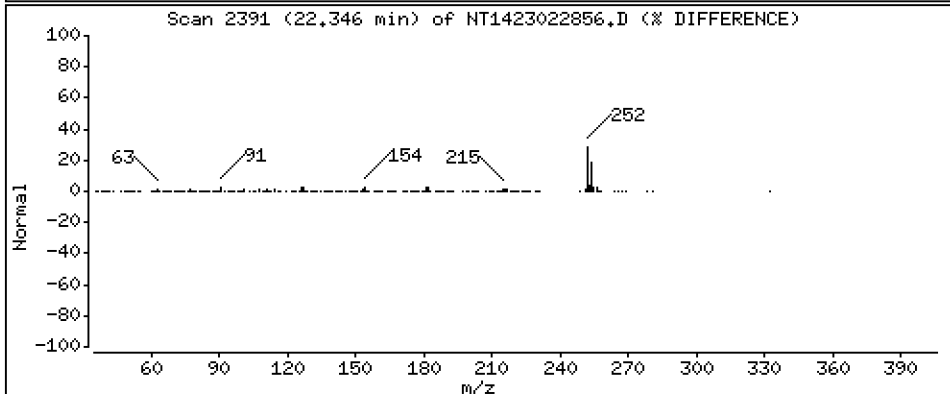
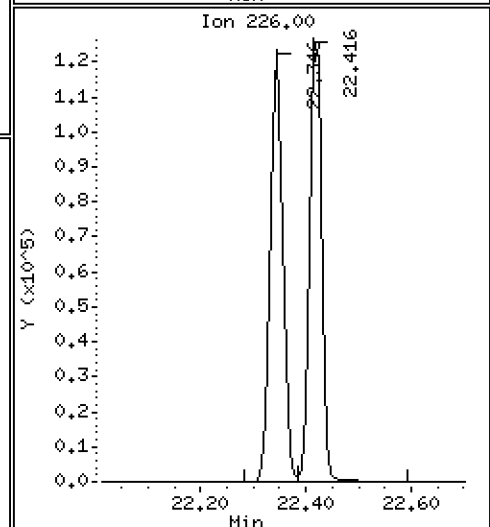
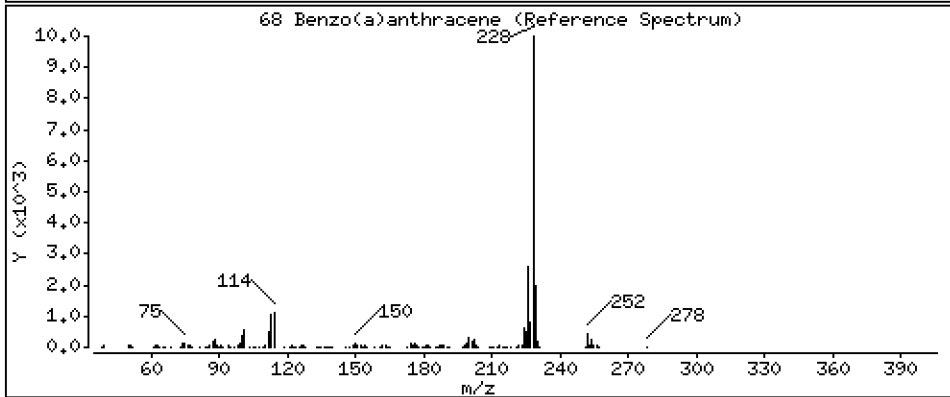
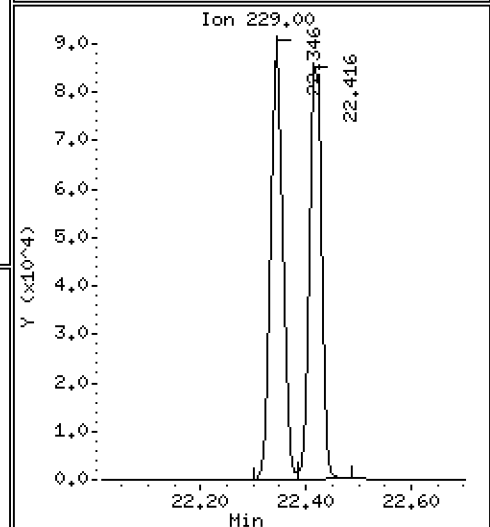
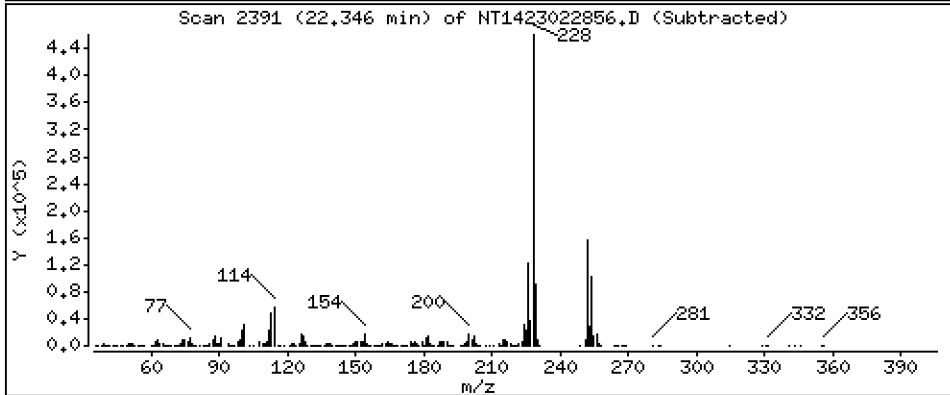
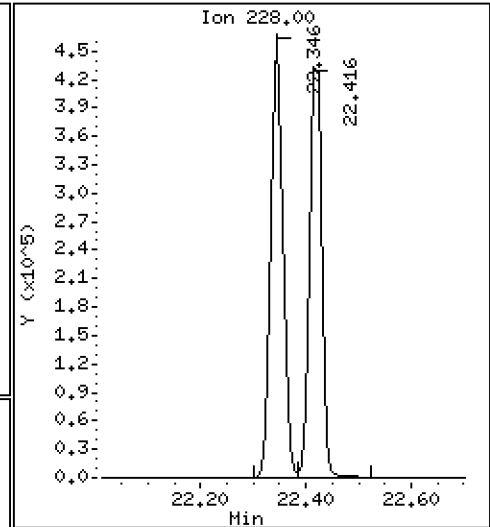
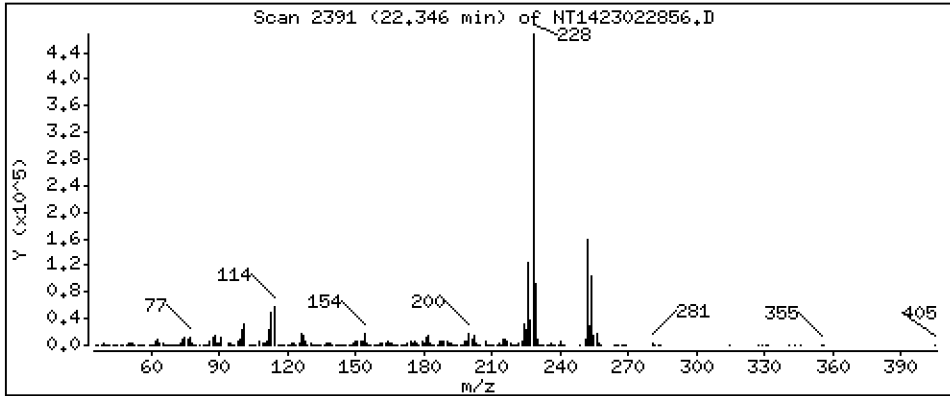
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 5,443 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

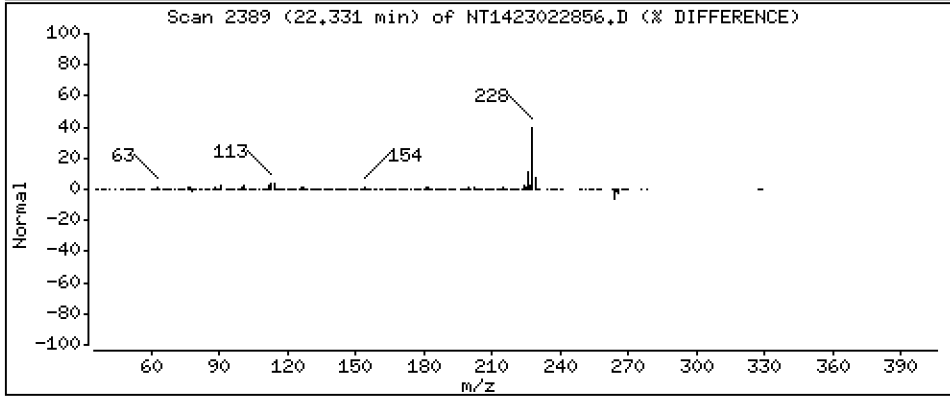
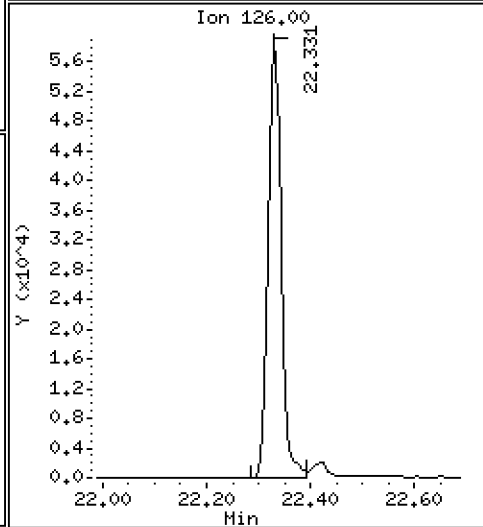
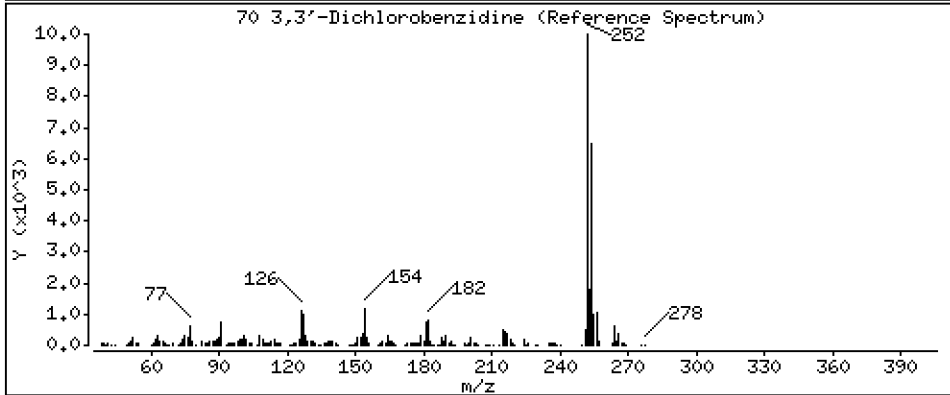
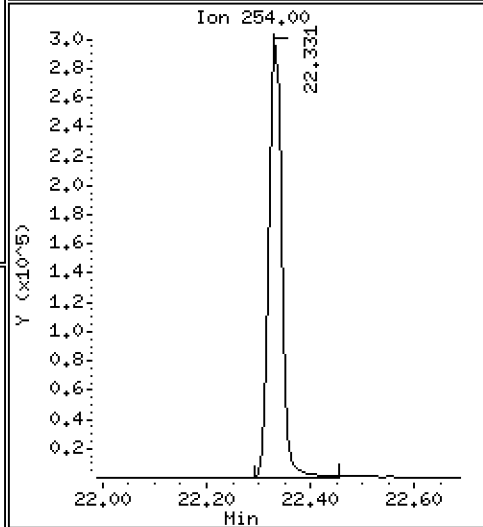
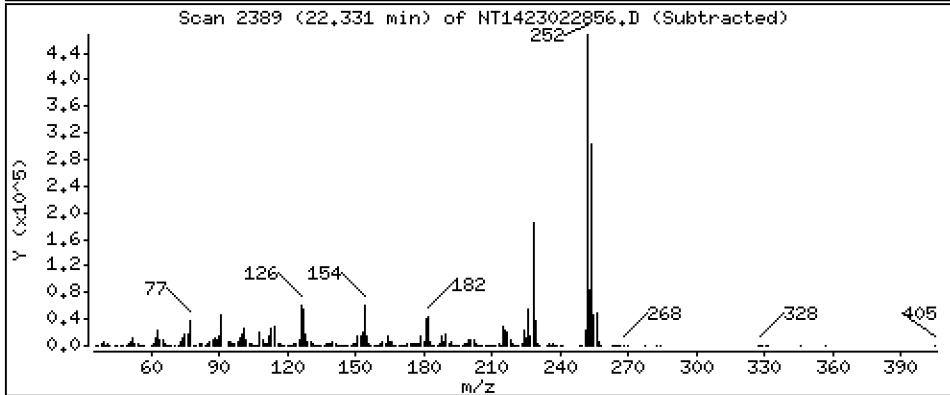
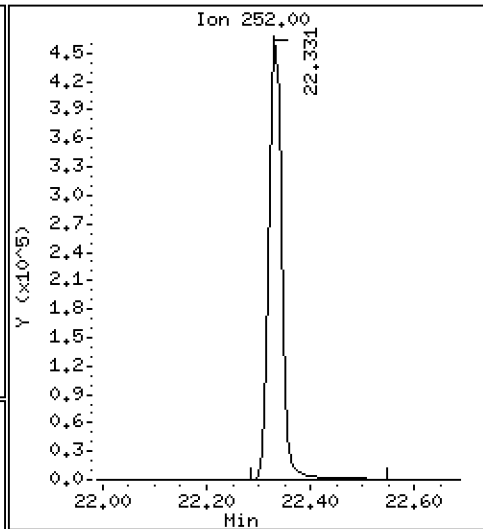
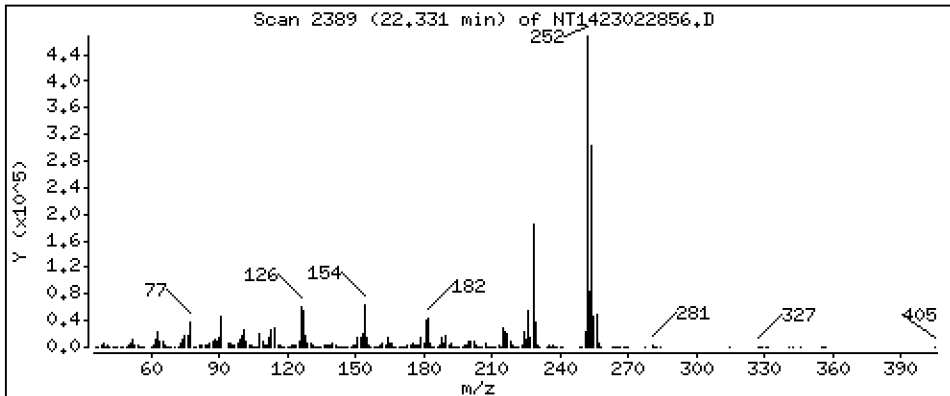
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 19,61 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

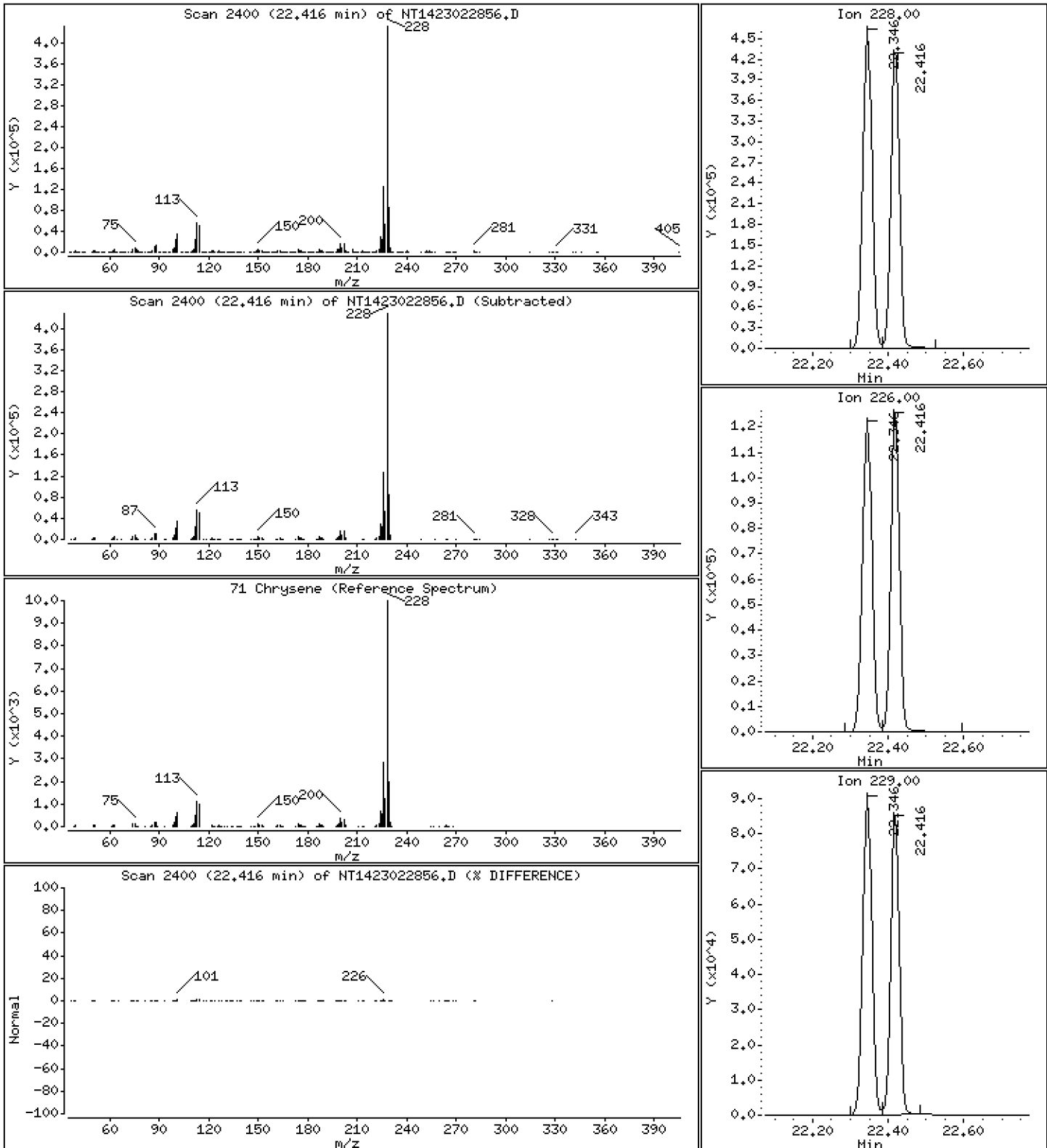
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 5,053 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

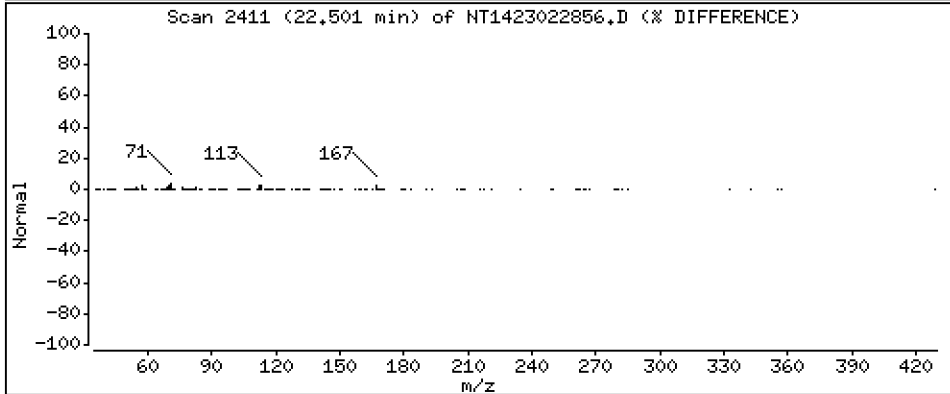
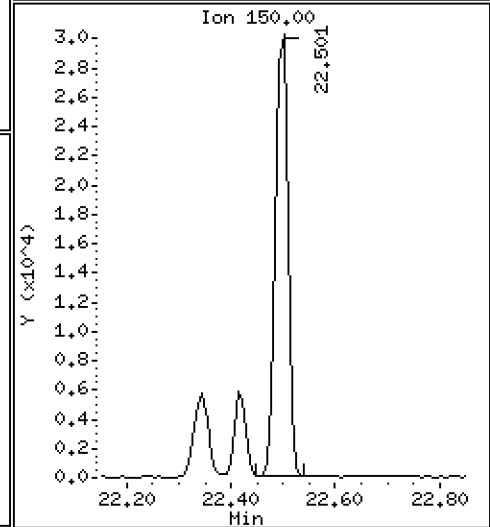
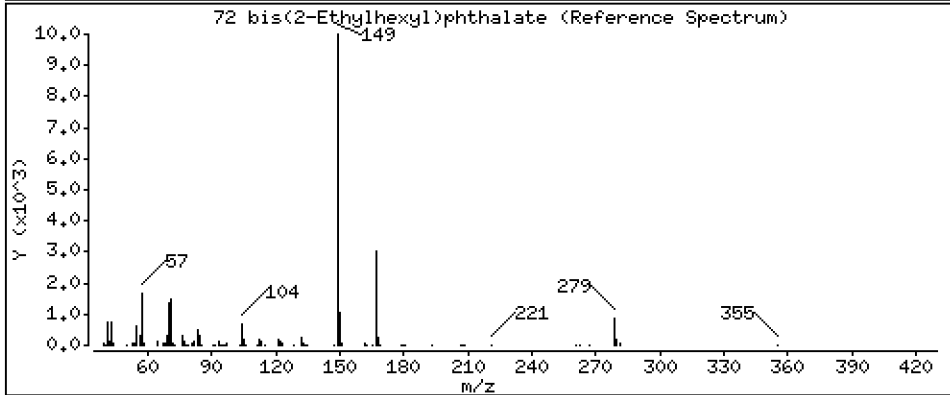
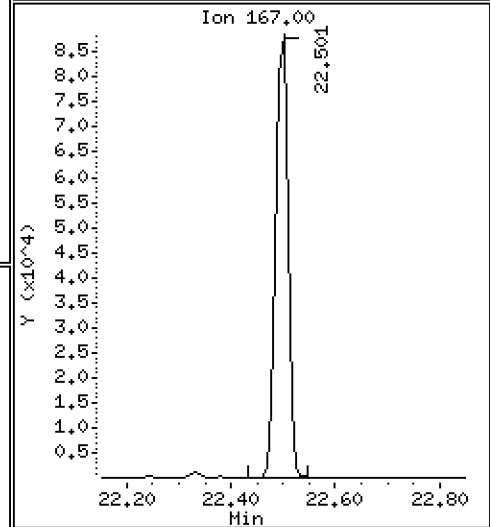
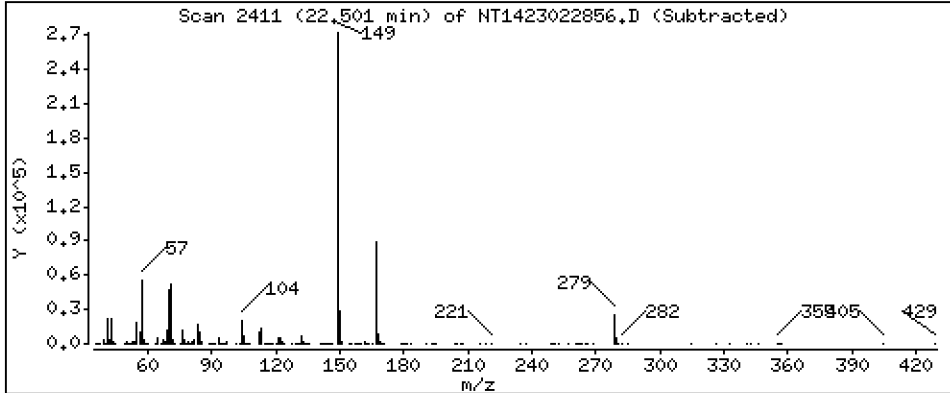
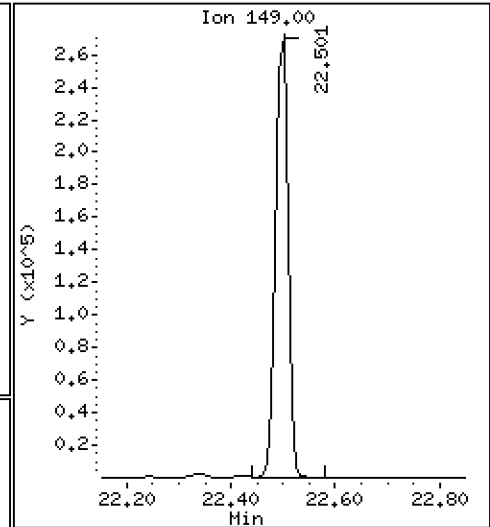
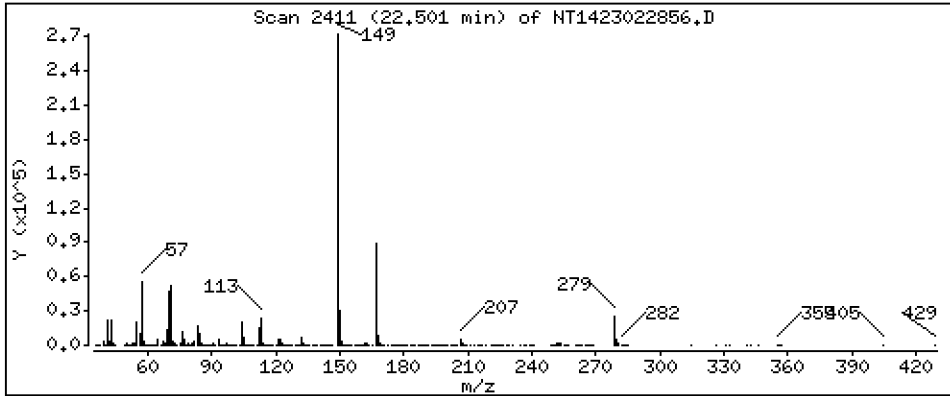
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,813 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

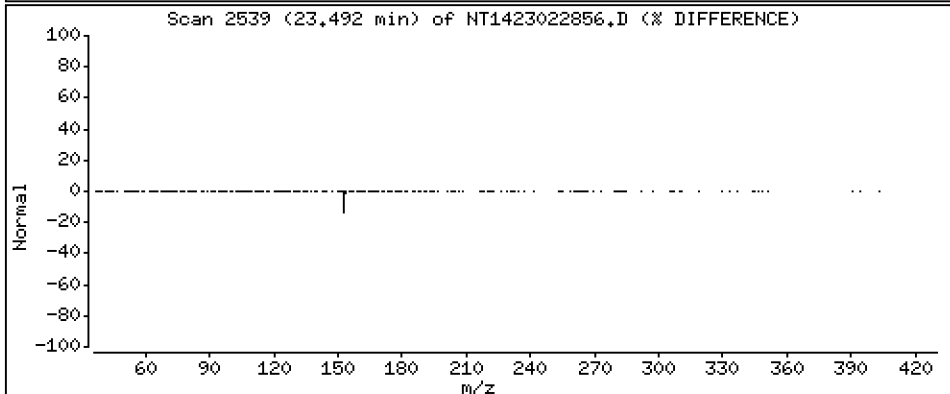
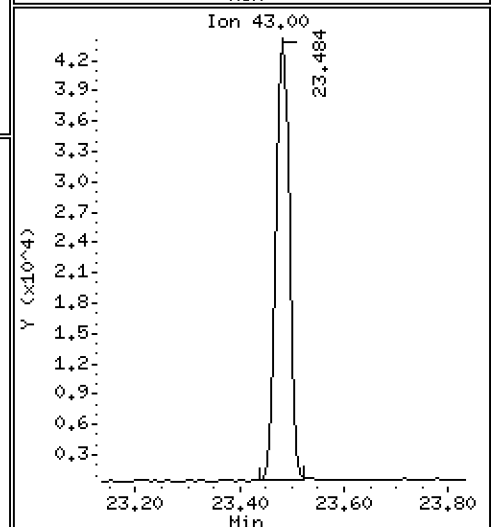
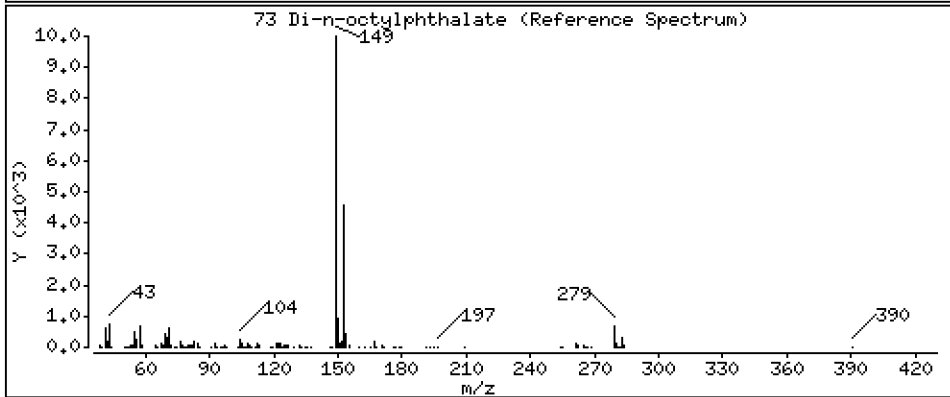
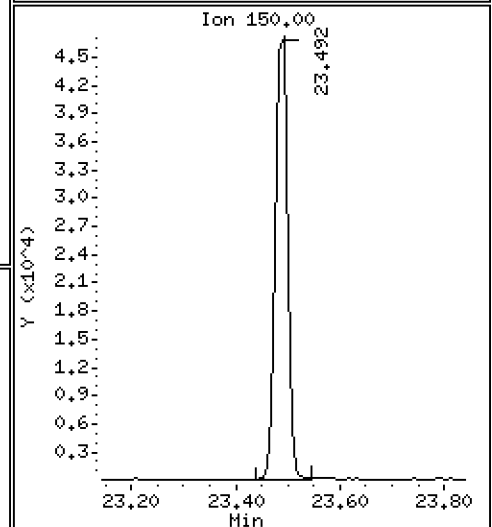
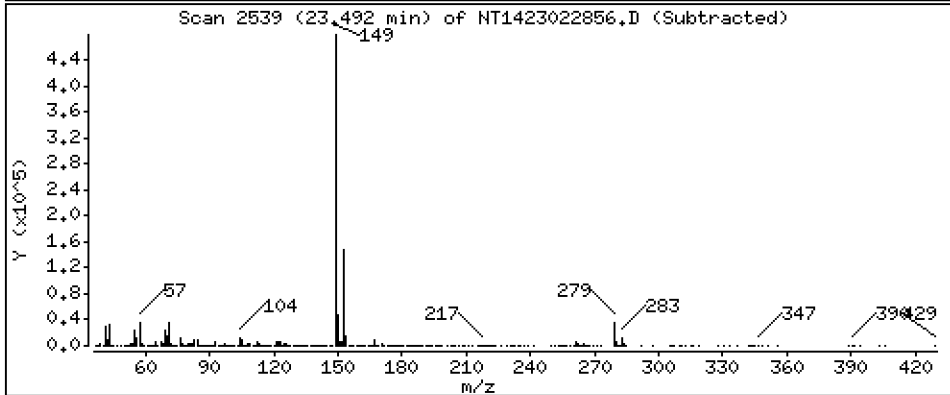
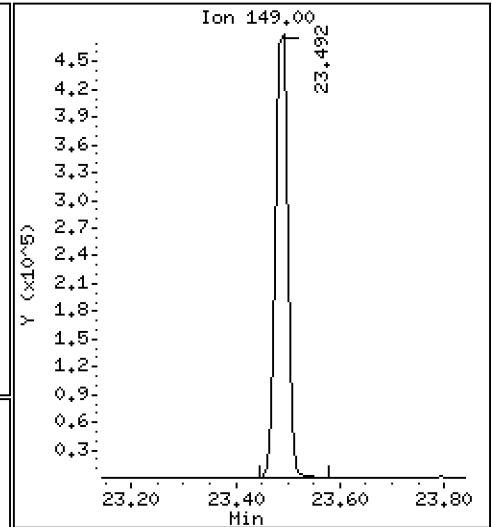
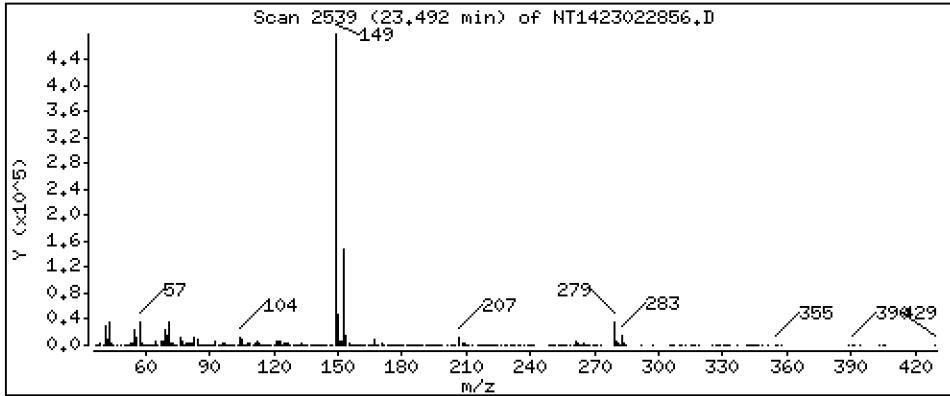
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,758 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

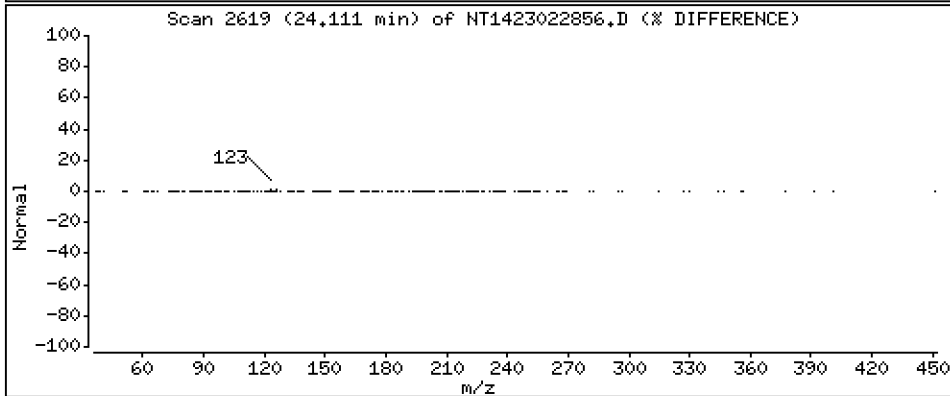
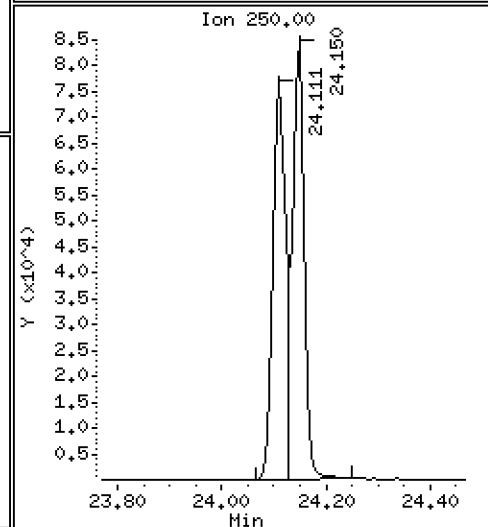
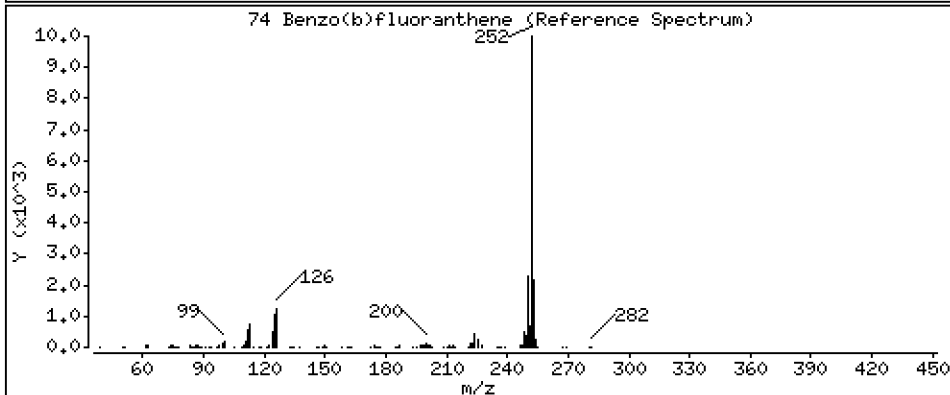
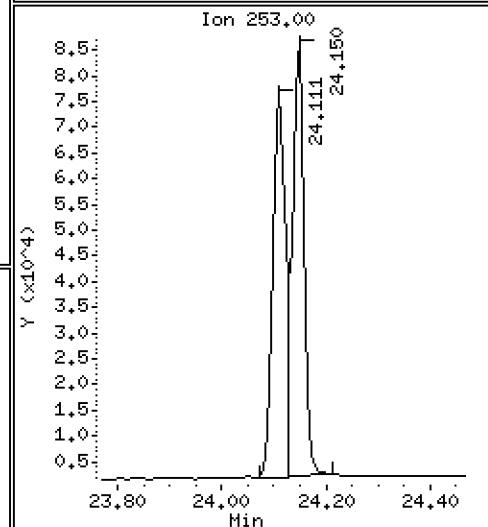
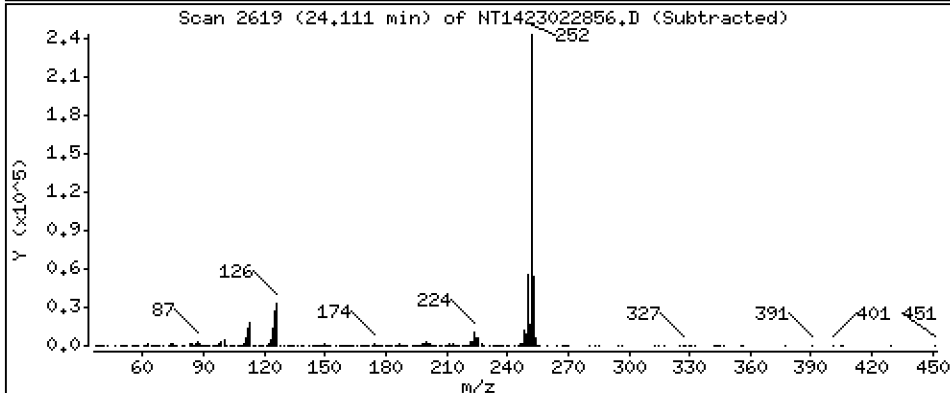
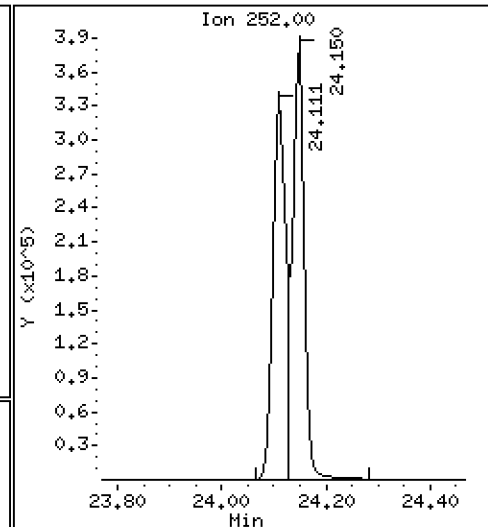
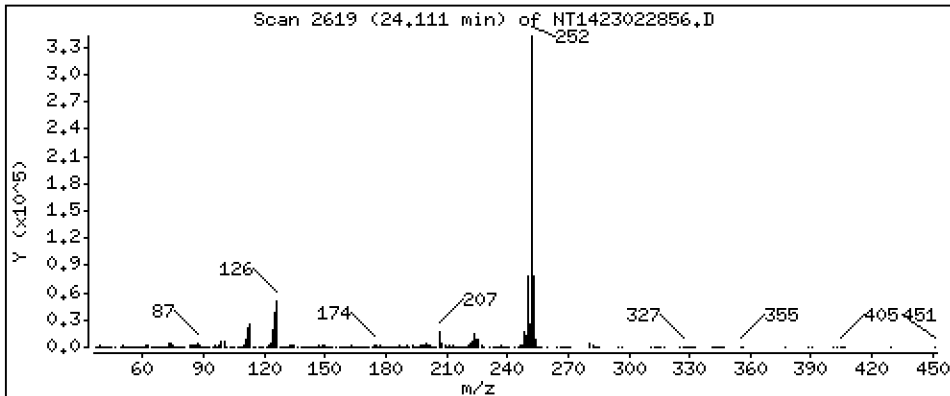
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 6,031 ug/mL





Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

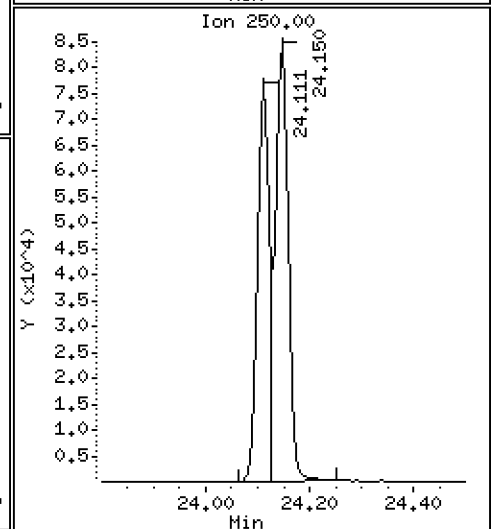
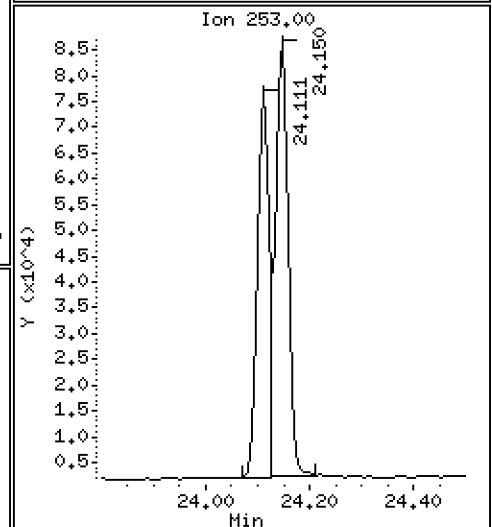
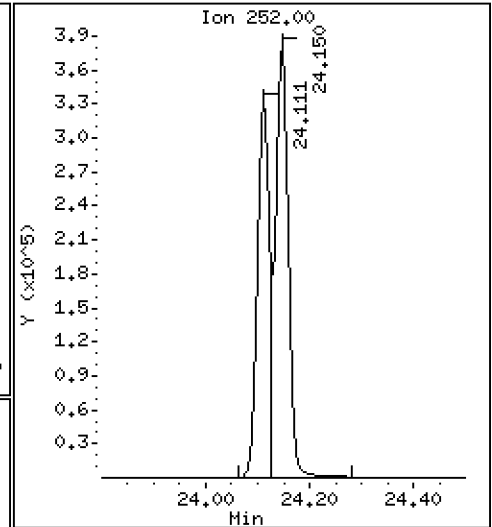
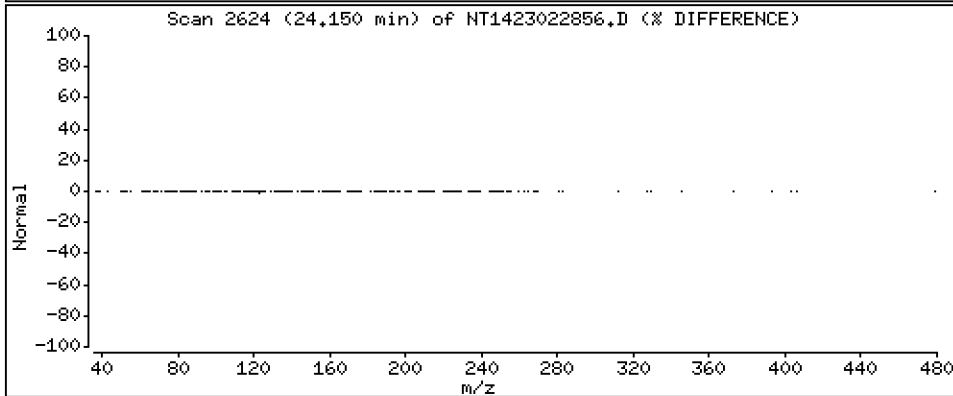
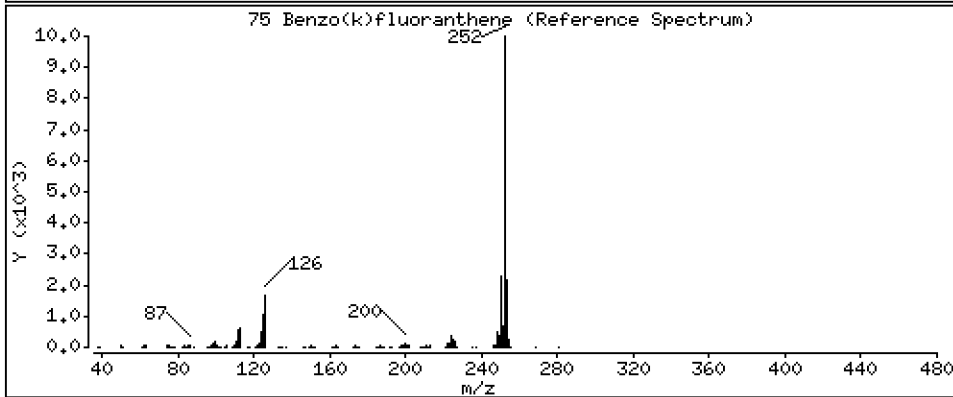
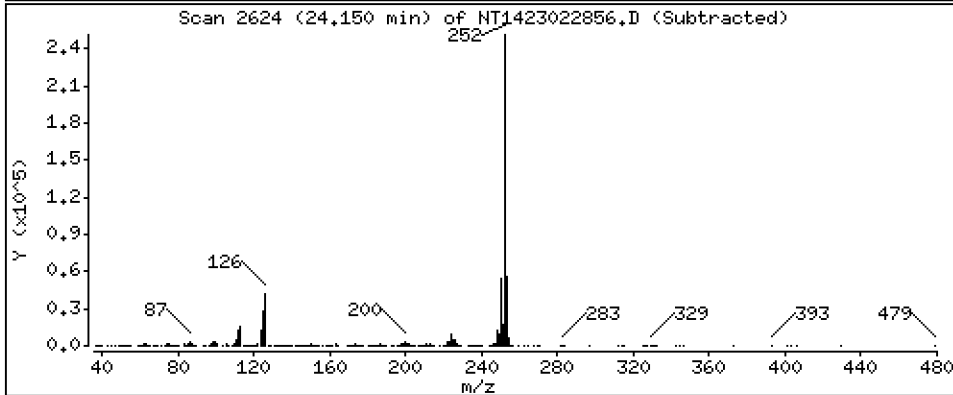
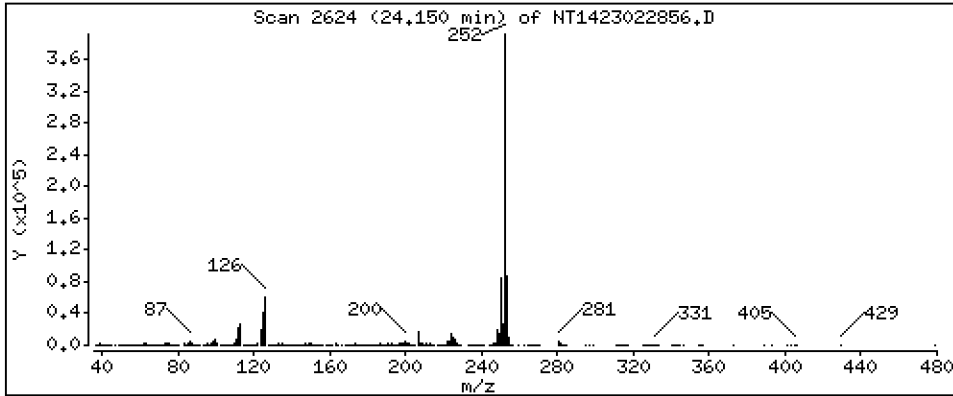
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 6,596 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

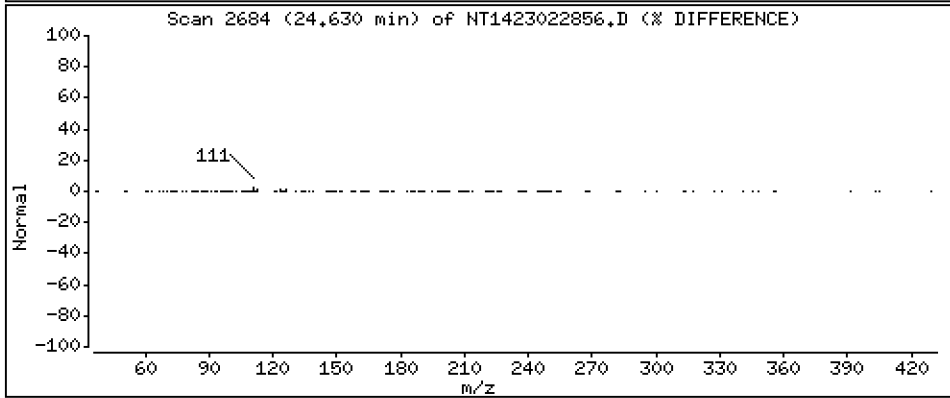
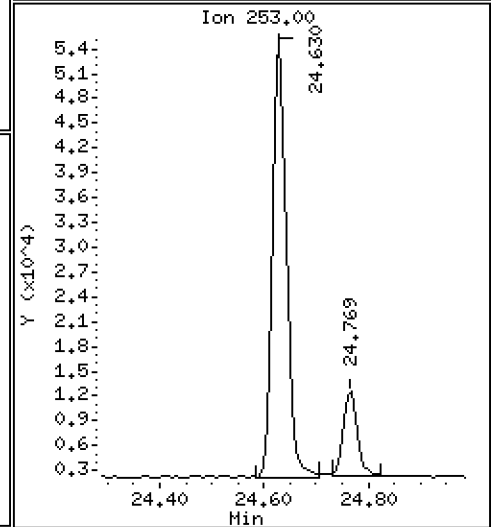
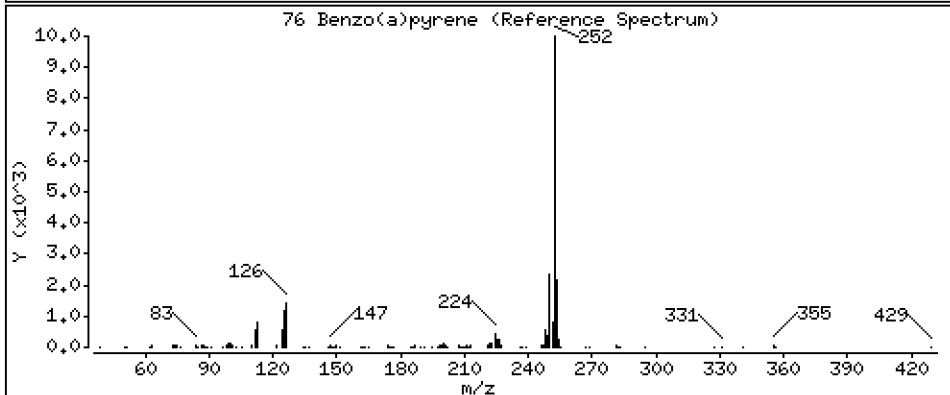
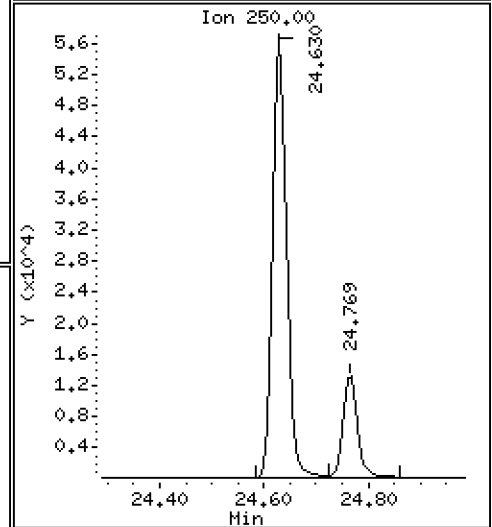
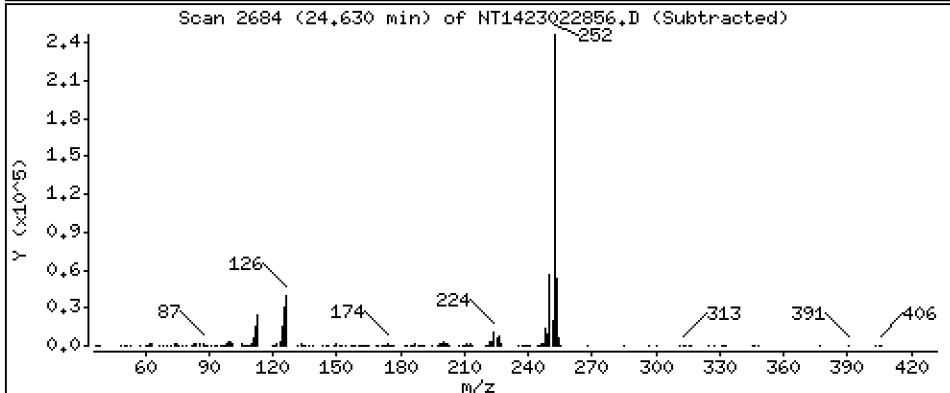
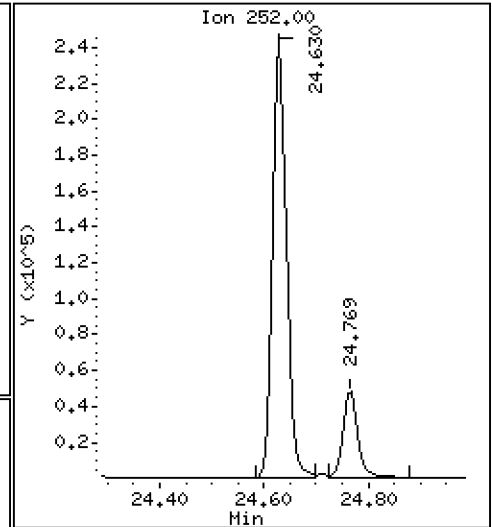
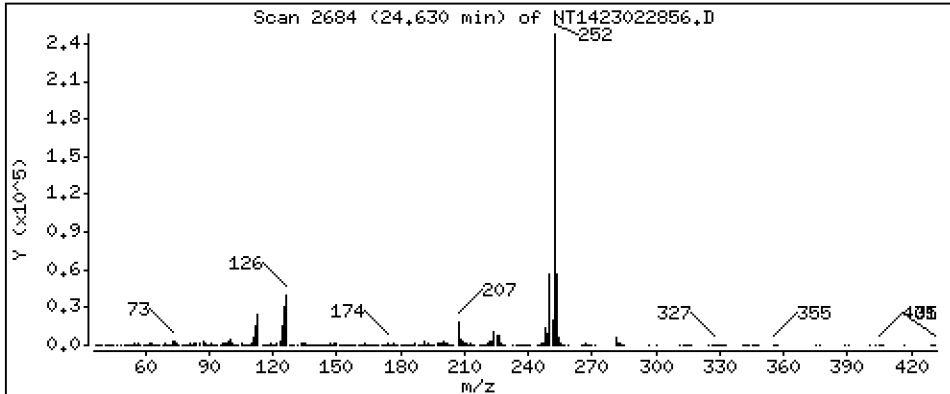
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 5,448 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

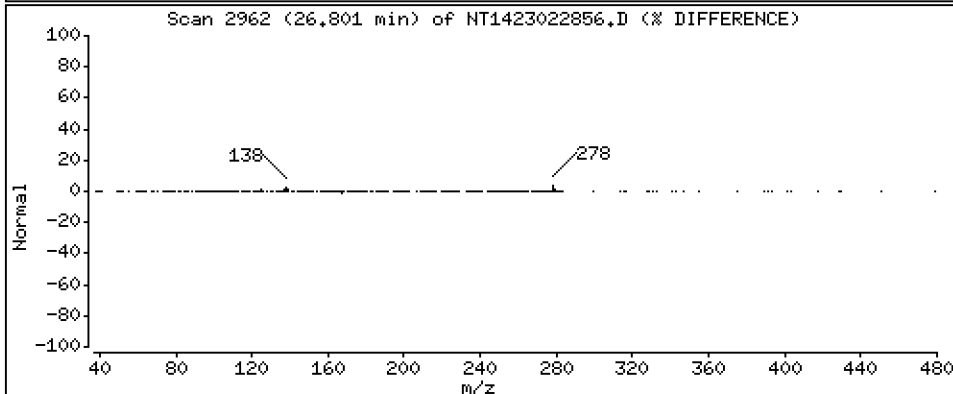
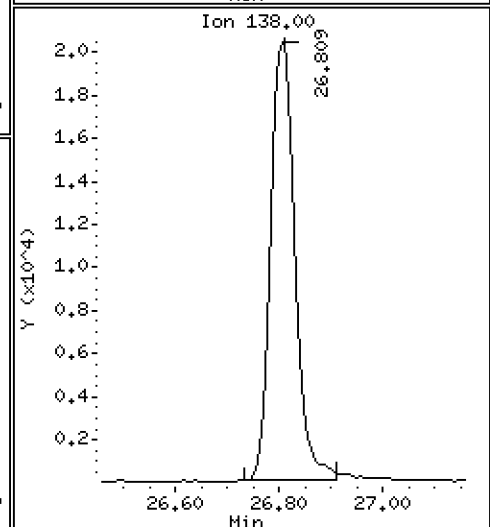
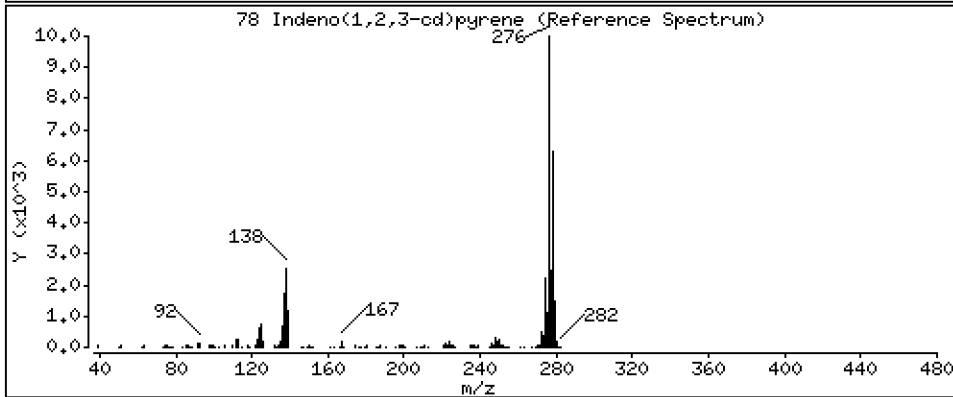
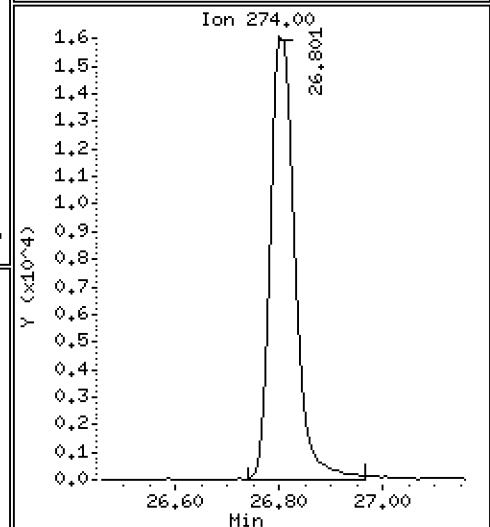
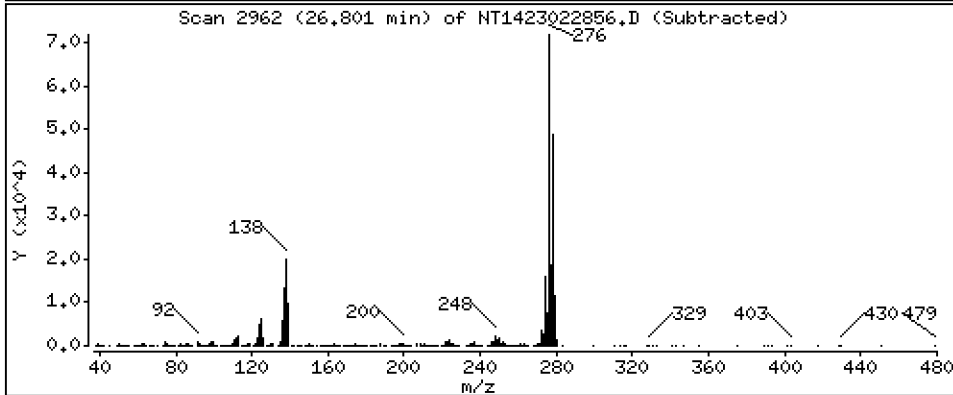
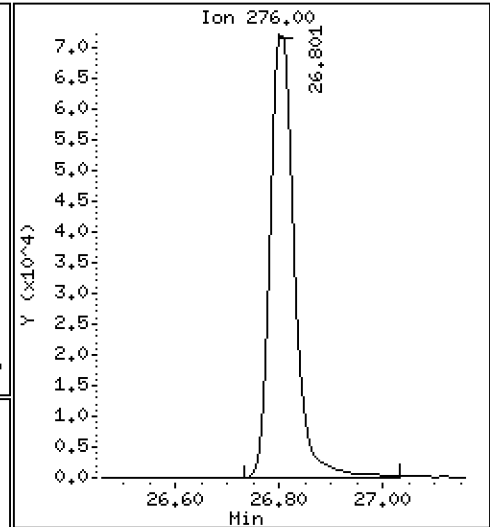
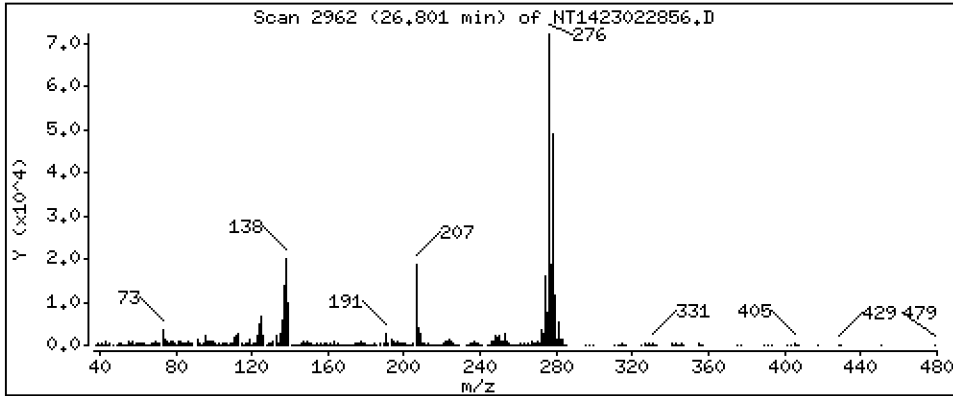
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 2,258 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

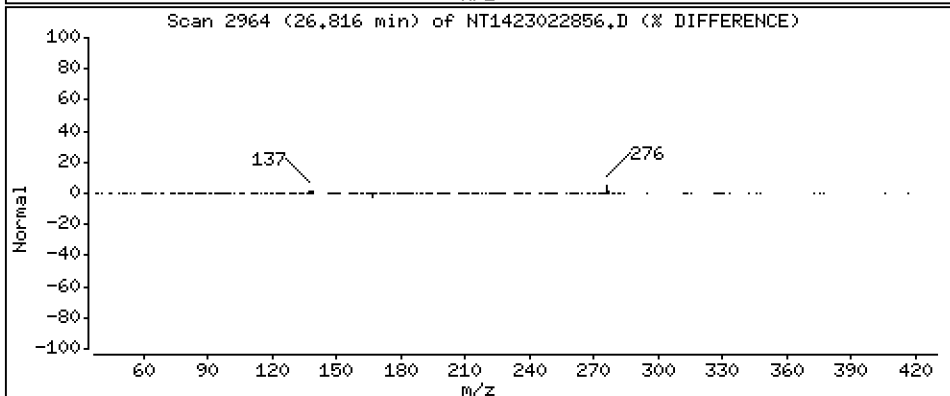
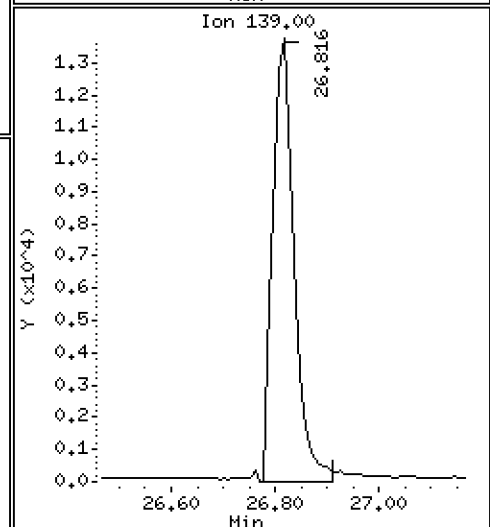
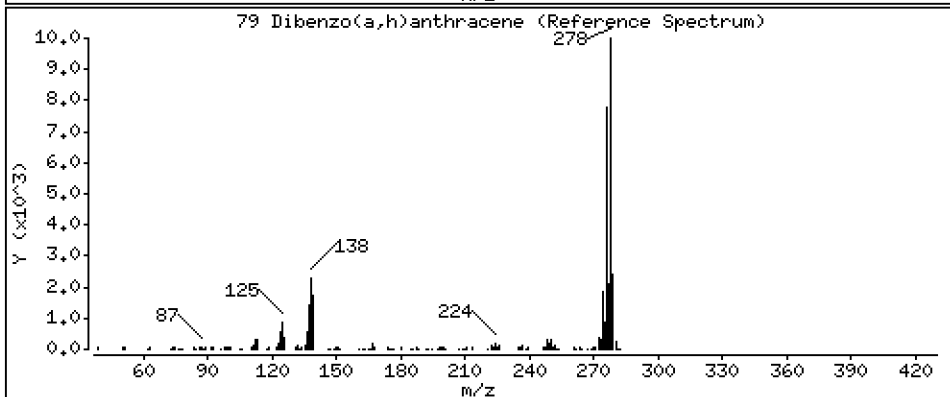
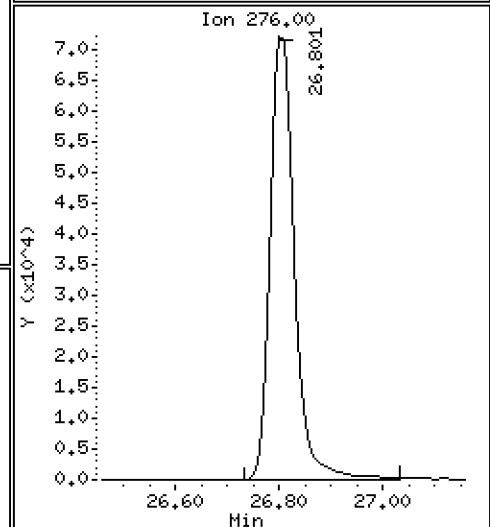
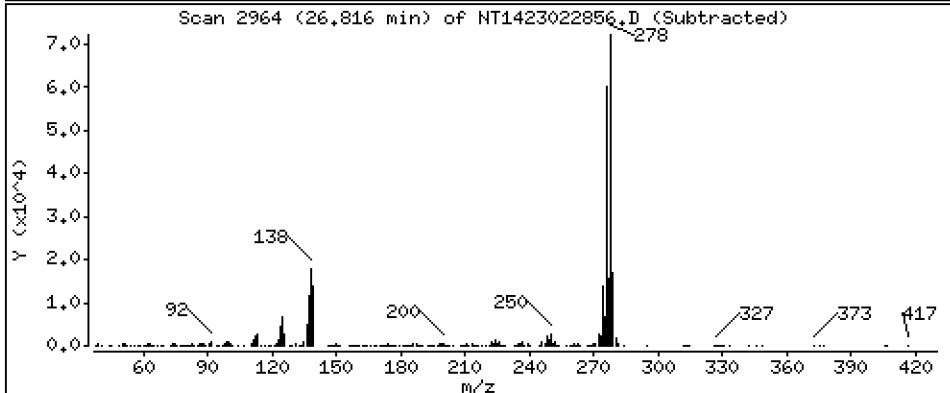
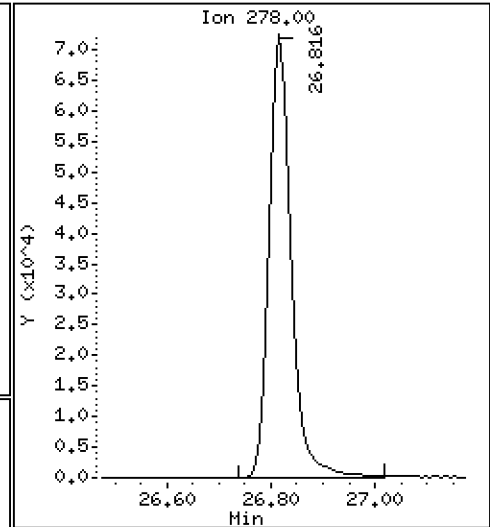
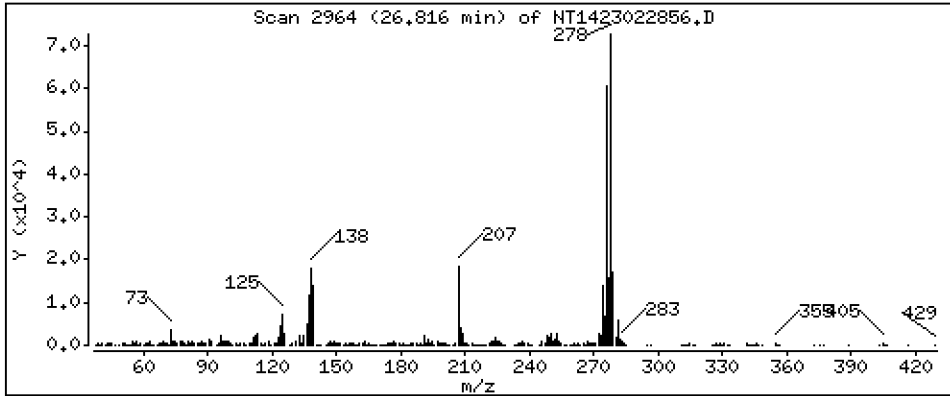
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 2,440 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

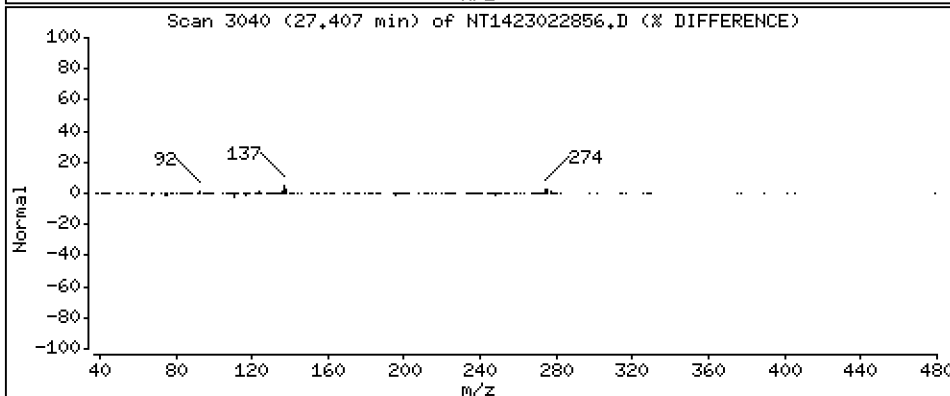
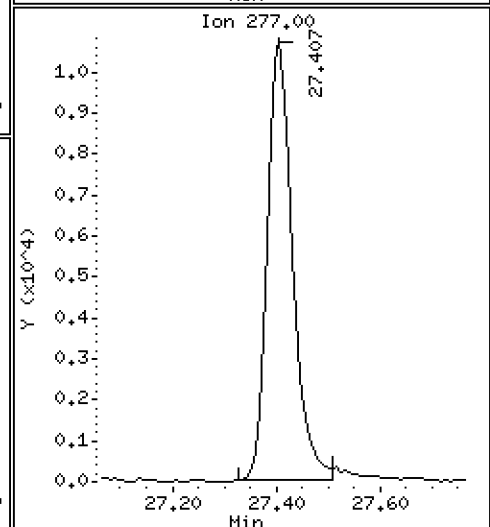
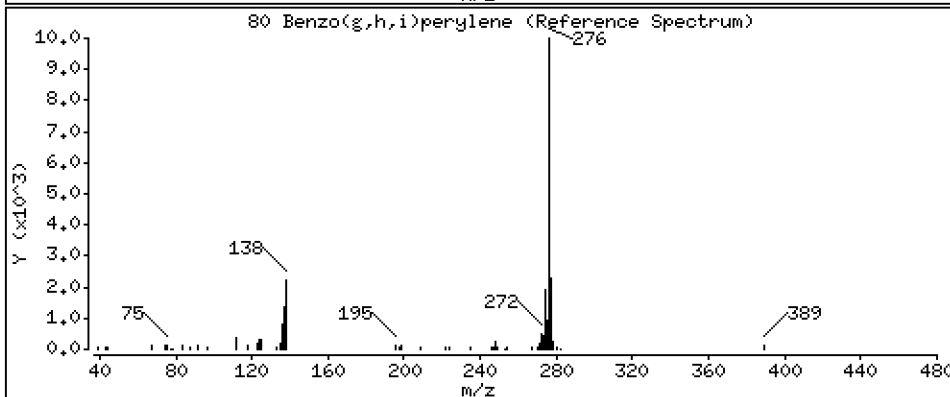
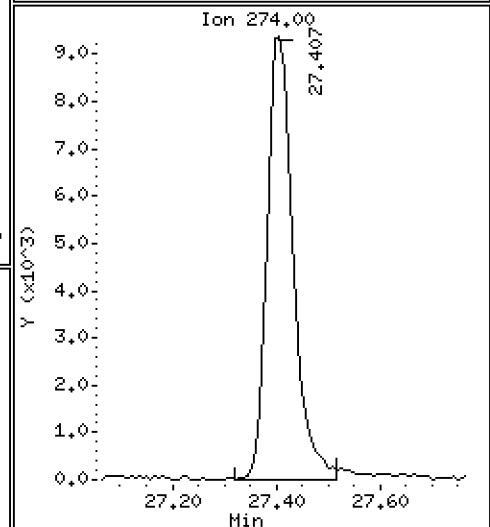
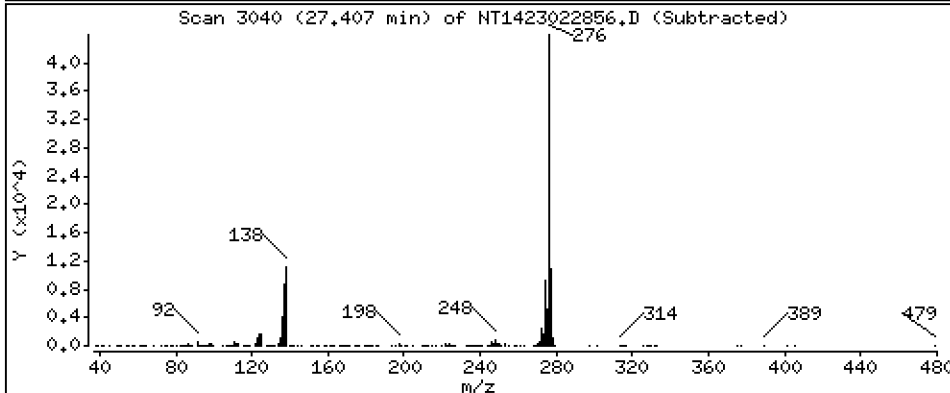
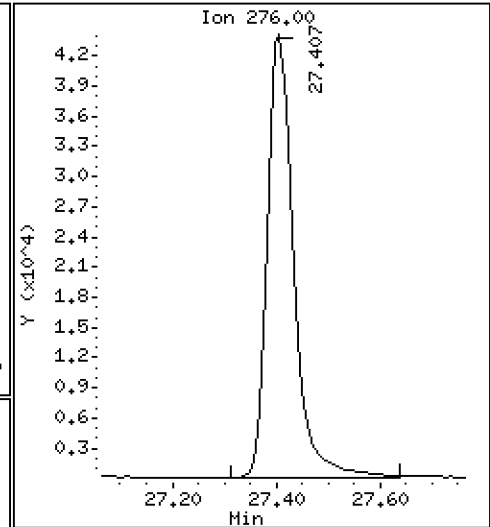
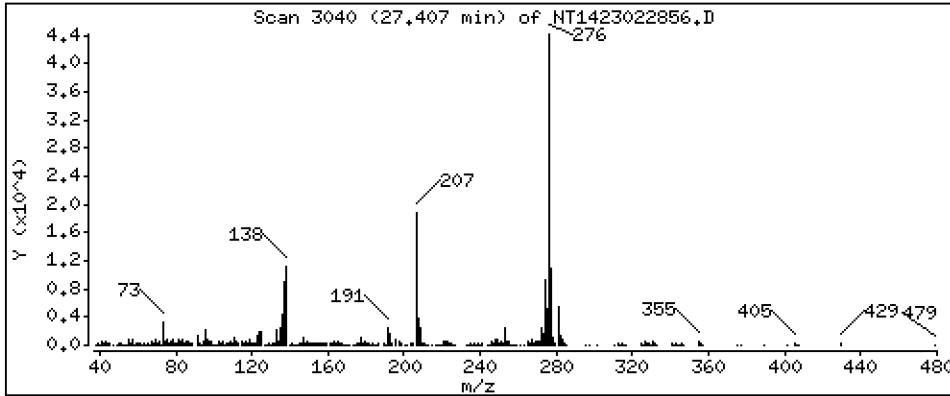
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 1,737 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

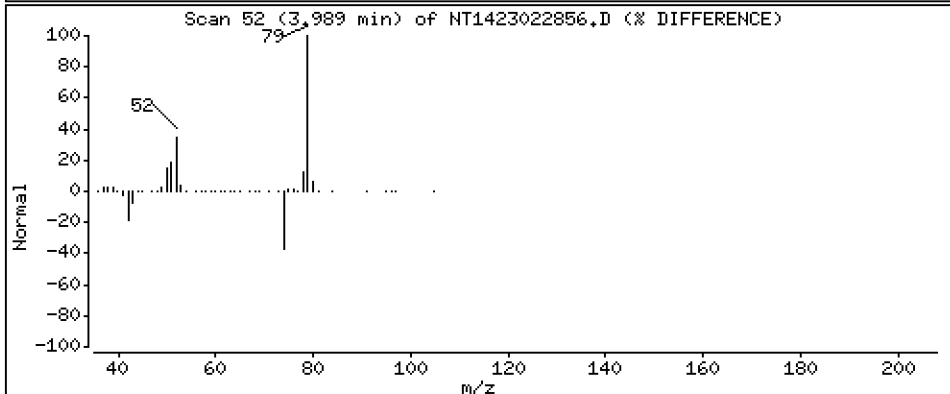
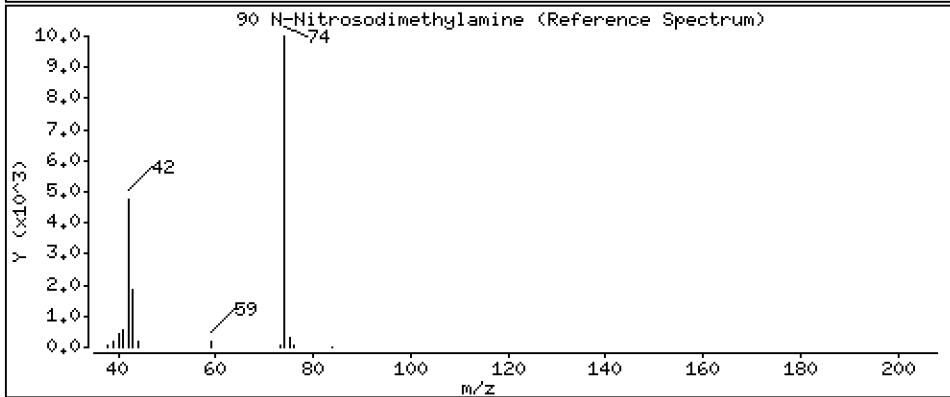
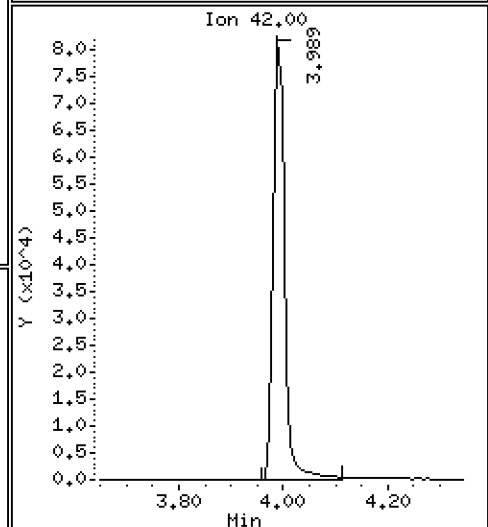
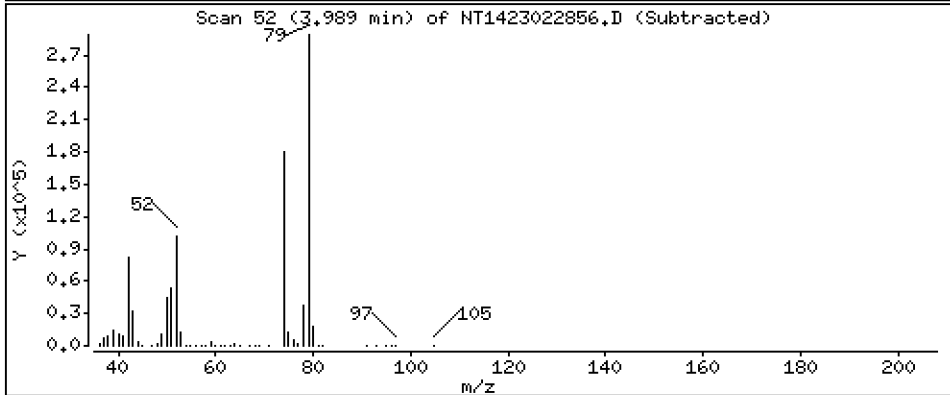
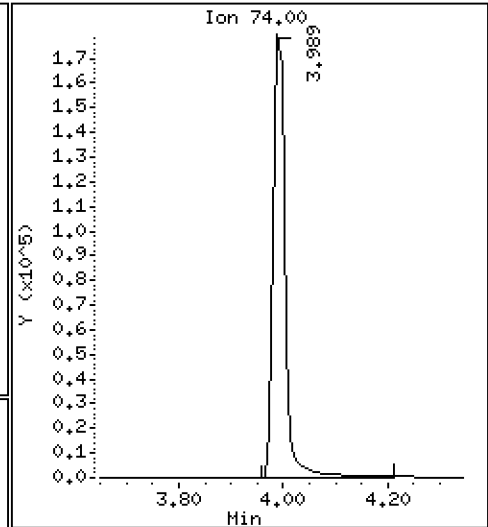
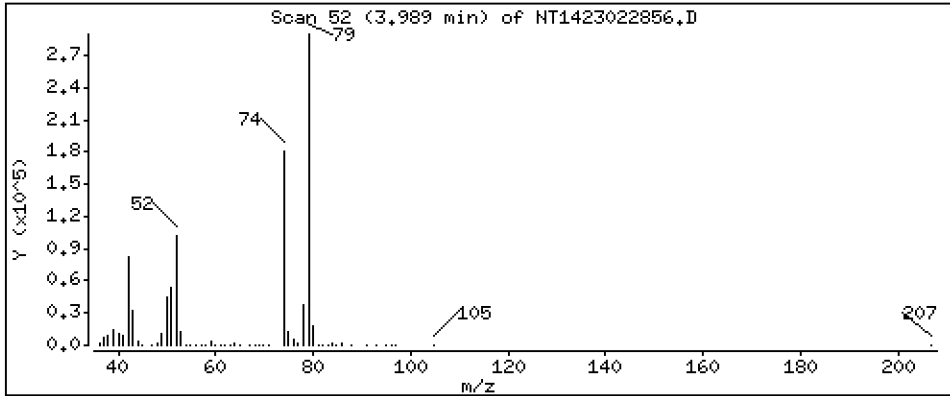
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 11,50 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

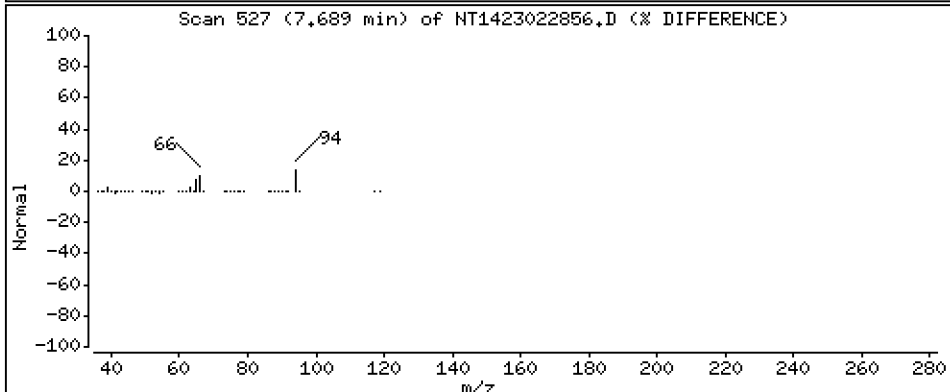
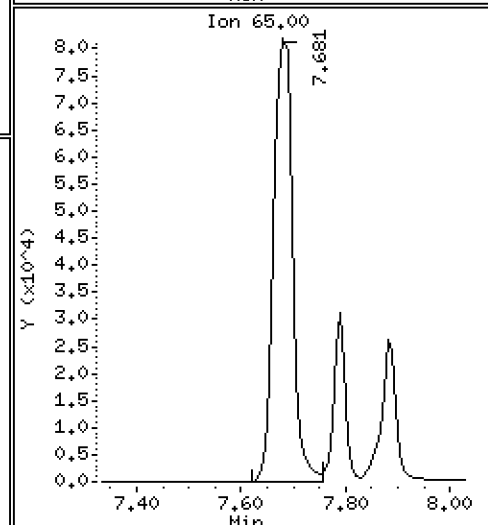
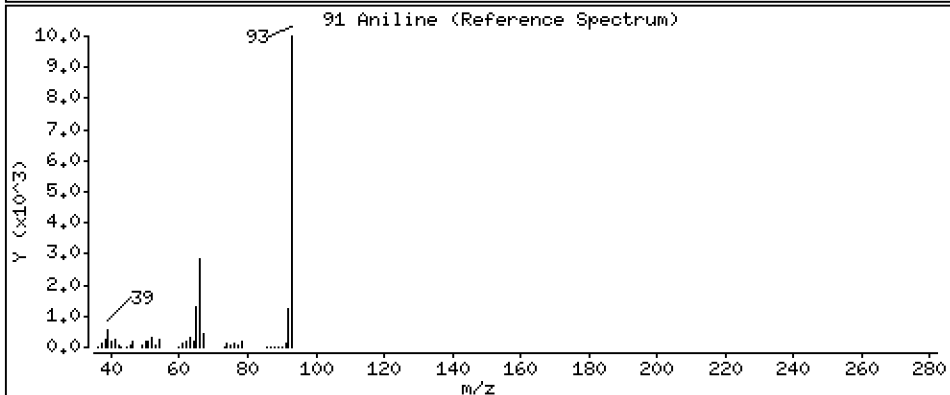
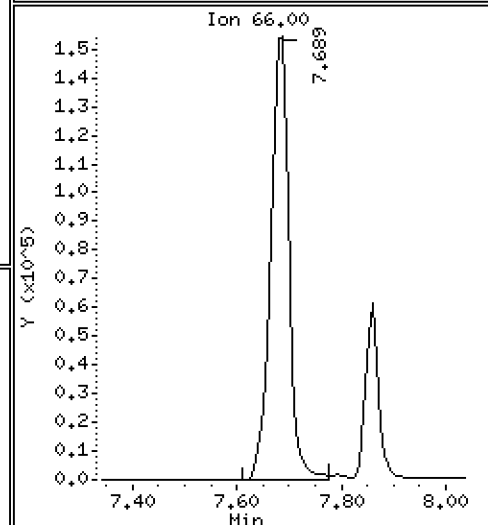
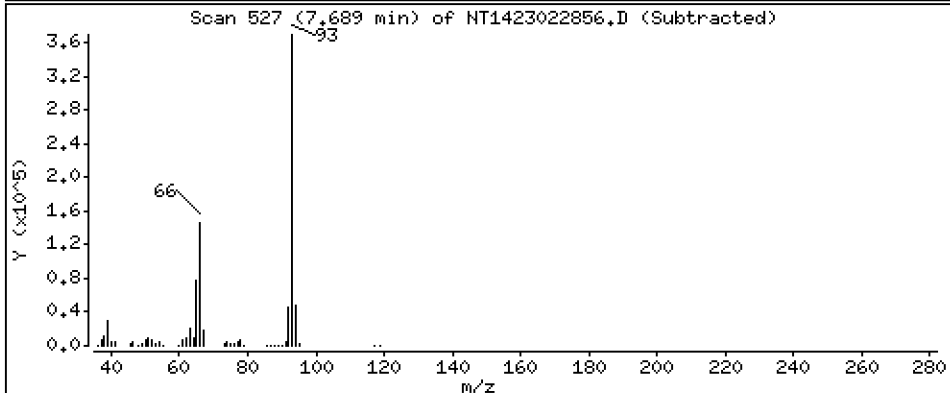
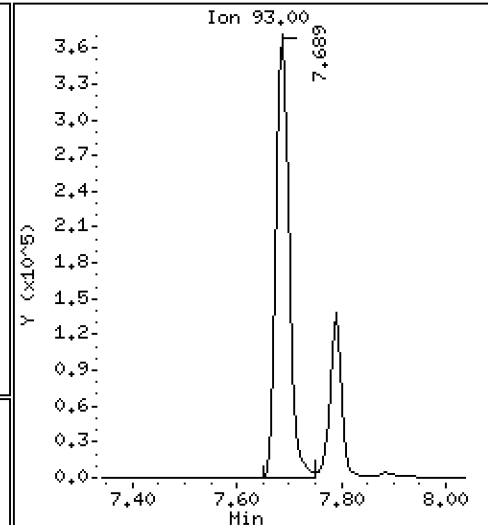
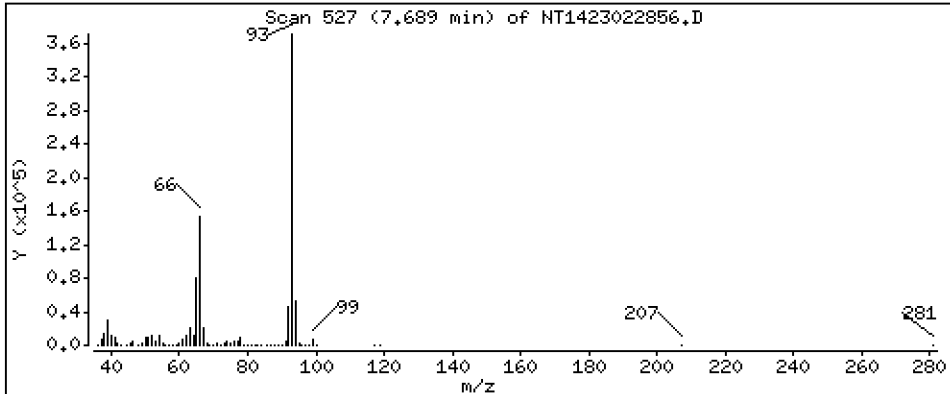
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 11,05 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

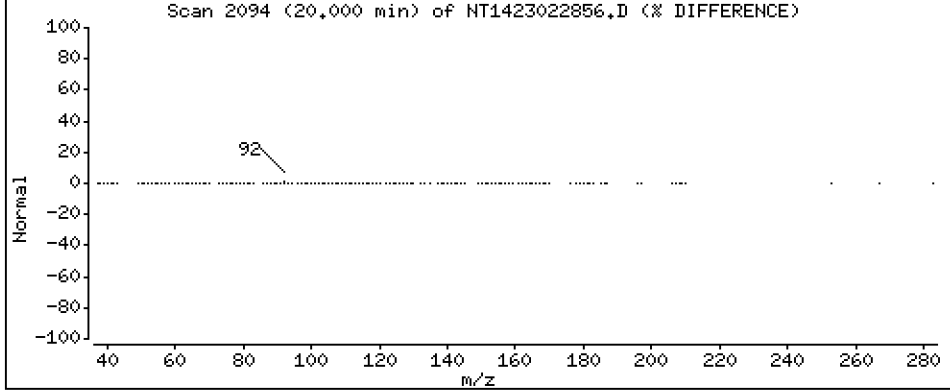
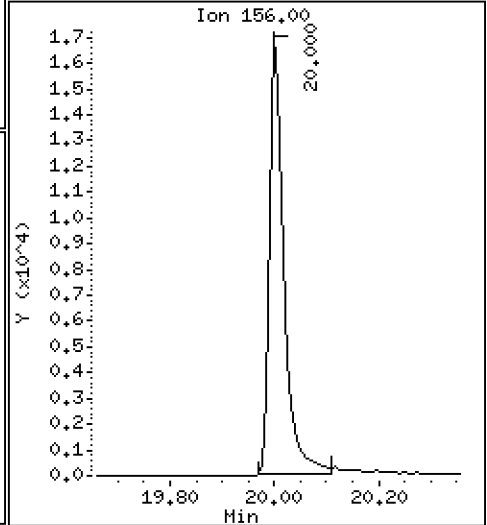
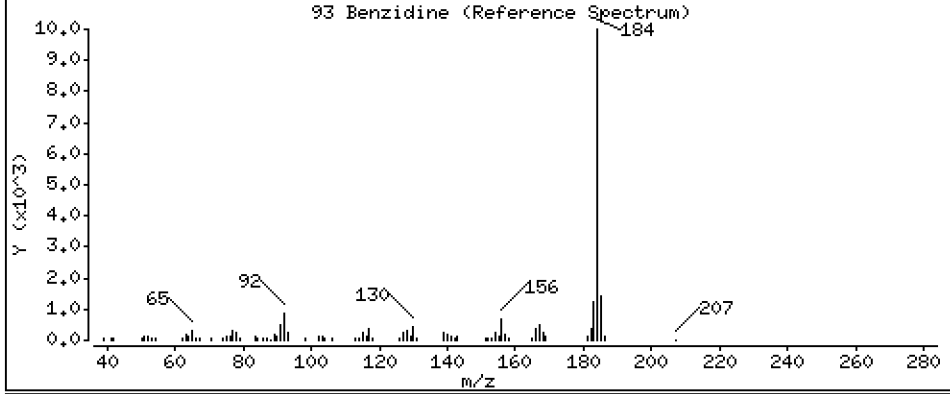
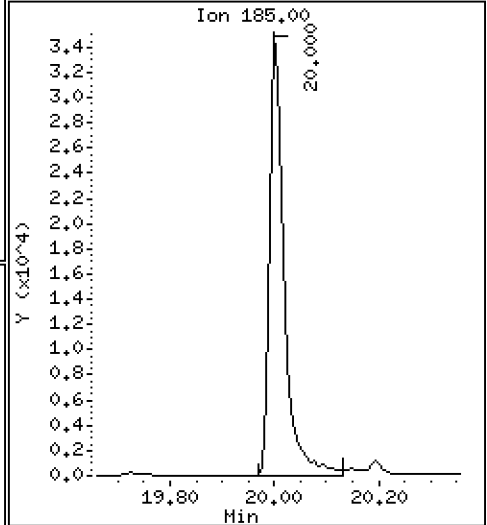
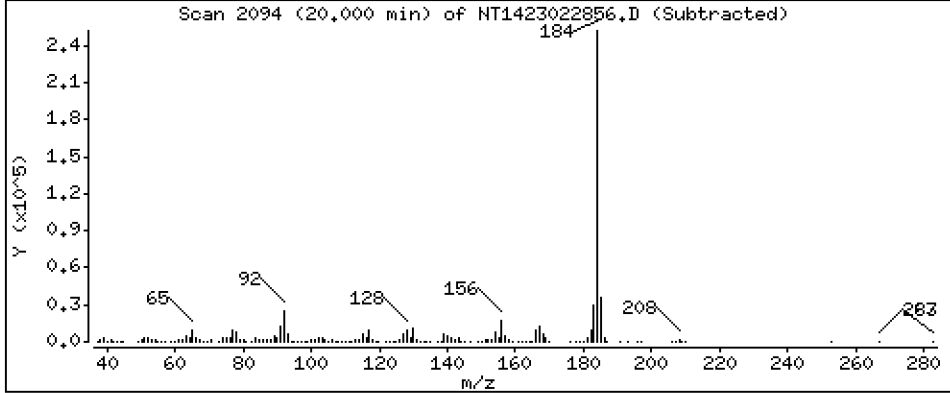
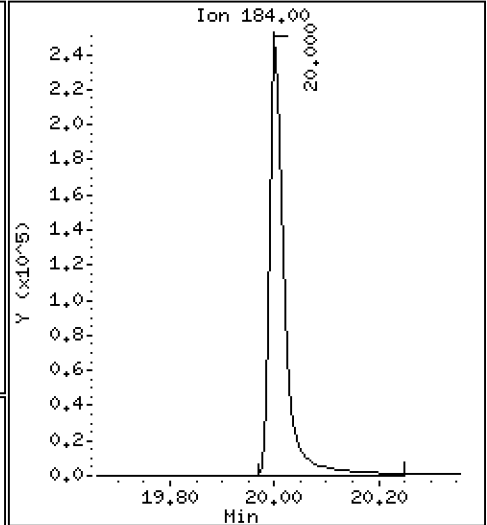
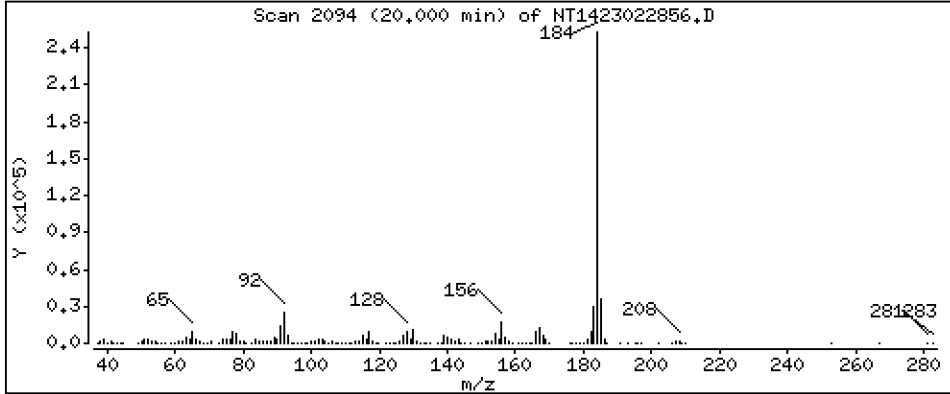
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 7,404 ug/mL





Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

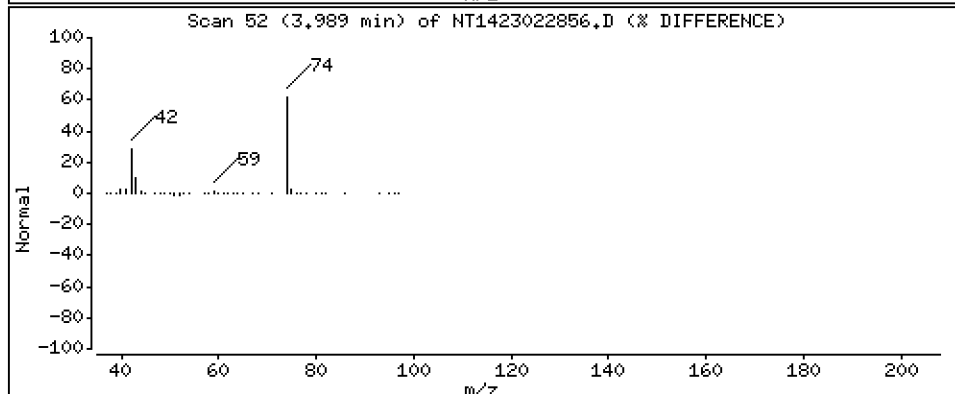
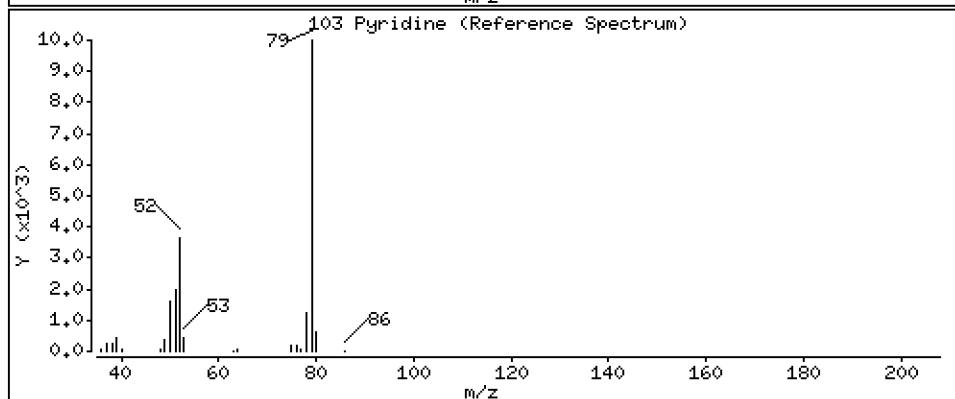
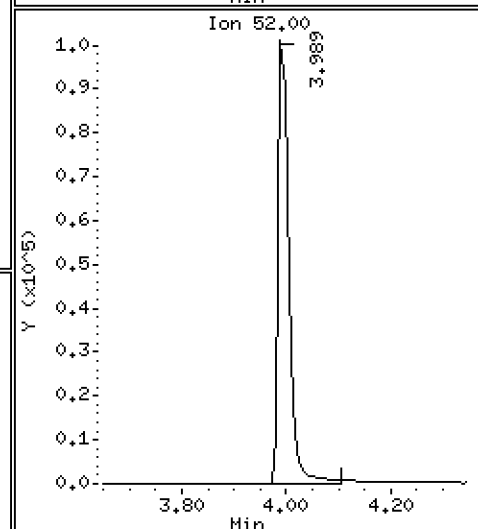
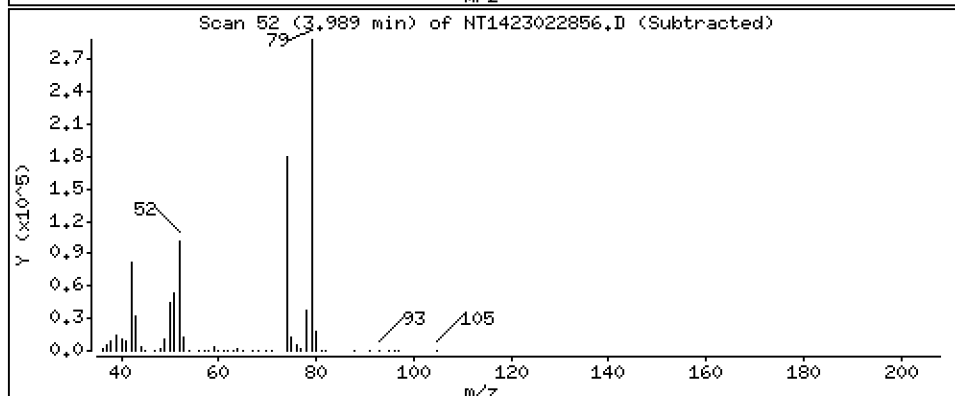
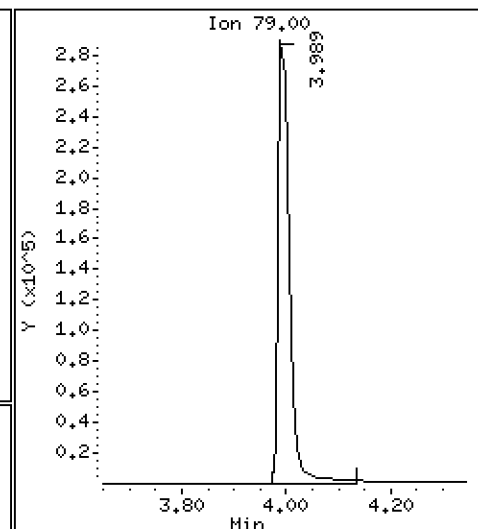
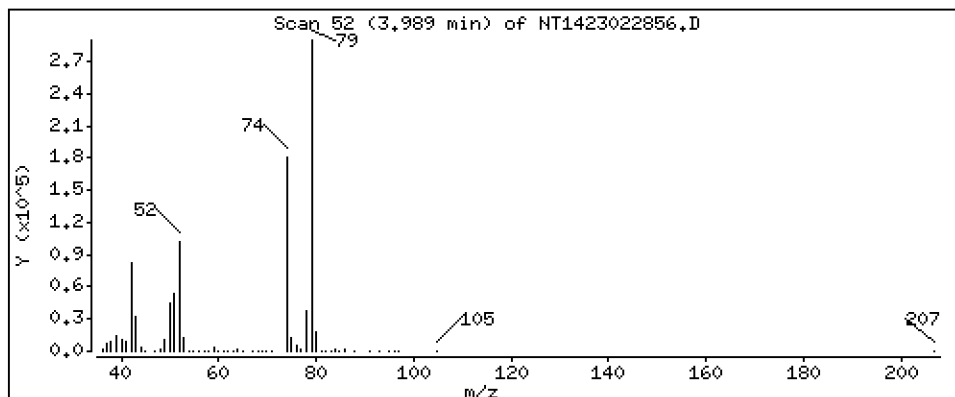
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 5,604 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

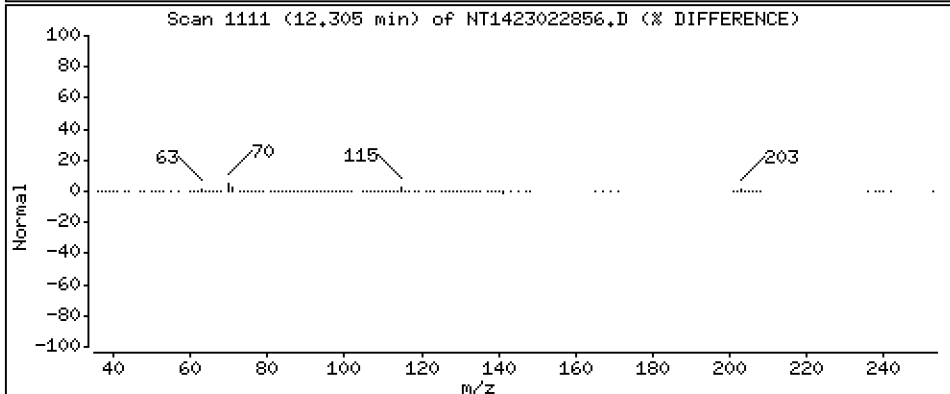
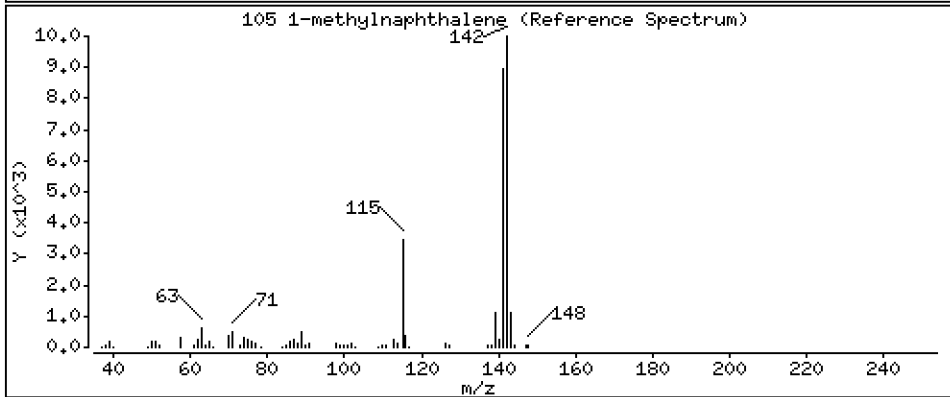
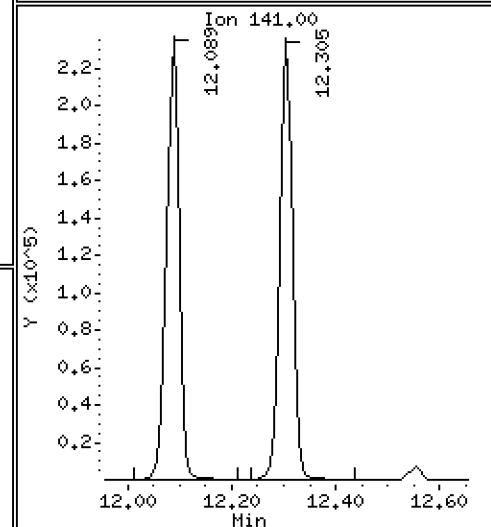
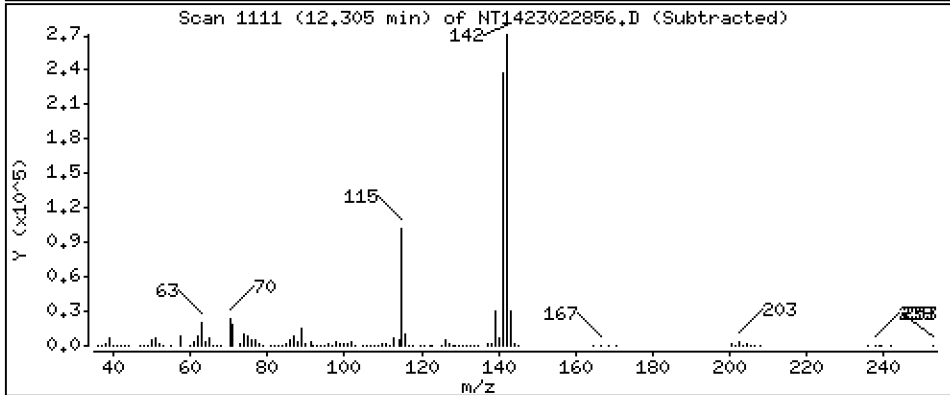
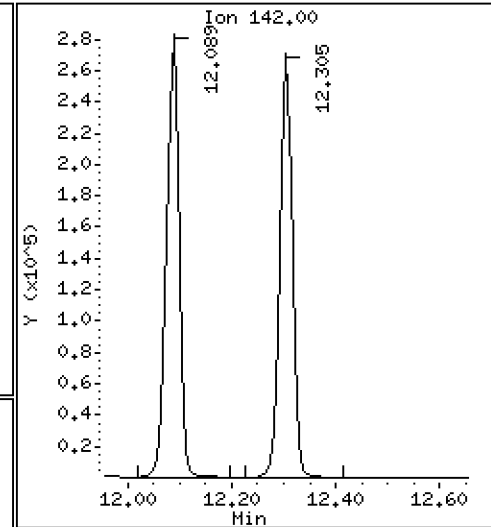
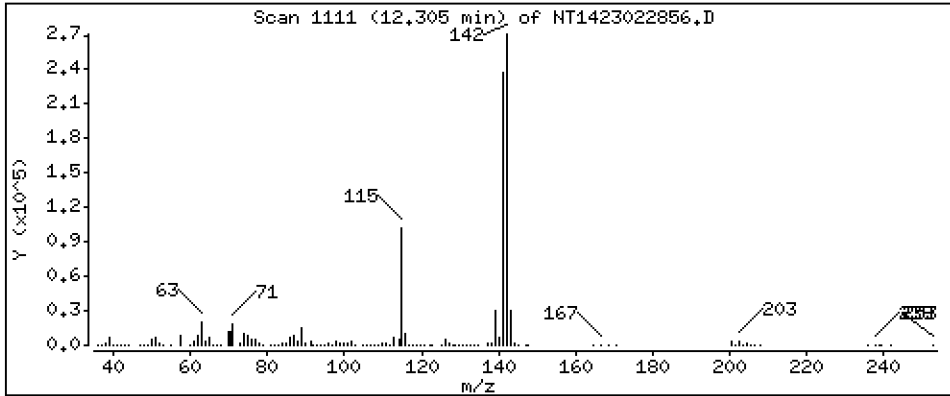
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 5,040 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

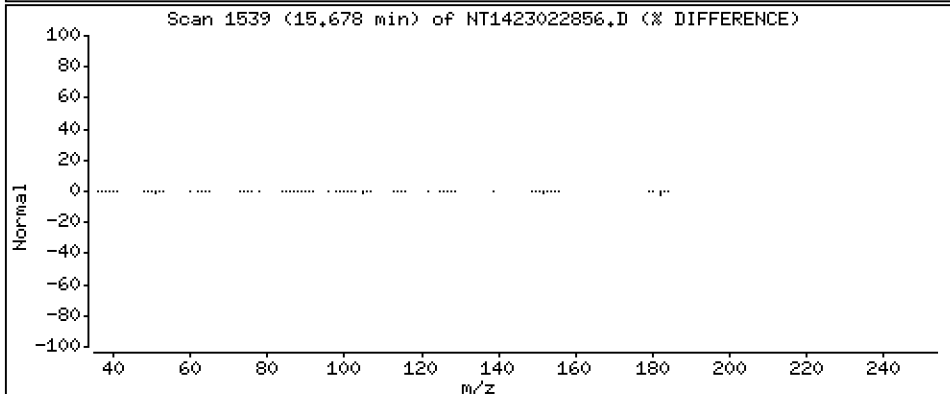
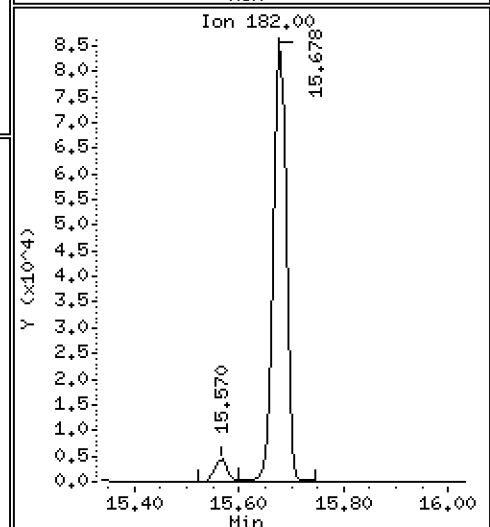
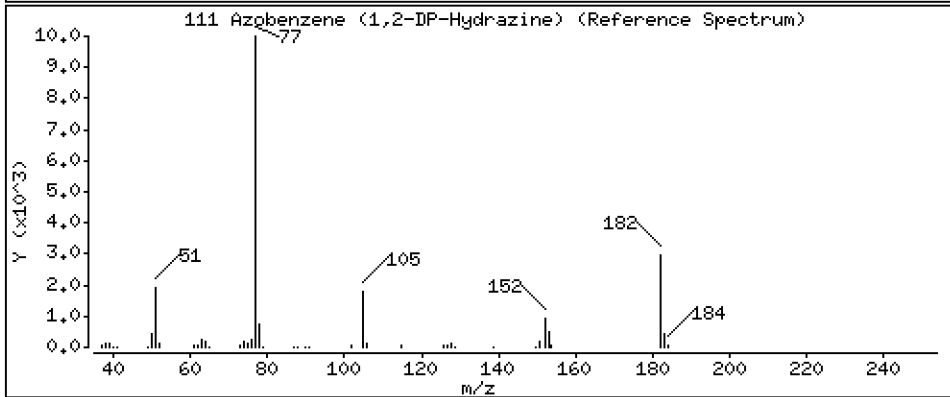
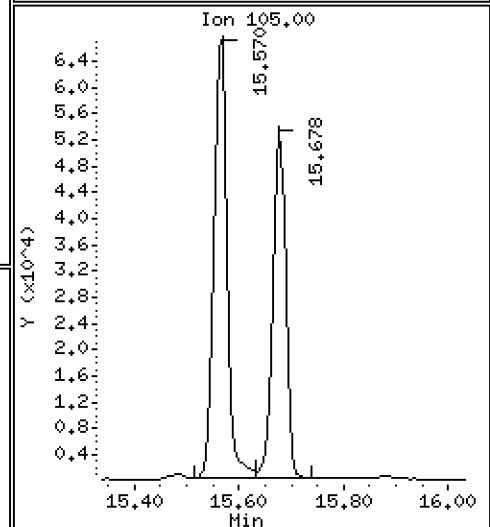
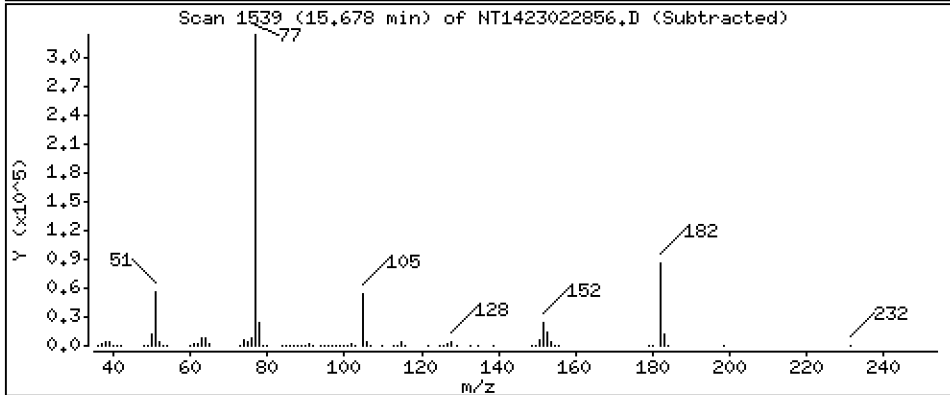
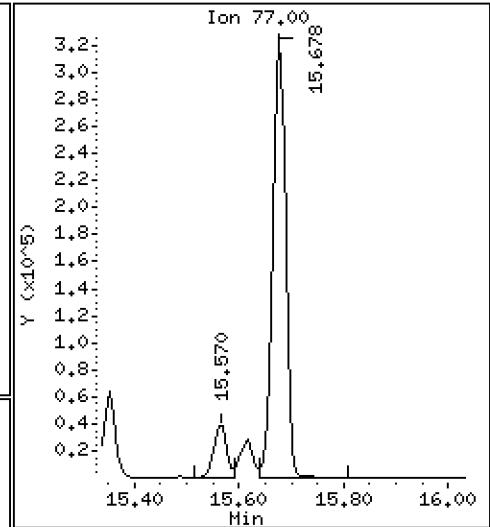
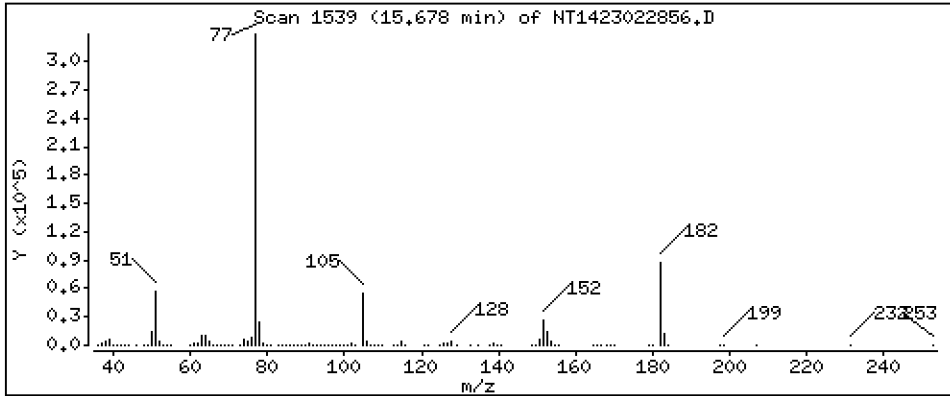
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 5,723 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

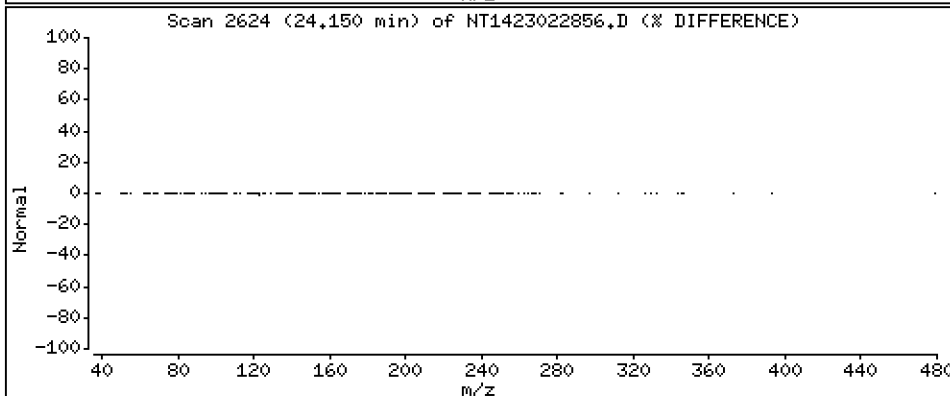
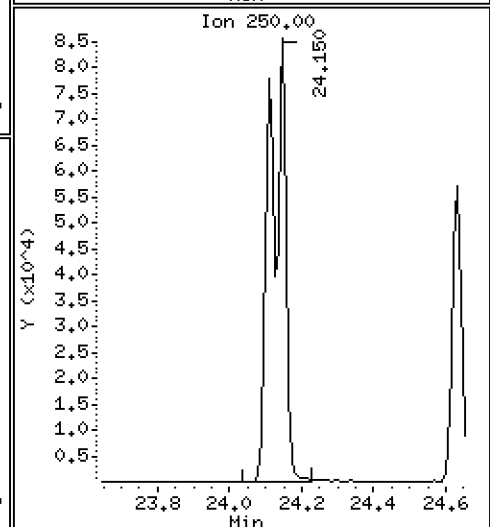
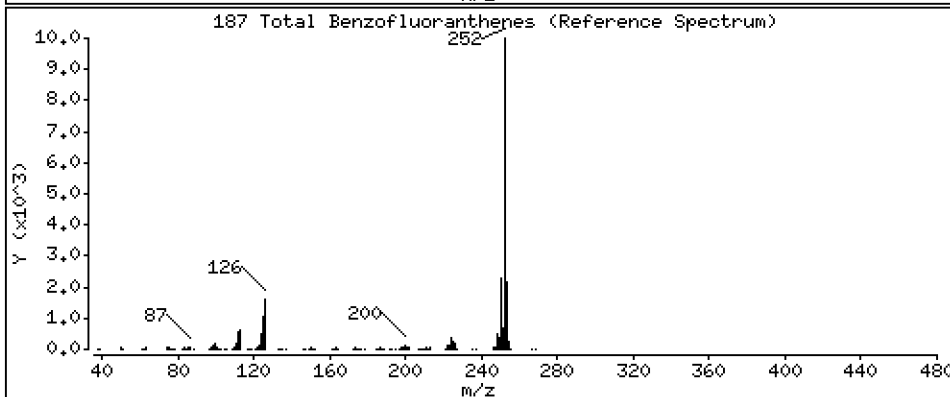
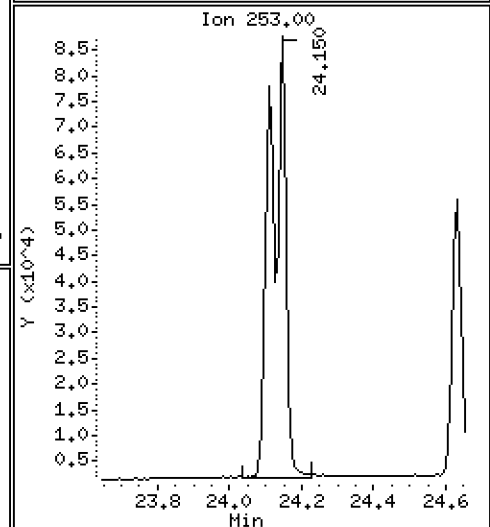
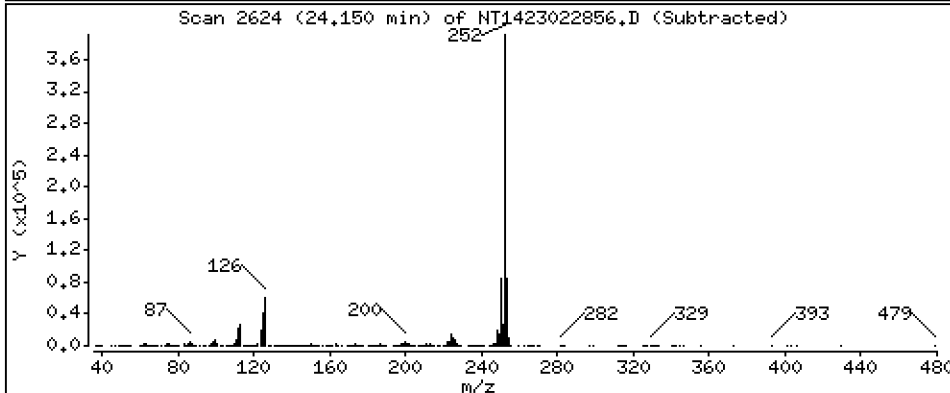
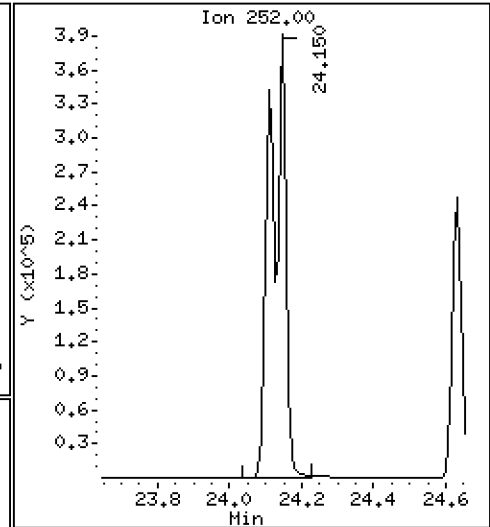
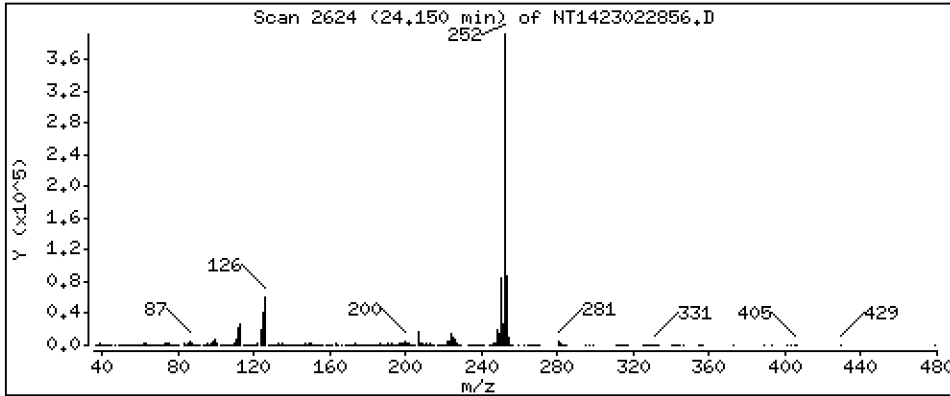
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 12,57 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

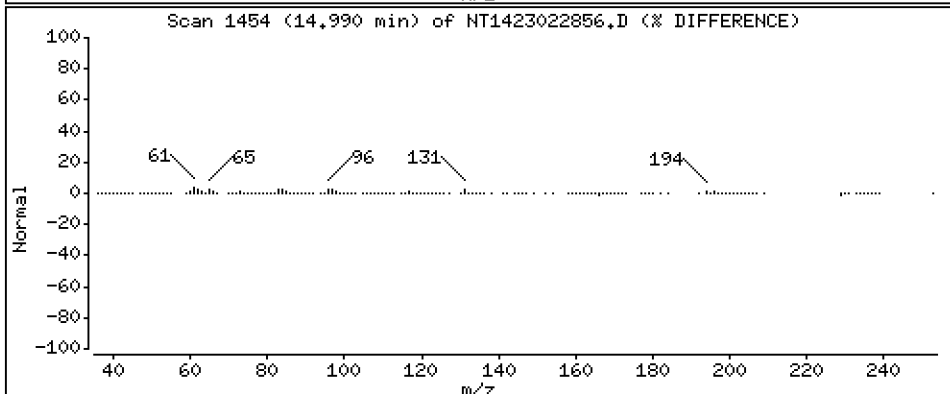
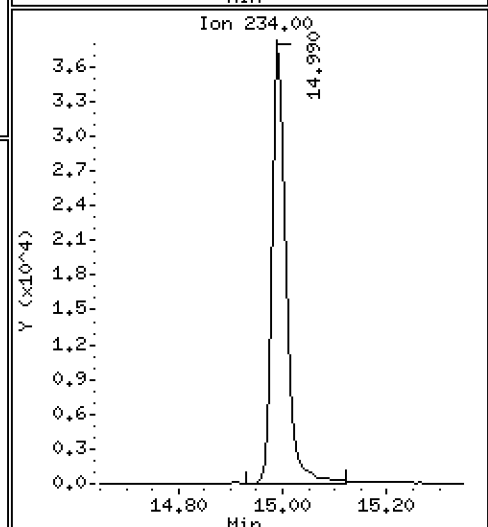
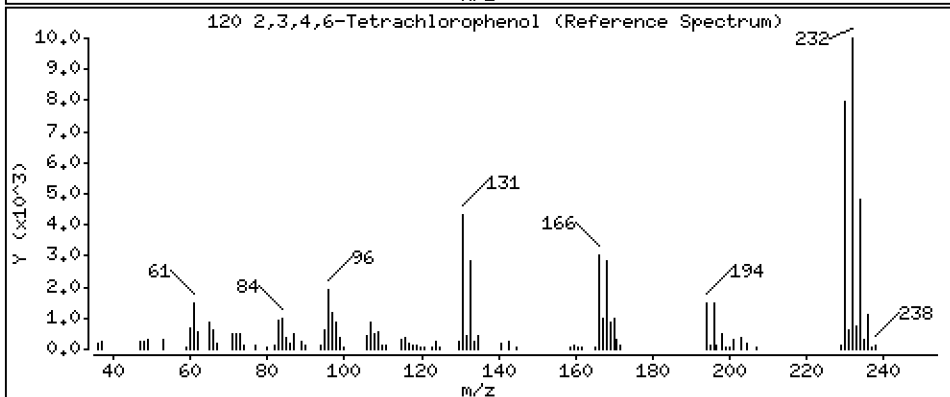
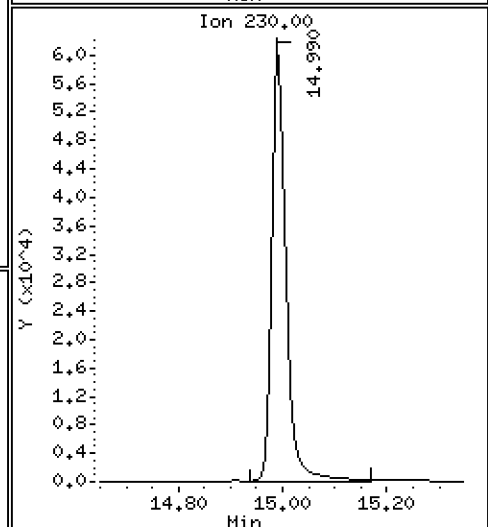
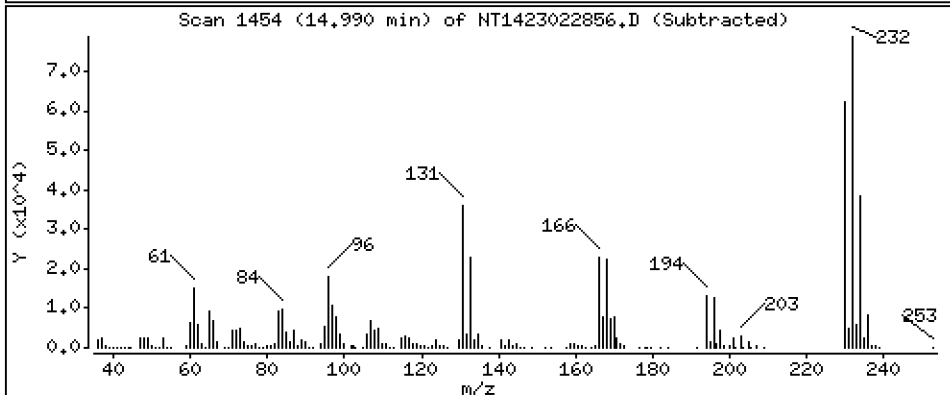
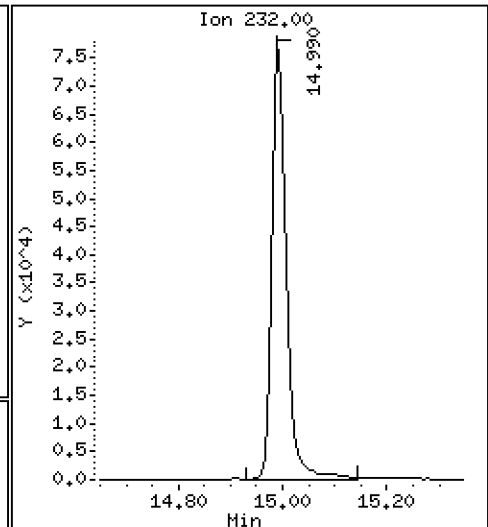
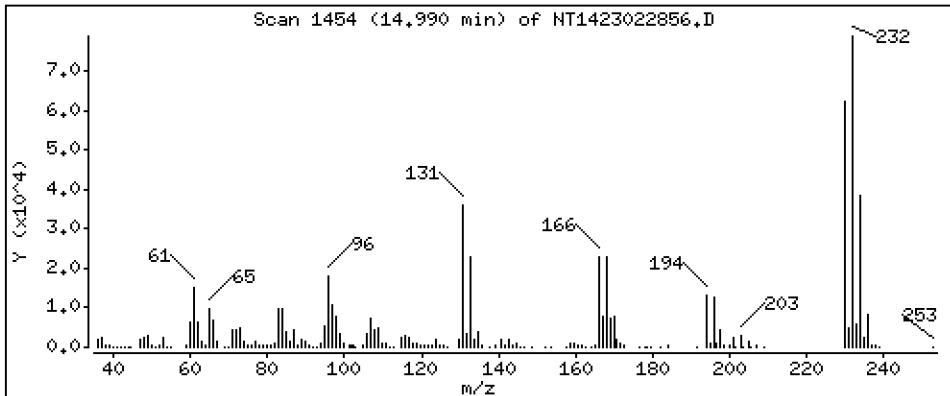
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 4,912 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022856.D  
 Lab Smp Id: SLB0374-CCV7  
 Inj Date : 02-MAR-2023 10:41 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-CCV7  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 11-Mar-2023 13:20 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |           |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|-----------|
|                                 |       |     |        |        |         |          | ON-COLUMN      | FINAL     |
|                                 | MASS  |     |        |        |         |          | (ug/mL)        | (ug/mL)   |
| \$ 1 2-Fluorophenol             | 112   |     | 6.058  | 6.066  | (0.738) | 311849   | 9.18658        | 9.187     |
| \$ 2 Phenol-d5                  | 99    |     | 7.650  | 7.650  | (0.932) | 433984   | 9.00454        | 9.005     |
| 3 Phenol                        | 94    |     | 7.665  | 7.673  | (0.934) | 324324   | 5.63989        | 5.640     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.859  | 7.858  | (0.958) | 323332   | 7.88974        | 7.890     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.789  | 7.789  | (0.949) | 206679   | 5.29064        | 5.291     |
| 6 2-Chlorophenol                | 128   |     | 7.889  | 7.889  | (0.961) | 235515   | 5.56014        | 5.560     |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.137  | 8.137  | (0.991) | 232671   | 4.98437        | 4.984     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.207  | 8.207  | (1.000) | 125192   | 4.00000        |           |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.230  | 8.238  | (1.003) | 226307   | 4.90531        | 4.905     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.556  | 8.556  | (1.043) | 151918   | 4.92405        | 4.924     |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.579  | 8.579  | (1.045) | 220650   | 4.98778        | 4.988     |
| 11 Benzyl alcohol               | 108   |     | 8.517  | 8.517  | (1.038) | 135164   | 5.30574        | 5.306     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.797  | 8.797  | (1.072) | 62298    | 5.22181        | 5.222 (M) |
| 13 2-Methylphenol               | 108   |     | 8.758  | 8.758  | (1.067) | 213333   | 5.87232        | 5.872     |
| 17 Hexachloroethane             | 117   |     | 9.154  | 9.162  | (1.115) | 85124    | 4.91315        | 4.913     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.053  | 9.061  | (1.103) | 171342   | 6.19449        | 6.194     |
| 15 4-Methylphenol               | 108   |     | 9.030  | 9.037  | (1.100) | 217087   | 5.24228        | 5.242     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.294  | 9.293  | (0.872) | 268690   | 5.98539        | 5.985     |
| 19 Nitrobenzene                 | 77    |     | 9.332  | 9.332  | (0.876) | 255427   | 5.92117        | 5.921     |
| 20 Isophorone                   | 82    |     | 9.782  | 9.782  | (0.918) | 366494   | 5.53791        | 5.538     |
| 21 2-Nitrophenol                | 139   |     | 9.953  | 9.953  | (0.934) | 119357   | 5.30856        | 5.309     |
| 22 2,4-Dimethylphenol           | 107   |     | 10.054 | 10.054 | (0.943) | 423899   | 10.7790        | 10.78     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.232 | 10.232 | (0.960) | 232677   | 5.36500        | 5.365     |
| 24 Benzoic acid                 | 105   |     | 10.372 | 10.372 | (0.973) | 406506   | 26.0837        | 26.08 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | 10.418 | 10.418 | (0.978) | 372571   | 9.79809        | 9.798     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.580 | 10.580 | (0.993) | 207032   | 4.65815        | 4.658     |
| * 27 Naphthalene-d8             | 136   |     | 10.657 | 10.665 | (1.000) | 458907   | 4.00000        |           |
| 28 Naphthalene                  | 128   |     | 10.696 | 10.704 | (1.004) | 616644   | 5.03759        | 5.038     |
| 29 4-Chloroaniline              | 127   |     | 10.858 | 10.866 | (1.019) | 559513   | 10.6866        | 10.69     |
| 30 Hexachlorobutadiene          | 225   |     | 11.067 | 11.074 | (1.038) | 120616   | 4.44742        | 4.447     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.856 | 11.856 | (1.112) | 396781   | 11.2089        | 11.21     |
| 32 2-Methylnaphthalene          | 142   |     | 12.088 | 12.088 | (1.134) | 461491   | 5.09103        | 5.091     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.553 | 12.553 | (0.881) | 93402    | 3.26993        | 3.270     |

| Compounds                         | QUANT SIG |        |        |         |          | CONCENTRATIONS       |                  |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 12.731 | 12.731 | (0.894) | 280785   | 10.5848              | 10.58            |
| 35 2,4,5-Trichlorophenol          | 196       | 12.808 | 12.808 | (0.899) | 318827   | 11.1161              | 11.12            |
| § 36 2-Fluorobiphenyl             | 172       | 12.885 | 12.885 | (0.904) | 530369   | 5.01791              | 5.018            |
| 37 2-Chloronaphthalene            | 162       | 13.071 | 13.071 | (0.917) | 428364   | 5.05572              | 5.056            |
| 38 2-Nitroaniline                 | 65        | 13.357 | 13.365 | (0.938) | 286025   | 12.9436              | 12.94            |
| 39 Dimethylphthalate              | 163       | 13.806 | 13.806 | (0.969) | 453940   | 5.31444              | 5.314            |
| 40 Acenaphthylene                 | 152       | 13.930 | 13.930 | (0.978) | 661440   | 5.32018              | 5.320            |
| 41 2,6-Dinitrotoluene             | 165       | 13.930 | 13.938 | (0.978) | 213300   | 10.6564              | 10.66            |
| * 42 Acenaphthene-d10             | 164       | 14.247 | 14.247 | (1.000) | 271560   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138       | 14.217 | 14.216 | (0.998) | 226924   | 11.0613              | 11.06            |
| 44 Acenaphthene                   | 153       | 14.309 | 14.309 | (1.004) | 397863   | 4.99824              | 4.998            |
| 45 2,4-Dinitrophenol              | 184       | 14.425 | 14.425 | (1.012) | 232450   | 17.6465              | 17.65            |
| 46 Dibenzofuran                   | 168       | 14.642 | 14.642 | (1.028) | 628885   | 4.96526              | 4.965            |
| 47 4-Nitrophenol                  | 109       | 14.595 | 14.595 | (1.024) | 99638    | 9.55634              | 9.556            |
| 48 2,4-Dinitrotoluene             | 165       | 14.734 | 14.734 | (1.034) | 299294   | 10.3866              | 10.39            |
| 50 Diethylphthalate               | 149       | 15.260 | 15.260 | (1.071) | 439682   | 5.50459              | 5.505            |
| 49 Fluorene                       | 166       | 15.345 | 15.345 | (1.077) | 540248   | 5.06247              | 5.062            |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.353 | 15.361 | (1.078) | 260762   | 4.59242              | 4.592            |
| 52 4-Nitroaniline                 | 138       | 15.484 | 15.484 | (1.087) | 210091   | 10.3309              | 10.33            |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.569 | 15.569 | (0.902) | 315204   | 18.8255              | 18.83            |
| 54 N-Nitrosodiphenylamine         | 169       | 15.615 | 15.615 | (0.905) | 333919   | 5.32948              | 5.329            |
| § 55 2,4,6-Tribromophenol         | 330       | 15.878 | 15.885 | (1.114) | 112228   | 7.45172              | 7.452            |
| 56 4-Bromophenyl-phenylether      | 248       | 16.348 | 16.348 | (0.948) | 141820   | 5.14856              | 5.149            |
| 57 Hexachlorobenzene              | 284       | 16.634 | 16.642 | (0.964) | 151312   | 4.99624              | 4.996            |
| 58 Pentachlorophenol              | 266       | 17.013 | 17.013 | (0.986) | 156210   | 10.4427              | 10.44            |
| * 59 Phenanthrene-d10             | 188       | 17.253 | 17.253 | (1.000) | 498585   | 4.00000              |                  |
| 60 Phenanthrene                   | 178       | 17.299 | 17.299 | (1.003) | 652694   | 4.92100              | 4.921            |
| 61 Anthracene                     | 178       | 17.392 | 17.392 | (1.008) | 672587   | 5.36401              | 5.364            |
| 62 Carbazole                      | 167       | 17.740 | 17.748 | (1.028) | 565338   | 5.14432              | 5.144            |
| 63 Di-n-butylphthalate            | 149       | 18.592 | 18.599 | (1.078) | 774260   | 5.56817              | 5.568            |
| 64 Fluoranthene                   | 202       | 19.721 | 19.729 | (0.881) | 735693   | 4.79722              | 4.797            |
| 65 Pyrene                         | 202       | 20.147 | 20.154 | (0.900) | 773972   | 4.78680              | 4.787            |
| § 66 Terphenyl-d14                | 244       | 20.479 | 20.479 | (0.915) | 564095   | 4.53120              | 4.531            |
| 67 Butylbenzylphthalate           | 149       | 21.440 | 21.447 | (0.958) | 305278   | 5.44875              | 5.449            |
| 68 Benzo(a)anthracene             | 228       | 22.346 | 22.353 | (0.999) | 736942   | 5.44263              | 5.443            |
| * 69 Chrysene-d12                 | 240       | 22.377 | 22.376 | (1.000) | 404214   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.330 | 22.338 | (0.998) | 758243   | 19.6092              | 19.61            |
| 71 Chrysene                       | 228       | 22.415 | 22.423 | (1.002) | 657672   | 5.05329              | 5.053            |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.500 | 22.500 | (0.958) | 425317   | 4.81261              | 4.813            |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.476 | 23.483 | (1.000) | 582020   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149       | 23.491 | 23.491 | (1.001) | 729065   | 4.75756              | 4.758            |
| 74 Benzo(b)fluoranthene           | 252       | 24.111 | 24.118 | (0.975) | 567234   | 6.03132              | 6.031            |
| 75 Benzo(k)fluoranthene           | 252       | 24.149 | 24.149 | (0.977) | 669242   | 6.59598              | 6.596            |
| 76 Benzo(a)pyrene                 | 252       | 24.629 | 24.637 | (0.996) | 439622   | 5.44848              | 5.448            |
| * 77 Perylene-d12                 | 264       | 24.722 | 24.730 | (1.000) | 284657   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.800 | 26.808 | (1.084) | 229368   | 2.25825              | 2.258            |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.816 | 26.824 | (1.085) | 210477   | 2.43986              | 2.440            |
| 80 Benzo(g,h,i)perylene           | 276       | 27.406 | 27.414 | (1.109) | 153848   | 1.73670              | 1.737            |
| 90 N-Nitrosodimethylamine         | 74        | 3.989  | 3.996  | (0.486) | 269678   | 11.5045              | 11.50            |
| 91 Aniline                        | 93        | 7.689  | 7.689  | (0.937) | 616514   | 11.0528              | 11.05            |
| 93 Benzidine                      | 184       | 20.000 | 20.007 | (0.894) | 473676   | 7.40406              | 7.404            |
| 103 Pyridine                      | 79        | 3.989  | 3.996  | (0.486) | 403507   | 5.60395              | 5.604            |
| 105 1-methylnaphthalene           | 142       | 12.305 | 12.305 | (1.155) | 420634   | 5.04035              | 5.040            |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.677 | 15.685 | (1.100) | 524824   | 5.72332              | 5.723            |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 24.149 | 24.149 | (0.977) | 1156855  | 12.5746              | 12.57            |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 14.990 | 14.997 | (1.052) | 153859   | 4.91154              | 4.912            |

QC Flag Legend

M - Compound response manually integrated.



ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 02-MAR-2023  
 Lab File ID: NT1423022856.D Calibration Time: 05:52  
 Lab Smp Id: SLB0374-CCV7  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
|                       |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze   | 116519   | 58260      | 233038  | 125192 | 7.44  |
| 27 Naphthalene-d8     | 429090   | 214545     | 858180  | 458907 | 6.95  |
| 42 Acenaphthene-d10   | 250637   | 125319     | 501274  | 271560 | 8.35  |
| 59 Phenanthrene-d10   | 458117   | 229059     | 916234  | 498585 | 8.83  |
| 69 Chrysene-d12       | 393468   | 196734     | 786936  | 404214 | 2.73  |
| 134 Di-n-octylphthala | 572636   | 286318     | 1145272 | 582020 | 1.64  |
| 77 Perylene-d12       | 283320   | 141660     | 566640  | 284657 | 0.47  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.21   | 0.00  |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.66  | -0.07 |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.25  | 0.00  |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.25  | 0.00  |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.38  | 0.00  |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.48  | -0.03 |
| 77 Perylene-d12       | 24.73    | 24.23    | 25.23 | 24.72  | -0.03 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022856.D

Lab ID: SLB0374-CCV7  
nt14.i, ABN.m, 02-MAR-2023 10:41

RT CO-ELUTION COMPOUNDS

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13.931 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

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NONE

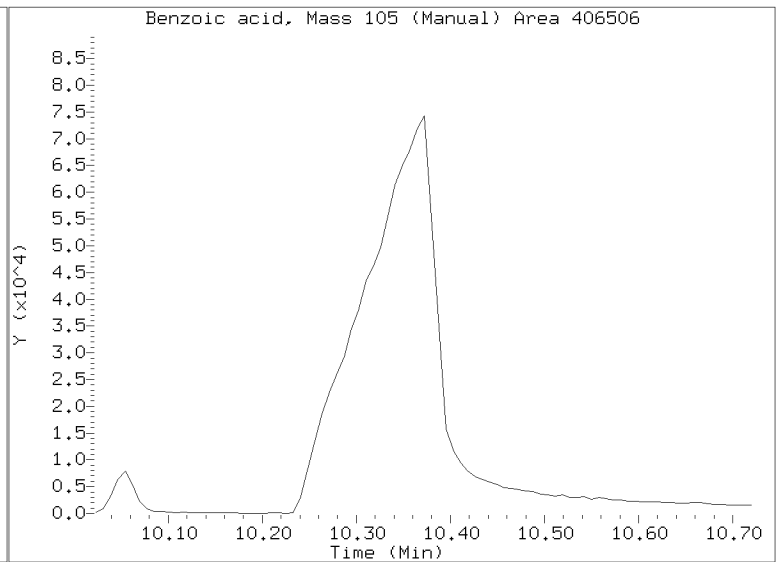
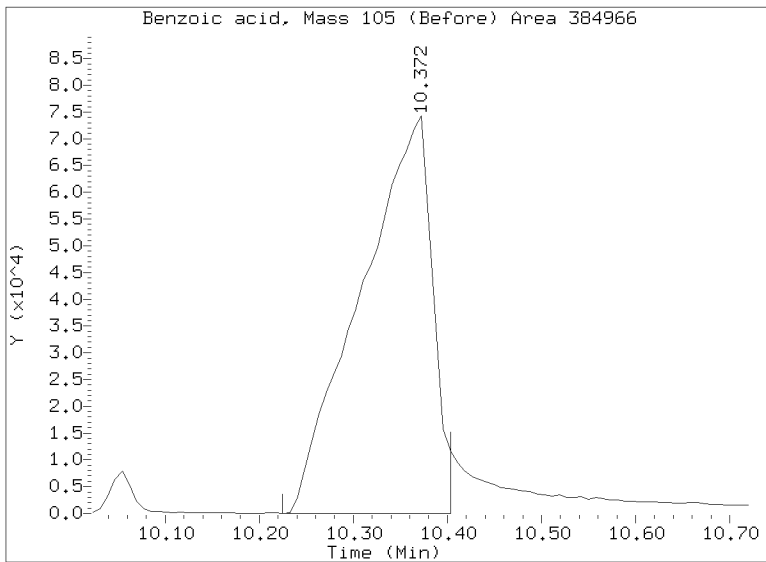
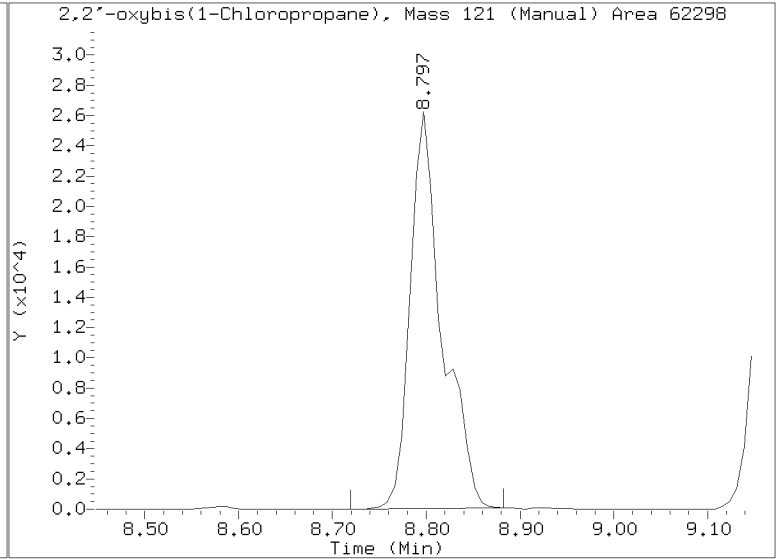
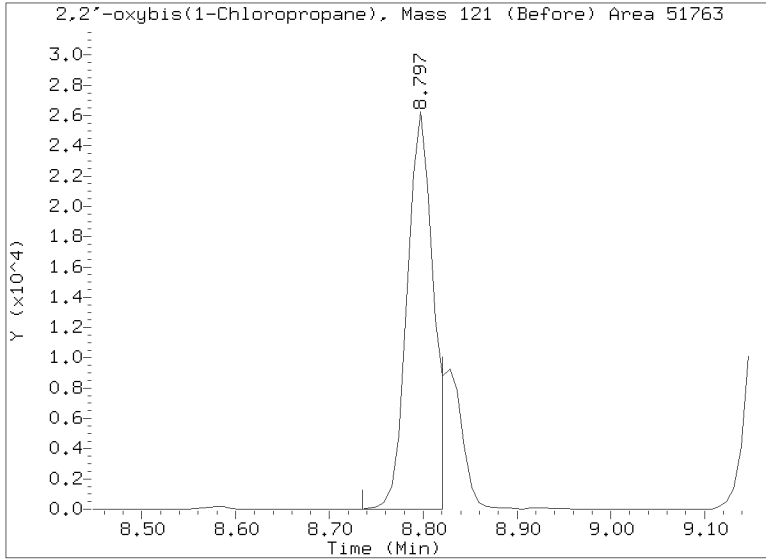
RRT check based on Ccal File: NT1423022848.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022856.D  
Injection Date: 02-MAR-2023 10:41  
Lab ID:SLB0374-CCV7 Client ID:  
Report Date: 03/14/2023 08:44





LOW-CONCENTRATION  
CONTINUING CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022823.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-LCV1

Injection Time: 14:51

Sequence Name: ABN 0.2

| COMPOUND                     | TYPE | CONC. (ug/mL) |     | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|------------------------------|------|---------------|-----|-----------------------|-----------|-----|--------------|---------|
|                              |      | STD           | CCV | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| Phenol                       | A    | 0.20000       | 0.2 | 1.8373500             | 1.9885460 |     | 8.2          | +/-50   |
| bis(2-chloroethyl) ether     | A    | 0.20000       | 0.2 | 1.5312550             | 1.2943160 |     | -0.3         | +/-50   |
| 2-Chlorophenol               | A    | 0.20000       | 0.2 | 1.3533690             | 1.1998220 |     | -11.3        | +/-50   |
| 1,3-Dichlorobenzene          | A    | 0.20000       | 0.2 | 1.4914740             | 1.5736120 |     | 5.5          | +/-50   |
| 1,4-Dichlorobenzene          | A    | 0.20000       | 0.2 | 1.4740600             | 1.4956810 |     | 1.5          | +/-50   |
| 1,2-Dichlorobenzene          | A    | 0.20000       | 0.2 | 1.4134490             | 1.5450190 |     | 9.3          | +/-50   |
| Benzyl Alcohol               | A    | 0.20000       | 0.1 | 0.6439892             | 0.3994177 |     | -50.1        | +/-50 * |
| 2,2'-Oxybis(1-chloropropane) | A    | 0.20000       | 0.2 | 0.3811859             | 0.4074374 |     | 6.9          | +/-50   |
| 2-Methylphenol               | A    | 0.20000       | 0.2 | 1.1607310             | 1.0120560 |     | -12.8        | +/-50   |
| Hexachloroethane             | A    | 0.20000       | 0.1 | 0.5535732             | 0.4133651 |     | -25.3        | +/-50   |
| N-Nitroso-di-n-Propylamine   | A    | 0.20000       | 0.2 | 0.8837751             | 0.8903650 |     | 0.7          | +/-50   |
| 4-Methylphenol               | A    | 0.20000       | 0.1 | 1.1353050             | 0.8914110 |     | -34.1        | +/-50   |
| Nitrobenzene                 | A    | 0.20000       | 0.2 | 0.3760061             | 0.3460825 |     | -8.0         | +/-50   |
| Isophorone                   | A    | 0.20000       | 0.2 | 0.4996273             | 0.5320725 |     | -9.5         | +/-50   |
| 2-Nitrophenol                | A    | 0.20000       | 0.1 | 0.1467597             | 0.1342934 |     | -31.0        | +/-50   |
| 2,4-Dimethylphenol           | A    | 0.40000       | 0.4 | 0.3427845             | 0.3540774 |     | 3.3          | +/-50   |
| Bis(2-Chloroethoxy)methane   | A    | 0.20000       | 0.2 | 0.3780235             | 0.3699689 |     | -2.1         | +/-50   |
| 2,4-Dichlorophenol           | A    | 0.40000       | 0.3 | 0.2946235             | 0.2518123 |     | -27.6        | +/-50   |
| 1,2,4-Trichlorobenzene       | A    | 0.20000       | 0.2 | 0.3874001             | 0.3942477 |     | 1.8          | +/-50   |
| Naphthalene                  | A    | 0.20000       | 0.2 | 1.0669580             | 1.1393850 |     | 6.8          | +/-50   |
| Benzoic acid                 | A    | 0.80000       | 0.0 | 0.1358415             |           |     |              | +/-50 * |
| 4-Chloroaniline              | A    | 0.40000       | 0.3 | 0.4563565             | 0.3585652 |     | -21.4        | +/-50   |
| Hexachlorobutadiene          | A    | 0.20000       | 0.2 | 0.2363916             | 0.2214516 |     | -6.3         | +/-50   |
| 4-Chloro-3-Methylphenol      | A    | 0.40000       | 0.3 | 0.3085482             | 0.2347927 |     | -23.9        | +/-50   |
| 2-Methylnaphthalene          | A    | 0.20000       | 0.2 | 0.7901196             | 0.7668161 |     | -3.0         | +/-50   |
| Hexachlorocyclopentadiene    | A    | 0.40000       | 0.0 | 0.3443795             |           |     |              | +/-50 * |
| 2,4,6-Trichlorophenol        | A    | 0.40000       | 0.3 | 0.3907367             | 0.3054073 |     | -21.8        | +/-50   |
| 2,4,5-Trichlorophenol        | A    | 0.40000       | 0.3 | 0.4224702             | 0.2919677 |     | -30.9        | +/-50   |
| 2-Chloronaphthalene          | A    | 0.20000       | 0.2 | 1.2480280             | 1.2960640 |     | 3.9          | +/-50   |
| 2-Nitroaniline               | A    | 0.40000       | 0.3 | 0.3254949             | 0.2708174 |     | -16.8        | +/-50   |
| Acenaphthylene               | A    | 0.20000       | 0.2 | 1.8312950             | 2.0241310 |     | 10.5         | +/-50   |
| Dimethylphthalate            | A    | 0.20000       | 0.2 | 1.2581570             | 1.3381060 |     | 6.4          | +/-50   |
| 2,6-Dinitrotoluene           | A    | 0.40000       | 0.4 | 0.2948315             | 0.2743497 |     | -6.9         | +/-50   |
| Acenaphthene                 | A    | 0.20000       | 0.2 | 1.1724930             | 1.2317090 |     | 5.1          | +/-50   |

\* Values outside of QC limits



LOW-CONCENTRATION  
CONTINUING CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022823.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-LCV1

Injection Time: 14:51

Sequence Name: ABN 0.2

| COMPOUND                   | TYPE | CONC. (ug/mL) |       | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|----------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|---------|
|                            |      | STD           | CCV   | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| 3-Nitroaniline             | A    | 0.40000       | 0.2   | 0.3021810             | 0.1668756 |     | -44.8        | +/-50   |
| 2,4-Dinitrophenol          | A    | 0.80000       | 0.0   | 0.1437811             |           |     |              | +/-50 * |
| Dibenzofuran               | A    | 0.20000       | 0.2   | 1.8656210             | 1.8507940 |     | -0.8         | +/-50   |
| 4-Nitrophenol              | A    | 0.40000       | 0.0   | 0.1323756             |           |     |              | +/-50 * |
| 2,4-Dinitrotoluene         | A    | 0.40000       | 0.3   | 0.4244424             | 0.2966198 |     | -30.1        | +/-50   |
| Fluorene                   | A    | 0.20000       | 0.2   | 1.5719010             | 1.6504060 |     | 5.0          | +/-50   |
| 4-Chlorophenylphenyl ether | A    | 0.20000       | 0.2   | 0.8363665             | 0.8411839 |     | 0.6          | +/-50   |
| Diethyl phthalate          | A    | 0.20000       | 0.2   | 1.1765440             | 1.2641020 |     | 7.4          | +/-50   |
| 4-Nitroaniline             | A    | 0.40000       | 0.3   | 0.2995450             | 0.2032315 |     | -32.2        | +/-50   |
| 4,6-Dinitro-2-methylphenol | A    | 0.80000       | 0.1   | 0.0975169             | 0.0228618 |     | -82.8        | +/-50 * |
| N-Nitrosodiphenylamine     | A    | 0.20000       | 0.2   | 0.5026629             | 0.5335801 |     | 6.2          | +/-50   |
| 4-Bromophenyl phenyl ether | A    | 0.20000       | 0.2   | 0.2209900             | 0.2231385 |     | 1.0          | +/-50   |
| Hexachlorobenzene          | A    | 0.20000       | 0.2   | 0.2429692             | 0.2597911 |     | 6.9          | +/-50   |
| Pentachlorophenol          | A    | 0.40000       | 0.07  | 0.0938263             | 0.0205595 |     | -82.0        | +/-50 * |
| Phenanthrene               | A    | 0.20000       | 0.2   | 1.0640870             | 1.0964450 |     | 3.0          | +/-50   |
| Anthracene                 | A    | 0.20000       | 0.2   | 1.0059580             | 1.0291720 |     | 2.3          | +/-50   |
| Carbazole                  | A    | 0.20000       | 0.2   | 0.8816605             | 0.8177756 |     | -7.2         | +/-50   |
| Di-n-Butylphthalate        | A    | 0.20000       | 0.2   | 0.9469101             | 1.0196870 |     | -10.5        | +/-50   |
| Fluoranthene               | A    | 0.20000       | 0.2   | 1.5175930             | 1.4966620 |     | -1.4         | +/-50   |
| Pyrene                     | A    | 0.20000       | 0.2   | 1.6000330             | 1.5552410 |     | -2.8         | +/-50   |
| Butylbenzylphthalate       | A    | 0.20000       | 0.2   | 0.4562763             | 0.5786320 |     | 2.2          | +/-50   |
| Benzo(a)anthracene         | A    | 0.20000       | 0.2   | 1.3399020             | 1.4839000 |     | 10.7         | +/-50   |
| 3,3'-Dichlorobenzidine     | A    | 0.60000       | 0.7   | 0.3826468             | 0.4674708 |     | 22.2         | +/-50   |
| Chrysene                   | A    | 0.20000       | 0.2   | 1.2879040             | 1.3867250 |     | 7.7          | +/-50   |
| bis(2-Ethylhexyl)phthalate | A    | 0.20000       | 0.2   | 0.5161185             | 0.5503757 |     | -9.9         | +/-50   |
| Di-n-Octylphthalate        | A    | 0.20000       | 0.2   | 1.0531830             | 1.0655420 |     | 1.2          | +/-50   |
| Benzofluoranthenes, Total  | A    | 0.40000       | 0.4   | 1.2927770             | 1.3549630 |     | 4.8          | +/-50   |
| Benzo(a)pyrene             | A    | 0.20000       | 0.2   | 1.1338150             | 1.2509790 |     | 10.3         | +/-50   |
| Indeno(1,2,3-cd)pyrene     | A    | 0.20000       | 0.1   | 1.4272450             | 0.9343166 |     | -34.5        | +/-50   |
| Dibenzo(a,h)anthracene     | A    | 0.20000       | 0.1   | 1.2122070             | 0.8663379 |     | -28.5        | +/-50   |
| Benzo(g,h,i)perylene       | A    | 0.20000       | 0.1   | 1.2448130             | 0.6194175 |     | -50.2        | +/-50 * |
| 1-Methylnaphthalene        | A    | 0.20000       | 0.2   | 0.7274101             | 0.7097243 |     | -2.4         | +/-50   |
| 2-Fluorophenol             | A    | 0.30000       | 0.218 | 1.0846110             | 0.7868639 |     | -27.5        | +/-50   |
| Phenol-d5                  | A    | 0.30000       | 0.252 | 1.5399100             | 1.2922230 |     | -16.1        | +/-50   |

\* Values outside of QC limits



**LOW-CONCENTRATION  
CONTINUING CALIBRATION CHECK  
EPA 8270E**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT14</u>                      | Calibration:      | <u>GC00033</u>         |
| Lab File ID:   | <u>NT1423022823.D</u>            | Calibration Date: | <u>02/28/2023</u>      |
| Sequence:      | <u>SLB0374</u>                   | Injection Date:   | <u>03/01/23</u>        |
| Lab Sample ID: | <u>SLB0374-LCV1</u>              | Injection Time:   | <u>14:51</u>           |
| Sequence Name: | <u>ABN 0.2</u>                   |                   |                        |

| COMPOUND               | TYPE | CONC. (ug/mL) |       | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|-------|
|                        |      | STD           | CCV   | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| 2-Chlorophenol-d4      | A    | 0.30000       | 0.272 | 1.3093910             | 1.1852940 |     | -9.5         | +/-50 |
| 1,2-Dichlorobenzene-d4 | A    | 0.20000       | 0.196 | 0.9857584             | 0.9642860 |     | -2.2         | +/-50 |
| Nitrobenzene-d5        | A    | 0.20000       | 0.197 | 0.3912861             | 0.3862528 |     | -1.3         | +/-50 |
| 2-Fluorobiphenyl       | A    | 0.20000       | 0.207 | 1.5568580             | 1.6097420 |     | 3.4          | +/-50 |
| 2,4,6-Tribromophenol   | A    | 0.30000       | 0.207 | 0.1850894             | 0.1485253 |     | -30.9        | +/-50 |
| p-Terphenyl-d14        | A    | 0.20000       | 0.199 | 1.2319340             | 1.2234380 |     | -0.7         | +/-50 |

\* Values outside of QC limits

\* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022823.D

Date: 01-MAR-2023 14:51

Client ID:

Sample Info: SLB0374-LCW1

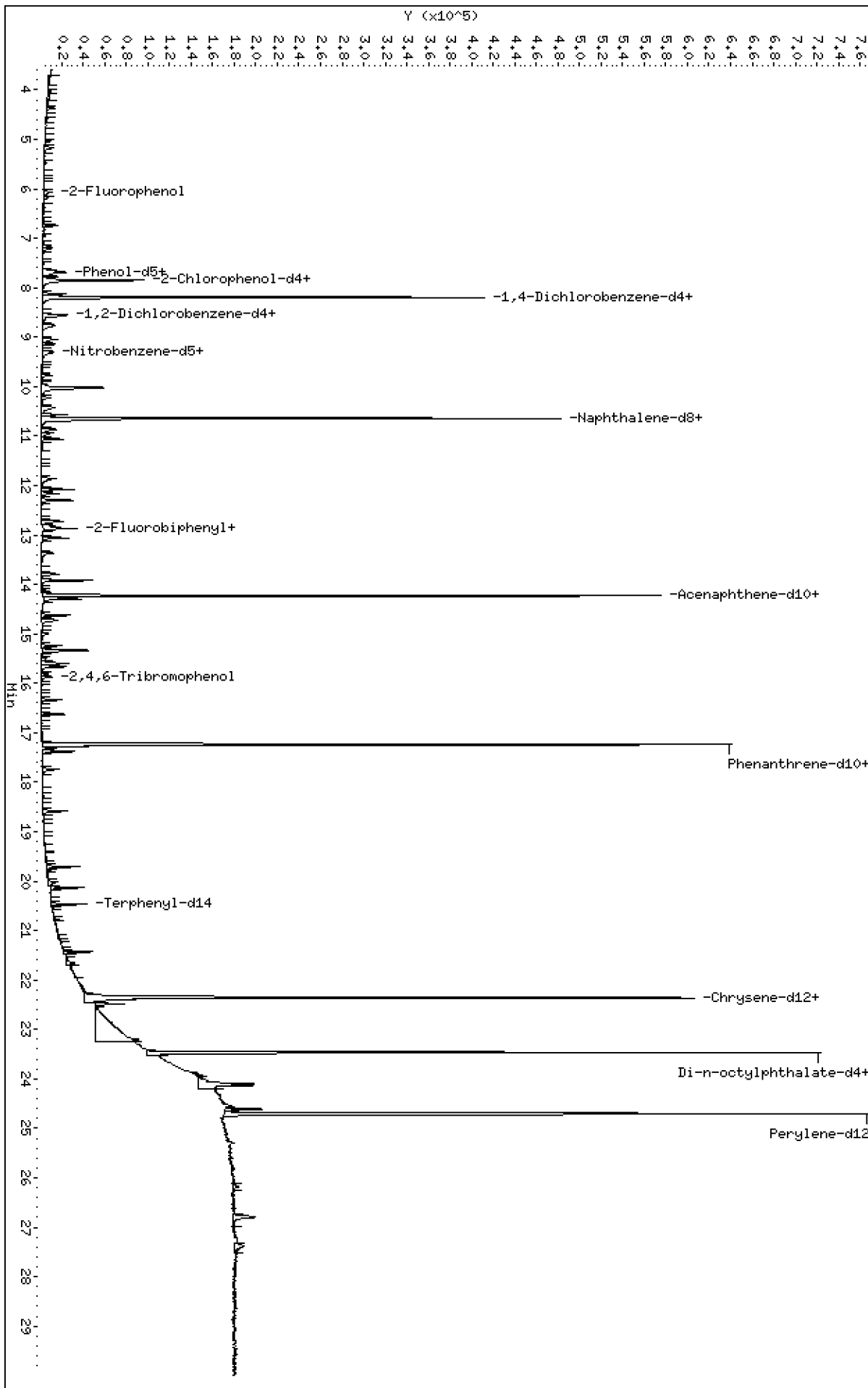
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022823.D



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

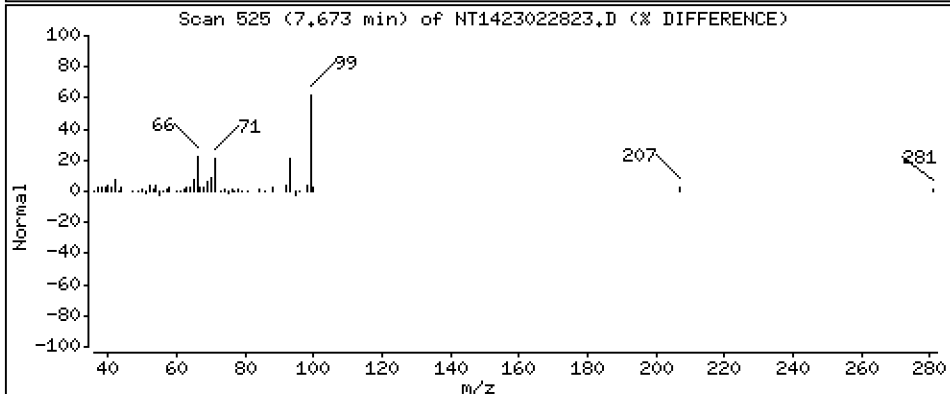
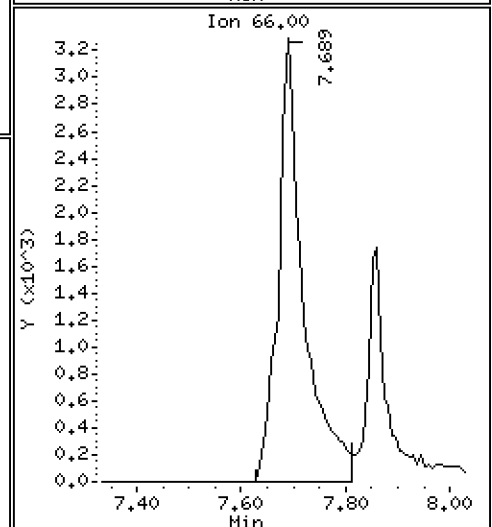
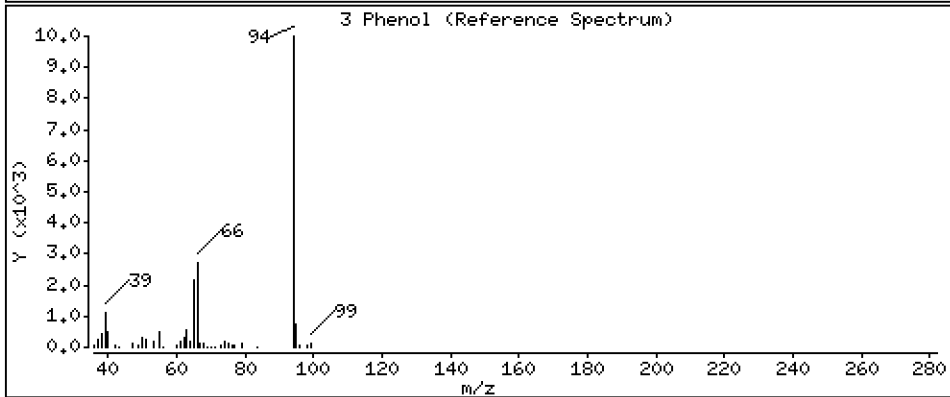
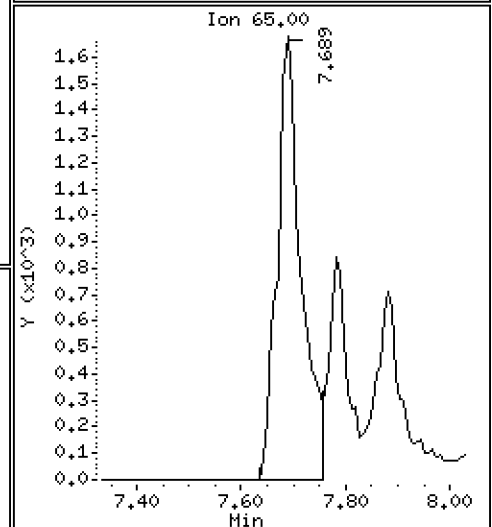
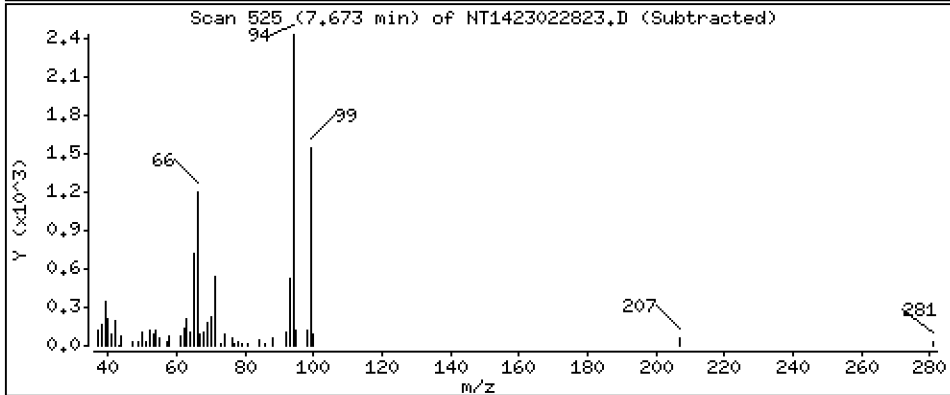
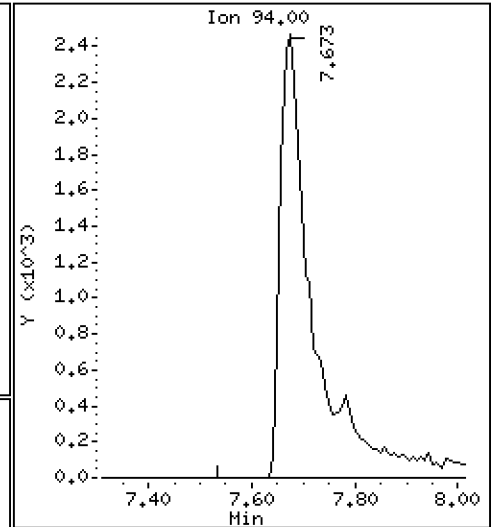
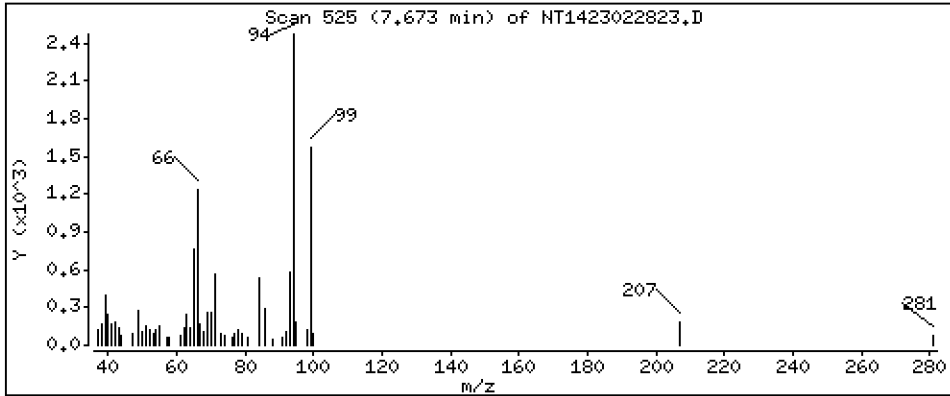
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,2165 ug/mL





Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

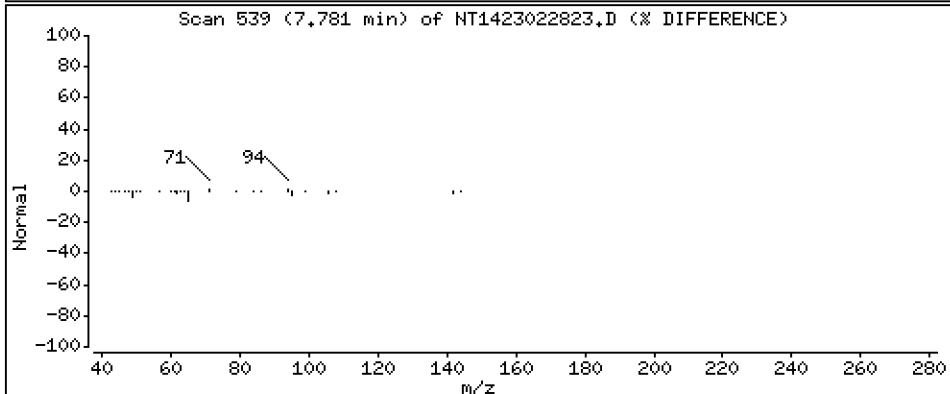
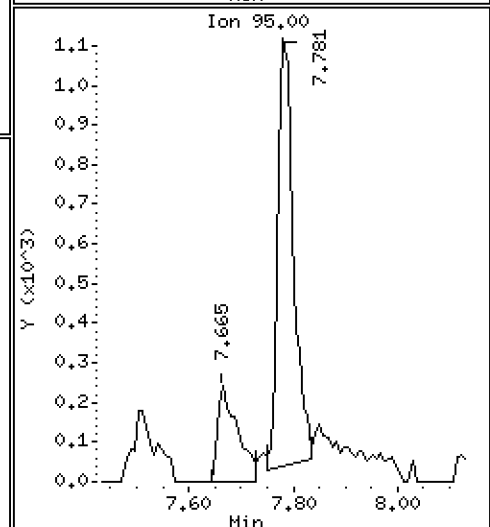
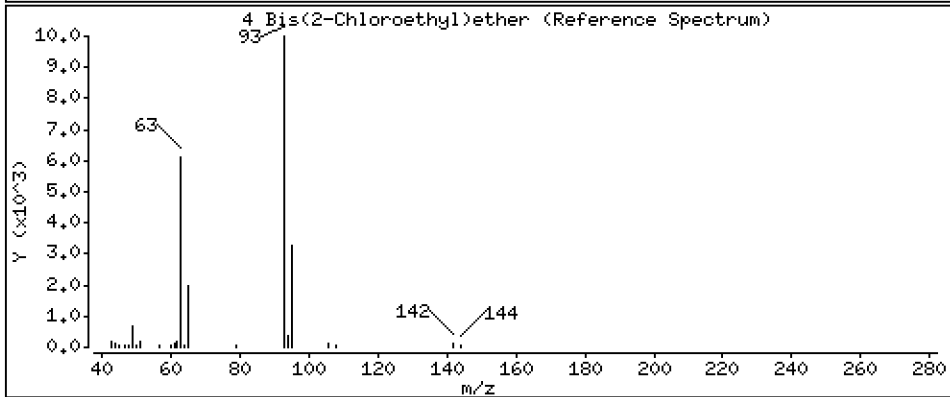
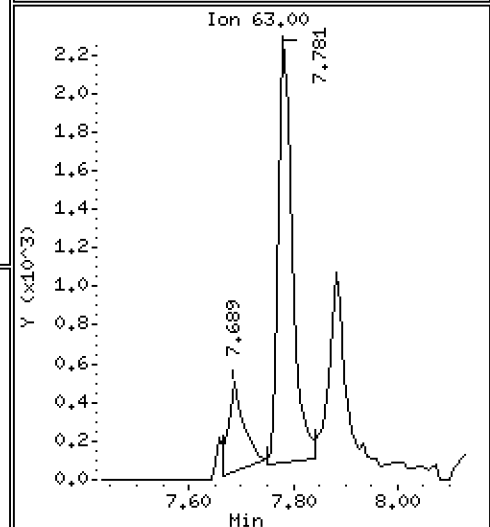
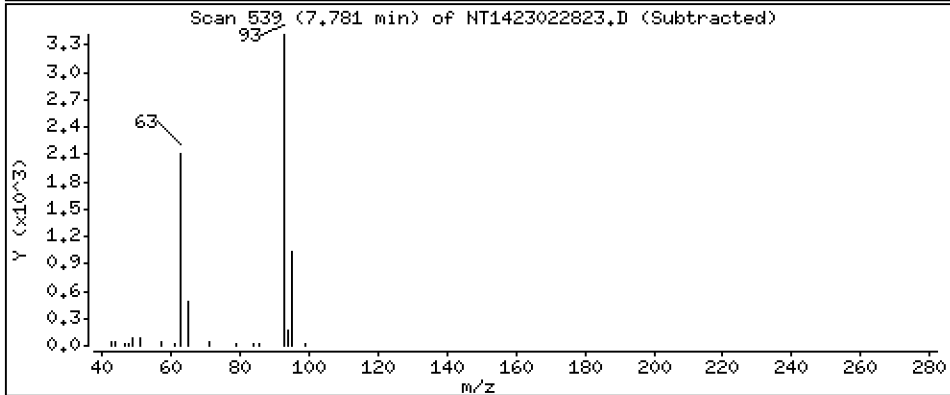
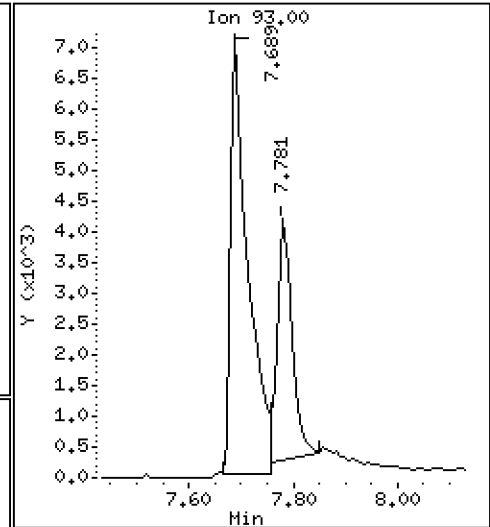
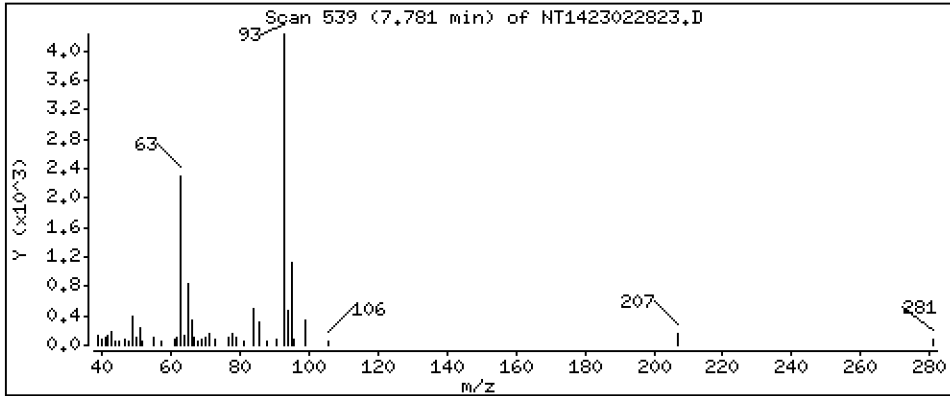
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 0.1995 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

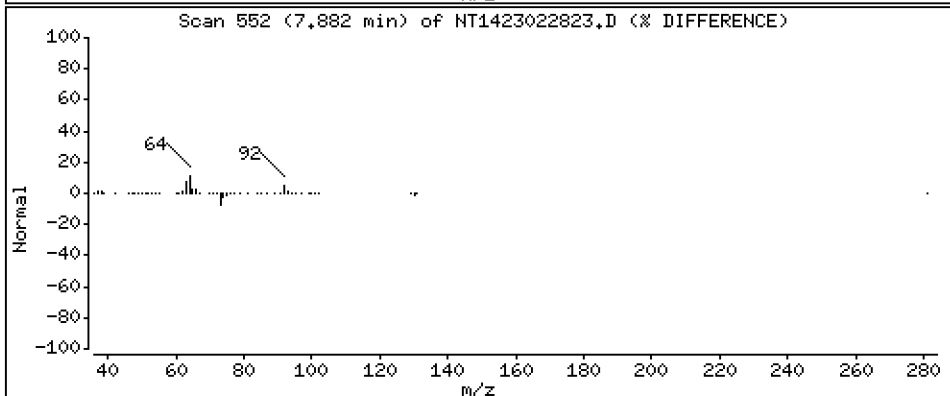
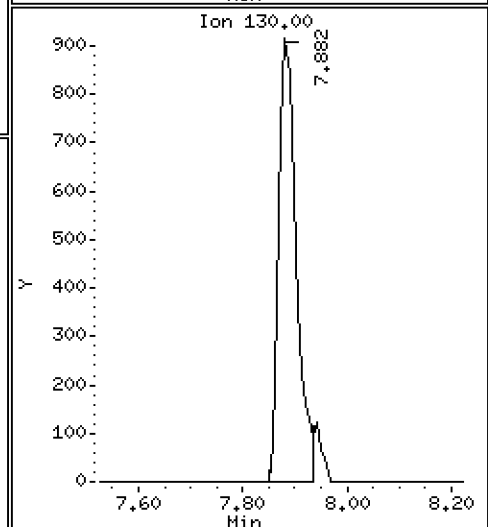
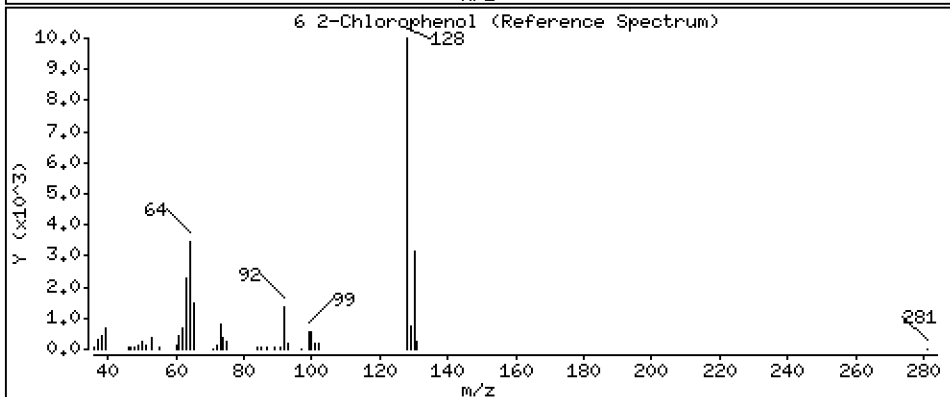
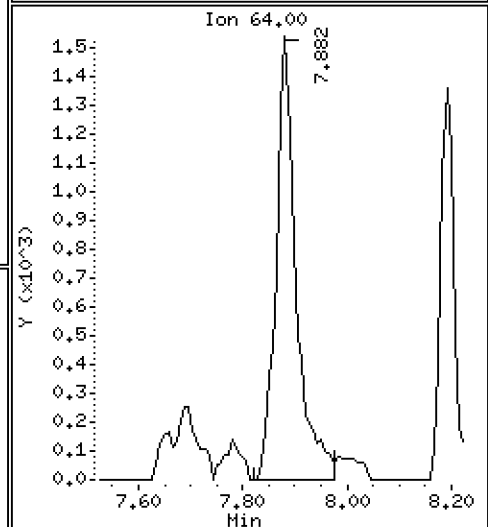
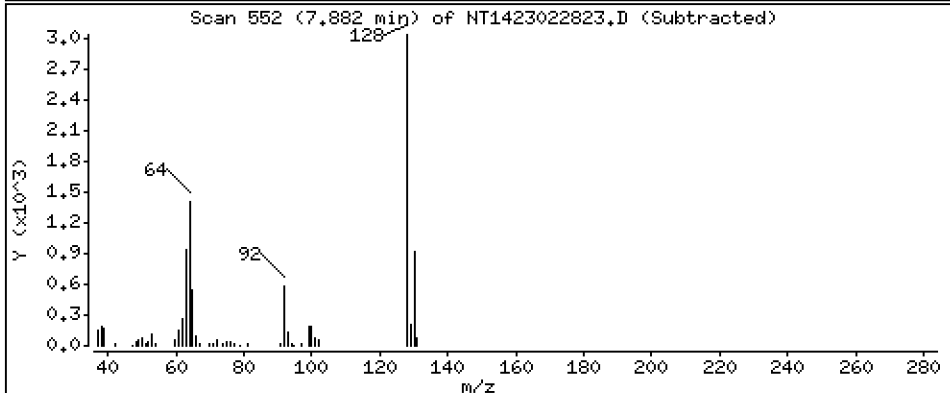
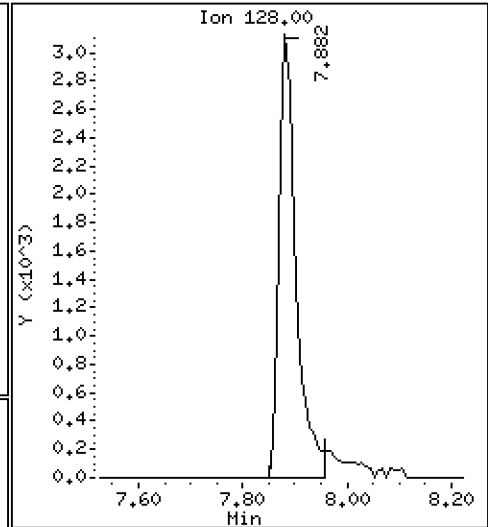
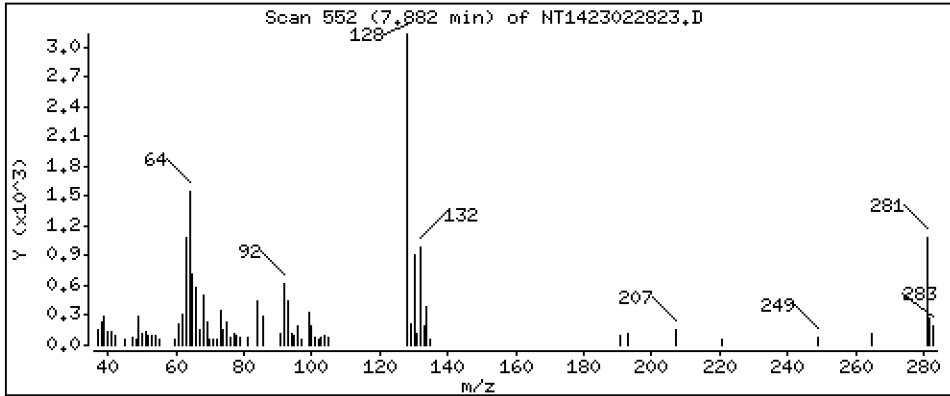
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

6 2-Chlorophenol

Concentration: 0.1773 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

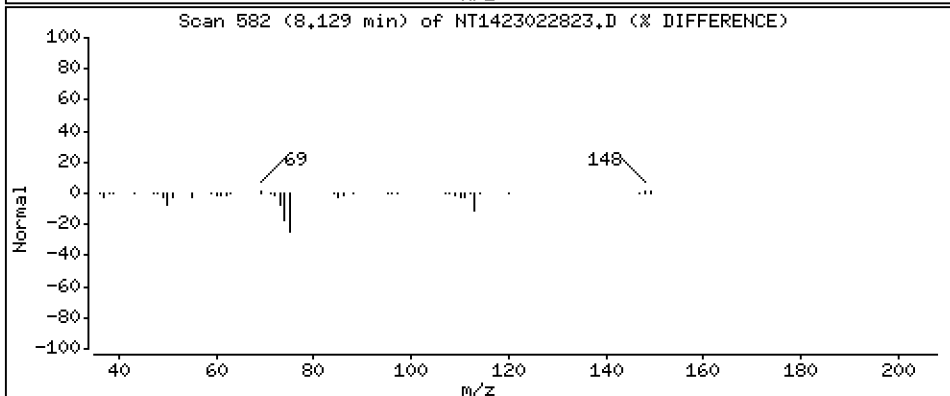
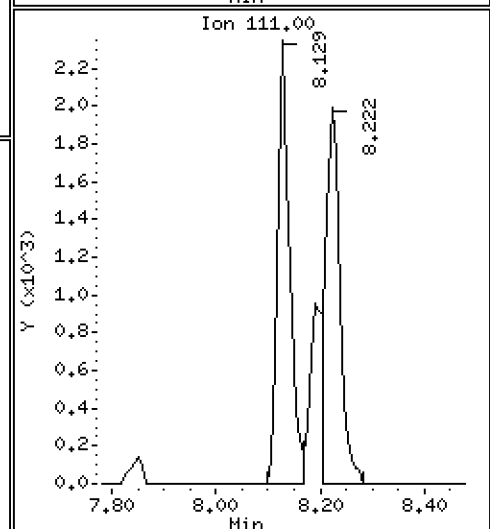
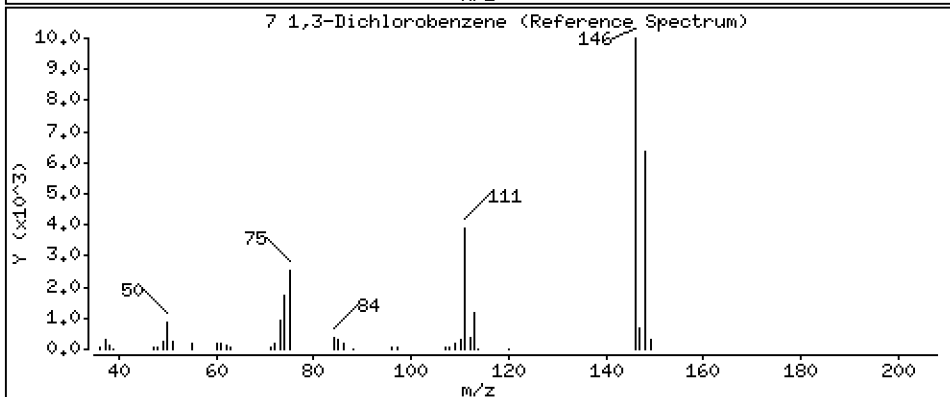
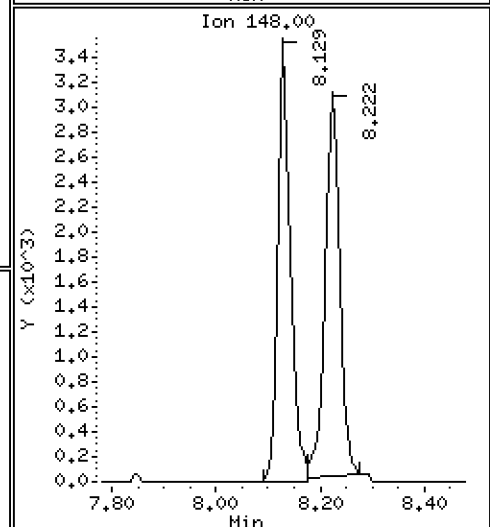
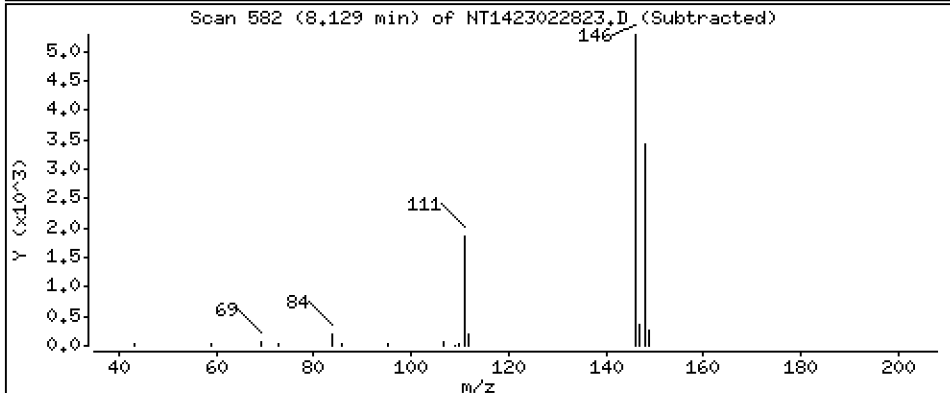
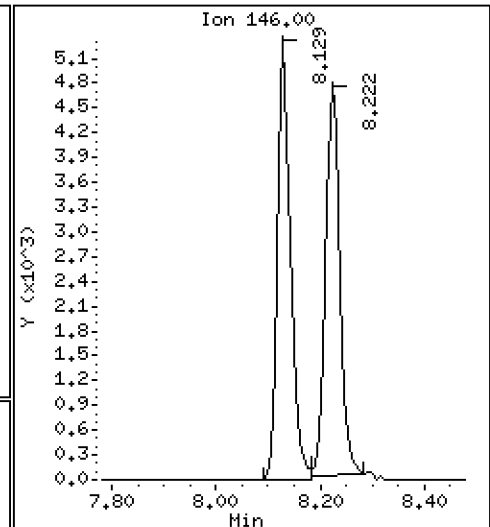
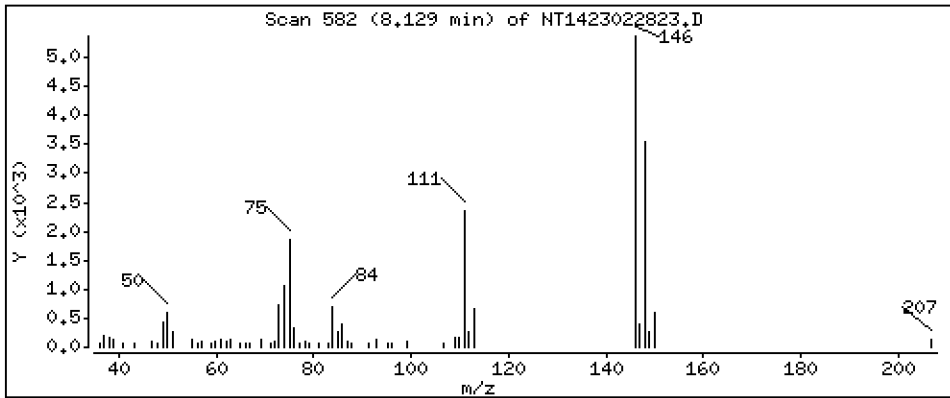
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,2110 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

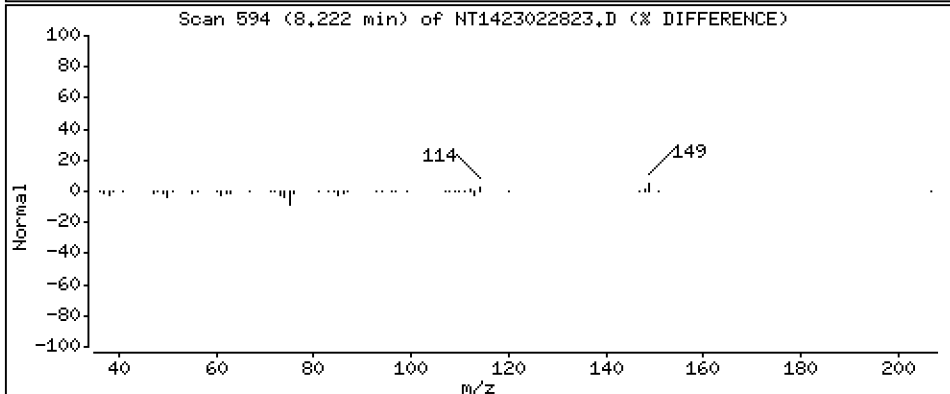
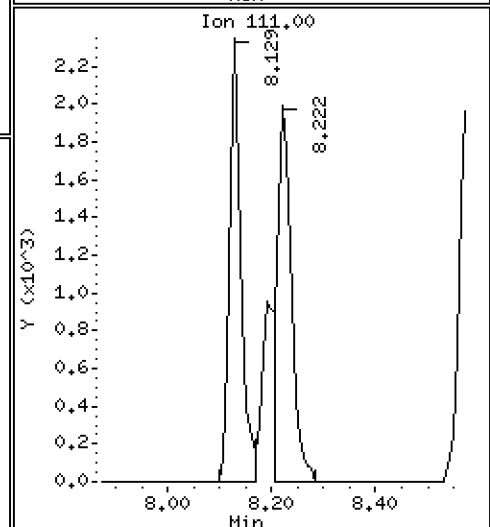
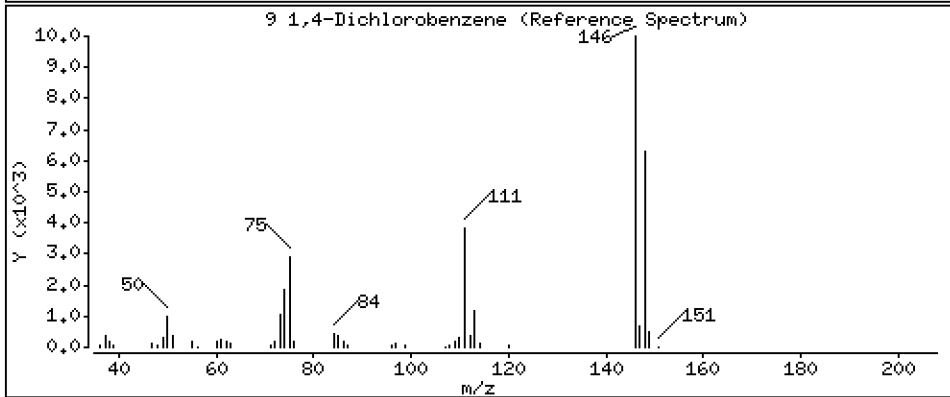
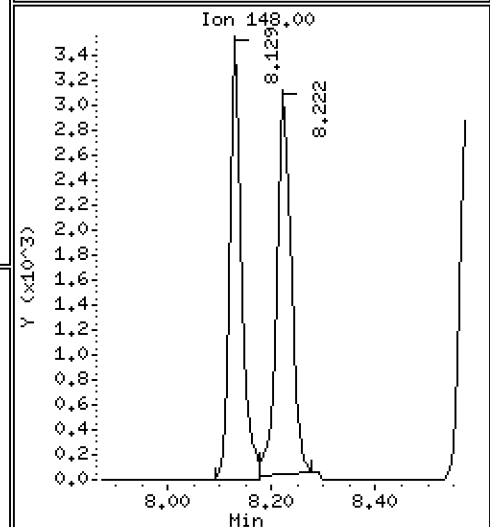
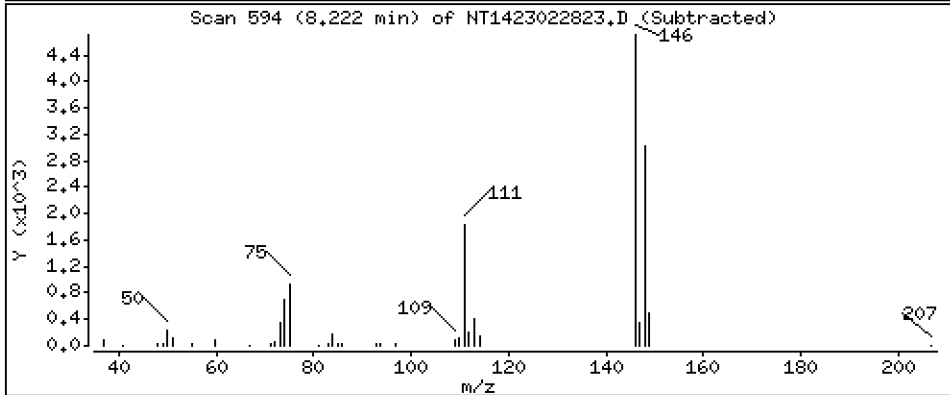
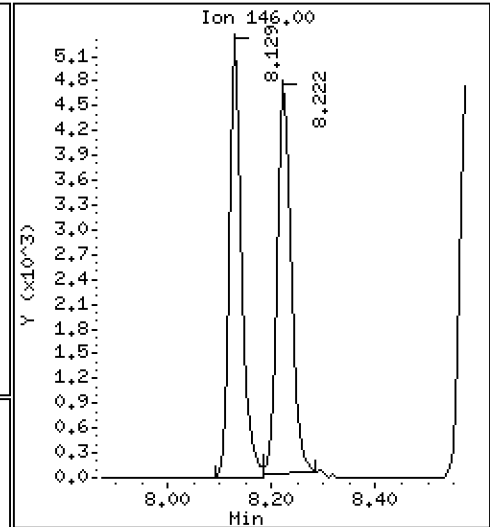
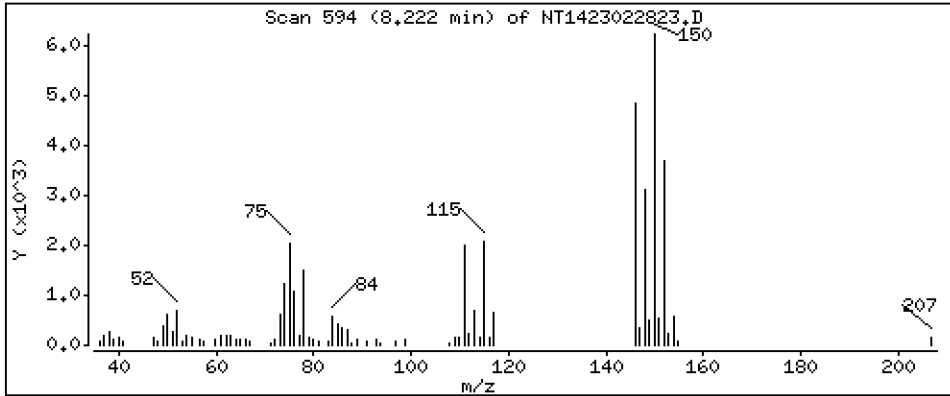
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,2029 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

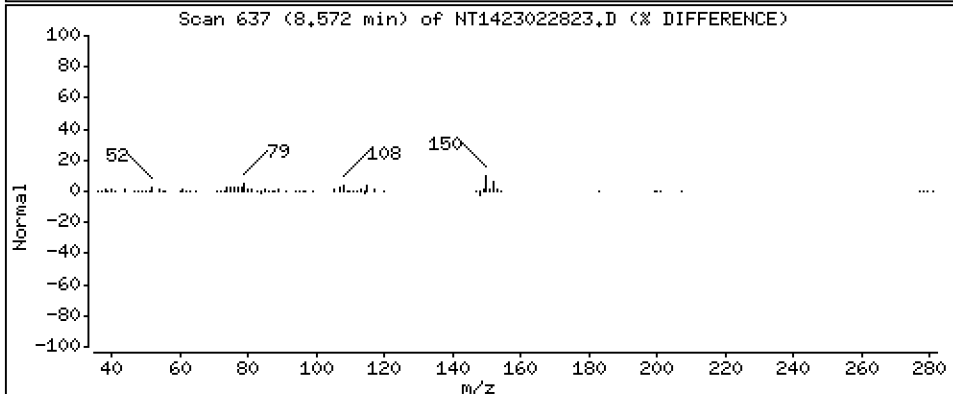
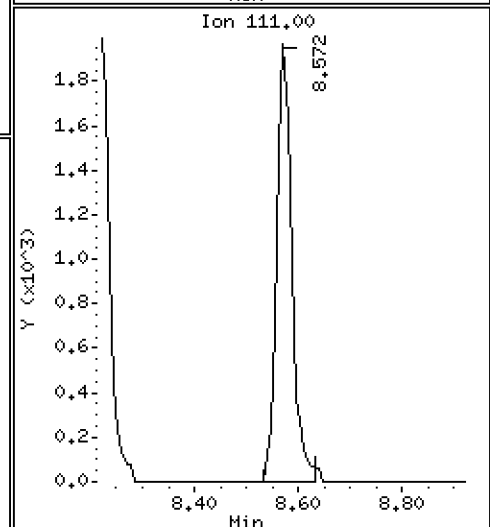
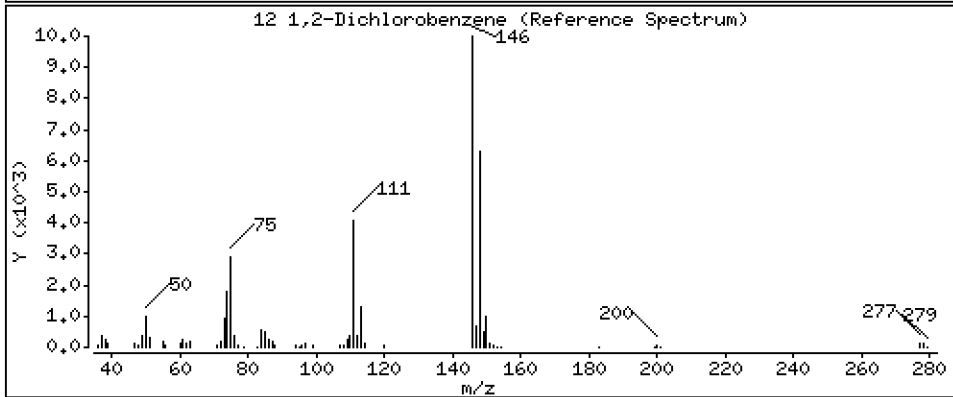
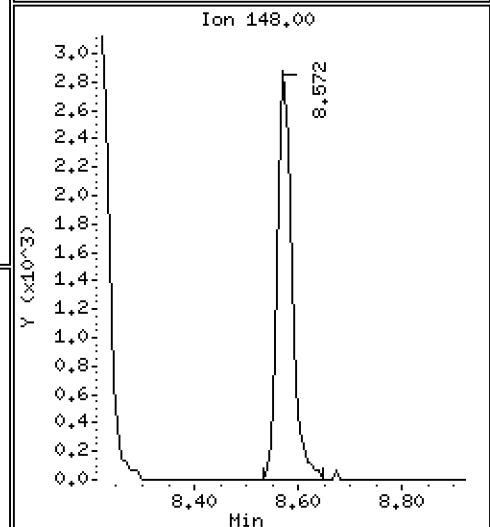
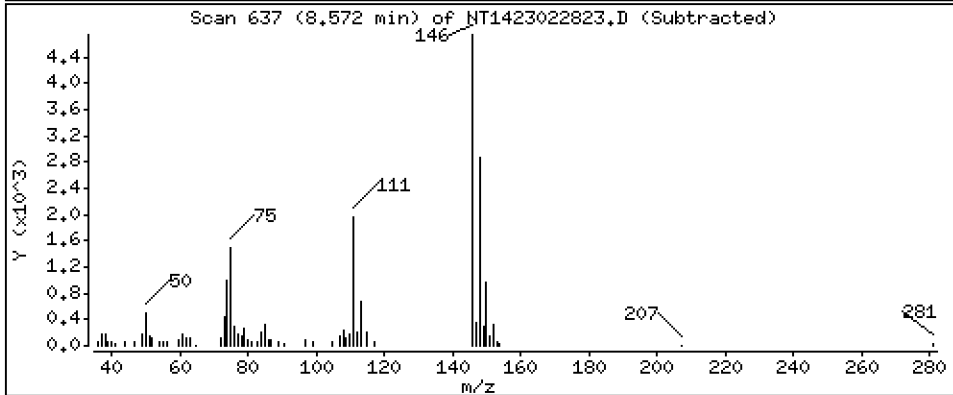
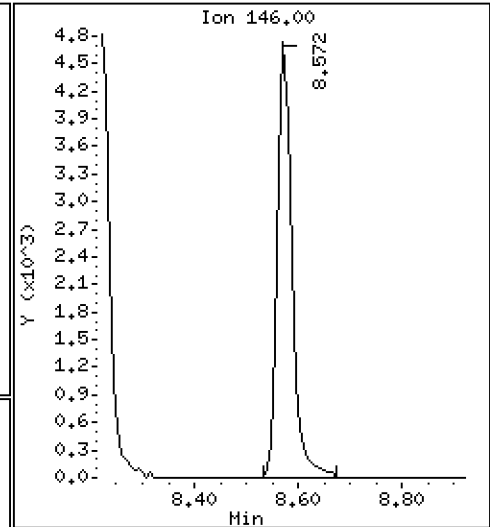
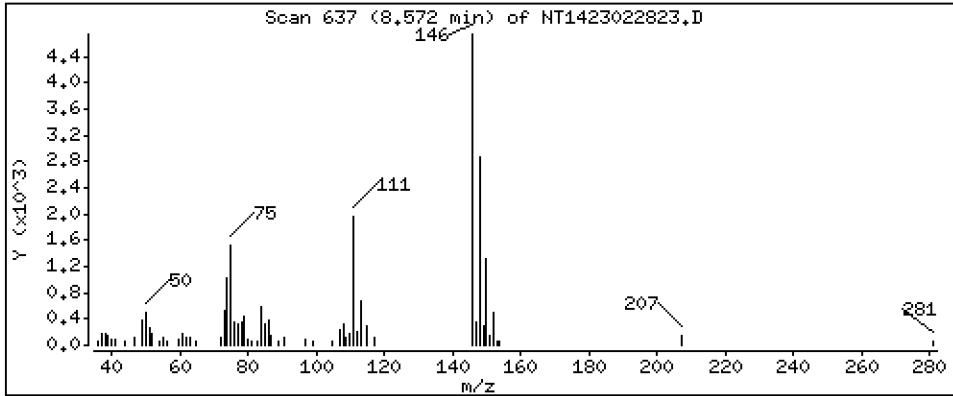
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2186 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

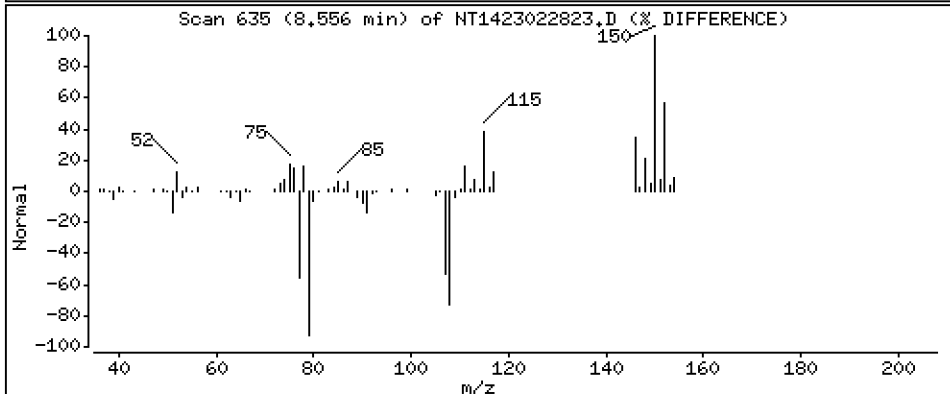
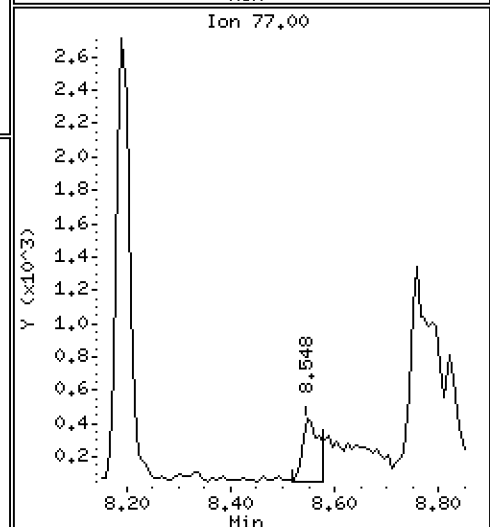
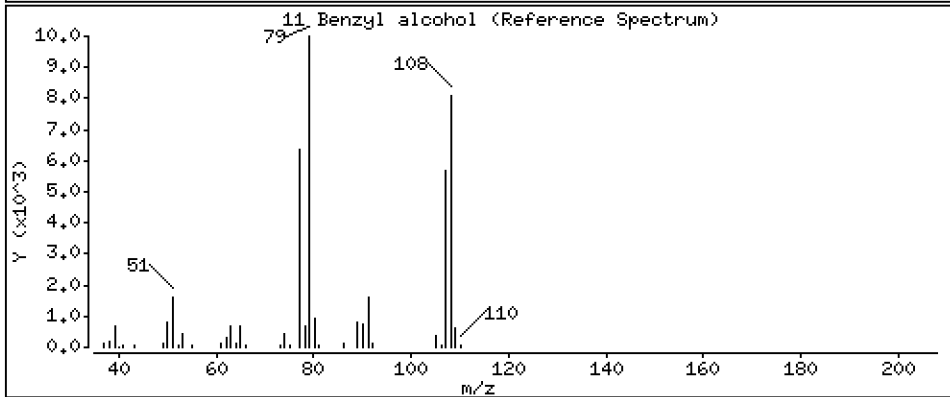
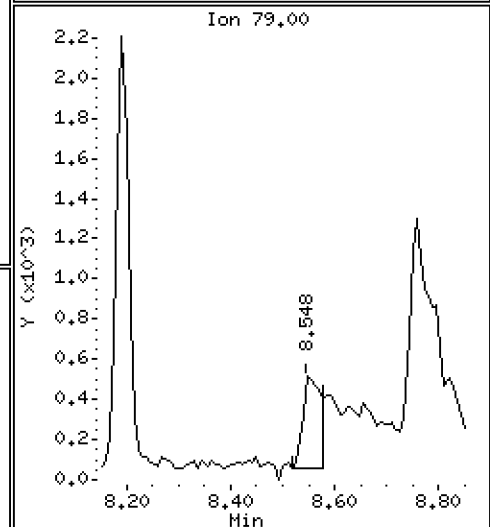
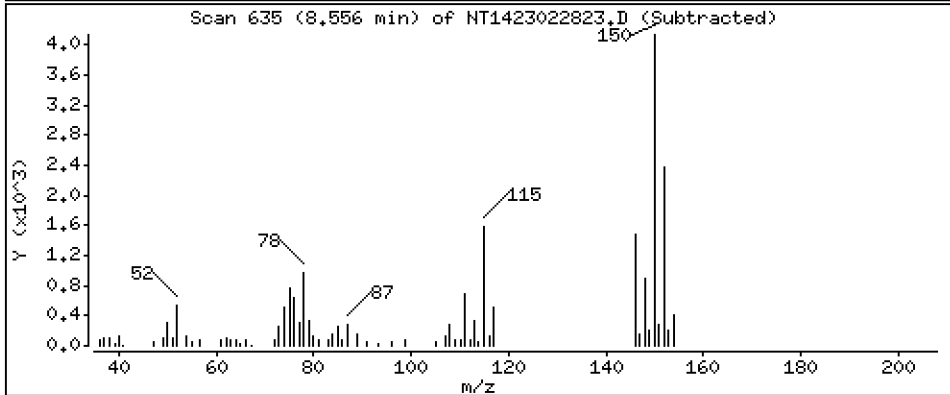
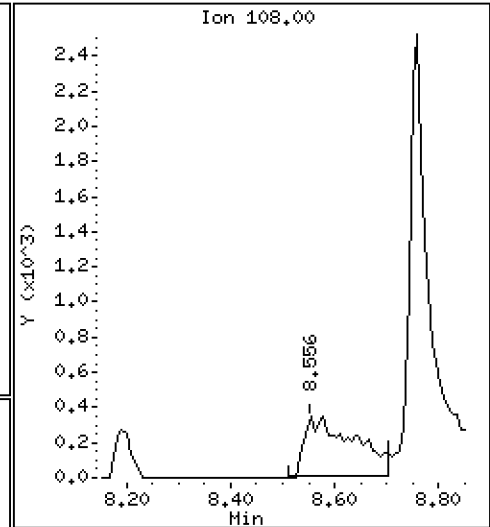
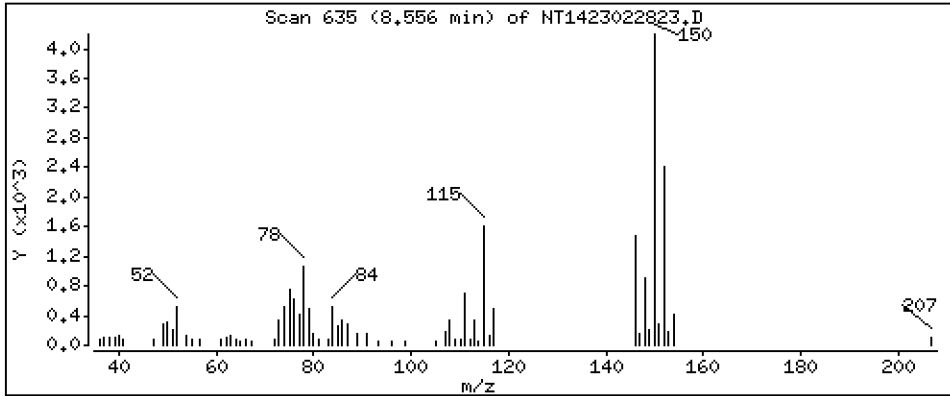
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.09976 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

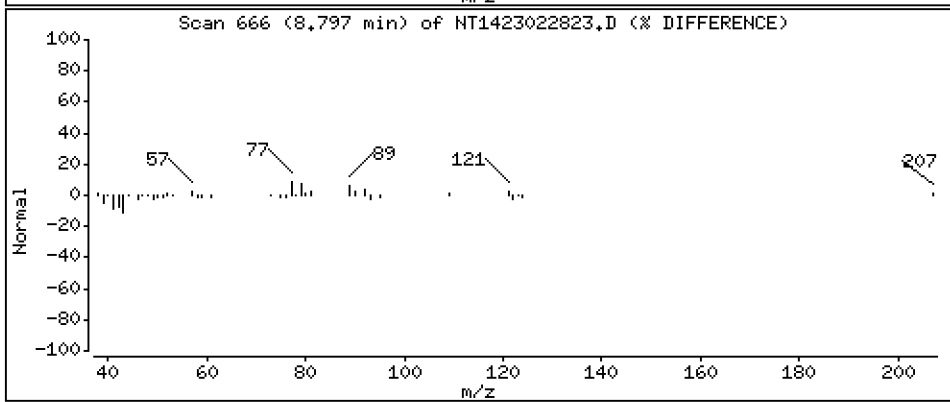
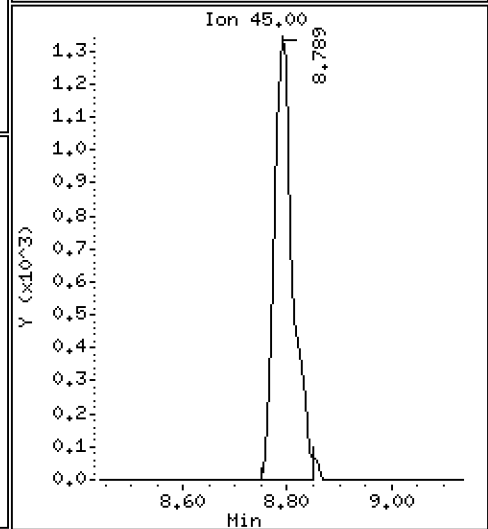
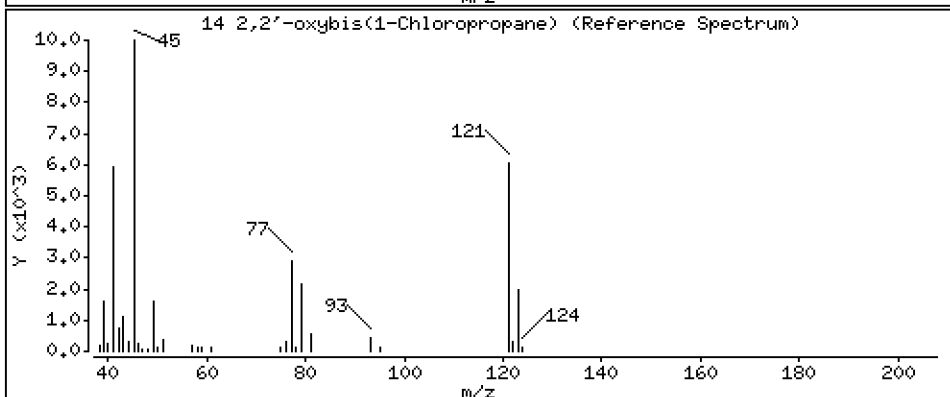
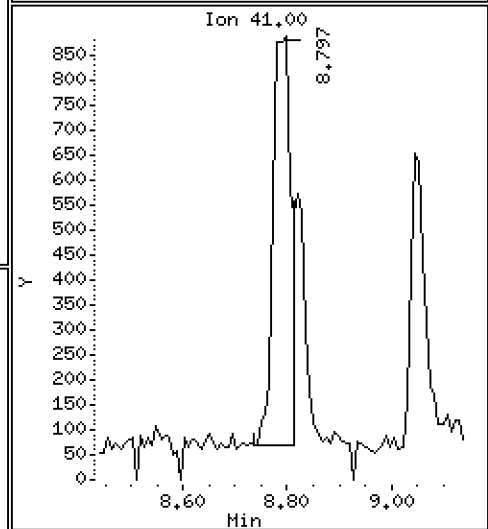
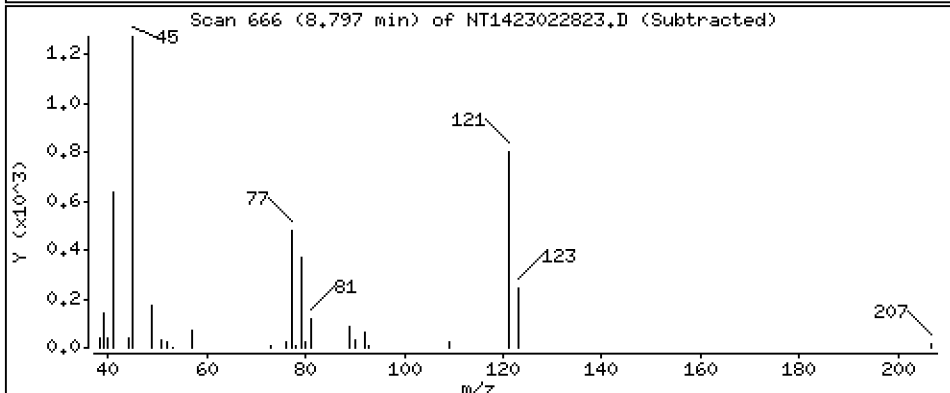
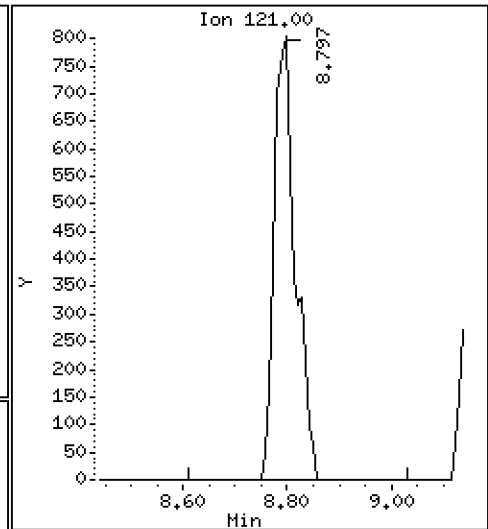
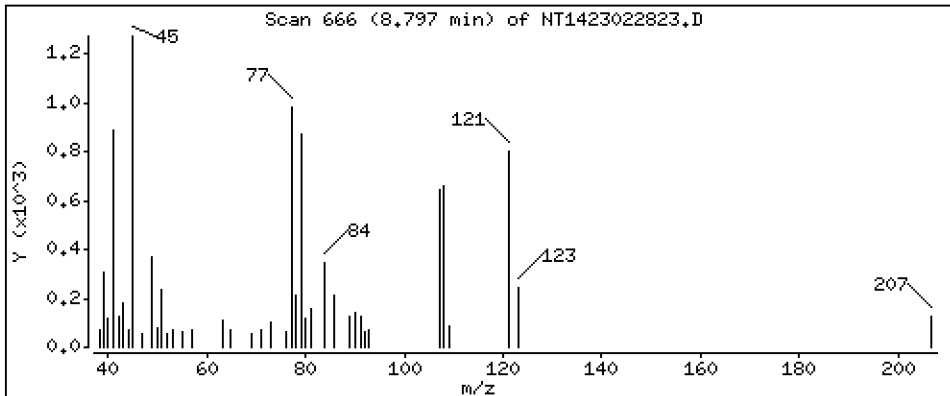
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 0,2138 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

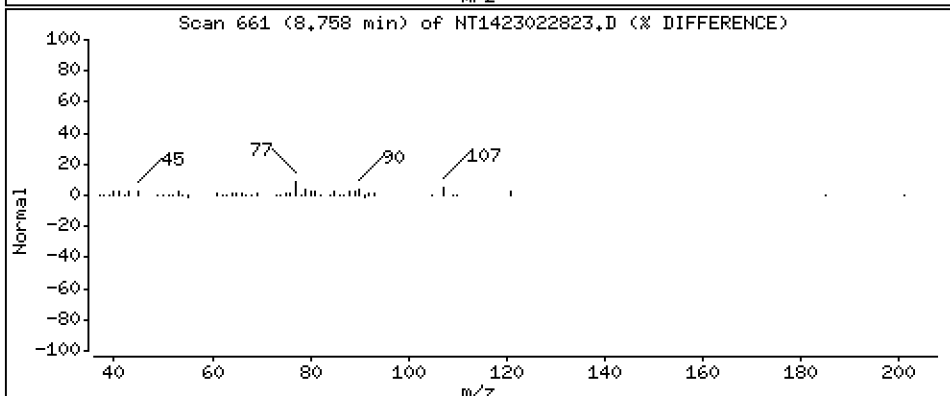
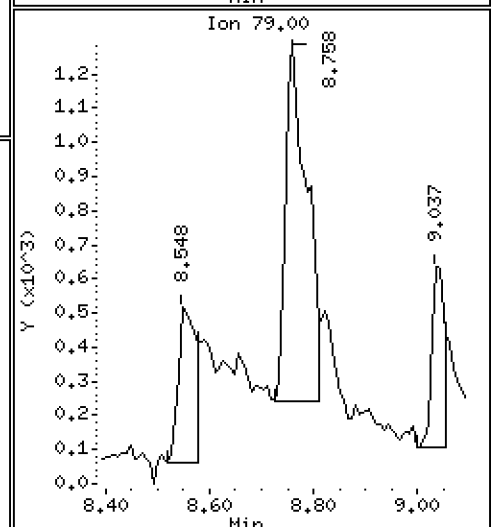
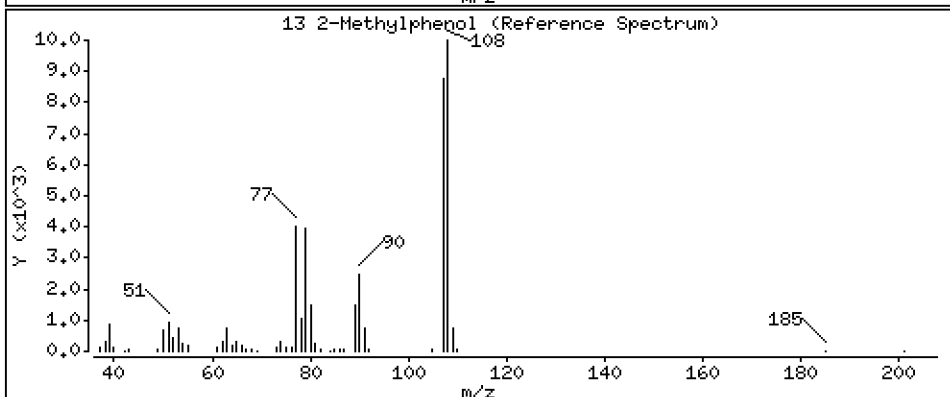
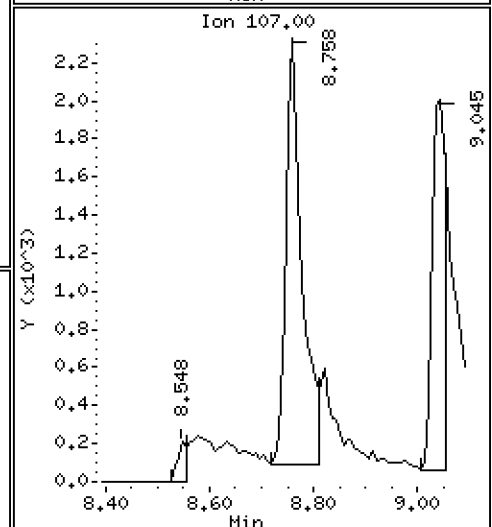
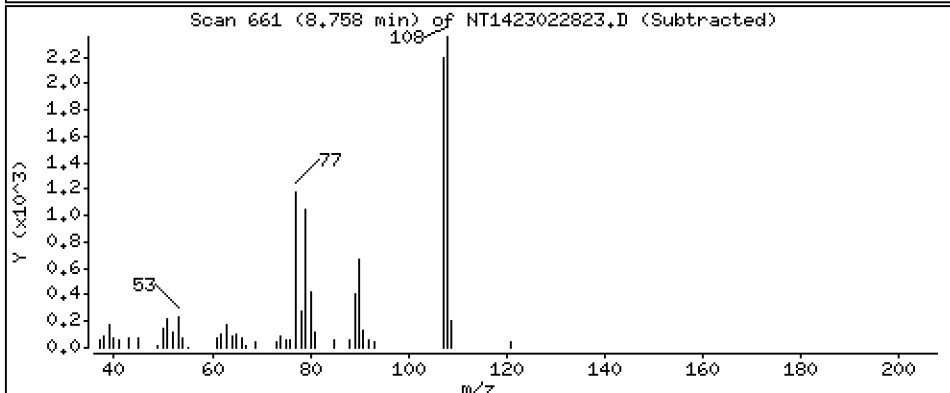
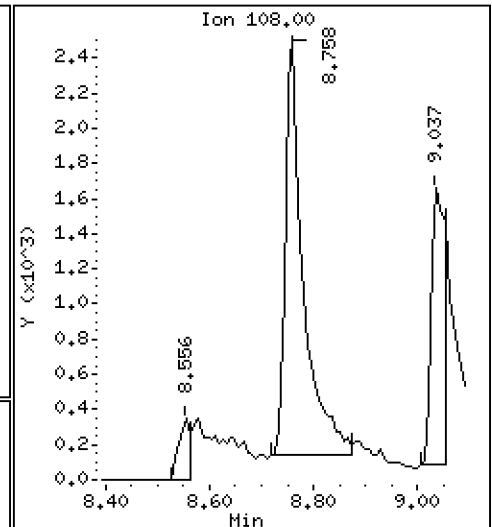
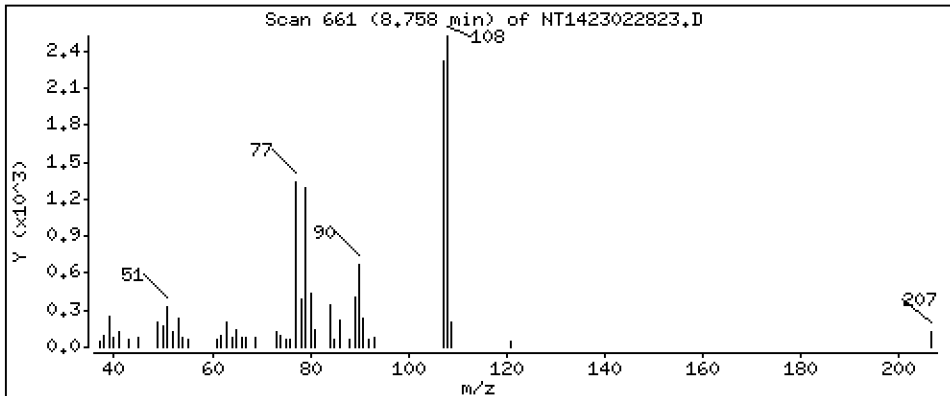
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.1744 ug/mL





Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

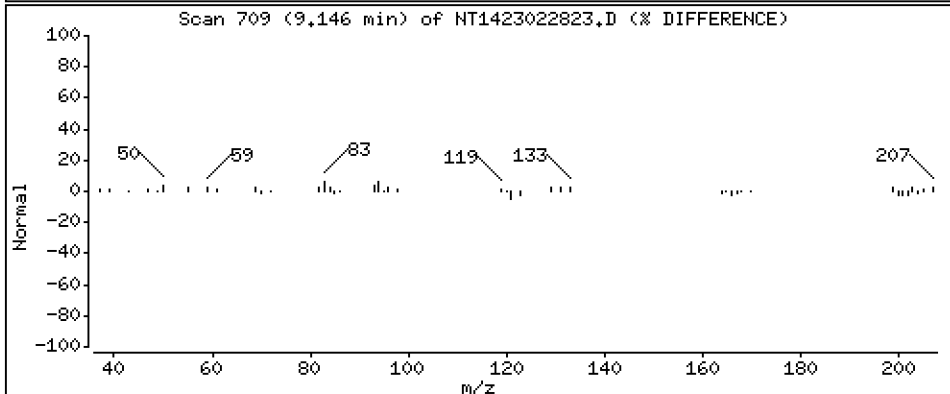
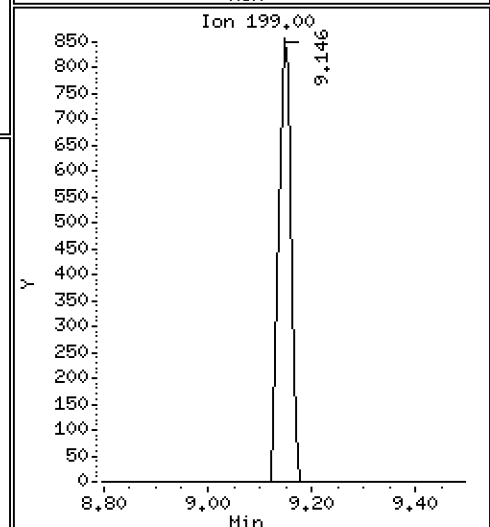
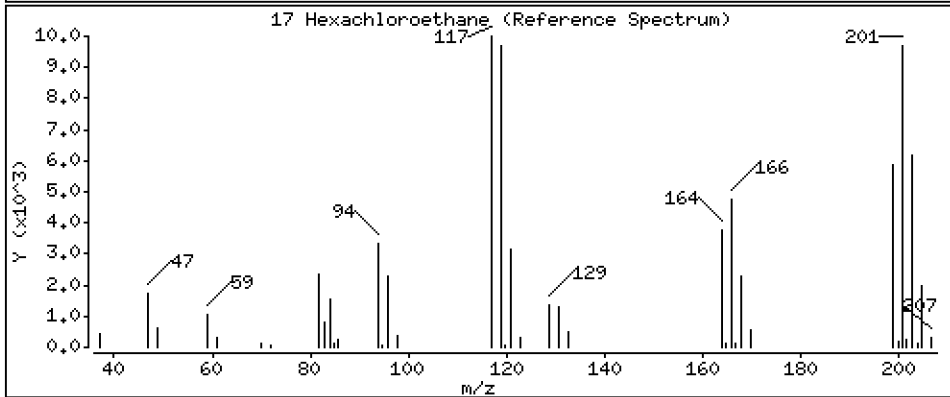
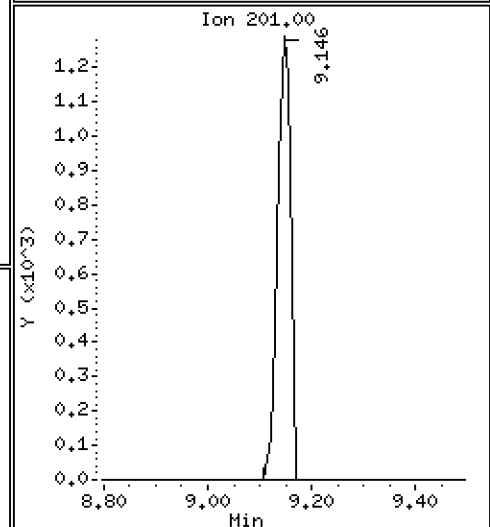
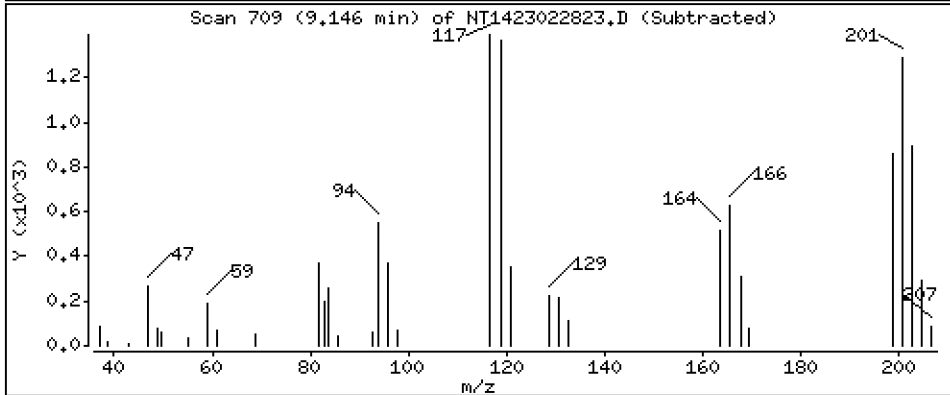
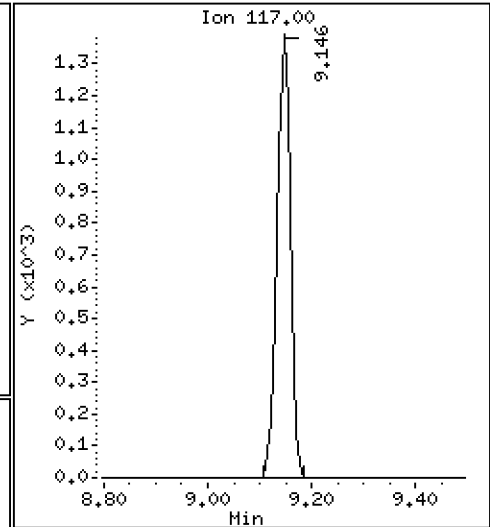
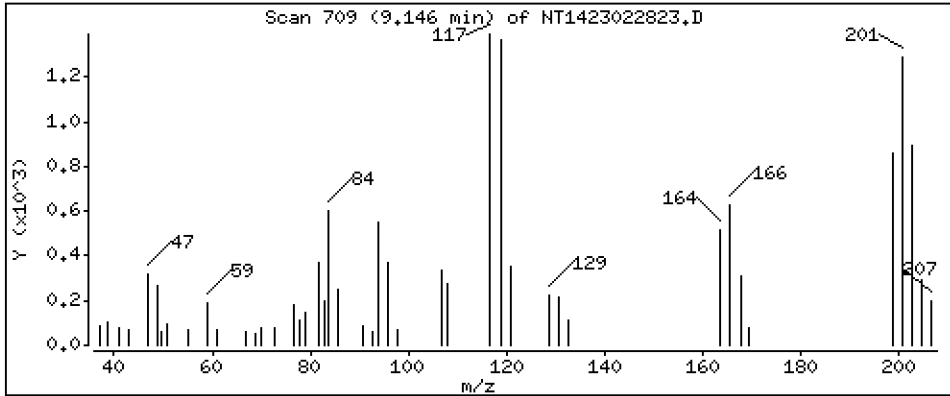
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 0.1493 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

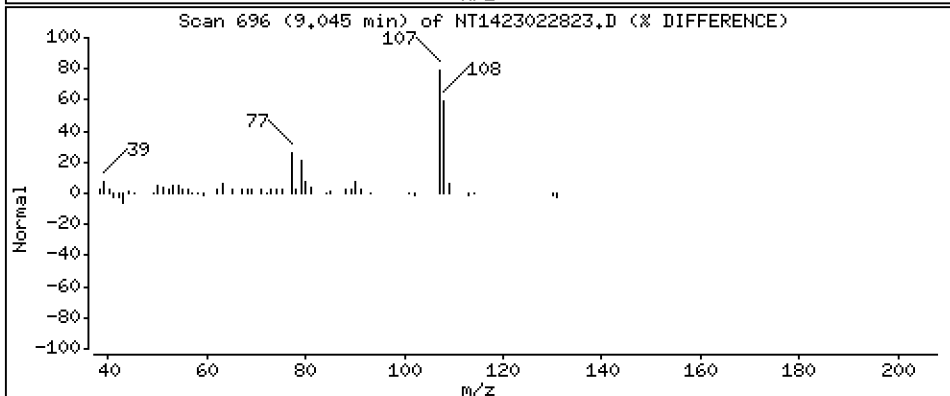
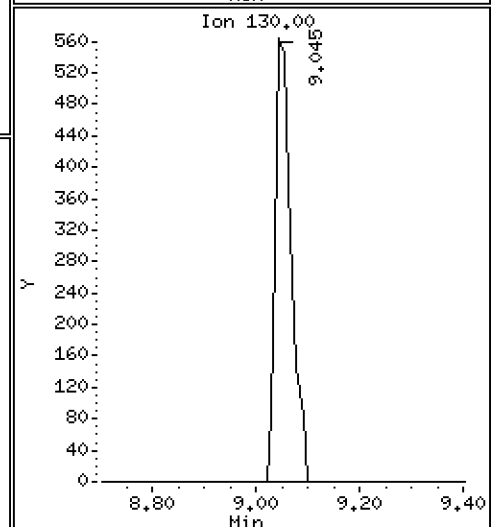
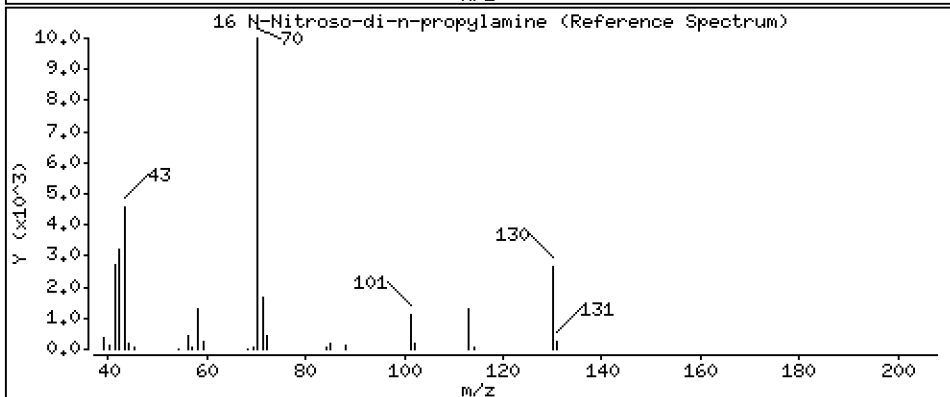
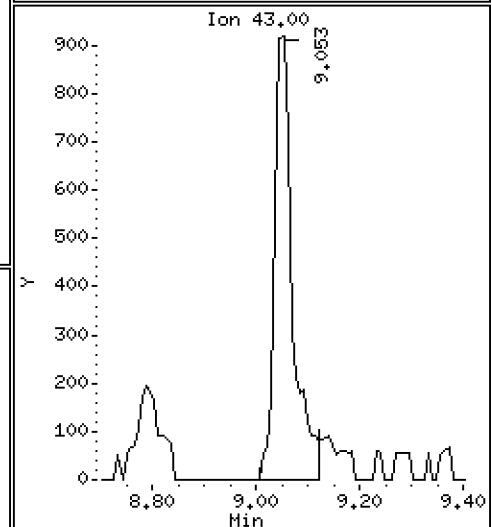
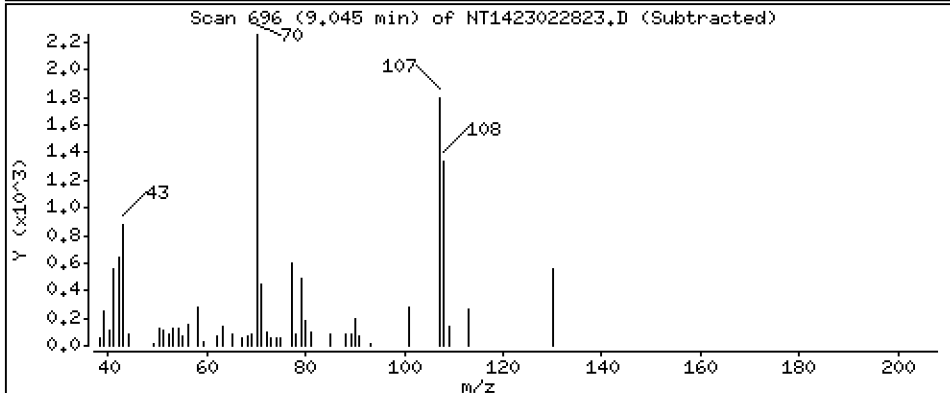
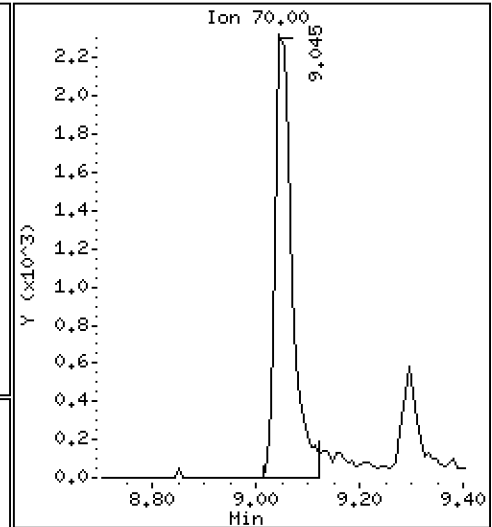
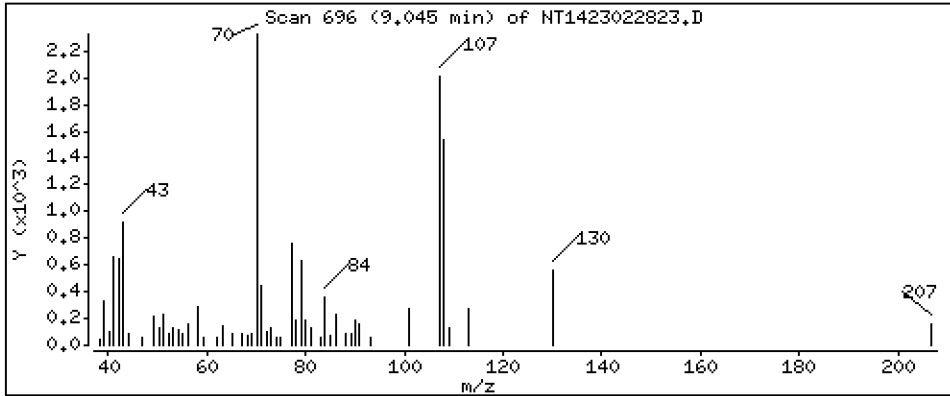
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,2015 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

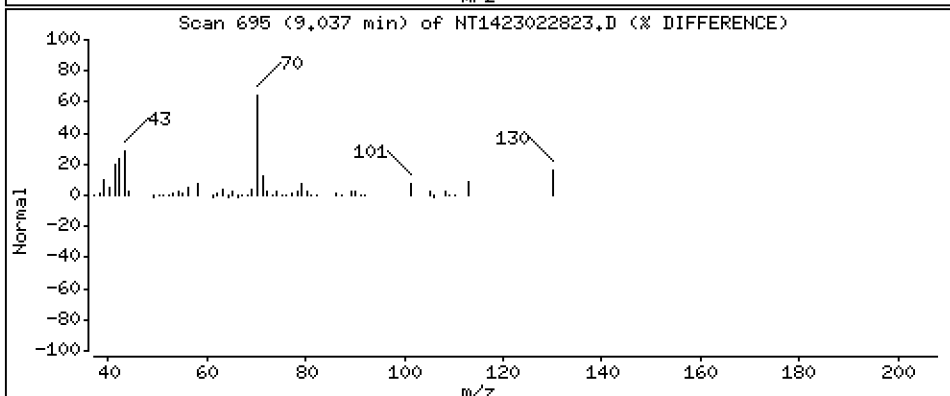
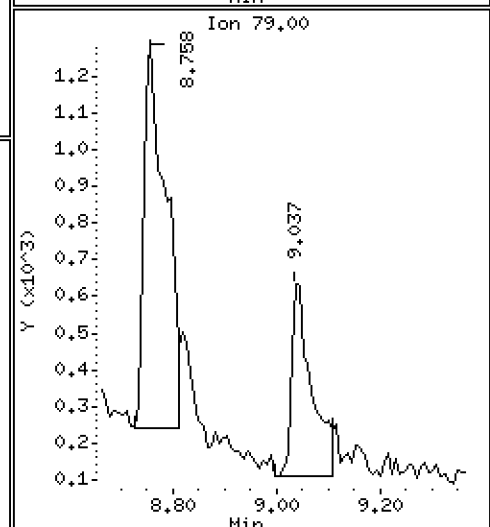
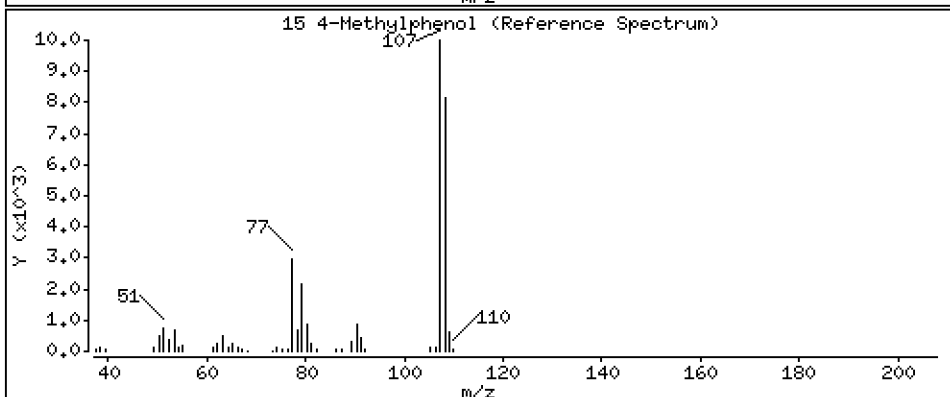
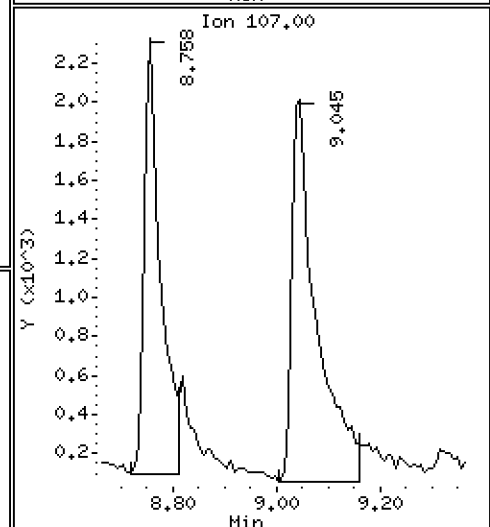
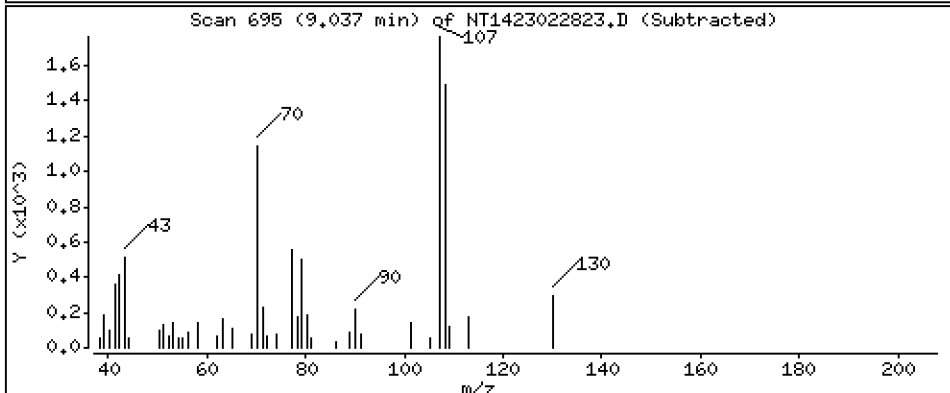
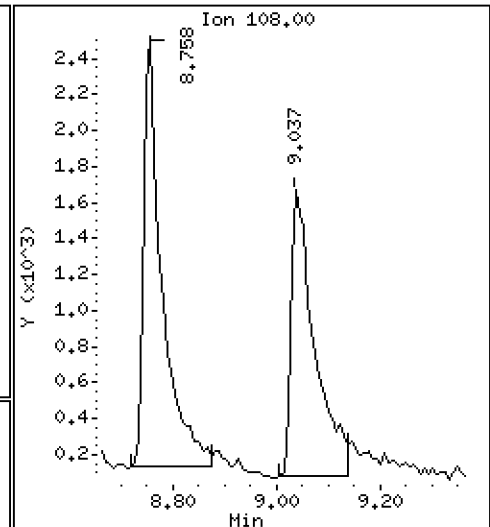
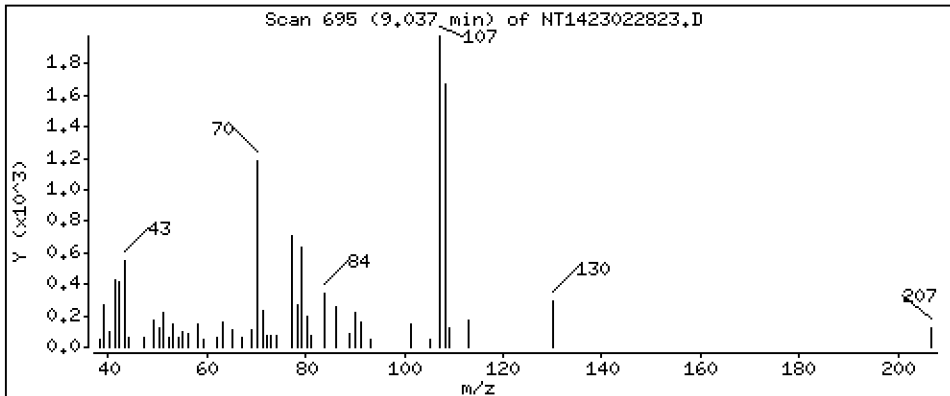
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1318 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

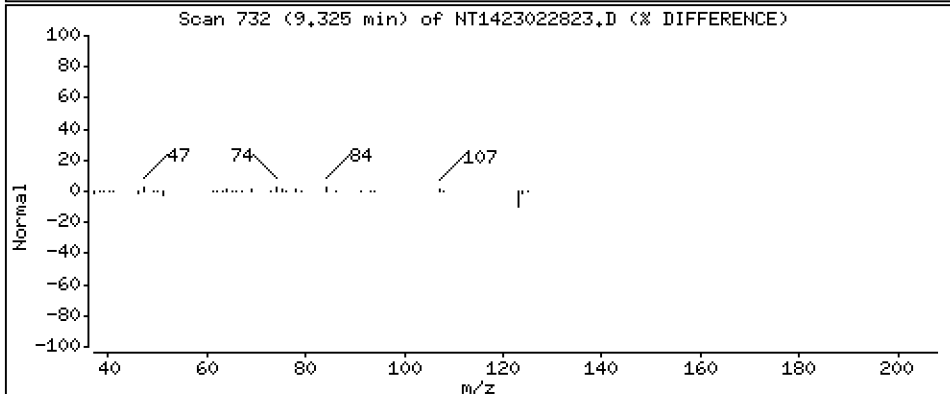
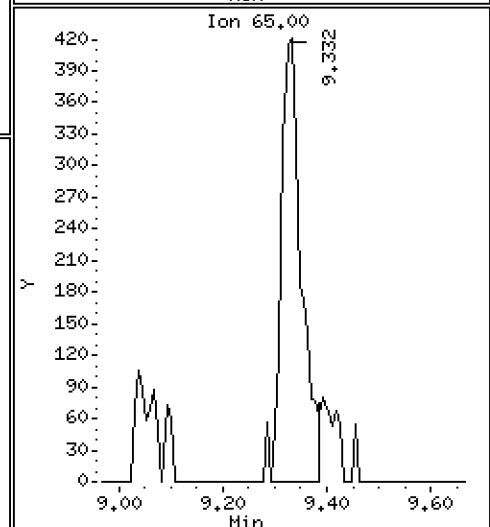
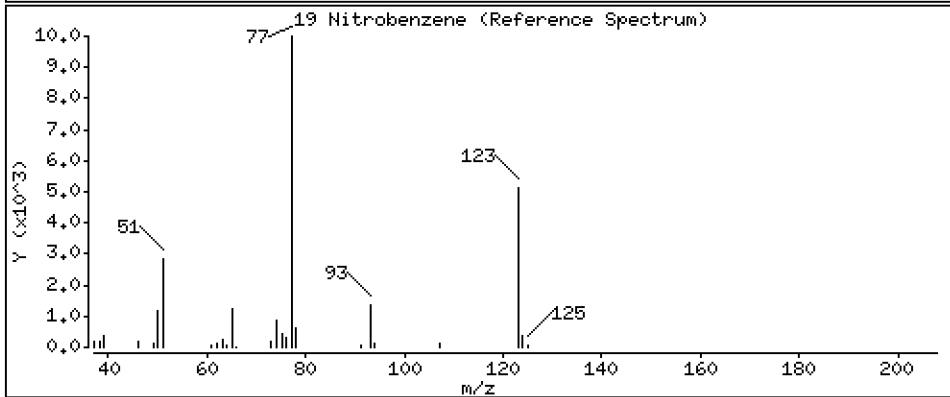
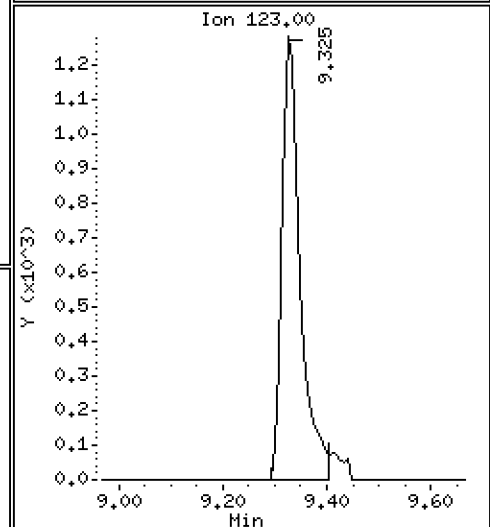
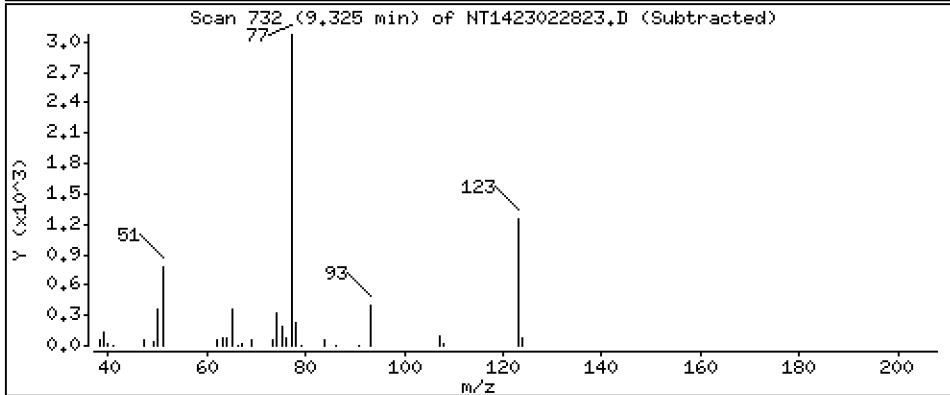
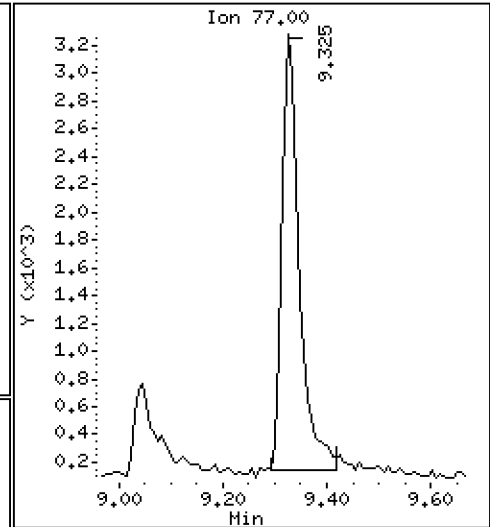
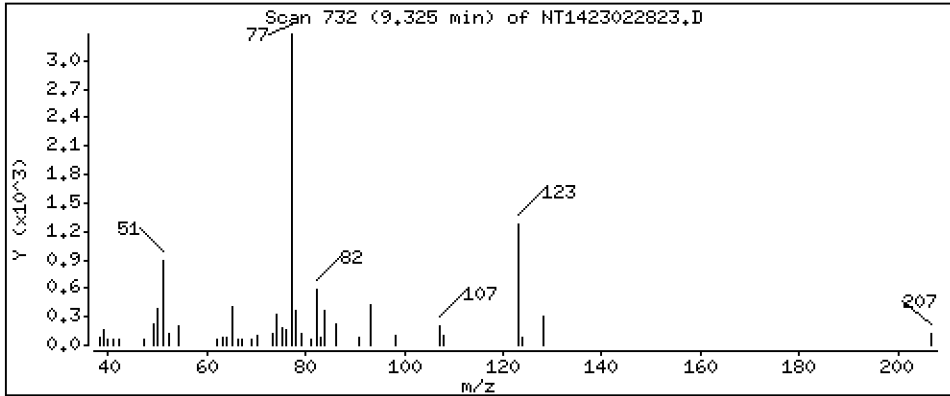
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,1841 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

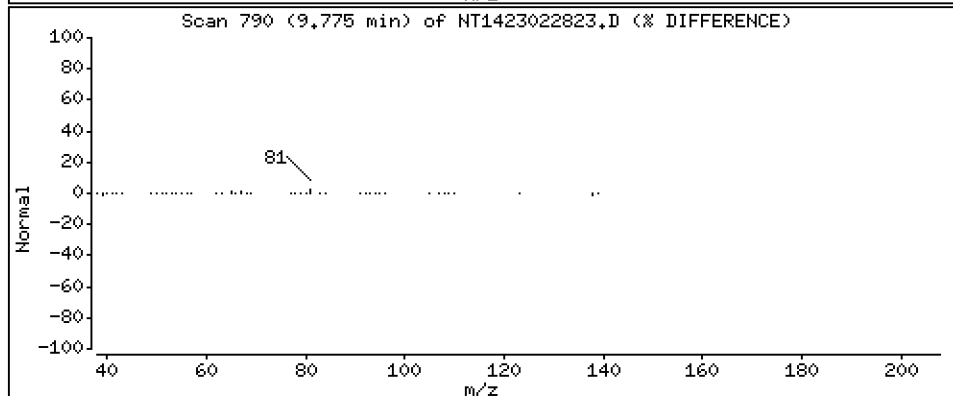
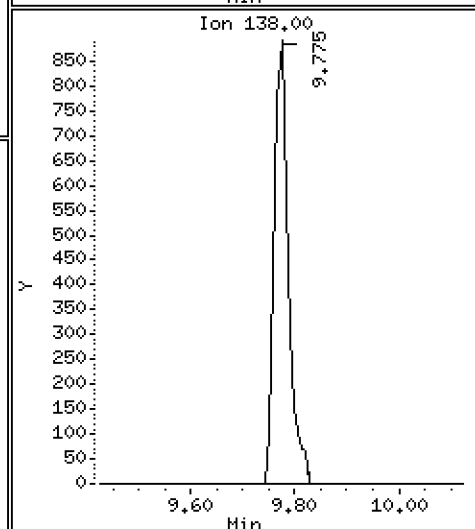
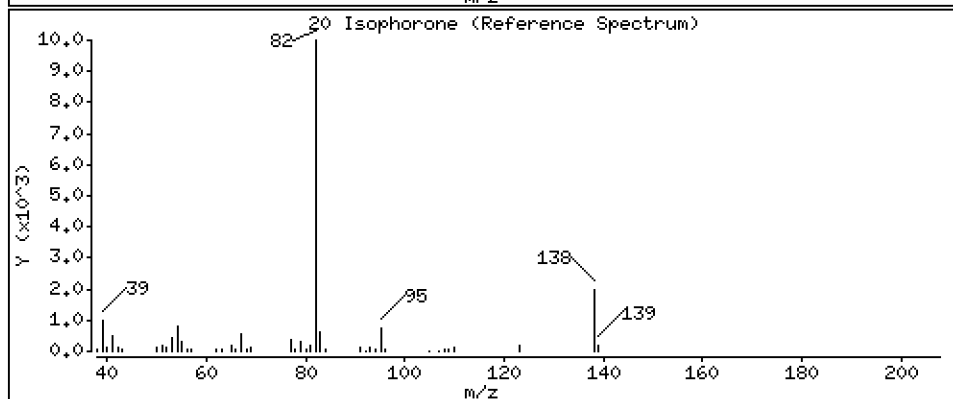
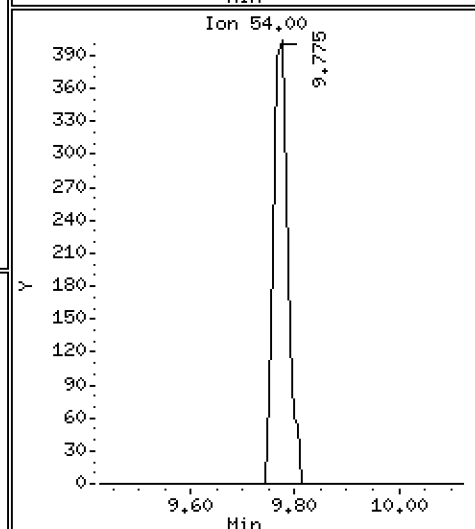
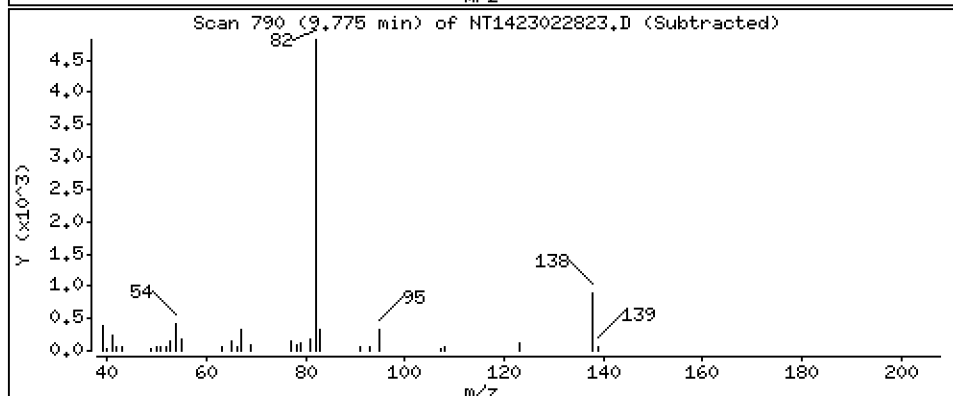
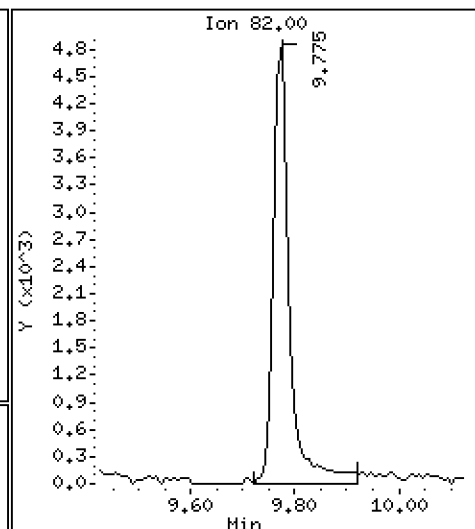
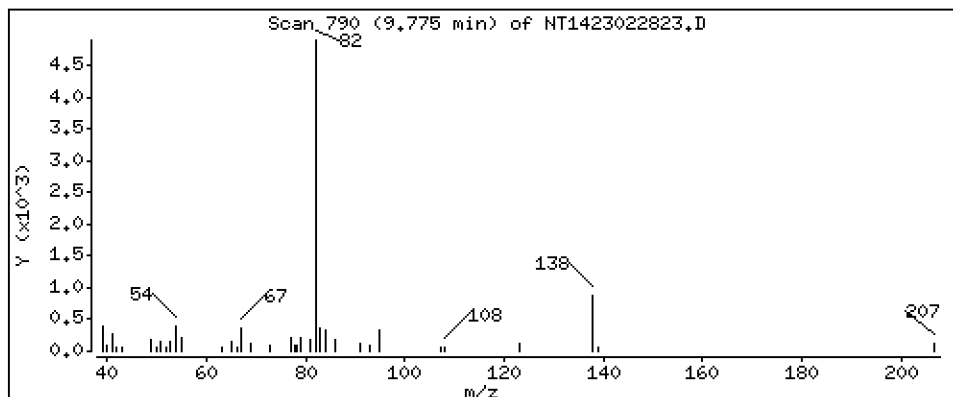
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 0,1811 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

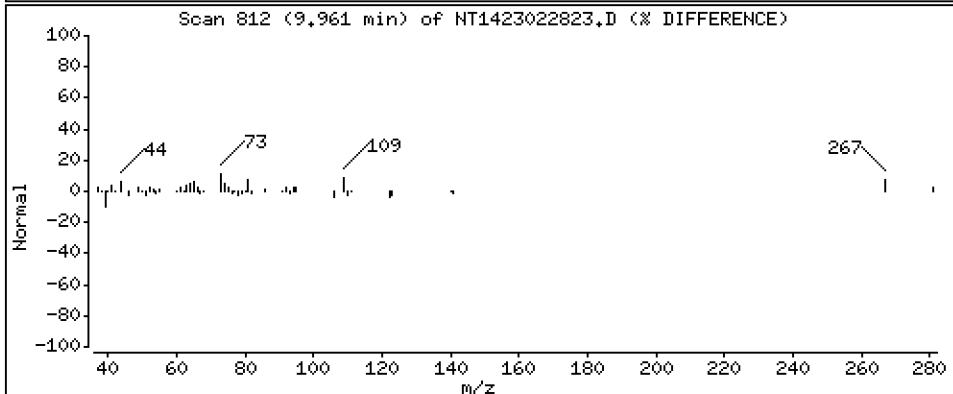
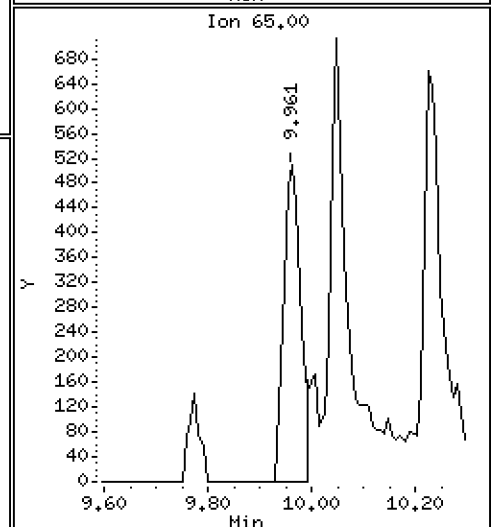
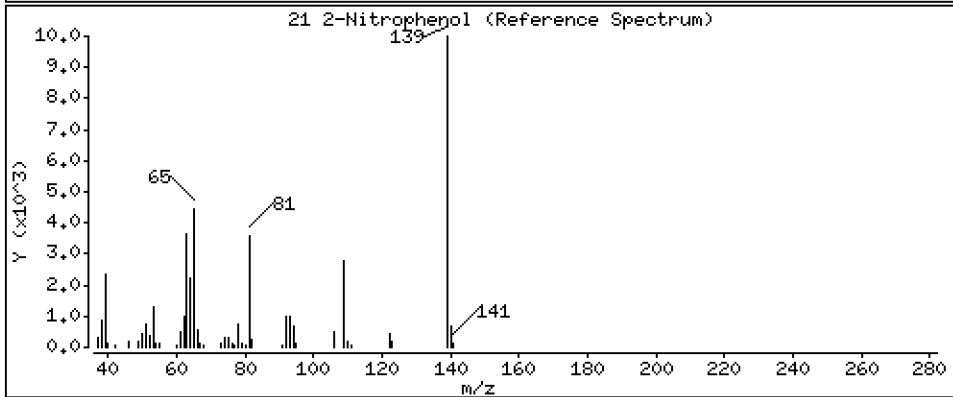
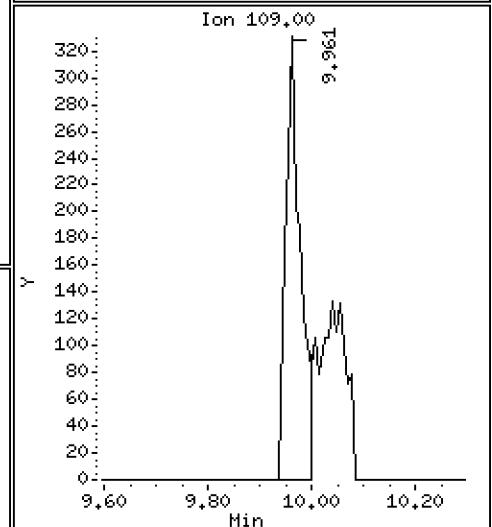
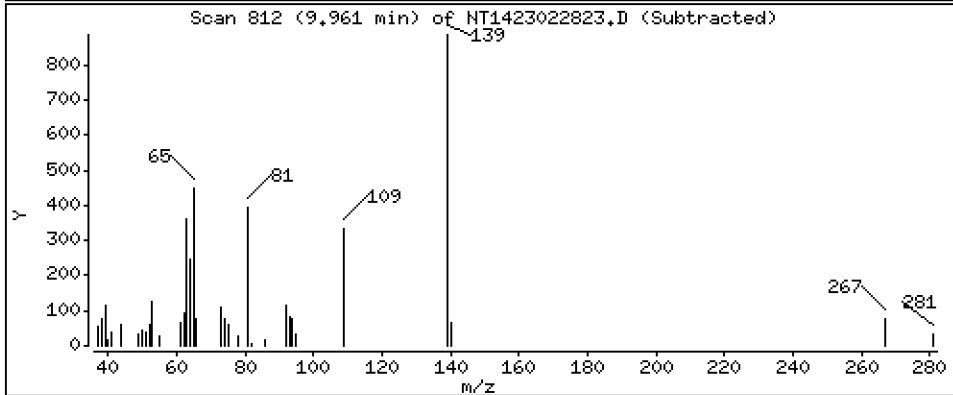
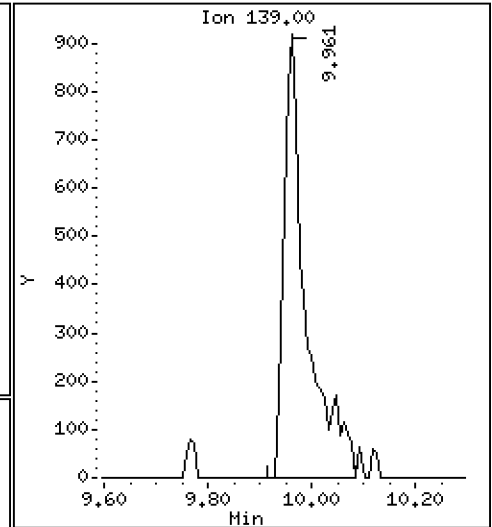
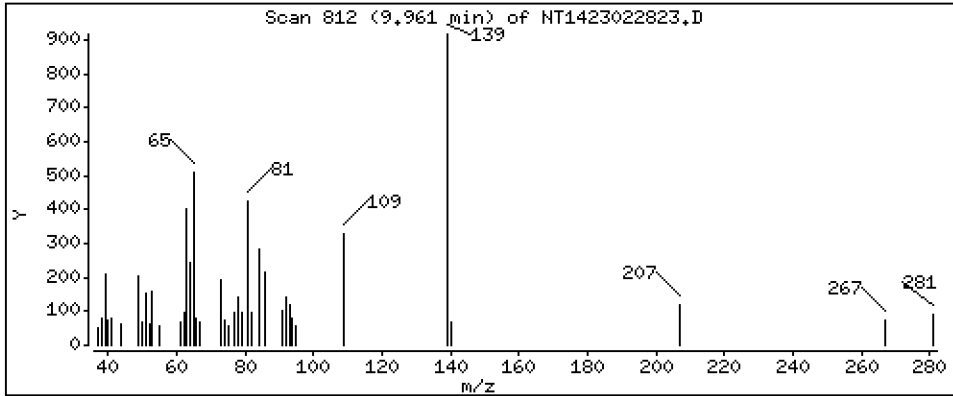
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,1380 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

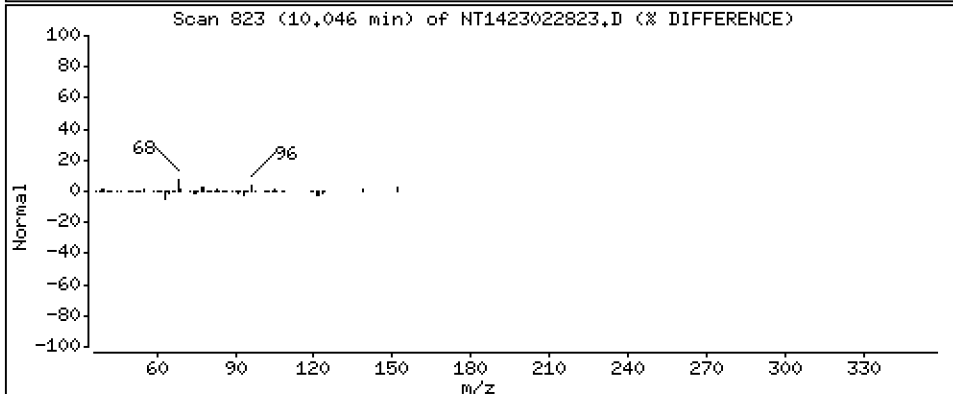
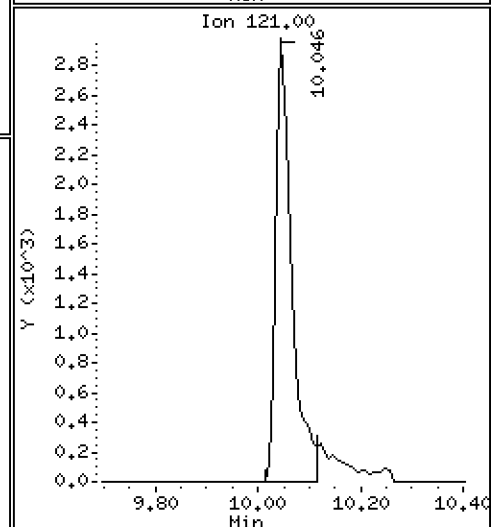
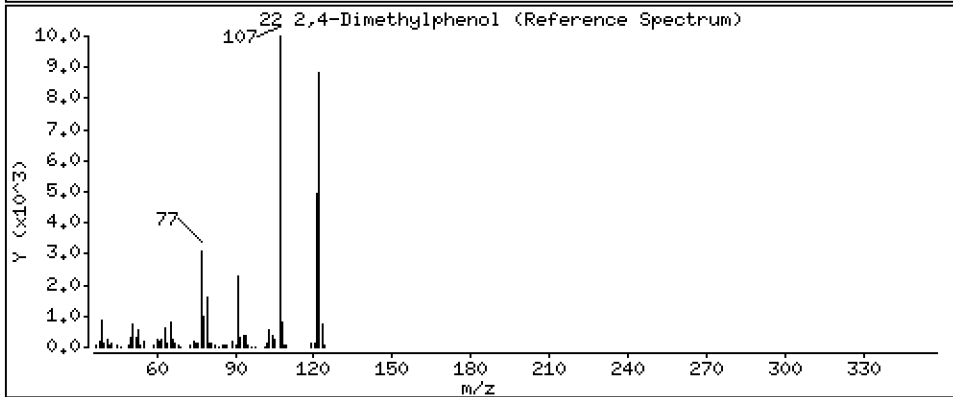
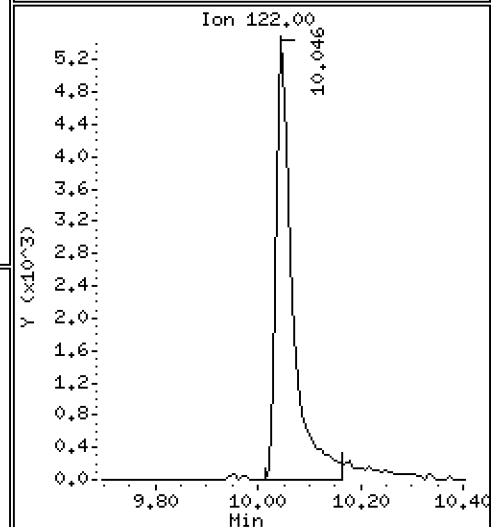
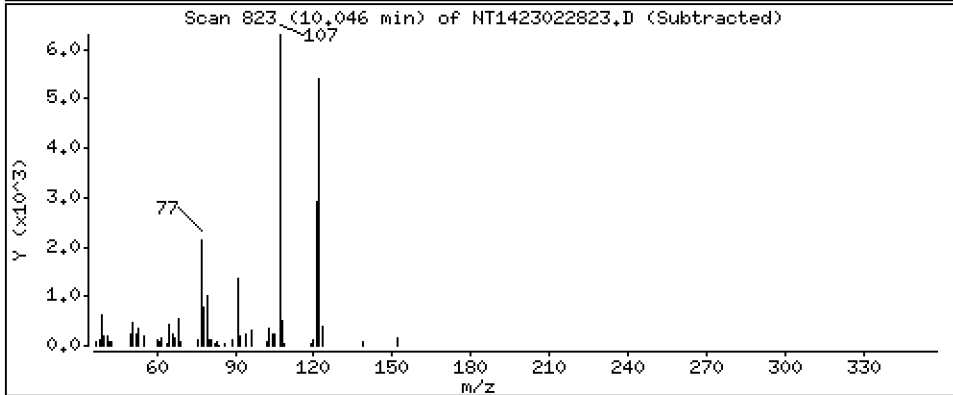
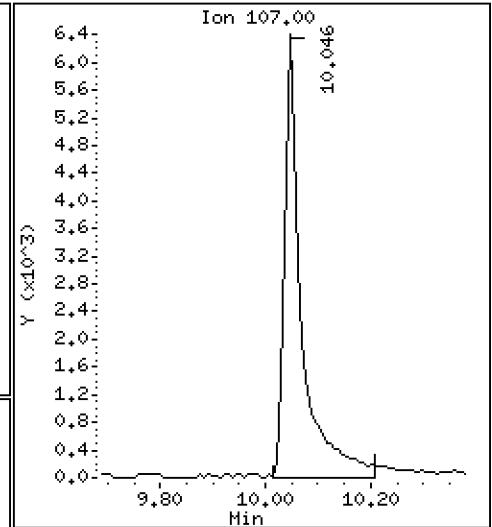
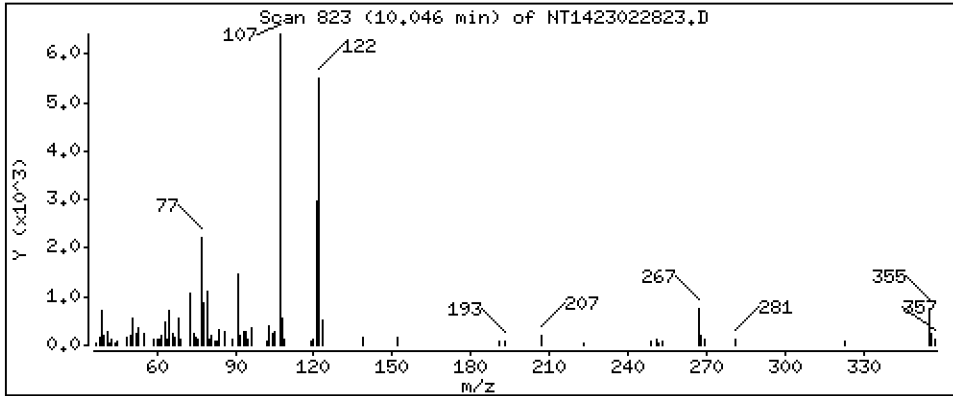
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,4132 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

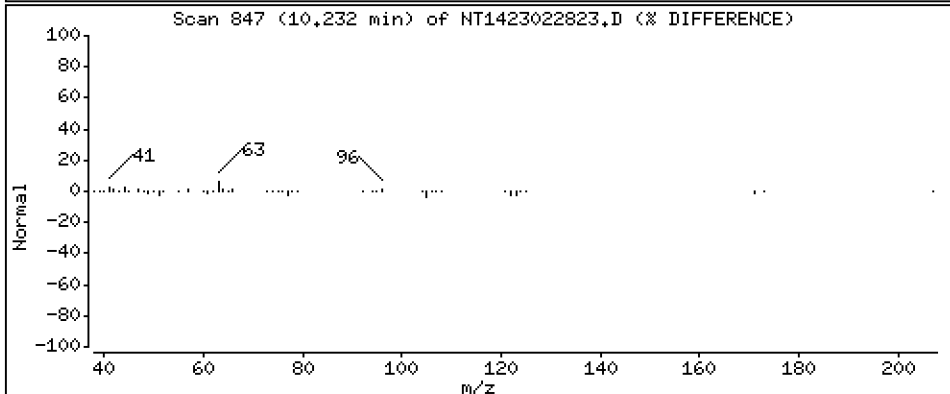
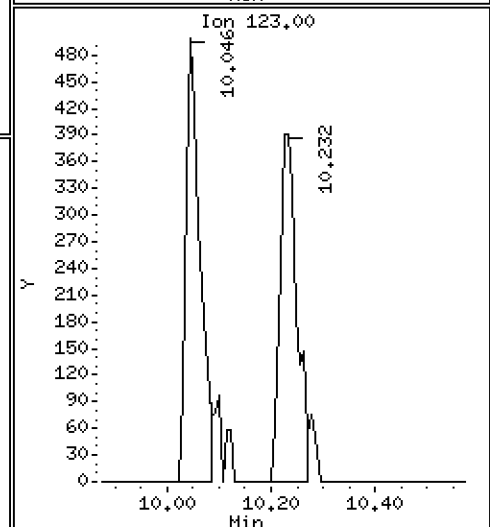
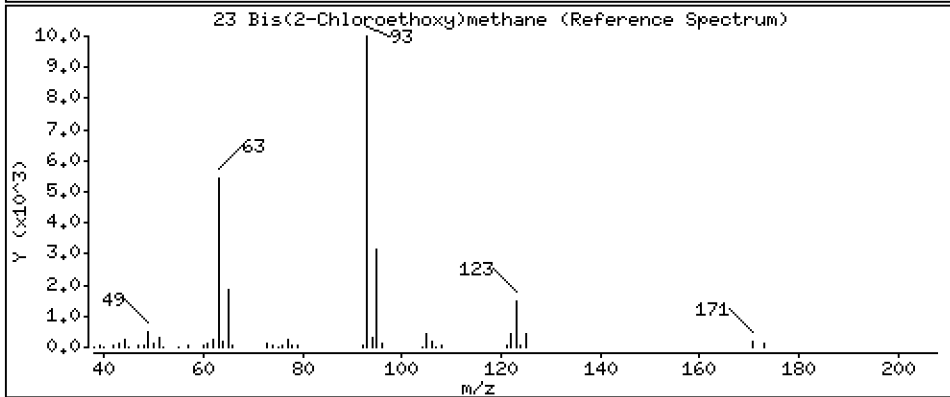
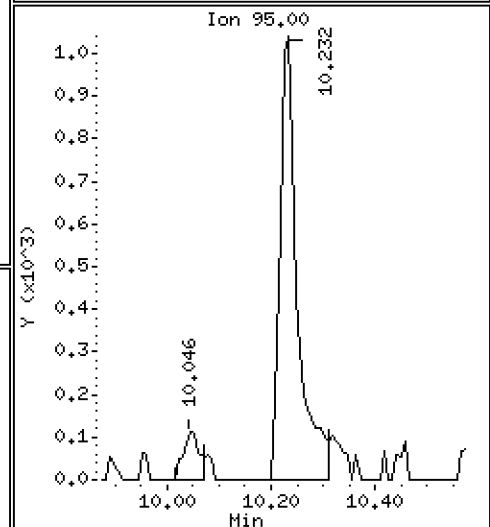
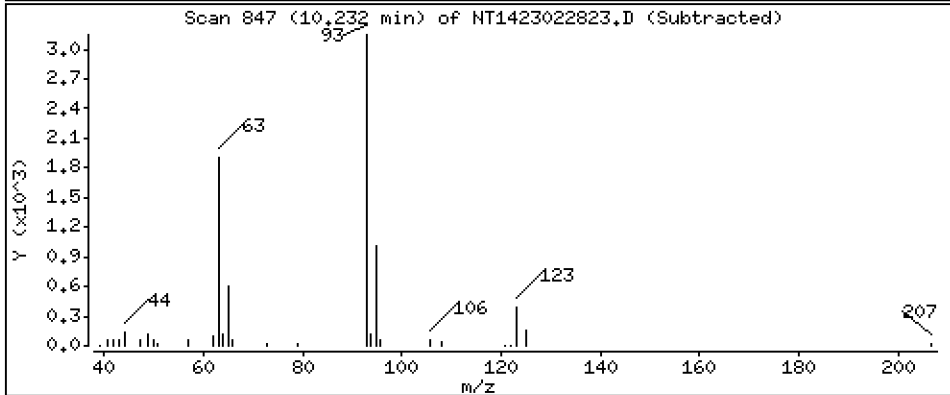
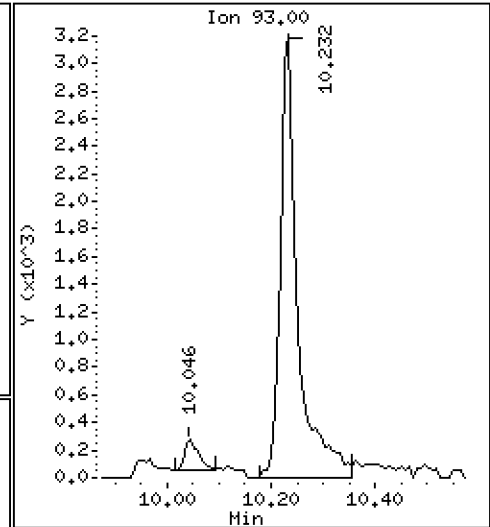
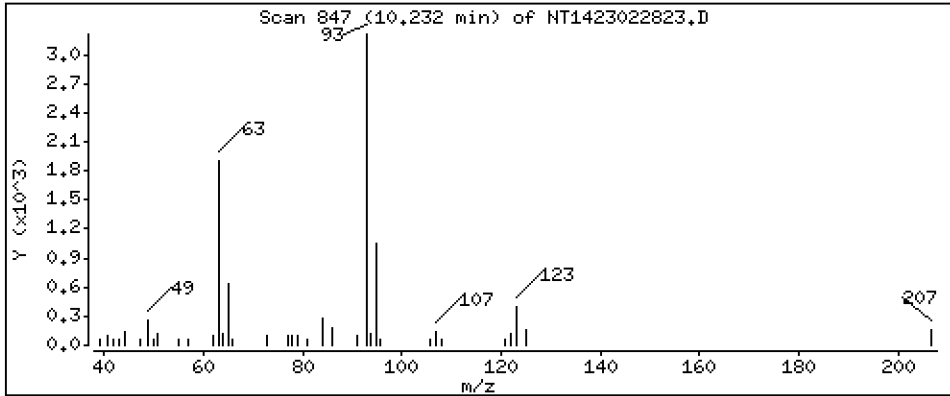
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 0.1957 ug/mL





Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

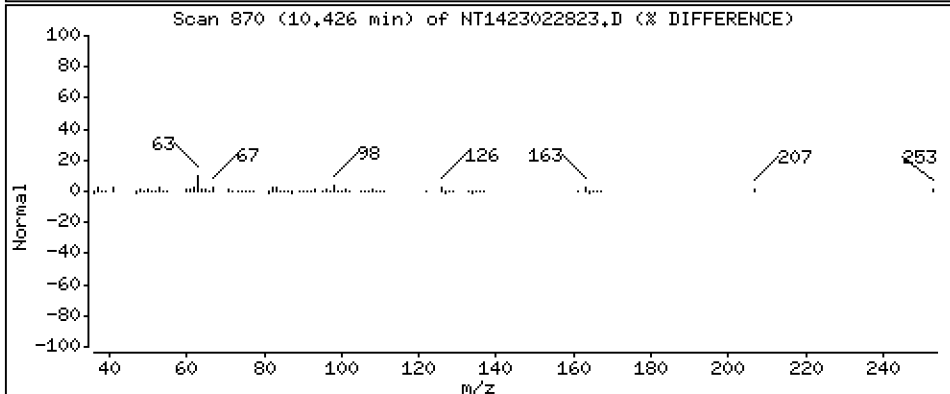
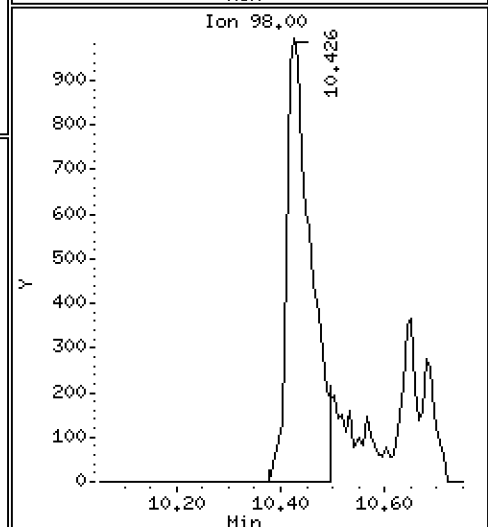
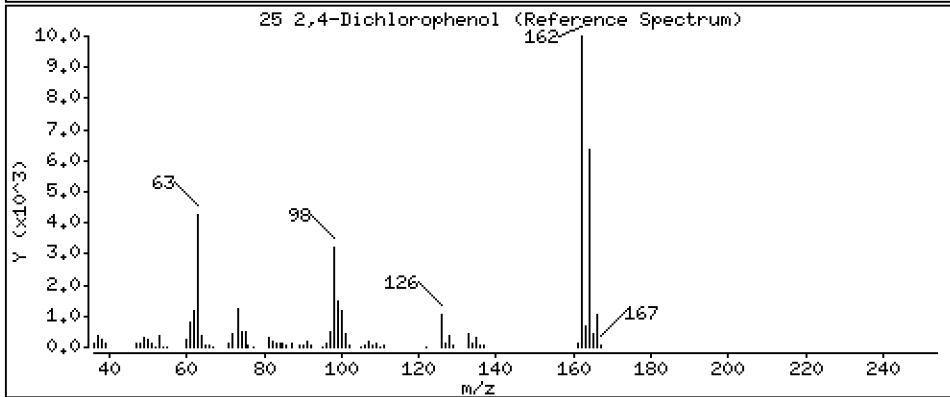
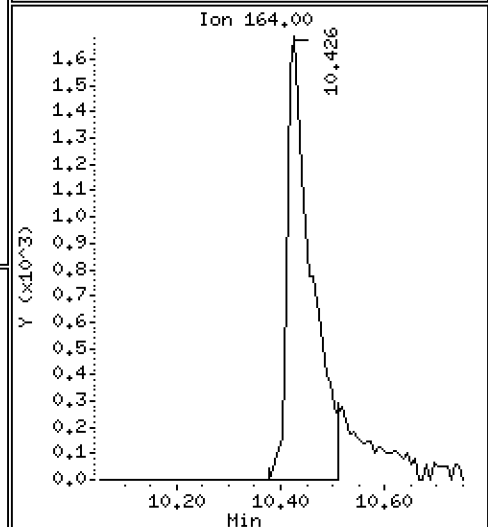
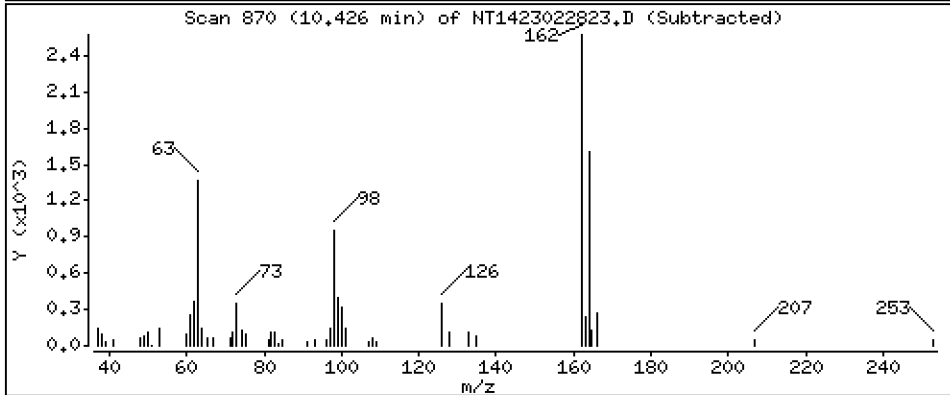
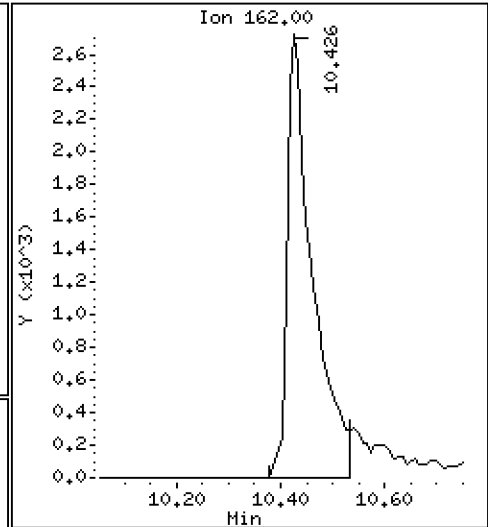
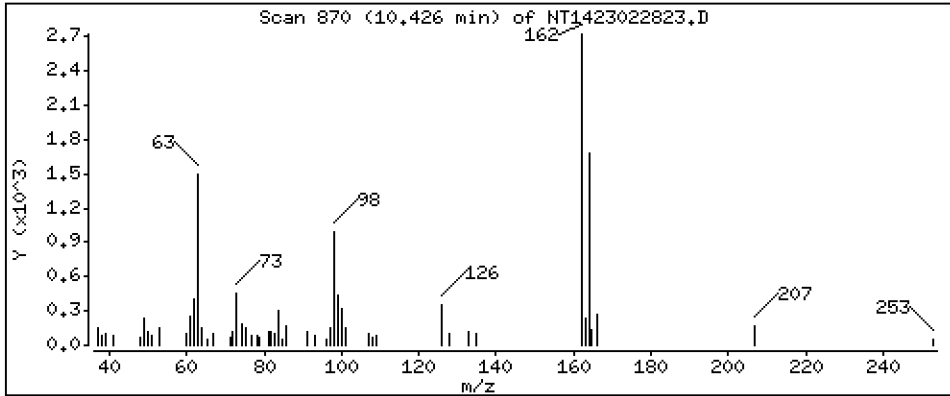
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,2896 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

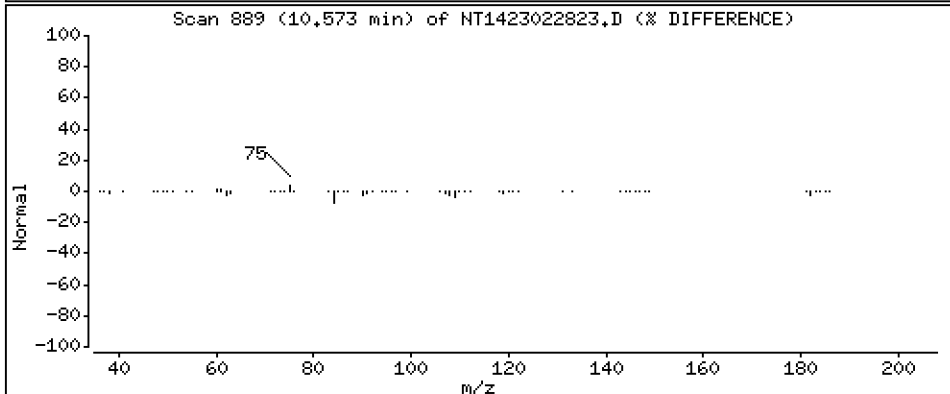
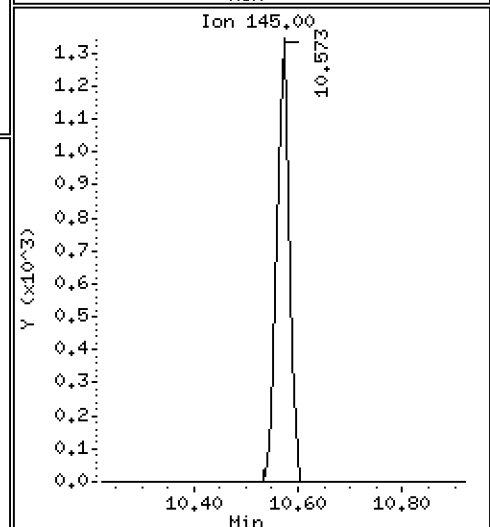
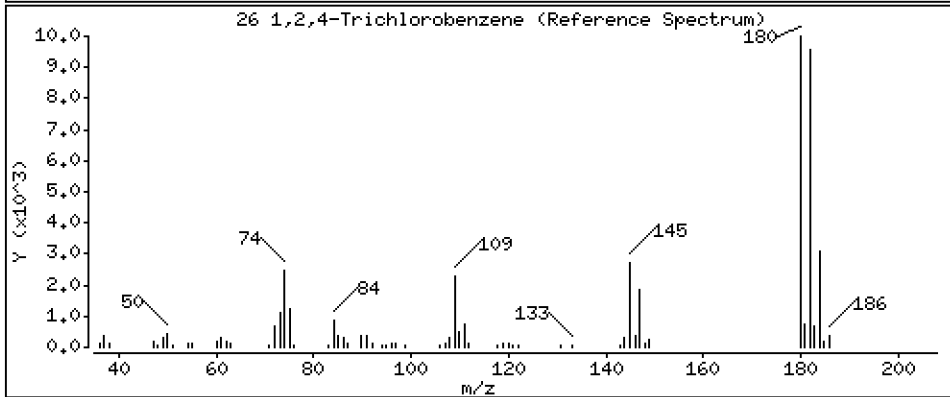
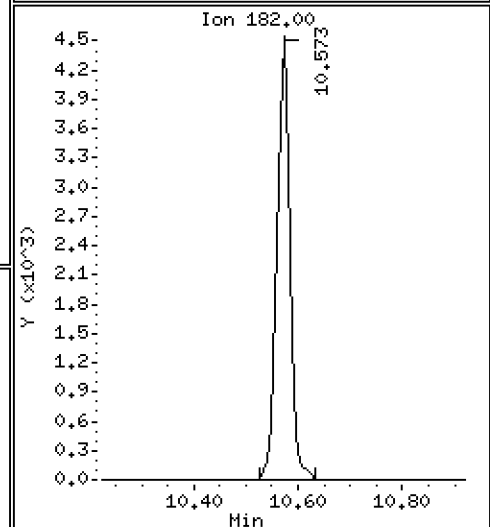
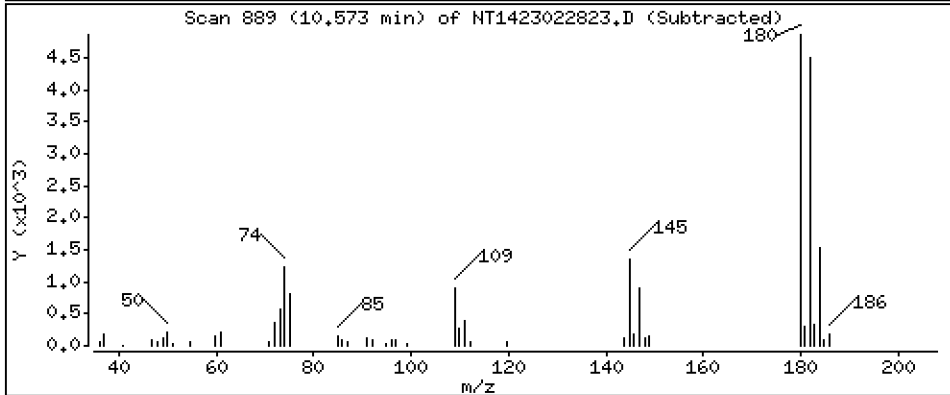
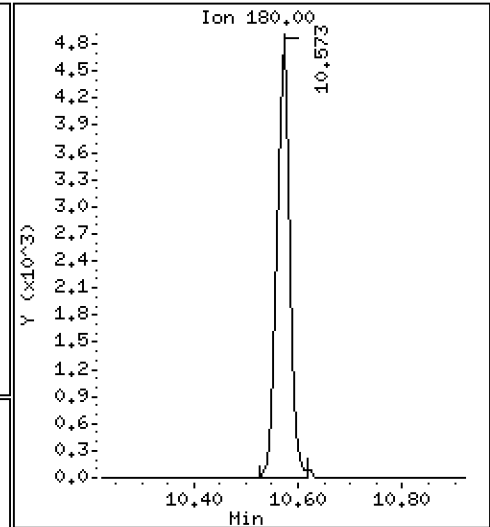
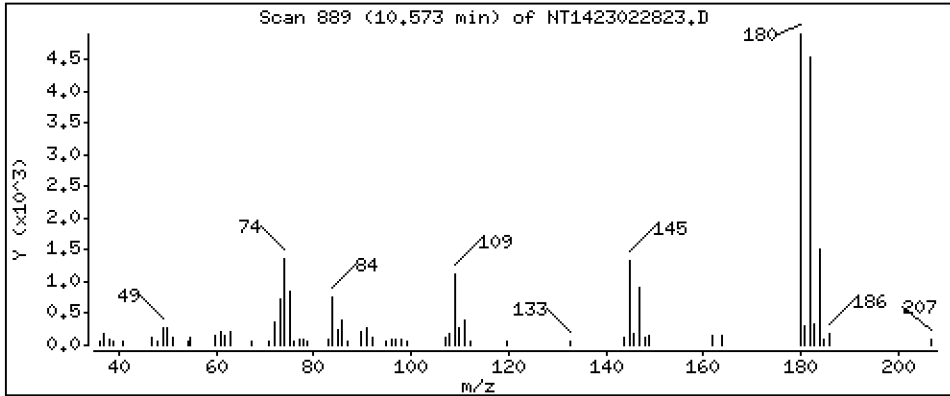
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,2035 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

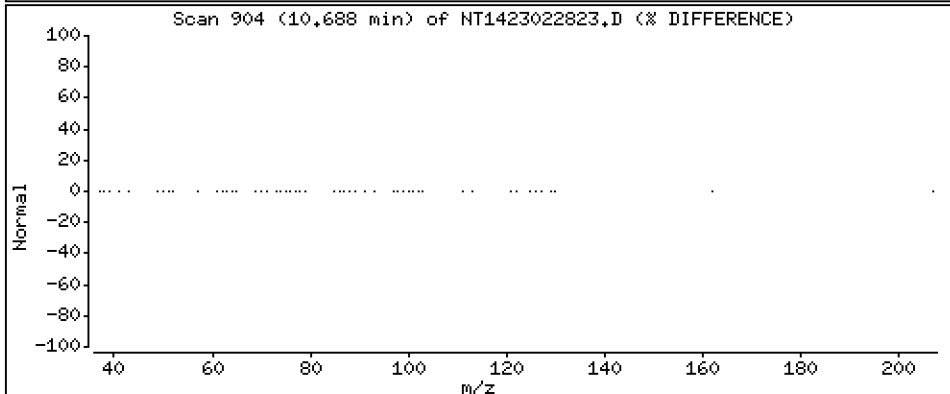
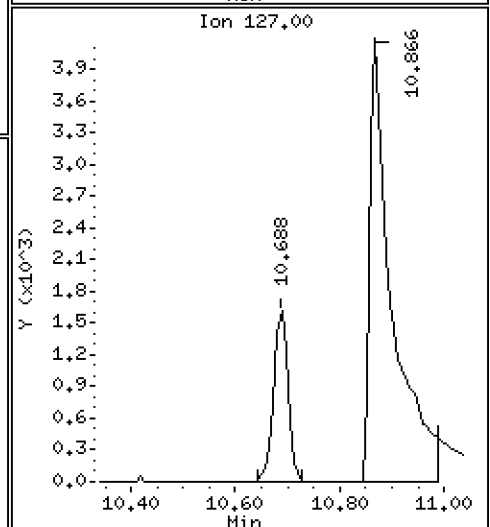
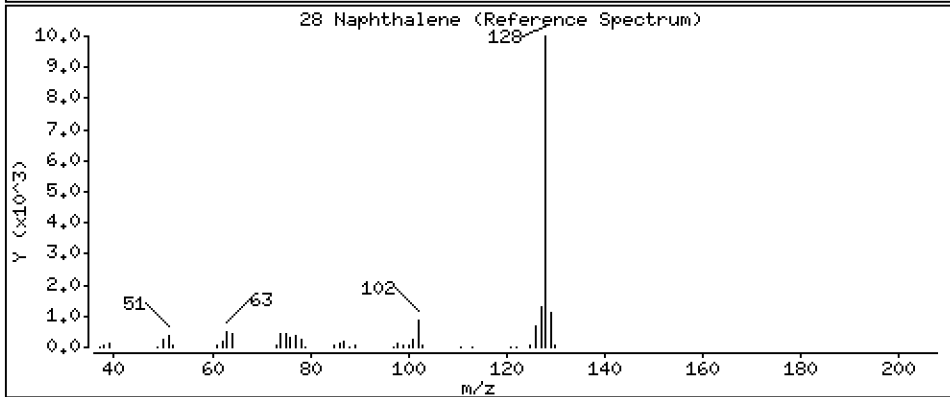
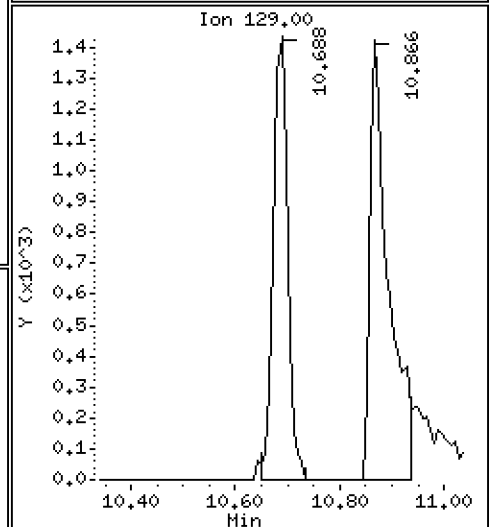
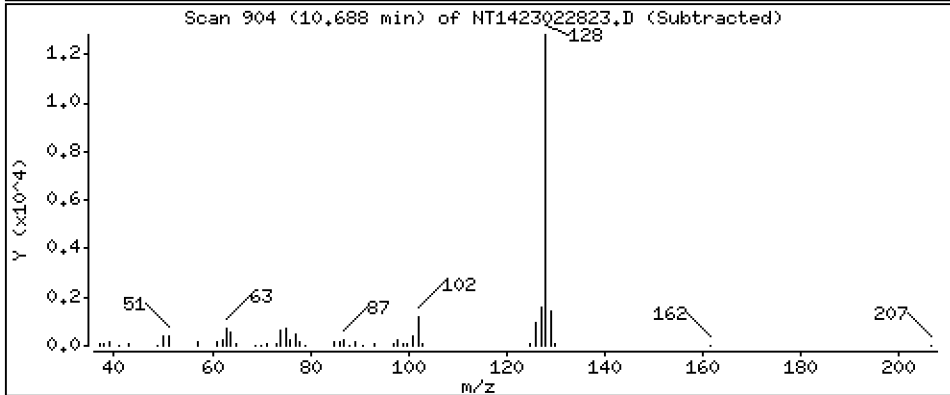
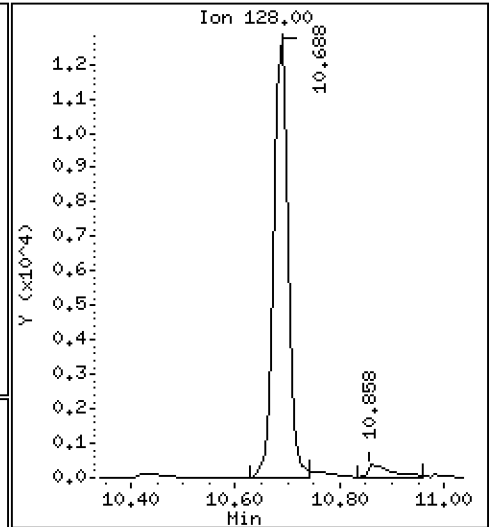
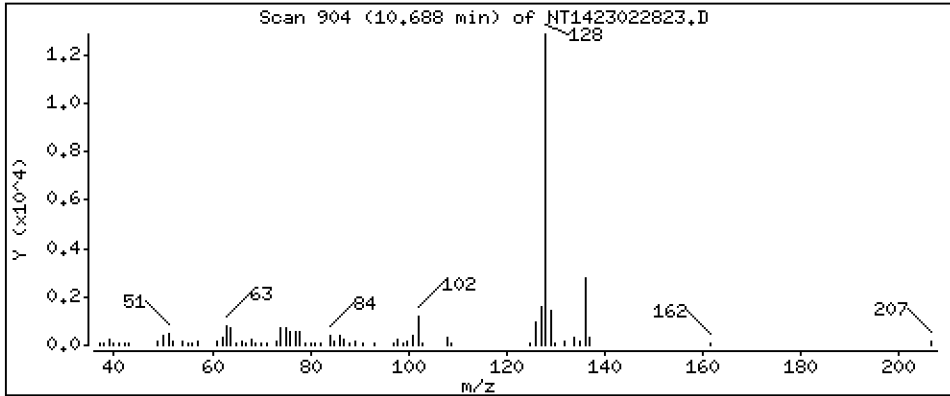
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2136 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

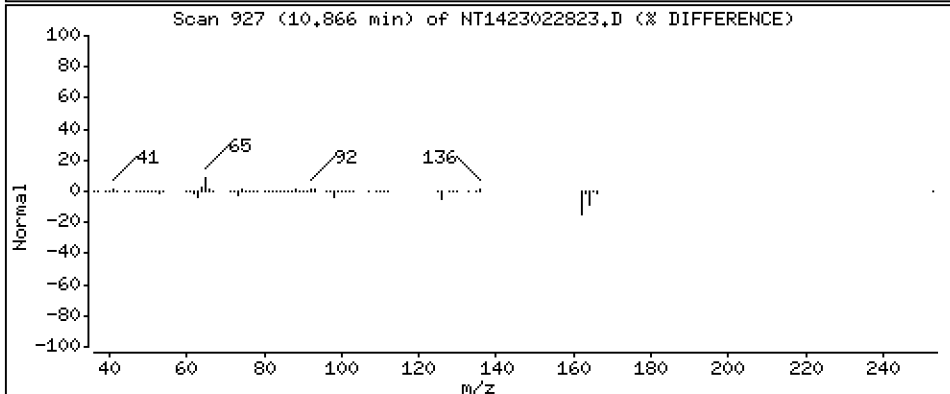
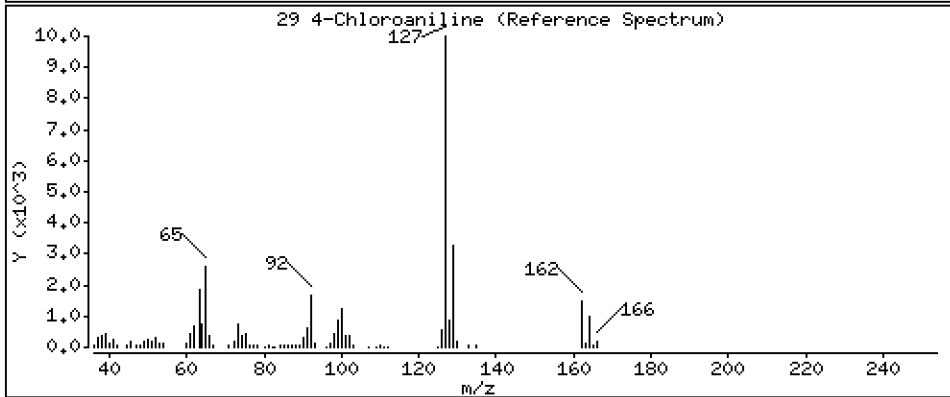
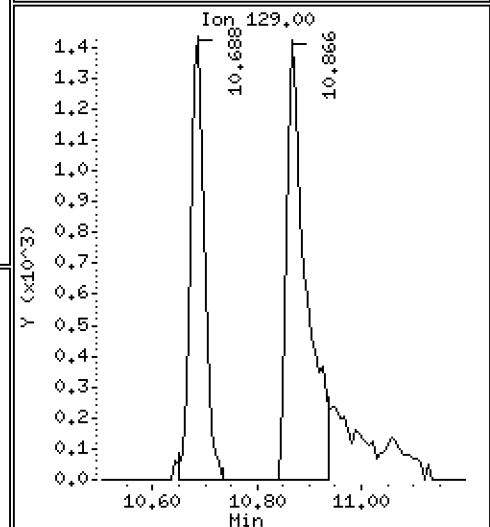
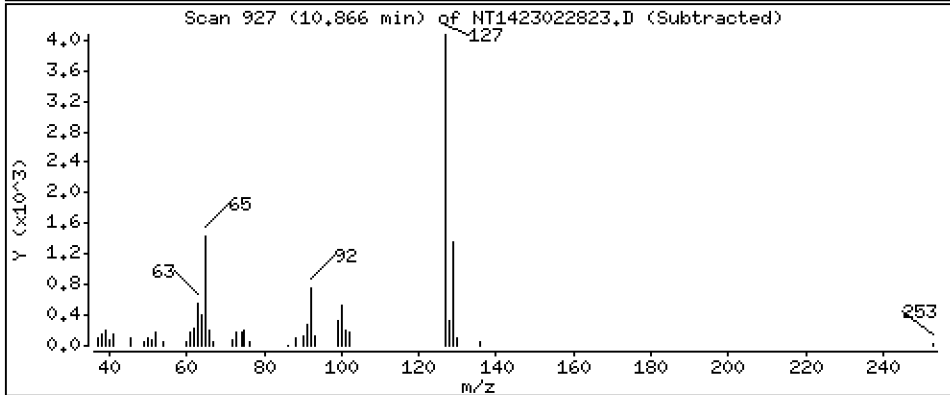
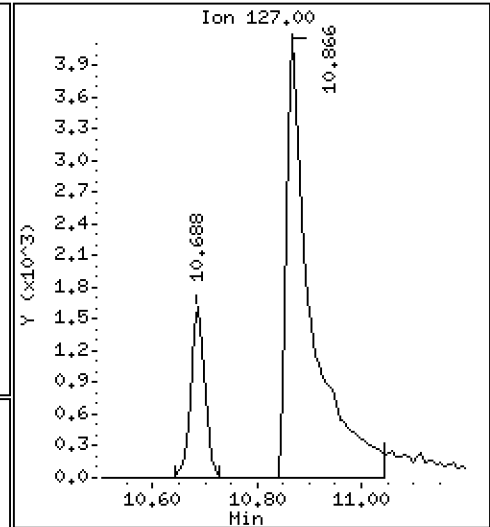
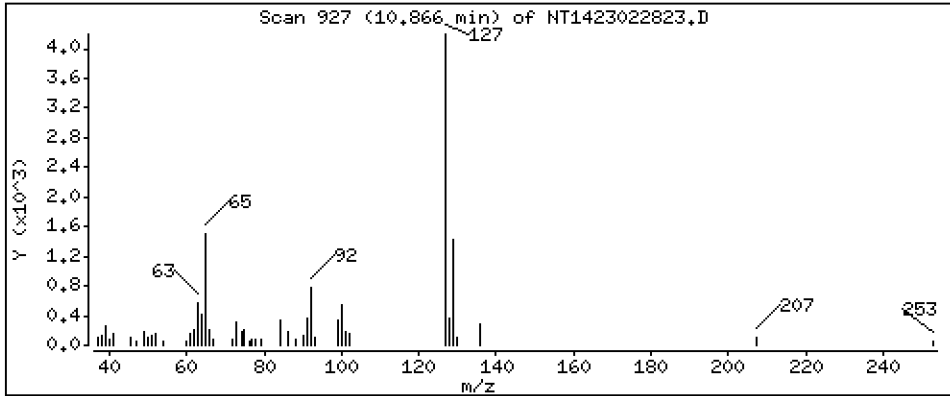
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3143 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

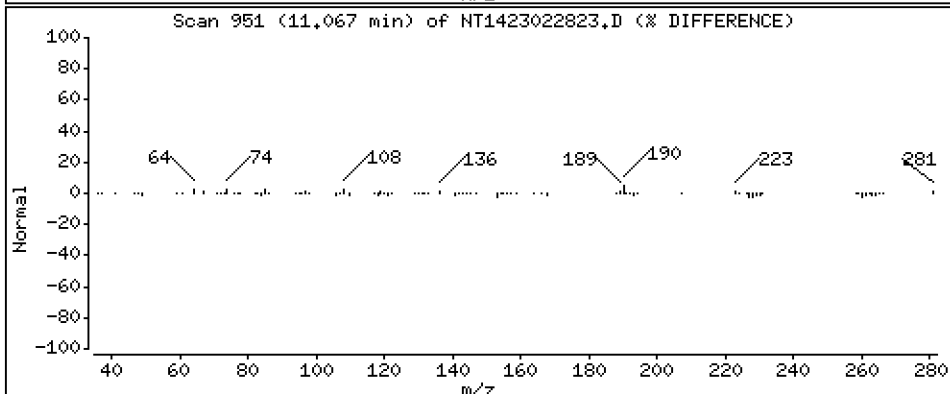
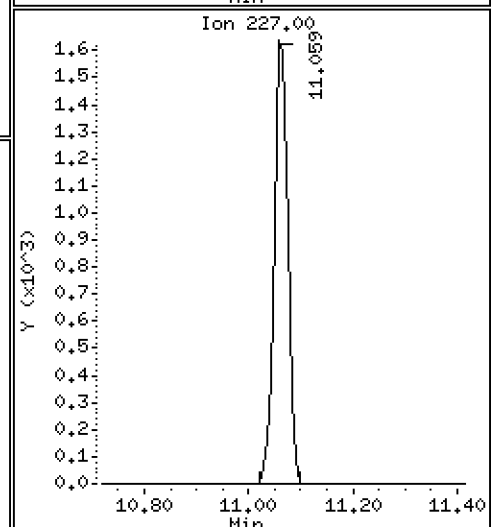
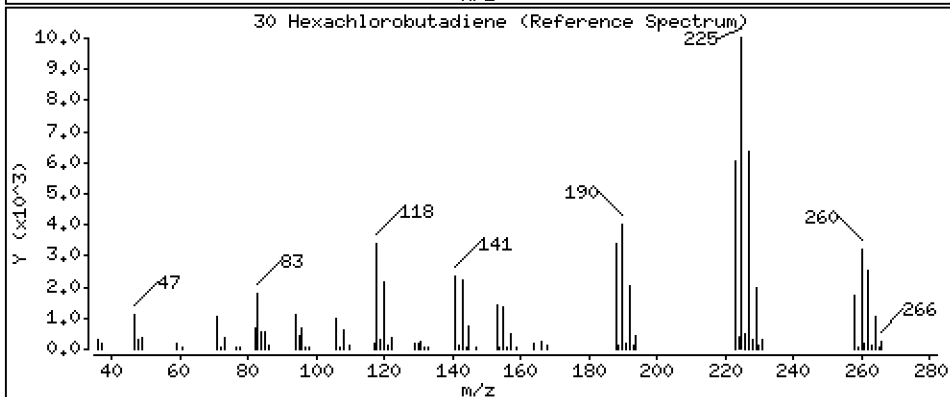
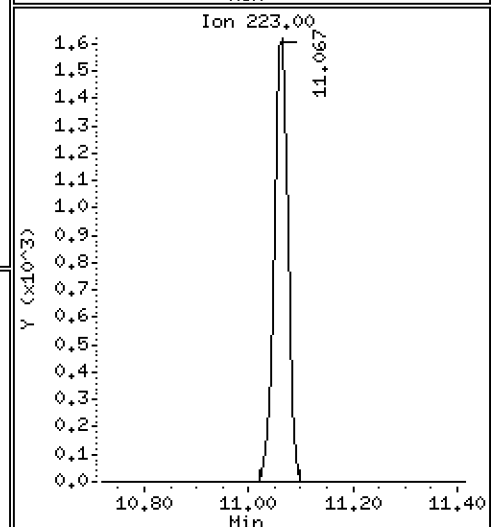
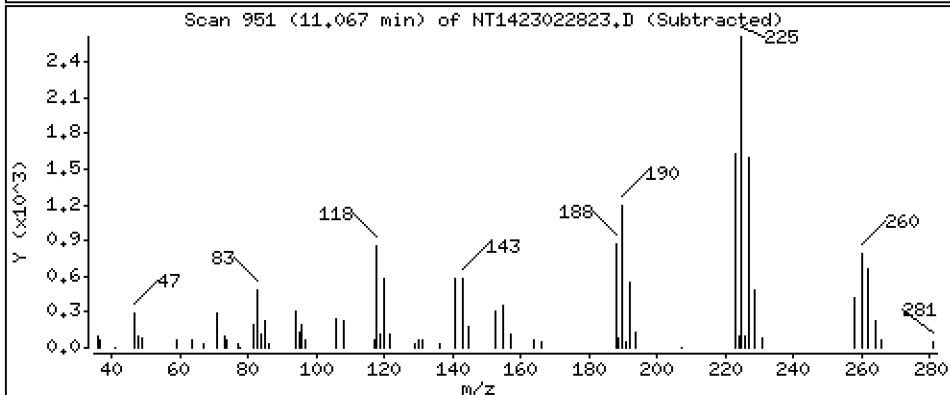
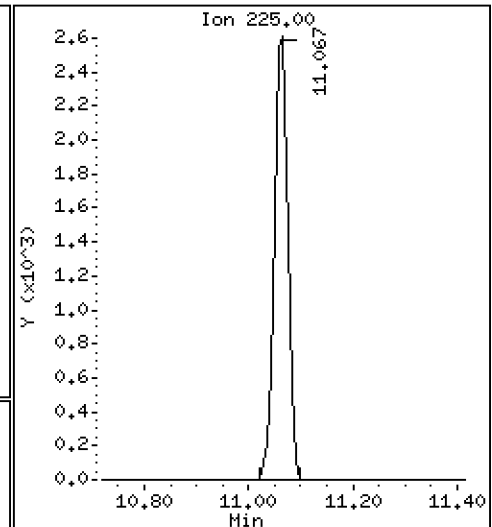
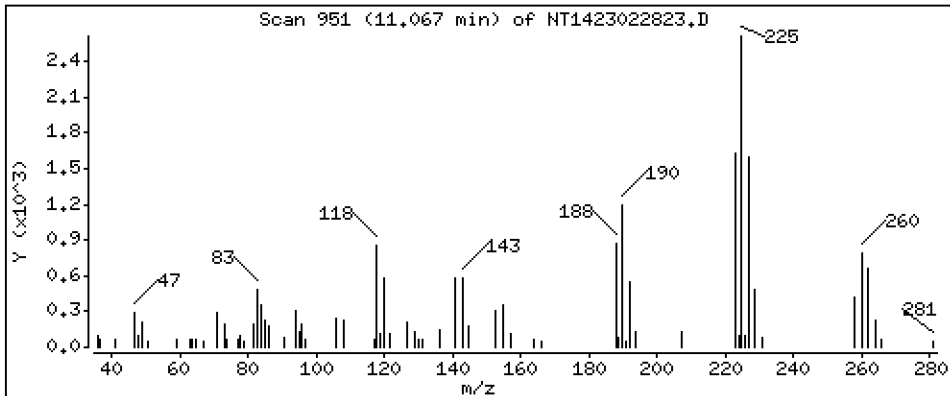
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,1874 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

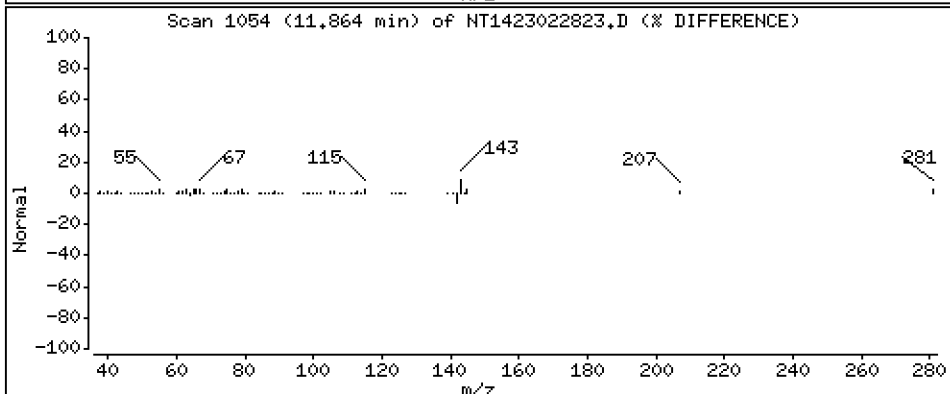
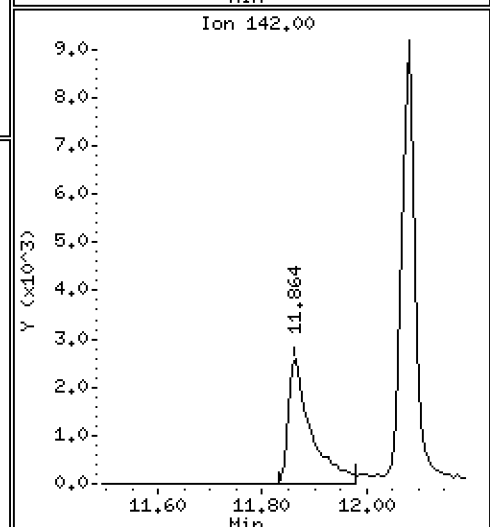
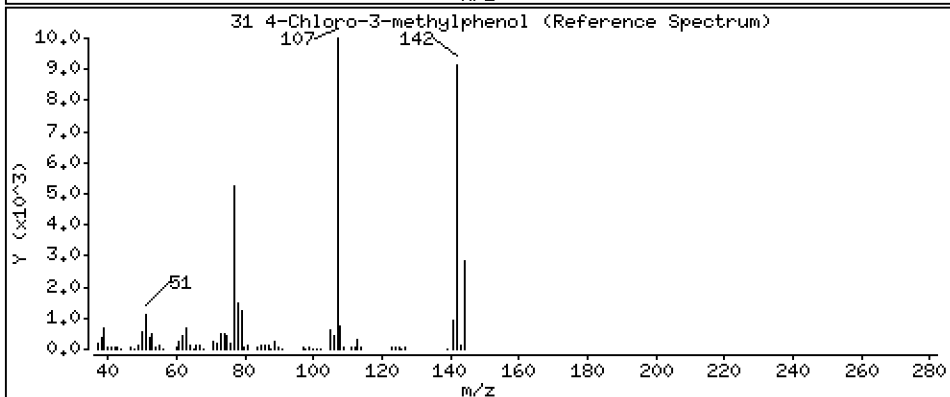
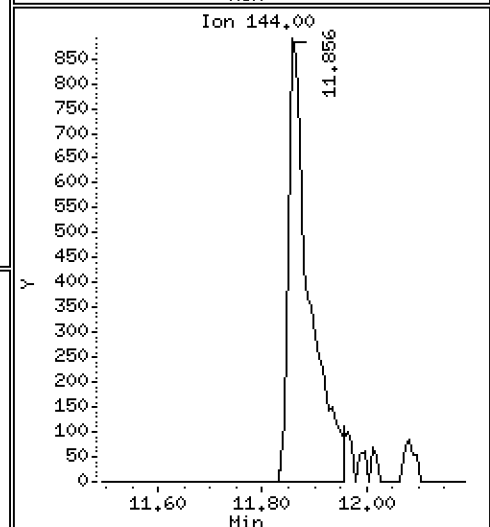
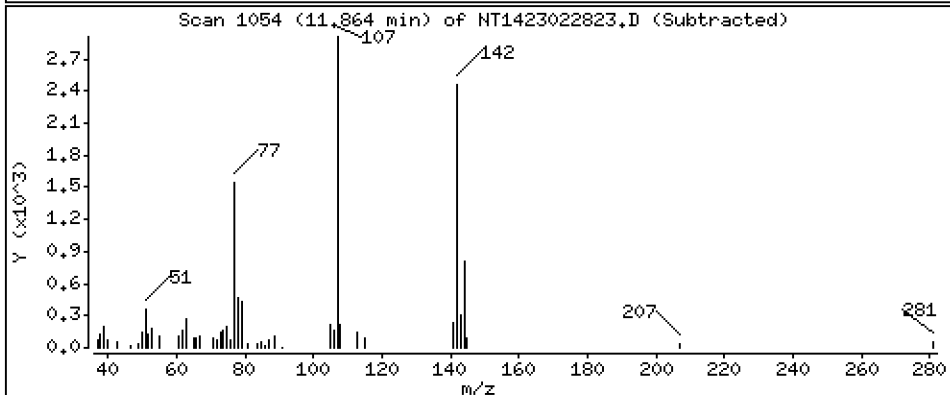
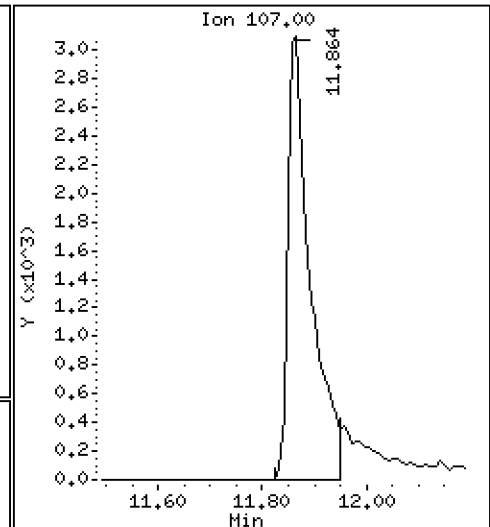
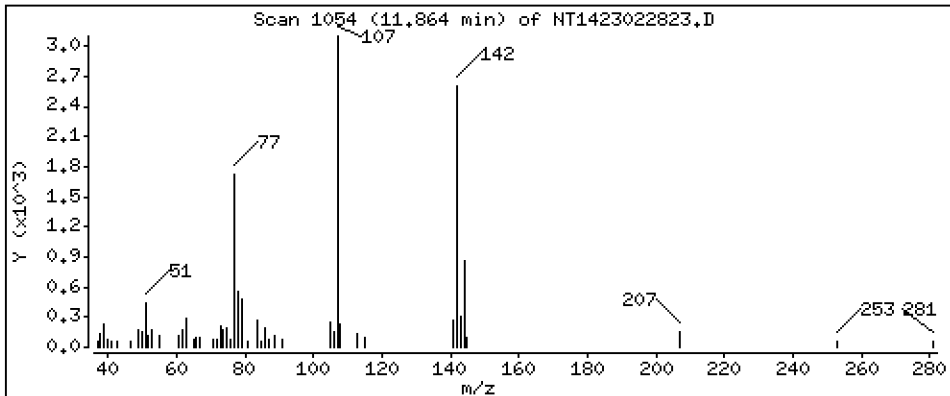
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 0.3044 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

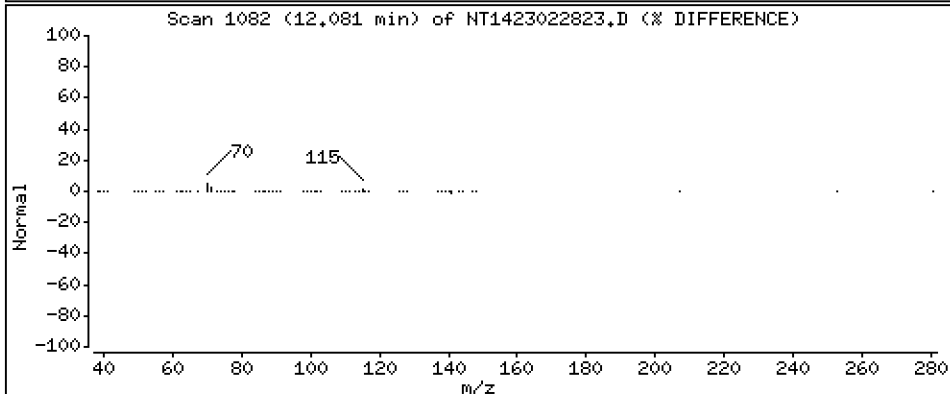
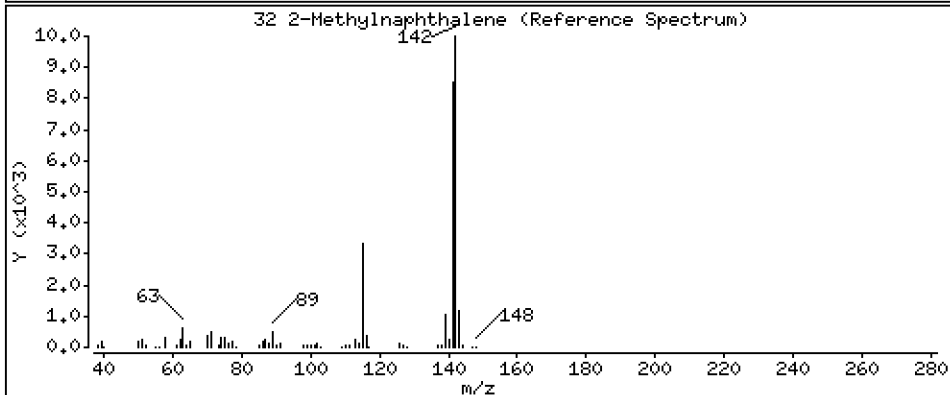
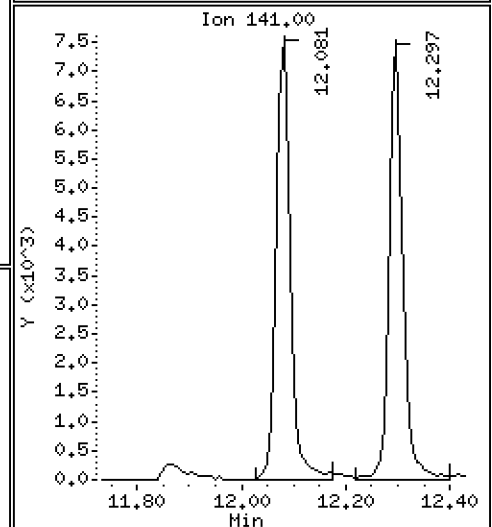
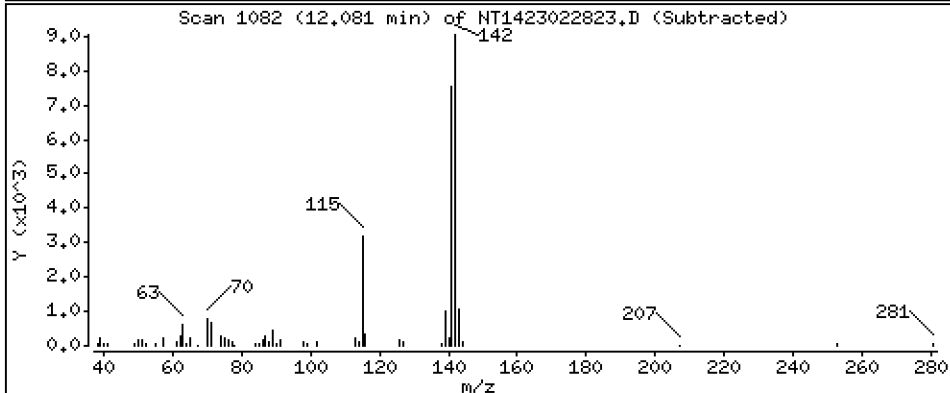
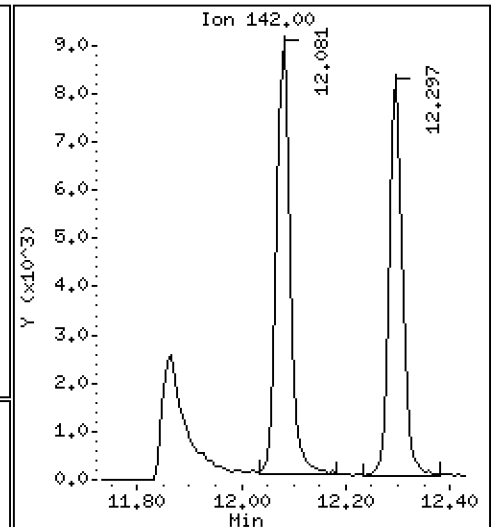
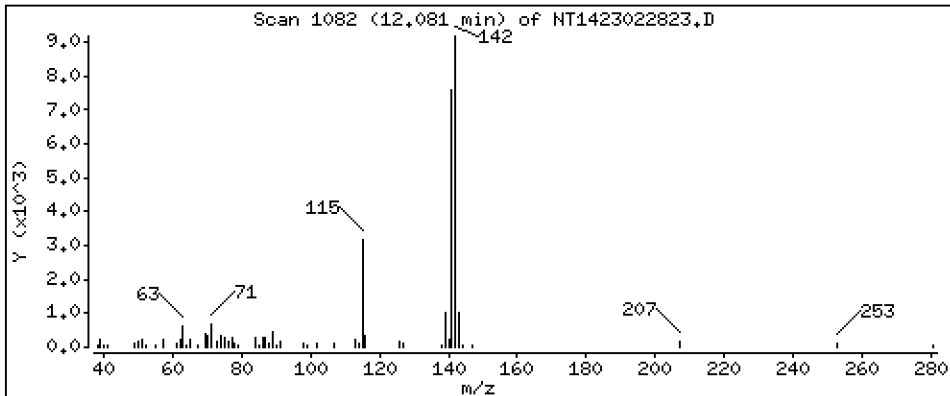
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1941 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

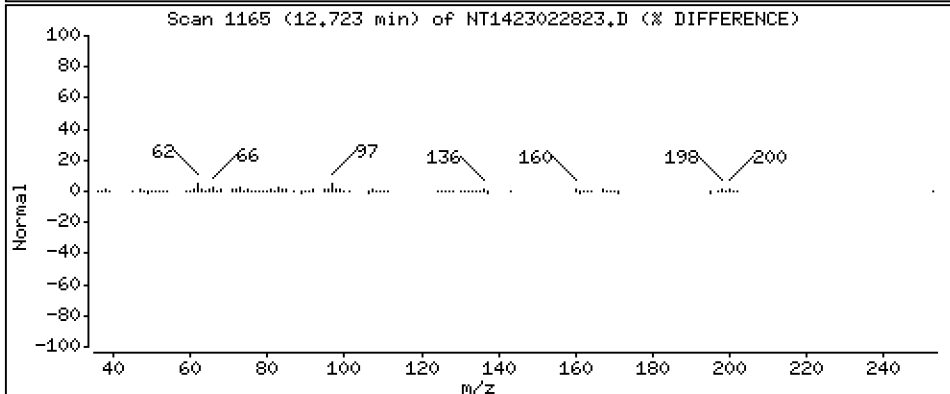
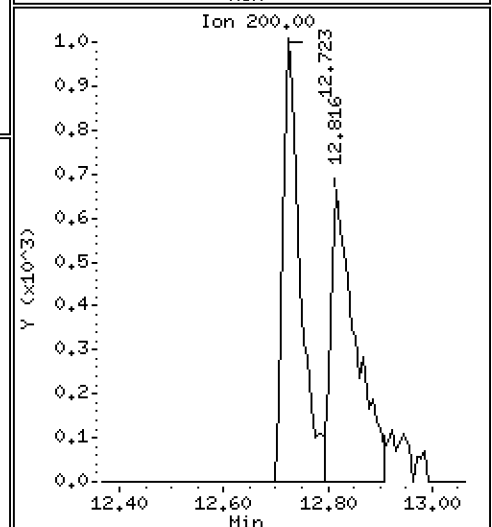
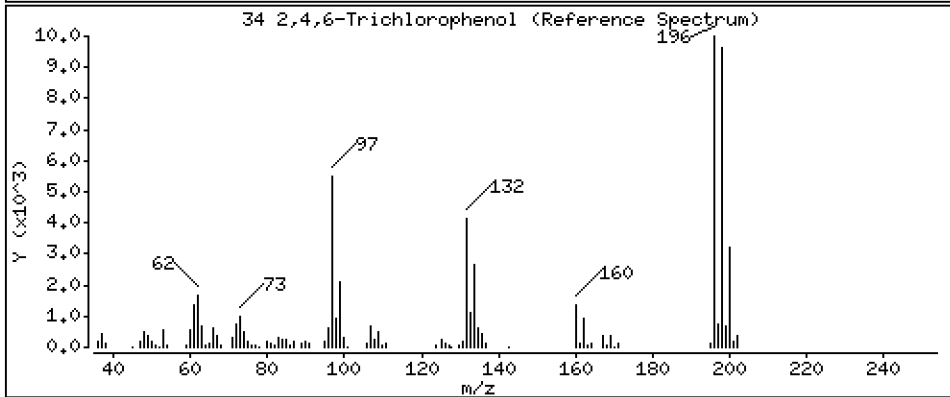
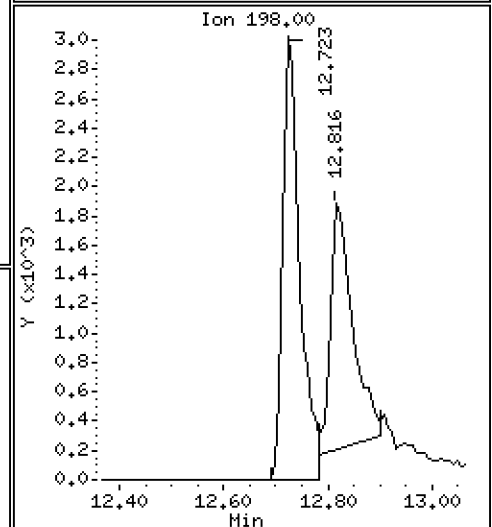
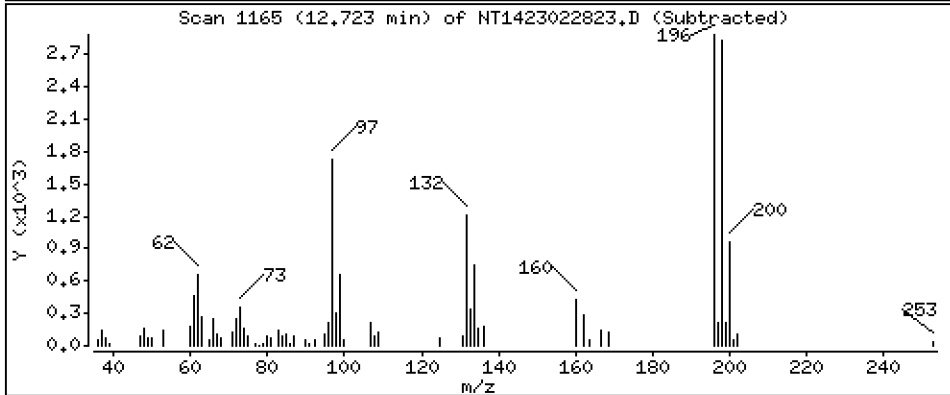
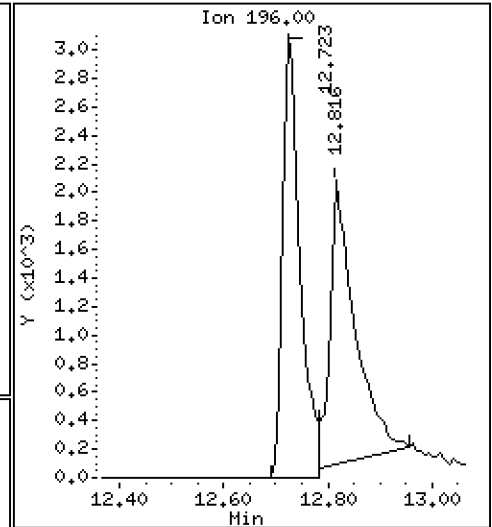
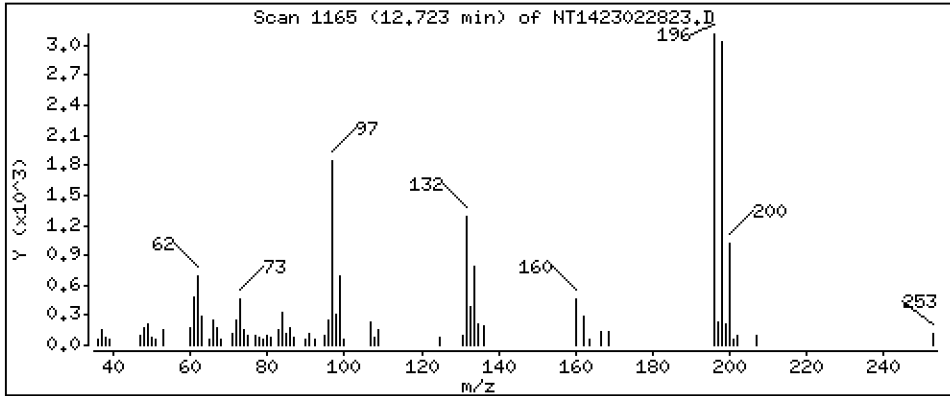
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

34 2,4,6-Trichlorophenol

Concentration: 0.3126 ug/mL





Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

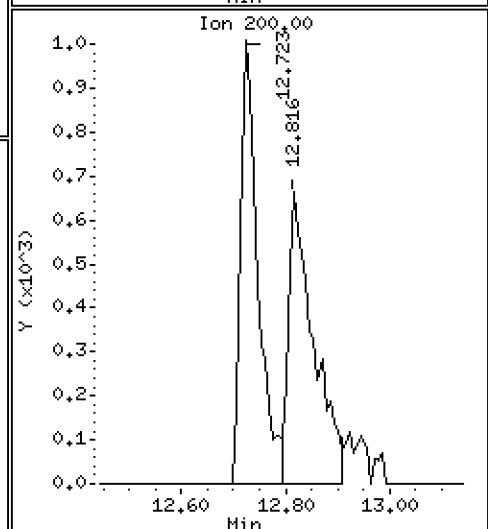
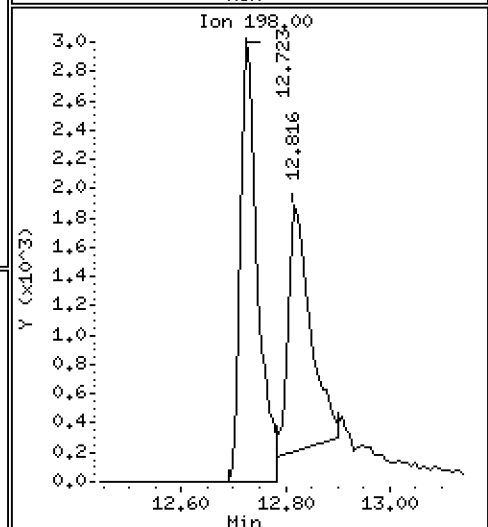
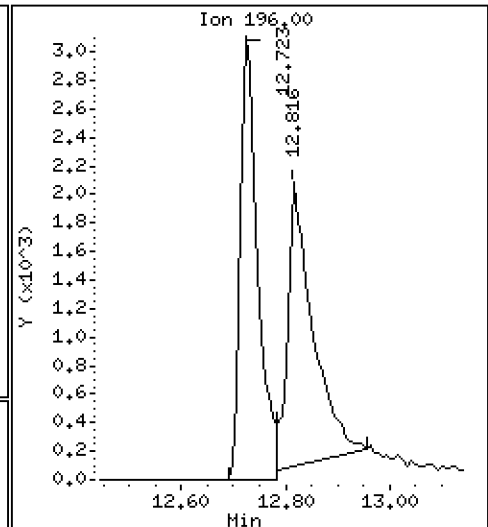
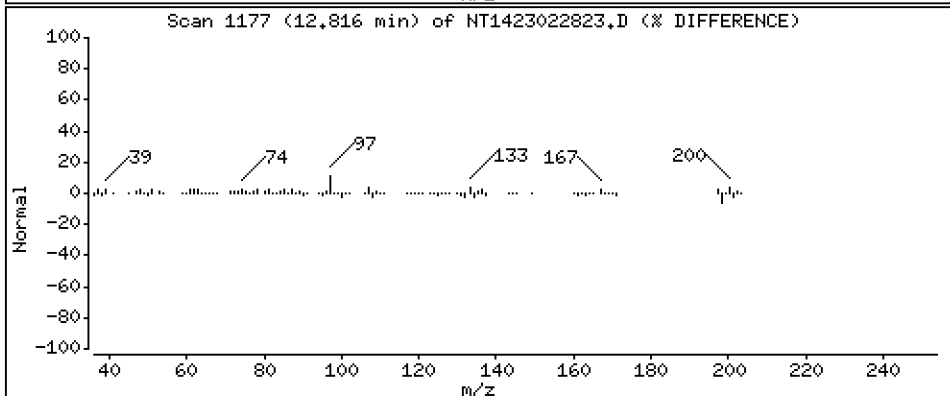
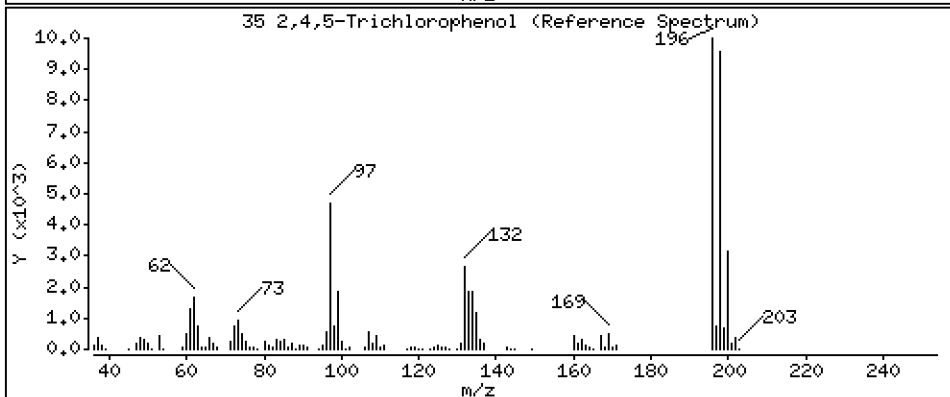
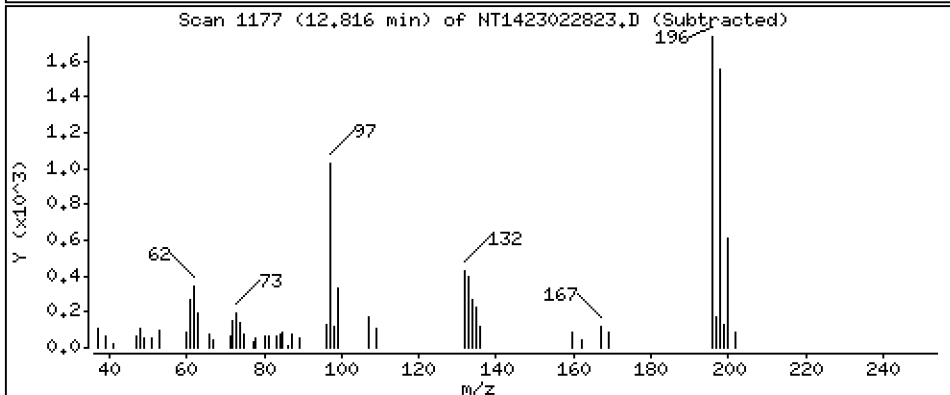
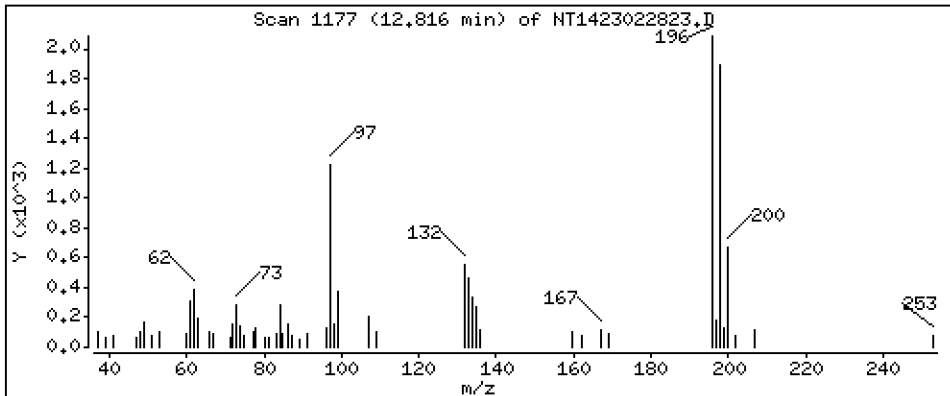
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,2764 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

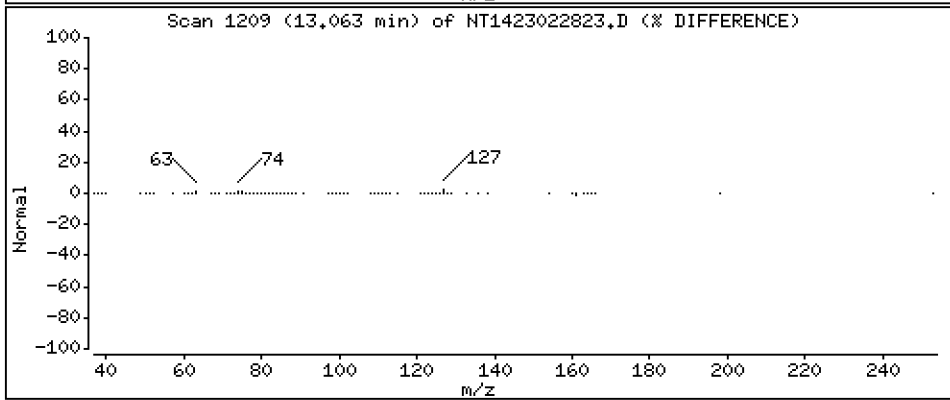
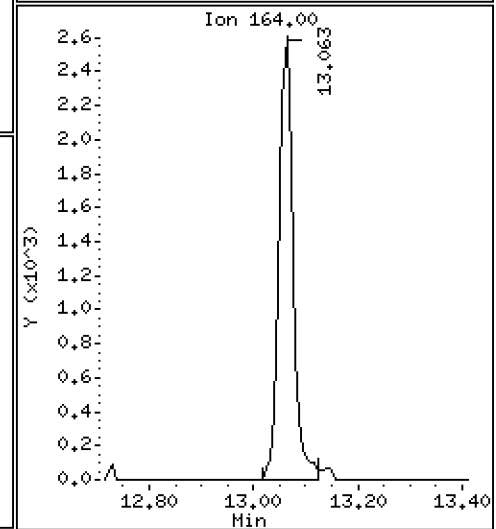
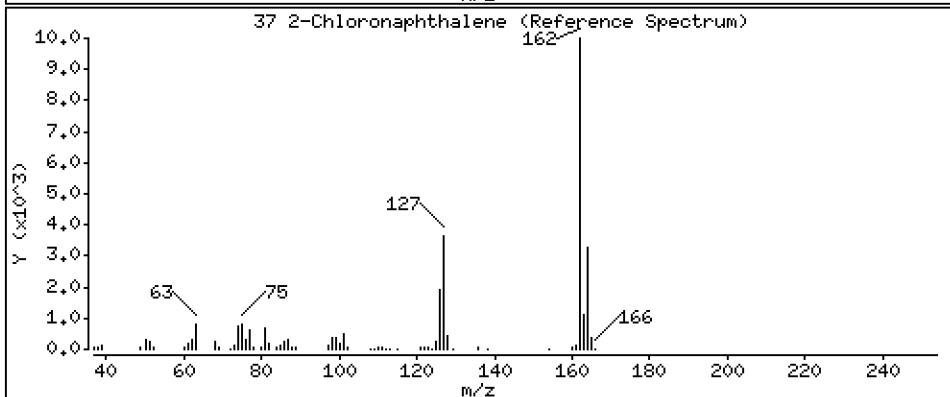
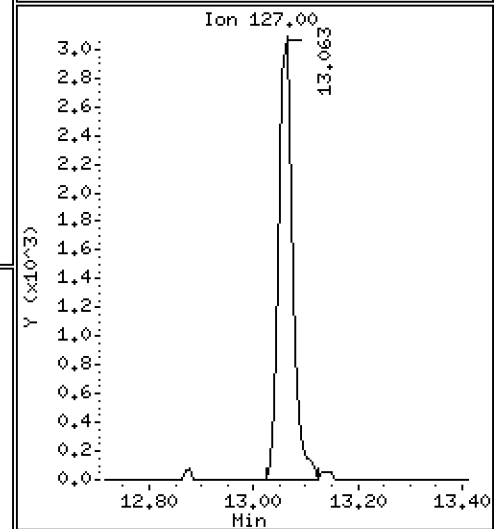
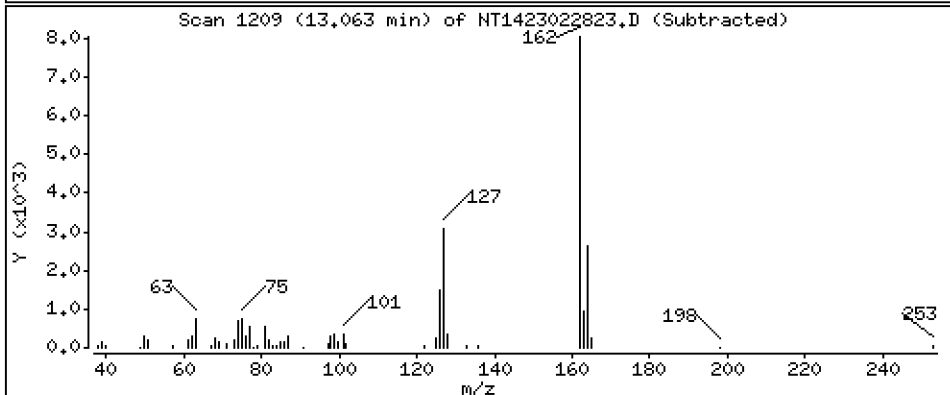
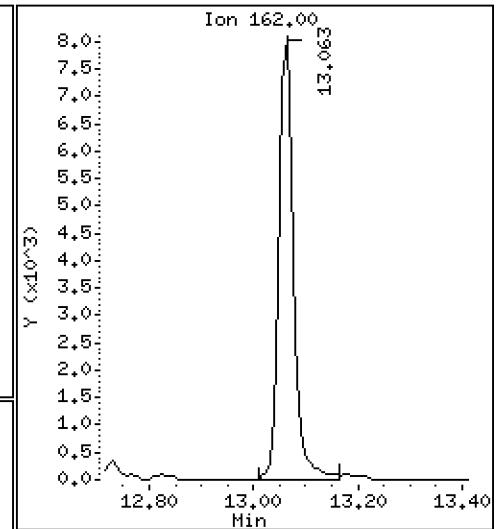
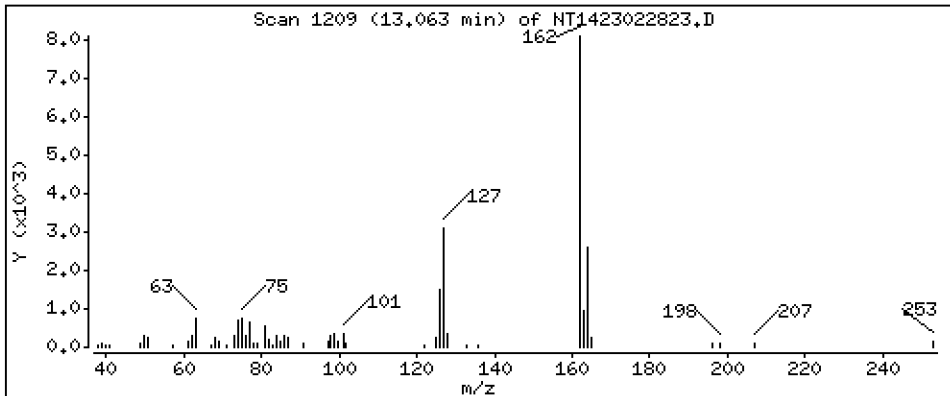
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,2077 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

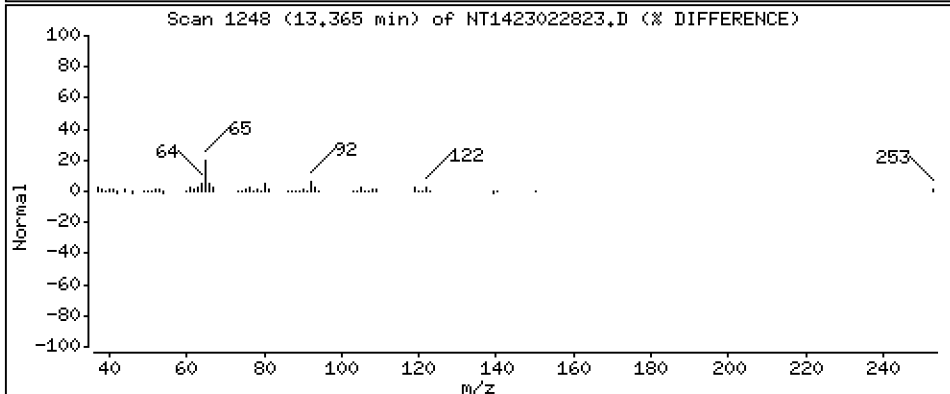
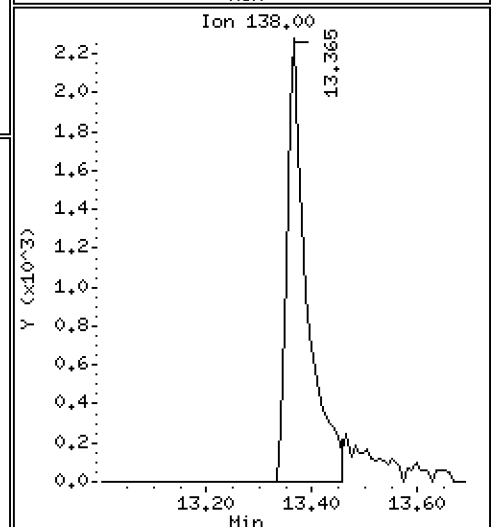
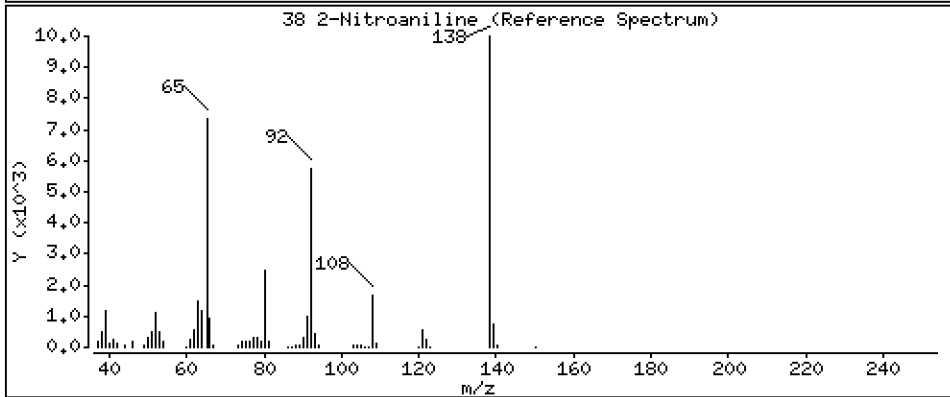
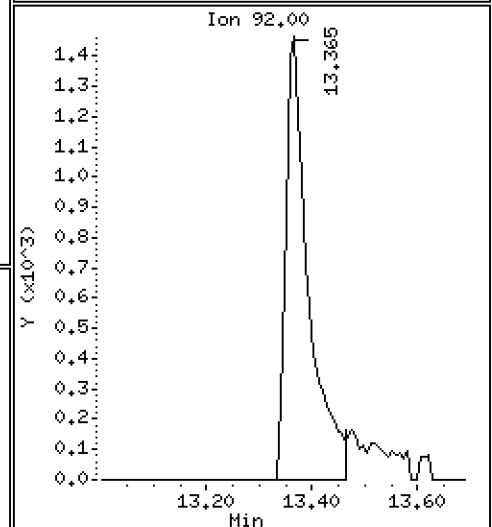
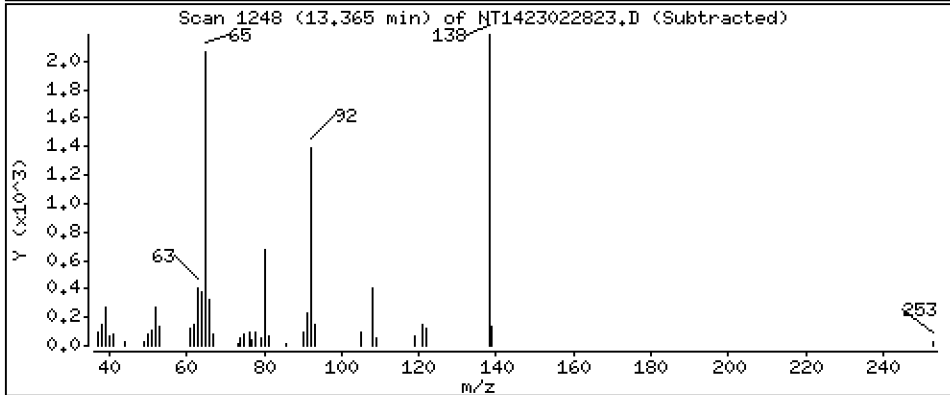
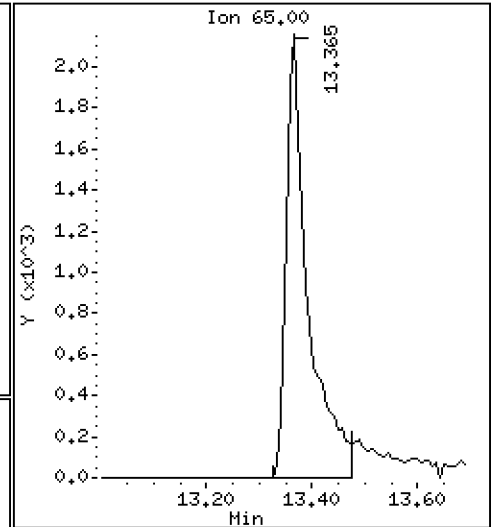
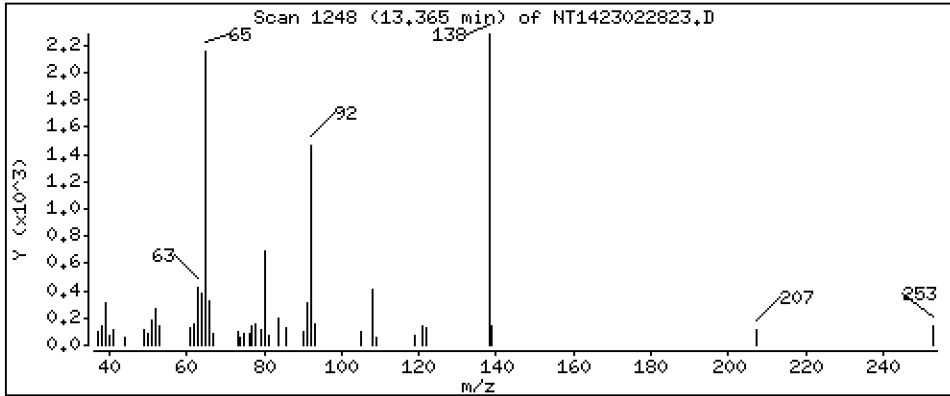
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,3328 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

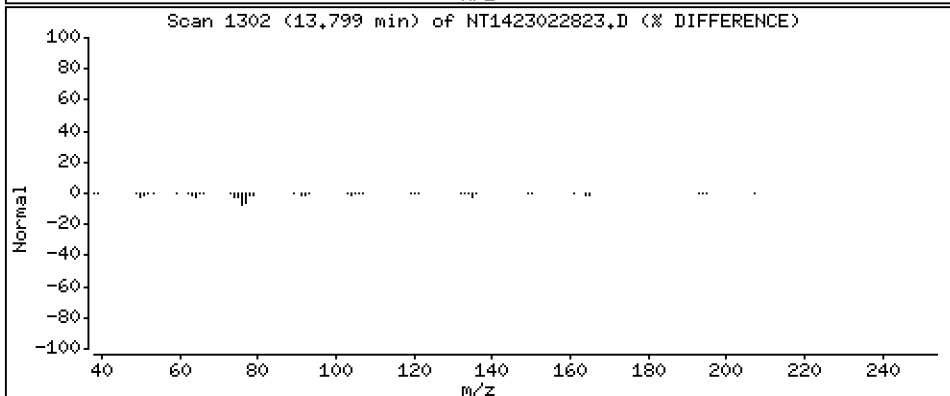
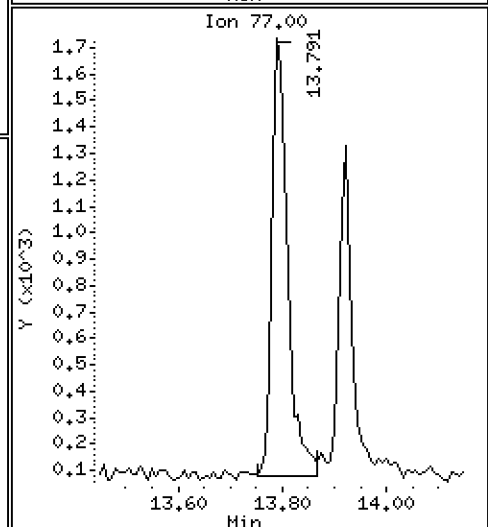
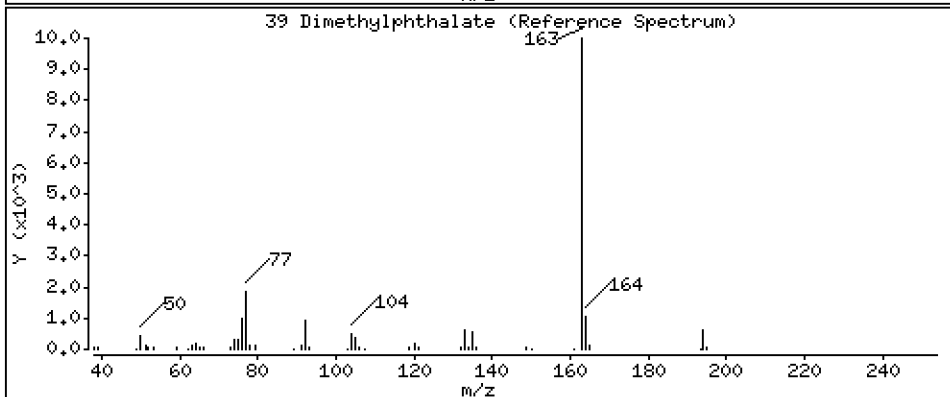
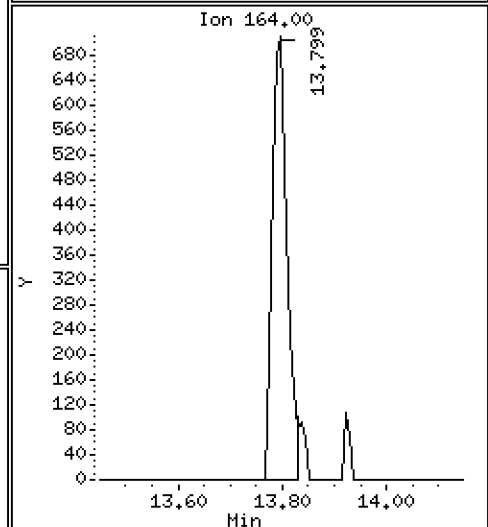
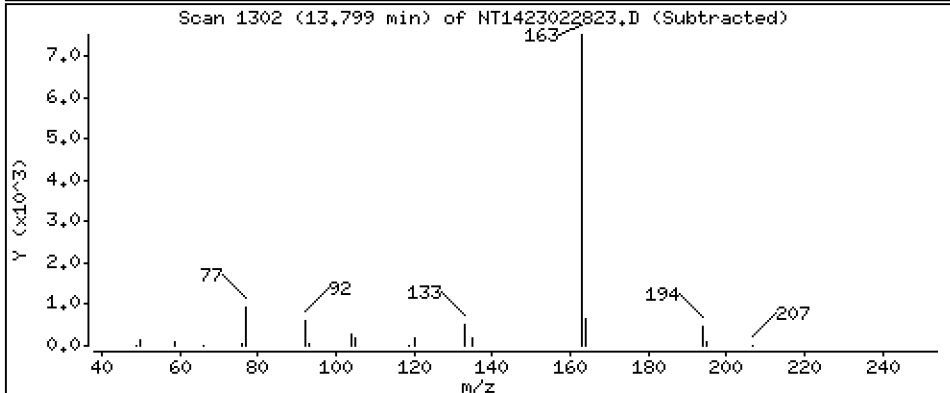
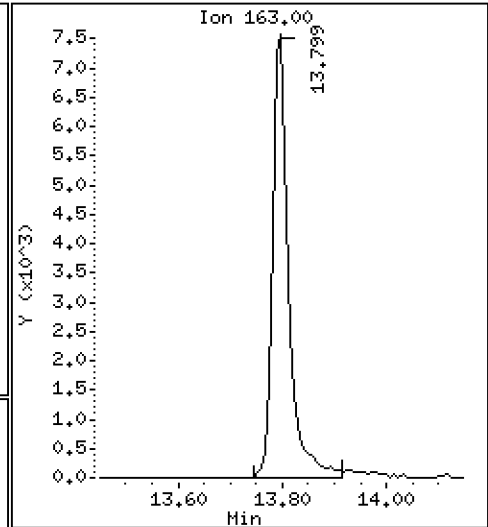
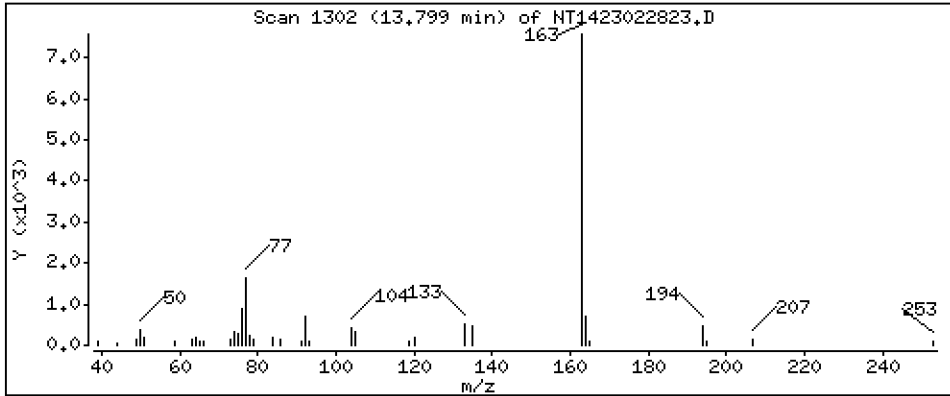
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2127 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

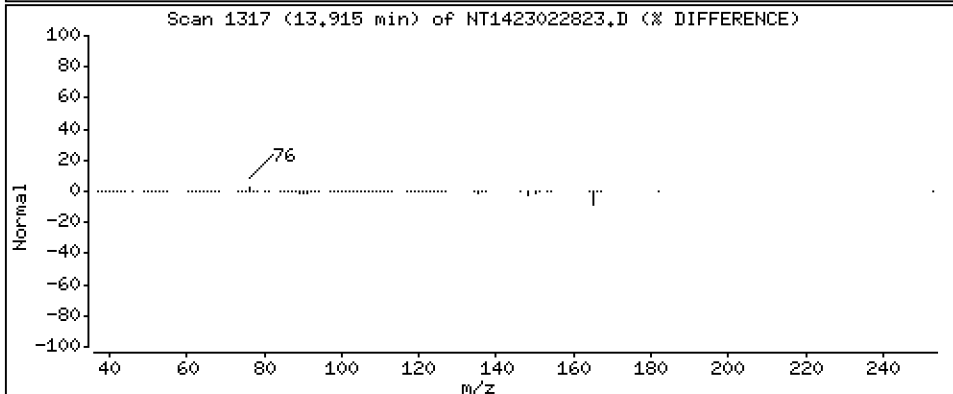
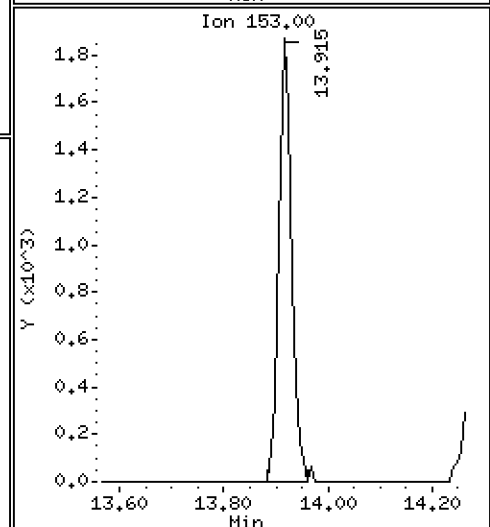
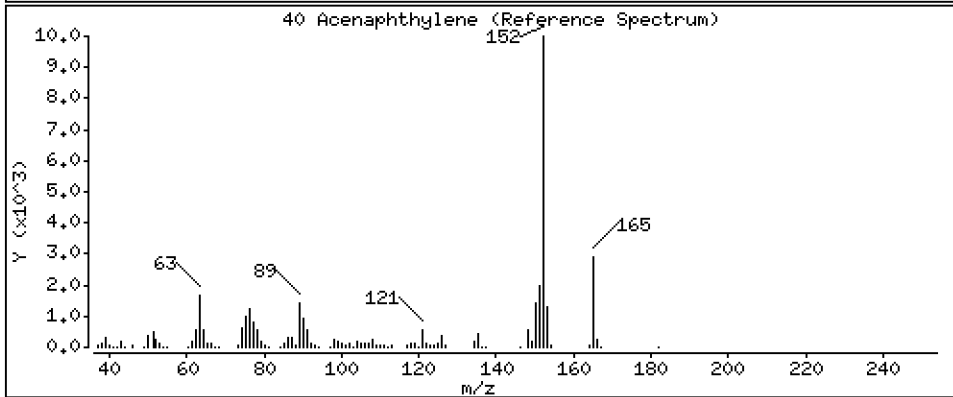
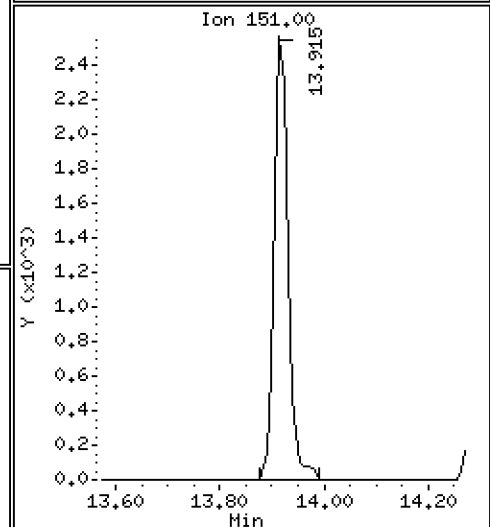
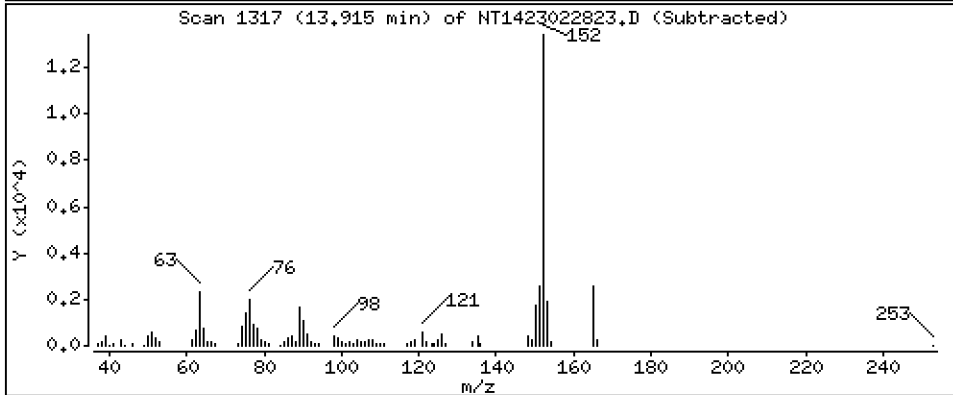
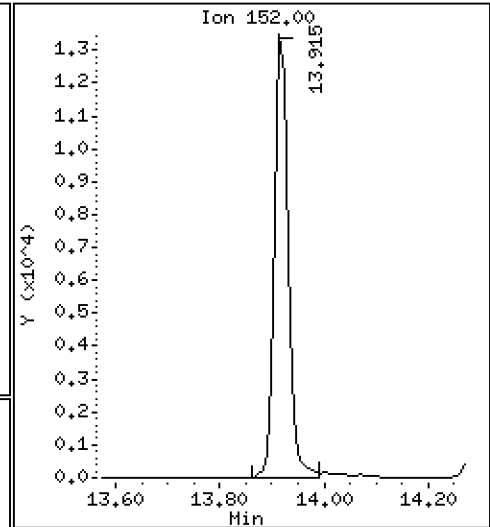
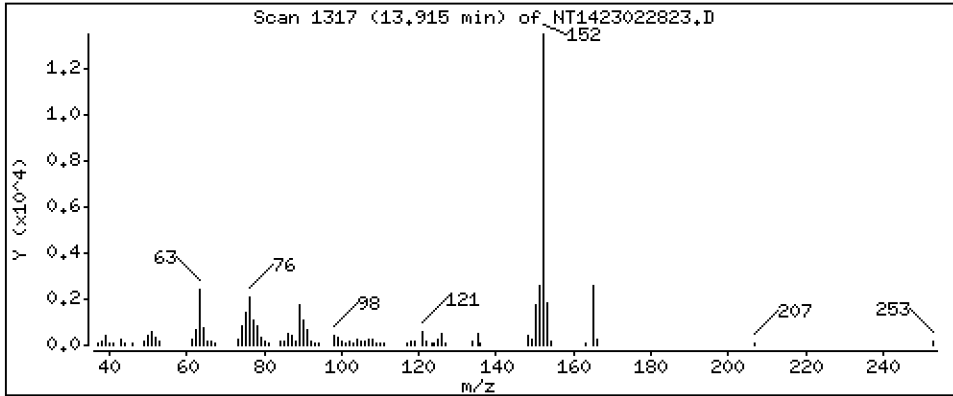
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2211 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

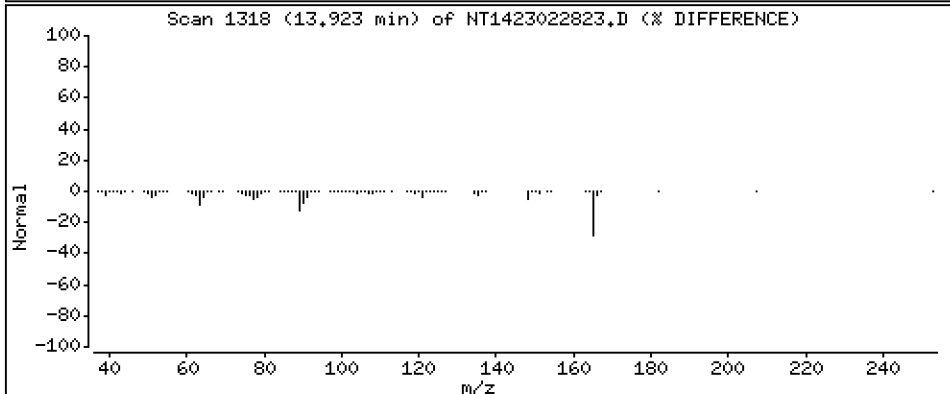
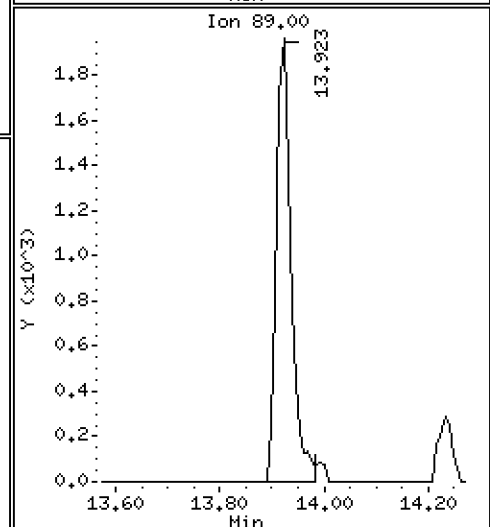
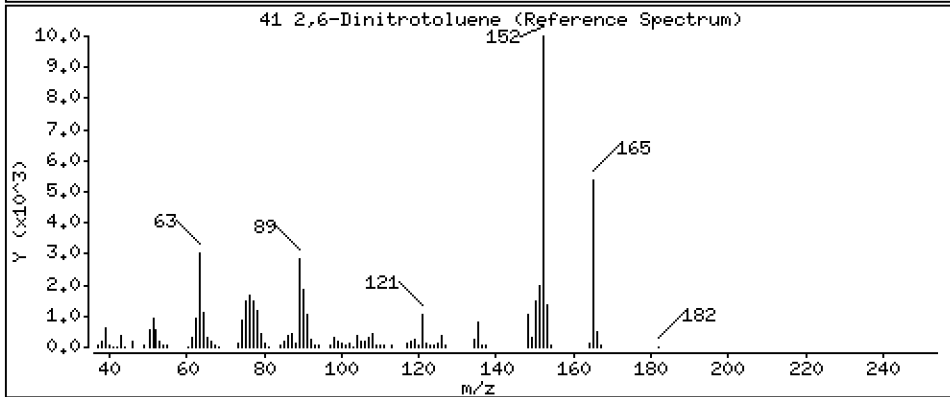
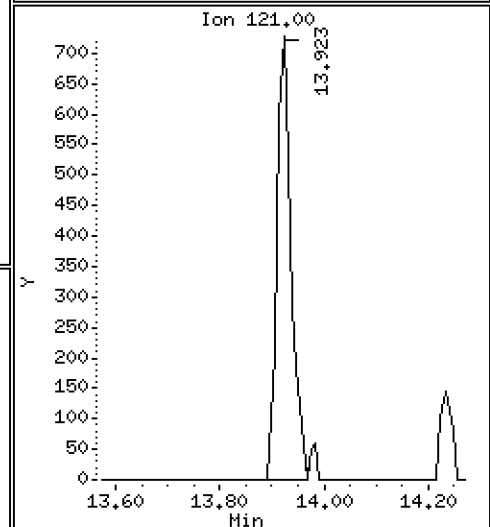
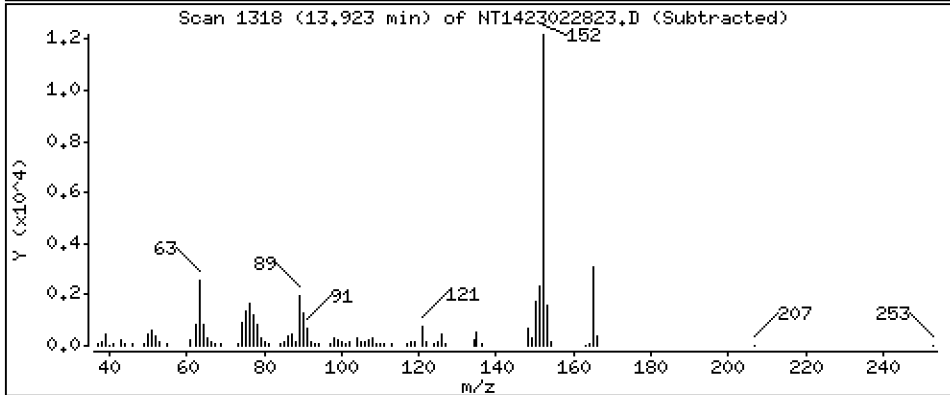
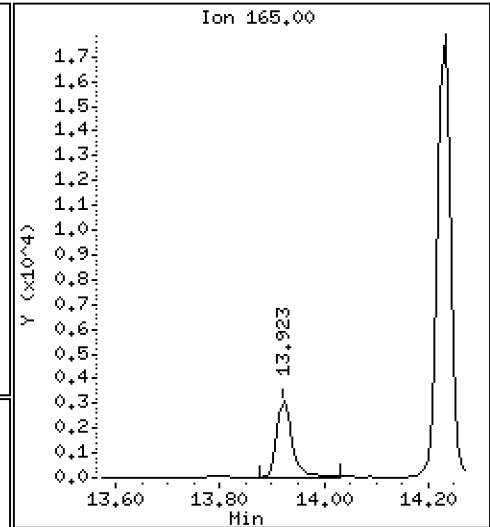
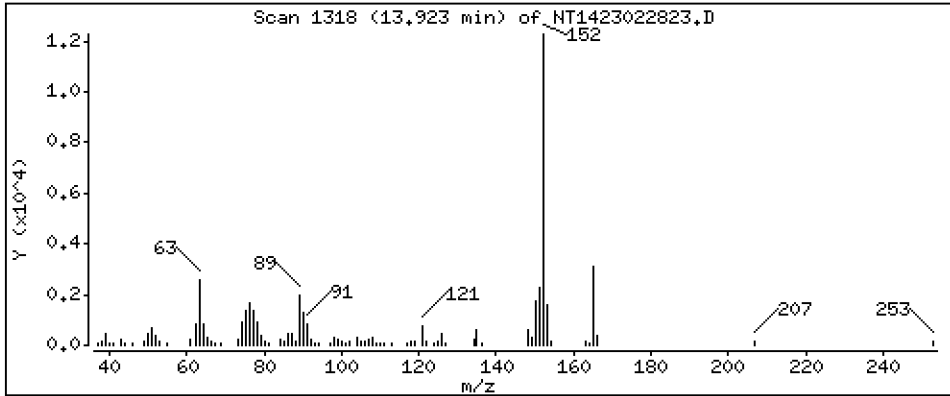
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 0,3722 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

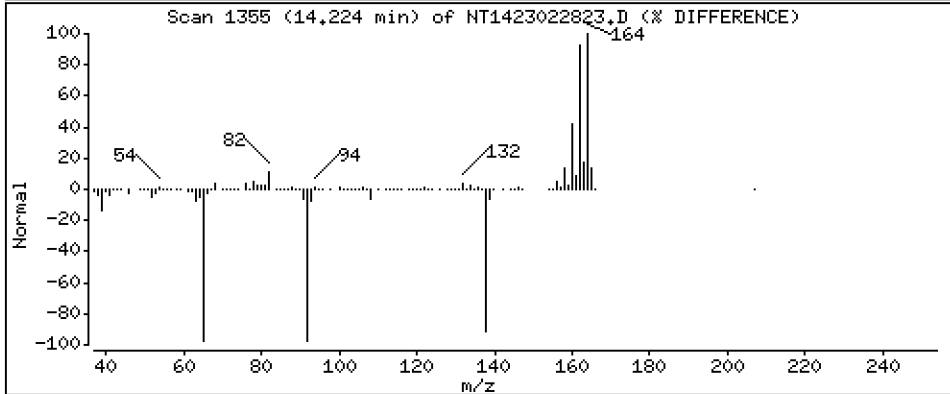
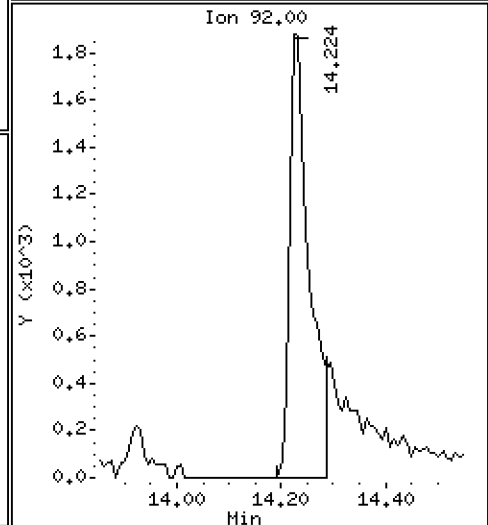
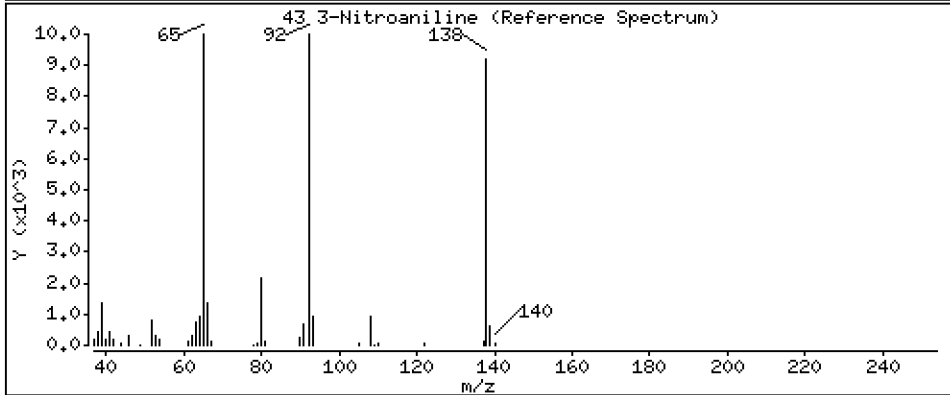
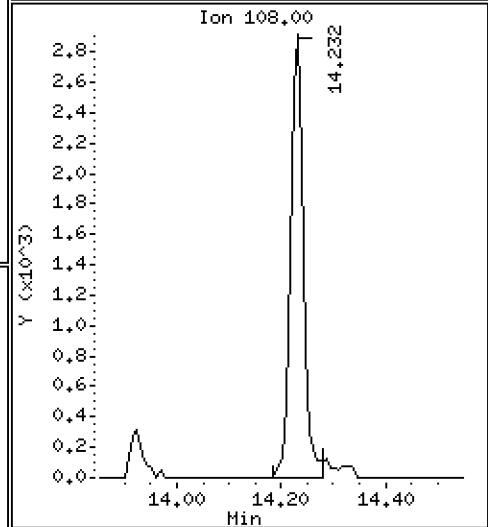
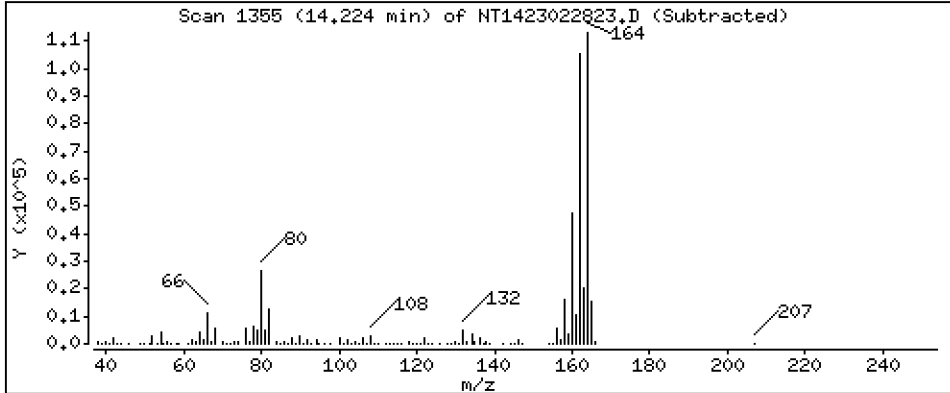
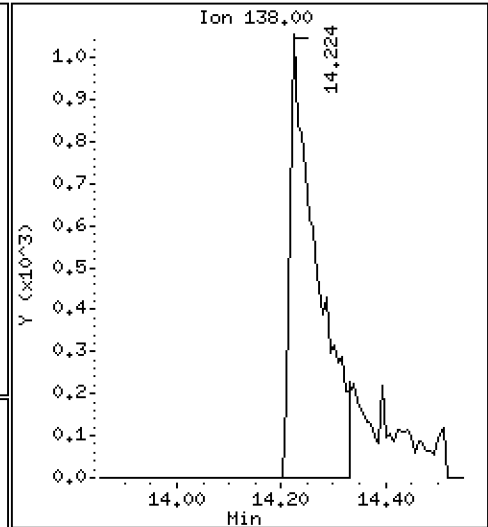
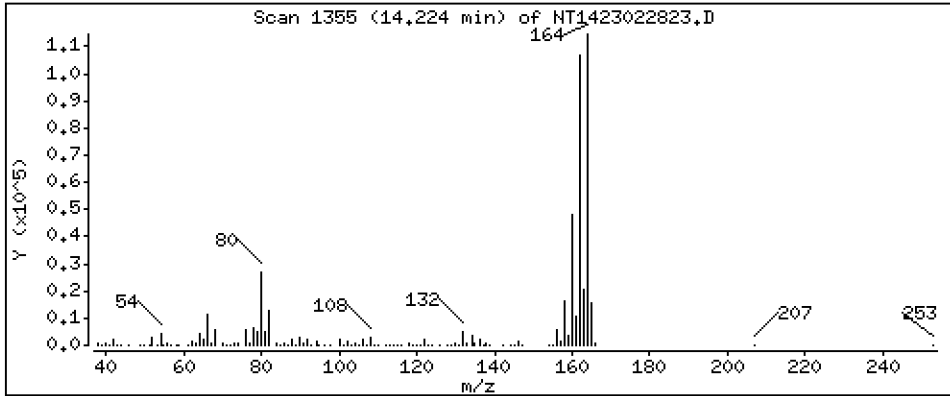
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,2209 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

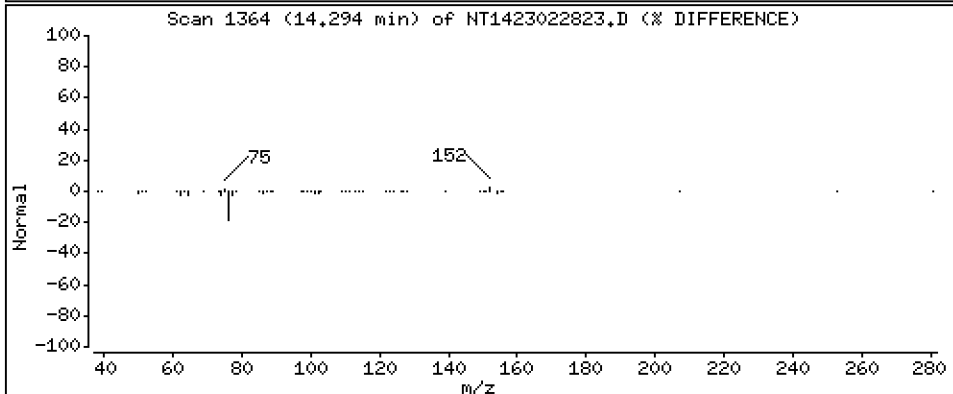
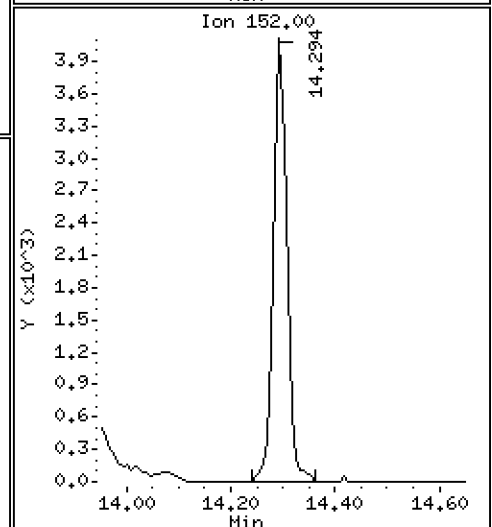
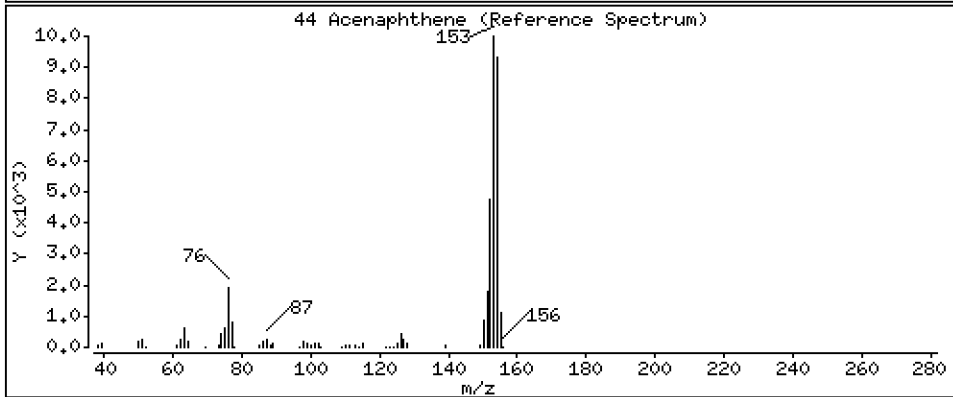
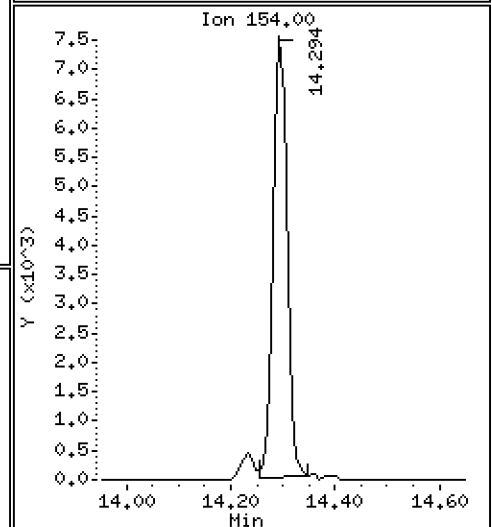
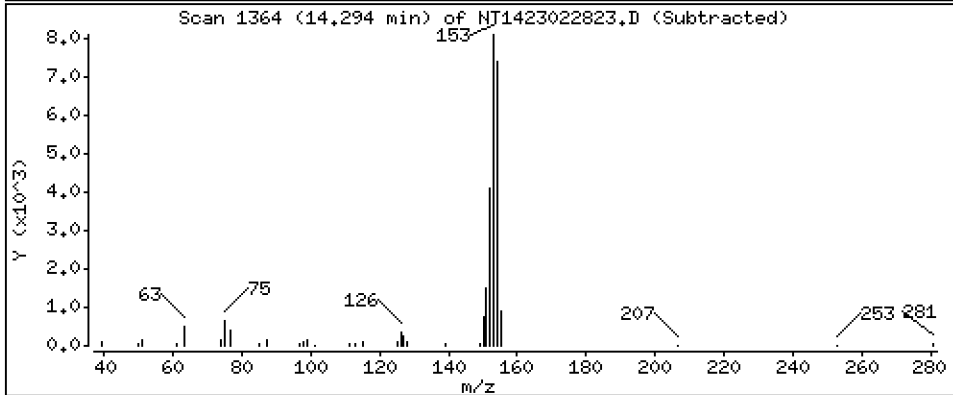
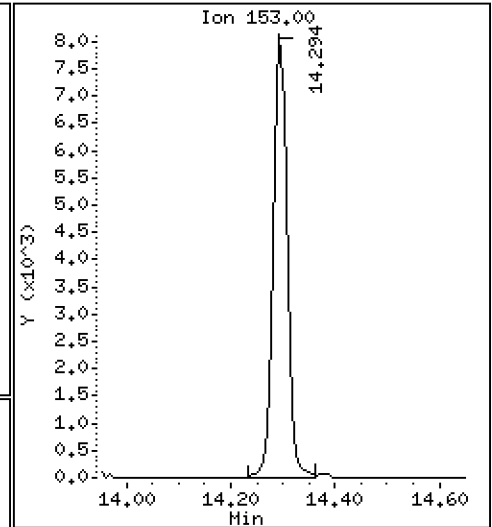
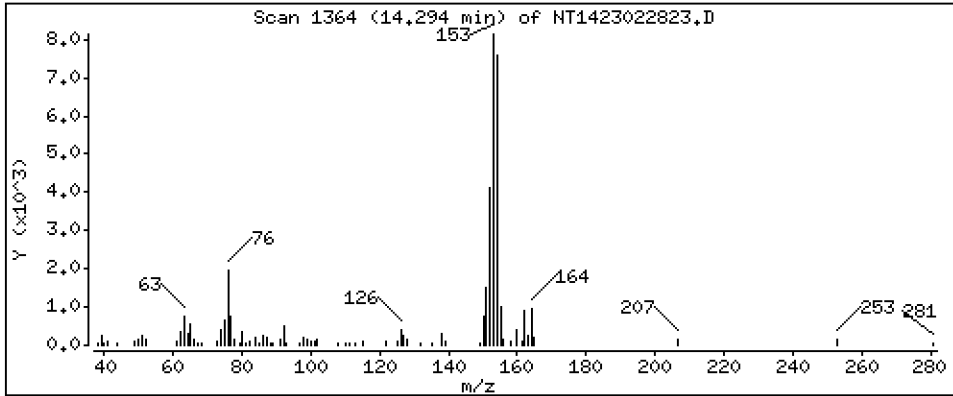
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,2101 ug/mL





Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

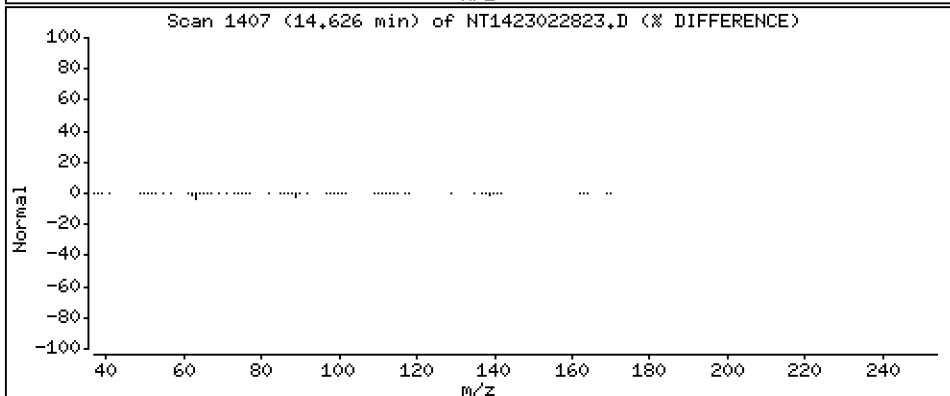
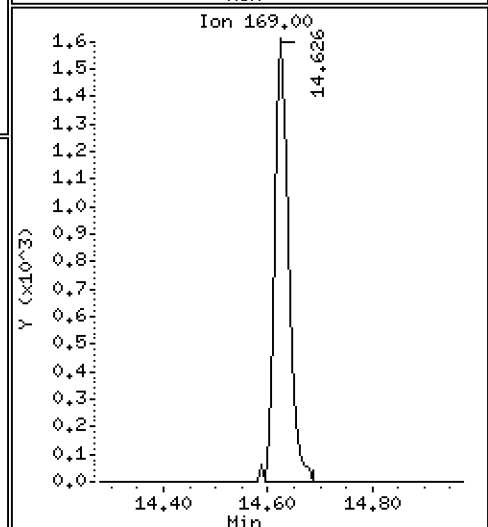
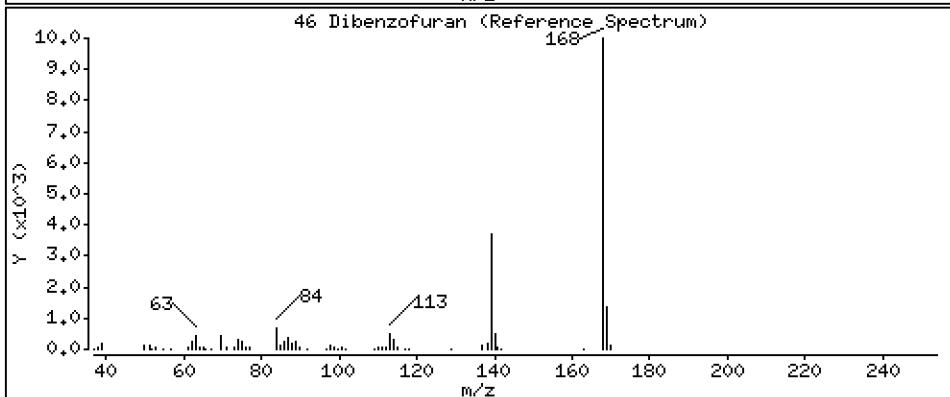
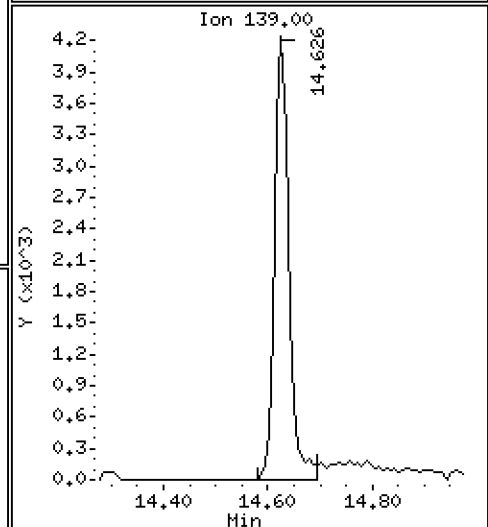
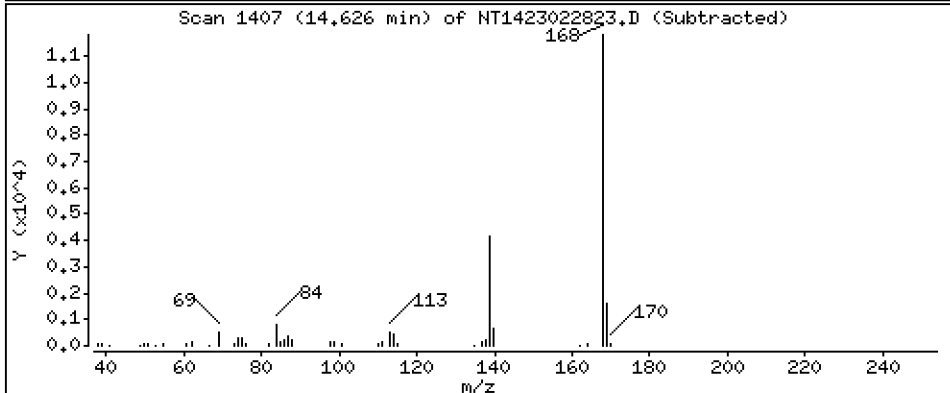
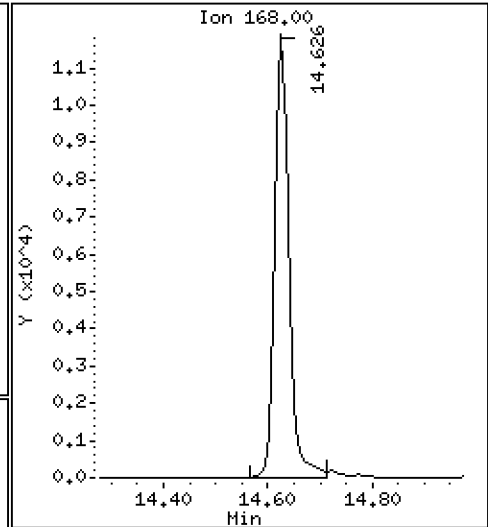
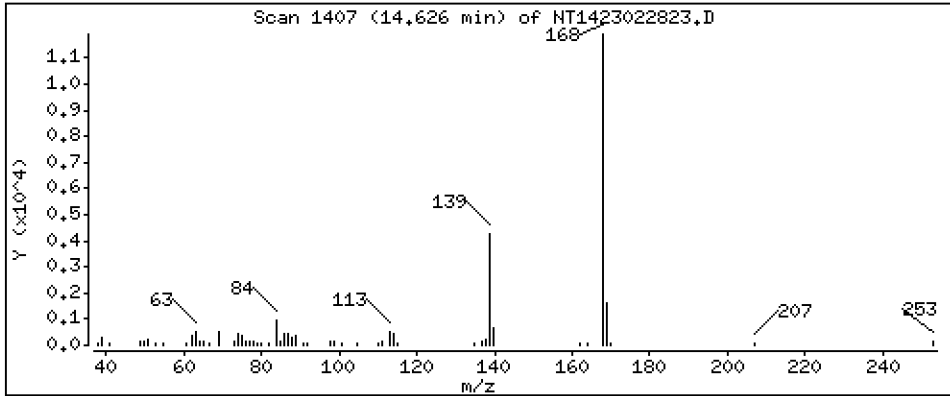
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,1984 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

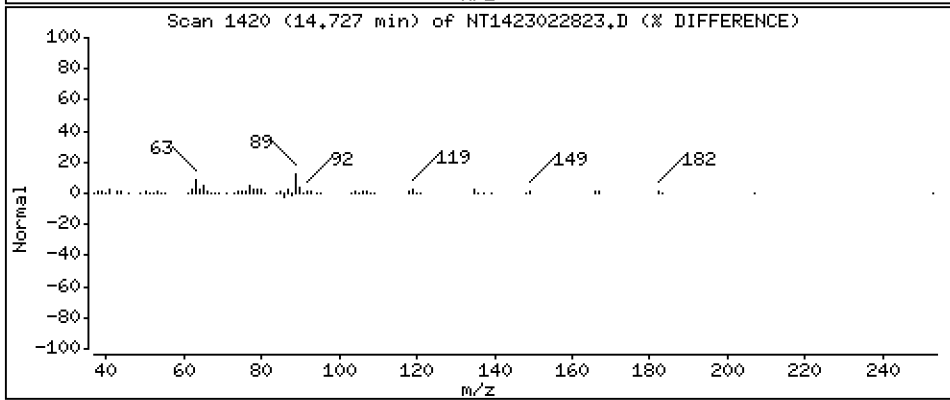
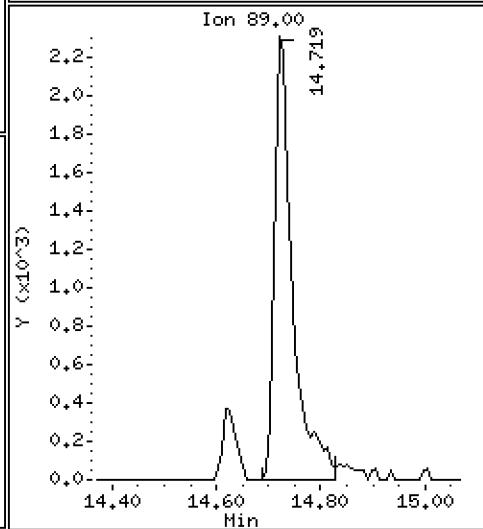
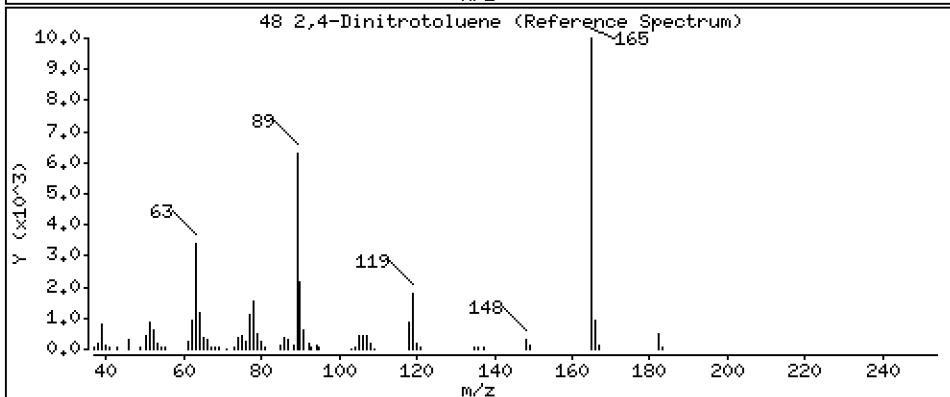
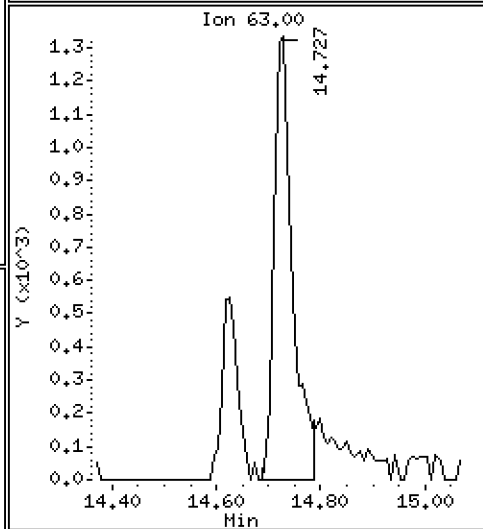
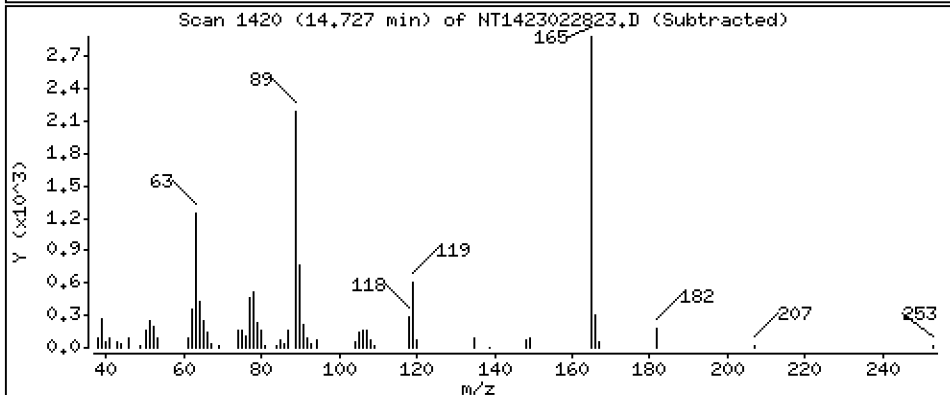
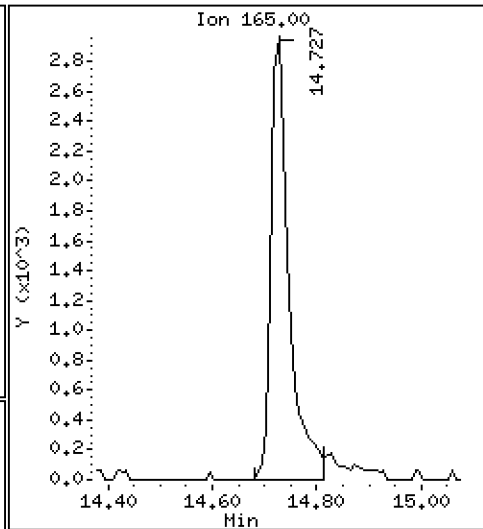
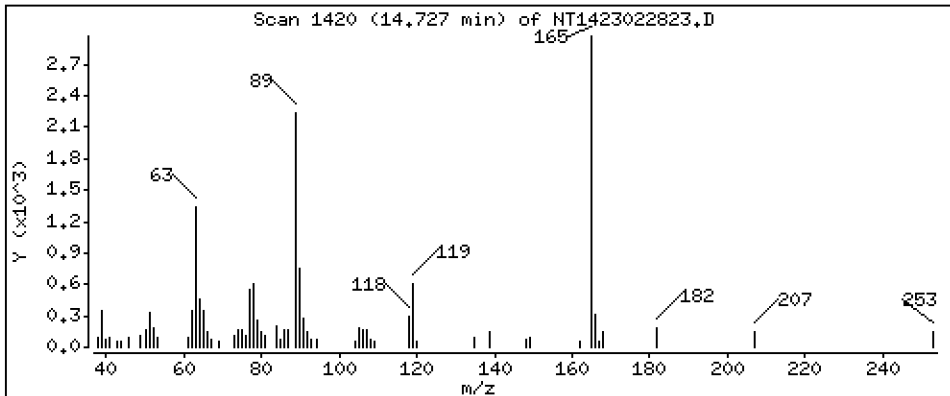
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.2795 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

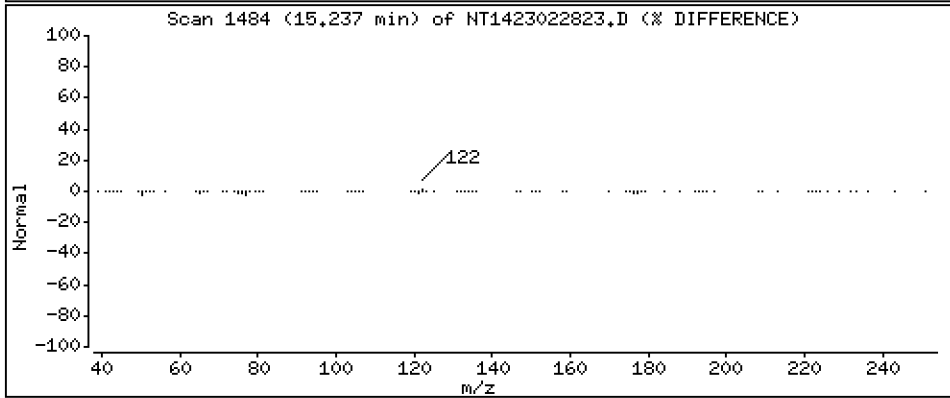
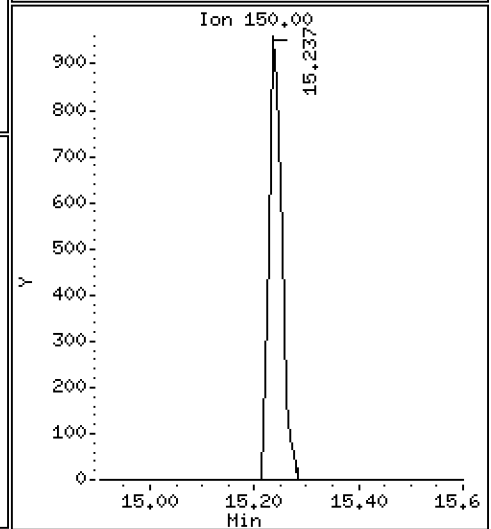
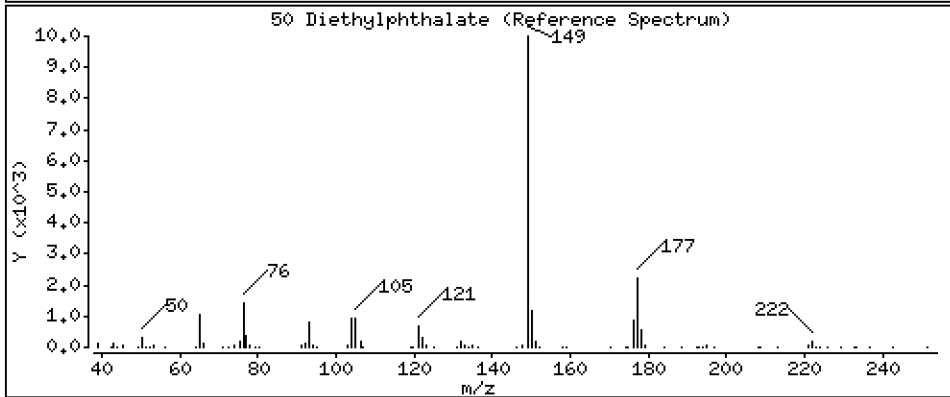
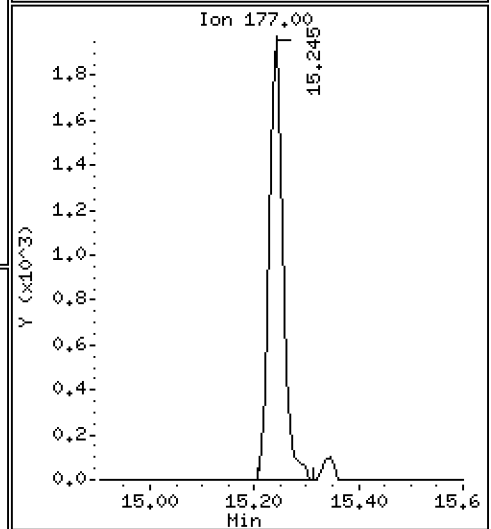
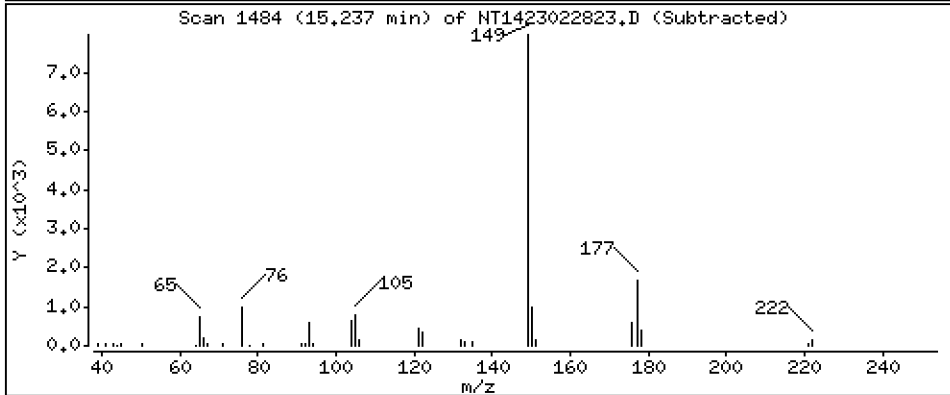
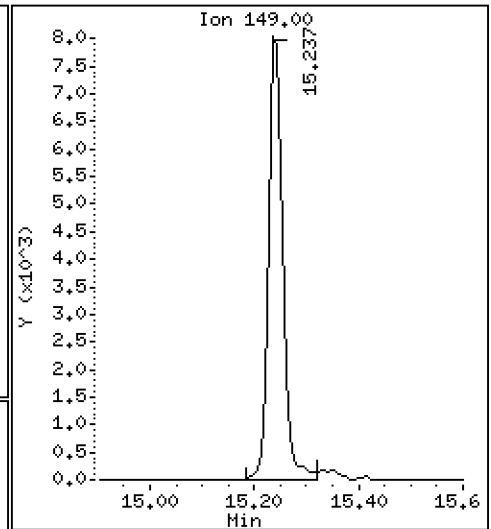
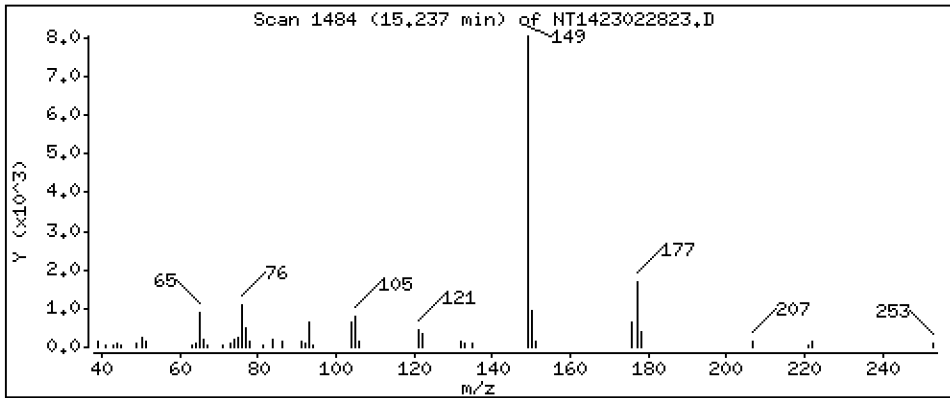
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2149 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

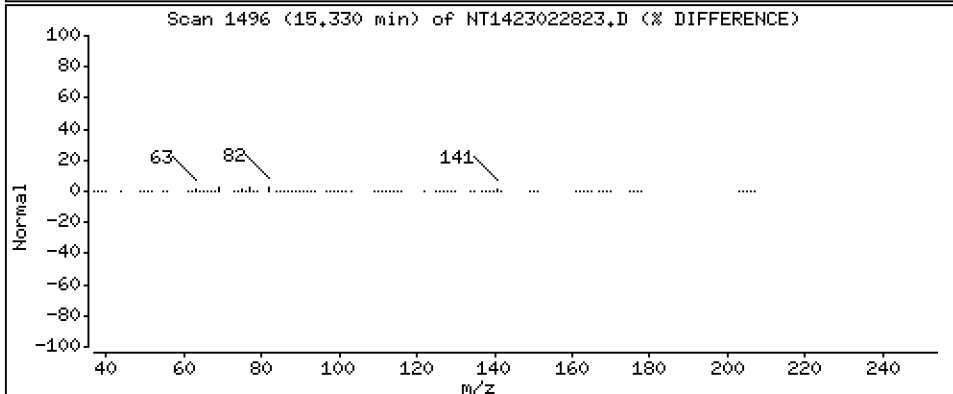
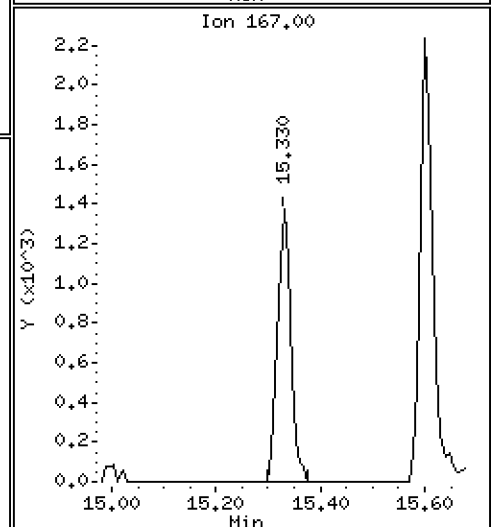
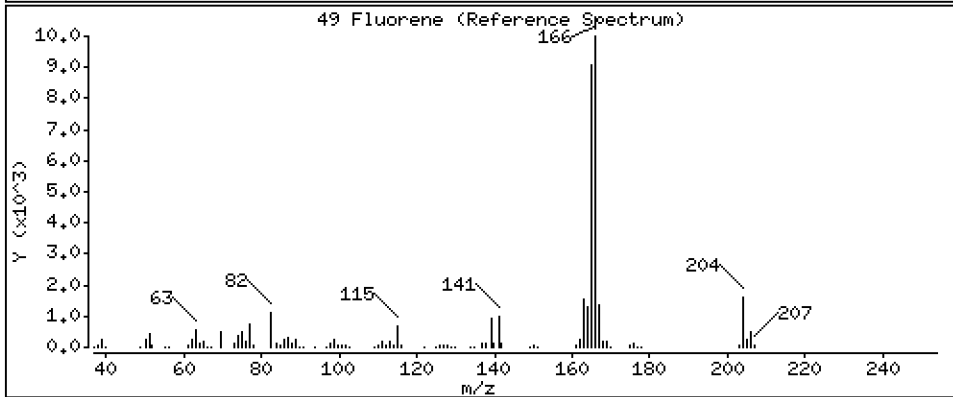
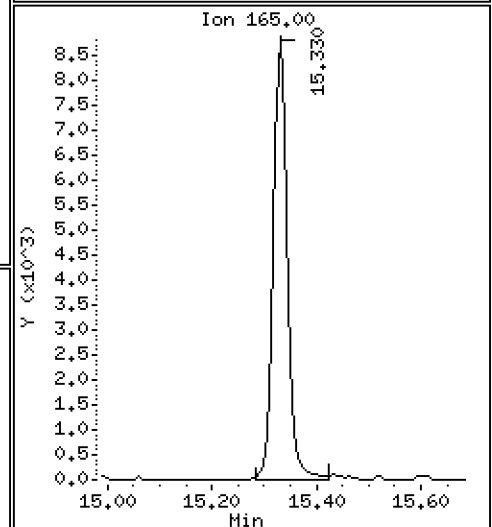
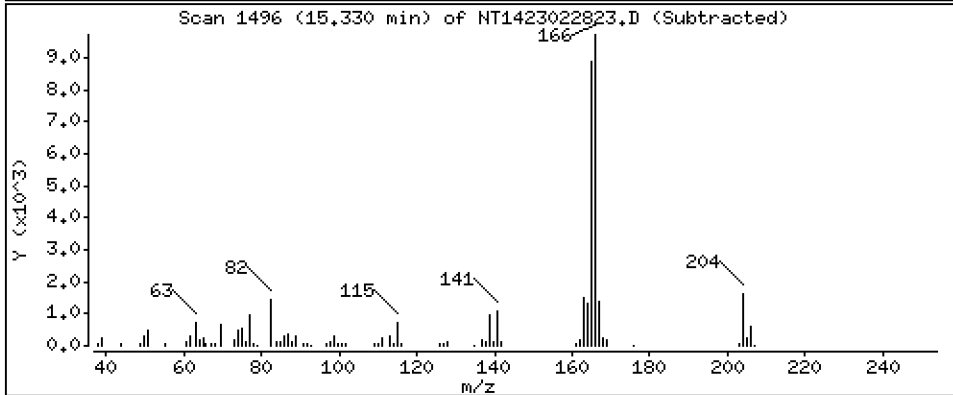
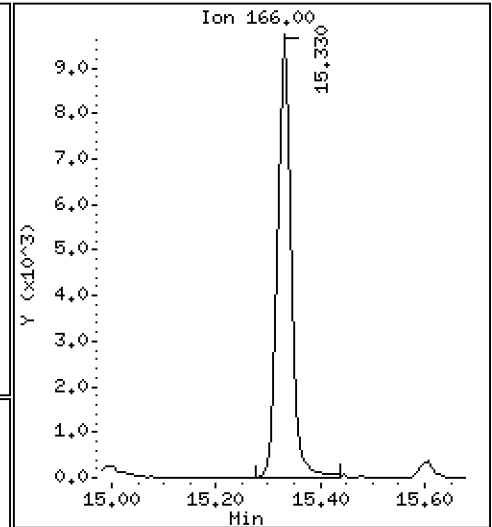
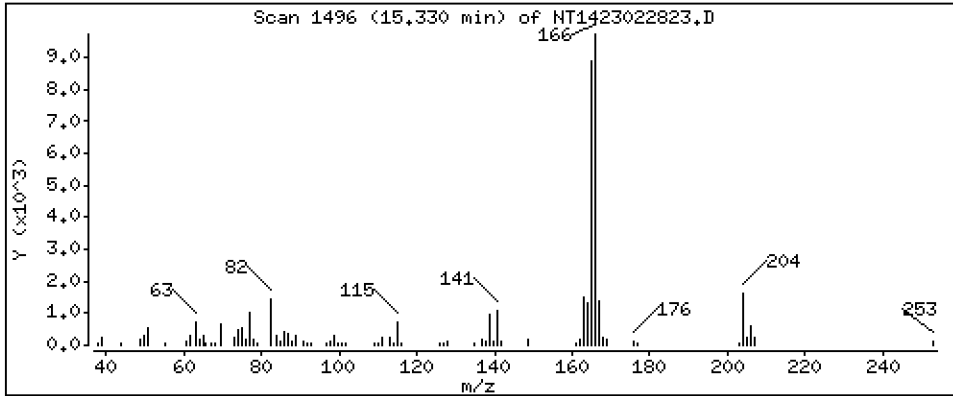
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,2100 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

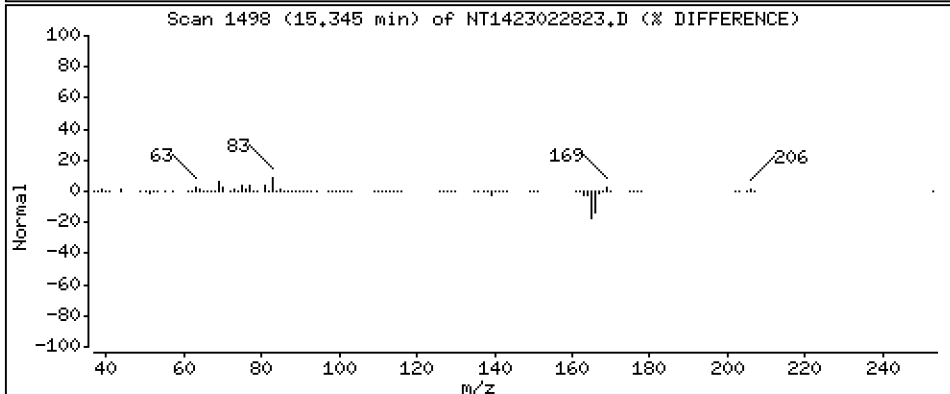
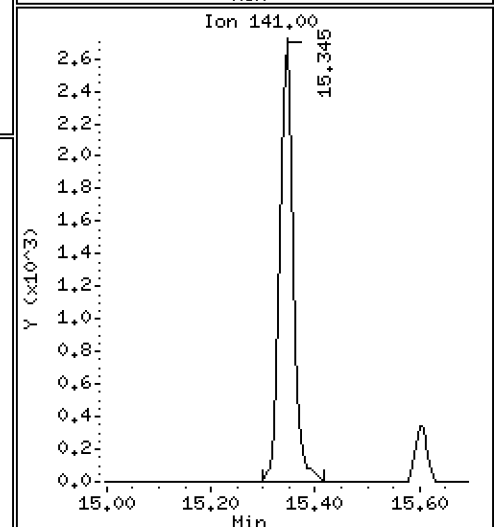
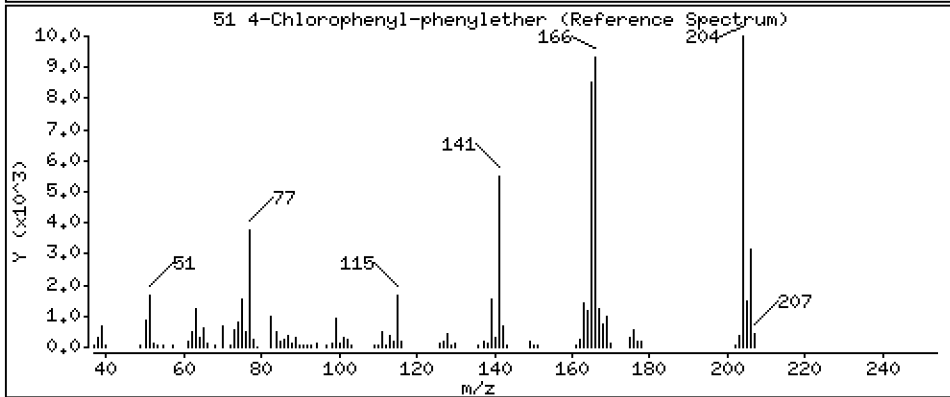
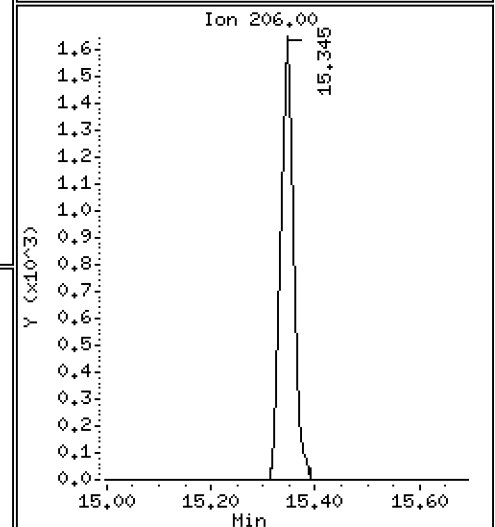
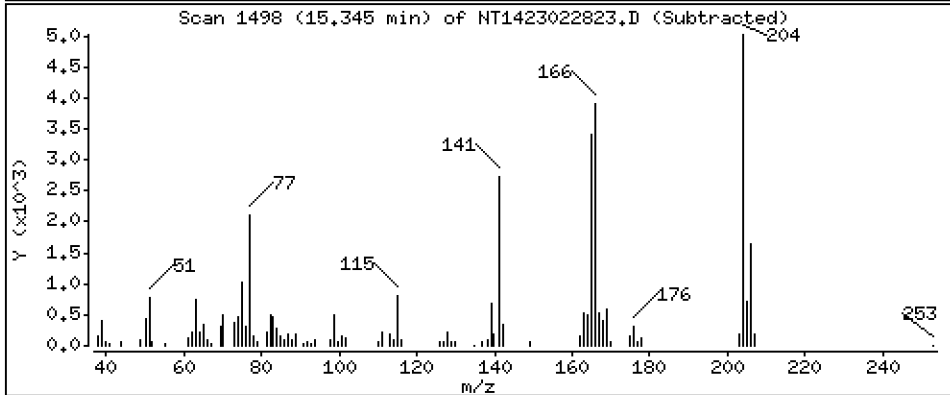
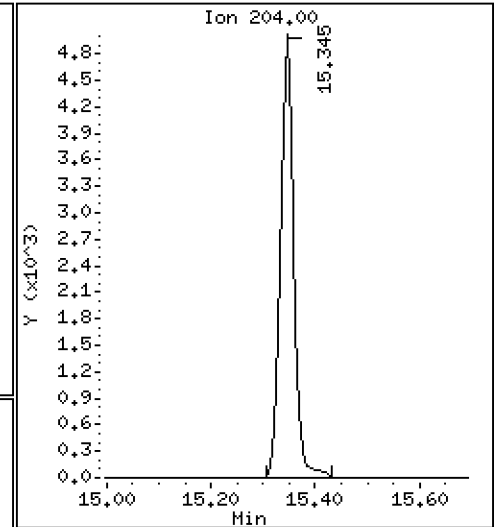
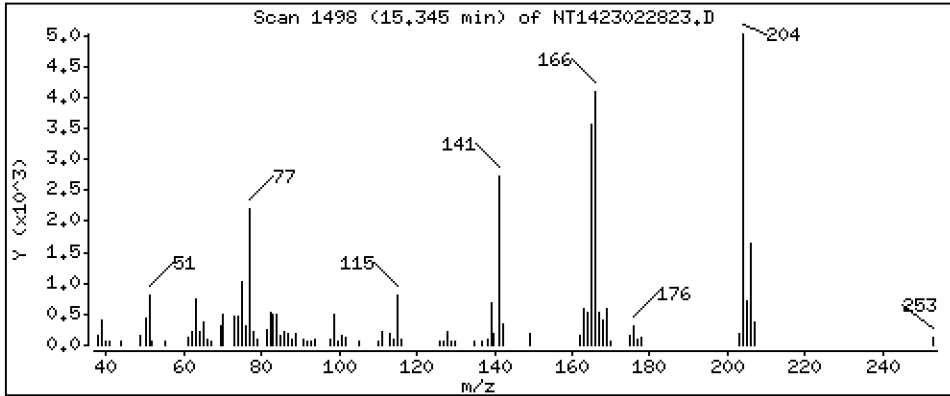
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,2012 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

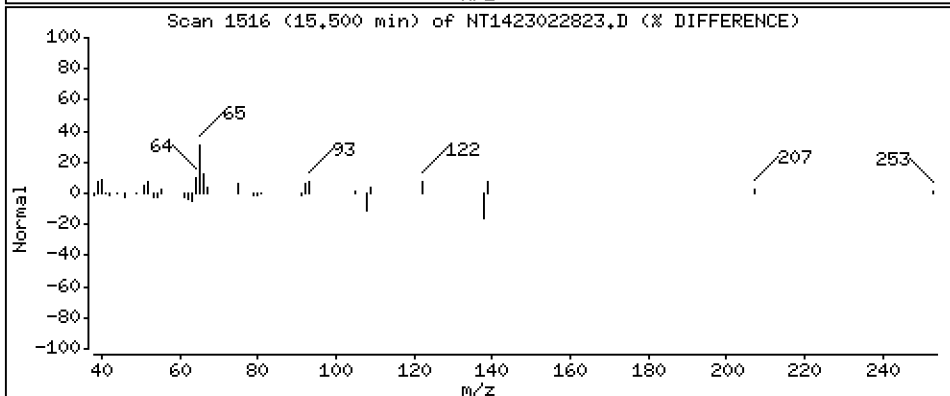
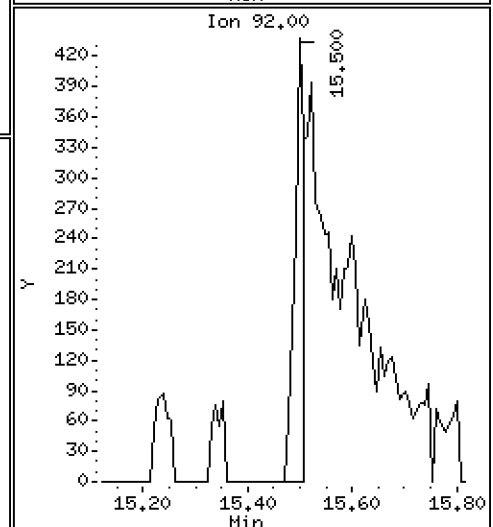
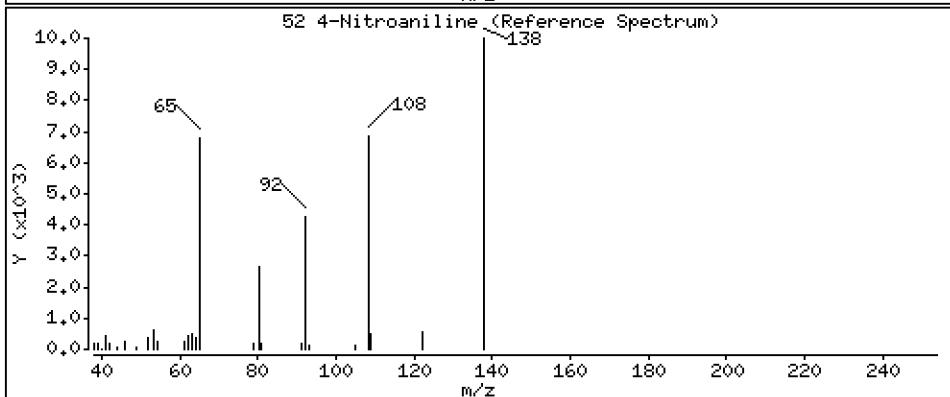
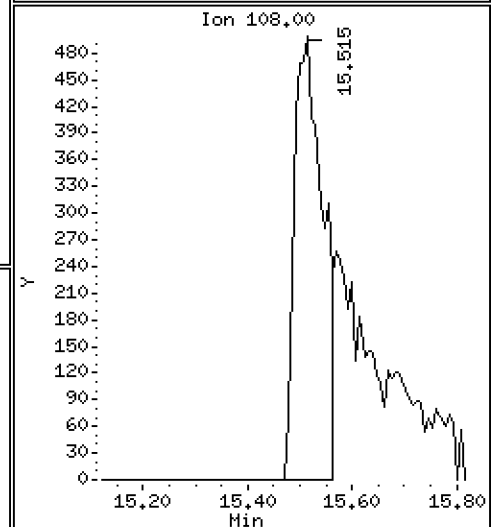
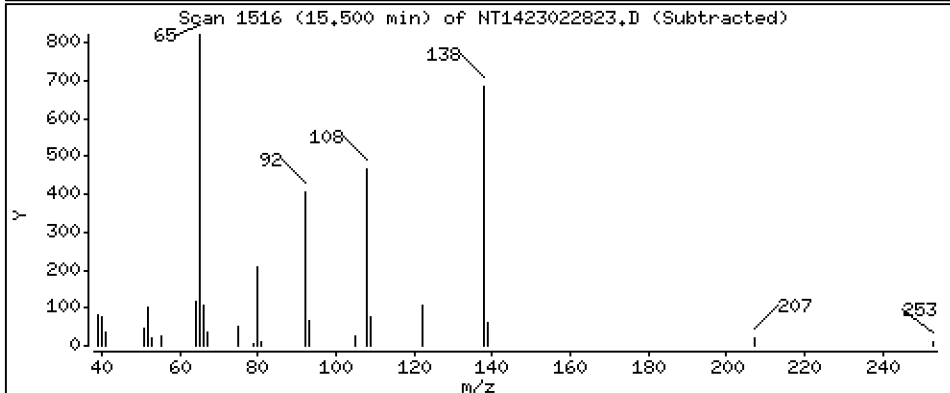
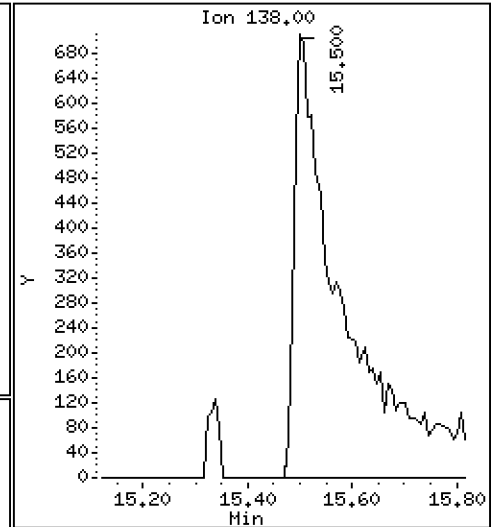
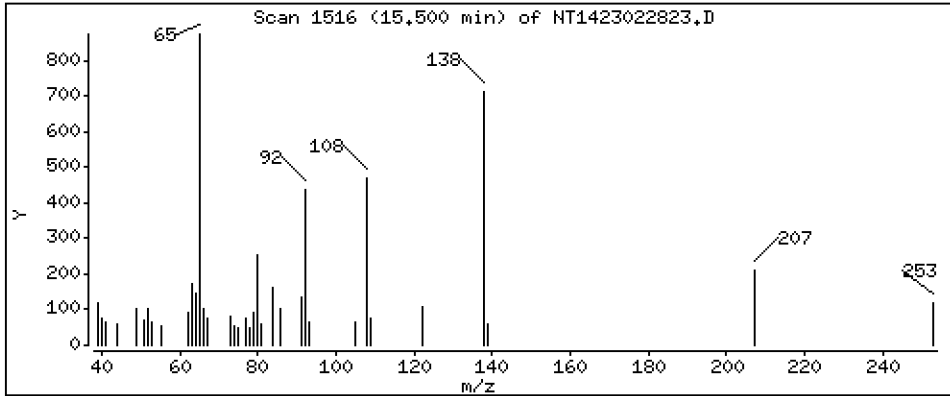
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,2714 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

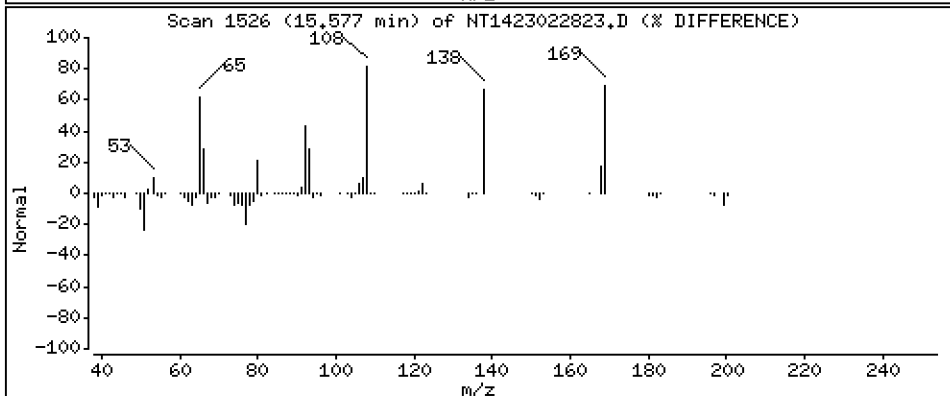
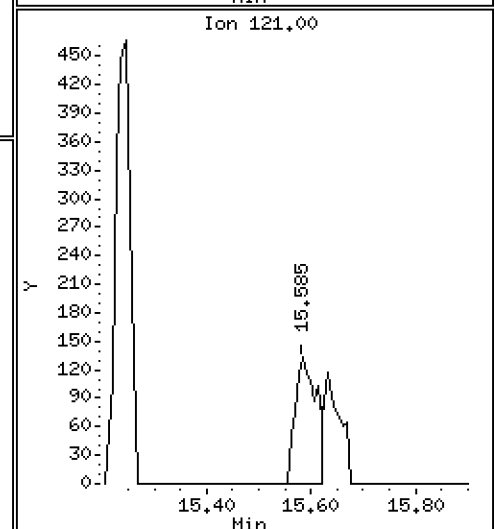
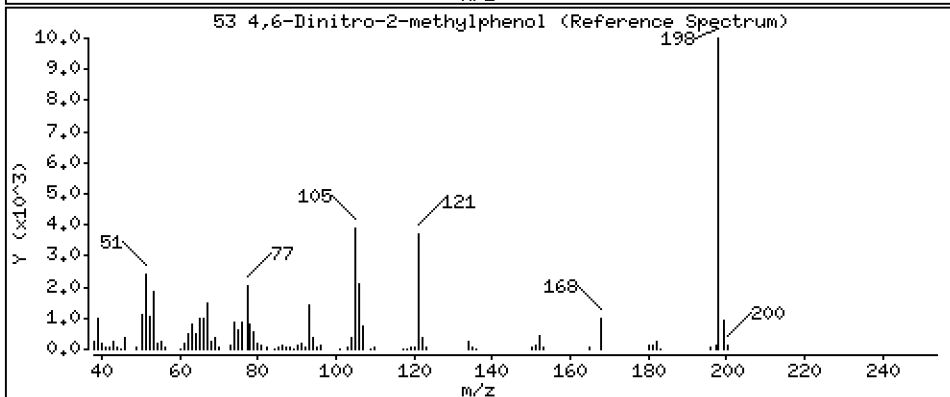
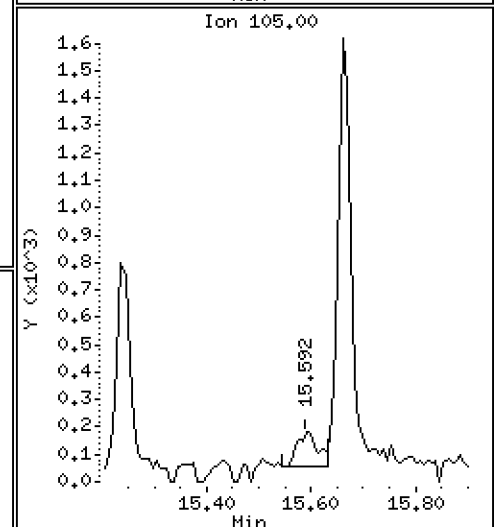
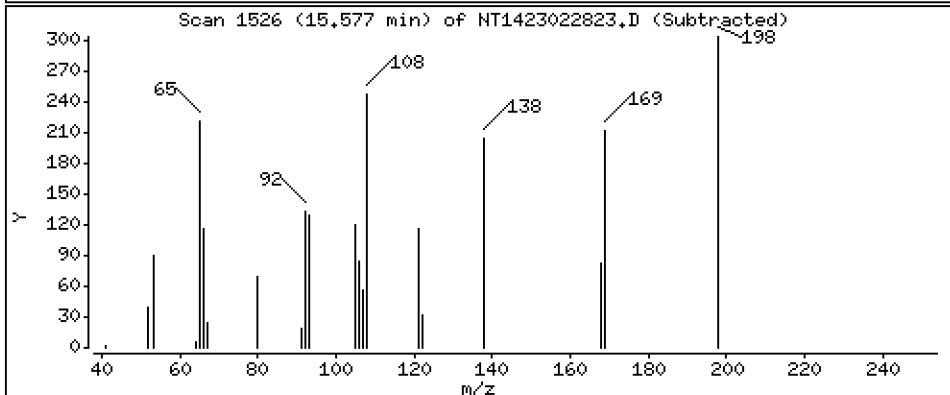
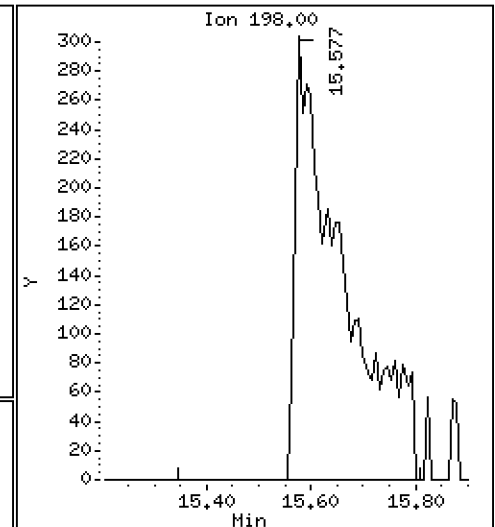
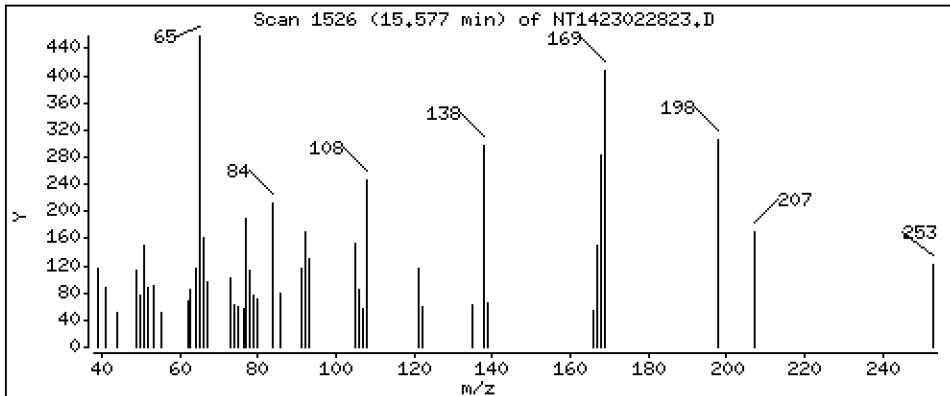
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,1376 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

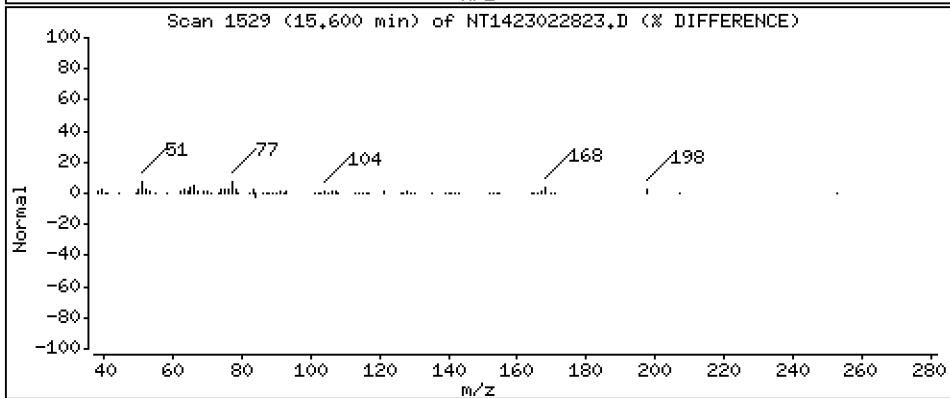
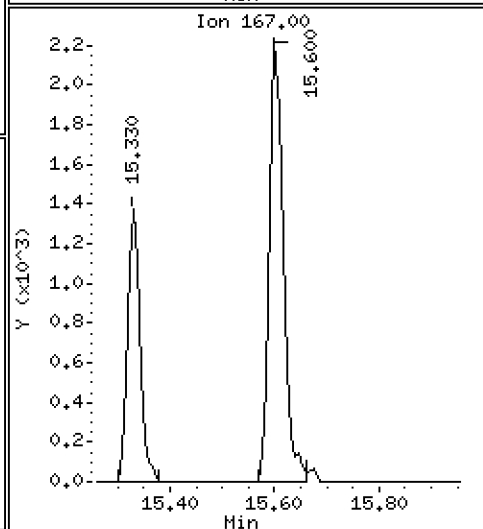
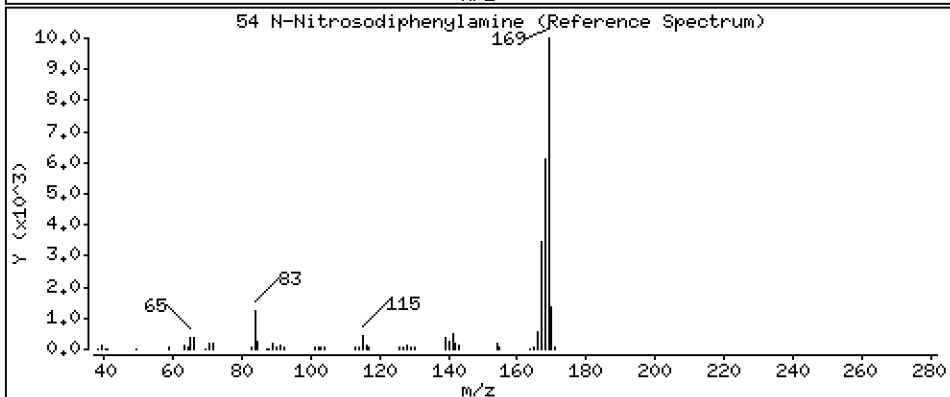
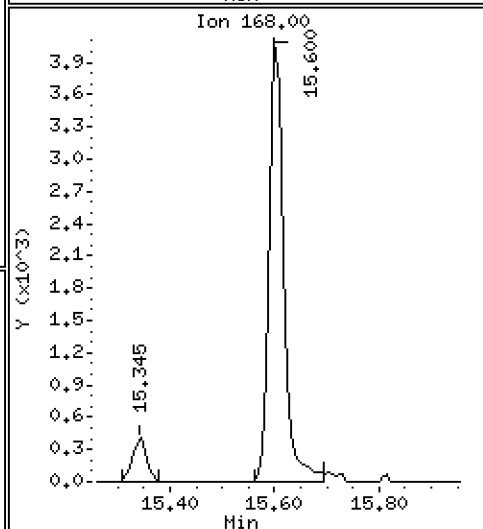
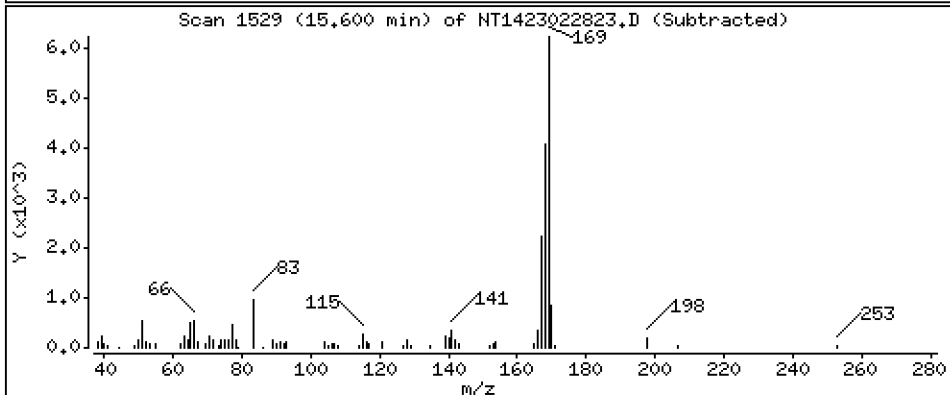
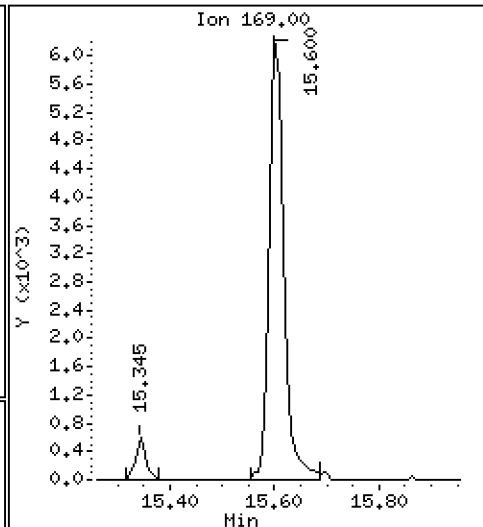
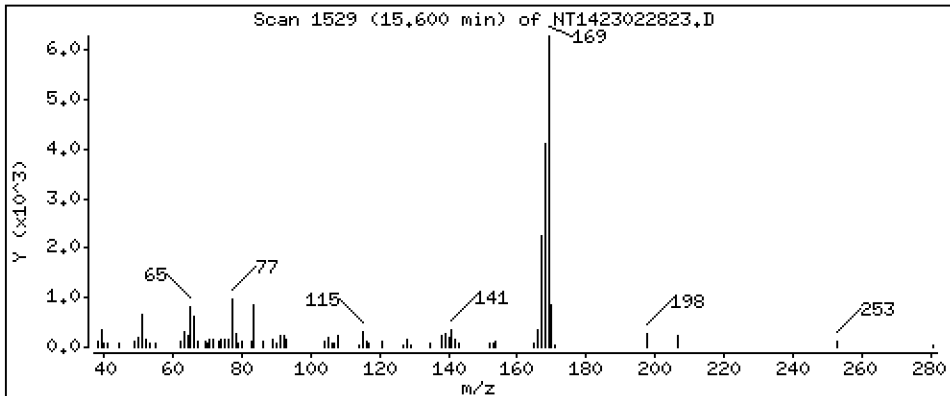
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,2123 ug/mL





Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

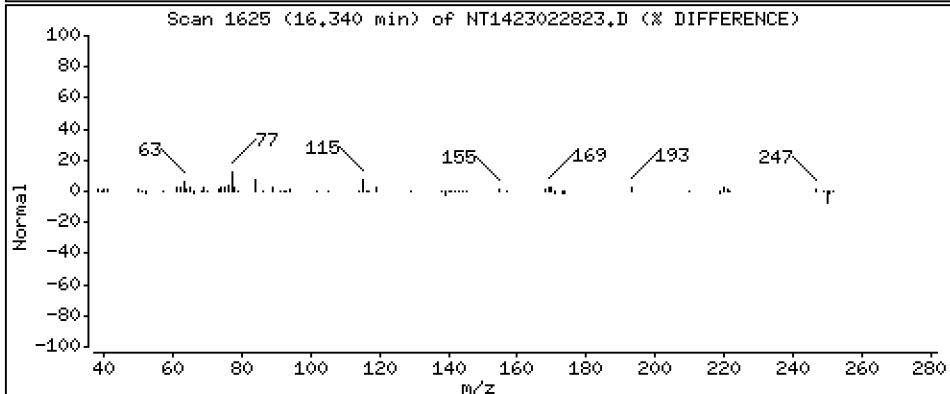
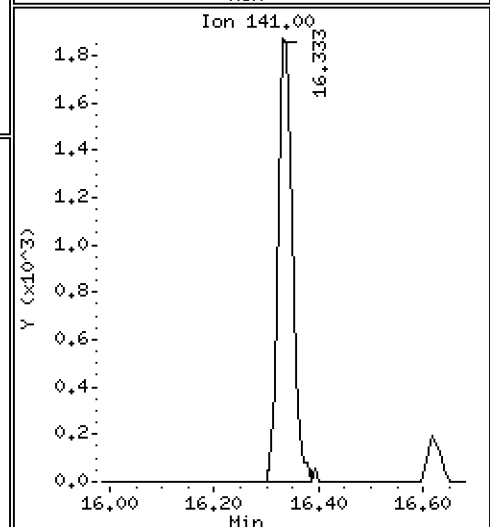
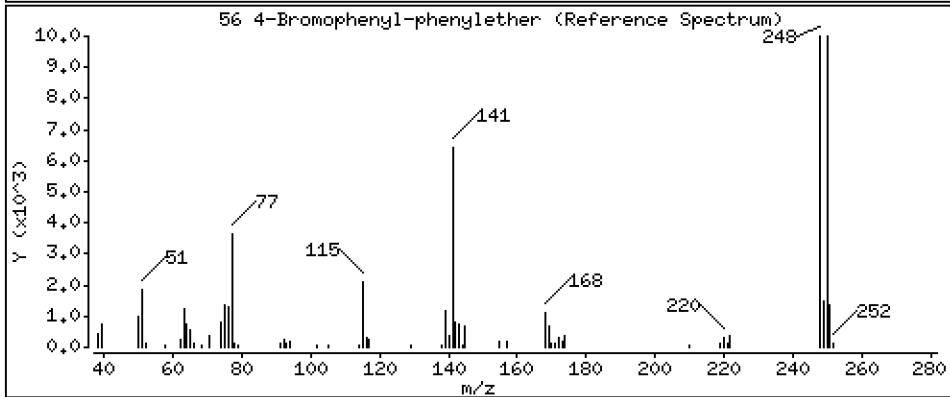
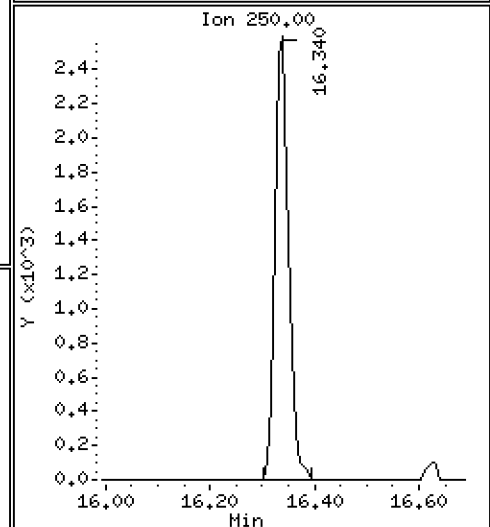
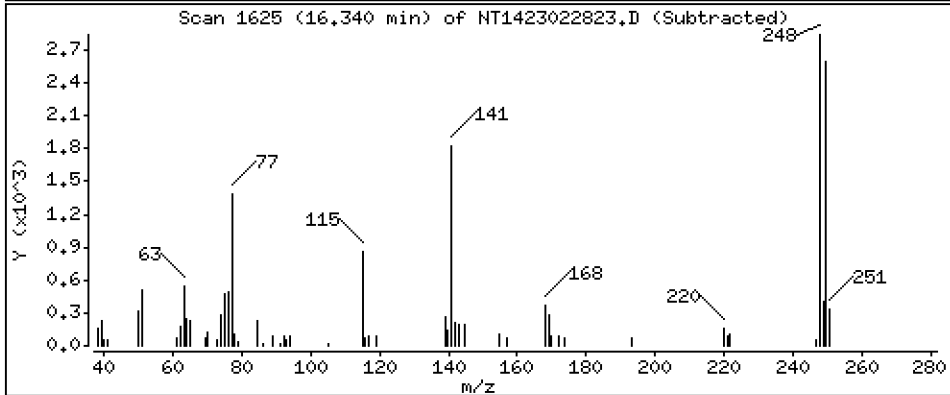
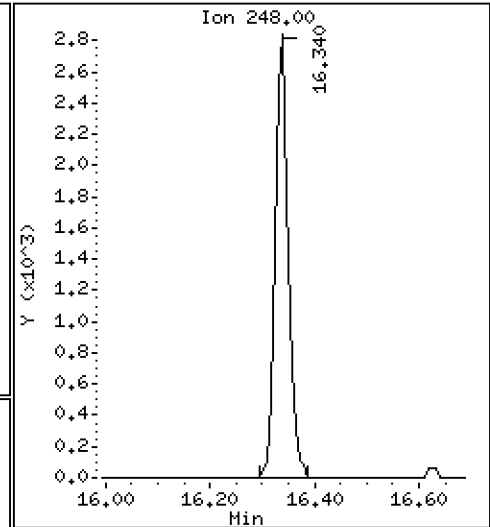
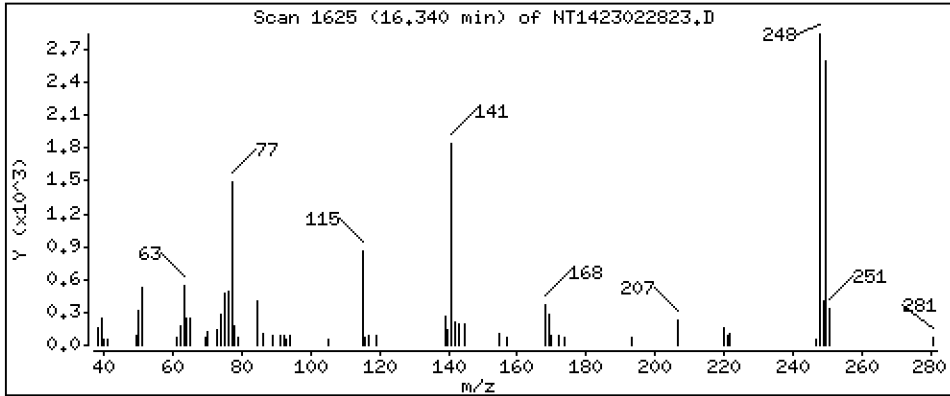
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,2019 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

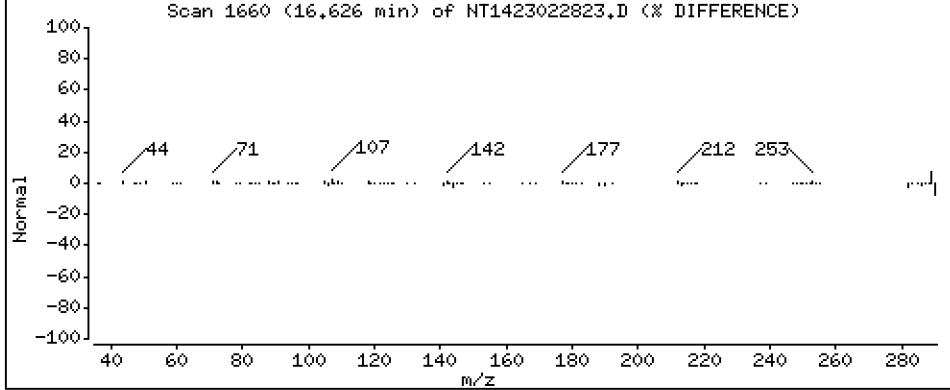
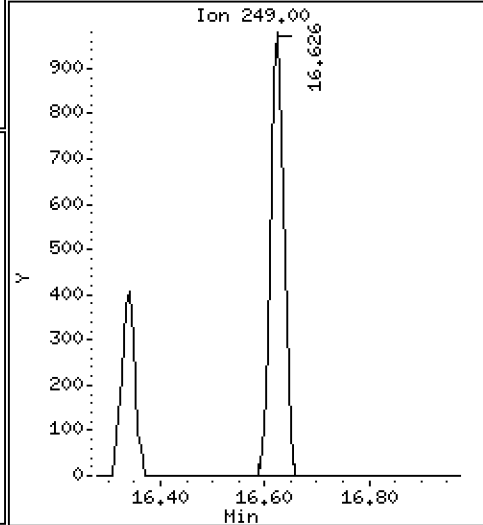
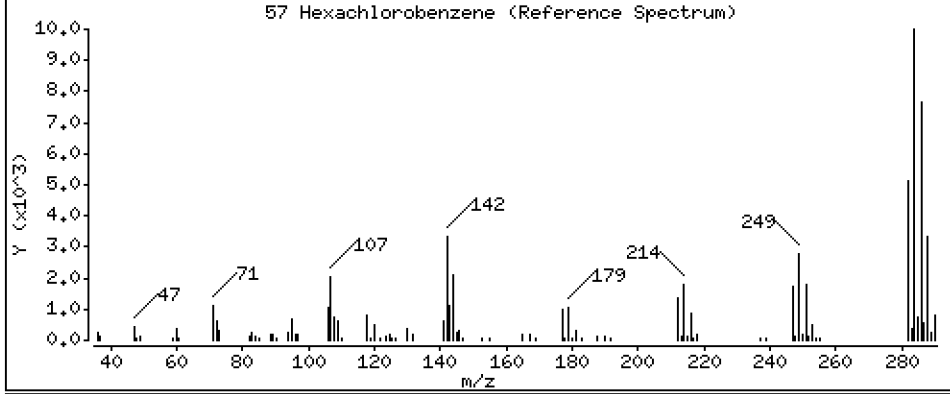
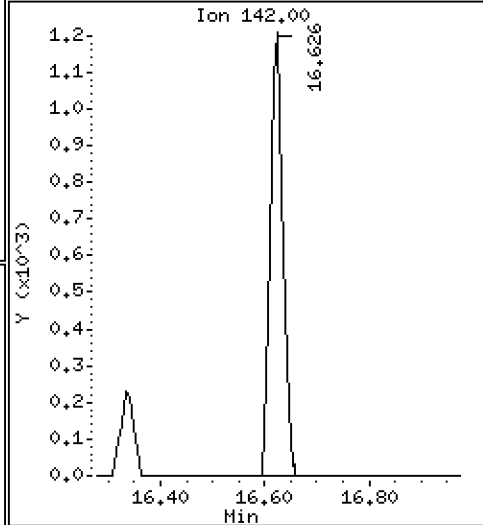
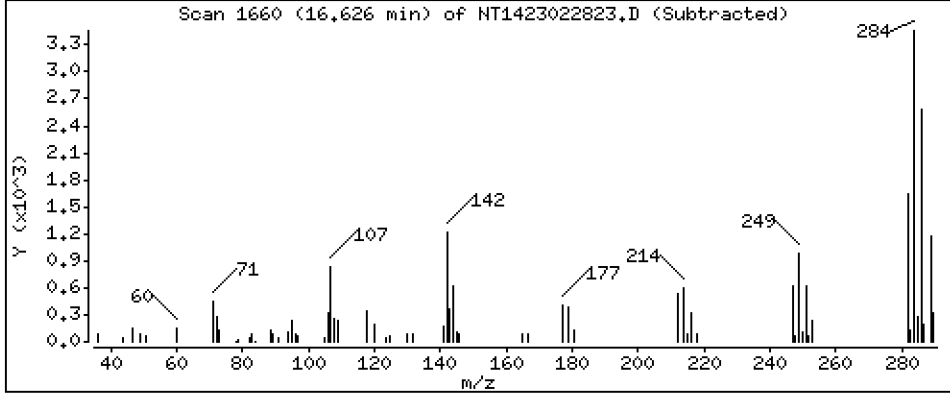
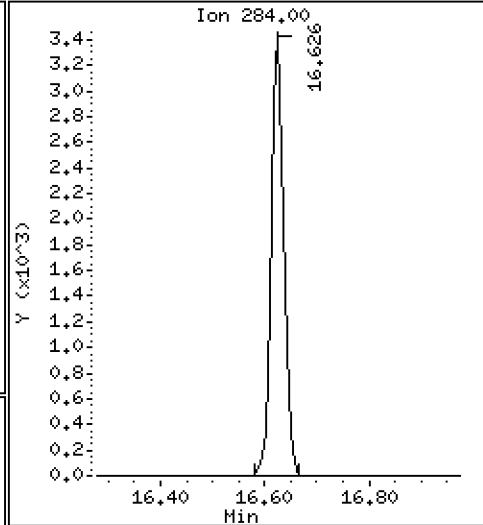
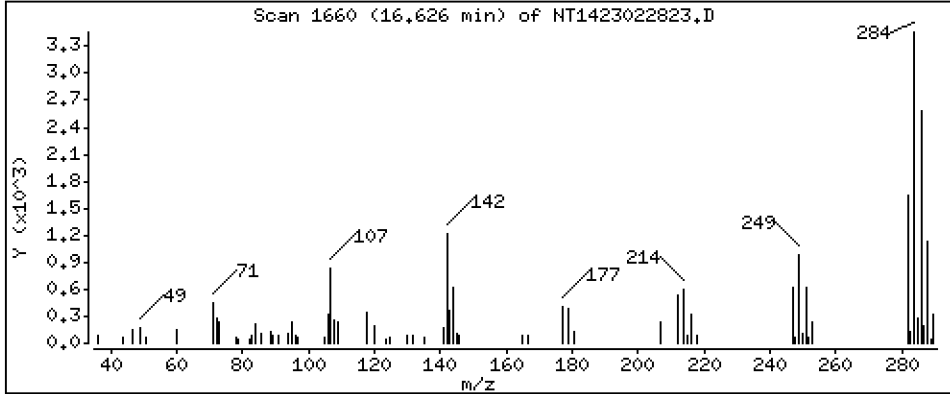
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 0.2138 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

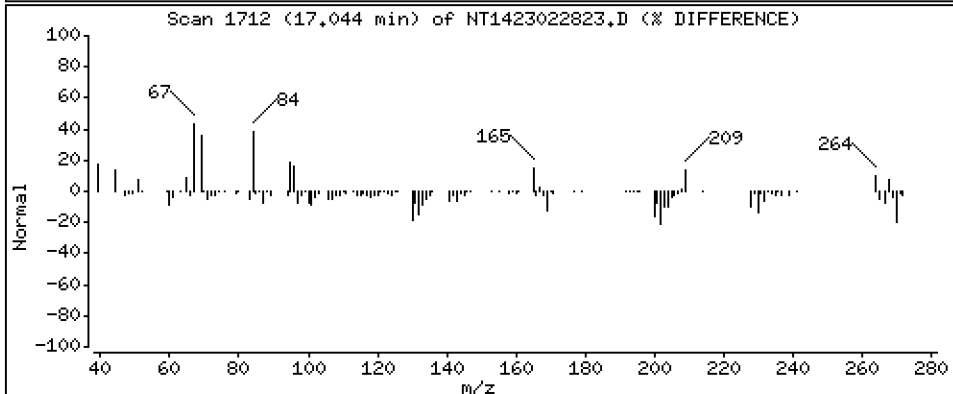
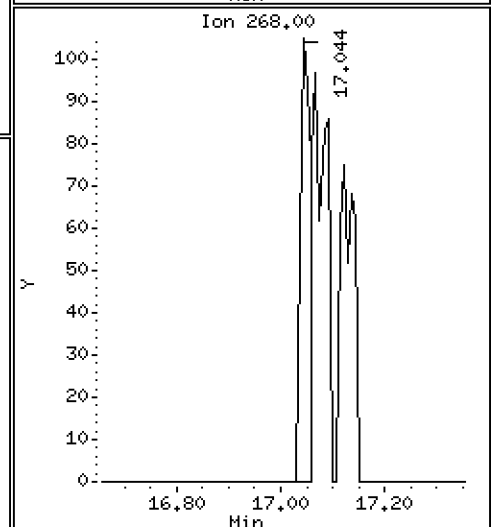
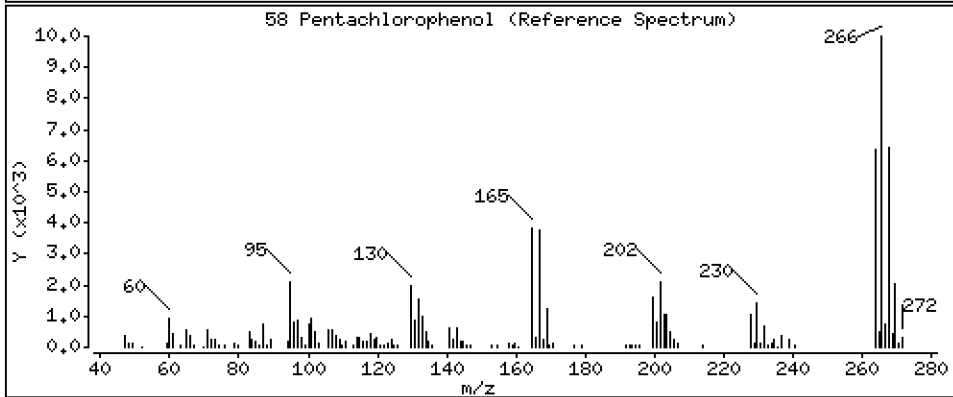
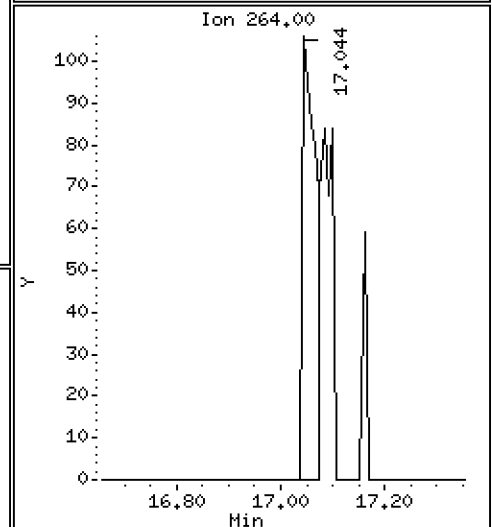
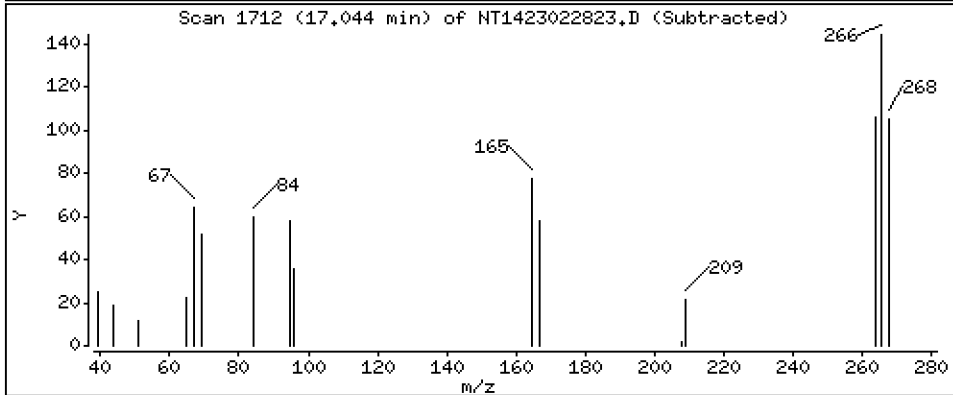
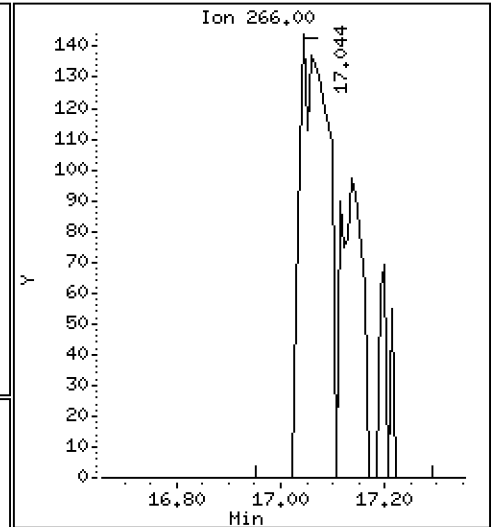
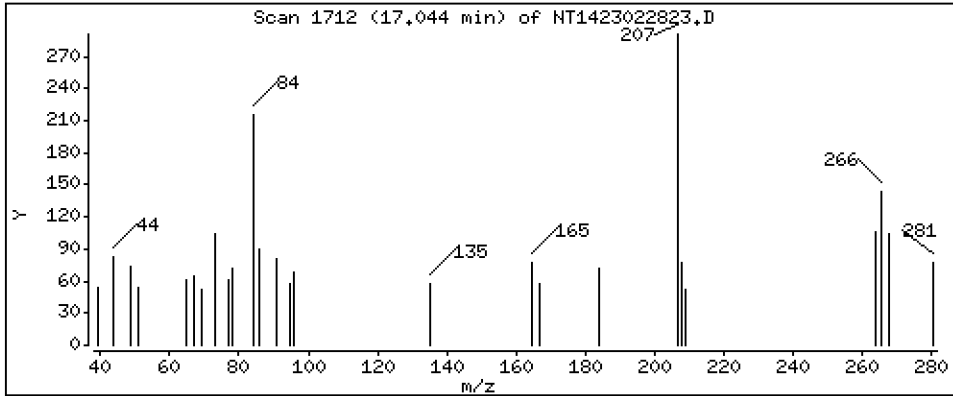
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

58 Pentachlorophenol

Concentration: 0.07199 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

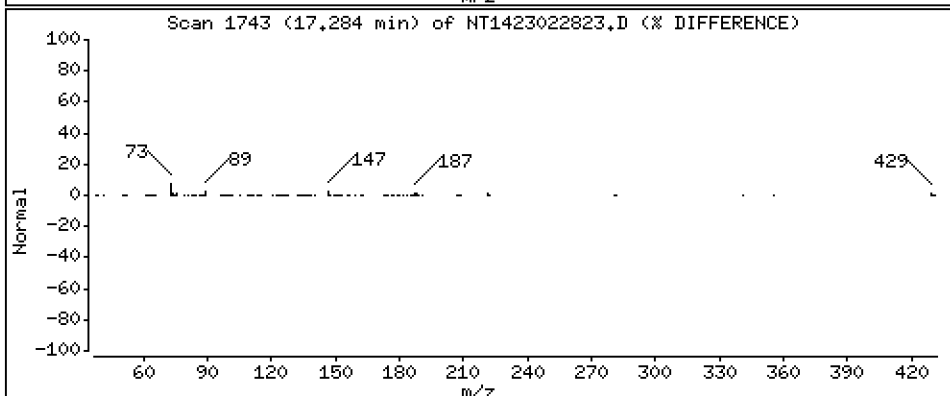
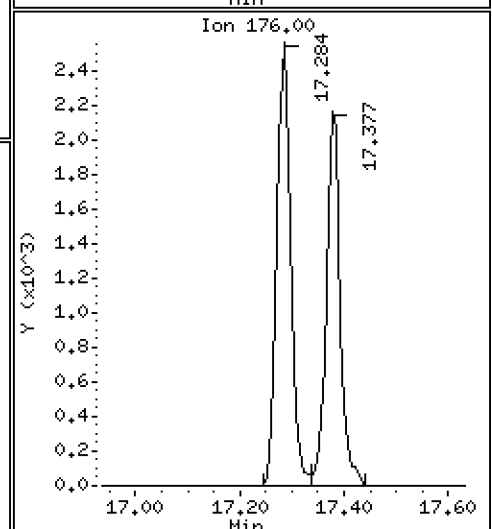
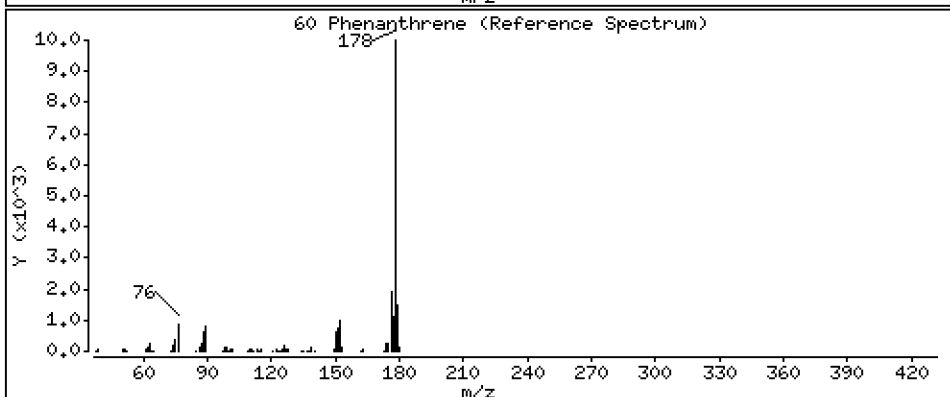
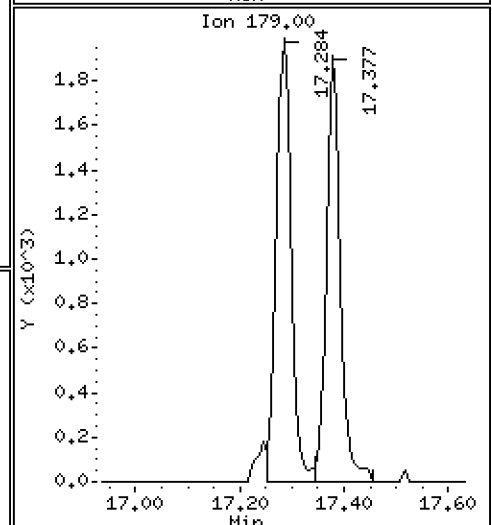
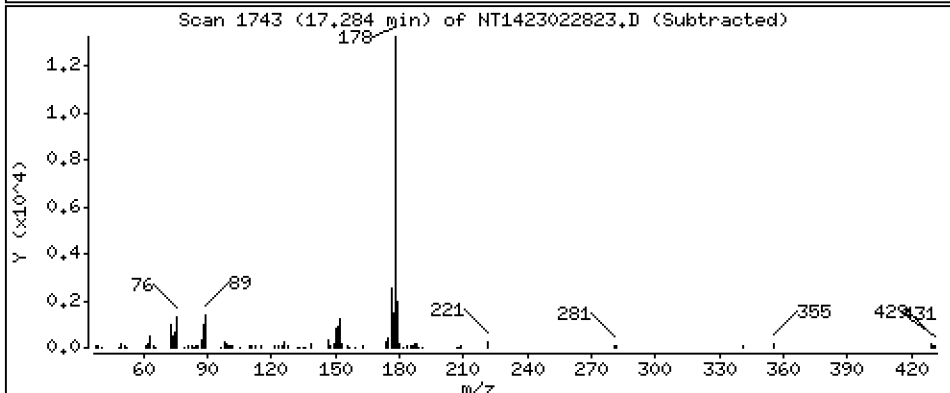
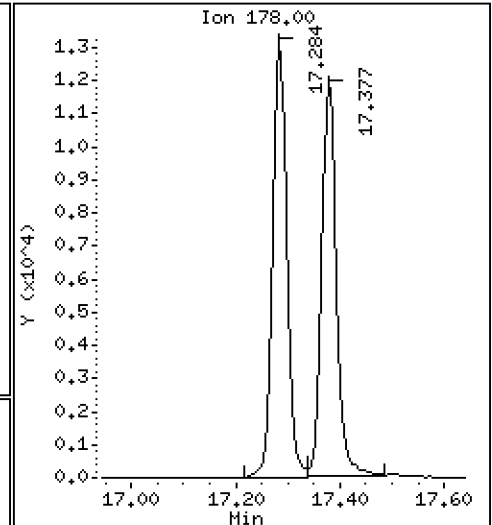
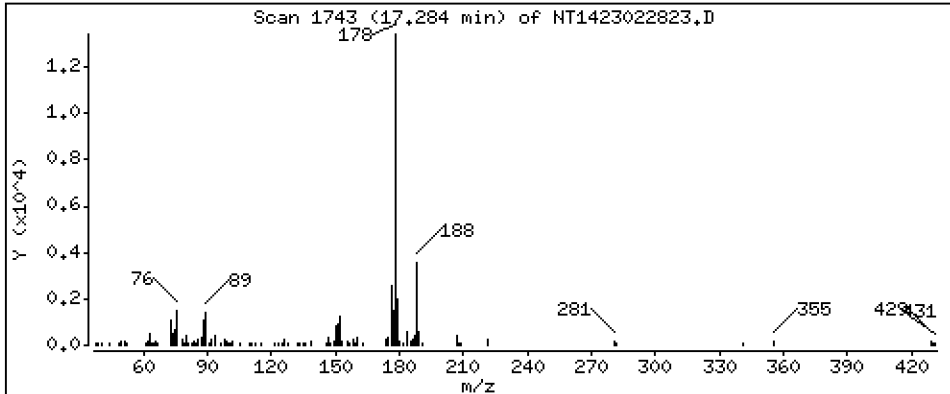
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 0.2061 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

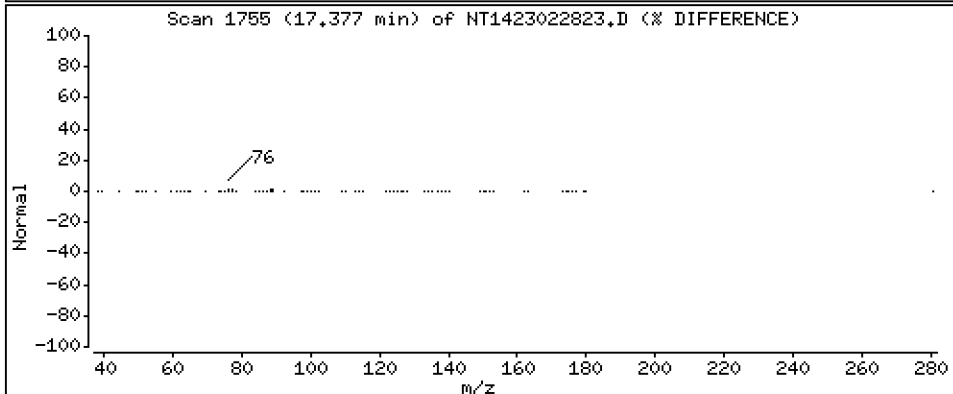
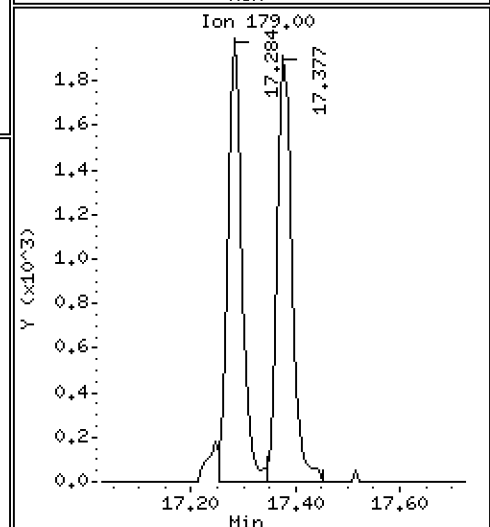
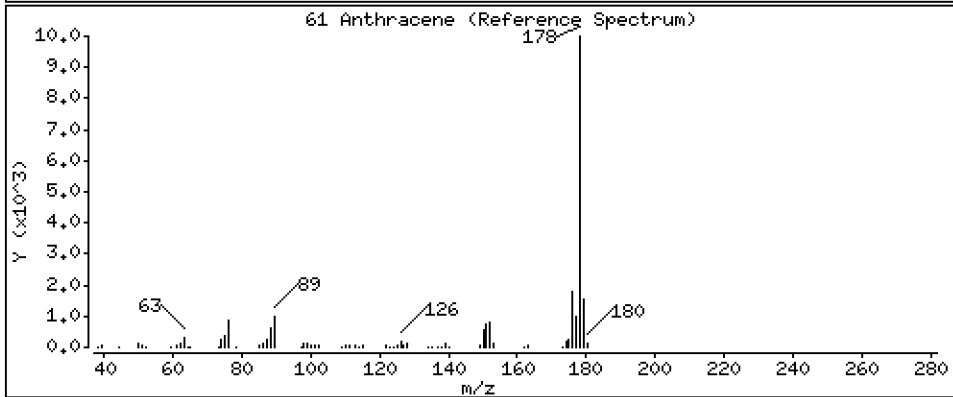
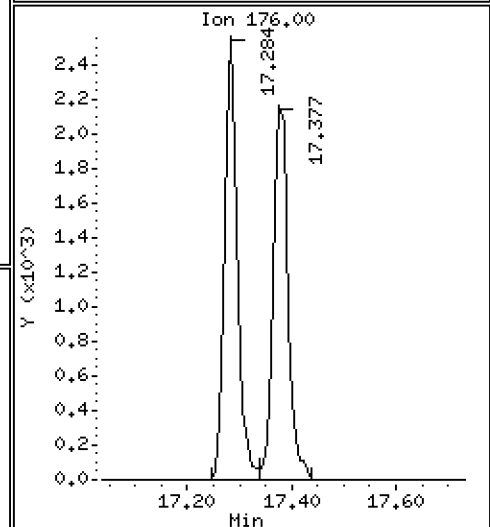
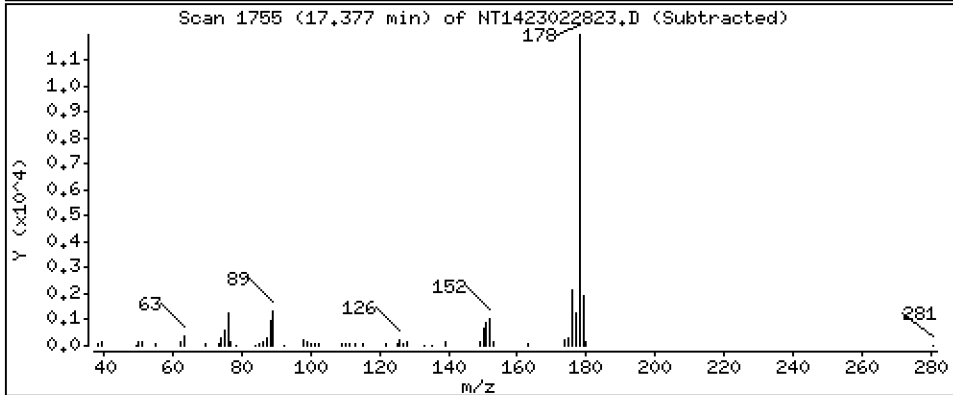
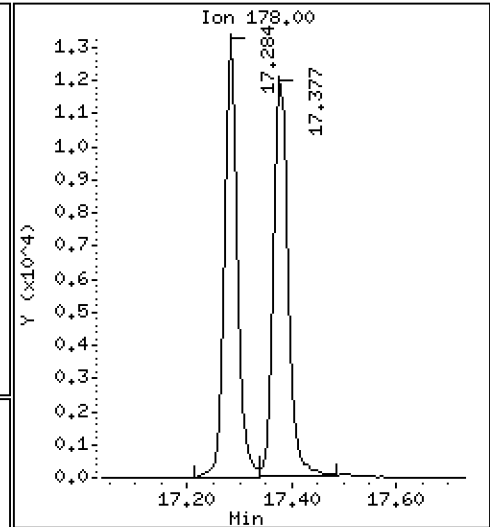
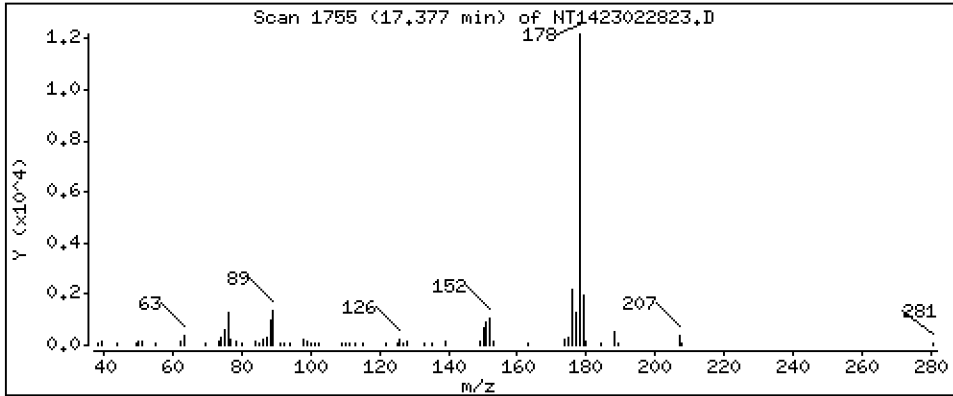
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2046 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

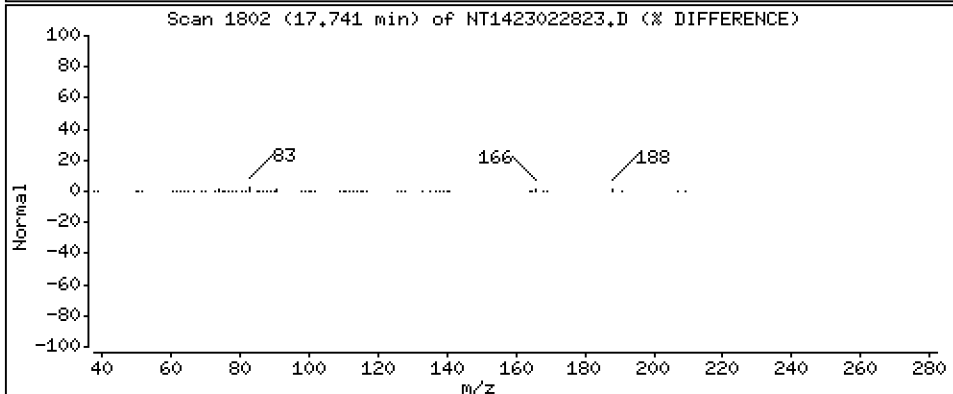
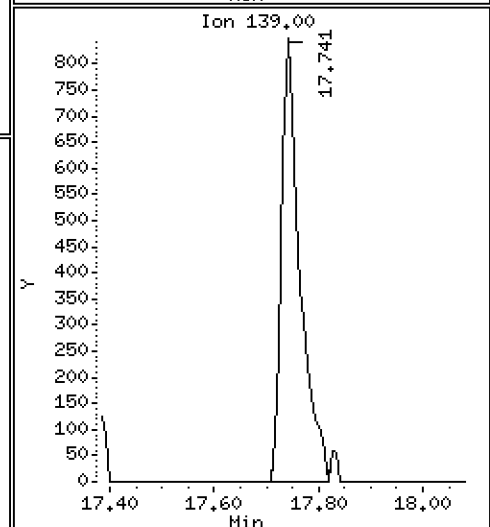
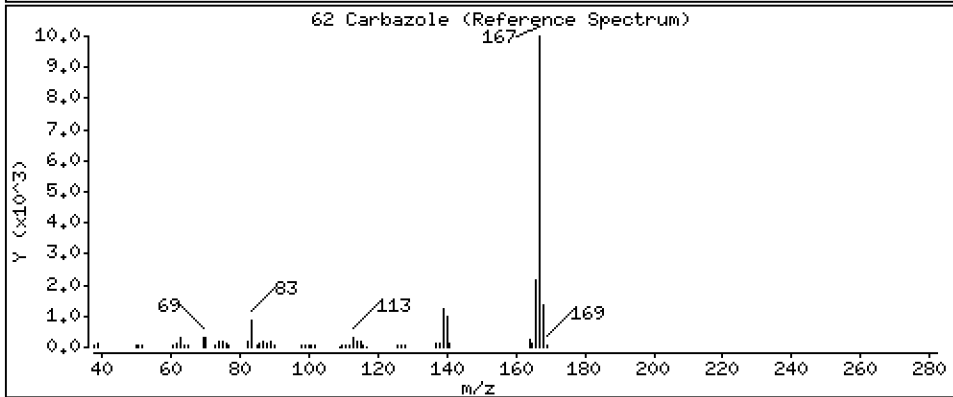
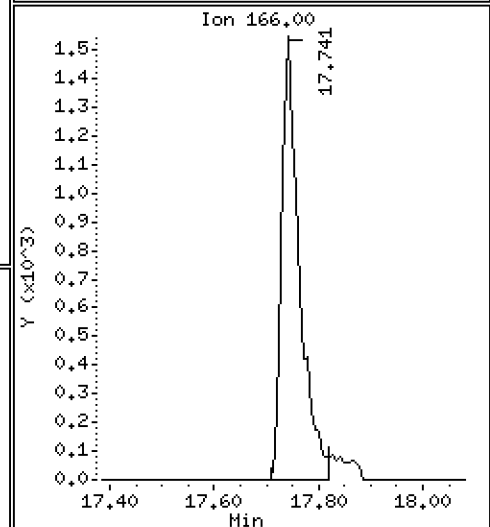
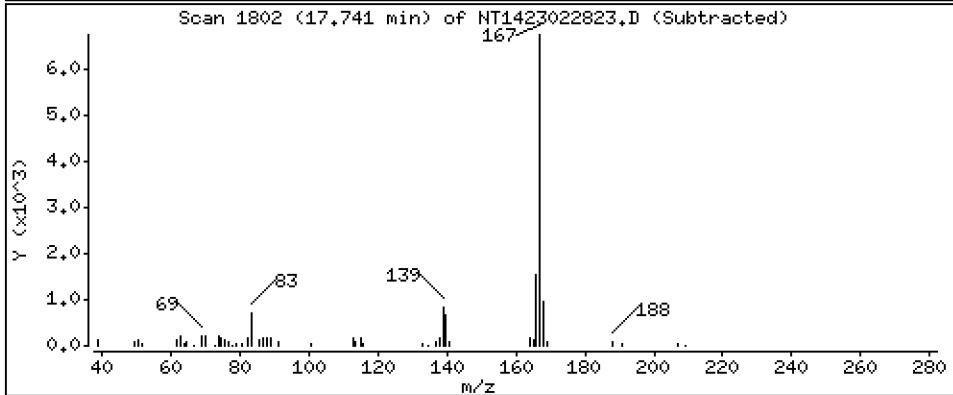
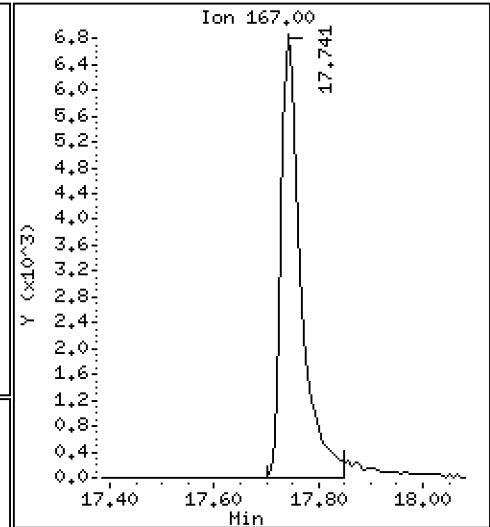
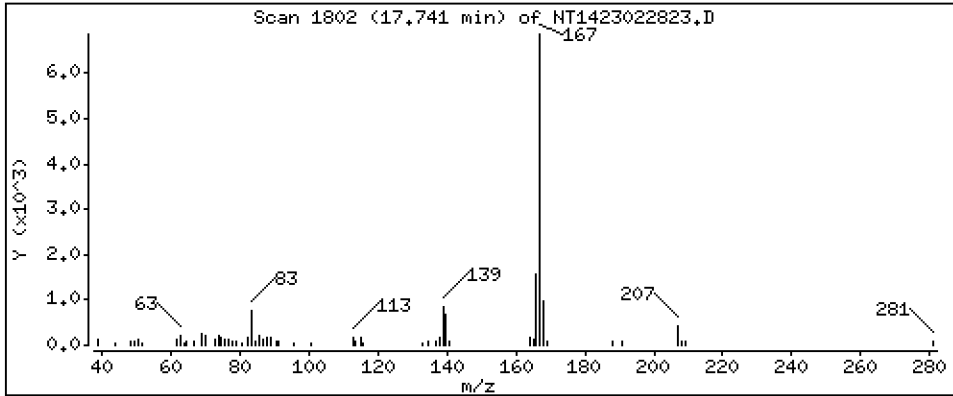
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1855 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

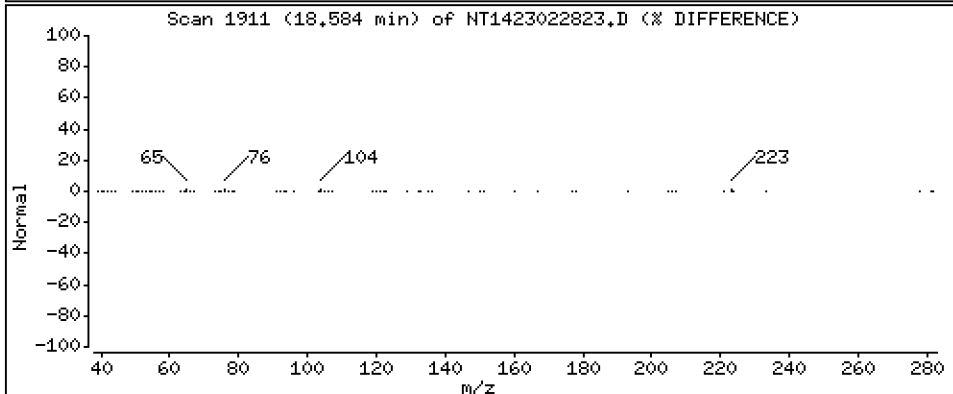
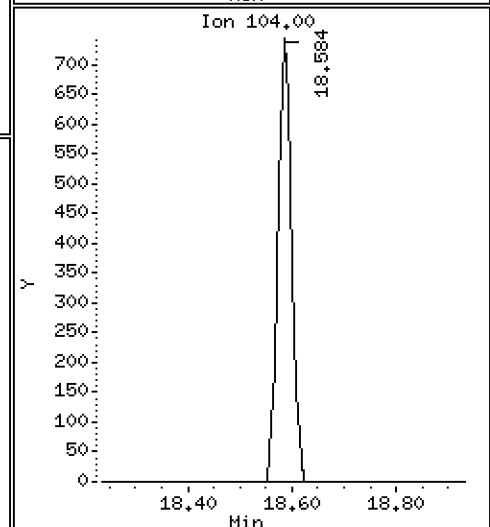
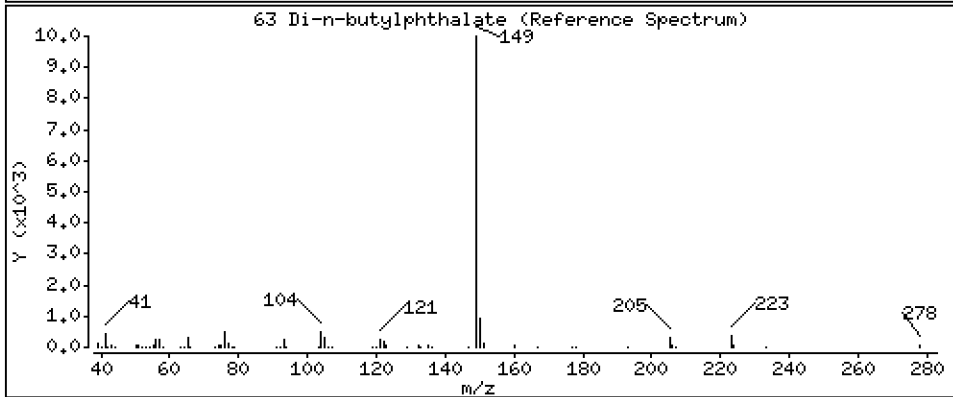
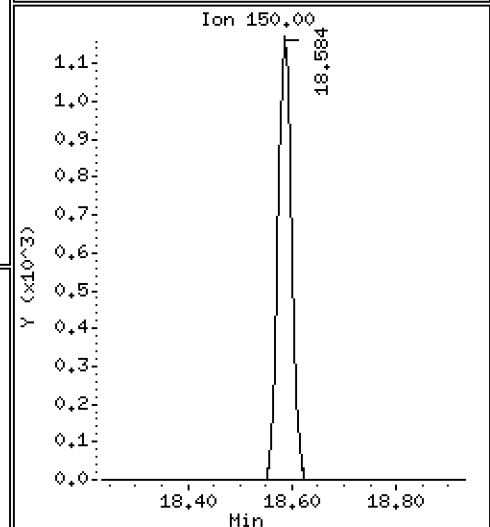
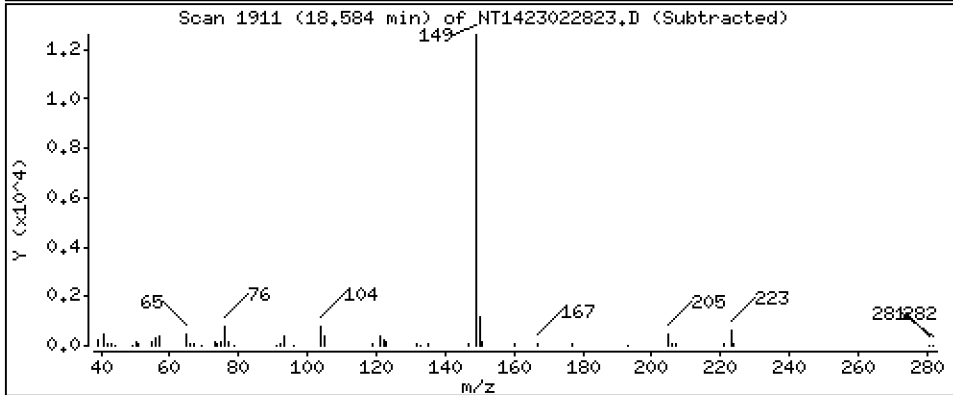
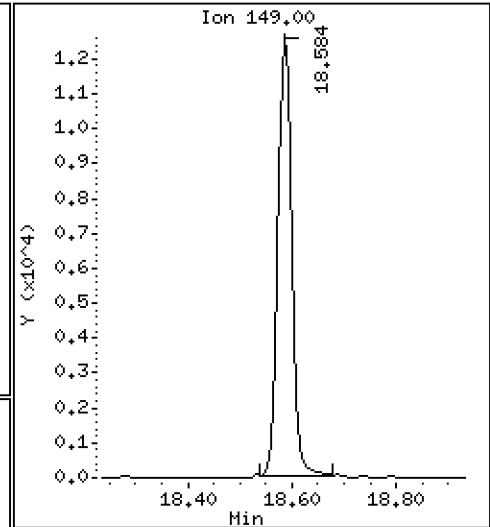
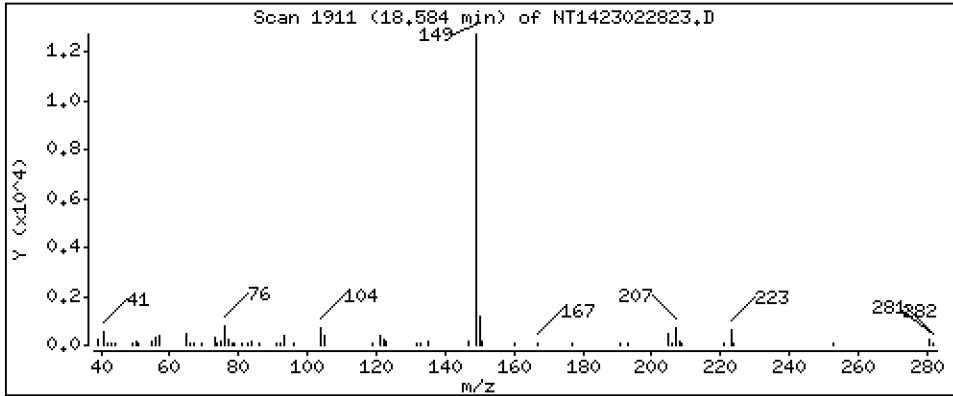
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,1791 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

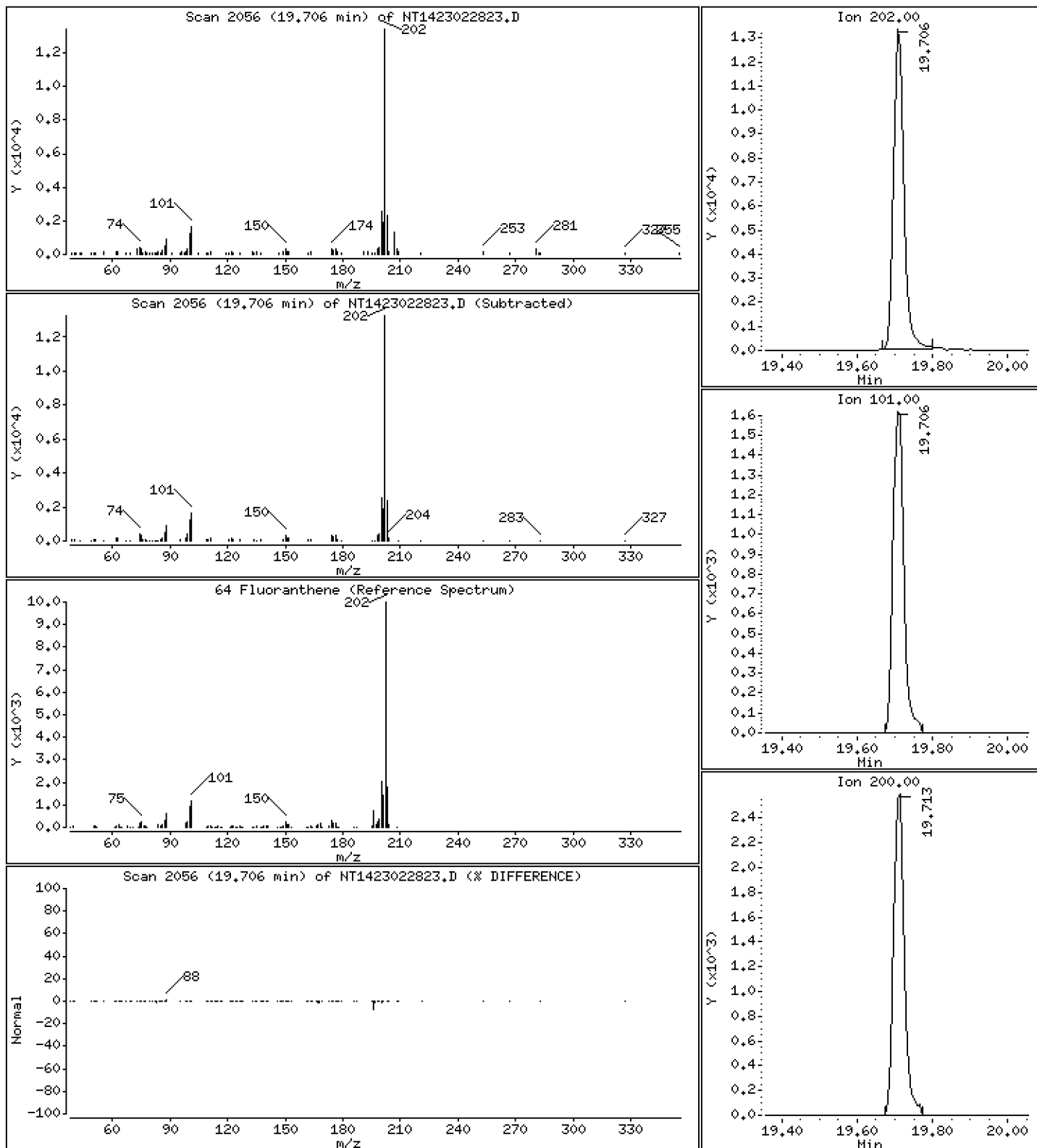
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,1972 ug/mL





Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

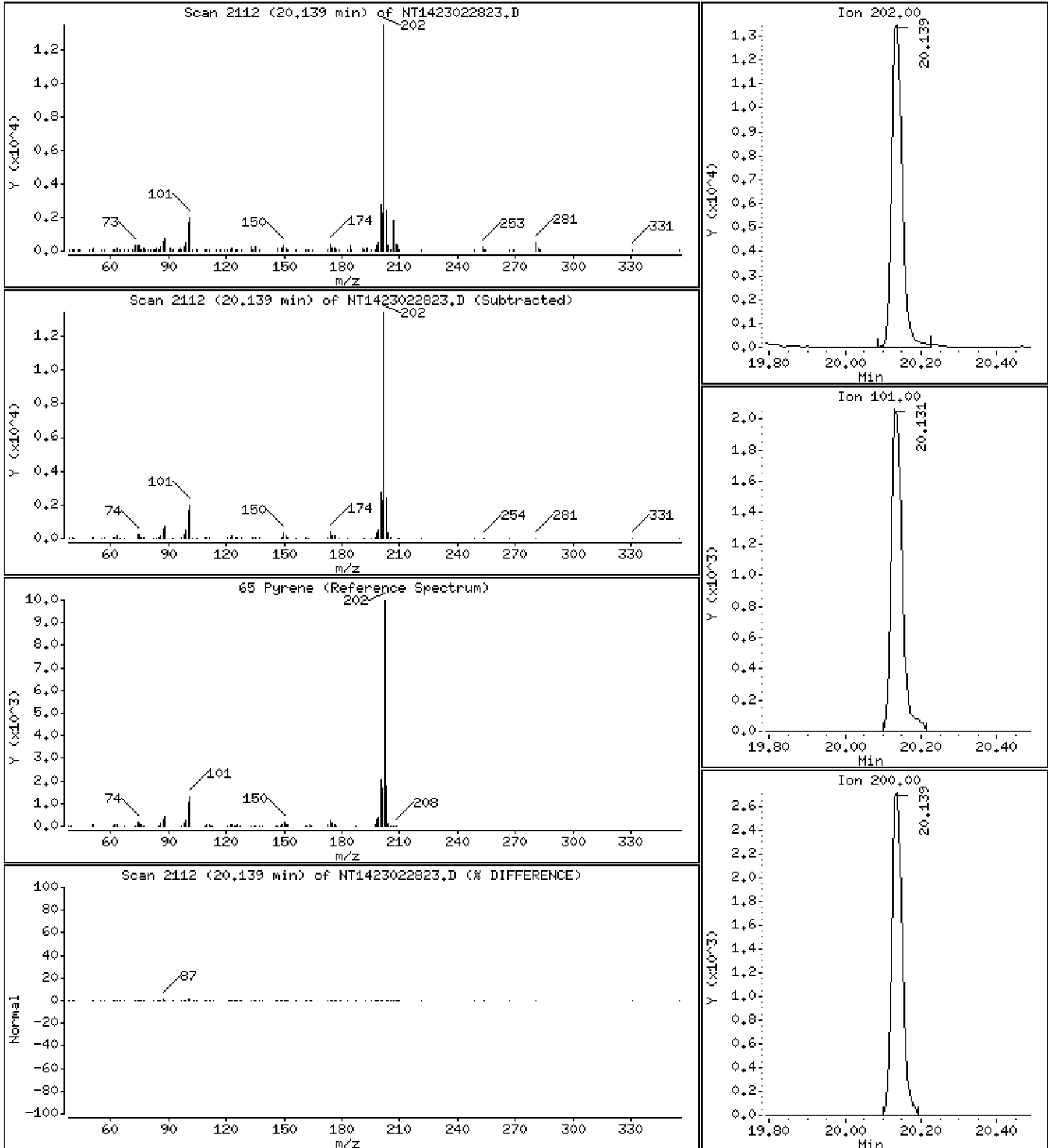
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,1944 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

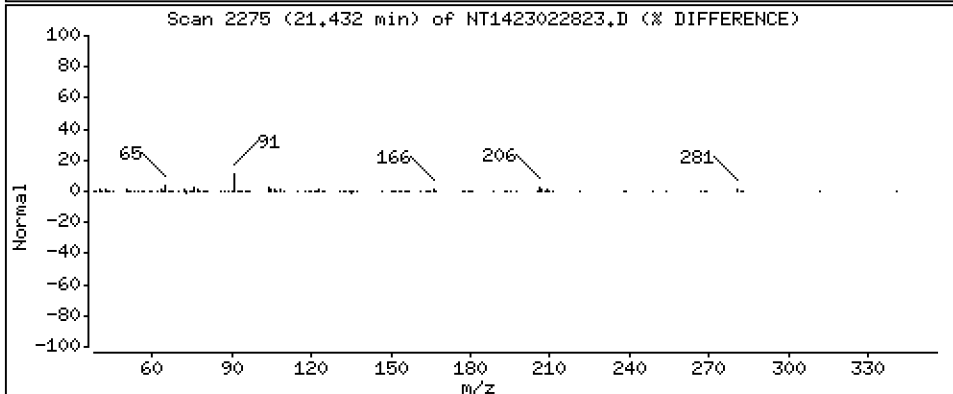
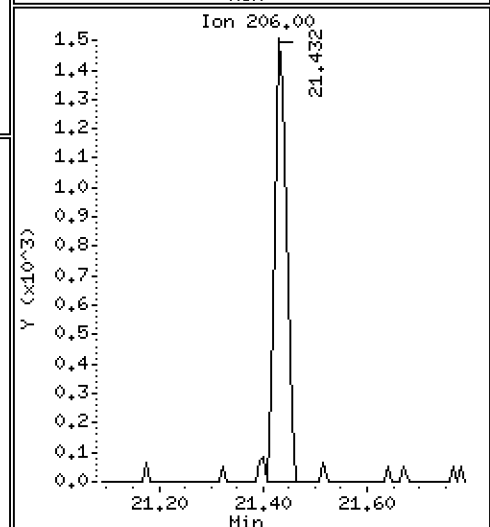
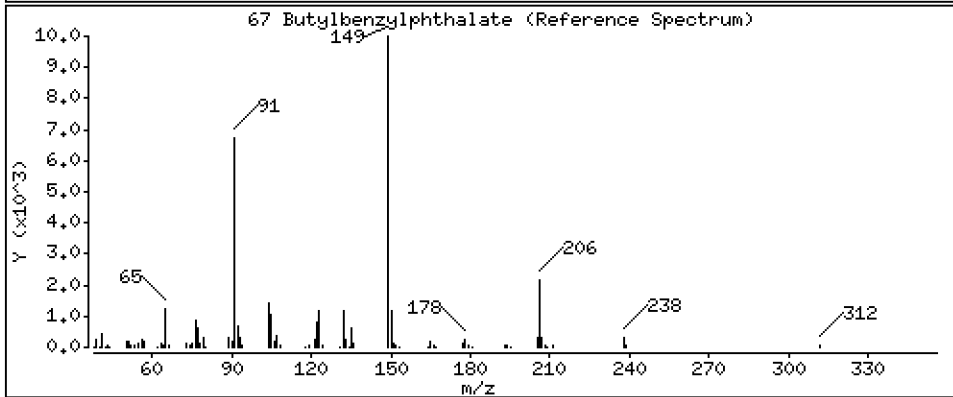
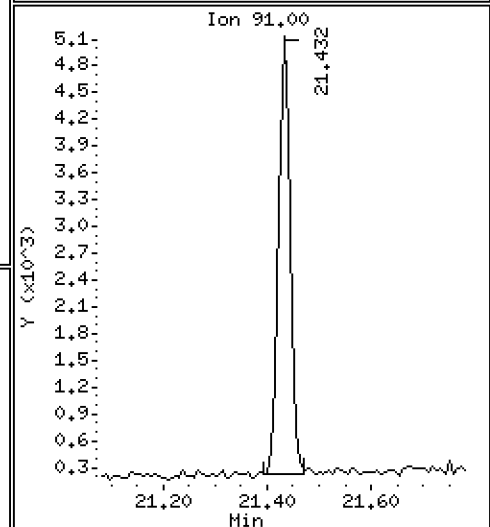
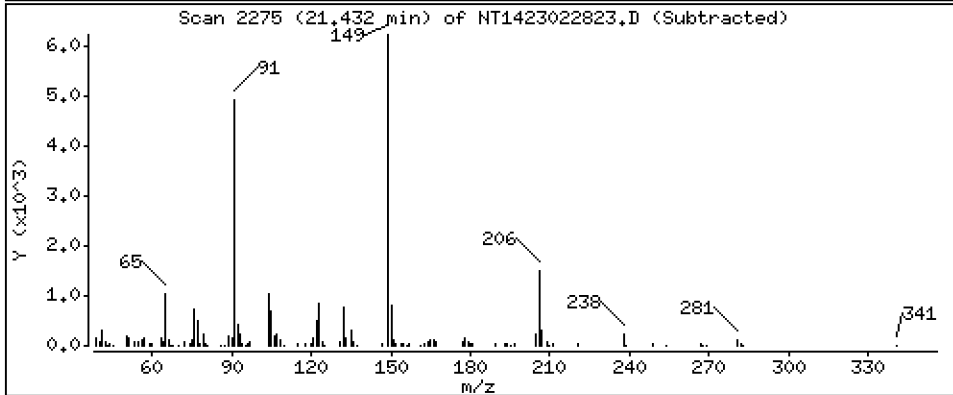
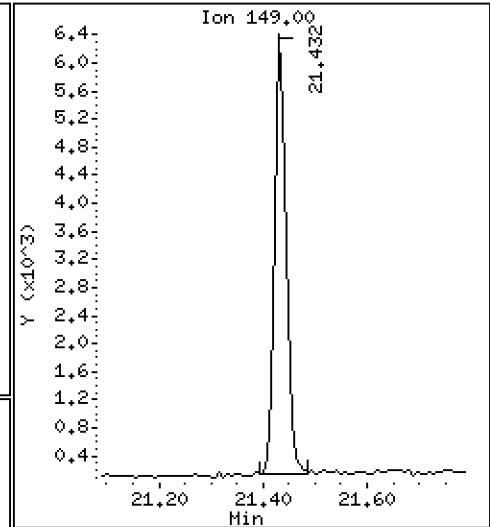
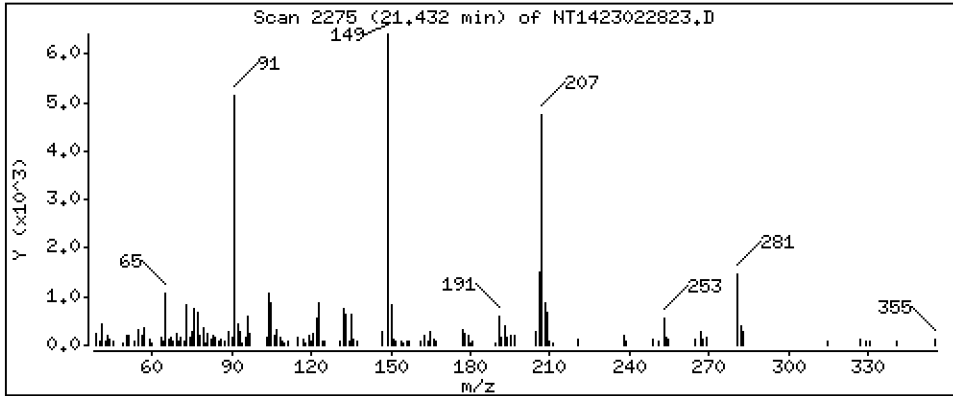
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,2043 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

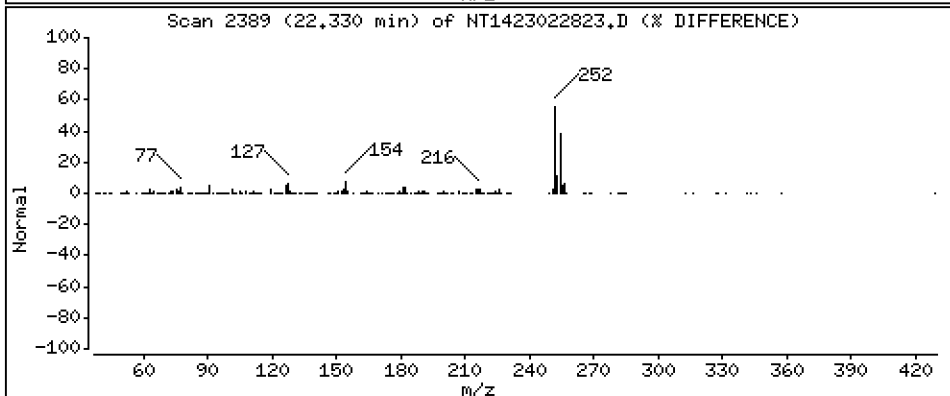
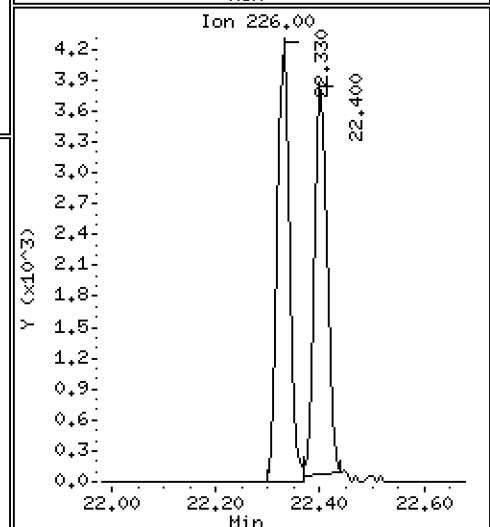
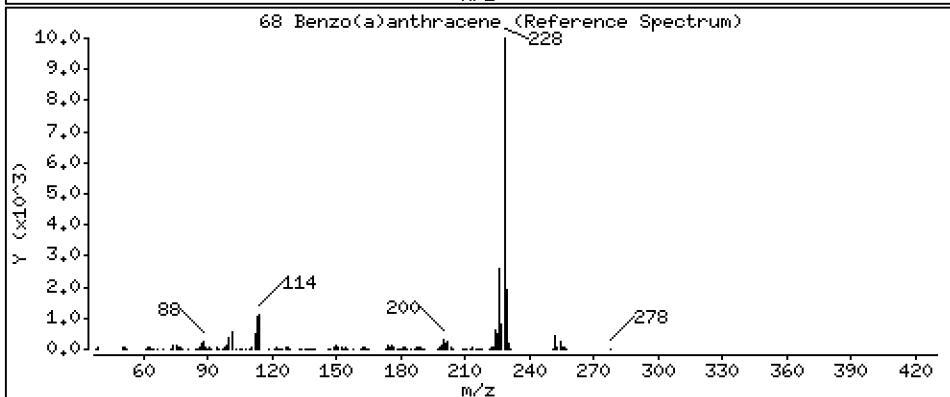
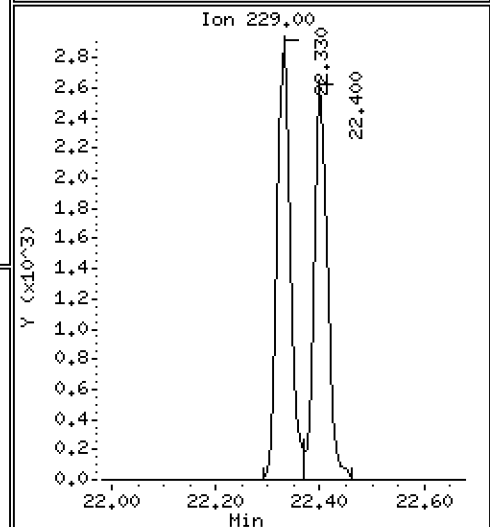
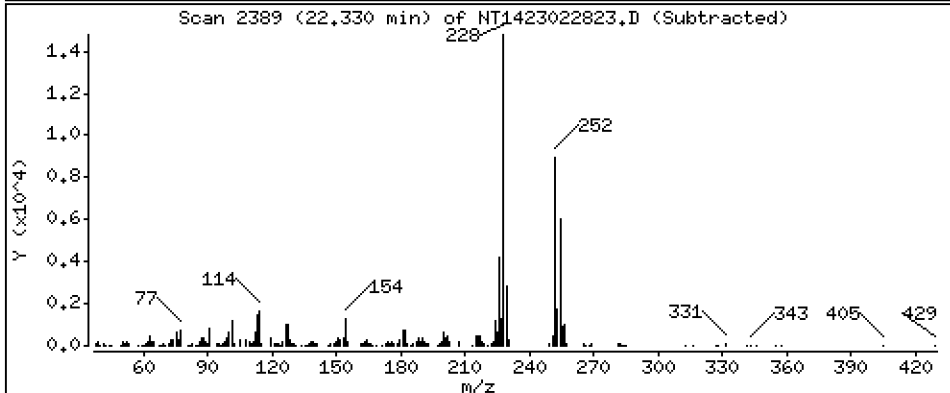
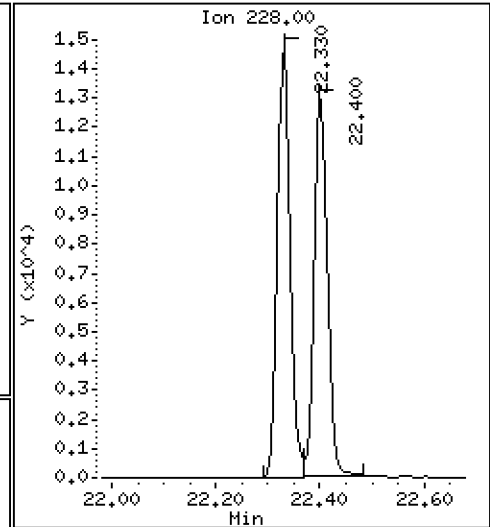
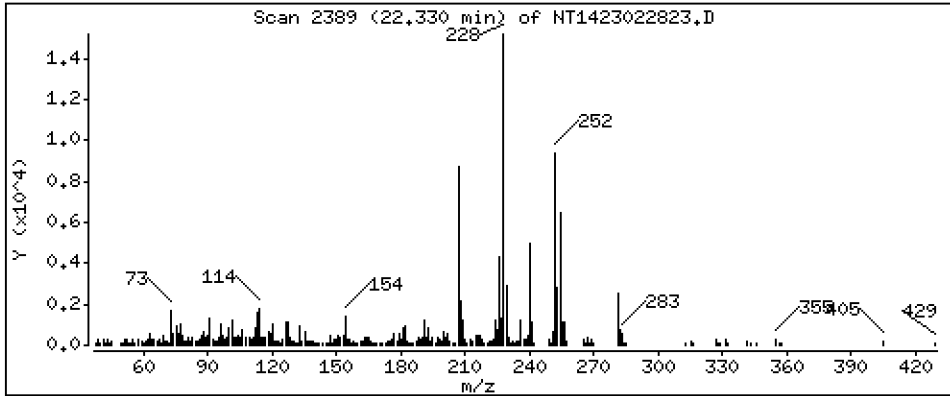
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 0.2215 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

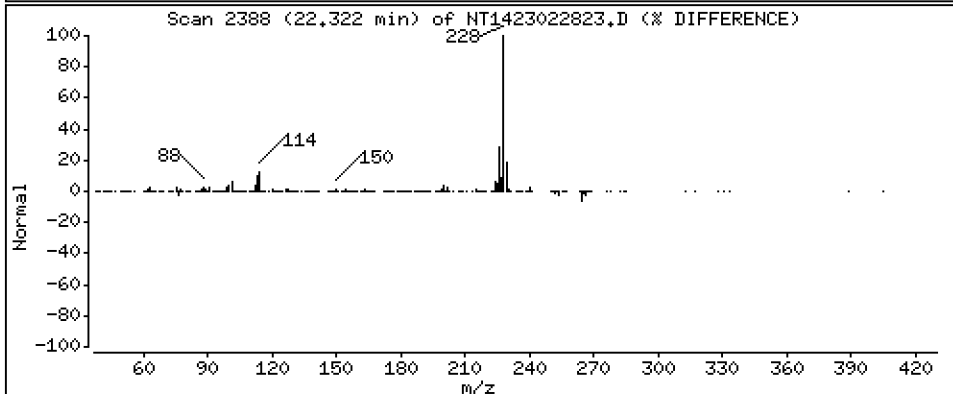
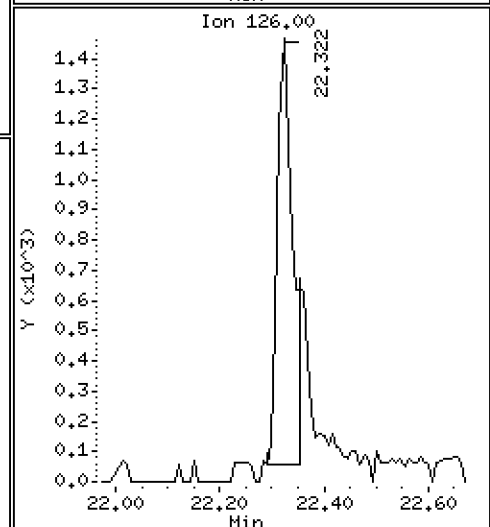
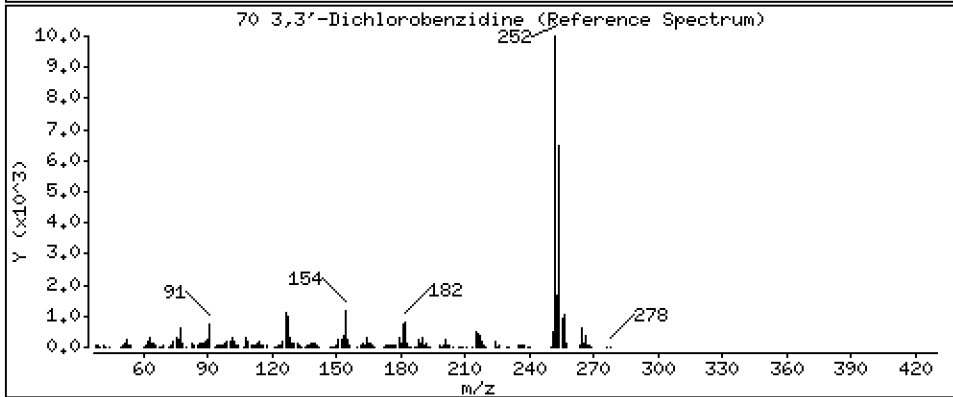
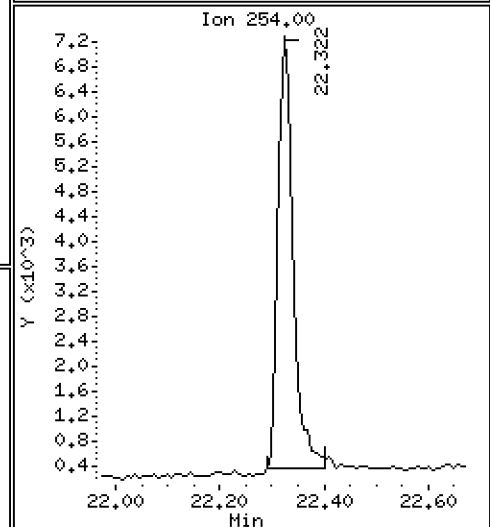
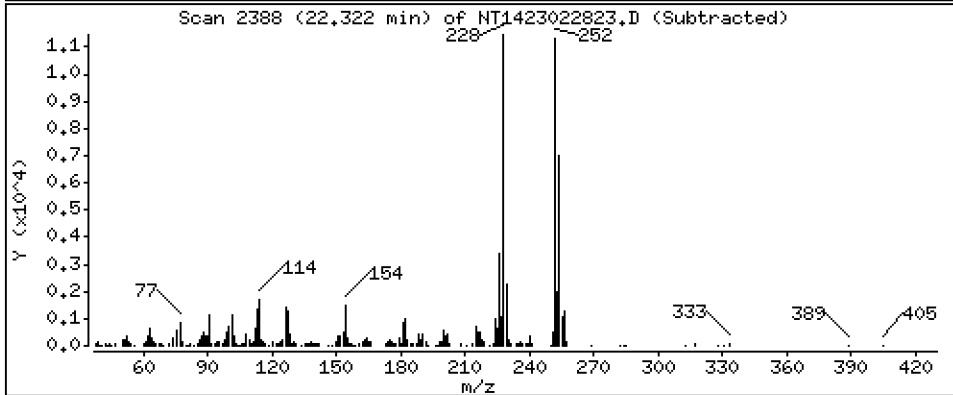
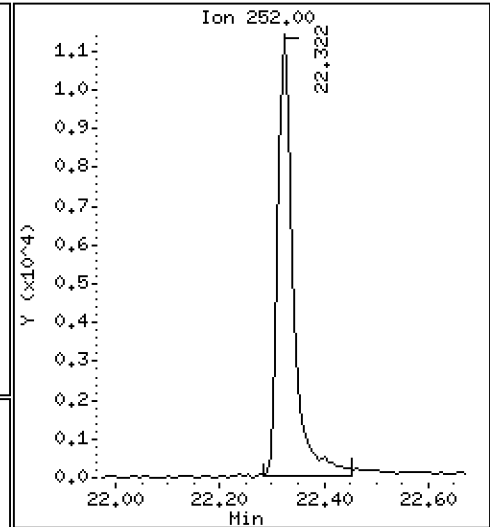
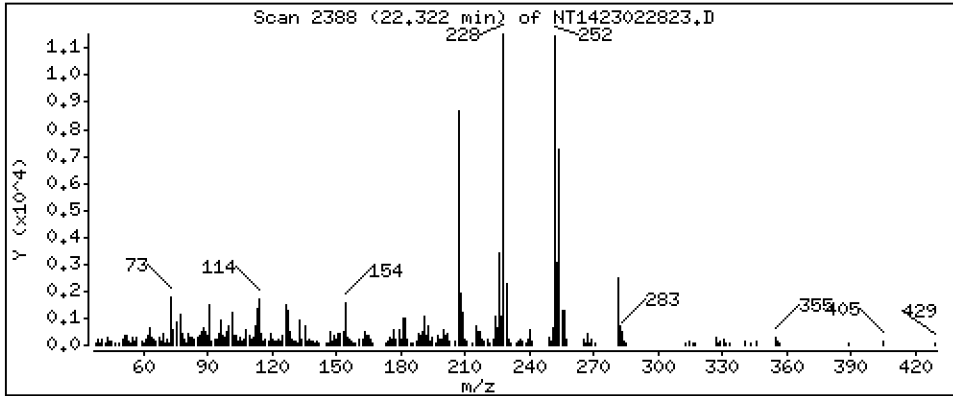
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,7330 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

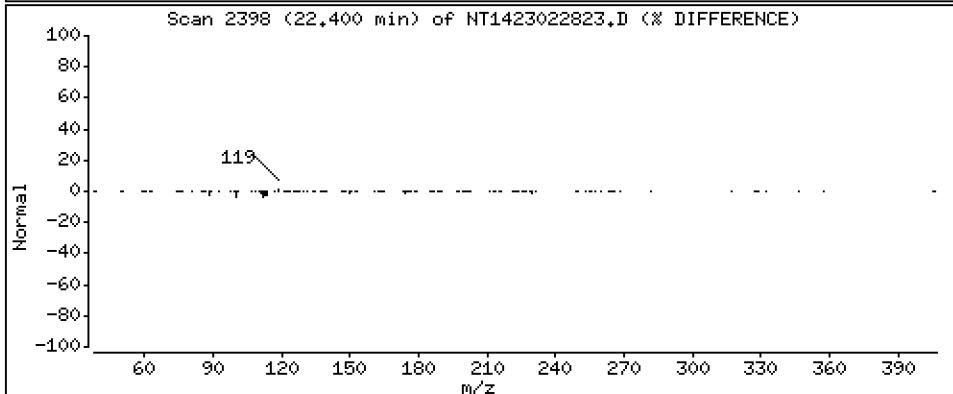
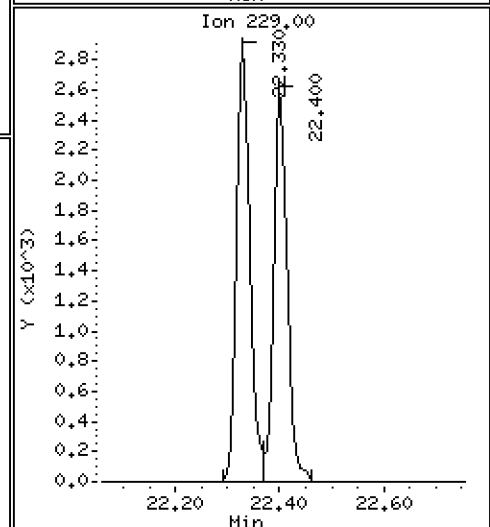
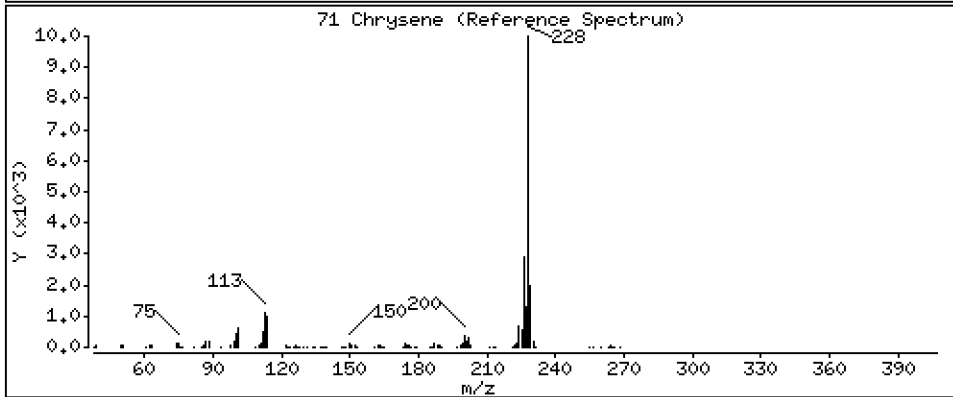
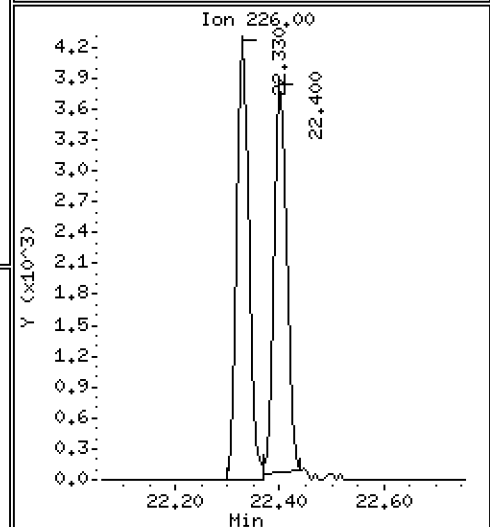
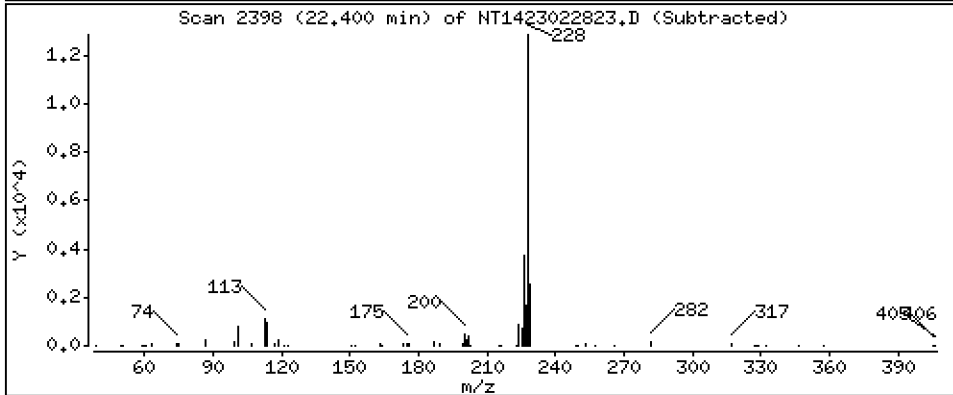
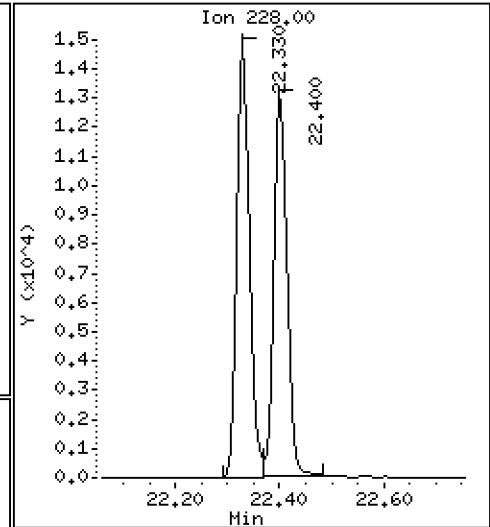
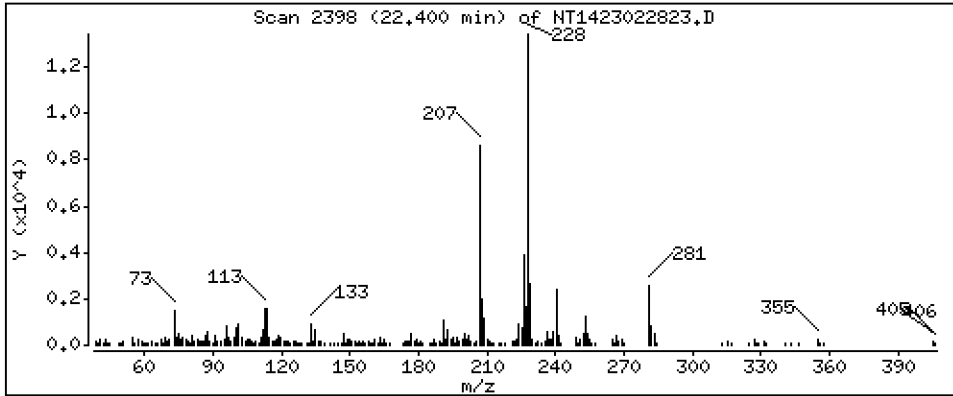
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2153 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

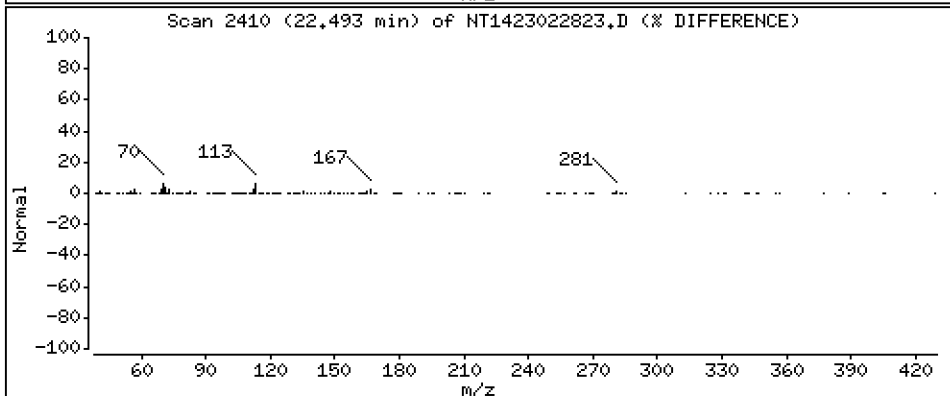
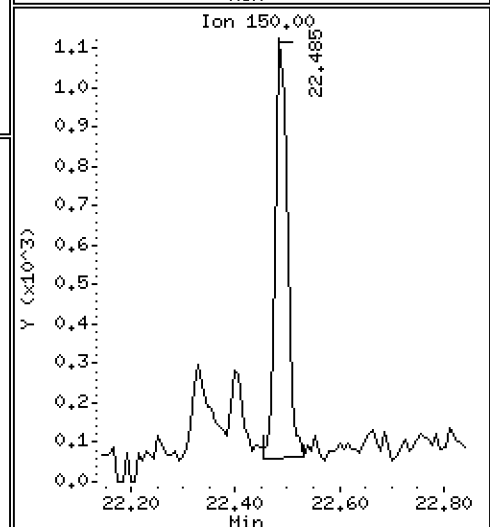
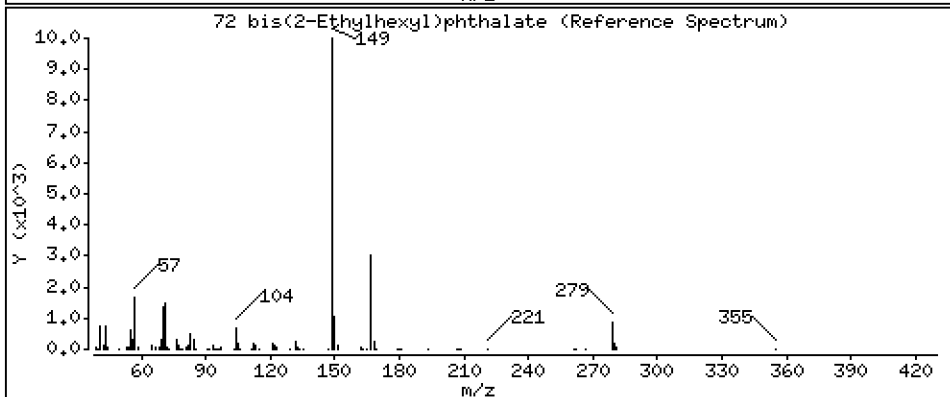
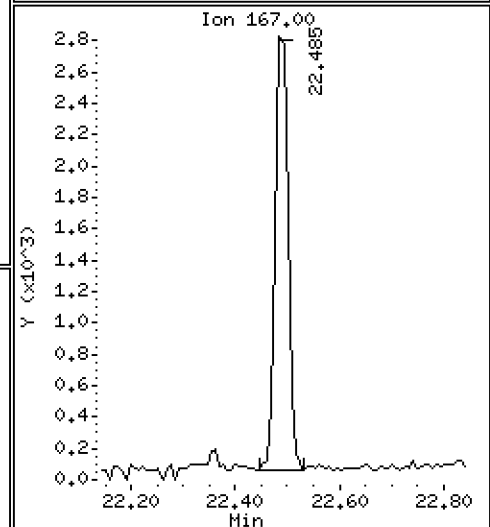
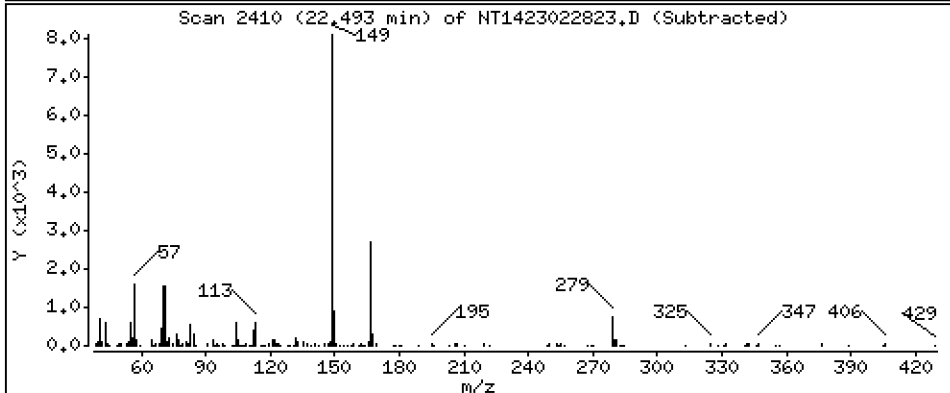
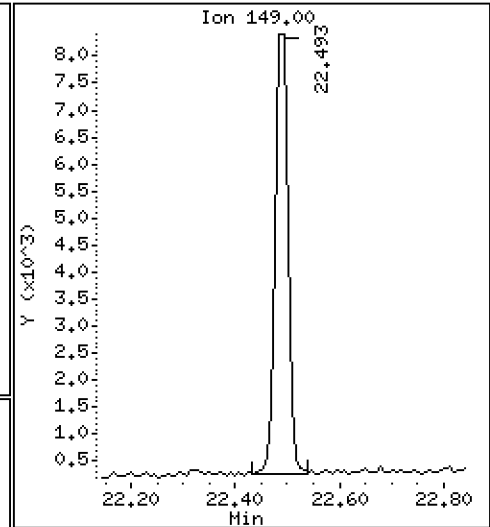
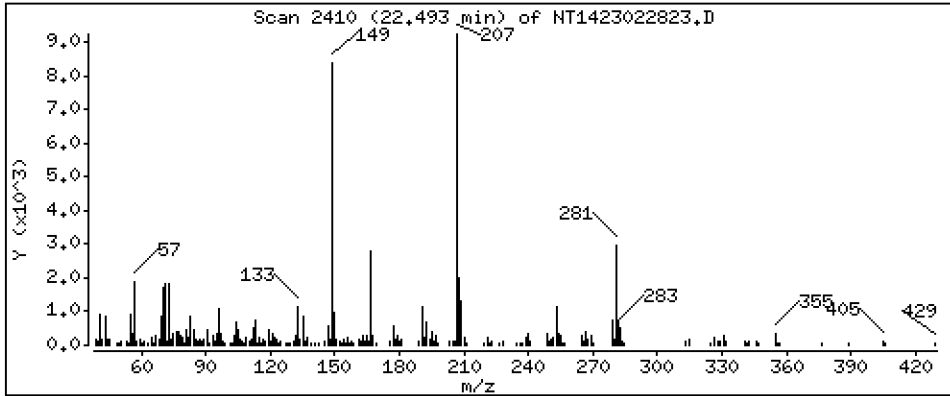
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,1802 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

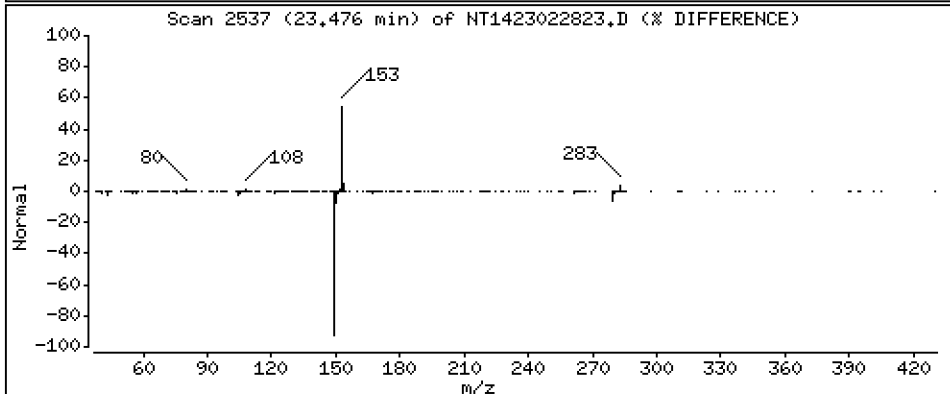
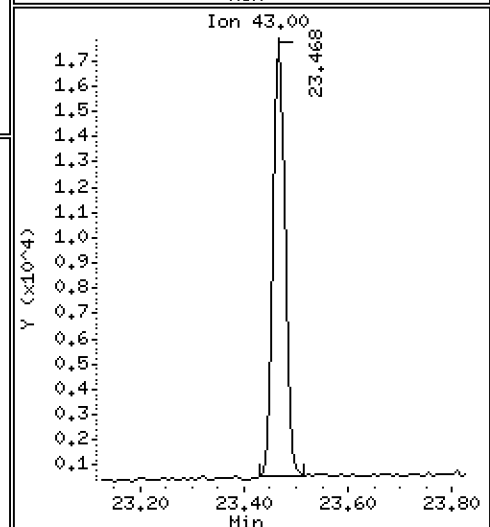
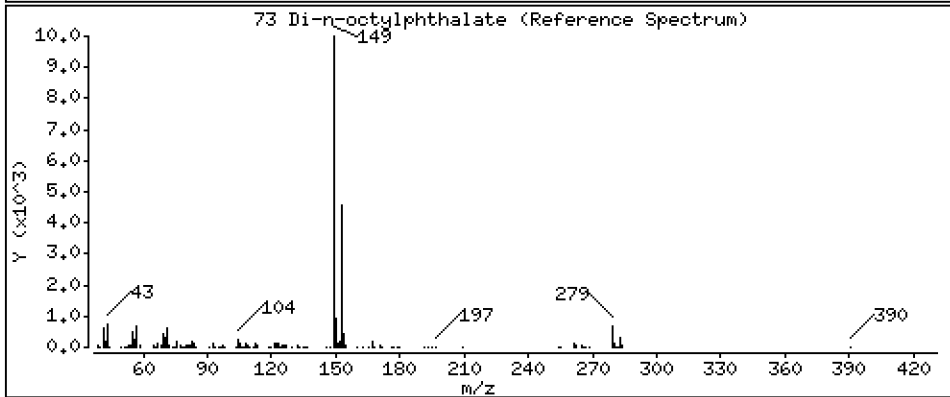
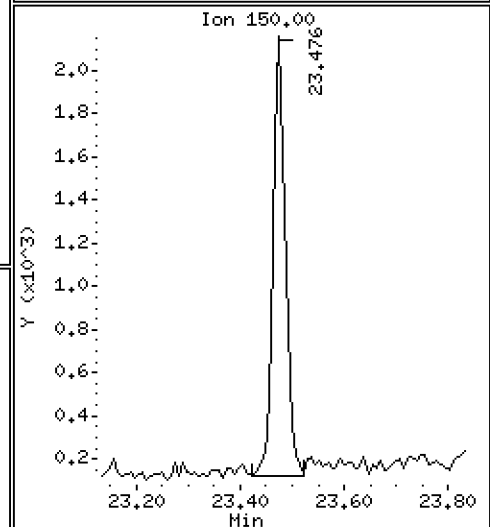
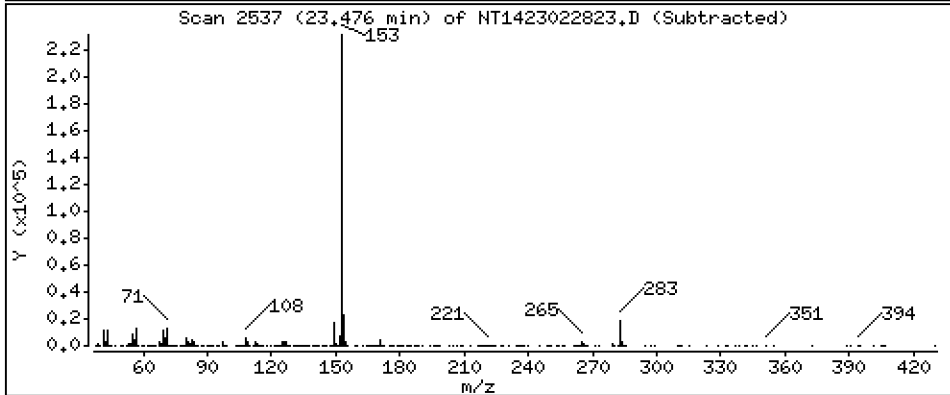
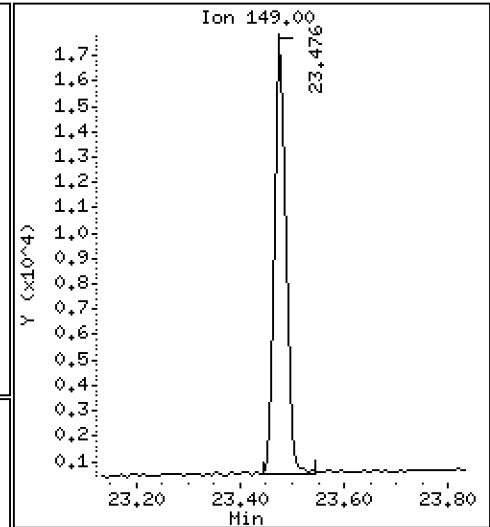
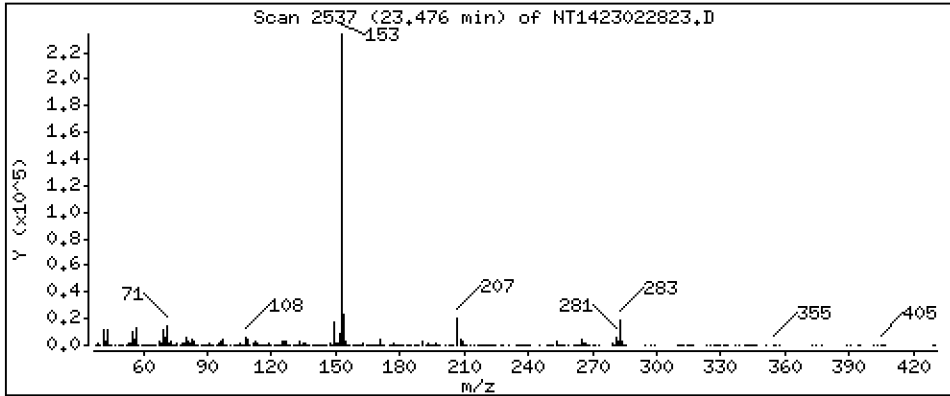
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2023 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

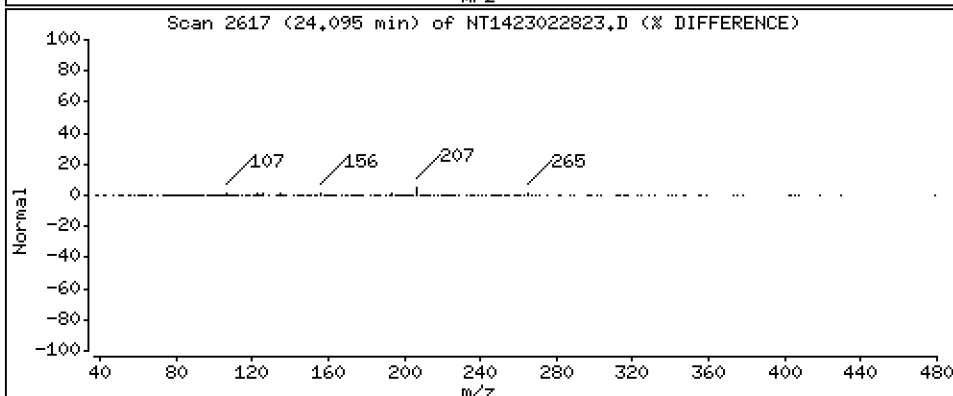
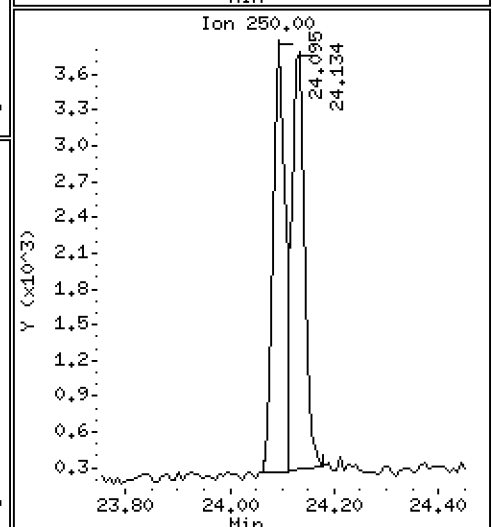
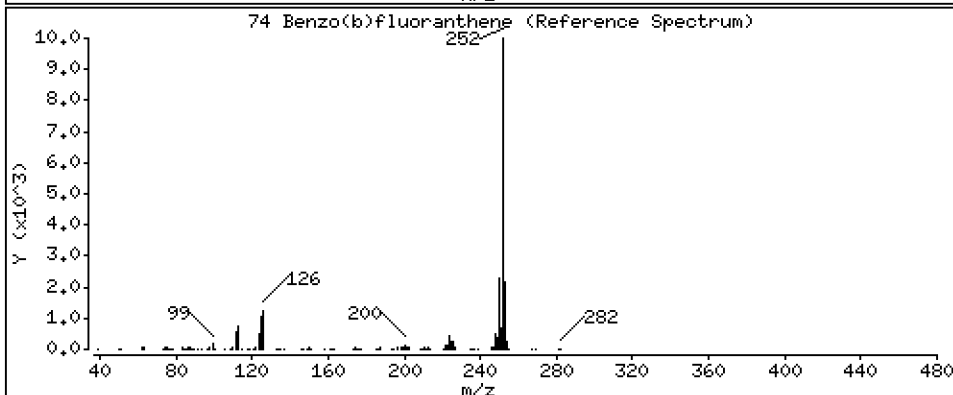
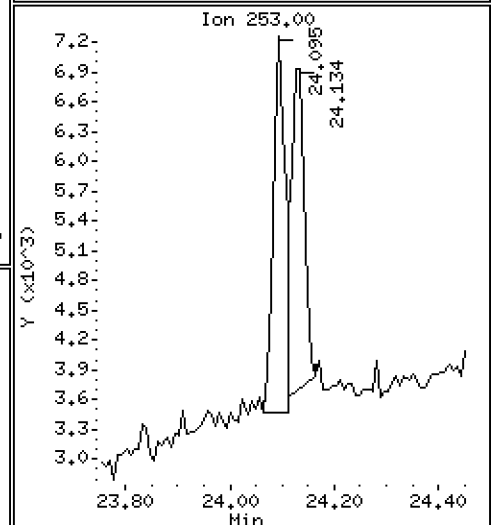
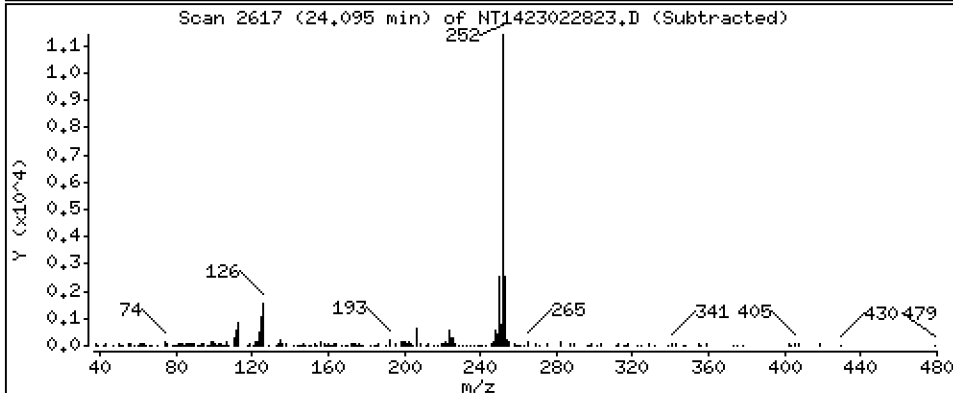
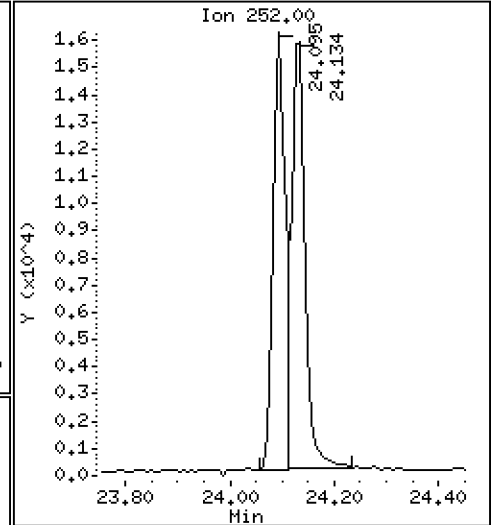
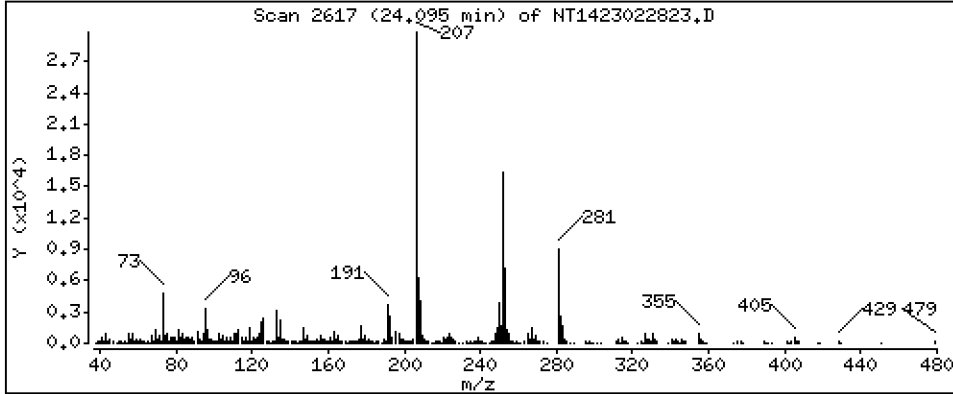
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,1956 ug/mL





Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

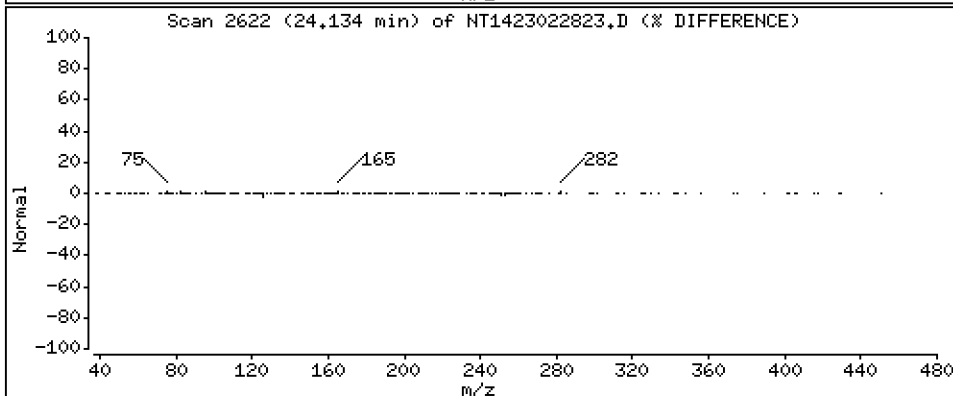
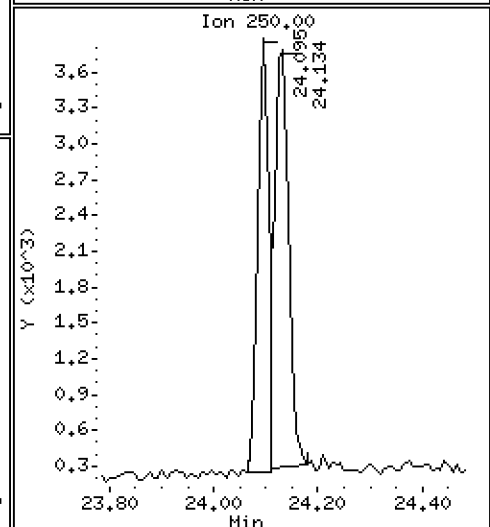
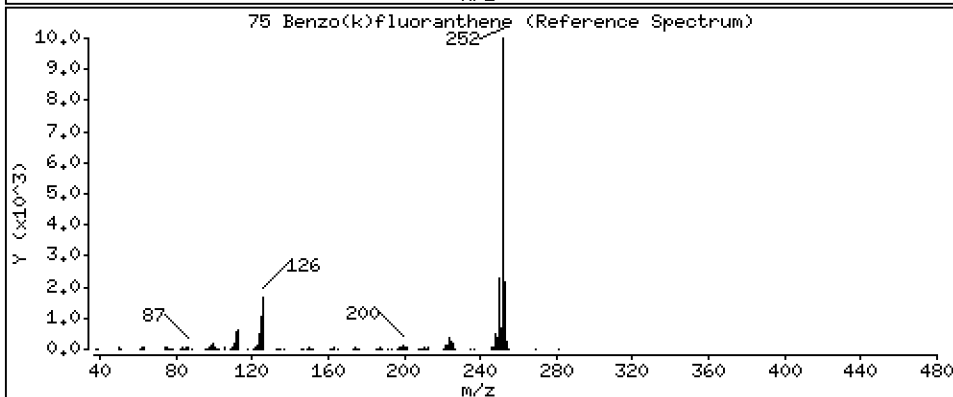
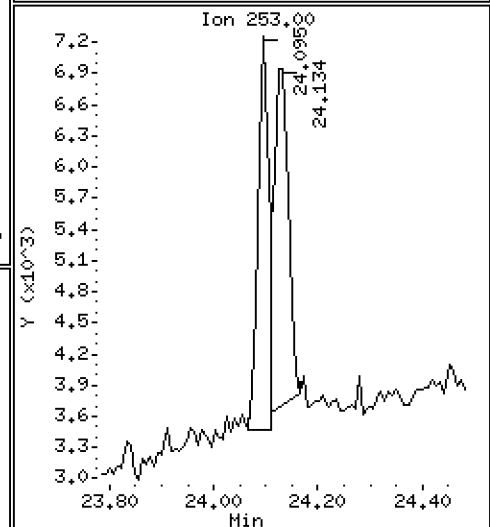
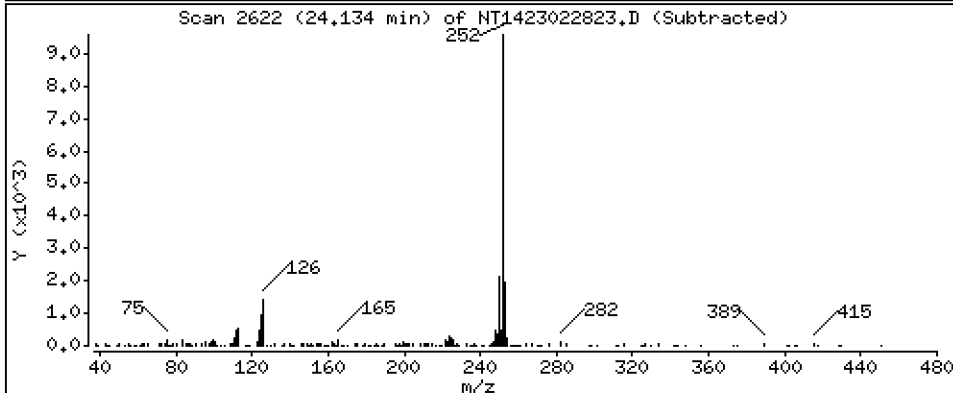
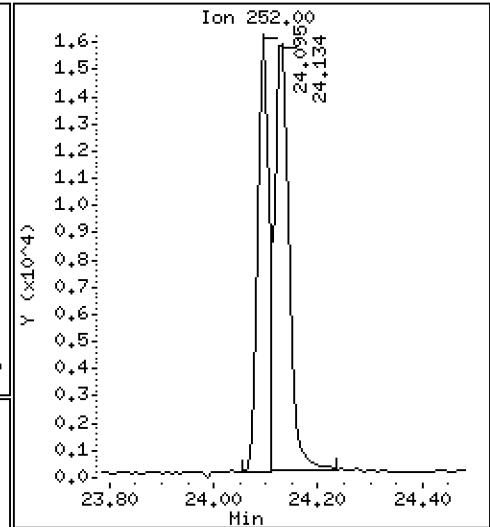
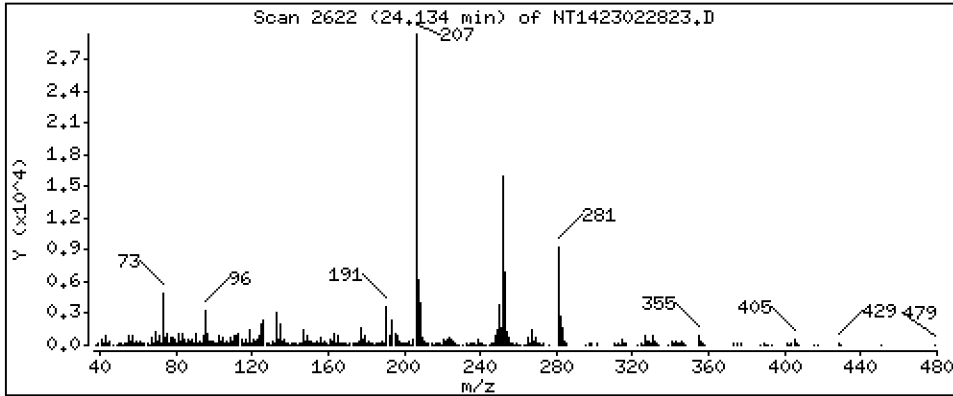
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2209 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

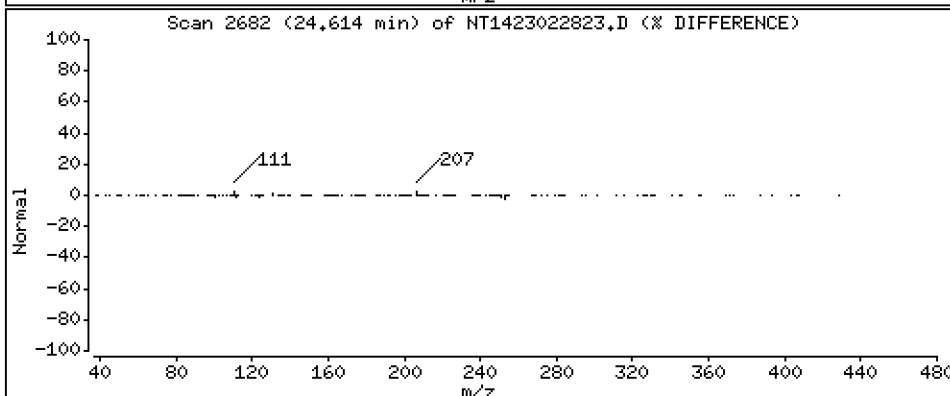
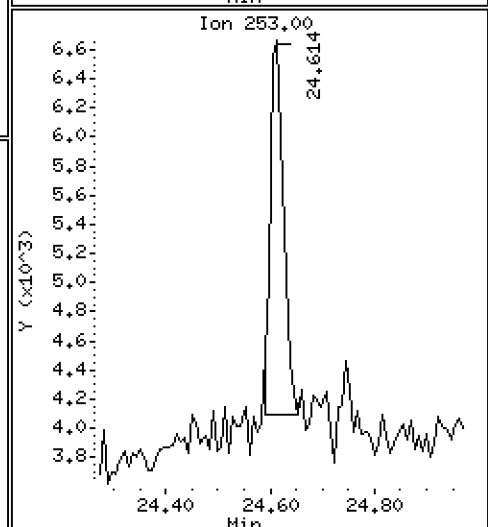
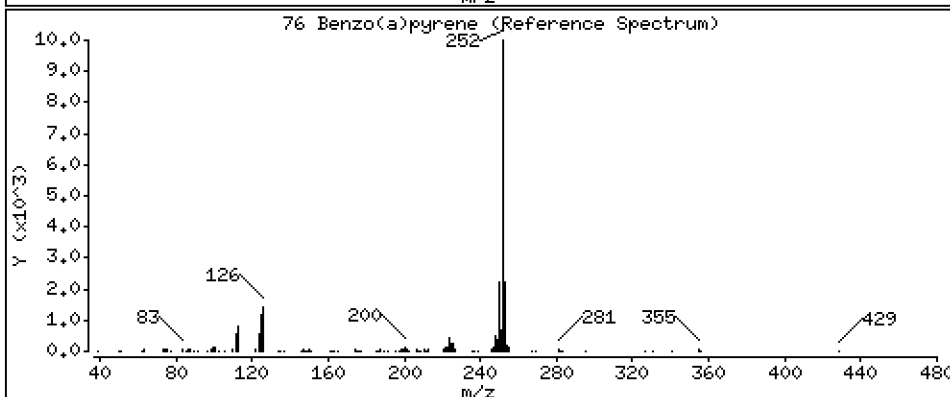
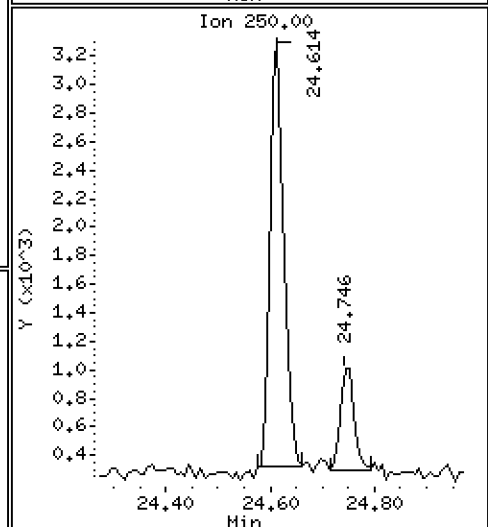
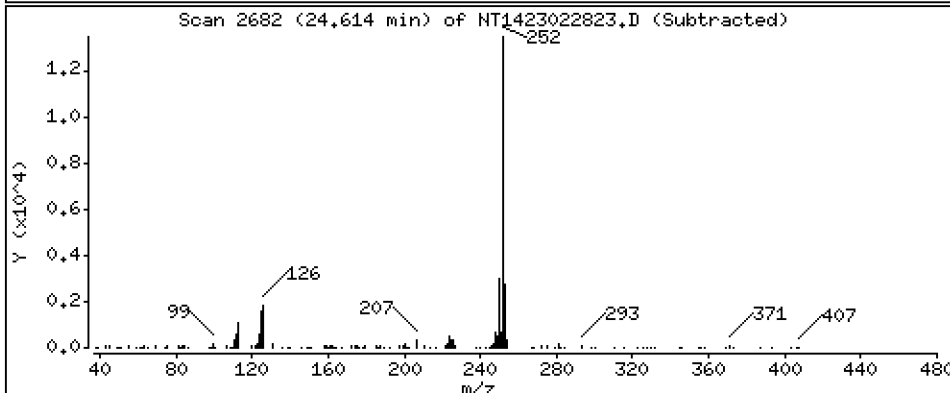
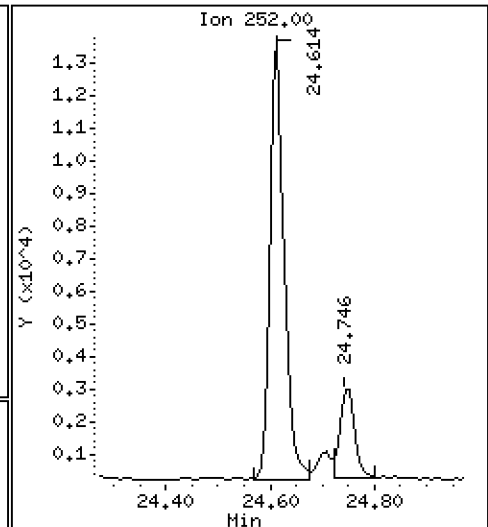
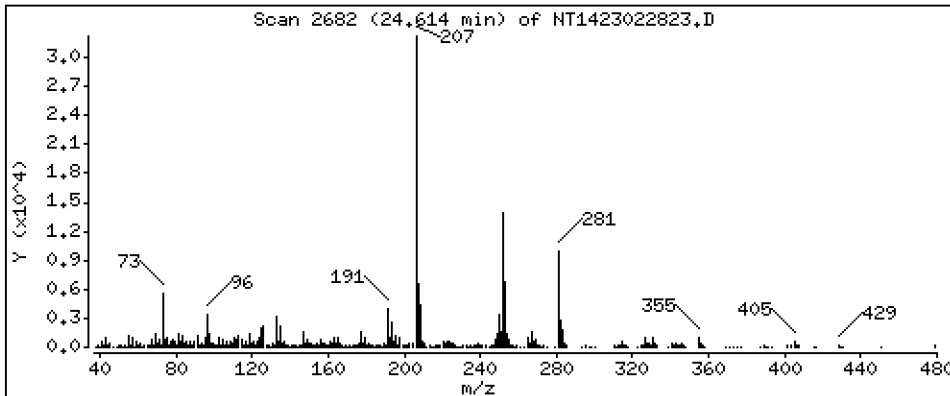
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2207 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

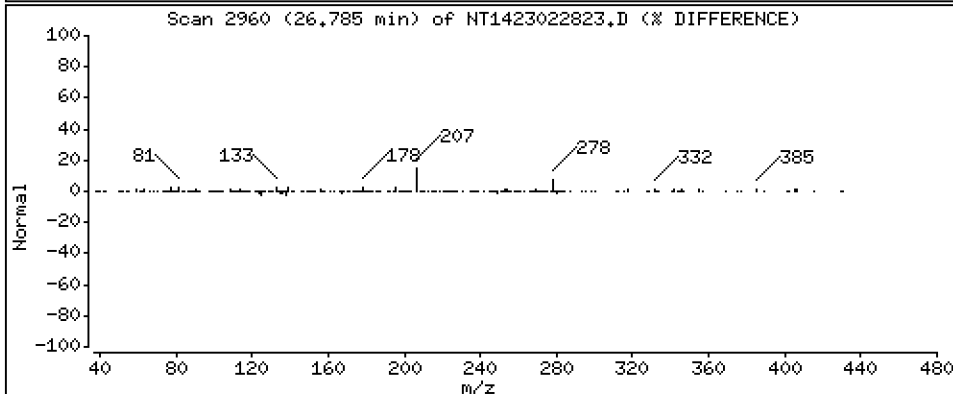
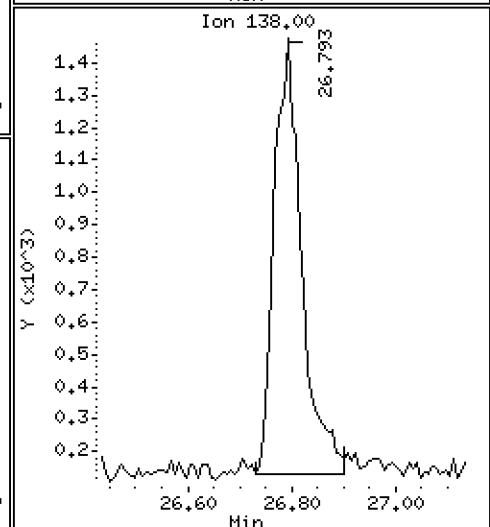
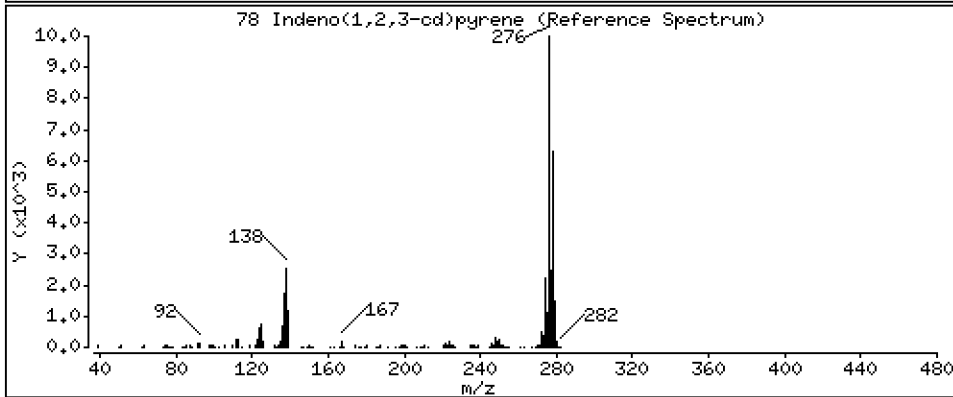
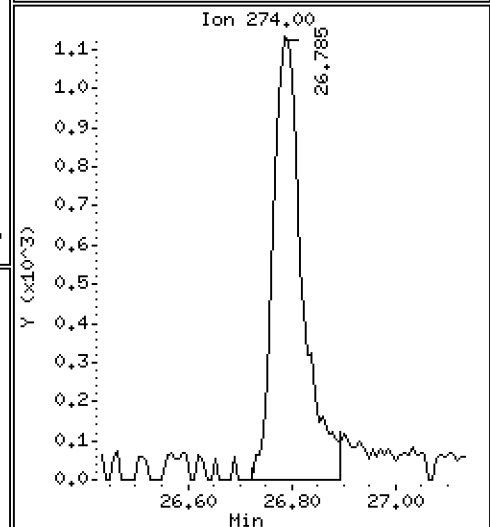
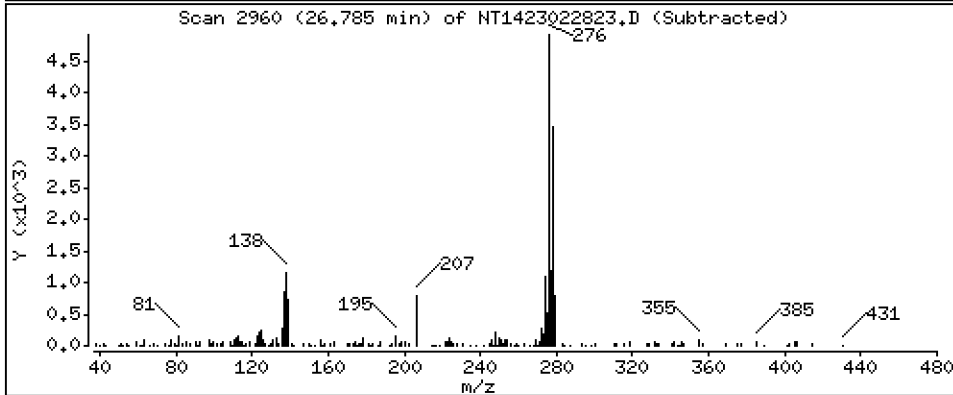
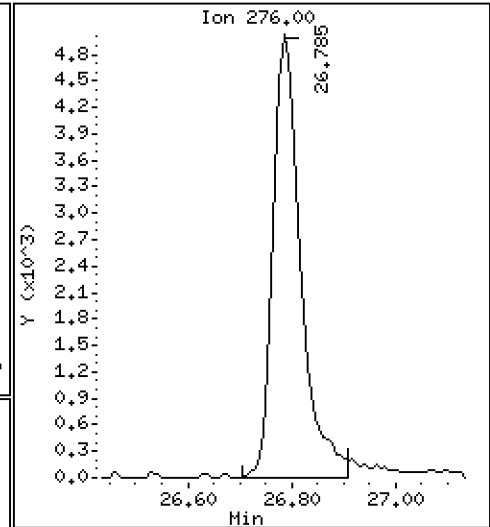
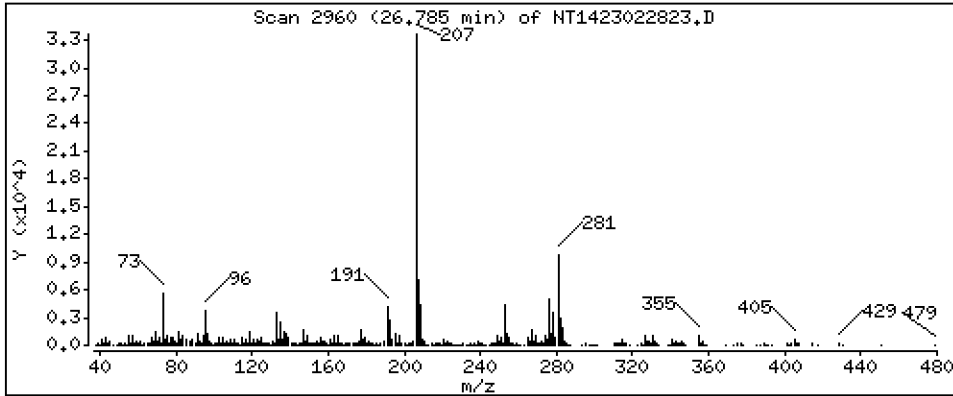
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,1309 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

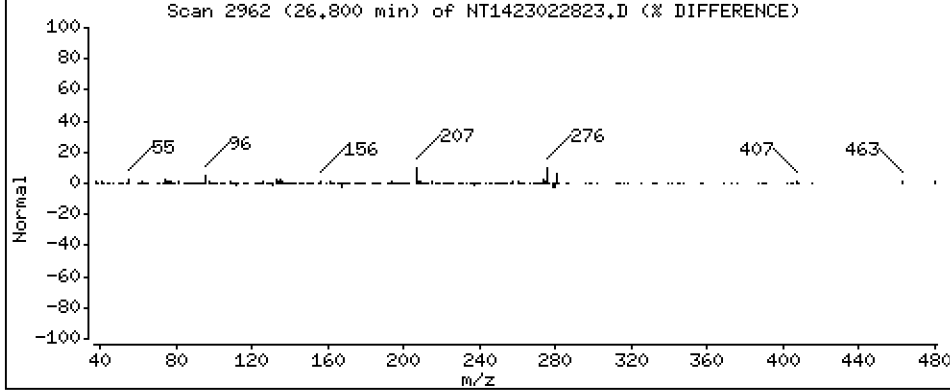
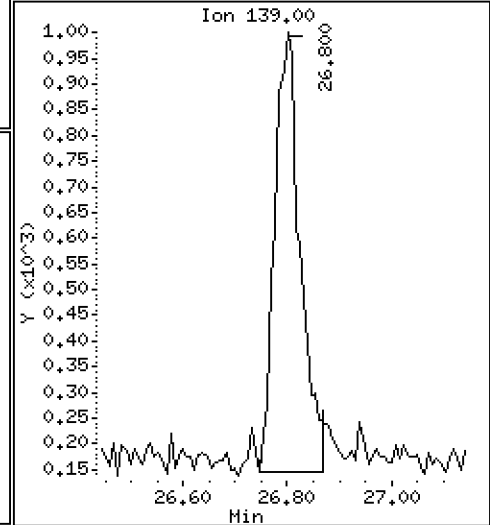
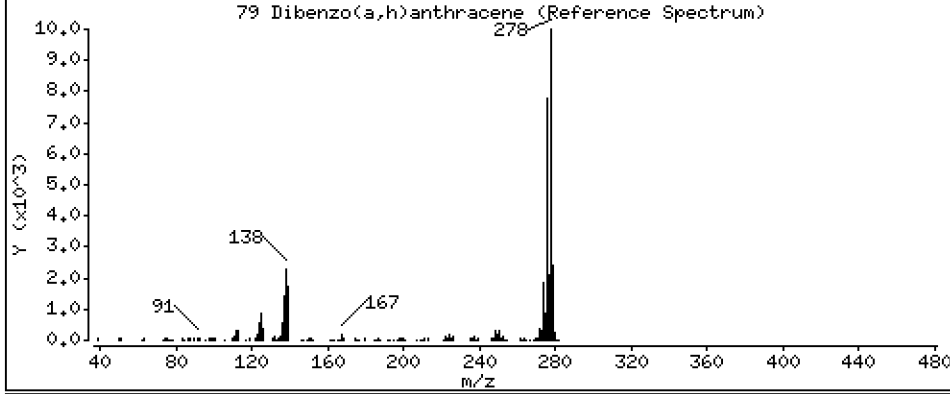
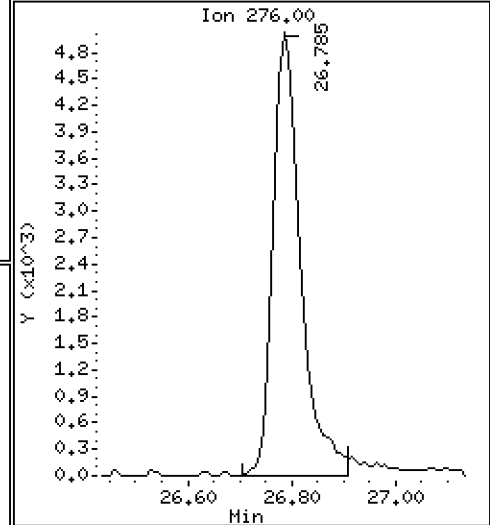
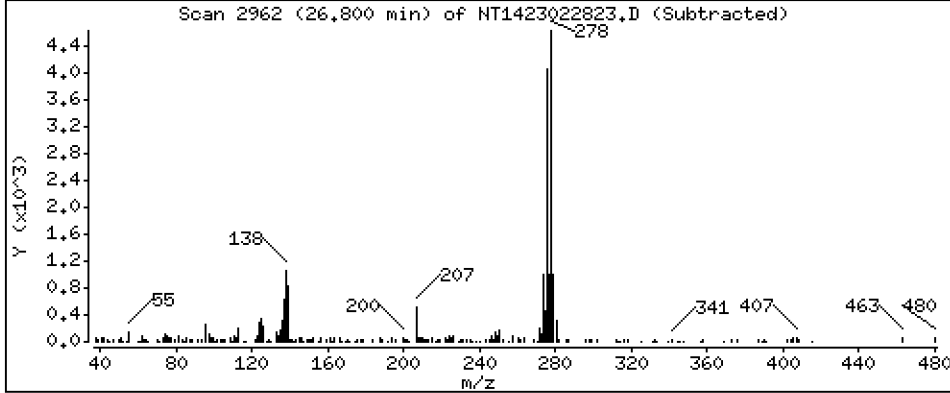
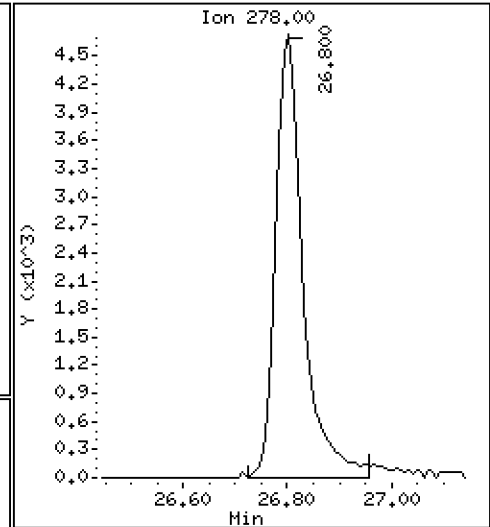
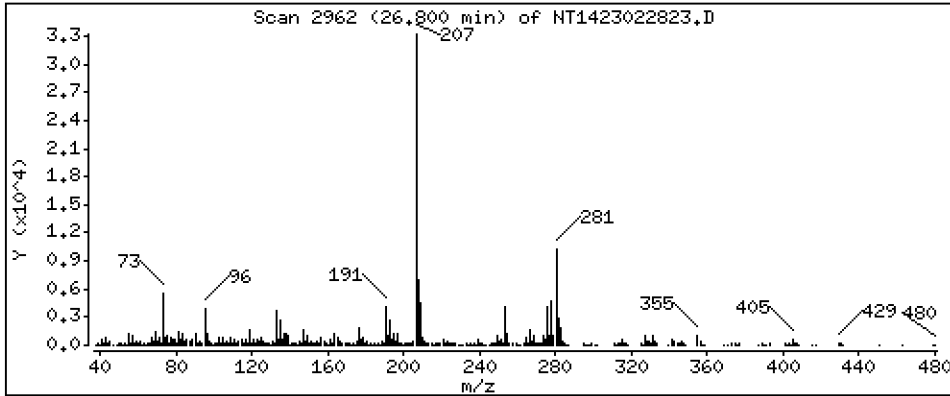
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1429 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

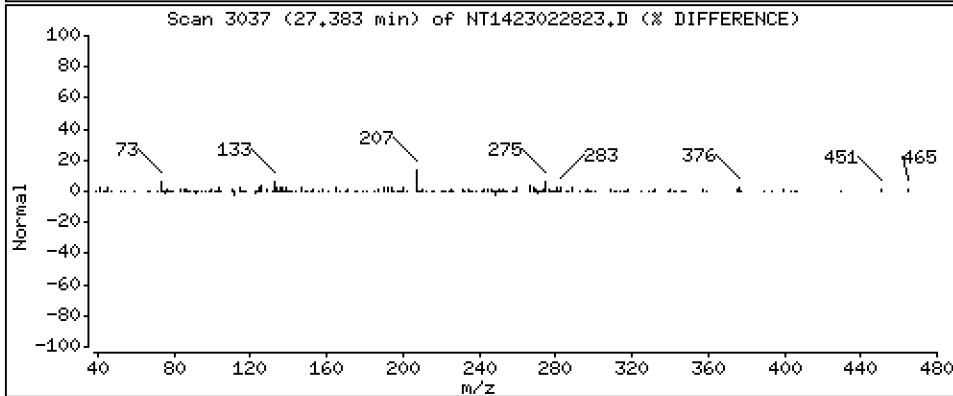
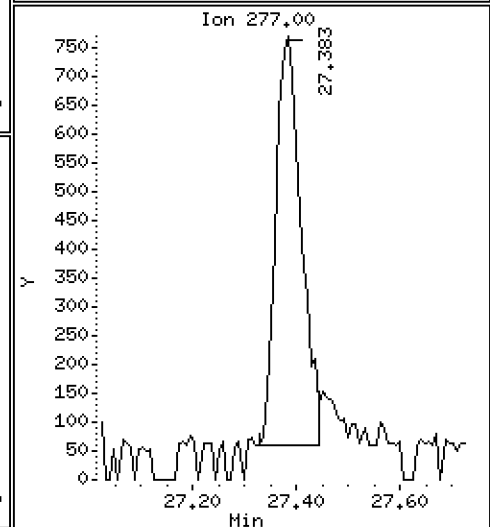
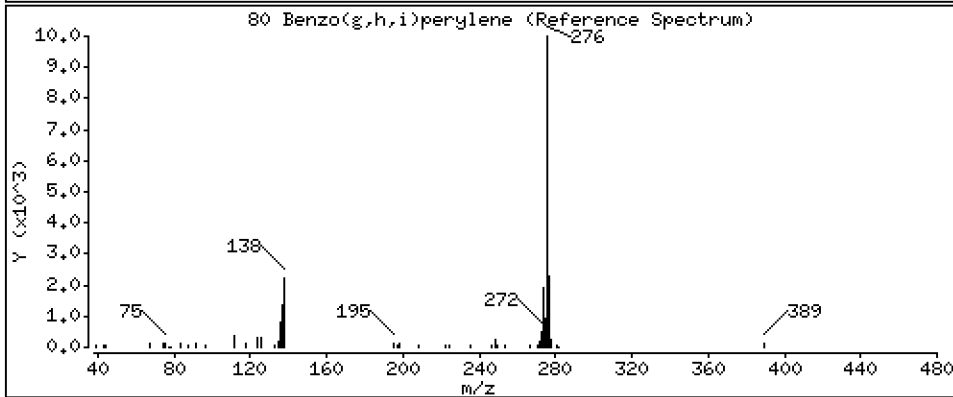
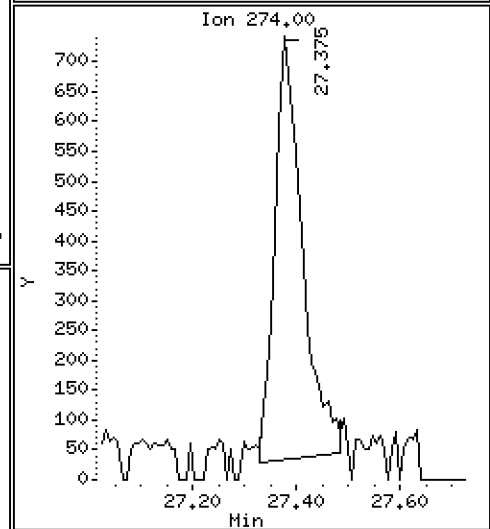
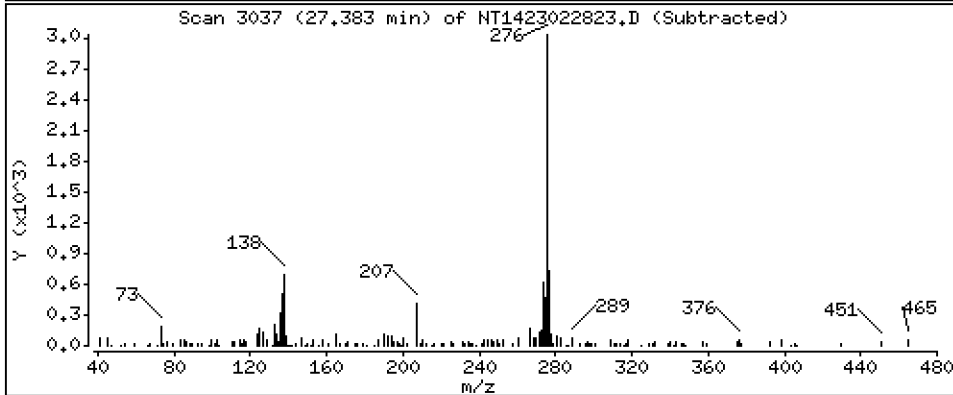
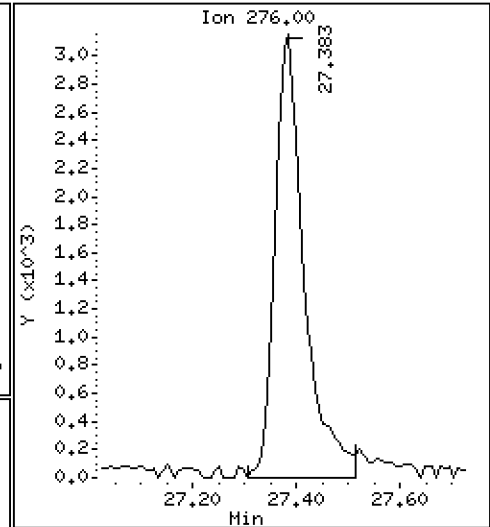
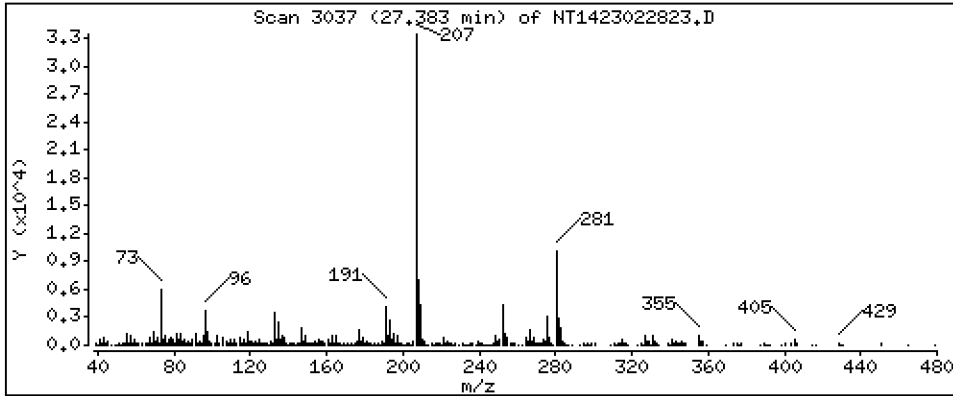
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,09952 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

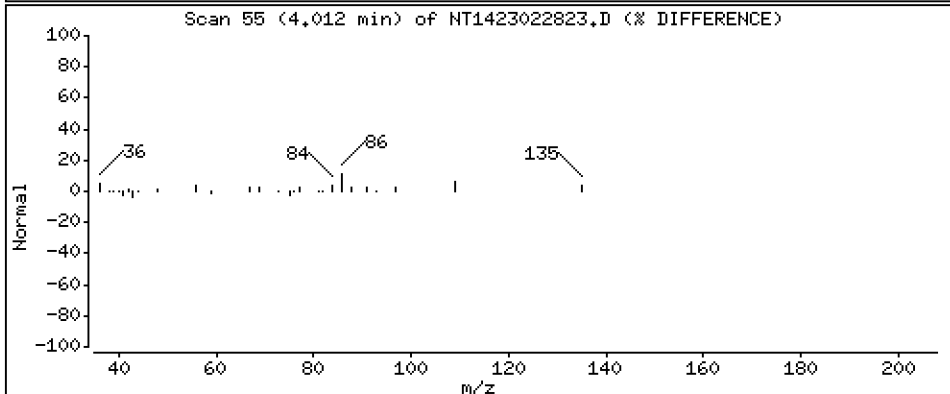
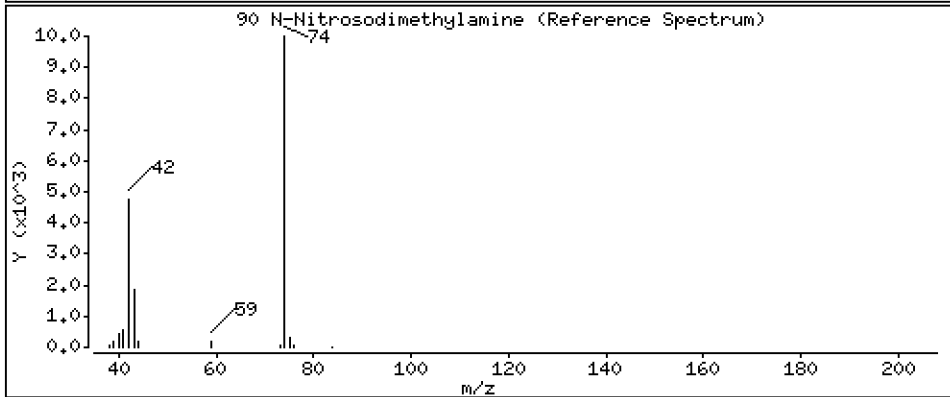
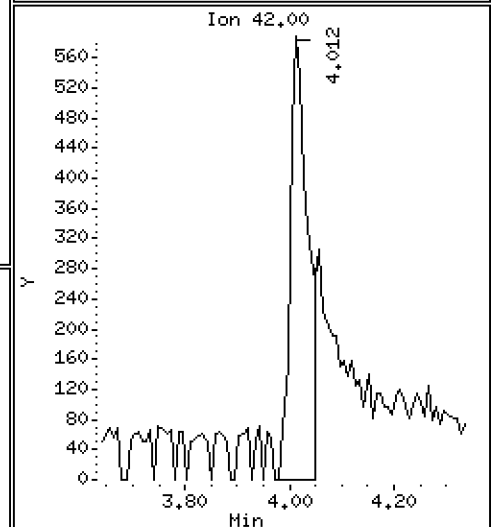
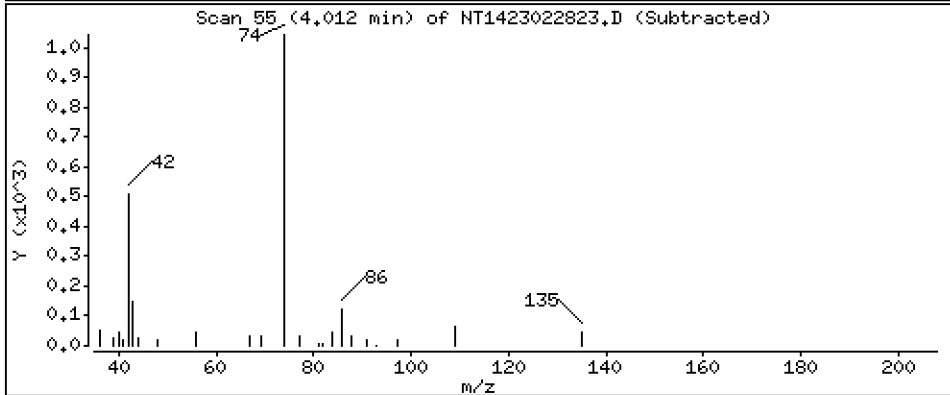
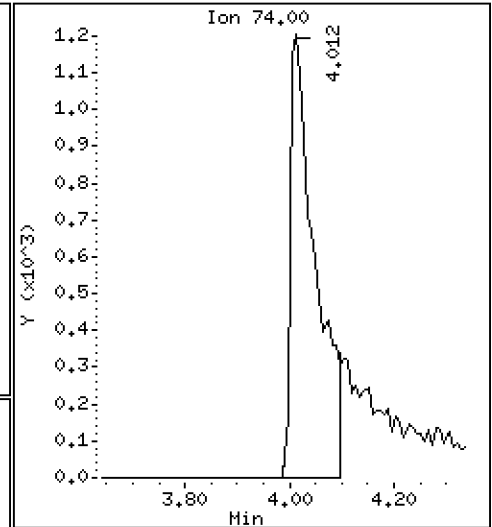
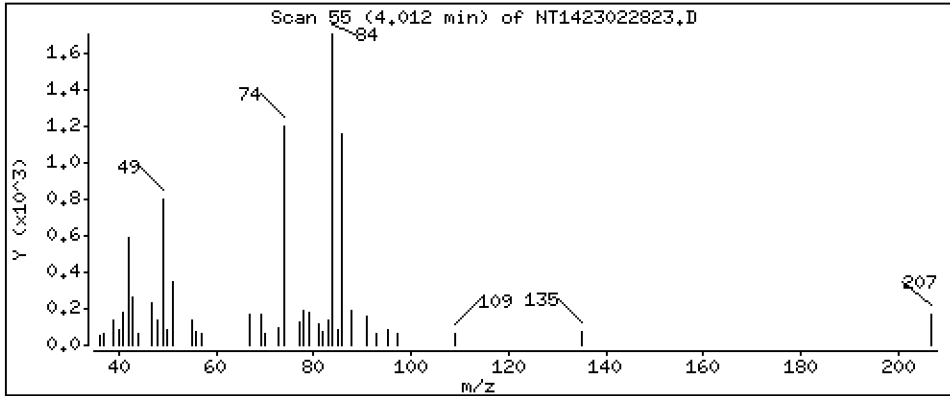
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,1735 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

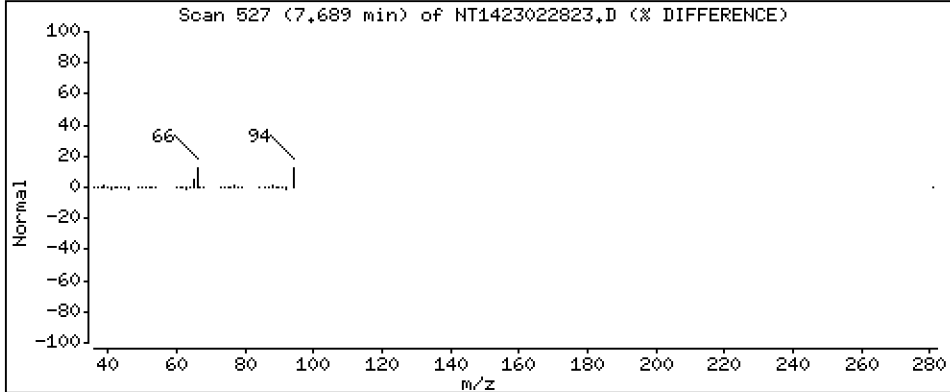
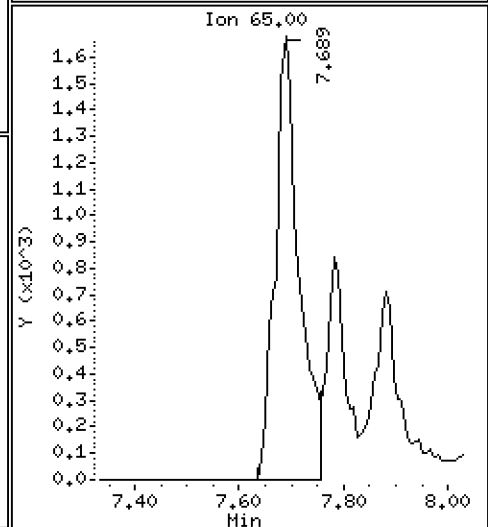
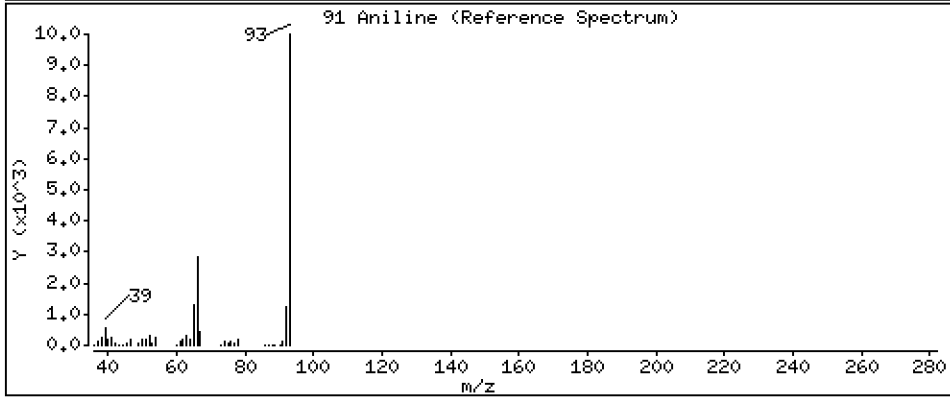
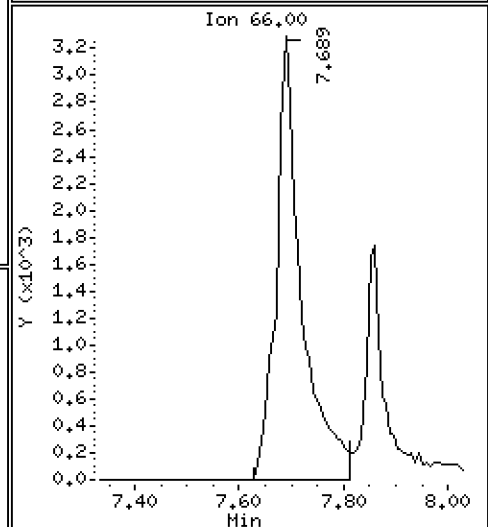
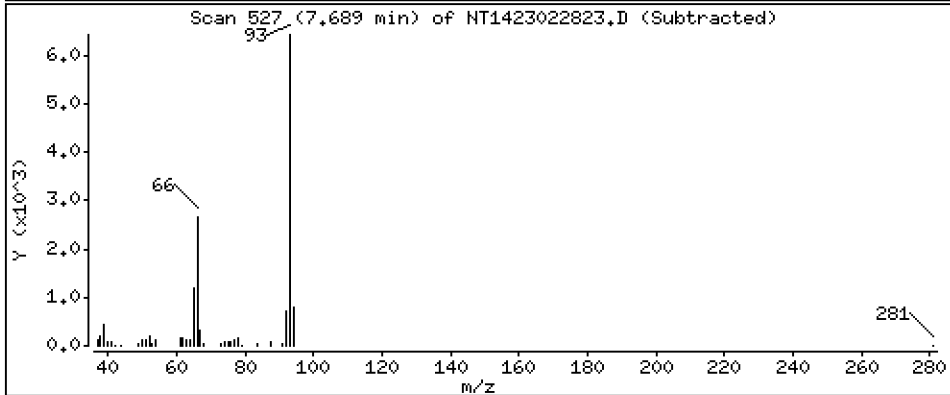
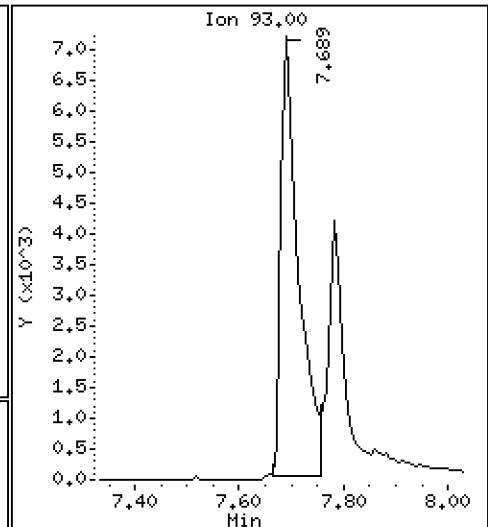
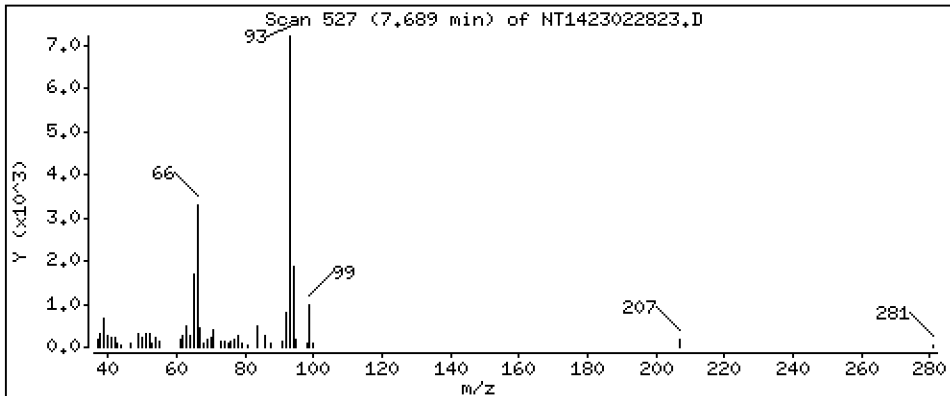
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.3051 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

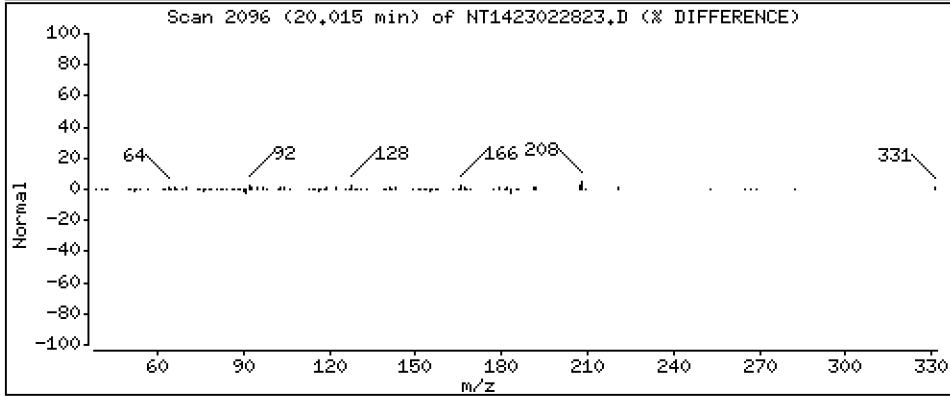
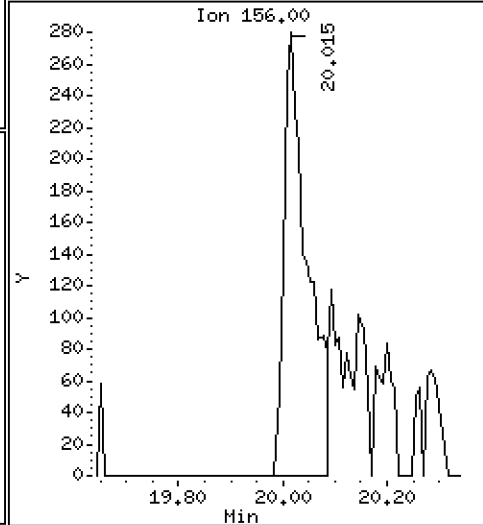
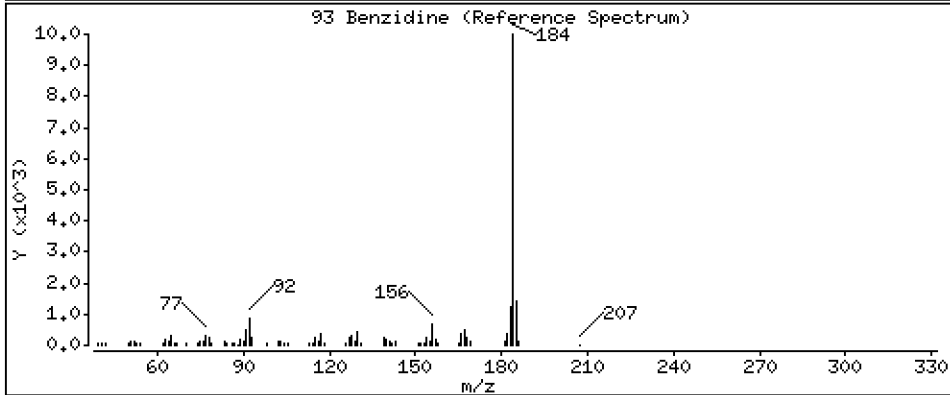
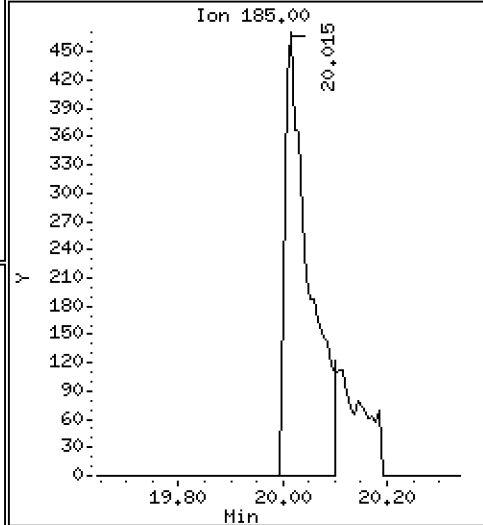
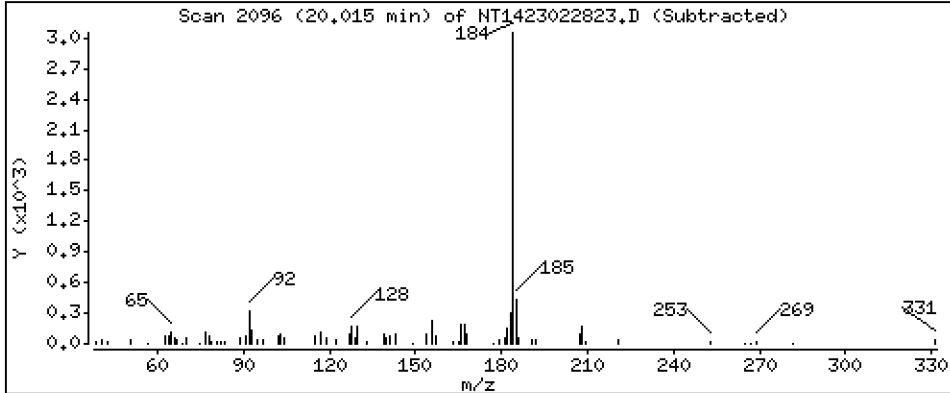
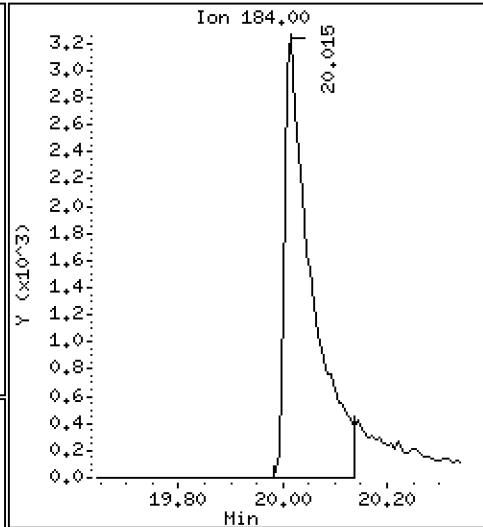
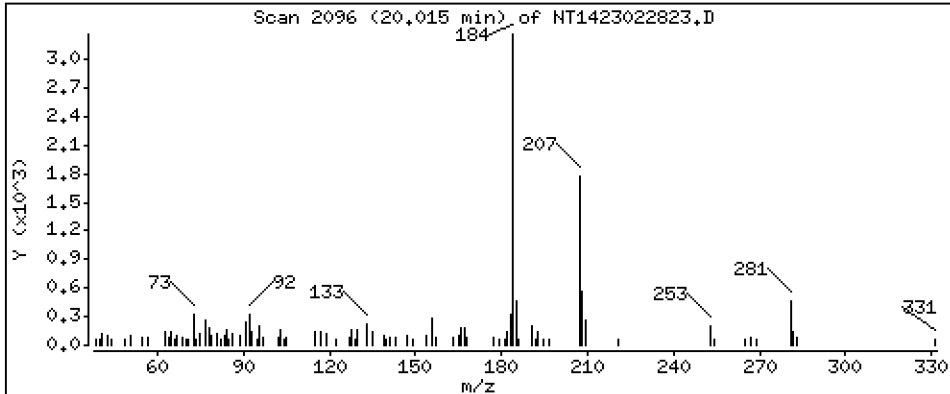
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,2301 ug/mL





Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

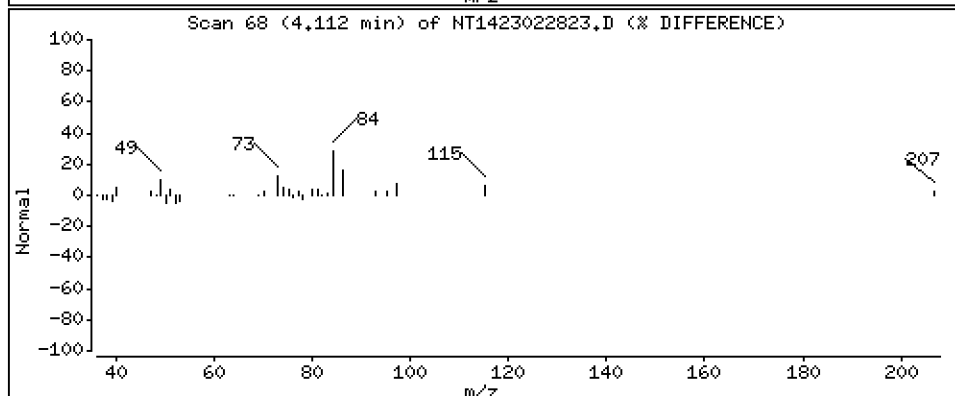
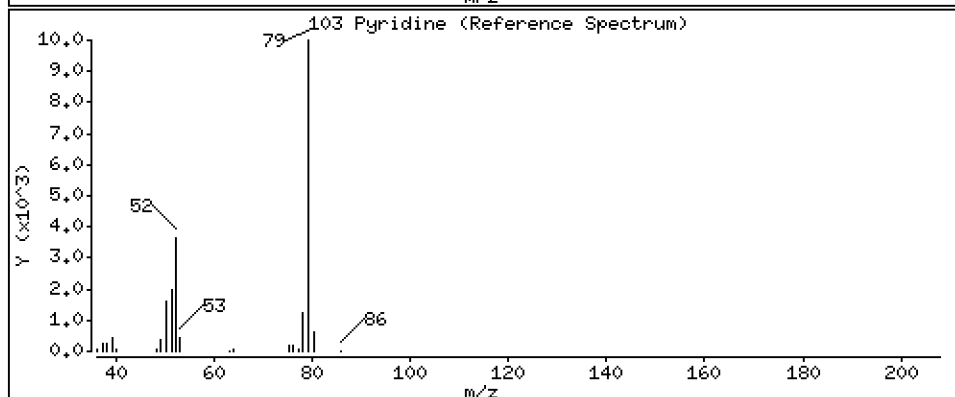
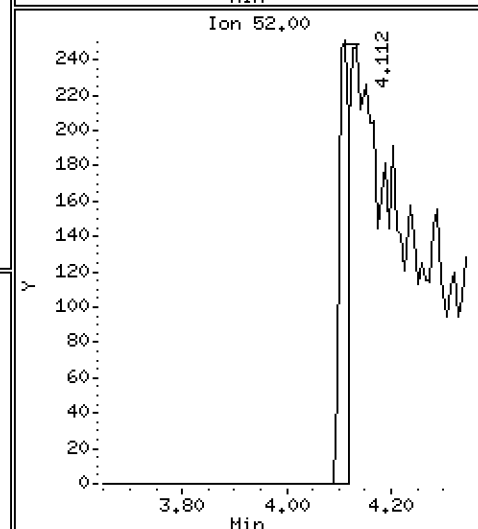
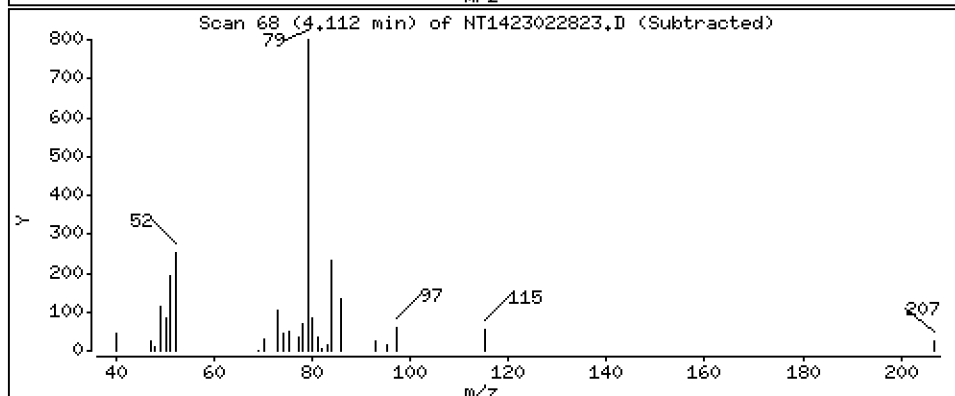
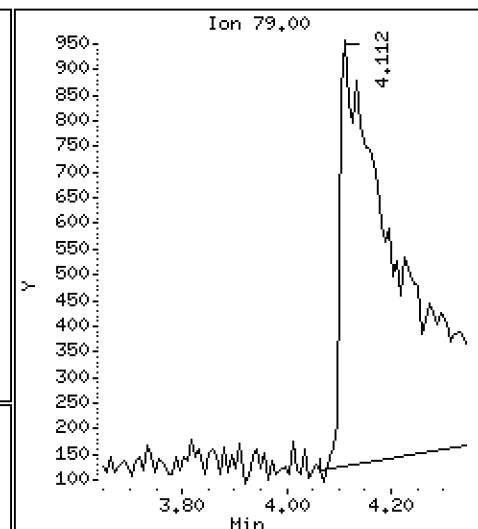
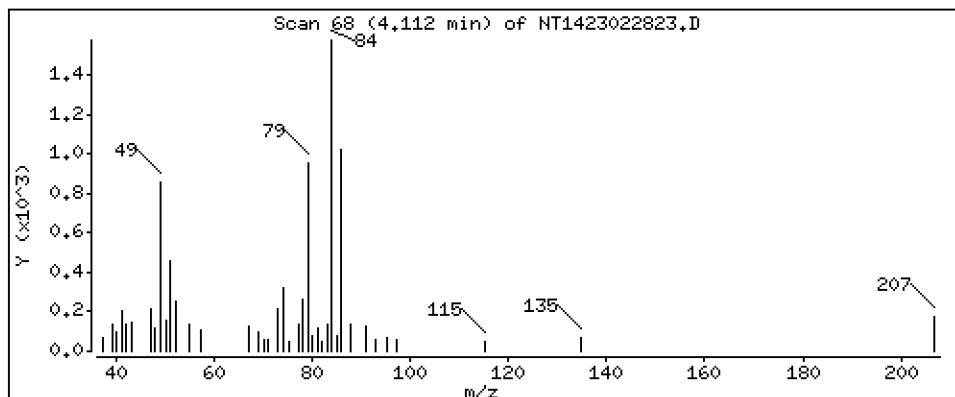
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,1253 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

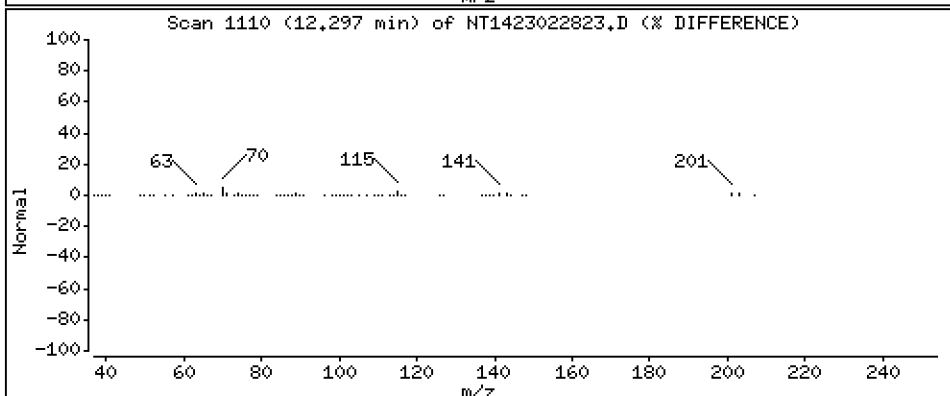
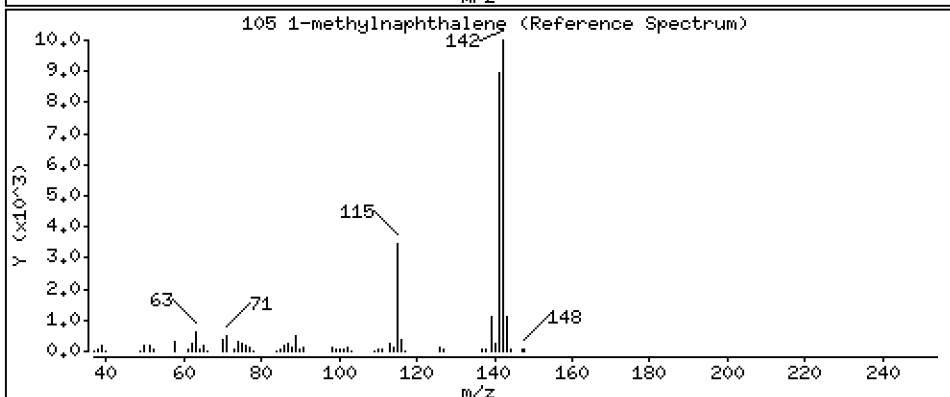
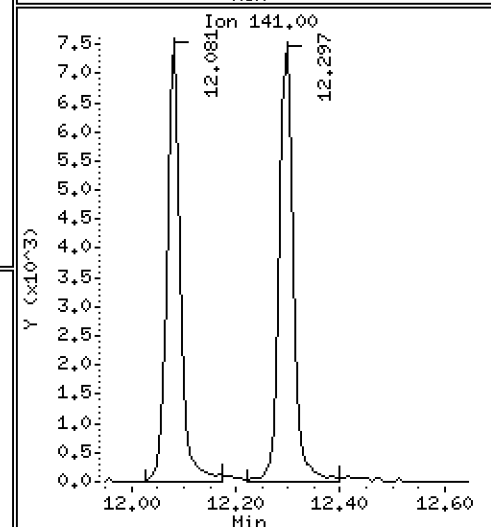
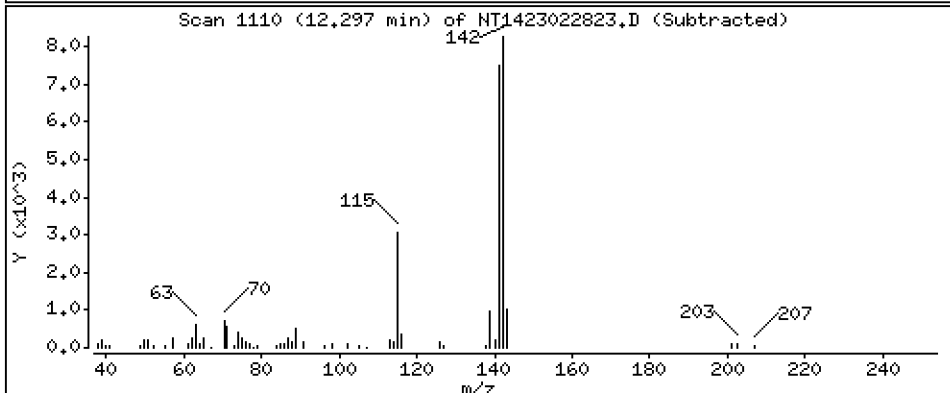
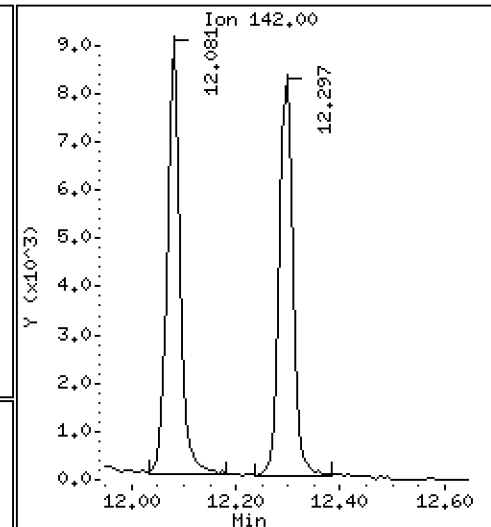
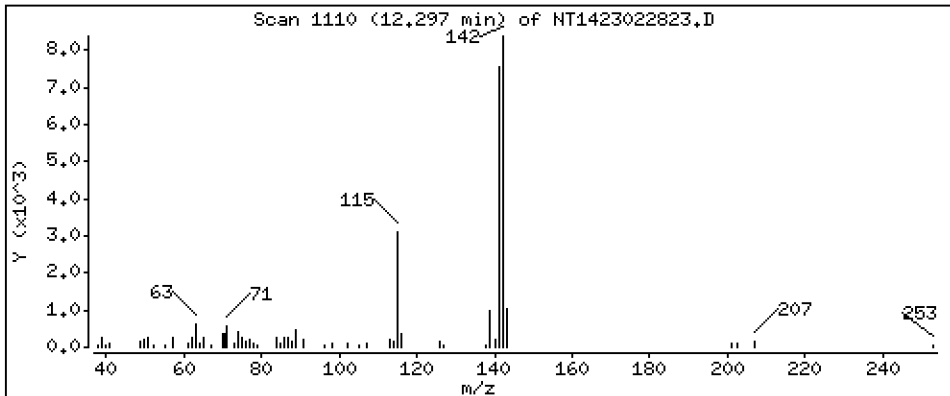
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,1951 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

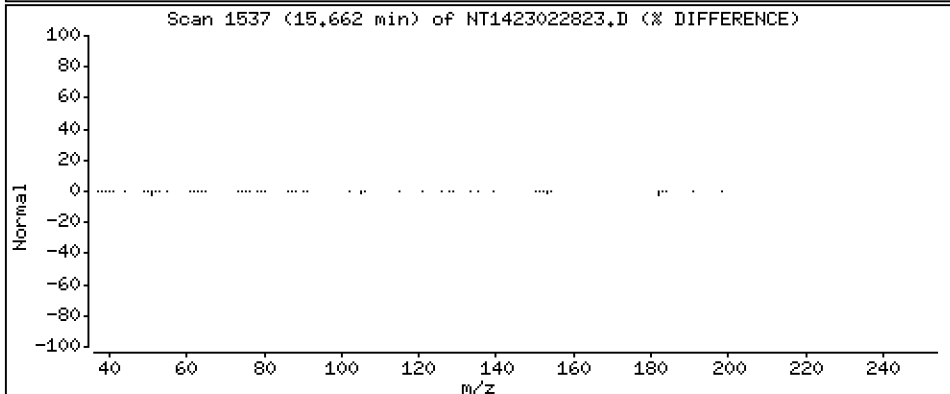
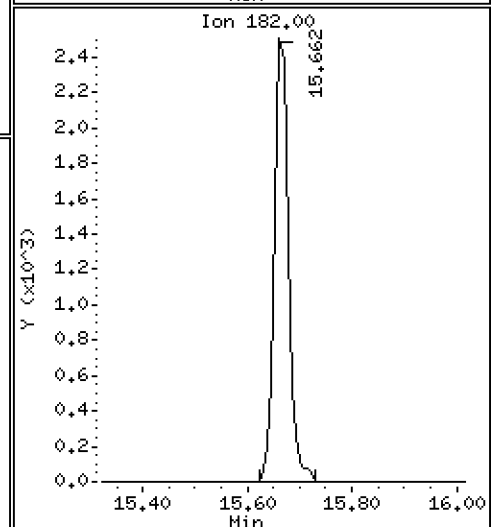
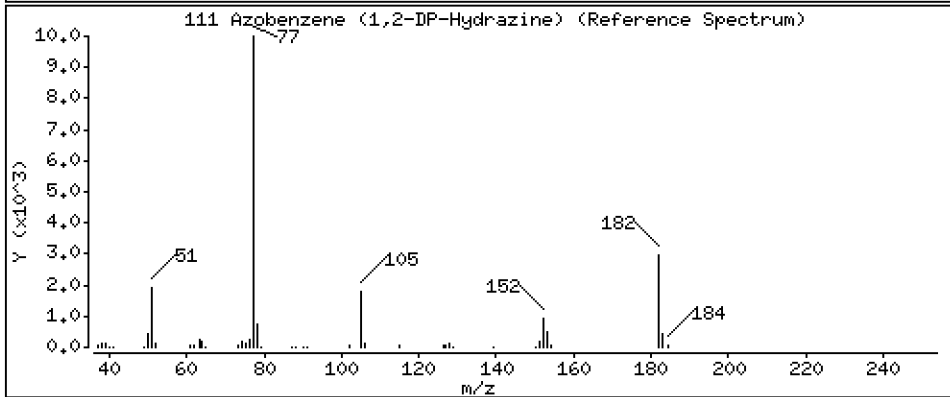
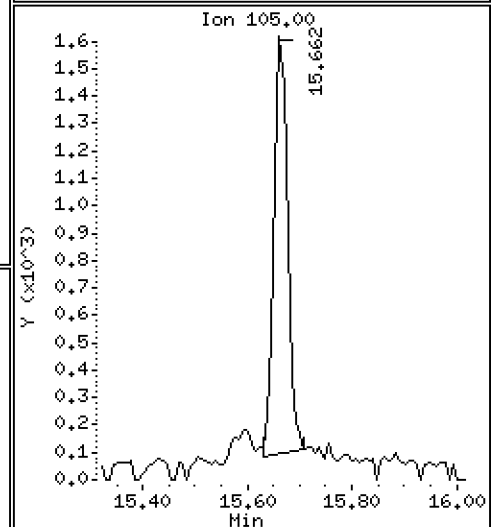
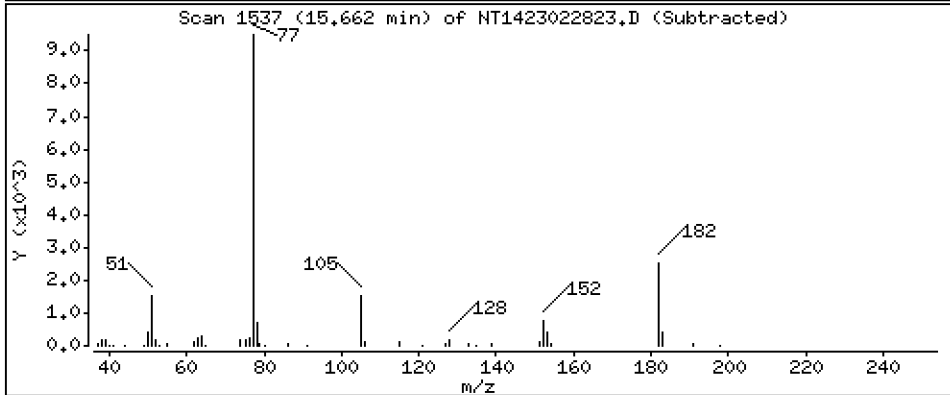
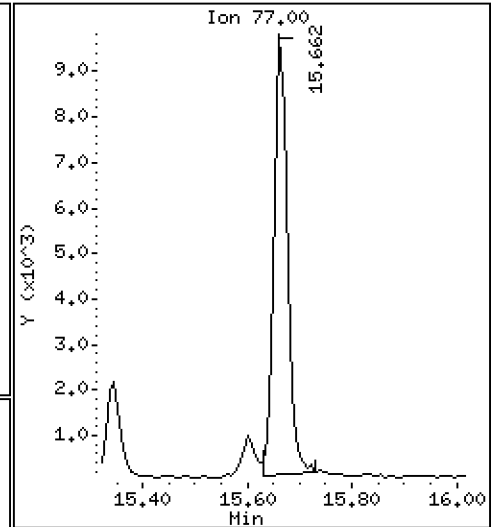
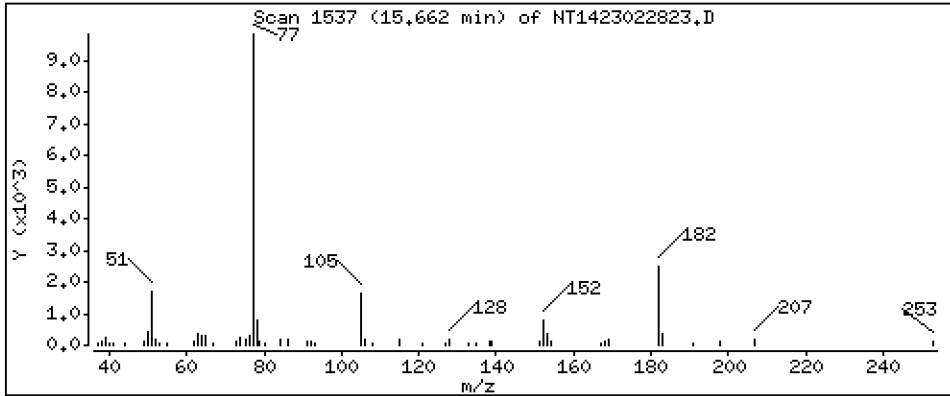
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,2082 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

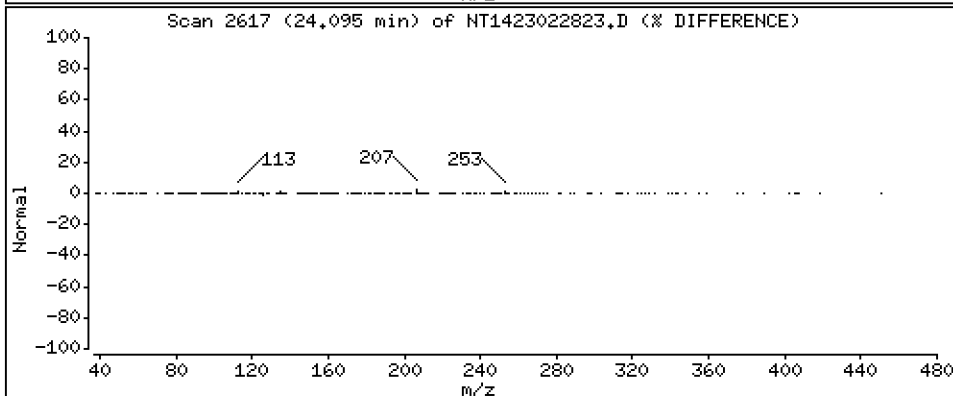
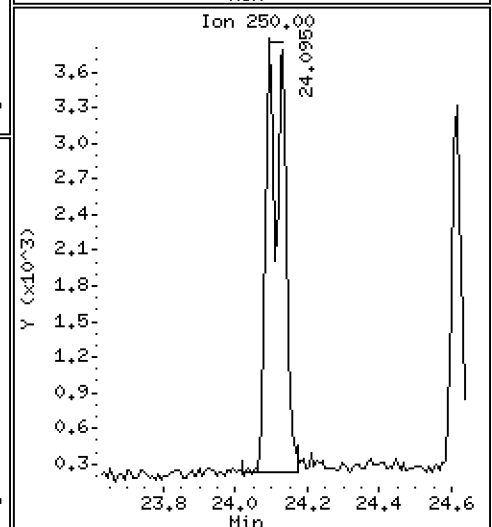
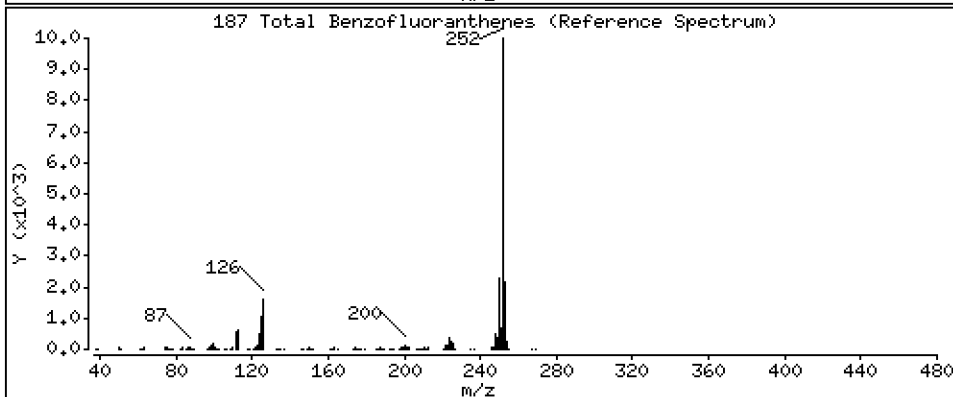
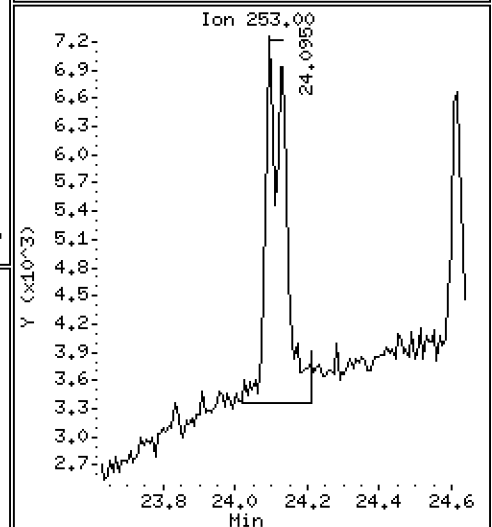
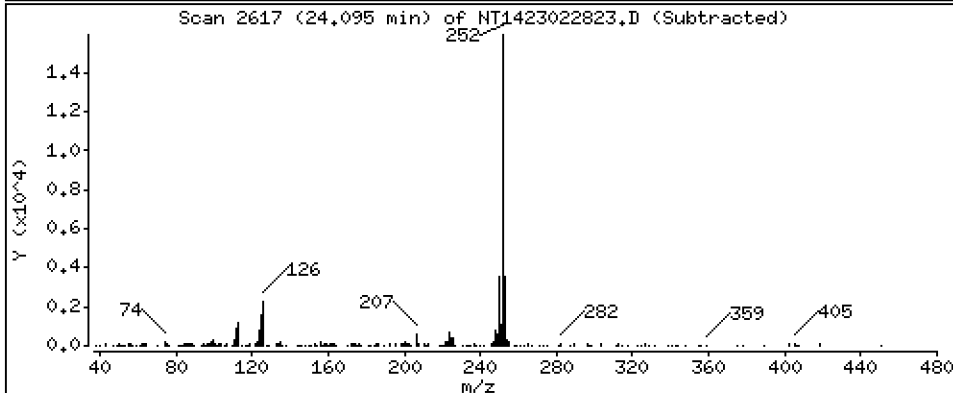
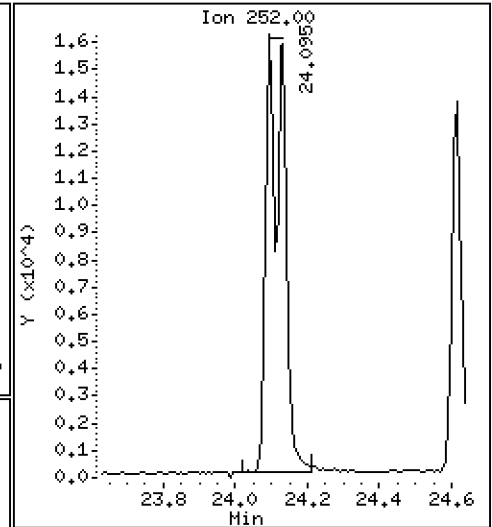
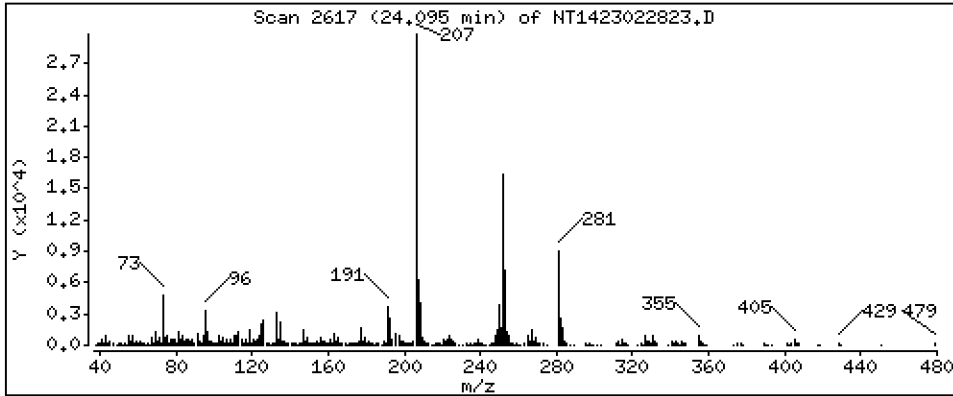
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,4192 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

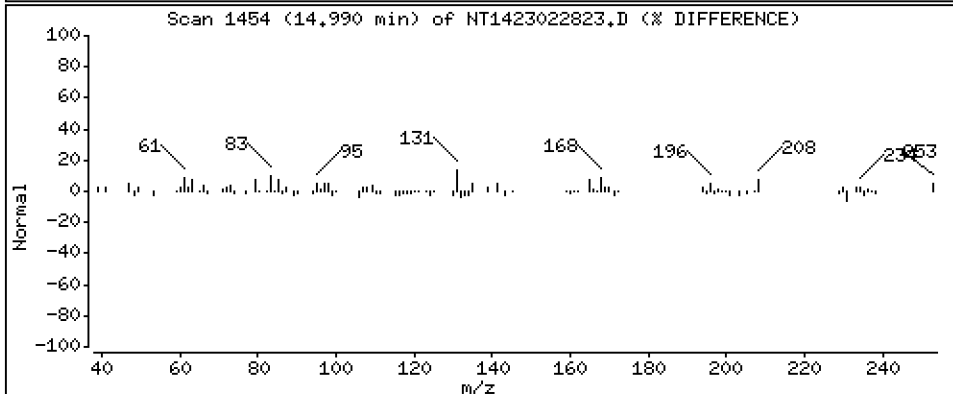
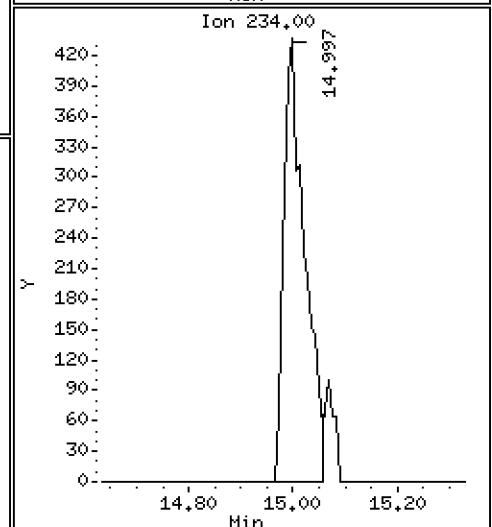
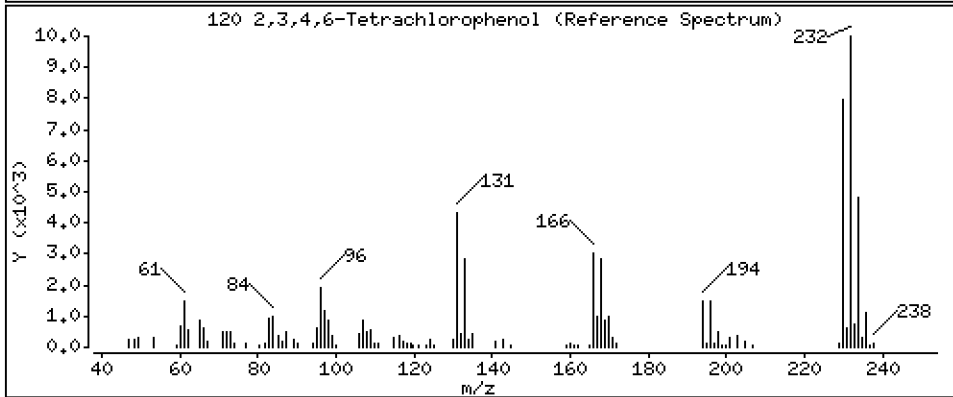
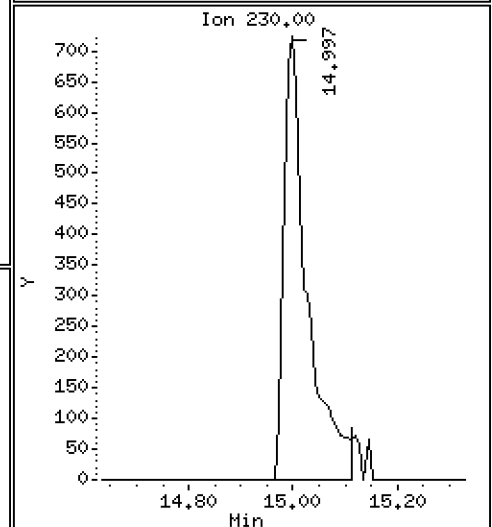
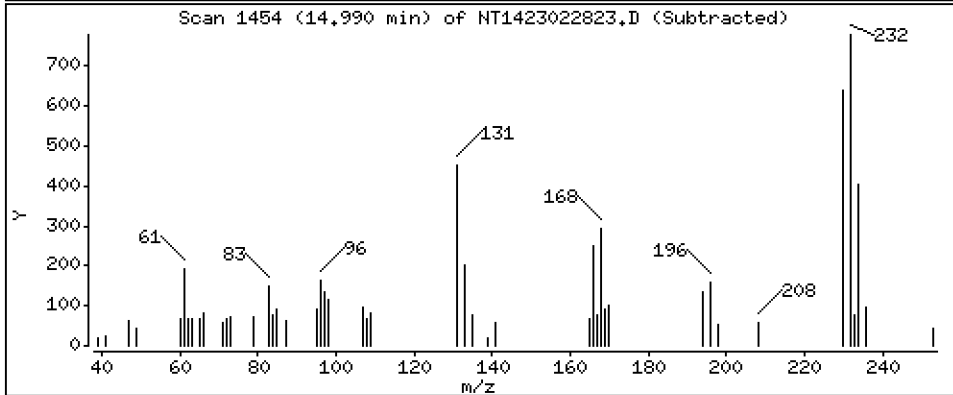
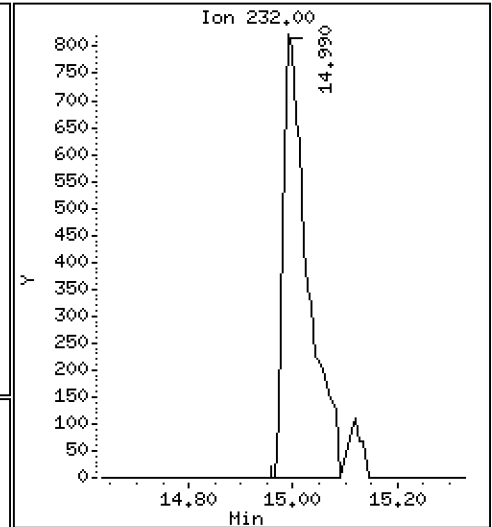
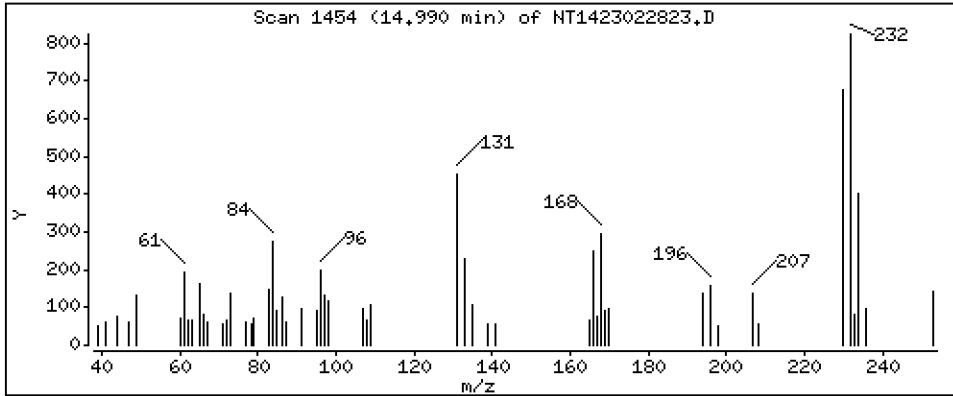
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1006 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022823.D  
 Lab Smp Id: SLB0374-LCV1  
 Inj Date : 01-MAR-2023 14:51 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-LCV1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 11-Mar-2023 09:11 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 8  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |             |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-------------|
|                                 |       |     |                        |        |         |          | ON-COLUMN      | FINAL       |
|                                 | MASS  |     |                        |        |         |          | (ug/mL)        | (ug/mL)     |
| \$ 1 2-Fluorophenol             | 112   |     | 6.066                  | 6.050  | (0.741) | 6770     | 0.21764        | 0.2176      |
| \$ 2 Phenol-d5                  | 99    |     | 7.650                  | 7.634  | (0.934) | 11118    | 0.25175        | 0.2517      |
| 3 Phenol                        | 94    |     | 7.673                  | 7.657  | (0.937) | 11406    | 0.21646        | 0.2165 (M)  |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.858                  | 7.850  | (0.959) | 10198    | 0.27157        | 0.2716      |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.781                  | 7.781  | (0.950) | 7424     | 0.19947        | 0.1995      |
| 6 2-Chlorophenol                | 128   |     | 7.881                  | 7.874  | (0.962) | 6882     | 0.17731        | 0.1773      |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.129                  | 8.129  | (0.992) | 9026     | 0.21101        | 0.2110      |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.191                  | 8.191  | (1.000) | 114717   | 4.00000        |             |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.222                  | 8.222  | (1.004) | 8579     | 0.20293        | 0.2029      |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.548                  | 8.548  | (1.044) | 5531     | 0.19564        | 0.1956      |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.571                  | 8.571  | (1.046) | 8862     | 0.21862        | 0.2186      |
| 11 Benzyl alcohol               | 108   |     | 8.556                  | 8.501  | (1.045) | 2291     | 0.09976        | 0.09976 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.796                  | 8.789  | (1.074) | 2337     | 0.21377        | 0.2138 (M)  |
| 13 2-Methylphenol               | 108   |     | 8.758                  | 8.742  | (1.069) | 5805     | 0.17438        | 0.1744      |
| 17 Hexachloroethane             | 117   |     | 9.146                  | 9.146  | (1.117) | 2371     | 0.14934        | 0.1493      |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.045                  | 9.053  | (1.104) | 5107     | 0.20149        | 0.2015      |
| 15 4-Methylphenol               | 108   |     | 9.037                  | 9.014  | (1.103) | 5113     | 0.13179        | 0.1318      |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.293                  | 9.285  | (0.873) | 7875     | 0.19743        | 0.1974      |
| 19 Nitrobenzene                 | 77    |     | 9.324                  | 9.316  | (0.876) | 7056     | 0.18408        | 0.1841      |
| 20 Isophorone                   | 82    |     | 9.774                  | 9.774  | (0.918) | 10848    | 0.18106        | 0.1811      |
| 21 2-Nitrophenol                | 139   |     | 9.960                  | 9.945  | (0.935) | 2738     | 0.13803        | 0.1380 (M)  |
| 22 2,4-Dimethylphenol           | 107   |     | 10.046                 | 10.038 | (0.943) | 14438    | 0.41318        | 0.4132      |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.232                 | 10.224 | (0.961) | 7543     | 0.19574        | 0.1957      |
| 24 Benzoic acid                 | 105   |     | Compound Not Detected. |        |         |          |                |             |
| 25 2,4-Dichlorophenol           | 162   |     | 10.425                 | 10.402 | (0.979) | 10268    | 0.28957        | 0.2896      |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.572                 | 10.572 | (0.993) | 8038     | 0.20354        | 0.2035      |
| * 27 Naphthalene-d8             | 136   |     | 10.649                 | 10.649 | (1.000) | 407764   | 4.00000        |             |
| 28 Naphthalene                  | 128   |     | 10.688                 | 10.688 | (1.004) | 23230    | 0.21358        | 0.2136      |
| 29 4-Chloroaniline              | 127   |     | 10.865                 | 10.850 | (1.020) | 14621    | 0.31429        | 0.3143      |
| 30 Hexachlorobutadiene          | 225   |     | 11.066                 | 11.066 | (1.039) | 4515     | 0.18736        | 0.1874      |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.863                 | 11.840 | (1.114) | 9574     | 0.30438        | 0.3044      |
| 32 2-Methylnaphthalene          | 142   |     | 12.080                 | 12.080 | (1.134) | 15634    | 0.19410        | 0.1941      |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                |             |

| Compounds                         | QUANT | SIG |                        |        |         |        |          | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|------------------------|--------|---------|--------|----------|----------------------|------------------|
|                                   |       |     | MASS                   | RT     | EXP RT  | REL RT | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     | 12.722                 | 12.715 | (0.894) | 7090   | 0.31265  | 0.3126               |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     | 12.815                 | 12.792 | (0.900) | 6778   | 0.27644  | 0.2764               |                  |
| § 36 2-Fluorobiphenyl             | 172   |     | 12.869                 | 12.877 | (0.904) | 18685  | 0.20679  | 0.2068               |                  |
| 37 2-Chloronaphthalene            | 162   |     | 13.063                 | 13.063 | (0.918) | 15044  | 0.20770  | 0.2077               |                  |
| 38 2-Nitroaniline                 | 65    |     | 13.365                 | 13.349 | (0.939) | 6287   | 0.33281  | 0.3328               |                  |
| 39 Dimethylphthalate              | 163   |     | 13.798                 | 13.798 | (0.970) | 15532  | 0.21271  | 0.2127               |                  |
| 40 Acenaphthylene                 | 152   |     | 13.914                 | 13.922 | (0.978) | 23495  | 0.22106  | 0.2211               |                  |
| 41 2,6-Dinitrotoluene             | 165   |     | 13.922                 | 13.922 | (0.978) | 6369   | 0.37221  | 0.3722               |                  |
| * 42 Acenaphthene-d10             | 164   |     | 14.232                 | 14.232 | (1.000) | 232149 | 4.00000  |                      |                  |
| 43 3-Nitroaniline                 | 138   |     | 14.224                 | 14.201 | (0.999) | 3874   | 0.22089  | 0.2209               |                  |
| 44 Acenaphthene                   | 153   |     | 14.293                 | 14.301 | (1.004) | 14297  | 0.21010  | 0.2101               |                  |
| 45 2,4-Dinitrophenol              | 184   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 46 Dibenzofuran                   | 168   |     | 14.626                 | 14.626 | (1.028) | 21483  | 0.19841  | 0.1984               |                  |
| 47 4-Nitrophenol                  | 109   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 48 2,4-Dinitrotoluene             | 165   |     | 14.726                 | 14.726 | (1.035) | 6886   | 0.27954  | 0.2795               |                  |
| 50 Diethylphthalate               | 149   |     | 15.237                 | 15.252 | (1.071) | 14673  | 0.21488  | 0.2149               |                  |
| 49 Fluorene                       | 166   |     | 15.329                 | 15.330 | (1.077) | 19157  | 0.20999  | 0.2100               |                  |
| 51 4-Chlorophenyl-phenylether     | 204   |     | 15.345                 | 15.345 | (1.078) | 9764   | 0.20115  | 0.2012               |                  |
| 52 4-Nitroaniline                 | 138   |     | 15.499                 | 15.469 | (1.089) | 4718   | 0.27139  | 0.2714 (M)           |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     | 15.576                 | 15.553 | (0.904) | 1986   | 0.13758  | 0.1376 (M)           |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     | 15.600                 | 15.607 | (0.905) | 11588  | 0.21230  | 0.2123               |                  |
| § 55 2,4,6-Tribromophenol         | 330   |     | 15.877                 | 15.870 | (1.116) | 2586   | 0.20743  | 0.2074               |                  |
| 56 4-Bromophenyl-phenylether      | 248   |     | 16.340                 | 16.340 | (0.948) | 4846   | 0.20194  | 0.2019               |                  |
| 57 Hexachlorobenzene              | 284   |     | 16.626                 | 16.626 | (0.965) | 5642   | 0.21385  | 0.2138               |                  |
| 58 Pentachlorophenol              | 266   |     | 17.044                 | 17.005 | (0.989) | 893    | 0.07199  | 0.07199 (M)          |                  |
| * 59 Phenanthrene-d10             | 188   |     | 17.237                 | 17.237 | (1.000) | 434349 | 4.00000  |                      |                  |
| 60 Phenanthrene                   | 178   |     | 17.284                 | 17.291 | (1.003) | 23812  | 0.20608  | 0.2061               |                  |
| 61 Anthracene                     | 178   |     | 17.376                 | 17.384 | (1.008) | 22351  | 0.20462  | 0.2046               |                  |
| 62 Carbazole                      | 167   |     | 17.740                 | 17.732 | (1.029) | 17760  | 0.18551  | 0.1855               |                  |
| 63 Di-n-butylphthalate            | 149   |     | 18.583                 | 18.583 | (1.078) | 22145  | 0.17907  | 0.1791               |                  |
| 64 Fluoranthene                   | 202   |     | 19.705                 | 19.705 | (0.881) | 24042  | 0.19724  | 0.1972               |                  |
| 65 Pyrene                         | 202   |     | 20.139                 | 20.139 | (0.901) | 24983  | 0.19440  | 0.1944               |                  |
| § 66 Terphenyl-d14                | 244   |     | 20.464                 | 20.471 | (0.915) | 19653  | 0.19862  | 0.1986               |                  |
| 67 Butylbenzylphthalate           | 149   |     | 21.431                 | 21.439 | (0.958) | 9295   | 0.20433  | 0.2043               |                  |
| 68 Benzo(a)anthracene             | 228   |     | 22.330                 | 22.330 | (0.999) | 23837  | 0.22149  | 0.2215               |                  |
| * 69 Chrysene-d12                 | 240   |     | 22.361                 | 22.361 | (1.000) | 321275 | 4.00000  |                      |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     | 22.322                 | 22.322 | (0.998) | 22528  | 0.73301  | 0.7330               |                  |
| 71 Chrysene                       | 228   |     | 22.399                 | 22.407 | (1.002) | 22276  | 0.21535  | 0.2153               |                  |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 22.492                 | 22.492 | (0.958) | 13193  | 0.18020  | 0.1802               |                  |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 23.468                 | 23.468 | (1.000) | 479418 | 4.00000  |                      |                  |
| 73 Di-n-octylphthalate            | 149   |     | 23.475                 | 23.483 | (1.000) | 25542  | 0.20235  | 0.2023               |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 24.095                 | 24.103 | (0.975) | 25649  | 0.19560  | 0.1956               |                  |
| 75 Benzo(k)fluoranthene           | 252   |     | 24.133                 | 24.134 | (0.977) | 31249  | 0.22089  | 0.2209               |                  |
| 76 Benzo(a)pyrene                 | 252   |     | 24.614                 | 24.621 | (0.996) | 24825  | 0.22067  | 0.2207               |                  |
| * 77 Perylene-d12                 | 264   |     | 24.706                 | 24.707 | (1.000) | 396889 | 4.00000  |                      |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 26.784                 | 26.784 | (1.084) | 18541  | 0.13093  | 0.1309               |                  |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 26.800                 | 26.792 | (1.085) | 17192  | 0.14294  | 0.1429               |                  |
| 80 Benzo(g,h,i)perylene           | 276   |     | 27.382                 | 27.375 | (1.108) | 12292  | 0.09952  | 0.09952              |                  |
| 90 N-Nitrosodimethylamine         | 74    |     | 4.011                  | 3.988  | (0.490) | 4100   | 0.17348  | 0.1735               |                  |
| 91 Aniline                        | 93    |     | 7.688                  | 7.681  | (0.939) | 16619  | 0.30511  | 0.3051               |                  |
| 93 Benzidine                      | 184   |     | 20.015                 | 19.992 | (0.895) | 12002  | 0.23015  | 0.2301               |                  |
| 103 Pyridine                      | 79    |     | 4.112                  | 3.996  | (0.502) | 8733   | 0.12528  | 0.1253 (M)           |                  |
| 105 1-methylnaphthalene           | 142   |     | 12.297                 | 12.297 | (1.155) | 14470  | 0.19514  | 0.1951               |                  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     | 15.661                 | 15.669 | (1.100) | 16319  | 0.20817  | 0.2082               |                  |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 24.095 | 24.134 | (0.975) | 53777    | 0.41924              | 0.4192           |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 14.989 | 14.981 | (1.053) | 2627     | 0.10062              | 0.1006 (M)       |

QC Flag Legend

M - Compound response manually integrated.



ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023  
 Lab File ID: NT1423022823.D Calibration Time: 13:39  
 Lab Smp Id: SLB0374-LCV1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 125853   | 62927      | 251706  | 114717 | -8.85  |
| 27 Naphthalene-d8     | 454961   | 227481     | 909922  | 407764 | -10.37 |
| 42 Acenaphthene-d10   | 273779   | 136890     | 547558  | 232149 | -15.21 |
| 59 Phenanthrene-d10   | 520384   | 260192     | 1040768 | 434349 | -16.53 |
| 69 Chrysene-d12       | 399183   | 199592     | 798366  | 321275 | -19.52 |
| 134 Di-n-octylphthala | 602810   | 301405     | 1205620 | 479418 | -20.47 |
| 77 Perylene-d12       | 478887   | 239444     | 957774  | 396889 | -17.12 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.19     | 7.69     | 8.69  | 8.19   | -0.00 |
| 27 Naphthalene-d8     | 10.65    | 10.15    | 11.15 | 10.65  | -0.00 |
| 42 Acenaphthene-d10   | 14.23    | 13.73    | 14.73 | 14.23  | -0.00 |
| 59 Phenanthrene-d10   | 17.24    | 16.74    | 17.74 | 17.24  | -0.00 |
| 69 Chrysene-d12       | 22.36    | 21.86    | 22.86 | 22.36  | -0.00 |
| 134 Di-n-octylphthala | 23.47    | 22.97    | 23.97 | 23.47  | -0.00 |
| 77 Perylene-d12       | 24.71    | 24.21    | 25.21 | 24.71  | -0.00 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022823.D

Lab ID: SLB0374-LCV1  
nt14.i, ABN.m, 01-MAR-2023 14:51

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND       |
|-------|---------|--------|----------------|
| 1.045 | 1.038   | 0.0066 | Benzyl alcohol |
| 0.502 | 0.488   | 0.0141 | Pyridine       |

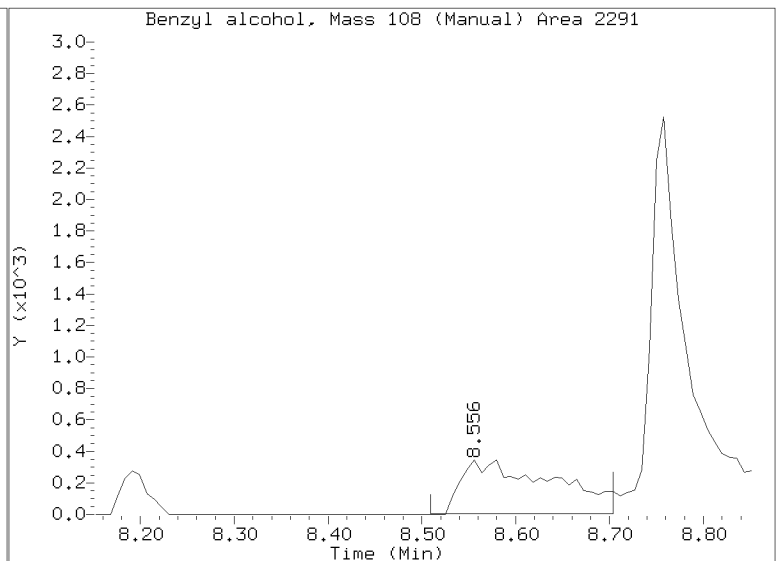
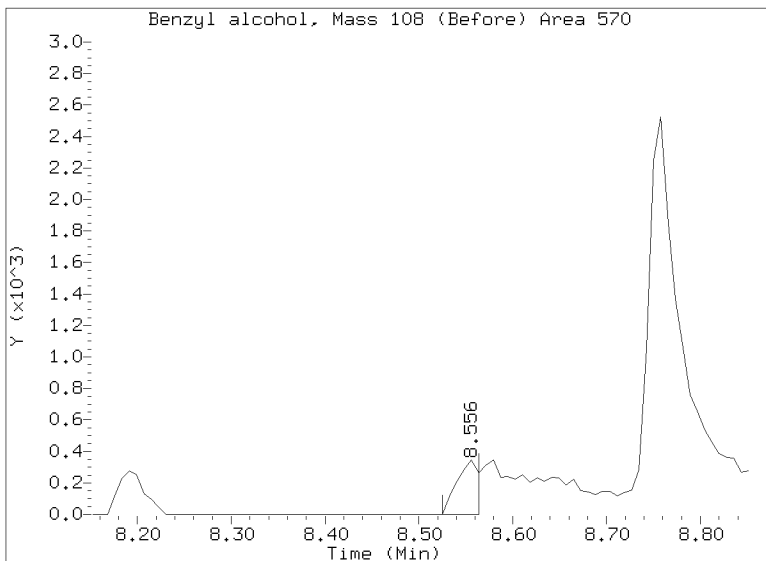
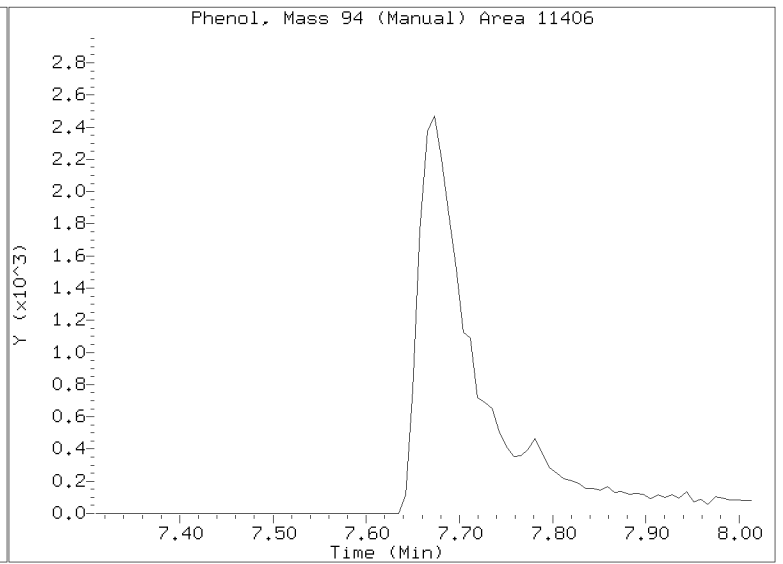
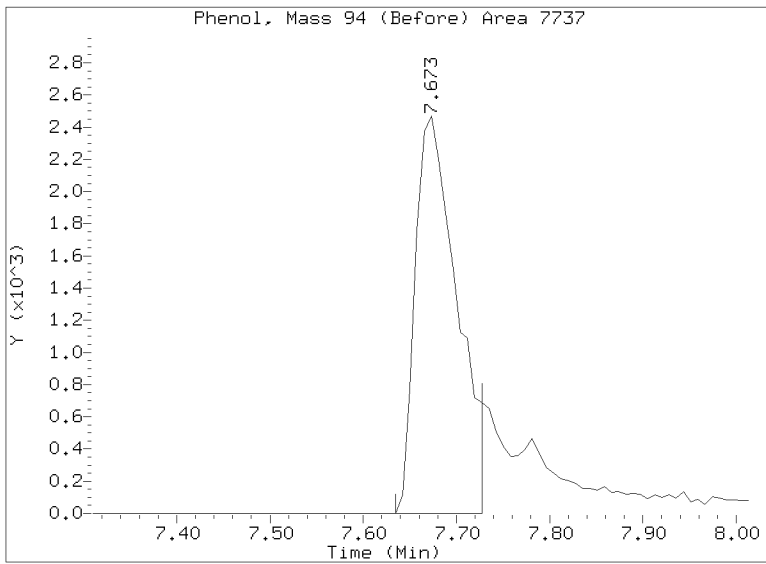
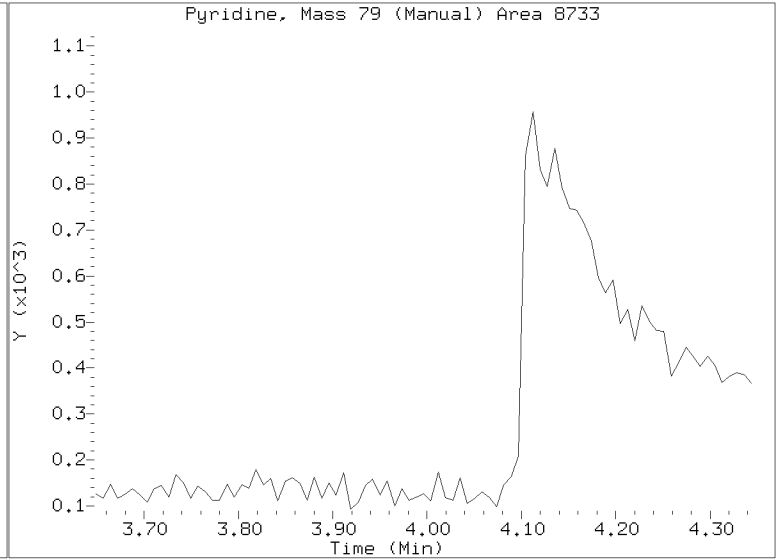
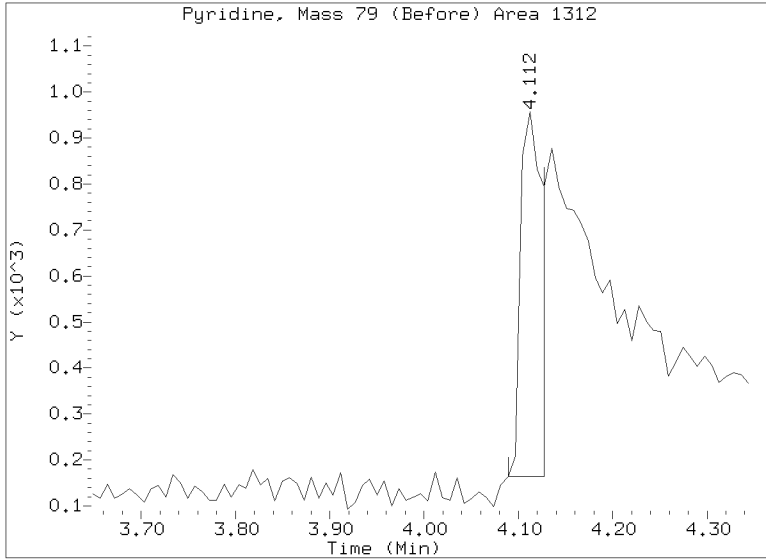
RRT check based on Ccal File: NT1423022821.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

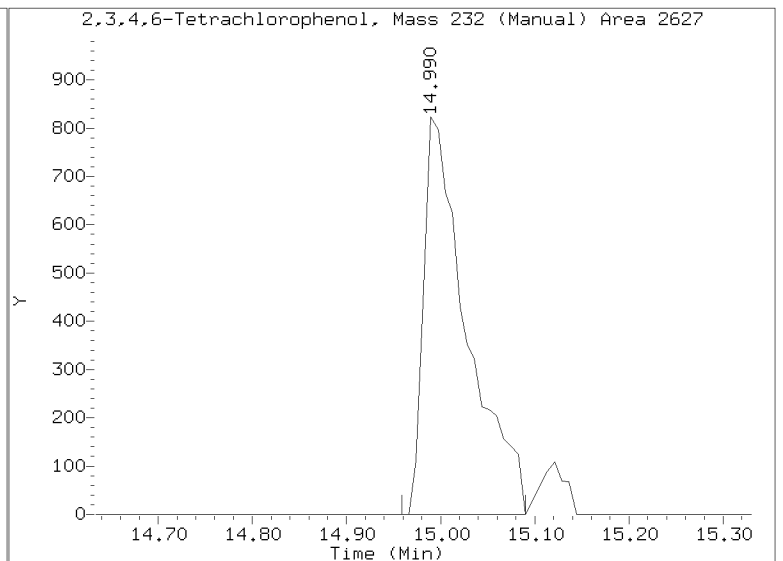
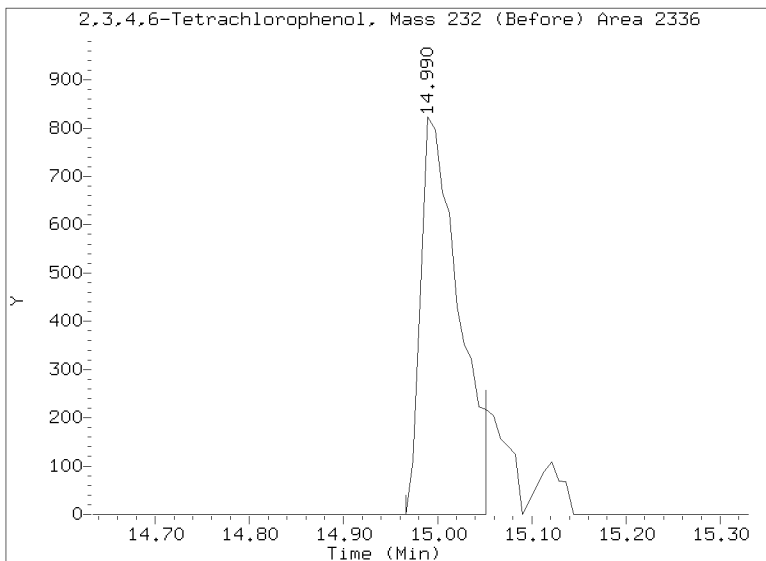
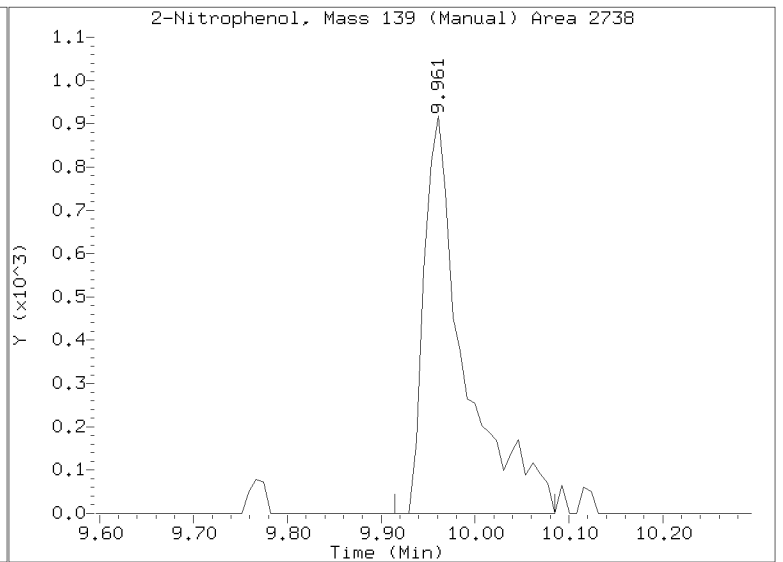
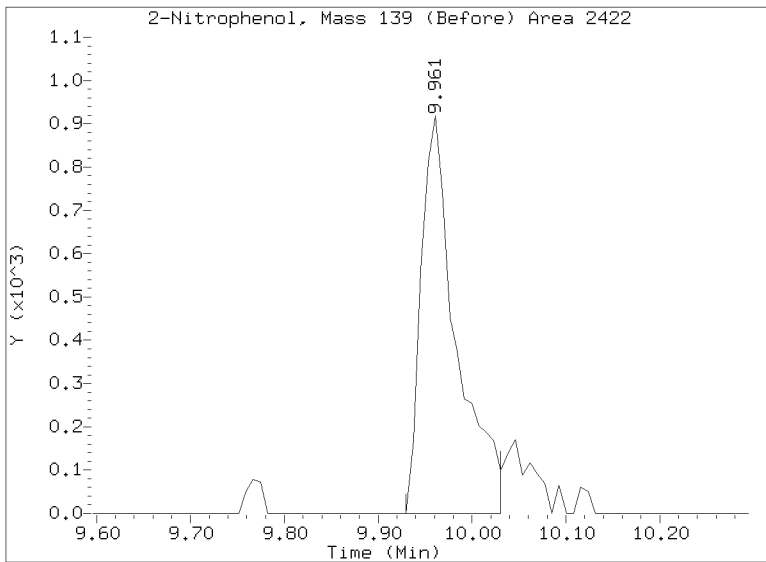
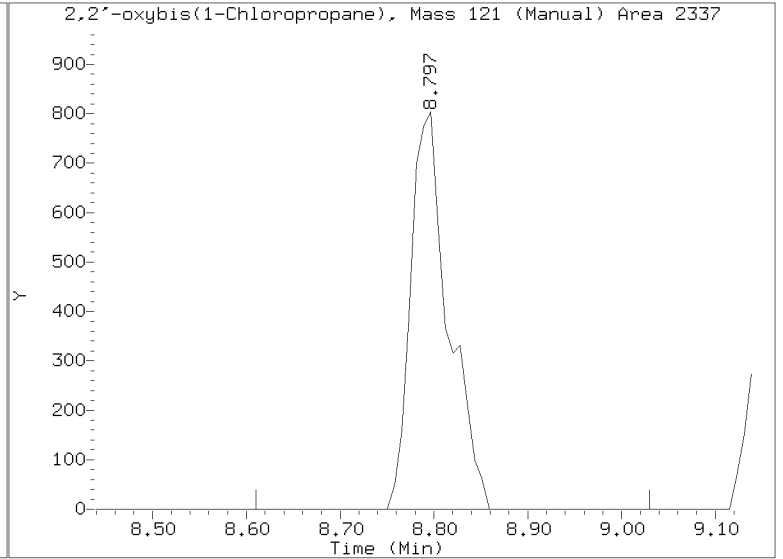
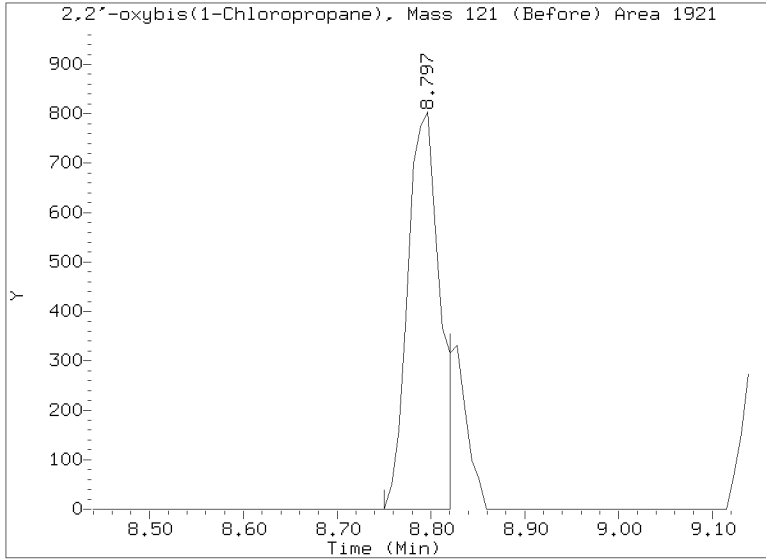
# Quant Ion Manual Peak Adjustment Report

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Injection Date: 01-MAR-2023 14:51  
Lab ID:SLB0374-LCV1 Client ID:  
Report Date: 03/11/2023 09:11



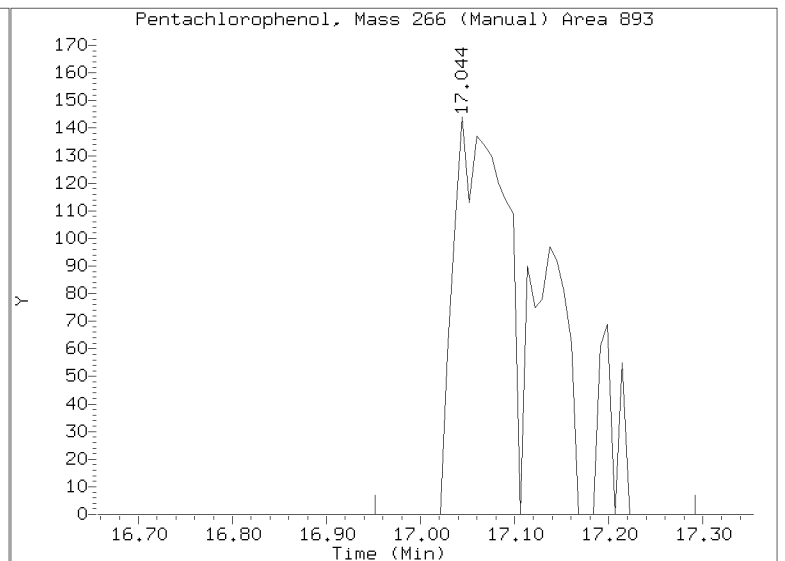
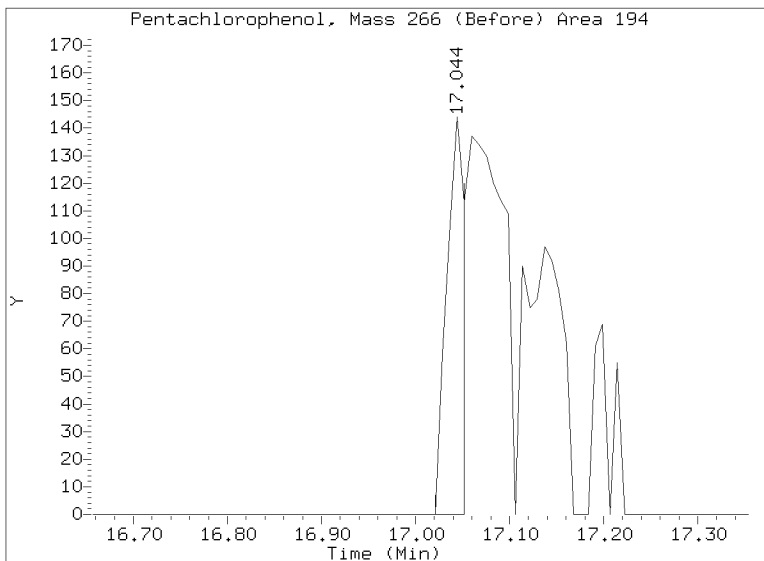
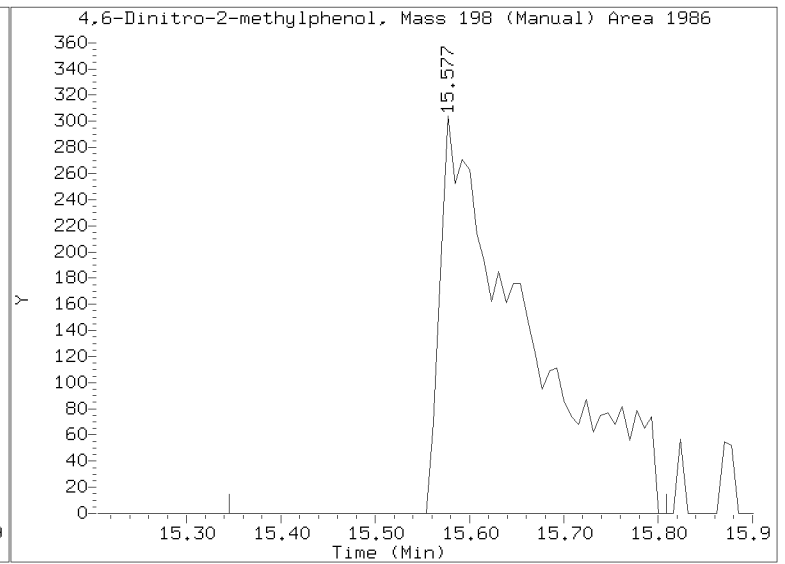
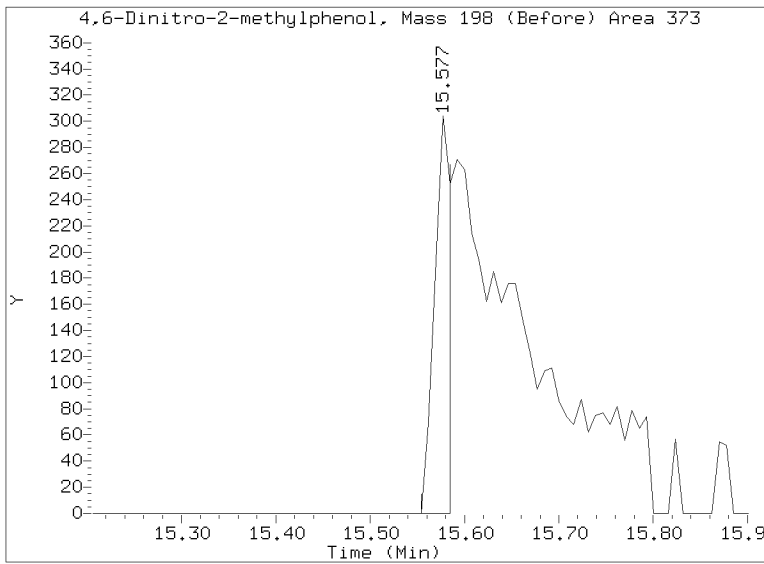
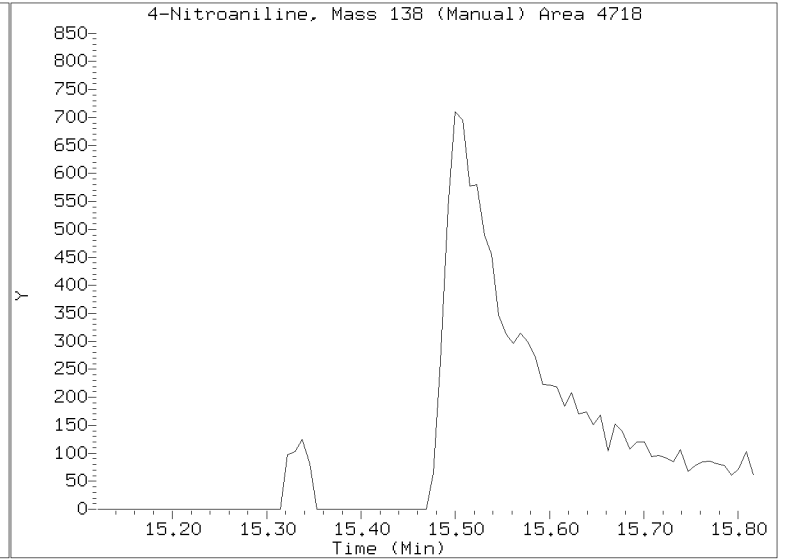
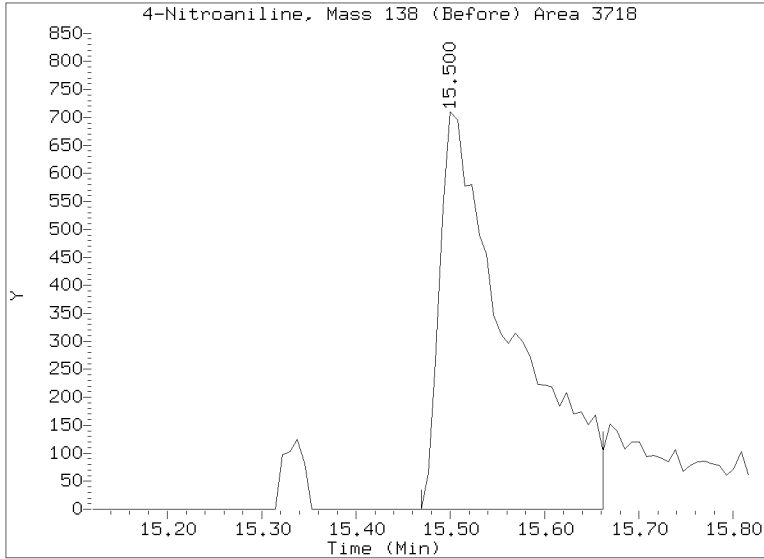
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022823.D  
Injection Date: 01-MAR-2023 14:51  
Lab ID:SLB0374-LCV1 Client ID:  
Report Date: 03/11/2023 09:11



# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022823.D  
Injection Date: 01-MAR-2023 14:51  
Lab ID:SLB0374-LCV1 Client ID:  
Report Date: 03/11/2023 09:11





## LOW-CONCENTRATION CONTINUING CALIBRATION CHECK EPA 8270E

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Instrument ID: NT14  
Lab File ID: NT1423022825.D  
Sequence: SLB0374  
Lab Sample ID: SLB0374-LCV2  
Sequence Name: ABN 0.5

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Calibration: GC00033  
Calibration Date: 02/28/2023  
Injection Date: 03/01/23  
Injection Time: 16:04

| COMPOUND                     | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|------------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|---------|
|                              |      | STD           | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| Phenol                       | A    | 0.50000       | 0.5  | 1.8373500             | 1.8348240 |     | -0.1         | +/-50   |
| bis(2-chloroethyl) ether     | A    | 0.50000       | 0.5  | 1.5312550             | 1.3327710 |     | 3.0          | +/-50   |
| 2-Chlorophenol               | A    | 0.50000       | 0.5  | 1.3533690             | 1.3119570 |     | -3.1         | +/-50   |
| 1,3-Dichlorobenzene          | A    | 0.50000       | 0.5  | 1.4914740             | 1.5684780 |     | 5.2          | +/-50   |
| 1,4-Dichlorobenzene          | A    | 0.50000       | 0.5  | 1.4740600             | 1.4895200 |     | 1.0          | +/-50   |
| 1,2-Dichlorobenzene          | A    | 0.50000       | 0.5  | 1.4134490             | 1.4723900 |     | 4.2          | +/-50   |
| Benzyl Alcohol               | A    | 0.50000       | 0.3  | 0.6439892             | 0.4611618 |     | -42.4        | +/-50   |
| 2,2'-Oxybis(1-chloropropane) | A    | 0.50000       | 0.5  | 0.3811859             | 0.3977989 |     | 4.4          | +/-50   |
| 2-Methylphenol               | A    | 0.50000       | 0.5  | 1.1607310             | 1.1463040 |     | -1.2         | +/-50   |
| Hexachloroethane             | A    | 0.50000       | 0.4  | 0.5535732             | 0.4649685 |     | -16.0        | +/-50   |
| N-Nitroso-di-n-Propylamine   | A    | 0.50000       | 0.5  | 0.8837751             | 0.9689248 |     | 9.6          | +/-50   |
| 4-Methylphenol               | A    | 0.50000       | 0.4  | 1.1353050             | 1.1399190 |     | -15.6        | +/-50   |
| Nitrobenzene                 | A    | 0.50000       | 0.6  | 0.3760061             | 0.4138800 |     | 10.1         | +/-50   |
| Isophorone                   | A    | 0.50000       | 0.4  | 0.4996273             | 0.5094310 |     | -13.2        | +/-50   |
| 2-Nitrophenol                | A    | 0.50000       | 0.4  | 0.1467597             | 0.1453673 |     | -25.3        | +/-50   |
| 2,4-Dimethylphenol           | A    | 1.0000        | 1.1  | 0.3427845             | 0.3755584 |     | 9.6          | +/-50   |
| Bis(2-Chloroethoxy)methane   | A    | 0.50000       | 0.5  | 0.3780235             | 0.3764306 |     | -0.4         | +/-50   |
| 2,4-Dichlorophenol           | A    | 1.0000        | 0.9  | 0.2946235             | 0.2978513 |     | -14.1        | +/-50   |
| 1,2,4-Trichlorobenzene       | A    | 0.50000       | 0.5  | 0.3874001             | 0.3919546 |     | 1.2          | +/-50   |
| Naphthalene                  | A    | 0.50000       | 0.5  | 1.0669580             | 1.1306350 |     | 6.0          | +/-50   |
| Benzoic acid                 | A    | 2.0000        | 0.6  | 0.1358415             | 0.0385265 |     | -71.6        | +/-50 * |
| 4-Chloroaniline              | A    | 1.0000        | 0.9  | 0.4563565             | 0.4319419 |     | -5.4         | +/-50   |
| Hexachlorobutadiene          | A    | 0.50000       | 0.5  | 0.2363916             | 0.2597913 |     | 9.9          | +/-50   |
| 4-Chloro-3-Methylphenol      | A    | 1.0000        | 1.0  | 0.3085482             | 0.3000055 |     | -2.8         | +/-50   |
| 2-Methylnaphthalene          | A    | 0.50000       | 0.5  | 0.7901196             | 0.8011774 |     | 1.4          | +/-50   |
| Hexachlorocyclopentadiene    | A    | 1.0000        | 0.03 | 0.3443795             | 0.0121975 |     | -97.1        | +/-50 * |
| 2,4,6-Trichlorophenol        | A    | 1.0000        | 0.9  | 0.3907367             | 0.3646861 |     | -6.7         | +/-50   |
| 2,4,5-Trichlorophenol        | A    | 1.0000        | 0.9  | 0.4224702             | 0.3705960 |     | -12.3        | +/-50   |
| 2-Chloronaphthalene          | A    | 0.50000       | 0.5  | 1.2480280             | 1.2992850 |     | 4.1          | +/-50   |
| 2-Nitroaniline               | A    | 1.0000        | 1.0  | 0.3254949             | 0.3411224 |     | 4.8          | +/-50   |
| Acenaphthylene               | A    | 0.50000       | 0.6  | 1.8312950             | 2.0757850 |     | 13.4         | +/-50   |
| Dimethylphthalate            | A    | 0.50000       | 0.5  | 1.2581570             | 1.3795140 |     | 9.6          | +/-50   |
| 2,6-Dinitrotoluene           | A    | 1.0000        | 1.0  | 0.2948315             | 0.2931939 |     | -0.6         | +/-50   |
| Acenaphthene                 | A    | 0.50000       | 0.5  | 1.1724930             | 1.2219280 |     | 4.2          | +/-50   |

\* Values outside of QC limits



LOW-CONCENTRATION  
CONTINUING CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022825.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-LCV2

Injection Time: 16:04

Sequence Name: ABN 0.5

| COMPOUND                   | TYPE | CONC. (ug/mL) |       | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|----------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|---------|
|                            |      | STD           | CCV   | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| 3-Nitroaniline             | A    | 1.0000        | 0.9   | 0.3021810             | 0.2753888 |     | -8.9         | +/-50   |
| 2,4-Dinitrophenol          | A    | 2.0000        | 0.3   | 0.1437811             | 0.0310833 |     | -83.3        | +/-50 * |
| Dibenzofuran               | A    | 0.50000       | 0.5   | 1.8656210             | 1.8958900 |     | 1.6          | +/-50   |
| 4-Nitrophenol              | A    | 1.0000        | 0.7   | 0.1323756             | 0.1088557 |     | -27.2        | +/-50   |
| 2,4-Dinitrotoluene         | A    | 1.0000        | 0.9   | 0.4244424             | 0.3660918 |     | -13.7        | +/-50   |
| Fluorene                   | A    | 0.50000       | 0.5   | 1.5719010             | 1.6831060 |     | 7.1          | +/-50   |
| 4-Chlorophenylphenyl ether | A    | 0.50000       | 0.5   | 0.8363665             | 0.8484455 |     | 1.4          | +/-50   |
| Diethyl phthalate          | A    | 0.50000       | 0.5   | 1.1765440             | 1.2787290 |     | 8.7          | +/-50   |
| 4-Nitroaniline             | A    | 1.0000        | 0.8   | 0.2995450             | 0.2417436 |     | -19.3        | +/-50   |
| 4,6-Dinitro-2-methylphenol | A    | 2.0000        | 0.8   | 0.0975169             | 0.0508922 |     | -61.7        | +/-50 * |
| N-Nitrosodiphenylamine     | A    | 0.50000       | 0.6   | 0.5026629             | 0.5581809 |     | 11.0         | +/-50   |
| 4-Bromophenyl phenyl ether | A    | 0.50000       | 0.5   | 0.2209900             | 0.2269626 |     | 2.7          | +/-50   |
| Hexachlorobenzene          | A    | 0.50000       | 0.5   | 0.2429692             | 0.2525975 |     | 4.0          | +/-50   |
| Pentachlorophenol          | A    | 1.0000        | 0.4   | 0.0938263             | 0.0489652 |     | -57.2        | +/-50 * |
| Phenanthrene               | A    | 0.50000       | 0.5   | 1.0640870             | 1.0907910 |     | 2.5          | +/-50   |
| Anthracene                 | A    | 0.50000       | 0.5   | 1.0059580             | 1.0440660 |     | 3.8          | +/-50   |
| Carbazole                  | A    | 0.50000       | 0.5   | 0.8816605             | 0.8729186 |     | -1.0         | +/-50   |
| Di-n-Butylphthalate        | A    | 0.50000       | 0.5   | 0.9469101             | 1.0882950 |     | -4.3         | +/-50   |
| Fluoranthene               | A    | 0.50000       | 0.5   | 1.5175930             | 1.5566980 |     | 2.6          | +/-50   |
| Pyrene                     | A    | 0.50000       | 0.5   | 1.6000330             | 1.6380530 |     | 2.4          | +/-50   |
| Butylbenzylphthalate       | A    | 0.50000       | 0.5   | 0.4562763             | 0.5790723 |     | 2.4          | +/-50   |
| Benzo(a)anthracene         | A    | 0.50000       | 0.5   | 1.3399020             | 1.4612620 |     | 9.1          | +/-50   |
| 3,3'-Dichlorobenzidine     | A    | 1.5000        | 1.9   | 0.3826468             | 0.4729977 |     | 23.6         | +/-50   |
| Chrysene                   | A    | 0.50000       | 0.5   | 1.2879040             | 1.3717980 |     | 6.5          | +/-50   |
| bis(2-Ethylhexyl)phthalate | A    | 0.50000       | 0.5   | 0.5161185             | 0.5544199 |     | -9.2         | +/-50   |
| Di-n-Octylphthalate        | A    | 0.50000       | 0.5   | 1.0531830             | 1.0539710 |     | 0.07         | +/-50   |
| Benzofluoranthenes, Total  | A    | 1.0000        | 1.1   | 1.2927770             | 1.3633150 |     | 5.5          | +/-50   |
| Benzo(a)pyrene             | A    | 0.50000       | 0.5   | 1.1338150             | 1.2403770 |     | 9.4          | +/-50   |
| Indeno(1,2,3-cd)pyrene     | A    | 0.50000       | 0.3   | 1.4272450             | 0.9301030 |     | -34.8        | +/-50   |
| Dibenzo(a,h)anthracene     | A    | 0.50000       | 0.4   | 1.2122070             | 0.8567772 |     | -29.3        | +/-50   |
| Benzo(g,h,i)perylene       | A    | 0.50000       | 0.2   | 1.2448130             | 0.5807033 |     | -53.4        | +/-50 * |
| 1-Methylnaphthalene        | A    | 0.50000       | 0.5   | 0.7274101             | 0.7436689 |     | 2.2          | +/-50   |
| 2-Fluorophenol             | A    | 0.75000       | 0.690 | 1.0846110             | 0.9980480 |     | -8.0         | +/-50   |
| Phenol-d5                  | A    | 0.75000       | 0.751 | 1.5399100             | 1.5410950 |     | 0.08         | +/-50   |

\* Values outside of QC limits



**LOW-CONCENTRATION  
CONTINUING CALIBRATION CHECK  
EPA 8270E**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT14</u>                      | Calibration:      | <u>GC00033</u>         |
| Lab File ID:   | <u>NT1423022825.D</u>            | Calibration Date: | <u>02/28/2023</u>      |
| Sequence:      | <u>SLB0374</u>                   | Injection Date:   | <u>03/01/23</u>        |
| Lab Sample ID: | <u>SLB0374-LCV2</u>              | Injection Time:   | <u>16:04</u>           |
| Sequence Name: | <u>ABN 0.5</u>                   |                   |                        |

| COMPOUND               | TYPE | CONC. (ug/mL) |       | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|-------|
|                        |      | STD           | CCV   | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| 2-Chlorophenol-d4      | A    | 0.75000       | 0.753 | 1.3093910             | 1.3144530 |     | 0.4          | +/-50 |
| 1,2-Dichlorobenzene-d4 | A    | 0.50000       | 0.511 | 0.9857584             | 1.0066230 |     | 2.1          | +/-50 |
| Nitrobenzene-d5        | A    | 0.50000       | 0.540 | 0.3912861             | 0.4224444 |     | 8.0          | +/-50 |
| 2-Fluorobiphenyl       | A    | 0.50000       | 0.523 | 1.5568580             | 1.6293890 |     | 4.7          | +/-50 |
| 2,4,6-Tribromophenol   | A    | 0.75000       | 0.624 | 0.1850894             | 0.1788969 |     | -16.9        | +/-50 |
| p-Terphenyl-d14        | A    | 0.50000       | 0.515 | 1.2319340             | 1.2690590 |     | 3.0          | +/-50 |

\* Values outside of QC limits

\* Values outside of QC limits



Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022825.D

Date: 01-MAR-2023 16:04

Client ID:

Sample Info: SLB0374-LCW2

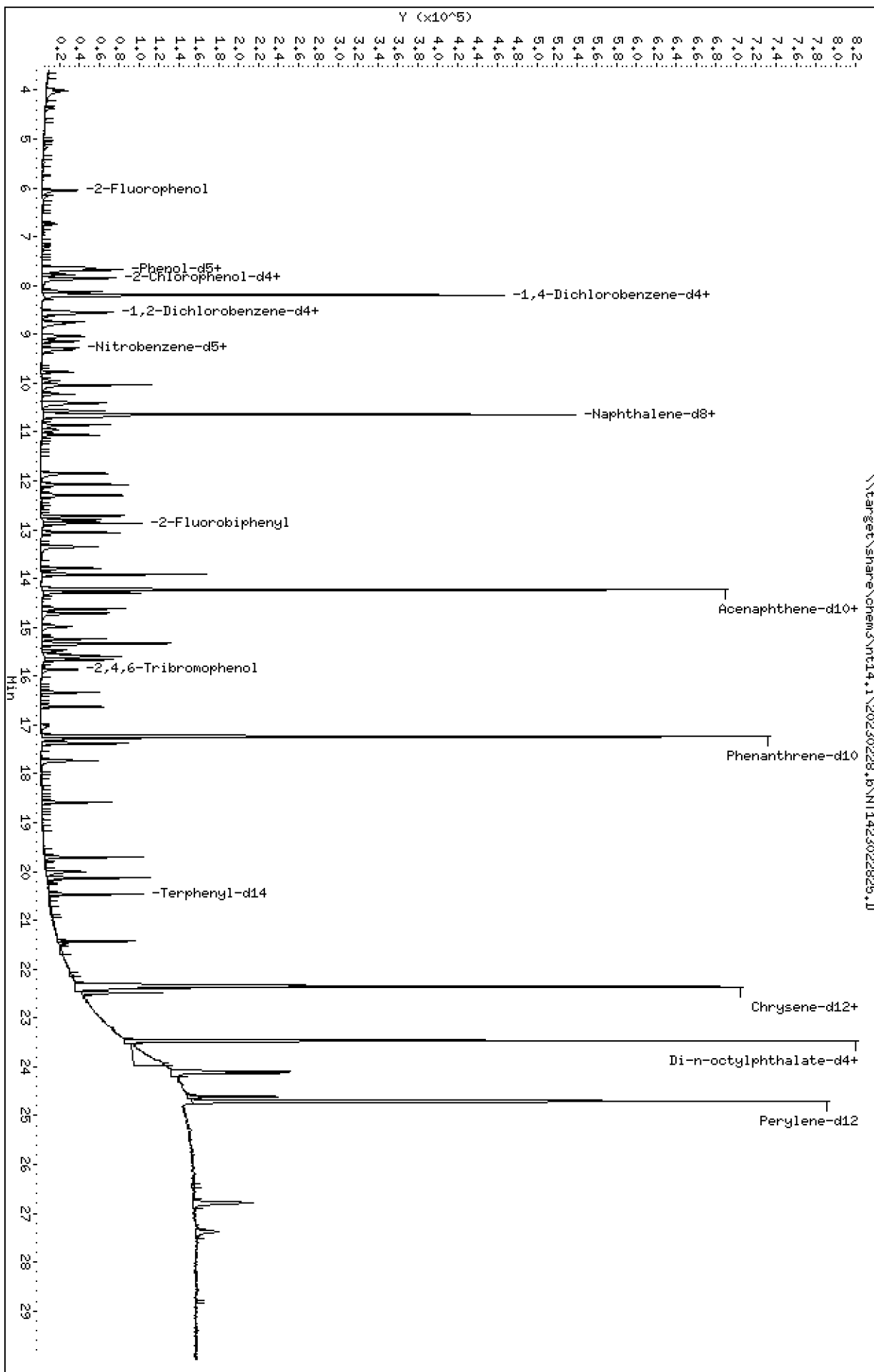
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

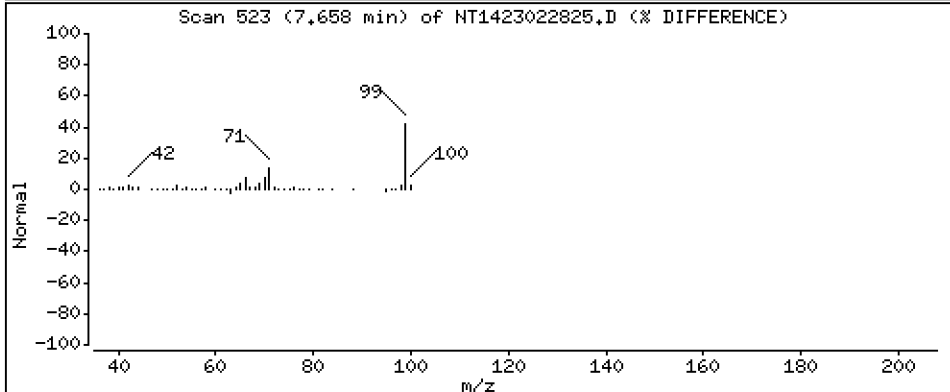
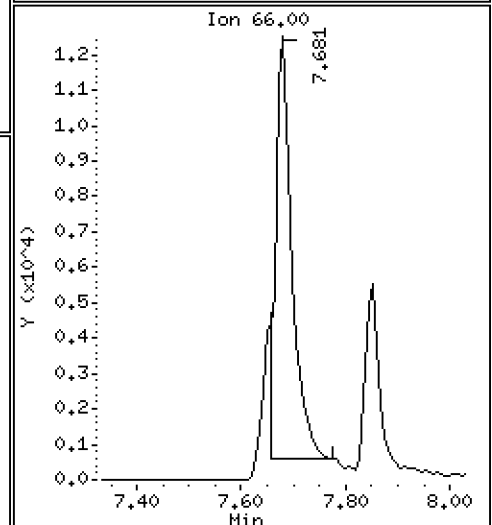
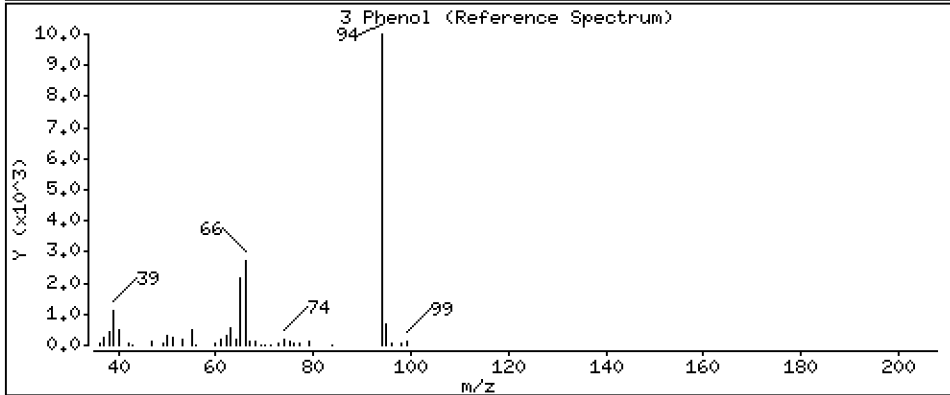
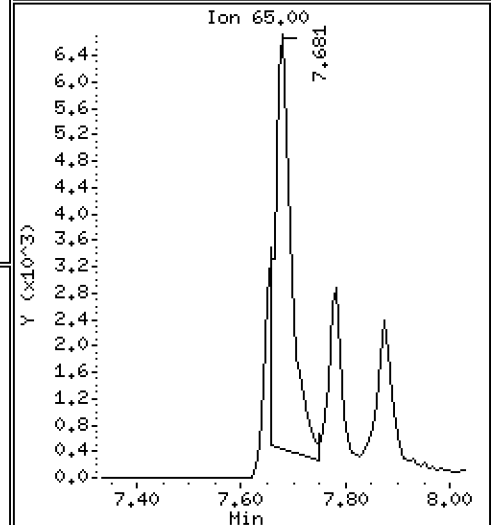
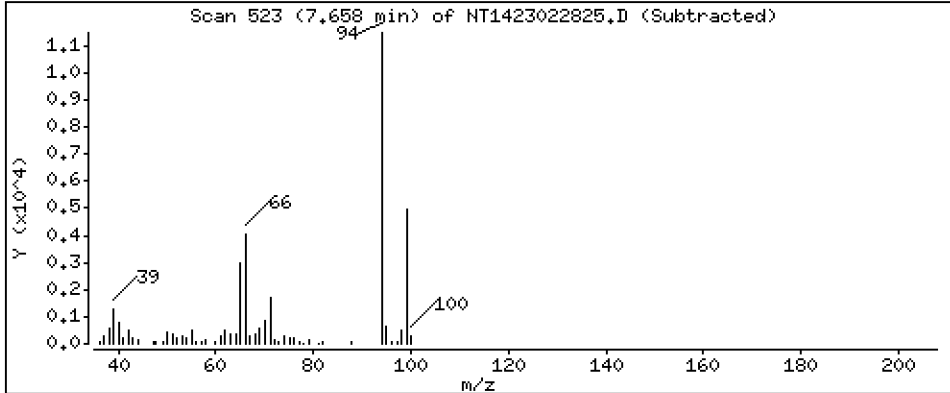
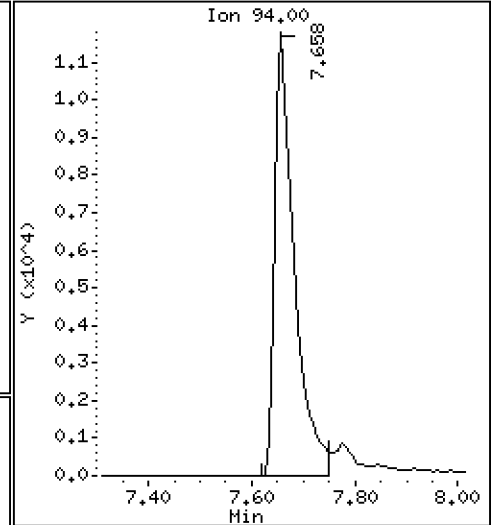
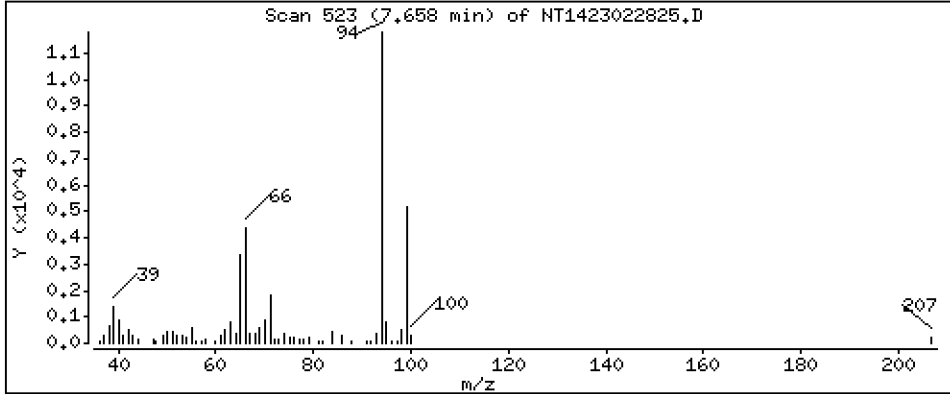
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 0.4993 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

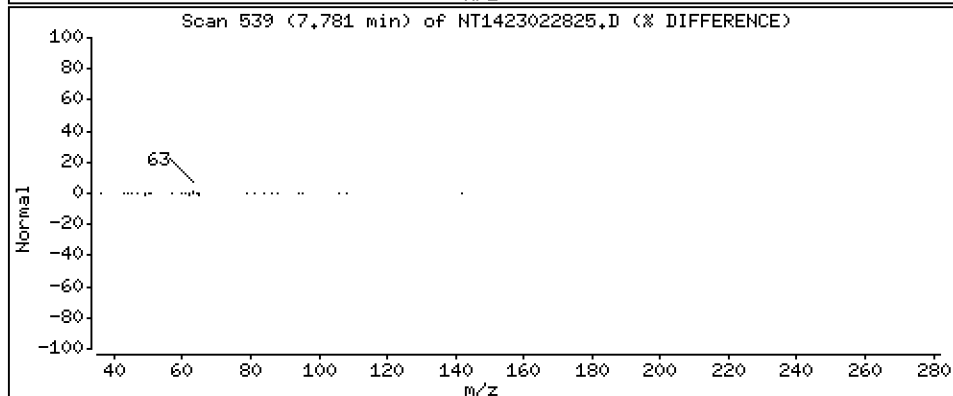
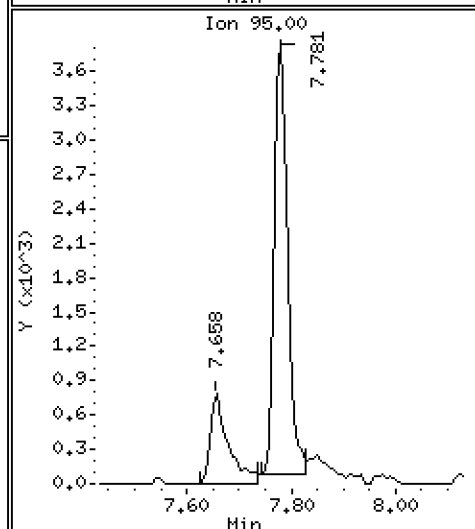
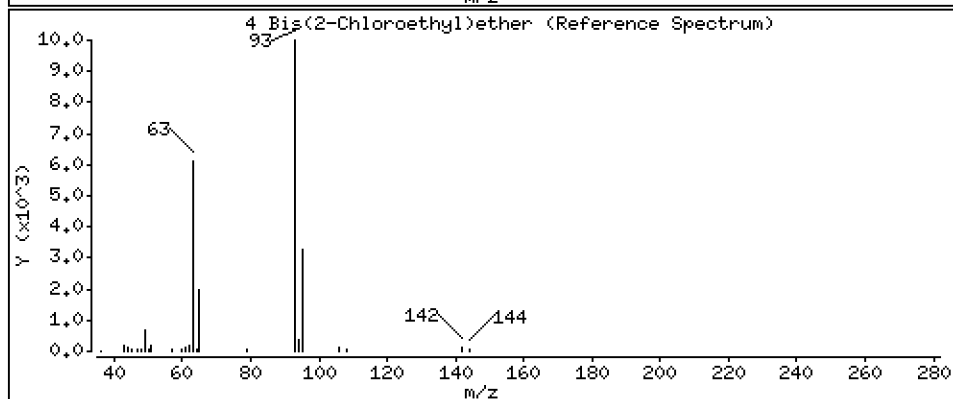
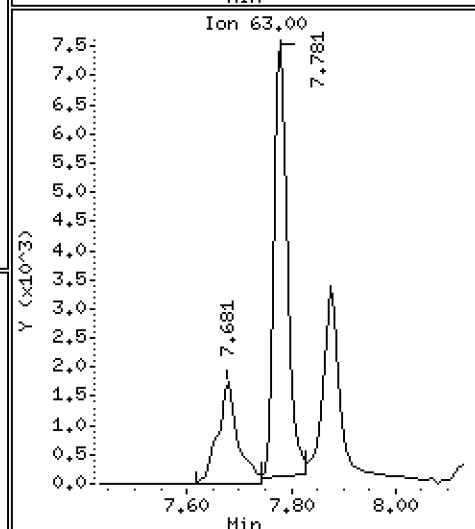
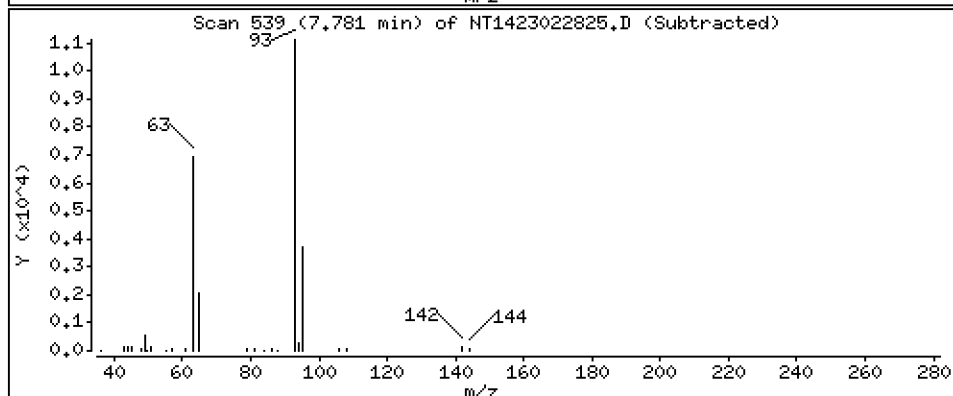
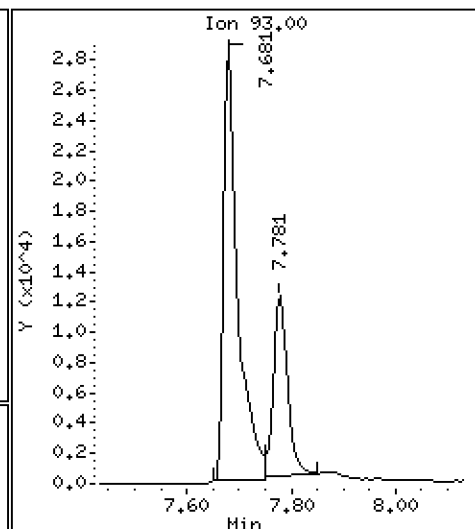
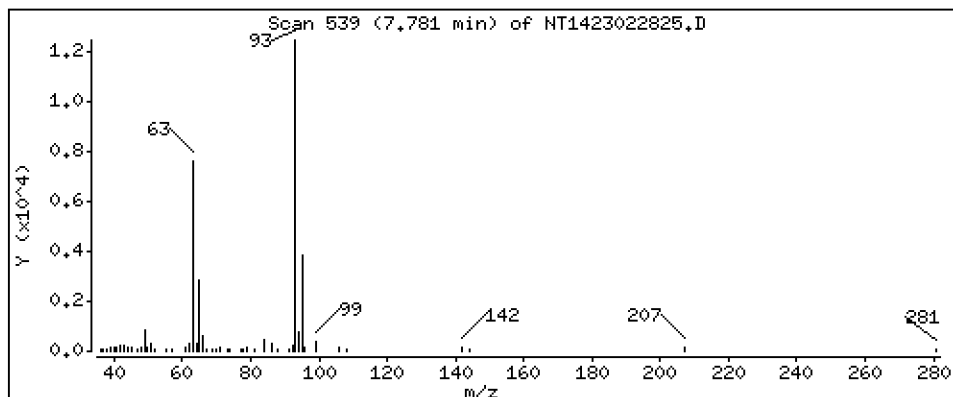
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 0.5148 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

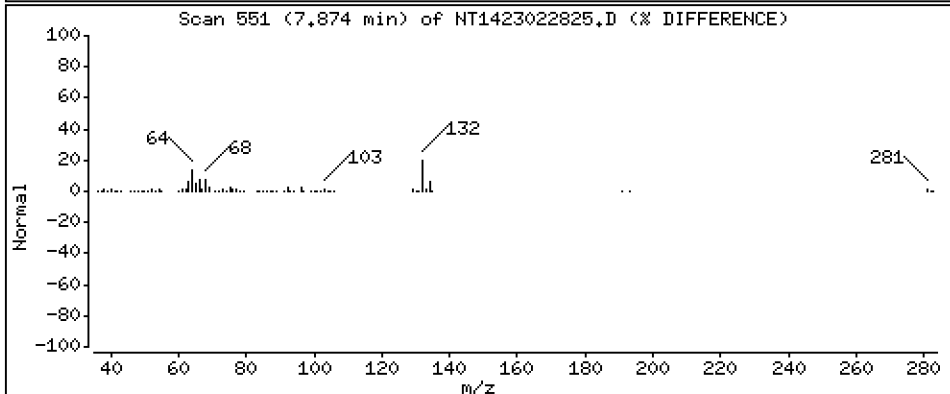
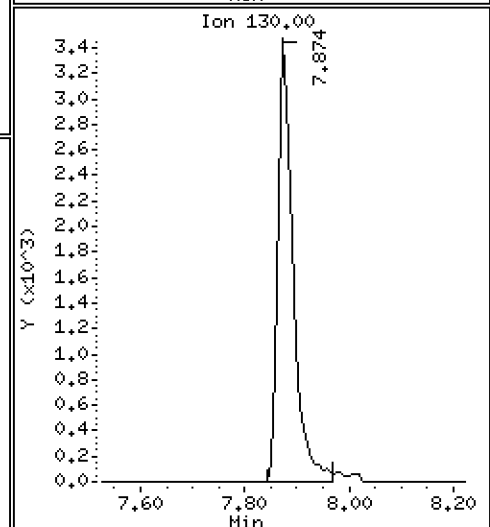
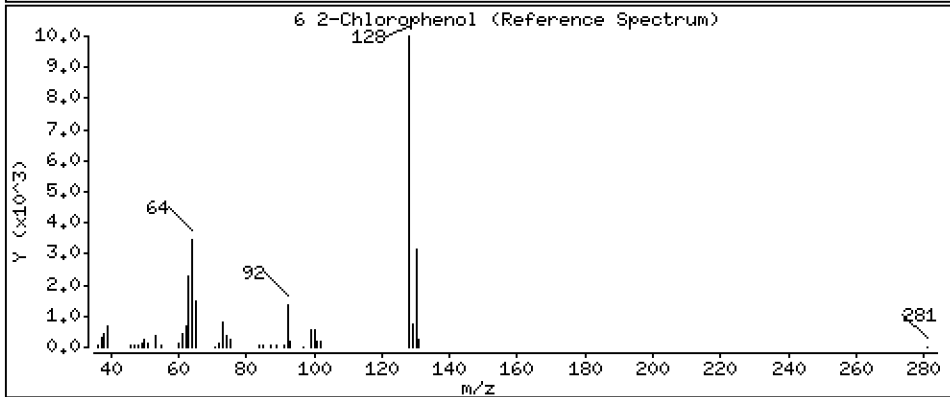
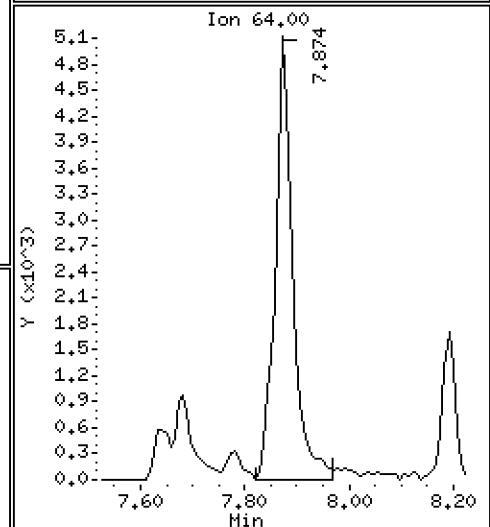
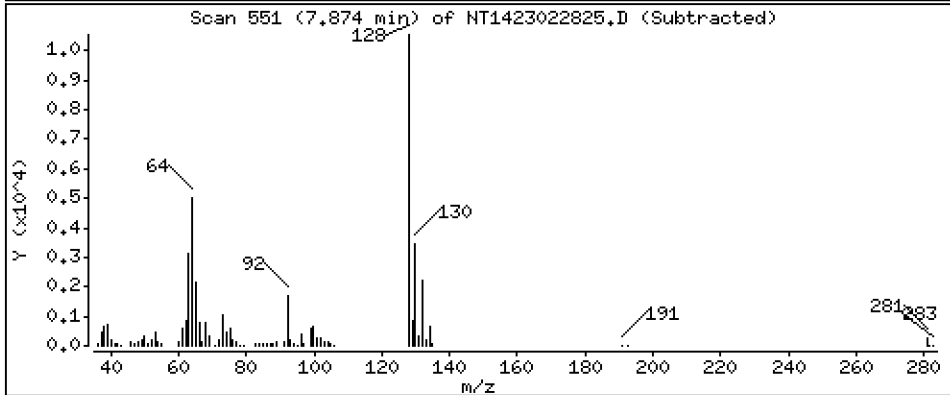
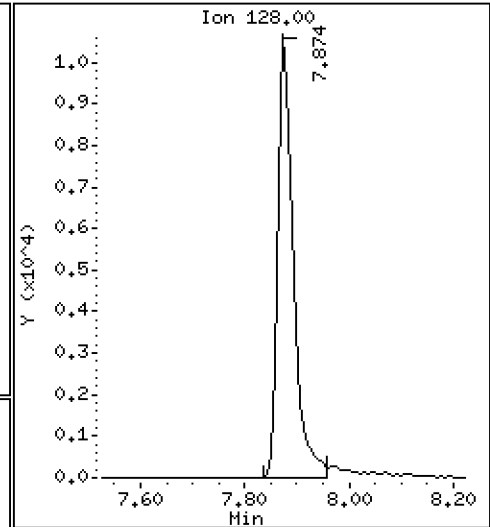
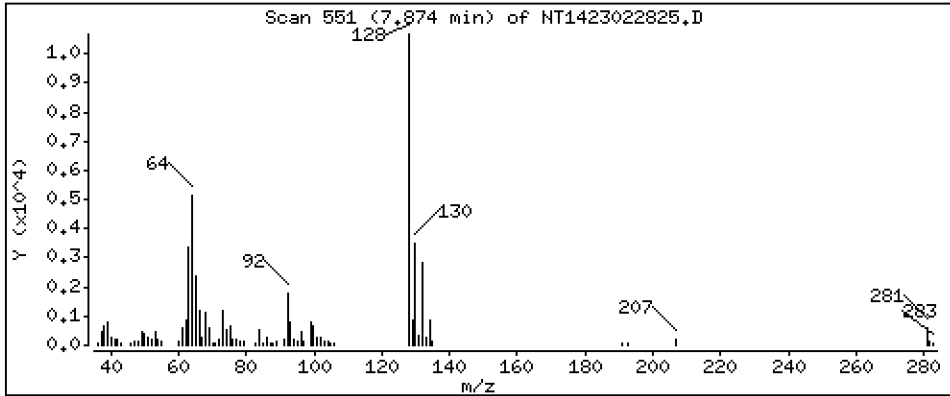
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,4847 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

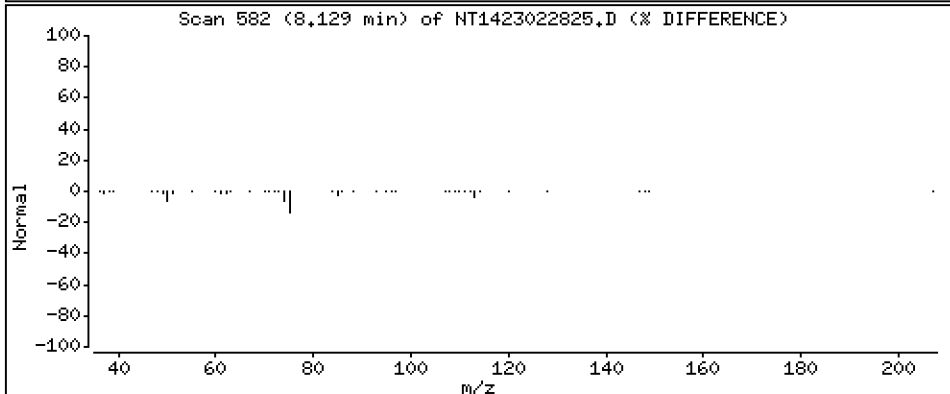
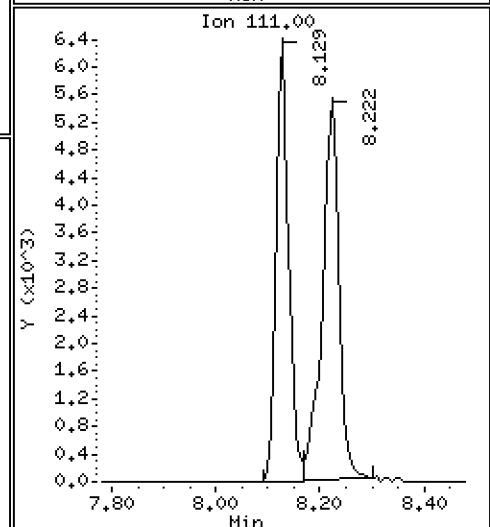
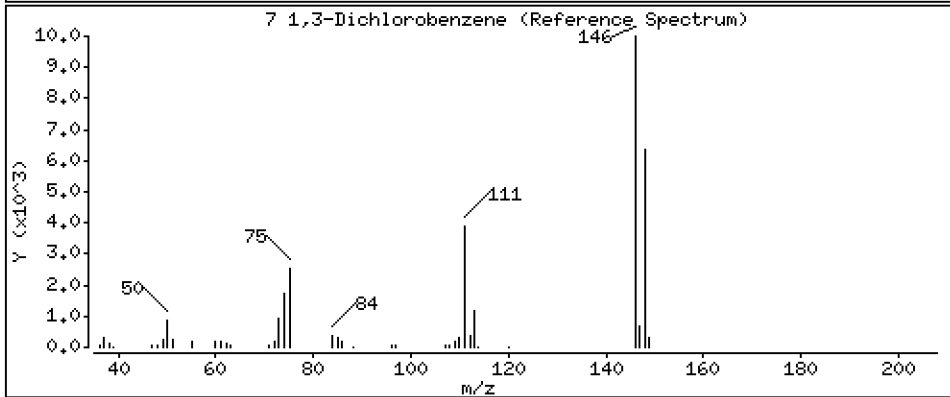
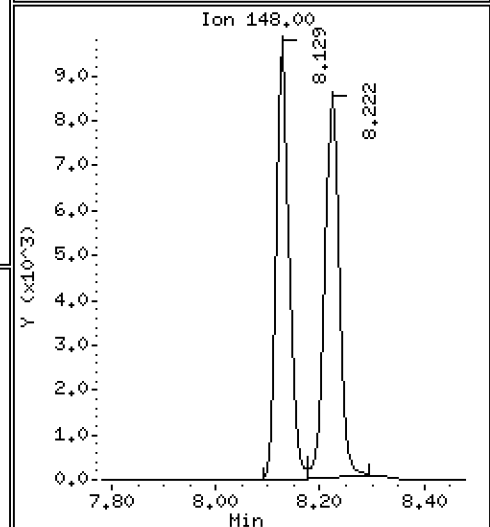
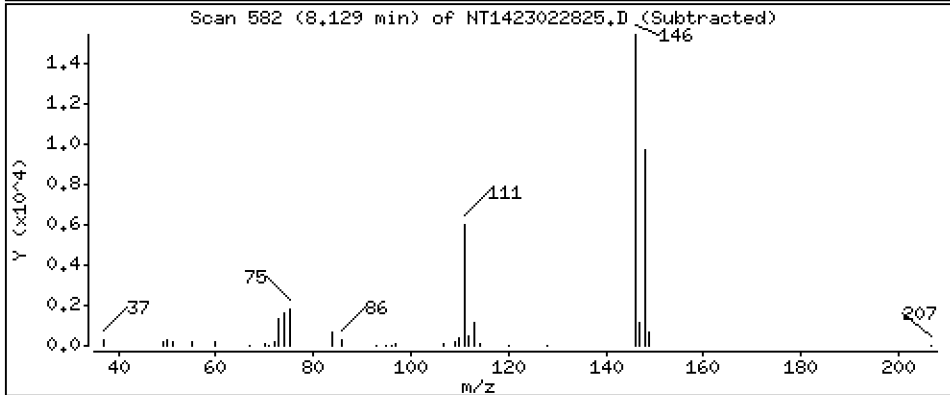
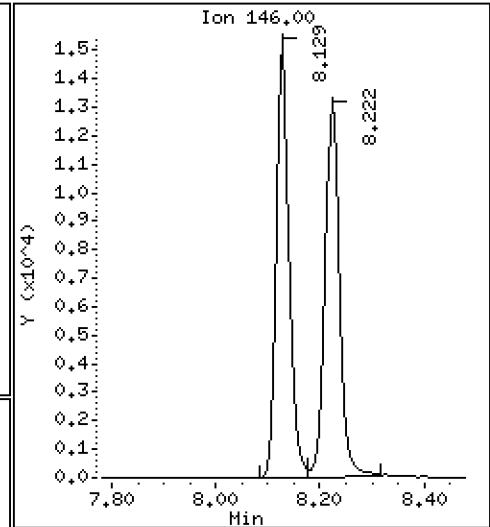
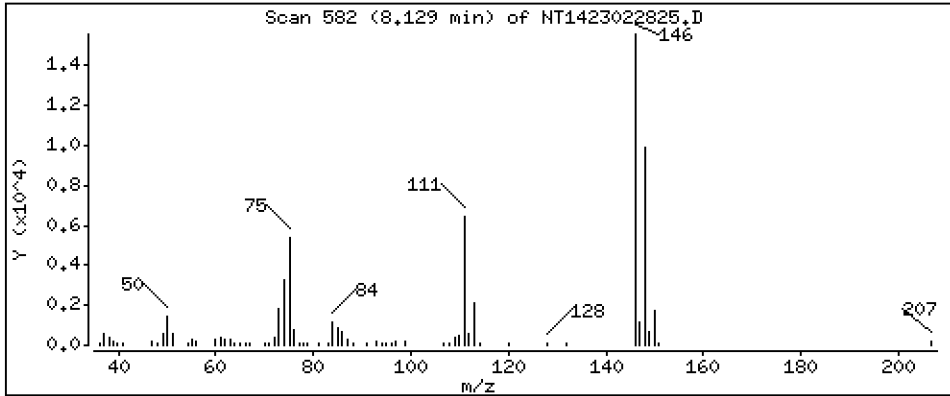
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,5258 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

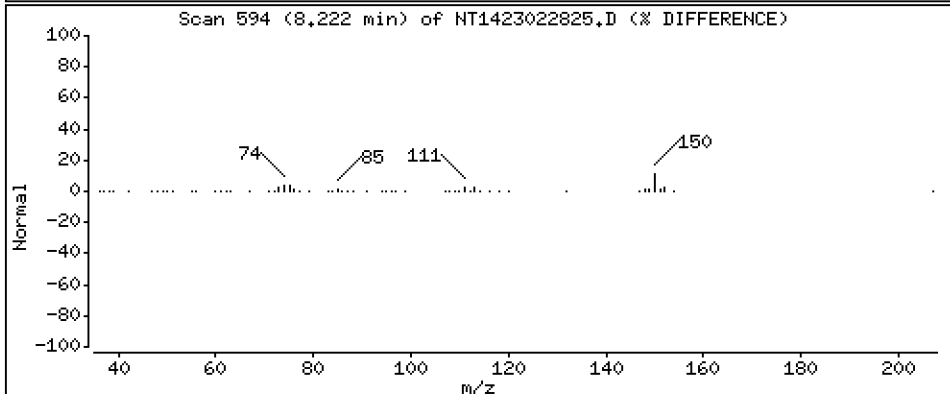
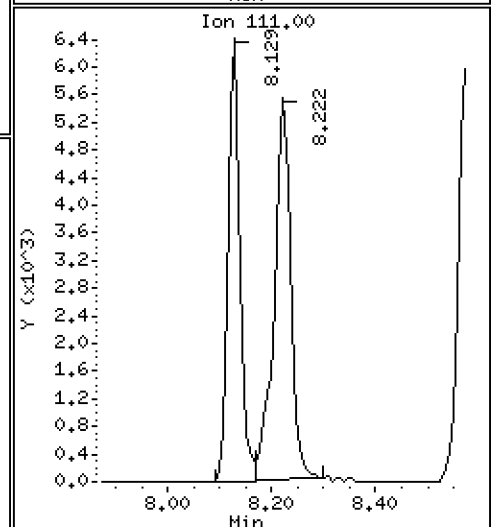
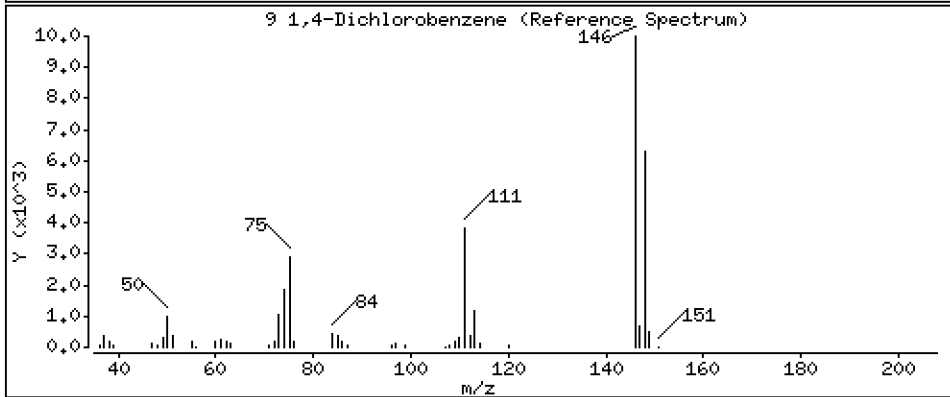
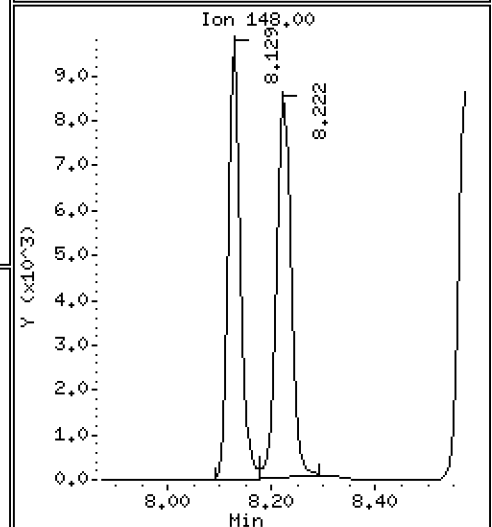
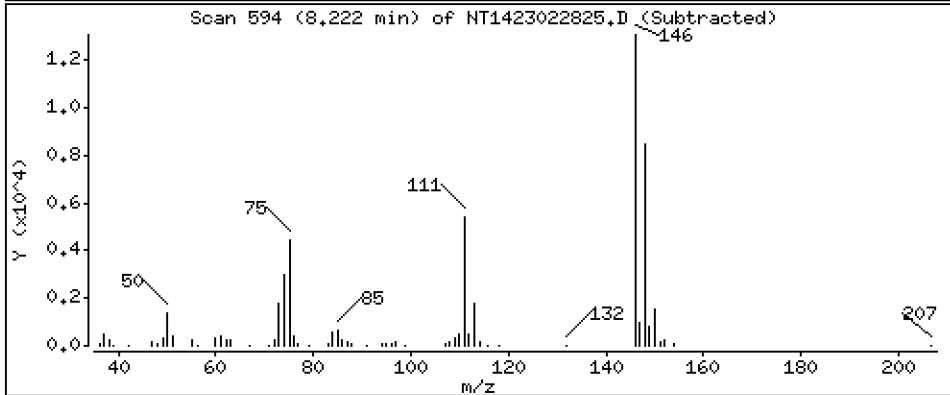
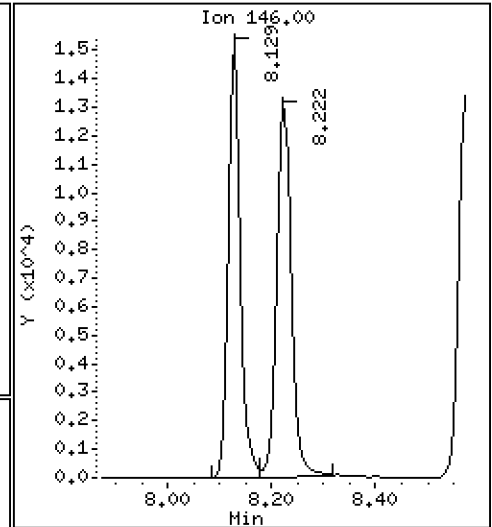
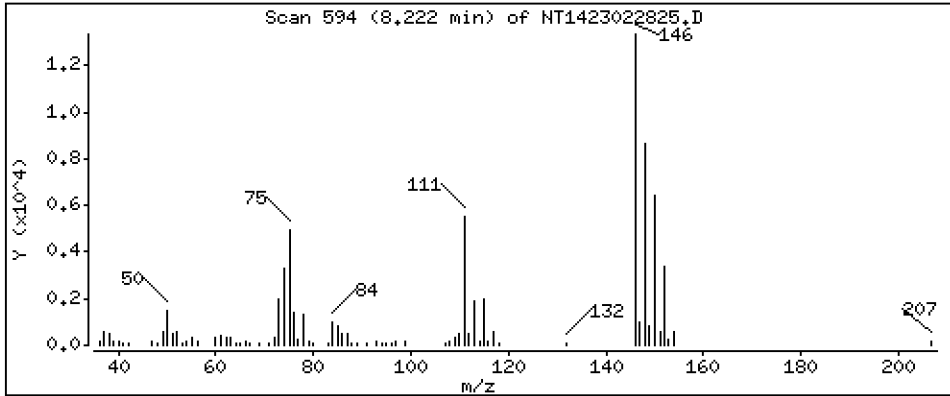
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,5052 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

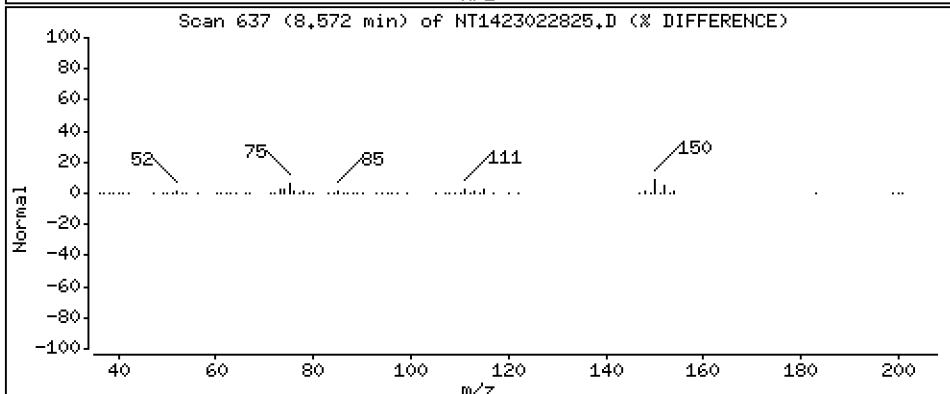
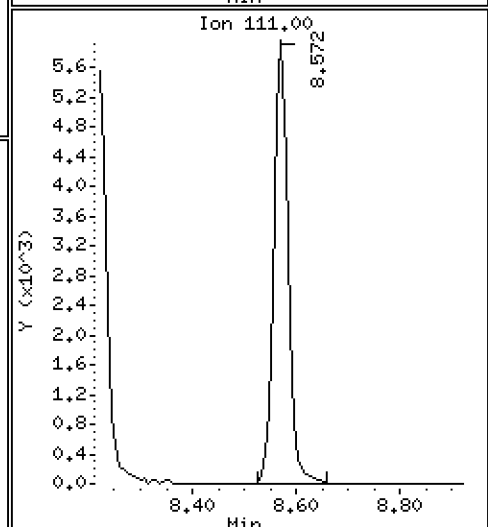
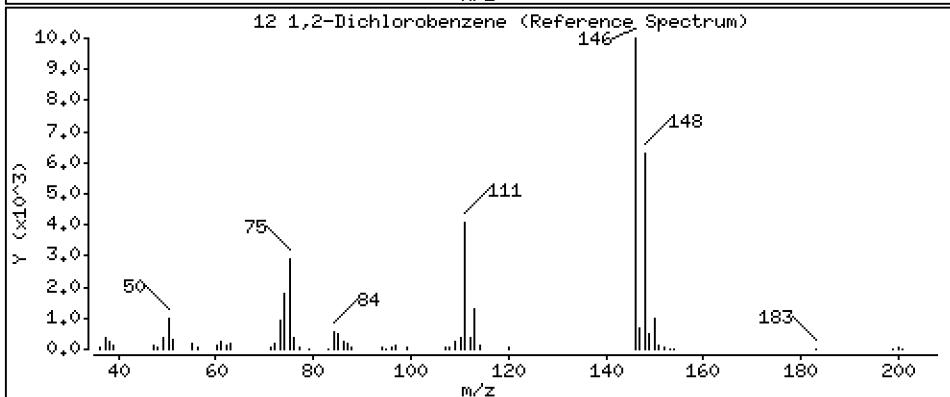
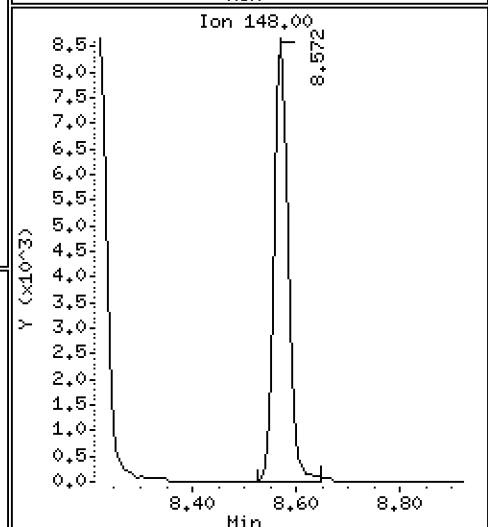
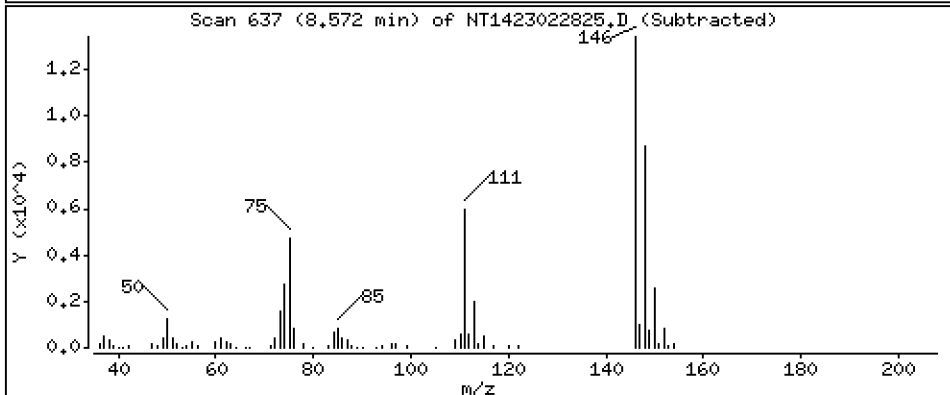
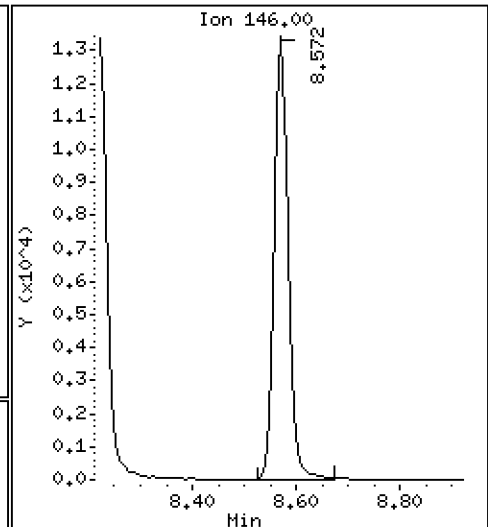
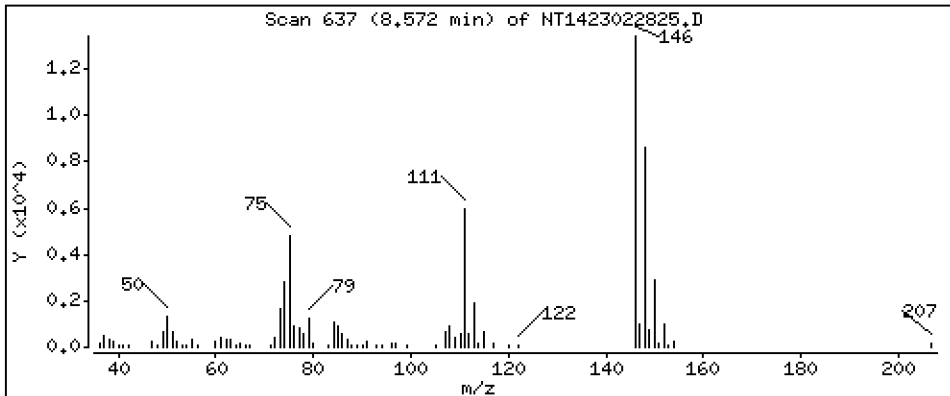
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,5209 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

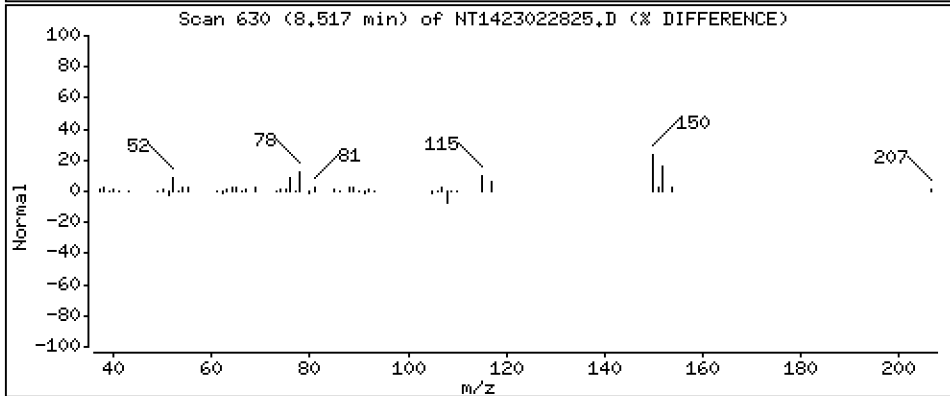
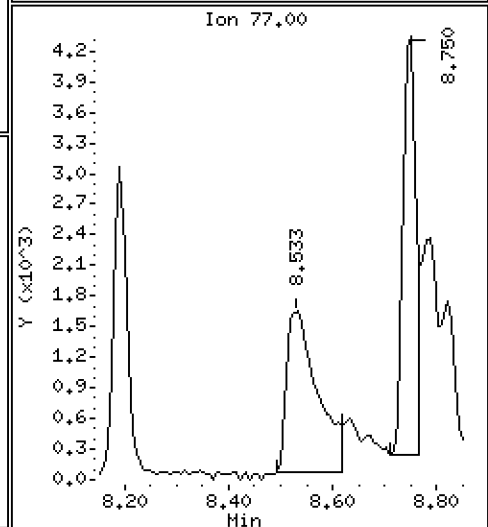
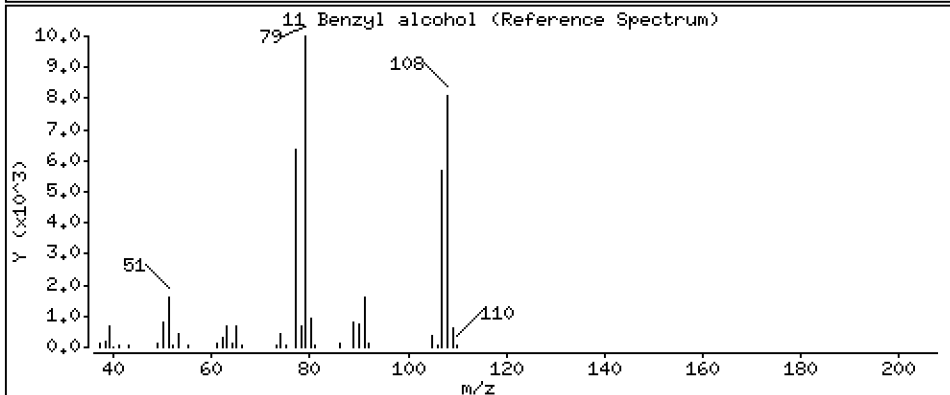
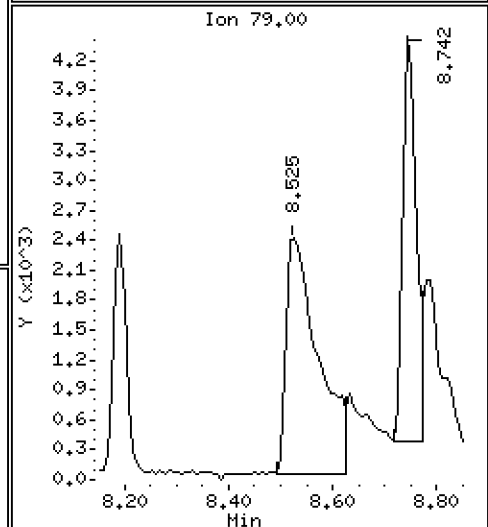
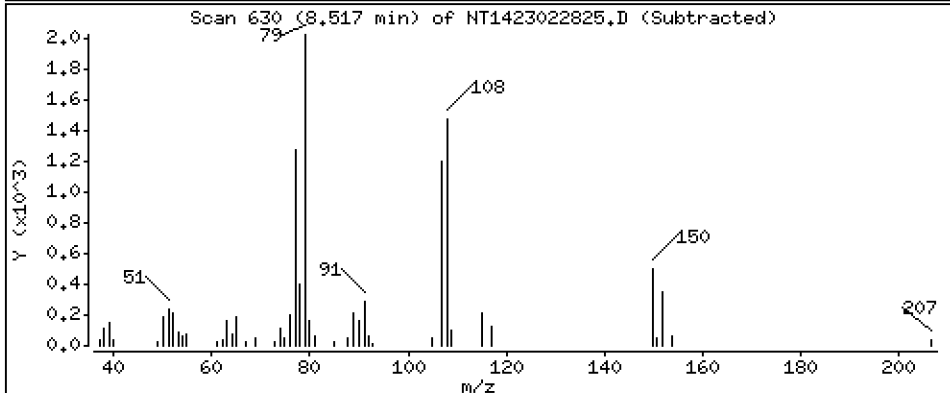
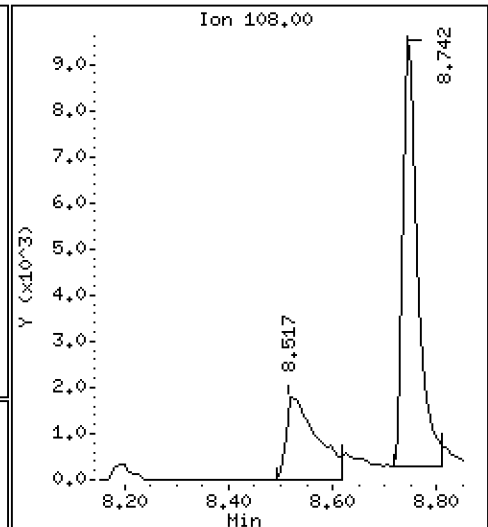
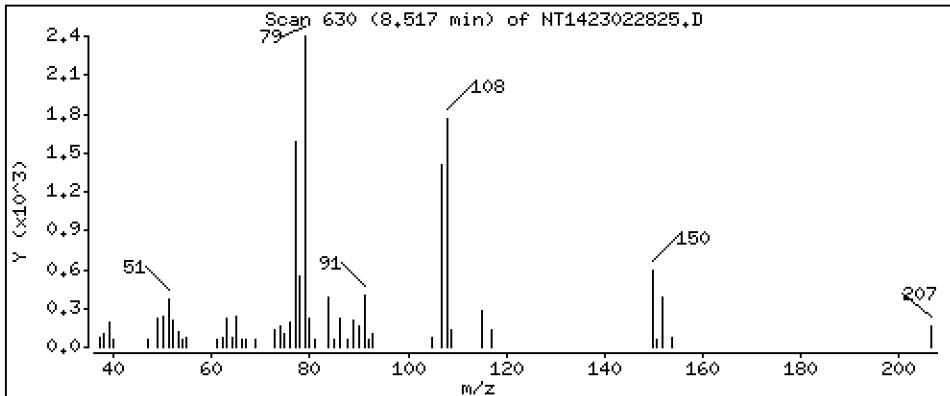
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.2878 ug/mL





Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

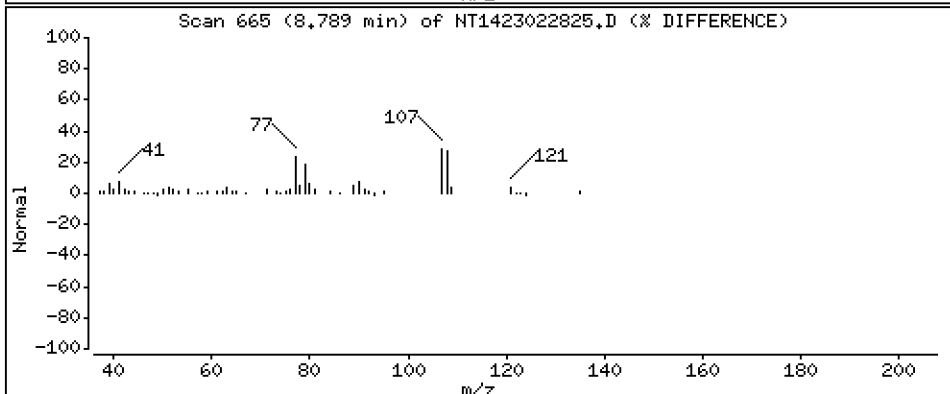
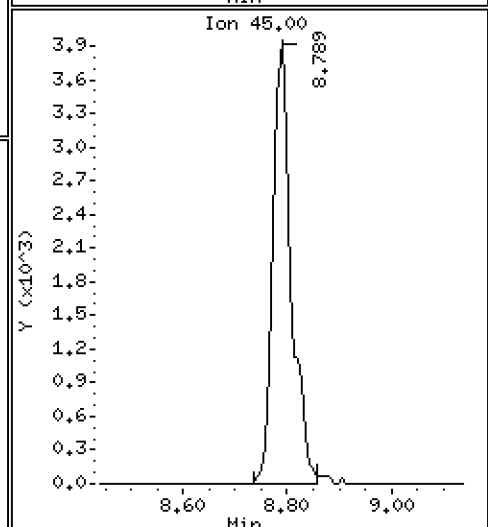
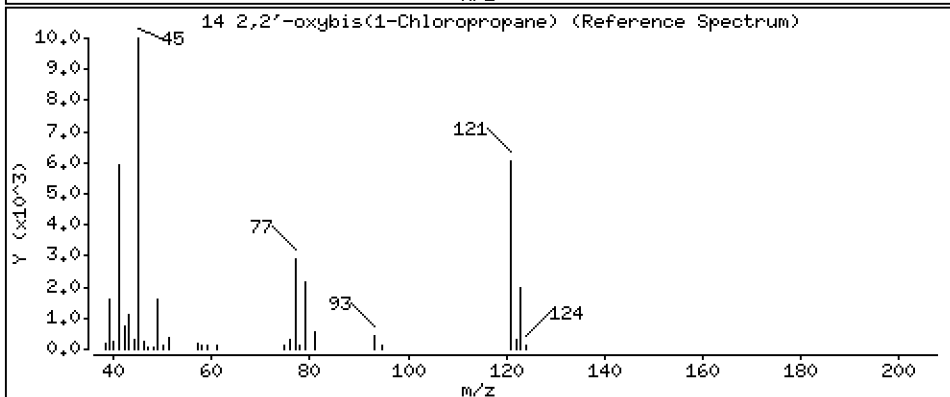
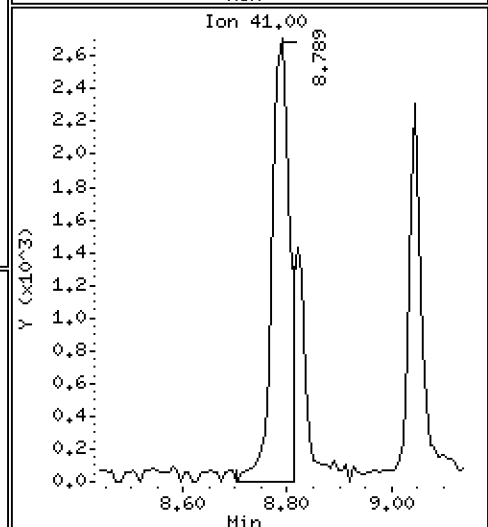
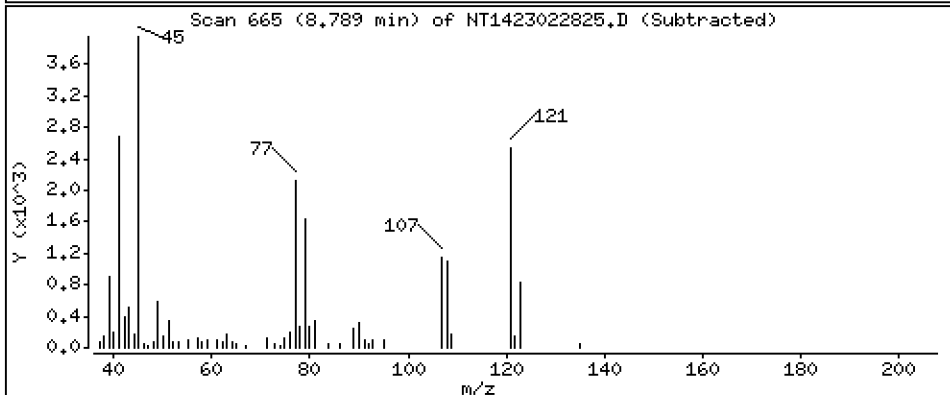
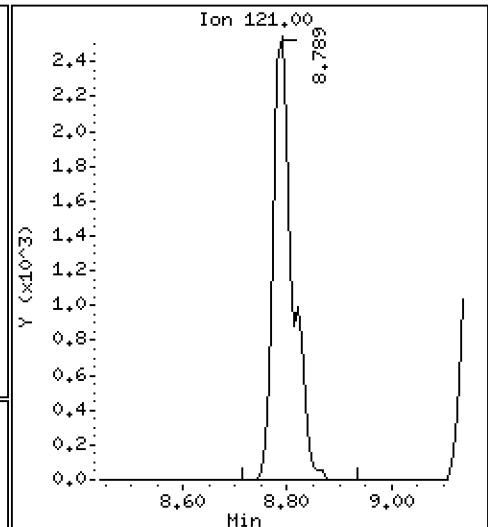
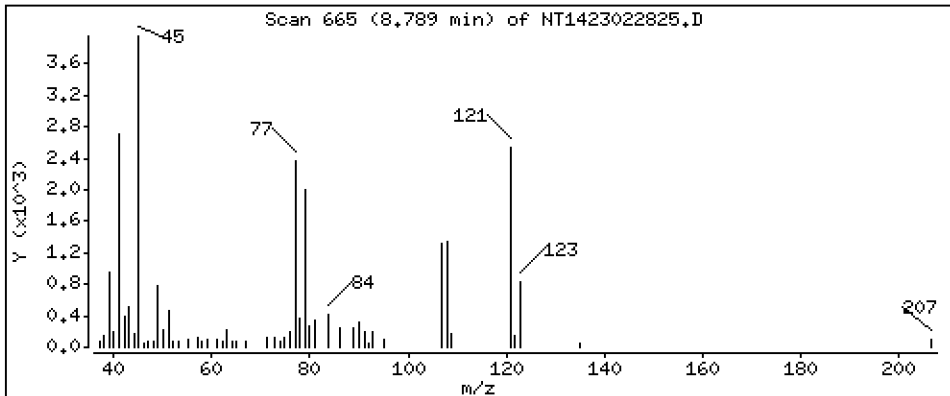
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 0,5218 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

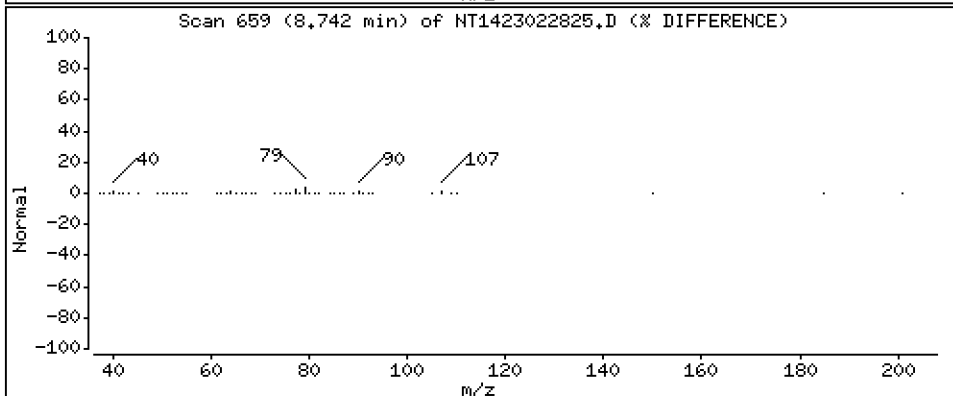
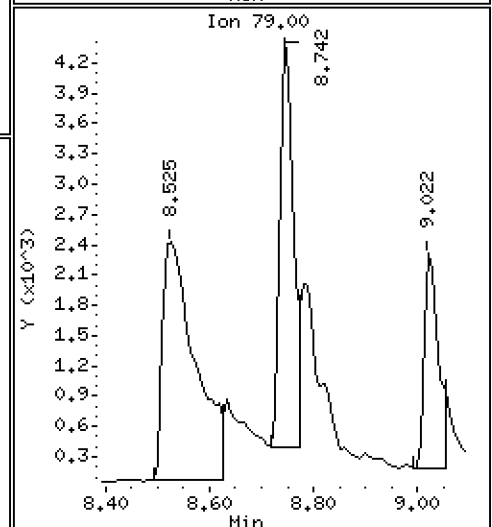
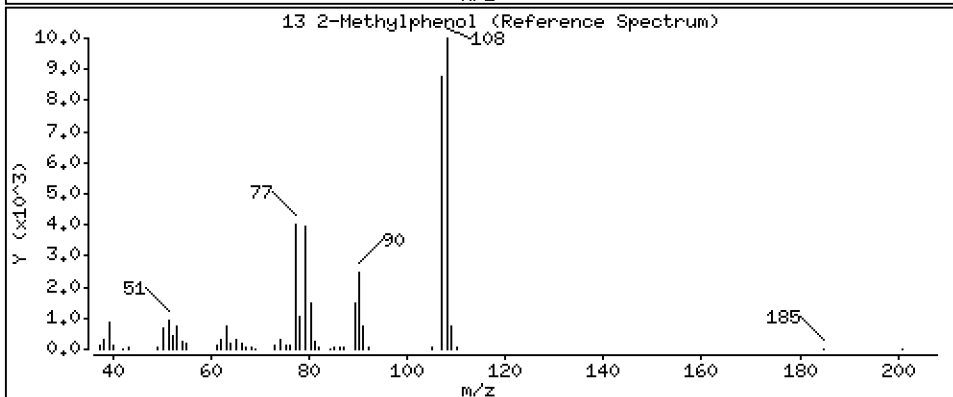
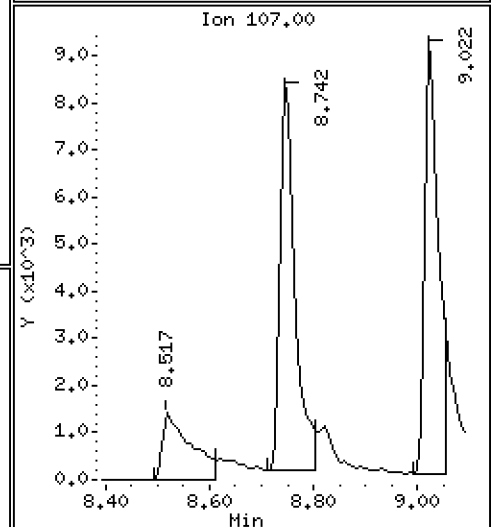
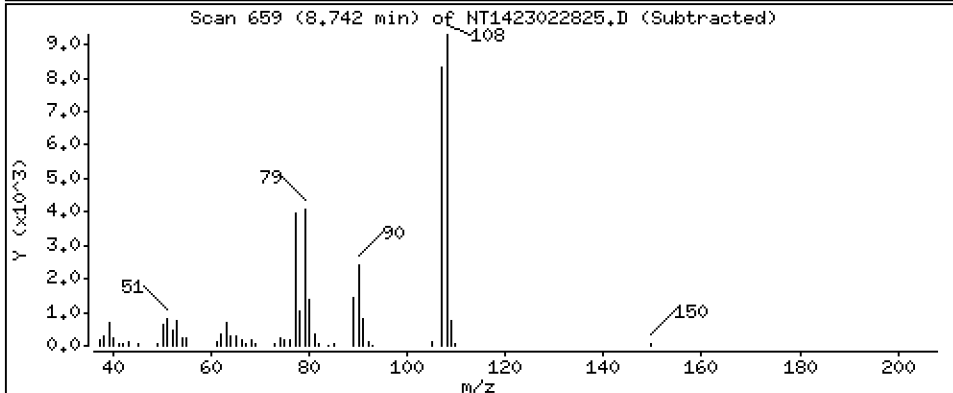
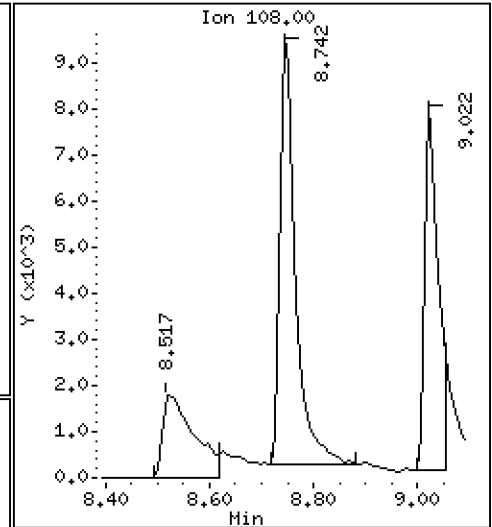
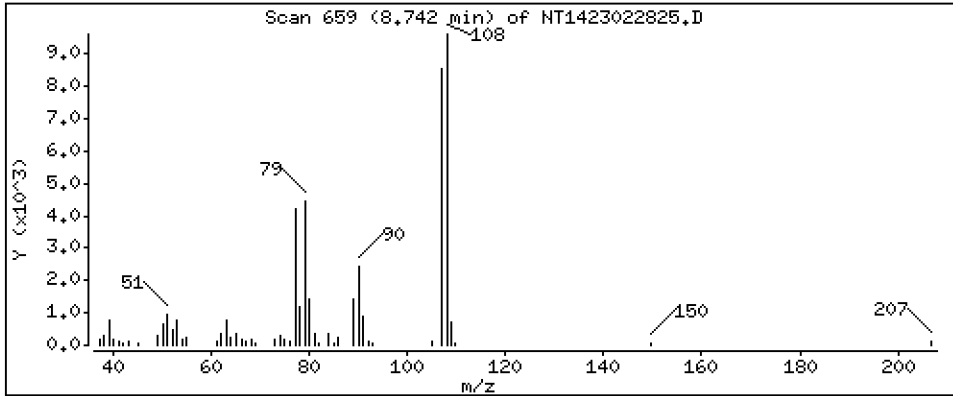
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,4938 ug/mL

13 2-Methylphenol



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

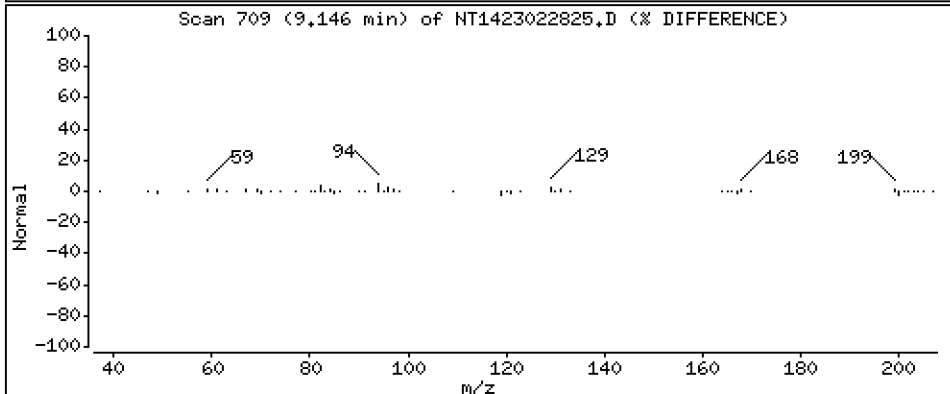
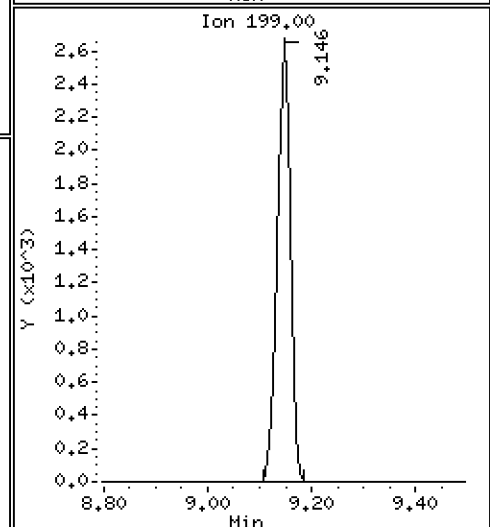
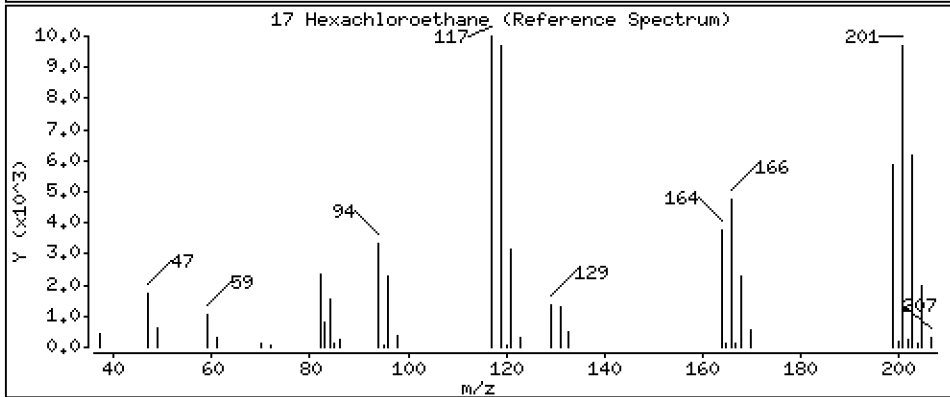
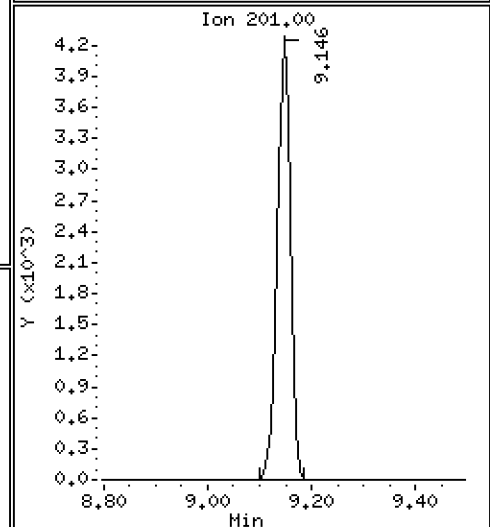
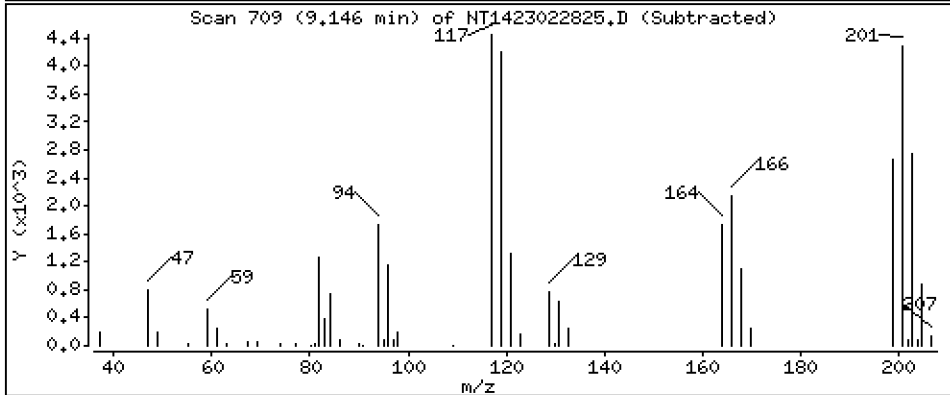
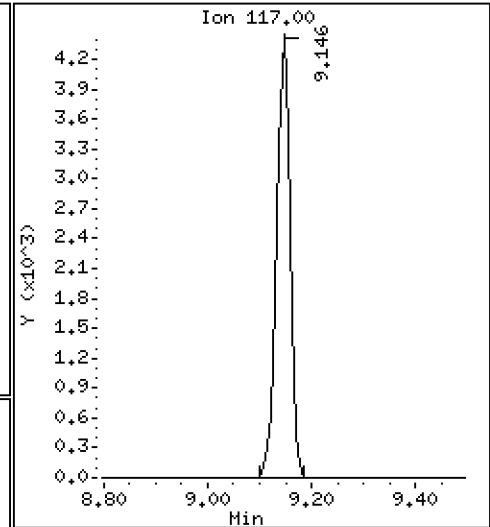
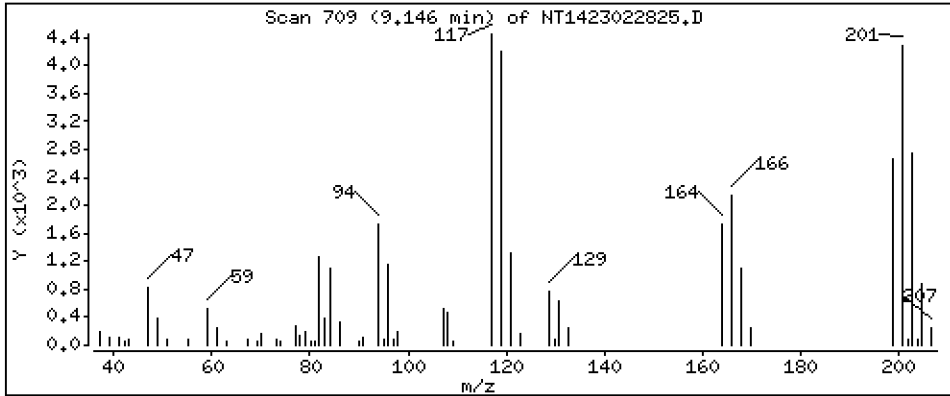
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,4200 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

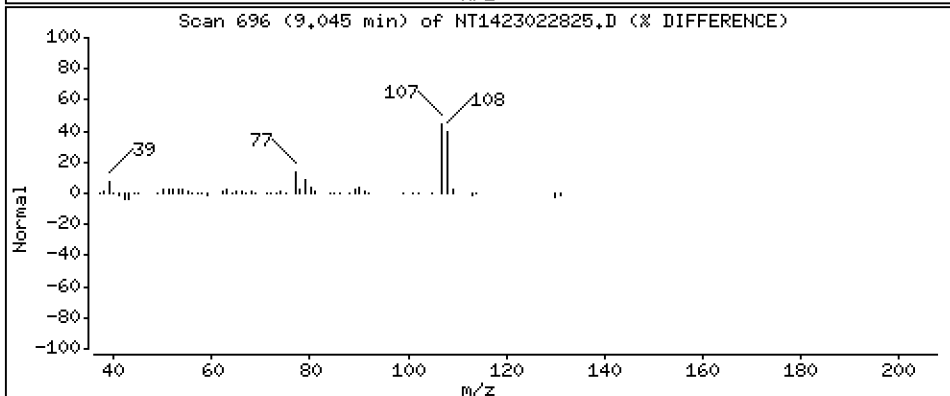
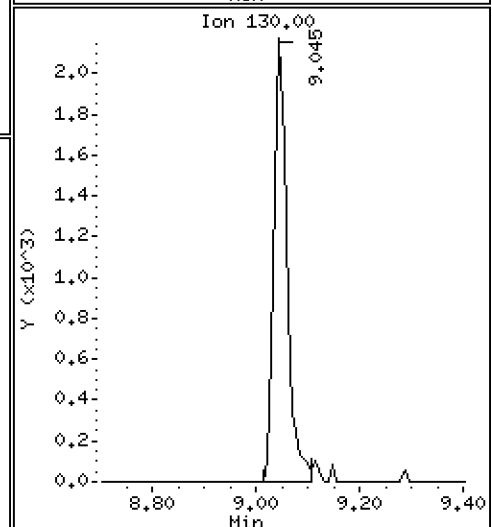
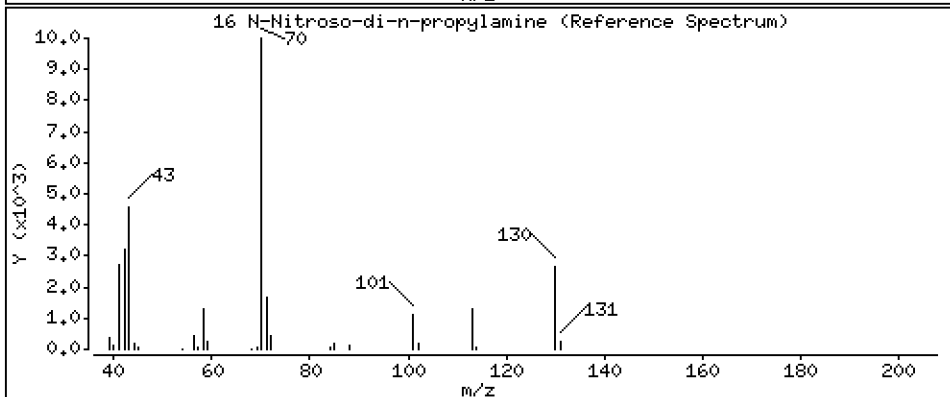
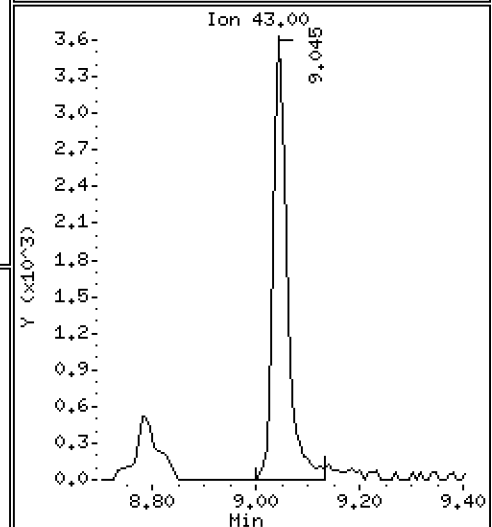
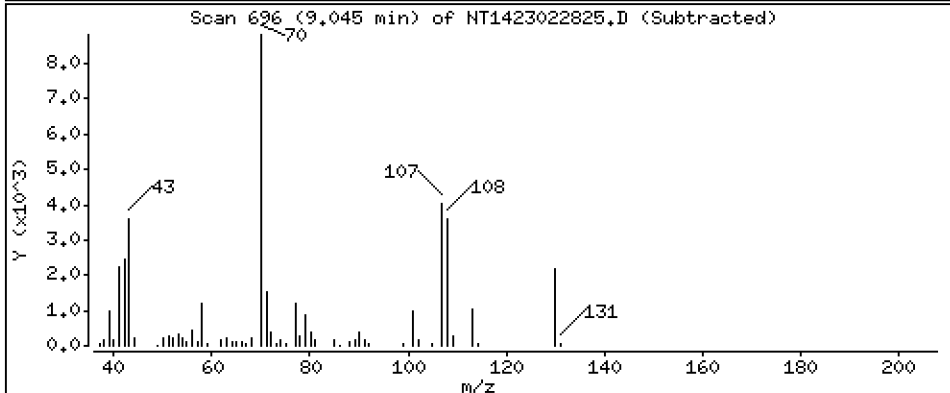
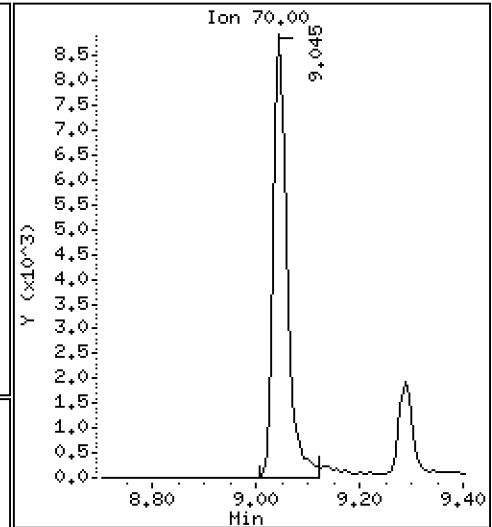
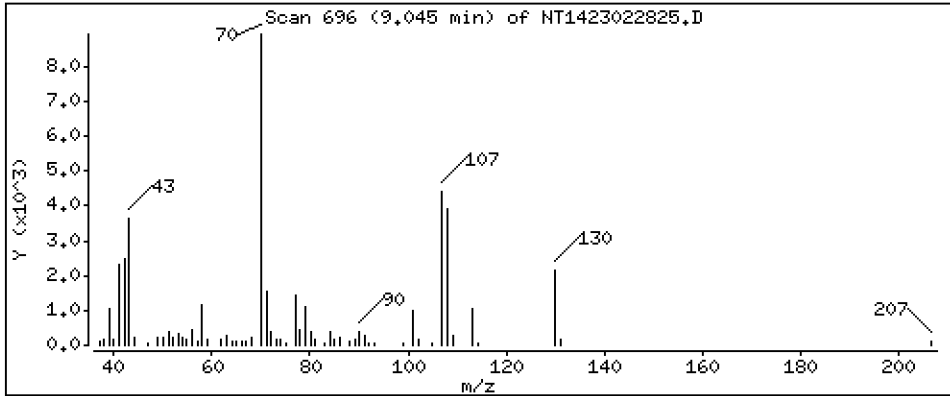
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,5482 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

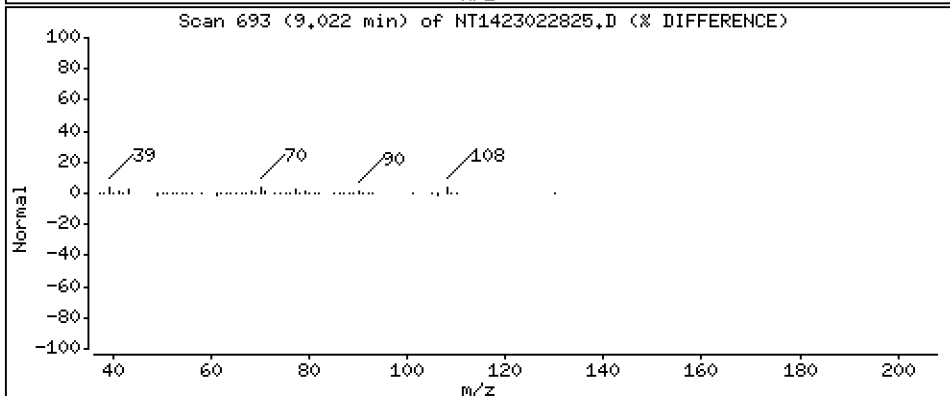
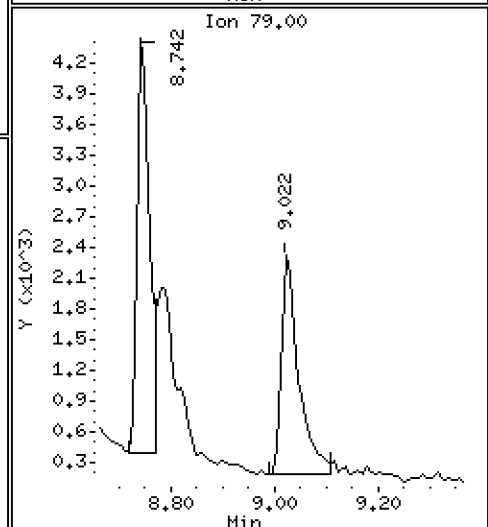
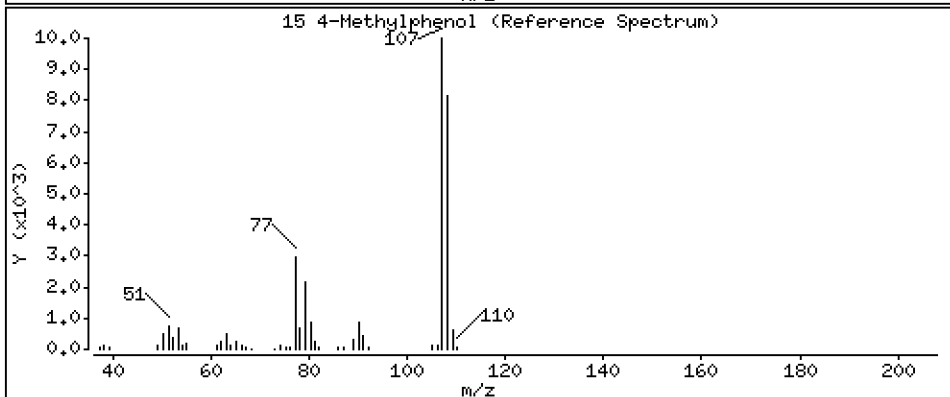
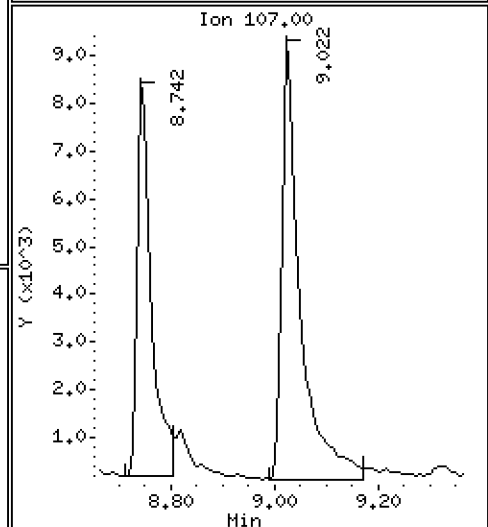
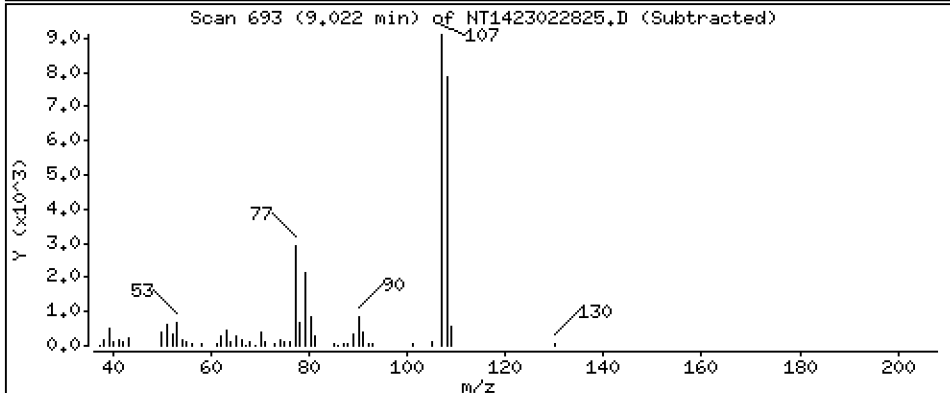
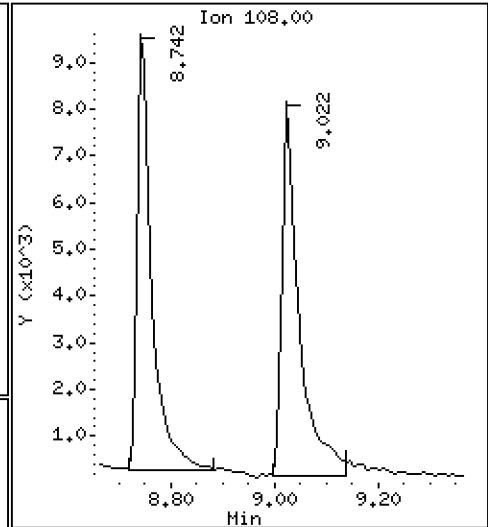
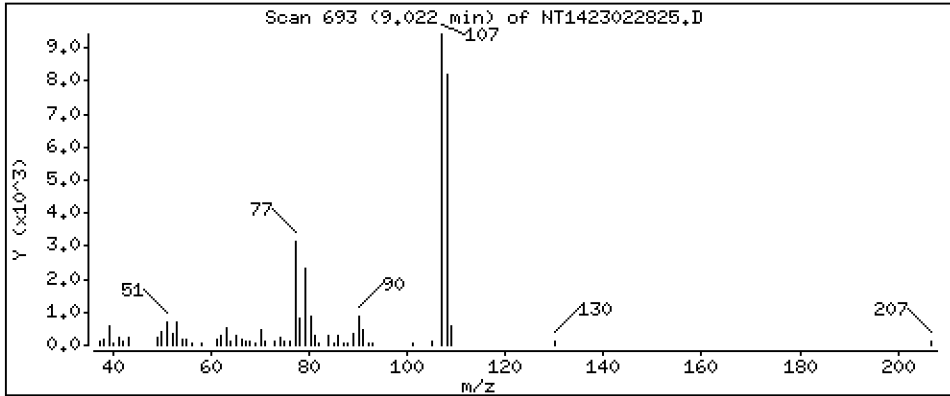
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,4219 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

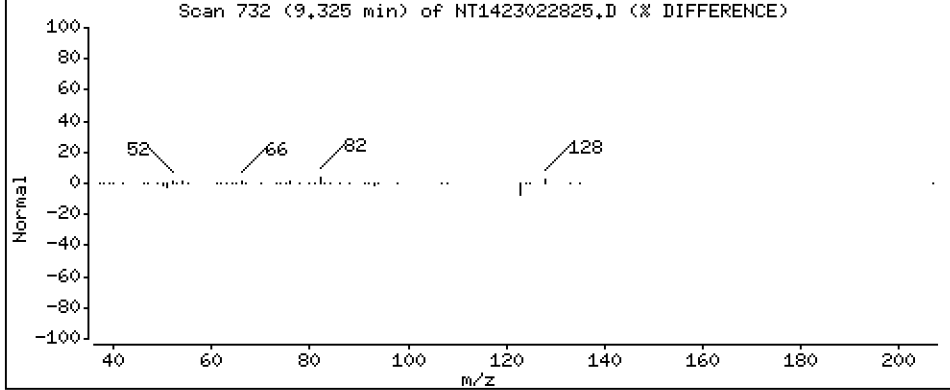
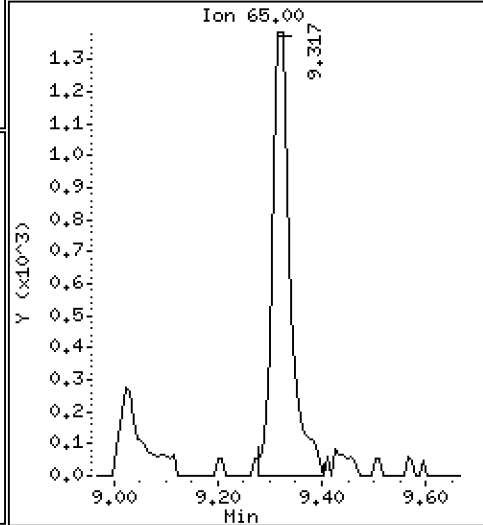
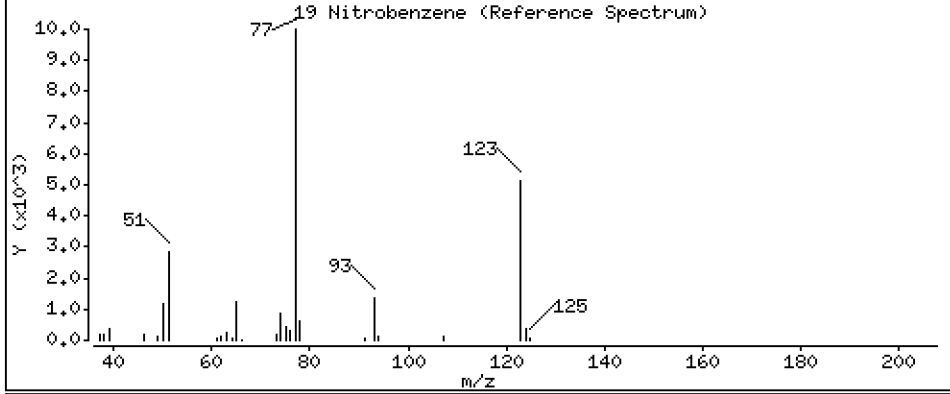
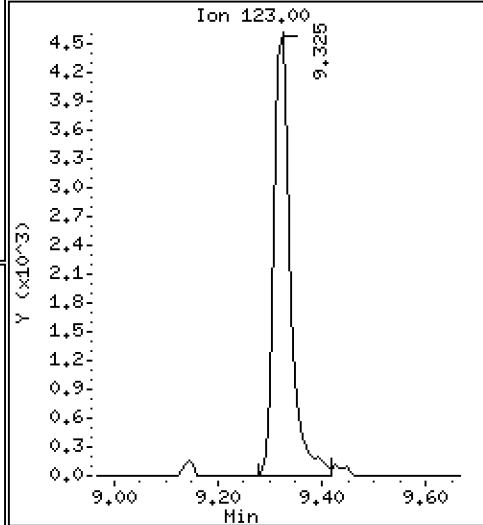
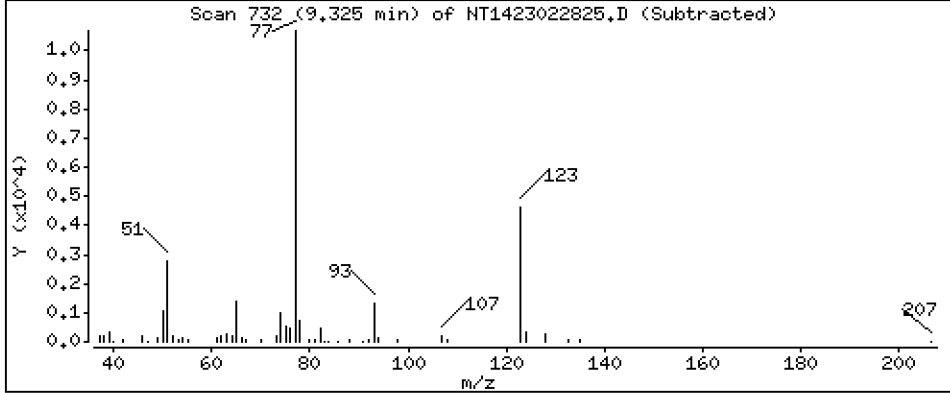
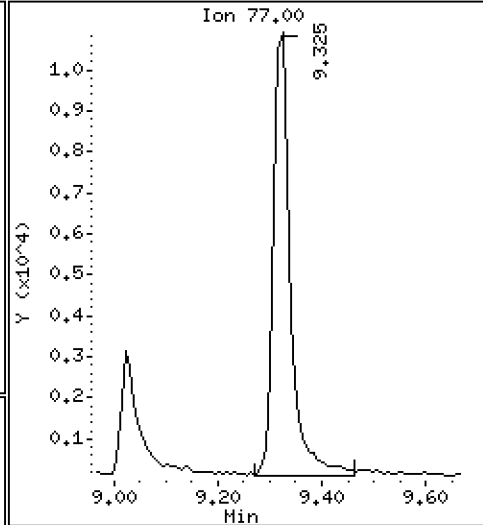
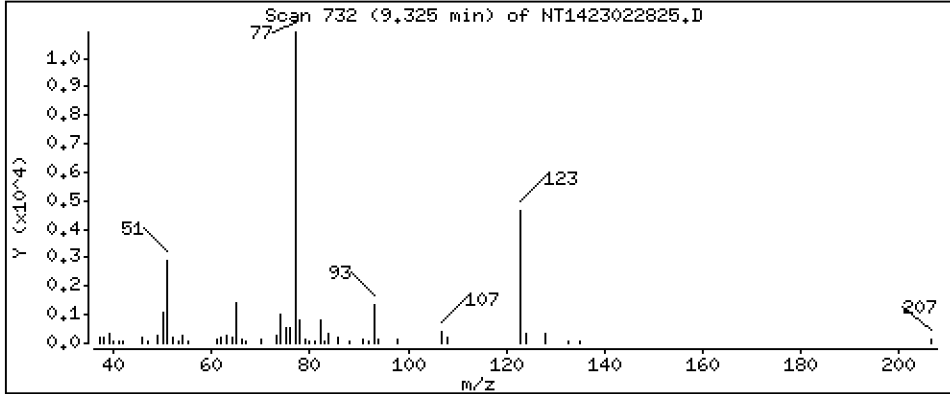
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,5504 ug/mL

19 Nitrobenzene



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

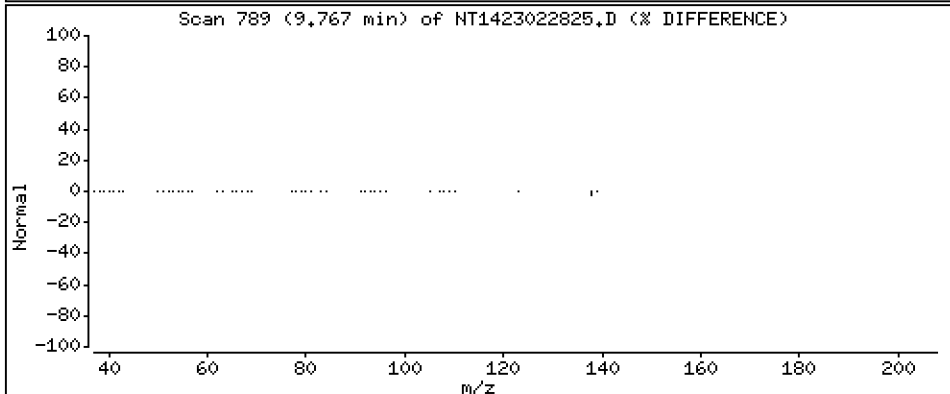
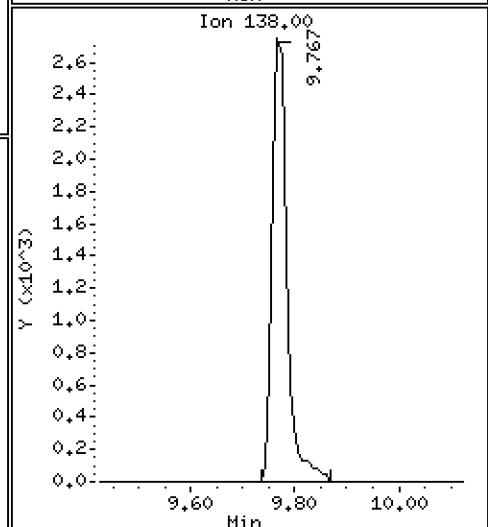
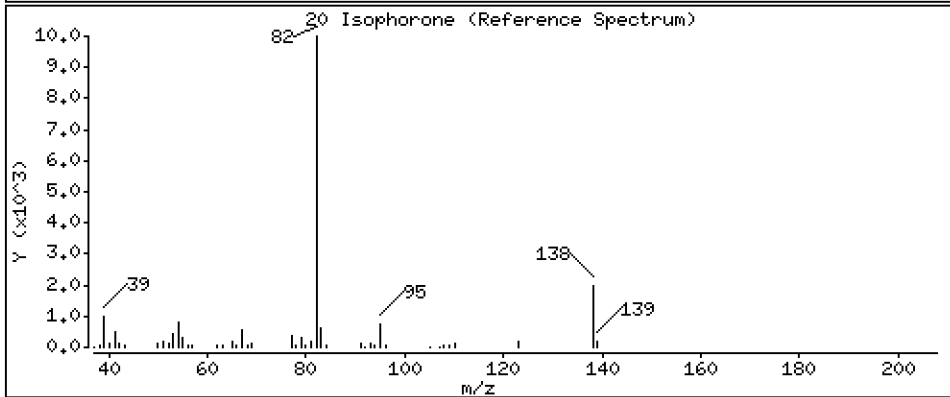
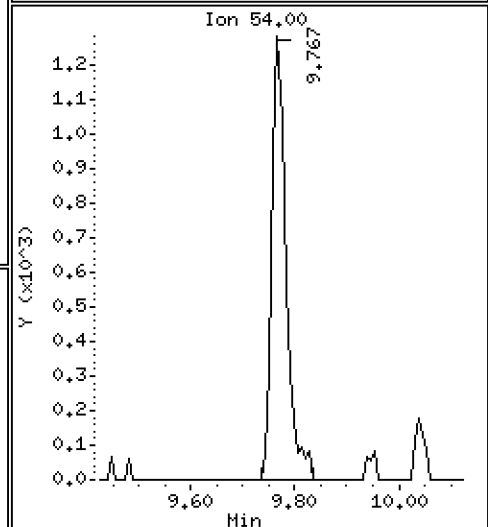
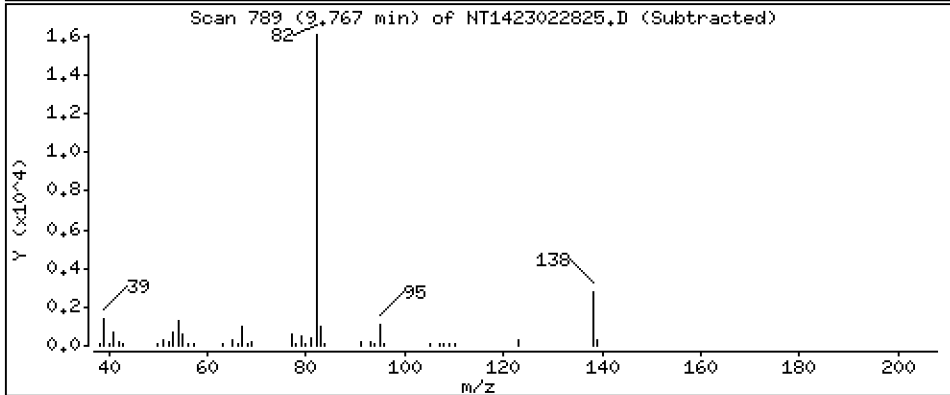
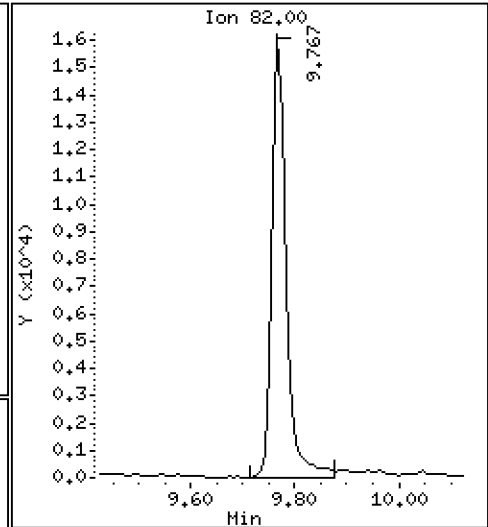
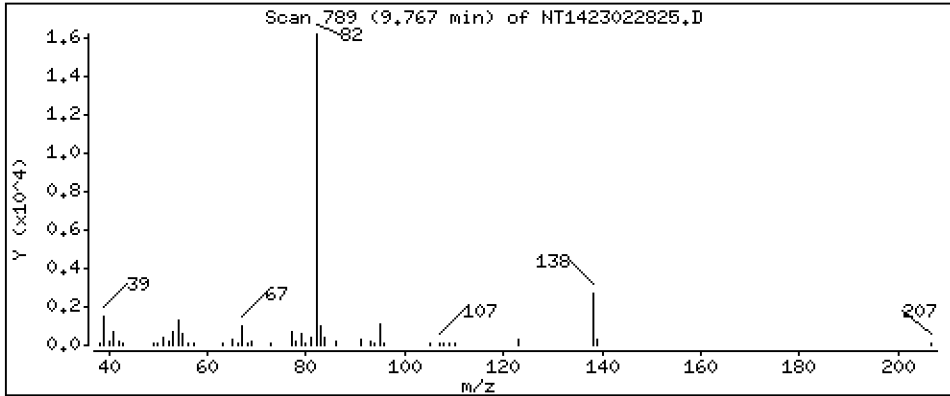
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.4338 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

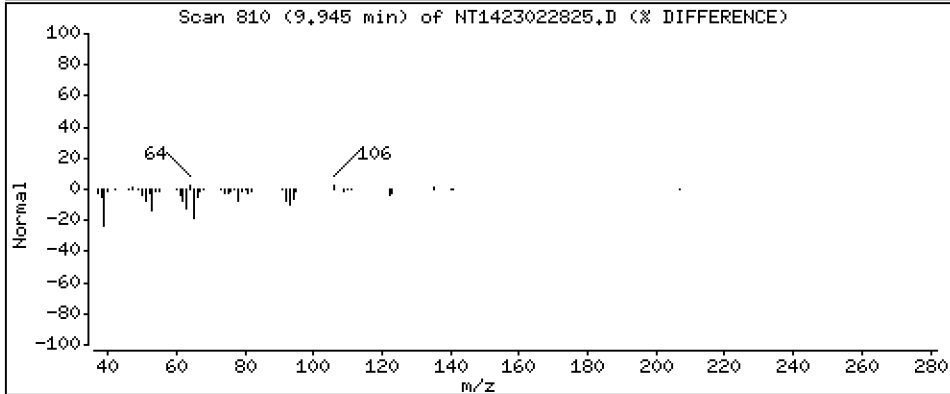
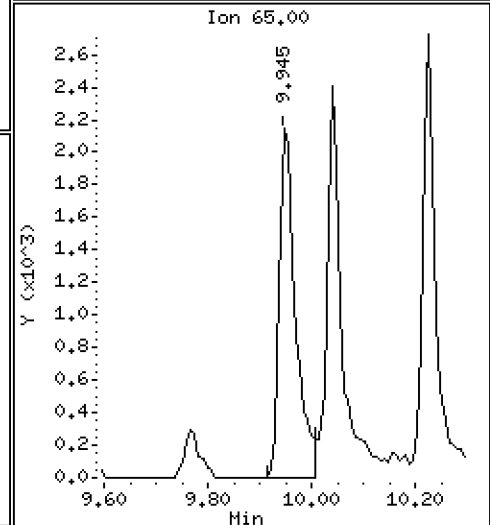
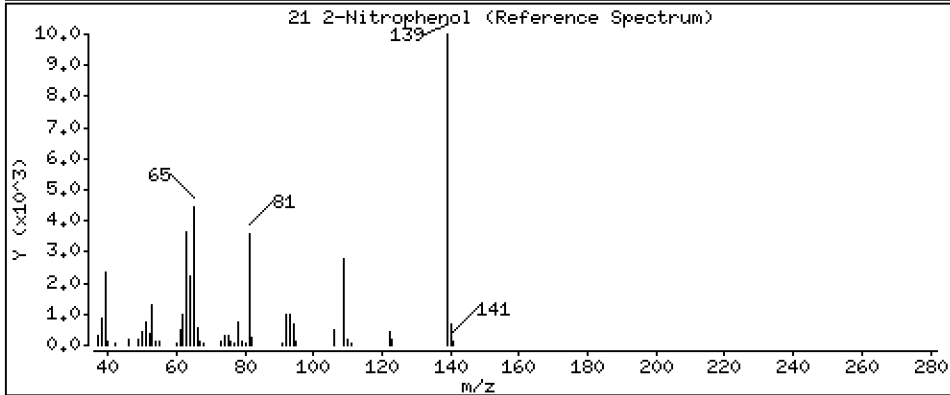
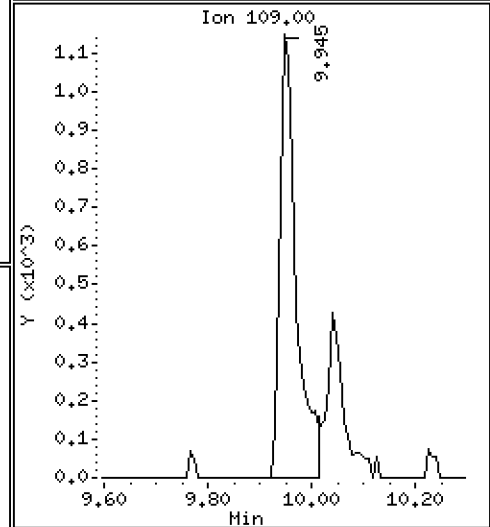
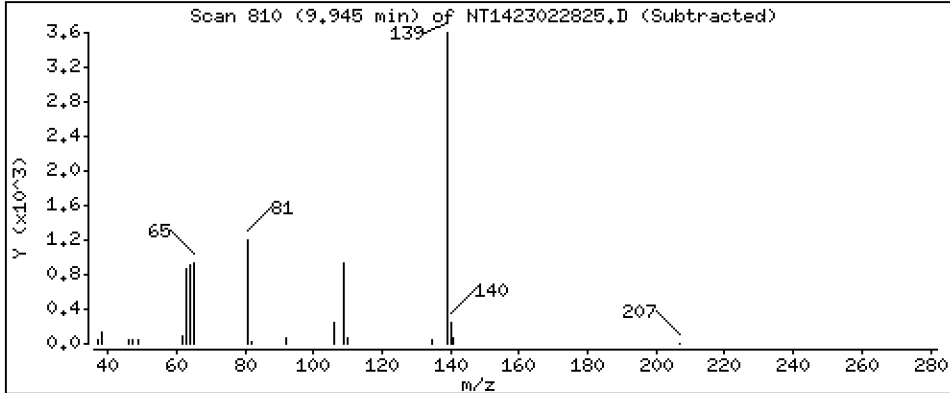
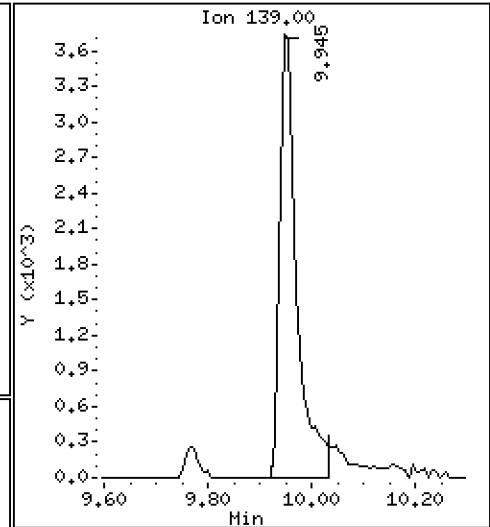
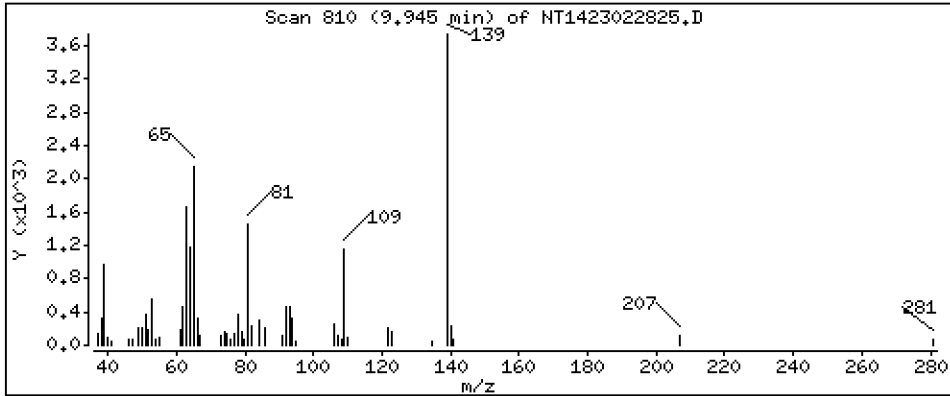
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

21 2-Nitrophenol

Concentration: 0.3734 ug/mL





Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

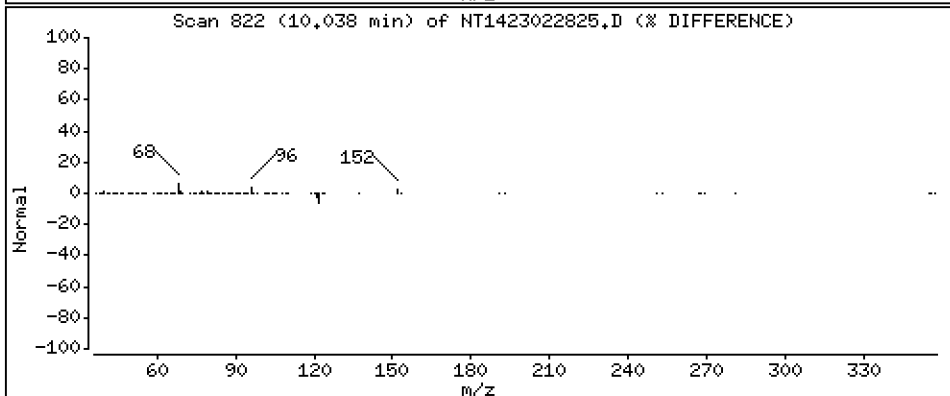
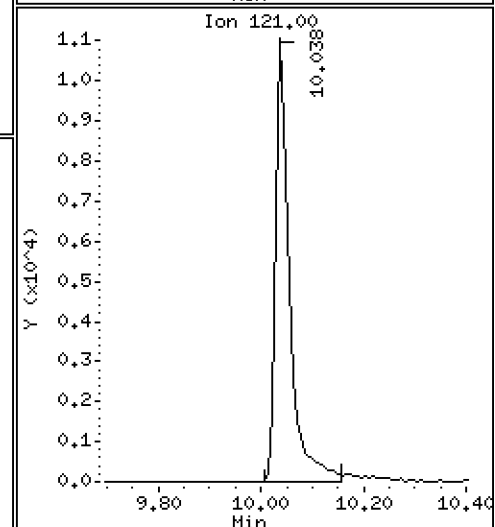
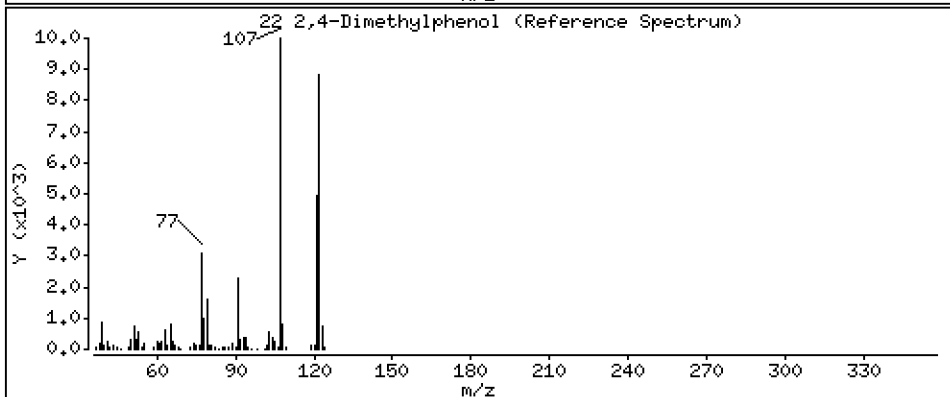
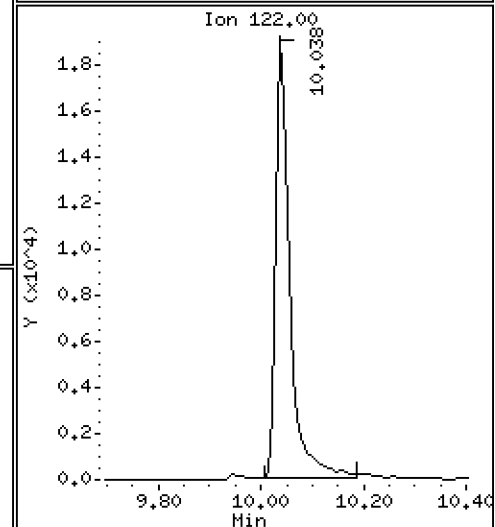
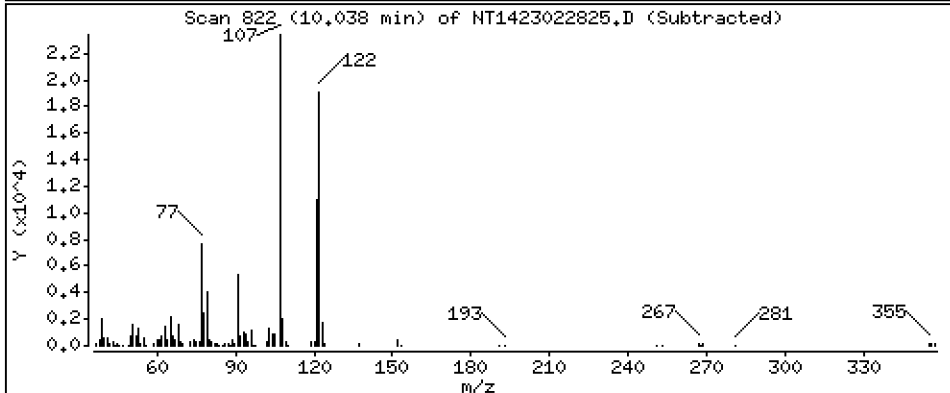
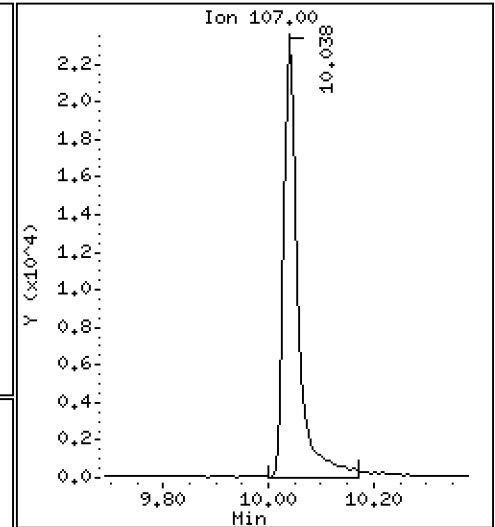
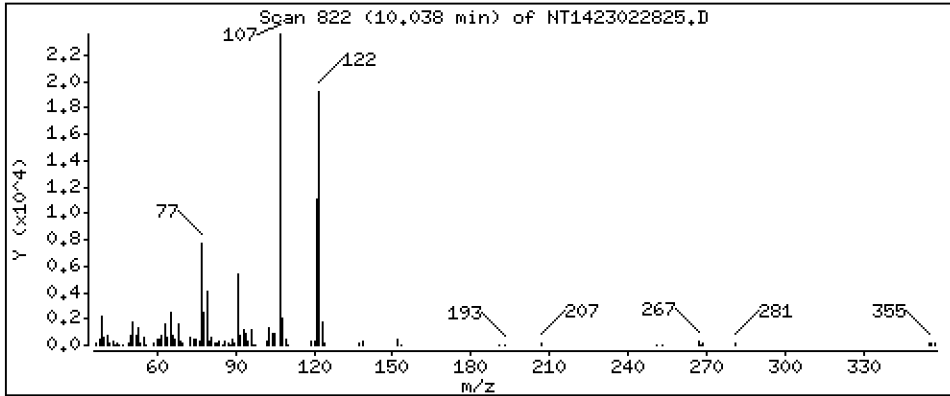
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 1,096 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

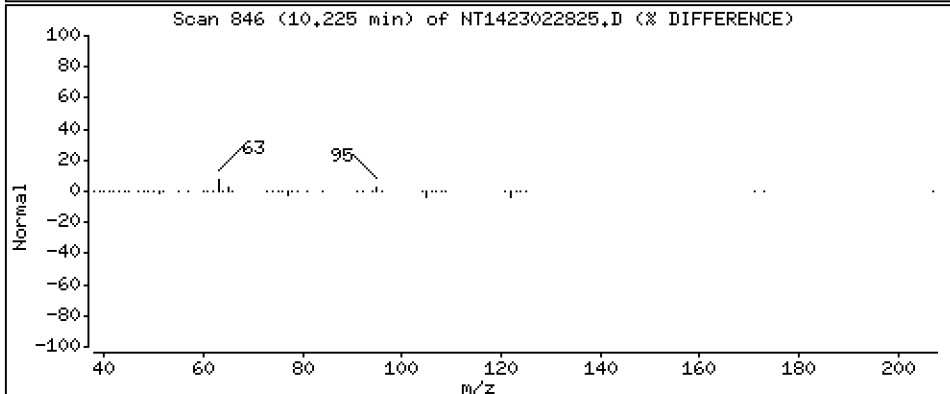
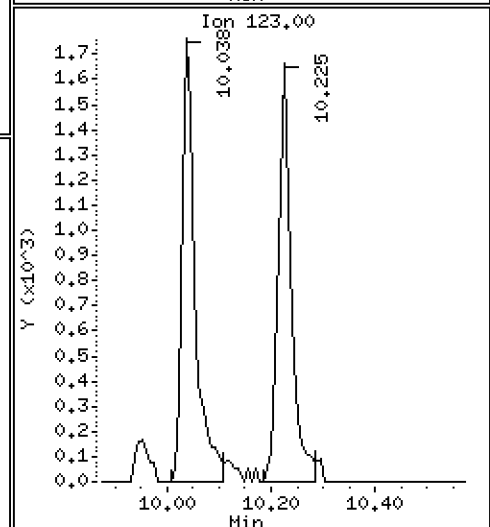
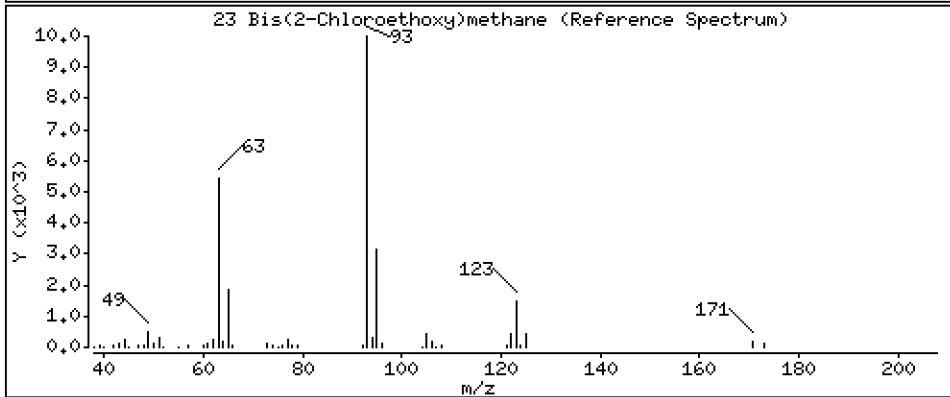
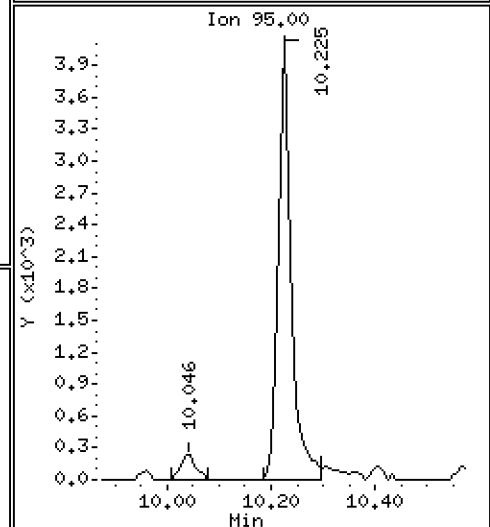
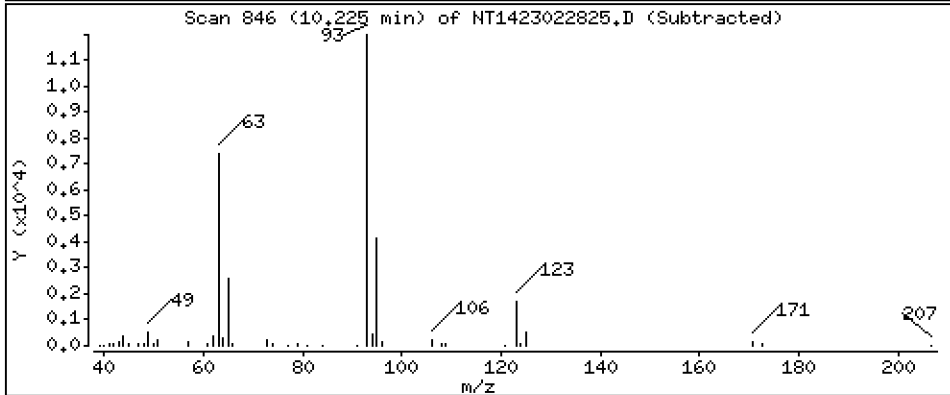
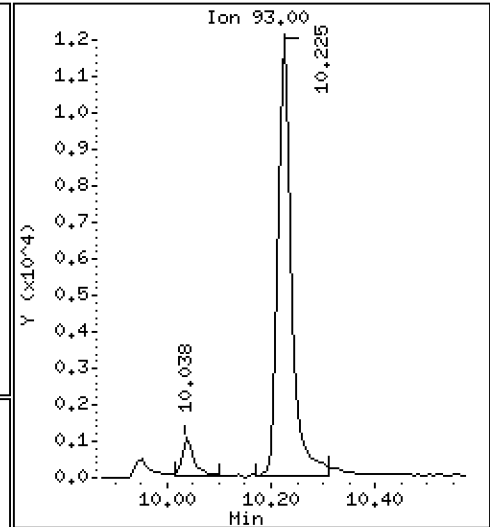
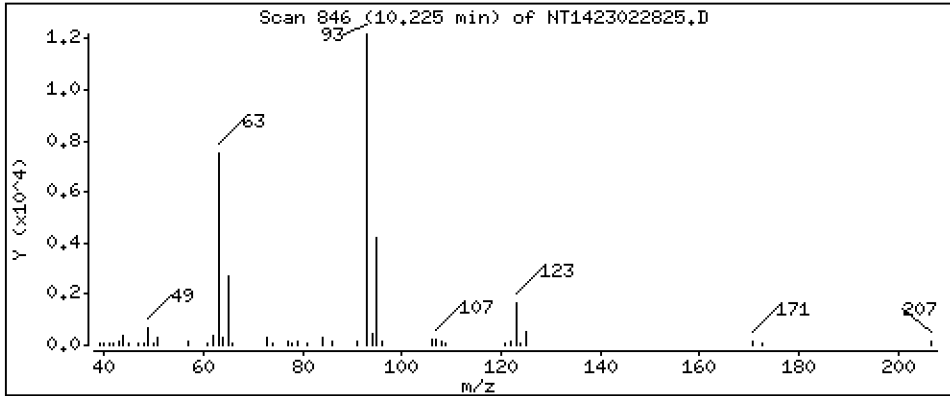
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 0.4979 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

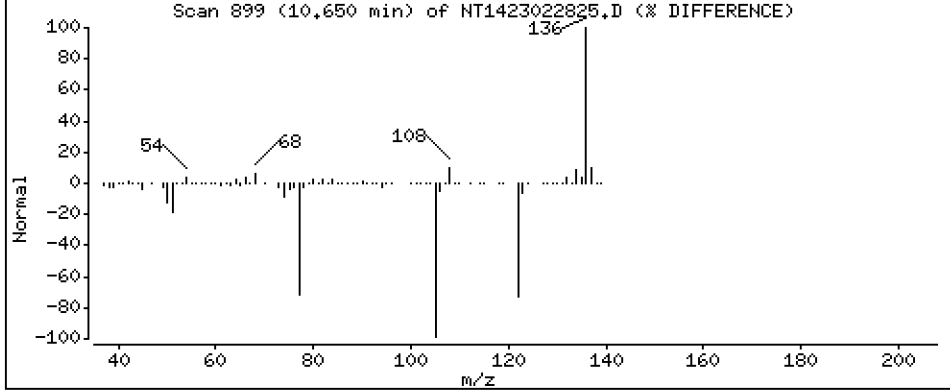
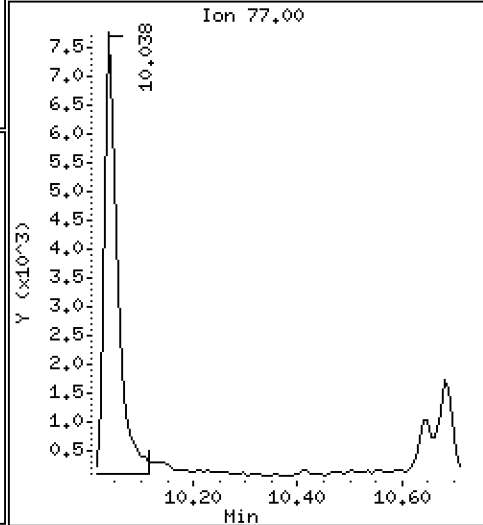
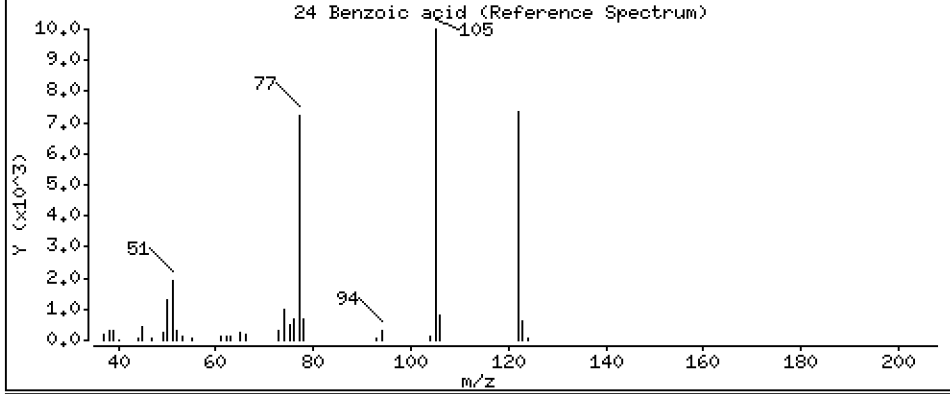
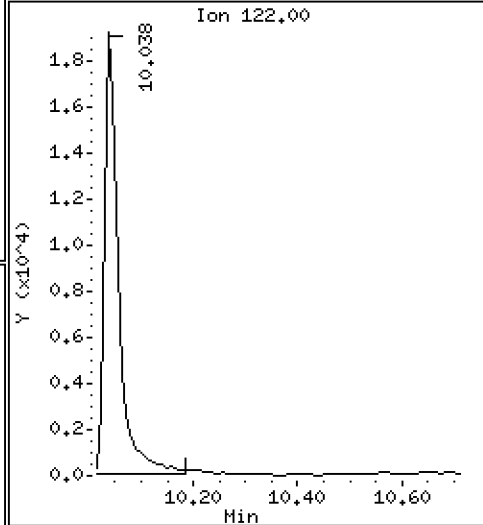
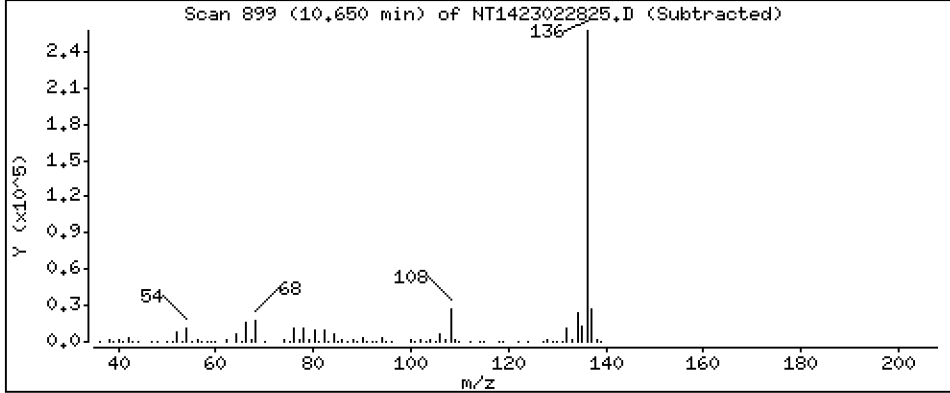
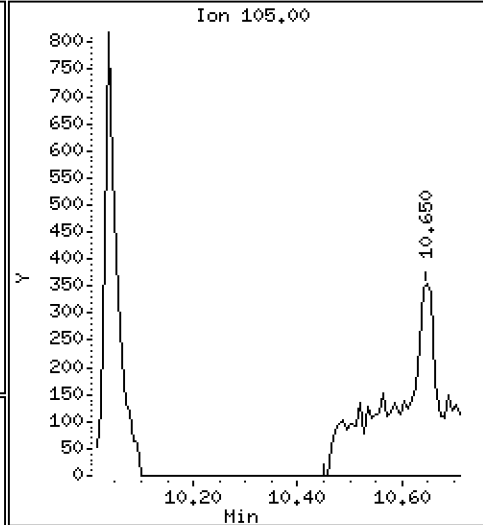
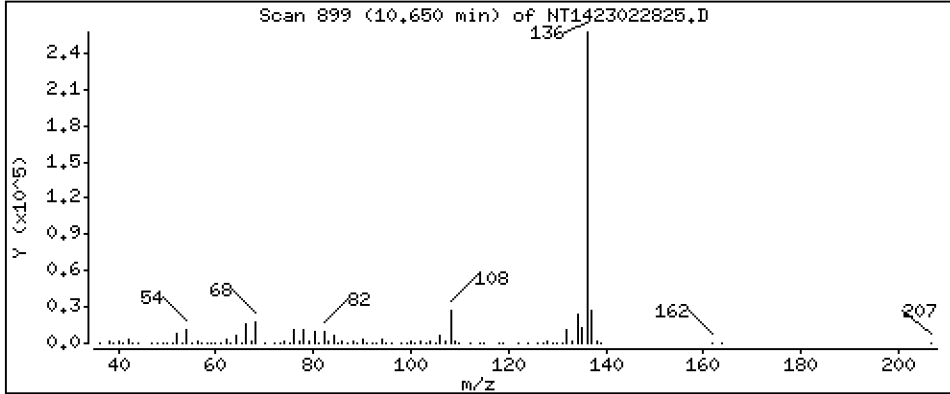
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,5672 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

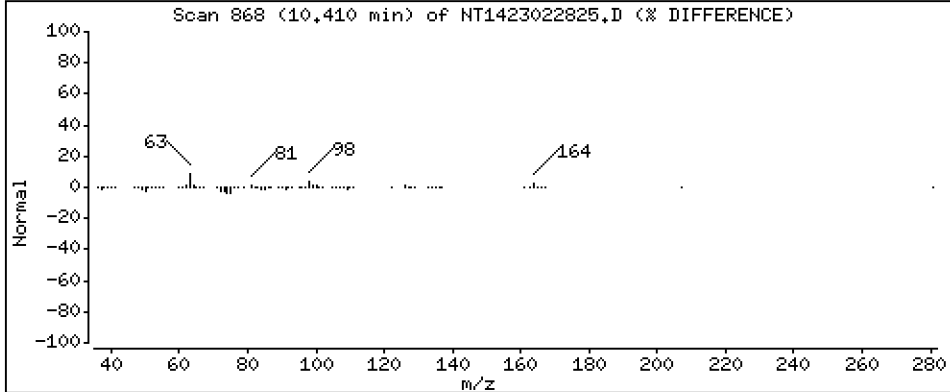
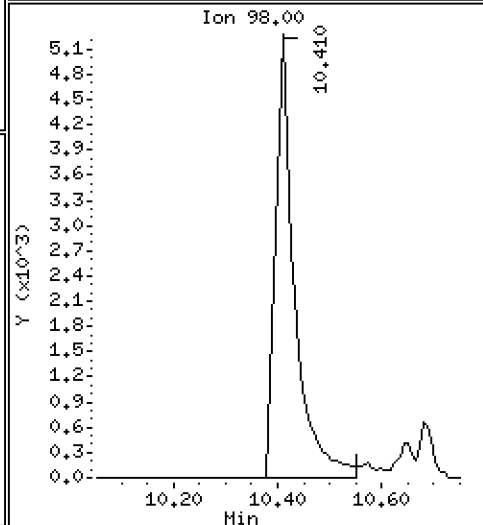
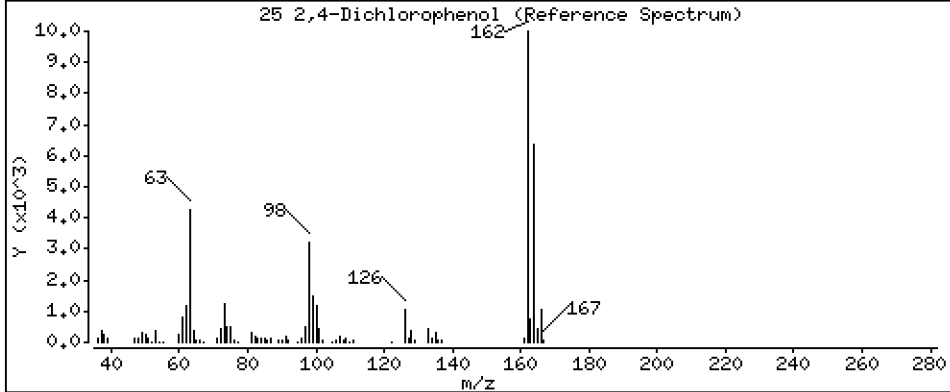
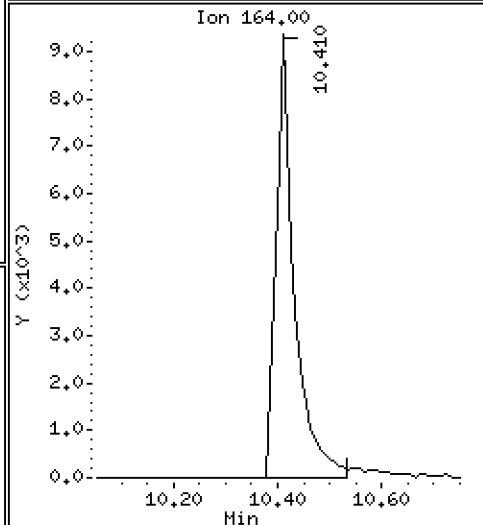
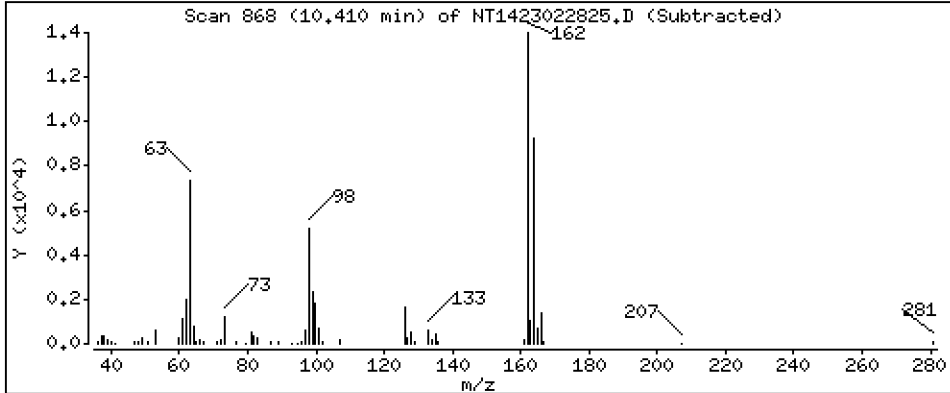
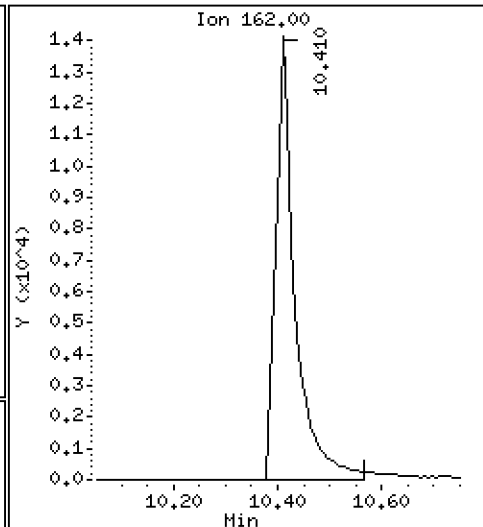
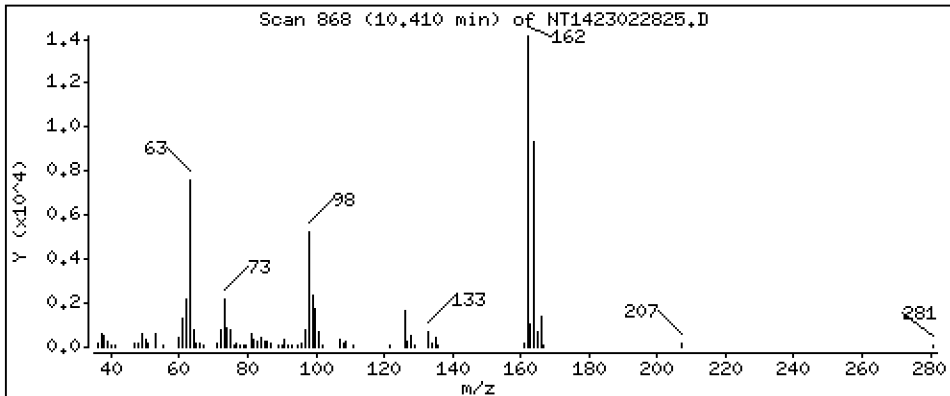
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,8589 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

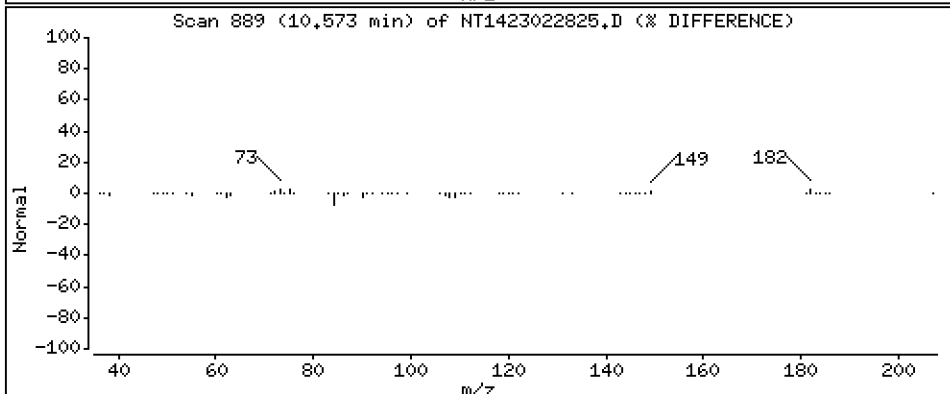
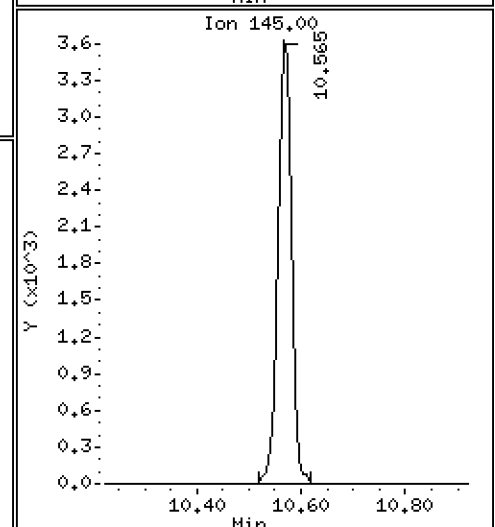
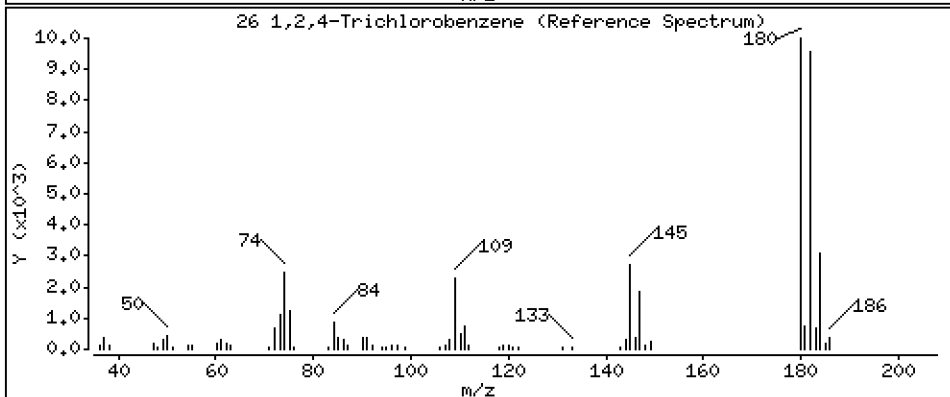
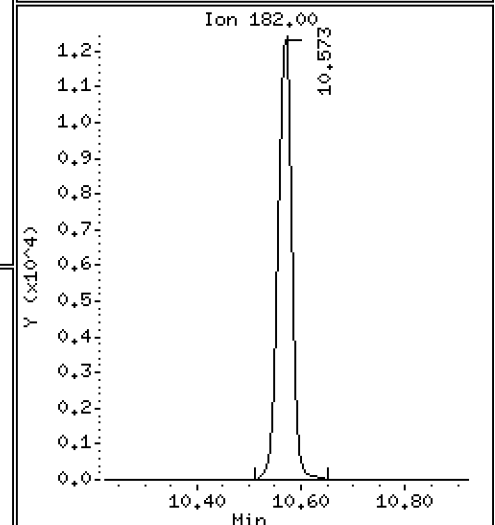
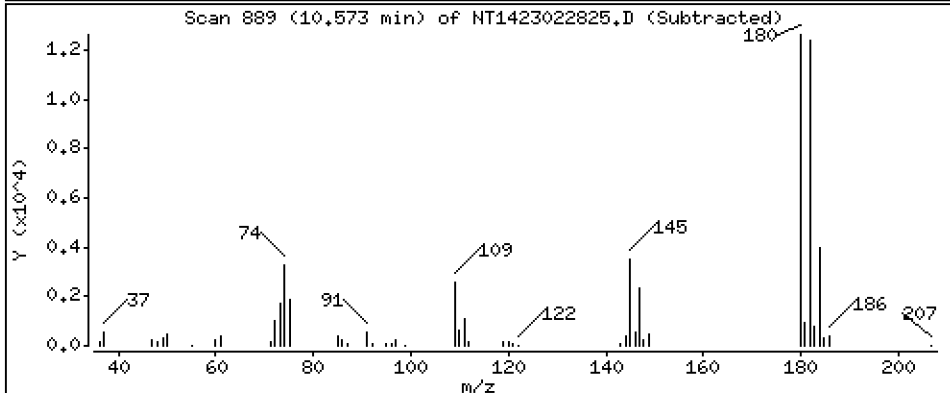
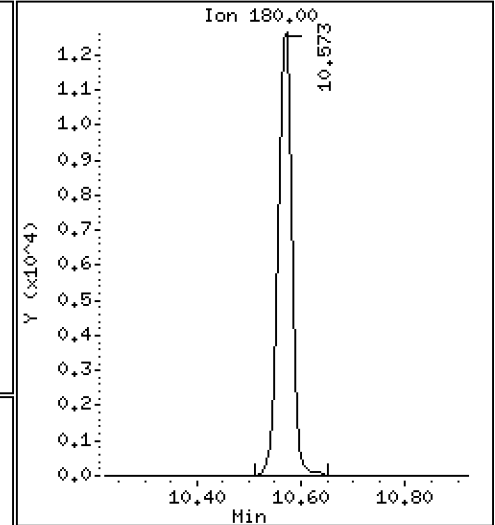
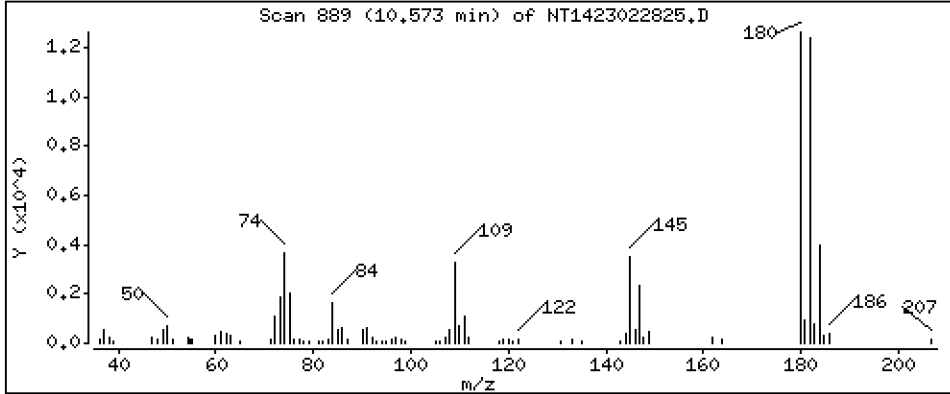
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,5059 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

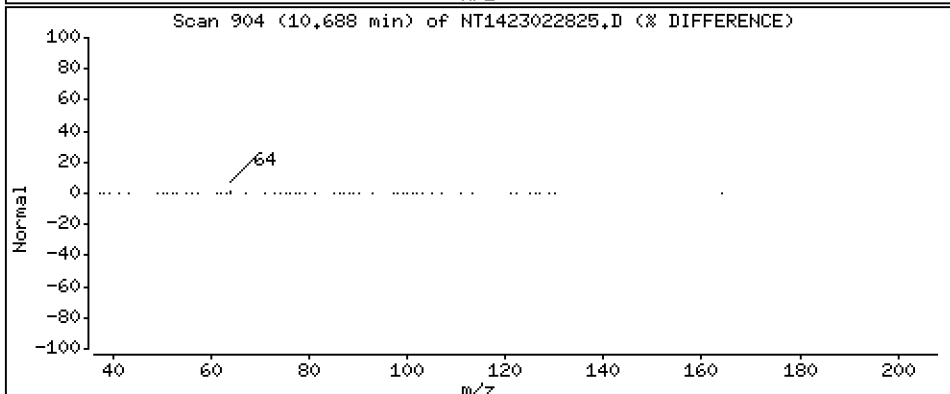
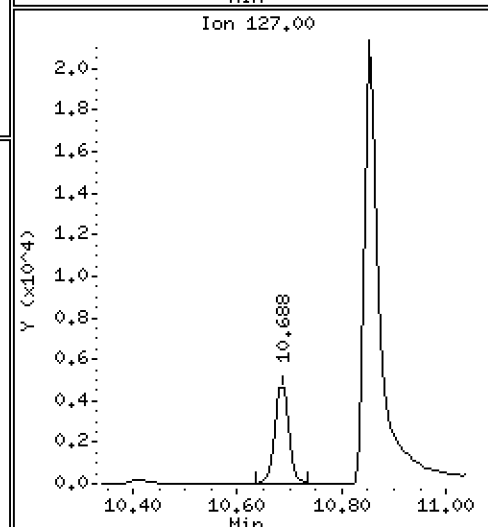
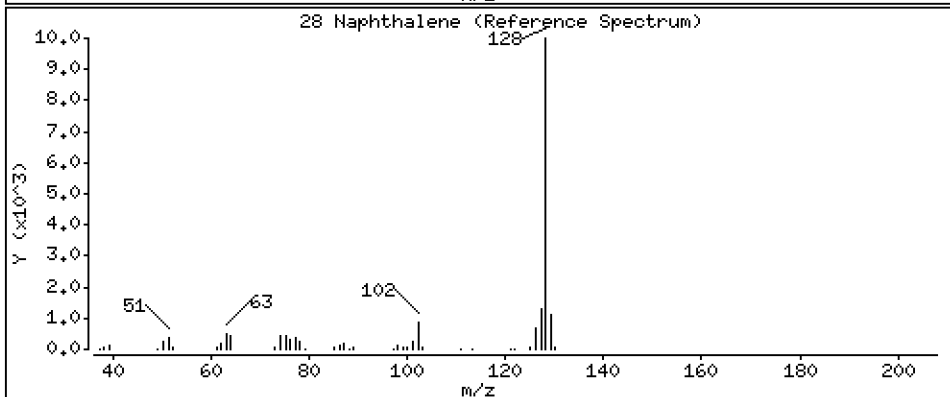
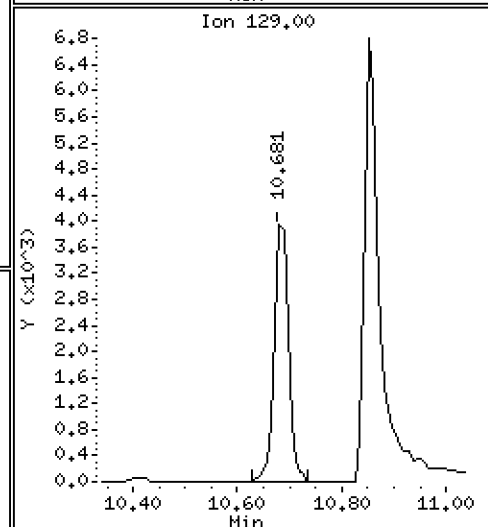
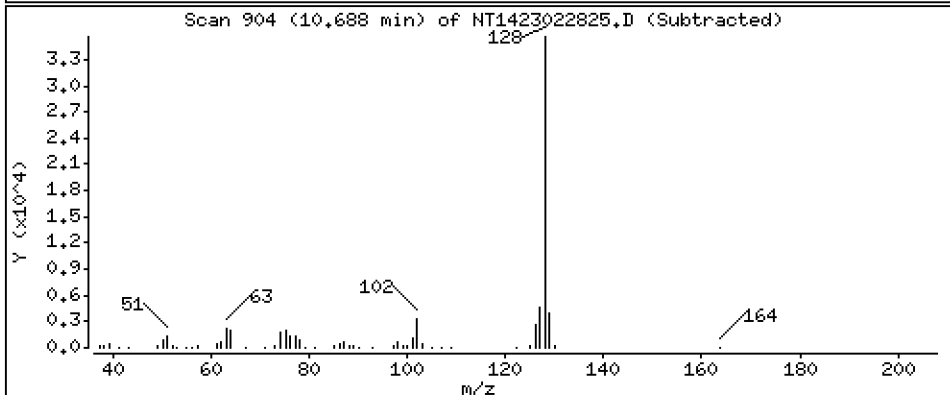
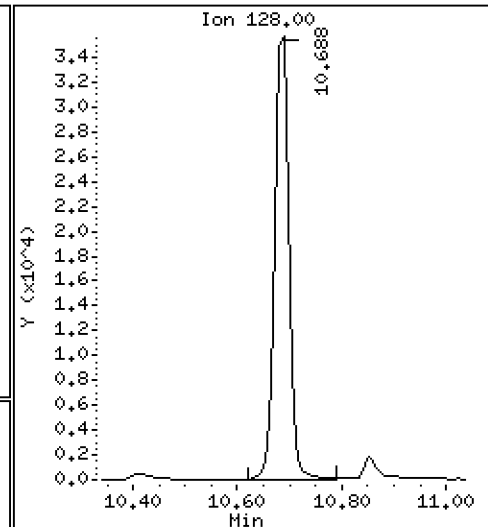
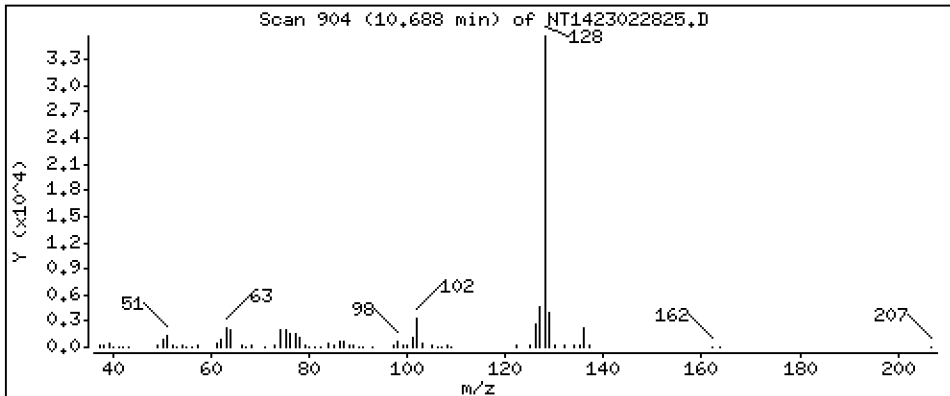
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,5298 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

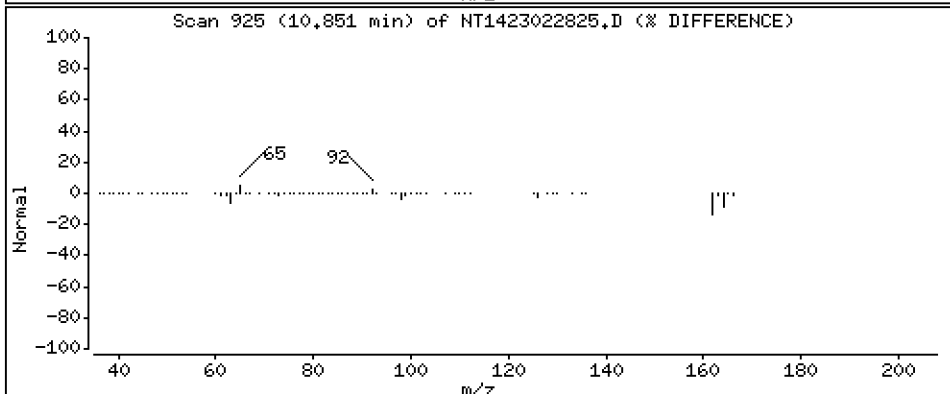
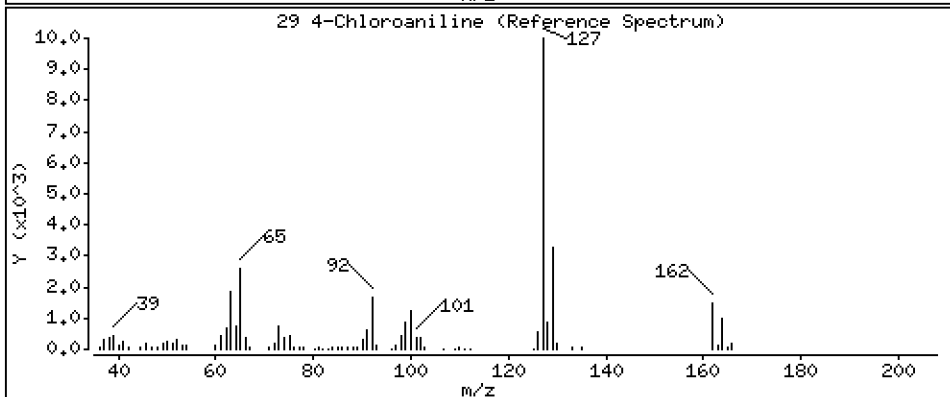
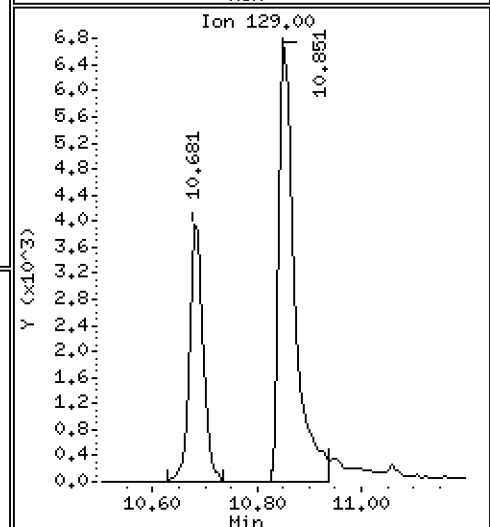
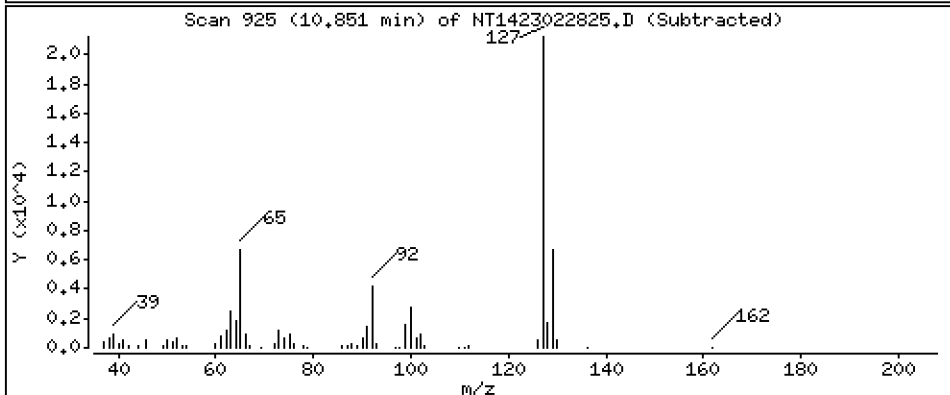
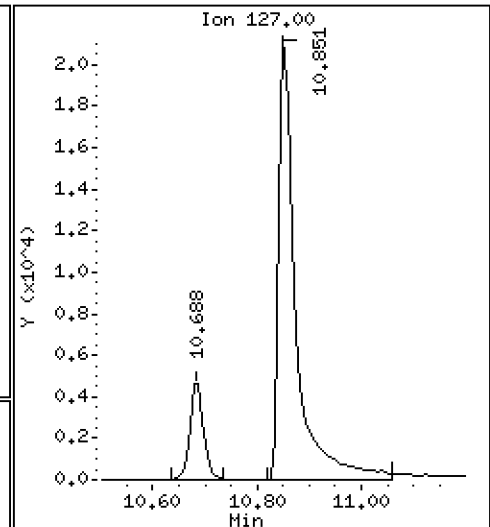
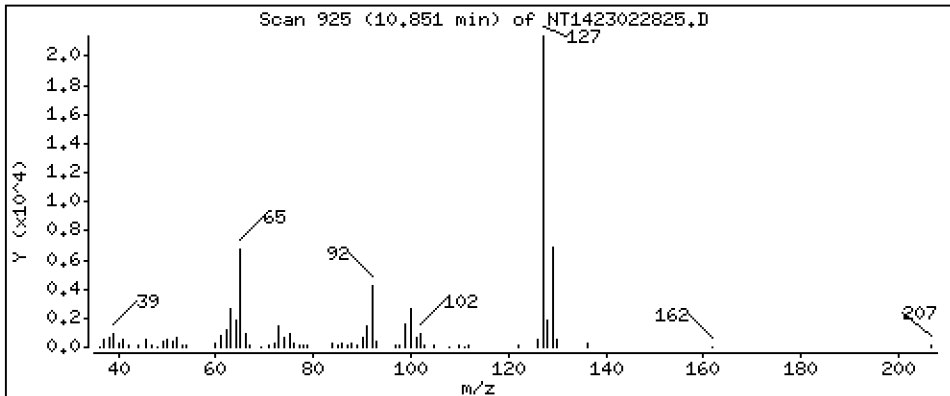
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,9465 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

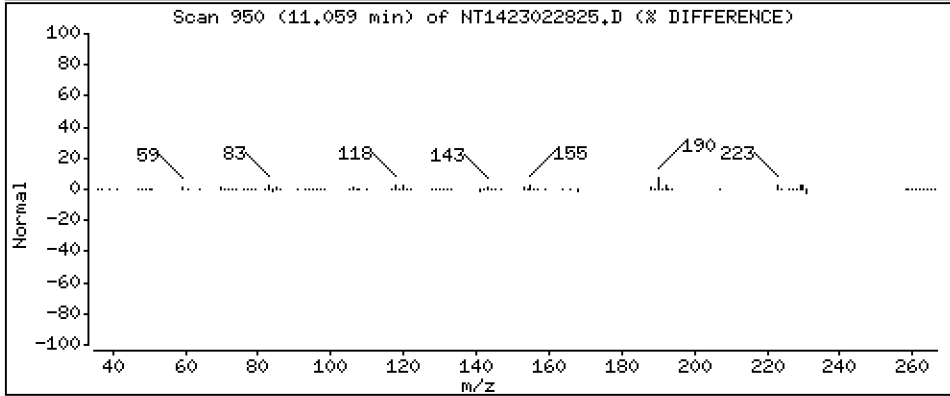
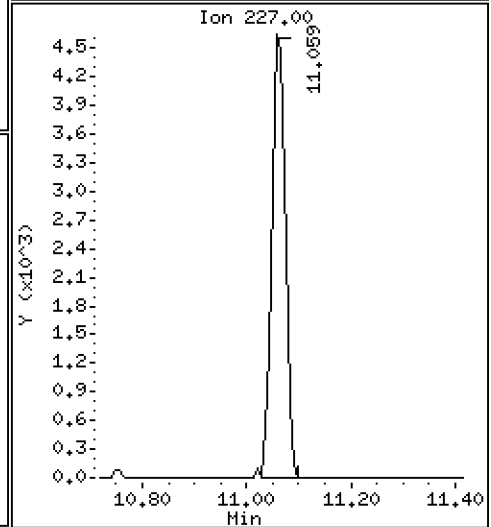
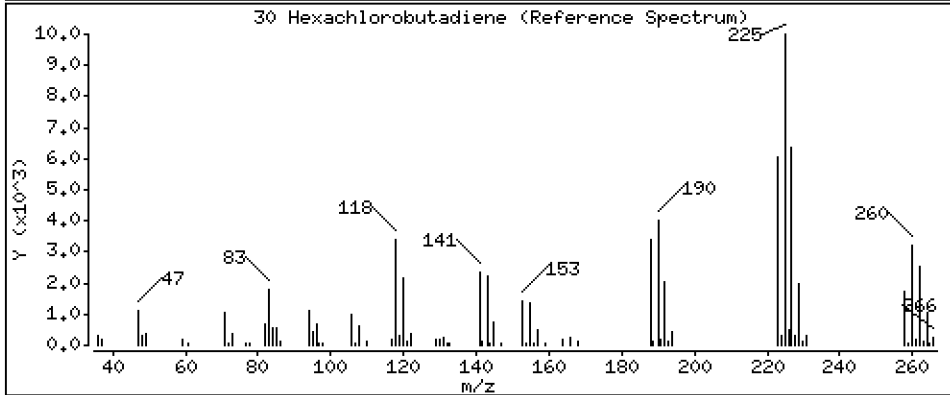
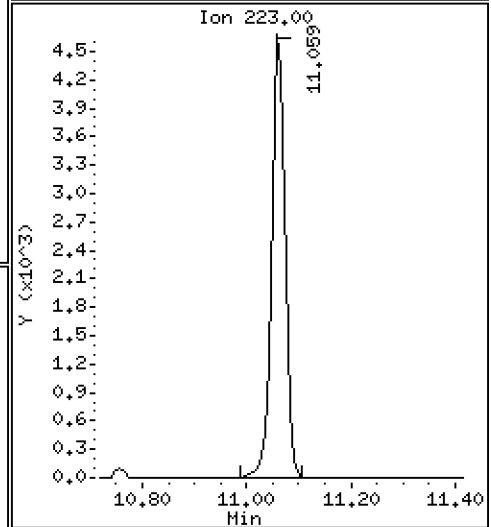
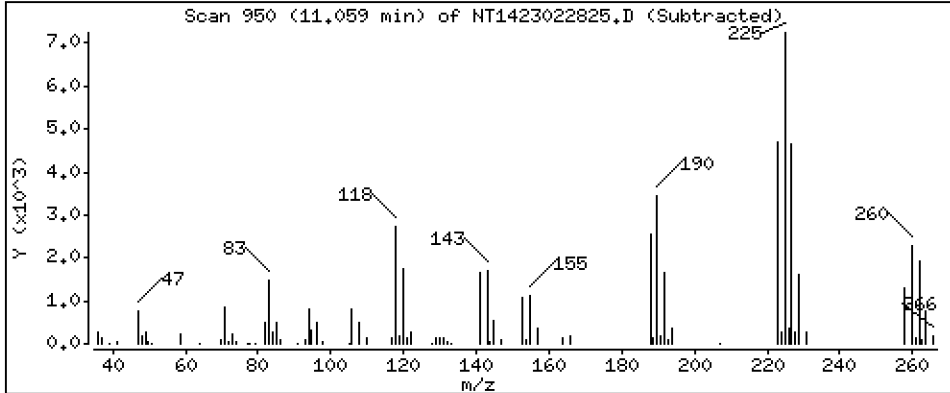
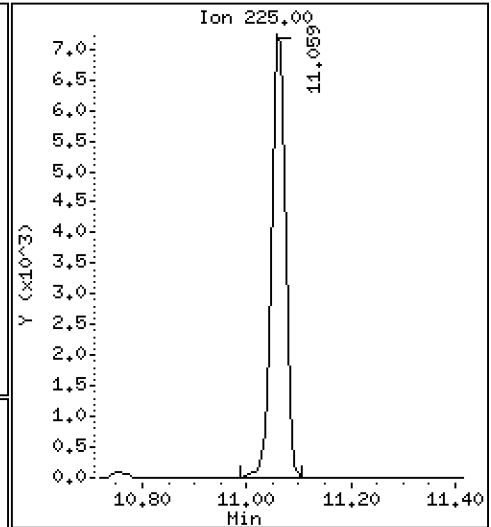
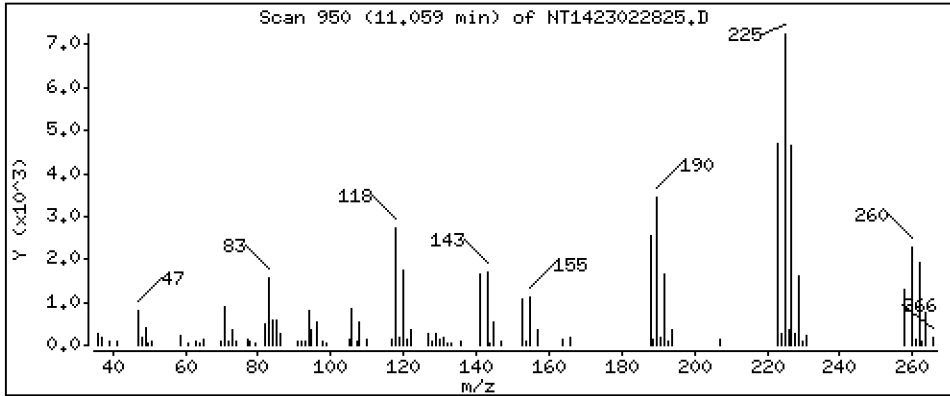
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,5495 ug/mL





Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

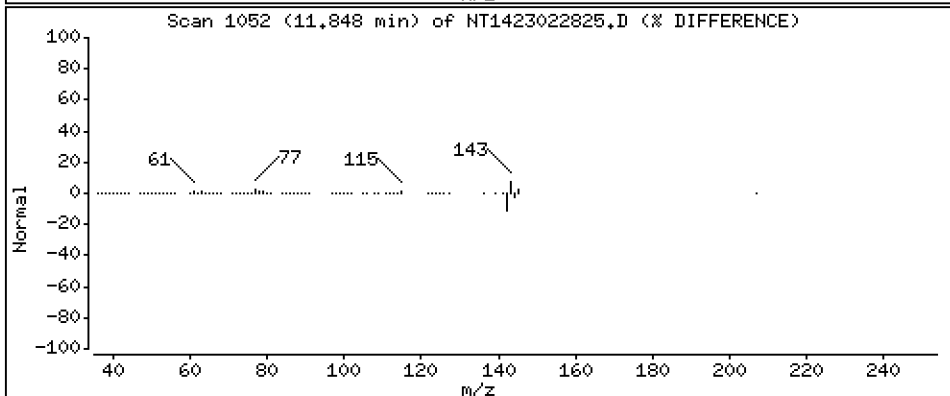
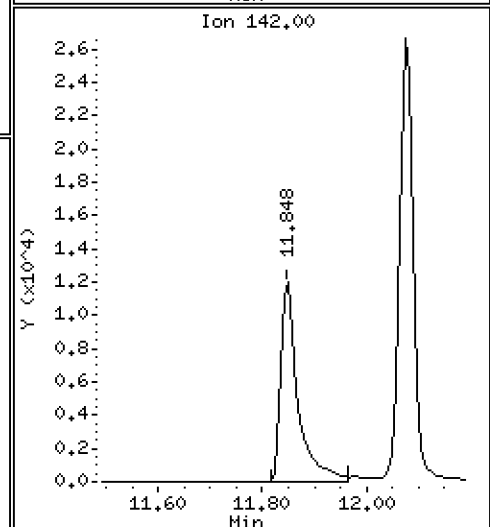
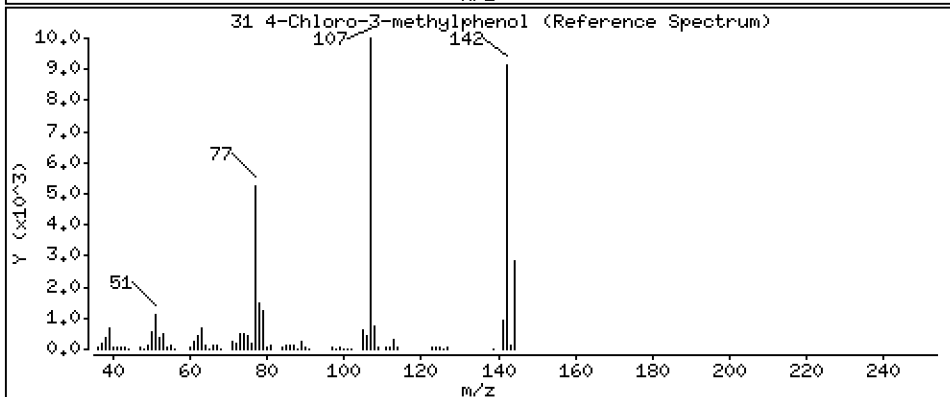
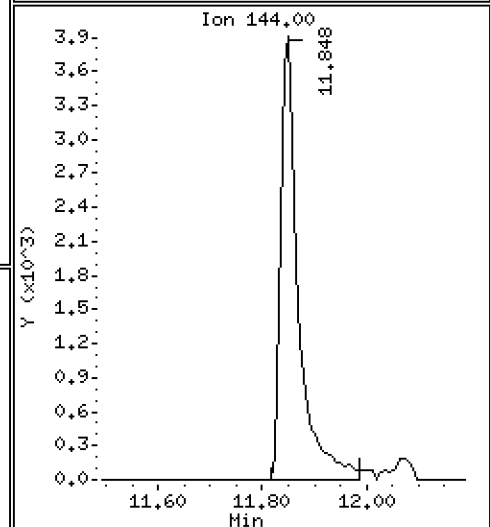
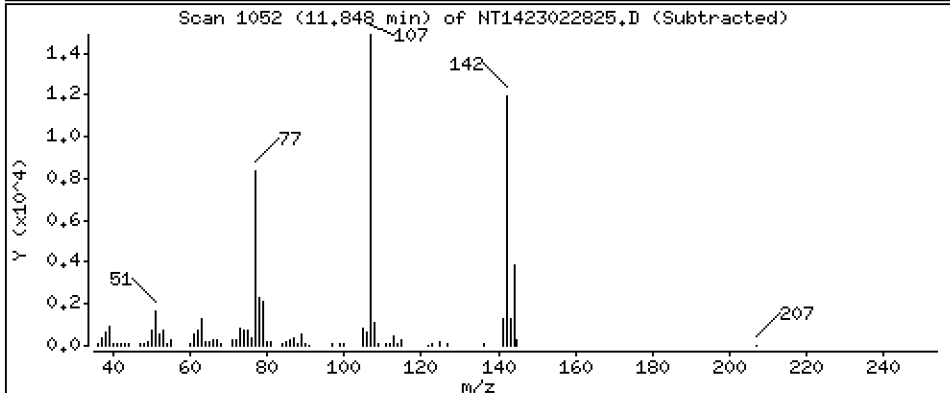
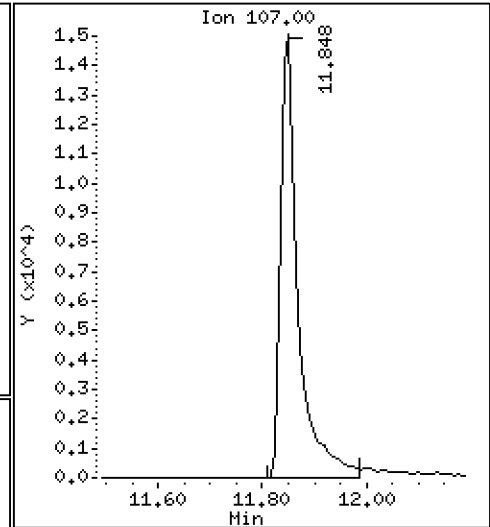
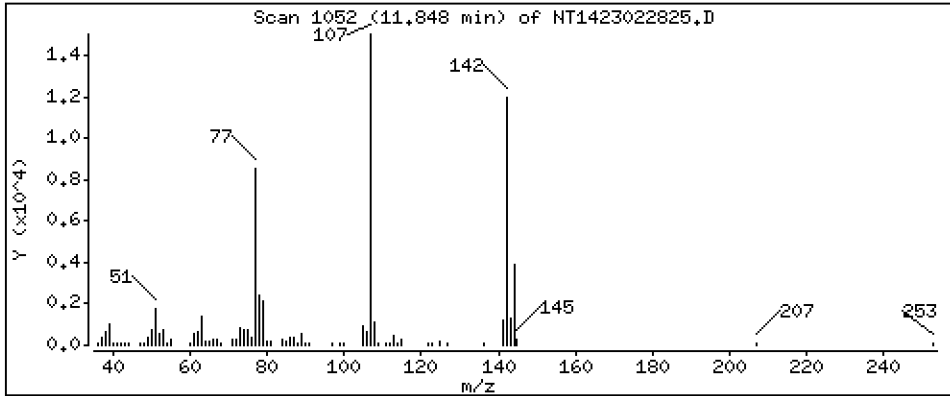
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,9723 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

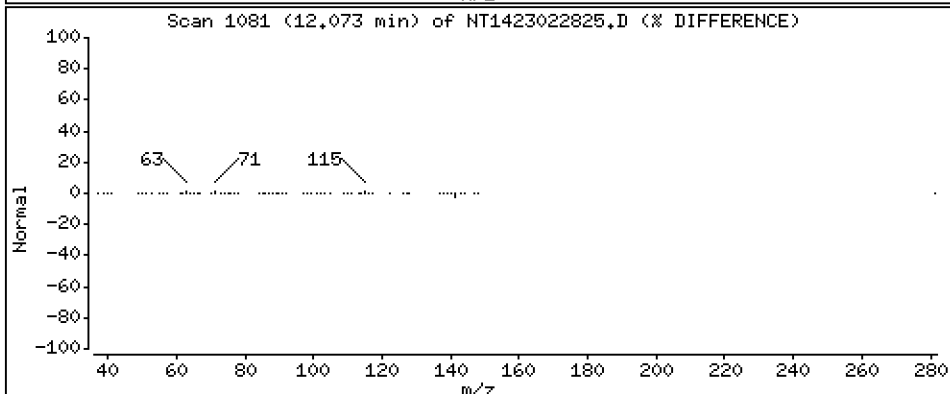
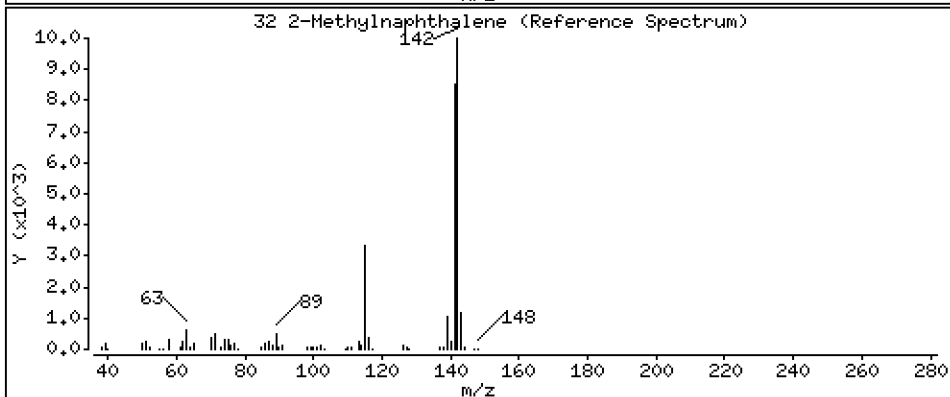
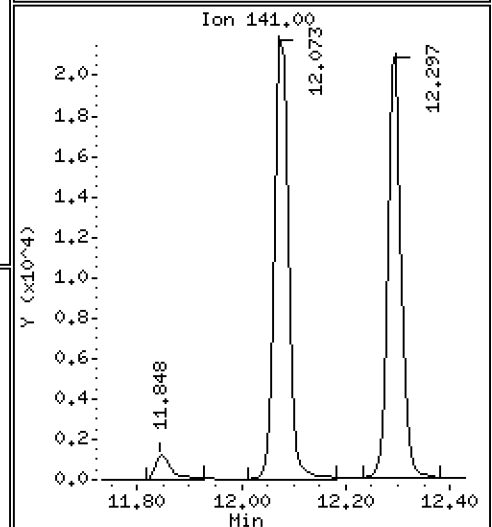
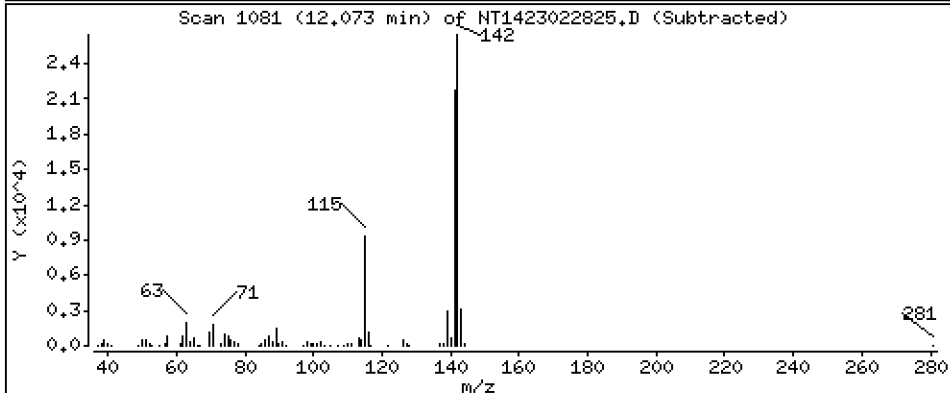
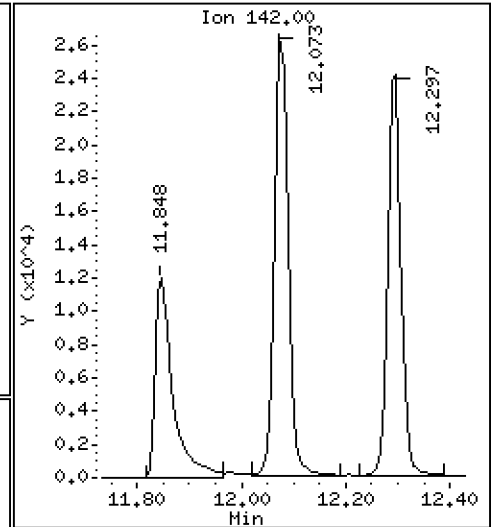
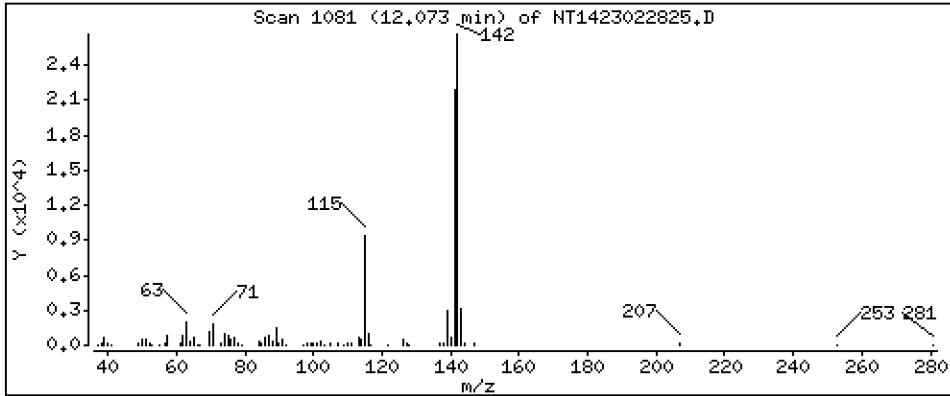
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,5070 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

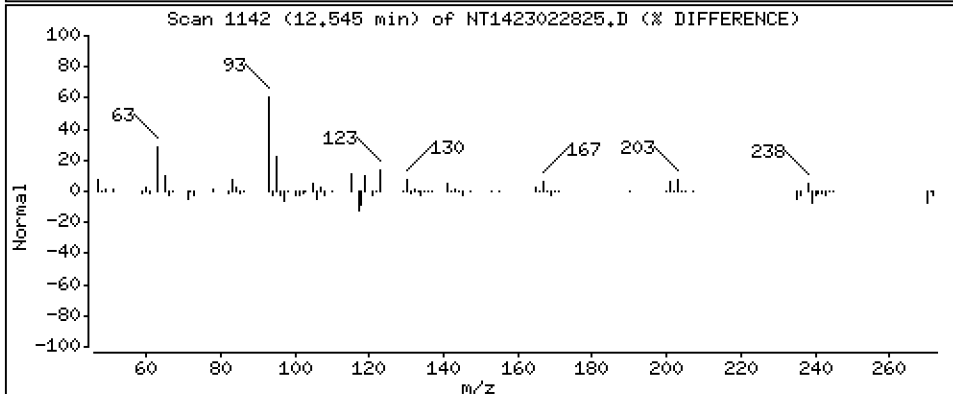
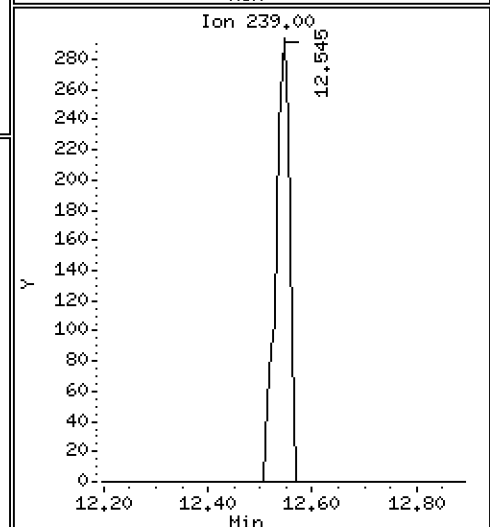
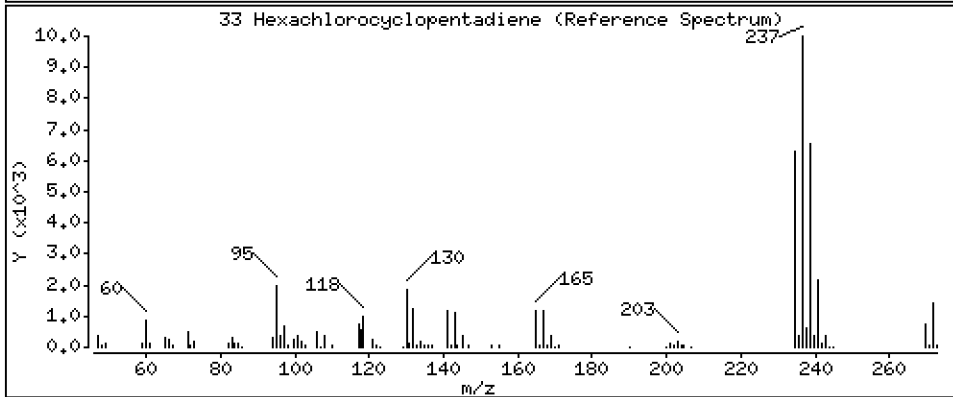
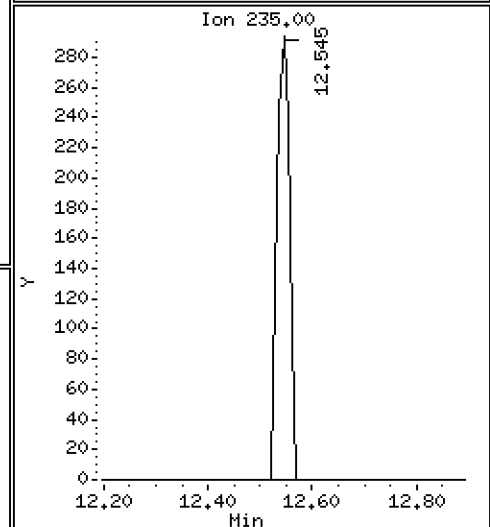
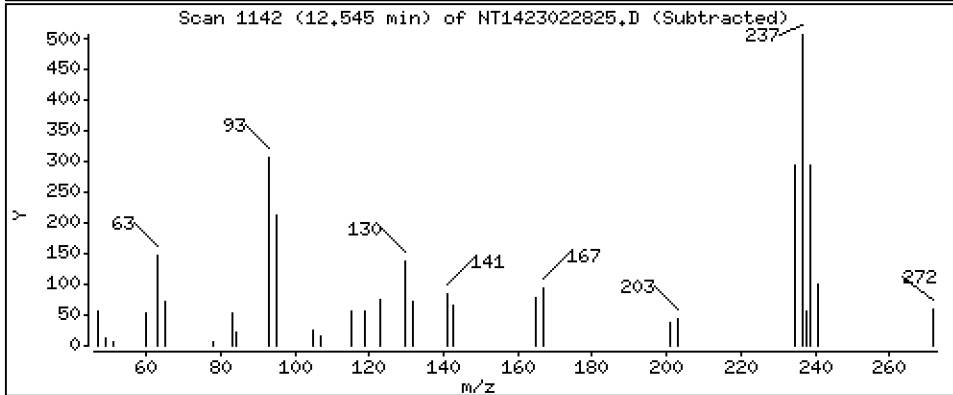
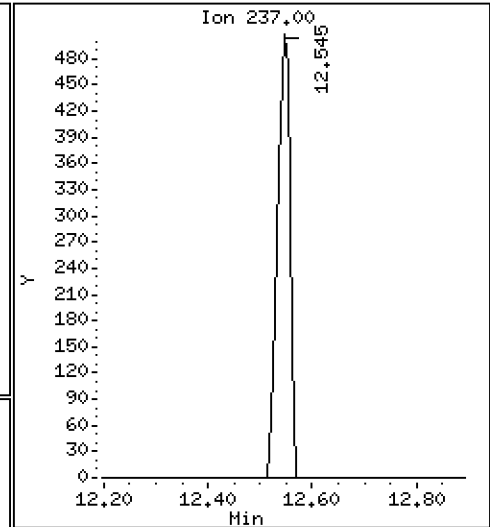
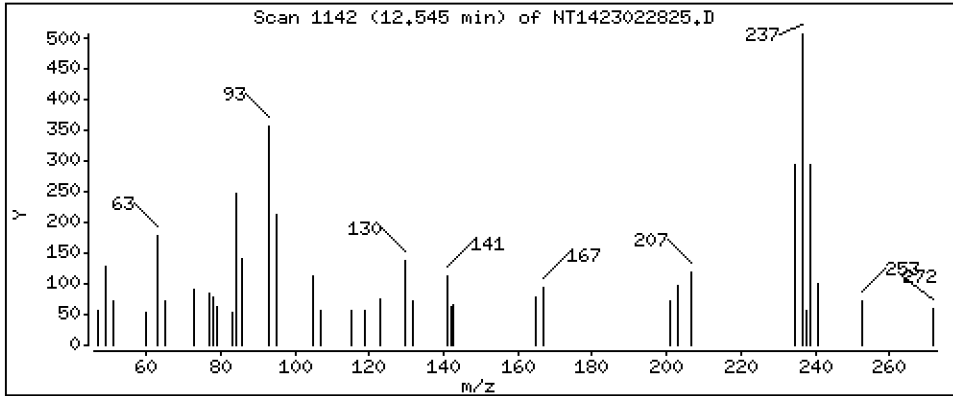
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,02907 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

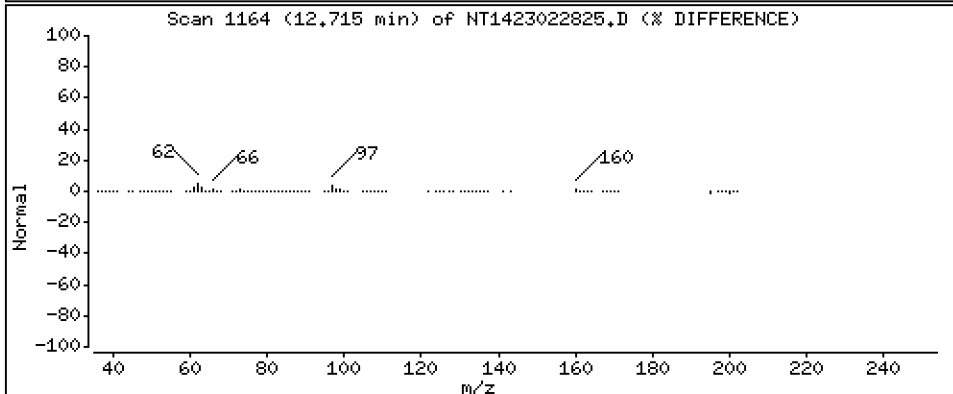
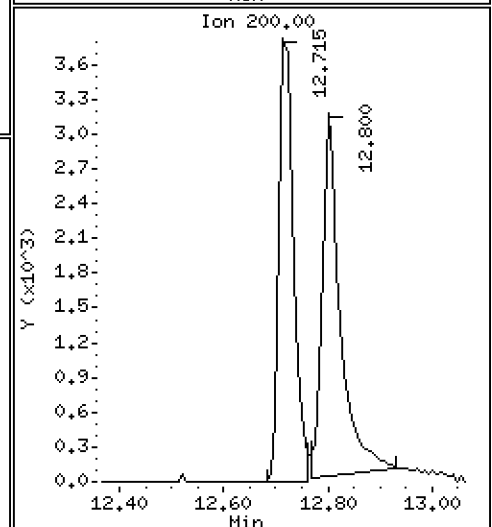
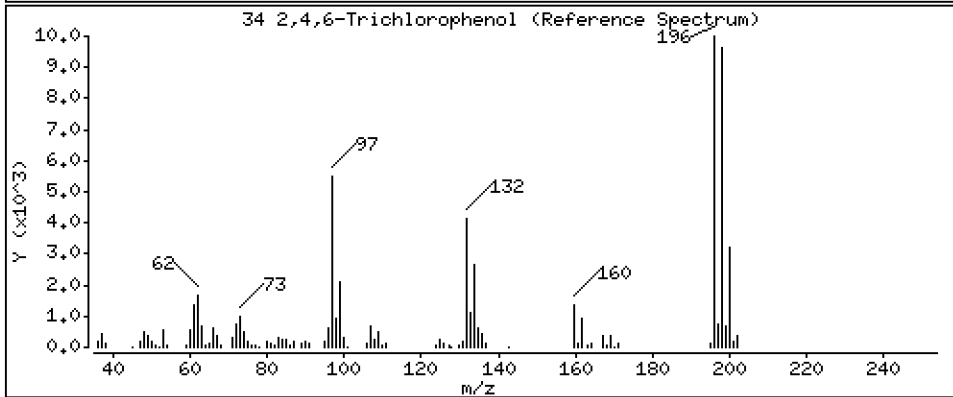
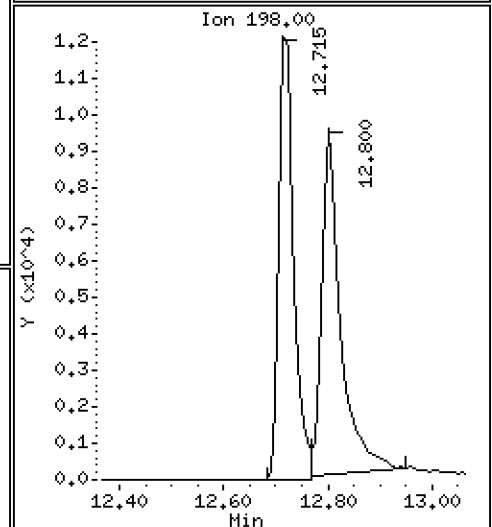
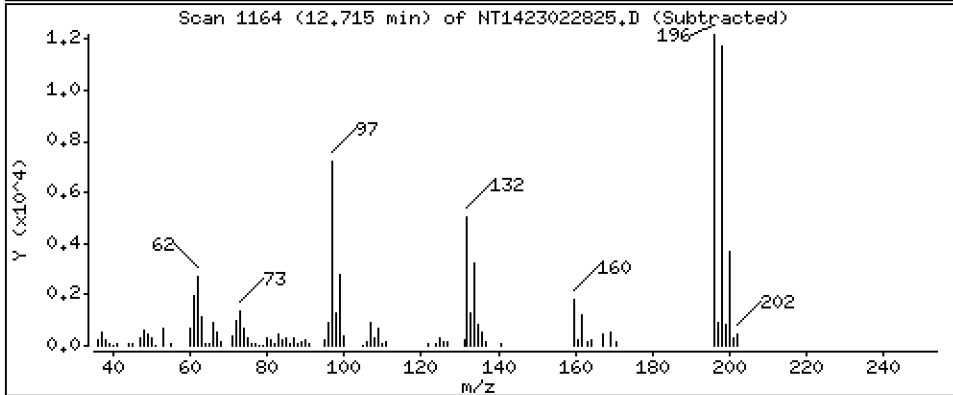
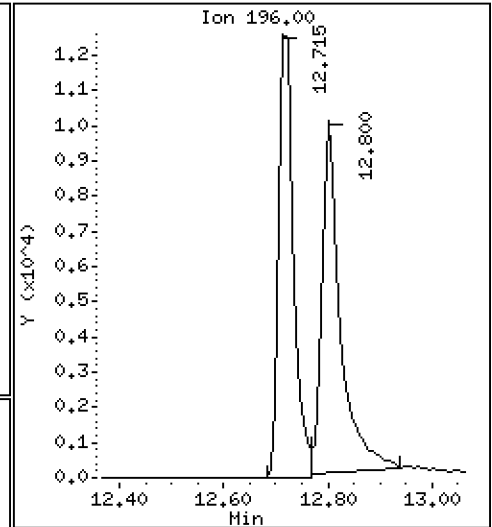
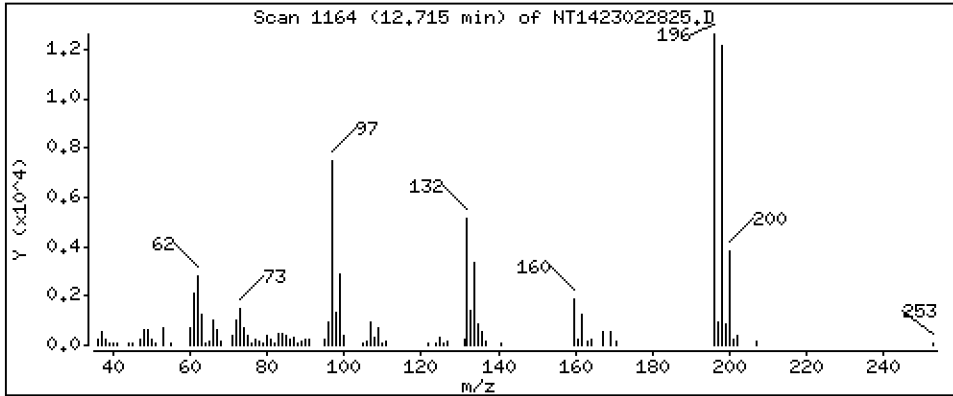
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,9333 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

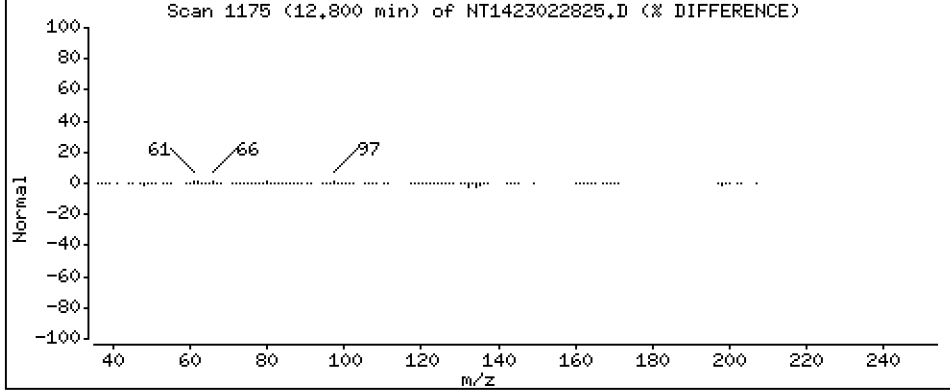
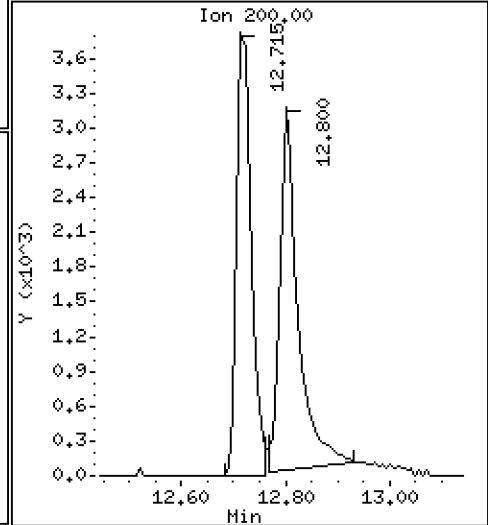
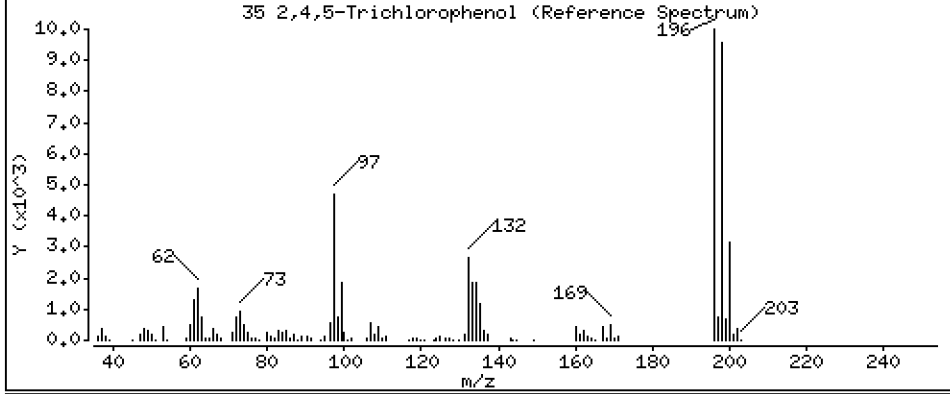
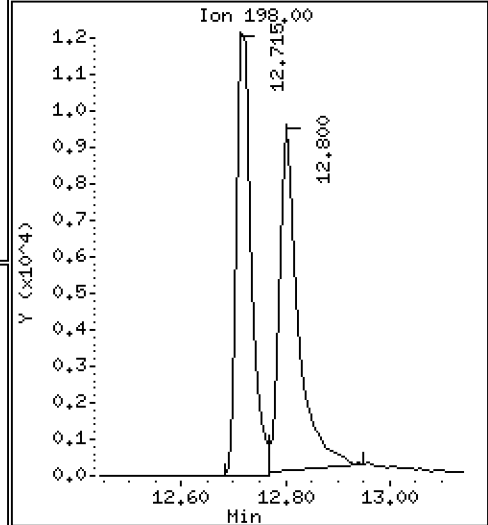
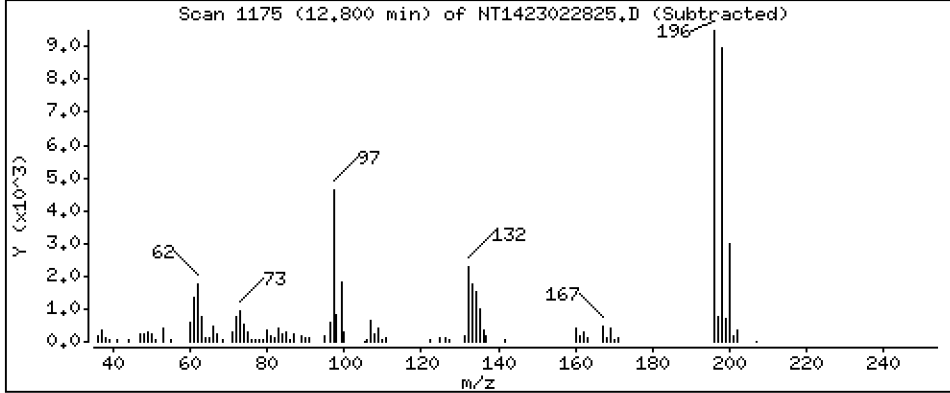
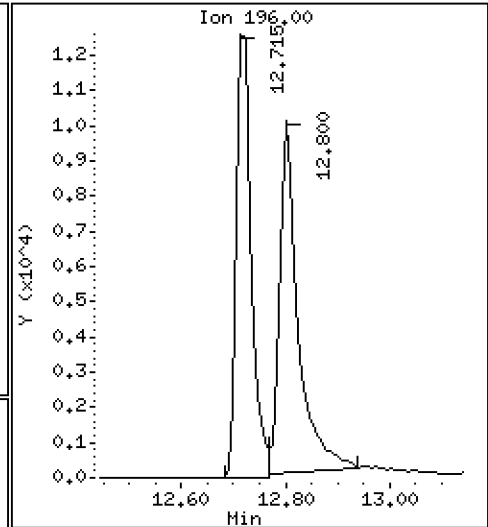
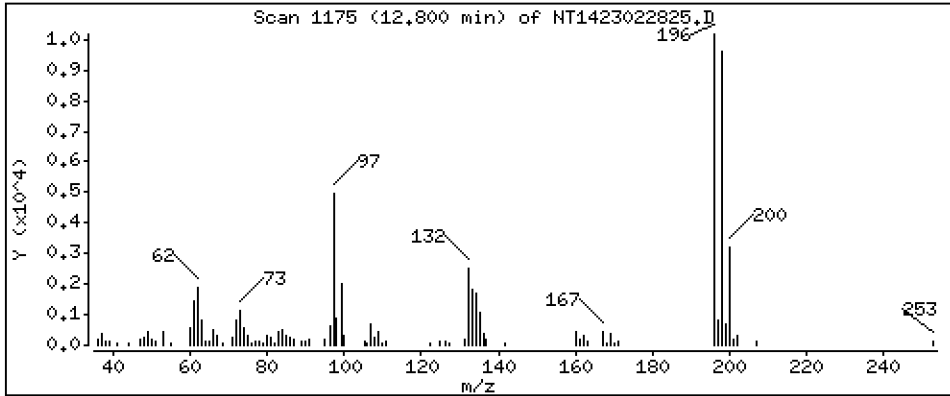
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,8772 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

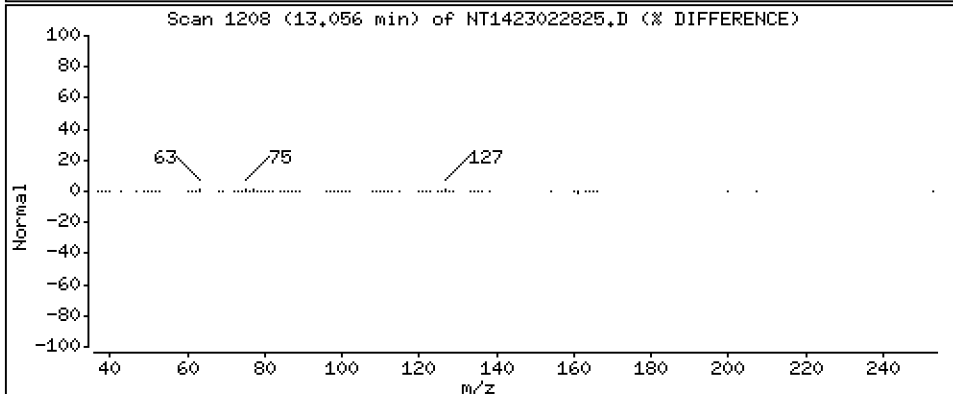
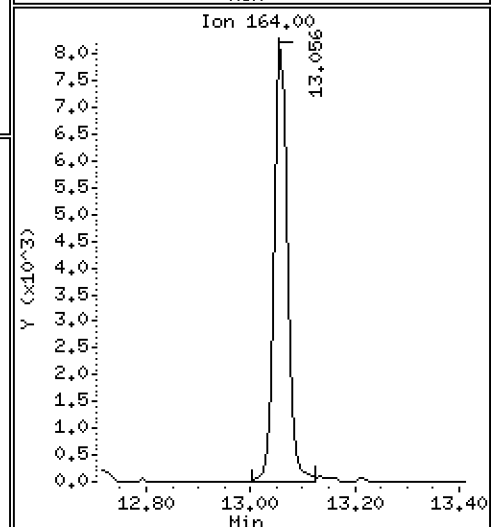
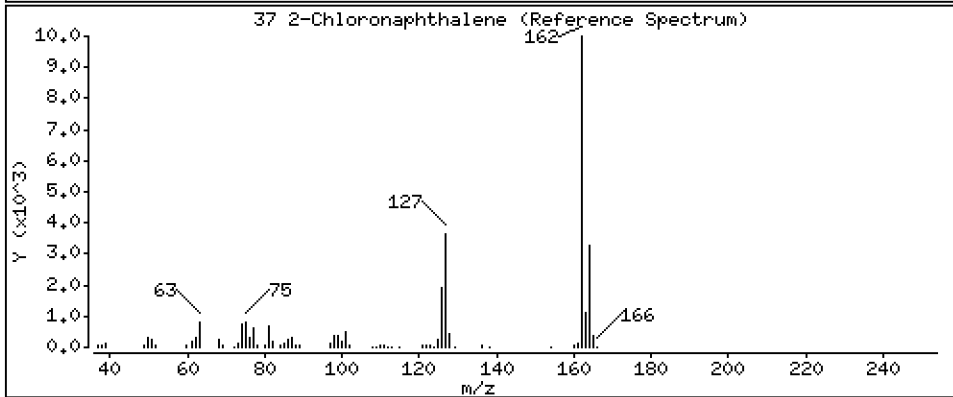
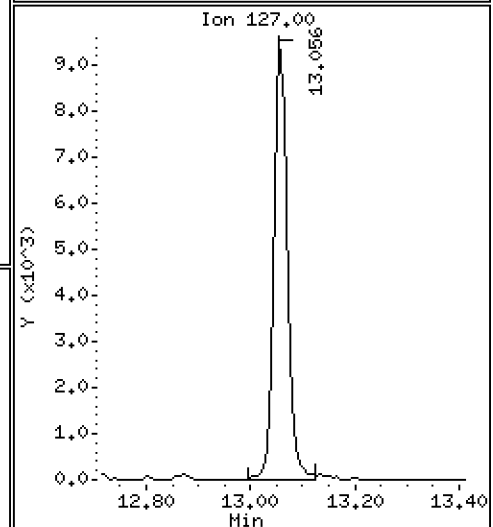
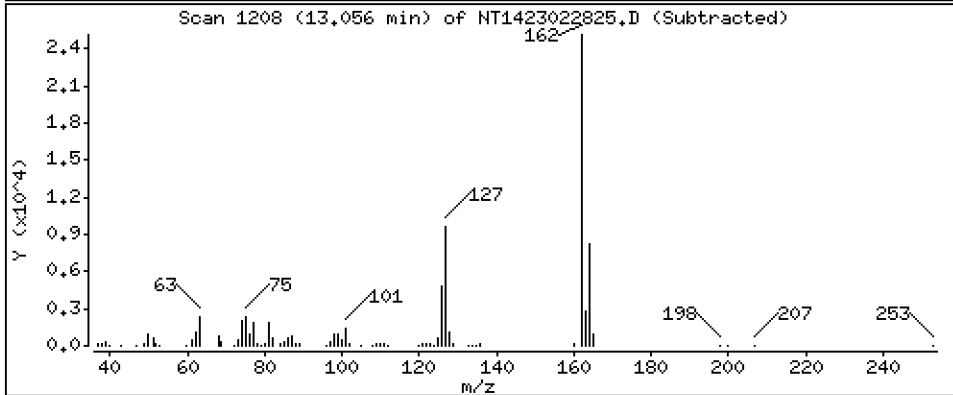
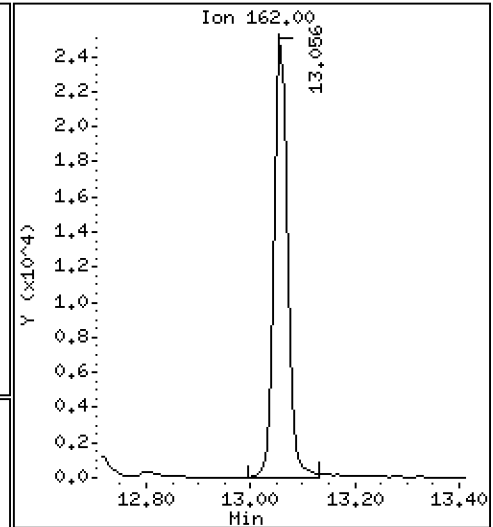
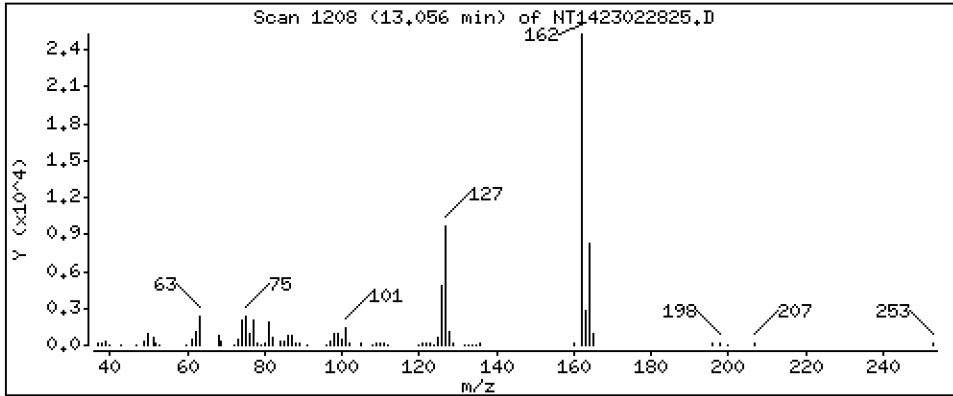
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,5205 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

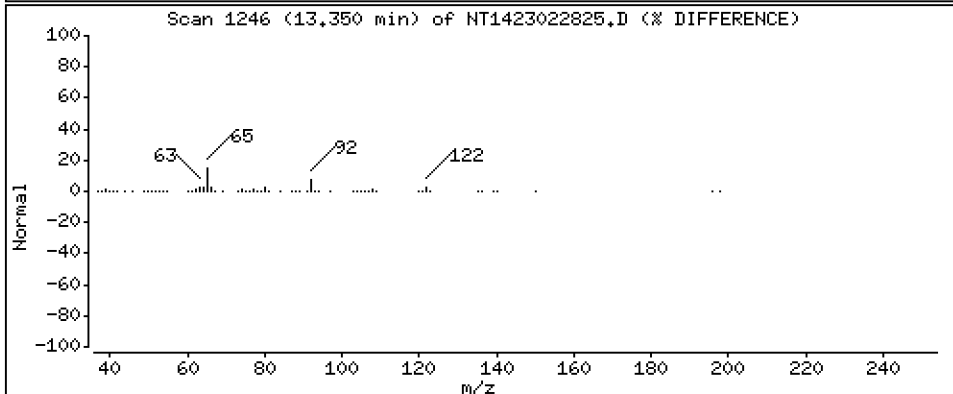
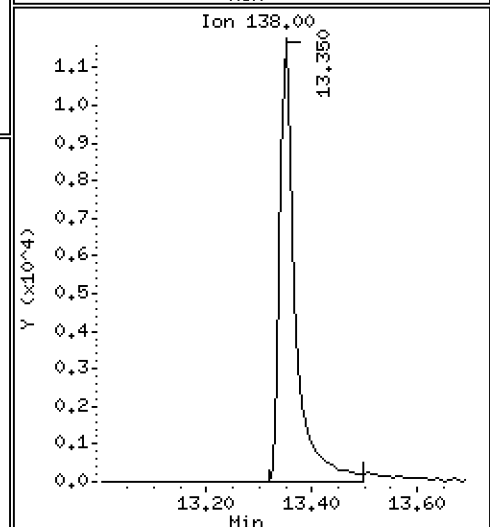
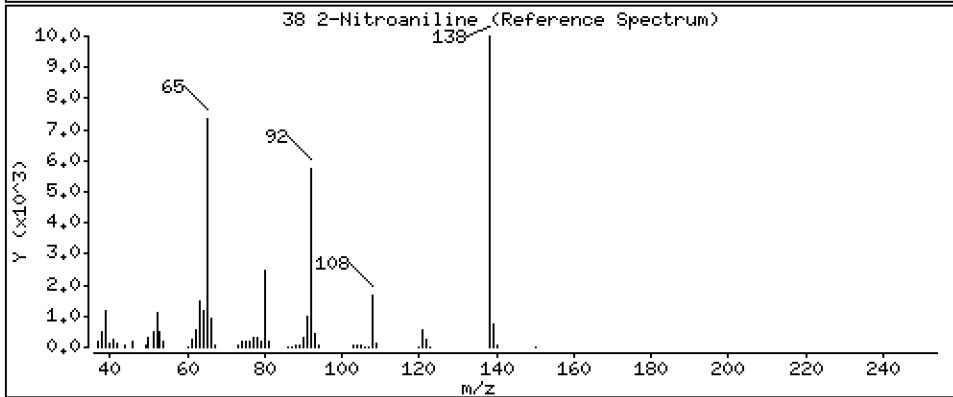
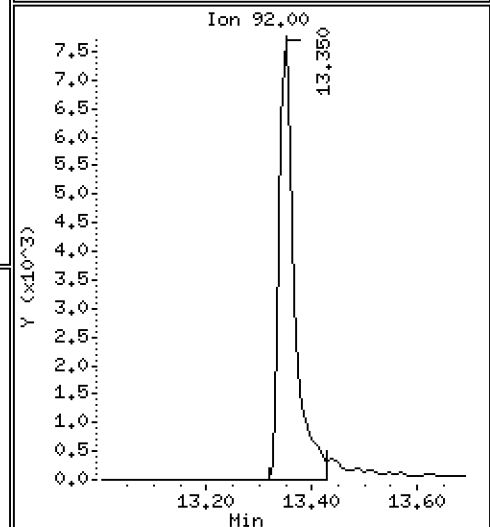
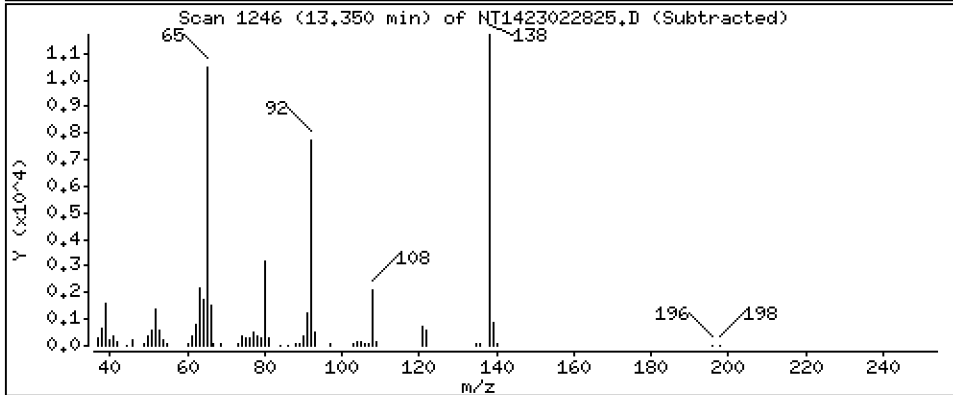
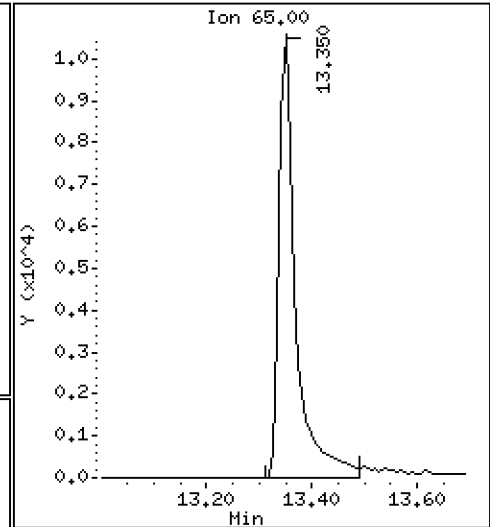
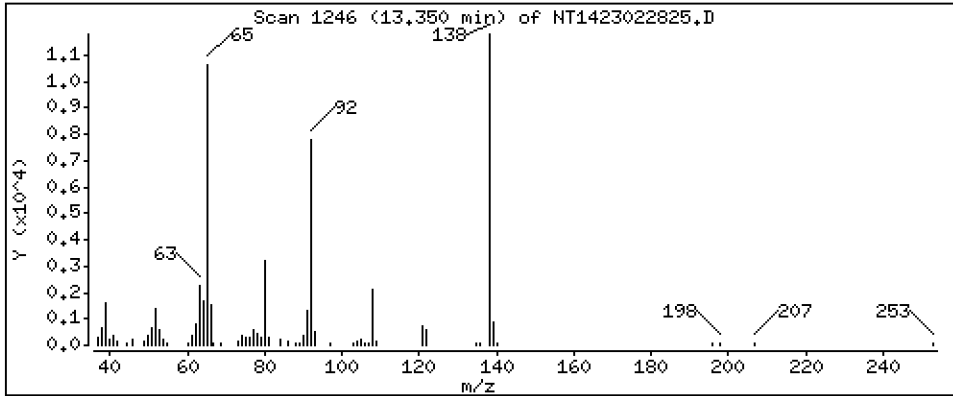
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 1,048 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

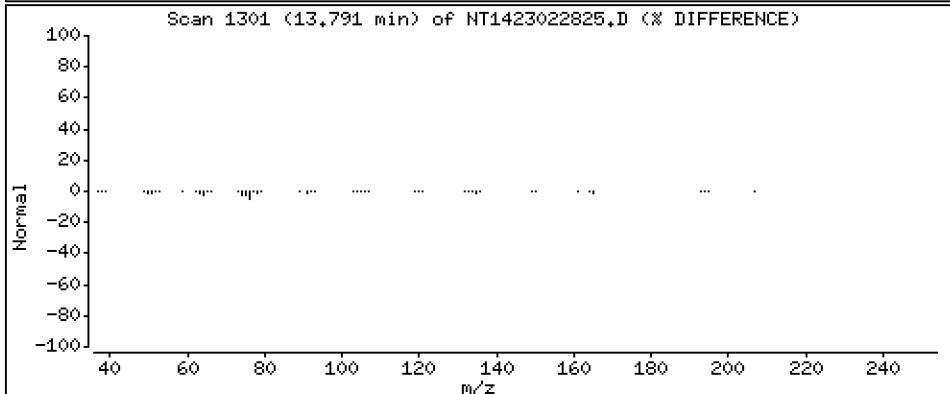
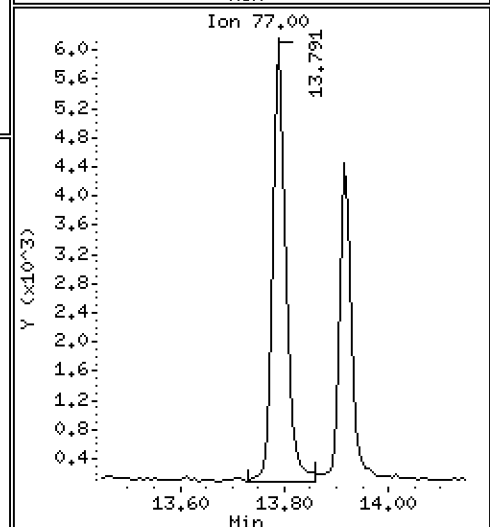
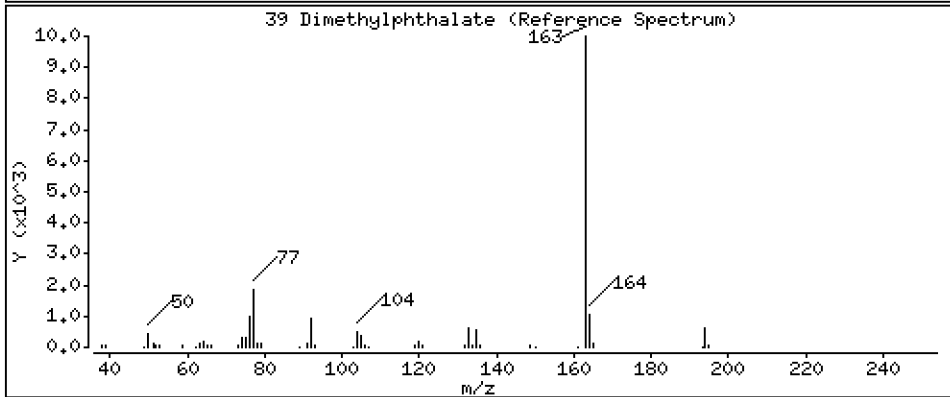
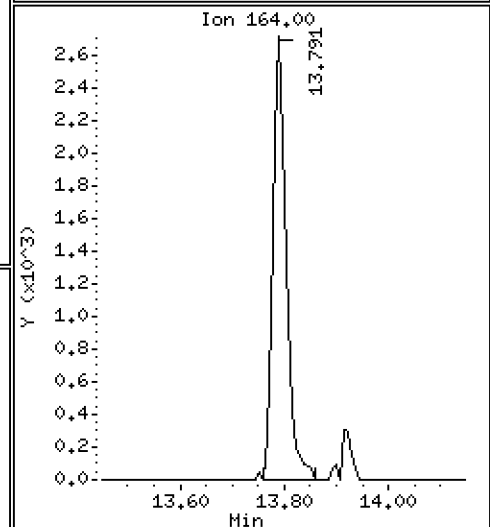
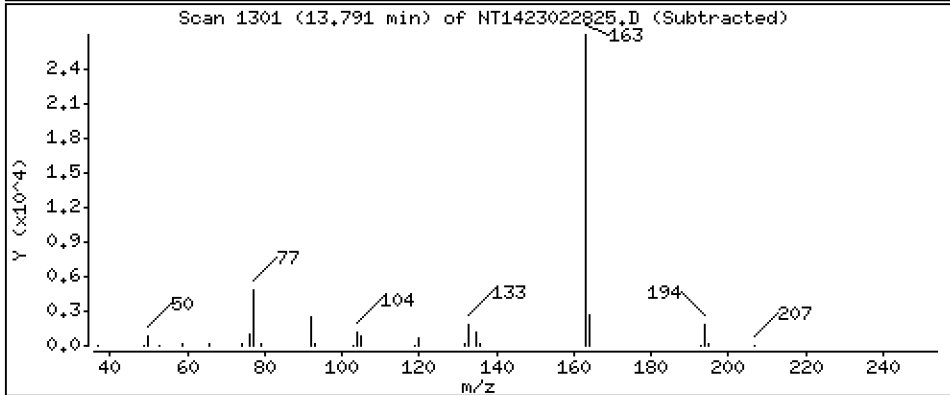
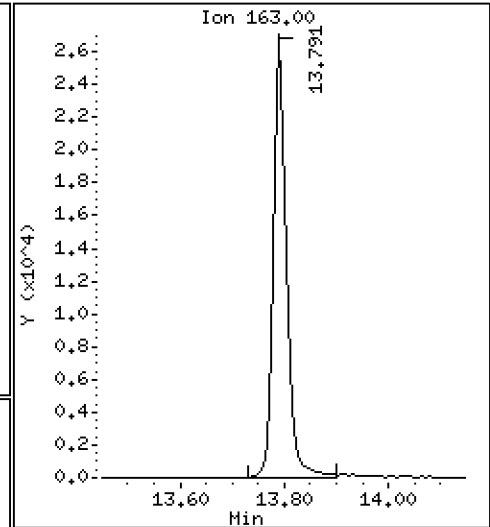
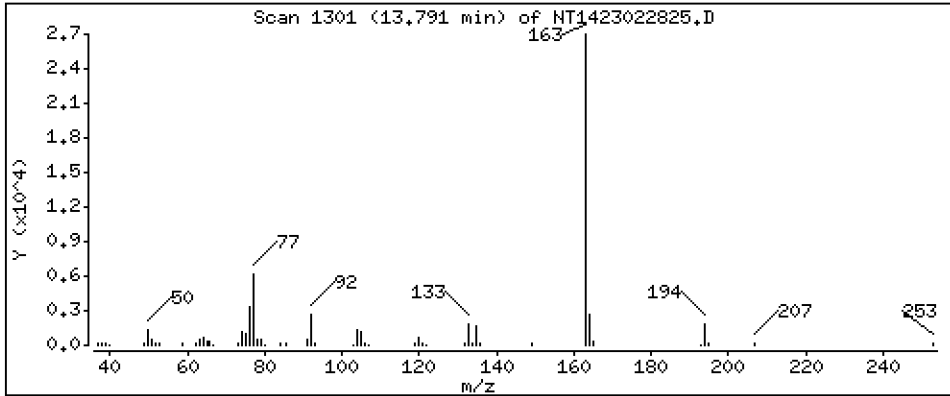
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,5482 ug/mL





Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

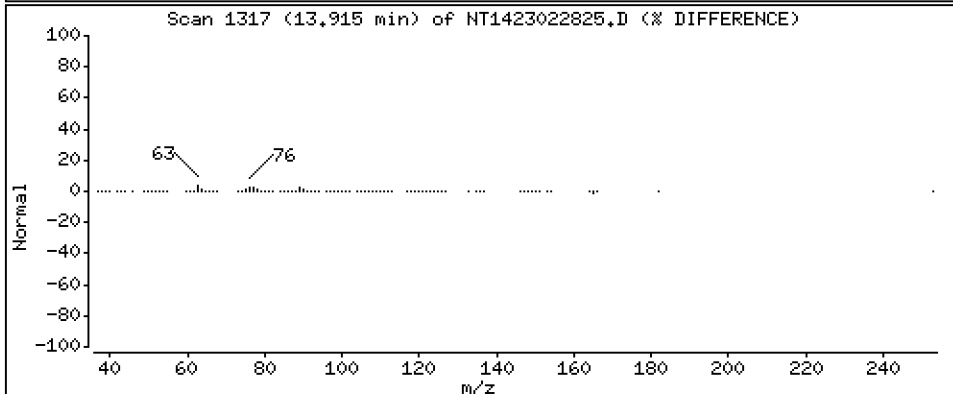
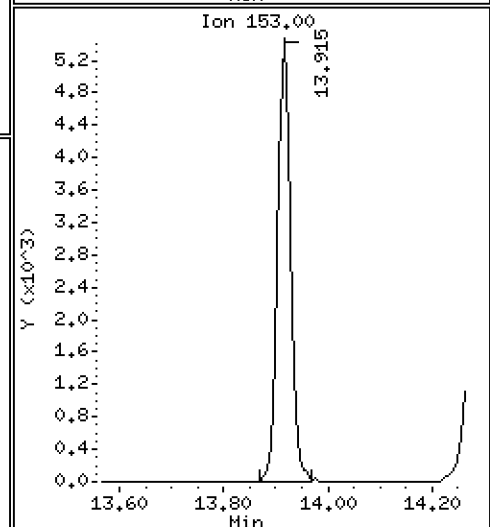
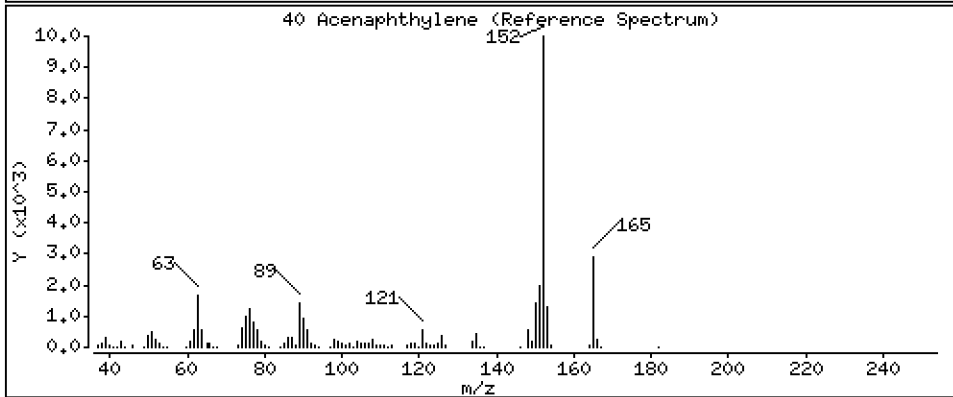
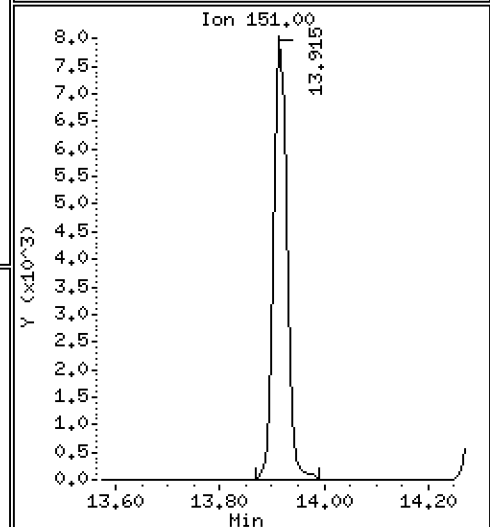
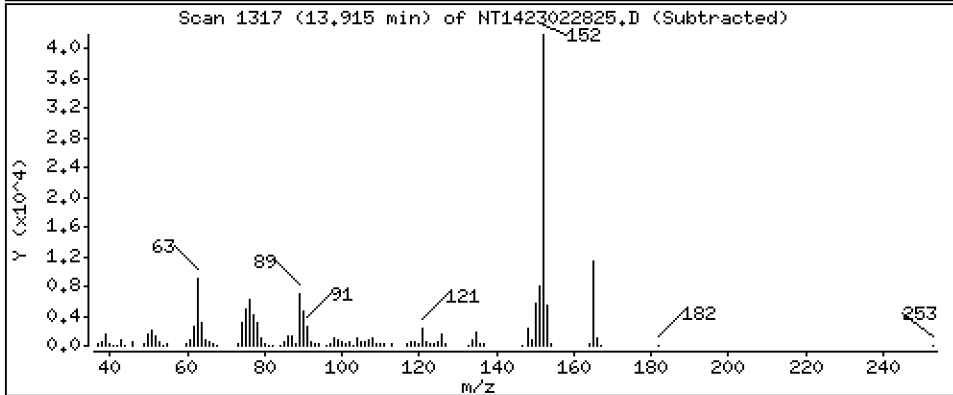
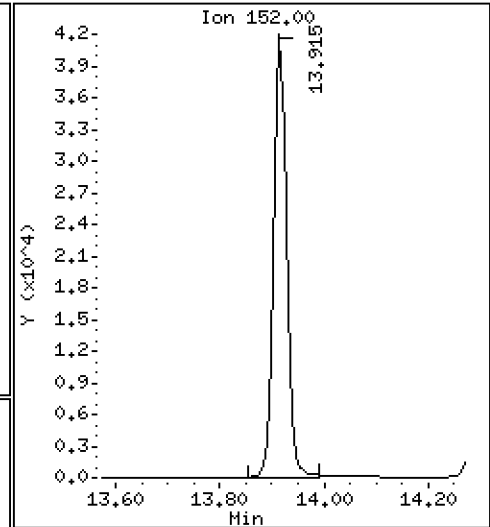
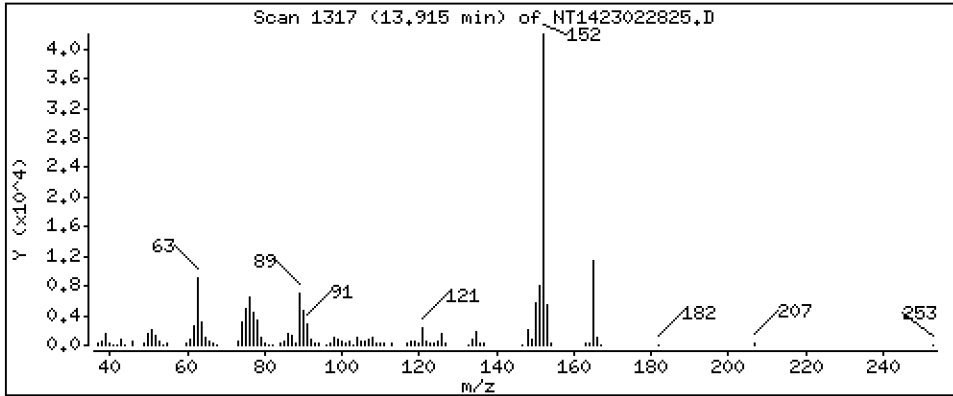
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,5668 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

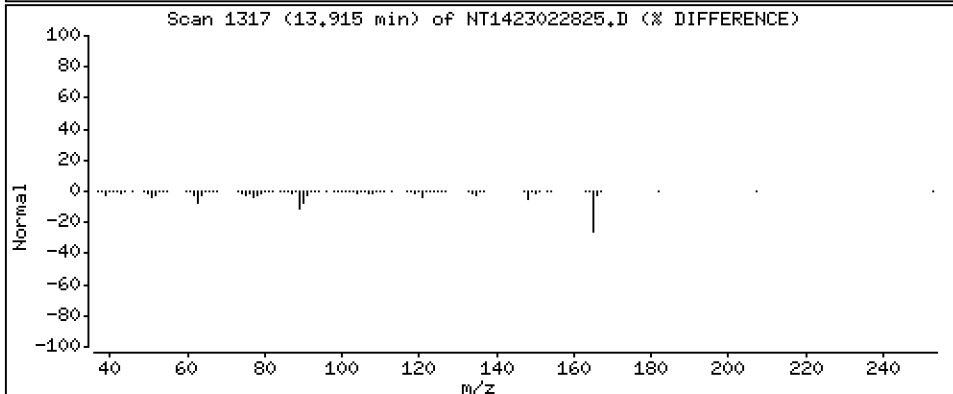
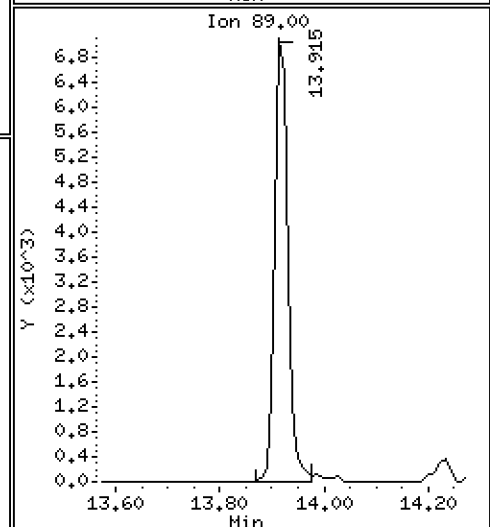
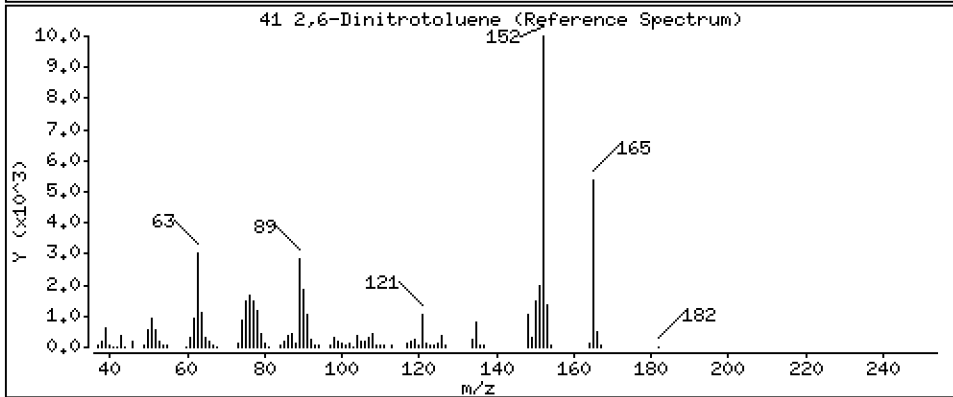
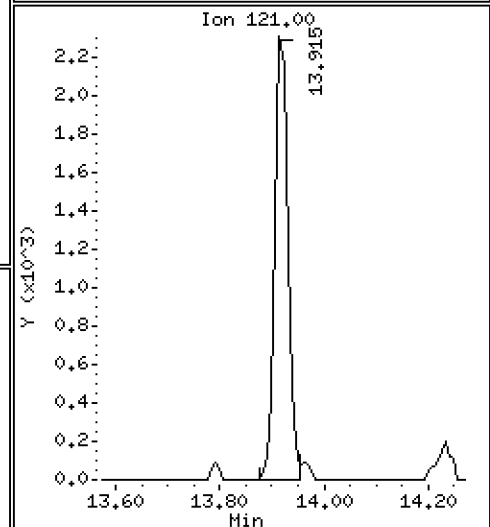
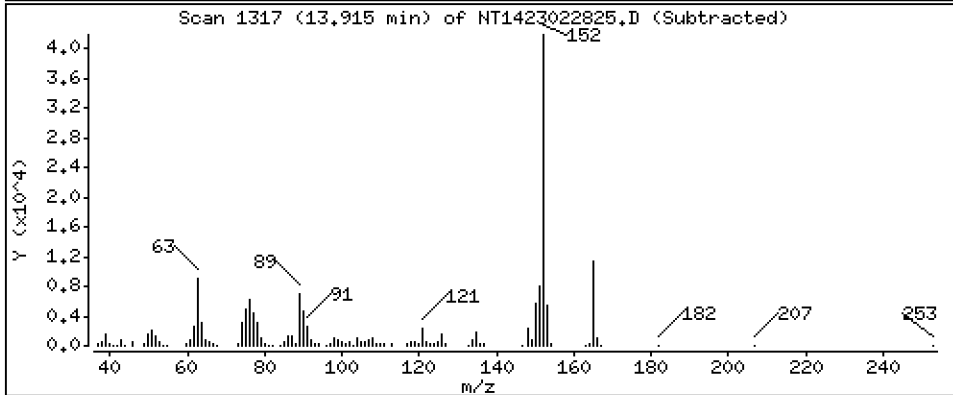
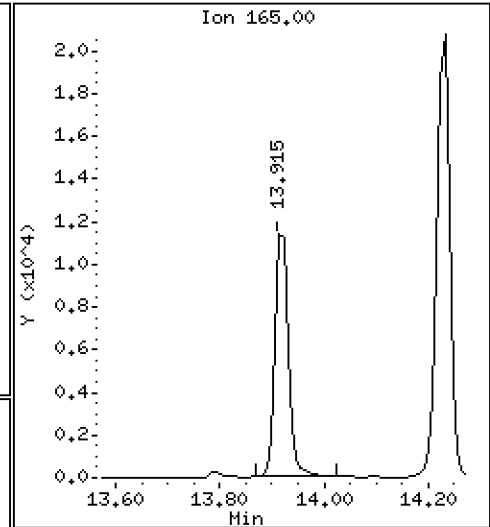
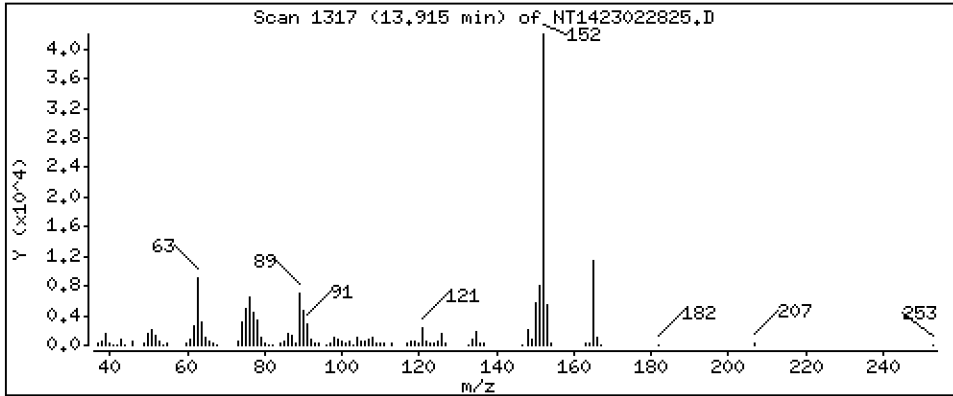
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 0,9944 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

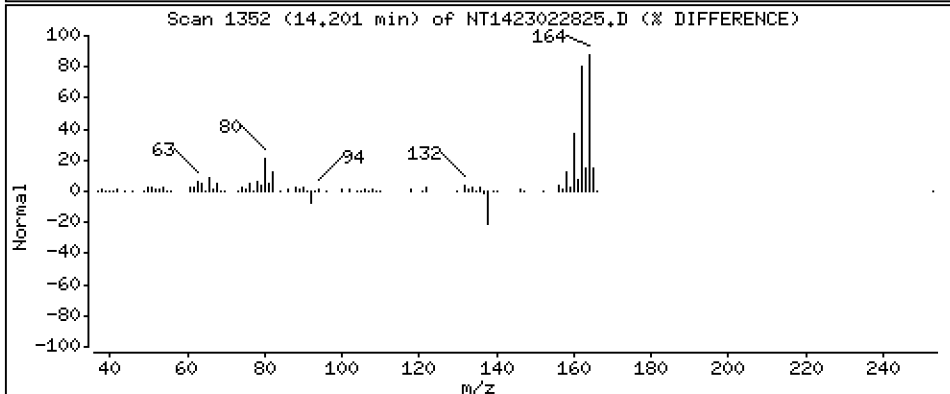
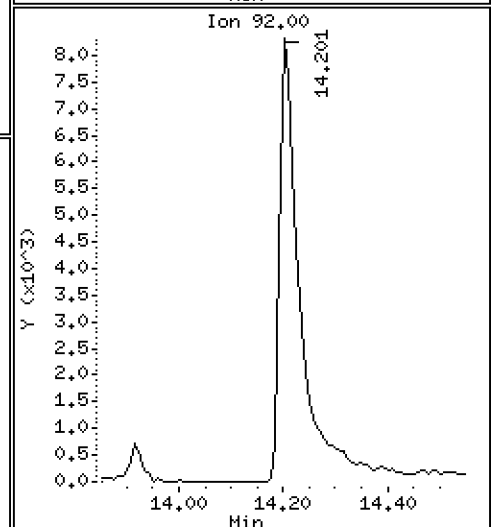
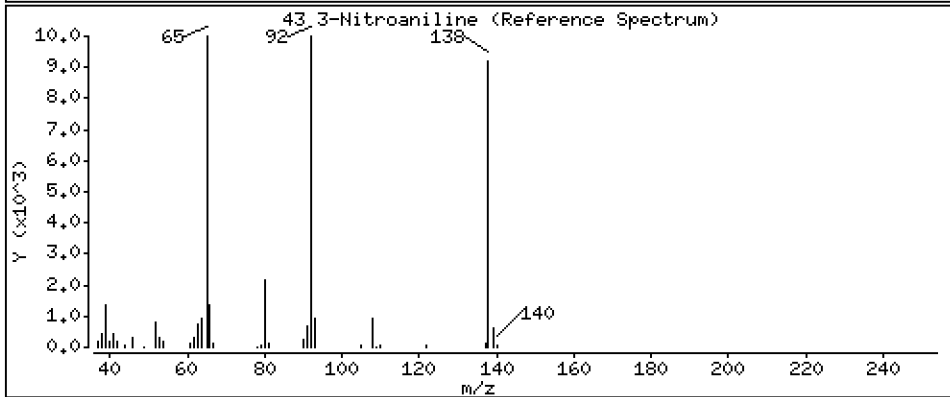
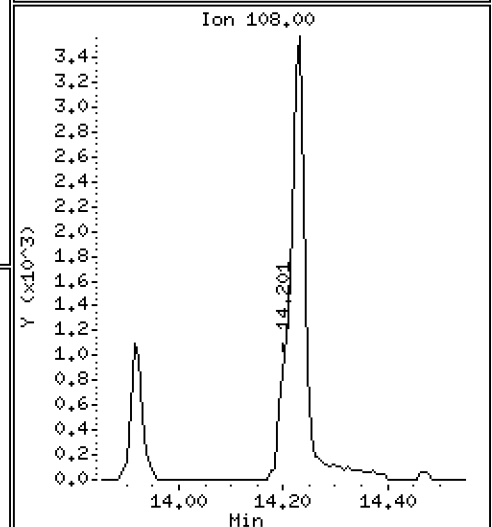
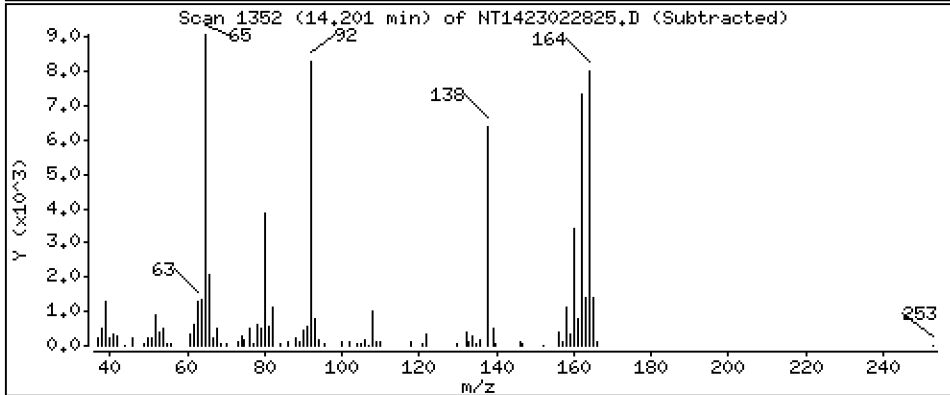
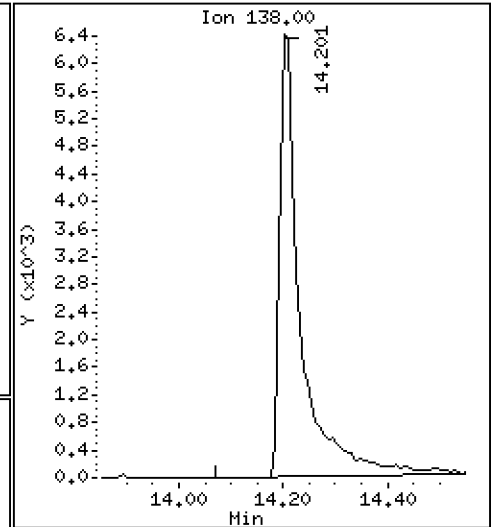
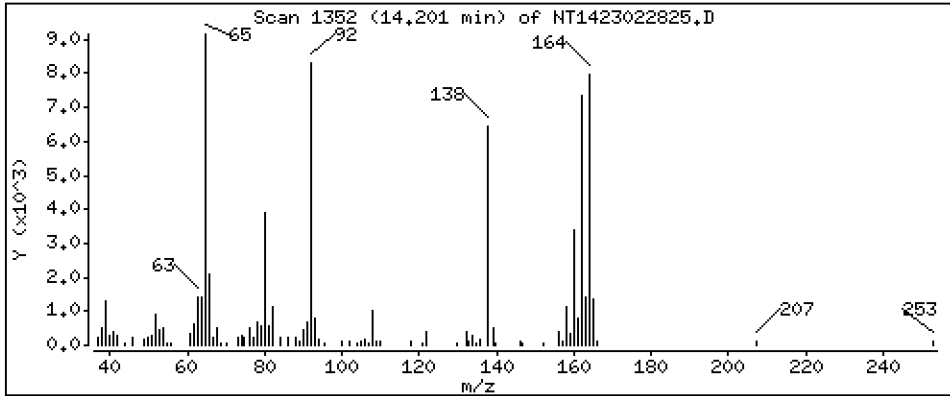
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,9113 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

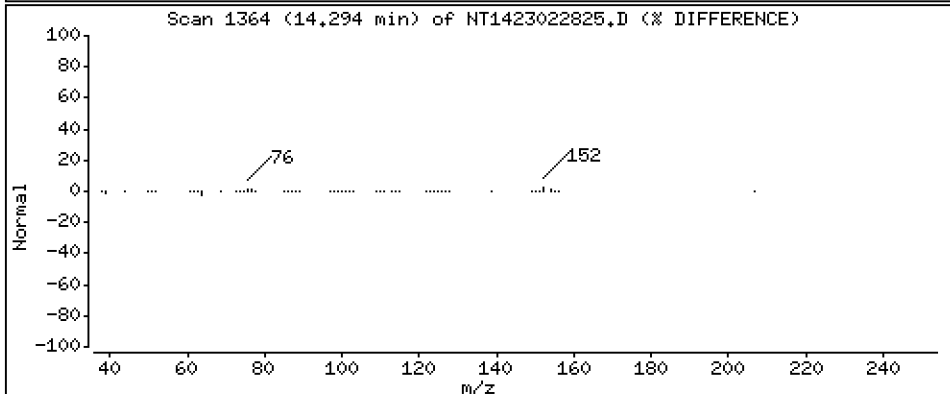
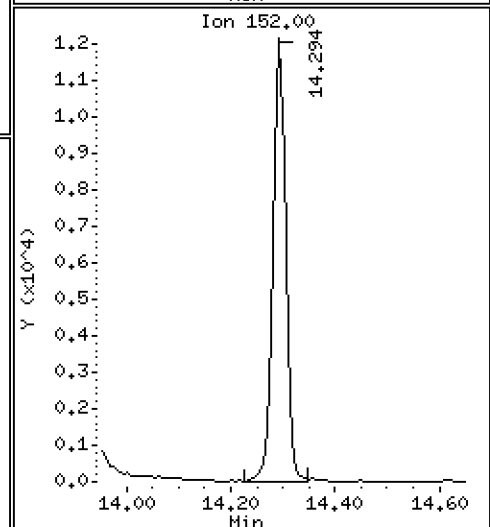
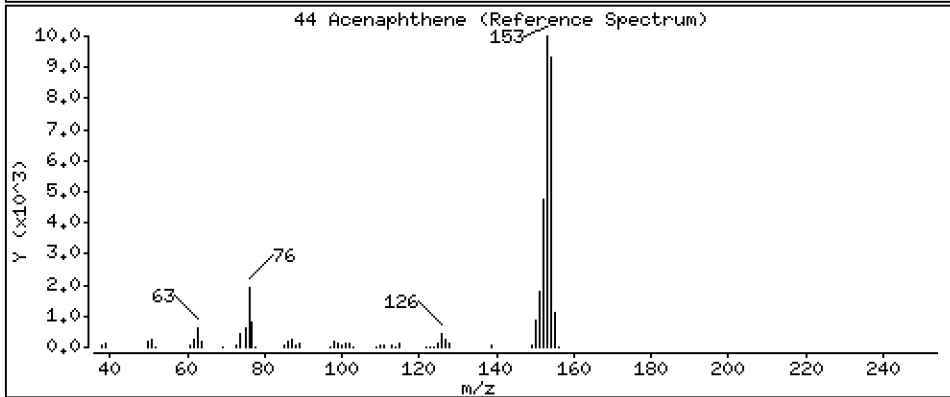
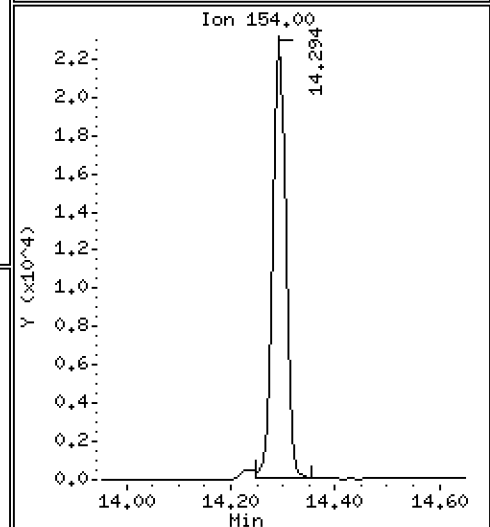
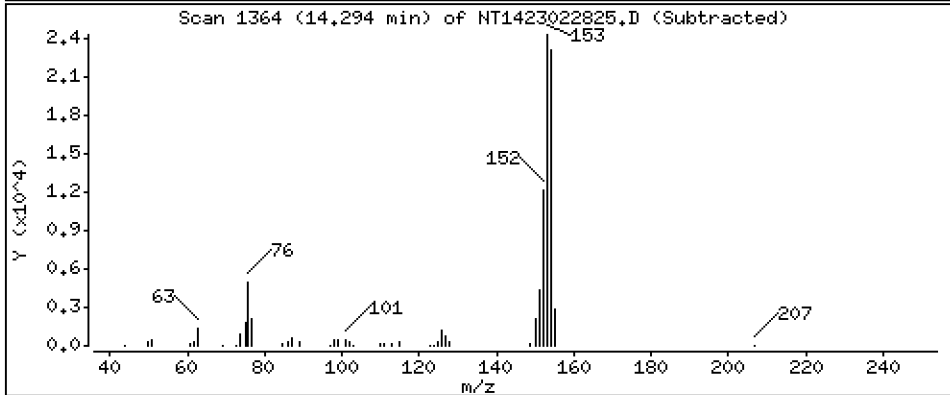
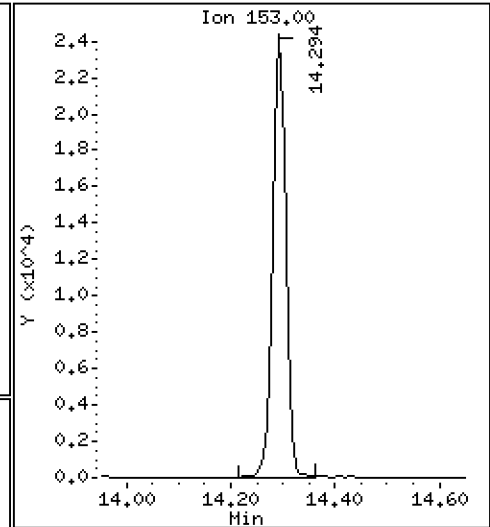
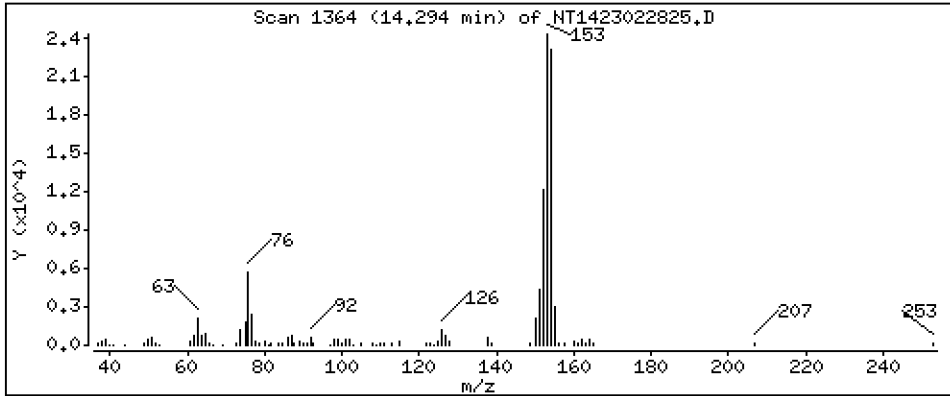
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,5211 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

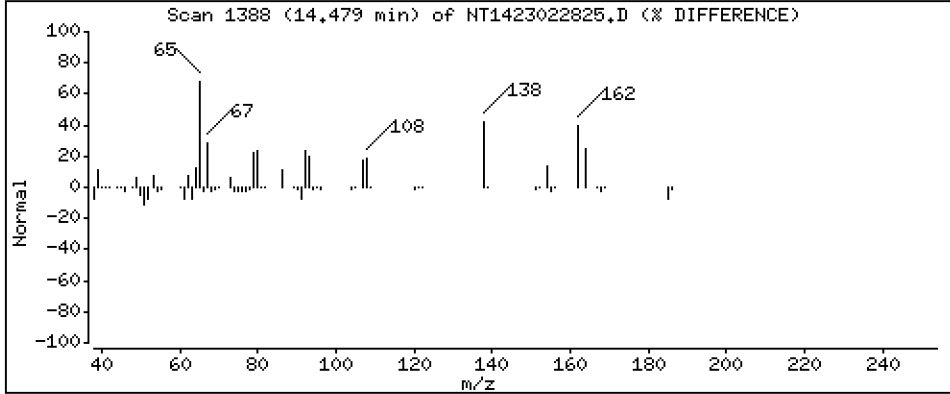
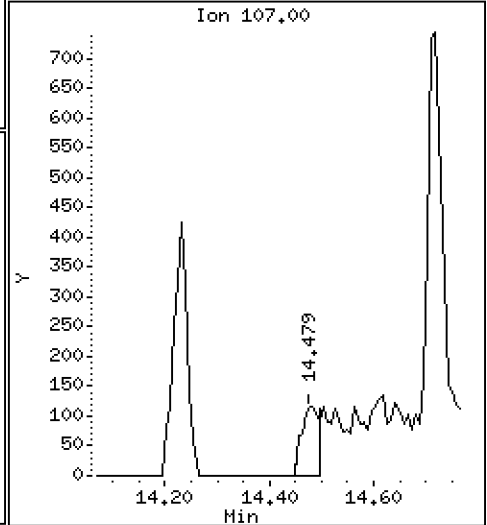
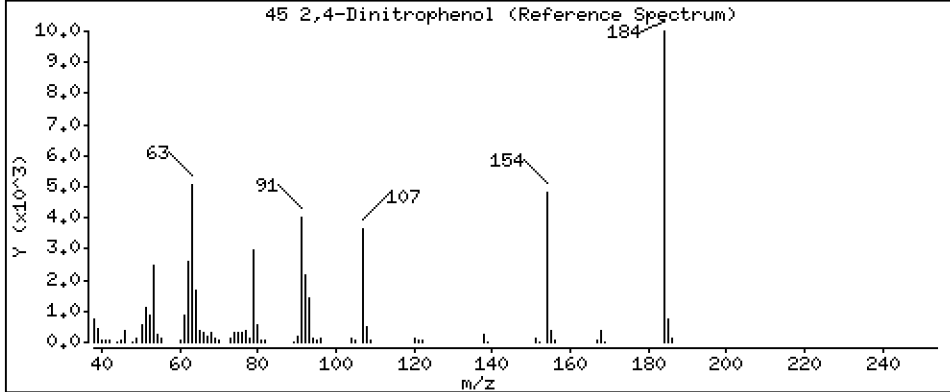
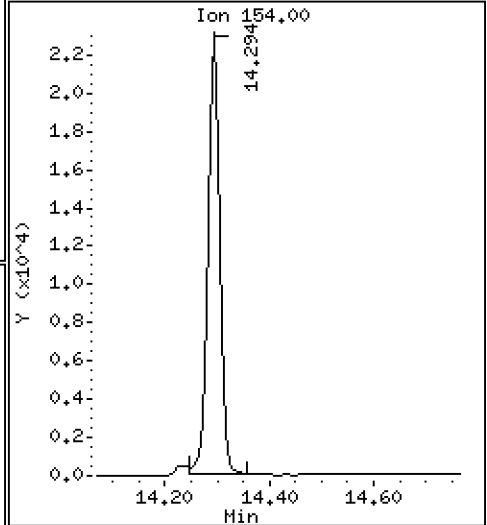
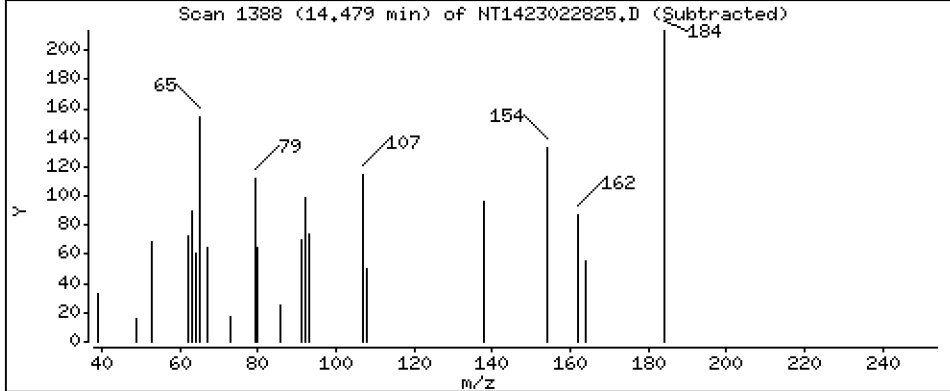
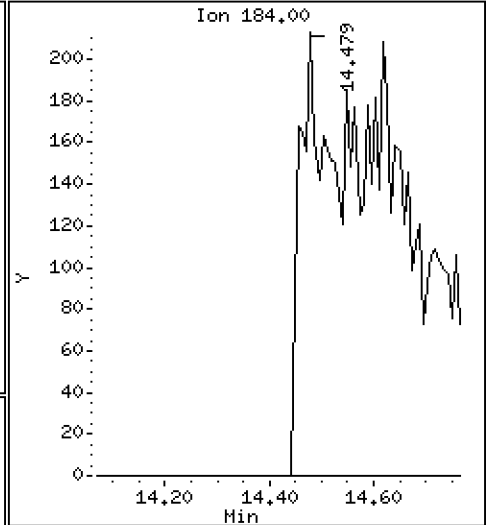
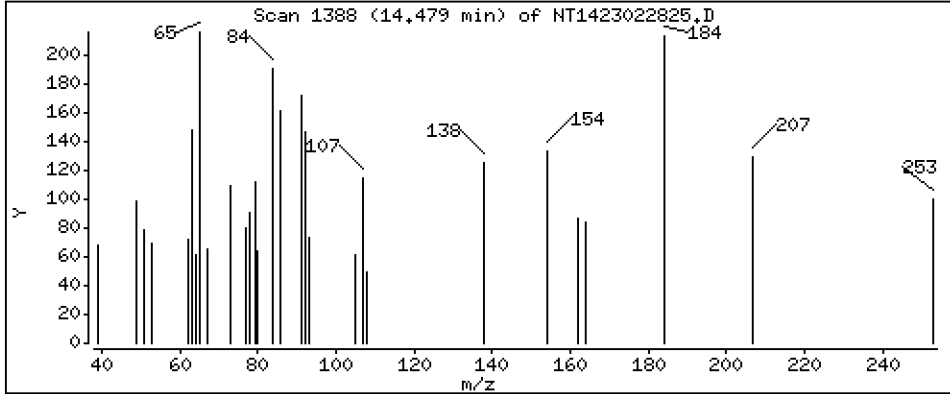
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,3335 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

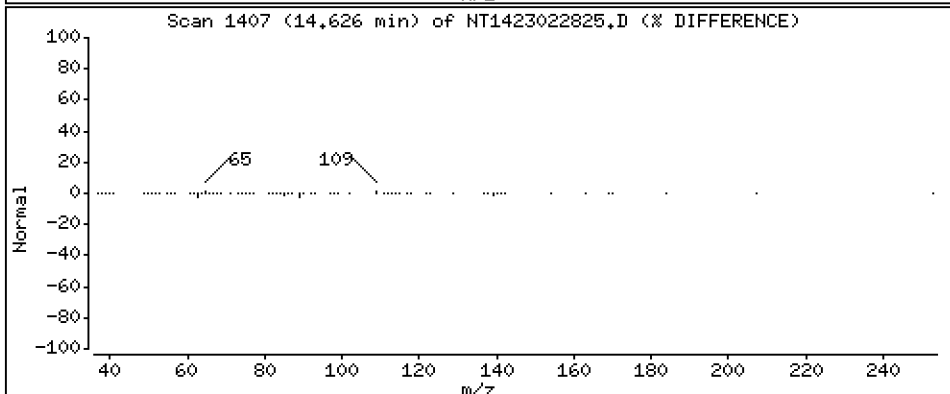
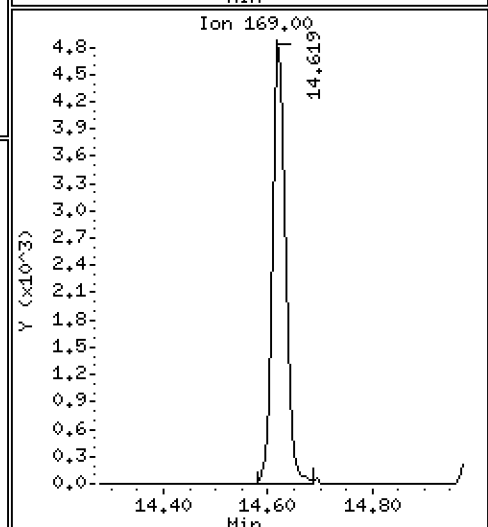
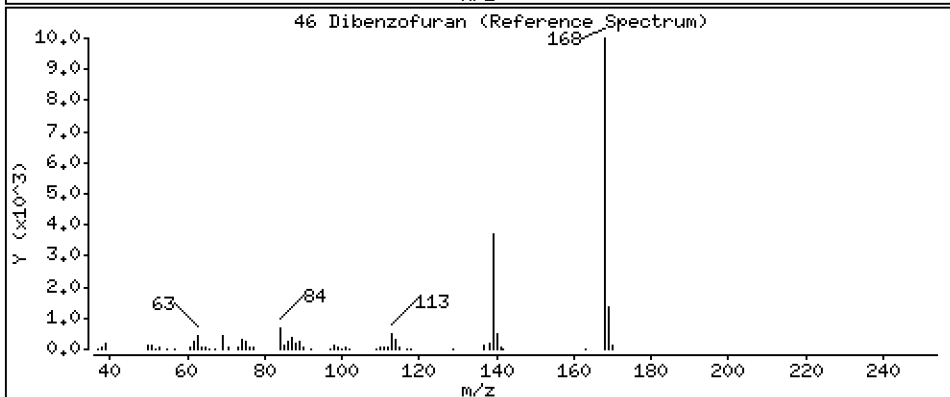
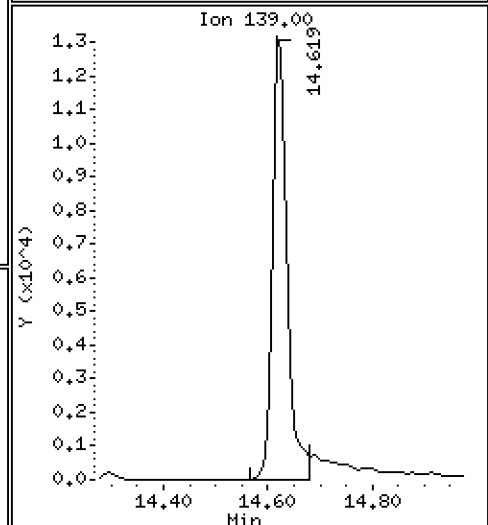
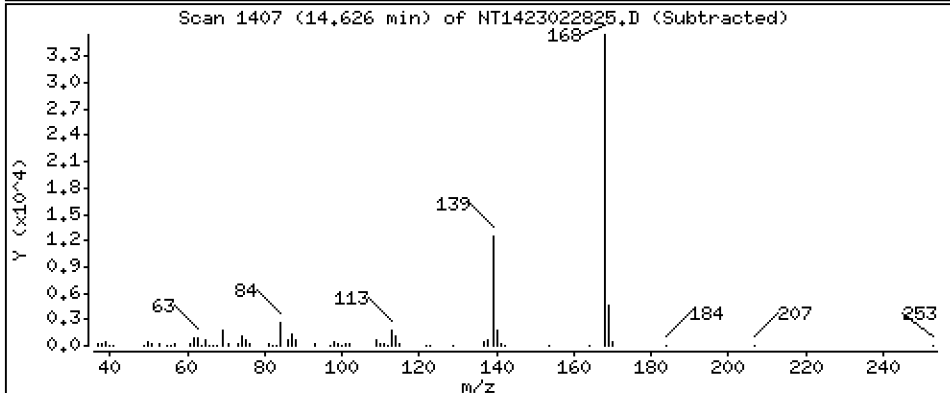
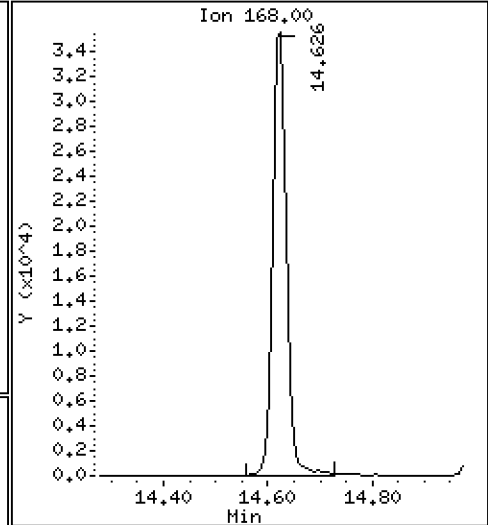
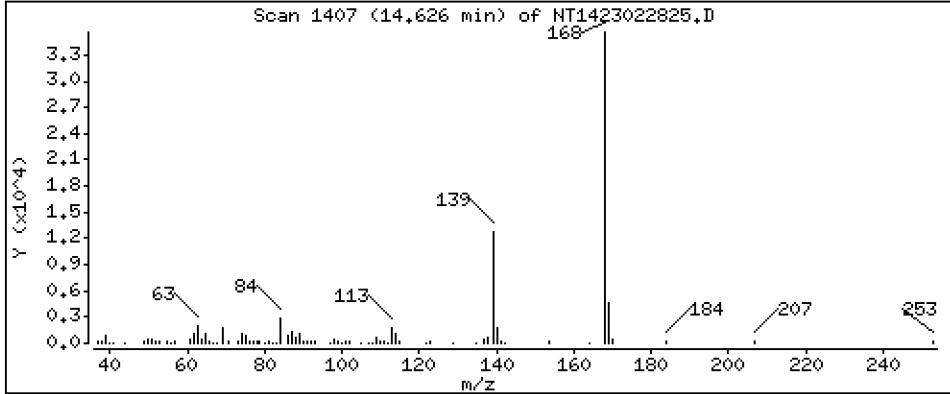
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,5081 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

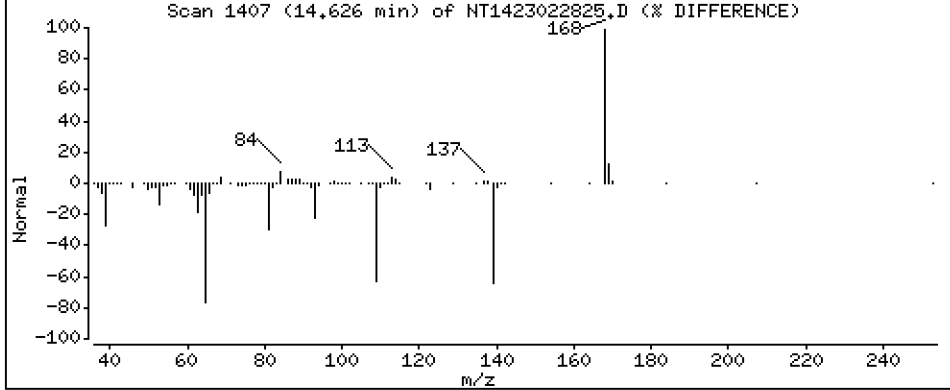
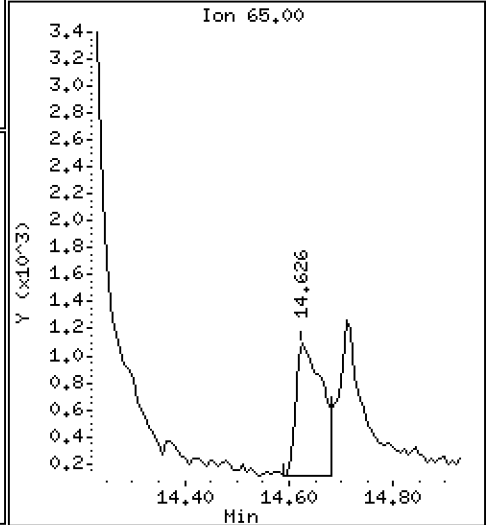
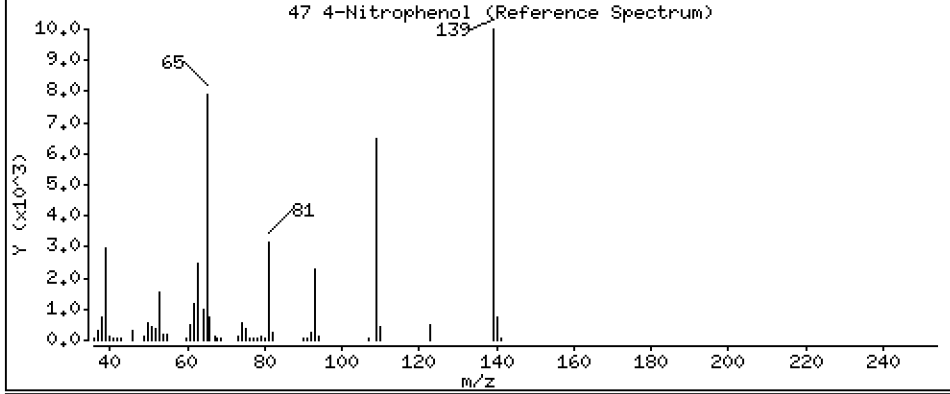
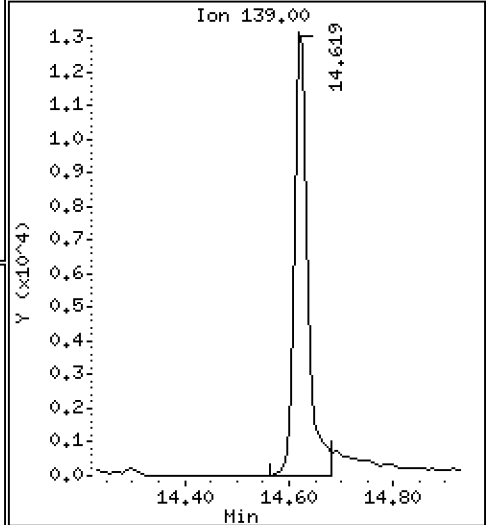
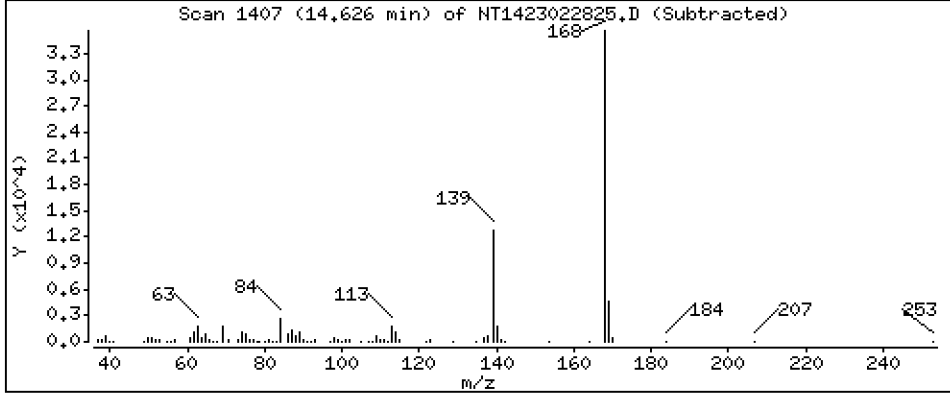
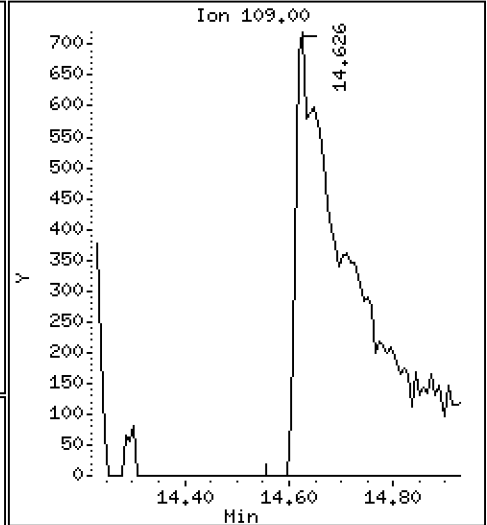
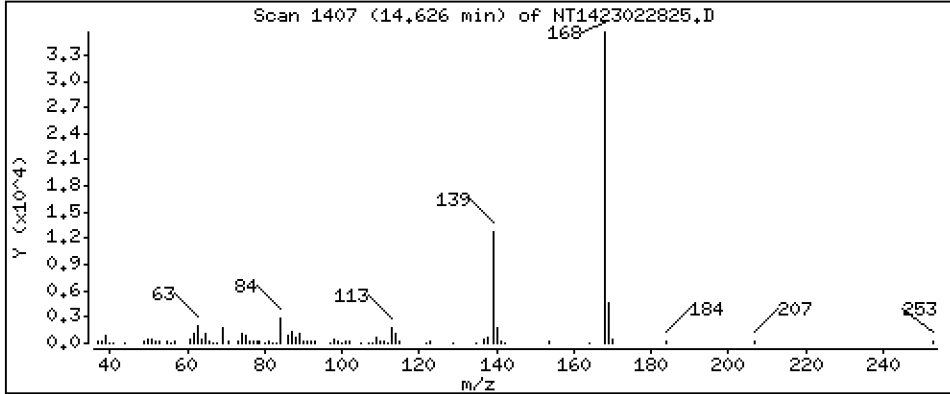
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,7283 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

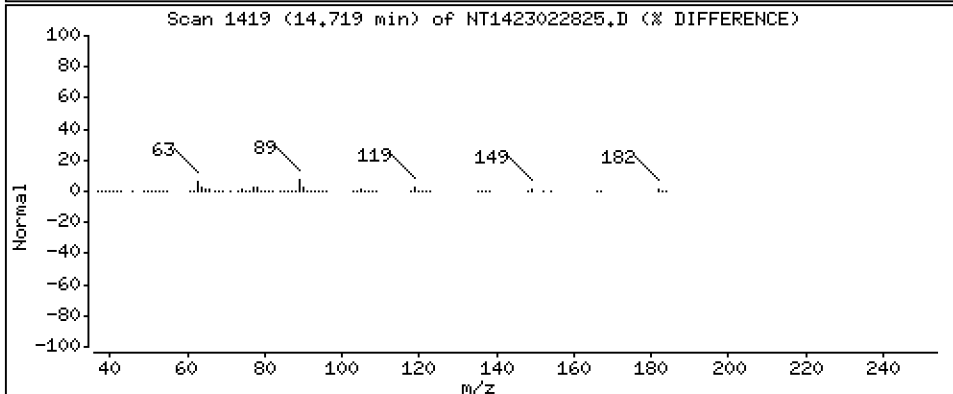
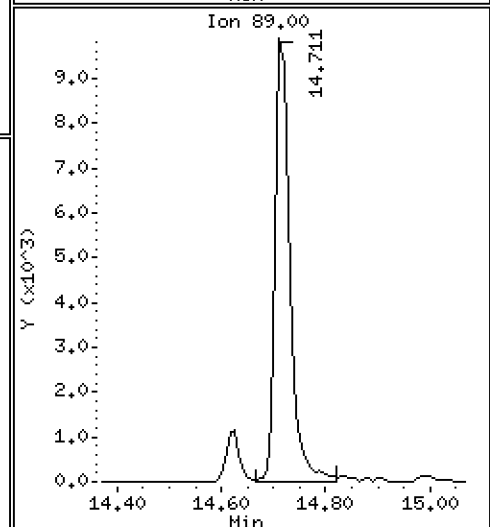
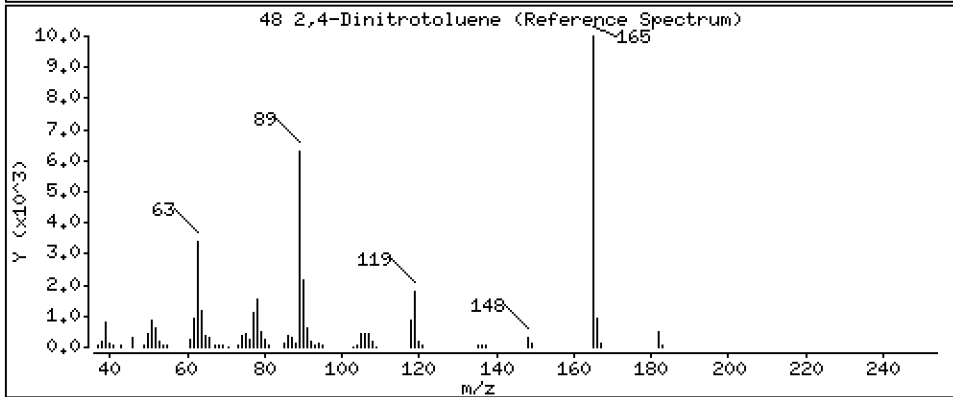
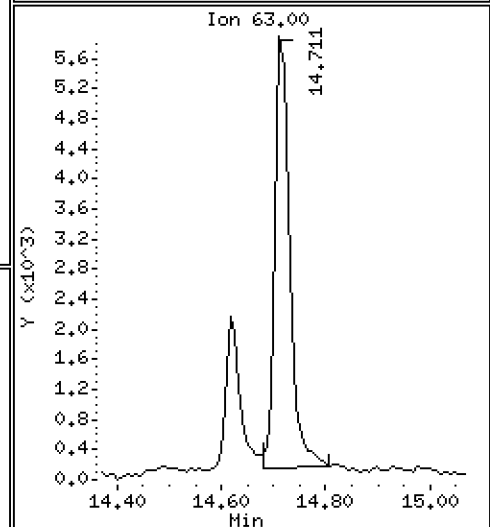
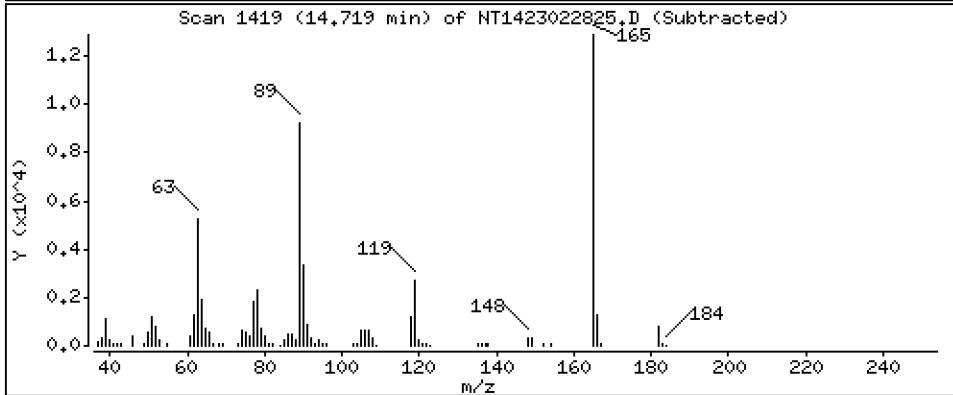
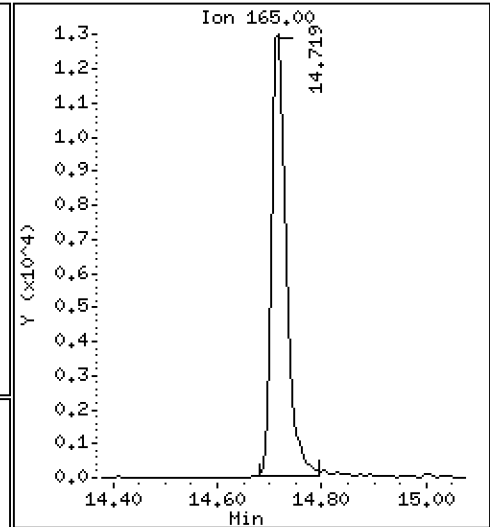
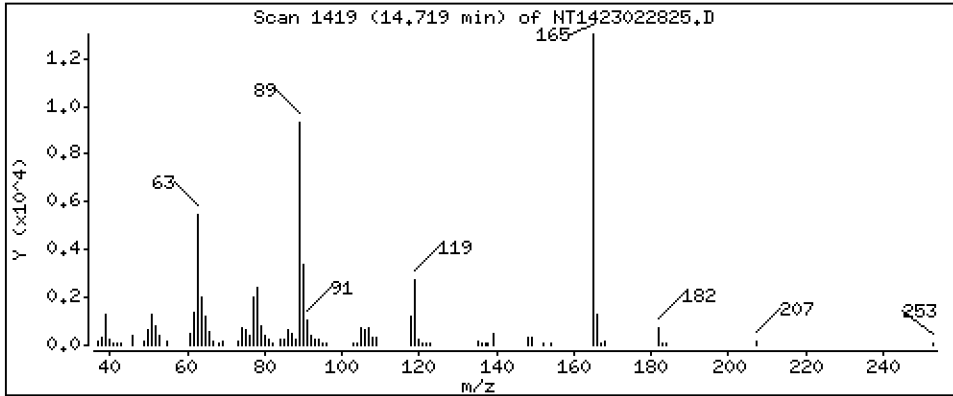
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.8625 ug/mL





Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

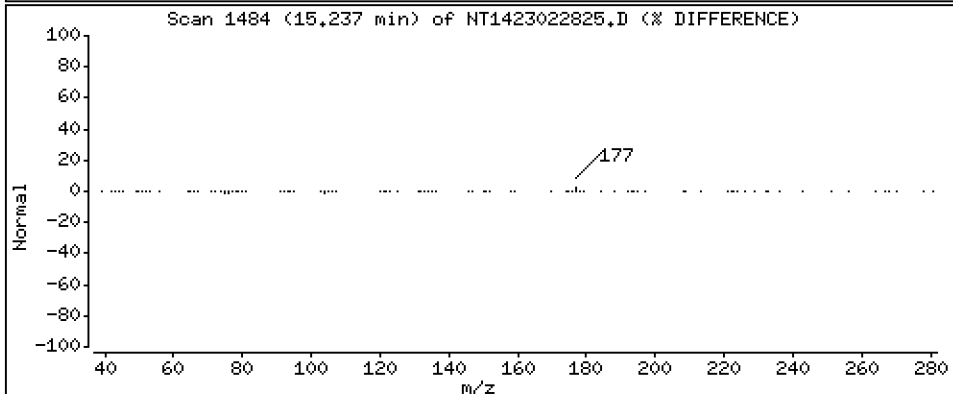
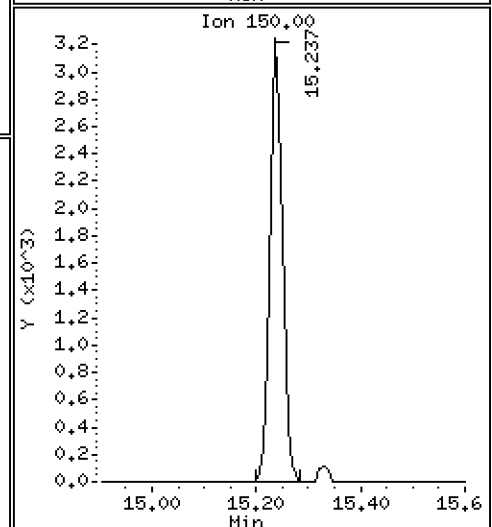
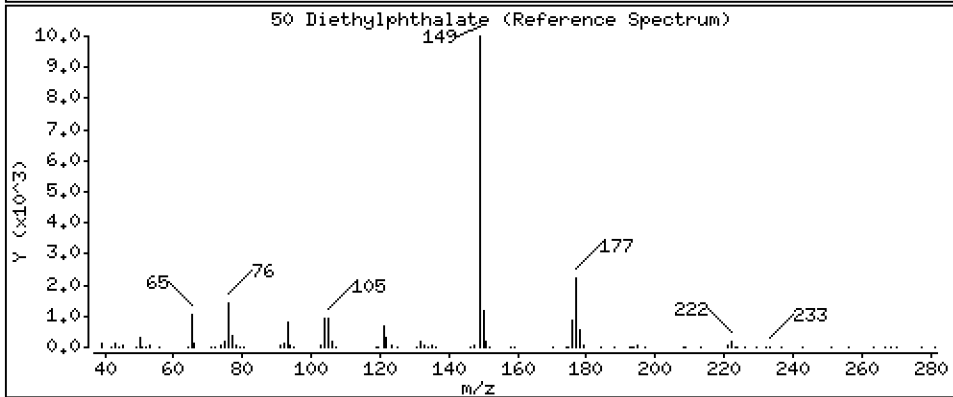
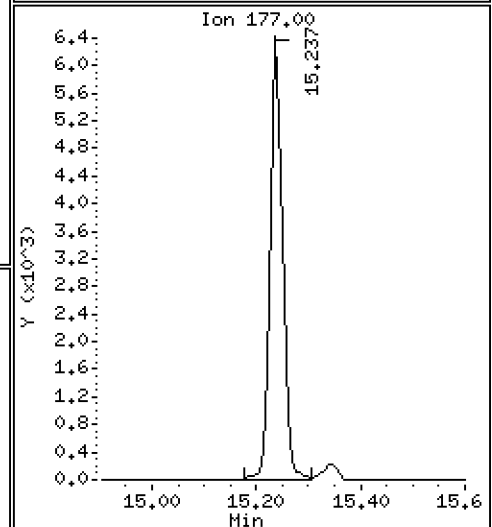
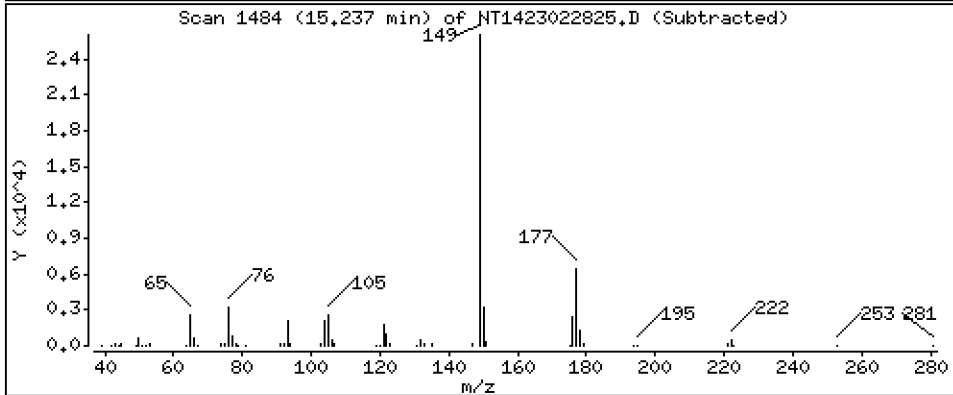
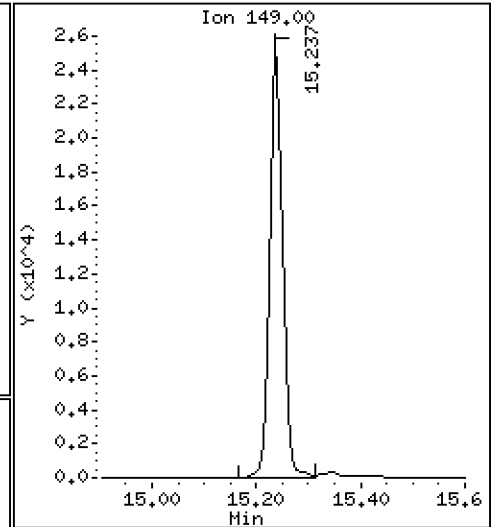
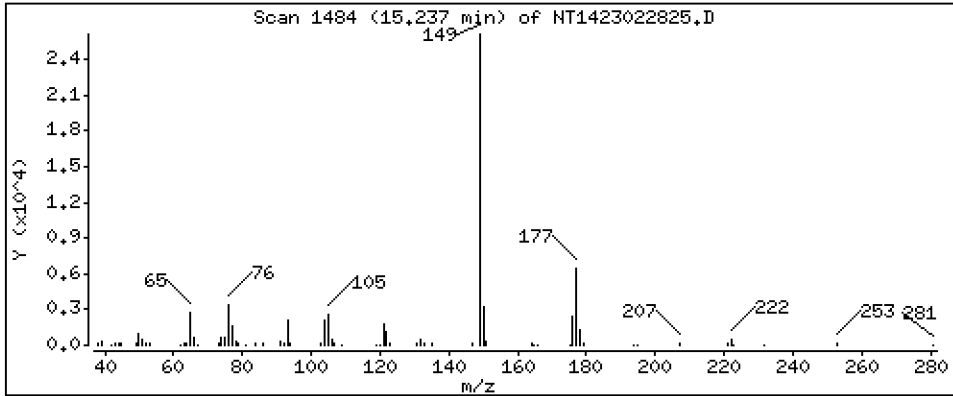
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 0.5434 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

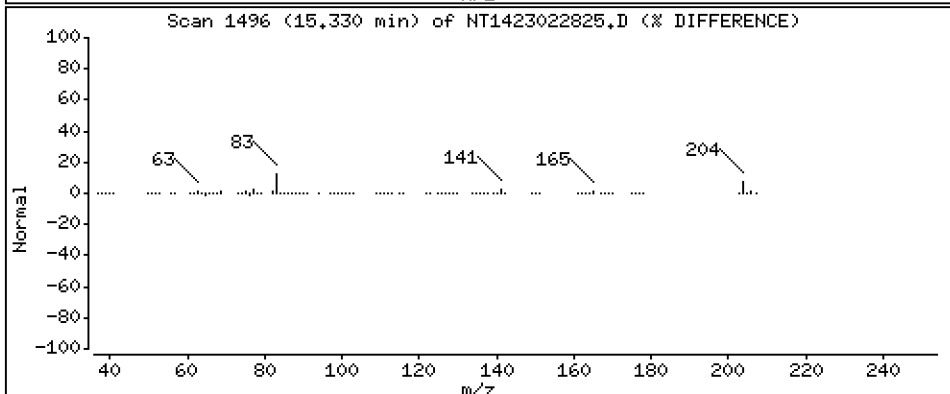
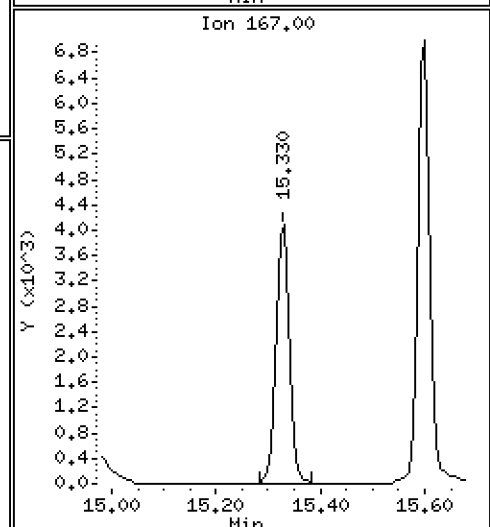
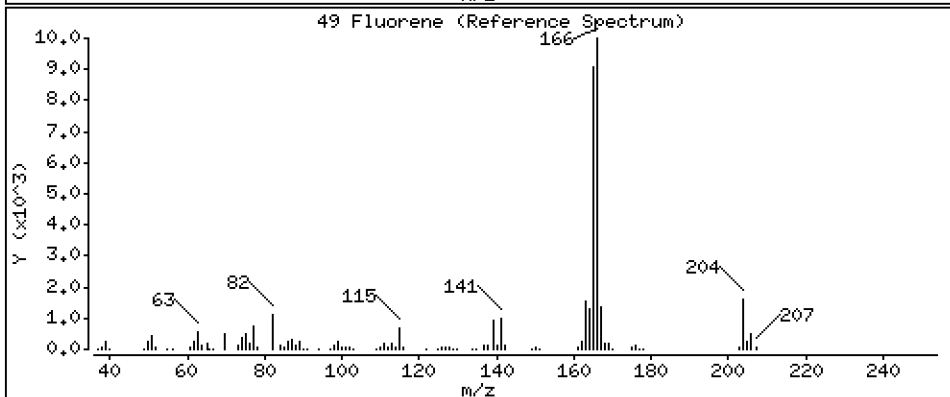
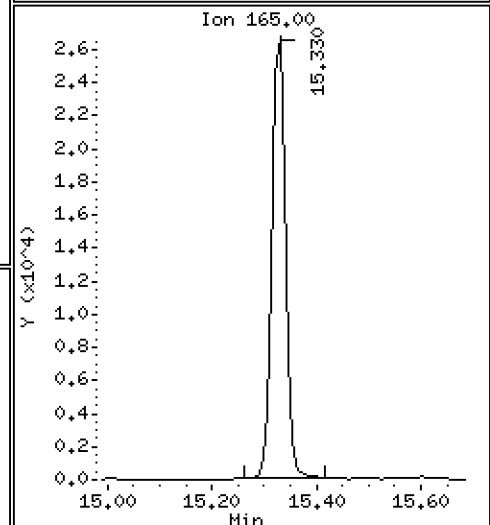
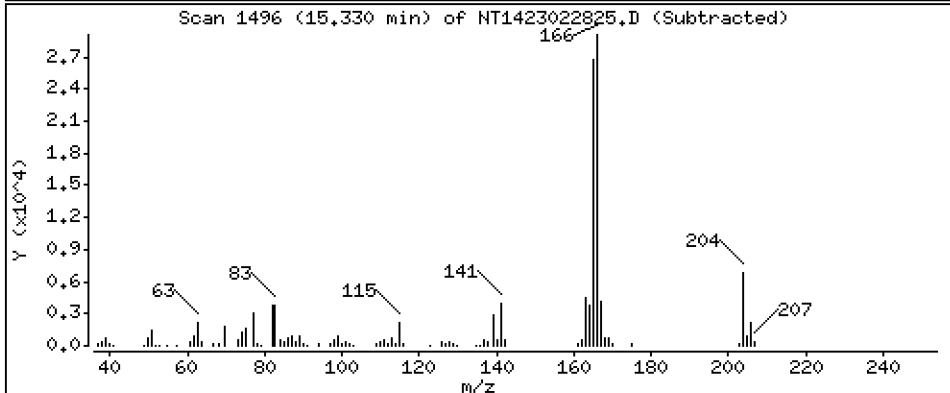
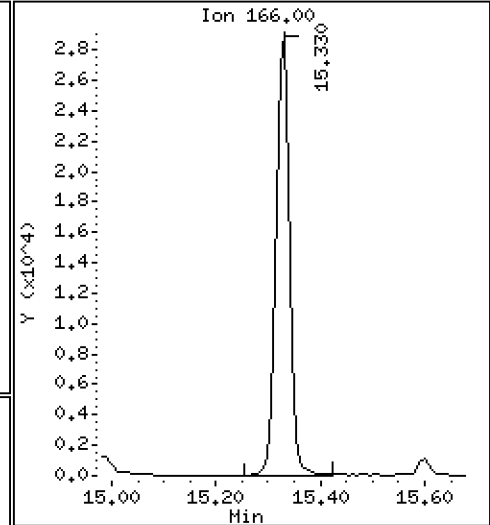
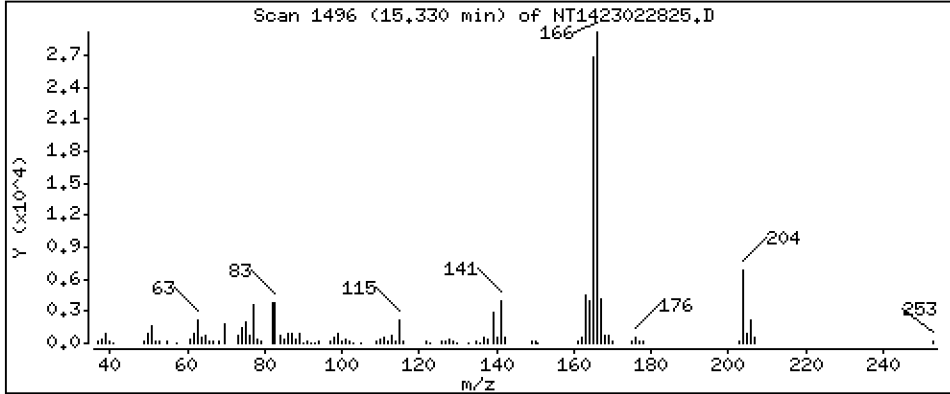
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,5354 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

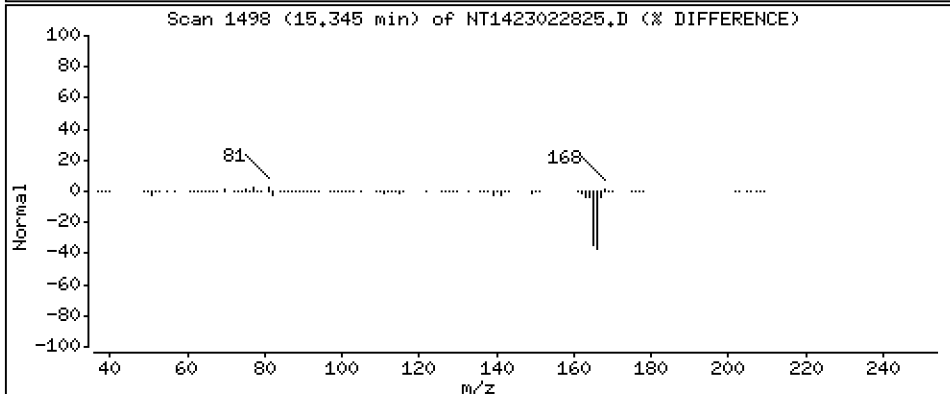
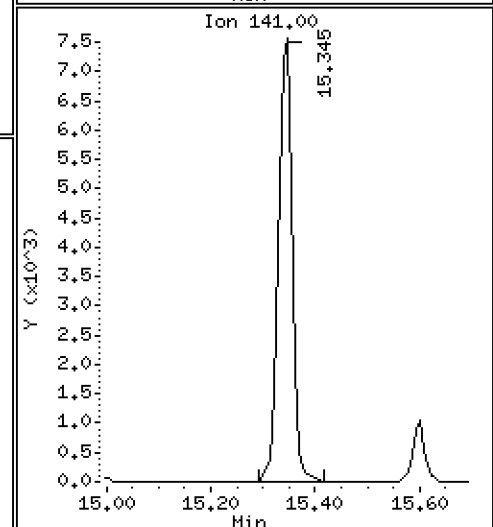
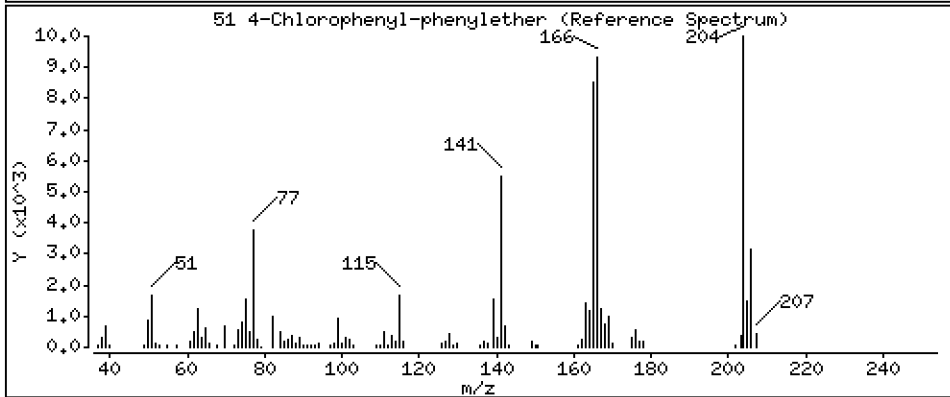
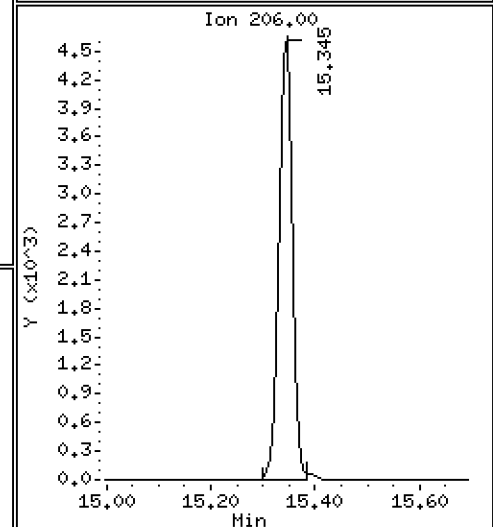
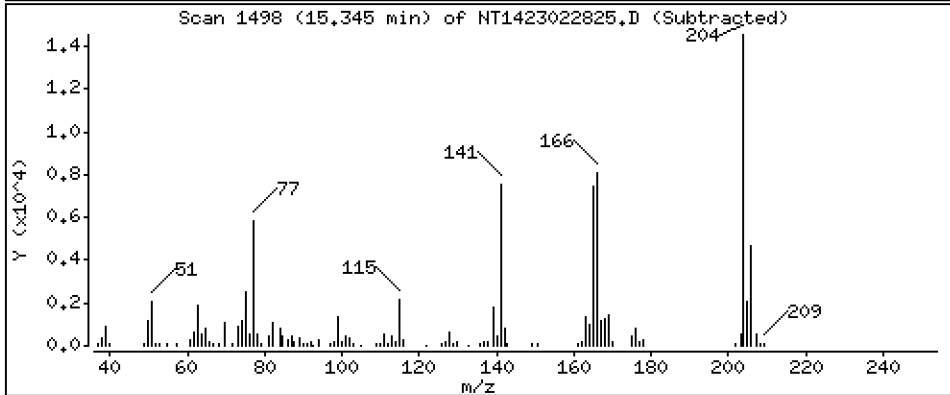
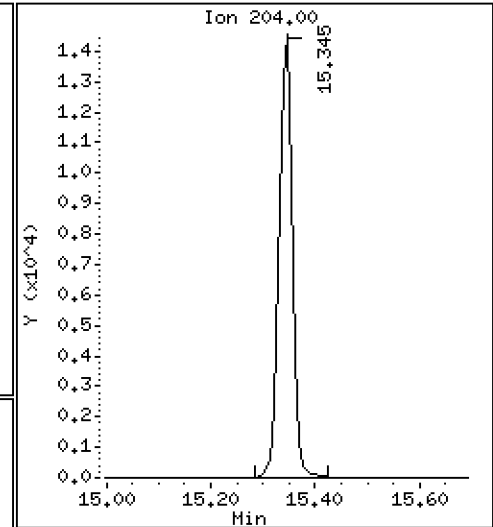
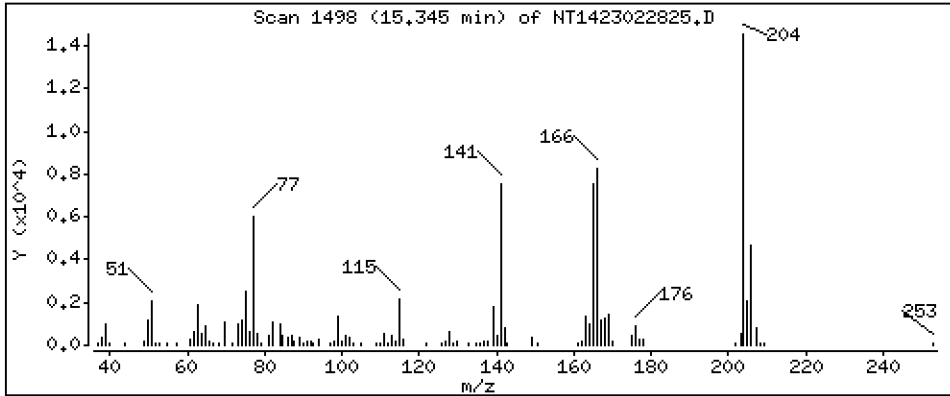
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,5072 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

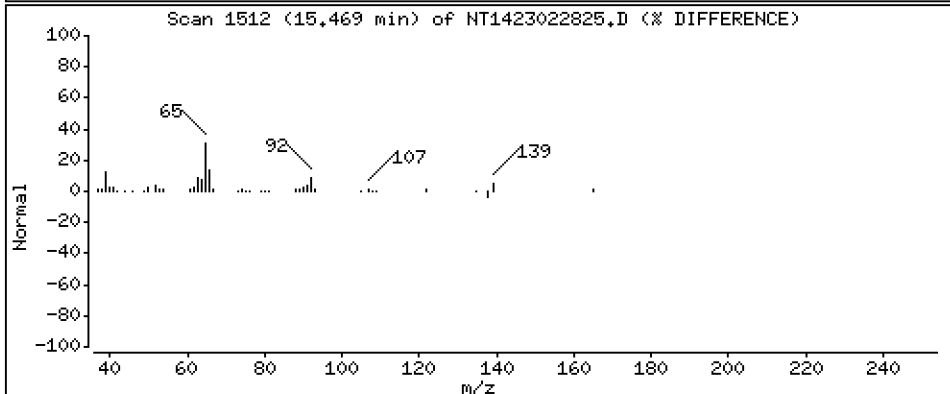
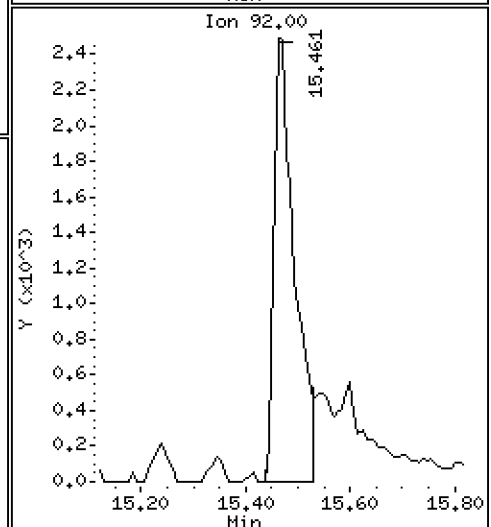
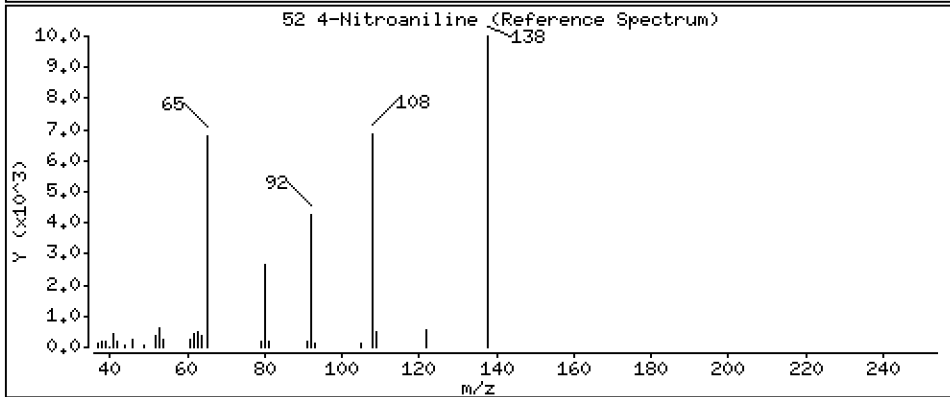
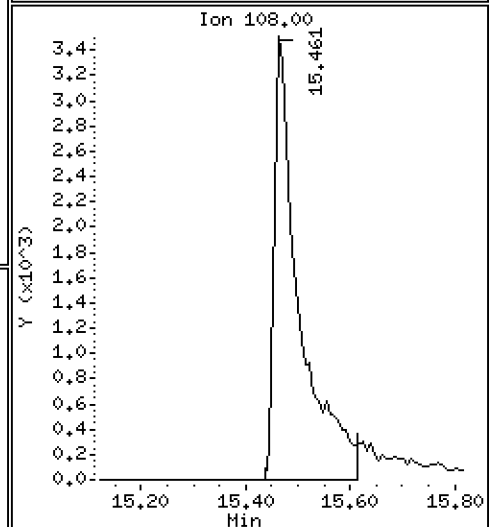
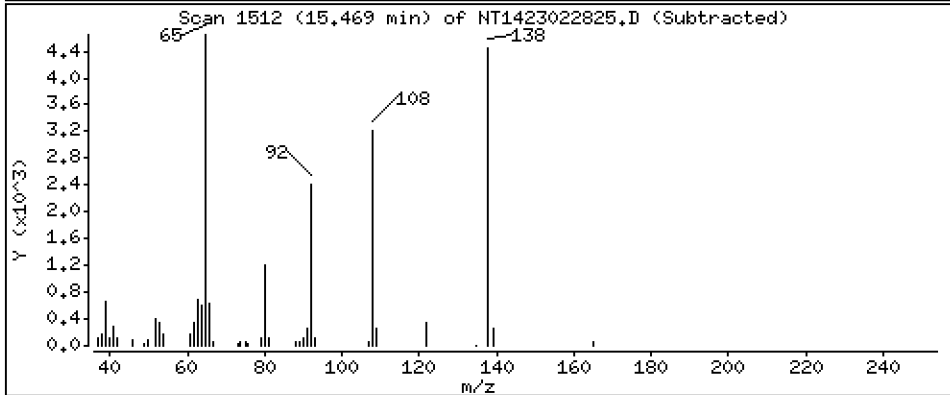
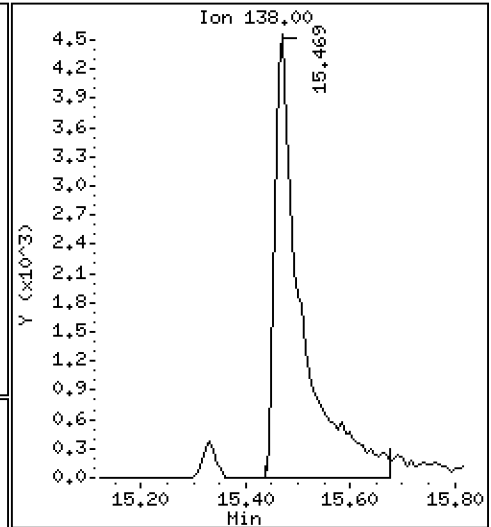
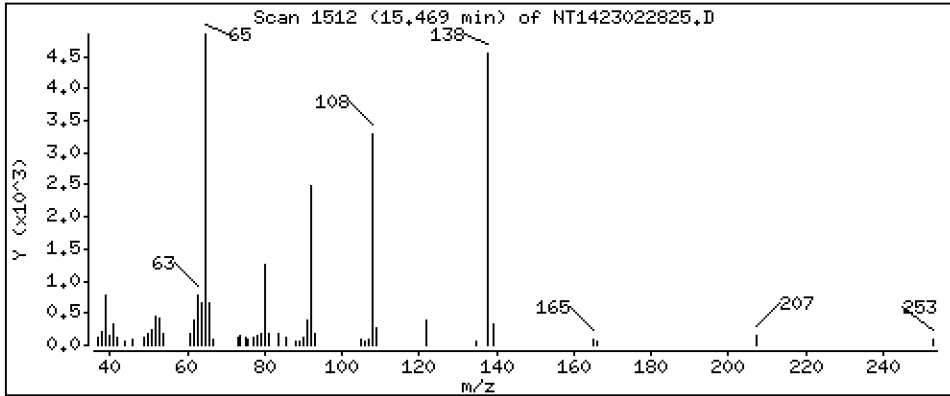
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,8070 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

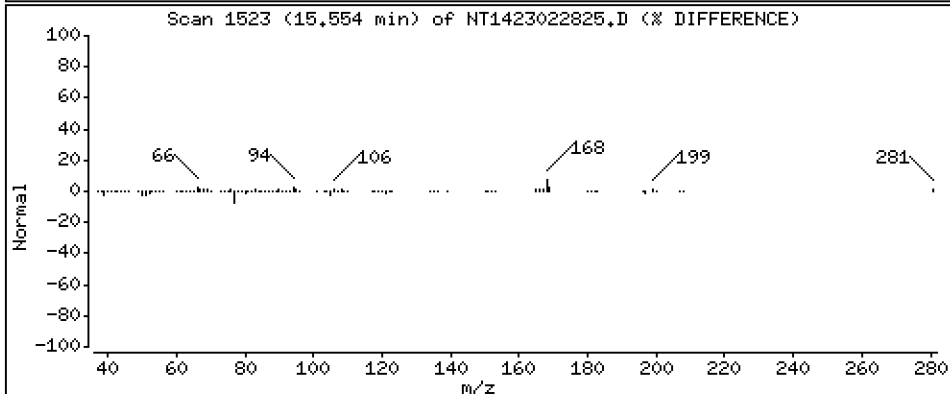
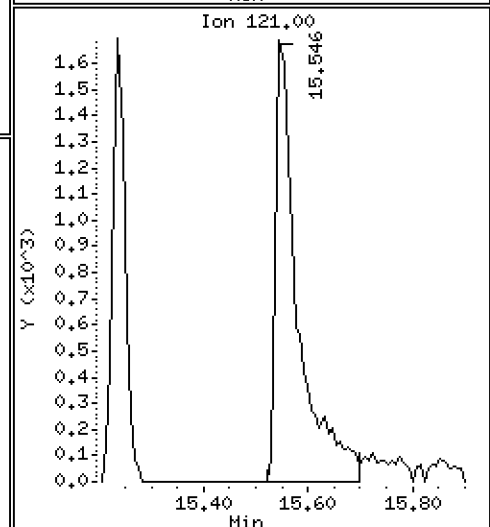
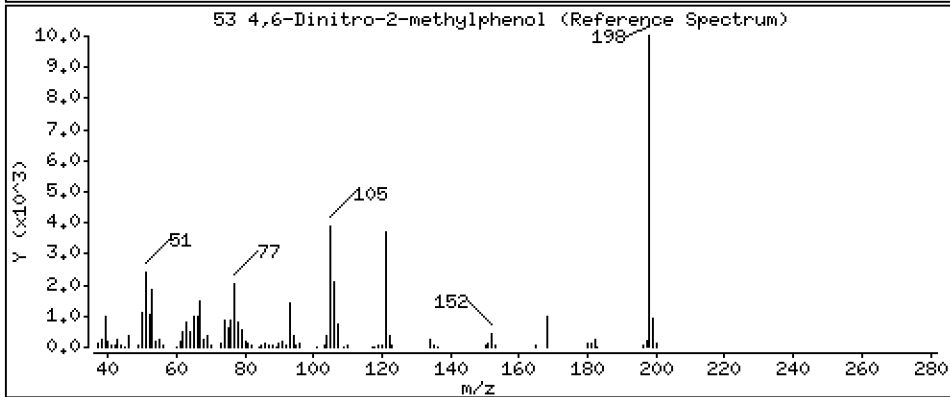
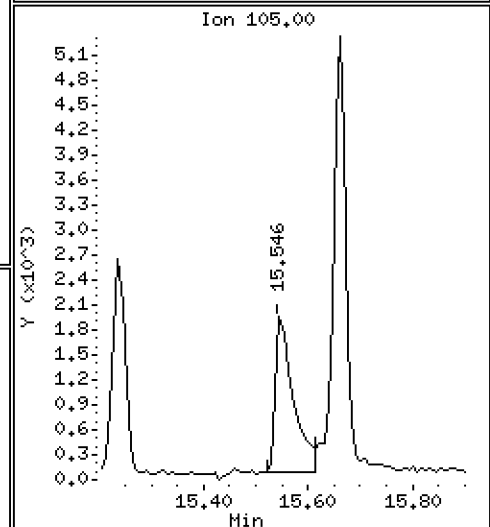
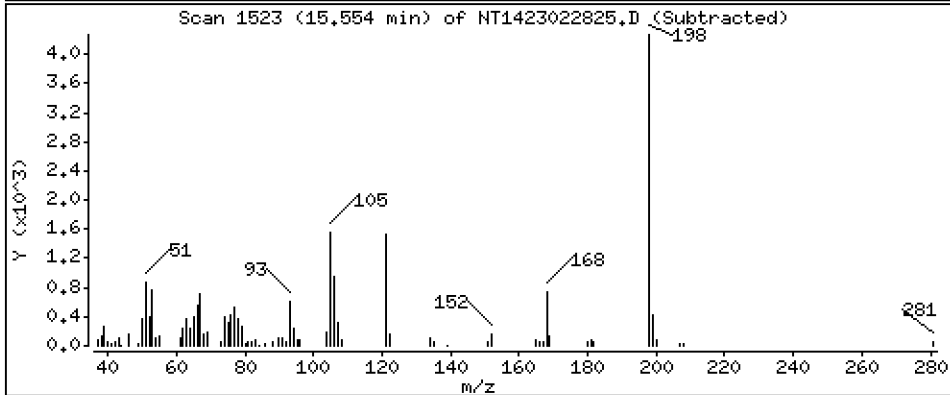
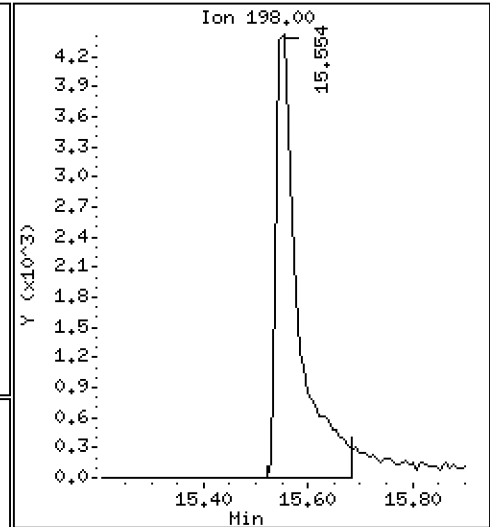
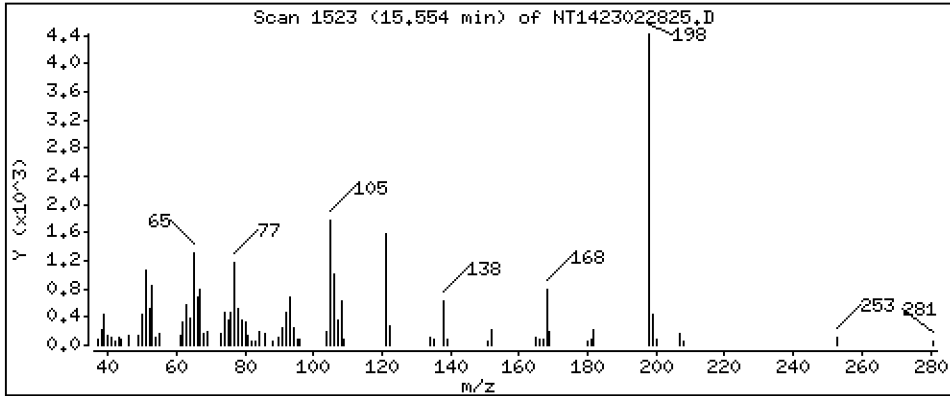
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,7654 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

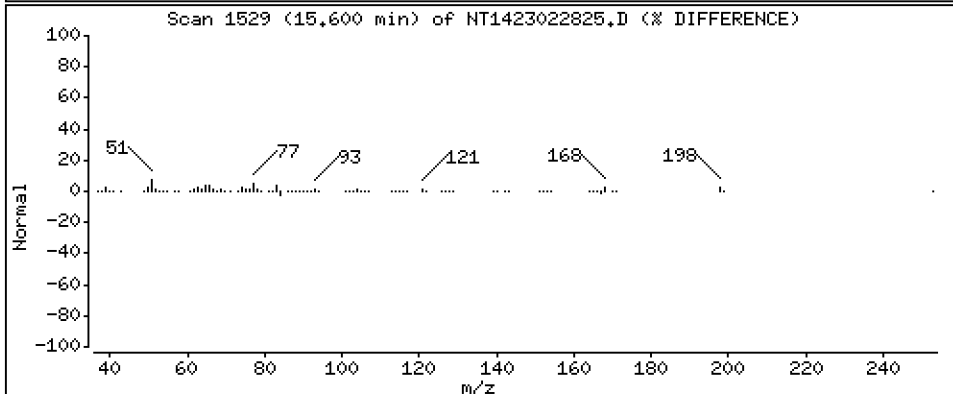
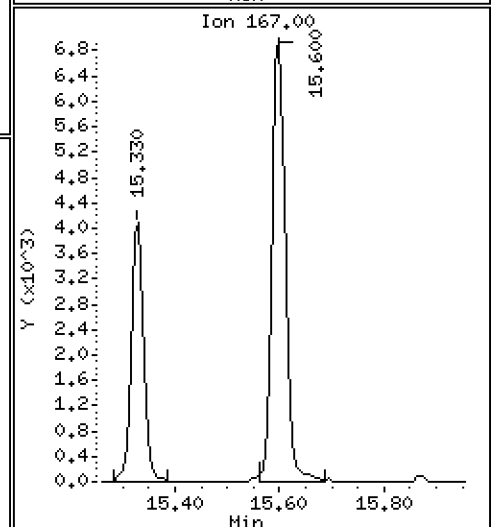
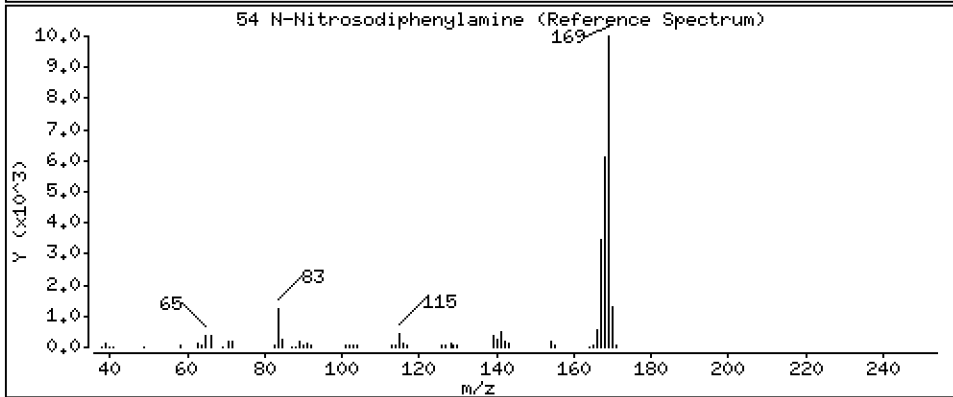
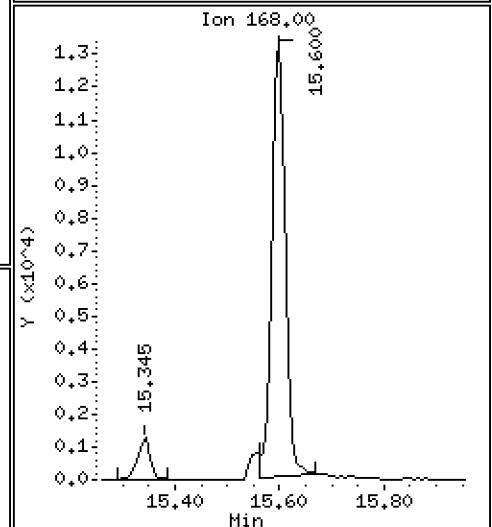
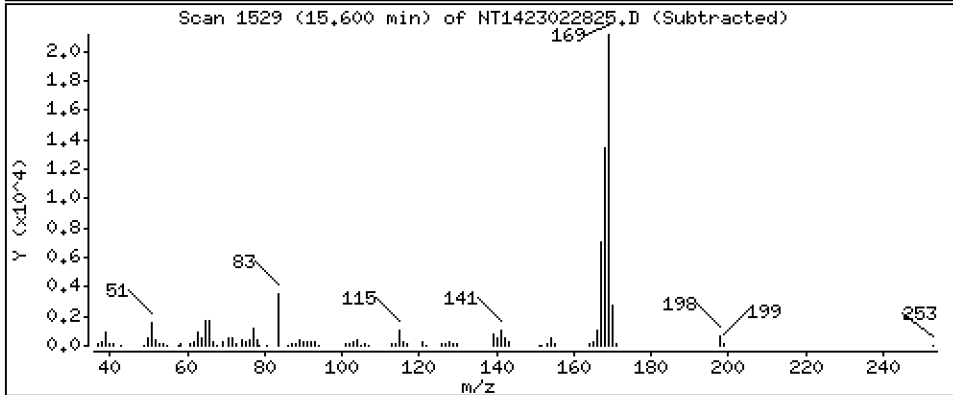
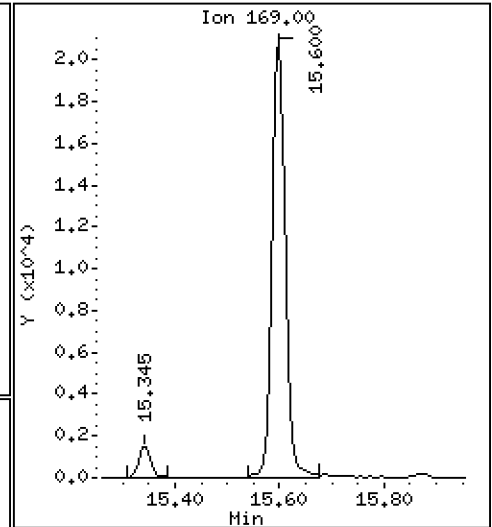
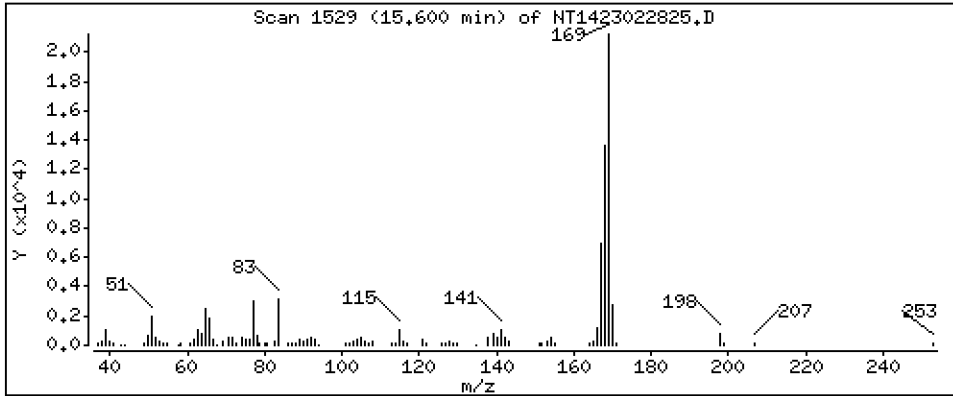
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,5552 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

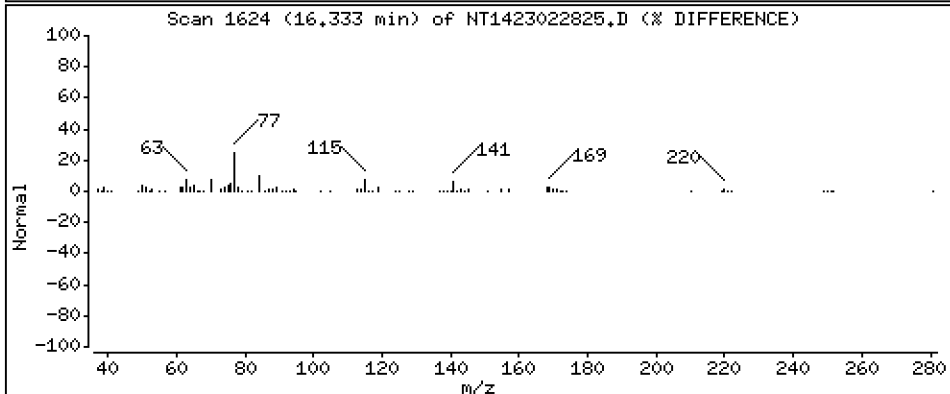
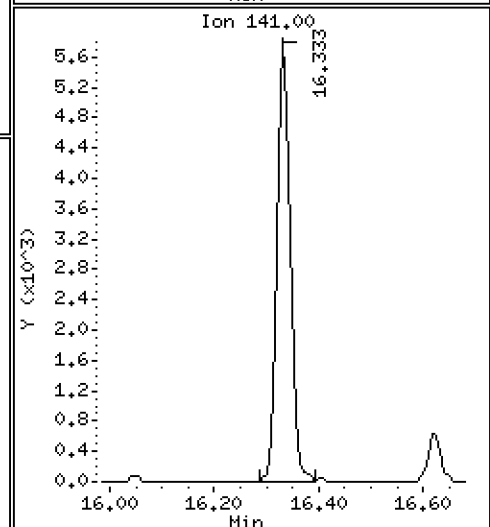
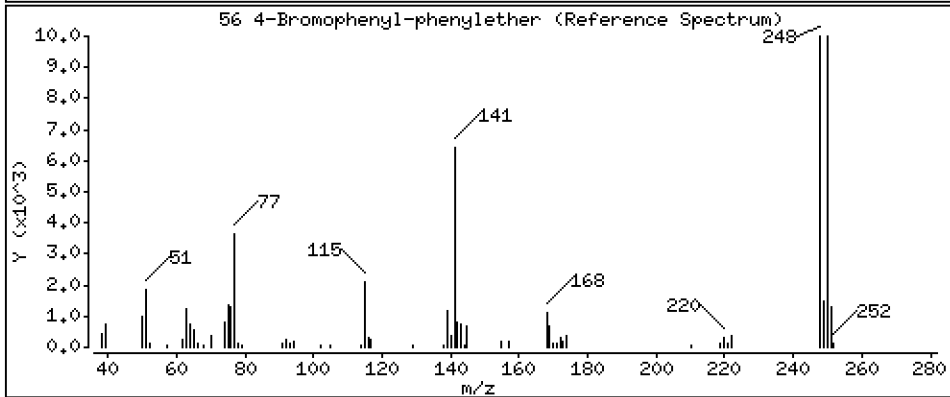
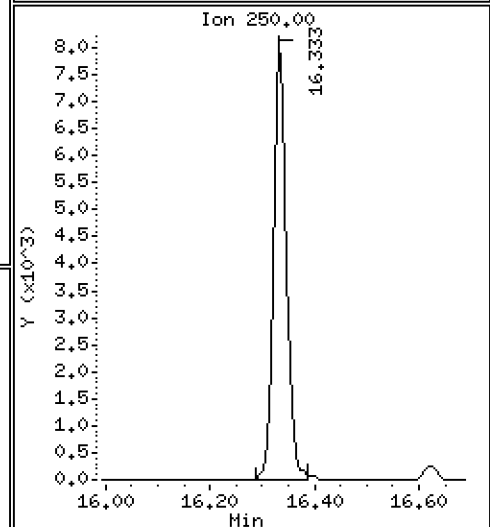
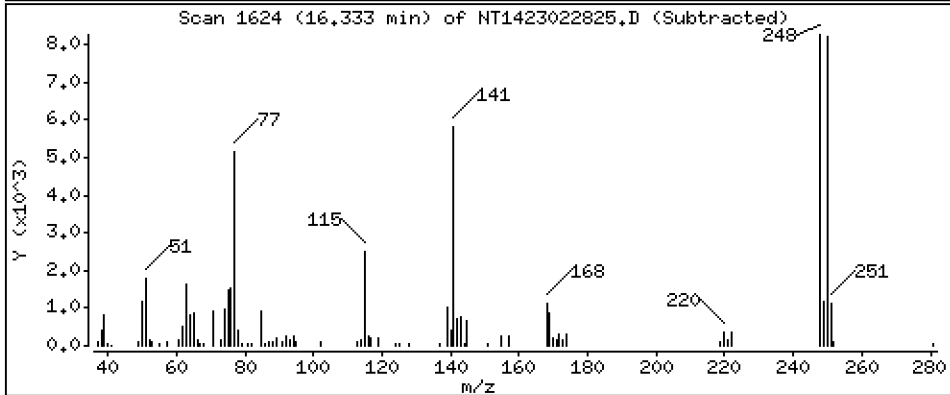
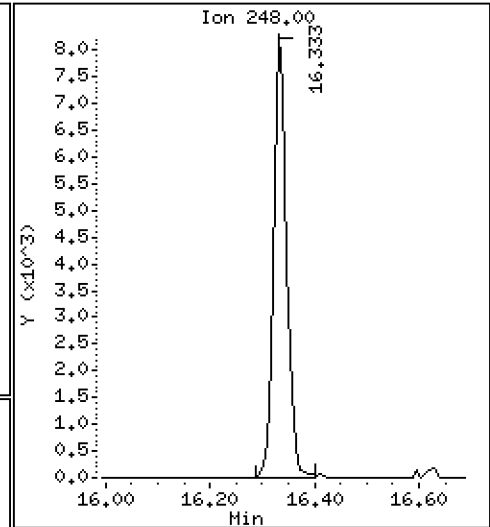
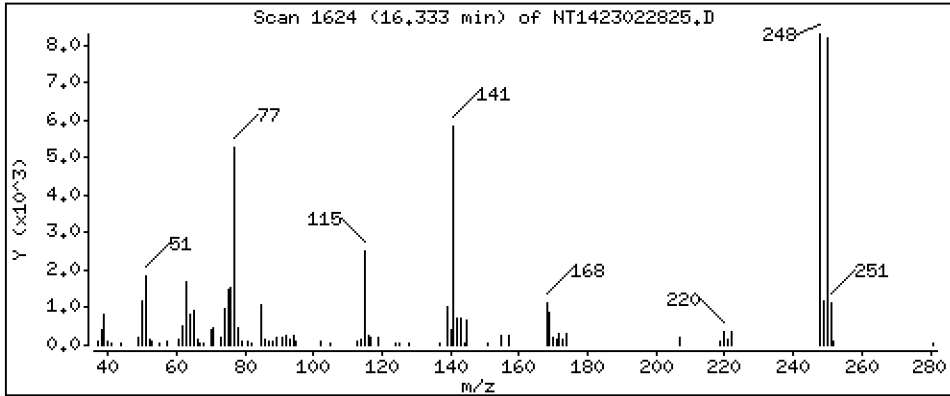
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,5135 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

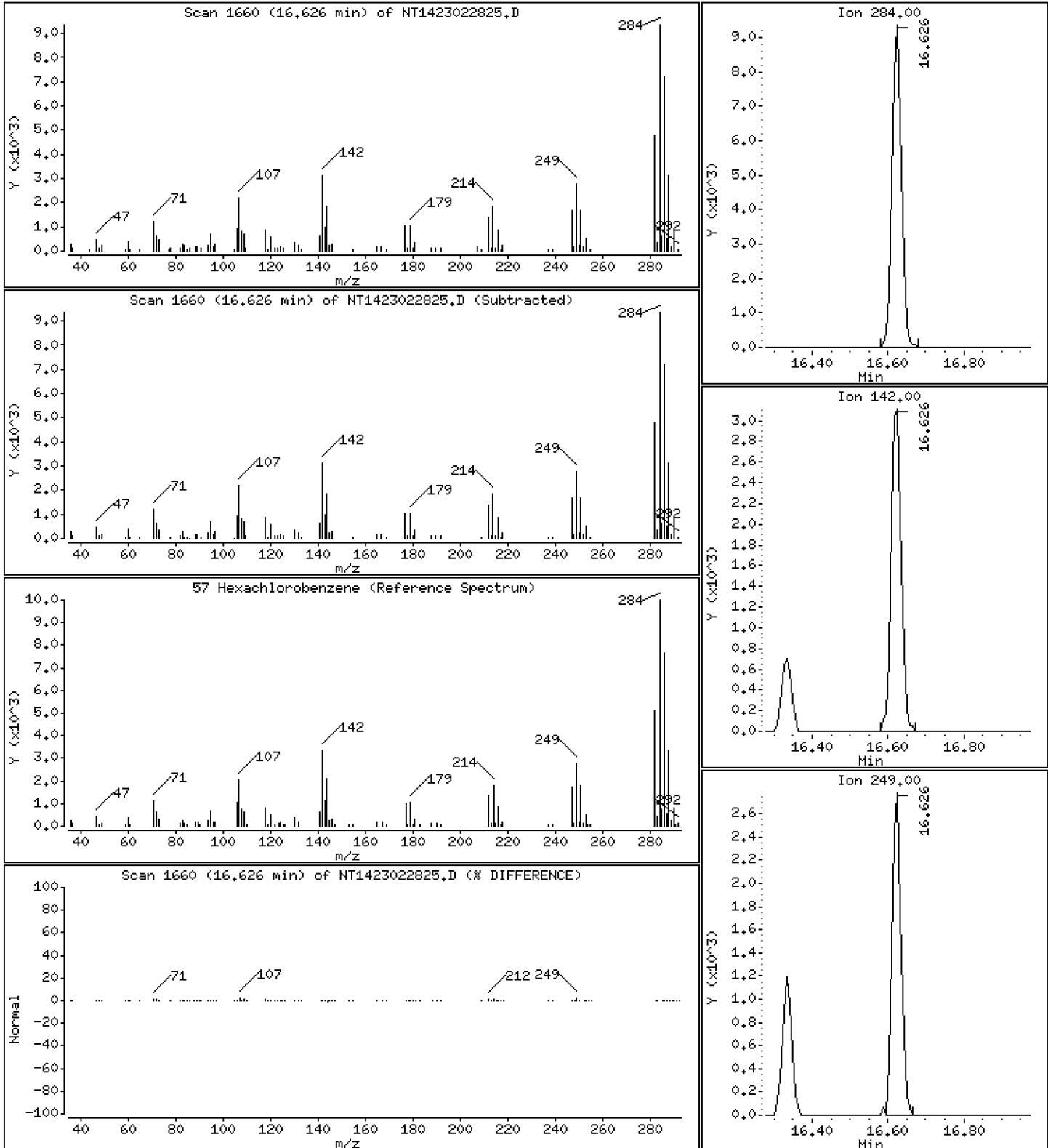
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 0.5198 ug/mL





Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

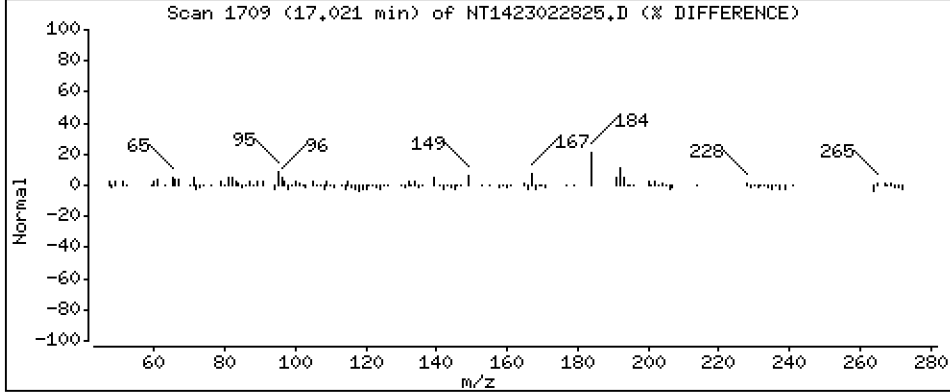
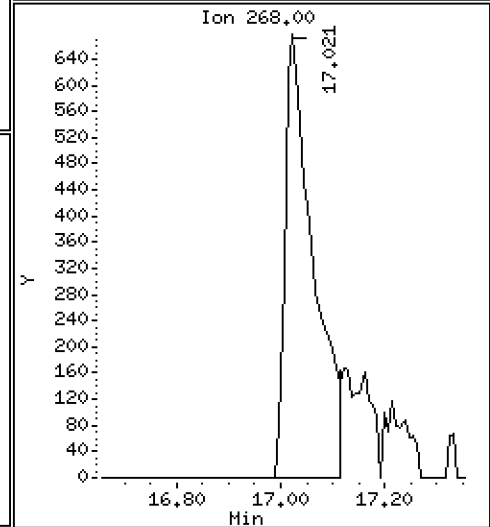
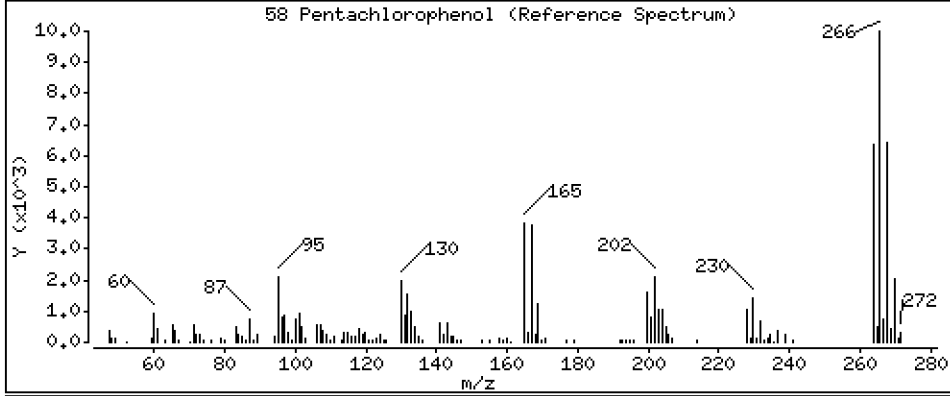
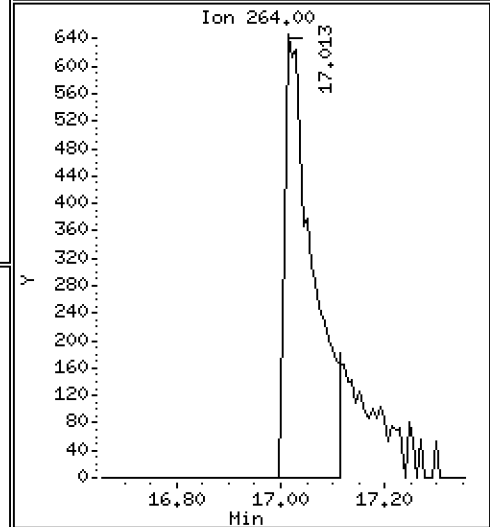
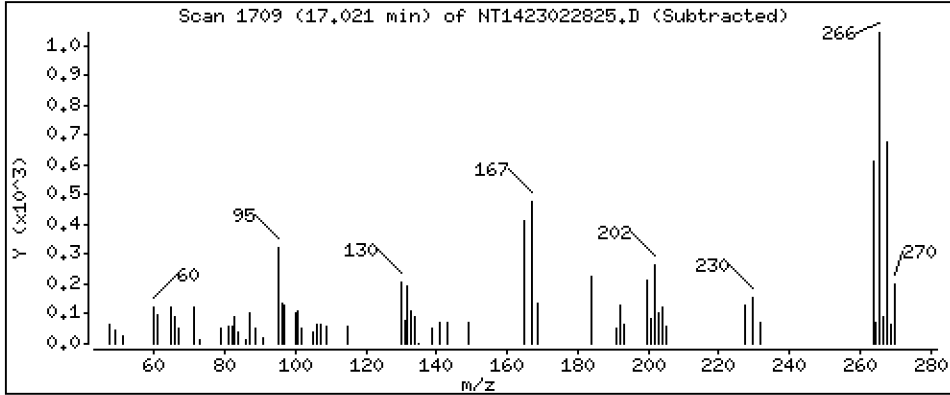
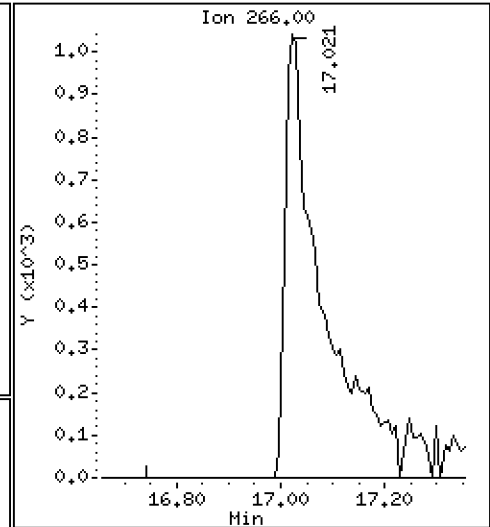
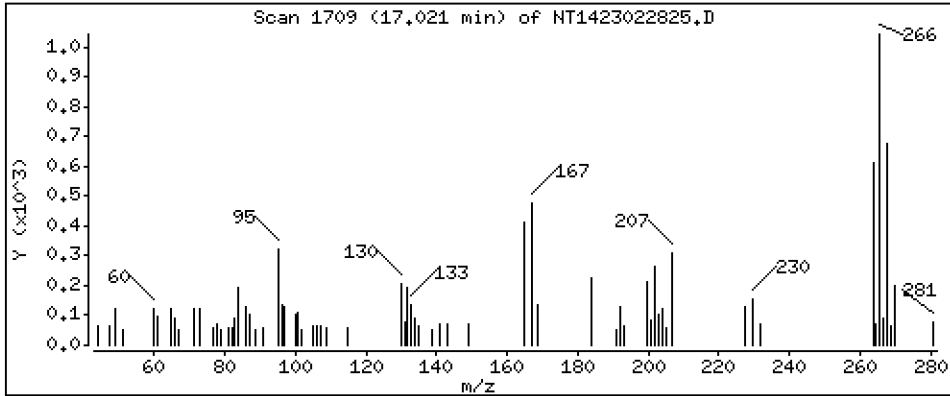
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,4279 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

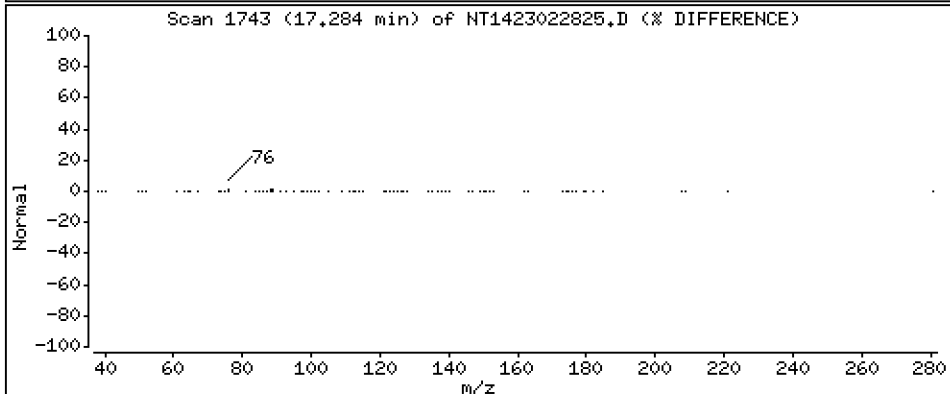
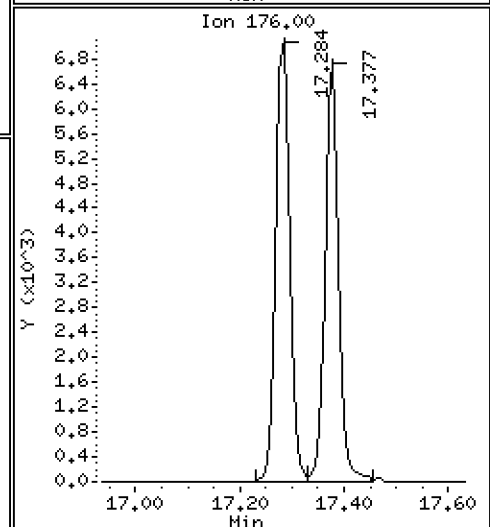
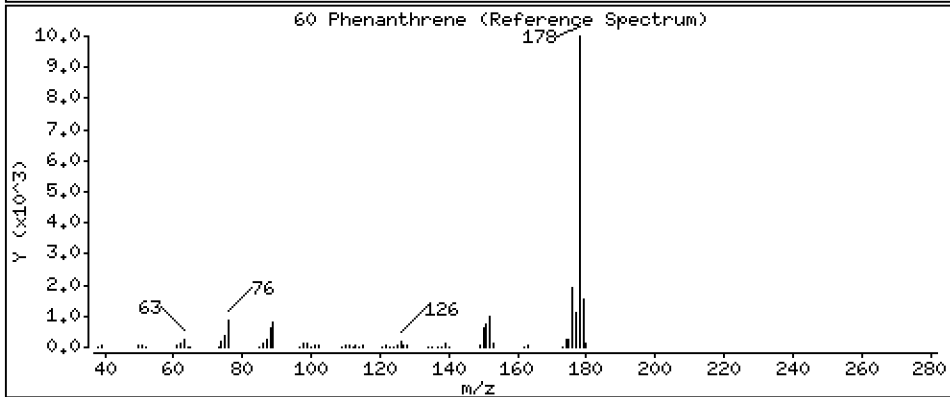
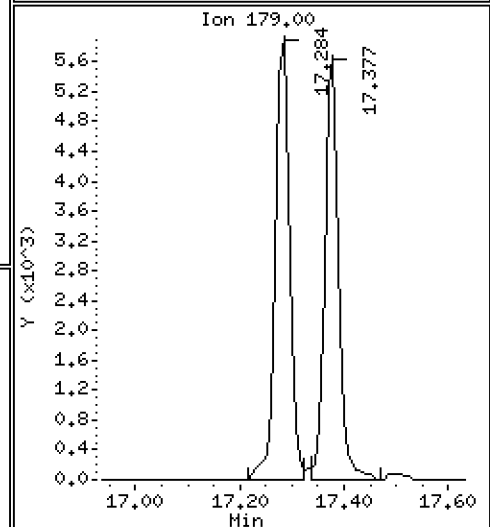
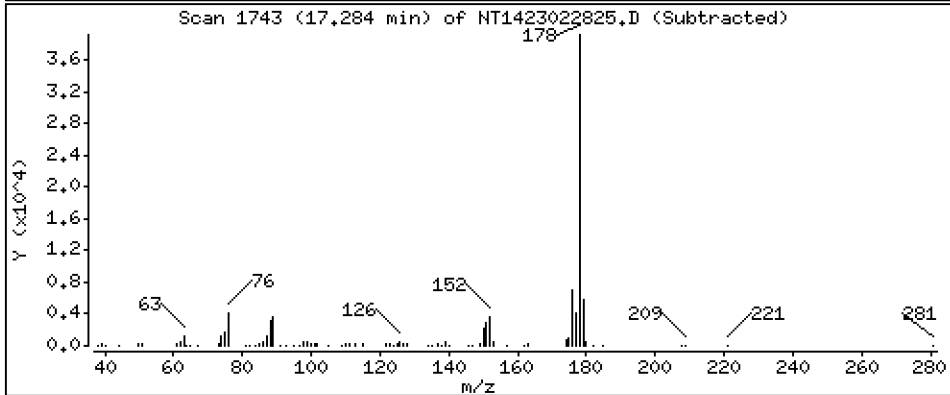
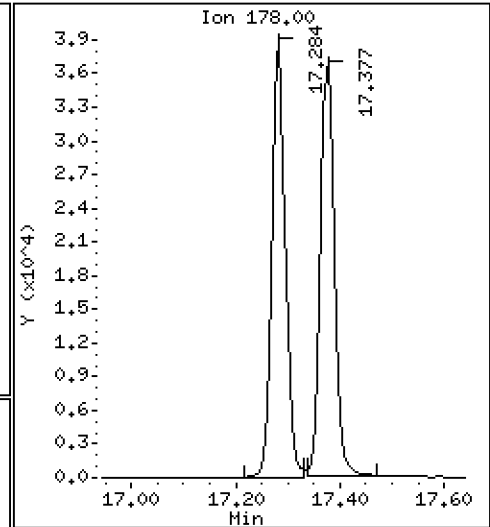
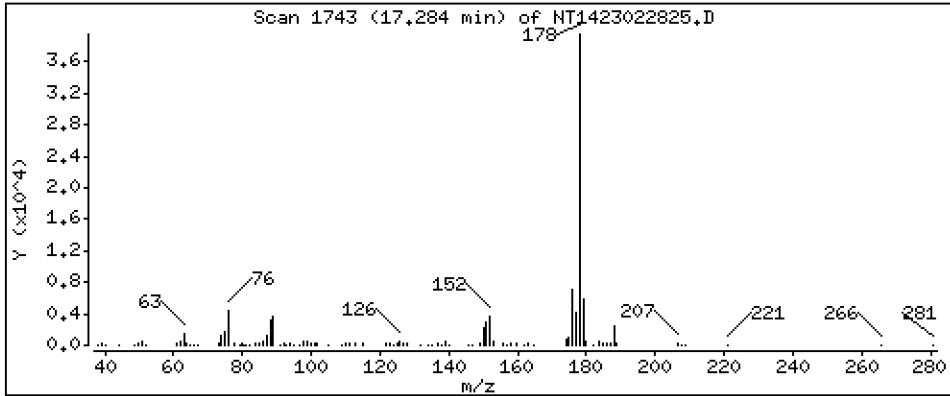
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,5125 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

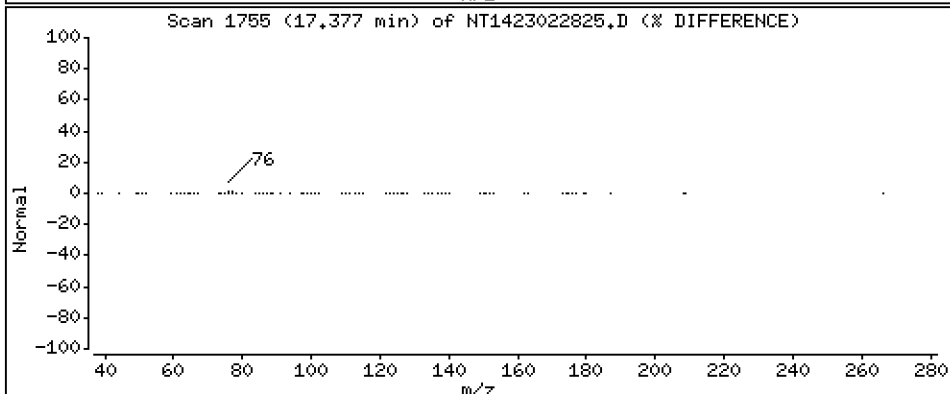
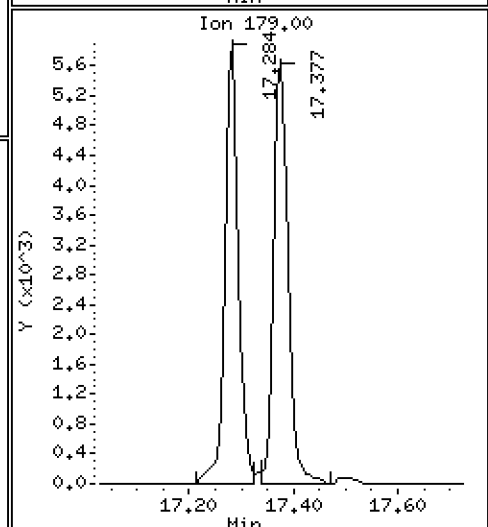
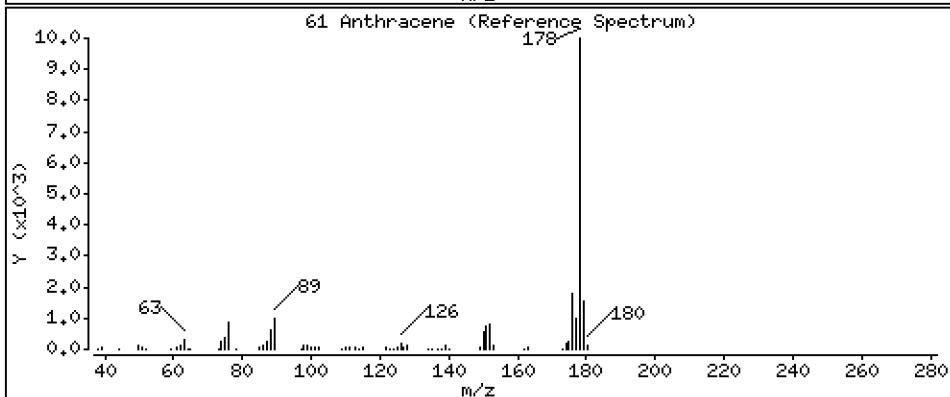
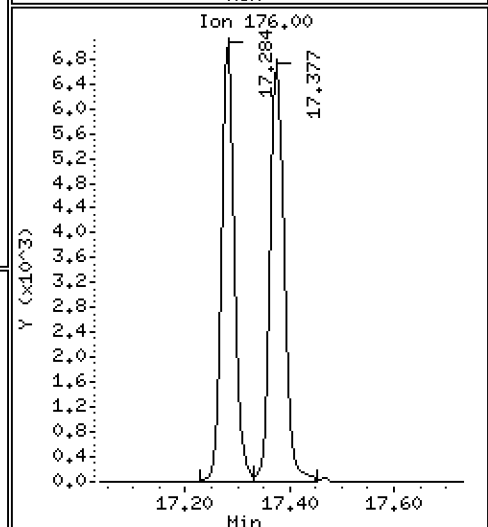
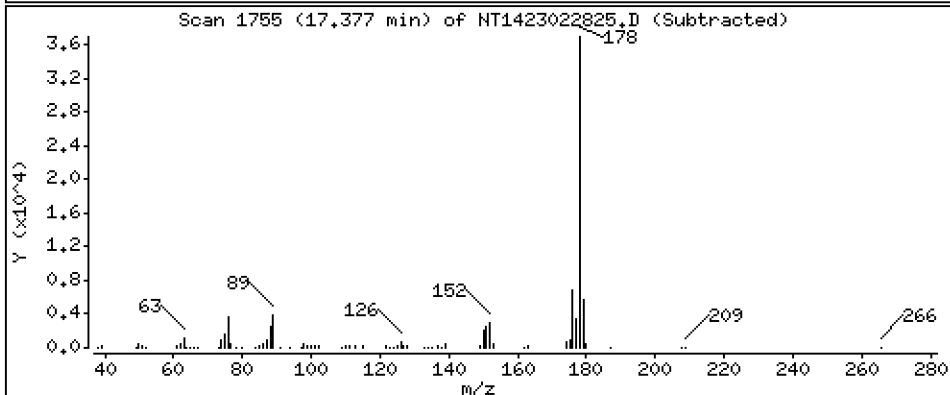
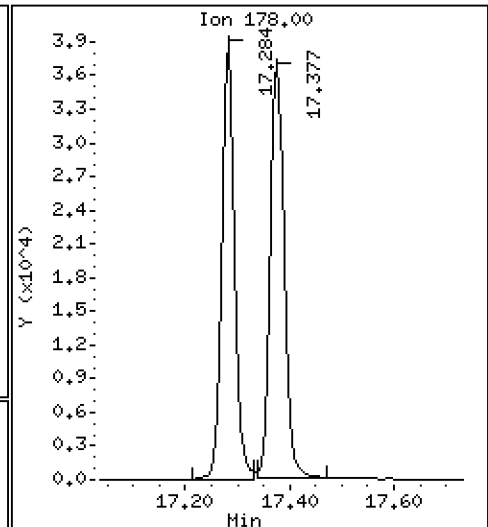
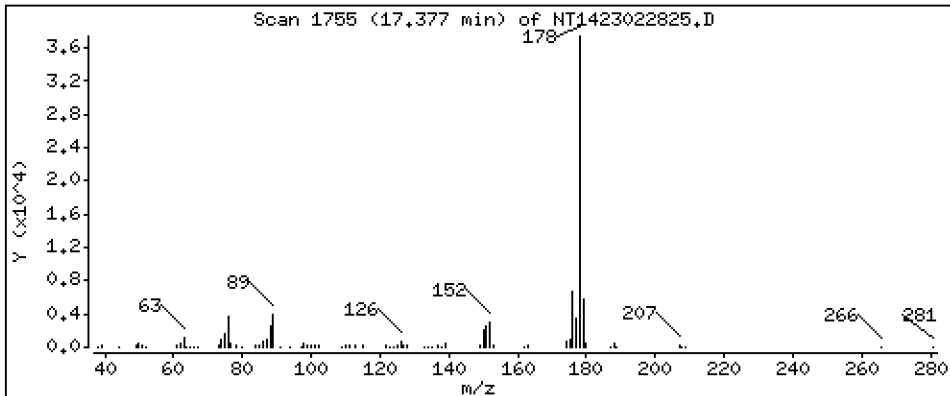
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,5189 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

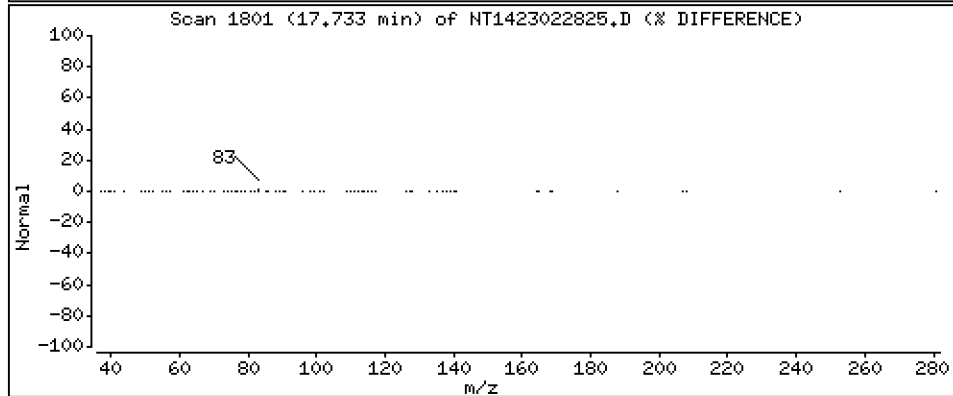
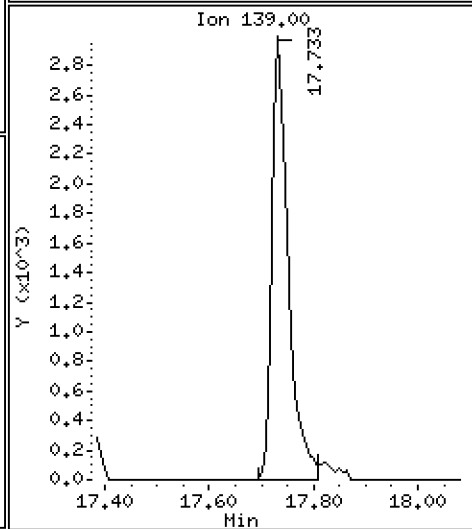
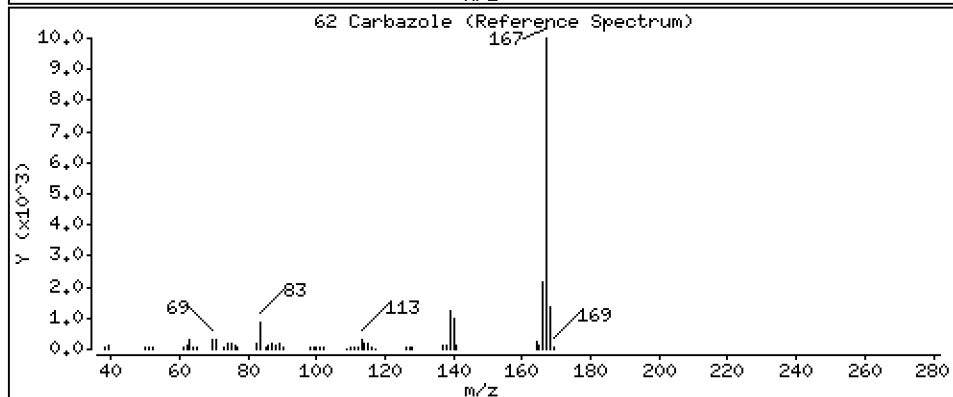
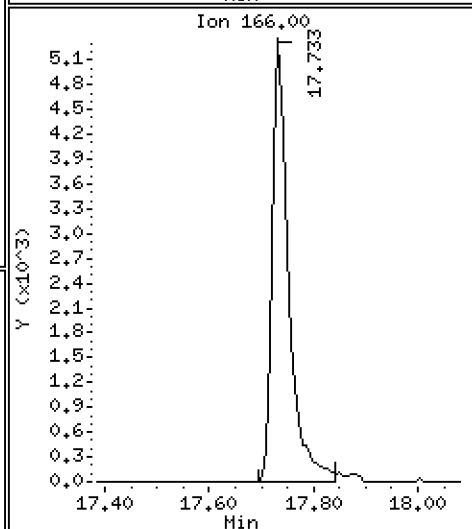
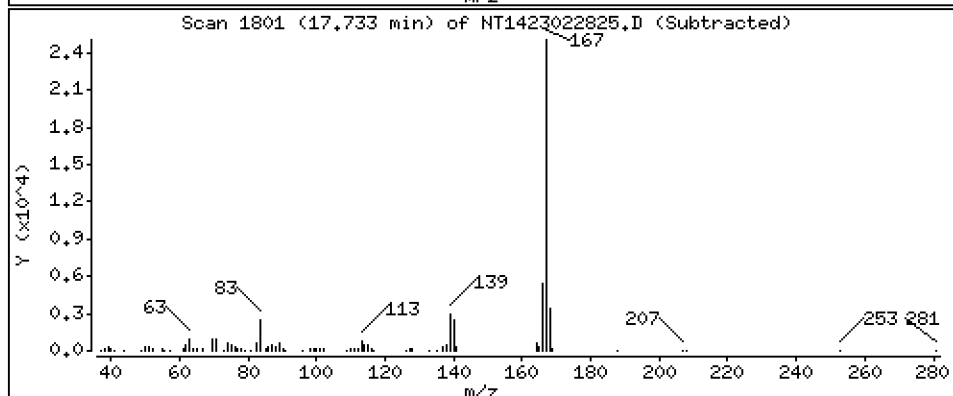
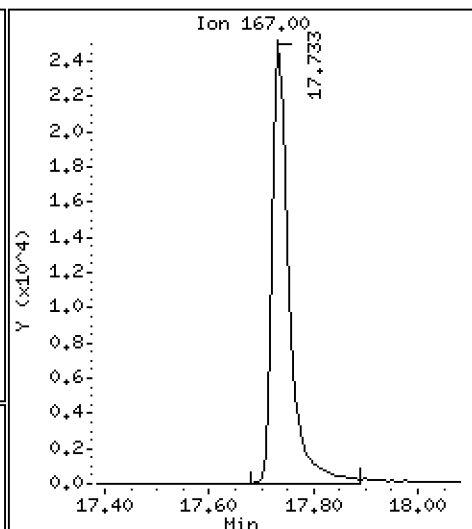
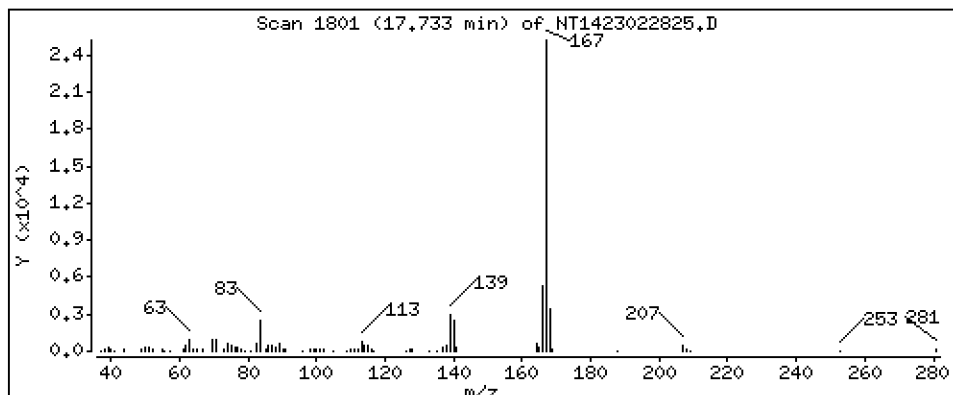
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,4950 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

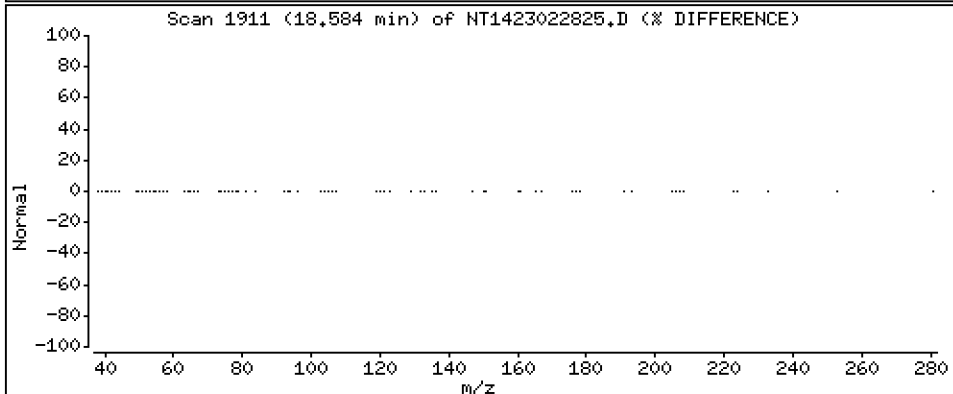
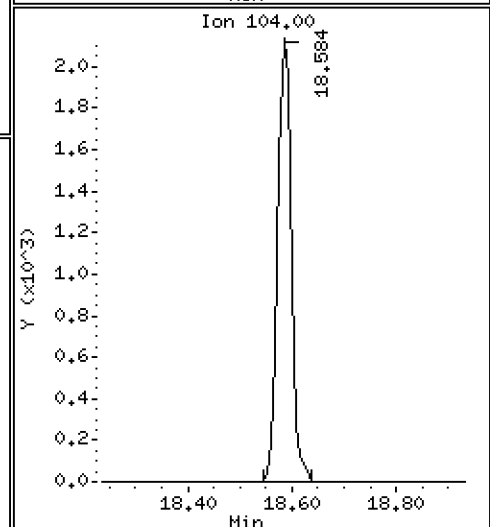
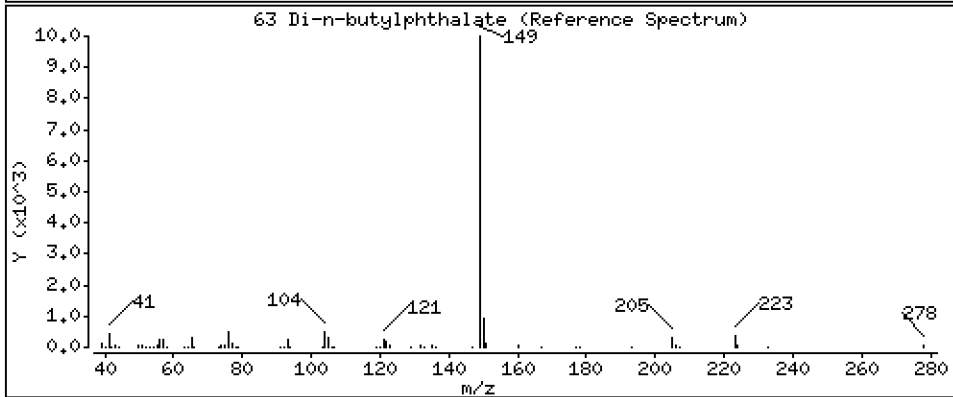
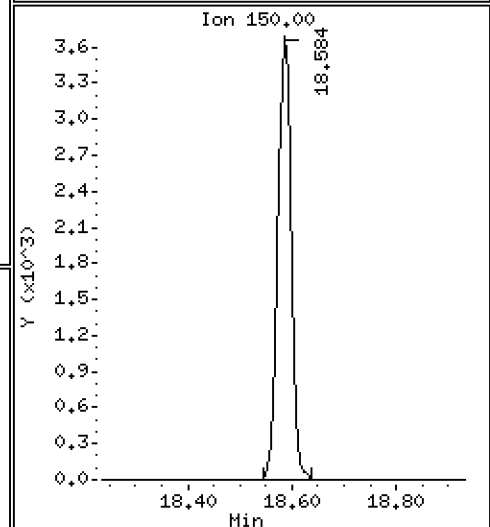
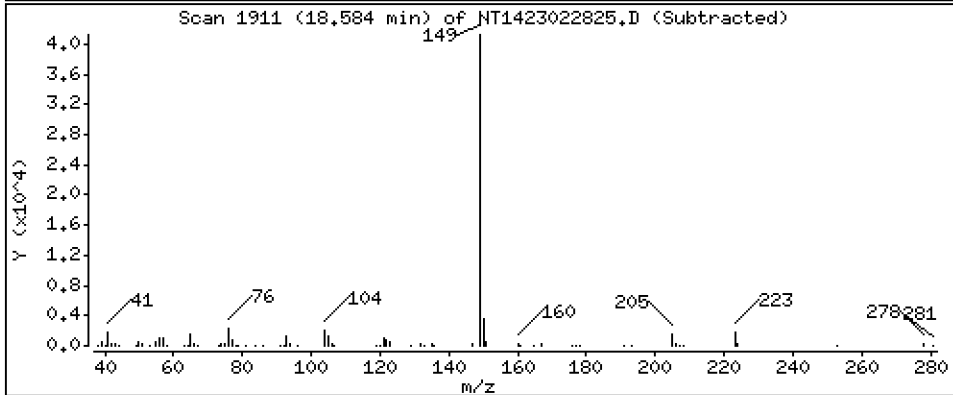
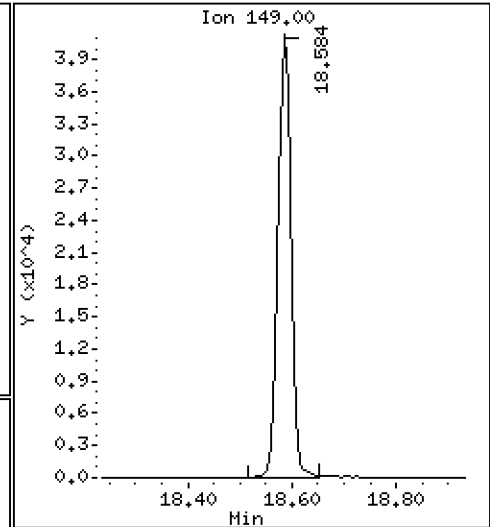
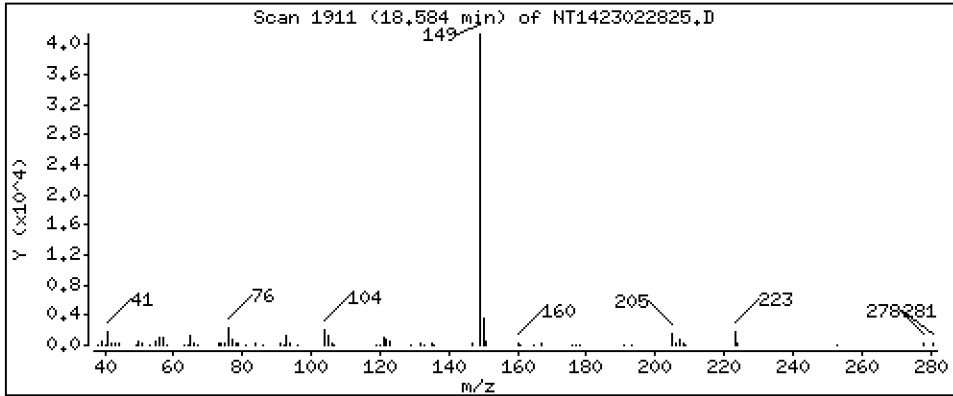
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,4784 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

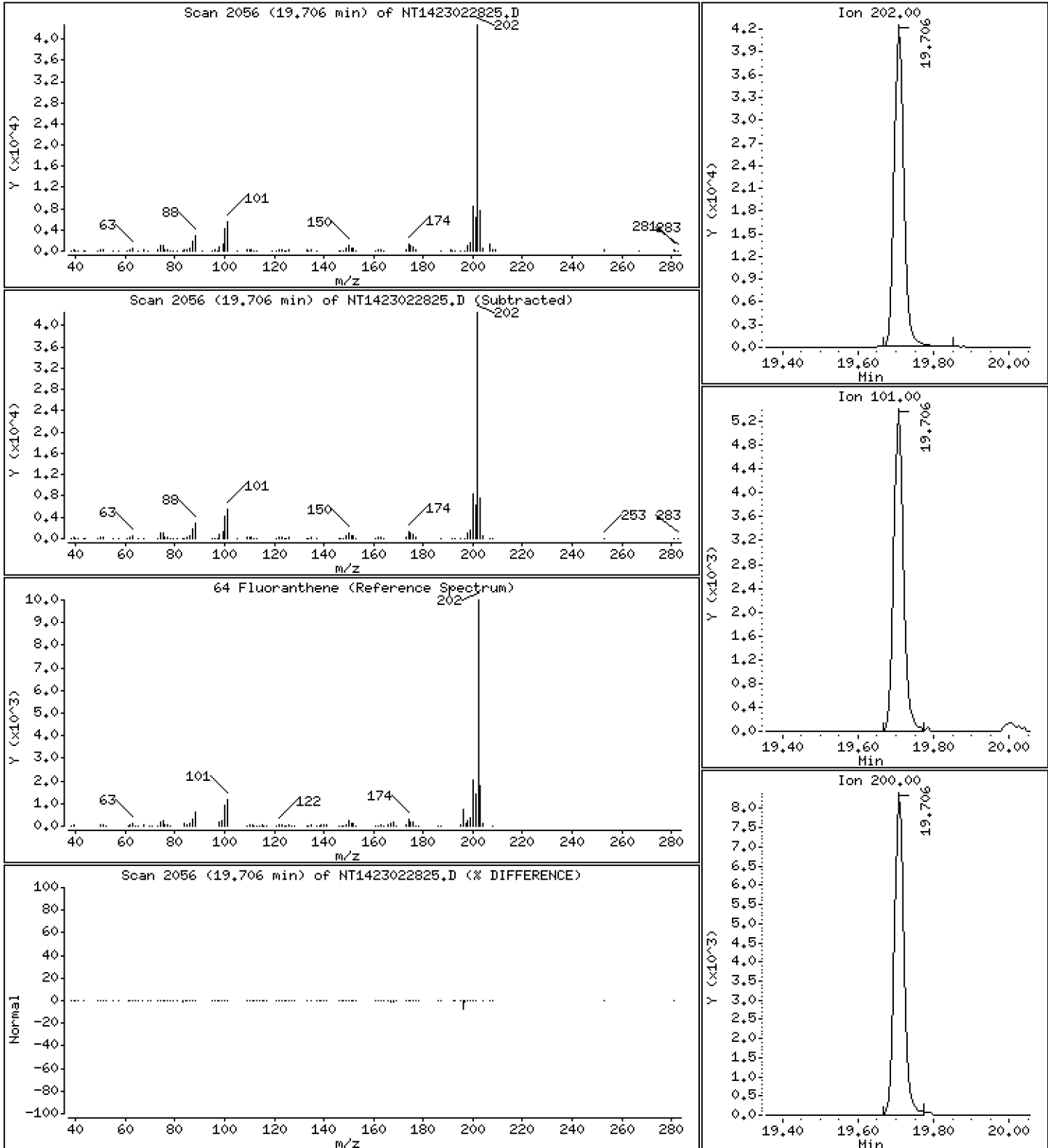
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,5129 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

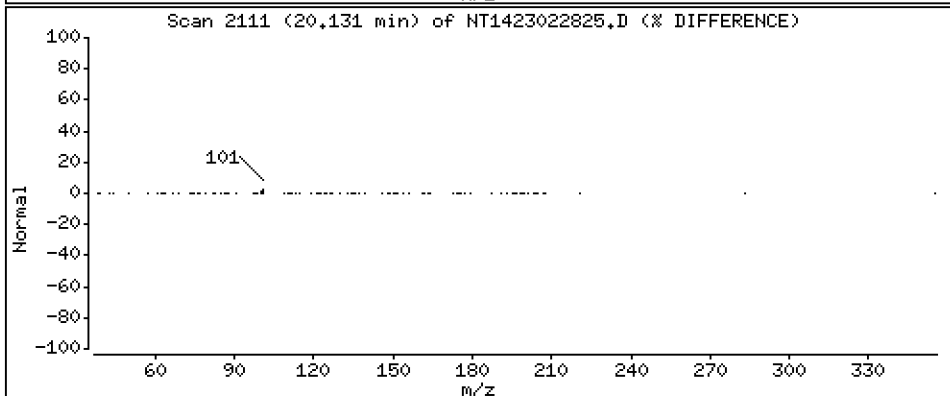
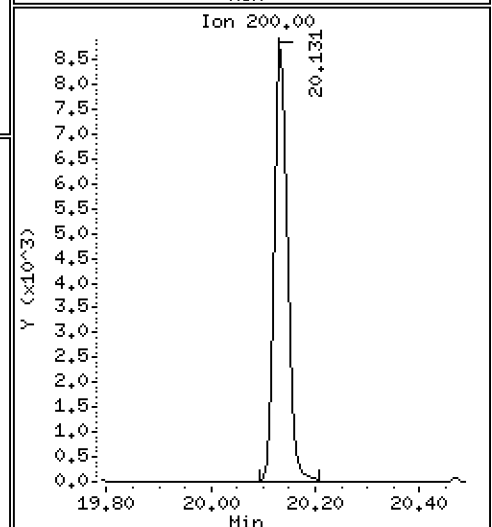
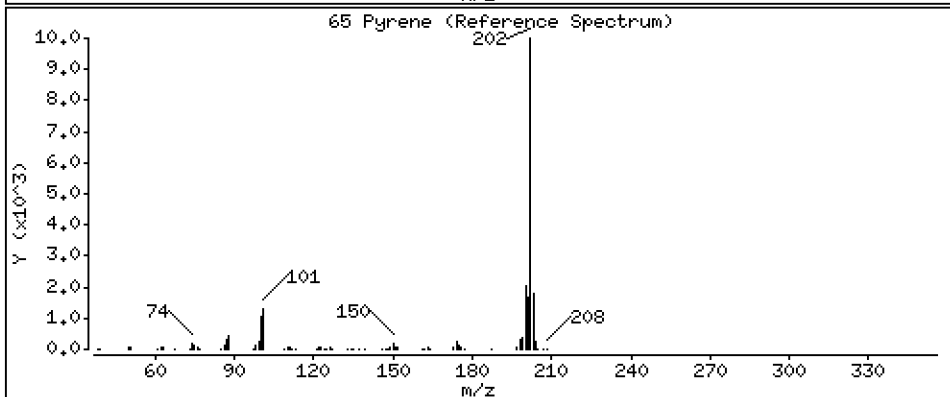
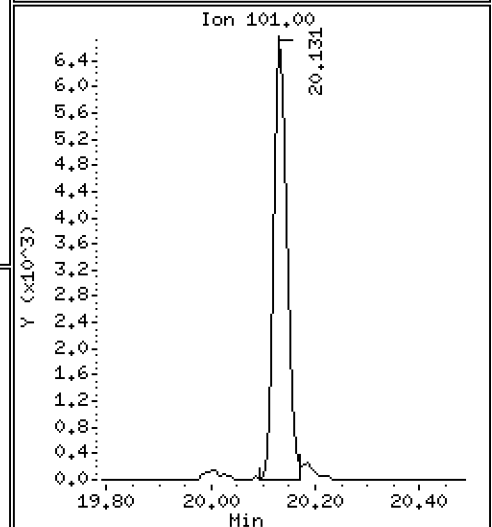
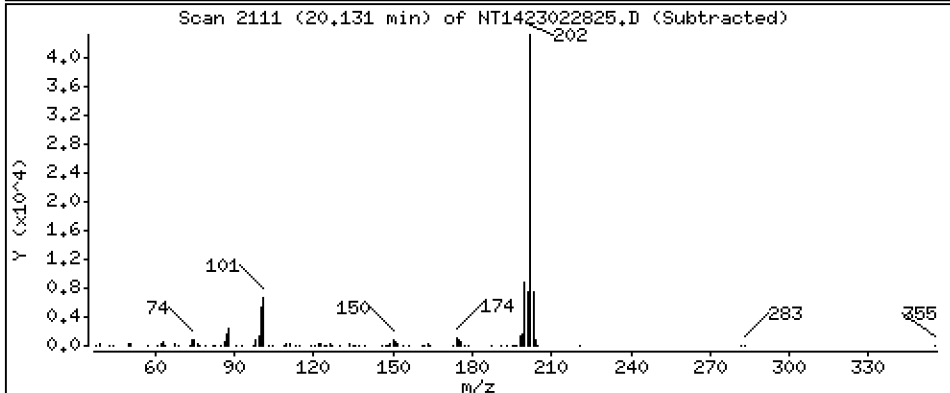
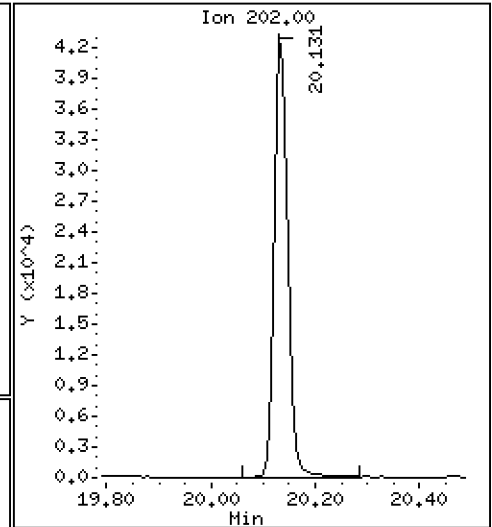
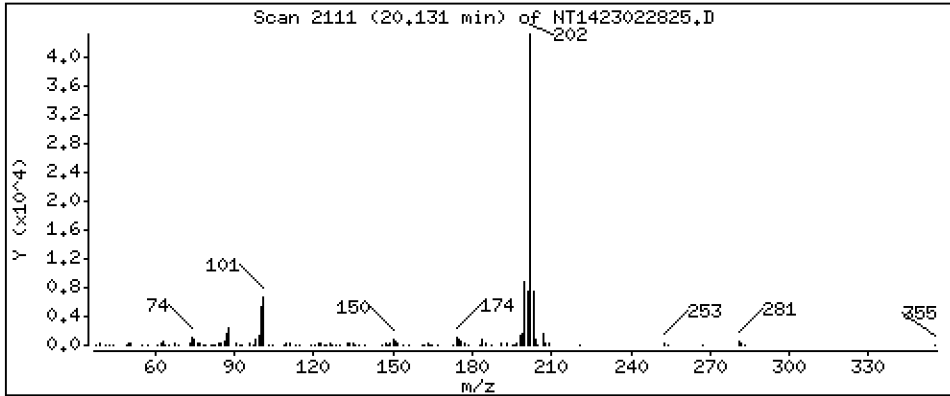
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,5119 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

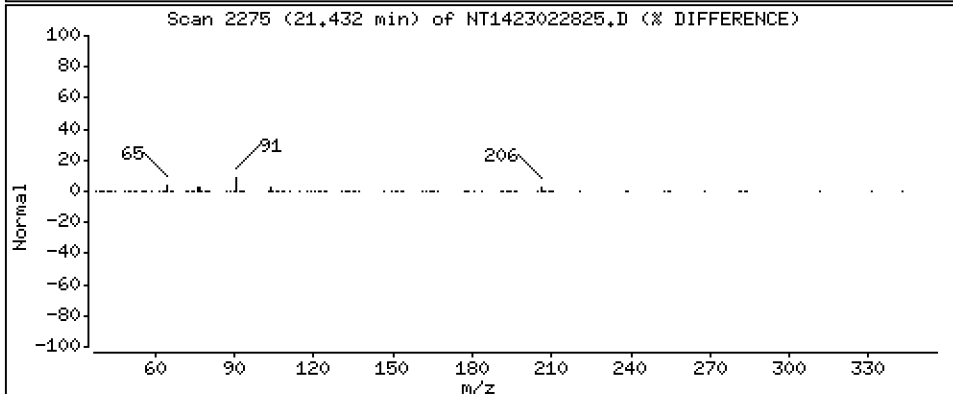
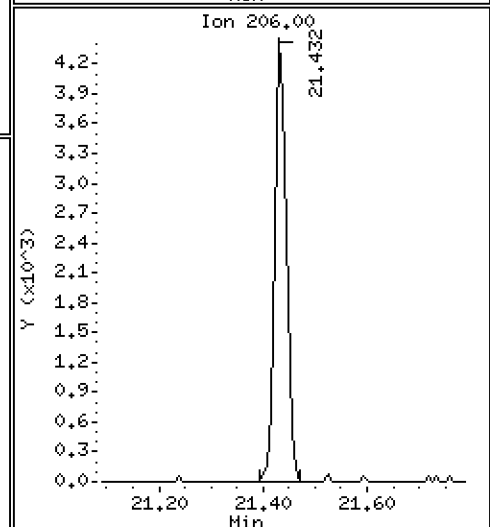
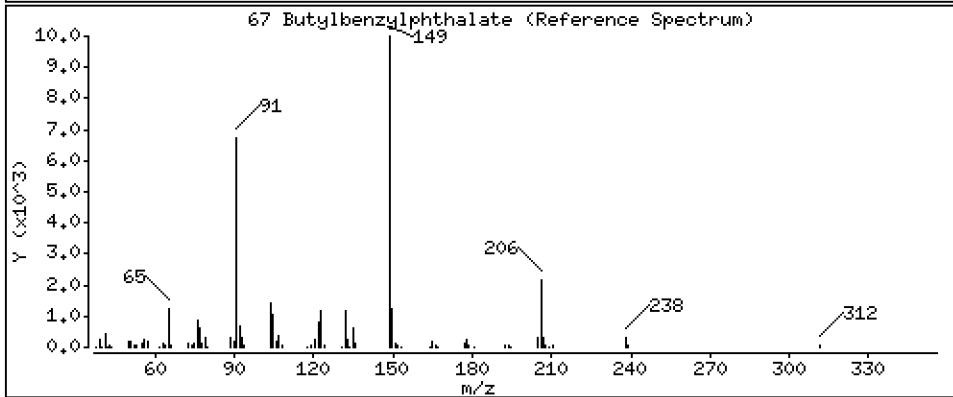
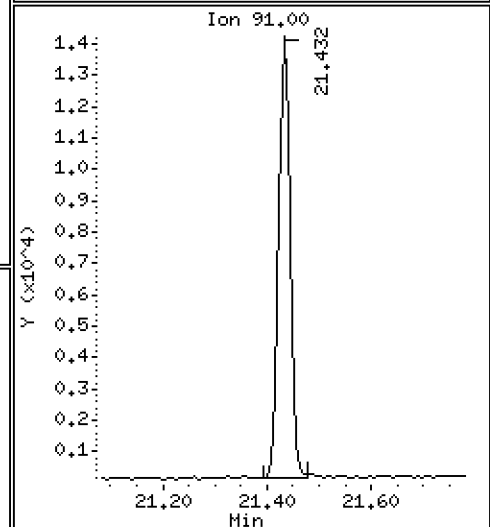
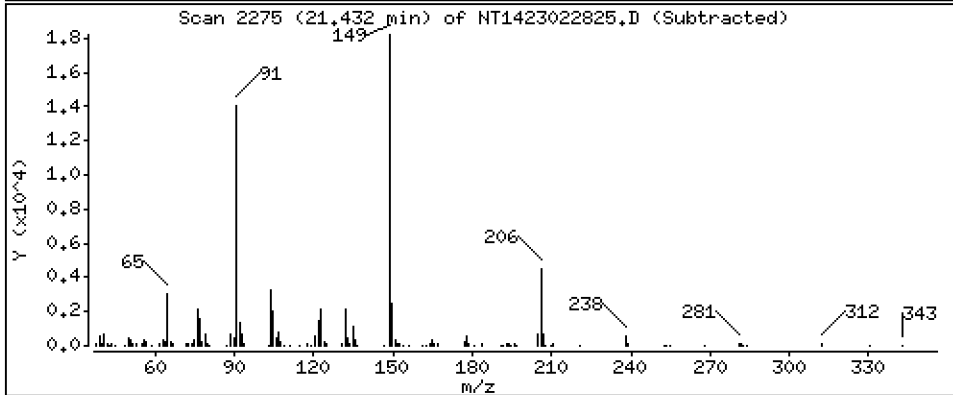
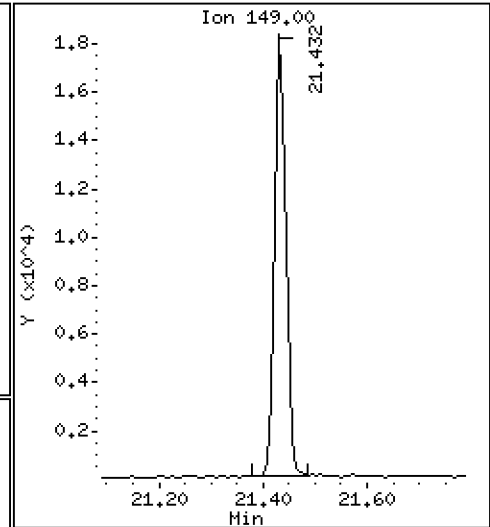
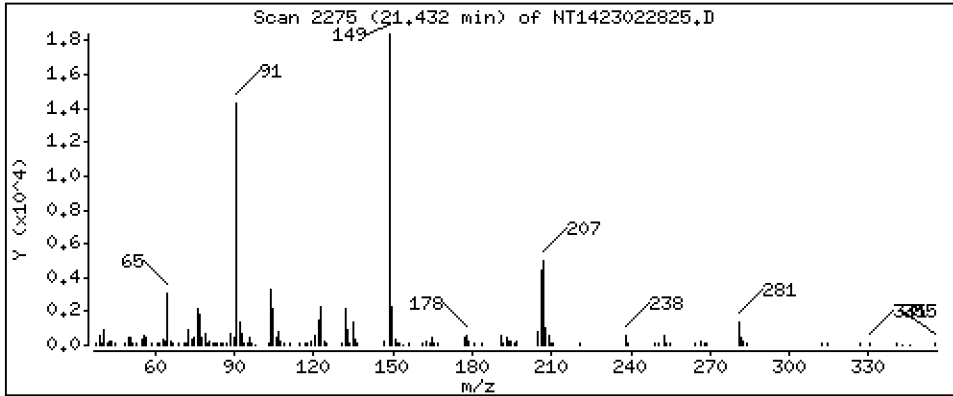
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,5119 ug/mL





Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

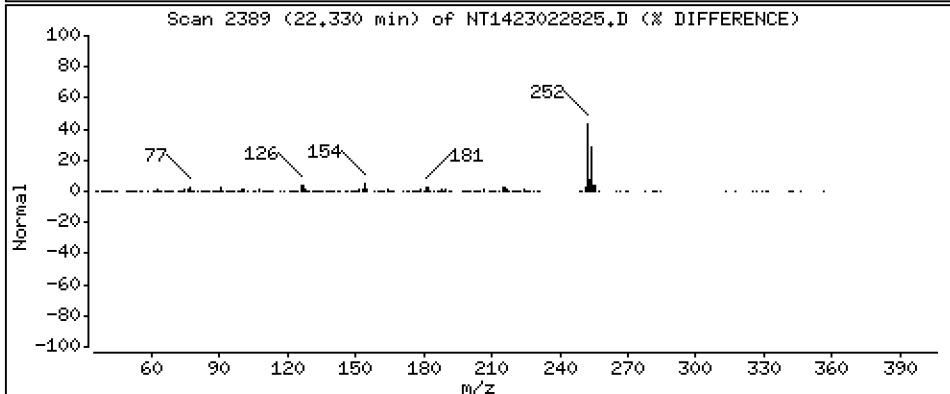
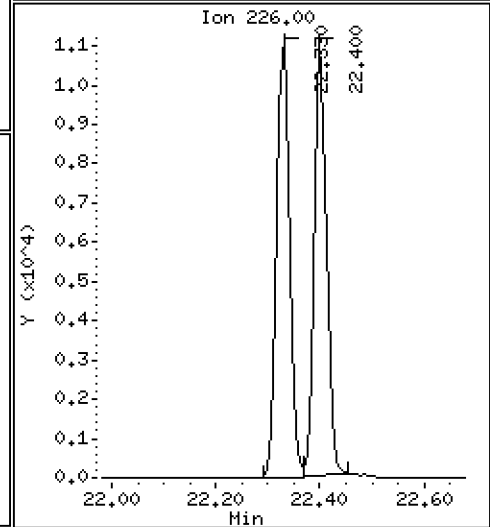
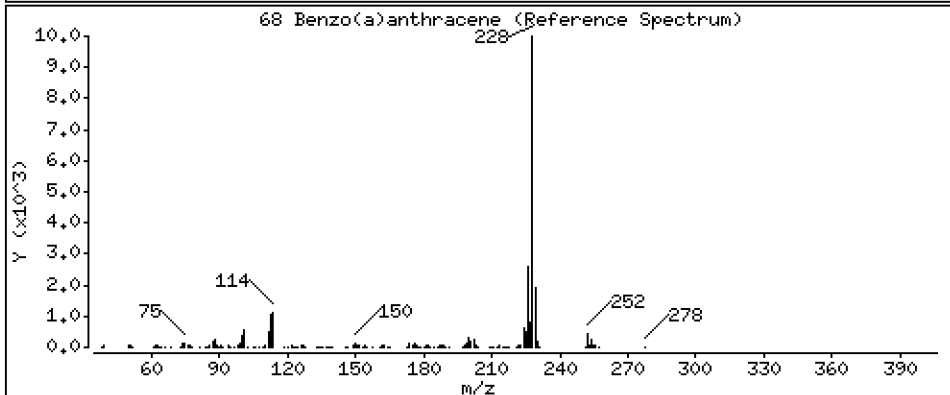
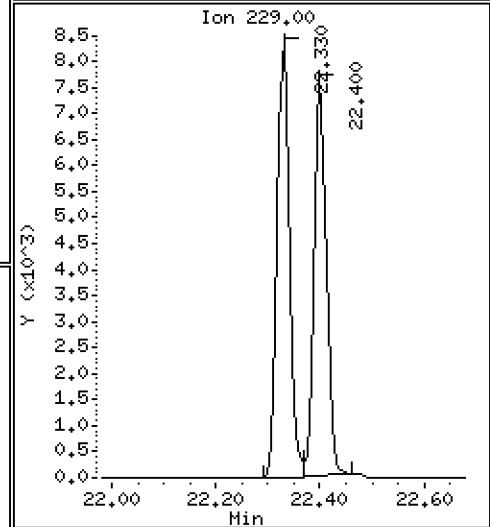
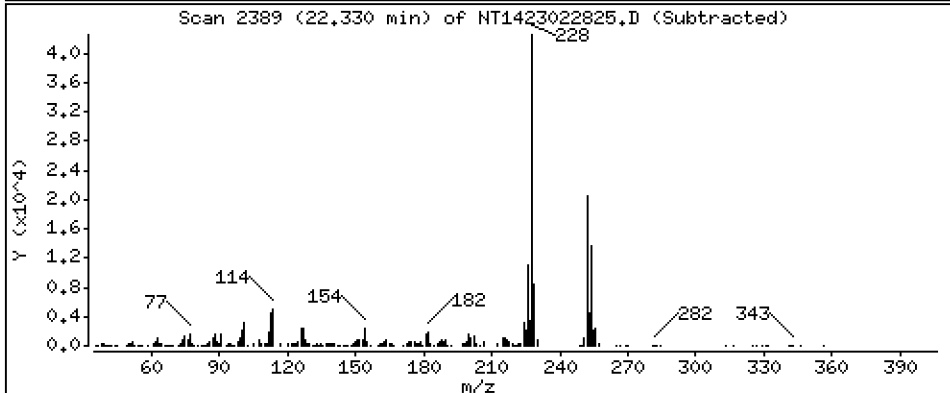
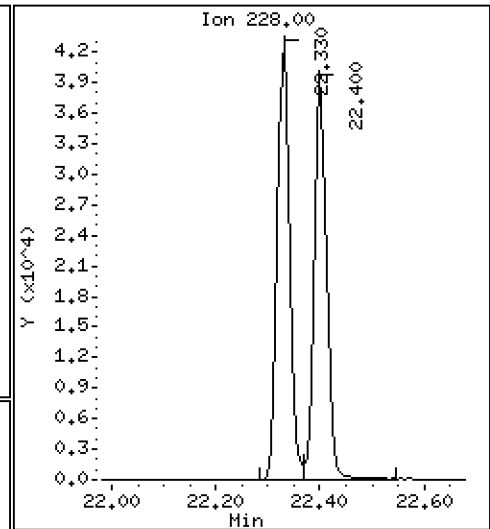
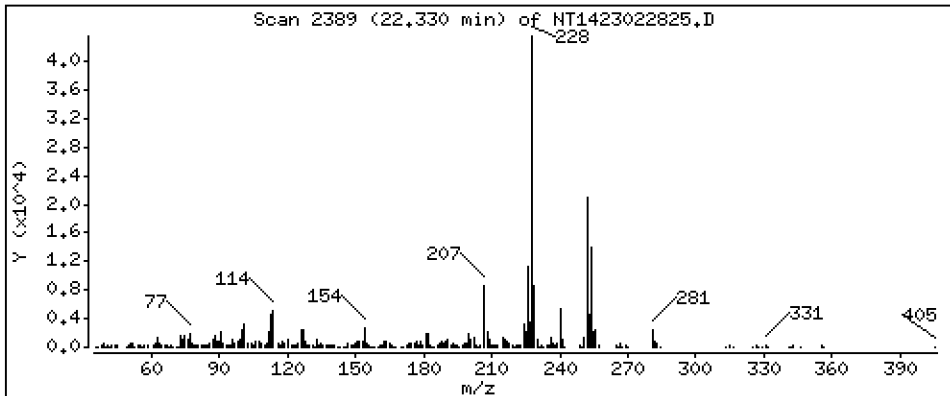
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,5453 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

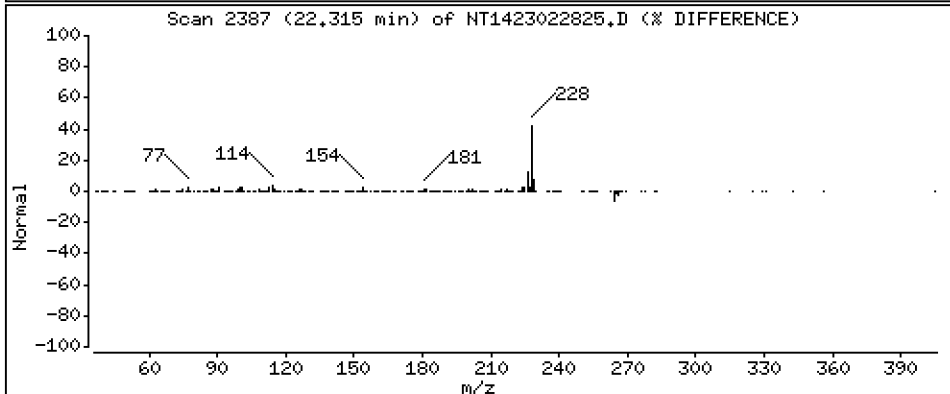
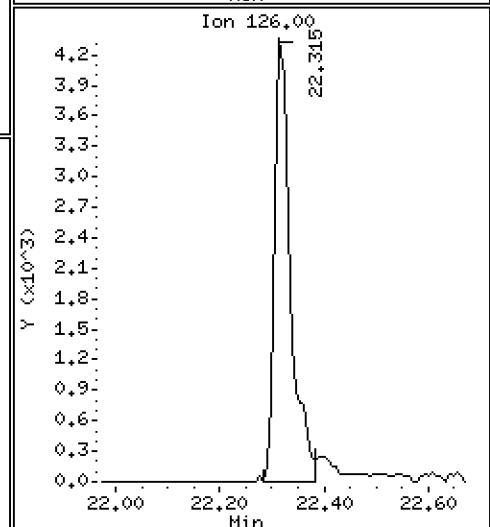
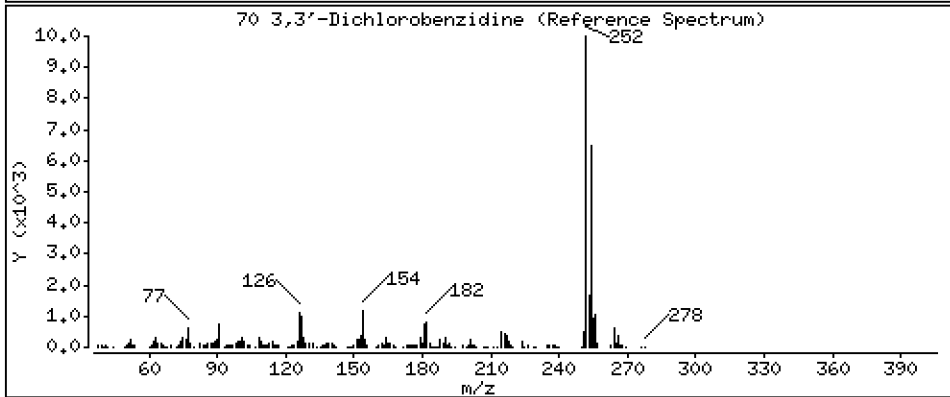
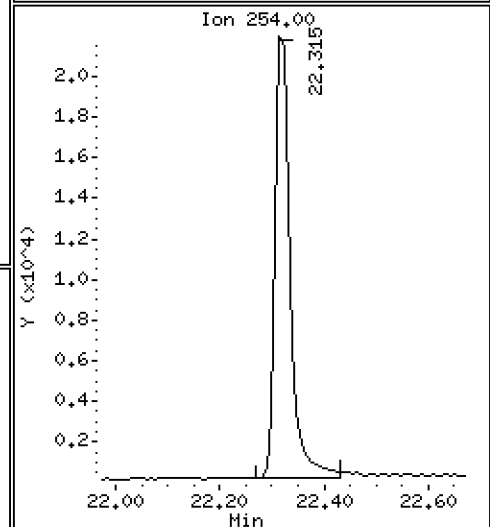
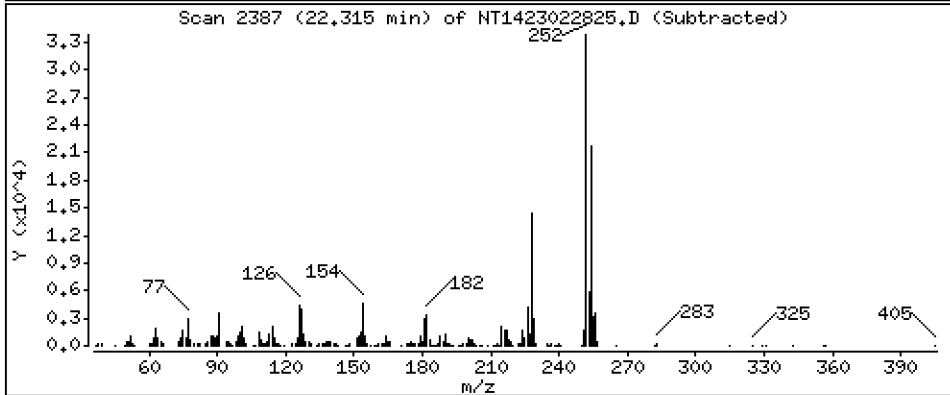
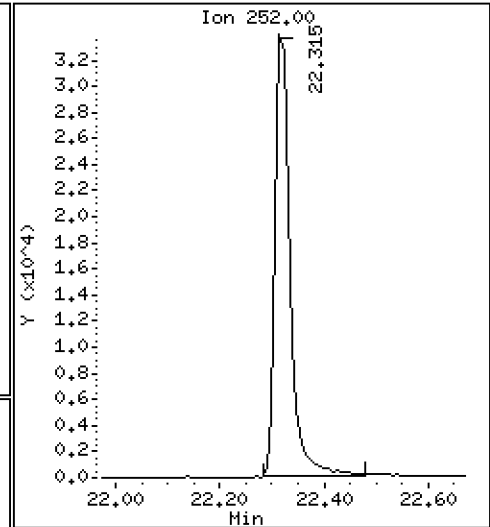
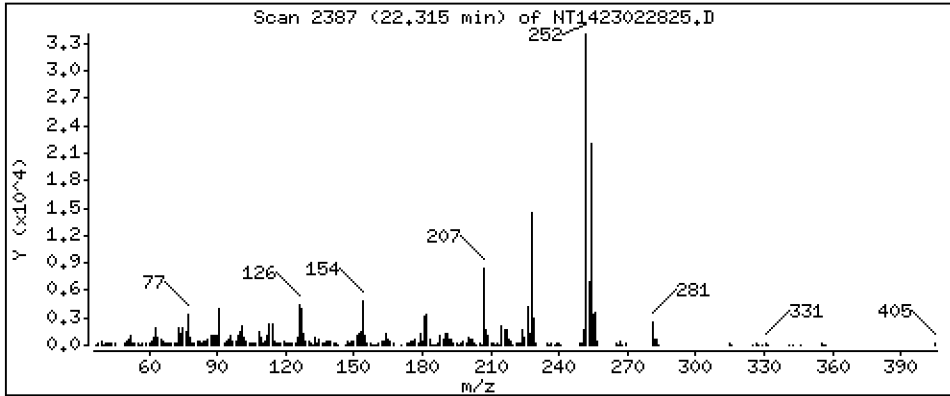
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 1,854 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

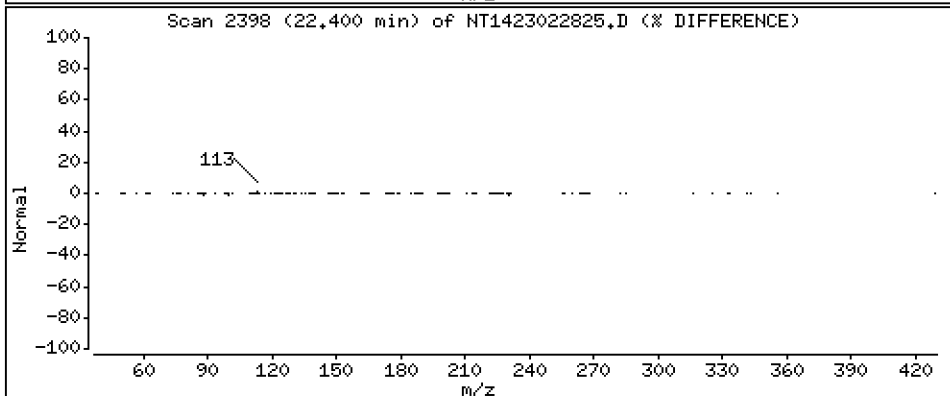
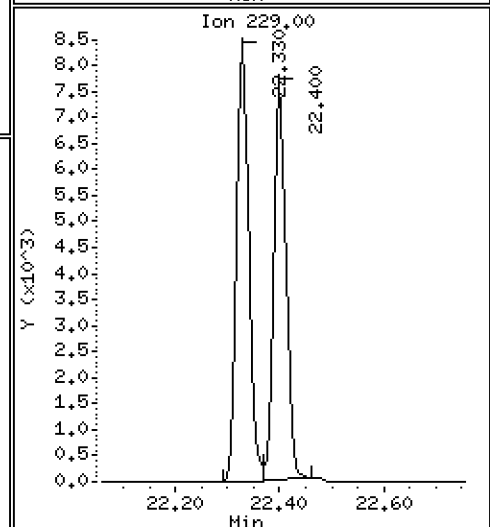
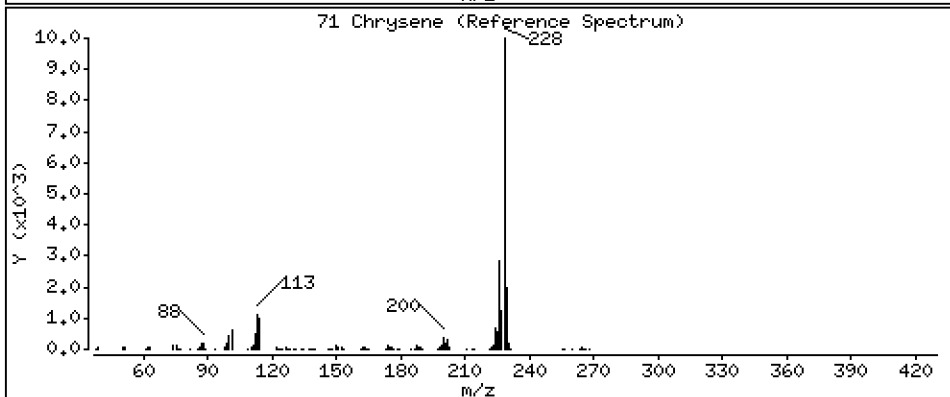
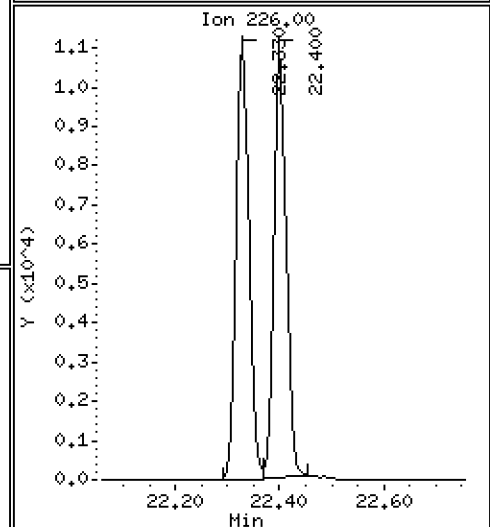
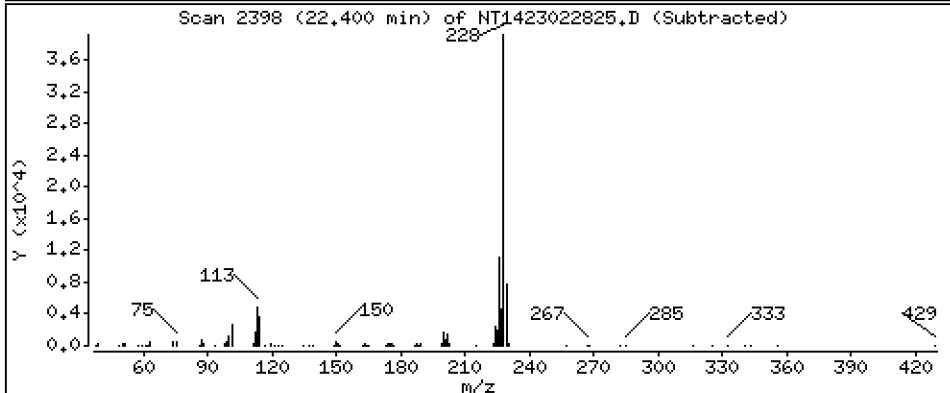
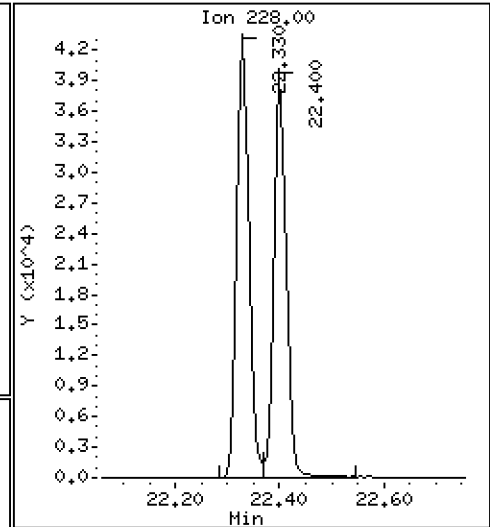
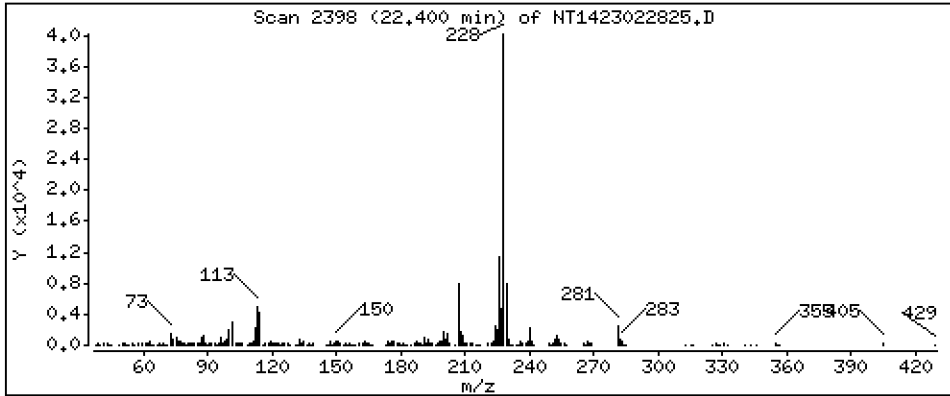
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,5326 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

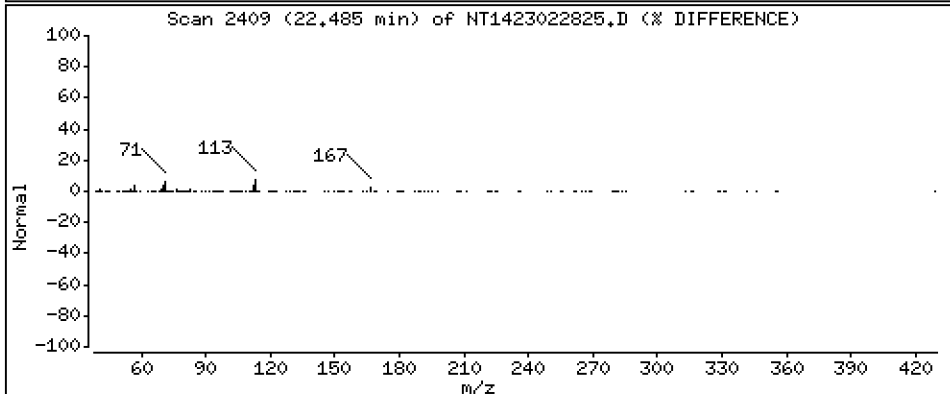
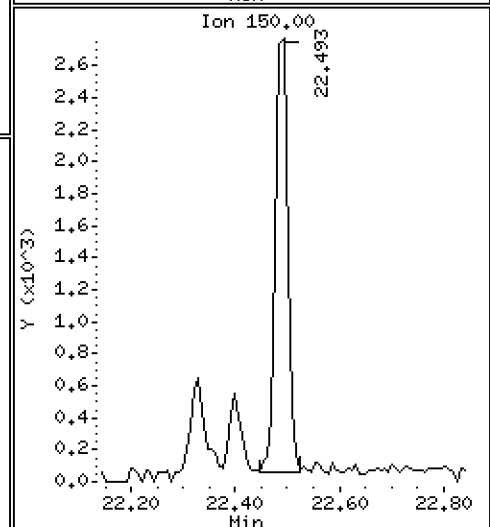
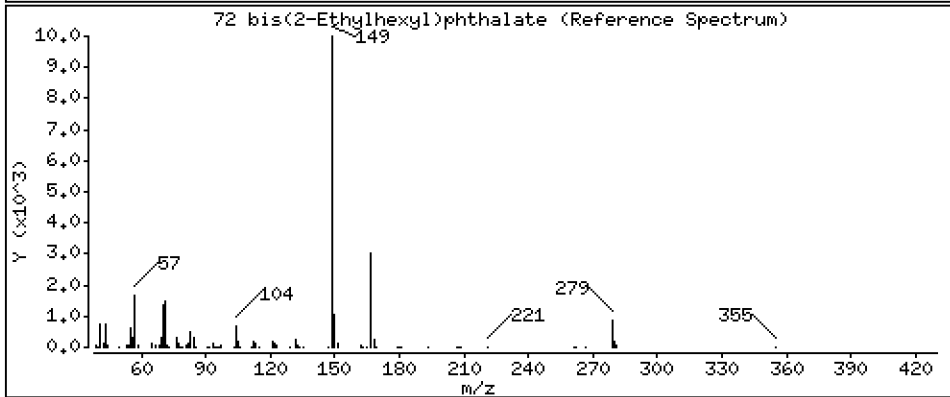
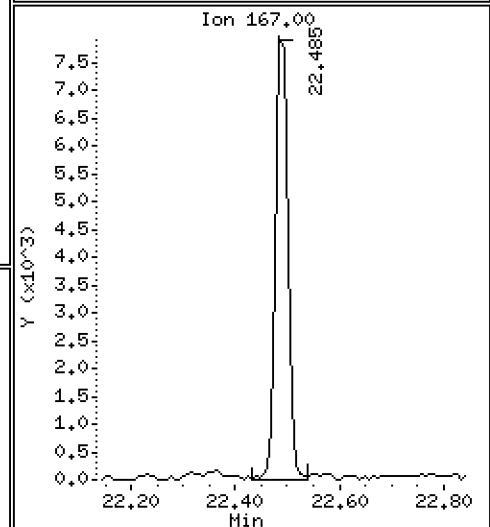
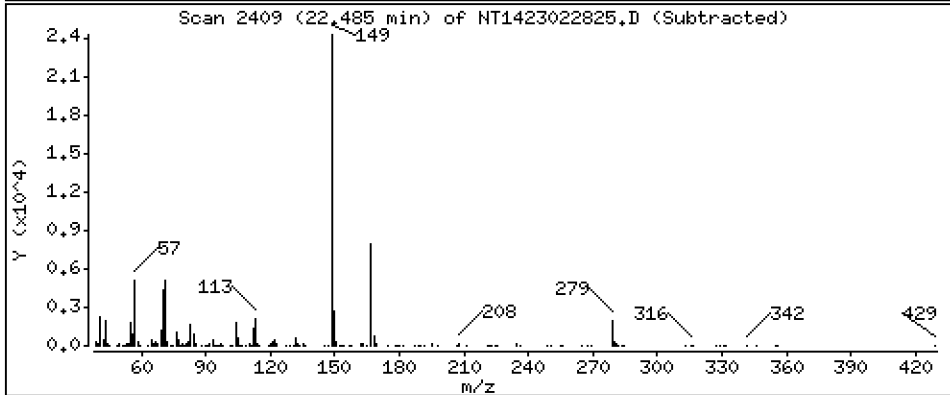
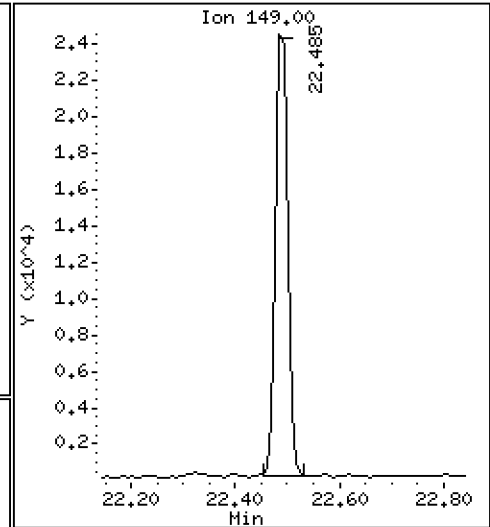
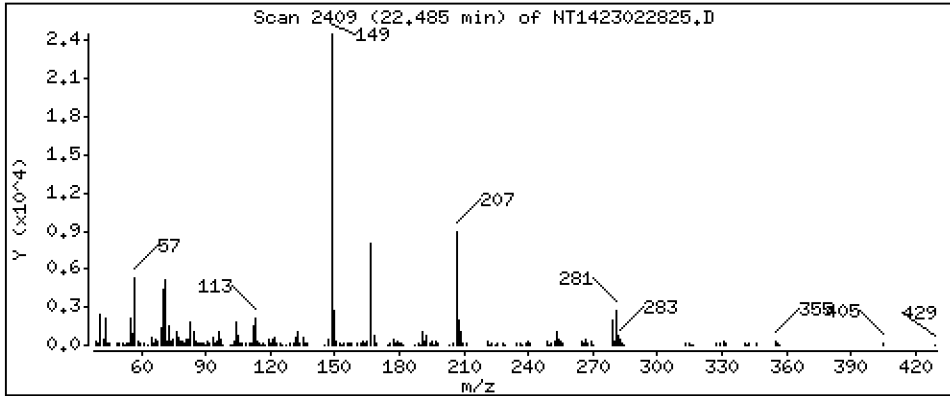
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,4540 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

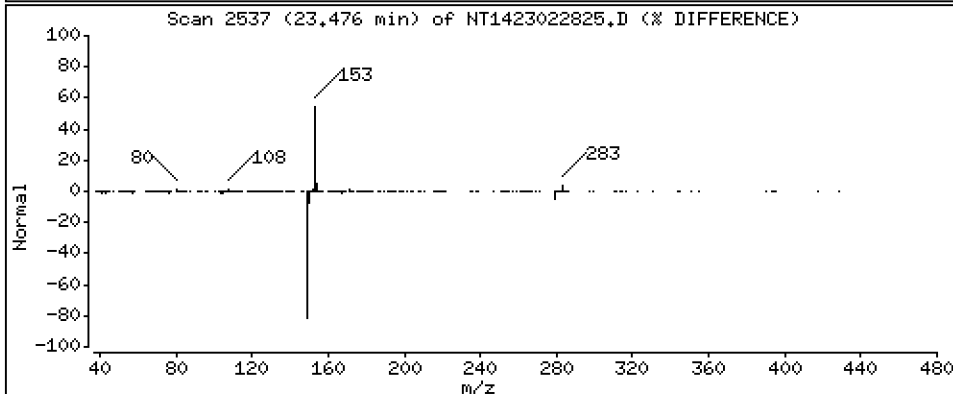
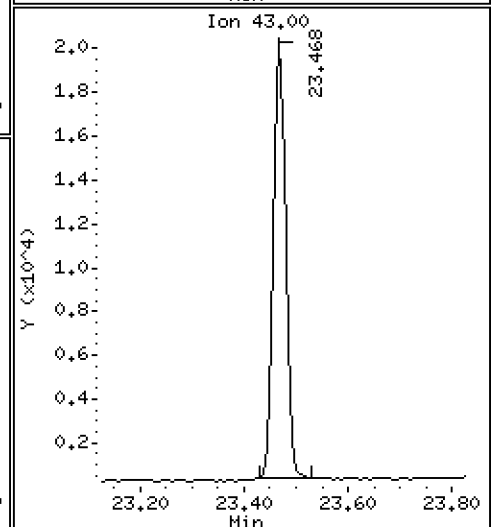
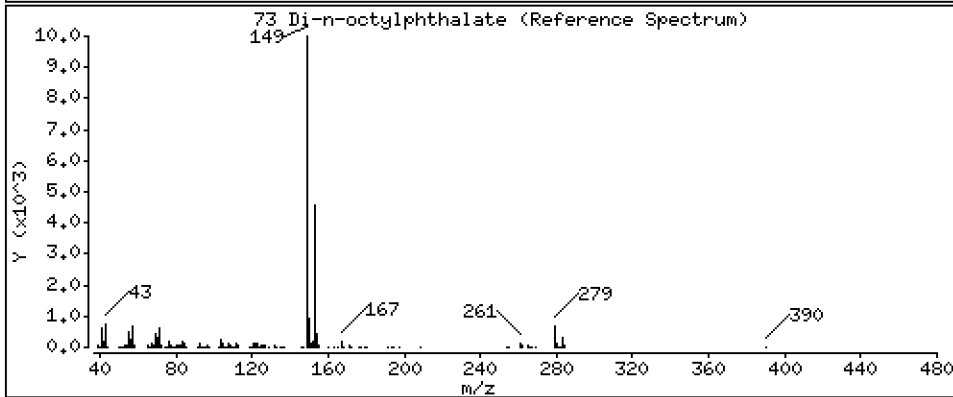
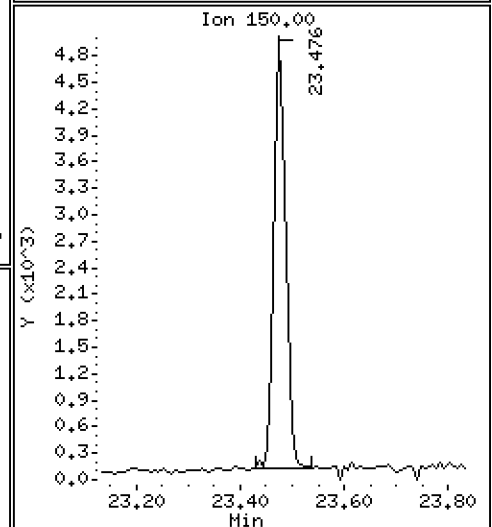
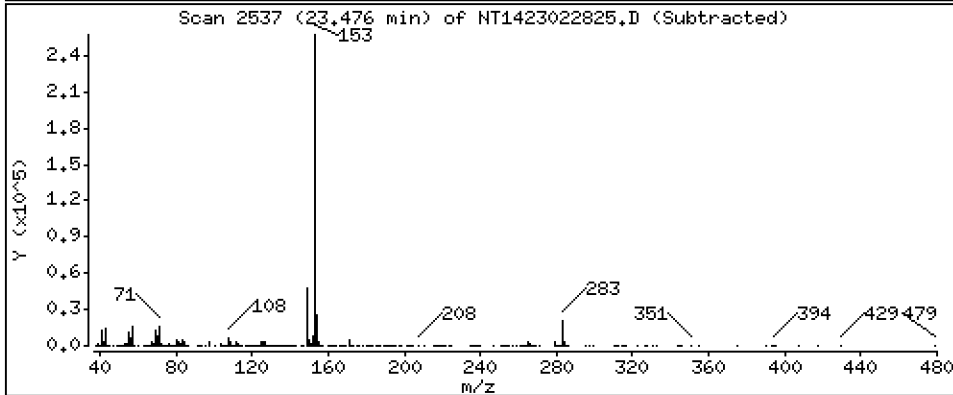
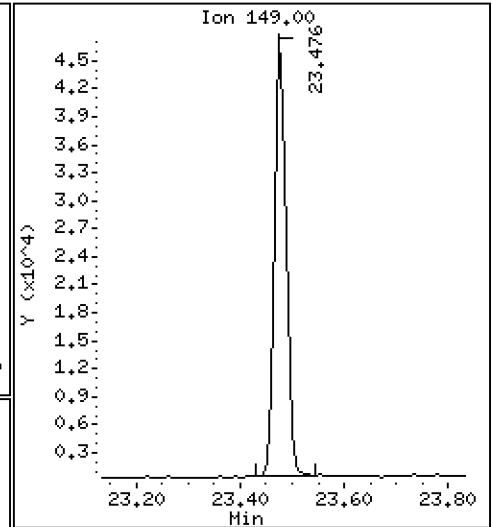
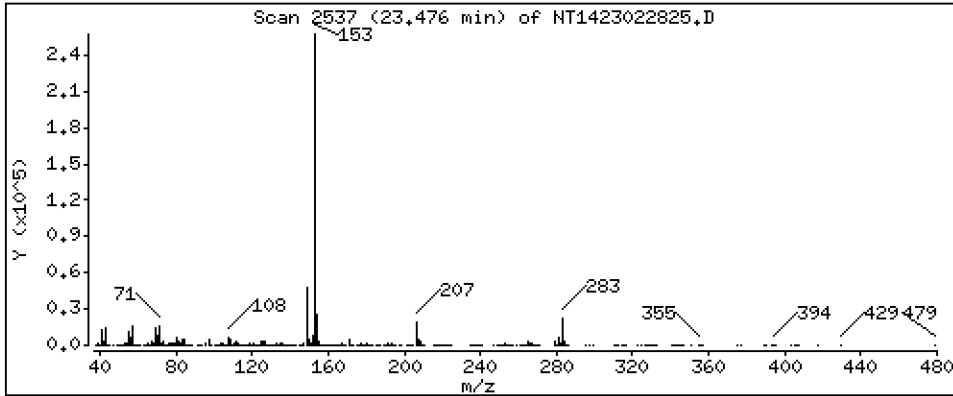
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,5004 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

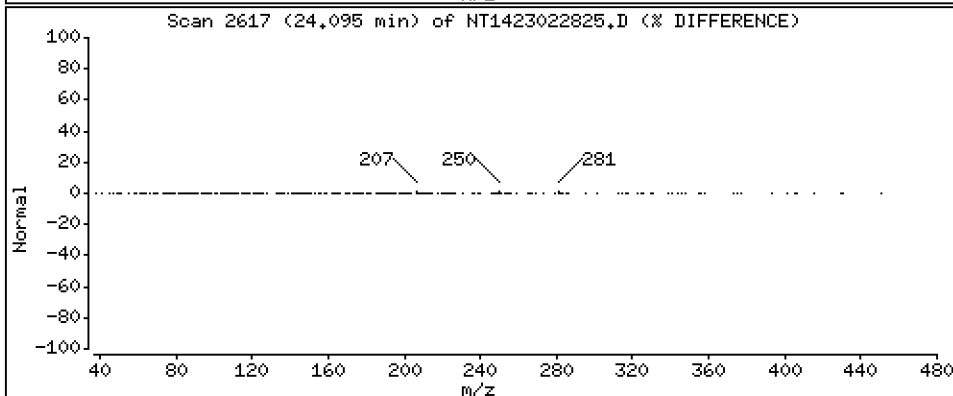
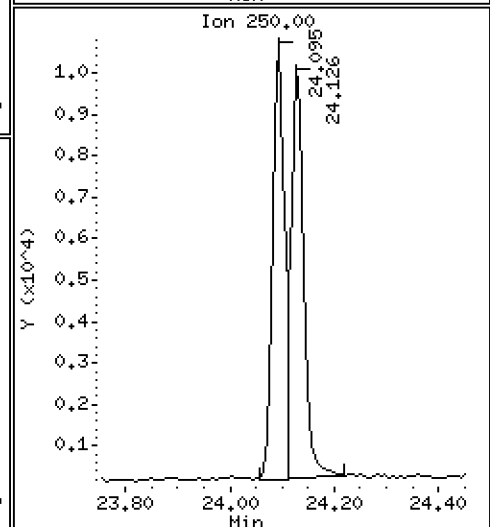
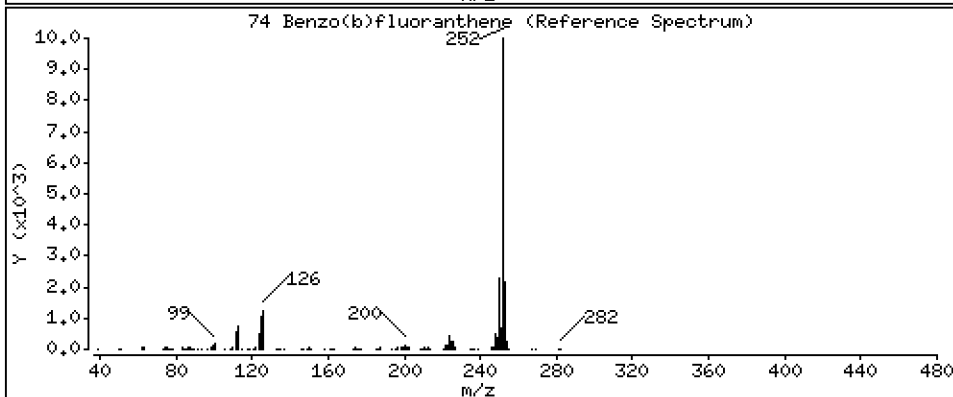
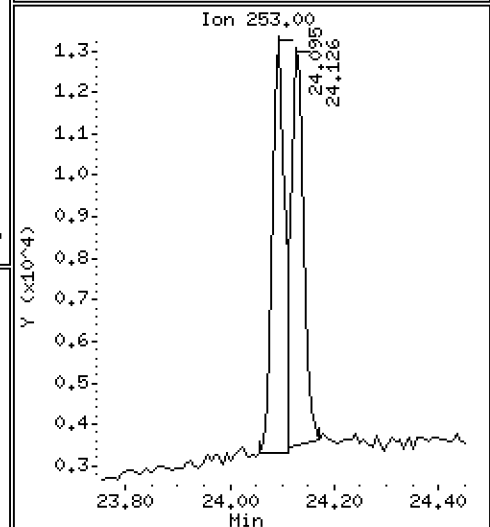
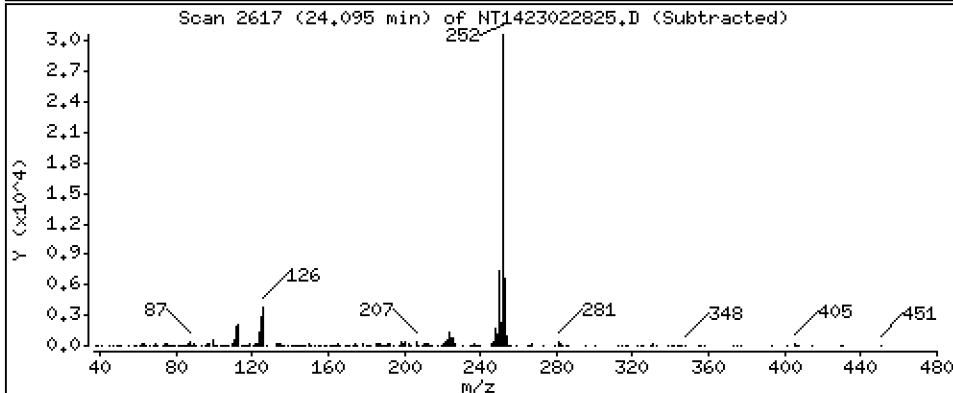
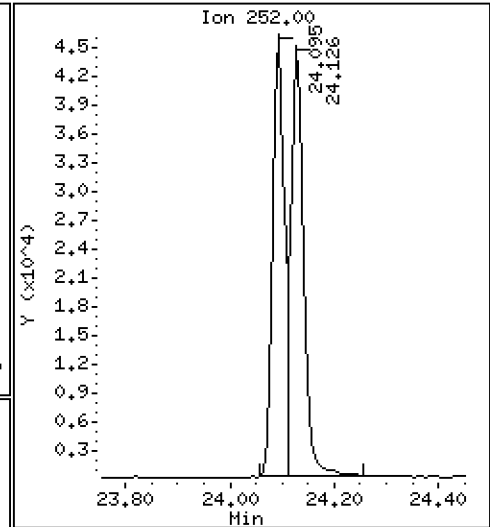
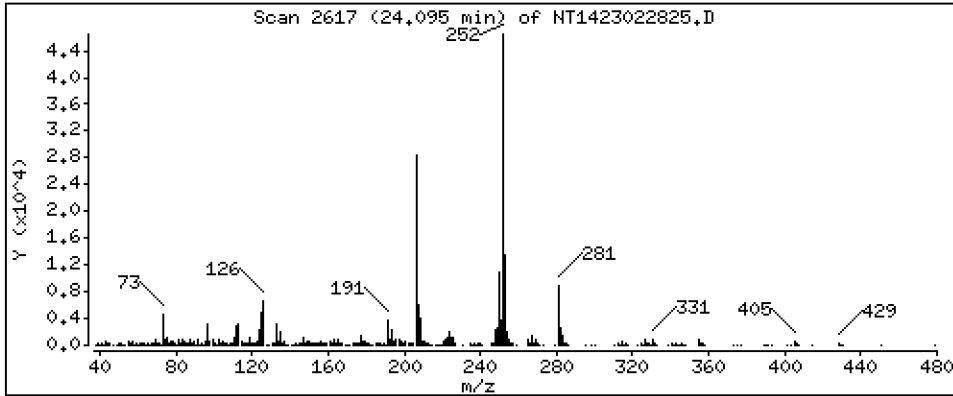
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,5153 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

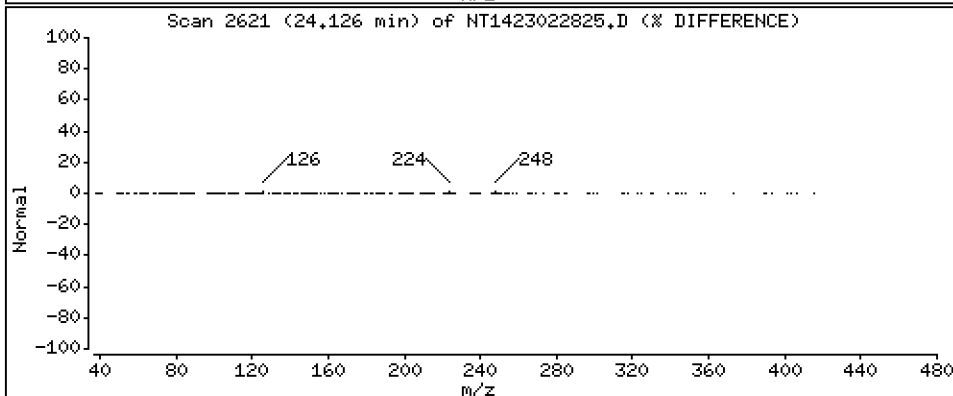
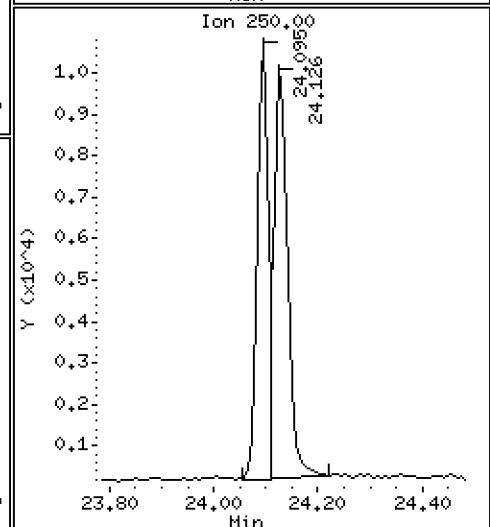
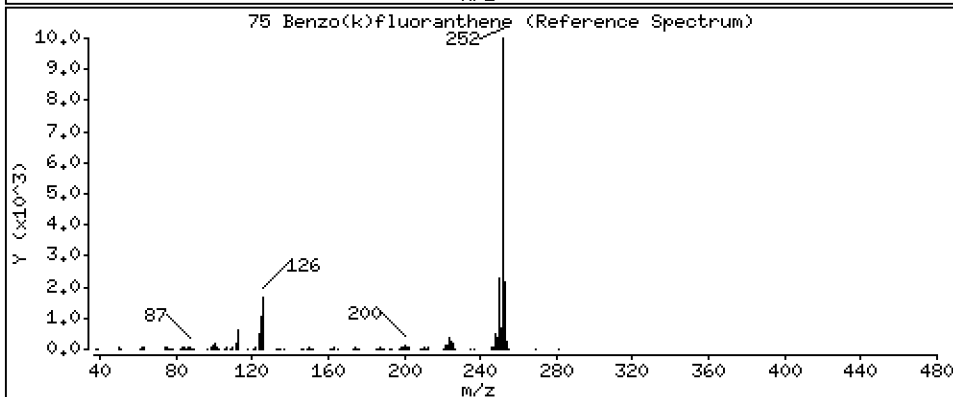
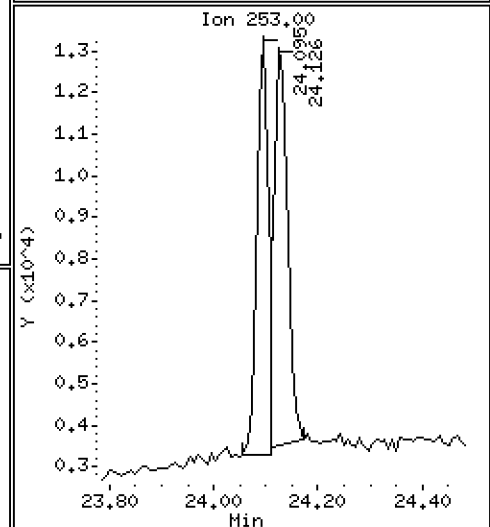
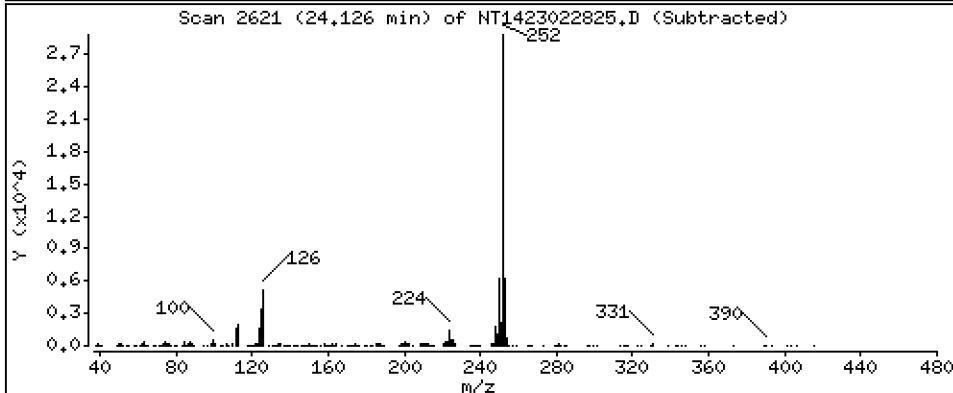
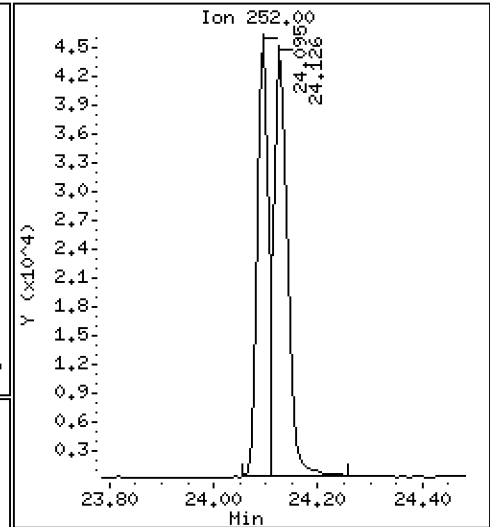
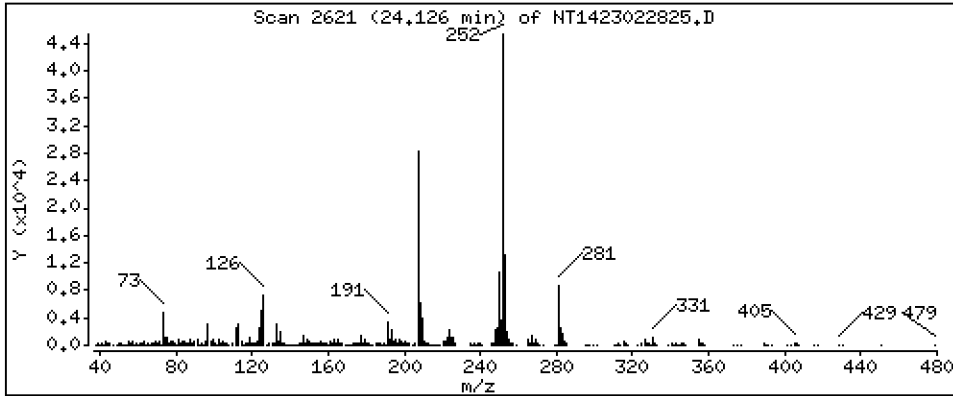
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,5325 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

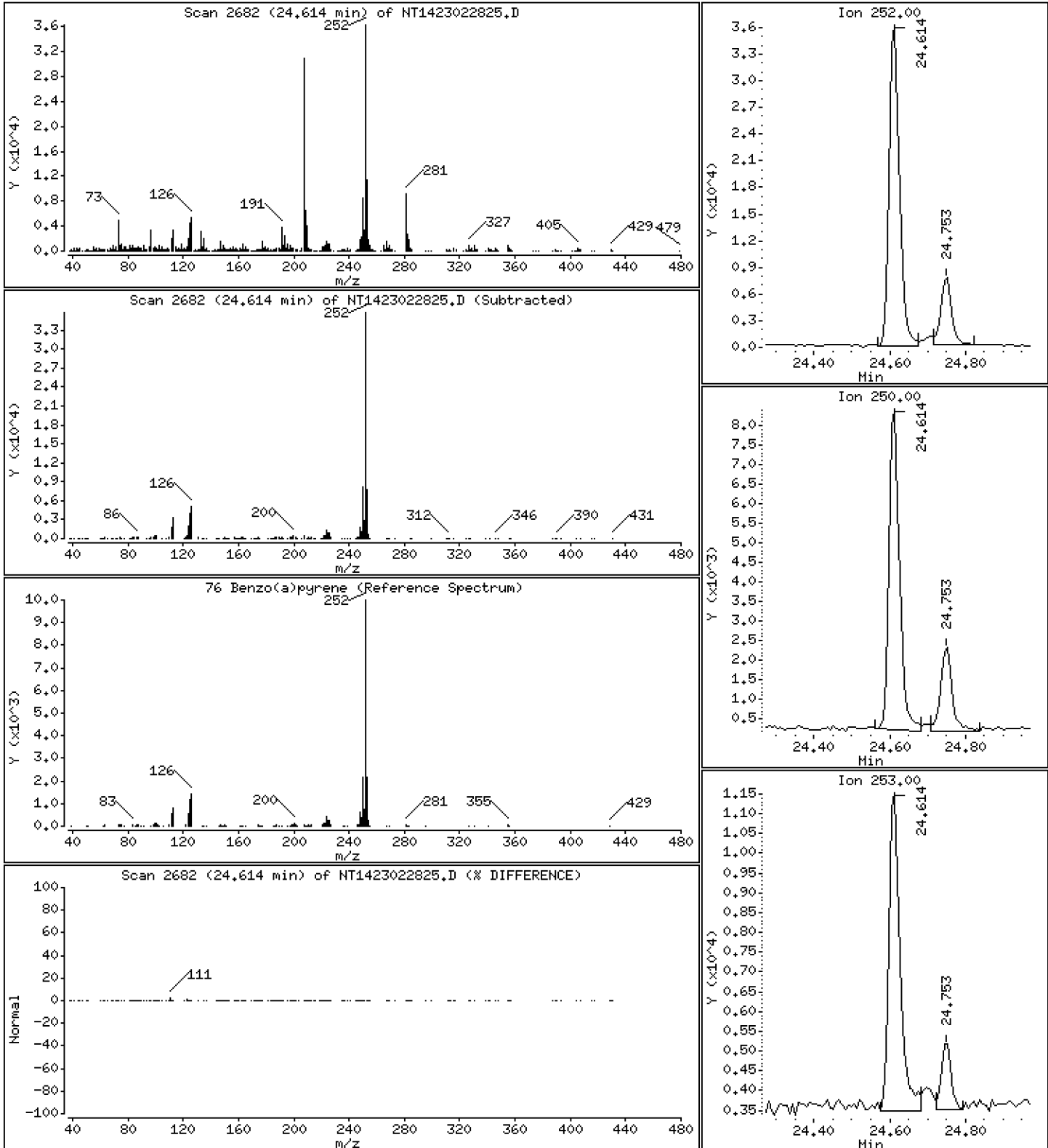
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,5470 ug/mL





Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

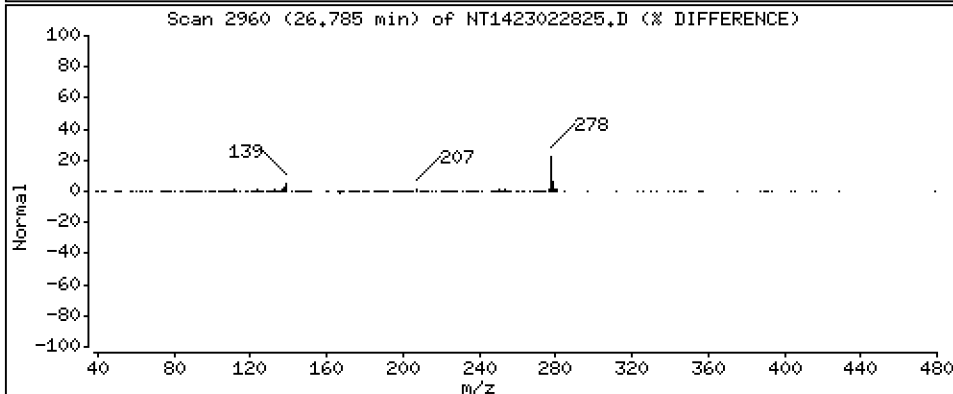
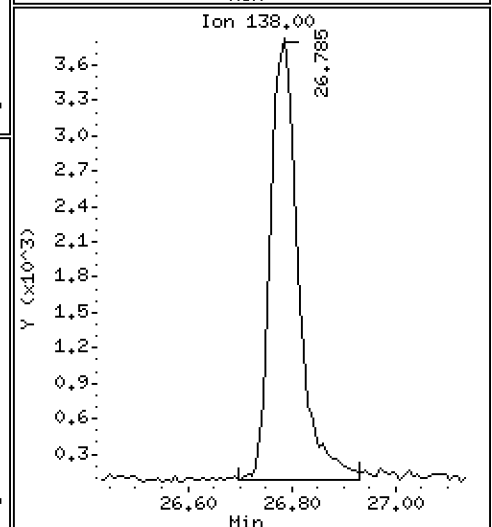
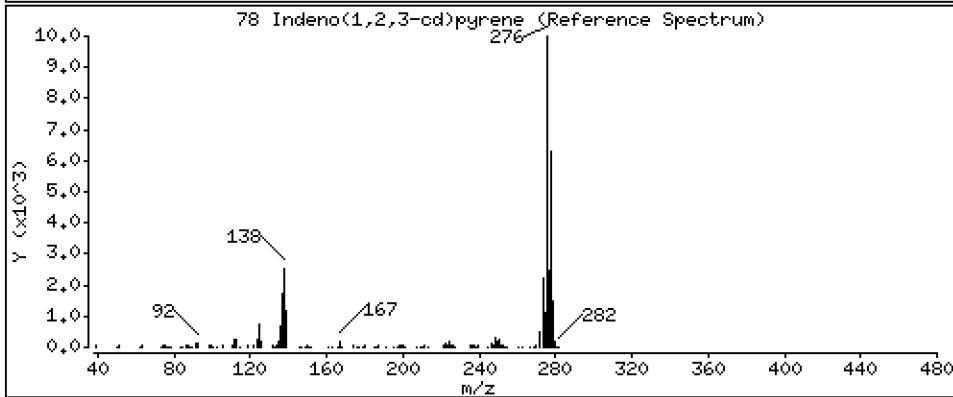
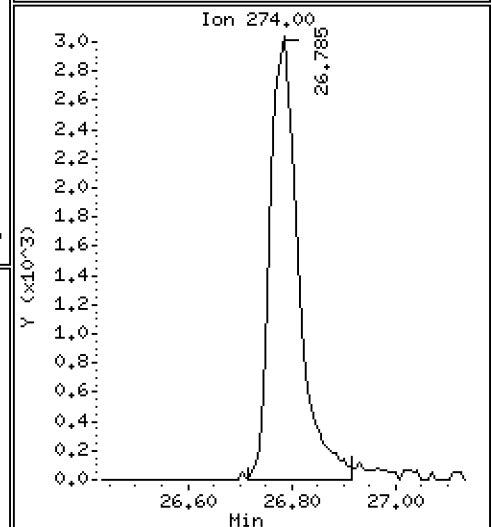
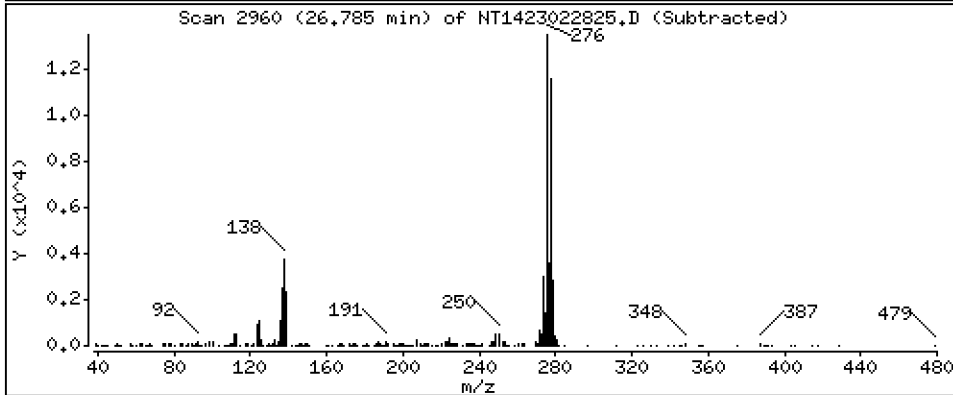
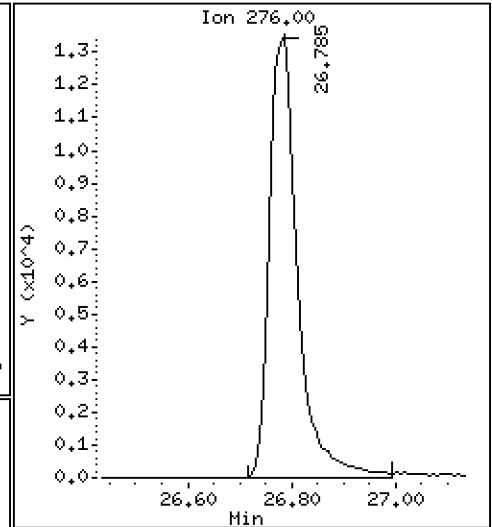
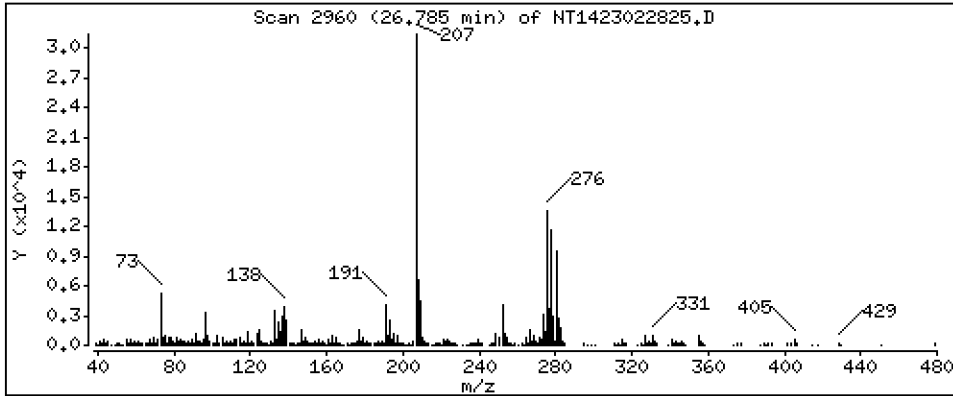
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,3258 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

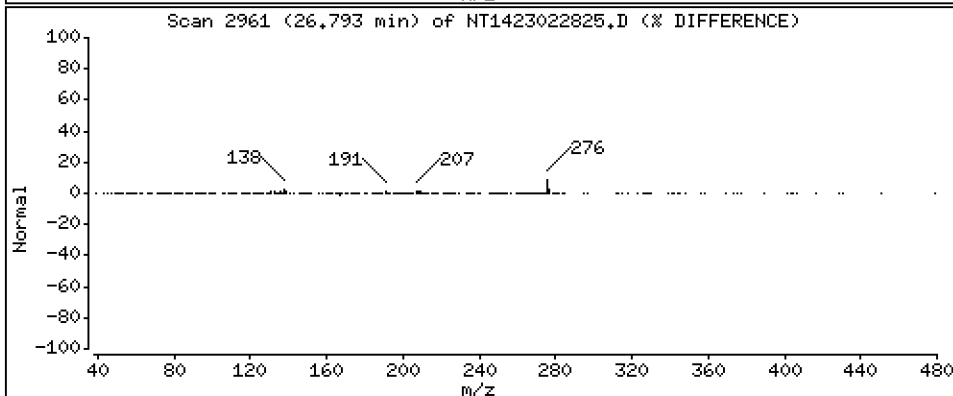
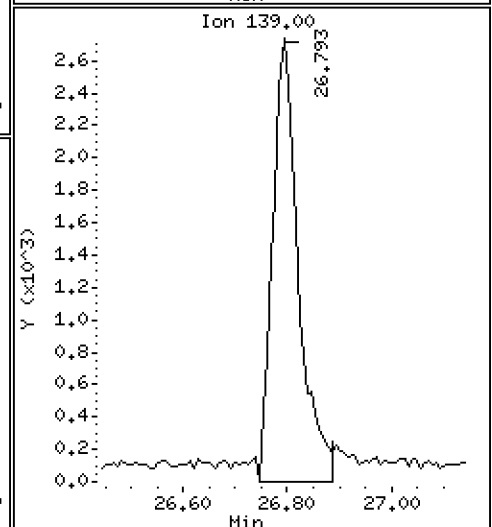
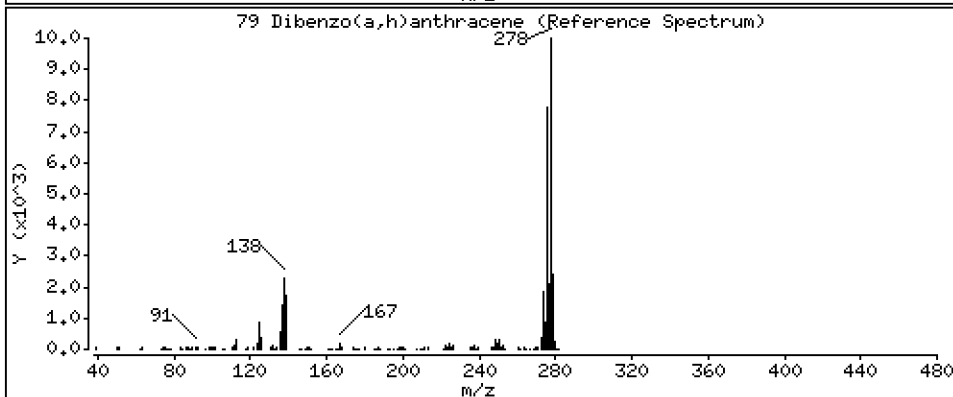
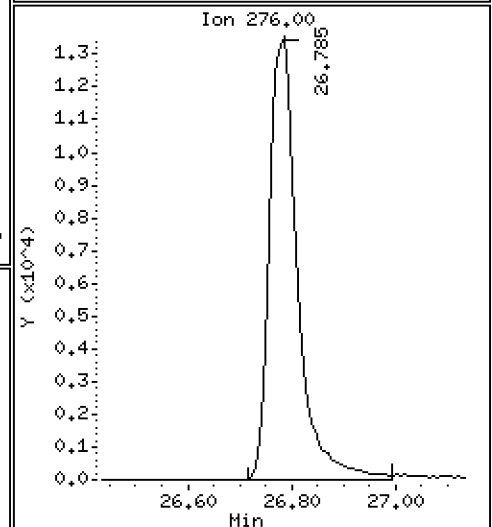
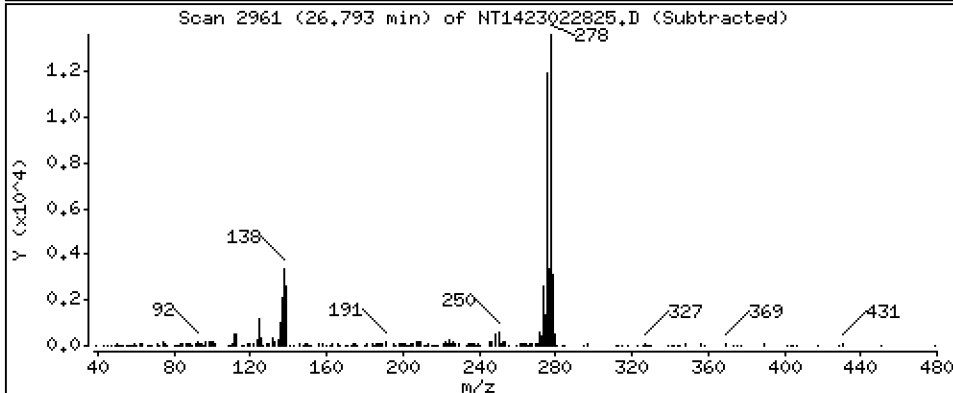
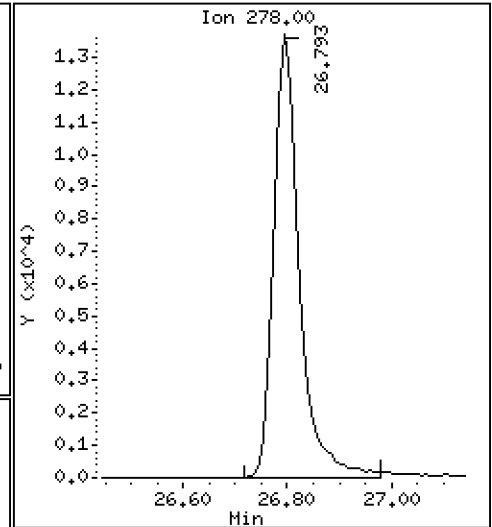
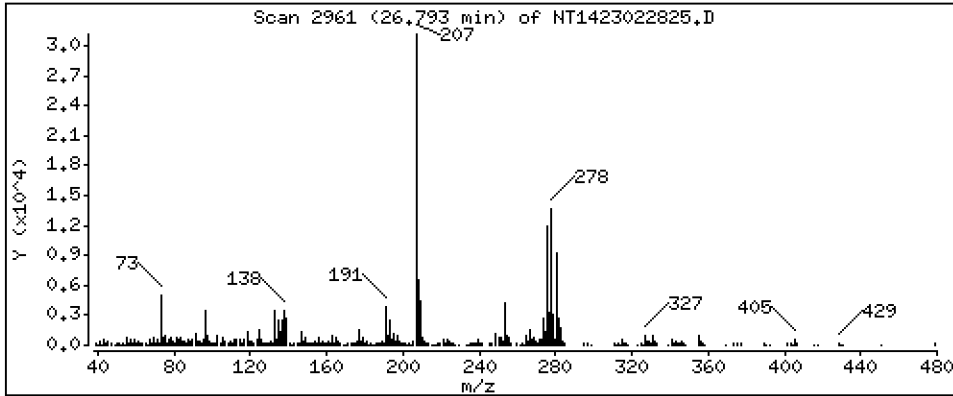
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,3534 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

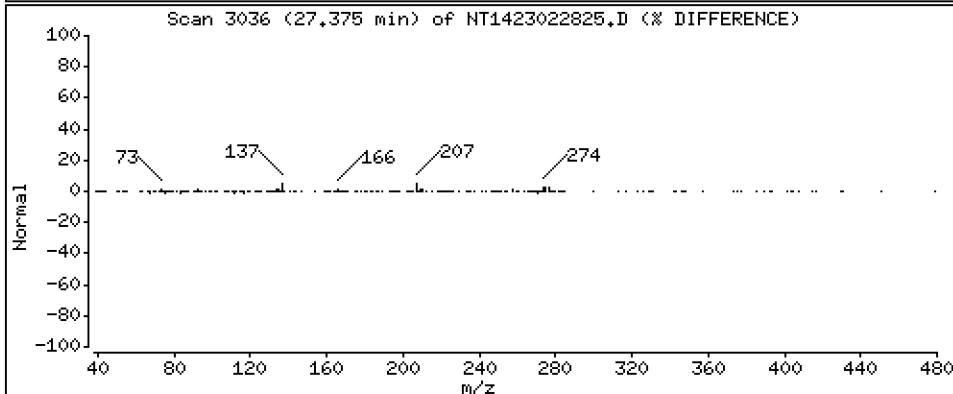
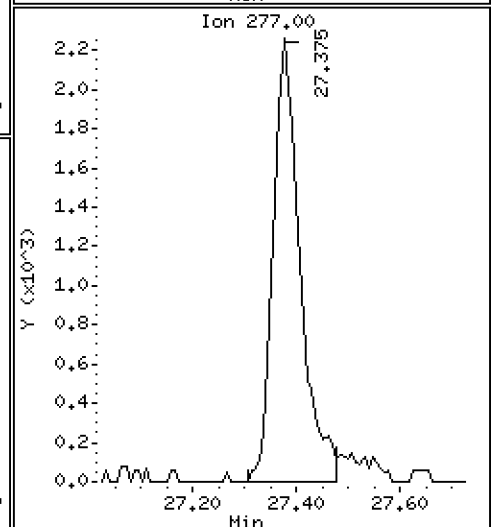
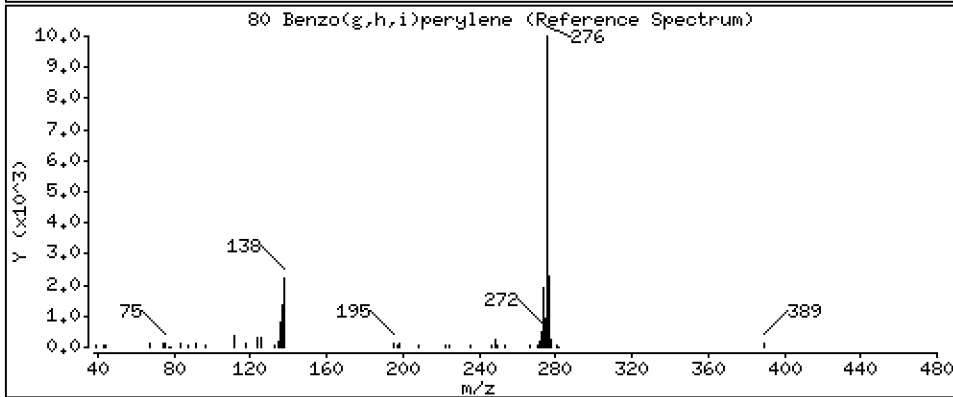
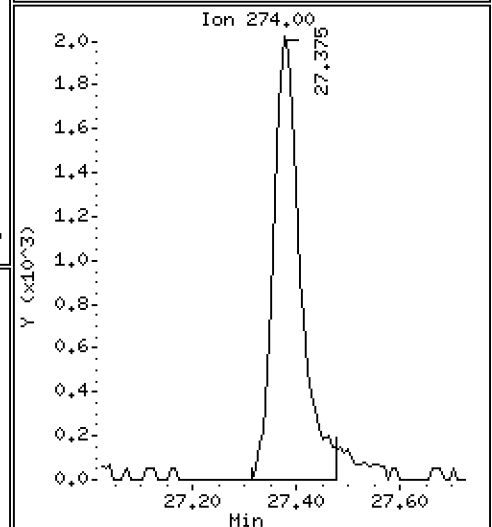
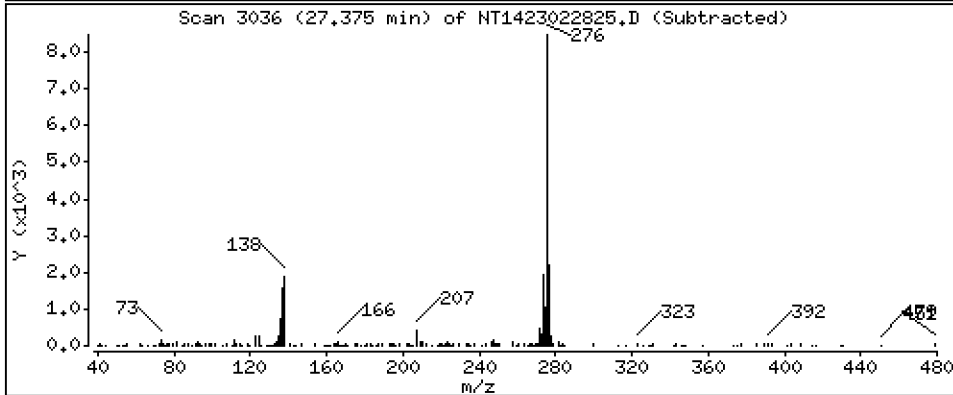
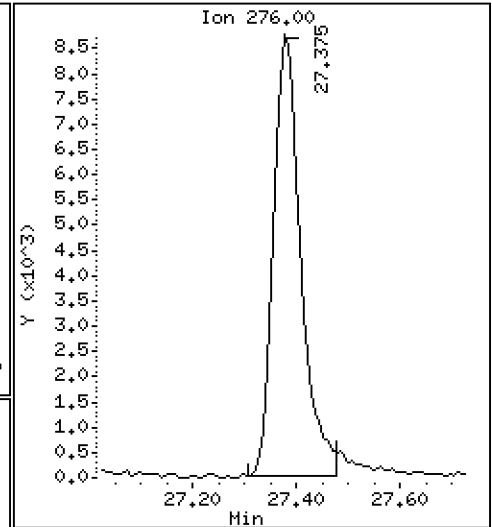
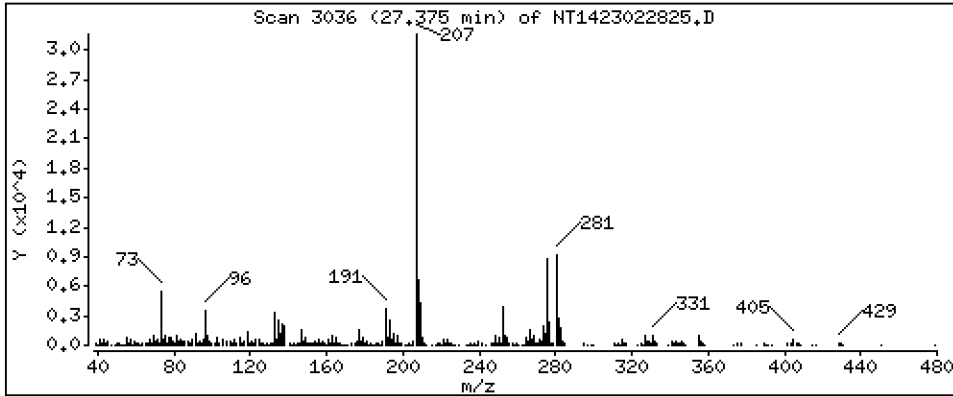
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,2332 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

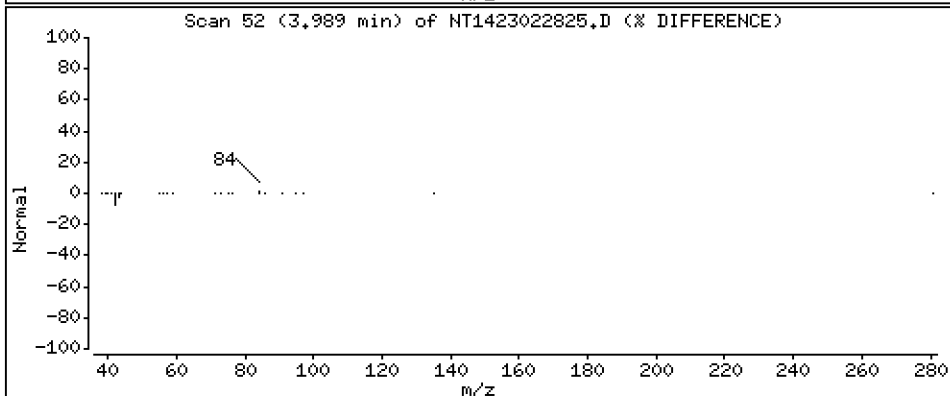
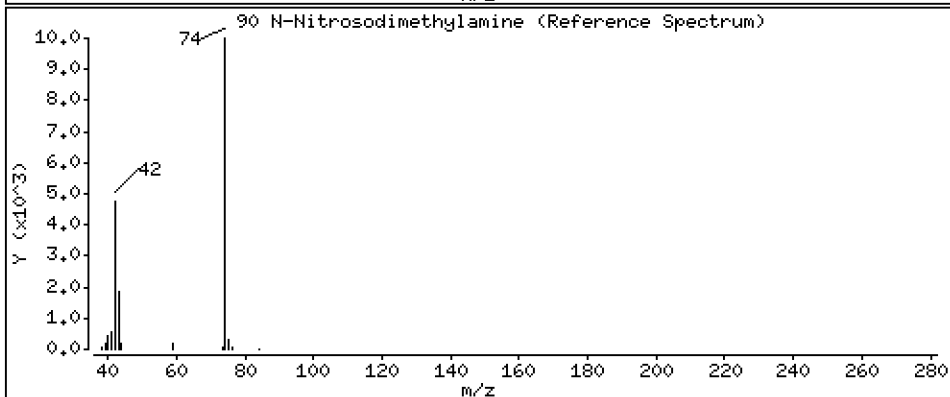
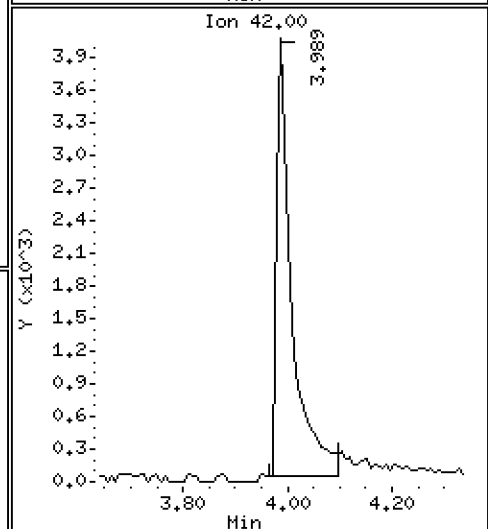
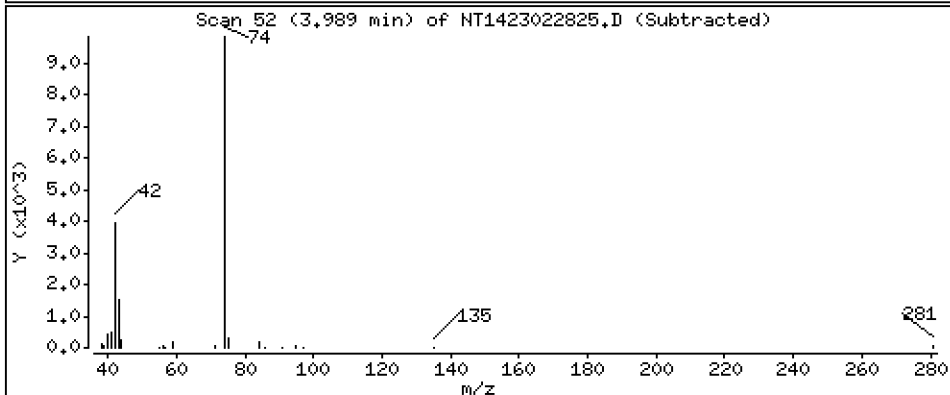
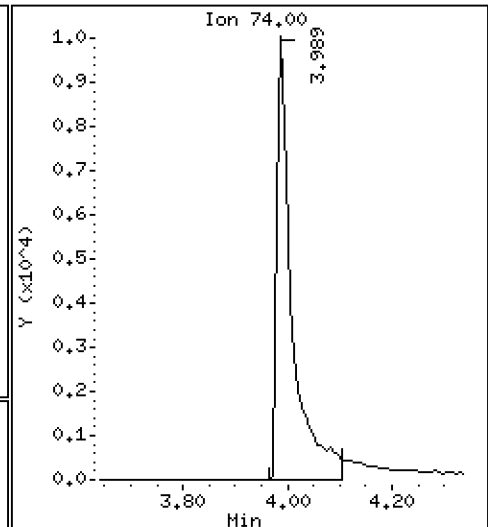
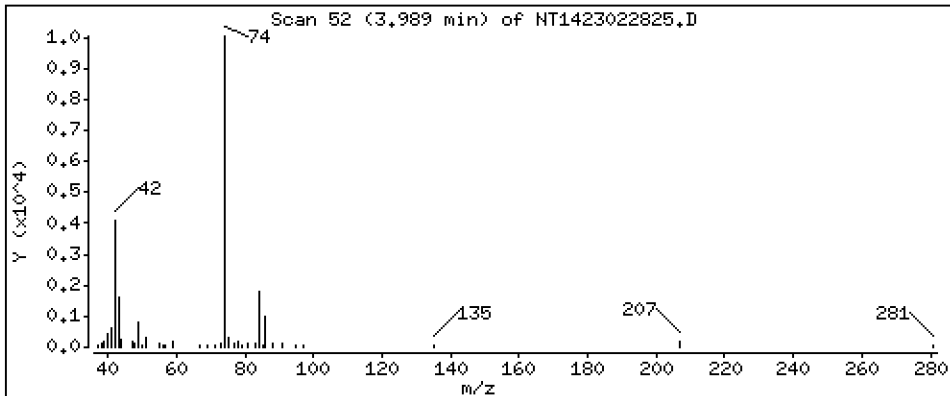
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,7333 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

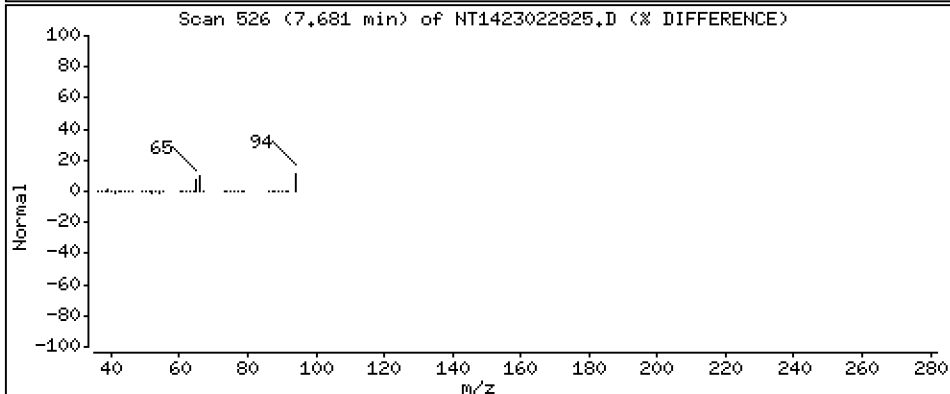
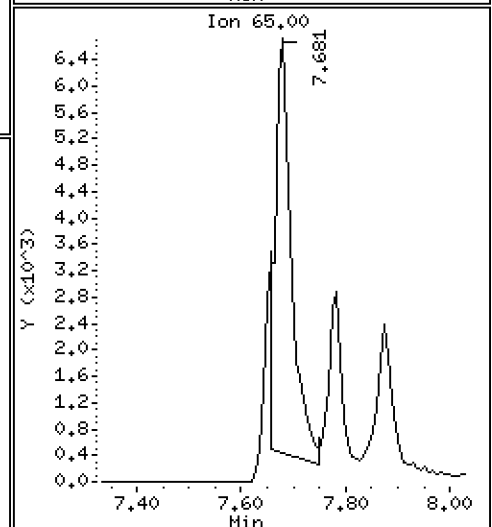
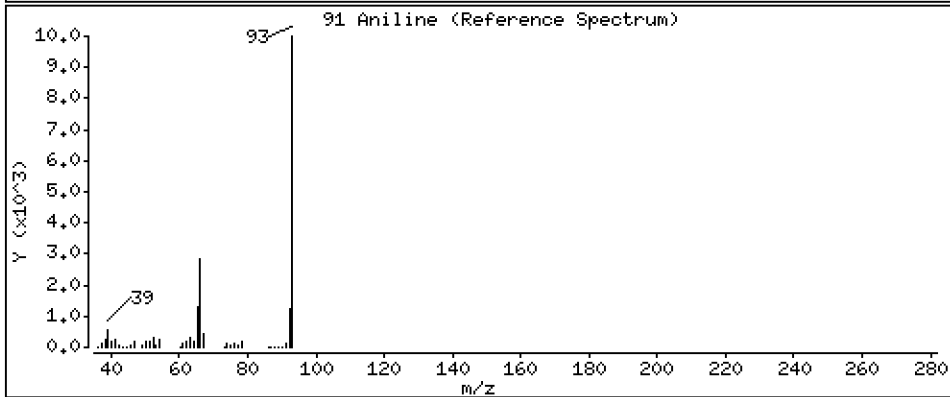
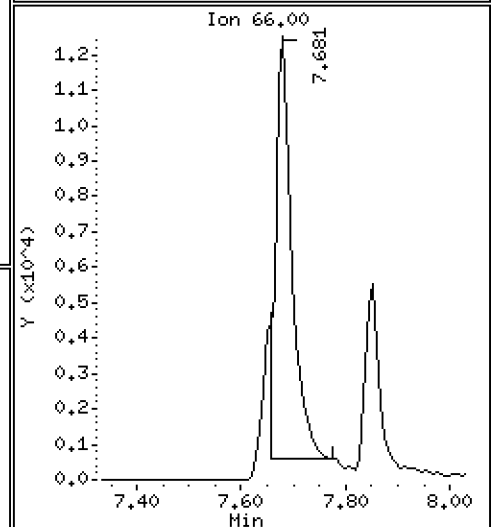
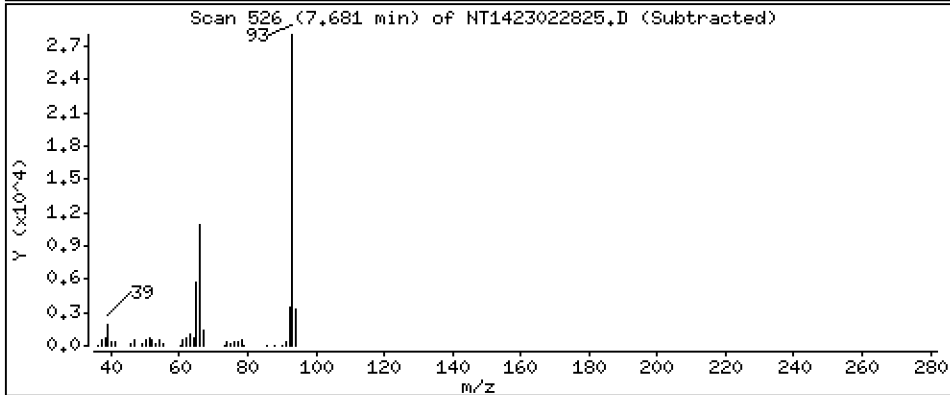
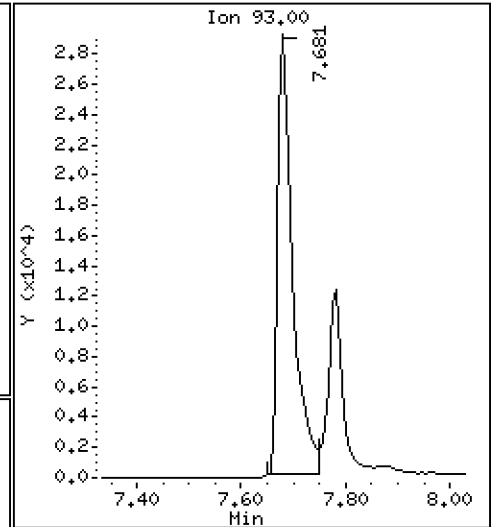
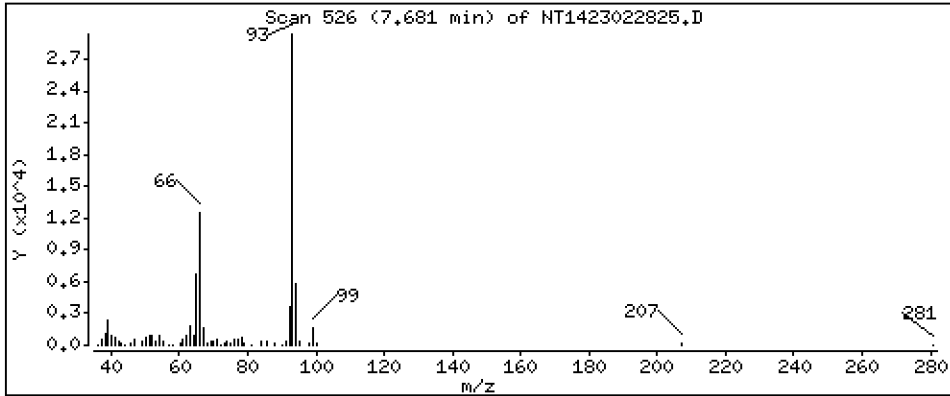
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.9034 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

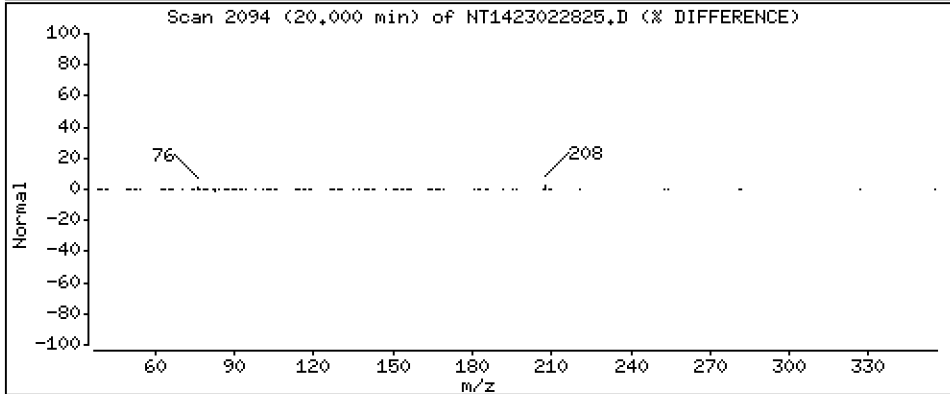
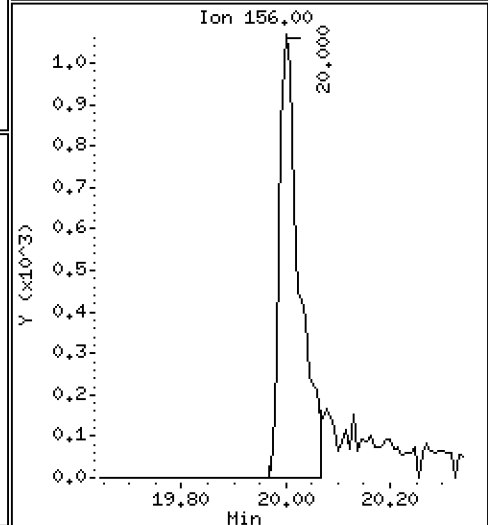
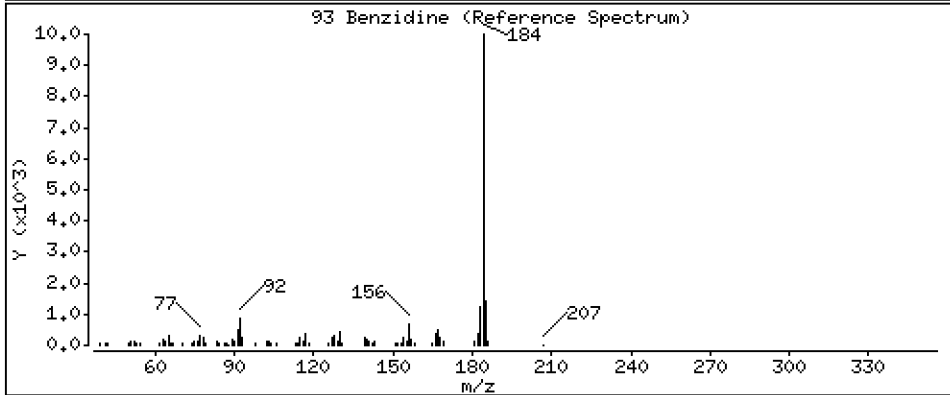
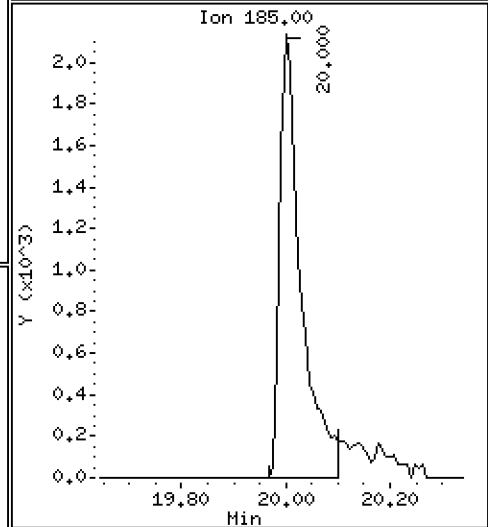
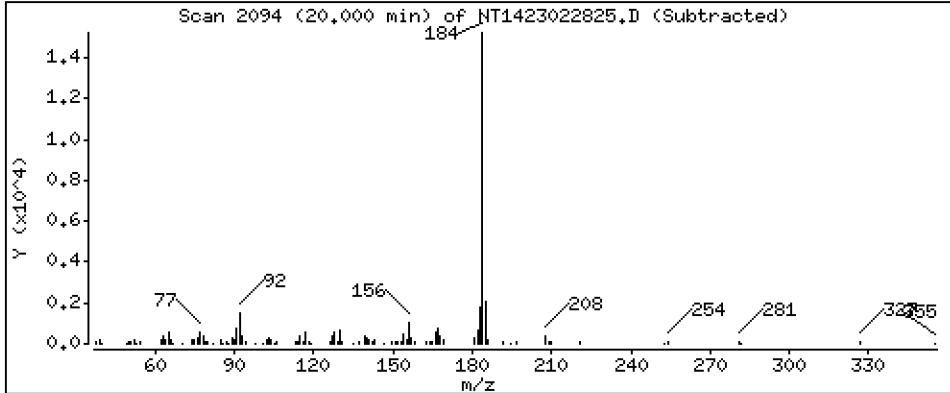
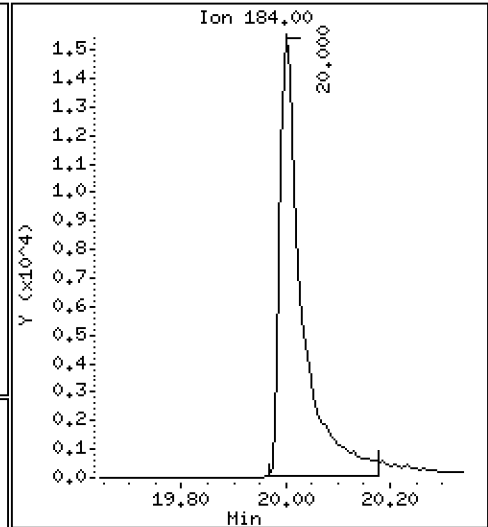
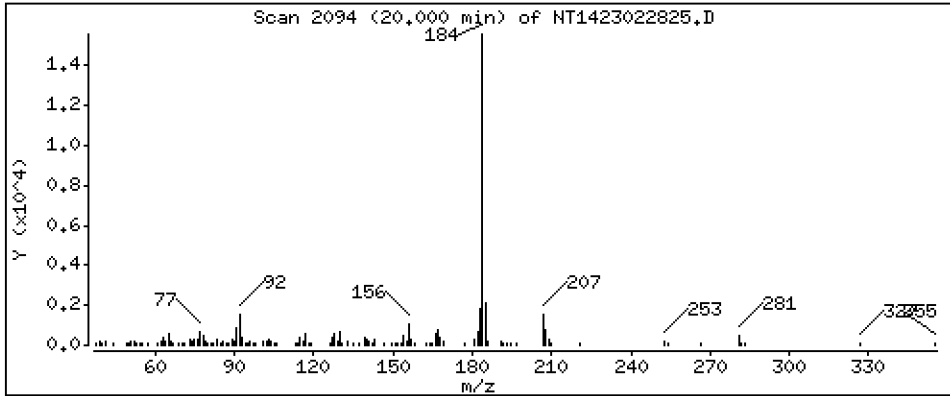
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,7531 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

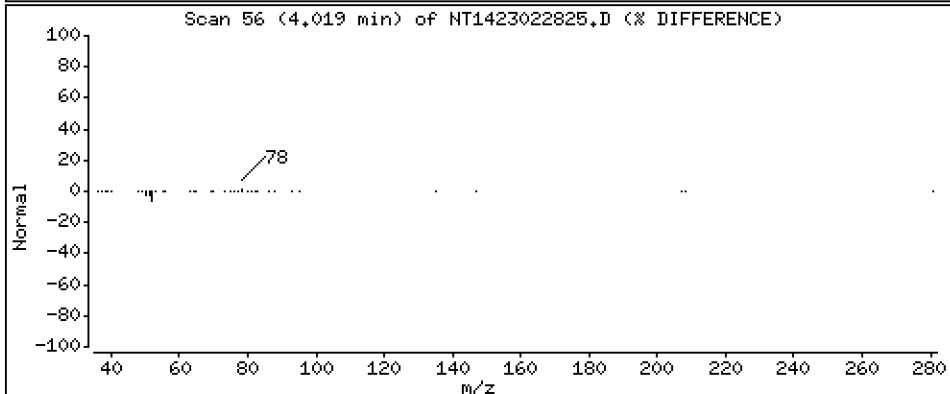
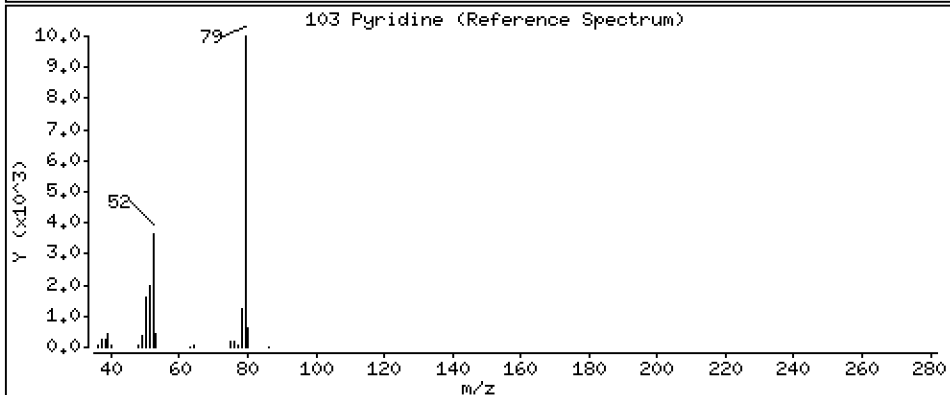
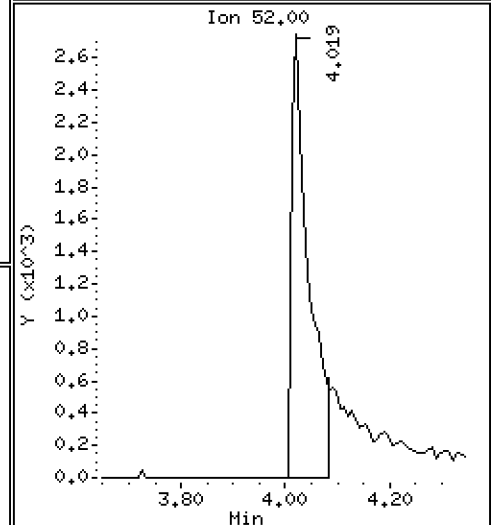
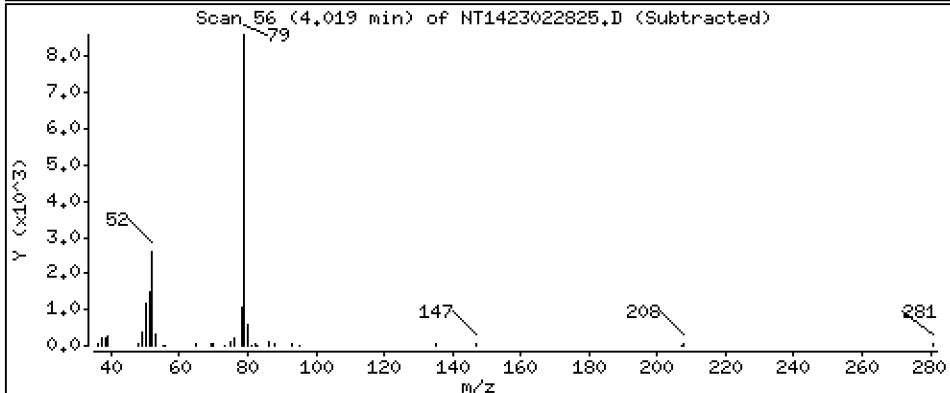
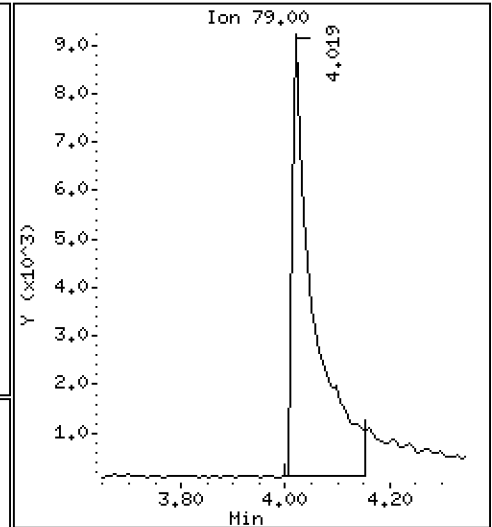
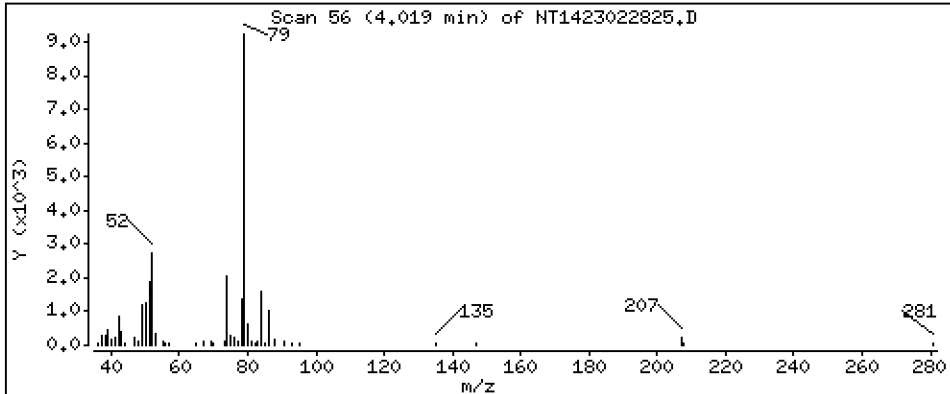
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,3342 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

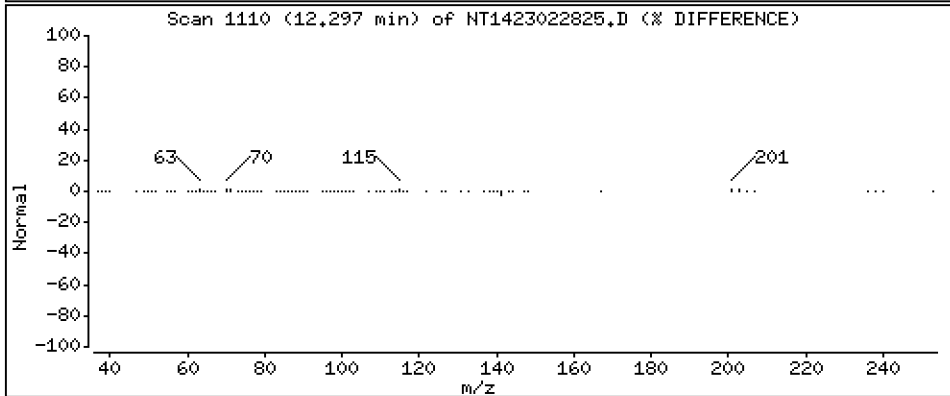
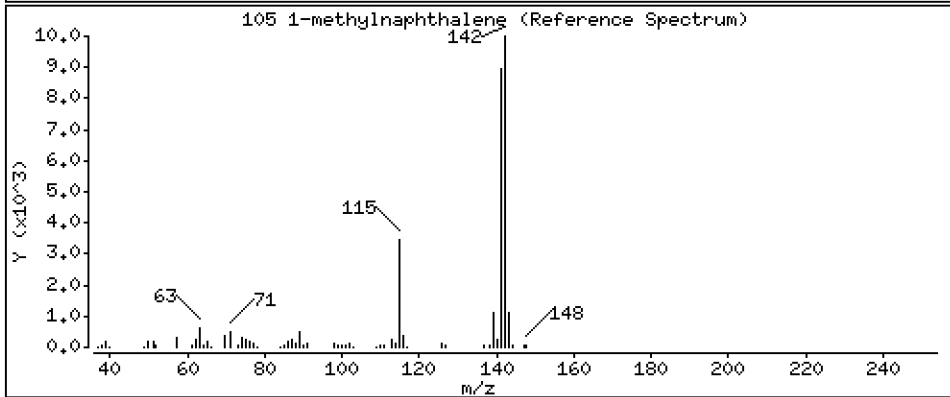
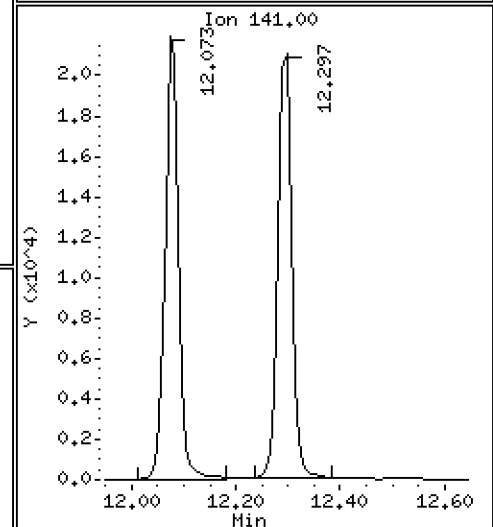
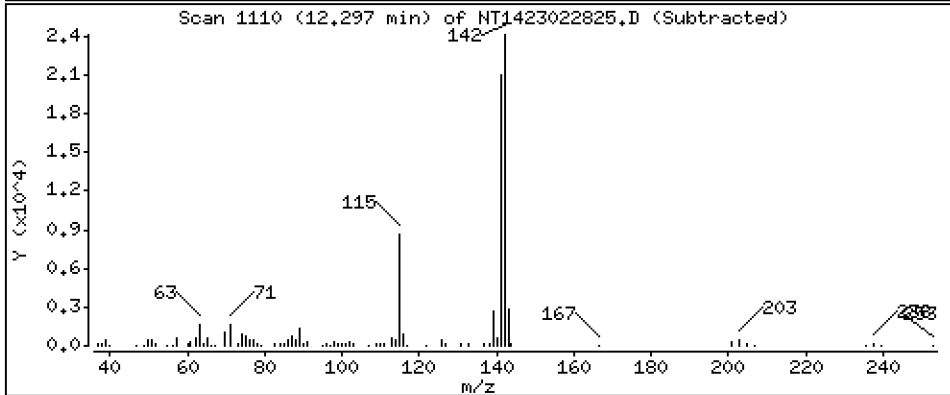
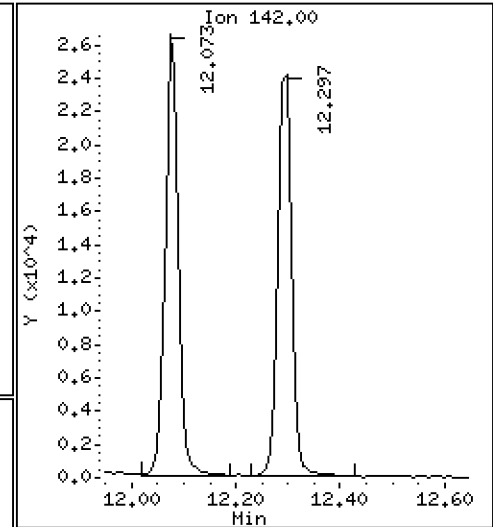
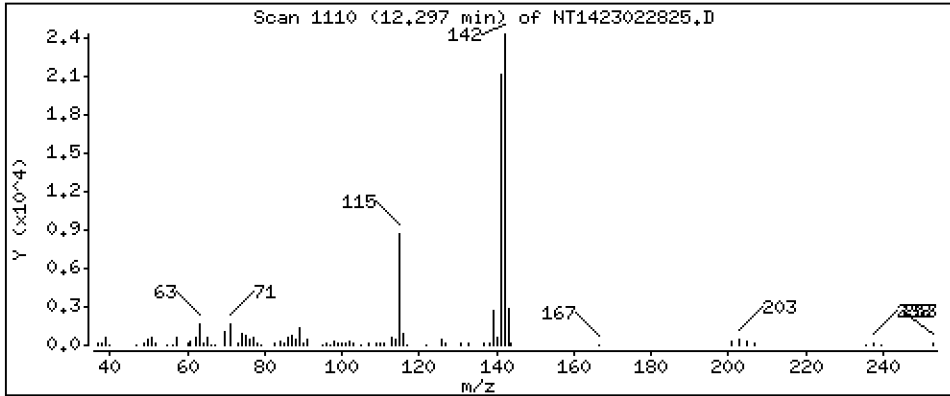
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,5112 ug/mL





Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

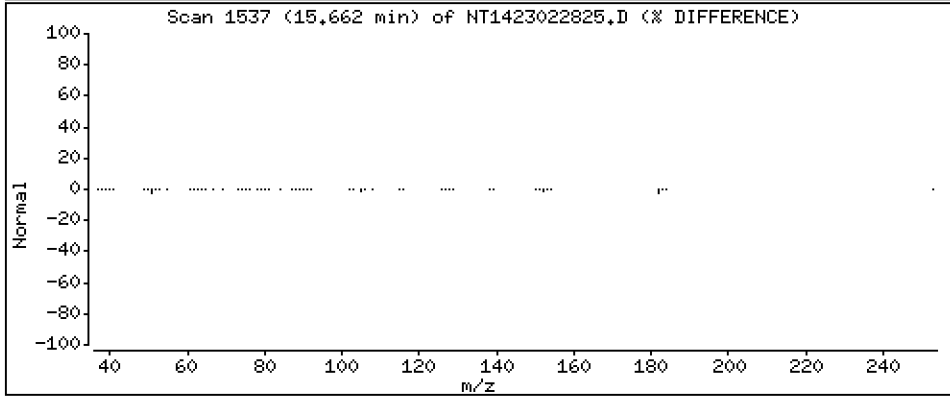
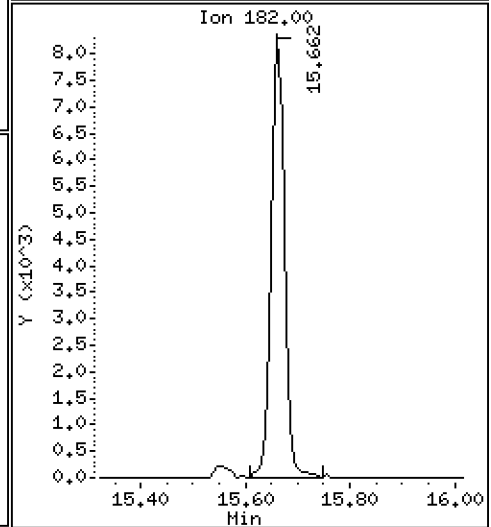
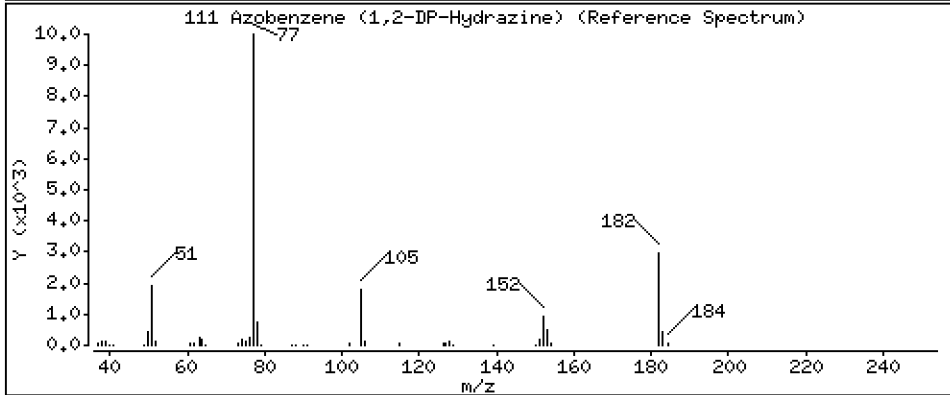
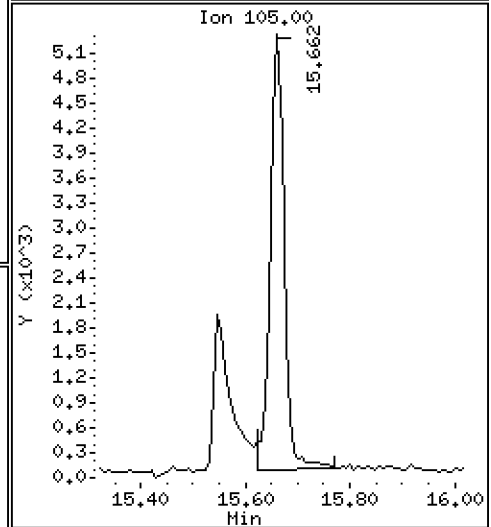
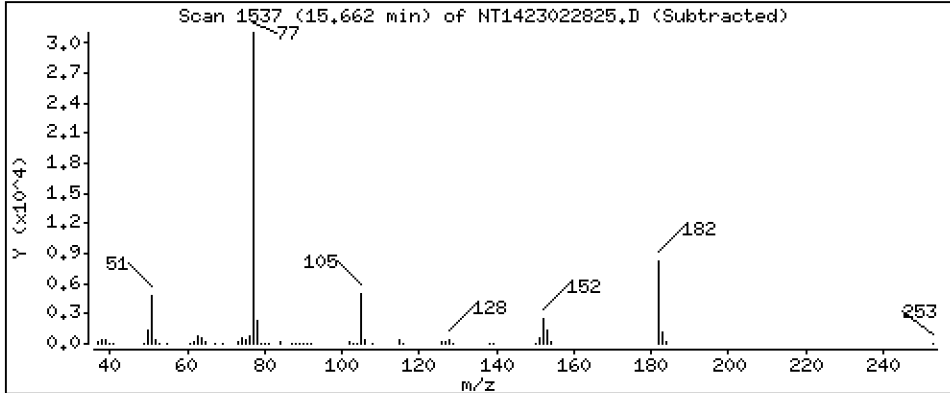
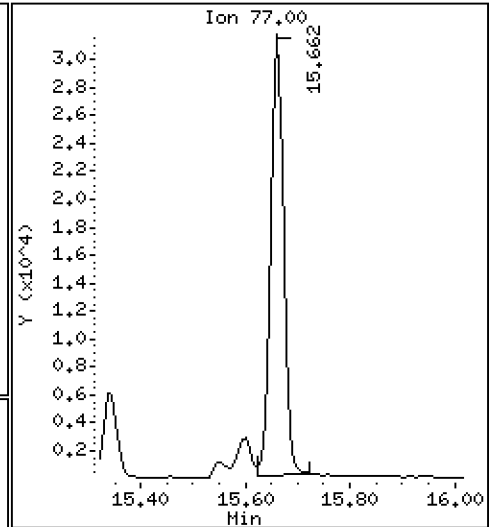
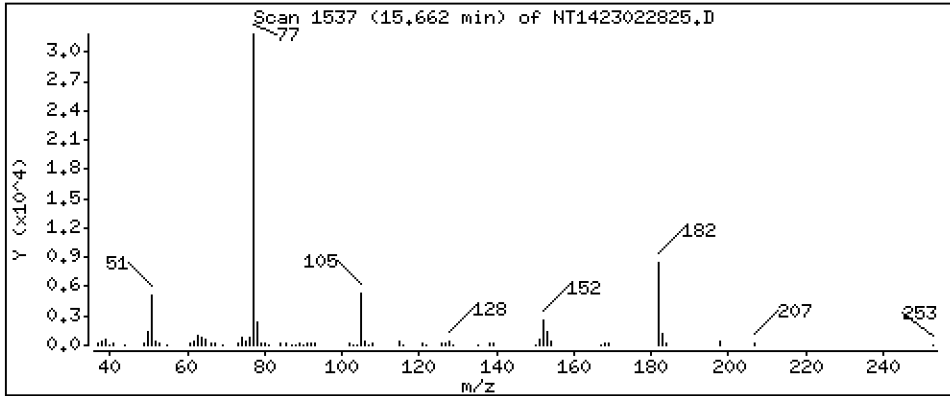
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0.5712 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

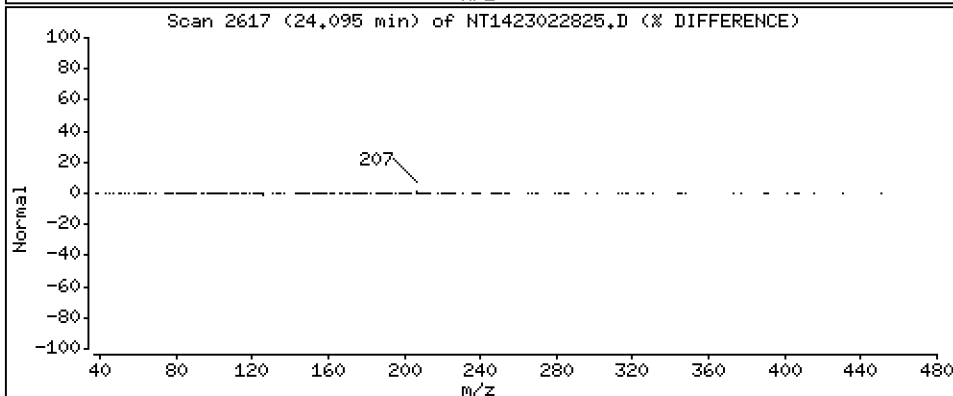
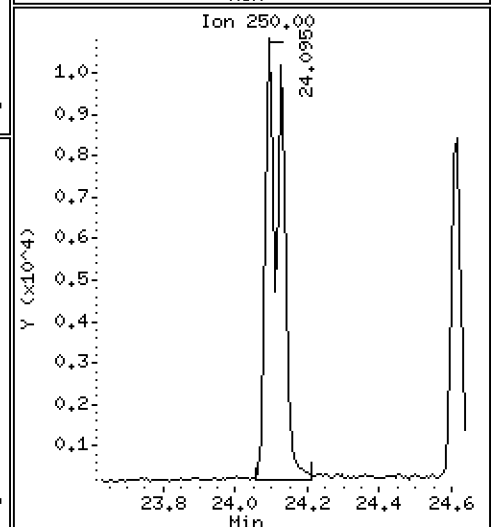
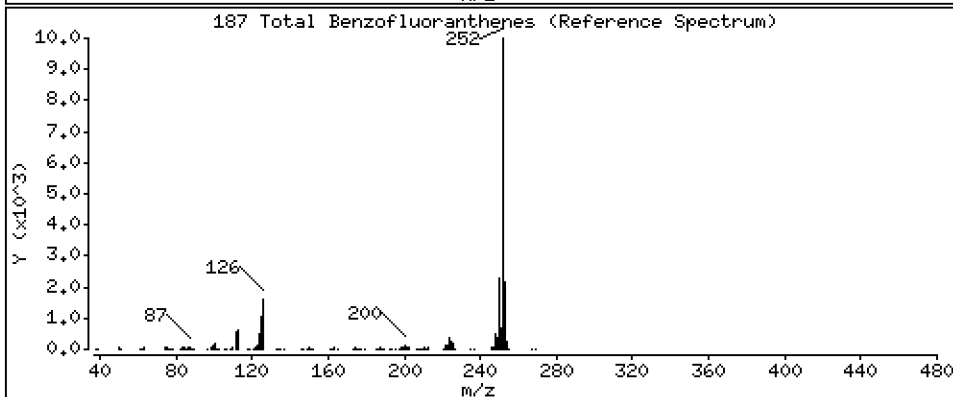
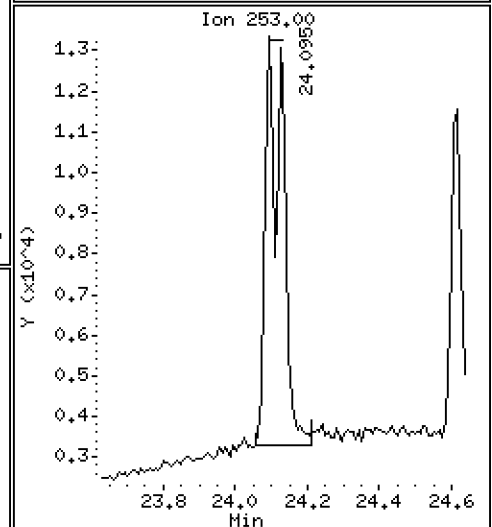
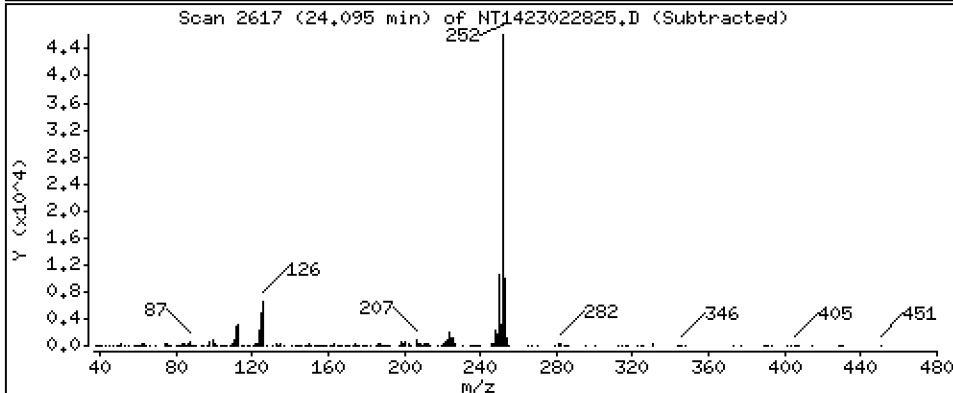
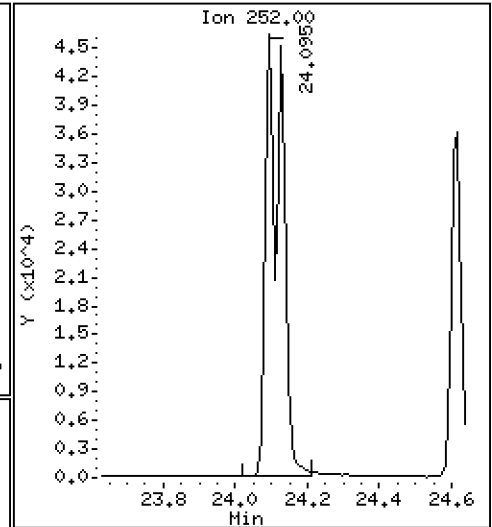
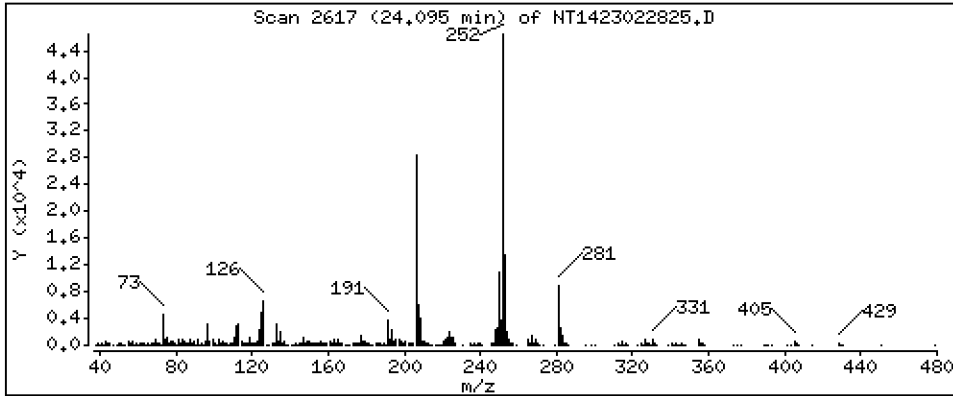
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,055 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

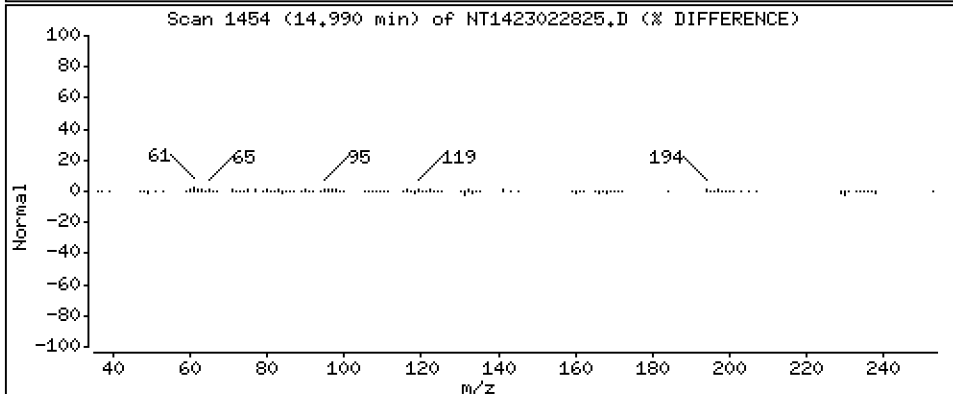
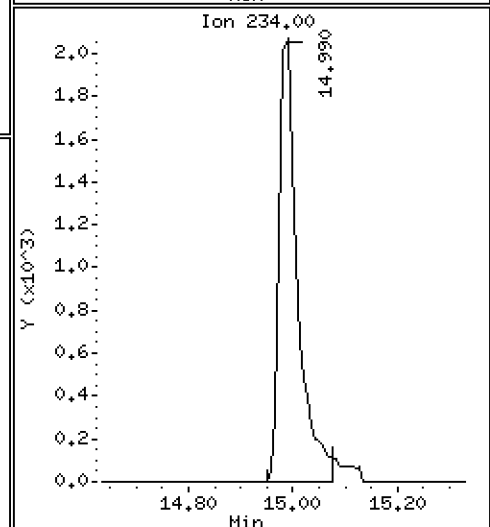
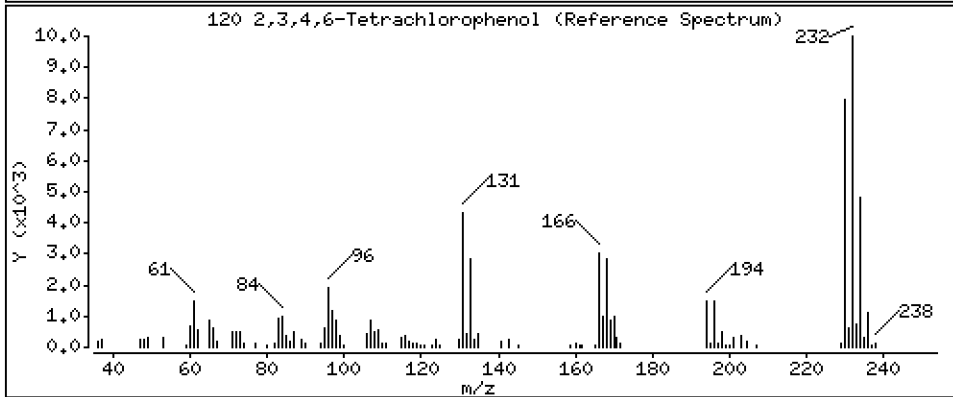
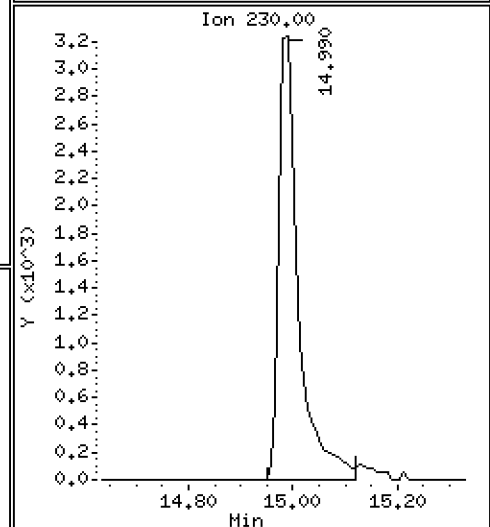
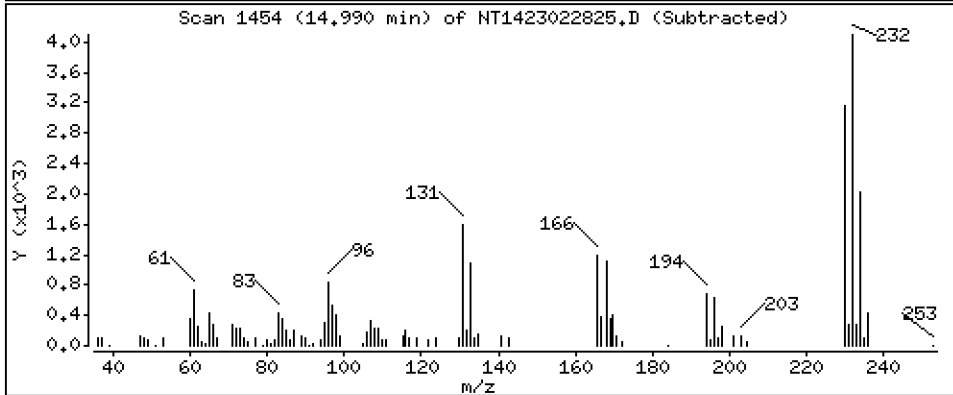
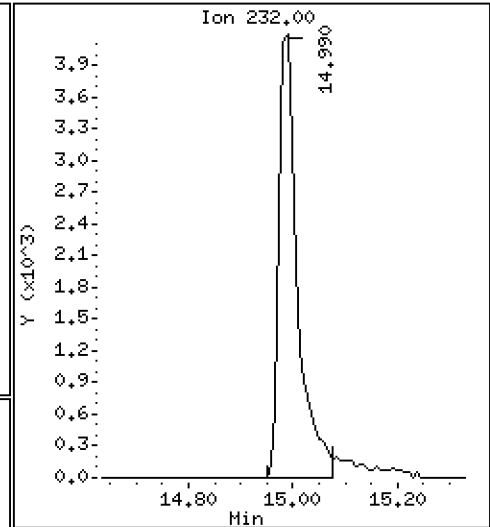
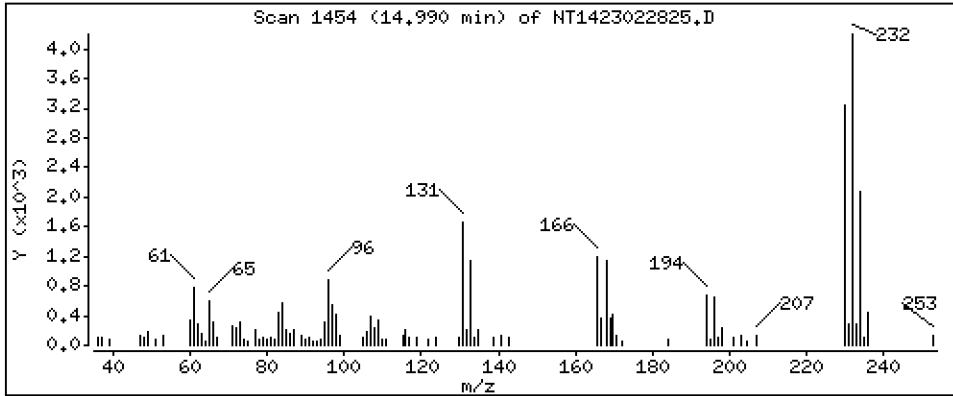
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,3401 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022825.D  
 Lab Smp Id: SLB0374-LCV2  
 Inj Date : 01-MAR-2023 16:04 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-LCV2  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 11-Mar-2023 09:11 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |            |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|------------|
|                                 |       |     |        |        |         |          | ON-COLUMN      | FINAL      |
|                                 | MASS  |     |        |        |         |          | (ug/mL)        | (ug/mL)    |
| \$ 1 2-Fluorophenol             | 112   |     | 6.050  | 6.050  | (0.739) | 24383    | 0.69014        | 0.6901     |
| \$ 2 Phenol-d5                  | 99    |     | 7.634  | 7.634  | (0.932) | 37650    | 0.75058        | 0.7506     |
| 3 Phenol                        | 94    |     | 7.657  | 7.657  | (0.935) | 29884    | 0.49931        | 0.4993     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.850  | 7.850  | (0.958) | 32113    | 0.75290        | 0.7529     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.781  | 7.781  | (0.950) | 21707    | 0.51480        | 0.5148     |
| 6 2-Chlorophenol                | 128   |     | 7.874  | 7.874  | (0.961) | 21368    | 0.48470        | 0.4847     |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.129  | 8.129  | (0.992) | 25546    | 0.52581        | 0.5258     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.191  | 8.191  | (1.000) | 130297   | 4.00000        |            |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.222  | 8.222  | (1.004) | 24260    | 0.50524        | 0.5052     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.548  | 8.548  | (1.044) | 16395    | 0.51058        | 0.5106     |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.571  | 8.571  | (1.046) | 23981    | 0.52085        | 0.5209     |
| 11 Benzyl alcohol               | 108   |     | 8.517  | 8.501  | (1.040) | 7511     | 0.28778        | 0.2878     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.789  | 8.789  | (1.073) | 6479     | 0.52179        | 0.5218 (M) |
| 13 2-Methylphenol               | 108   |     | 8.742  | 8.742  | (1.067) | 18670    | 0.49379        | 0.4938     |
| 17 Hexachloroethane             | 117   |     | 9.146  | 9.146  | (1.117) | 7573     | 0.41997        | 0.4200     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.045  | 9.053  | (1.104) | 15781    | 0.54817        | 0.5482     |
| 15 4-Methylphenol               | 108   |     | 9.021  | 9.014  | (1.101) | 18566    | 0.42187        | 0.4219     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.285  | 9.285  | (0.873) | 24219    | 0.53982        | 0.5398     |
| 19 Nitrobenzene                 | 77    |     | 9.324  | 9.316  | (0.876) | 23728    | 0.55036        | 0.5504     |
| 20 Isophorone                   | 82    |     | 9.766  | 9.774  | (0.918) | 29206    | 0.43378        | 0.4338     |
| 21 2-Nitrophenol                | 139   |     | 9.945  | 9.945  | (0.935) | 8334     | 0.37342        | 0.3734     |
| 22 2,4-Dimethylphenol           | 107   |     | 10.038 | 10.038 | (0.943) | 43062    | 1.09561        | 1.096      |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.224 | 10.224 | (0.961) | 21581    | 0.49789        | 0.4979     |
| 24 Benzoic acid                 | 105   |     | 10.649 | 10.364 | (1.001) | 8835     | 0.56723        | 0.5672 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | 10.410 | 10.402 | (0.978) | 34152    | 0.85893        | 0.8589     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.572 | 10.572 | (0.993) | 22471    | 0.50588        | 0.5059     |
| * 27 Naphthalene-d8             | 136   |     | 10.642 | 10.649 | (1.000) | 458645   | 4.00000        |            |
| 28 Naphthalene                  | 128   |     | 10.688 | 10.688 | (1.004) | 64820    | 0.52984        | 0.5298     |
| 29 4-Chloroaniline              | 127   |     | 10.850 | 10.850 | (1.020) | 49527    | 0.94650        | 0.9465     |
| 30 Hexachlorobutadiene          | 225   |     | 11.059 | 11.066 | (1.039) | 14894    | 0.54949        | 0.5495     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.848 | 11.840 | (1.113) | 34399    | 0.97231        | 0.9723     |
| 32 2-Methylnaphthalene          | 142   |     | 12.072 | 12.080 | (1.134) | 45932    | 0.50700        | 0.5070     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.544 | 12.545 | (0.881) | 807      | 0.02907        | 0.02907    |

| Compounds                         | QUANT SIG |        |        |         |          | CONCENTRATIONS       |                  |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 12.715 | 12.715 | (0.893) | 24128    | 0.93333              | 0.9333           |
| 35 2,4,5-Trichlorophenol          | 196       | 12.800 | 12.792 | (0.899) | 24519    | 0.87721              | 0.8772           |
| § 36 2-Fluorobiphenyl             | 172       | 12.869 | 12.877 | (0.904) | 53901    | 0.52329              | 0.5233           |
| 37 2-Chloronaphthalene            | 162       | 13.055 | 13.063 | (0.917) | 42981    | 0.52054              | 0.5205           |
| 38 2-Nitroaniline                 | 65        | 13.349 | 13.349 | (0.938) | 22569    | 1.04801              | 1.048            |
| 39 Dimethylphthalate              | 163       | 13.790 | 13.798 | (0.969) | 45635    | 0.54823              | 0.5482           |
| 40 Acenaphthylene                 | 152       | 13.914 | 13.922 | (0.978) | 68668    | 0.56675              | 0.5668           |
| 41 2,6-Dinitrotoluene             | 165       | 13.914 | 13.922 | (0.978) | 19398    | 0.99445              | 0.9944           |
| * 42 Acenaphthene-d10             | 164       | 14.232 | 14.232 | (1.000) | 264644   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138       | 14.201 | 14.201 | (0.998) | 18220    | 0.91134              | 0.9113 (M)       |
| 44 Acenaphthene                   | 153       | 14.293 | 14.301 | (1.004) | 40422    | 0.52108              | 0.5211           |
| 45 2,4-Dinitrophenol              | 184       | 14.479 | 14.417 | (1.017) | 4113     | 0.33346              | 0.3335 (M)       |
| 46 Dibenzofuran                   | 168       | 14.626 | 14.626 | (1.028) | 62717    | 0.50811              | 0.5081           |
| 47 4-Nitrophenol                  | 109       | 14.626 | 14.579 | (1.028) | 7202     | 0.72835              | 0.7283 (M)       |
| 48 2,4-Dinitrotoluene             | 165       | 14.719 | 14.726 | (1.034) | 24221    | 0.86252              | 0.8625           |
| 50 Diethylphthalate               | 149       | 15.237 | 15.252 | (1.071) | 42301    | 0.54343              | 0.5434           |
| 49 Fluorene                       | 166       | 15.329 | 15.330 | (1.077) | 55678    | 0.53537              | 0.5354           |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.345 | 15.345 | (1.078) | 28067    | 0.50722              | 0.5072           |
| 52 4-Nitroaniline                 | 138       | 15.469 | 15.469 | (1.087) | 15994    | 0.80704              | 0.8070           |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.553 | 15.553 | (0.902) | 12809    | 0.76541              | 0.7654           |
| 54 N-Nitrosodiphenylamine         | 169       | 15.600 | 15.607 | (0.905) | 35122    | 0.55522              | 0.5552           |
| § 55 2,4,6-Tribromophenol         | 330       | 15.869 | 15.870 | (1.115) | 8877     | 0.62352              | 0.6235           |
| 56 4-Bromophenyl-phenylether      | 248       | 16.332 | 16.340 | (0.947) | 14281    | 0.51351              | 0.5135           |
| 57 Hexachlorobenzene              | 284       | 16.626 | 16.626 | (0.965) | 15894    | 0.51981              | 0.5198           |
| 58 Pentachlorophenol              | 266       | 17.021 | 17.005 | (0.987) | 6162     | 0.42793              | 0.4279 (M)       |
| * 59 Phenanthrene-d10             | 188       | 17.237 | 17.237 | (1.000) | 503378   | 4.00000              |                  |
| 60 Phenanthrene                   | 178       | 17.284 | 17.291 | (1.003) | 68635    | 0.51255              | 0.5125           |
| 61 Anthracene                     | 178       | 17.376 | 17.384 | (1.008) | 65695    | 0.51894              | 0.5189           |
| 62 Carbazole                      | 167       | 17.732 | 17.732 | (1.029) | 54926    | 0.49504              | 0.4950           |
| 63 Di-n-butylphthalate            | 149       | 18.583 | 18.583 | (1.078) | 68478    | 0.47836              | 0.4784           |
| 64 Fluoranthene                   | 202       | 19.705 | 19.705 | (0.881) | 71411    | 0.51288              | 0.5129           |
| 65 Pyrene                         | 202       | 20.131 | 20.139 | (0.900) | 75143    | 0.51188              | 0.5119           |
| § 66 Terphenyl-d14                | 244       | 20.464 | 20.471 | (0.915) | 58216    | 0.51507              | 0.5151           |
| 67 Butylbenzylphthalate           | 149       | 21.431 | 21.439 | (0.958) | 26564    | 0.51187              | 0.5119           |
| 68 Benzo(a)anthracene             | 228       | 22.330 | 22.330 | (0.999) | 67033    | 0.54529              | 0.5453           |
| * 69 Chrysene-d12                 | 240       | 22.361 | 22.361 | (1.000) | 366987   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.314 | 22.322 | (0.998) | 65094    | 1.85418              | 1.854            |
| 71 Chrysene                       | 228       | 22.399 | 22.407 | (1.002) | 62929    | 0.53257              | 0.5326           |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.484 | 22.492 | (0.958) | 37013    | 0.45397              | 0.4540           |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.468 | 23.468 | (1.000) | 534079   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149       | 23.475 | 23.483 | (1.000) | 70363    | 0.50037              | 0.5004           |
| 74 Benzo(b)fluoranthene           | 252       | 24.095 | 24.103 | (0.975) | 73828    | 0.51526              | 0.5153           |
| 75 Benzo(k)fluoranthene           | 252       | 24.126 | 24.134 | (0.976) | 82321    | 0.53255              | 0.5325           |
| 76 Benzo(a)pyrene                 | 252       | 24.614 | 24.621 | (0.996) | 67241    | 0.54699              | 0.5470           |
| * 77 Perylene-d12                 | 264       | 24.706 | 24.707 | (1.000) | 433681   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.784 | 26.784 | (1.084) | 50421    | 0.32584              | 0.3258           |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.792 | 26.792 | (1.084) | 46446    | 0.35340              | 0.3534           |
| 80 Benzo(g,h,i)perylene           | 276       | 27.375 | 27.375 | (1.108) | 31480    | 0.23325              | 0.2332           |
| 90 N-Nitrosodimethylamine         | 74        | 3.988  | 3.988  | (0.487) | 19578    | 0.73328              | 0.7333           |
| 91 Aniline                        | 93        | 7.680  | 7.681  | (0.938) | 55676    | 0.90344              | 0.9034           |
| 93 Benzidine                      | 184       | 19.999 | 19.992 | (0.894) | 44776    | 0.75309              | 0.7531           |
| 103 Pyridine                      | 79        | 4.019  | 3.996  | (0.491) | 26398    | 0.33418              | 0.3342           |
| 105 1-methylnaphthalene           | 142       | 12.297 | 12.297 | (1.156) | 42635    | 0.51118              | 0.5112           |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.661 | 15.669 | (1.100) | 51044    | 0.57119              | 0.5712           |

| Compounds                     | QUANT SIG |  | CONCENTRATIONS |        |         |          |                      |                  |
|-------------------------------|-----------|--|----------------|--------|---------|----------|----------------------|------------------|
|                               | MASS      |  | RT             | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| =====                         | =====     |  | =====          | =====  | =====   | =====    | =====                | =====            |
| 187 Total Benzofluoranthenes  | 252       |  | 24.095         | 24.134 | (0.975) | 147811   | 1.05456              | 1.055            |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 14.989         | 14.981 | (1.053) | 10135    | 0.34010              | 0.3401           |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023  
 Lab File ID: NT1423022825.D Calibration Time: 13:39  
 Lab Smp Id: SLB0374-LCV2  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 125853   | 62927      | 251706  | 130297 | 3.53   |
| 27 Naphthalene-d8     | 454961   | 227481     | 909922  | 458645 | 0.81   |
| 42 Acenaphthene-d10   | 273779   | 136890     | 547558  | 264644 | -3.34  |
| 59 Phenanthrene-d10   | 520384   | 260192     | 1040768 | 503378 | -3.27  |
| 69 Chrysene-d12       | 399183   | 199592     | 798366  | 366987 | -8.07  |
| 134 Di-n-octylphthala | 602810   | 301405     | 1205620 | 534079 | -11.40 |
| 77 Perylene-d12       | 478887   | 239444     | 957774  | 433681 | -9.44  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.19     | 7.69     | 8.69  | 8.19   | -0.00 |
| 27 Naphthalene-d8     | 10.65    | 10.15    | 11.15 | 10.64  | -0.07 |
| 42 Acenaphthene-d10   | 14.23    | 13.73    | 14.73 | 14.23  | -0.00 |
| 59 Phenanthrene-d10   | 17.24    | 16.74    | 17.74 | 17.24  | -0.00 |
| 69 Chrysene-d12       | 22.36    | 21.86    | 22.86 | 22.36  | -0.00 |
| 134 Di-n-octylphthala | 23.47    | 22.97    | 23.97 | 23.47  | -0.00 |
| 77 Perylene-d12       | 24.71    | 24.21    | 25.21 | 24.71  | -0.00 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022825.D

Lab ID: SLB0374-LCV2  
nt14.i, ABN.m, 01-MAR-2023 16:04

RT CO-ELUTION COMPOUNDS

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13.915 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND     |
|-------|---------|--------|--------------|
| 1.001 | 0.973   | 0.0276 | Benzoic acid |

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RRT check based on Ccal File: NT1423022821.D

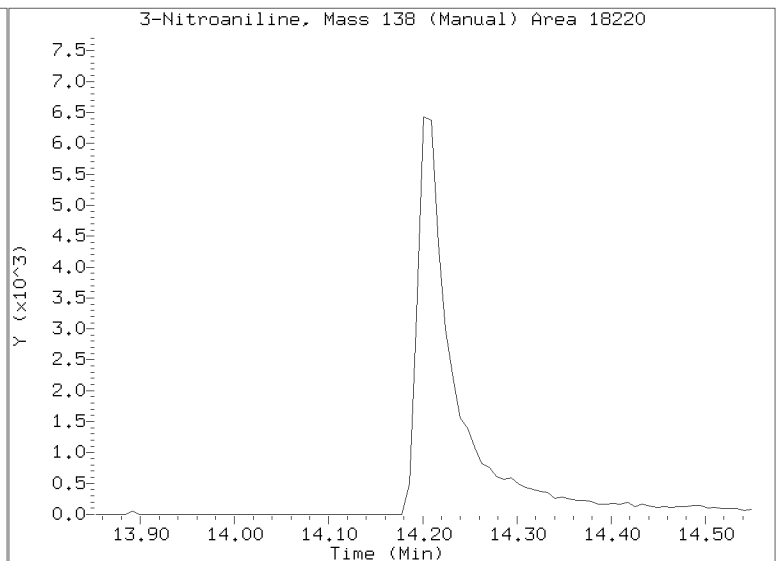
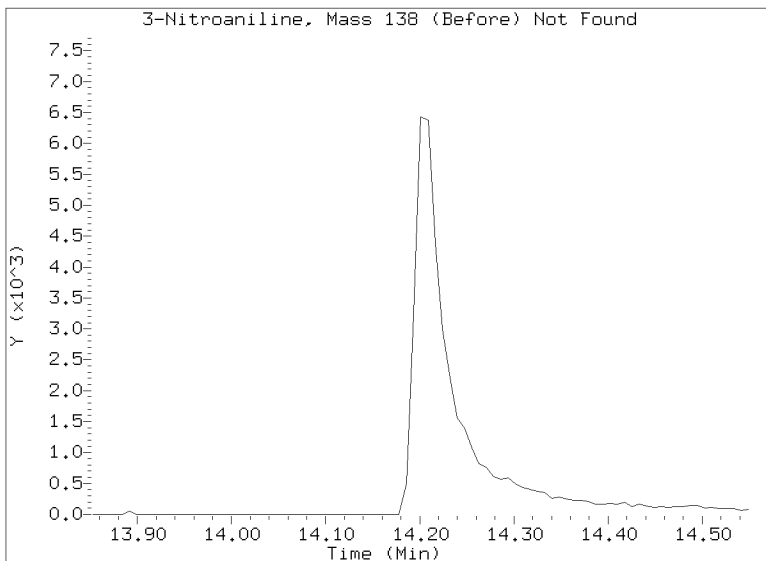
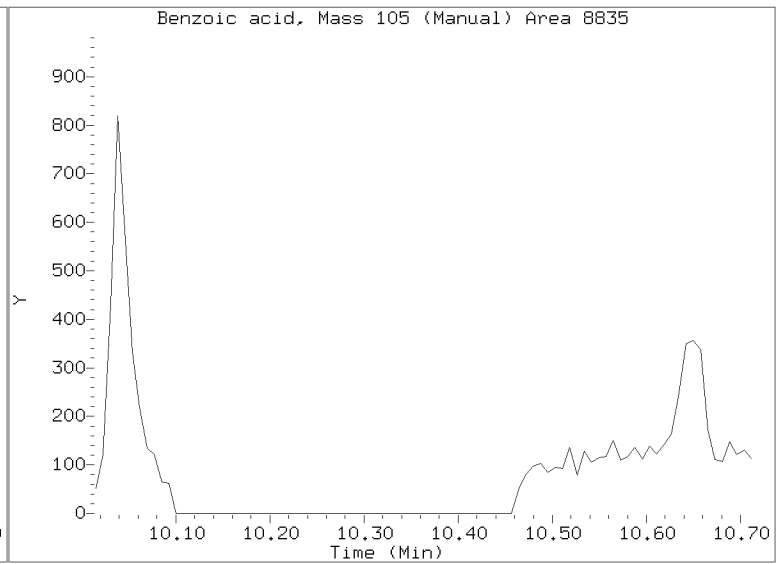
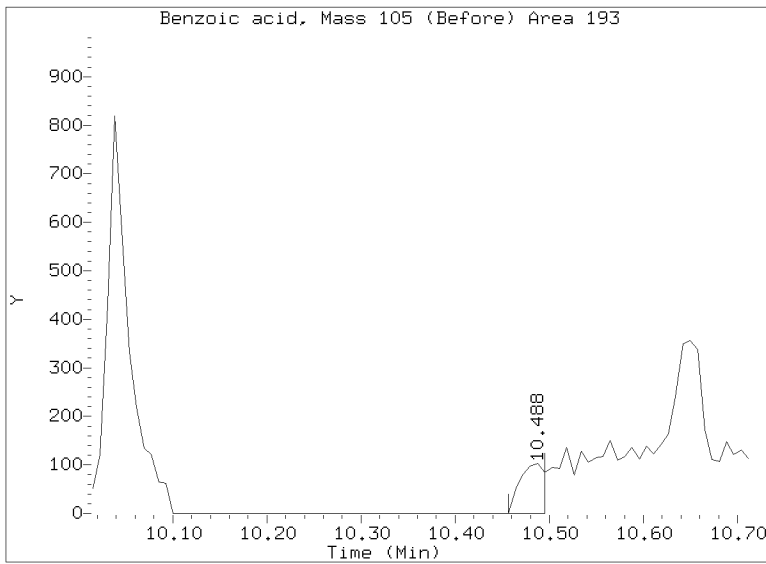
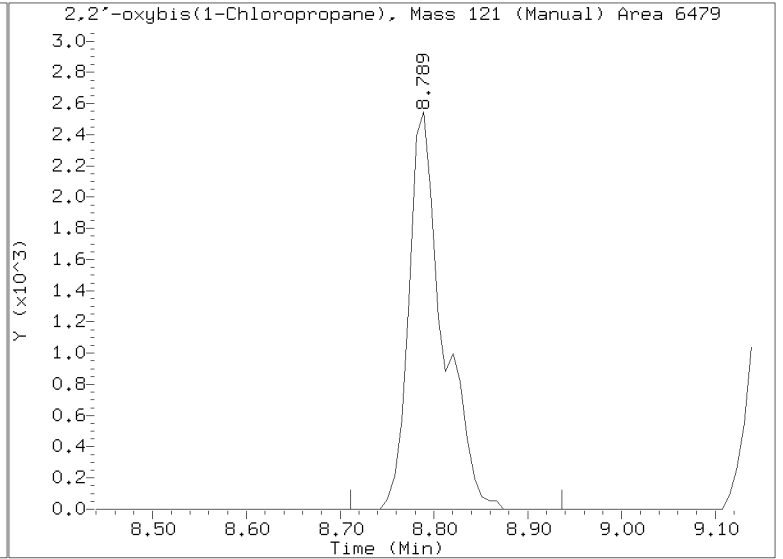
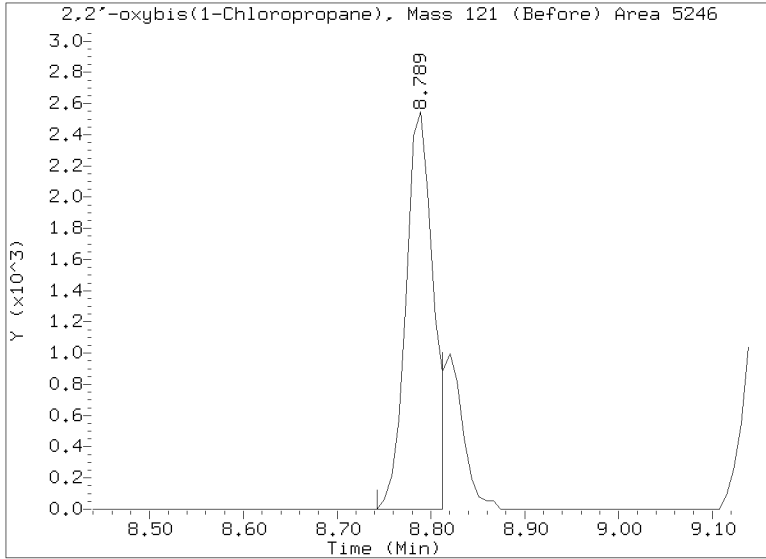
On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*



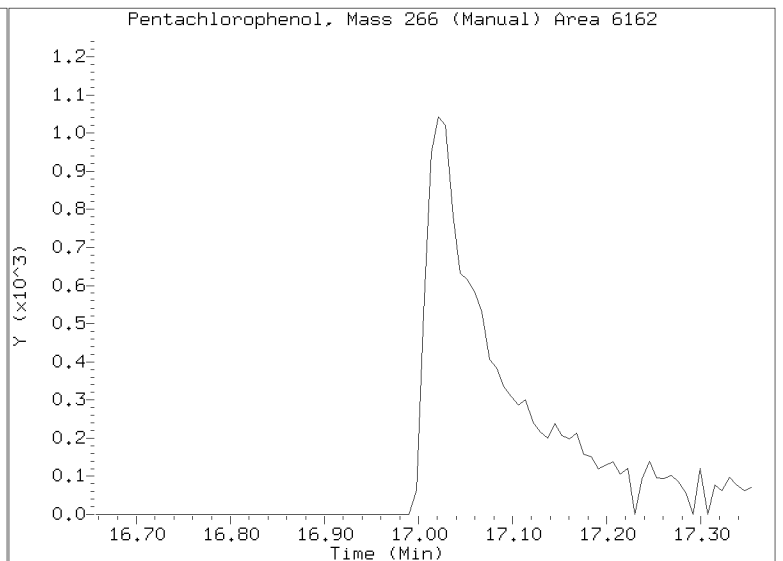
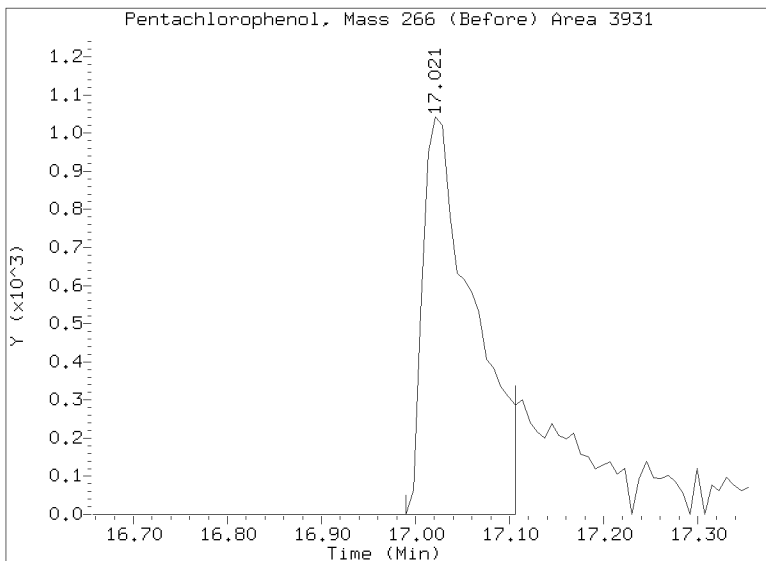
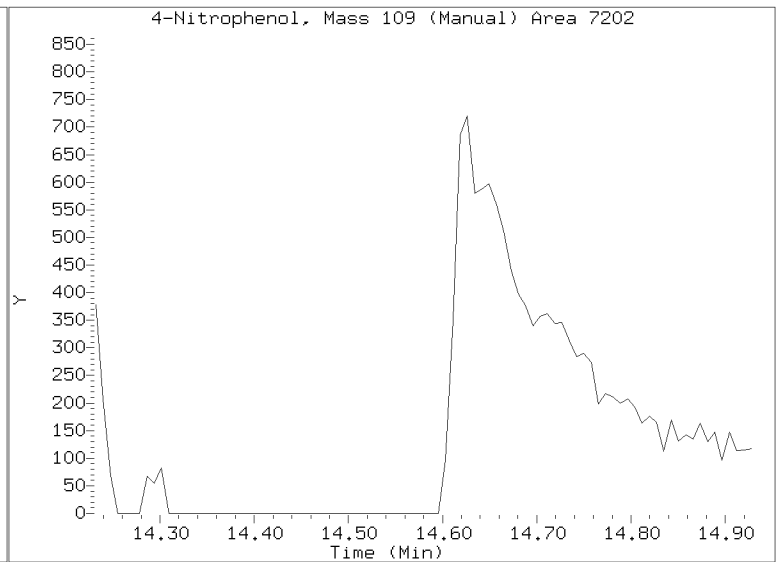
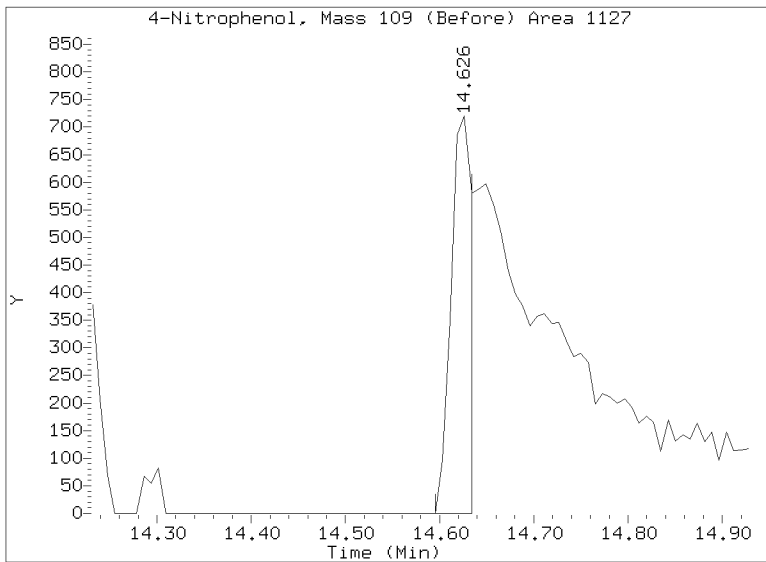
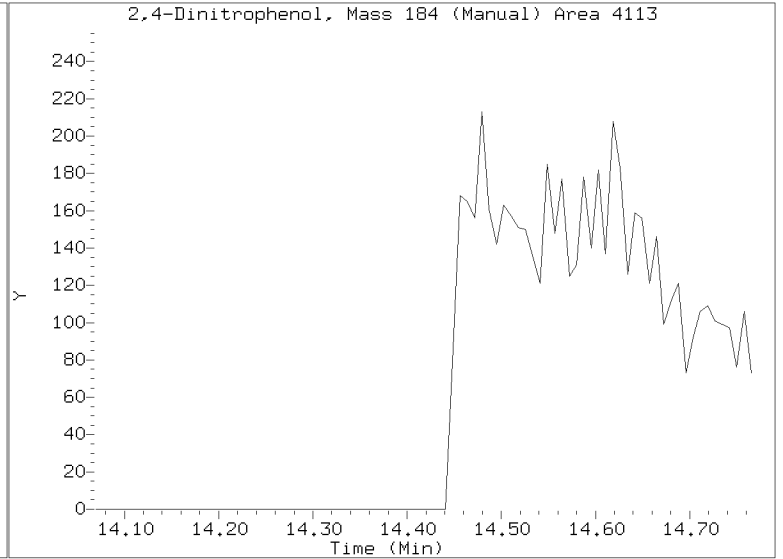
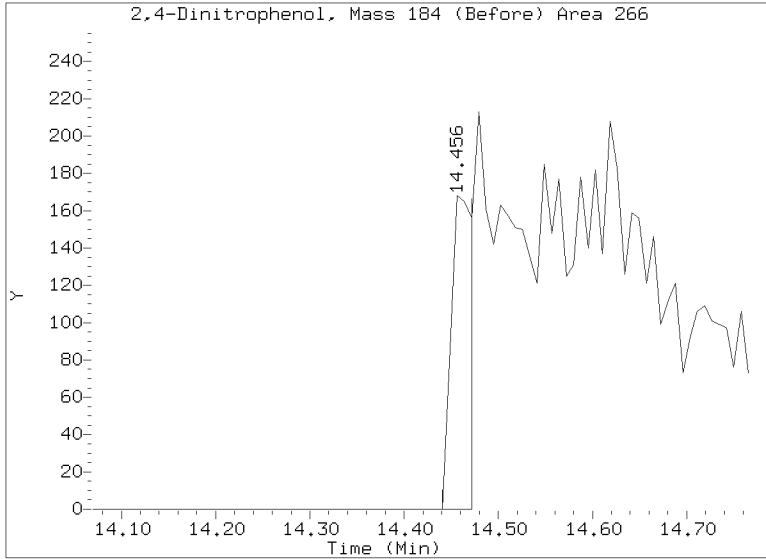
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022825.D  
Injection Date: 01-MAR-2023 16:04  
Lab ID: SLB0374-LCV2 Client ID:  
Report Date: 03/11/2023 09:11



# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022825.D  
Injection Date: 01-MAR-2023 16:04  
Lab ID:SLB0374-LCV2 Client ID:  
Report Date: 03/11/2023 09:11





LOW-CONCENTRATION  
CONTINUING CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022838.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-LCV3

Injection Time: 23:52

Sequence Name: ABN 0.2

| COMPOUND                     | TYPE | CONC. (ug/mL) |       | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|------------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|---------|
|                              |      | STD           | CCV   | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| Phenol                       | A    | 0.20000       | 0.2   | 1.8373500             | 2.1399280 |     | 16.5         | +/-50   |
| bis(2-chloroethyl) ether     | A    | 0.20000       | 0.2   | 1.5312550             | 1.4461430 |     | 11.5         | +/-50   |
| 2-Chlorophenol               | A    | 0.20000       | 0.2   | 1.3533690             | 1.2261880 |     | -9.4         | +/-50   |
| 1,3-Dichlorobenzene          | A    | 0.20000       | 0.2   | 1.4914740             | 1.5610170 |     | 4.7          | +/-50   |
| 1,4-Dichlorobenzene          | A    | 0.20000       | 0.2   | 1.4740600             | 1.5762280 |     | 6.9          | +/-50   |
| 1,2-Dichlorobenzene          | A    | 0.20000       | 0.2   | 1.4134490             | 1.5055910 |     | 6.5          | +/-50   |
| Benzyl Alcohol               | A    | 0.20000       | 0.09  | 0.6439892             | 0.3773156 |     | -52.9        | +/-50 * |
| 2,2'-Oxybis(1-chloropropane) | A    | 0.20000       | 0.2   | 0.3811859             | 0.4003951 |     | 5.0          | +/-50   |
| 2-Methylphenol               | A    | 0.20000       | 0.2   | 1.1607310             | 0.9971413 |     | -14.1        | +/-50   |
| Hexachloroethane             | A    | 0.20000       | 0.1   | 0.5535732             | 0.4072141 |     | -26.4        | +/-50   |
| N-Nitroso-di-n-Propylamine   | A    | 0.20000       | 0.2   | 0.8837751             | 0.9209088 |     | 4.2          | +/-50   |
| 4-Methylphenol               | A    | 0.20000       | 0.1   | 1.1353050             | 0.7569042 |     | -44.1        | +/-50   |
| Nitrobenzene                 | A    | 0.20000       | 0.2   | 0.3760061             | 0.3757856 |     | -0.06        | +/-50   |
| Isophorone                   | A    | 0.20000       | 0.2   | 0.4996273             | 0.4638919 |     | -21.1        | +/-50   |
| 2-Nitrophenol                | A    | 0.20000       | 0.2   | 0.1467597             | 0.1504821 |     | -22.7        | +/-50   |
| 2,4-Dimethylphenol           | A    | 0.40000       | 0.4   | 0.3427845             | 0.3450669 |     | 0.7          | +/-50   |
| Bis(2-Chloroethoxy)methane   | A    | 0.20000       | 0.2   | 0.3780235             | 0.3464991 |     | -8.3         | +/-50   |
| 2,4-Dichlorophenol           | A    | 0.40000       | 0.3   | 0.2946235             | 0.2777030 |     | -20.2        | +/-50   |
| 1,2,4-Trichlorobenzene       | A    | 0.20000       | 0.2   | 0.3874001             | 0.3862062 |     | -0.3         | +/-50   |
| Naphthalene                  | A    | 0.20000       | 0.2   | 1.0669580             | 1.1499760 |     | 7.8          | +/-50   |
| Benzoic acid                 | A    | 0.80000       | 0.08  | 0.1358415             | 0.0138777 |     | -89.8        | +/-50 * |
| 4-Chloroaniline              | A    | 0.40000       | 0.3   | 0.4563565             | 0.3966022 |     | -13.1        | +/-50   |
| Hexachlorobutadiene          | A    | 0.20000       | 0.2   | 0.2363916             | 0.2101416 |     | -11.1        | +/-50   |
| 4-Chloro-3-Methylphenol      | A    | 0.40000       | 0.3   | 0.3085482             | 0.2512563 |     | -18.6        | +/-50   |
| 2-Methylnaphthalene          | A    | 0.20000       | 0.2   | 0.7901196             | 0.7605102 |     | -3.7         | +/-50   |
| Hexachlorocyclopentadiene    | A    | 0.40000       | 0.003 | 0.3443795             | 0.0029889 |     | -99.3        | +/-50 * |
| 2,4,6-Trichlorophenol        | A    | 0.40000       | 0.3   | 0.3907367             | 0.3087776 |     | -21.0        | +/-50   |
| 2,4,5-Trichlorophenol        | A    | 0.40000       | 0.3   | 0.4224702             | 0.3656103 |     | -13.5        | +/-50   |
| 2-Chloronaphthalene          | A    | 0.20000       | 0.2   | 1.2480280             | 1.2292210 |     | -1.5         | +/-50   |
| 2-Nitroaniline               | A    | 0.40000       | 0.3   | 0.3254949             | 0.2691750 |     | -17.3        | +/-50   |
| Acenaphthylene               | A    | 0.20000       | 0.2   | 1.8312950             | 2.0196040 |     | 10.3         | +/-50   |
| Dimethylphthalate            | A    | 0.20000       | 0.2   | 1.2581570             | 1.3180960 |     | 4.8          | +/-50   |
| 2,6-Dinitrotoluene           | A    | 0.40000       | 0.4   | 0.2948315             | 0.2675047 |     | -9.3         | +/-50   |
| Acenaphthene                 | A    | 0.20000       | 0.2   | 1.1724930             | 1.2451320 |     | 6.2          | +/-50   |

\* Values outside of QC limits



LOW-CONCENTRATION  
CONTINUING CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022838.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-LCV3

Injection Time: 23:52

Sequence Name: ABN 0.2

| COMPOUND                   | TYPE | CONC. (ug/mL) |       | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|----------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|---------|
|                            |      | STD           | CCV   | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| 3-Nitroaniline             | A    | 0.40000       | 0.3   | 0.3021810             | 0.2213090 |     | -26.8        | +/-50   |
| 2,4-Dinitrophenol          | A    | 0.80000       | 0.0   | 0.1437811             |           |     |              | +/-50 * |
| Dibenzofuran               | A    | 0.20000       | 0.2   | 1.8656210             | 1.8476550 |     | -1.0         | +/-50   |
| 4-Nitrophenol              | A    | 0.40000       | 0.2   | 0.1323756             | 0.0774911 |     | -48.1        | +/-50   |
| 2,4-Dinitrotoluene         | A    | 0.40000       | 0.3   | 0.4244424             | 0.2823173 |     | -33.5        | +/-50   |
| Fluorene                   | A    | 0.20000       | 0.2   | 1.5719010             | 1.6724540 |     | 6.4          | +/-50   |
| 4-Chlorophenylphenyl ether | A    | 0.20000       | 0.2   | 0.8363665             | 0.8224693 |     | -1.7         | +/-50   |
| Diethyl phthalate          | A    | 0.20000       | 0.2   | 1.1765440             | 1.2482970 |     | 6.1          | +/-50   |
| 4-Nitroaniline             | A    | 0.40000       | 0.3   | 0.2995450             | 0.2020571 |     | -32.5        | +/-50   |
| 4,6-Dinitro-2-methylphenol | A    | 0.80000       | 0.1   | 0.0975169             | 0.0231627 |     | -82.6        | +/-50 * |
| N-Nitrosodiphenylamine     | A    | 0.20000       | 0.2   | 0.5026629             | 0.5295633 |     | 5.4          | +/-50   |
| 4-Bromophenyl phenyl ether | A    | 0.20000       | 0.2   | 0.2209900             | 0.2150976 |     | -2.7         | +/-50   |
| Hexachlorobenzene          | A    | 0.20000       | 0.2   | 0.2429692             | 0.2588081 |     | 6.5          | +/-50   |
| Pentachlorophenol          | A    | 0.40000       | 0.1   | 0.0938263             | 0.0320751 |     | -71.9        | +/-50 * |
| Phenanthrene               | A    | 0.20000       | 0.2   | 1.0640870             | 1.0663240 |     | 0.2          | +/-50   |
| Anthracene                 | A    | 0.20000       | 0.2   | 1.0059580             | 1.0114340 |     | 0.5          | +/-50   |
| Carbazole                  | A    | 0.20000       | 0.2   | 0.8816605             | 0.8089071 |     | -8.3         | +/-50   |
| Di-n-Butylphthalate        | A    | 0.20000       | 0.2   | 0.9469101             | 1.0421890 |     | -8.5         | +/-50   |
| Fluoranthene               | A    | 0.20000       | 0.2   | 1.5175930             | 1.3936650 |     | -8.2         | +/-50   |
| Pyrene                     | A    | 0.20000       | 0.2   | 1.6000330             | 1.4677550 |     | -8.3         | +/-50   |
| Butylbenzylphthalate       | A    | 0.20000       | 0.2   | 0.4562763             | 0.5618340 |     | -0.8         | +/-50   |
| Benzo(a)anthracene         | A    | 0.20000       | 0.2   | 1.3399020             | 1.4824900 |     | 10.6         | +/-50   |
| 3,3'-Dichlorobenzidine     | A    | 0.60000       | 0.7   | 0.3826468             | 0.4588018 |     | 19.9         | +/-50   |
| Chrysene                   | A    | 0.20000       | 0.2   | 1.2879040             | 1.3845660 |     | 7.5          | +/-50   |
| bis(2-Ethylhexyl)phthalate | A    | 0.20000       | 0.2   | 0.5161185             | 0.5403132 |     | -11.5        | +/-50   |
| Di-n-Octylphthalate        | A    | 0.20000       | 0.2   | 1.0531830             | 1.0682160 |     | 1.4          | +/-50   |
| Benzofluoranthenes, Total  | A    | 0.40000       | 0.5   | 1.2927770             | 1.5233870 |     | 17.8         | +/-50   |
| Benzo(a)pyrene             | A    | 0.20000       | 0.2   | 1.1338150             | 1.2063920 |     | 6.4          | +/-50   |
| Indeno(1,2,3-cd)pyrene     | A    | 0.20000       | 0.09  | 1.4272450             | 0.6439370 |     | -54.9        | +/-50 * |
| Dibenzo(a,h)anthracene     | A    | 0.20000       | 0.1   | 1.2122070             | 0.5971766 |     | -50.7        | +/-50 * |
| Benzo(g,h,i)perylene       | A    | 0.20000       | 0.07  | 1.2448130             | 0.4444135 |     | -64.3        | +/-50 * |
| 1-Methylnaphthalene        | A    | 0.20000       | 0.2   | 0.7274101             | 0.7078636 |     | -2.7         | +/-50   |
| 2-Fluorophenol             | A    | 0.30000       | 0.307 | 1.0846110             | 1.1114320 |     | 2.5          | +/-50   |
| Phenol-d5                  | A    | 0.30000       | 0.283 | 1.5399100             | 1.4533120 |     | -5.6         | +/-50   |

\* Values outside of QC limits



**LOW-CONCENTRATION  
CONTINUING CALIBRATION CHECK  
EPA 8270E**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT14</u>                      | Calibration:      | <u>GC00033</u>         |
| Lab File ID:   | <u>NT1423022838.D</u>            | Calibration Date: | <u>02/28/2023</u>      |
| Sequence:      | <u>SLB0374</u>                   | Injection Date:   | <u>03/01/23</u>        |
| Lab Sample ID: | <u>SLB0374-LCV3</u>              | Injection Time:   | <u>23:52</u>           |
| Sequence Name: | <u>ABN 0.2</u>                   |                   |                        |

| COMPOUND               | TYPE | CONC. (ug/mL) |       | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|-------|
|                        |      | STD           | CCV   | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| 2-Chlorophenol-d4      | A    | 0.30000       | 0.279 | 1.3093910             | 1.2159890 |     | -7.1         | +/-50 |
| 1,2-Dichlorobenzene-d4 | A    | 0.20000       | 0.192 | 0.9857584             | 0.9455620 |     | -4.1         | +/-50 |
| Nitrobenzene-d5        | A    | 0.20000       | 0.195 | 0.3912861             | 0.3807243 |     | -2.7         | +/-50 |
| 2-Fluorobiphenyl       | A    | 0.20000       | 0.207 | 1.5568580             | 1.6133800 |     | 3.6          | +/-50 |
| 2,4,6-Tribromophenol   | A    | 0.30000       | 0.203 | 0.1850894             | 0.1455760 |     | -32.2        | +/-50 |
| p-Terphenyl-d14        | A    | 0.20000       | 0.181 | 1.2319340             | 1.1139230 |     | -9.6         | +/-50 |

\* Values outside of QC limits

\* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022838.D

Date: 01-MAR-2023 23:52

Client ID:

Sample Info: SLB0374-LCV3

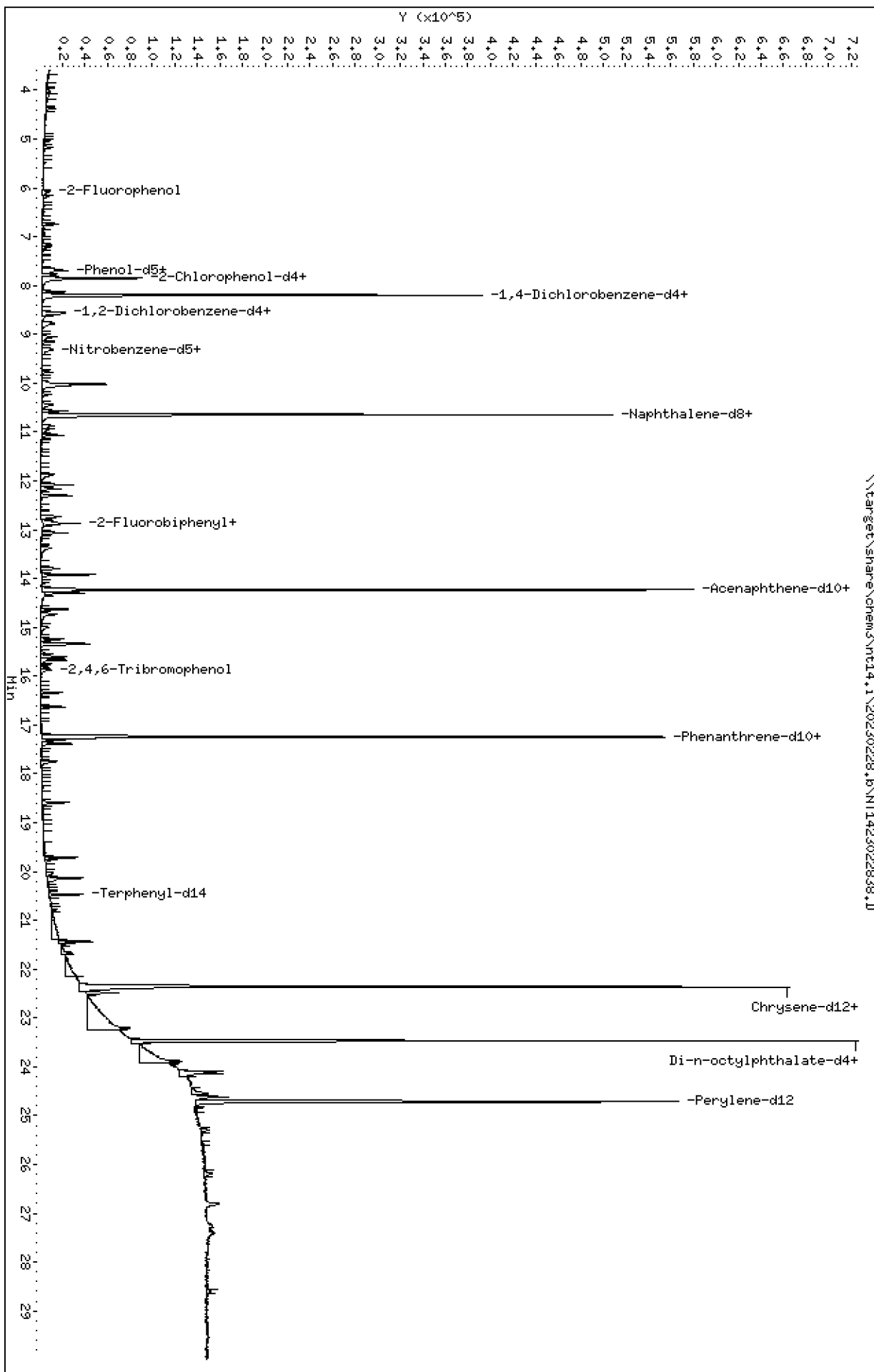
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

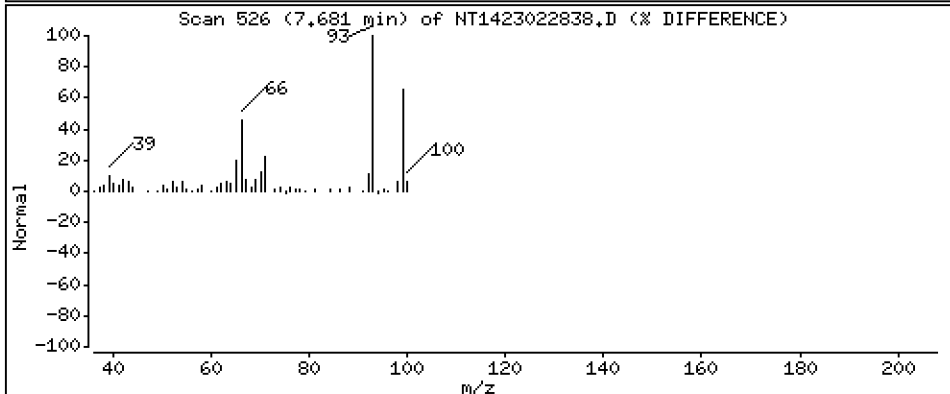
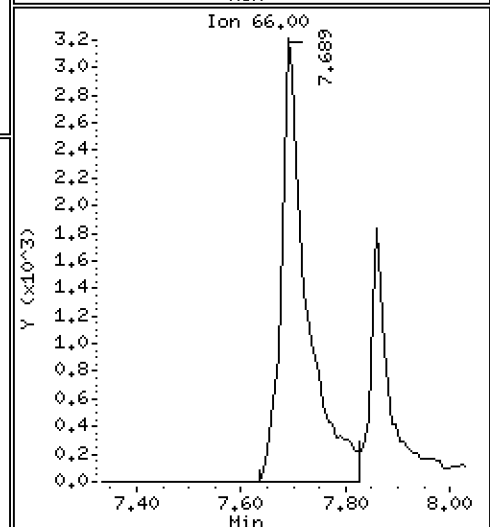
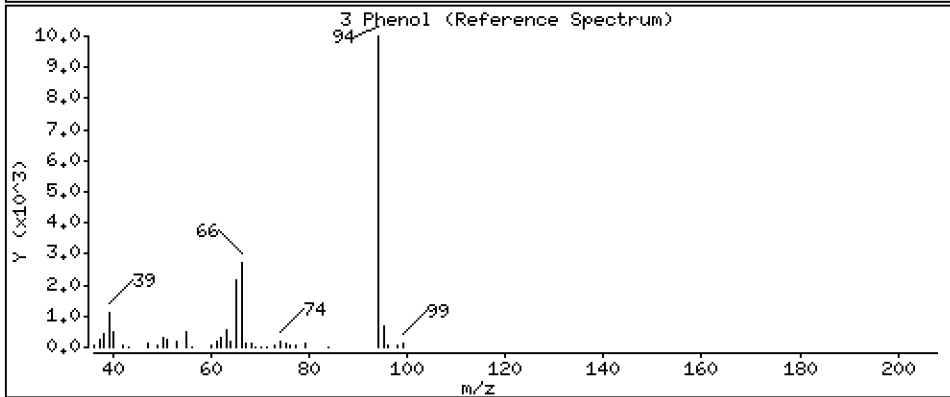
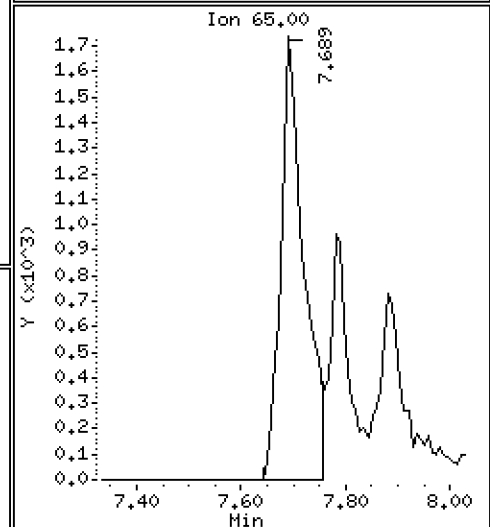
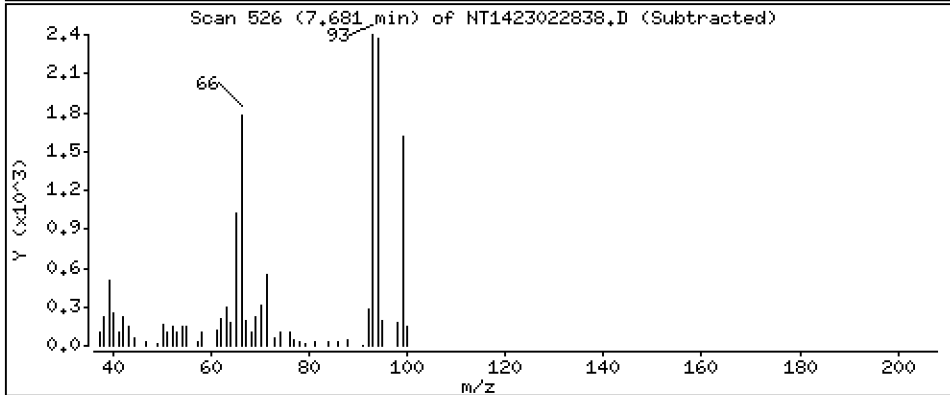
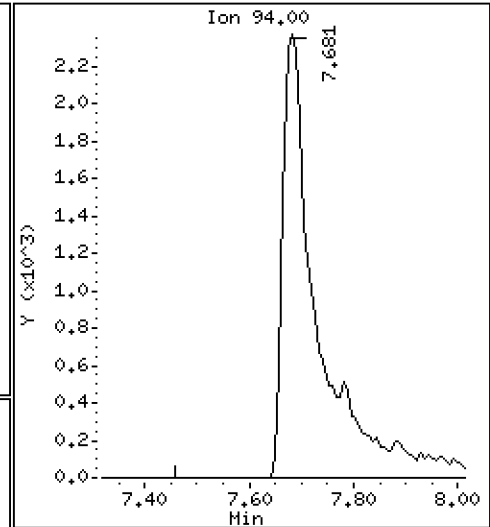
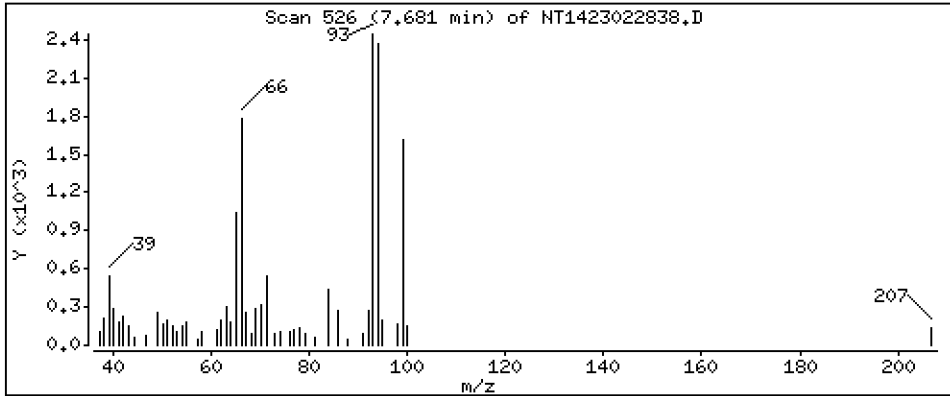
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,2329 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

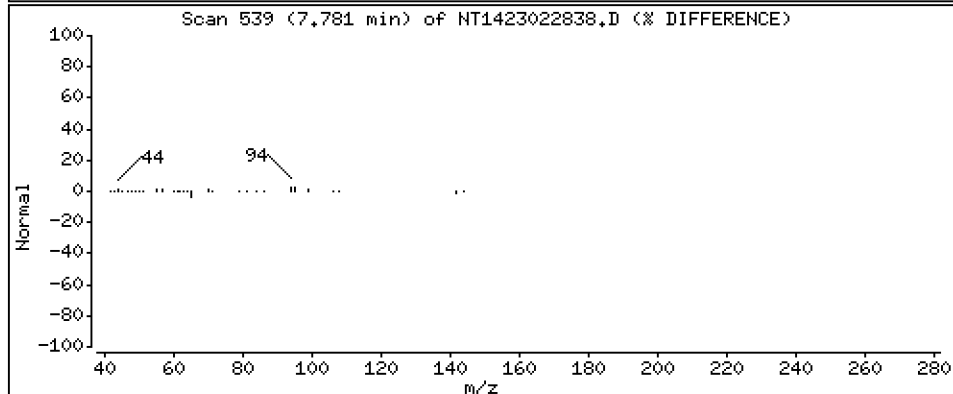
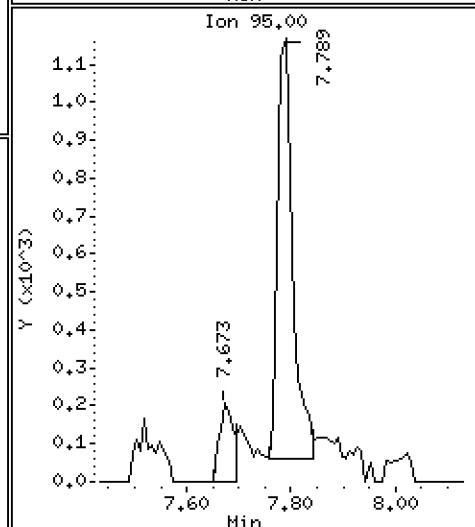
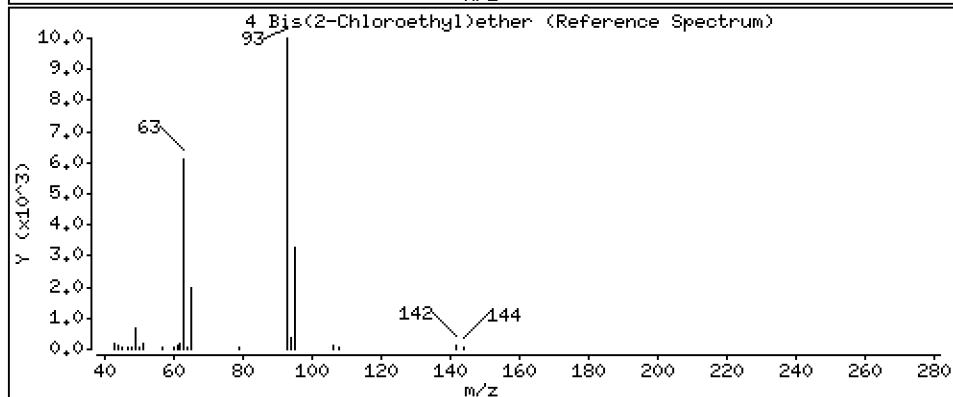
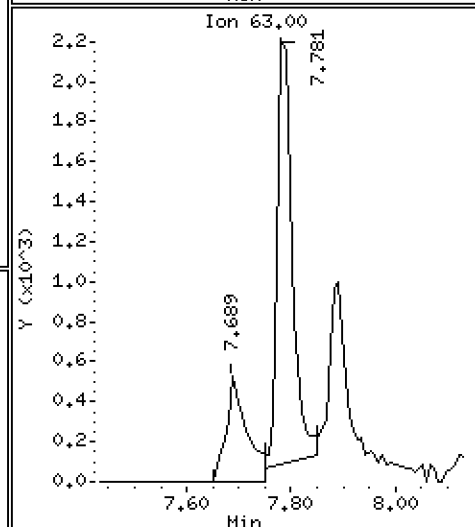
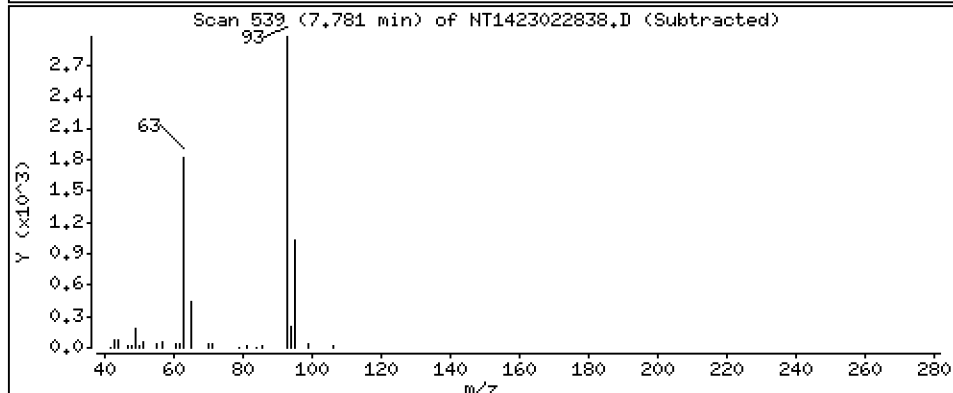
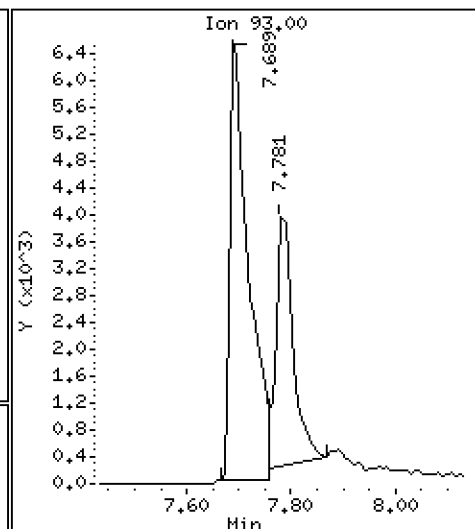
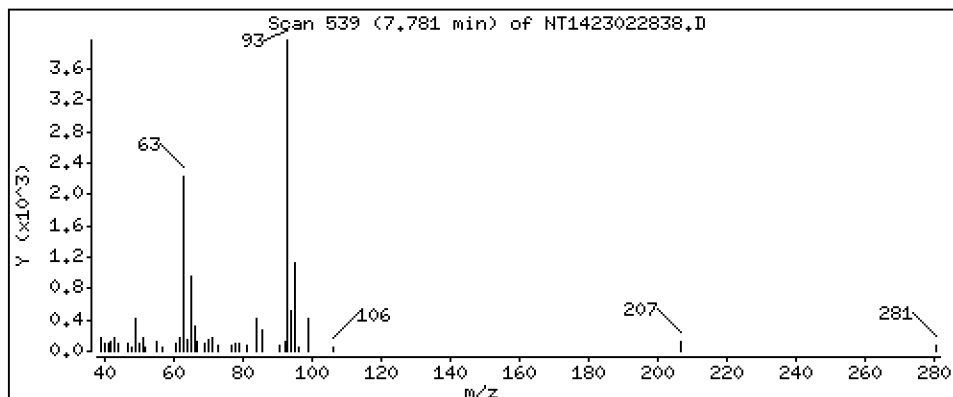
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,2229 ug/mL





Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

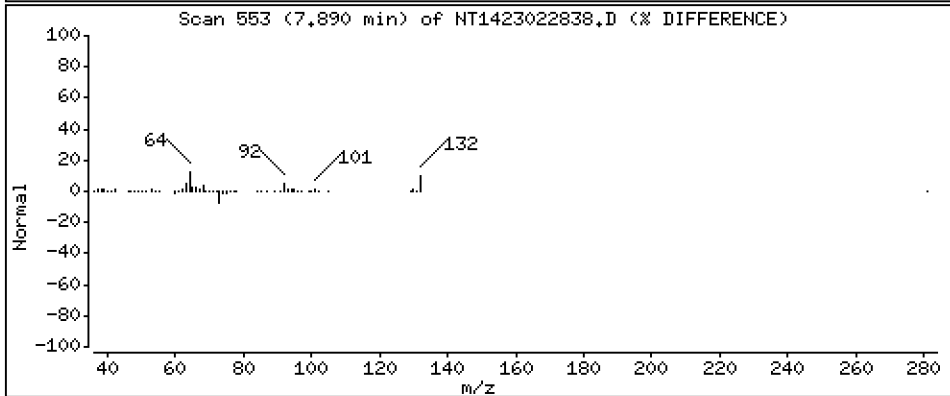
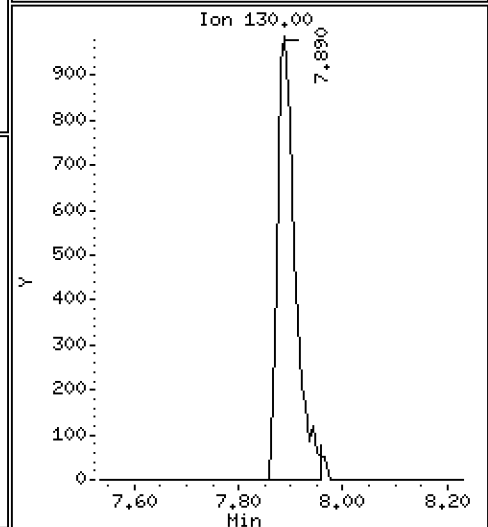
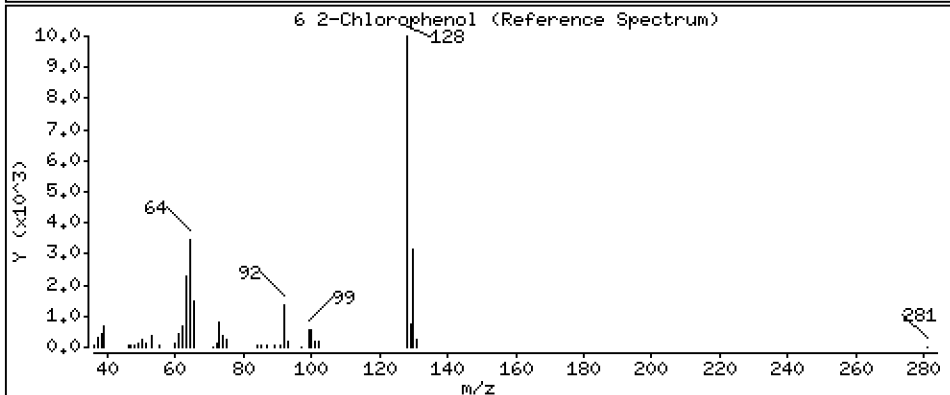
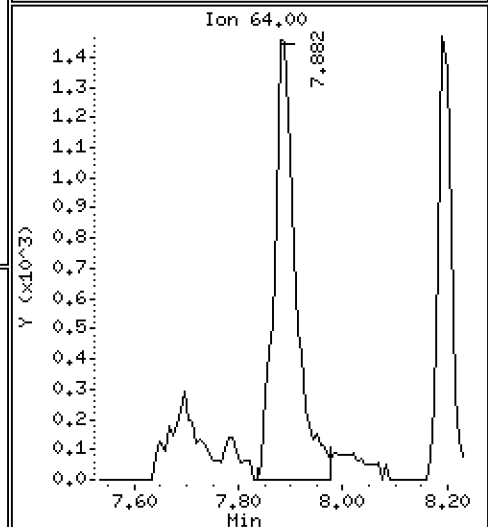
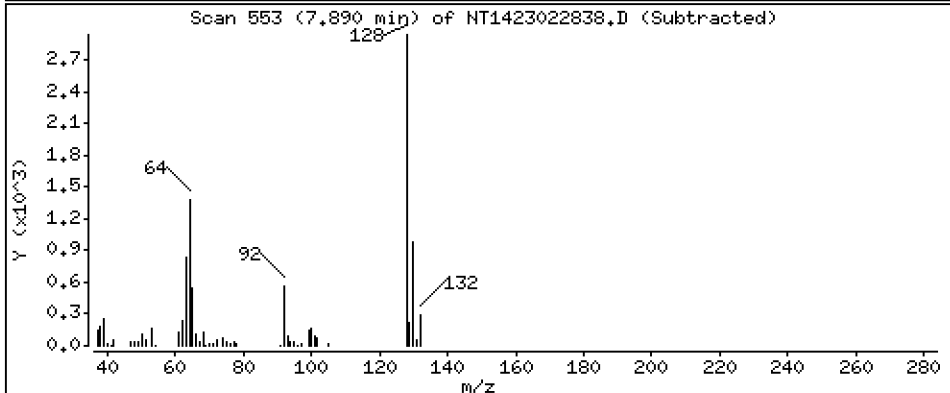
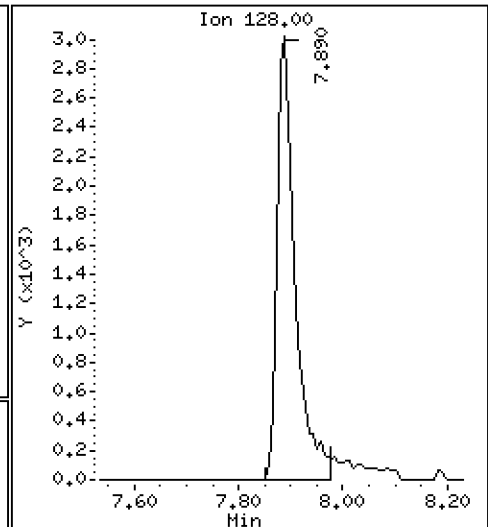
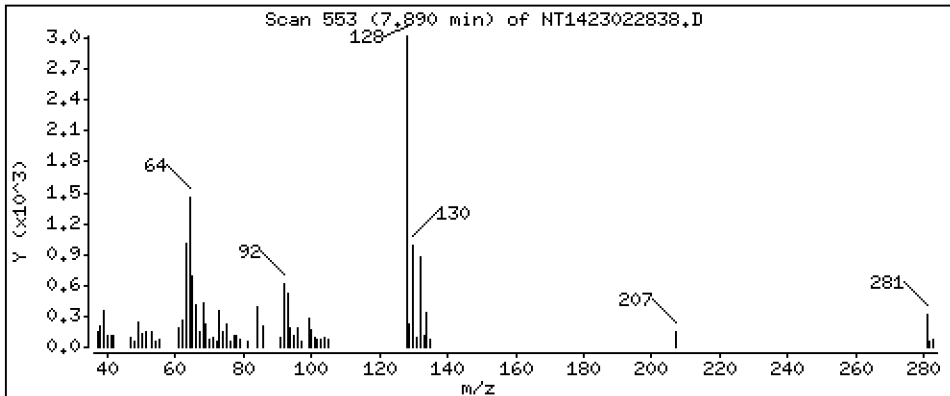
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,1812 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

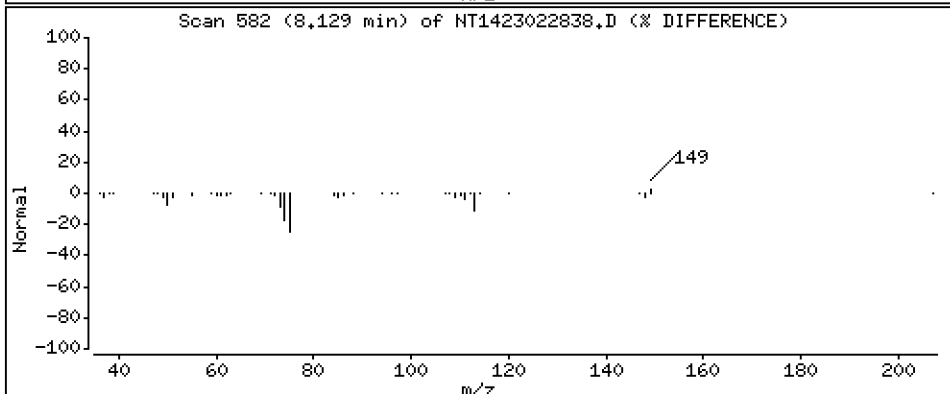
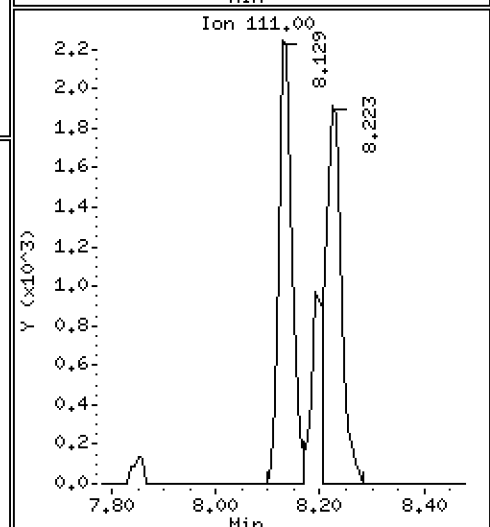
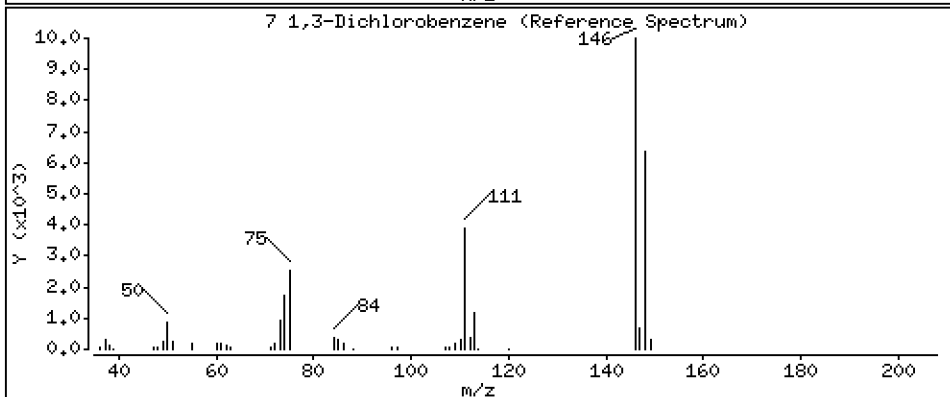
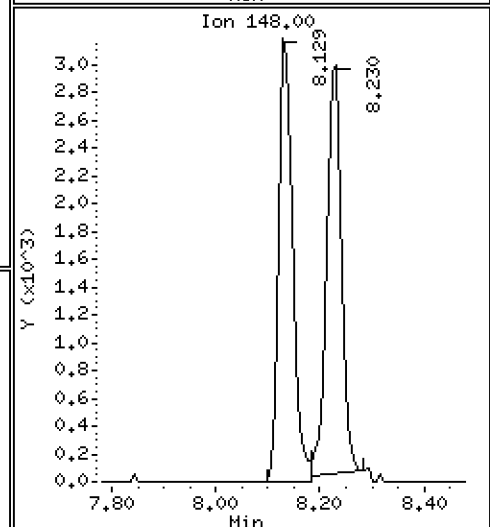
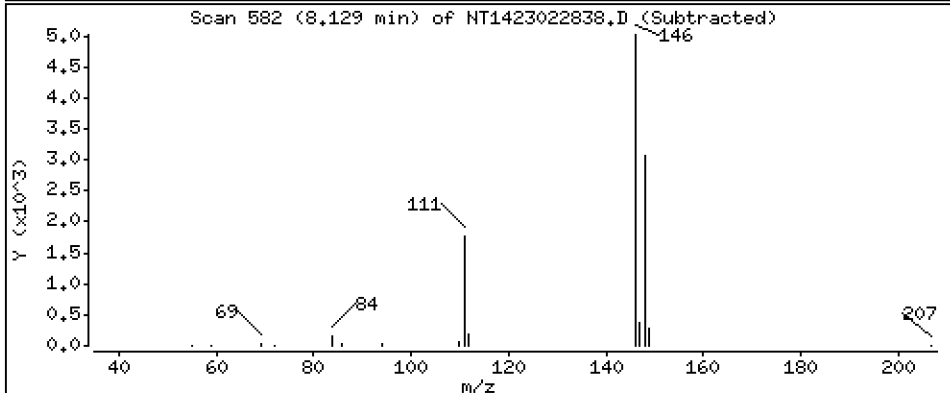
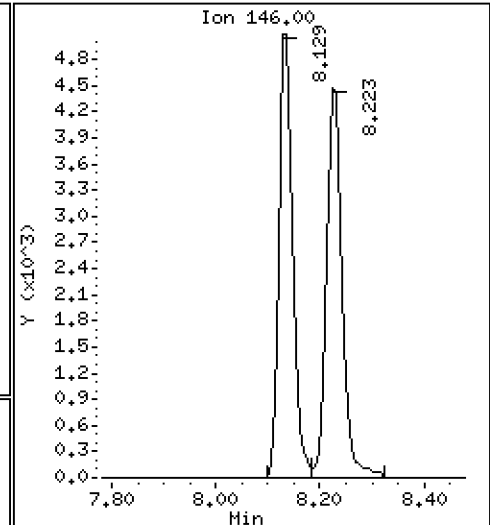
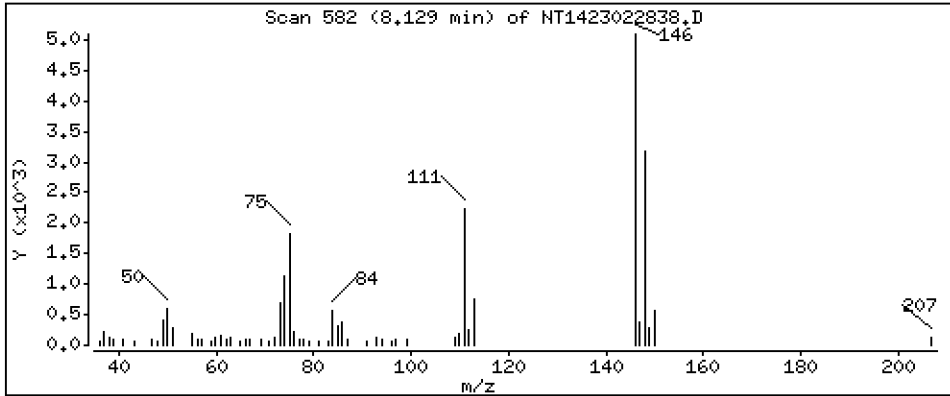
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,2093 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

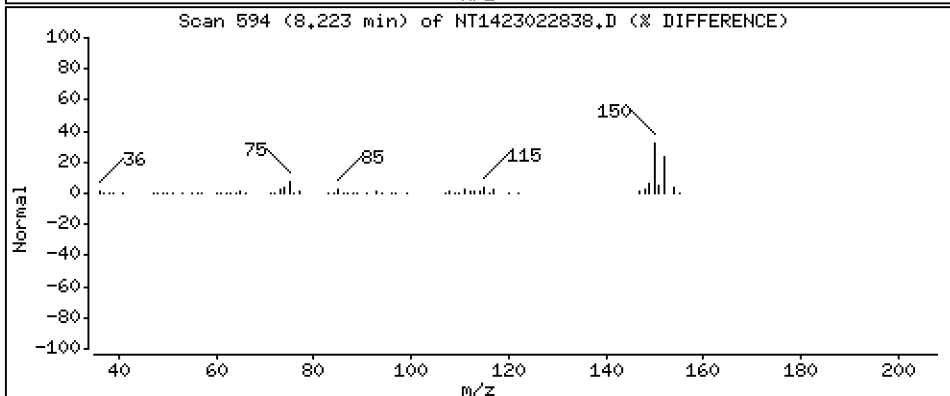
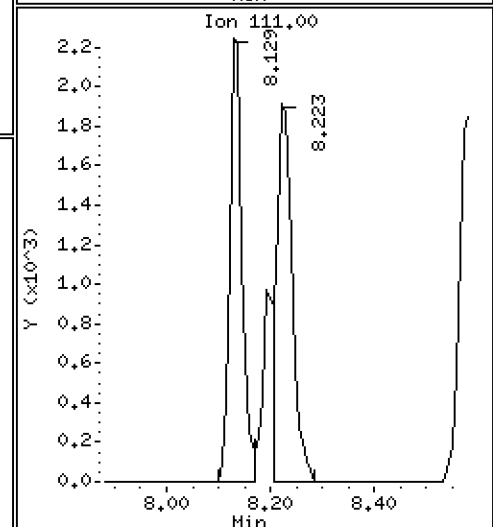
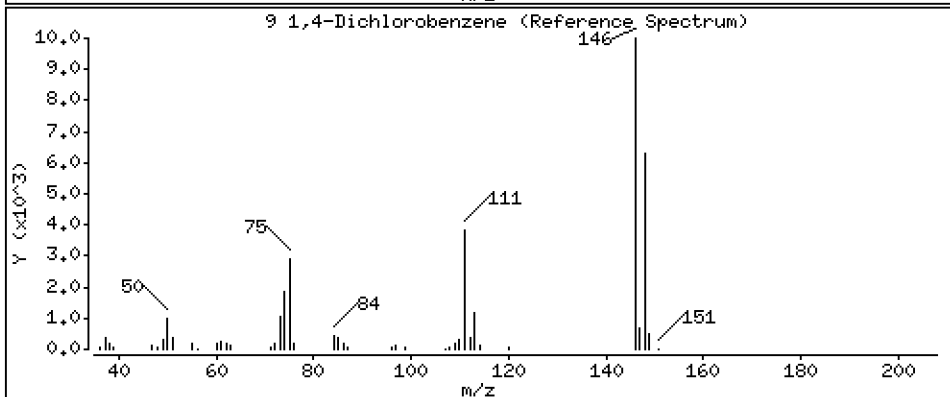
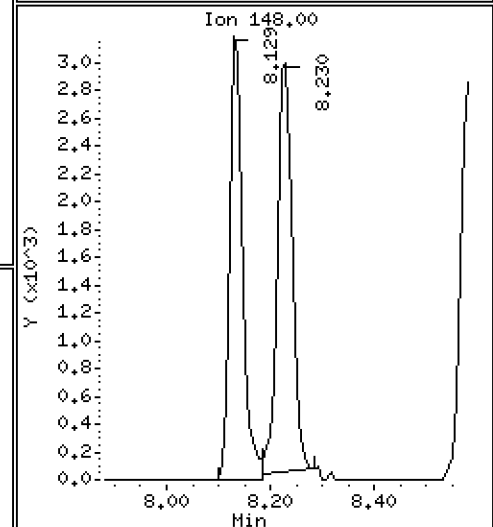
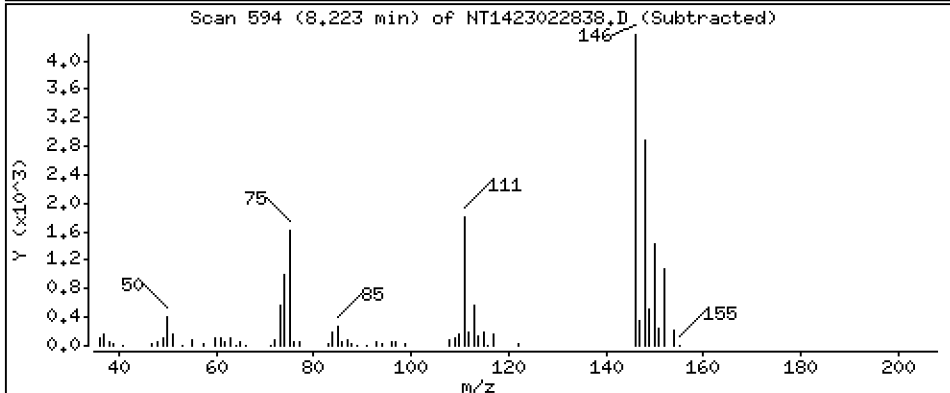
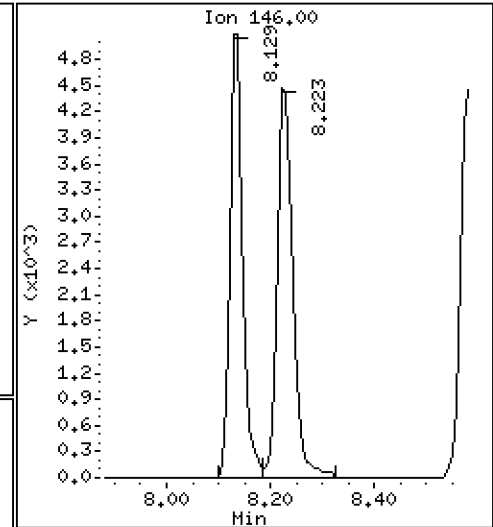
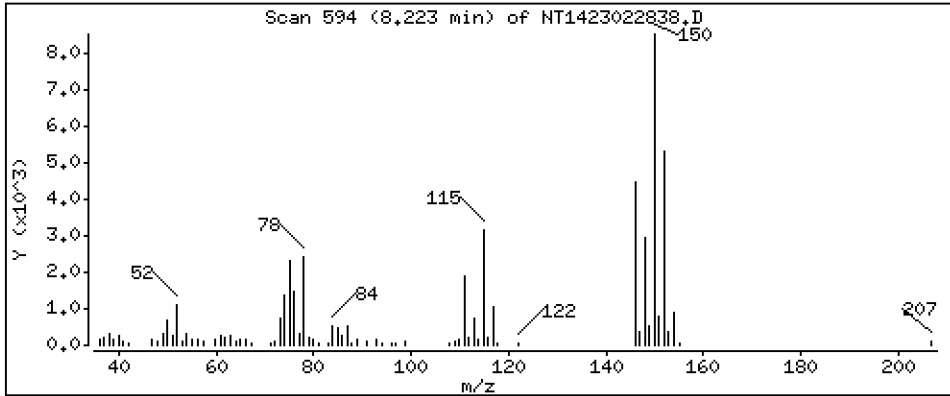
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,2139 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

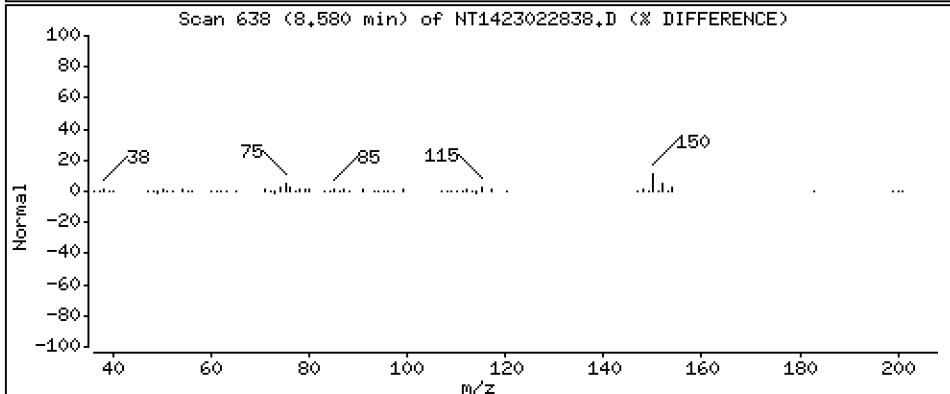
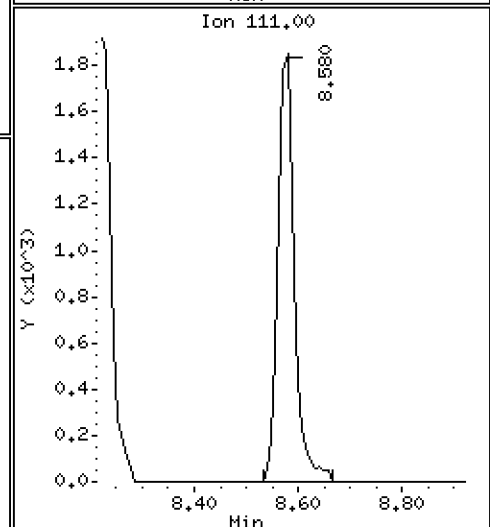
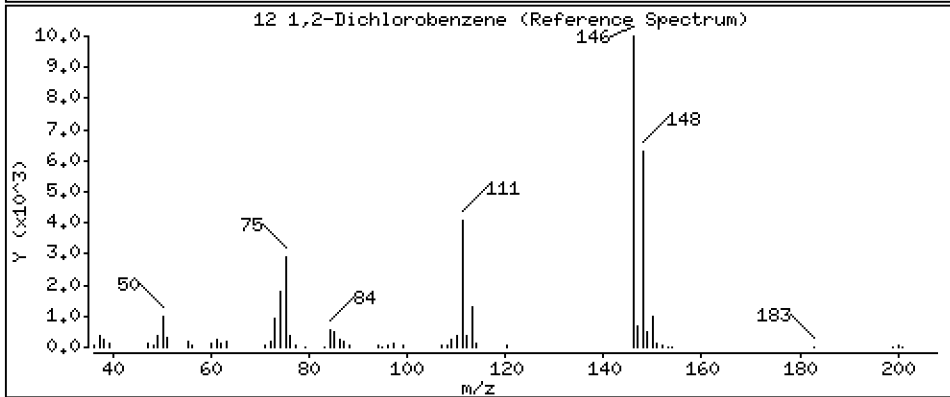
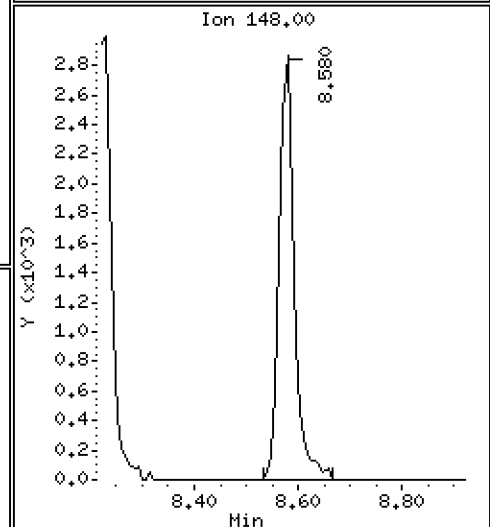
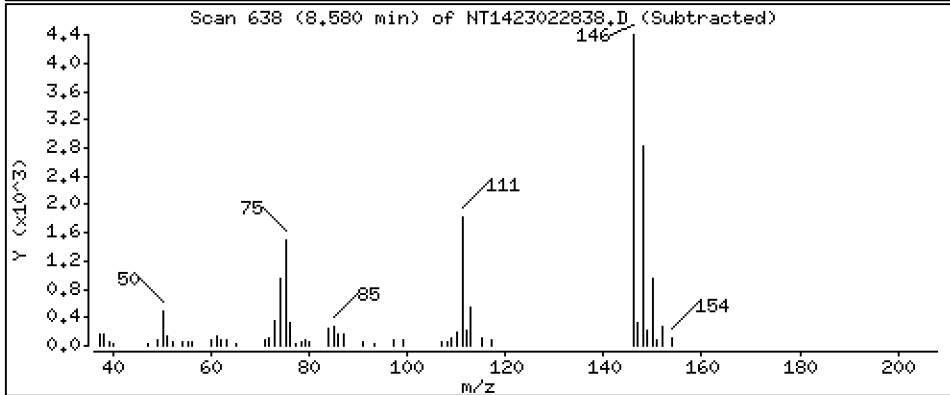
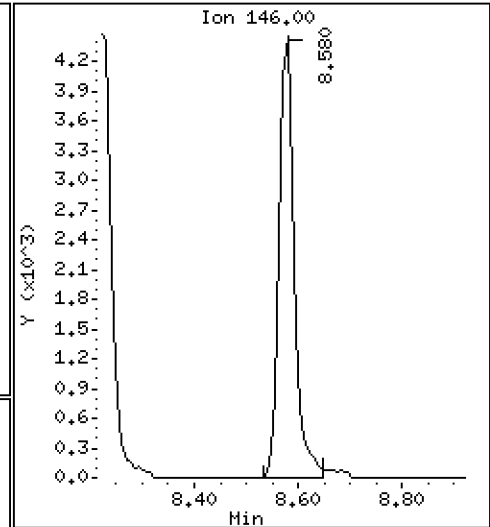
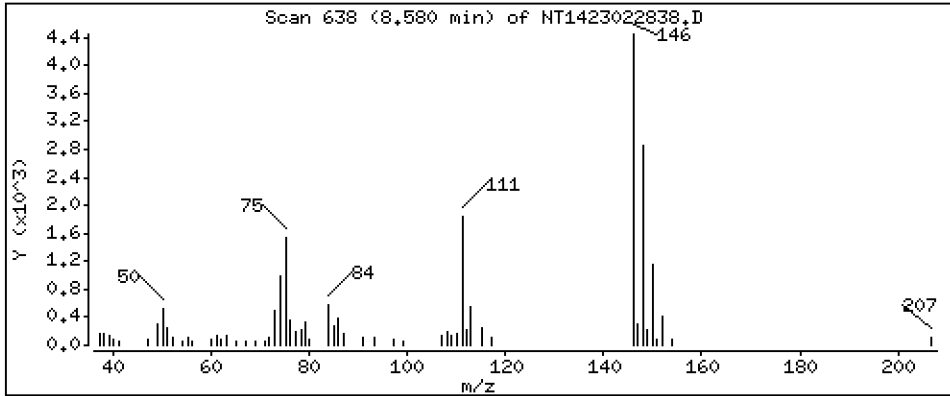
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2130 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

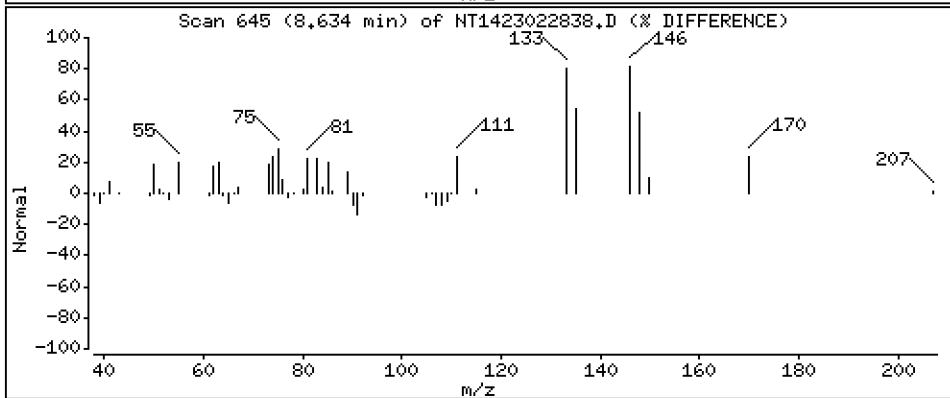
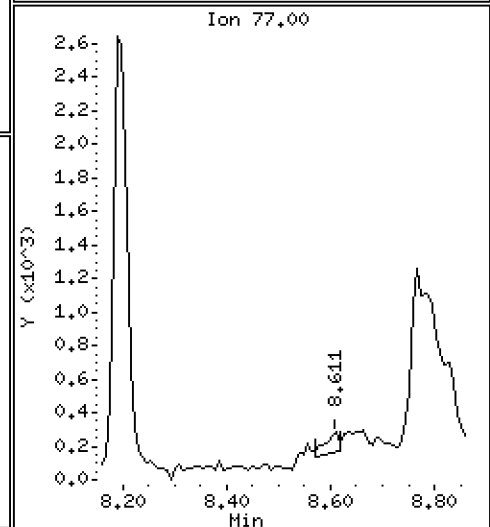
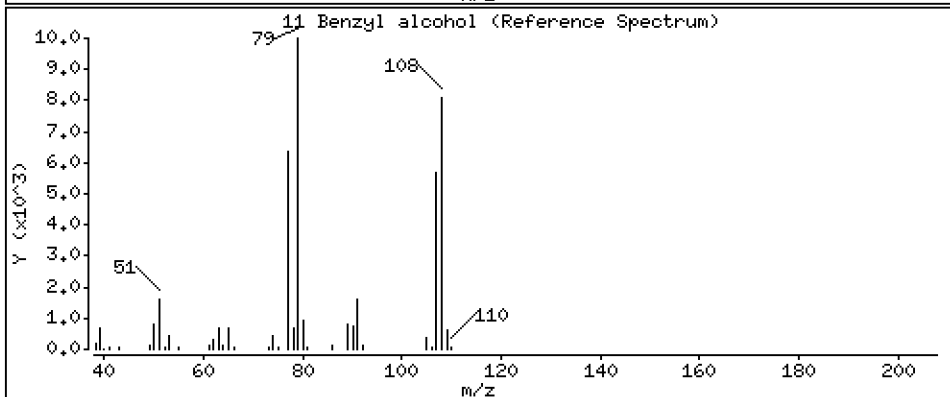
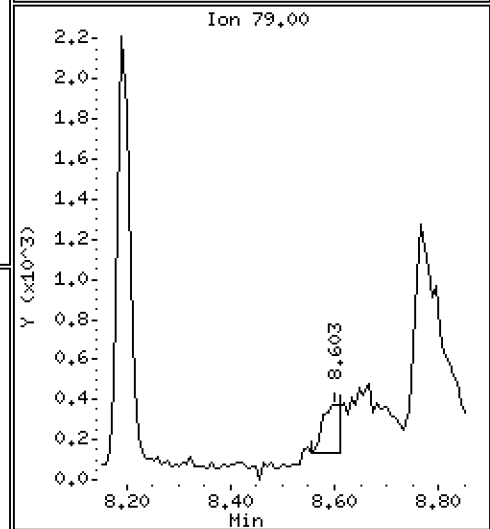
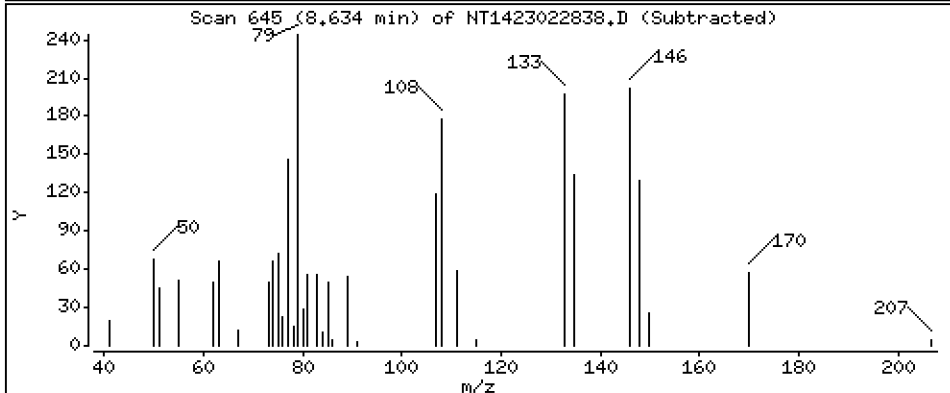
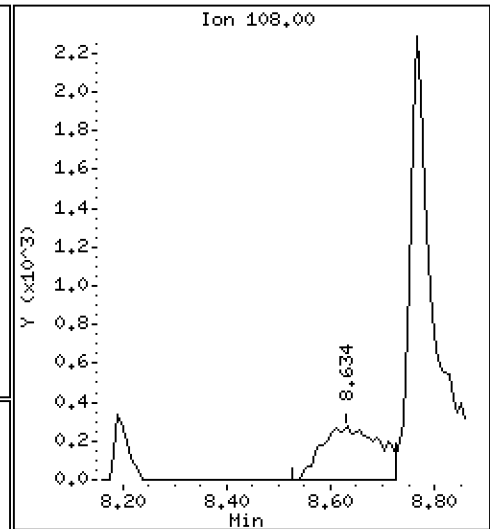
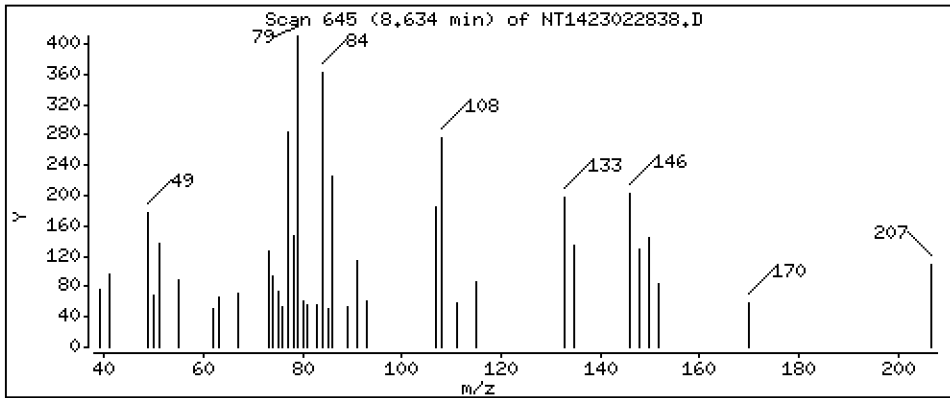
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.09424 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

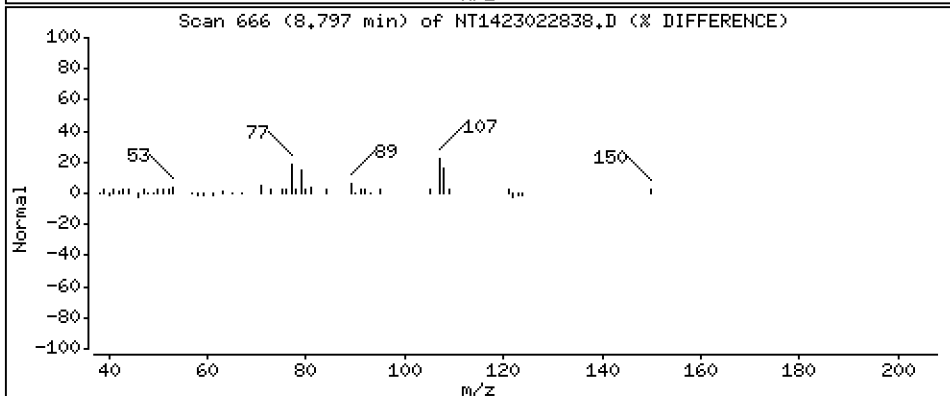
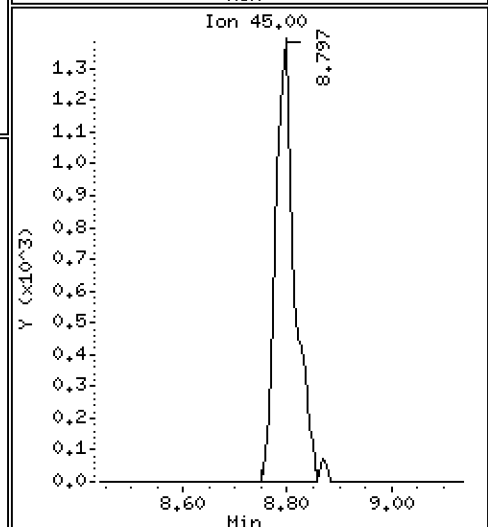
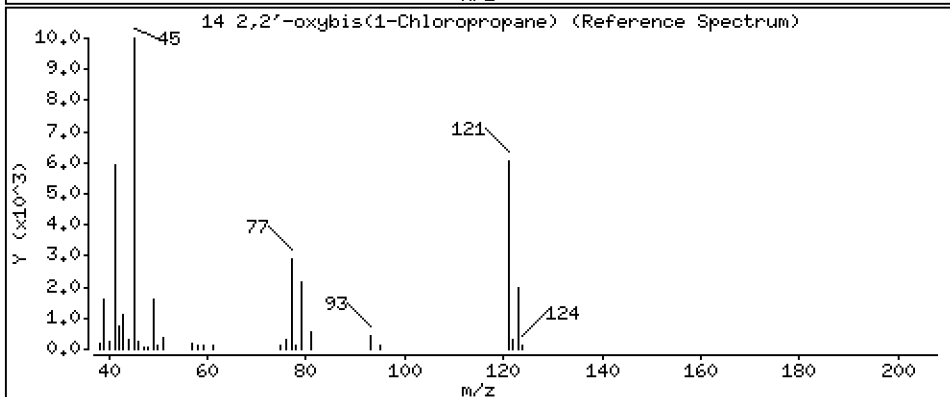
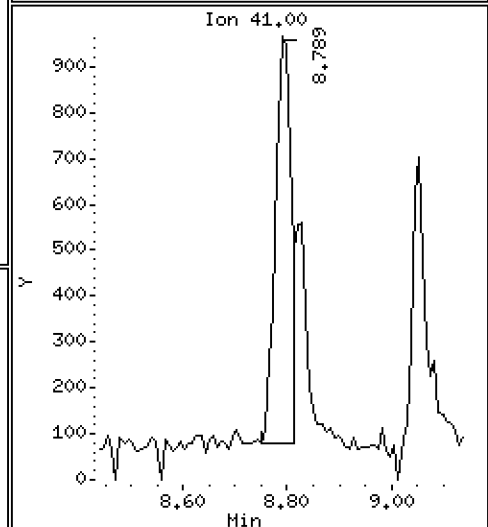
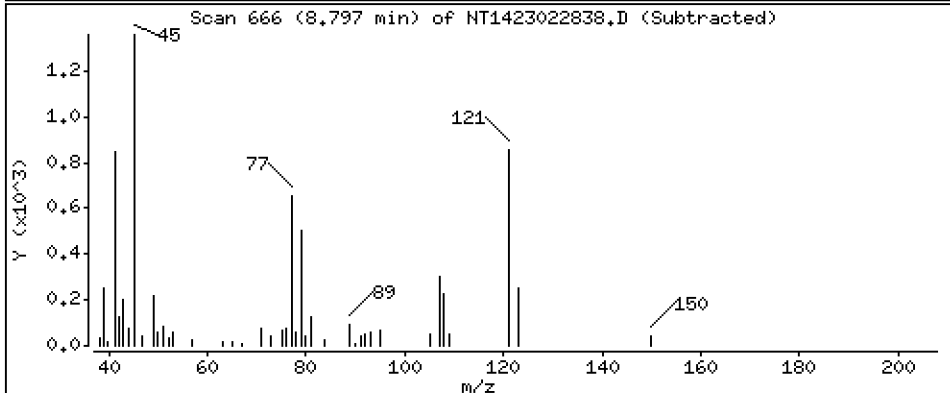
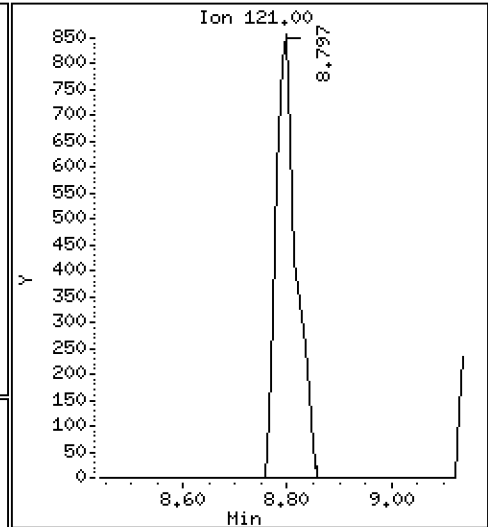
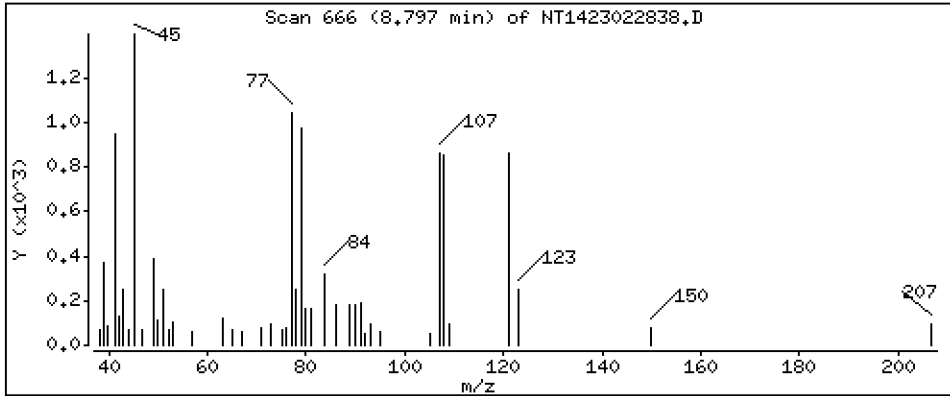
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 0,2101 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

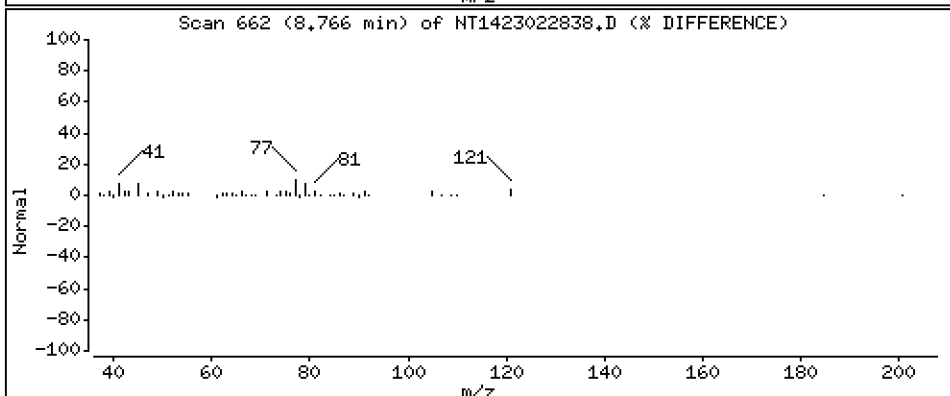
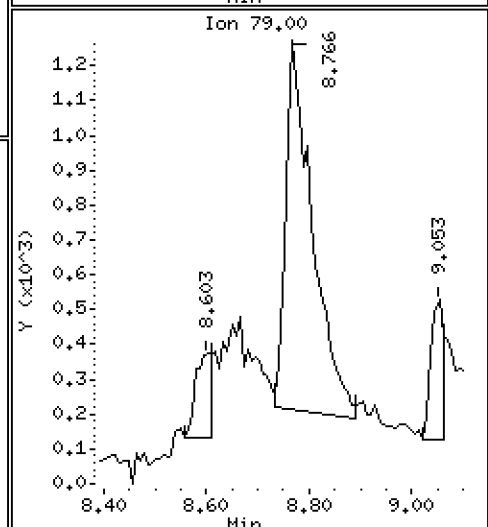
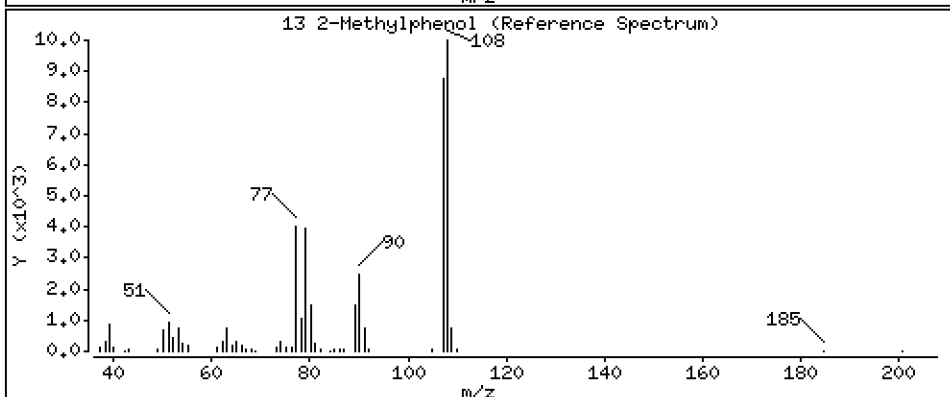
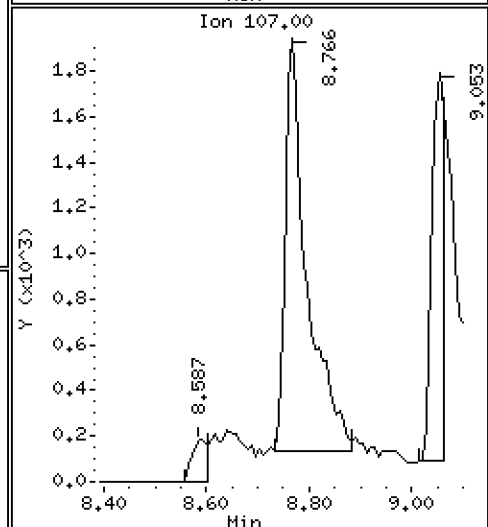
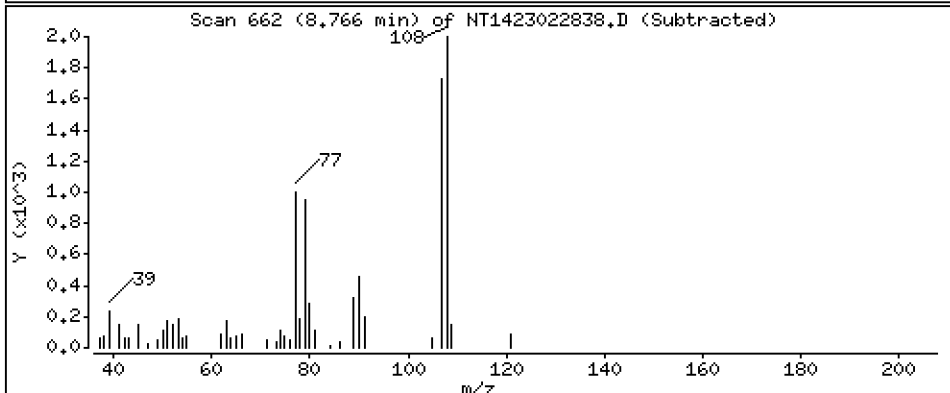
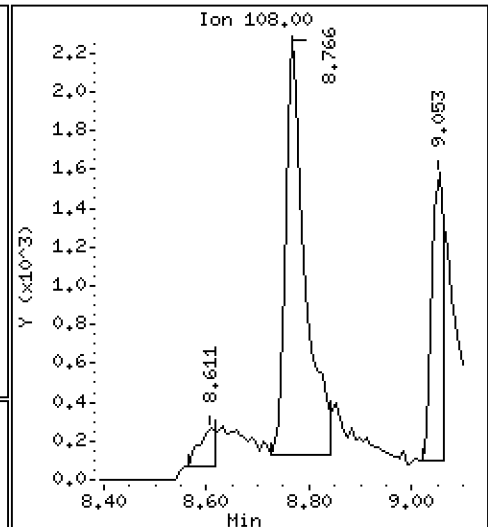
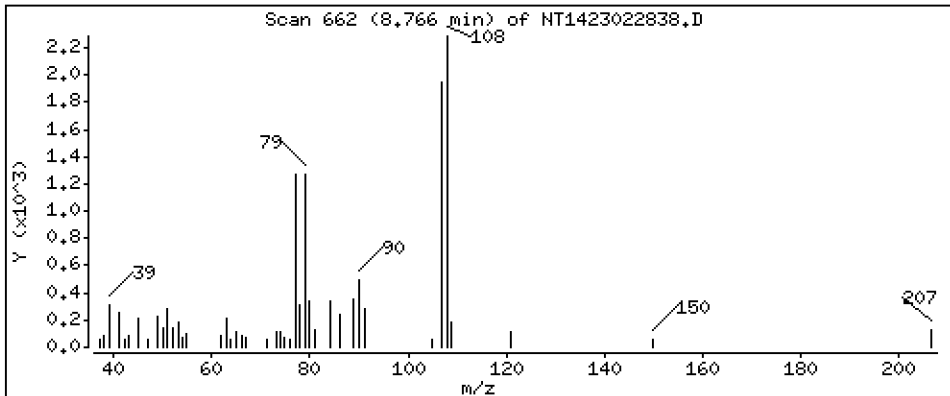
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.1718 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

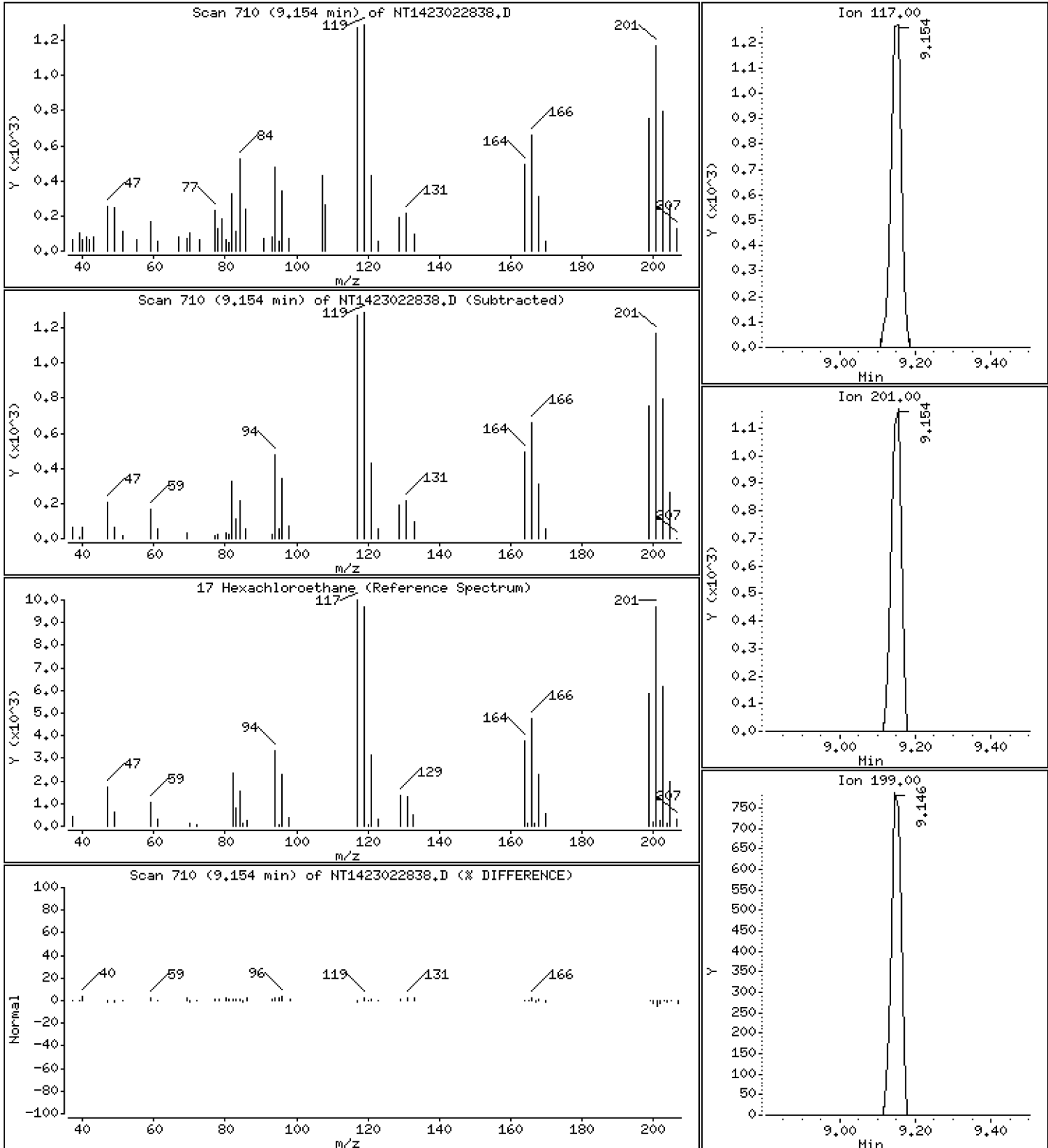
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 0.1471 ug/mL





Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

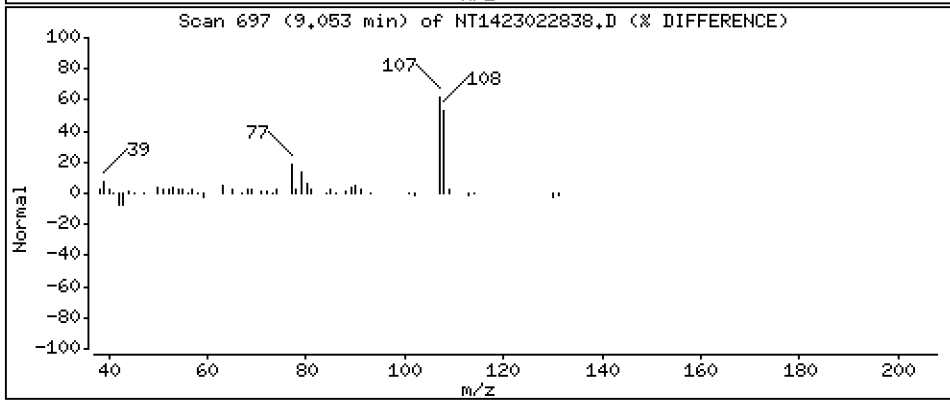
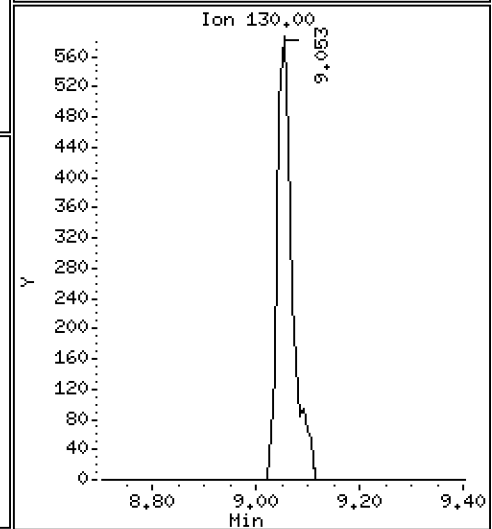
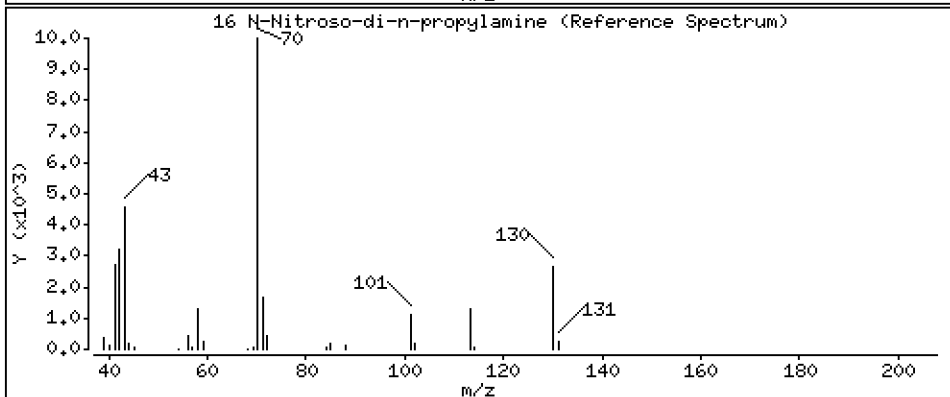
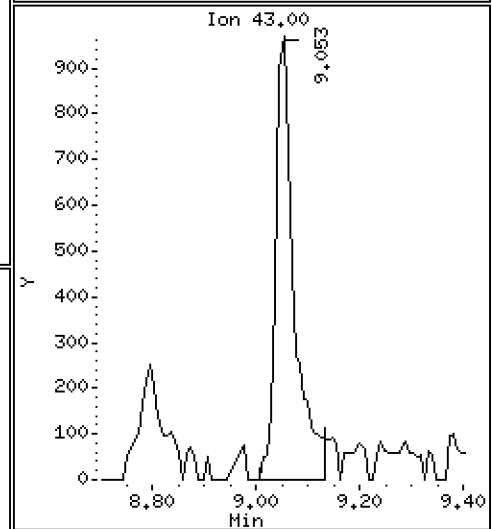
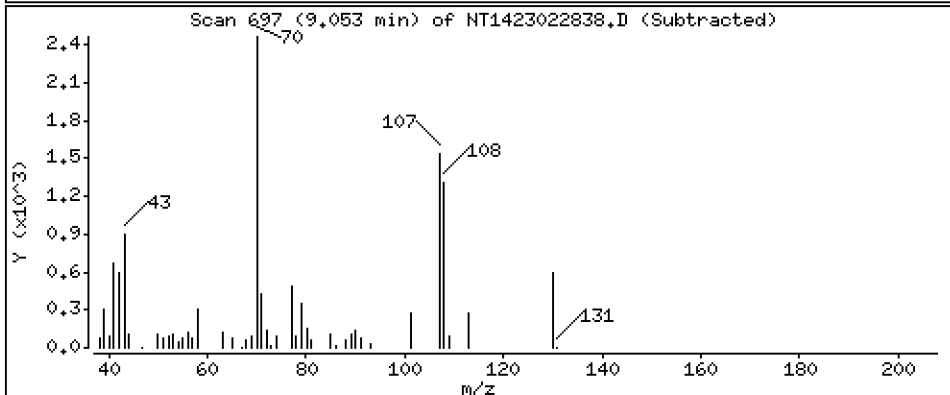
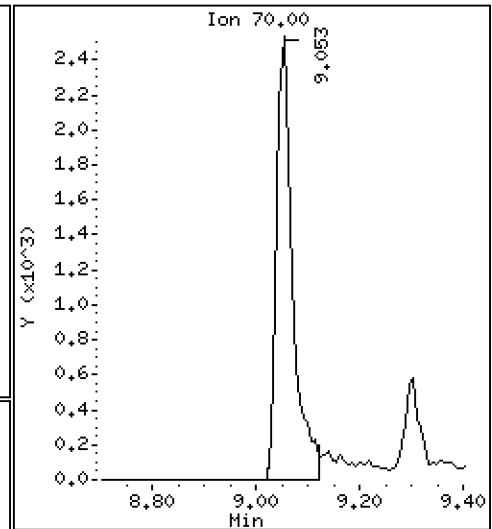
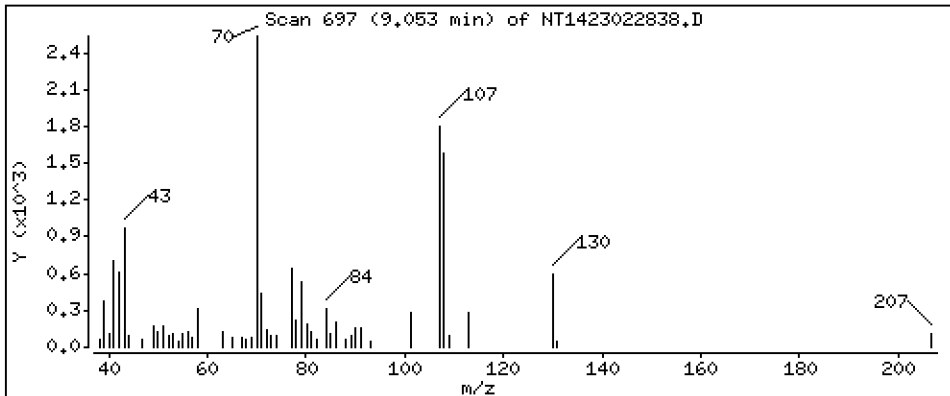
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,2084 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

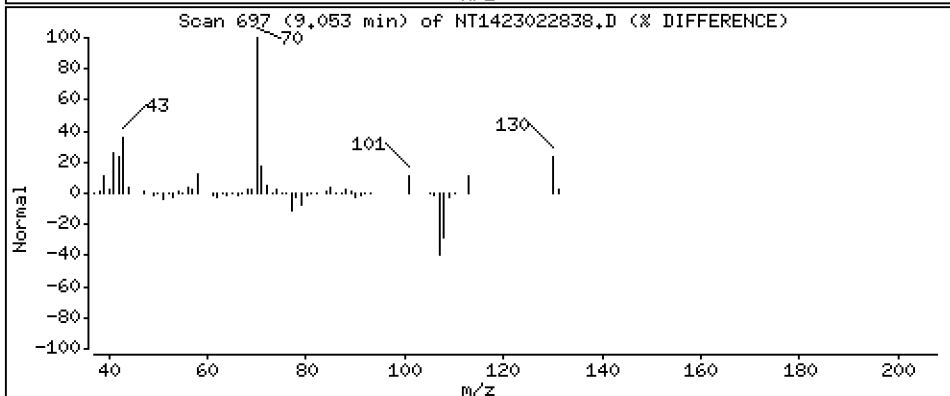
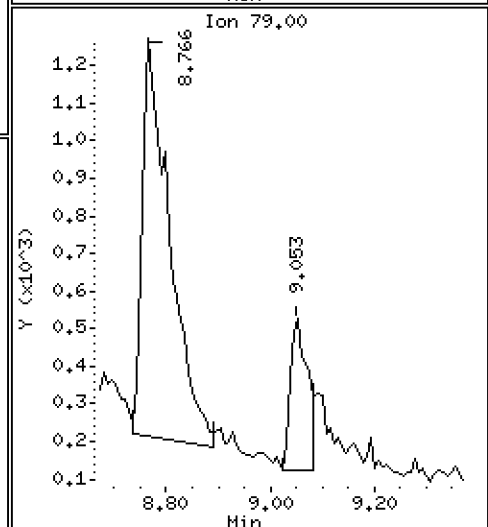
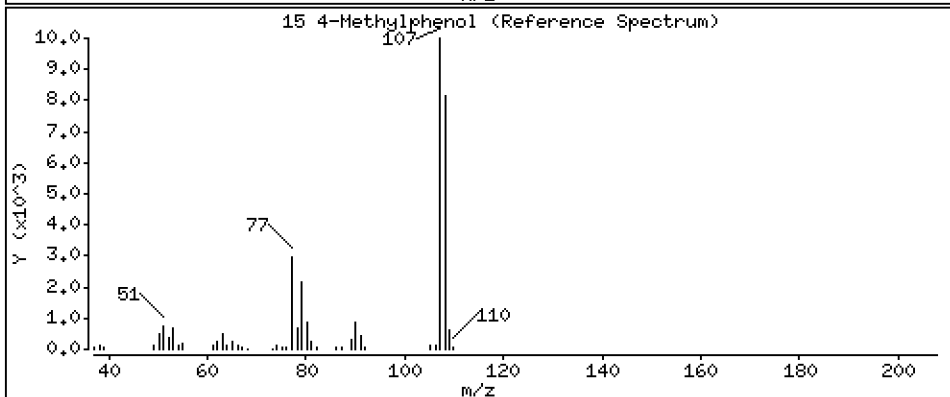
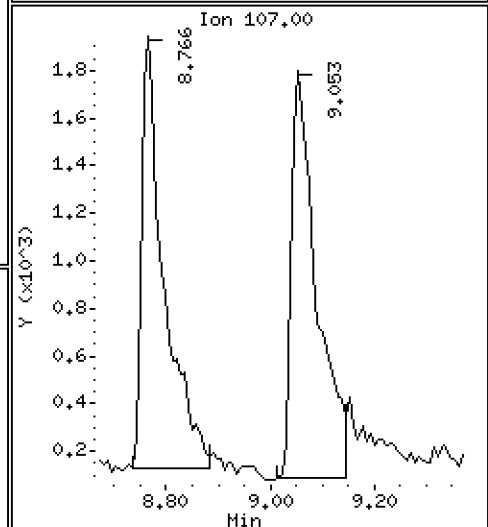
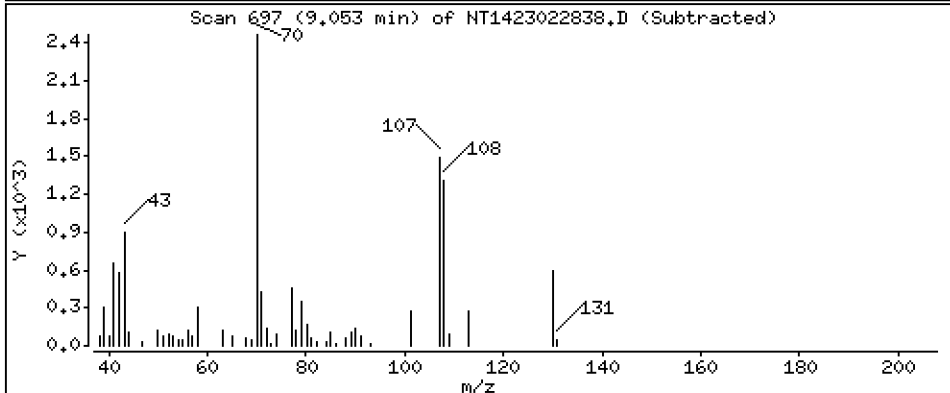
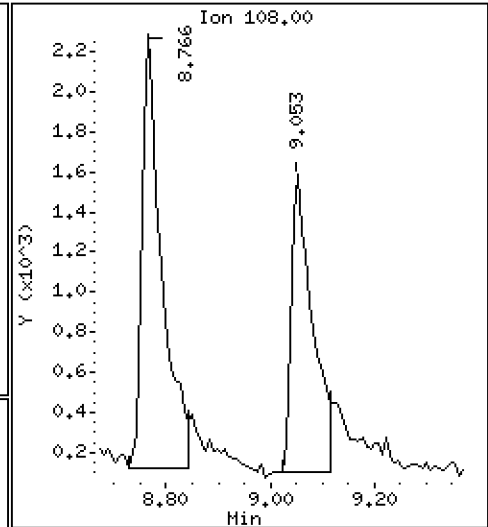
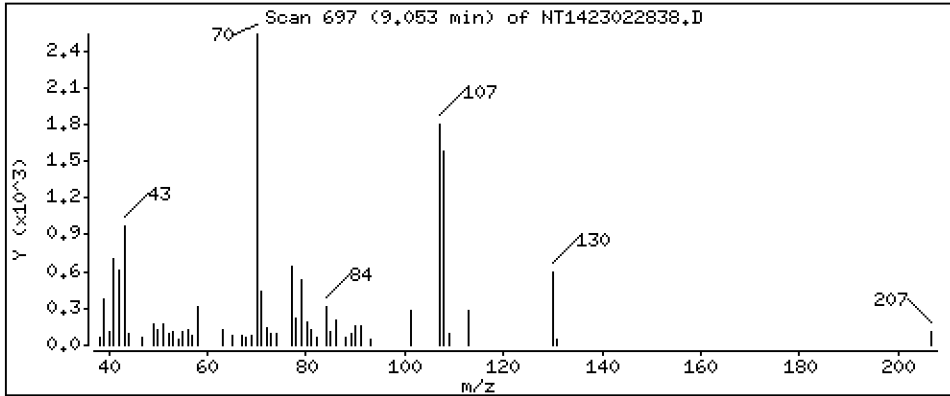
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1119 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

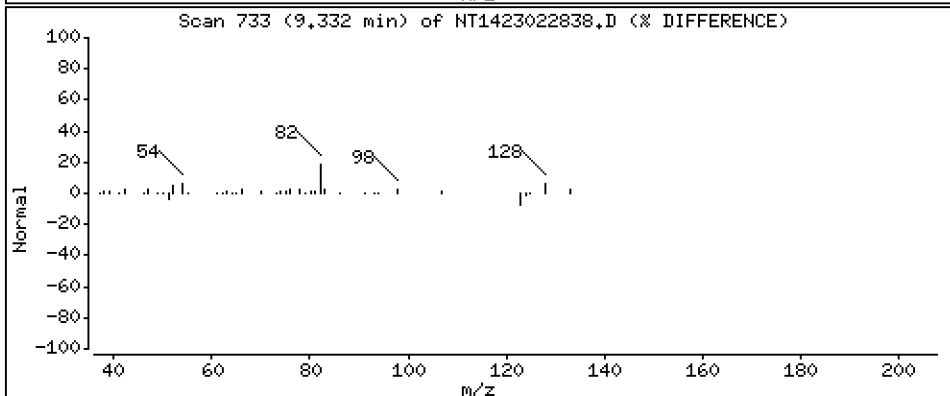
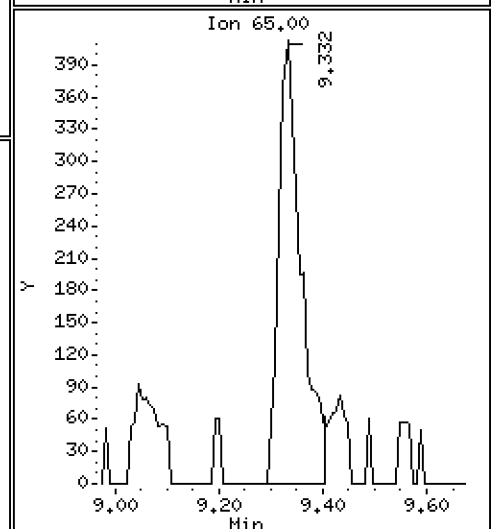
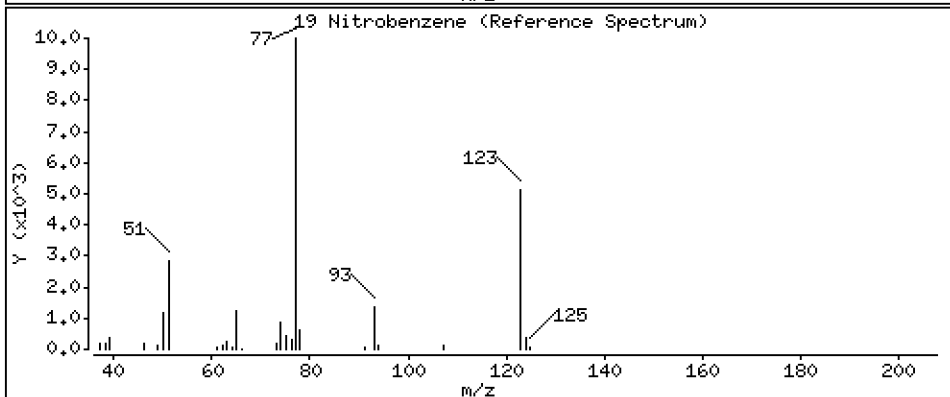
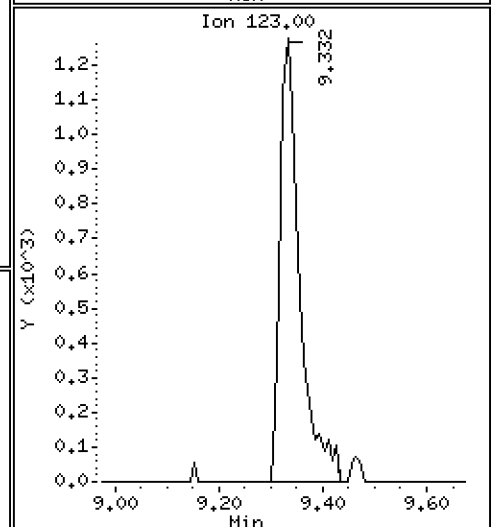
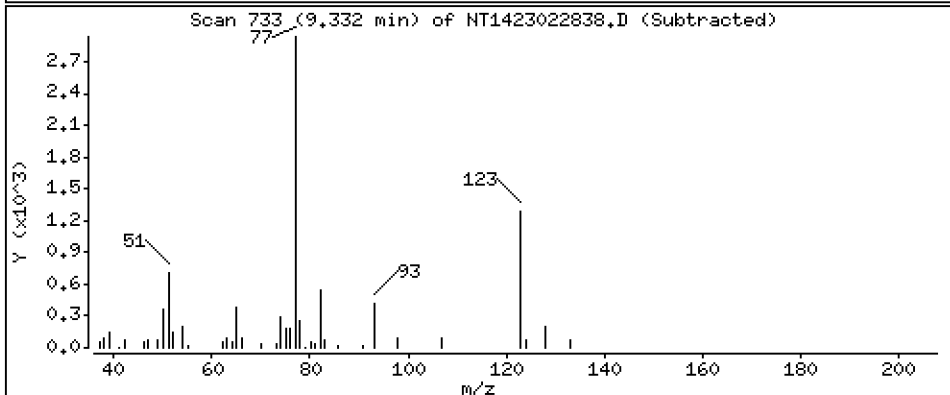
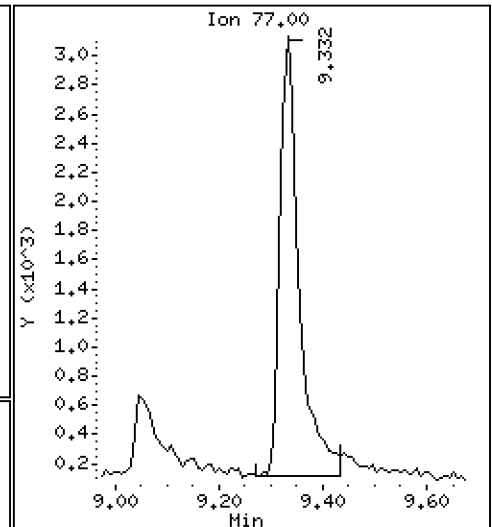
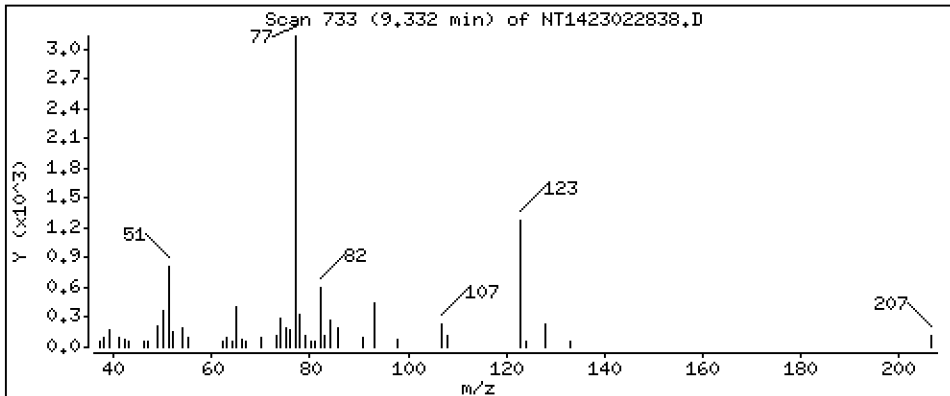
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

19 Nitrobenzene

Concentration: 0.1999 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

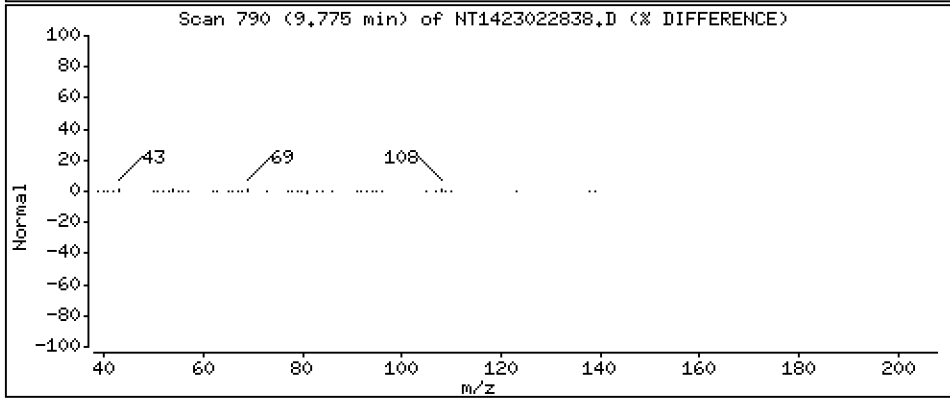
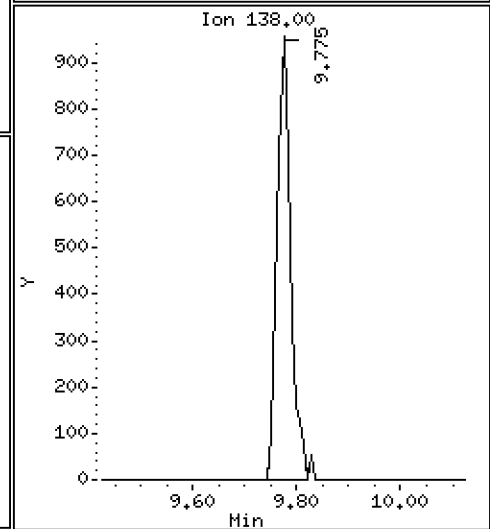
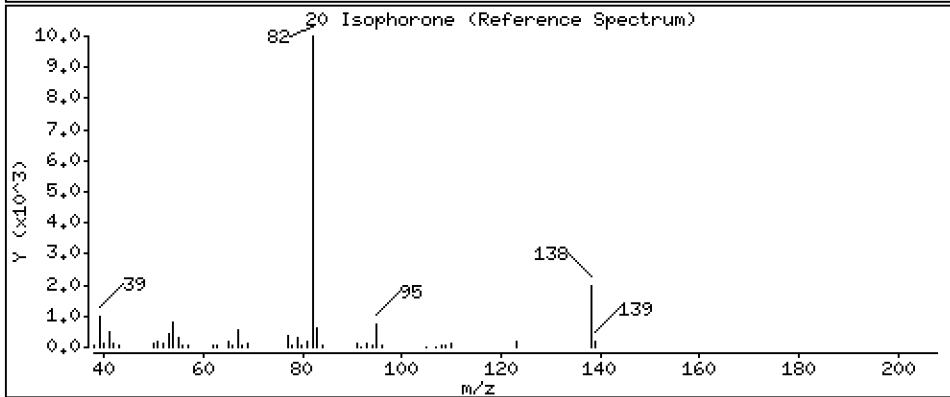
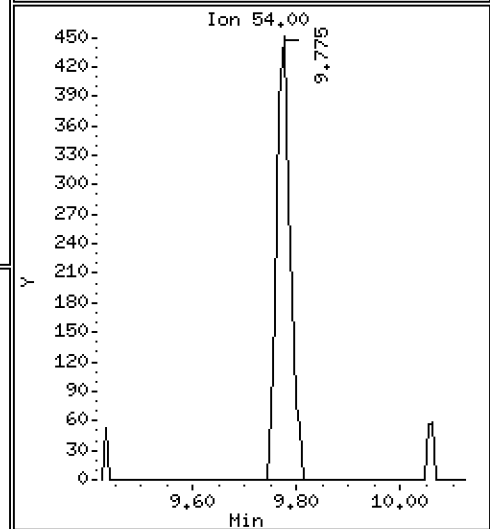
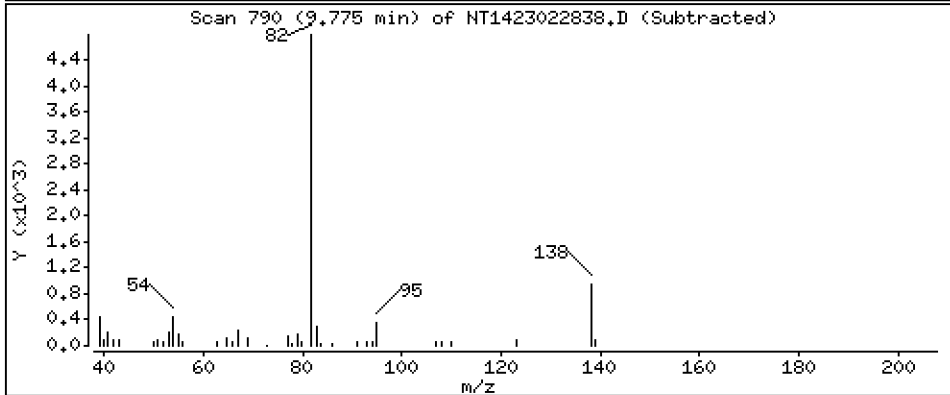
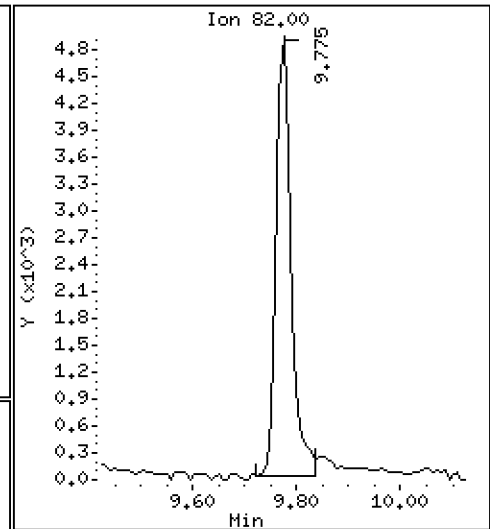
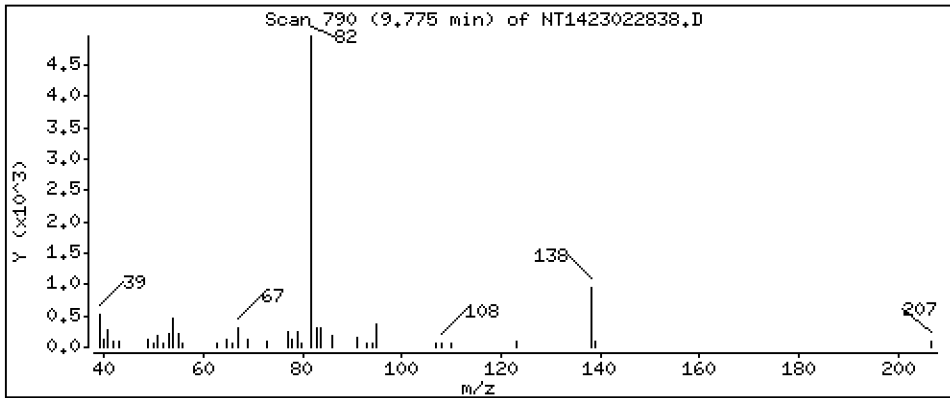
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 0,1578 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

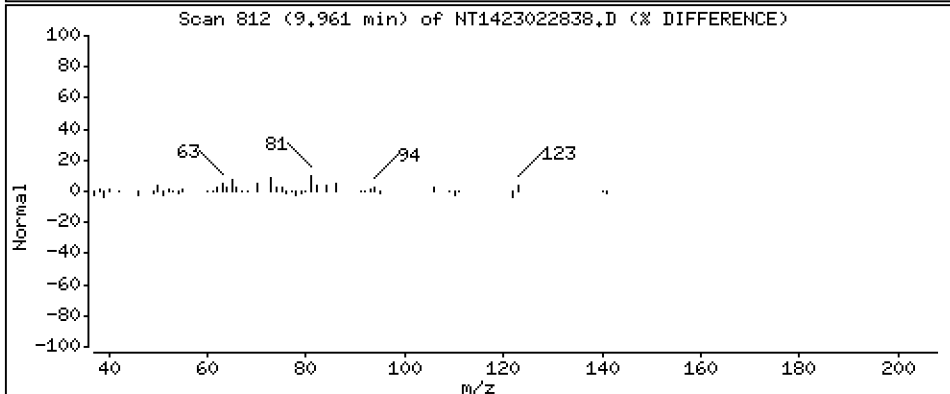
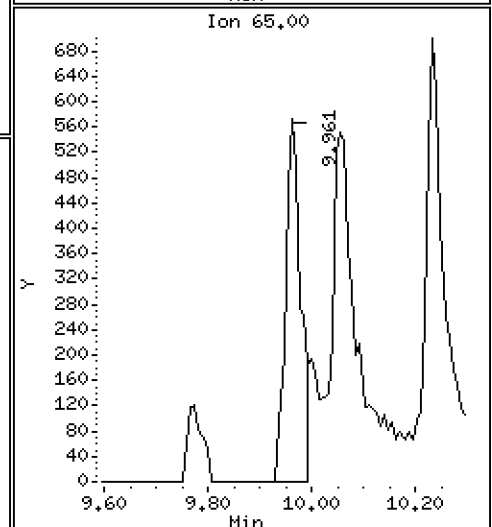
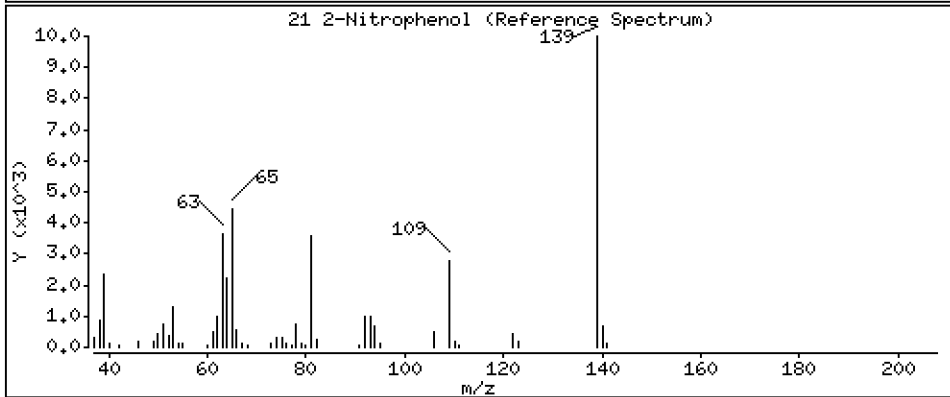
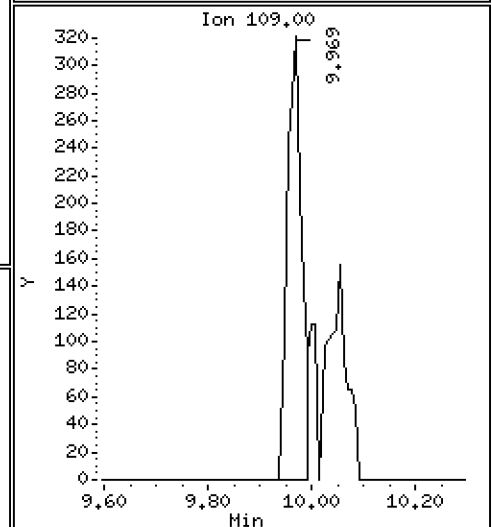
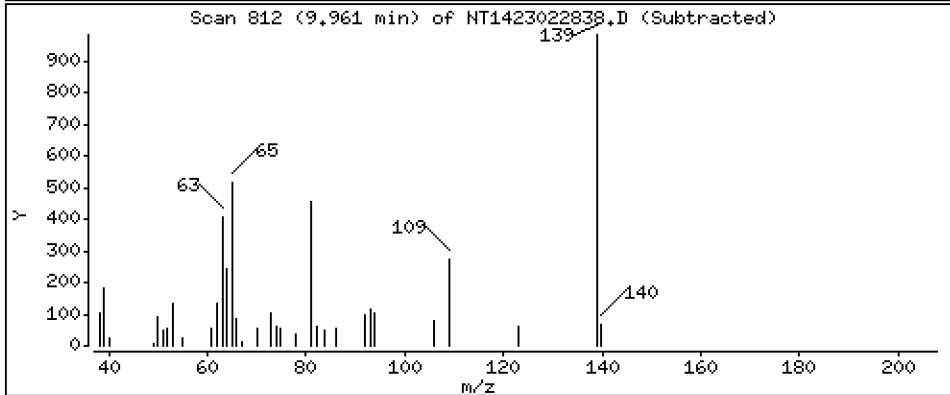
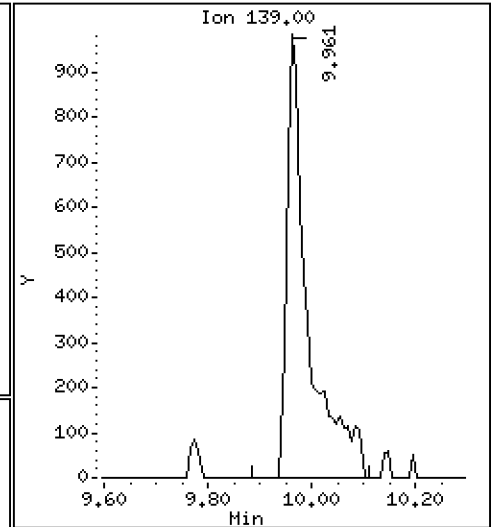
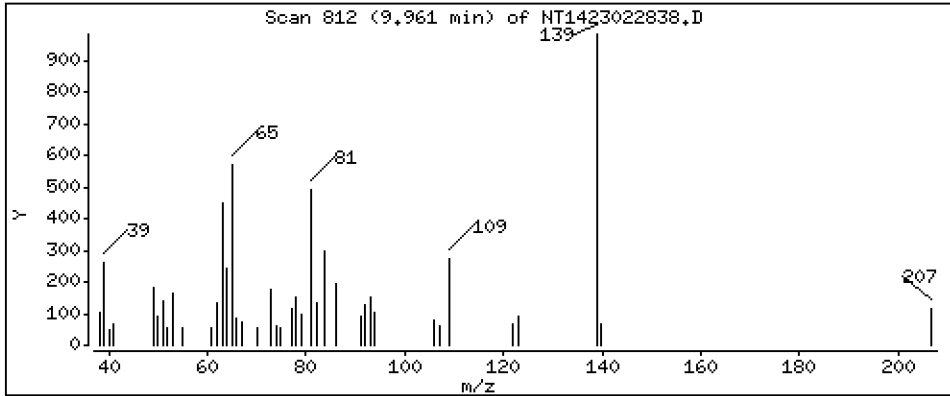
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,1547 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

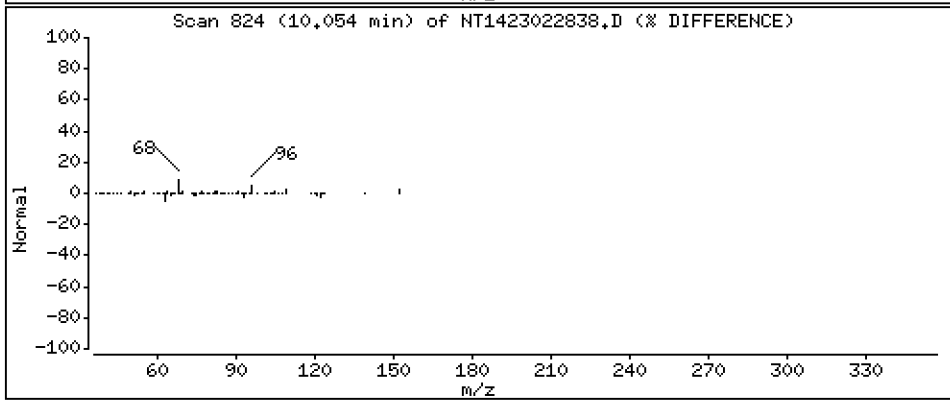
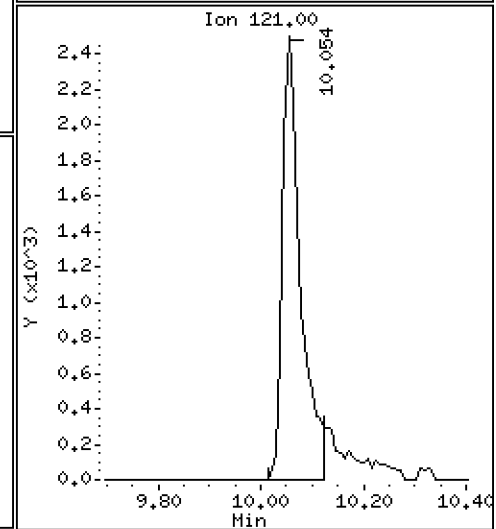
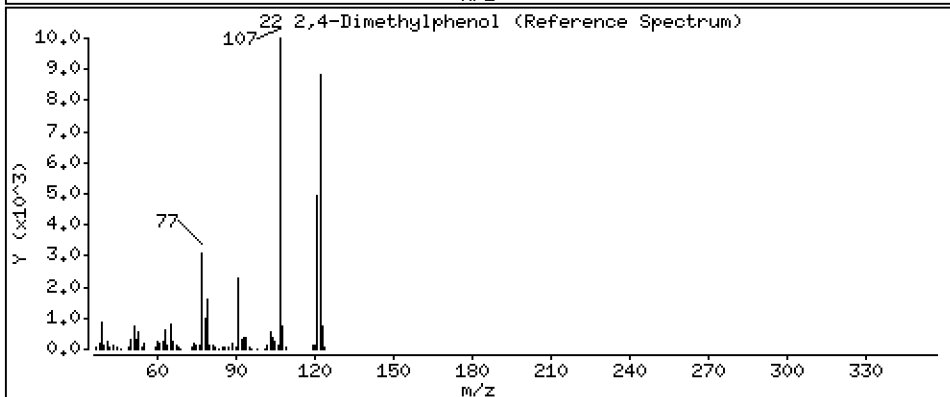
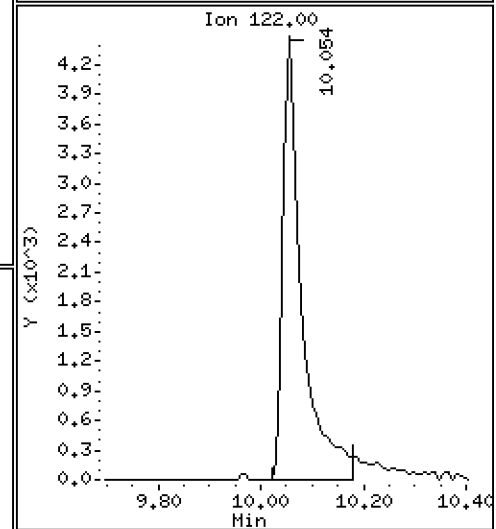
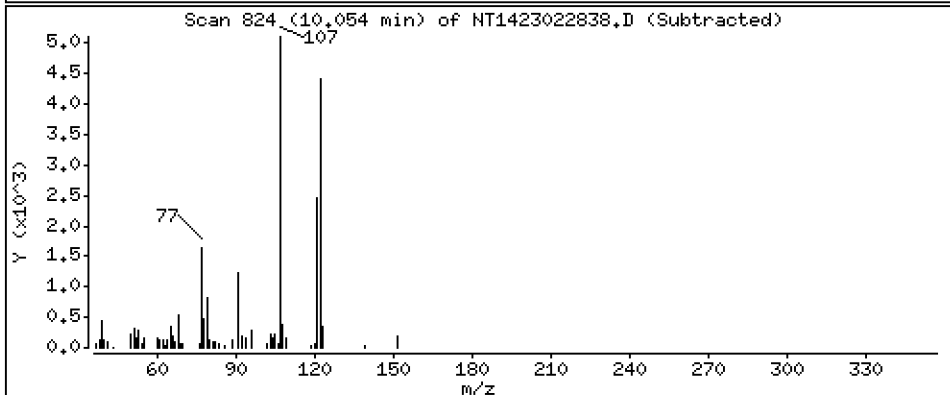
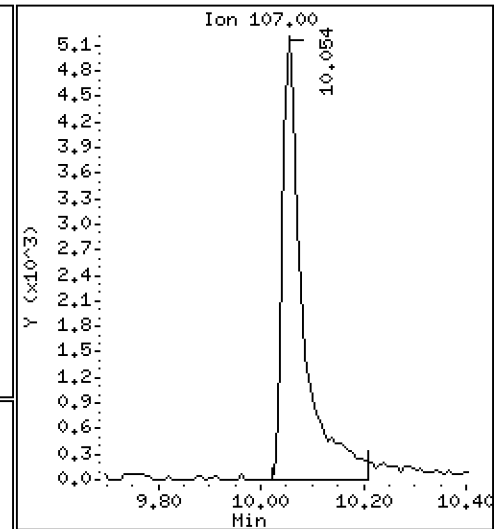
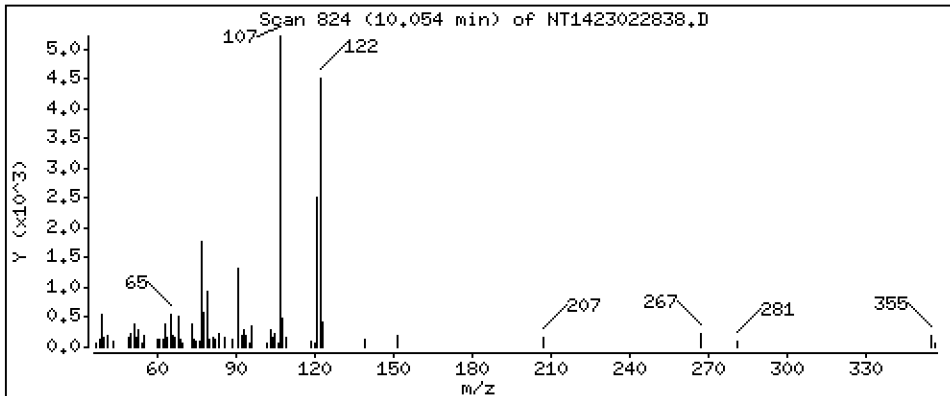
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,4027 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

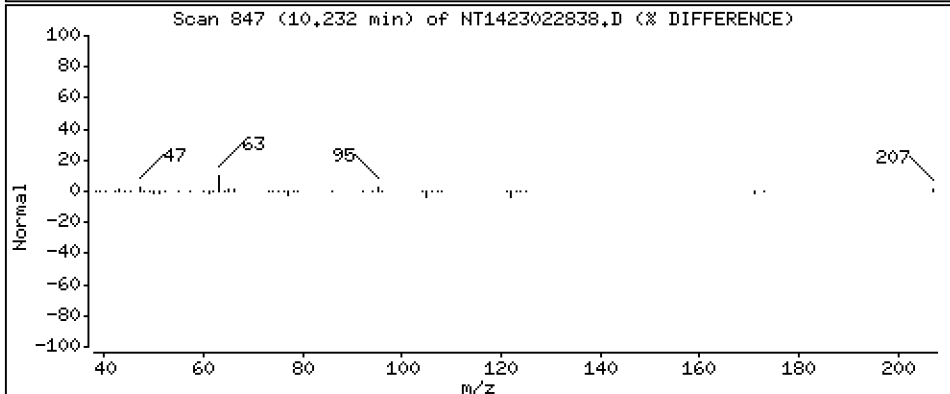
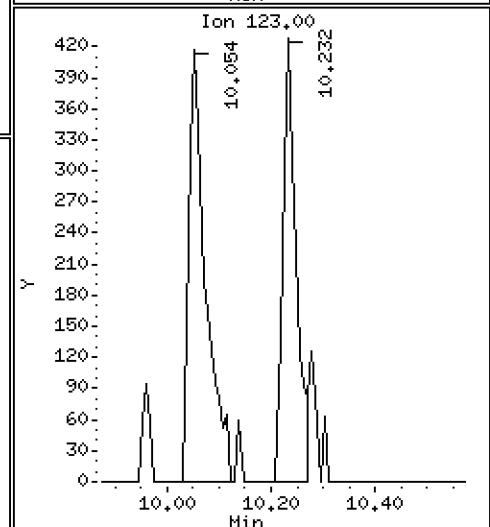
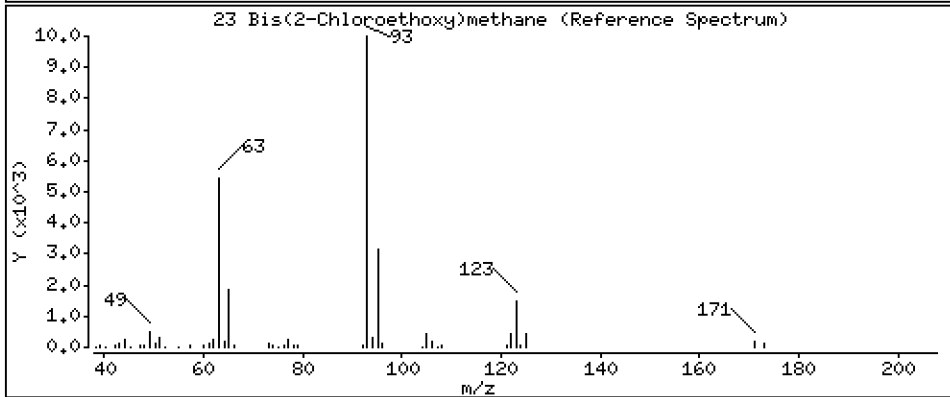
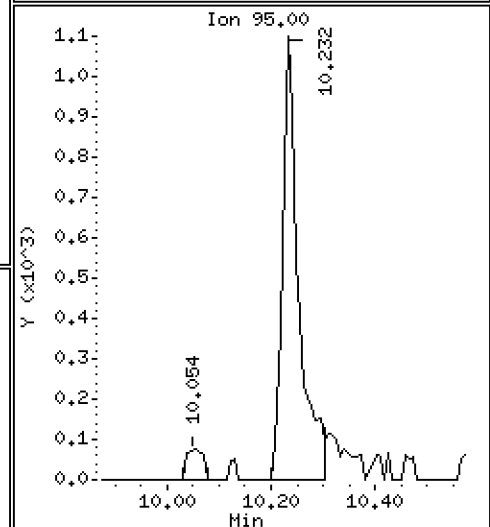
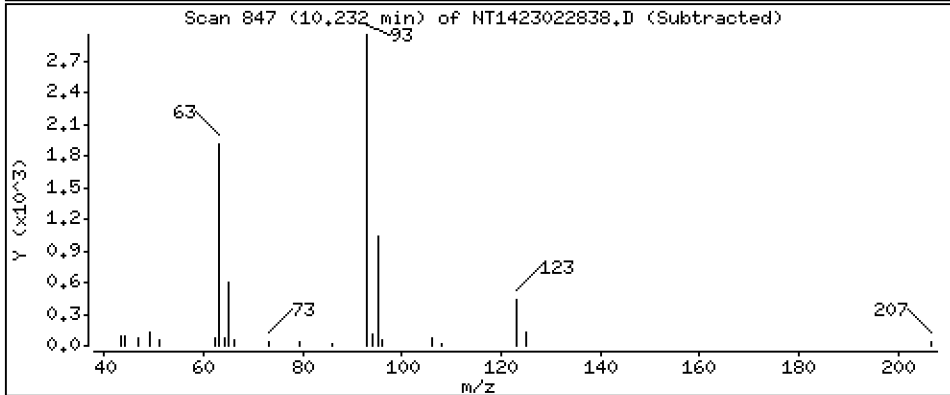
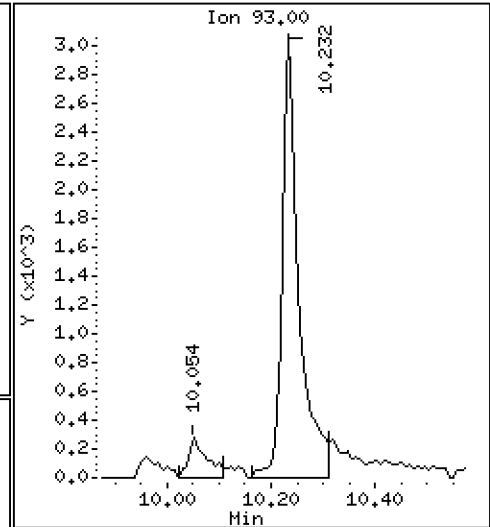
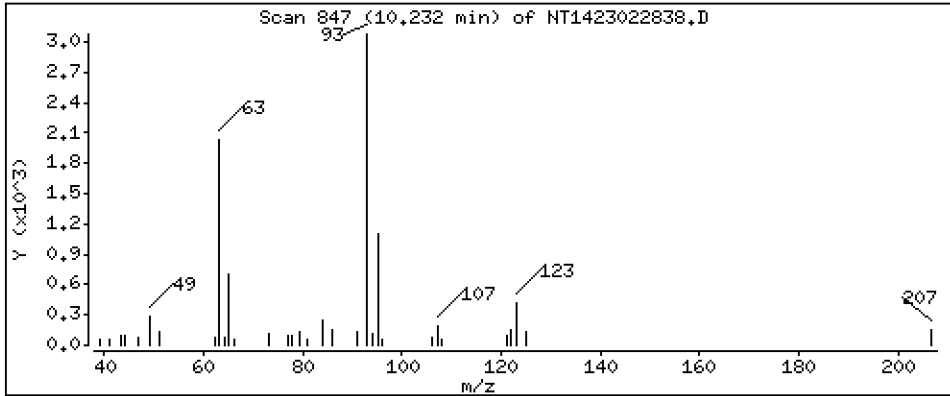
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 0.1833 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

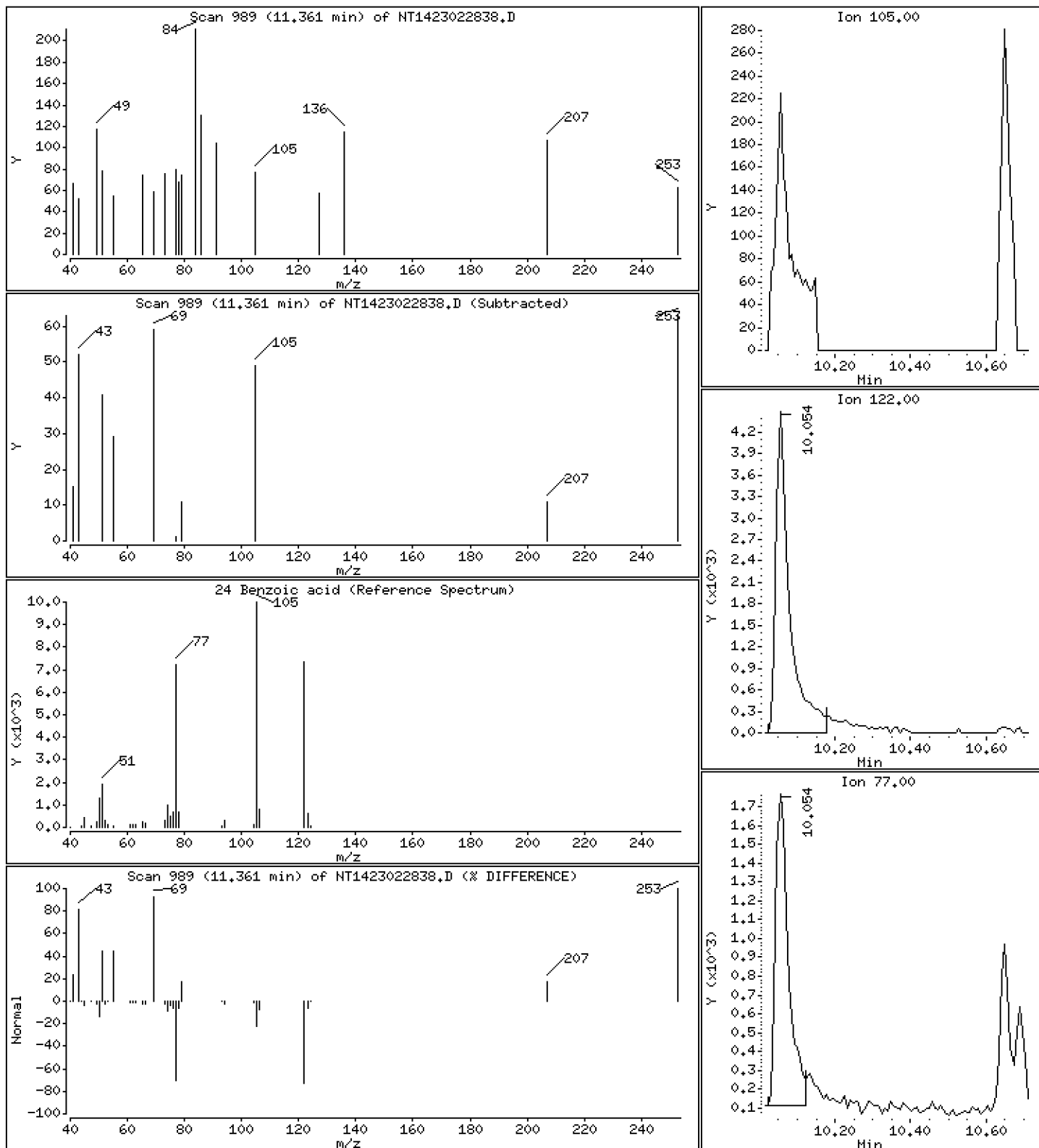
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.08173 ug/mL





Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

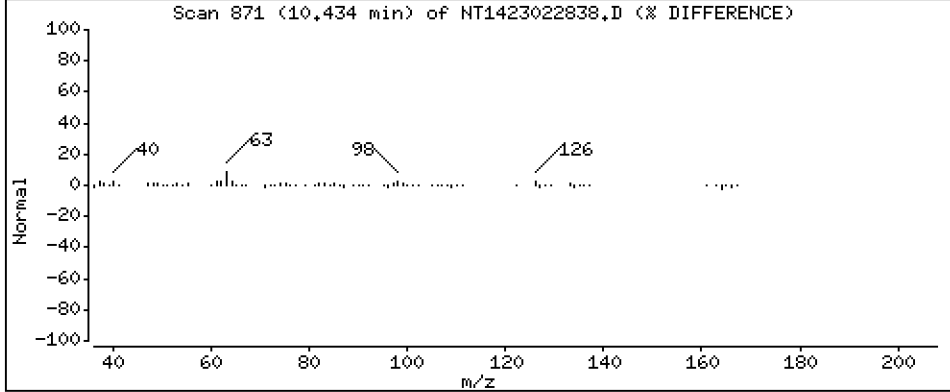
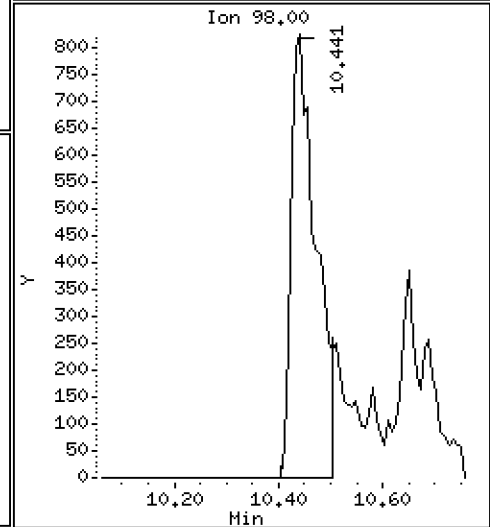
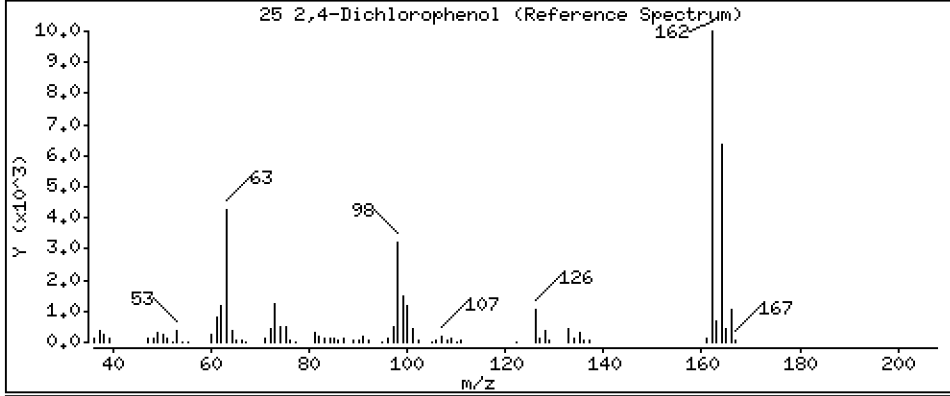
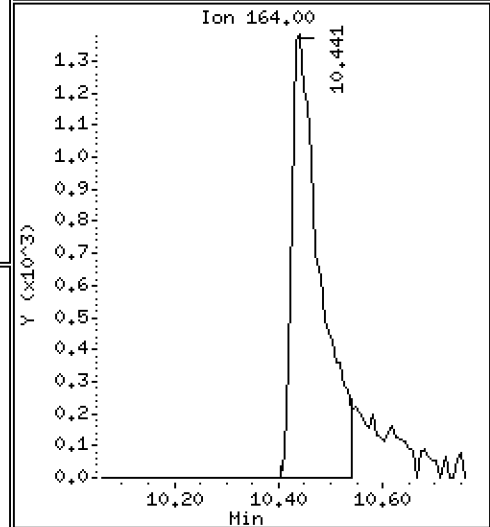
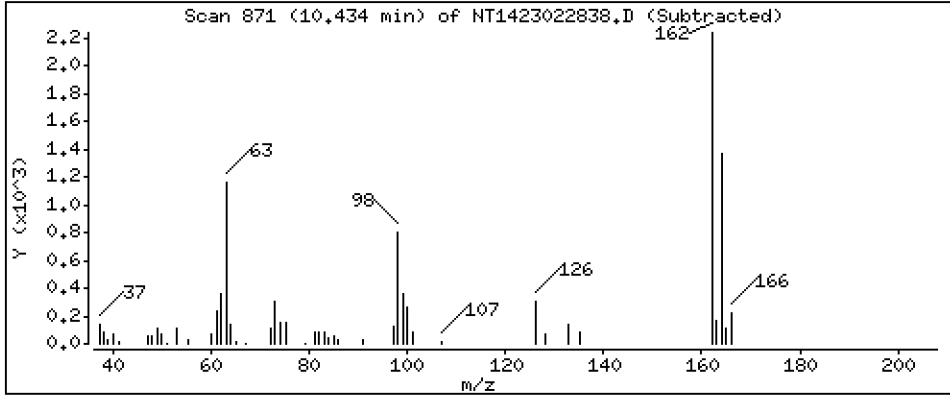
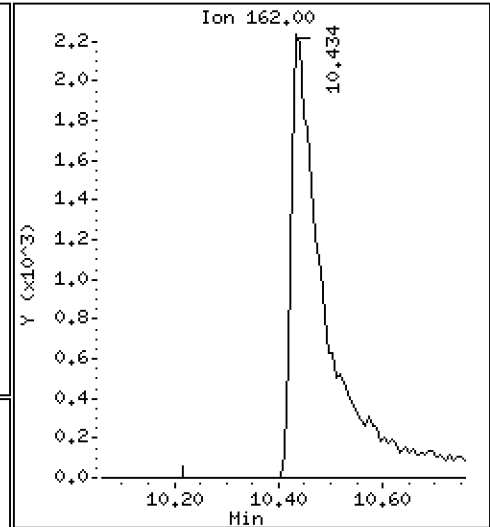
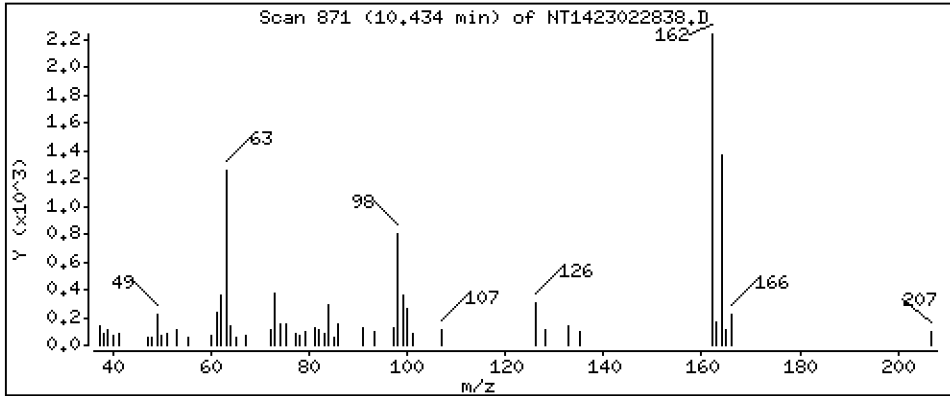
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,3194 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

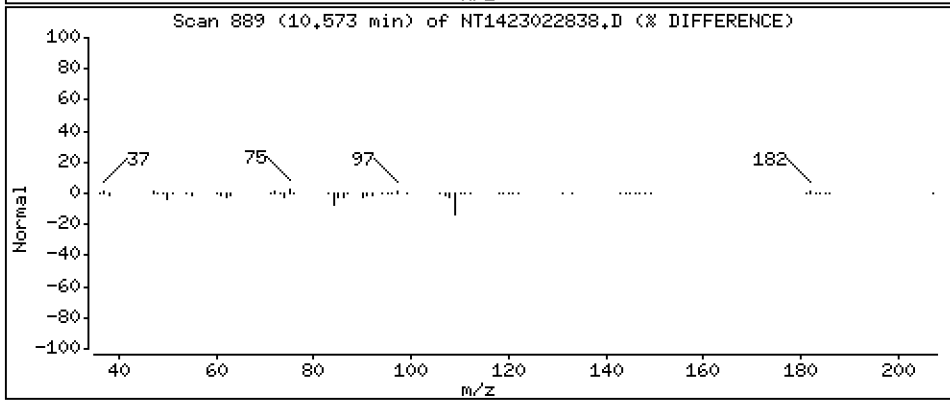
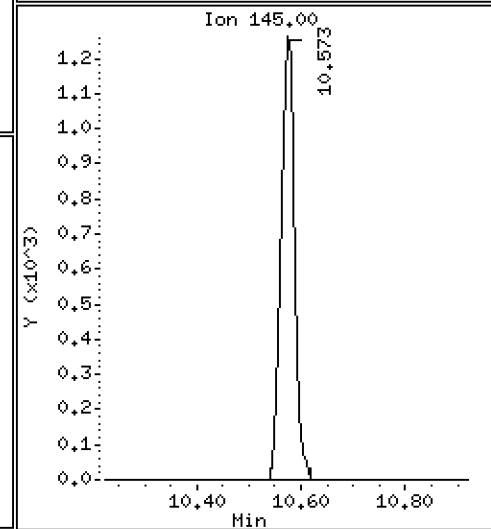
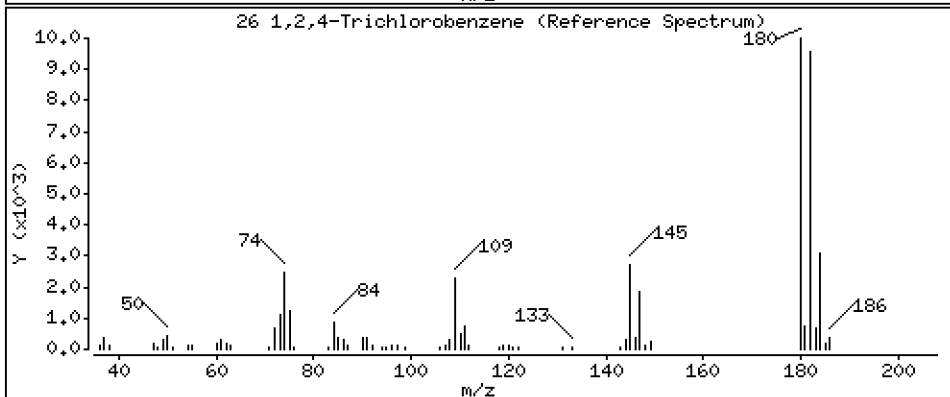
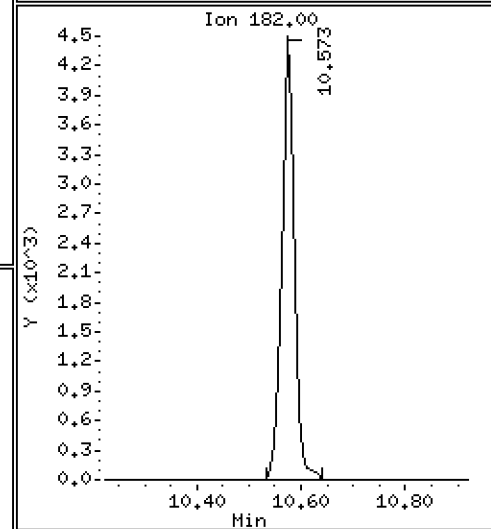
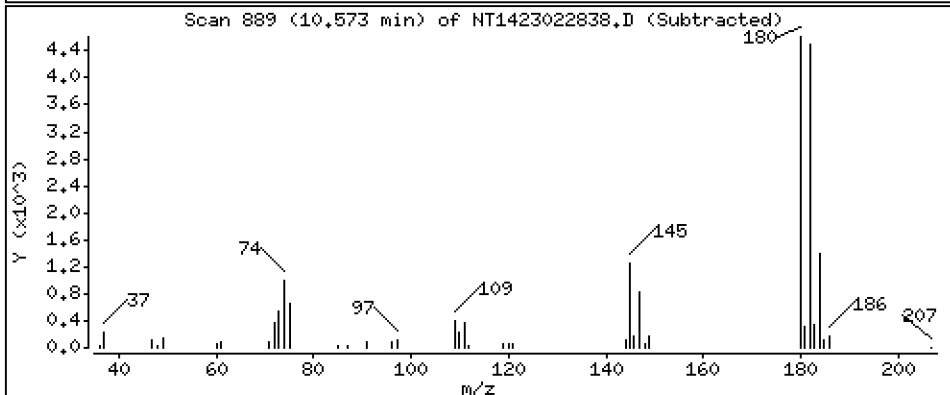
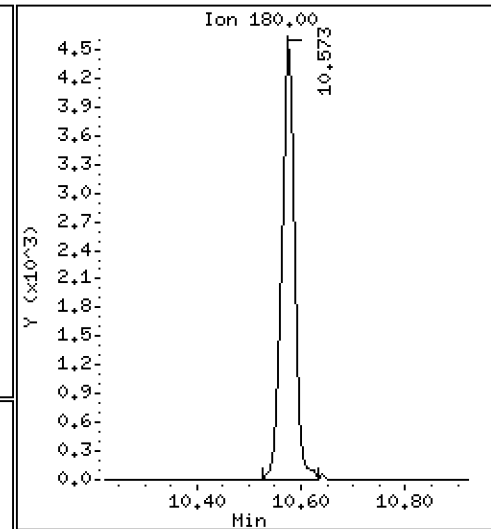
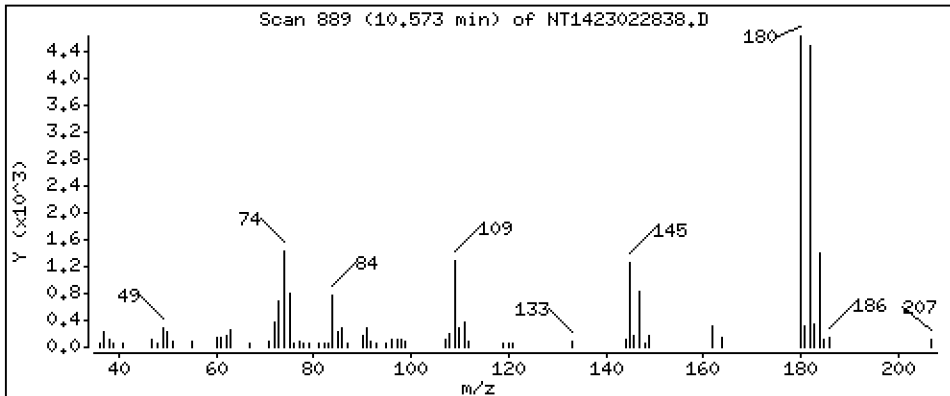
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,1994 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

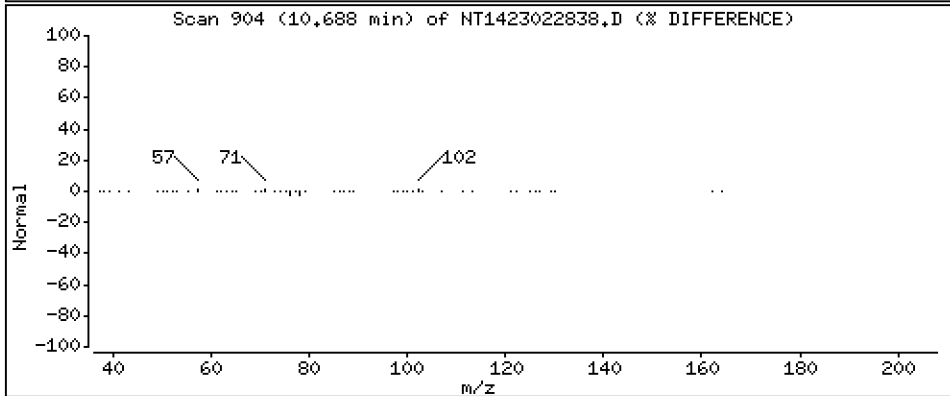
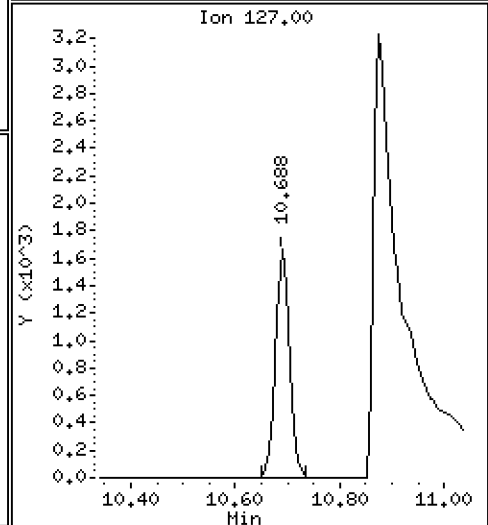
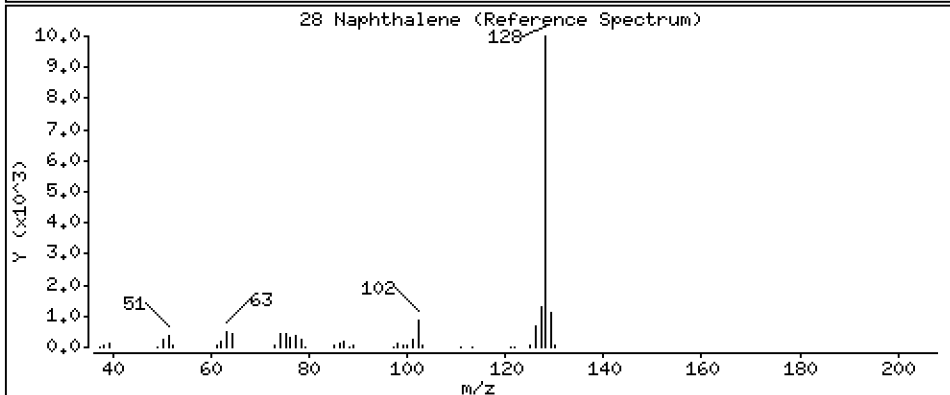
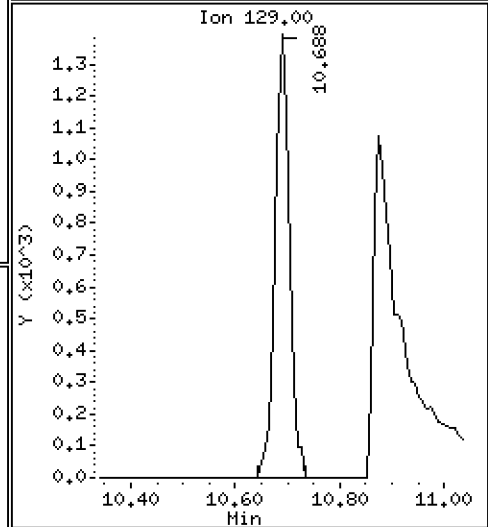
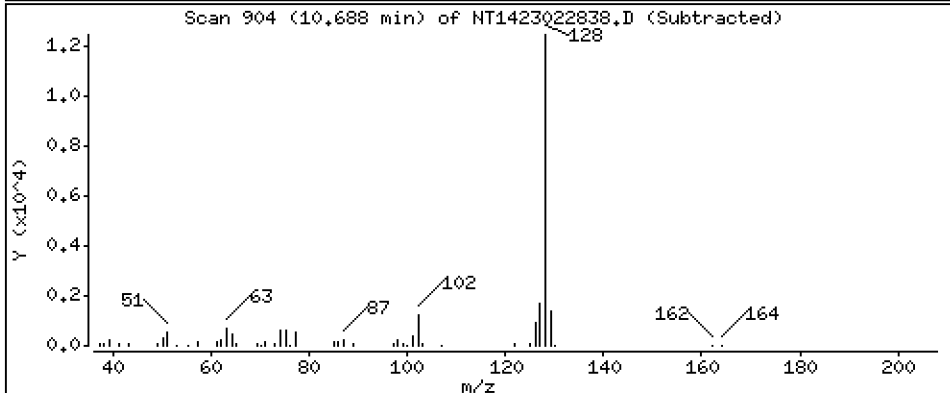
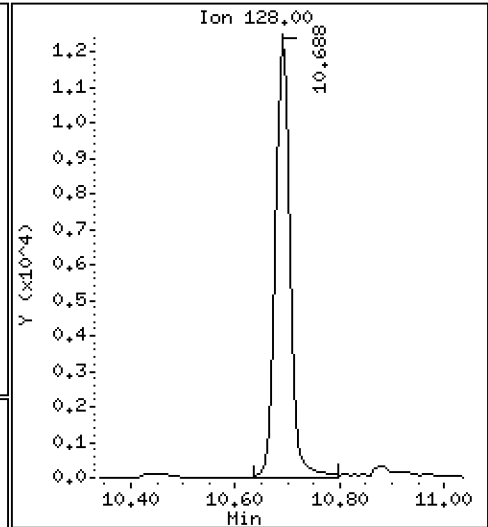
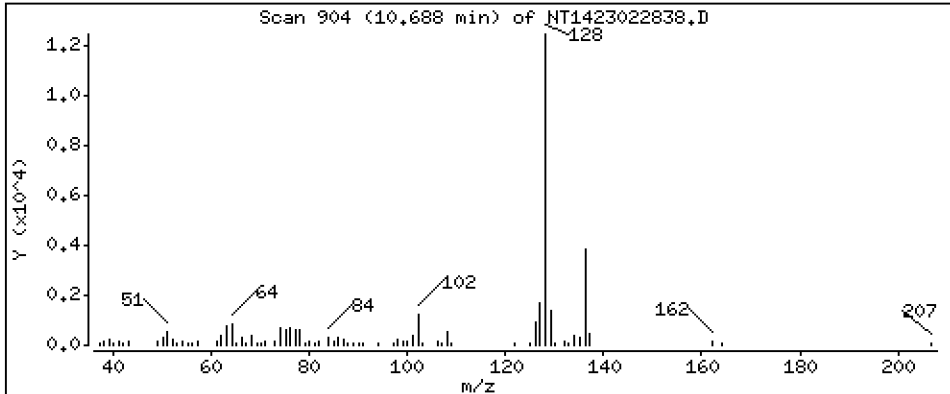
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2156 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

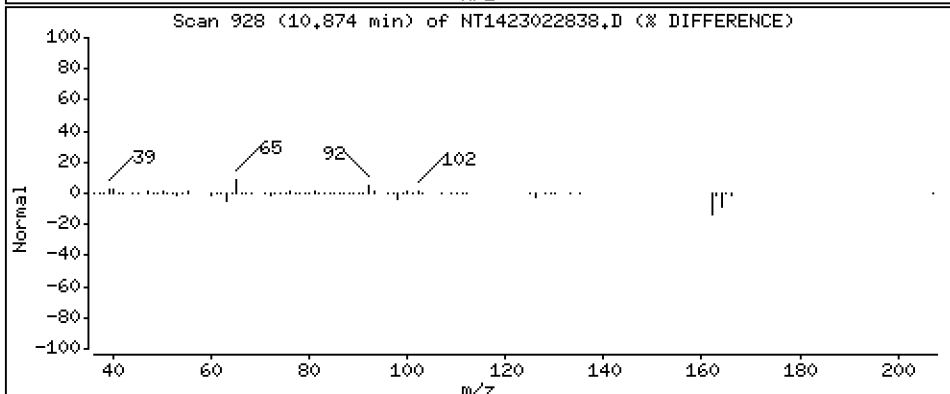
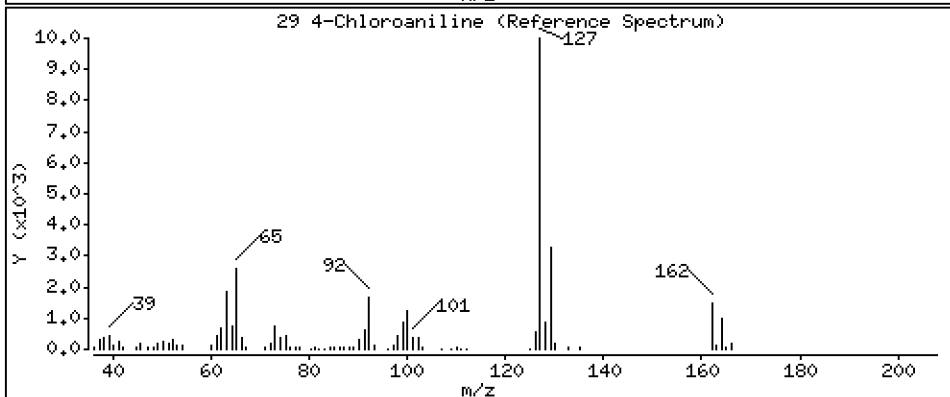
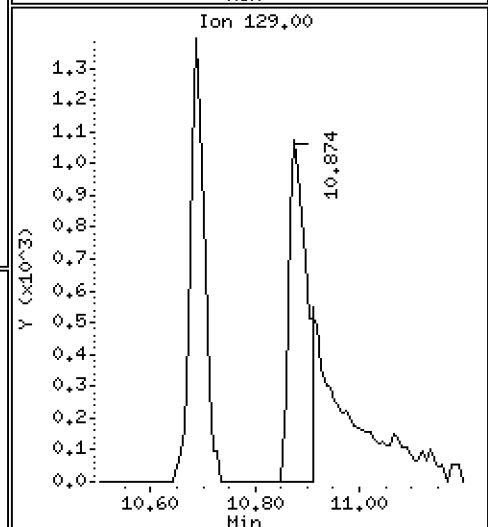
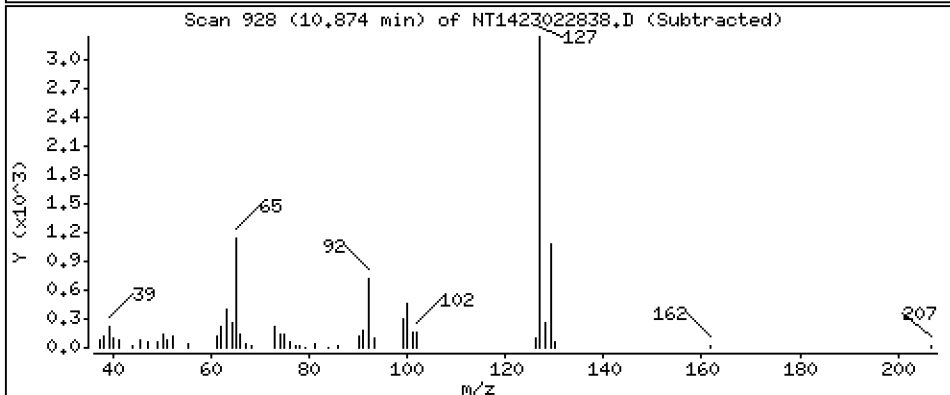
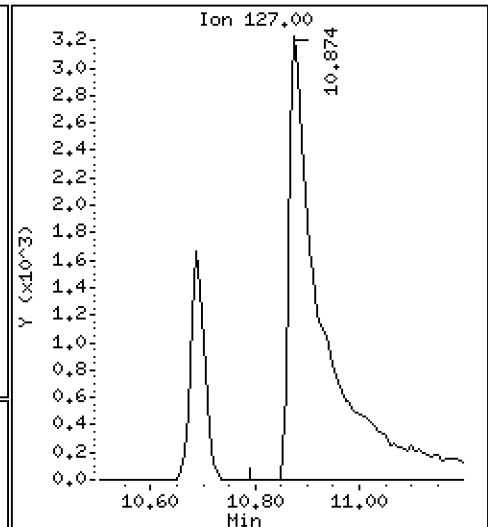
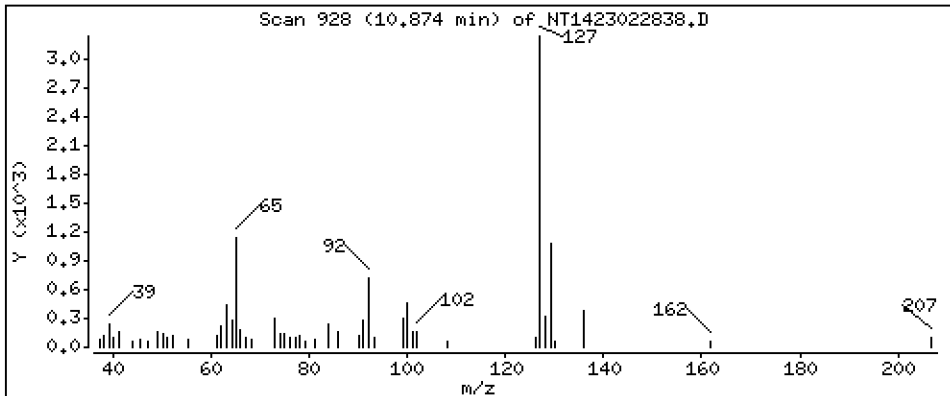
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3476 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

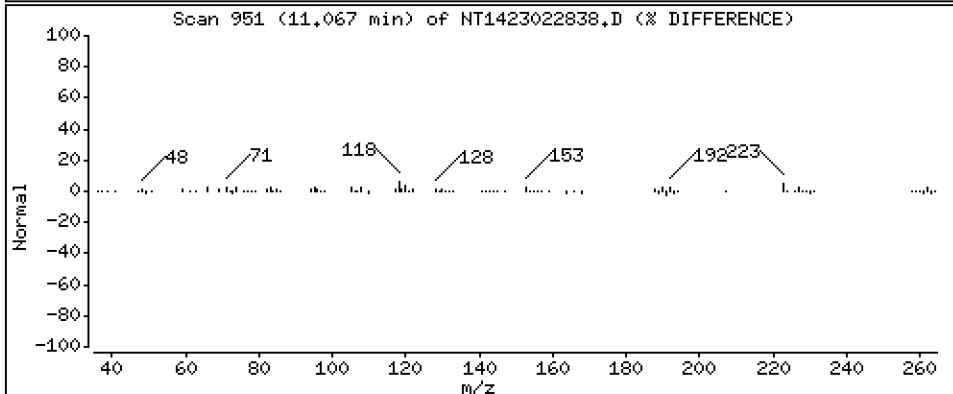
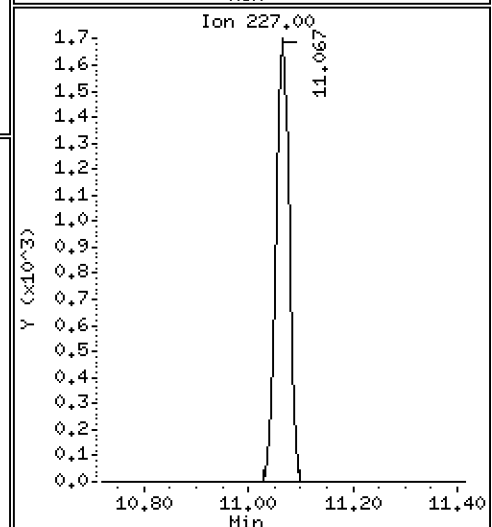
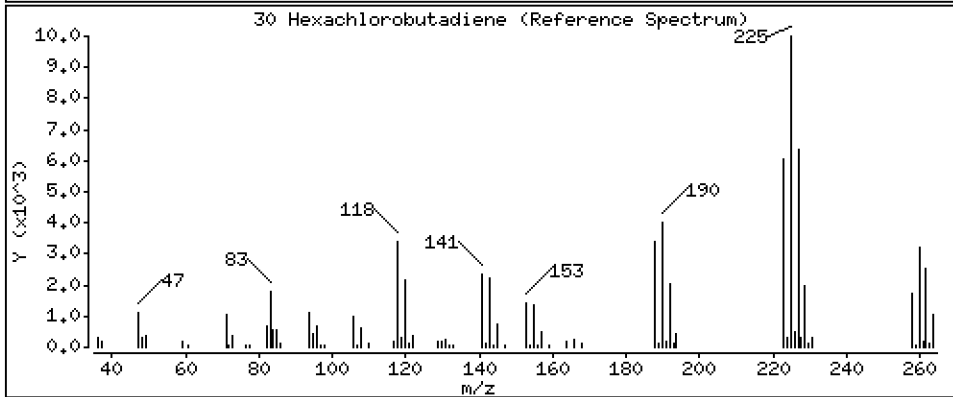
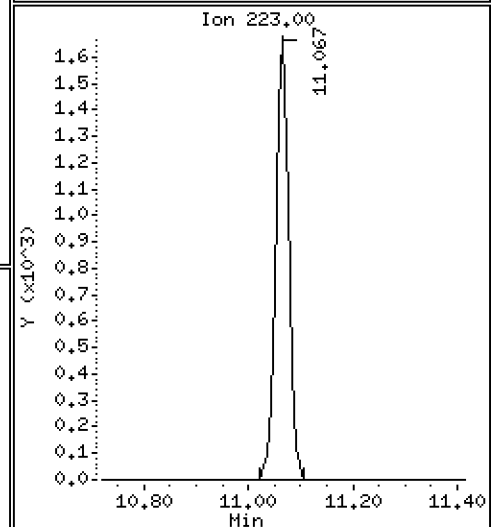
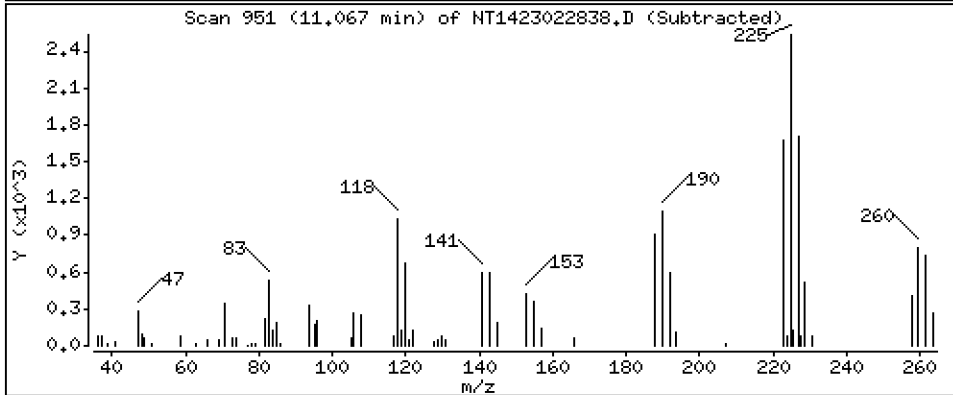
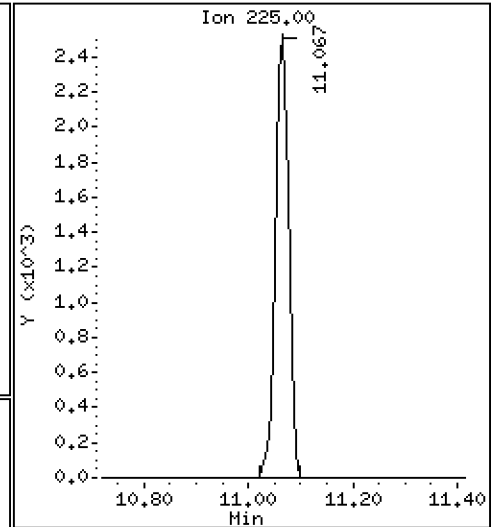
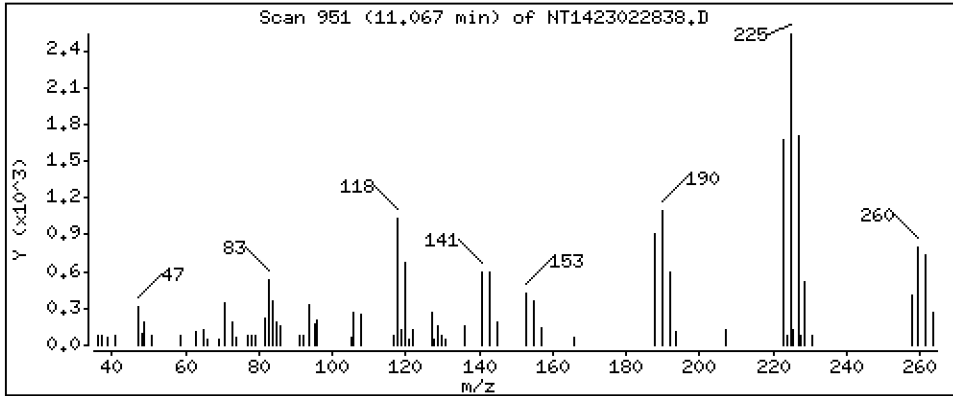
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,1778 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

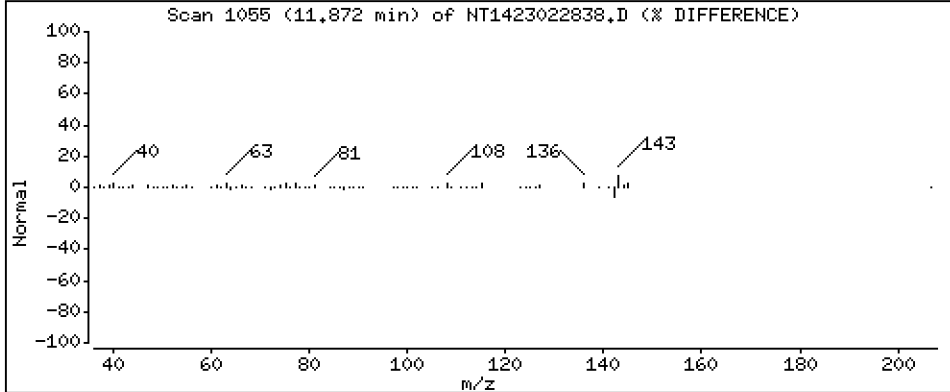
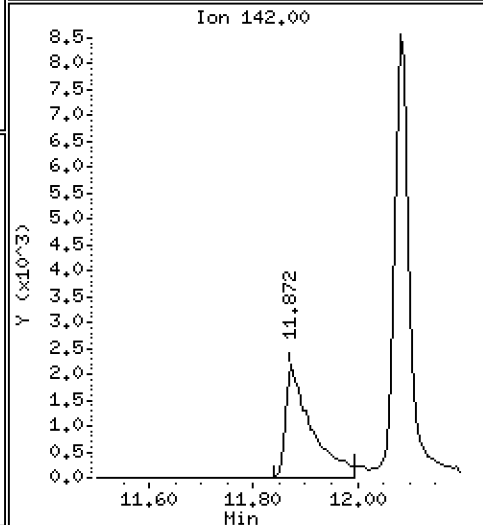
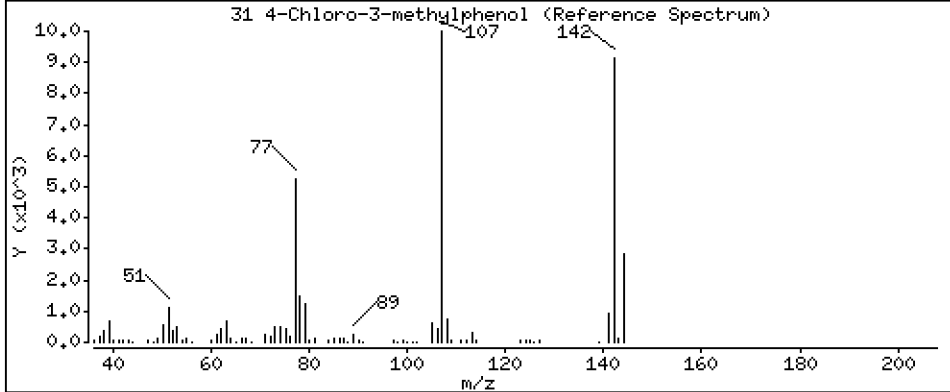
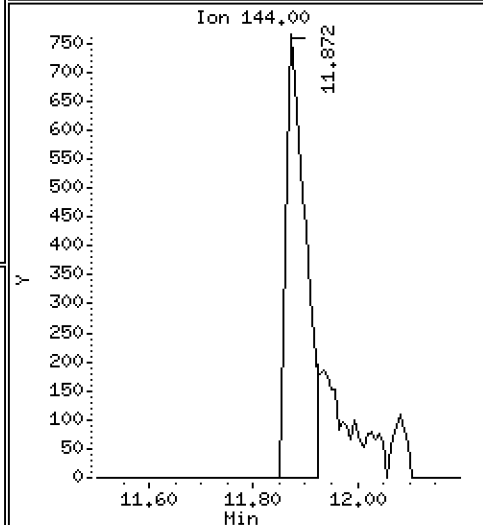
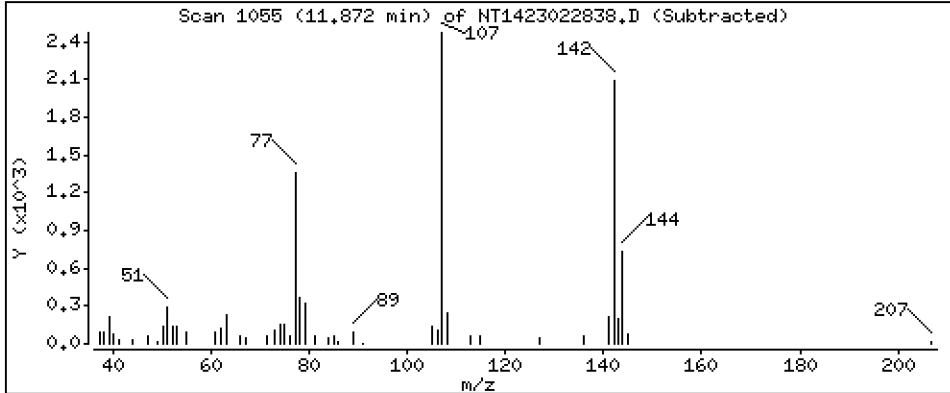
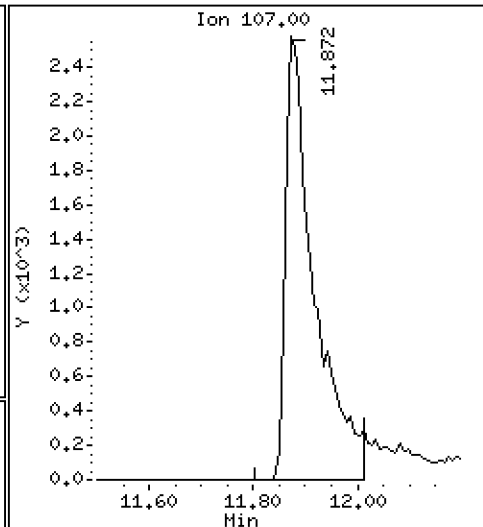
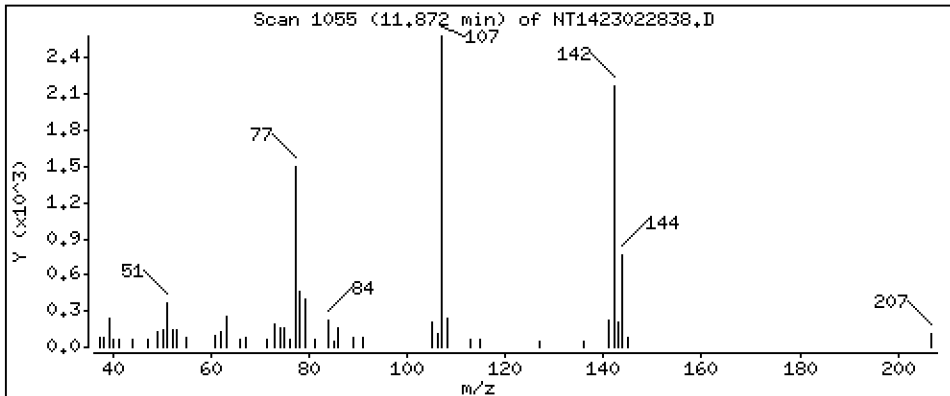
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,3257 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

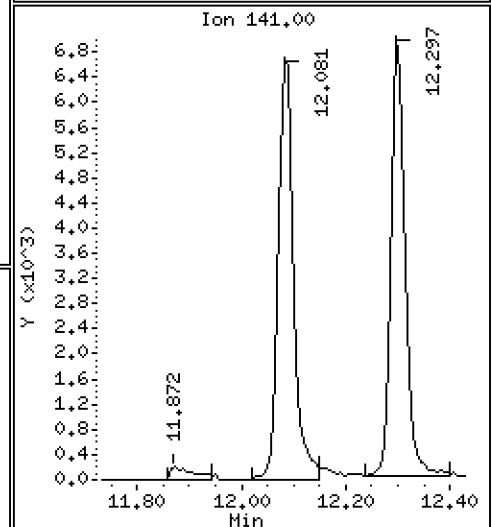
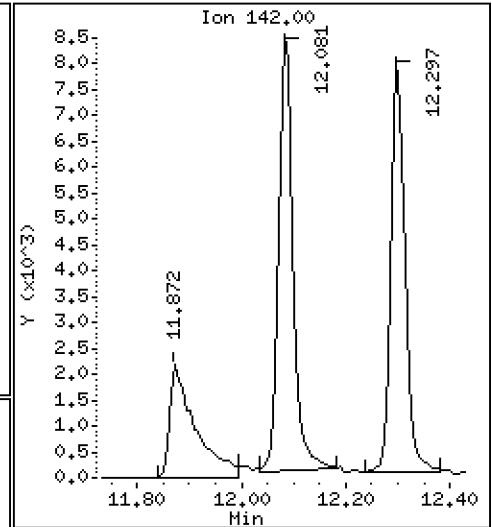
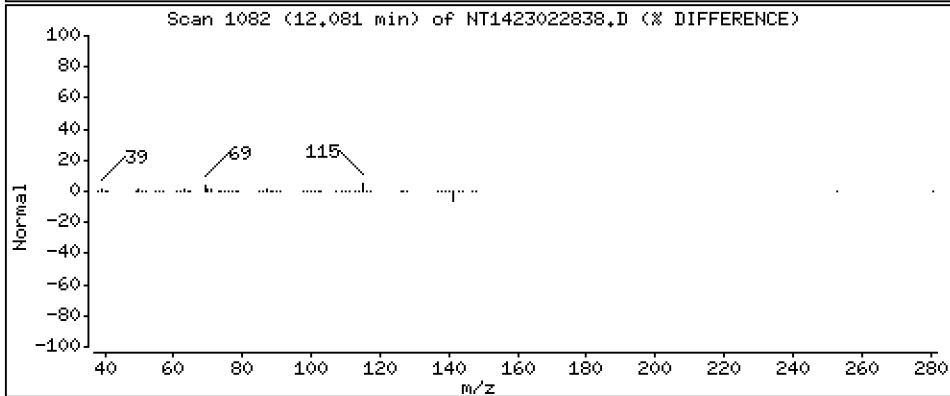
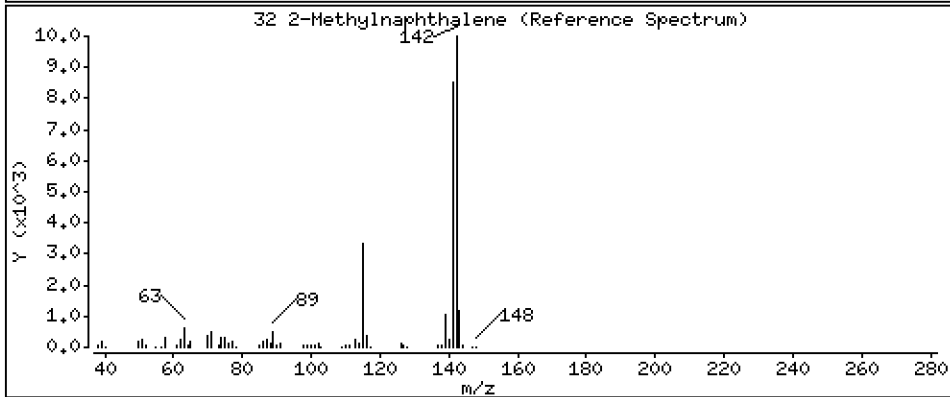
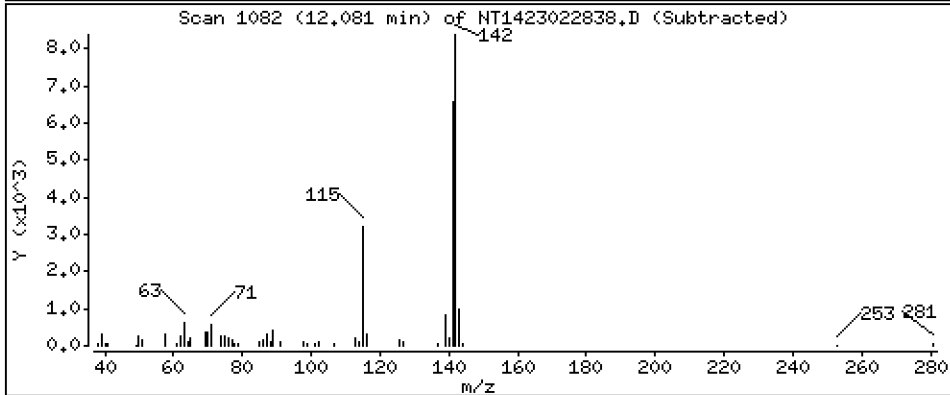
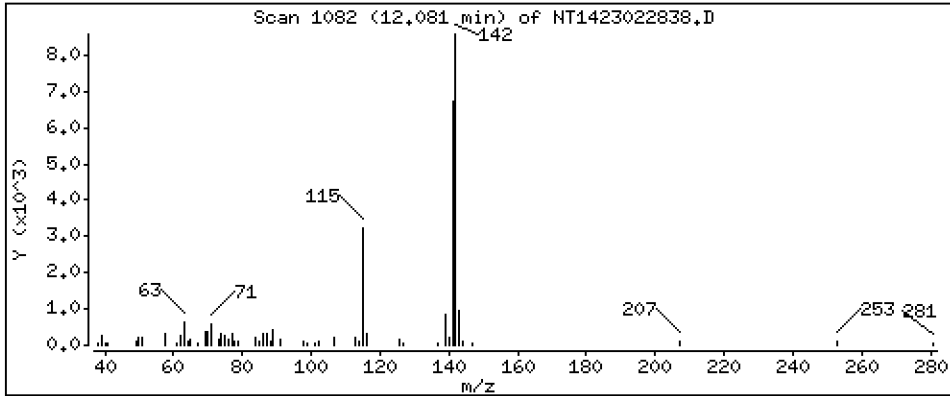
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1925 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

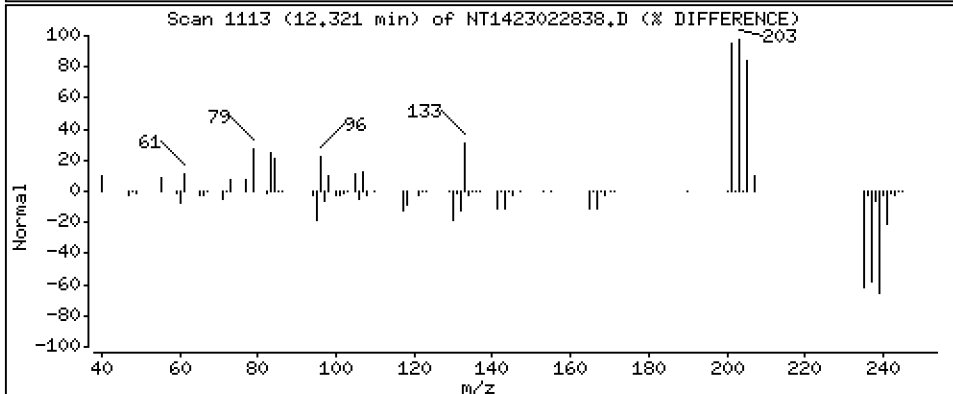
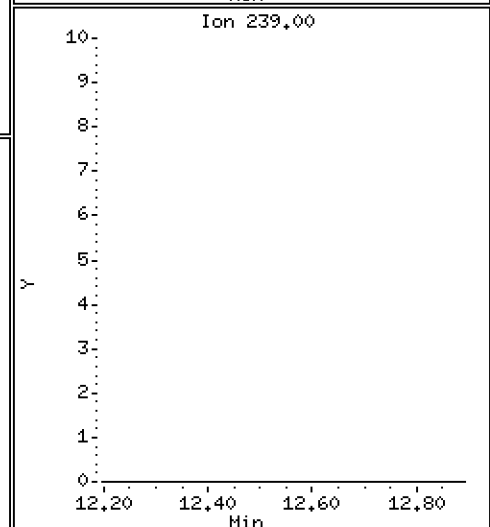
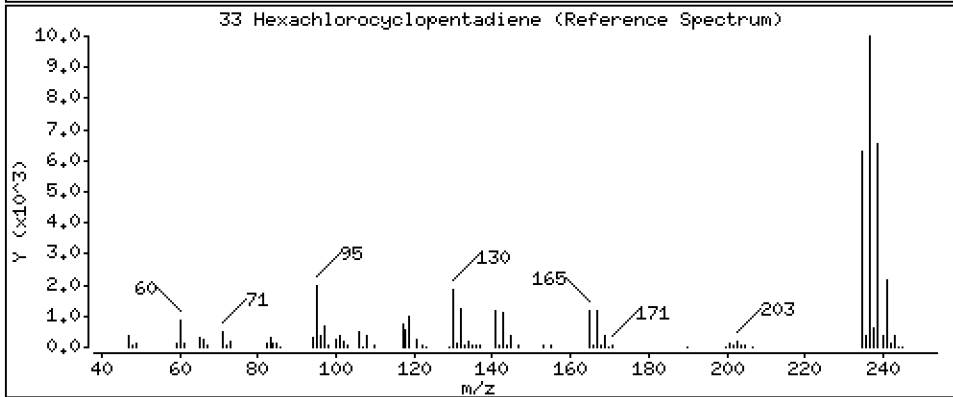
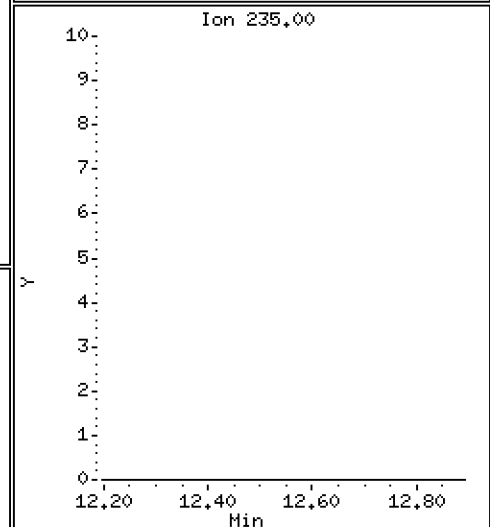
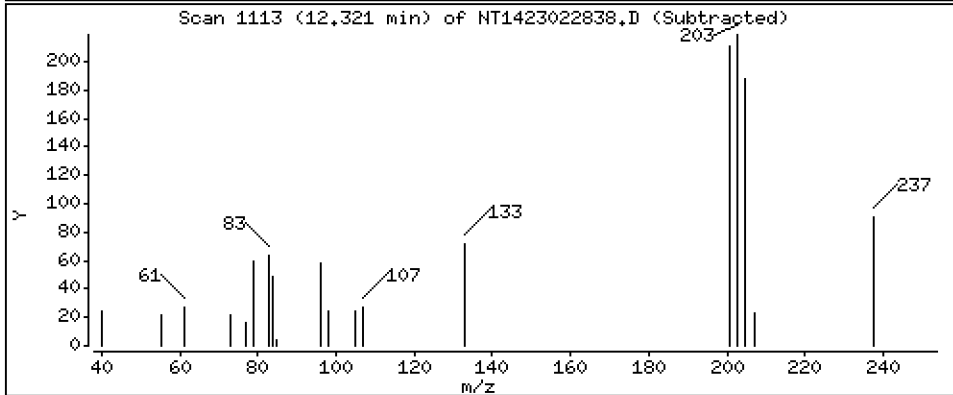
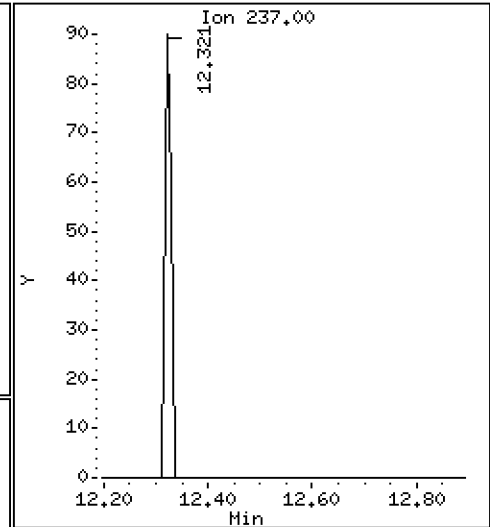
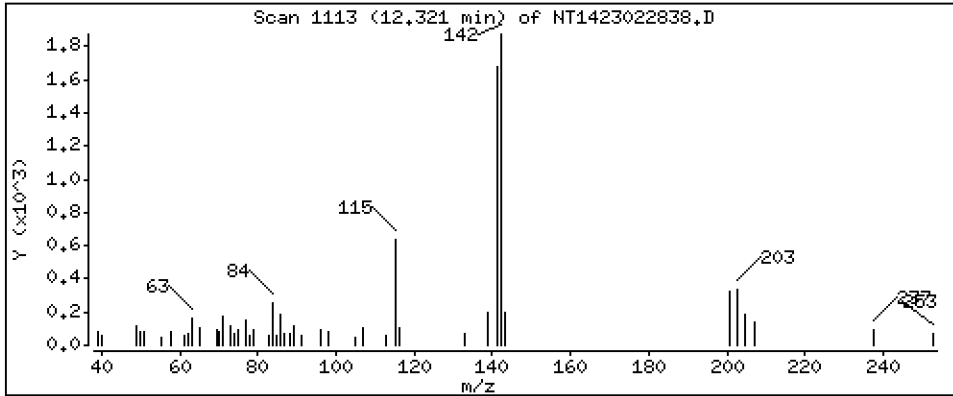
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,002849 ug/mL





Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

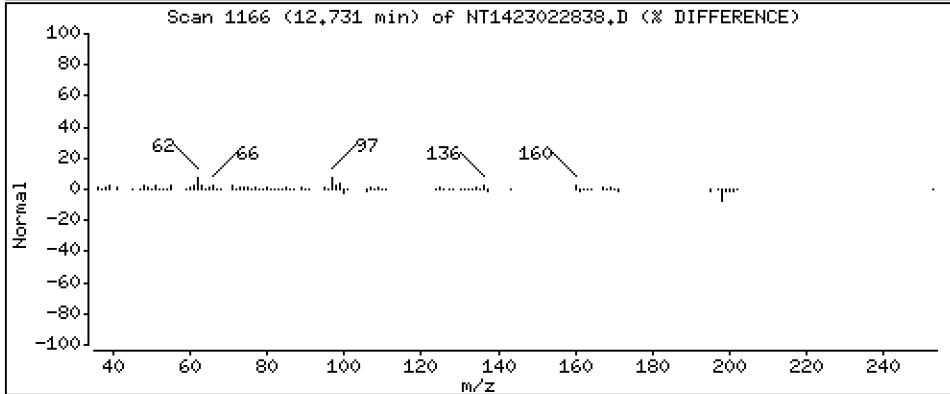
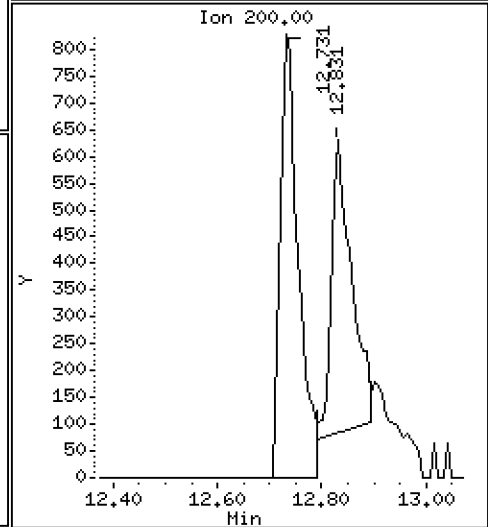
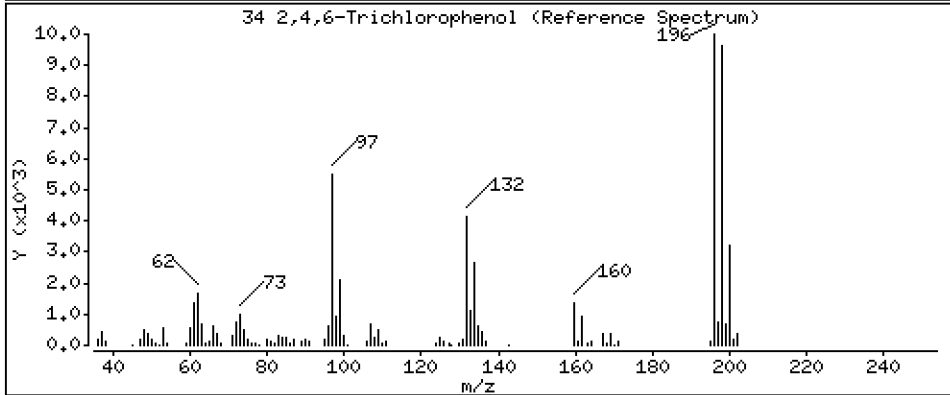
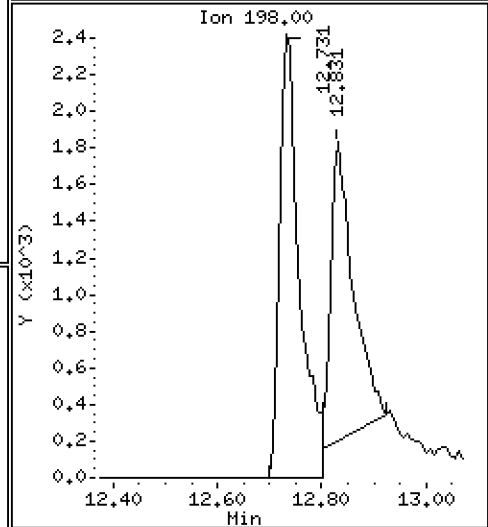
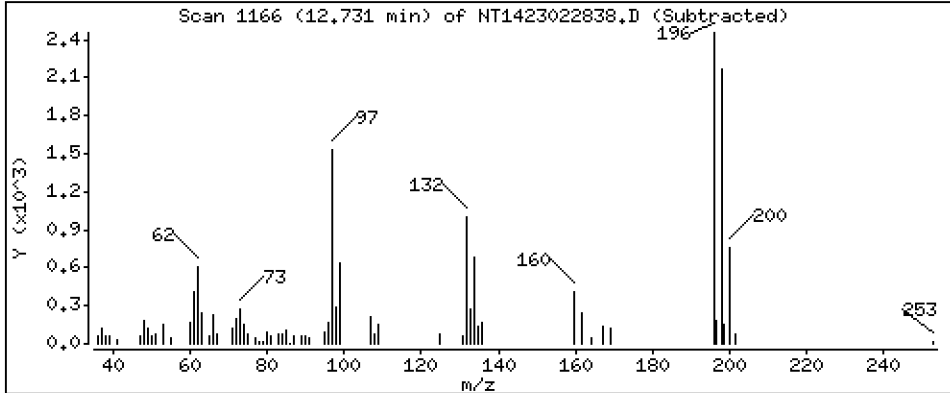
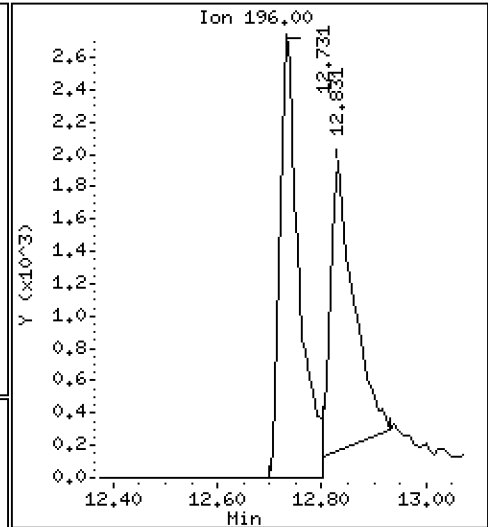
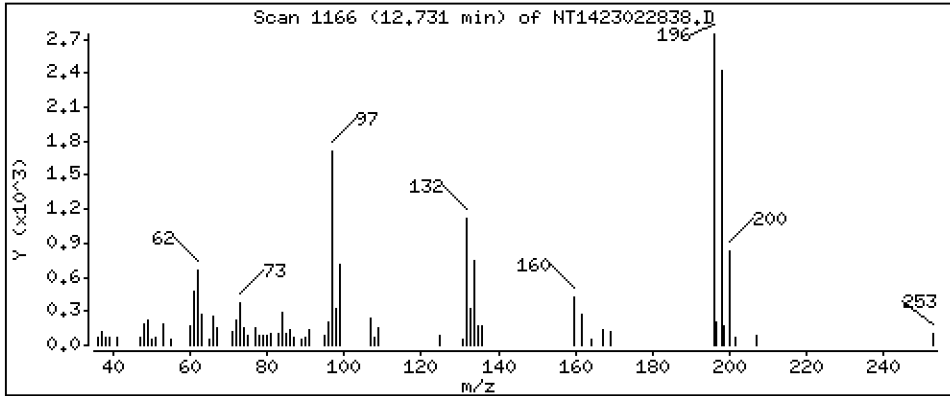
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

34 2,4,6-Trichlorophenol

Concentration: 0.3161 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

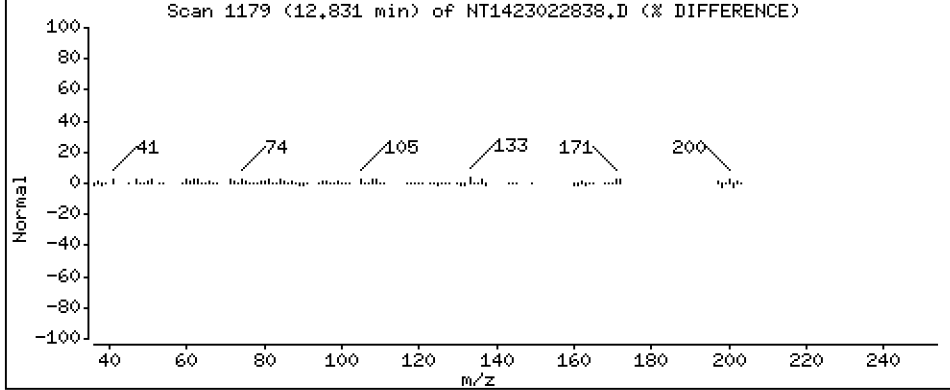
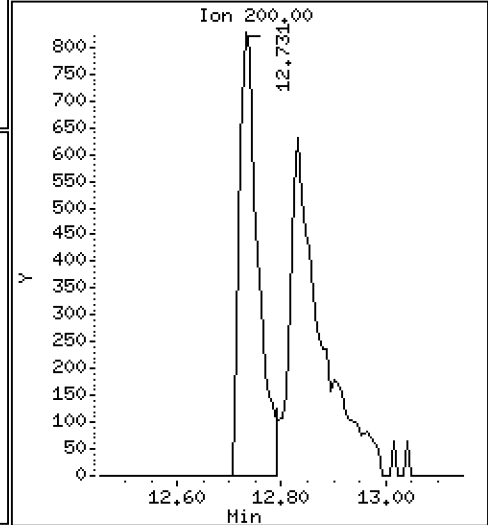
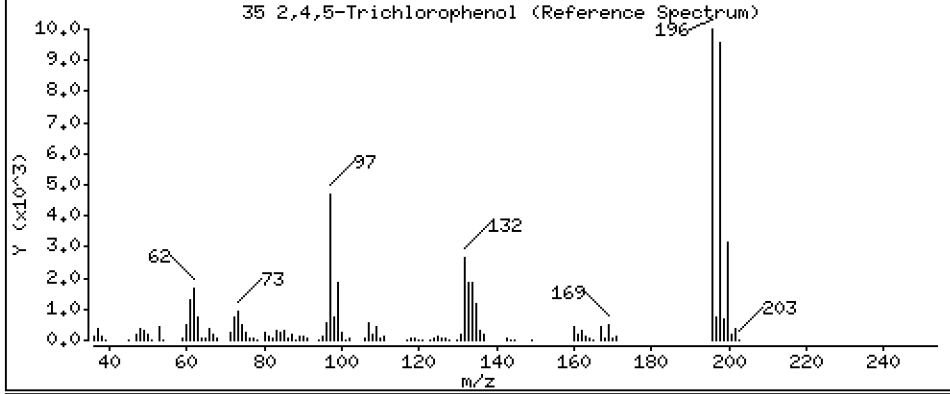
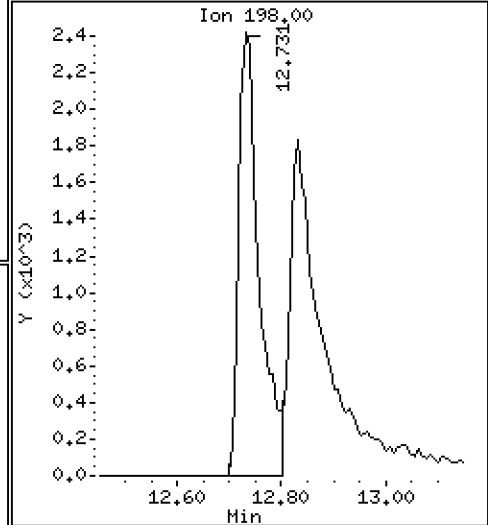
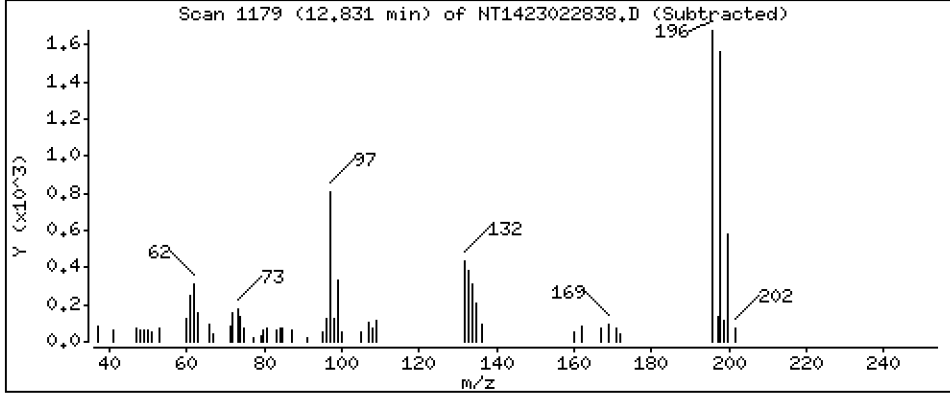
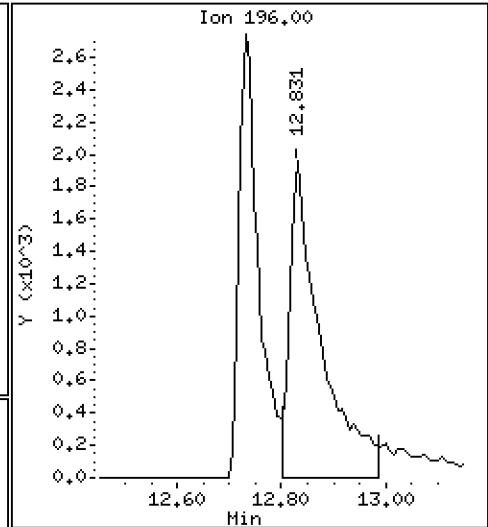
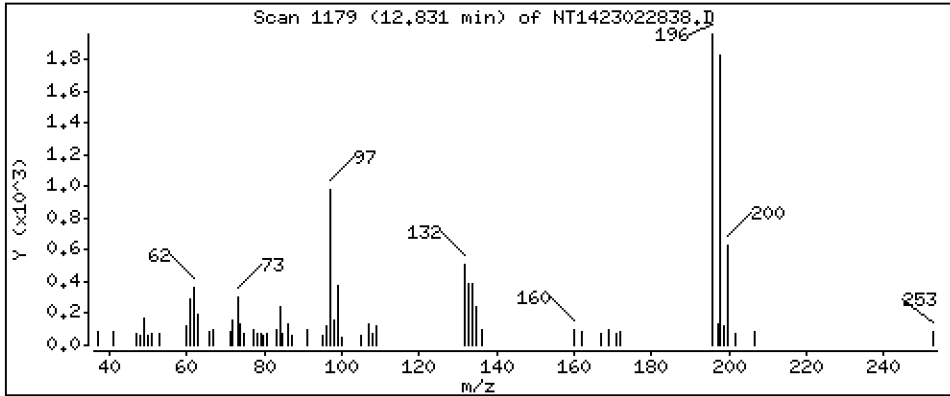
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,3462 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

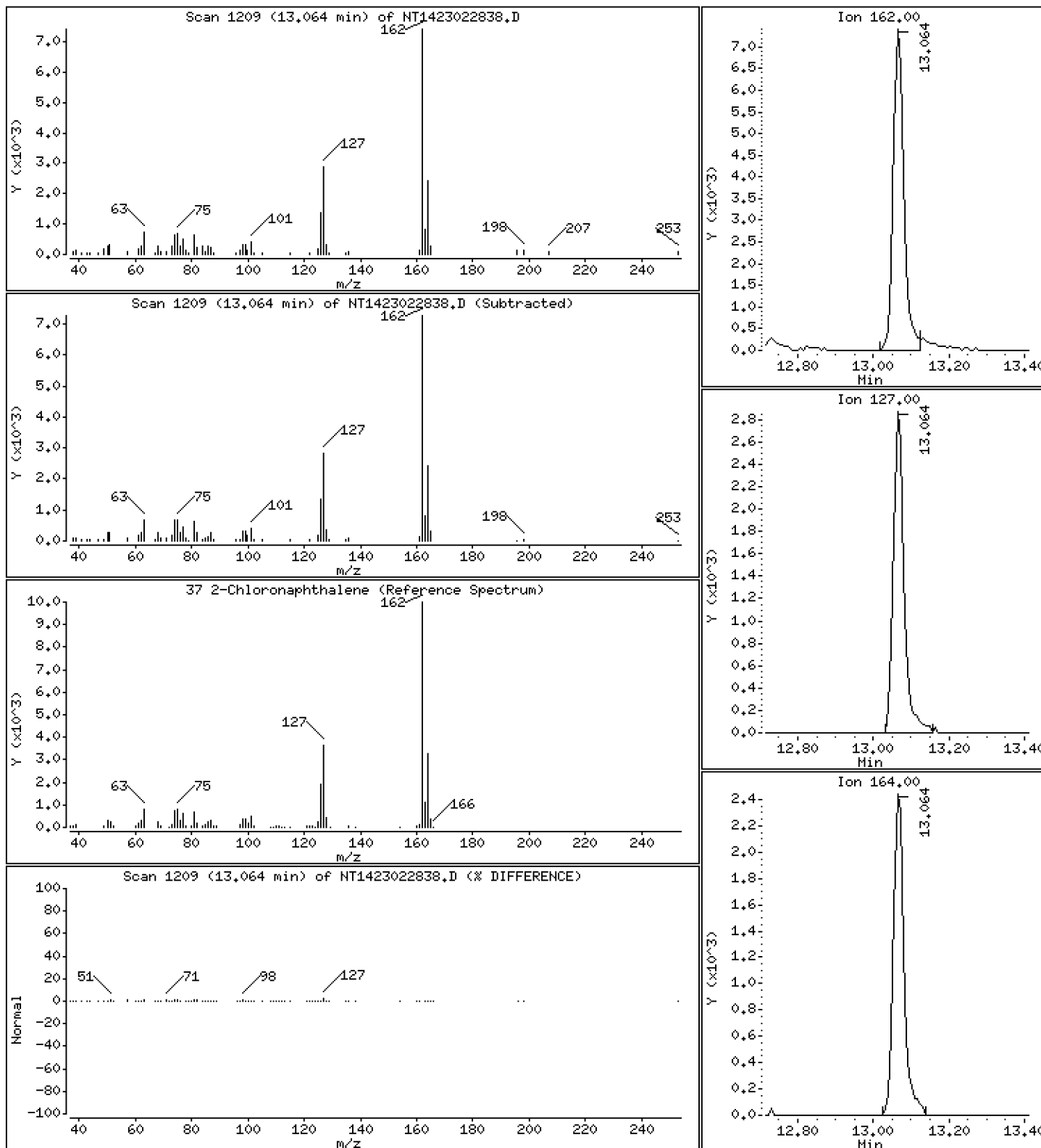
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,1970 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

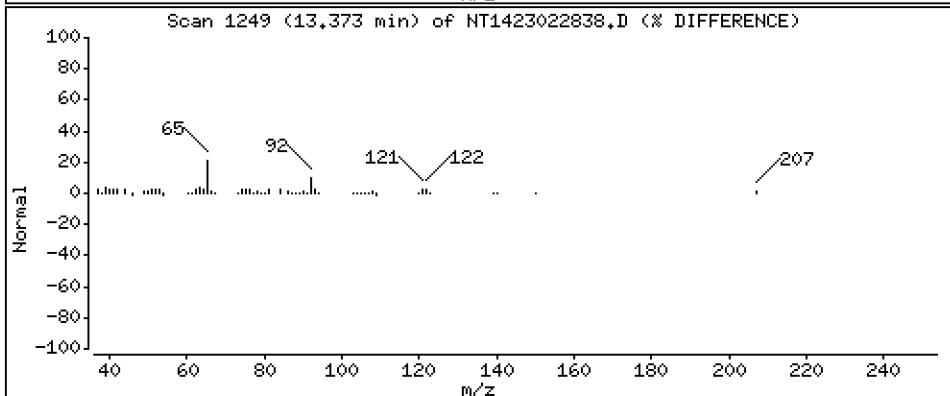
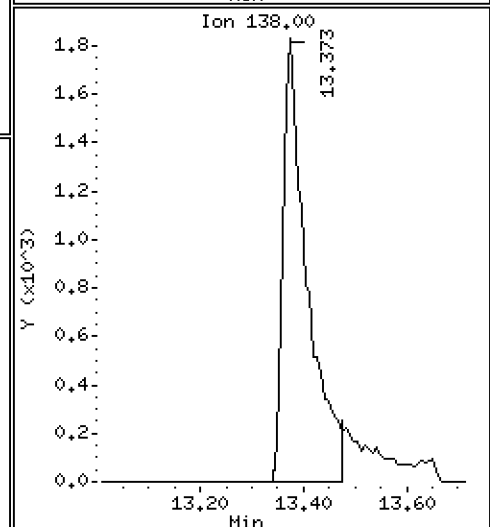
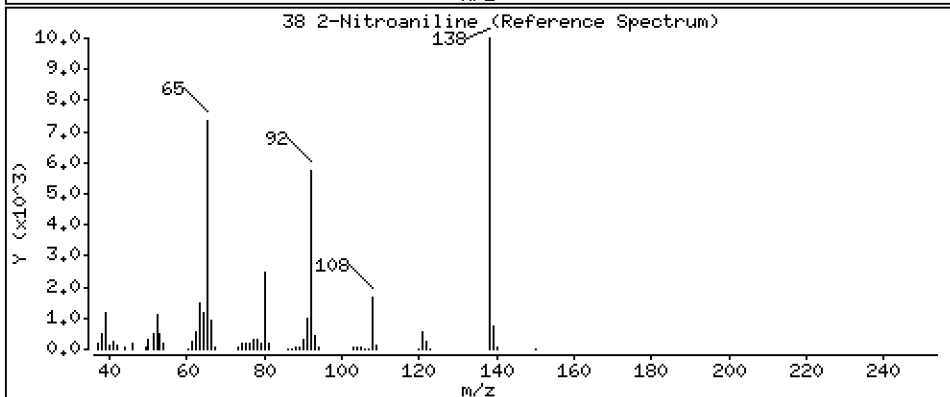
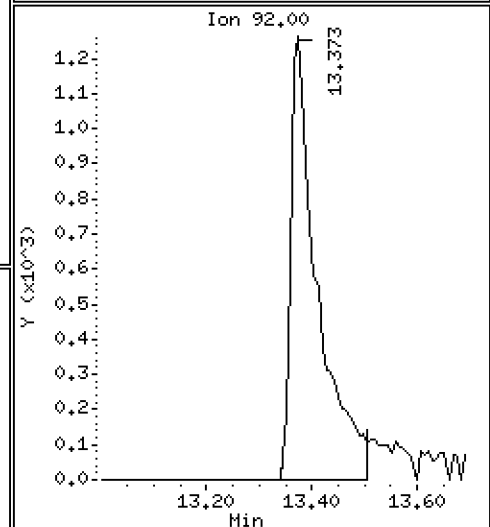
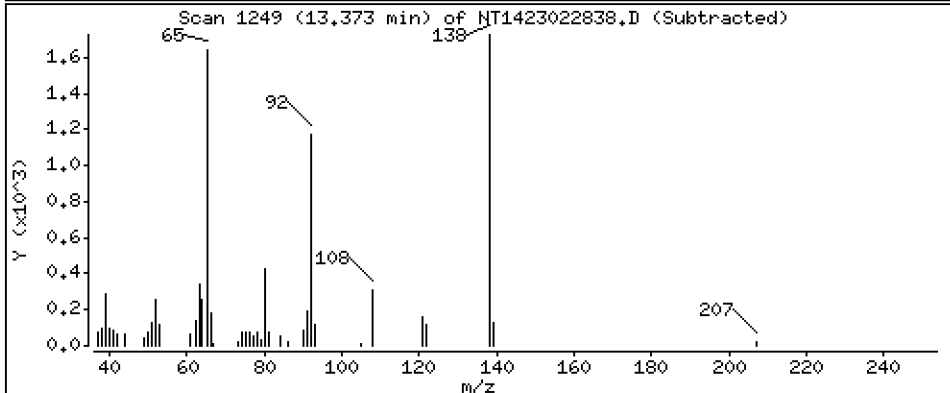
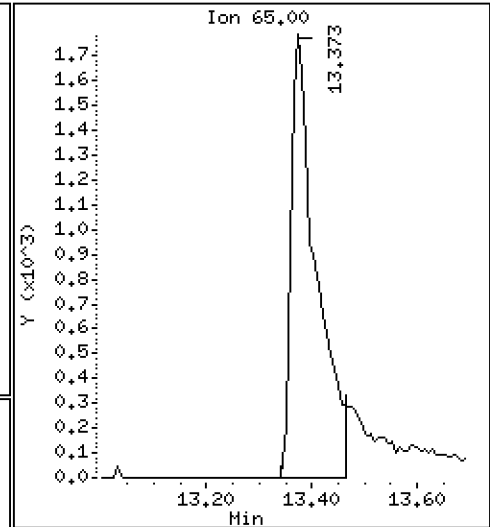
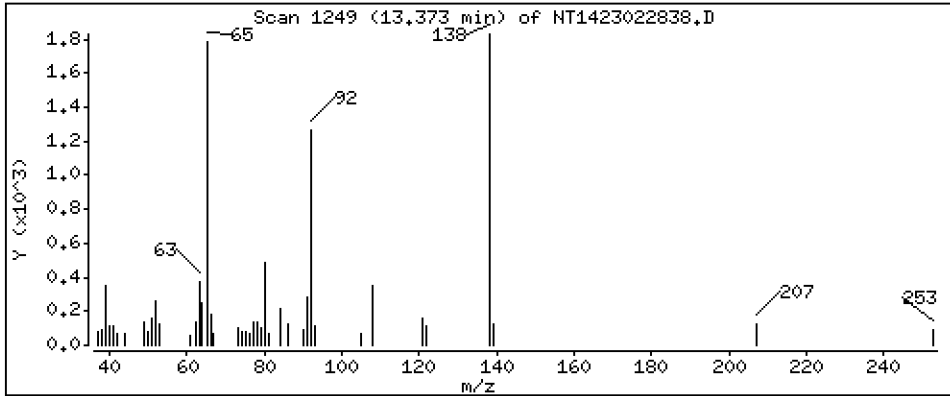
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,3308 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

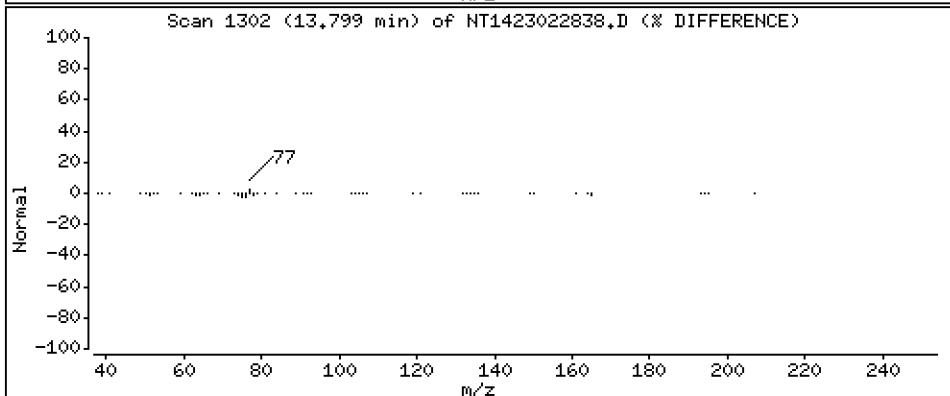
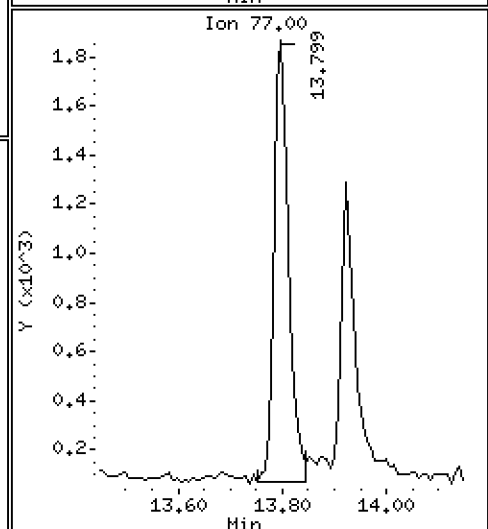
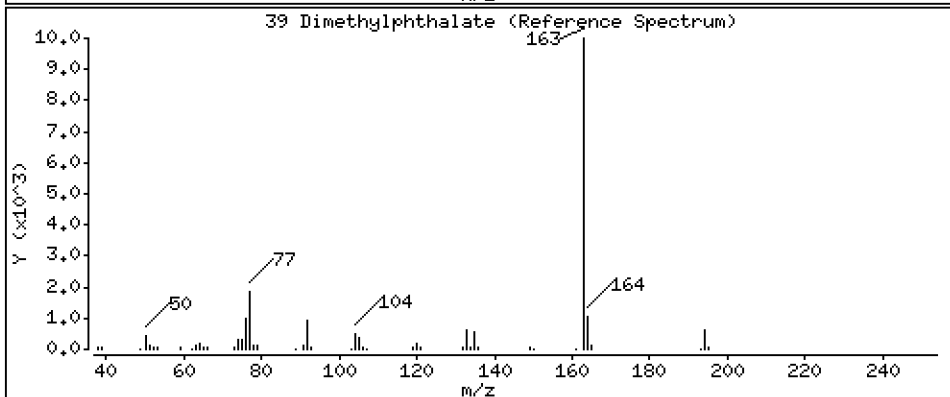
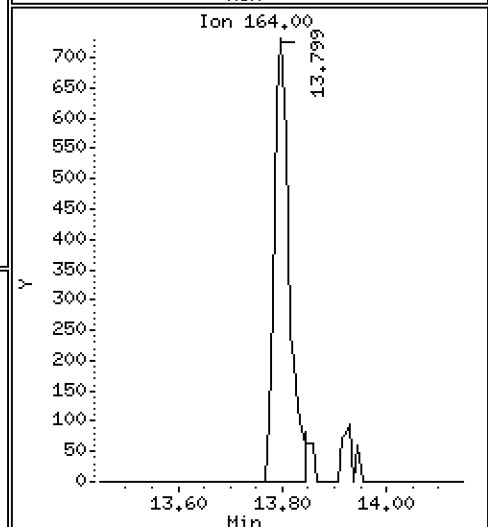
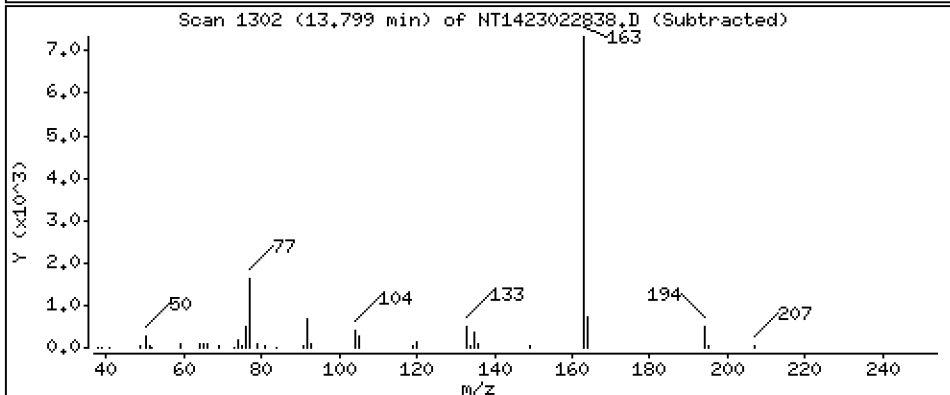
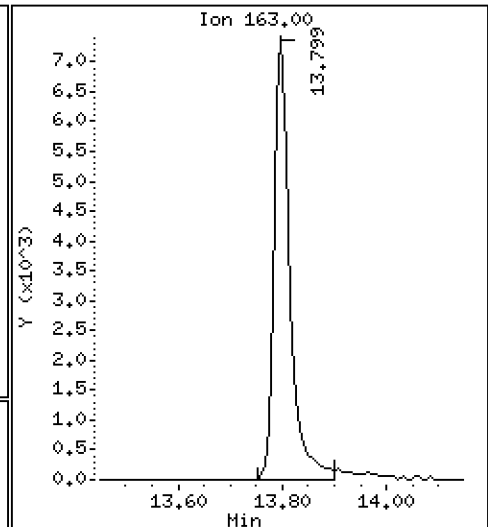
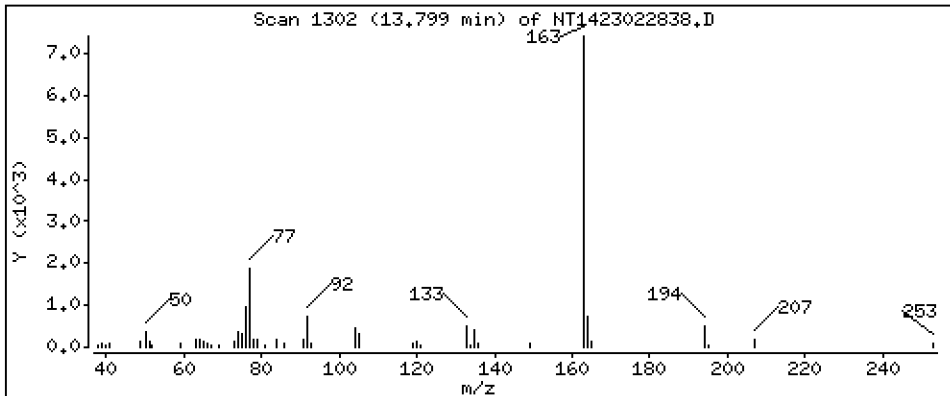
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2095 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

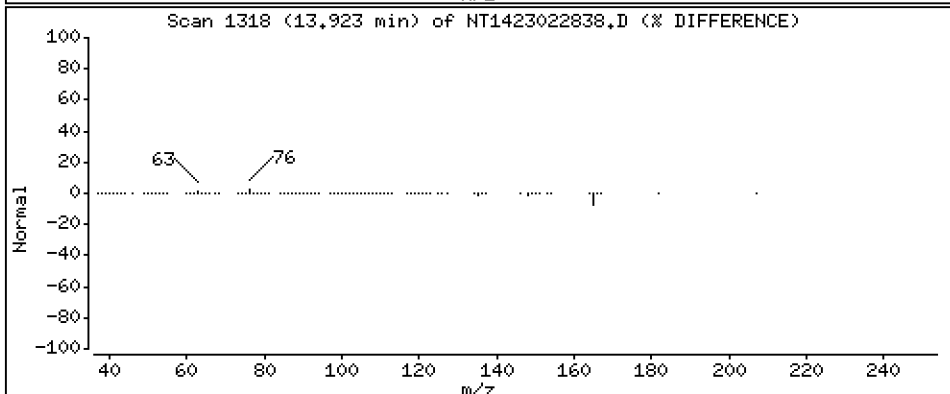
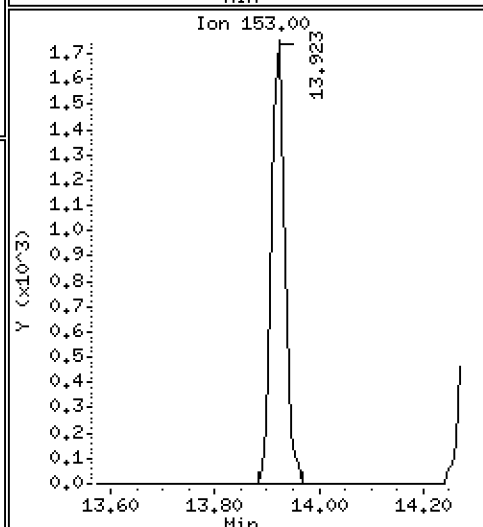
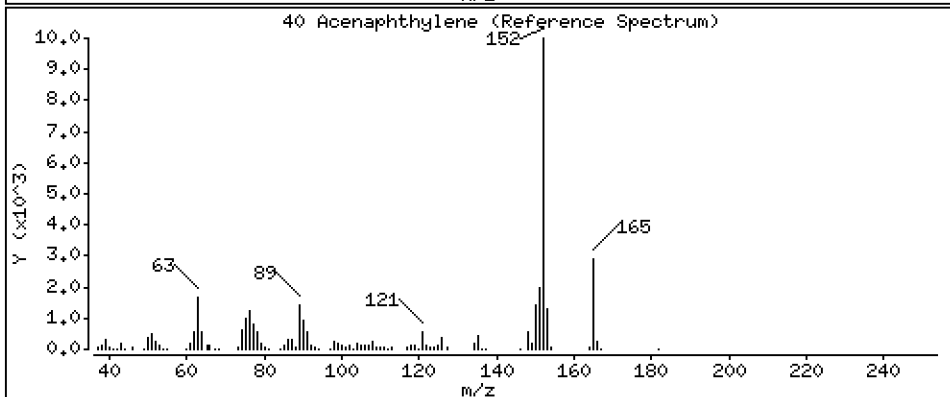
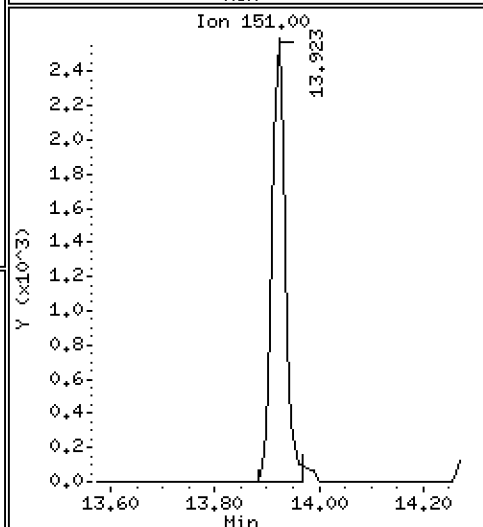
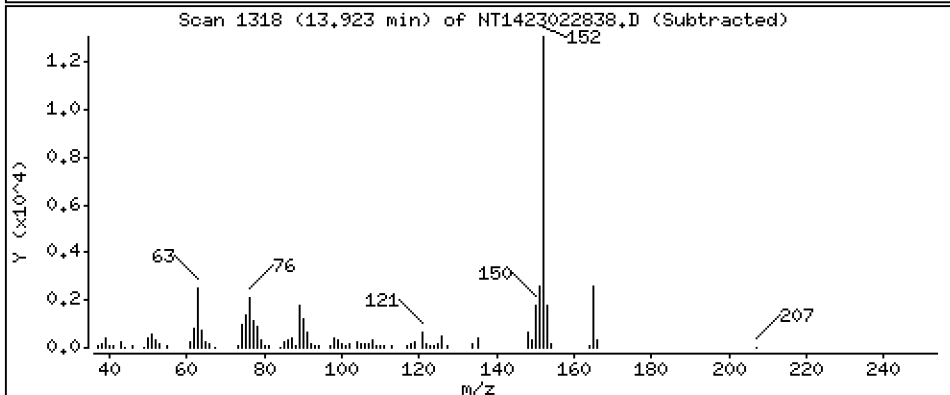
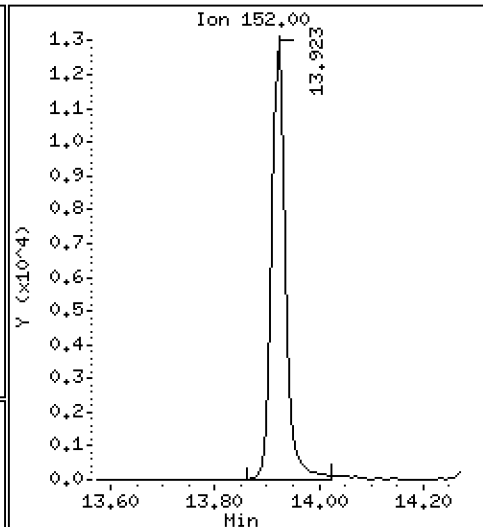
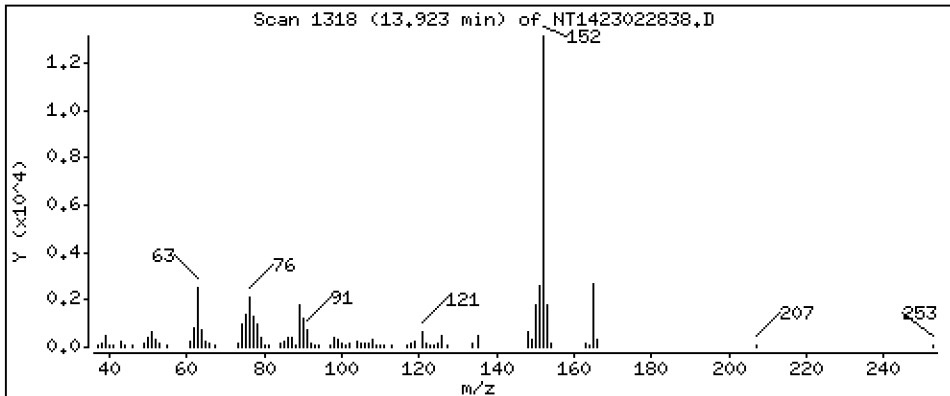
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2206 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

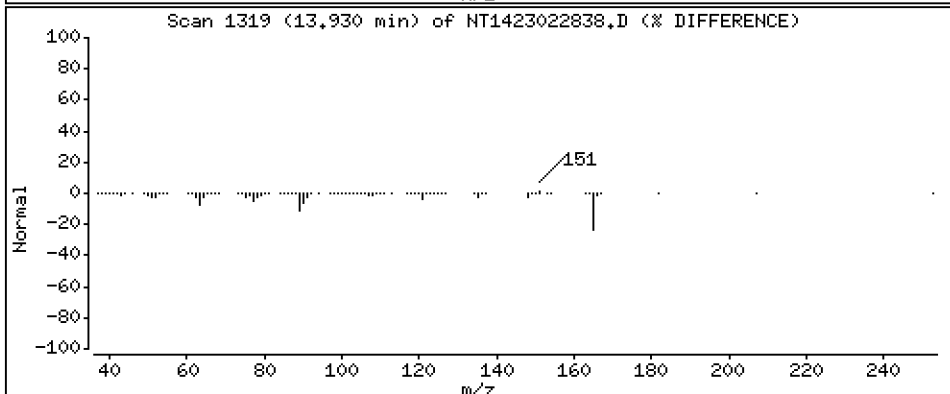
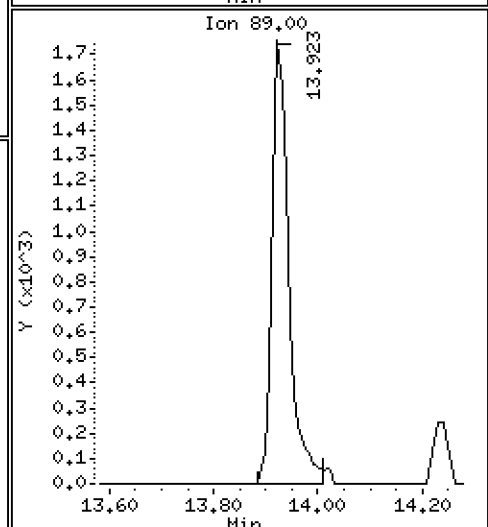
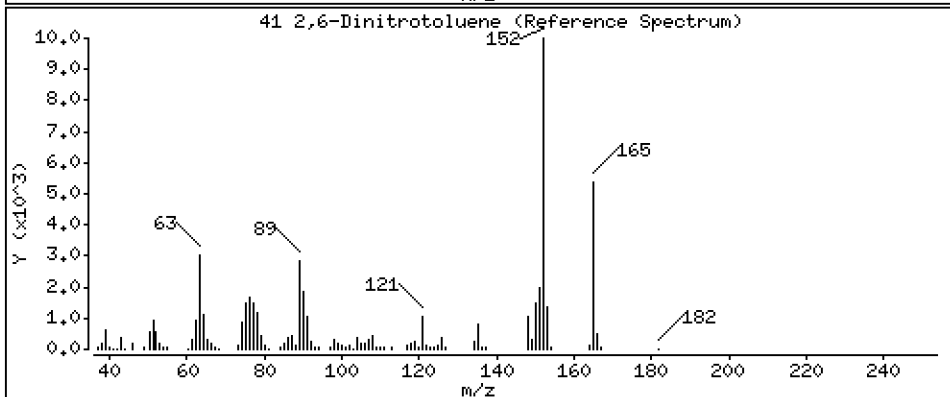
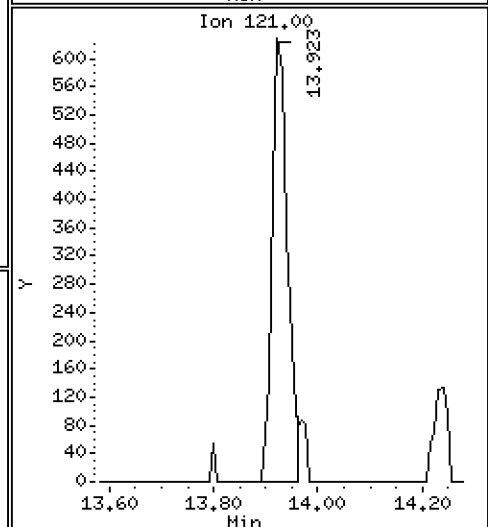
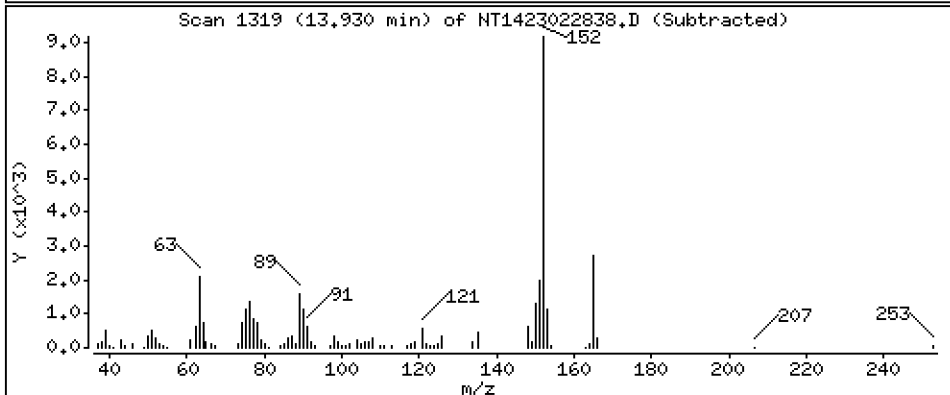
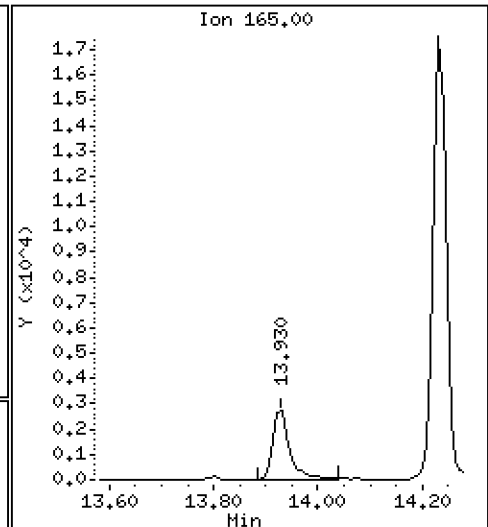
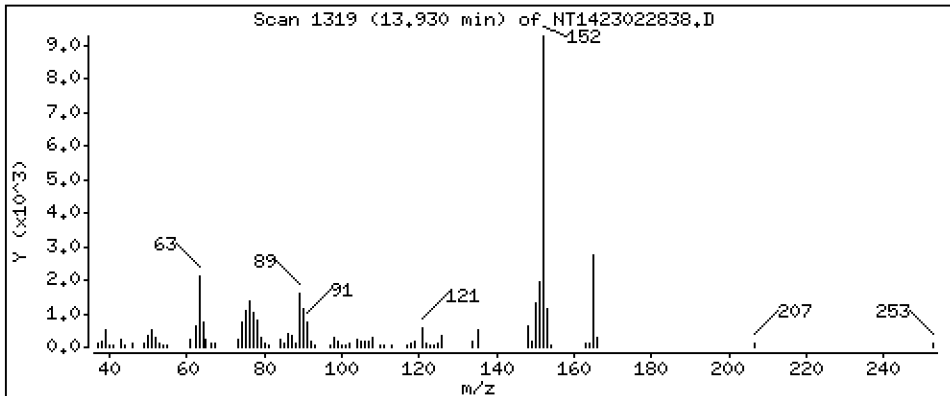
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 0.3629 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

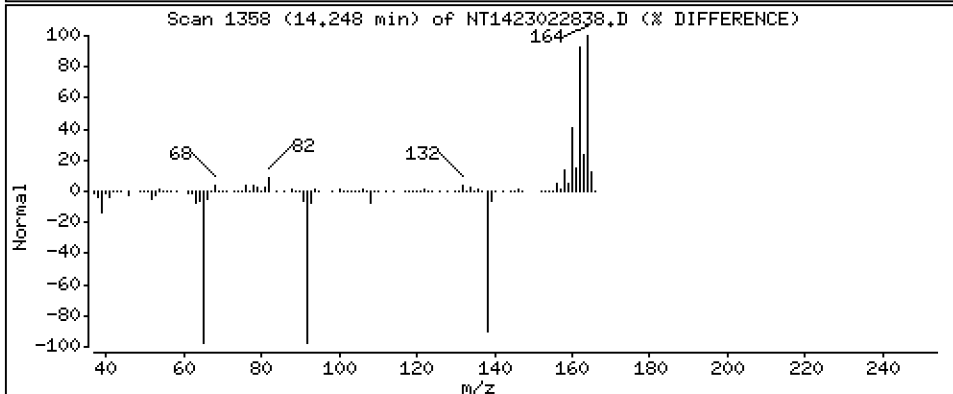
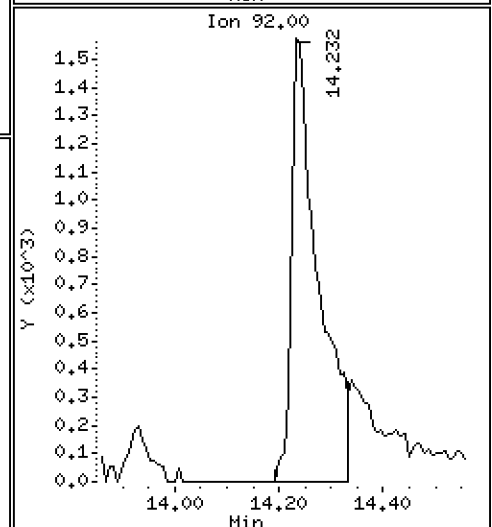
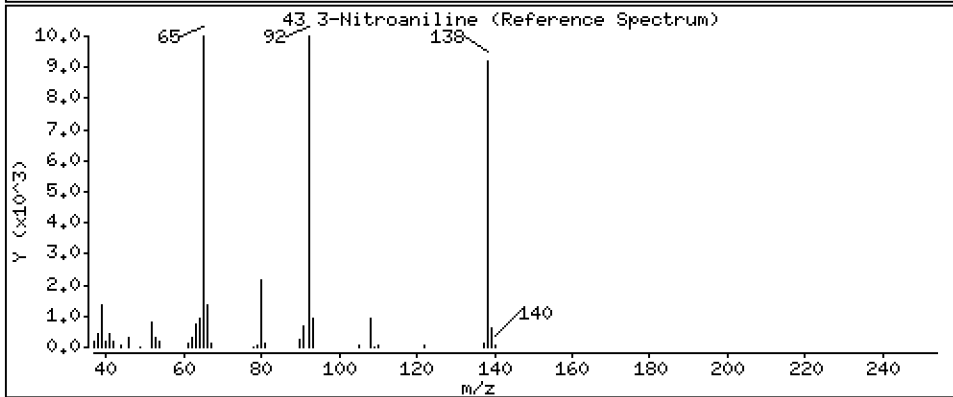
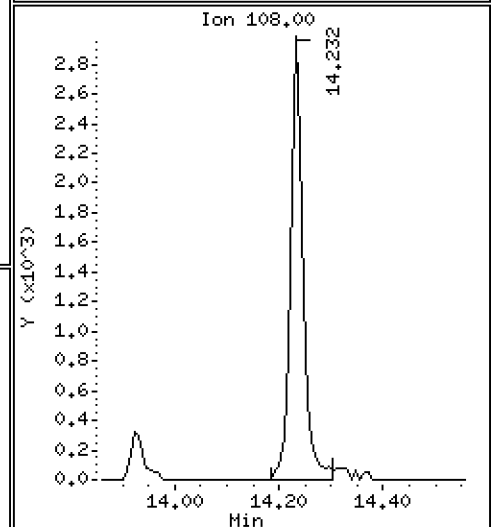
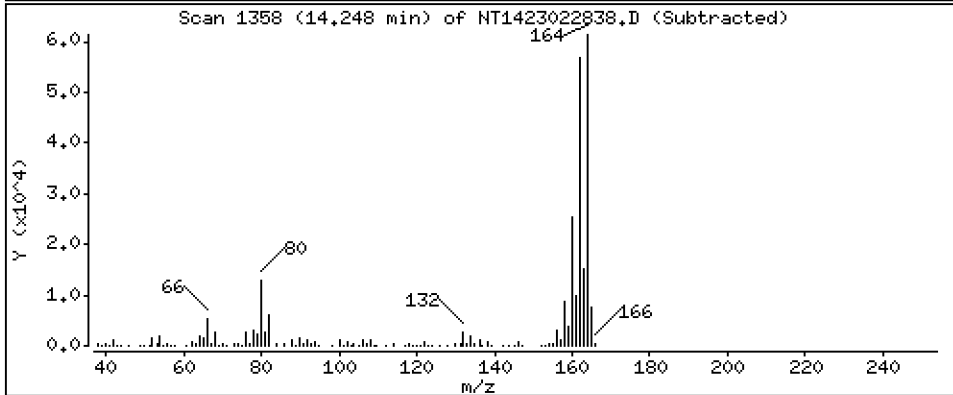
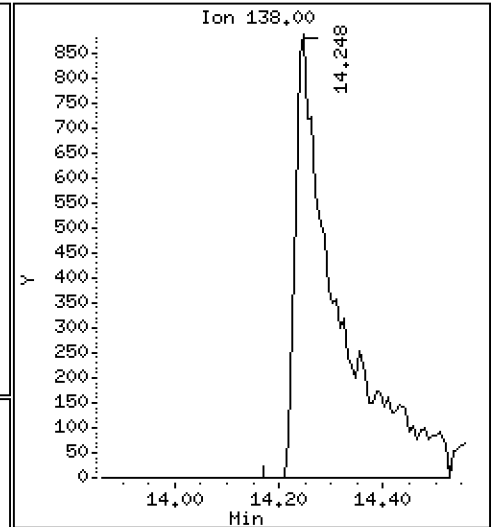
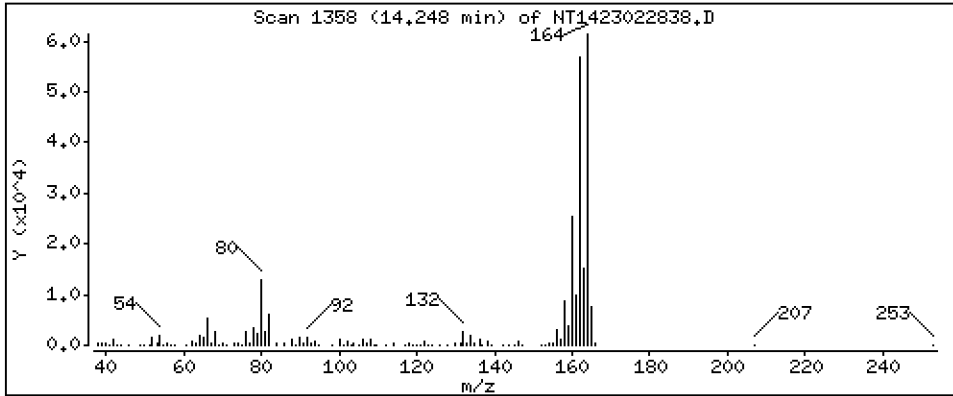
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,2929 ug/mL





Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

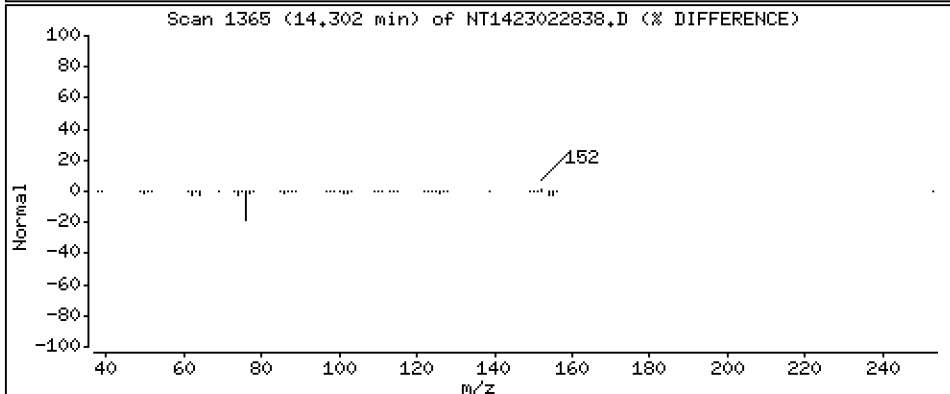
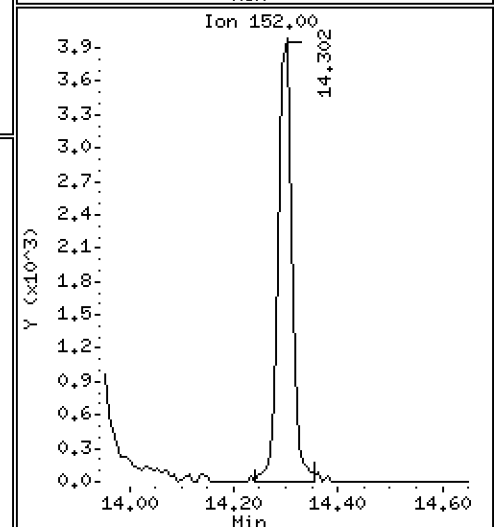
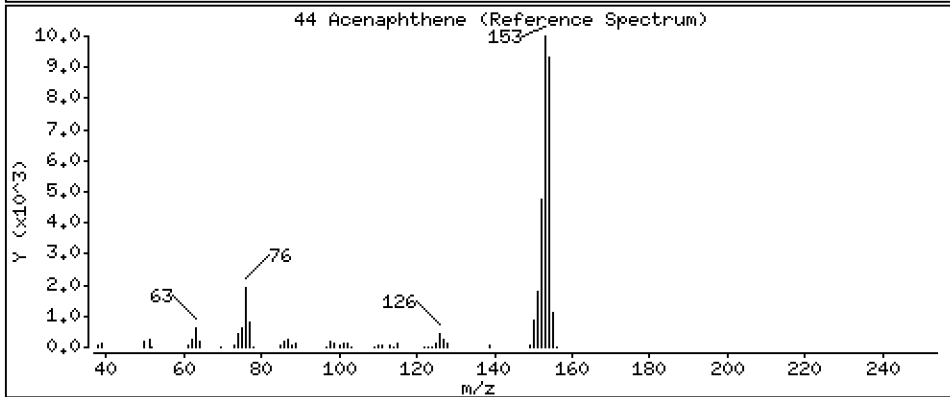
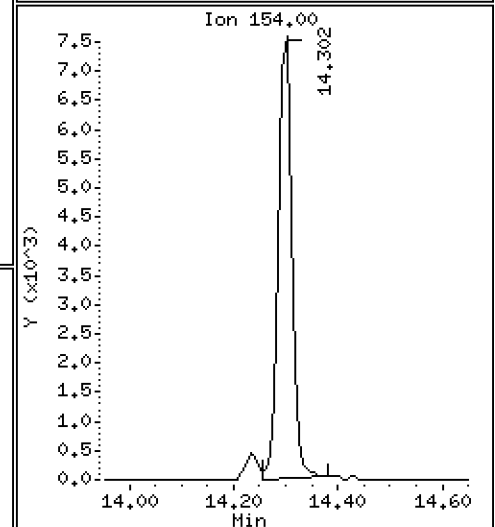
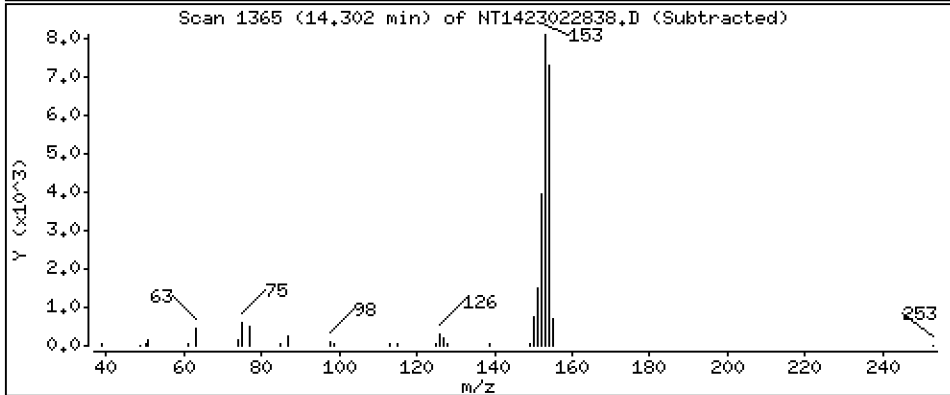
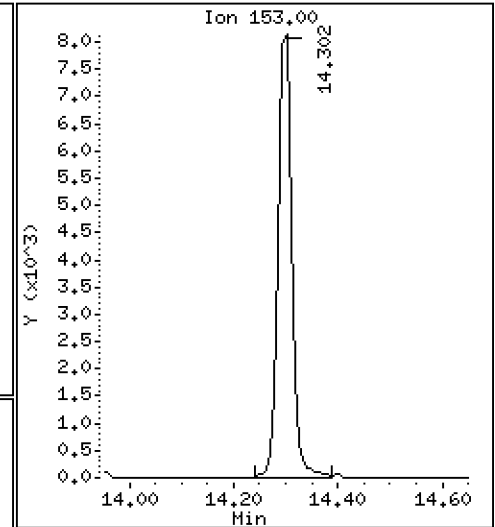
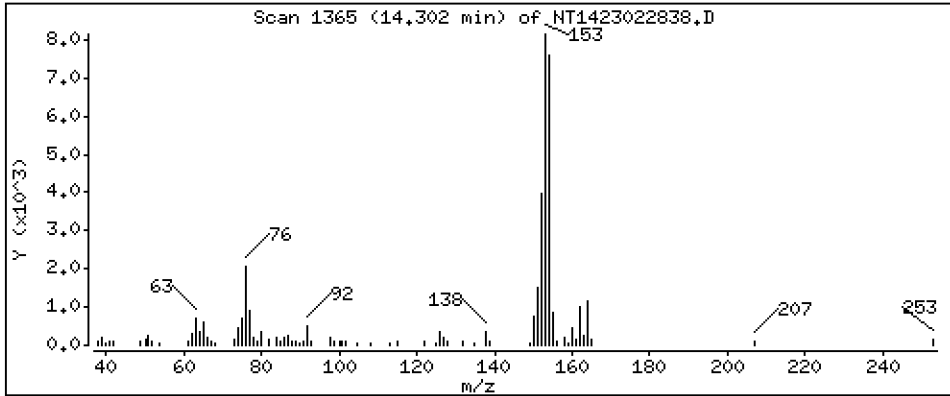
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,2124 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

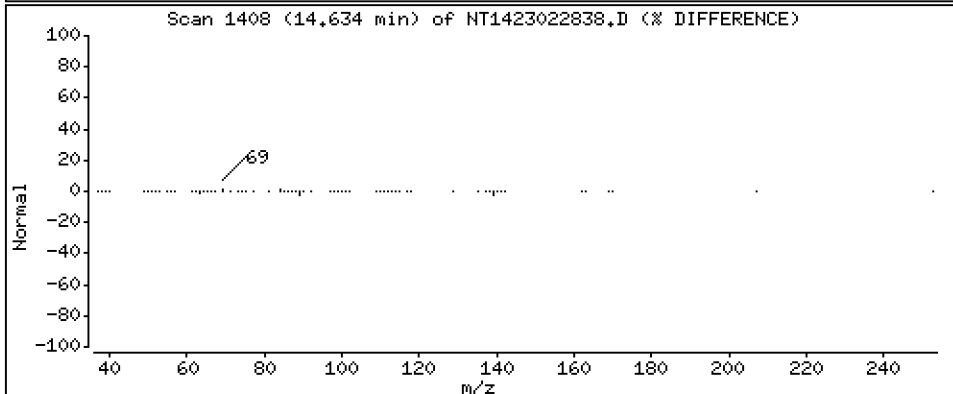
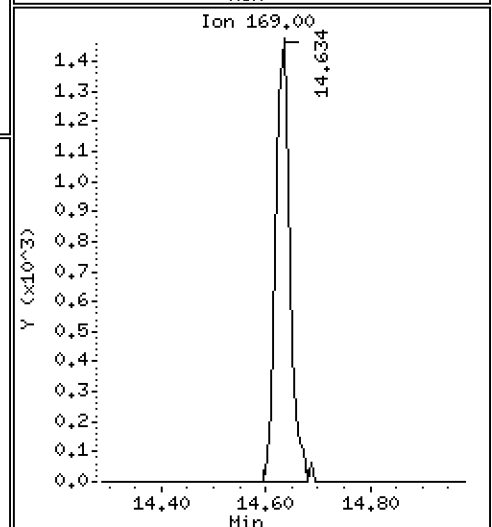
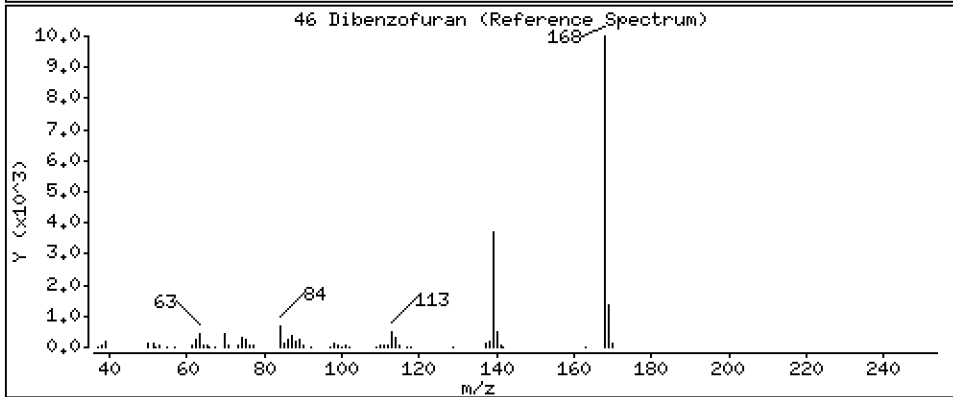
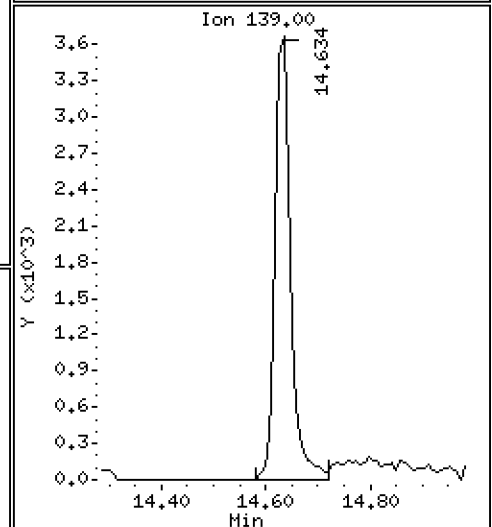
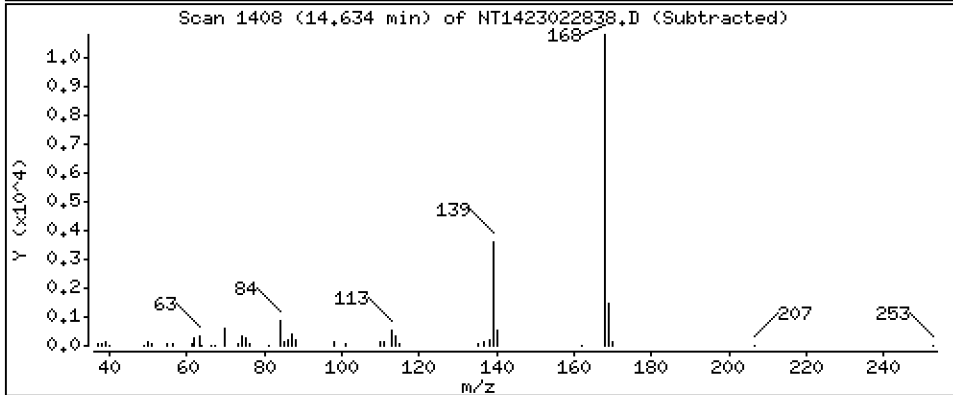
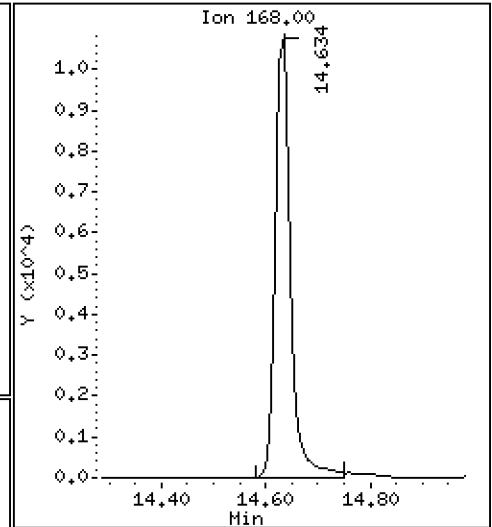
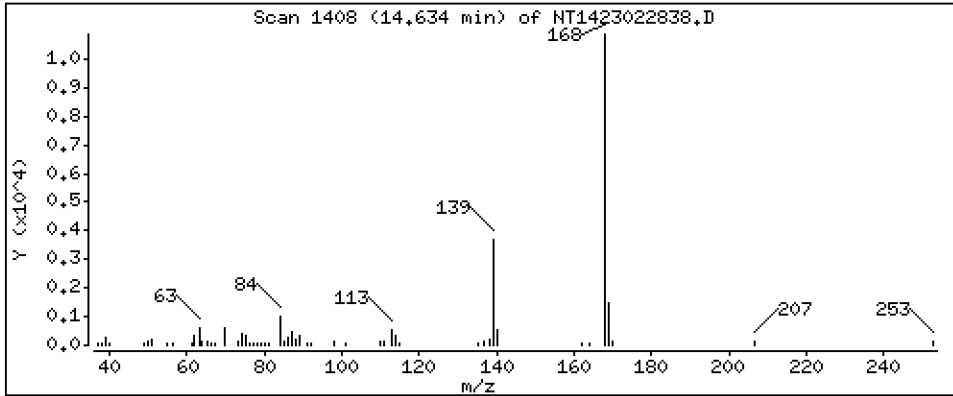
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,1981 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

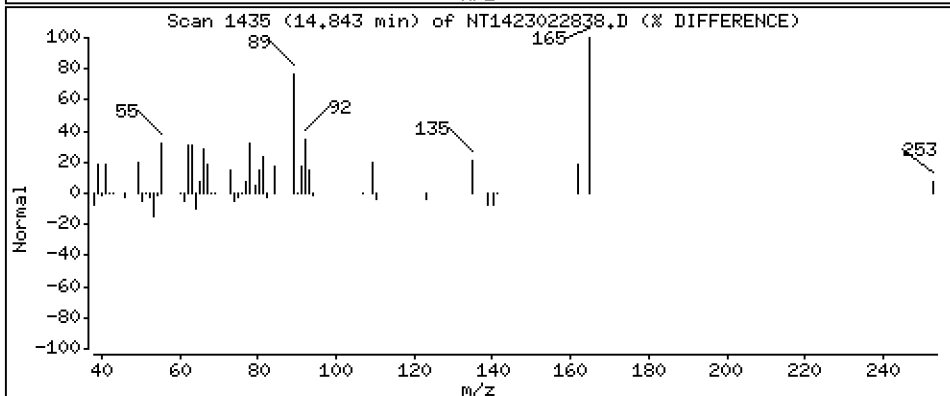
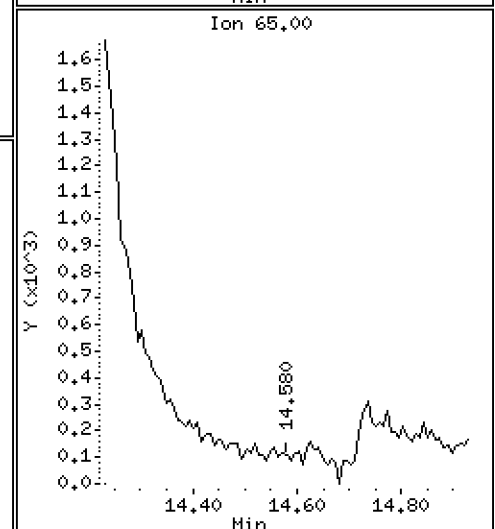
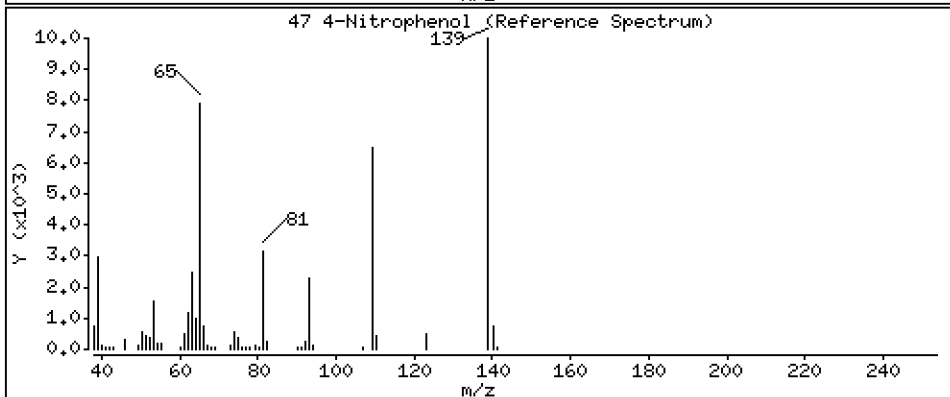
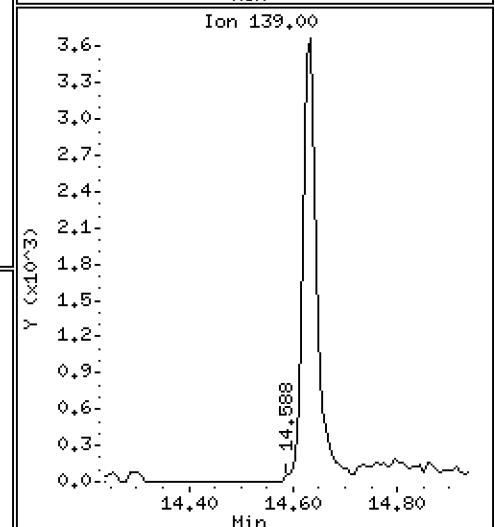
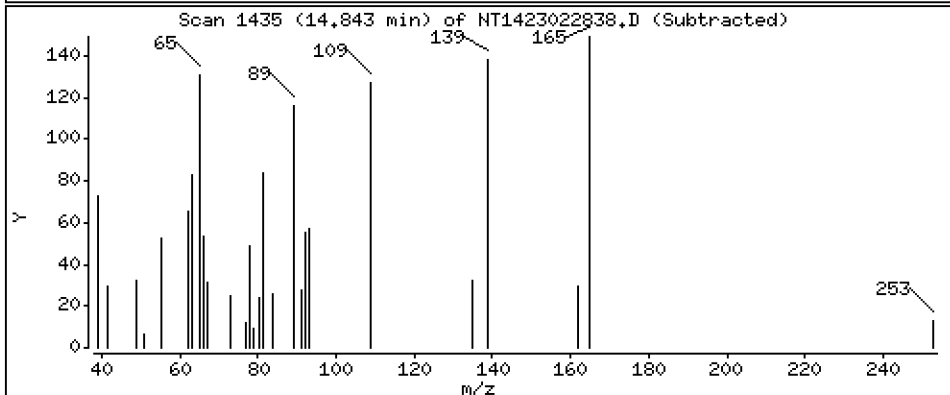
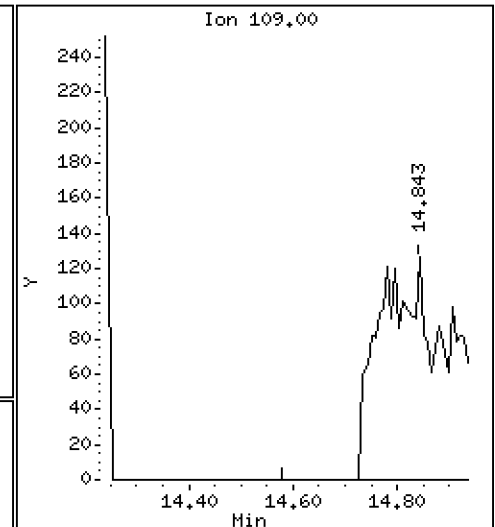
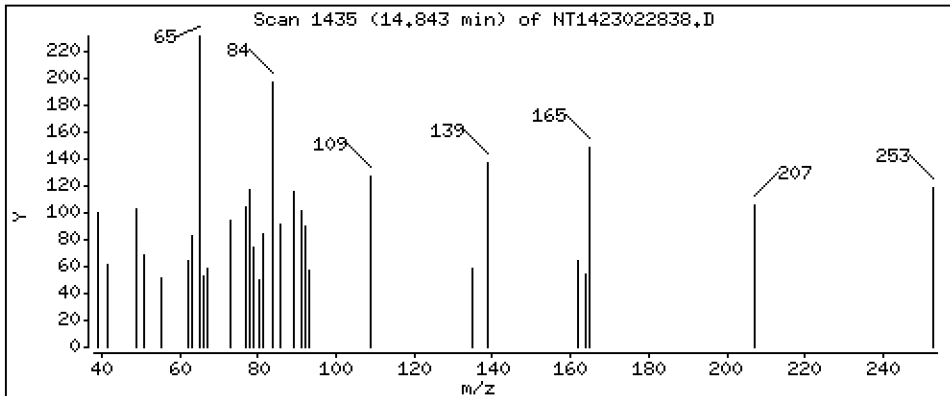
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

47 4-Nitrophenol

Concentration: 0.2077 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

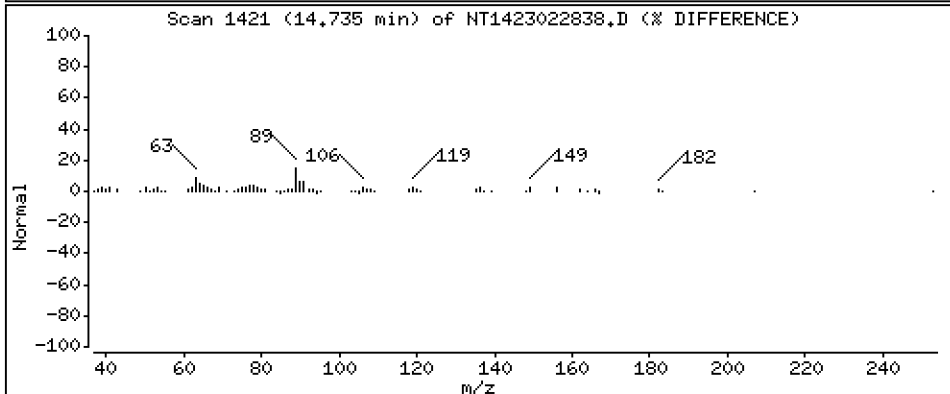
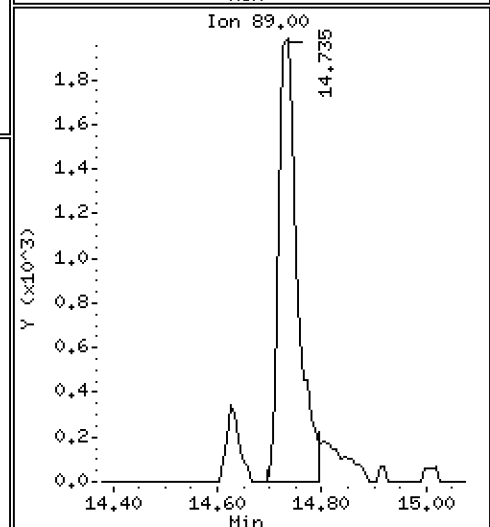
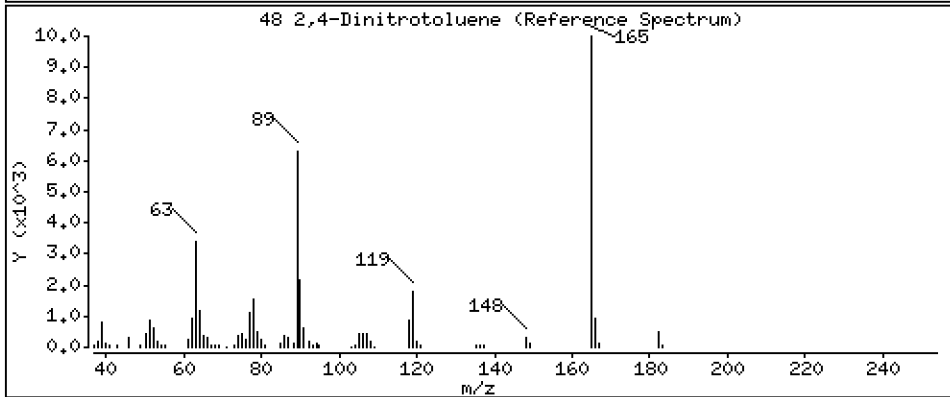
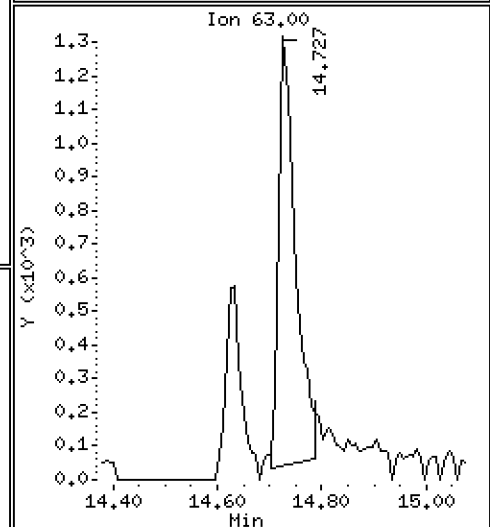
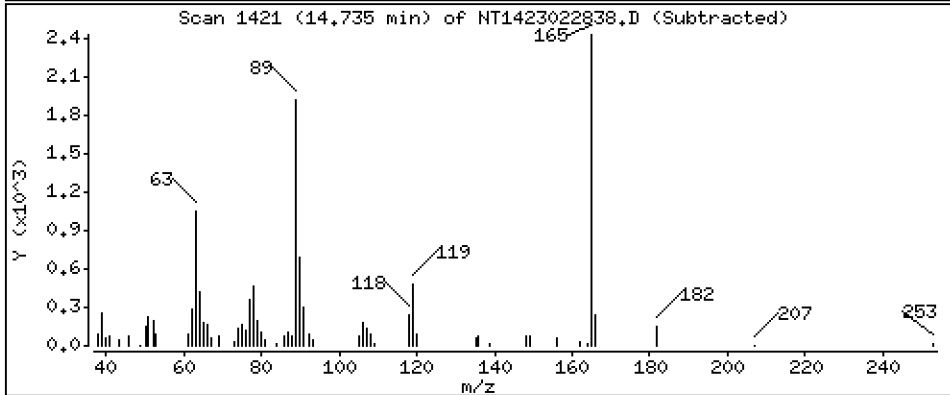
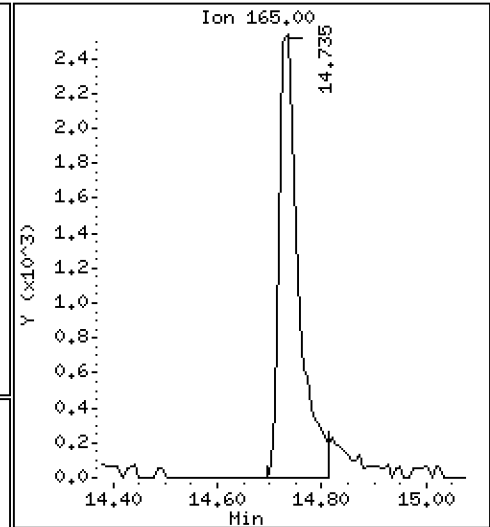
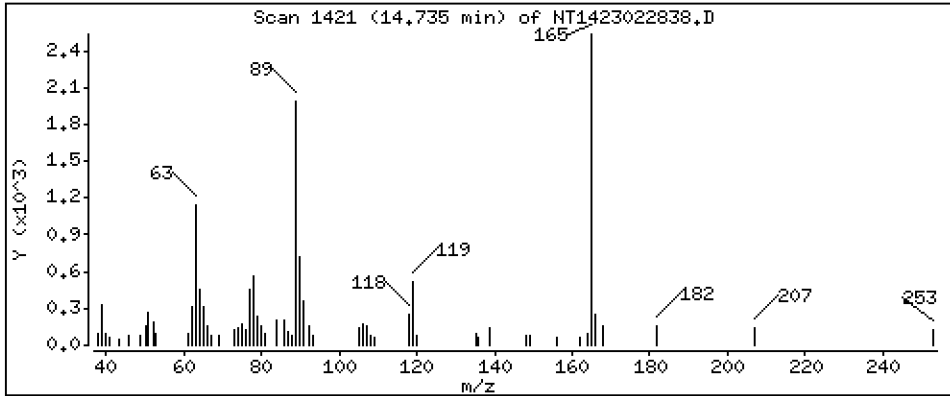
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.2661 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

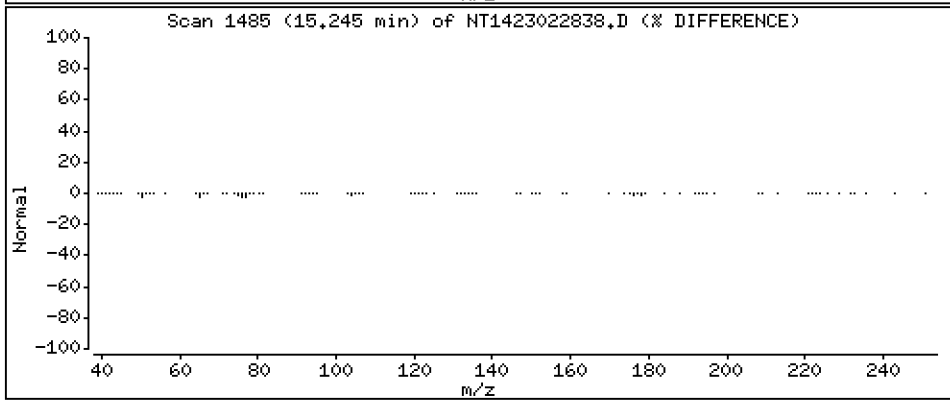
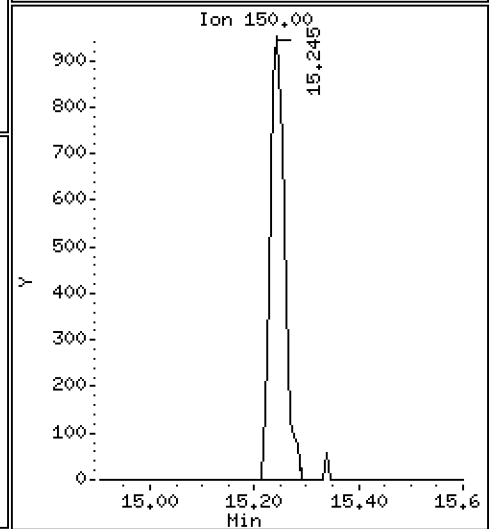
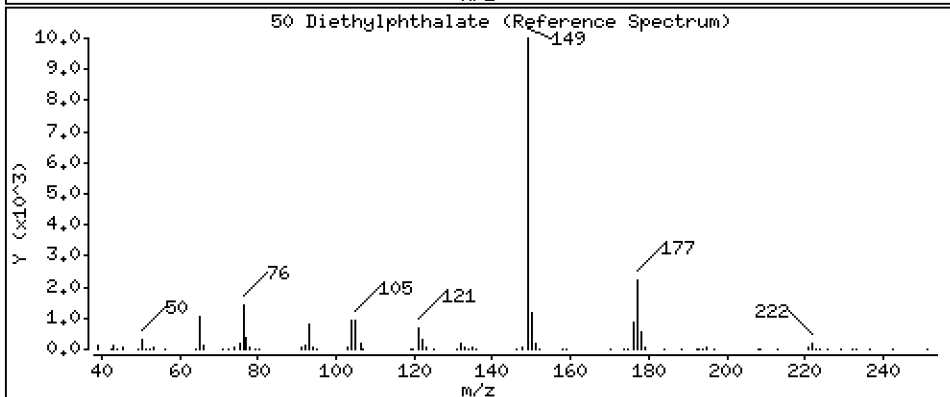
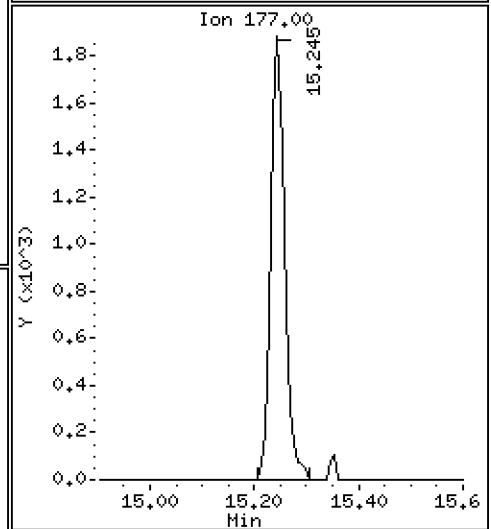
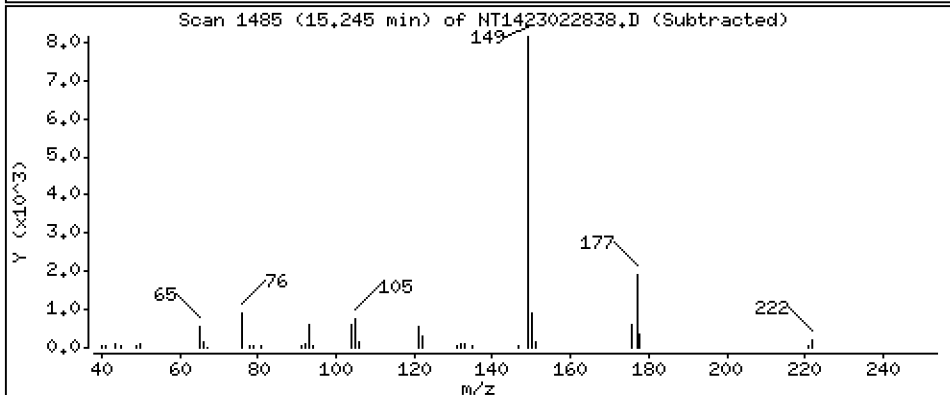
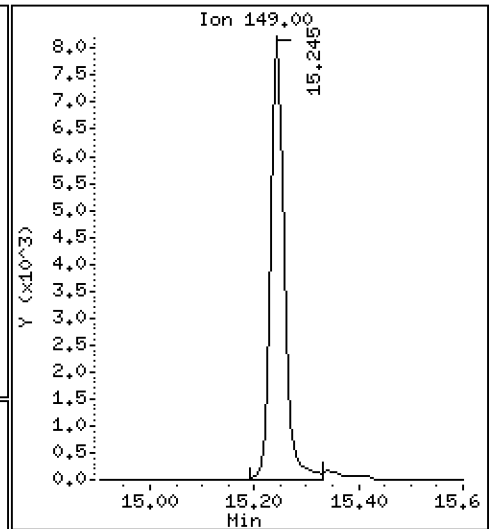
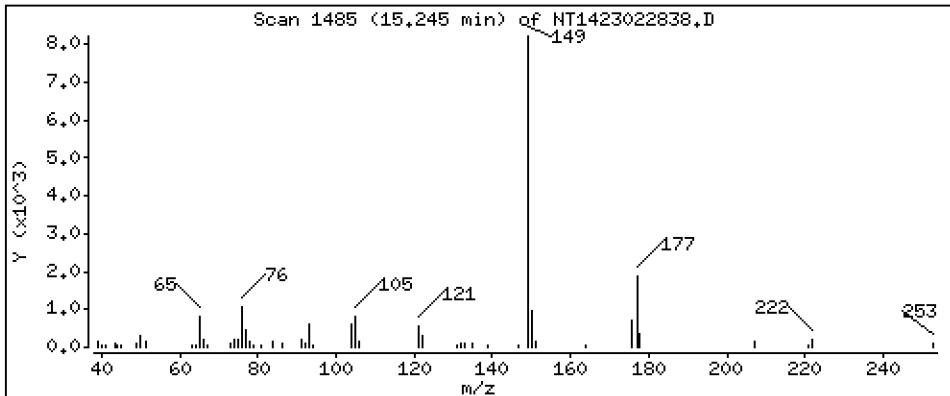
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2122 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

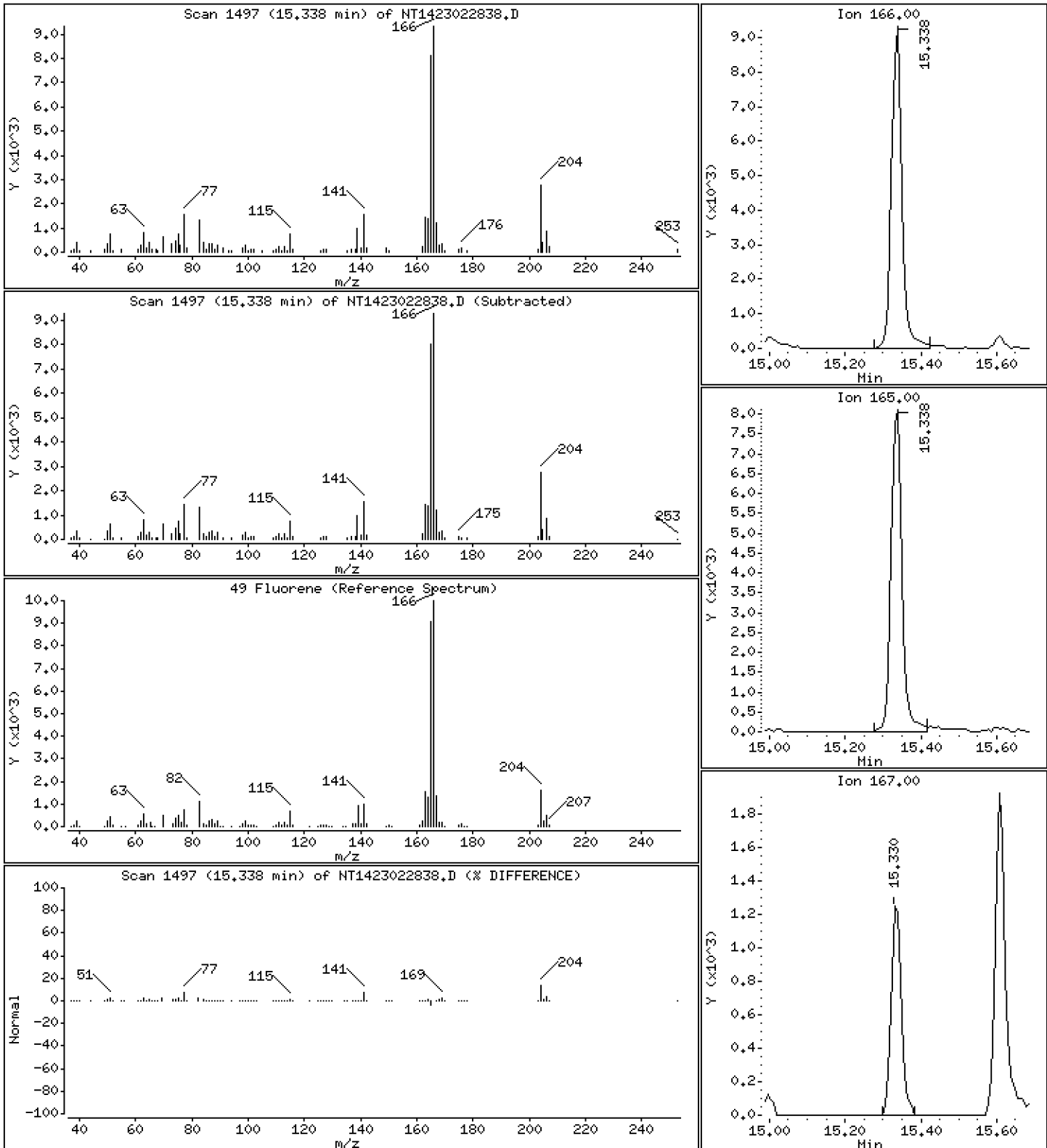
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,2128 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

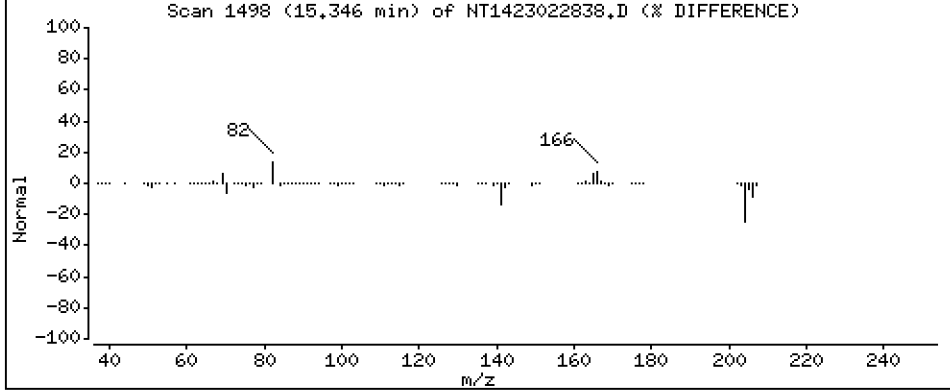
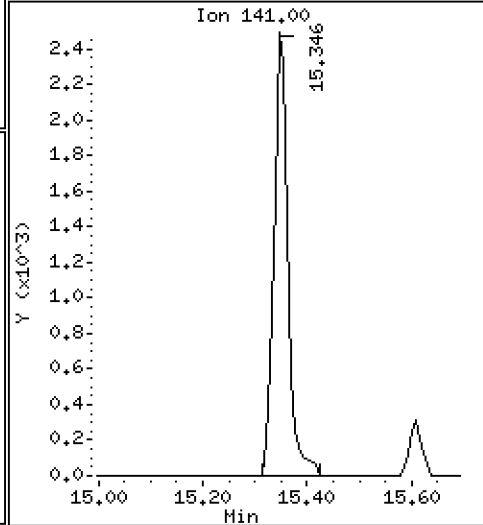
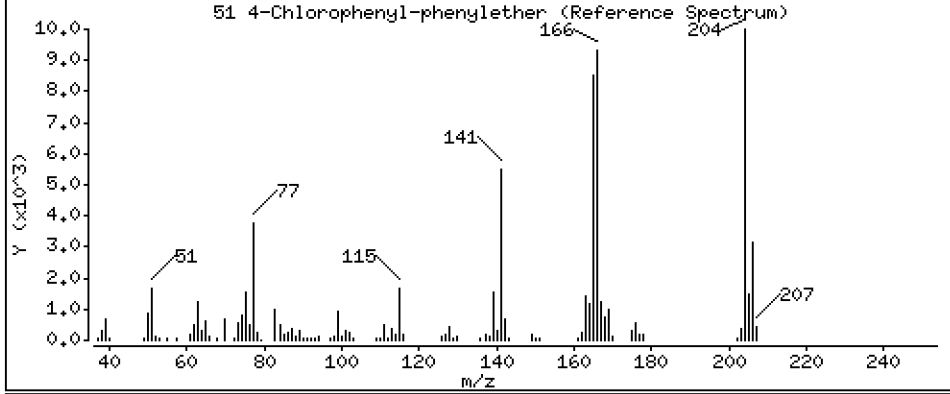
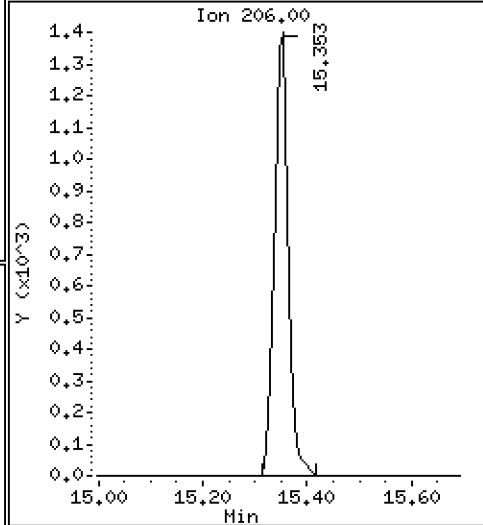
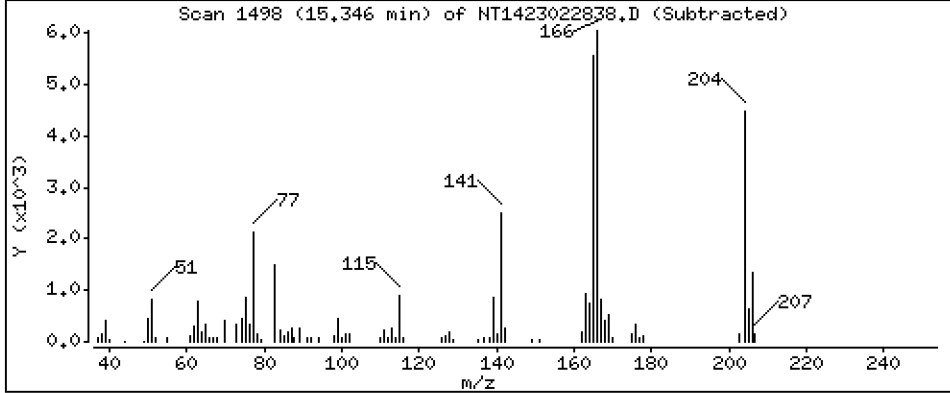
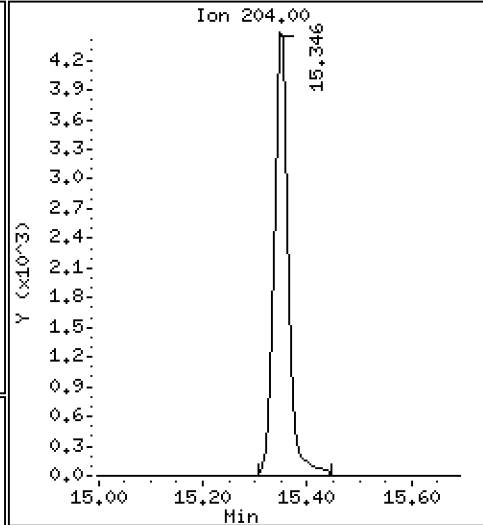
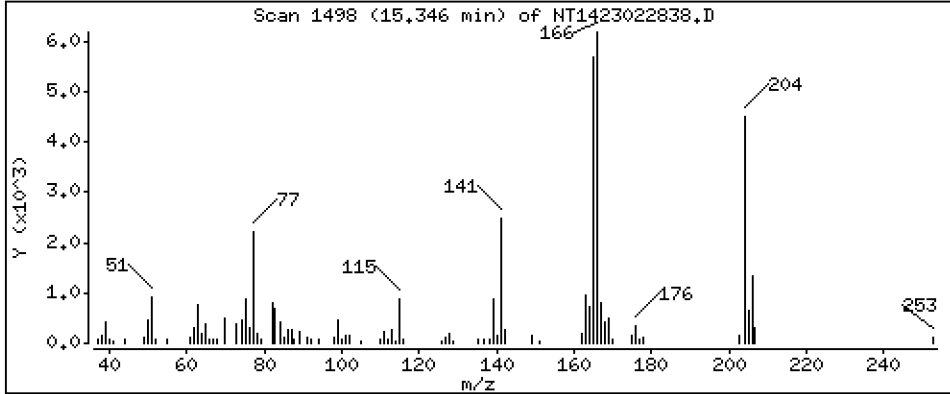
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,1967 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

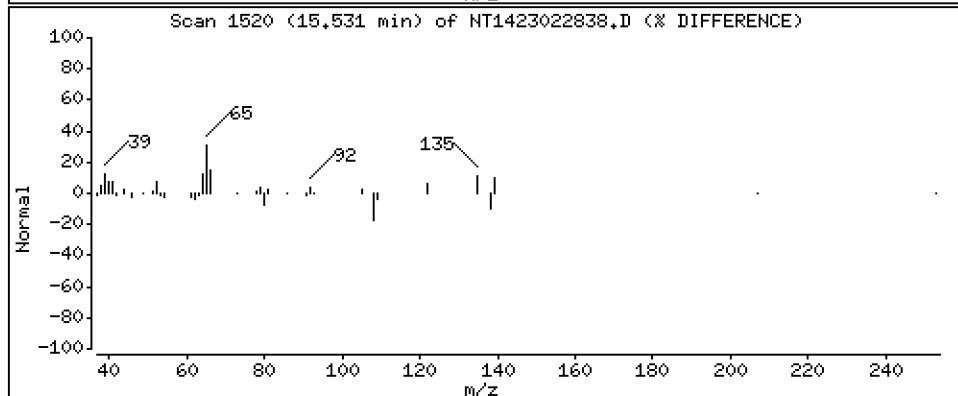
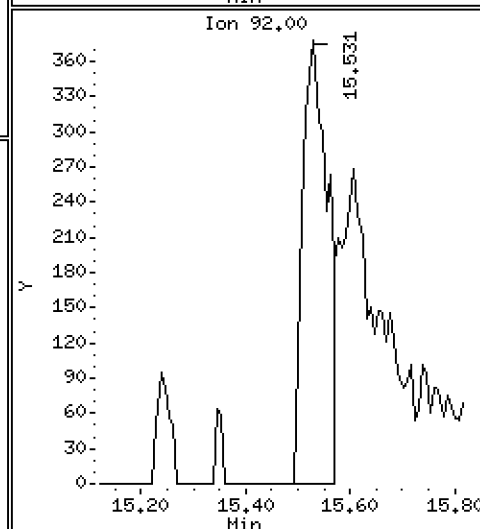
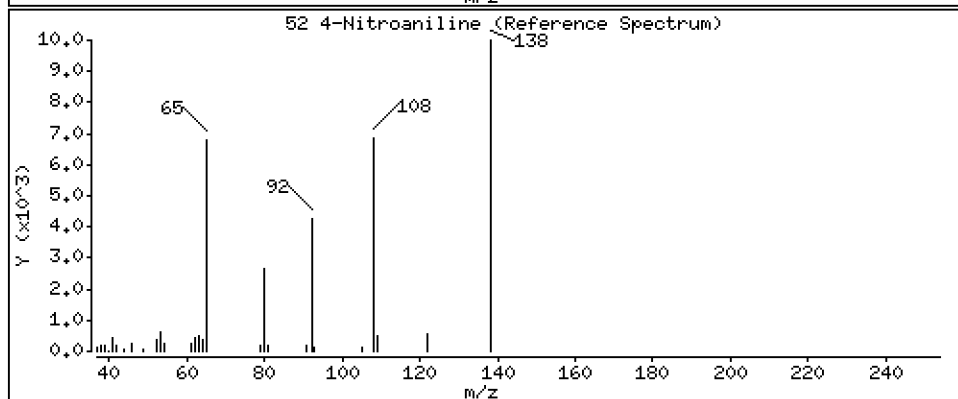
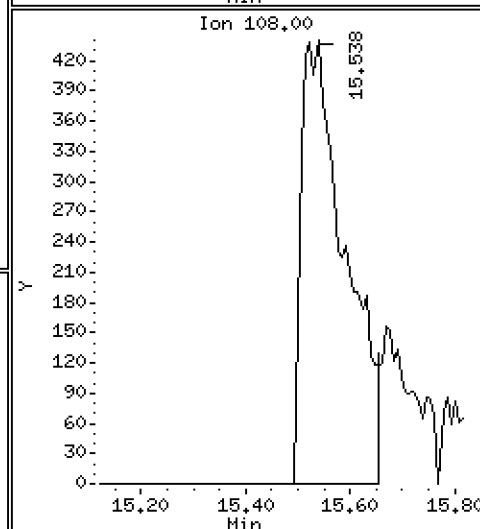
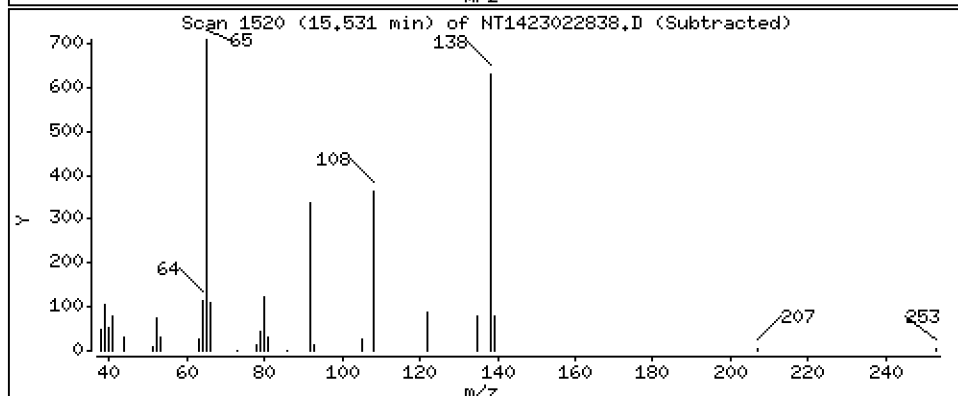
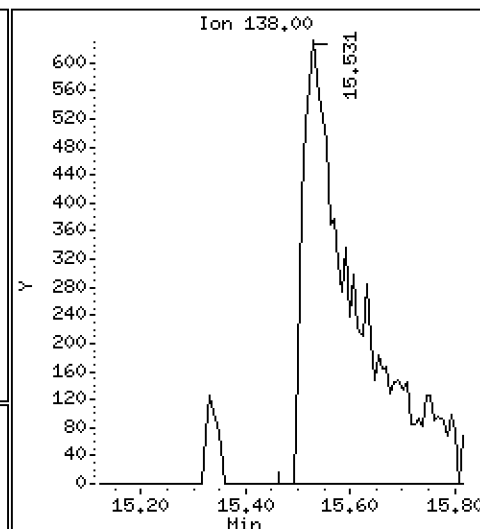
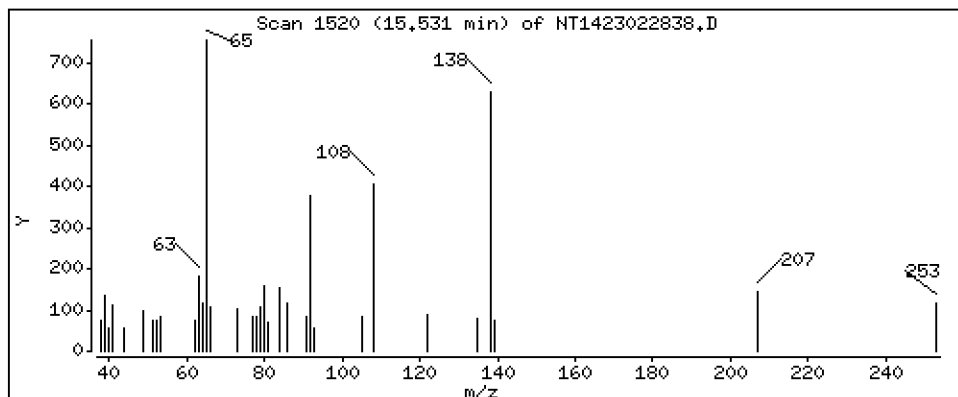
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,2698 ug/mL





Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

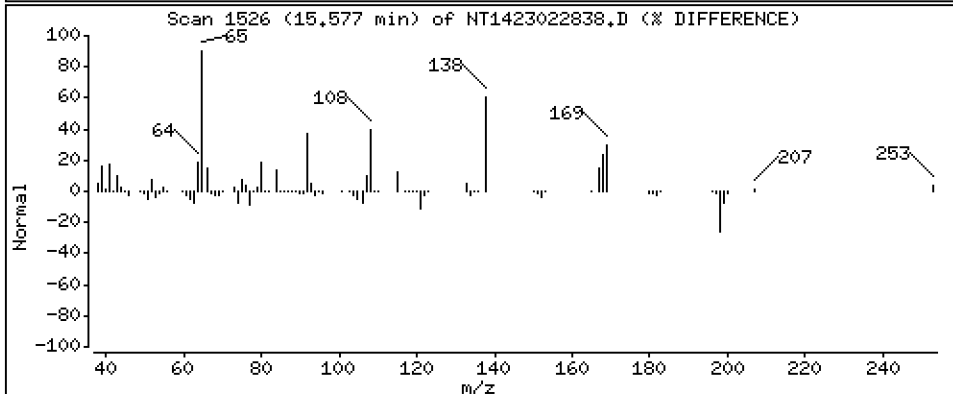
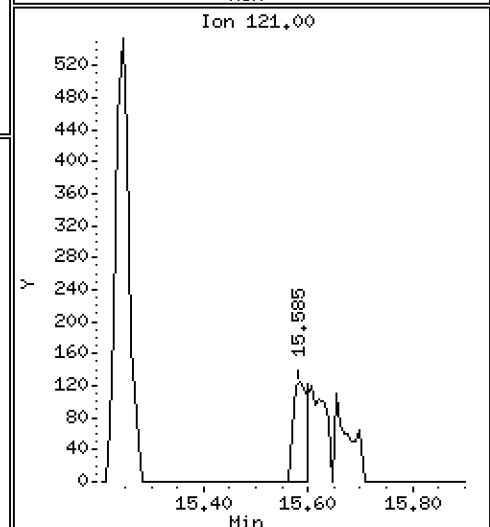
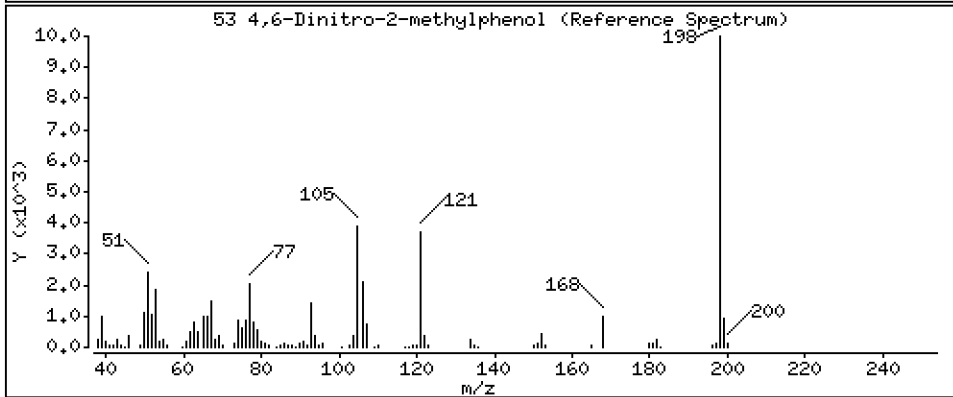
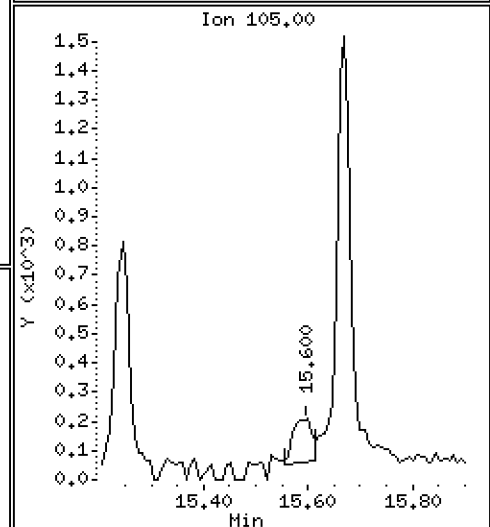
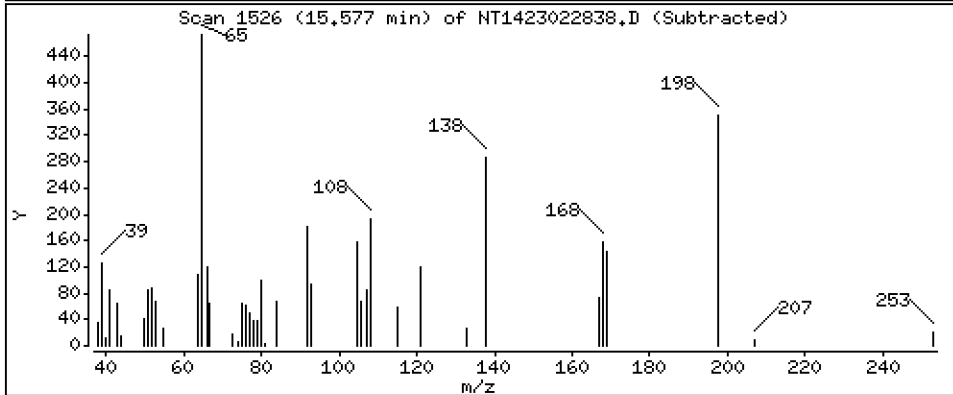
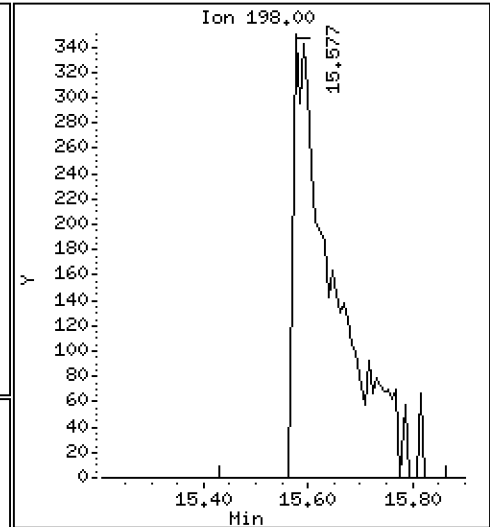
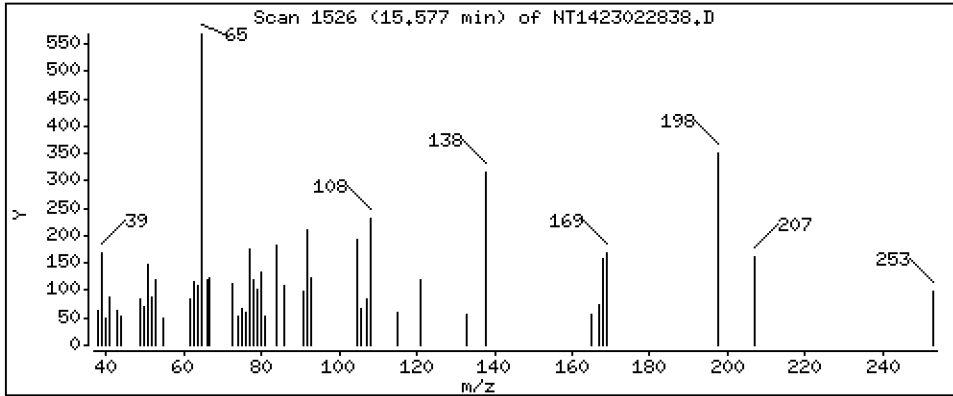
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,1394 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

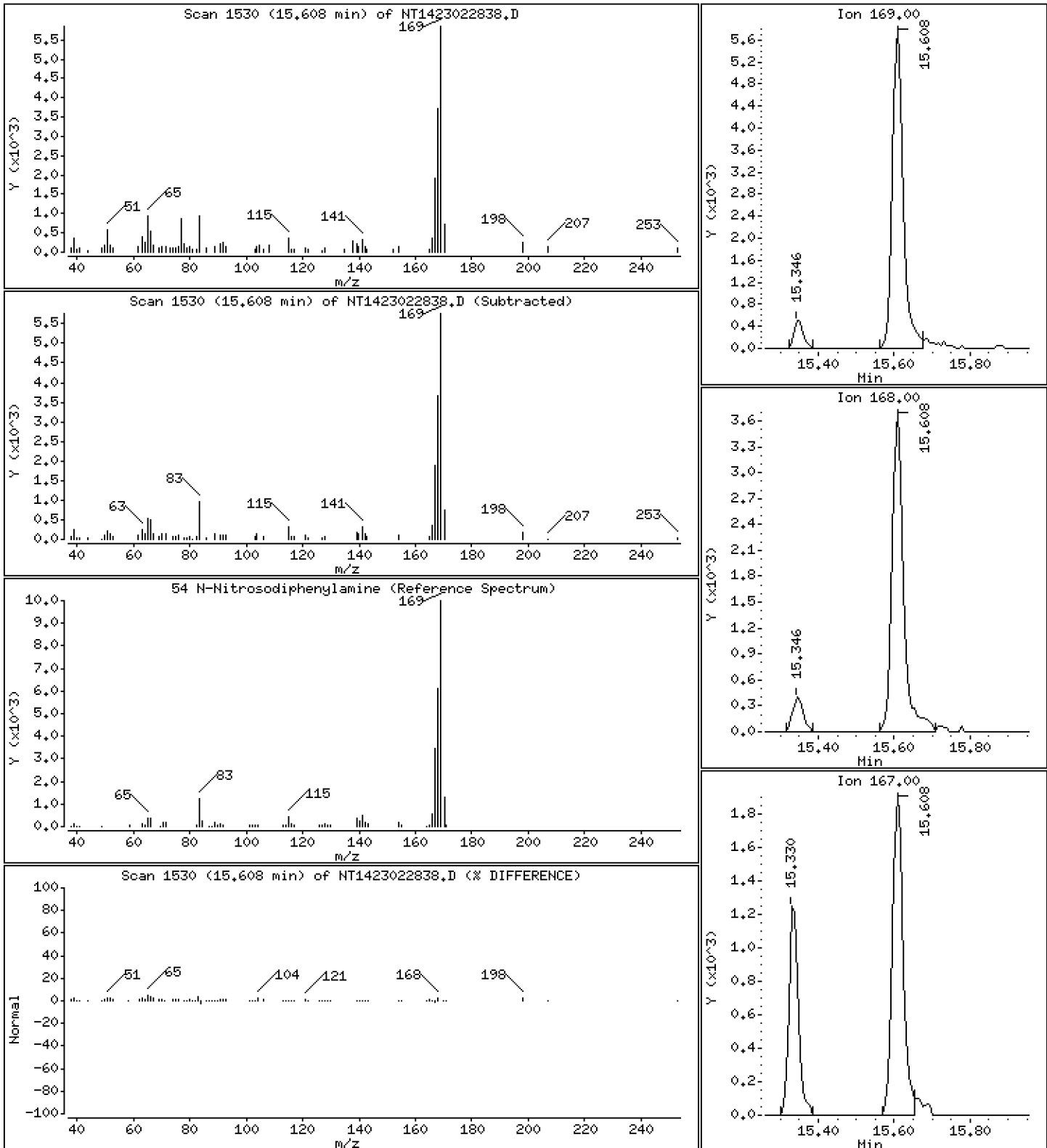
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,2107 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

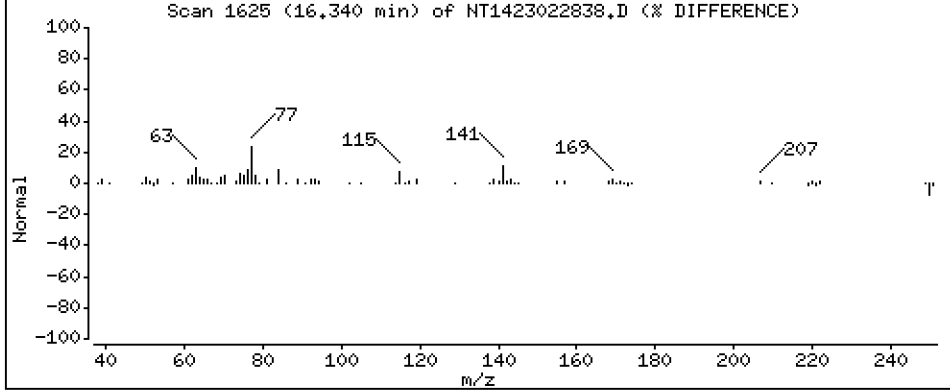
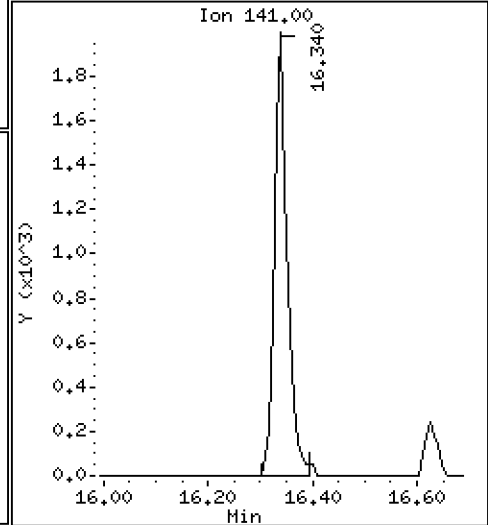
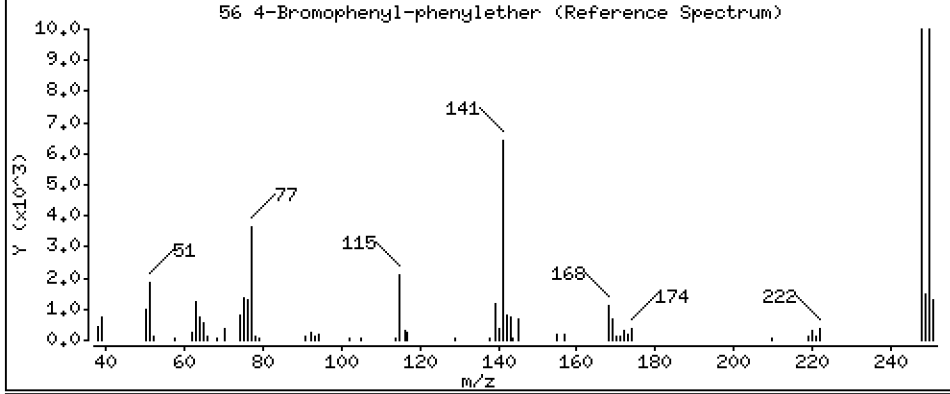
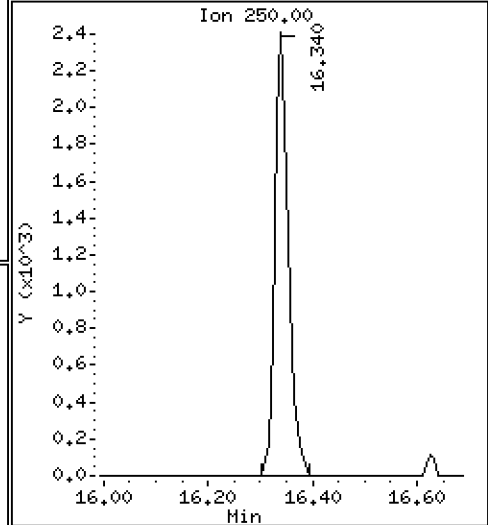
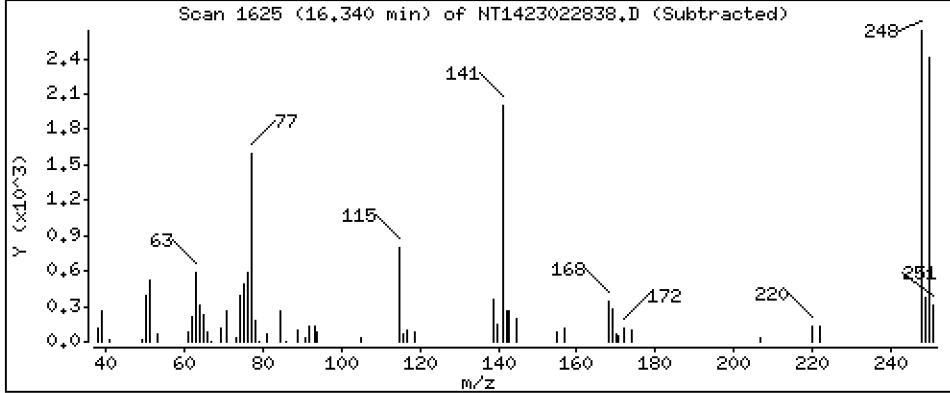
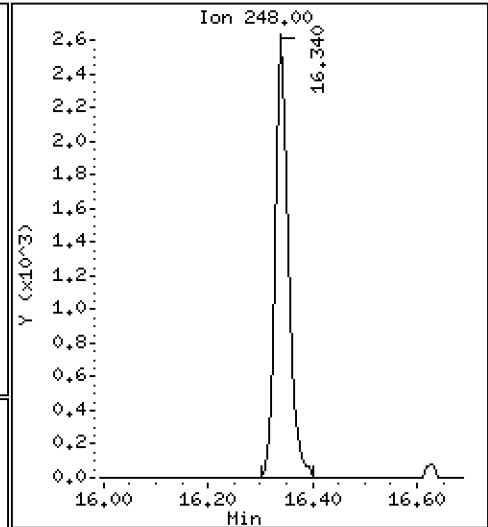
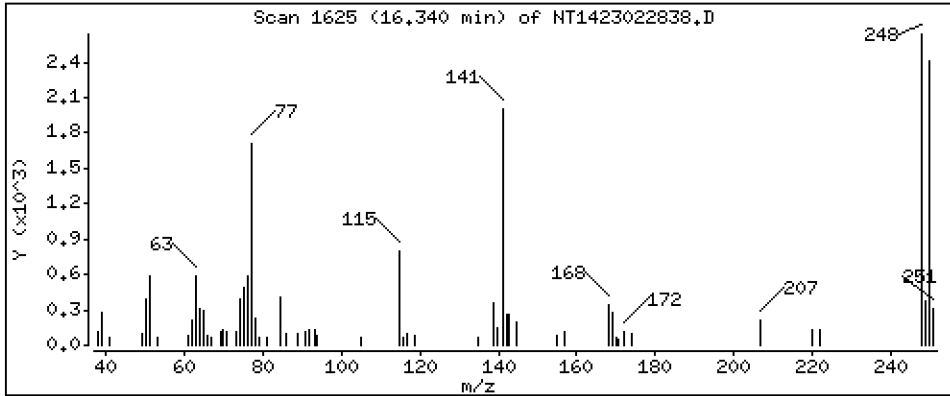
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,1947 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

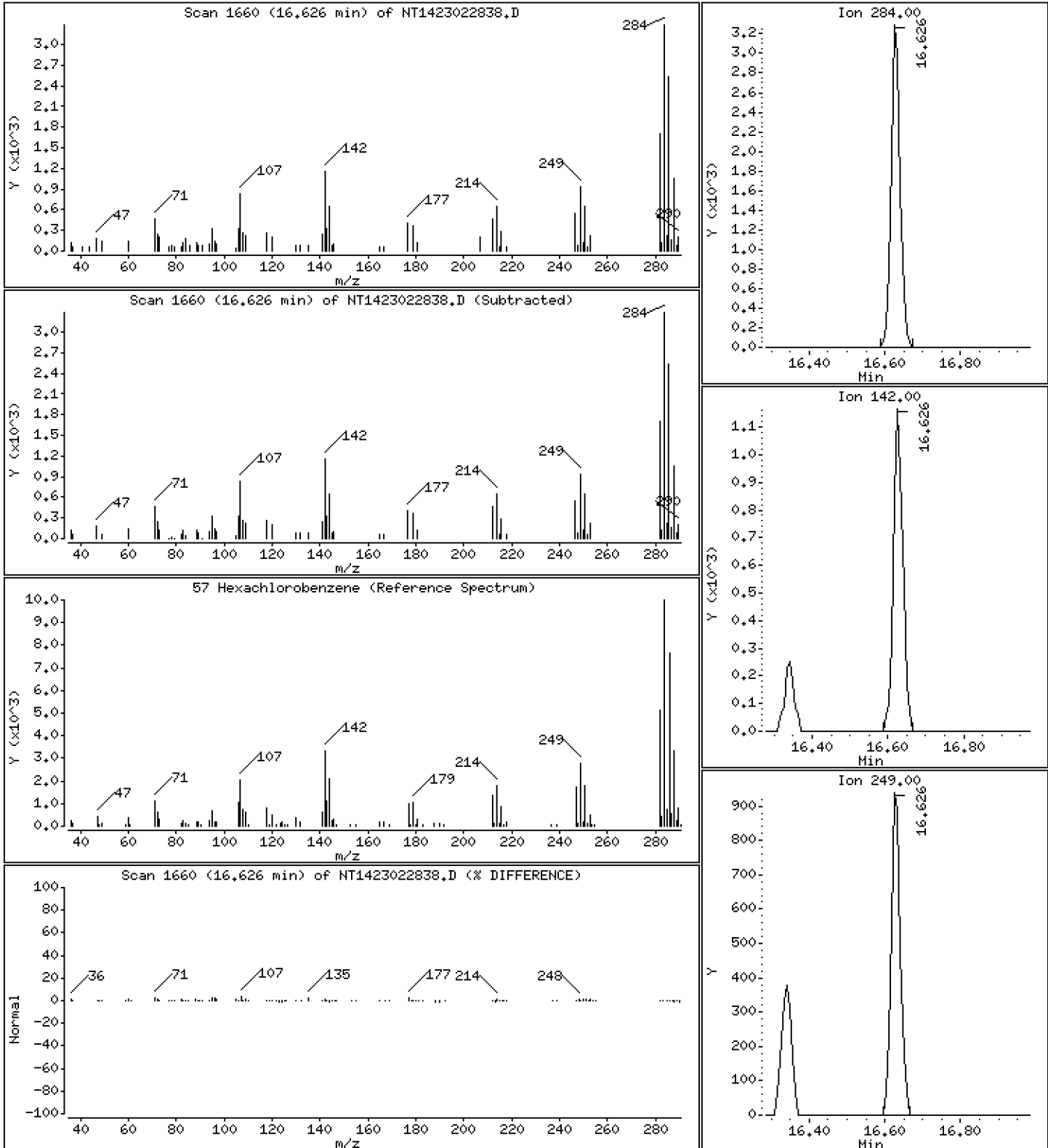
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,2130 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

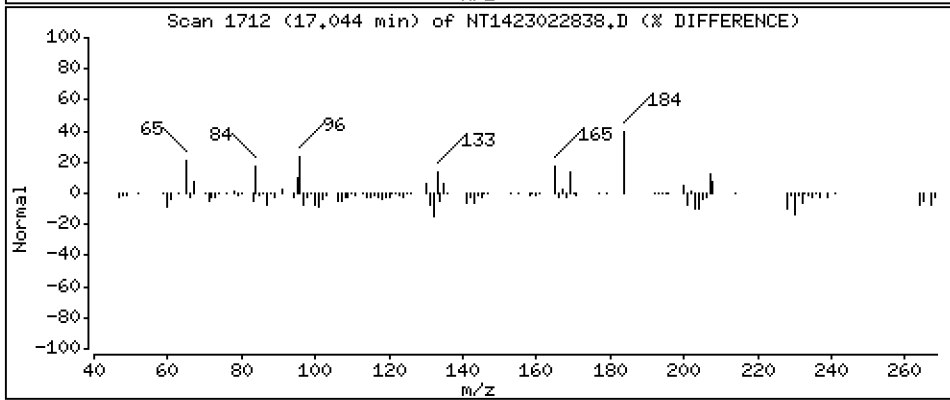
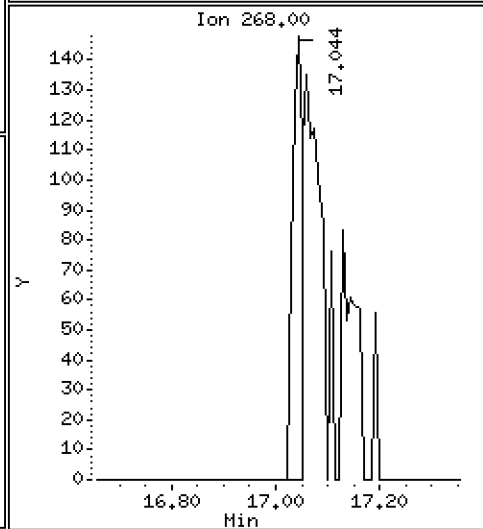
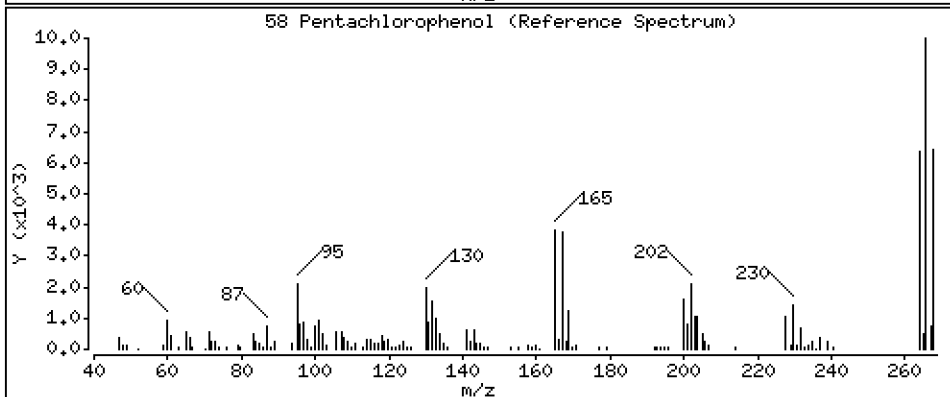
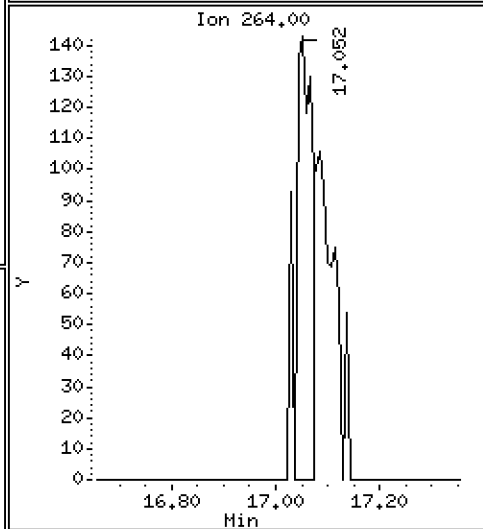
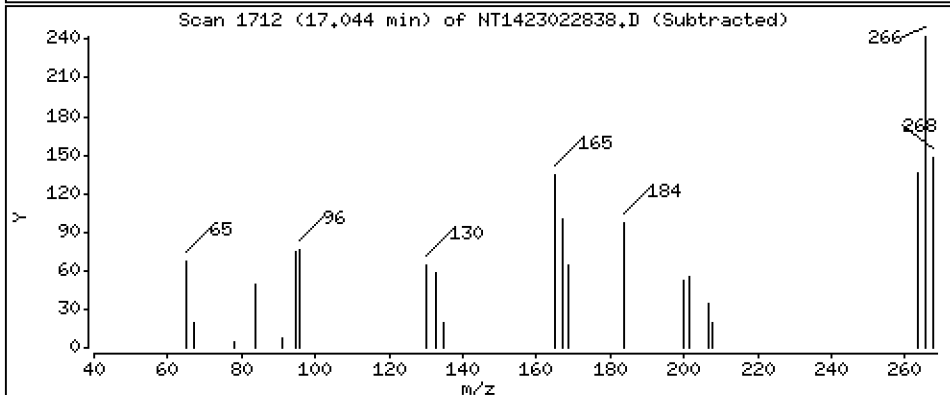
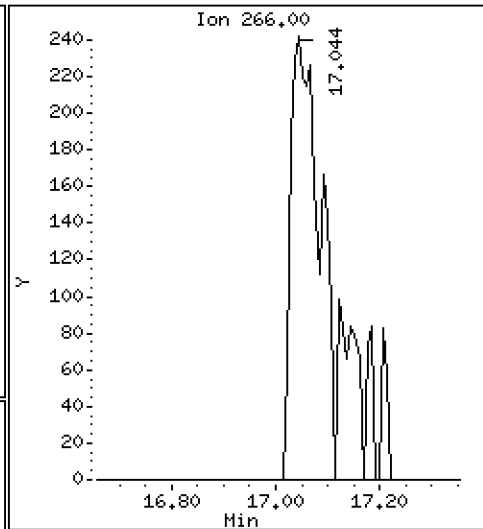
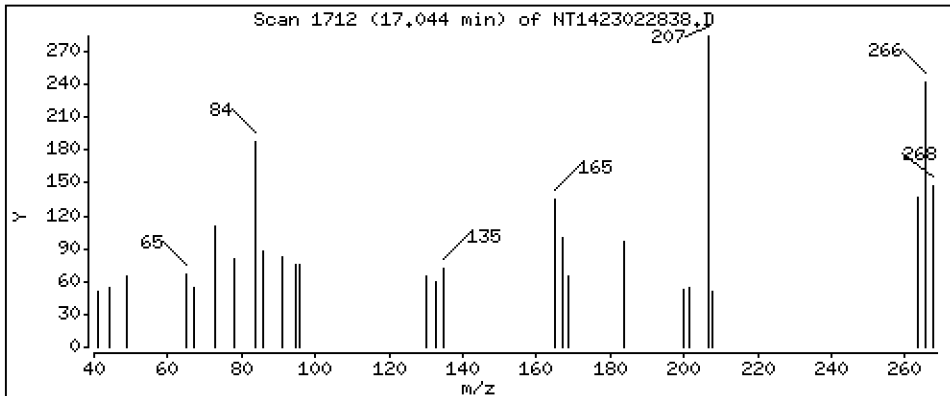
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,1123 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

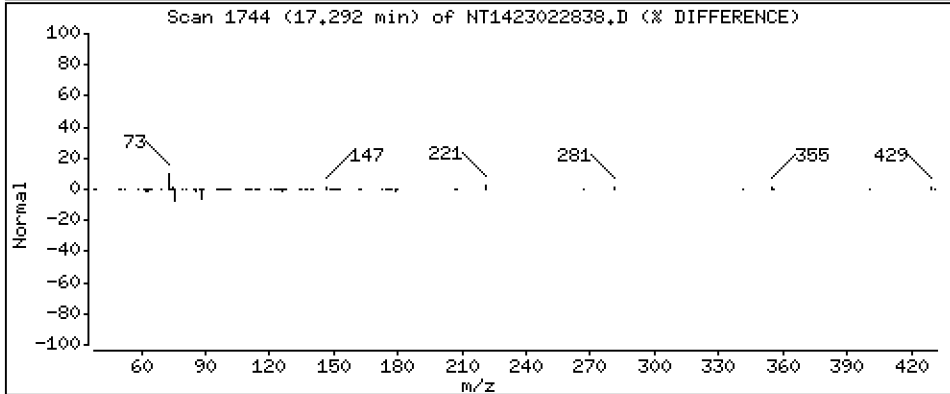
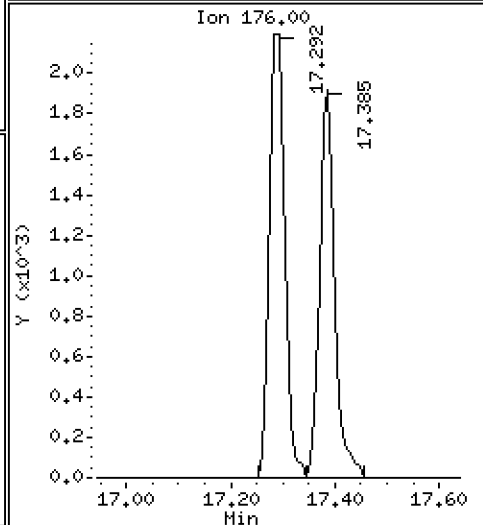
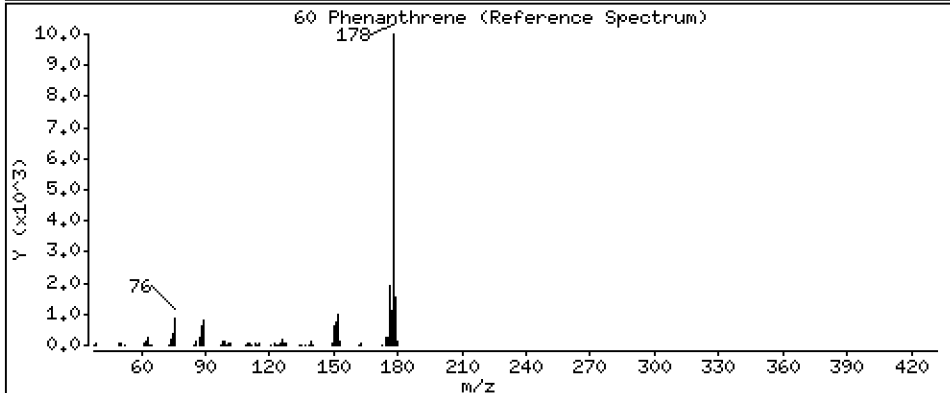
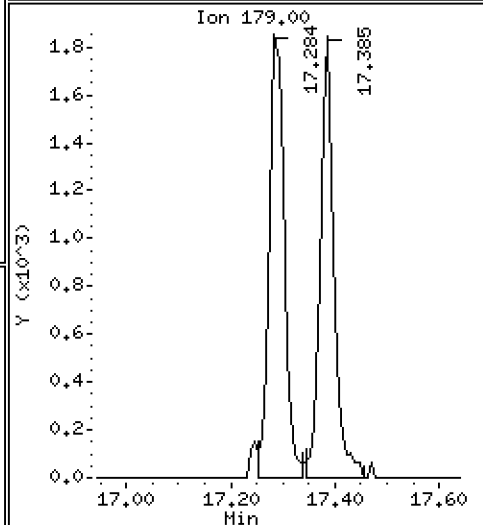
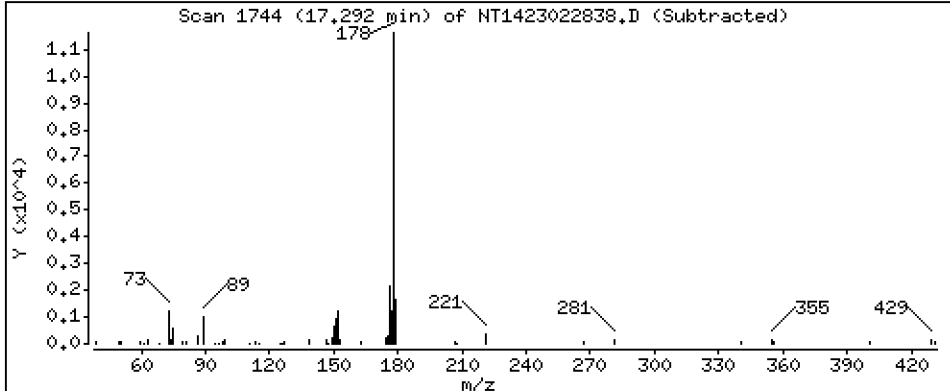
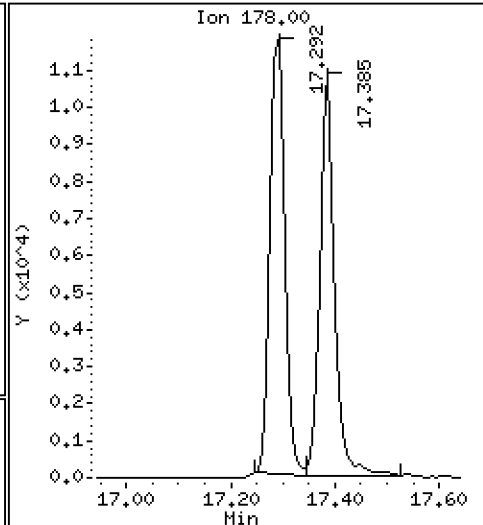
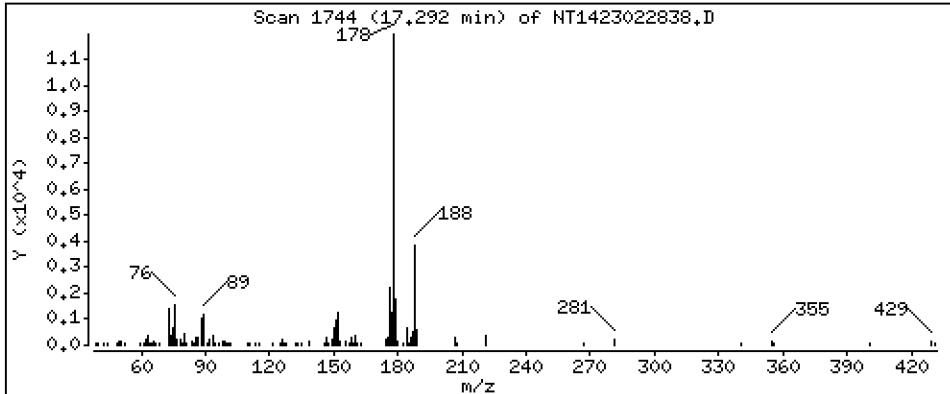
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,2004 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

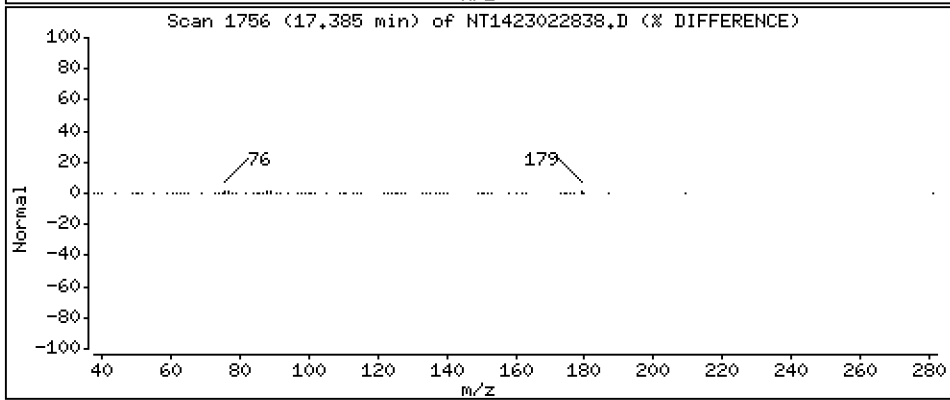
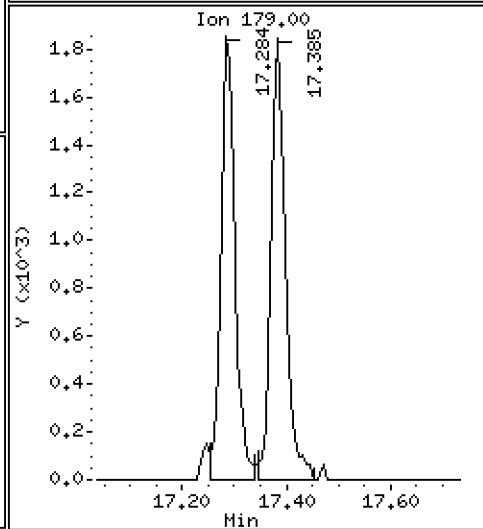
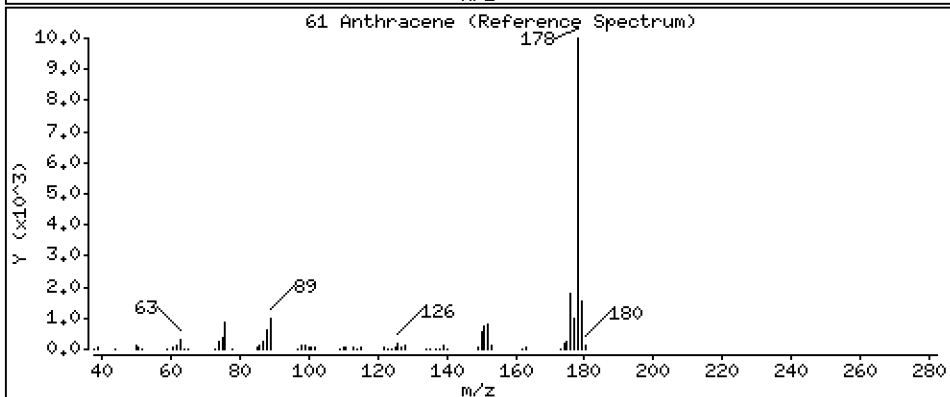
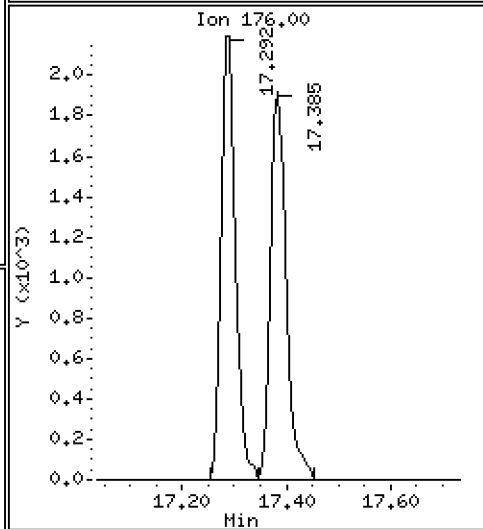
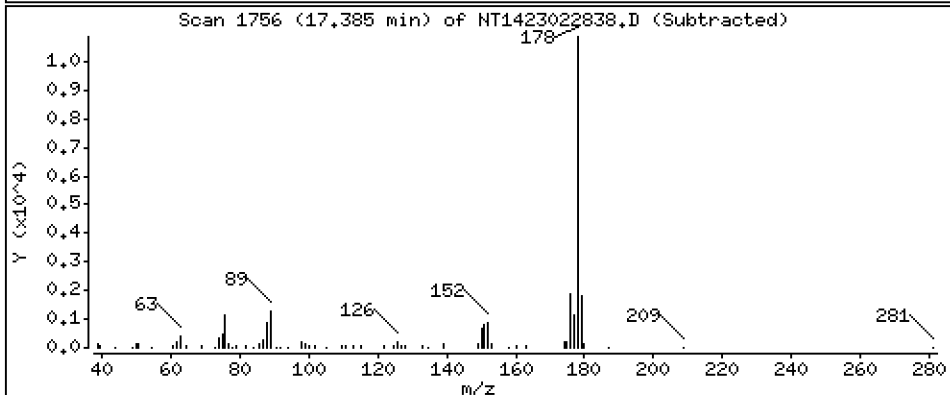
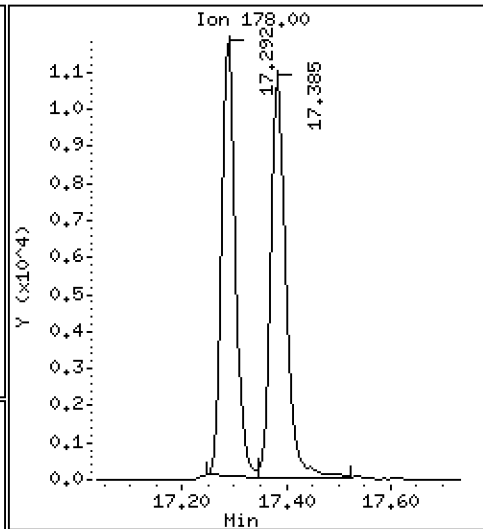
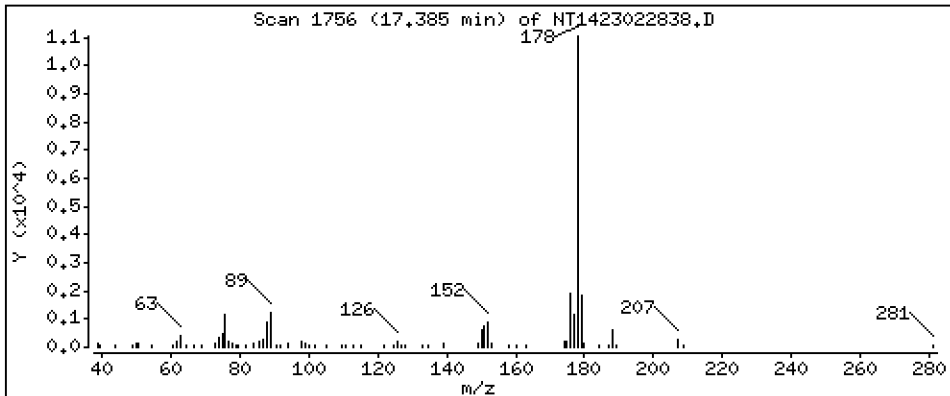
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2011 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

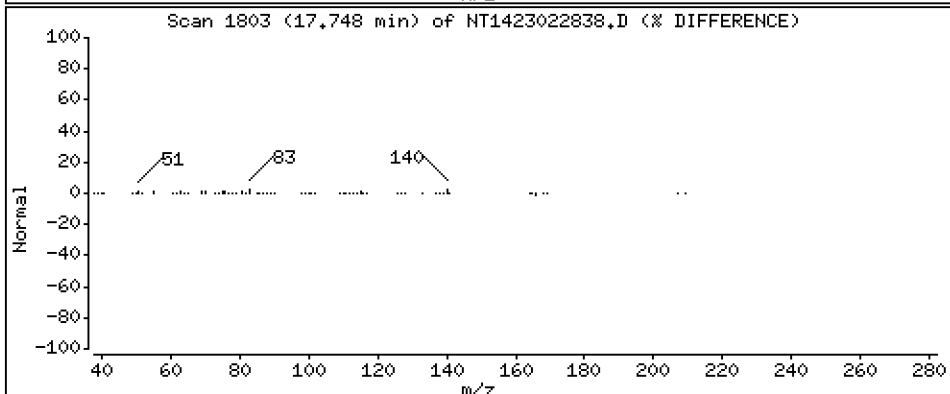
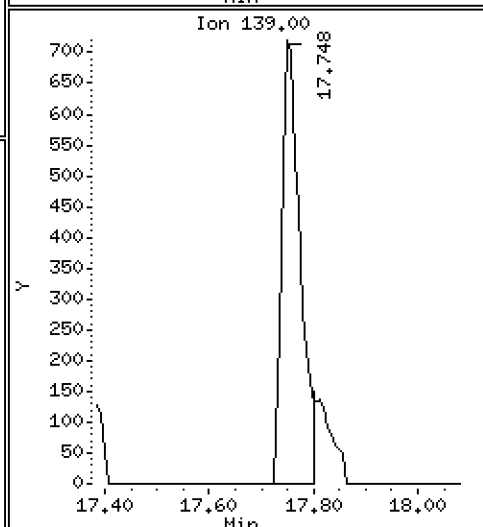
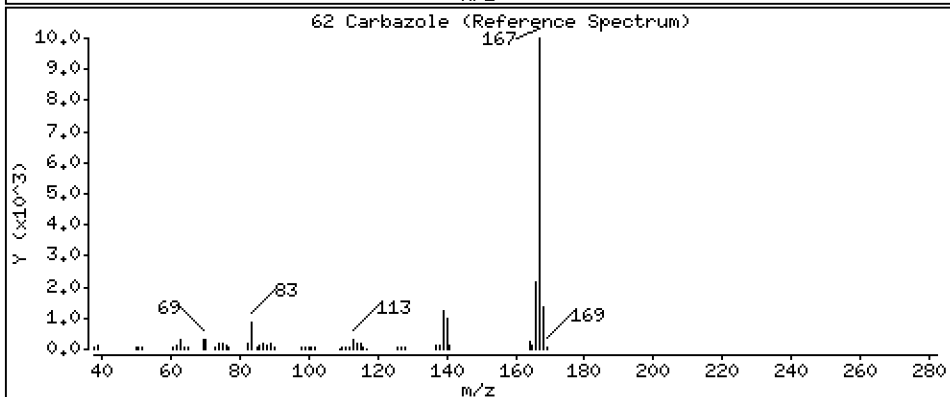
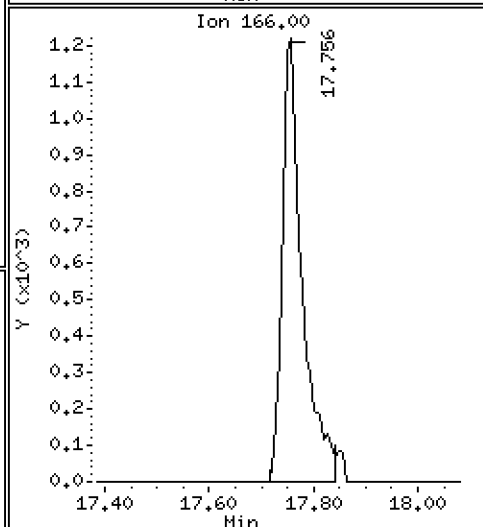
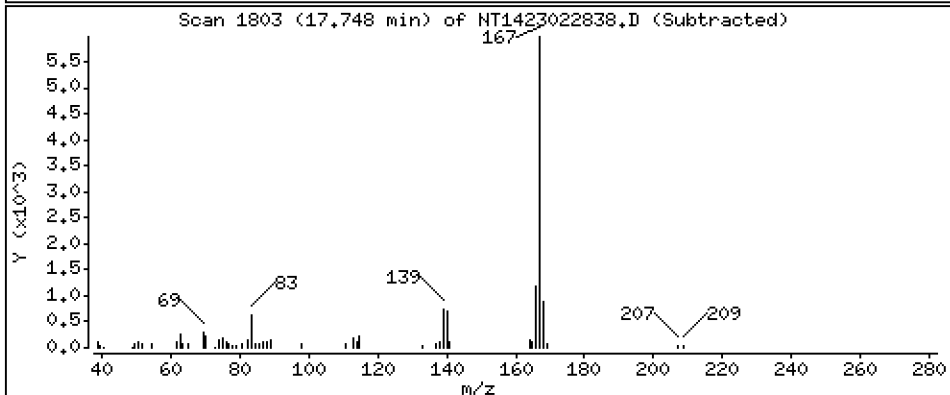
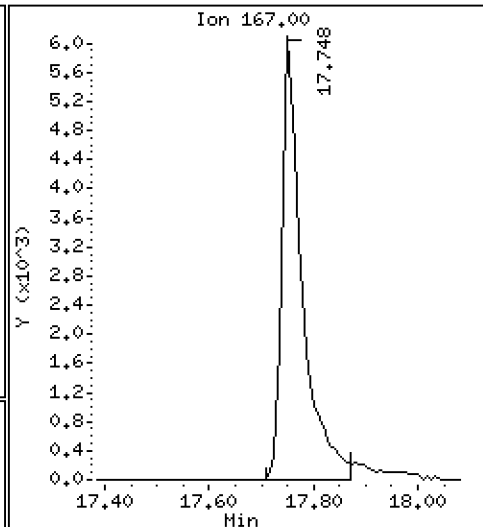
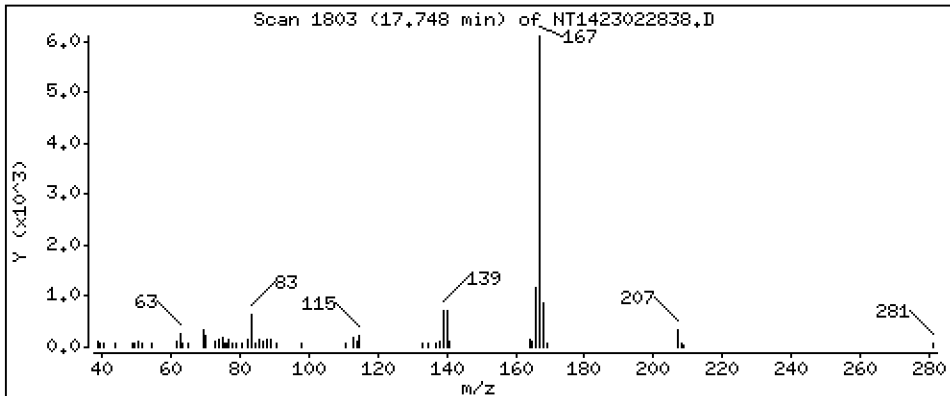
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1835 ug/mL





Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

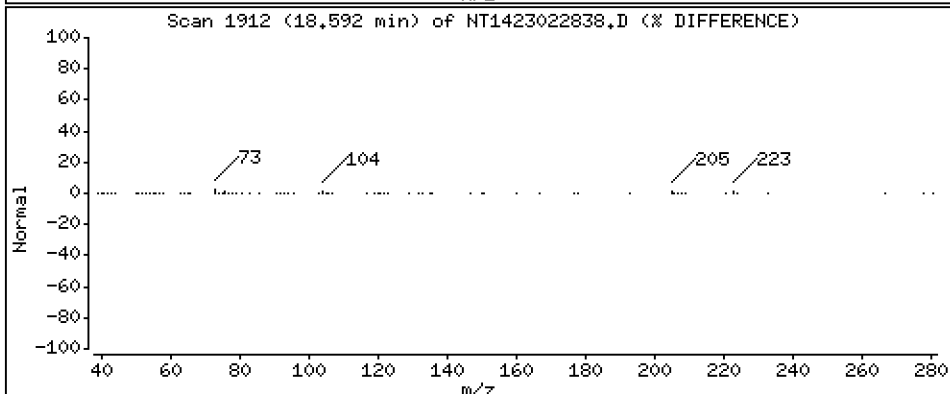
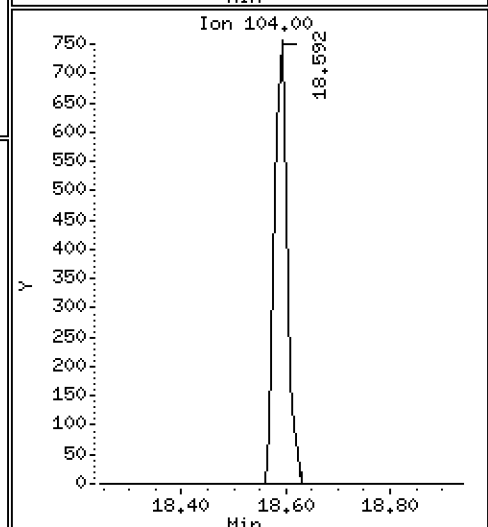
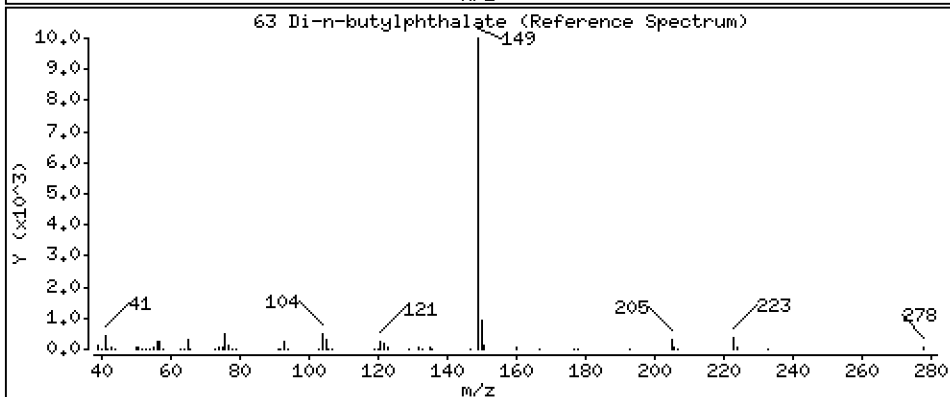
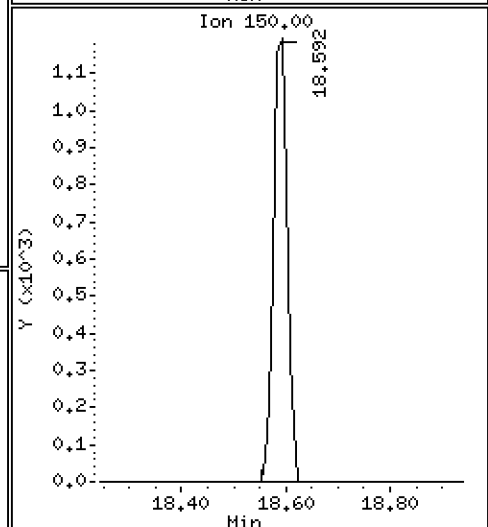
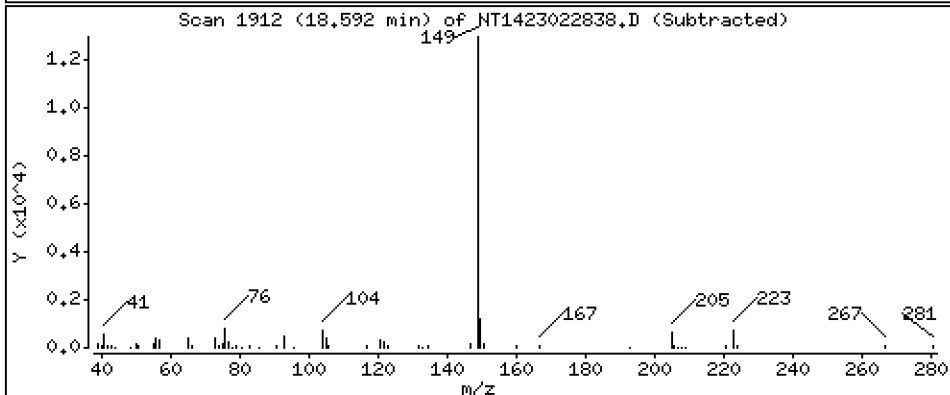
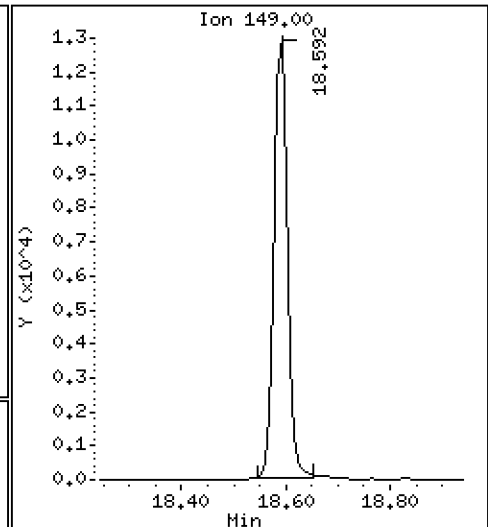
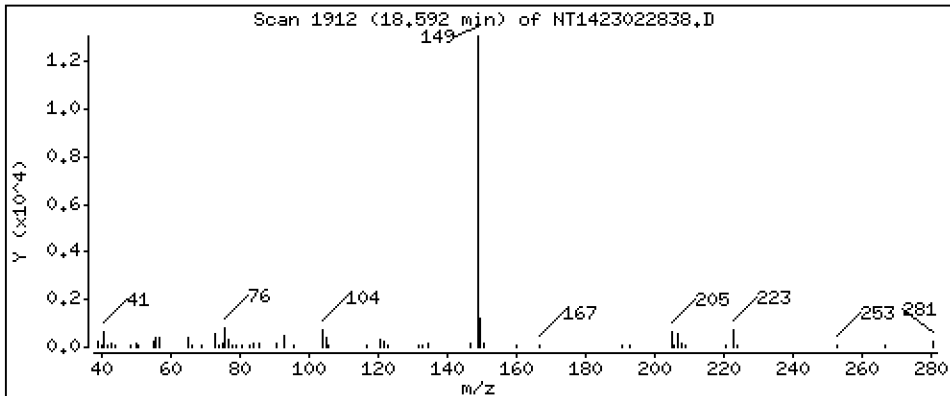
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,1830 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

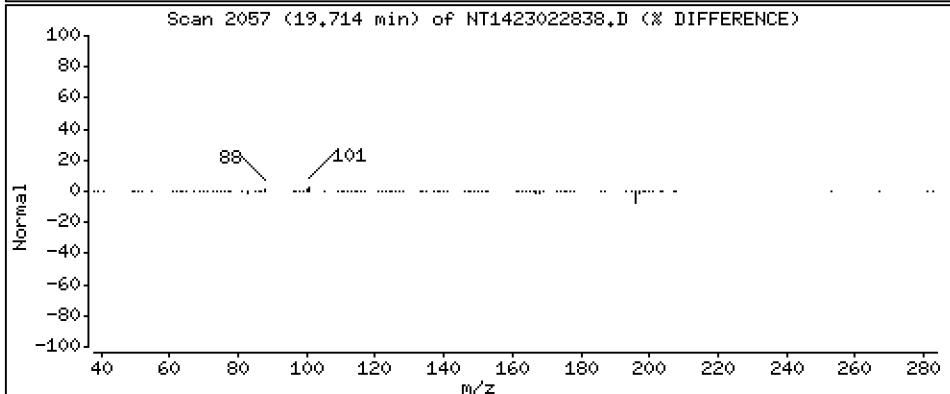
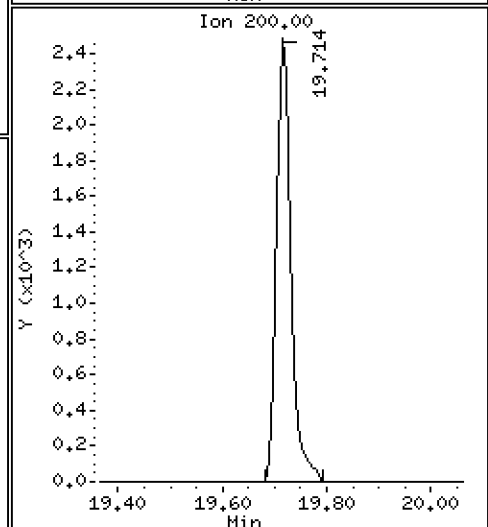
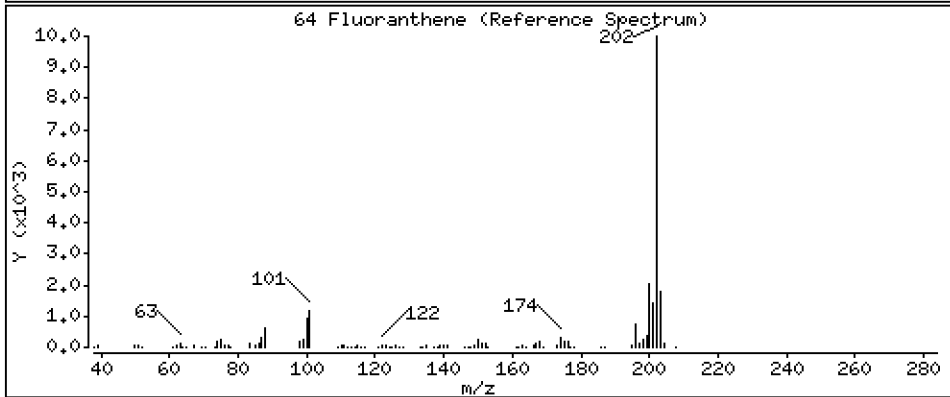
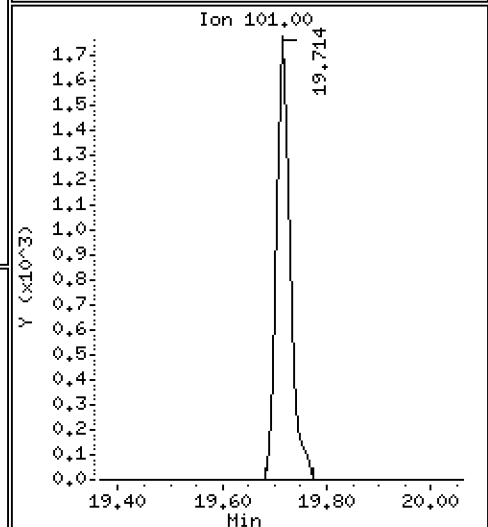
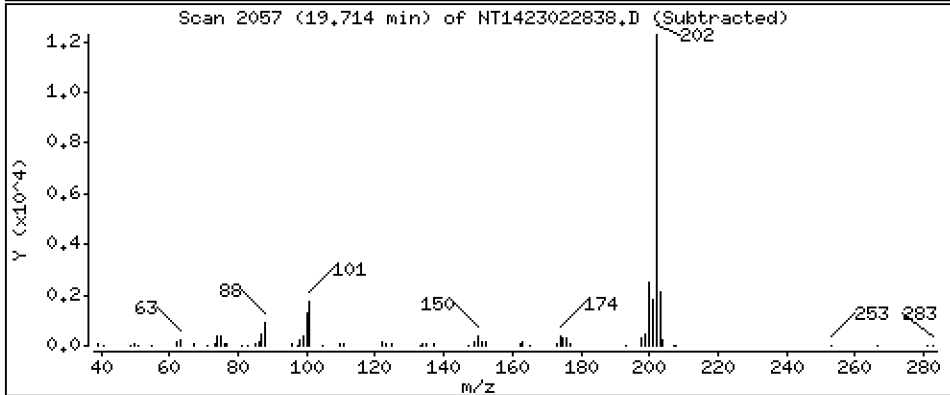
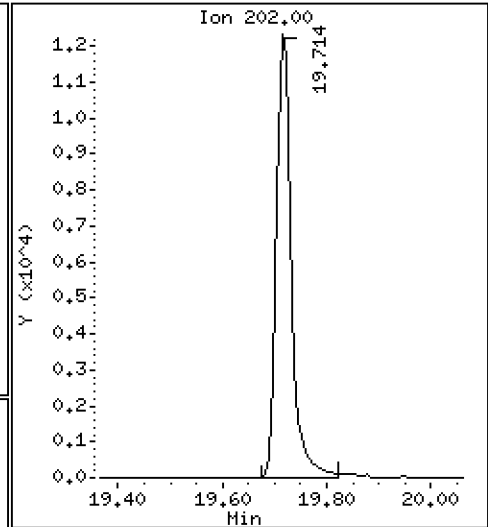
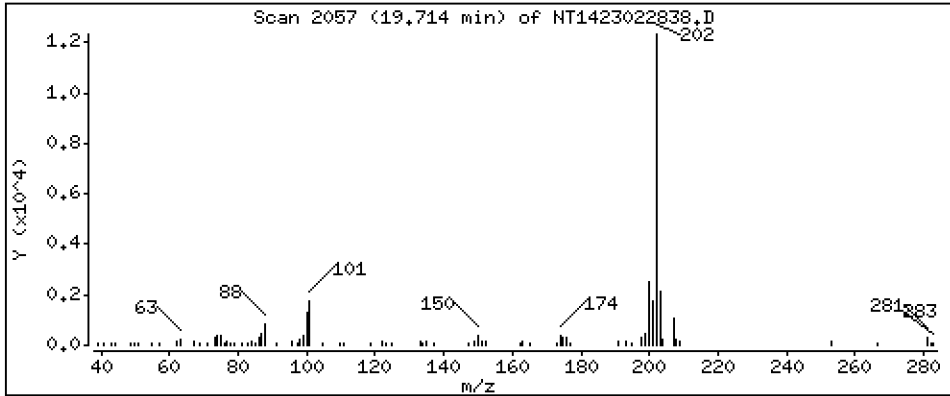
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,1837 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

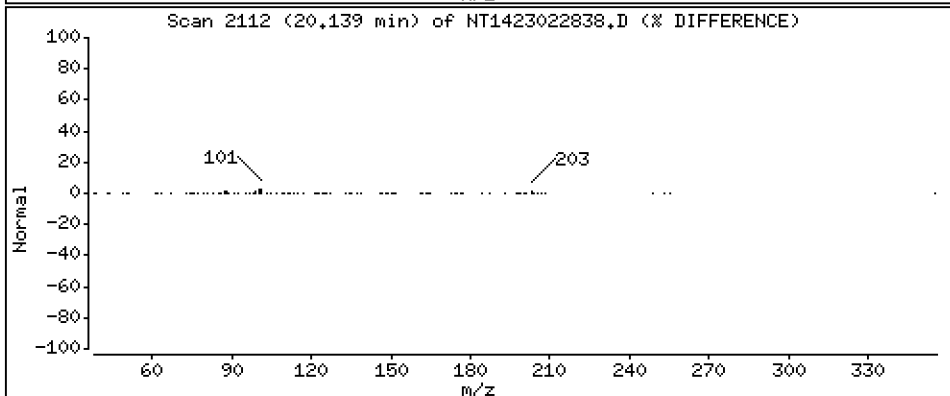
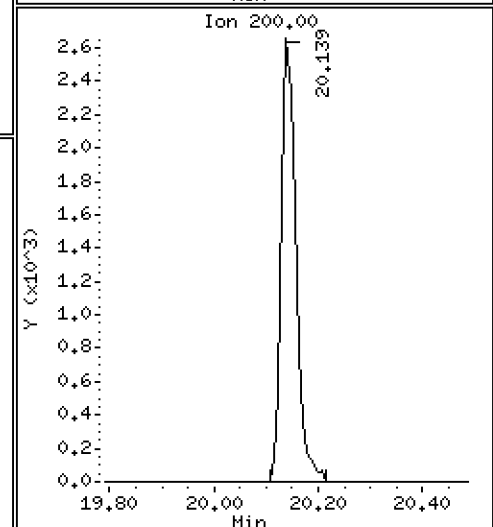
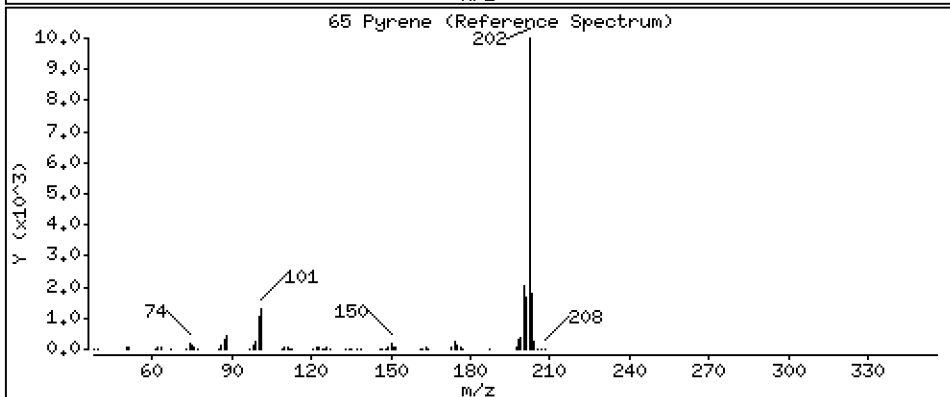
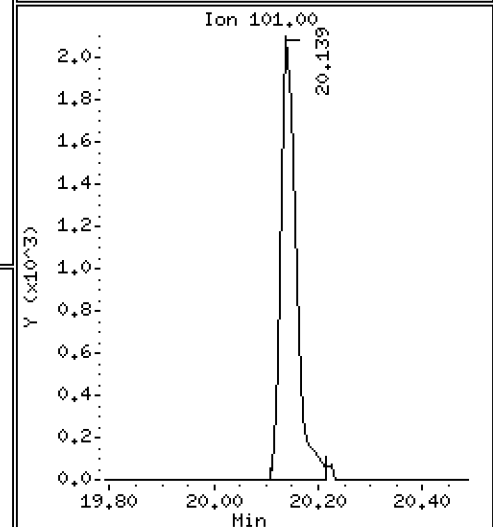
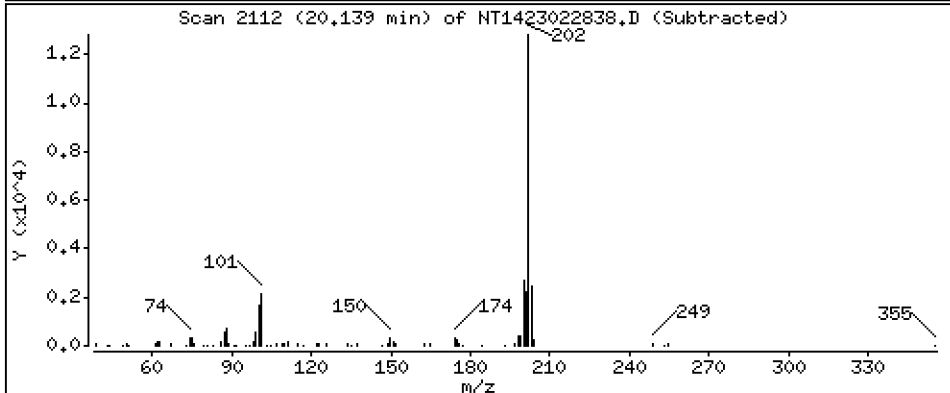
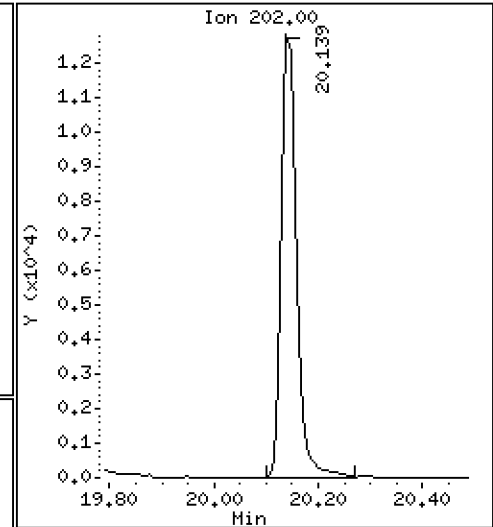
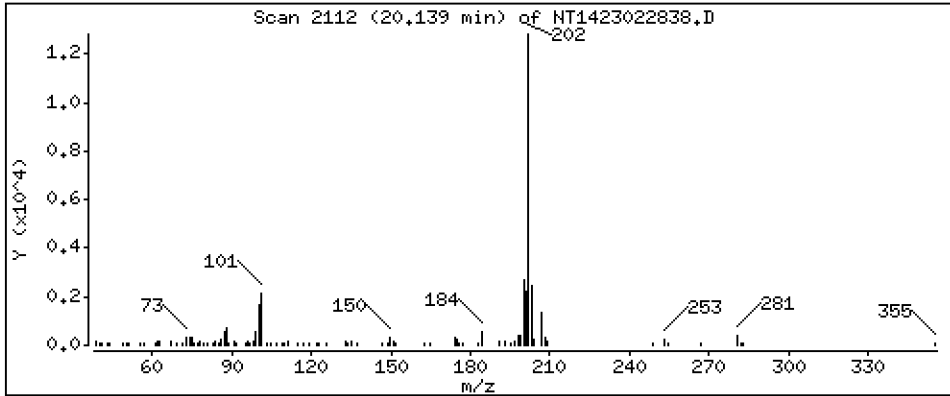
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,1835 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

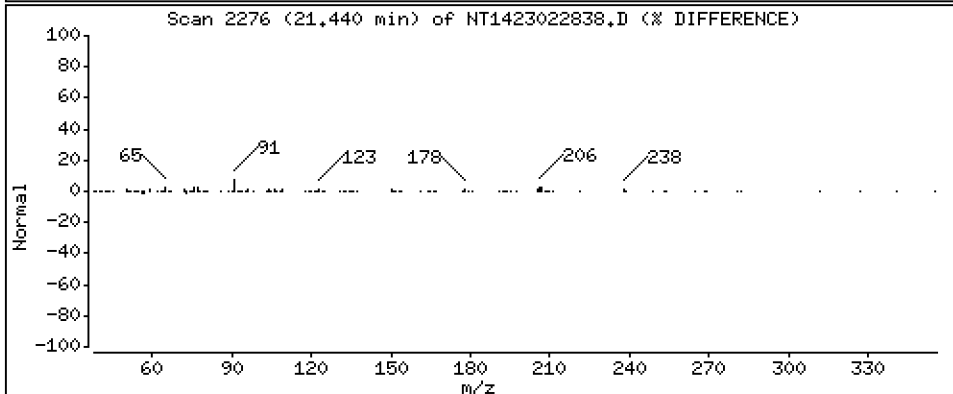
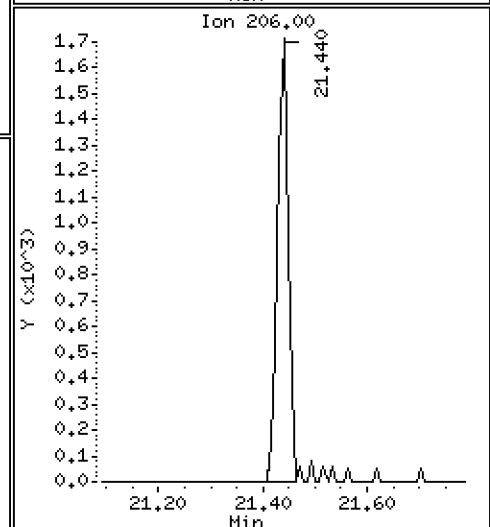
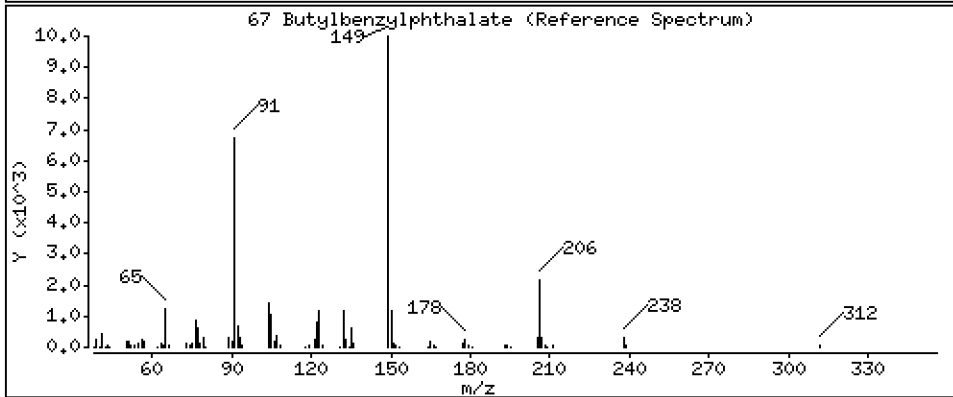
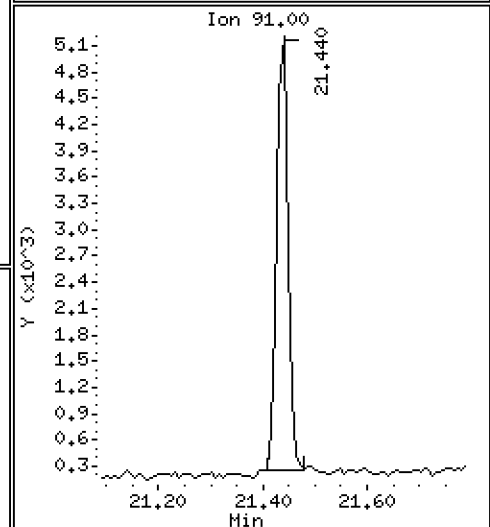
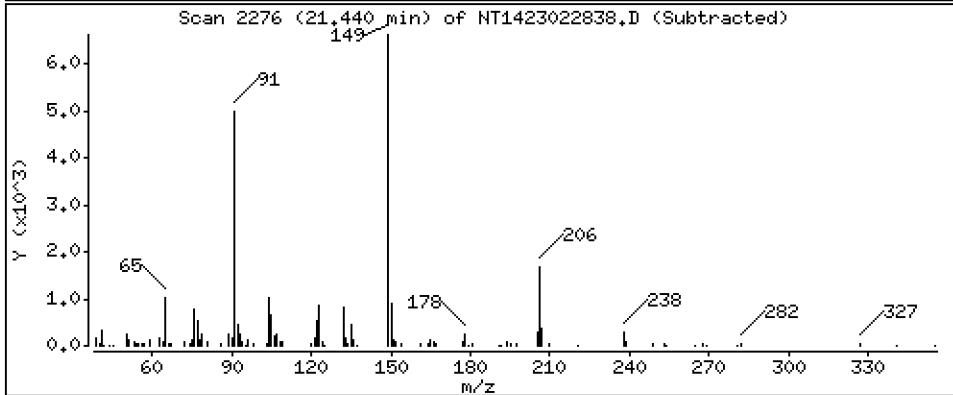
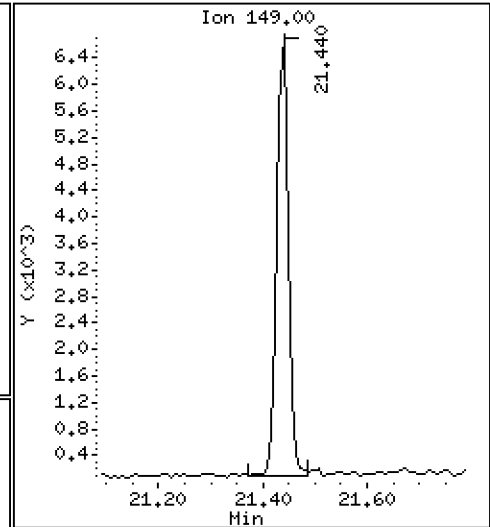
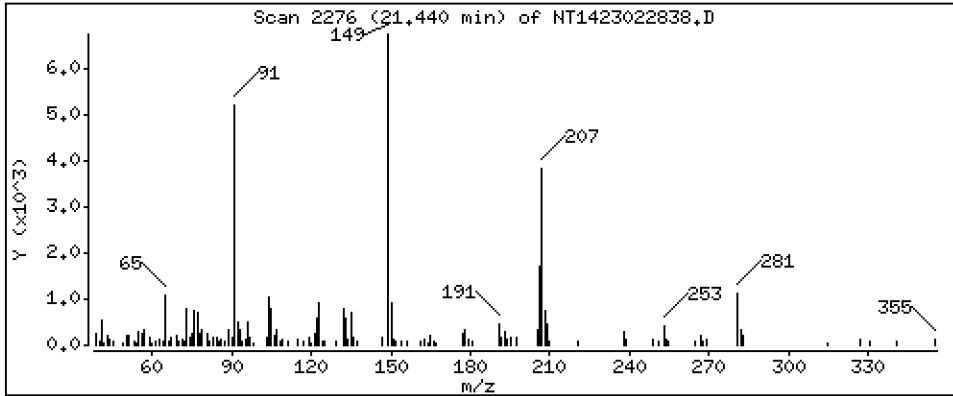
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,1984 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

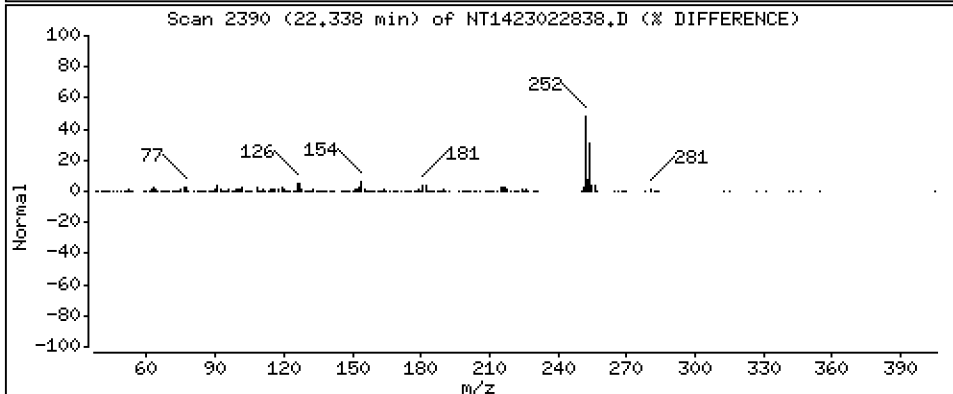
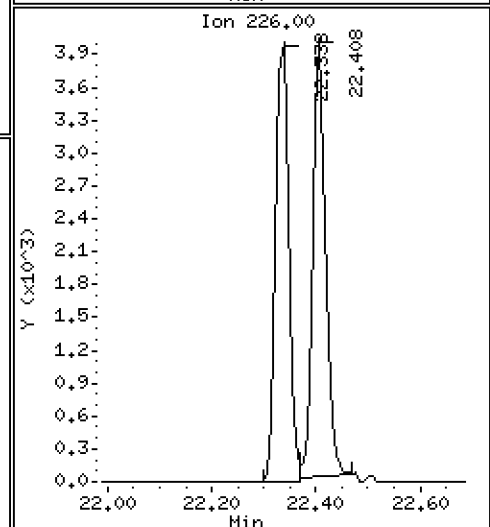
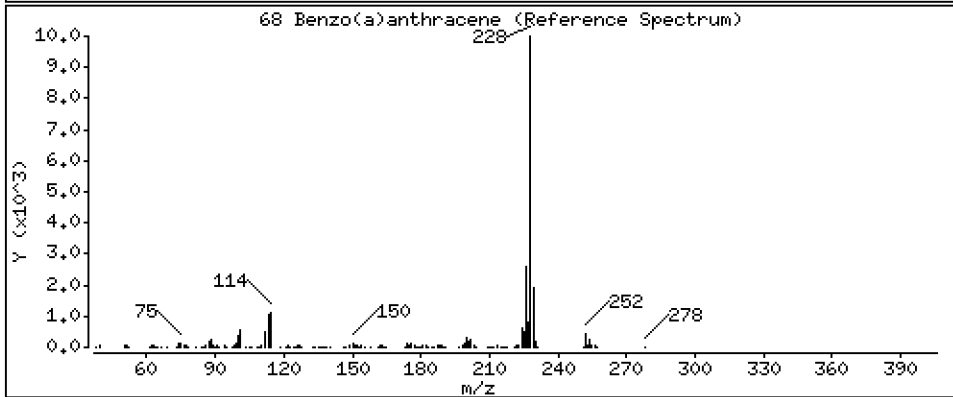
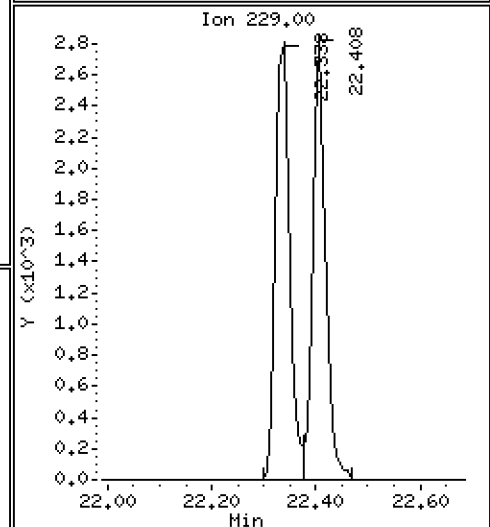
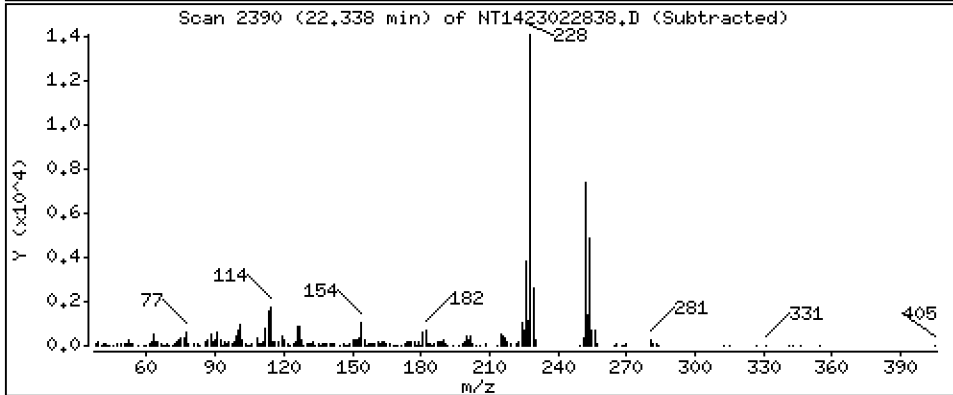
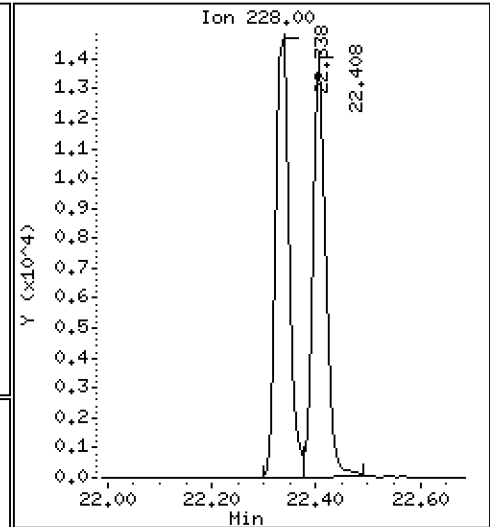
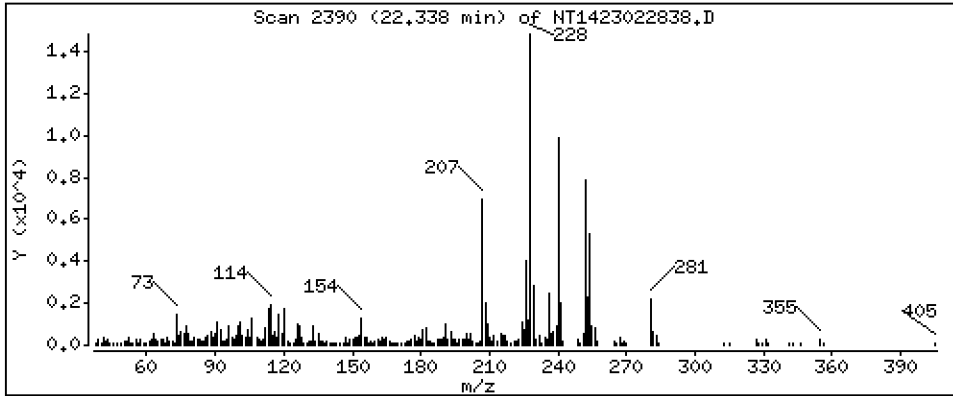
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2213 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

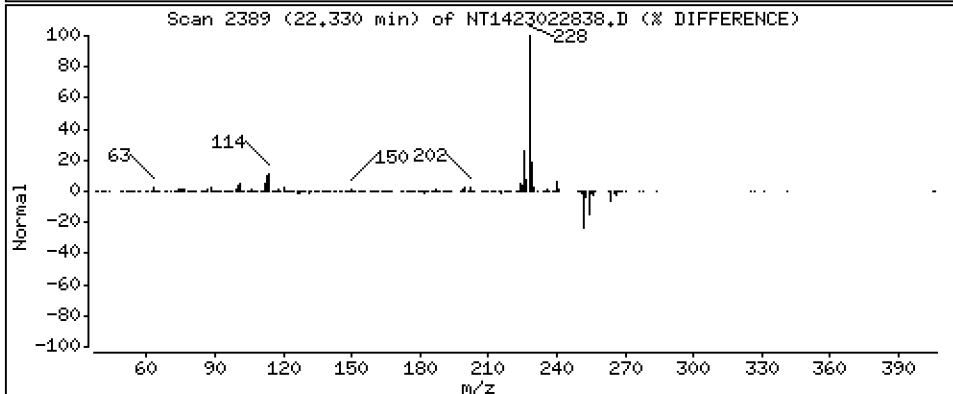
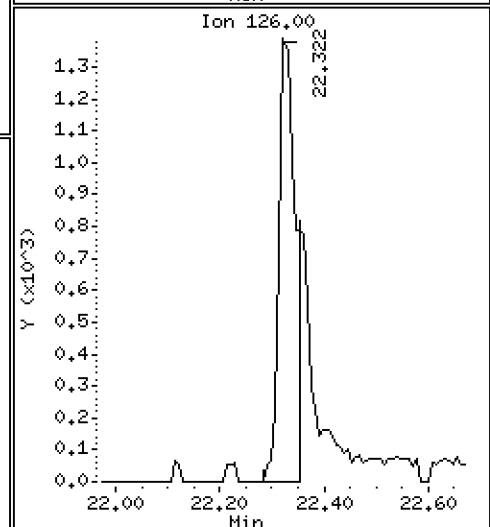
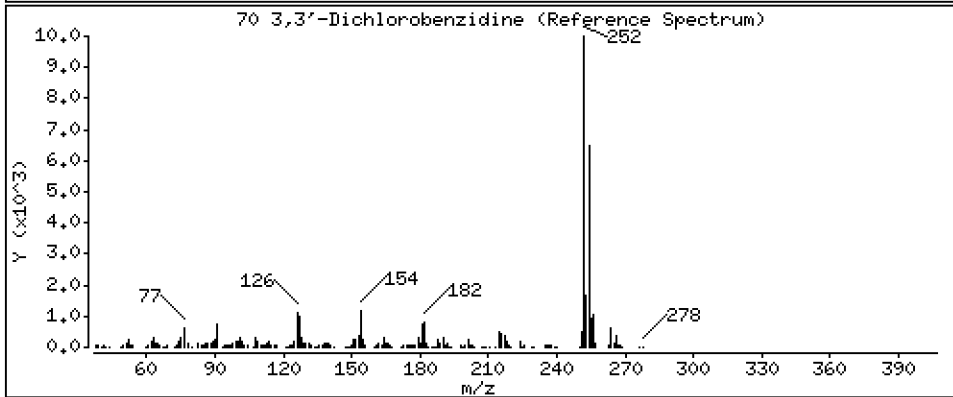
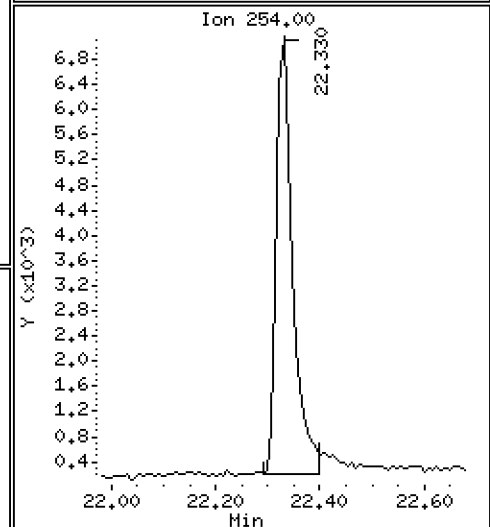
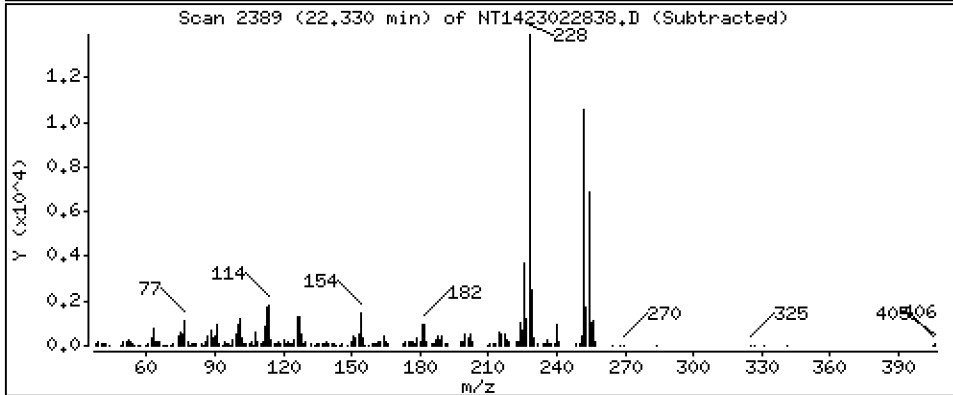
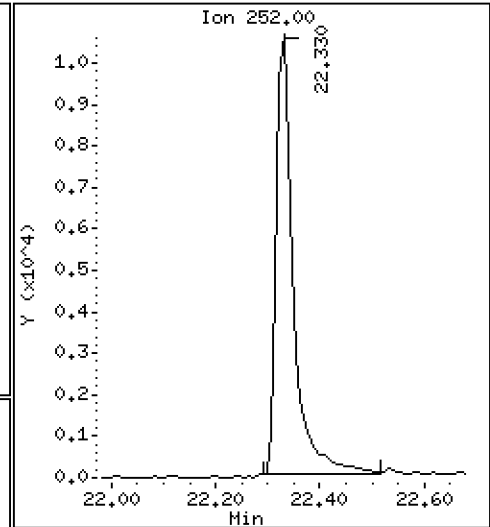
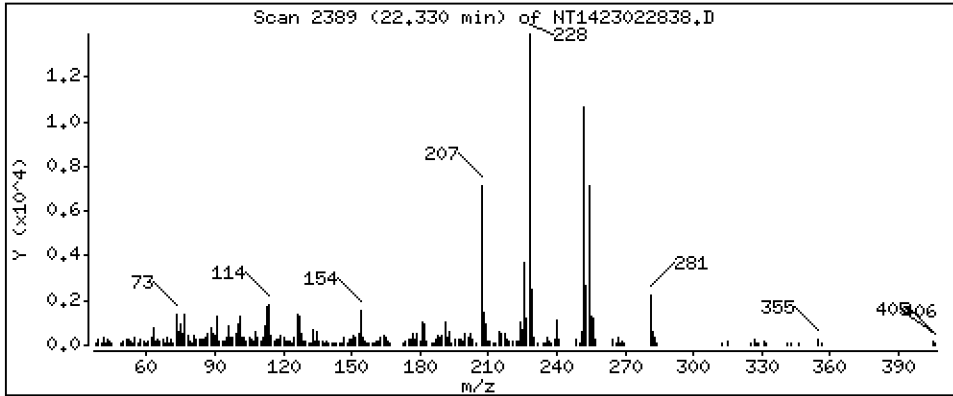
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,7194 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

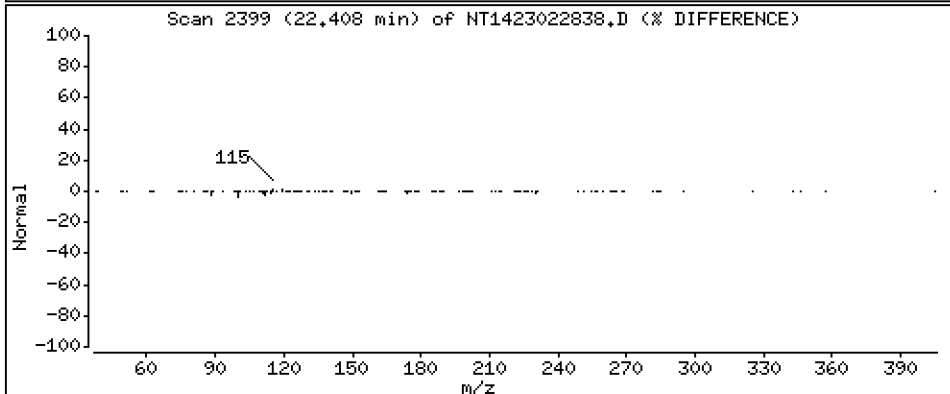
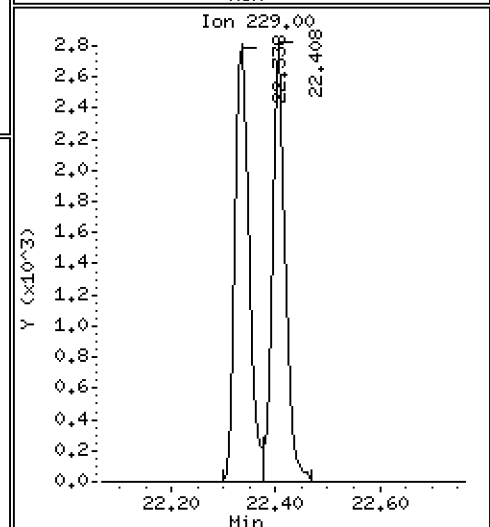
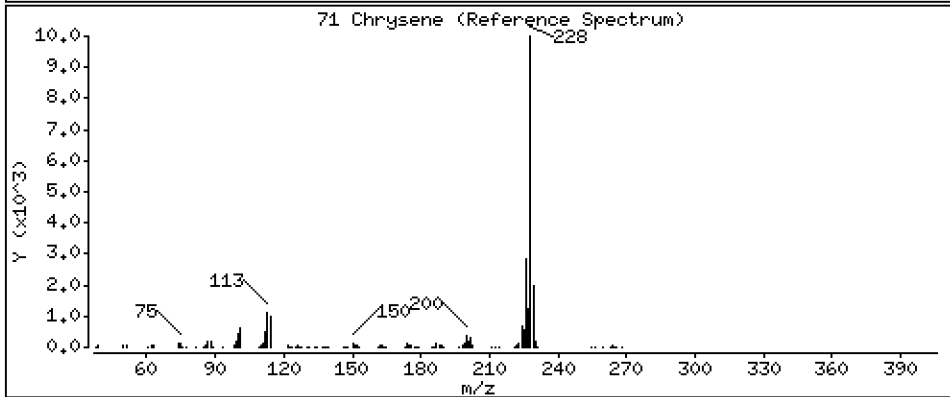
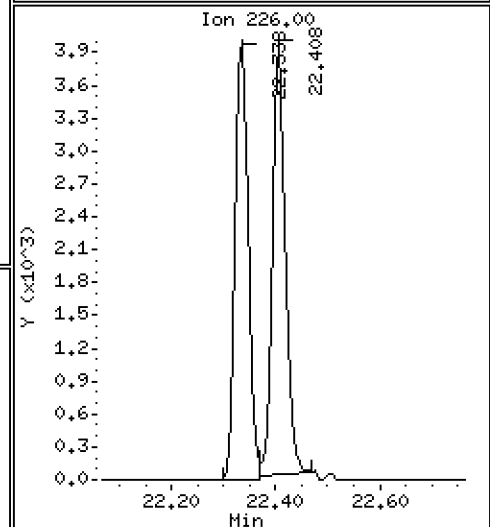
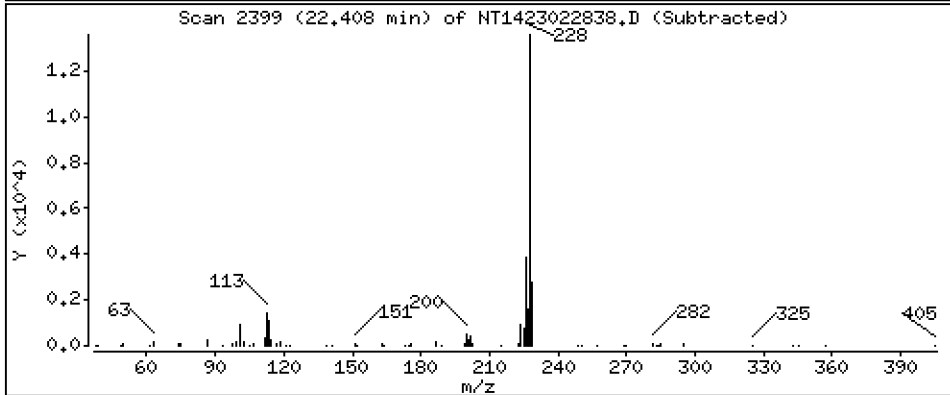
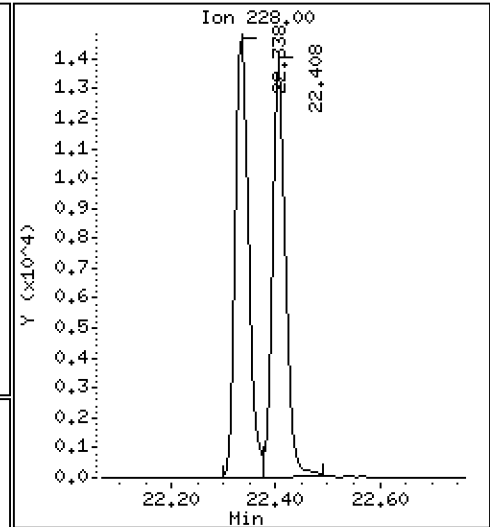
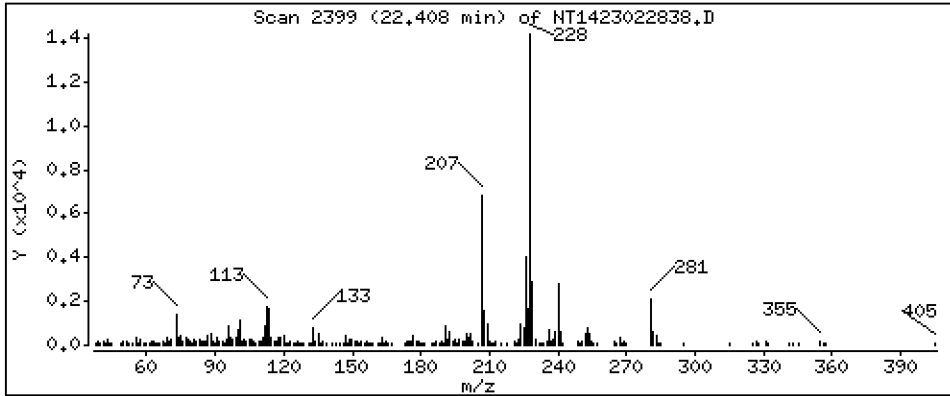
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2150 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

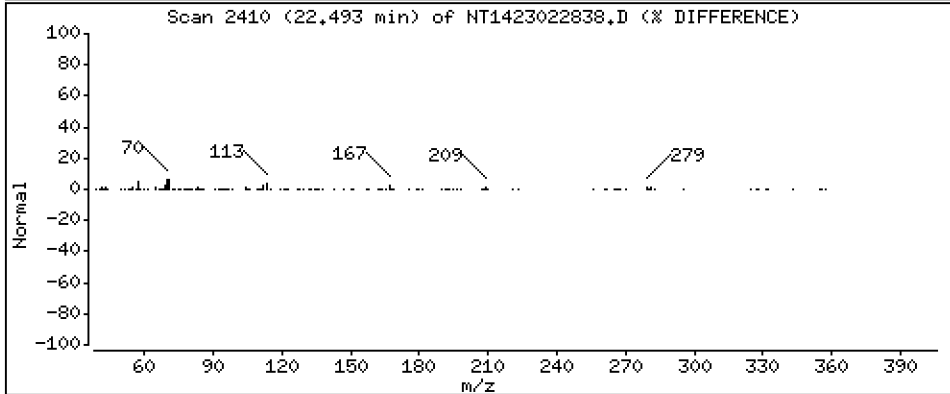
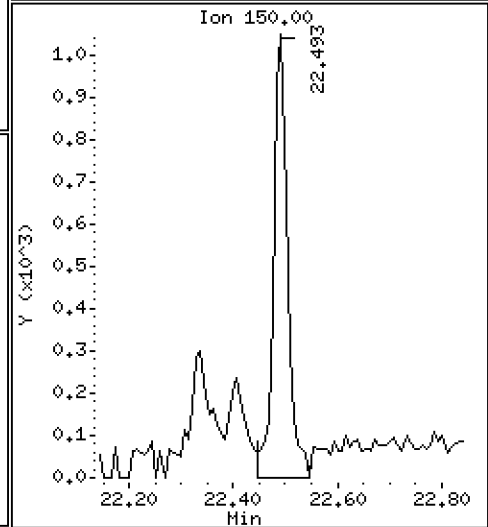
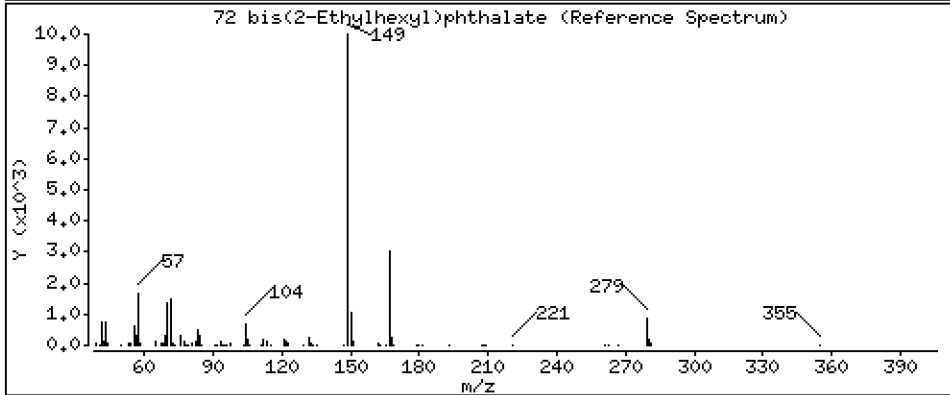
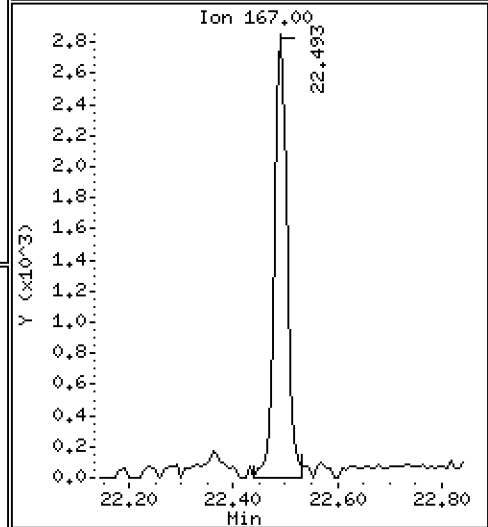
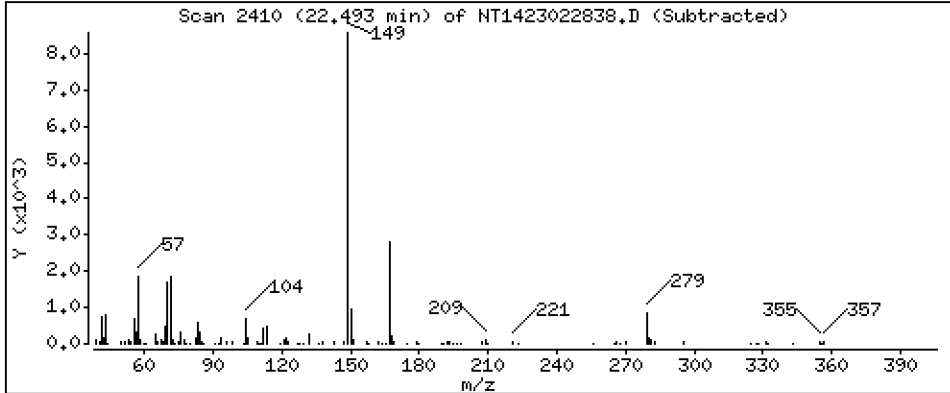
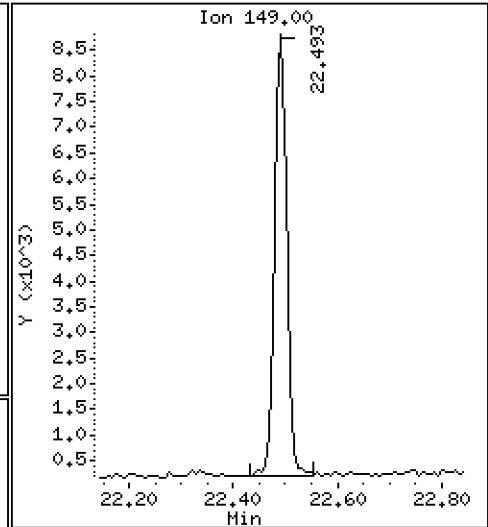
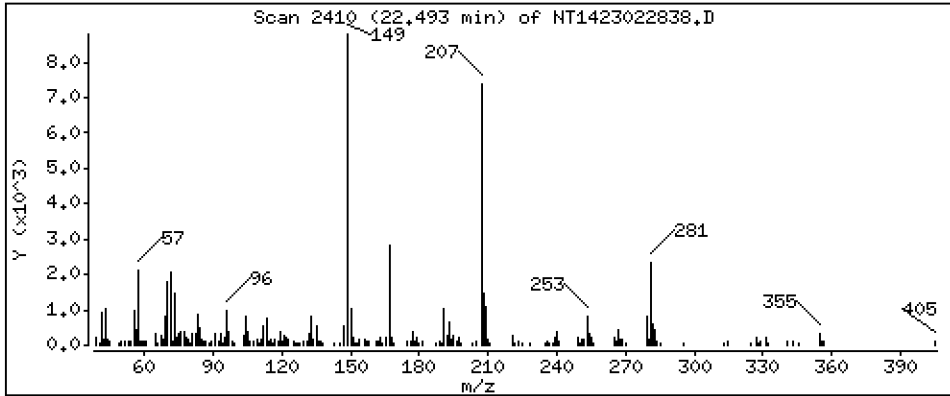
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,1769 ug/mL





Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

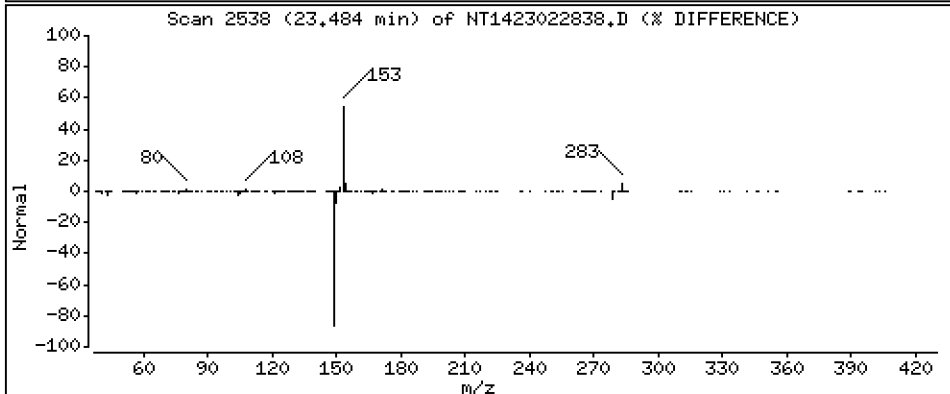
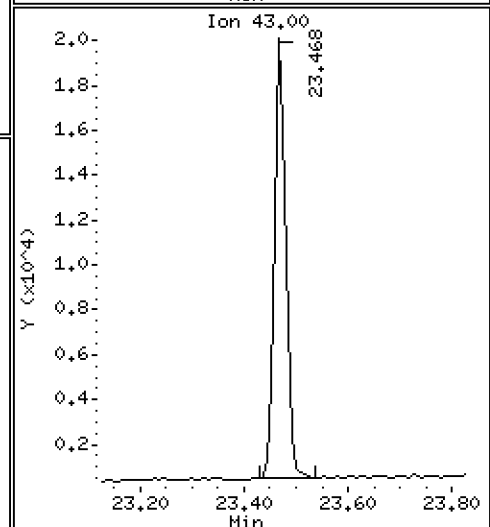
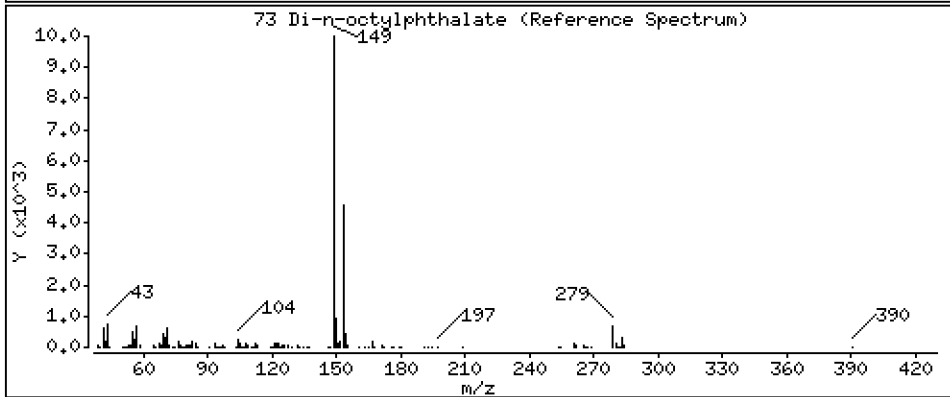
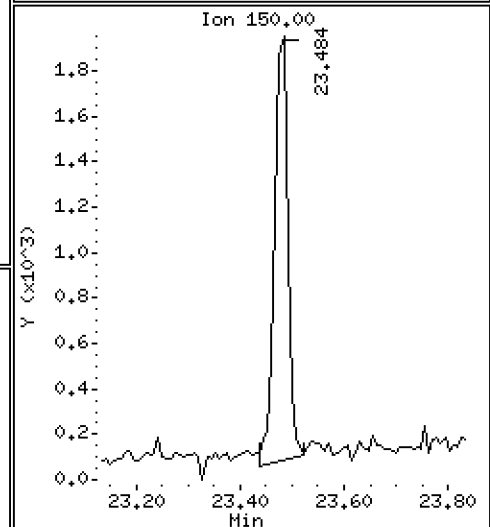
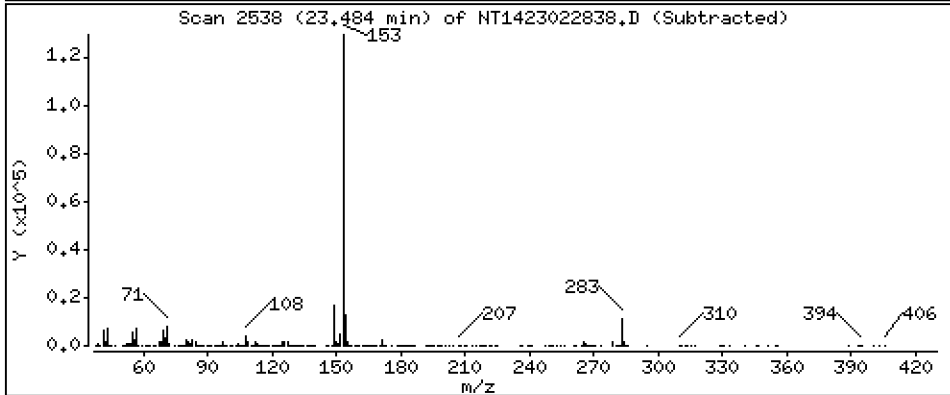
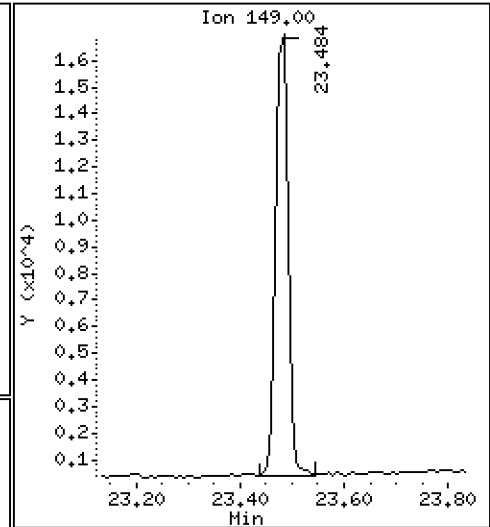
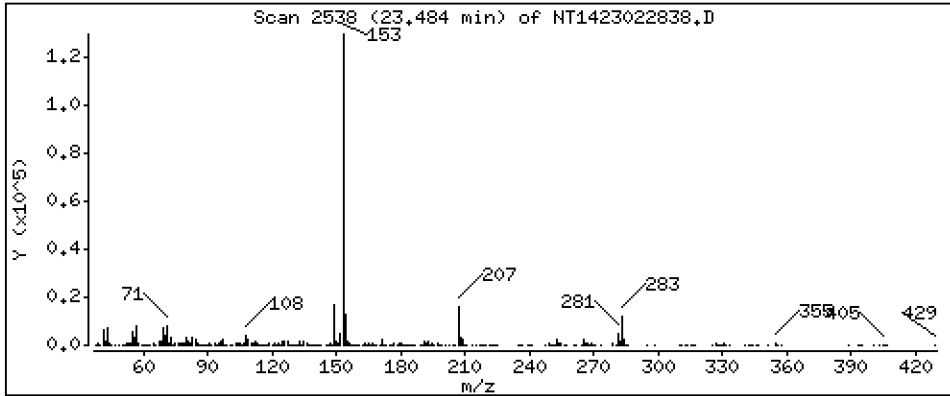
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2029 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

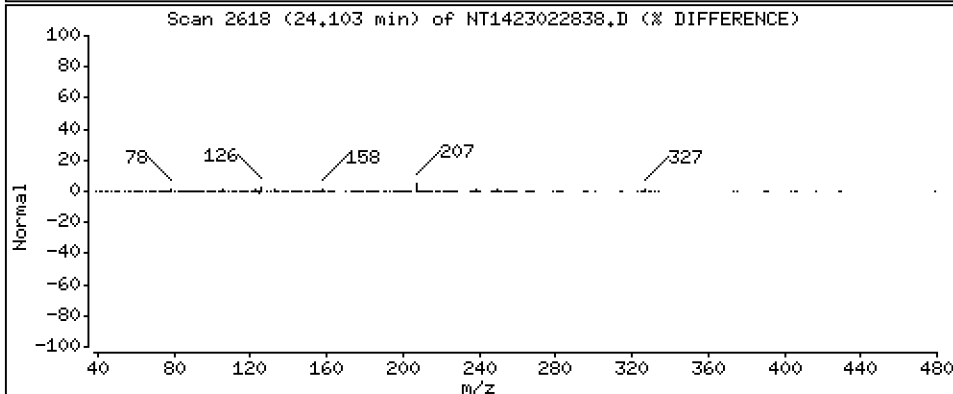
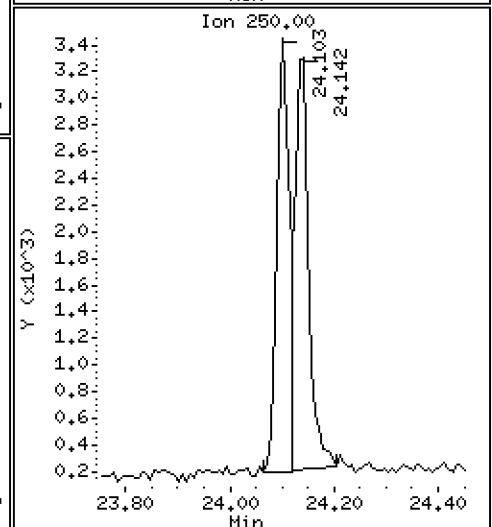
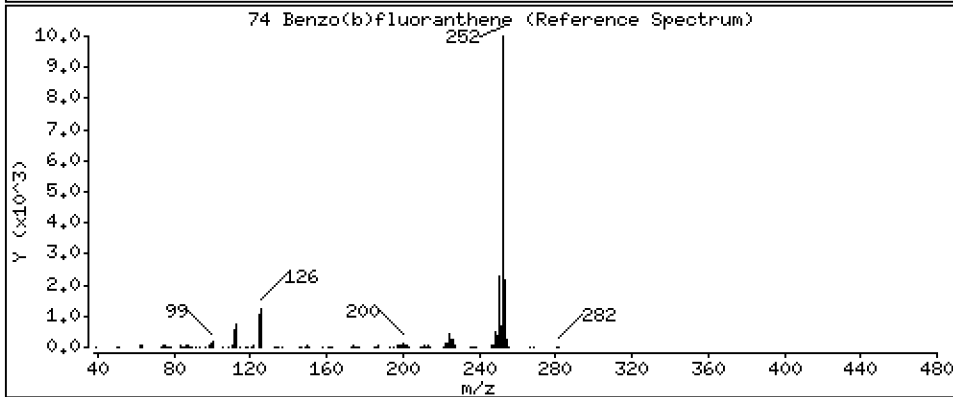
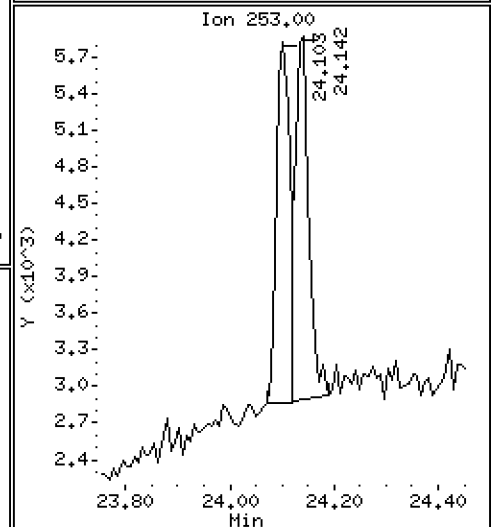
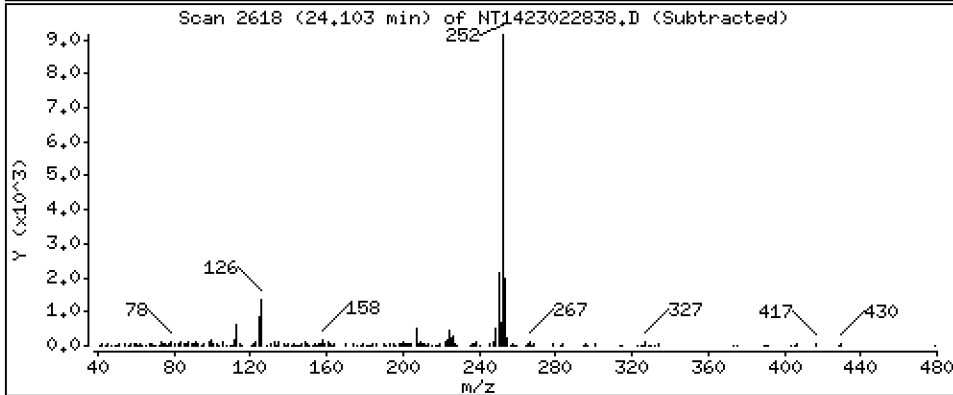
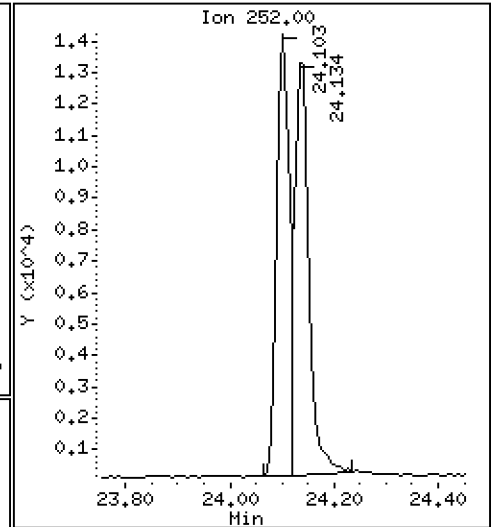
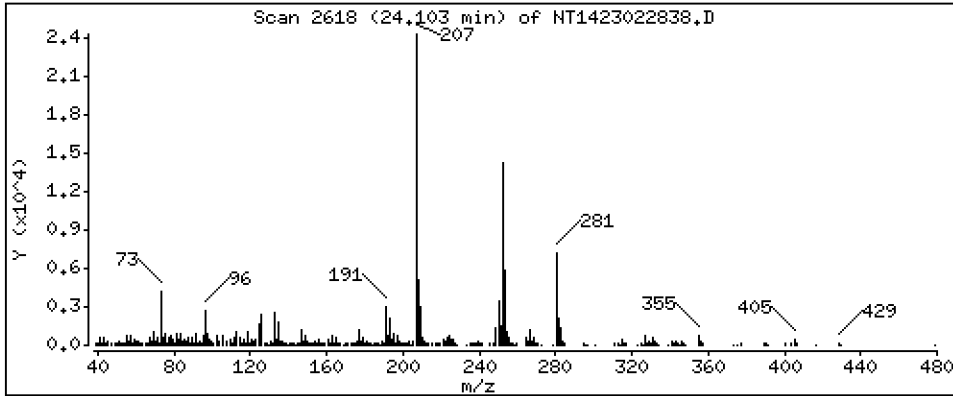
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,2228 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

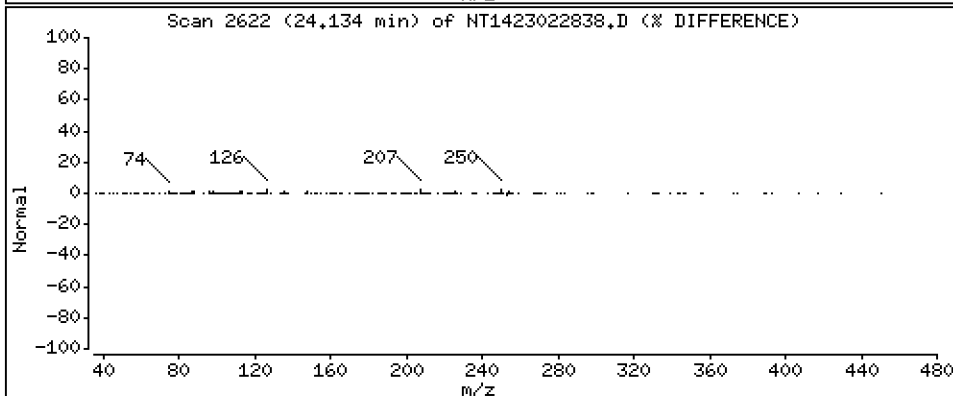
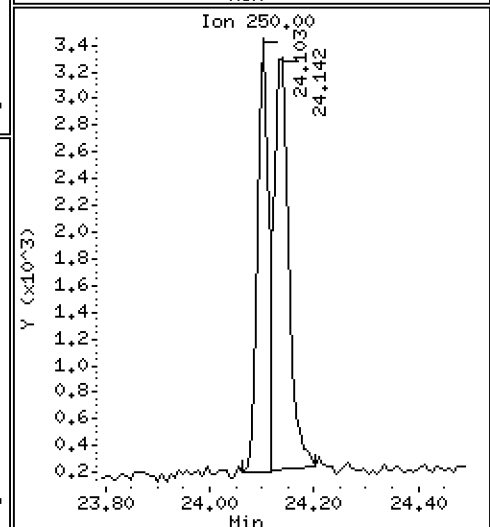
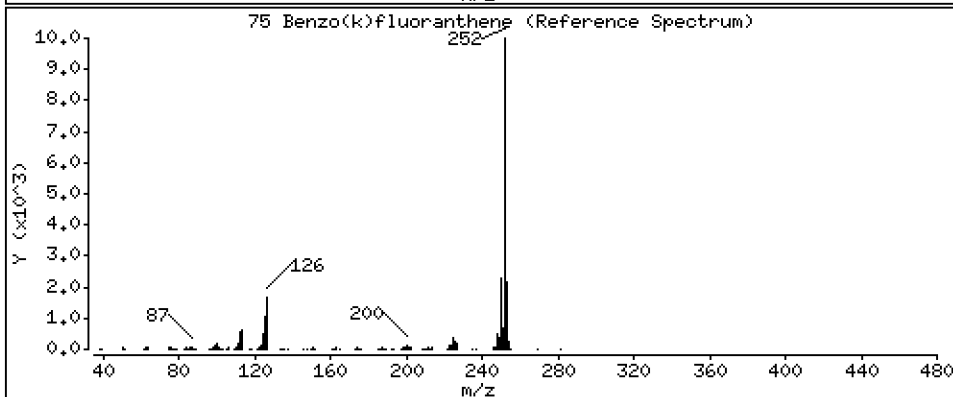
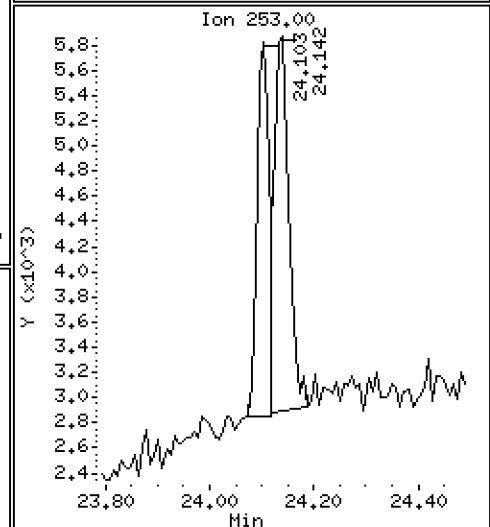
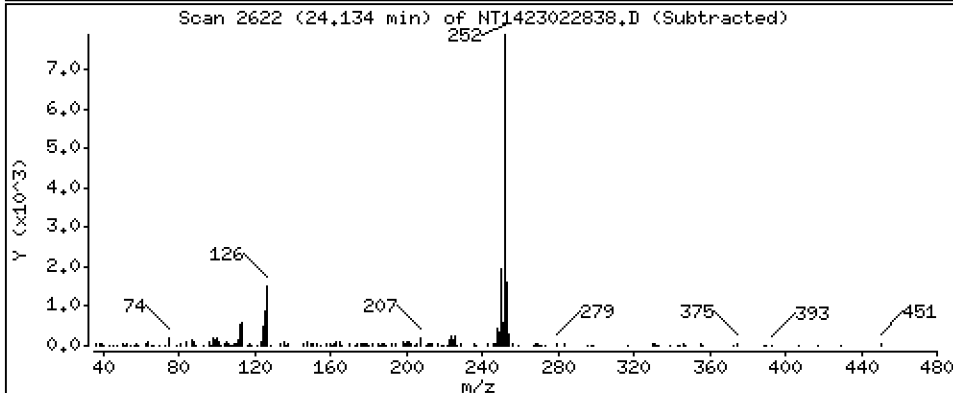
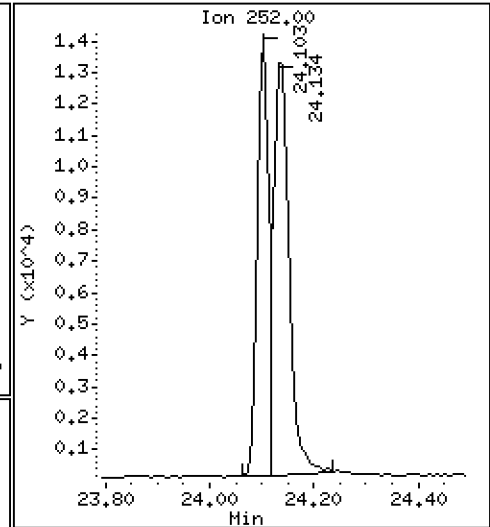
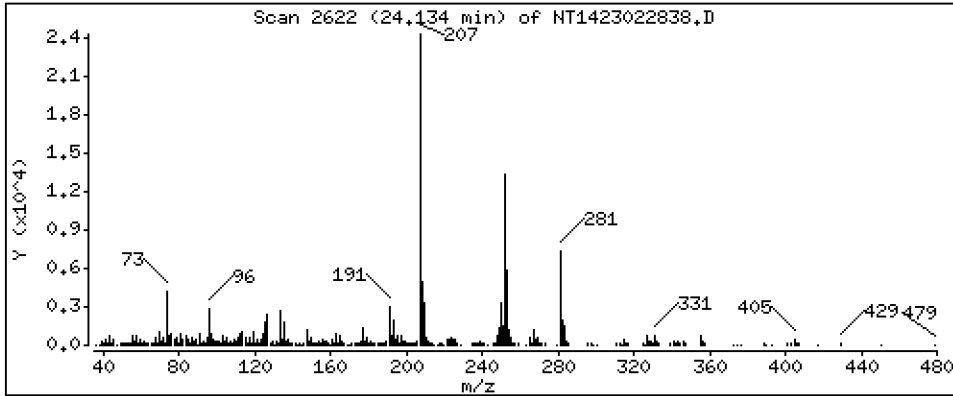
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2464 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

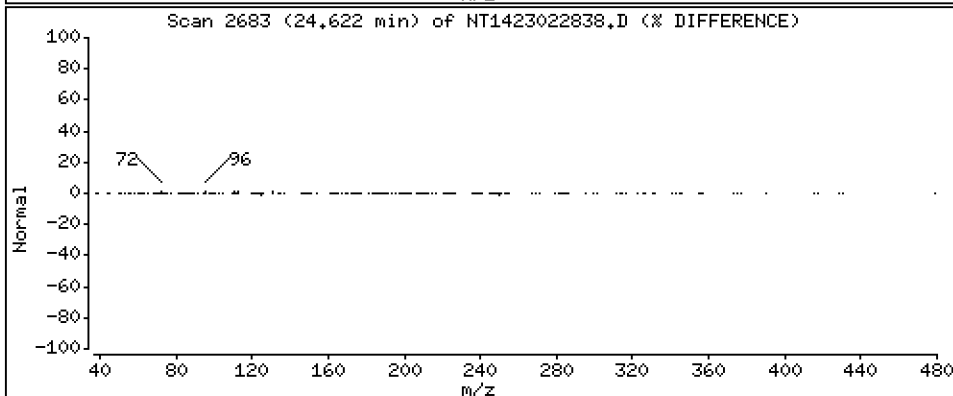
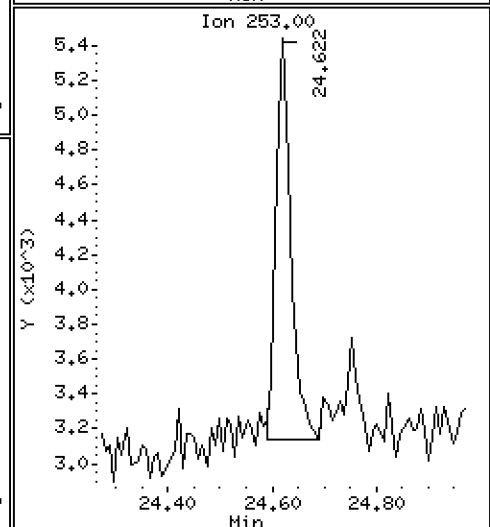
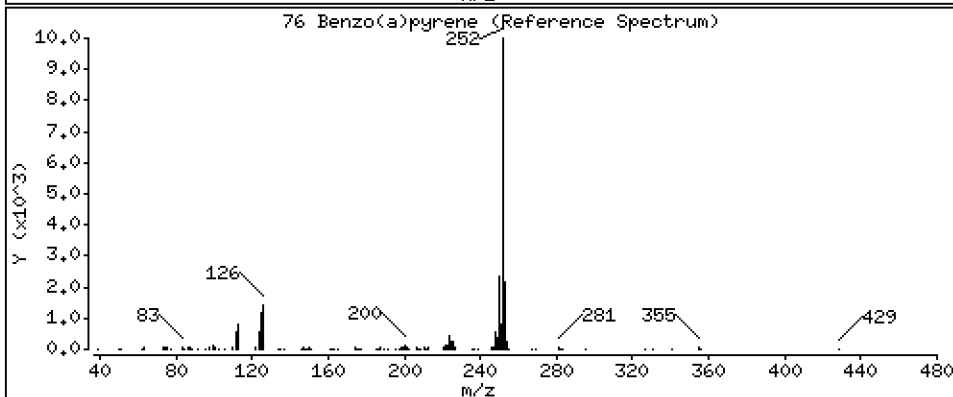
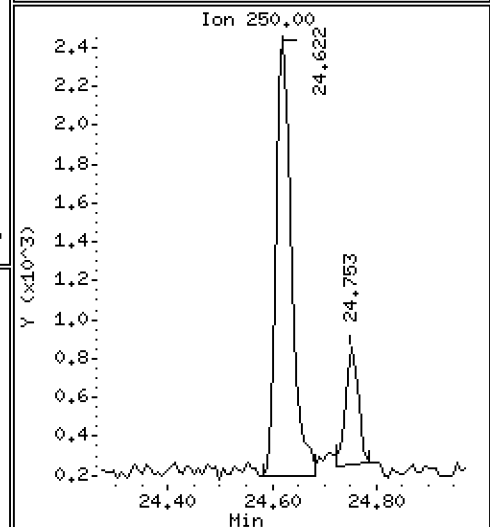
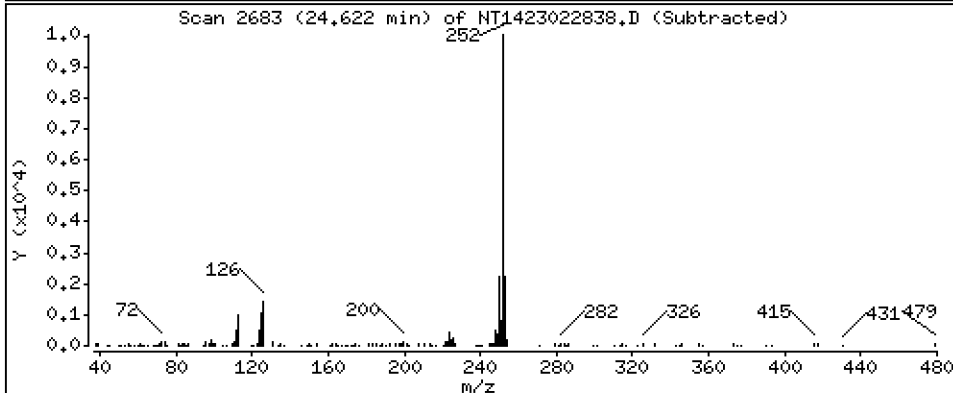
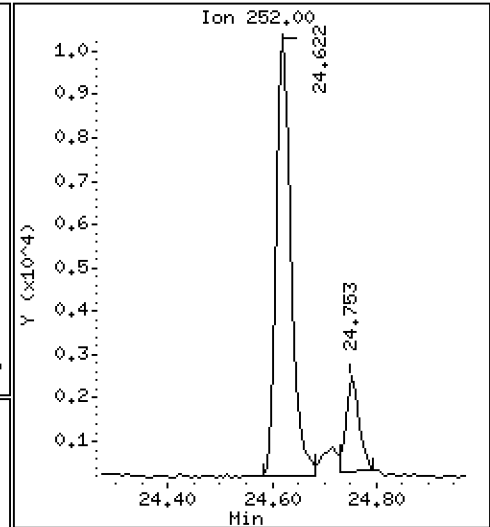
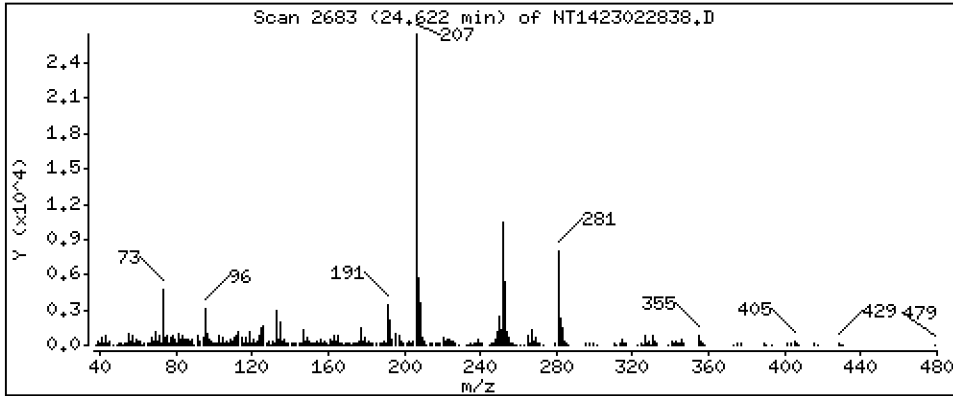
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2128 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

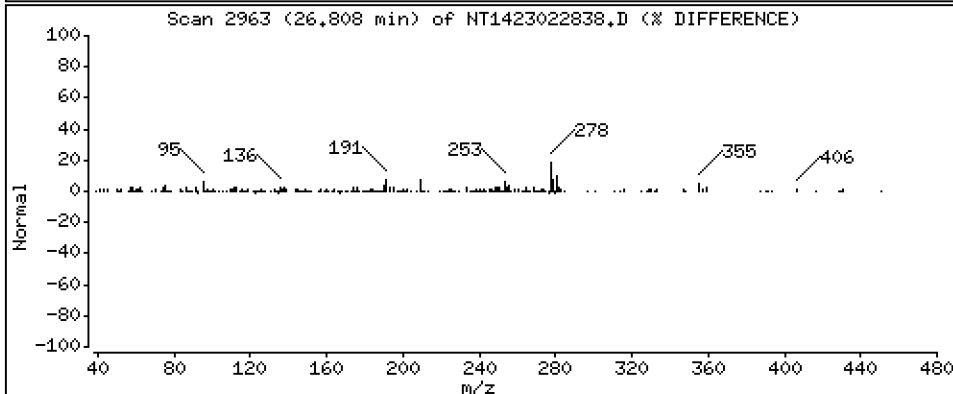
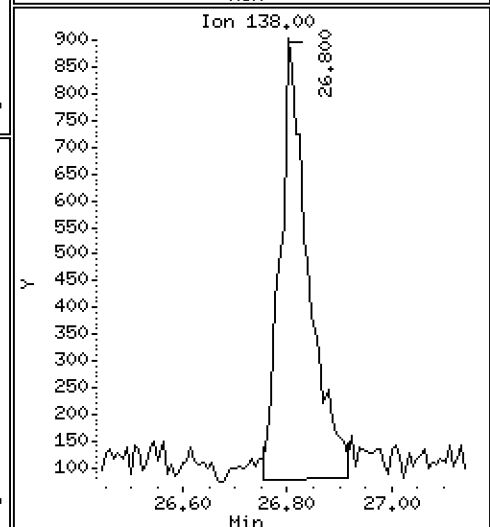
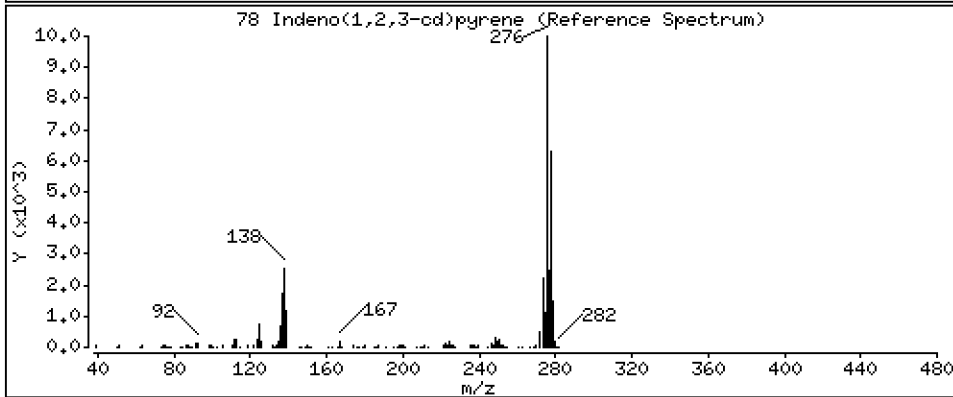
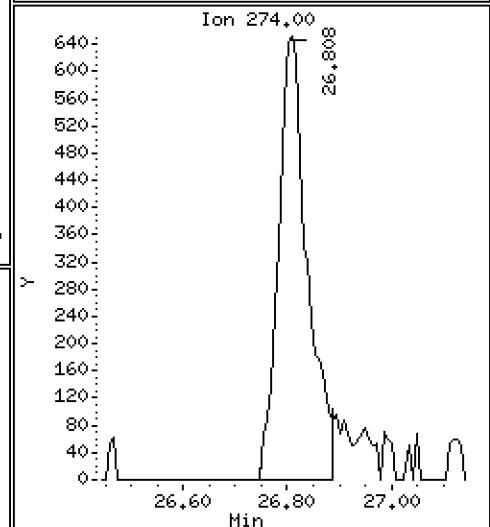
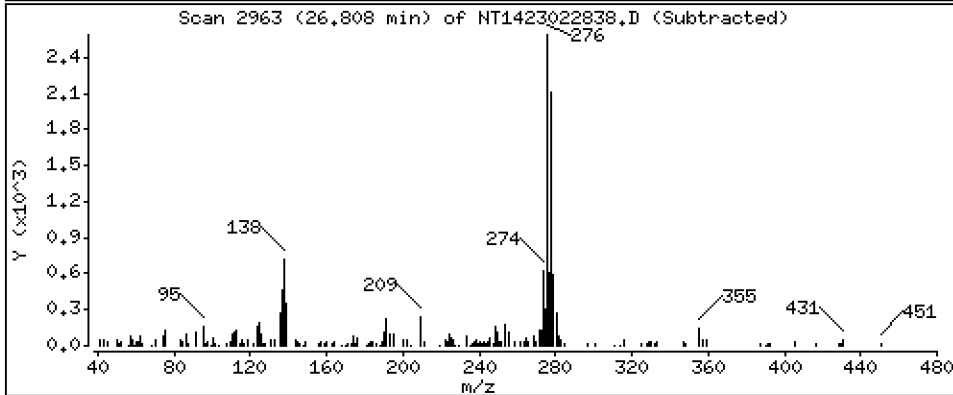
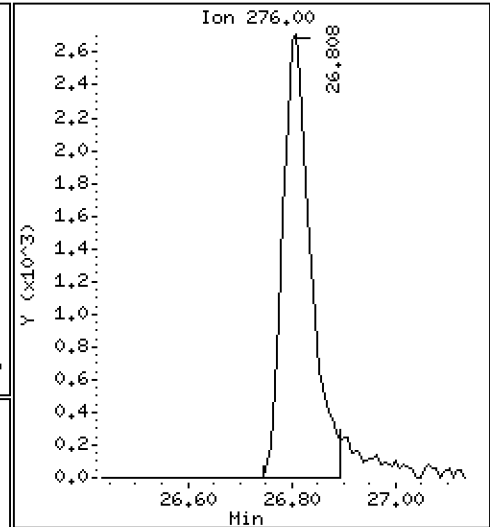
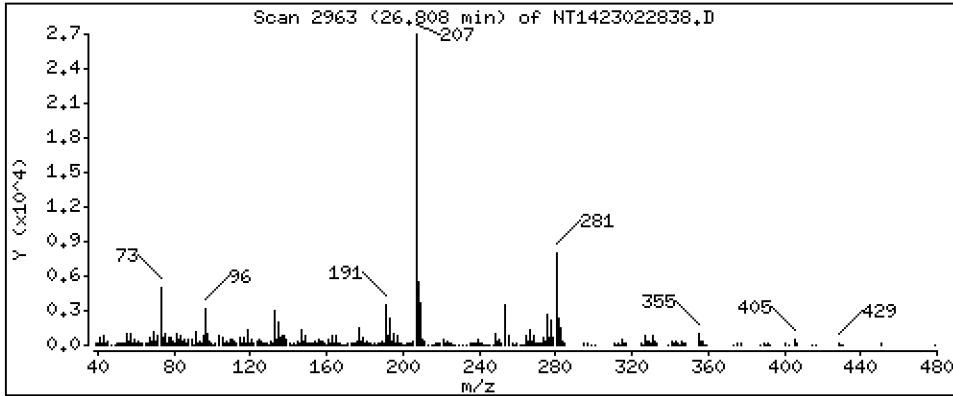
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,09023 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

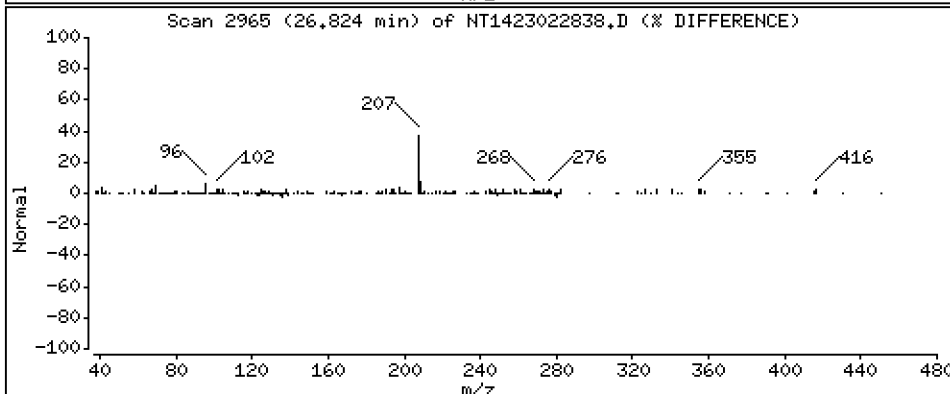
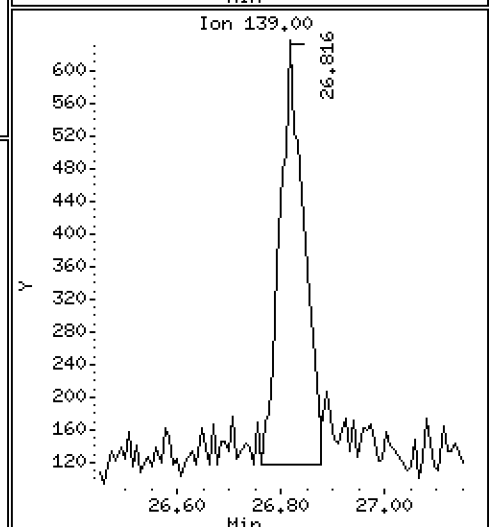
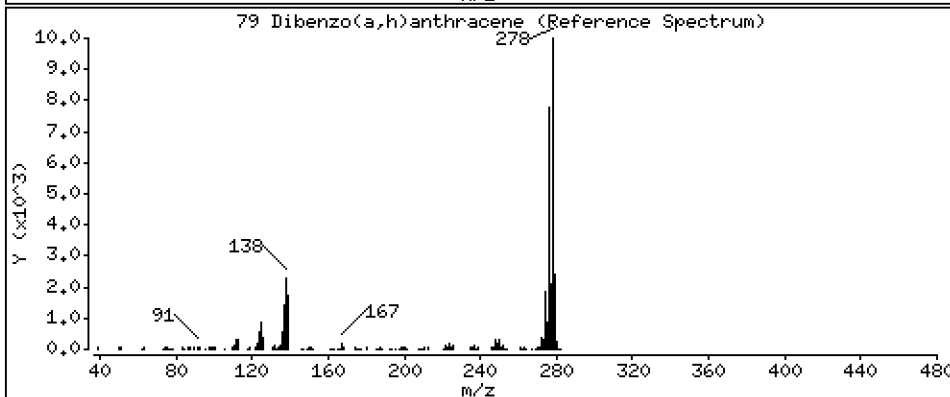
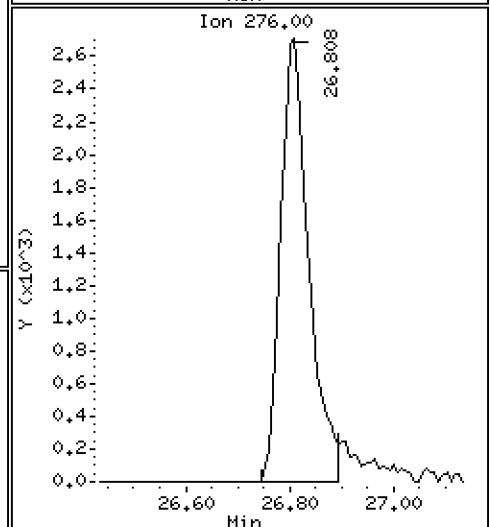
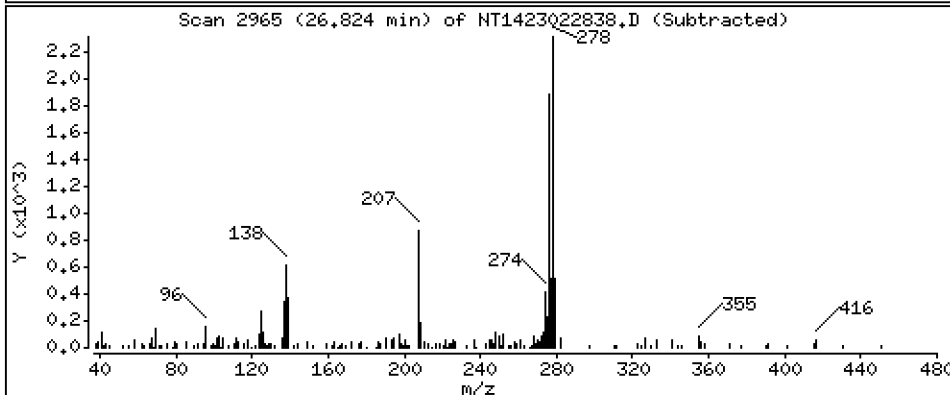
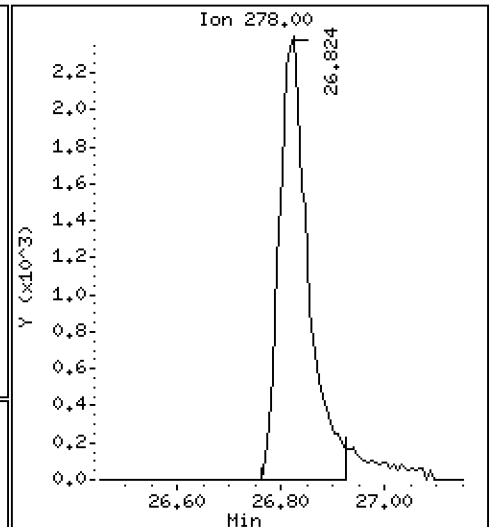
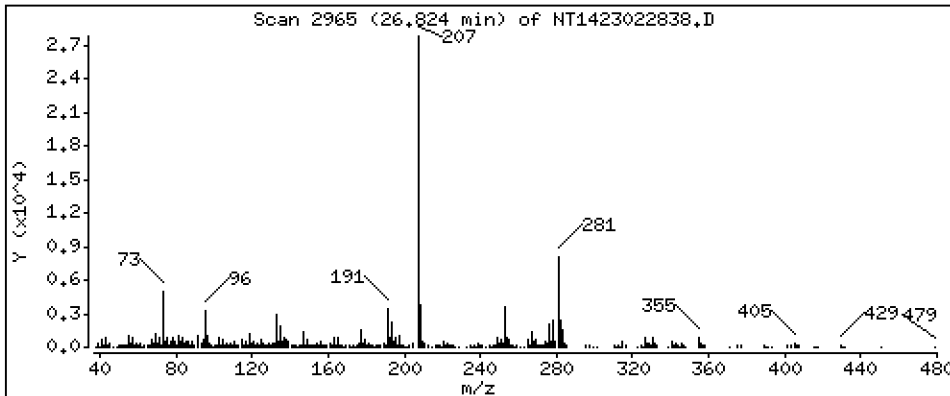
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,09853 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

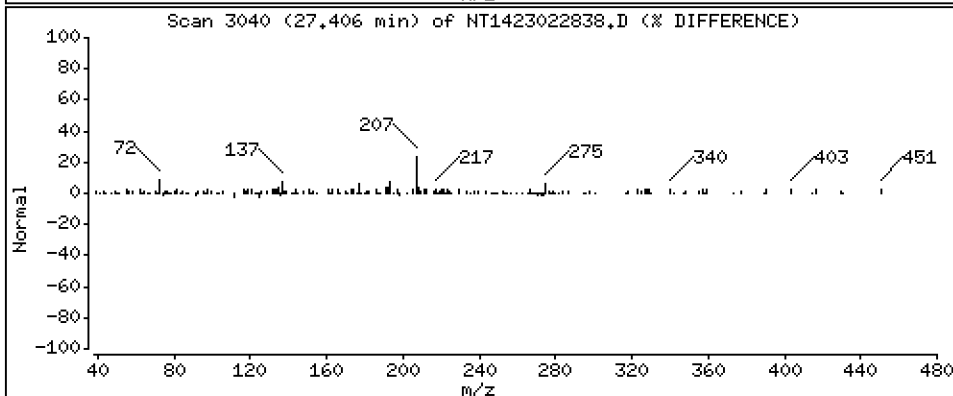
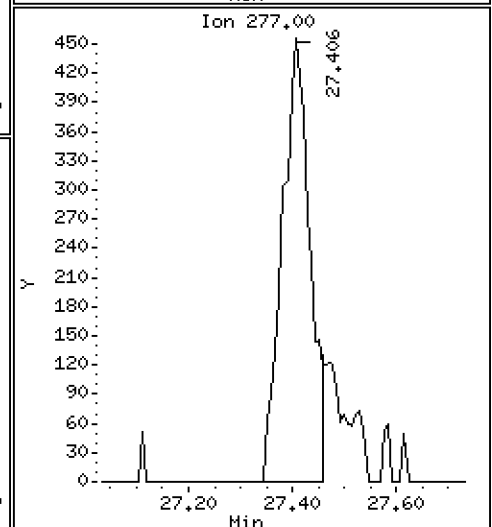
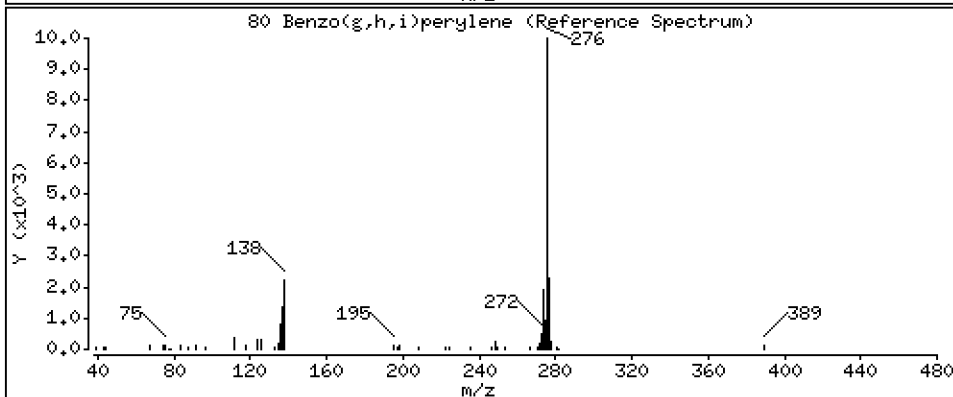
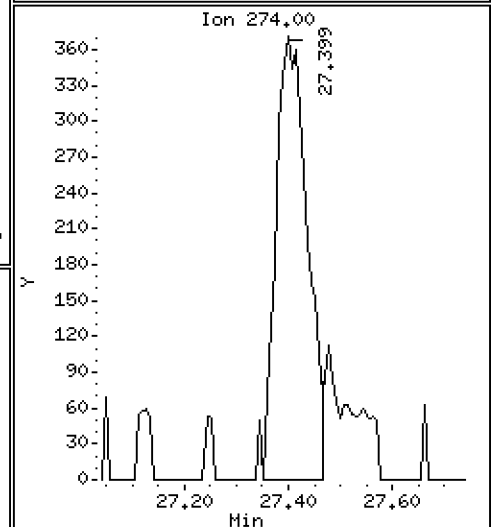
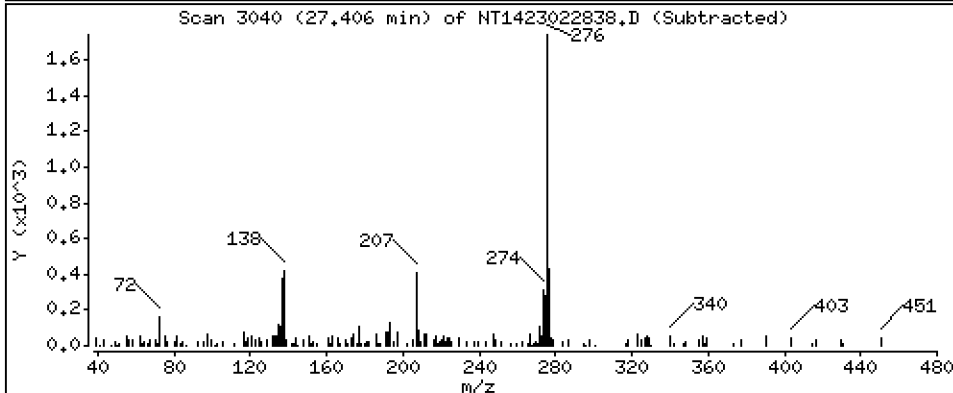
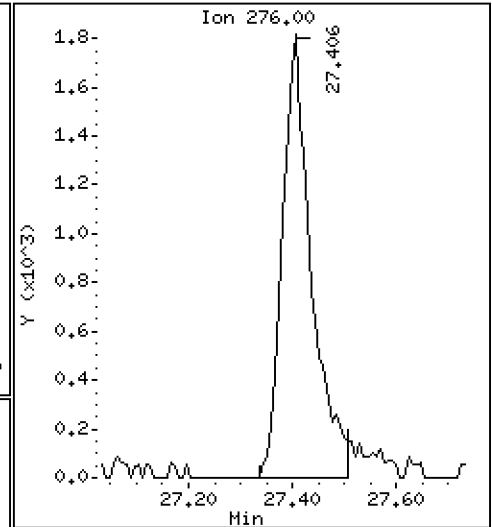
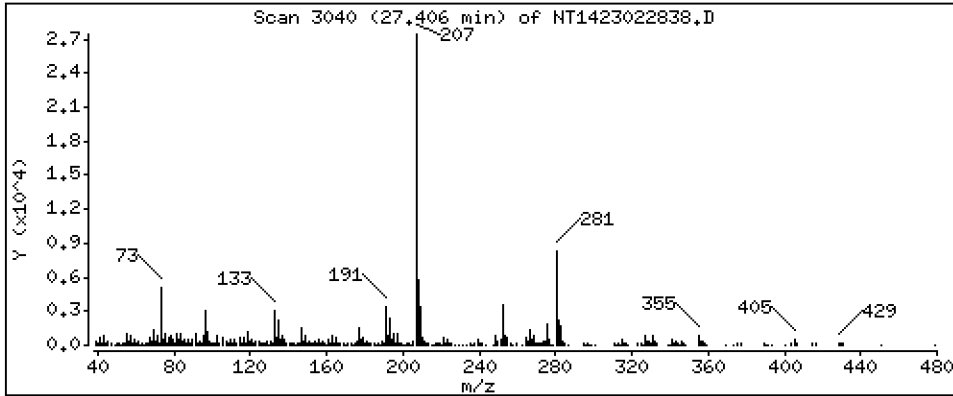
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,07140 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

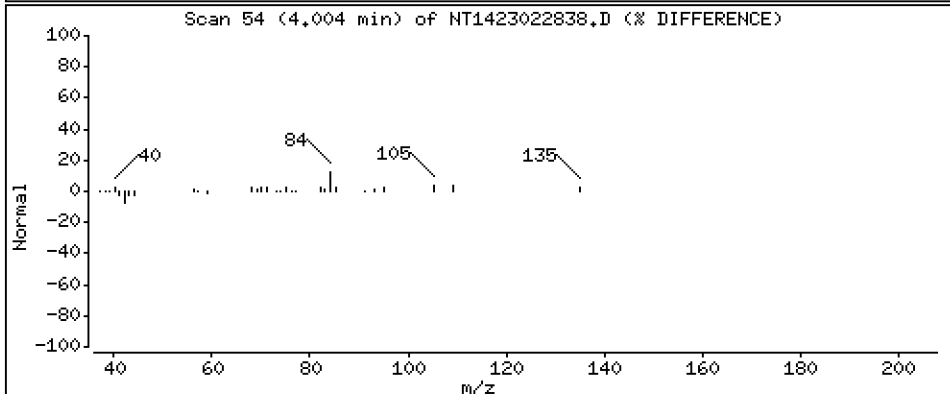
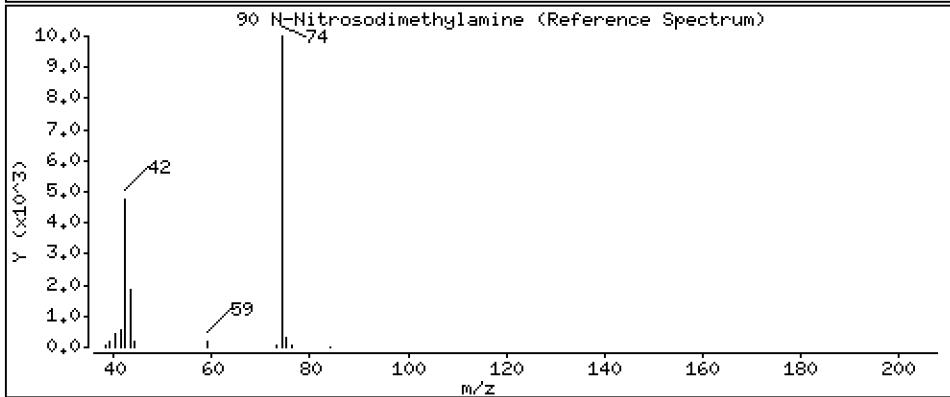
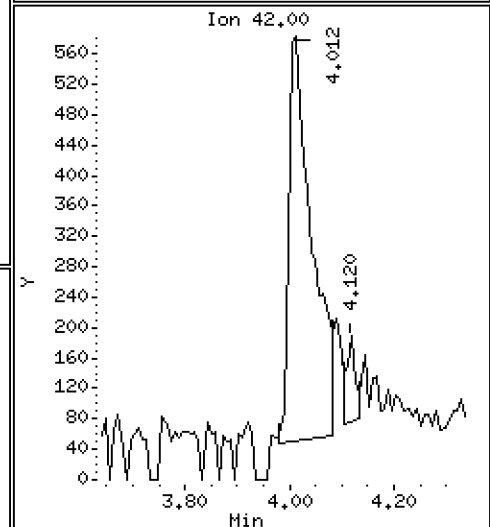
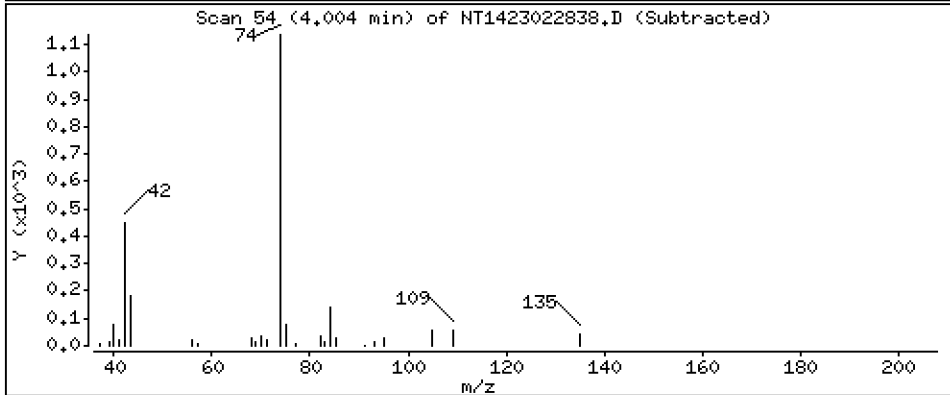
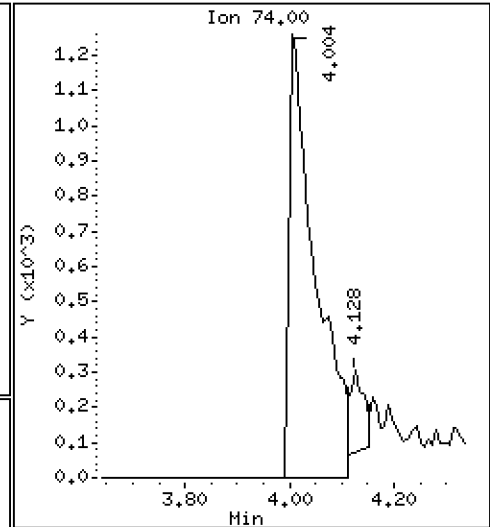
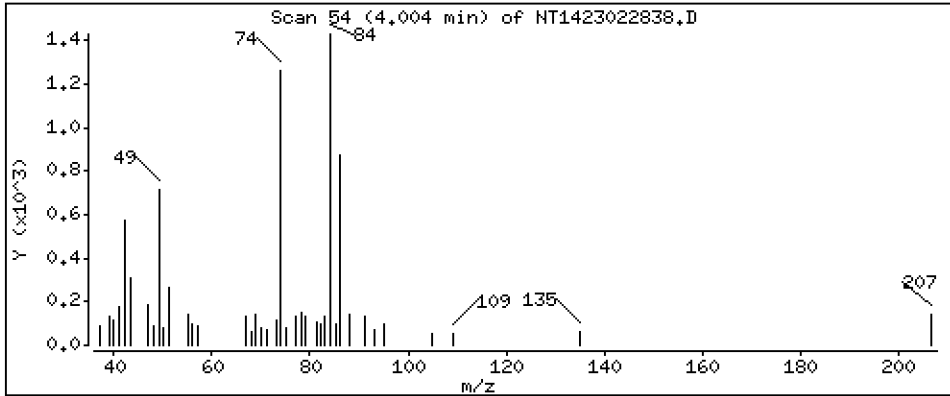
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,1925 ug/mL





Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

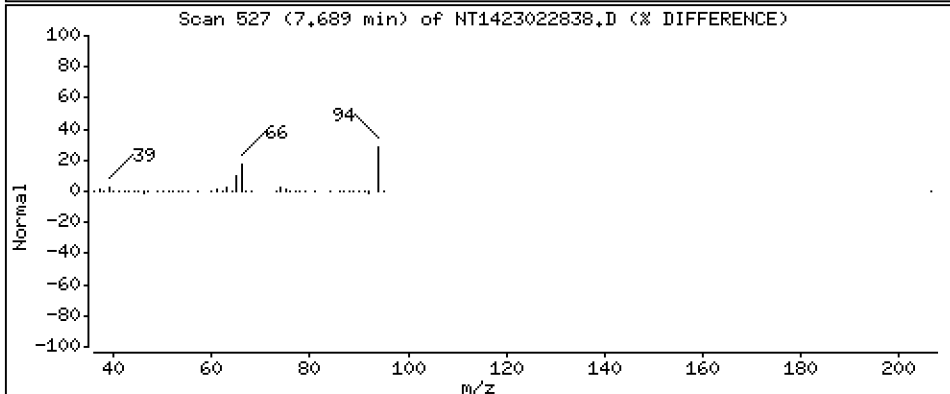
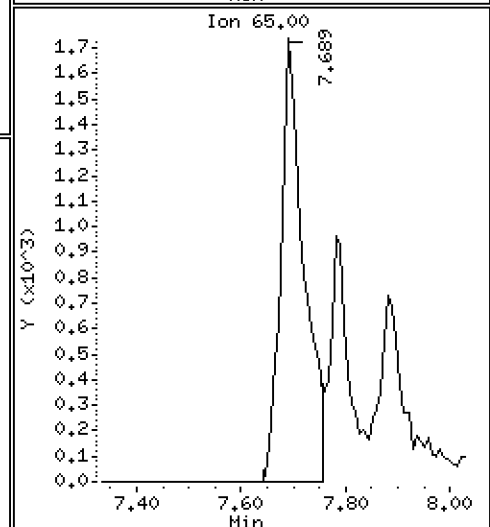
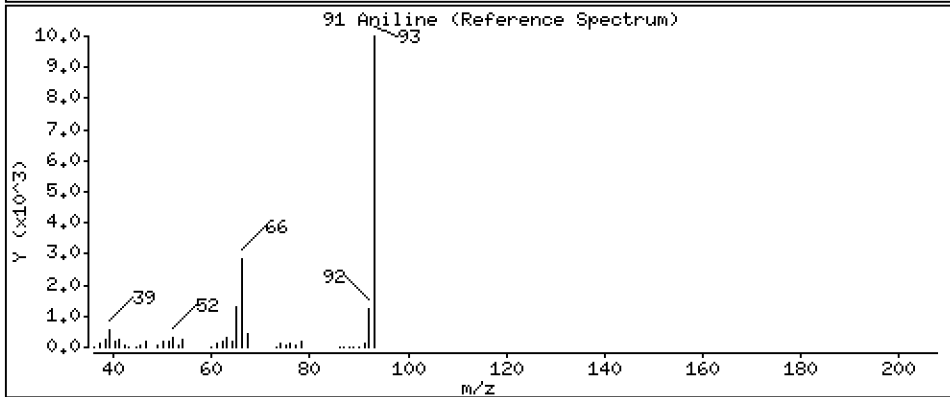
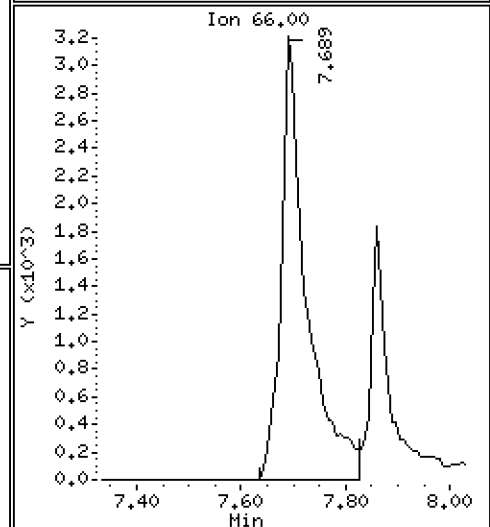
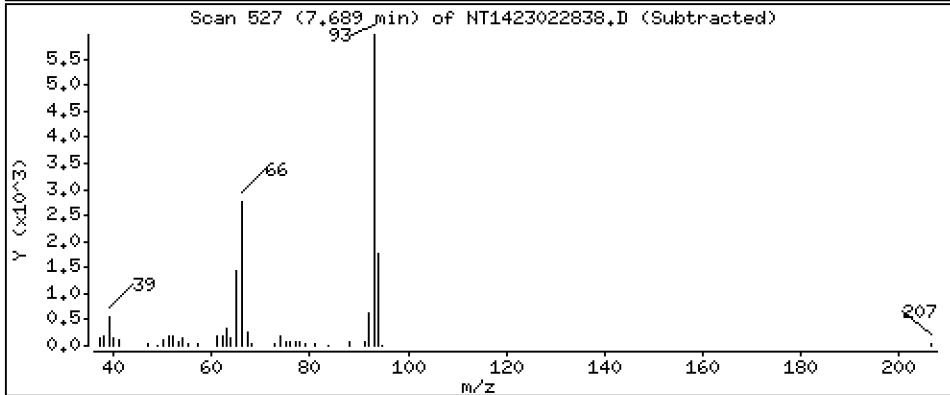
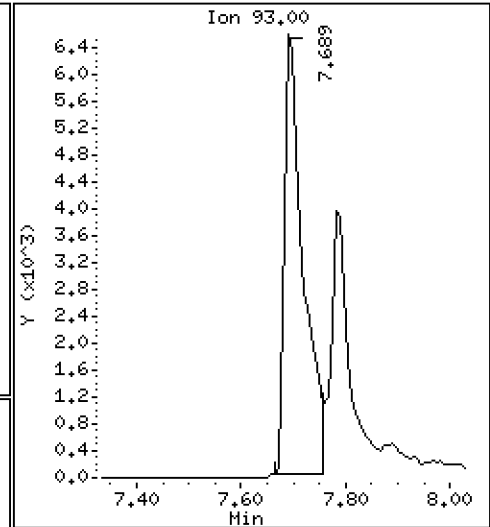
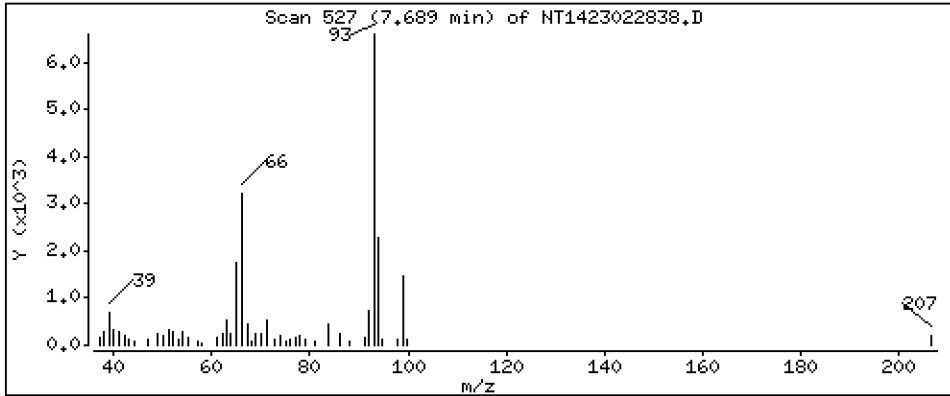
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,3000 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

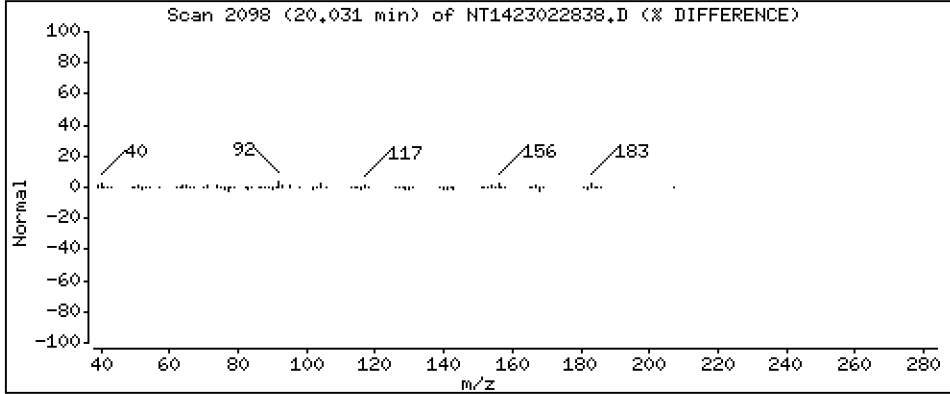
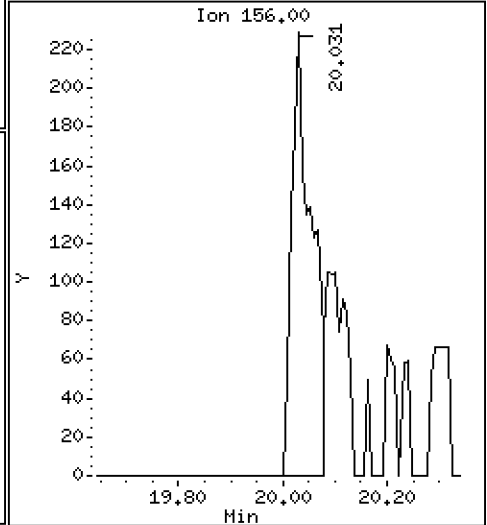
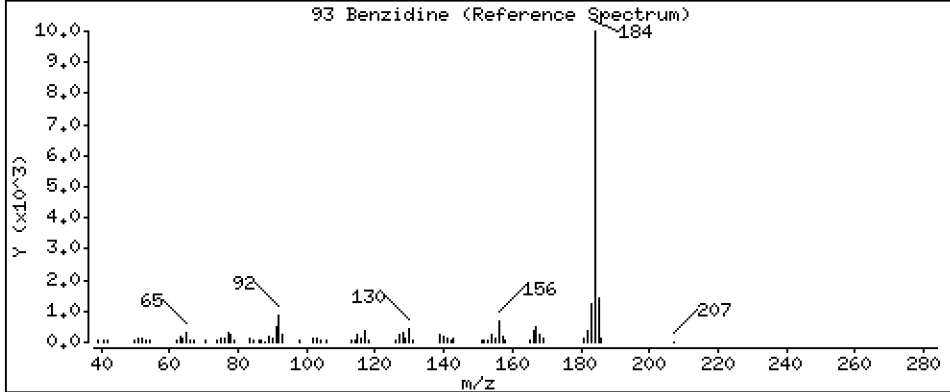
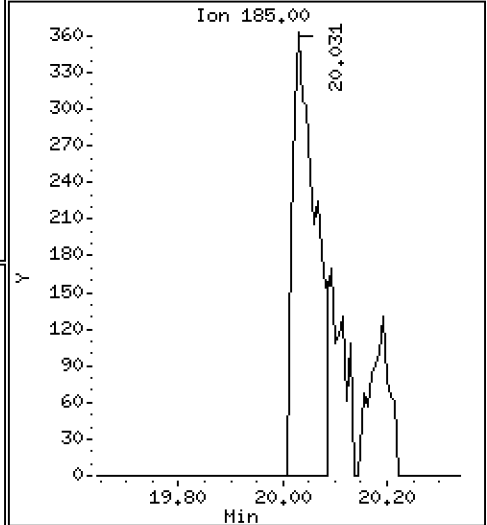
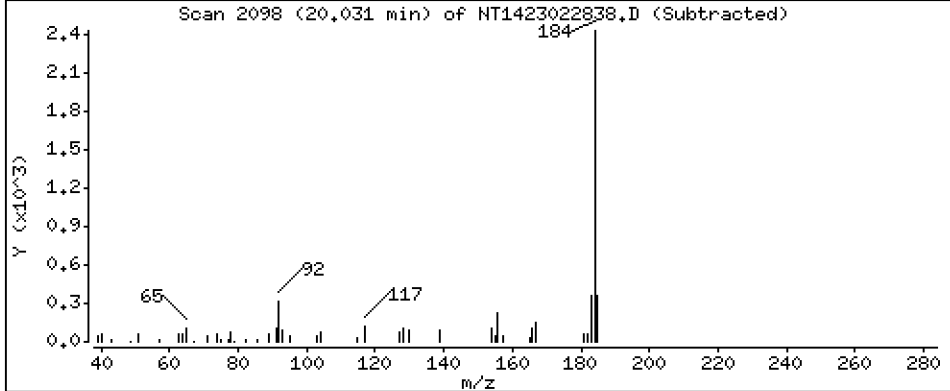
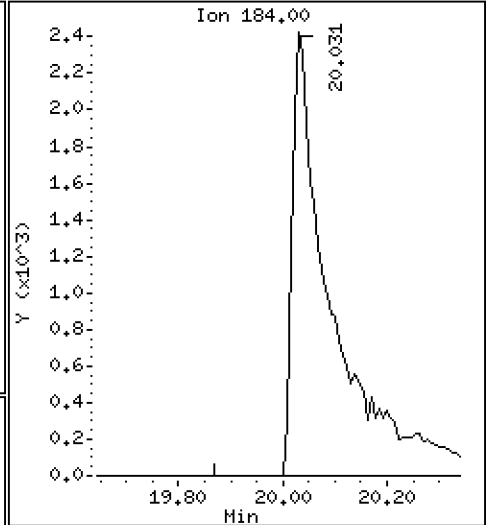
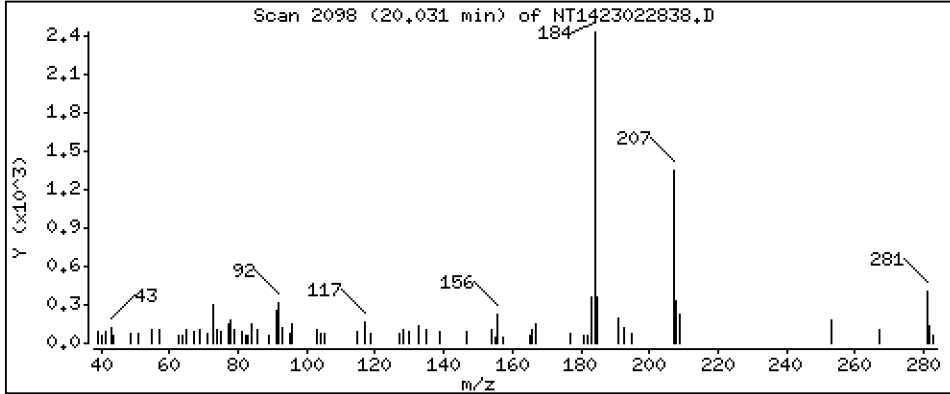
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,2721 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

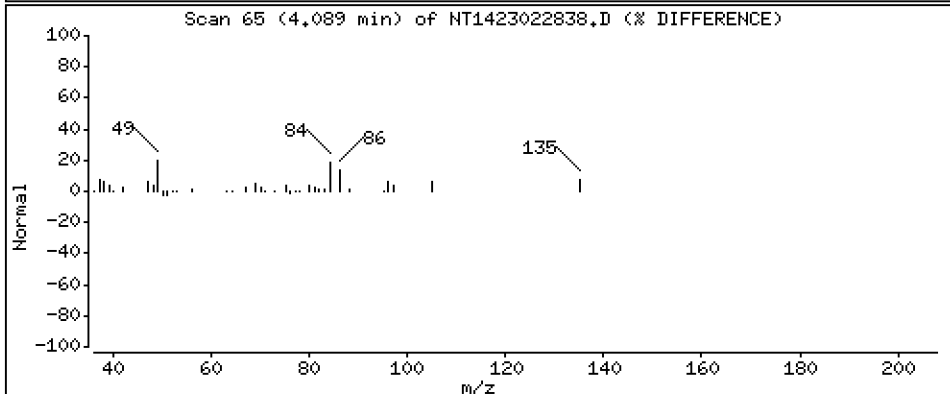
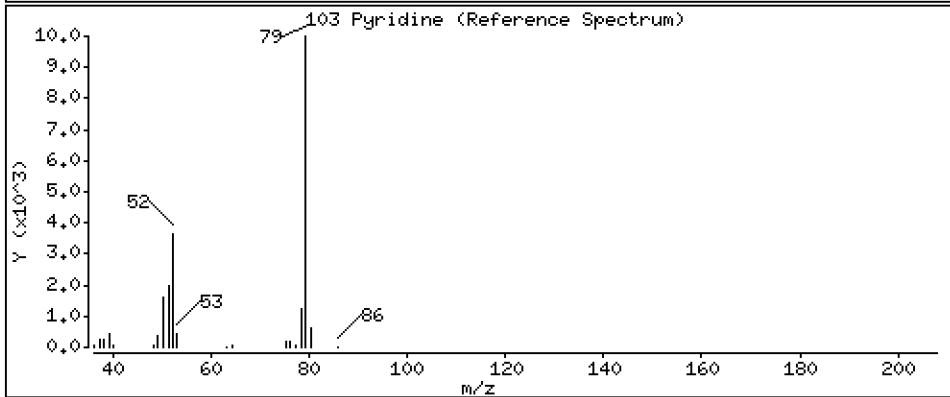
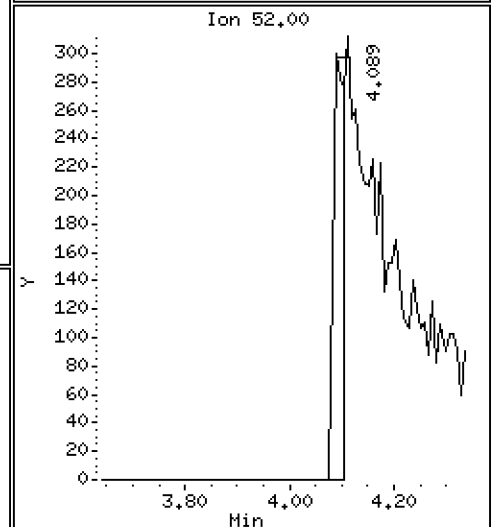
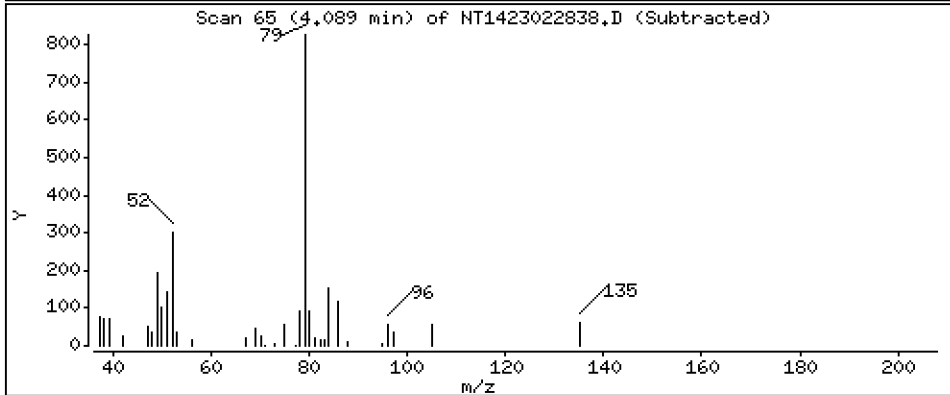
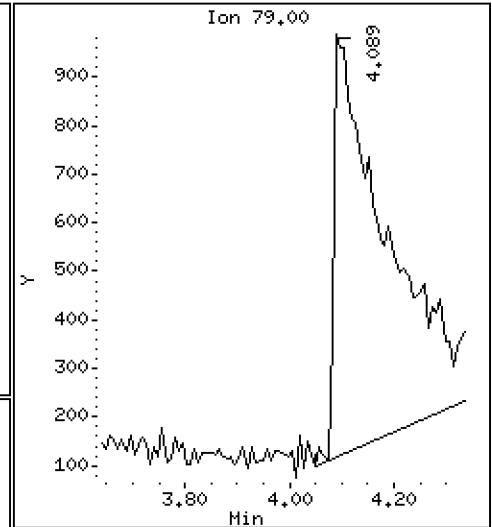
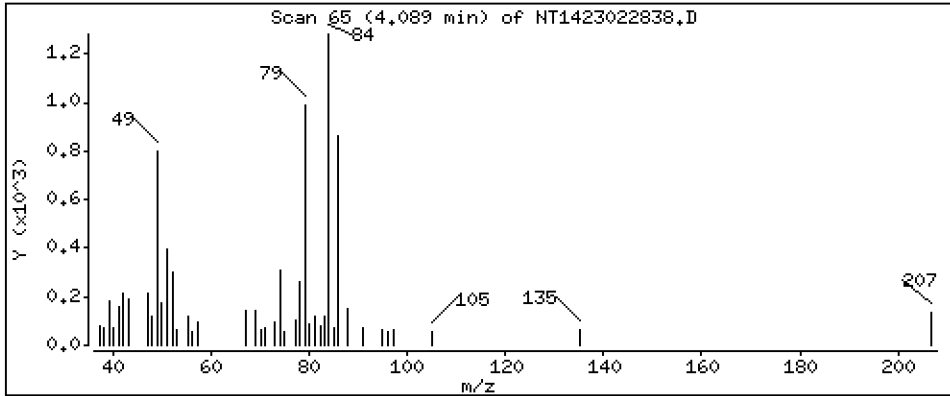
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,1132 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

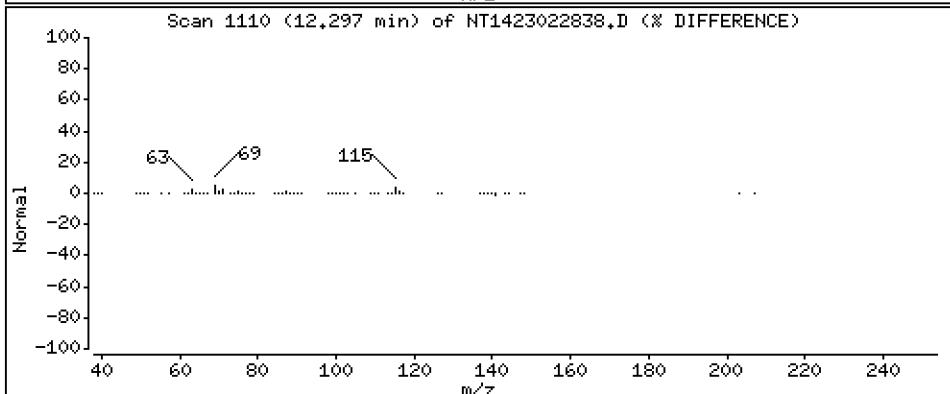
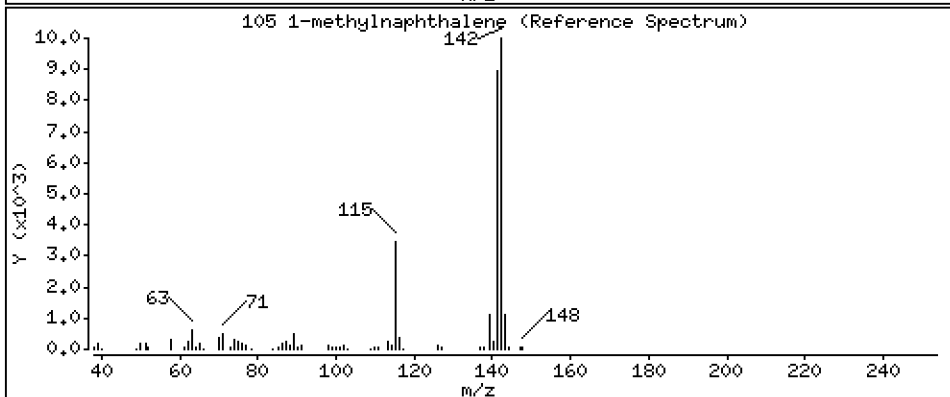
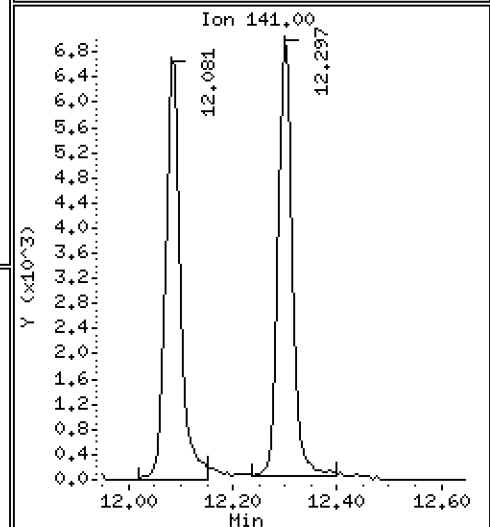
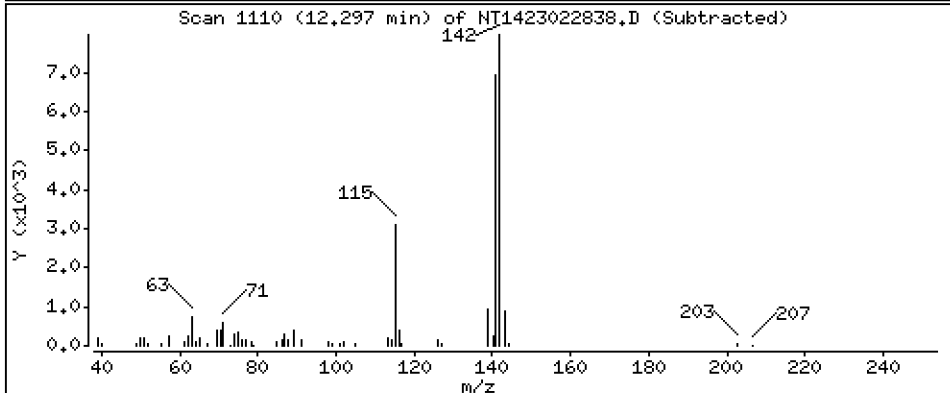
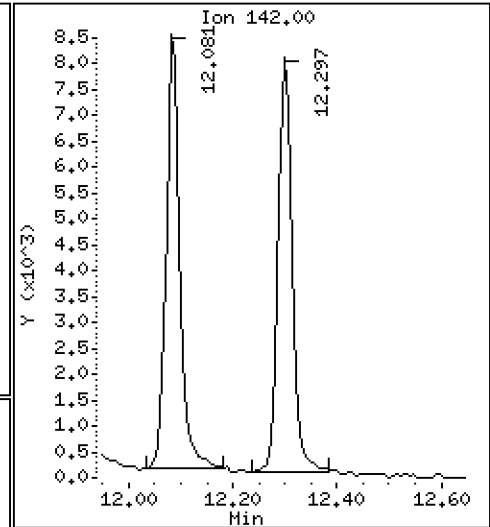
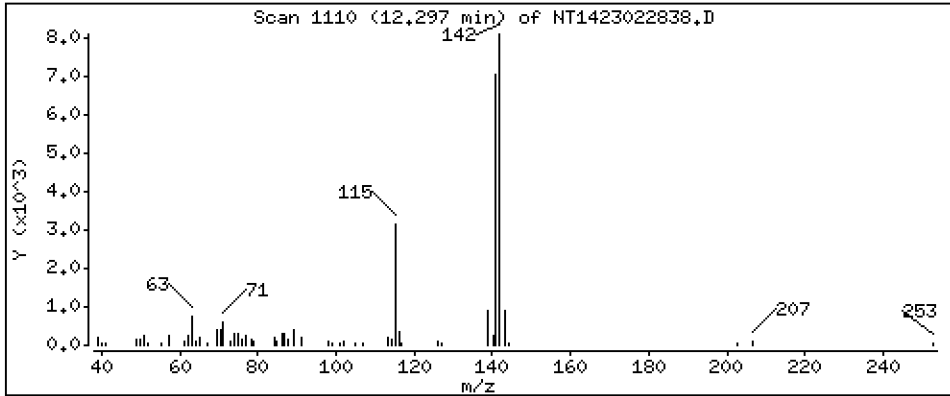
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,1946 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

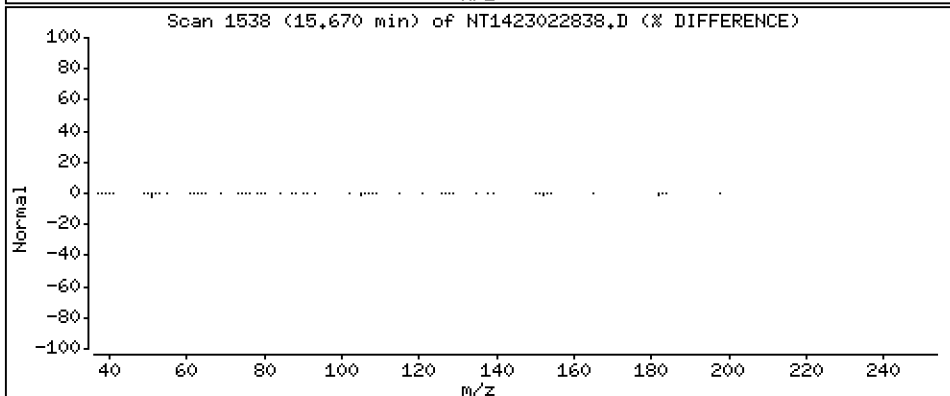
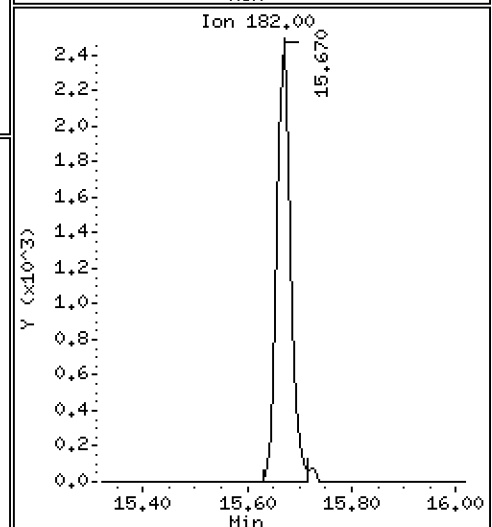
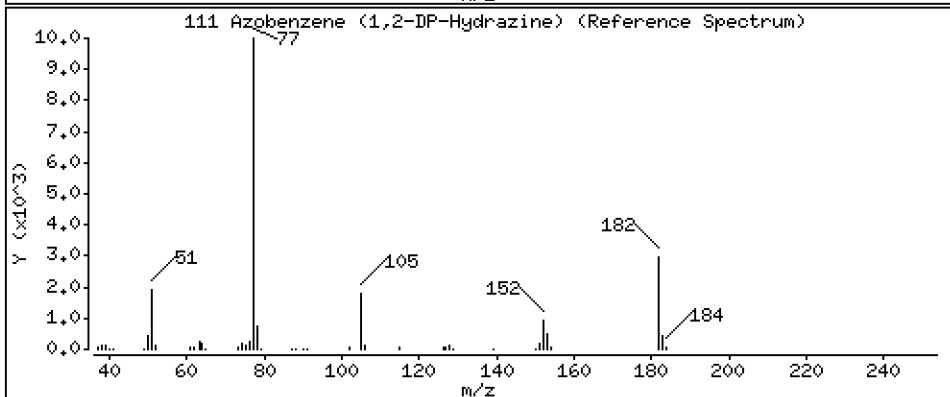
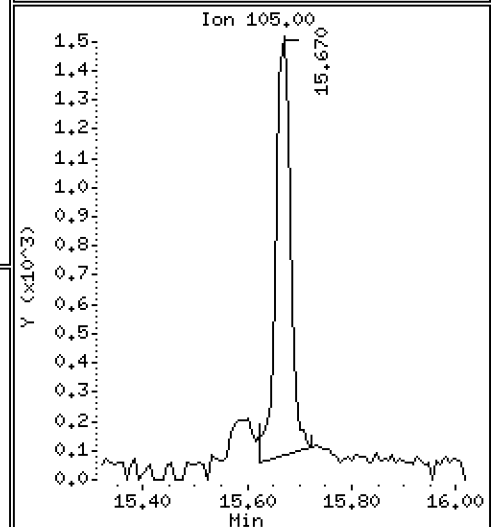
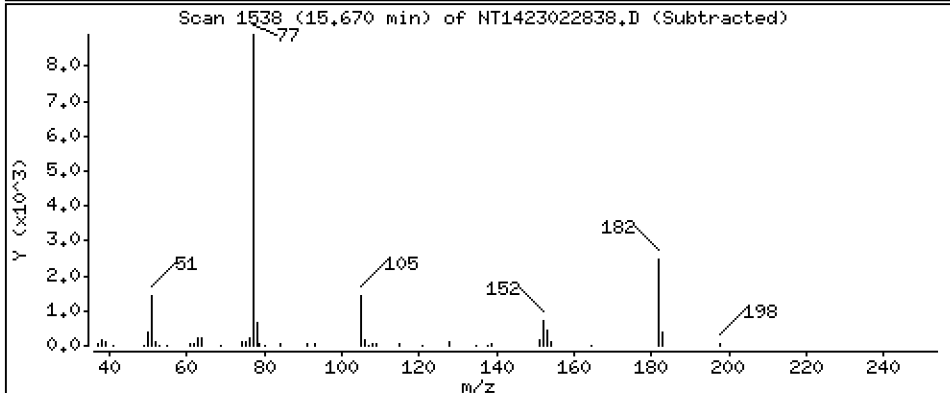
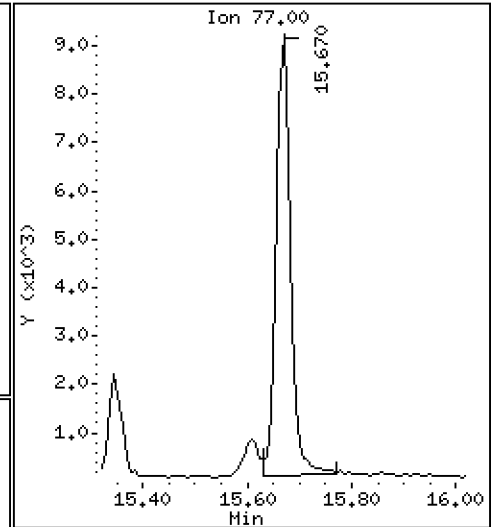
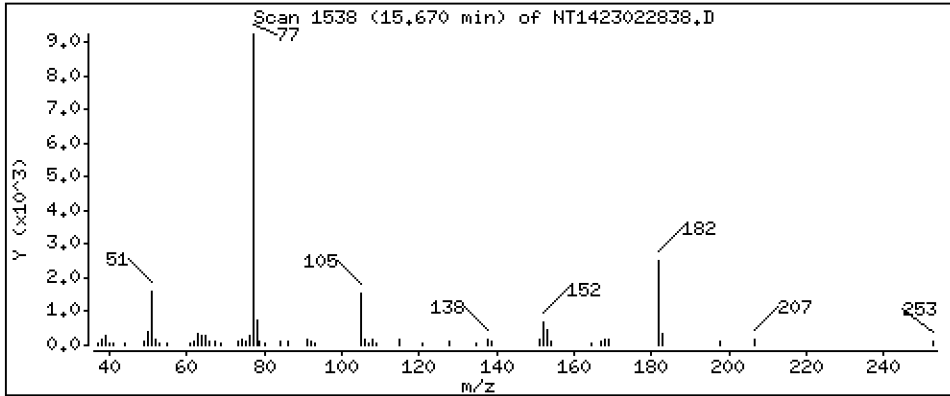
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,2134 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

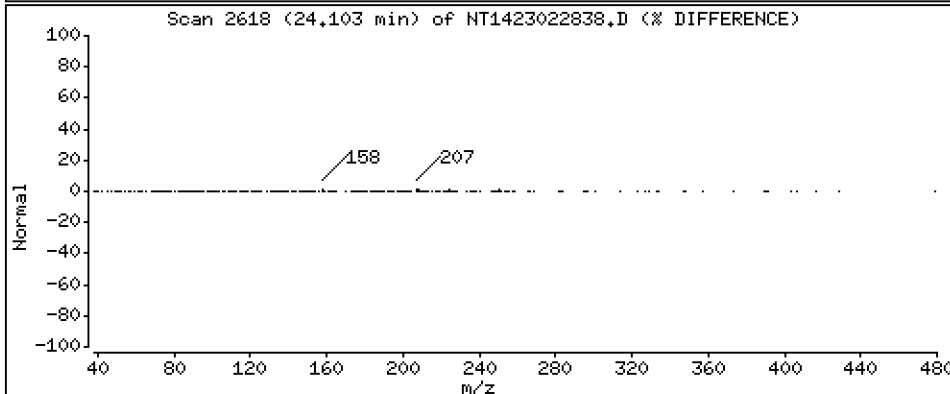
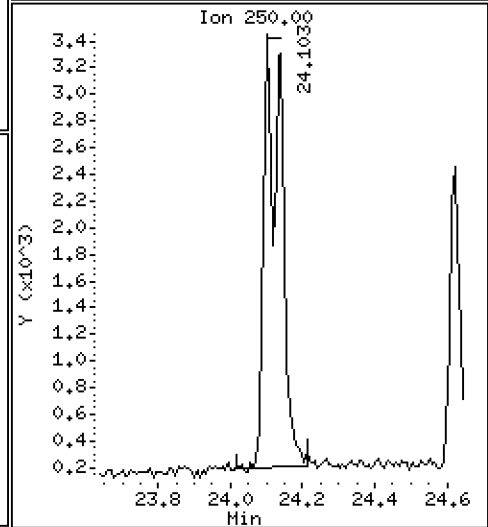
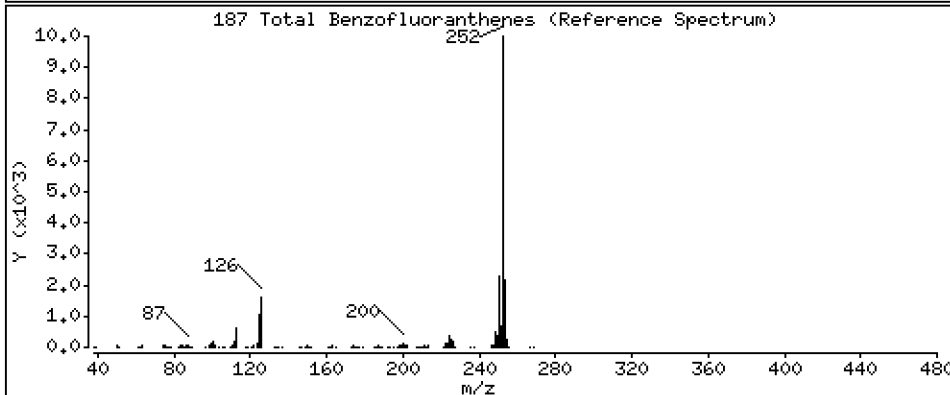
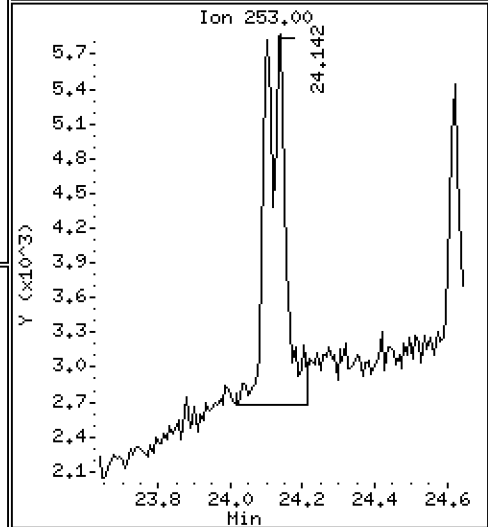
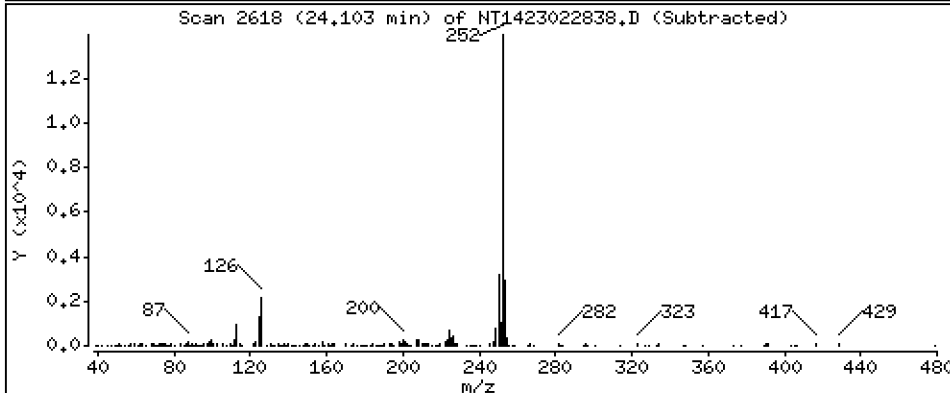
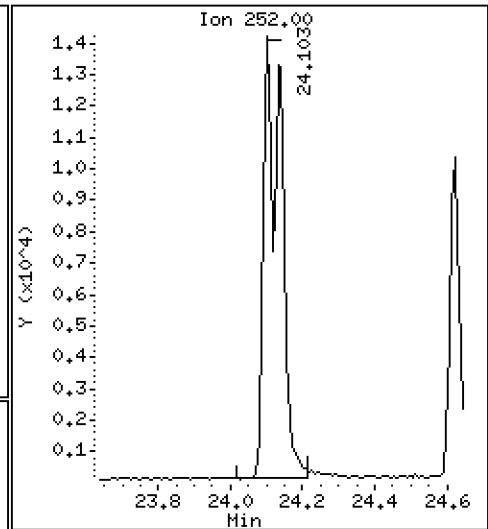
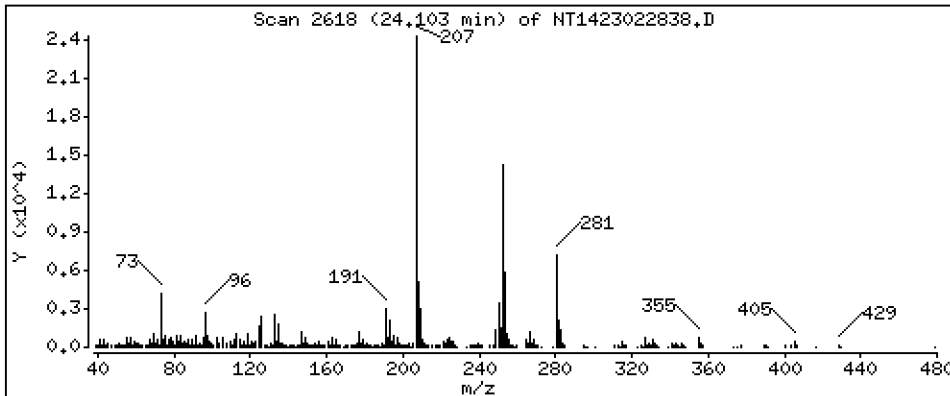
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,4714 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

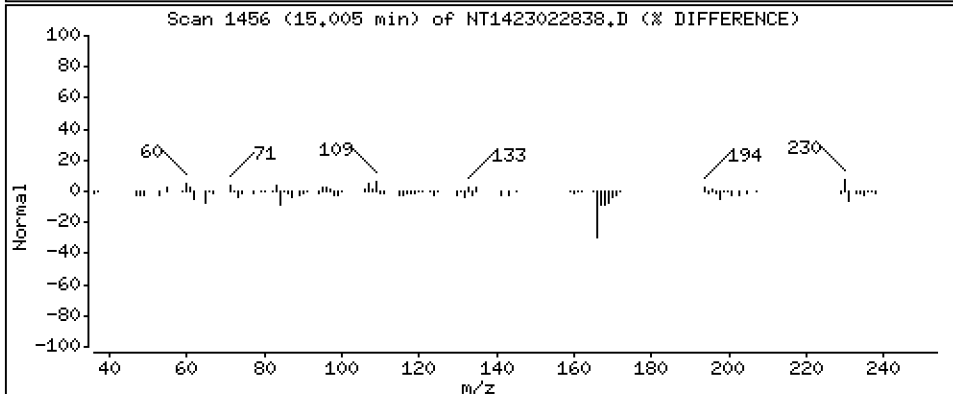
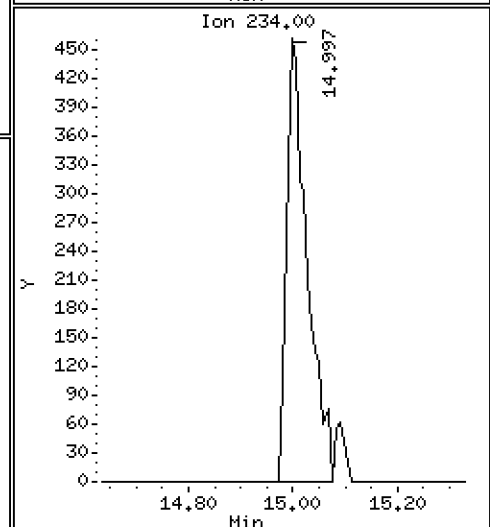
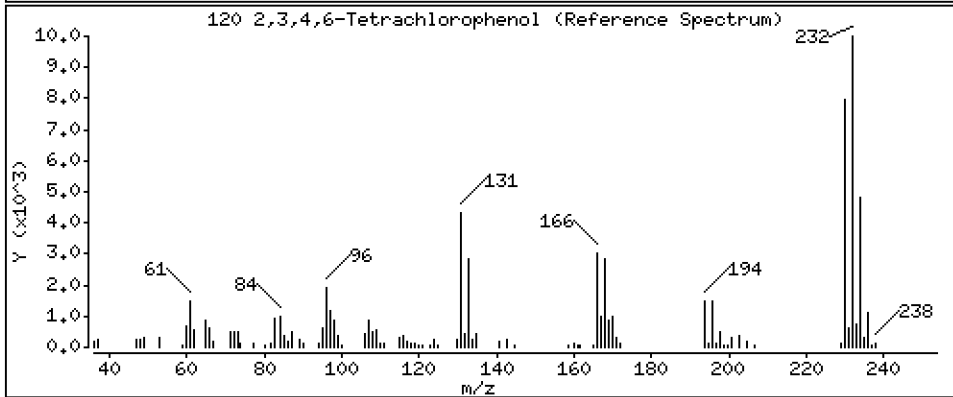
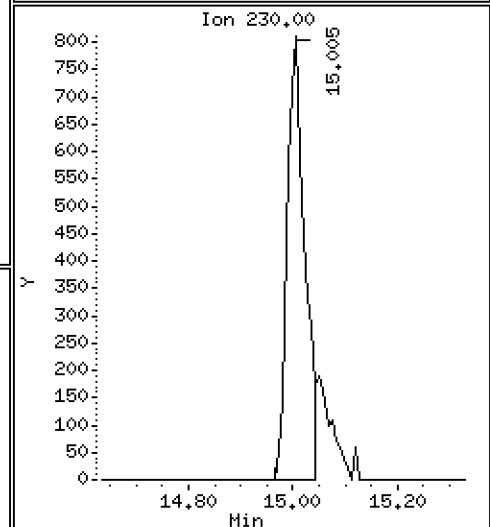
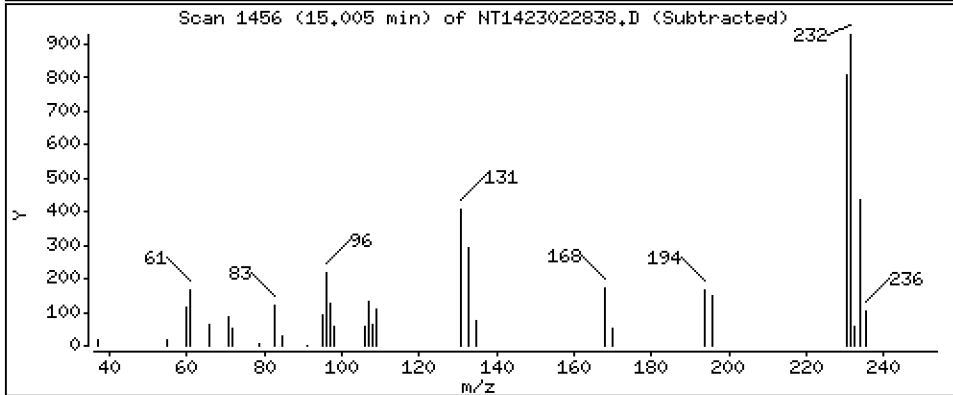
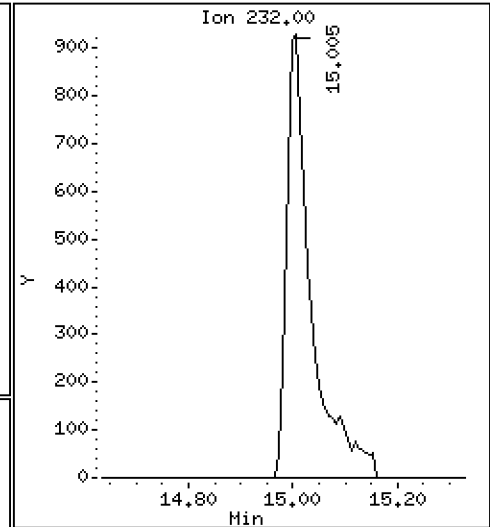
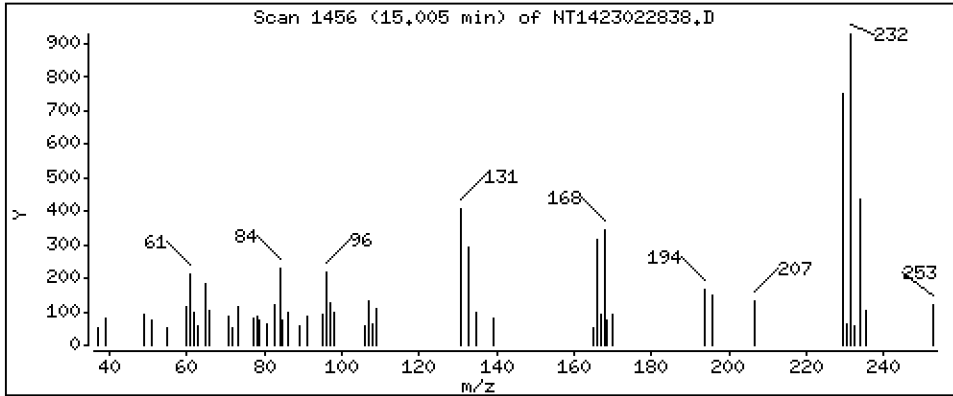
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1181 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022838.D  
 Lab Smp Id: SLB0374-LCV3  
 Inj Date : 01-MAR-2023 23:52 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-LCV3  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 14-Mar-2023 08:52 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 8  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |             |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|-------------|
|                                 |       |     |        |        |         |          | ON-COLUMN      | FINAL       |
|                                 | MASS  |     |        |        |         |          | (ug/mL)        | (ug/mL)     |
| \$ 1 2-Fluorophenol             | 112   |     | 6.073  | 6.050  | (0.741) | 9535     | 0.30742        | 0.3074 (M)  |
| \$ 2 Phenol-d5                  | 99    |     | 7.657  | 7.642  | (0.934) | 12468    | 0.28313        | 0.2831 (M)  |
| 3 Phenol                        | 94    |     | 7.680  | 7.665  | (0.937) | 12239    | 0.23294        | 0.2329 (M)  |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.858  | 7.850  | (0.958) | 10432    | 0.27860        | 0.2786      |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.781  | 7.781  | (0.949) | 8271     | 0.22291        | 0.2229      |
| 6 2-Chlorophenol                | 128   |     | 7.889  | 7.881  | (0.962) | 7013     | 0.18121        | 0.1812      |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.129  | 8.129  | (0.991) | 8928     | 0.20933        | 0.2093      |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.199  | 8.199  | (1.000) | 114387   | 4.00000        |             |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.222  | 8.230  | (1.003) | 9015     | 0.21386        | 0.2139      |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.556  | 8.548  | (1.044) | 5408     | 0.19184        | 0.1918      |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.579  | 8.571  | (1.046) | 8611     | 0.21304        | 0.2130      |
| 11 Benzyl alcohol               | 108   |     | 8.633  | 8.509  | (1.053) | 2158     | 0.09424        | 0.09424 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.796  | 8.789  | (1.073) | 2290     | 0.21008        | 0.2101      |
| 13 2-Methylphenol               | 108   |     | 8.765  | 8.750  | (1.069) | 5703     | 0.17181        | 0.1718      |
| 17 Hexachloroethane             | 117   |     | 9.153  | 9.154  | (1.116) | 2329     | 0.14712        | 0.1471      |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.053  | 9.053  | (1.104) | 5267     | 0.20840        | 0.2084      |
| 15 4-Methylphenol               | 108   |     | 9.053  | 9.022  | (1.104) | 4329     | 0.11189        | 0.1119      |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.293  | 9.285  | (0.873) | 7709     | 0.19460        | 0.1946      |
| 19 Nitrobenzene                 | 77    |     | 9.332  | 9.324  | (0.876) | 7609     | 0.19988        | 0.1999      |
| 20 Isophorone                   | 82    |     | 9.774  | 9.774  | (0.918) | 9393     | 0.15785        | 0.1578      |
| 21 2-Nitrophenol                | 139   |     | 9.960  | 9.945  | (0.935) | 3047     | 0.15467        | 0.1547 (M)  |
| 22 2,4-Dimethylphenol           | 107   |     | 10.054 | 10.046 | (0.944) | 13974    | 0.40266        | 0.4027      |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.232 | 10.224 | (0.961) | 7016     | 0.18332        | 0.1833      |
| 24 Benzoic acid                 | 105   |     | 11.360 | 10.364 | (1.067) | 1124     | 0.08173        | 0.08173 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | 10.433 | 10.410 | (0.980) | 11246    | 0.31939        | 0.3194 (M)  |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.572 | 10.572 | (0.993) | 7820     | 0.19938        | 0.1994      |
| * 27 Naphthalene-d8             | 136   |     | 10.649 | 10.649 | (1.000) | 404965   | 4.00000        |             |
| 28 Naphthalene                  | 128   |     | 10.688 | 10.688 | (1.004) | 23285    | 0.21556        | 0.2156      |
| 29 4-Chloroaniline              | 127   |     | 10.873 | 10.850 | (1.021) | 16061    | 0.34762        | 0.3476 (M)  |
| 30 Hexachlorobutadiene          | 225   |     | 11.066 | 11.066 | (1.039) | 4255     | 0.17779        | 0.1778      |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.871 | 11.848 | (1.115) | 10175    | 0.32573        | 0.3257 (M)  |
| 32 2-Methylnaphthalene          | 142   |     | 12.080 | 12.080 | (1.134) | 15399    | 0.19251        | 0.1925      |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.320 | 12.545 | (0.866) | 68       | 0.00285        | 0.002849    |



| Compounds                         | QUANT SIG |                        |        |         |          | CONCENTRATIONS       |                  |  |
|-----------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|--|
|                                   | MASS      | RT                     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |  |
| 34 2,4,6-Trichlorophenol          | 196       | 12.730                 | 12.723 | (0.895) | 7025     | 0.31610              | 0.3161           |  |
| 35 2,4,5-Trichlorophenol          | 196       | 12.831                 | 12.800 | (0.902) | 8318     | 0.34616              | 0.3462 (M)       |  |
| § 36 2-Fluorobiphenyl             | 172       | 12.877                 | 12.877 | (0.905) | 18353    | 0.20726              | 0.2073           |  |
| 37 2-Chloronaphthalene            | 162       | 13.063                 | 13.063 | (0.918) | 13983    | 0.19699              | 0.1970           |  |
| 38 2-Nitroaniline                 | 65        | 13.373                 | 13.349 | (0.940) | 6124     | 0.33079              | 0.3308           |  |
| 39 Dimethylphthalate              | 163       | 13.798                 | 13.798 | (0.970) | 14994    | 0.20953              | 0.2095           |  |
| 40 Acenaphthylene                 | 152       | 13.922                 | 13.922 | (0.978) | 22974    | 0.22057              | 0.2206           |  |
| 41 2,6-Dinitrotoluene             | 165       | 13.930                 | 13.930 | (0.979) | 6086     | 0.36293              | 0.3629           |  |
| * 42 Acenaphthene-d10             | 164       | 14.232                 | 14.239 | (1.000) | 227510   | 4.00000              |                  |  |
| 43 3-Nitroaniline                 | 138       | 14.247                 | 14.208 | (1.001) | 5035     | 0.29295              | 0.2929 (M)       |  |
| 44 Acenaphthene                   | 153       | 14.301                 | 14.301 | (1.005) | 14164    | 0.21239              | 0.2124           |  |
| 45 2,4-Dinitrophenol              | 184       | Compound Not Detected. |        |         |          |                      |                  |  |
| 46 Dibenzofuran                   | 168       | 14.634                 | 14.634 | (1.028) | 21018    | 0.19807              | 0.1981           |  |
| 47 4-Nitrophenol                  | 109       | 14.842                 | 14.587 | (1.043) | 1763     | 0.20771              | 0.2077 (M)       |  |
| 48 2,4-Dinitrotoluene             | 165       | 14.734                 | 14.726 | (1.035) | 6423     | 0.26606              | 0.2661           |  |
| 50 Diethylphthalate               | 149       | 15.244                 | 15.252 | (1.071) | 14200    | 0.21220              | 0.2122           |  |
| 49 Fluorene                       | 166       | 15.337                 | 15.337 | (1.078) | 19025    | 0.21279              | 0.2128           |  |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.345                 | 15.345 | (1.078) | 9356     | 0.19668              | 0.1967           |  |
| 52 4-Nitroaniline                 | 138       | 15.530                 | 15.469 | (1.091) | 4597     | 0.26982              | 0.2698 (M)       |  |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.577                 | 15.553 | (0.903) | 1931     | 0.13939              | 0.1394 (M)       |  |
| 54 N-Nitrosodiphenylamine         | 169       | 15.607                 | 15.607 | (0.905) | 11037    | 0.21070              | 0.2107           |  |
| § 55 2,4,6-Tribromophenol         | 330       | 15.877                 | 15.870 | (1.116) | 2484     | 0.20332              | 0.2033 (M)       |  |
| 56 4-Bromophenyl-phenylether      | 248       | 16.340                 | 16.340 | (0.948) | 4483     | 0.19467              | 0.1947           |  |
| 57 Hexachlorobenzene              | 284       | 16.626                 | 16.634 | (0.964) | 5394     | 0.21304              | 0.2130           |  |
| 58 Pentachlorophenol              | 266       | 17.044                 | 17.005 | (0.988) | 1337     | 0.11229              | 0.1123 (M)       |  |
| * 59 Phenanthrene-d10             | 188       | 17.245                 | 17.245 | (1.000) | 416834   | 4.00000              |                  |  |
| 60 Phenanthrene                   | 178       | 17.291                 | 17.291 | (1.003) | 22224    | 0.20042              | 0.2004           |  |
| 61 Anthracene                     | 178       | 17.384                 | 17.384 | (1.008) | 21080    | 0.20109              | 0.2011           |  |
| 62 Carbazole                      | 167       | 17.748                 | 17.732 | (1.029) | 16859    | 0.18350              | 0.1835           |  |
| 63 Di-n-butylphthalate            | 149       | 18.591                 | 18.591 | (1.078) | 21721    | 0.18302              | 0.1830           |  |
| 64 Fluoranthene                   | 202       | 19.713                 | 19.713 | (0.882) | 23739    | 0.18367              | 0.1837           |  |
| 65 Pyrene                         | 202       | 20.139                 | 20.139 | (0.901) | 25001    | 0.18347              | 0.1835           |  |
| § 66 Terphenyl-d14                | 244       | 20.471                 | 20.471 | (0.916) | 18974    | 0.18084              | 0.1808           |  |
| 67 Butylbenzylphthalate           | 149       | 21.439                 | 21.439 | (0.959) | 9570     | 0.19839              | 0.1984           |  |
| 68 Benzo(a)anthracene             | 228       | 22.337                 | 22.337 | (0.999) | 25252    | 0.22128              | 0.2213           |  |
| * 69 Chrysene-d12                 | 240       | 22.361                 | 22.368 | (1.000) | 340670   | 4.00000              |                  |  |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.330                 | 22.330 | (0.999) | 23445    | 0.71941              | 0.7194           |  |
| 71 Chrysene                       | 228       | 22.407                 | 22.415 | (1.002) | 23584    | 0.21501              | 0.2150           |  |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.492                 | 22.492 | (0.958) | 13105    | 0.17691              | 0.1769           |  |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.468                 | 23.476 | (1.000) | 485089   | 4.00000              |                  |  |
| 73 Di-n-octylphthalate            | 149       | 23.483                 | 23.483 | (1.001) | 25909    | 0.20285              | 0.2029           |  |
| 74 Benzo(b)fluoranthene           | 252       | 24.103                 | 24.103 | (0.976) | 23233    | 0.22278              | 0.2228           |  |
| 75 Benzo(k)fluoranthene           | 252       | 24.134                 | 24.141 | (0.977) | 27728    | 0.24645              | 0.2464           |  |
| 76 Benzo(a)pyrene                 | 252       | 24.621                 | 24.621 | (0.997) | 19040    | 0.21280              | 0.2128           |  |
| * 77 Perylene-d12                 | 264       | 24.707                 | 24.714 | (1.000) | 315652   | 4.00000              |                  |  |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.808                 | 26.784 | (1.085) | 10163    | 0.09023              | 0.09023          |  |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.823                 | 26.800 | (1.086) | 9425     | 0.09853              | 0.09853          |  |
| 80 Benzo(g,h,i)perylene           | 276       | 27.406                 | 27.383 | (1.109) | 7014     | 0.07140              | 0.07140          |  |
| 90 N-Nitrosodimethylamine         | 74        | 4.004                  | 3.988  | (0.488) | 4536     | 0.19252              | 0.1925           |  |
| 91 Aniline                        | 93        | 7.688                  | 7.681  | (0.938) | 16293    | 0.29998              | 0.3000           |  |
| 93 Benzidine                      | 184       | 20.030                 | 19.992 | (0.896) | 15043    | 0.27208              | 0.2721 (M)       |  |
| 103 Pyridine                      | 79        | 4.089                  | 3.988  | (0.499) | 7869     | 0.11320              | 0.1132 (M)       |  |
| 105 1-methylnaphthalene           | 142       | 12.297                 | 12.297 | (1.155) | 14333    | 0.19463              | 0.1946           |  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.669                 | 15.669 | (1.101) | 16398    | 0.21345              | 0.2134           |  |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 24.103 | 24.141 | (0.976) | 48086    | 0.47135              | 0.4714           |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 15.005 | 14.981 | (1.054) | 3021     | 0.11806              | 0.1181 (M)       |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023  
 Lab File ID: NT1423022838.D Calibration Time: 22:40  
 Lab Smp Id: SLB0374-LCV3  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 115350   | 57675      | 230700  | 114387 | -0.83  |
| 27 Naphthalene-d8     | 415895   | 207948     | 831790  | 404965 | -2.63  |
| 42 Acenaphthene-d10   | 246020   | 123010     | 492040  | 227510 | -7.52  |
| 59 Phenanthrene-d10   | 448598   | 224299     | 897196  | 416834 | -7.08  |
| 69 Chrysene-d12       | 373978   | 186989     | 747956  | 340670 | -8.91  |
| 134 Di-n-octylphthala | 541572   | 270786     | 1083144 | 485089 | -10.43 |
| 77 Perylene-d12       | 357819   | 178910     | 715638  | 315652 | -11.78 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.20     | 7.70     | 8.70  | 8.20   | -0.00 |
| 27 Naphthalene-d8     | 10.65    | 10.15    | 11.15 | 10.65  | -0.00 |
| 42 Acenaphthene-d10   | 14.24    | 13.74    | 14.74 | 14.23  | -0.05 |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.25  | -0.00 |
| 69 Chrysene-d12       | 22.37    | 21.87    | 22.87 | 22.36  | -0.03 |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.47  | -0.03 |
| 77 Perylene-d12       | 24.71    | 24.21    | 25.21 | 24.71  | -0.03 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022838.D

Lab ID: SLB0374-LCV3  
nt14.i, ABN.m, 01-MAR-2023 23:52

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND                  |
|-------|---------|---------|---------------------------|
| 1.053 | 1.038   | 0.0151  | Benzyl alcohol            |
| 1.067 | 0.973   | 0.0936  | Benzoic acid              |
| 0.866 | 0.881   | -0.0153 | Hexachlorocyclopentadiene |
| 1.043 | 1.024   | 0.0185  | 4-Nitrophenol             |
| 0.499 | 0.486   | 0.0122  | Pyridine                  |

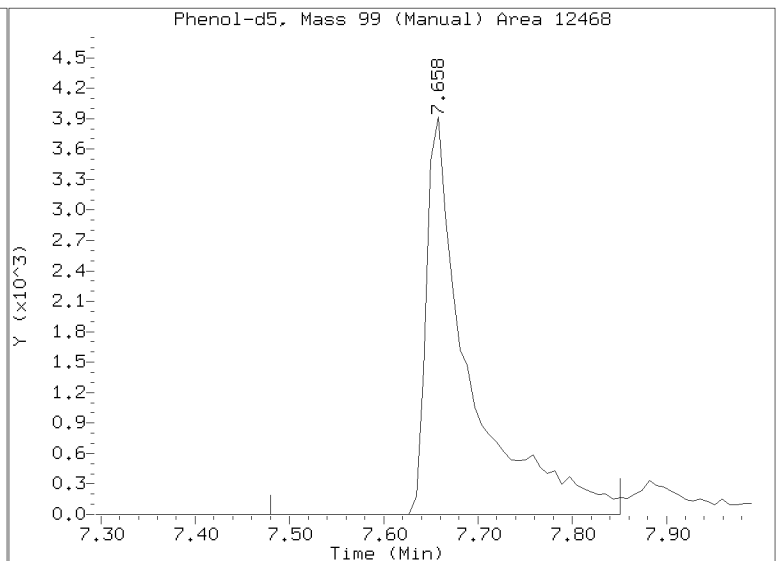
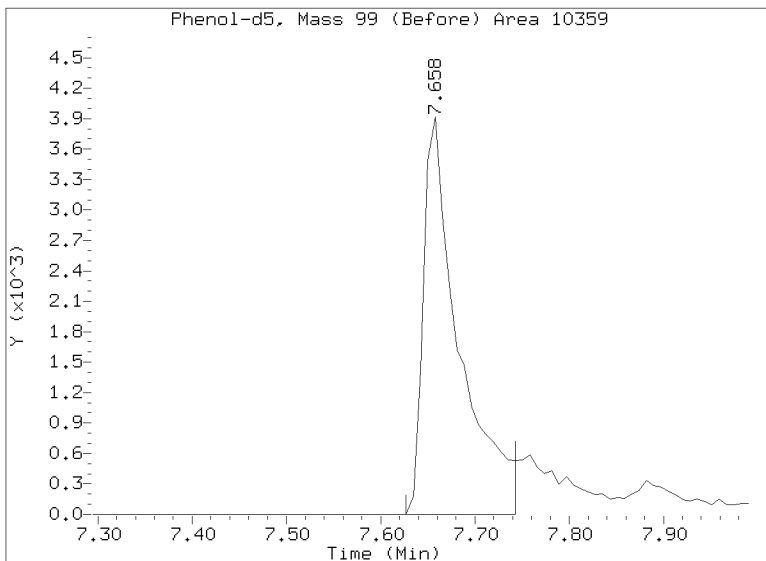
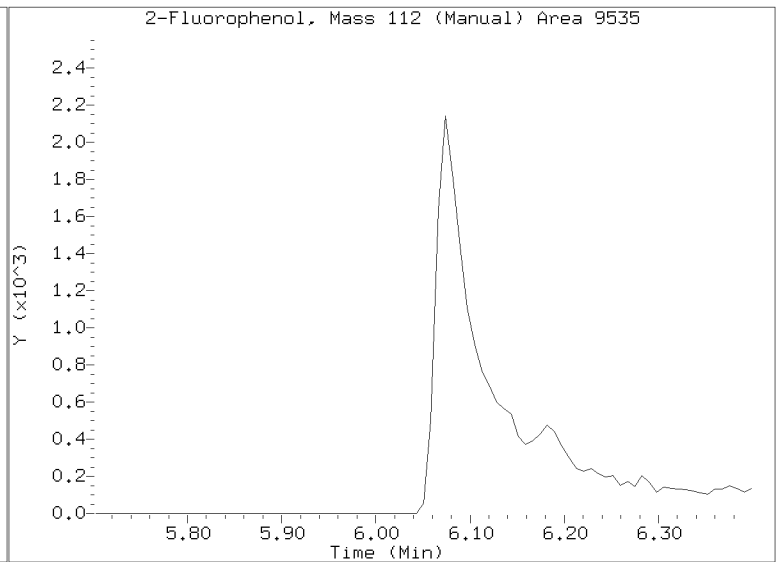
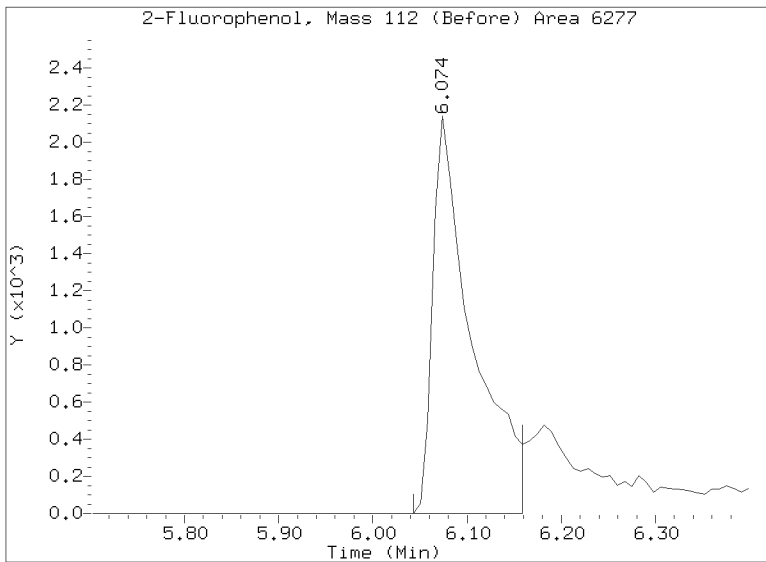
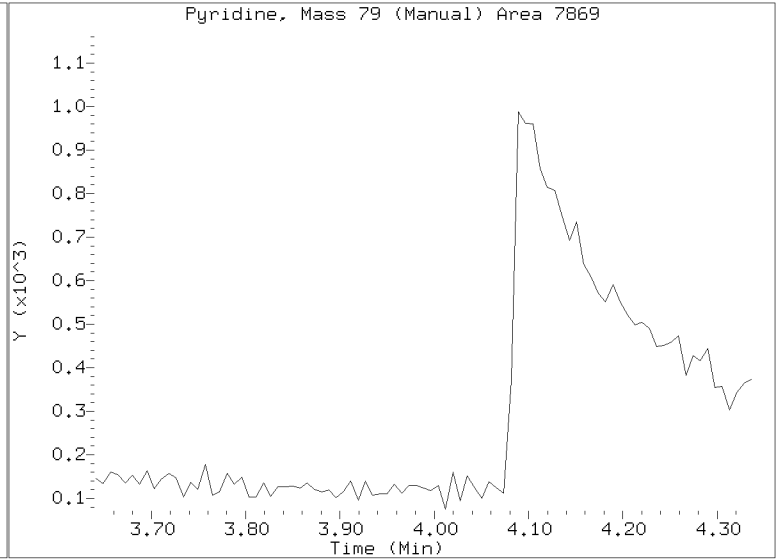
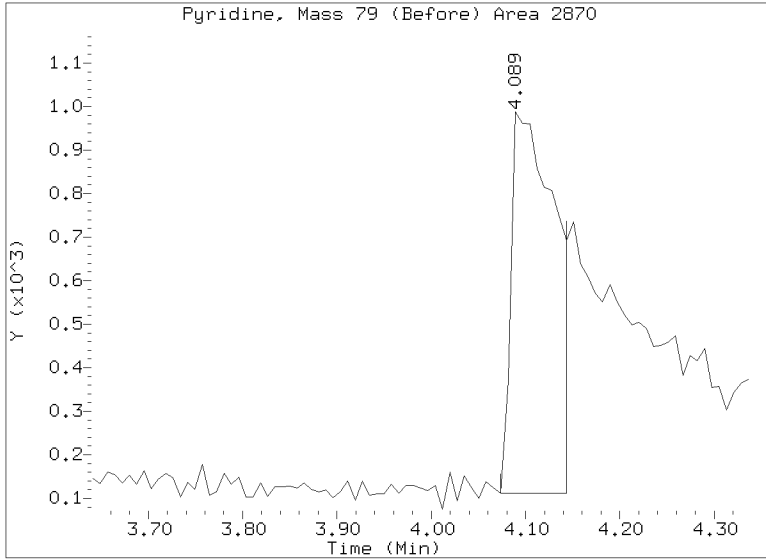
RRT check based on Ccal File: NT1423022836.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

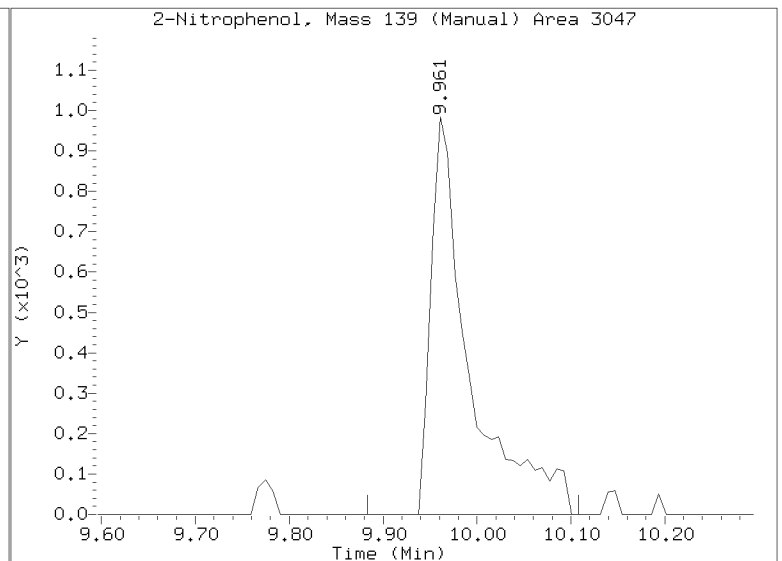
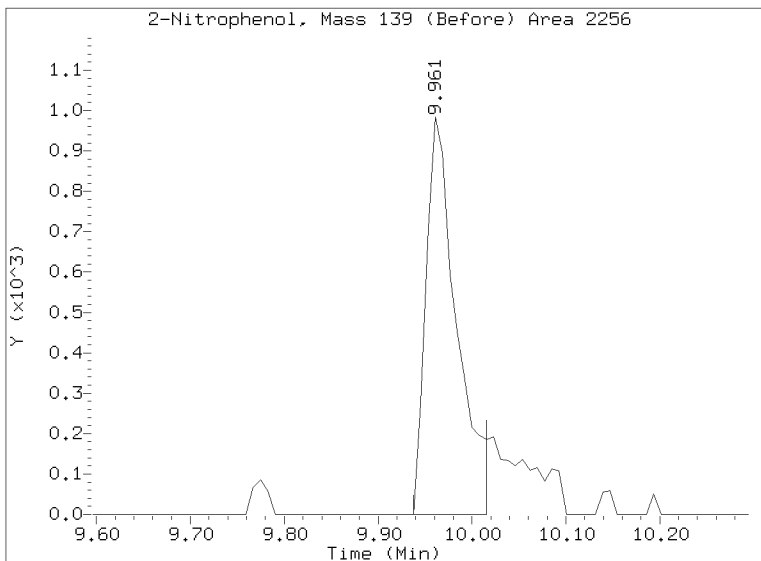
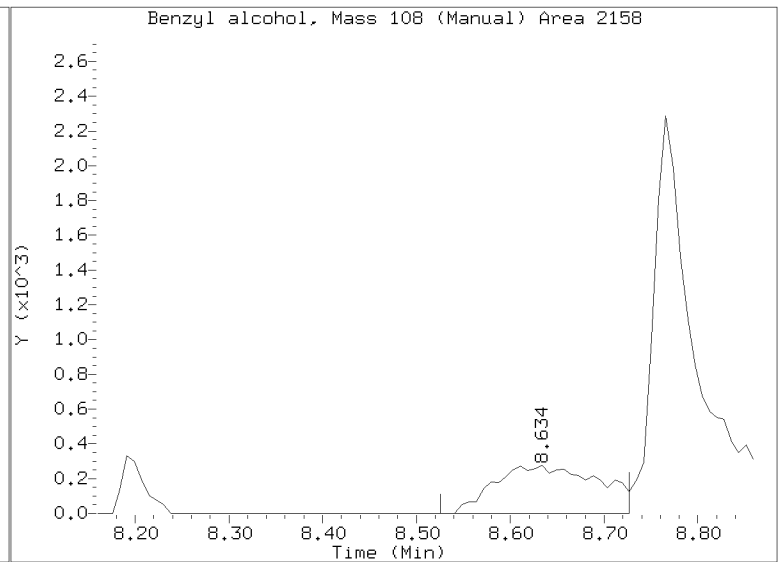
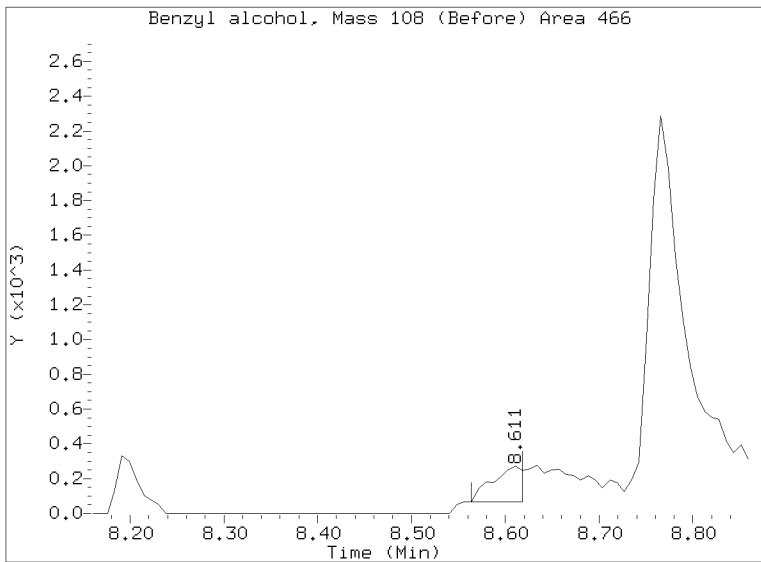
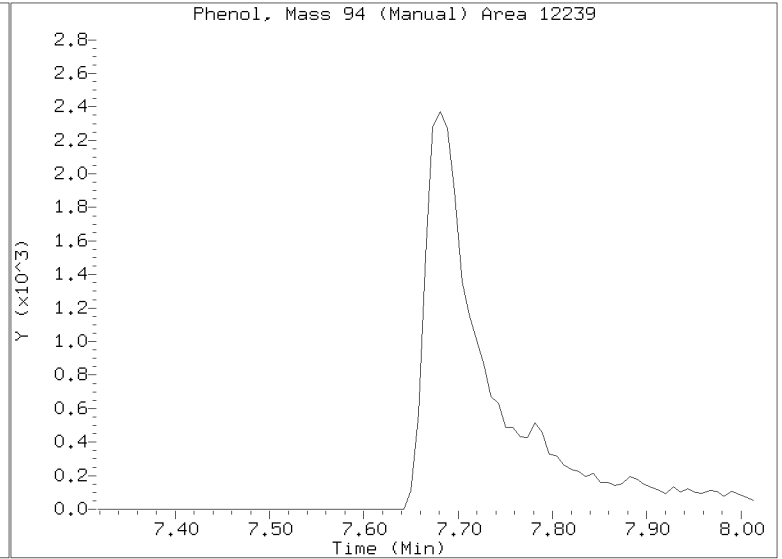
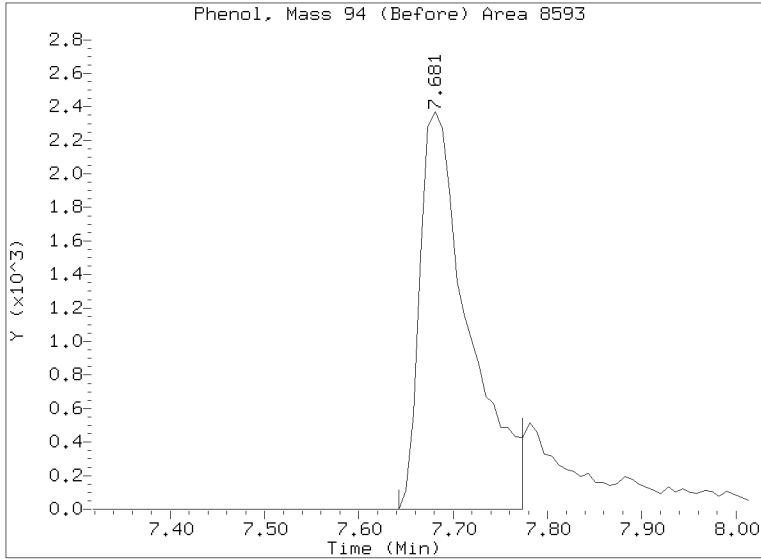
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022838.D  
Injection Date: 01-MAR-2023 23:52  
Lab ID:SLB0374-LCV3 Client ID:  
Report Date: 03/14/2023 08:52



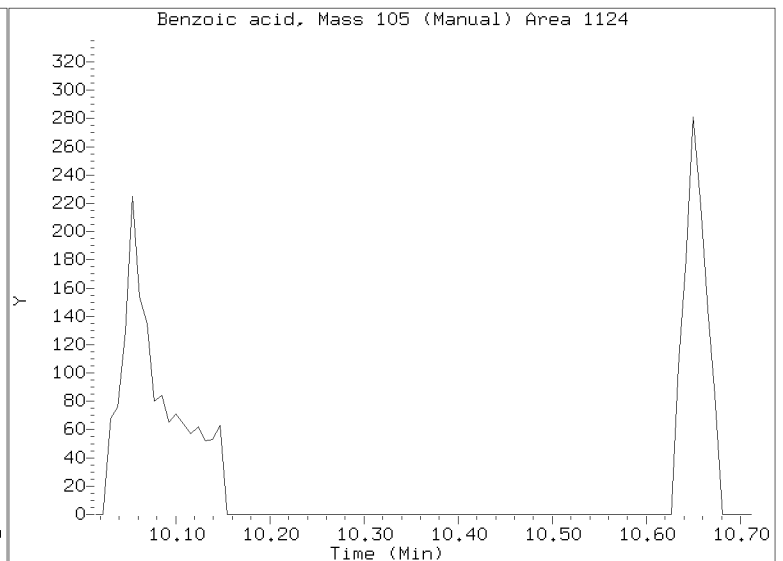
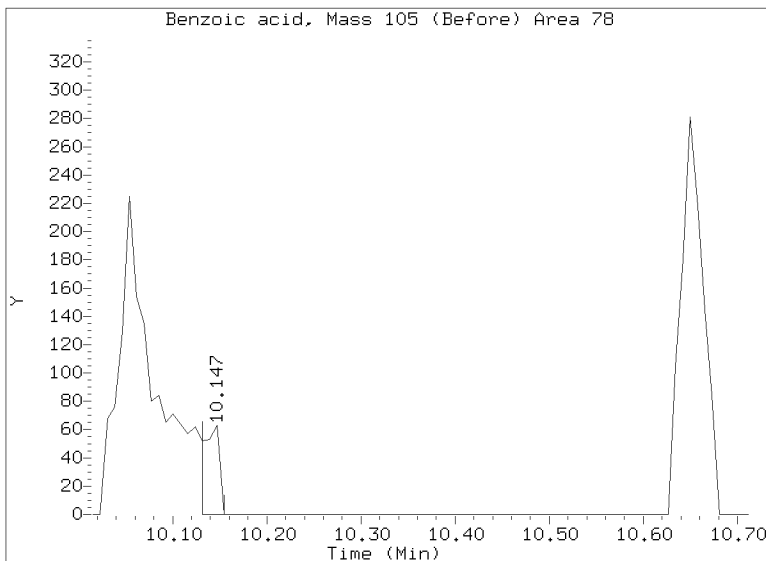
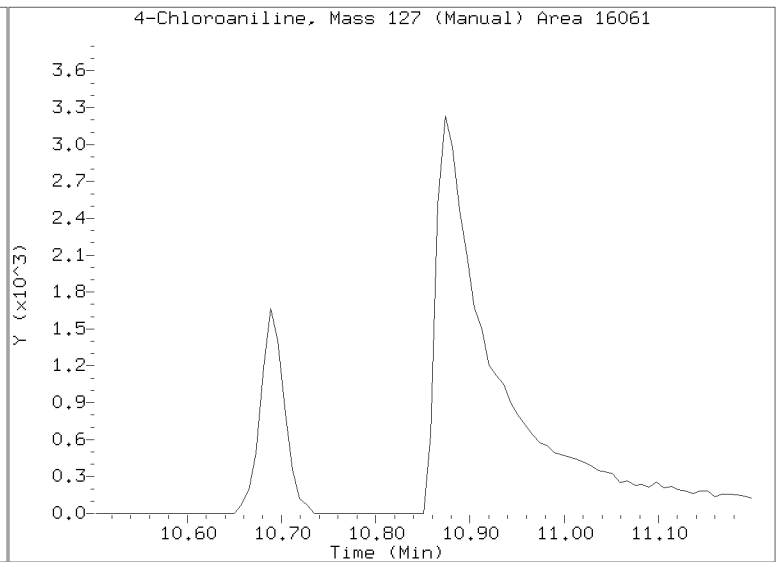
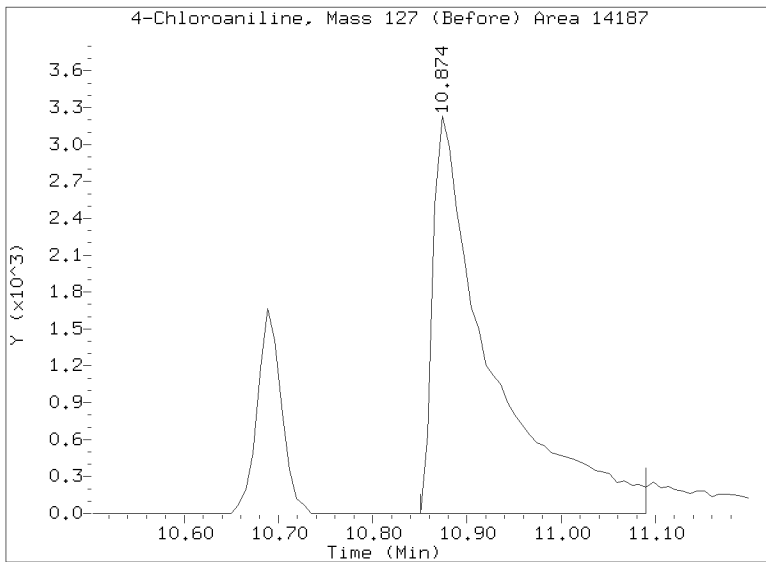
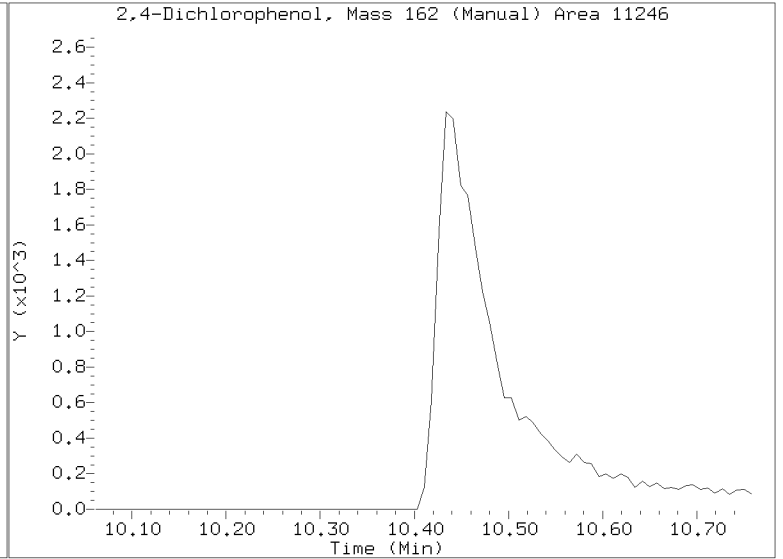
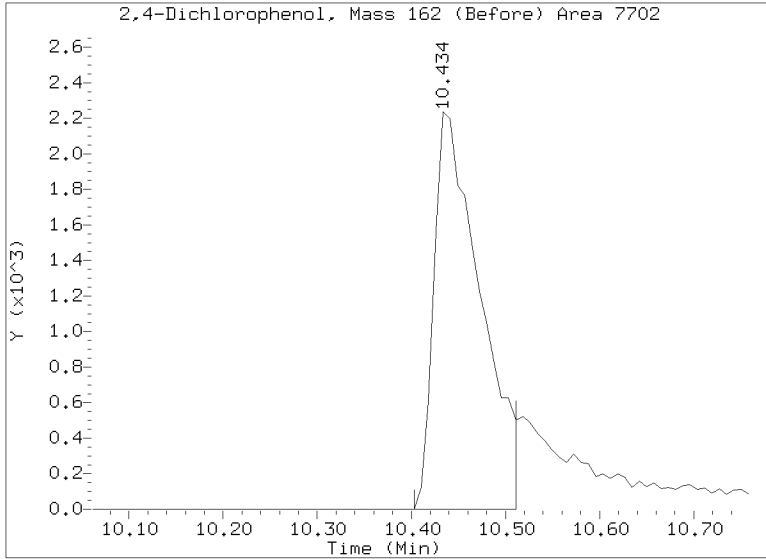
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022838.D  
Injection Date: 01-MAR-2023 23:52  
Lab ID:SLB0374-LCV3 Client ID:  
Report Date: 03/14/2023 08:52



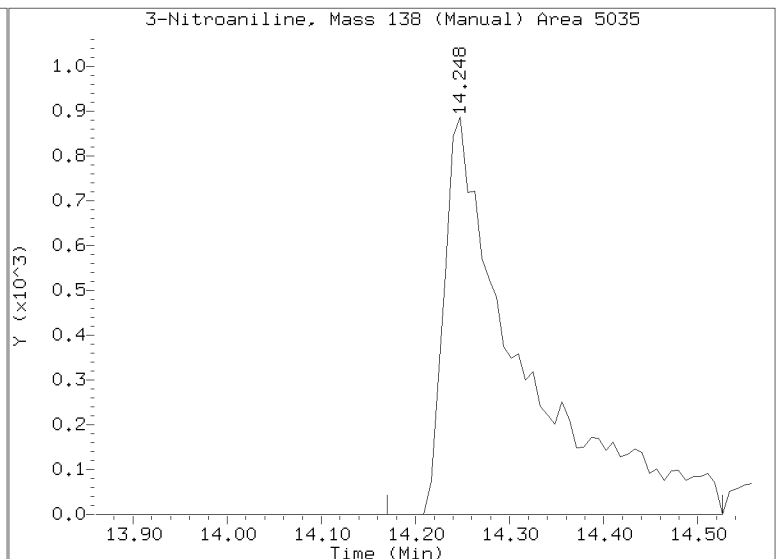
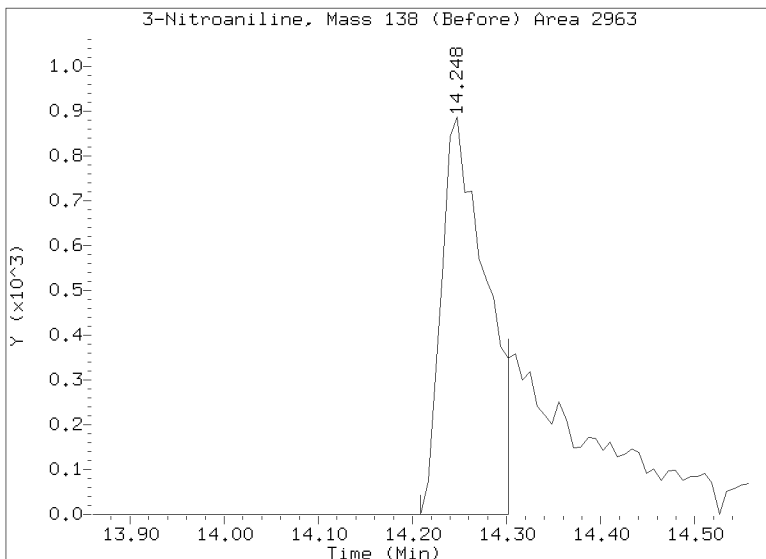
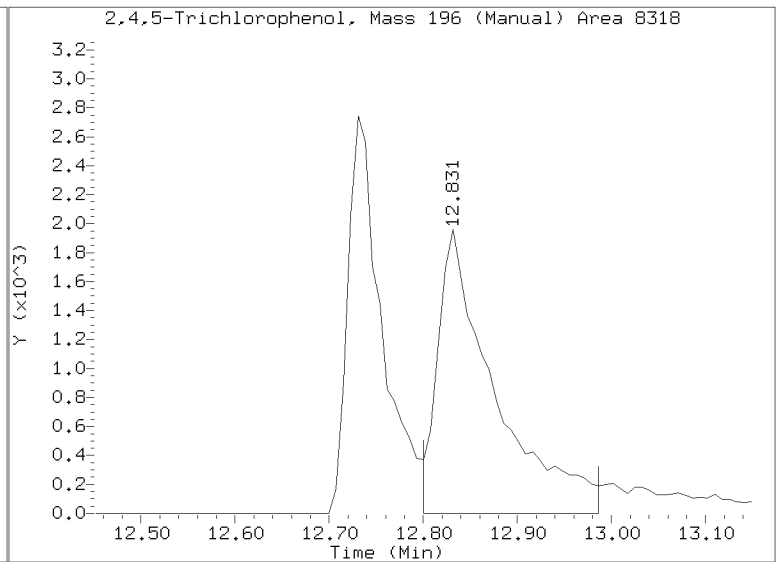
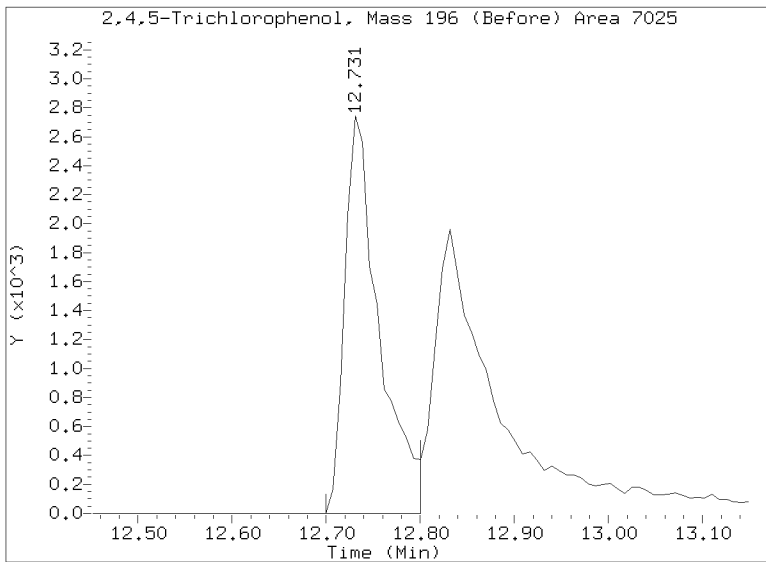
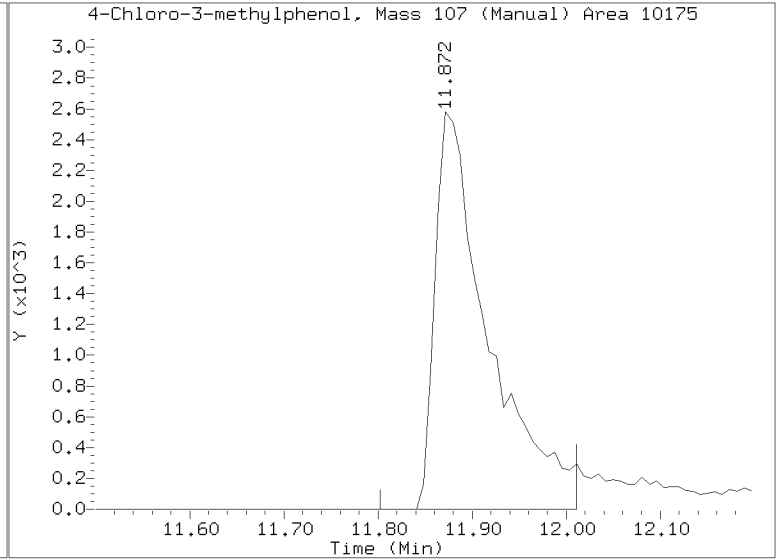
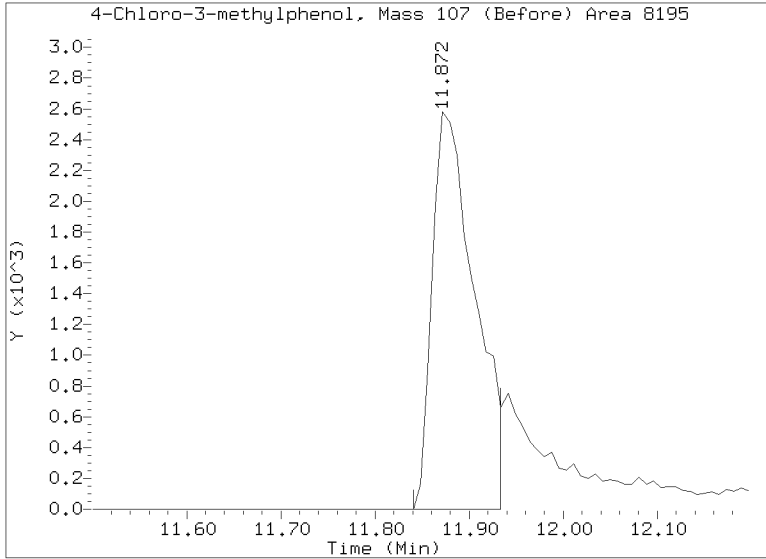
# Quant Ion Manual Peak Adjustment Report

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Injection Date: 01-MAR-2023 23:52  
Lab ID:SLB0374-LCV3 Client ID:  
Report Date: 03/14/2023 08:52



# Quant Ion Manual Peak Adjustment Report

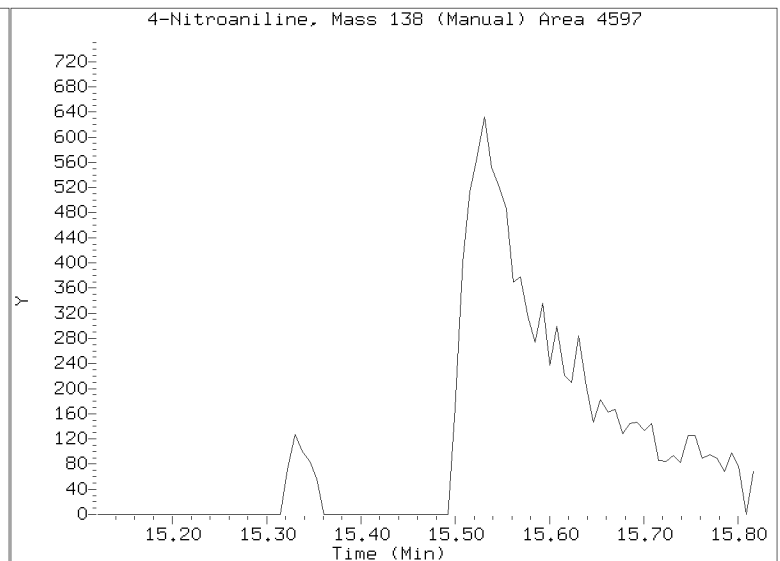
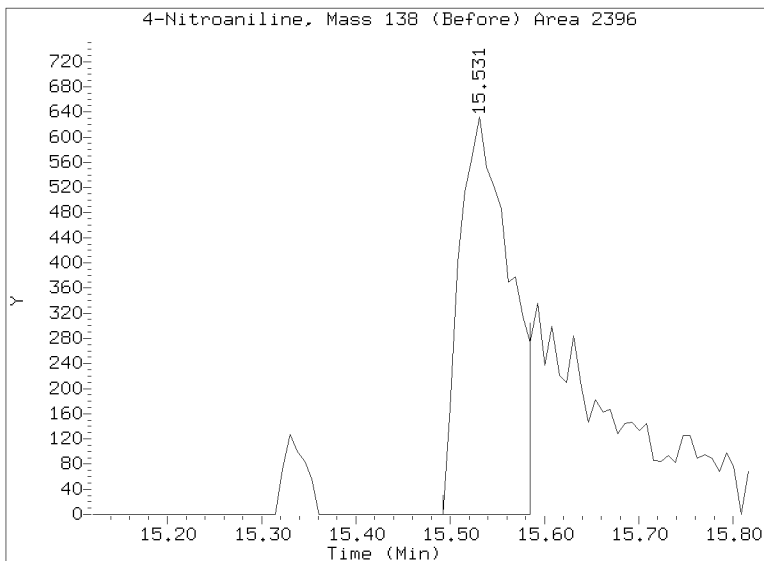
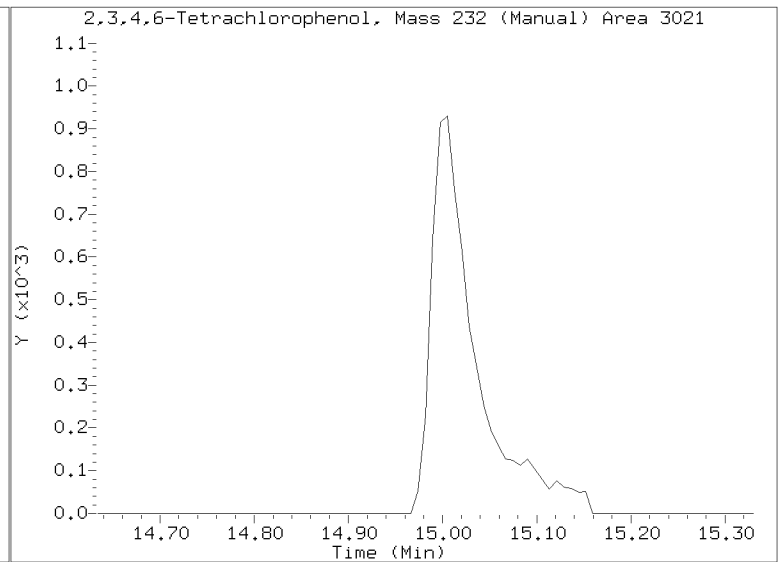
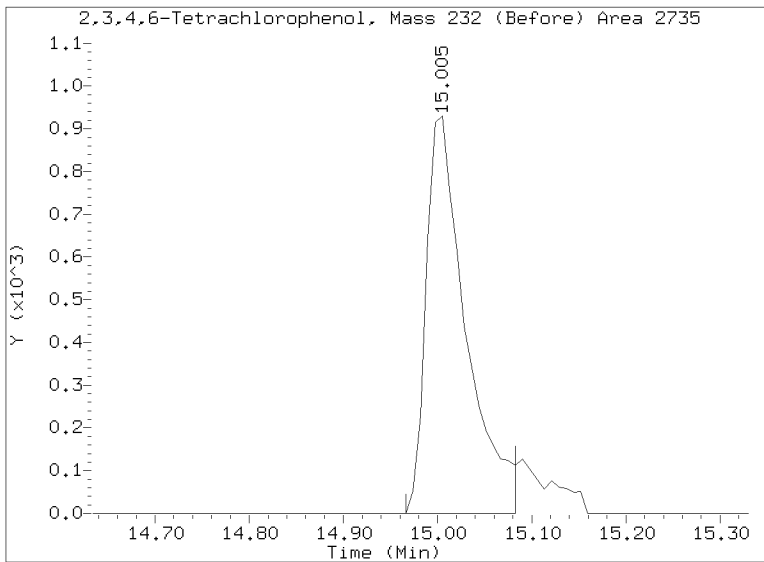
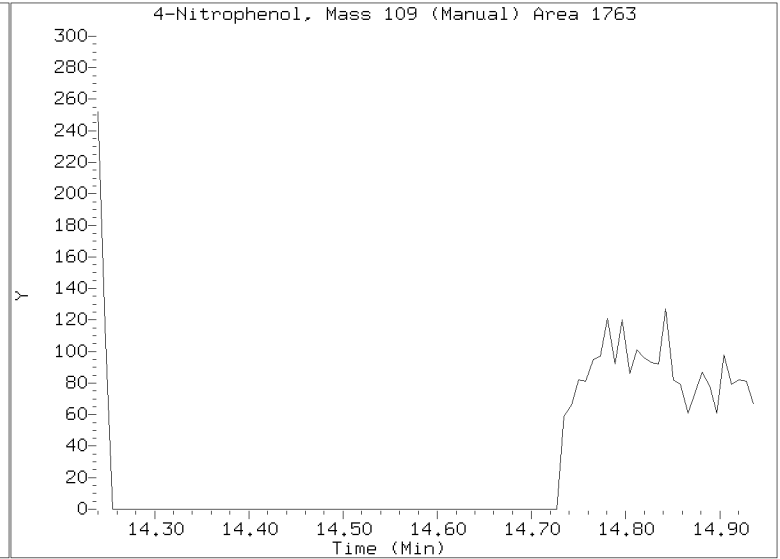
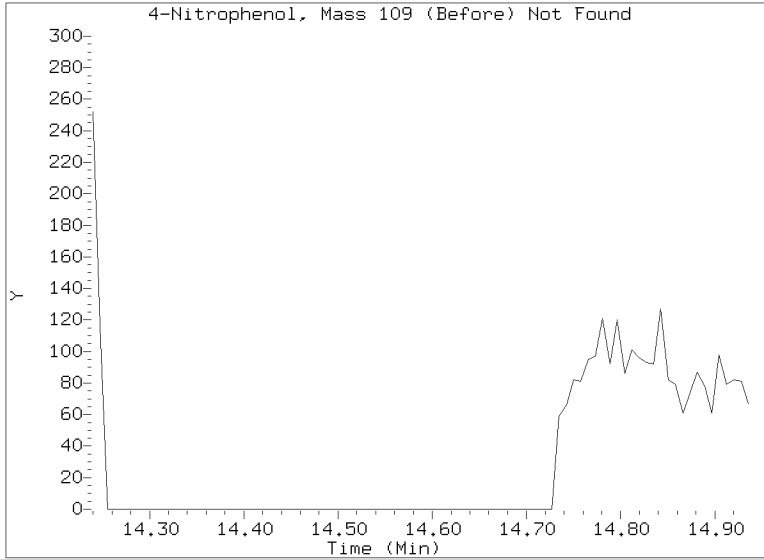
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Lab ID:SLB0374-LCV3 Client ID:  
Report Date: 03/14/2023 08:52





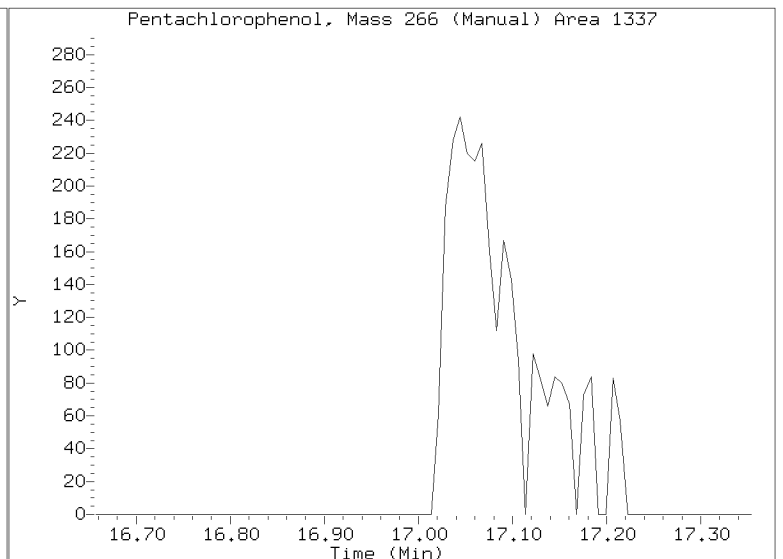
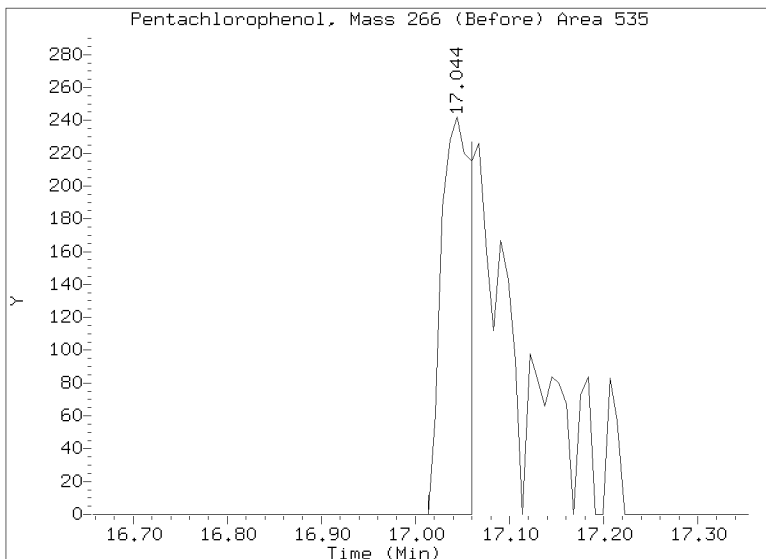
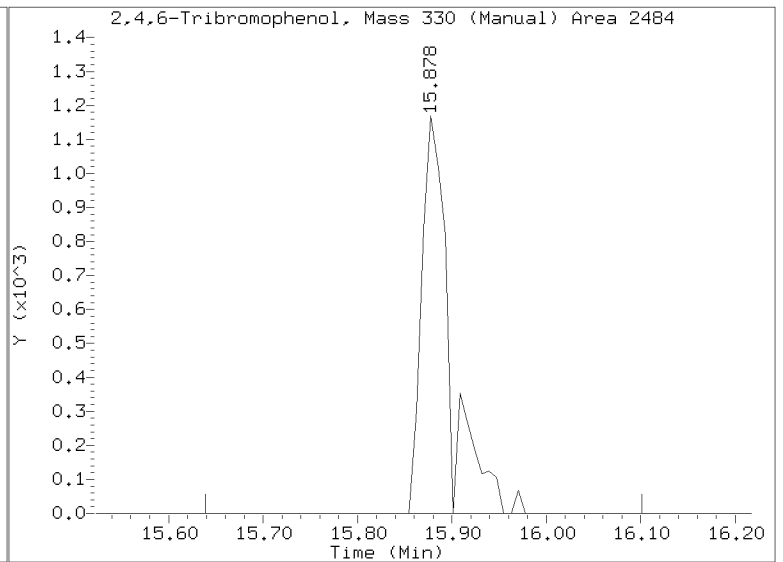
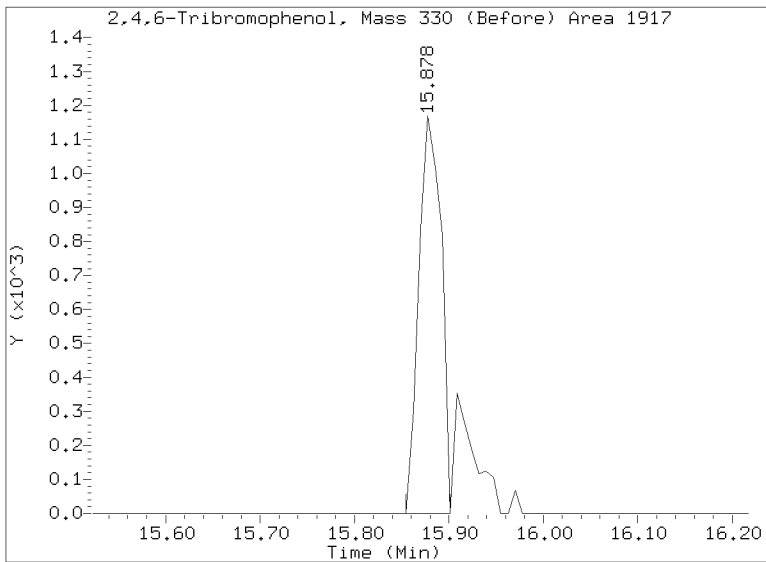
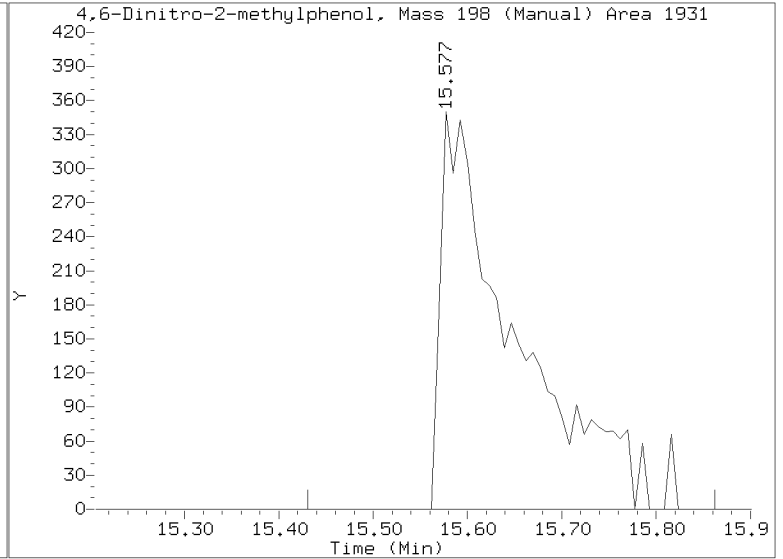
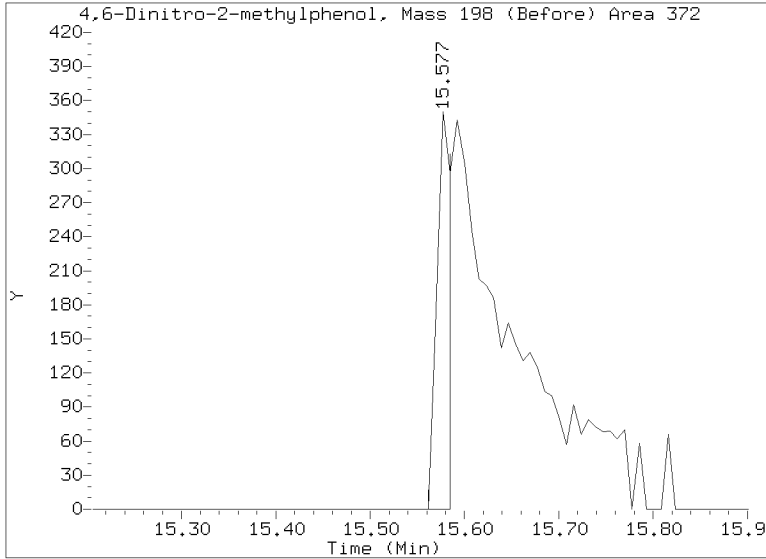
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022838.D  
Injection Date: 01-MAR-2023 23:52  
Lab ID:SLB0374-LCV3 Client ID:  
Report Date: 03/14/2023 08:52



# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022838.D  
Injection Date: 01-MAR-2023 23:52  
Lab ID:SLB0374-LCV3 Client ID:  
Report Date: 03/14/2023 08:52



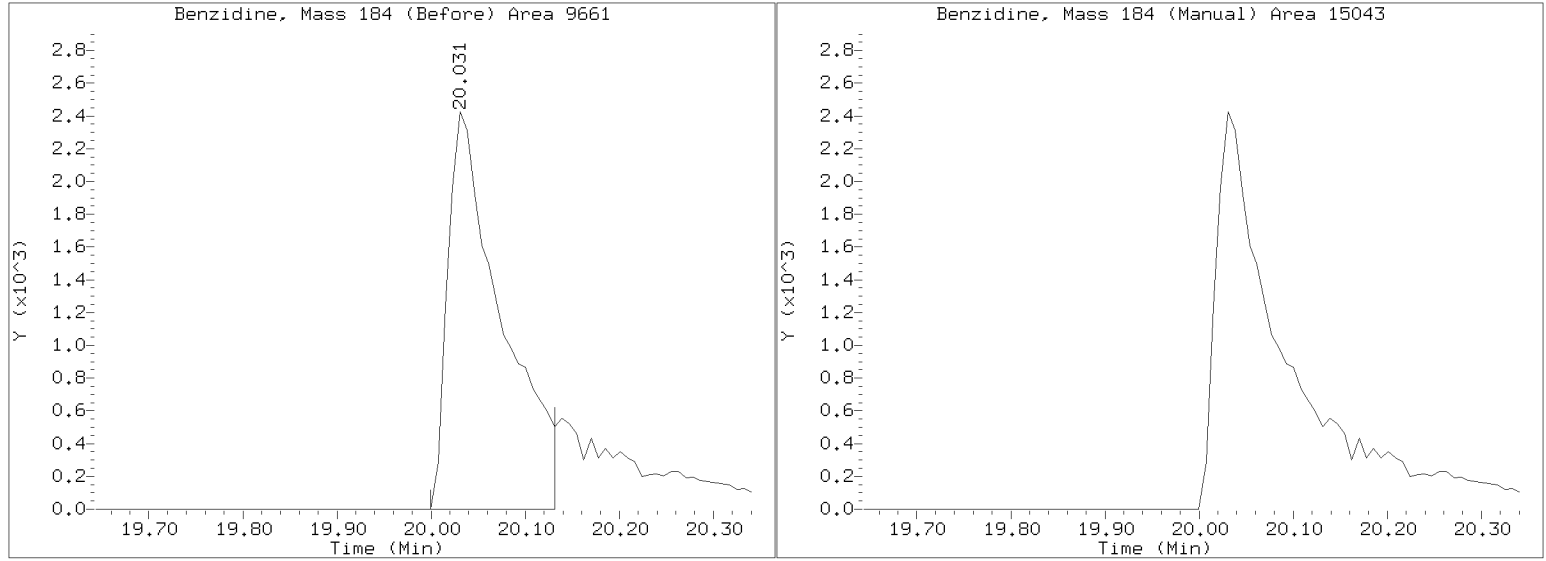
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022838.D

Injection Date: 01-MAR-2023 23:52

Lab ID:SLB0374-LCV3 Client ID:

Report Date: 03/14/2023 08:52





LOW-CONCENTRATION  
CONTINUING CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022839.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/02/23

Lab Sample ID: SLB0374-LCV4

Injection Time: 00:28

Sequence Name: ABN 0.5

| COMPOUND                     | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|------------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|---------|
|                              |      | STD           | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| Phenol                       | A    | 0.50000       | 0.5  | 1.8373500             | 1.8097760 |     | -1.5         | +/-50   |
| bis(2-chloroethyl) ether     | A    | 0.50000       | 0.5  | 1.5312550             | 1.3179000 |     | 1.8          | +/-50   |
| 2-Chlorophenol               | A    | 0.50000       | 0.5  | 1.3533690             | 1.2787660 |     | -5.5         | +/-50   |
| 1,3-Dichlorobenzene          | A    | 0.50000       | 0.5  | 1.4914740             | 1.5495410 |     | 3.9          | +/-50   |
| 1,4-Dichlorobenzene          | A    | 0.50000       | 0.5  | 1.4740600             | 1.4766830 |     | 0.2          | +/-50   |
| 1,2-Dichlorobenzene          | A    | 0.50000       | 0.5  | 1.4134490             | 1.4983230 |     | 6.0          | +/-50   |
| Benzyl Alcohol               | A    | 0.50000       | 0.3  | 0.6439892             | 0.5336097 |     | -33.4        | +/-50   |
| 2,2'-Oxybis(1-chloropropane) | A    | 0.50000       | 0.5  | 0.3811859             | 0.3982225 |     | 4.5          | +/-50   |
| 2-Methylphenol               | A    | 0.50000       | 0.6  | 1.1607310             | 1.3735440 |     | 18.3         | +/-50   |
| Hexachloroethane             | A    | 0.50000       | 0.4  | 0.5535732             | 0.4382695 |     | -20.8        | +/-50   |
| N-Nitroso-di-n-Propylamine   | A    | 0.50000       | 0.6  | 0.8837751             | 0.9885304 |     | 11.9         | +/-50   |
| 4-Methylphenol               | A    | 0.50000       | 0.4  | 1.1353050             | 1.0937070 |     | -19.1        | +/-50   |
| Nitrobenzene                 | A    | 0.50000       | 0.5  | 0.3760061             | 0.4026481 |     | 7.1          | +/-50   |
| Isophorone                   | A    | 0.50000       | 0.4  | 0.4996273             | 0.5204050 |     | -11.4        | +/-50   |
| 2-Nitrophenol                | A    | 0.50000       | 0.4  | 0.1467597             | 0.1498054 |     | -23.0        | +/-50   |
| 2,4-Dimethylphenol           | A    | 1.0000        | 1.0  | 0.3427845             | 0.3512590 |     | 2.5          | +/-50   |
| Bis(2-Chloroethoxy)methane   | A    | 0.50000       | 0.5  | 0.3780235             | 0.4005966 |     | 6.0          | +/-50   |
| 2,4-Dichlorophenol           | A    | 1.0000        | 0.9  | 0.2946235             | 0.3030667 |     | -12.6        | +/-50   |
| 1,2,4-Trichlorobenzene       | A    | 0.50000       | 0.5  | 0.3874001             | 0.3848810 |     | -0.7         | +/-50   |
| Naphthalene                  | A    | 0.50000       | 0.5  | 1.0669580             | 1.1218970 |     | 5.2          | +/-50   |
| Benzoic acid                 | A    | 2.0000        | 0.9  | 0.1358415             | 0.0617566 |     | -54.5        | +/-50 * |
| 4-Chloroaniline              | A    | 1.0000        | 0.9  | 0.4563565             | 0.4092311 |     | -10.3        | +/-50   |
| Hexachlorobutadiene          | A    | 0.50000       | 0.5  | 0.2363916             | 0.2181251 |     | -7.7         | +/-50   |
| 4-Chloro-3-Methylphenol      | A    | 1.0000        | 1.0  | 0.3085482             | 0.3073192 |     | -0.4         | +/-50   |
| 2-Methylnaphthalene          | A    | 0.50000       | 0.5  | 0.7901196             | 0.8125664 |     | 2.8          | +/-50   |
| Hexachlorocyclopentadiene    | A    | 1.0000        | 0.01 | 0.3443795             | 0.0047913 |     | -98.9        | +/-50 * |
| 2,4,6-Trichlorophenol        | A    | 1.0000        | 0.9  | 0.3907367             | 0.3476657 |     | -11.0        | +/-50   |
| 2,4,5-Trichlorophenol        | A    | 1.0000        | 0.8  | 0.4224702             | 0.3477864 |     | -17.7        | +/-50   |
| 2-Chloronaphthalene          | A    | 0.50000       | 0.5  | 1.2480280             | 1.2780150 |     | 2.4          | +/-50   |
| 2-Nitroaniline               | A    | 1.0000        | 1.1  | 0.3254949             | 0.3484241 |     | 7.0          | +/-50   |
| Acenaphthylene               | A    | 0.50000       | 0.6  | 1.8312950             | 2.0563160 |     | 12.3         | +/-50   |
| Dimethylphthalate            | A    | 0.50000       | 0.6  | 1.2581570             | 1.3918690 |     | 10.6         | +/-50   |
| 2,6-Dinitrotoluene           | A    | 1.0000        | 1.0  | 0.2948315             | 0.2959088 |     | 0.4          | +/-50   |
| Acenaphthene                 | A    | 0.50000       | 0.5  | 1.1724930             | 1.2187950 |     | 4.0          | +/-50   |

\* Values outside of QC limits



LOW-CONCENTRATION  
CONTINUING CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022839.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/02/23

Lab Sample ID: SLB0374-LCV4

Injection Time: 00:28

Sequence Name: ABN 0.5

| COMPOUND                   | TYPE | CONC. (ug/mL) |       | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|----------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|---------|
|                            |      | STD           | CCV   | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| 3-Nitroaniline             | A    | 1.0000        | 0.8   | 0.3021810             | 0.2305190 |     | -23.7        | +/-50   |
| 2,4-Dinitrophenol          | A    | 2.0000        | 0.3   | 0.1437811             | 0.0309283 |     | -83.4        | +/-50 * |
| Dibenzofuran               | A    | 0.50000       | 0.5   | 1.8656210             | 1.8752780 |     | 0.5          | +/-50   |
| 4-Nitrophenol              | A    | 1.0000        | 0.8   | 0.1323756             | 0.1156818 |     | -22.6        | +/-50   |
| 2,4-Dinitrotoluene         | A    | 1.0000        | 0.9   | 0.4244424             | 0.3725876 |     | -12.2        | +/-50   |
| Fluorene                   | A    | 0.50000       | 0.5   | 1.5719010             | 1.6370900 |     | 4.1          | +/-50   |
| 4-Chlorophenylphenyl ether | A    | 0.50000       | 0.5   | 0.8363665             | 0.8271452 |     | -1.1         | +/-50   |
| Diethyl phthalate          | A    | 0.50000       | 0.6   | 1.1765440             | 1.2958010 |     | 10.1         | +/-50   |
| 4-Nitroaniline             | A    | 1.0000        | 0.7   | 0.2995450             | 0.2143870 |     | -28.4        | +/-50   |
| 4,6-Dinitro-2-methylphenol | A    | 2.0000        | 0.8   | 0.0975169             | 0.0505395 |     | -62.0        | +/-50 * |
| N-Nitrosodiphenylamine     | A    | 0.50000       | 0.6   | 0.5026629             | 0.5673248 |     | 12.9         | +/-50   |
| 4-Bromophenyl phenyl ether | A    | 0.50000       | 0.5   | 0.2209900             | 0.2241227 |     | 1.4          | +/-50   |
| Hexachlorobenzene          | A    | 0.50000       | 0.5   | 0.2429692             | 0.2552487 |     | 5.1          | +/-50   |
| Pentachlorophenol          | A    | 1.0000        | 0.5   | 0.0938263             | 0.0575007 |     | -49.8        | +/-50   |
| Phenanthrene               | A    | 0.50000       | 0.5   | 1.0640870             | 1.0964860 |     | 3.0          | +/-50   |
| Anthracene                 | A    | 0.50000       | 0.5   | 1.0059580             | 1.0694760 |     | 6.3          | +/-50   |
| Carbazole                  | A    | 0.50000       | 0.5   | 0.8816605             | 0.8660286 |     | -1.8         | +/-50   |
| Di-n-Butylphthalate        | A    | 0.50000       | 0.5   | 0.9469101             | 1.1275940 |     | -0.9         | +/-50   |
| Fluoranthene               | A    | 0.50000       | 0.5   | 1.5175930             | 1.4198450 |     | -6.4         | +/-50   |
| Pyrene                     | A    | 0.50000       | 0.5   | 1.6000330             | 1.5175590 |     | -5.2         | +/-50   |
| Butylbenzylphthalate       | A    | 0.50000       | 0.5   | 0.4562763             | 0.5695220 |     | 0.7          | +/-50   |
| Benzo(a)anthracene         | A    | 0.50000       | 0.5   | 1.3399020             | 1.4649550 |     | 9.3          | +/-50   |
| 3,3'-Dichlorobenzidine     | A    | 1.5000        | 1.9   | 0.3826468             | 0.4837237 |     | 26.4         | +/-50   |
| Chrysene                   | A    | 0.50000       | 0.5   | 1.2879040             | 1.3531260 |     | 5.1          | +/-50   |
| bis(2-Ethylhexyl)phthalate | A    | 0.50000       | 0.5   | 0.5161185             | 0.5596532 |     | -8.3         | +/-50   |
| Di-n-Octylphthalate        | A    | 0.50000       | 0.5   | 1.0531830             | 1.0610900 |     | 0.8          | +/-50   |
| Benzofluoranthenes, Total  | A    | 1.0000        | 1.2   | 1.2927770             | 1.5088970 |     | 16.7         | +/-50   |
| Benzo(a)pyrene             | A    | 0.50000       | 0.5   | 1.1338150             | 1.2328670 |     | 8.7          | +/-50   |
| Indeno(1,2,3-cd)pyrene     | A    | 0.50000       | 0.3   | 1.4272450             | 0.7193540 |     | -49.6        | +/-50   |
| Dibenzo(a,h)anthracene     | A    | 0.50000       | 0.3   | 1.2122070             | 0.6818961 |     | -43.7        | +/-50   |
| Benzo(g,h,i)perylene       | A    | 0.50000       | 0.2   | 1.2448130             | 0.4944038 |     | -60.3        | +/-50 * |
| 1-Methylnaphthalene        | A    | 0.50000       | 0.5   | 0.7274101             | 0.7398647 |     | 1.7          | +/-50   |
| 2-Fluorophenol             | A    | 0.75000       | 0.681 | 1.0846110             | 0.9855327 |     | -9.1         | +/-50   |
| Phenol-d5                  | A    | 0.75000       | 0.720 | 1.5399100             | 1.4782290 |     | -4.0         | +/-50   |

\* Values outside of QC limits



**LOW-CONCENTRATION  
CONTINUING CALIBRATION CHECK  
EPA 8270E**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT14</u>                      | Calibration:      | <u>GC00033</u>         |
| Lab File ID:   | <u>NT1423022839.D</u>            | Calibration Date: | <u>02/28/2023</u>      |
| Sequence:      | <u>SLB0374</u>                   | Injection Date:   | <u>03/02/23</u>        |
| Lab Sample ID: | <u>SLB0374-LCV4</u>              | Injection Time:   | <u>00:28</u>           |
| Sequence Name: | <u>ABN 0.5</u>                   |                   |                        |

| COMPOUND               | TYPE | CONC. (ug/mL) |       | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|-------|
|                        |      | STD           | CCV   | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| 2-Chlorophenol-d4      | A    | 0.75000       | 0.758 | 1.3093910             | 1.3231930 |     | 1.1          | +/-50 |
| 1,2-Dichlorobenzene-d4 | A    | 0.50000       | 0.499 | 0.9857584             | 0.9831205 |     | -0.3         | +/-50 |
| Nitrobenzene-d5        | A    | 0.50000       | 0.551 | 0.3912861             | 0.4312906 |     | 10.2         | +/-50 |
| 2-Fluorobiphenyl       | A    | 0.50000       | 0.519 | 1.5568580             | 1.6170970 |     | 3.9          | +/-50 |
| 2,4,6-Tribromophenol   | A    | 0.75000       | 0.542 | 0.1850894             | 0.1555752 |     | -27.7        | +/-50 |
| p-Terphenyl-d14        | A    | 0.50000       | 0.466 | 1.2319340             | 1.1472240 |     | -6.9         | +/-50 |

\* Values outside of QC limits

\* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022839.D

Date: 02-MAR-2023 00:28

Client ID:

Sample Info: SLB0374-LCV4

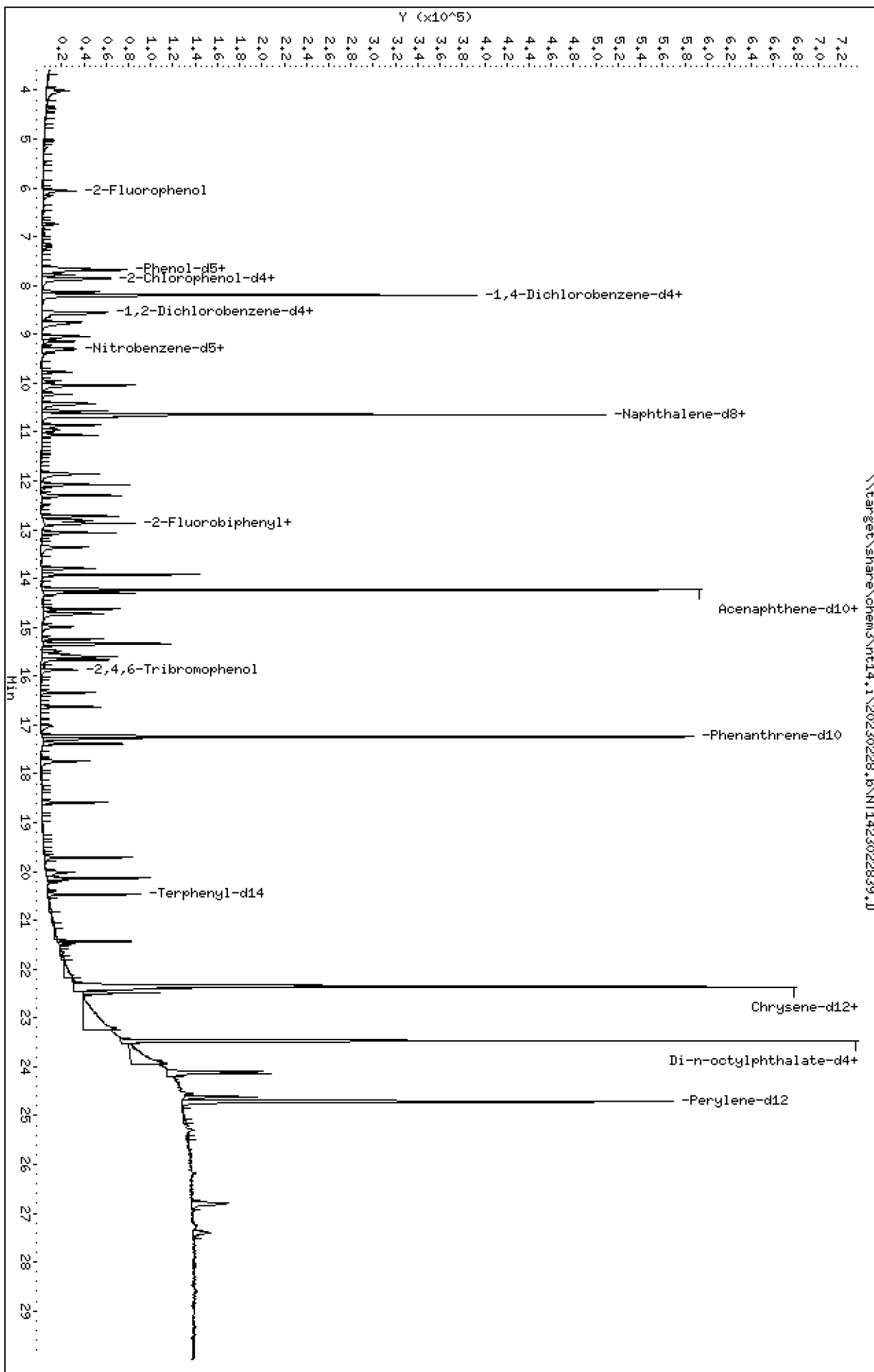
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

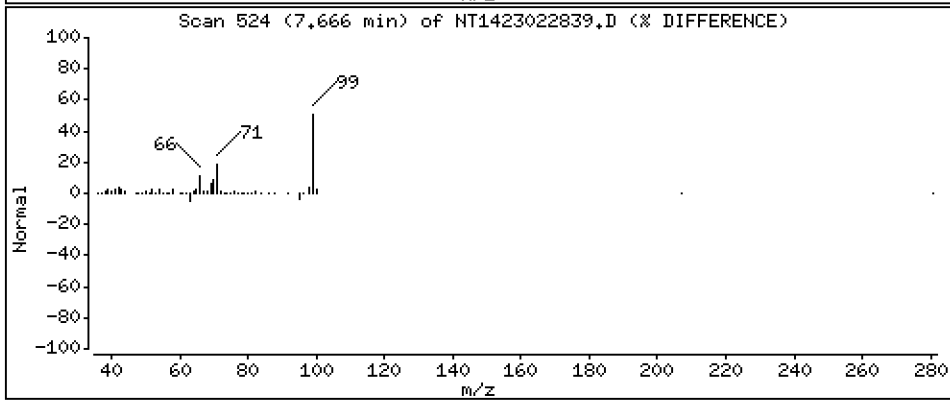
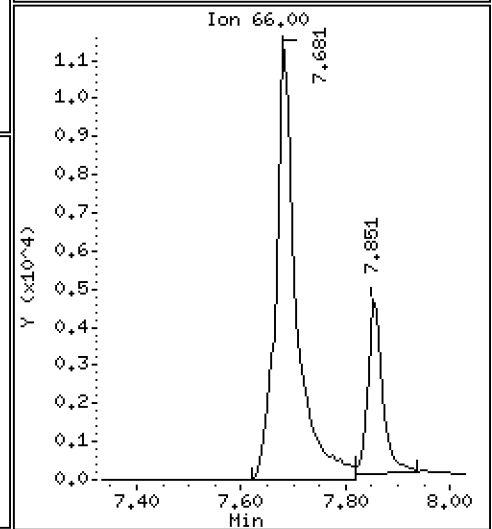
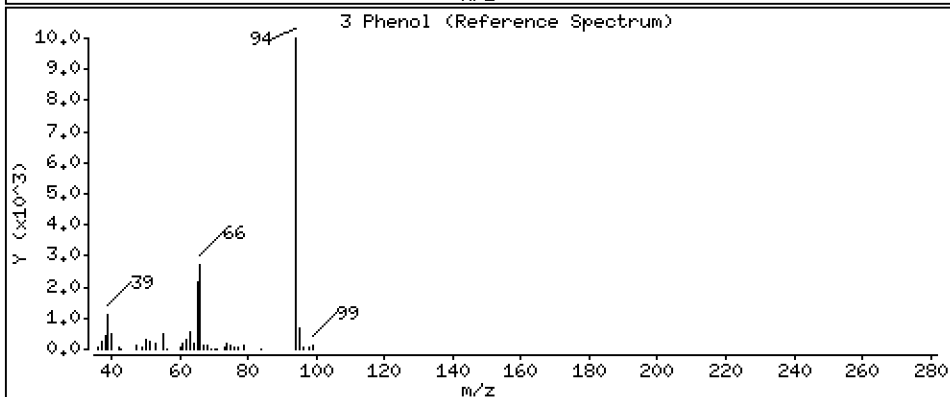
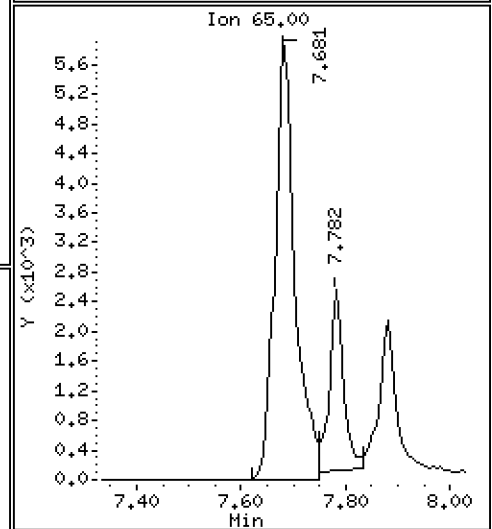
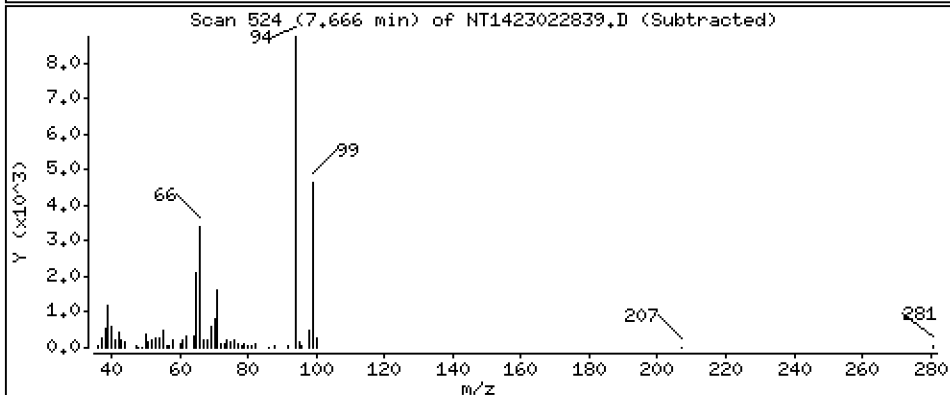
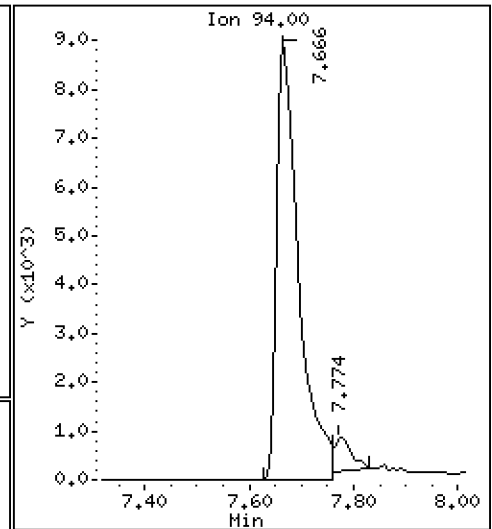
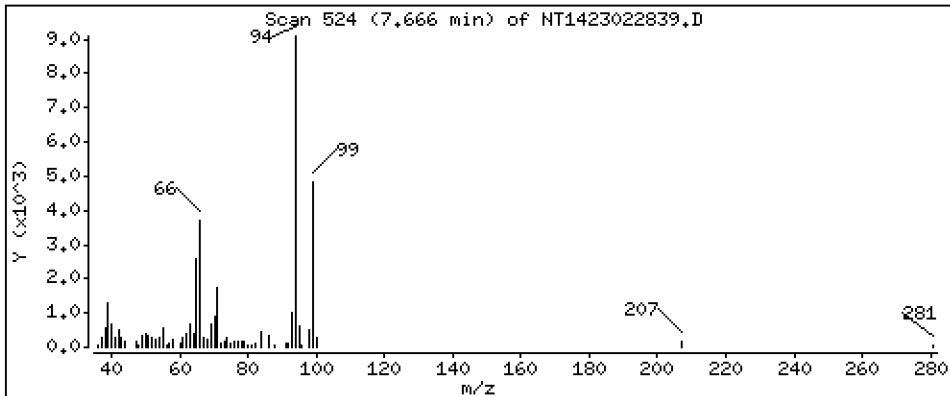
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 0.4925 ug/mL





Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

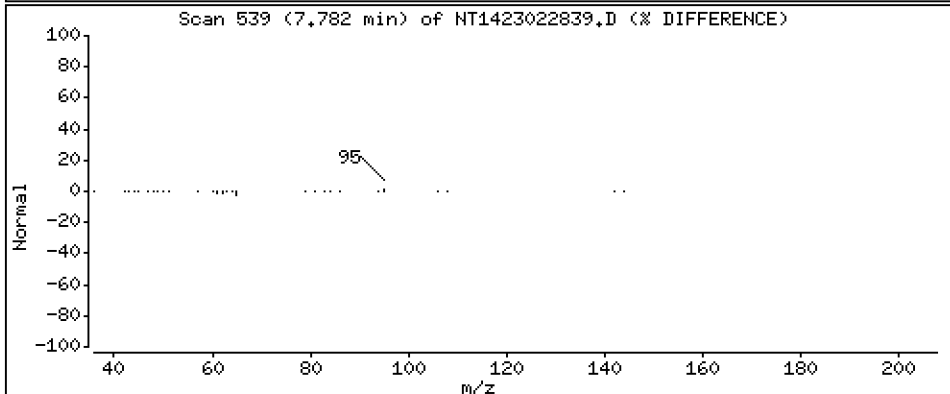
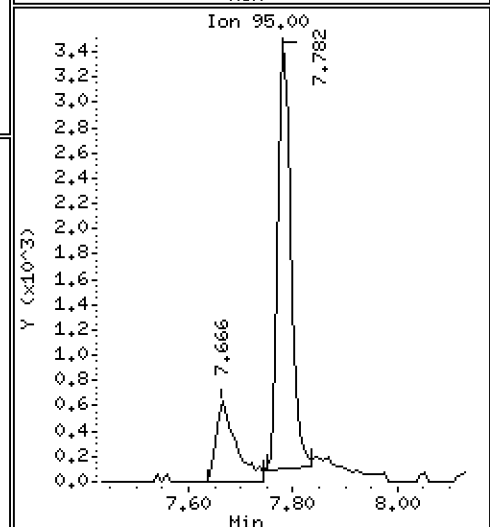
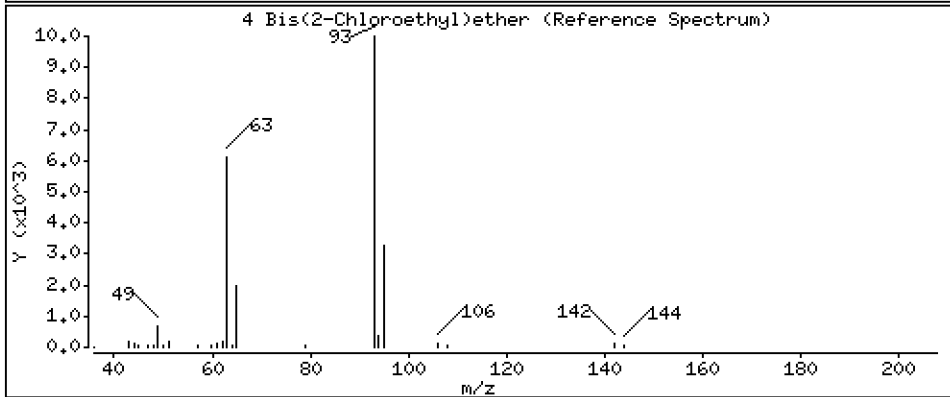
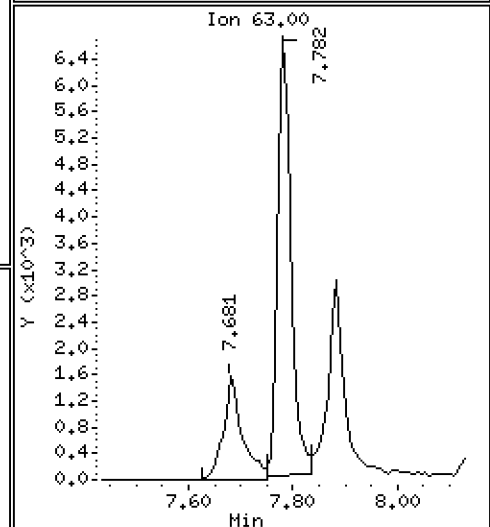
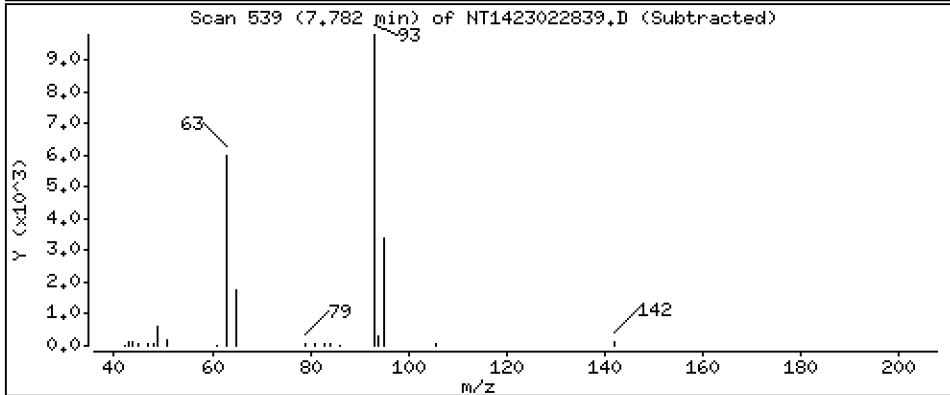
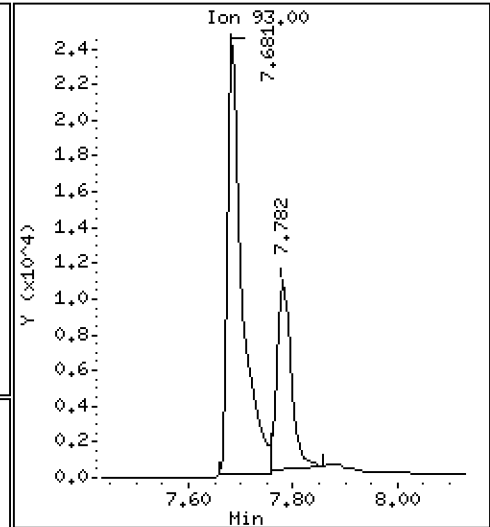
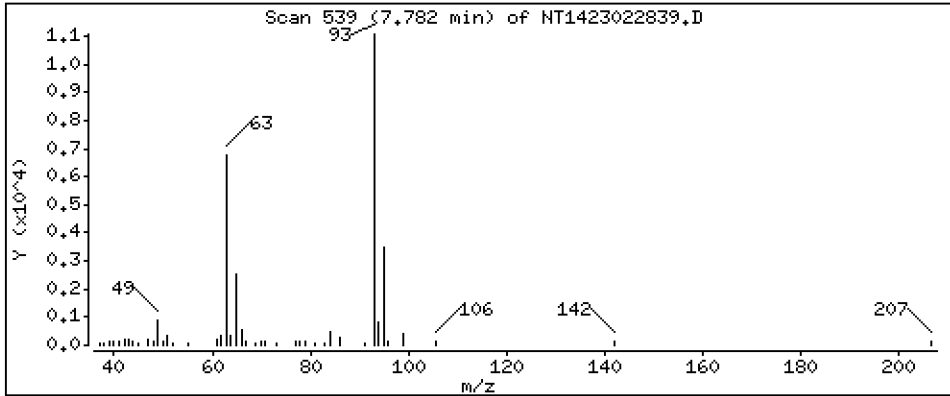
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,5090 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

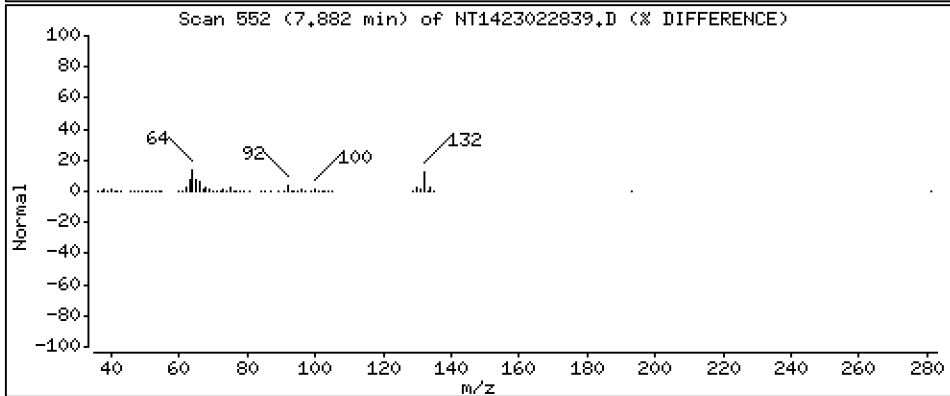
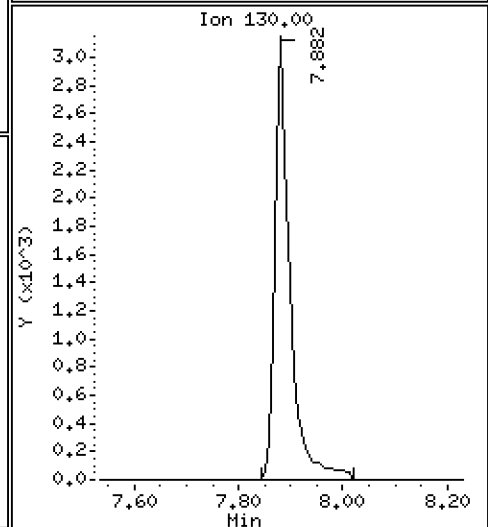
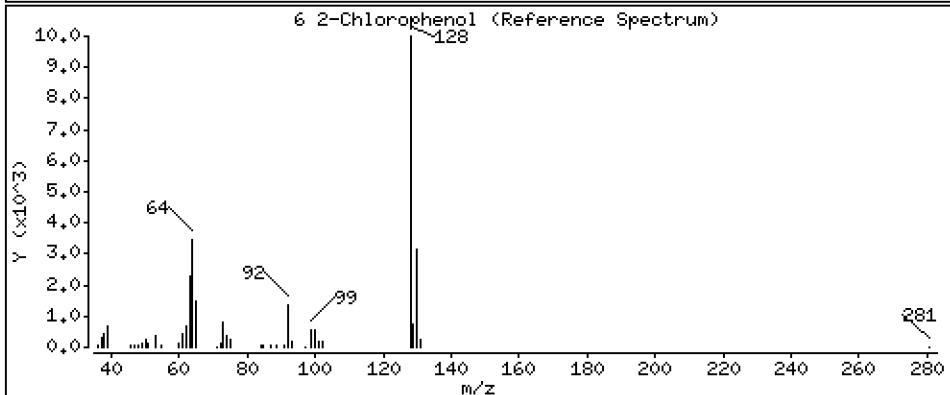
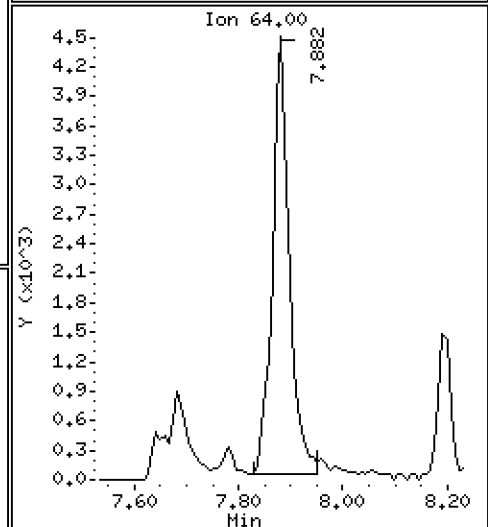
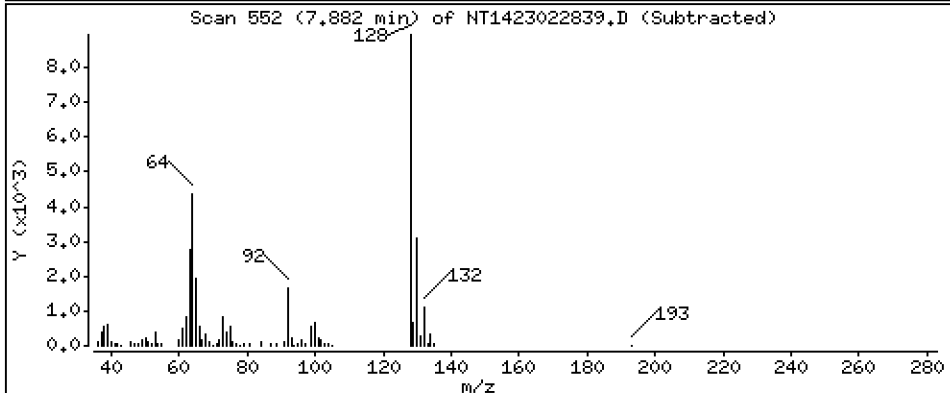
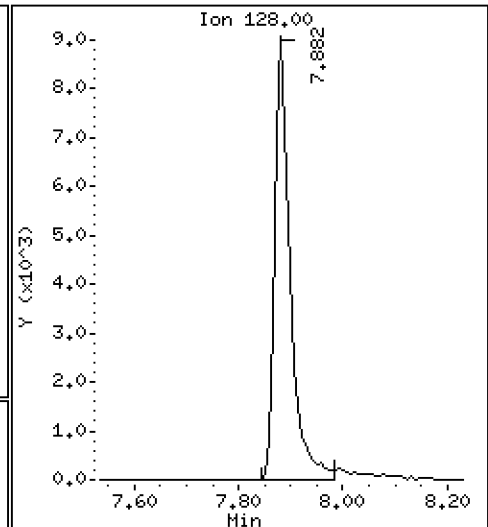
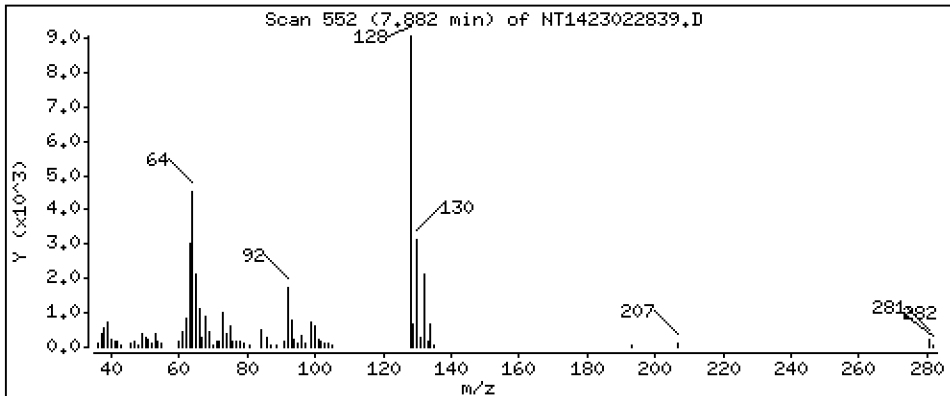
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,4724 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

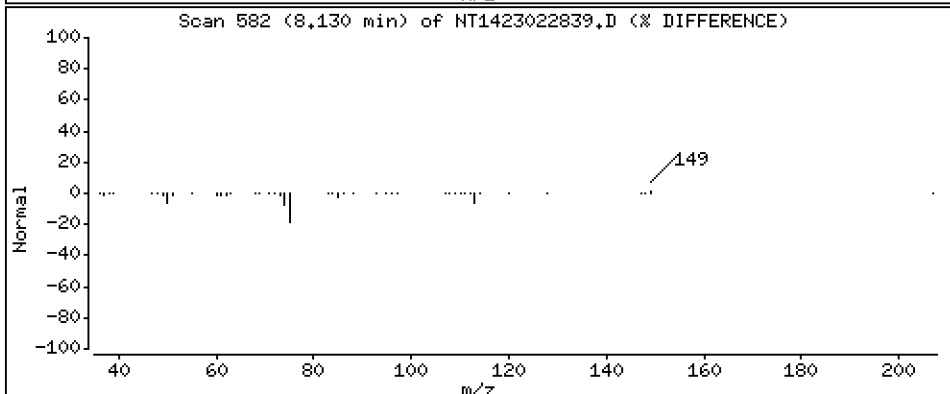
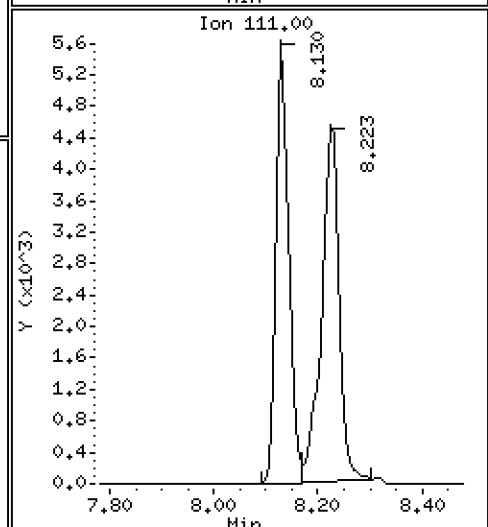
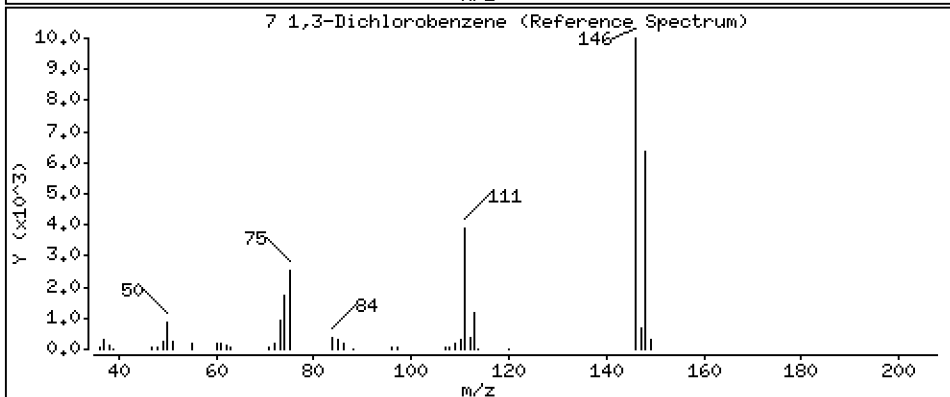
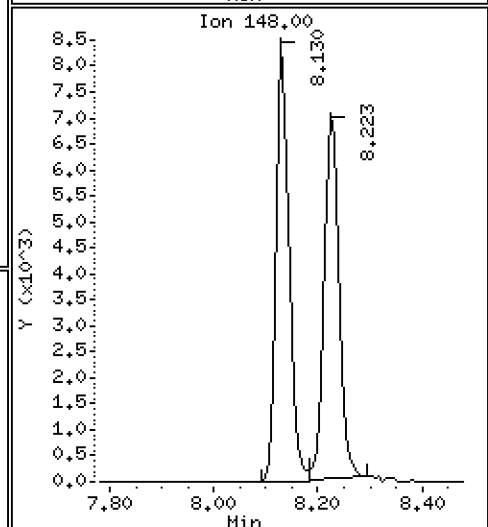
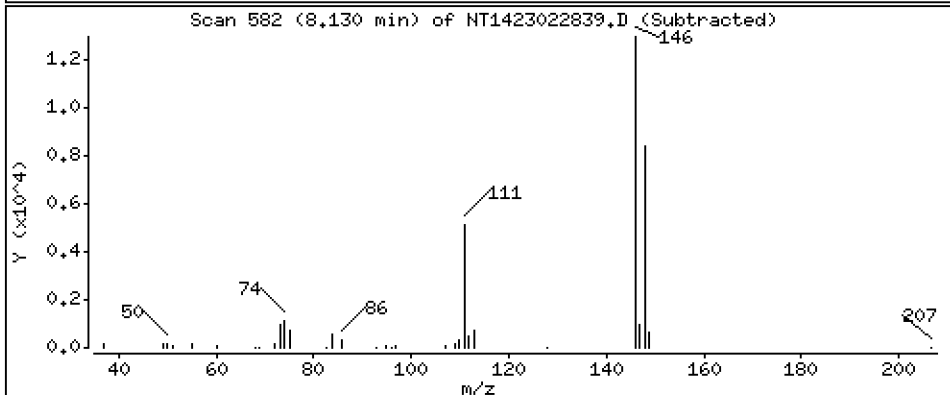
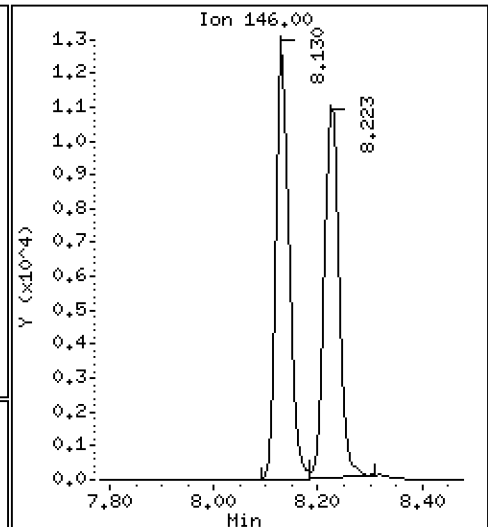
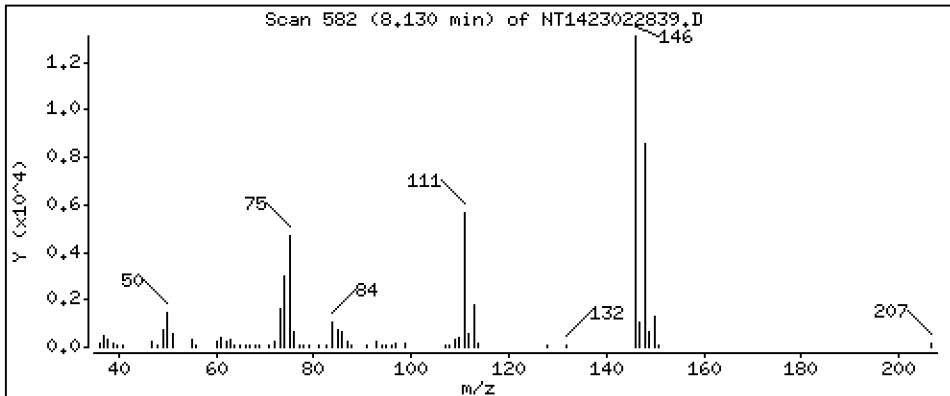
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.5195 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

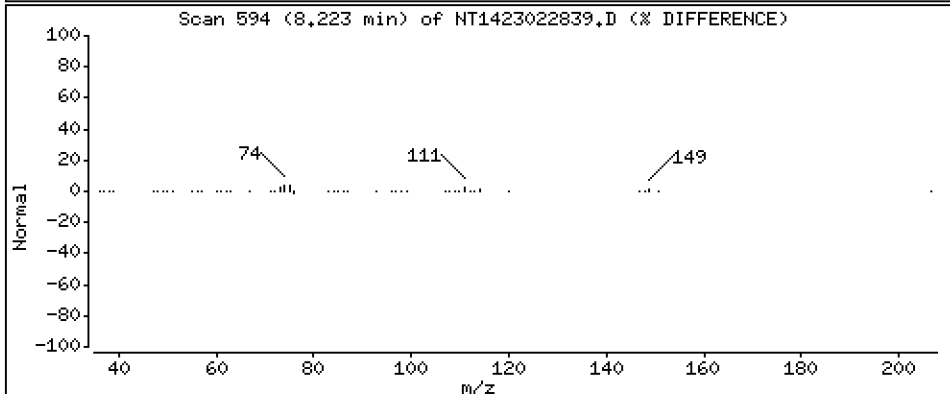
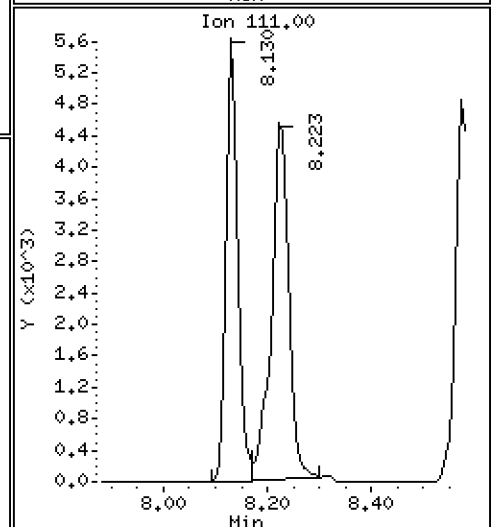
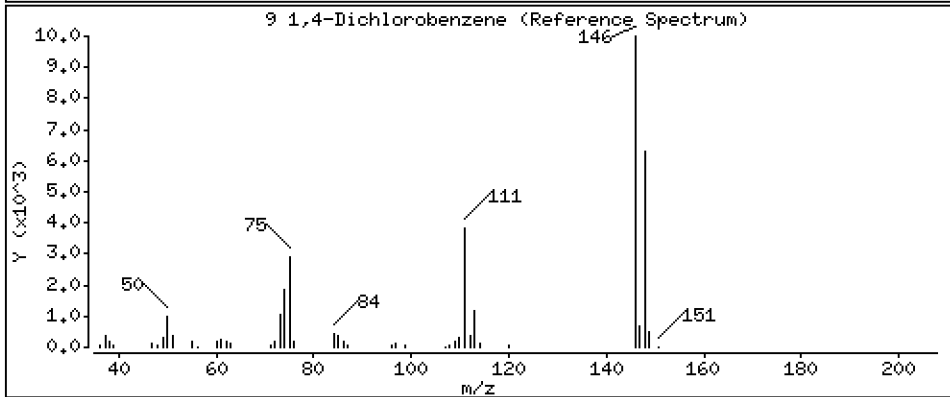
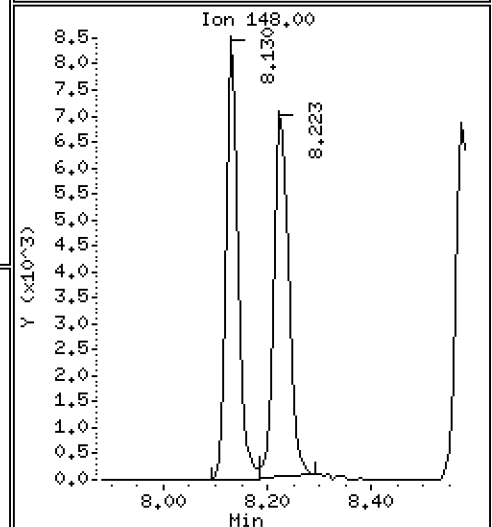
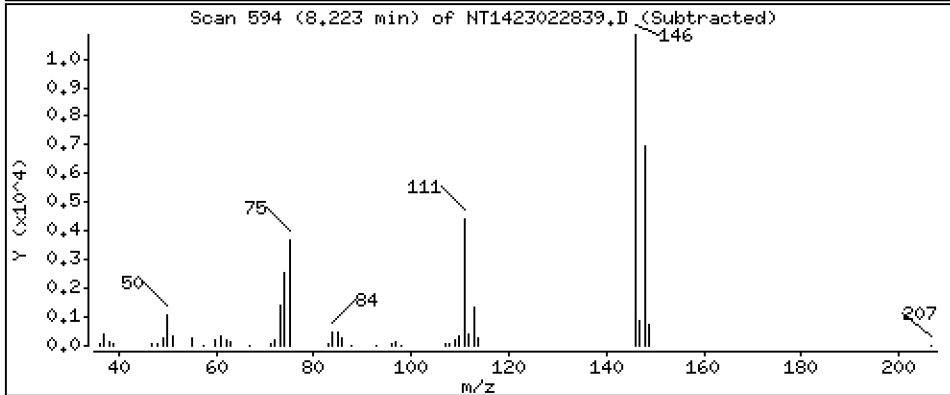
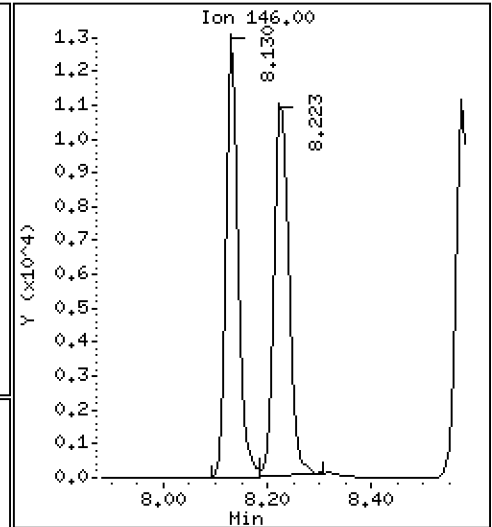
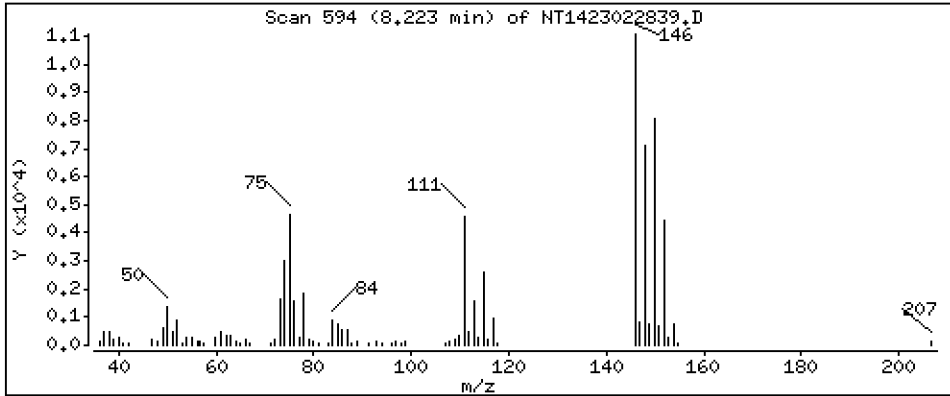
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,5009 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

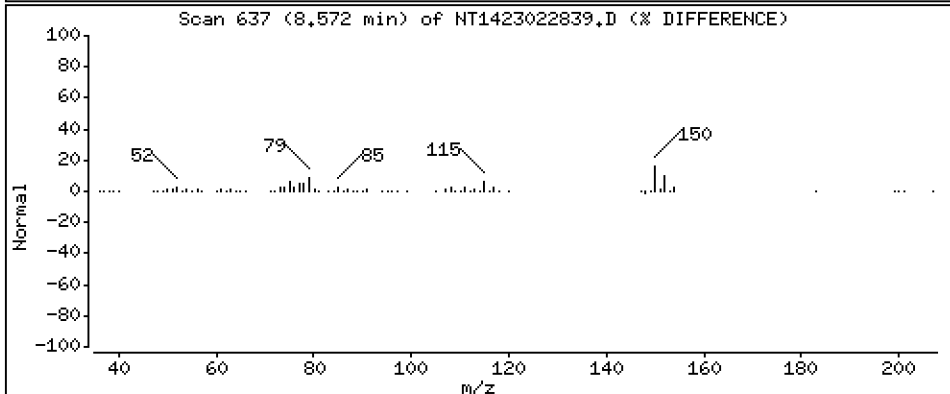
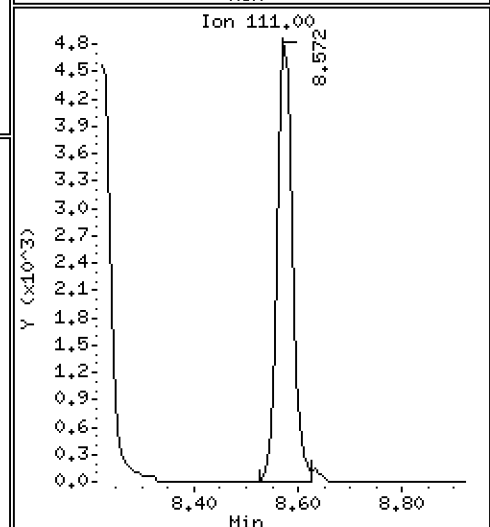
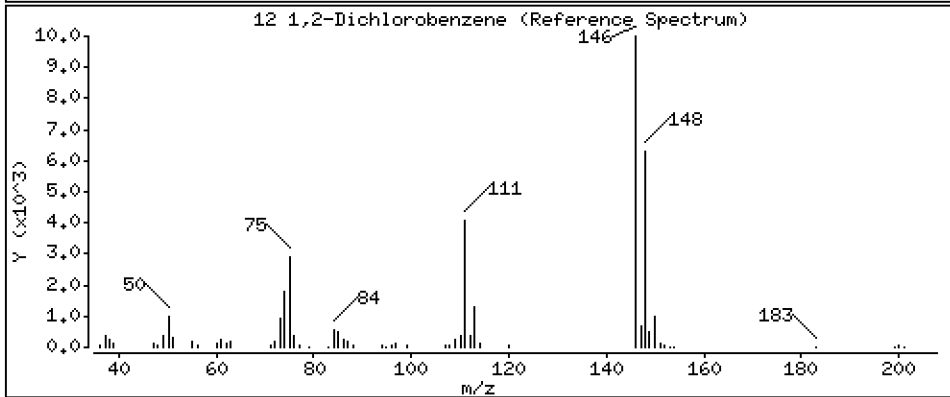
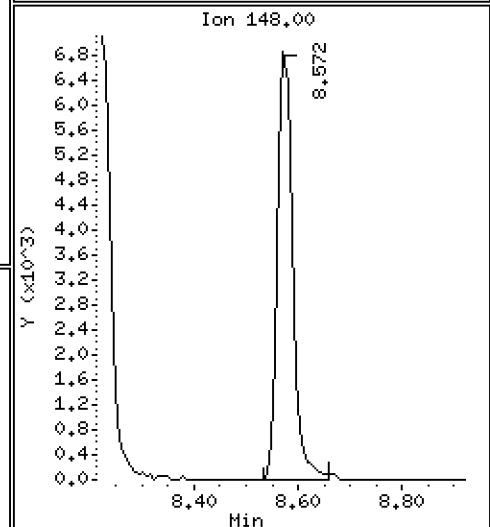
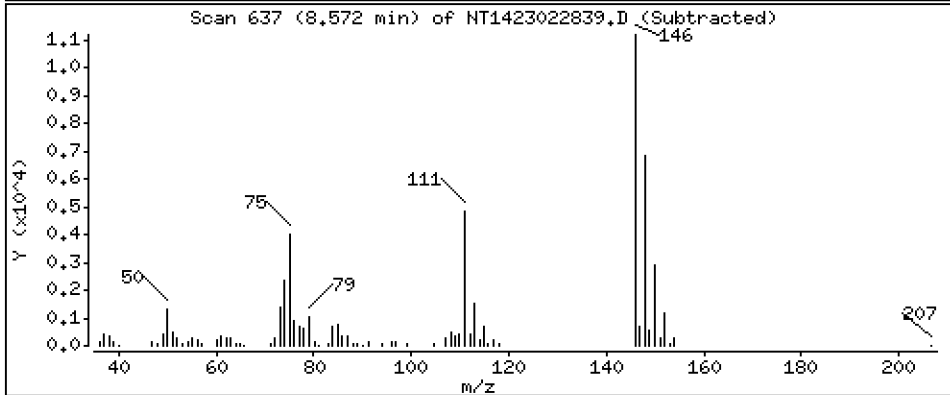
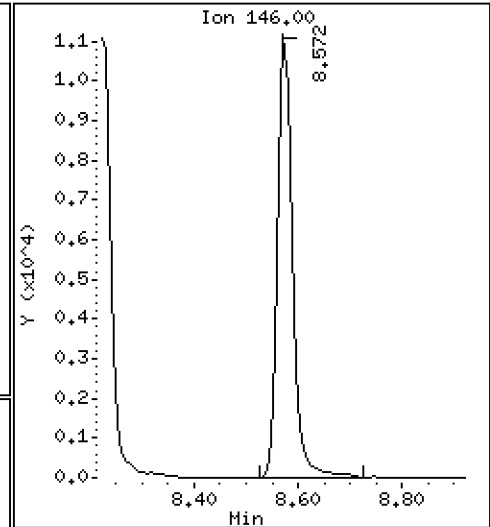
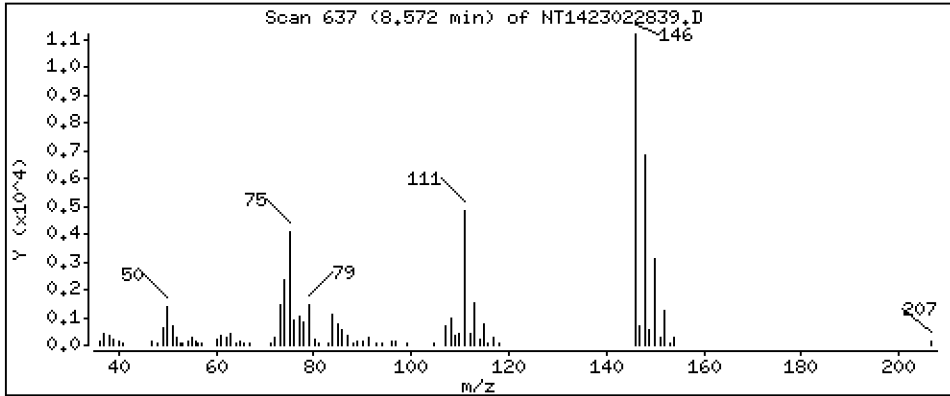
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,5300 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

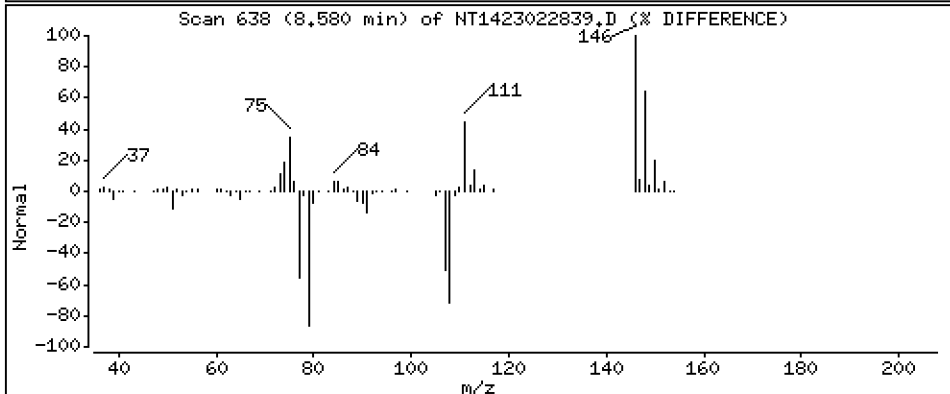
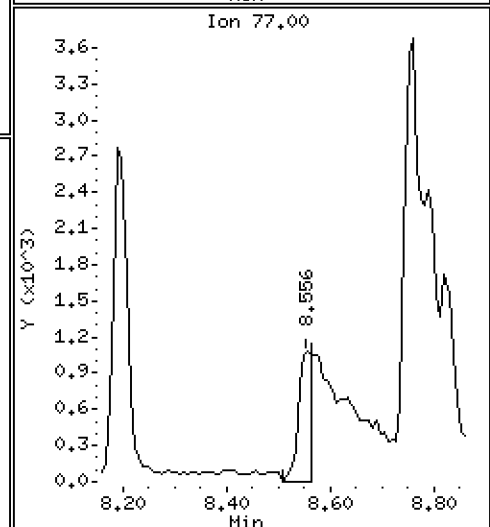
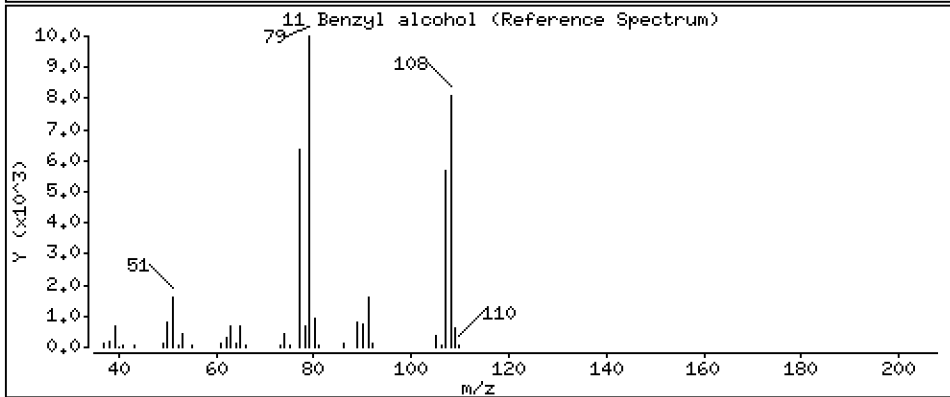
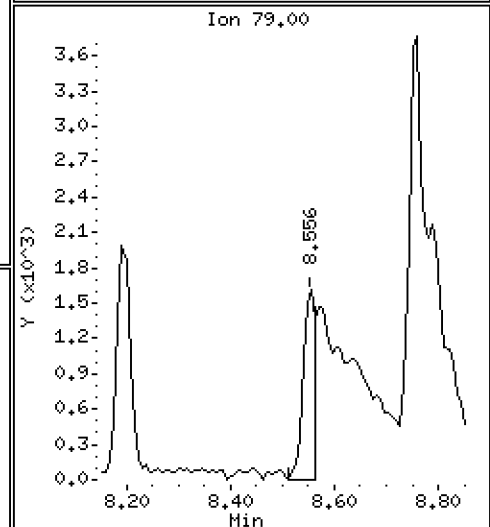
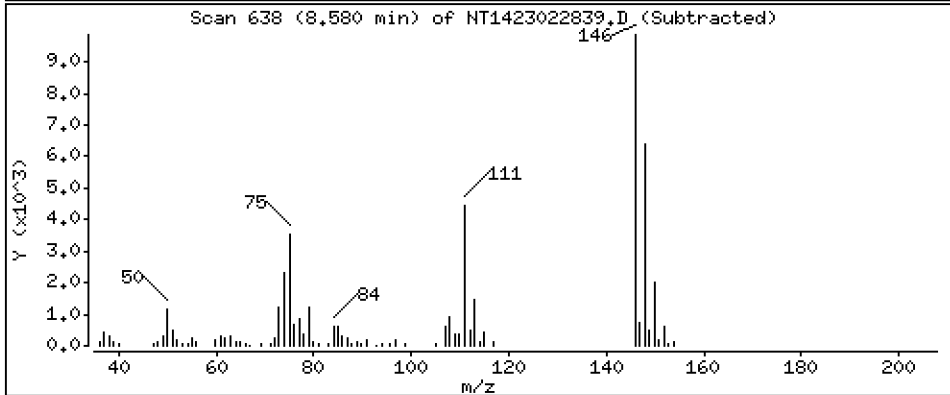
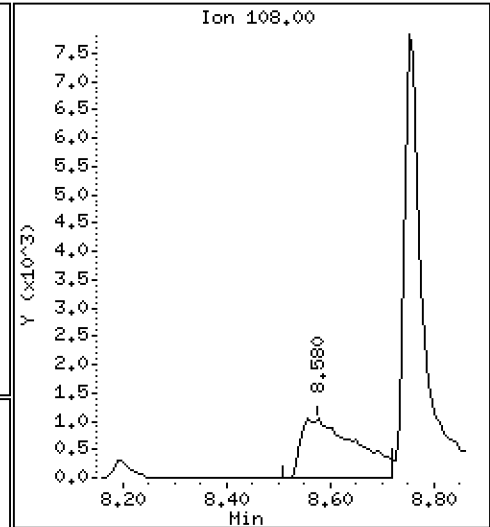
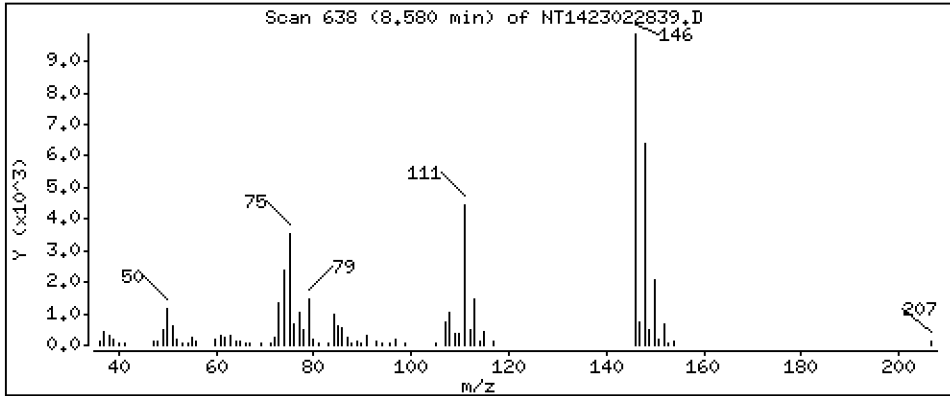
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.3329 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

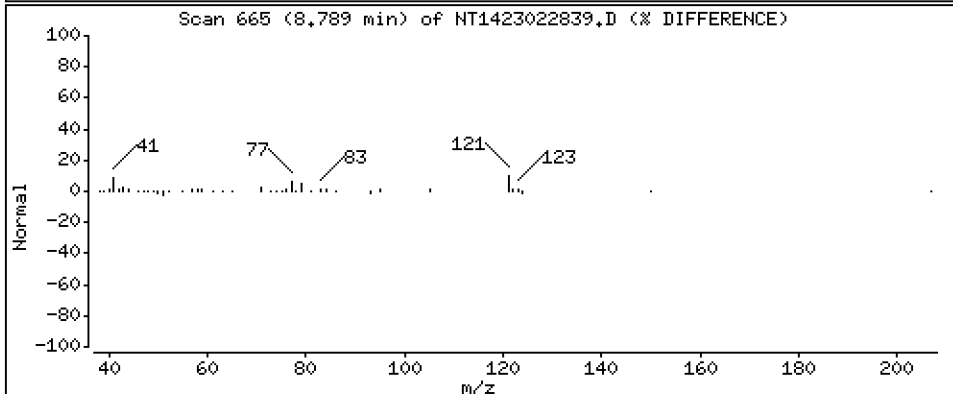
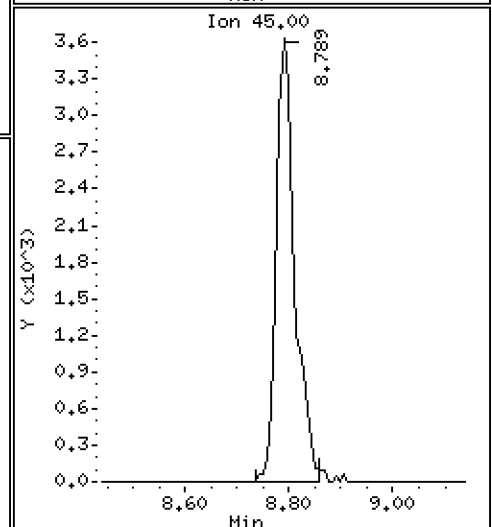
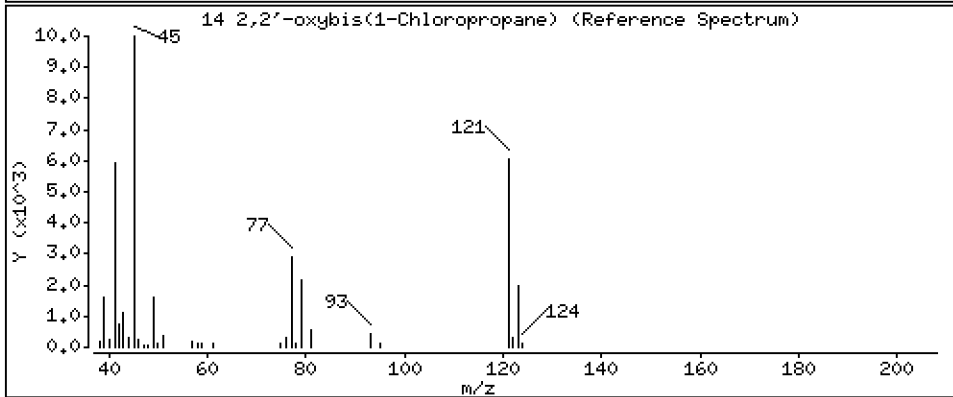
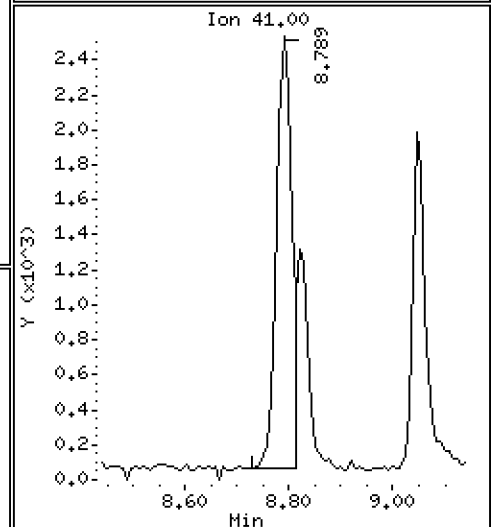
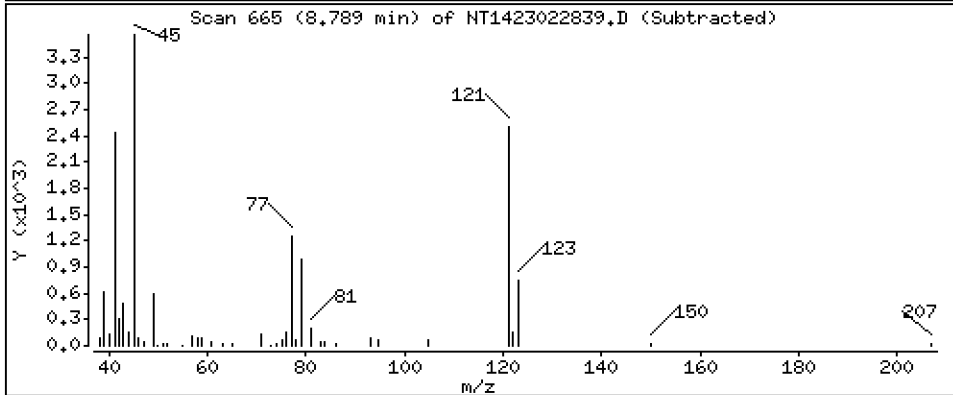
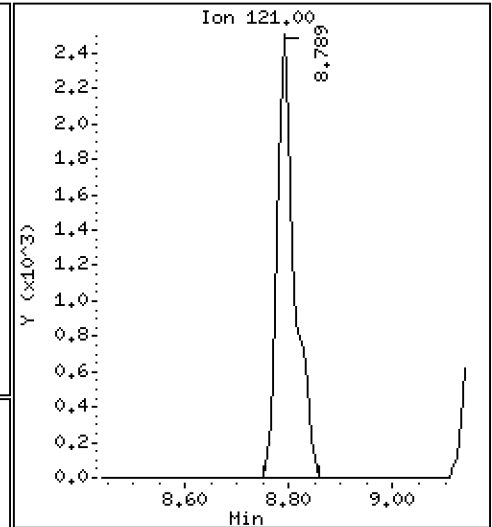
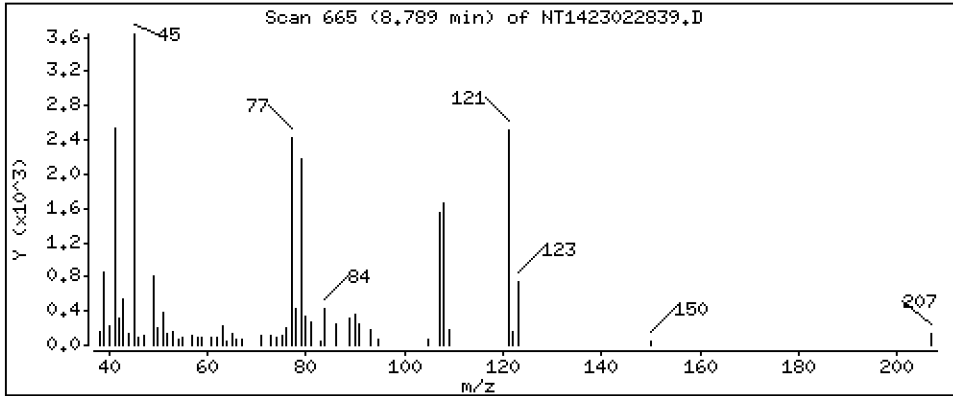
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 0,5223 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

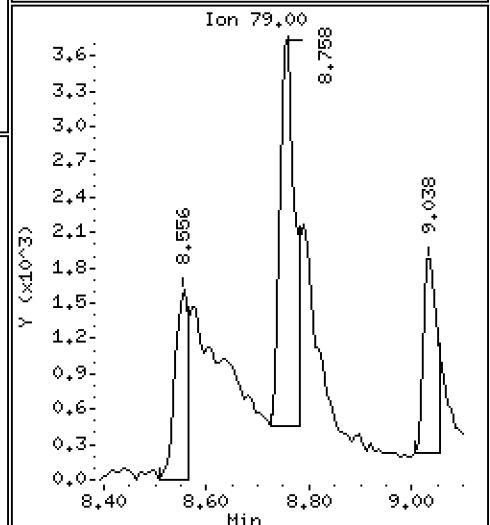
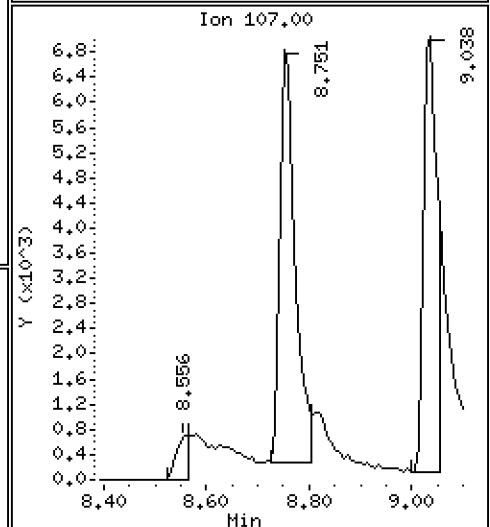
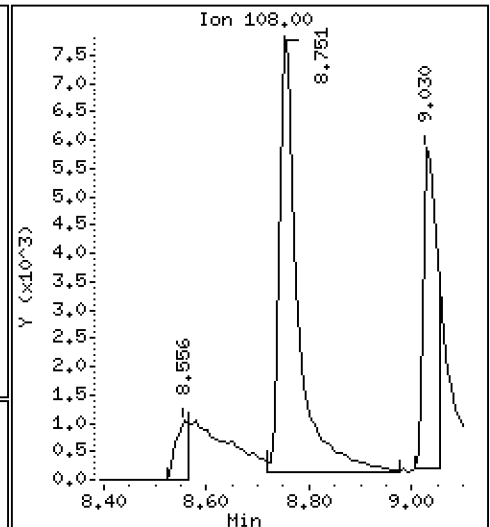
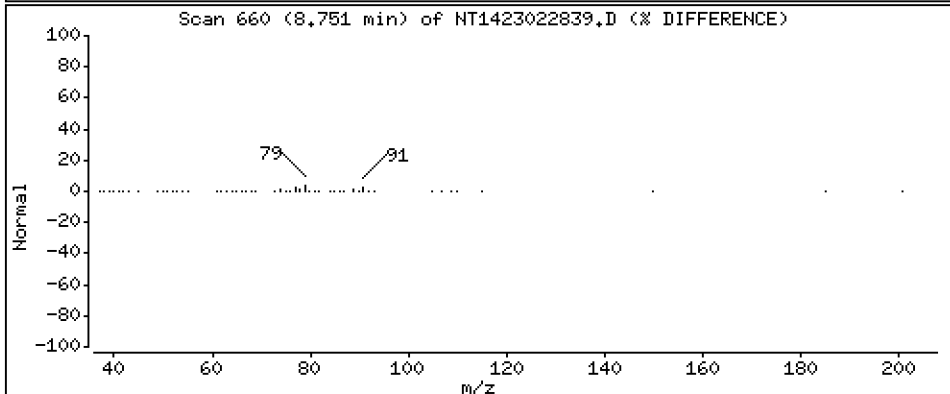
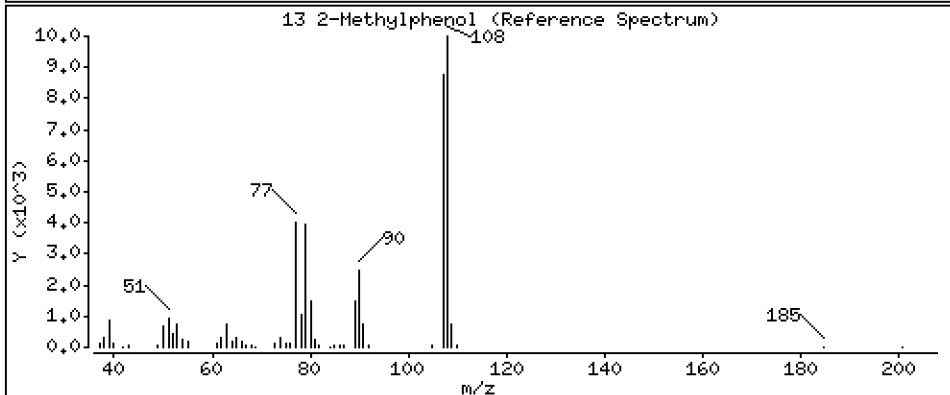
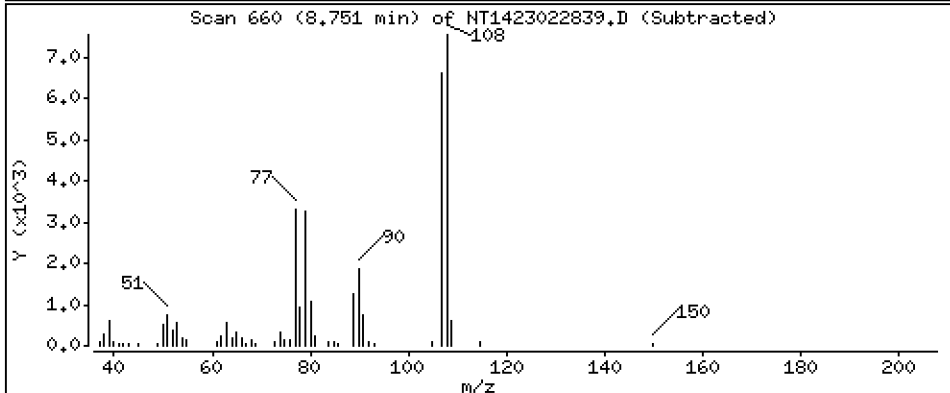
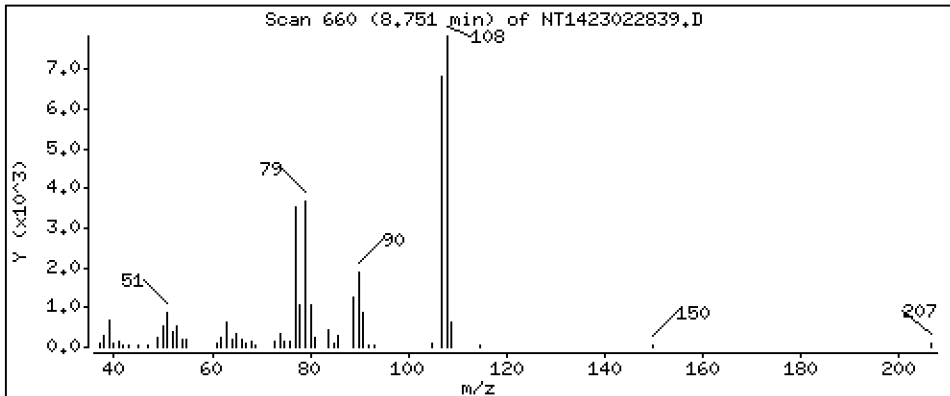
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.5917 ug/mL





Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

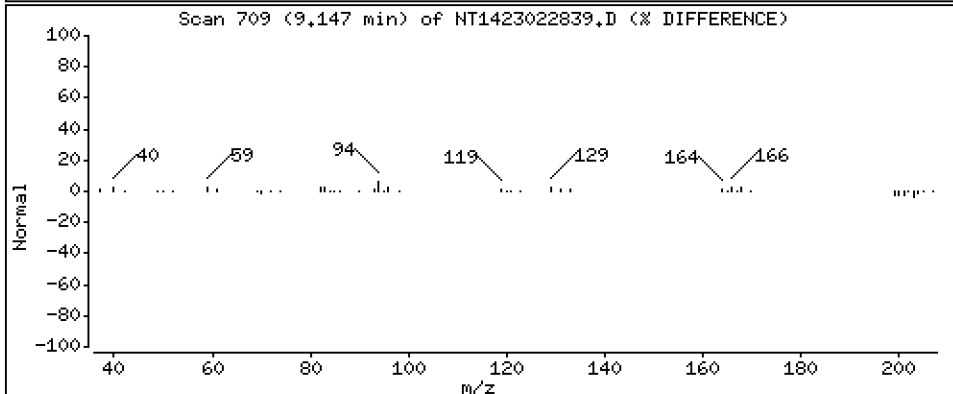
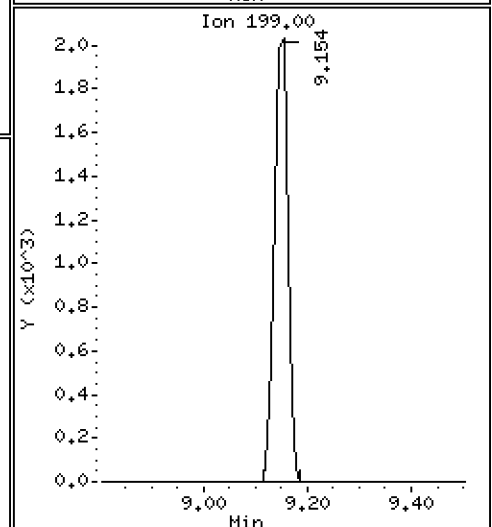
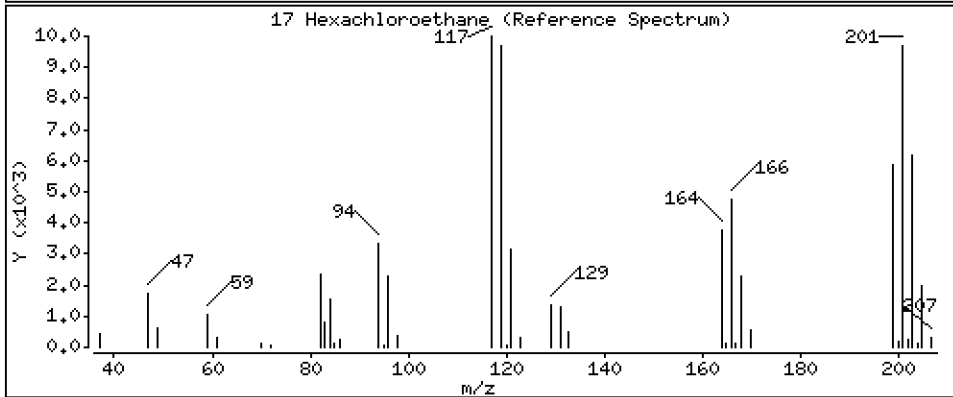
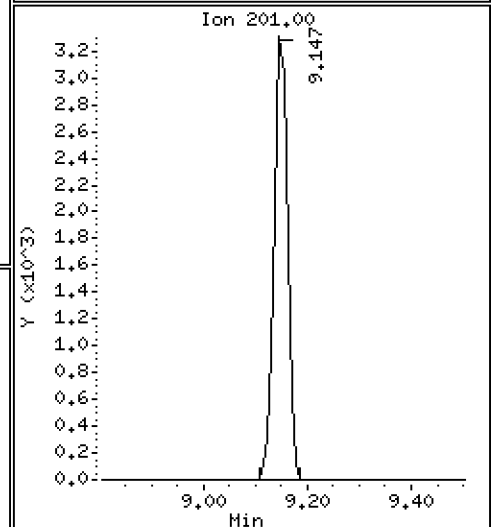
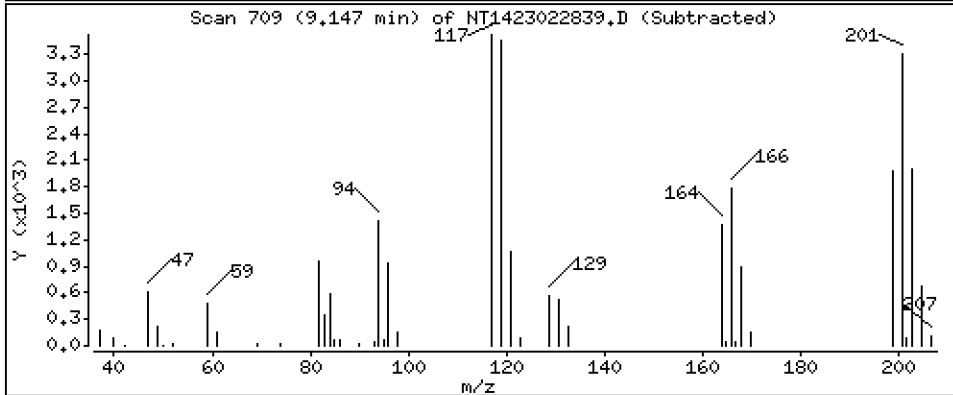
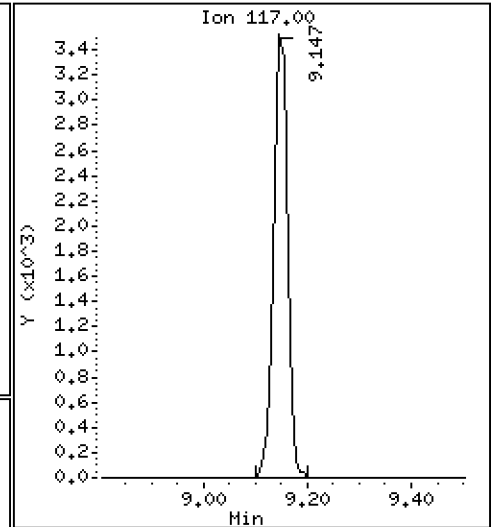
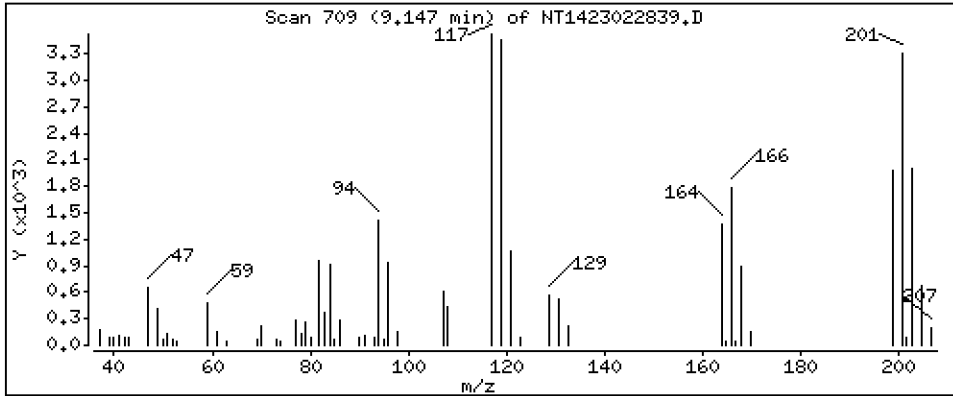
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 0.3959 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

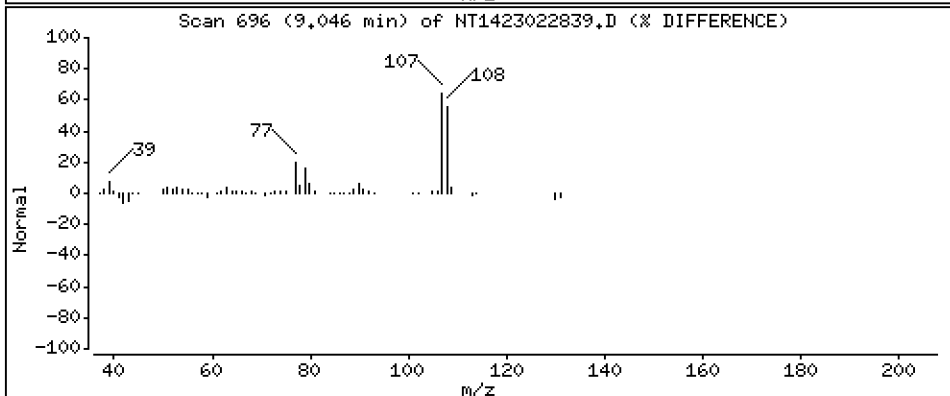
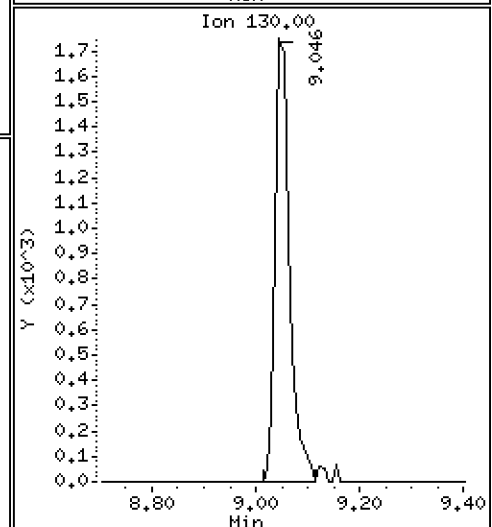
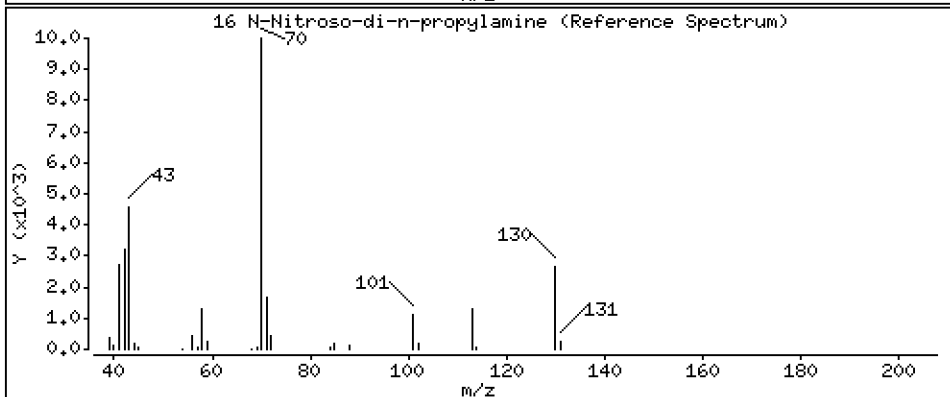
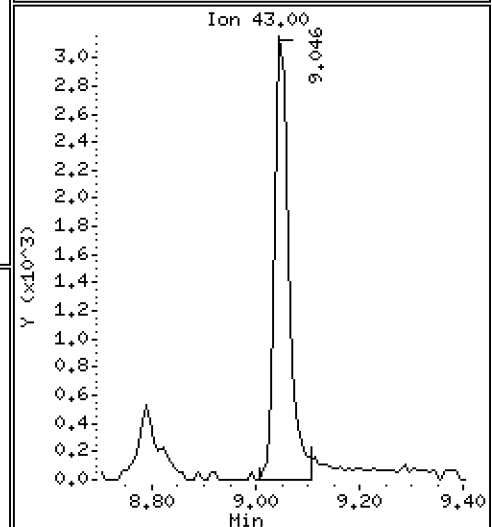
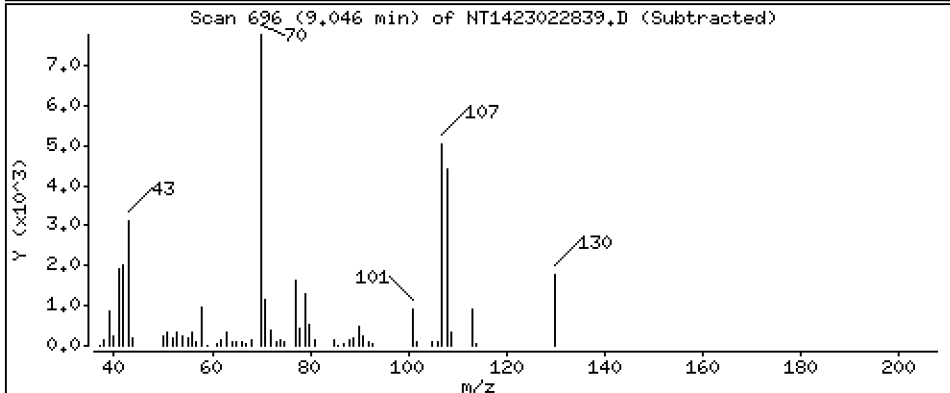
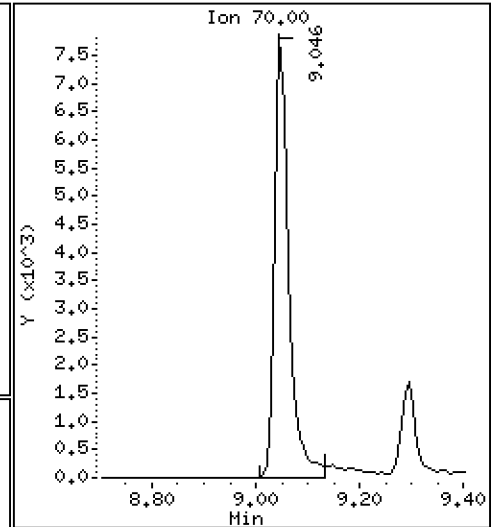
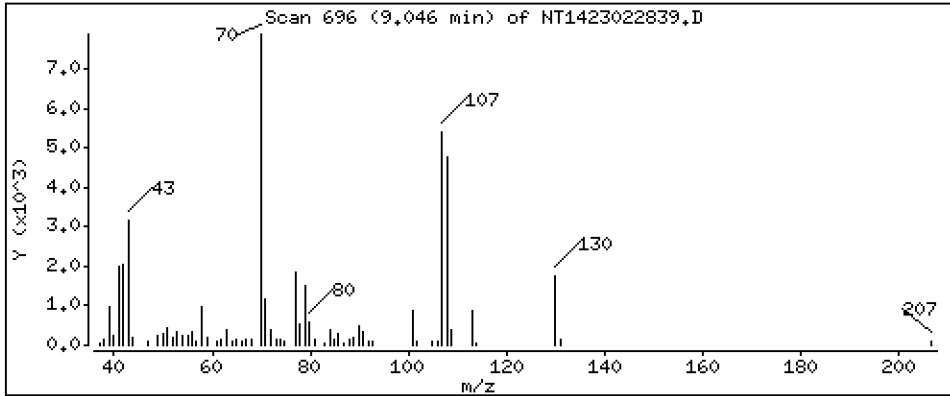
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 0.5593 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

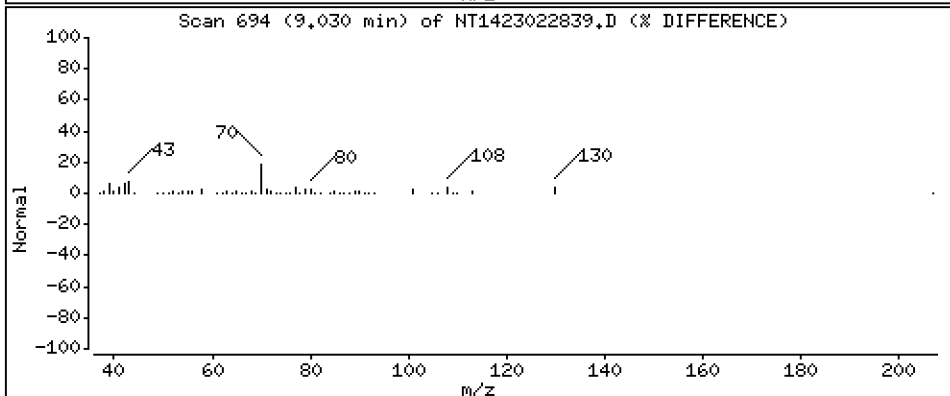
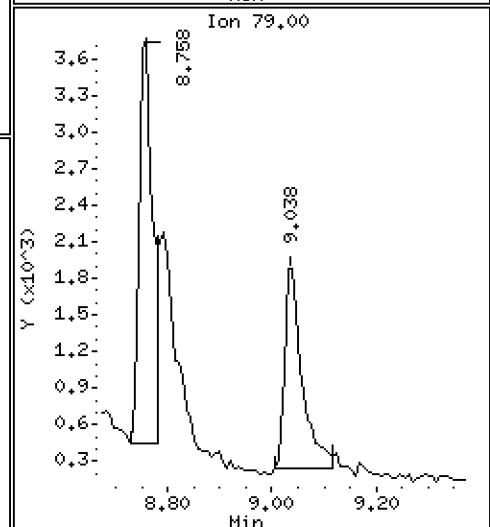
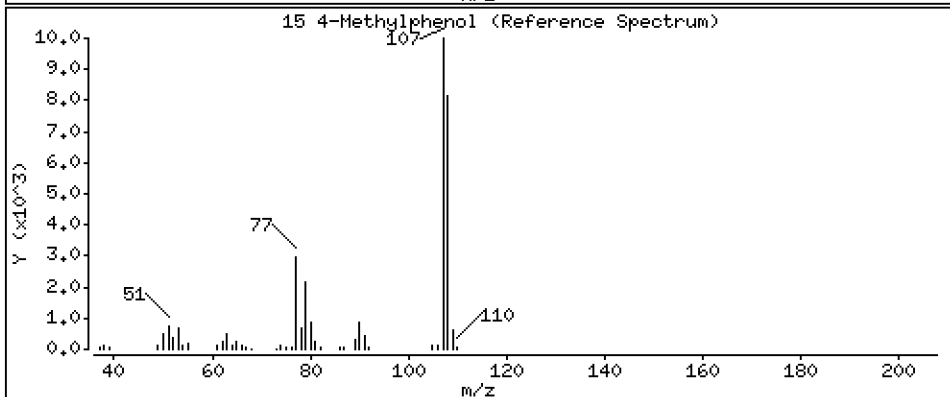
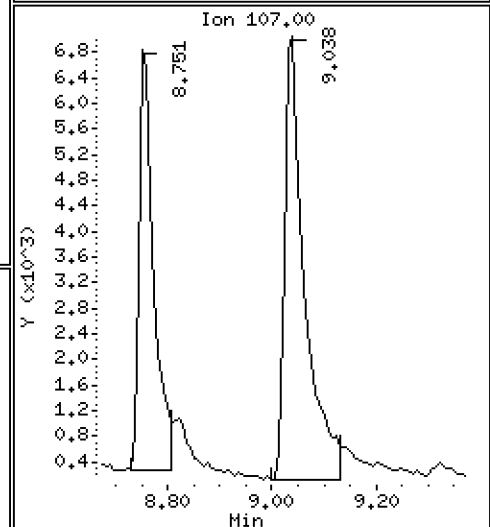
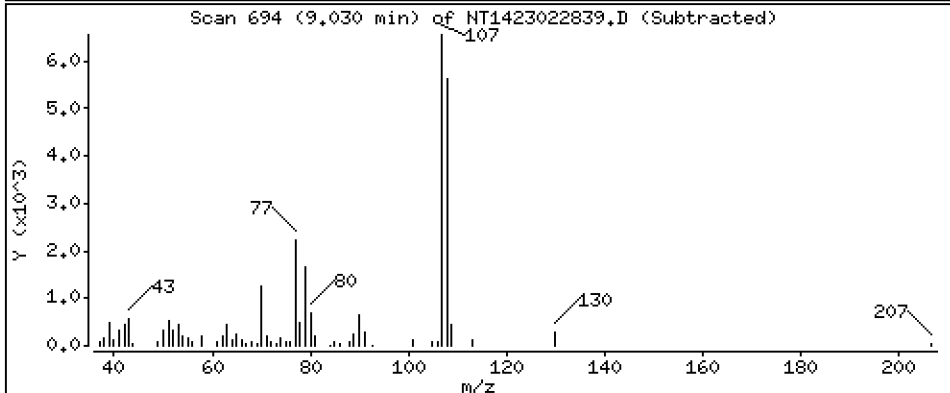
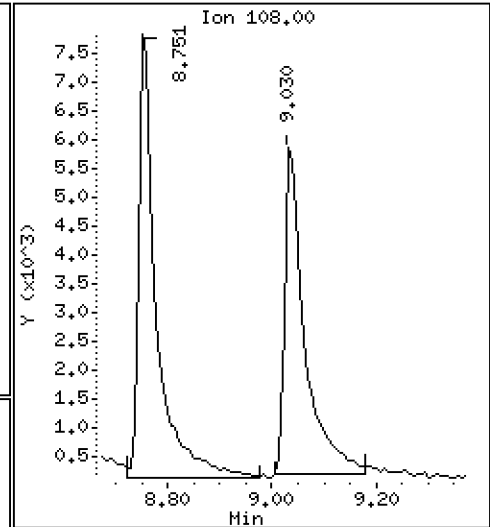
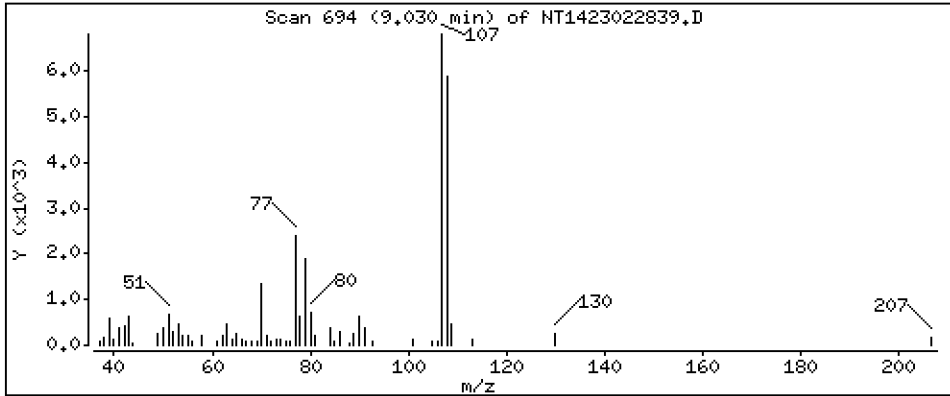
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.4047 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

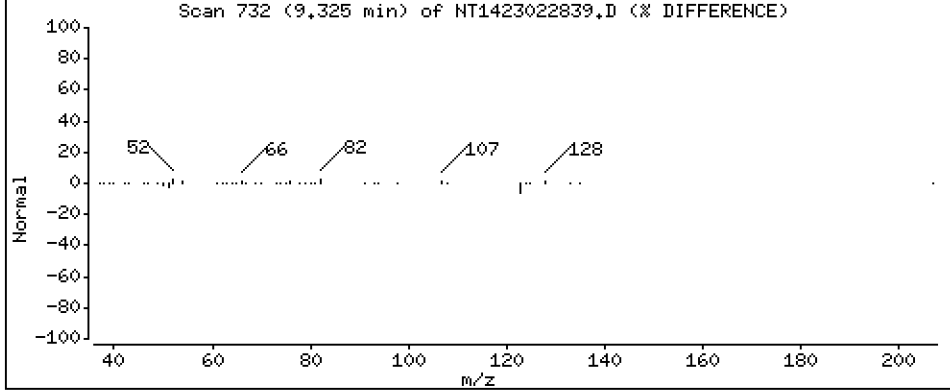
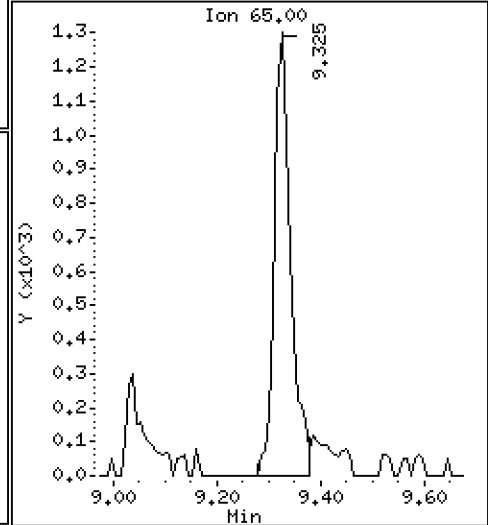
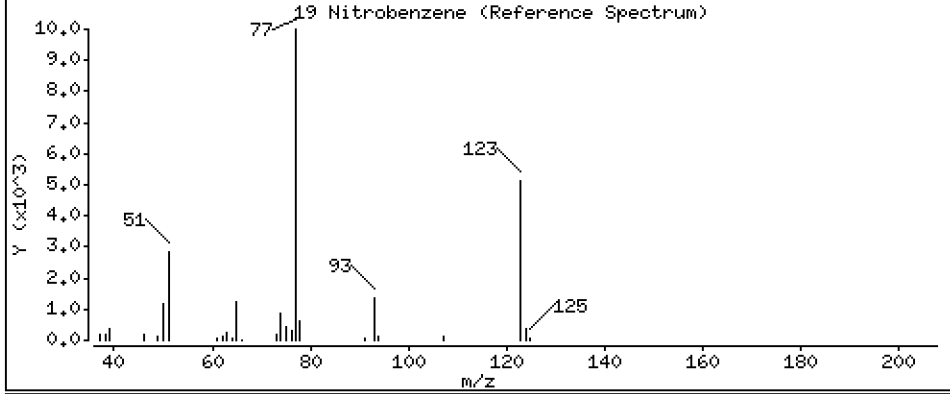
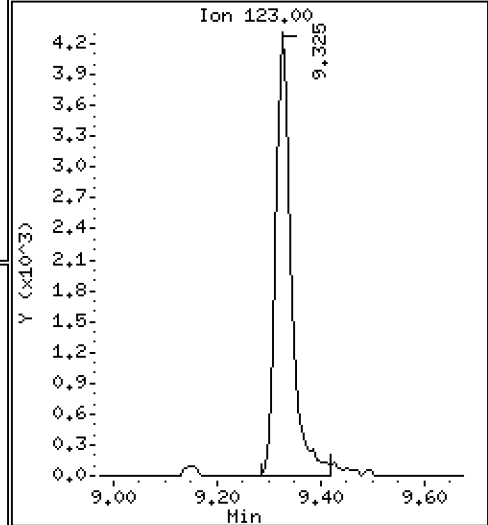
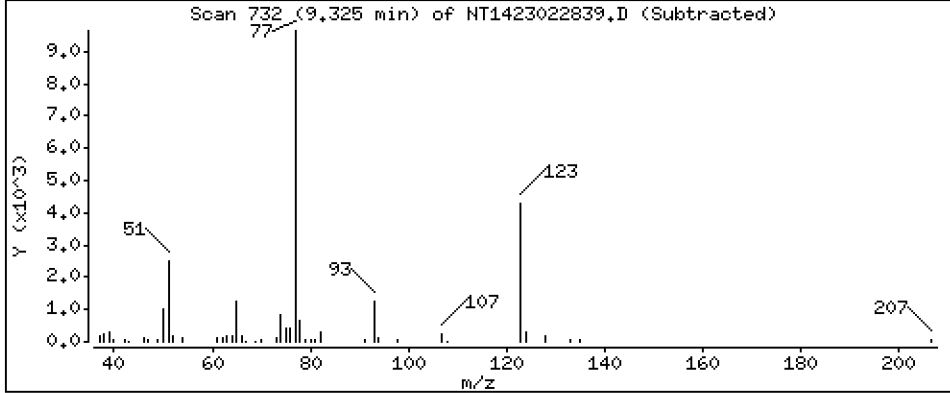
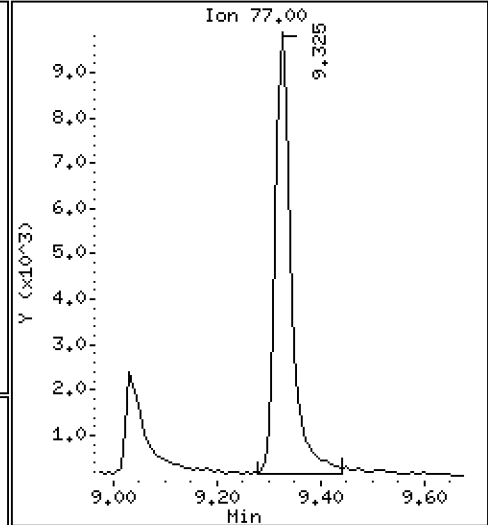
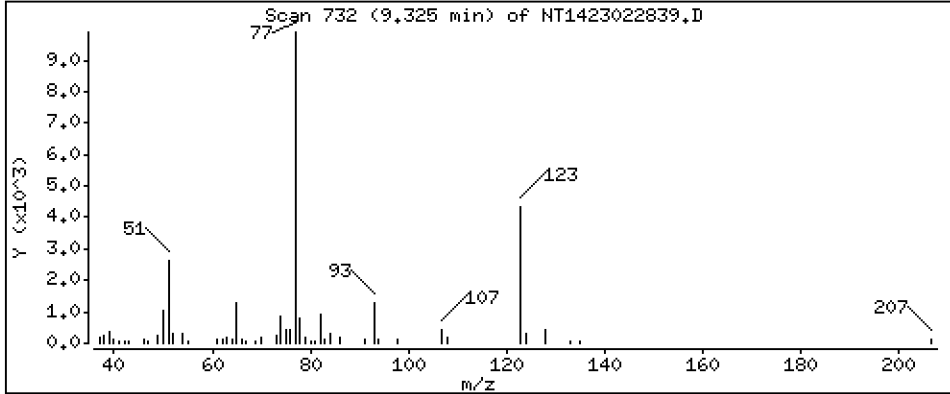
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,5354 ug/mL

19 Nitrobenzene



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

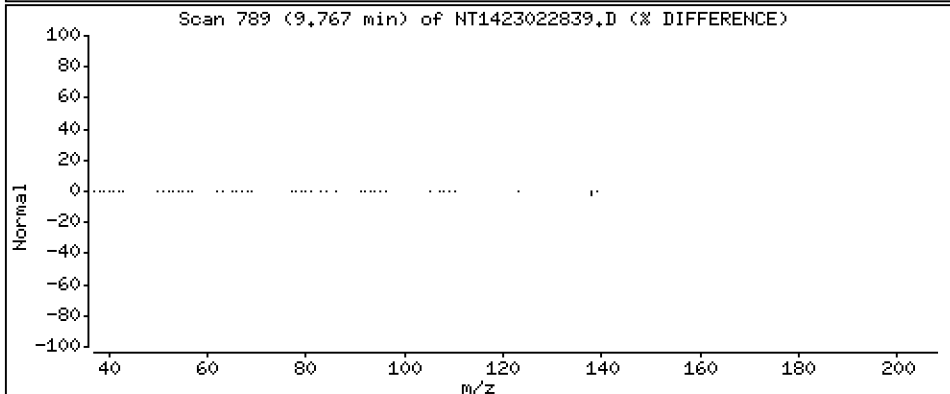
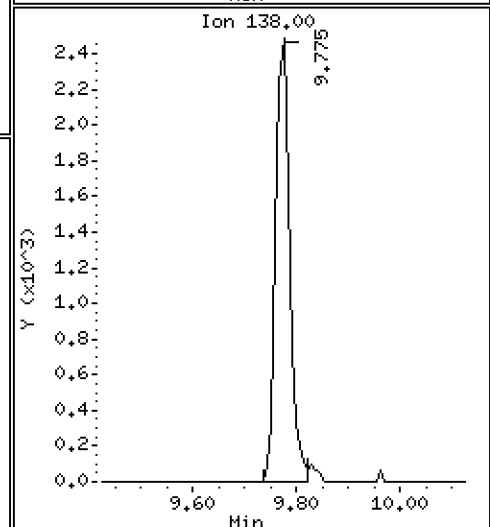
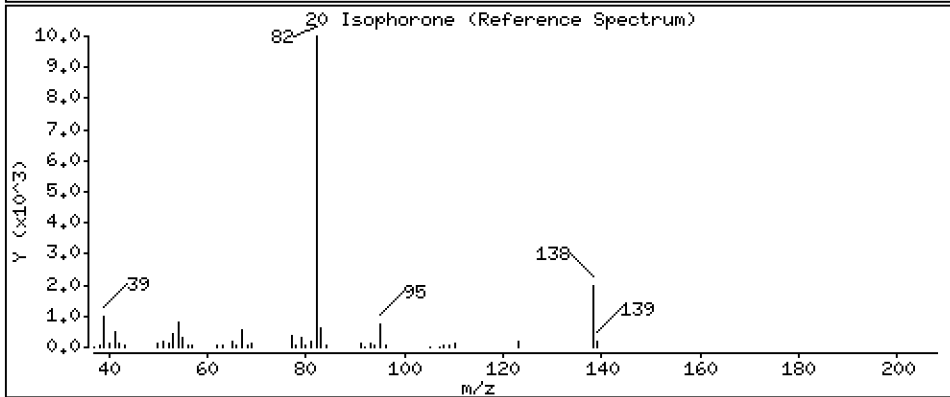
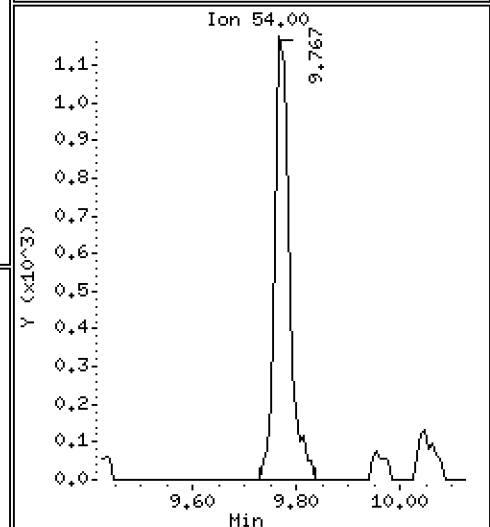
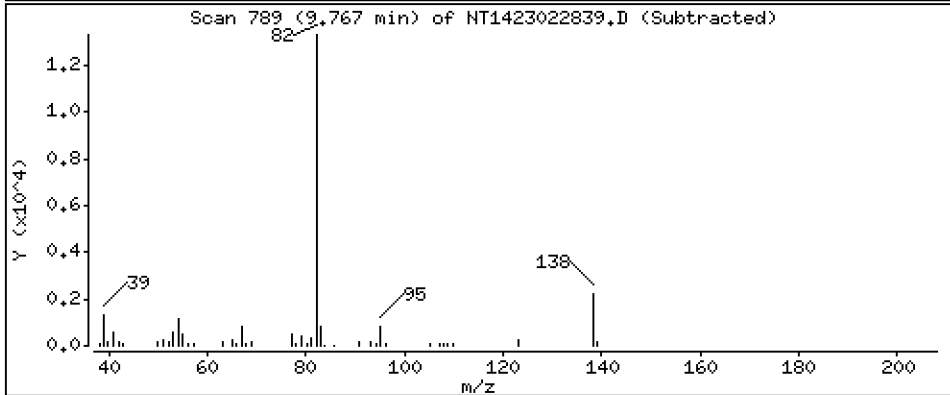
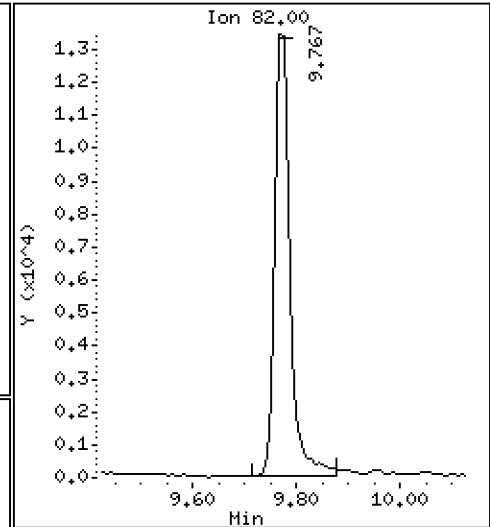
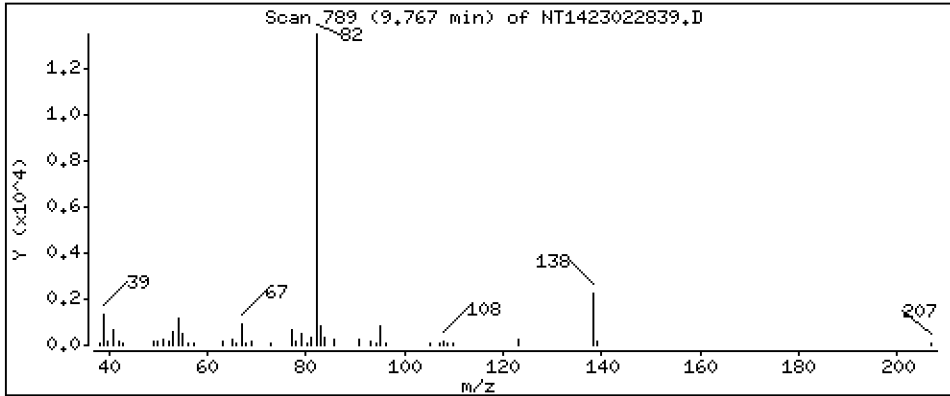
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.4431 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

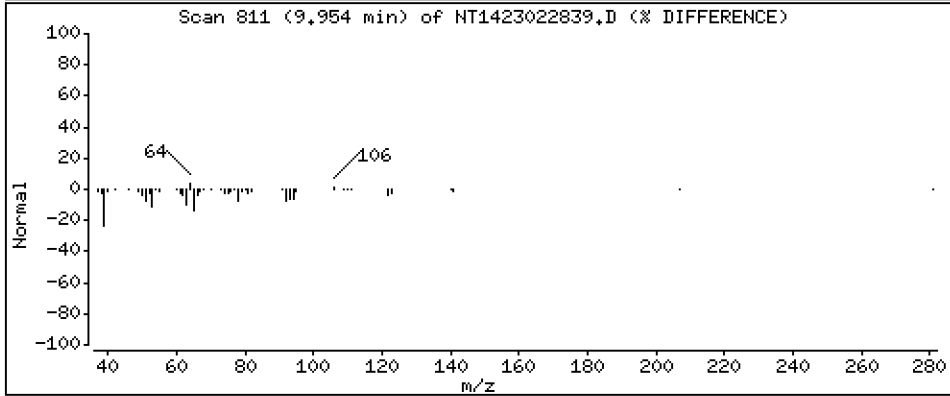
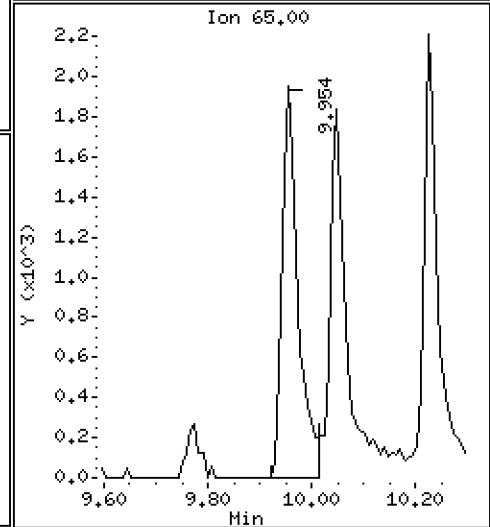
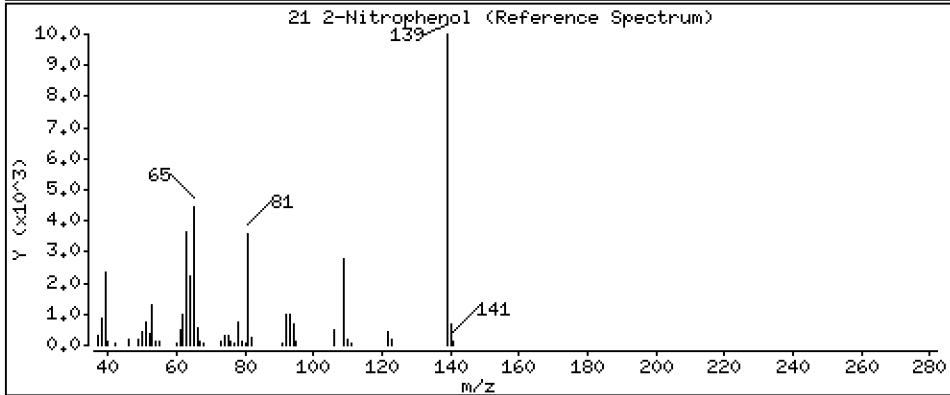
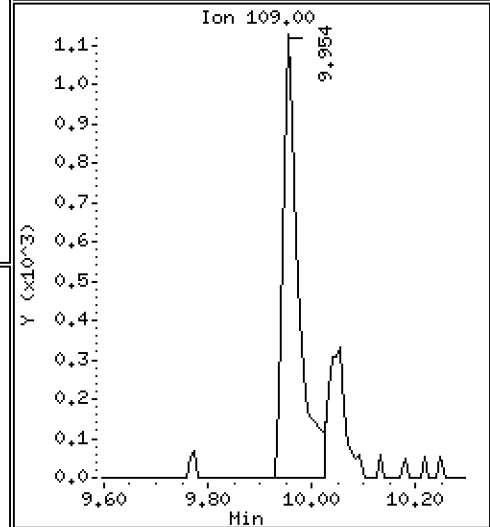
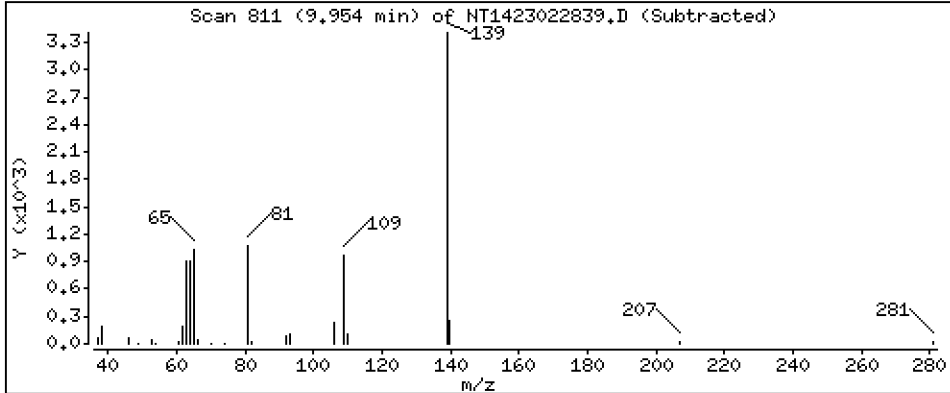
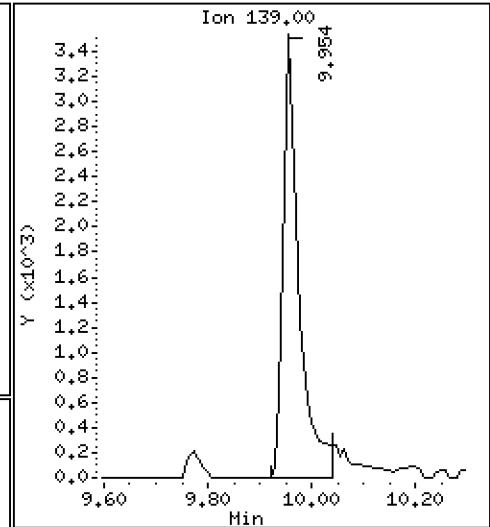
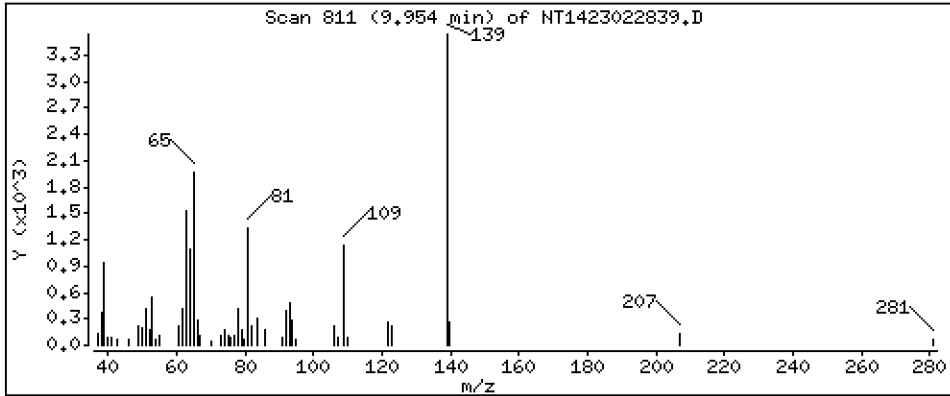
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,3848 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

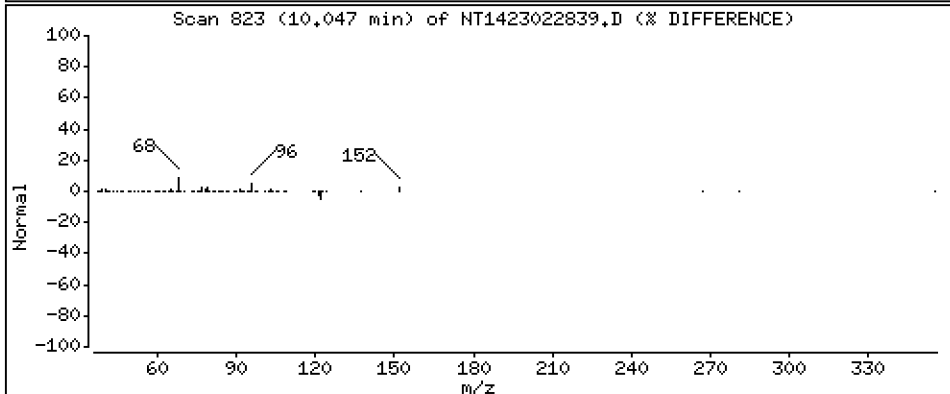
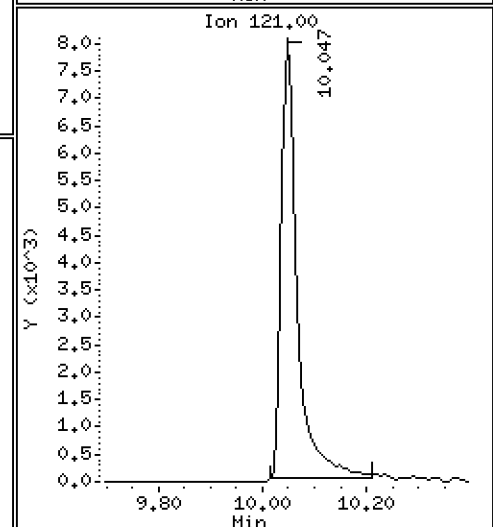
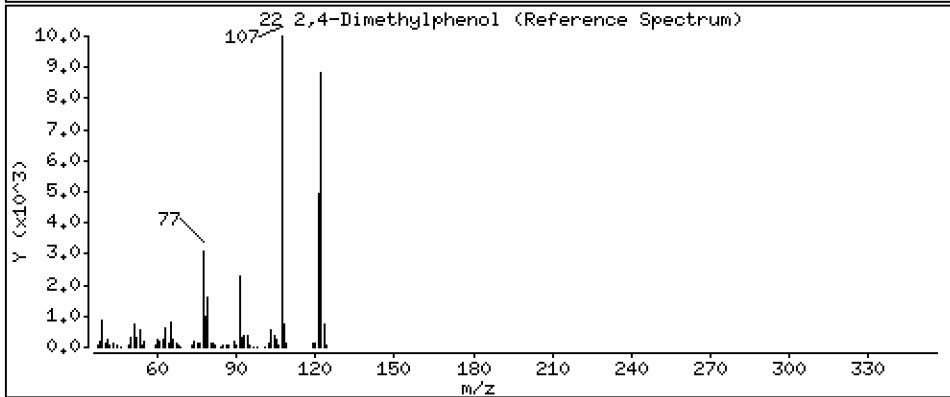
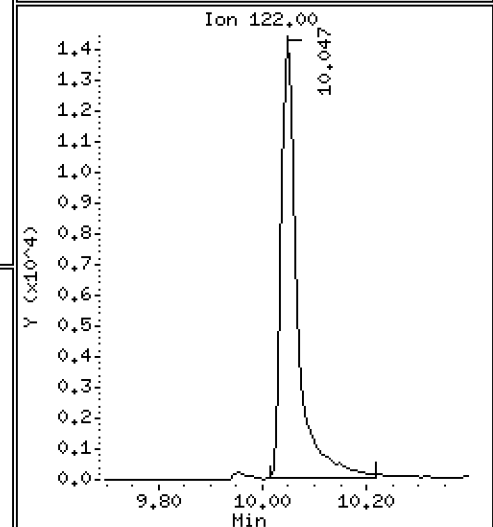
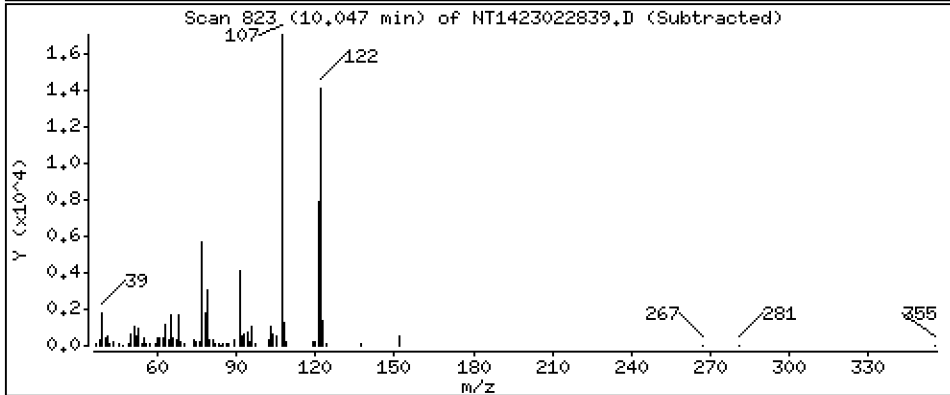
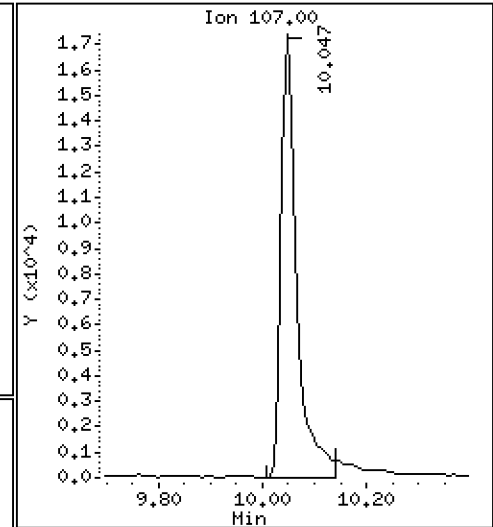
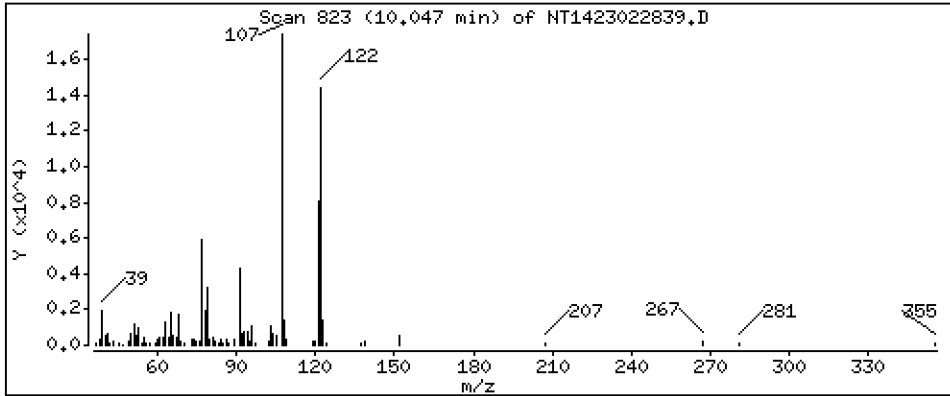
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 1,025 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

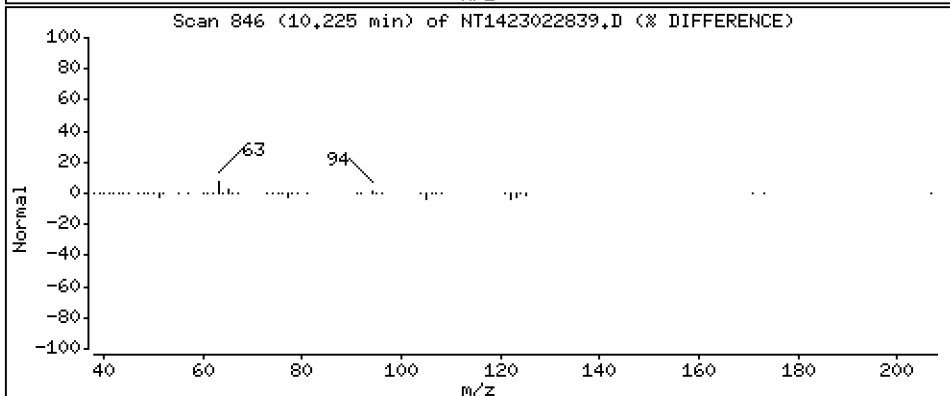
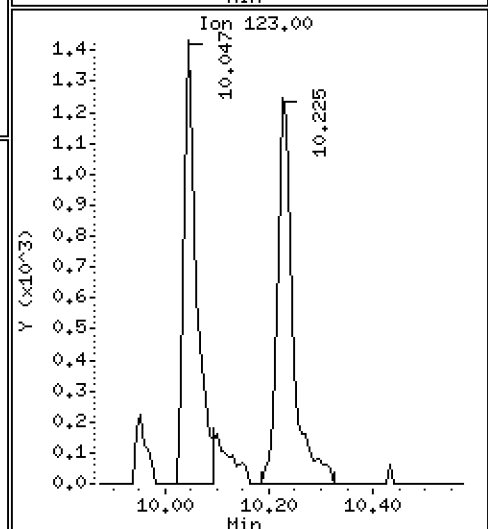
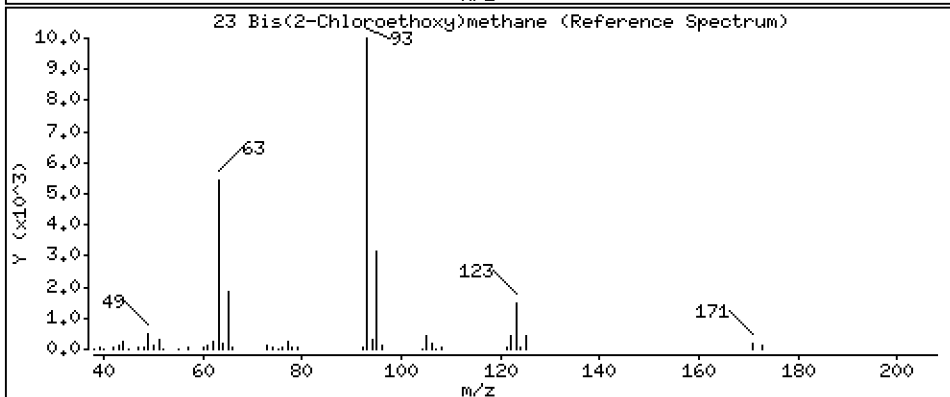
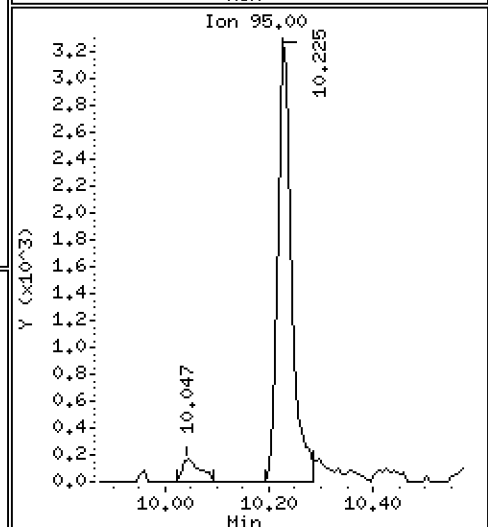
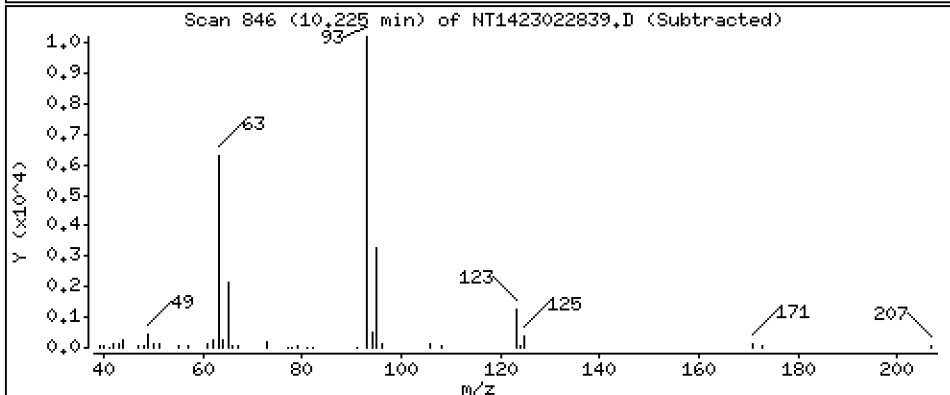
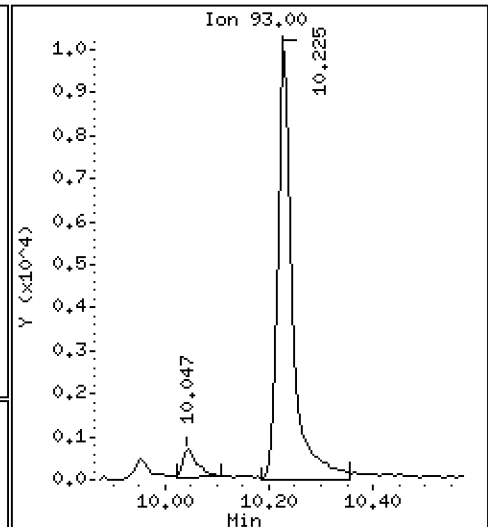
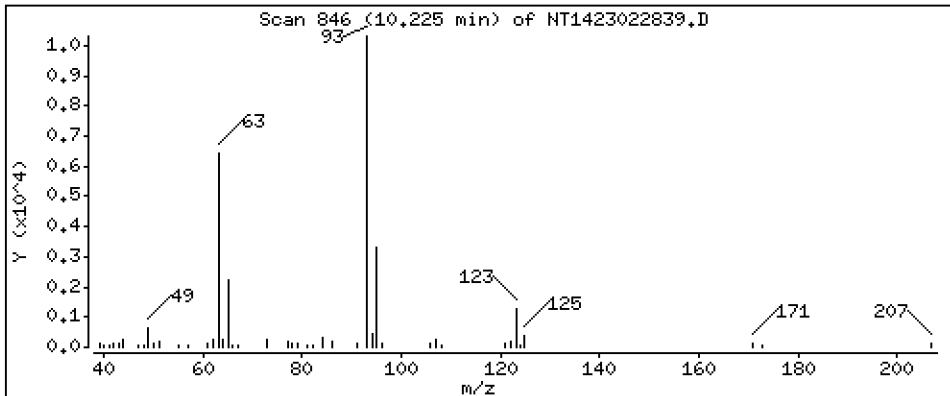
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 0.5299 ug/mL





Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

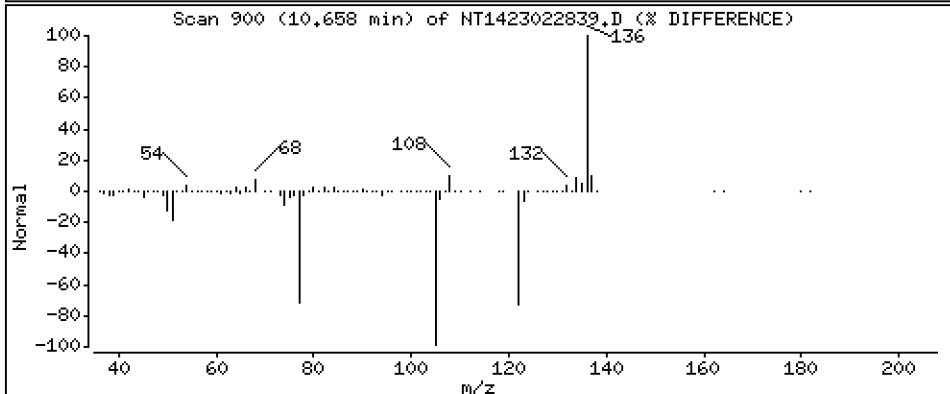
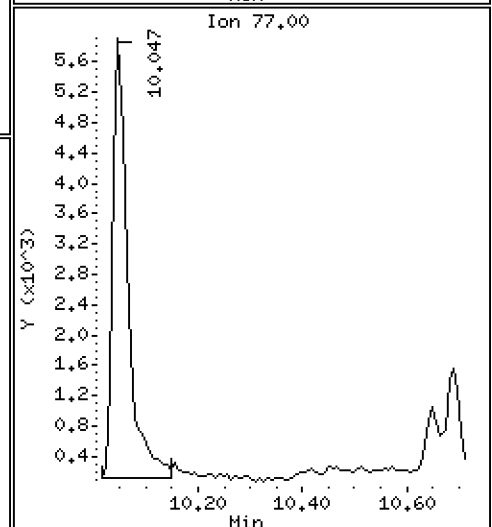
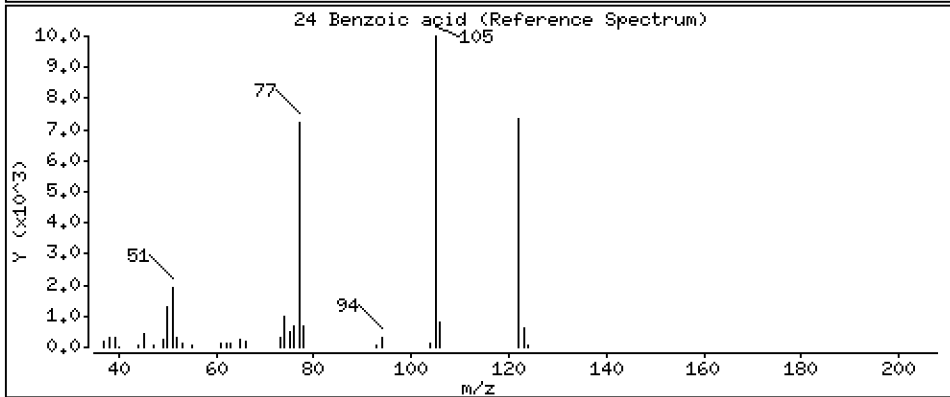
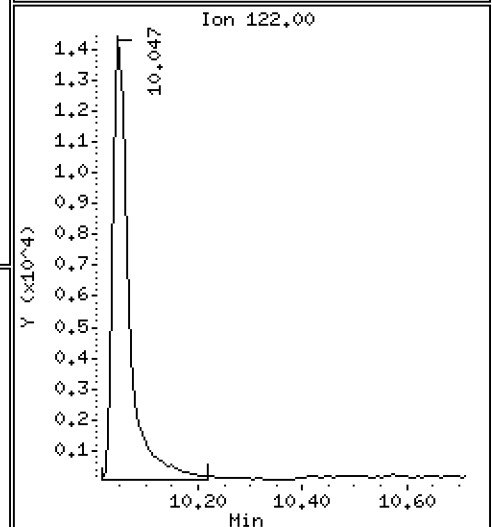
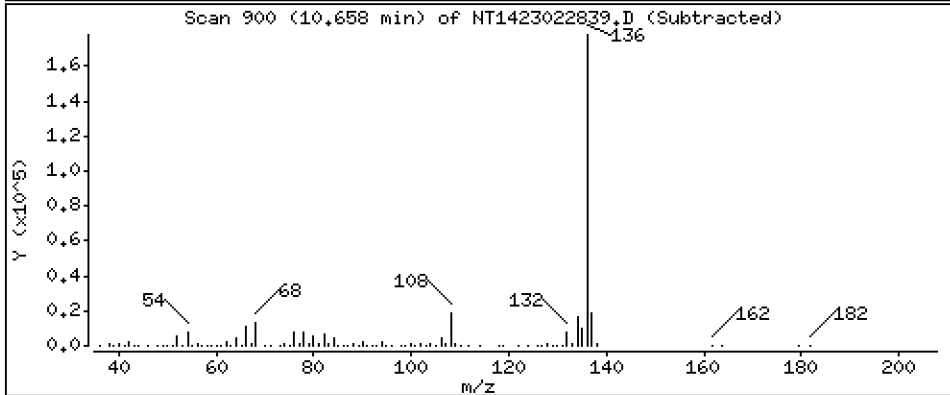
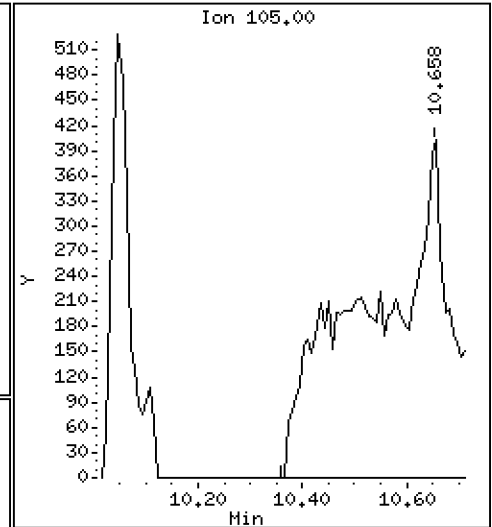
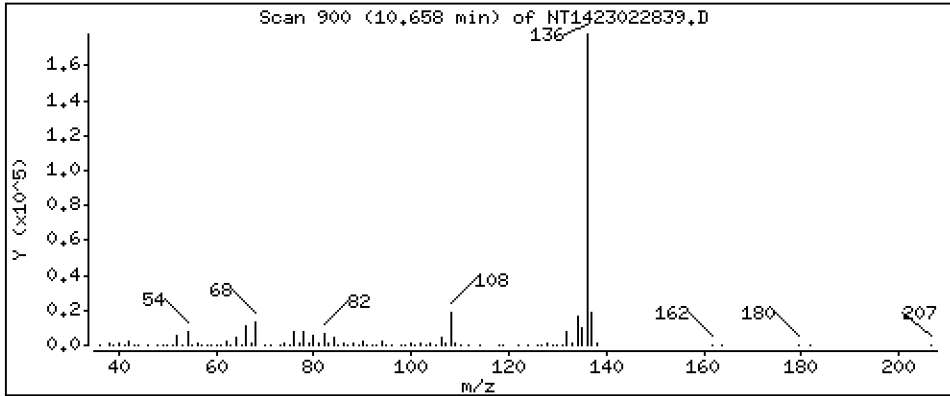
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.9092 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

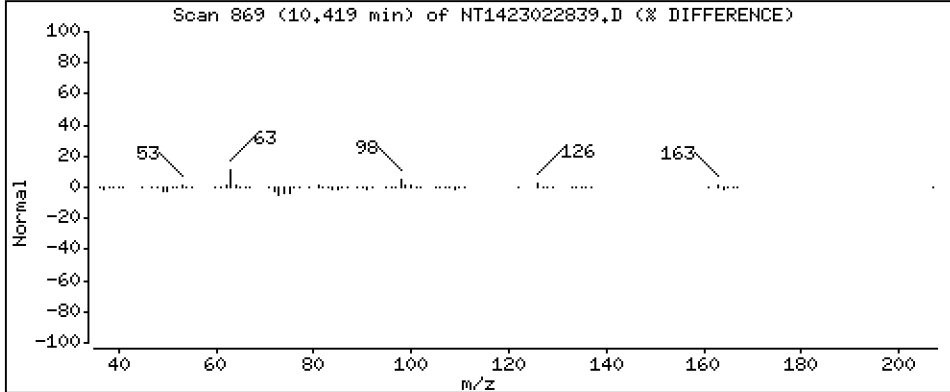
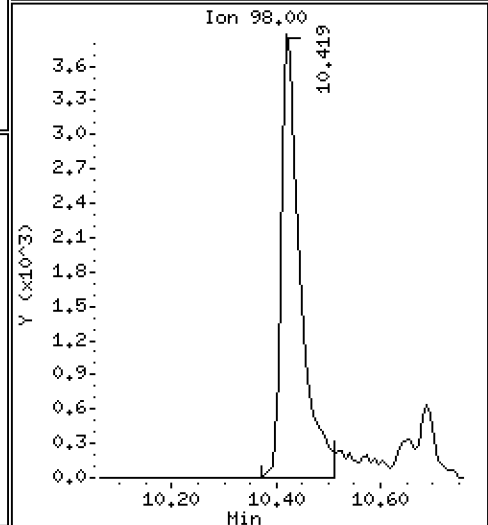
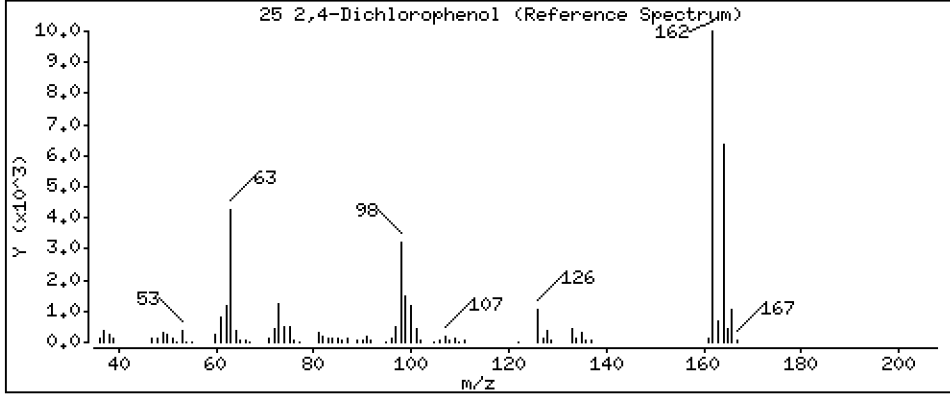
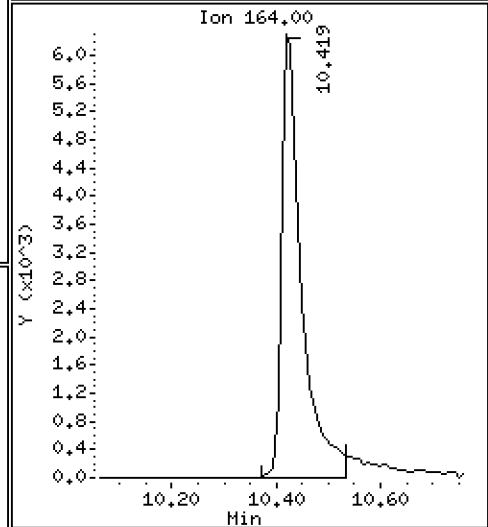
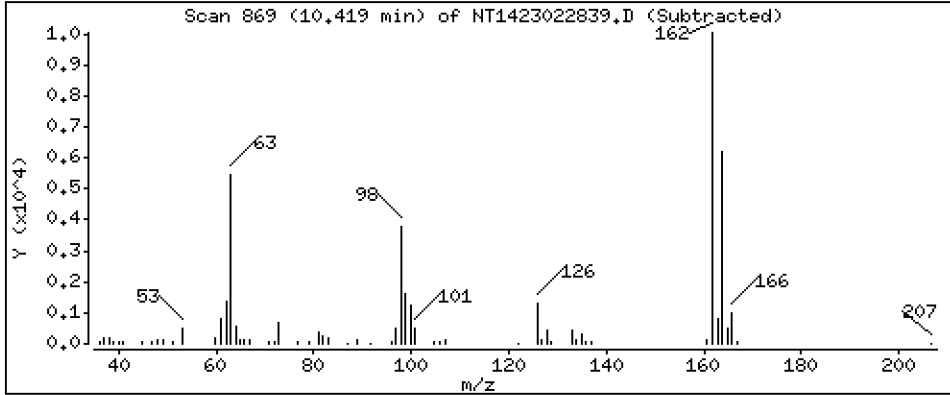
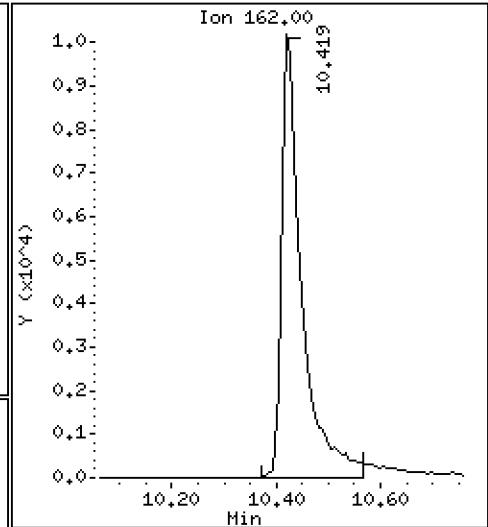
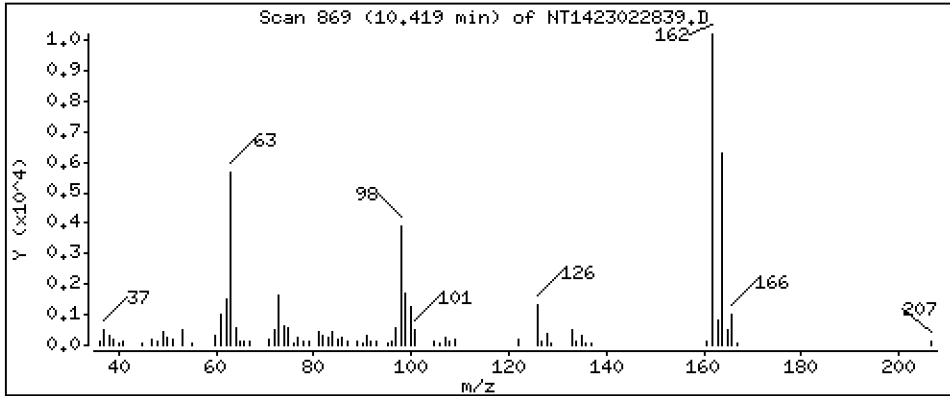
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,8740 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

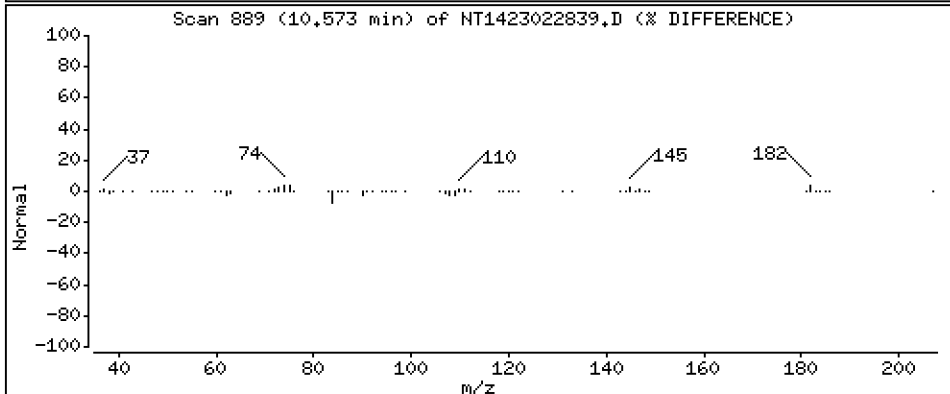
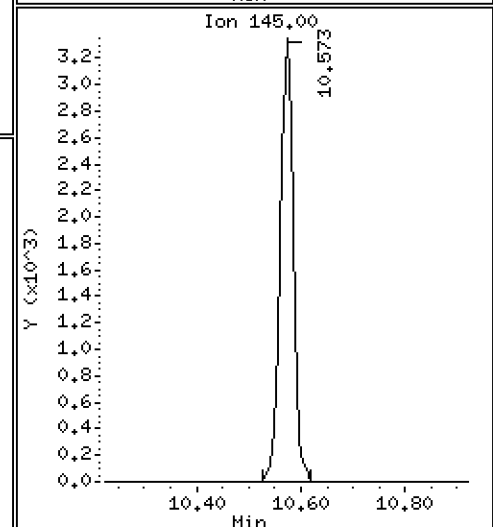
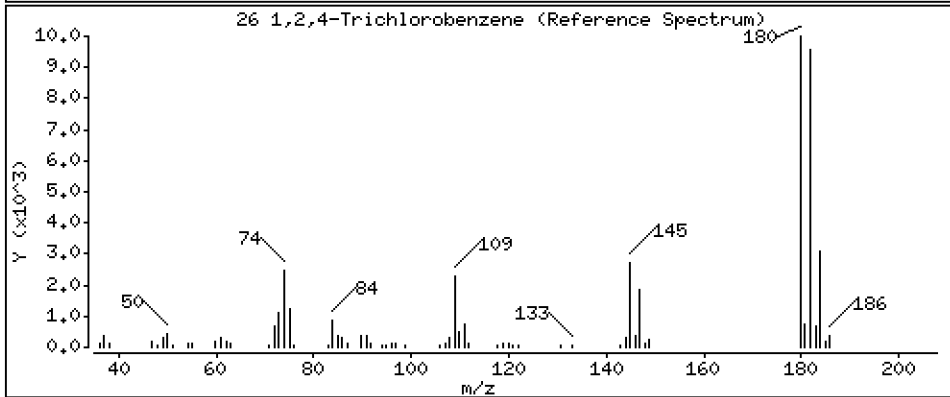
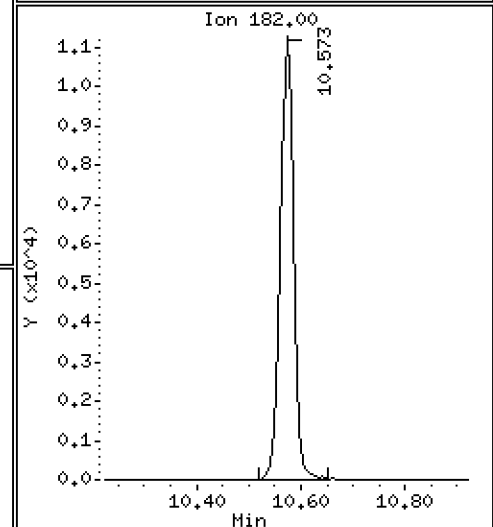
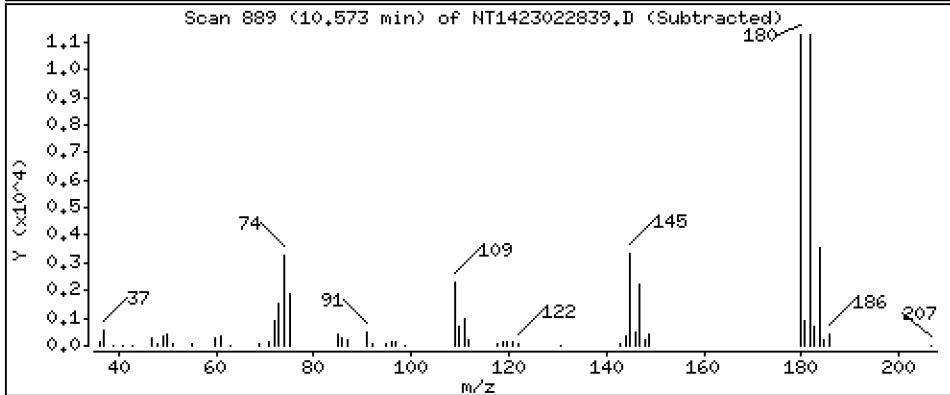
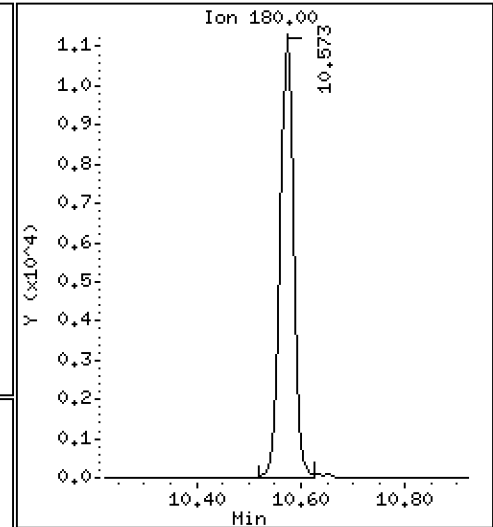
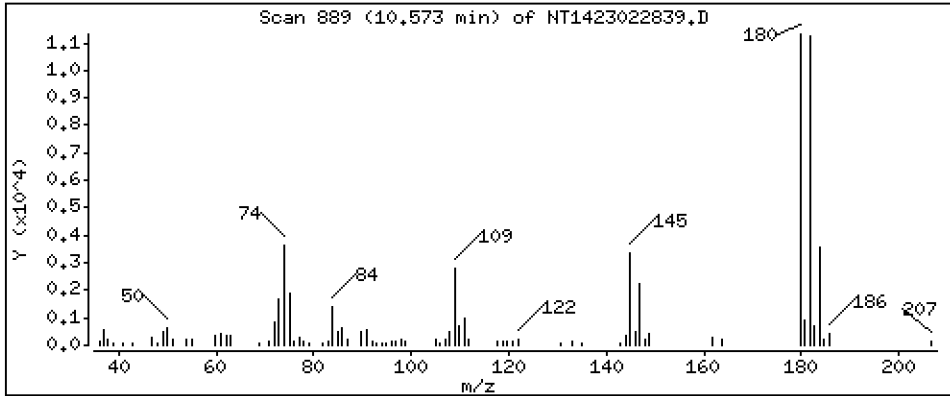
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,4967 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

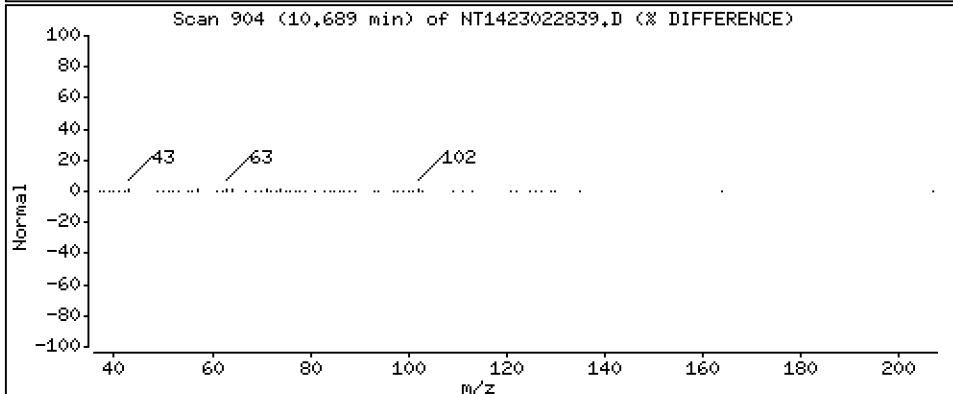
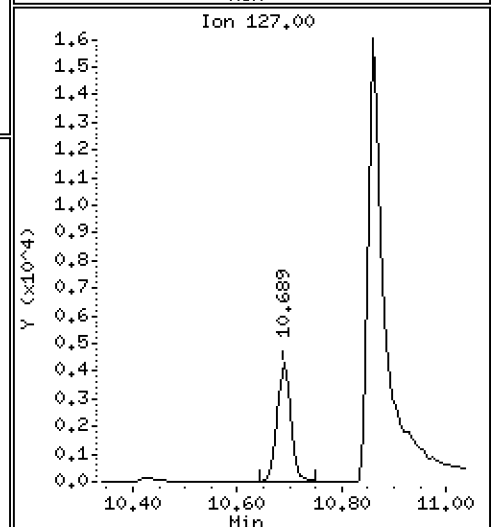
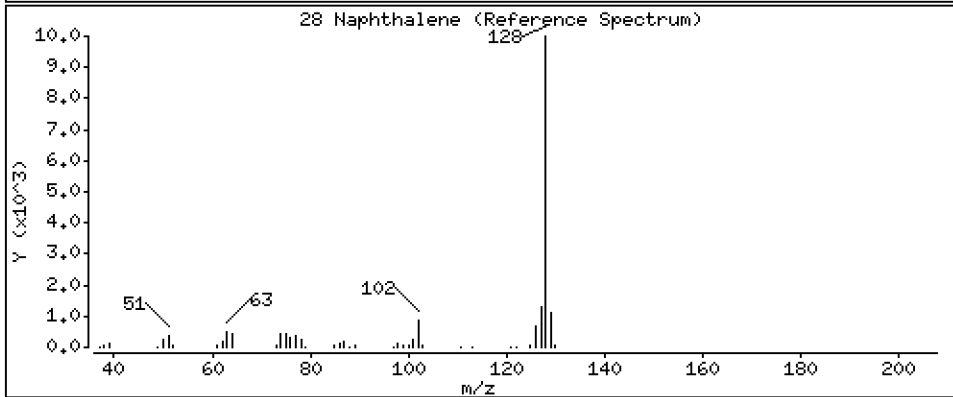
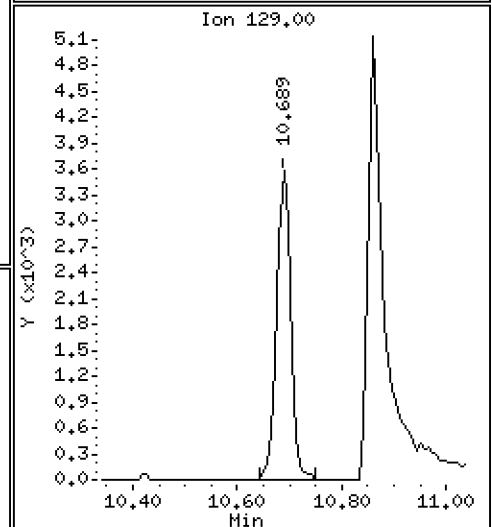
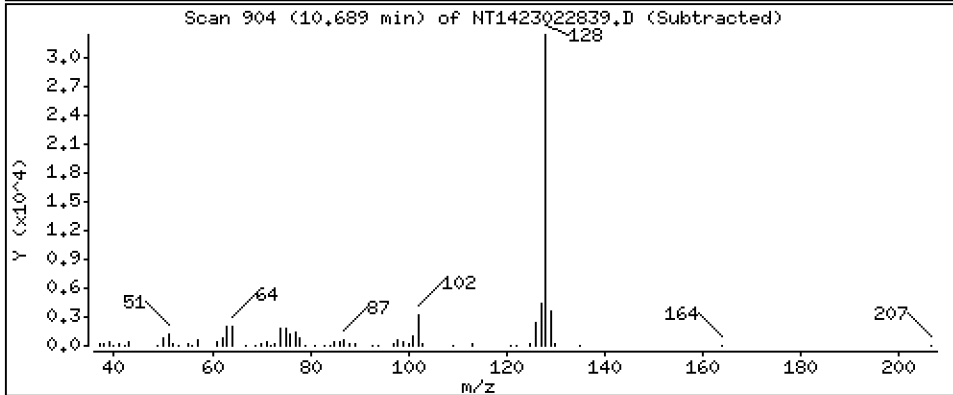
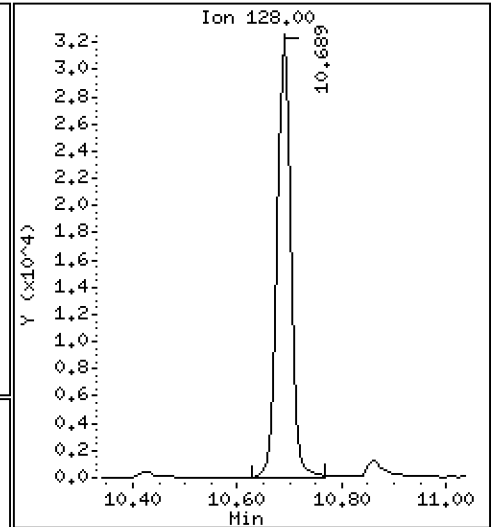
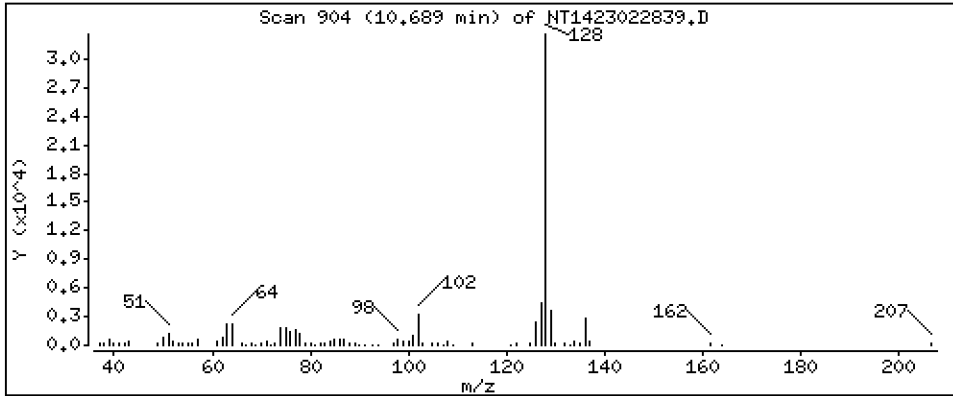
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,5257 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

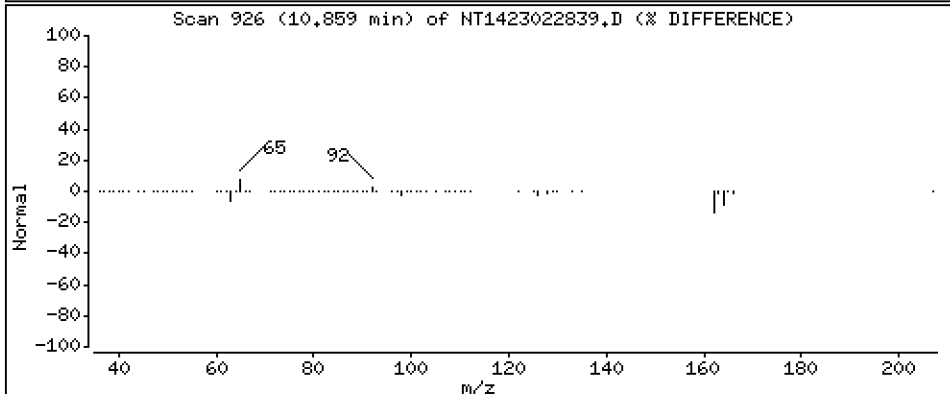
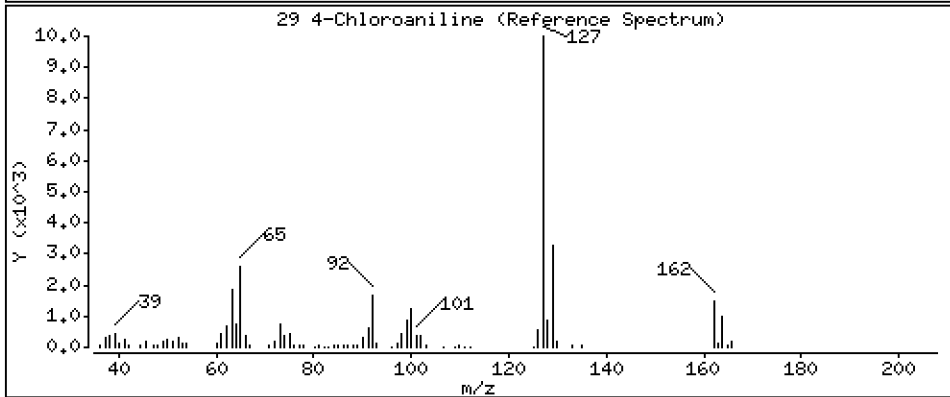
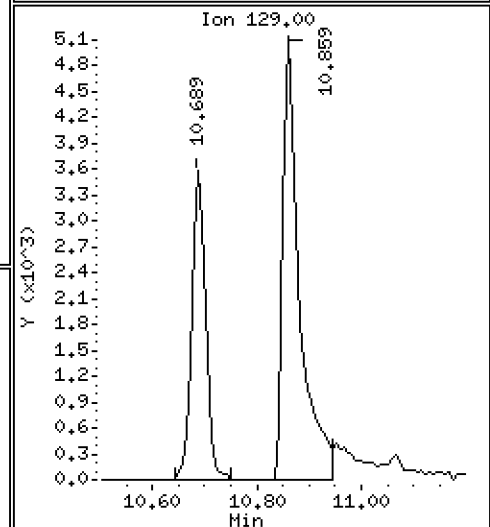
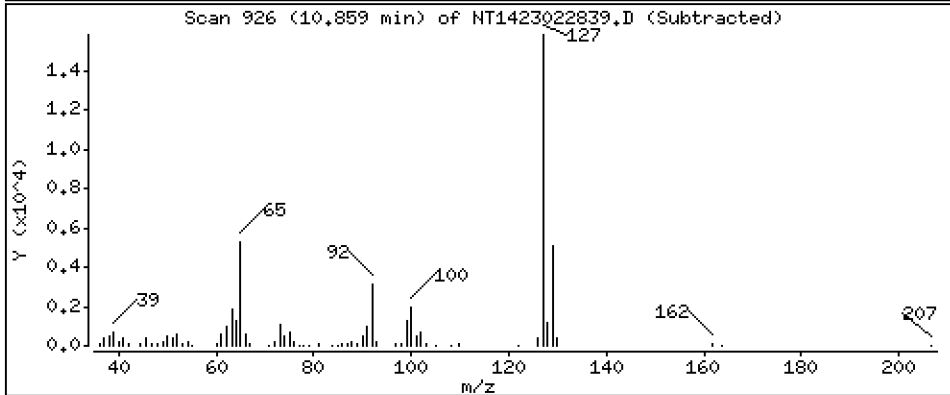
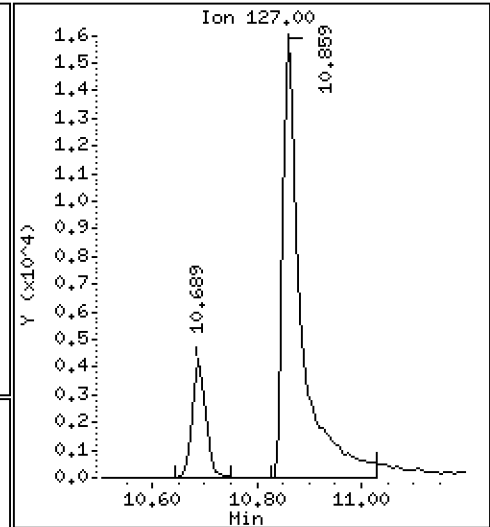
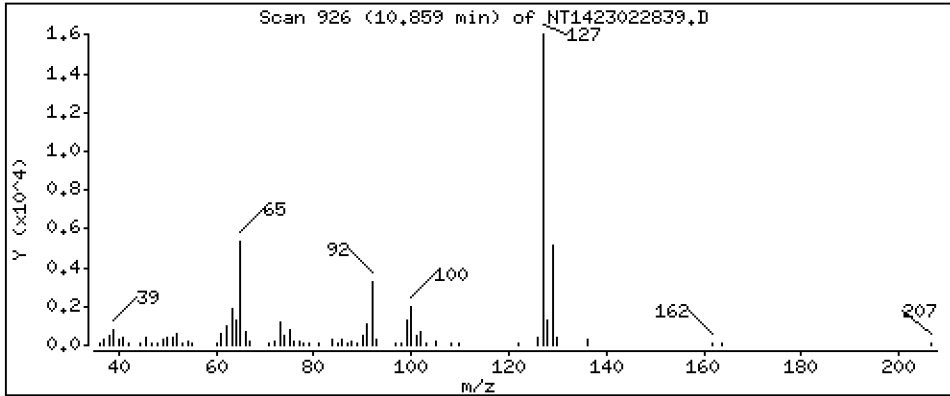
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,8967 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

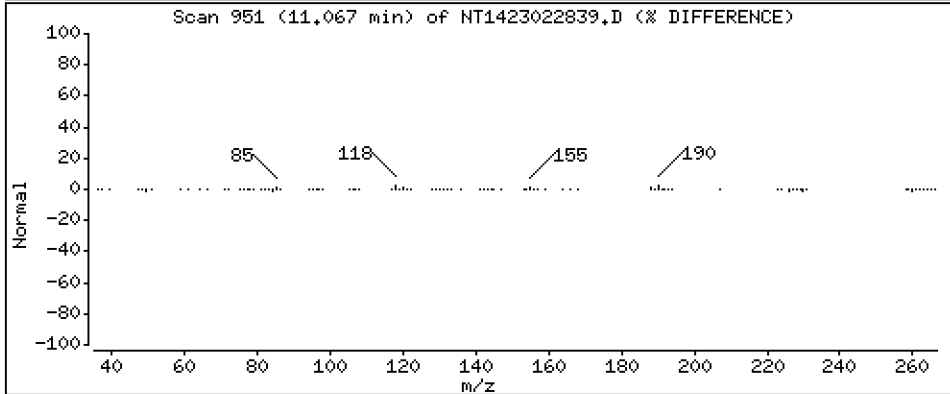
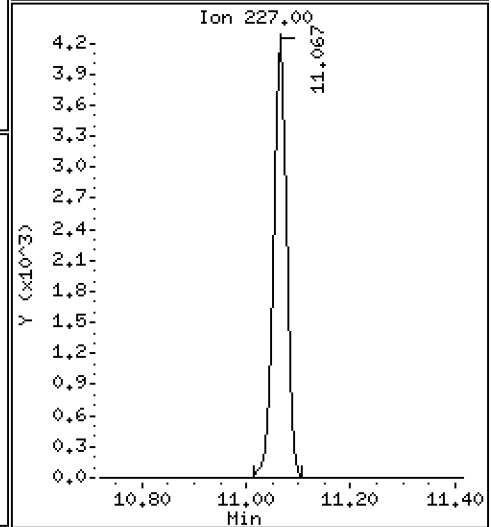
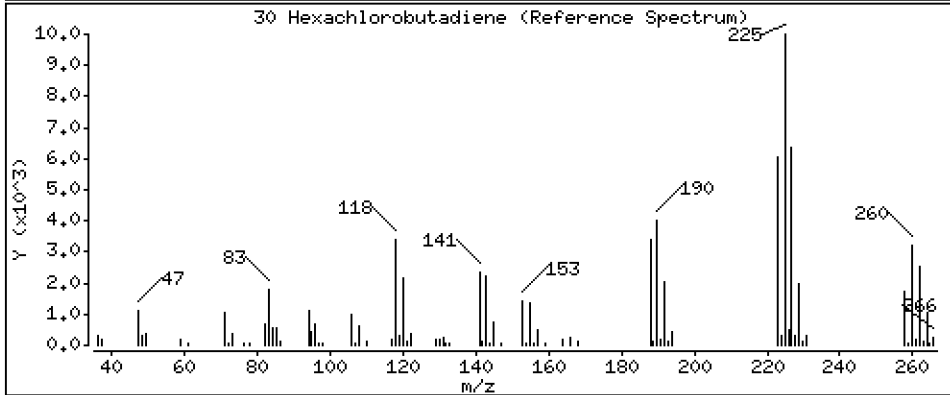
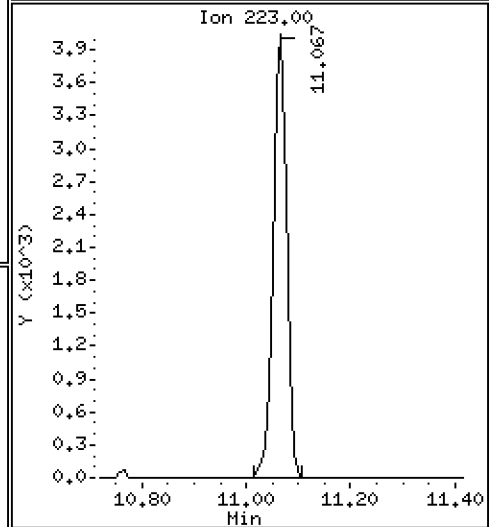
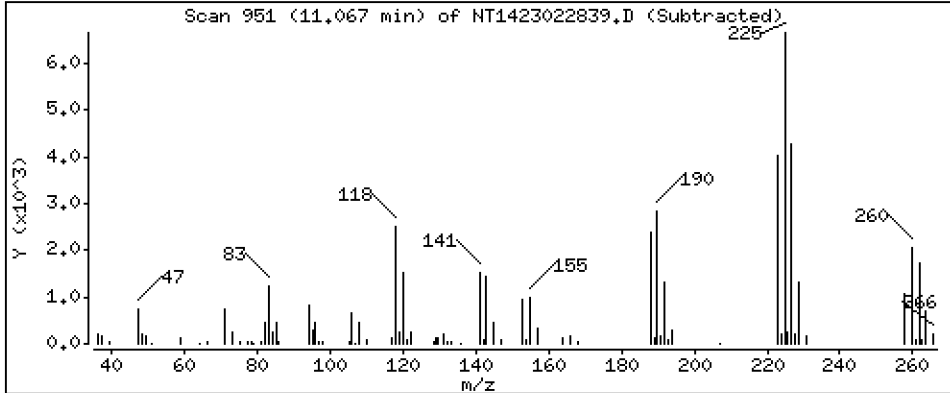
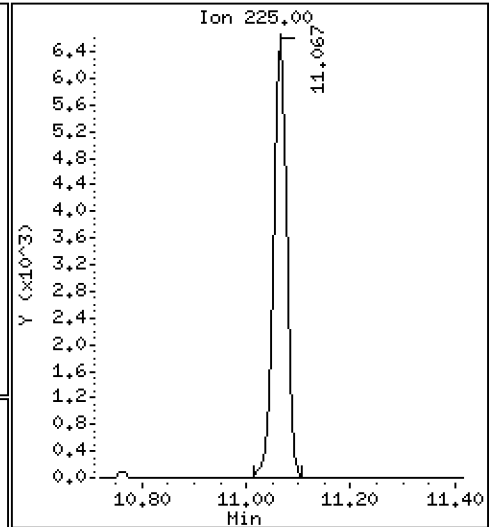
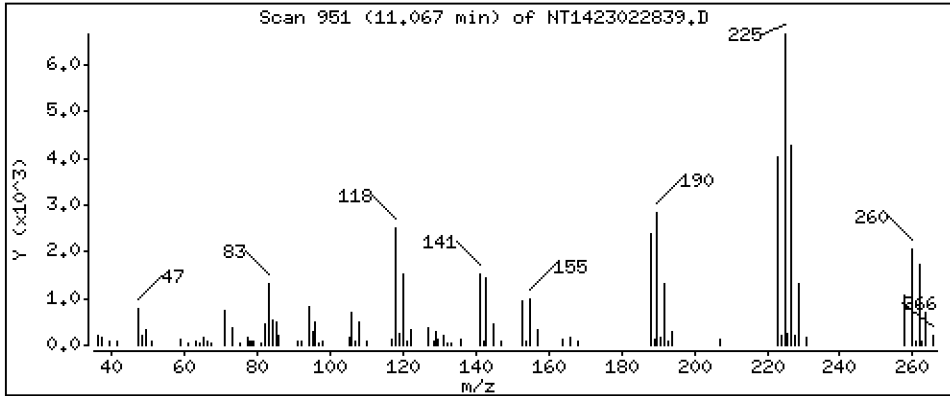
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,4614 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

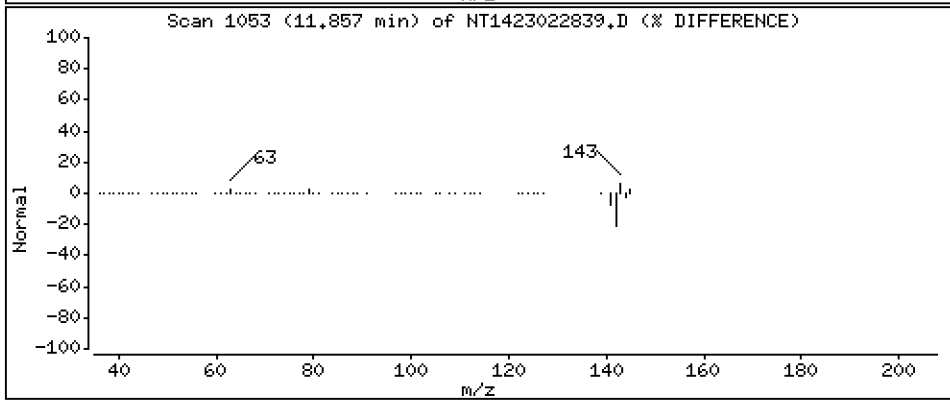
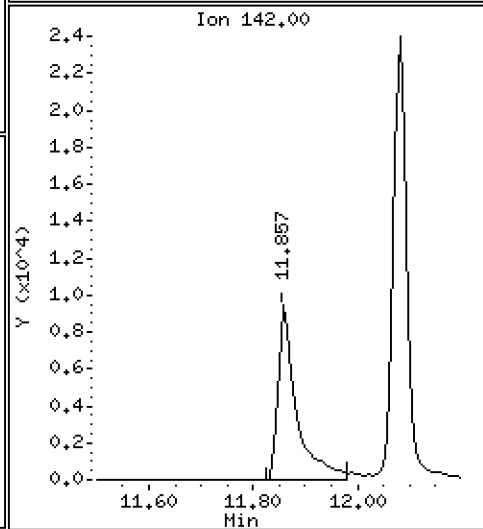
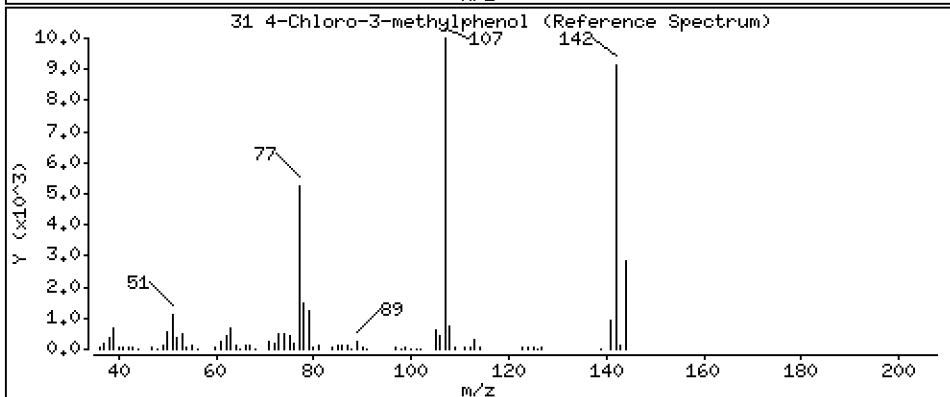
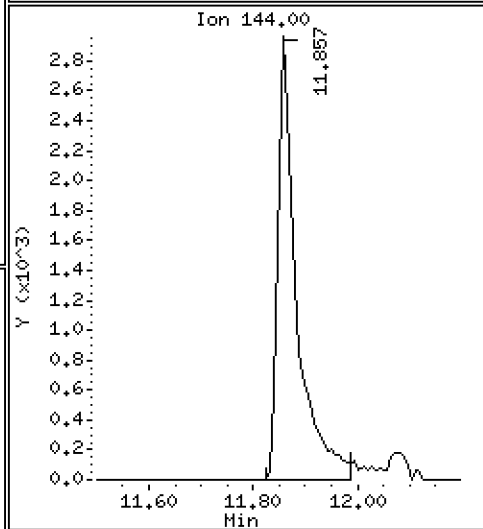
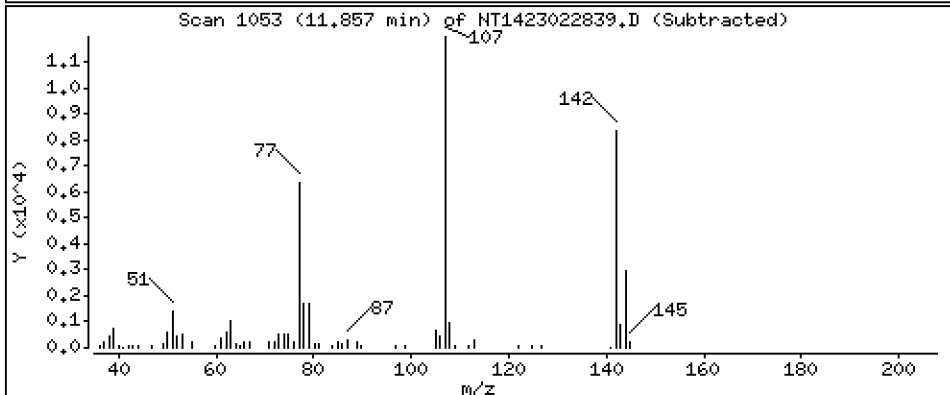
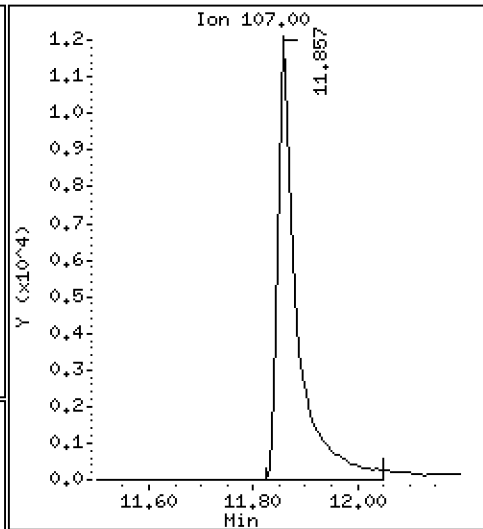
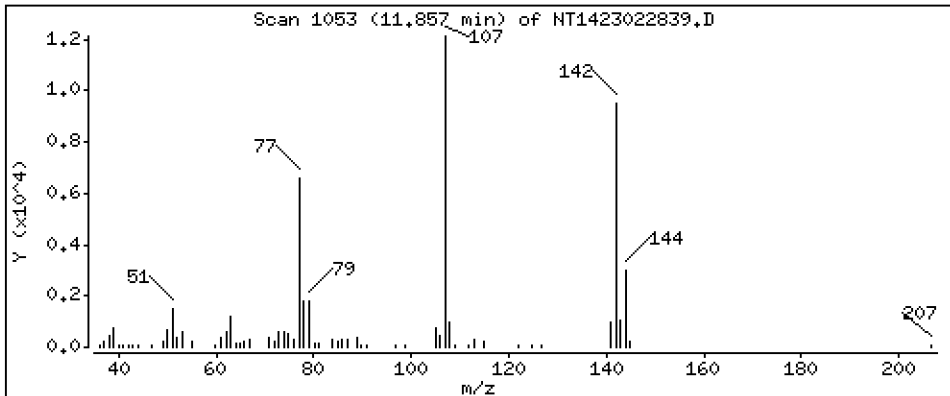
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 0.9960 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

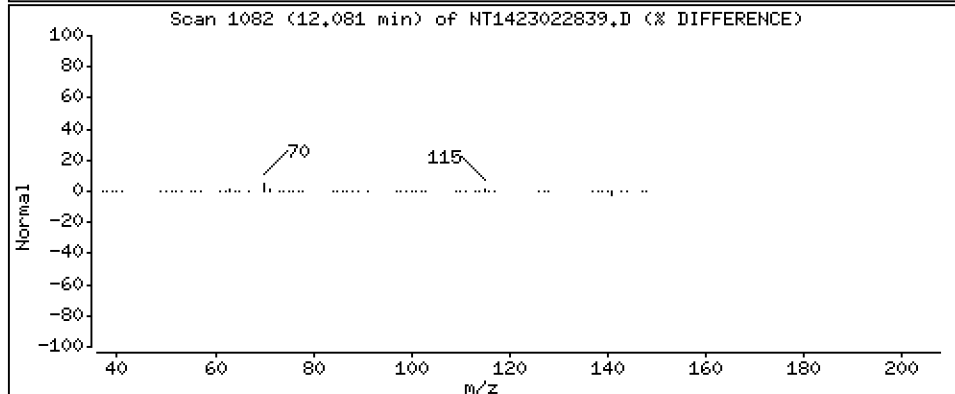
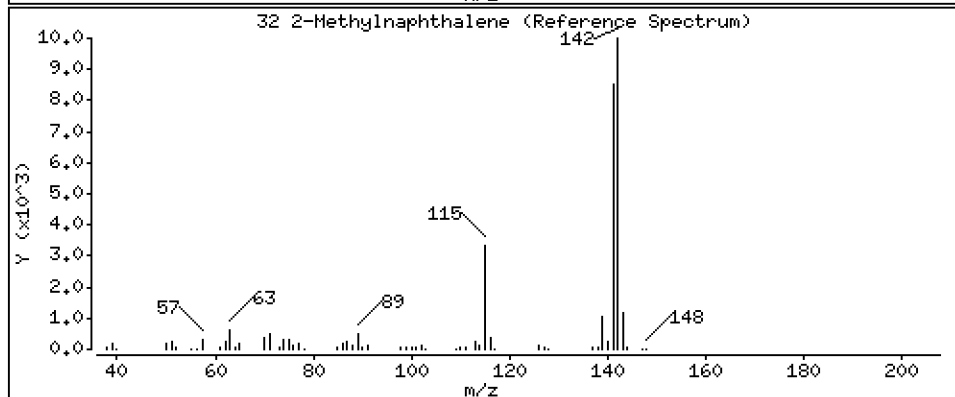
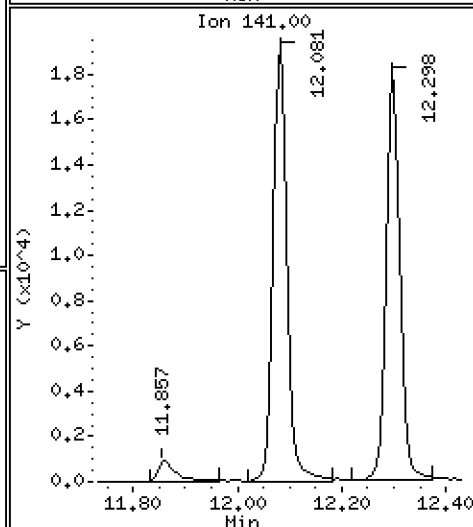
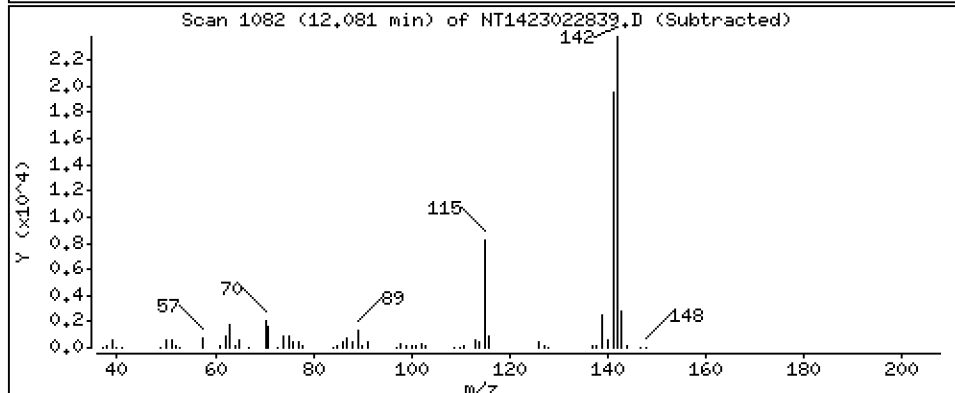
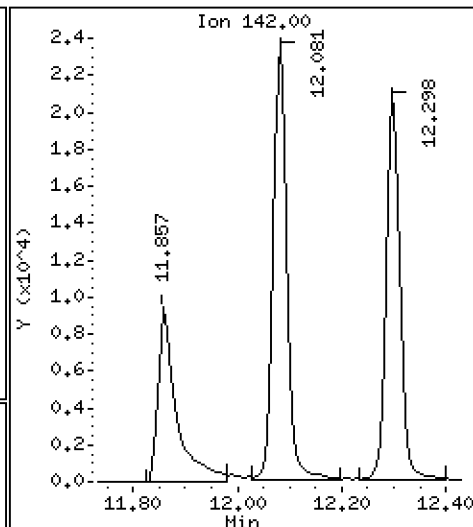
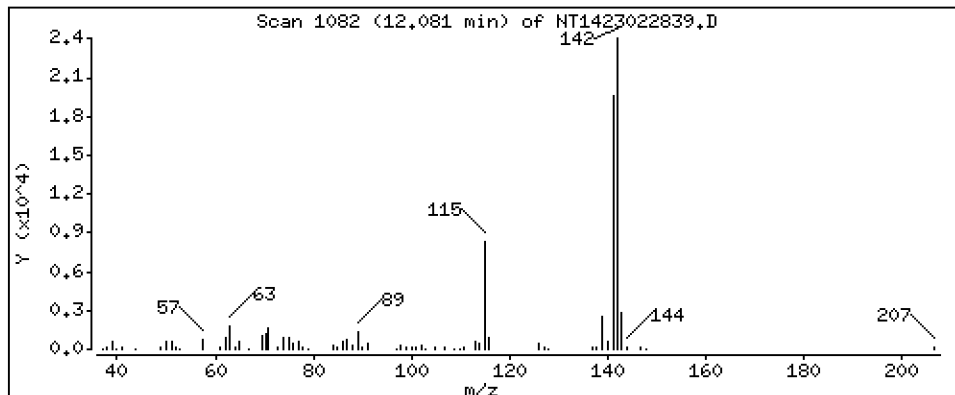
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,5142 ug/mL





Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

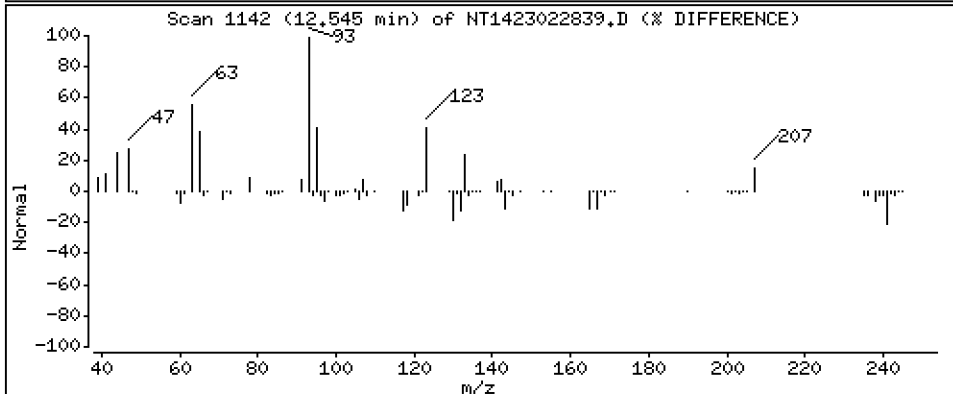
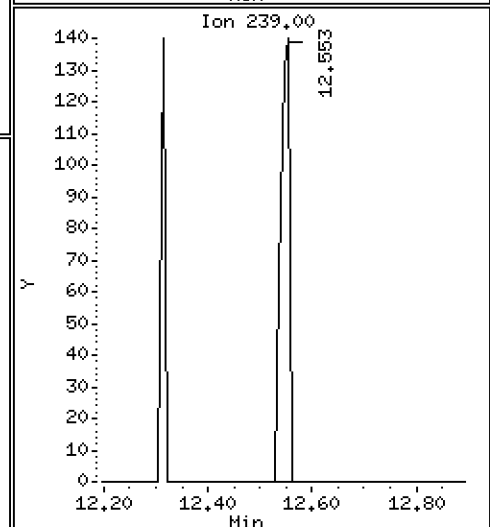
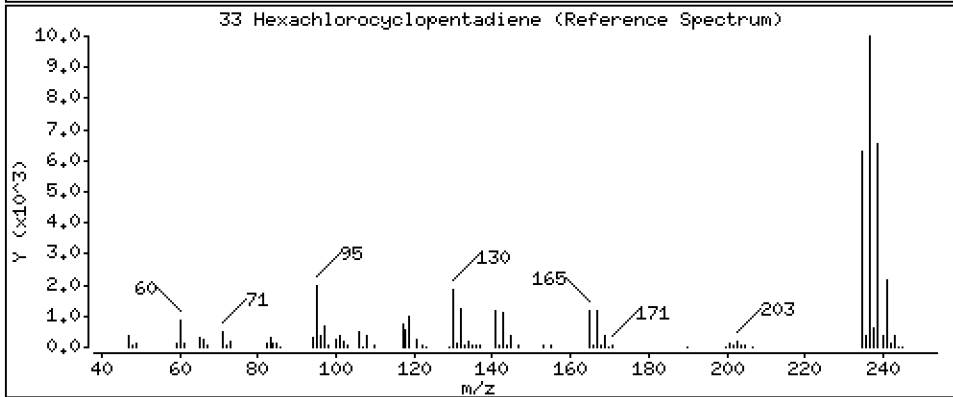
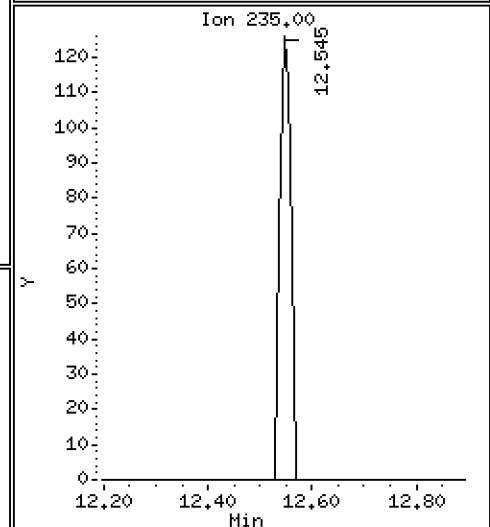
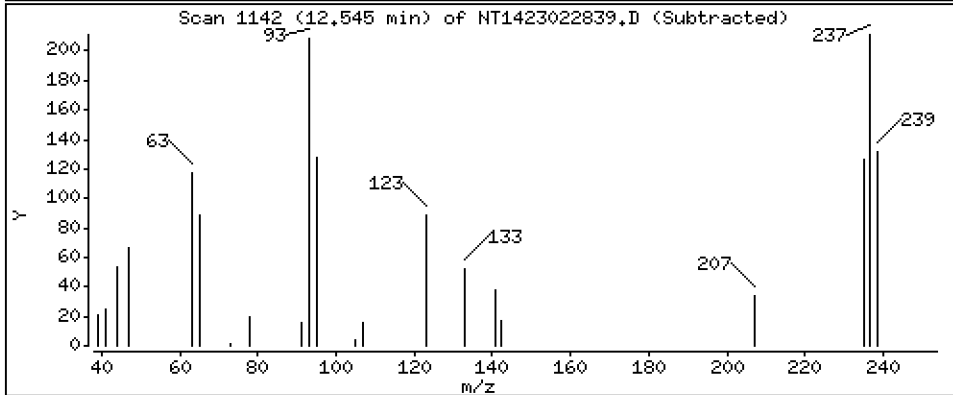
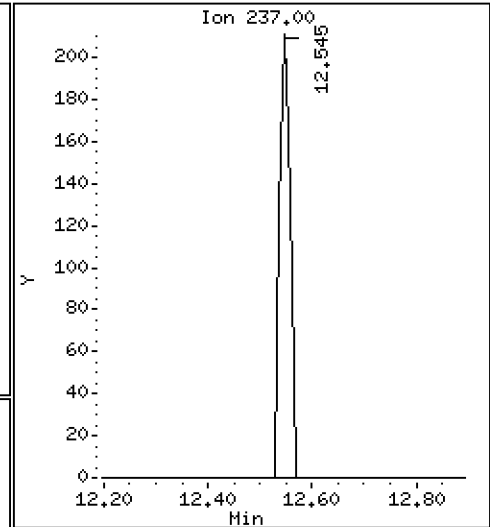
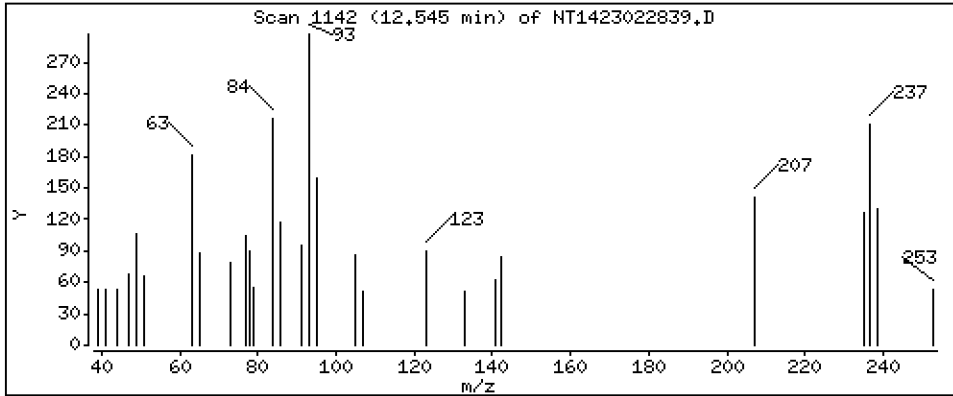
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,01142 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

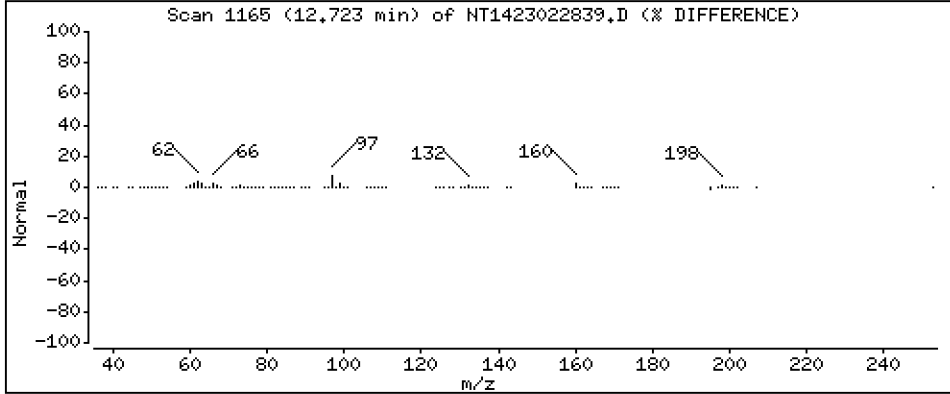
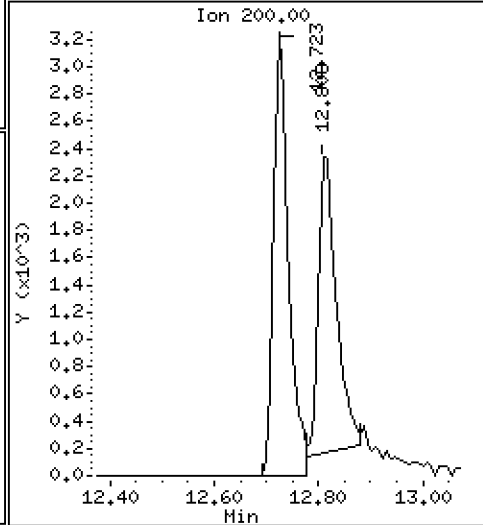
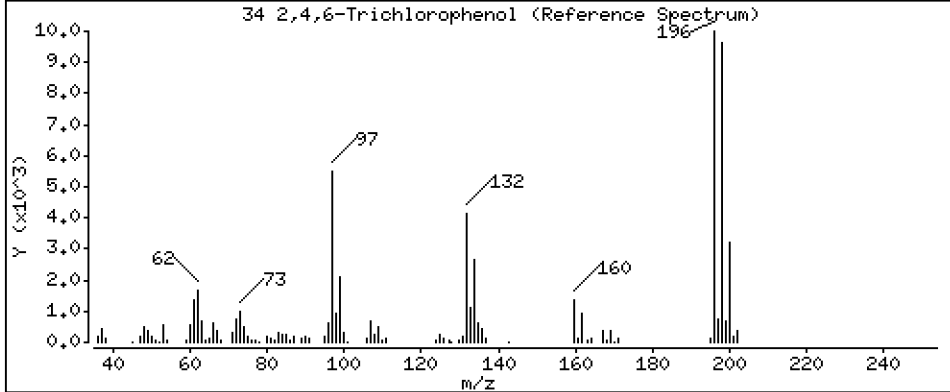
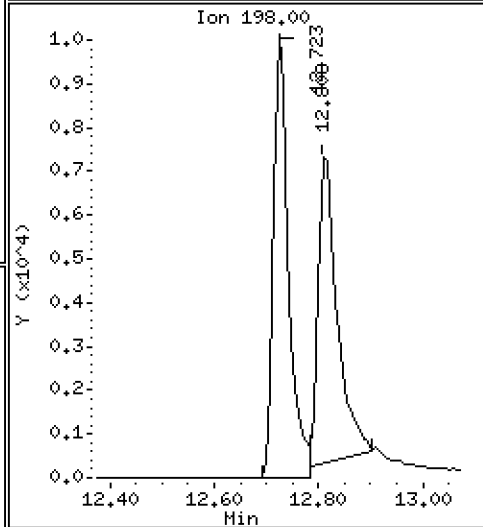
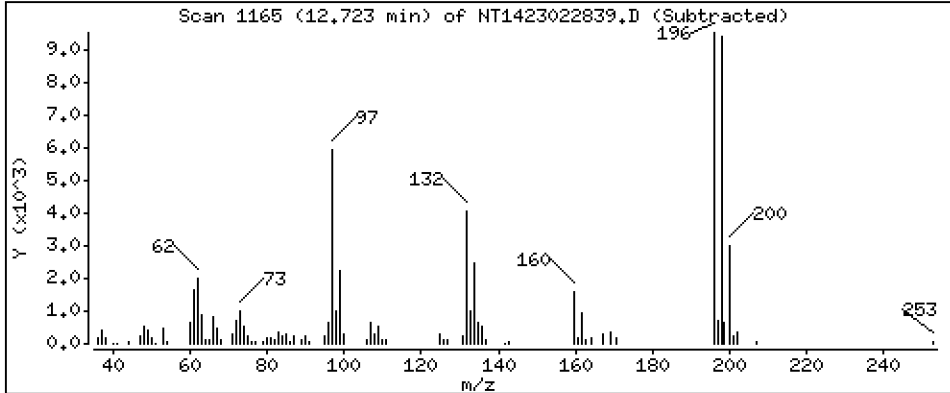
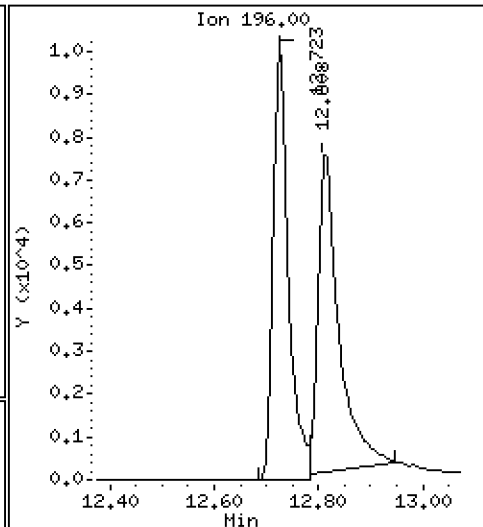
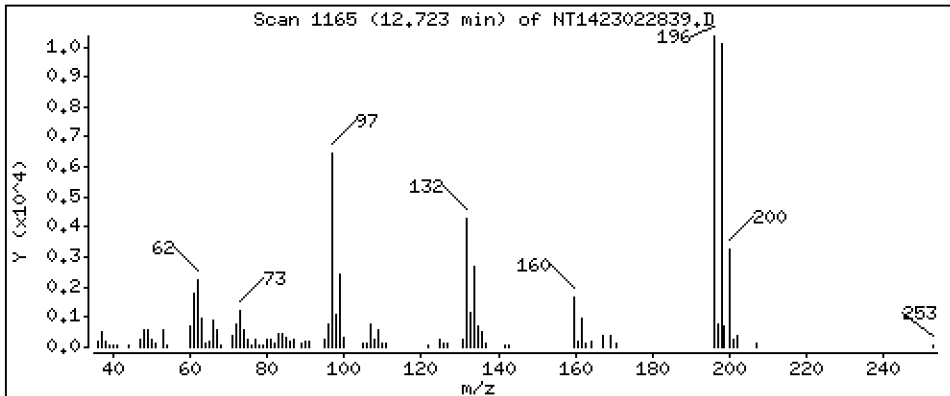
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,8898 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

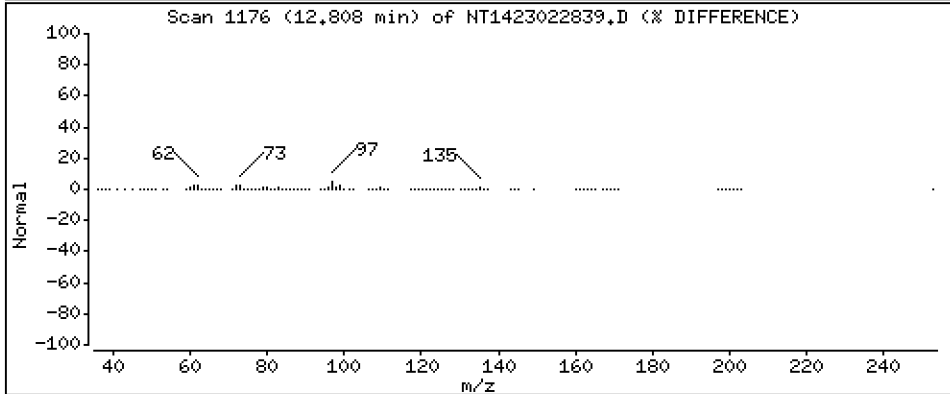
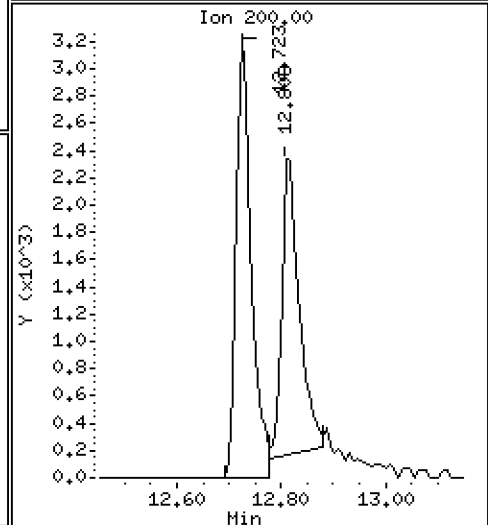
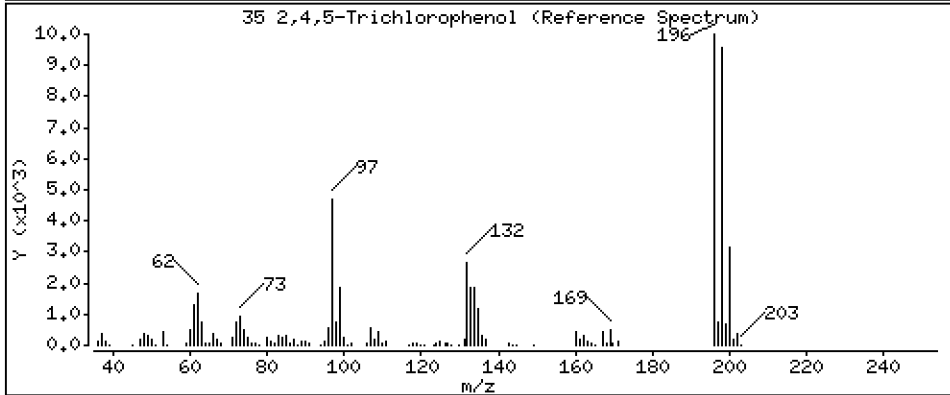
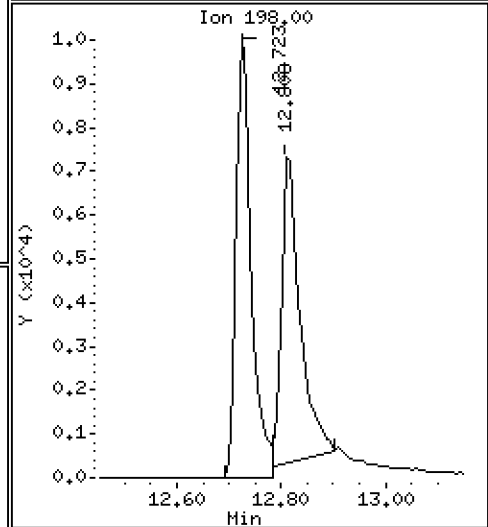
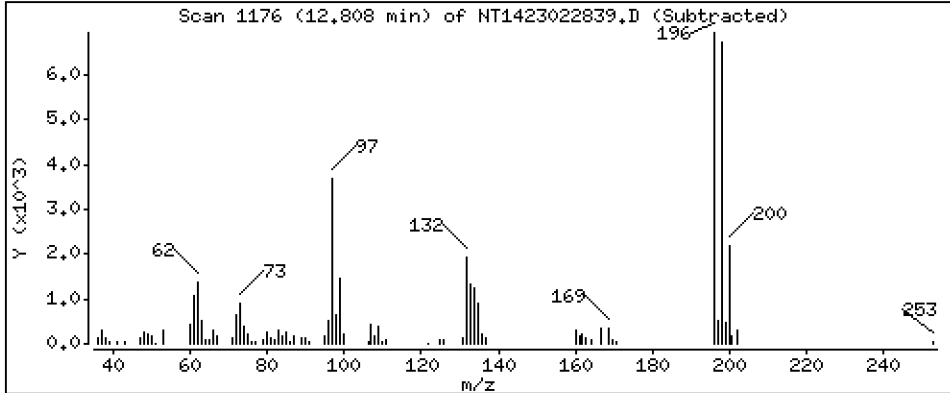
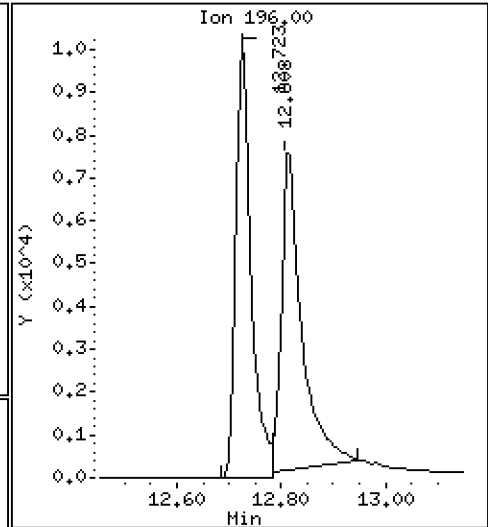
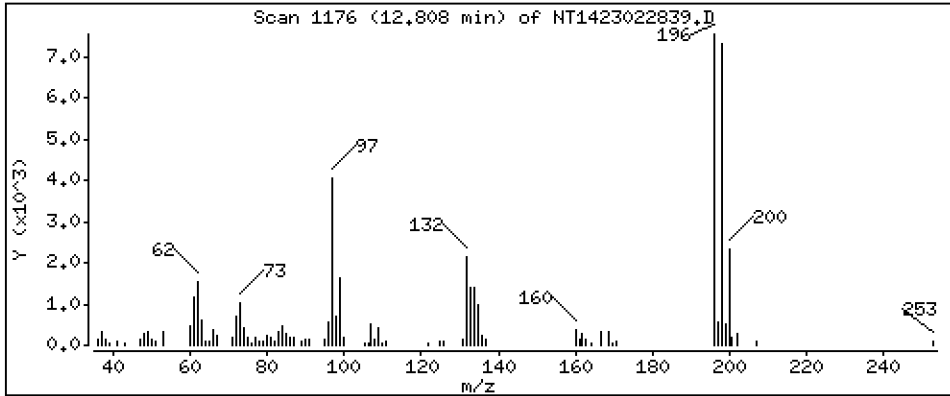
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,8232 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

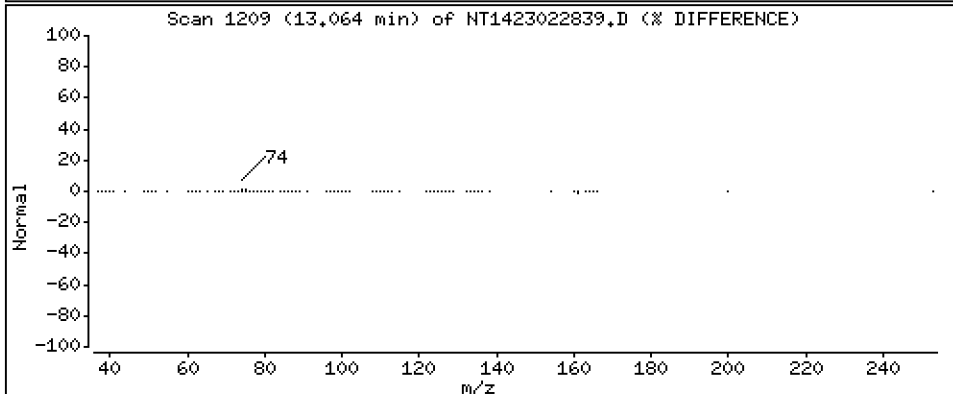
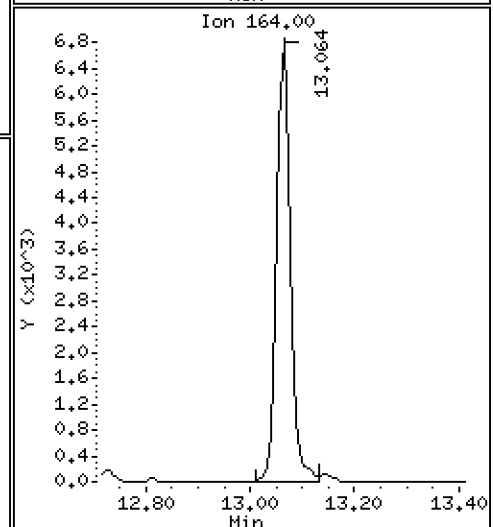
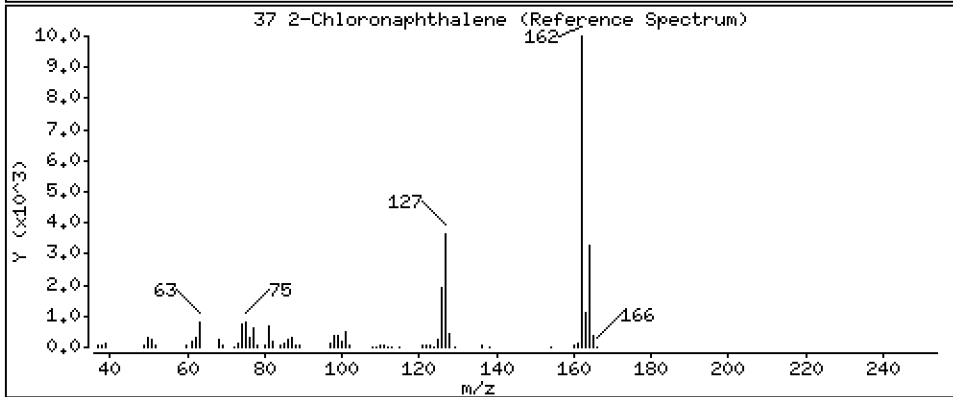
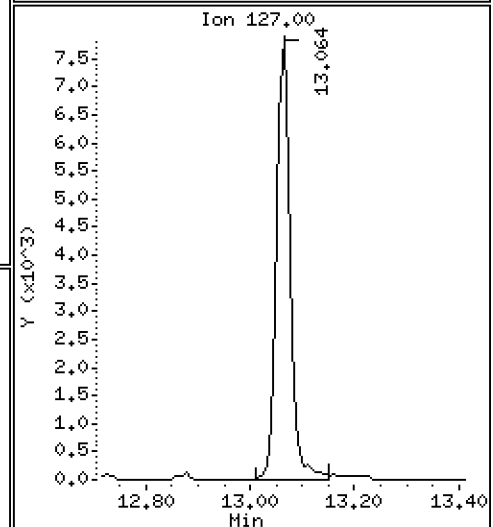
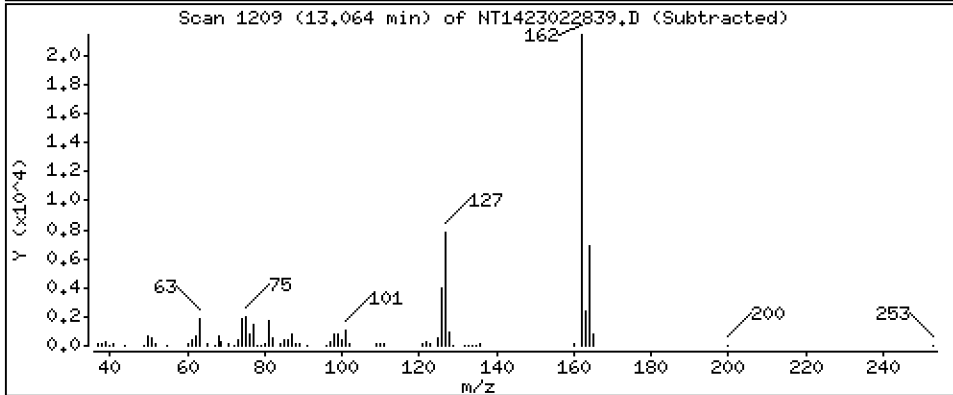
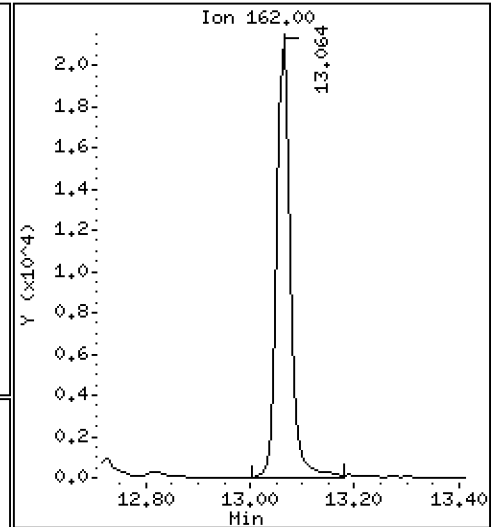
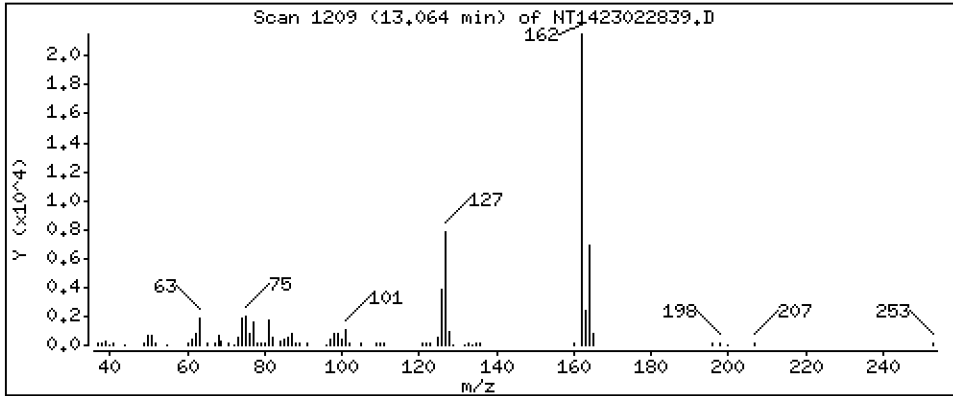
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,5120 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

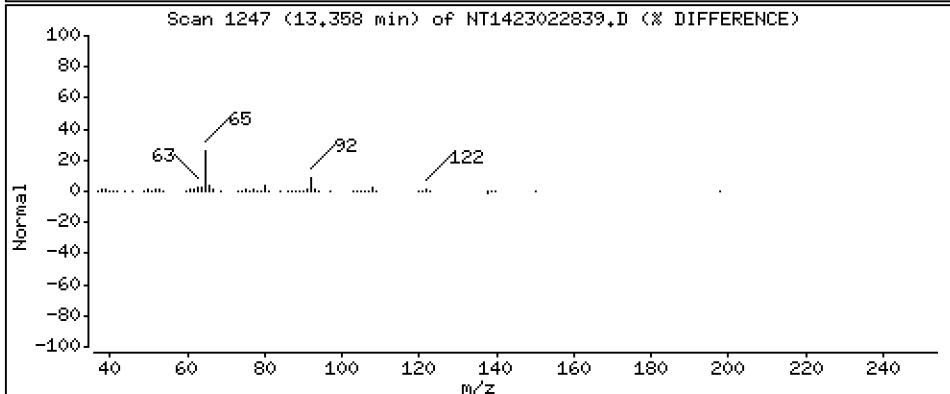
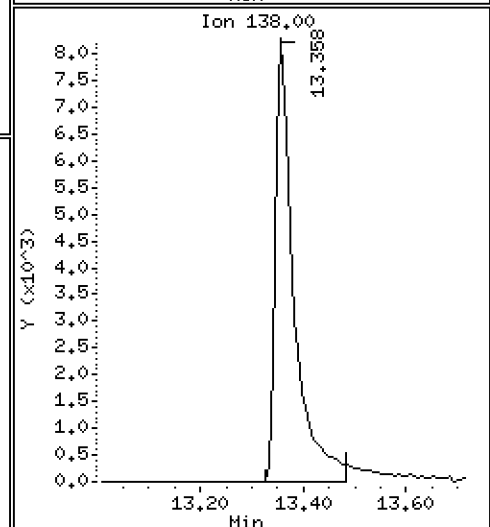
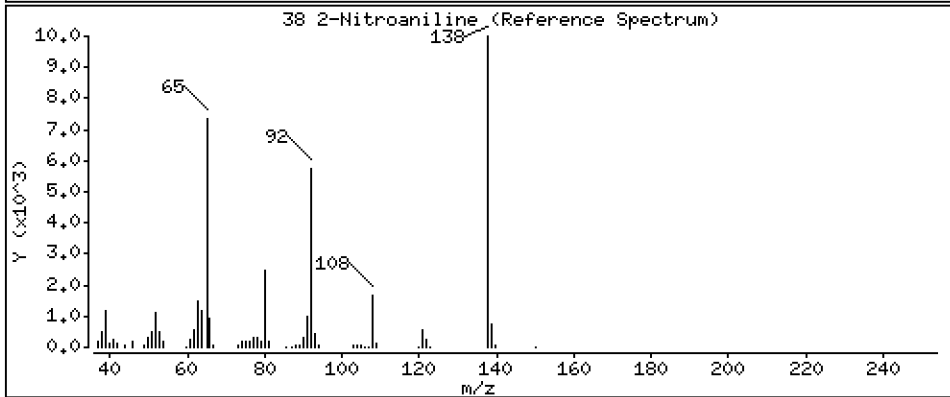
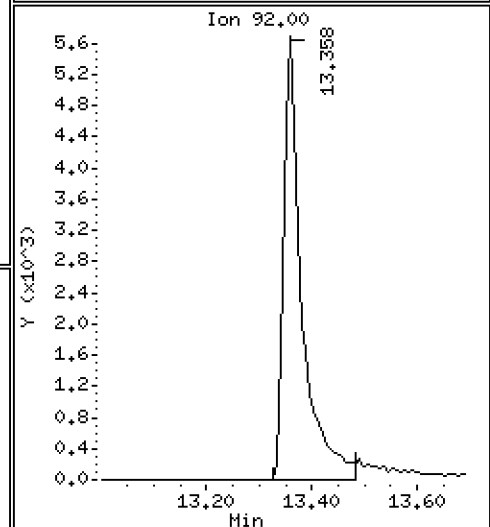
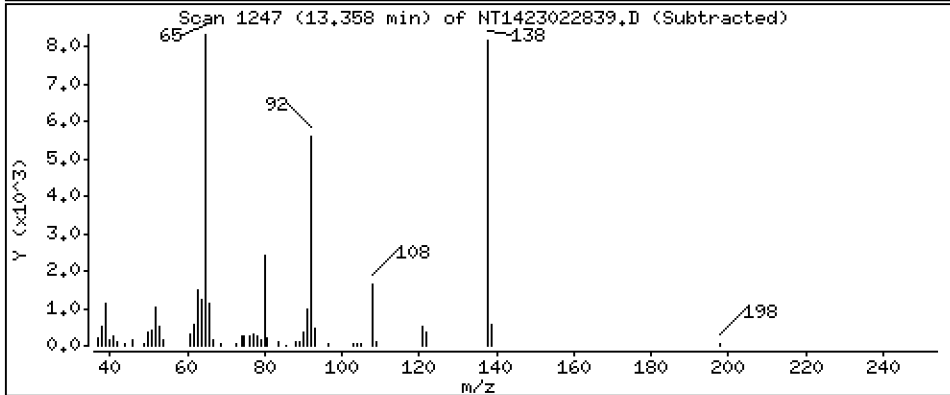
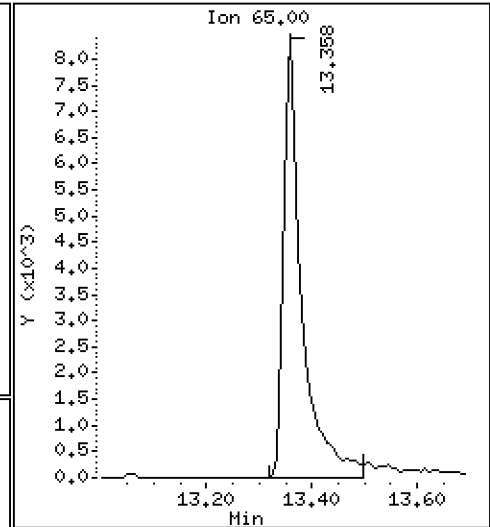
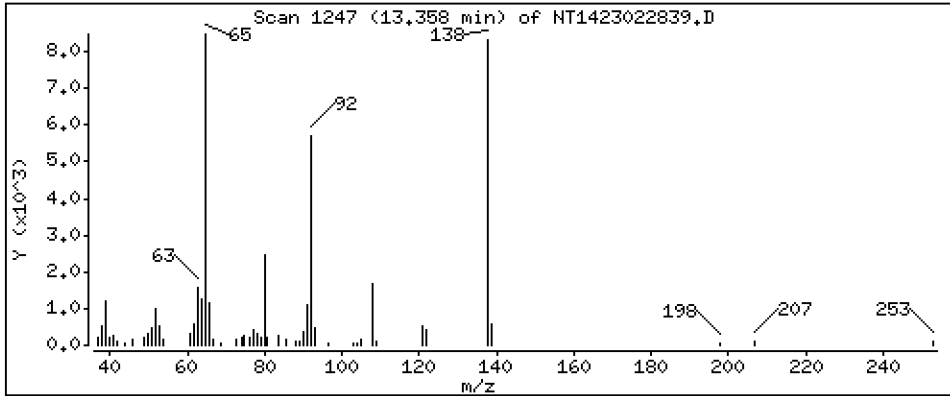
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 1,070 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

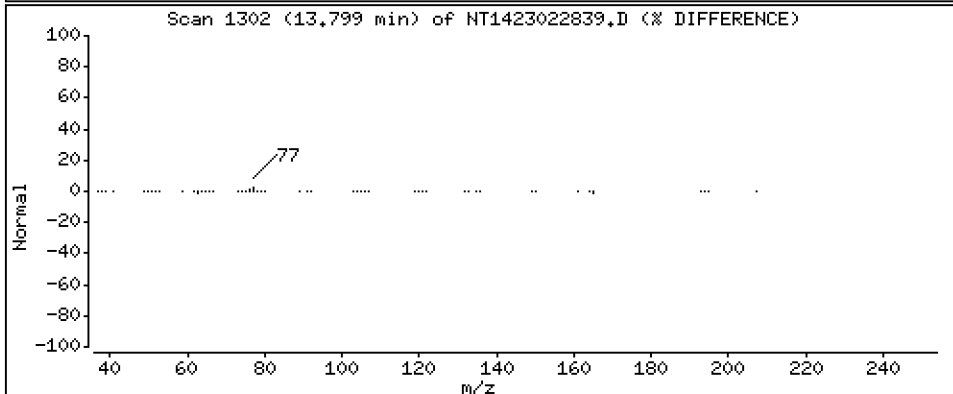
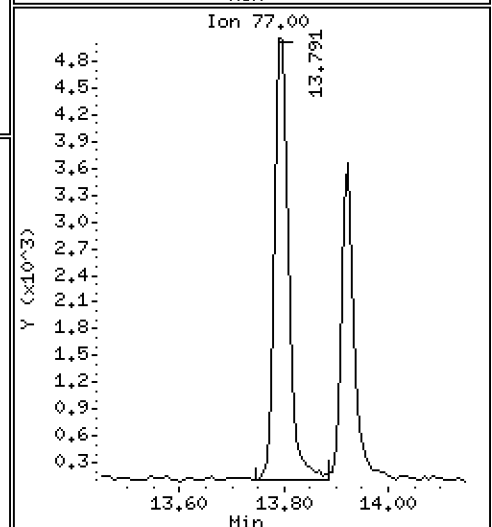
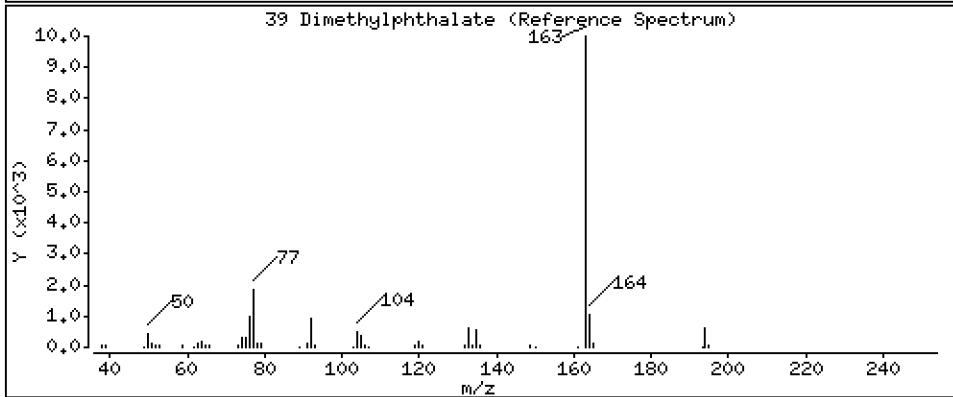
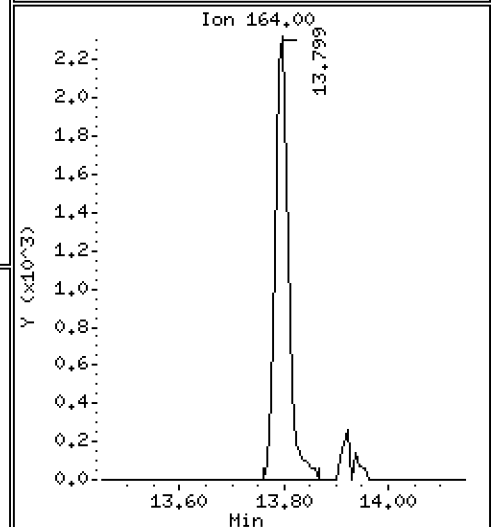
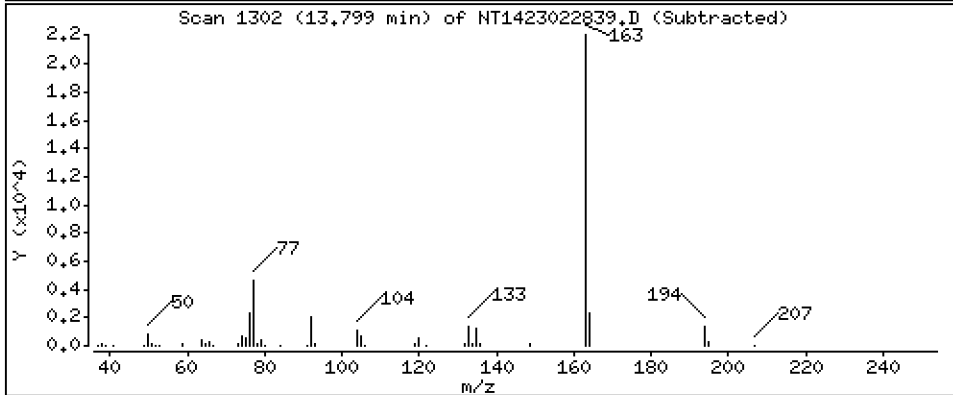
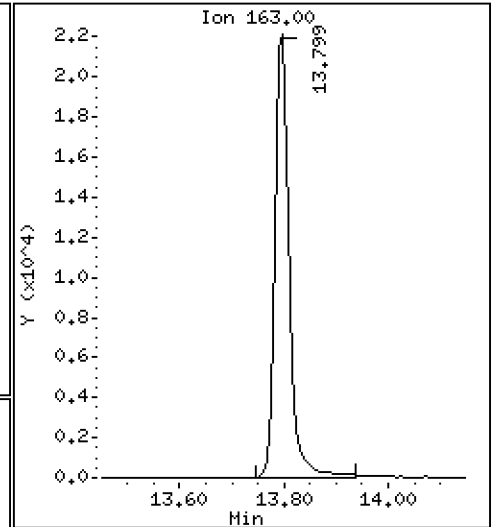
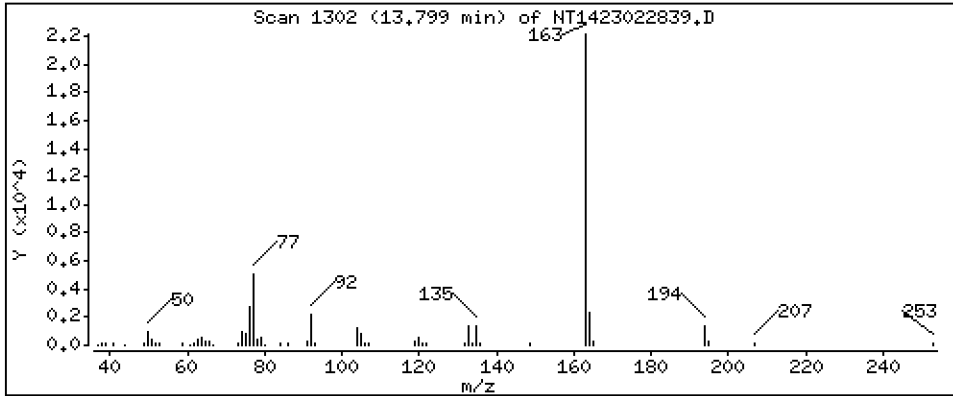
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,5531 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

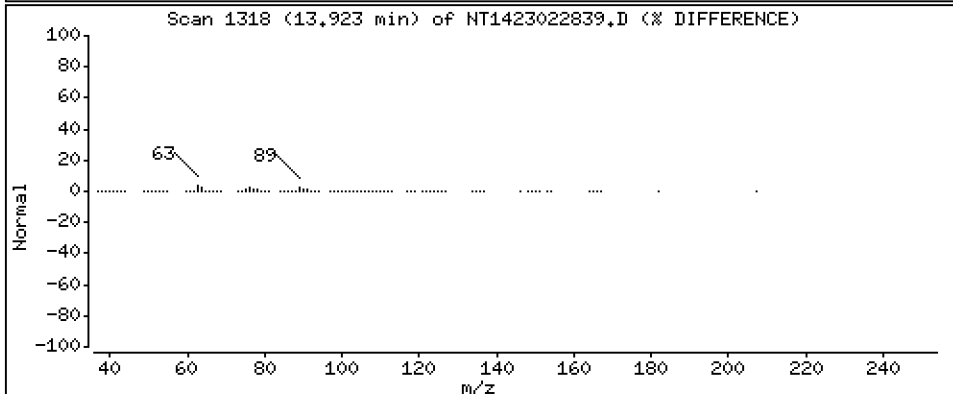
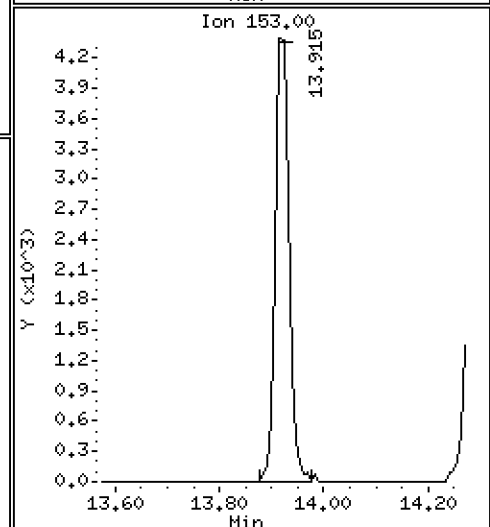
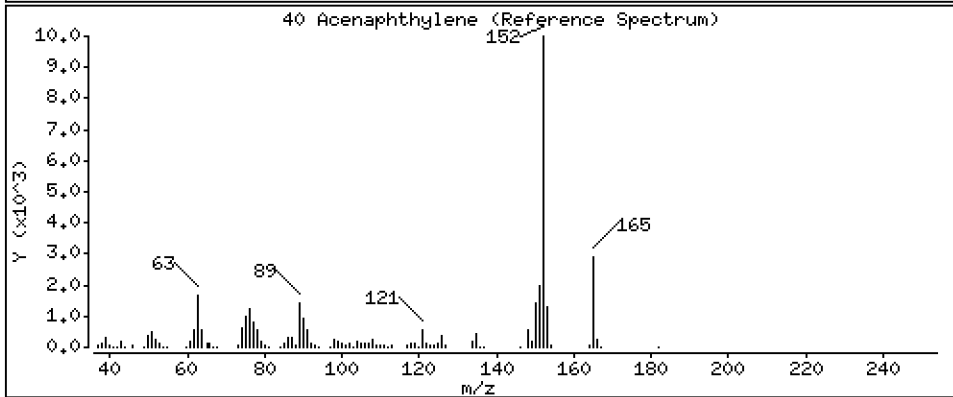
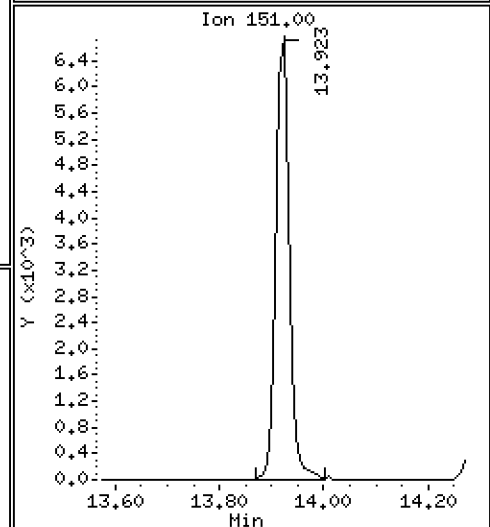
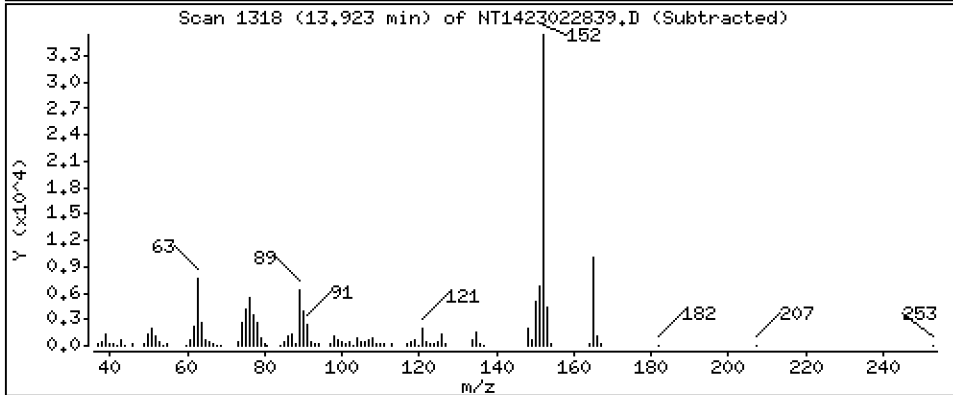
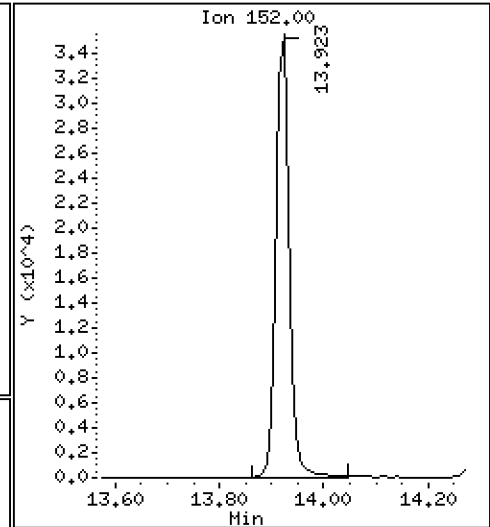
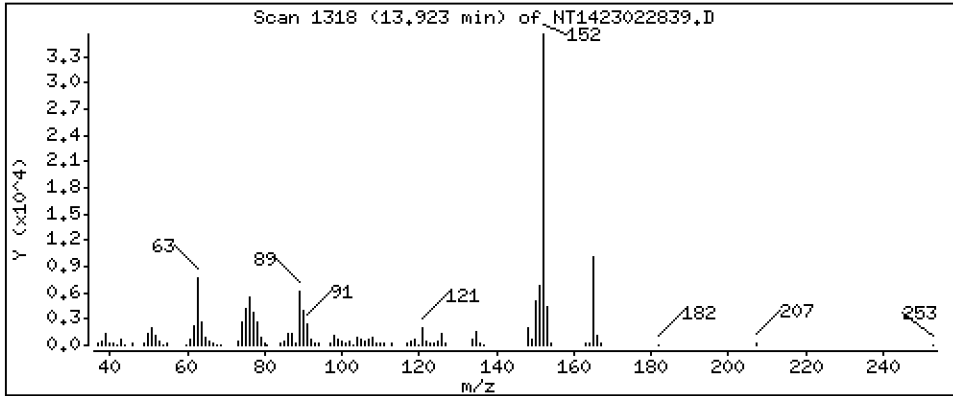
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,5614 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

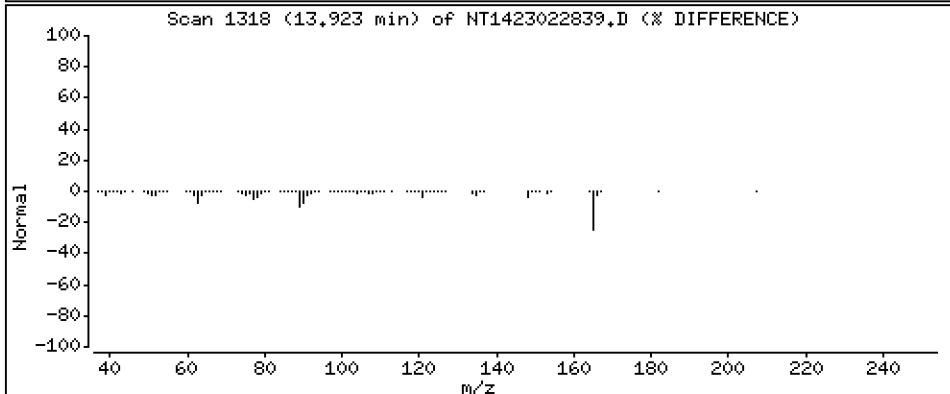
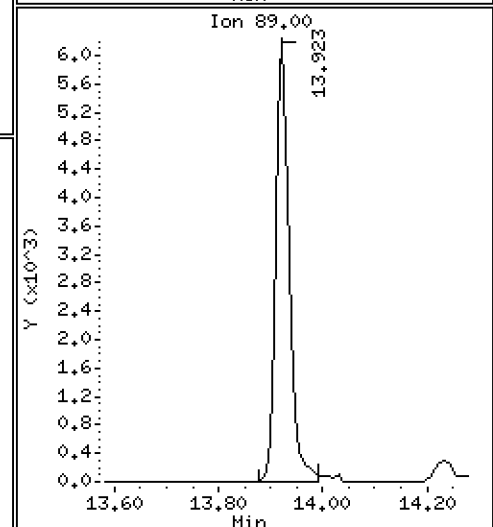
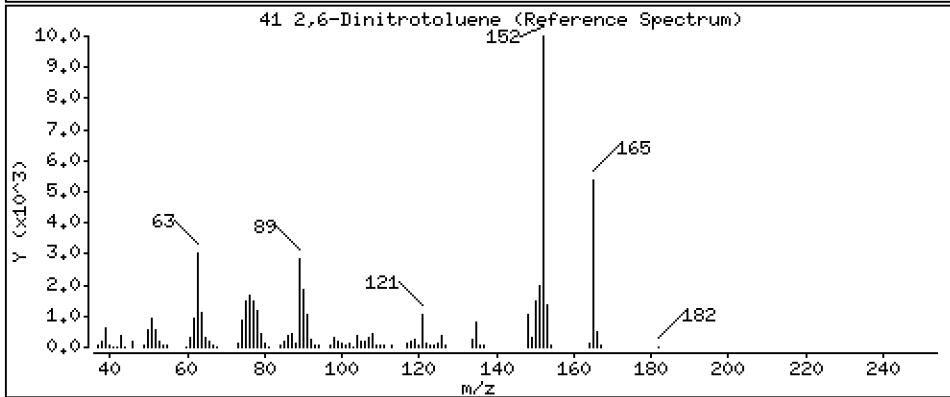
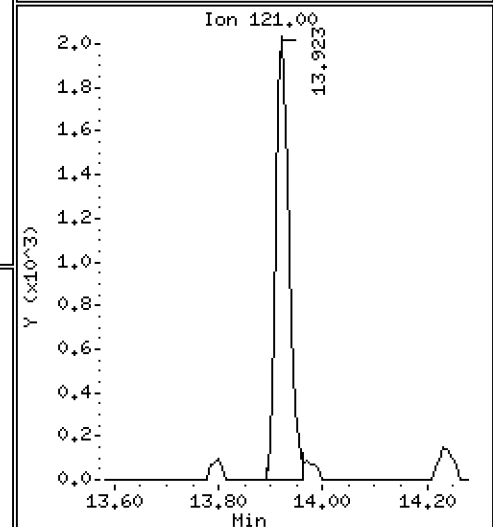
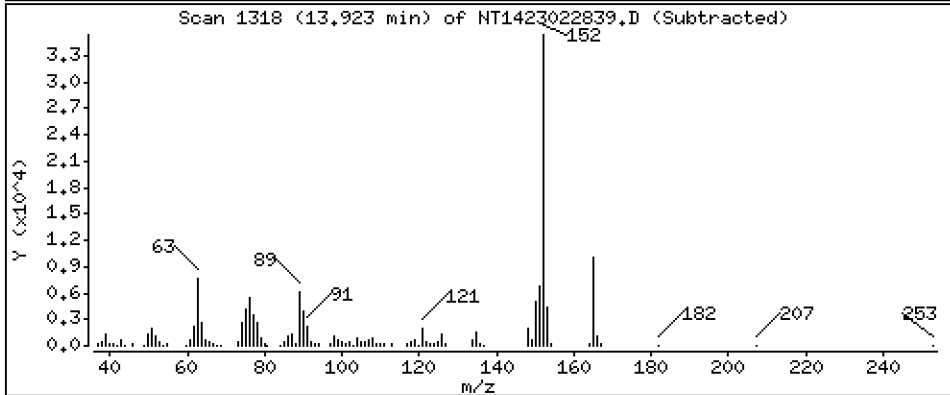
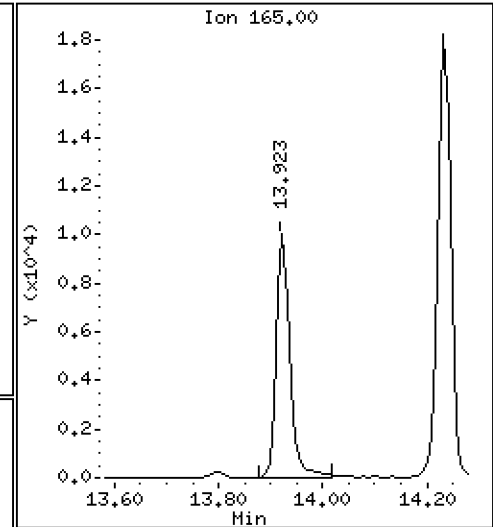
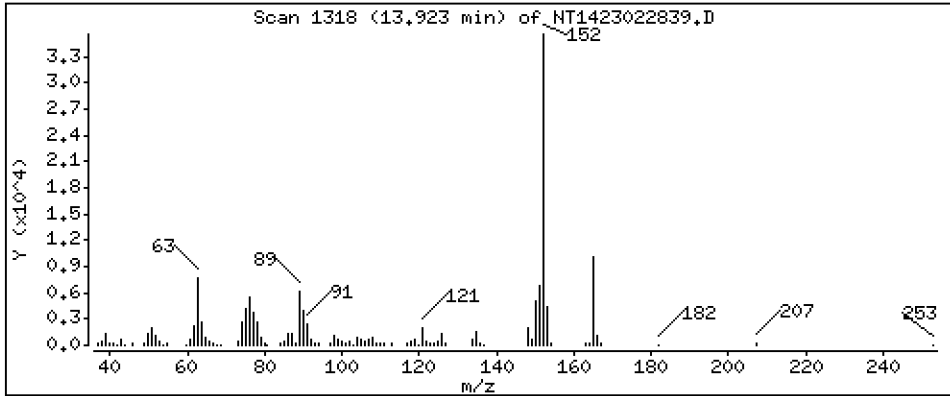
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 1.004 ug/mL





Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

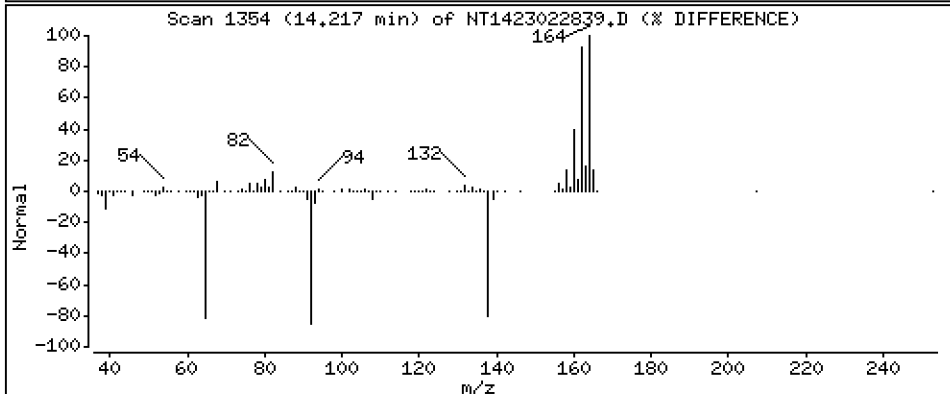
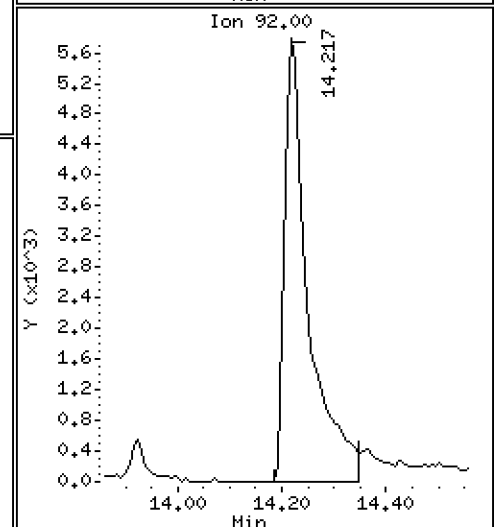
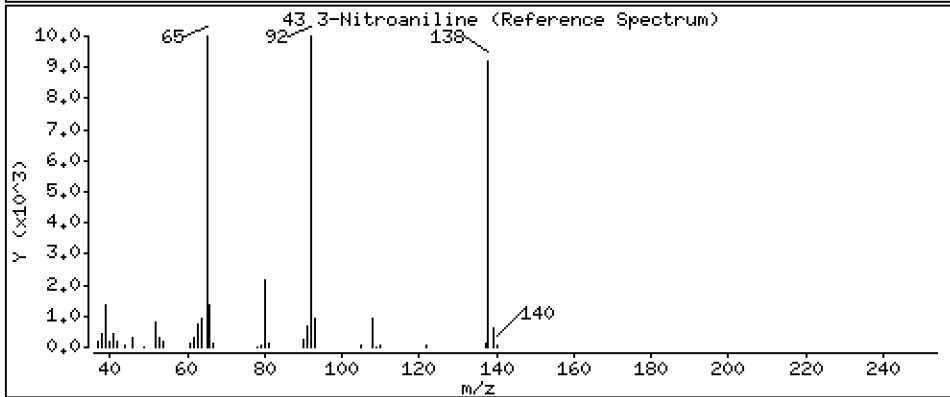
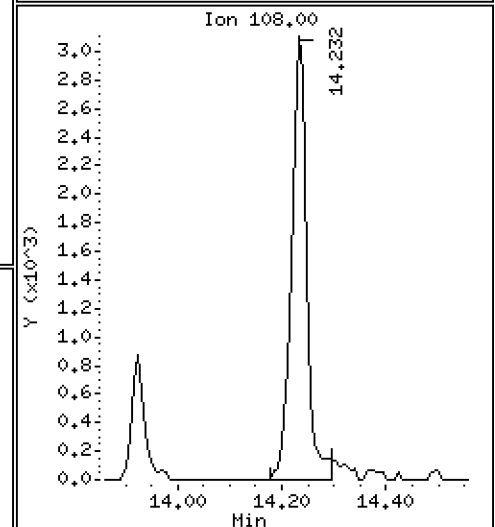
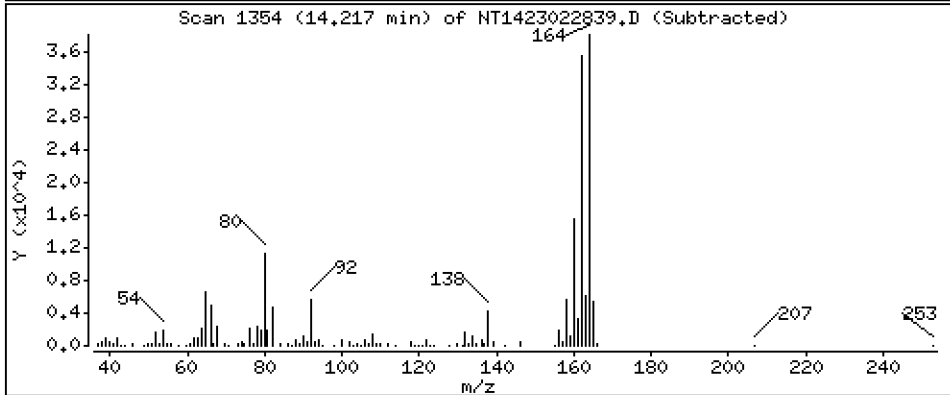
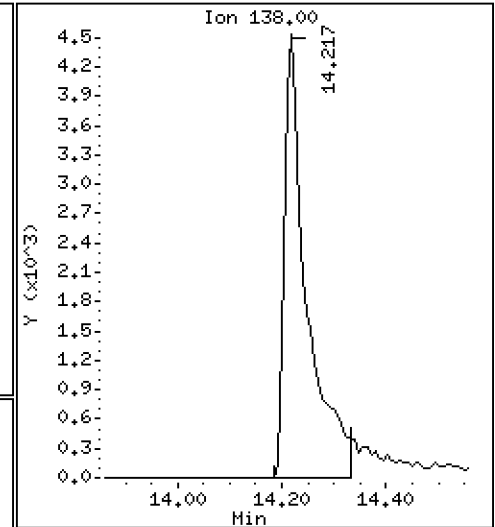
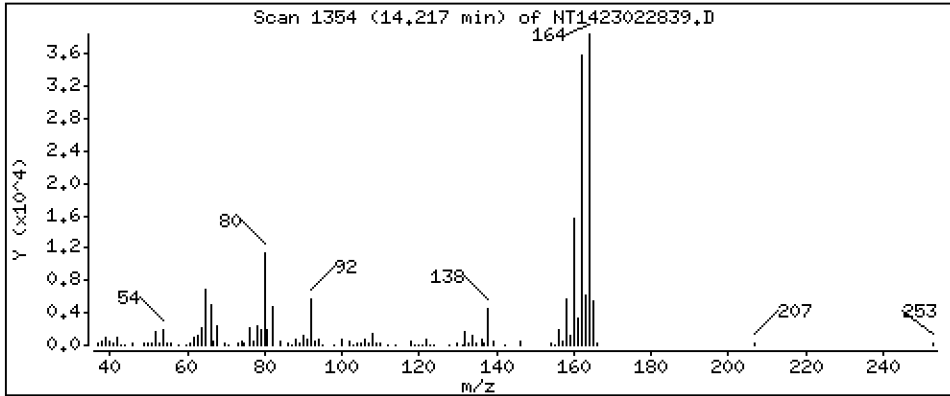
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,7629 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

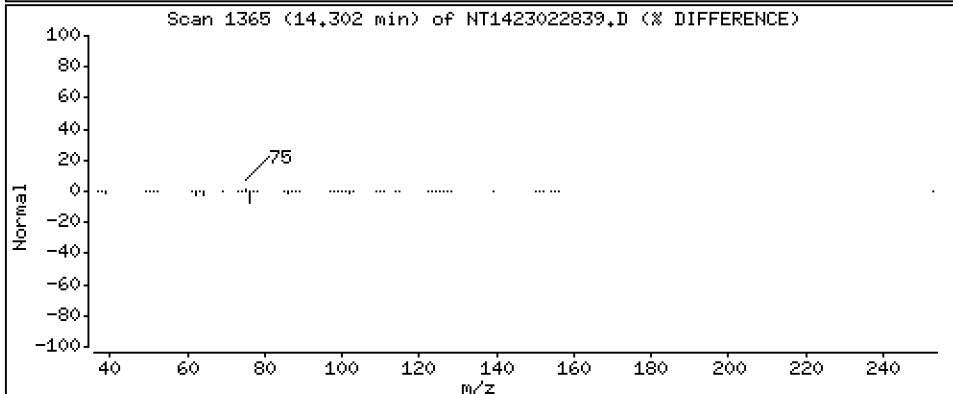
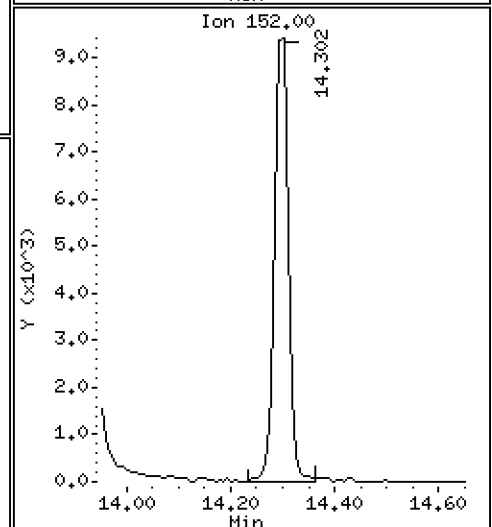
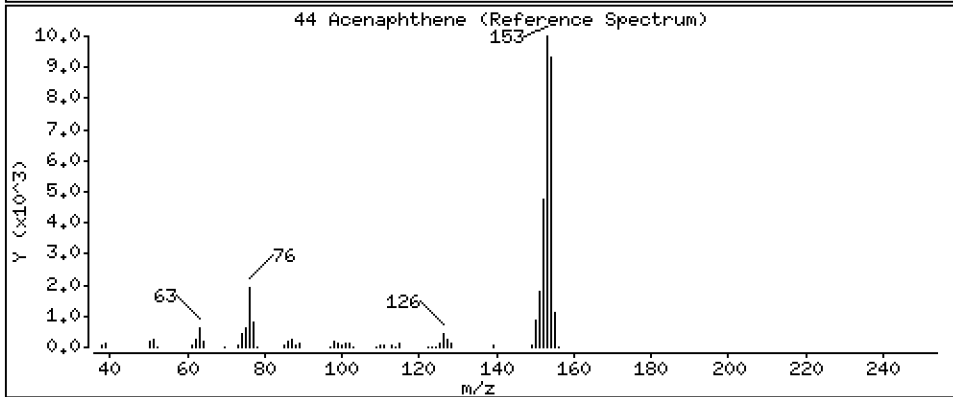
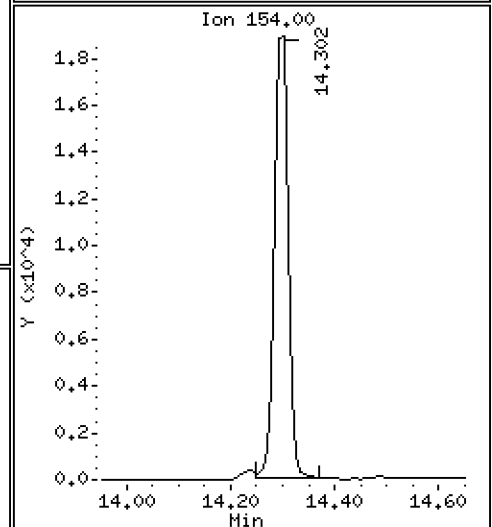
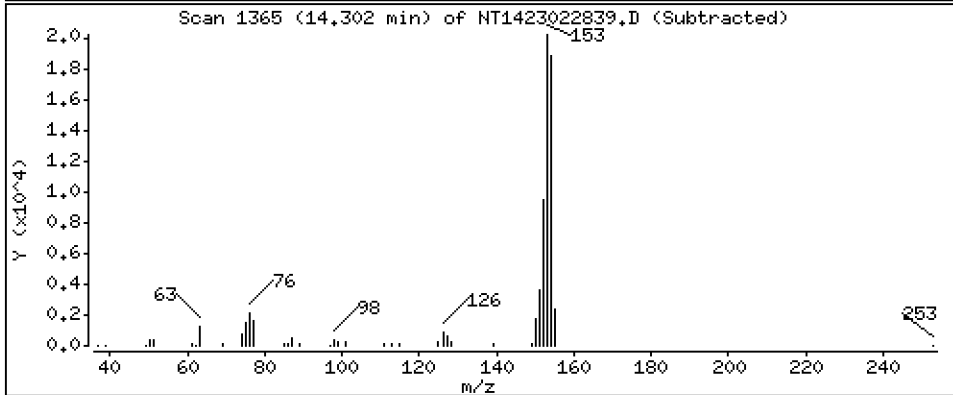
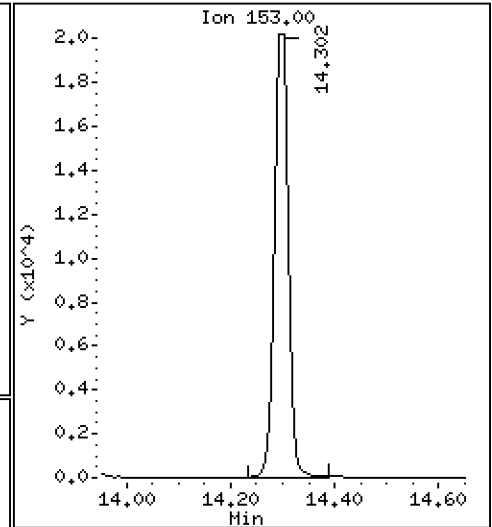
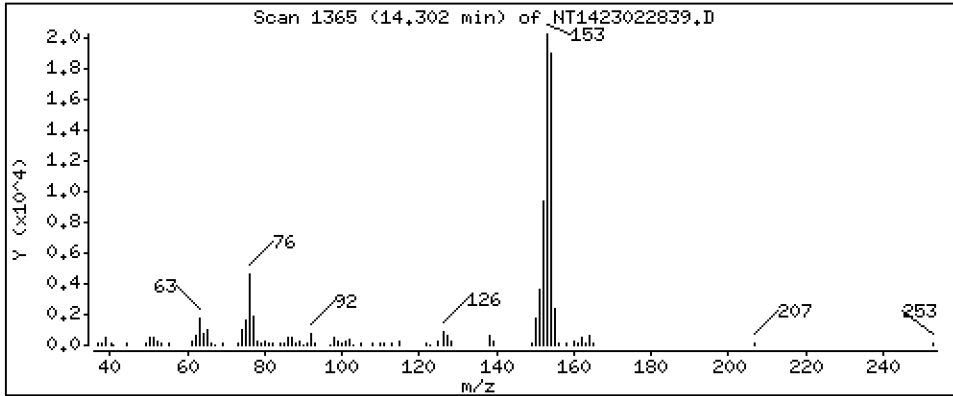
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,5197 ug/mL

44 Acenaphthene



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

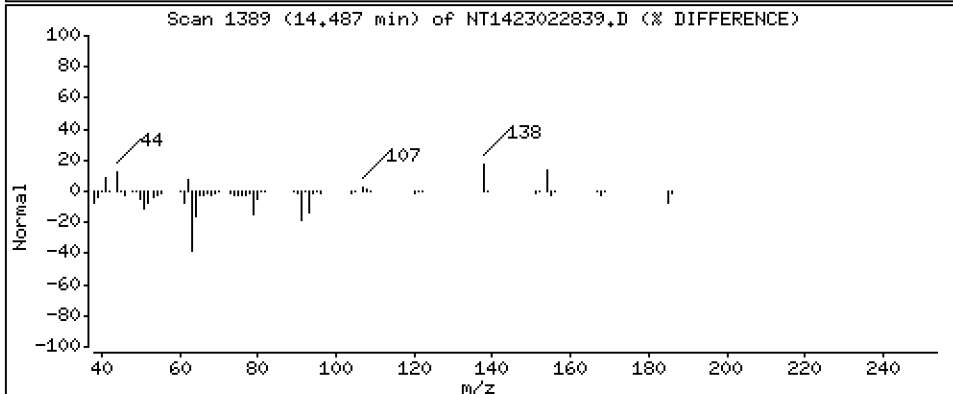
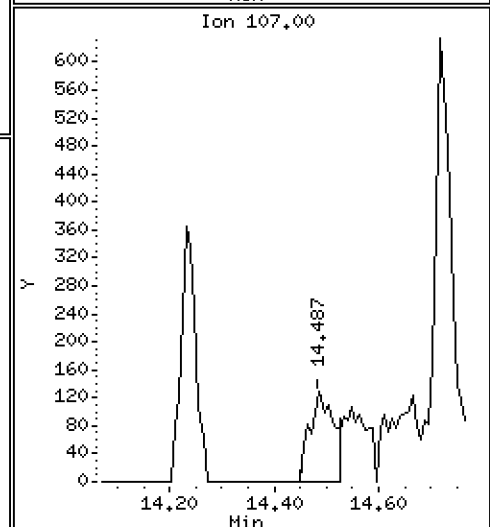
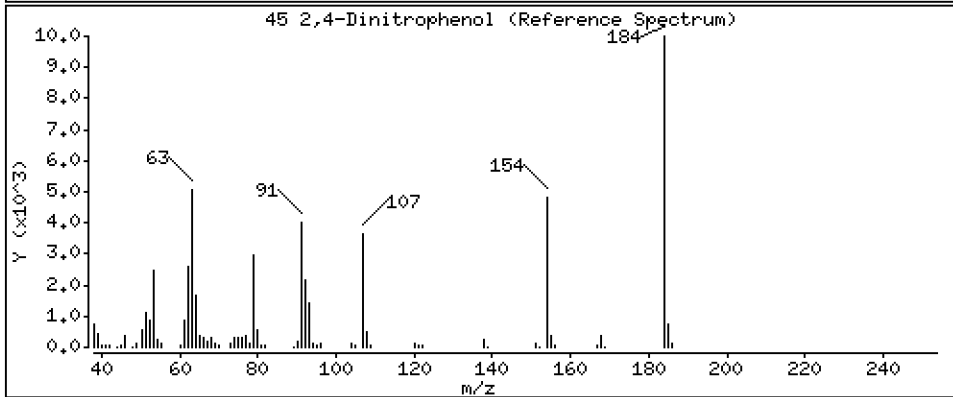
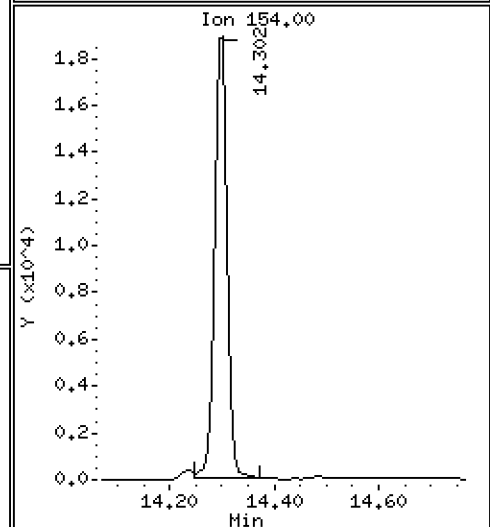
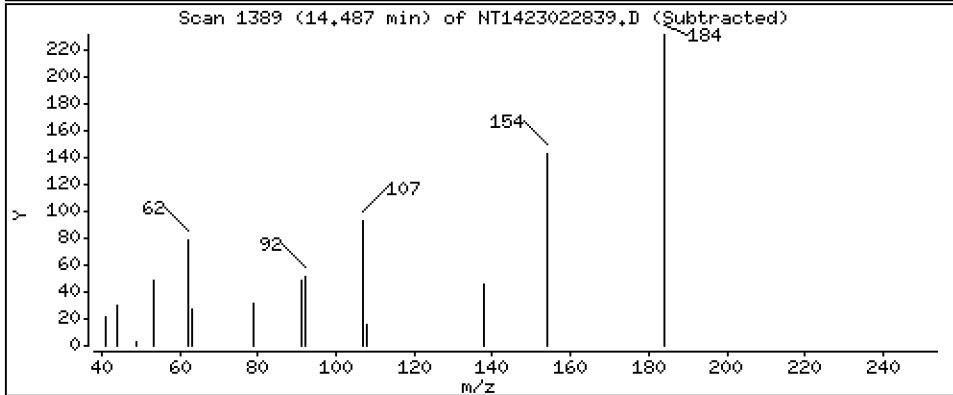
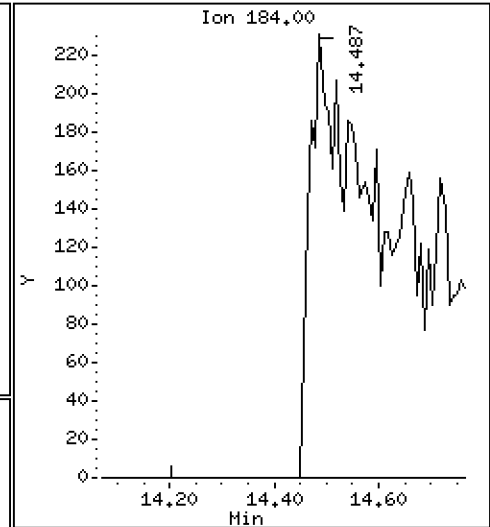
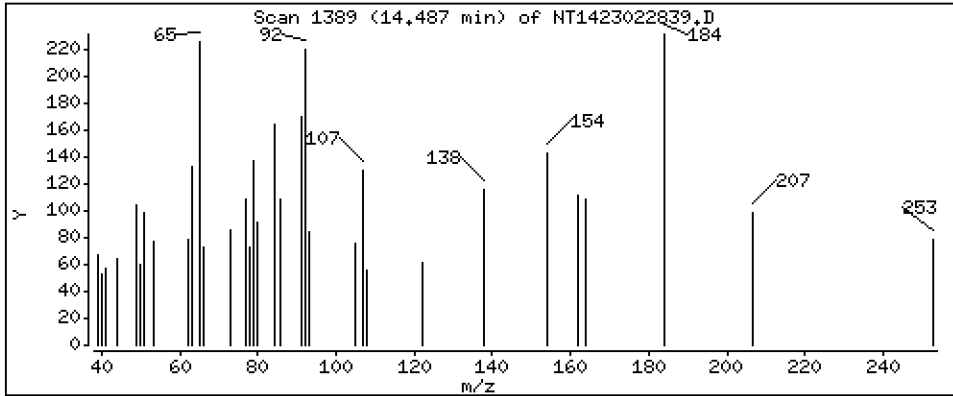
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,3318 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

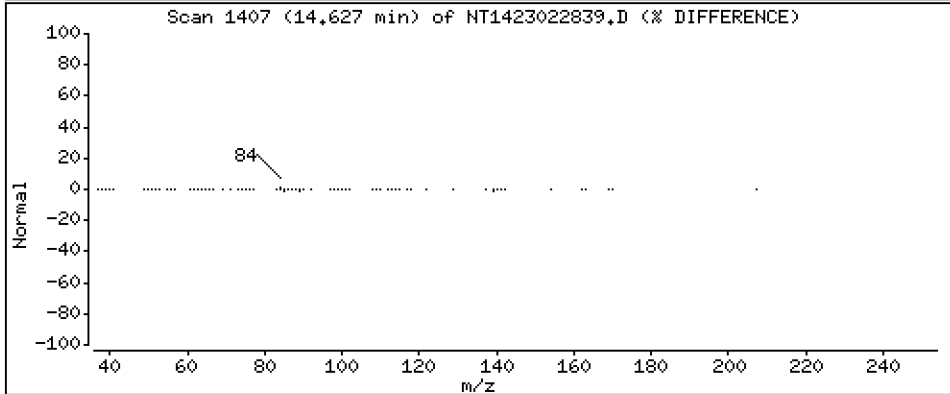
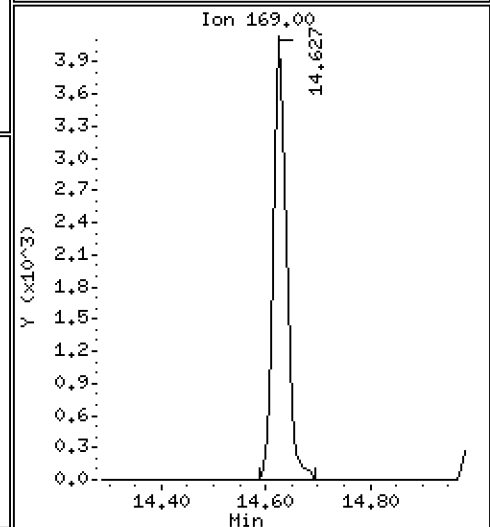
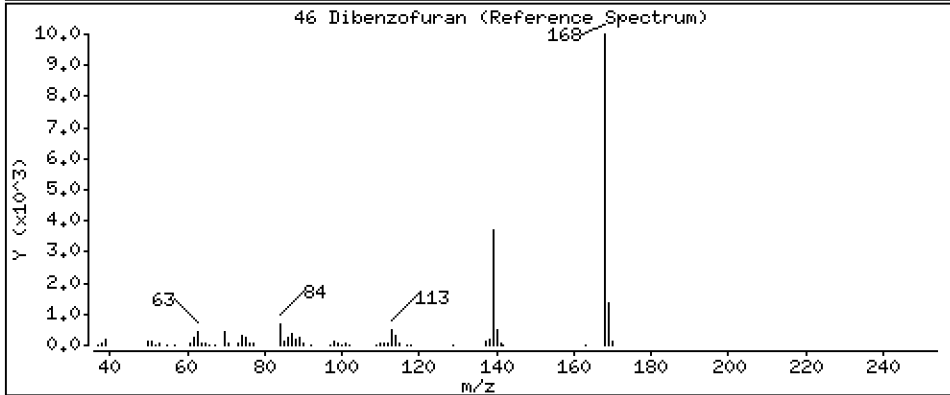
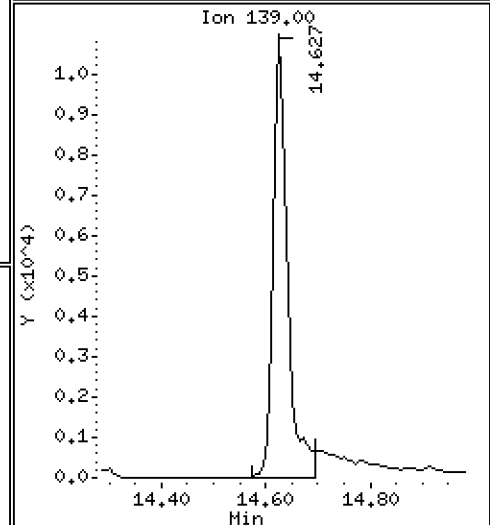
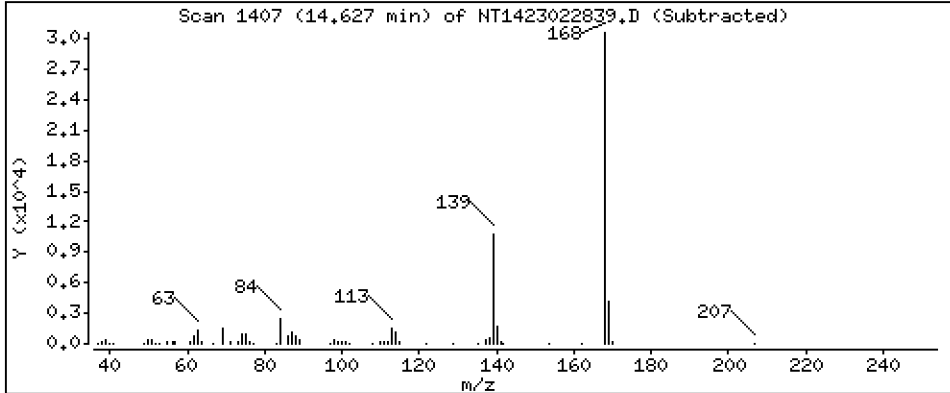
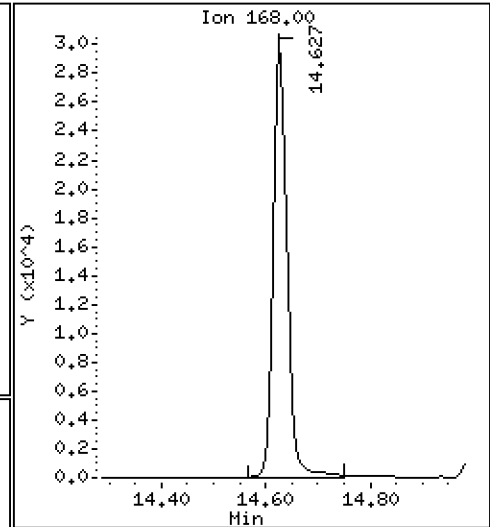
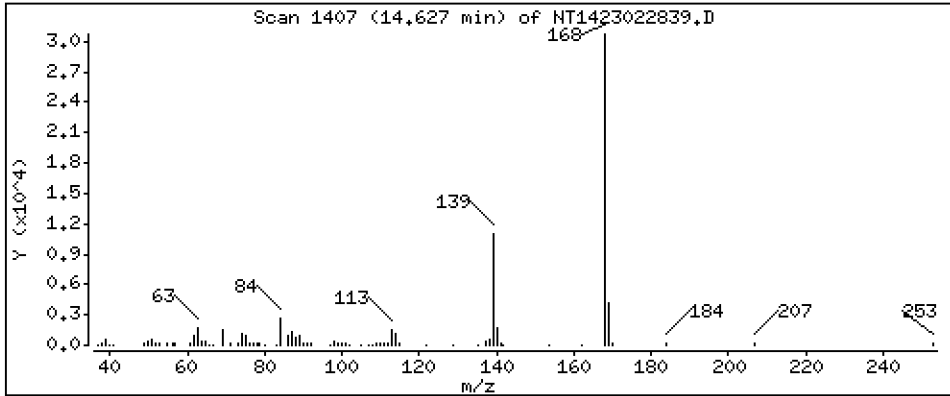
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,5026 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

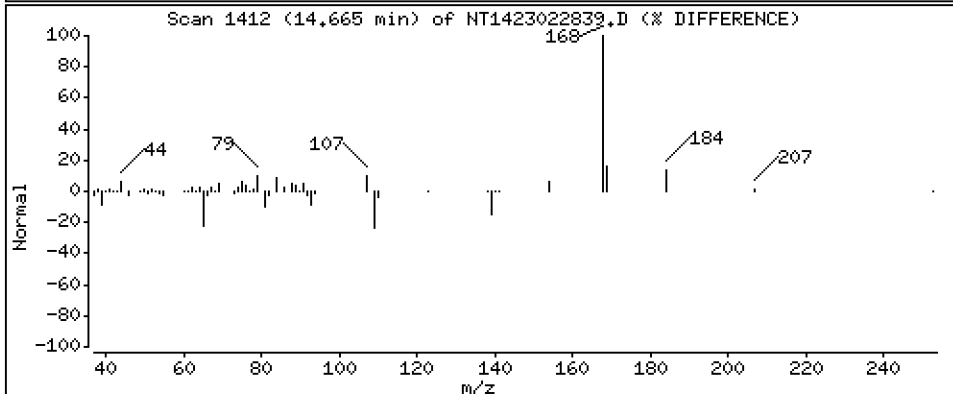
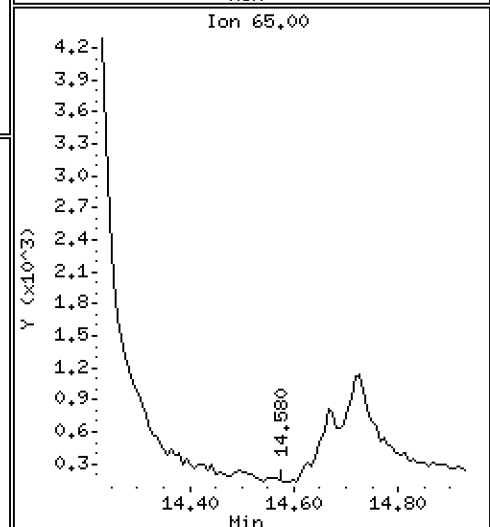
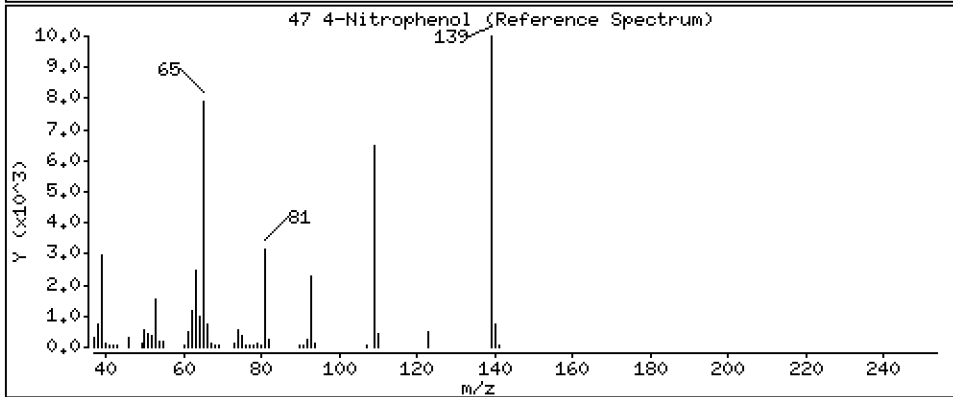
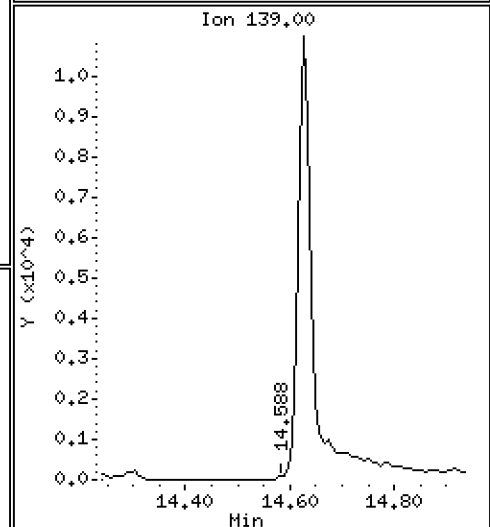
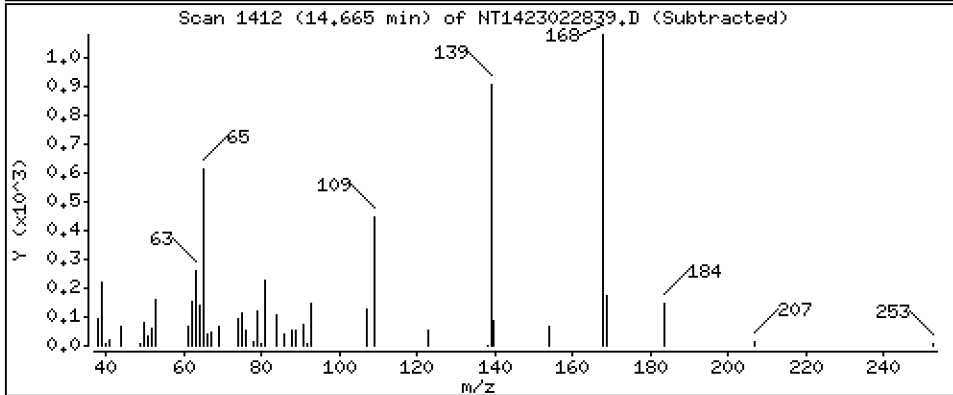
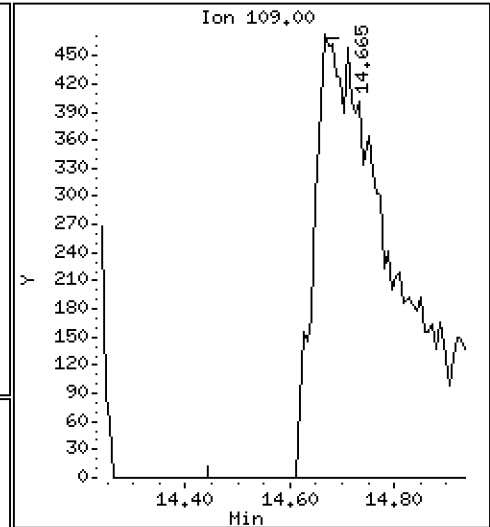
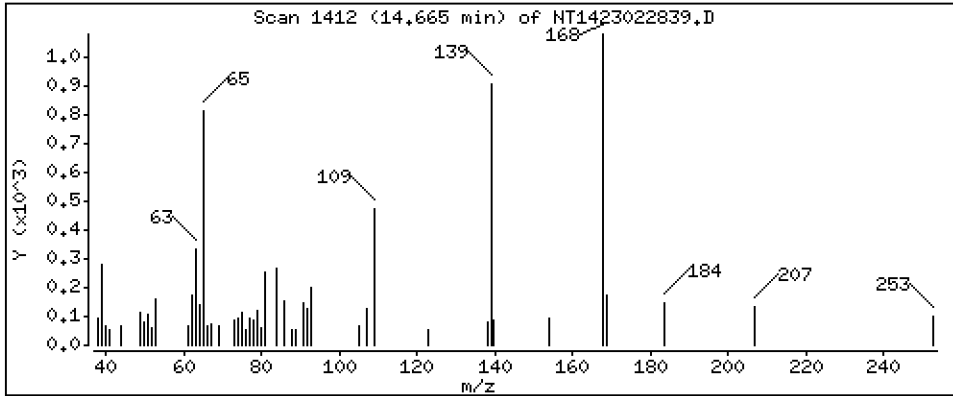
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,7739 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

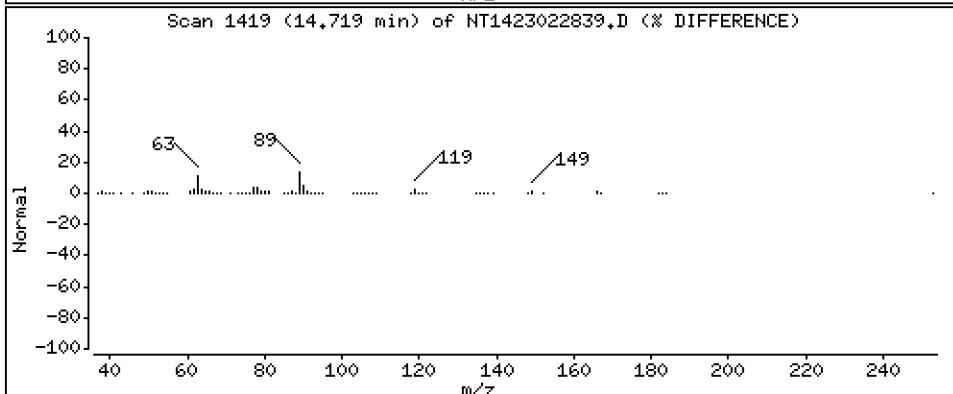
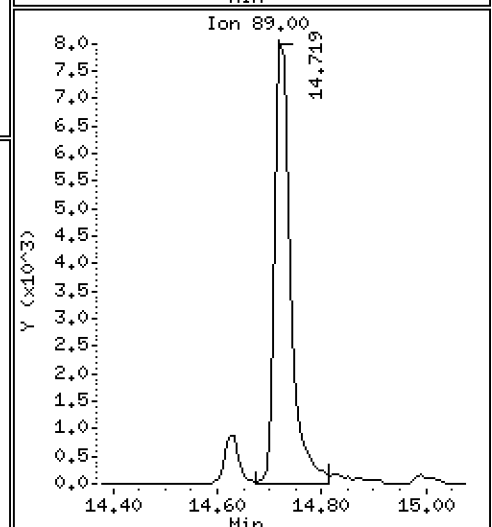
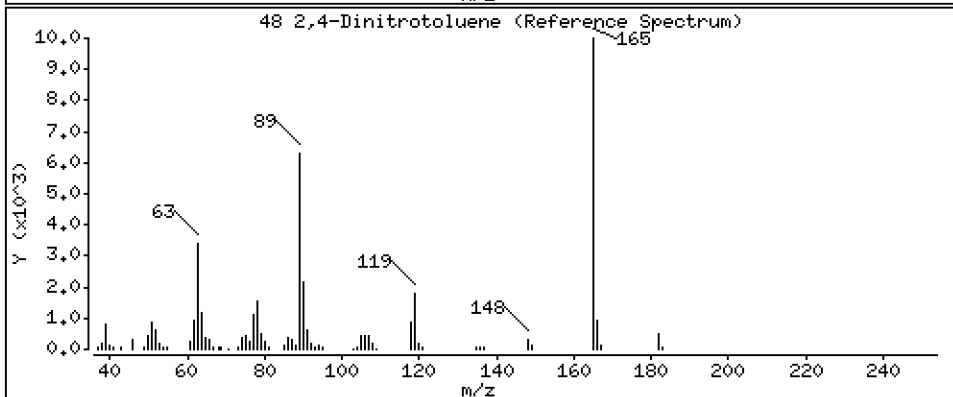
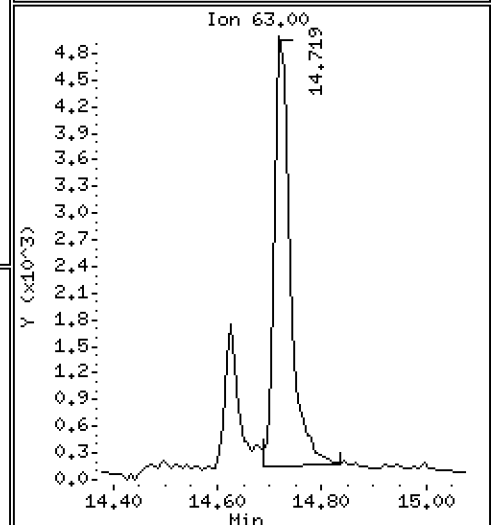
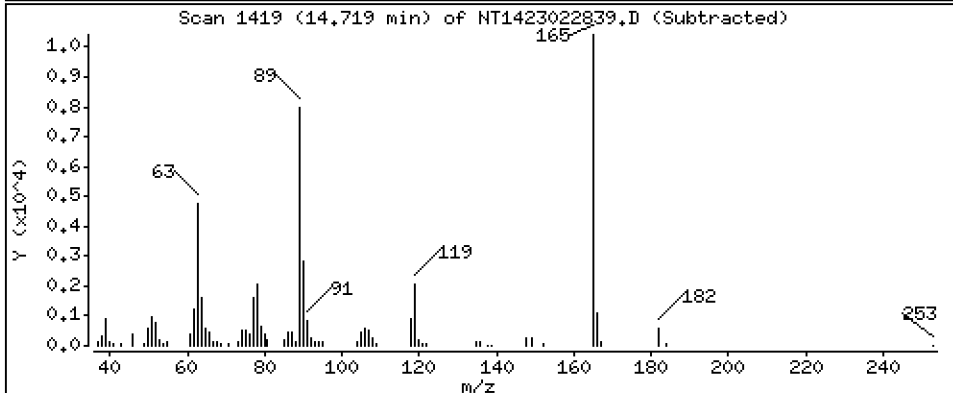
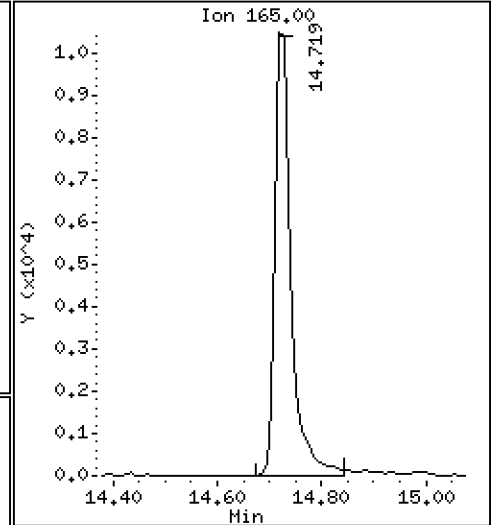
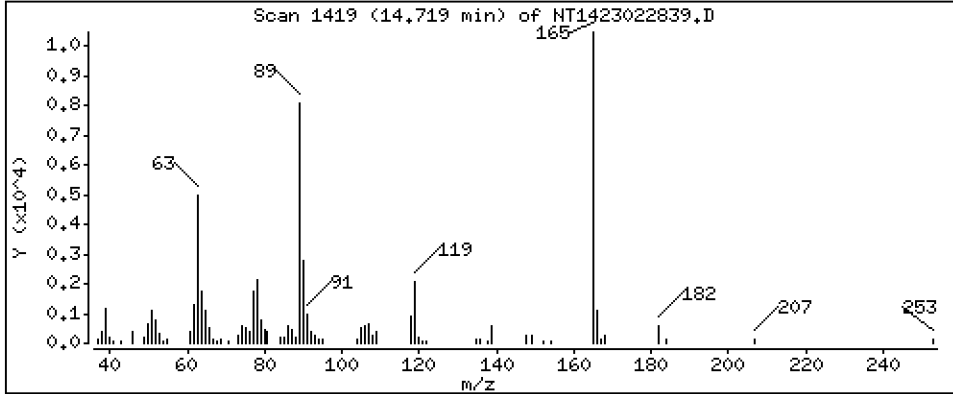
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.8778 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

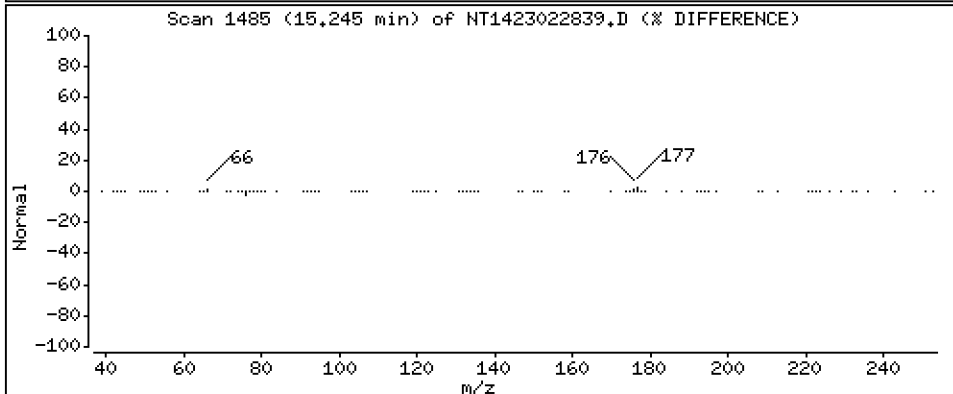
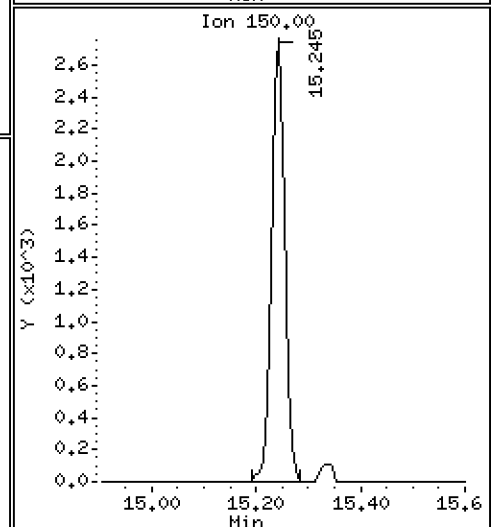
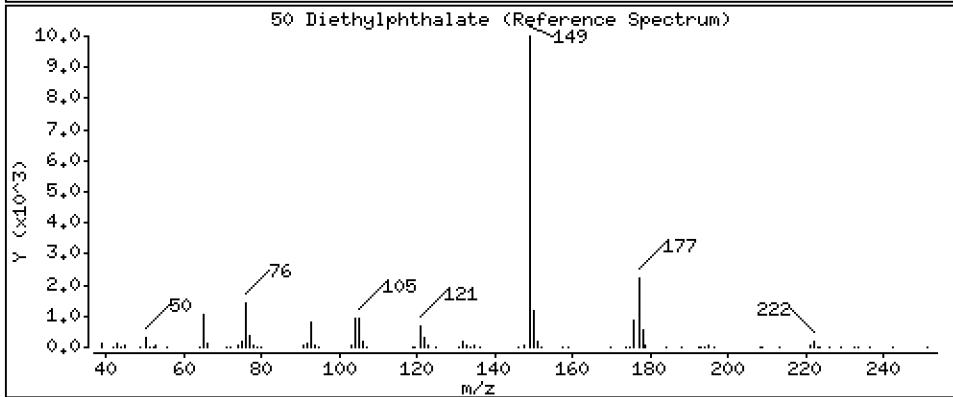
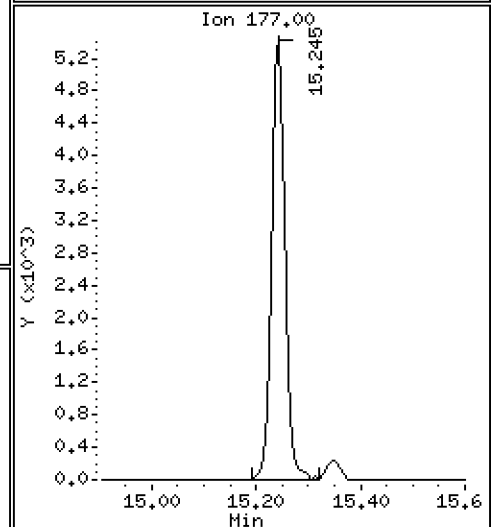
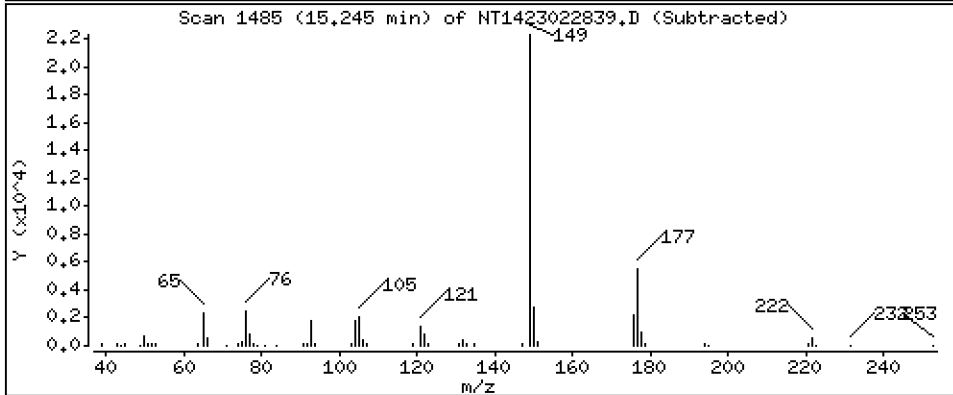
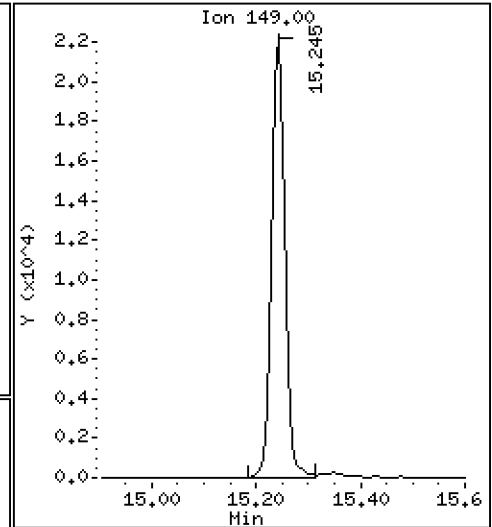
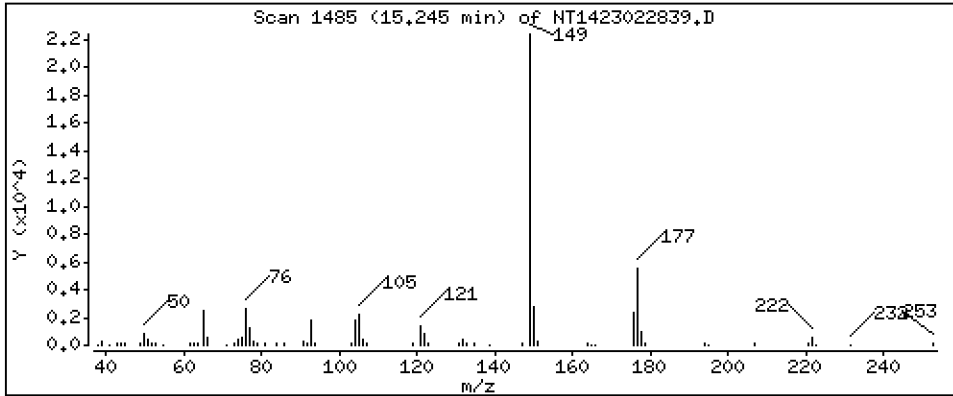
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,5507 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

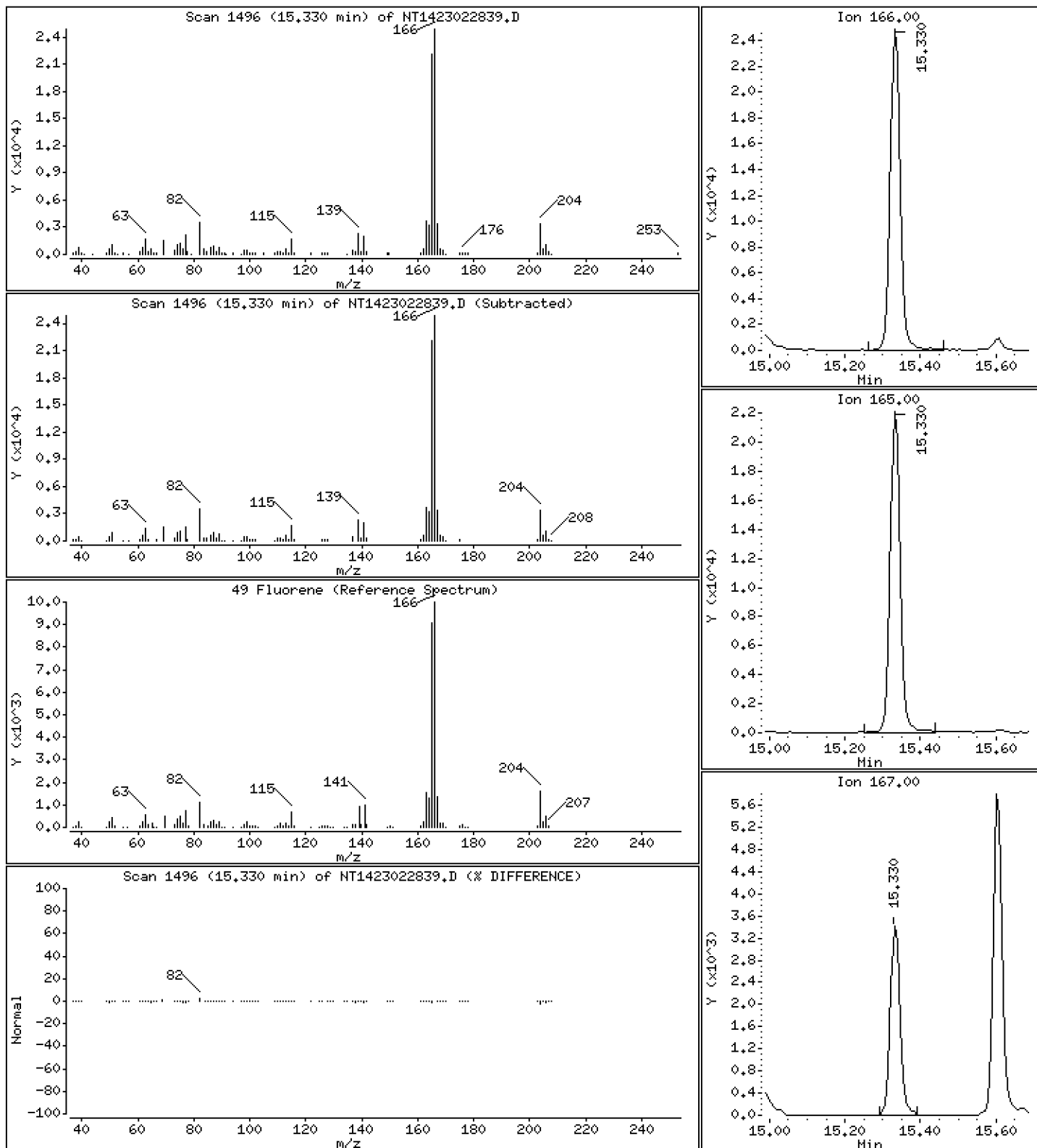
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,5207 ug/mL





Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

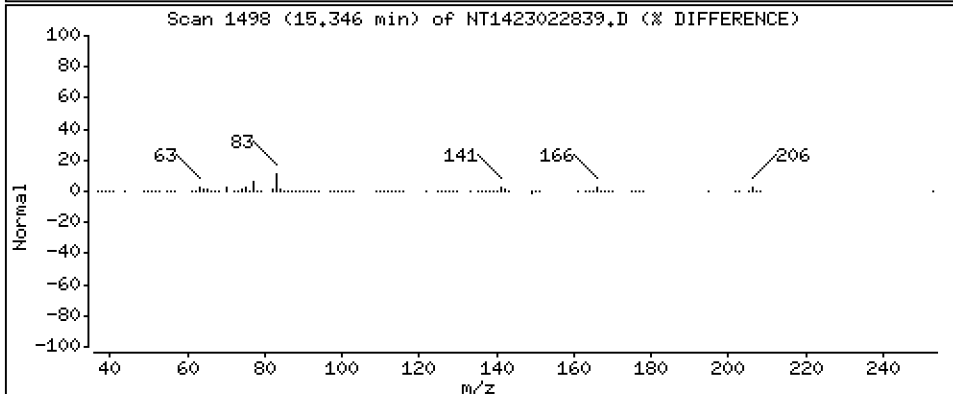
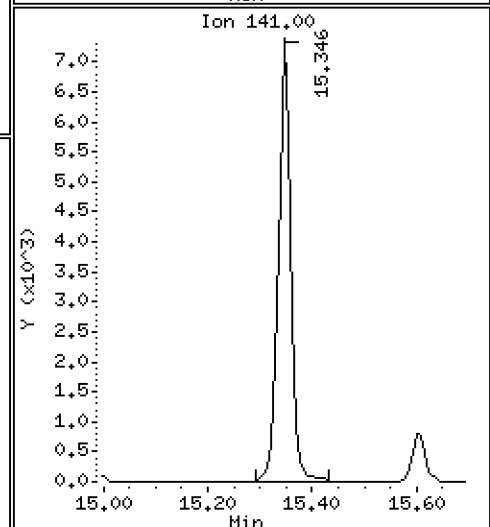
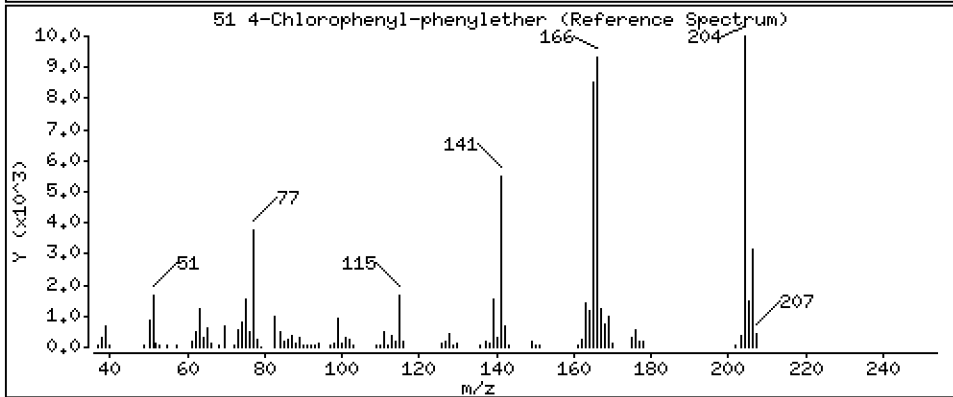
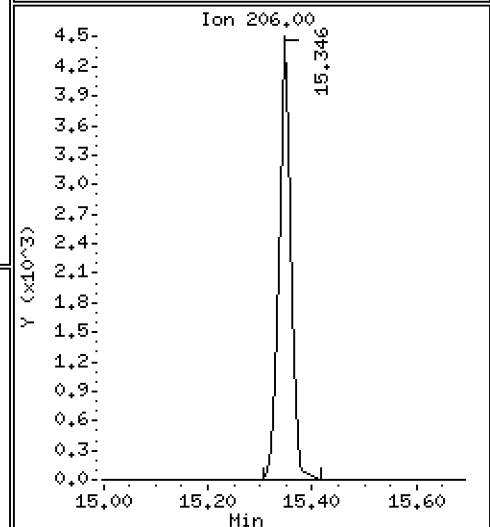
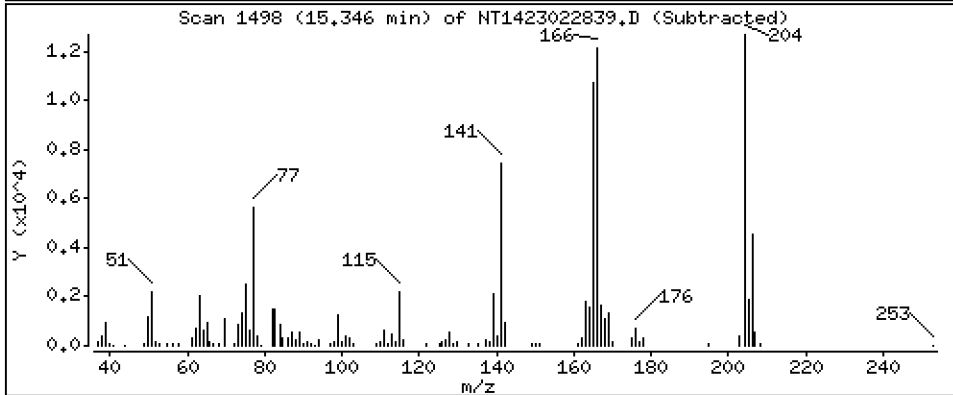
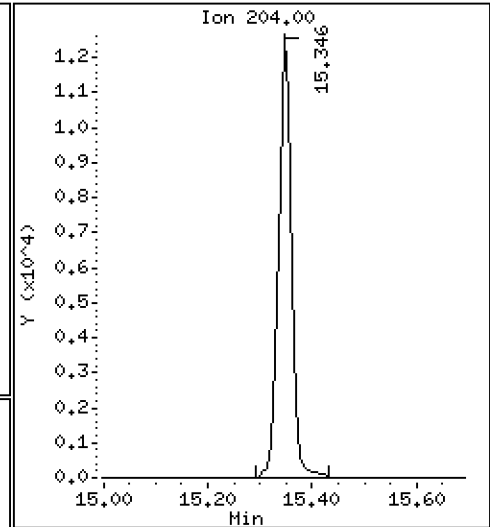
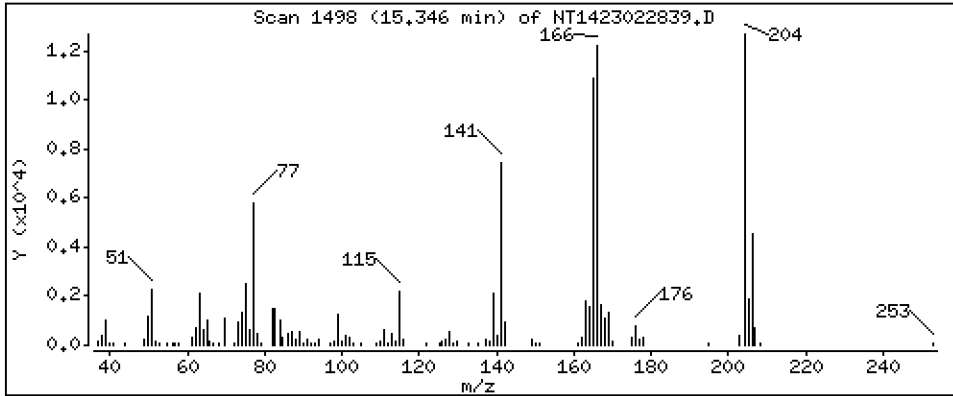
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,4945 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

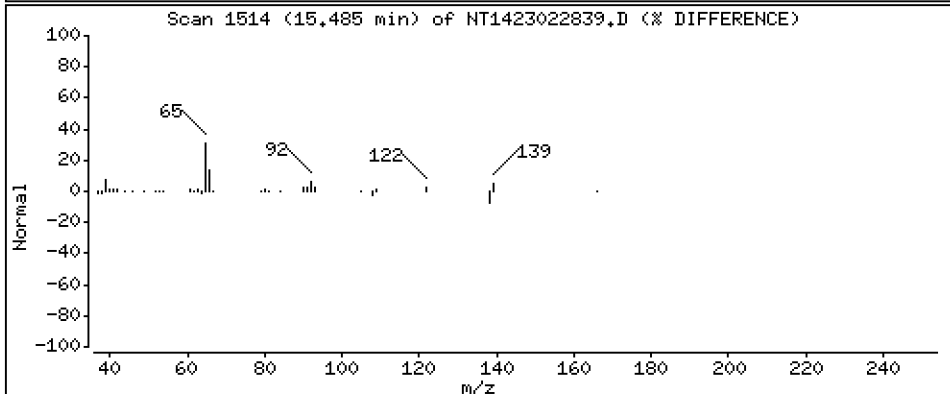
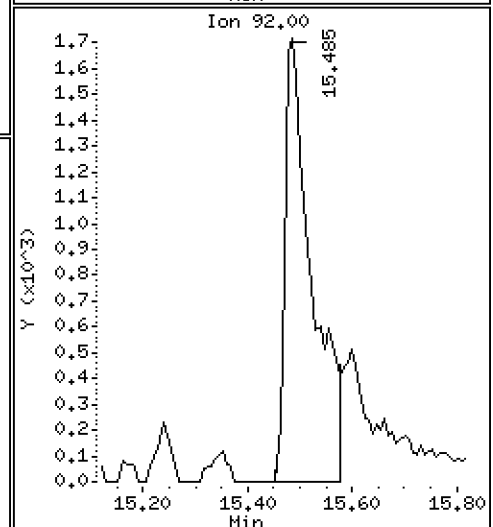
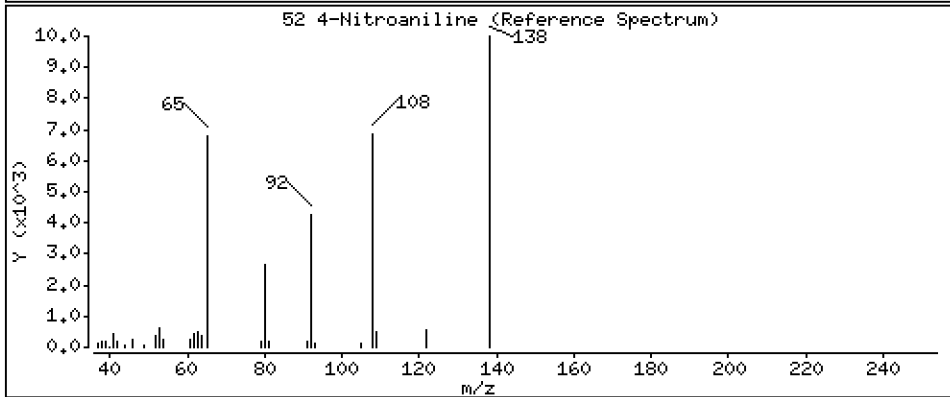
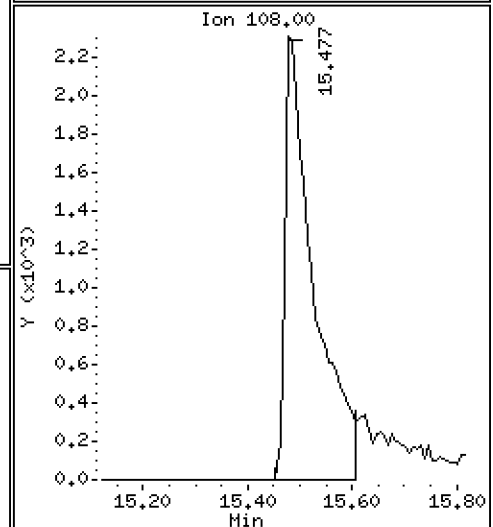
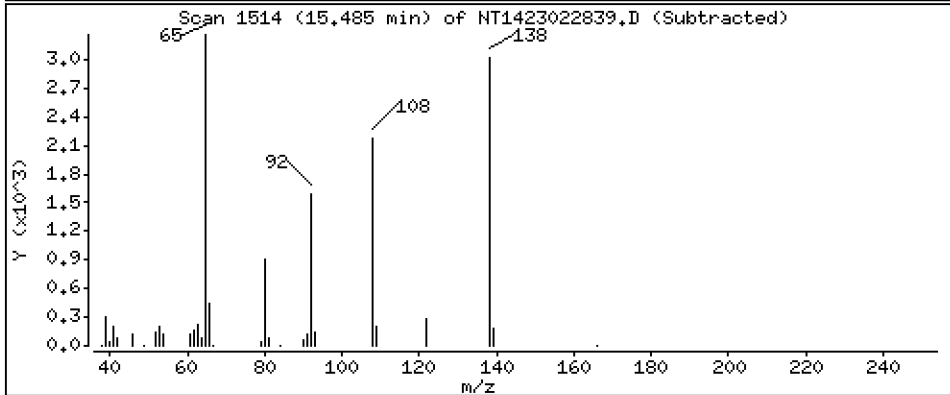
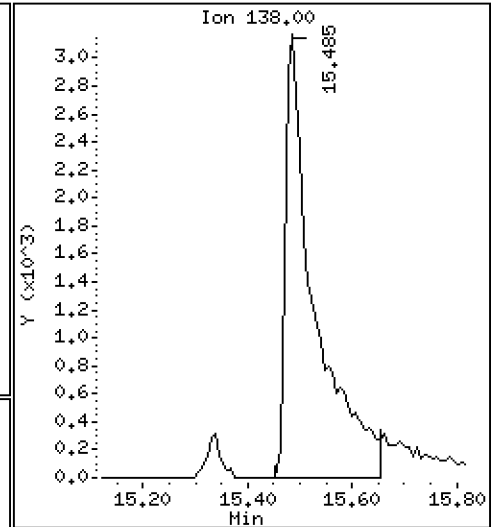
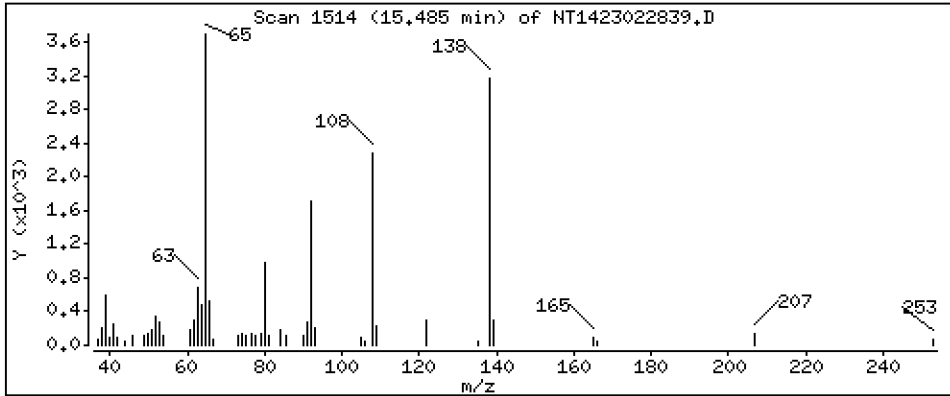
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,7157 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

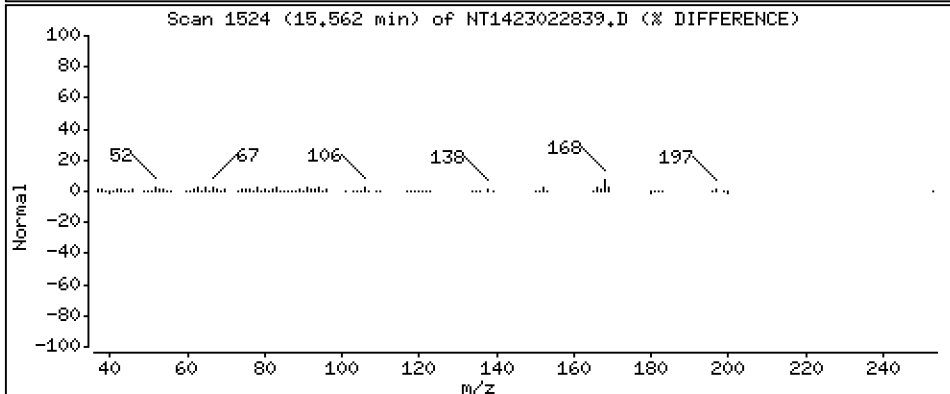
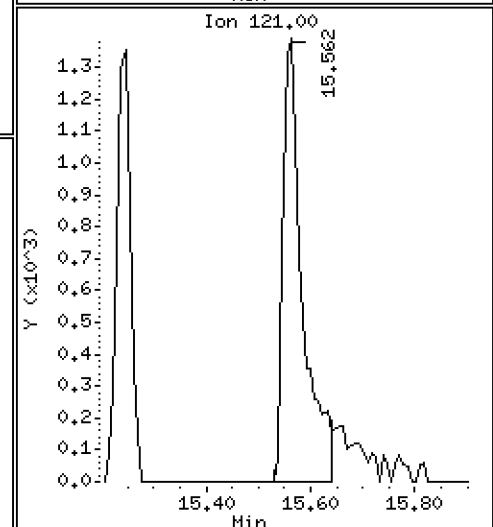
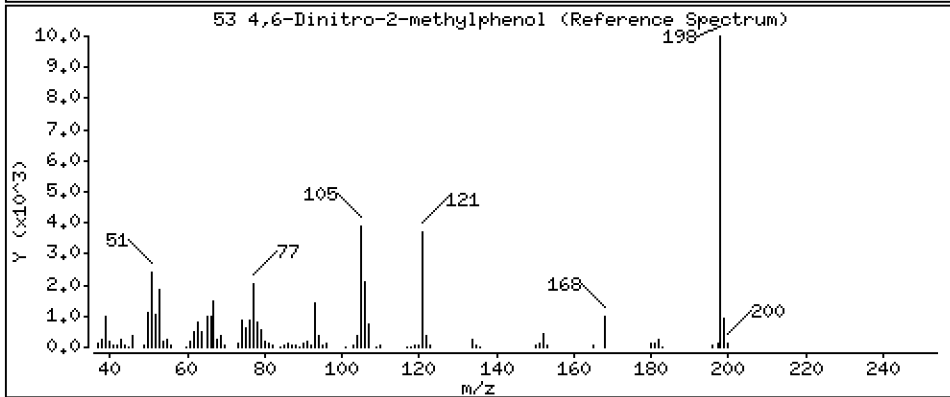
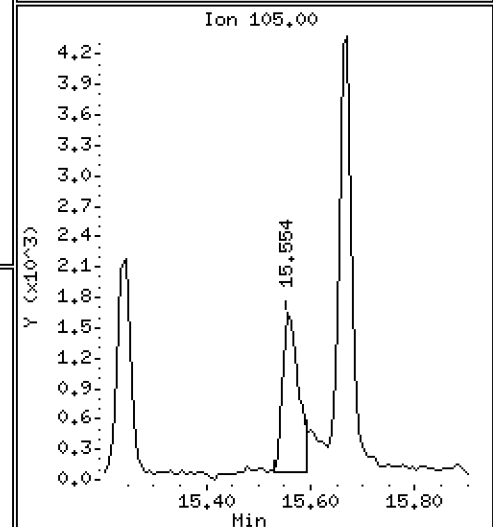
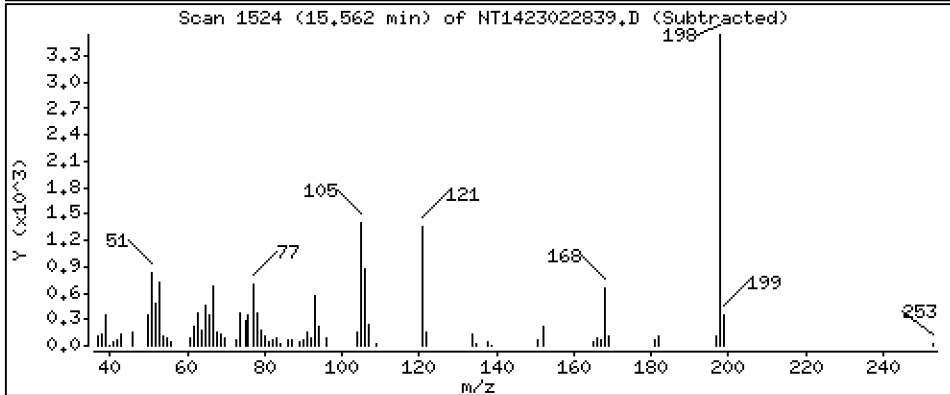
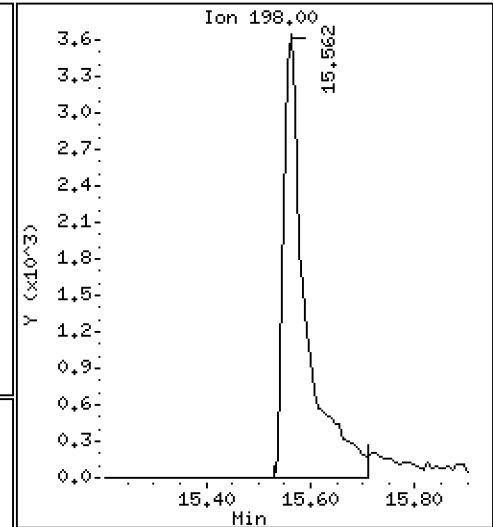
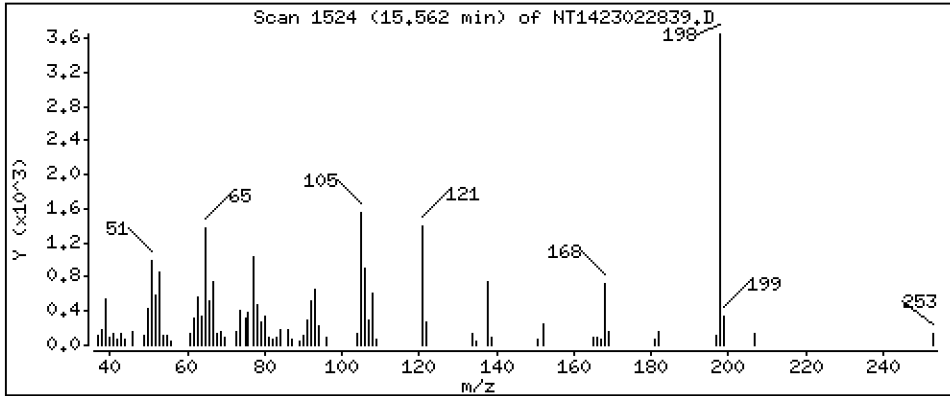
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,7601 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

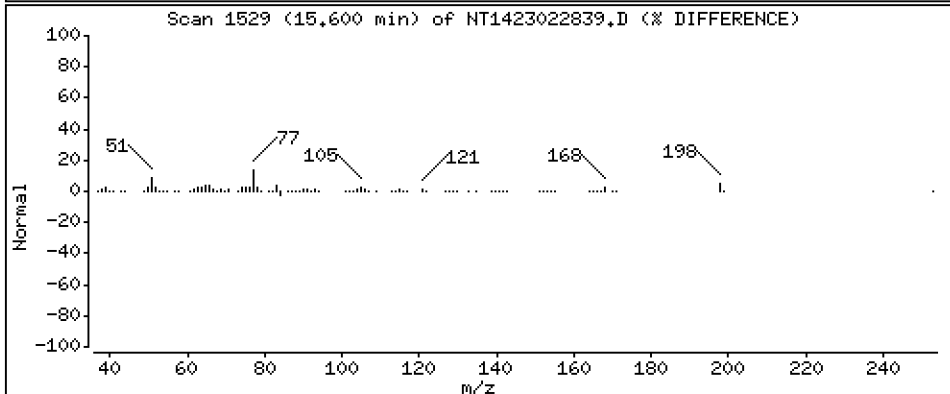
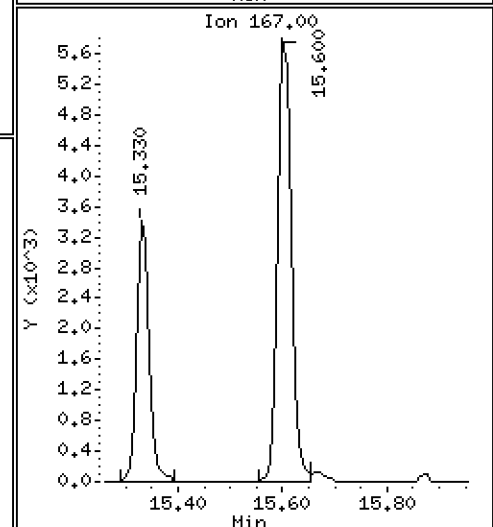
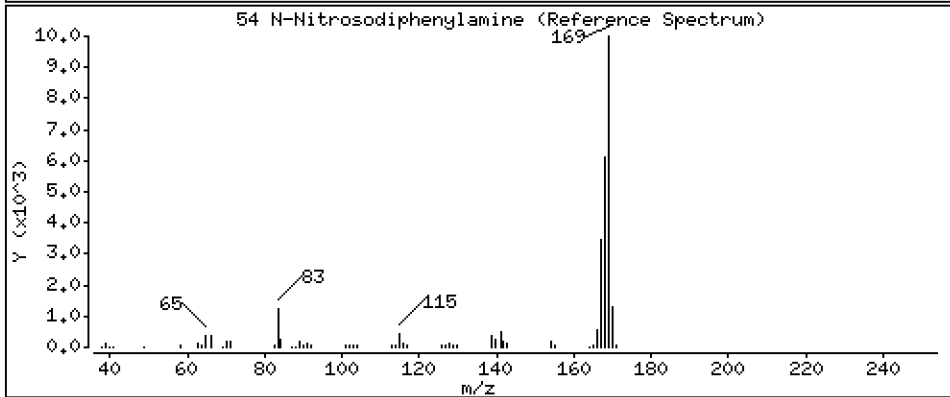
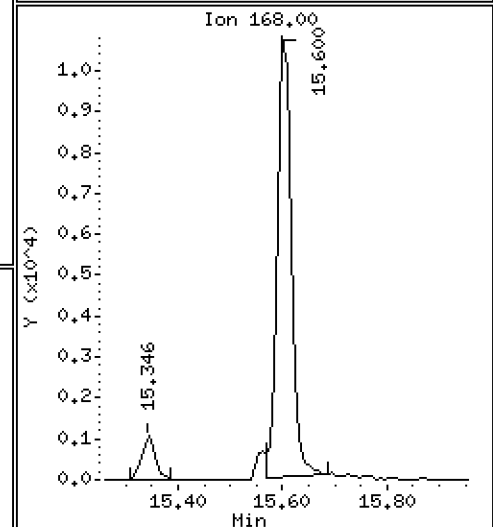
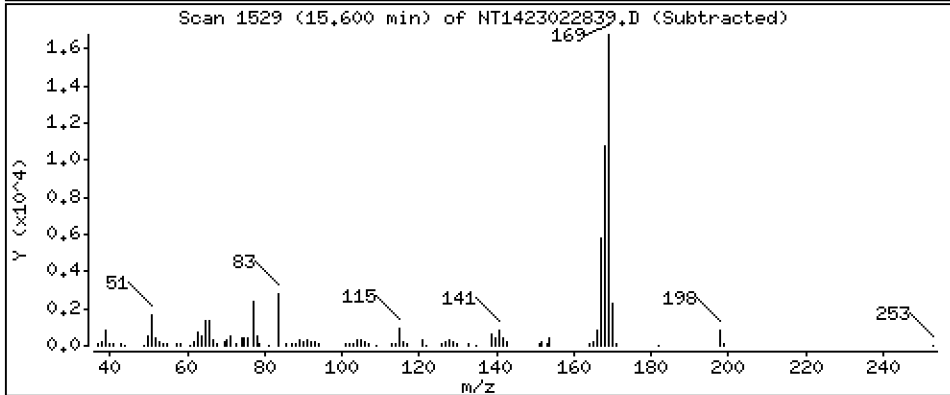
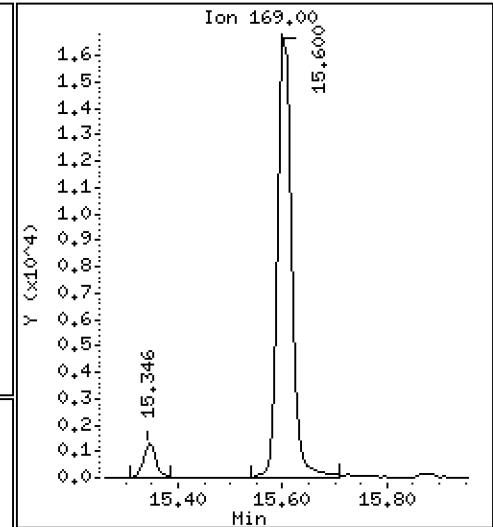
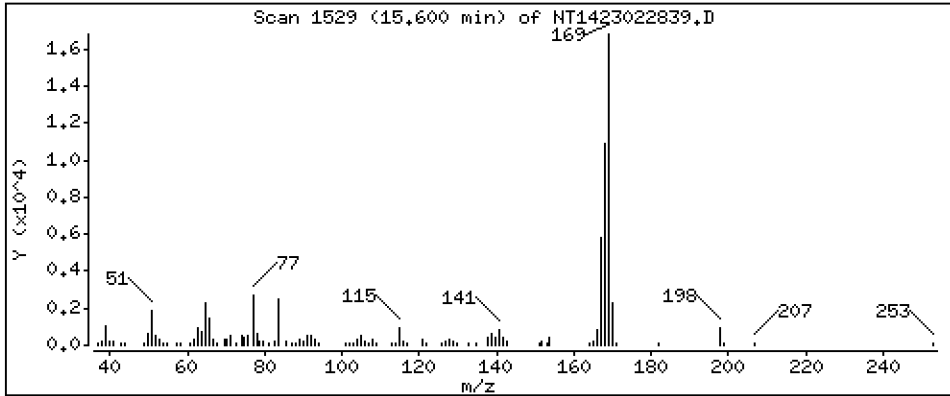
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,5643 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

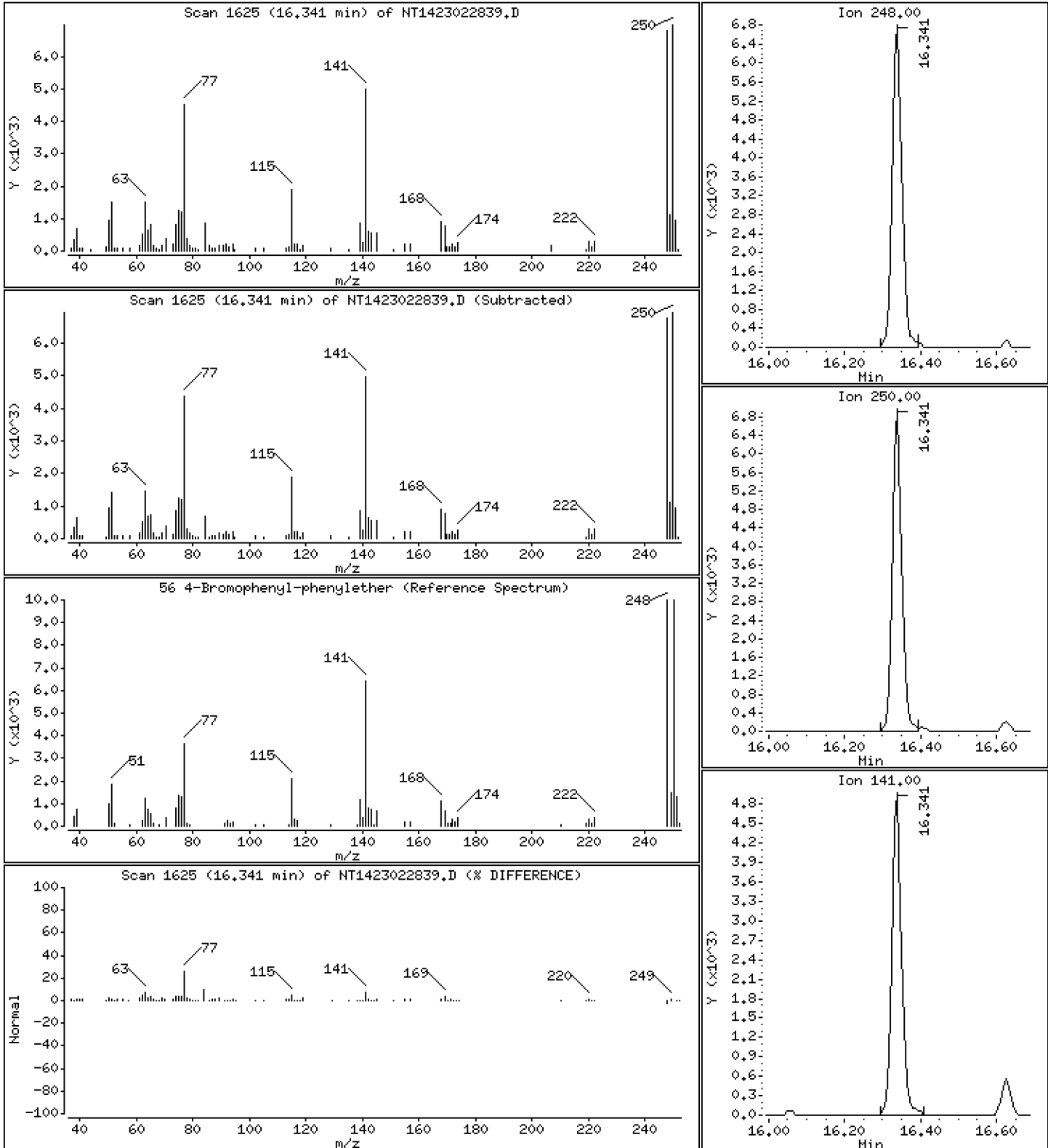
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,5071 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

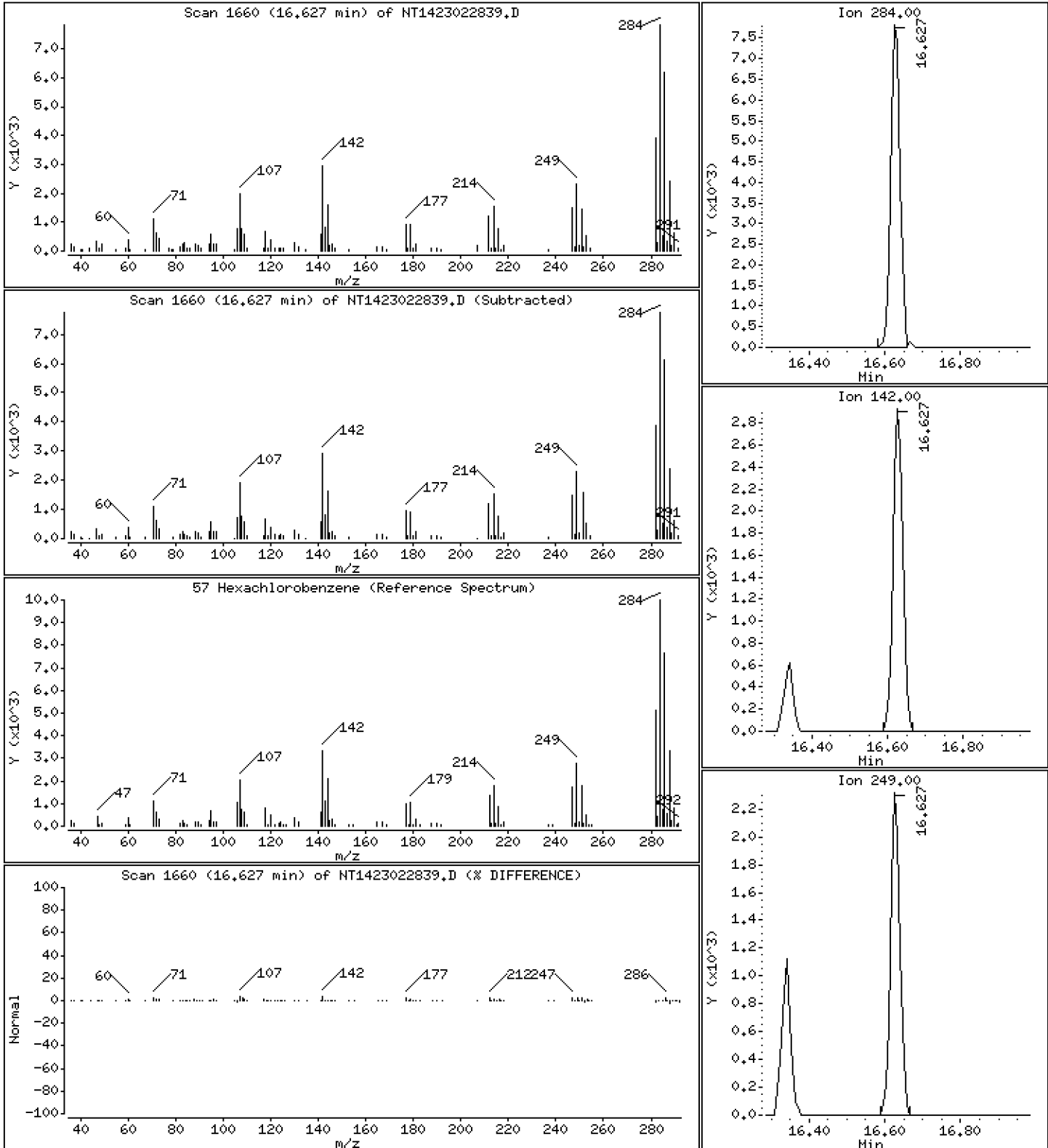
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 0.5253 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

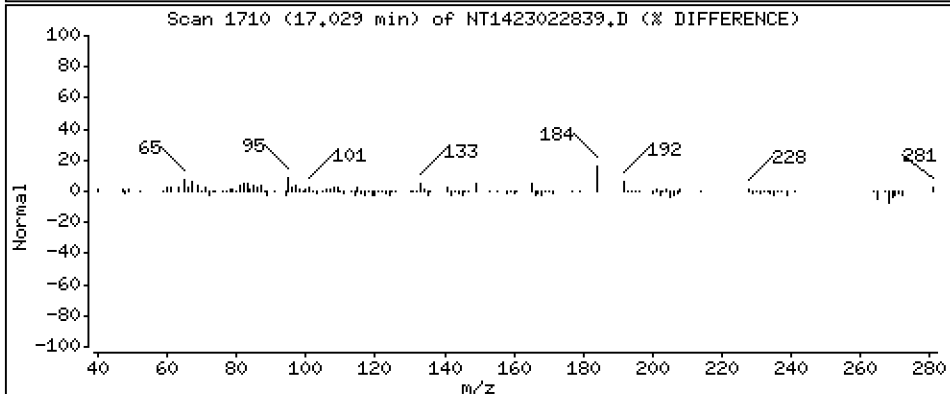
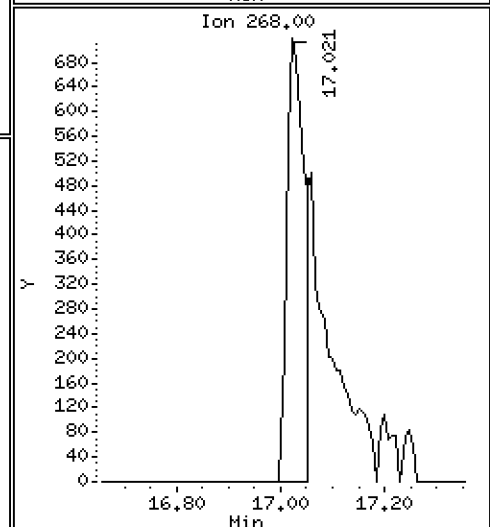
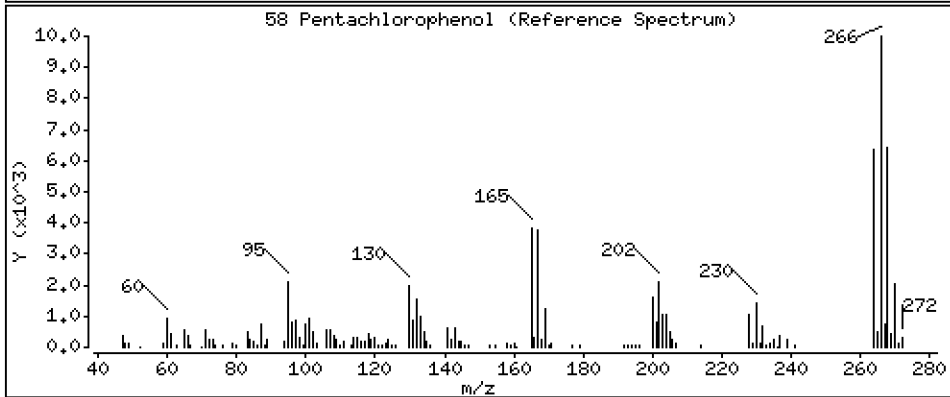
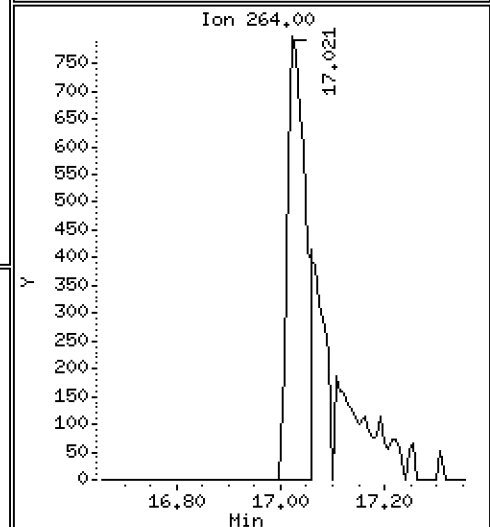
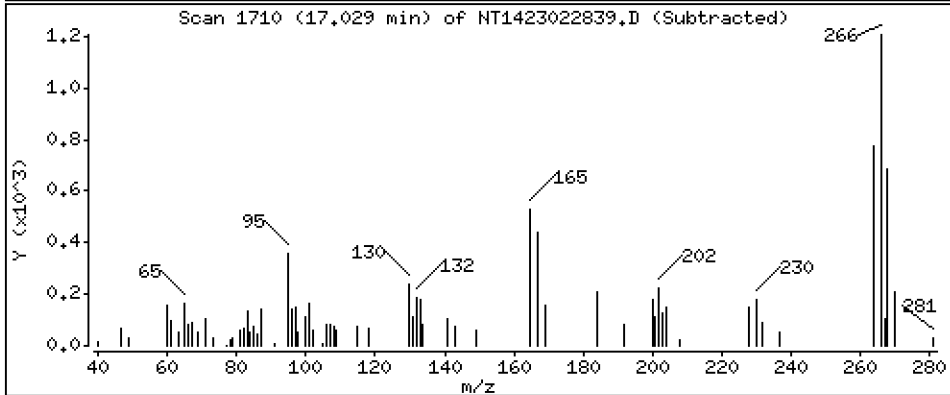
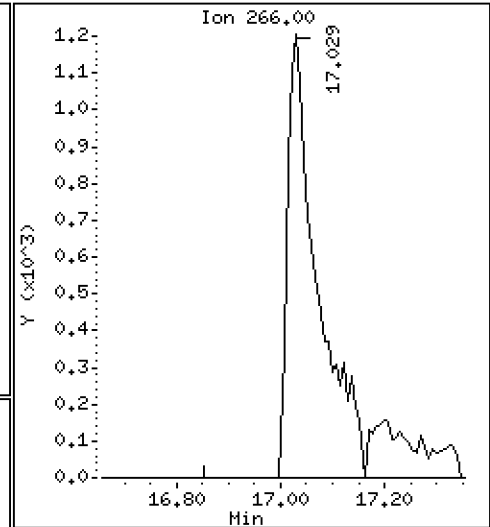
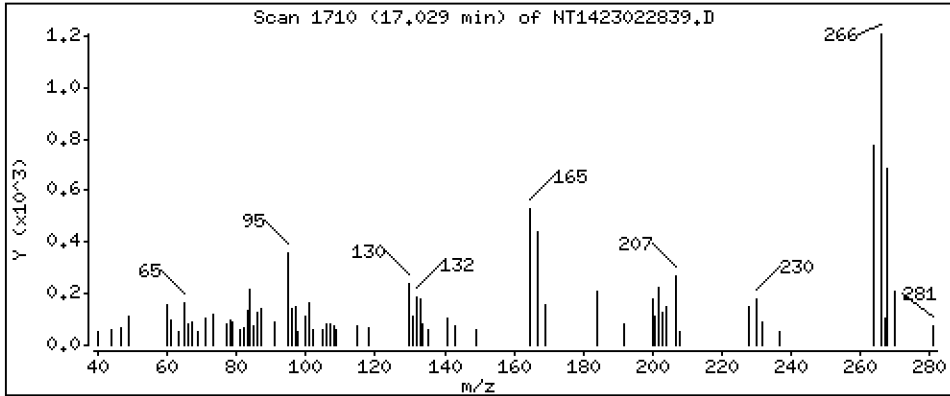
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

58 Pentachlorophenol

Concentration: 0.5024 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

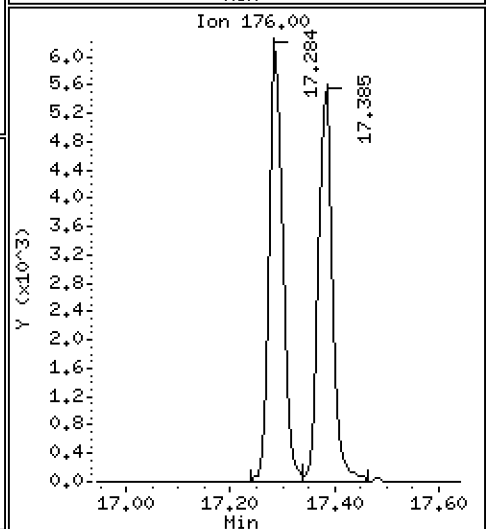
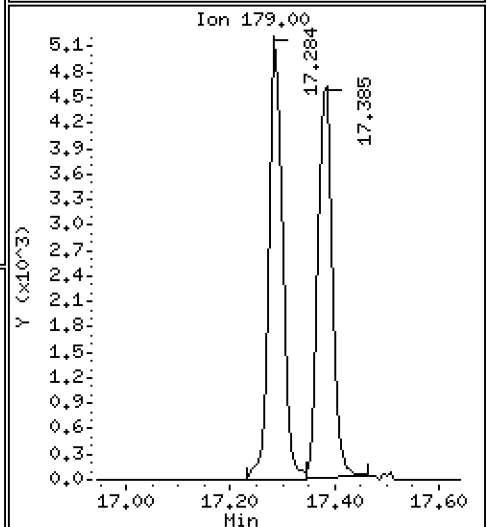
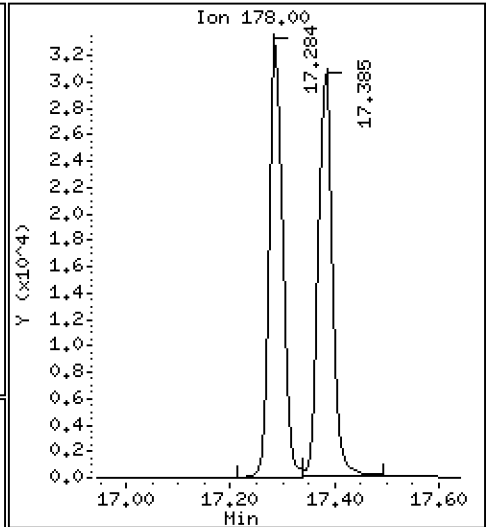
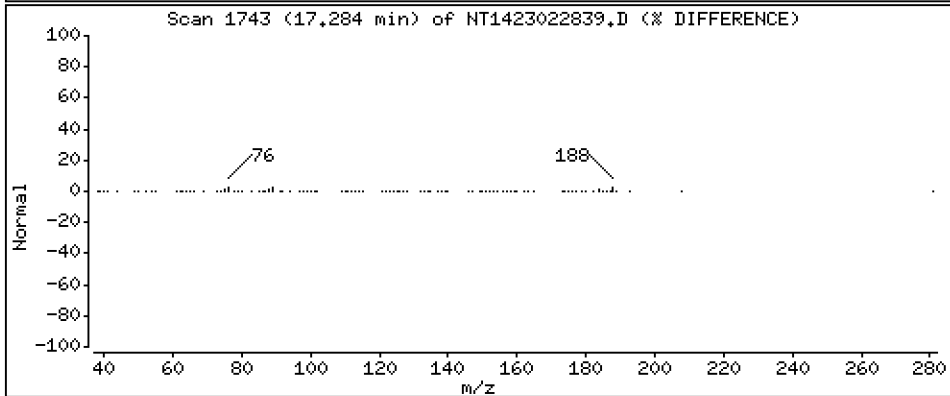
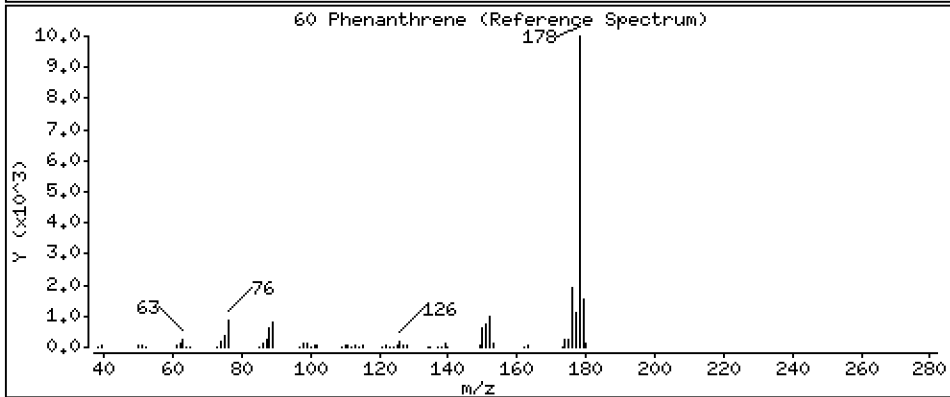
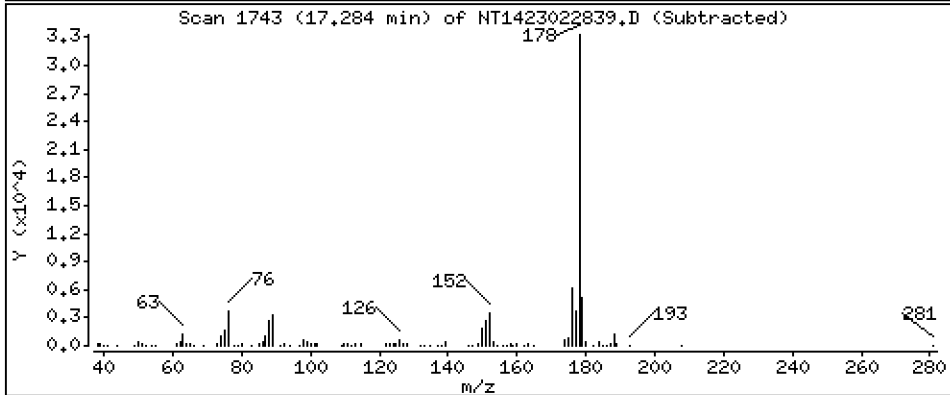
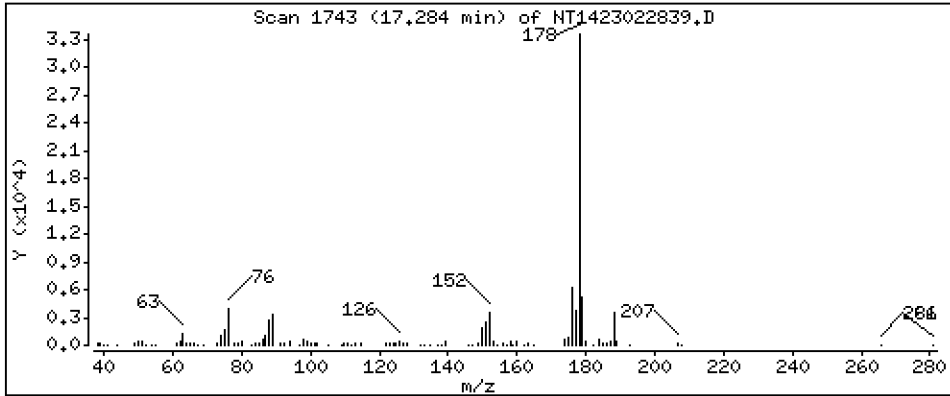
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,5152 ug/mL





Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

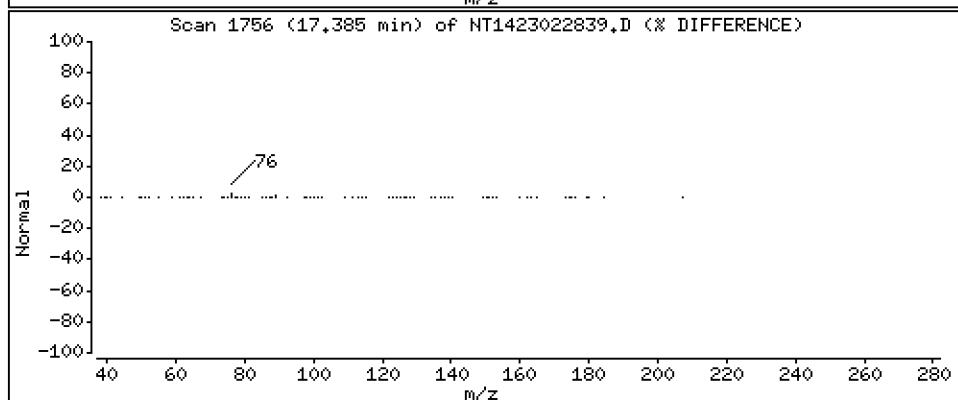
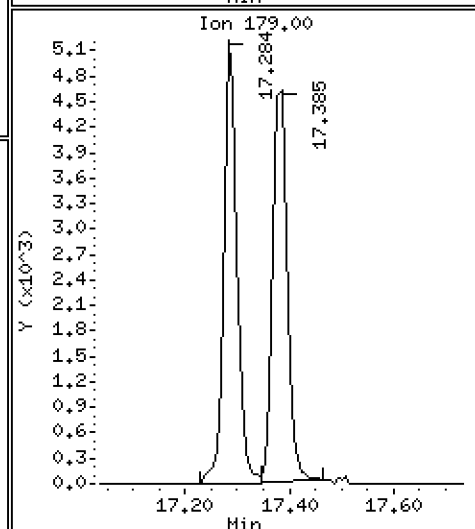
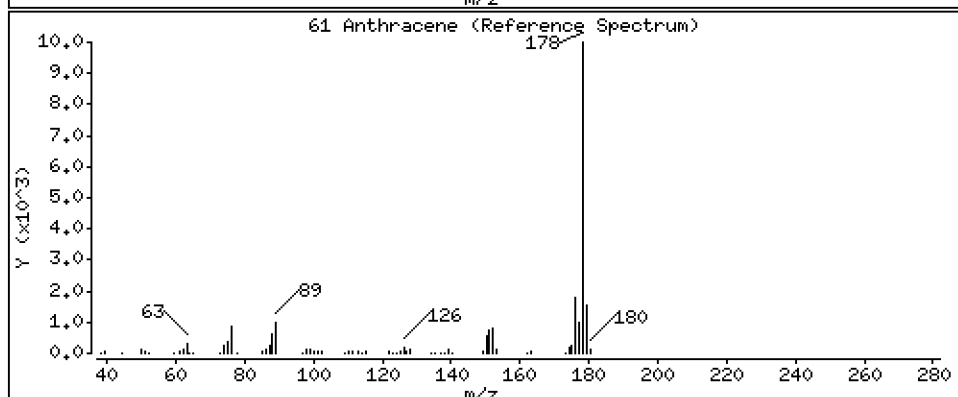
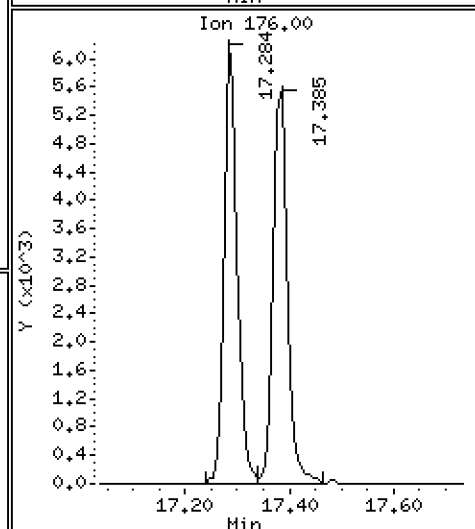
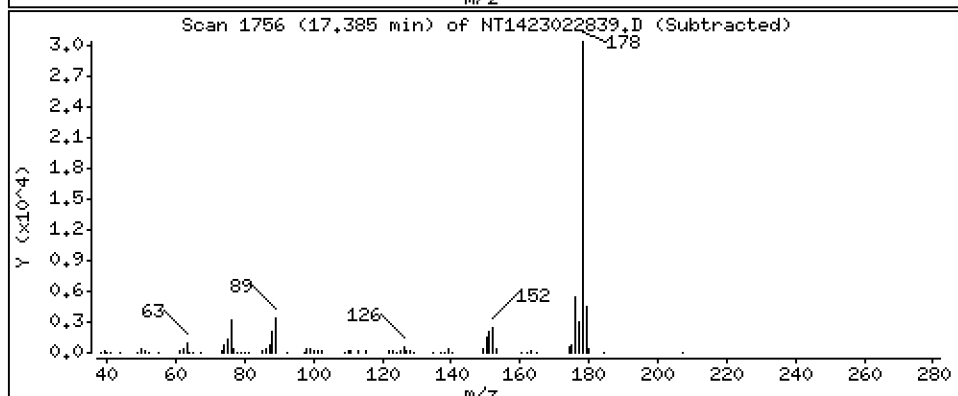
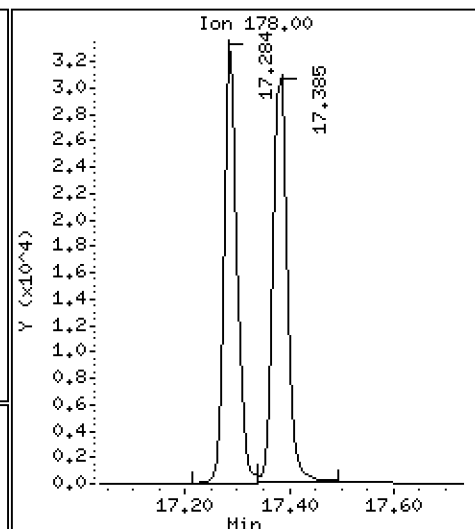
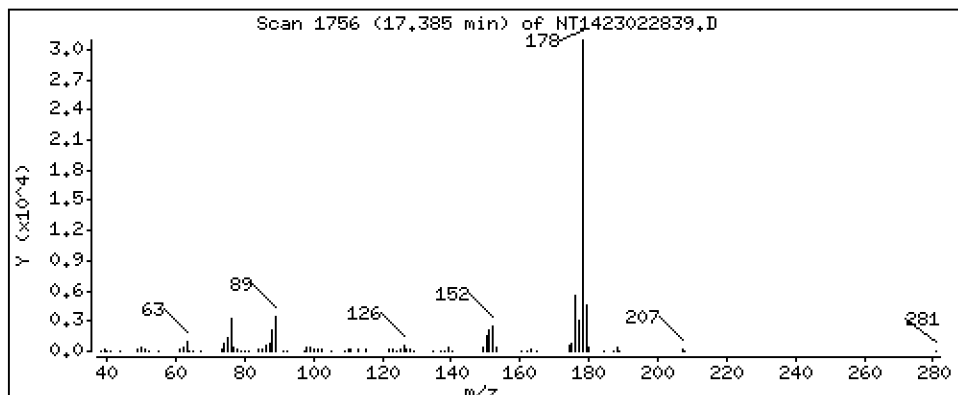
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,5316 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

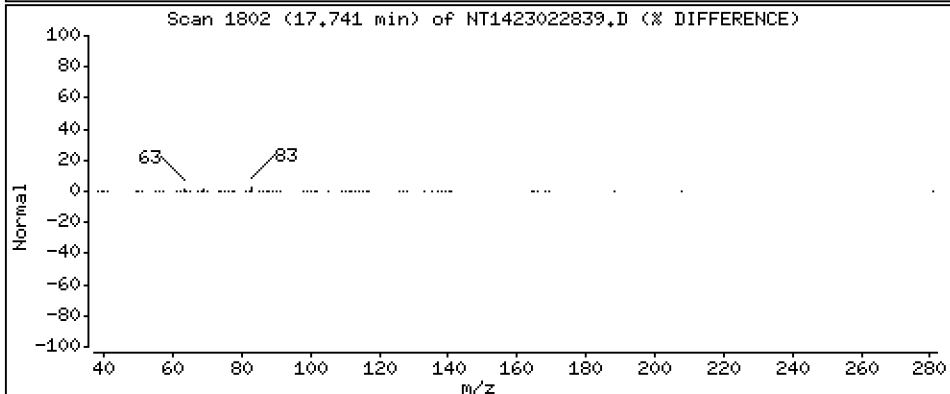
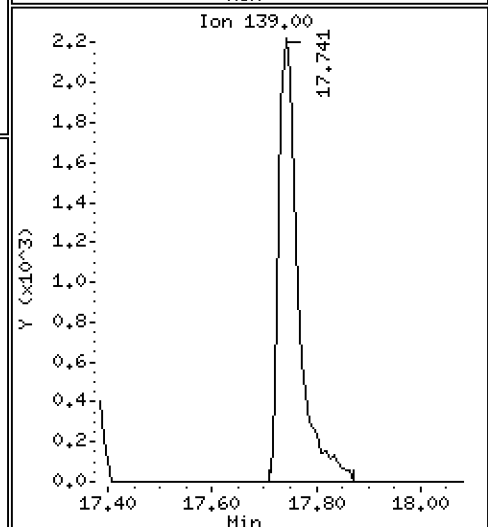
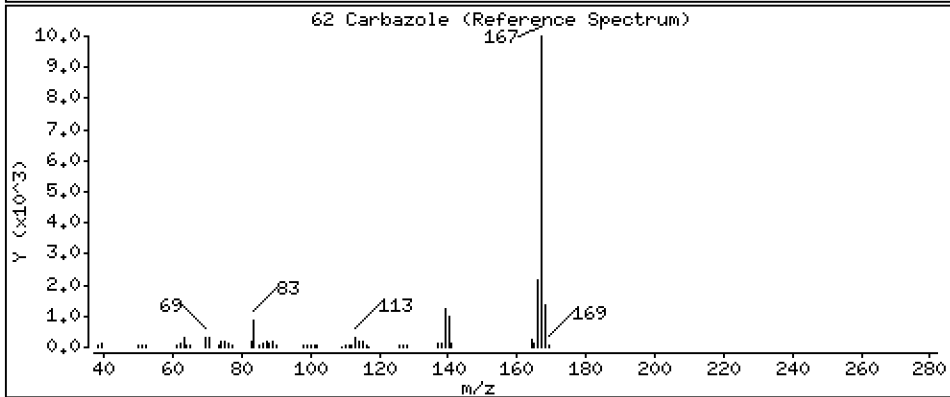
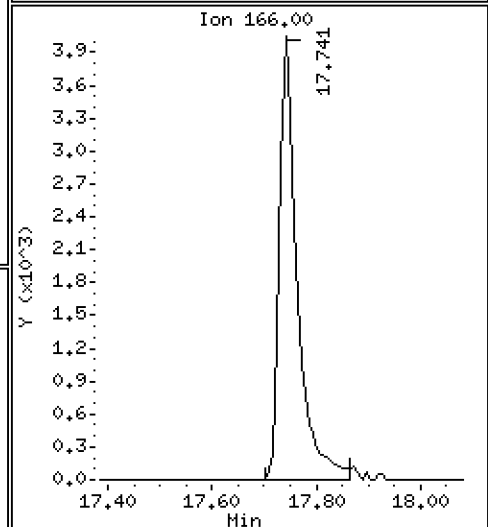
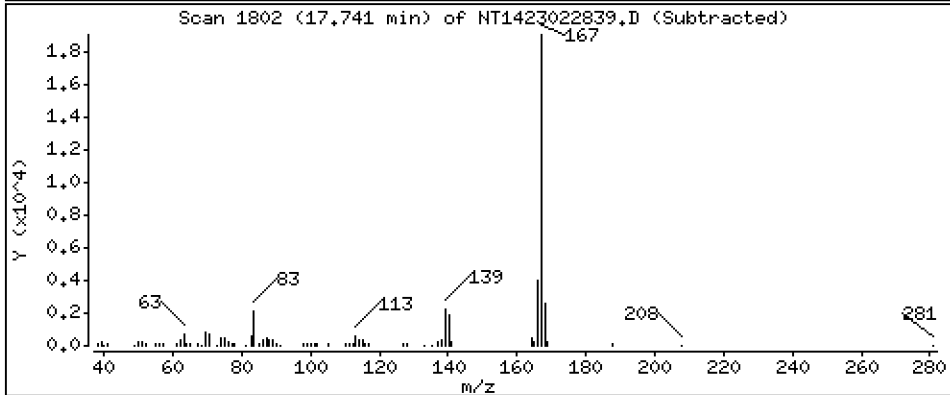
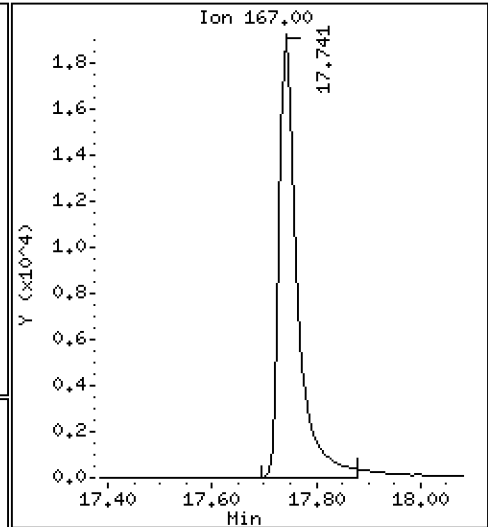
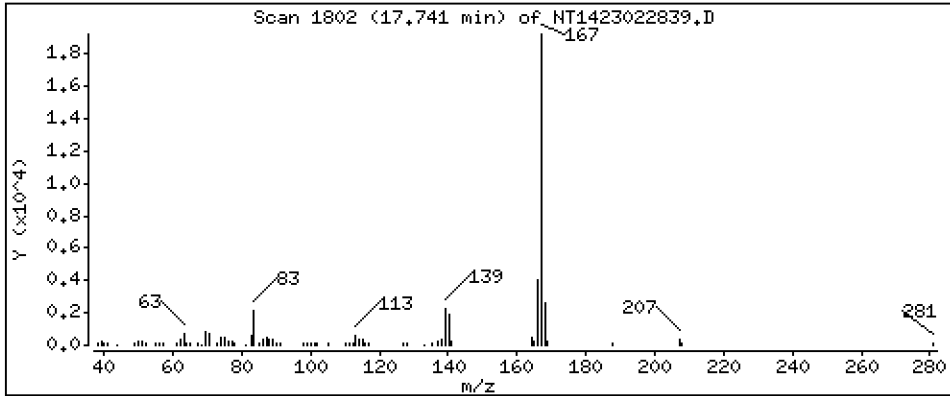
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,4911 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

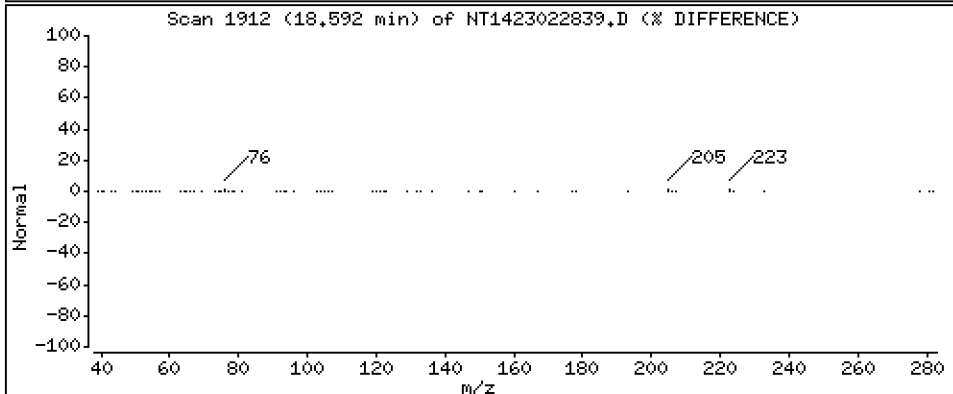
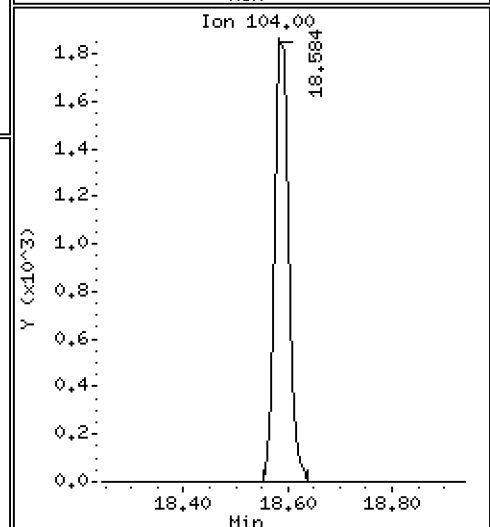
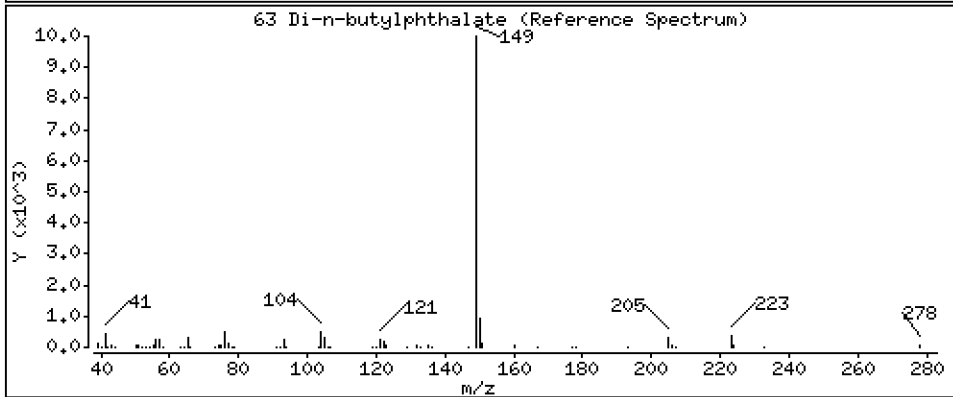
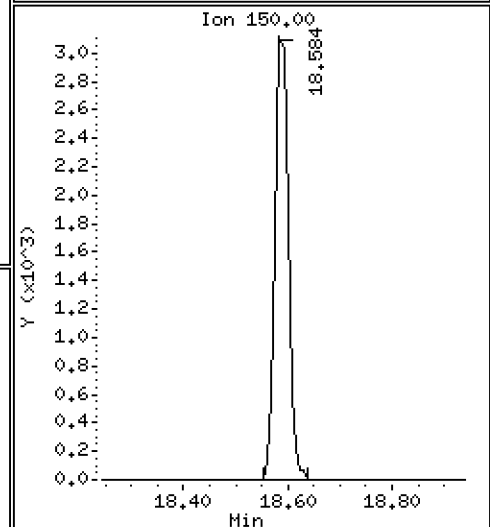
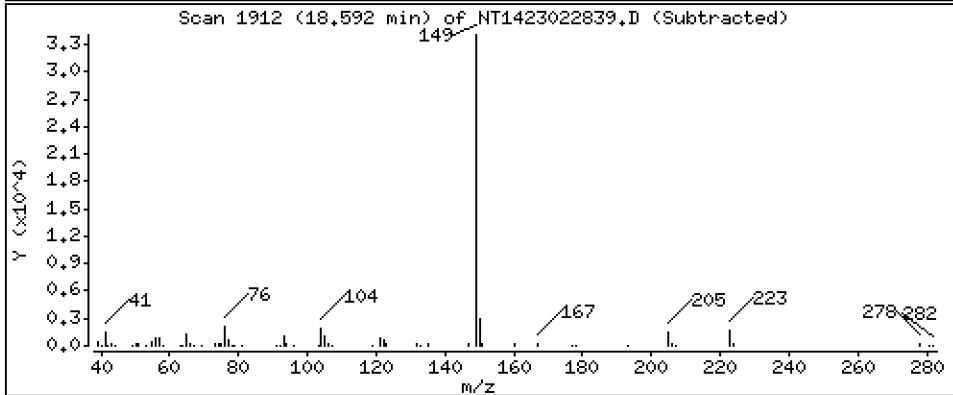
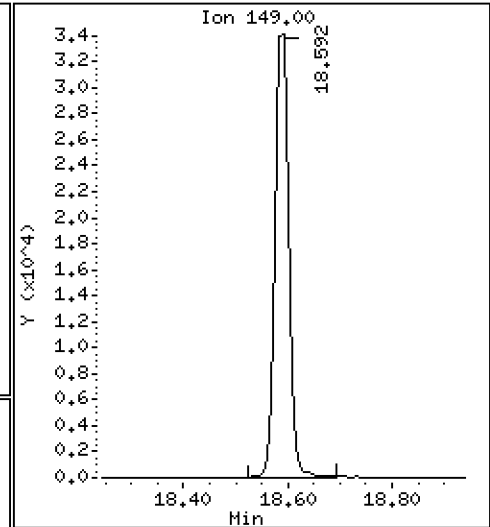
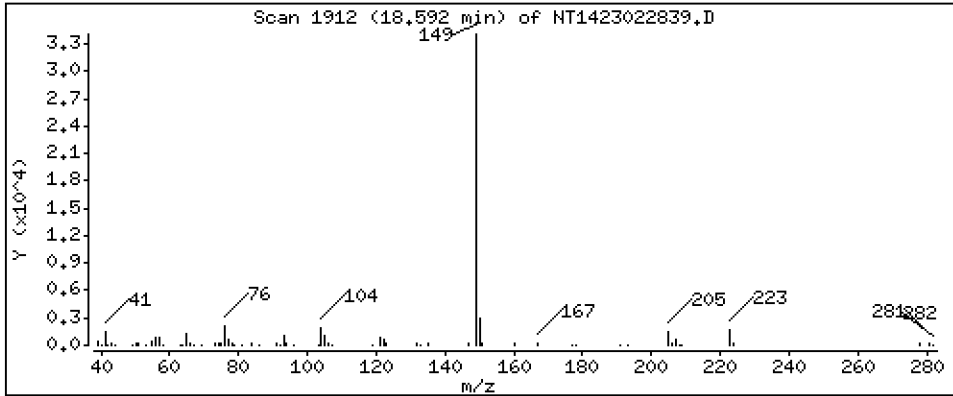
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,4957 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

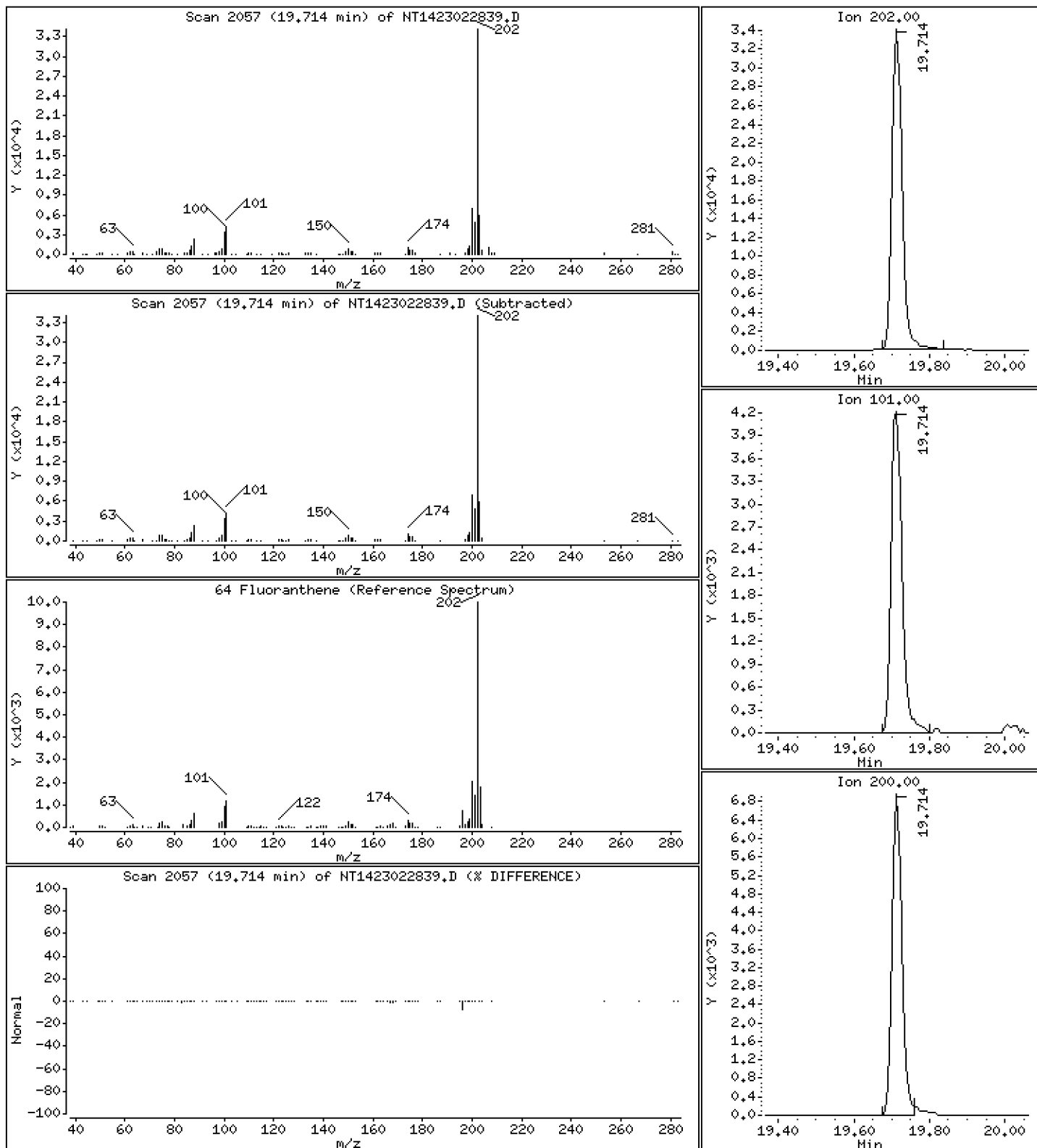
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,4678 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

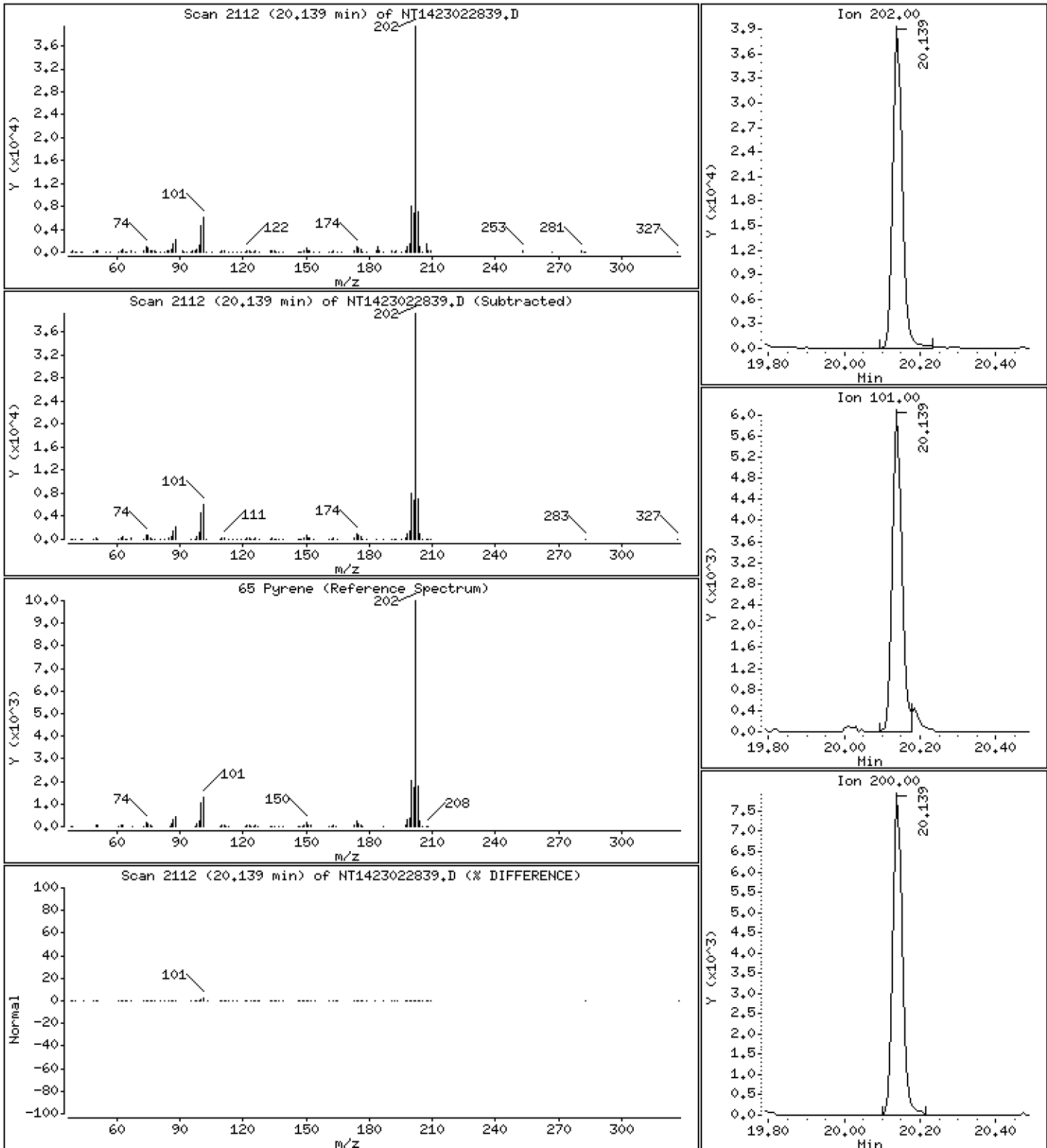
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,4742 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

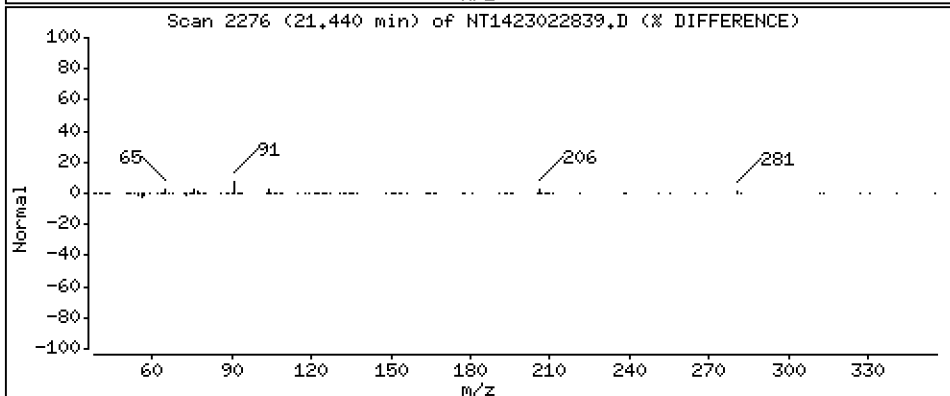
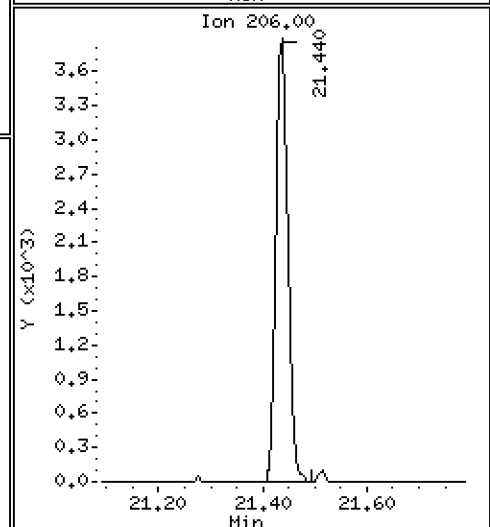
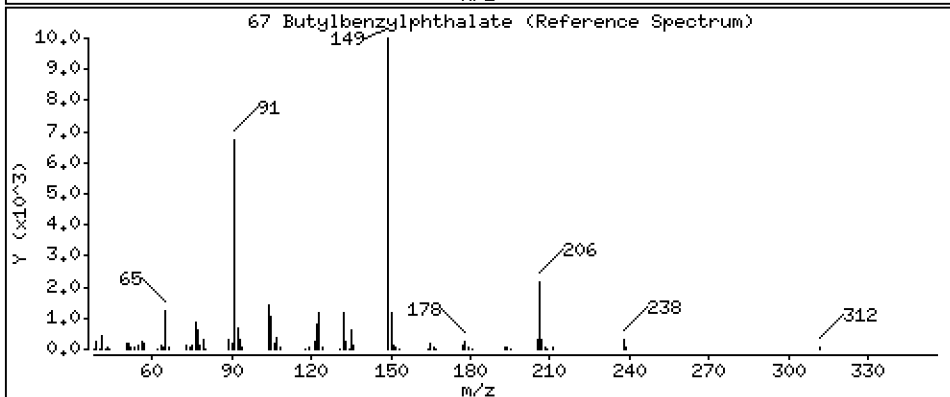
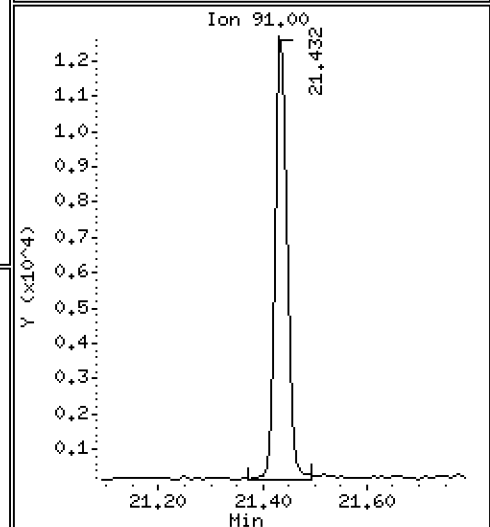
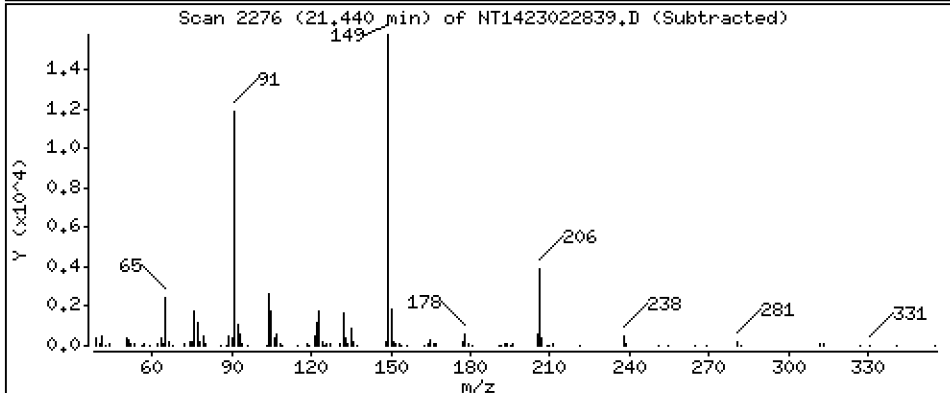
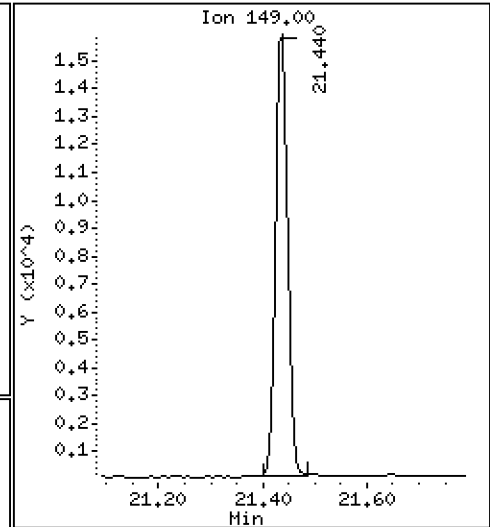
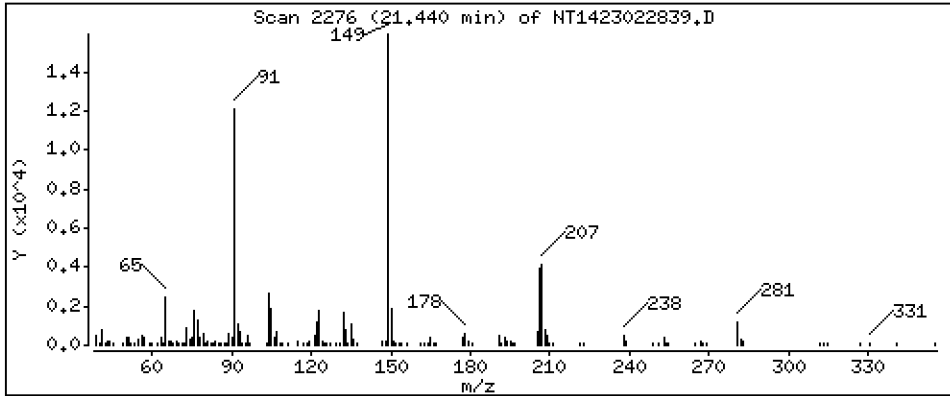
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,5034 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

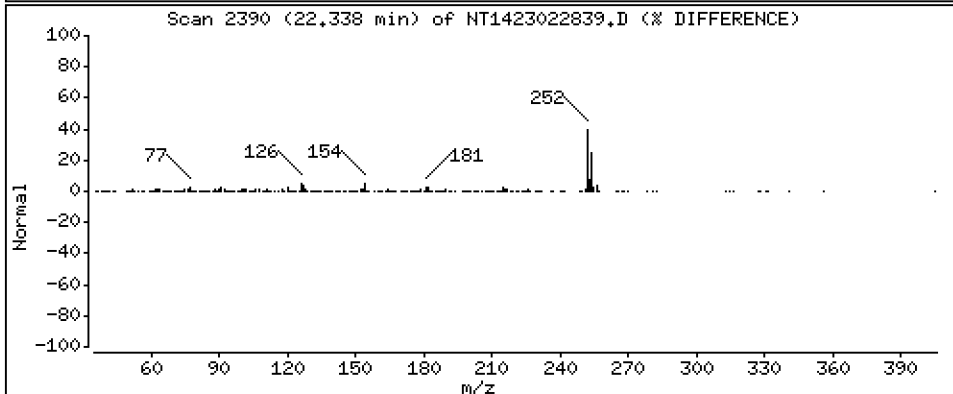
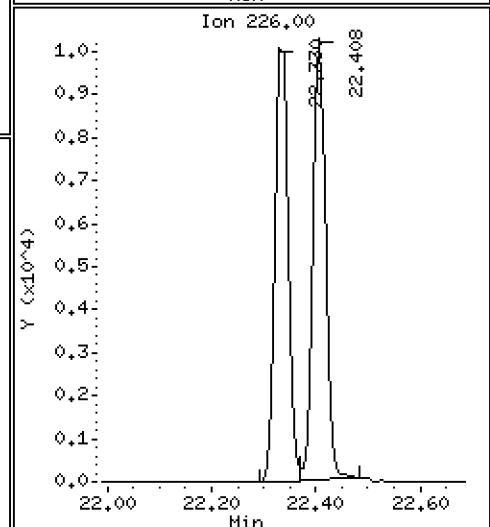
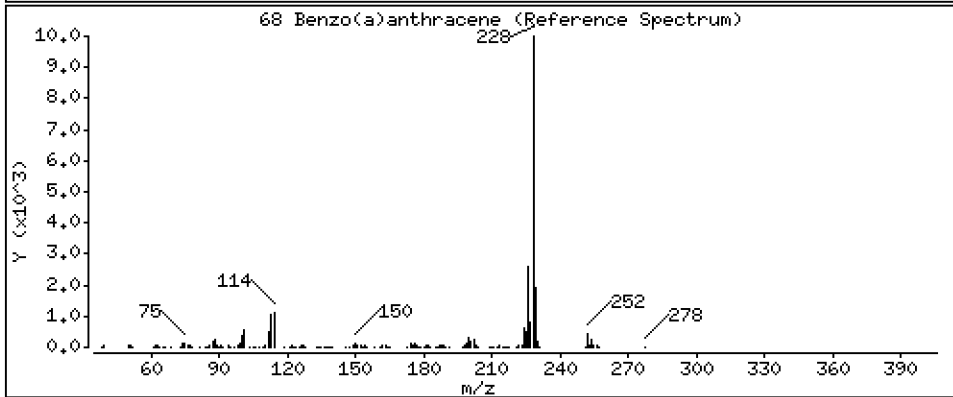
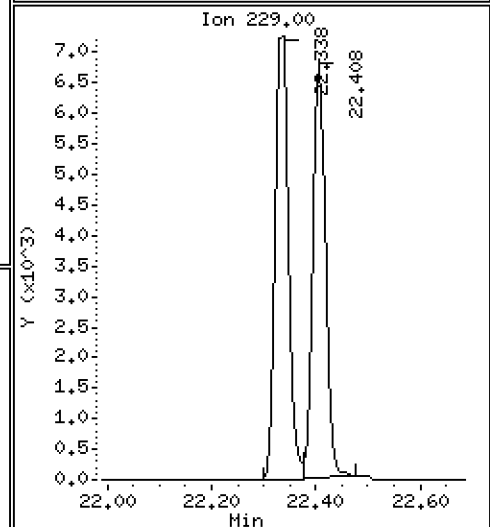
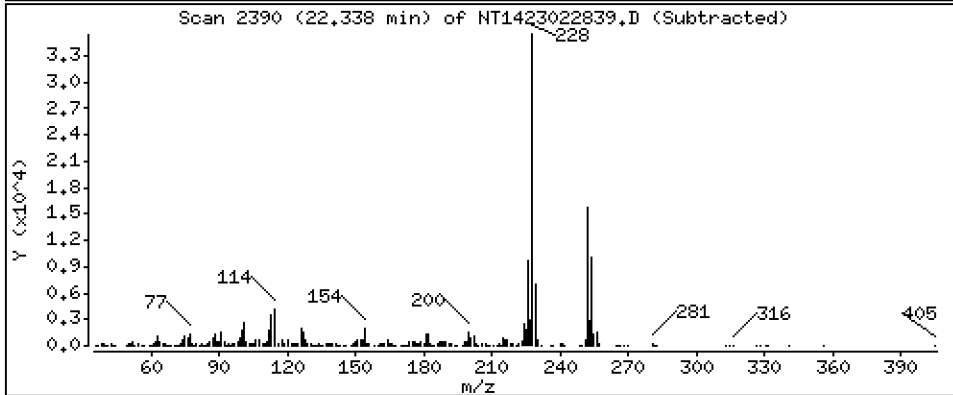
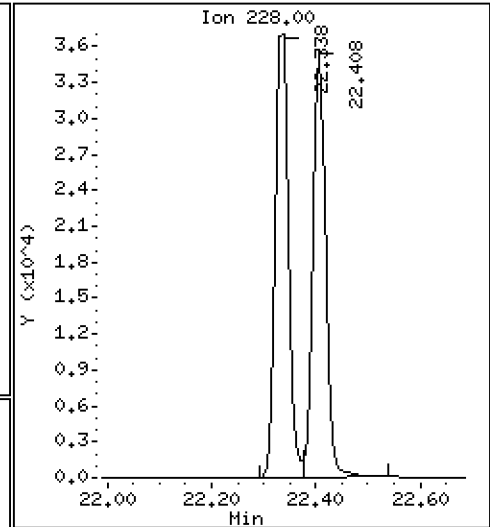
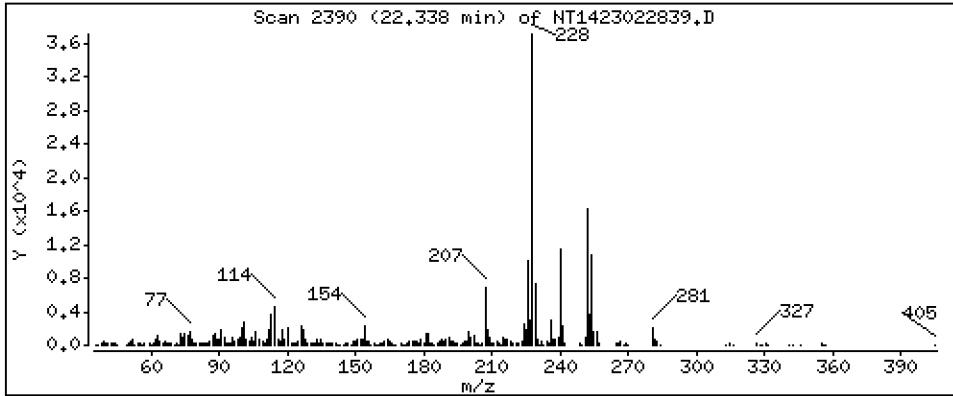
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,5467 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

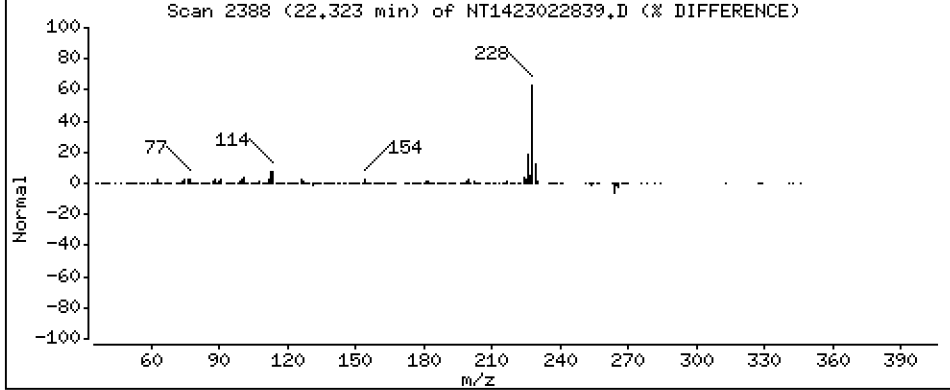
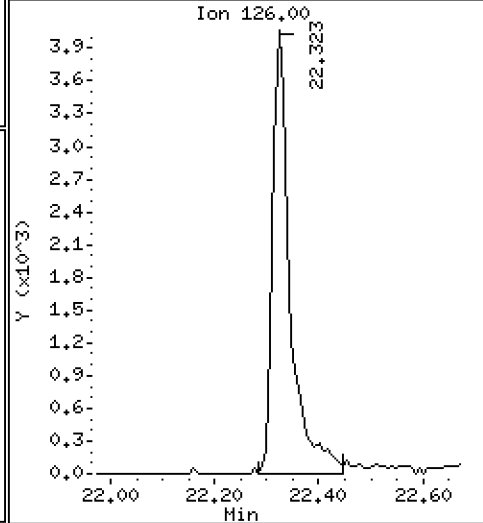
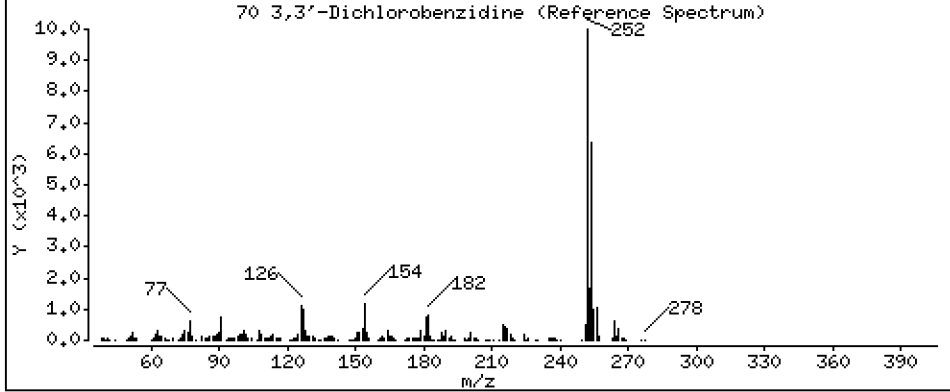
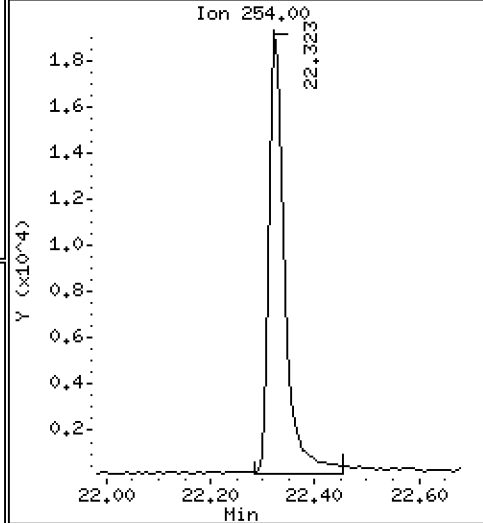
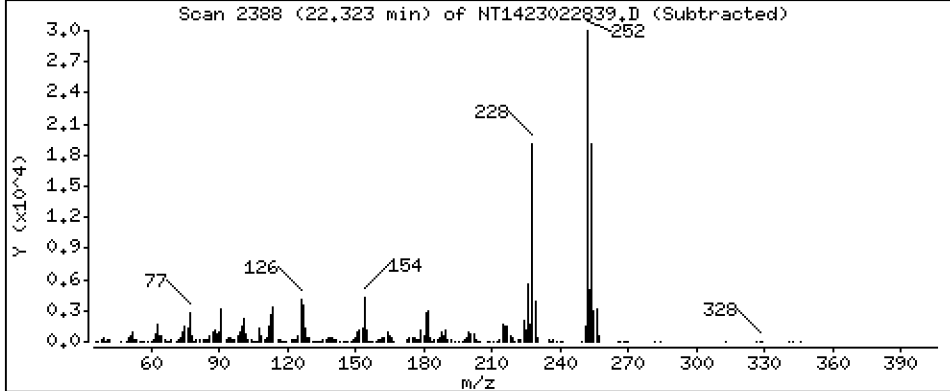
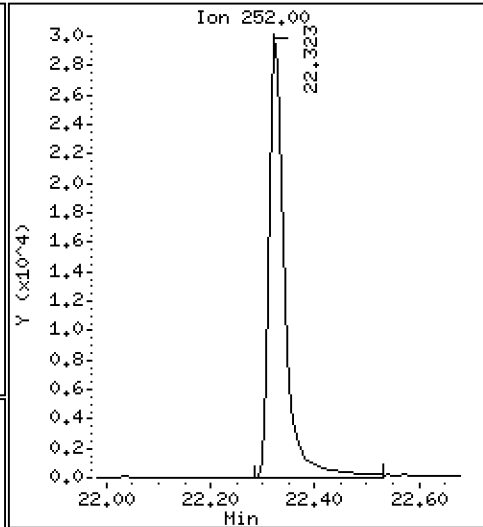
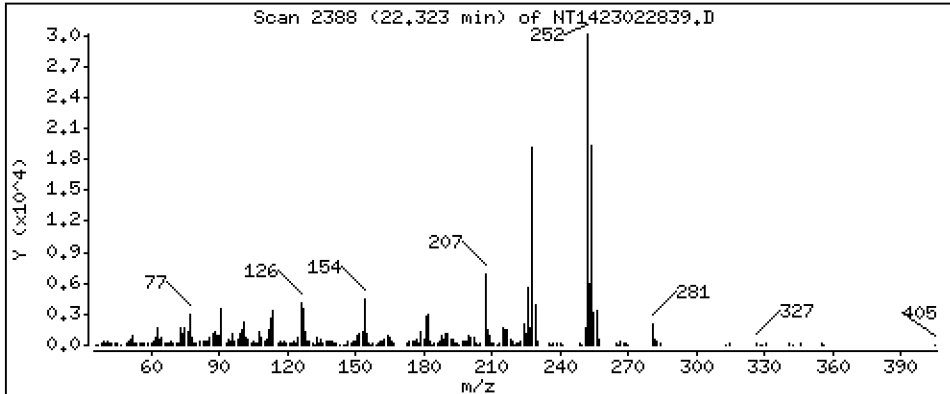
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 1,896 ug/mL





Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

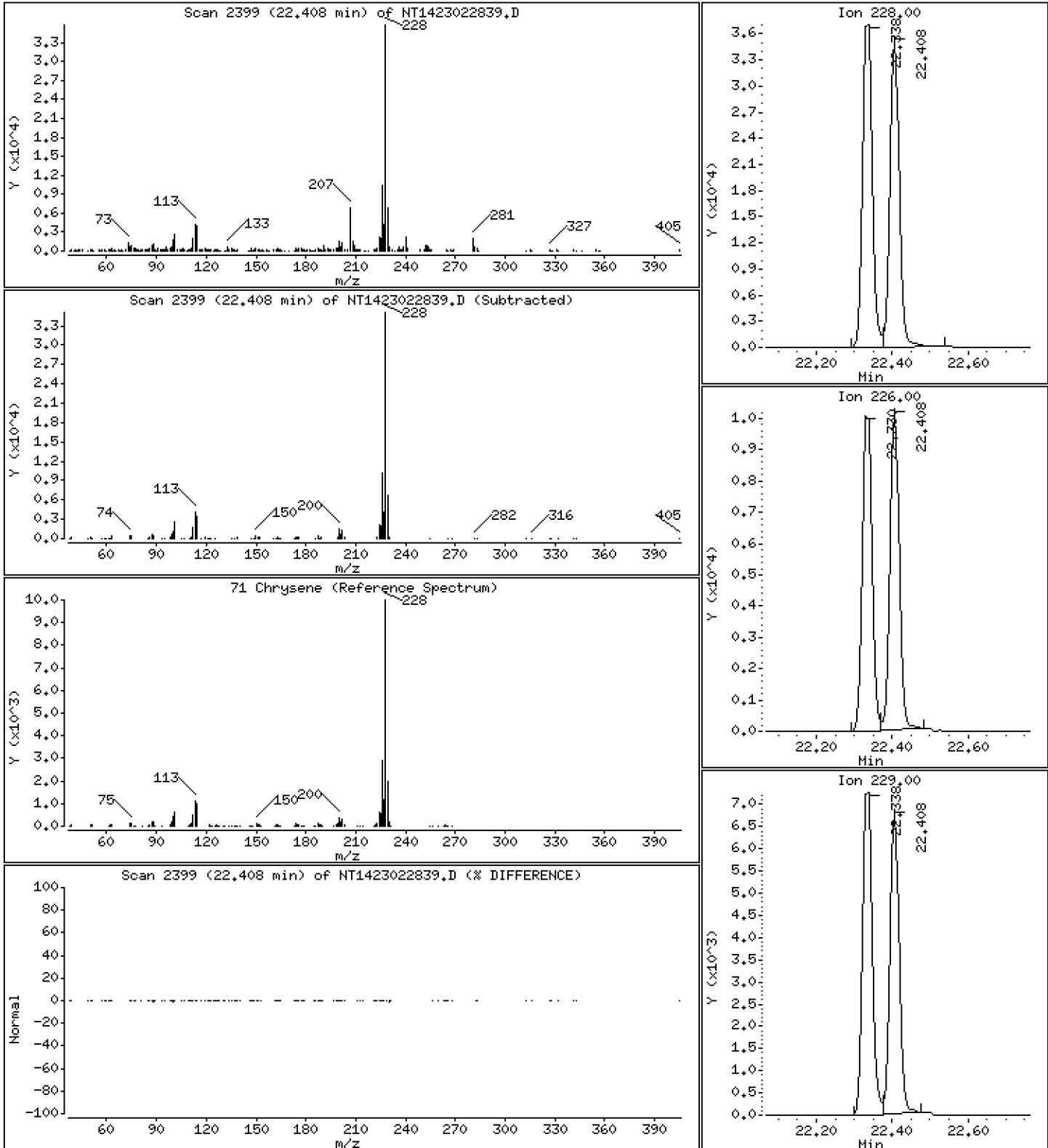
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,5253 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

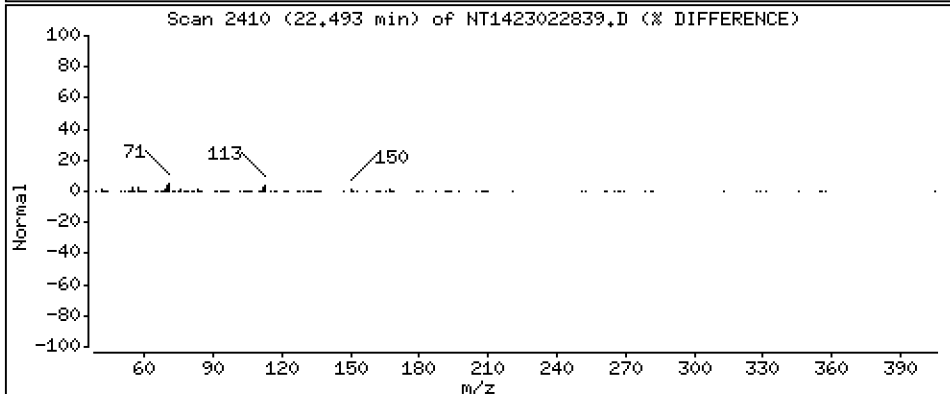
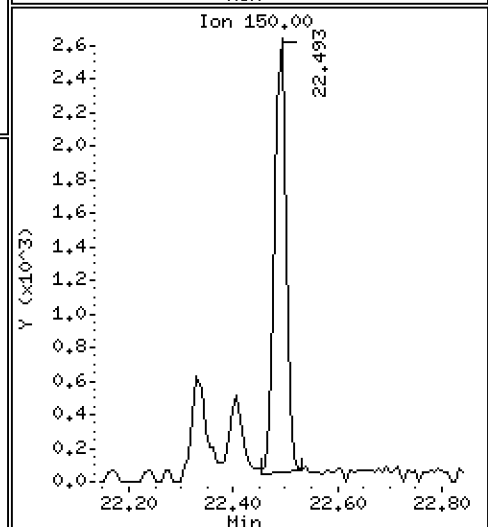
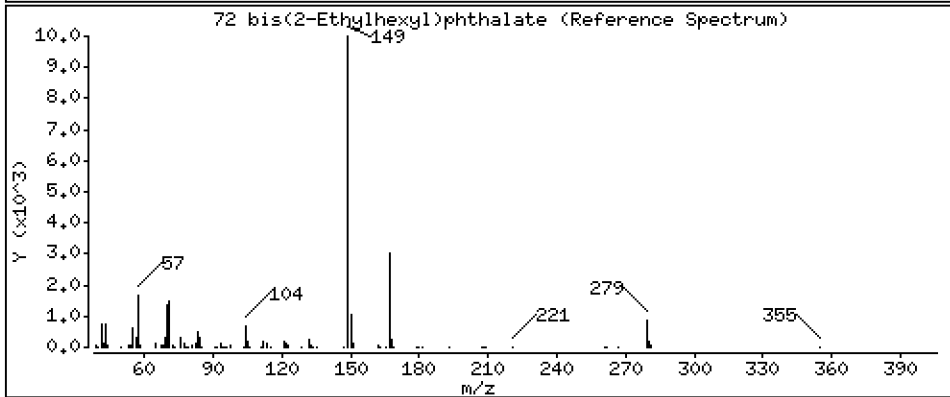
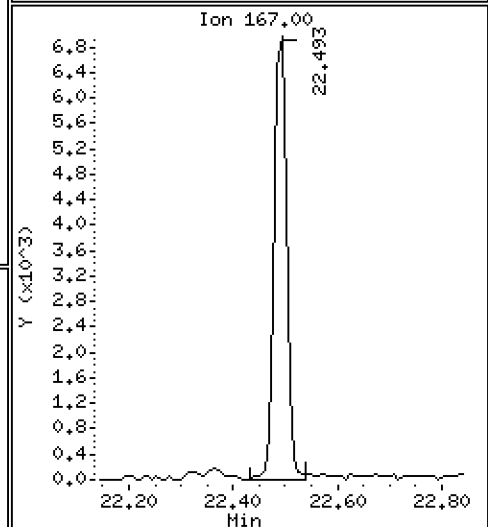
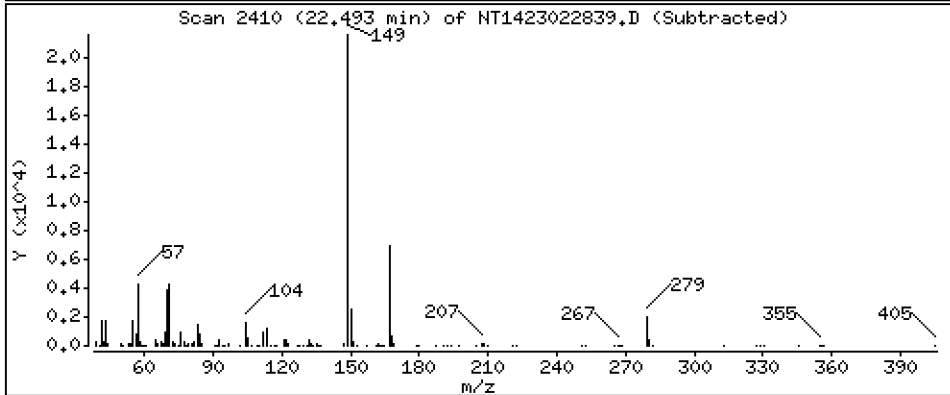
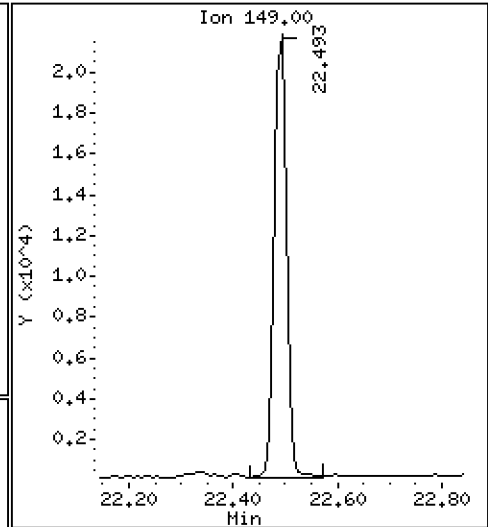
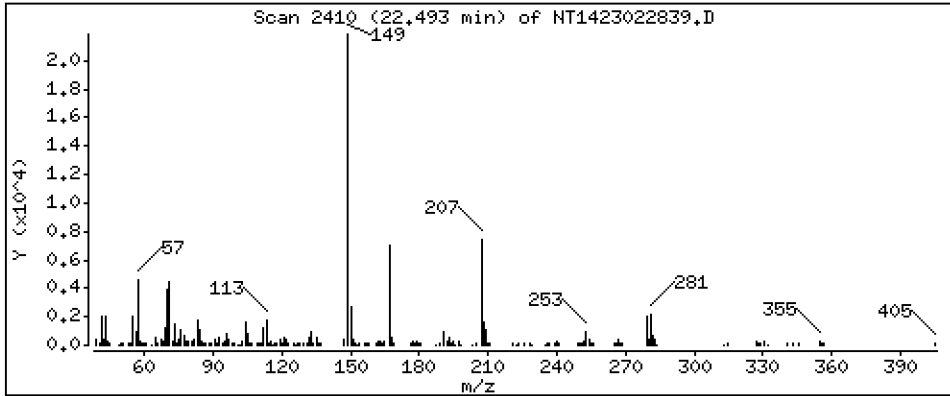
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,4583 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

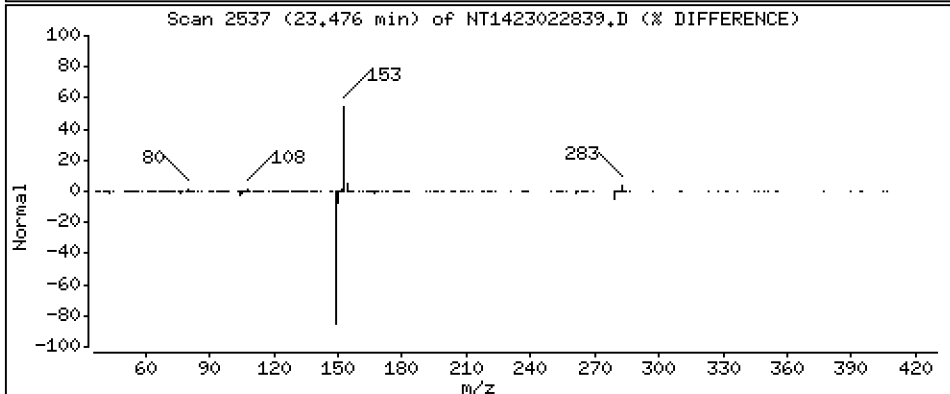
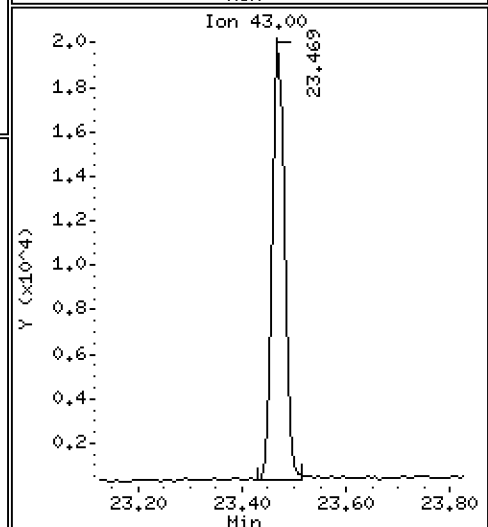
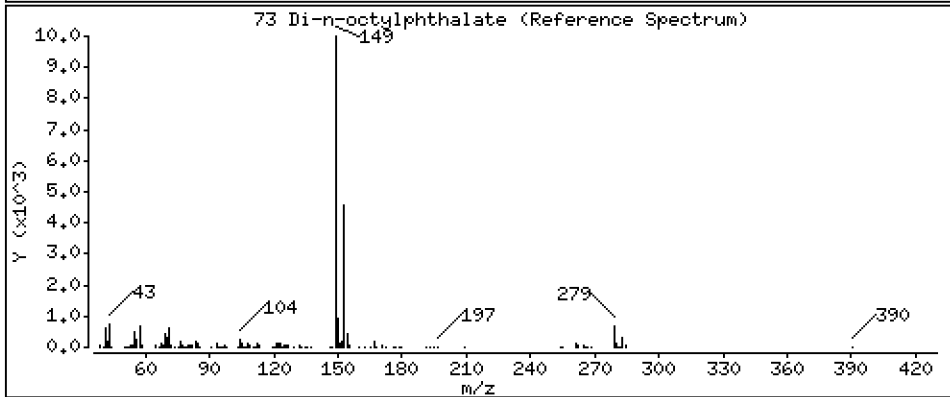
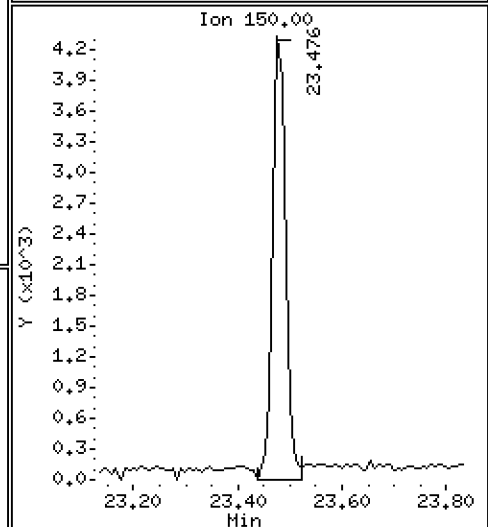
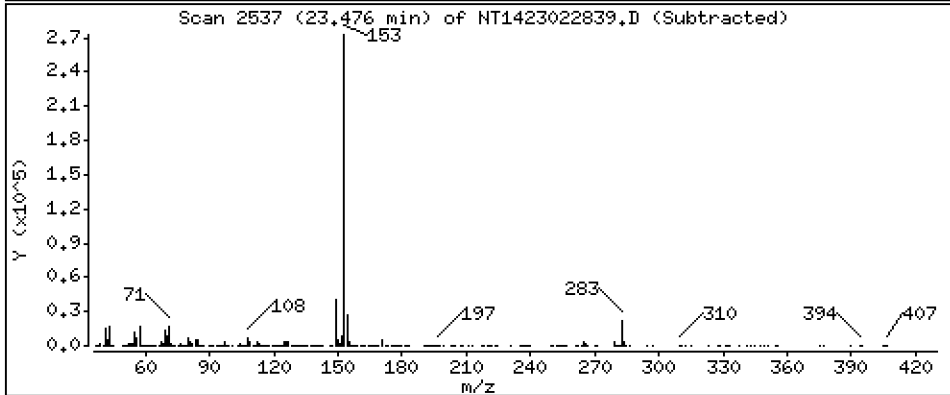
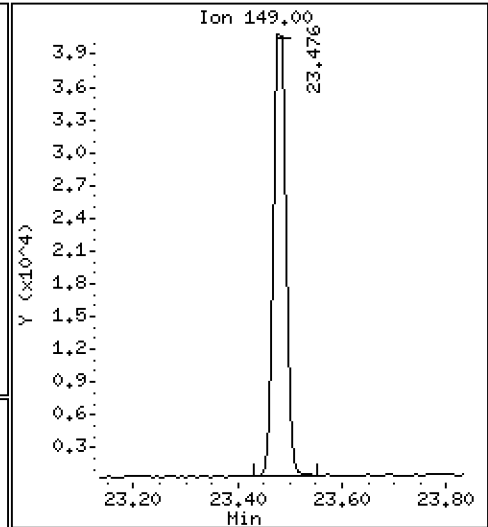
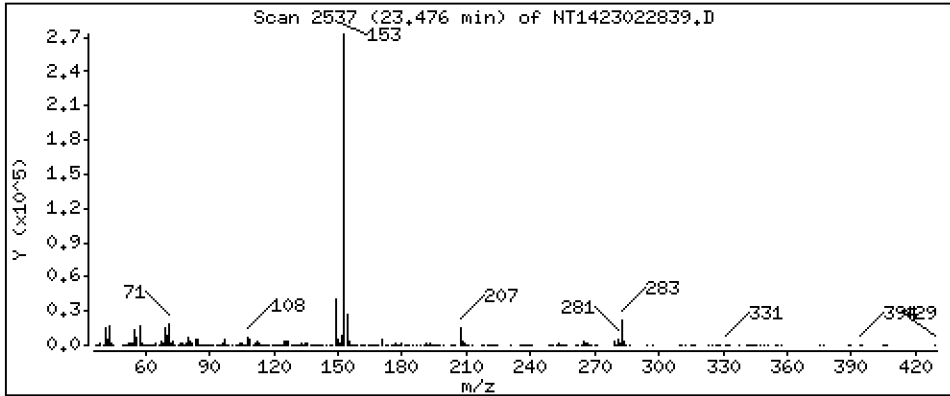
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,5038 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

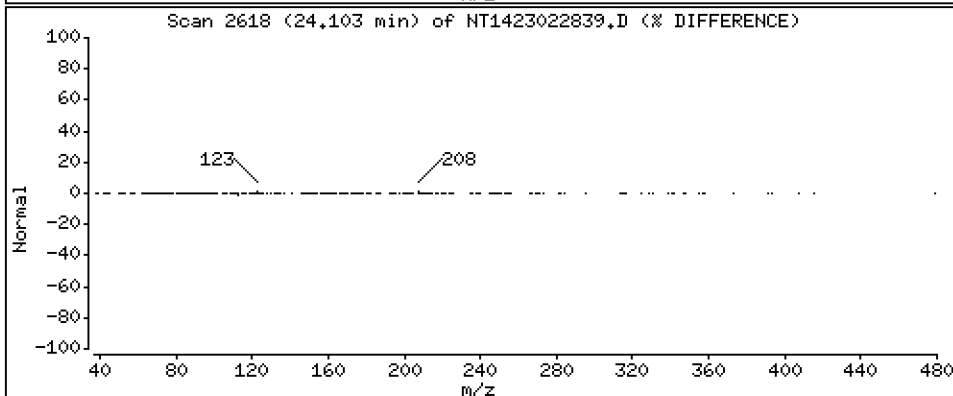
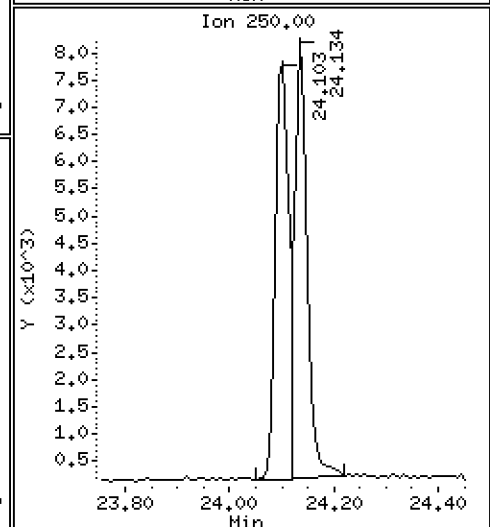
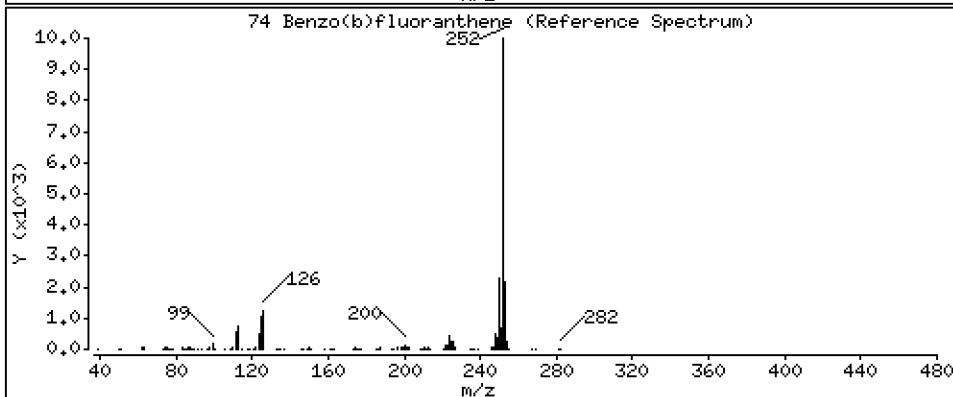
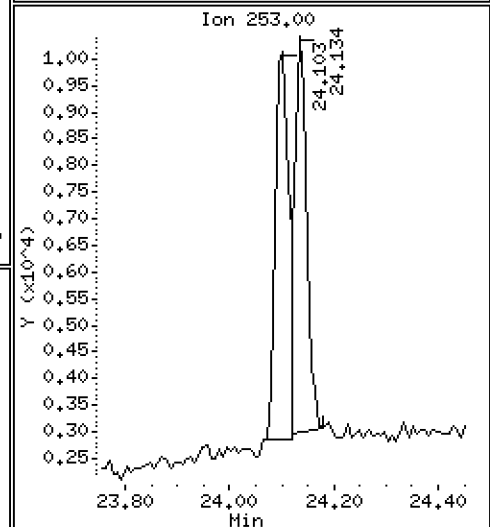
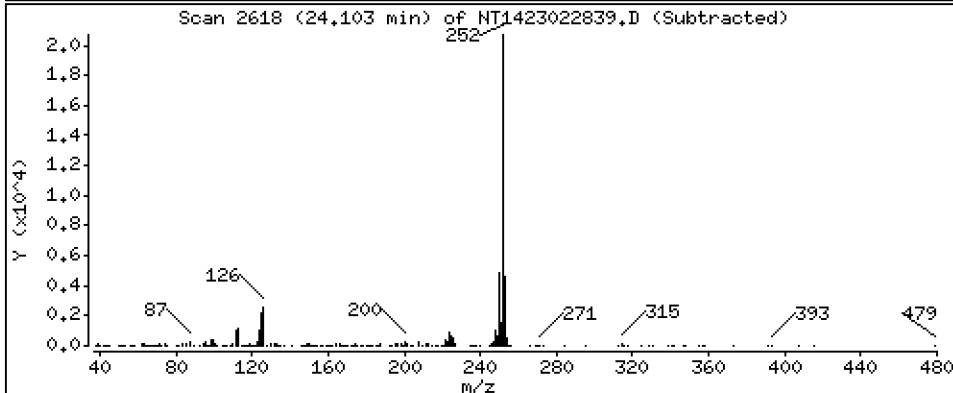
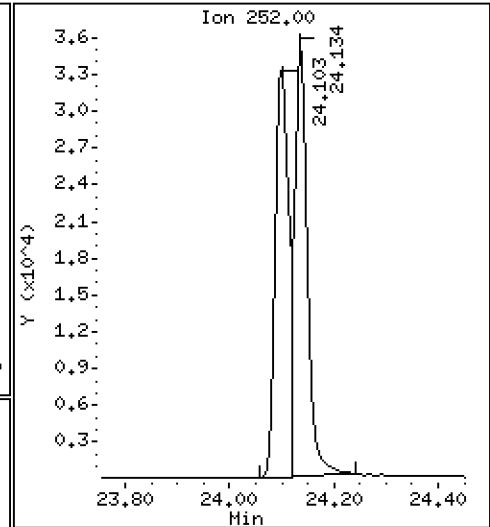
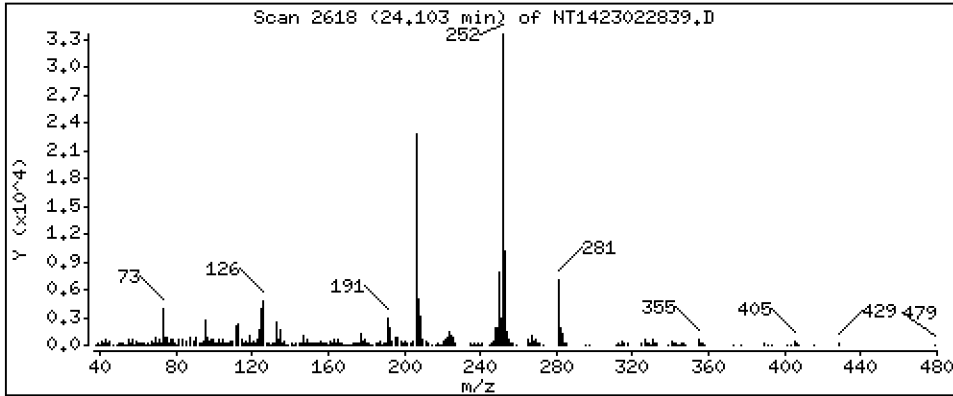
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,5748 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

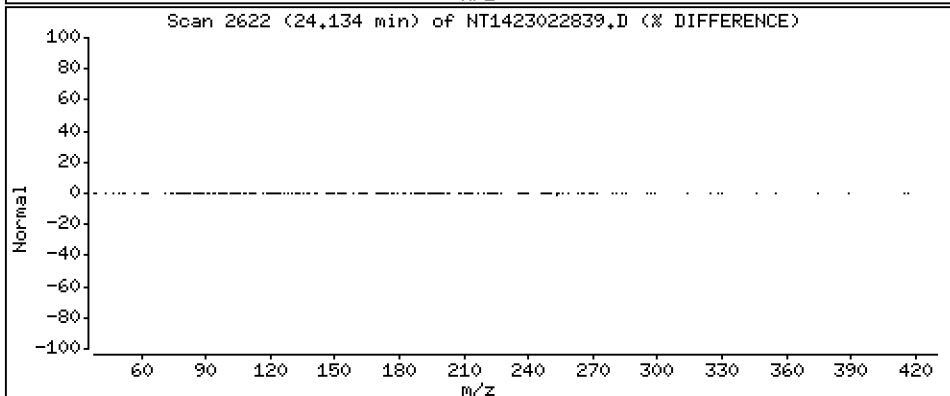
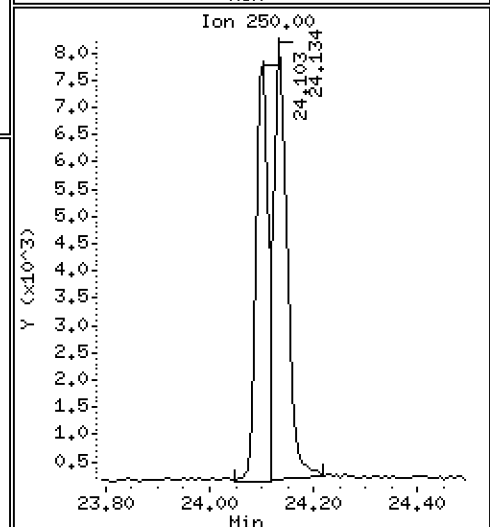
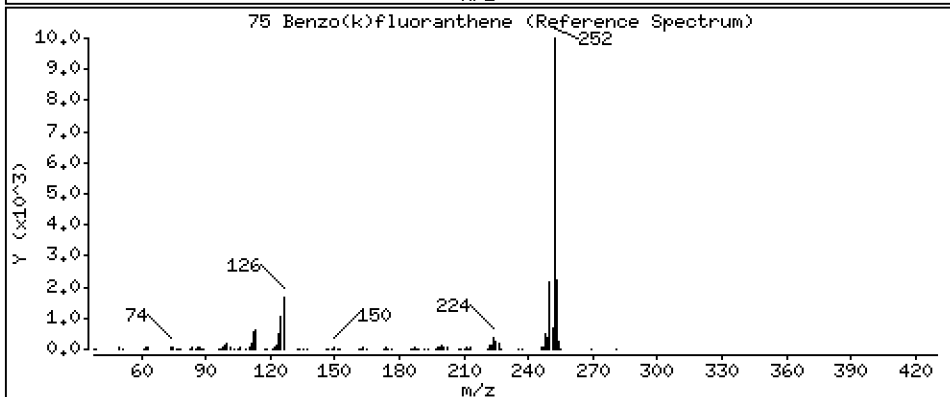
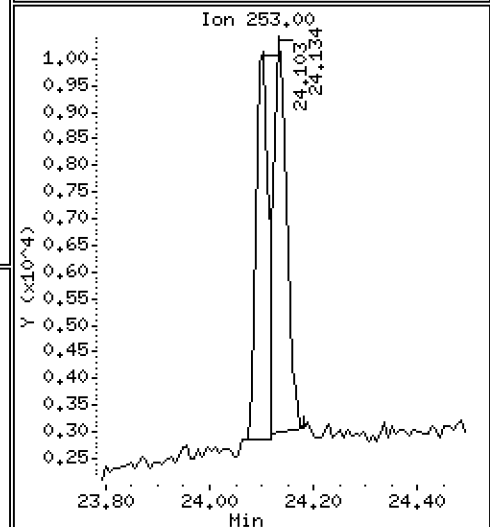
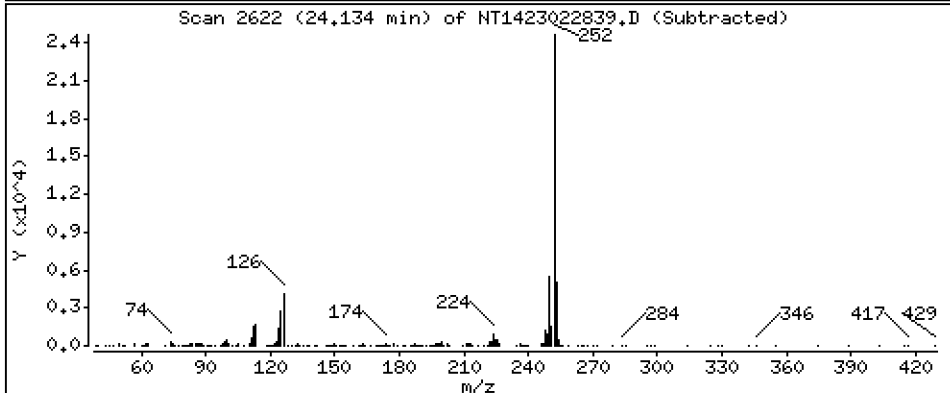
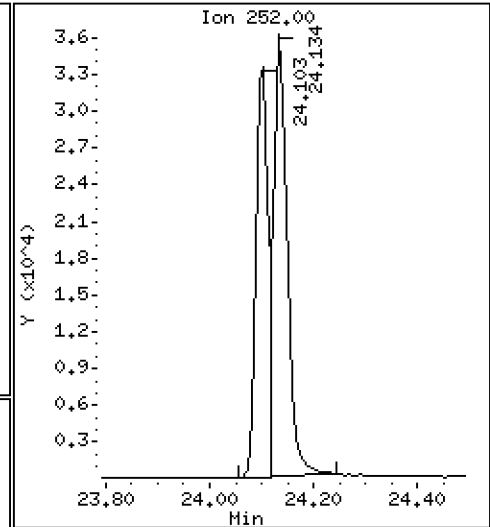
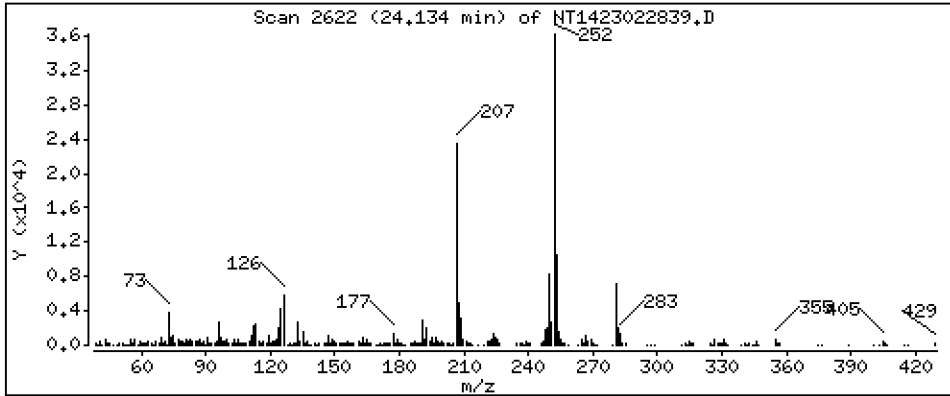
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,5863 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

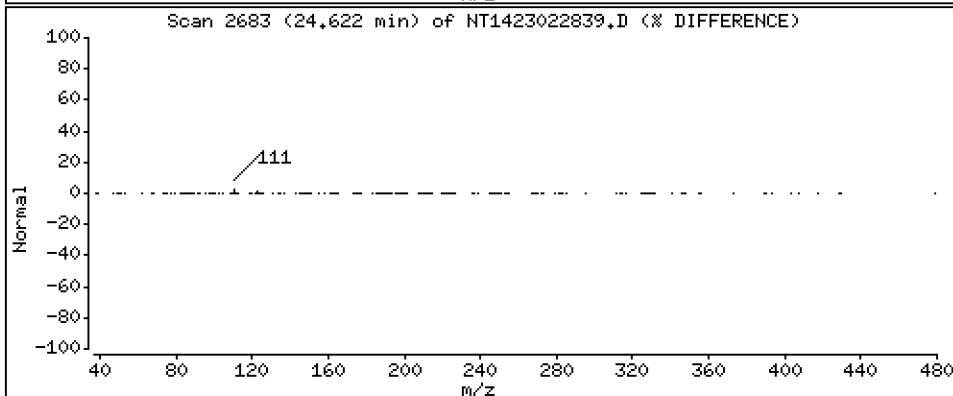
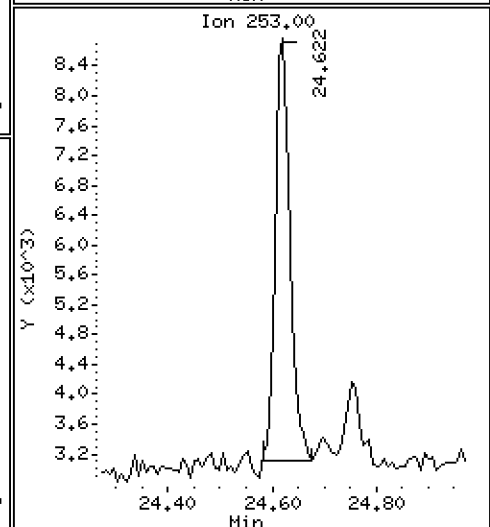
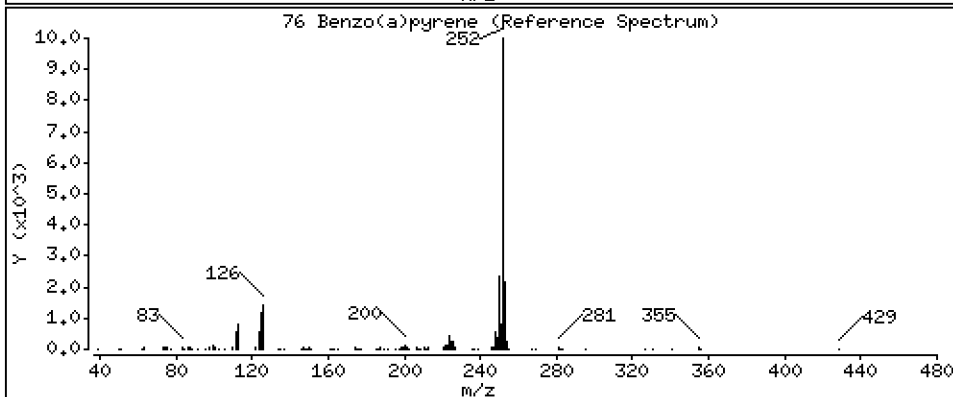
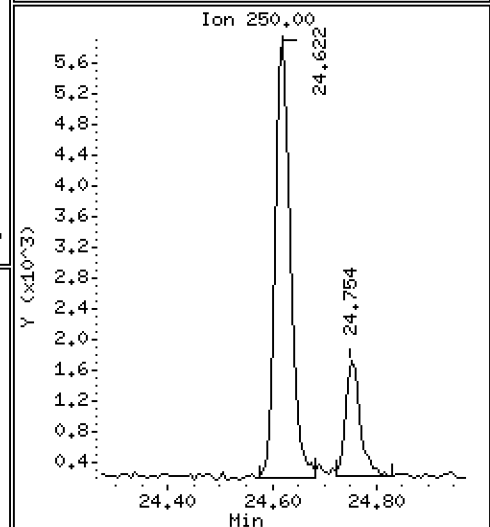
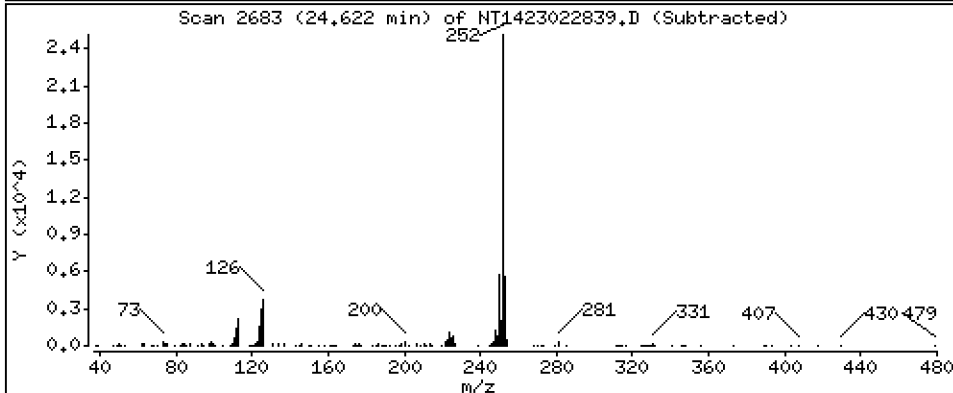
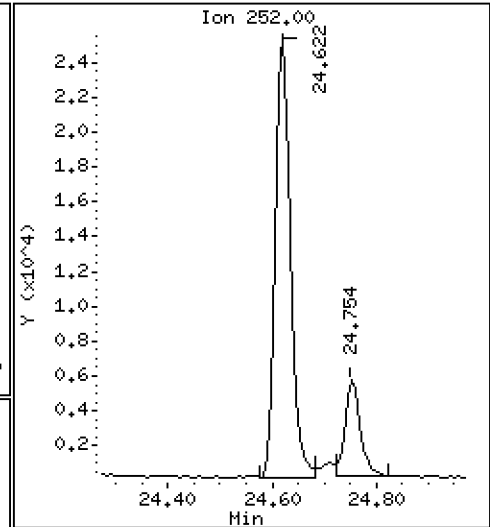
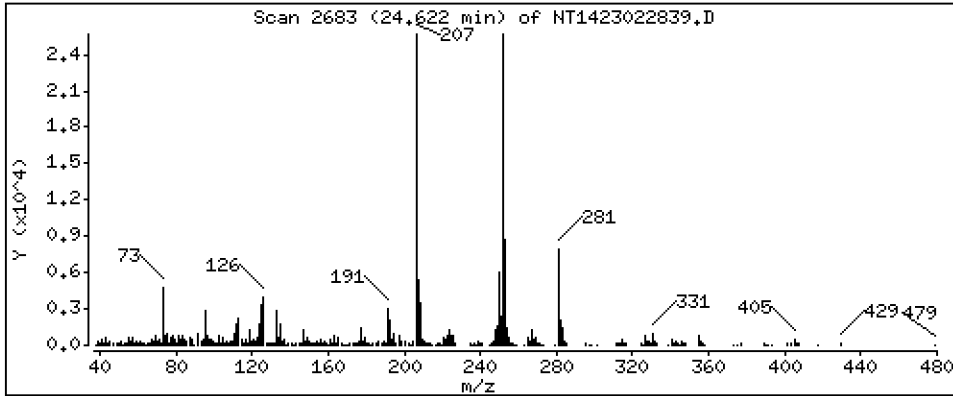
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,5437 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

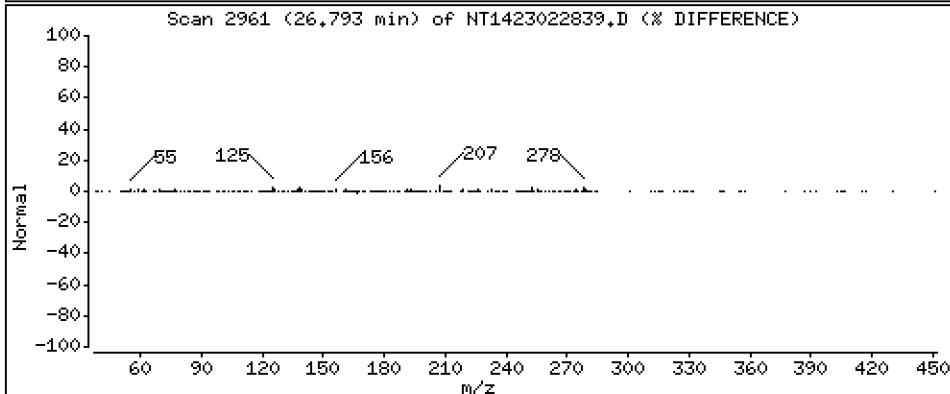
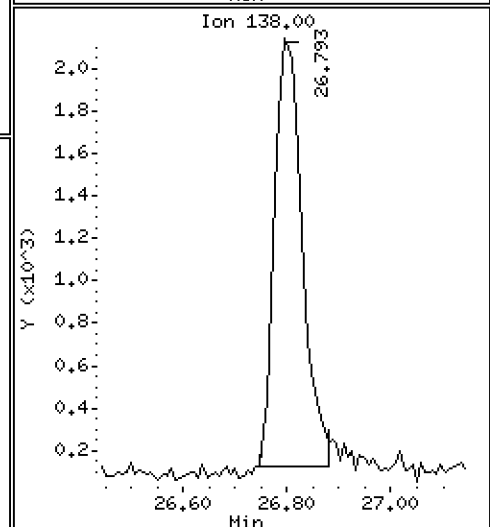
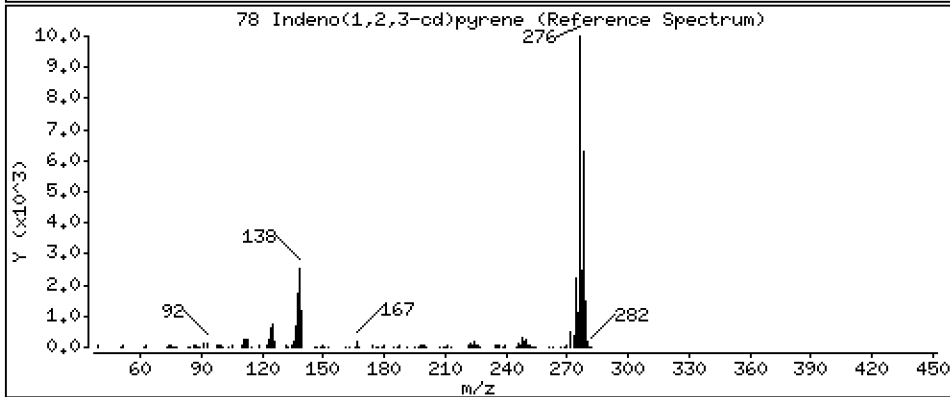
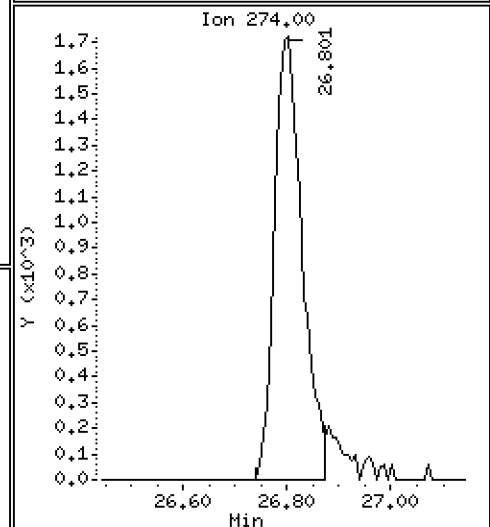
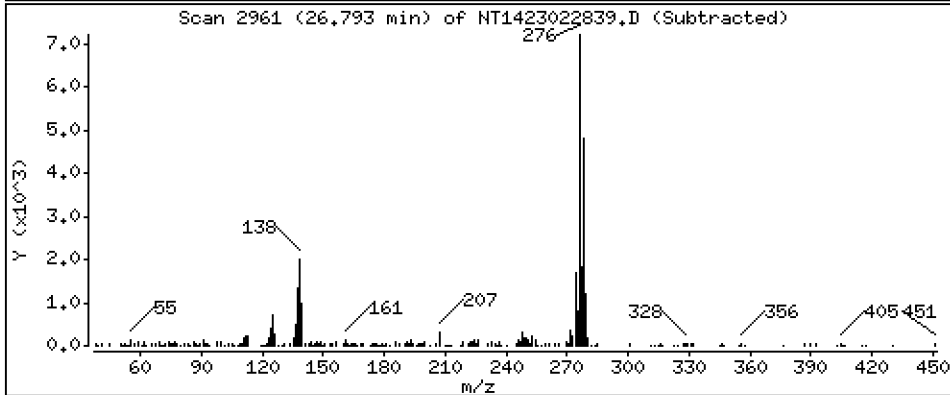
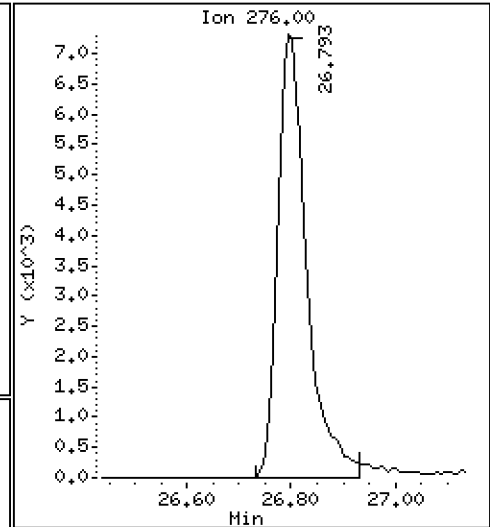
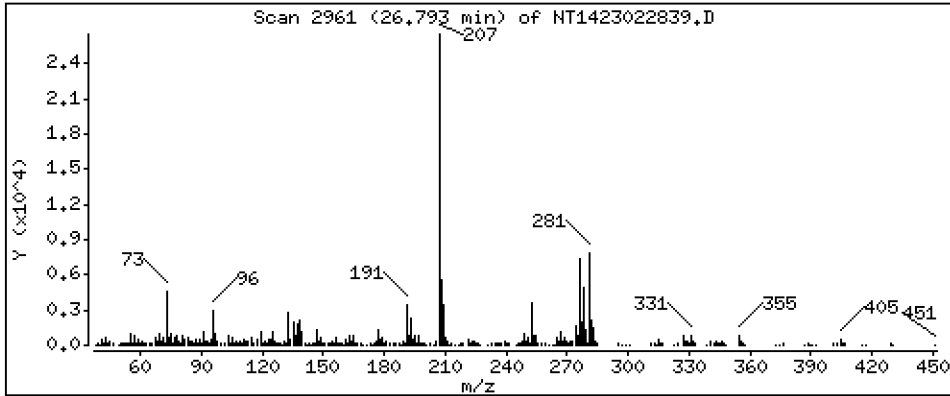
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,2520 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

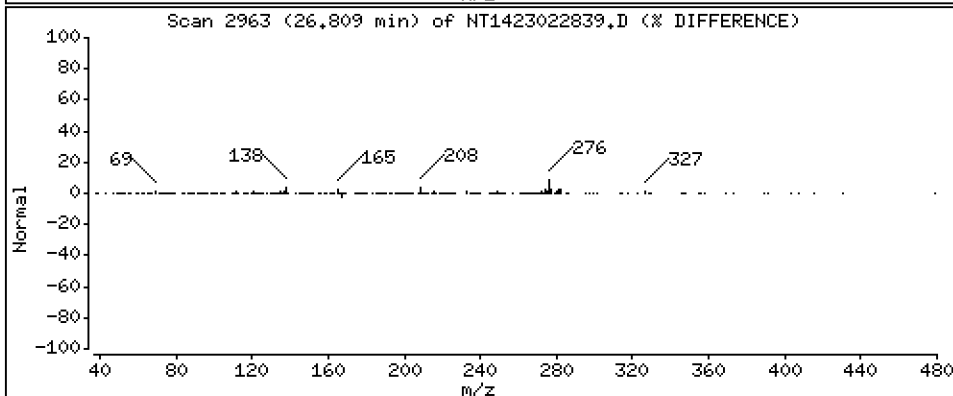
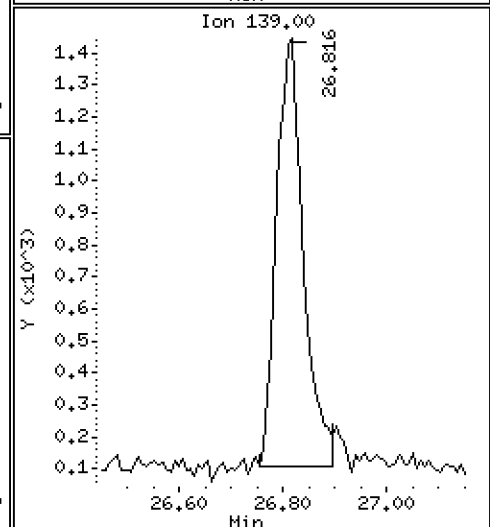
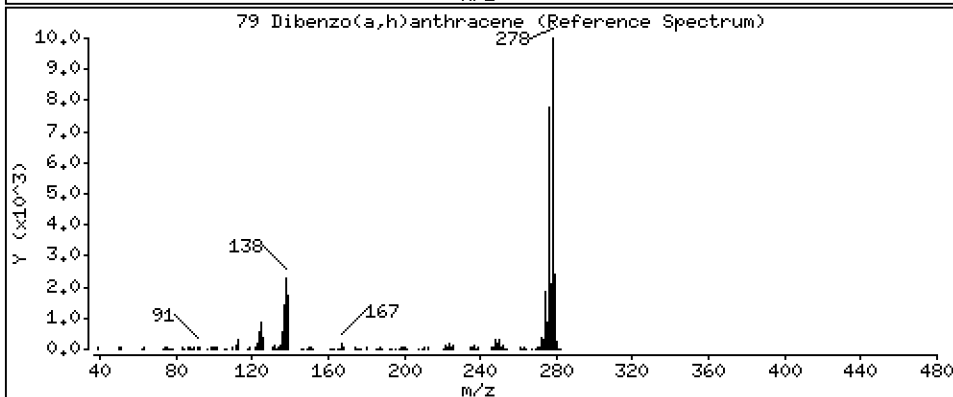
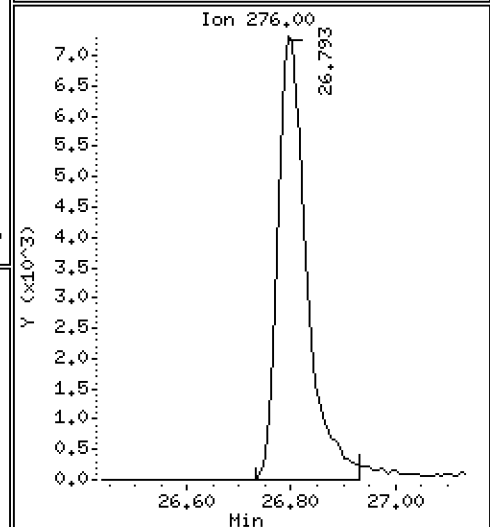
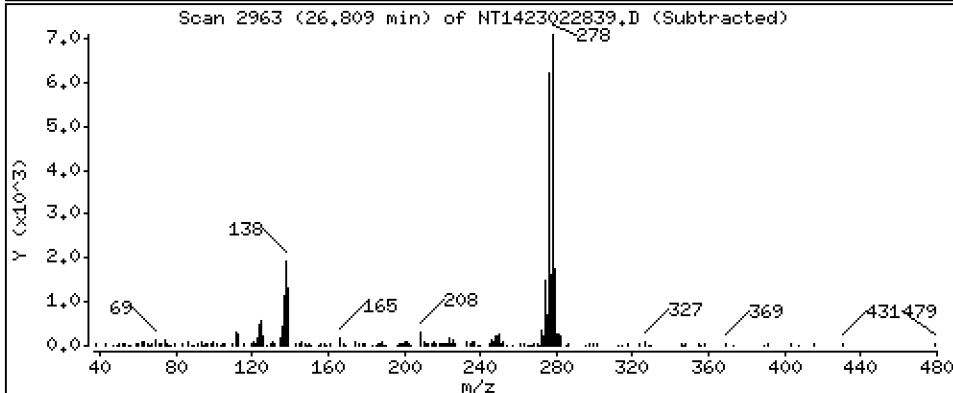
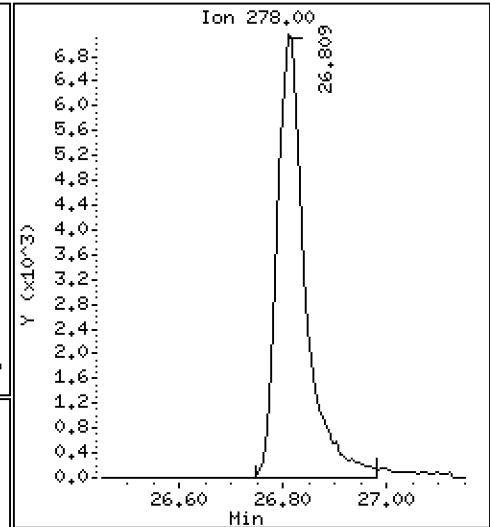
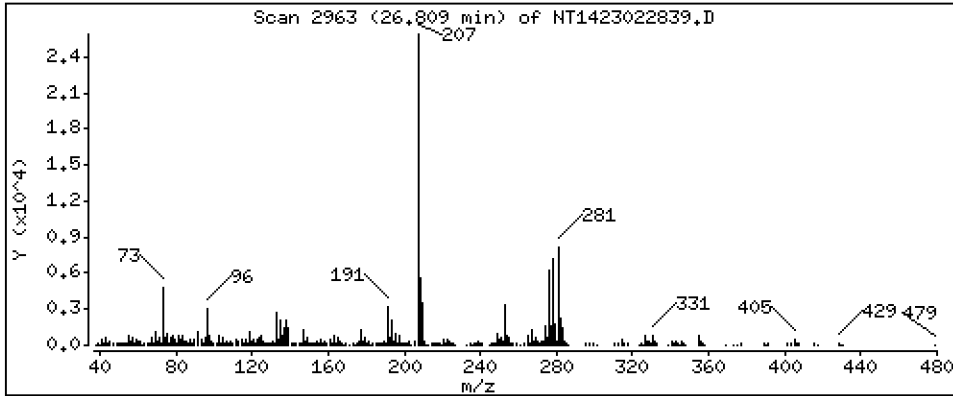
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2813 ug/mL





Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

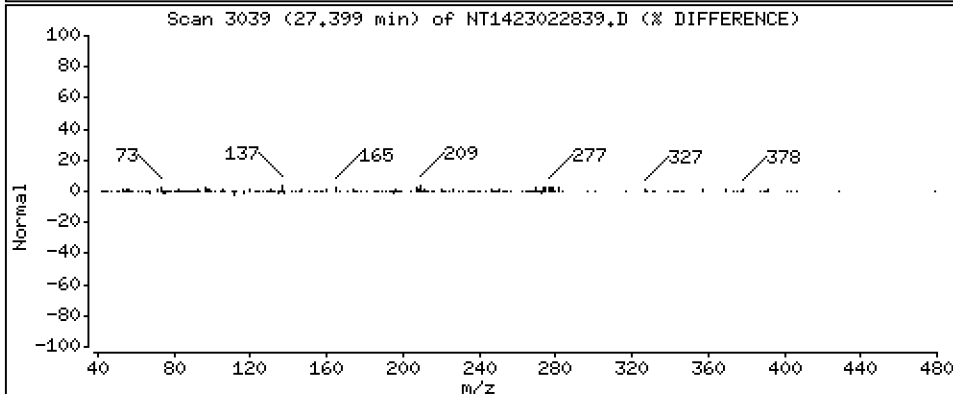
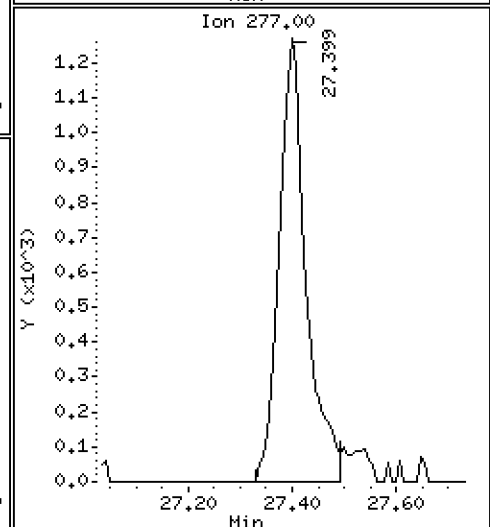
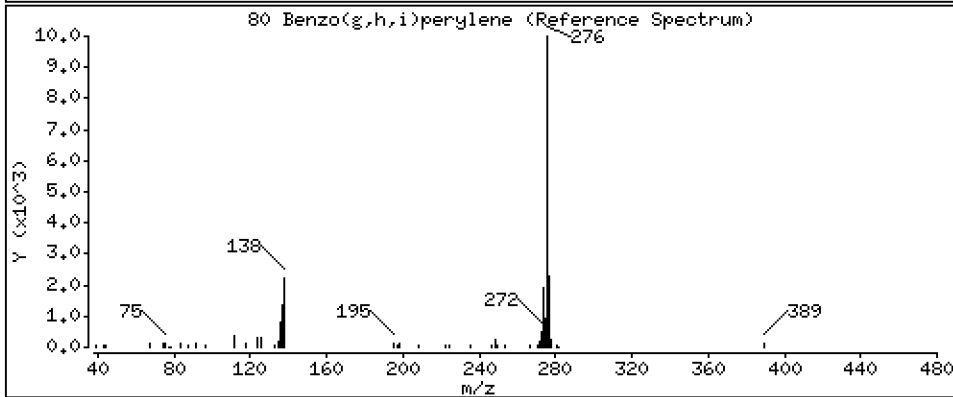
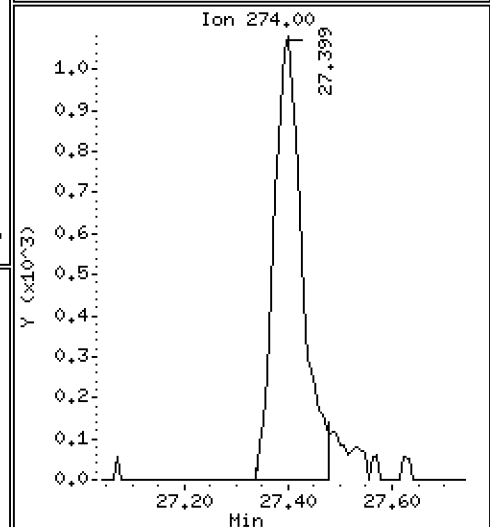
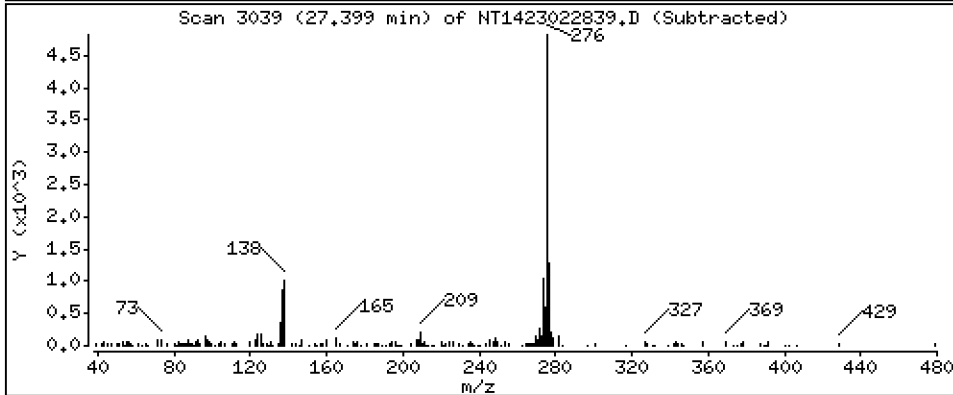
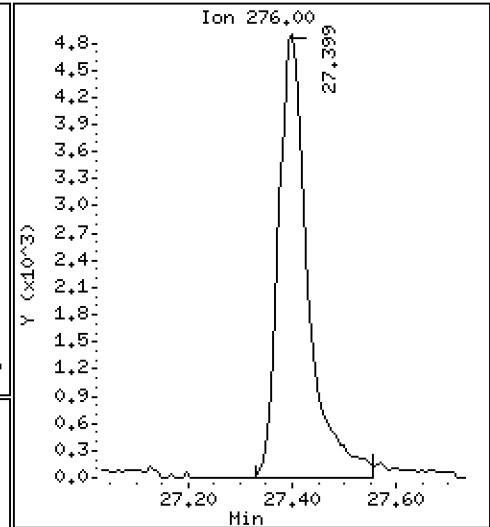
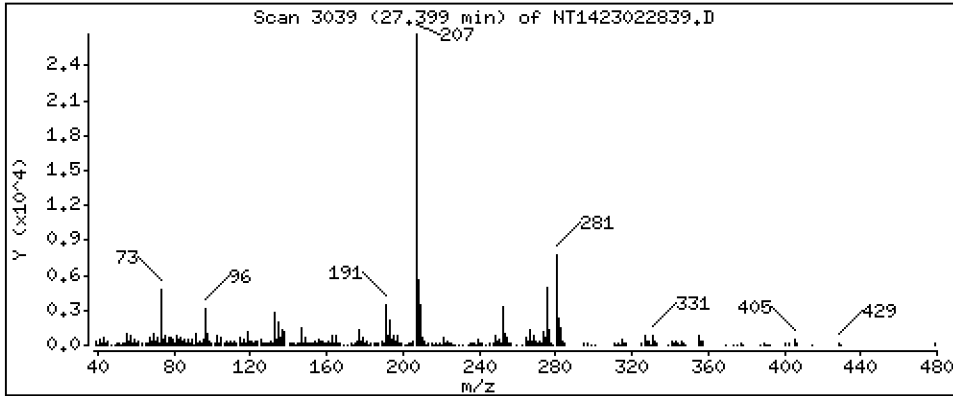
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,1986 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

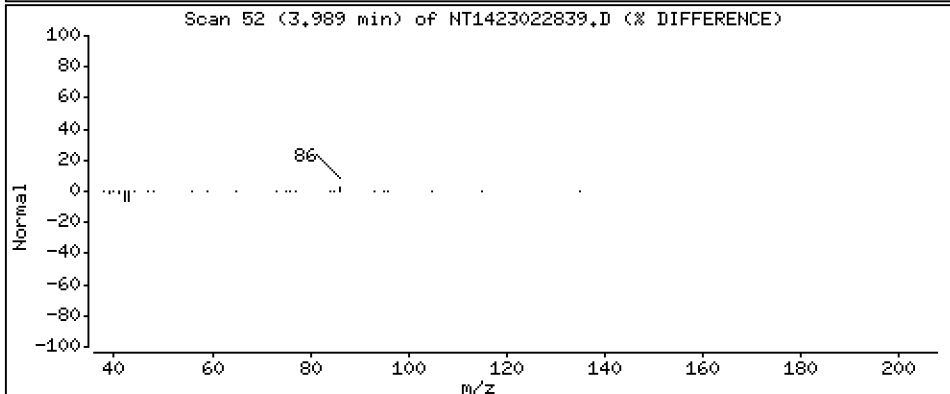
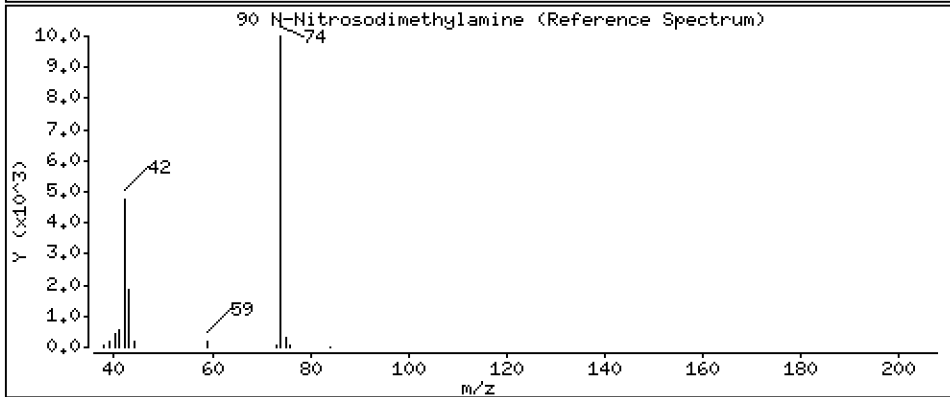
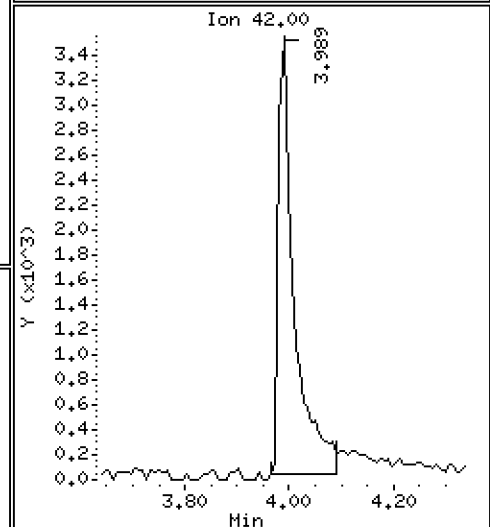
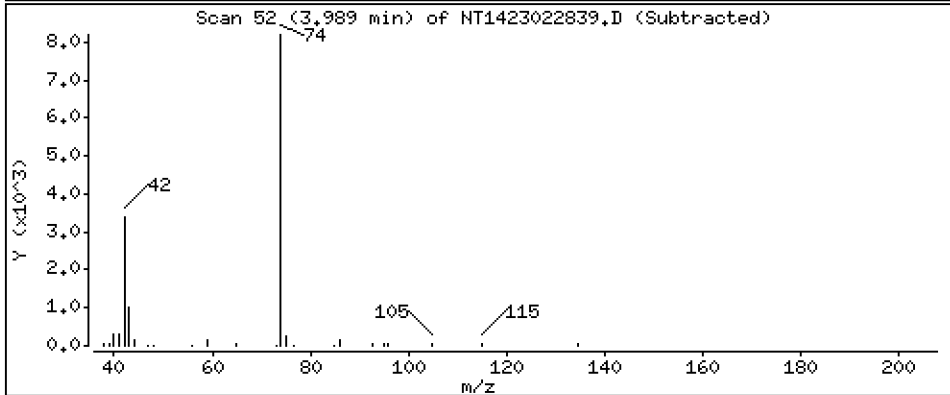
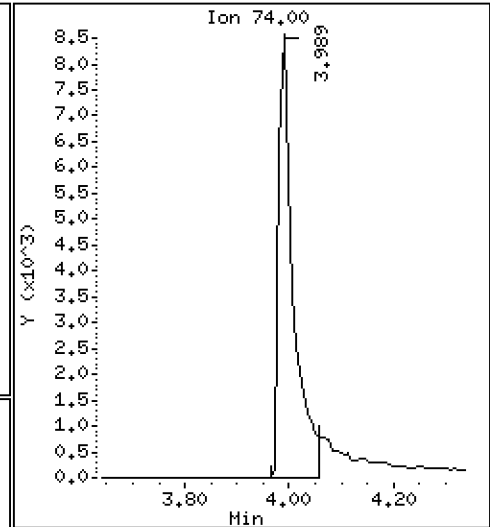
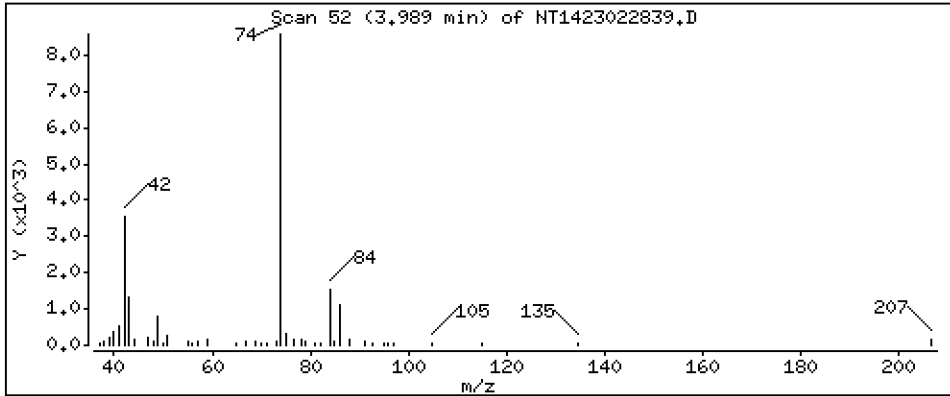
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,6900 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

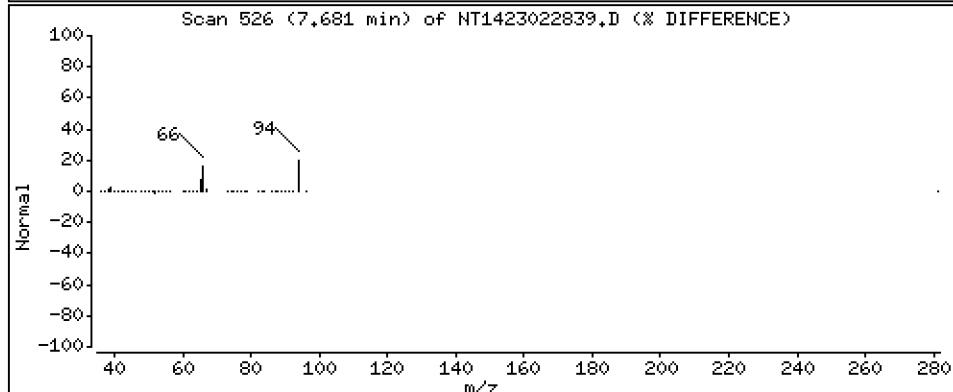
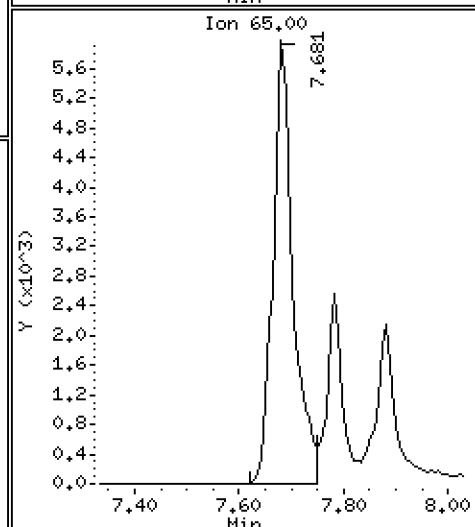
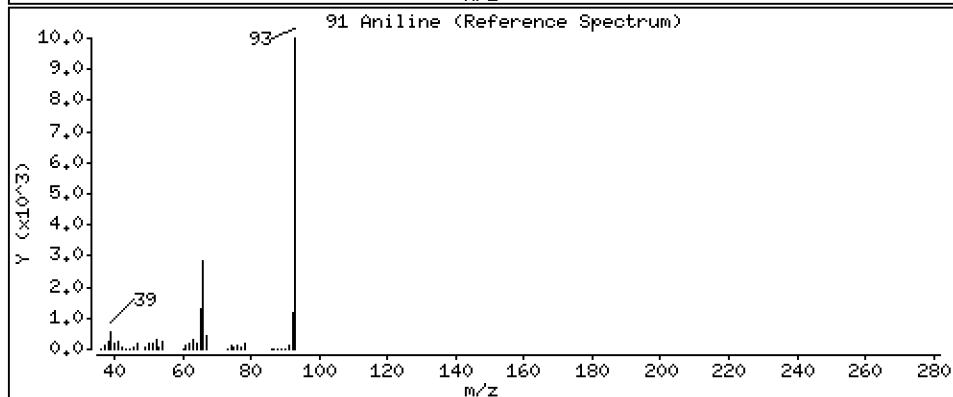
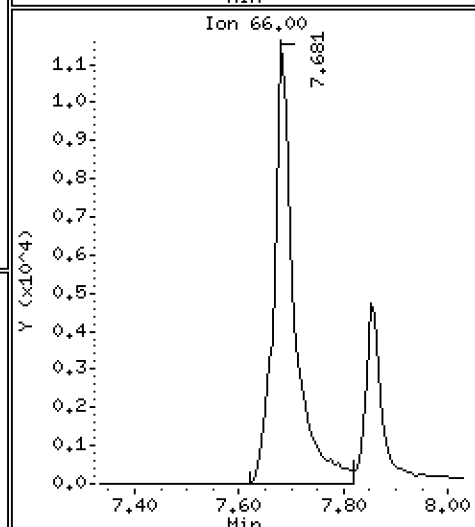
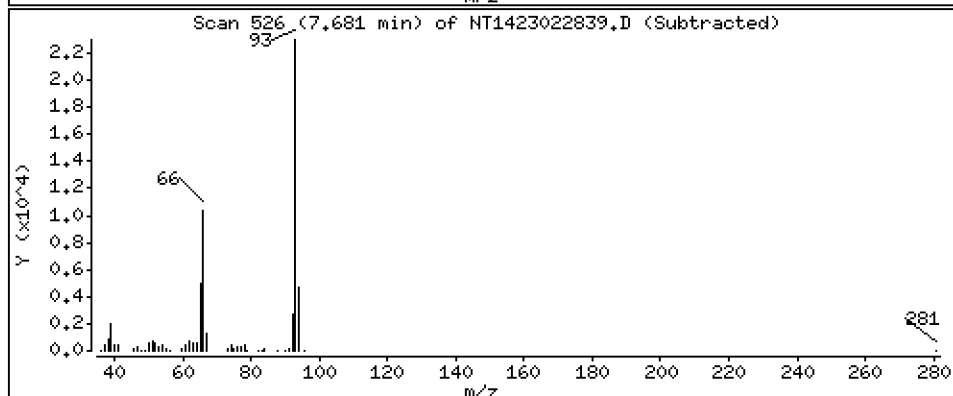
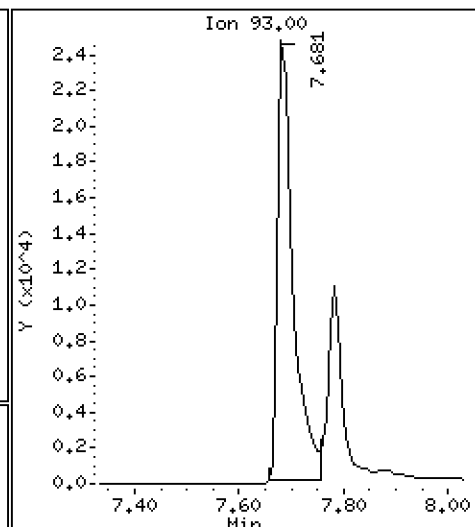
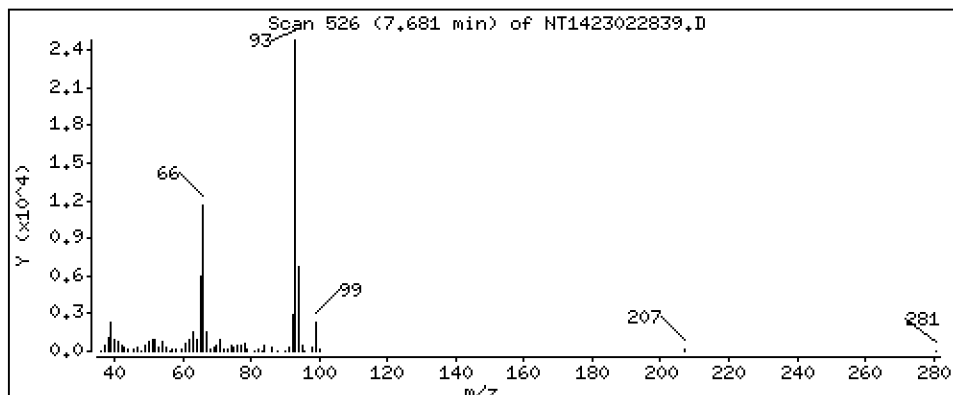
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.9125 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

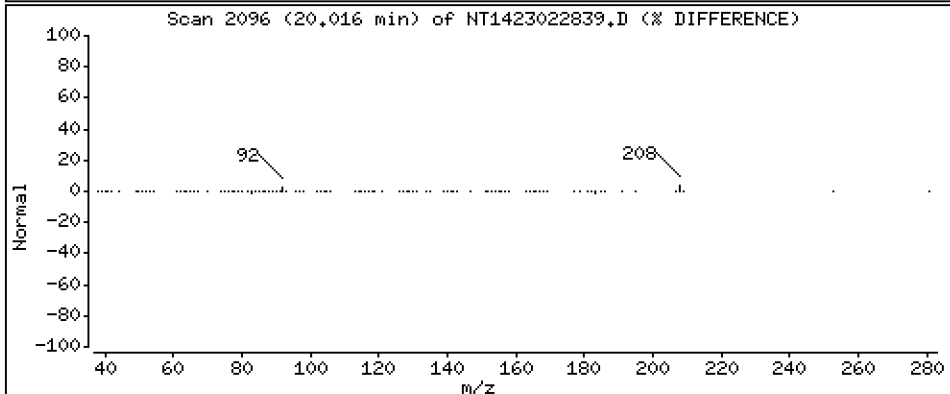
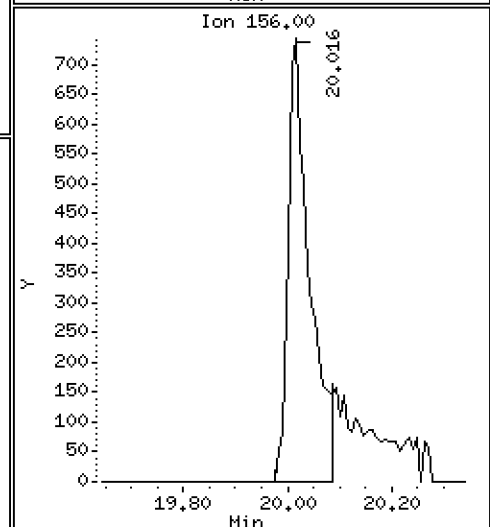
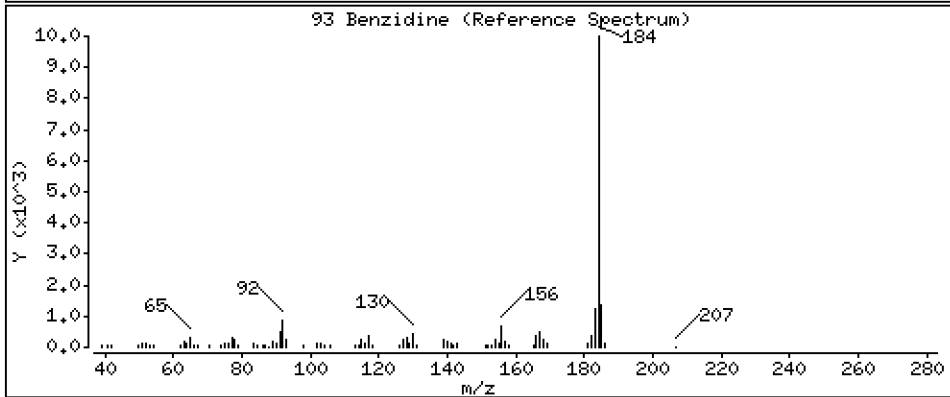
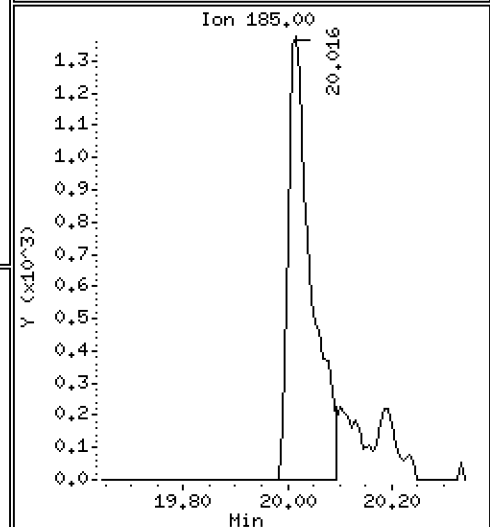
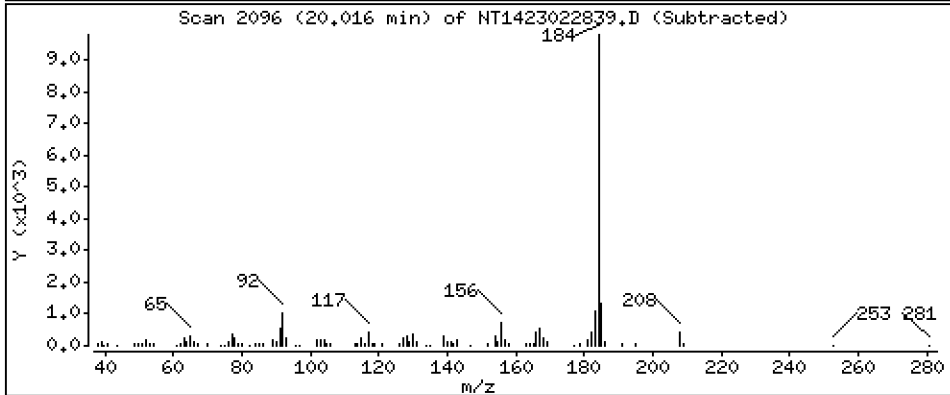
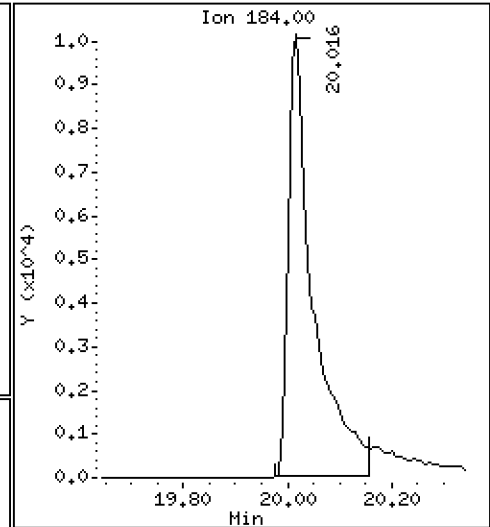
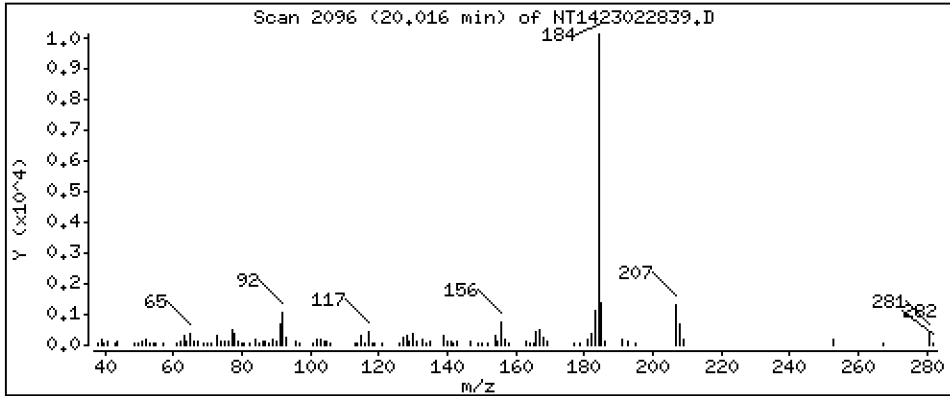
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,6124 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

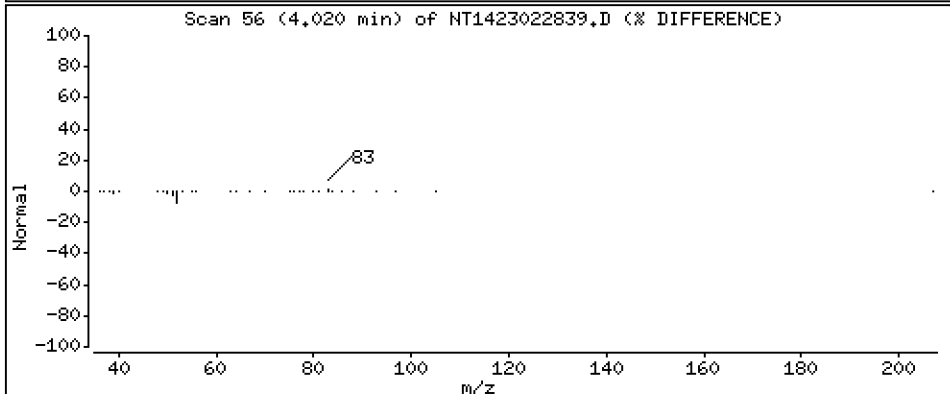
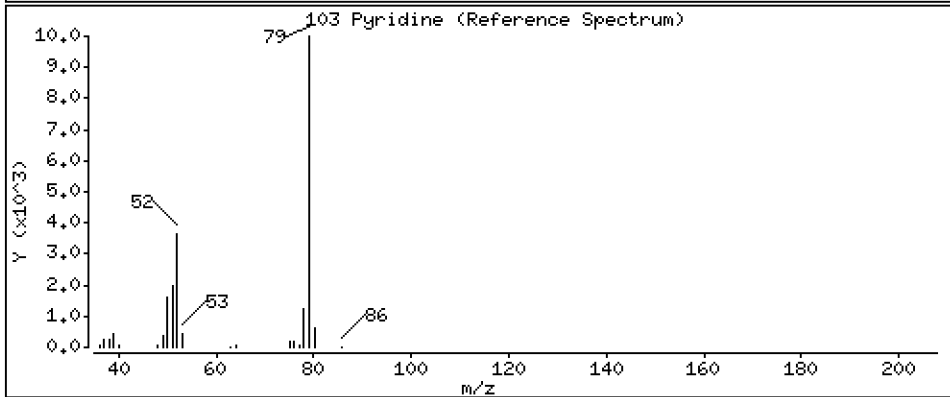
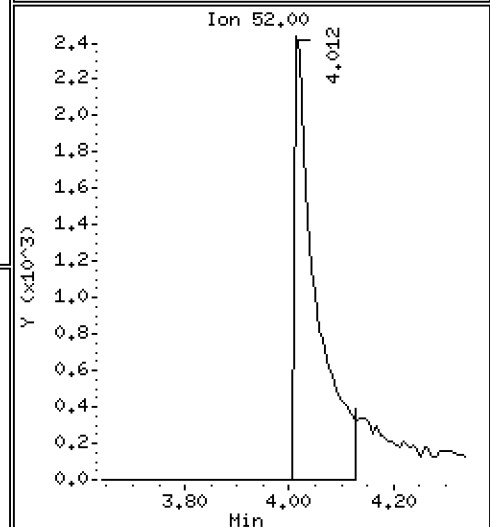
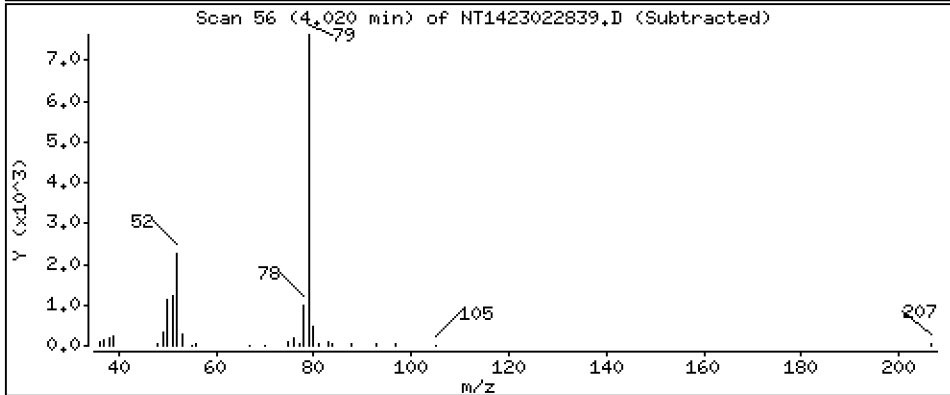
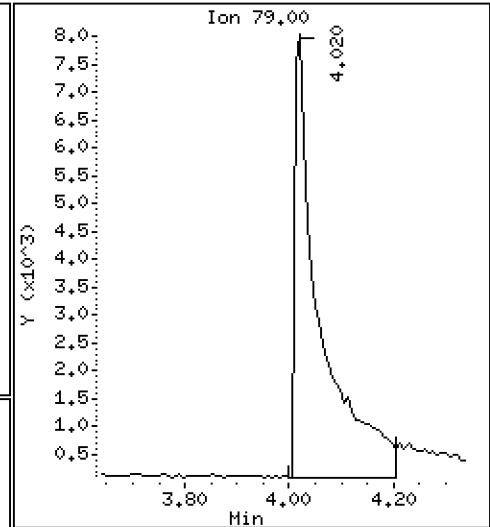
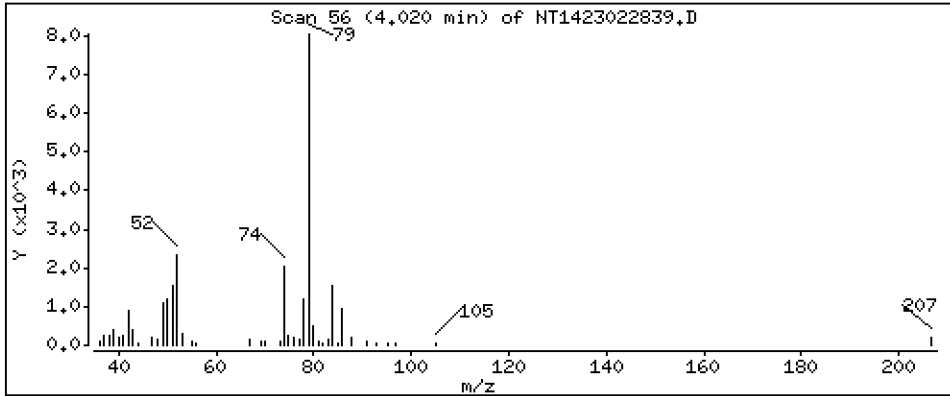
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,3914 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

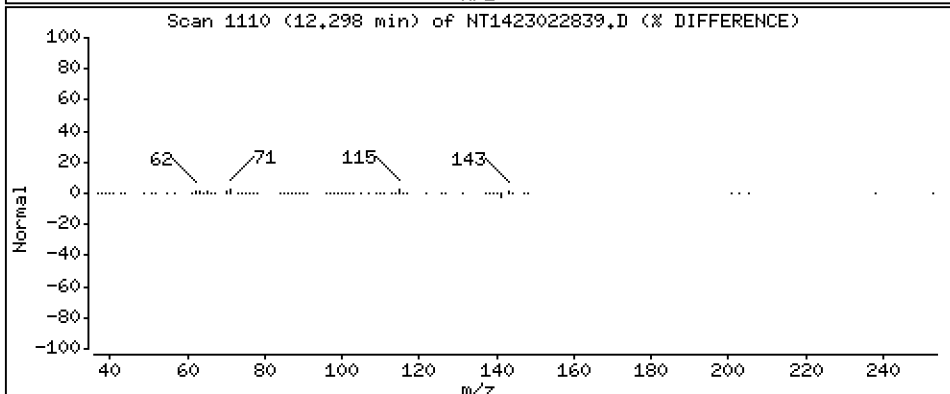
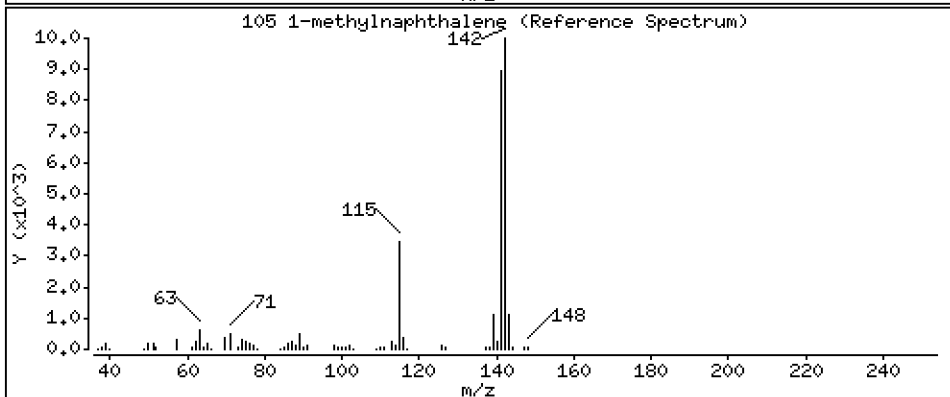
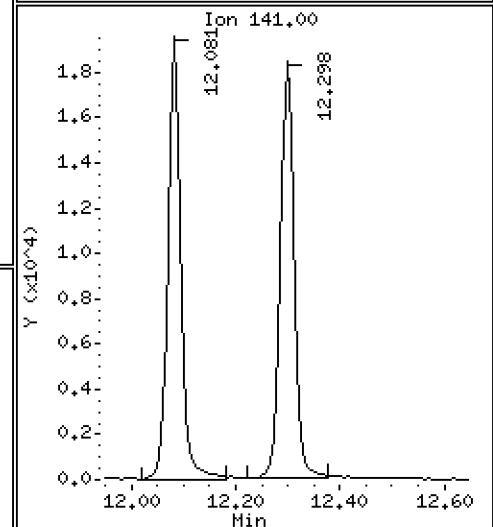
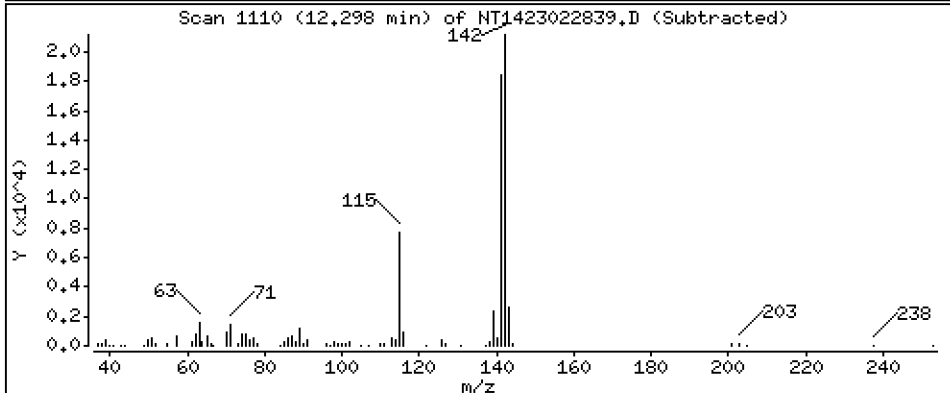
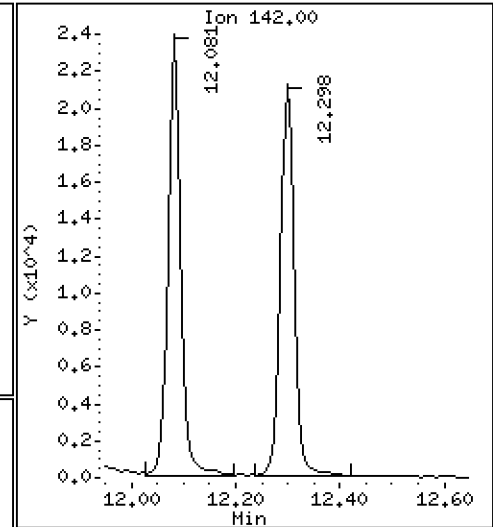
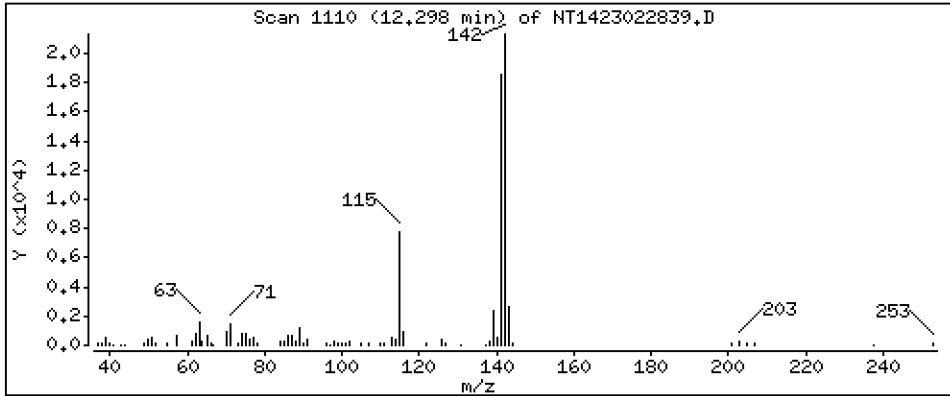
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,5086 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

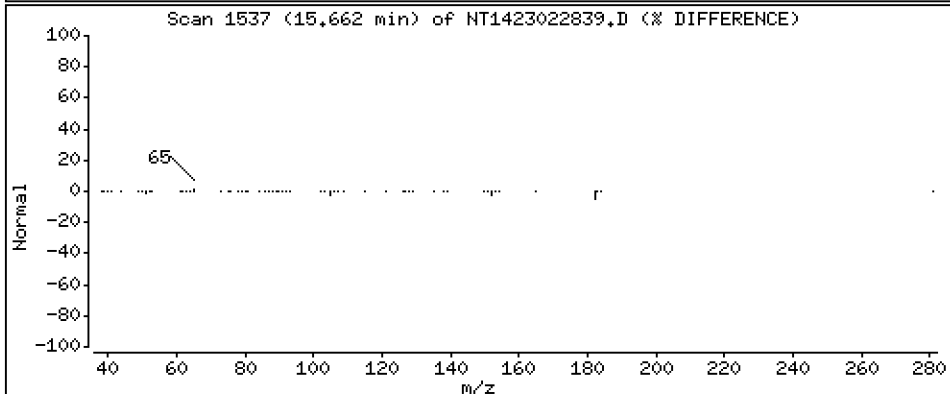
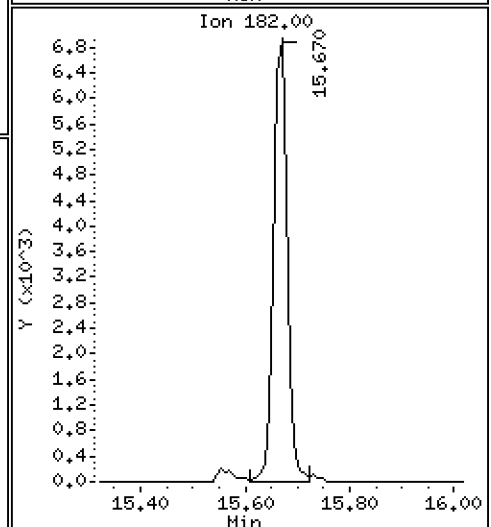
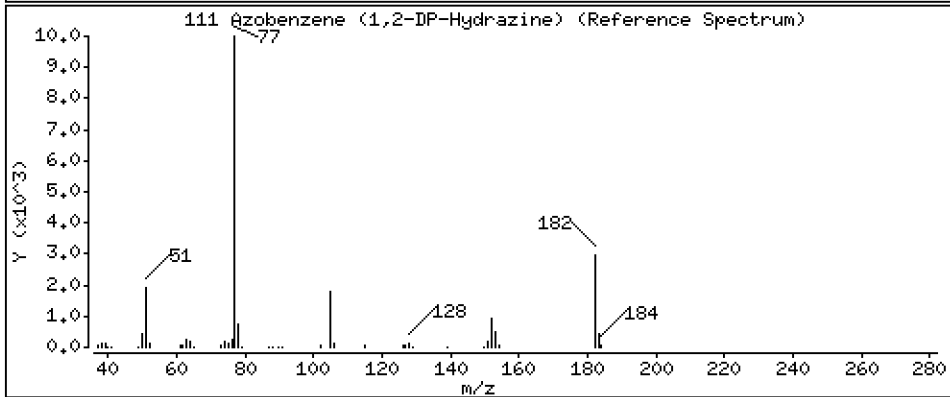
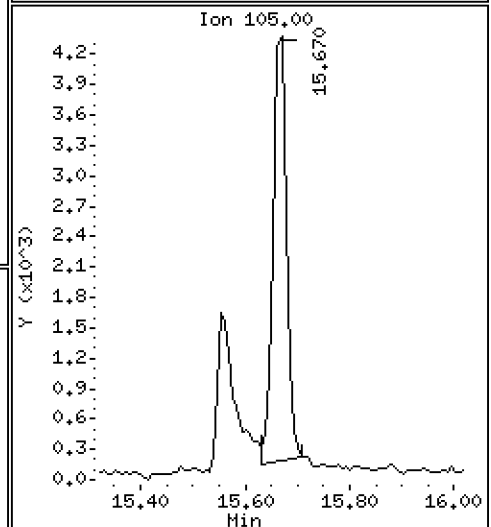
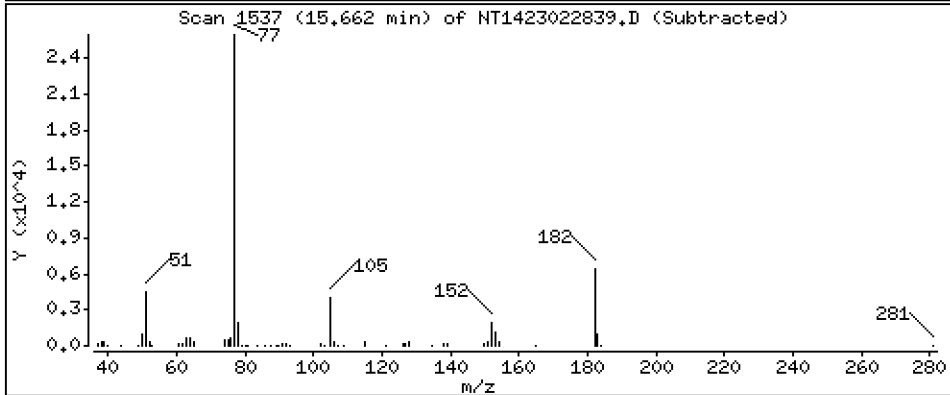
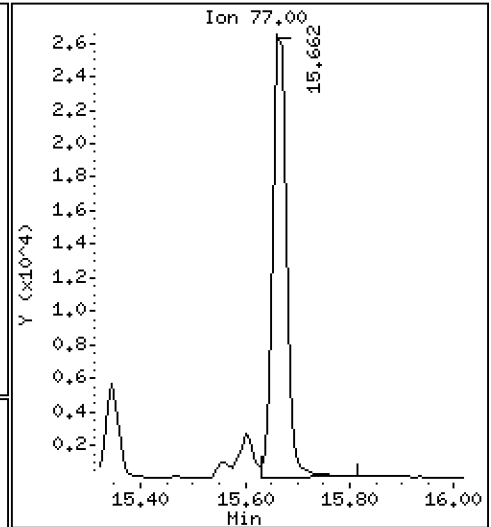
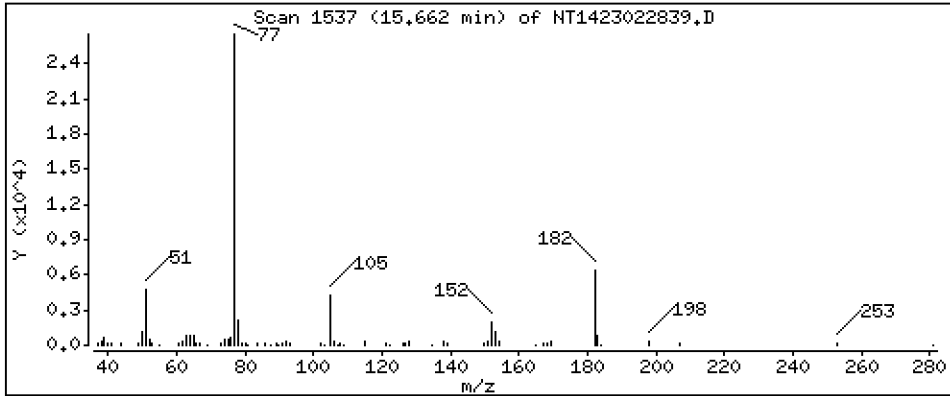
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,5890 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

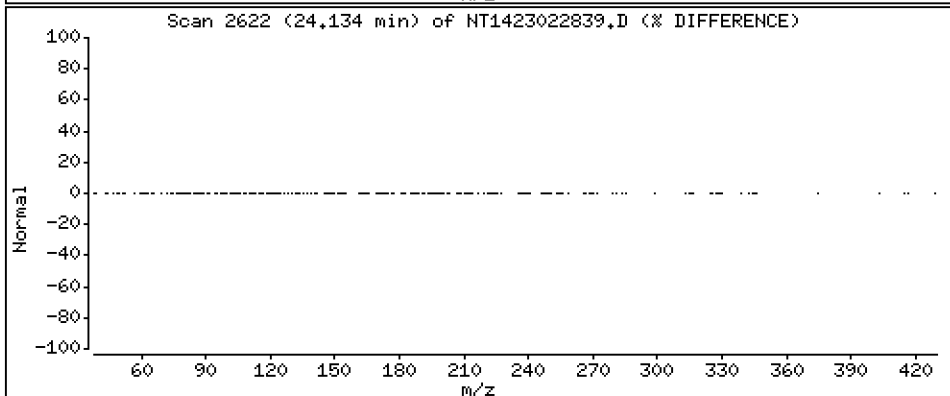
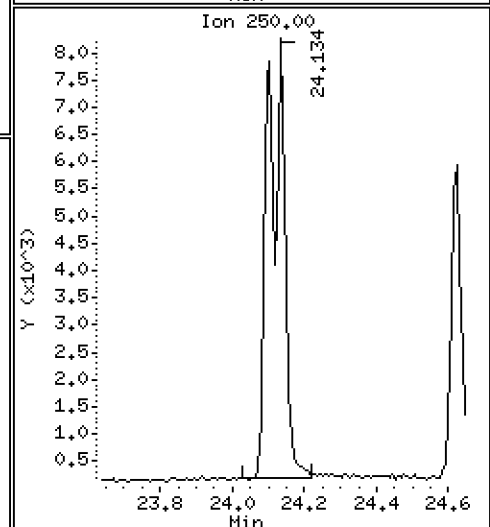
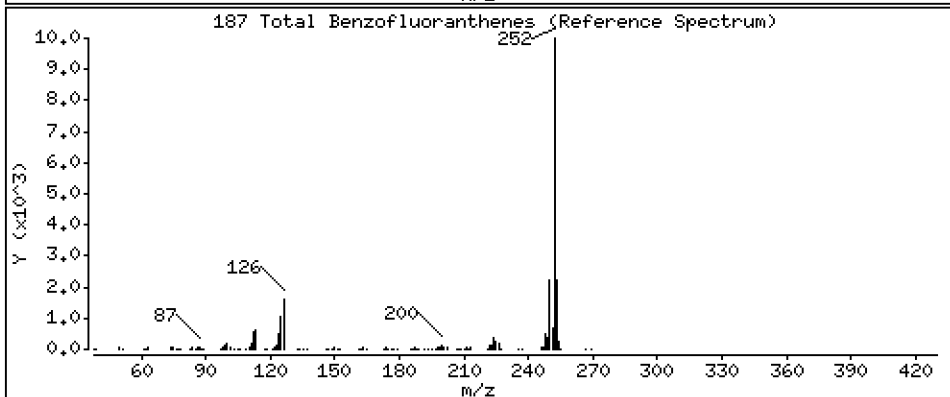
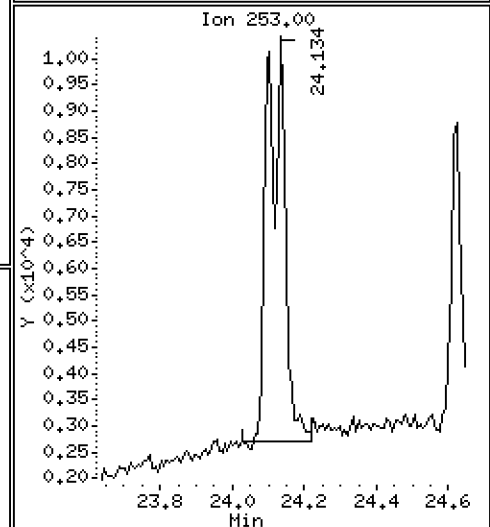
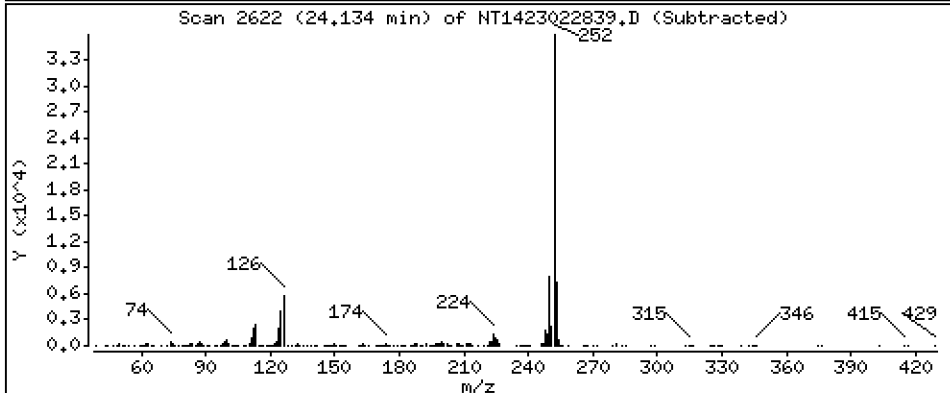
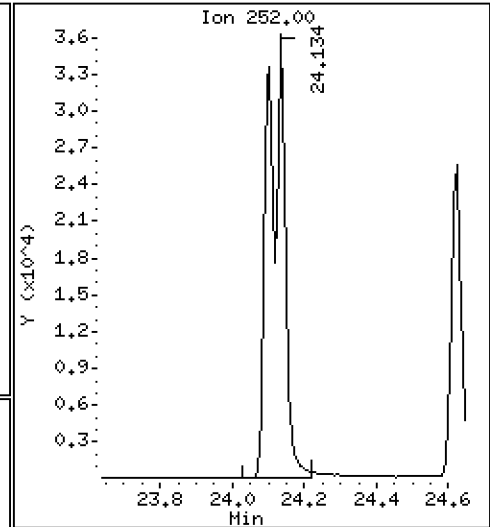
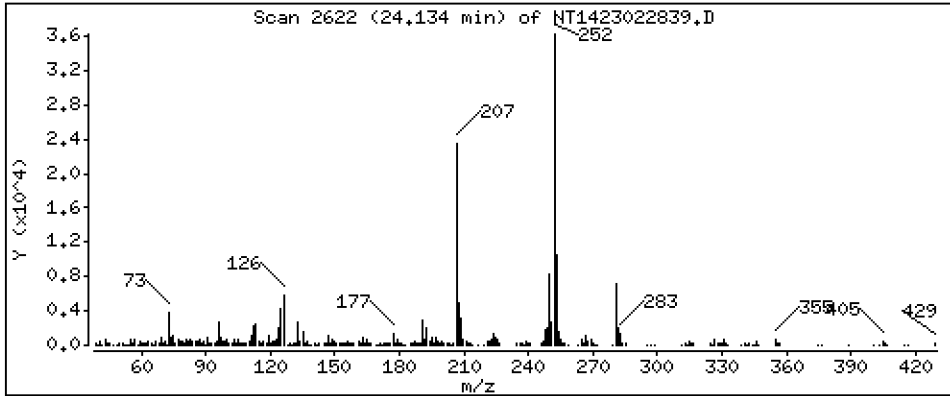
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,167 ug/mL





Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

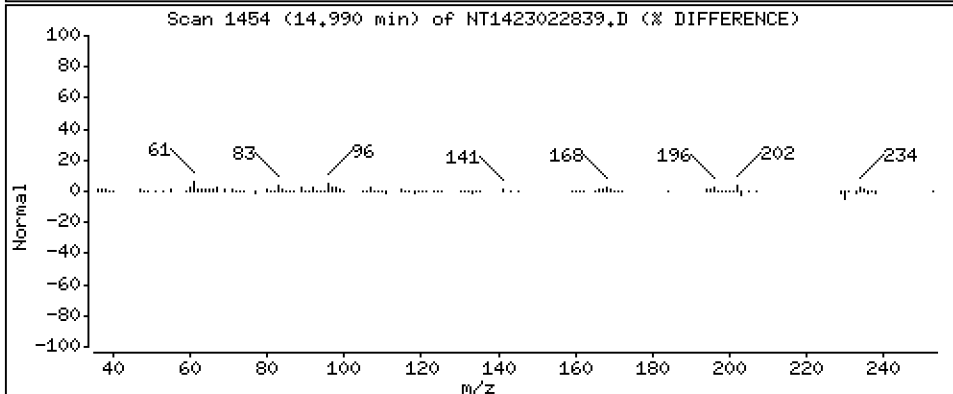
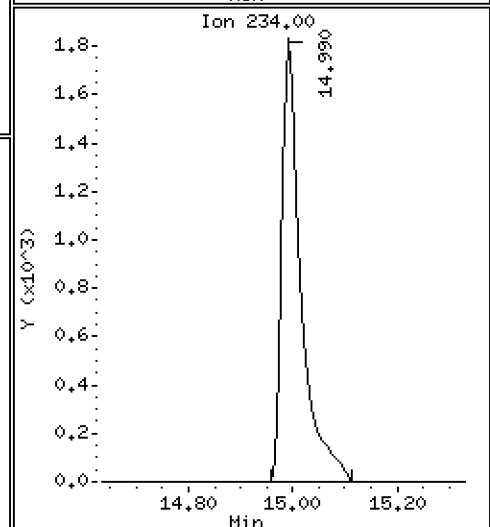
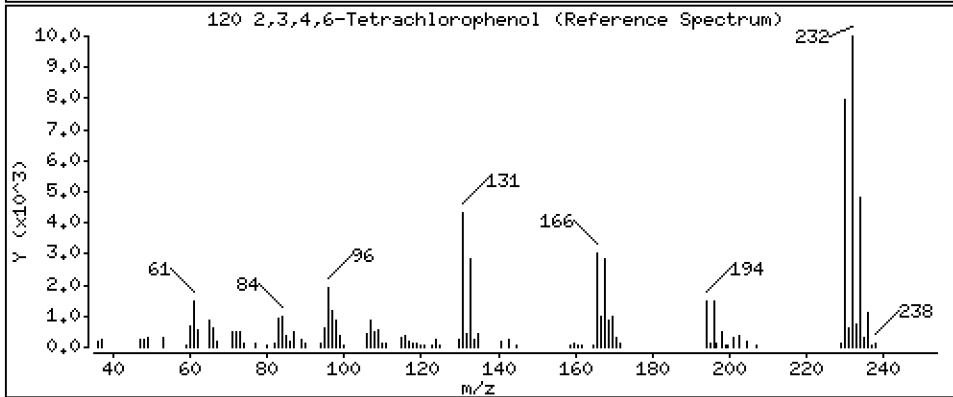
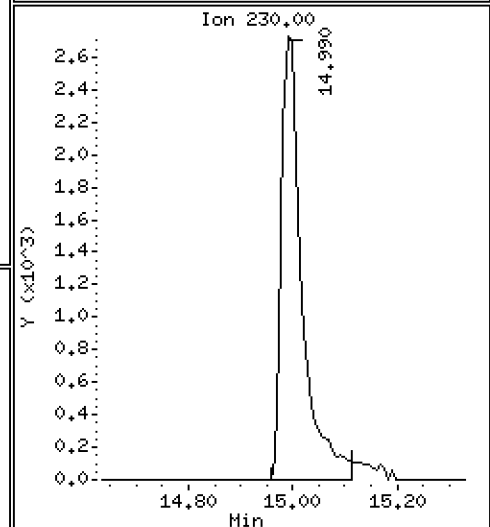
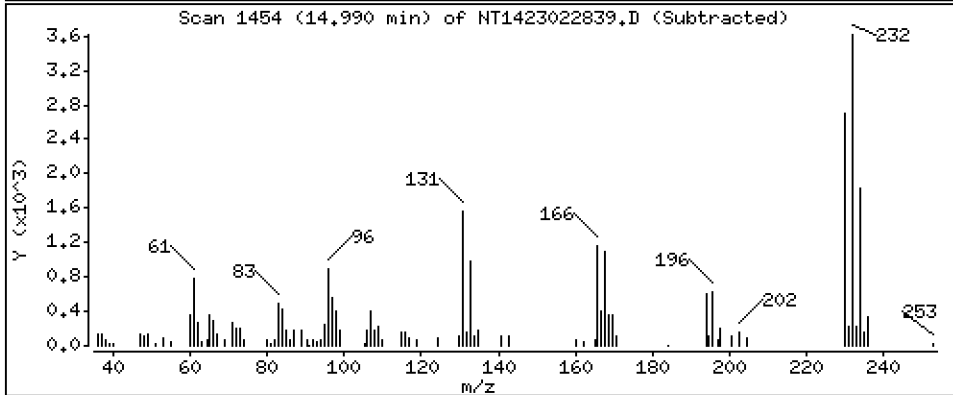
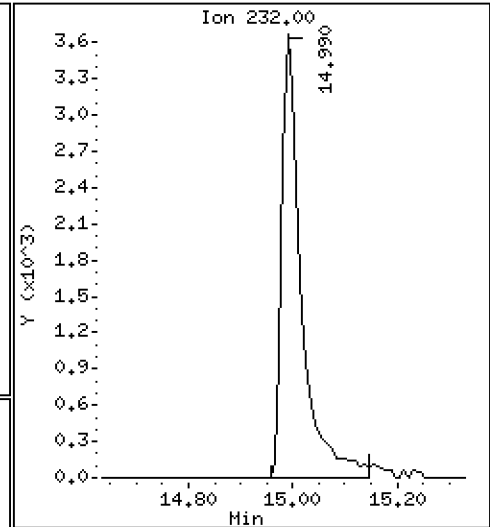
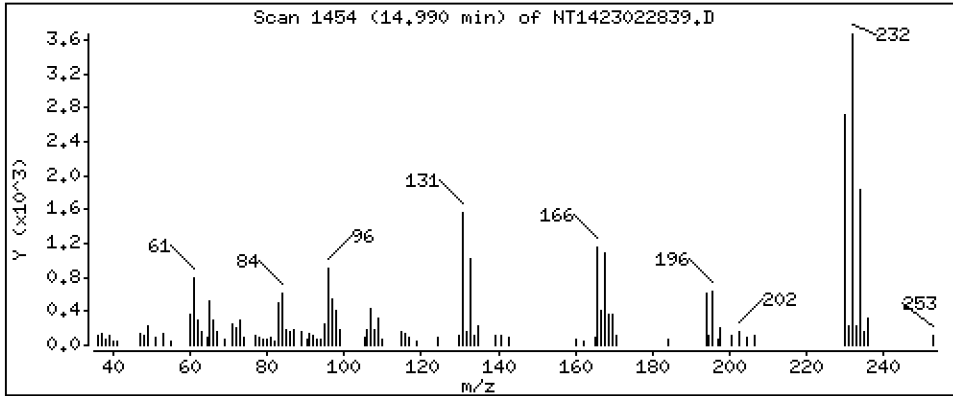
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,3850 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022839.D  
 Lab Smp Id: SLB0374-LCV4  
 Inj Date : 02-MAR-2023 00:28 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-LCV4  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 14-Mar-2023 08:52 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |            |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|------------|
|                                 |       |     |        |        |         |          | ON-COLUMN      | FINAL      |
|                                 | MASS  |     |        |        |         |          | (ug/mL)        | (ug/mL)    |
| \$ 1 2-Fluorophenol             | 112   |     | 6.058  | 6.050  | (0.740) | 21041    | 0.68149        | 0.6815     |
| \$ 2 Phenol-d5                  | 99    |     | 7.642  | 7.642  | (0.933) | 31560    | 0.71996        | 0.7200     |
| 3 Phenol                        | 94    |     | 7.665  | 7.665  | (0.936) | 25759    | 0.49250        | 0.4925     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.858  | 7.850  | (0.959) | 28250    | 0.75791        | 0.7579     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.781  | 7.781  | (0.950) | 18758    | 0.50903        | 0.5090     |
| 6 2-Chlorophenol                | 128   |     | 7.882  | 7.881  | (0.962) | 18201    | 0.47244        | 0.4724     |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.129  | 8.129  | (0.992) | 22055    | 0.51947        | 0.5195     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.191  | 8.199  | (1.000) | 113866   | 4.00000        |            |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.222  | 8.230  | (1.004) | 21018    | 0.50089        | 0.5009     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.548  | 8.548  | (1.044) | 13993    | 0.49866        | 0.4987     |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.572  | 8.571  | (1.046) | 21326    | 0.53002        | 0.5300     |
| 11 Benzyl alcohol               | 108   |     | 8.579  | 8.509  | (1.047) | 7595     | 0.33294        | 0.3329 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.789  | 8.789  | (1.073) | 5668     | 0.52235        | 0.5223     |
| 13 2-Methylphenol               | 108   |     | 8.750  | 8.750  | (1.068) | 19550    | 0.59167        | 0.5917     |
| 17 Hexachloroethane             | 117   |     | 9.146  | 9.154  | (1.117) | 6238     | 0.39586        | 0.3959     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.045  | 9.053  | (1.104) | 14070    | 0.55927        | 0.5593     |
| 15 4-Methylphenol               | 108   |     | 9.030  | 9.022  | (1.102) | 15567    | 0.40474        | 0.4047     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.293  | 9.285  | (0.873) | 21653    | 0.55112        | 0.5511     |
| 19 Nitrobenzene                 | 77    |     | 9.325  | 9.324  | (0.876) | 20215    | 0.53543        | 0.5354     |
| 20 Isophorone                   | 82    |     | 9.767  | 9.774  | (0.917) | 26127    | 0.44314        | 0.4431     |
| 21 2-Nitrophenol                | 139   |     | 9.953  | 9.945  | (0.935) | 7521     | 0.38482        | 0.3848     |
| 22 2,4-Dimethylphenol           | 107   |     | 10.046 | 10.046 | (0.943) | 35270    | 1.02472        | 1.025      |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.224 | 10.224 | (0.960) | 20112    | 0.52986        | 0.5299     |
| 24 Benzoic acid                 | 105   |     | 10.657 | 10.364 | (1.001) | 12402    | 0.90925        | 0.9092 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | 10.418 | 10.410 | (0.978) | 30431    | 0.87404        | 0.8740     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.572 | 10.572 | (0.993) | 19323    | 0.49675        | 0.4967     |
| * 27 Naphthalene-d8             | 136   |     | 10.650 | 10.649 | (1.000) | 401641   | 4.00000        |            |
| 28 Naphthalene                  | 128   |     | 10.688 | 10.688 | (1.004) | 56325    | 0.52575        | 0.5257     |
| 29 4-Chloroaniline              | 127   |     | 10.858 | 10.850 | (1.020) | 41091    | 0.89674        | 0.8967     |
| 30 Hexachlorobutadiene          | 225   |     | 11.067 | 11.066 | (1.039) | 10951    | 0.46136        | 0.4614     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.856 | 11.848 | (1.113) | 30858    | 0.99602        | 0.9960     |
| 32 2-Methylnaphthalene          | 142   |     | 12.080 | 12.080 | (1.134) | 40795    | 0.51420        | 0.5142     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.545 | 12.545 | (0.881) | 278      | 0.01142        | 0.01142    |

| Compounds                         | QUANT SIG |        |        |         |          | CONCENTRATIONS       |                  |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 12.723 | 12.723 | (0.894) | 20172    | 0.88977              | 0.8898           |
| 35 2,4,5-Trichlorophenol          | 196       | 12.808 | 12.800 | (0.900) | 20179    | 0.82322              | 0.8232           |
| § 36 2-Fluorobiphenyl             | 172       | 12.878 | 12.877 | (0.905) | 46913    | 0.51935              | 0.5193           |
| 37 2-Chloronaphthalene            | 162       | 13.063 | 13.063 | (0.918) | 37076    | 0.51201              | 0.5120           |
| 38 2-Nitroaniline                 | 65        | 13.357 | 13.349 | (0.939) | 20216    | 1.07044              | 1.070            |
| 39 Dimethylphthalate              | 163       | 13.799 | 13.798 | (0.970) | 40379    | 0.55314              | 0.5531           |
| 40 Acenaphthylene                 | 152       | 13.922 | 13.922 | (0.978) | 59655    | 0.56144              | 0.5614           |
| 41 2,6-Dinitrotoluene             | 165       | 13.922 | 13.930 | (0.978) | 17169    | 1.00365              | 1.004            |
| * 42 Acenaphthene-d10             | 164       | 14.232 | 14.239 | (1.000) | 232085   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138       | 14.216 | 14.208 | (0.999) | 13375    | 0.76285              | 0.7629           |
| 44 Acenaphthene                   | 153       | 14.301 | 14.301 | (1.005) | 35358    | 0.51975              | 0.5197           |
| 45 2,4-Dinitrophenol              | 184       | 14.487 | 14.417 | (1.018) | 3589     | 0.33180              | 0.3318 (M)       |
| 46 Dibenzofuran                   | 168       | 14.626 | 14.634 | (1.028) | 54403    | 0.50259              | 0.5026           |
| 47 4-Nitrophenol                  | 109       | 14.665 | 14.587 | (1.030) | 6712     | 0.77392              | 0.7739 (M)       |
| 48 2,4-Dinitrotoluene             | 165       | 14.719 | 14.726 | (1.034) | 21618    | 0.87783              | 0.8778           |
| 50 Diethylphthalate               | 149       | 15.245 | 15.252 | (1.071) | 37592    | 0.55068              | 0.5507           |
| 49 Fluorene                       | 166       | 15.330 | 15.337 | (1.077) | 47493    | 0.52074              | 0.5207           |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.345 | 15.345 | (1.078) | 23996    | 0.49449              | 0.4945           |
| 52 4-Nitroaniline                 | 138       | 15.484 | 15.469 | (1.088) | 12439    | 0.71571              | 0.7157           |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.561 | 15.553 | (0.903) | 10658    | 0.76010              | 0.7601           |
| 54 N-Nitrosodiphenylamine         | 169       | 15.600 | 15.607 | (0.905) | 29910    | 0.56432              | 0.5643           |
| § 55 2,4,6-Tribromophenol         | 330       | 15.870 | 15.870 | (1.115) | 6770     | 0.54242              | 0.5424           |
| 56 4-Bromophenyl-phenylether      | 248       | 16.340 | 16.340 | (0.948) | 11816    | 0.50709              | 0.5071           |
| 57 Hexachlorobenzene              | 284       | 16.626 | 16.634 | (0.965) | 13457    | 0.52527              | 0.5253           |
| 58 Pentachlorophenol              | 266       | 17.029 | 17.005 | (0.988) | 6063     | 0.50236              | 0.5024 (M)       |
| * 59 Phenanthrene-d10             | 188       | 17.238 | 17.245 | (1.000) | 421769   | 4.00000              |                  |
| 60 Phenanthrene                   | 178       | 17.284 | 17.291 | (1.003) | 57808    | 0.51522              | 0.5152           |
| 61 Anthracene                     | 178       | 17.385 | 17.384 | (1.009) | 56384    | 0.53157              | 0.5316           |
| 62 Carbazole                      | 167       | 17.740 | 17.732 | (1.029) | 45658    | 0.49113              | 0.4911           |
| 63 Di-n-butylphthalate            | 149       | 18.591 | 18.591 | (1.079) | 59448    | 0.49567              | 0.4957           |
| 64 Fluoranthene                   | 202       | 19.713 | 19.713 | (0.882) | 60055    | 0.46780              | 0.4678           |
| 65 Pyrene                         | 202       | 20.139 | 20.139 | (0.901) | 64188    | 0.47423              | 0.4742           |
| § 66 Terphenyl-d14                | 244       | 20.472 | 20.471 | (0.916) | 48524    | 0.46562              | 0.4656           |
| 67 Butylbenzylphthalate           | 149       | 21.439 | 21.439 | (0.959) | 24089    | 0.50341              | 0.5034           |
| 68 Benzo(a)anthracene             | 228       | 22.338 | 22.337 | (0.999) | 61963    | 0.54666              | 0.5467           |
| * 69 Chrysene-d12                 | 240       | 22.361 | 22.368 | (1.000) | 338375   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.322 | 22.330 | (0.998) | 61380    | 1.89623              | 1.896            |
| 71 Chrysene                       | 228       | 22.407 | 22.415 | (1.002) | 57233    | 0.52532              | 0.5253           |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.493 | 22.492 | (0.958) | 33483    | 0.45826              | 0.4583           |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.468 | 23.476 | (1.000) | 478625   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149       | 23.476 | 23.483 | (1.000) | 63483    | 0.50375              | 0.5038           |
| 74 Benzo(b)fluoranthene           | 252       | 24.103 | 24.103 | (0.975) | 59947    | 0.57480              | 0.5748           |
| 75 Benzo(k)fluoranthene           | 252       | 24.134 | 24.141 | (0.977) | 65965    | 0.58629              | 0.5863           |
| 76 Benzo(a)pyrene                 | 252       | 24.622 | 24.621 | (0.996) | 48646    | 0.54368              | 0.5437           |
| * 77 Perylene-d12                 | 264       | 24.715 | 24.714 | (1.000) | 315661   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.792 | 26.784 | (1.084) | 28384    | 0.25201              | 0.2520           |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.808 | 26.800 | (1.085) | 26906    | 0.28126              | 0.2813           |
| 80 Benzo(g,h,i)perylene           | 276       | 27.398 | 27.383 | (1.109) | 19508    | 0.19859              | 0.1986           |
| 90 N-Nitrosodimethylamine         | 74        | 3.988  | 3.988  | (0.487) | 16106    | 0.69000              | 0.6900           |
| 91 Aniline                        | 93        | 7.681  | 7.681  | (0.938) | 49138    | 0.91246              | 0.9125           |
| 93 Benzidine                      | 184       | 20.015 | 19.992 | (0.895) | 33592    | 0.61245              | 0.6124           |
| 103 Pyridine                      | 79        | 4.019  | 3.988  | (0.491) | 27003    | 0.39141              | 0.3914           |
| 105 1-methylnaphthalene           | 142       | 12.297 | 12.297 | (1.155) | 37145    | 0.50856              | 0.5086           |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.662 | 15.669 | (1.100) | 46156    | 0.58895              | 0.5890           |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 24.134 | 24.141 | (0.977) | 119075   | 1.16718              | 1.167            |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 14.989 | 14.981 | (1.053) | 10064    | 0.38501              | 0.3850           |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023  
 Lab File ID: NT1423022839.D Calibration Time: 22:40  
 Lab Smp Id: SLB0374-LCV4  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 115350   | 57675      | 230700  | 113866 | -1.29  |
| 27 Naphthalene-d8     | 415895   | 207948     | 831790  | 401641 | -3.43  |
| 42 Acenaphthene-d10   | 246020   | 123010     | 492040  | 232085 | -5.66  |
| 59 Phenanthrene-d10   | 448598   | 224299     | 897196  | 421769 | -5.98  |
| 69 Chrysene-d12       | 373978   | 186989     | 747956  | 338375 | -9.52  |
| 134 Di-n-octylphthala | 541572   | 270786     | 1083144 | 478625 | -11.62 |
| 77 Perylene-d12       | 357819   | 178910     | 715638  | 315661 | -11.78 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.20     | 7.70     | 8.70  | 8.19   | -0.09 |
| 27 Naphthalene-d8     | 10.65    | 10.15    | 11.15 | 10.65  | 0.00  |
| 42 Acenaphthene-d10   | 14.24    | 13.74    | 14.74 | 14.23  | -0.05 |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.24  | -0.04 |
| 69 Chrysene-d12       | 22.37    | 21.87    | 22.87 | 22.36  | -0.03 |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.47  | -0.03 |
| 77 Perylene-d12       | 24.71    | 24.21    | 25.21 | 24.72  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022839.D

Lab ID: SLB0374-LCV4  
nt14.i, ABN.m, 02-MAR-2023 00:28

RT CO-ELUTION COMPOUNDS

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13.923 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND          |
|-------|---------|--------|-------------------|
| 1.047 | 1.038   | 0.0095 | Benzyl alcohol    |
| 1.001 | 0.973   | 0.0276 | Benzoic acid      |
| 1.018 | 1.012   | 0.0054 | 2,4-Dinitrophenol |
| 1.030 | 1.024   | 0.0060 | 4-Nitrophenol     |

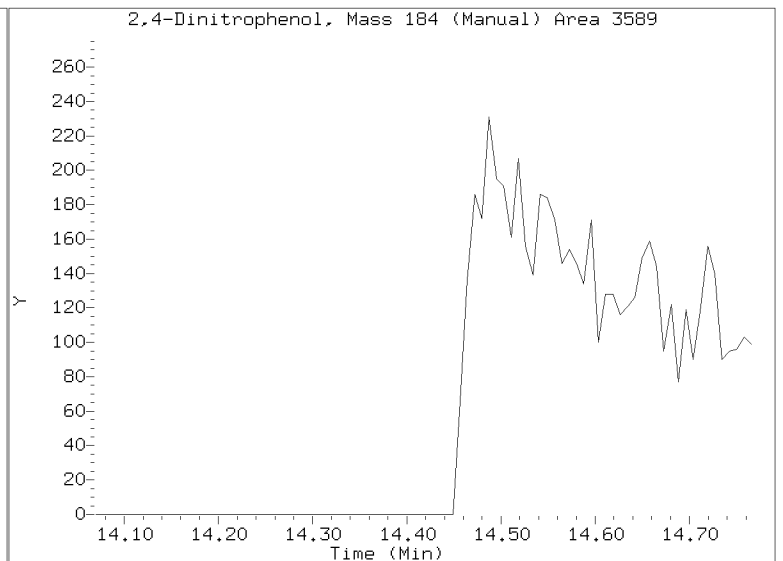
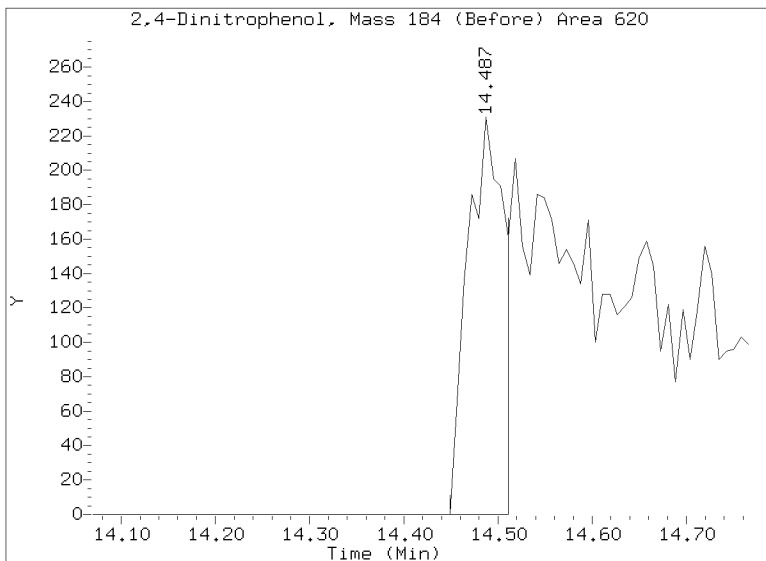
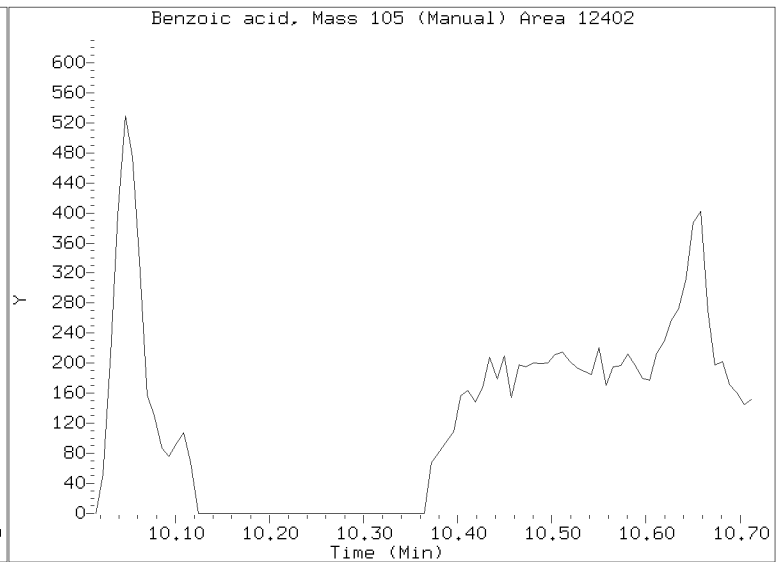
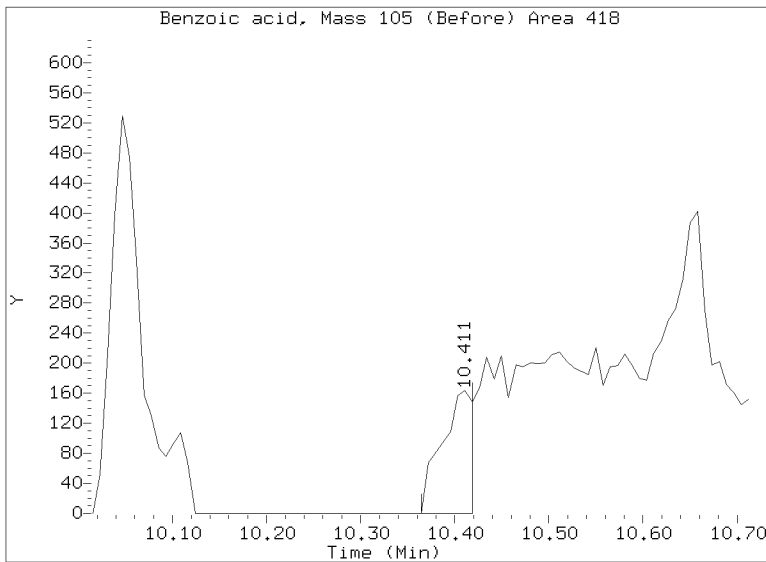
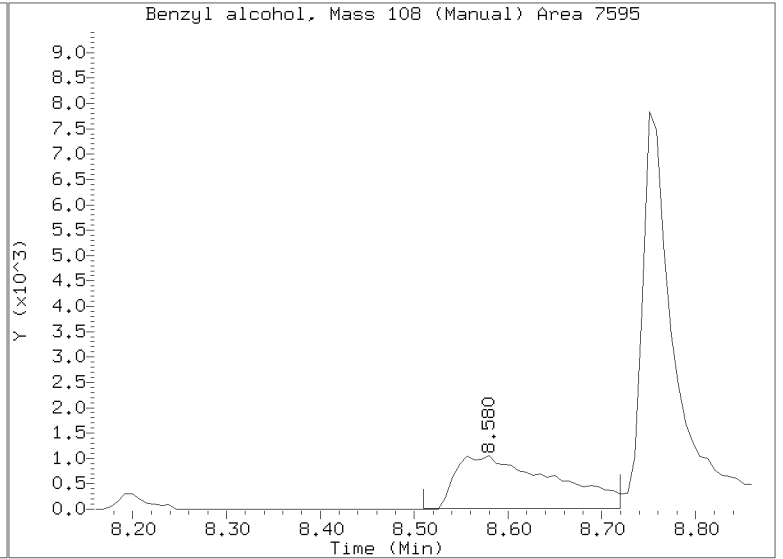
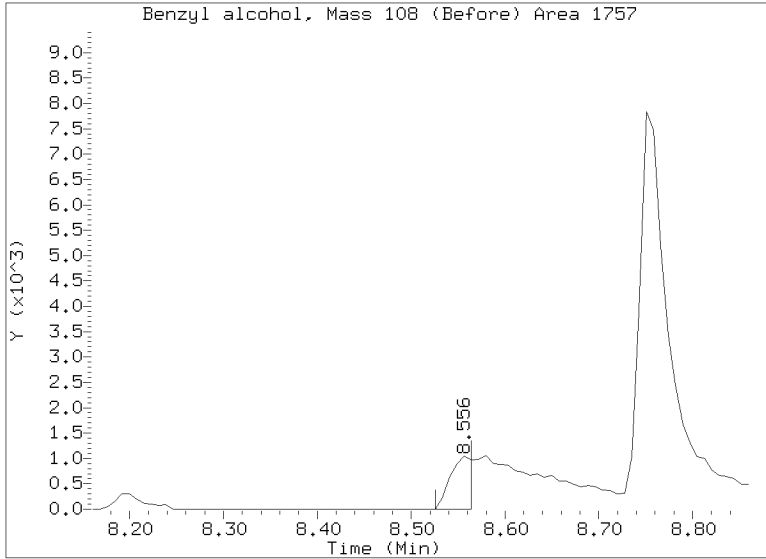
RRT check based on Ccal File: NT1423022836.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

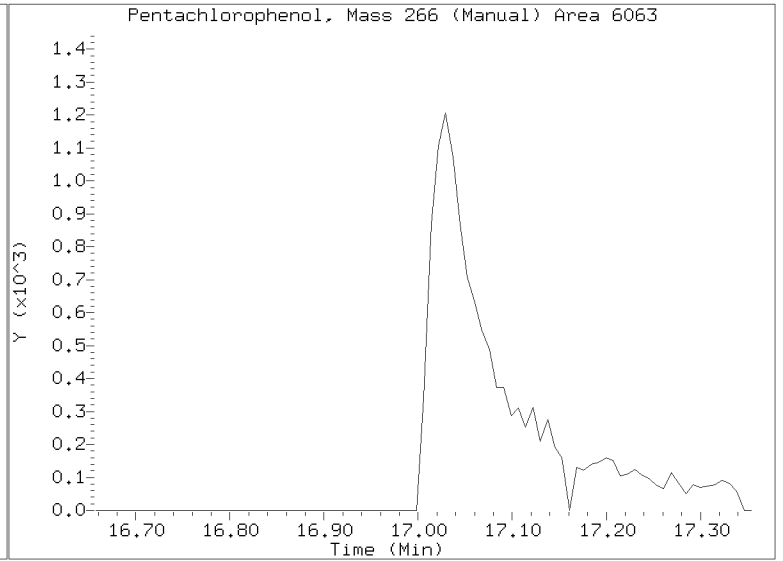
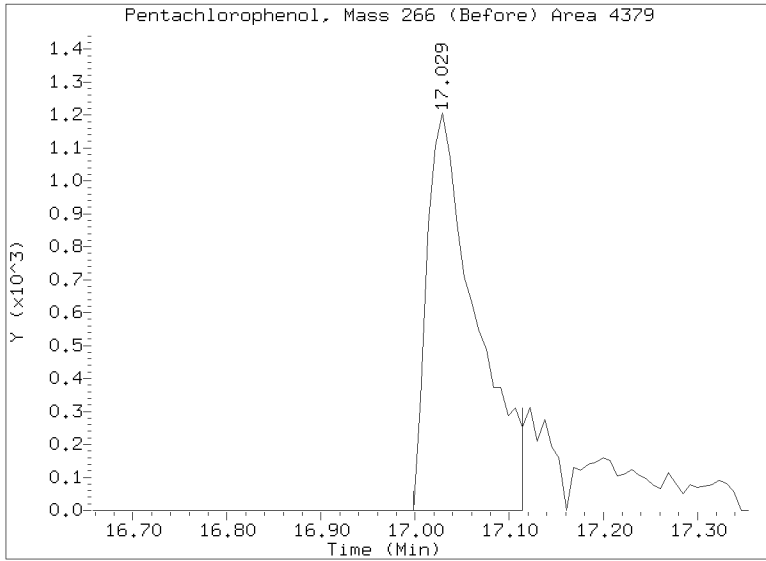
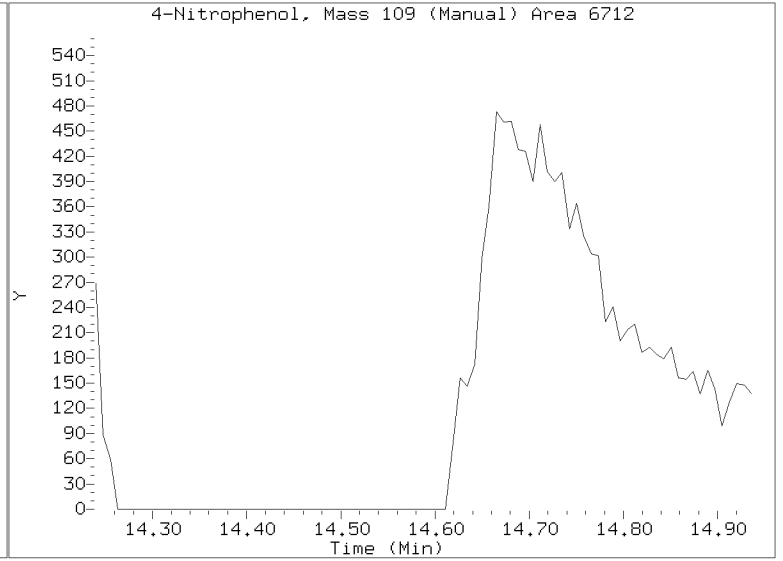
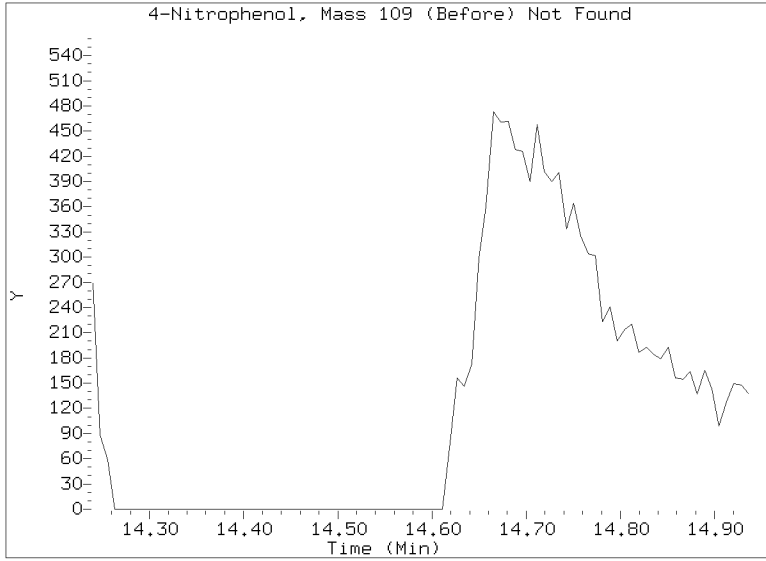
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022839.D  
Injection Date: 02-MAR-2023 00:28  
Lab ID:SLB0374-LCV4 Client ID:  
Report Date: 03/14/2023 08:53



# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022839.D  
Injection Date: 02-MAR-2023 00:28  
Lab ID:SLB0374-LCV4 Client ID:  
Report Date: 03/14/2023 08:53







LOW-CONCENTRATION  
CONTINUING CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022850.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/02/23

Lab Sample ID: SLB0374-LCV5

Injection Time: 07:04

Sequence Name: ABN 0.2

| COMPOUND                     | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|------------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|---------|
|                              |      | STD           | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| Phenol                       | A    | 0.20000       | 0.2  | 1.8373500             | 1.5293740 |     | -16.8        | +/-50   |
| bis(2-chloroethyl) ether     | A    | 0.20000       | 0.2  | 1.5312550             | 1.5345710 |     | 18.3         | +/-50   |
| 2-Chlorophenol               | A    | 0.20000       | 0.2  | 1.3533690             | 1.4084650 |     | 4.1          | +/-50   |
| 1,3-Dichlorobenzene          | A    | 0.20000       | 0.2  | 1.4914740             | 1.5967570 |     | 7.1          | +/-50   |
| 1,4-Dichlorobenzene          | A    | 0.20000       | 0.2  | 1.4740600             | 1.5326650 |     | 4.0          | +/-50   |
| 1,2-Dichlorobenzene          | A    | 0.20000       | 0.2  | 1.4134490             | 1.4903990 |     | 5.4          | +/-50   |
| Benzyl Alcohol               | A    | 0.20000       | 0.08 | 0.6439892             | 0.3284283 |     | -59.0        | +/-50 * |
| 2,2'-Oxybis(1-chloropropane) | A    | 0.20000       | 0.2  | 0.3811859             | 0.3855914 |     | 1.2          | +/-50   |
| 2-Methylphenol               | A    | 0.20000       | 0.2  | 1.1607310             | 1.0084970 |     | -13.1        | +/-50   |
| Hexachloroethane             | A    | 0.20000       | 0.2  | 0.5535732             | 0.4176374 |     | -24.6        | +/-50   |
| N-Nitroso-di-n-Propylamine   | A    | 0.20000       | 0.2  | 0.8837751             | 0.9371292 |     | 6.0          | +/-50   |
| 4-Methylphenol               | A    | 0.20000       | 0.1  | 1.1353050             | 0.9459635 |     | -30.1        | +/-50   |
| Nitrobenzene                 | A    | 0.20000       | 0.2  | 0.3760061             | 0.3850423 |     | 2.4          | +/-50   |
| Isophorone                   | A    | 0.20000       | 0.2  | 0.4996273             | 0.4820958 |     | -18.0        | +/-50   |
| 2-Nitrophenol                | A    | 0.20000       | 0.1  | 0.1467597             | 0.1272089 |     | -34.6        | +/-50   |
| 2,4-Dimethylphenol           | A    | 0.40000       | 0.4  | 0.3427845             | 0.3484948 |     | 1.7          | +/-50   |
| Bis(2-Chloroethoxy)methane   | A    | 0.20000       | 0.2  | 0.3780235             | 0.3433713 |     | -9.2         | +/-50   |
| 2,4-Dichlorophenol           | A    | 0.40000       | 0.3  | 0.2946235             | 0.2863298 |     | -17.7        | +/-50   |
| 1,2,4-Trichlorobenzene       | A    | 0.20000       | 0.2  | 0.3874001             | 0.3786990 |     | -2.2         | +/-50   |
| Naphthalene                  | A    | 0.20000       | 0.2  | 1.0669580             | 1.1638130 |     | 9.1          | +/-50   |
| Benzoic acid                 | A    | 0.80000       | 0.0  | 0.1358415             |           |     |              | +/-50 * |
| 4-Chloroaniline              | A    | 0.40000       | 0.3  | 0.4563565             | 0.3908734 |     | -14.4        | +/-50   |
| Hexachlorobutadiene          | A    | 0.20000       | 0.2  | 0.2363916             | 0.2141618 |     | -9.4         | +/-50   |
| 4-Chloro-3-Methylphenol      | A    | 0.40000       | 0.3  | 0.3085482             | 0.2646648 |     | -14.2        | +/-50   |
| 2-Methylnaphthalene          | A    | 0.20000       | 0.2  | 0.7901196             | 0.7290968 |     | -7.7         | +/-50   |
| Hexachlorocyclopentadiene    | A    | 0.40000       | 0.0  | 0.3443795             |           |     |              | +/-50 * |
| 2,4,6-Trichlorophenol        | A    | 0.40000       | 0.3  | 0.3907367             | 0.3166354 |     | -19.0        | +/-50   |
| 2,4,5-Trichlorophenol        | A    | 0.40000       | 0.4  | 0.4224702             | 0.4424994 |     | 4.7          | +/-50   |
| 2-Chloronaphthalene          | A    | 0.20000       | 0.2  | 1.2480280             | 1.3002330 |     | 4.2          | +/-50   |
| 2-Nitroaniline               | A    | 0.40000       | 0.4  | 0.3254949             | 0.2989650 |     | -8.2         | +/-50   |
| Acenaphthylene               | A    | 0.20000       | 0.2  | 1.8312950             | 1.9995830 |     | 9.2          | +/-50   |
| Dimethylphthalate            | A    | 0.20000       | 0.2  | 1.2581570             | 1.3187280 |     | 4.8          | +/-50   |
| 2,6-Dinitrotoluene           | A    | 0.40000       | 0.4  | 0.2948315             | 0.2686603 |     | -8.9         | +/-50   |
| Acenaphthene                 | A    | 0.20000       | 0.2  | 1.1724930             | 1.2341530 |     | 5.3          | +/-50   |

\* Values outside of QC limits



LOW-CONCENTRATION  
CONTINUING CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022850.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/02/23

Lab Sample ID: SLB0374-LCV5

Injection Time: 07:04

Sequence Name: ABN 0.2

| COMPOUND                   | TYPE | CONC. (ug/mL) |       | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|----------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|---------|
|                            |      | STD           | CCV   | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| 3-Nitroaniline             | A    | 0.40000       | 0.3   | 0.3021810             | 0.2331024 |     | -22.9        | +/-50   |
| 2,4-Dinitrophenol          | A    | 0.80000       | 0.0   | 0.1437811             |           |     |              | +/-50 * |
| Dibenzofuran               | A    | 0.20000       | 0.2   | 1.8656210             | 1.8669030 |     | 0.07         | +/-50   |
| 4-Nitrophenol              | A    | 0.40000       | 0.0   | 0.1323756             |           |     |              | +/-50 * |
| 2,4-Dinitrotoluene         | A    | 0.40000       | 0.3   | 0.4244424             | 0.3121635 |     | -26.5        | +/-50   |
| Fluorene                   | A    | 0.20000       | 0.2   | 1.5719010             | 1.6668400 |     | 6.0          | +/-50   |
| 4-Chlorophenylphenyl ether | A    | 0.20000       | 0.2   | 0.8363665             | 0.8199611 |     | -2.0         | +/-50   |
| Diethyl phthalate          | A    | 0.20000       | 0.2   | 1.1765440             | 1.2753990 |     | 8.4          | +/-50   |
| 4-Nitroaniline             | A    | 0.40000       | 0.3   | 0.2995450             | 0.2182106 |     | -27.2        | +/-50   |
| 4,6-Dinitro-2-methylphenol | A    | 0.80000       | 0.2   | 0.0975169             | 0.0273845 |     | -79.4        | +/-50 * |
| N-Nitrosodiphenylamine     | A    | 0.20000       | 0.2   | 0.5026629             | 0.5441959 |     | 8.3          | +/-50   |
| 4-Bromophenyl phenyl ether | A    | 0.20000       | 0.2   | 0.2209900             | 0.2127568 |     | -3.7         | +/-50   |
| Hexachlorobenzene          | A    | 0.20000       | 0.2   | 0.2429692             | 0.2446895 |     | 0.7          | +/-50   |
| Pentachlorophenol          | A    | 0.40000       | 0.1   | 0.0938263             | 0.0414359 |     | -63.7        | +/-50 * |
| Phenanthrene               | A    | 0.20000       | 0.2   | 1.0640870             | 1.1192230 |     | 5.2          | +/-50   |
| Anthracene                 | A    | 0.20000       | 0.2   | 1.0059580             | 1.0296970 |     | 2.4          | +/-50   |
| Carbazole                  | A    | 0.20000       | 0.2   | 0.8816605             | 0.8270896 |     | -6.2         | +/-50   |
| Di-n-Butylphthalate        | A    | 0.20000       | 0.2   | 0.9469101             | 1.1009830 |     | -3.3         | +/-50   |
| Fluoranthene               | A    | 0.20000       | 0.2   | 1.5175930             | 1.3378110 |     | -11.8        | +/-50   |
| Pyrene                     | A    | 0.20000       | 0.2   | 1.6000330             | 1.4700560 |     | -8.1         | +/-50   |
| Butylbenzylphthalate       | A    | 0.20000       | 0.2   | 0.4562763             | 0.5661650 |     | -0.04        | +/-50   |
| Benzo(a)anthracene         | A    | 0.20000       | 0.2   | 1.3399020             | 1.4779360 |     | 10.3         | +/-50   |
| 3,3'-Dichlorobenzidine     | A    | 0.60000       | 0.7   | 0.3826468             | 0.4574063 |     | 19.5         | +/-50   |
| Chrysene                   | A    | 0.20000       | 0.2   | 1.2879040             | 1.3681940 |     | 6.2          | +/-50   |
| bis(2-Ethylhexyl)phthalate | A    | 0.20000       | 0.2   | 0.5161185             | 0.5533322 |     | -9.4         | +/-50   |
| Di-n-Octylphthalate        | A    | 0.20000       | 0.2   | 1.0531830             | 1.0842520 |     | 3.0          | +/-50   |
| Benzofluoranthenes, Total  | A    | 0.40000       | 0.5   | 1.2927770             | 1.6825760 |     | 30.2         | +/-50   |
| Benzo(a)pyrene             | A    | 0.20000       | 0.2   | 1.1338150             | 1.2383290 |     | 9.2          | +/-50   |
| Indeno(1,2,3-cd)pyrene     | A    | 0.20000       | 0.09  | 1.4272450             | 0.6443019 |     | -54.9        | +/-50 * |
| Dibenzo(a,h)anthracene     | A    | 0.20000       | 0.09  | 1.2122070             | 0.5531058 |     | -54.4        | +/-50 * |
| Benzo(g,h,i)perylene       | A    | 0.20000       | 0.07  | 1.2448130             | 0.4485477 |     | -64.0        | +/-50 * |
| 1-Methylnaphthalene        | A    | 0.20000       | 0.2   | 0.7274101             | 0.7061143 |     | -2.9         | +/-50   |
| 2-Fluorophenol             | A    | 0.30000       | 0.216 | 1.0846110             | 0.7806523 |     | -28.0        | +/-50   |
| Phenol-d5                  | A    | 0.30000       | 0.236 | 1.5399100             | 1.2138220 |     | -21.2        | +/-50   |

\* Values outside of QC limits



**LOW-CONCENTRATION  
CONTINUING CALIBRATION CHECK  
EPA 8270E**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT14</u>                      | Calibration:      | <u>GC00033</u>         |
| Lab File ID:   | <u>NT1423022850.D</u>            | Calibration Date: | <u>02/28/2023</u>      |
| Sequence:      | <u>SLB0374</u>                   | Injection Date:   | <u>03/02/23</u>        |
| Lab Sample ID: | <u>SLB0374-LCV5</u>              | Injection Time:   | <u>07:04</u>           |
| Sequence Name: | <u>ABN 0.2</u>                   |                   |                        |

| COMPOUND               | TYPE | CONC. (ug/mL) |       | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|-------|
|                        |      | STD           | CCV   | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| 2-Chlorophenol-d4      | A    | 0.30000       | 0.281 | 1.3093910             | 1.2282570 |     | -6.2         | +/-50 |
| 1,2-Dichlorobenzene-d4 | A    | 0.20000       | 0.194 | 0.9857584             | 0.9553175 |     | -3.1         | +/-50 |
| Nitrobenzene-d5        | A    | 0.20000       | 0.205 | 0.3912861             | 0.4006080 |     | 2.4          | +/-50 |
| 2-Fluorobiphenyl       | A    | 0.20000       | 0.208 | 1.5568580             | 1.6189090 |     | 4.0          | +/-50 |
| 2,4,6-Tribromophenol   | A    | 0.30000       | 0.225 | 0.1850894             | 0.1608141 |     | -25.1        | +/-50 |
| p-Terphenyl-d14        | A    | 0.20000       | 0.180 | 1.2319340             | 1.1057450 |     | -10.2        | +/-50 |

\* Values outside of QC limits

\* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228 JB\NT1423022850.D

Date: 02-MAR-2023 07:04

Client ID:

Sample Info: SLB0374-LCWS

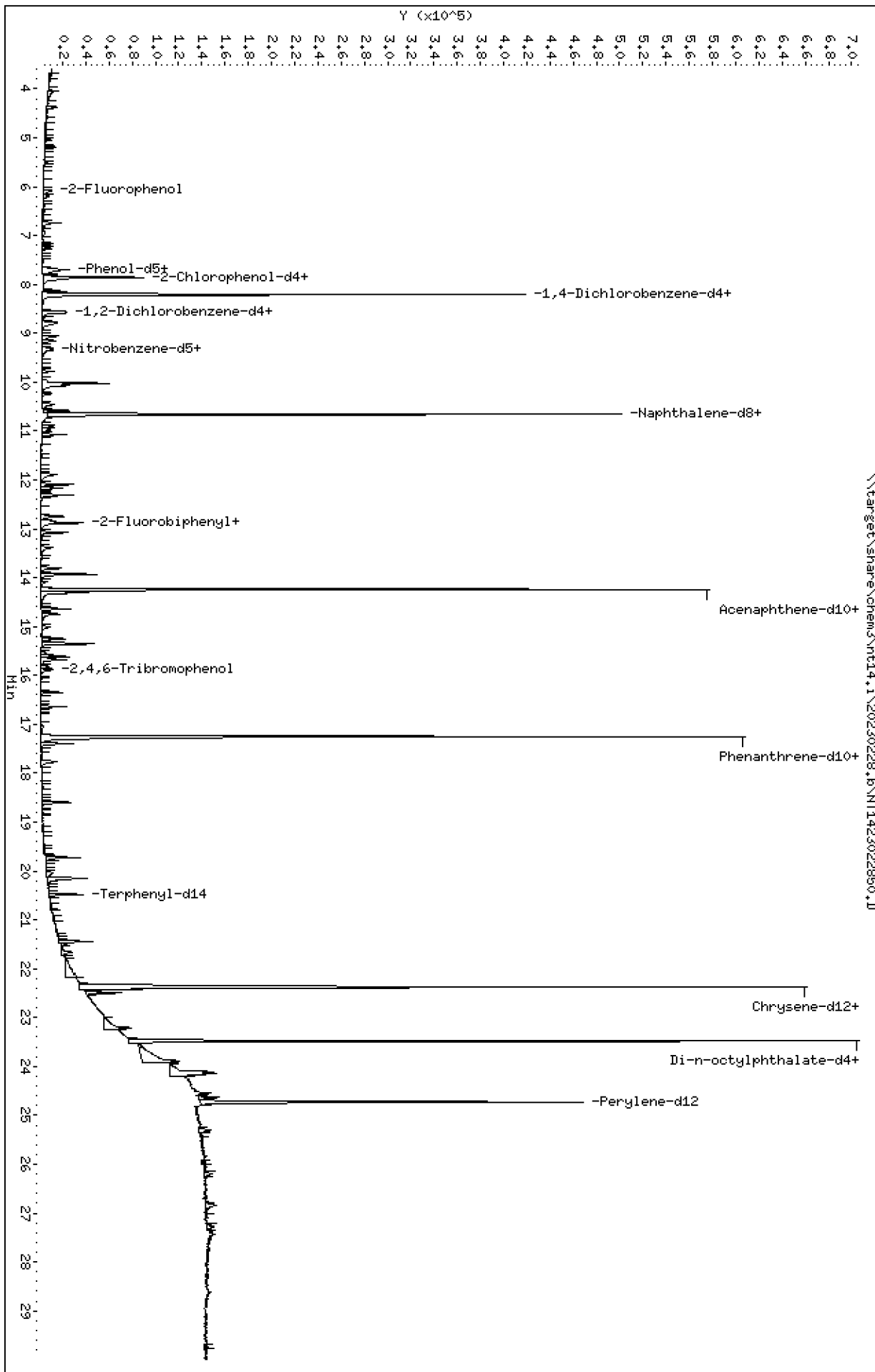
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

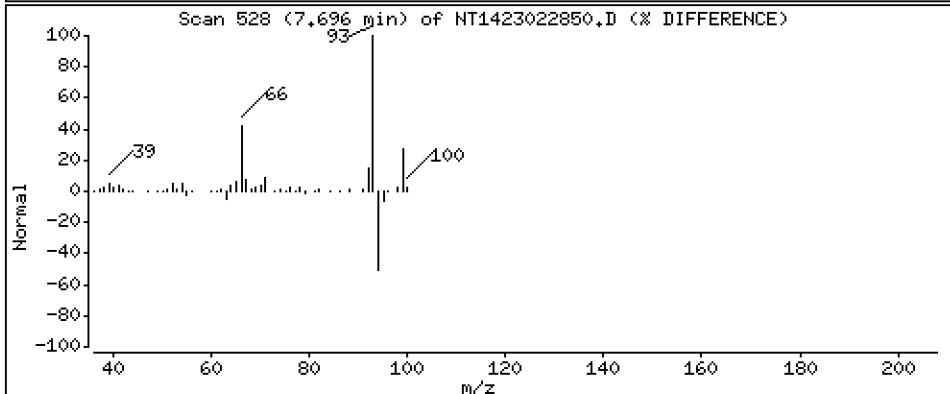
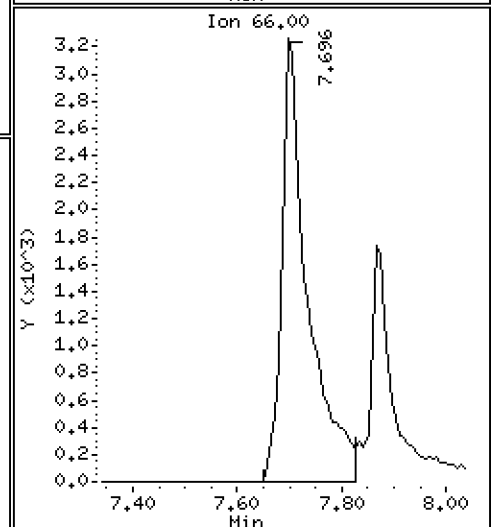
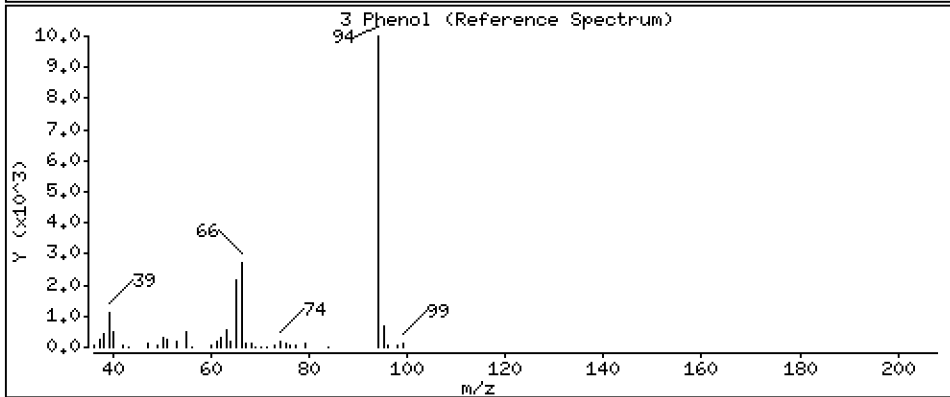
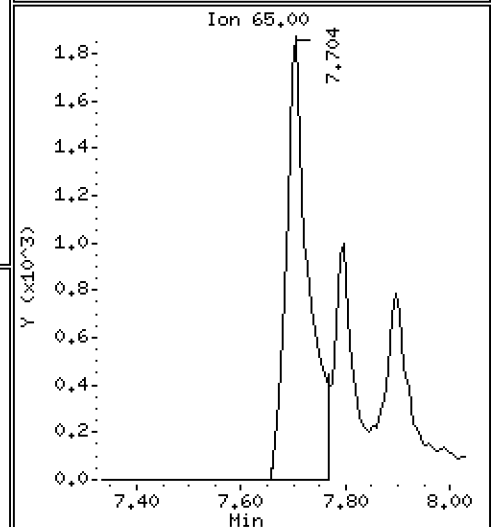
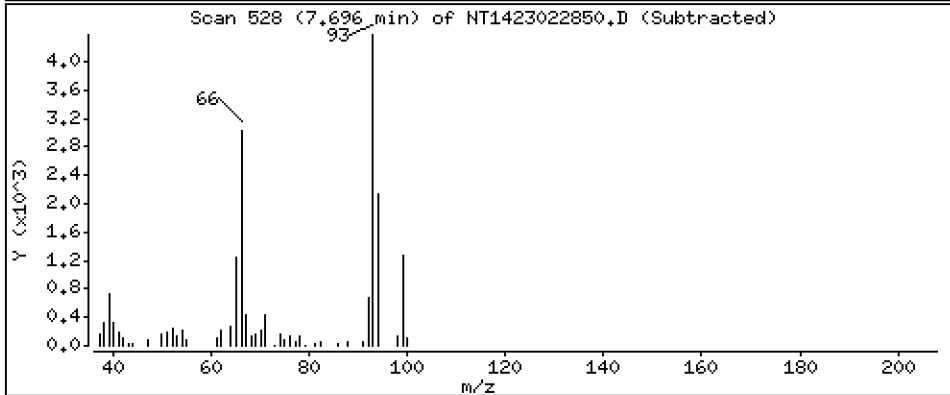
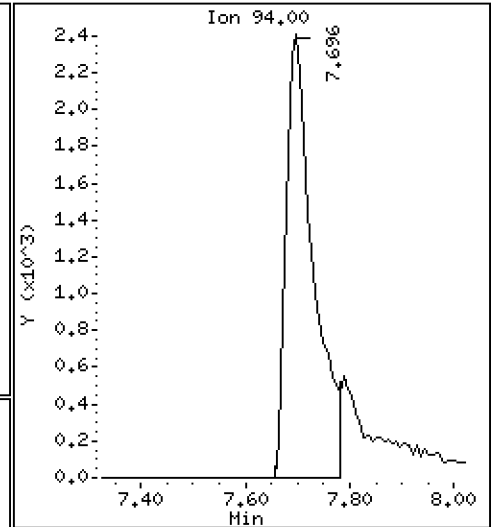
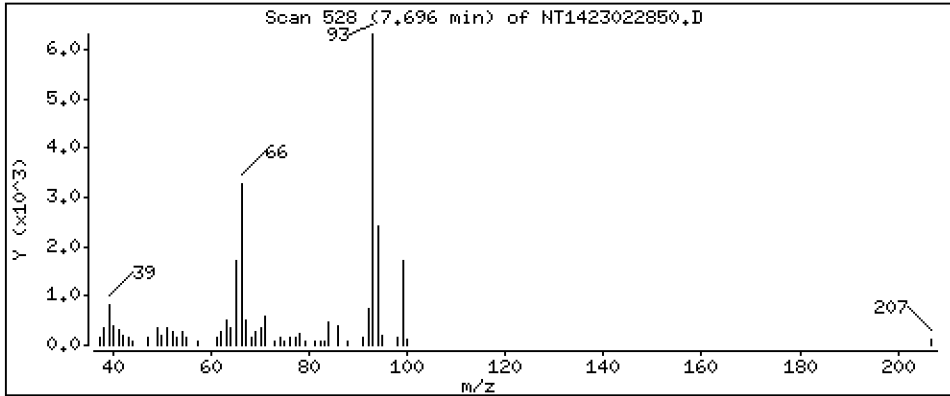
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,1665 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

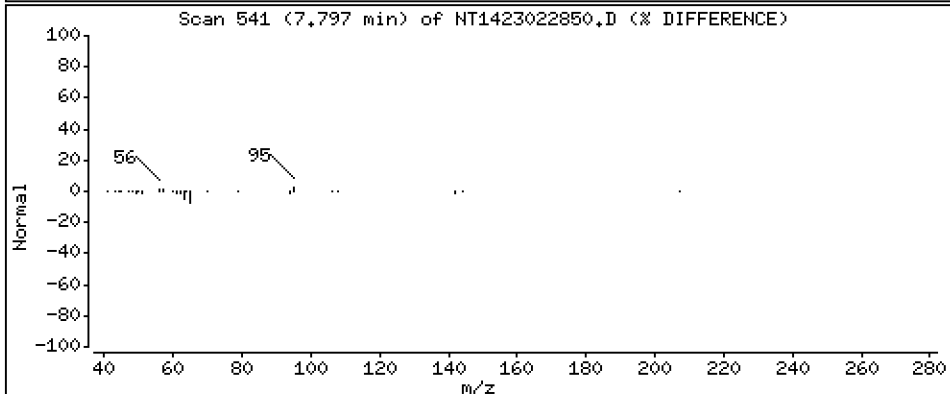
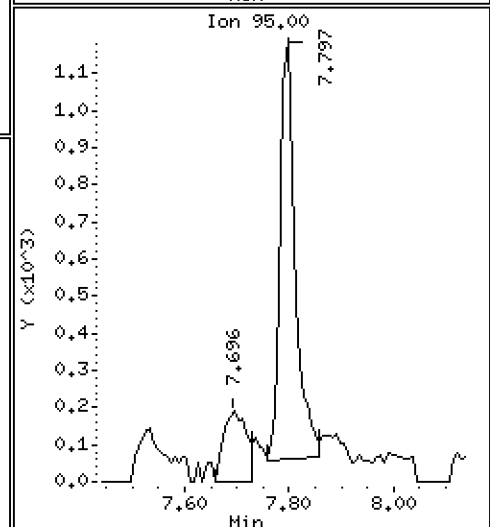
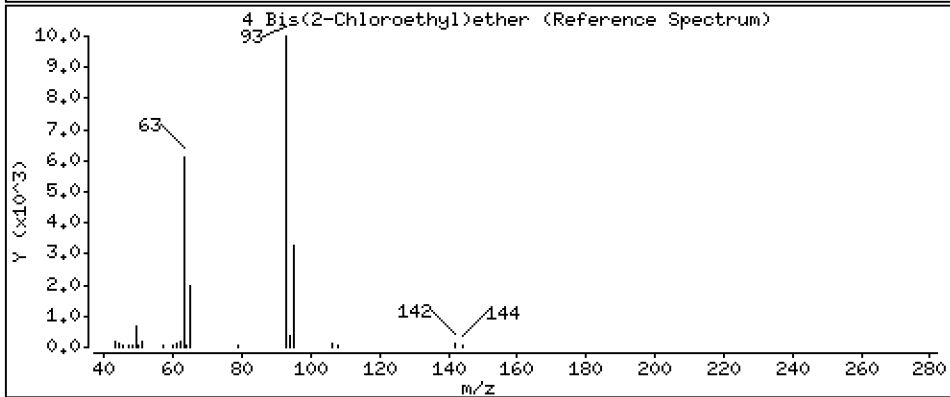
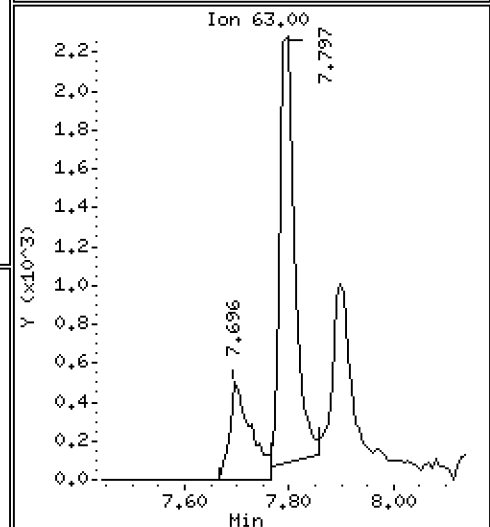
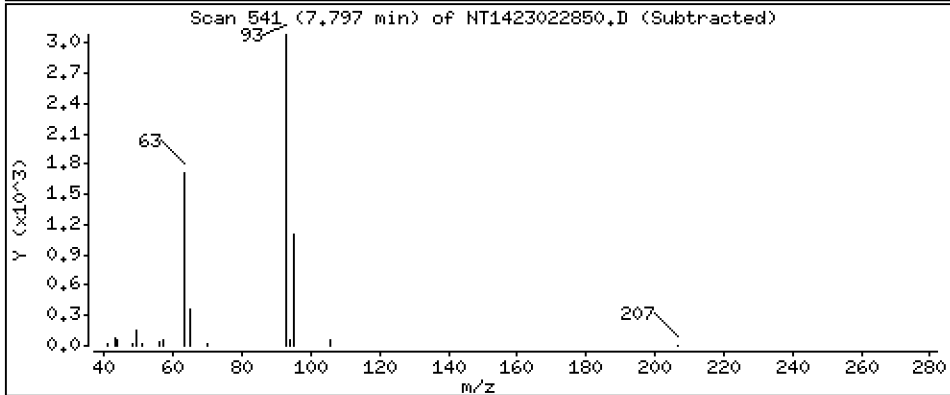
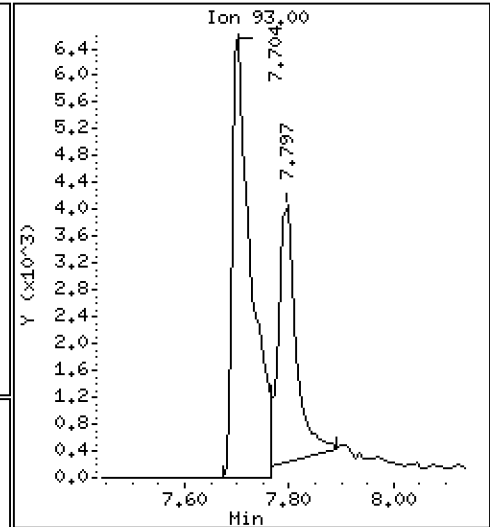
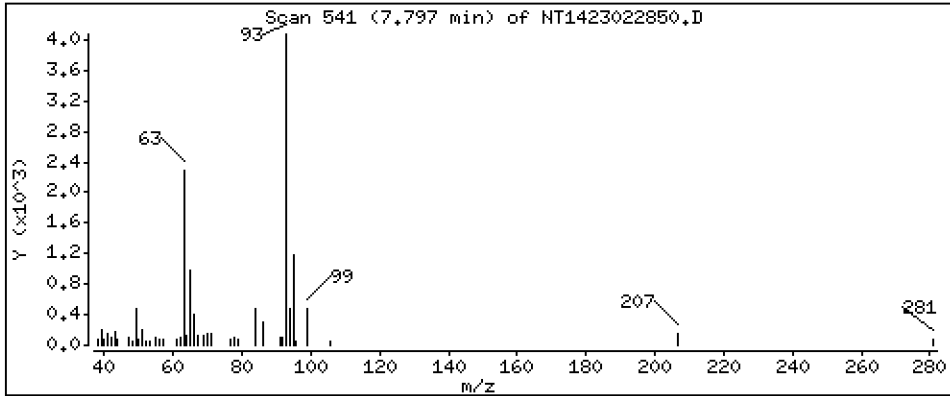
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,2366 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

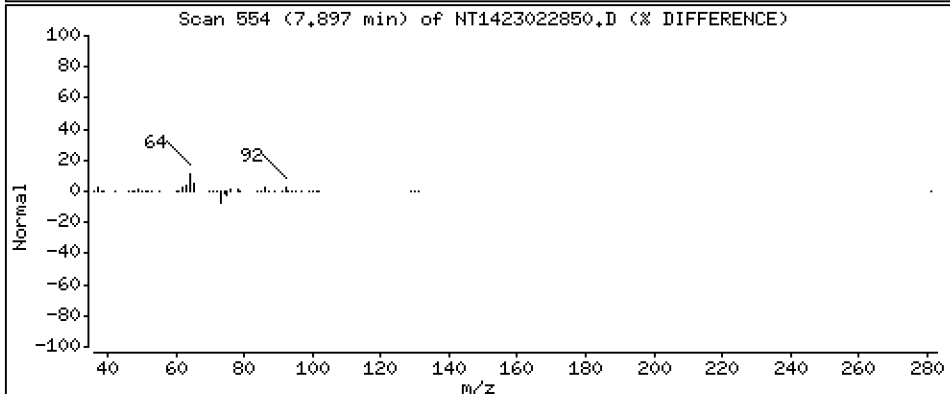
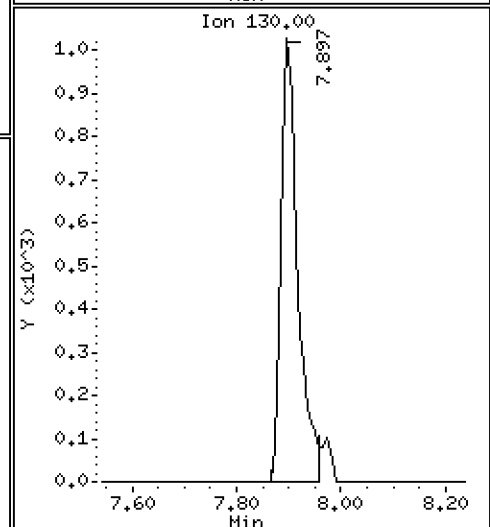
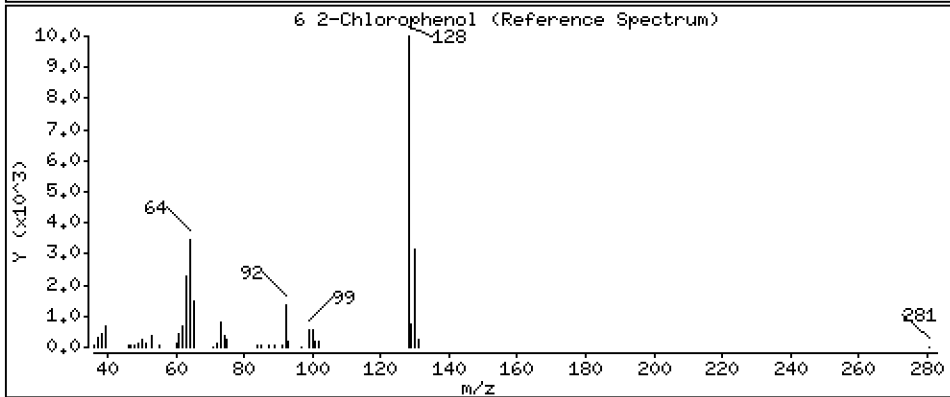
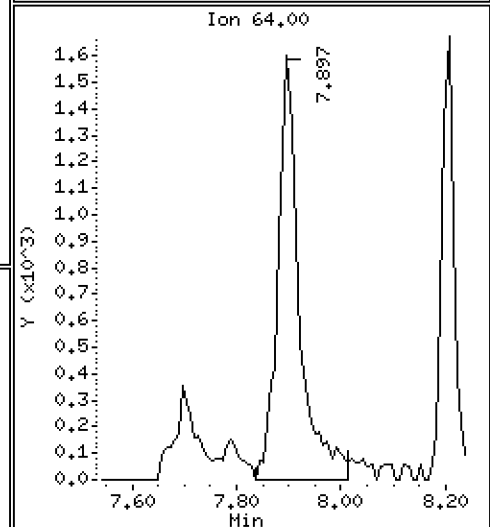
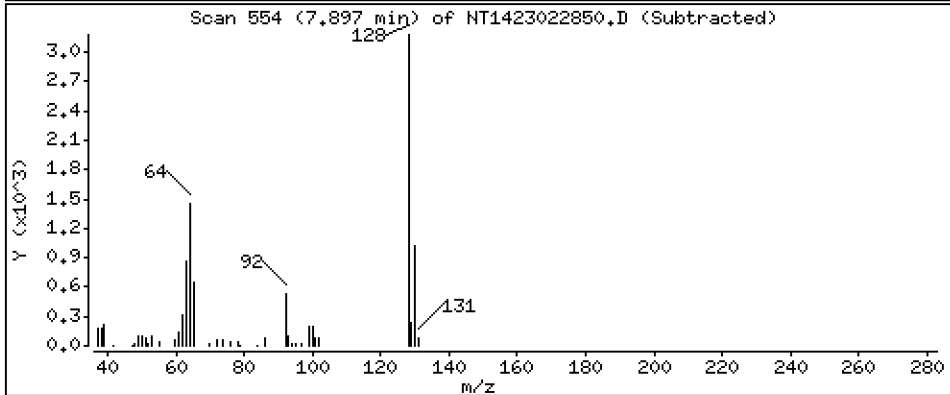
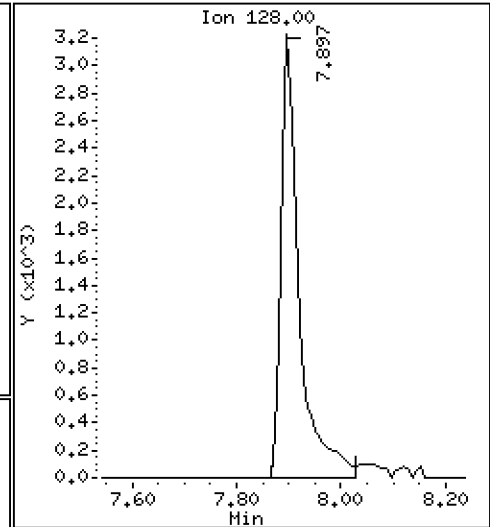
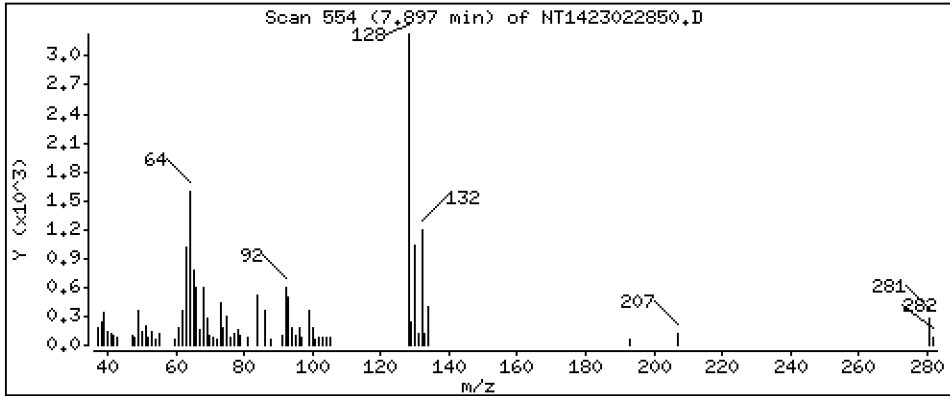
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,2081 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

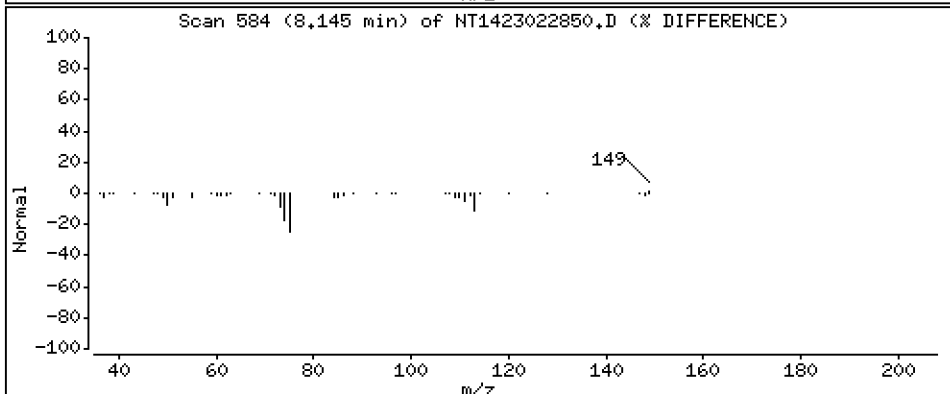
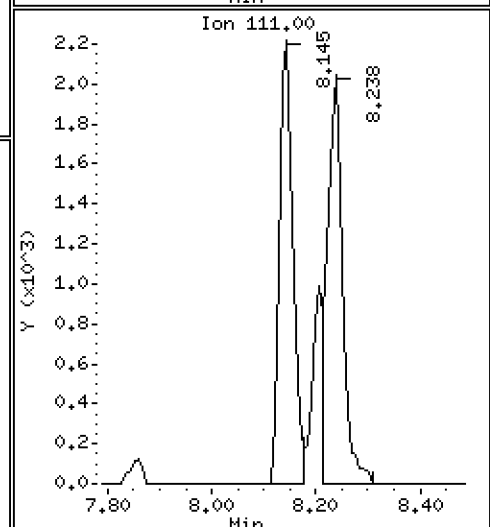
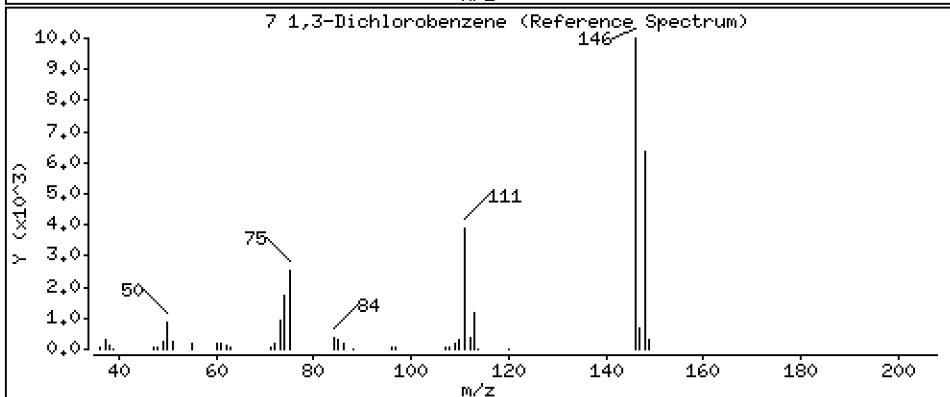
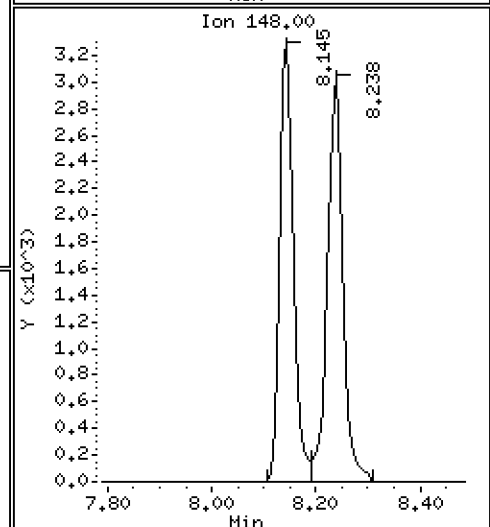
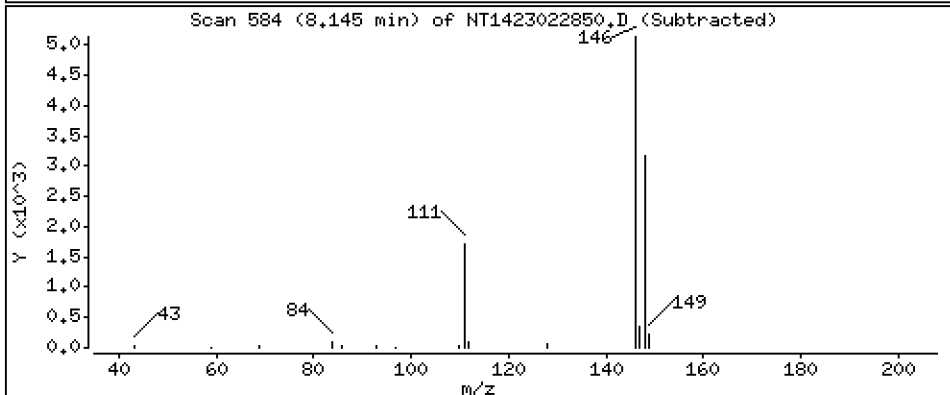
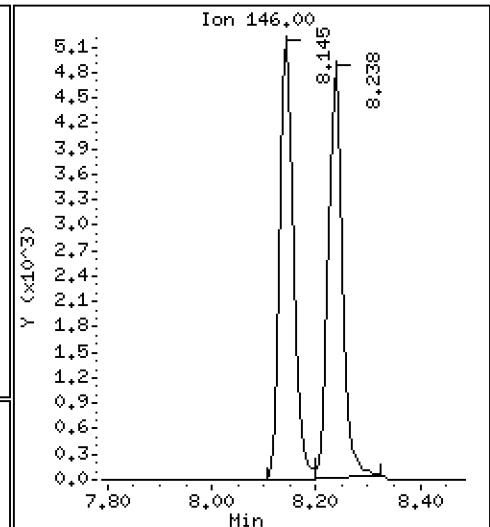
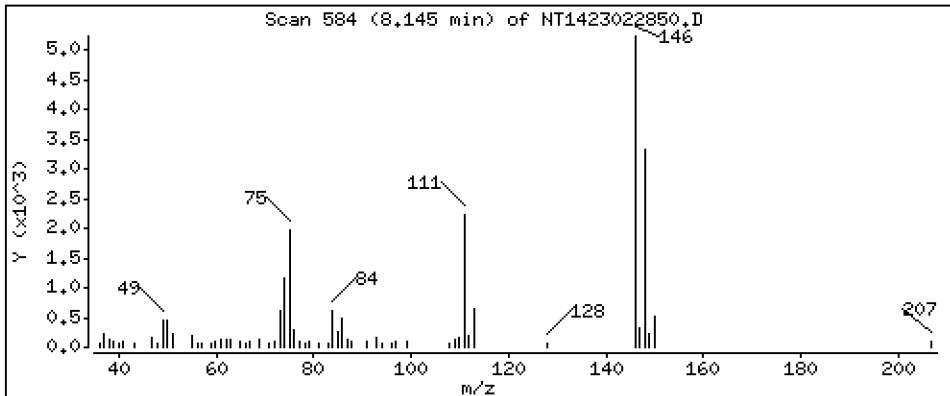
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.2141 ug/mL





Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

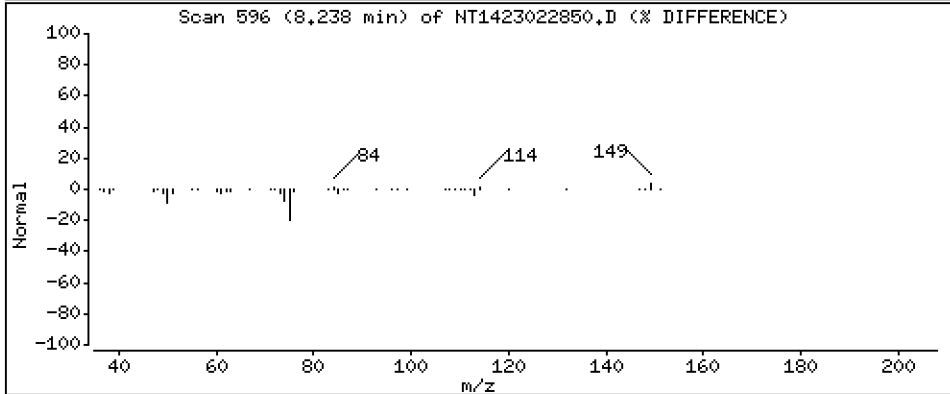
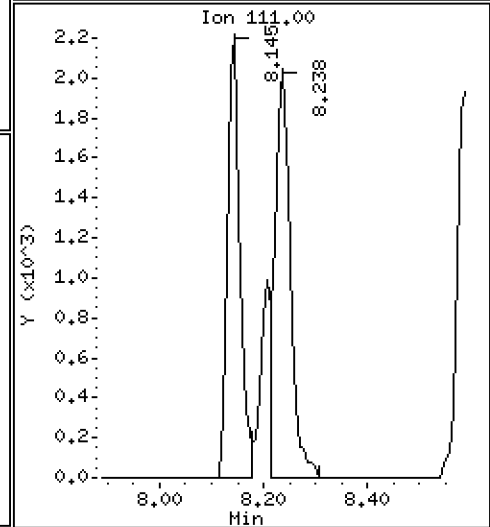
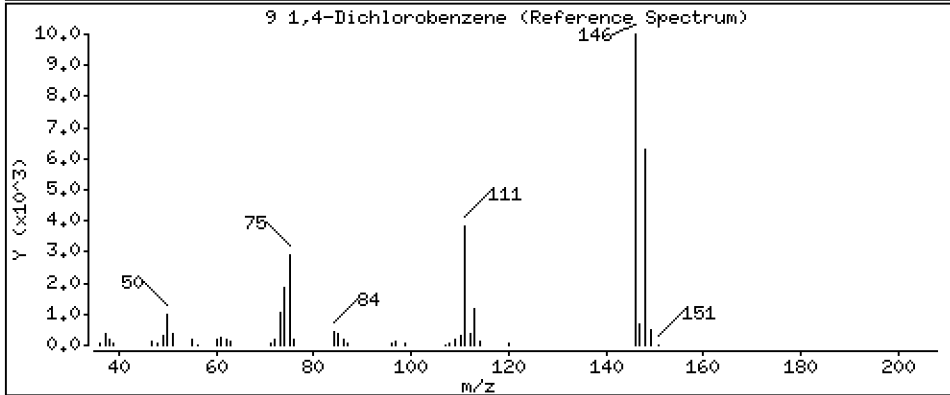
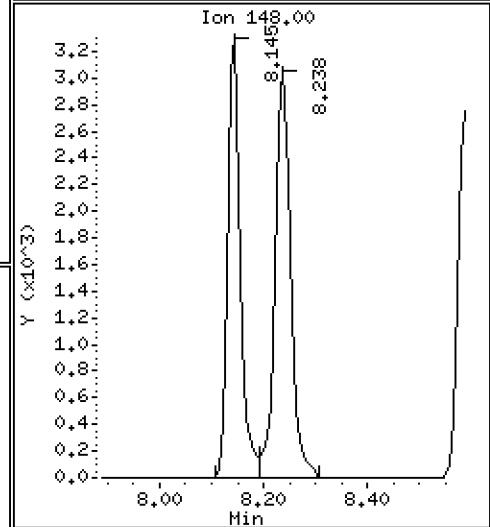
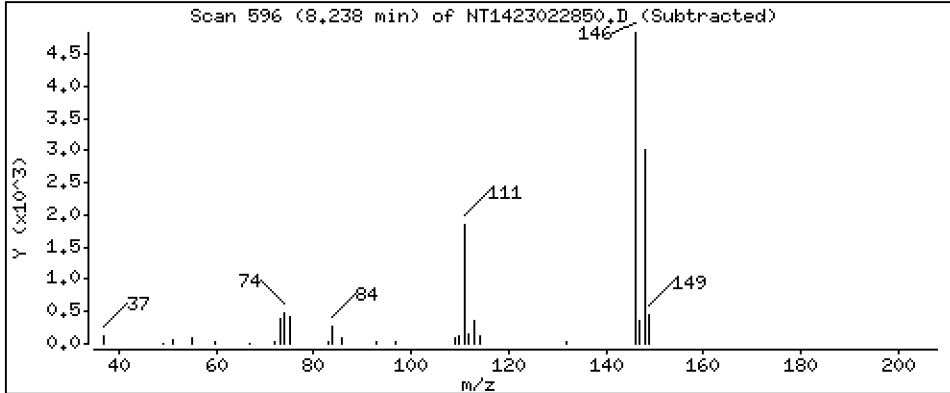
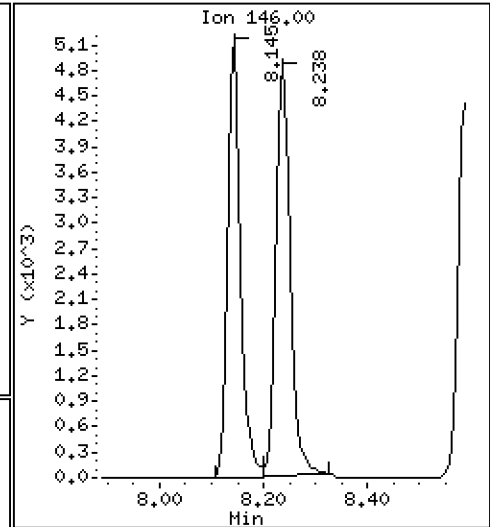
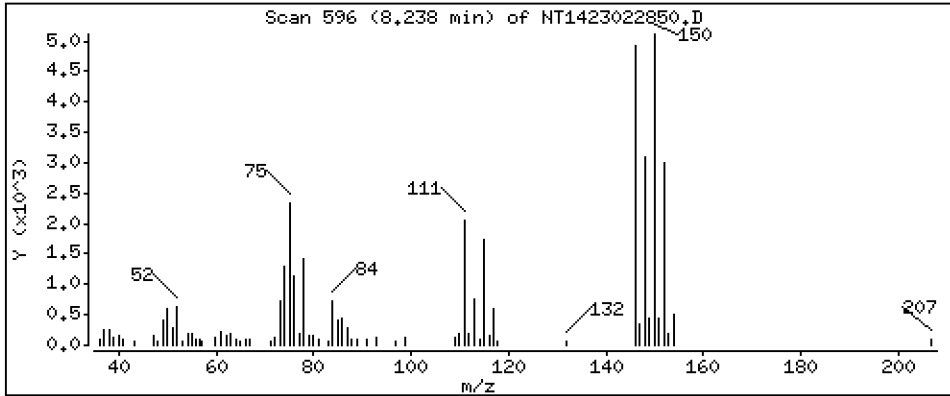
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,2080 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

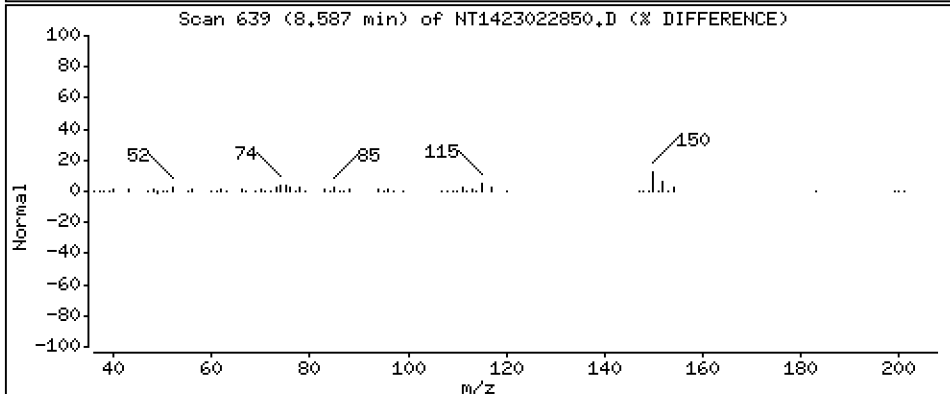
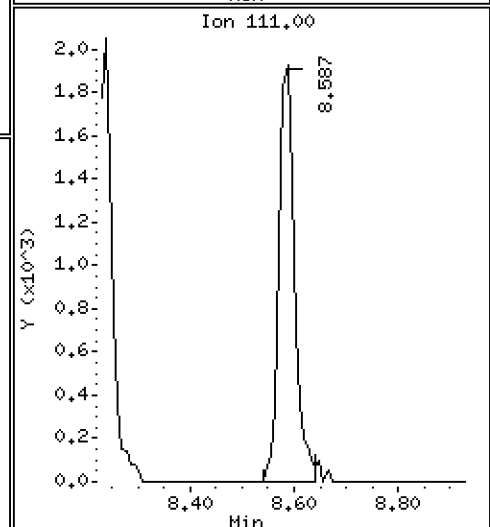
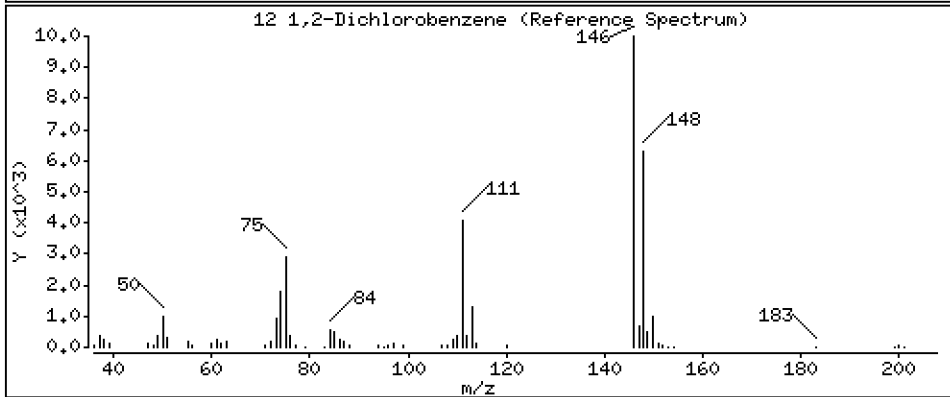
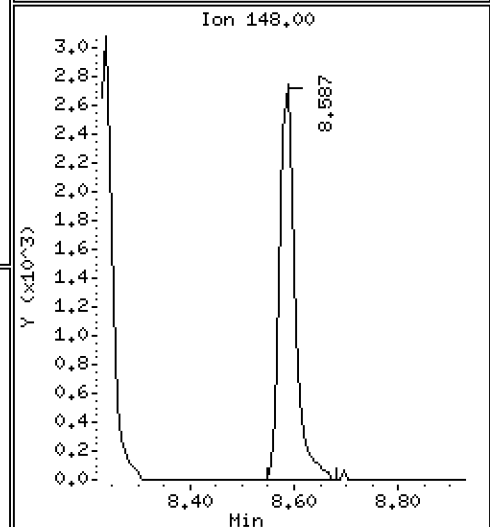
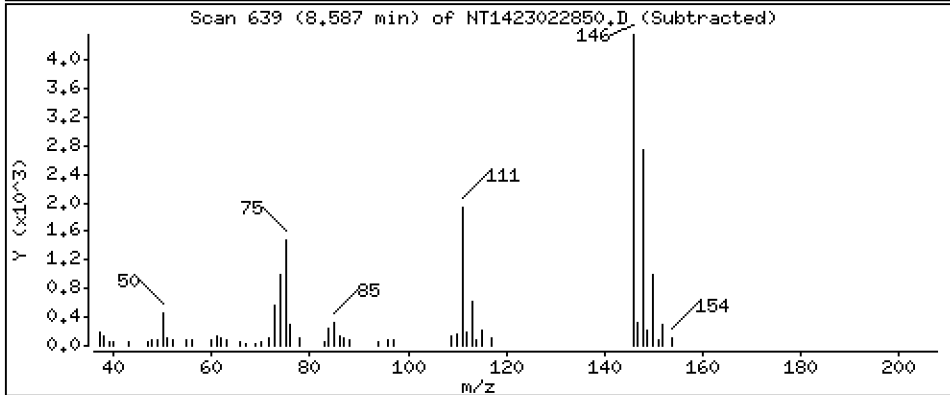
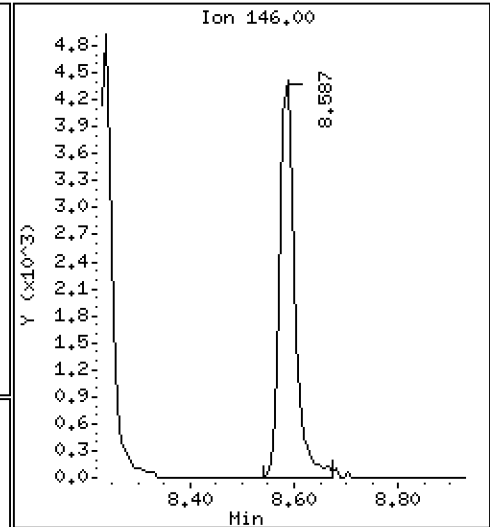
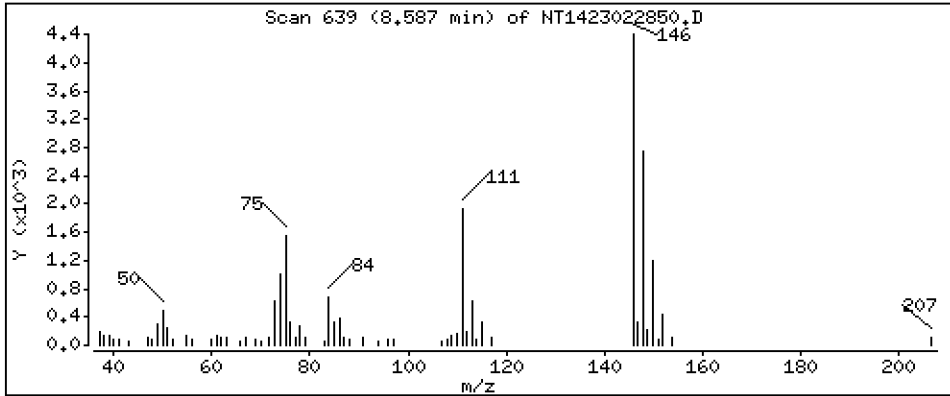
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2109 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

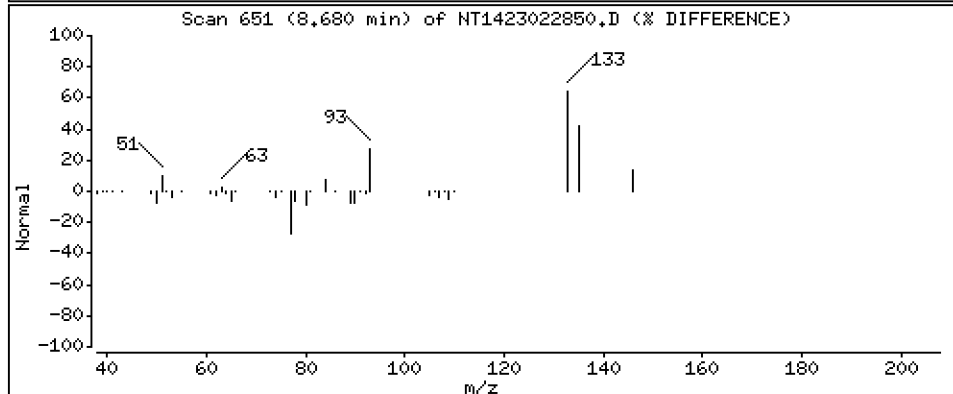
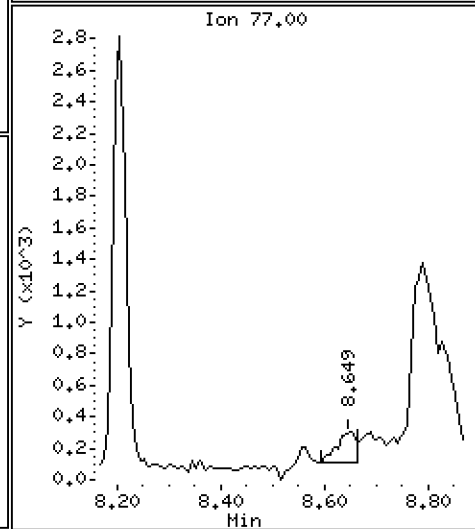
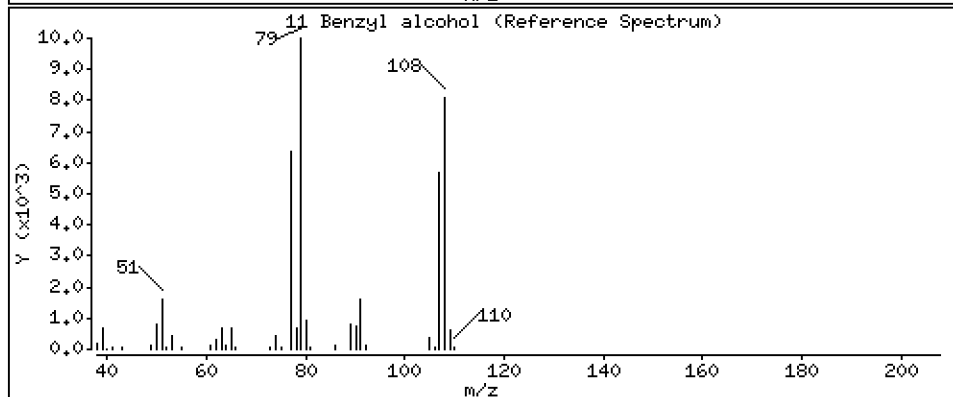
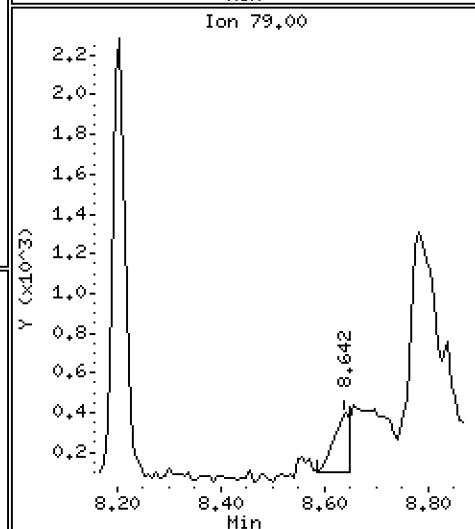
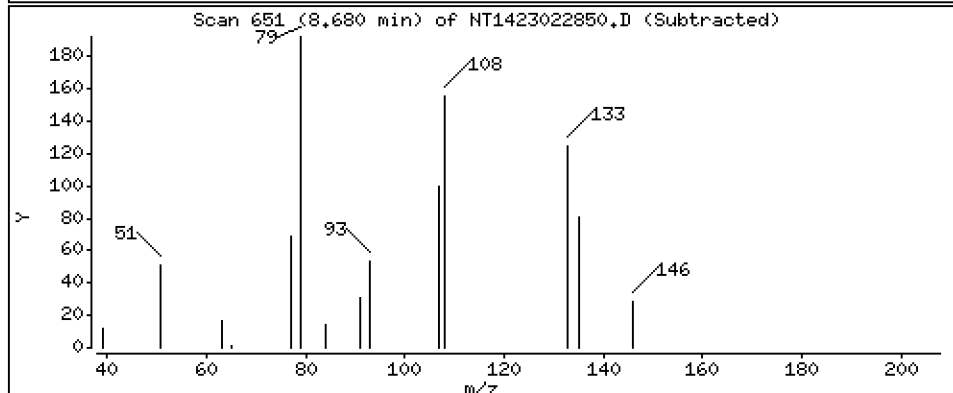
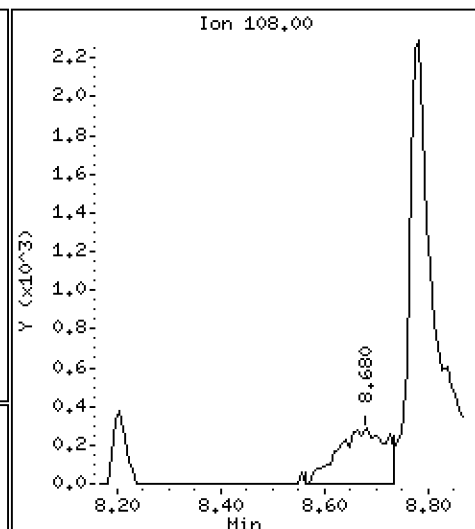
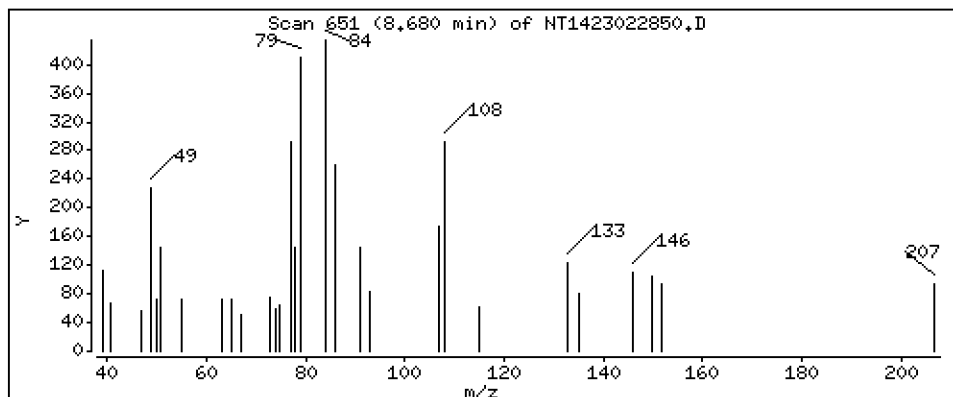
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 0,08203 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

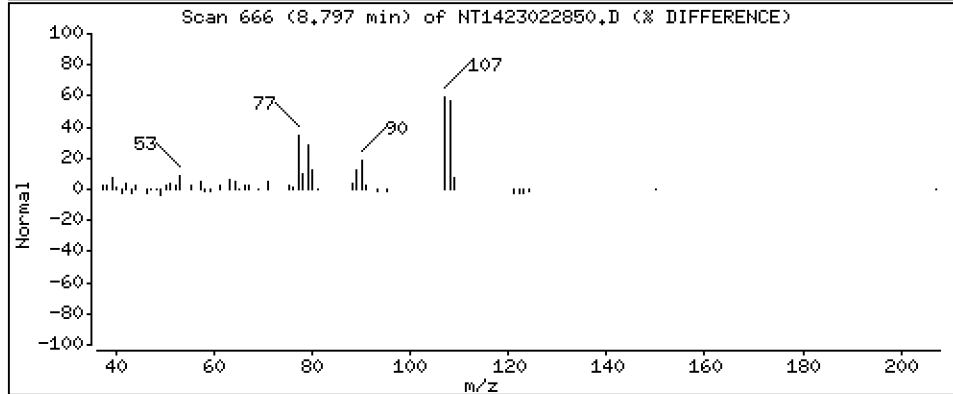
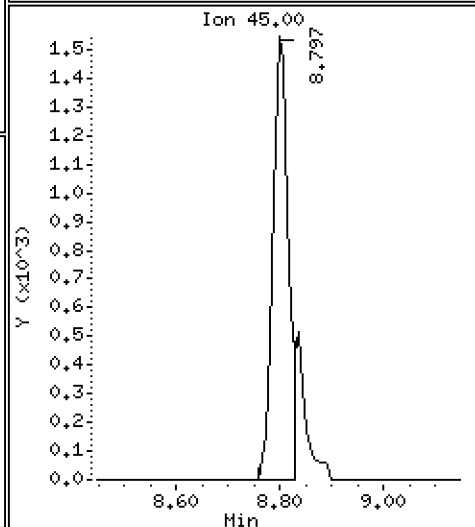
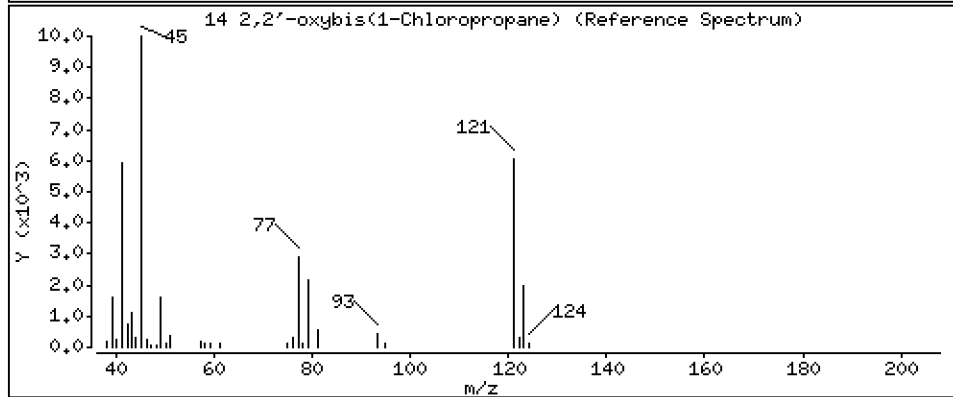
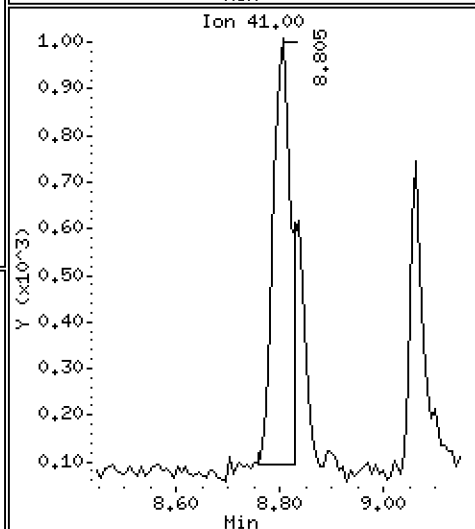
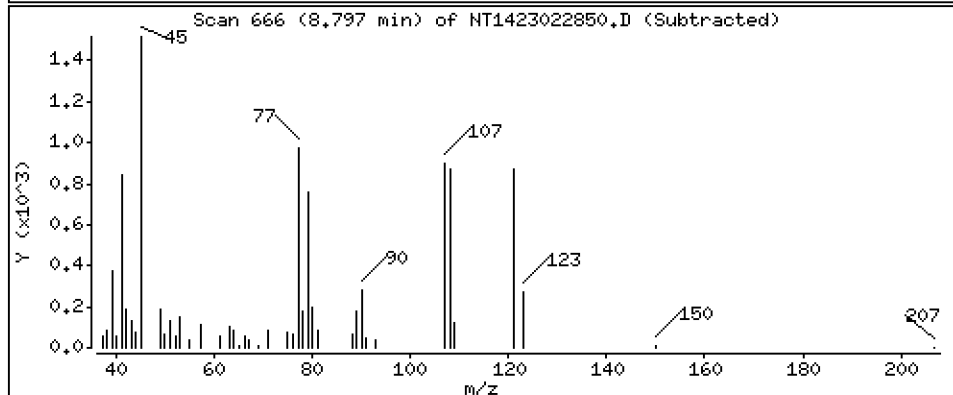
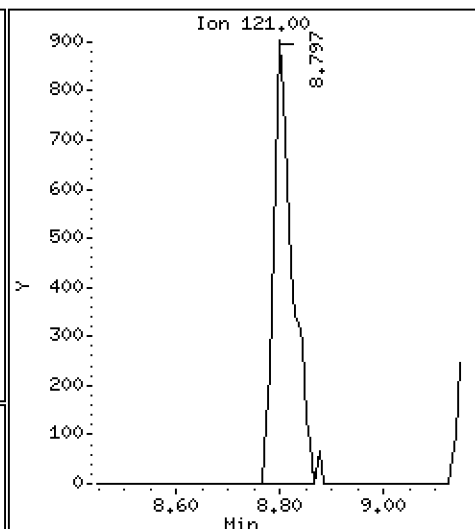
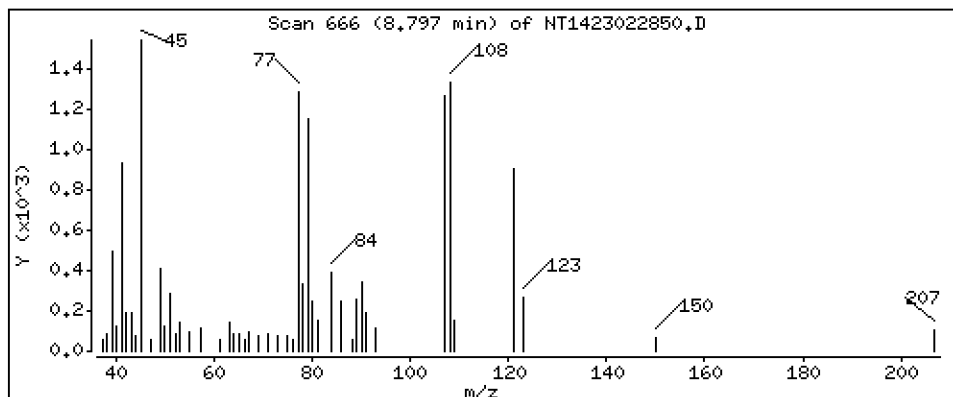
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 0.2023 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

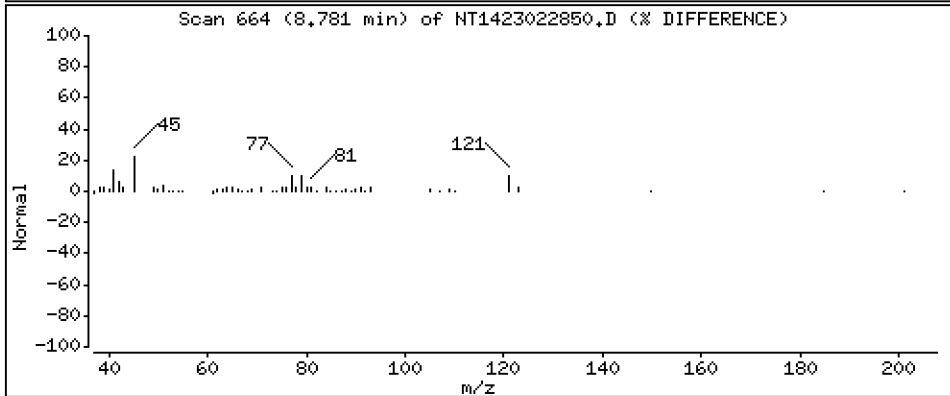
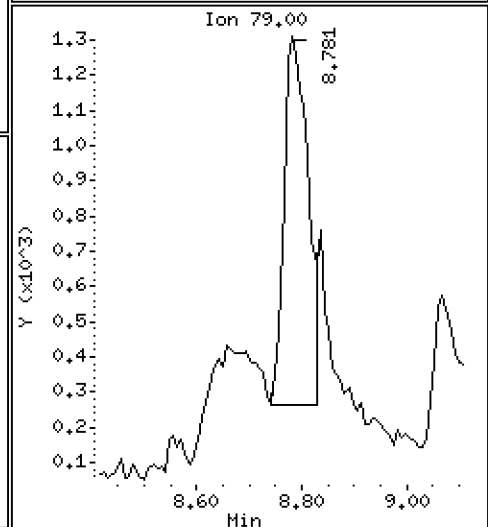
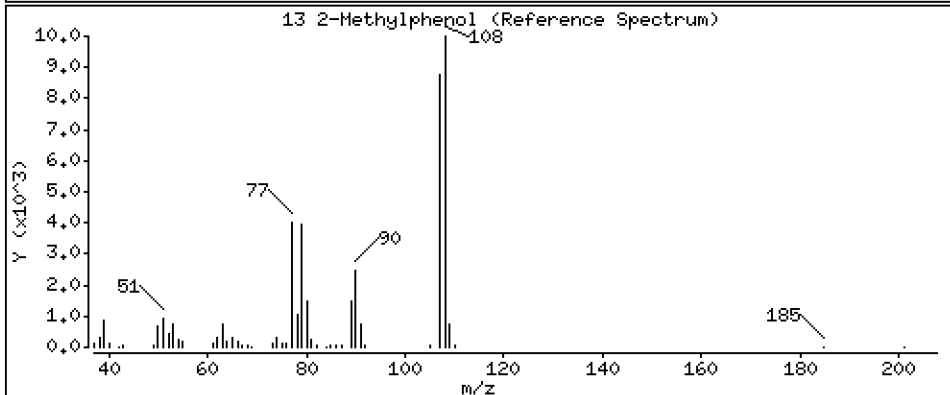
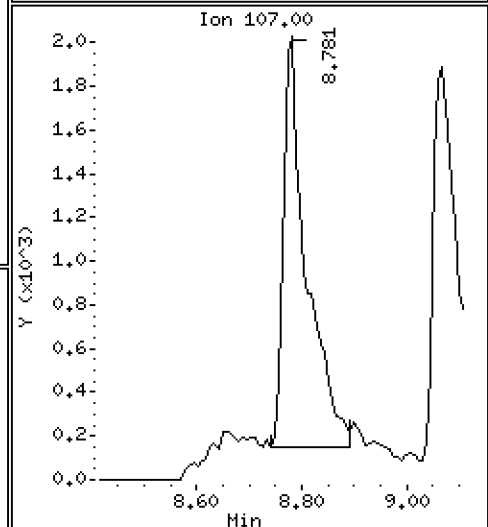
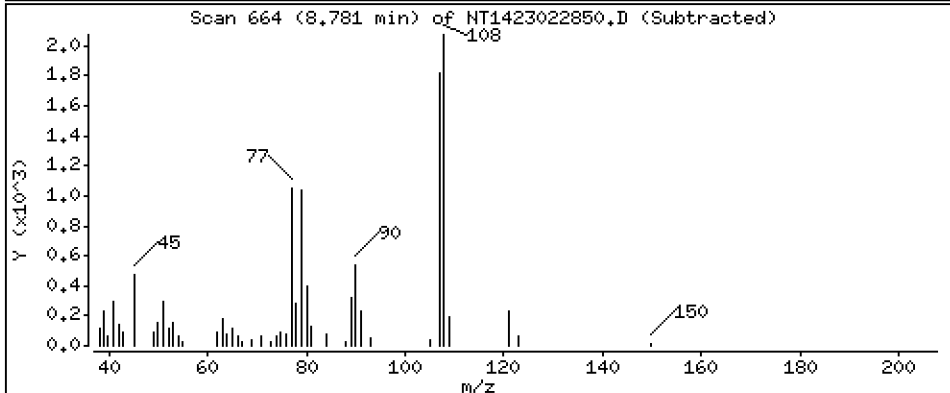
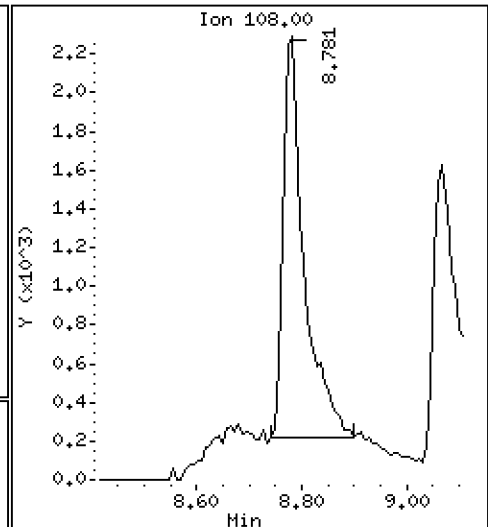
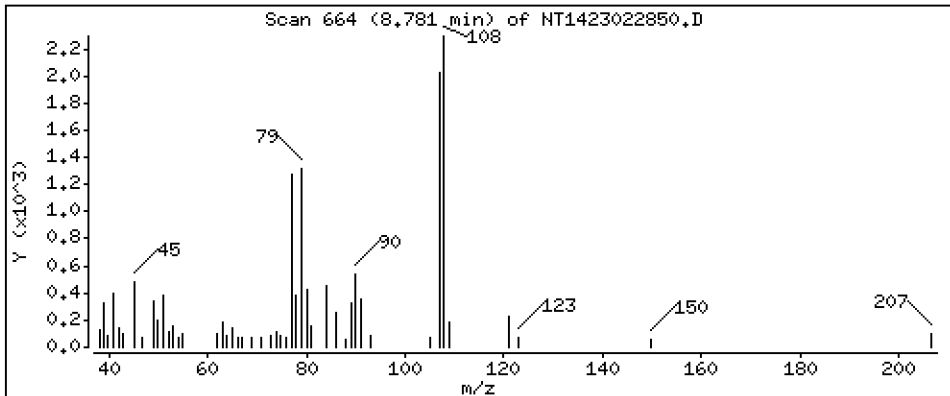
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.1738 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

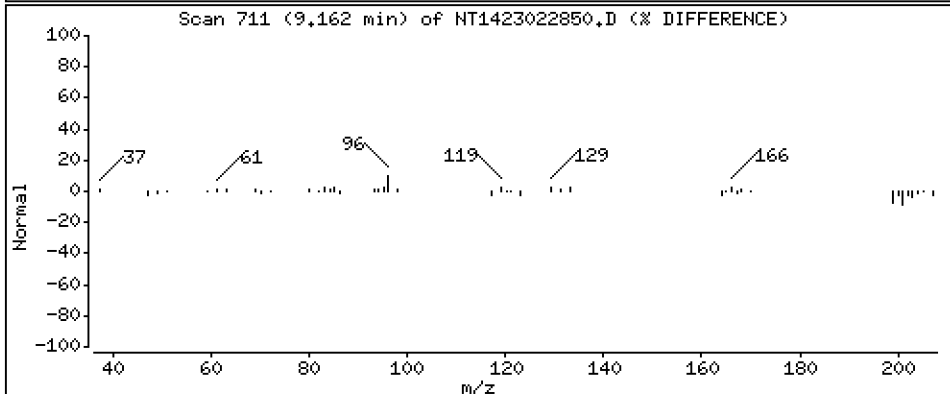
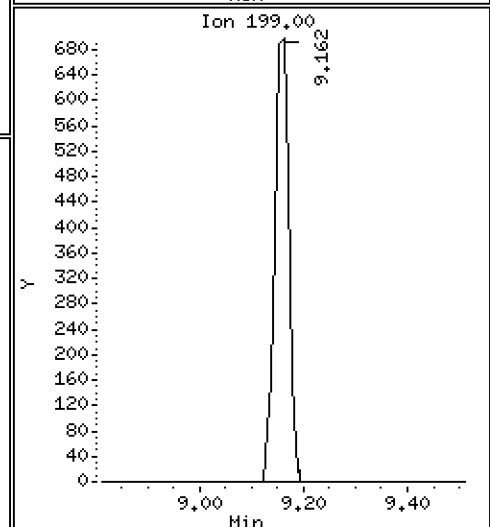
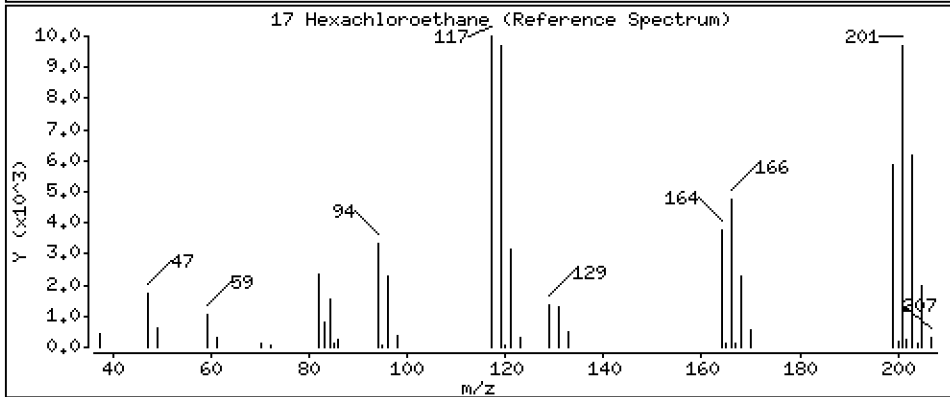
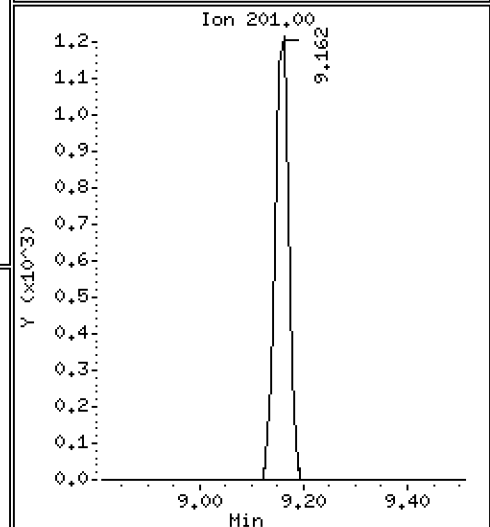
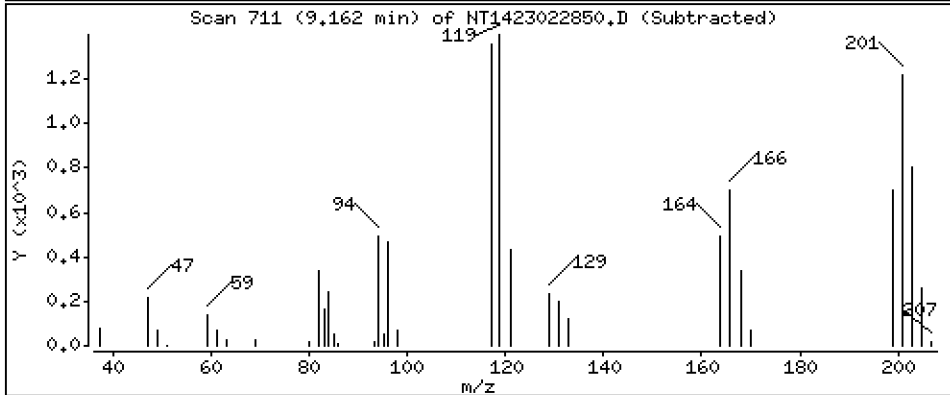
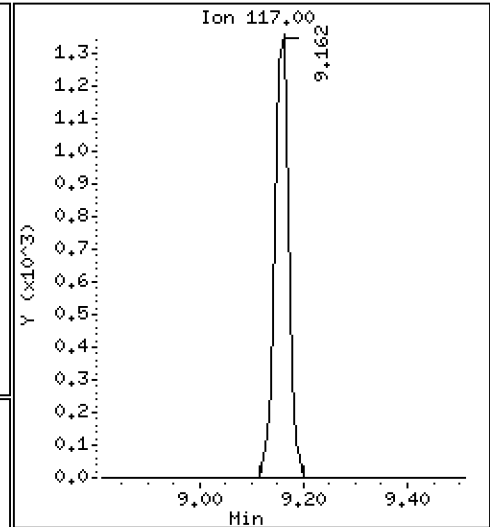
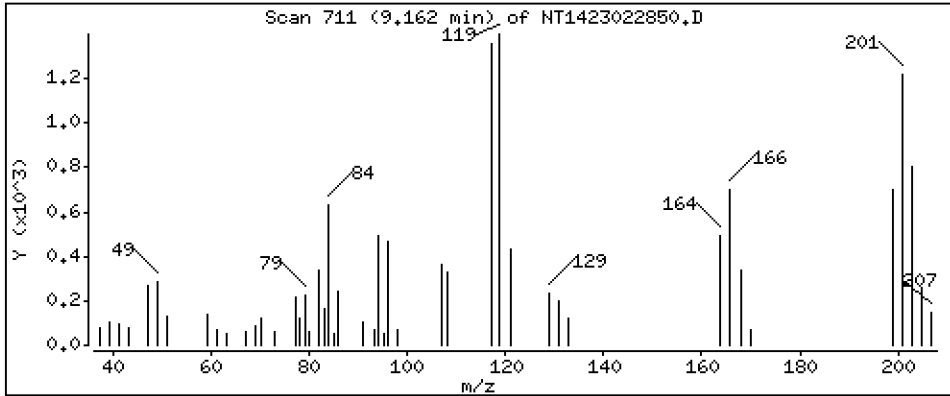
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 0.1509 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

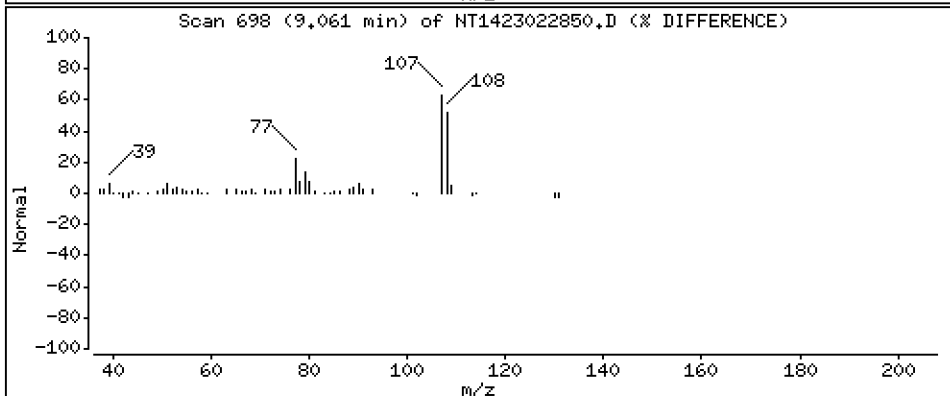
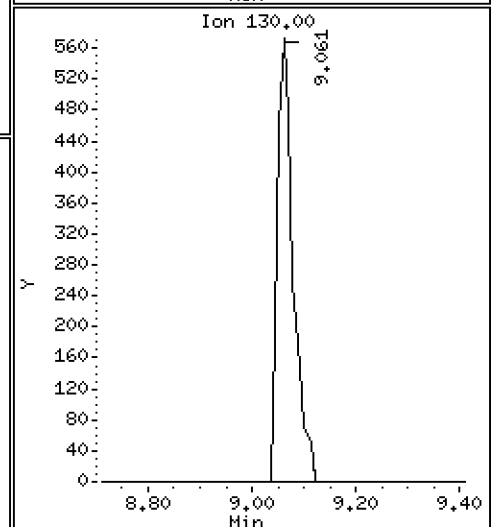
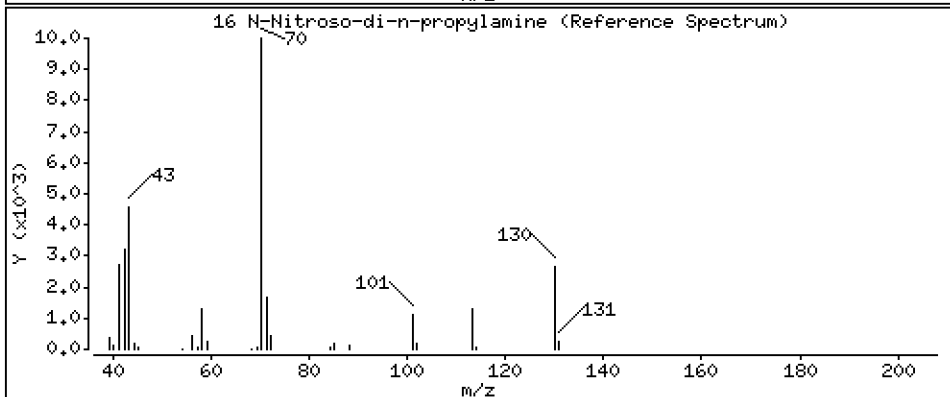
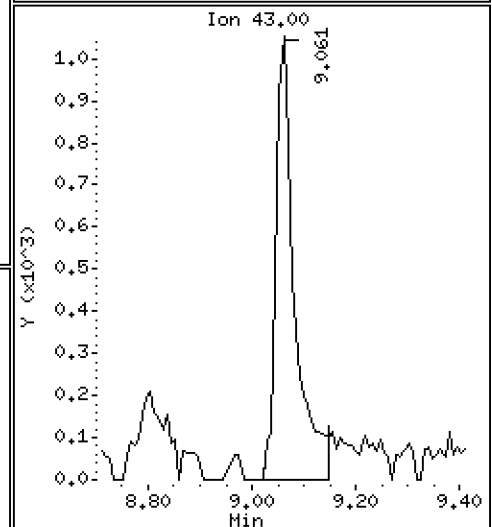
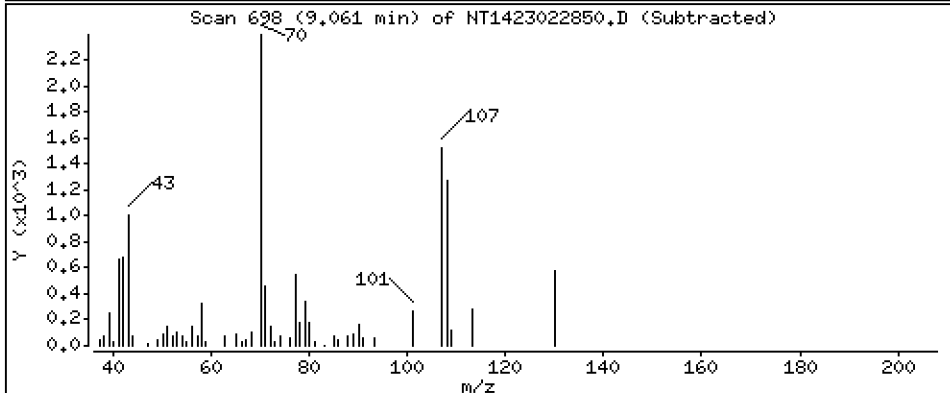
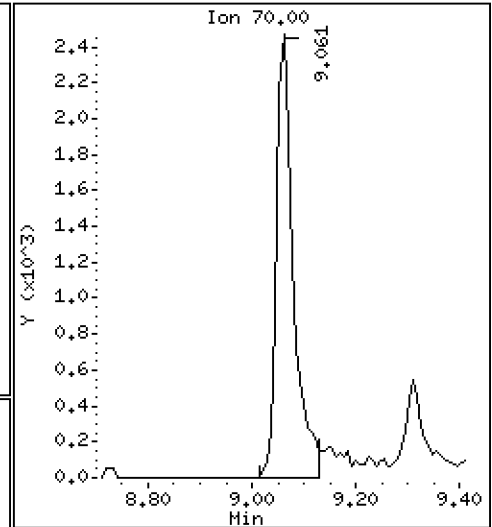
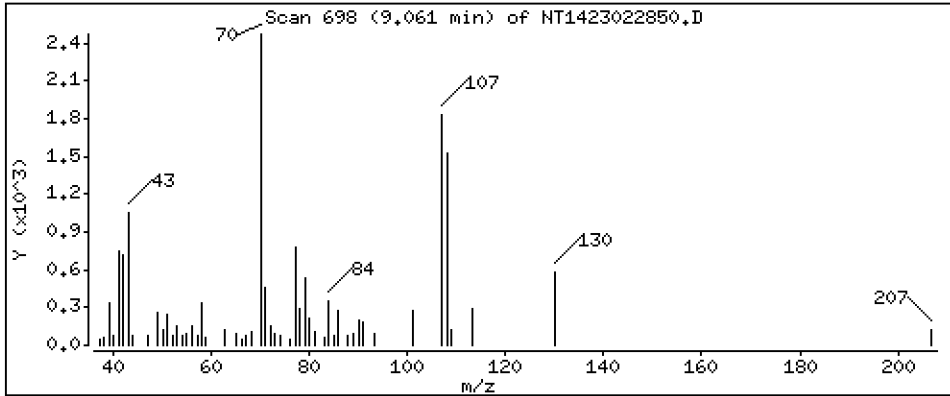
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 0.2121 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

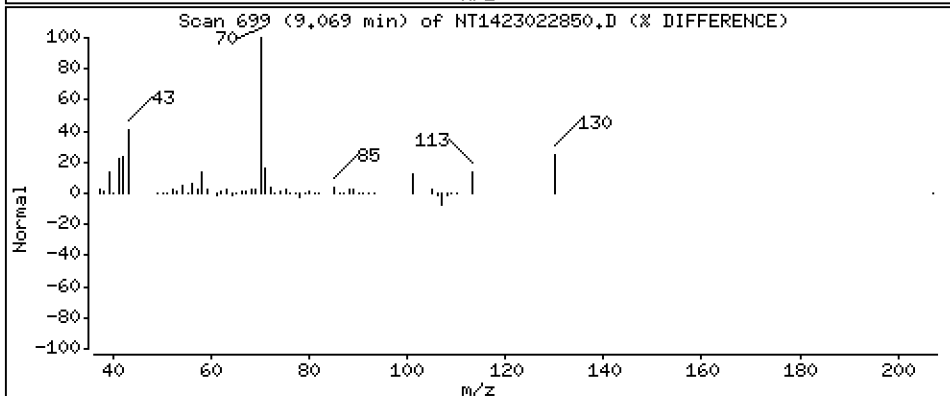
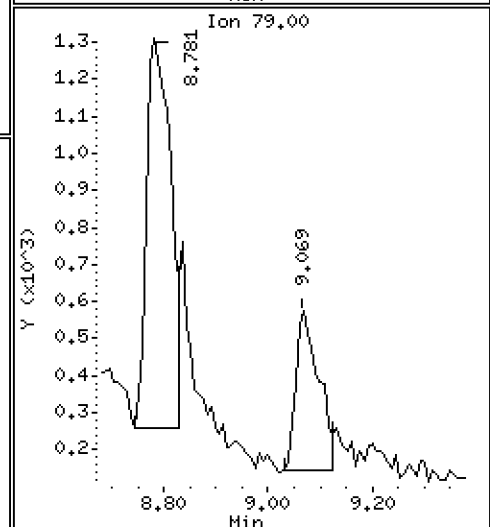
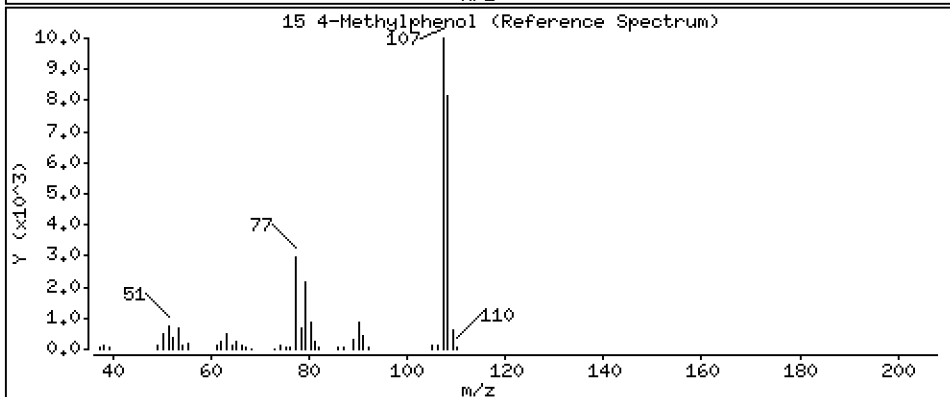
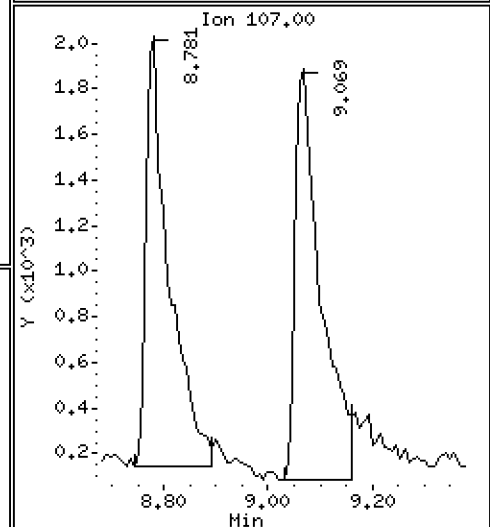
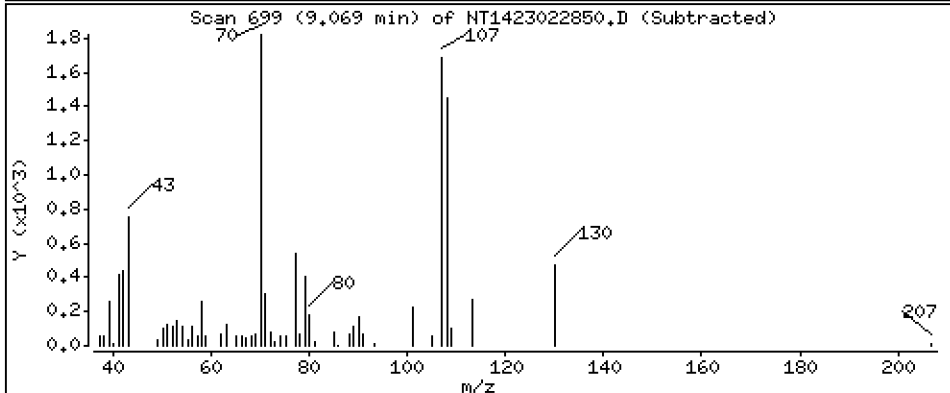
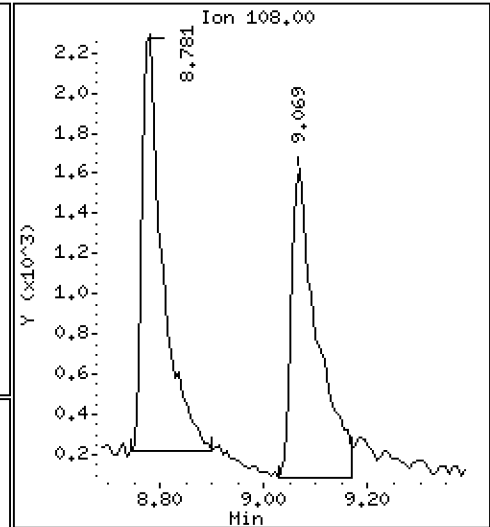
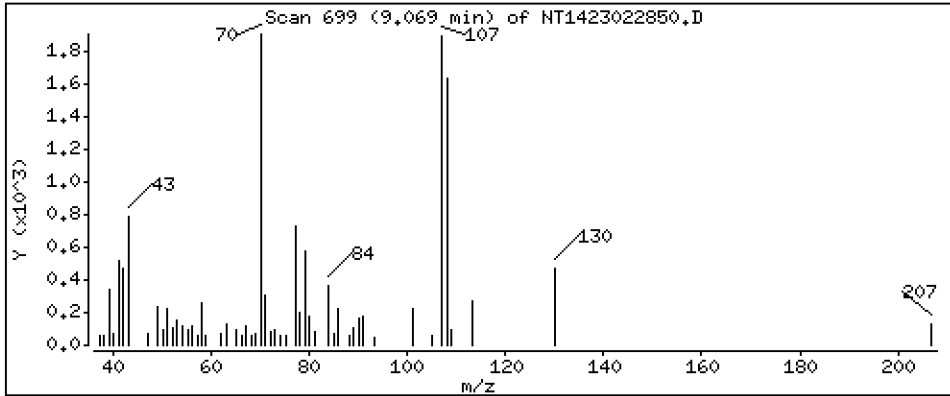
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1399 ug/mL





Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

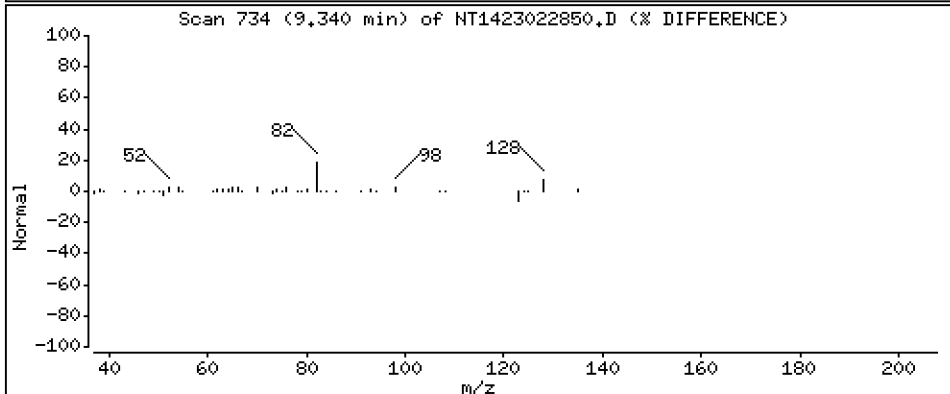
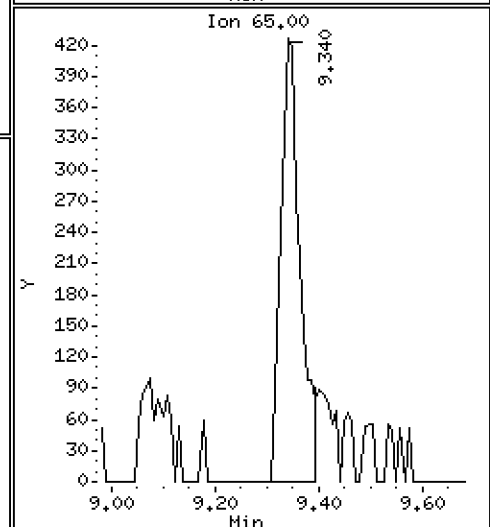
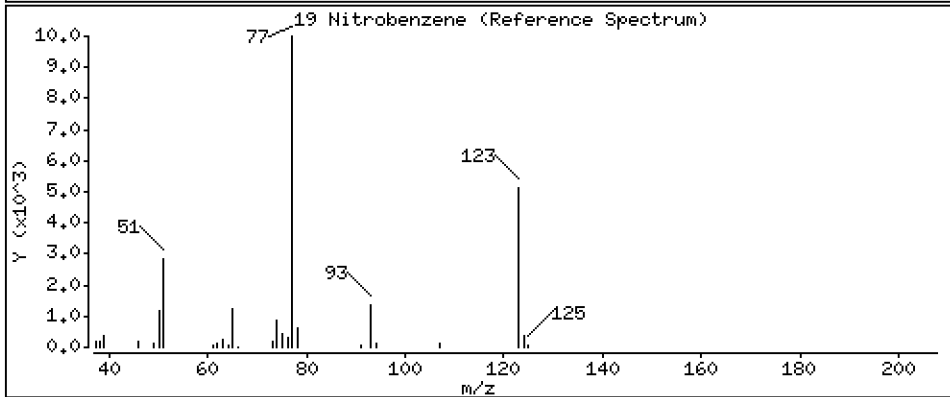
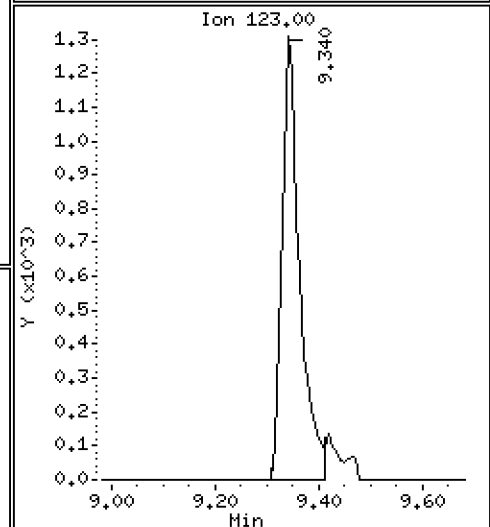
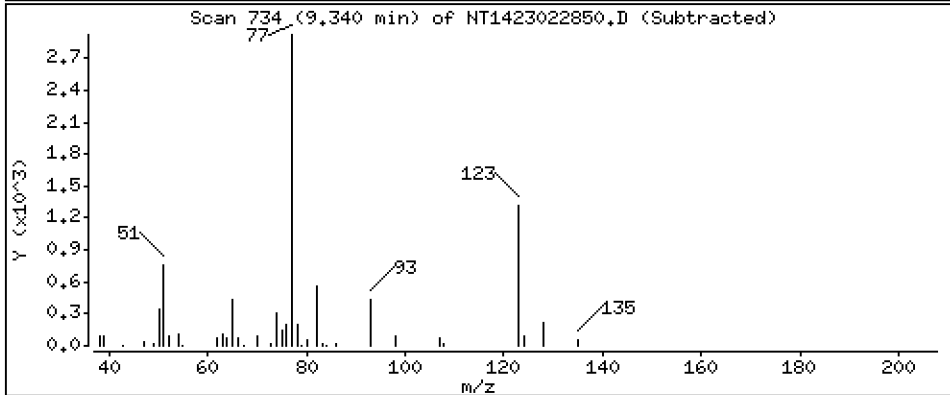
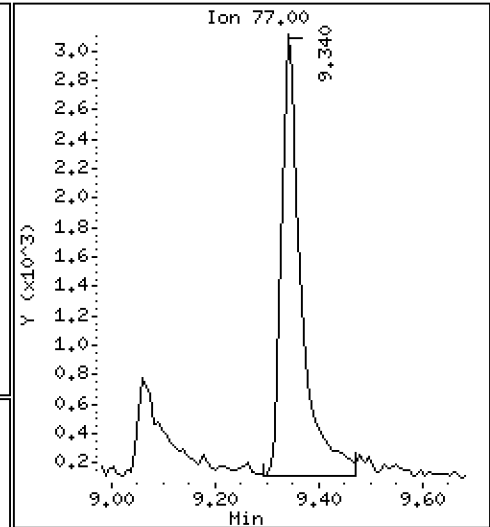
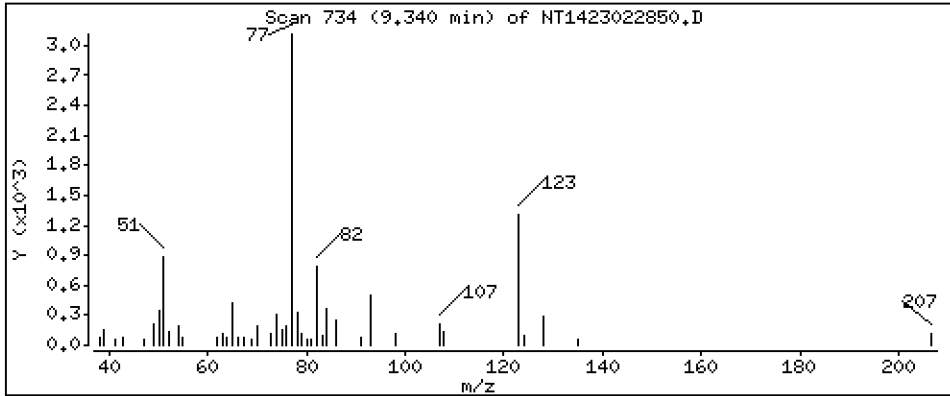
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

19 Nitrobenzene

Concentration: 0.2048 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

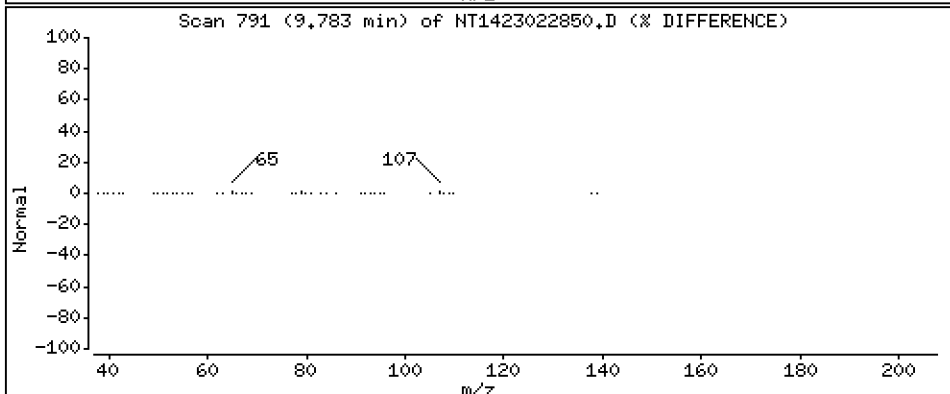
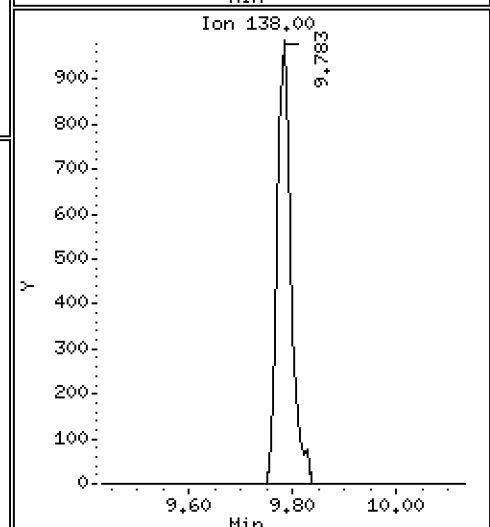
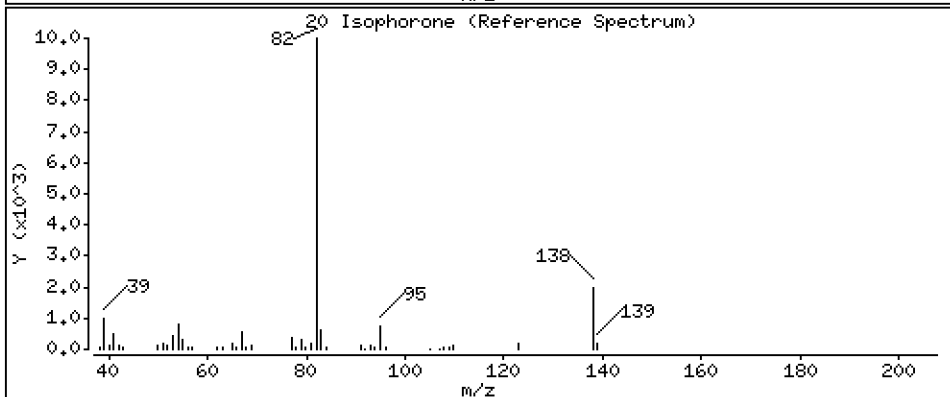
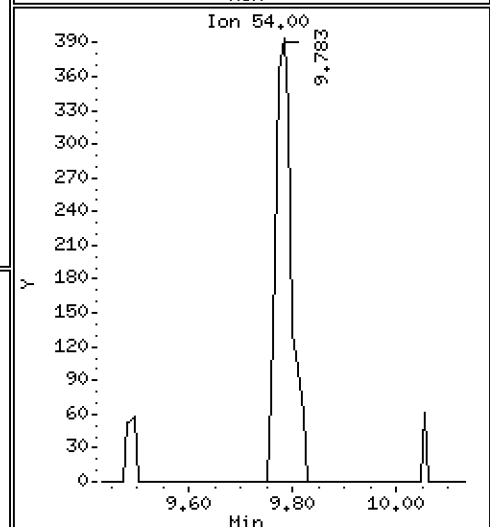
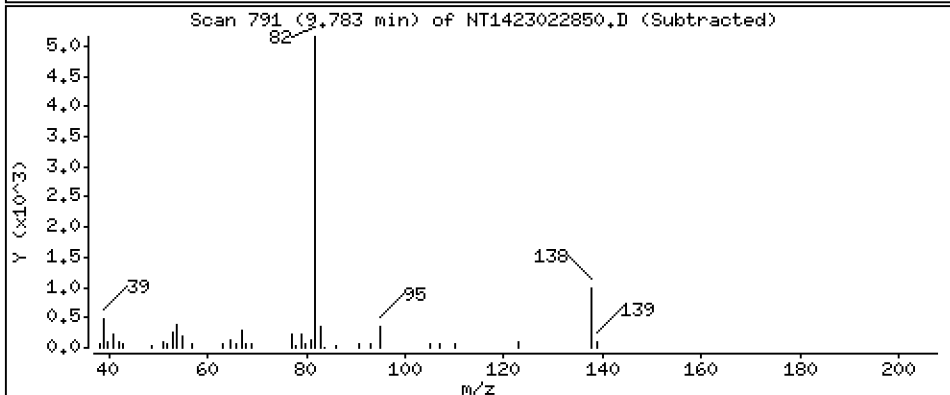
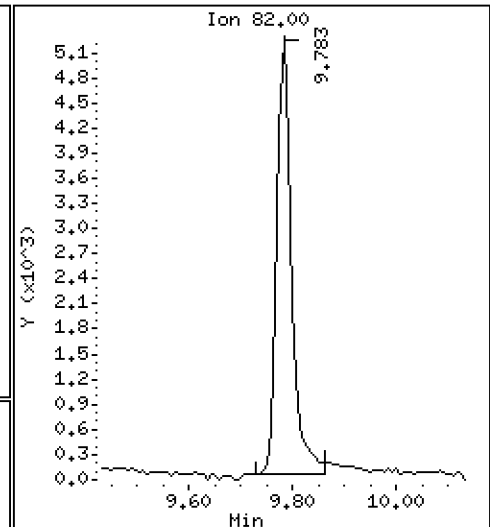
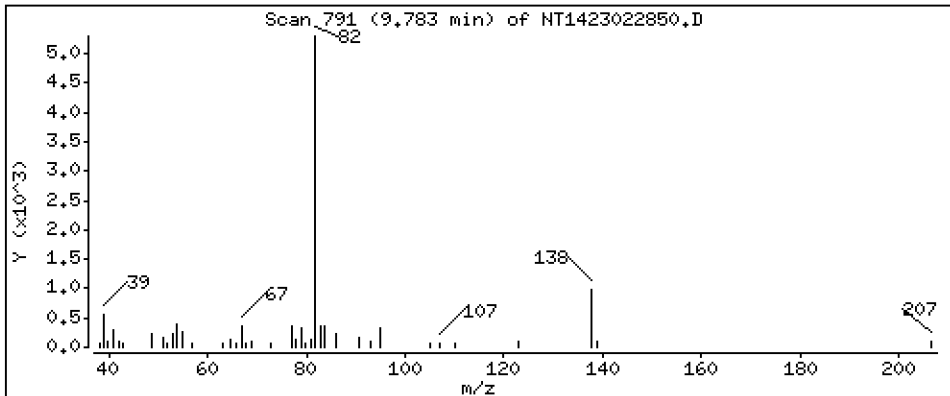
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 0,1640 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

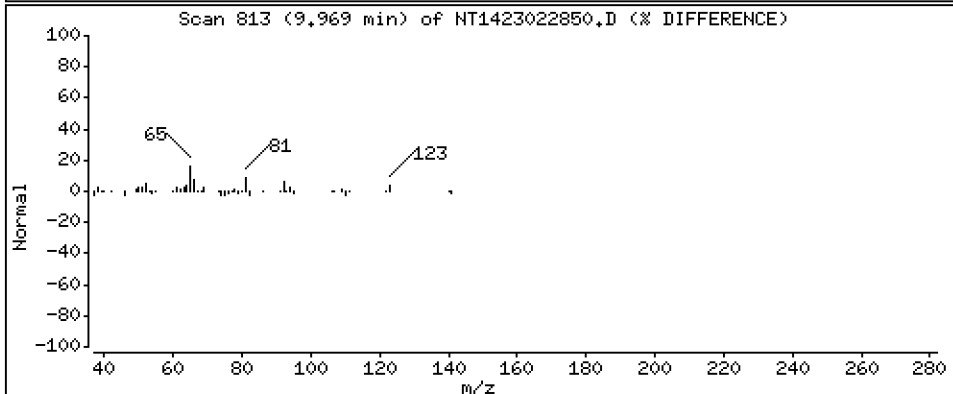
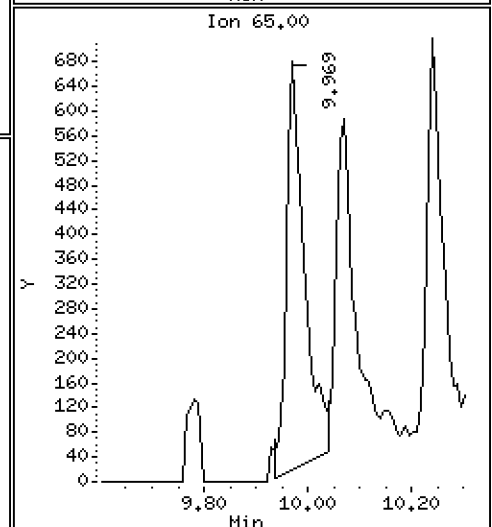
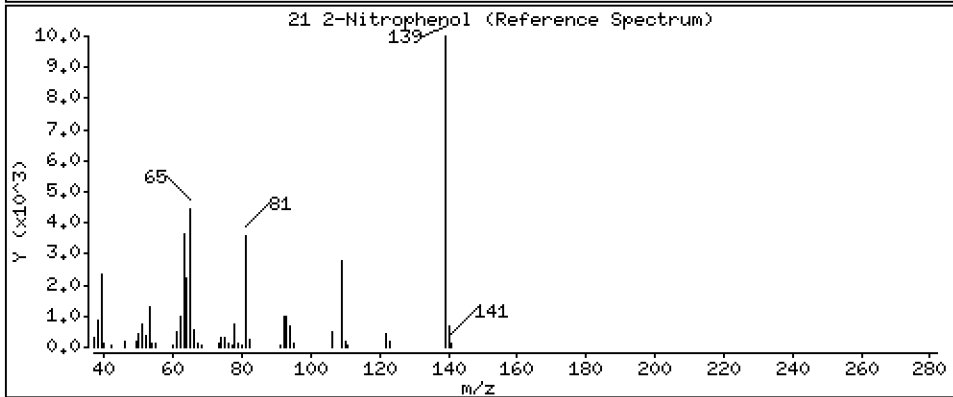
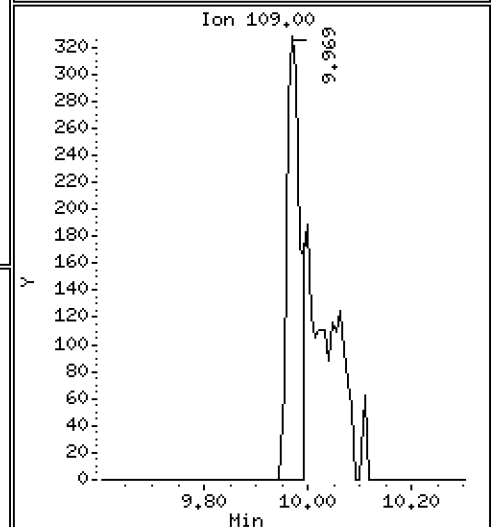
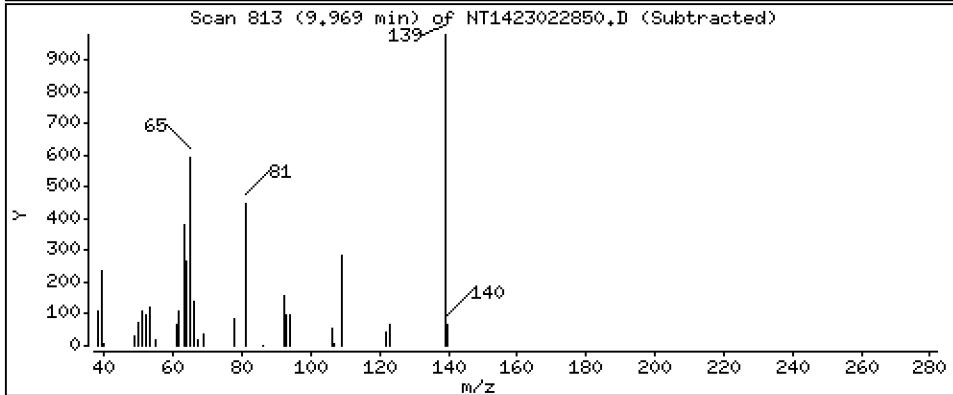
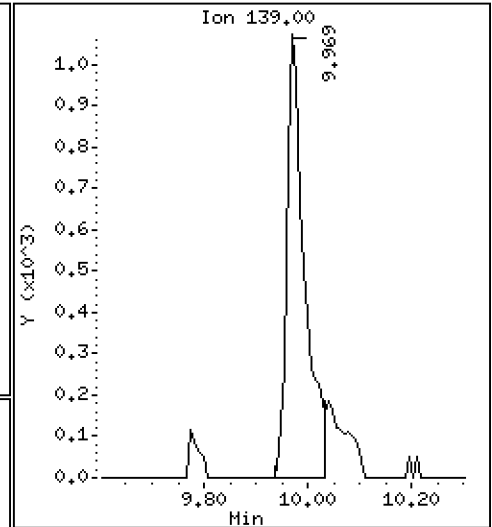
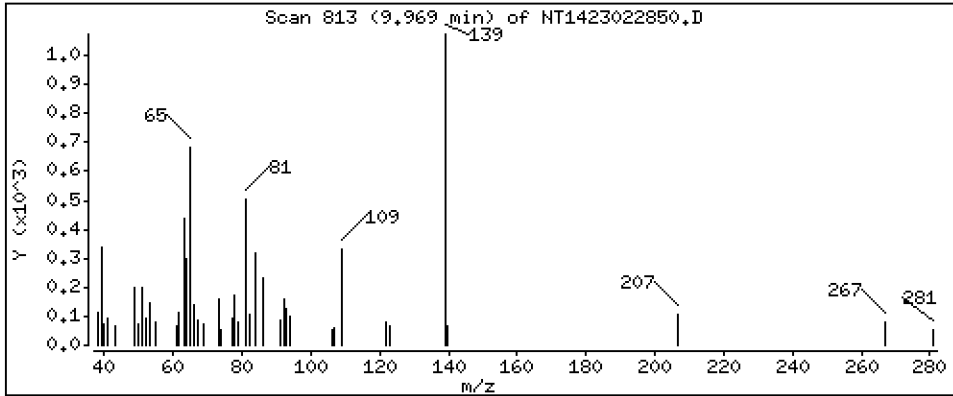
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,1308 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

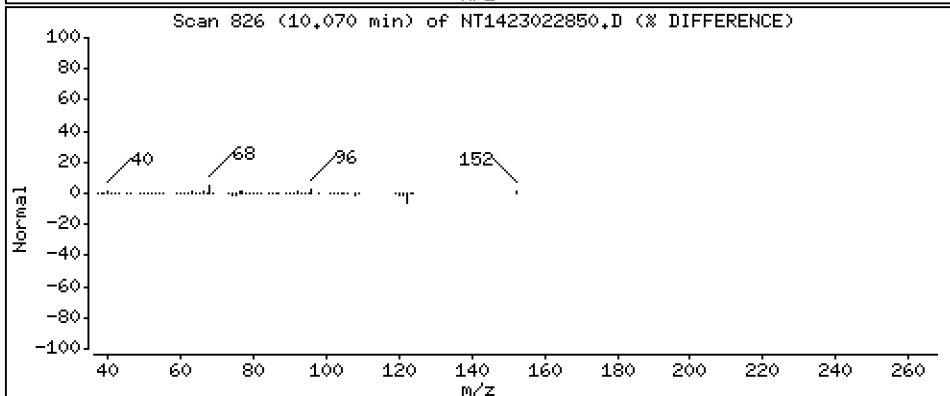
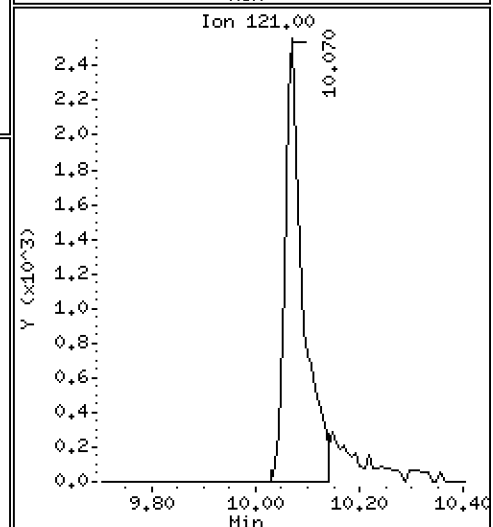
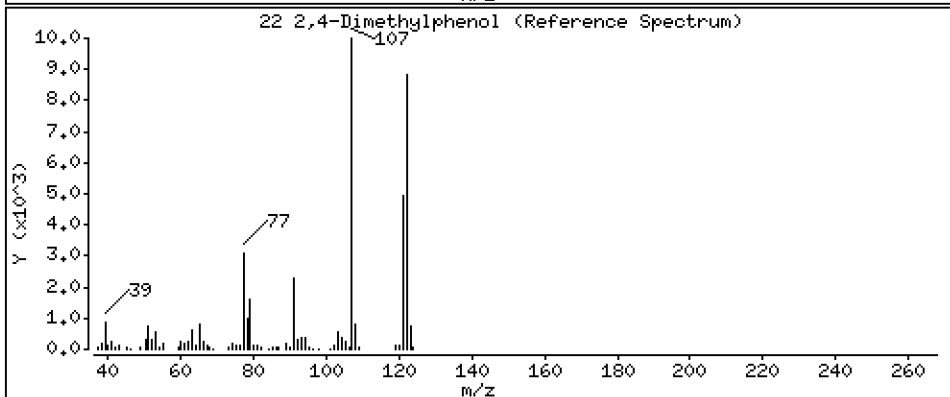
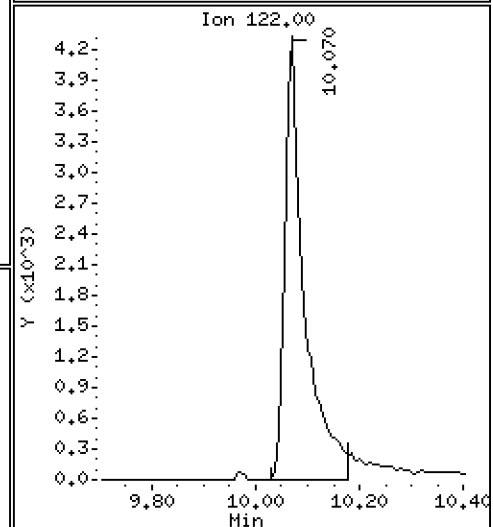
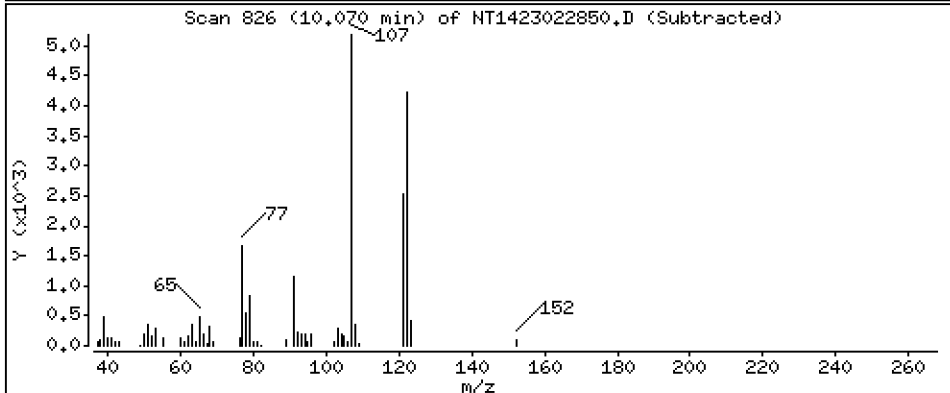
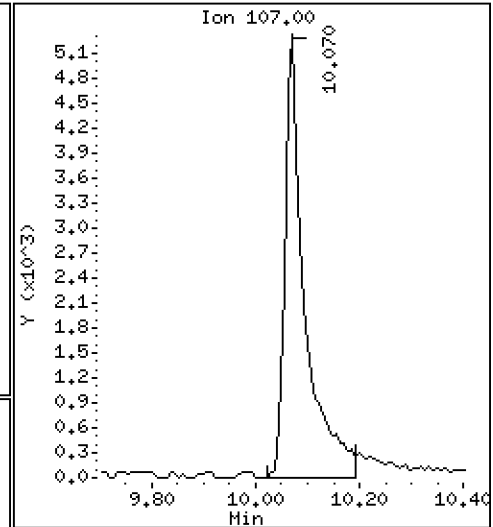
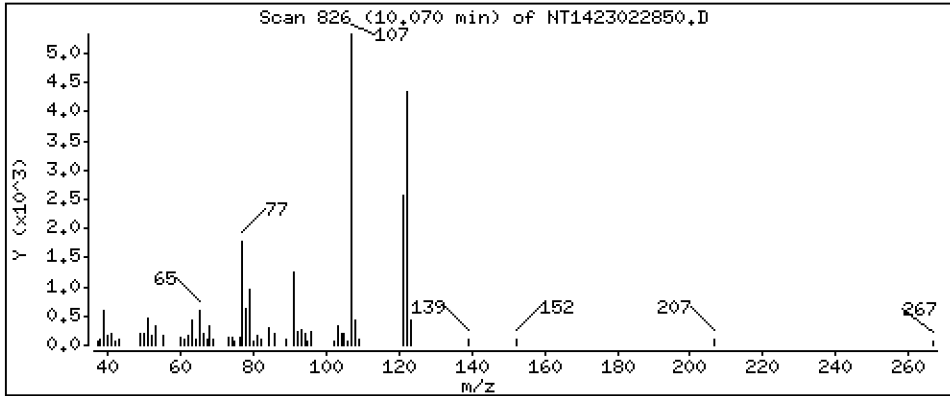
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,4067 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

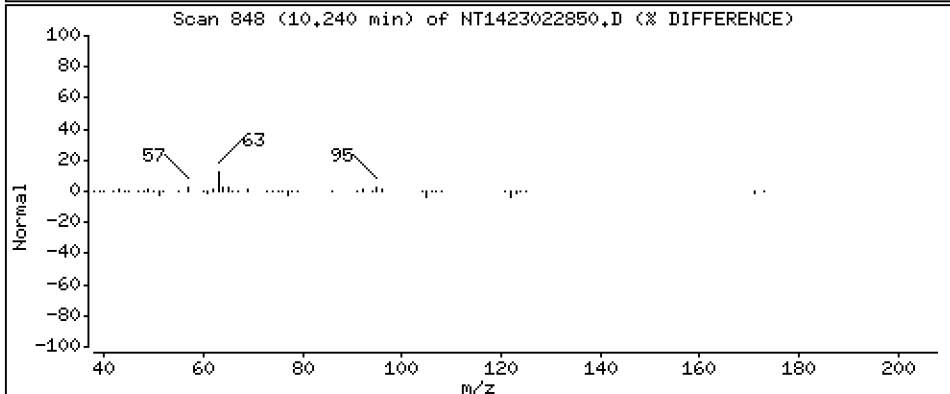
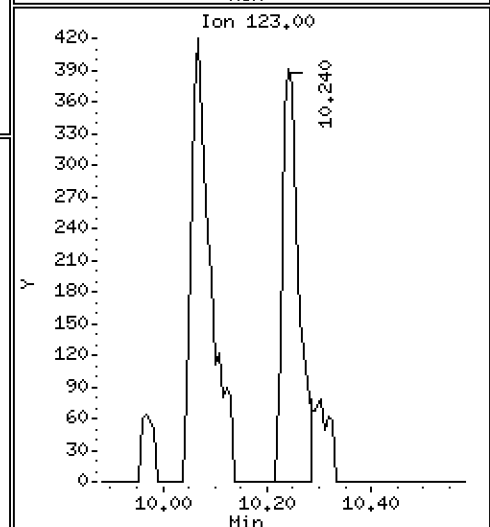
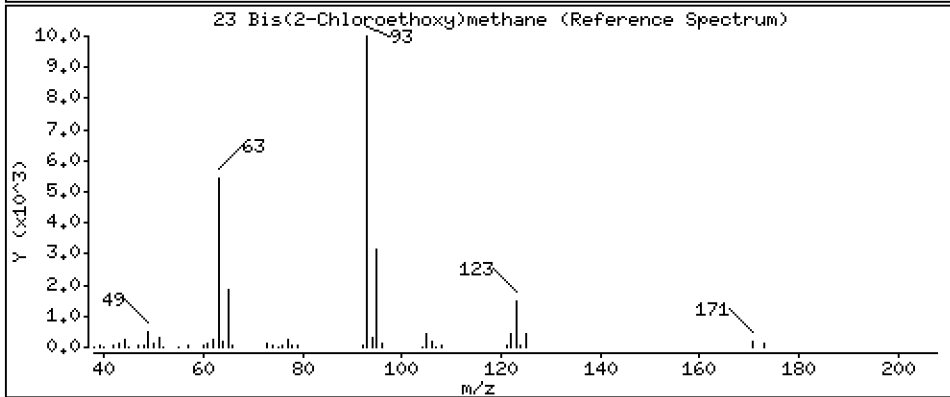
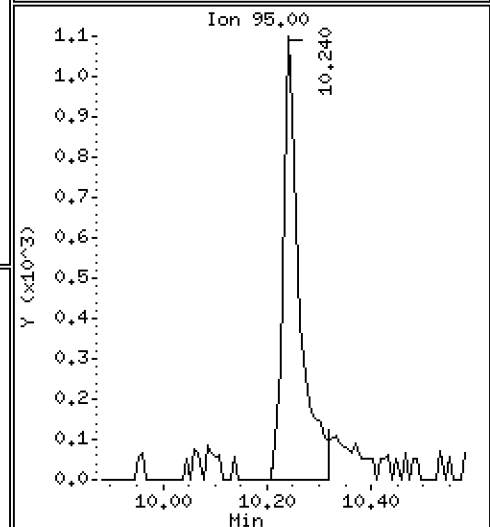
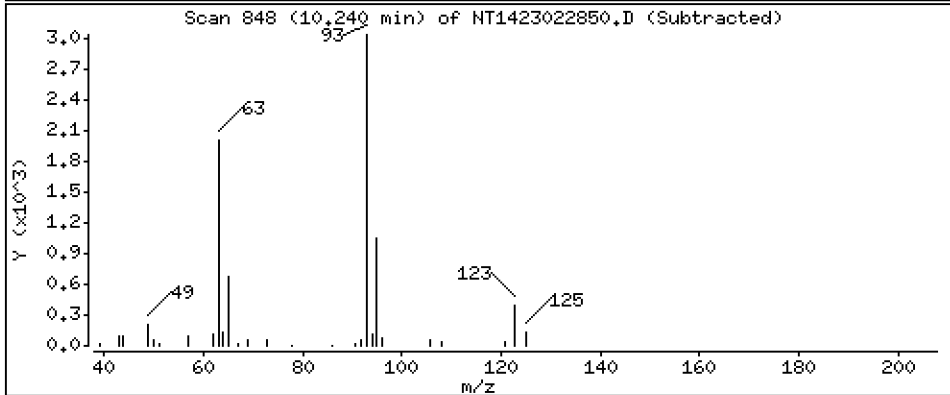
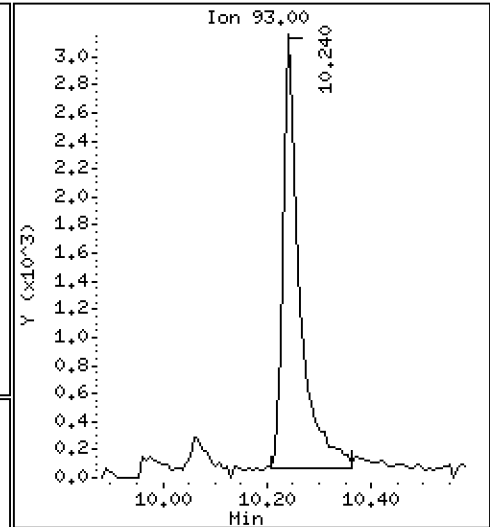
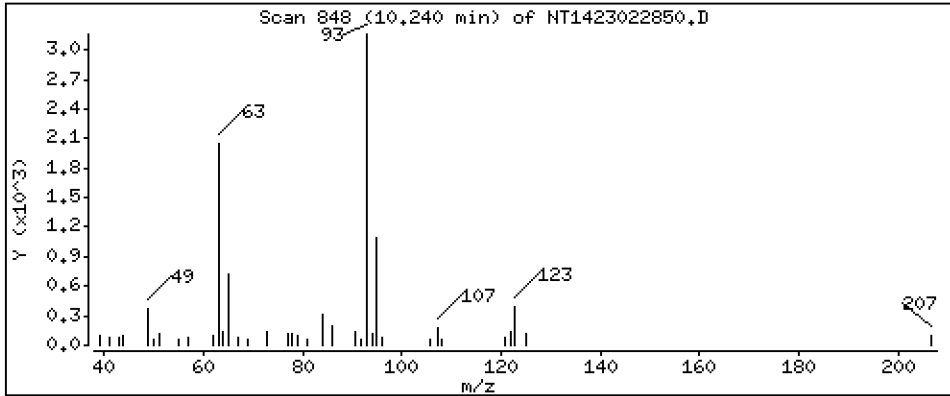
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,1817 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

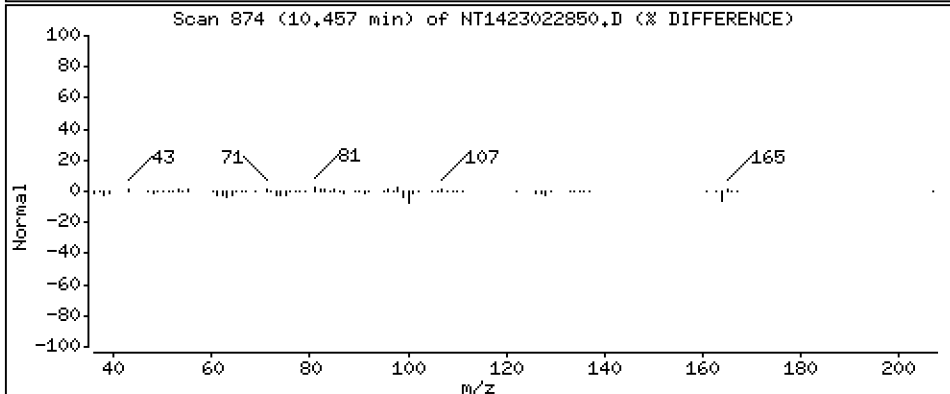
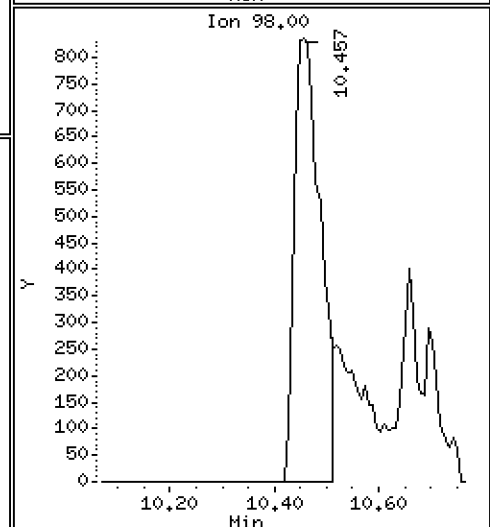
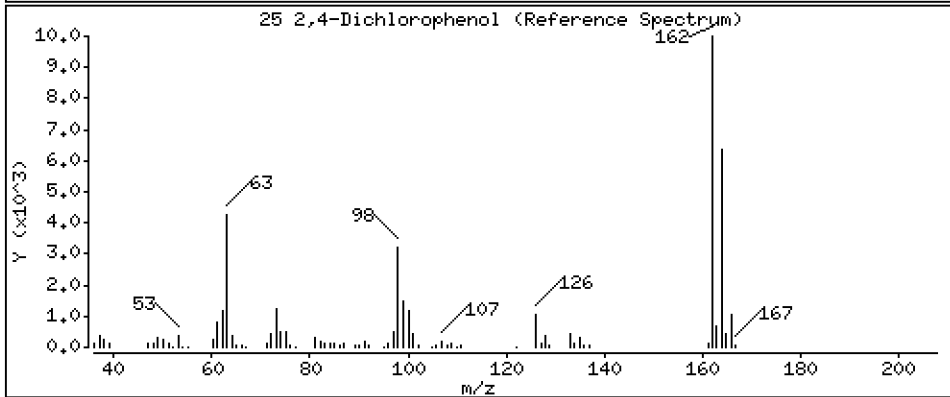
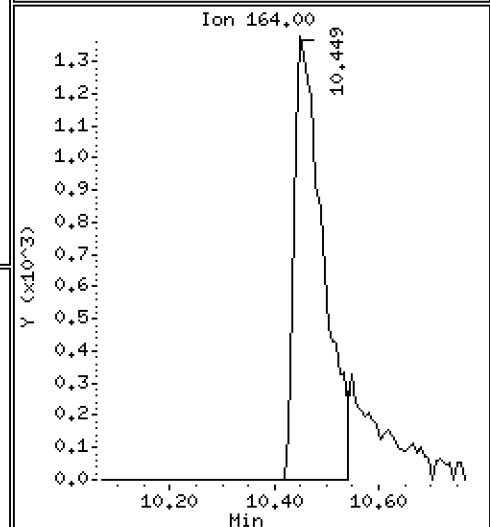
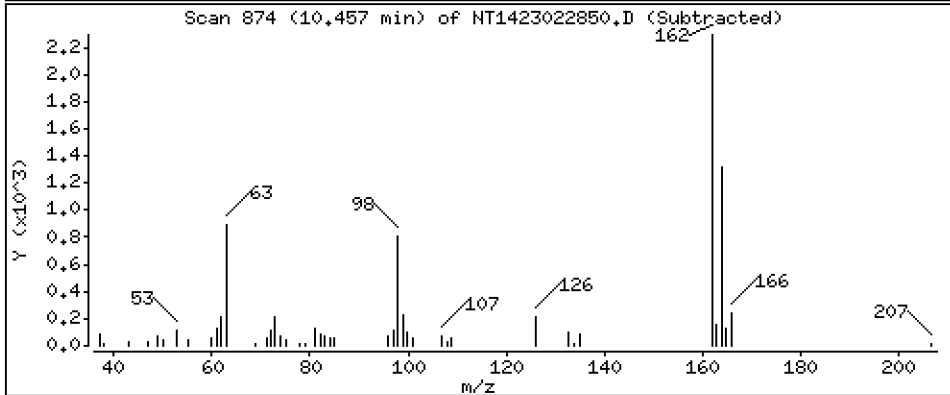
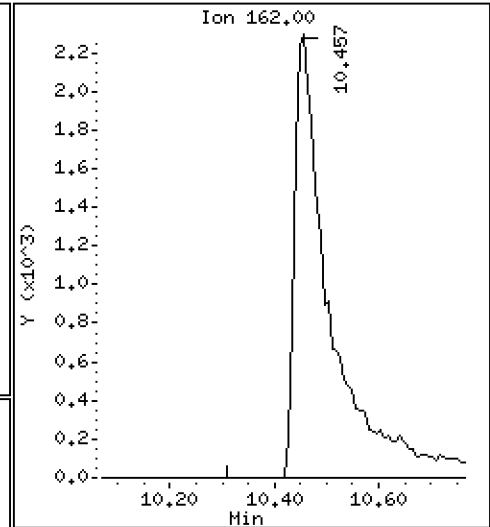
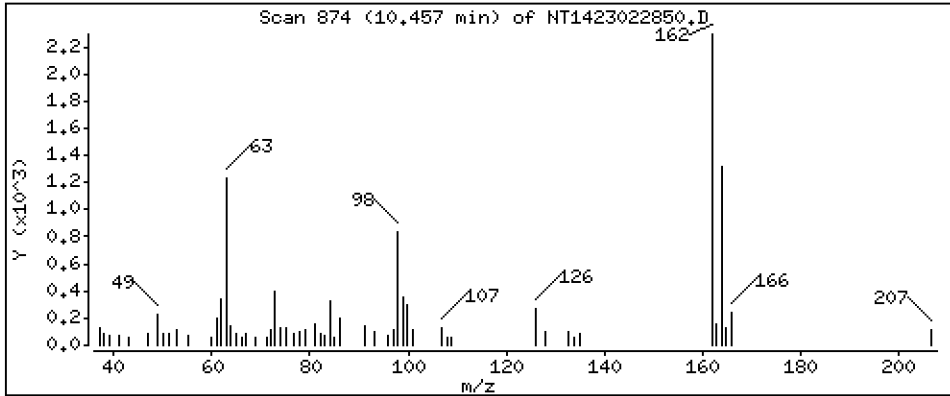
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,3293 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

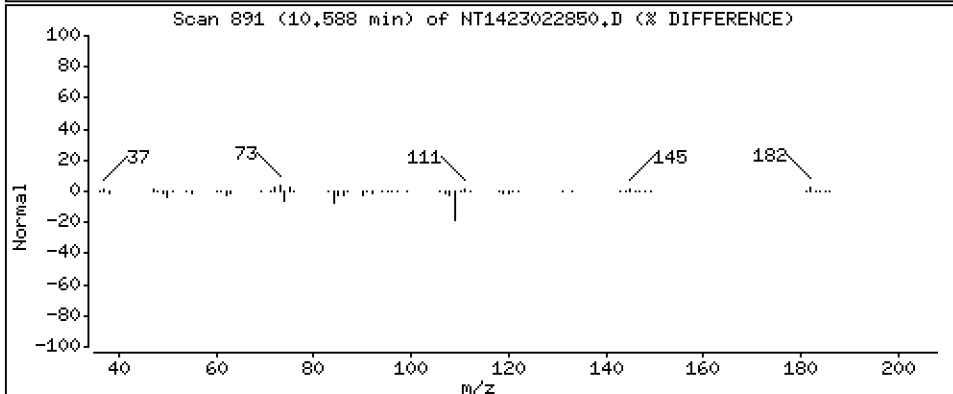
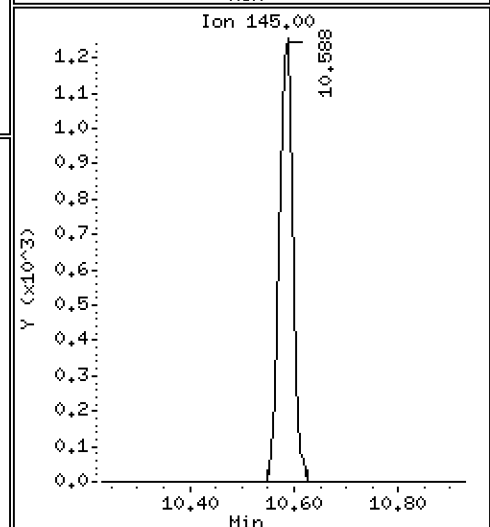
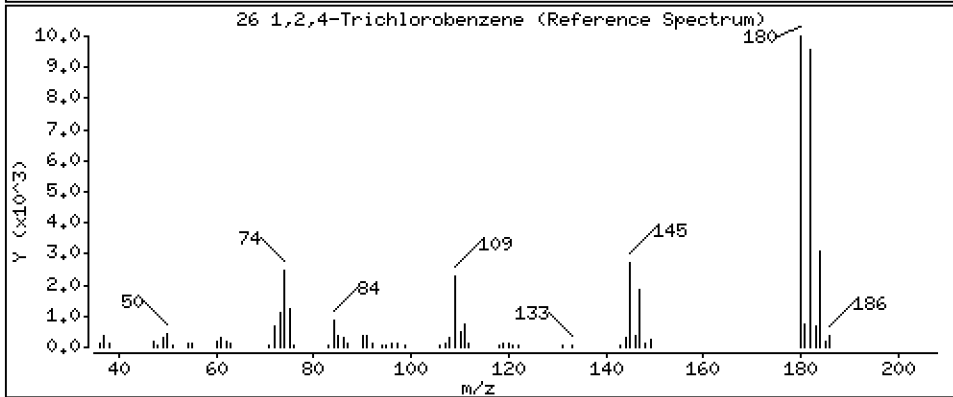
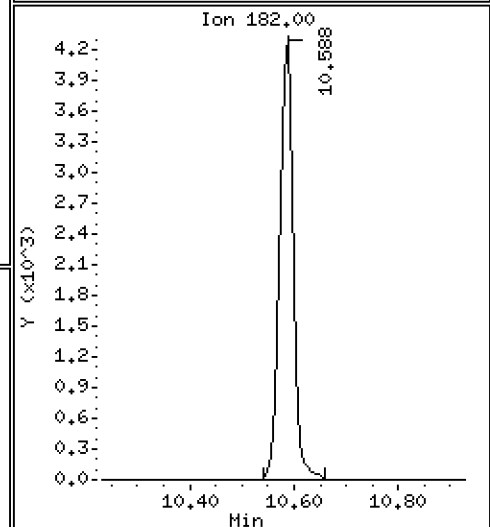
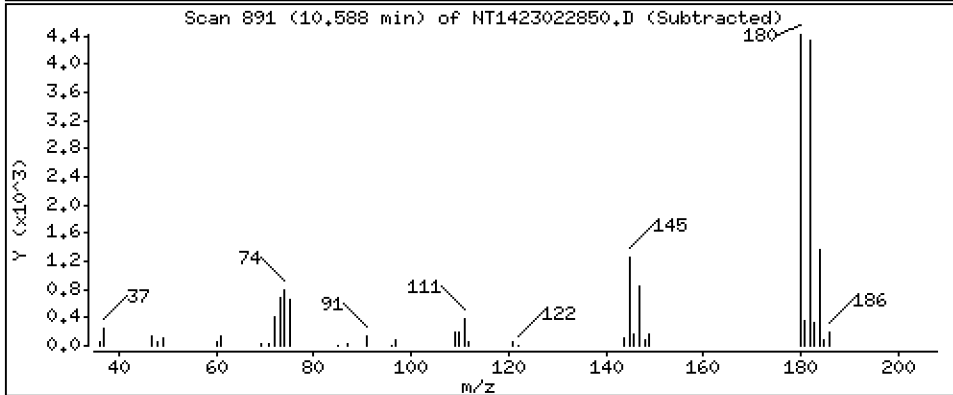
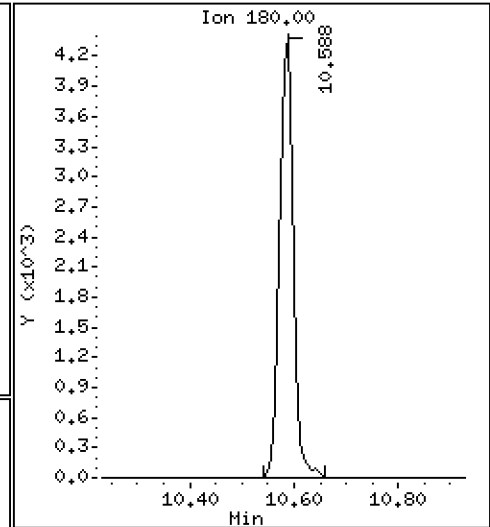
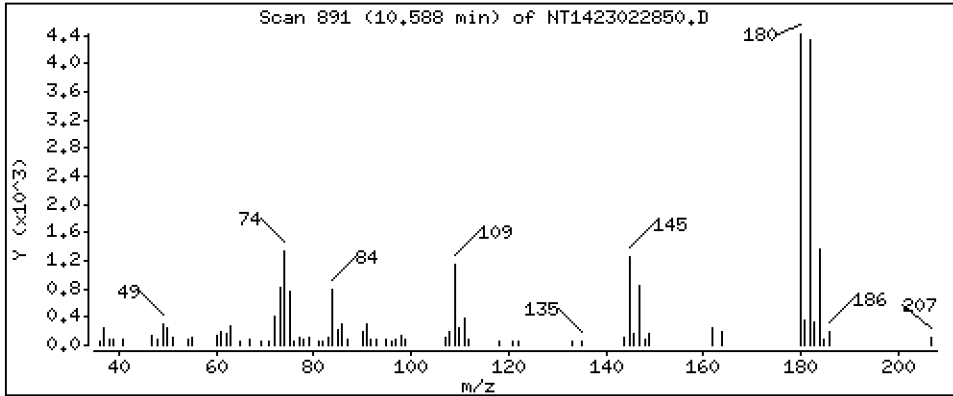
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,1955 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

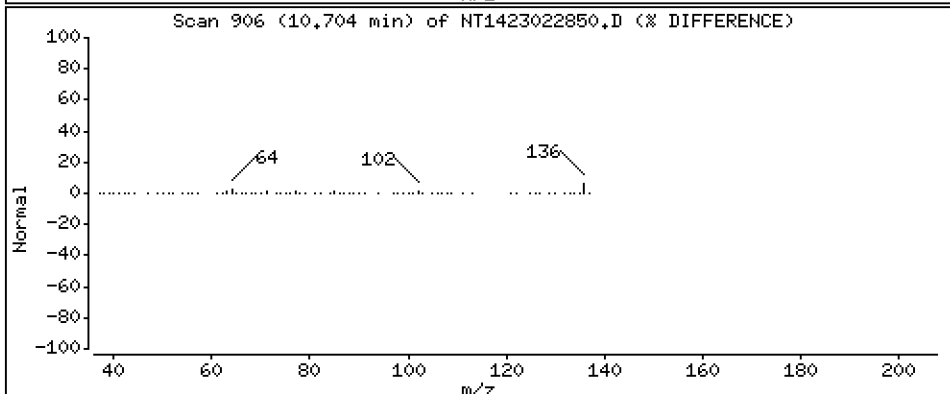
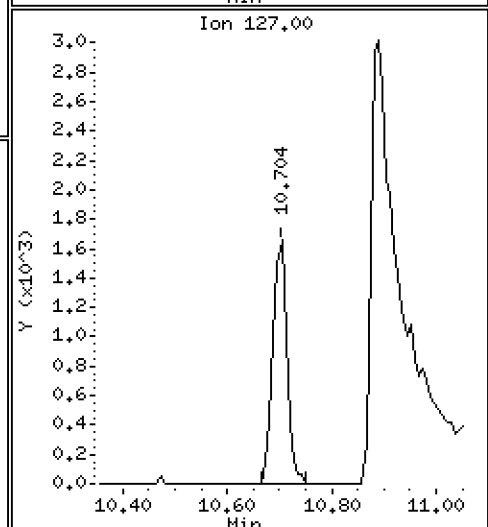
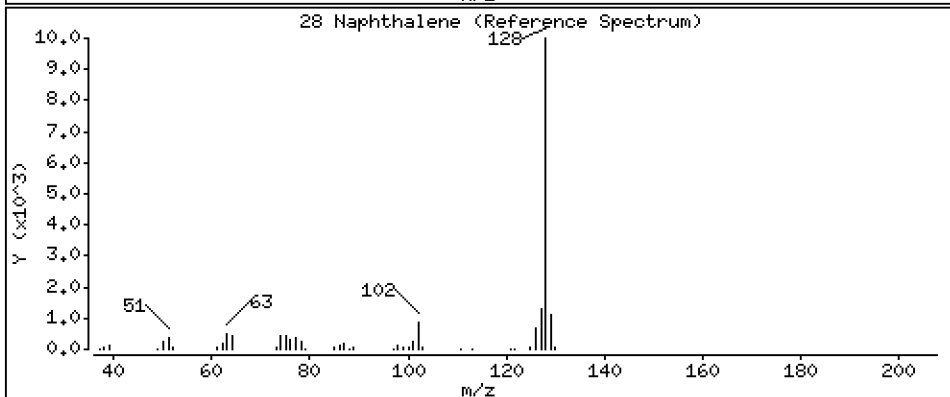
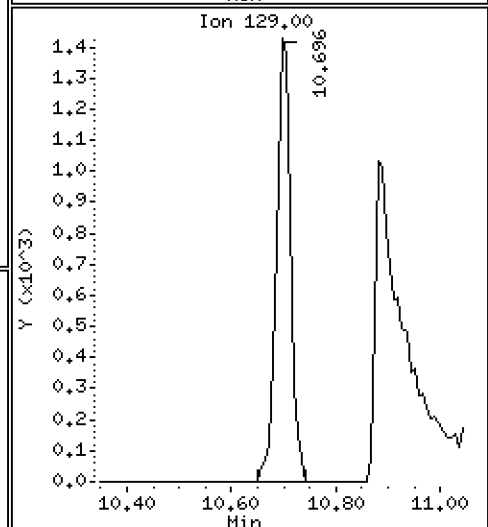
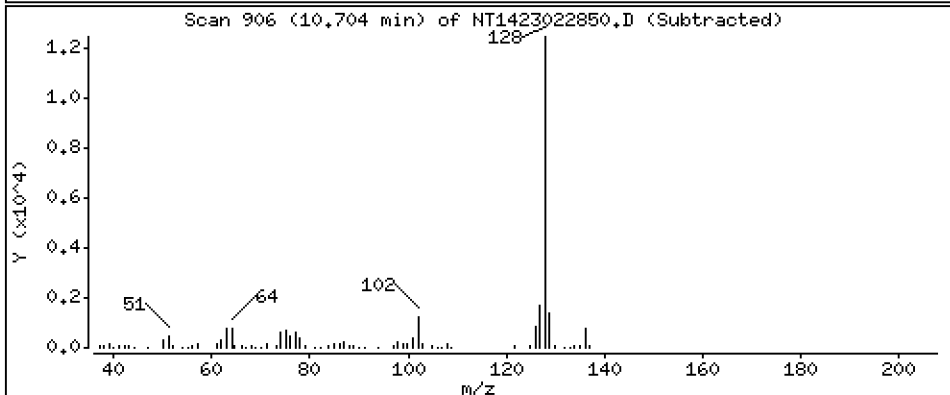
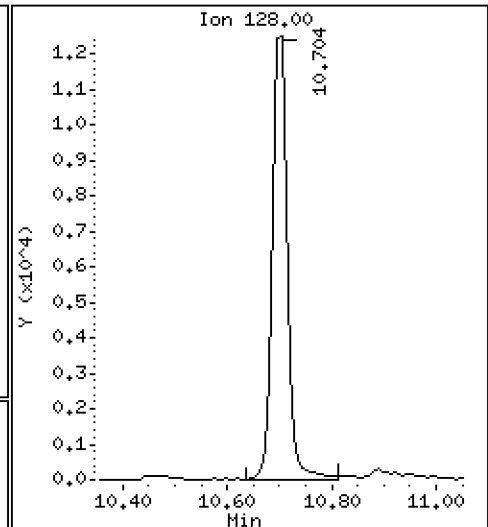
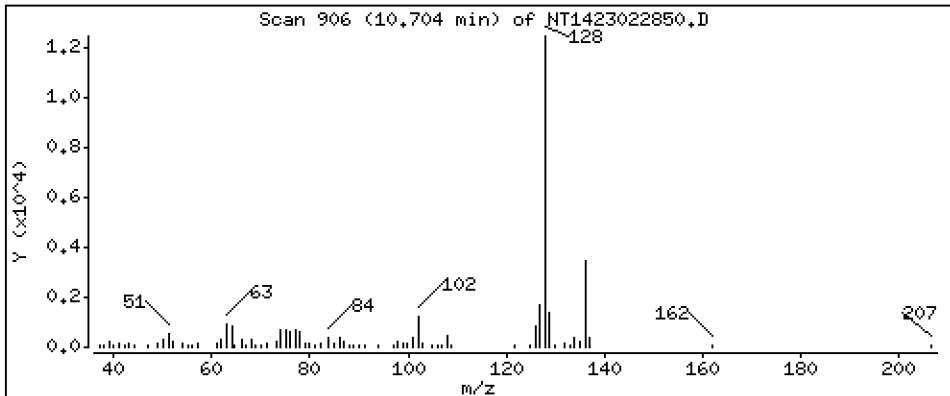
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2182 ug/mL





Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

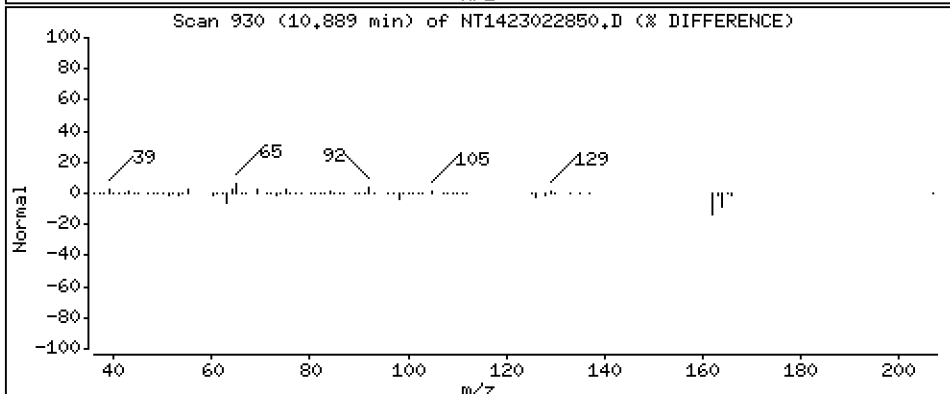
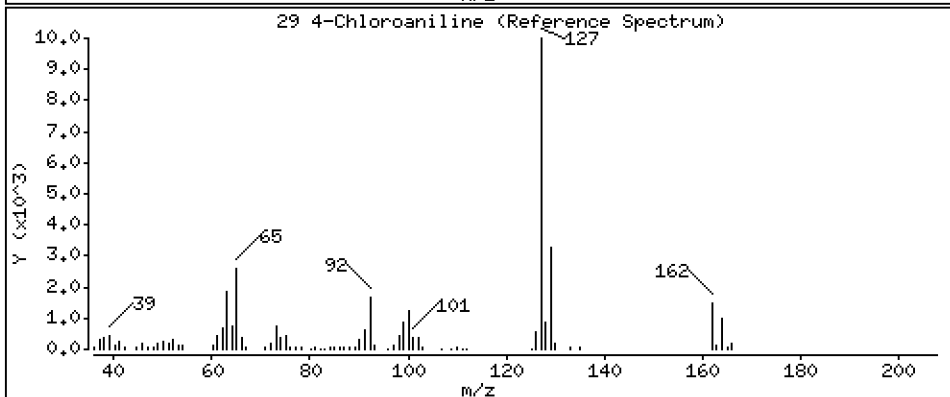
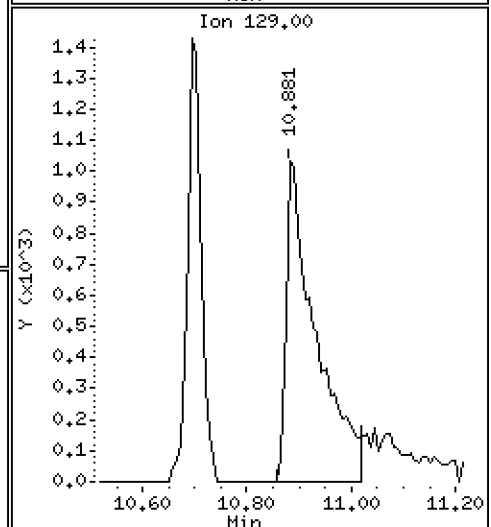
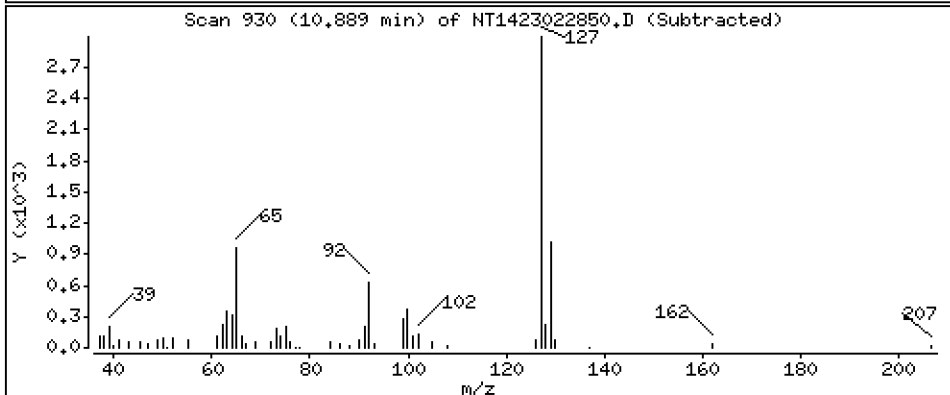
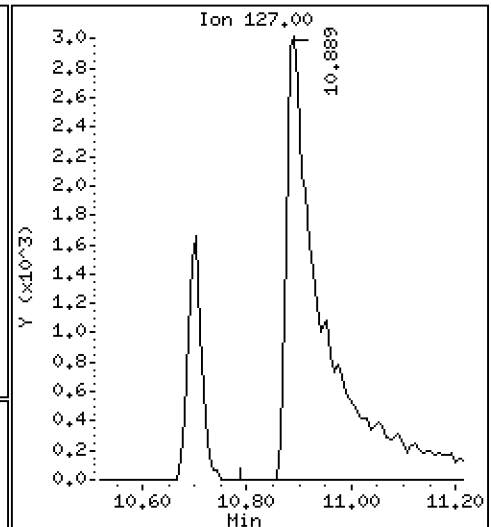
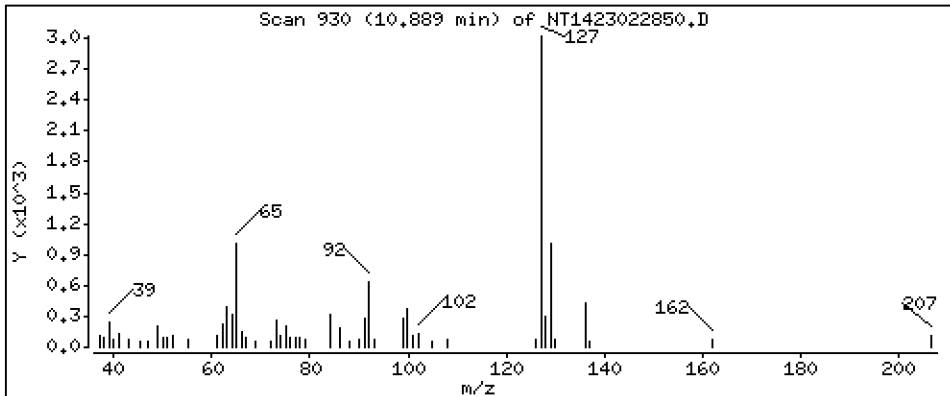
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3426 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

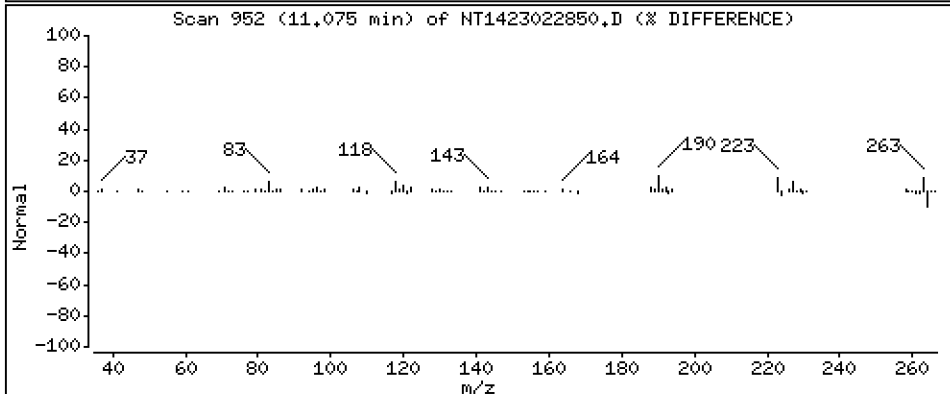
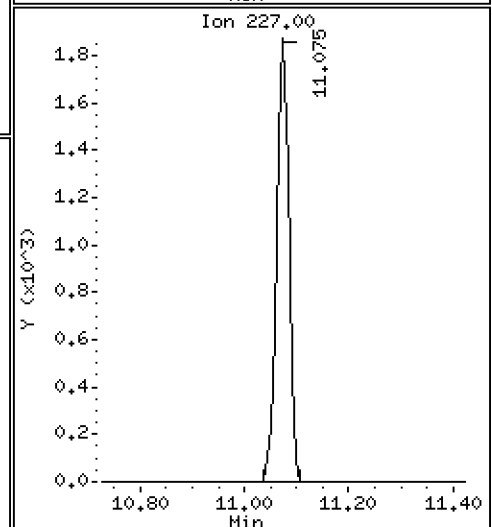
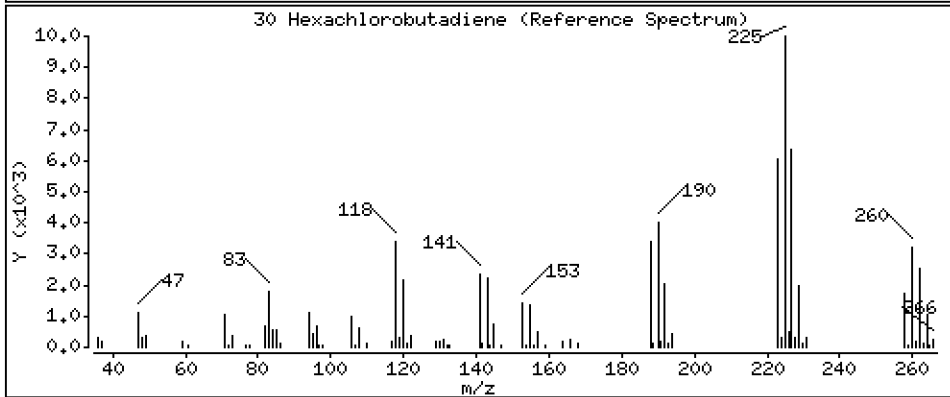
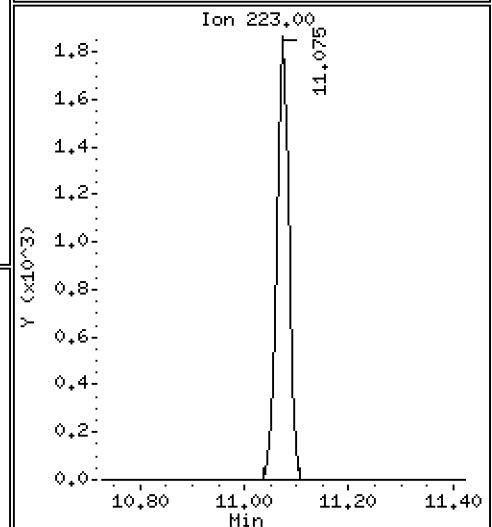
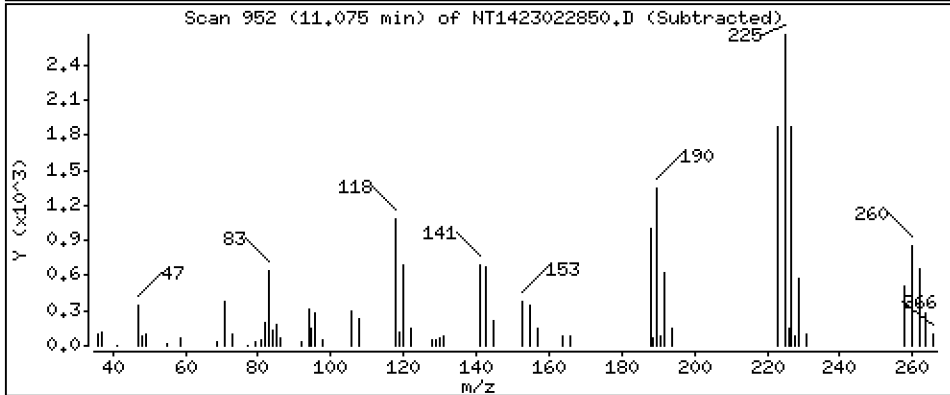
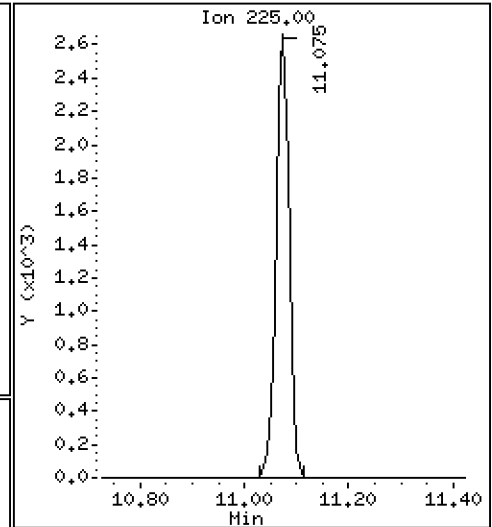
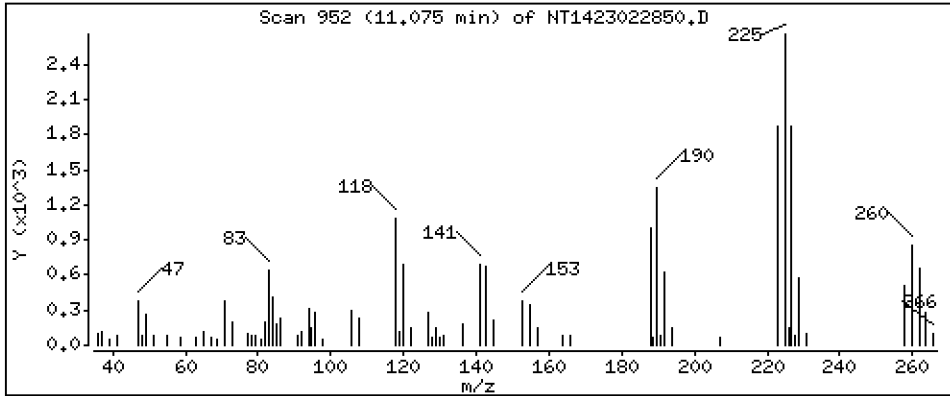
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,1812 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

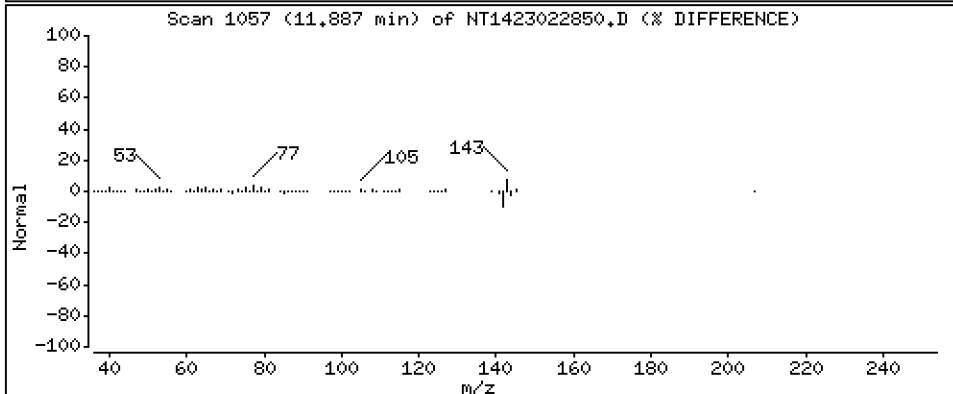
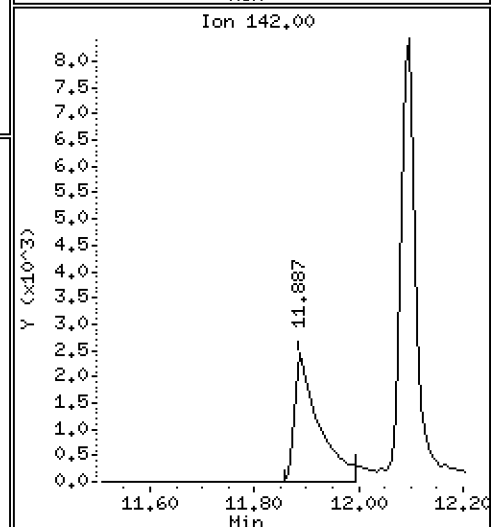
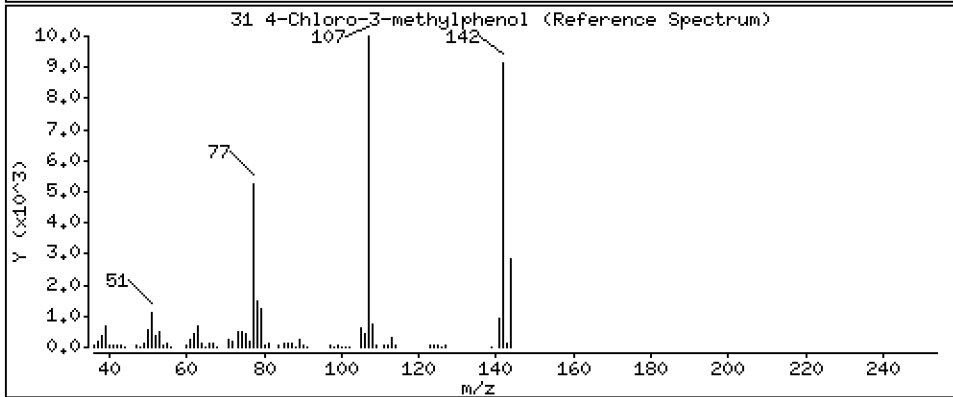
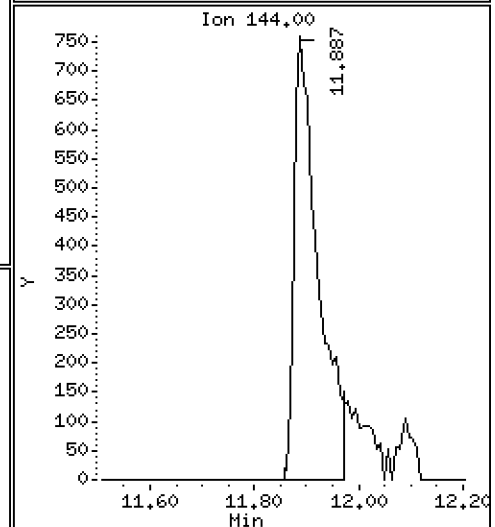
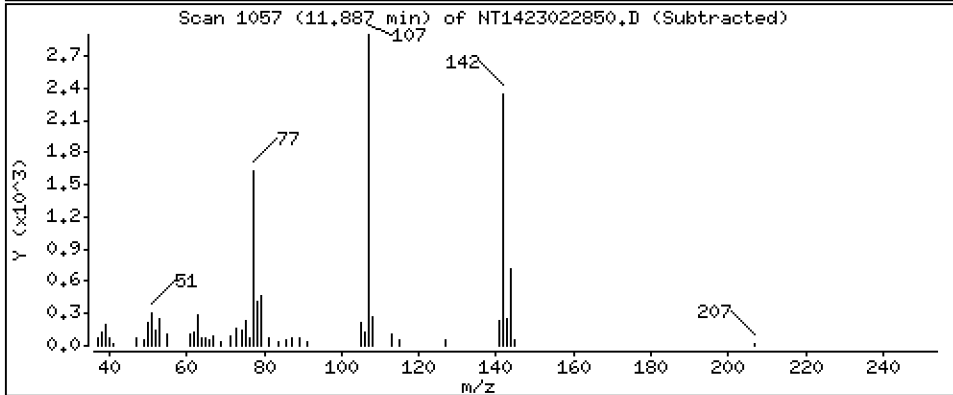
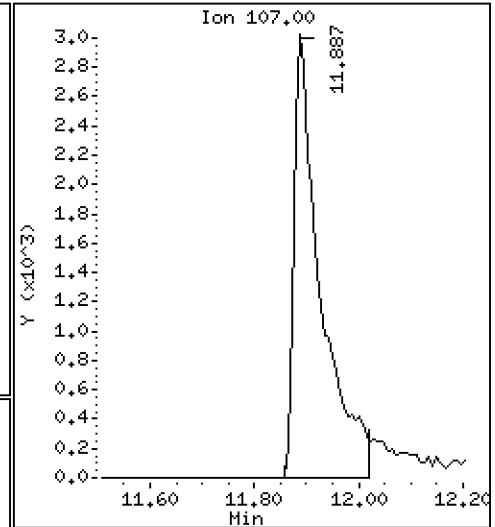
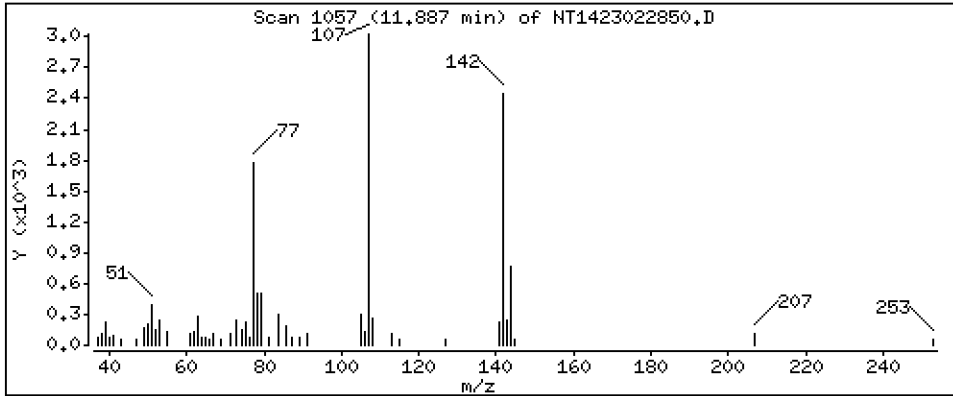
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,3431 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

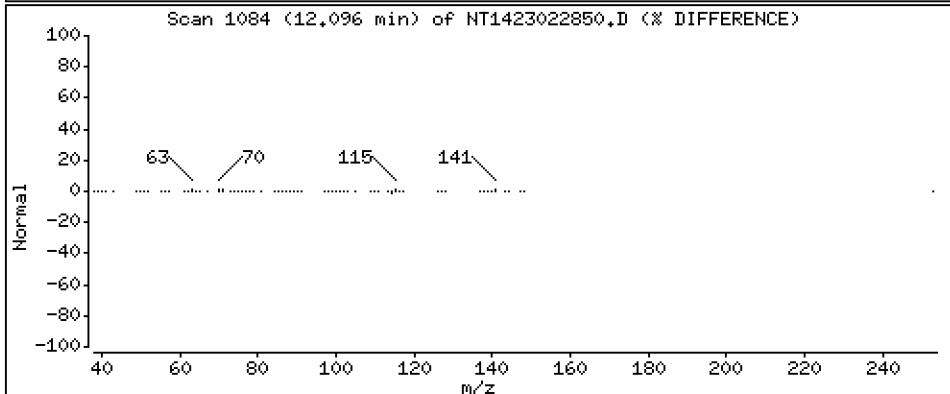
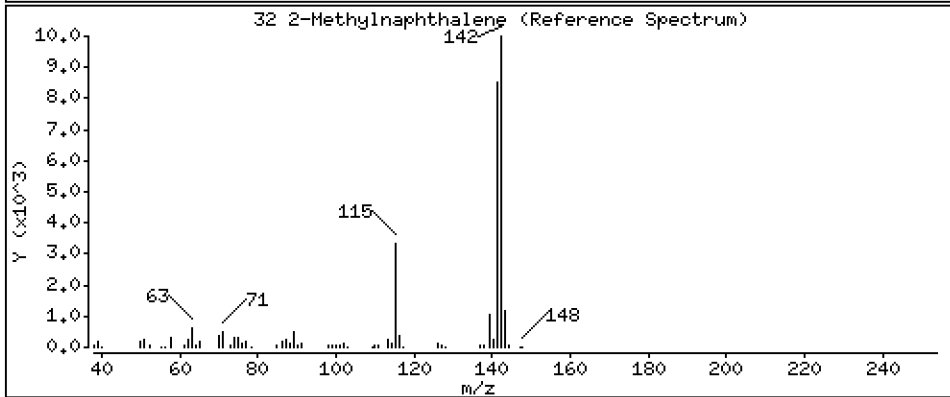
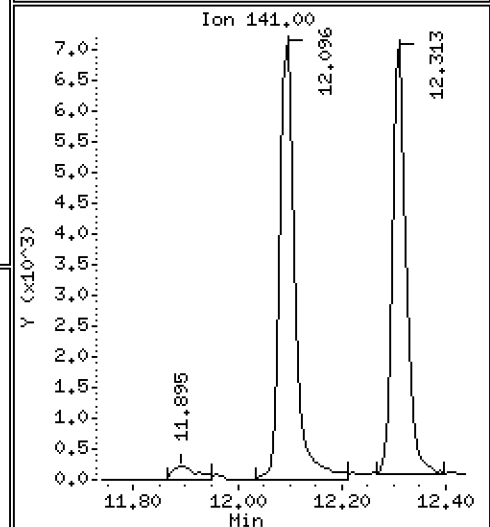
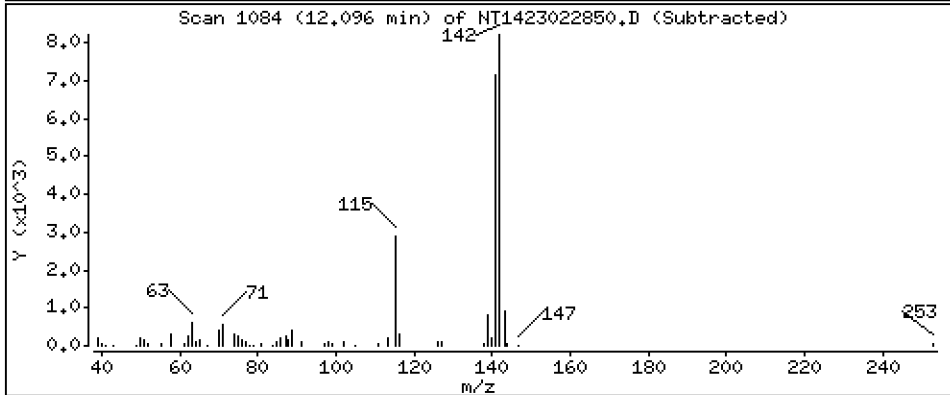
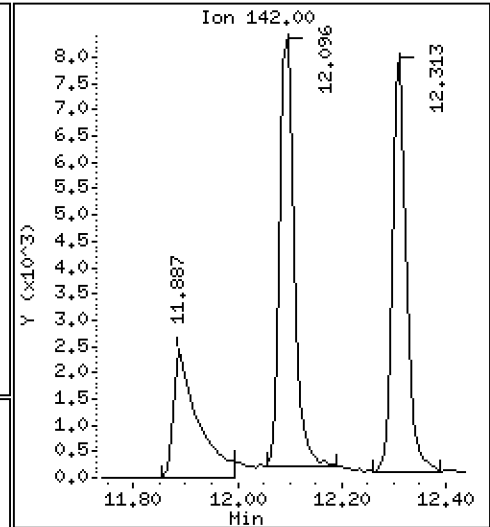
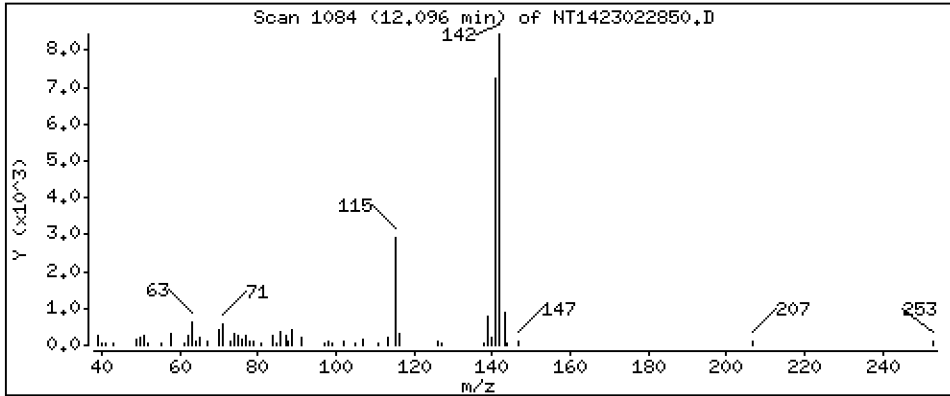
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1846 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

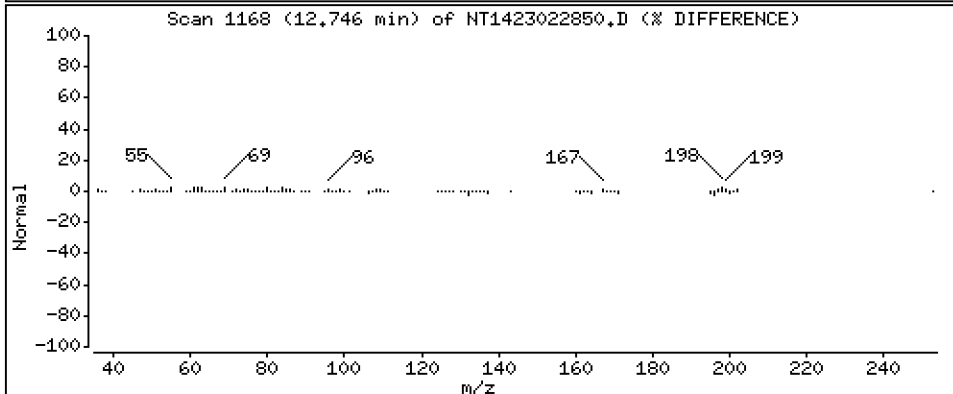
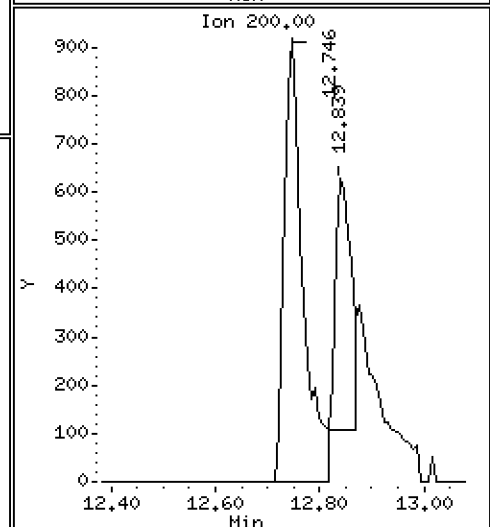
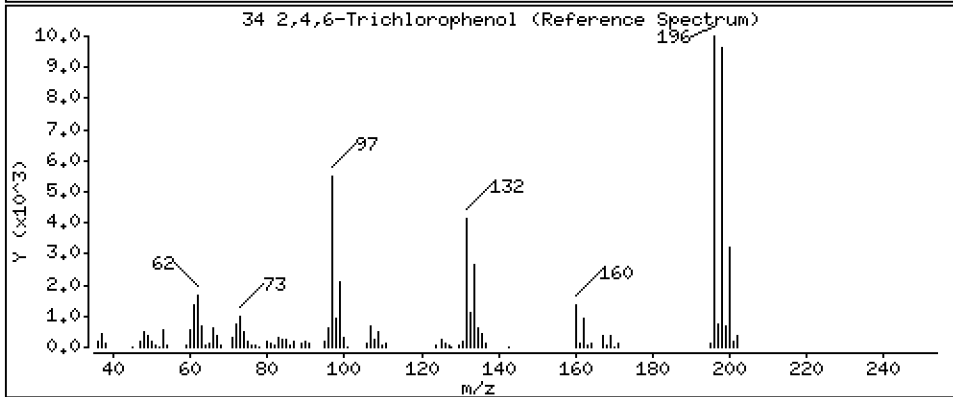
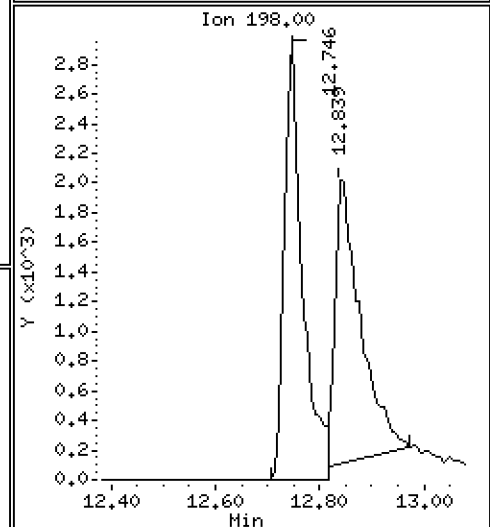
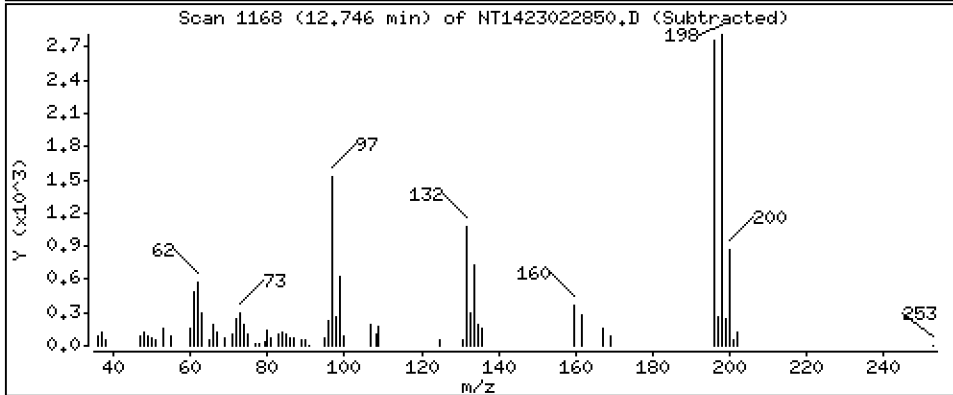
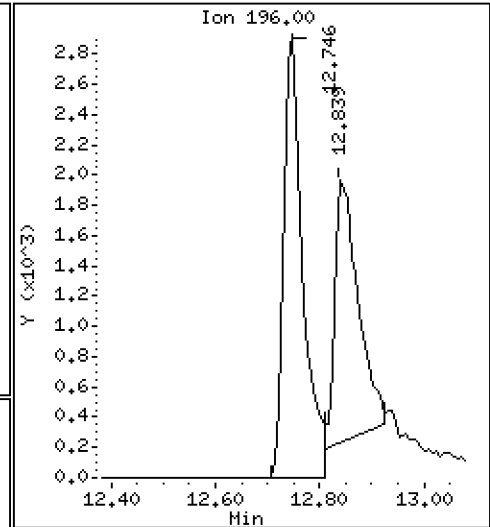
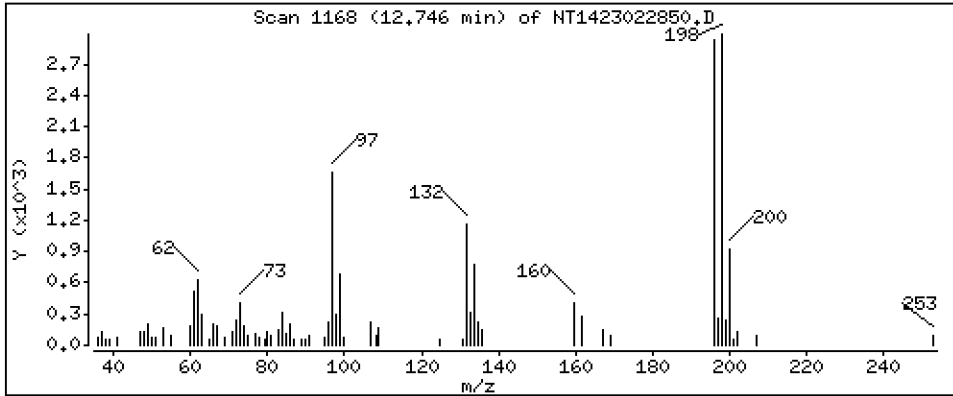
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

34 2,4,6-Trichlorophenol

Concentration: 0.3241 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

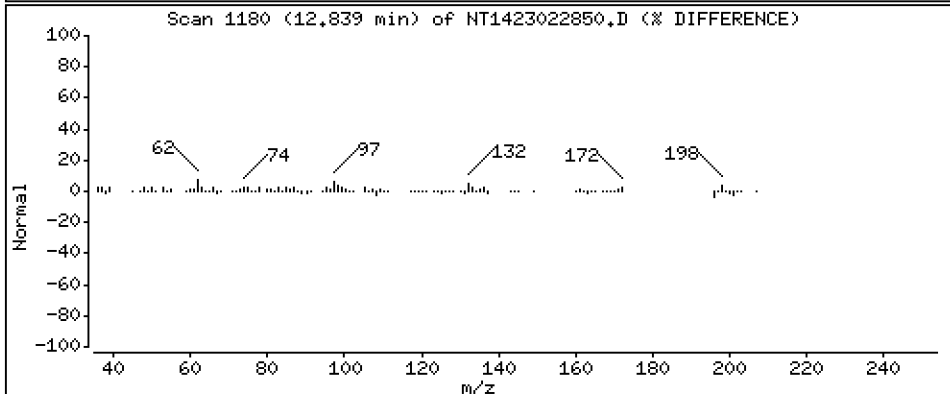
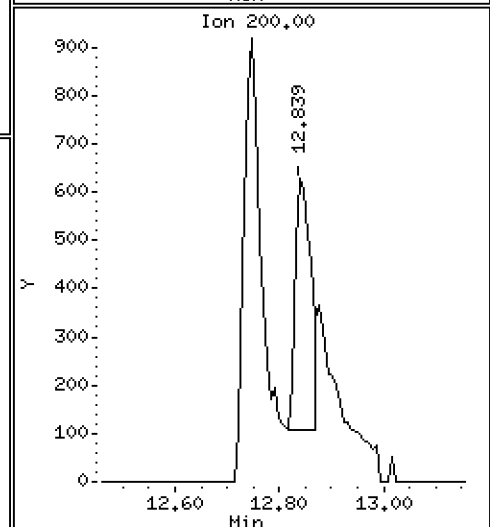
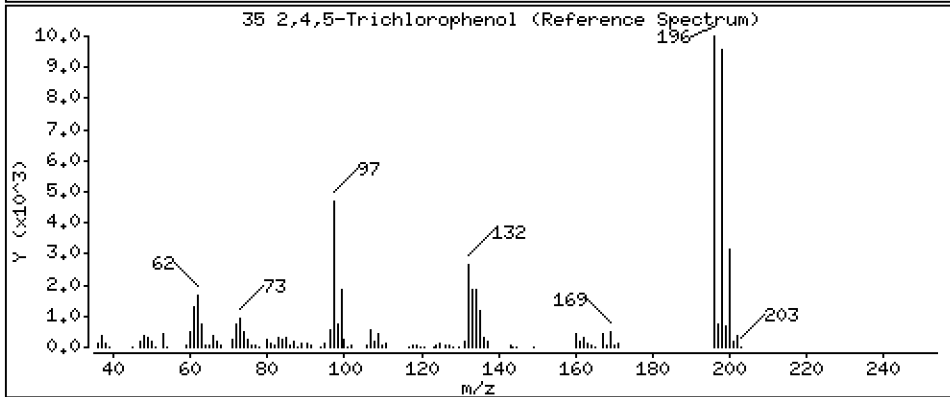
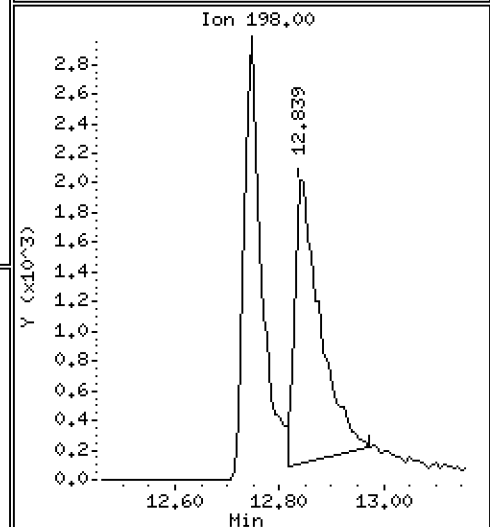
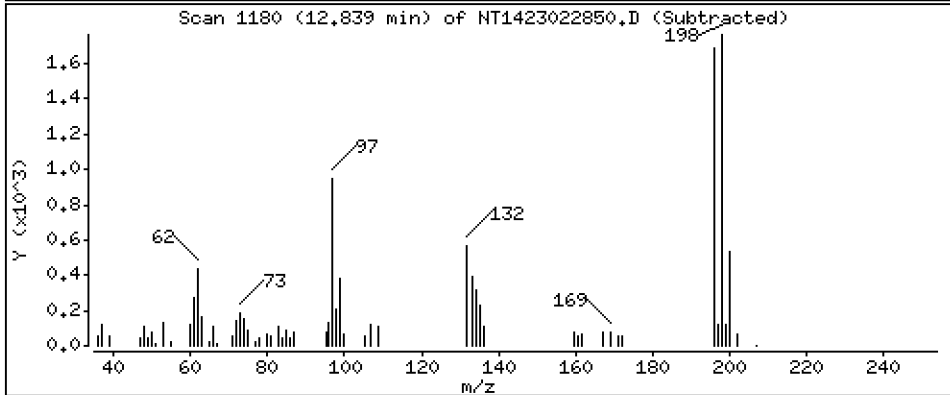
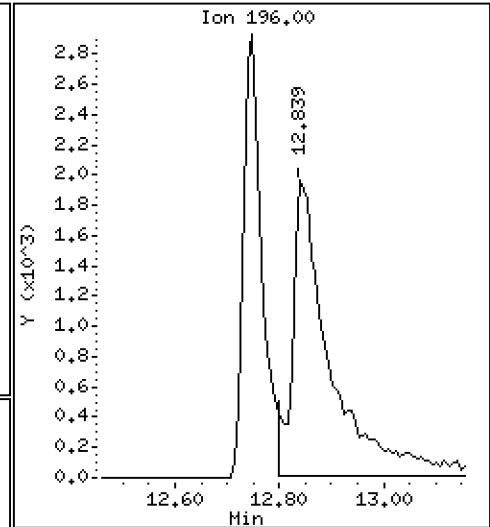
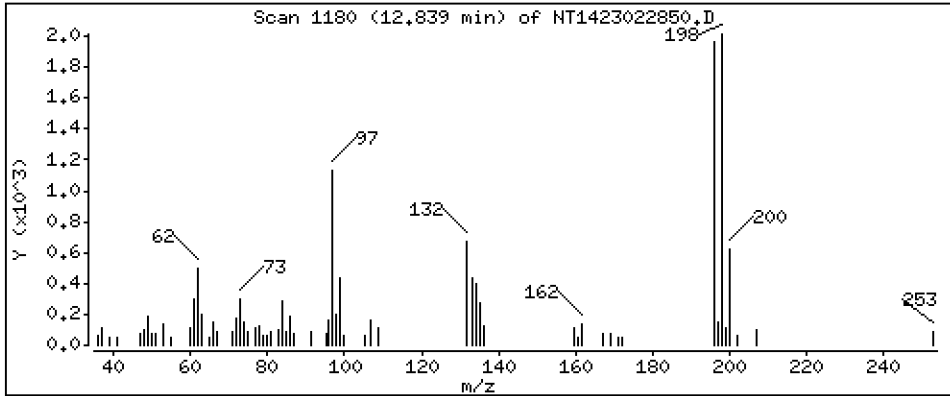
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

35 2,4,5-Trichlorophenol

Concentration: 0.4190 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

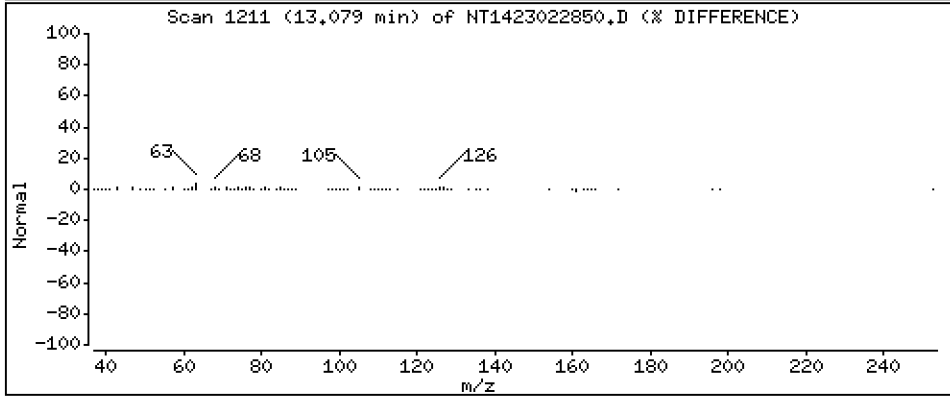
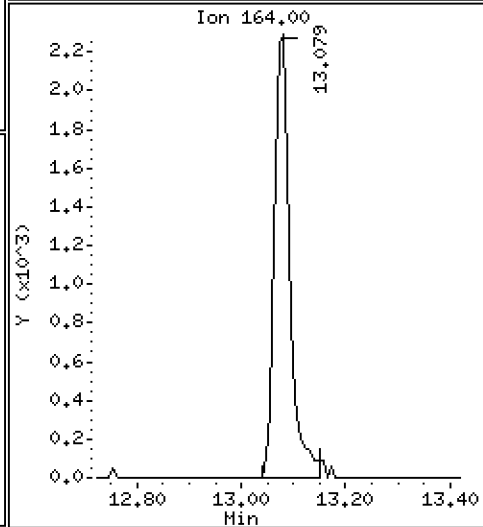
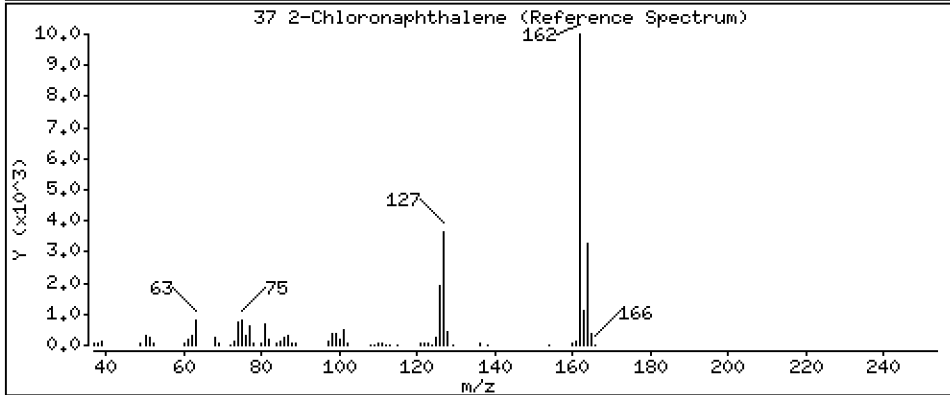
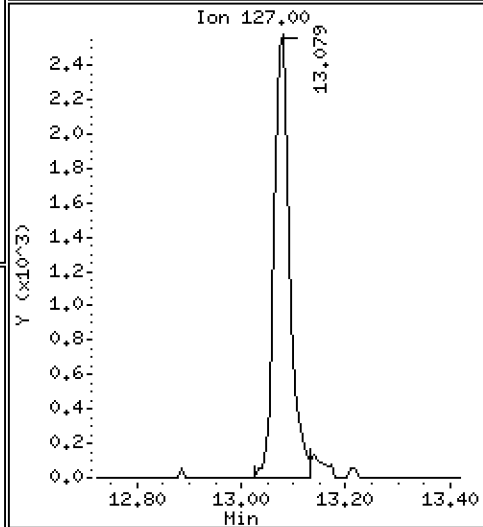
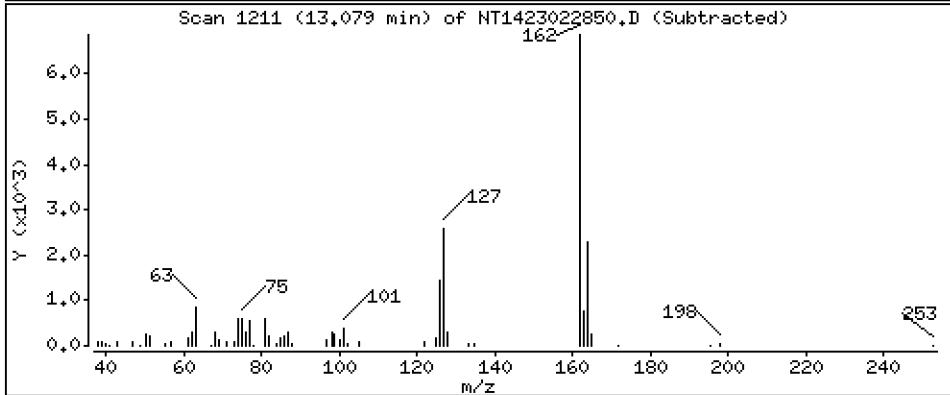
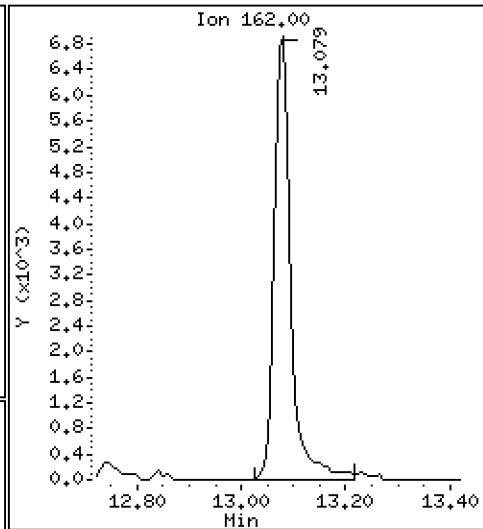
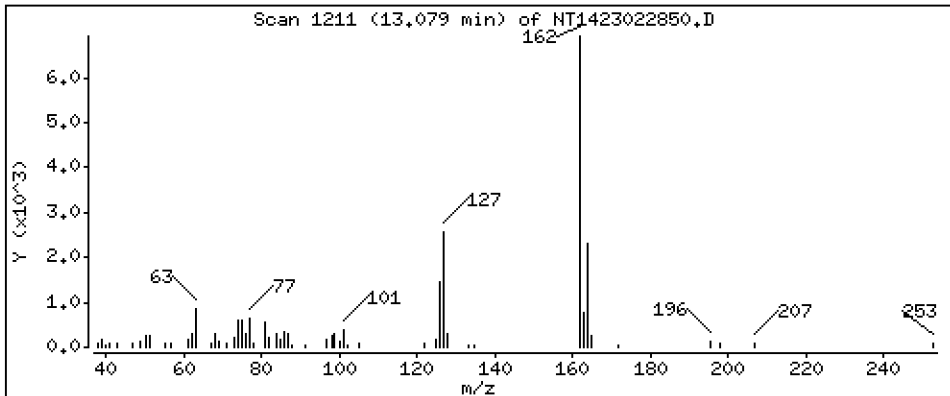
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,2084 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

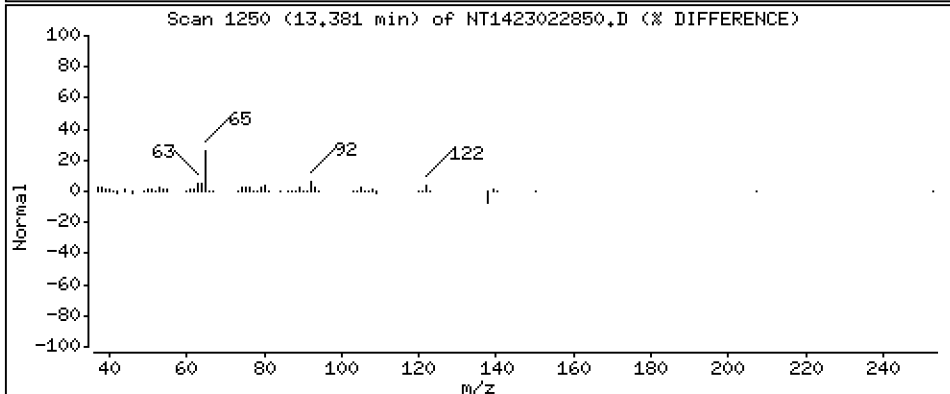
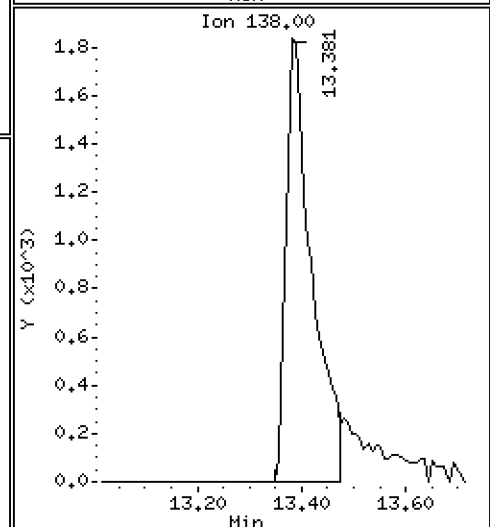
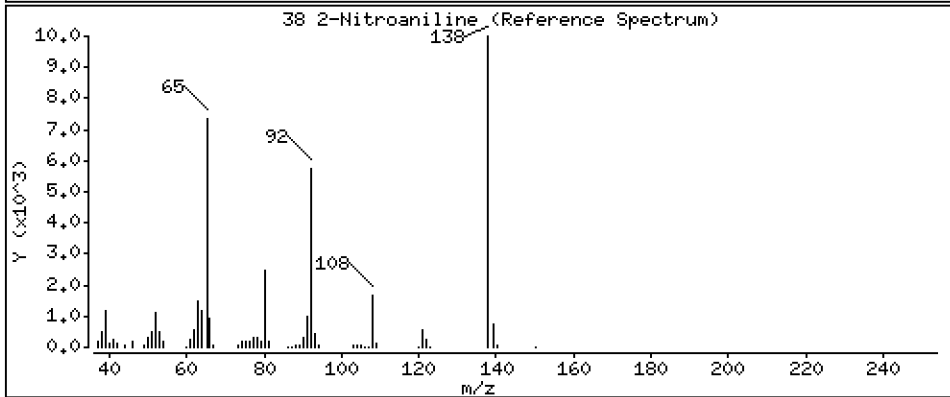
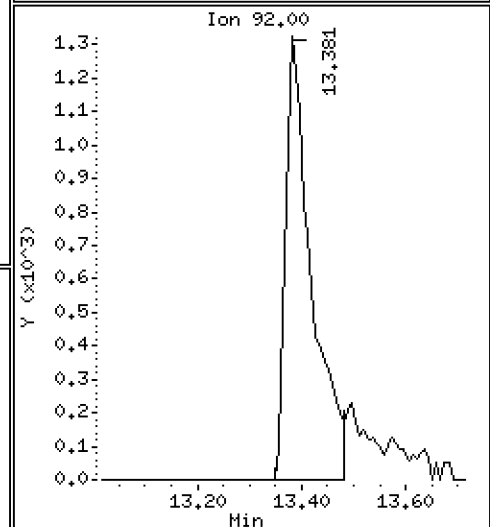
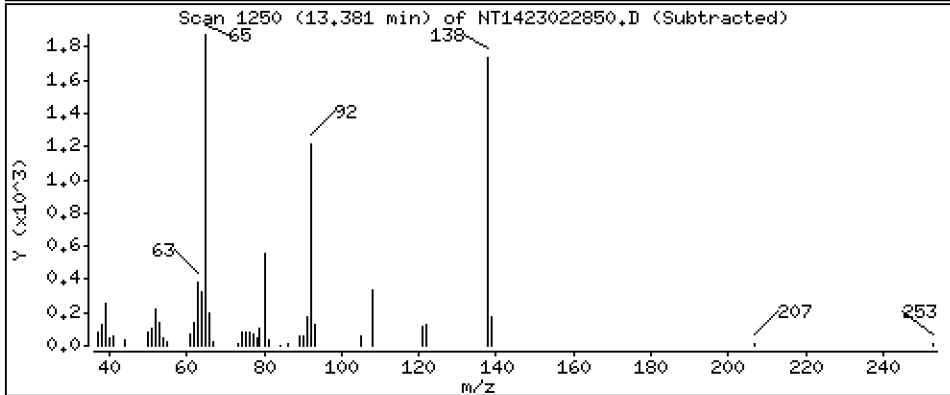
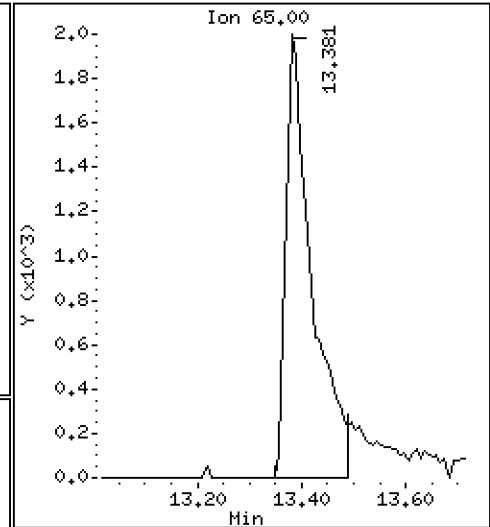
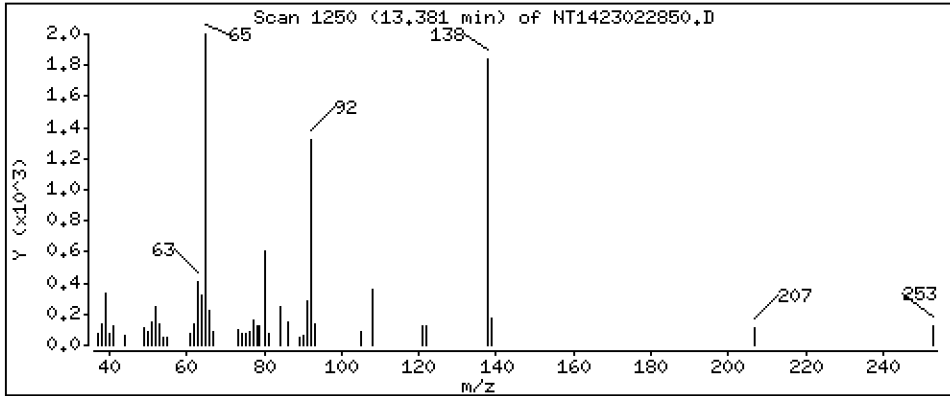
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,3674 ug/mL





Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

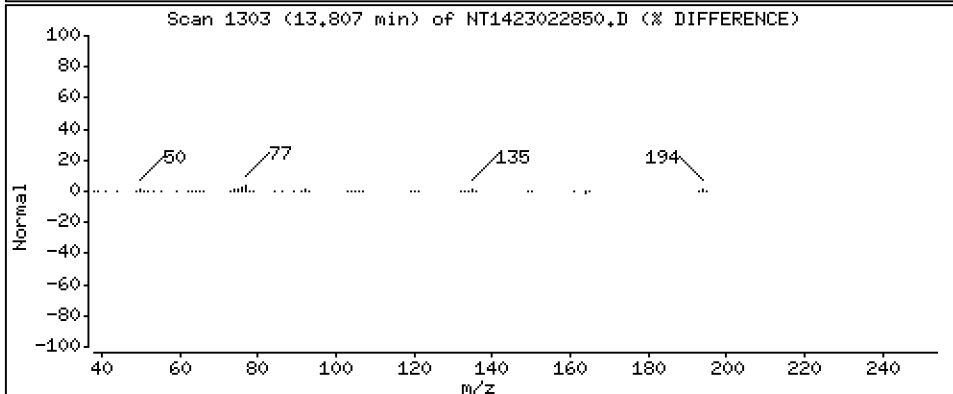
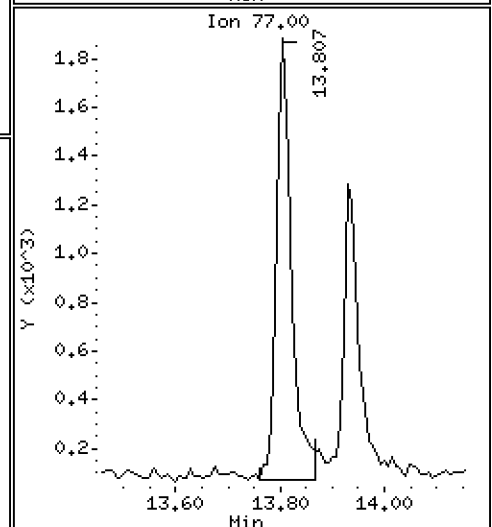
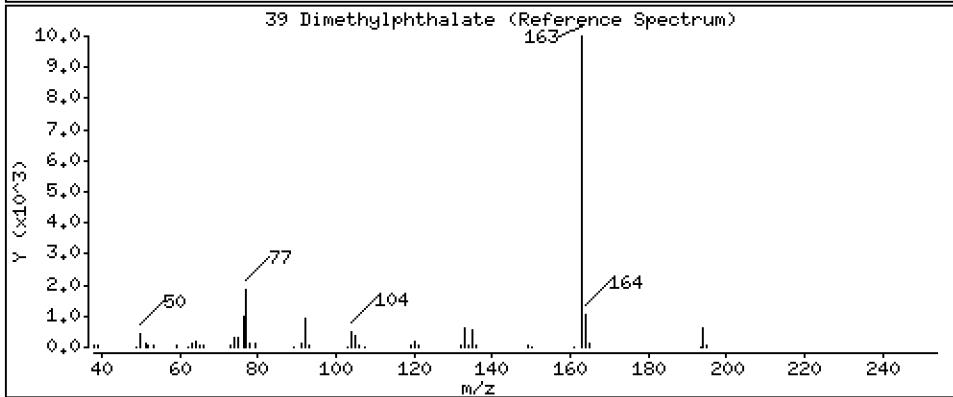
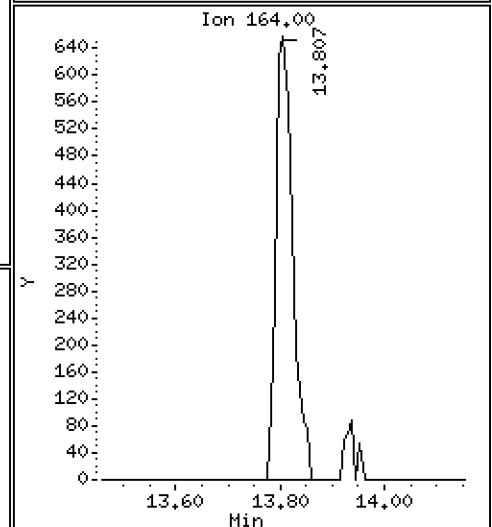
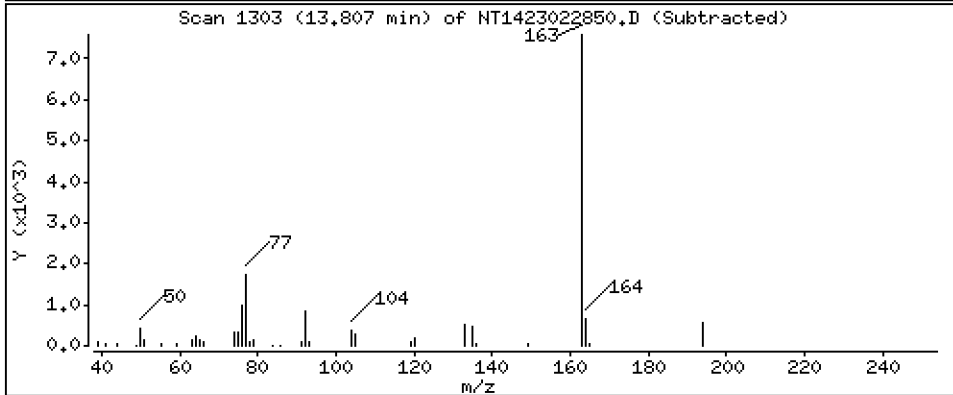
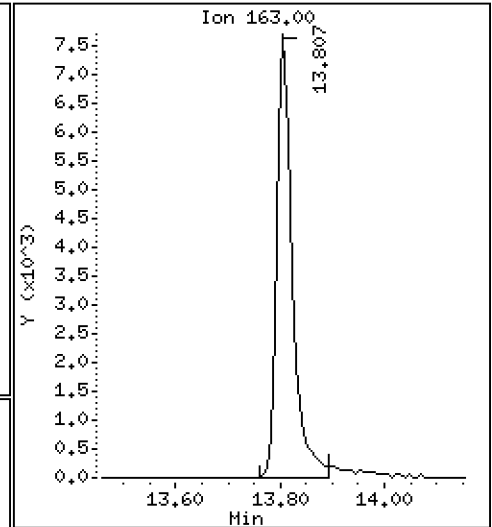
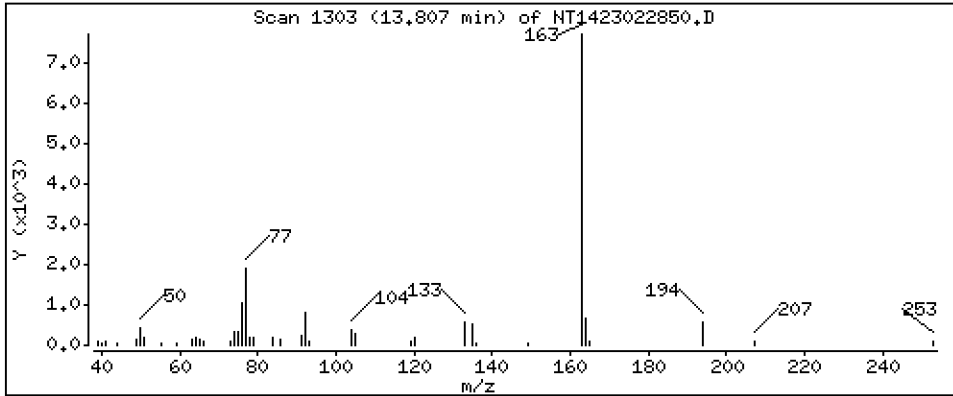
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2096 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

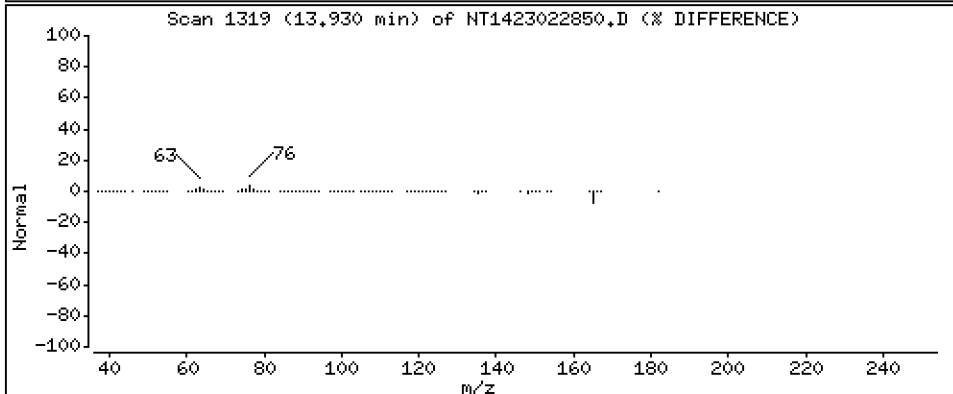
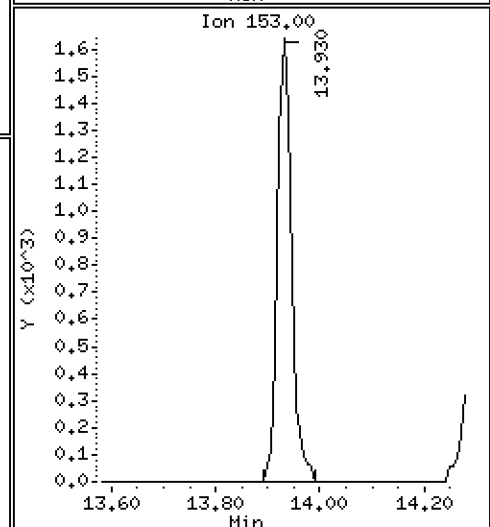
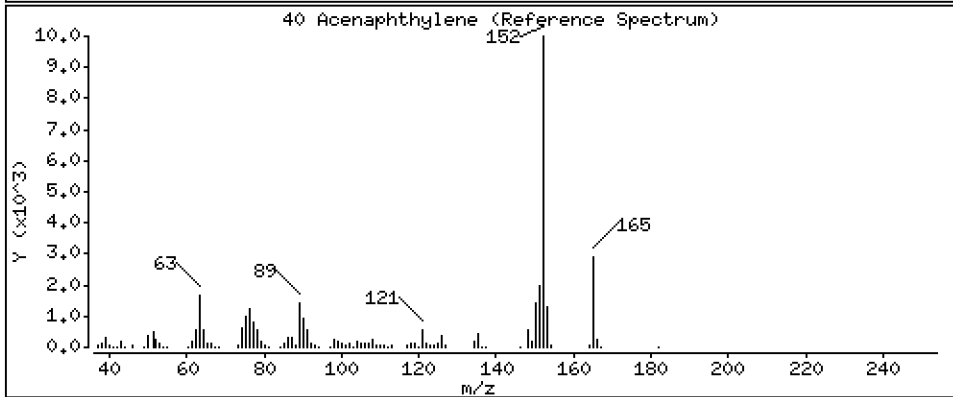
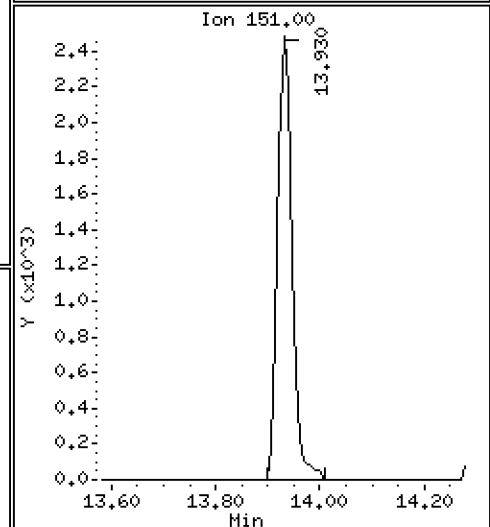
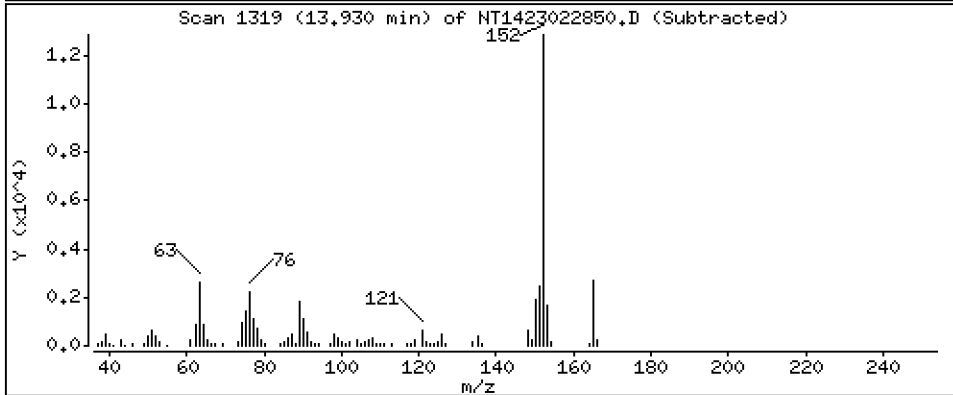
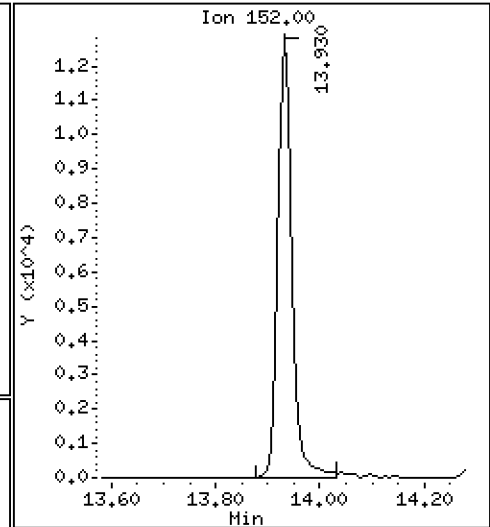
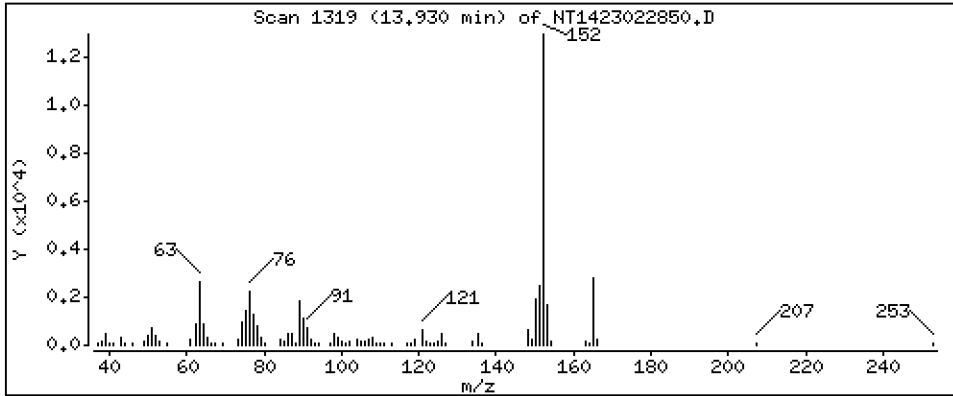
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2184 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

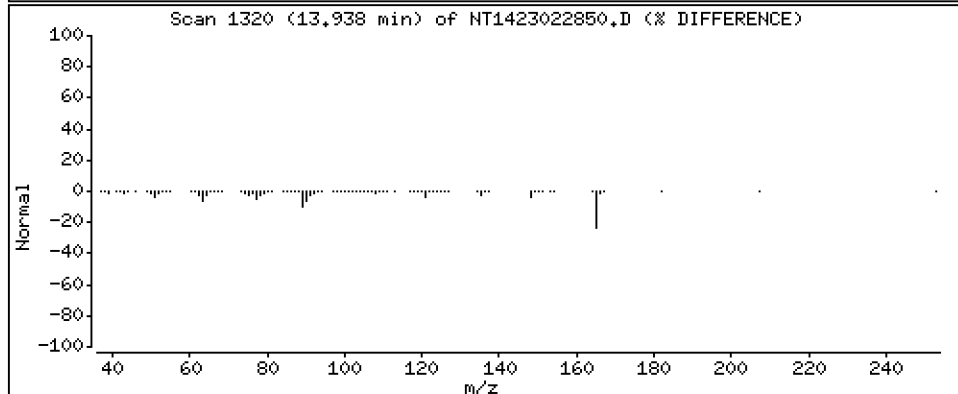
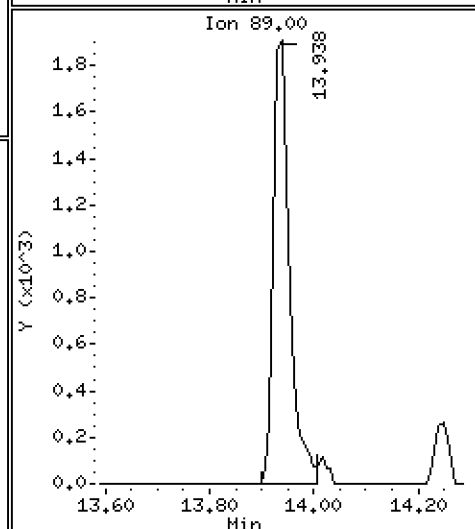
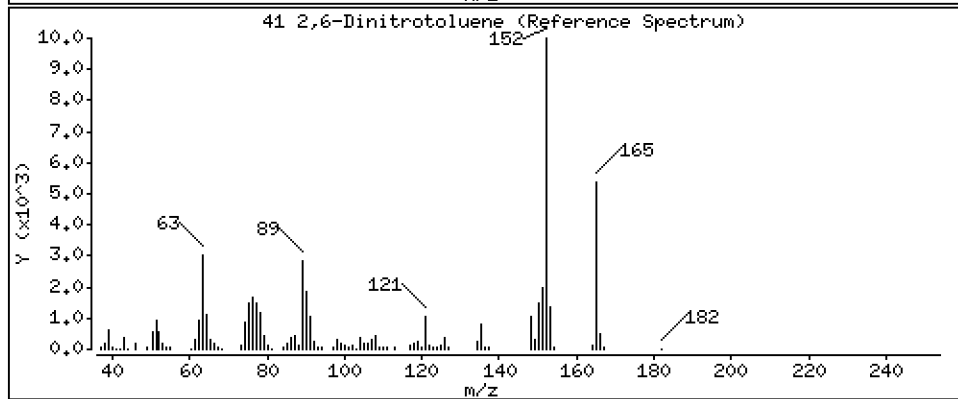
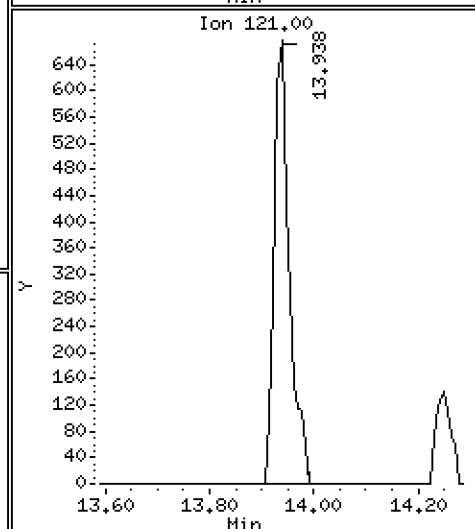
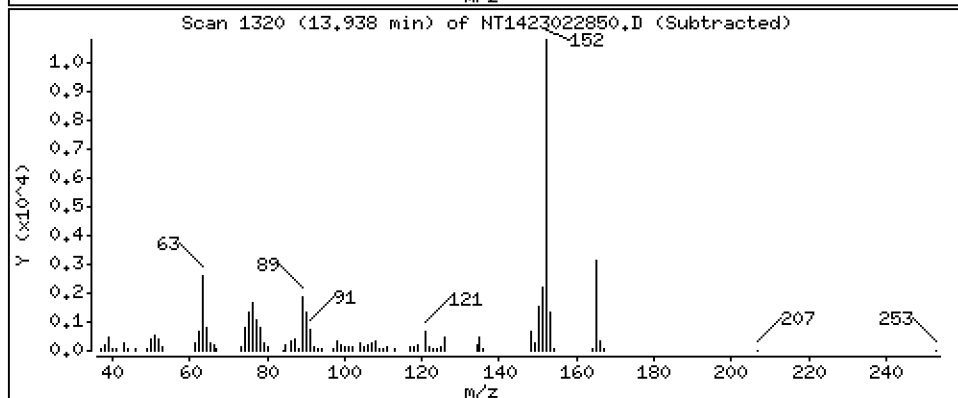
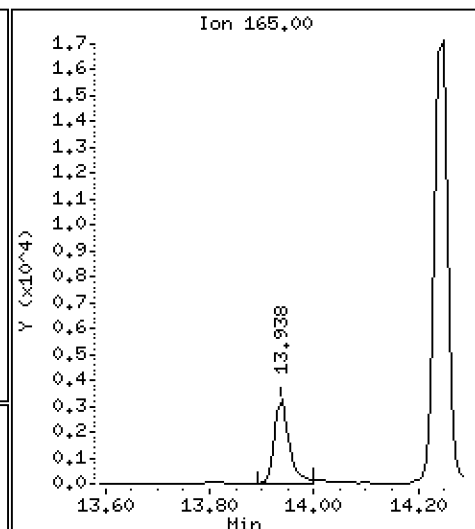
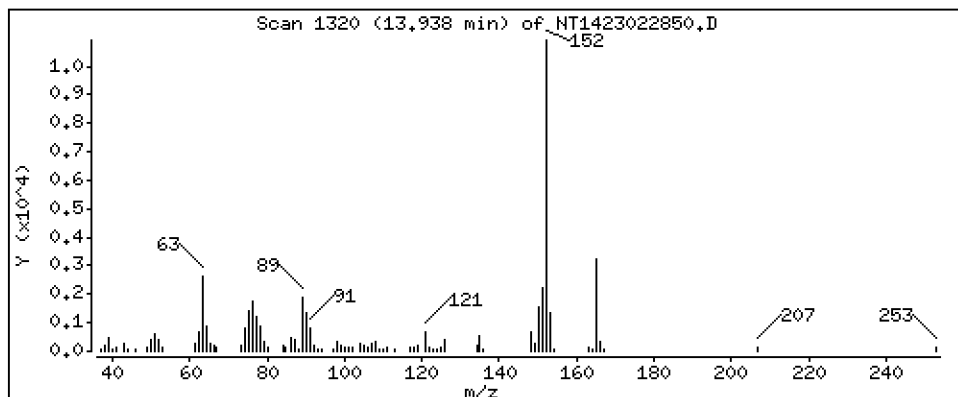
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 0,3645 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

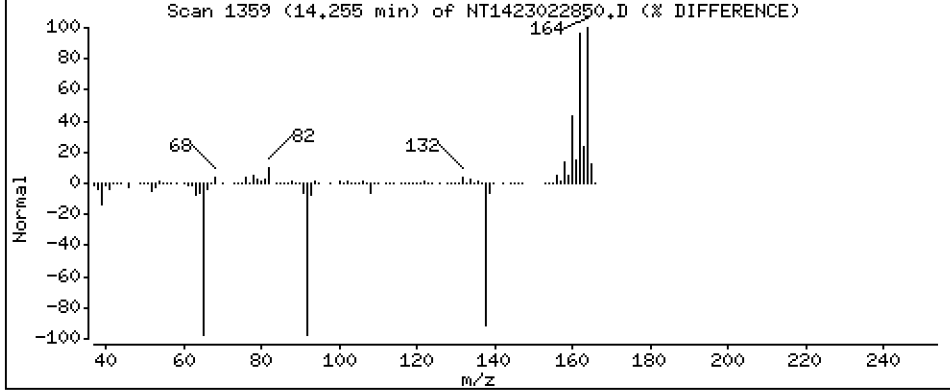
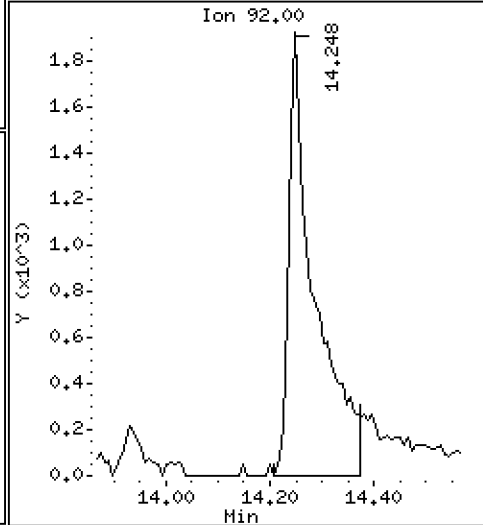
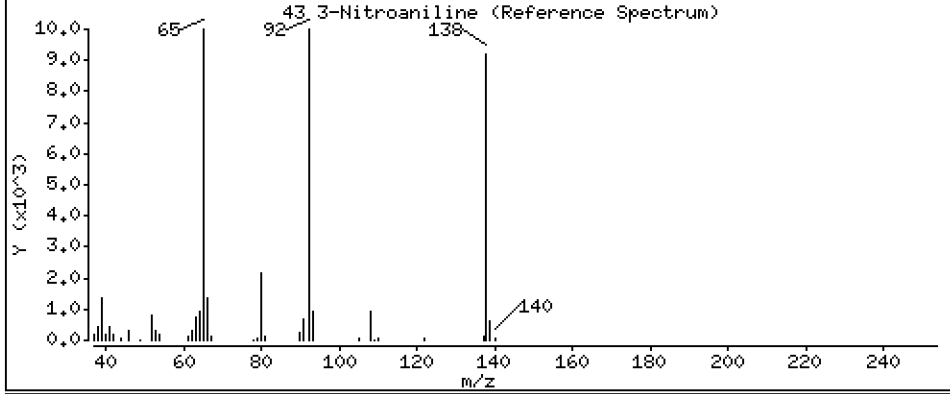
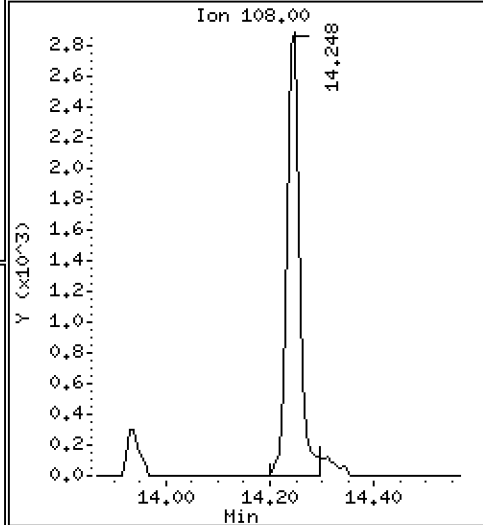
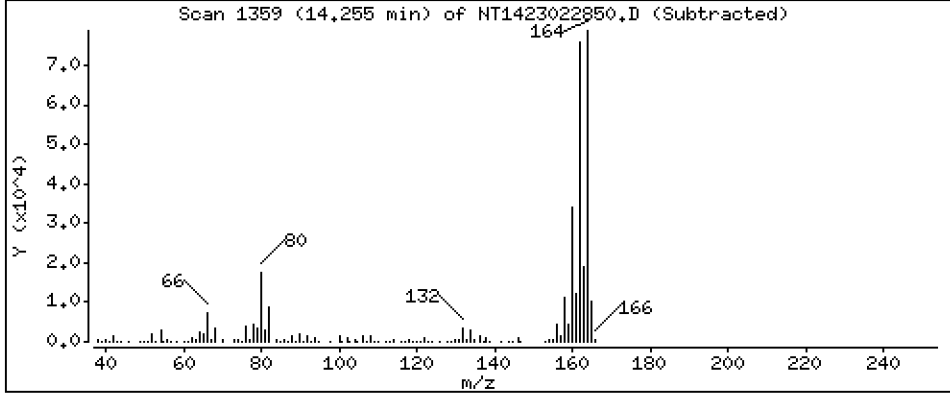
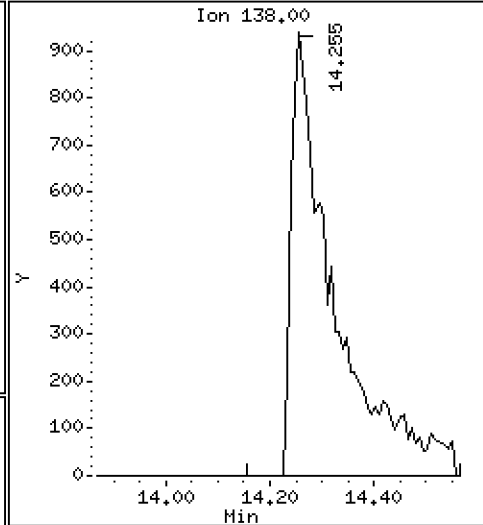
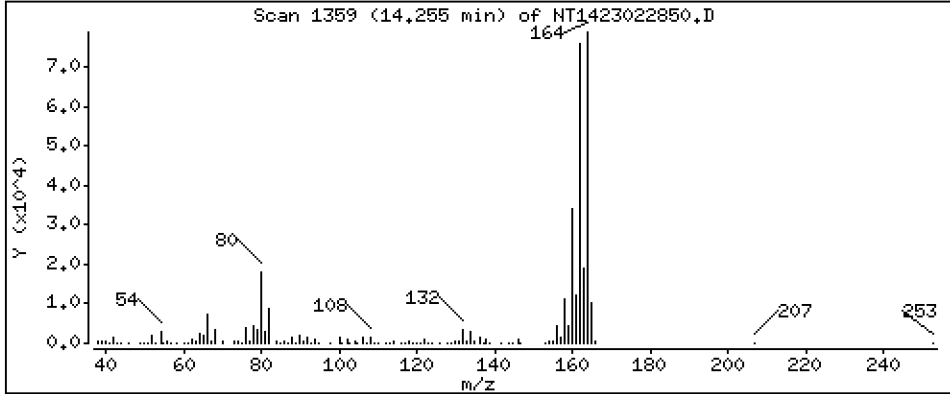
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,3086 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

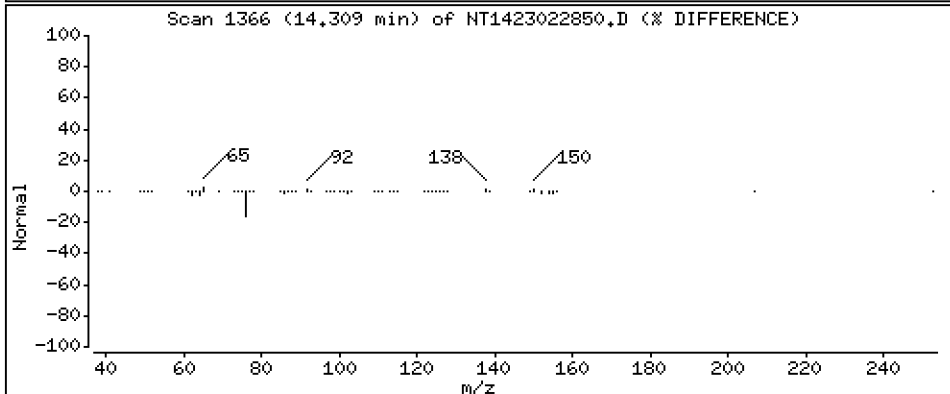
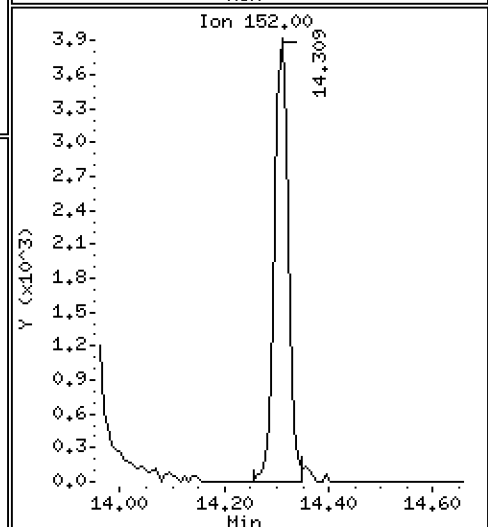
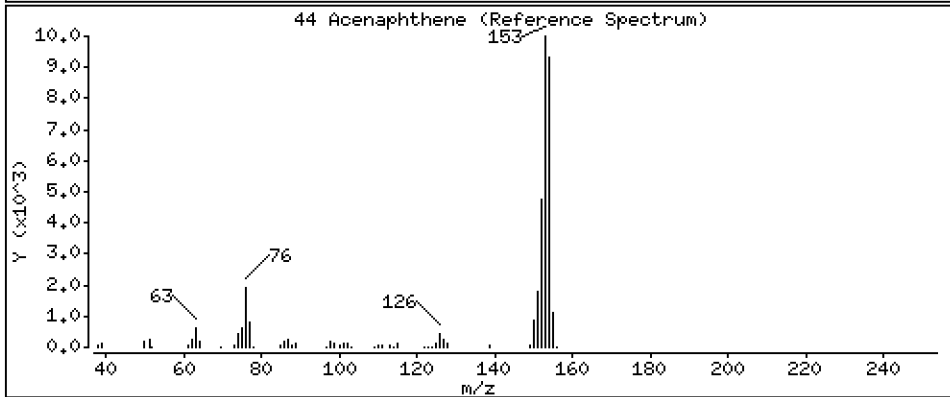
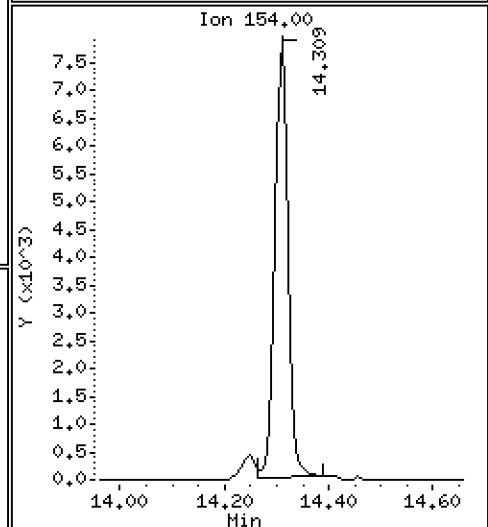
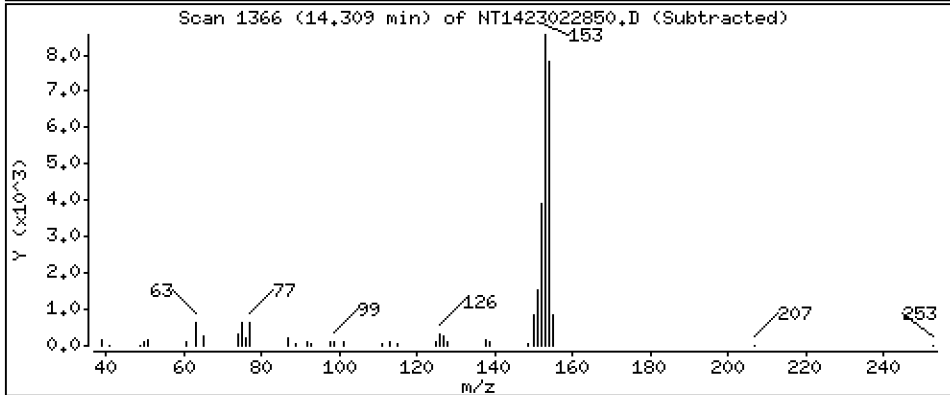
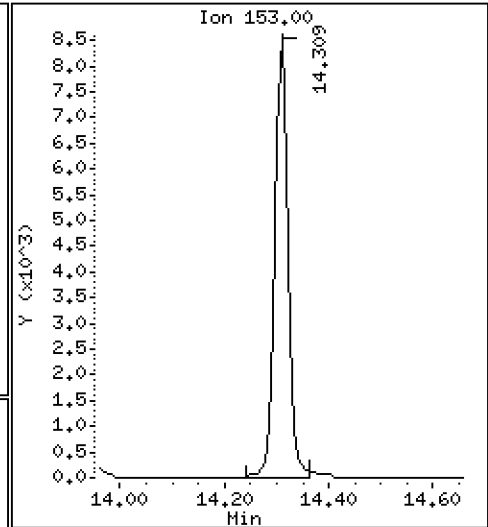
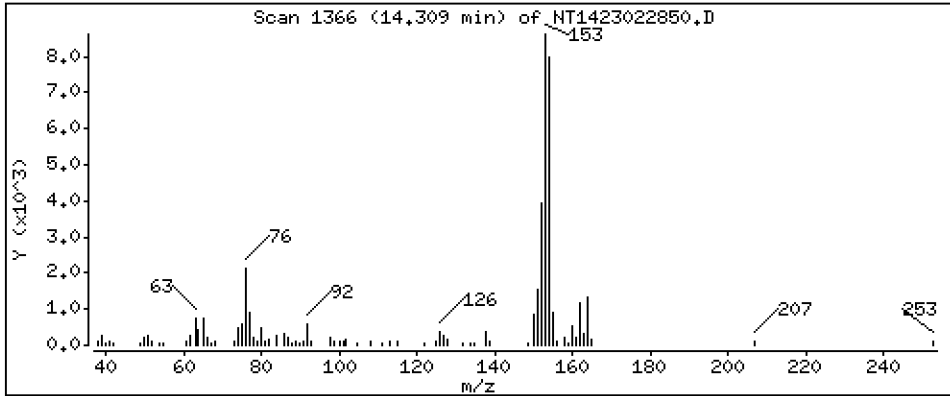
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,2105 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

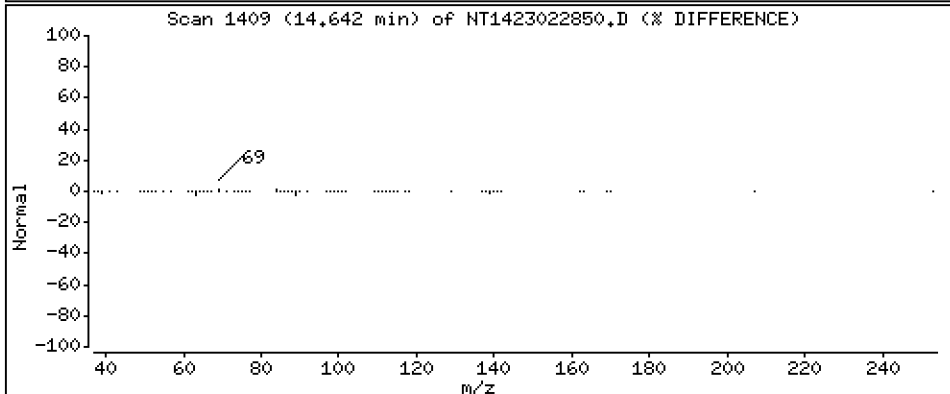
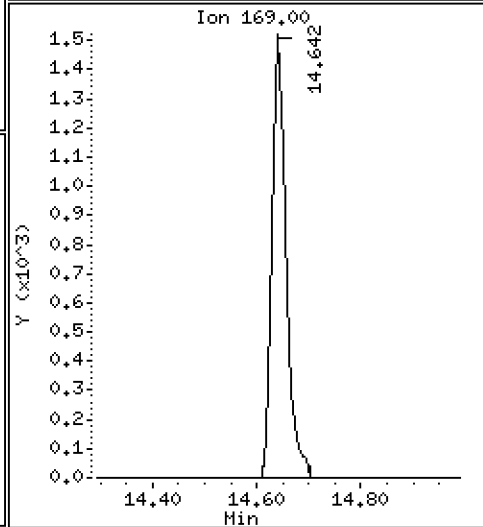
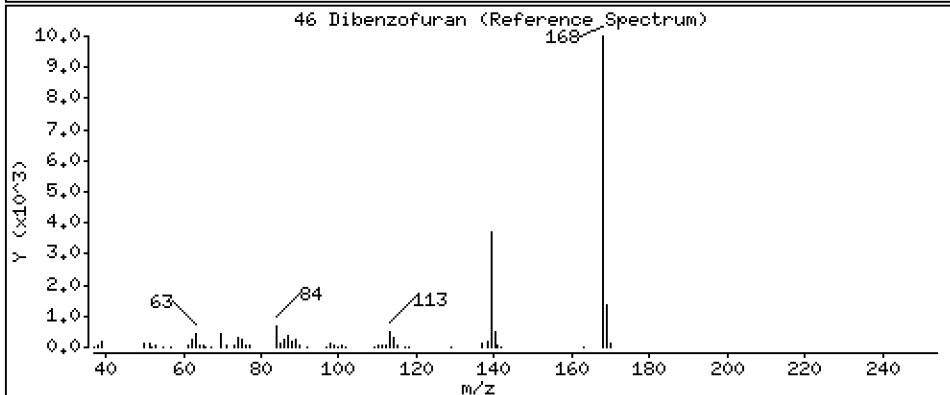
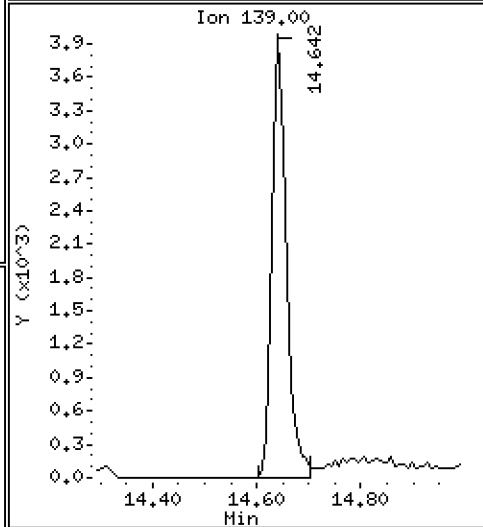
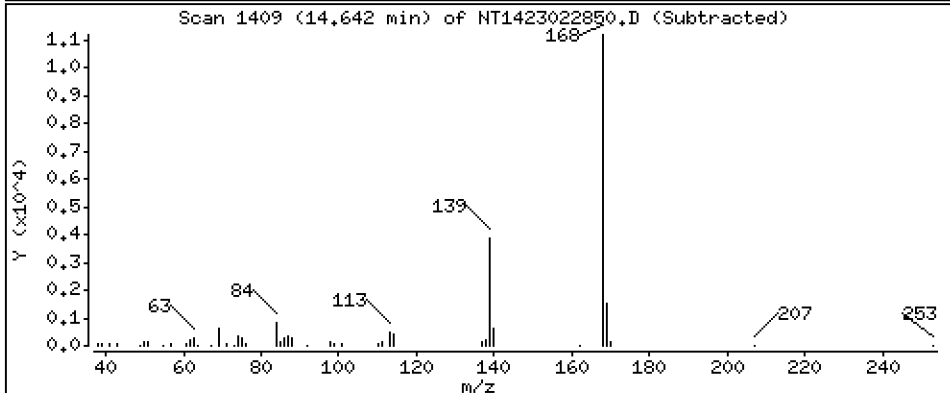
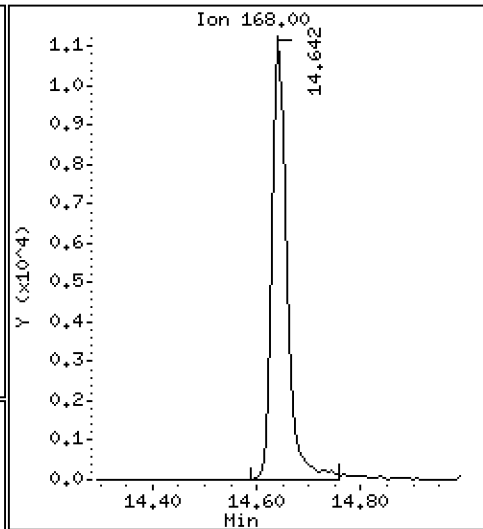
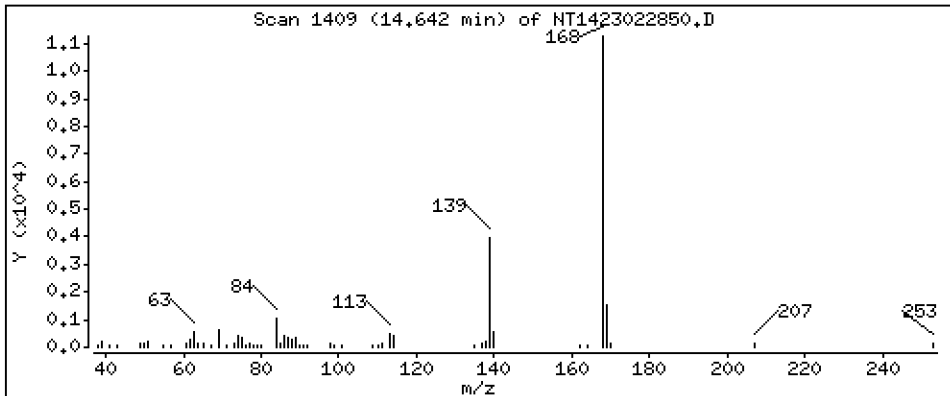
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,2001 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

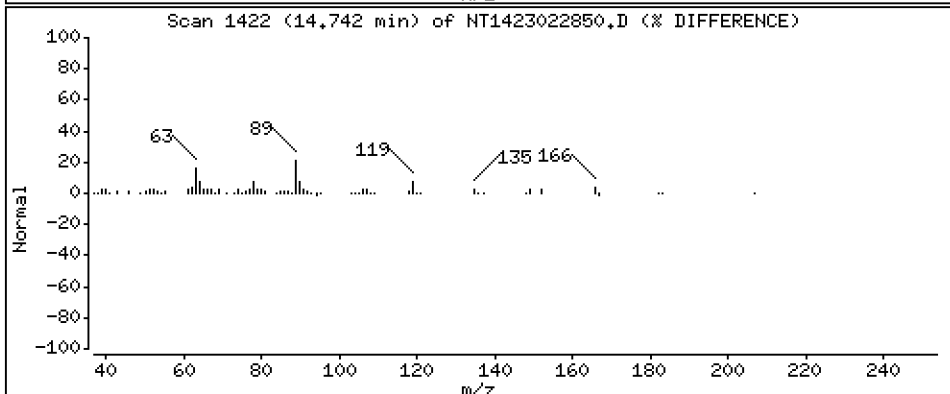
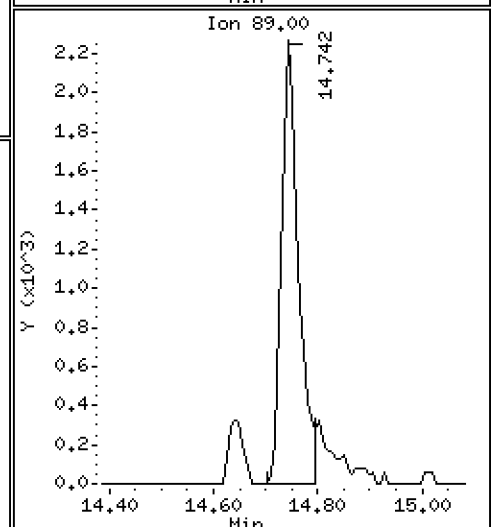
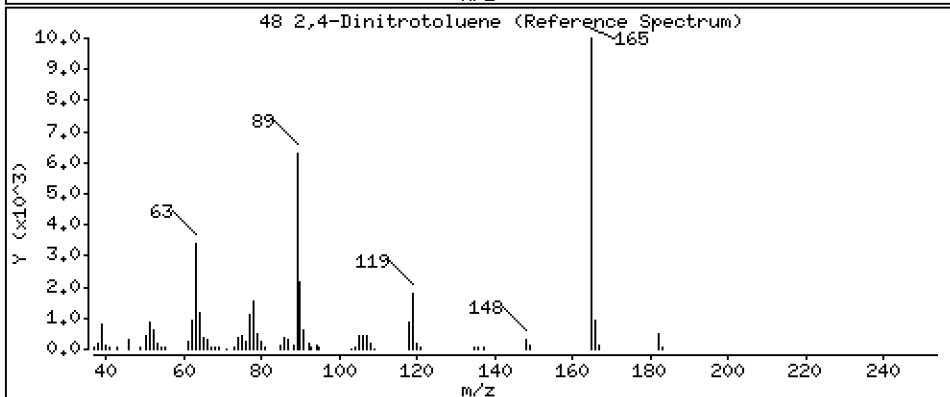
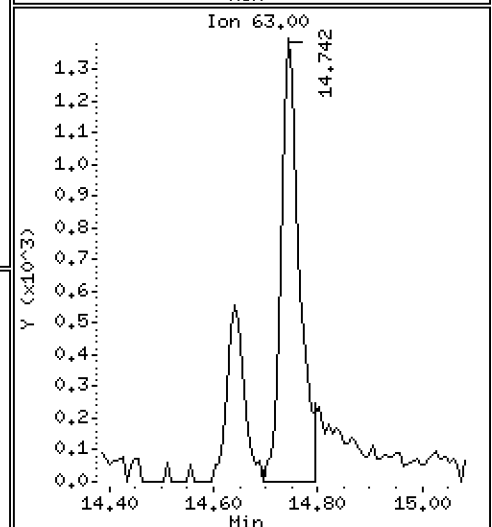
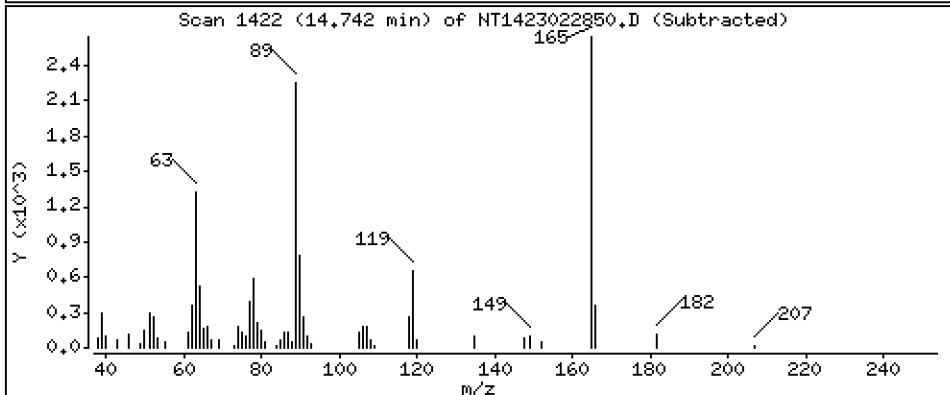
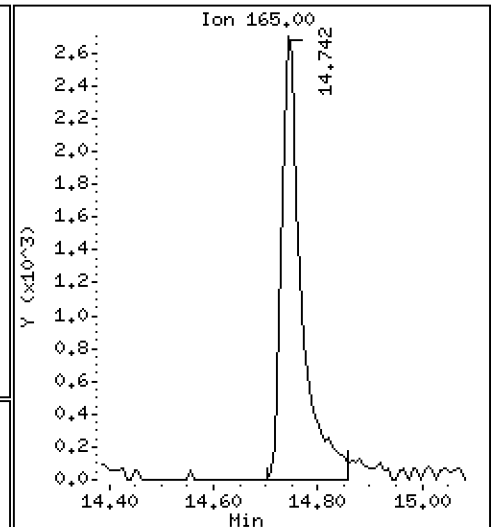
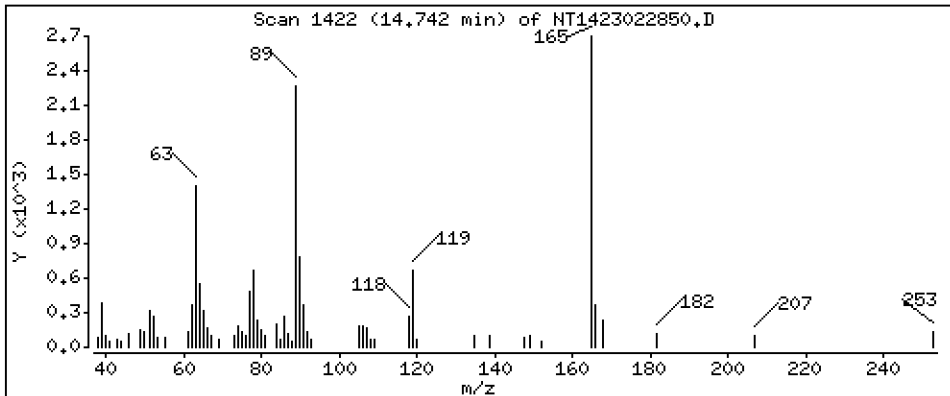
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.2942 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

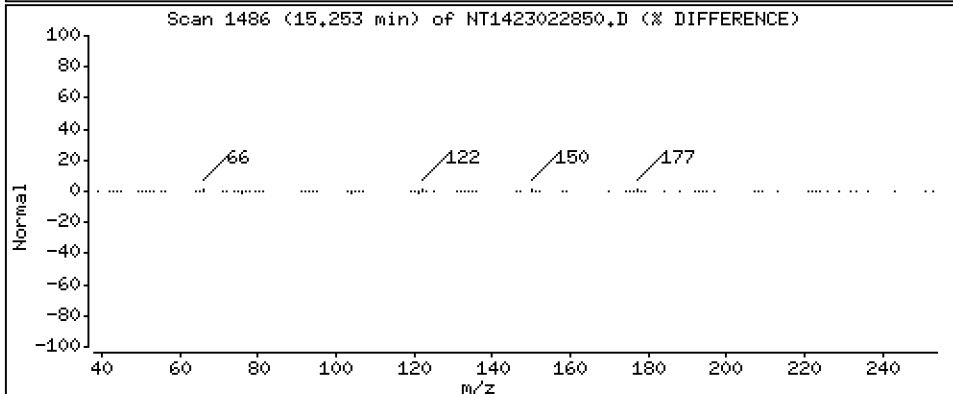
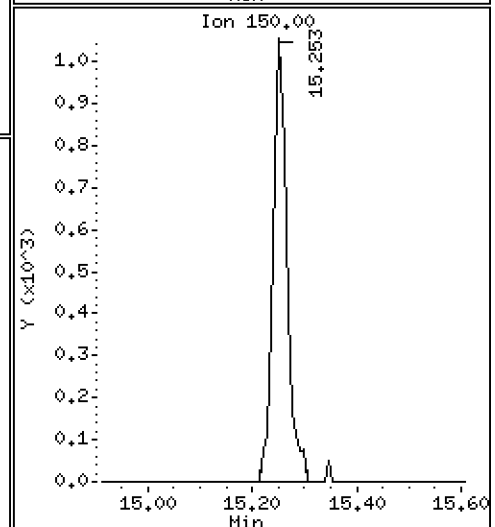
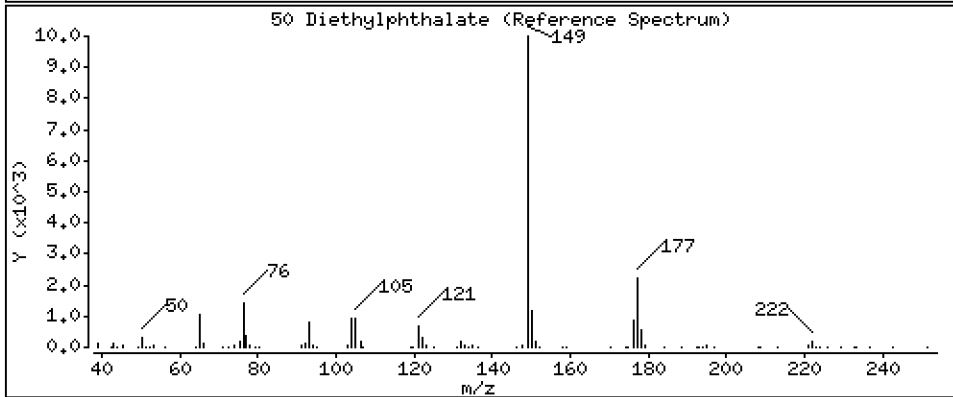
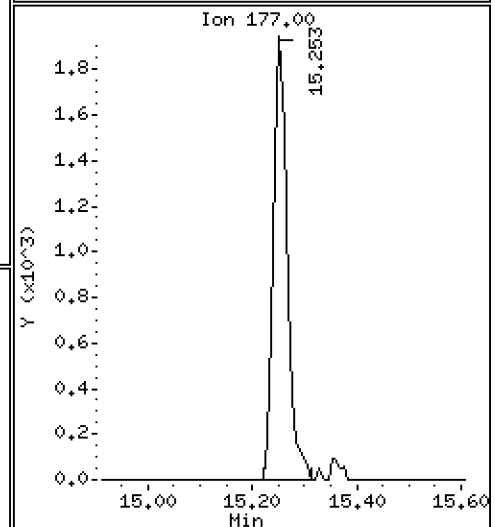
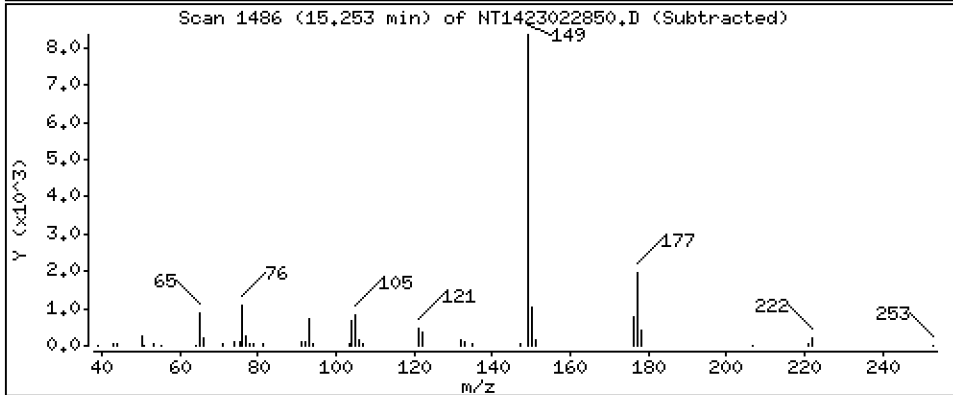
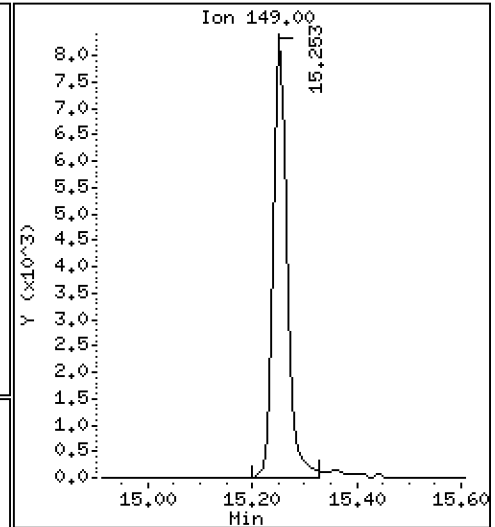
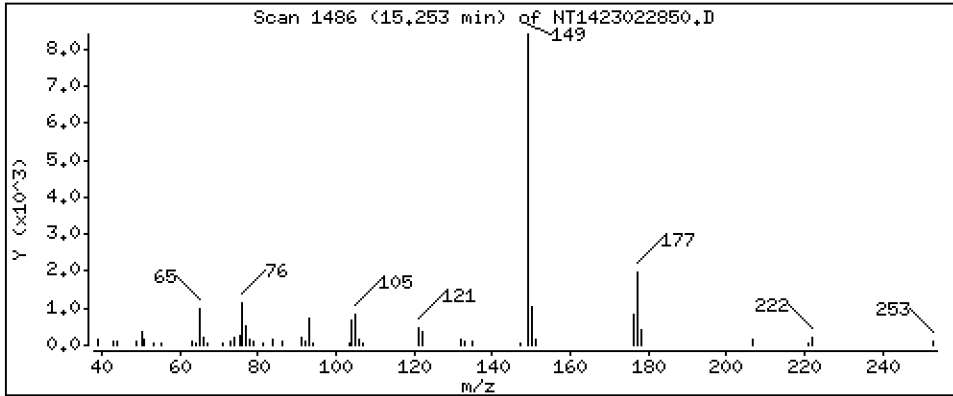
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2168 ug/mL





Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

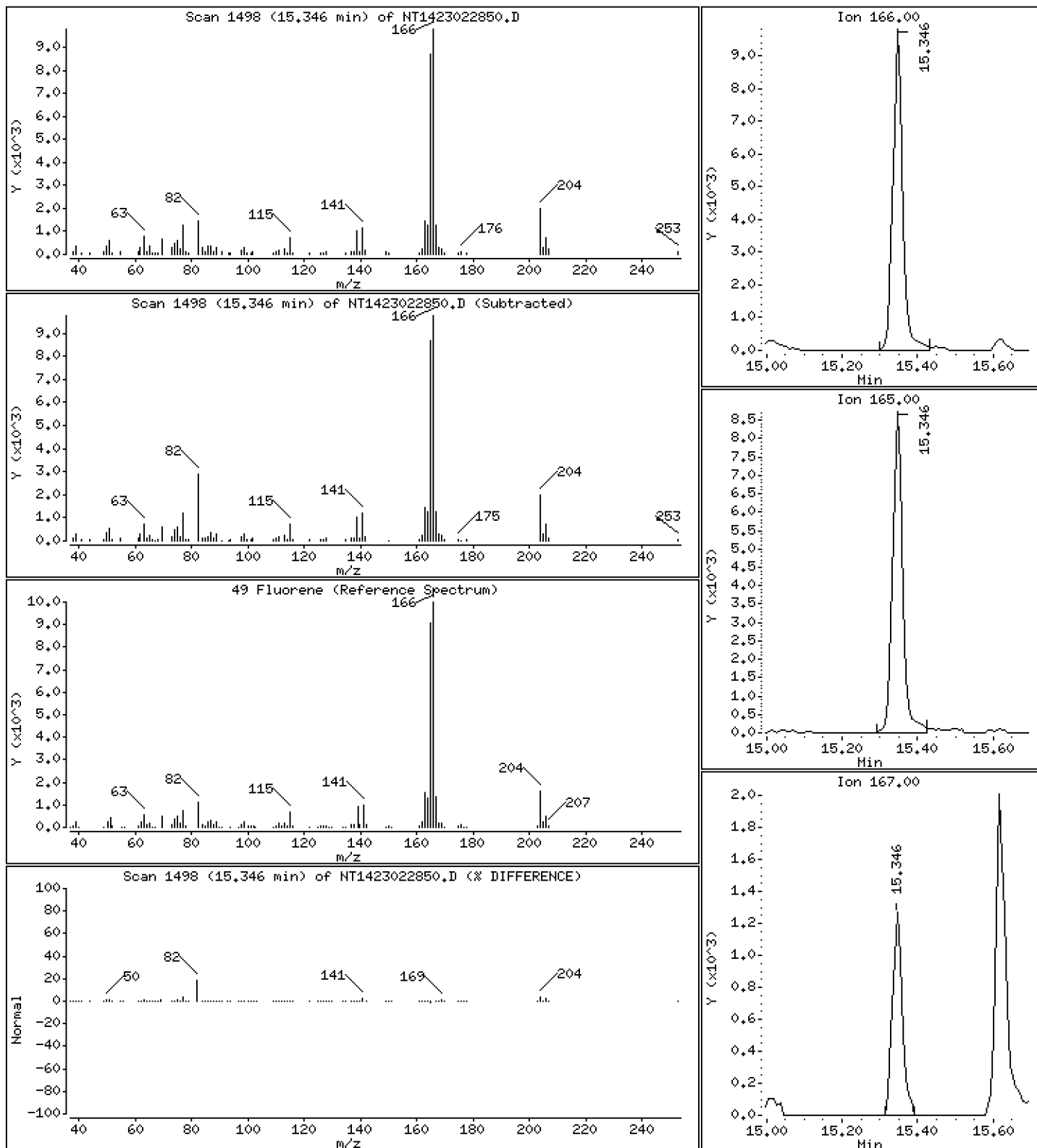
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,2121 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

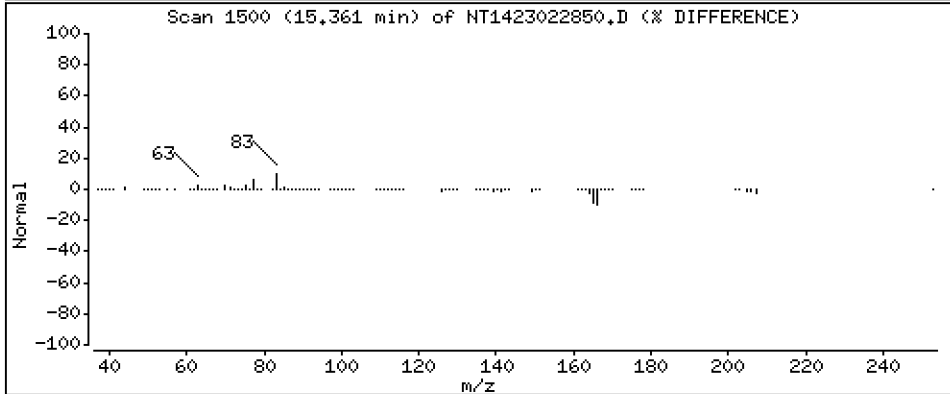
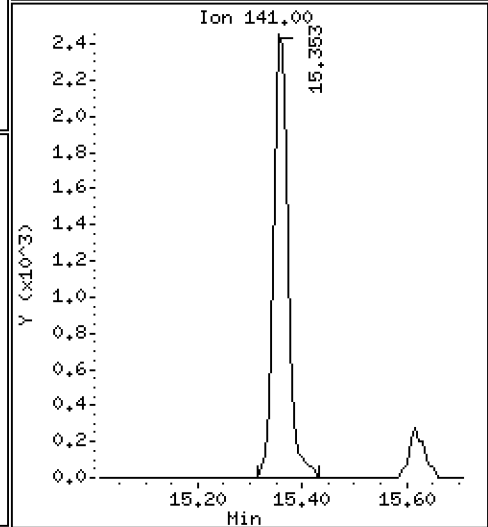
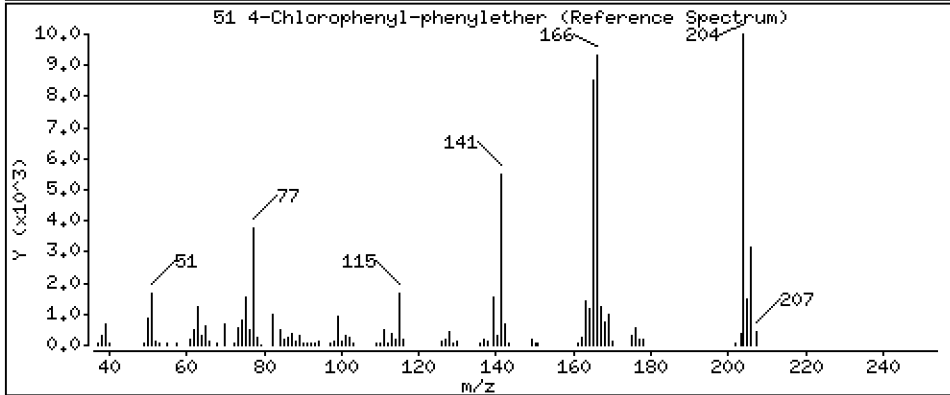
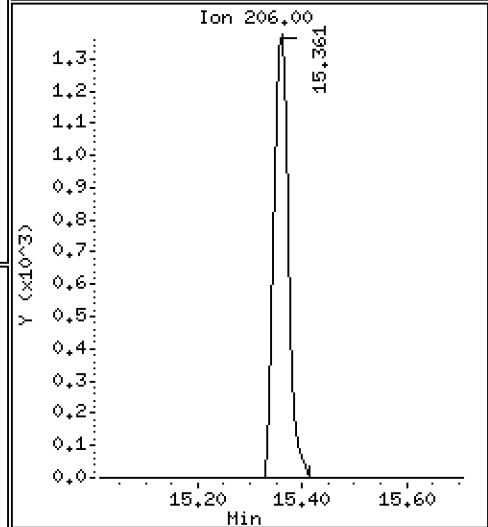
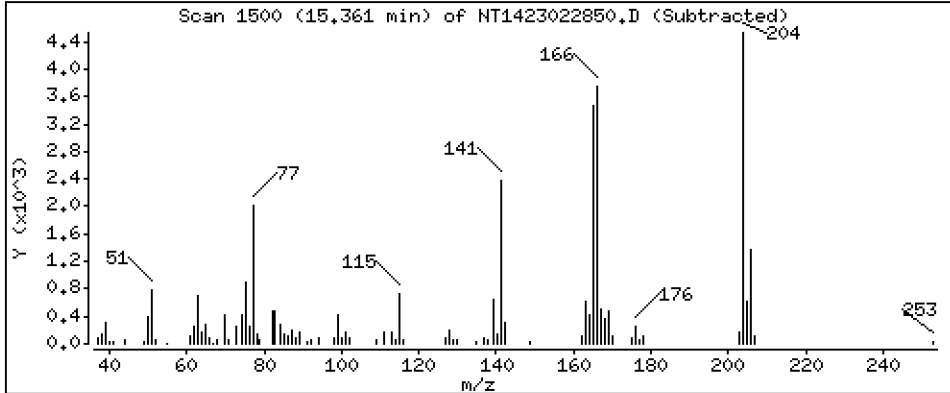
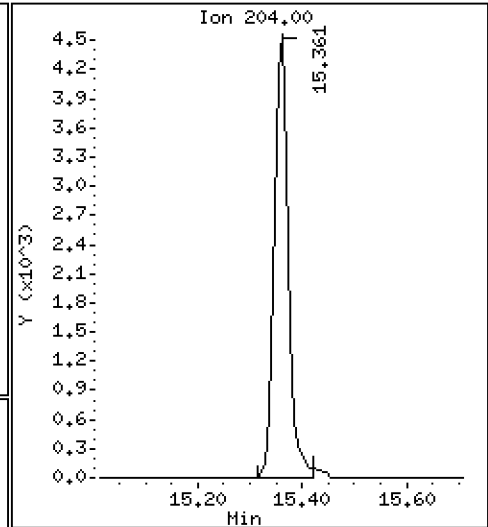
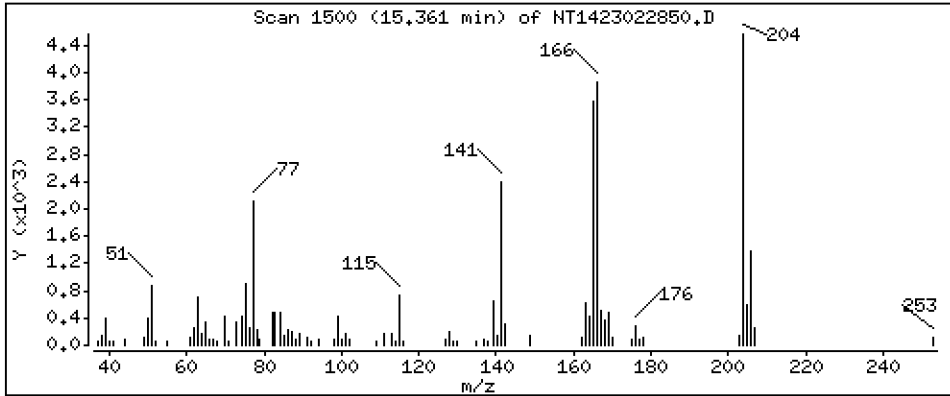
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,1961 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

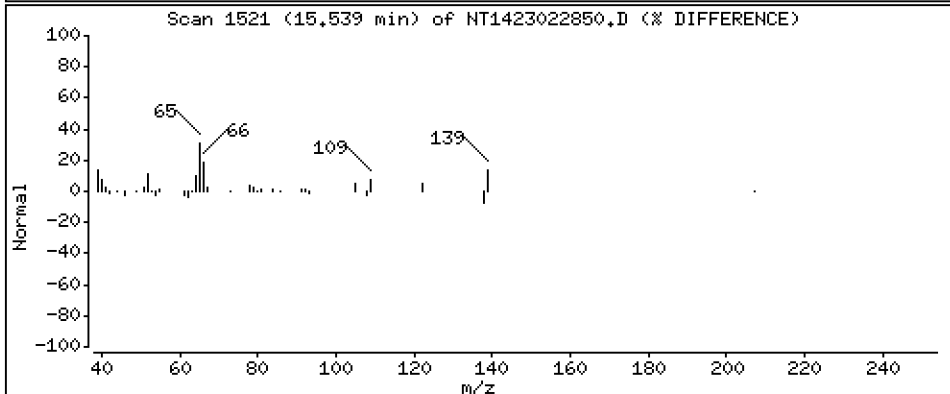
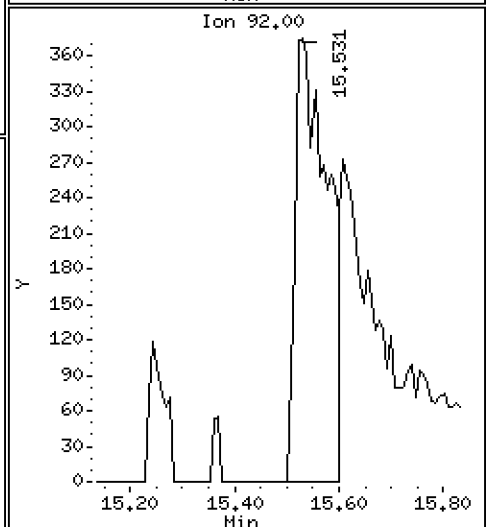
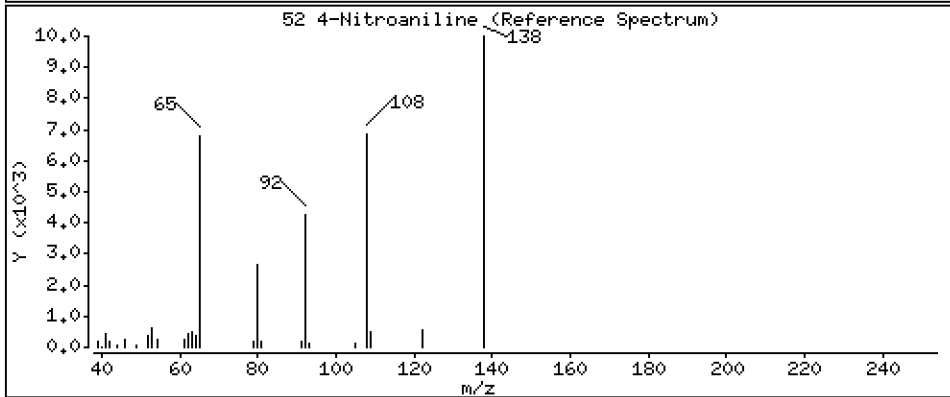
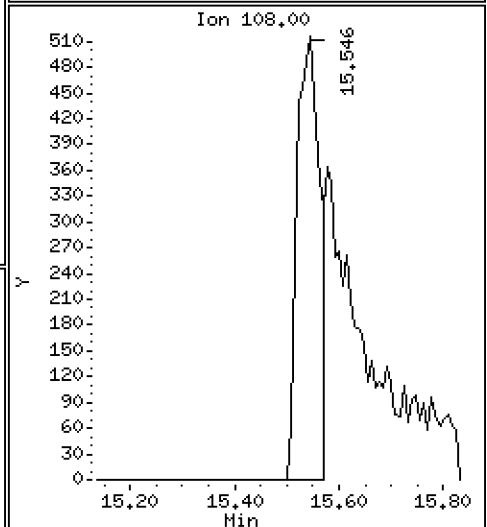
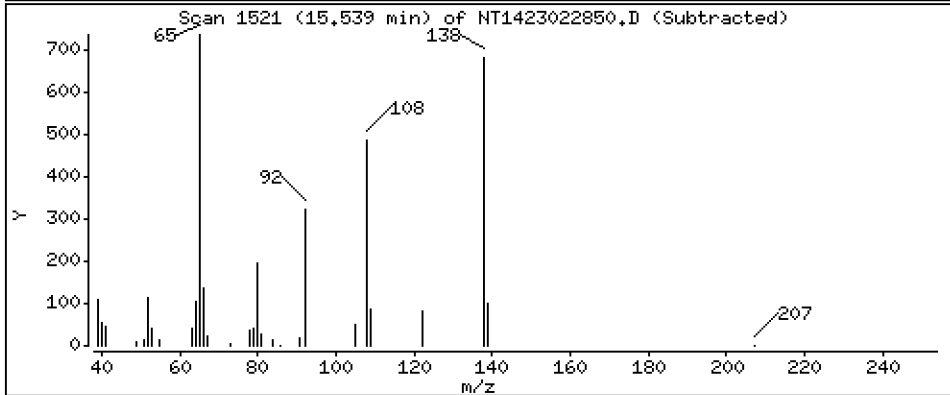
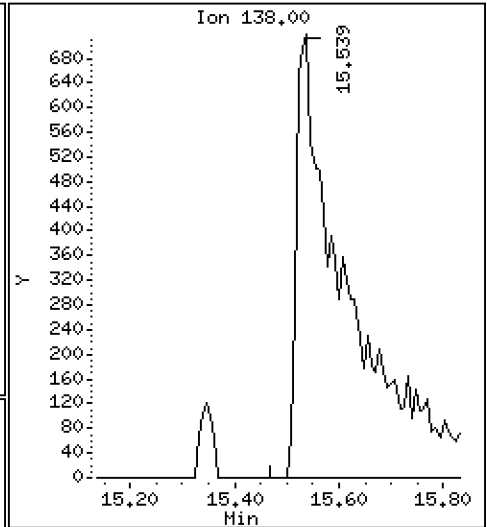
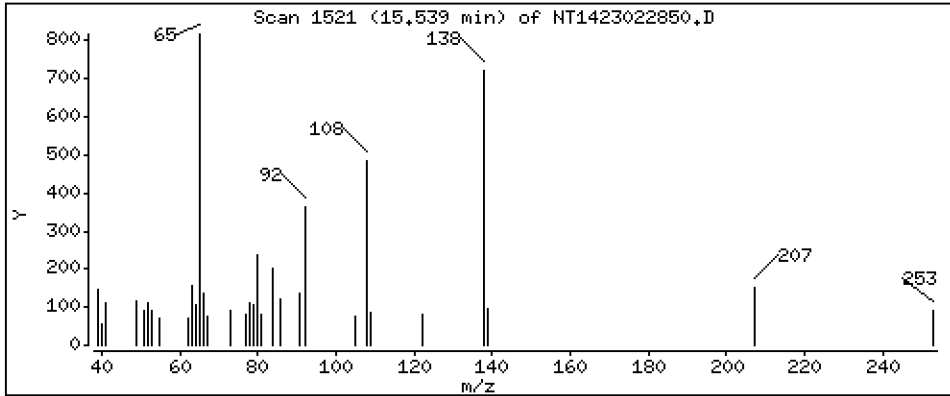
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,2914 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

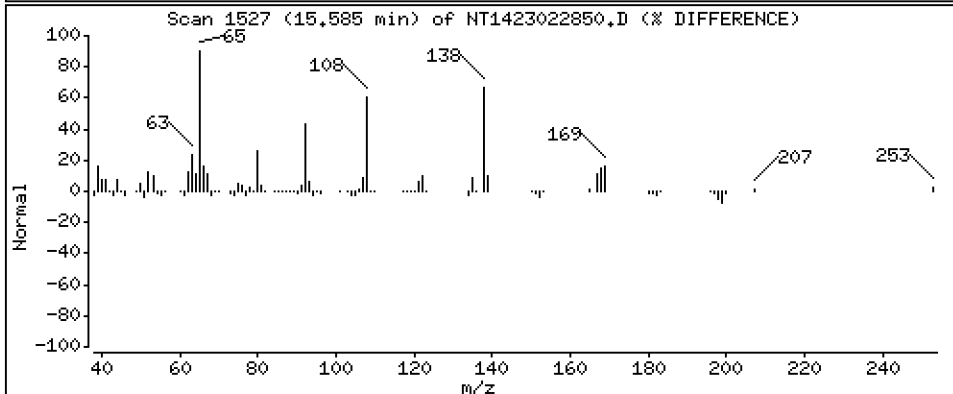
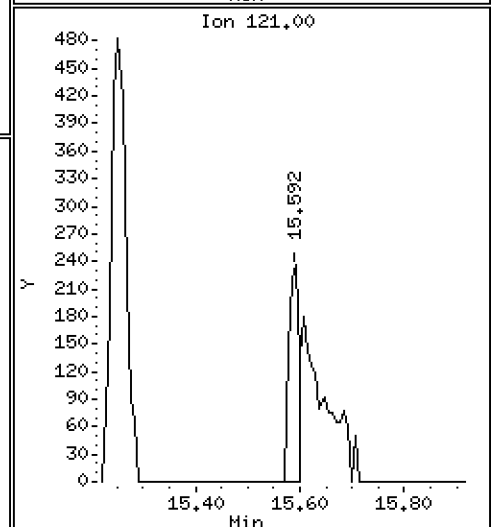
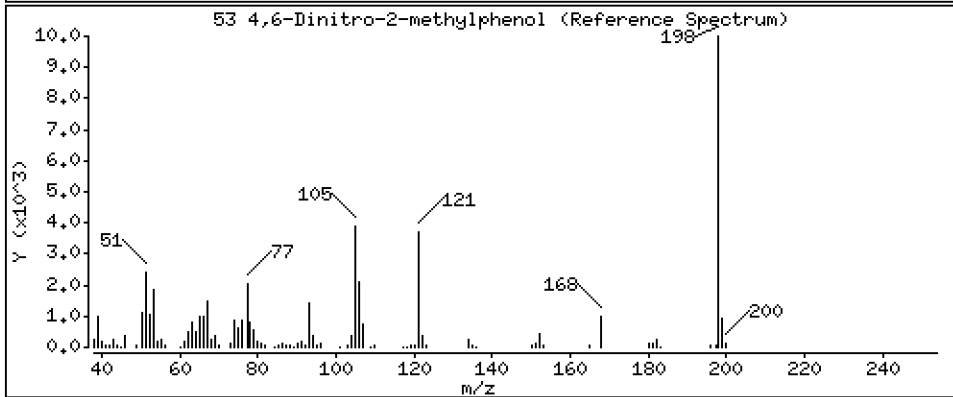
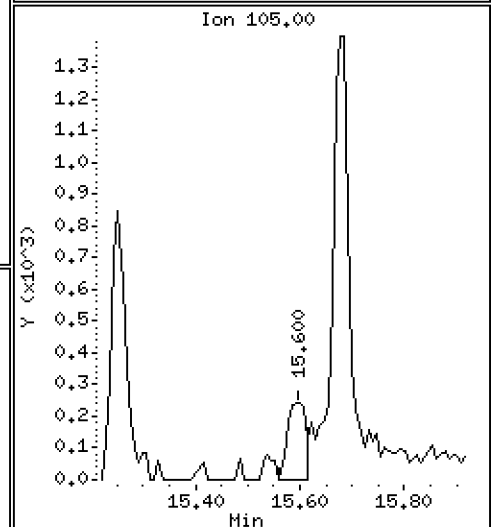
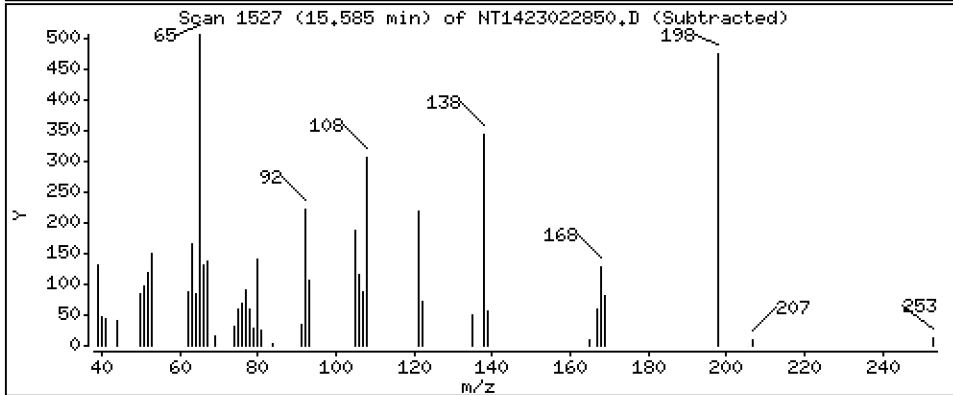
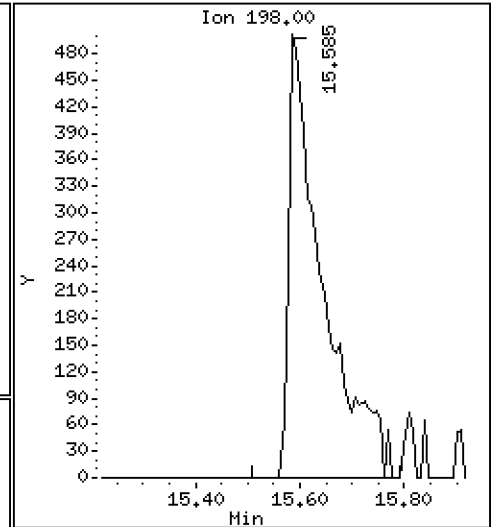
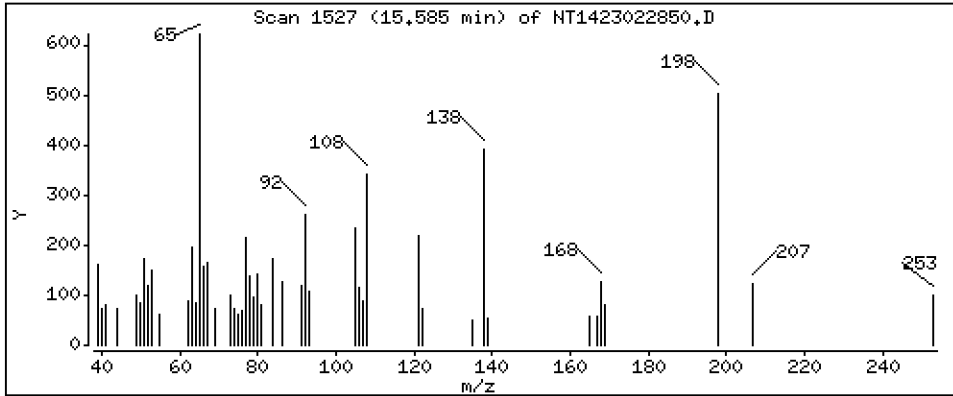
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 0.1648 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

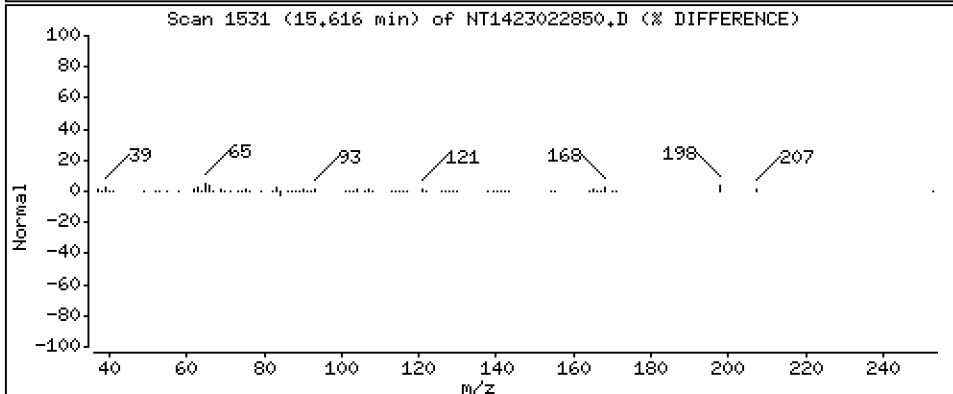
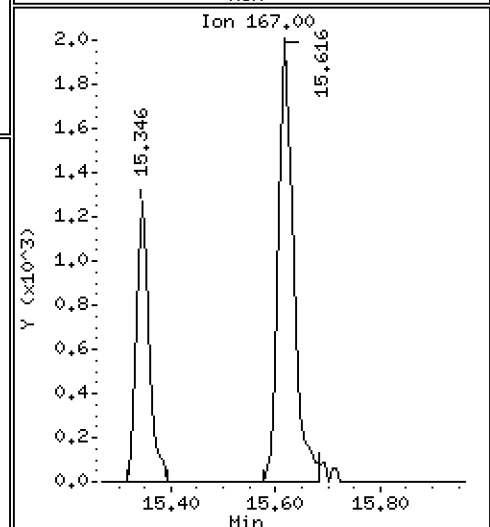
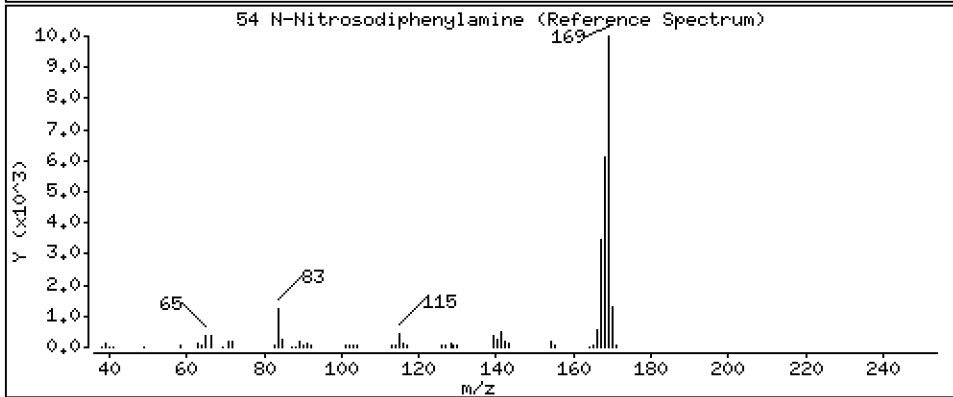
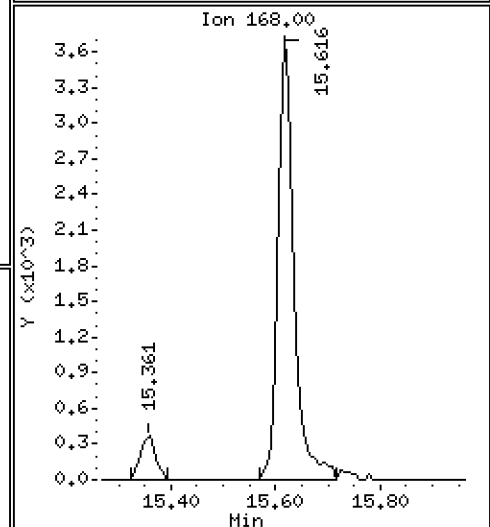
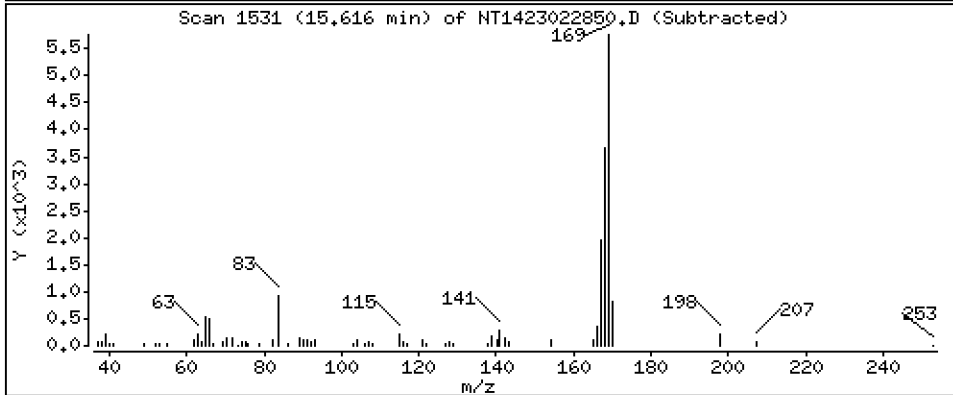
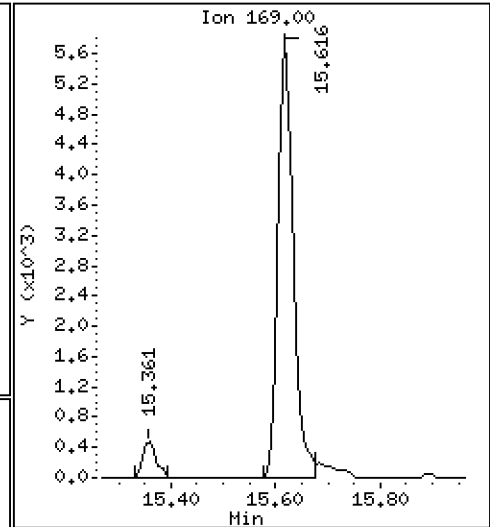
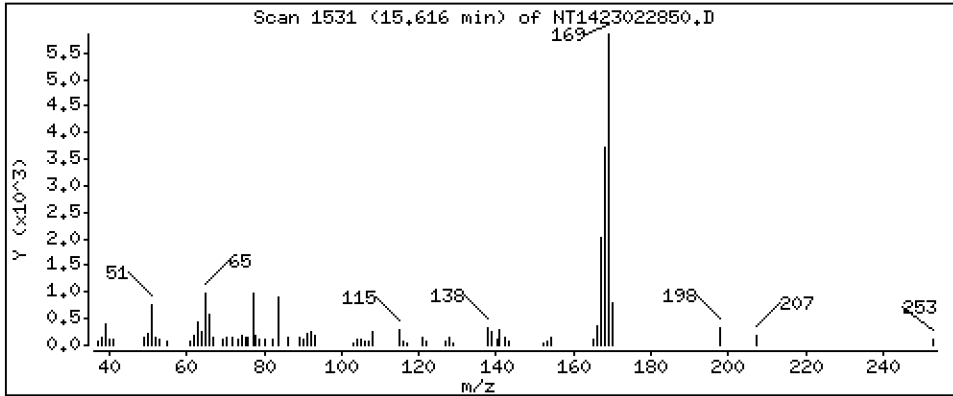
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,2165 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

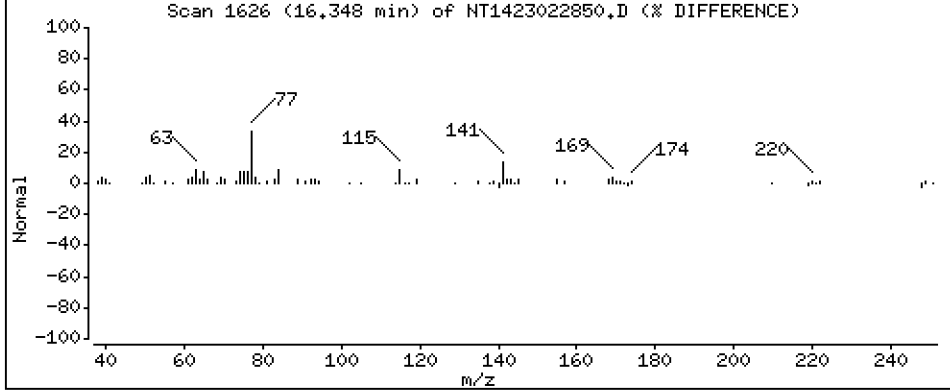
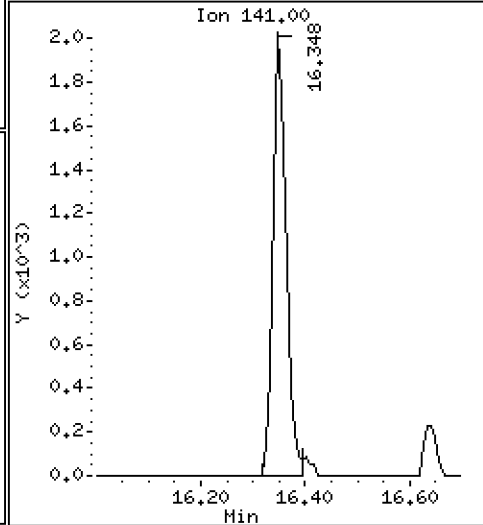
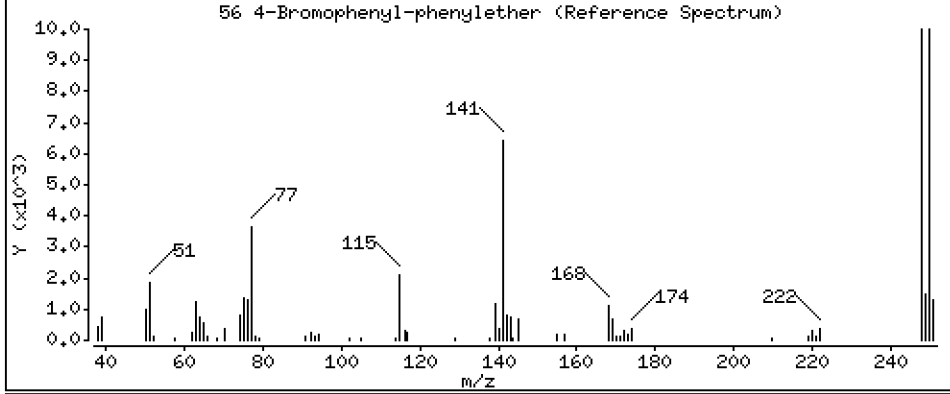
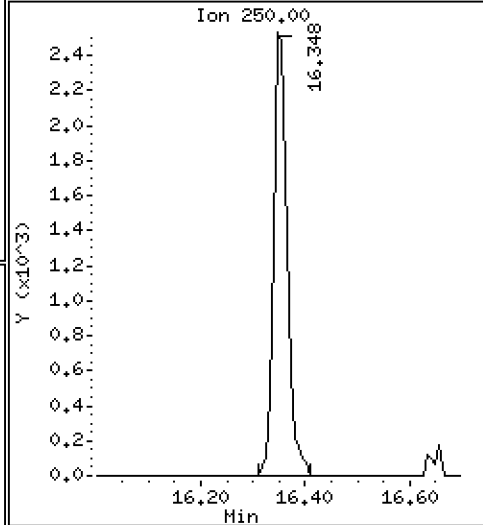
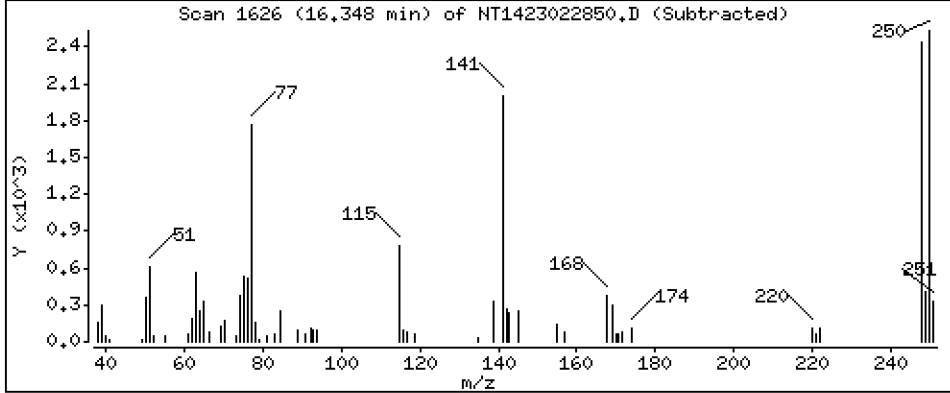
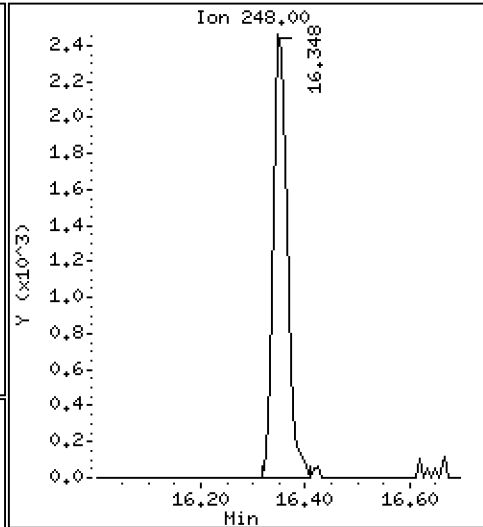
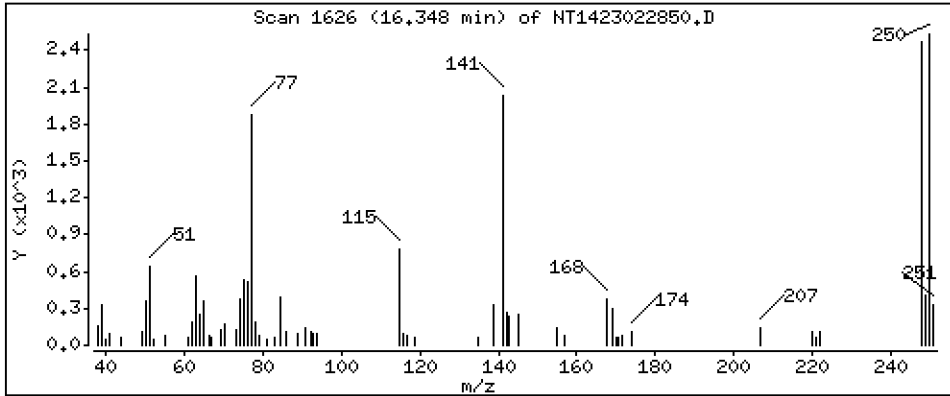
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,1925 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

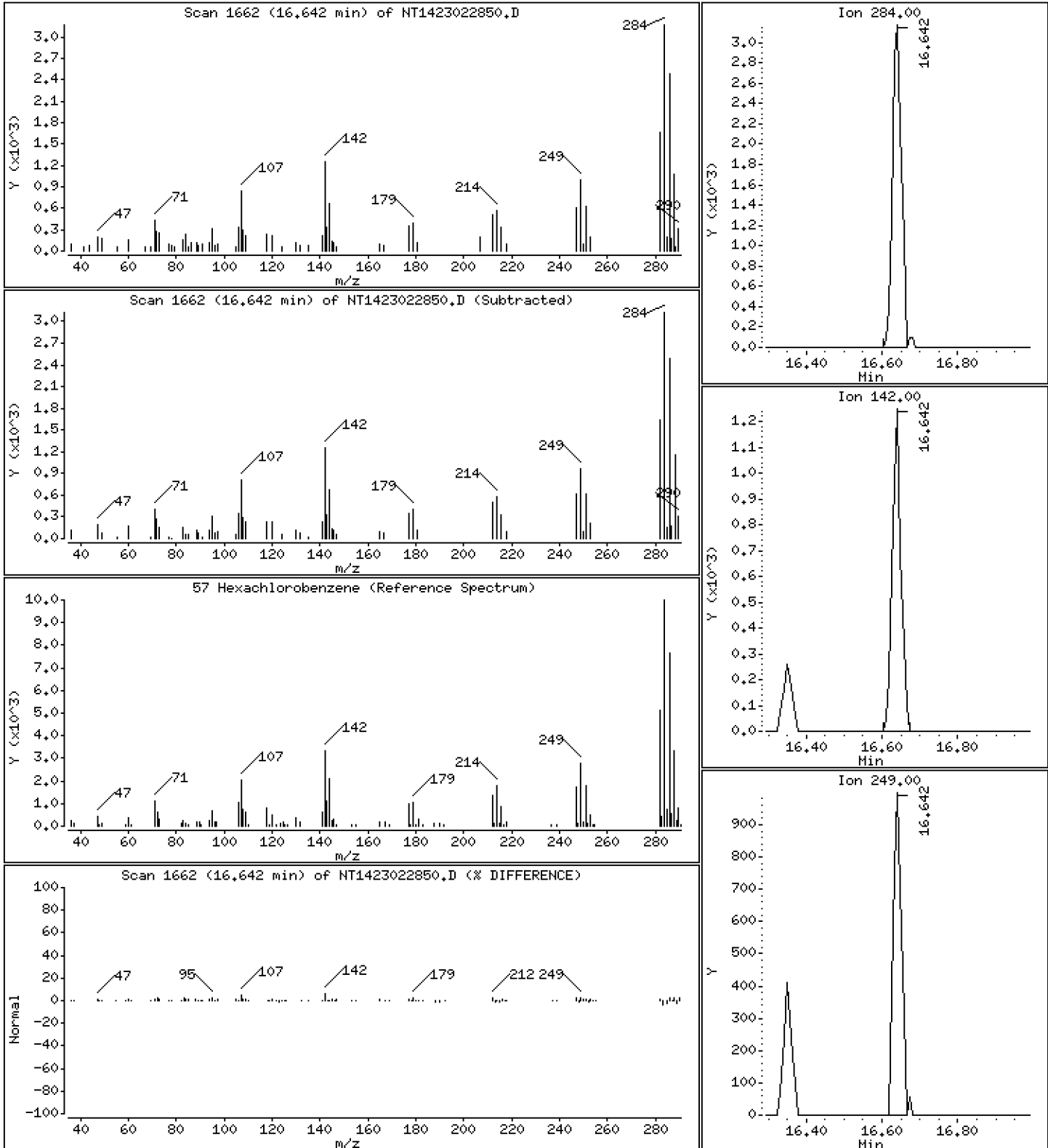
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 0.2014 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

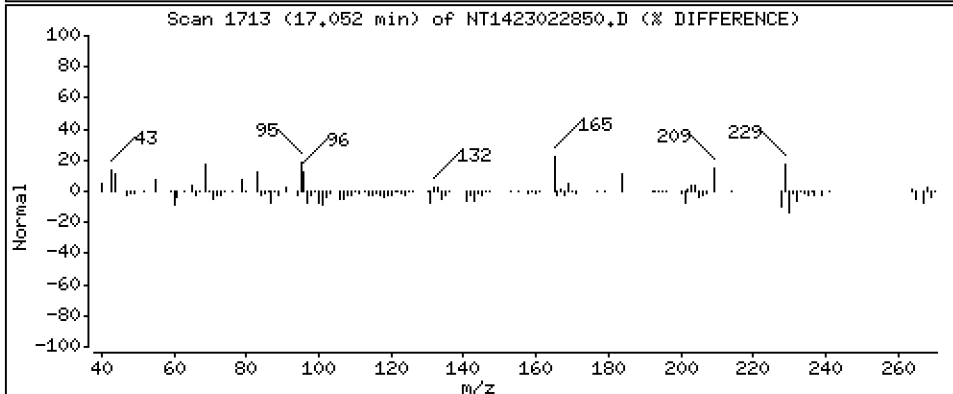
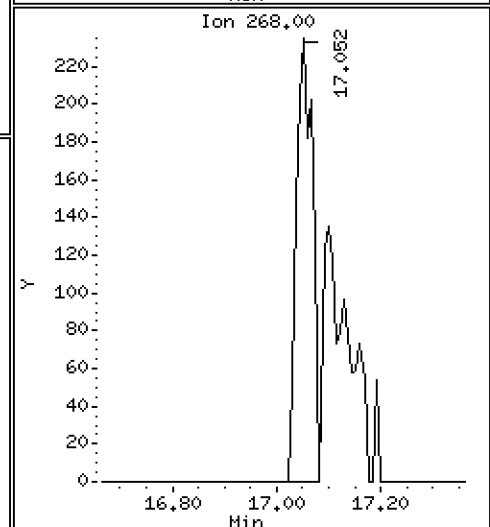
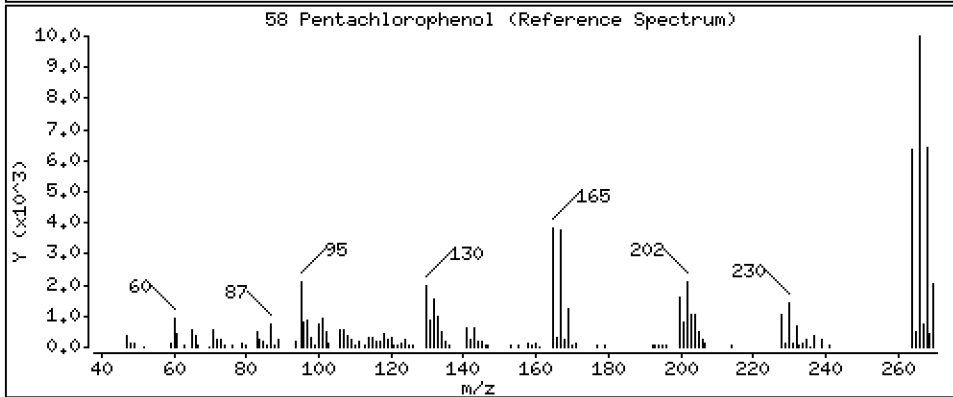
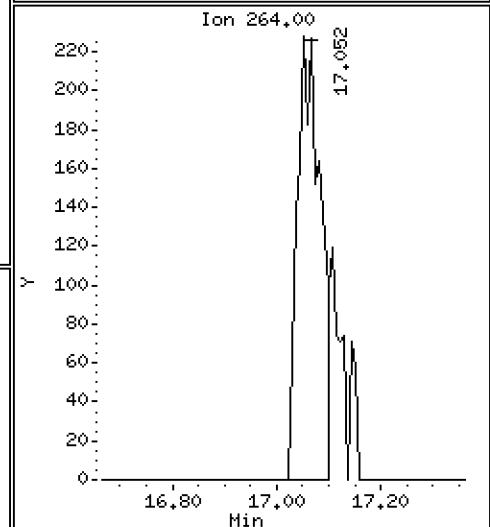
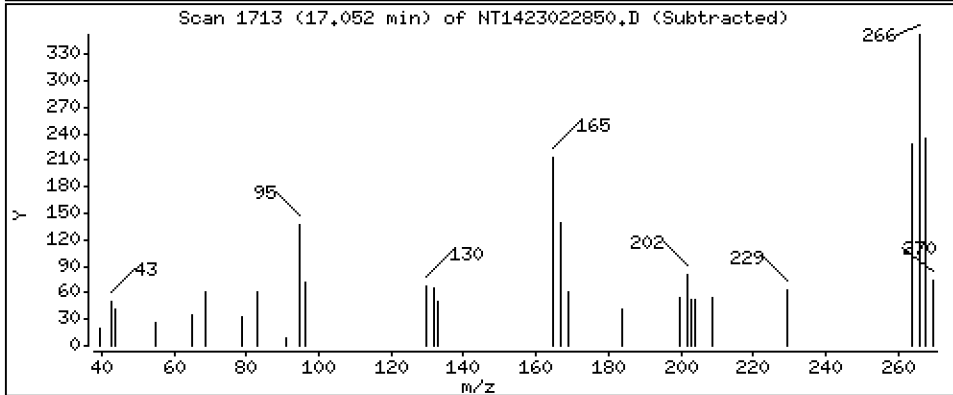
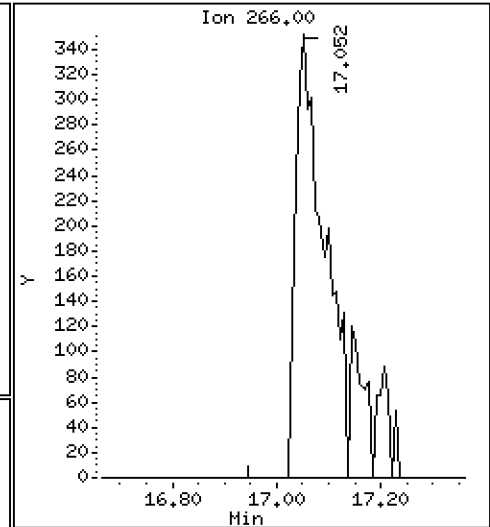
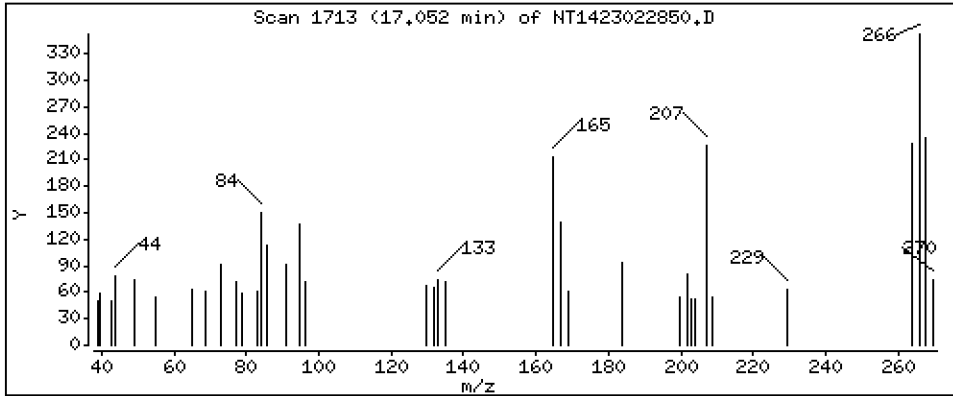
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,1450 ug/mL





Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

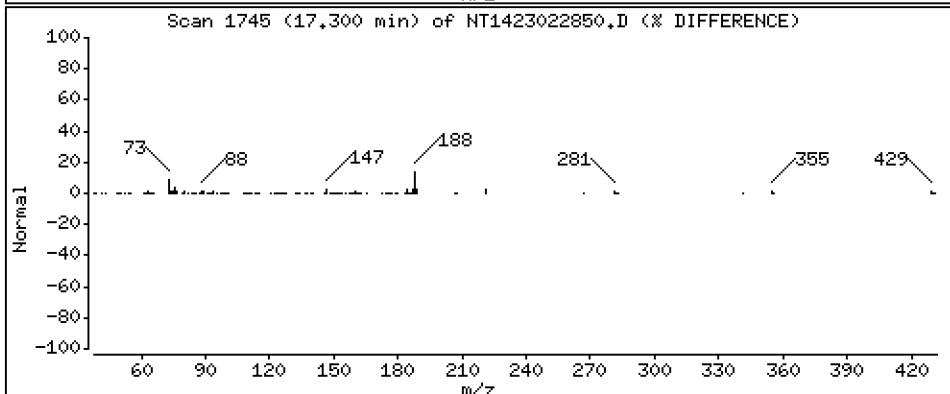
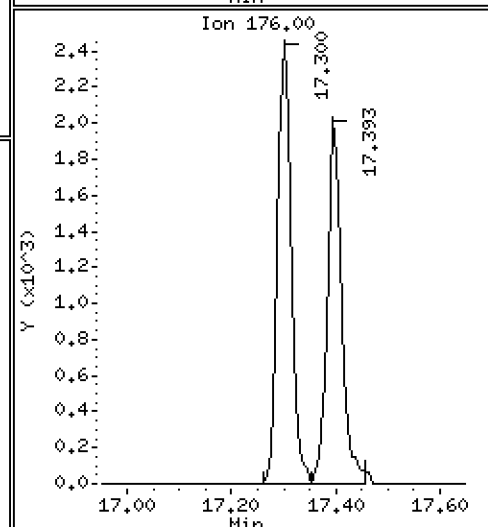
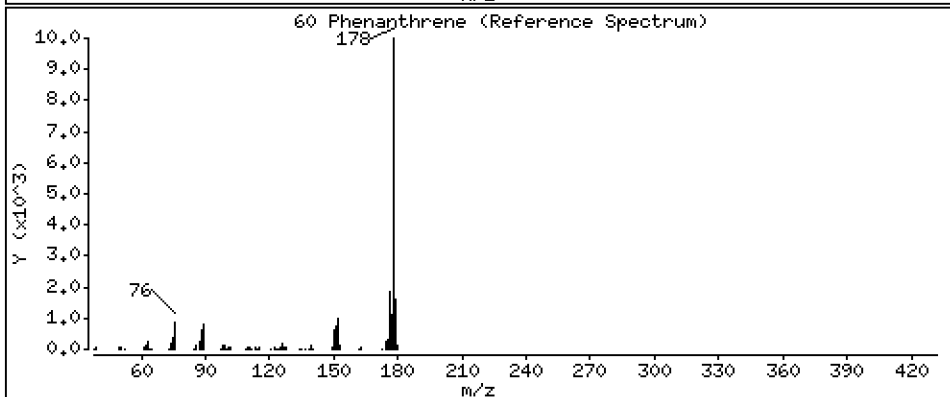
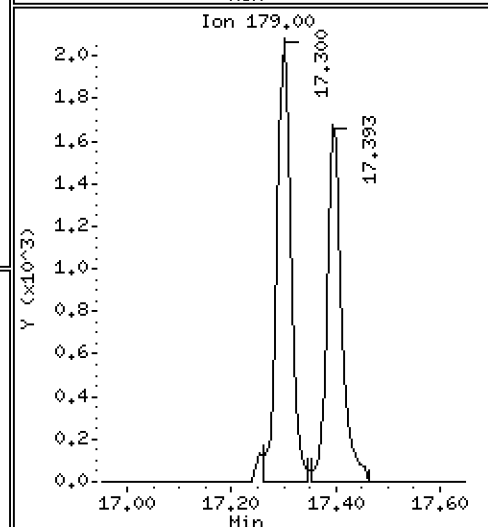
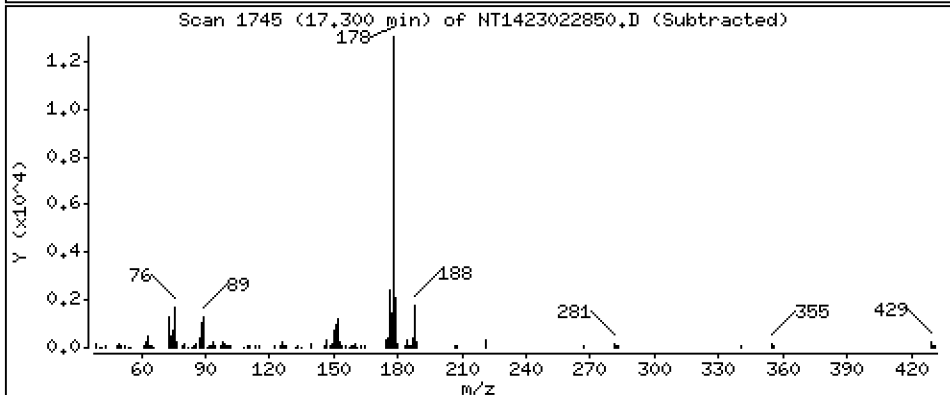
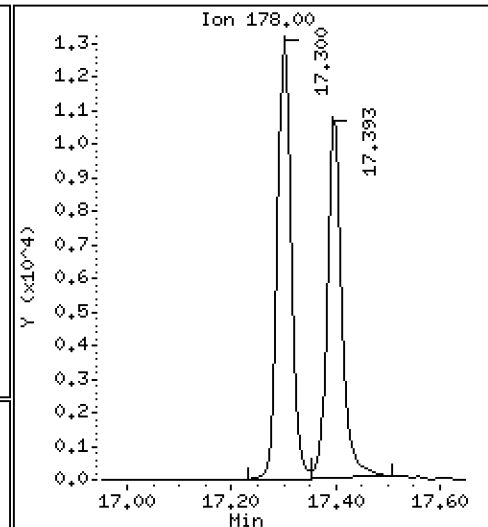
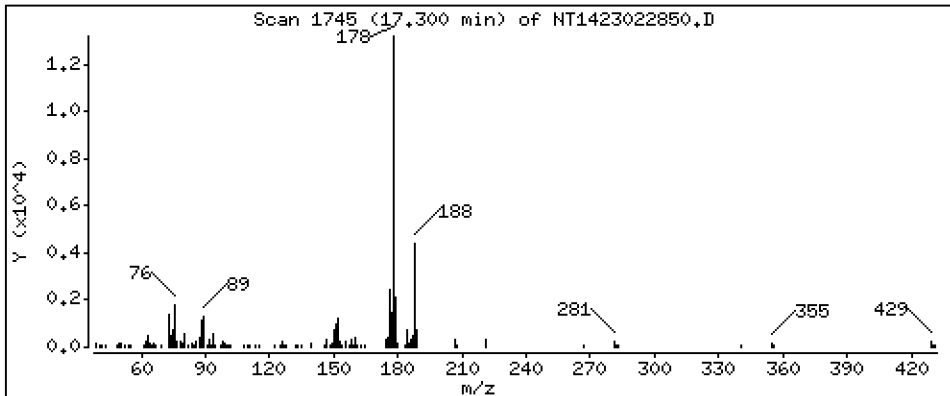
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 0.2104 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

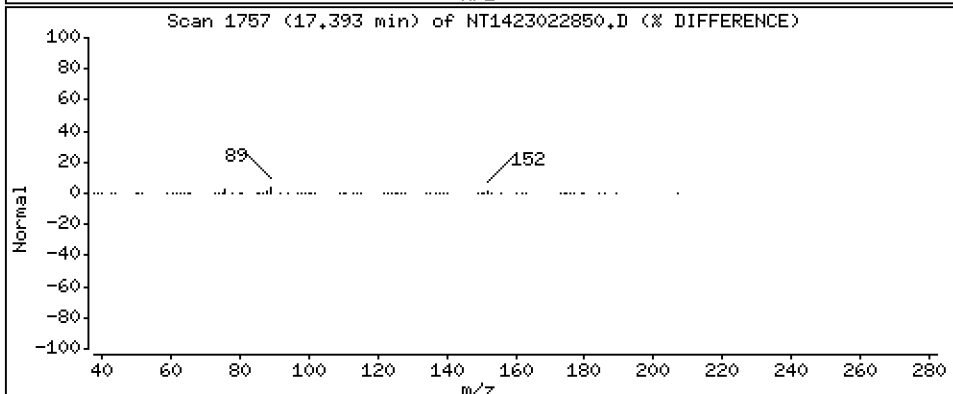
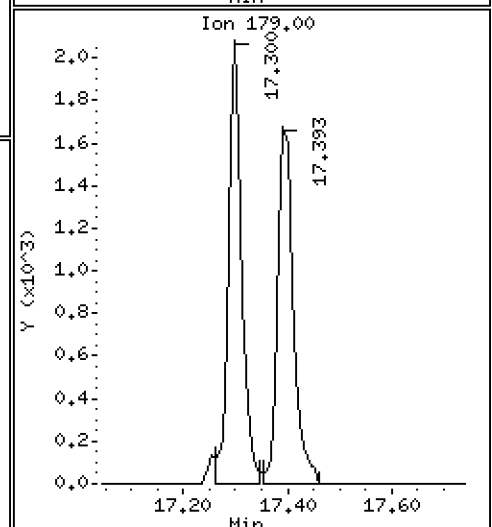
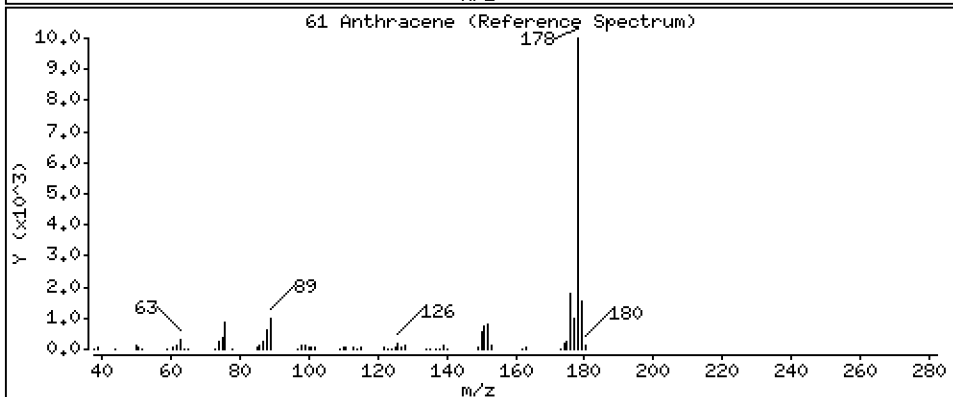
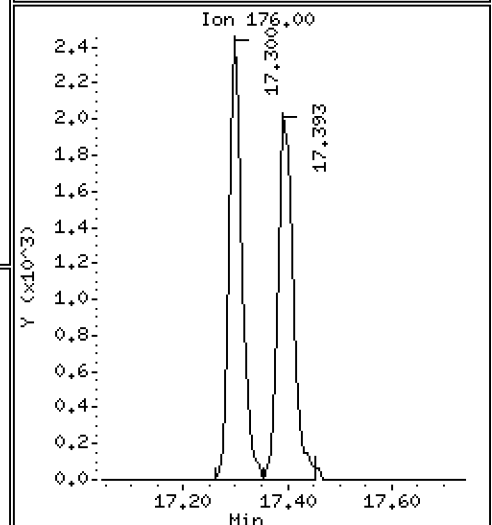
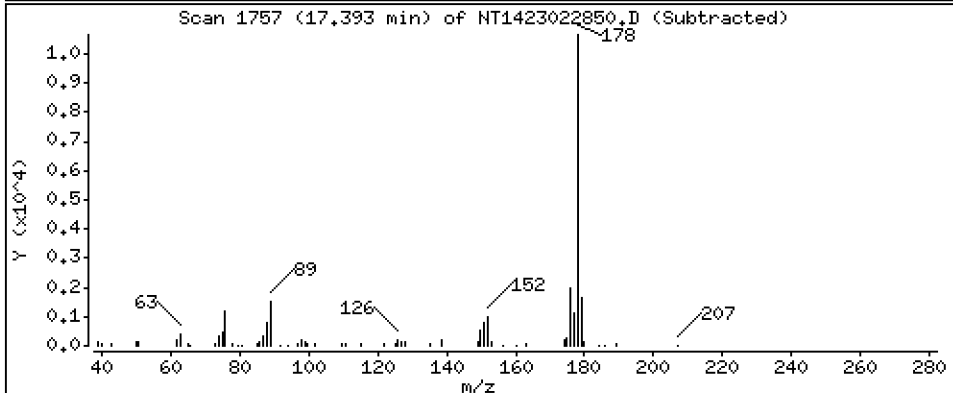
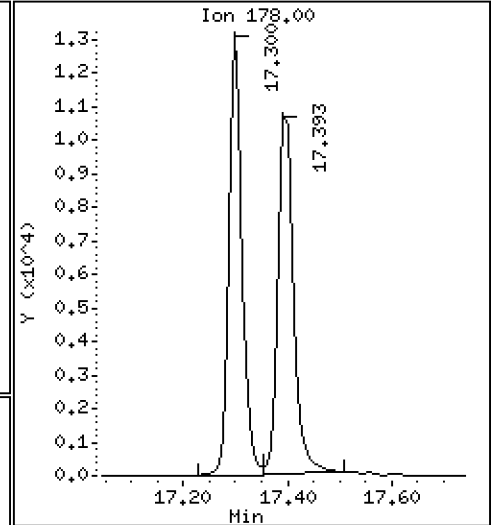
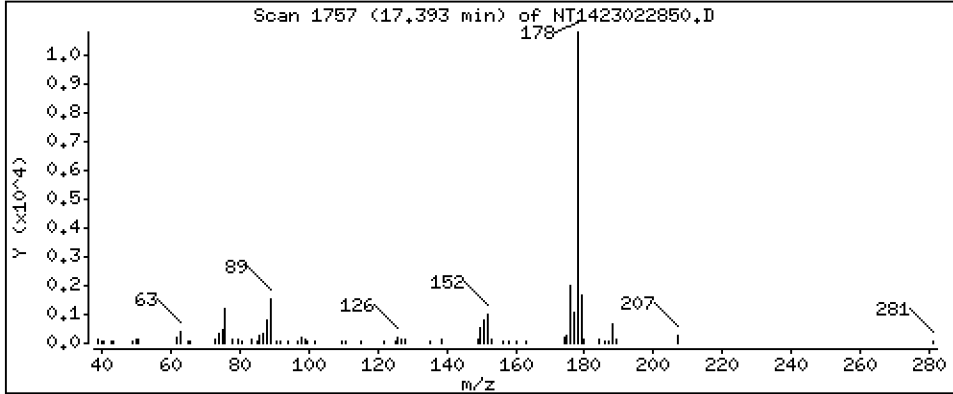
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2047 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

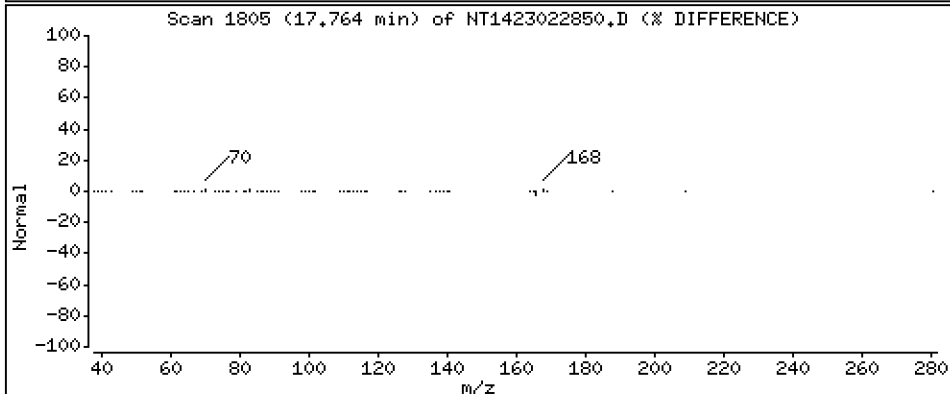
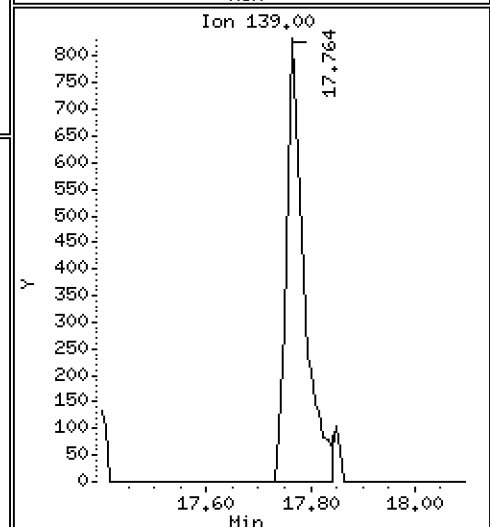
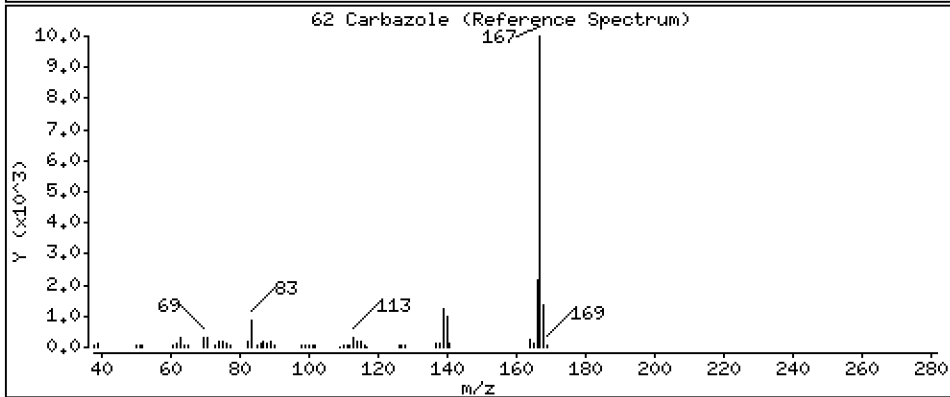
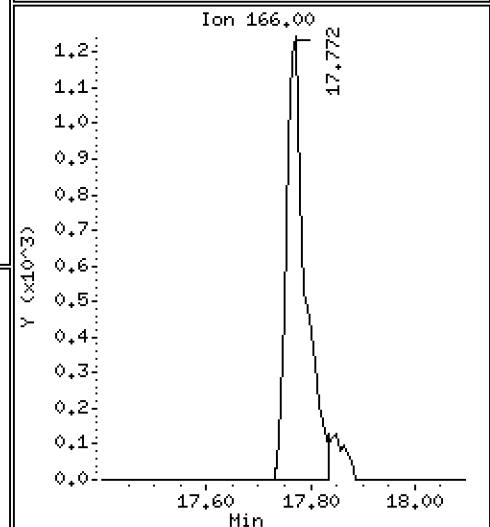
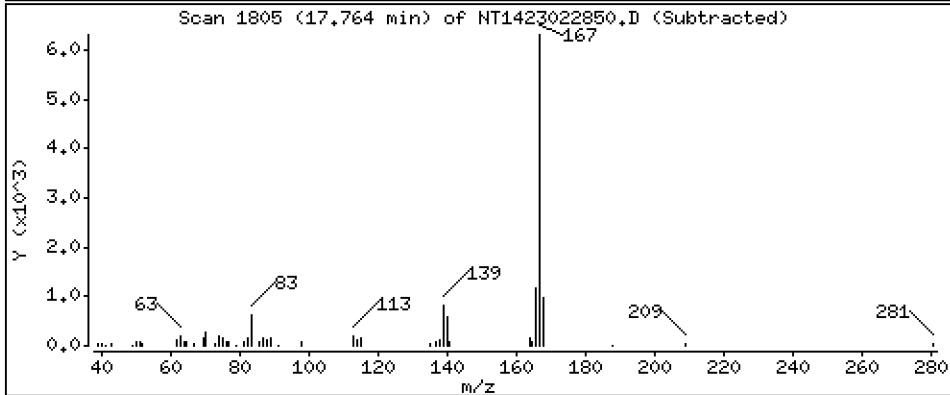
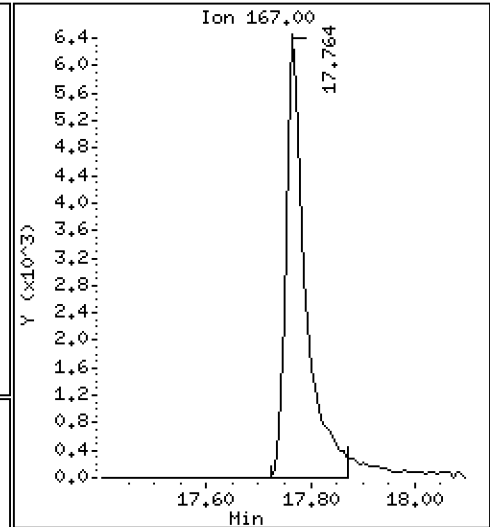
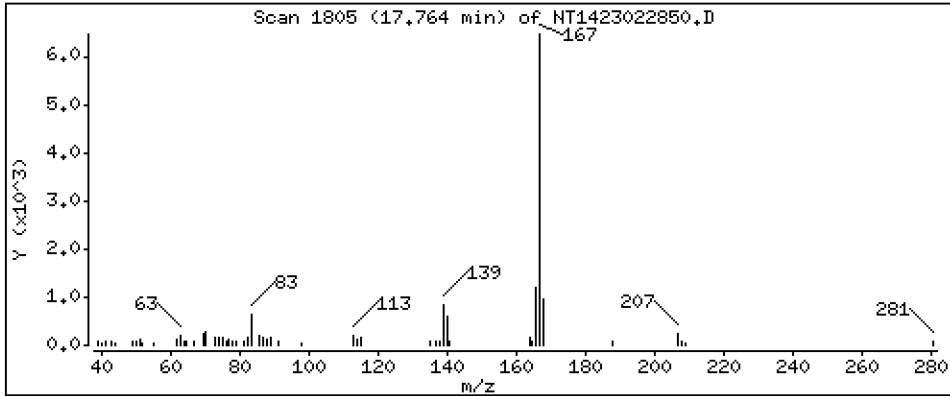
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1876 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

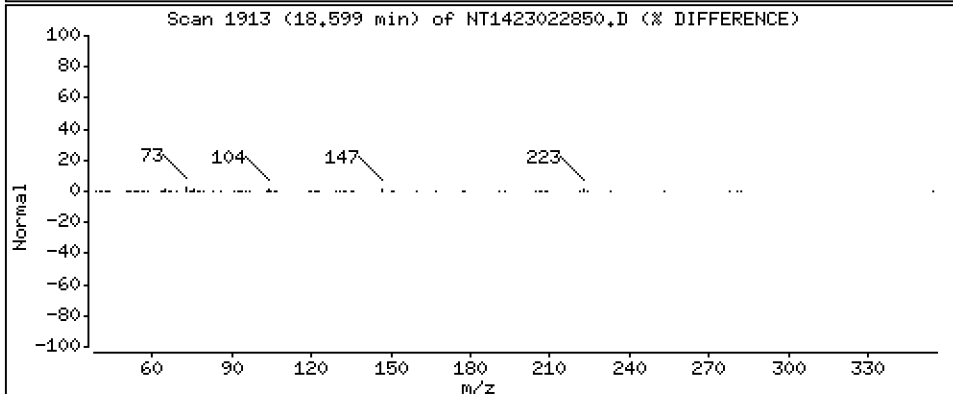
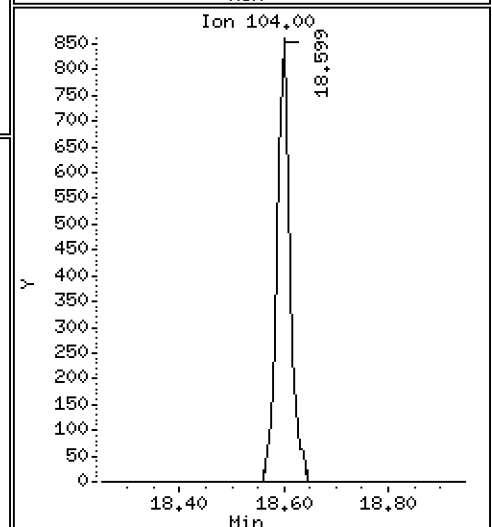
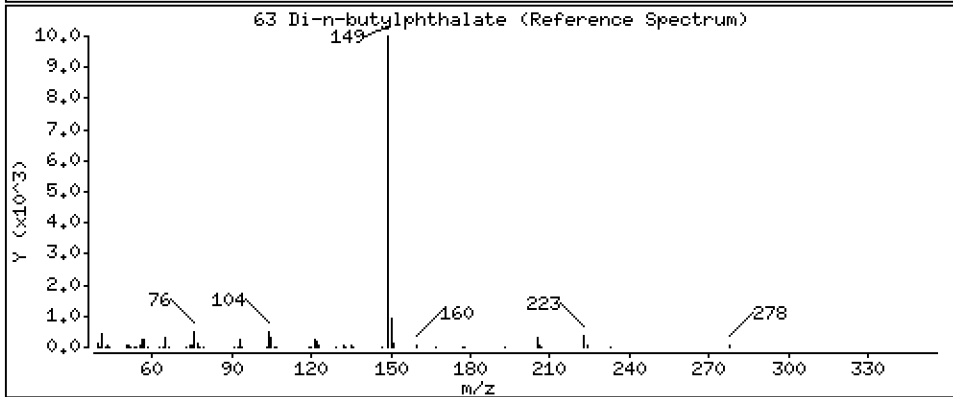
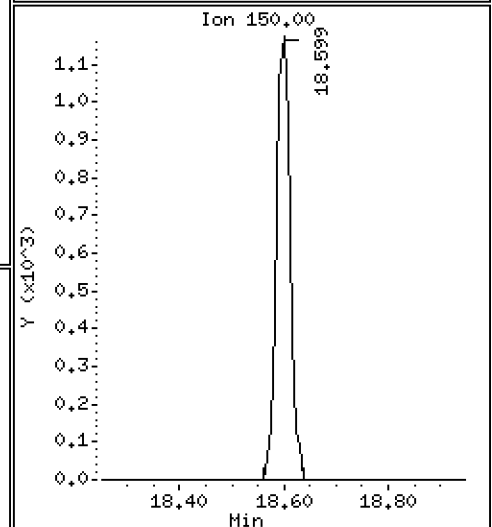
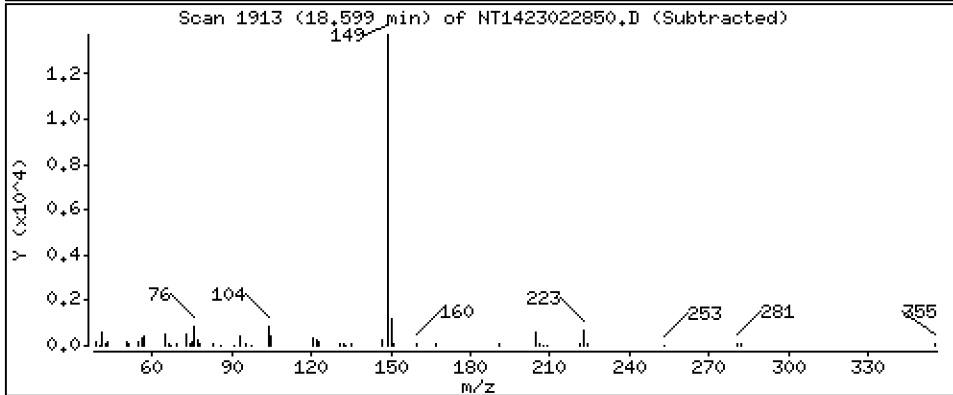
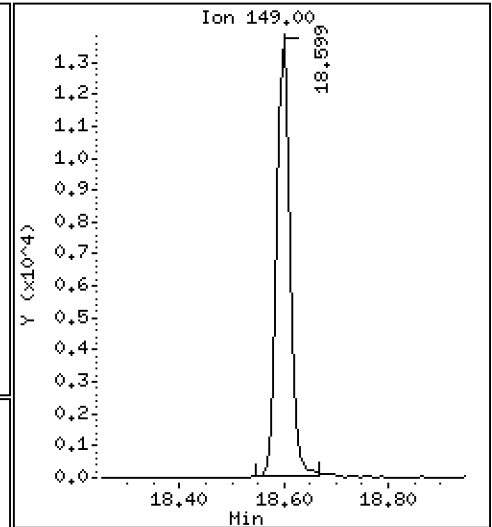
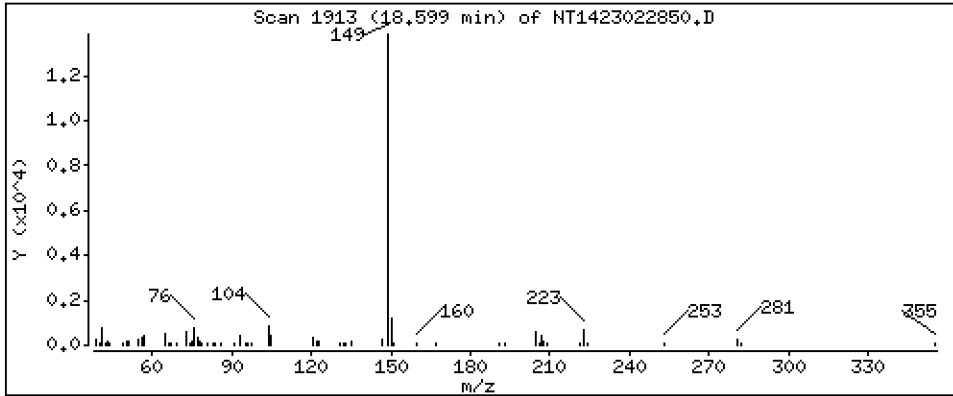
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,1934 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

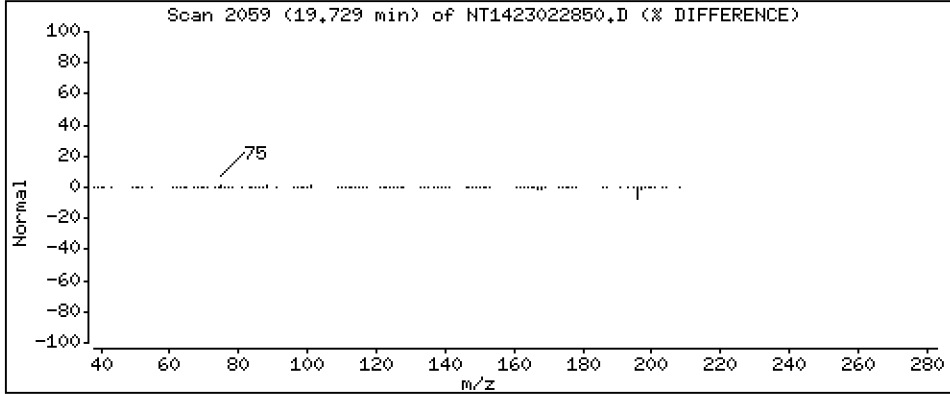
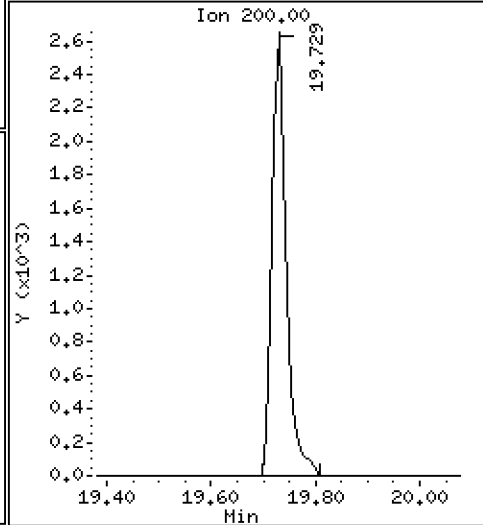
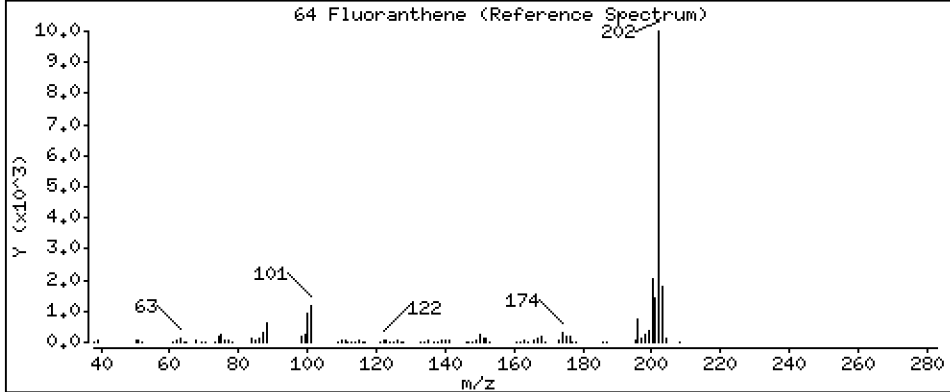
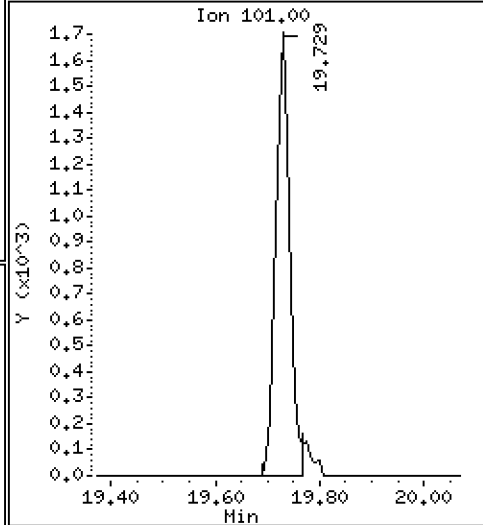
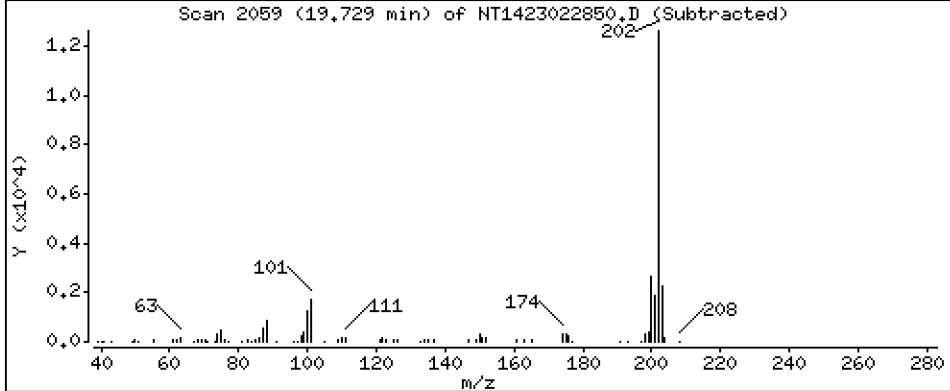
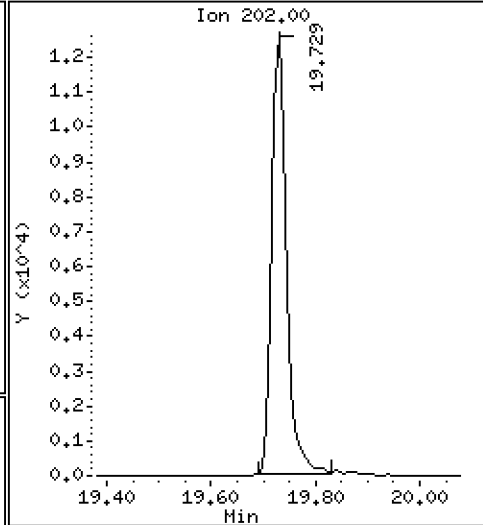
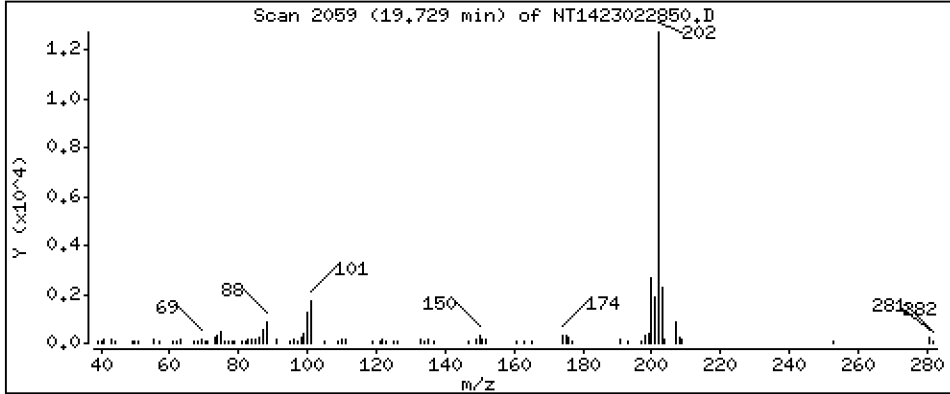
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,1763 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

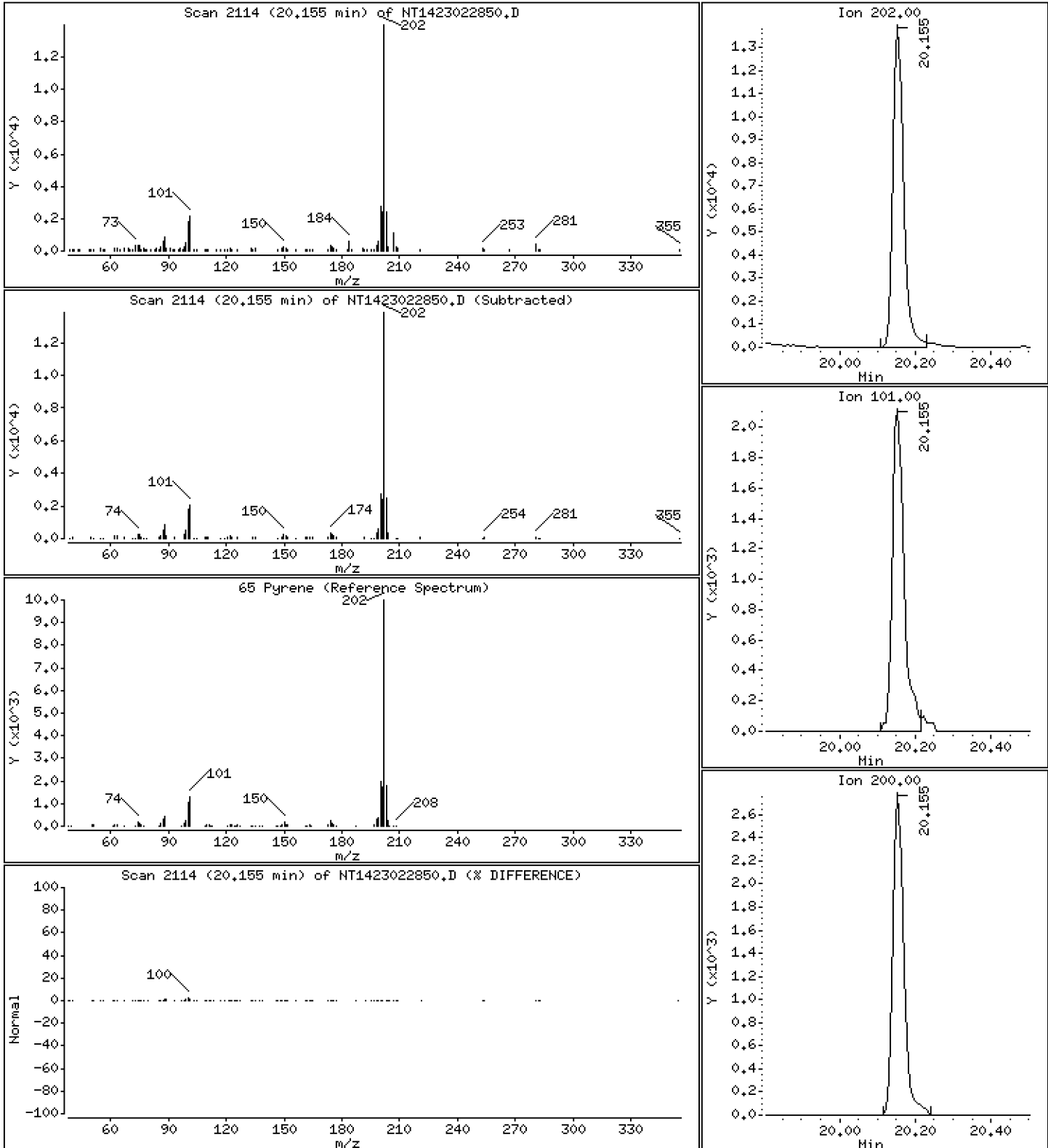
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,1838 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

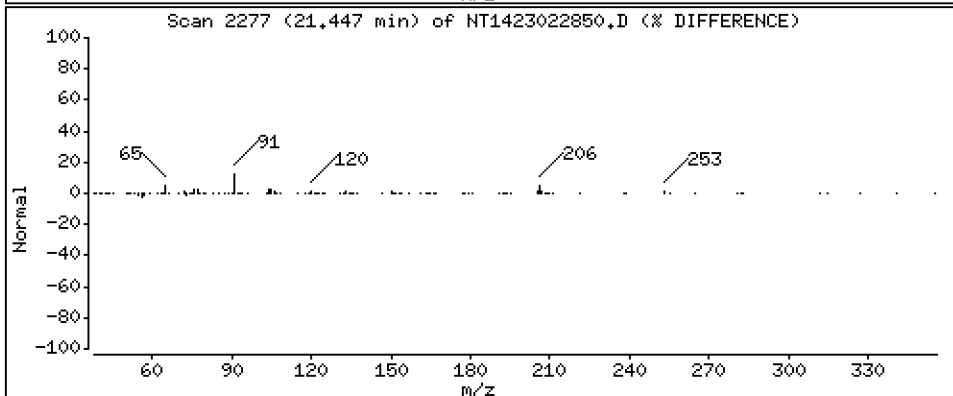
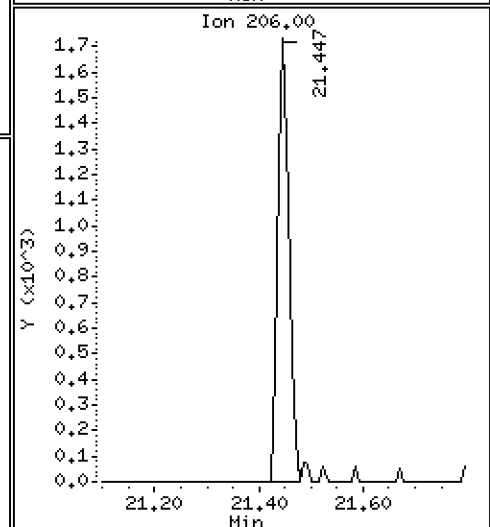
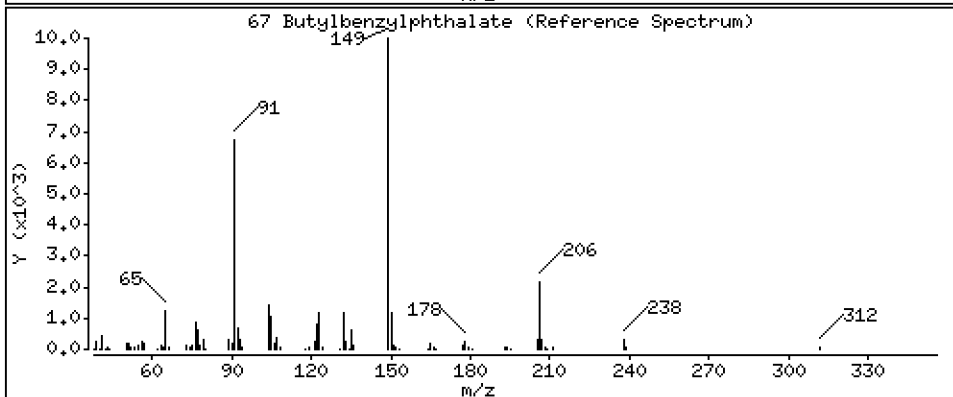
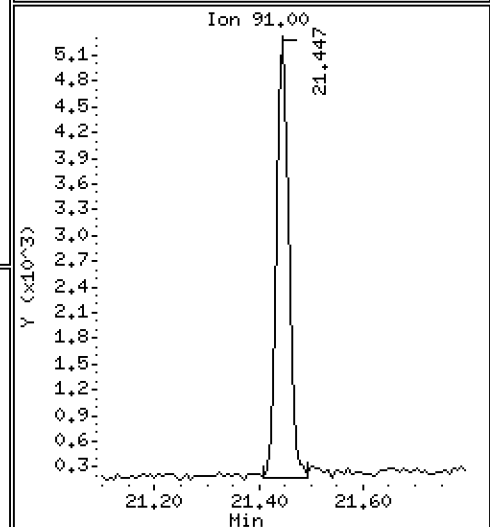
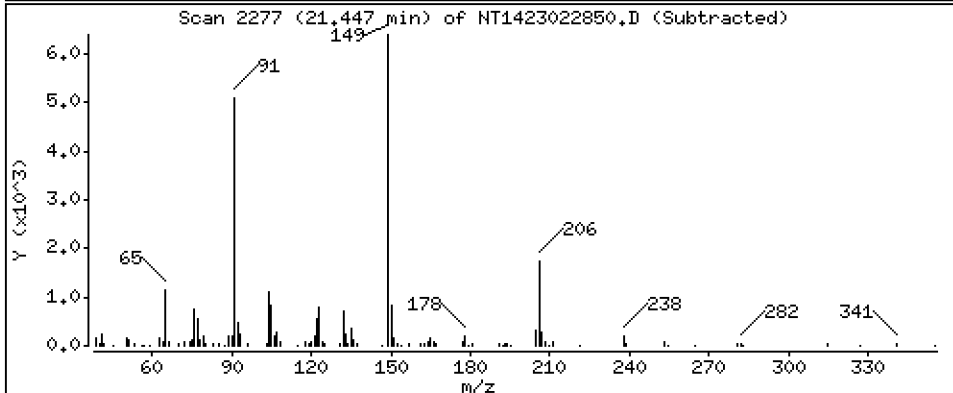
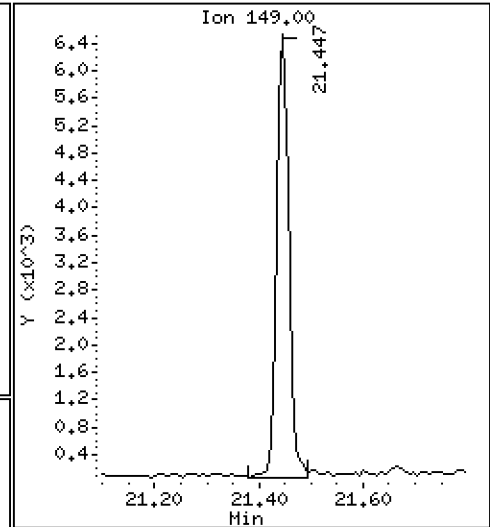
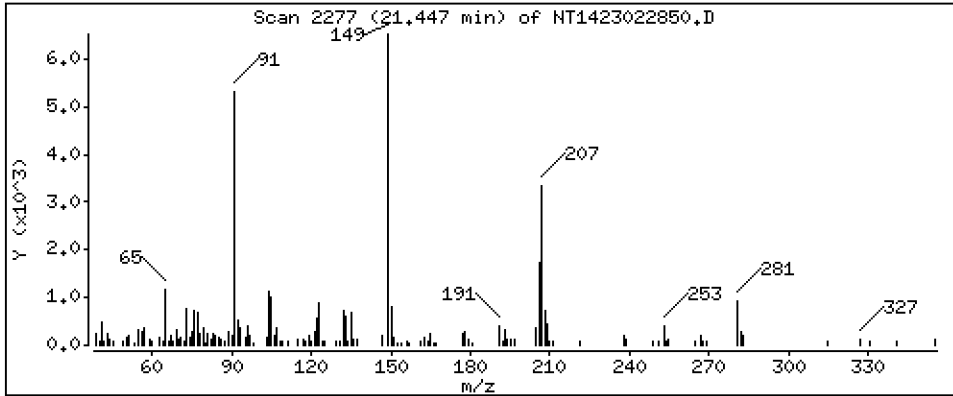
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.1999 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

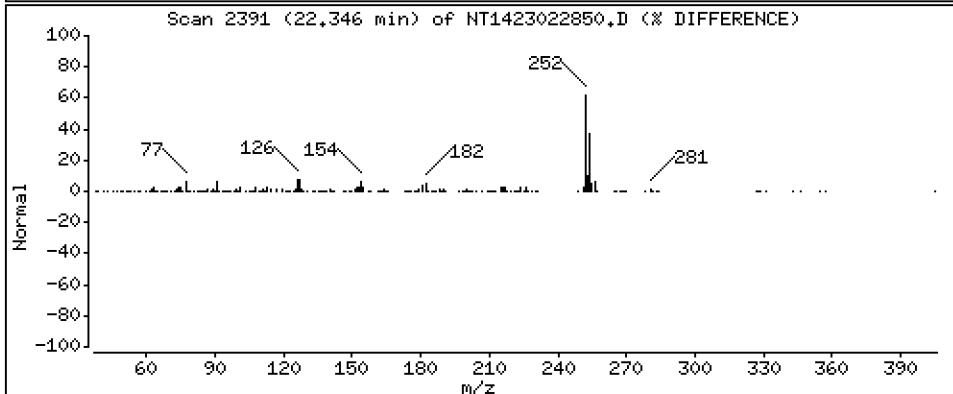
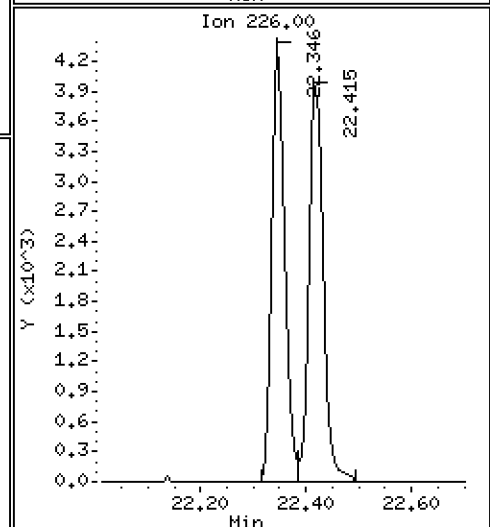
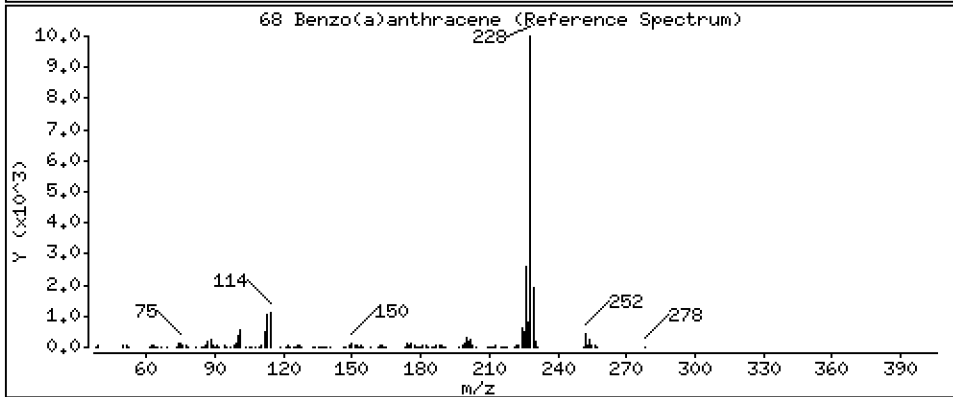
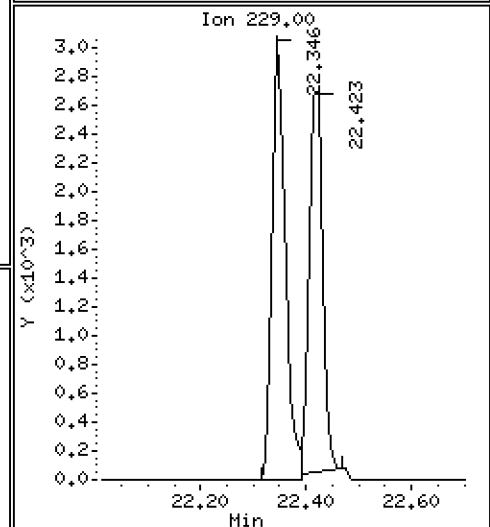
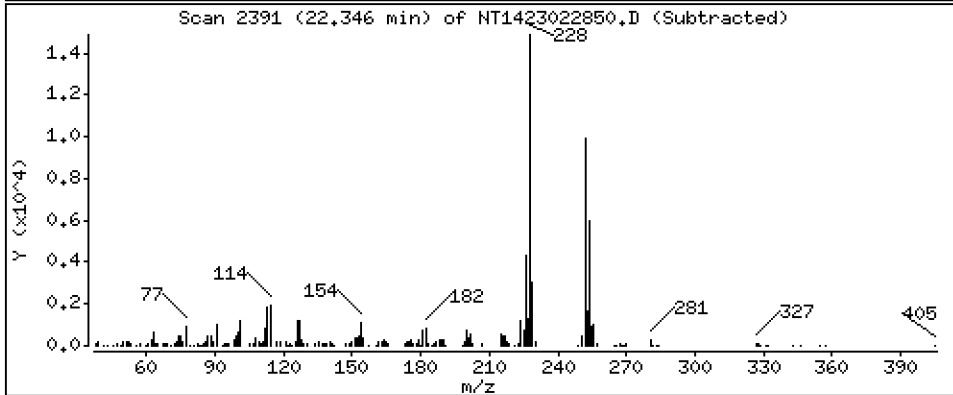
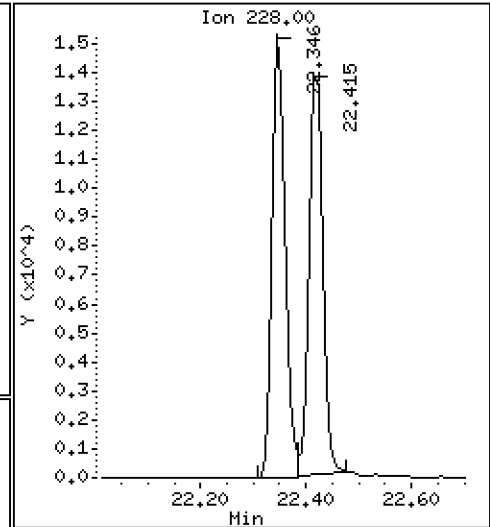
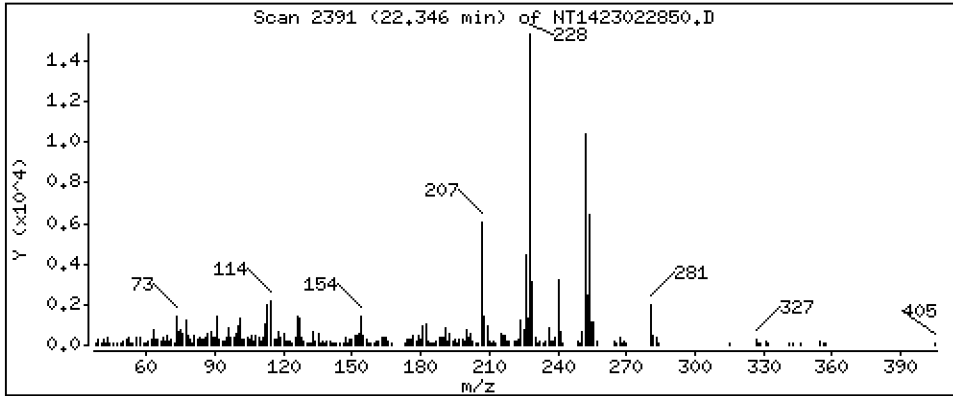
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2206 ug/mL





Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

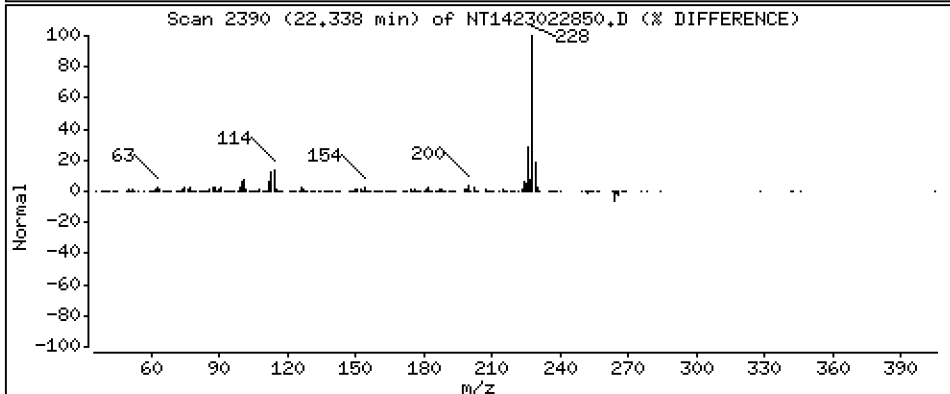
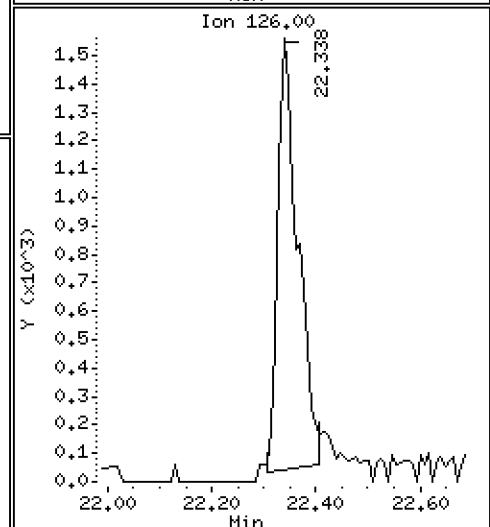
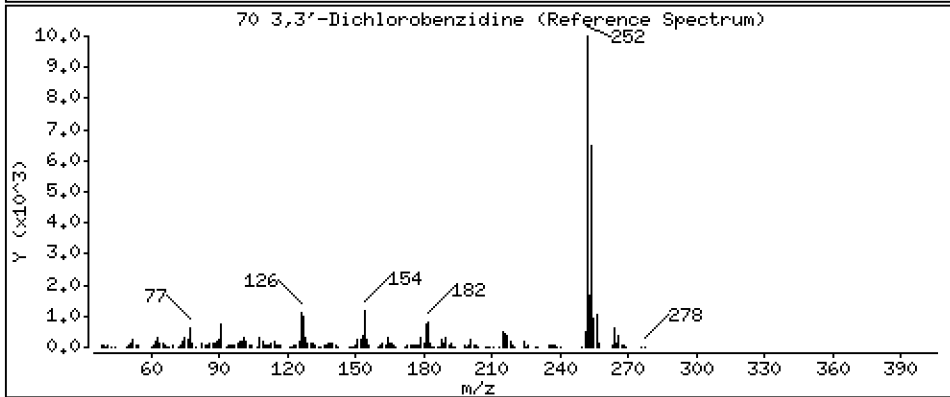
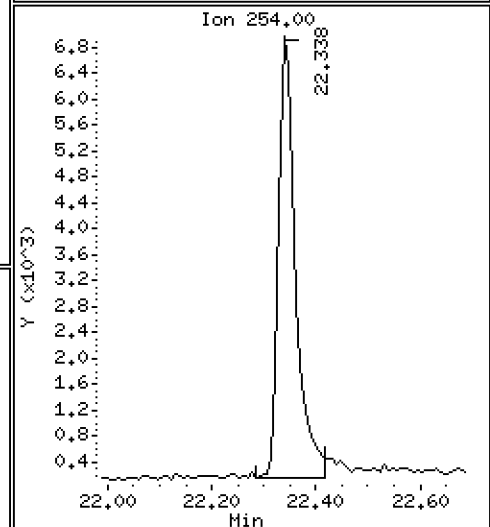
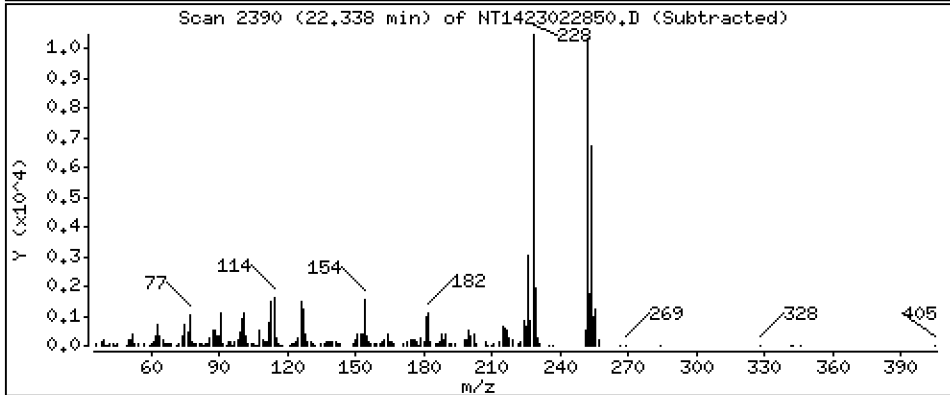
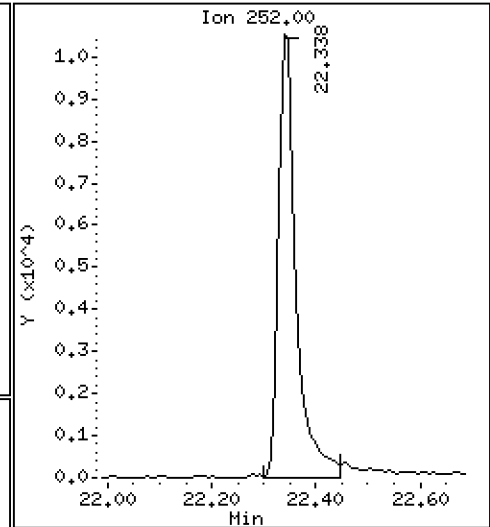
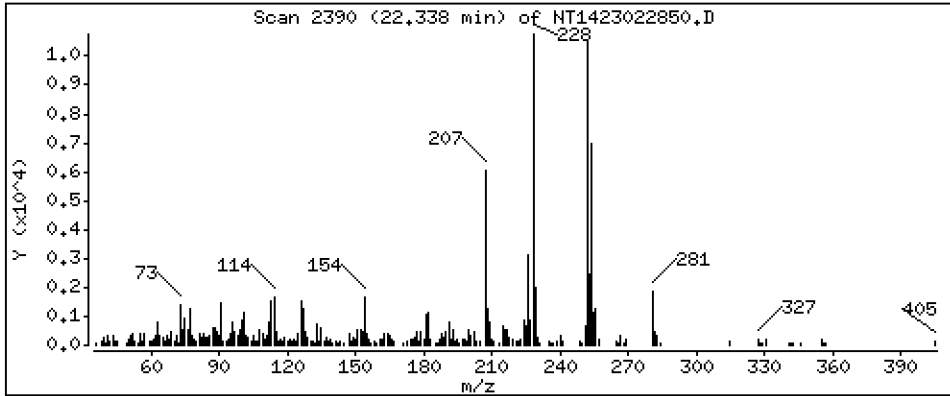
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,7172 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

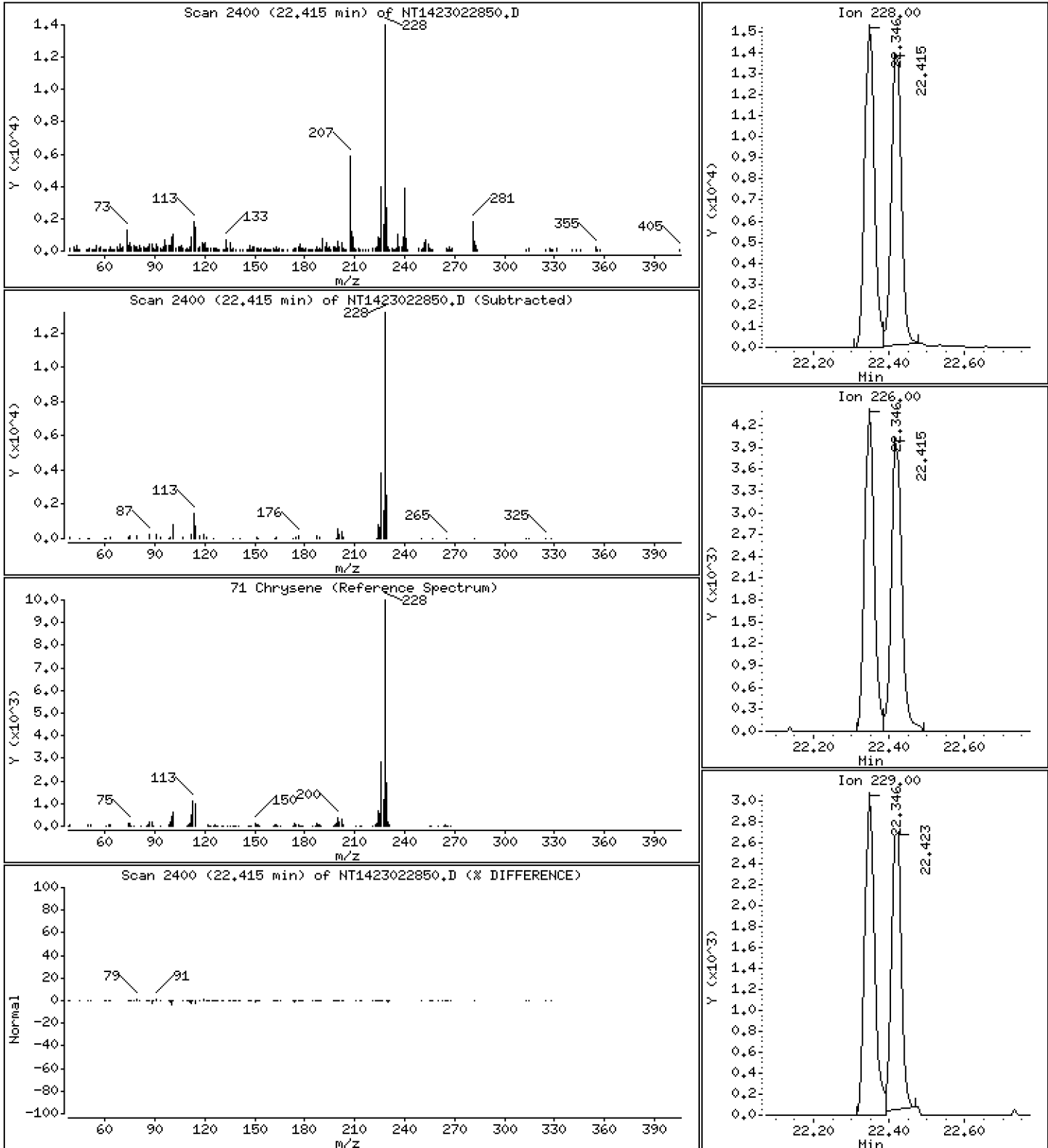
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2125 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

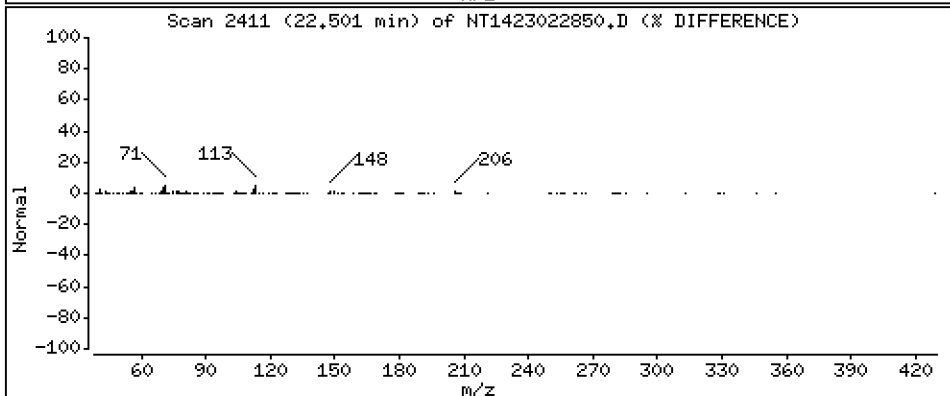
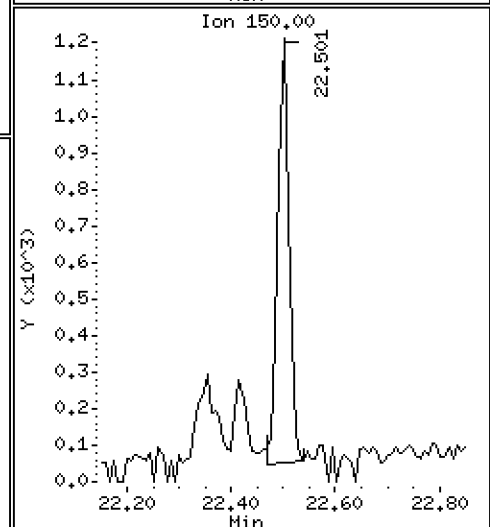
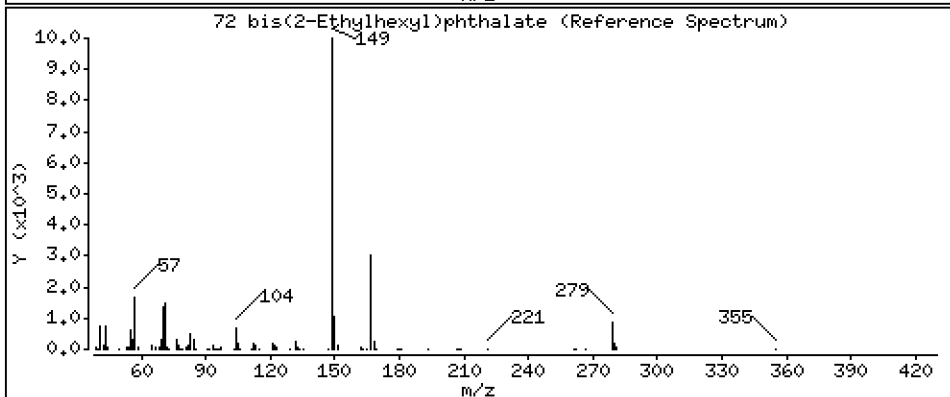
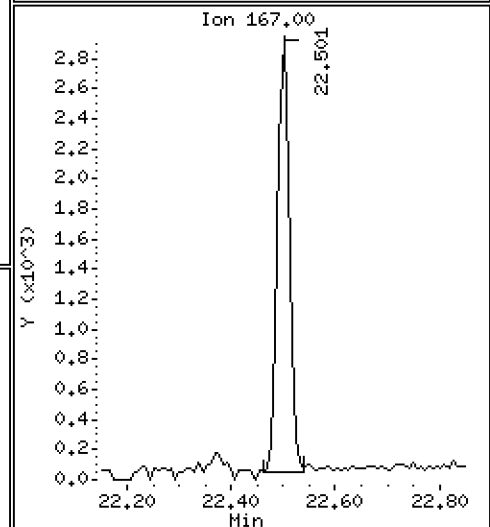
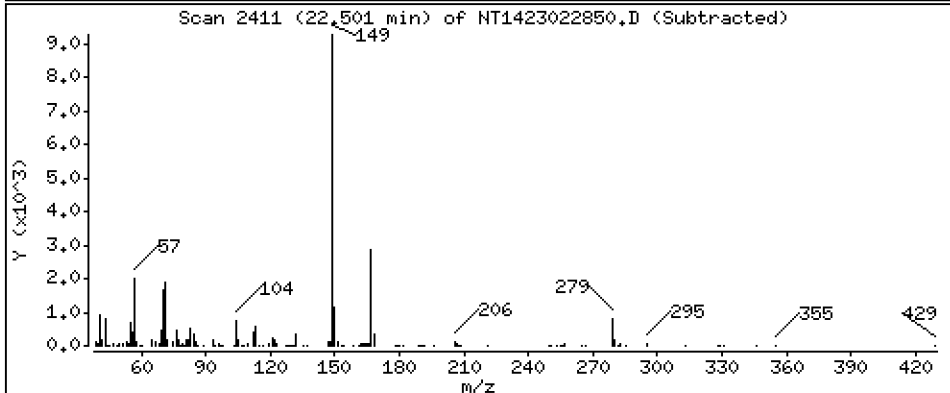
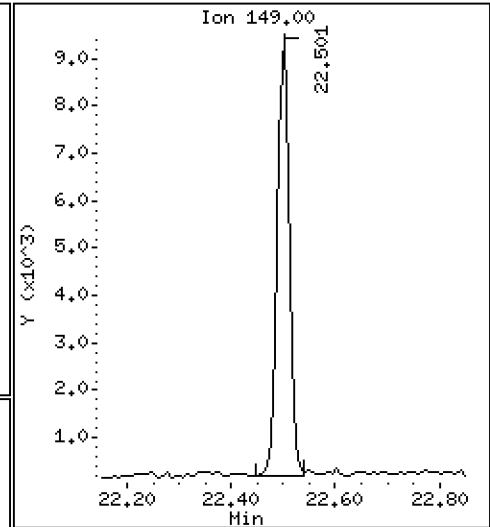
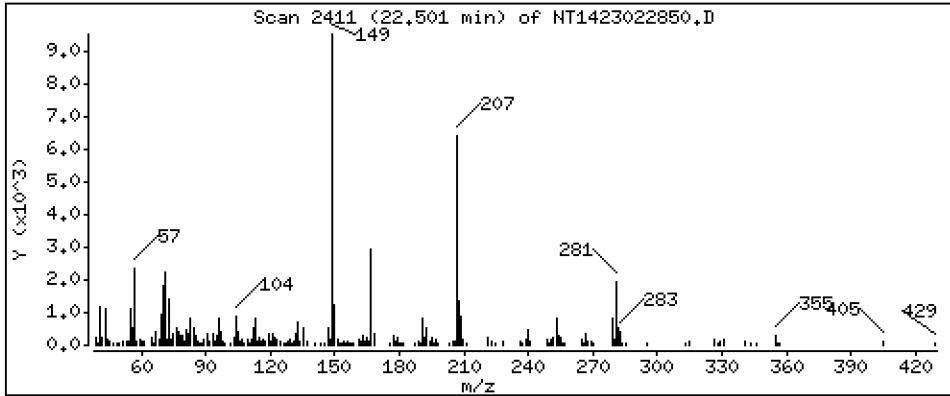
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,1812 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

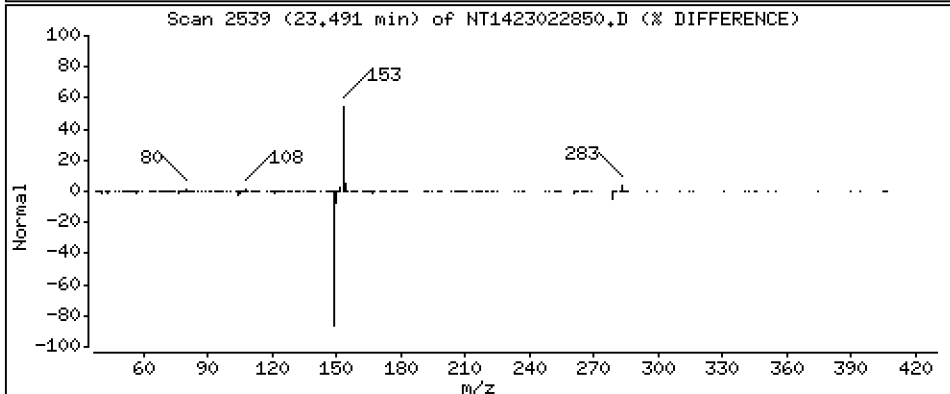
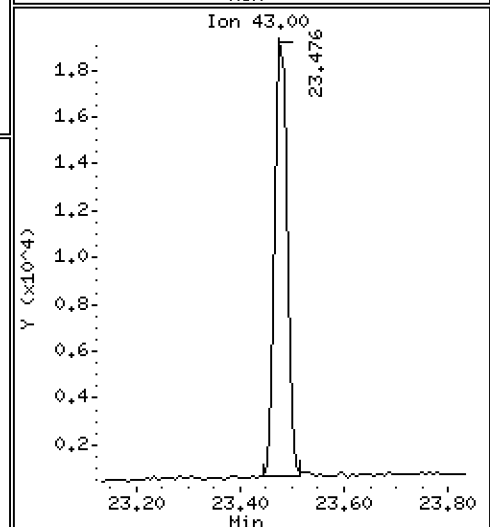
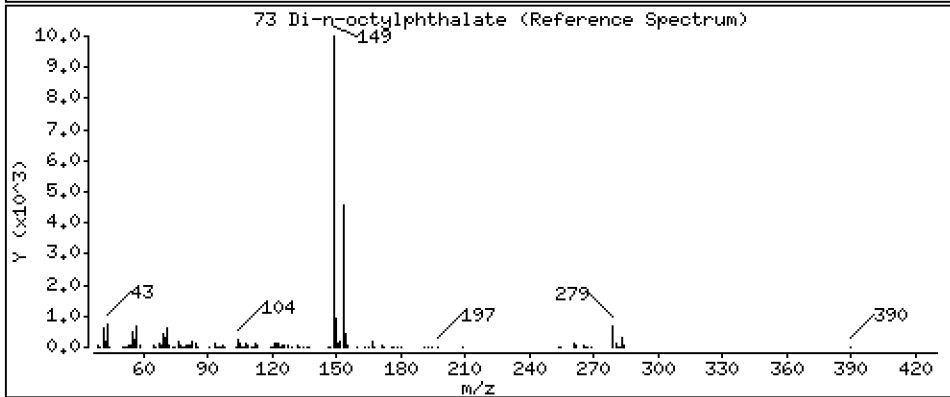
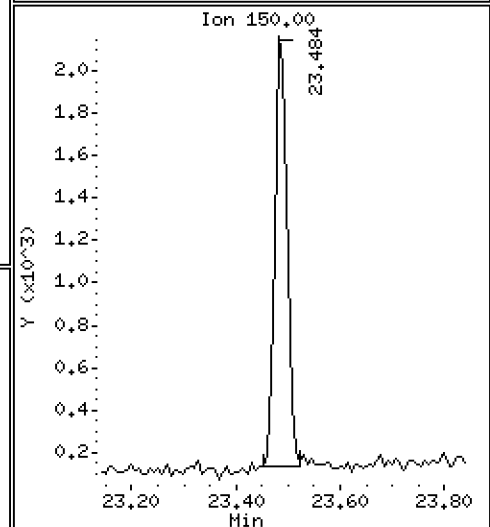
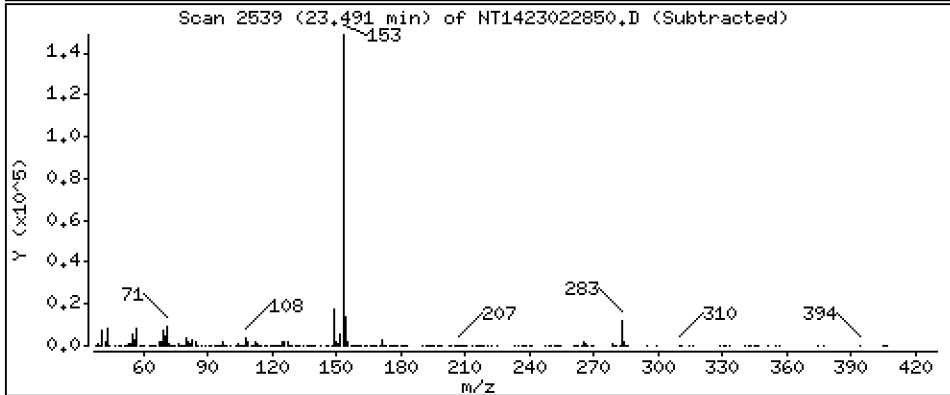
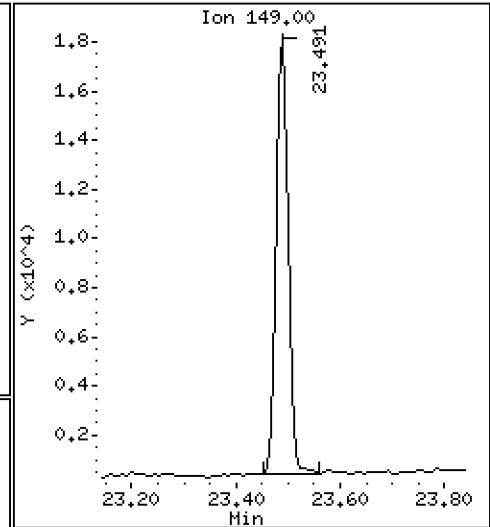
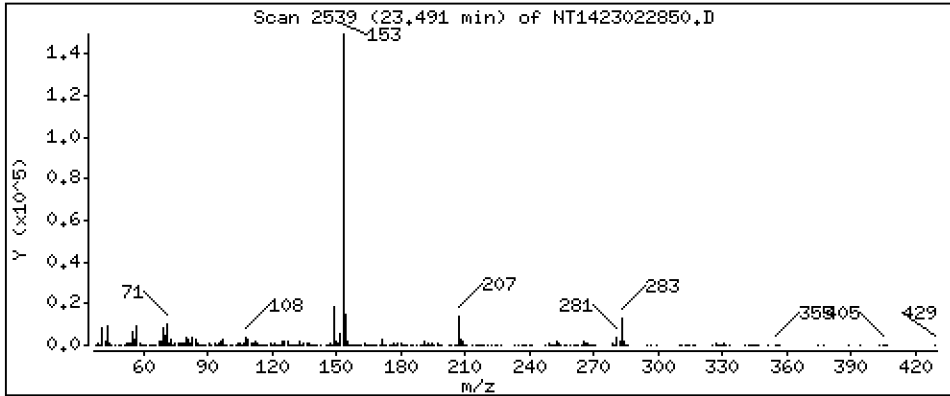
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2059 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

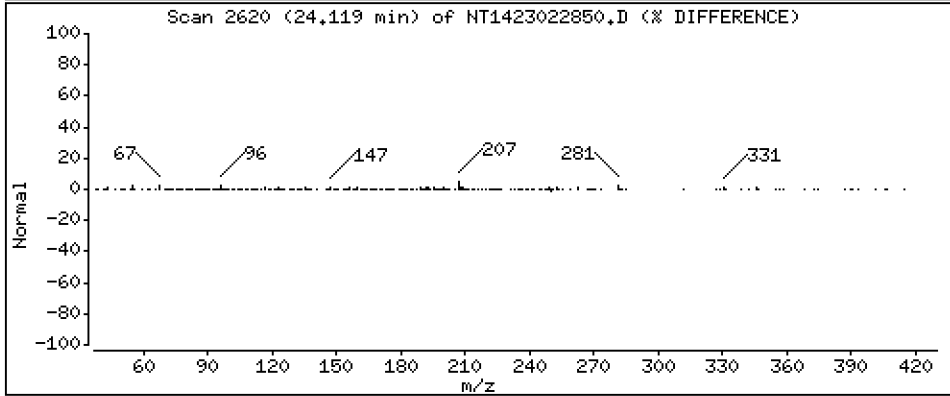
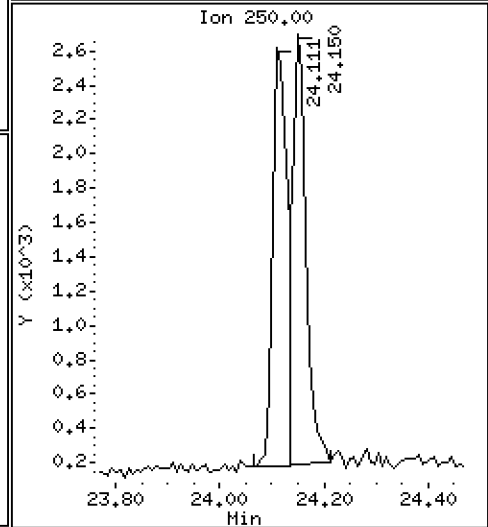
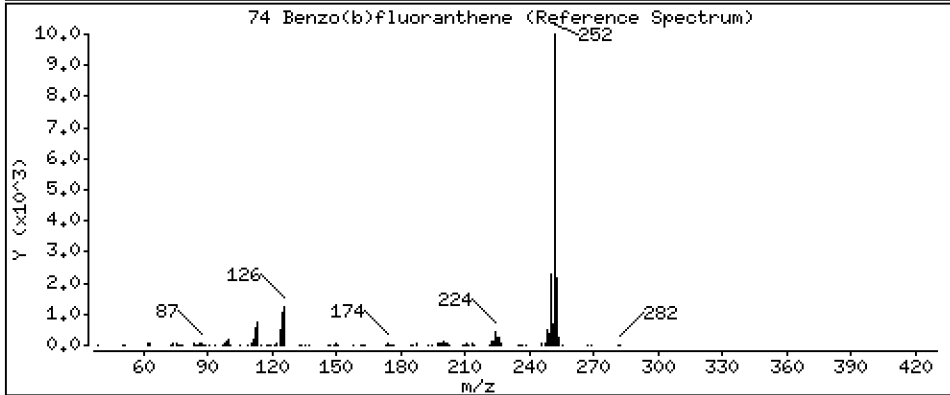
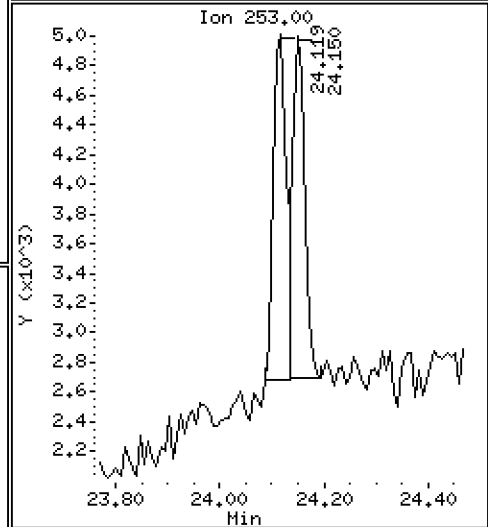
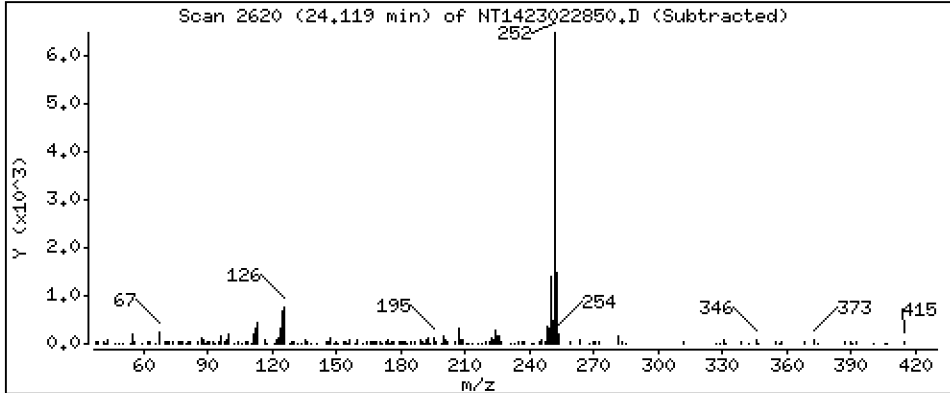
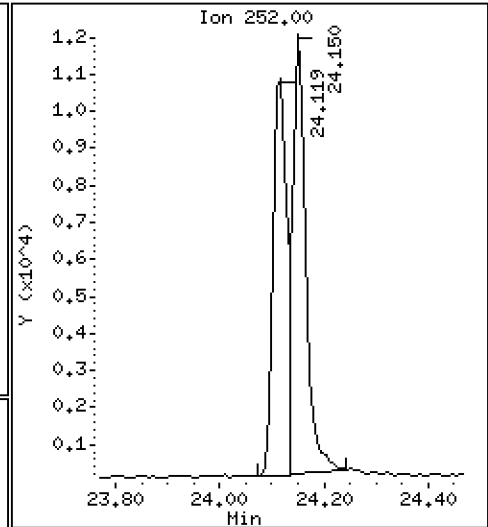
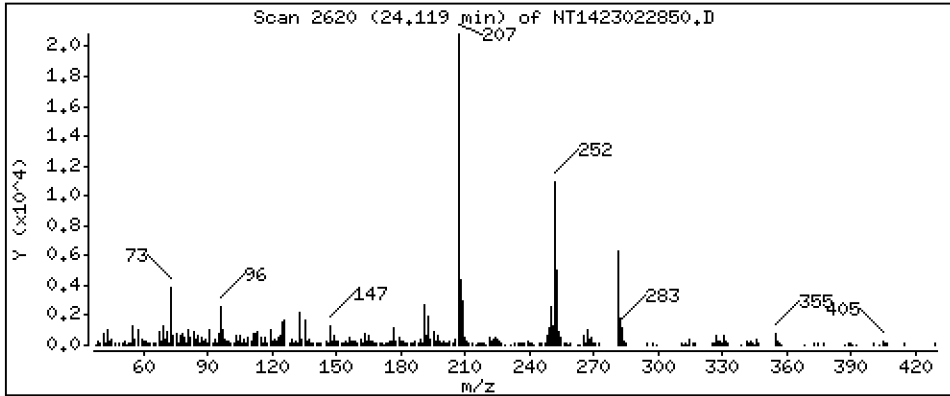
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,2502 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

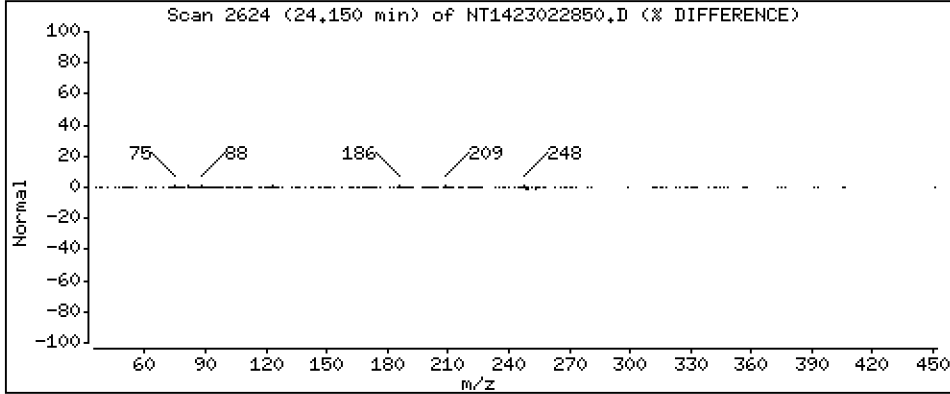
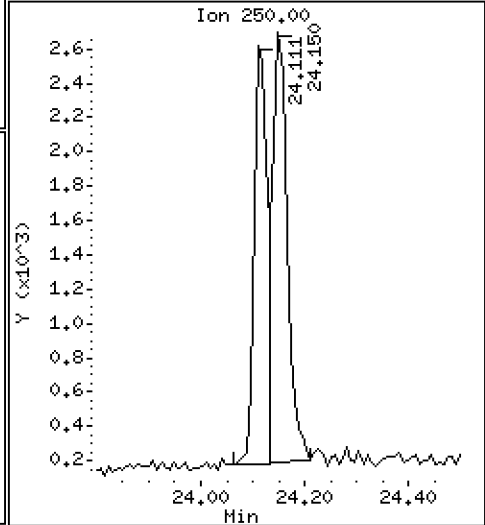
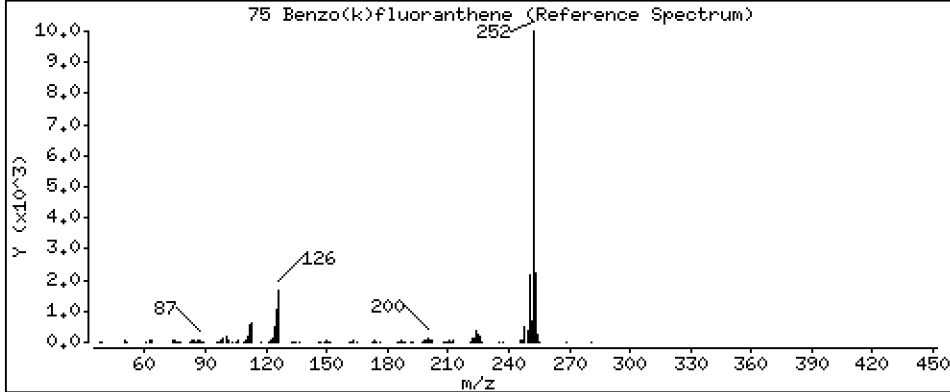
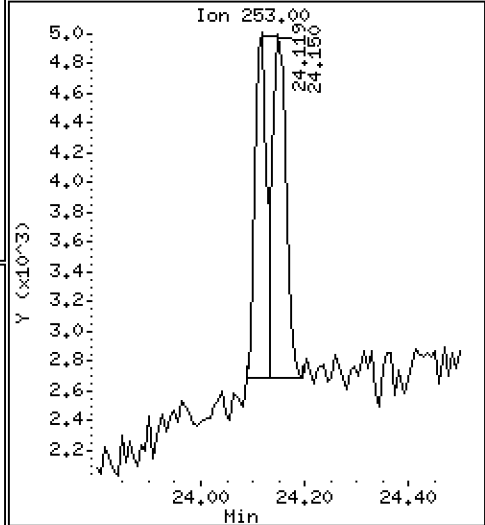
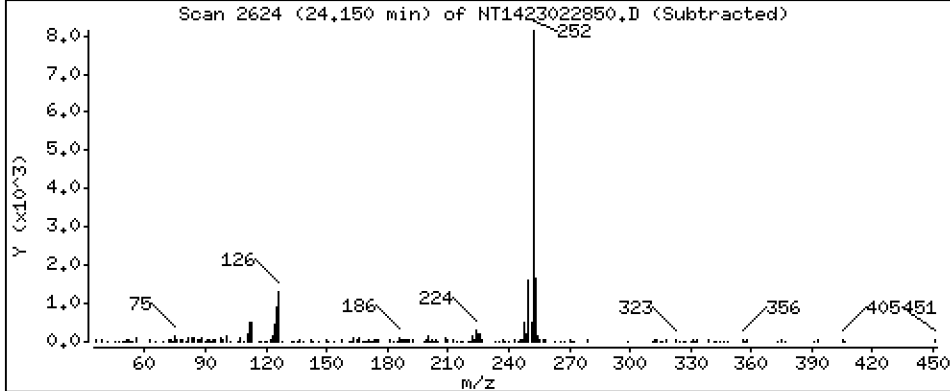
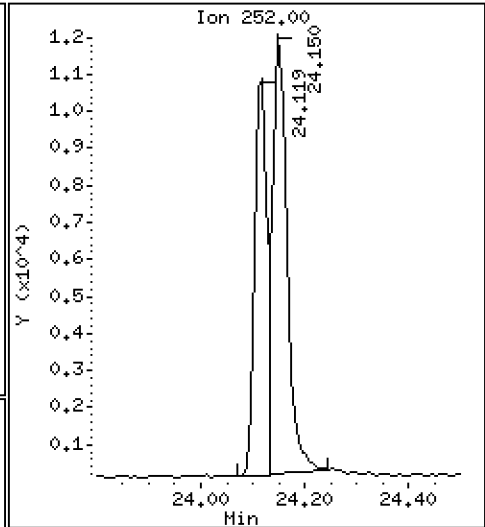
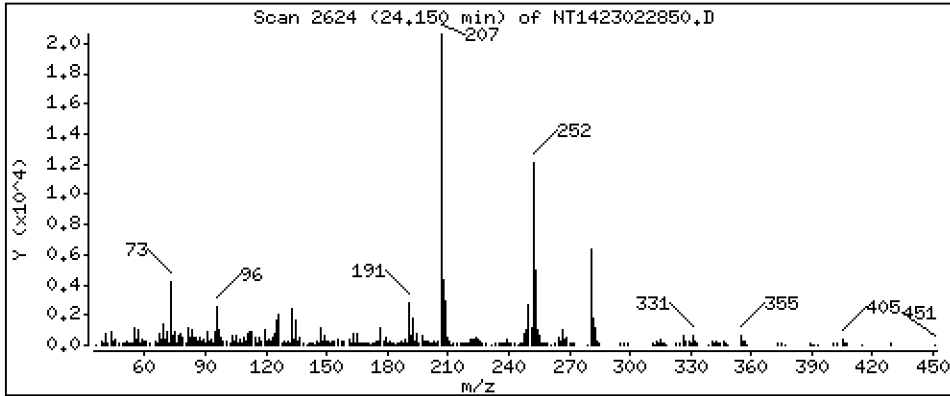
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2656 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

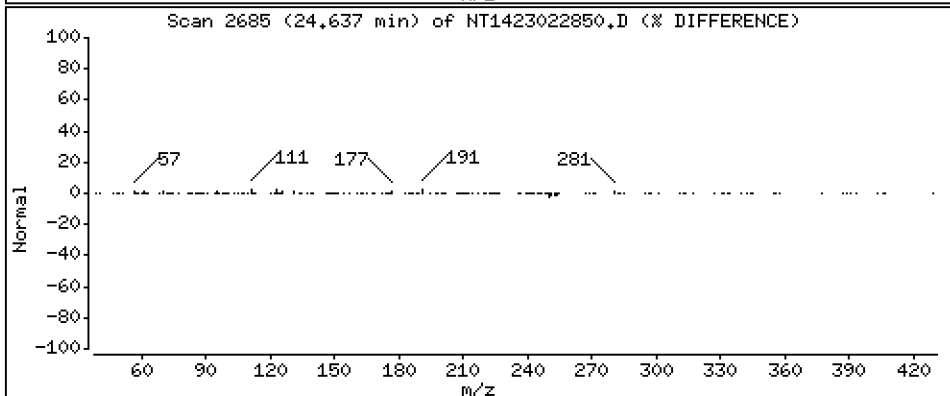
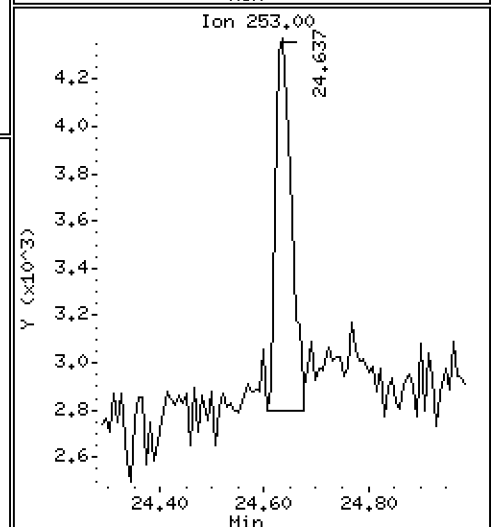
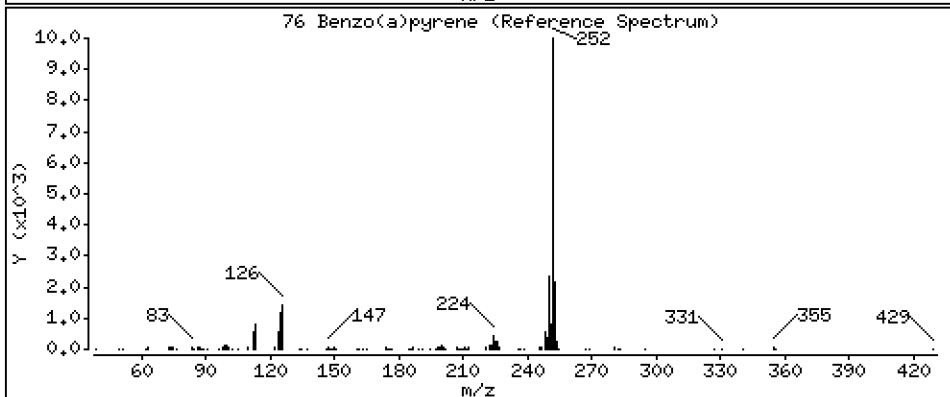
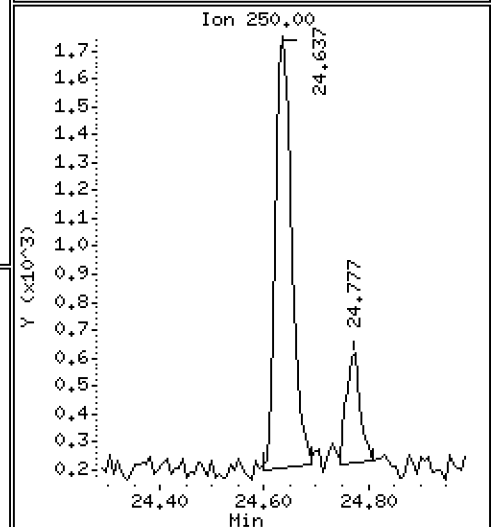
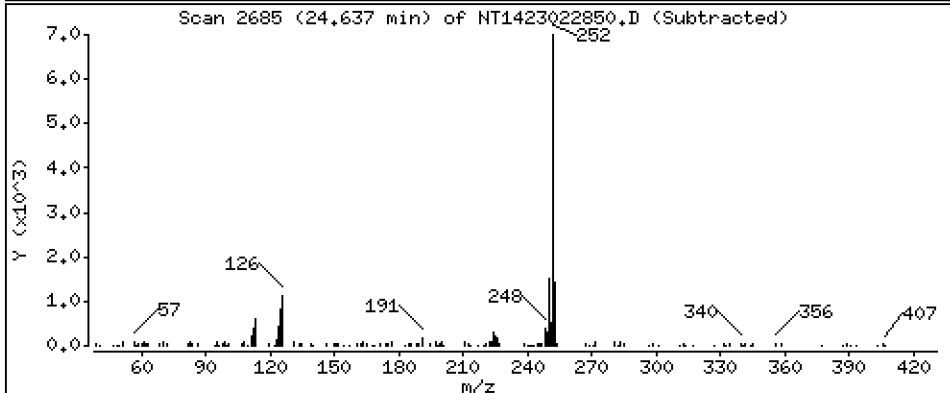
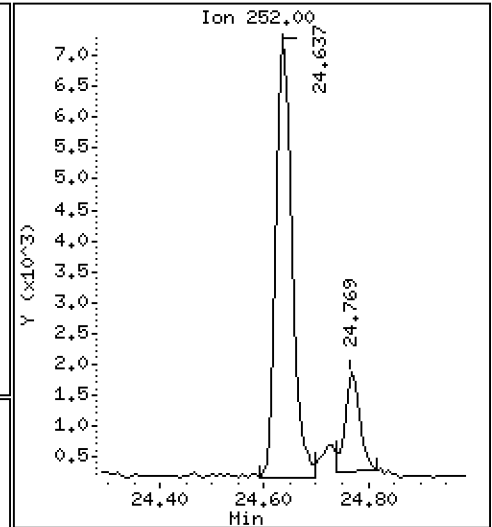
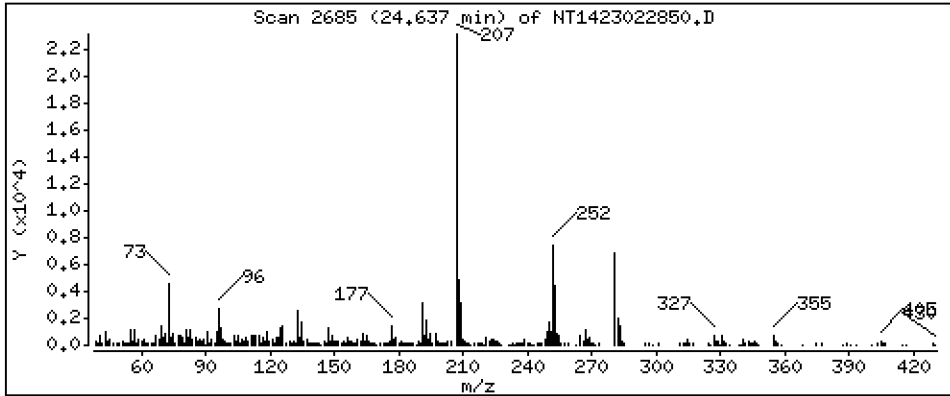
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2184 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

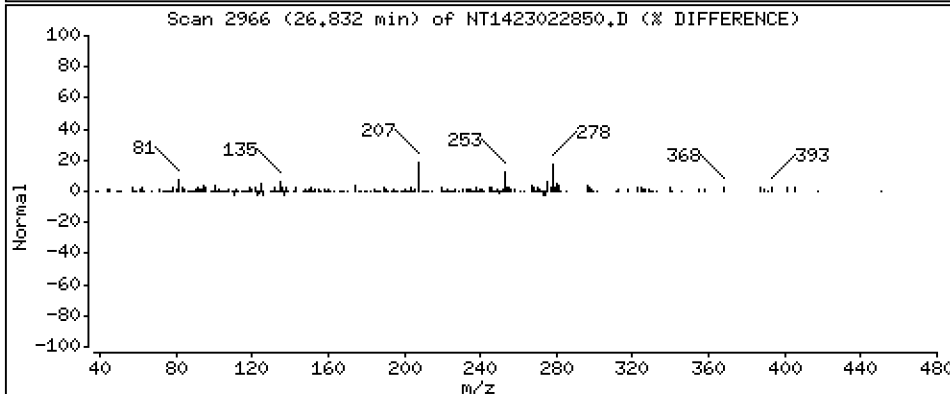
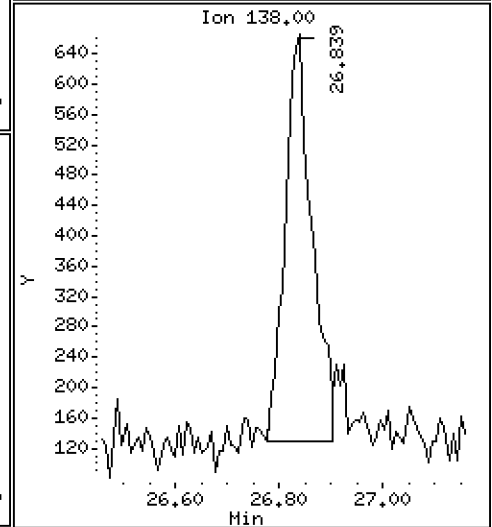
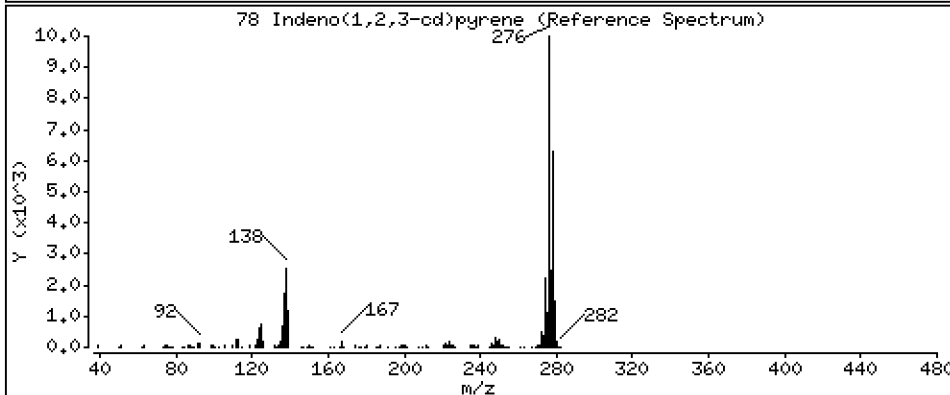
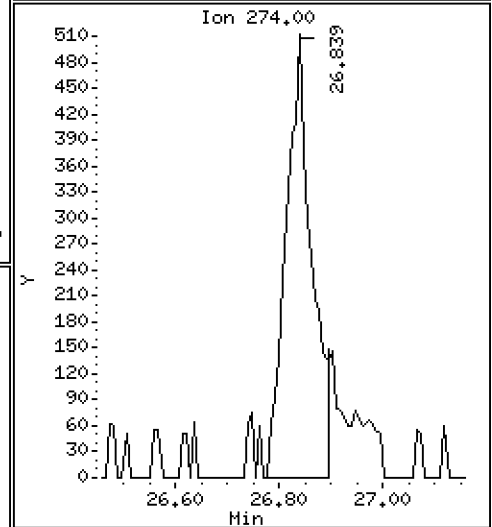
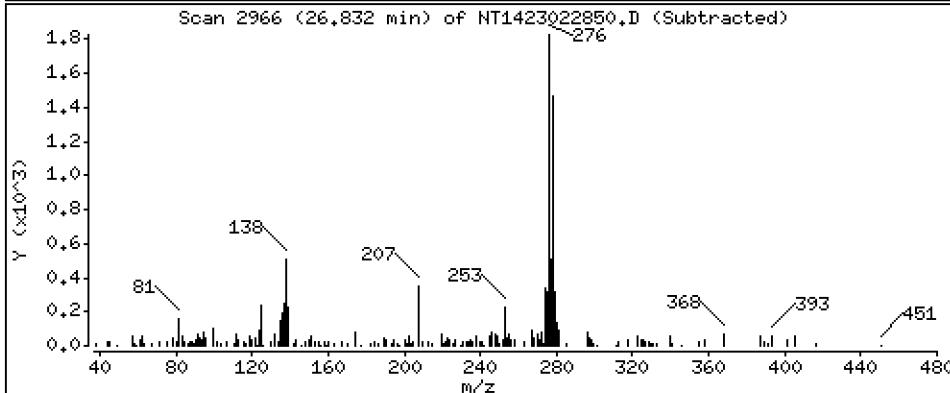
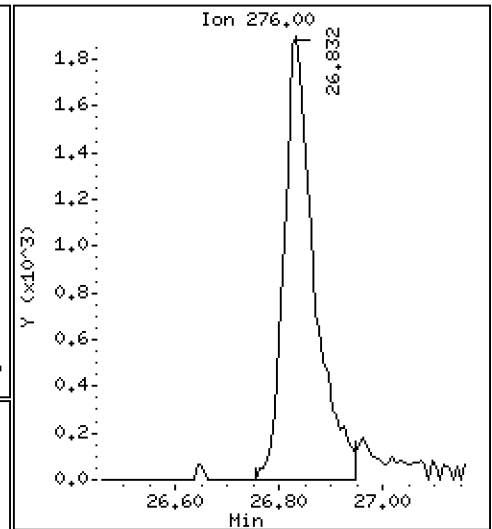
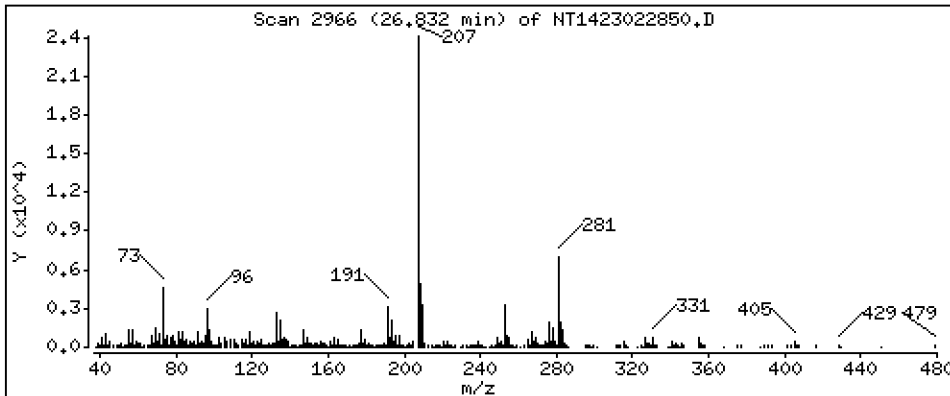
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,09029 ug/mL





Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

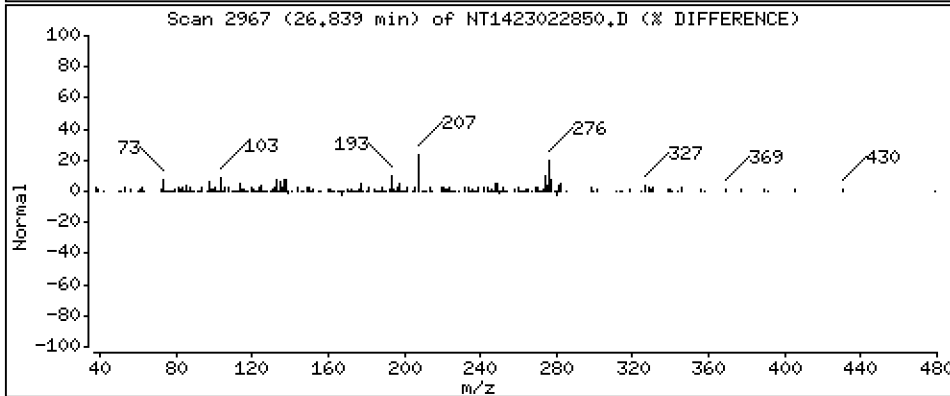
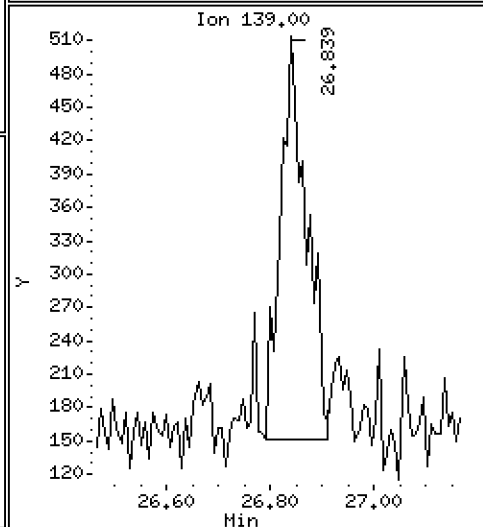
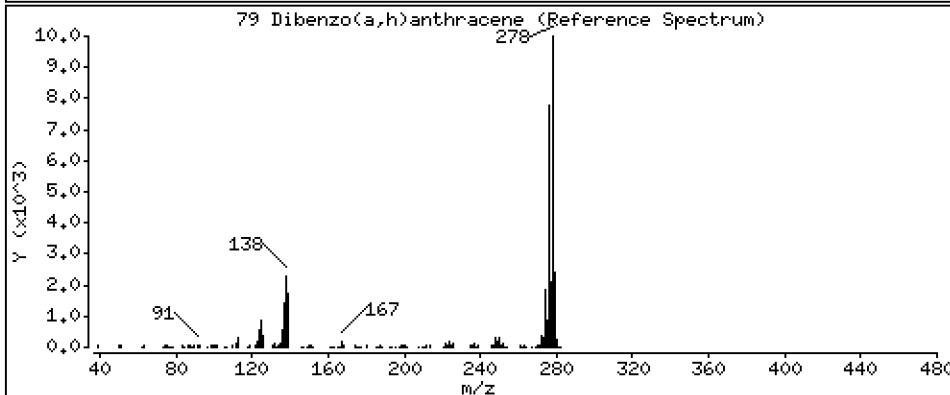
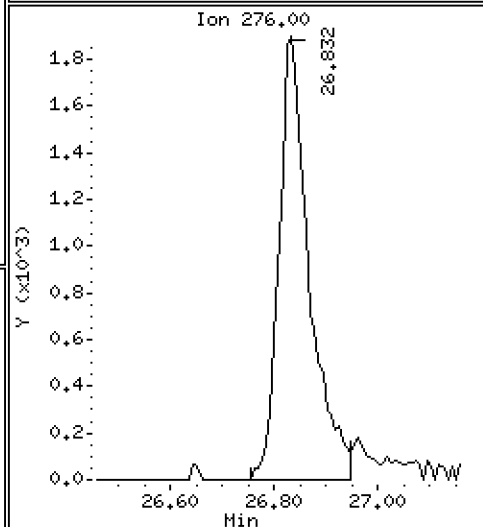
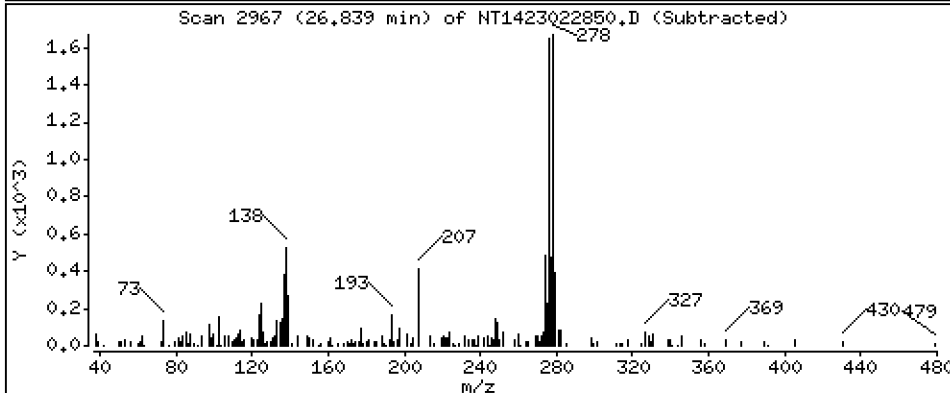
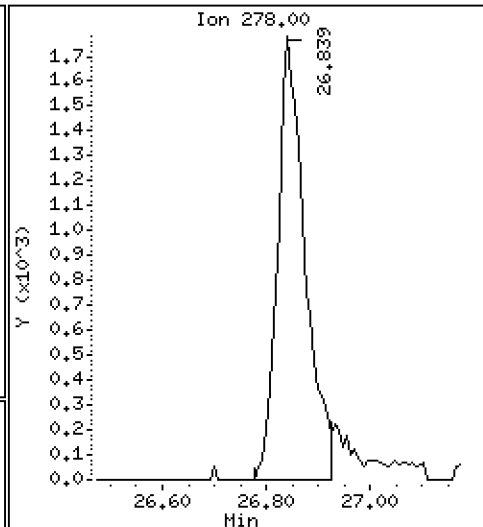
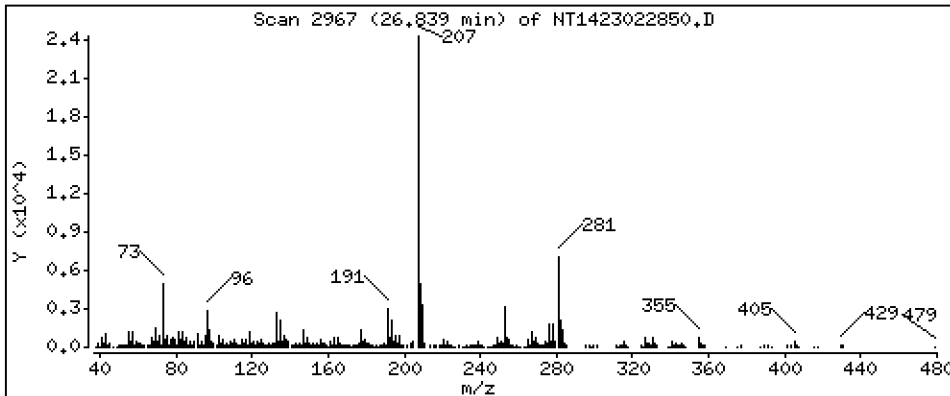
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 0.09126 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

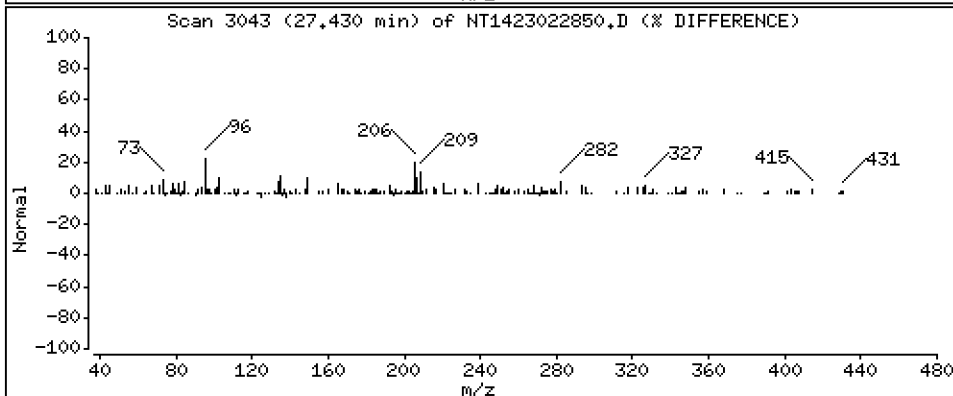
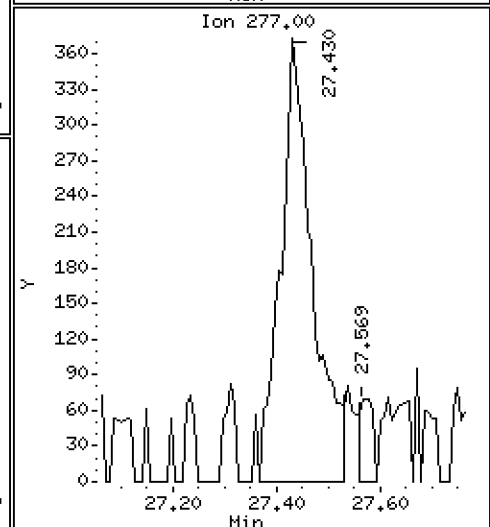
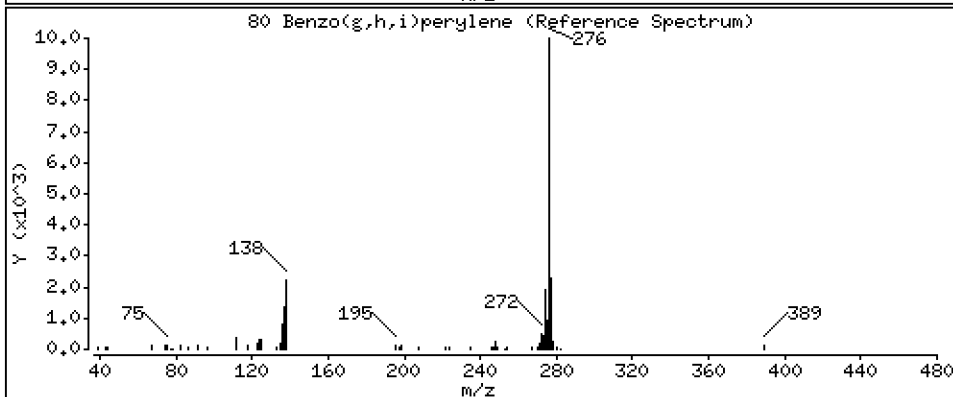
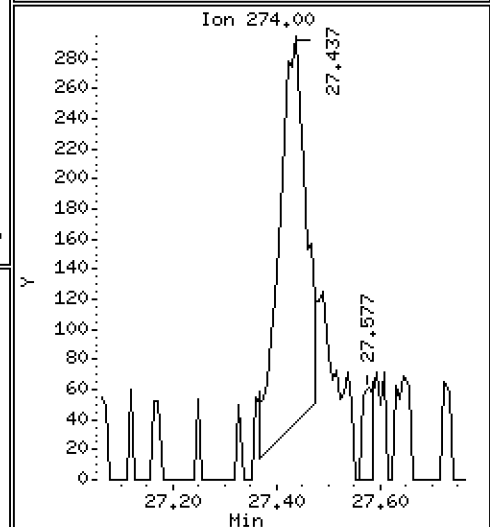
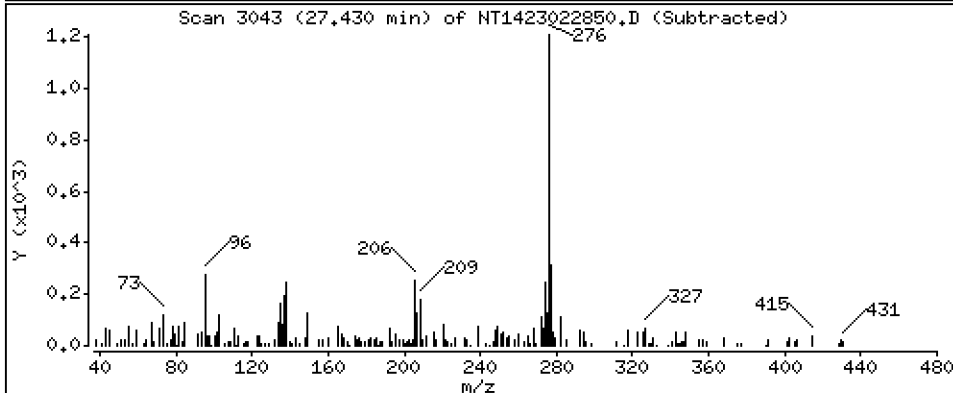
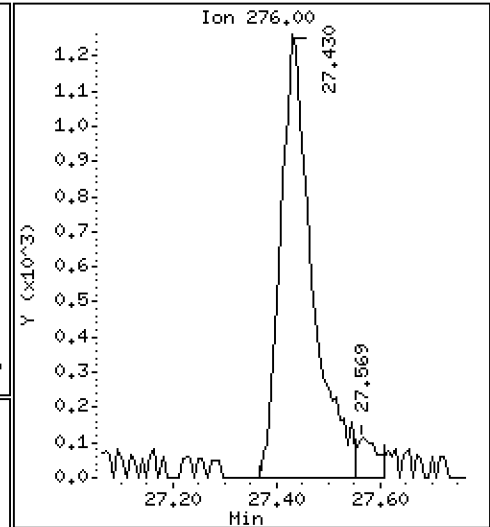
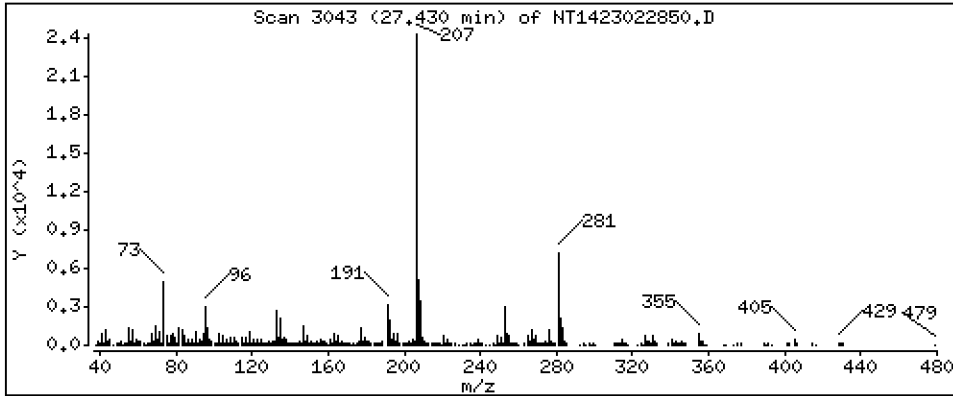
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,07207 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

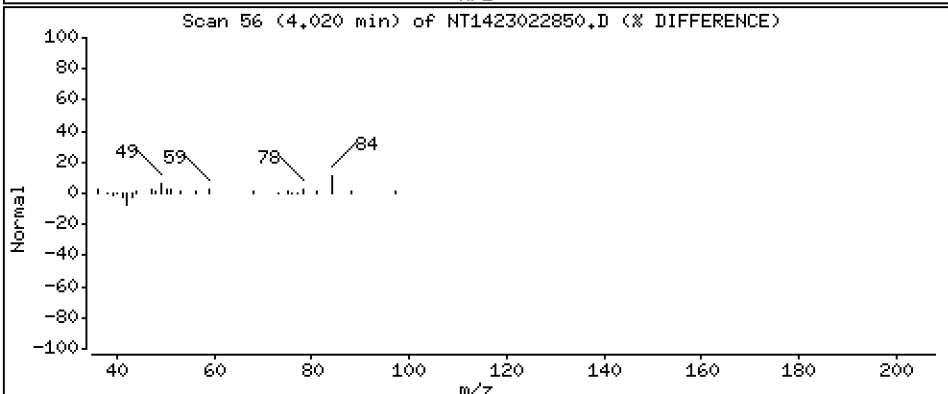
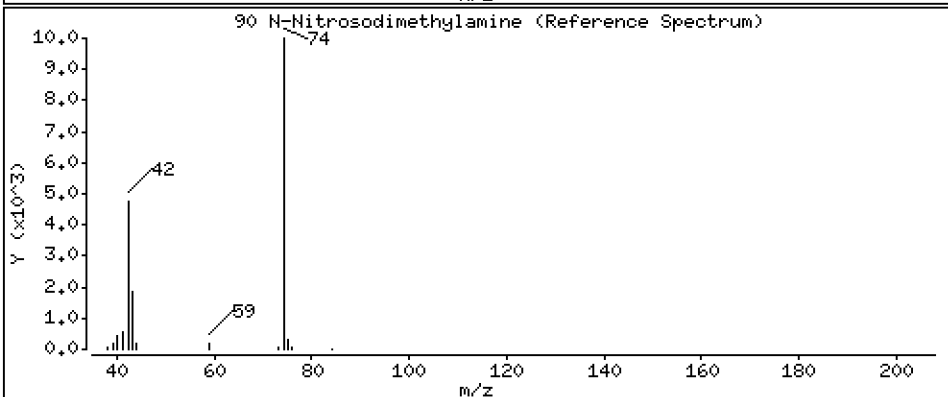
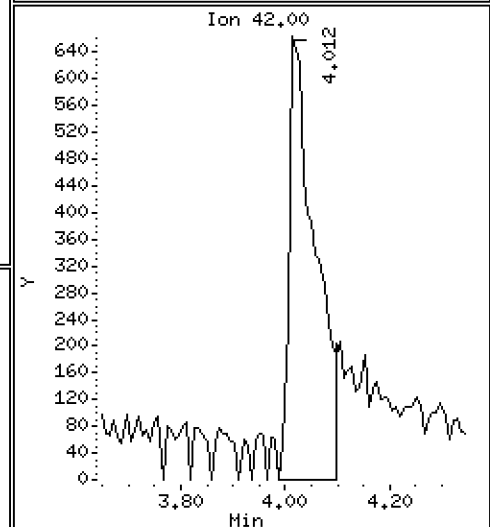
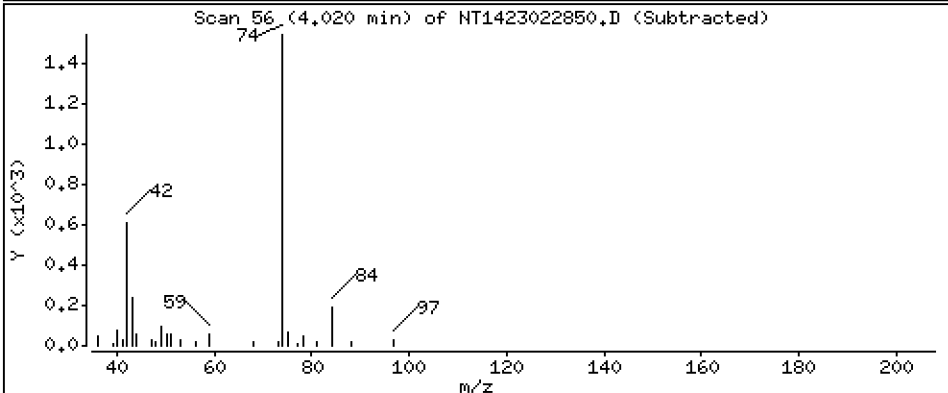
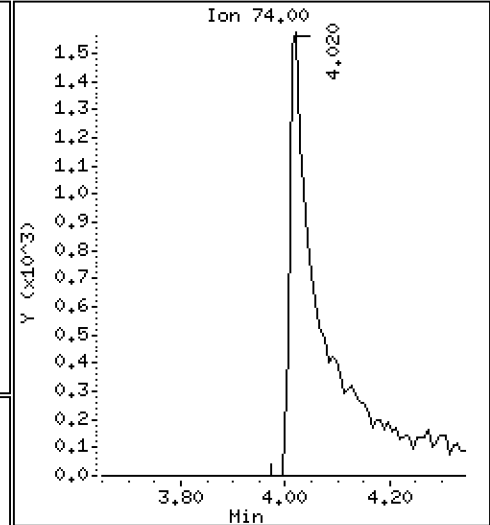
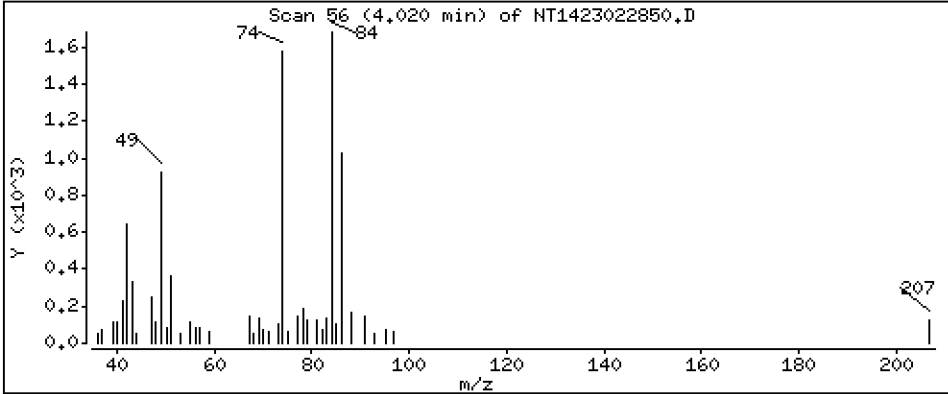
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,3584 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

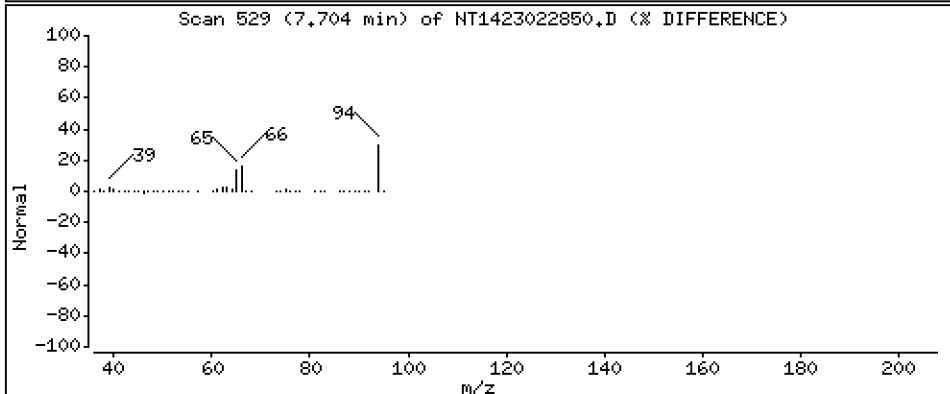
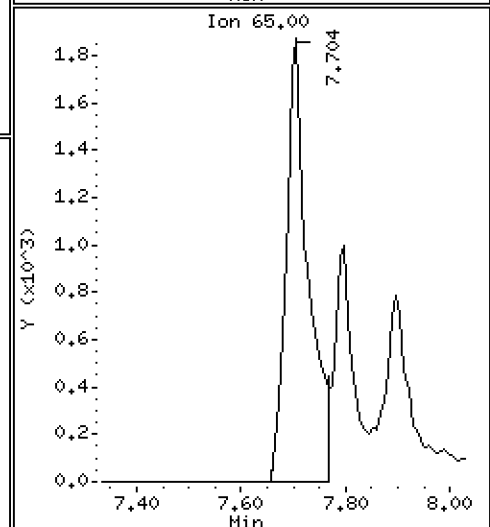
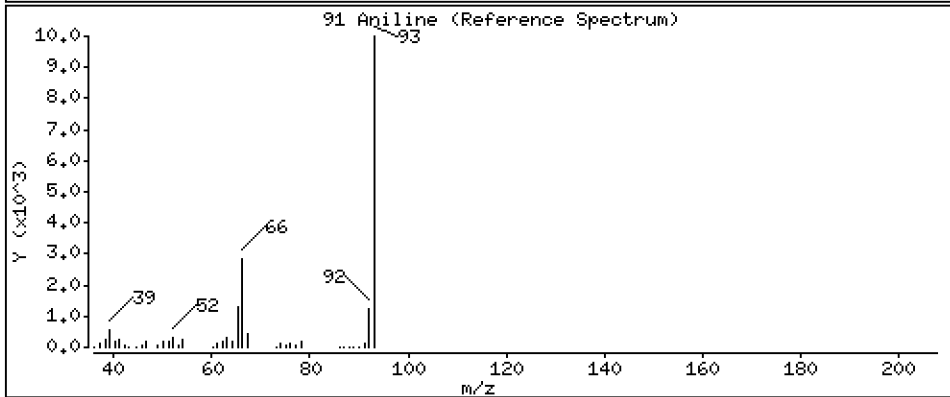
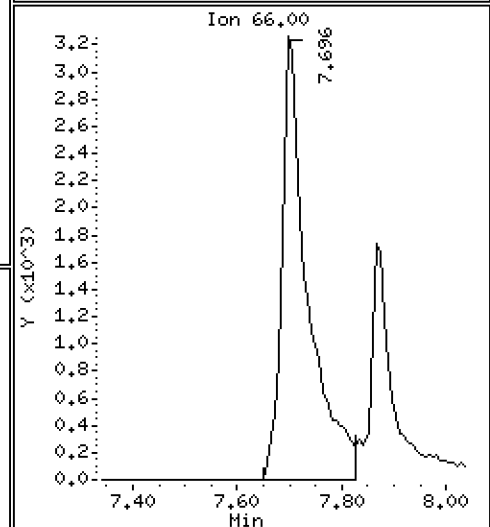
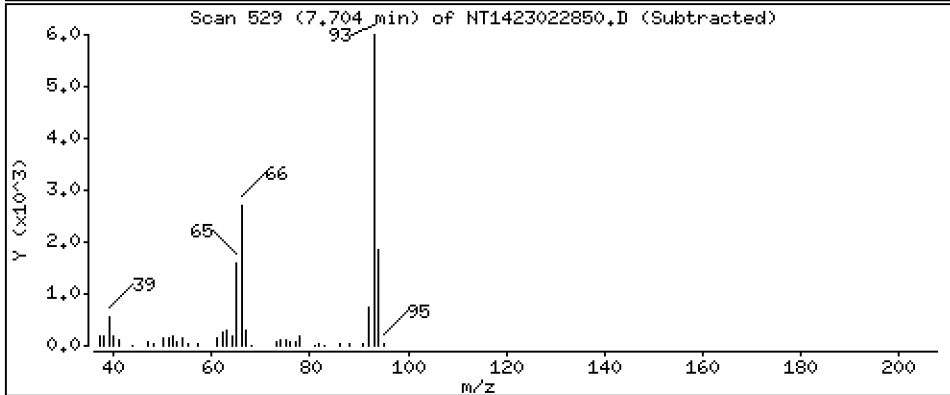
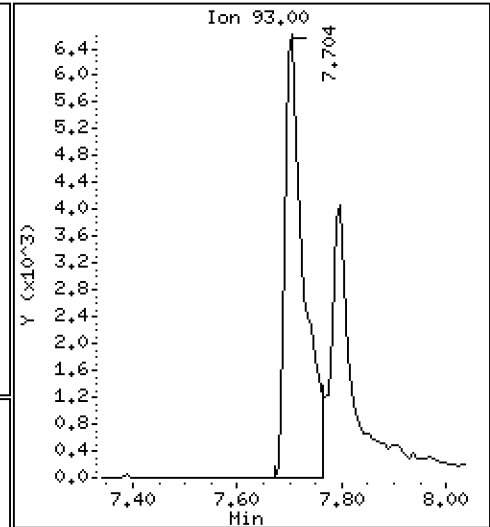
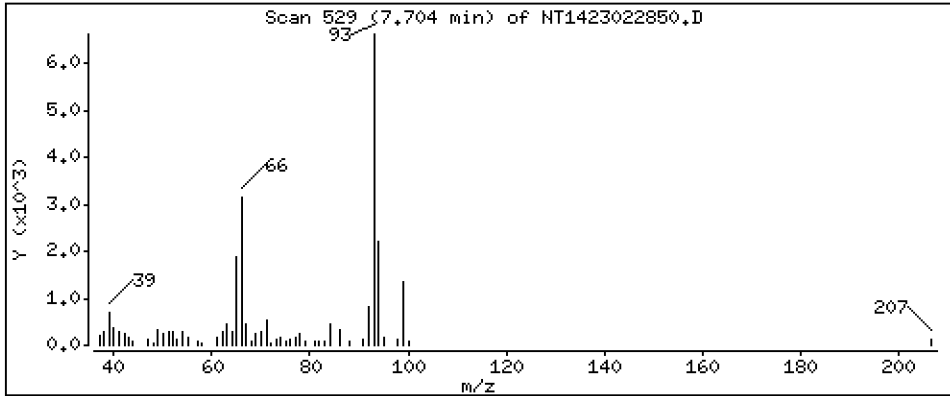
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.3036 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

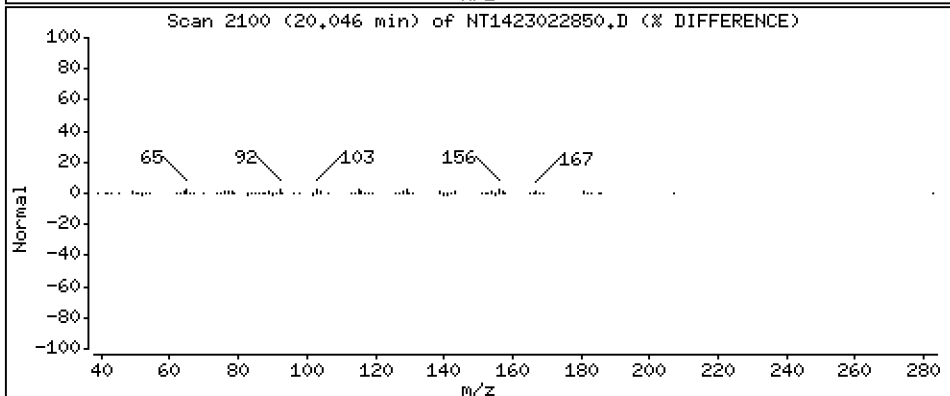
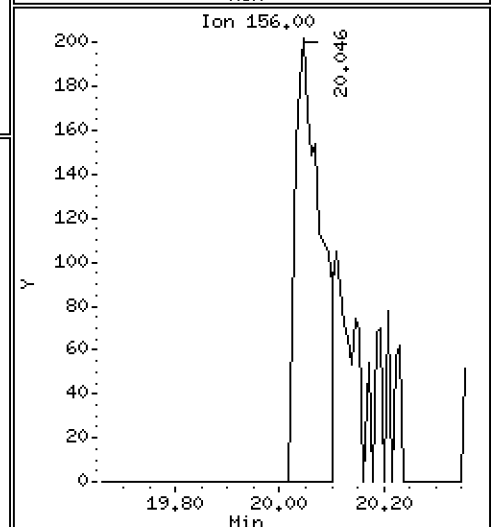
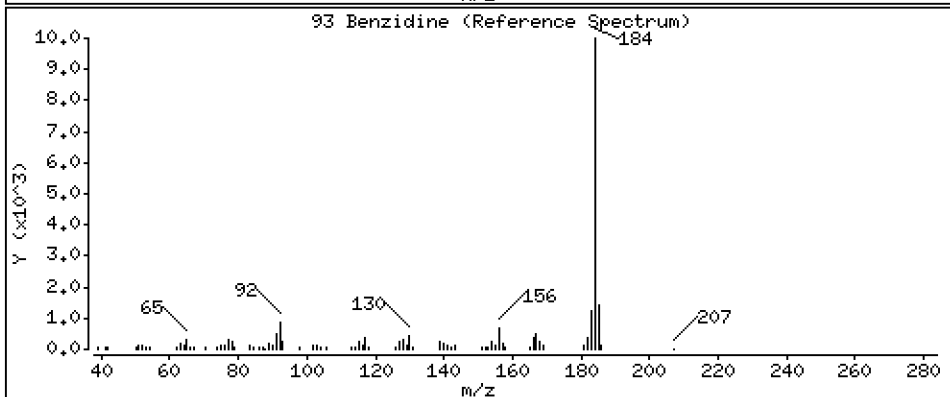
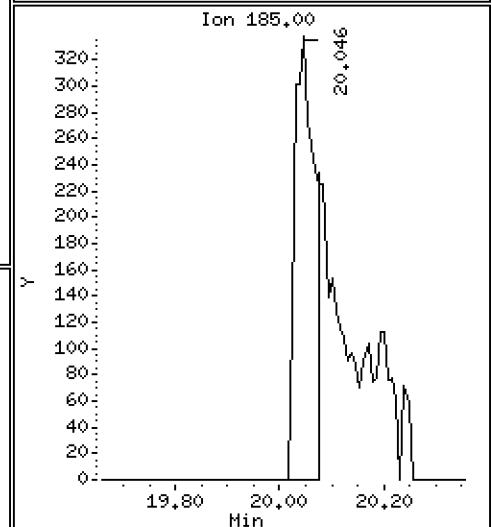
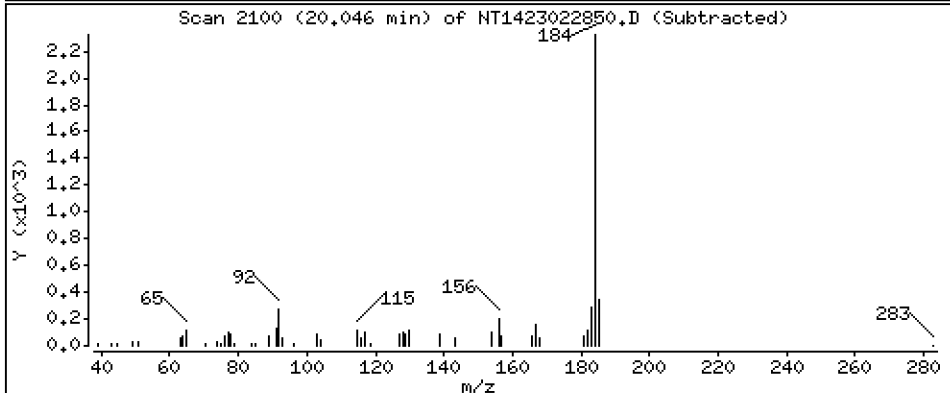
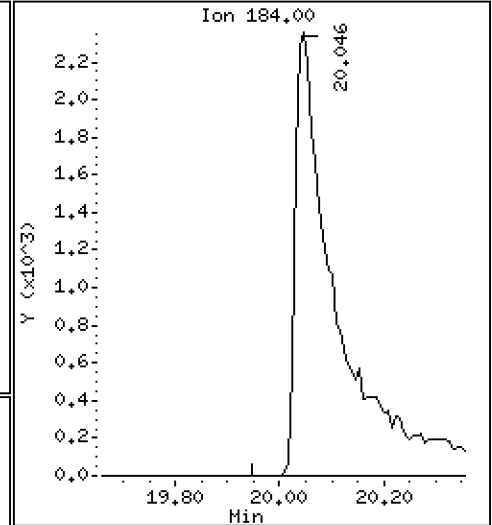
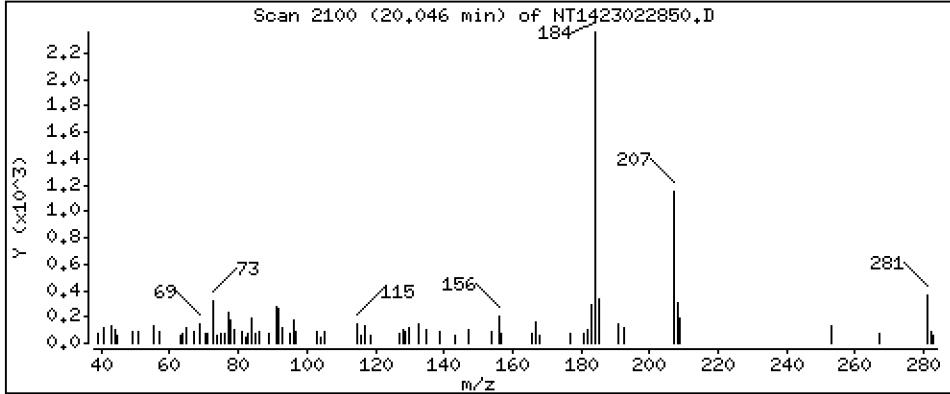
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,2674 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

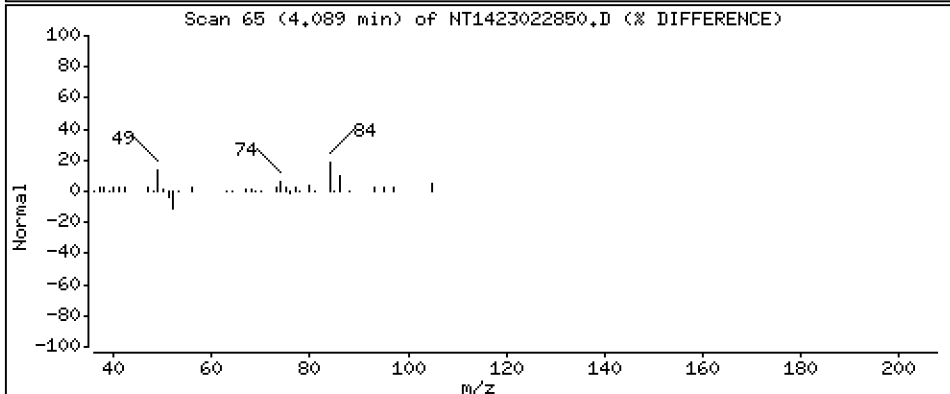
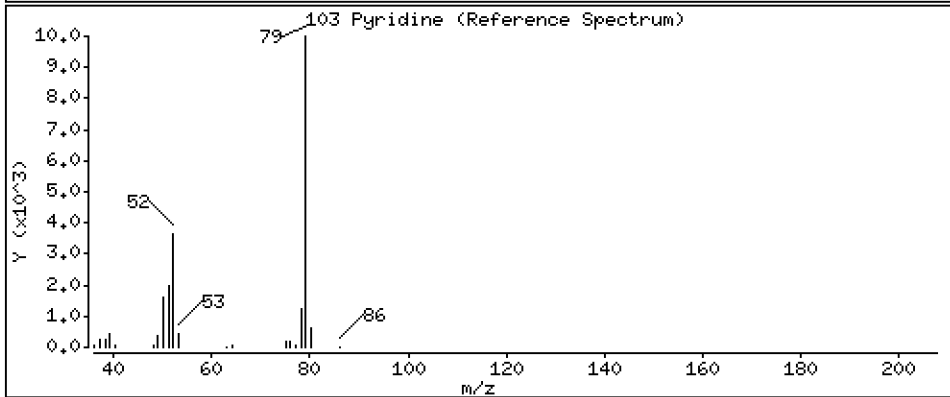
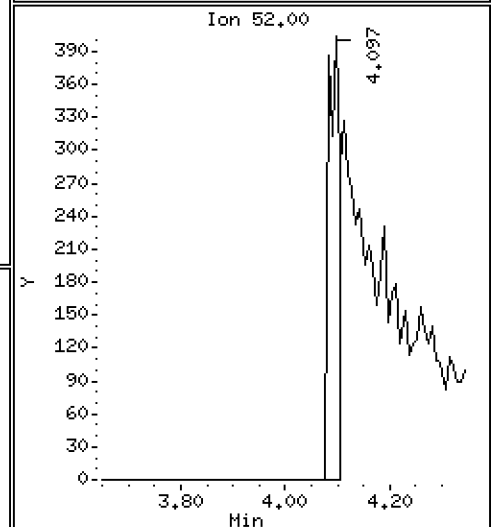
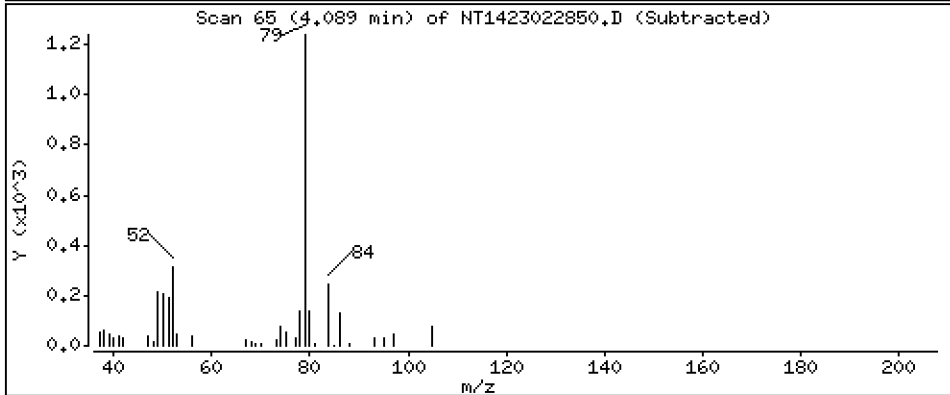
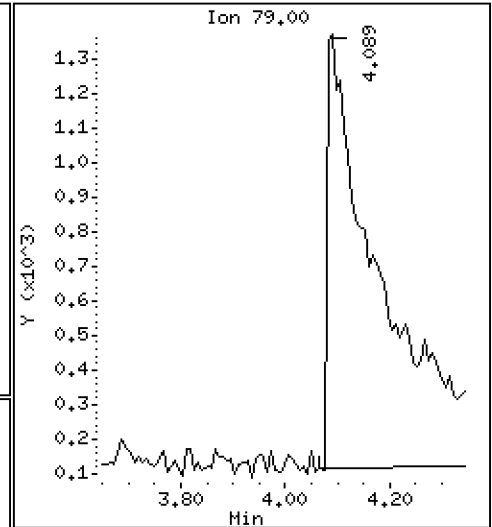
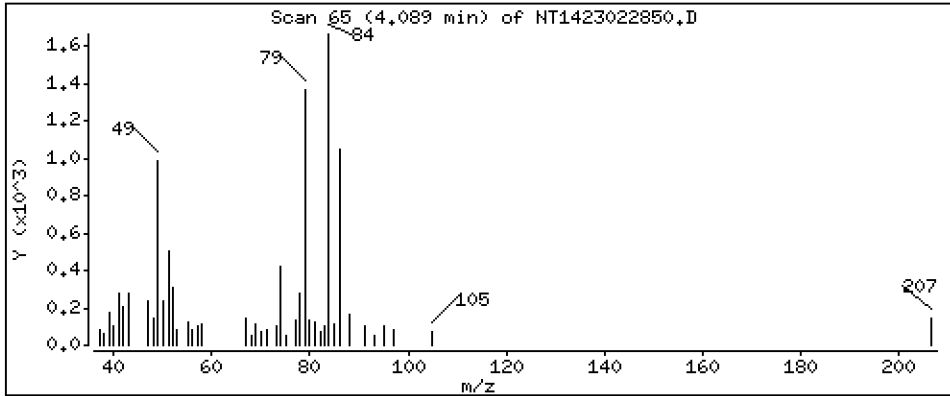
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

103 Pyridine

Concentration: 0.1595 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

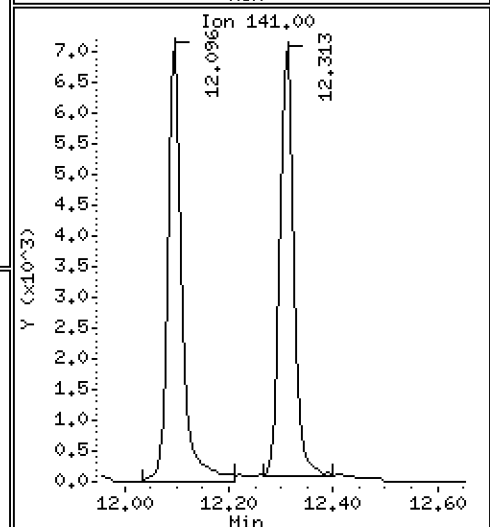
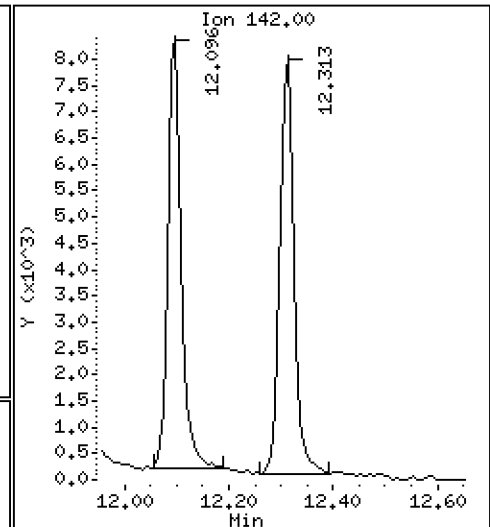
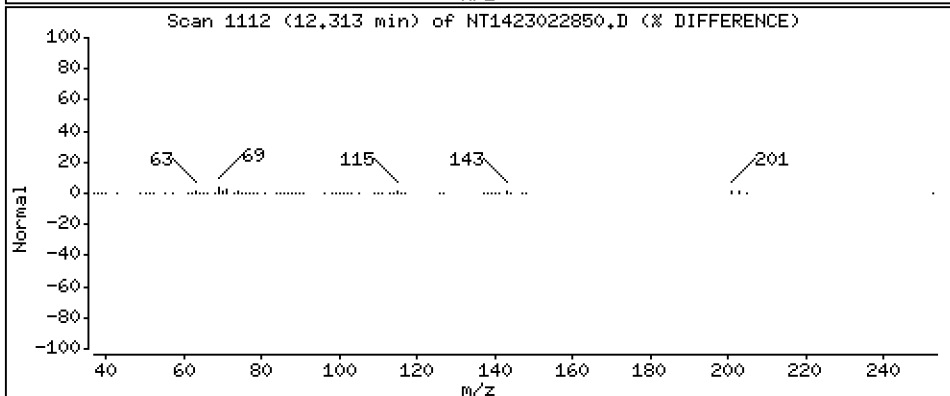
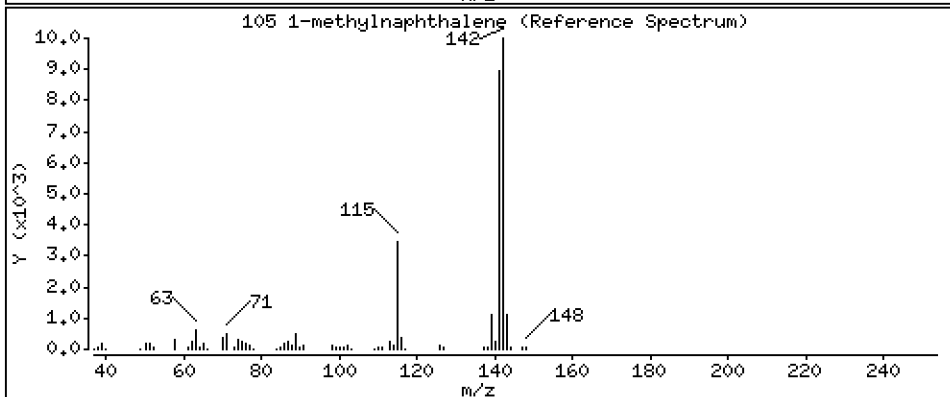
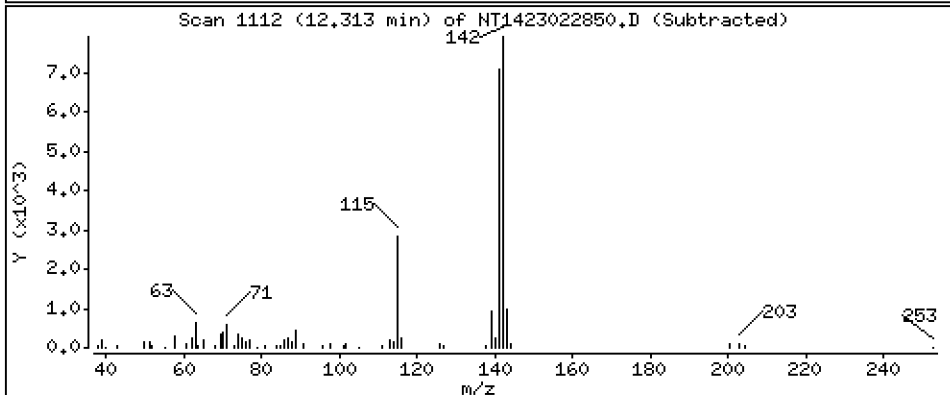
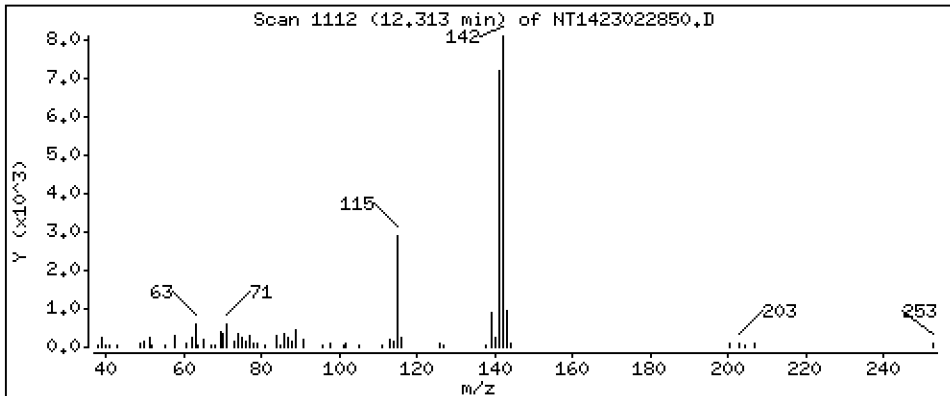
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,1941 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

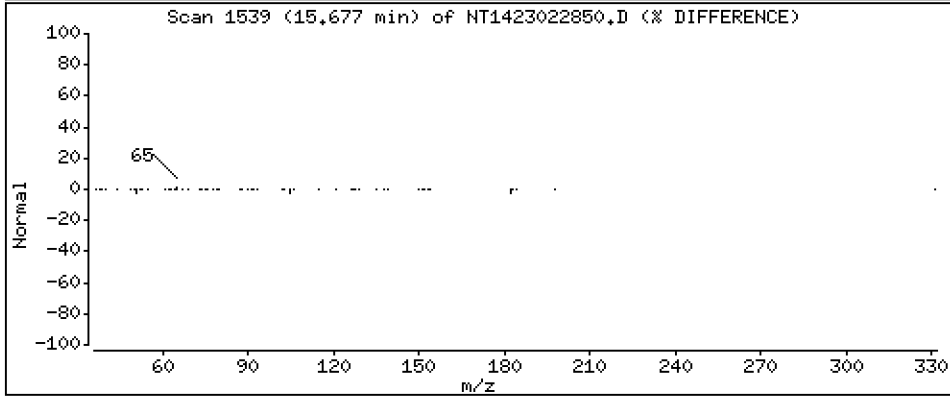
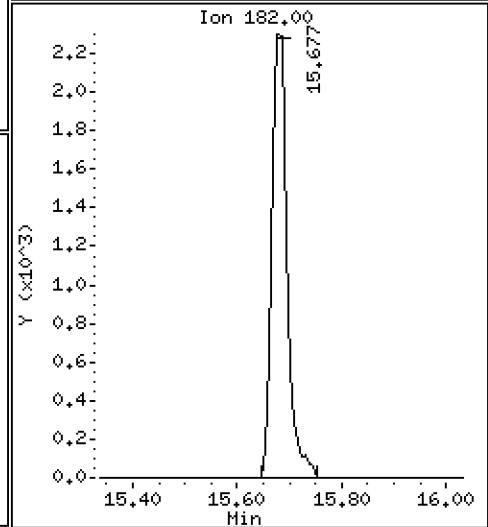
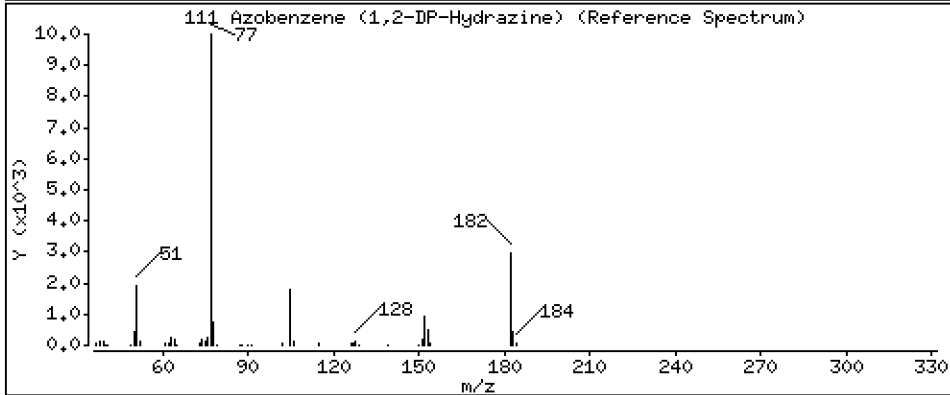
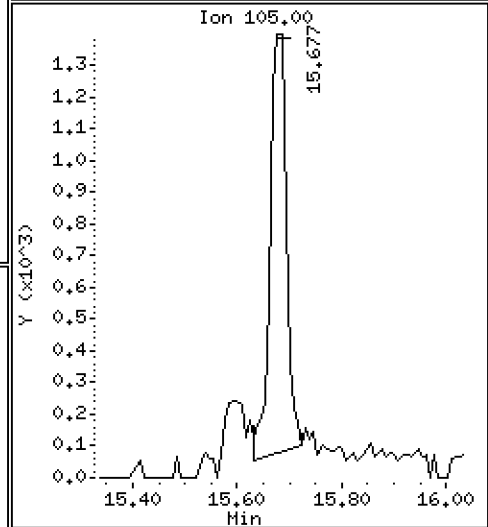
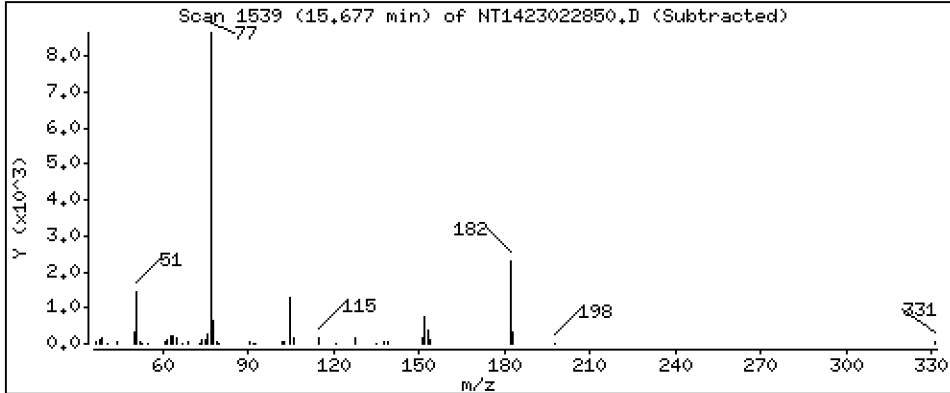
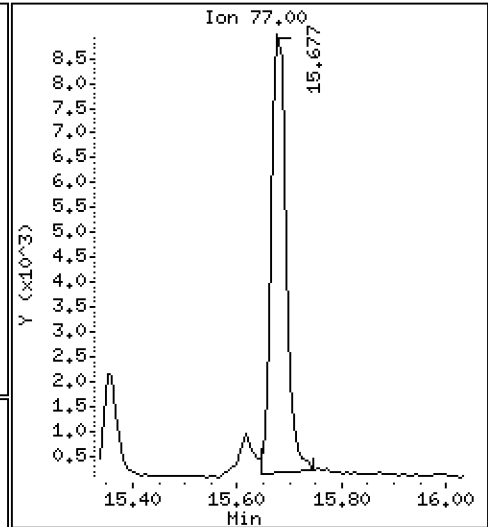
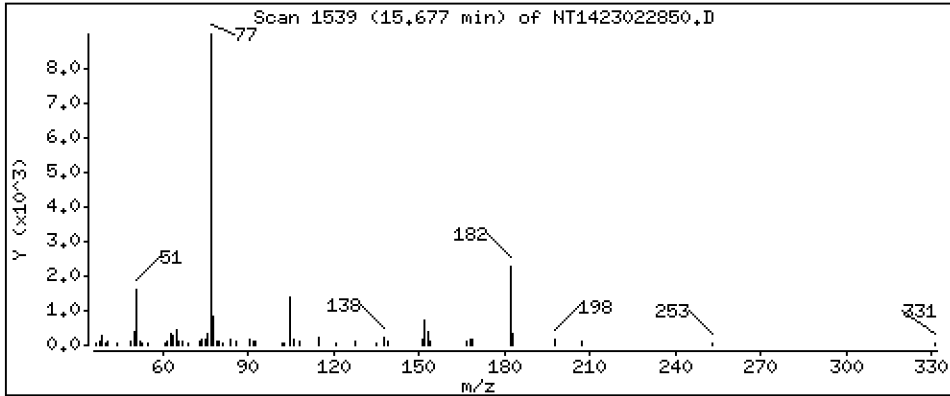
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,2145 ug/mL





Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

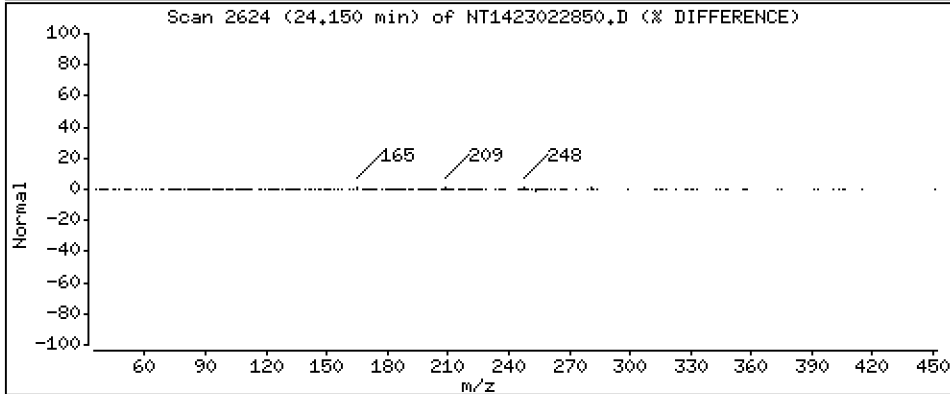
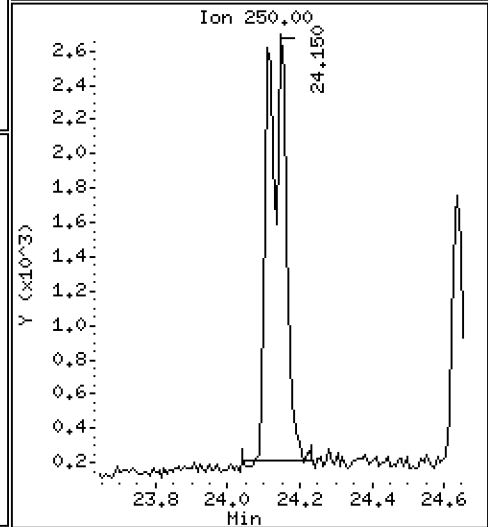
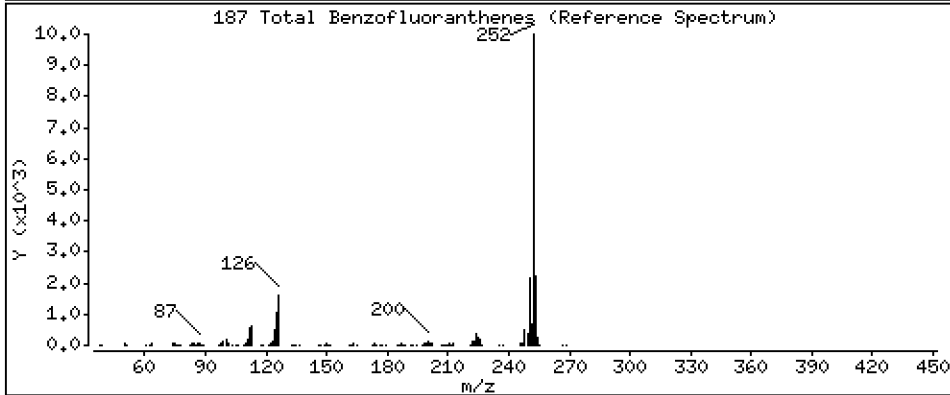
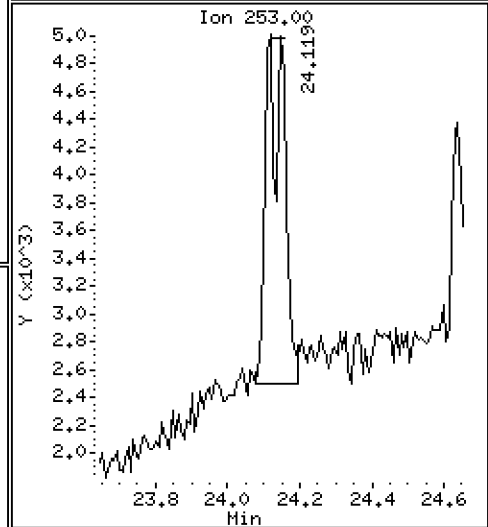
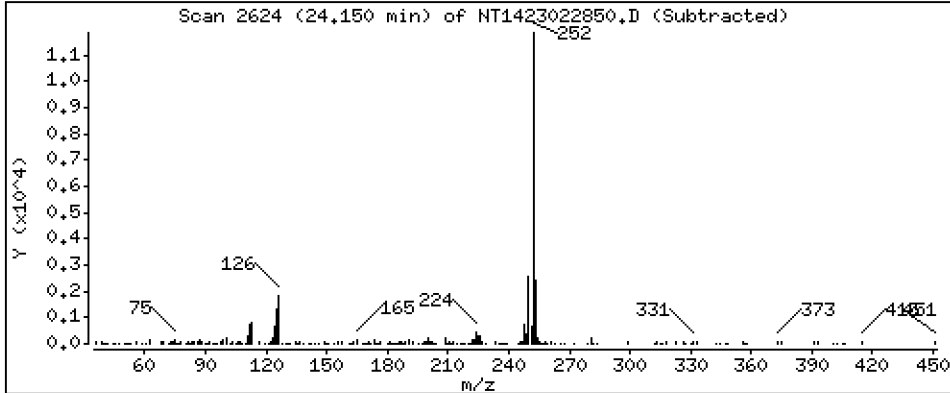
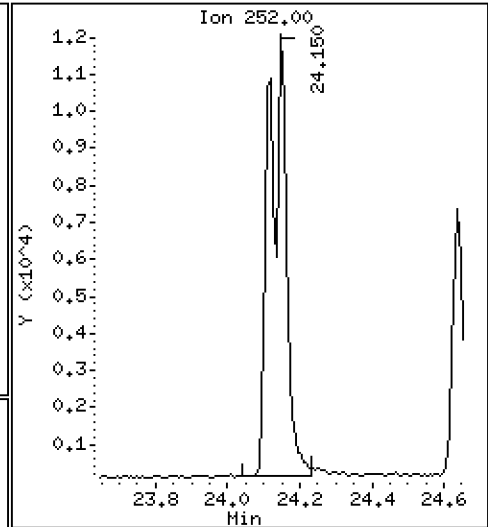
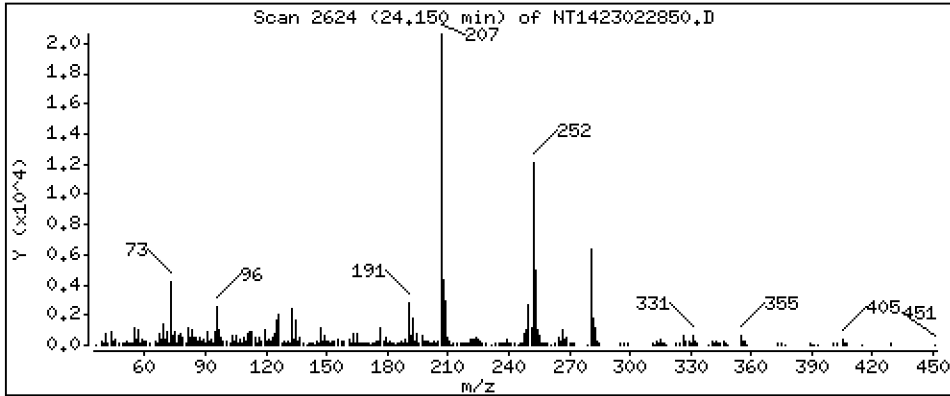
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,5206 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

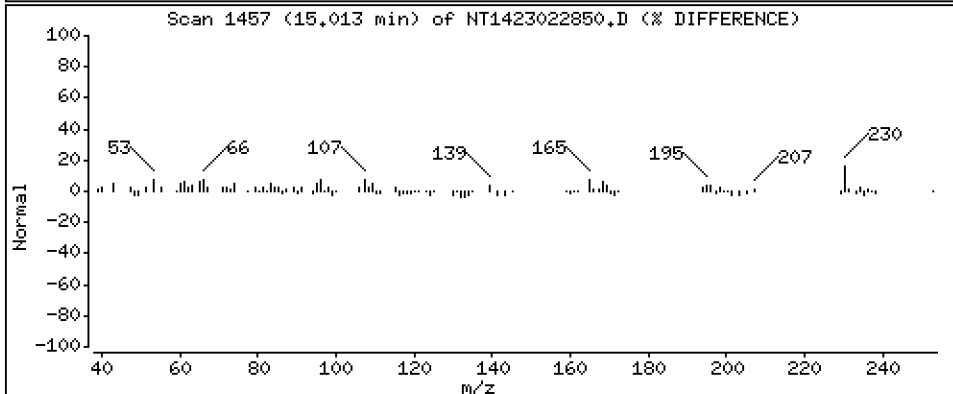
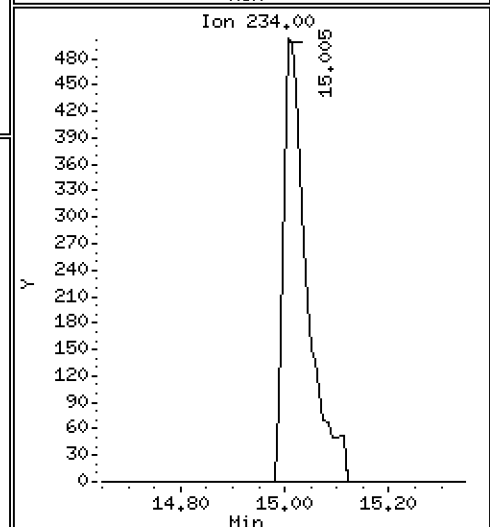
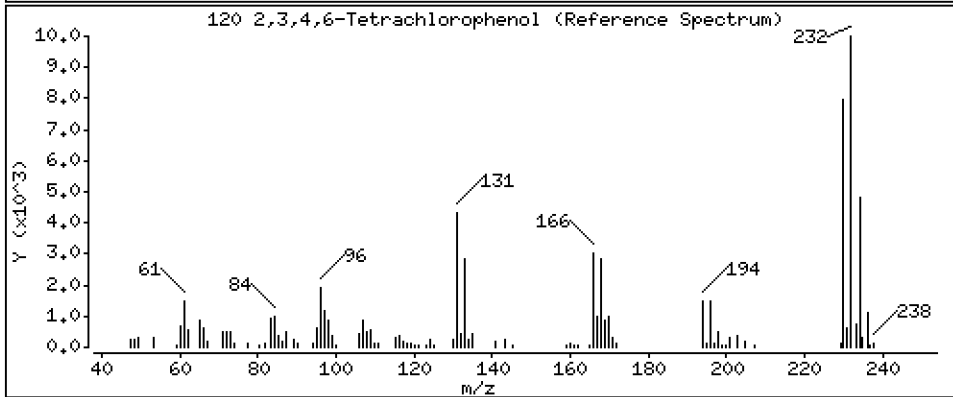
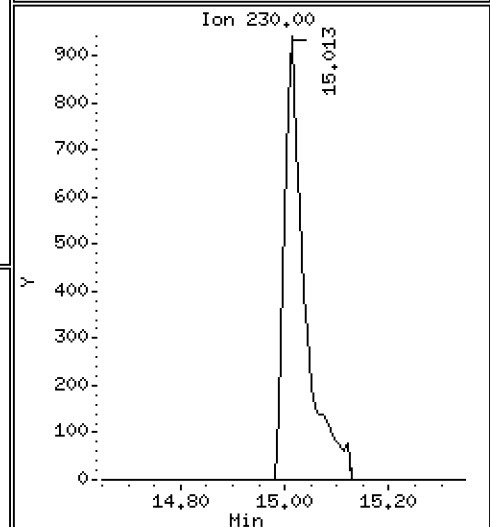
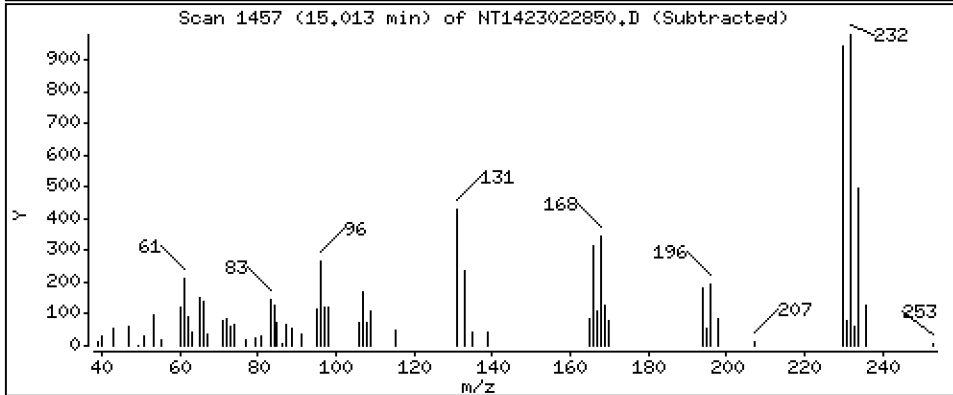
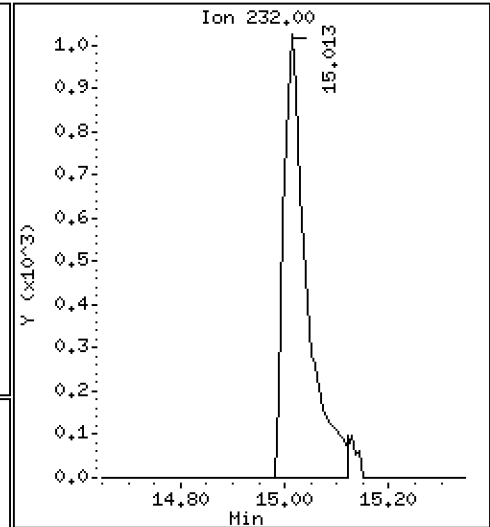
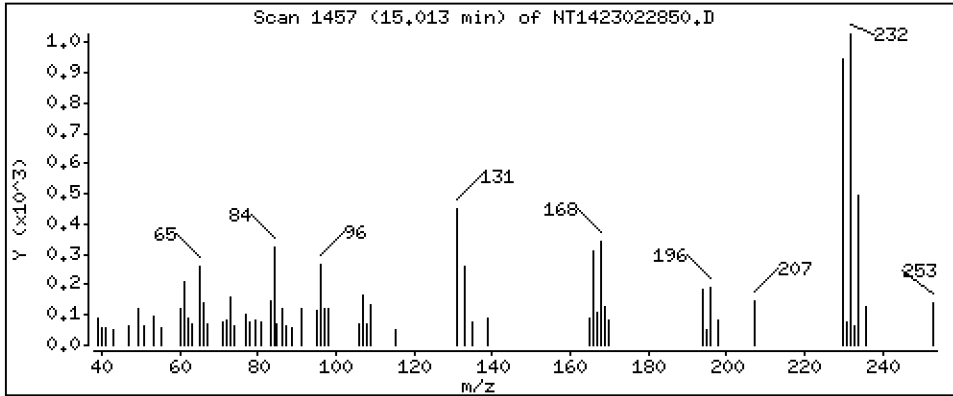
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1313 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022850.D  
 Lab Smp Id: SLB0374-LCV5  
 Inj Date : 02-MAR-2023 07:04 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-LCV5  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 11-Mar-2023 13:20 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 8  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |             |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-------------|
|                                 |       |     |                        |        |         |          | ON-COLUMN      | FINAL       |
|                                 | MASS  |     |                        |        |         |          | (ug/mL)        | (ug/mL)     |
| \$ 1 2-Fluorophenol             | 112   |     | 6.081                  | 6.066  | (0.741) | 6760     | 0.21593        | 0.2159      |
| \$ 2 Phenol-d5                  | 99    |     | 7.665                  | 7.650  | (0.934) | 10511    | 0.23647        | 0.2365      |
| 3 Phenol                        | 94    |     | 7.696                  | 7.673  | (0.938) | 8829     | 0.16648        | 0.1665      |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.874                  | 7.858  | (0.959) | 10636    | 0.28141        | 0.2814      |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.796                  | 7.789  | (0.950) | 8859     | 0.23657        | 0.2366      |
| 6 2-Chlorophenol                | 128   |     | 7.897                  | 7.889  | (0.962) | 8131     | 0.20814        | 0.2081      |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.145                  | 8.137  | (0.992) | 9218     | 0.21412        | 0.2141      |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.207                  | 8.207  | (1.000) | 115459   | 4.00000        |             |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.238                  | 8.238  | (1.004) | 8848     | 0.20795        | 0.2080      |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.564                  | 8.556  | (1.043) | 5515     | 0.19382        | 0.1938      |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.587                  | 8.579  | (1.046) | 8604     | 0.21089        | 0.2109      |
| 11 Benzyl alcohol               | 108   |     | 8.680                  | 8.517  | (1.058) | 1896     | 0.08203        | 0.08203 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.796                  | 8.797  | (1.072) | 2226     | 0.20231        | 0.2023      |
| 13 2-Methylphenol               | 108   |     | 8.781                  | 8.758  | (1.070) | 5822     | 0.17377        | 0.1738      |
| 17 Hexachloroethane             | 117   |     | 9.161                  | 9.162  | (1.116) | 2411     | 0.15089        | 0.1509      |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.060                  | 9.061  | (1.104) | 5410     | 0.21207        | 0.2121      |
| 15 4-Methylphenol               | 108   |     | 9.068                  | 9.037  | (1.105) | 5461     | 0.13986        | 0.1399      |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.309                  | 9.293  | (0.873) | 8210     | 0.20476        | 0.2048      |
| 19 Nitrobenzene                 | 77    |     | 9.340                  | 9.332  | (0.876) | 7891     | 0.20481        | 0.2048      |
| 20 Isophorone                   | 82    |     | 9.782                  | 9.782  | (0.918) | 9880     | 0.16404        | 0.1640      |
| 21 2-Nitrophenol                | 139   |     | 9.968                  | 9.953  | (0.935) | 2607     | 0.13075        | 0.1308      |
| 22 2,4-Dimethylphenol           | 107   |     | 10.069                 | 10.054 | (0.945) | 14284    | 0.40666        | 0.4067      |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.240                 | 10.232 | (0.961) | 7037     | 0.18167        | 0.1817      |
| 24 Benzoic acid                 | 105   |     | Compound Not Detected. |        |         |          |                |             |
| 25 2,4-Dichlorophenol           | 162   |     | 10.456                 | 10.418 | (0.981) | 11736    | 0.32933        | 0.3293 (M)  |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.588                 | 10.580 | (0.993) | 7761     | 0.19551        | 0.1955      |
| * 27 Naphthalene-d8             | 136   |     | 10.657                 | 10.665 | (1.000) | 409877   | 4.00000        |             |
| 28 Naphthalene                  | 128   |     | 10.703                 | 10.704 | (1.004) | 23851    | 0.21816        | 0.2182      |
| 29 4-Chloroaniline              | 127   |     | 10.889                 | 10.866 | (1.022) | 16021    | 0.34260        | 0.3426 (M)  |
| 30 Hexachlorobutadiene          | 225   |     | 11.074                 | 11.074 | (1.039) | 4389     | 0.18119        | 0.1812      |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.887                 | 11.856 | (1.115) | 10848    | 0.34311        | 0.3431      |
| 32 2-Methylnaphthalene          | 142   |     | 12.096                 | 12.088 | (1.135) | 14942    | 0.18455        | 0.1846      |
| 33 Hexachlorocyclopentadiene    | 237   |     | Compound Not Detected. |        |         |          |                |             |

| Compounds                         | QUANT | SIG |                        |        |         |        |          | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|------------------------|--------|---------|--------|----------|----------------------|------------------|
|                                   |       |     | MASS                   | RT     | EXP RT  | REL RT | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     | 12.746                 | 12.731 | (0.895) | 7293   | 0.32414  | 0.3241               |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     | 12.839                 | 12.808 | (0.901) | 10192  | 0.41896  | 0.4190 (M)           |                  |
| § 36 2-Fluorobiphenyl             | 172   |     | 12.885                 | 12.885 | (0.904) | 18644  | 0.20797  | 0.2080               |                  |
| 37 2-Chloronaphthalene            | 162   |     | 13.079                 | 13.071 | (0.918) | 14974  | 0.20837  | 0.2084               |                  |
| 38 2-Nitroaniline                 | 65    |     | 13.380                 | 13.365 | (0.939) | 6886   | 0.36740  | 0.3674               |                  |
| 39 Dimethylphthalate              | 163   |     | 13.806                 | 13.806 | (0.969) | 15187  | 0.20963  | 0.2096               |                  |
| 40 Acenaphthylene                 | 152   |     | 13.930                 | 13.930 | (0.978) | 23028  | 0.21838  | 0.2184               |                  |
| 41 2,6-Dinitrotoluene             | 165   |     | 13.938                 | 13.938 | (0.978) | 6188   | 0.36449  | 0.3645               |                  |
| * 42 Acenaphthene-d10             | 164   |     | 14.247                 | 14.247 | (1.000) | 230328 | 4.00000  |                      |                  |
| 43 3-Nitroaniline                 | 138   |     | 14.255                 | 14.216 | (1.001) | 5369   | 0.30856  | 0.3086 (M)           |                  |
| 44 Acenaphthene                   | 153   |     | 14.309                 | 14.309 | (1.004) | 14213  | 0.21052  | 0.2105               |                  |
| 45 2,4-Dinitrophenol              | 184   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 46 Dibenzofuran                   | 168   |     | 14.641                 | 14.642 | (1.028) | 21500  | 0.20014  | 0.2001               |                  |
| 47 4-Nitrophenol                  | 109   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 48 2,4-Dinitrotoluene             | 165   |     | 14.742                 | 14.734 | (1.035) | 7190   | 0.29419  | 0.2942               |                  |
| 50 Diethylphthalate               | 149   |     | 15.252                 | 15.260 | (1.071) | 14688  | 0.21680  | 0.2168               |                  |
| 49 Fluorene                       | 166   |     | 15.345                 | 15.345 | (1.077) | 19196  | 0.21208  | 0.2121               |                  |
| 51 4-Chlorophenyl-phenylether     | 204   |     | 15.361                 | 15.361 | (1.078) | 9443   | 0.19608  | 0.1961               |                  |
| 52 4-Nitroaniline                 | 138   |     | 15.538                 | 15.484 | (1.091) | 5026   | 0.29139  | 0.2914 (M)           |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     | 15.584                 | 15.569 | (0.903) | 2288   | 0.16480  | 0.1648 (M)           |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     | 15.615                 | 15.615 | (0.905) | 11367  | 0.21653  | 0.2165               |                  |
| § 55 2,4,6-Tribromophenol         | 330   |     | 15.893                 | 15.885 | (1.116) | 2778   | 0.22458  | 0.2246               |                  |
| 56 4-Bromophenyl-phenylether      | 248   |     | 16.348                 | 16.348 | (0.948) | 4444   | 0.19255  | 0.1925               |                  |
| 57 Hexachlorobenzene              | 284   |     | 16.641                 | 16.642 | (0.965) | 5111   | 0.20142  | 0.2014               |                  |
| 58 Pentachlorophenol              | 266   |     | 17.052                 | 17.013 | (0.988) | 1731   | 0.14503  | 0.1450 (M)           |                  |
| * 59 Phenanthrene-d10             | 188   |     | 17.253                 | 17.253 | (1.000) | 417754 | 4.00000  |                      |                  |
| 60 Phenanthrene                   | 178   |     | 17.299                 | 17.299 | (1.003) | 23378  | 0.21036  | 0.2104               |                  |
| 61 Anthracene                     | 178   |     | 17.392                 | 17.392 | (1.008) | 21508  | 0.20472  | 0.2047               |                  |
| 62 Carbazole                      | 167   |     | 17.763                 | 17.748 | (1.030) | 17276  | 0.18762  | 0.1876               |                  |
| 63 Di-n-butylphthalate            | 149   |     | 18.599                 | 18.599 | (1.078) | 22997  | 0.19336  | 0.1934               |                  |
| 64 Fluoranthene                   | 202   |     | 19.729                 | 19.729 | (0.882) | 23601  | 0.17631  | 0.1763               |                  |
| 65 Pyrene                         | 202   |     | 20.154                 | 20.154 | (0.901) | 25934  | 0.18375  | 0.1838               |                  |
| § 66 Terphenyl-d14                | 244   |     | 20.487                 | 20.479 | (0.916) | 19507  | 0.17951  | 0.1795               |                  |
| 67 Butylbenzylphthalate           | 149   |     | 21.447                 | 21.447 | (0.958) | 9988   | 0.19992  | 0.1999               |                  |
| 68 Benzo(a)anthracene             | 228   |     | 22.345                 | 22.353 | (0.999) | 26073  | 0.22060  | 0.2206               |                  |
| * 69 Chrysene-d12                 | 240   |     | 22.376                 | 22.376 | (1.000) | 352830 | 4.00000  |                      |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     | 22.337                 | 22.338 | (0.998) | 24208  | 0.71722  | 0.7172               |                  |
| 71 Chrysene                       | 228   |     | 22.415                 | 22.423 | (1.002) | 24137  | 0.21247  | 0.2125               |                  |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 22.500                 | 22.500 | (0.958) | 13826  | 0.18117  | 0.1812               |                  |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 23.483                 | 23.483 | (1.000) | 499736 | 4.00000  |                      |                  |
| 73 Di-n-octylphthalate            | 149   |     | 23.491                 | 23.491 | (1.000) | 27092  | 0.20590  | 0.2059               |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 24.118                 | 24.118 | (0.975) | 19800  | 0.25024  | 0.2502               |                  |
| 75 Benzo(k)fluoranthene           | 252   |     | 24.149                 | 24.149 | (0.977) | 22676  | 0.26565  | 0.2656               |                  |
| 76 Benzo(a)pyrene                 | 252   |     | 24.637                 | 24.637 | (0.996) | 14828  | 0.21844  | 0.2184               |                  |
| * 77 Perylene-d12                 | 264   |     | 24.730                 | 24.730 | (1.000) | 239484 | 4.00000  |                      |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 26.831                 | 26.808 | (1.085) | 7715   | 0.09029  | 0.09029              |                  |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 26.839                 | 26.824 | (1.085) | 6623   | 0.09126  | 0.09126              |                  |
| 80 Benzo(g,h,i)perylene           | 276   |     | 27.429                 | 27.414 | (1.109) | 5371   | 0.07207  | 0.07207              |                  |
| 90 N-Nitrosodimethylamine         | 74    |     | 4.019                  | 3.996  | (0.490) | 8510   | 0.35840  | 0.3584 (M)           |                  |
| 91 Aniline                        | 93    |     | 7.704                  | 7.689  | (0.939) | 16641  | 0.30355  | 0.3036               |                  |
| 93 Benzidine                      | 184   |     | 20.046                 | 20.007 | (0.896) | 15312  | 0.26739  | 0.2674 (M)           |                  |
| 103 Pyridine                      | 79    |     | 4.089                  | 3.996  | (0.498) | 11188  | 0.15953  | 0.1595 (M)           |                  |
| 105 1-methylnaphthalene           | 142   |     | 12.312                 | 12.305 | (1.155) | 14471  | 0.19414  | 0.1941               |                  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     | 15.677                 | 15.685 | (1.100) | 16686  | 0.21454  | 0.2145               |                  |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 24.149 | 24.149 | (0.977) | 40295    | 0.52061              | 0.5206           |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 15.012 | 14.997 | (1.054) | 3401     | 0.13127              | 0.1313           |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 02-MAR-2023  
 Lab File ID: NT1423022850.D Calibration Time: 05:52  
 Lab Smp Id: SLB0374-LCV5  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 116519   | 58260      | 233038  | 115459 | -0.91  |
| 27 Naphthalene-d8     | 429090   | 214545     | 858180  | 409877 | -4.48  |
| 42 Acenaphthene-d10   | 250637   | 125319     | 501274  | 230328 | -8.10  |
| 59 Phenanthrene-d10   | 458117   | 229059     | 916234  | 417754 | -8.81  |
| 69 Chrysene-d12       | 393468   | 196734     | 786936  | 352830 | -10.33 |
| 134 Di-n-octylphthala | 572636   | 286318     | 1145272 | 499736 | -12.73 |
| 77 Perylene-d12       | 283320   | 141660     | 566640  | 239484 | -15.47 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.21   | -0.00 |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.66  | -0.07 |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.25  | -0.00 |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.25  | -0.00 |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.38  | -0.00 |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.48  | -0.00 |
| 77 Perylene-d12       | 24.73    | 24.23    | 25.23 | 24.73  | -0.00 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022850.D

Lab ID: SLB0374-LCV5  
nt14.i, ABN.m, 02-MAR-2023 07:04

RT CO-ELUTION COMPOUNDS

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NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND       |
|-------|---------|--------|----------------|
| 1.058 | 1.038   | 0.0199 | Benzyl alcohol |
| 0.498 | 0.487   | 0.0113 | Pyridine       |

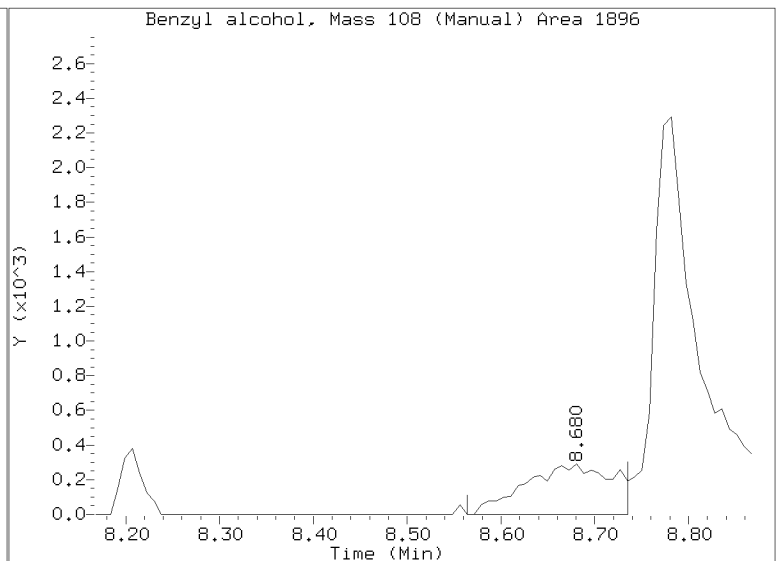
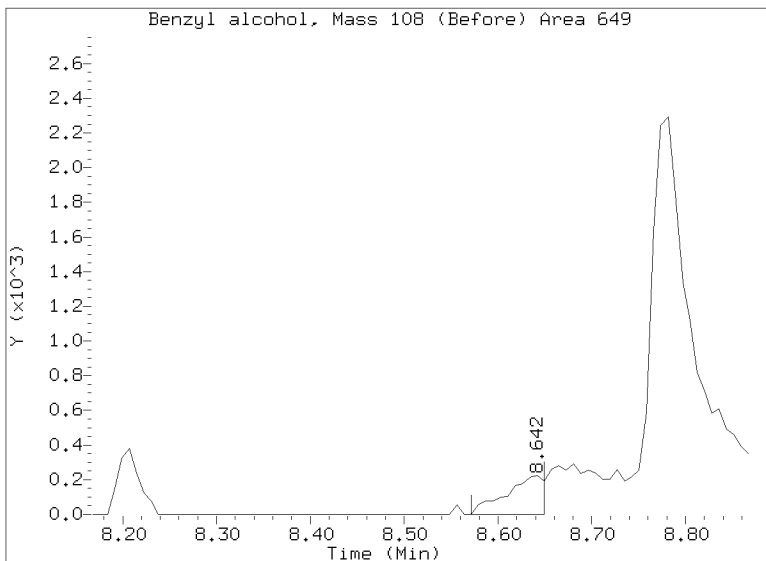
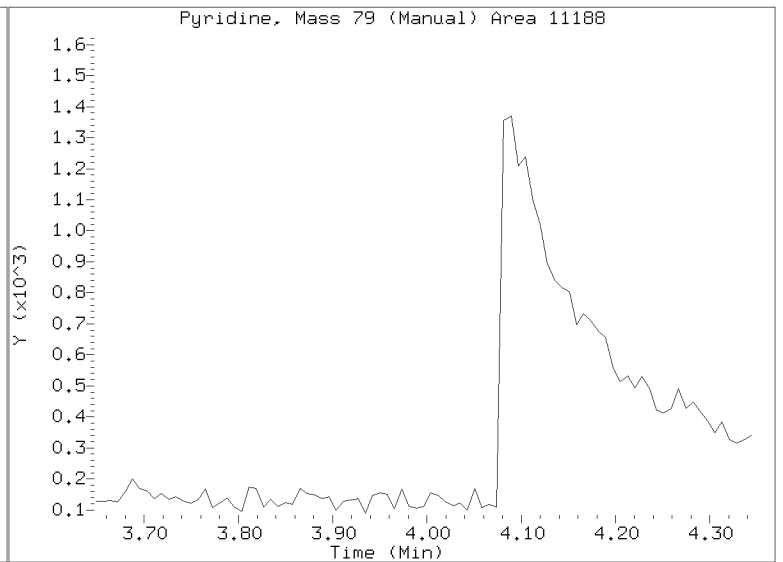
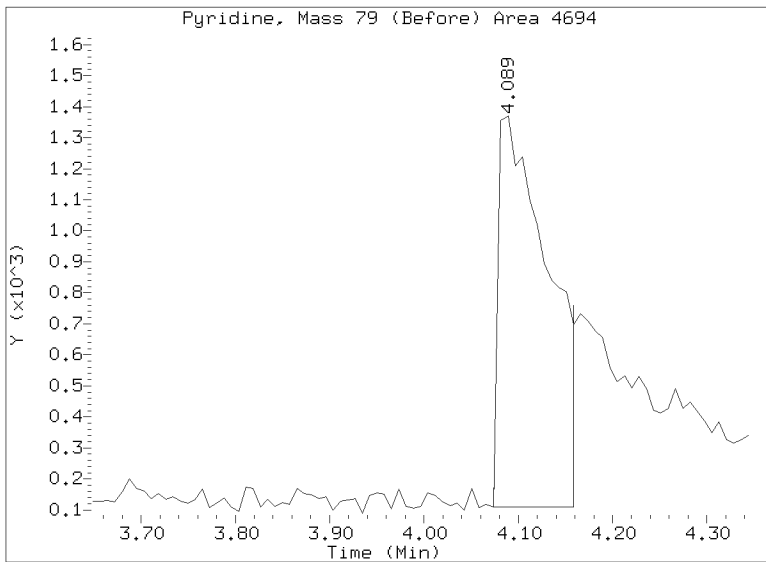
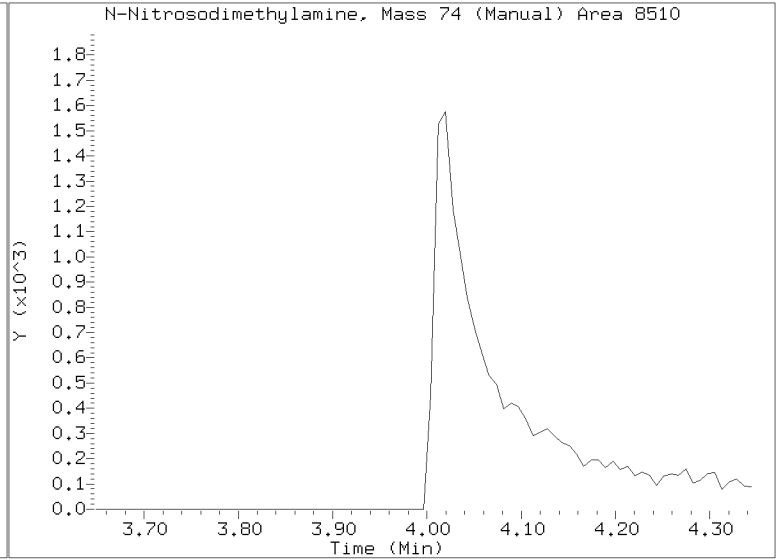
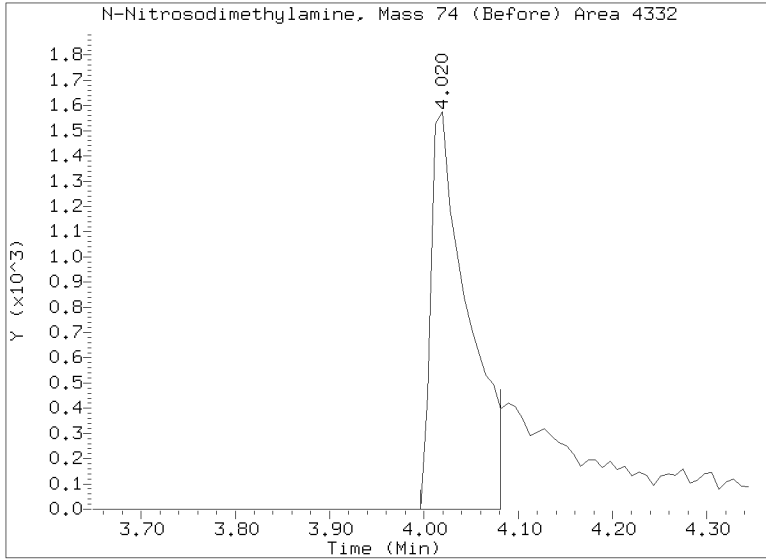
RRT check based on Ccal File: NT1423022848.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

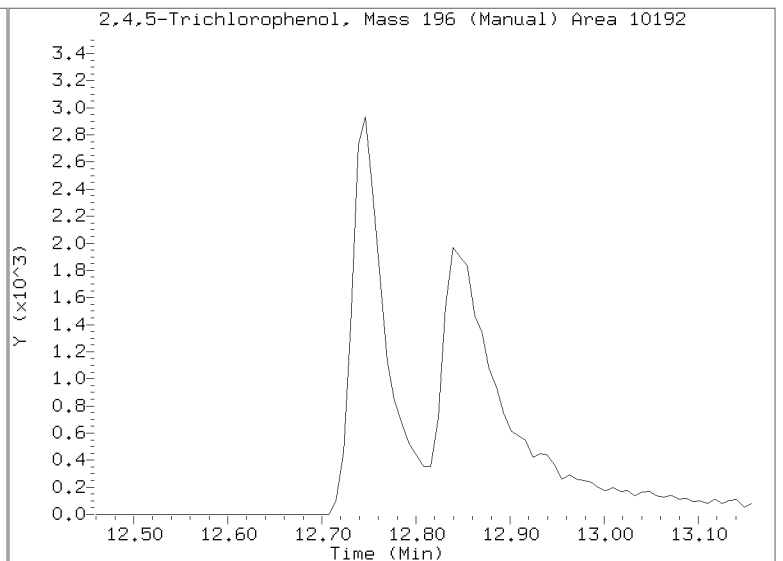
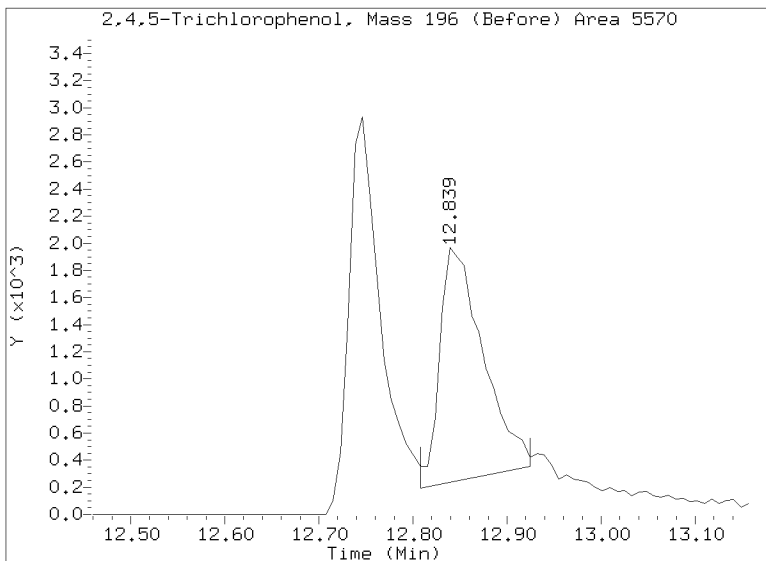
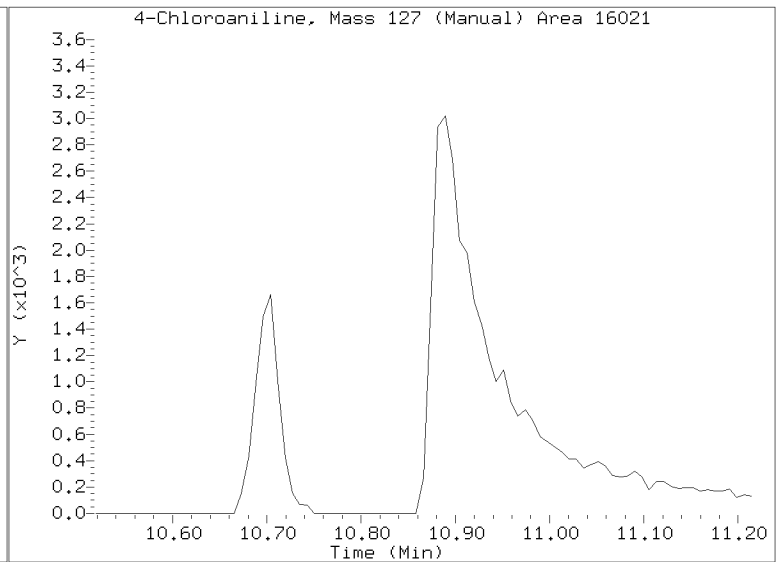
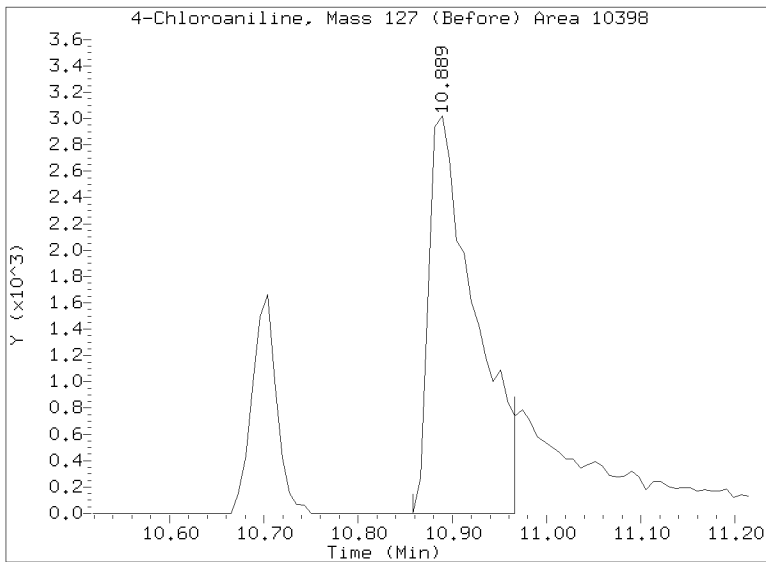
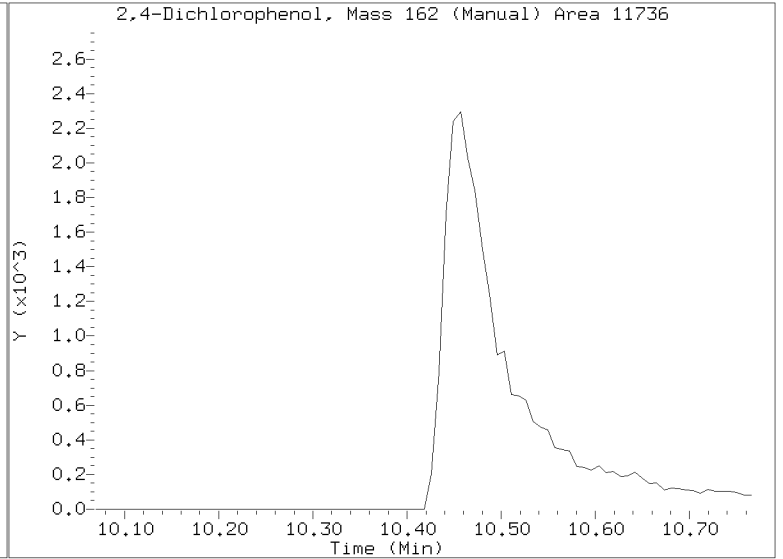
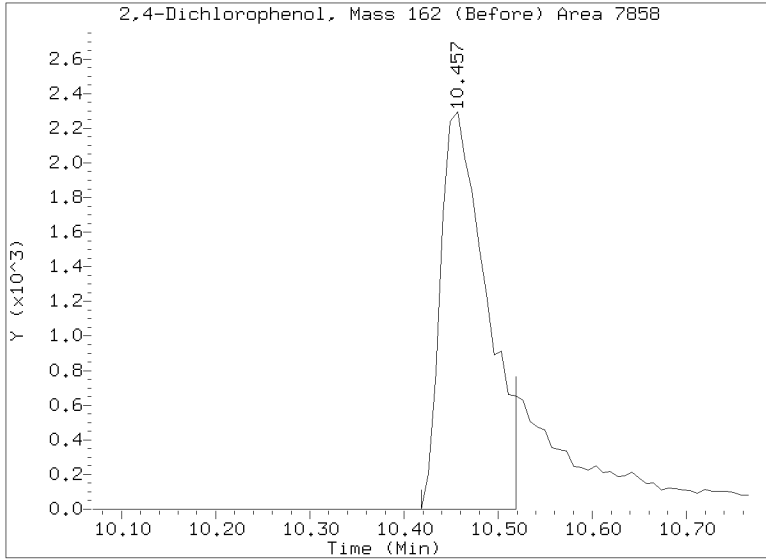
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Injection Date: 02-MAR-2023 07:04  
Lab ID:SLB0374-LCV5 Client ID:  
Report Date: 03/14/2023 08:43





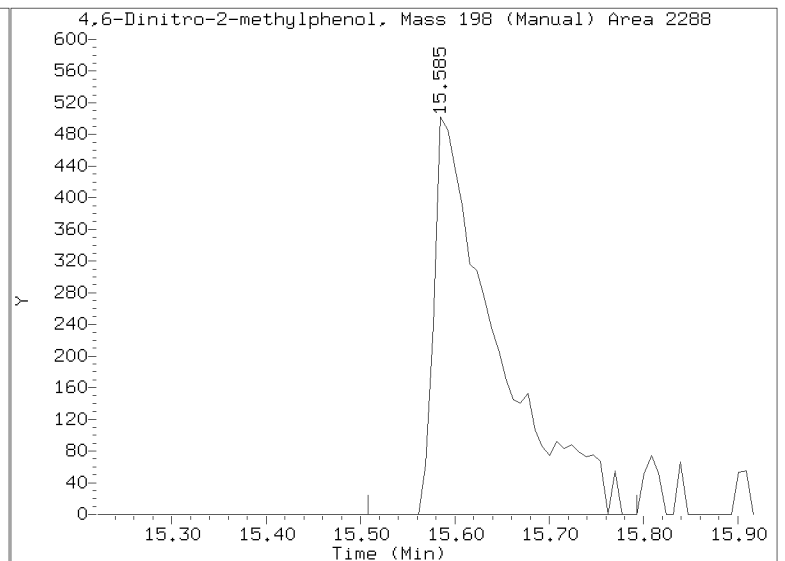
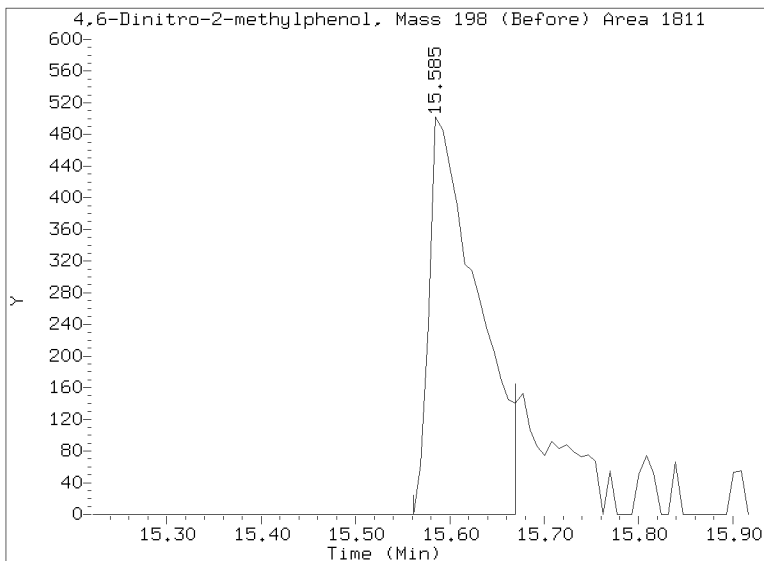
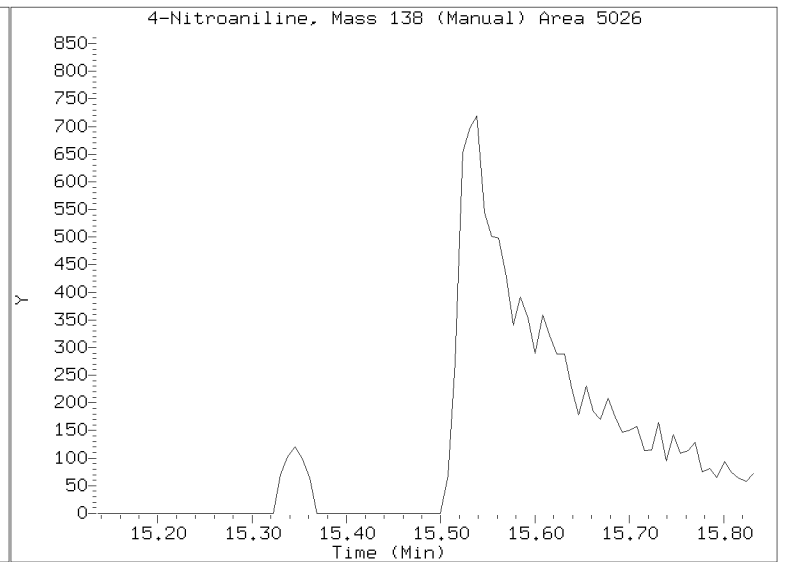
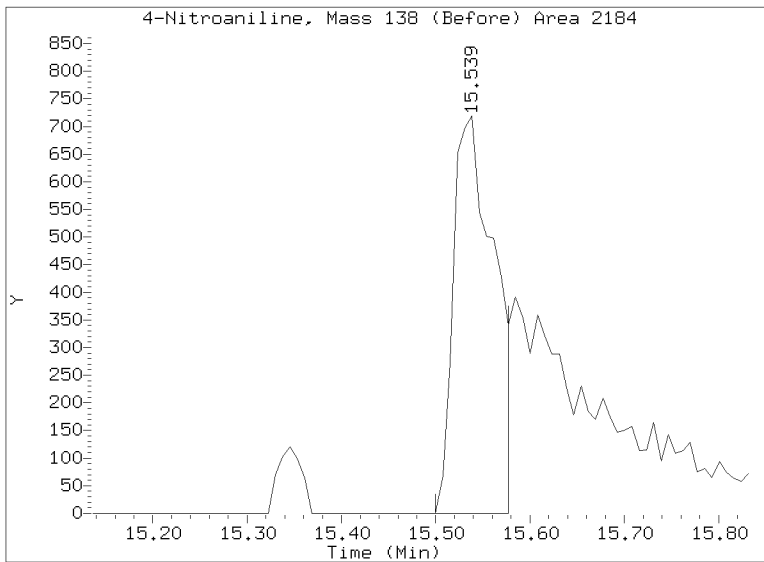
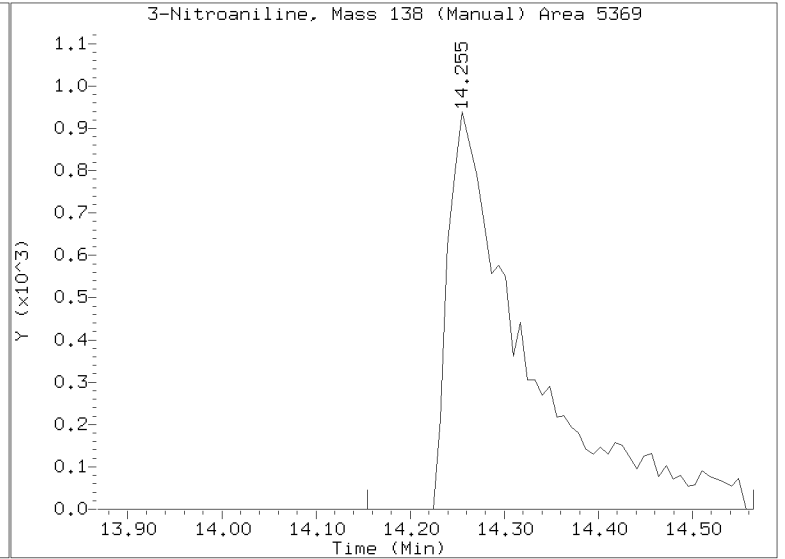
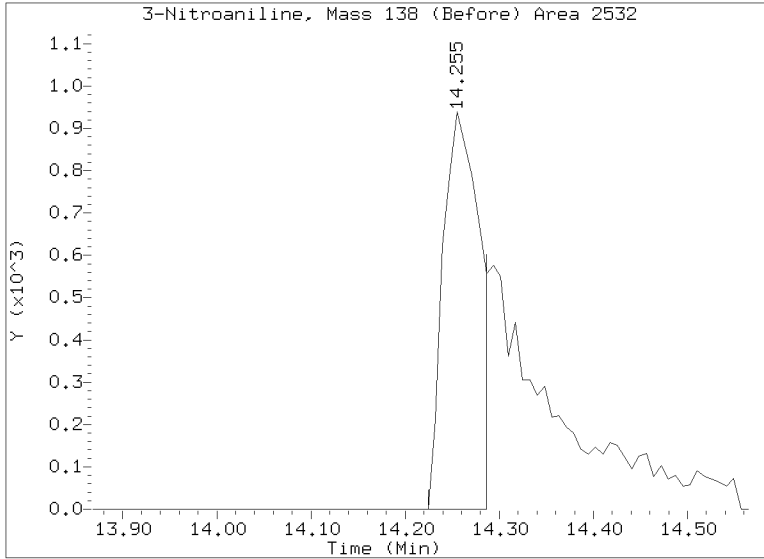
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Injection Date: 02-MAR-2023 07:04  
Lab ID:SLB0374-LCV5 Client ID:  
Report Date: 03/14/2023 08:43



# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022850.D  
Injection Date: 02-MAR-2023 07:04  
Lab ID: SLB0374-LCV5 Client ID:  
Report Date: 03/14/2023 08:43



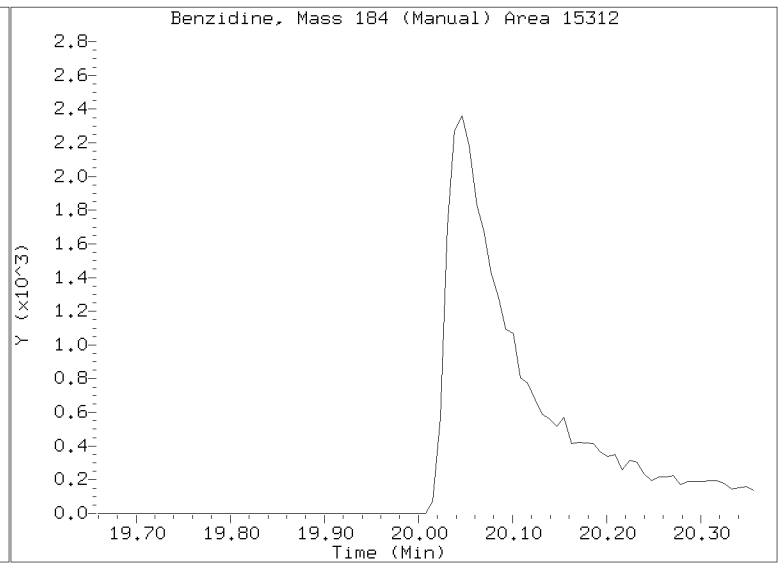
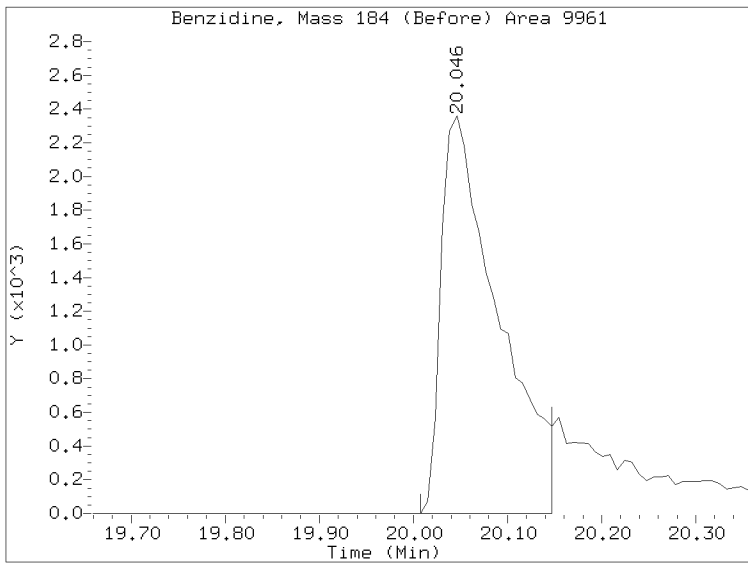
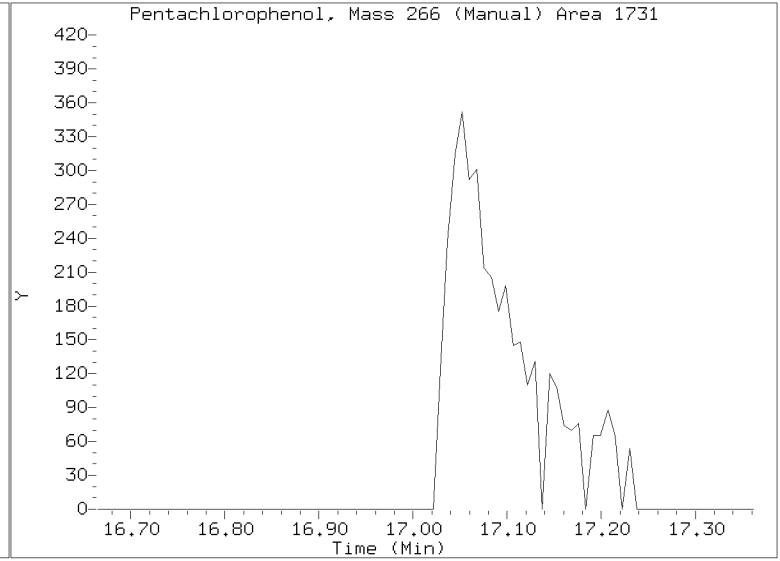
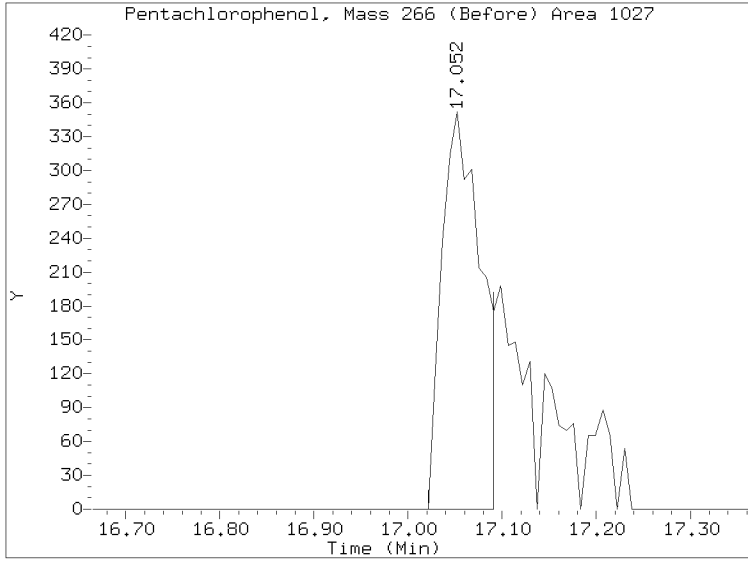
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022850.D

Injection Date: 02-MAR-2023 07:04

Lab ID:SLB0374-LCV5 Client ID:

Report Date: 03/14/2023 08:43





LOW-CONCENTRATION  
CONTINUING CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022851.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/02/23

Lab Sample ID: SLB0374-LCV6

Injection Time: 07:40

Sequence Name: ABN 0.5

| COMPOUND                     | TYPE | CONC. (ug/mL) |       | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|------------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|---------|
|                              |      | STD           | CCV   | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| Phenol                       | A    | 0.50000       | 0.5   | 1.8373500             | 1.8337760 |     | -0.2         | +/-50   |
| bis(2-chloroethyl) ether     | A    | 0.50000       | 0.5   | 1.5312550             | 1.4047530 |     | 8.5          | +/-50   |
| 2-Chlorophenol               | A    | 0.50000       | 0.6   | 1.3533690             | 1.4922090 |     | 10.3         | +/-50   |
| 1,3-Dichlorobenzene          | A    | 0.50000       | 0.5   | 1.4914740             | 1.5978320 |     | 7.1          | +/-50   |
| 1,4-Dichlorobenzene          | A    | 0.50000       | 0.5   | 1.4740600             | 1.5697570 |     | 6.5          | +/-50   |
| 1,2-Dichlorobenzene          | A    | 0.50000       | 0.5   | 1.4134490             | 1.4850290 |     | 5.1          | +/-50   |
| Benzyl Alcohol               | A    | 0.50000       | 0.3   | 0.6439892             | 0.4448194 |     | -44.5        | +/-50   |
| 2,2'-Oxybis(1-chloropropane) | A    | 0.50000       | 0.5   | 0.3811859             | 0.4096360 |     | 7.5          | +/-50   |
| 2-Methylphenol               | A    | 0.50000       | 0.5   | 1.1607310             | 1.1869750 |     | 2.3          | +/-50   |
| Hexachloroethane             | A    | 0.50000       | 0.4   | 0.5535732             | 0.4317513 |     | -22.0        | +/-50   |
| N-Nitroso-di-n-Propylamine   | A    | 0.50000       | 0.6   | 0.8837751             | 1.0829320 |     | 22.5         | +/-50   |
| 4-Methylphenol               | A    | 0.50000       | 0.4   | 1.1353050             | 1.1111510 |     | -17.8        | +/-50   |
| Nitrobenzene                 | A    | 0.50000       | 0.5   | 0.3760061             | 0.4080835 |     | 8.5          | +/-50   |
| Isophorone                   | A    | 0.50000       | 0.5   | 0.4996273             | 0.5858380 |     | -0.2         | +/-50   |
| 2-Nitrophenol                | A    | 0.50000       | 0.5   | 0.1467597             | 0.1824149 |     | -6.3         | +/-50   |
| 2,4-Dimethylphenol           | A    | 1.0000        | 1.0   | 0.3427845             | 0.3540214 |     | 3.3          | +/-50   |
| Bis(2-Chloroethoxy)methane   | A    | 0.50000       | 0.5   | 0.3780235             | 0.3791288 |     | 0.3          | +/-50   |
| 2,4-Dichlorophenol           | A    | 1.0000        | 0.8   | 0.2946235             | 0.2691007 |     | -22.4        | +/-50   |
| 1,2,4-Trichlorobenzene       | A    | 0.50000       | 0.5   | 0.3874001             | 0.3788908 |     | -2.2         | +/-50   |
| Naphthalene                  | A    | 0.50000       | 0.5   | 1.0669580             | 1.1301670 |     | 5.9          | +/-50   |
| Benzoic acid                 | A    | 2.0000        | 1.1   | 0.1358415             | 0.0738594 |     | -45.6        | +/-50   |
| 4-Chloroaniline              | A    | 1.0000        | 0.9   | 0.4563565             | 0.3938937 |     | -13.7        | +/-50   |
| Hexachlorobutadiene          | A    | 0.50000       | 0.4   | 0.2363916             | 0.2075818 |     | -12.2        | +/-50   |
| 4-Chloro-3-Methylphenol      | A    | 1.0000        | 1.0   | 0.3085482             | 0.3055520 |     | -1.0         | +/-50   |
| 2-Methylnaphthalene          | A    | 0.50000       | 0.5   | 0.7901196             | 0.7838012 |     | -0.8         | +/-50   |
| Hexachlorocyclopentadiene    | A    | 1.0000        | 0.006 | 0.3443795             | 0.0025649 |     | -99.4        | +/-50 * |
| 2,4,6-Trichlorophenol        | A    | 1.0000        | 0.9   | 0.3907367             | 0.3596869 |     | -7.9         | +/-50   |
| 2,4,5-Trichlorophenol        | A    | 1.0000        | 0.9   | 0.4224702             | 0.3939681 |     | -6.7         | +/-50   |
| 2-Chloronaphthalene          | A    | 0.50000       | 0.5   | 1.2480280             | 1.2998890 |     | 4.2          | +/-50   |
| 2-Nitroaniline               | A    | 1.0000        | 1.1   | 0.3254949             | 0.3564675 |     | 9.5          | +/-50   |
| Acenaphthylene               | A    | 0.50000       | 0.6   | 1.8312950             | 2.0733560 |     | 13.2         | +/-50   |
| Dimethylphthalate            | A    | 0.50000       | 0.6   | 1.2581570             | 1.3999730 |     | 11.3         | +/-50   |
| 2,6-Dinitrotoluene           | A    | 1.0000        | 1.0   | 0.2948315             | 0.3047981 |     | 3.4          | +/-50   |
| Acenaphthene                 | A    | 0.50000       | 0.5   | 1.1724930             | 1.2427900 |     | 6.0          | +/-50   |

\* Values outside of QC limits



LOW-CONCENTRATION  
CONTINUING CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022851.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/02/23

Lab Sample ID: SLB0374-LCV6

Injection Time: 07:40

Sequence Name: ABN 0.5

| COMPOUND                   | TYPE | CONC. (ug/mL) |       | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|----------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|---------|
|                            |      | STD           | CCV   | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| 3-Nitroaniline             | A    | 1.0000        | 0.8   | 0.3021810             | 0.2348384 |     | -22.3        | +/-50   |
| 2,4-Dinitrophenol          | A    | 2.0000        | 0.4   | 0.1437811             | 0.0338566 |     | -81.8        | +/-50 * |
| Dibenzofuran               | A    | 0.50000       | 0.5   | 1.8656210             | 1.8775390 |     | 0.6          | +/-50   |
| 4-Nitrophenol              | A    | 1.0000        | 0.8   | 0.1323756             | 0.1239110 |     | -17.1        | +/-50   |
| 2,4-Dinitrotoluene         | A    | 1.0000        | 0.9   | 0.4244424             | 0.3834078 |     | -9.7         | +/-50   |
| Fluorene                   | A    | 0.50000       | 0.5   | 1.5719010             | 1.7056030 |     | 8.5          | +/-50   |
| 4-Chlorophenylphenyl ether | A    | 0.50000       | 0.5   | 0.8363665             | 0.8377836 |     | 0.2          | +/-50   |
| Diethyl phthalate          | A    | 0.50000       | 0.6   | 1.1765440             | 1.3235570 |     | 12.5         | +/-50   |
| 4-Nitroaniline             | A    | 1.0000        | 0.7   | 0.2995450             | 0.2208641 |     | -26.3        | +/-50   |
| 4,6-Dinitro-2-methylphenol | A    | 2.0000        | 0.7   | 0.0975169             | 0.0452423 |     | -66.0        | +/-50 * |
| N-Nitrosodiphenylamine     | A    | 0.50000       | 0.6   | 0.5026629             | 0.5697412 |     | 13.3         | +/-50   |
| 4-Bromophenyl phenyl ether | A    | 0.50000       | 0.5   | 0.2209900             | 0.2235454 |     | 1.2          | +/-50   |
| Hexachlorobenzene          | A    | 0.50000       | 0.5   | 0.2429692             | 0.2511384 |     | 3.4          | +/-50   |
| Pentachlorophenol          | A    | 1.0000        | 0.6   | 0.0938263             | 0.0632808 |     | -44.7        | +/-50   |
| Phenanthrene               | A    | 0.50000       | 0.5   | 1.0640870             | 1.1010310 |     | 3.5          | +/-50   |
| Anthracene                 | A    | 0.50000       | 0.5   | 1.0059580             | 1.0597000 |     | 5.3          | +/-50   |
| Carbazole                  | A    | 0.50000       | 0.5   | 0.8816605             | 0.8830512 |     | 0.2          | +/-50   |
| Di-n-Butylphthalate        | A    | 0.50000       | 0.5   | 0.9469101             | 1.1709480 |     | 3.0          | +/-50   |
| Fluoranthene               | A    | 0.50000       | 0.5   | 1.5175930             | 1.4144580 |     | -6.8         | +/-50   |
| Pyrene                     | A    | 0.50000       | 0.5   | 1.6000330             | 1.4916770 |     | -6.8         | +/-50   |
| Butylbenzylphthalate       | A    | 0.50000       | 0.5   | 0.4562763             | 0.5834320 |     | 3.1          | +/-50   |
| Benzo(a)anthracene         | A    | 0.50000       | 0.5   | 1.3399020             | 1.4721900 |     | 9.9          | +/-50   |
| 3,3'-Dichlorobenzidine     | A    | 1.5000        | 1.8   | 0.3826468             | 0.4682657 |     | 22.4         | +/-50   |
| Chrysene                   | A    | 0.50000       | 0.5   | 1.2879040             | 1.3863210 |     | 7.6          | +/-50   |
| bis(2-Ethylhexyl)phthalate | A    | 0.50000       | 0.5   | 0.5161185             | 0.5544285 |     | -9.2         | +/-50   |
| Di-n-Octylphthalate        | A    | 0.50000       | 0.5   | 1.0531830             | 1.0547270 |     | 0.1          | +/-50   |
| Benzofluoranthenes, Total  | A    | 1.0000        | 1.3   | 1.2927770             | 1.6366130 |     | 26.6         | +/-50   |
| Benzo(a)pyrene             | A    | 0.50000       | 0.5   | 1.1338150             | 1.2274190 |     | 8.3          | +/-50   |
| Indeno(1,2,3-cd)pyrene     | A    | 0.50000       | 0.2   | 1.4272450             | 0.6517237 |     | -54.3        | +/-50 * |
| Dibenzo(a,h)anthracene     | A    | 0.50000       | 0.3   | 1.2122070             | 0.6063056 |     | -50.0        | +/-50   |
| Benzo(g,h,i)perylene       | A    | 0.50000       | 0.2   | 1.2448130             | 0.4543474 |     | -63.5        | +/-50 * |
| 1-Methylnaphthalene        | A    | 0.50000       | 0.5   | 0.7274101             | 0.7111763 |     | -2.2         | +/-50   |
| 2-Fluorophenol             | A    | 0.75000       | 0.695 | 1.0846110             | 1.0044760 |     | -7.4         | +/-50   |
| Phenol-d5                  | A    | 0.75000       | 0.802 | 1.5399100             | 1.6462030 |     | 6.9          | +/-50   |

\* Values outside of QC limits



**LOW-CONCENTRATION  
CONTINUING CALIBRATION CHECK  
EPA 8270E**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT14</u>                      | Calibration:      | <u>GC00033</u>         |
| Lab File ID:   | <u>NT1423022851.D</u>            | Calibration Date: | <u>02/28/2023</u>      |
| Sequence:      | <u>SLB0374</u>                   | Injection Date:   | <u>03/02/23</u>        |
| Lab Sample ID: | <u>SLB0374-LCV6</u>              | Injection Time:   | <u>07:40</u>           |
| Sequence Name: | <u>ABN 0.5</u>                   |                   |                        |

| COMPOUND               | TYPE | CONC. (ug/mL) |       | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|-------|
|                        |      | STD           | CCV   | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| 2-Chlorophenol-d4      | A    | 0.75000       | 0.851 | 1.3093910             | 1.4849810 |     | 13.4         | +/-50 |
| 1,2-Dichlorobenzene-d4 | A    | 0.50000       | 0.509 | 0.9857584             | 1.0039490 |     | 1.8          | +/-50 |
| Nitrobenzene-d5        | A    | 0.50000       | 0.552 | 0.3912861             | 0.4321596 |     | 10.4         | +/-50 |
| 2-Fluorobiphenyl       | A    | 0.50000       | 0.524 | 1.5568580             | 1.6327600 |     | 4.9          | +/-50 |
| 2,4,6-Tribromophenol   | A    | 0.75000       | 0.580 | 0.1850894             | 0.1664175 |     | -22.6        | +/-50 |
| p-Terphenyl-d14        | A    | 0.50000       | 0.462 | 1.2319340             | 1.1381390 |     | -7.6         | +/-50 |

\* Values outside of QC limits

\* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022851.D

Date: 02-MAR-2023 07:40

Client ID:

Sample Info: SLB0374-LCW6

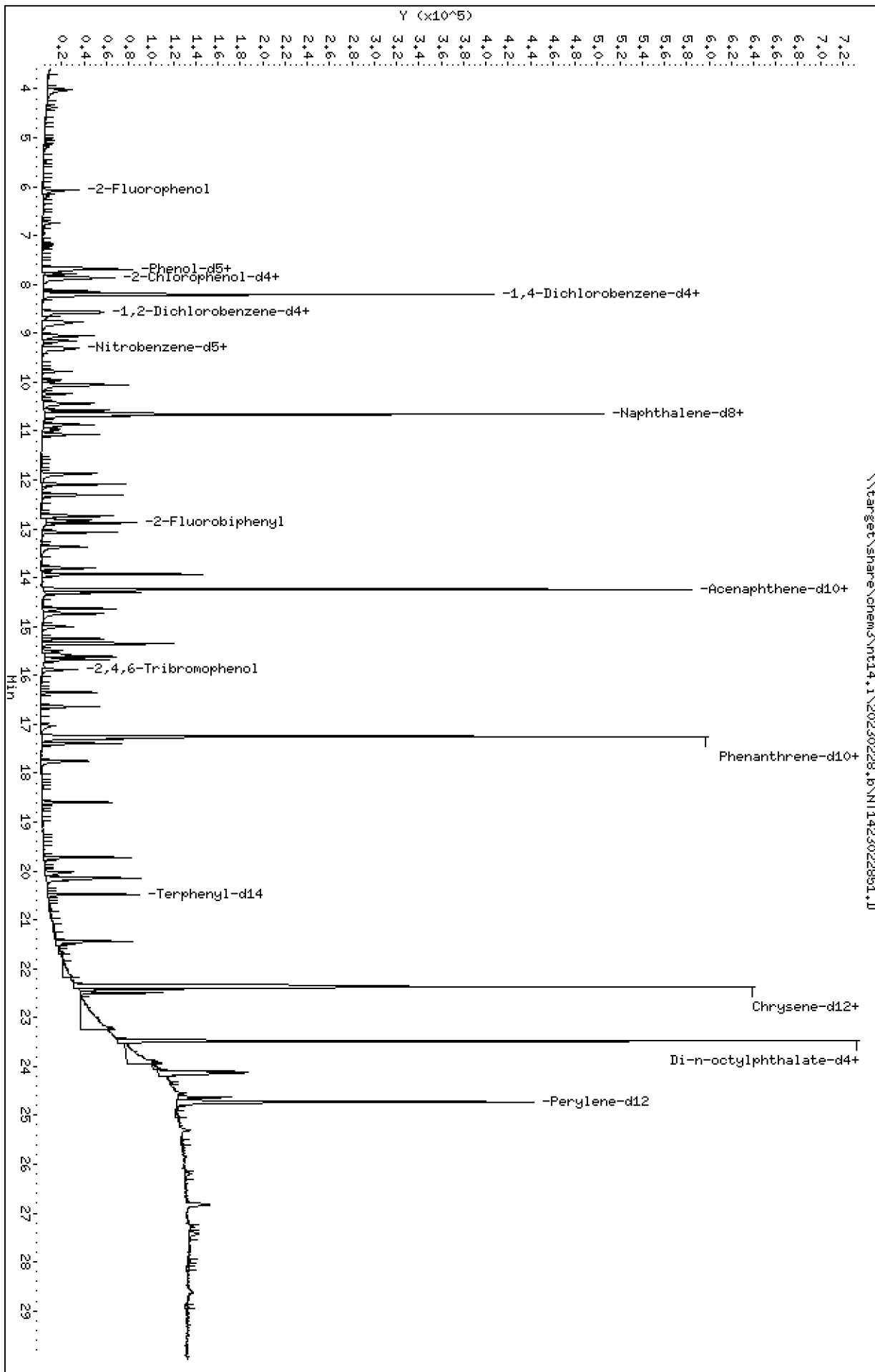
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022851.D



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

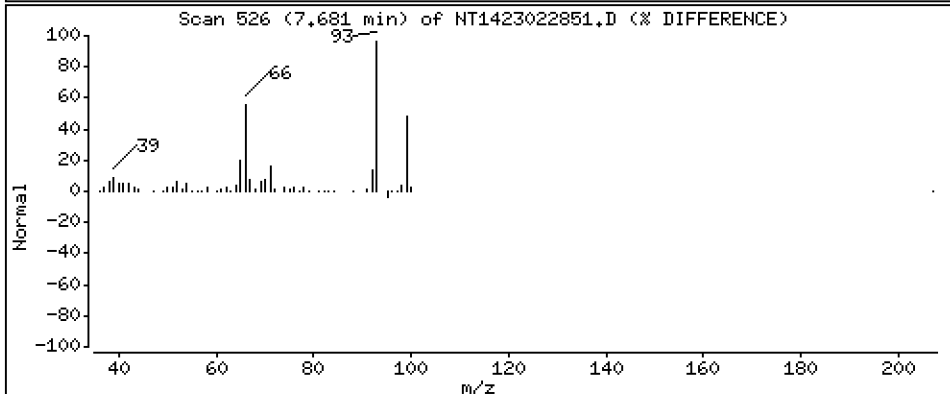
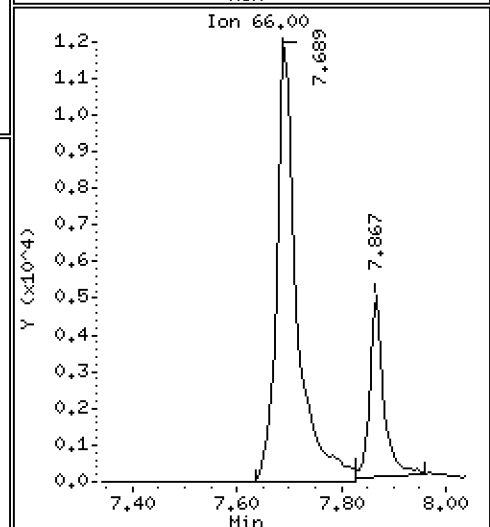
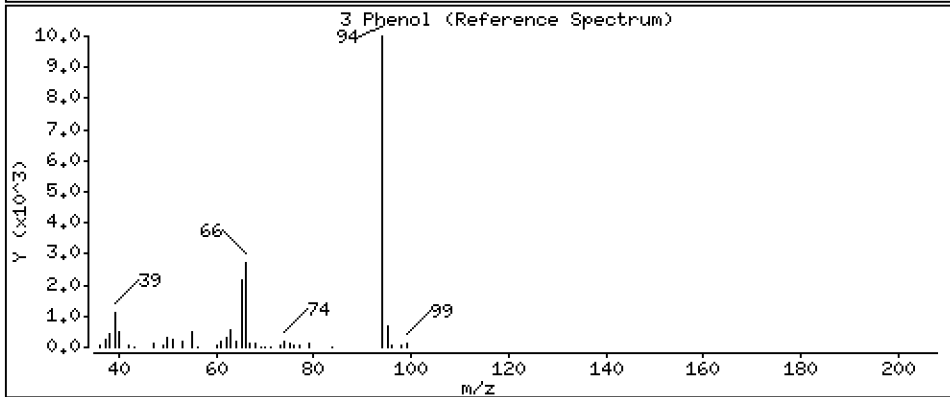
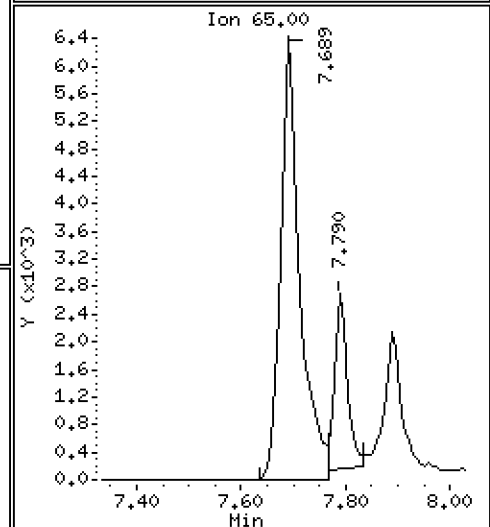
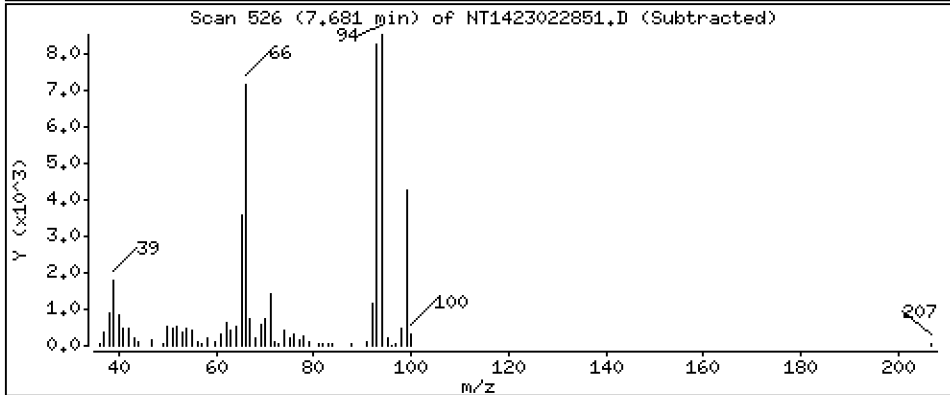
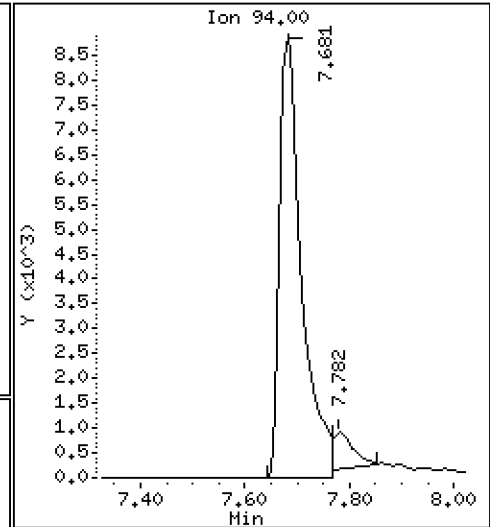
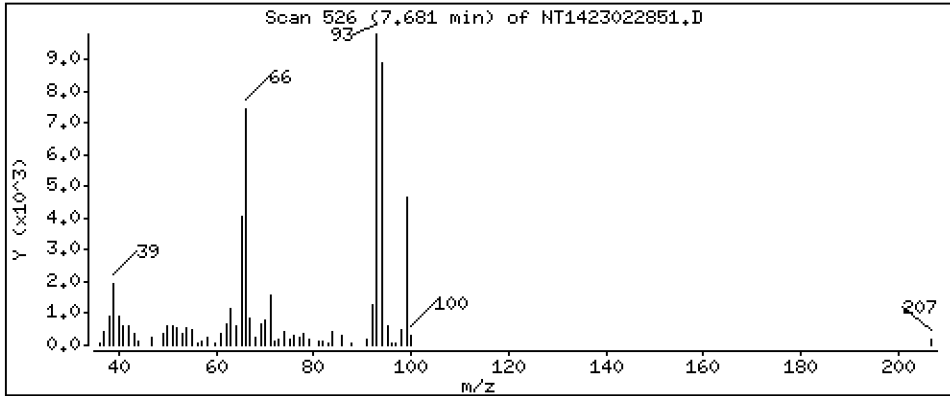
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 0.4990 ug/mL





Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

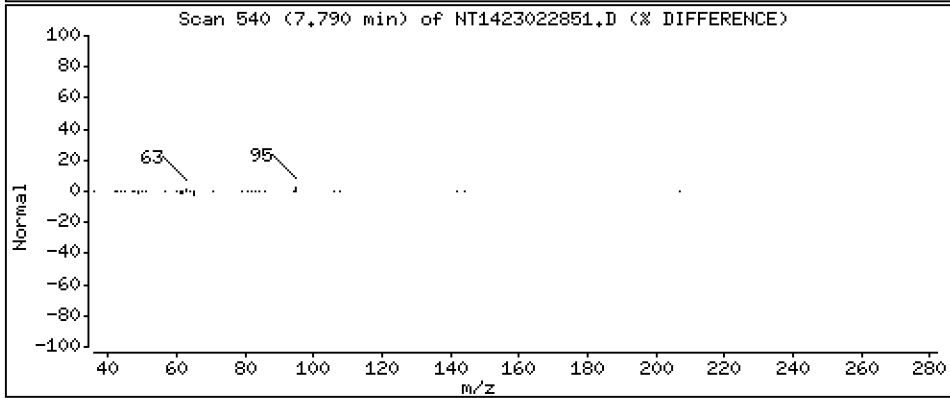
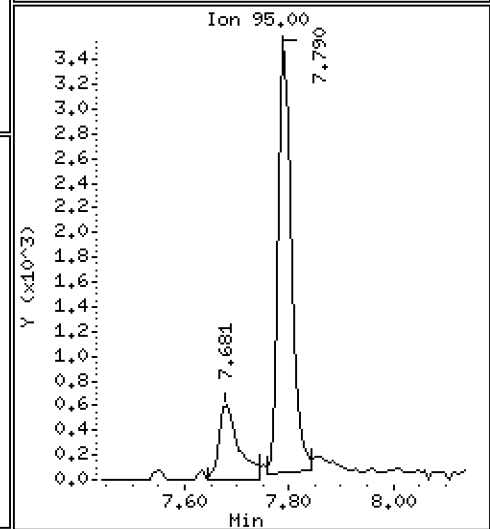
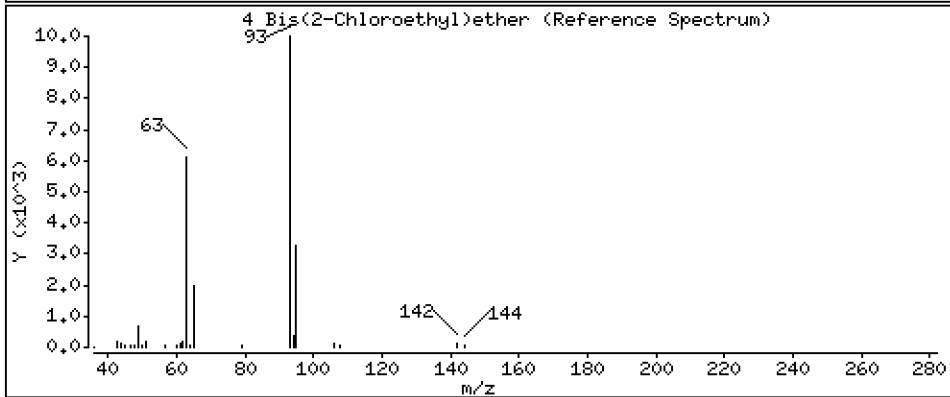
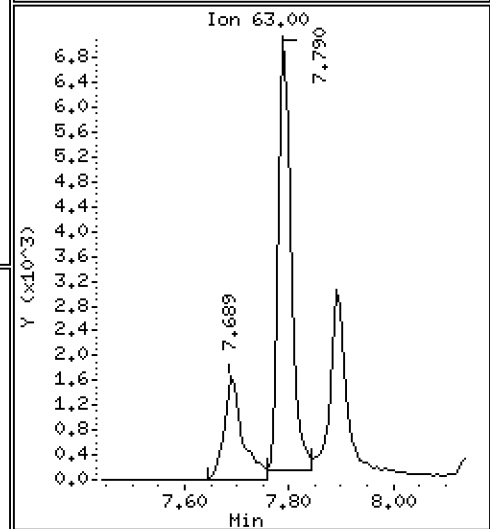
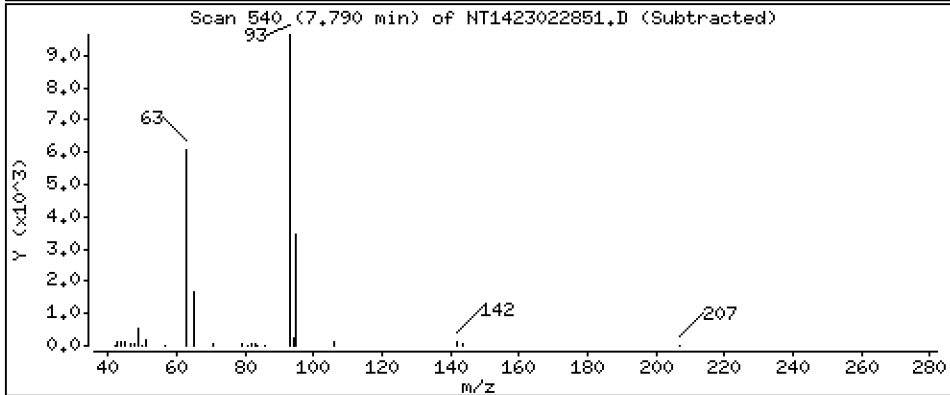
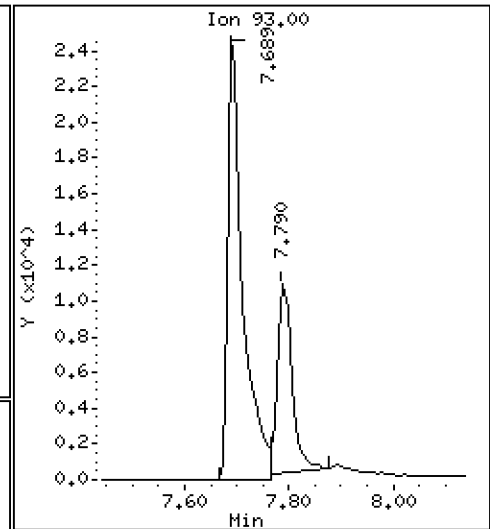
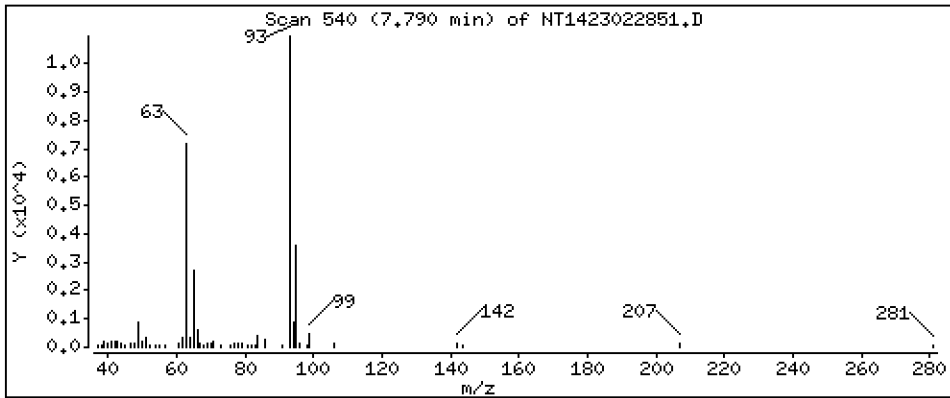
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,5427 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

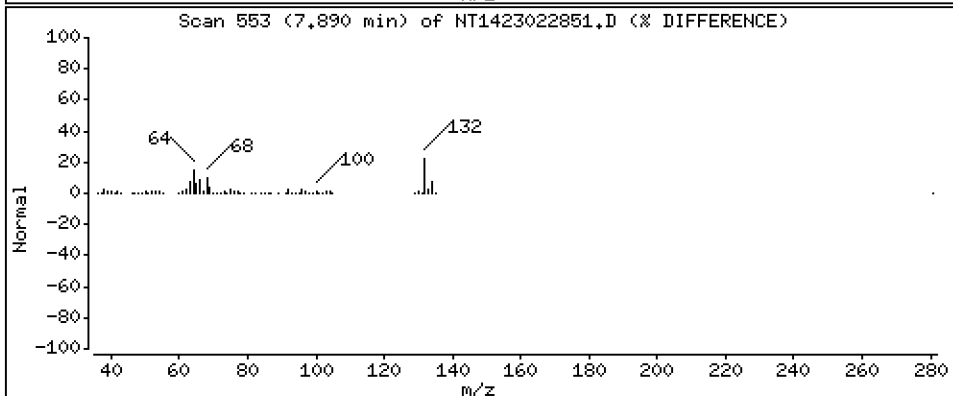
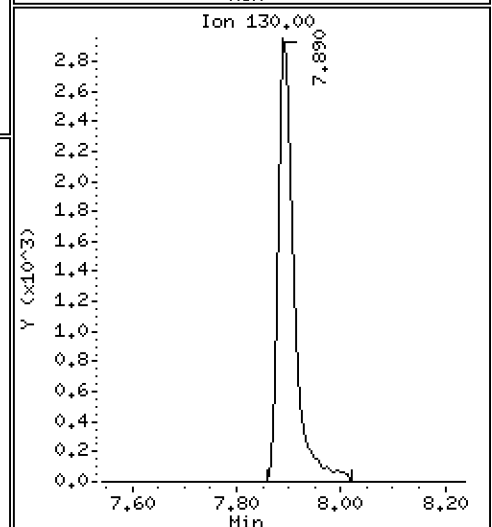
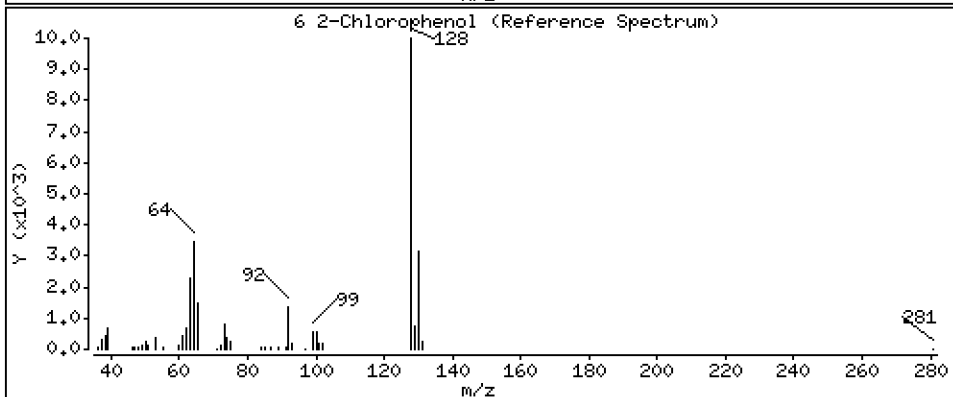
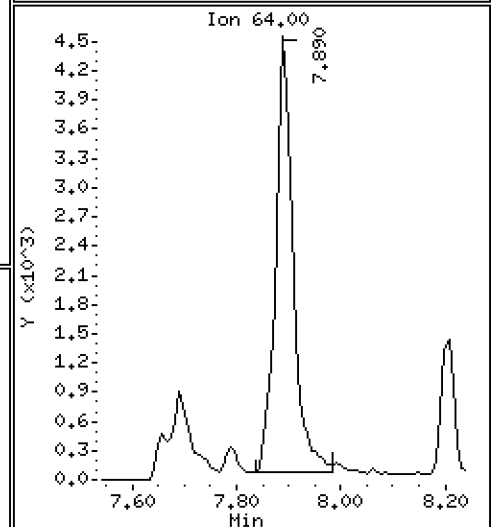
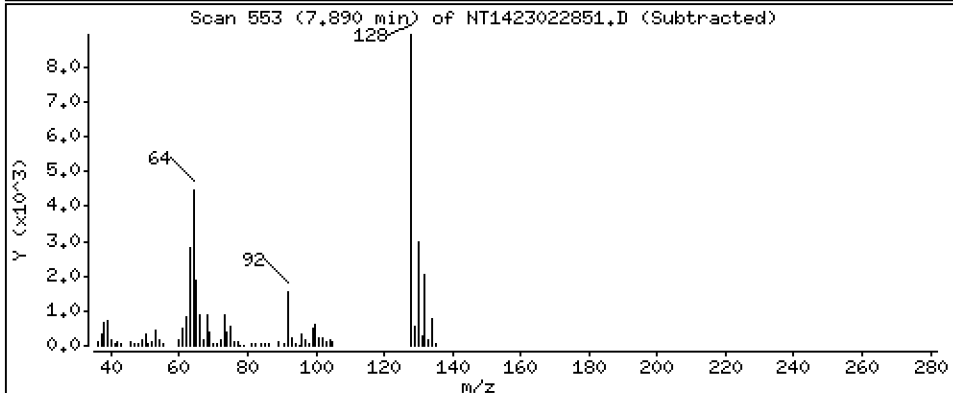
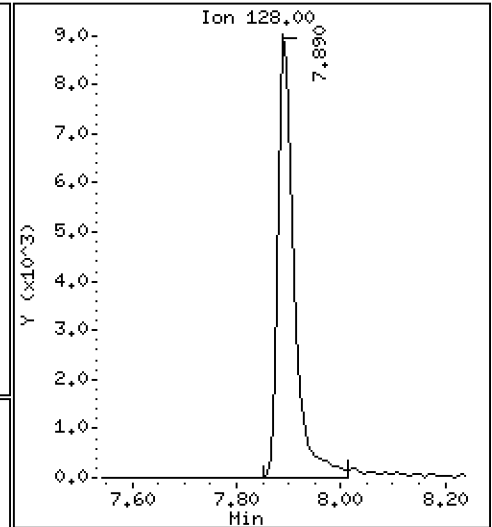
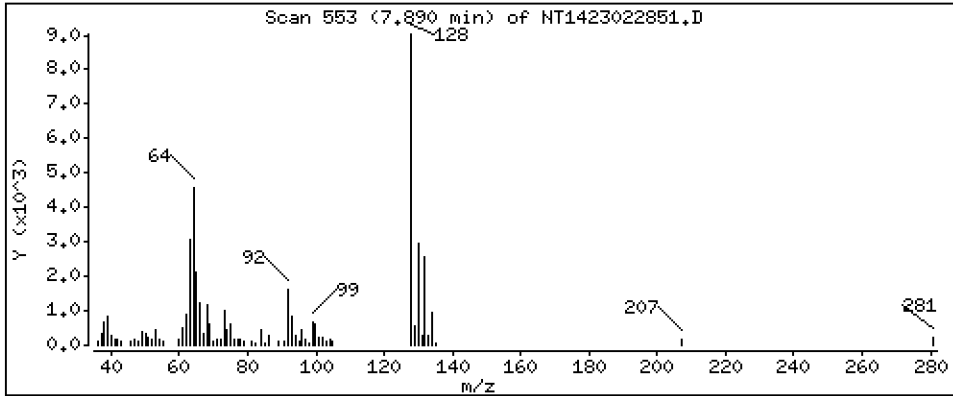
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,5513 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

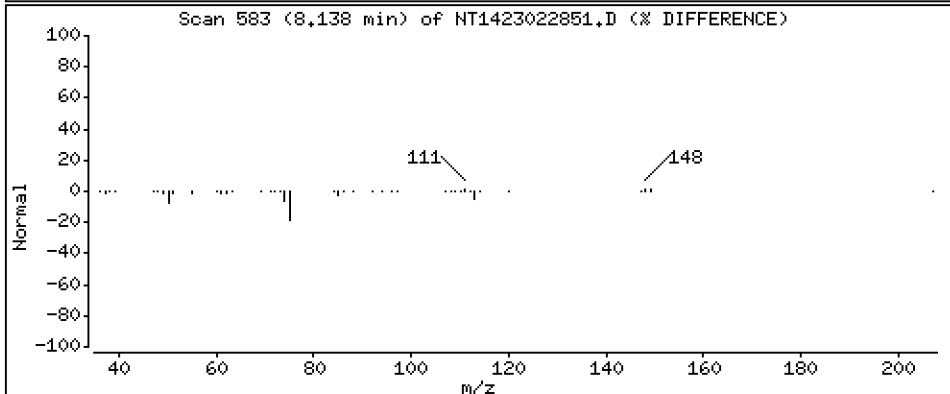
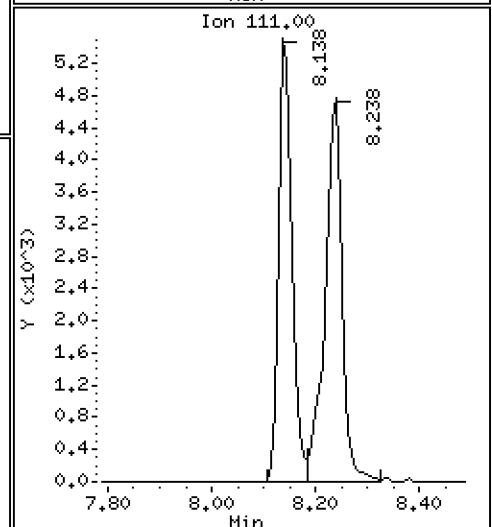
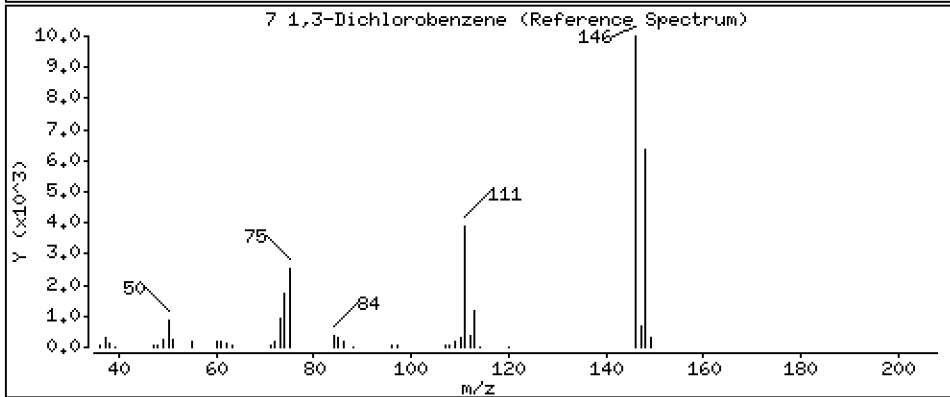
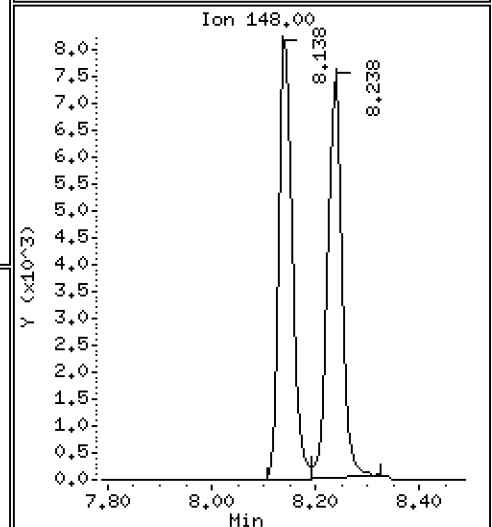
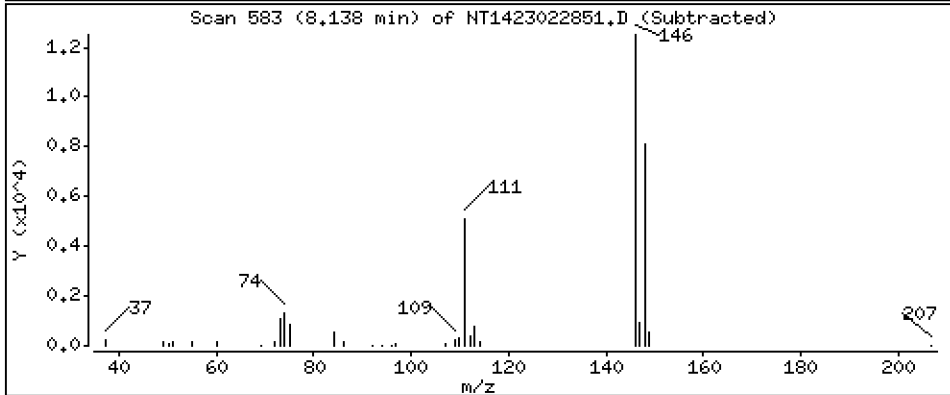
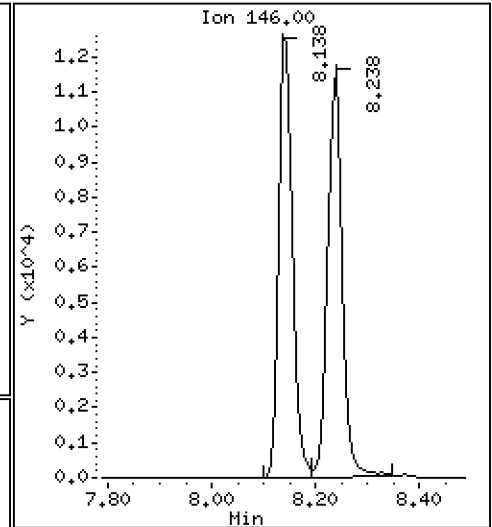
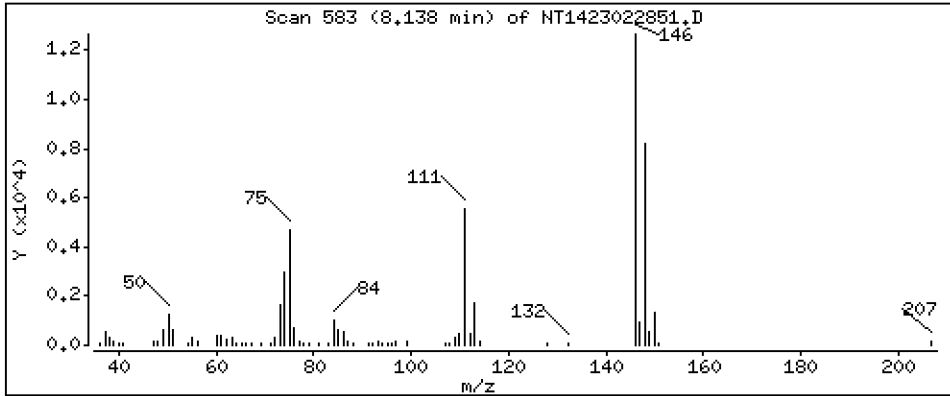
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.5357 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

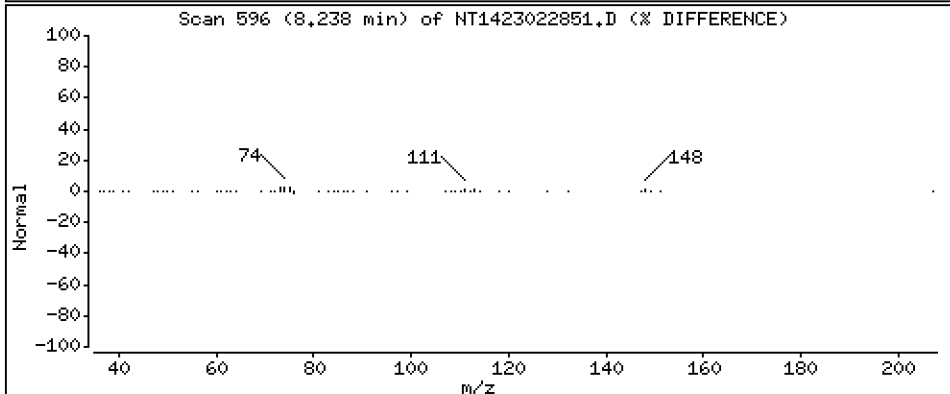
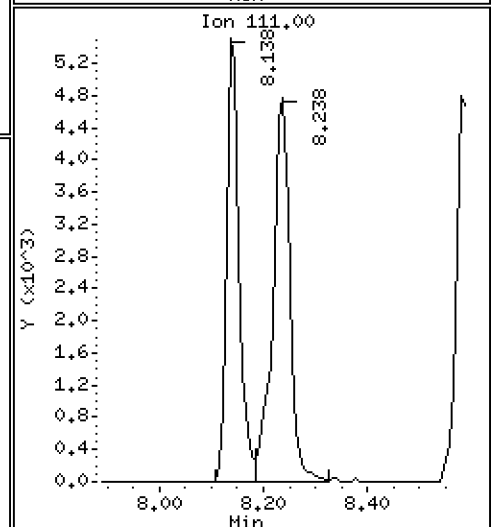
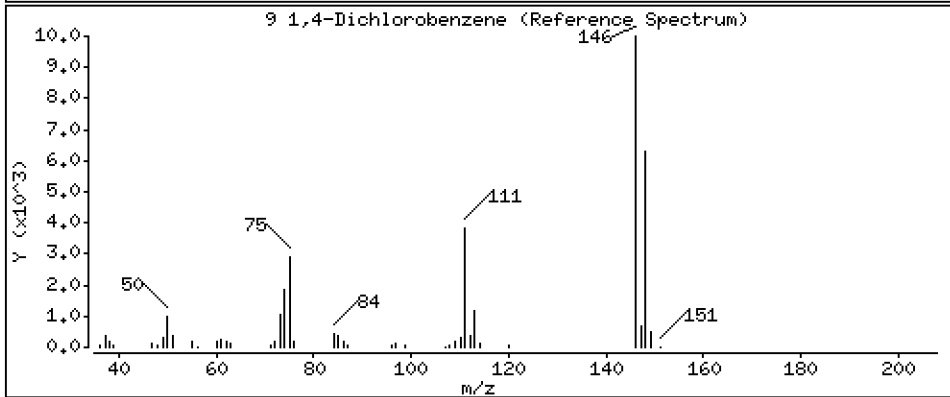
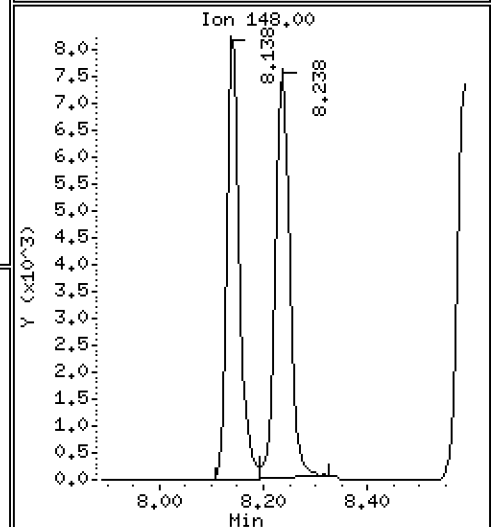
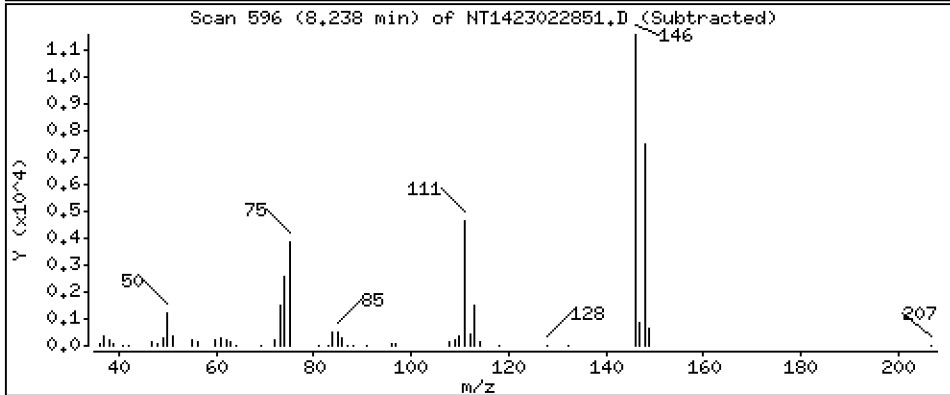
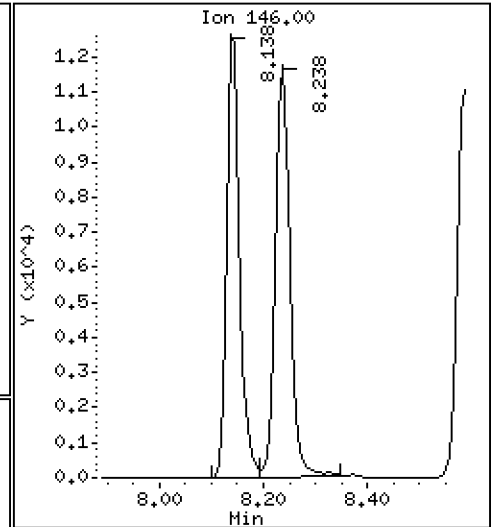
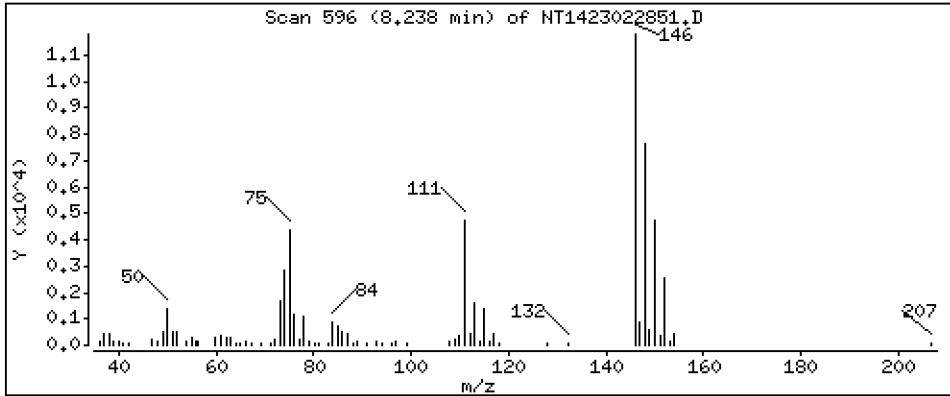
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,5325 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

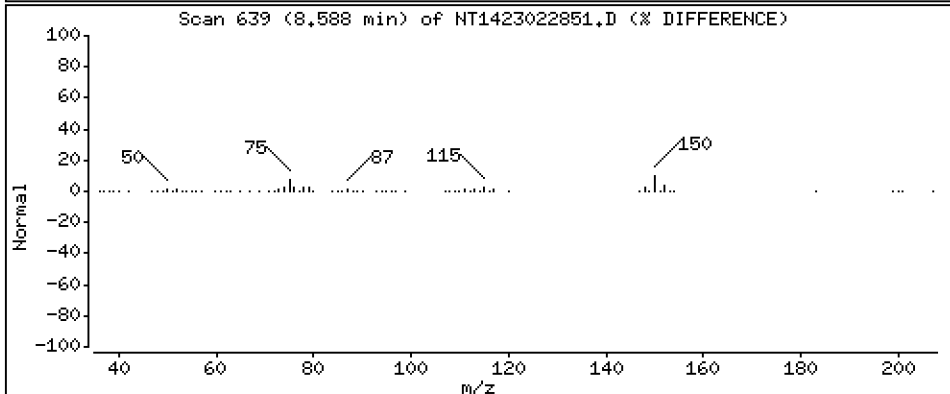
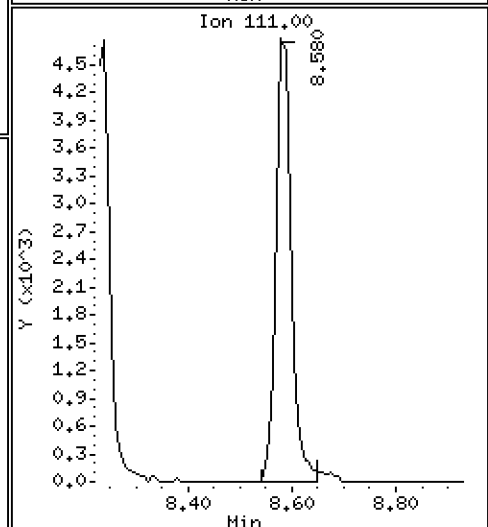
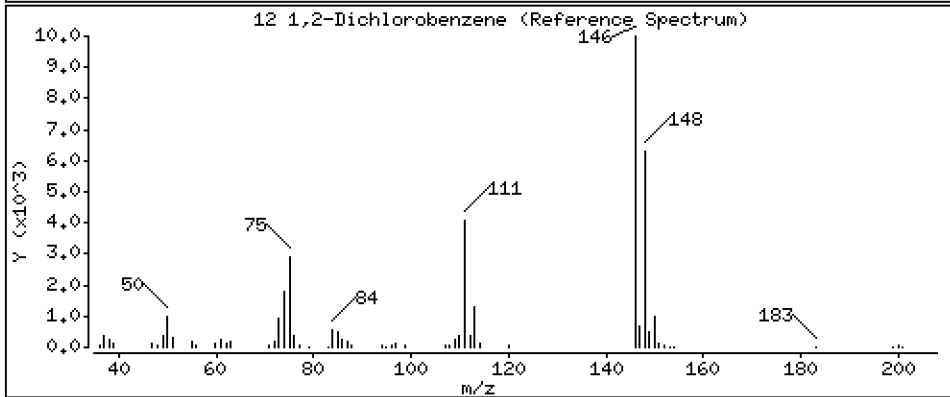
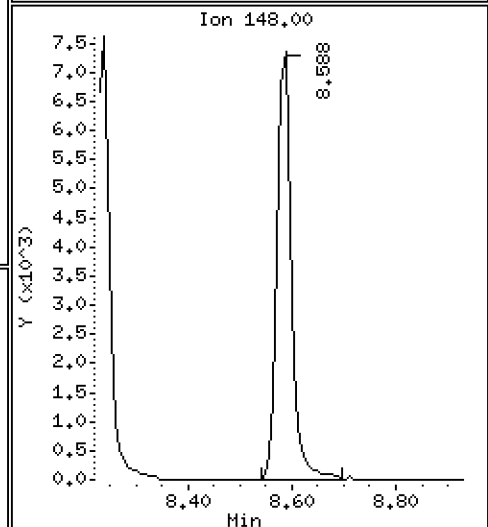
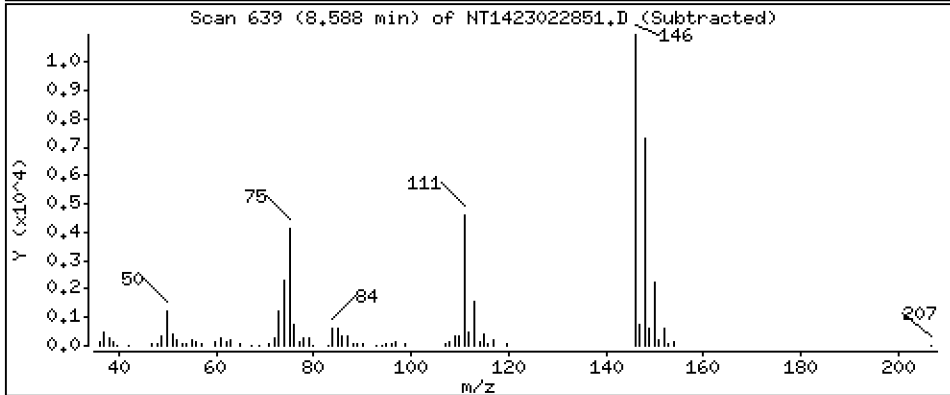
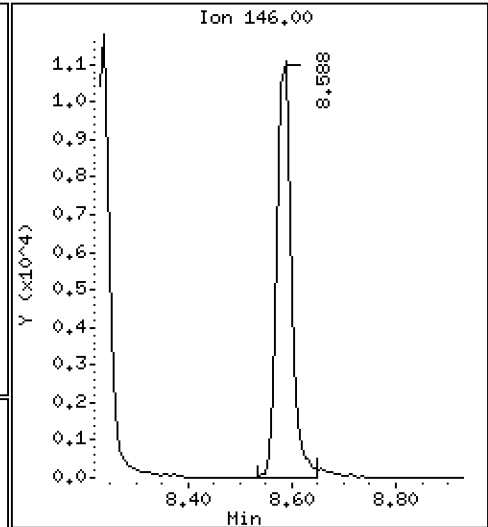
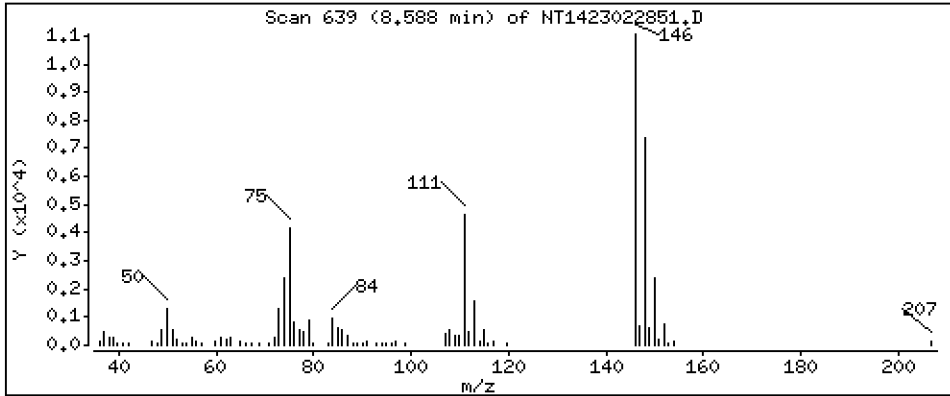
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,5253 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

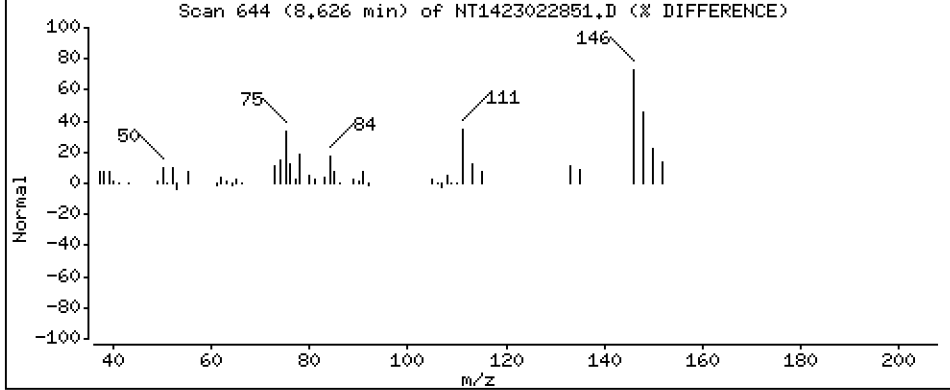
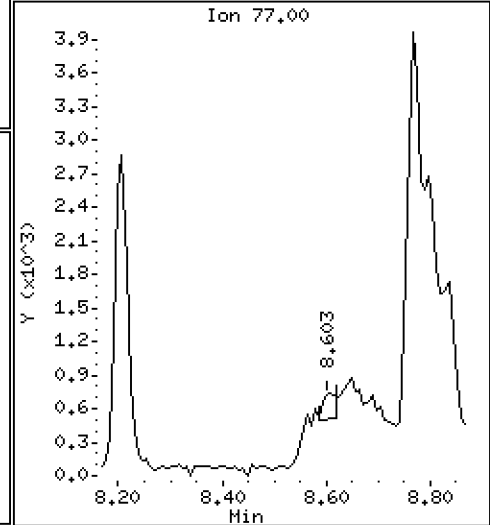
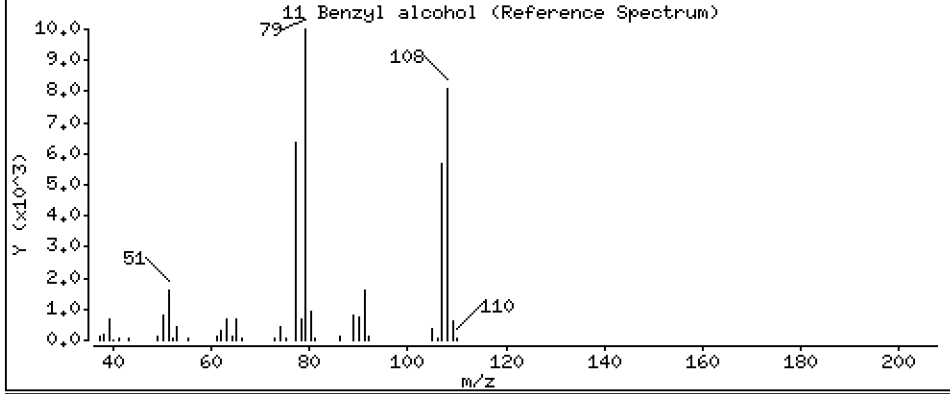
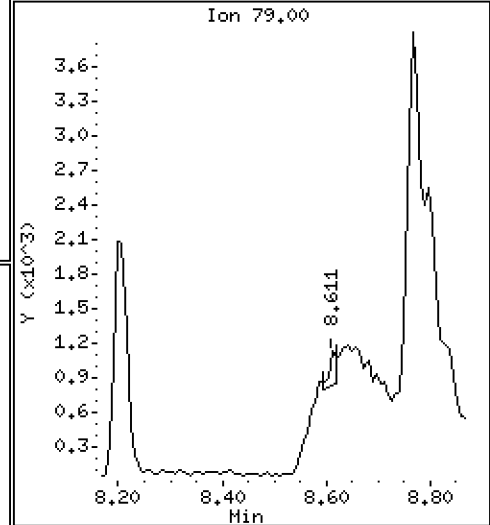
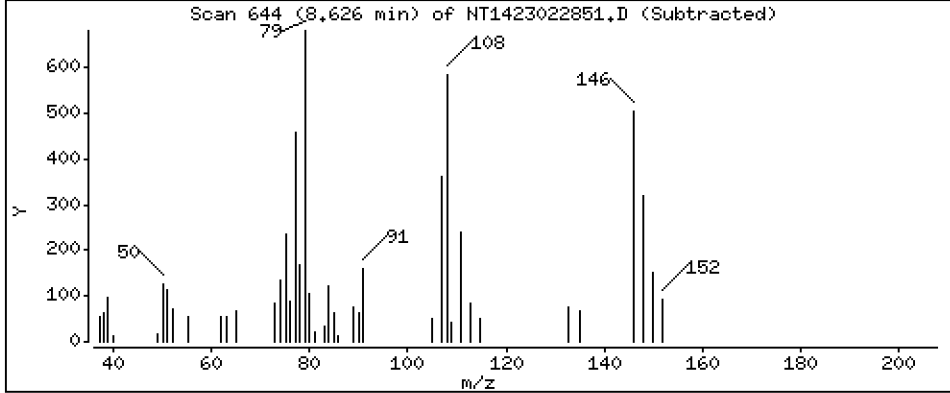
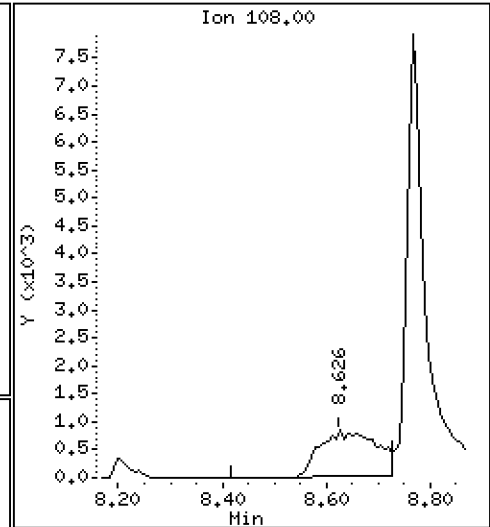
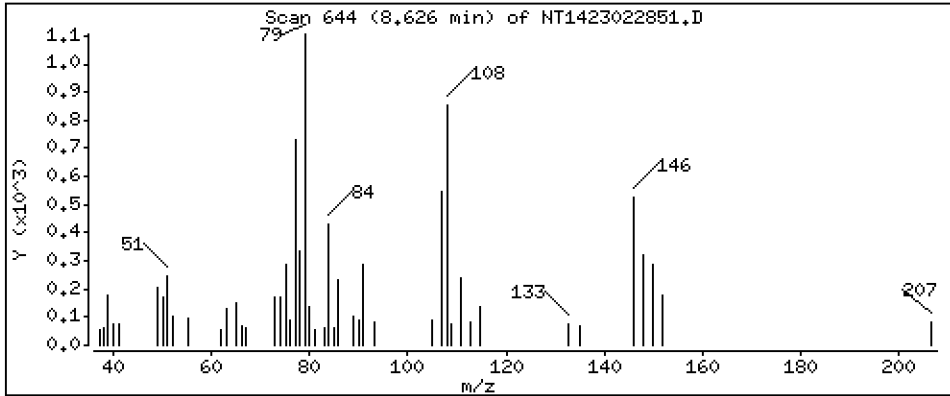
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 0,2776 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

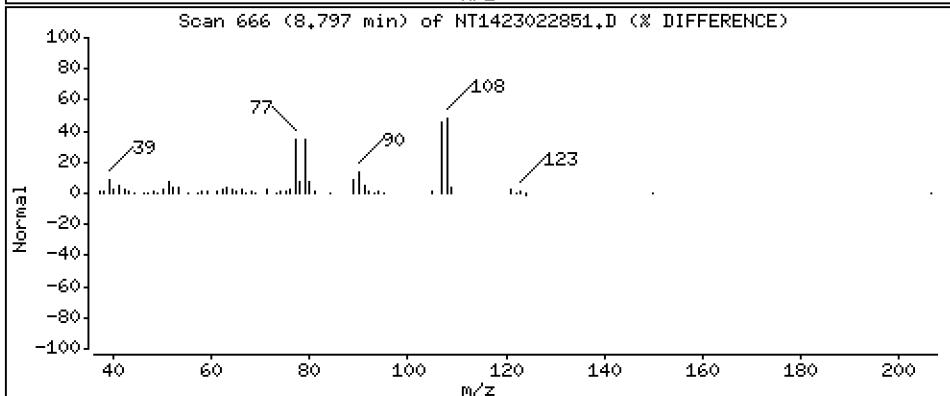
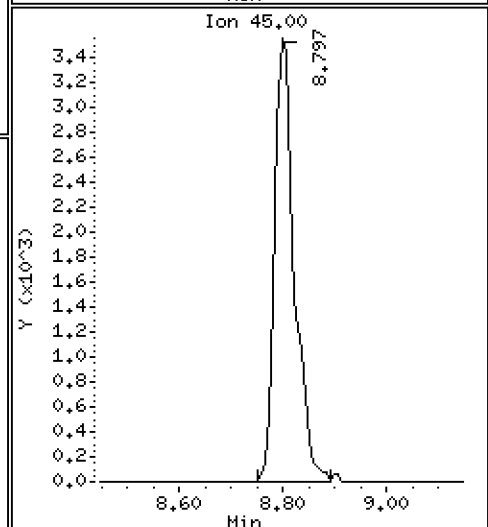
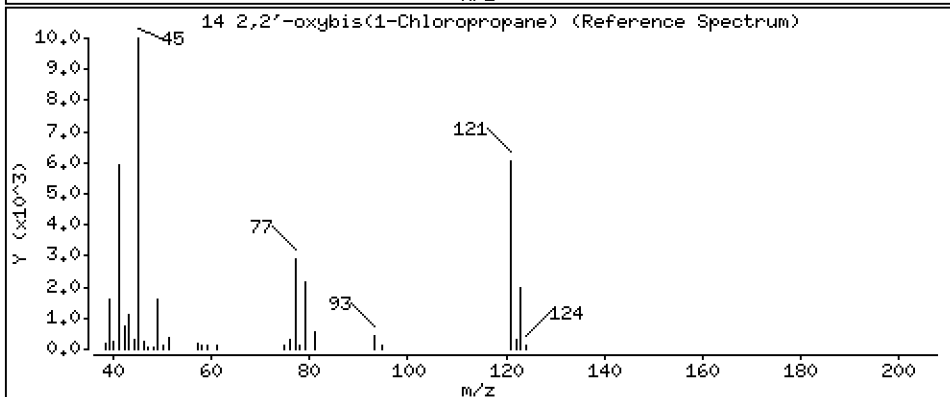
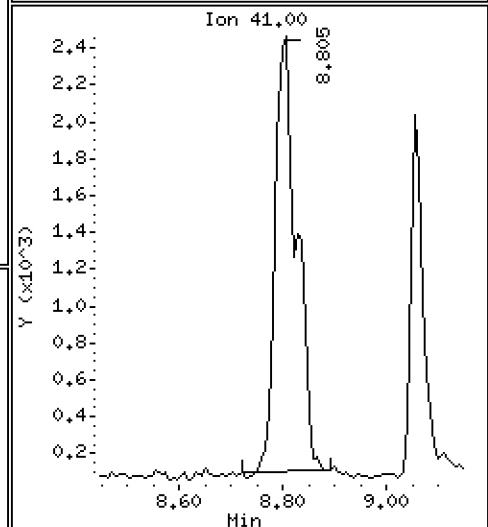
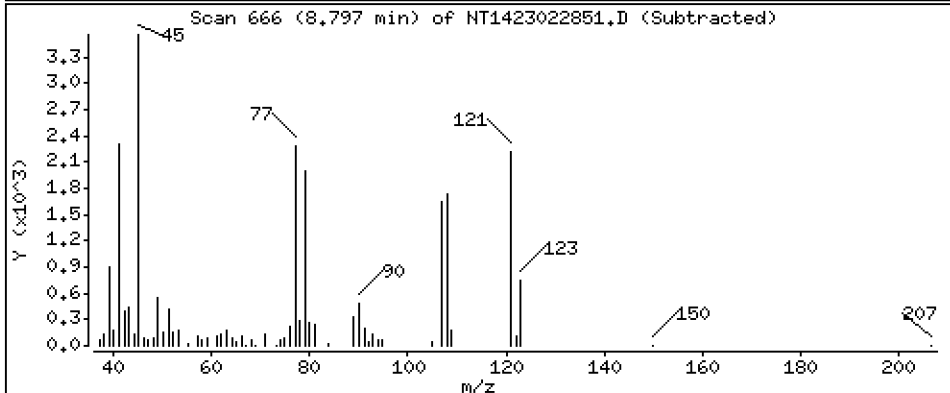
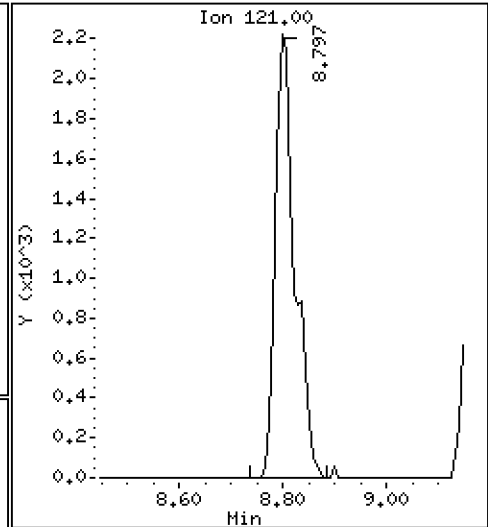
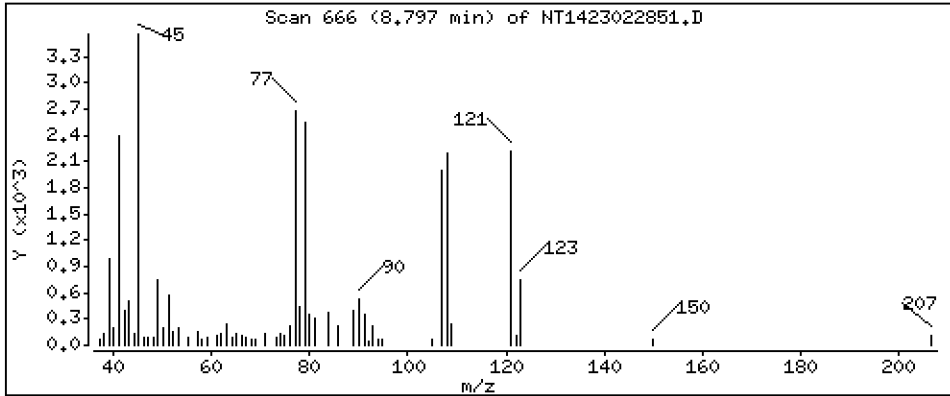
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 0,5373 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

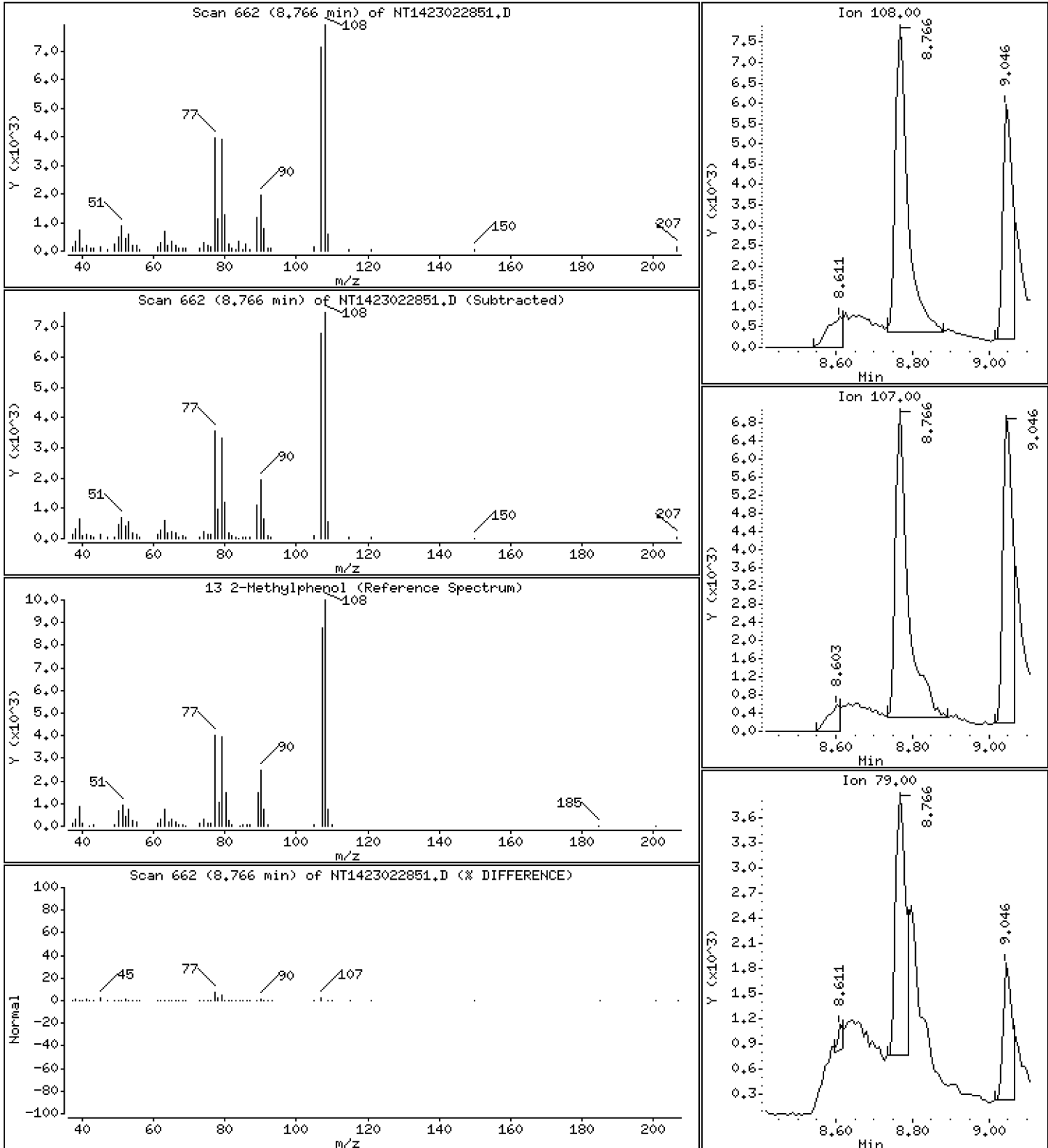
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

Concentration: 0.5113 ug/mL

13 2-Methylphenol





Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

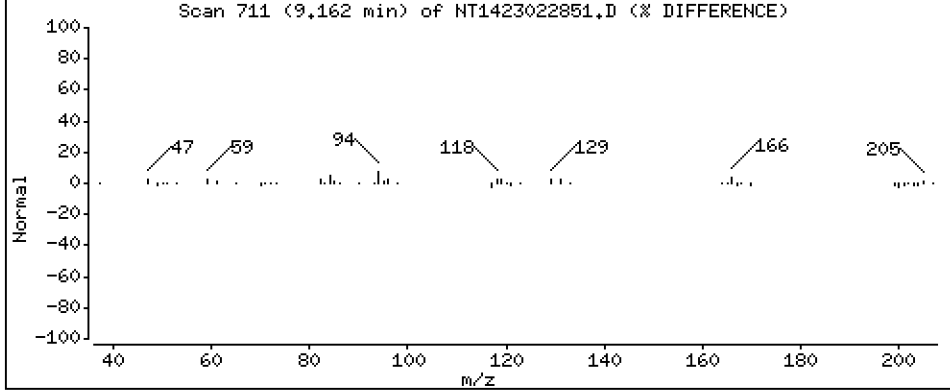
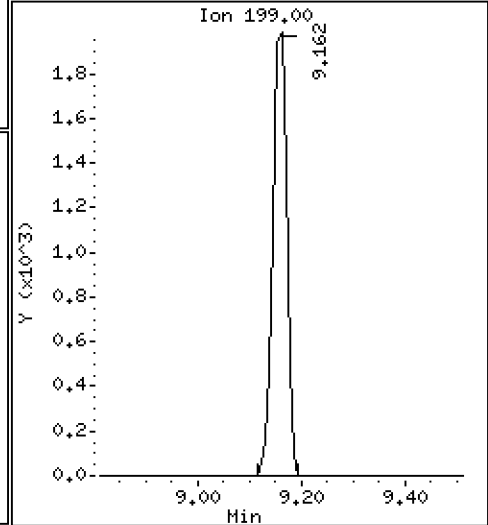
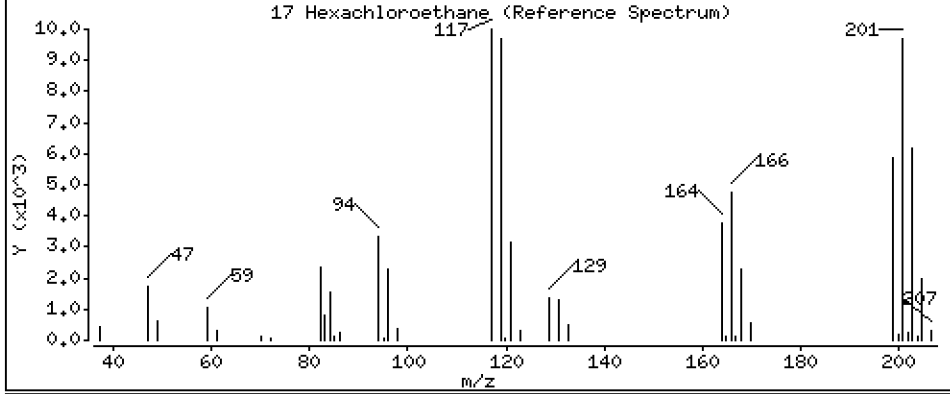
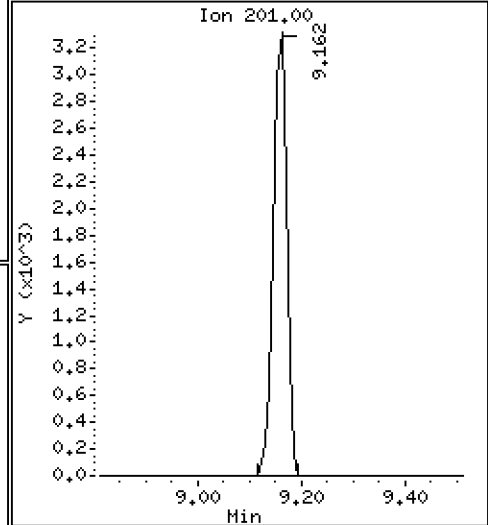
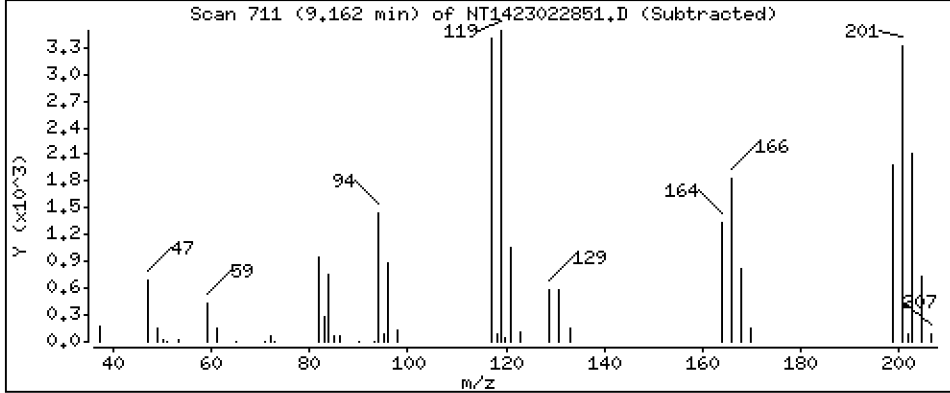
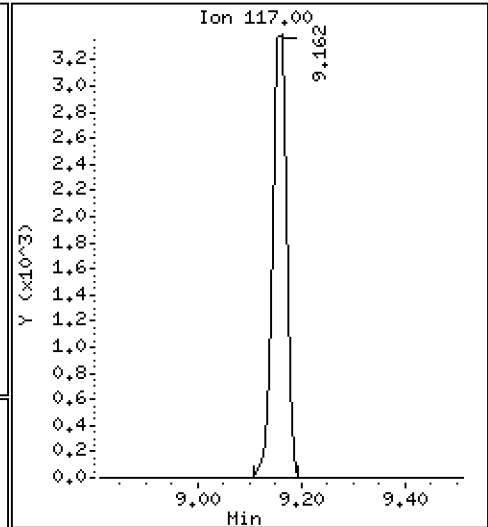
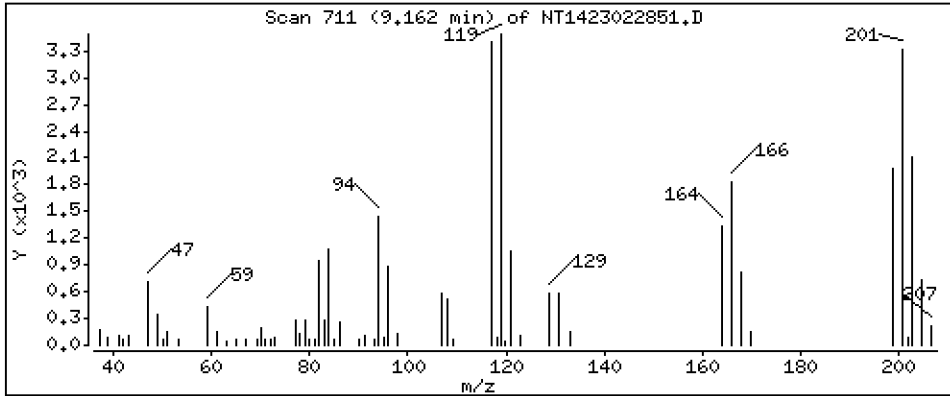
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 0.3900 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

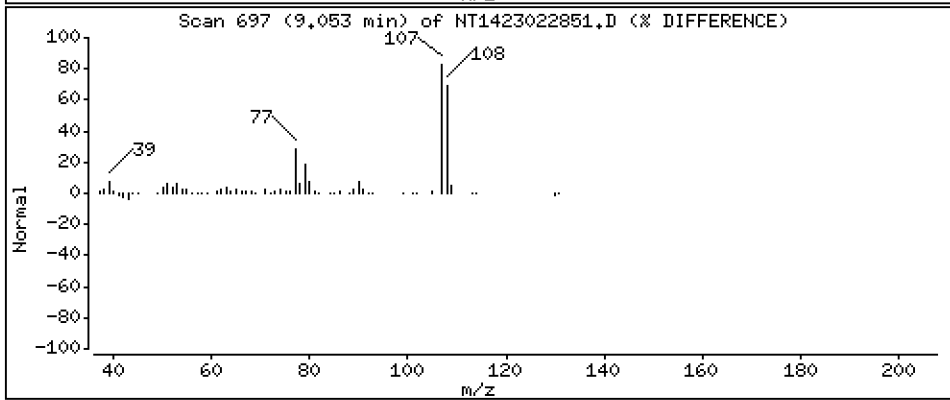
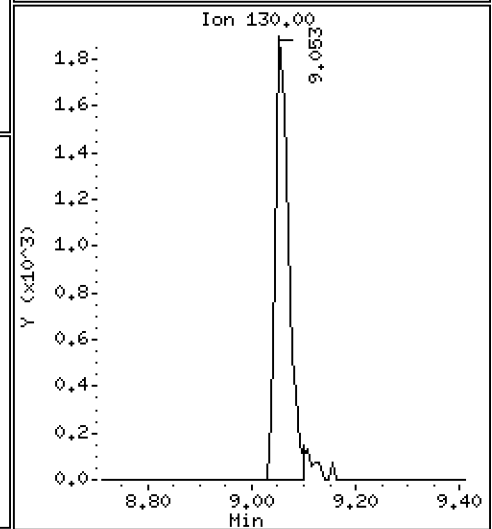
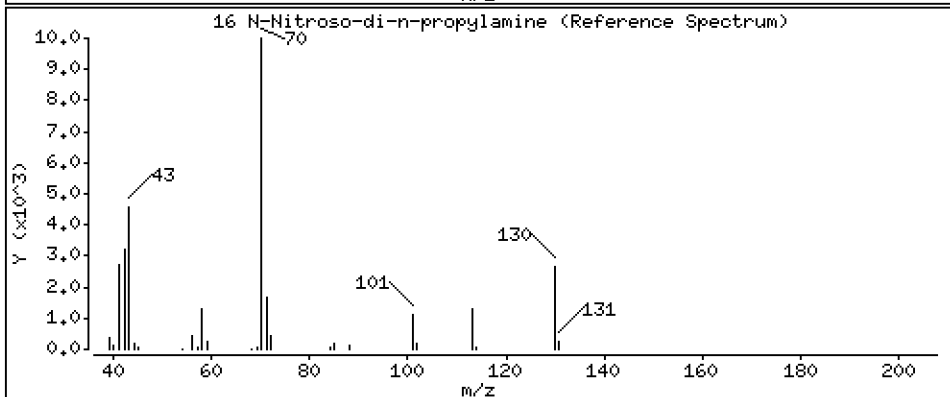
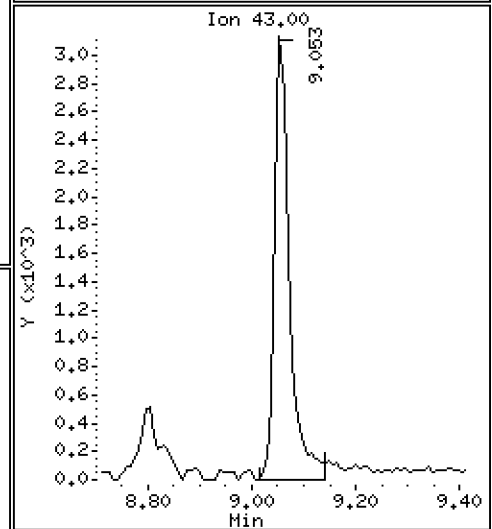
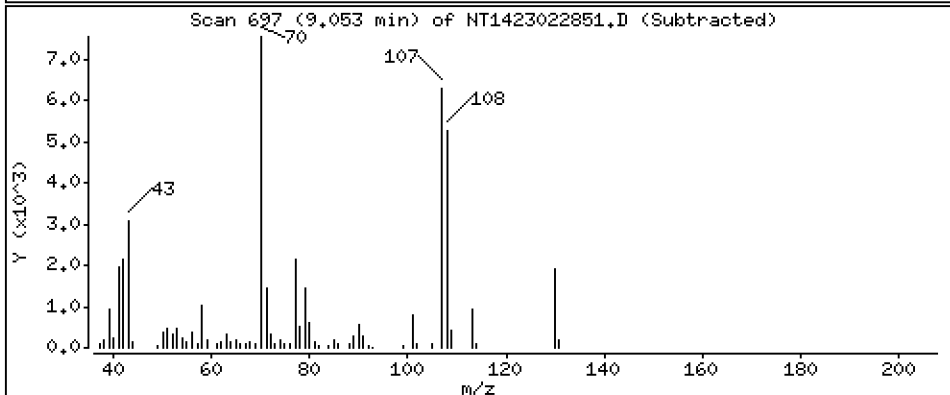
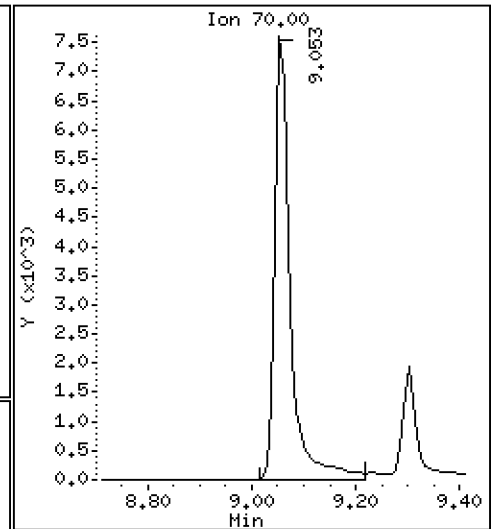
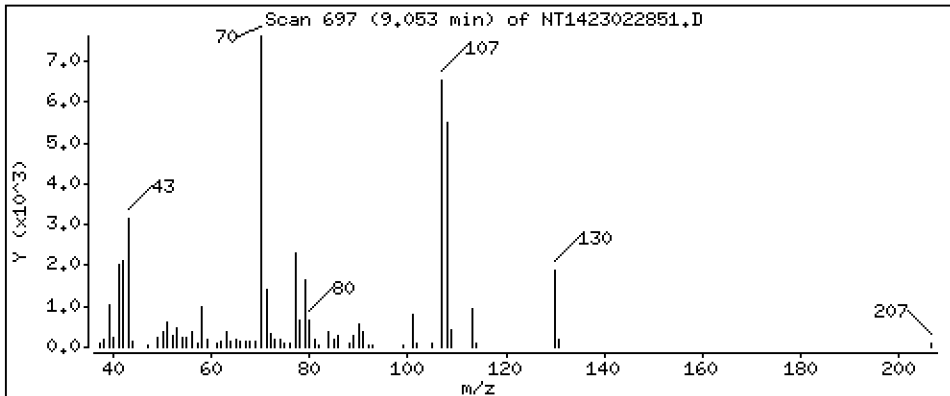
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 0.6127 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

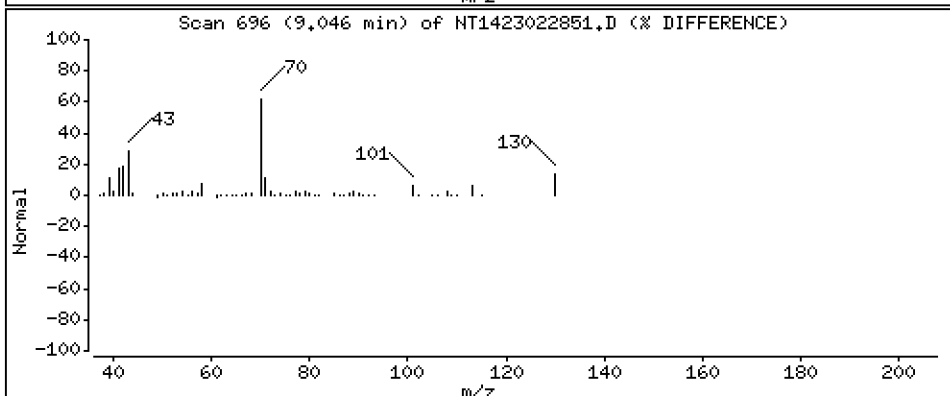
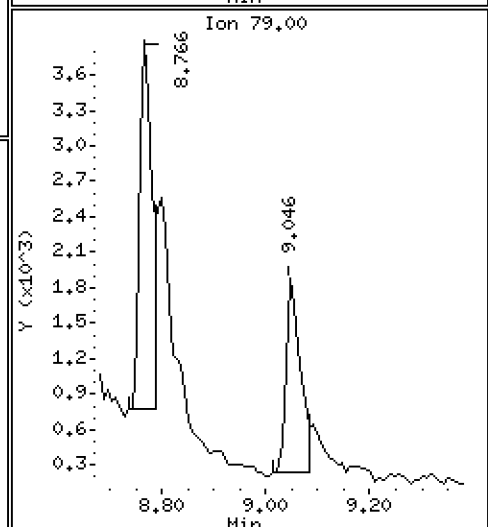
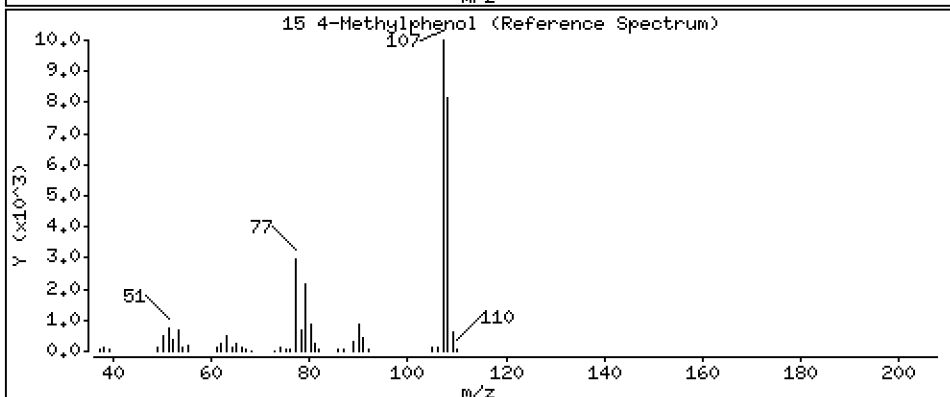
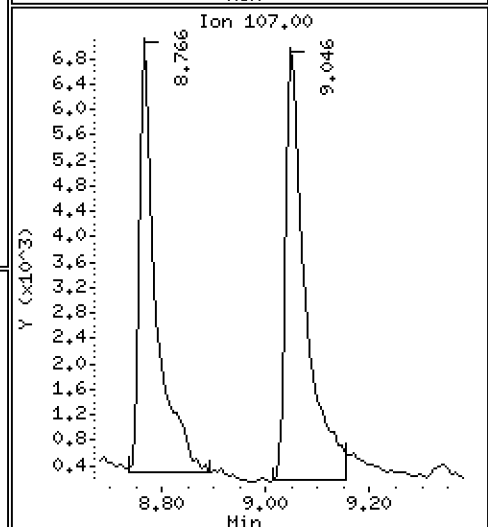
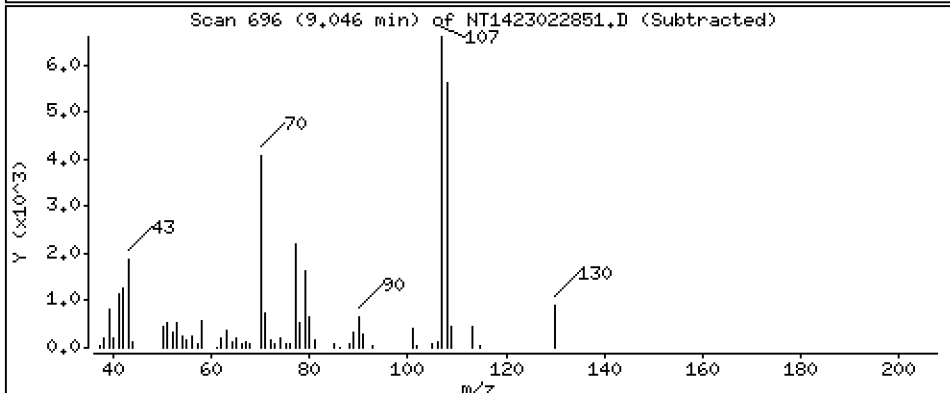
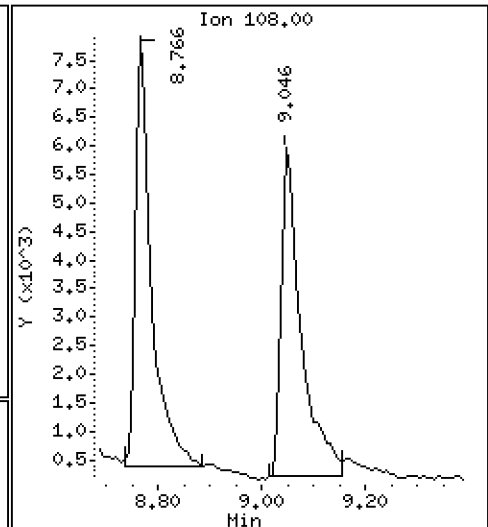
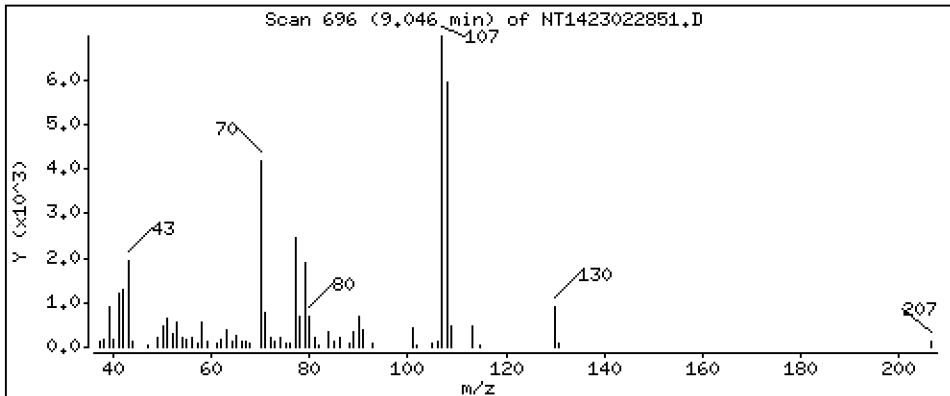
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.4112 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

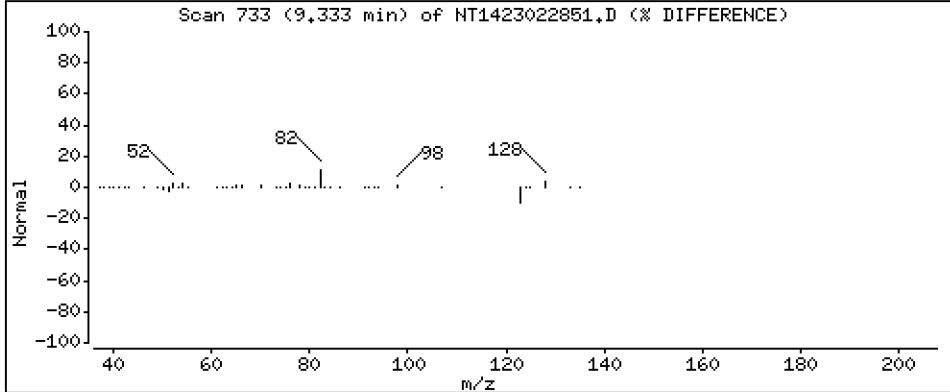
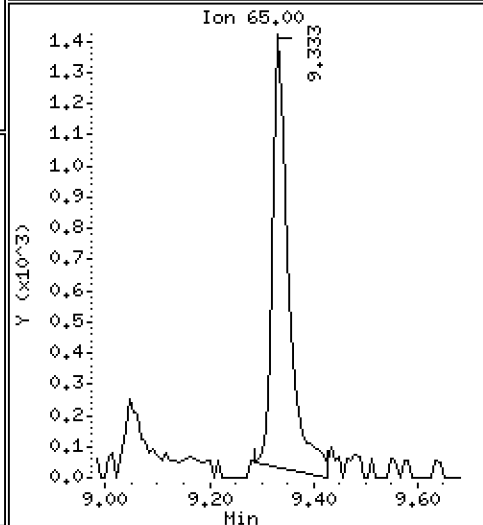
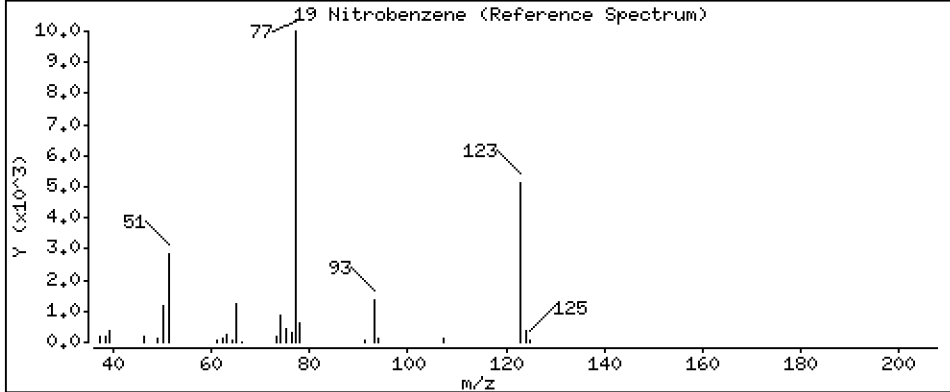
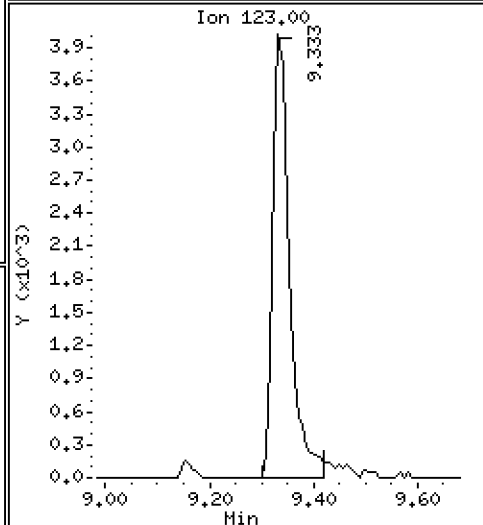
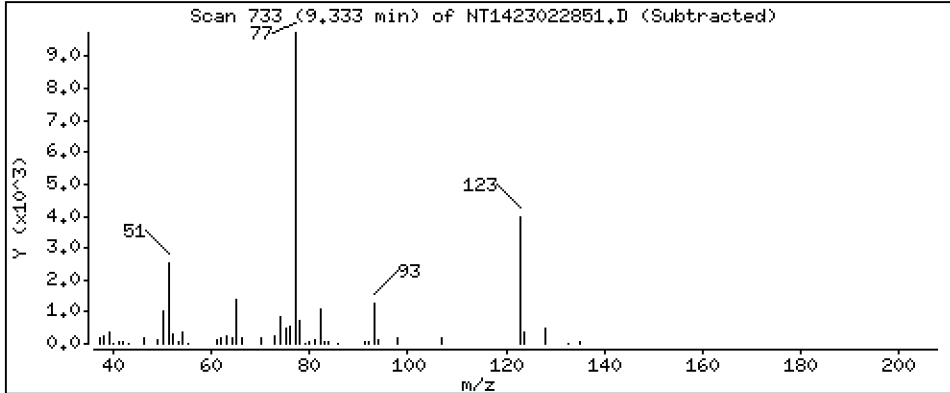
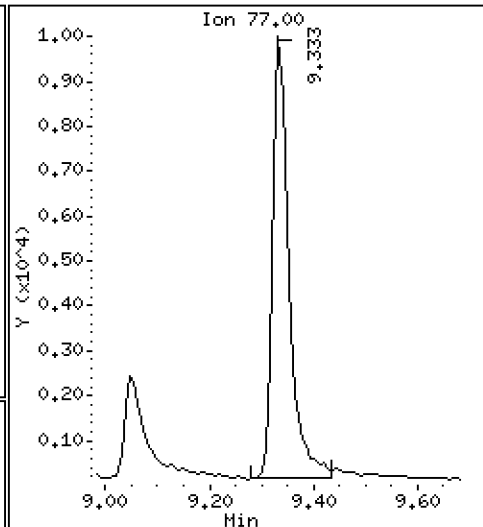
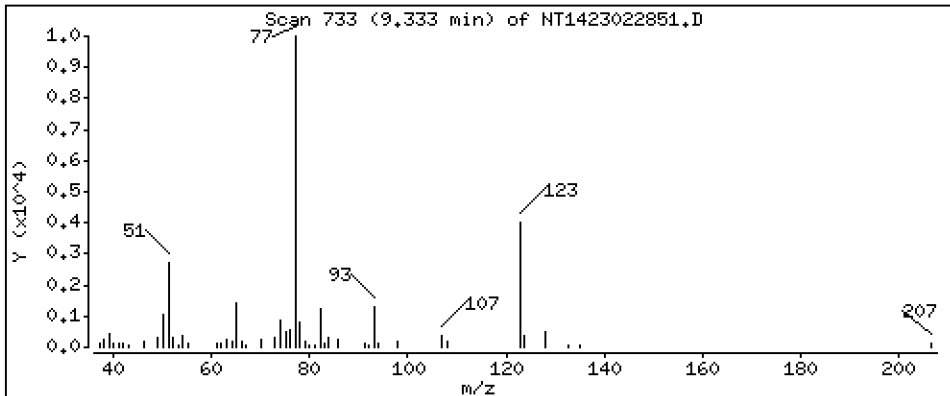
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,5427 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

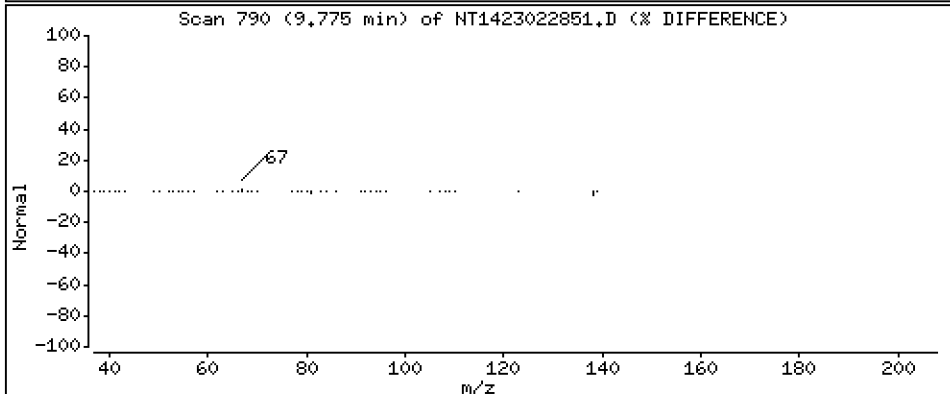
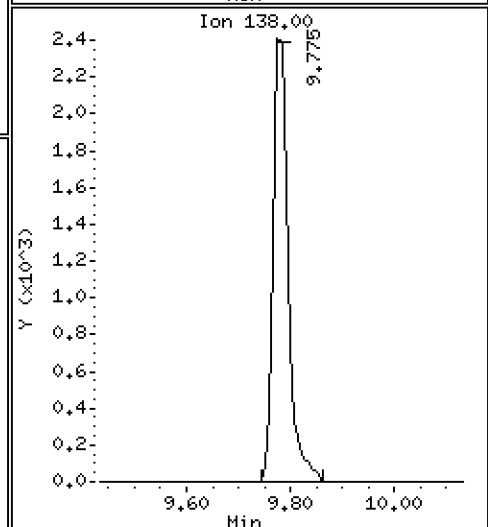
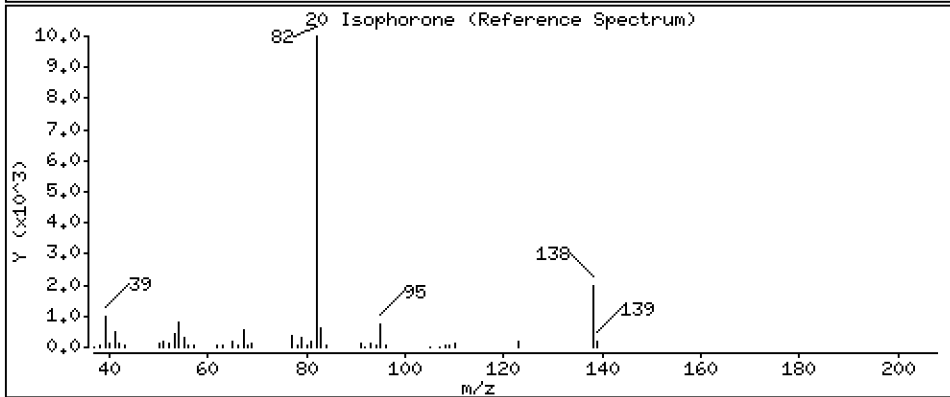
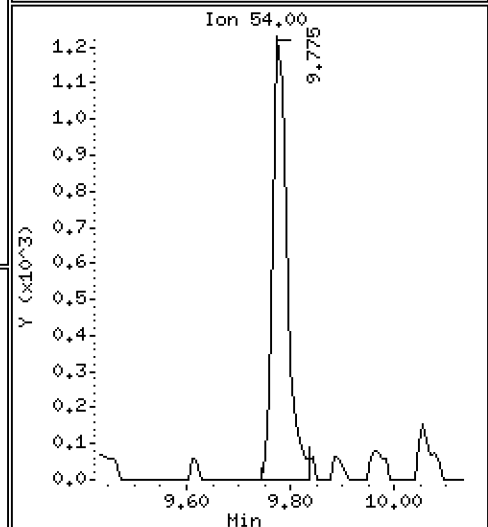
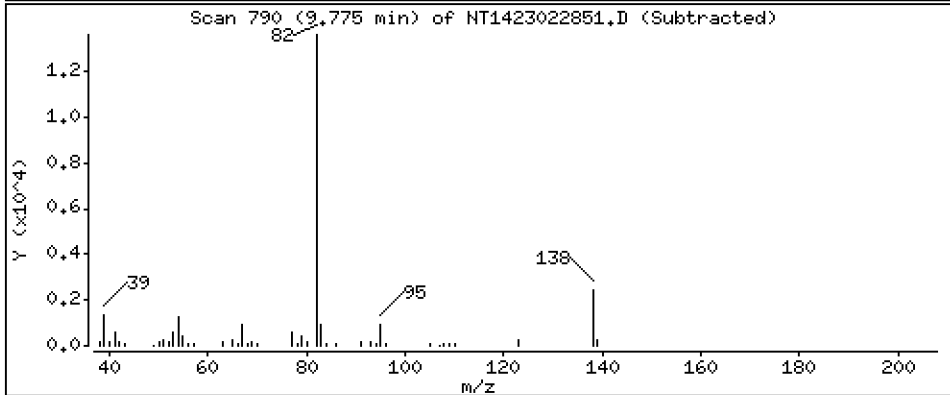
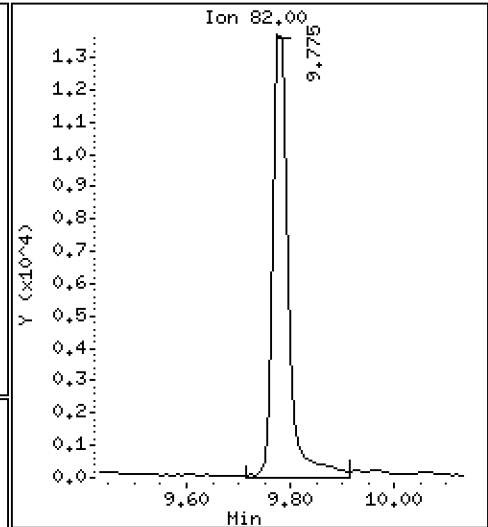
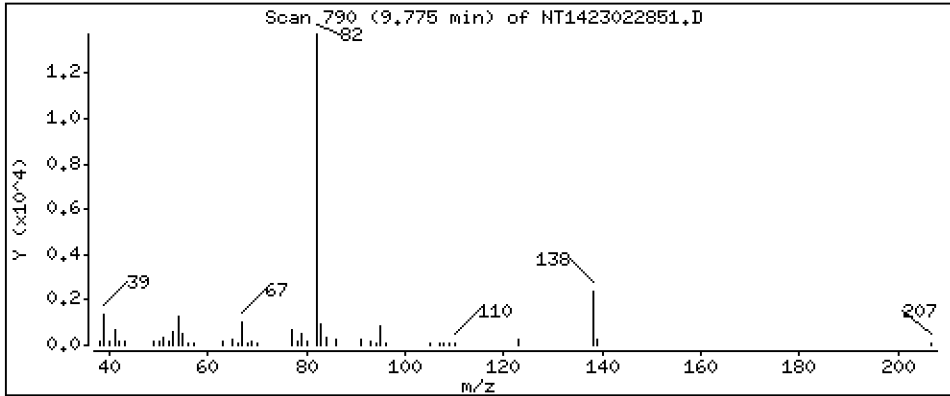
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.4990 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

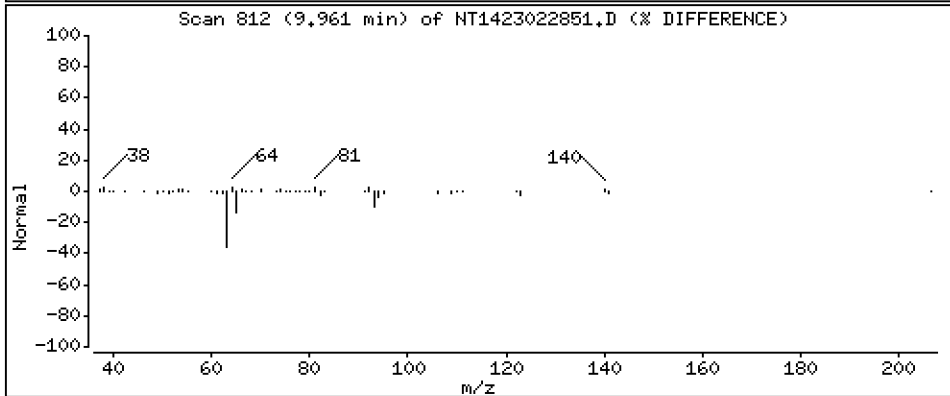
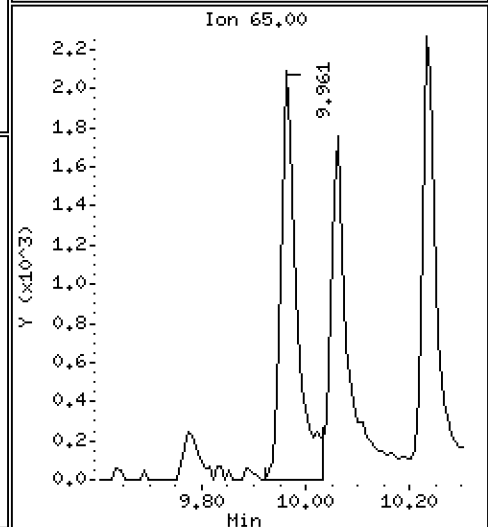
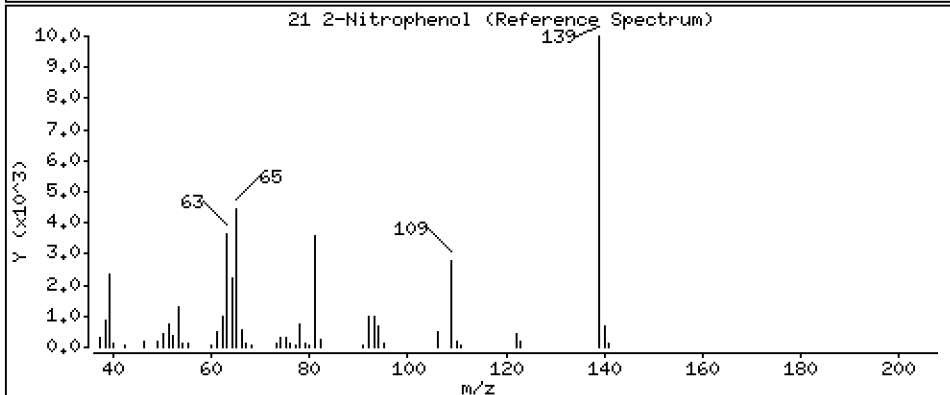
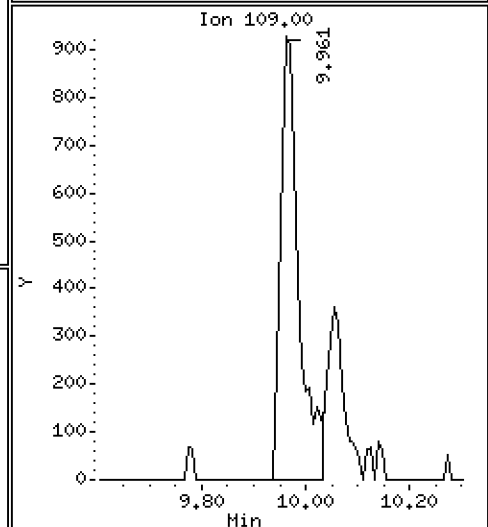
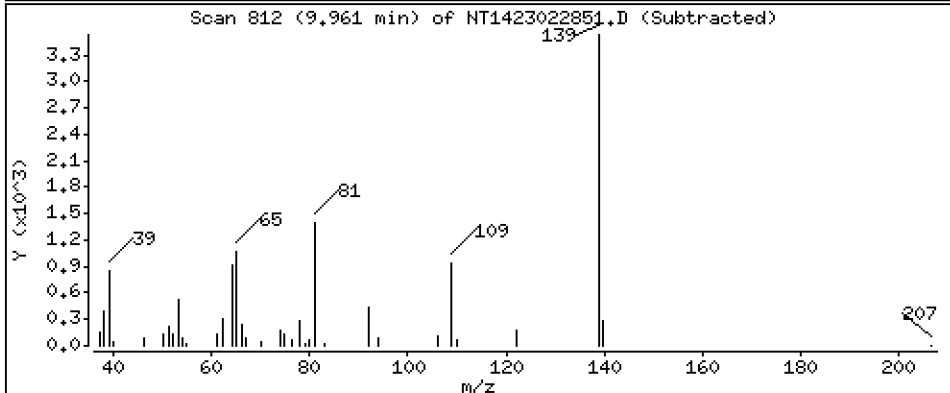
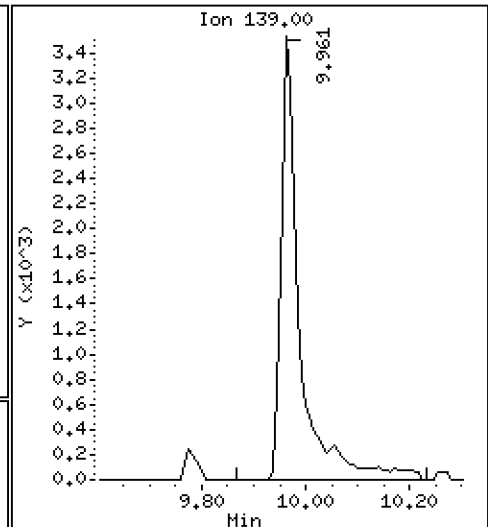
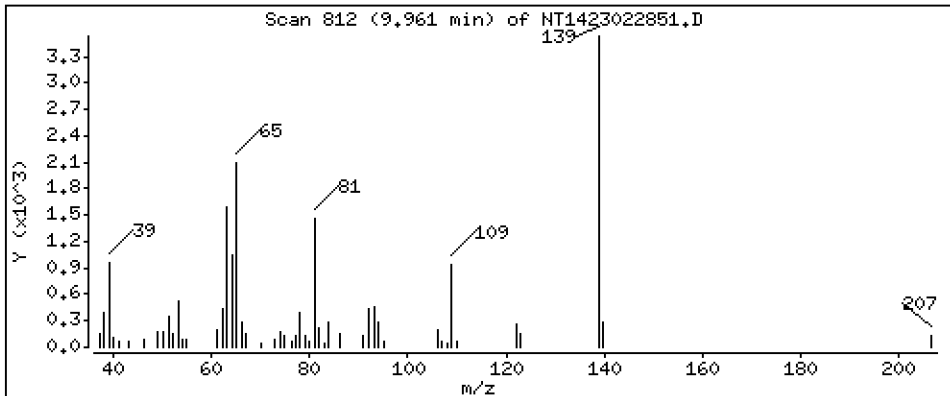
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

21 2-Nitrophenol

Concentration: 0.4685 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

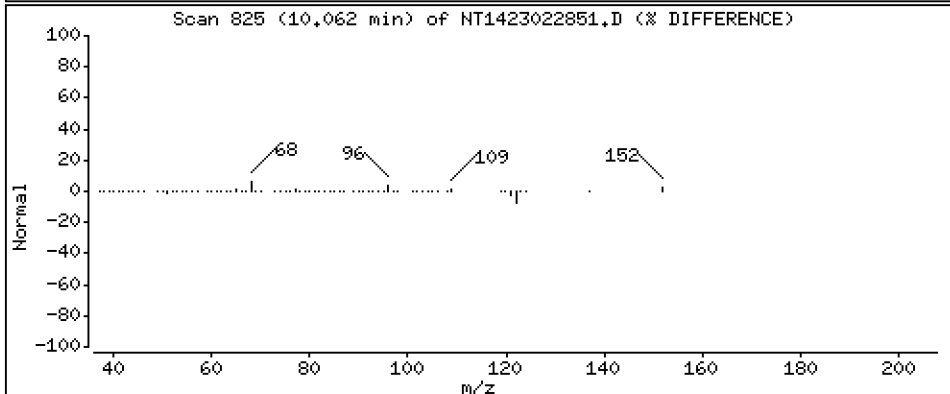
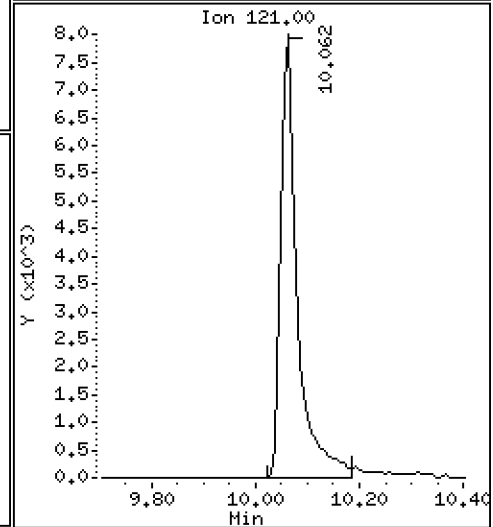
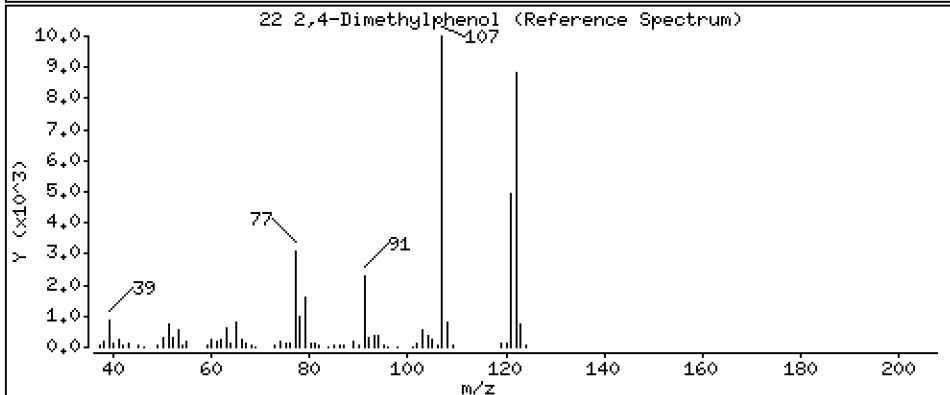
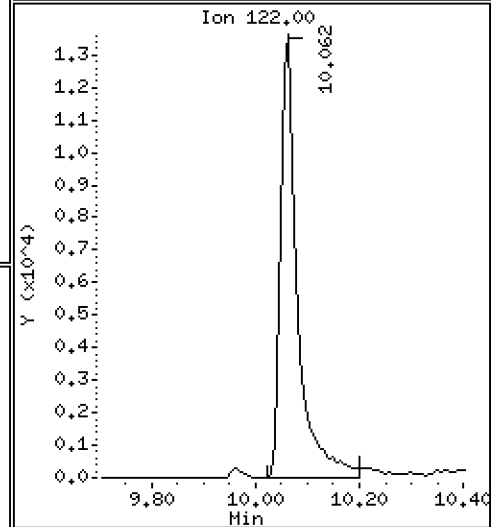
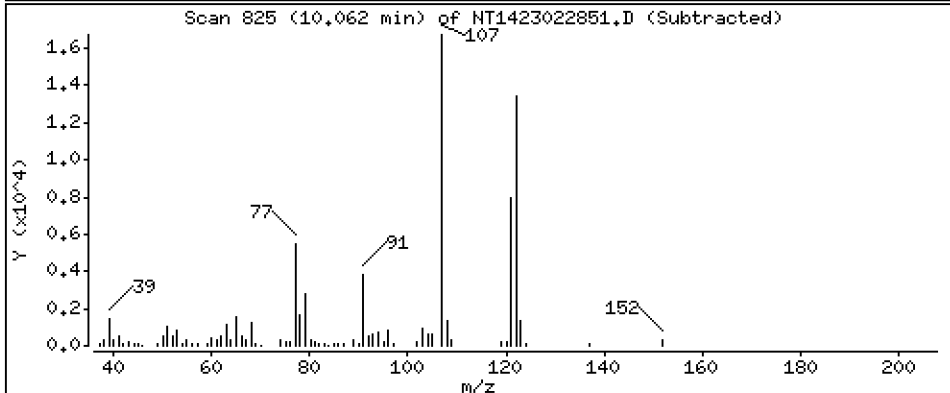
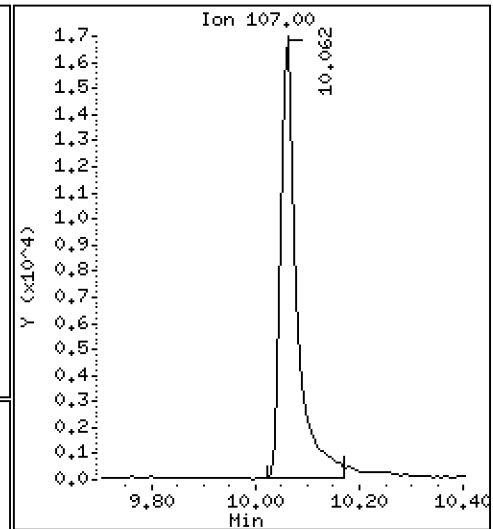
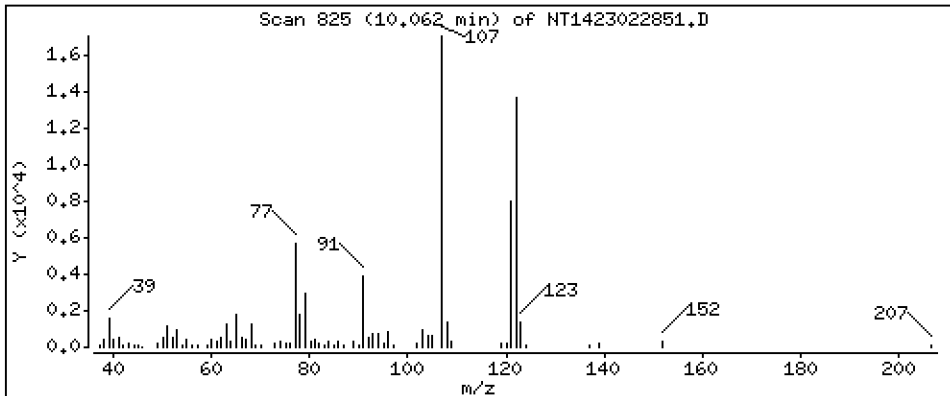
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 1,033 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

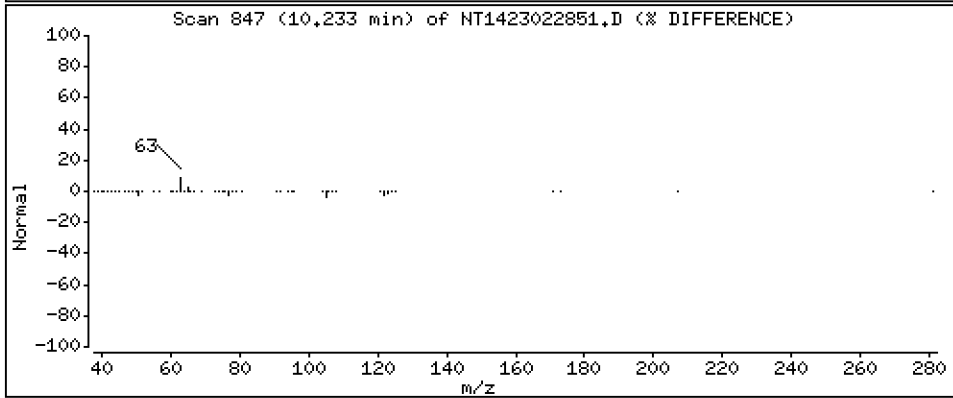
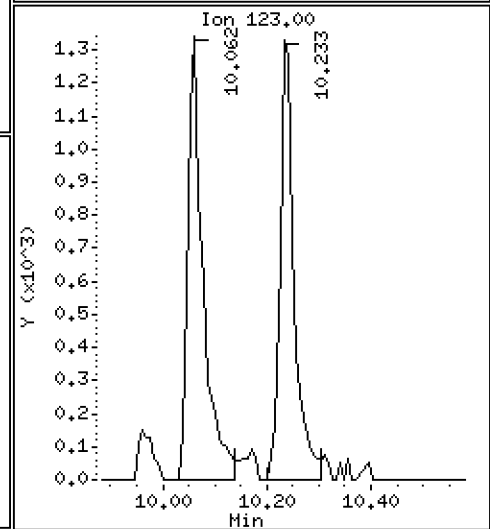
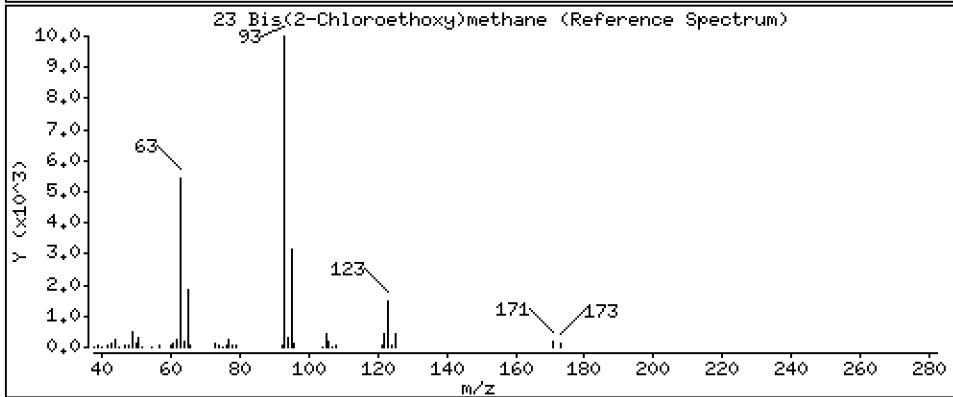
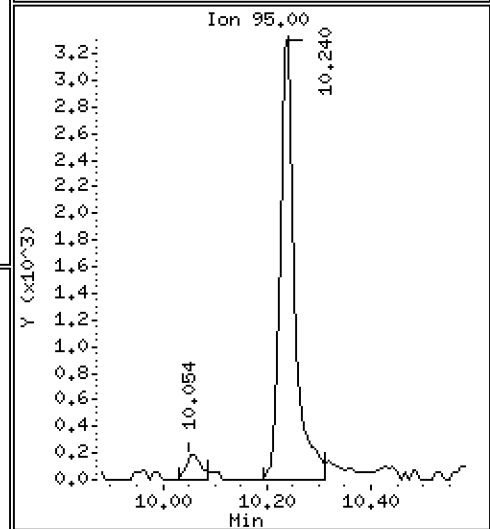
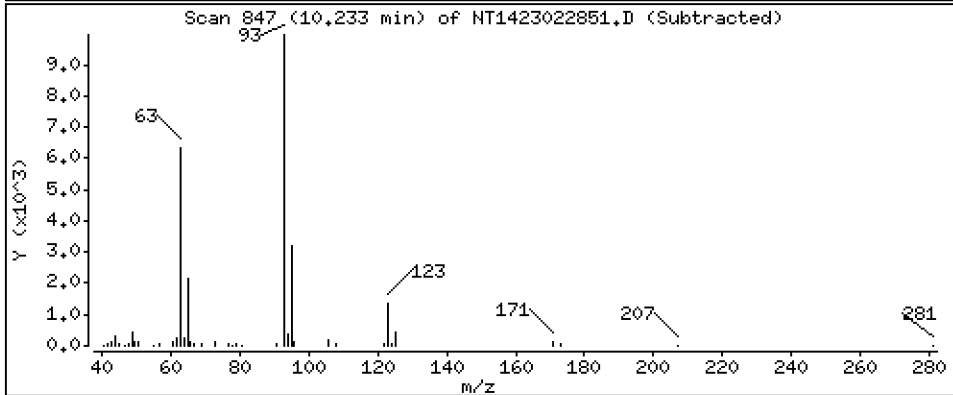
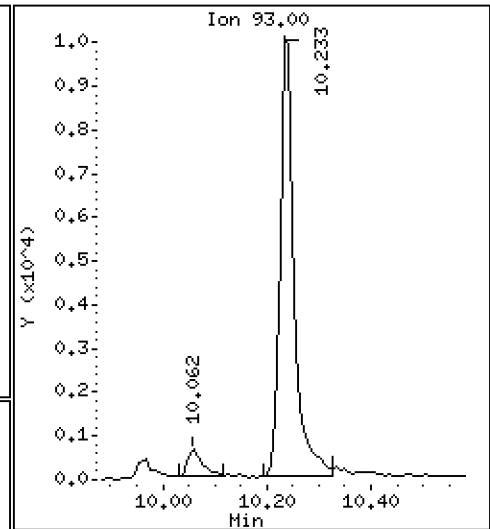
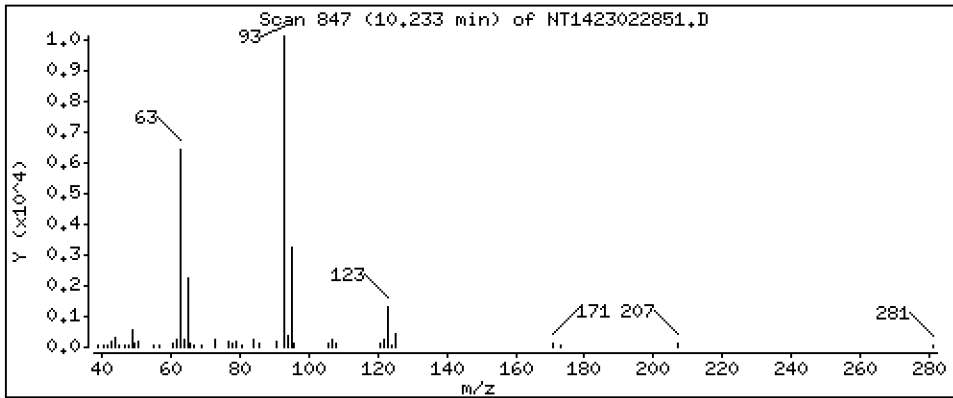
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,5015 ug/mL





Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

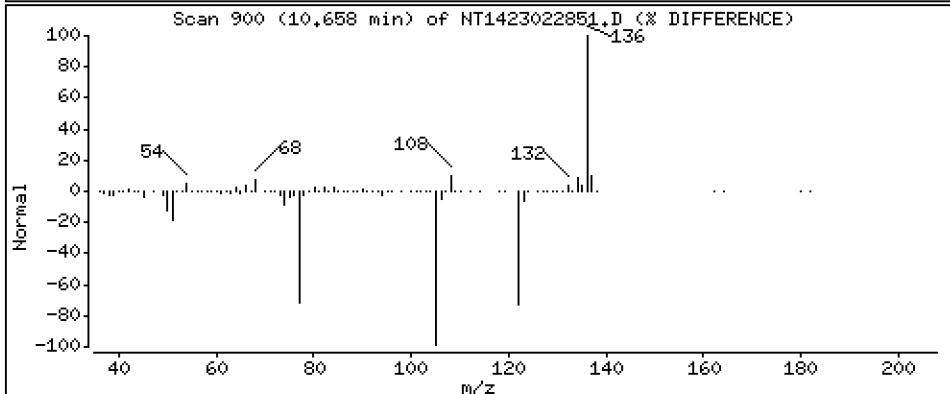
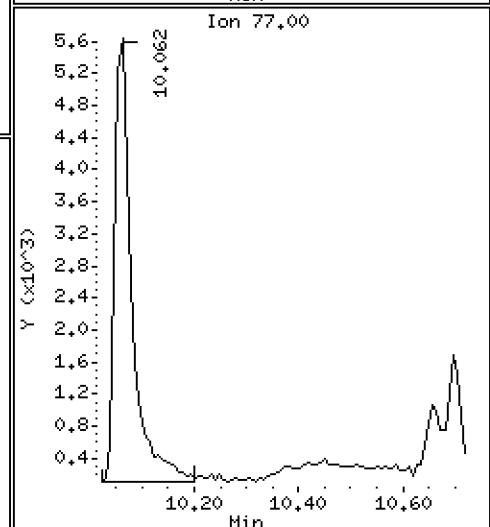
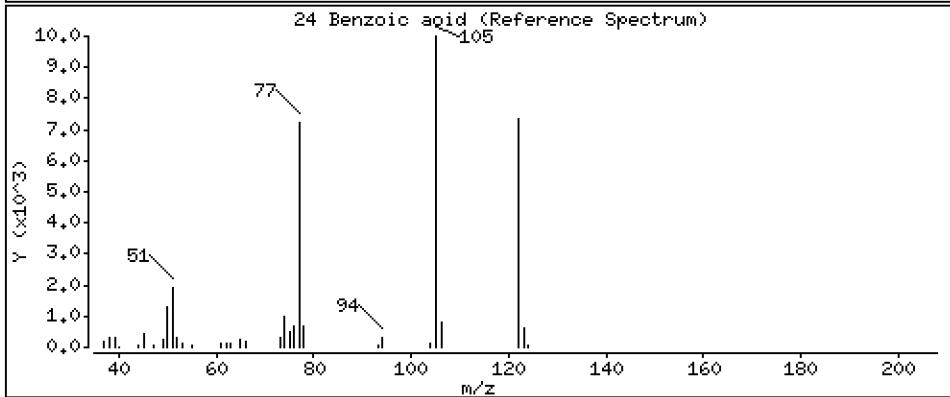
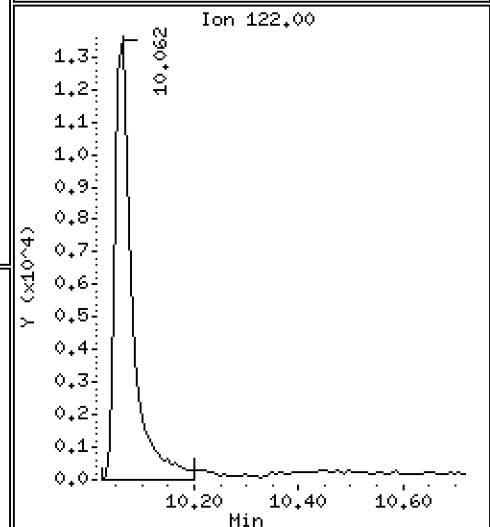
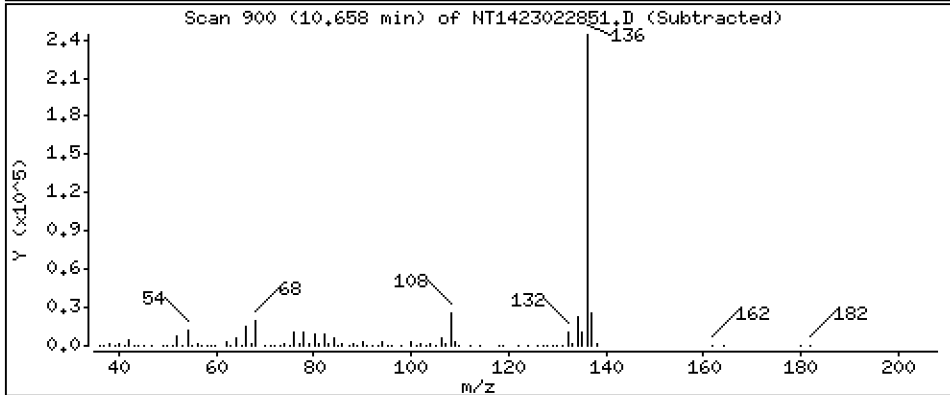
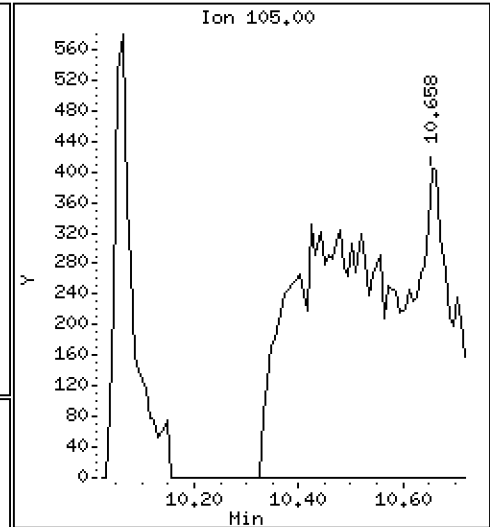
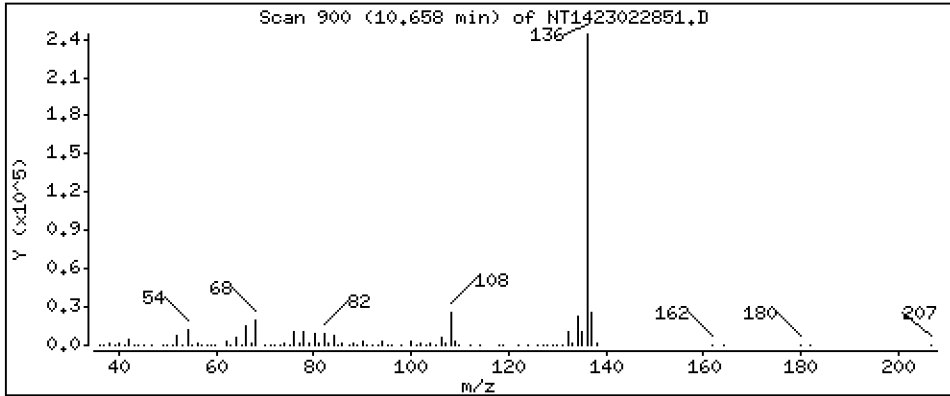
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 1,087 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

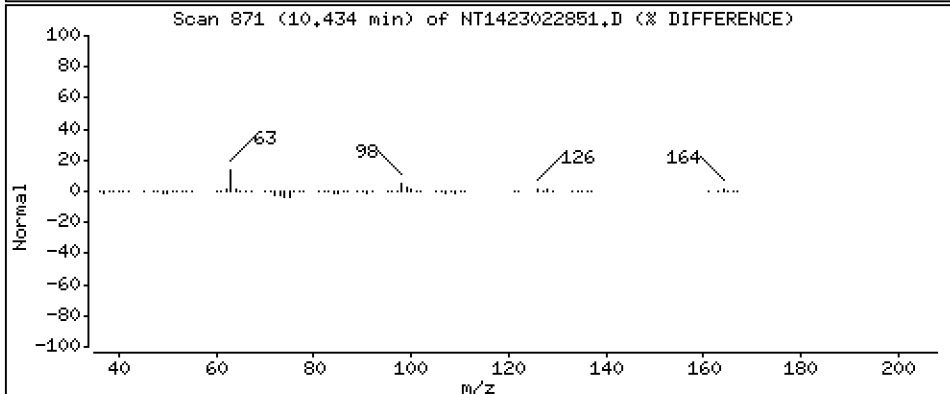
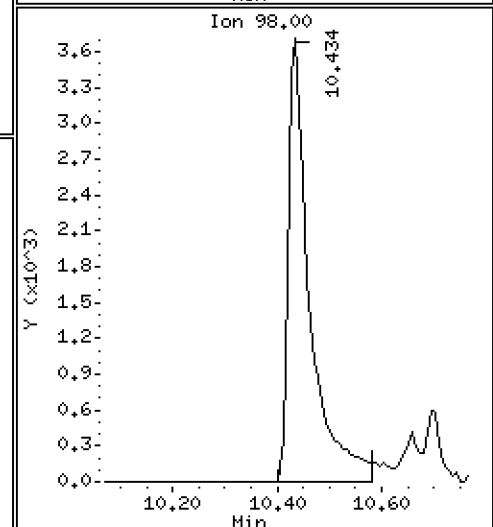
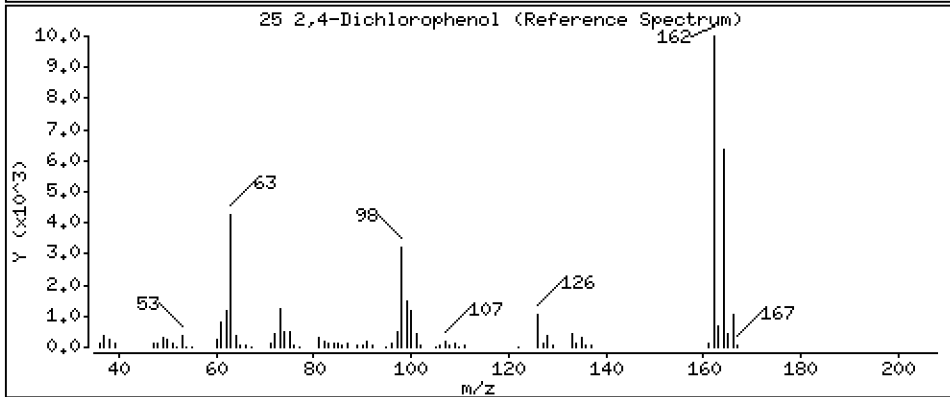
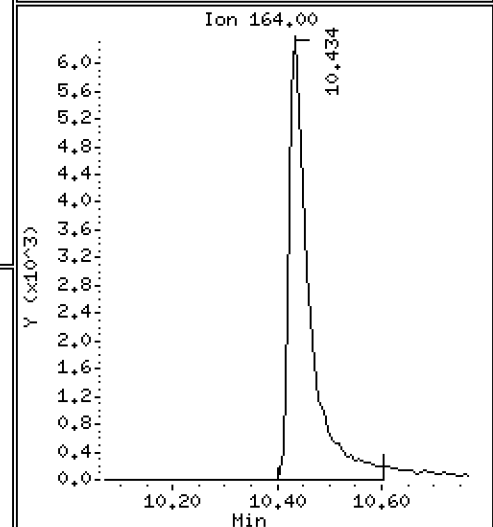
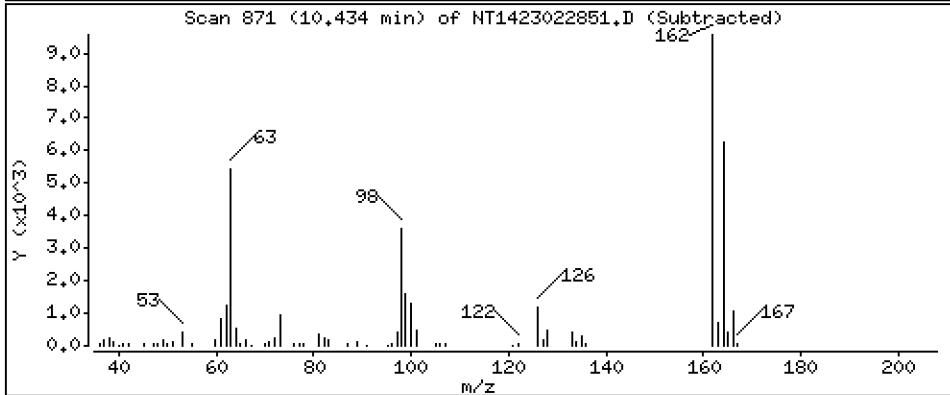
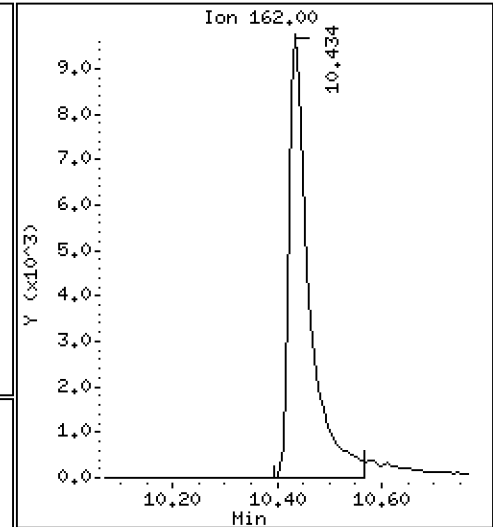
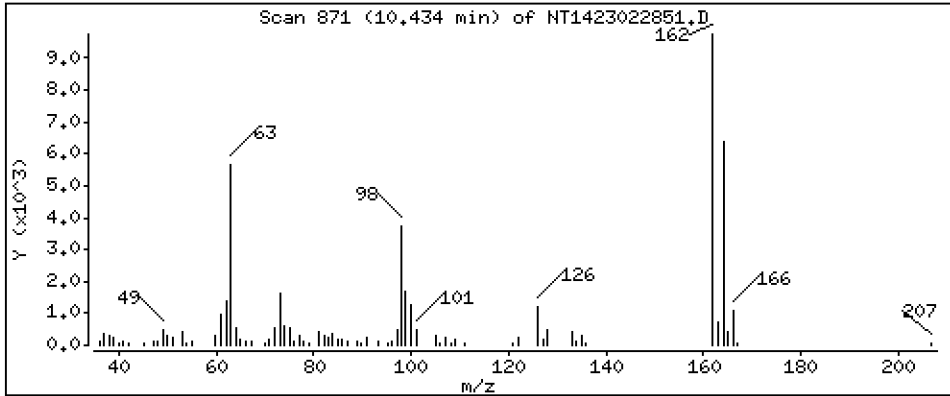
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,7757 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

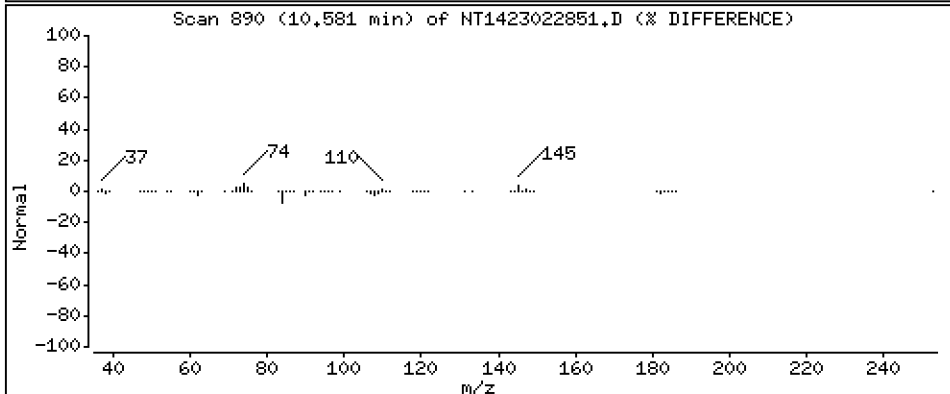
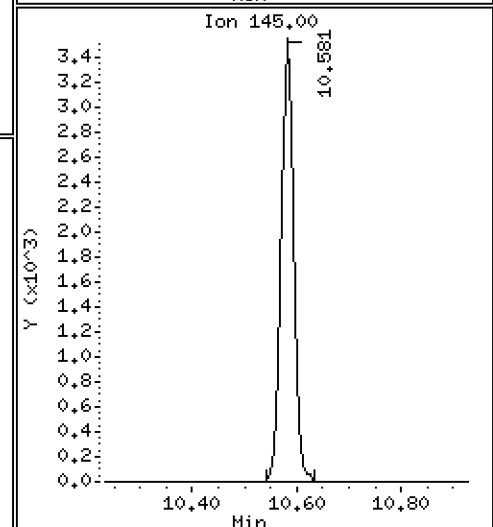
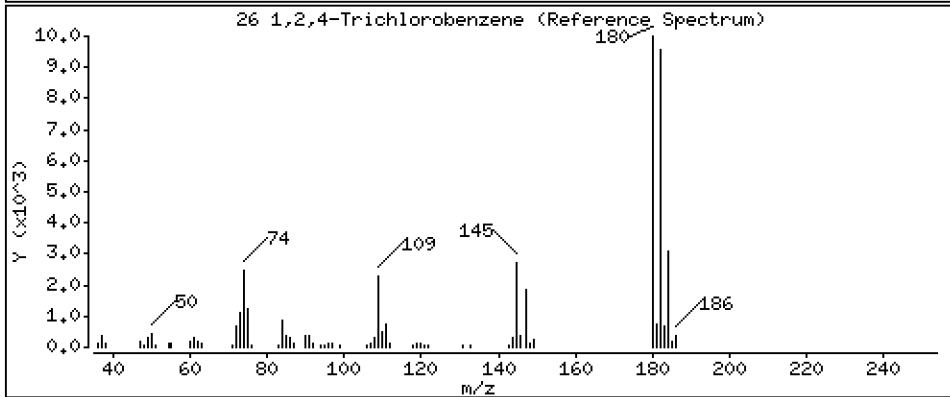
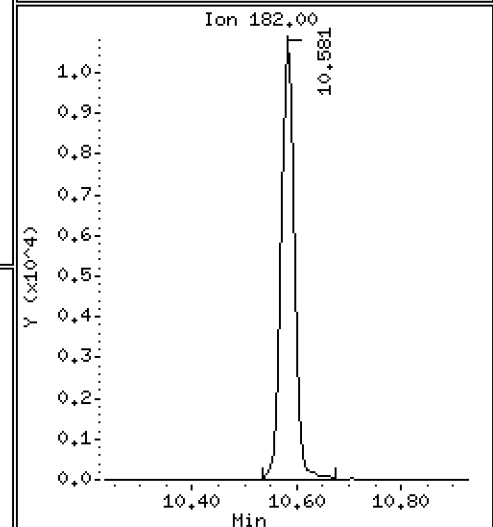
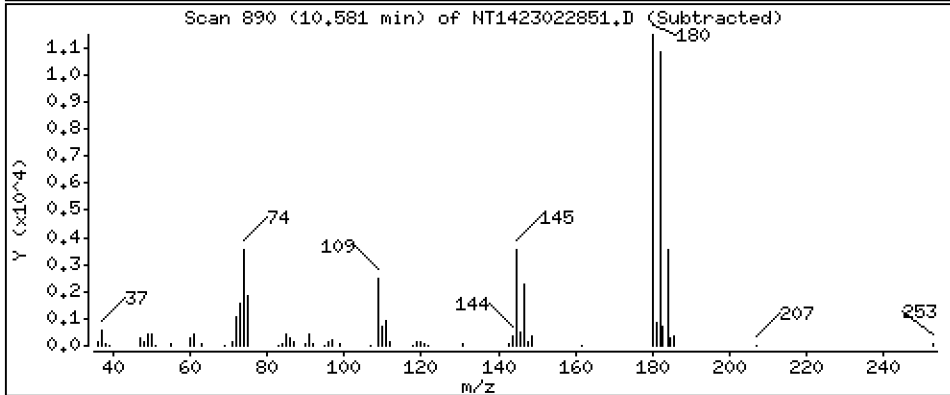
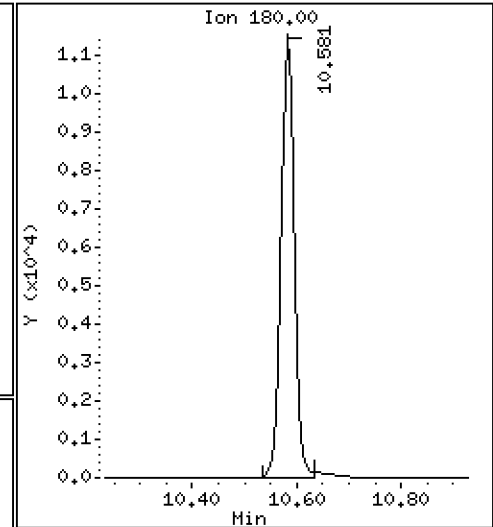
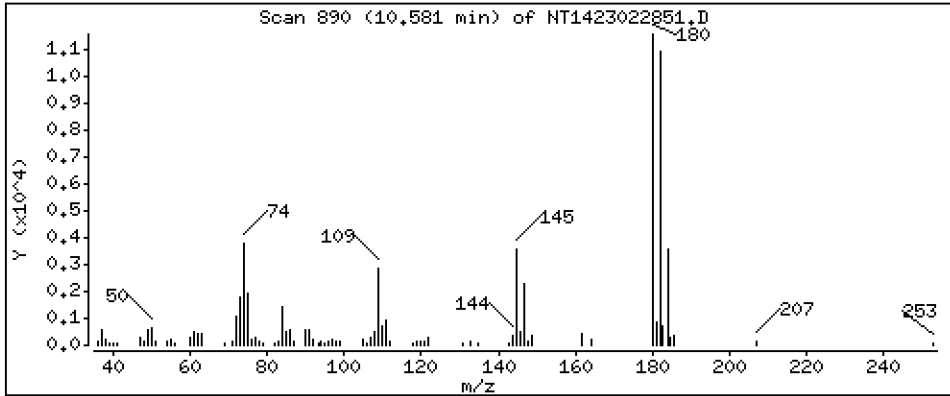
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,4890 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

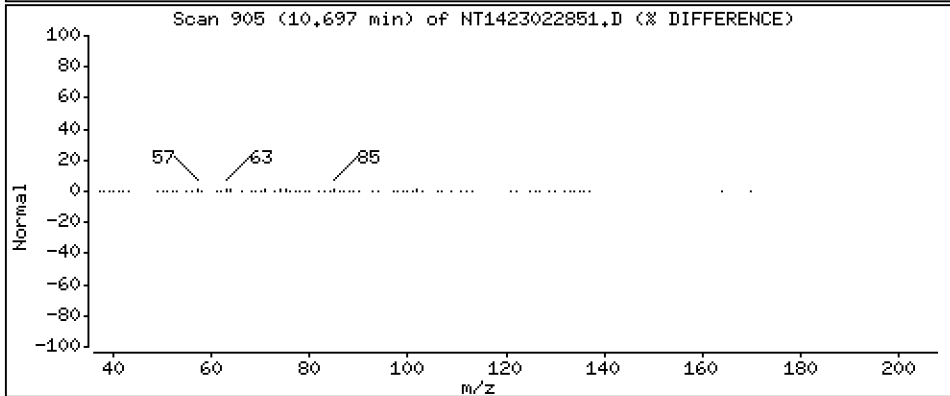
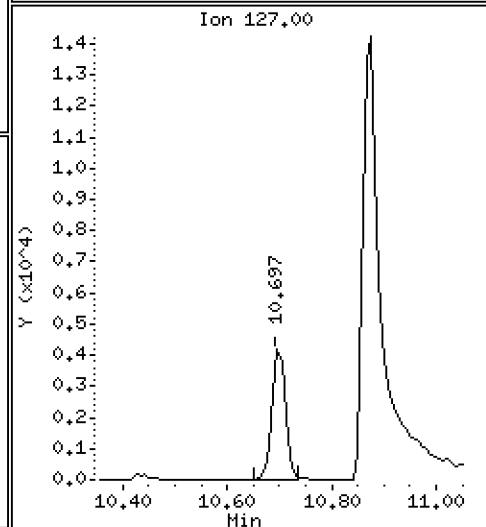
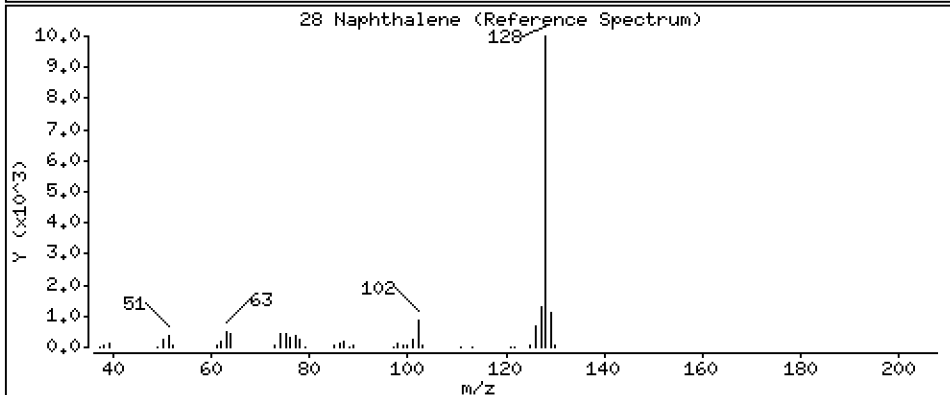
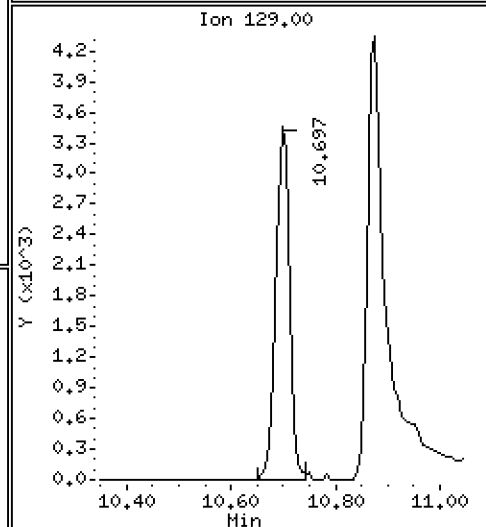
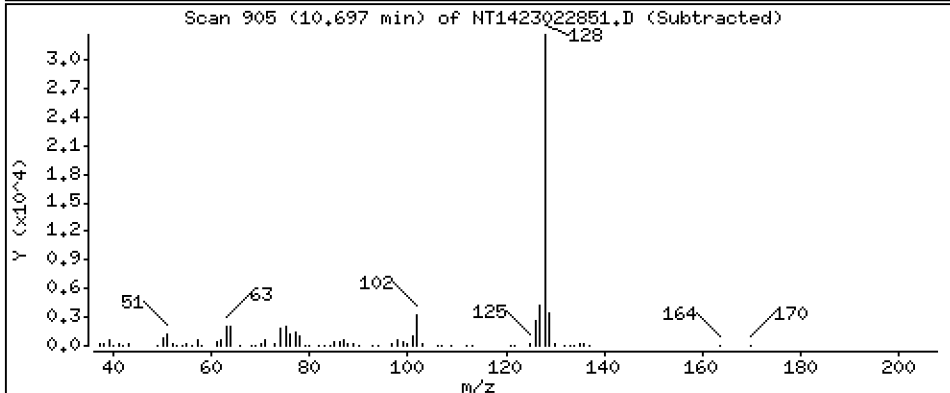
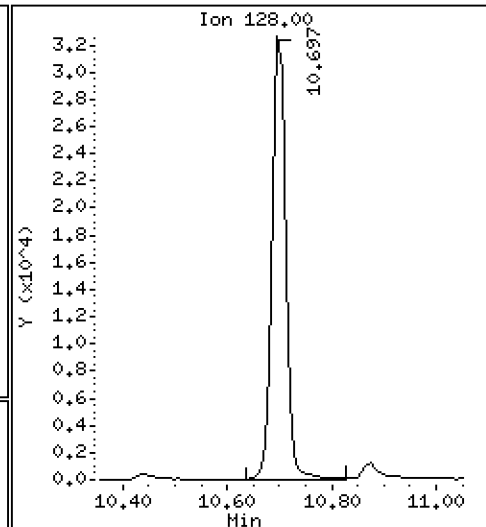
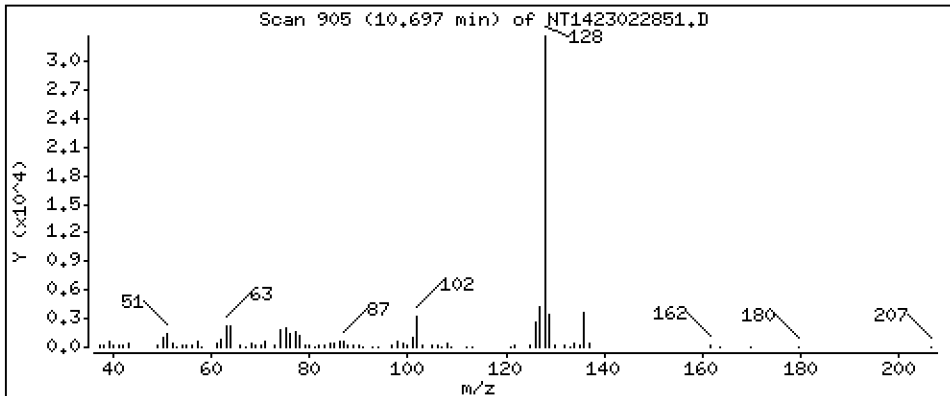
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,5296 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

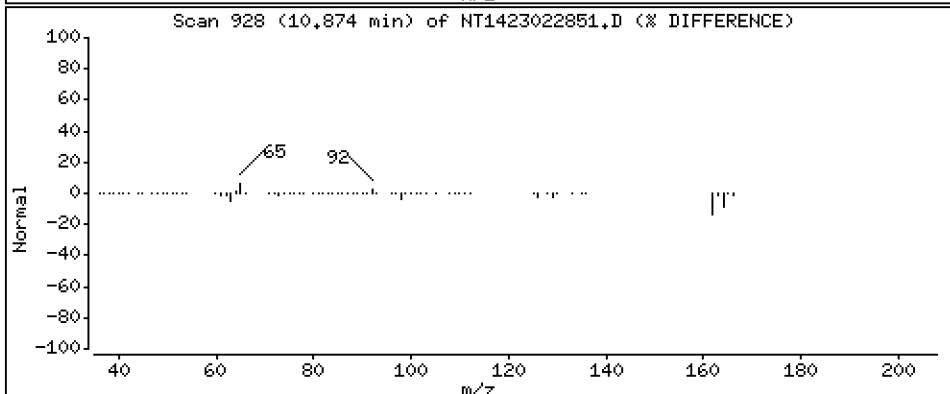
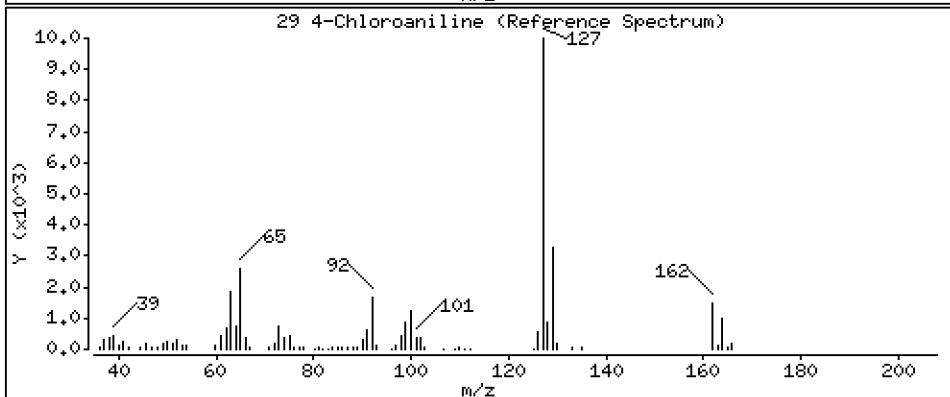
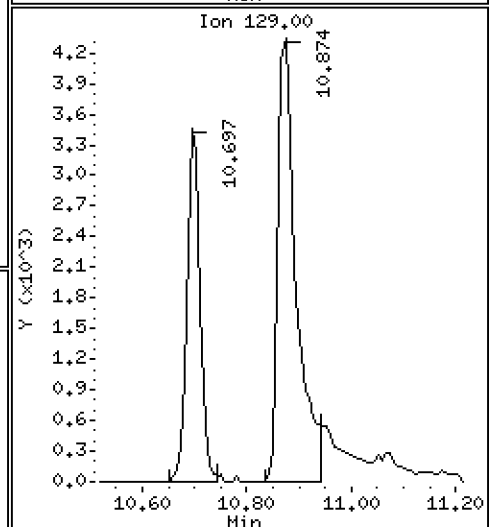
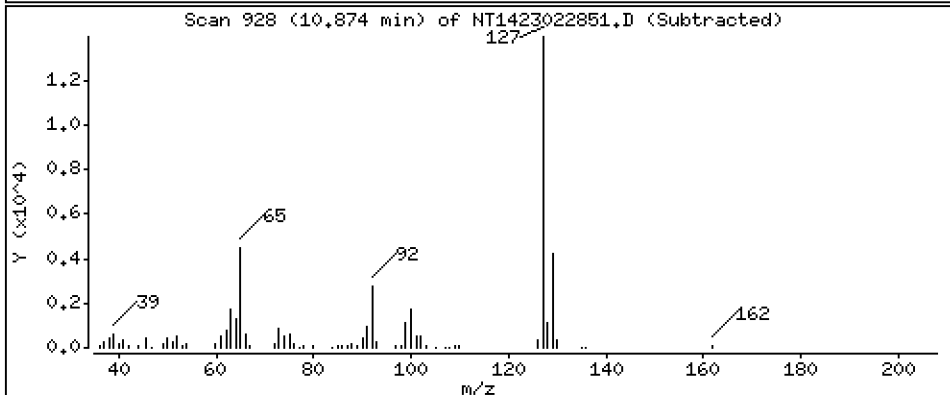
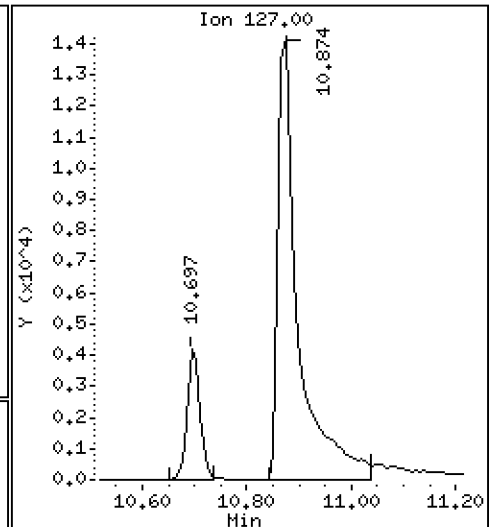
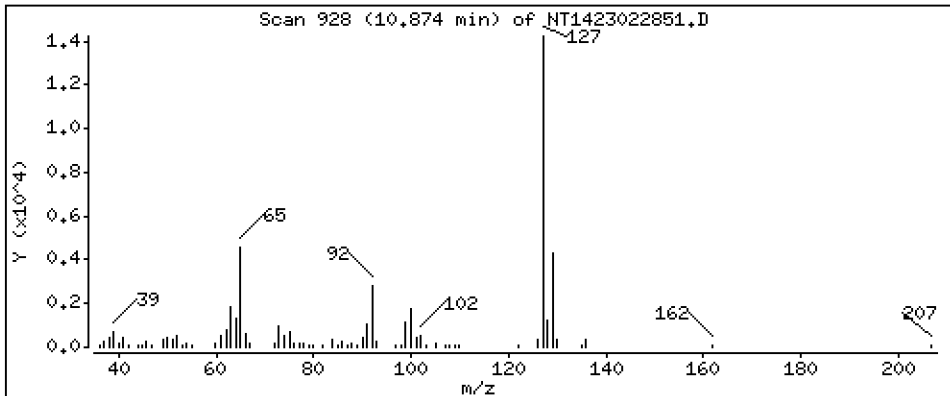
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,8631 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

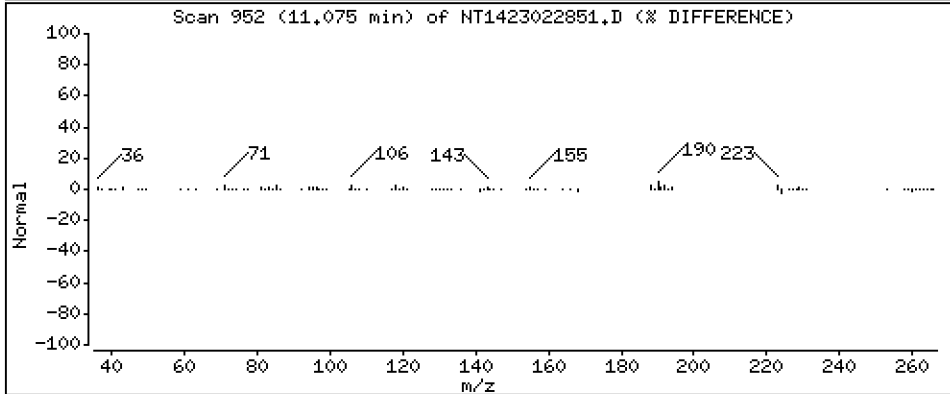
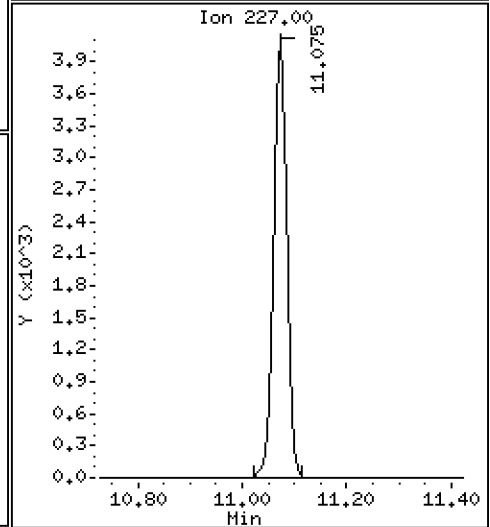
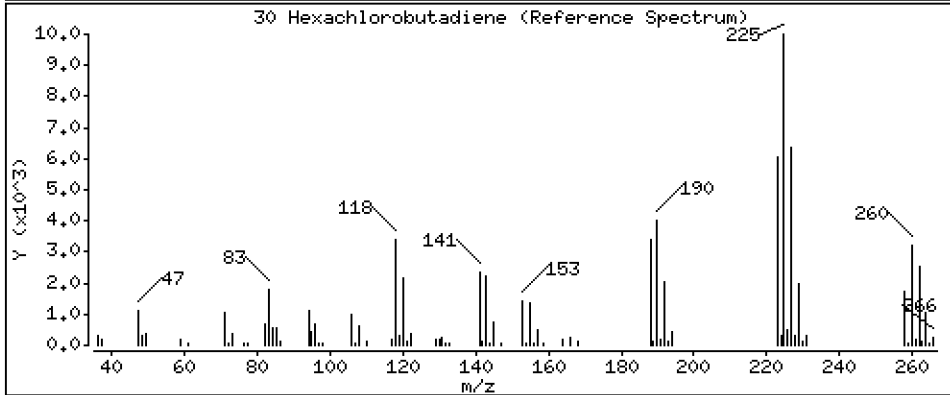
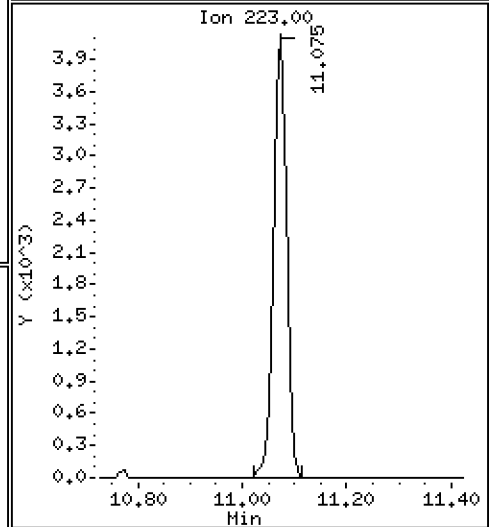
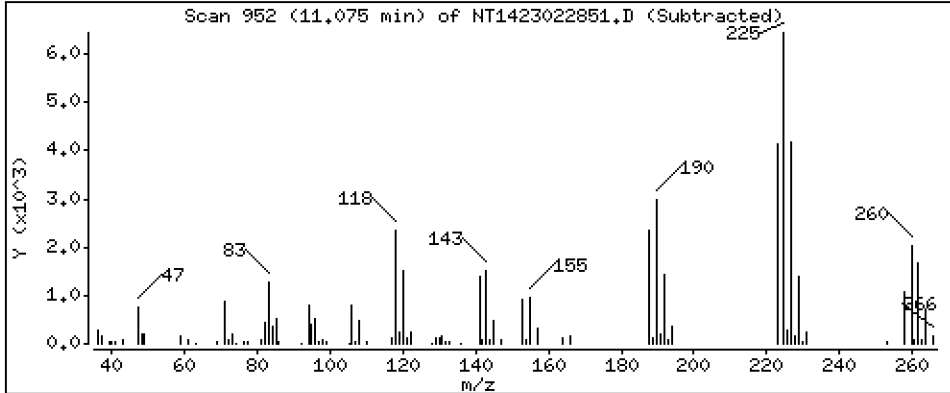
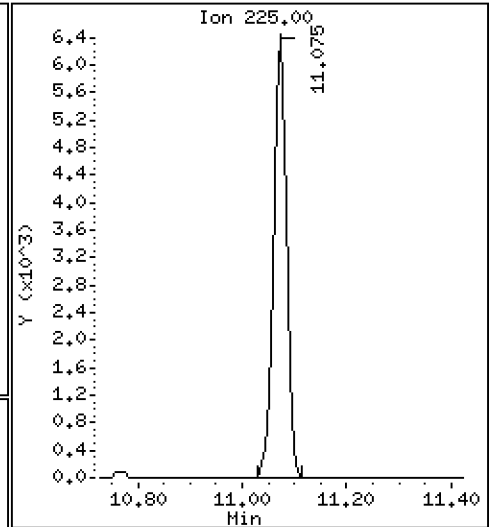
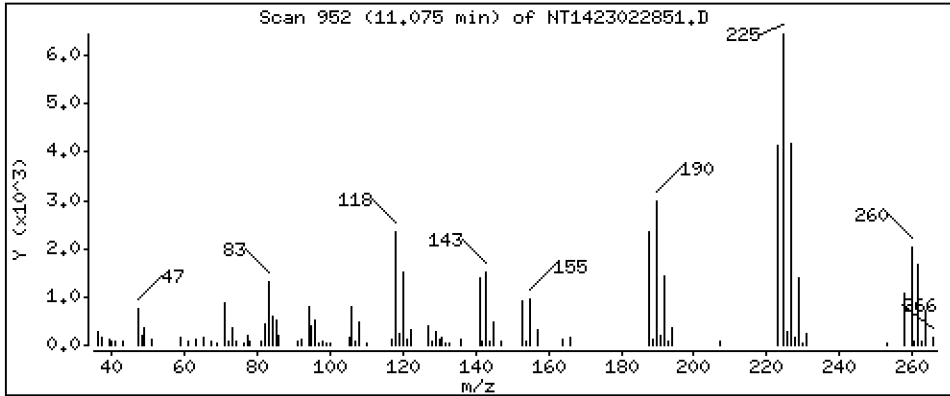
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,4391 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

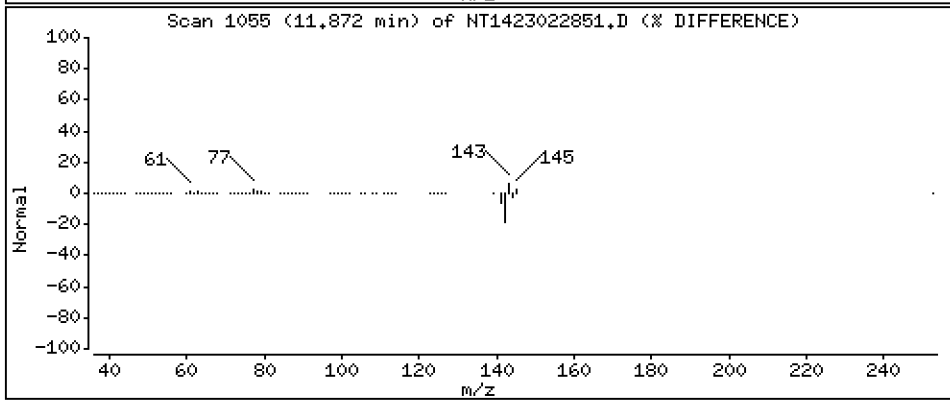
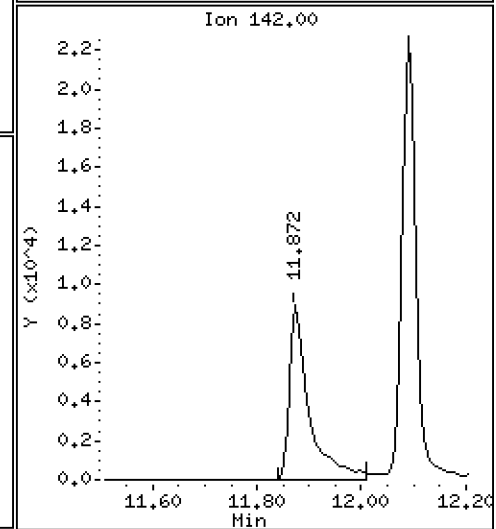
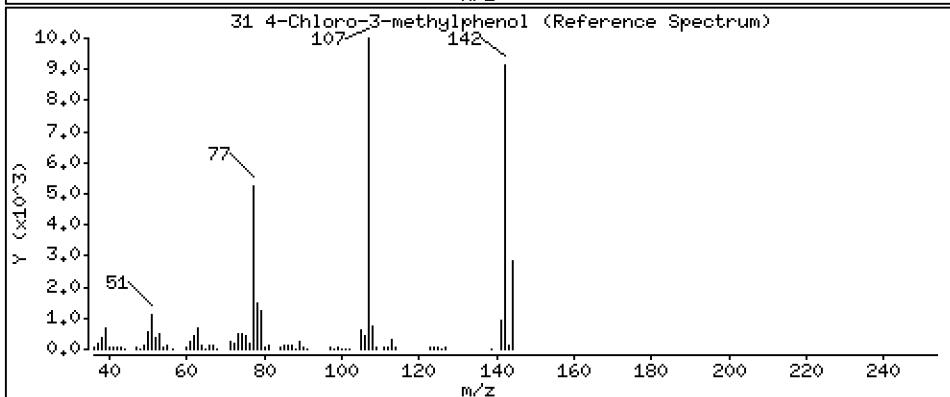
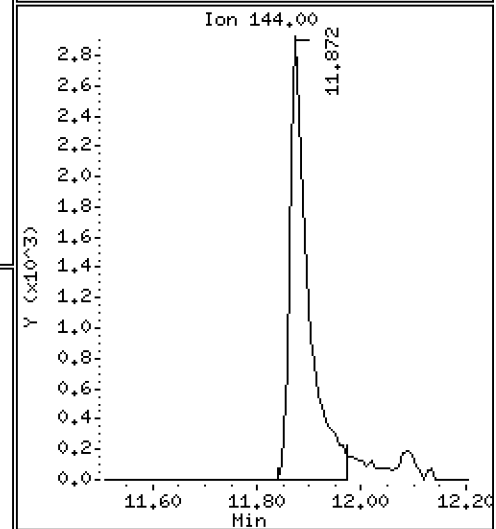
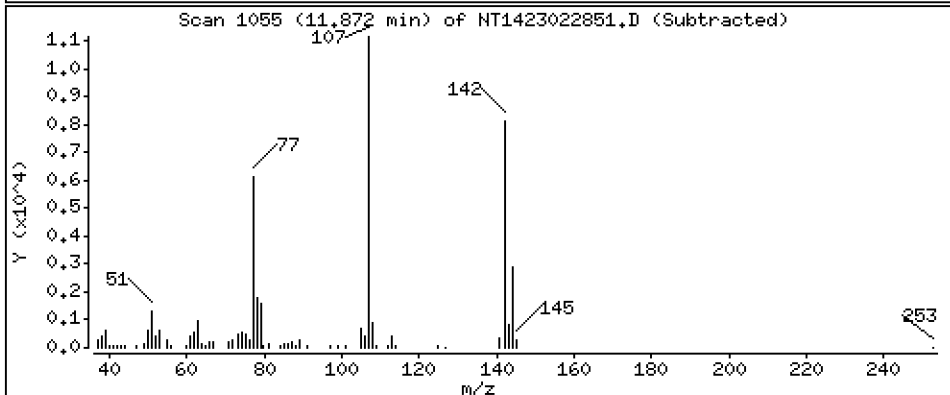
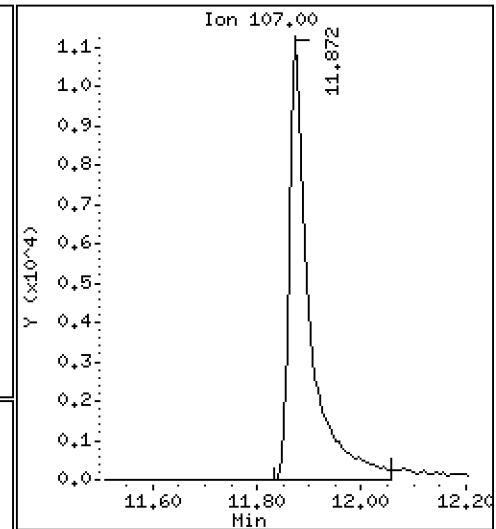
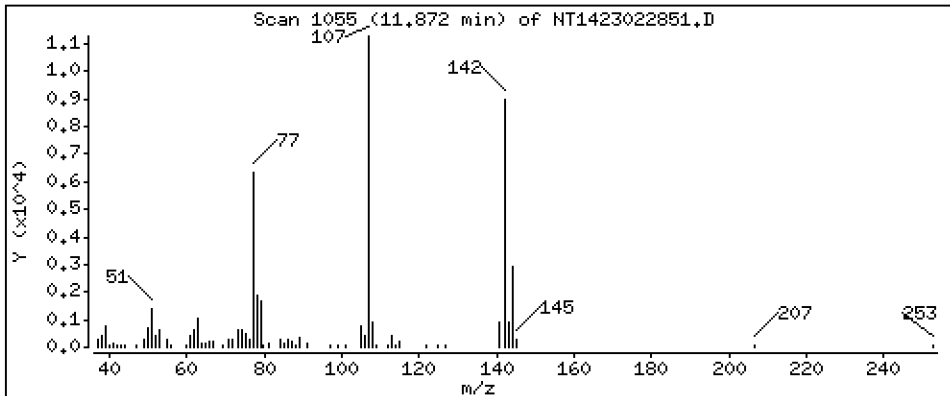
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,9903 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

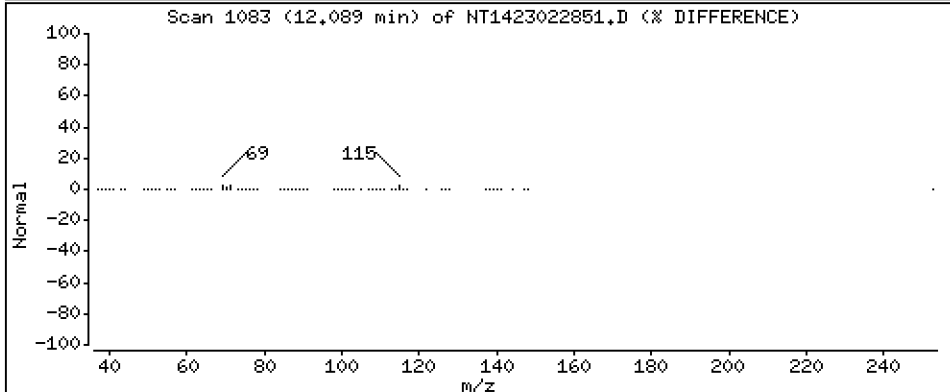
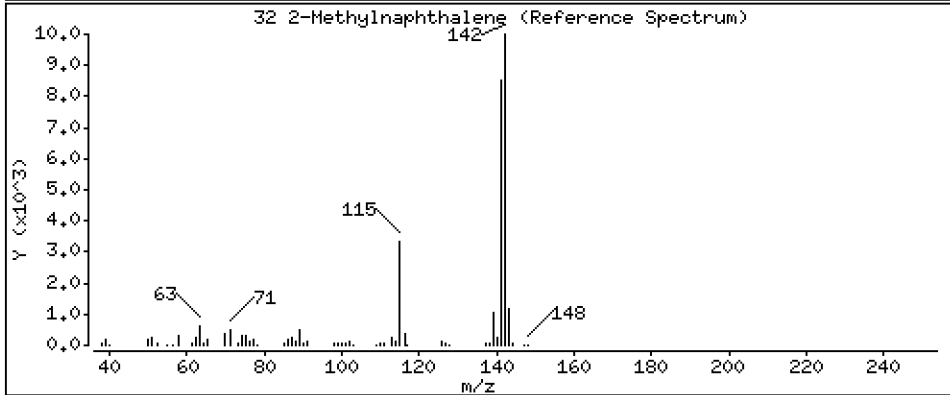
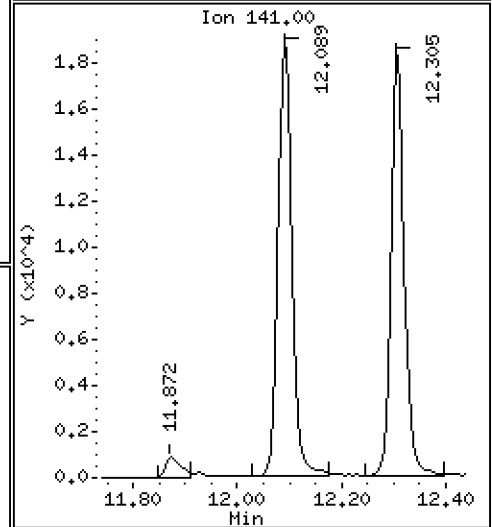
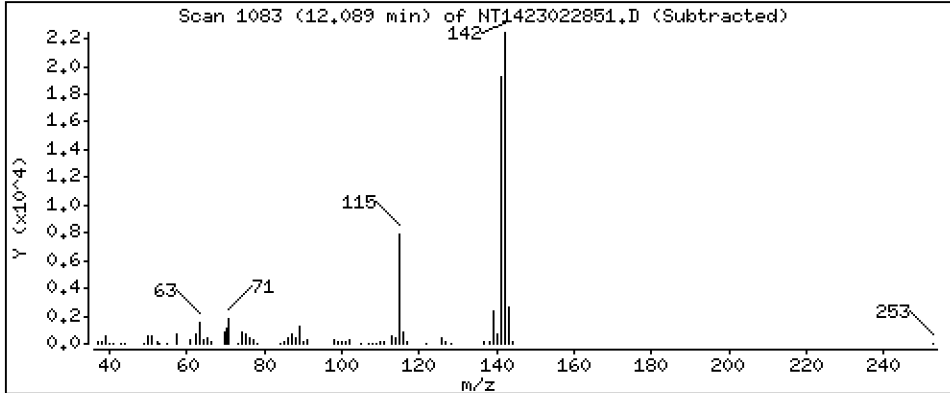
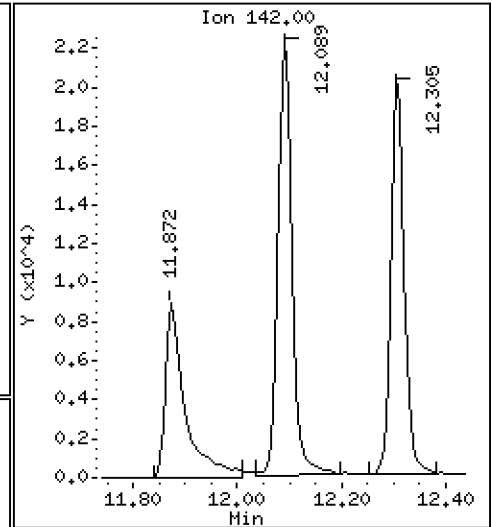
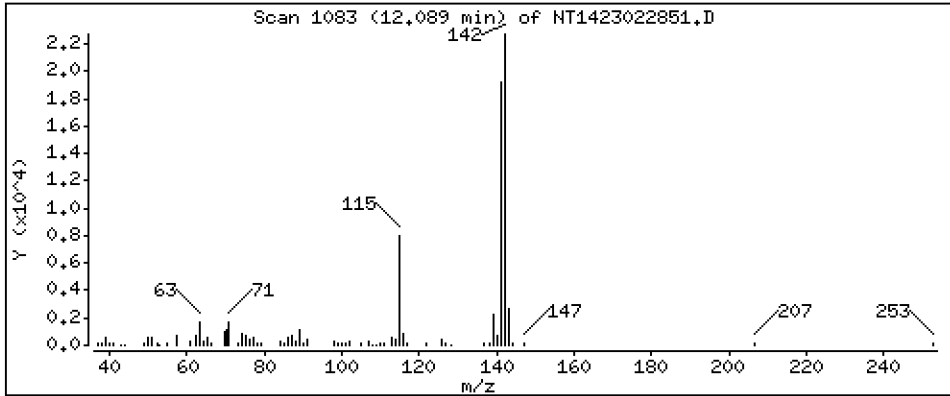
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,4960 ug/mL





Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

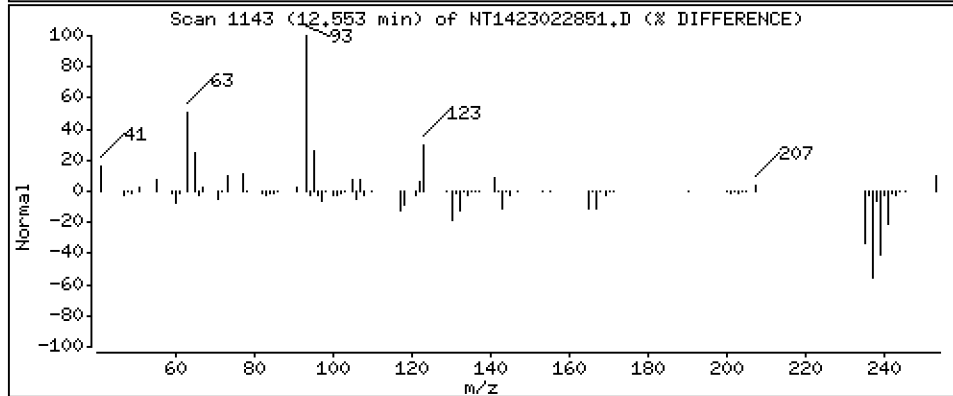
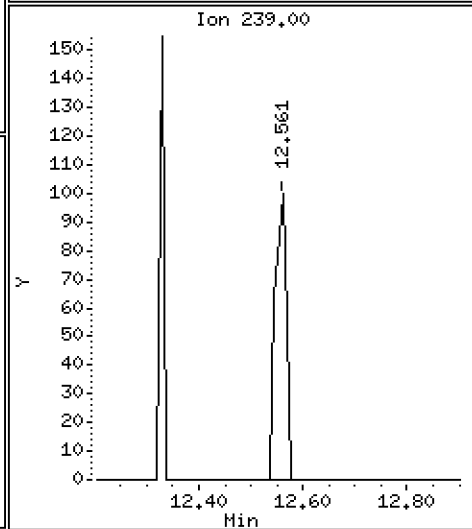
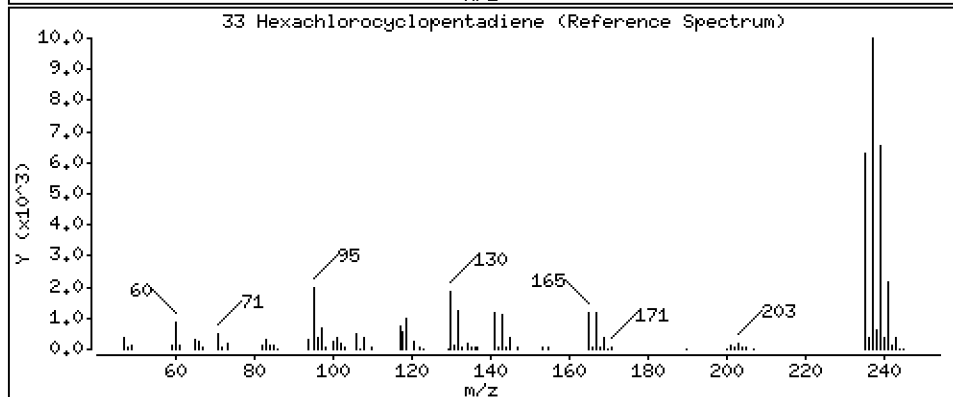
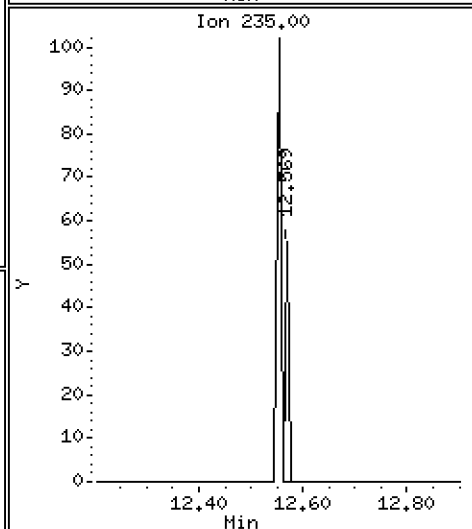
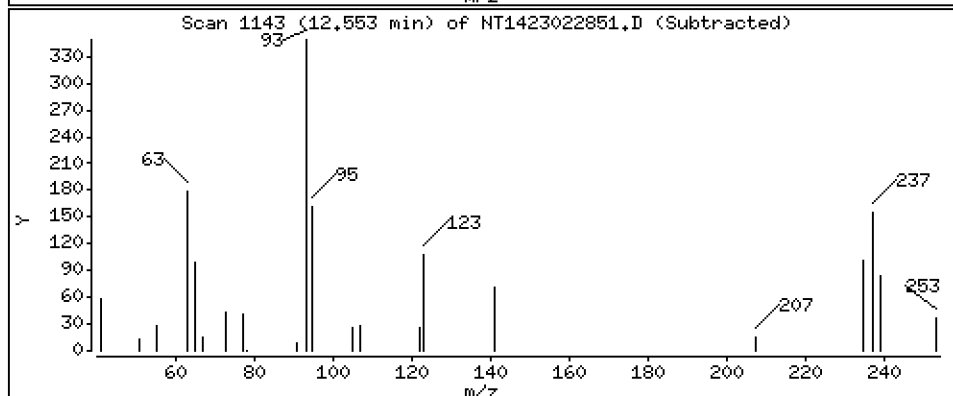
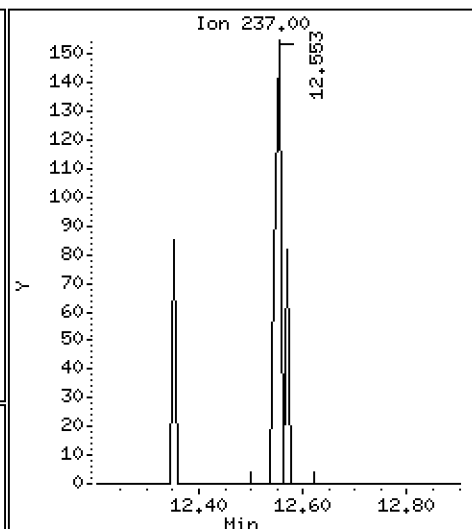
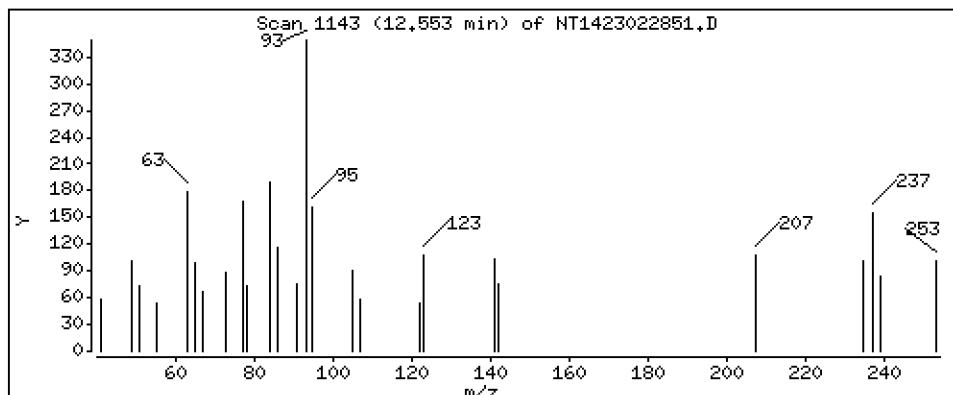
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,006113 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

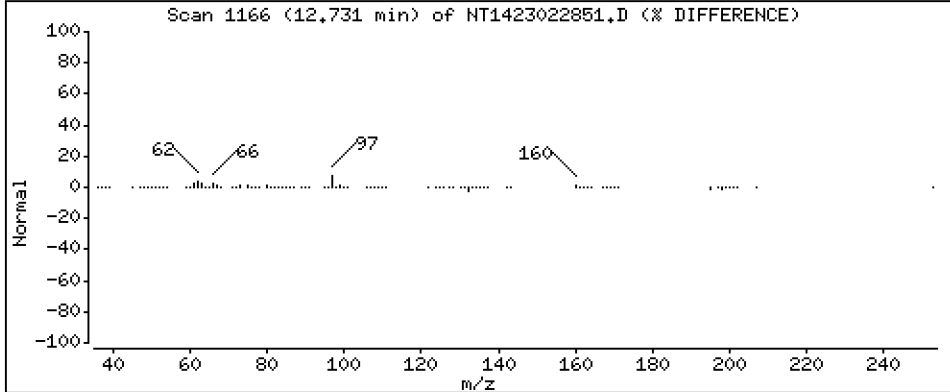
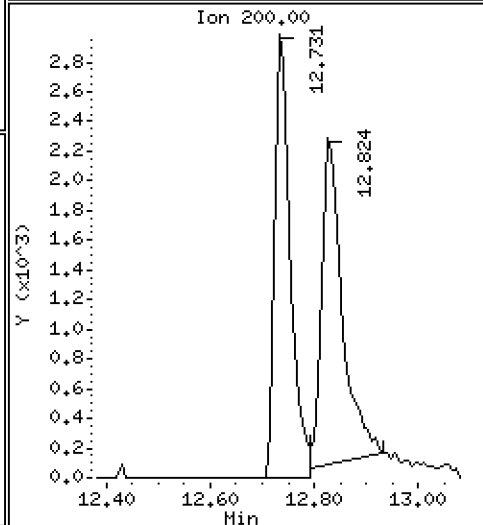
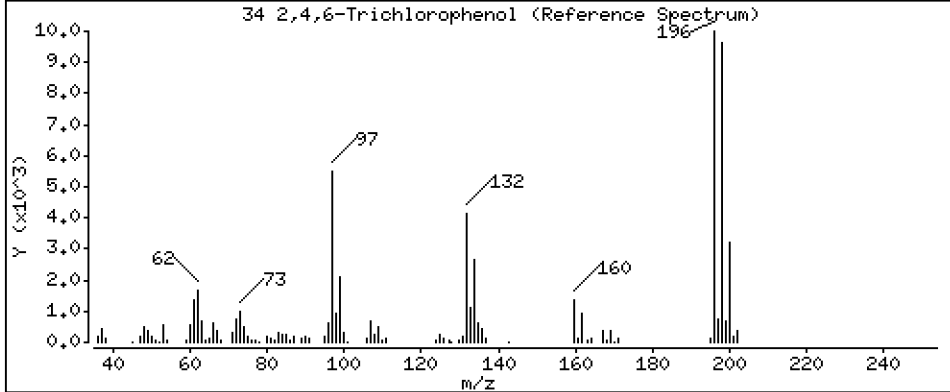
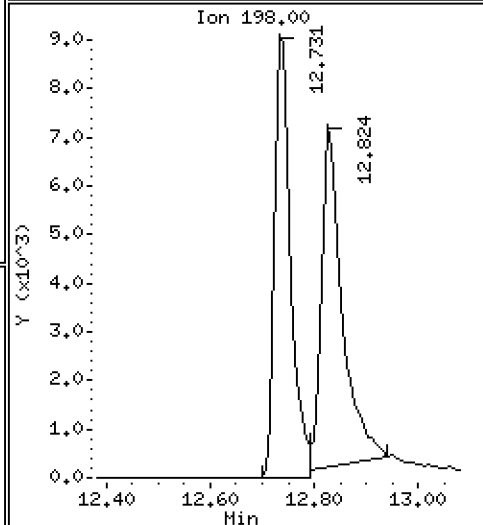
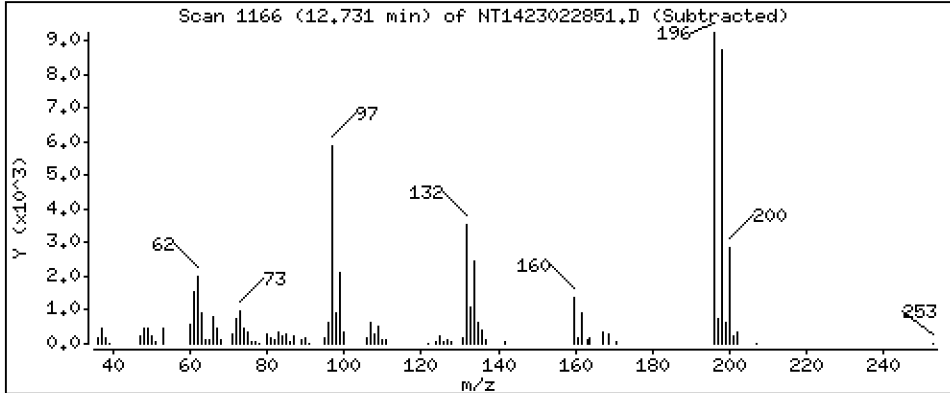
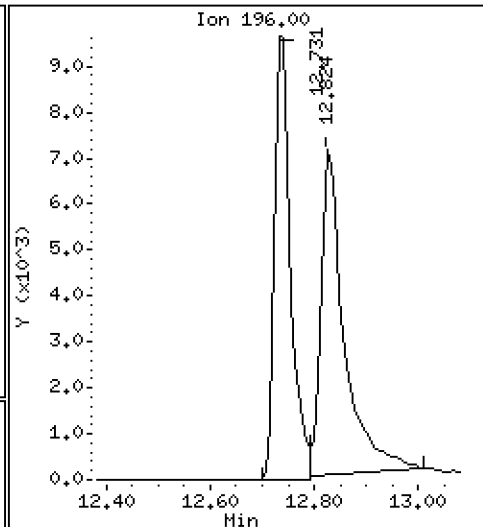
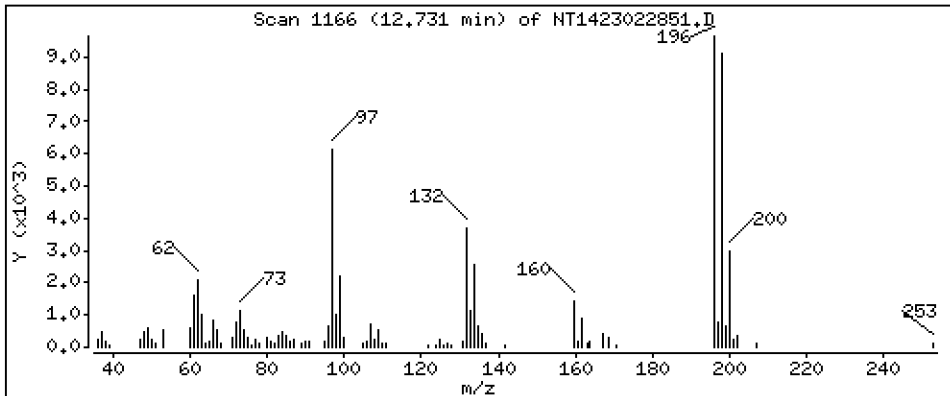
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,9205 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

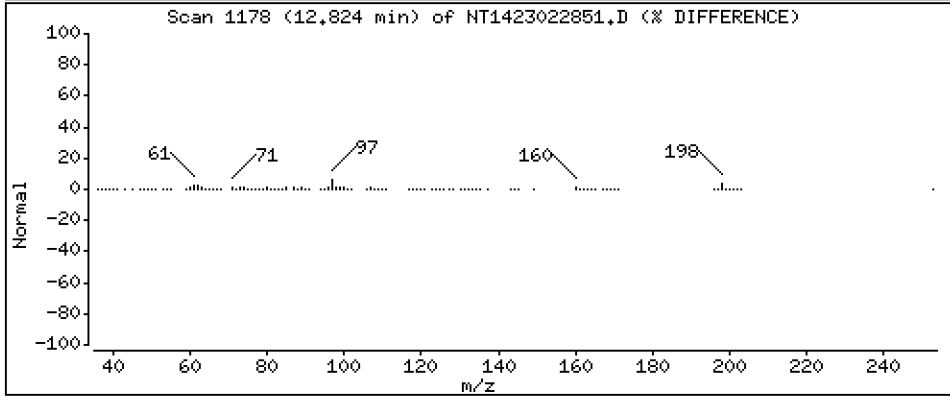
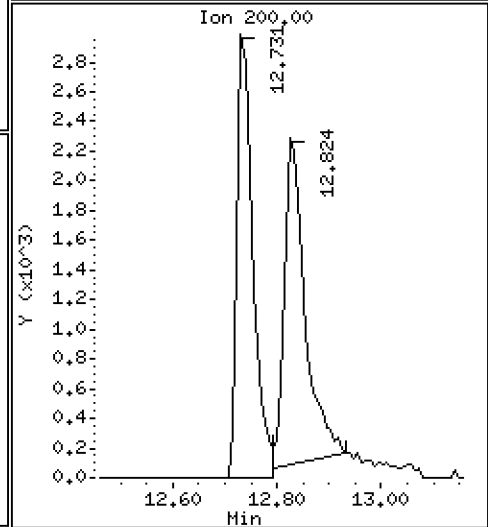
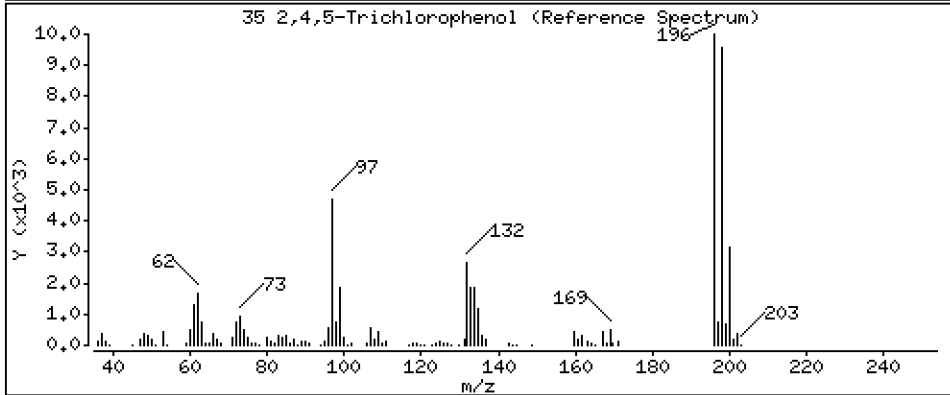
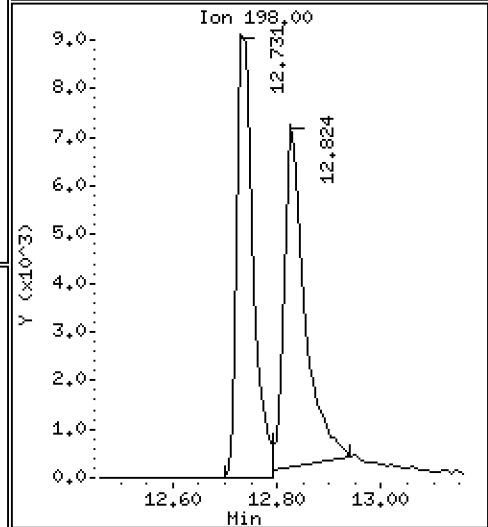
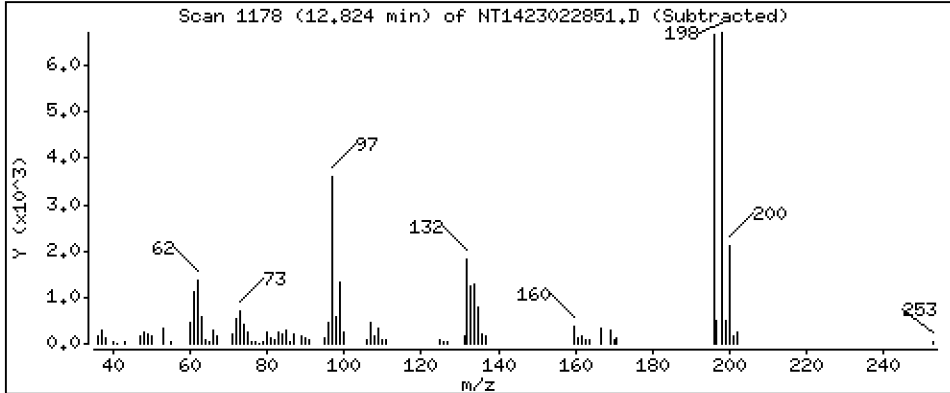
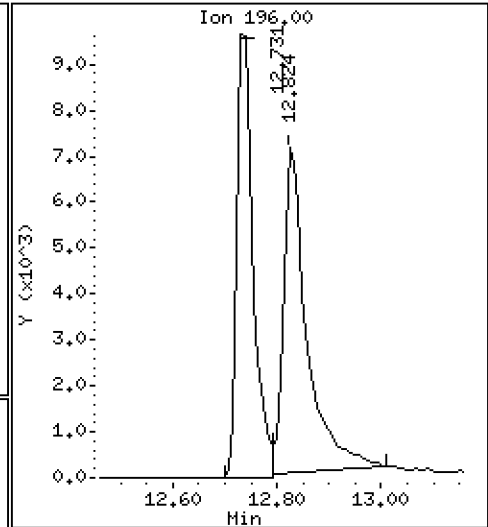
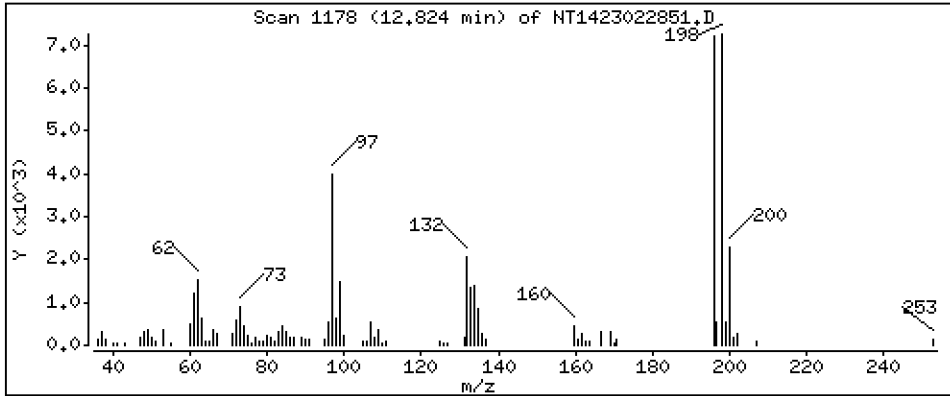
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,9325 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

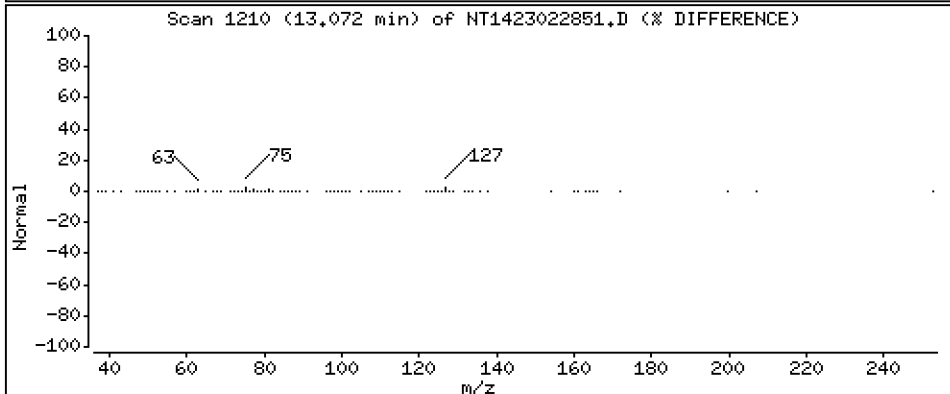
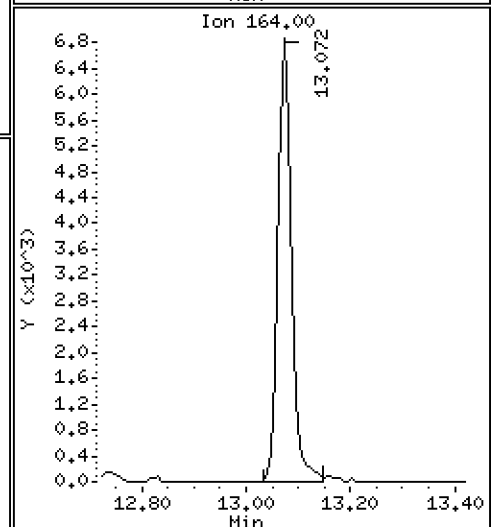
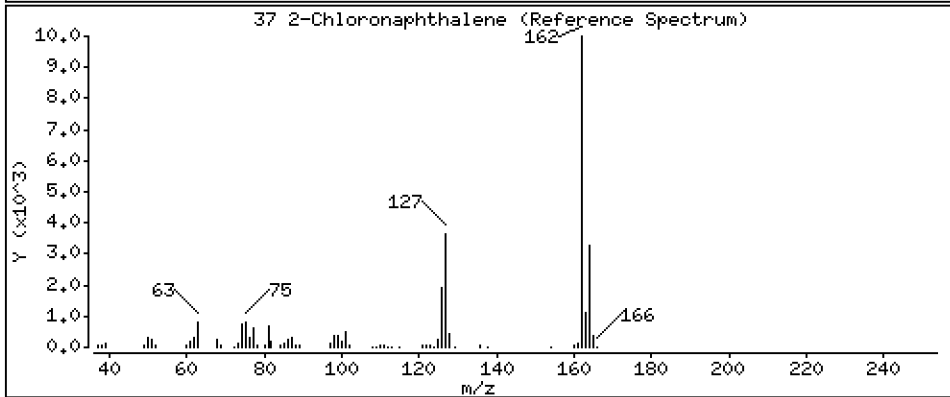
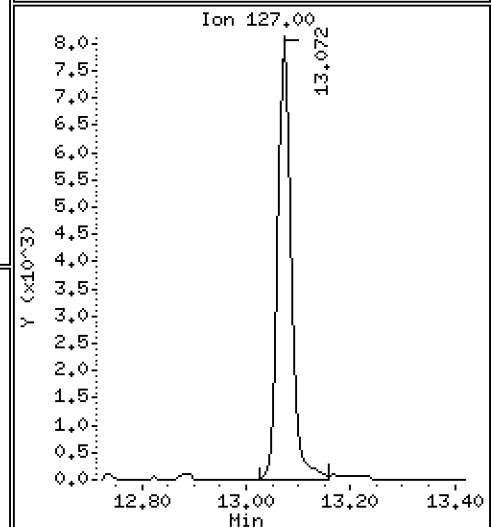
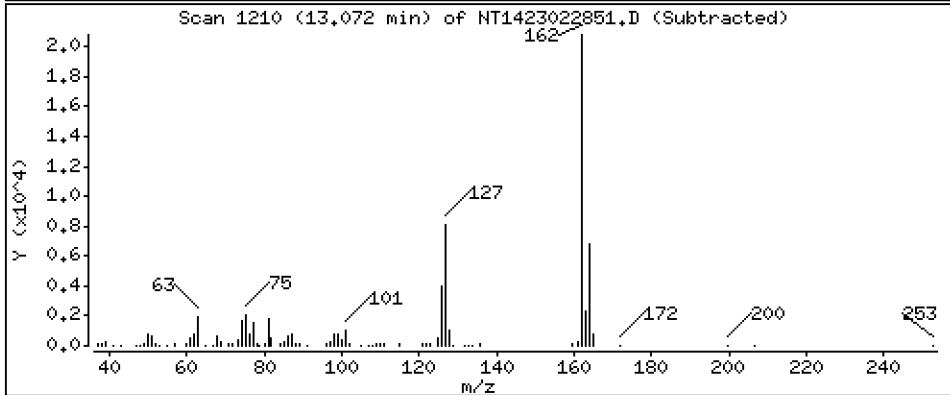
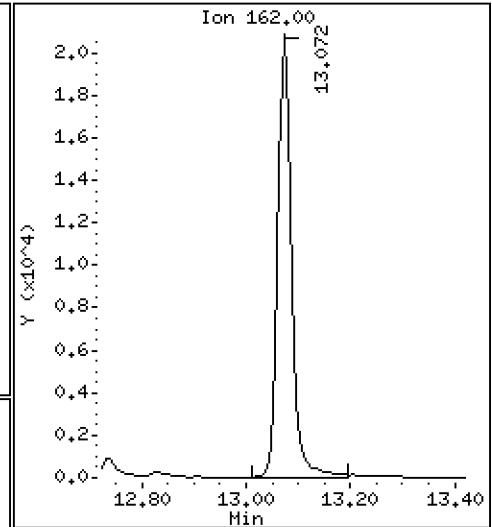
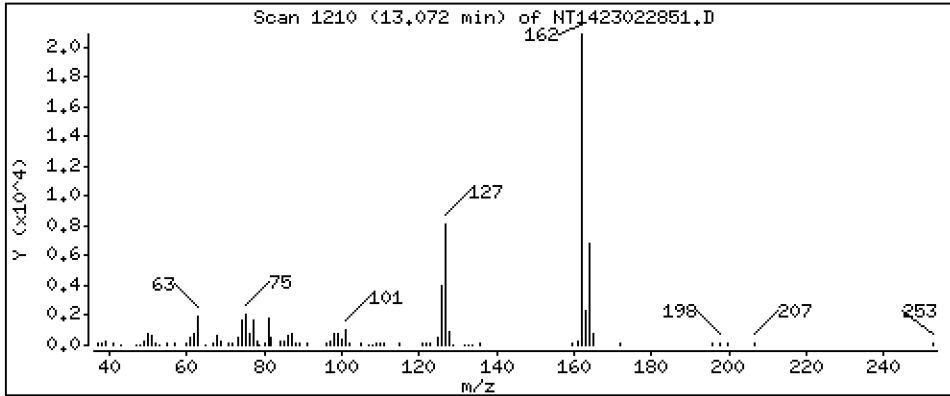
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,5208 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

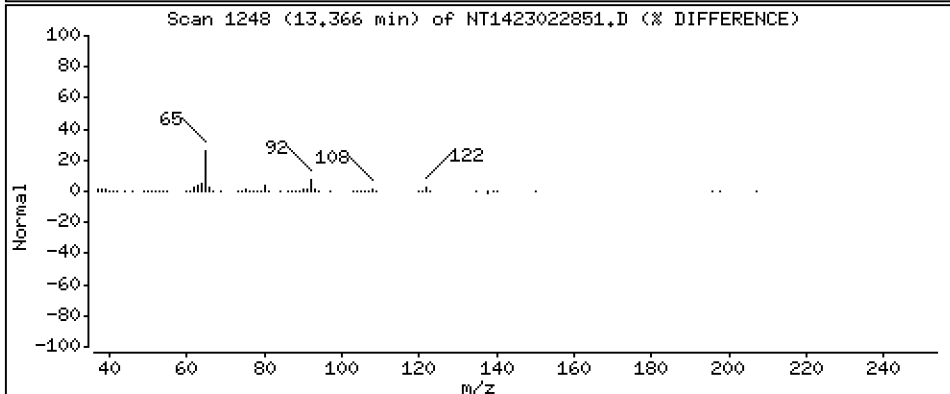
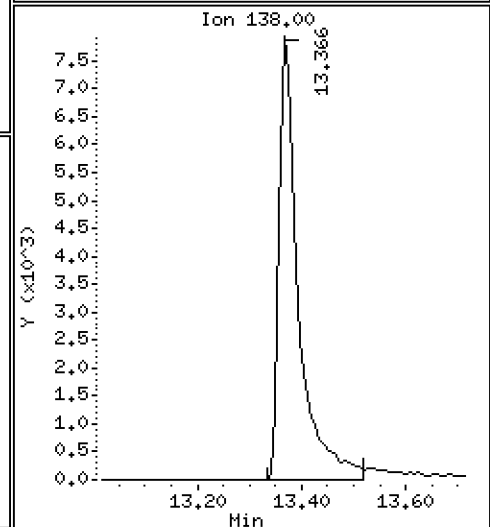
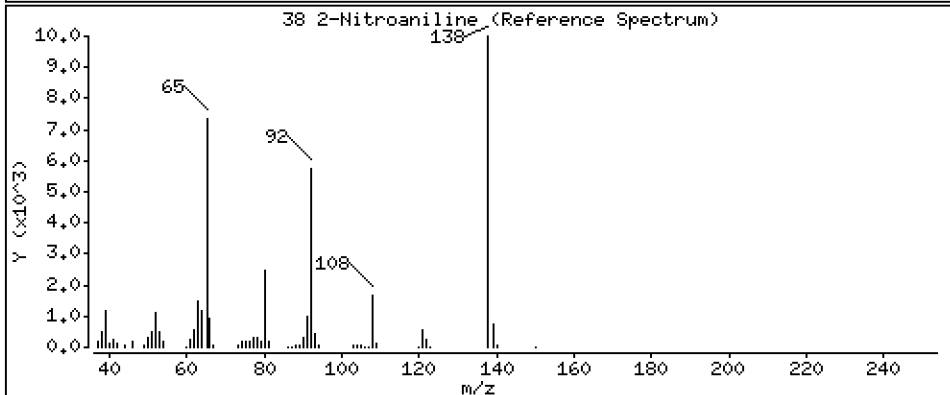
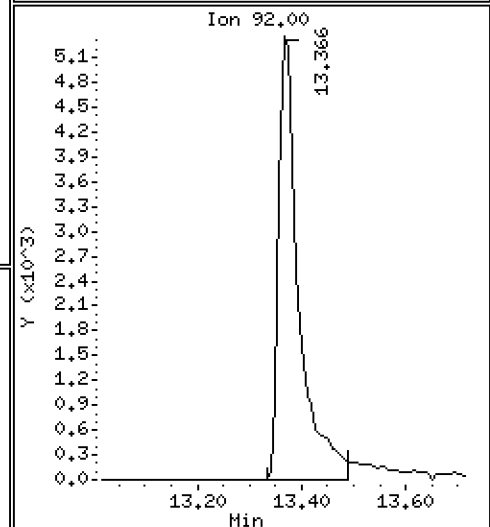
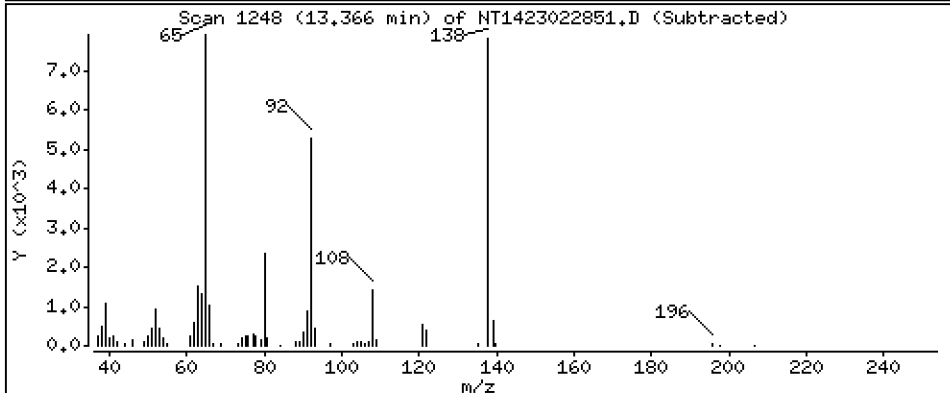
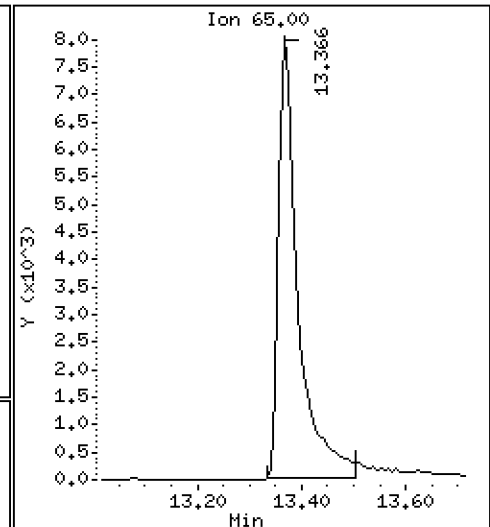
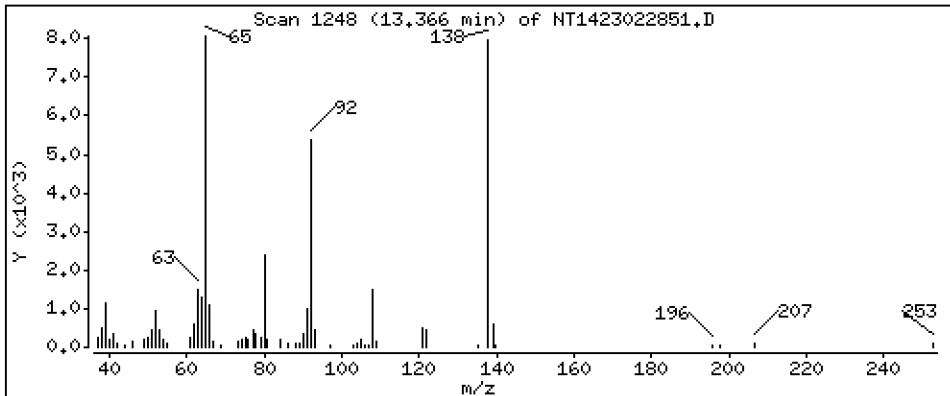
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 1,095 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

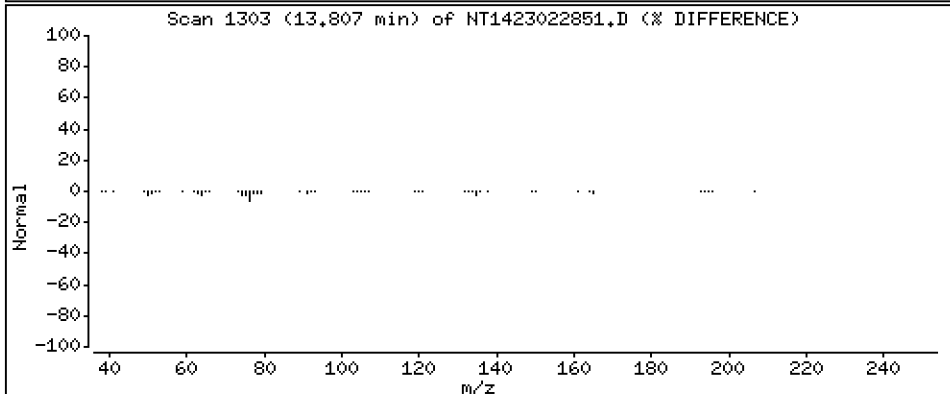
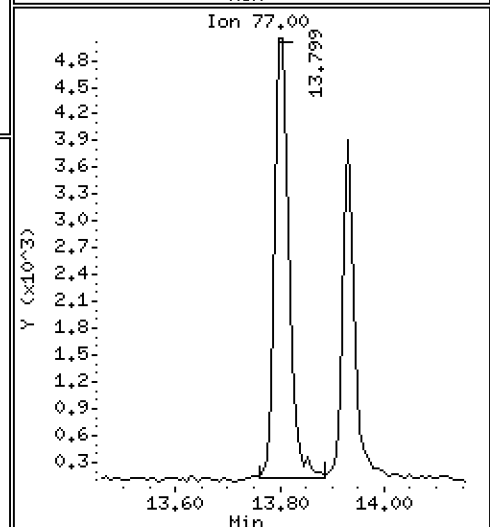
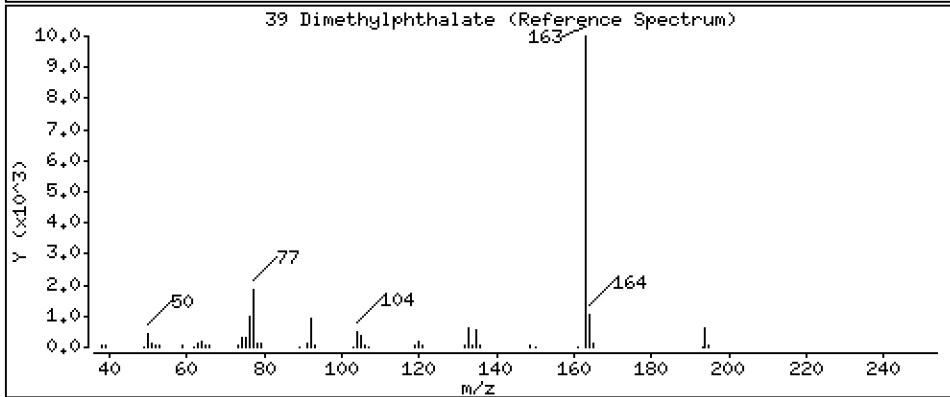
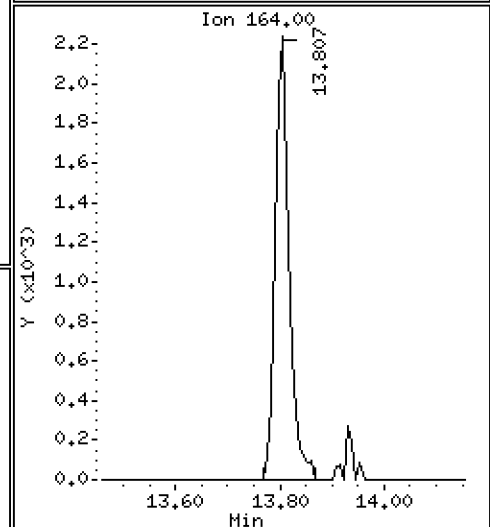
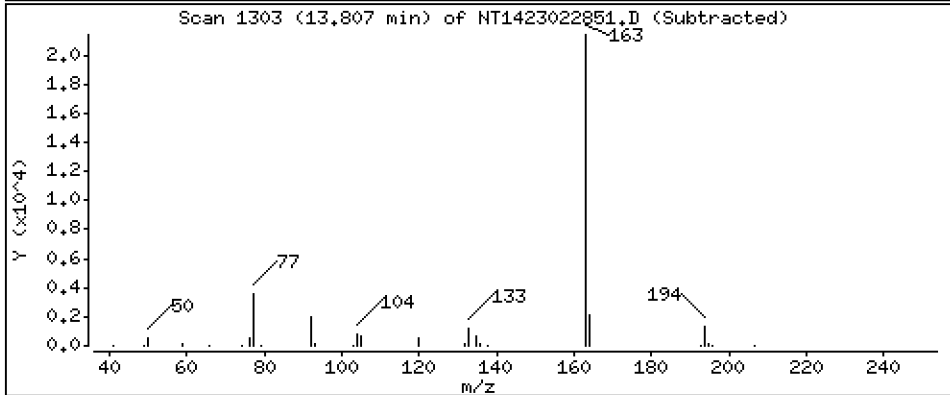
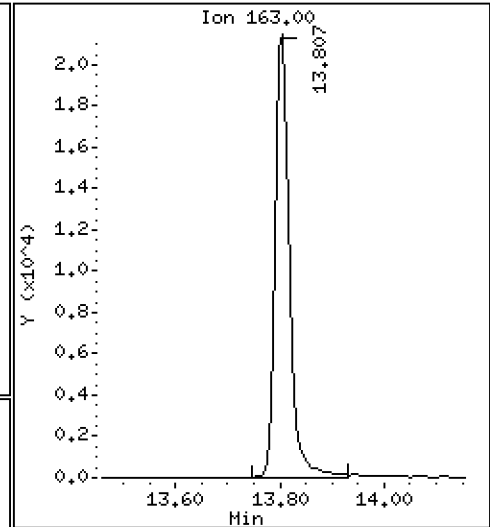
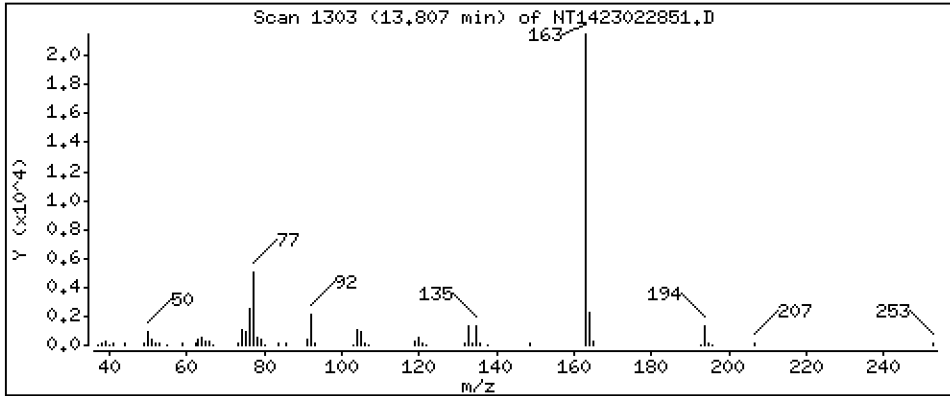
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,5564 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

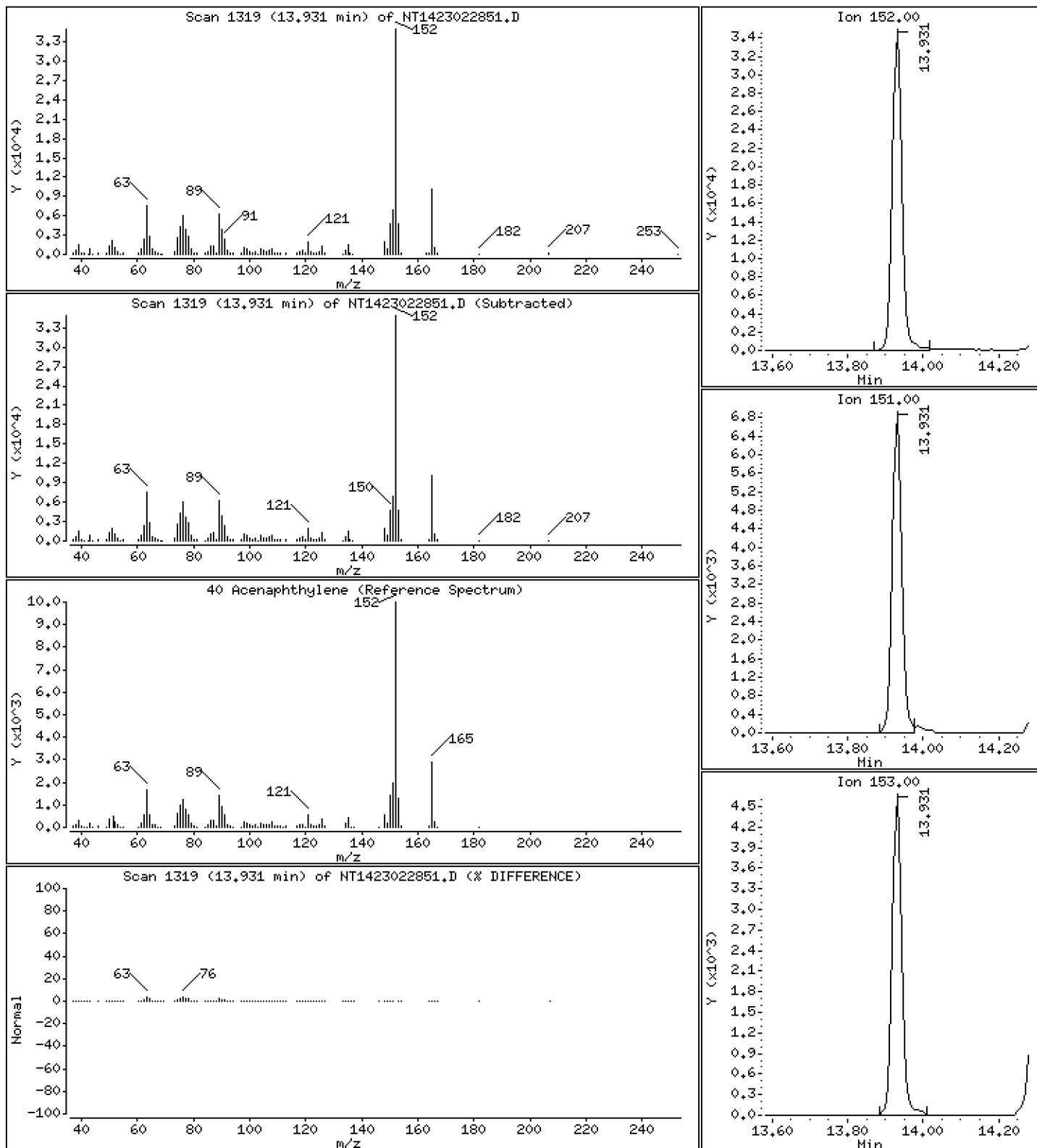
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,5661 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

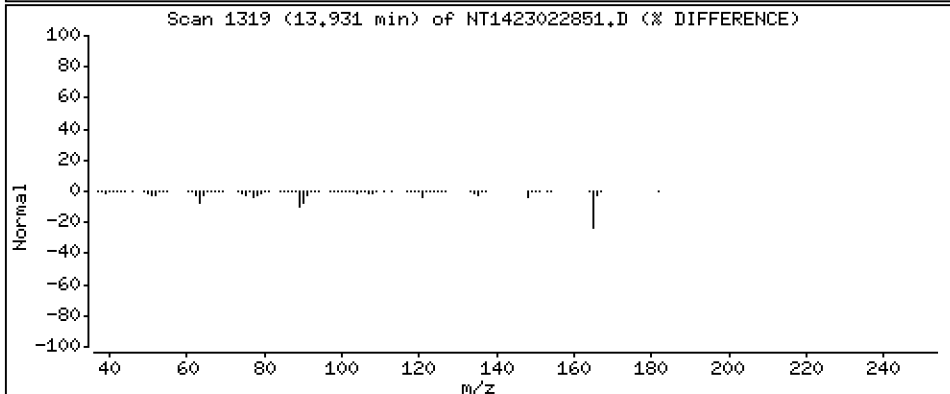
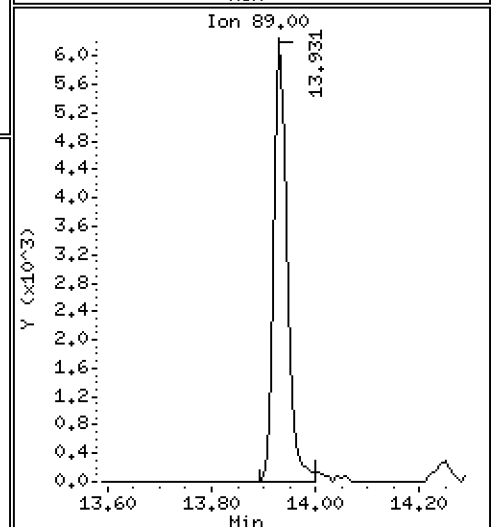
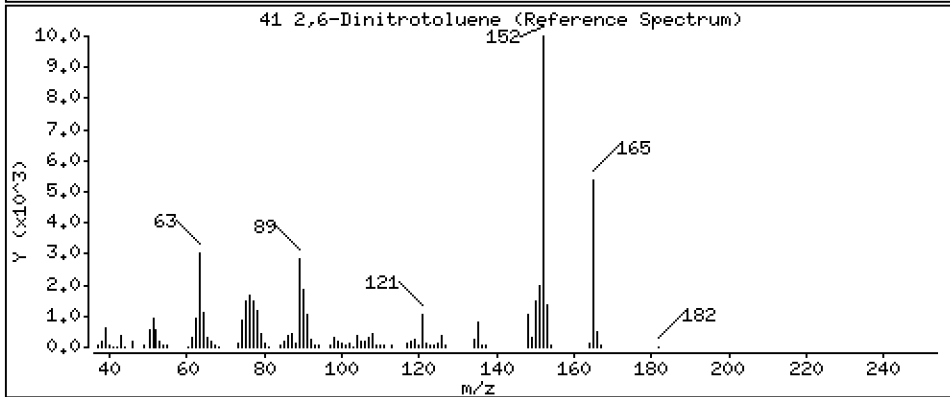
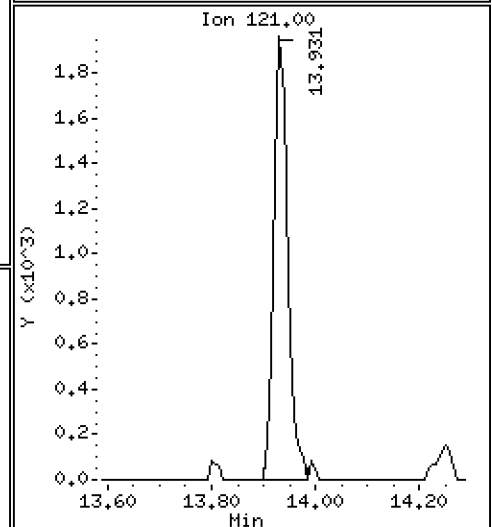
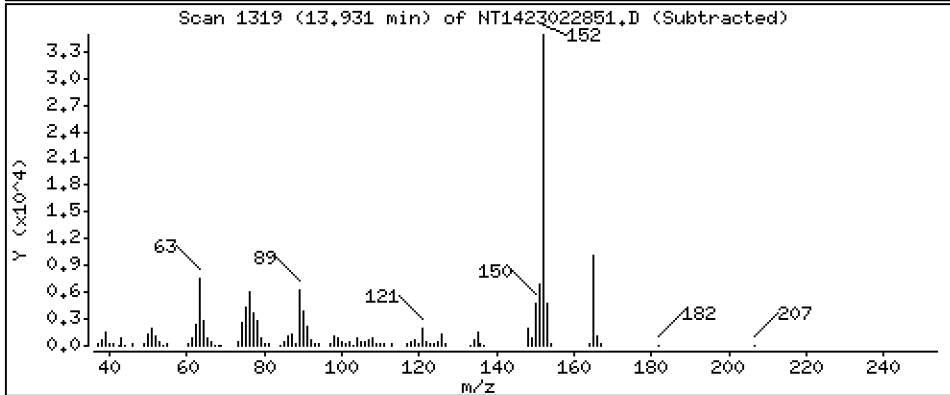
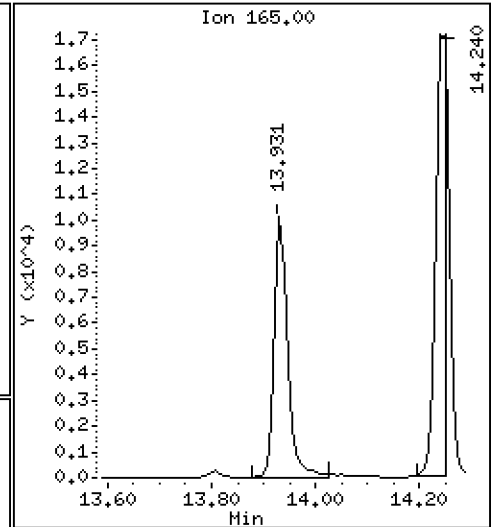
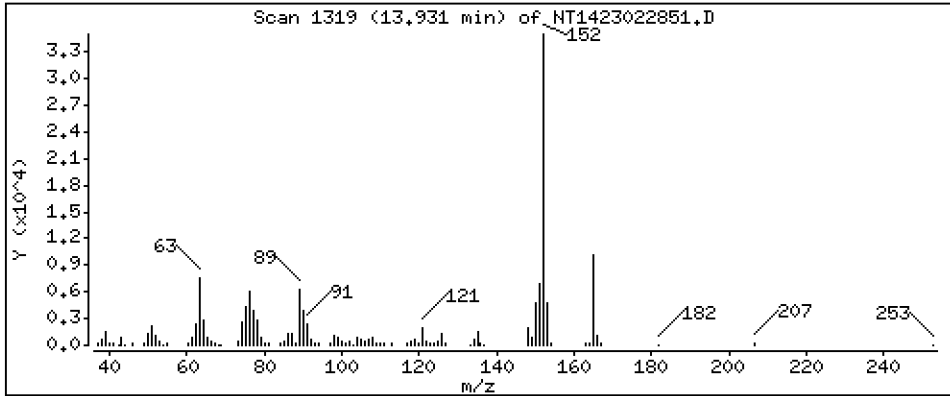
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 1.034 ug/mL





Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

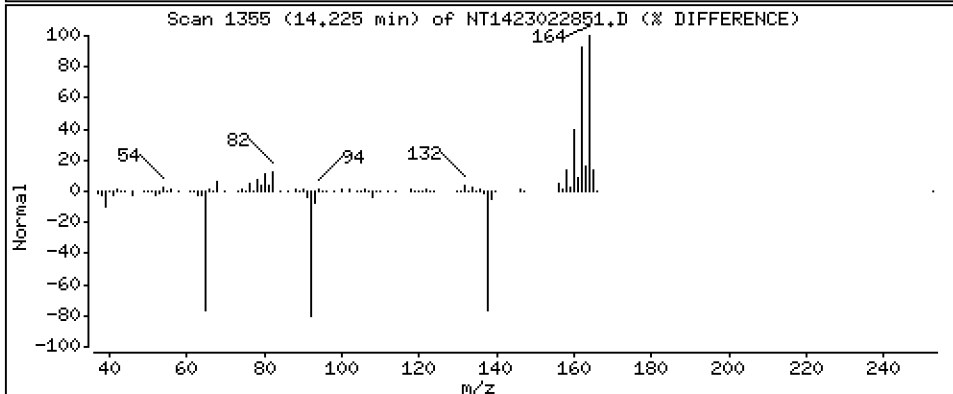
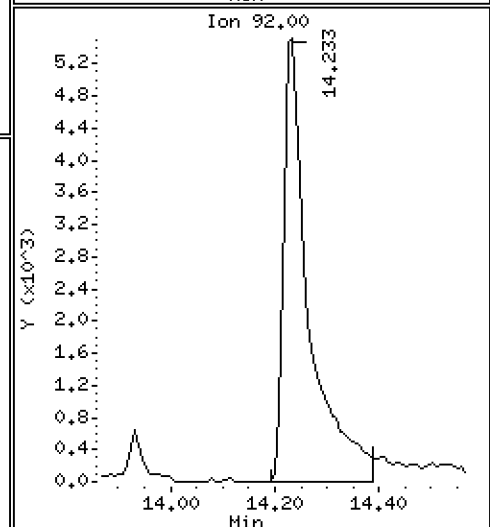
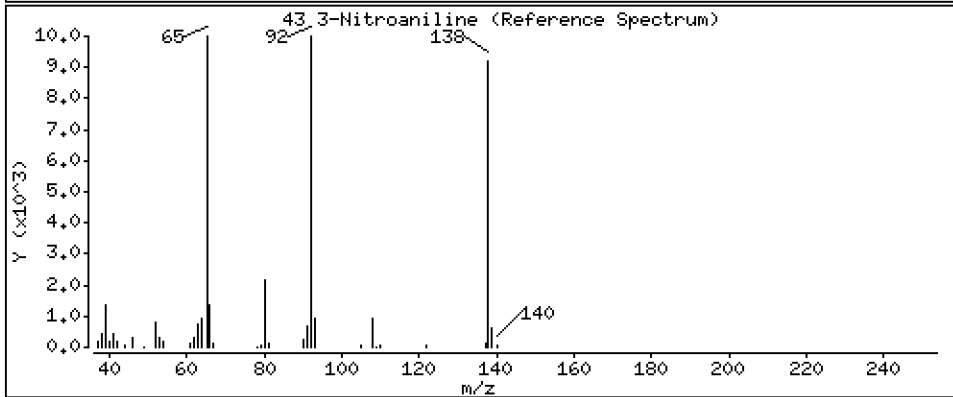
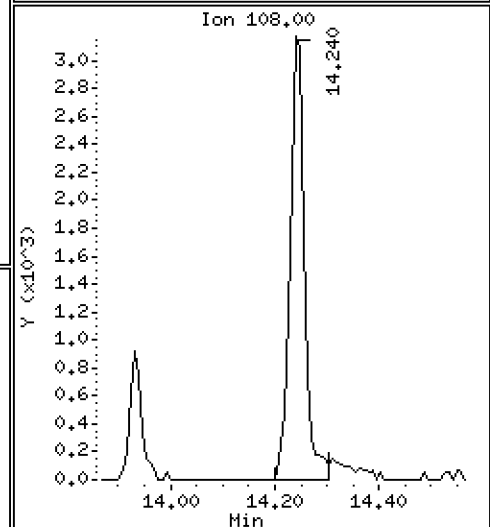
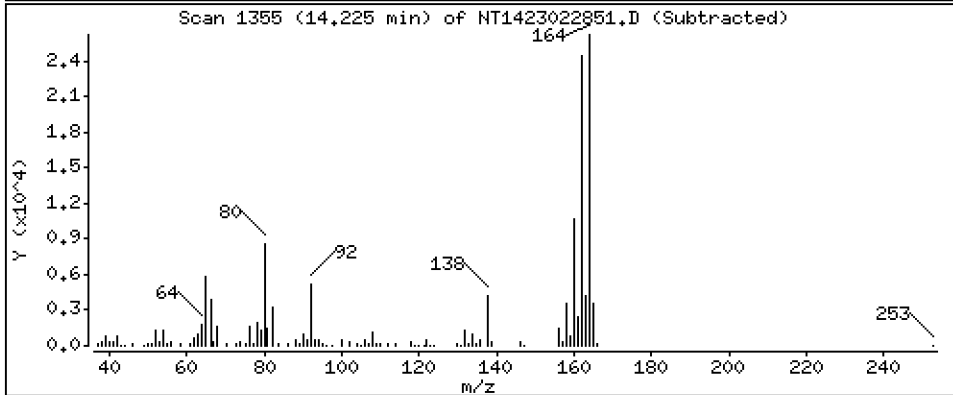
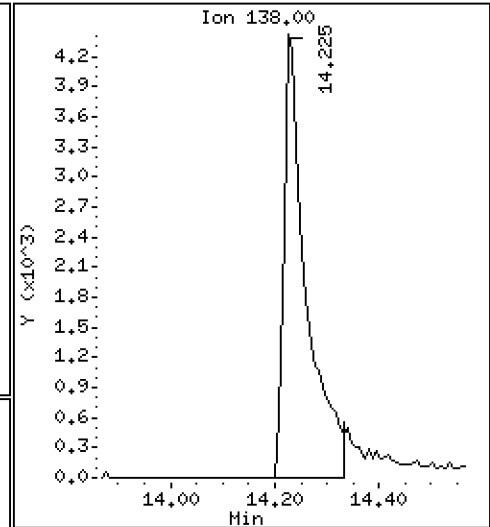
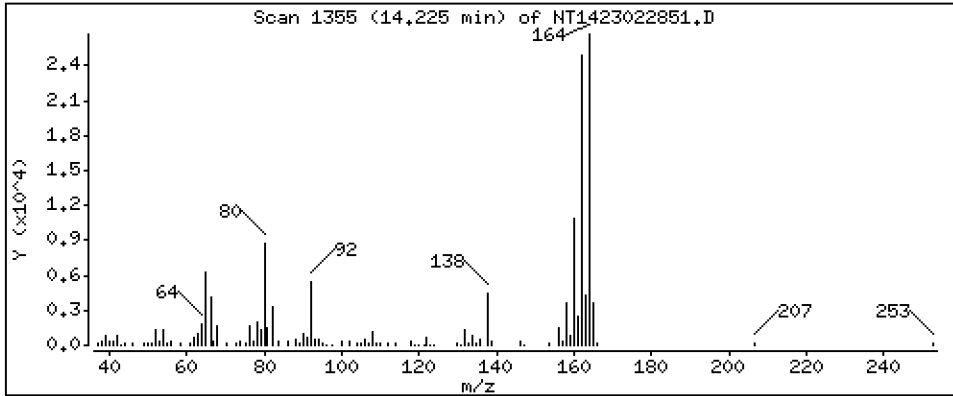
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,7771 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

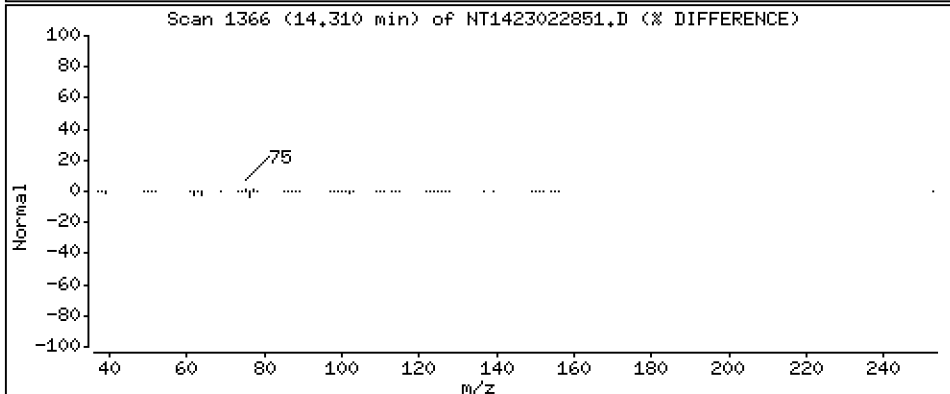
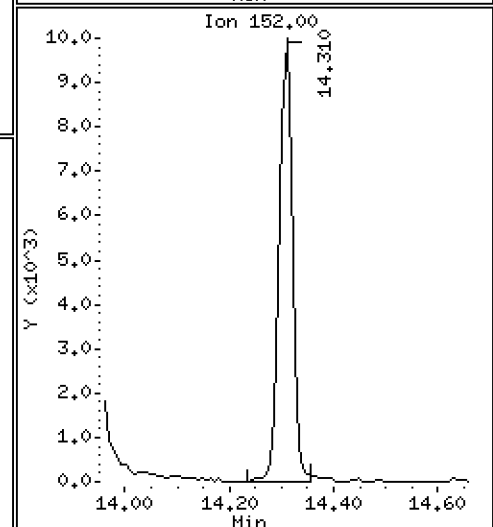
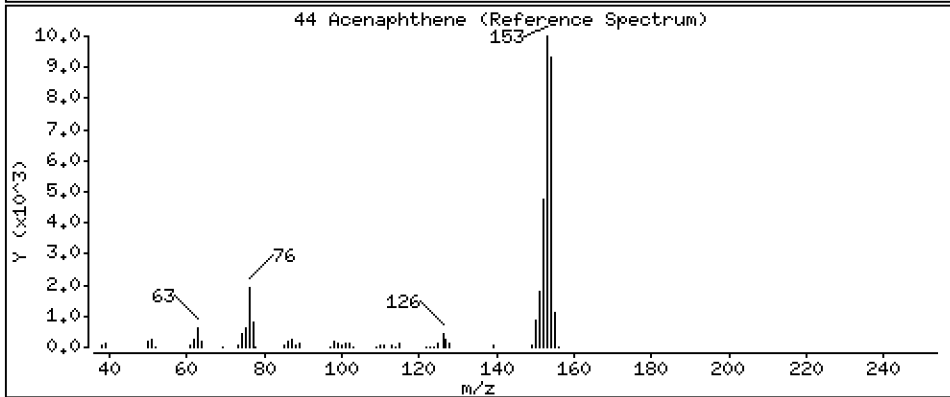
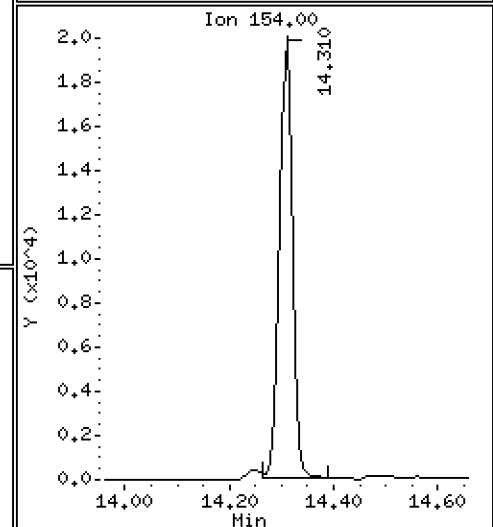
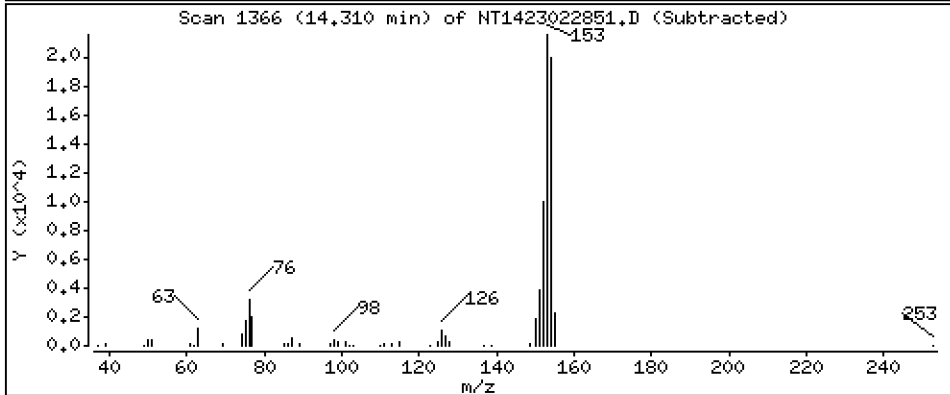
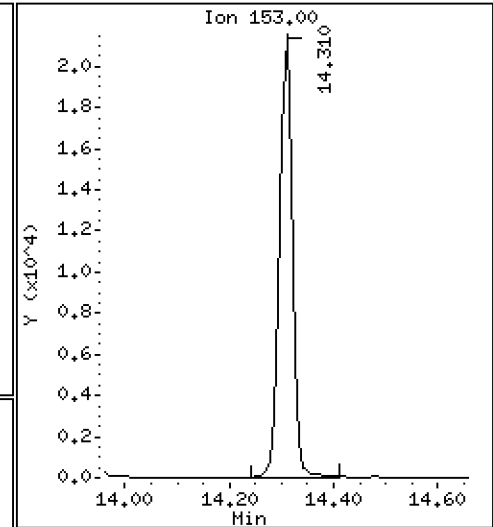
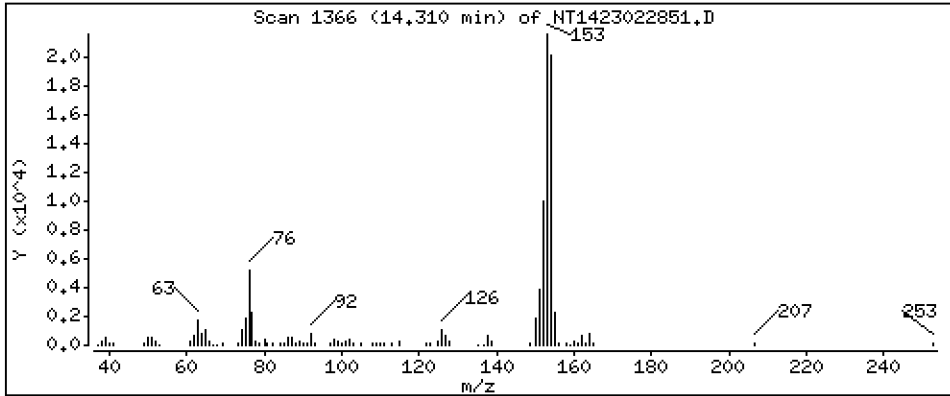
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,5300 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

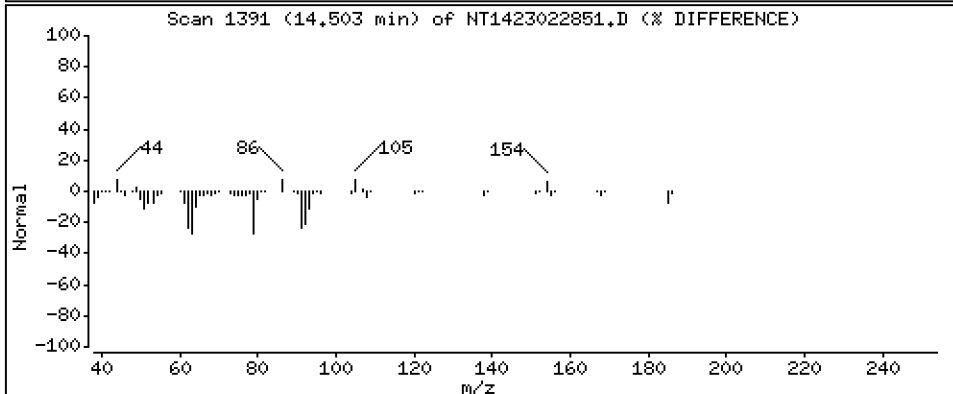
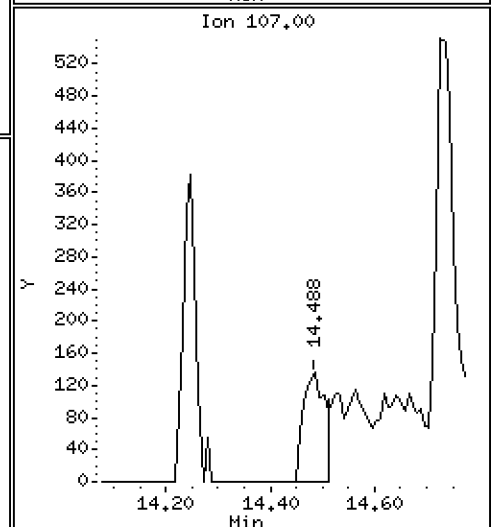
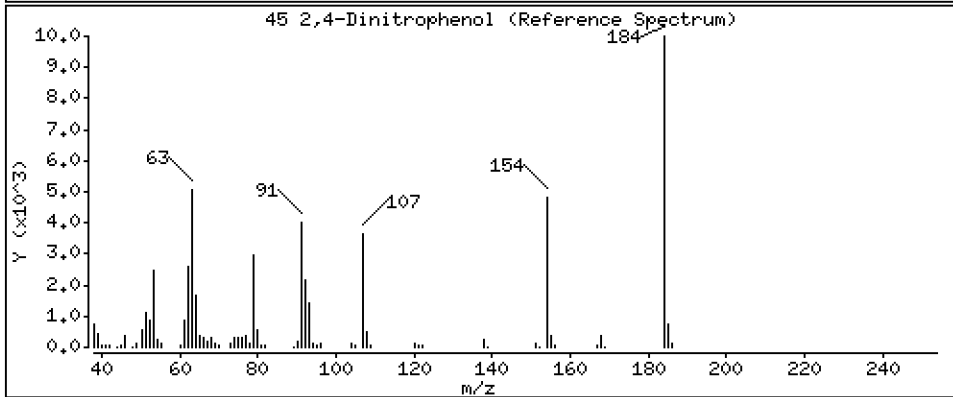
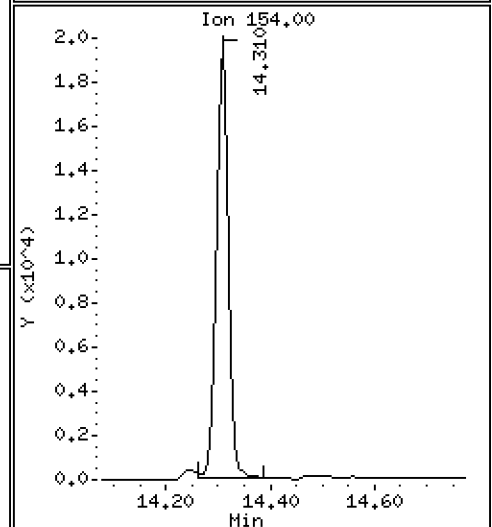
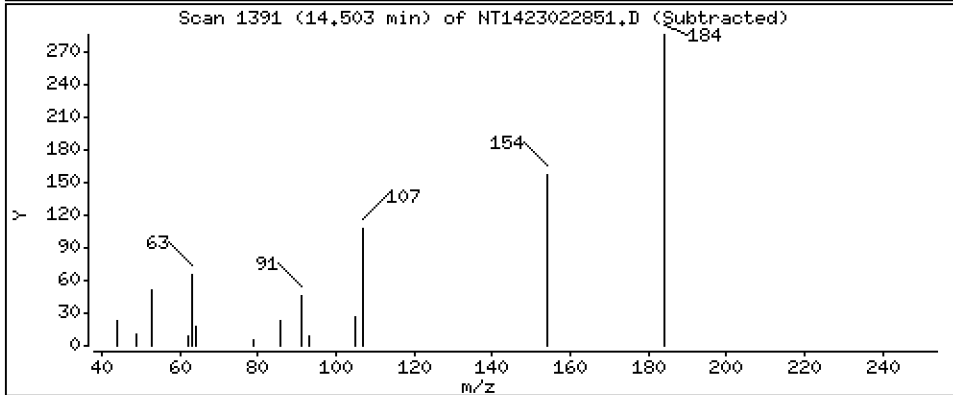
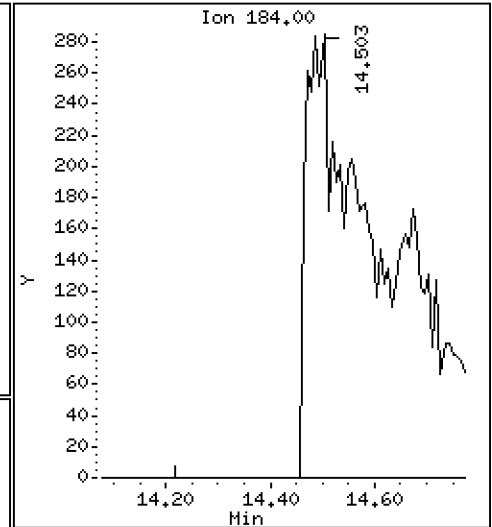
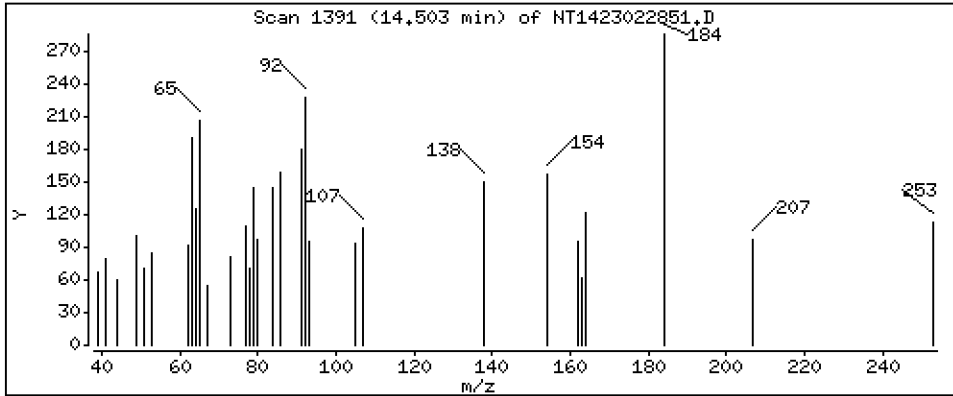
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,3632 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

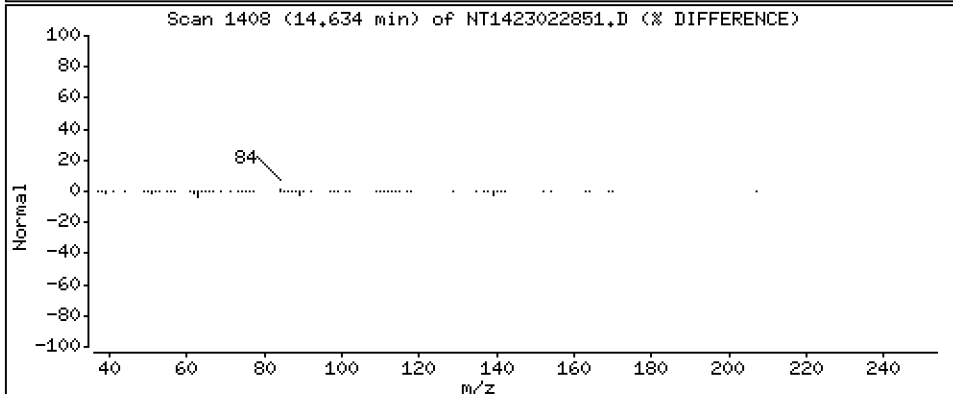
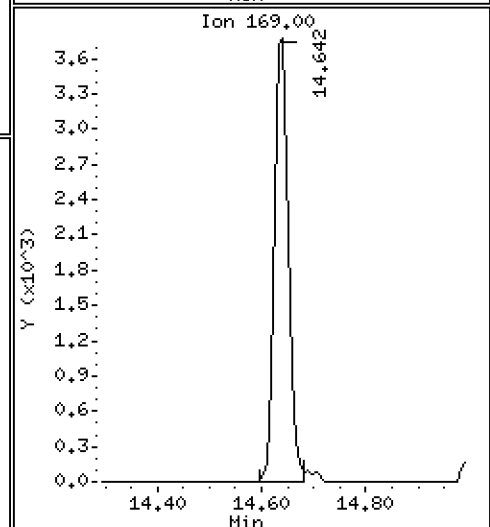
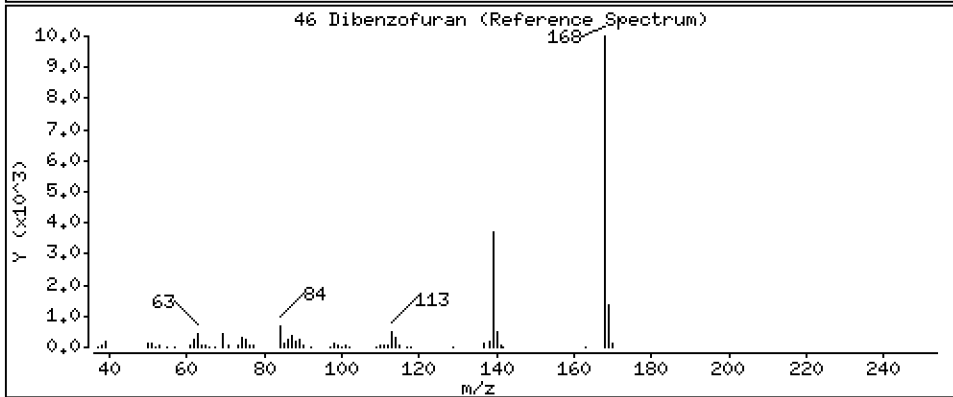
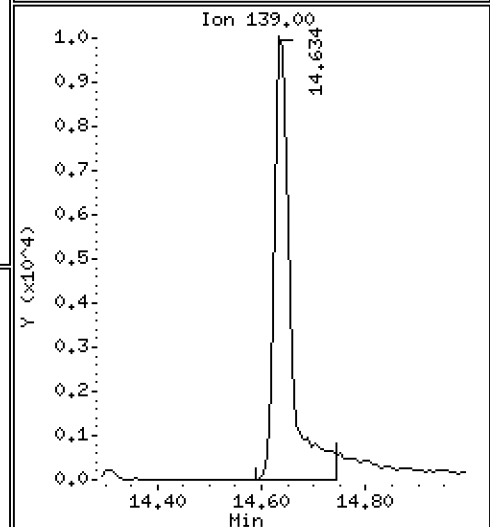
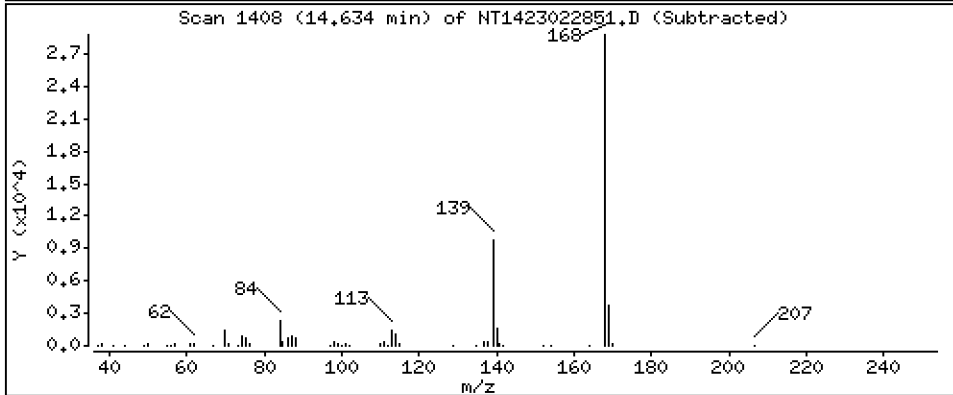
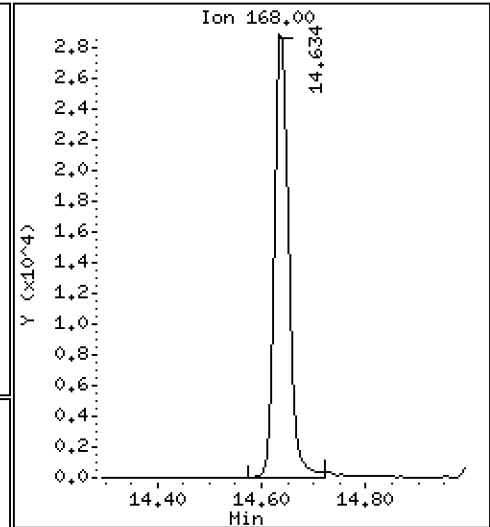
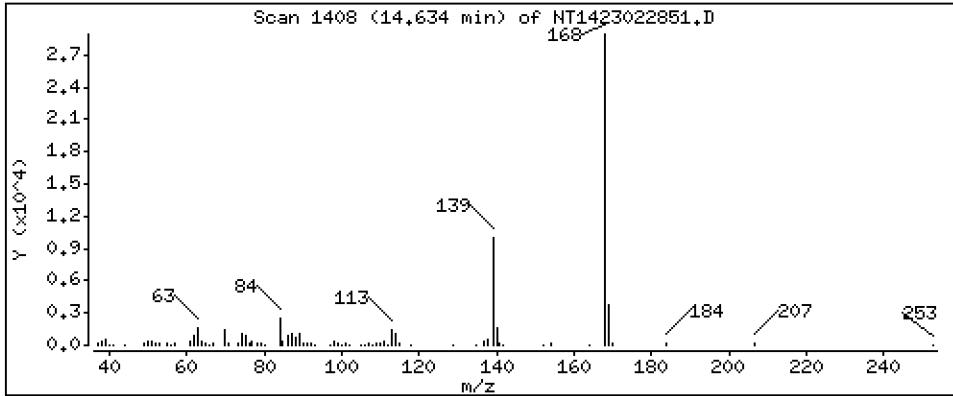
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,5032 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

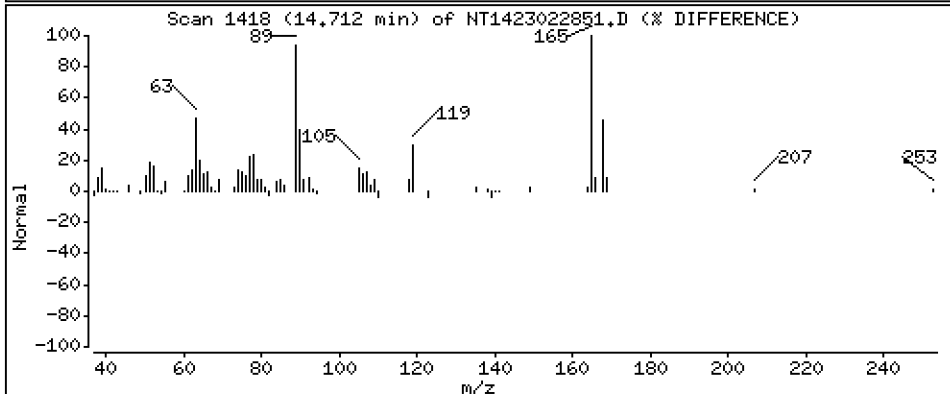
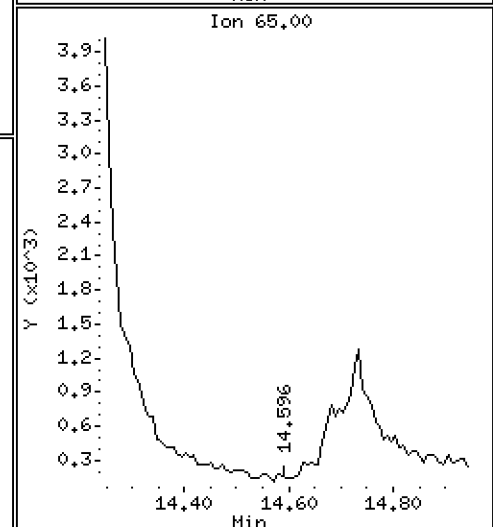
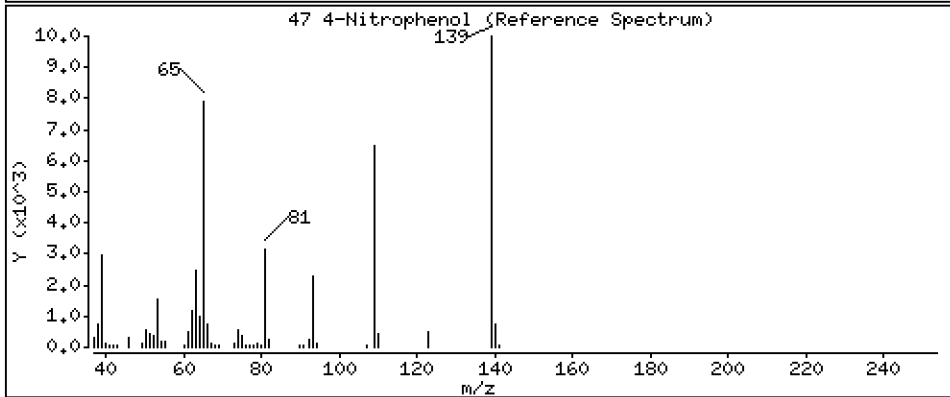
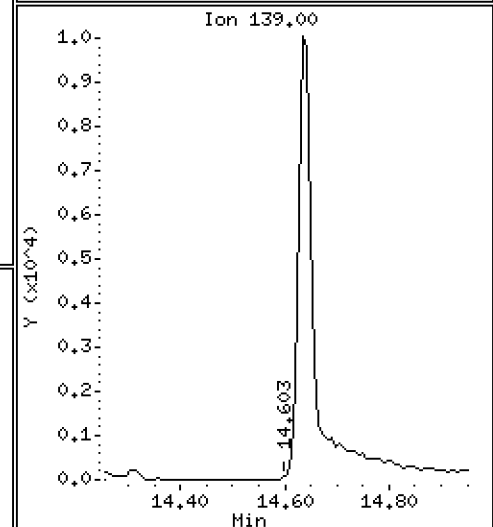
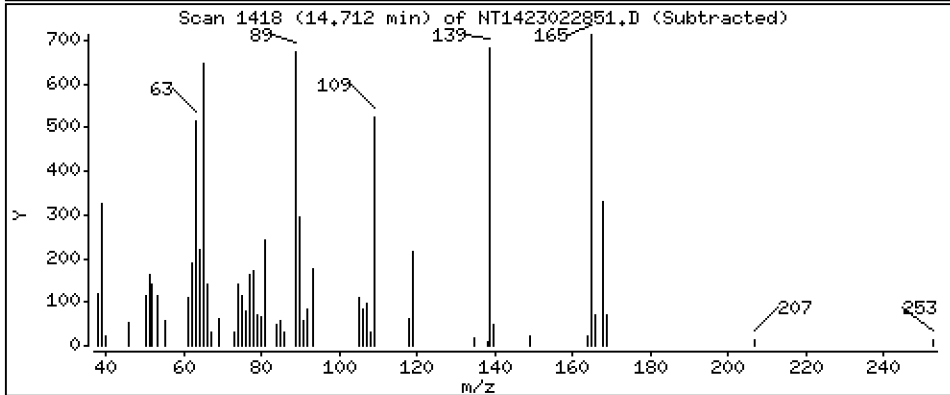
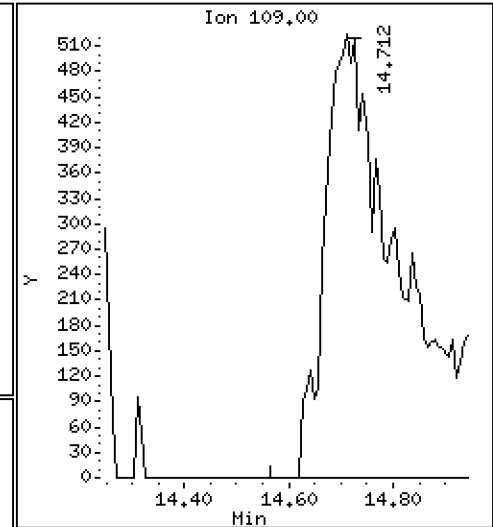
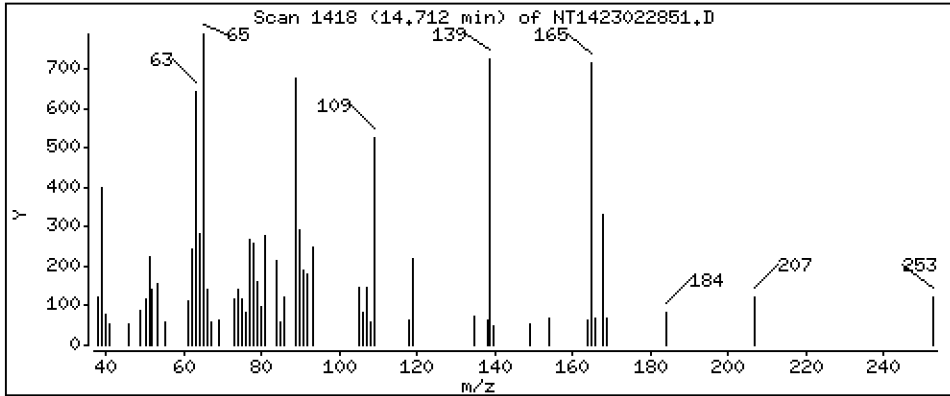
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,8288 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

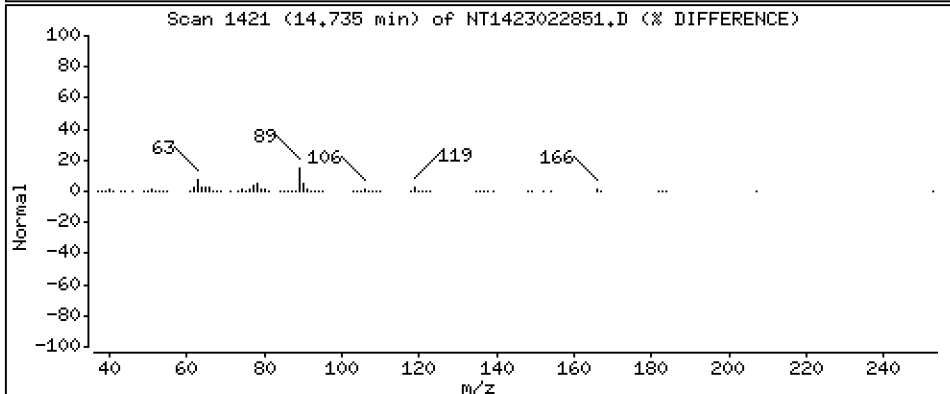
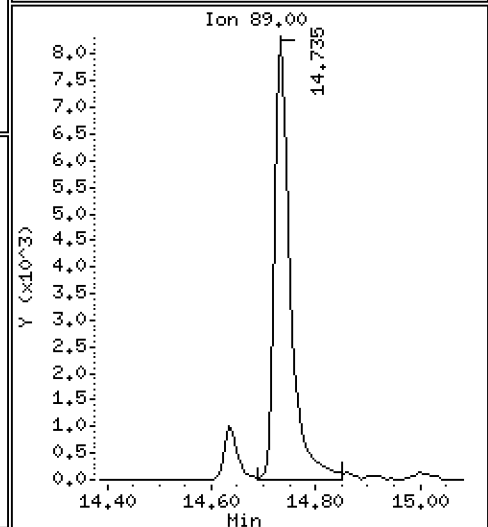
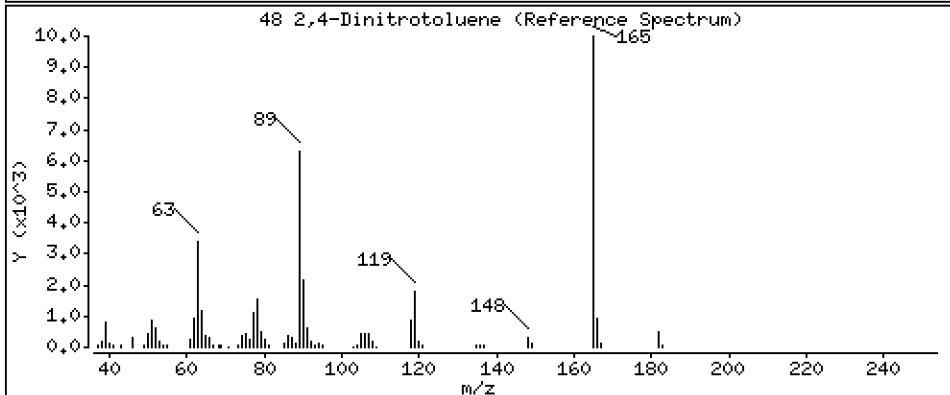
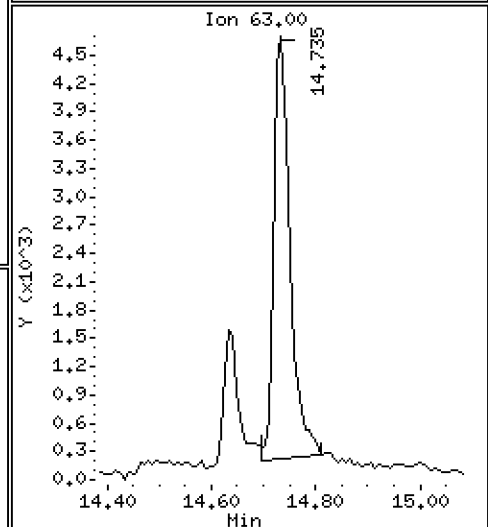
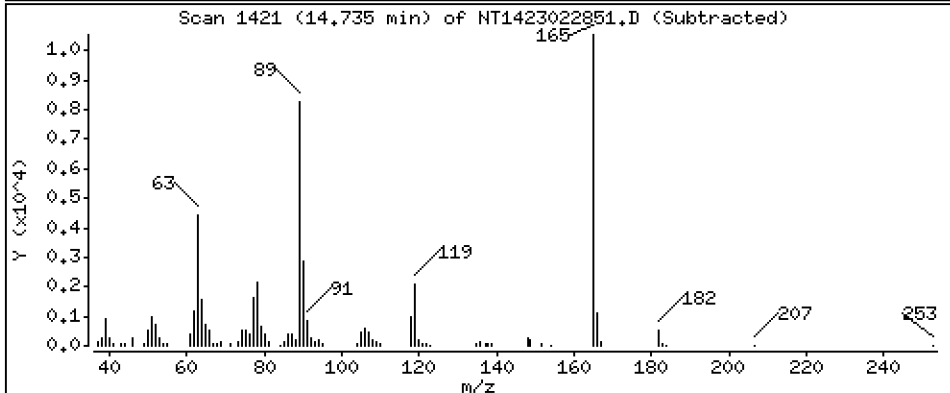
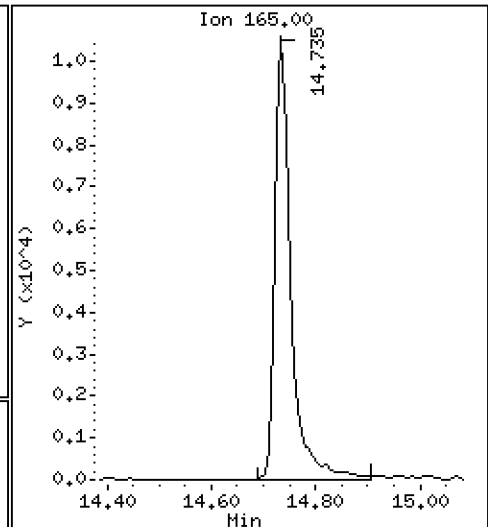
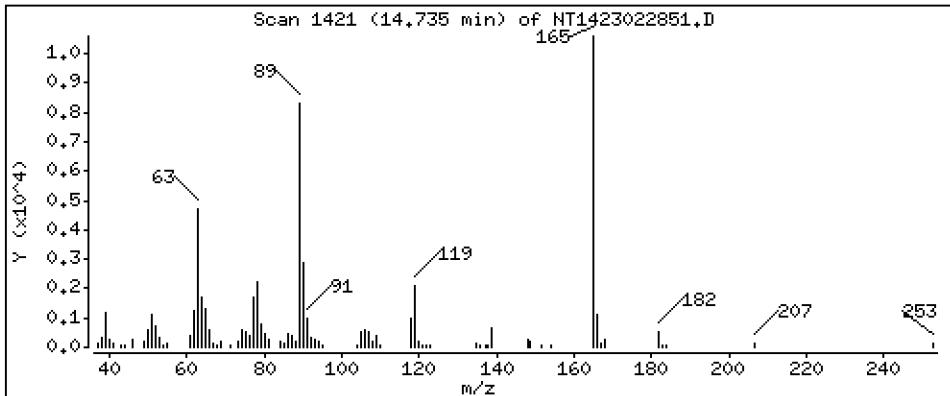
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.9033 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

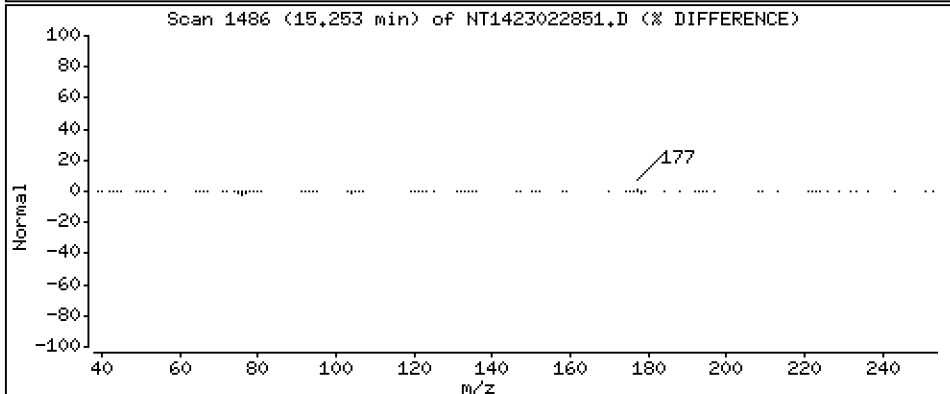
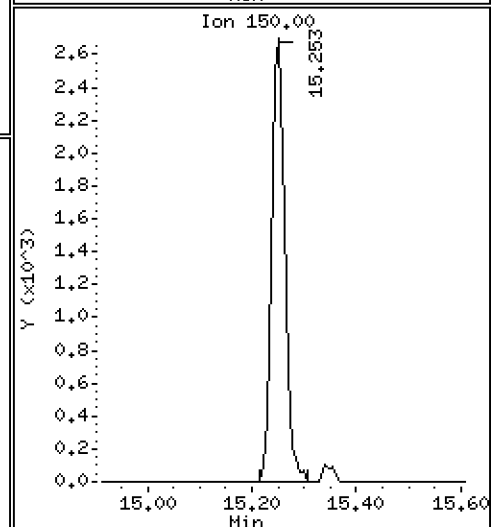
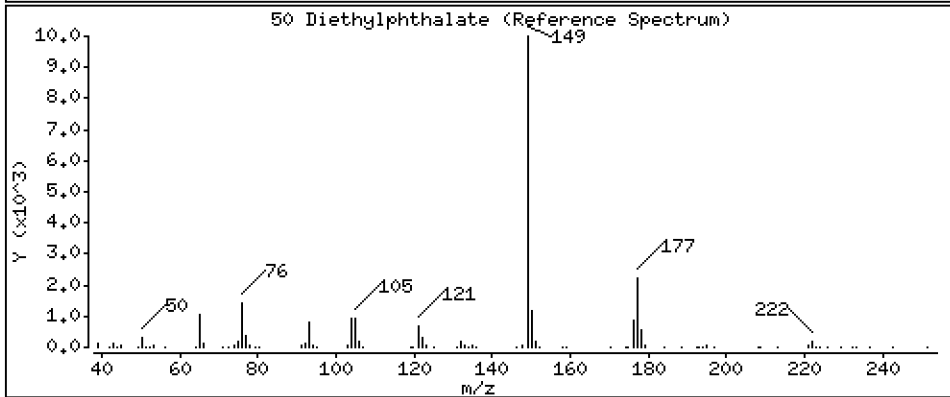
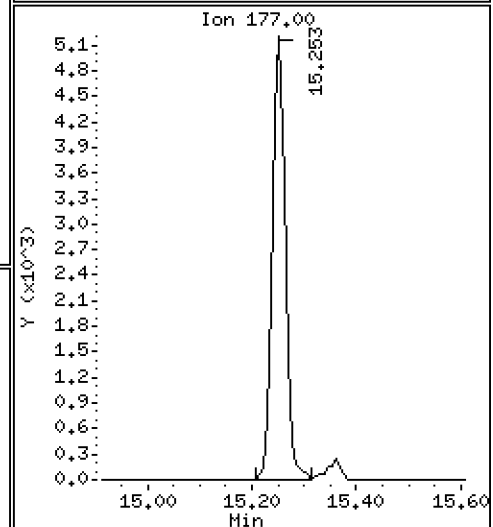
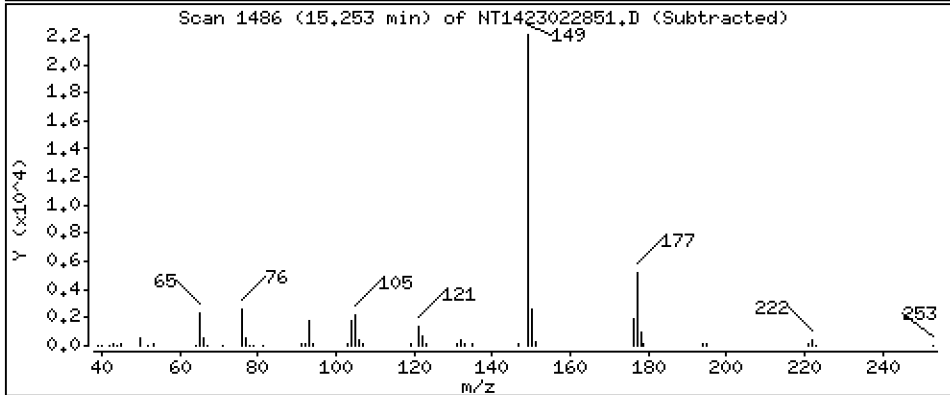
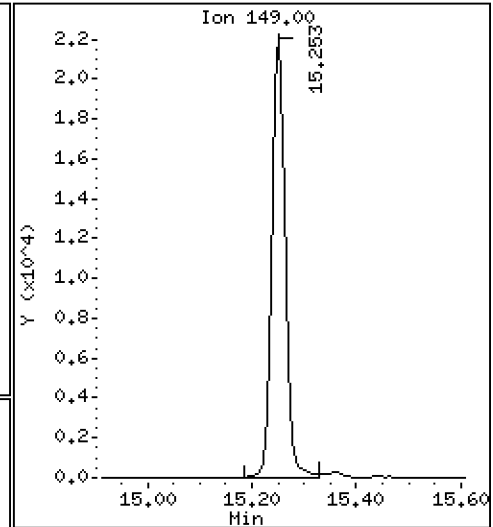
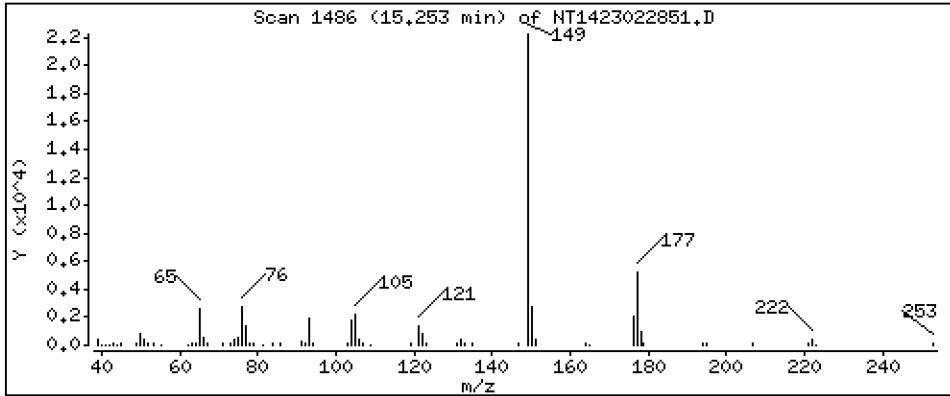
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,5625 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

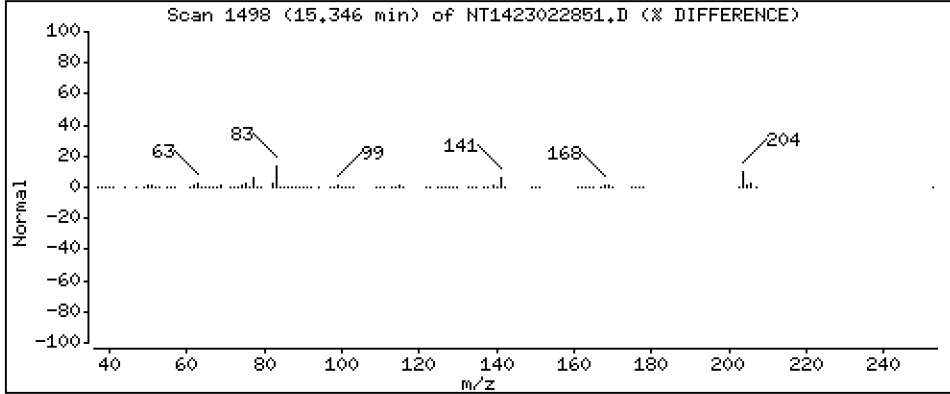
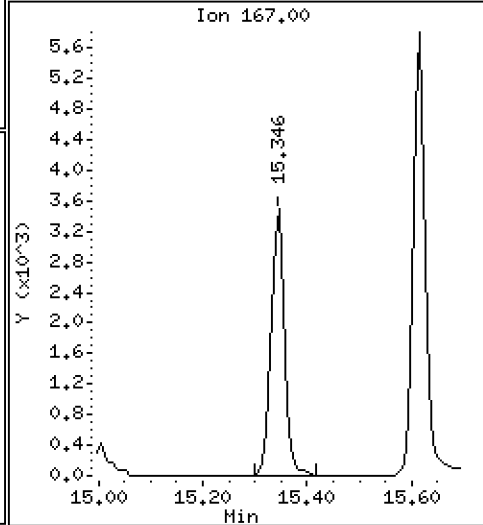
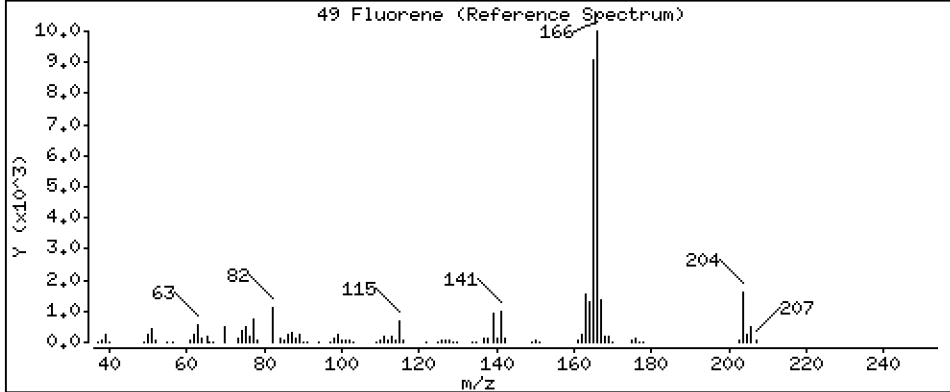
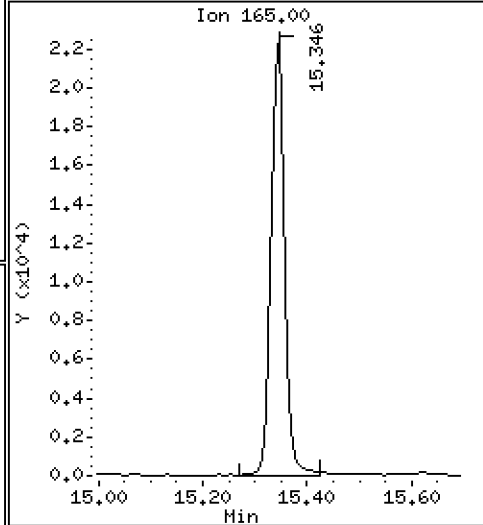
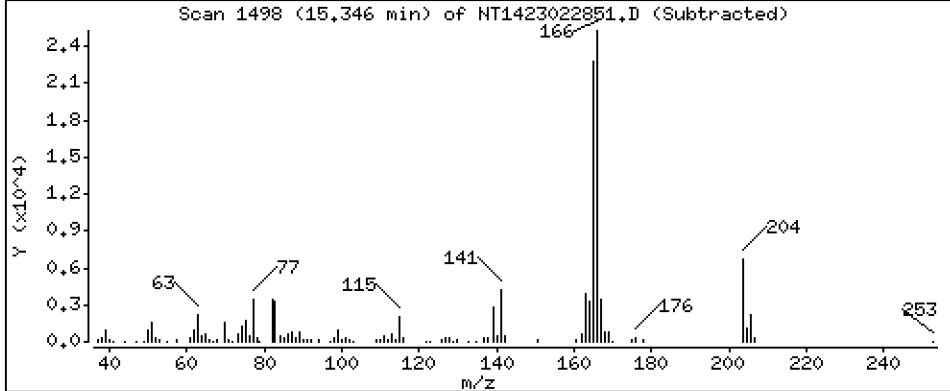
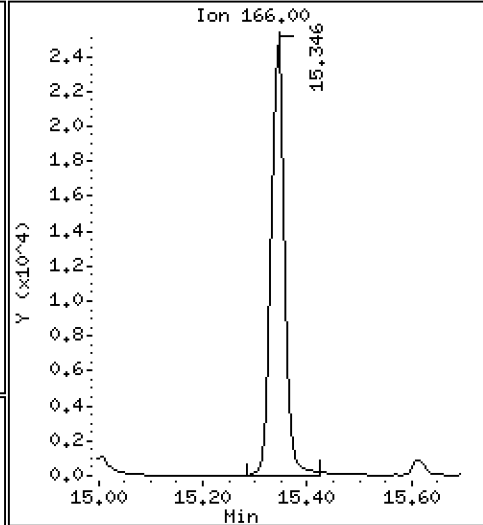
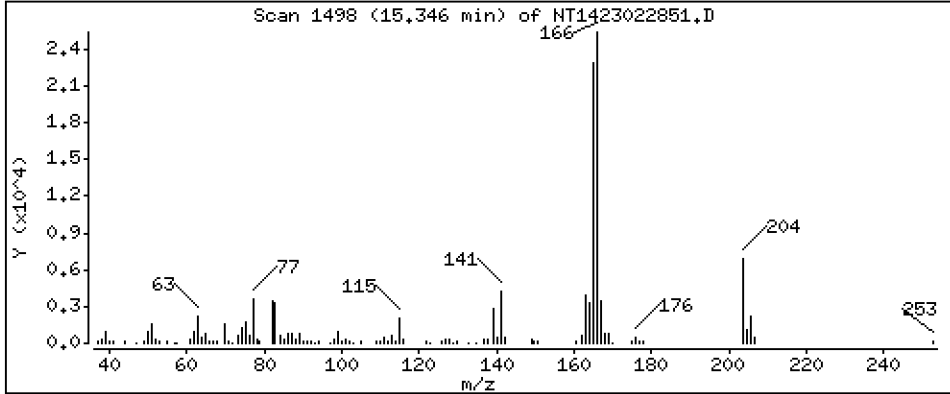
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,5425 ug/mL





Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

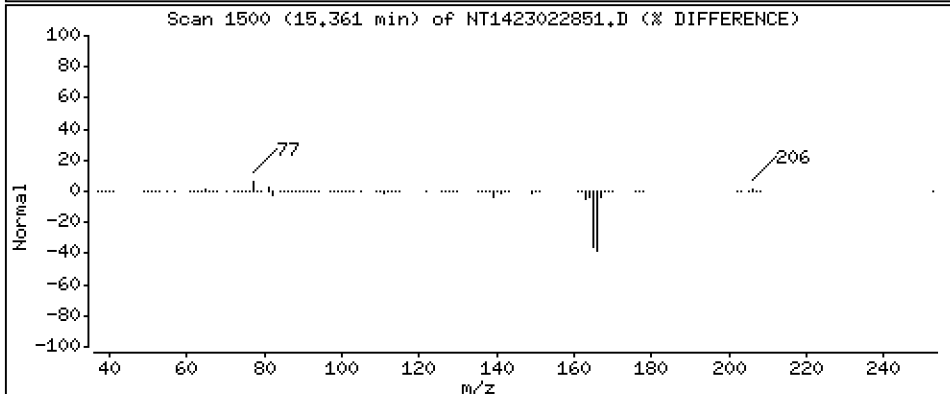
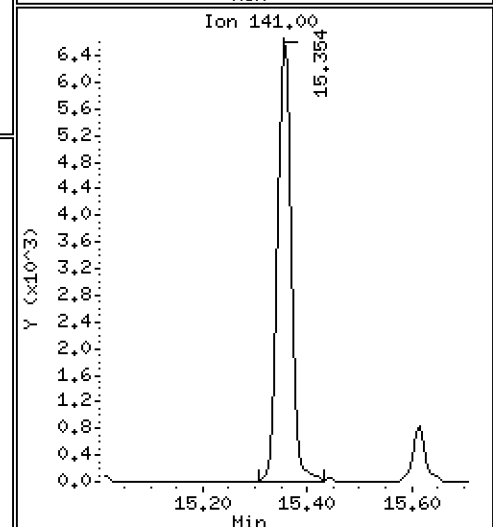
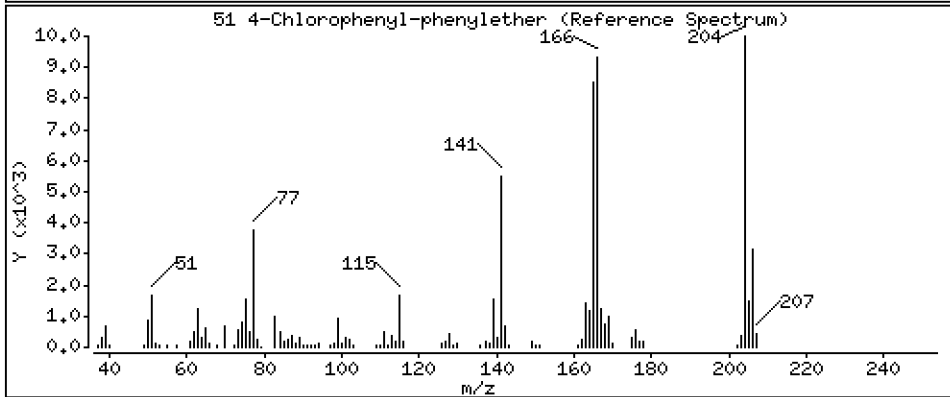
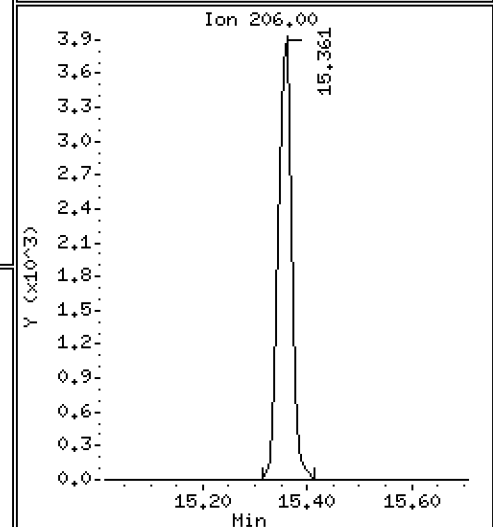
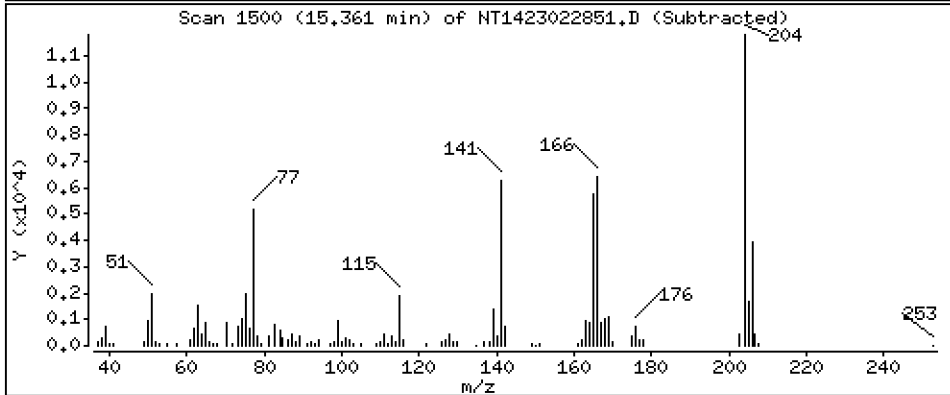
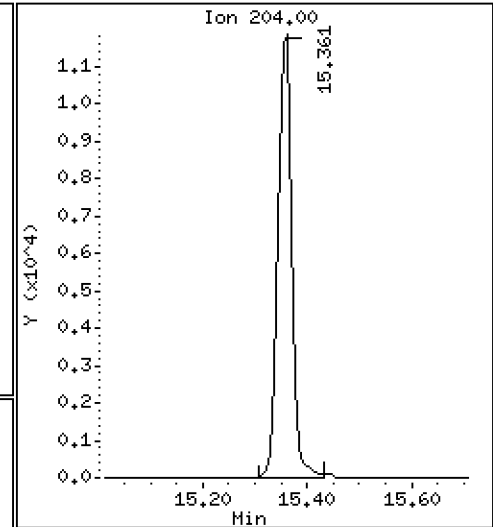
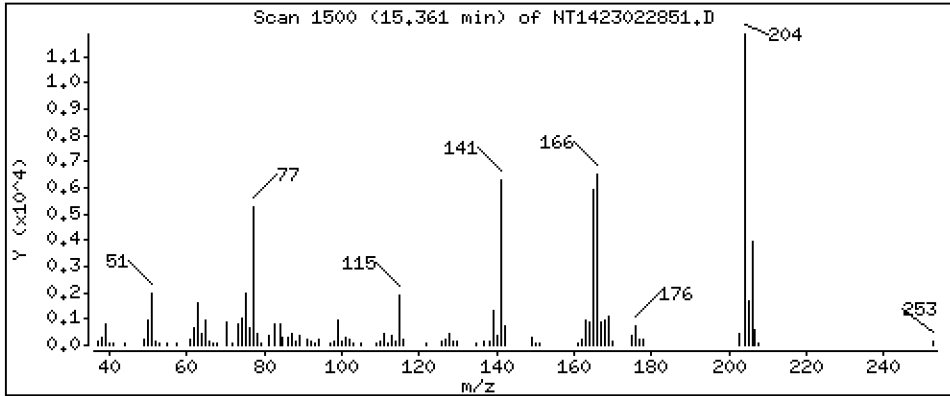
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,5008 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

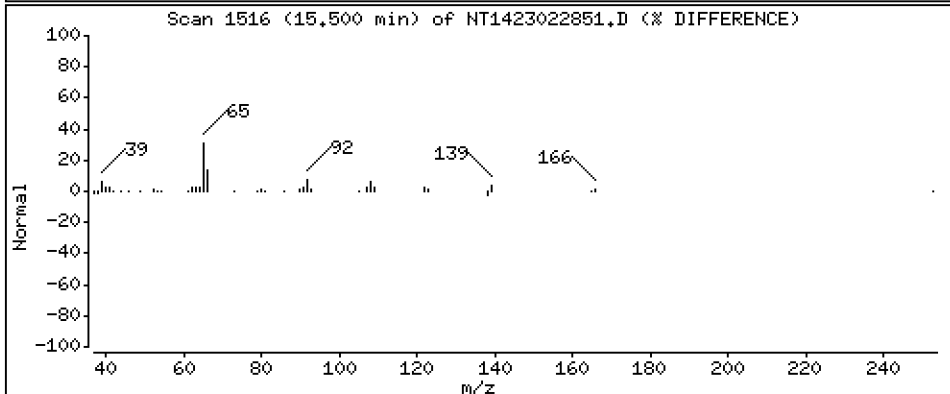
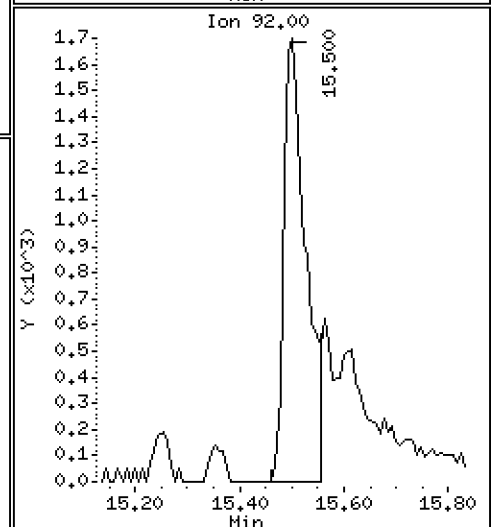
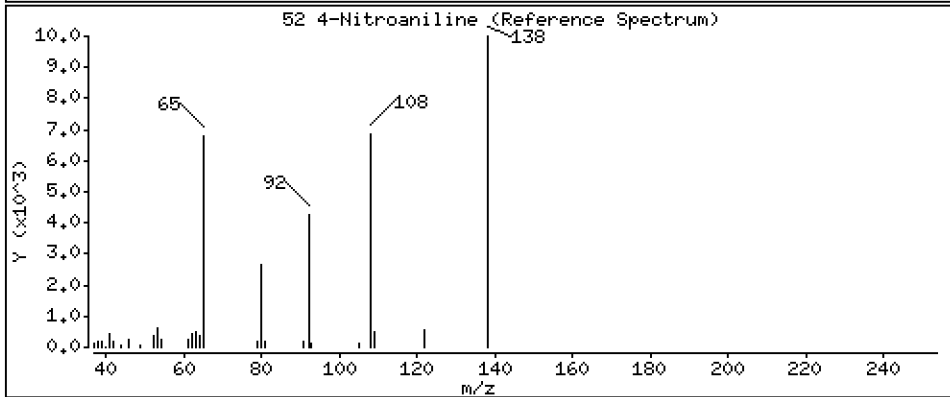
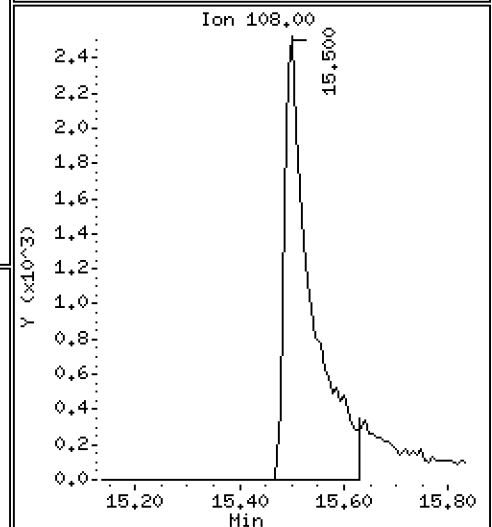
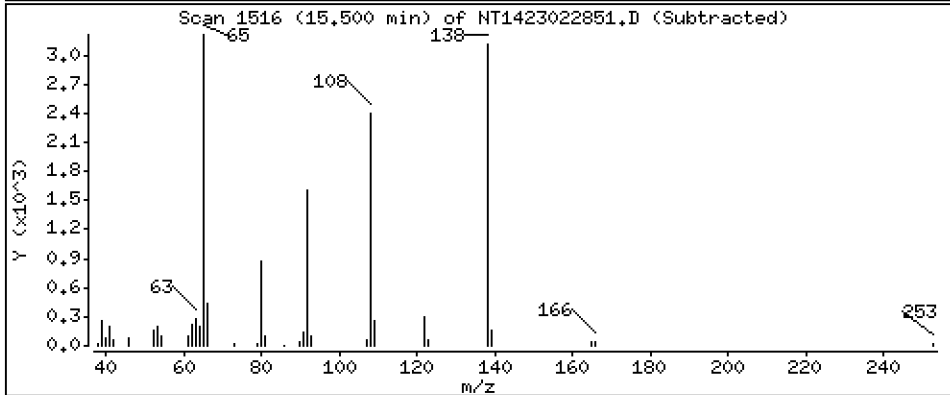
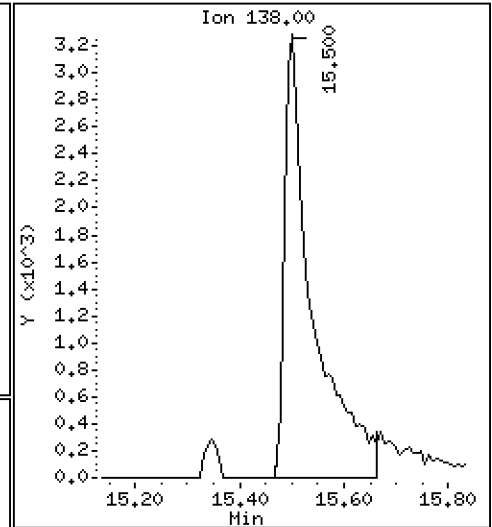
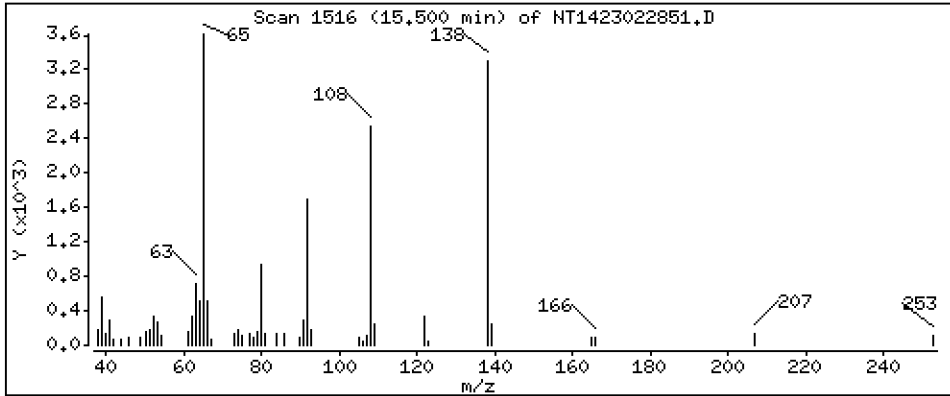
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,7373 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

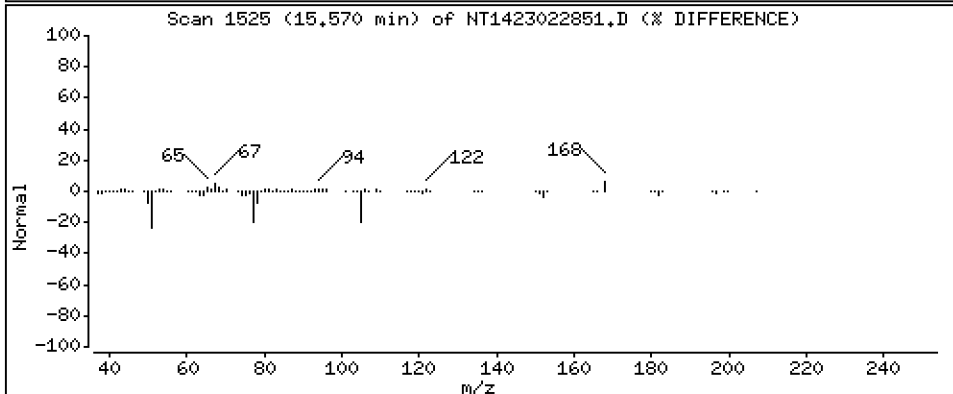
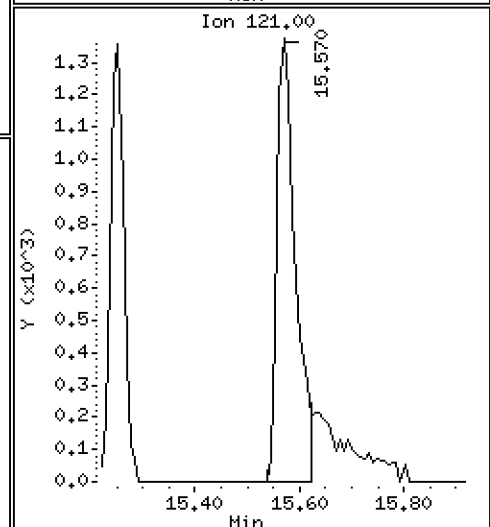
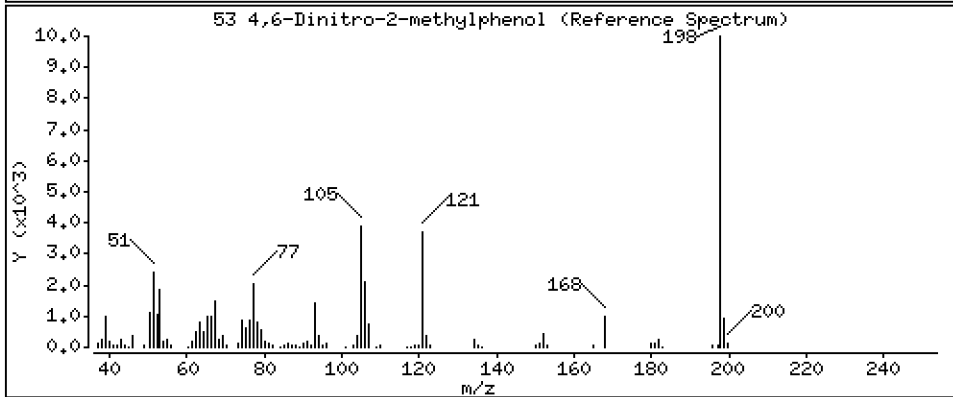
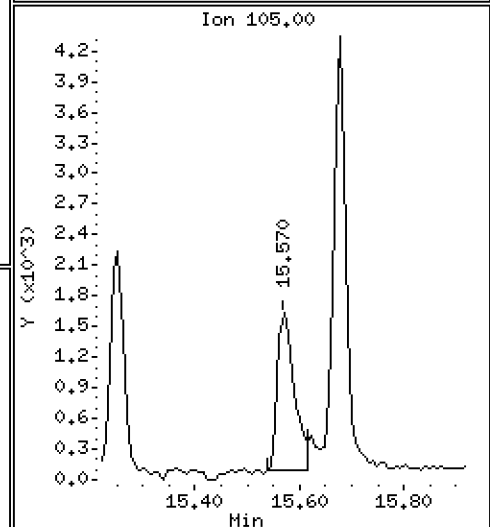
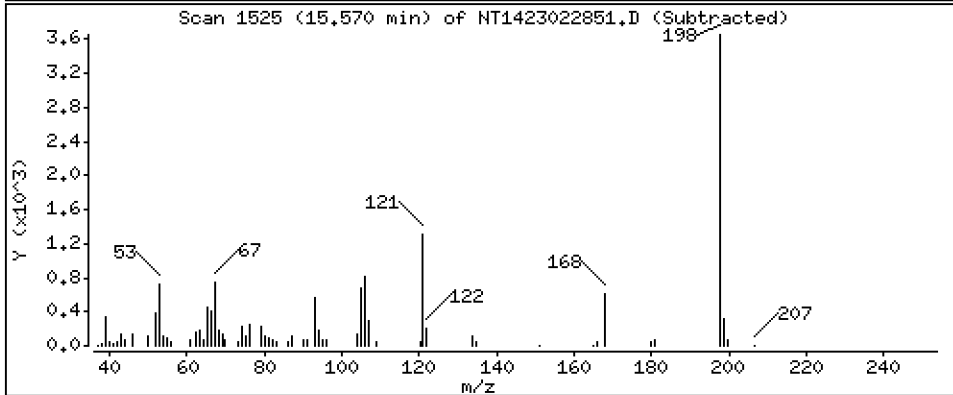
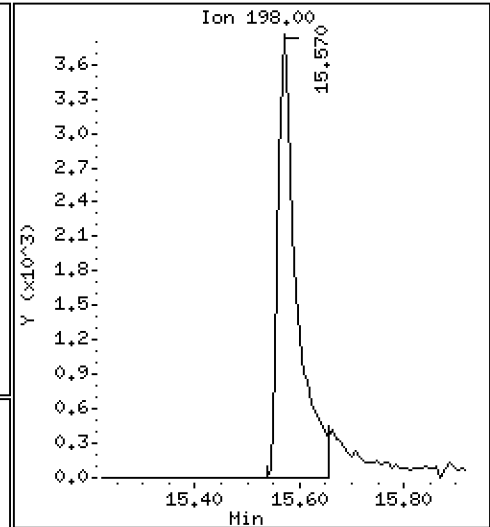
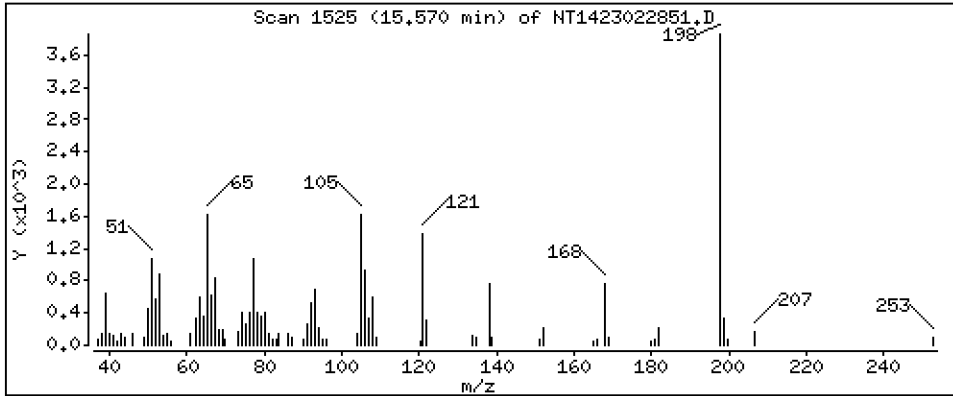
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,6805 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

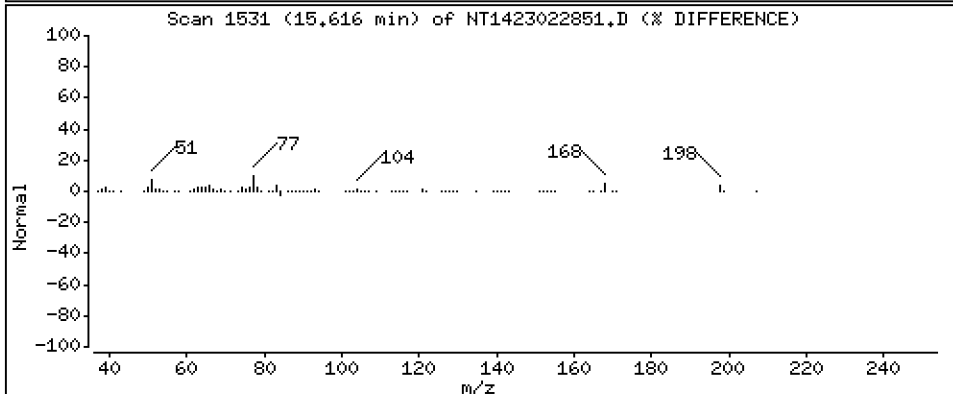
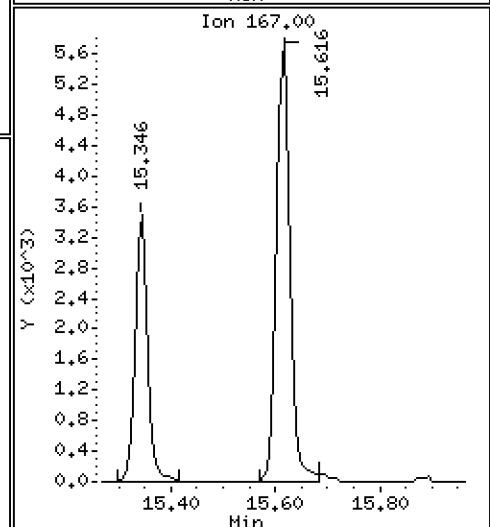
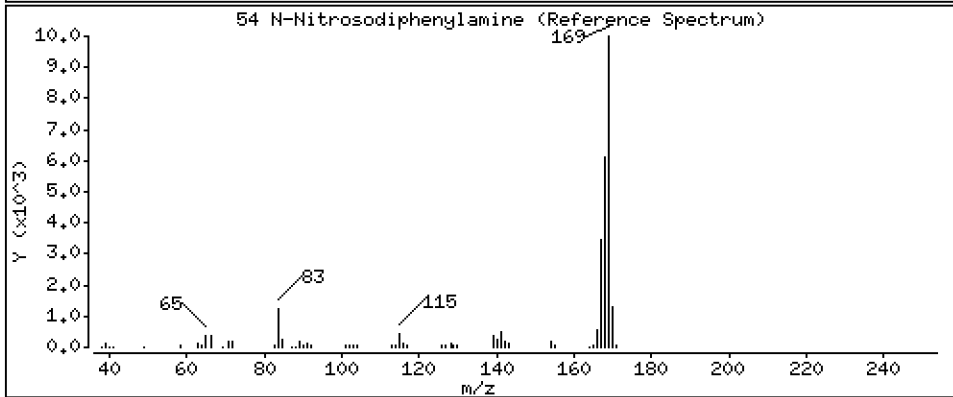
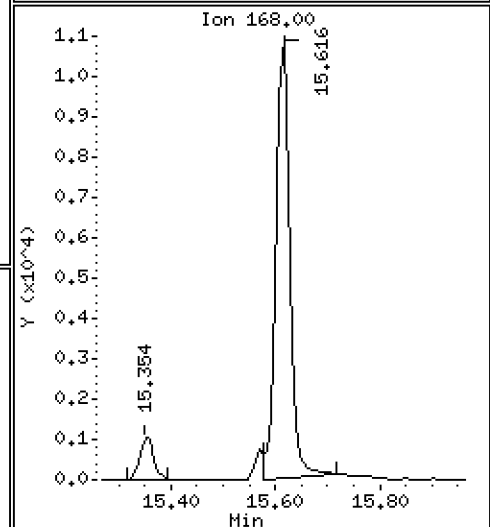
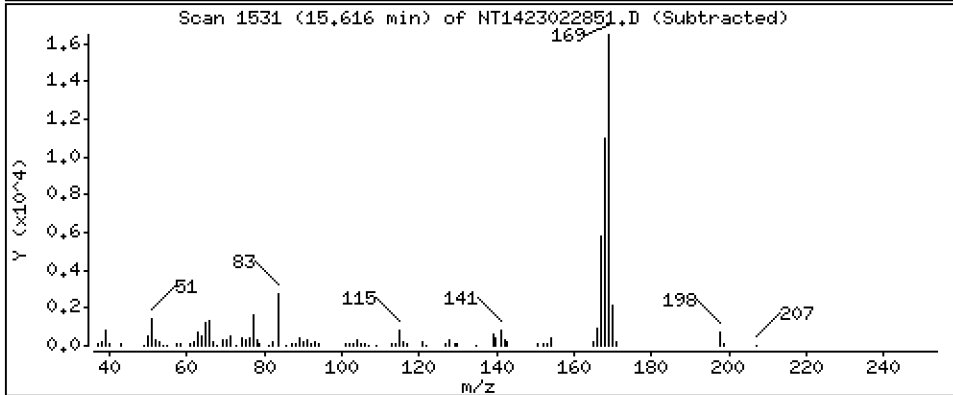
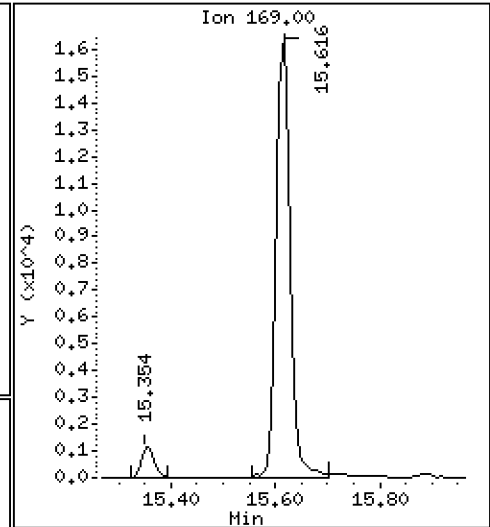
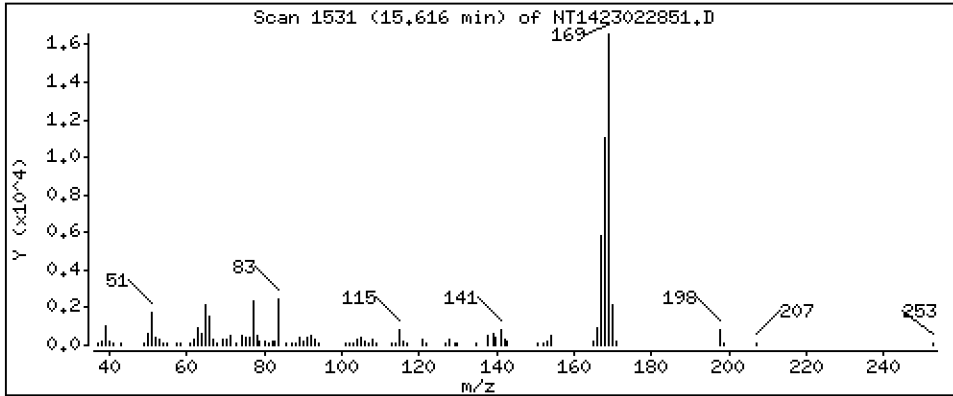
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,5667 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

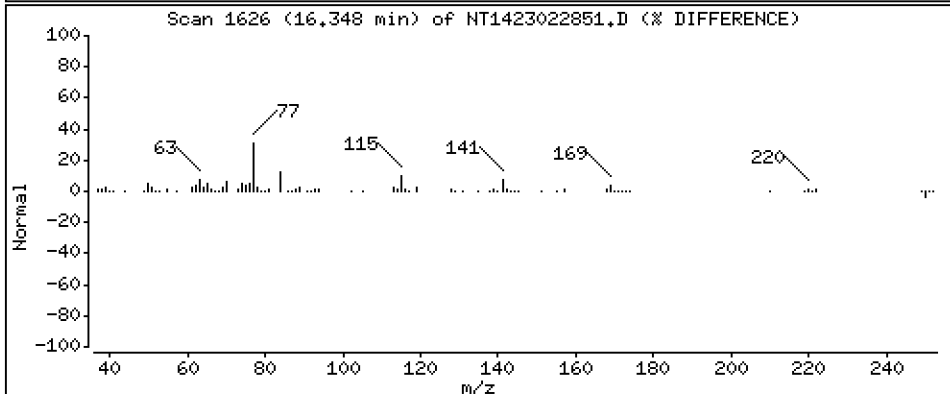
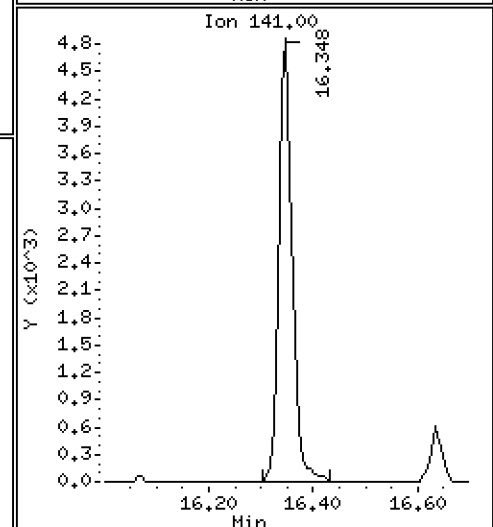
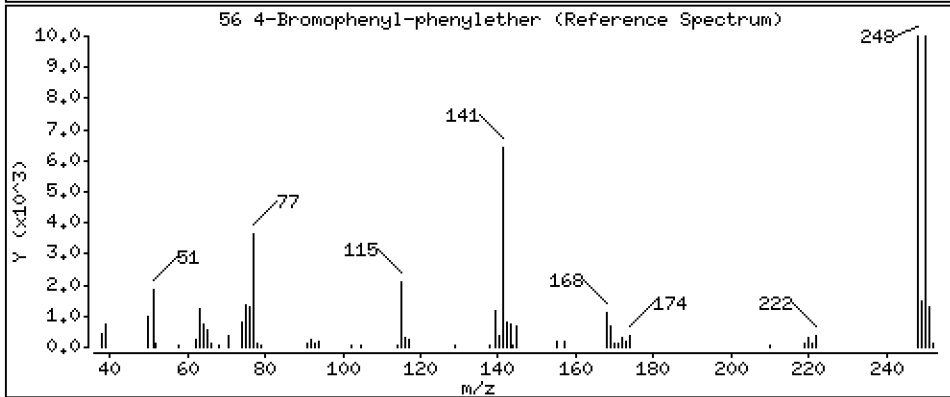
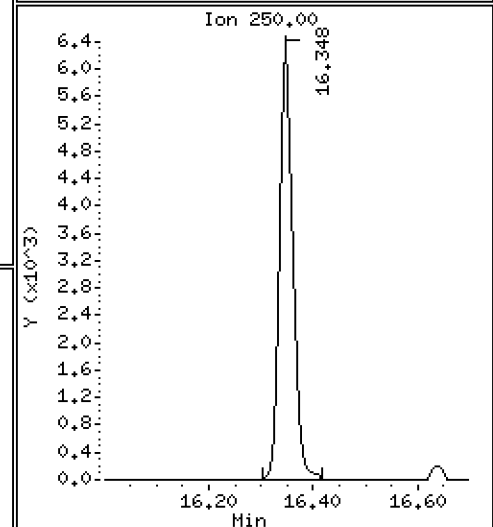
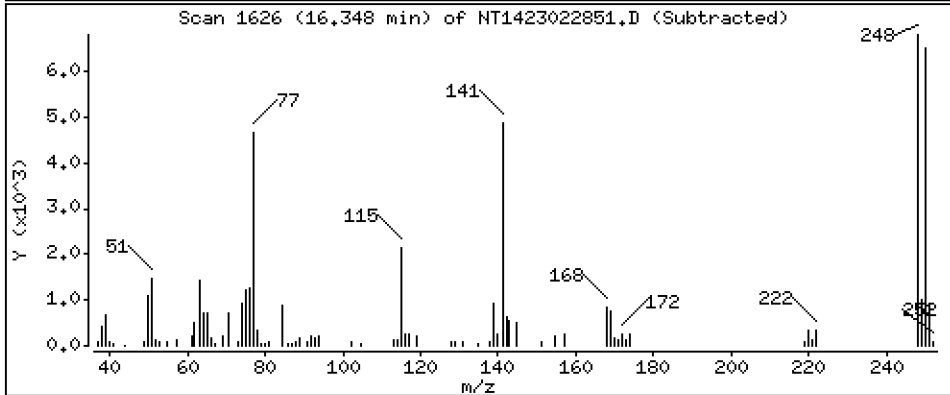
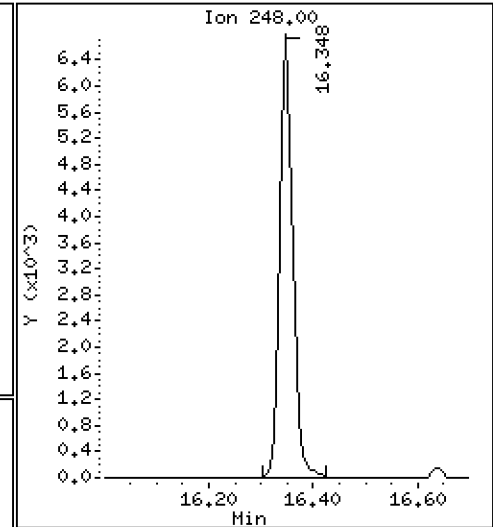
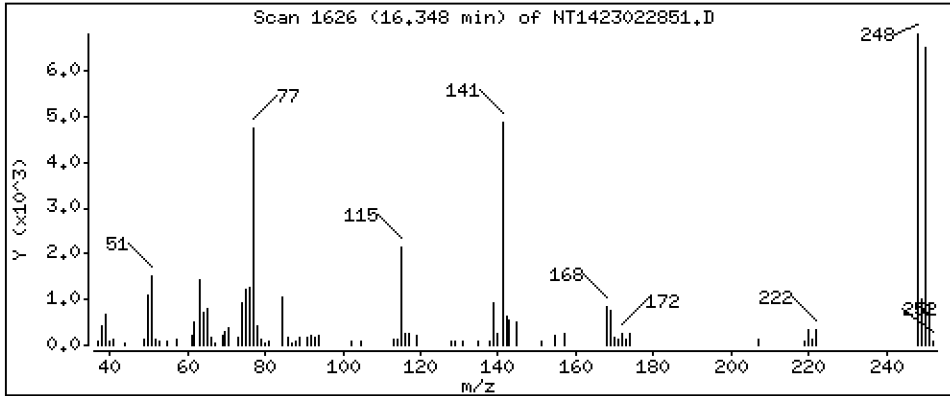
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,5058 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

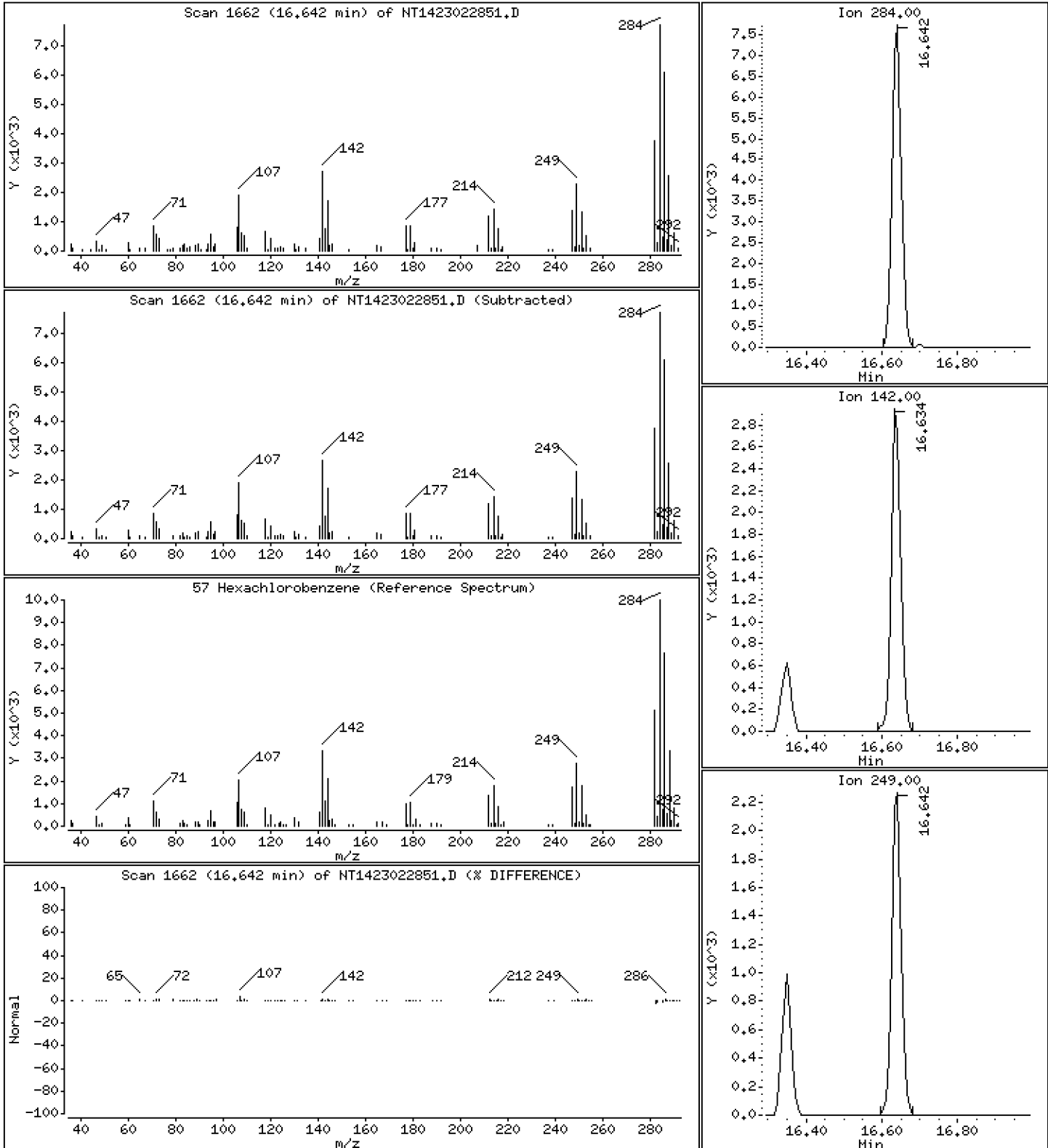
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,5168 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

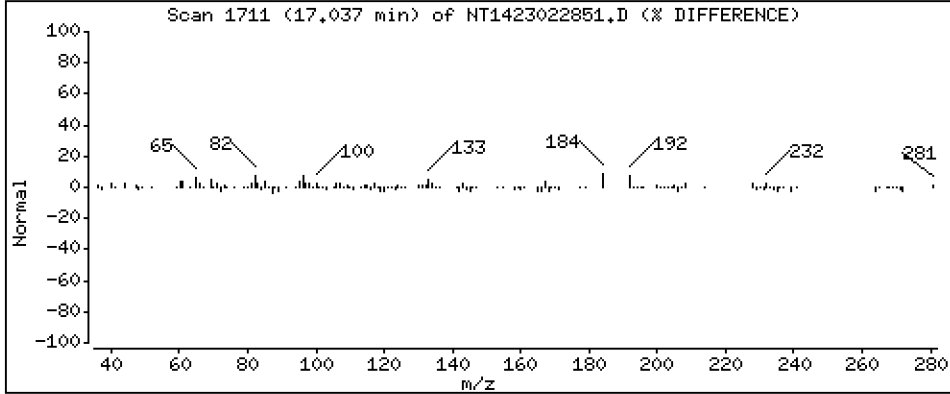
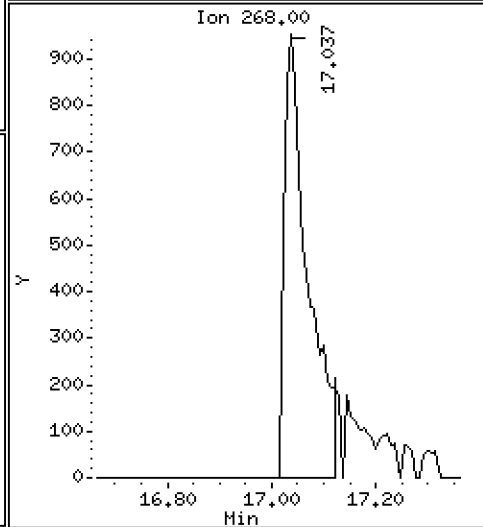
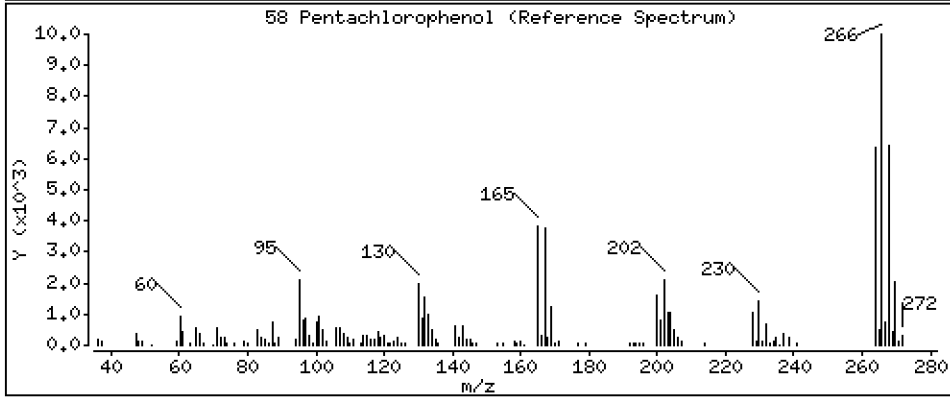
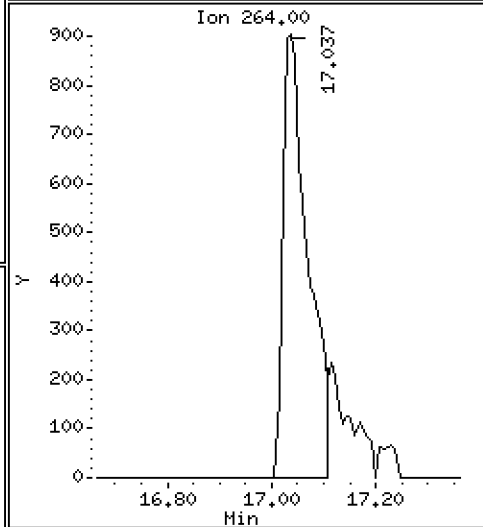
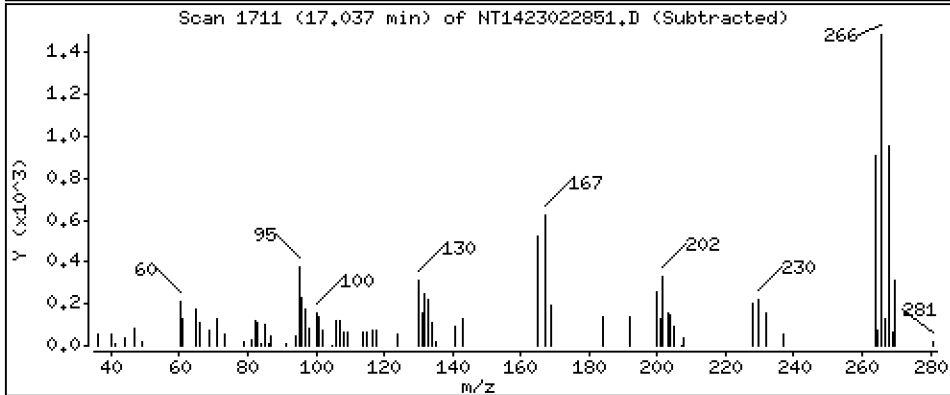
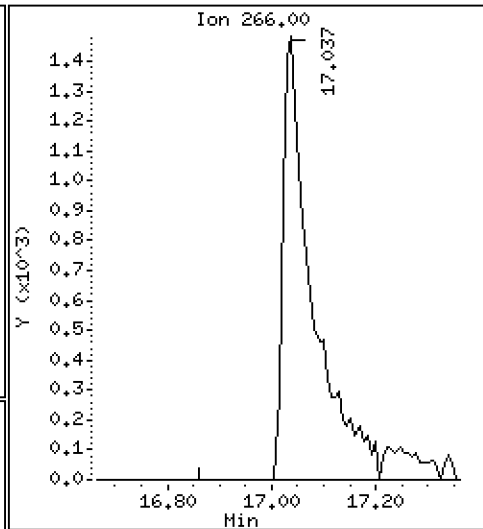
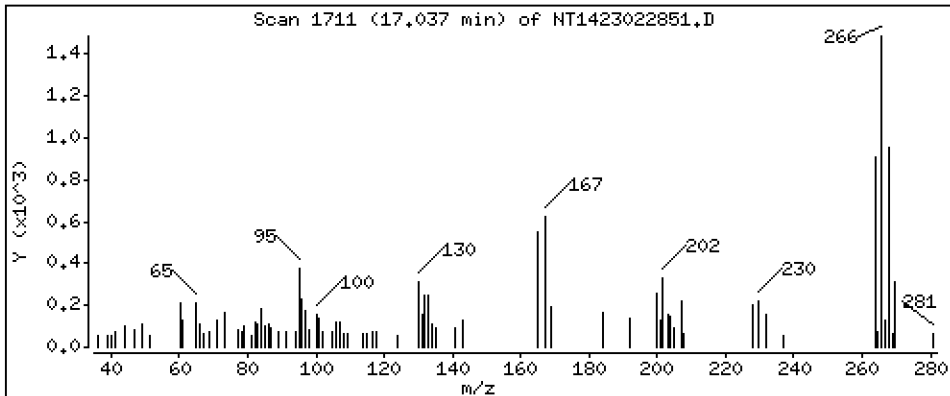
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,5527 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

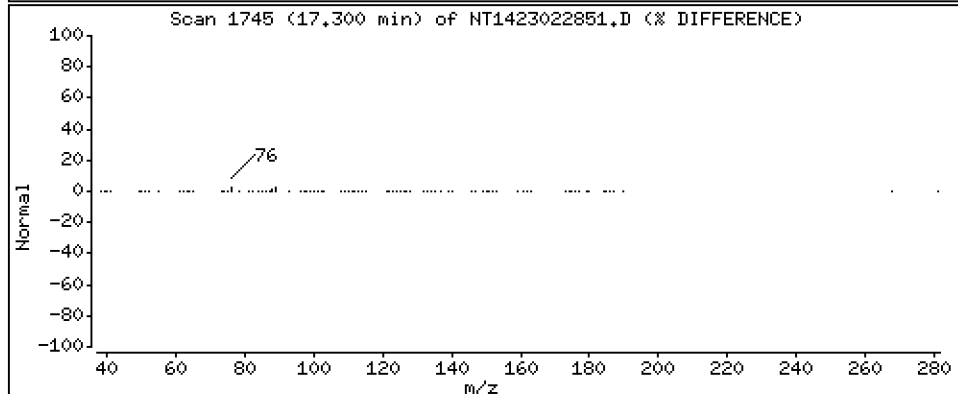
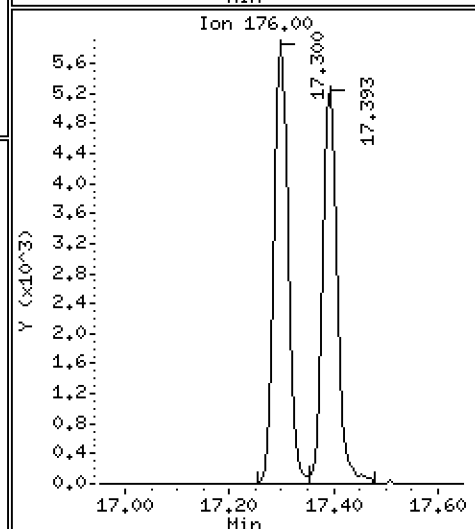
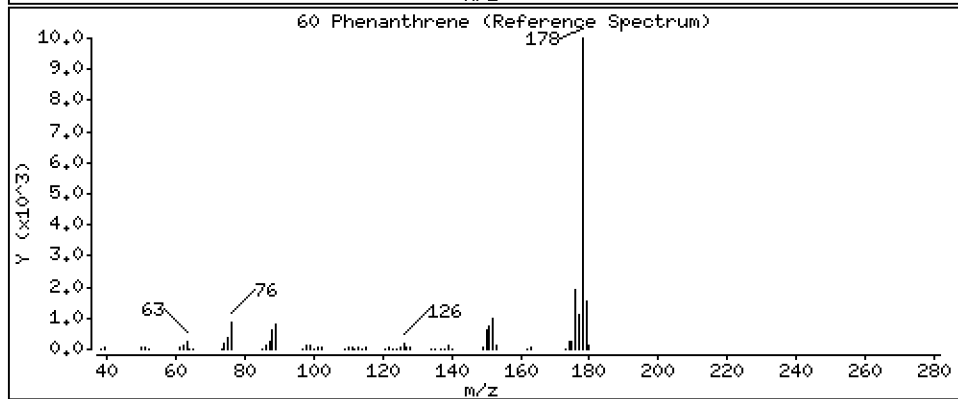
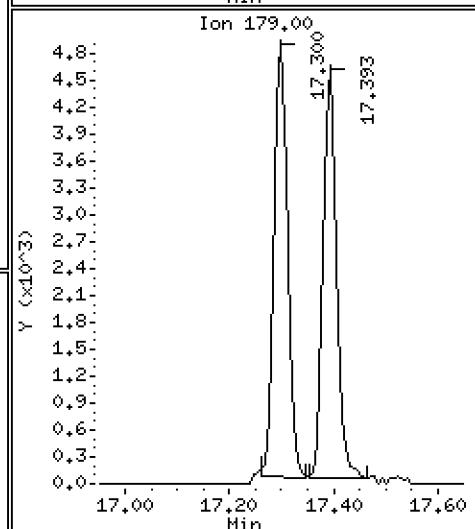
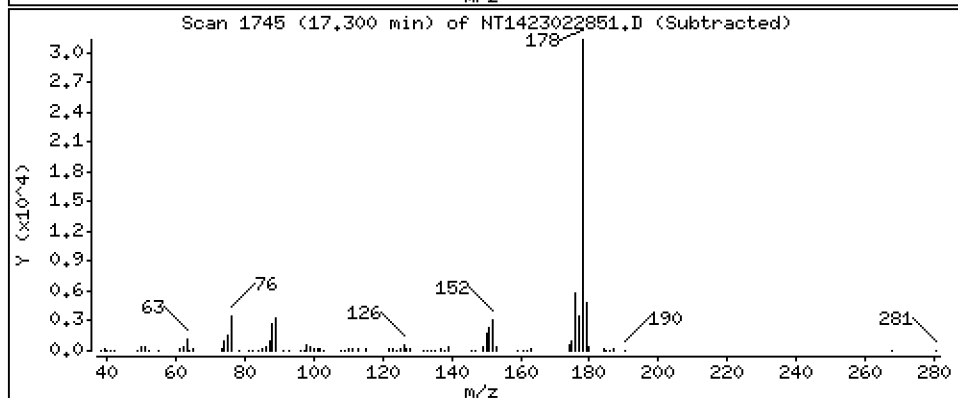
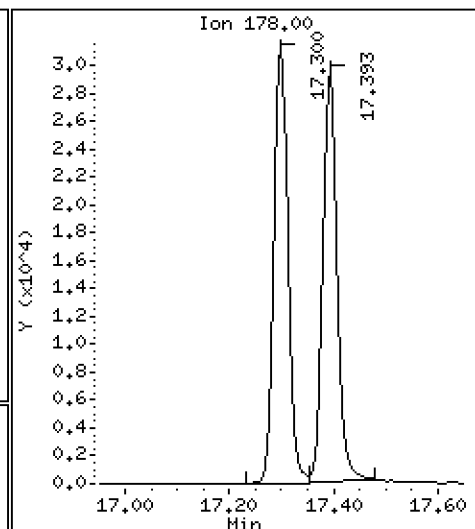
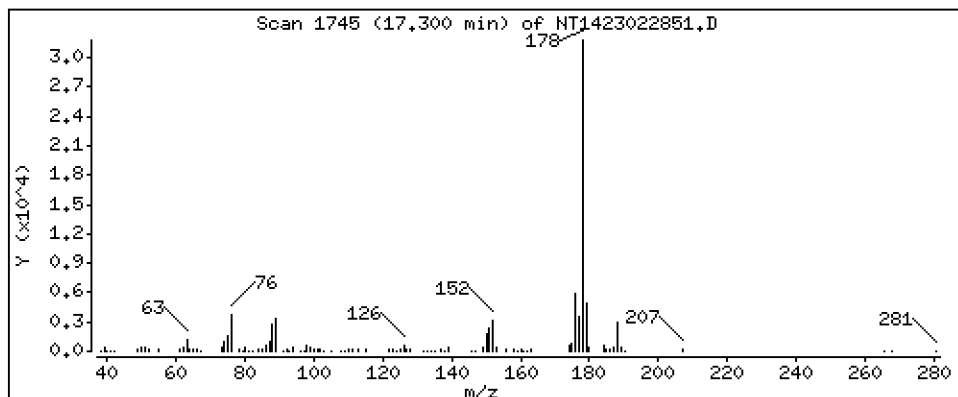
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,5174 ug/mL





Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

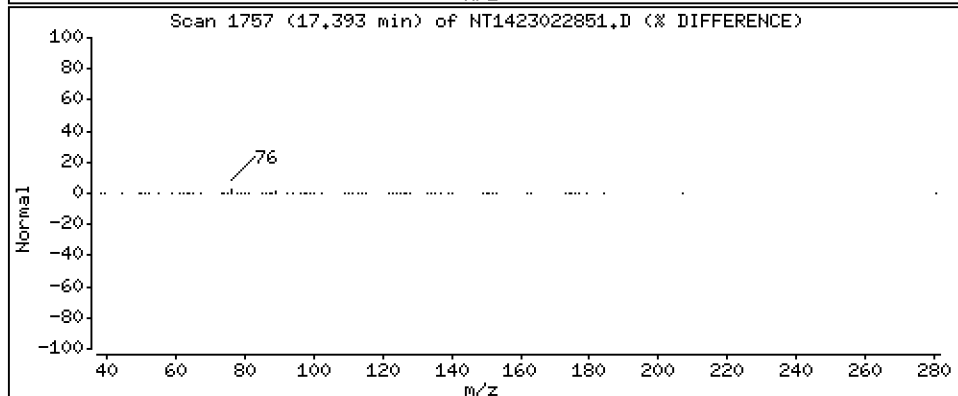
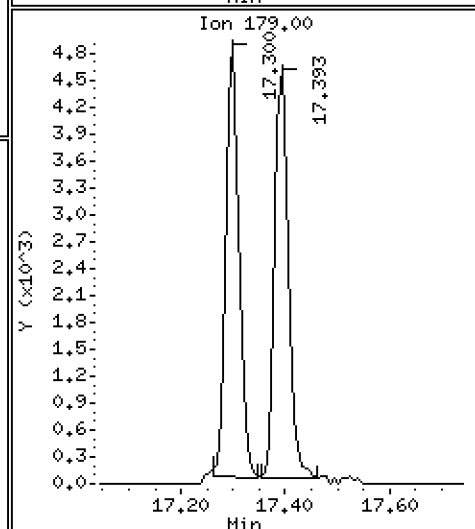
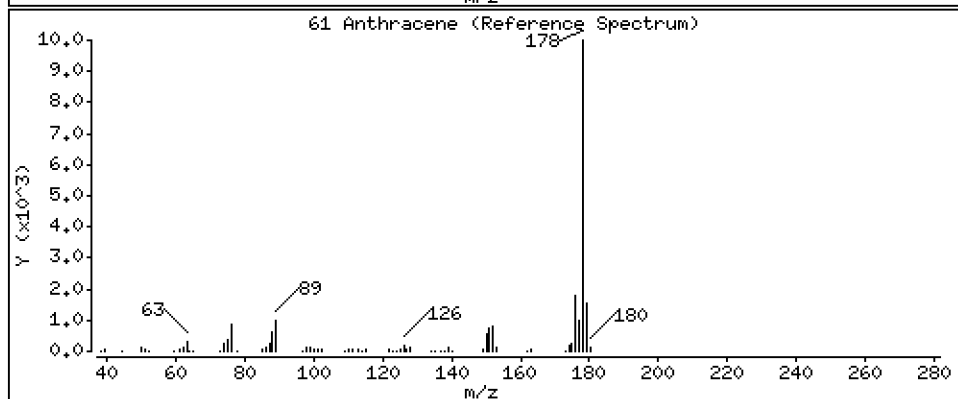
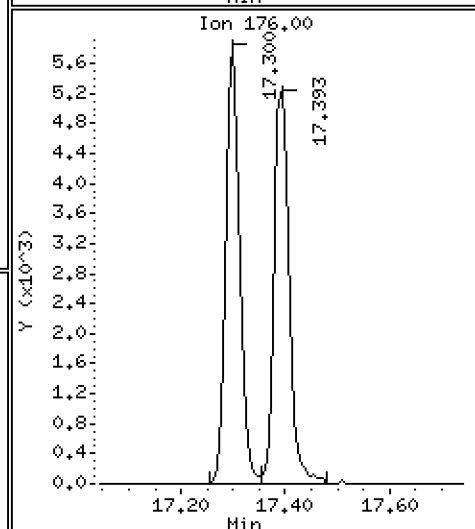
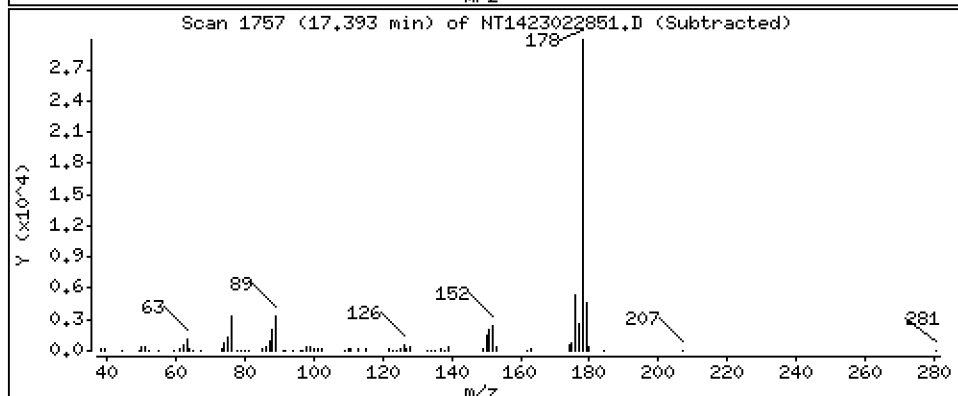
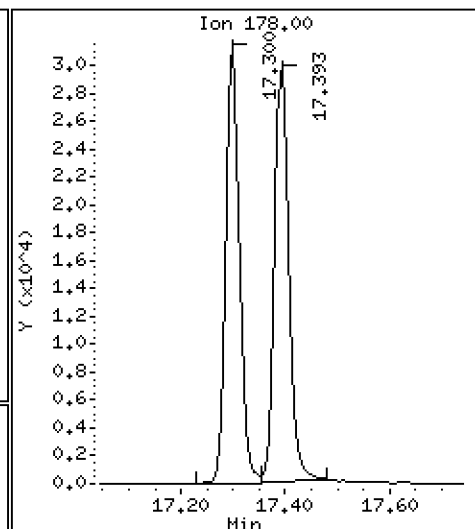
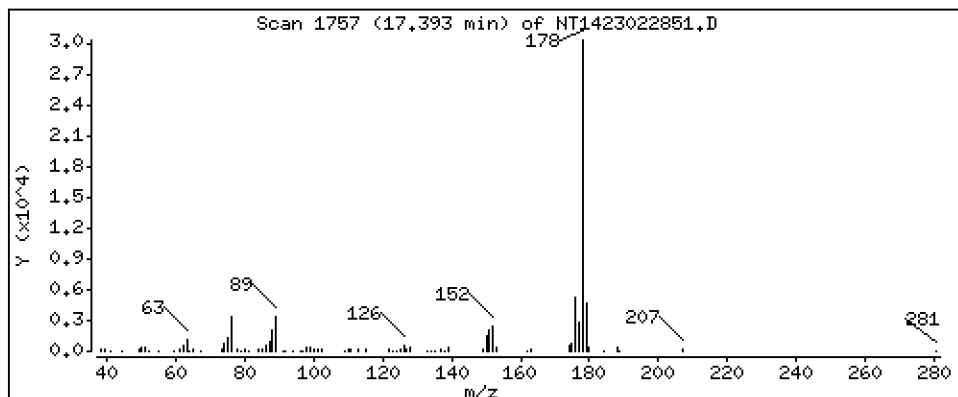
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,5267 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

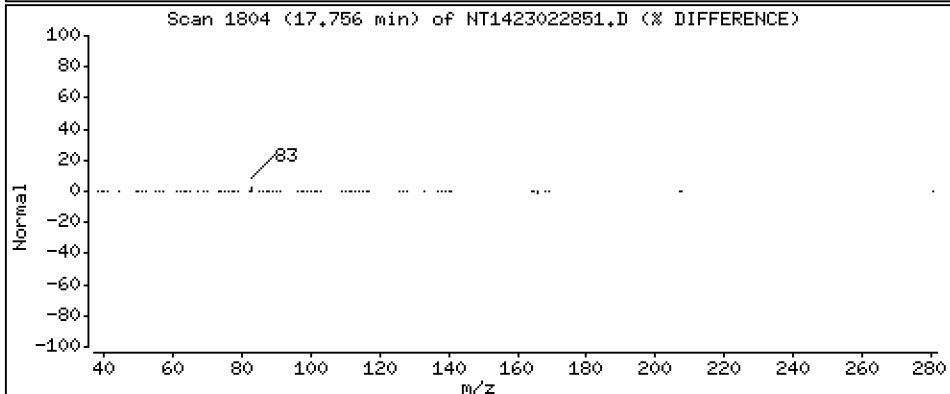
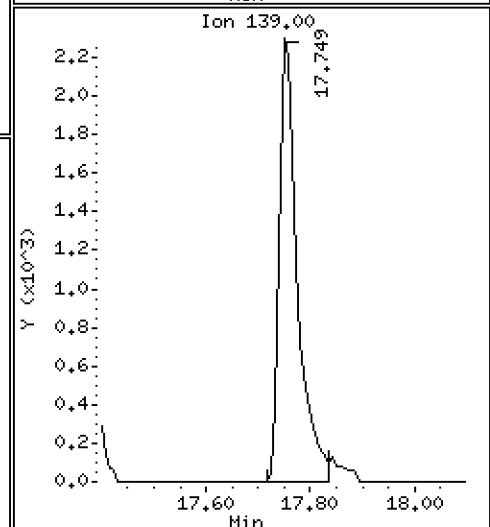
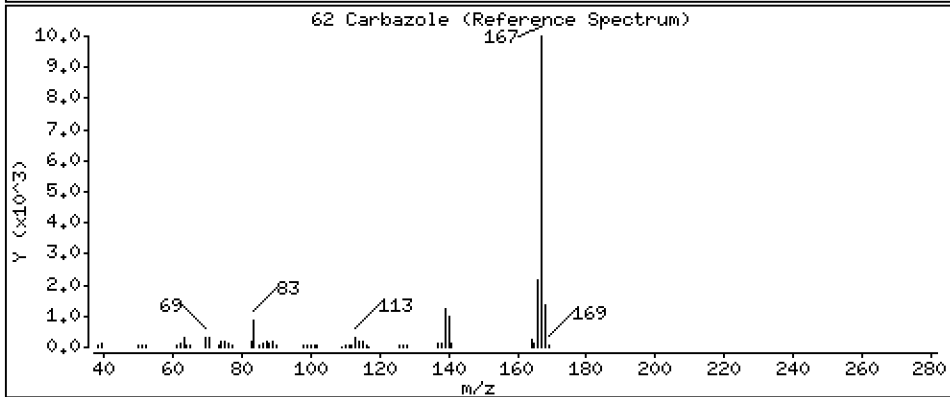
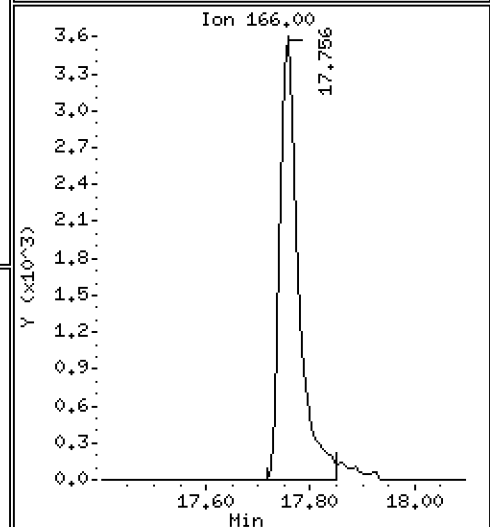
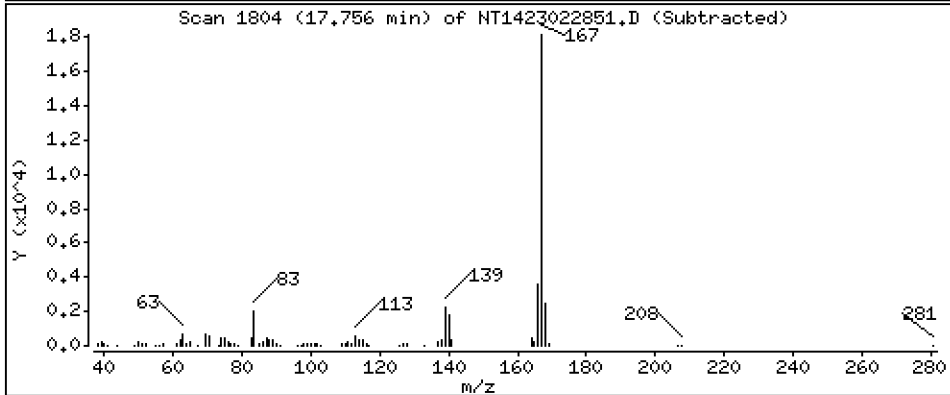
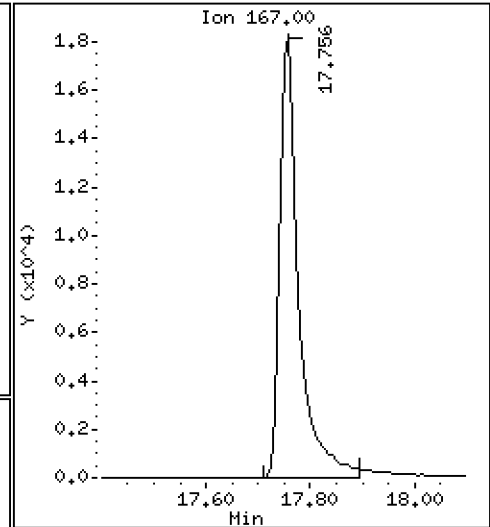
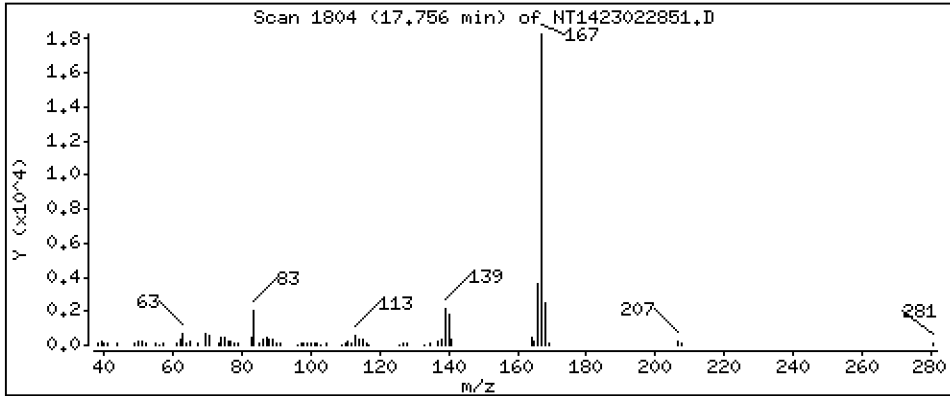
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,5008 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

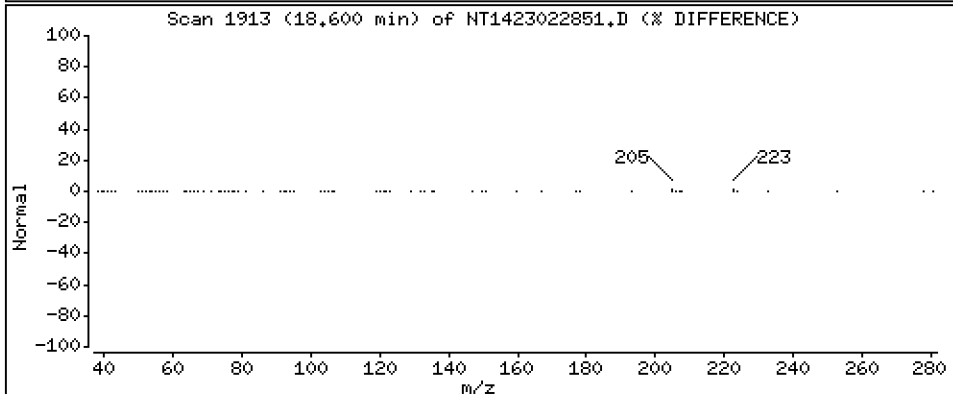
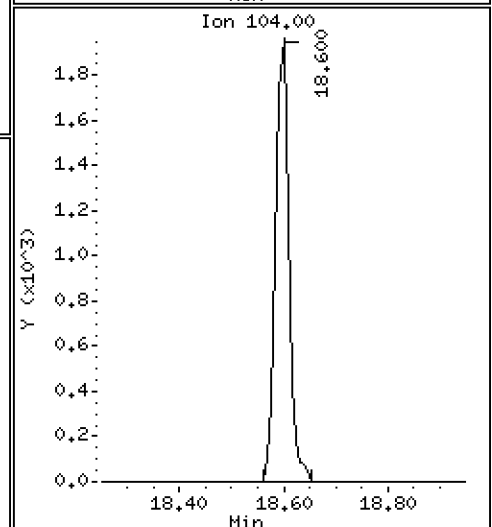
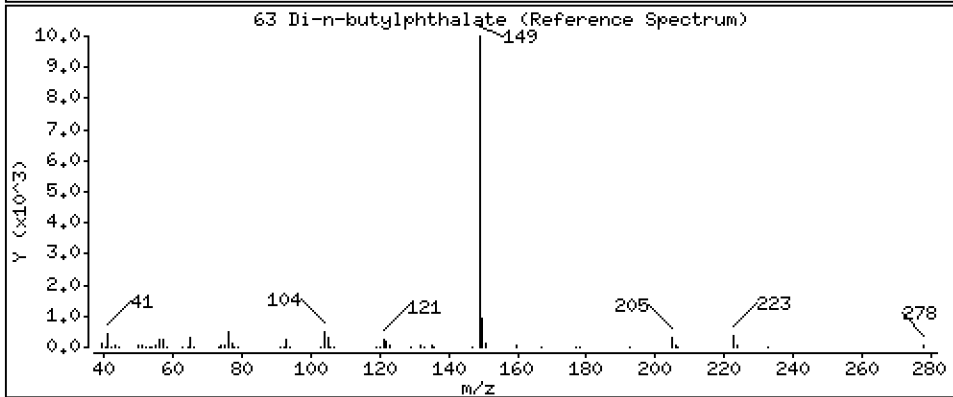
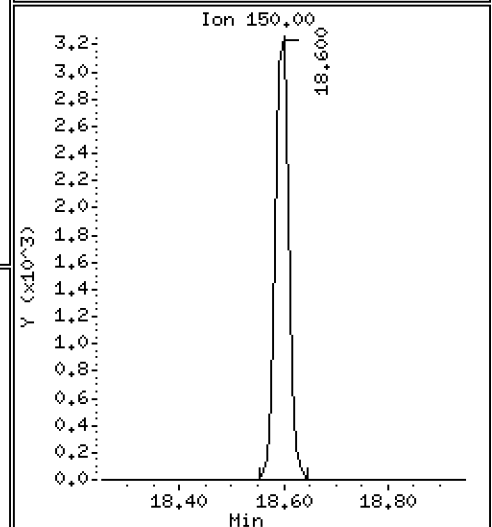
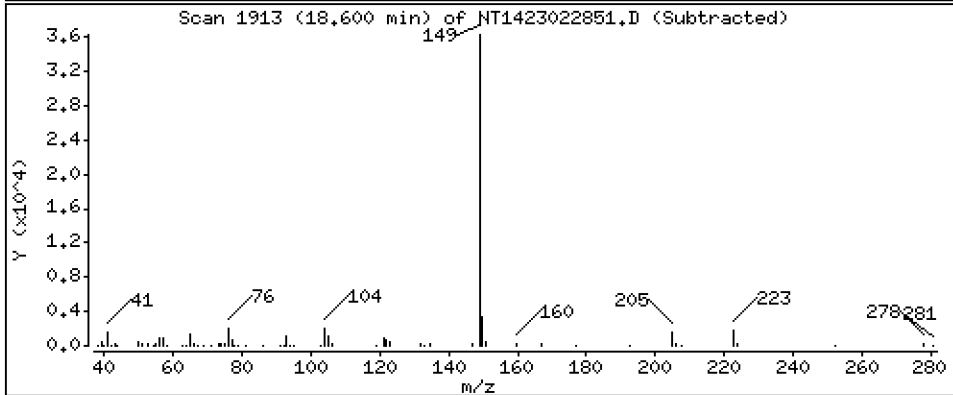
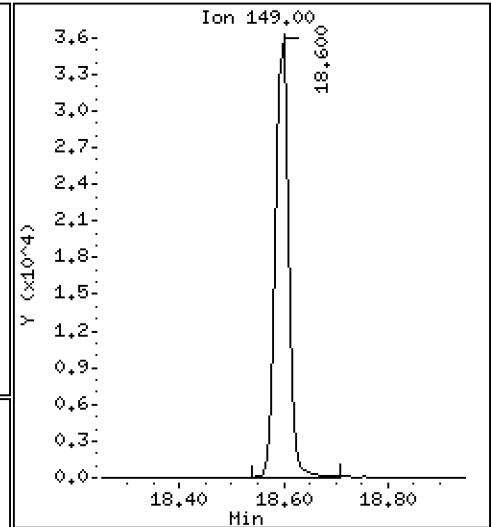
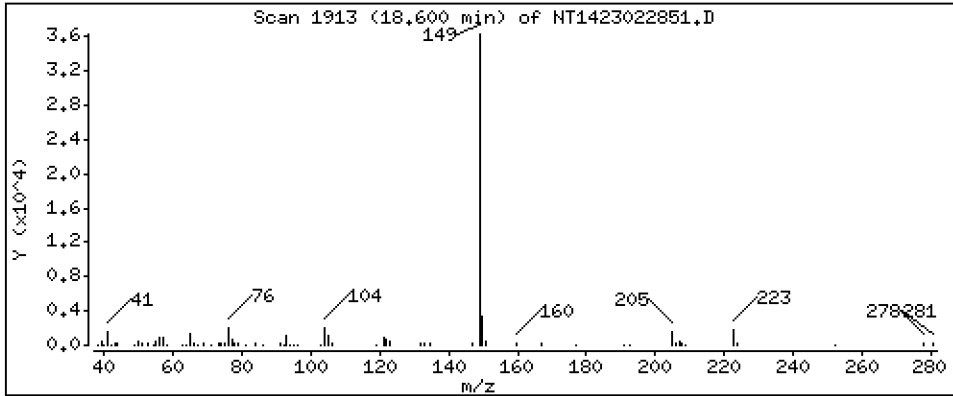
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,5148 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

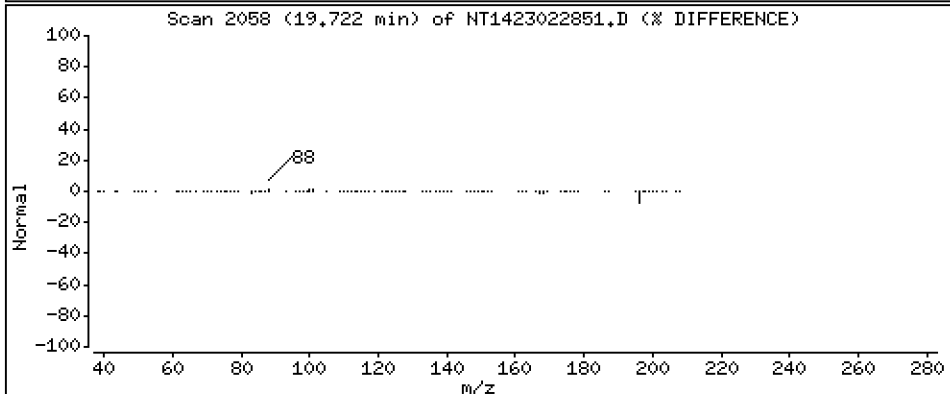
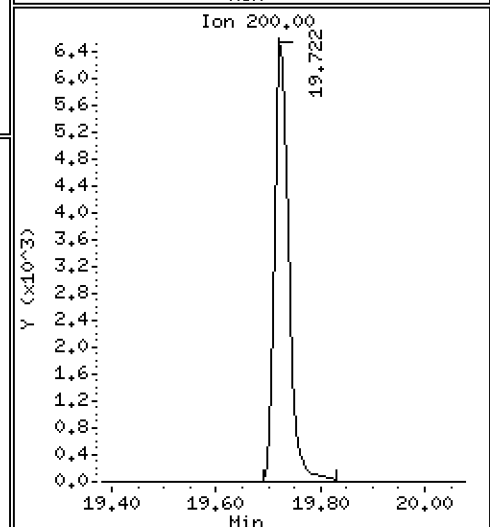
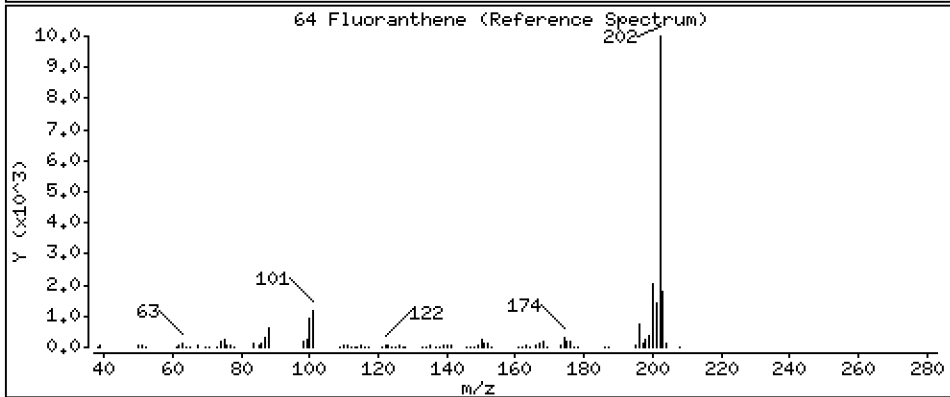
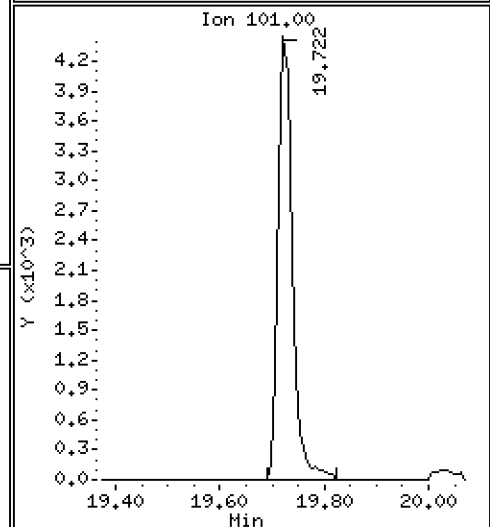
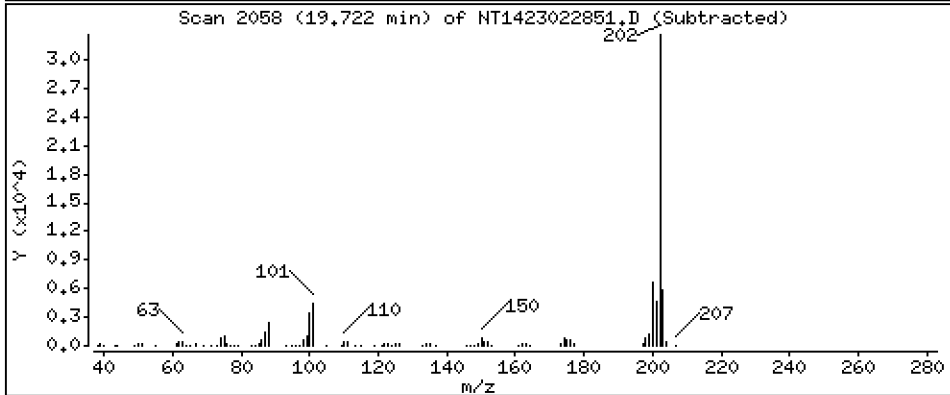
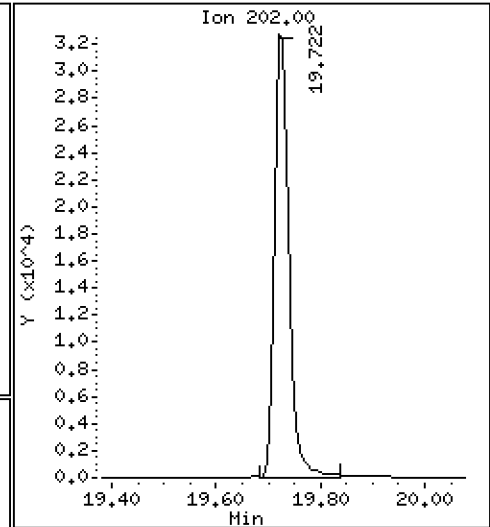
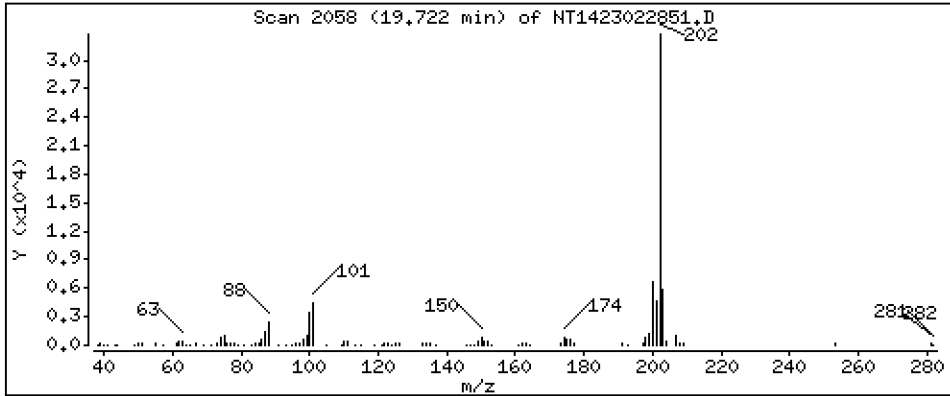
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,4660 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

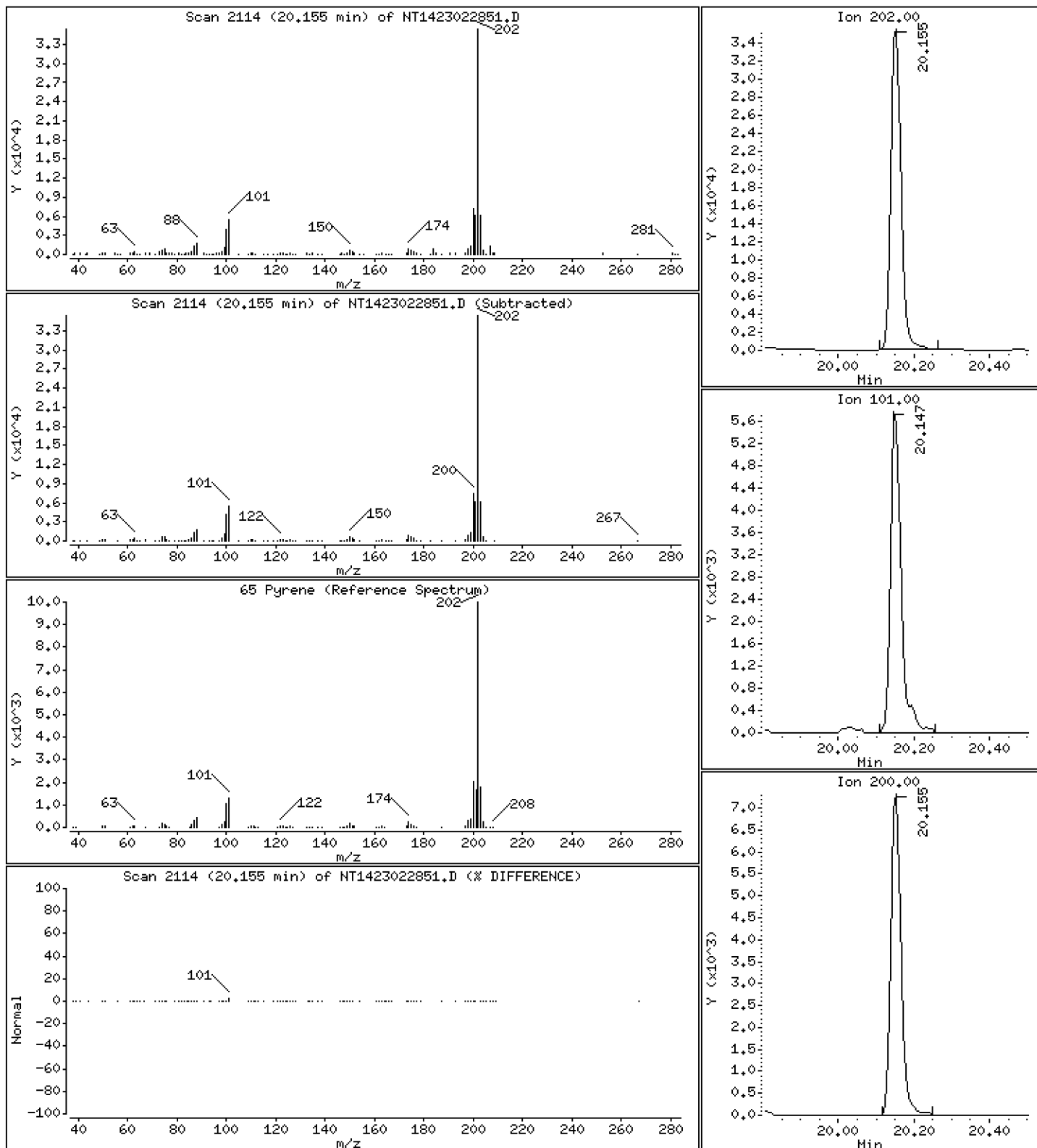
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,4661 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

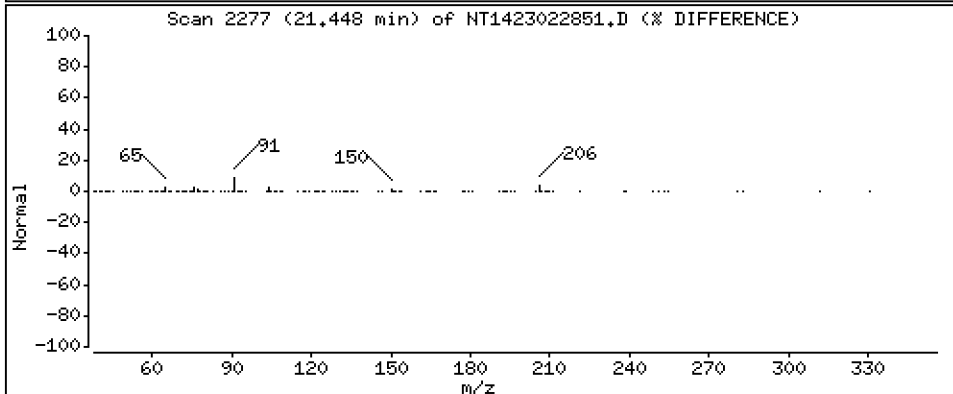
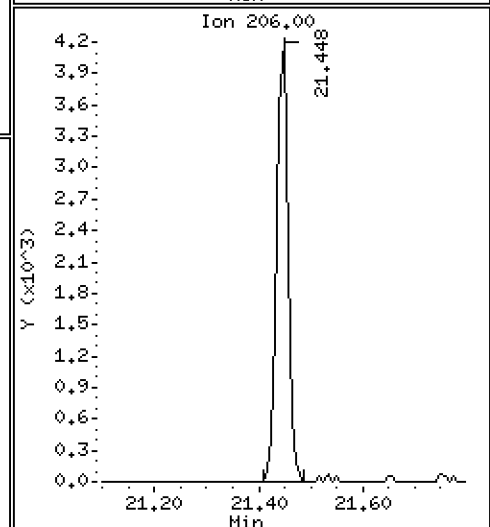
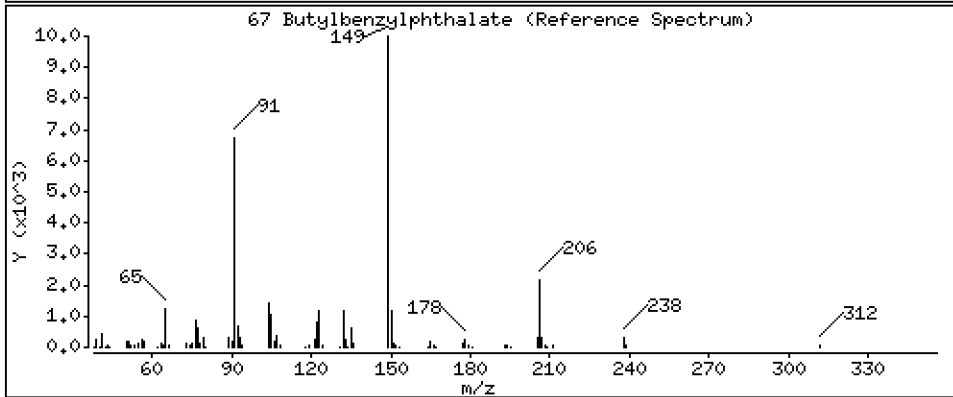
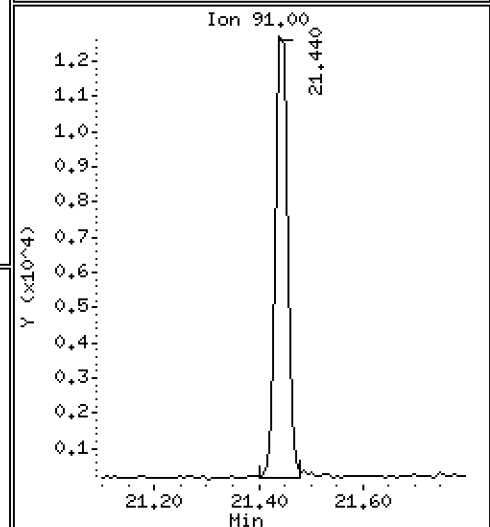
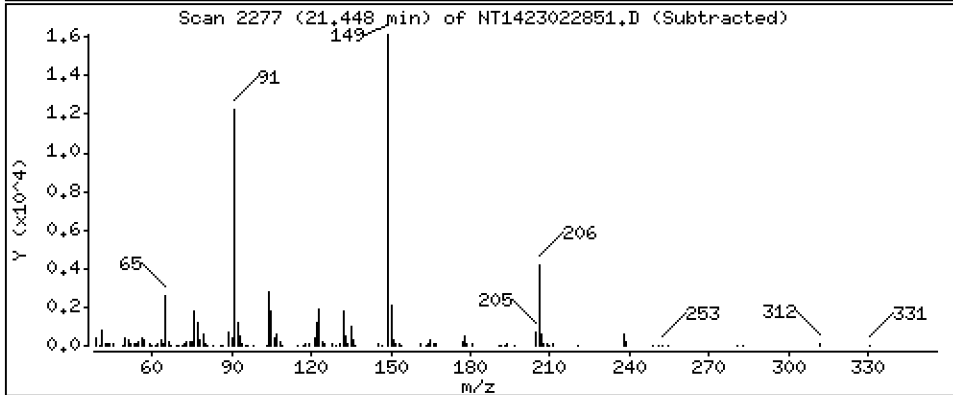
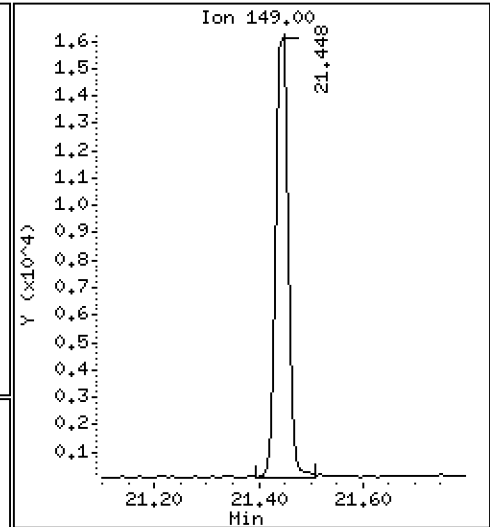
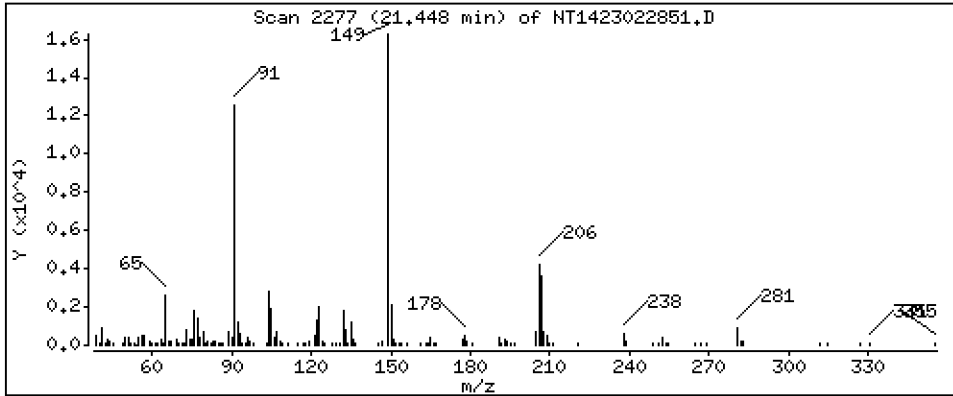
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,5157 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

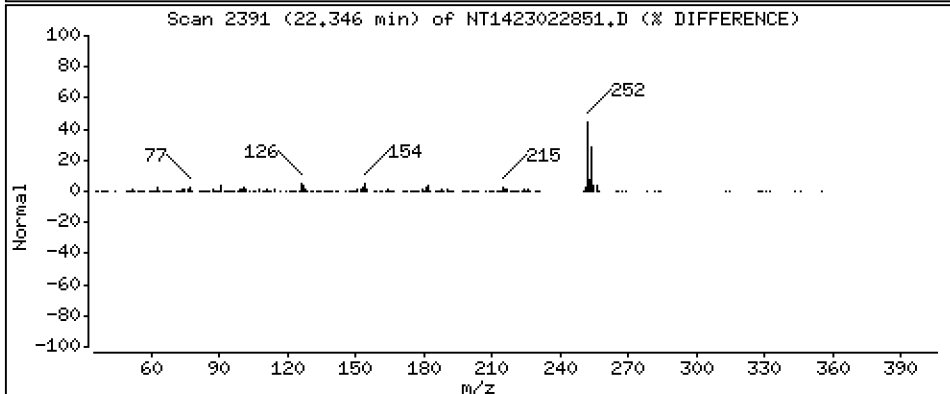
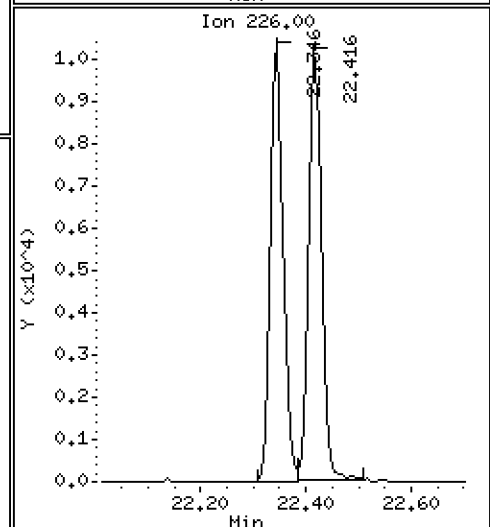
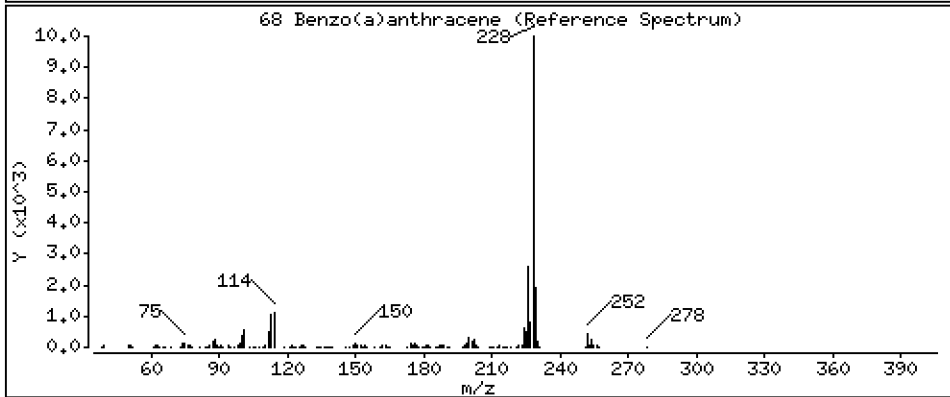
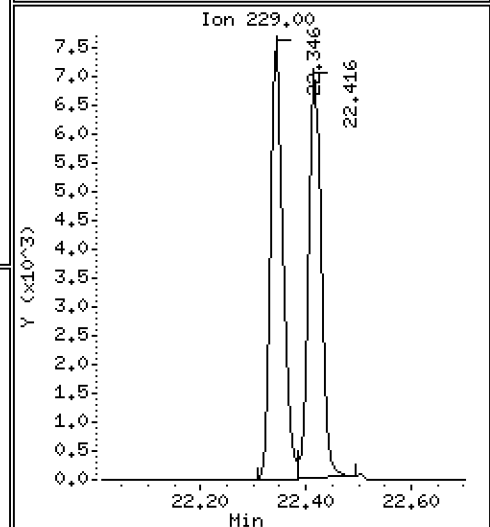
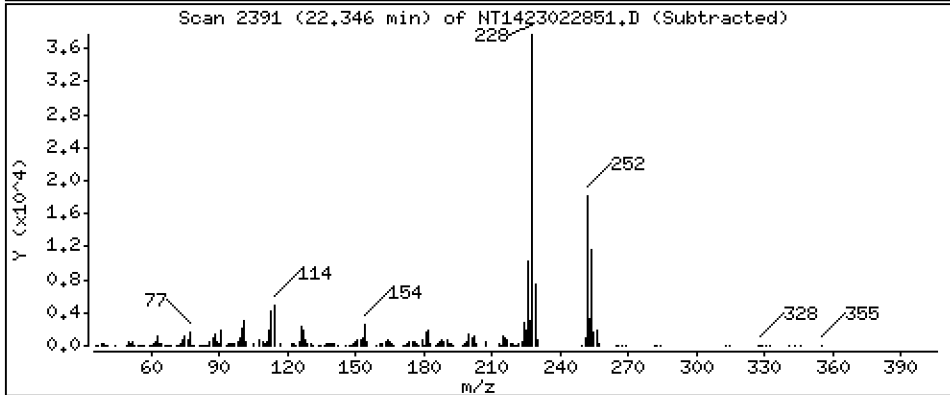
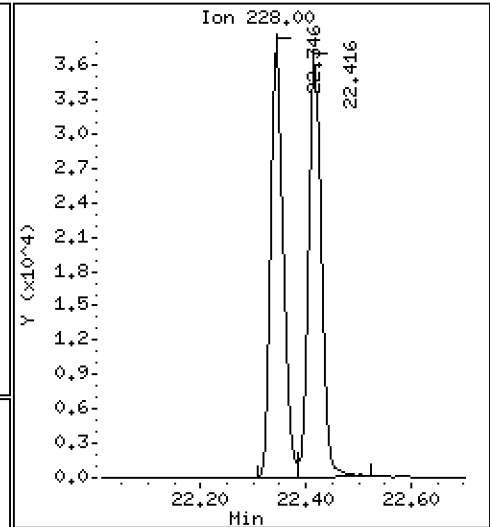
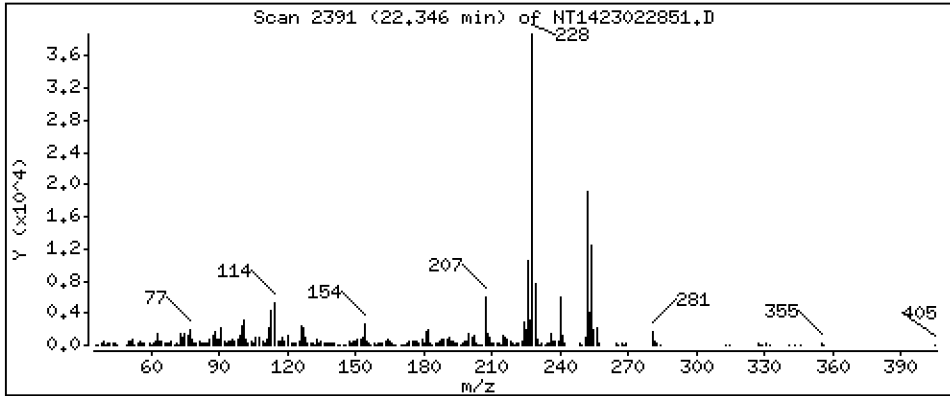
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,5494 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

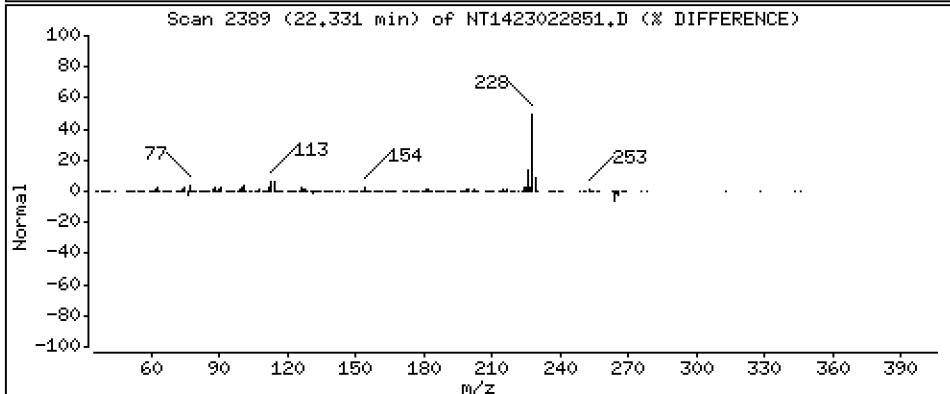
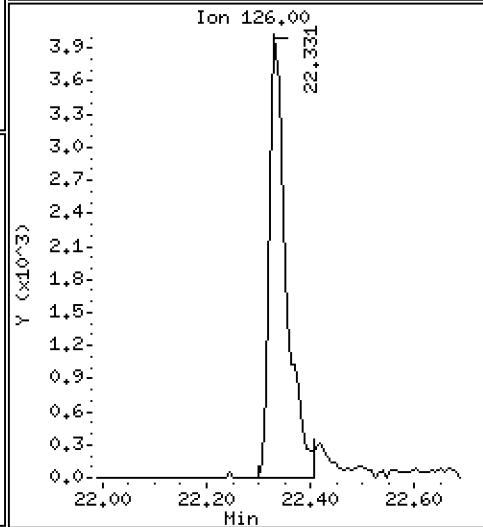
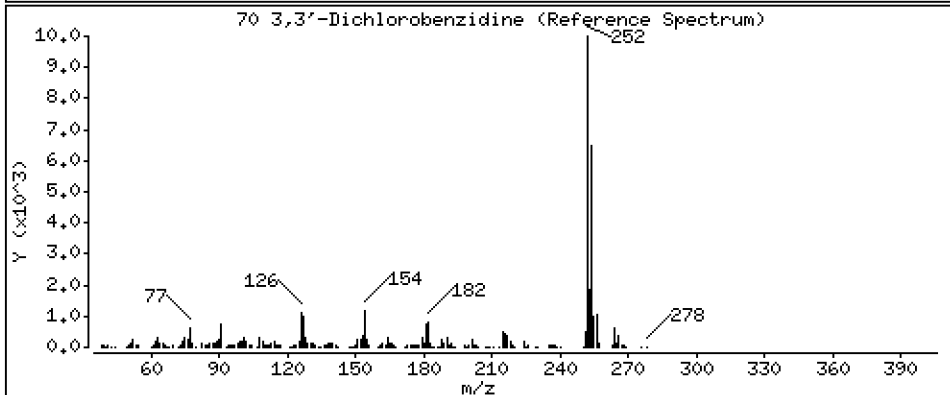
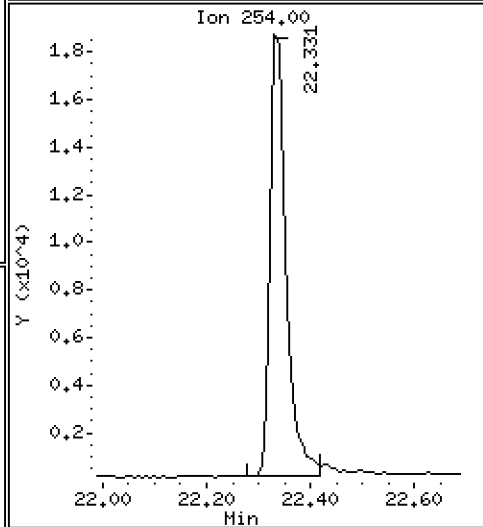
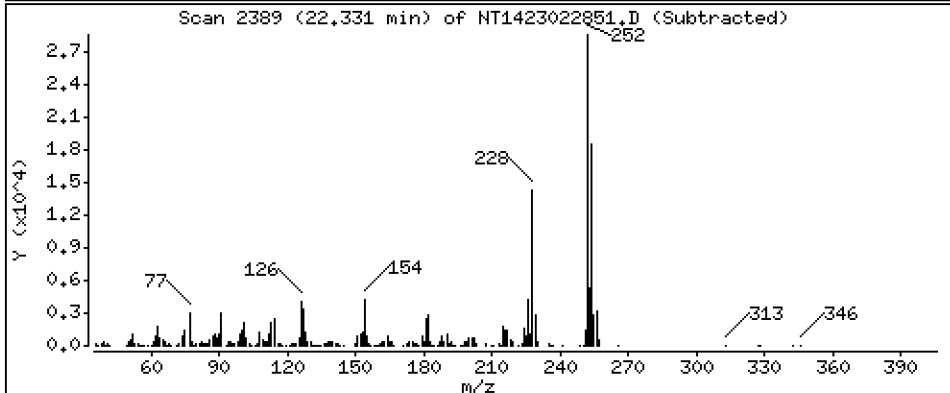
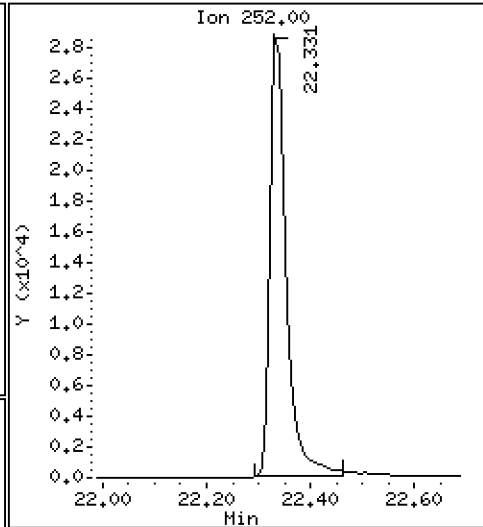
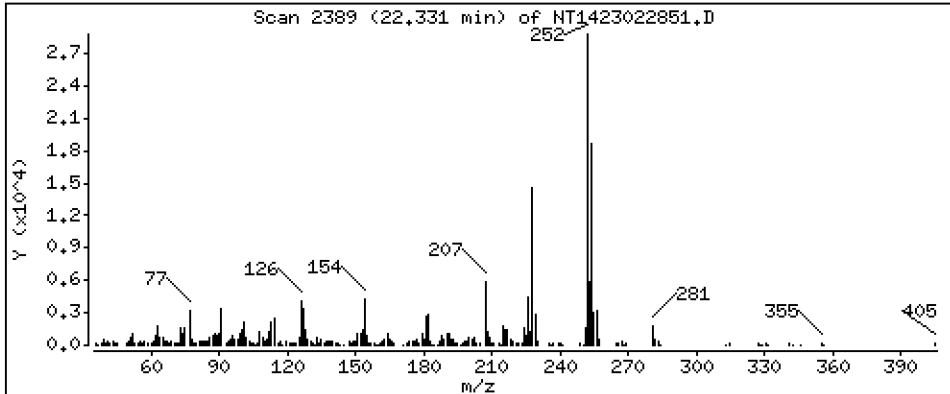
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 1,836 ug/mL





Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

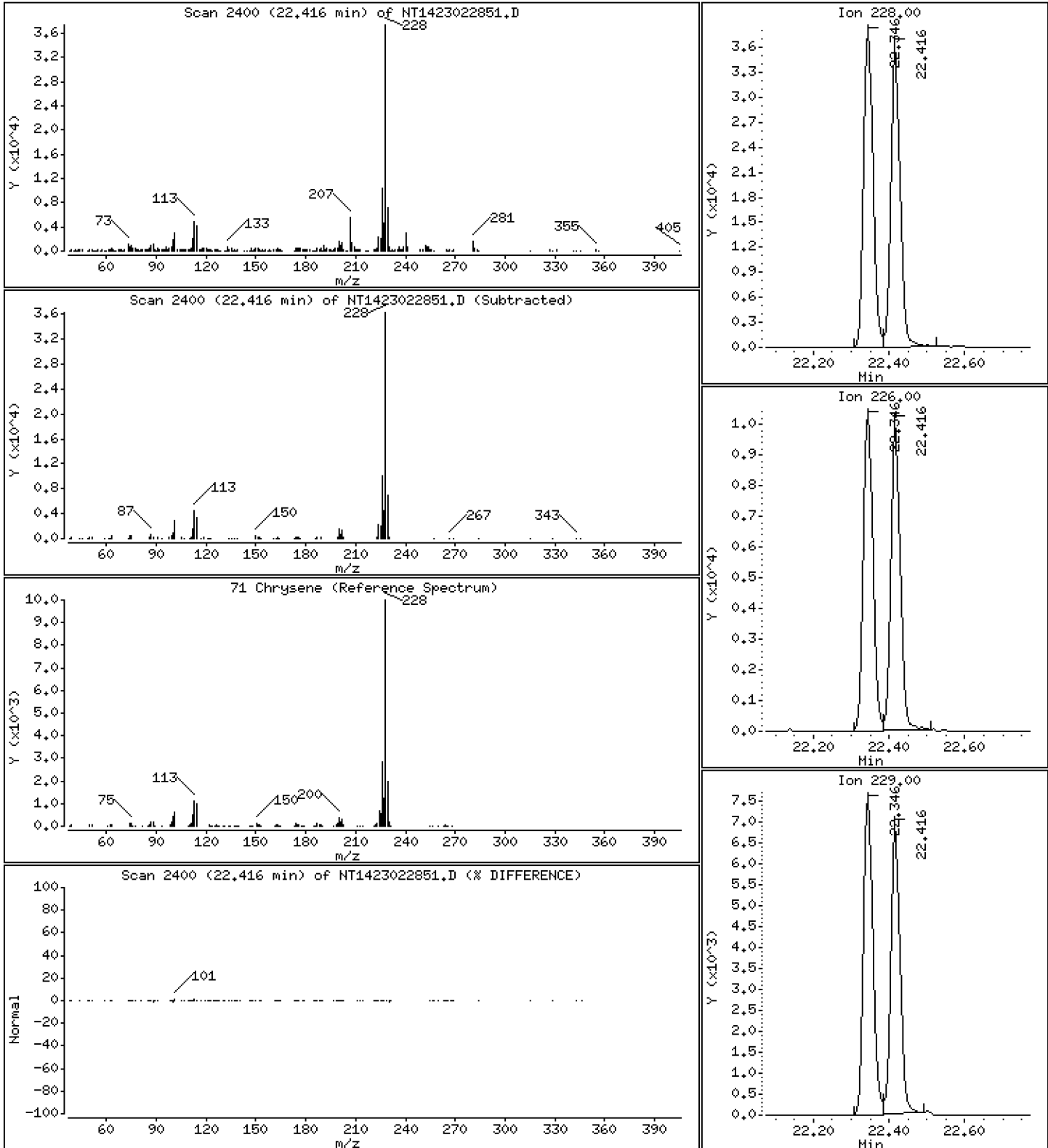
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,5382 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

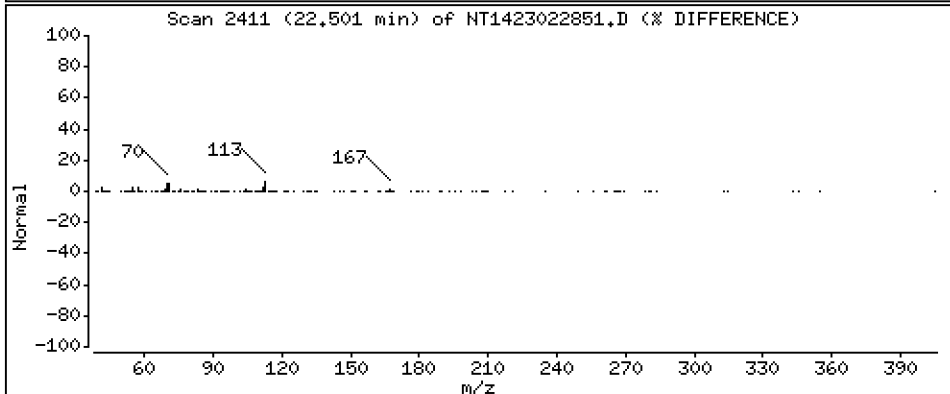
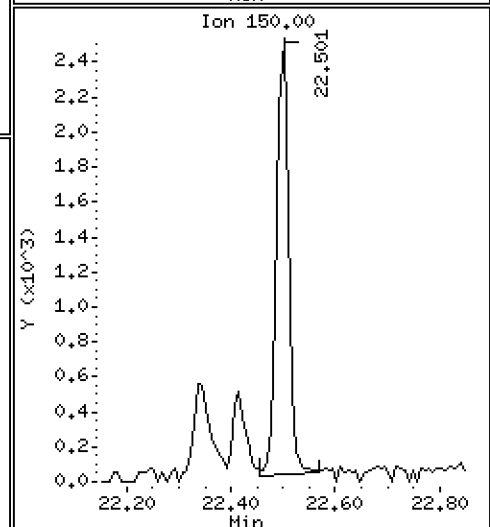
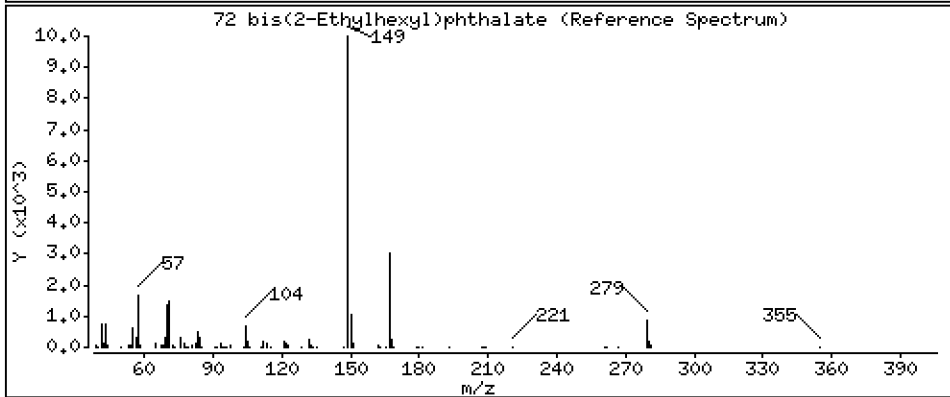
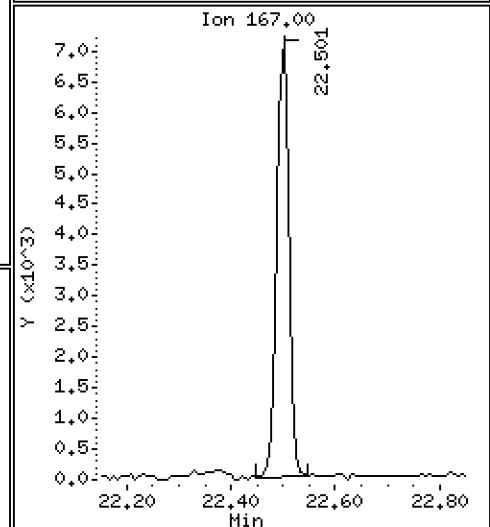
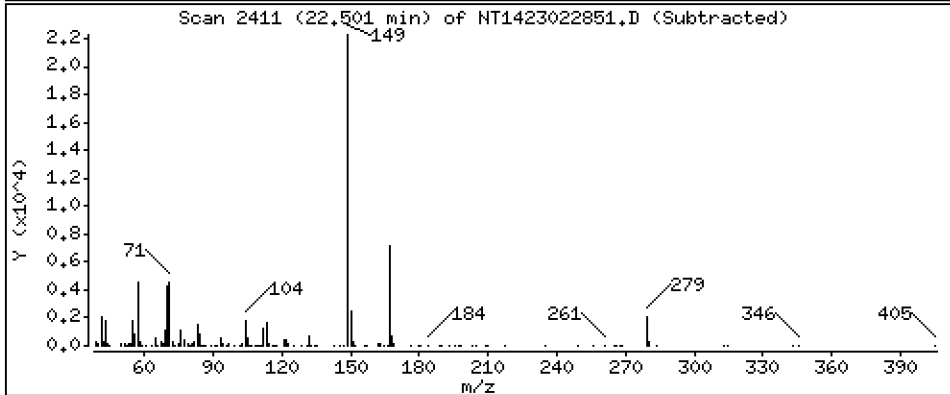
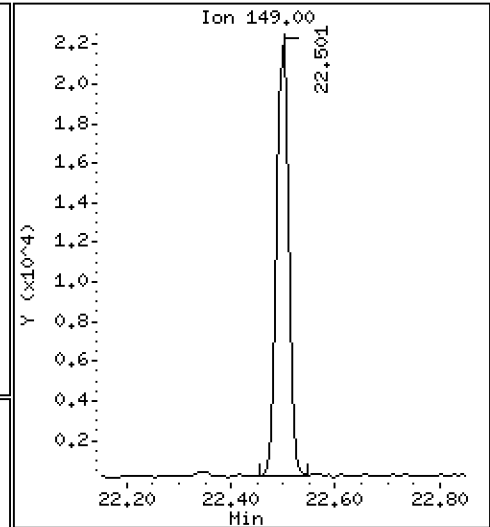
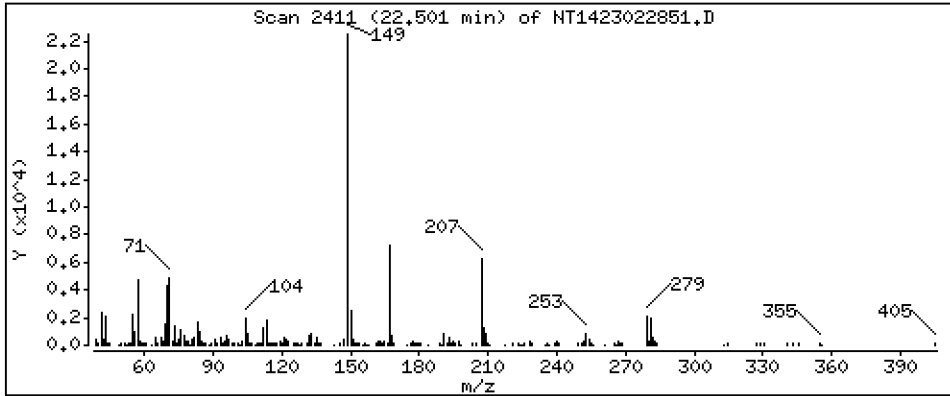
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,4540 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

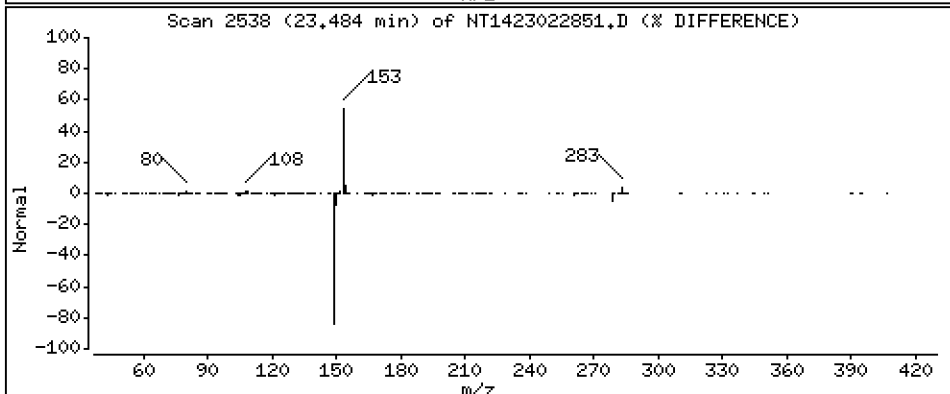
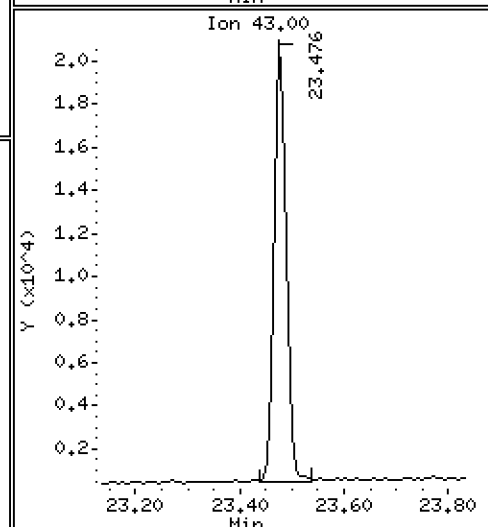
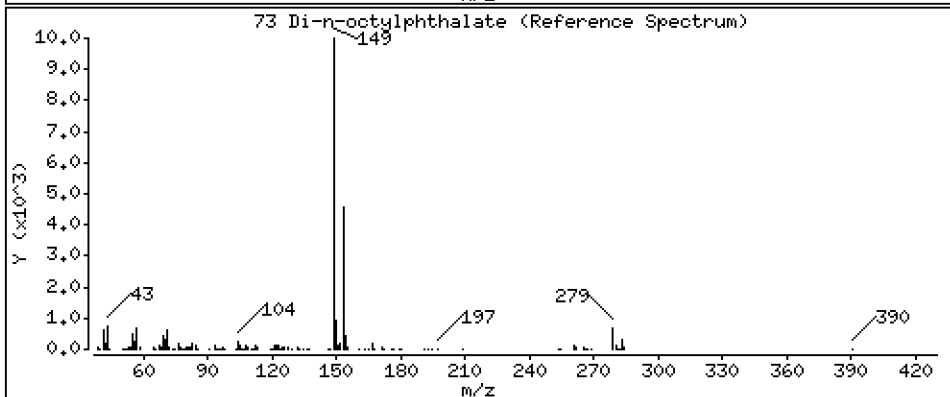
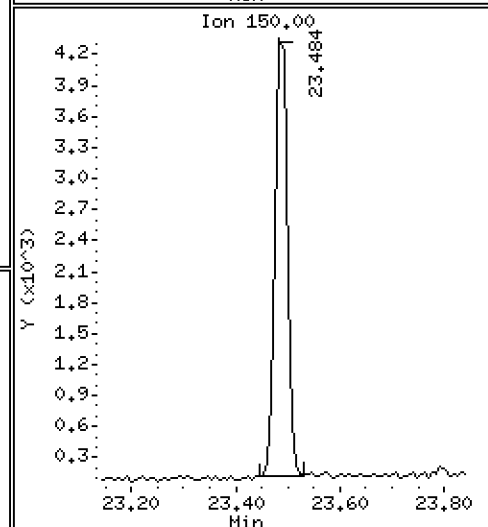
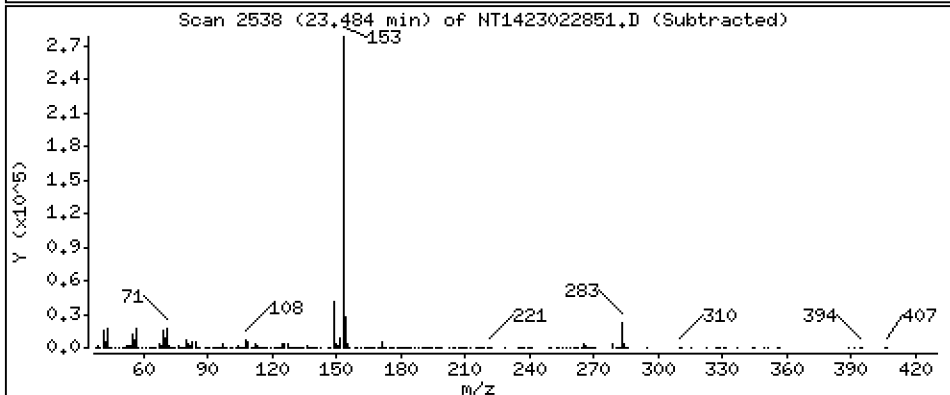
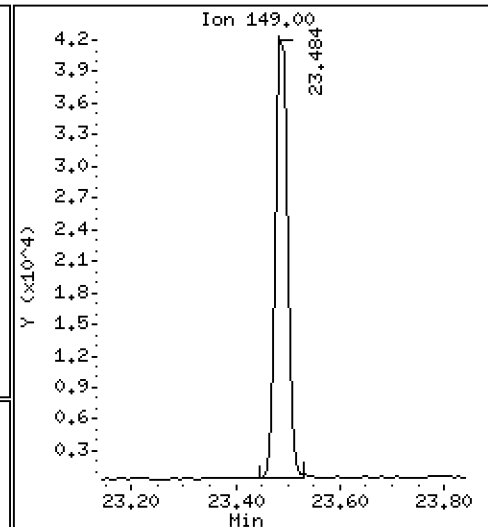
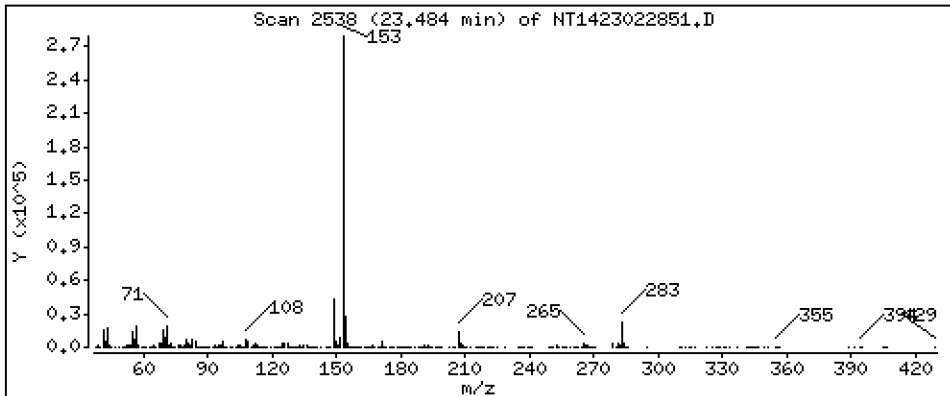
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,5007 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

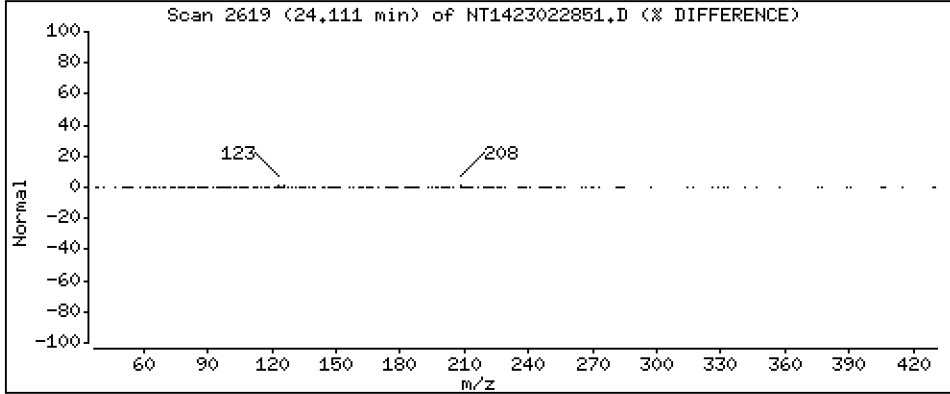
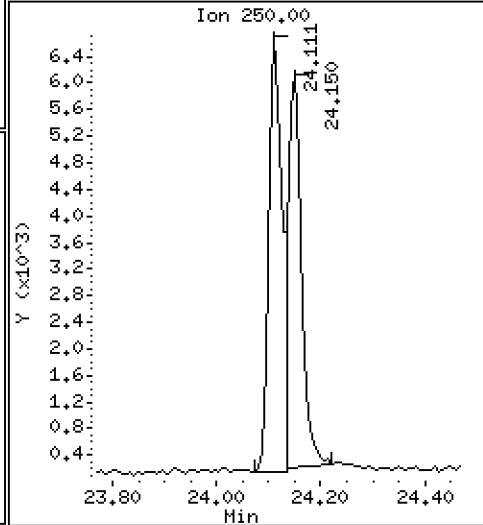
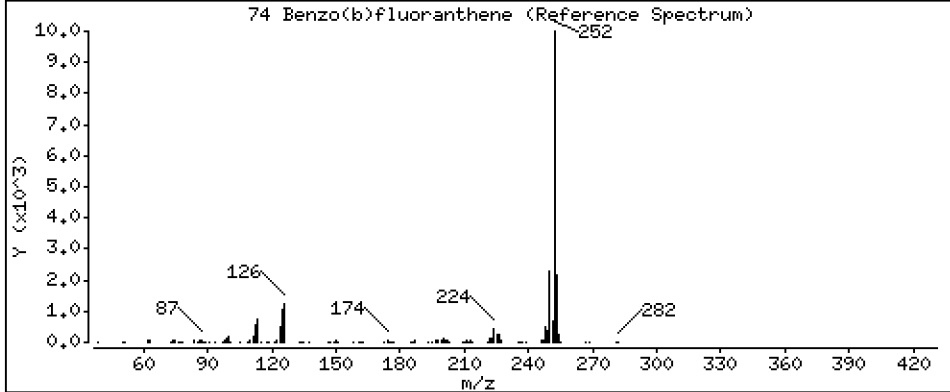
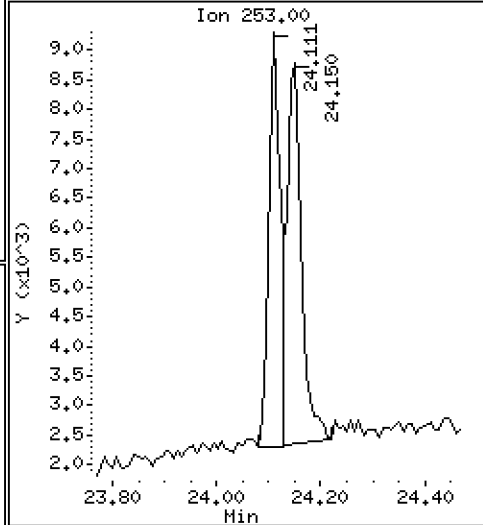
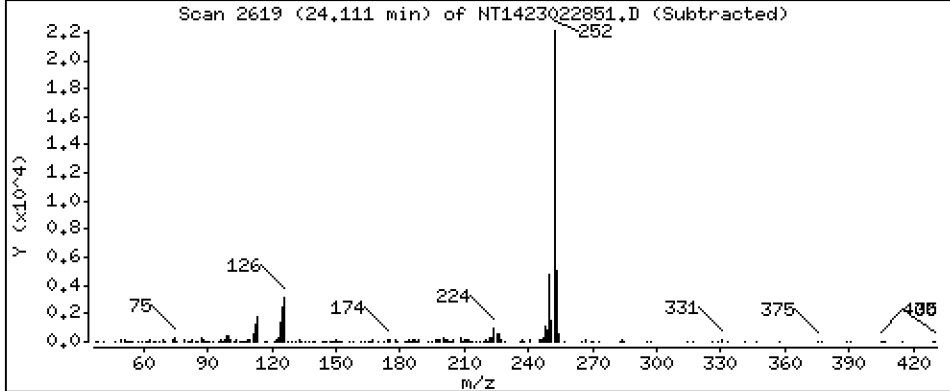
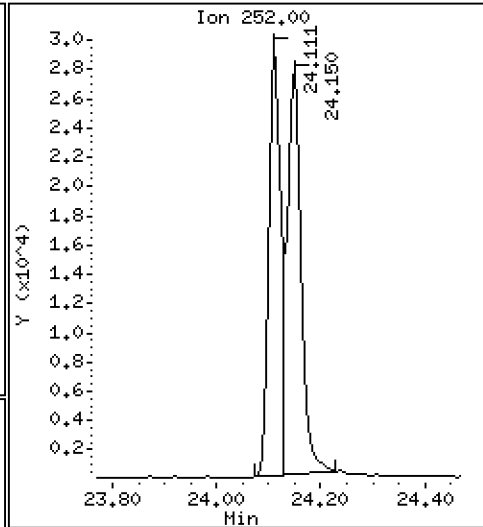
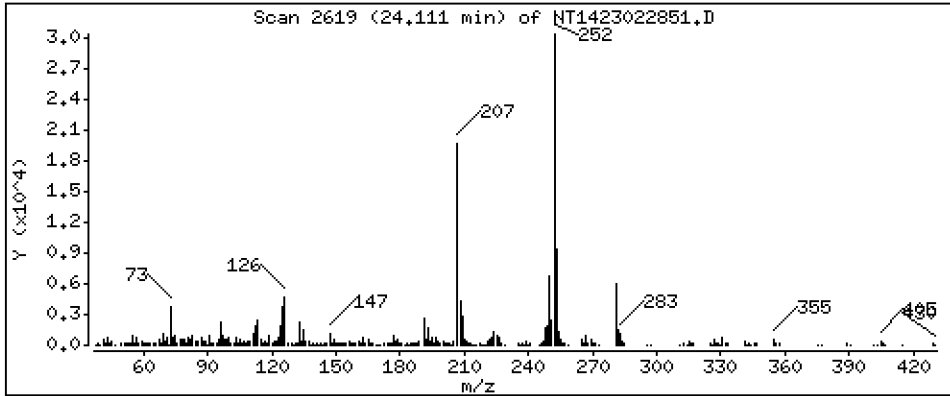
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,5764 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

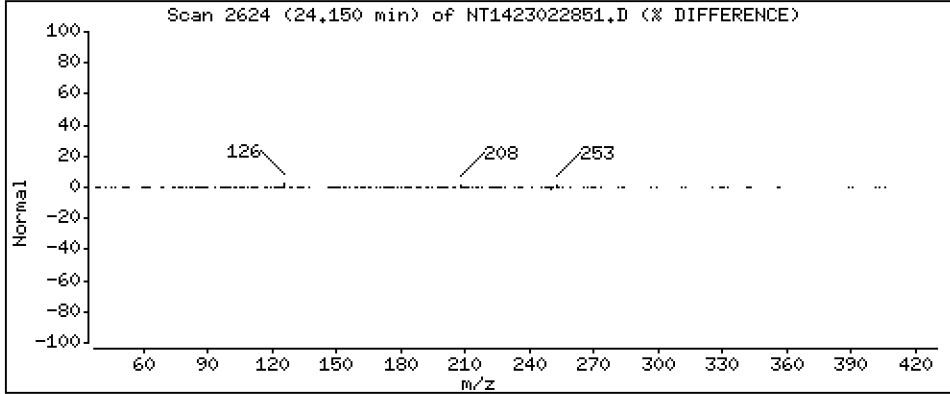
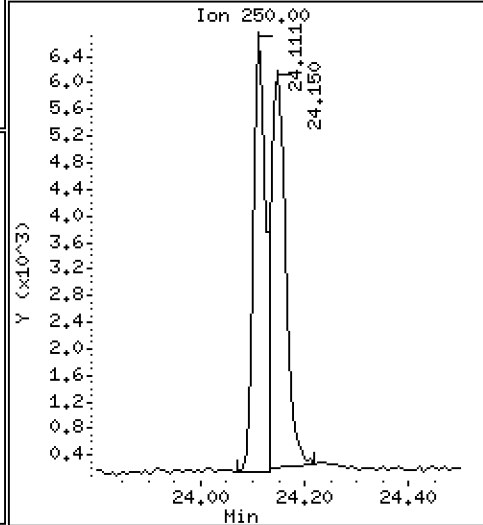
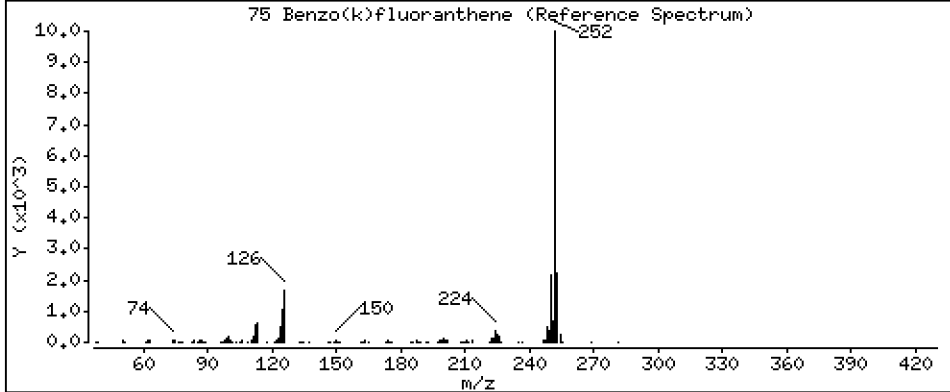
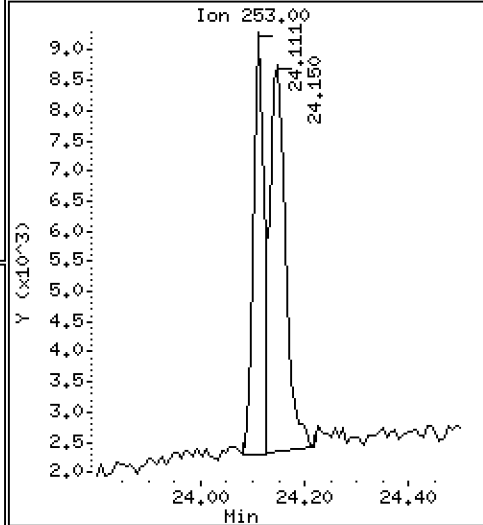
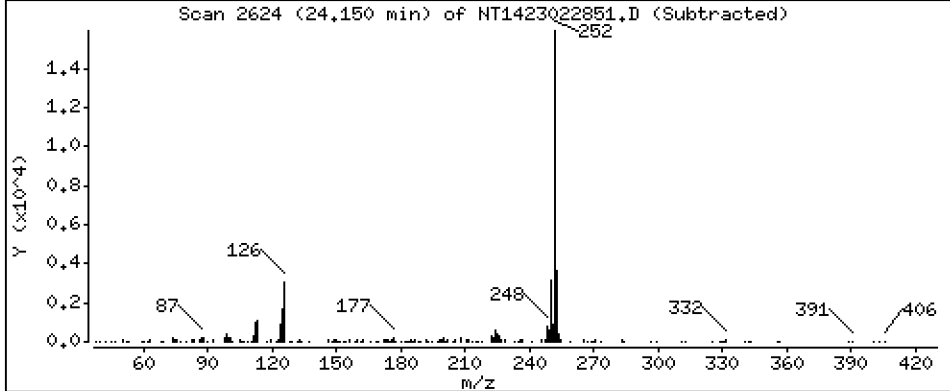
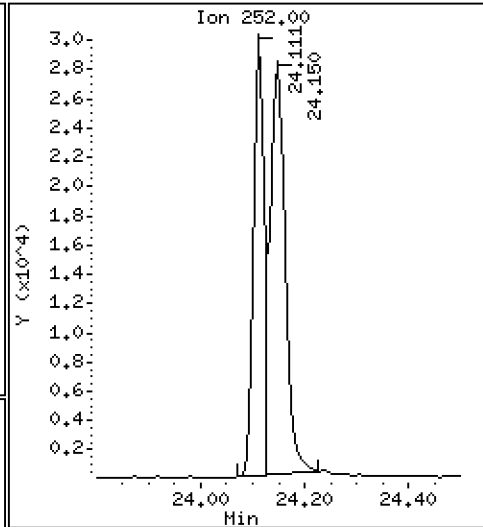
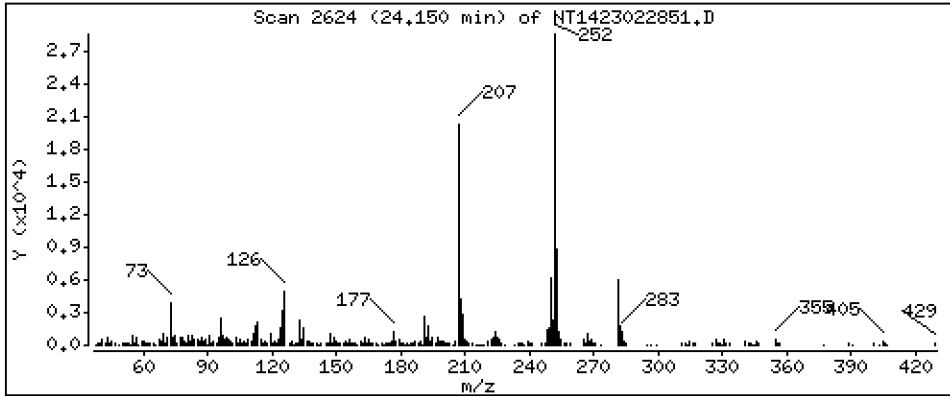
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,6743 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

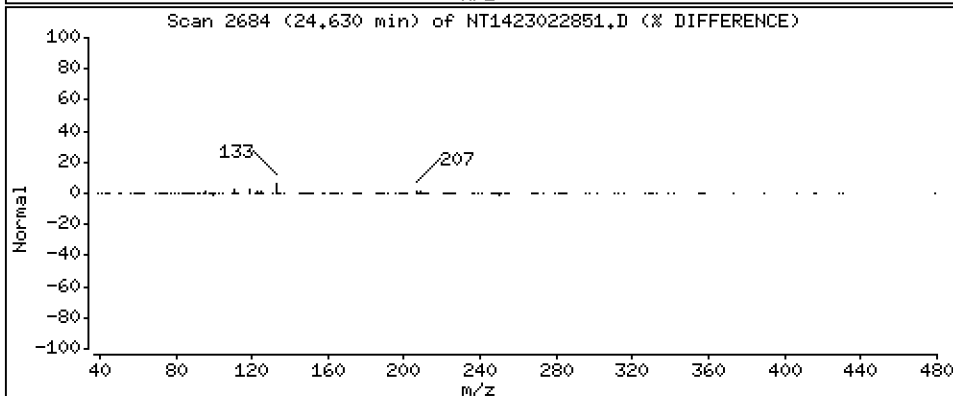
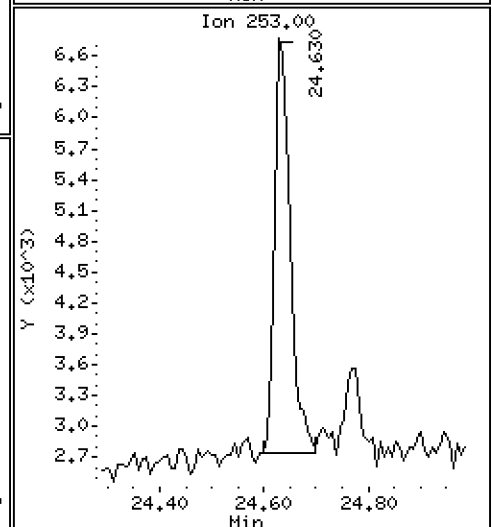
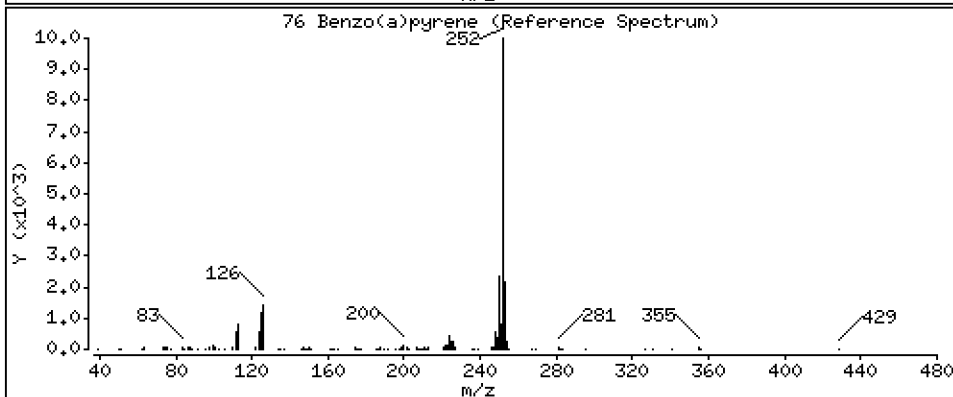
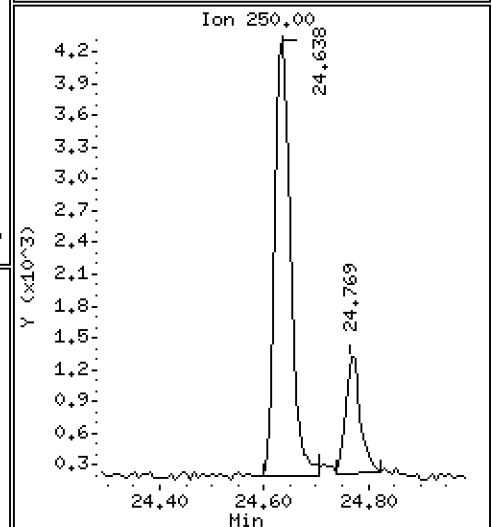
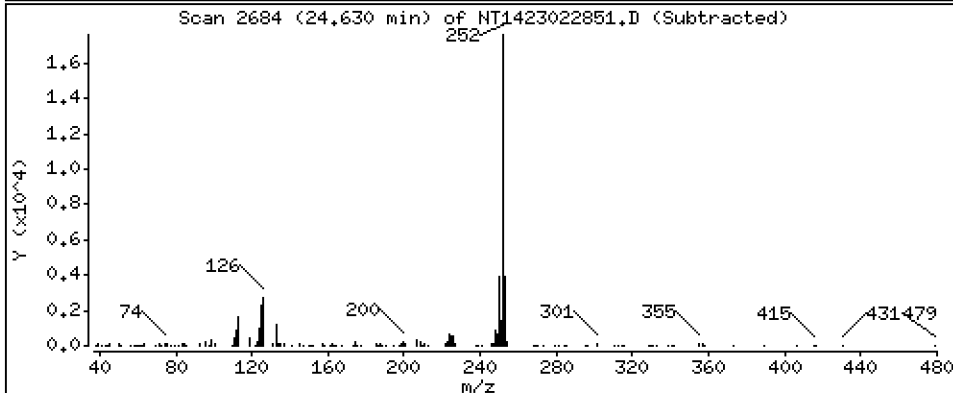
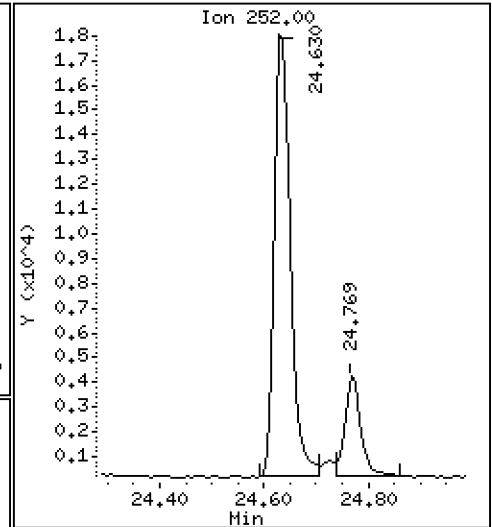
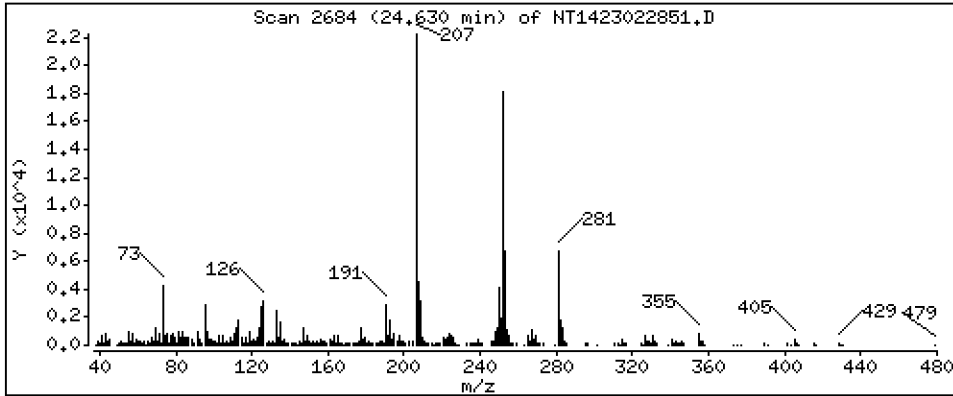
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,5413 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

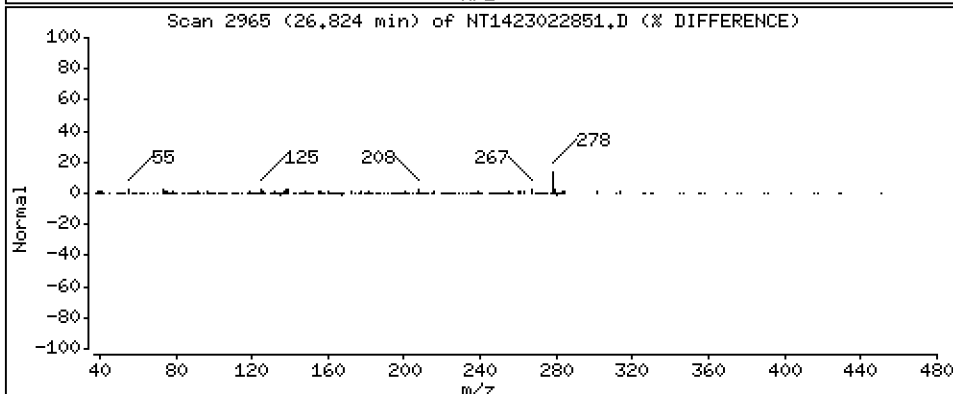
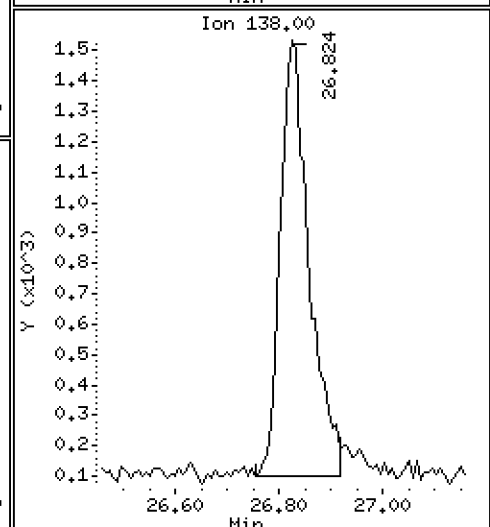
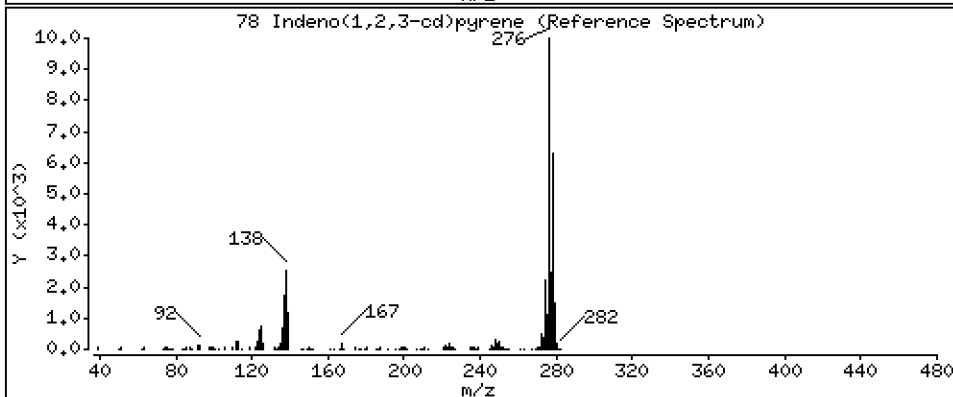
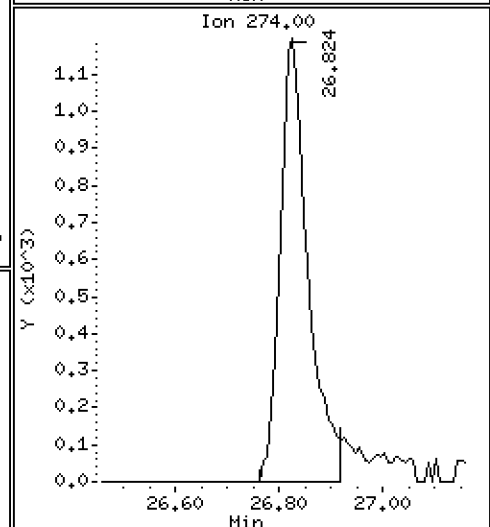
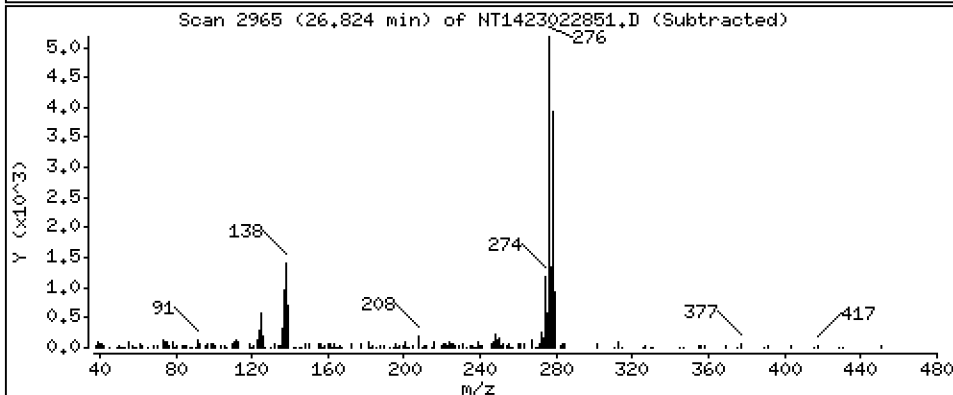
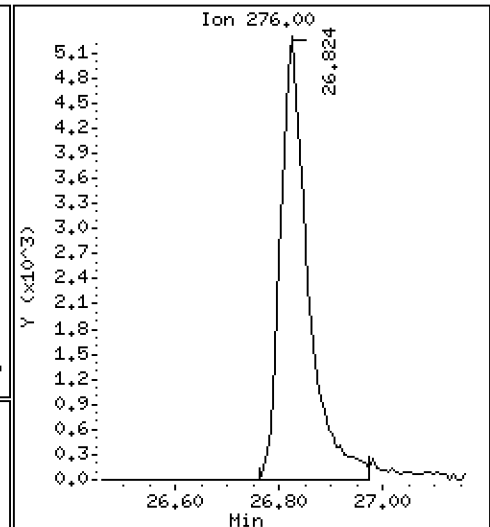
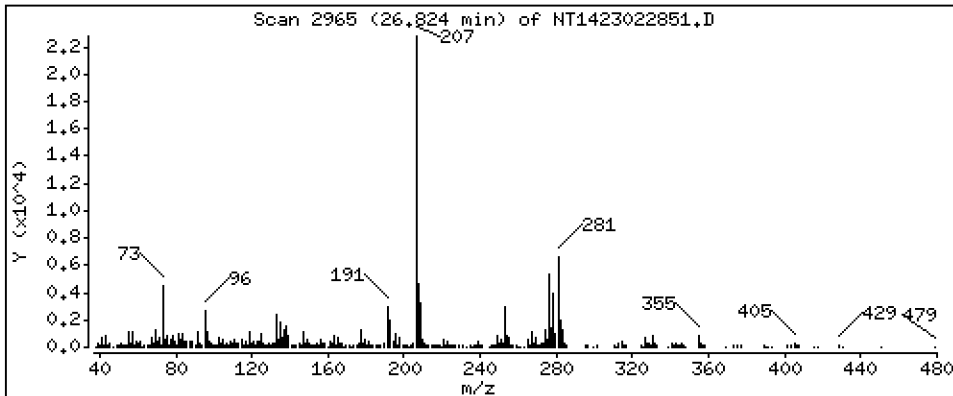
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,2283 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

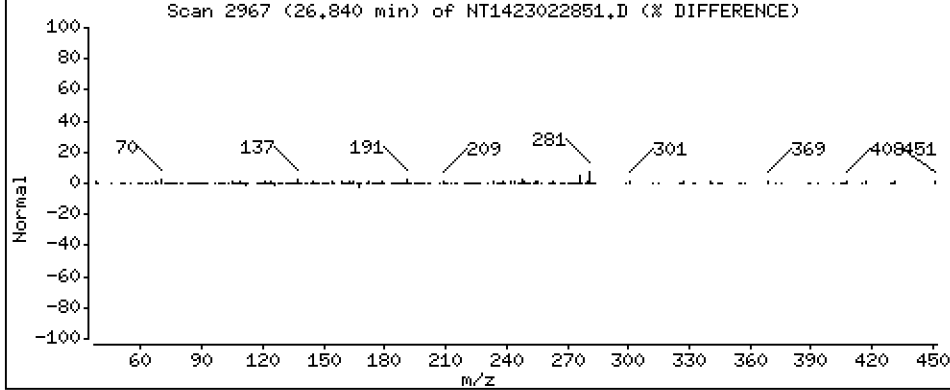
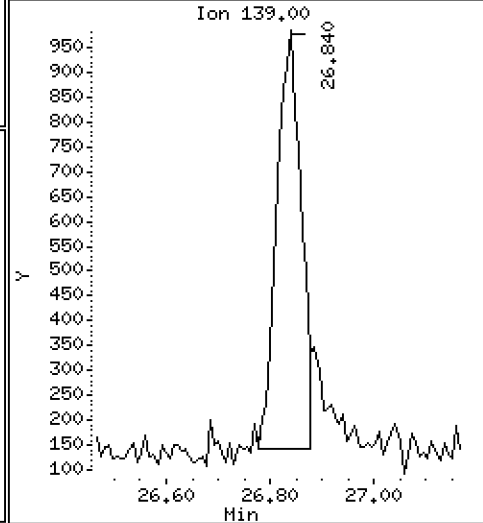
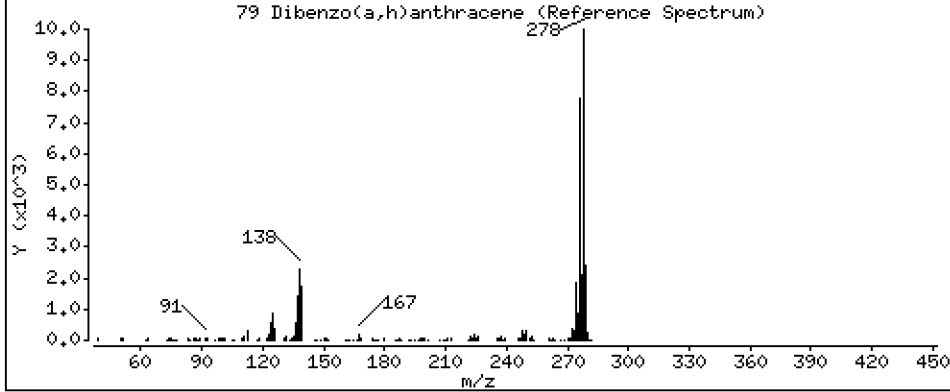
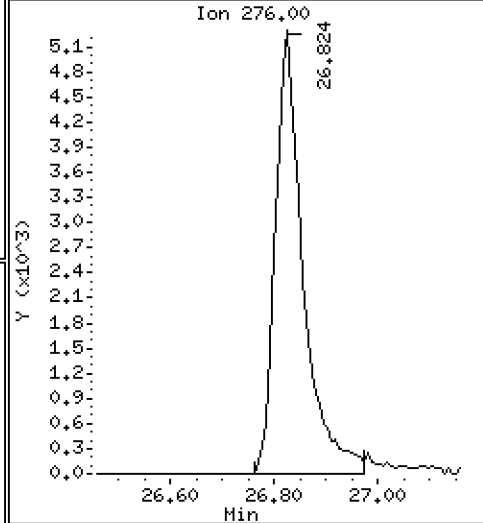
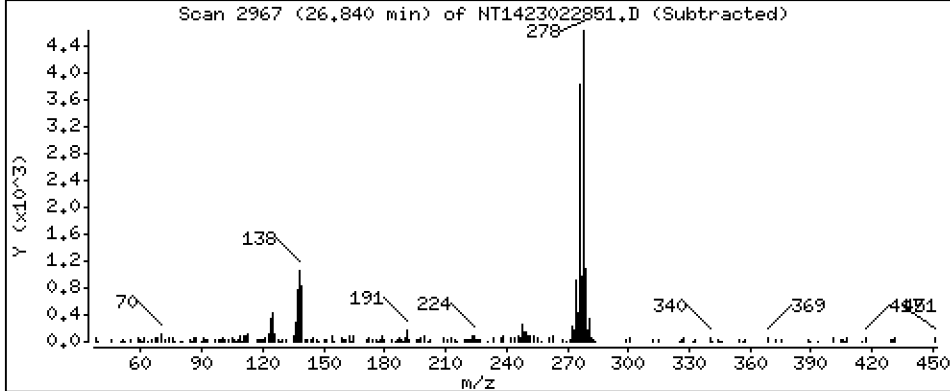
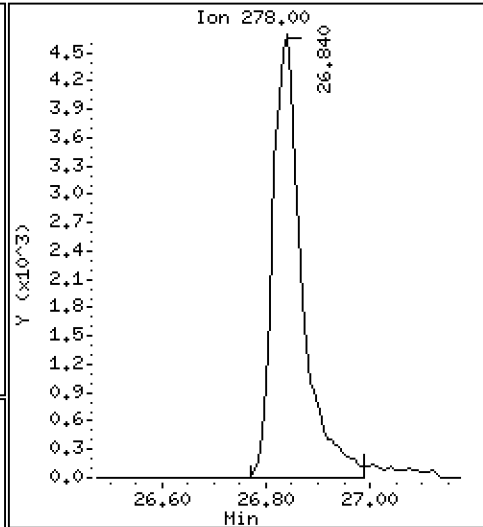
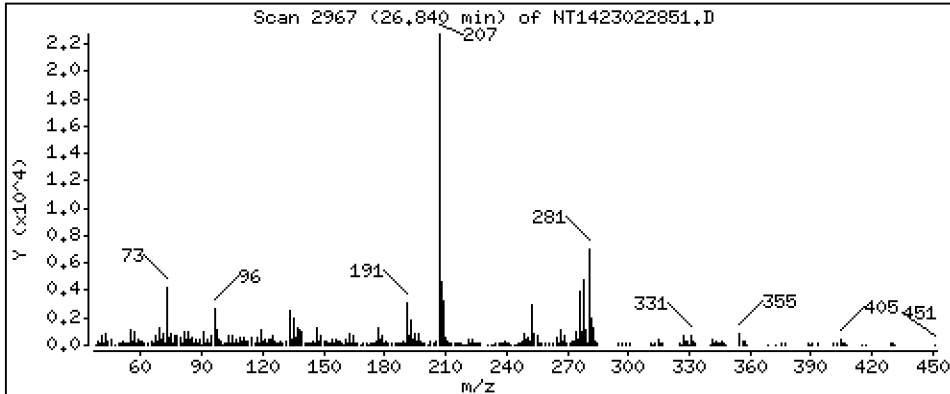
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2501 ug/mL





Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

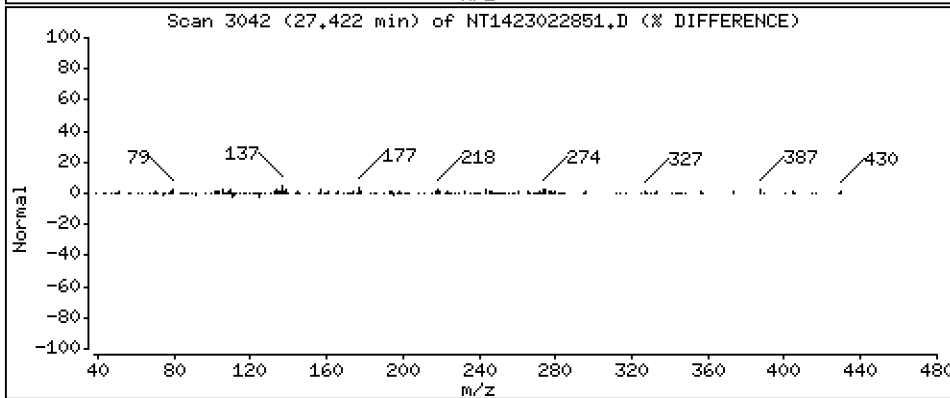
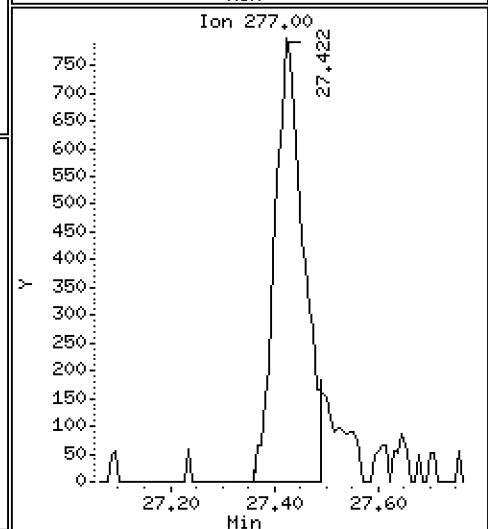
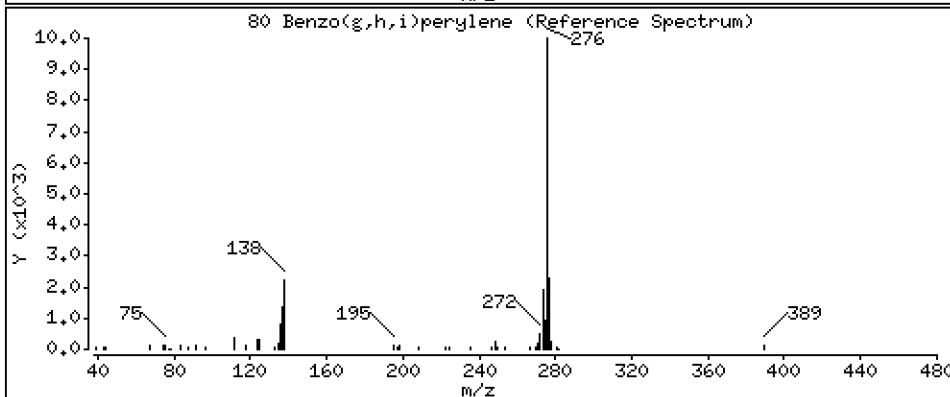
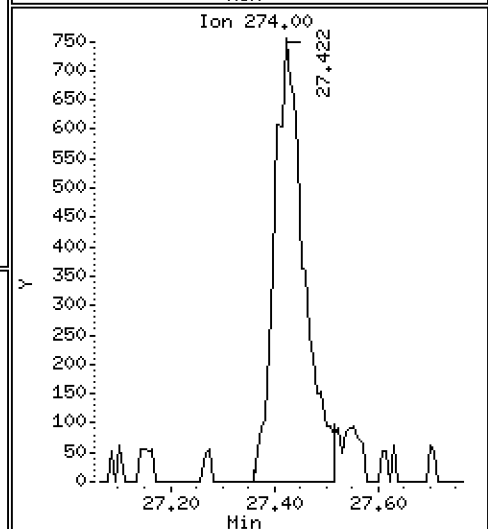
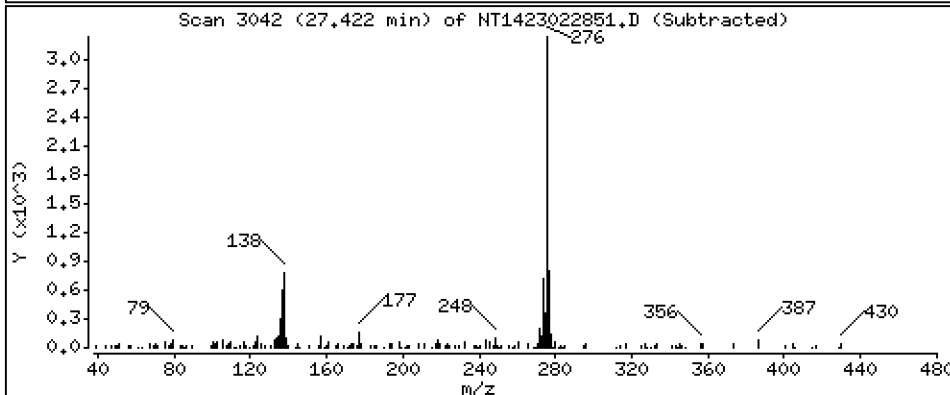
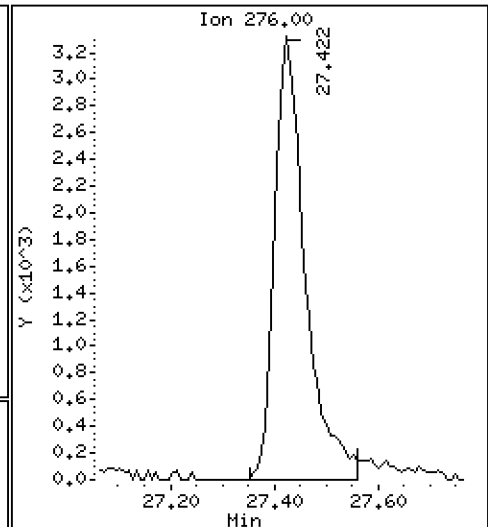
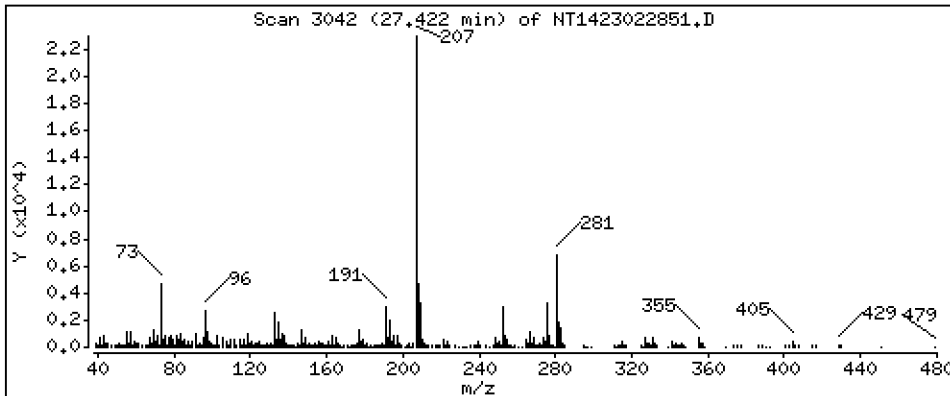
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,1825 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

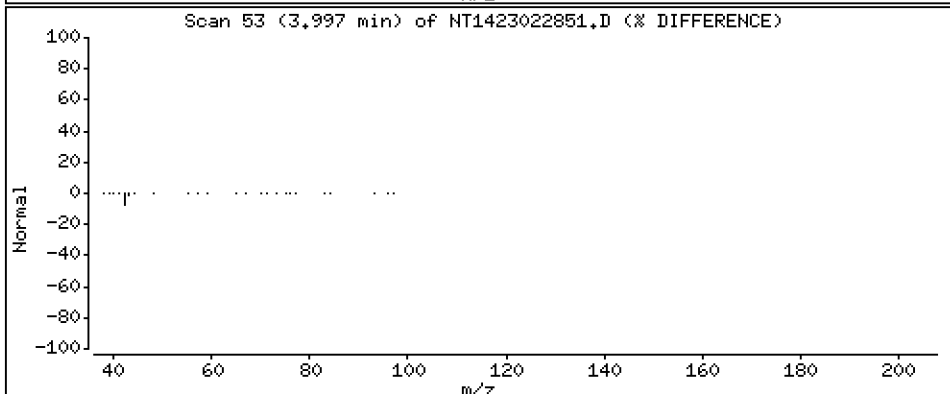
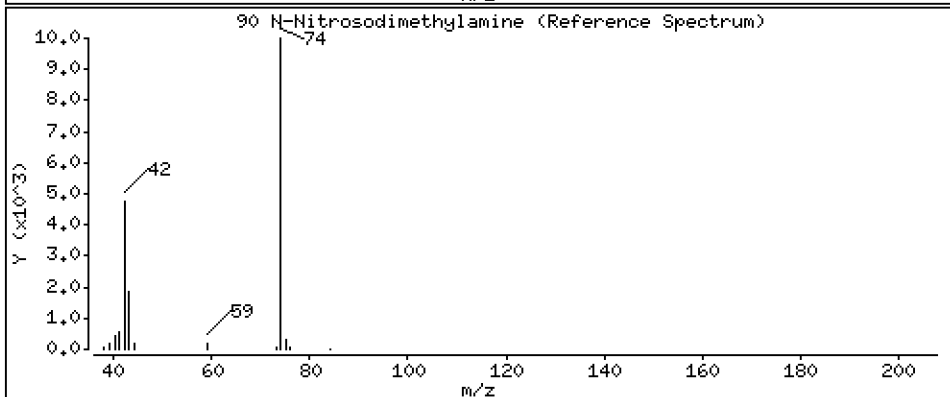
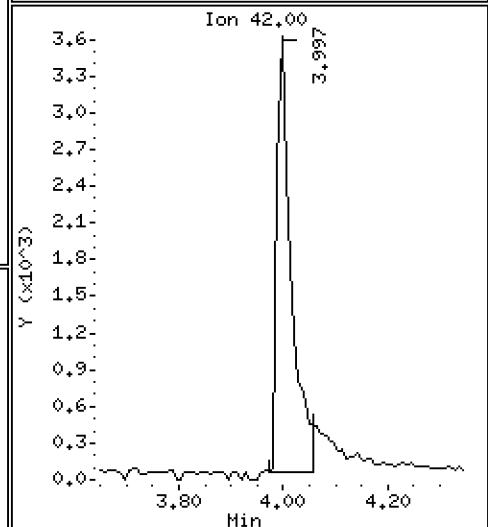
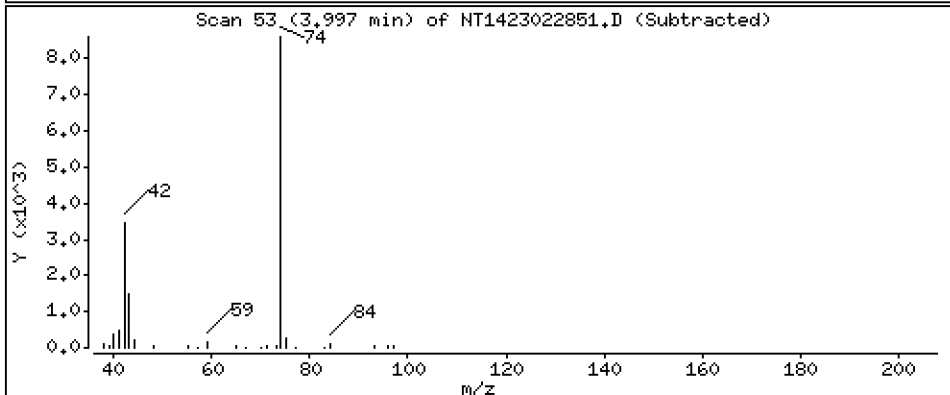
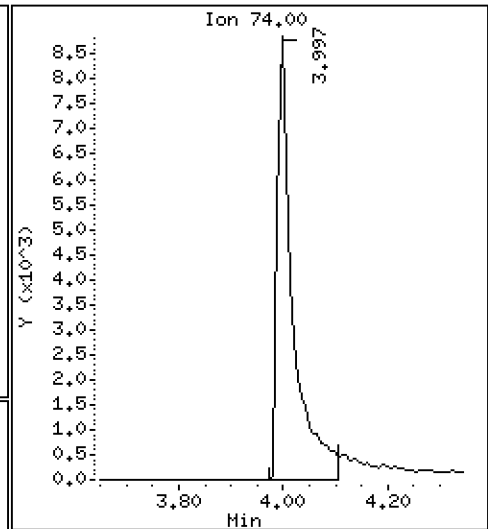
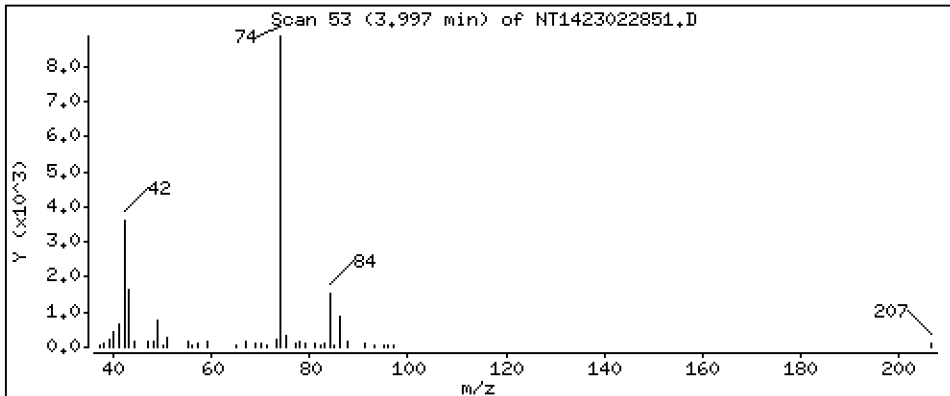
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 0.7828 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

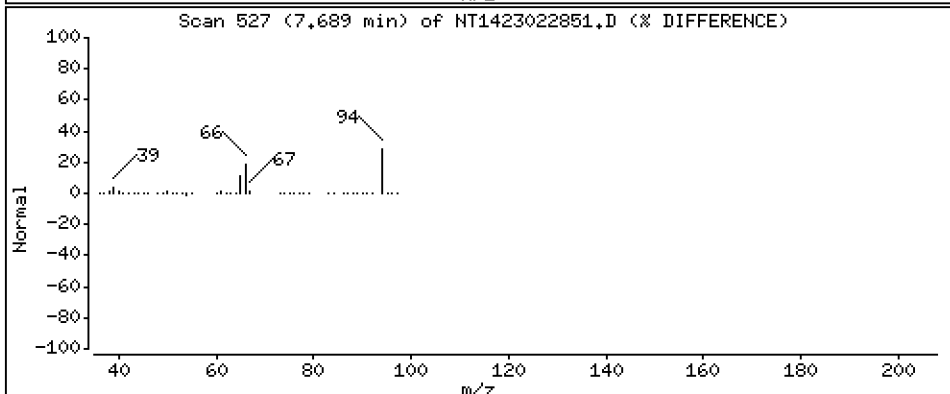
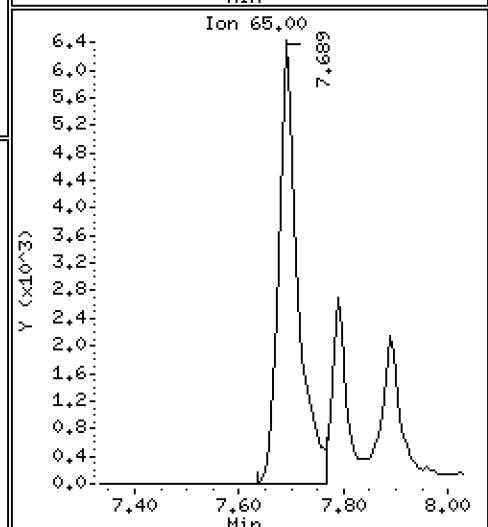
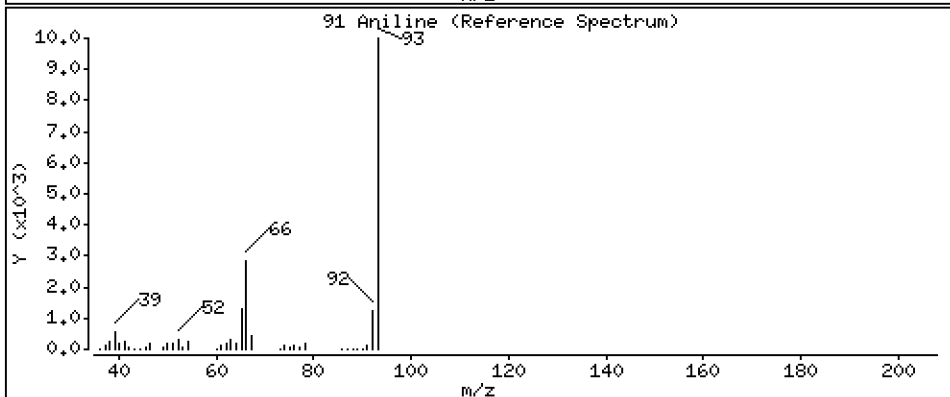
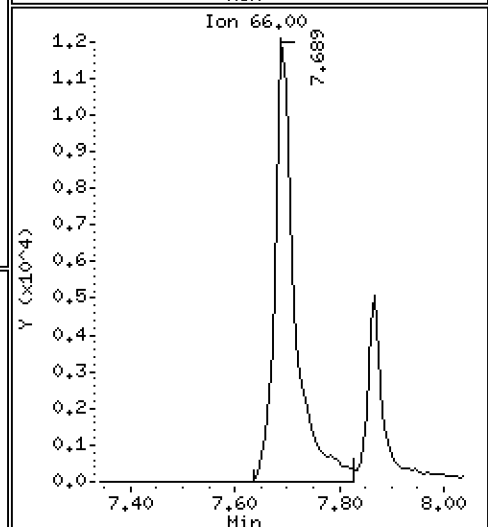
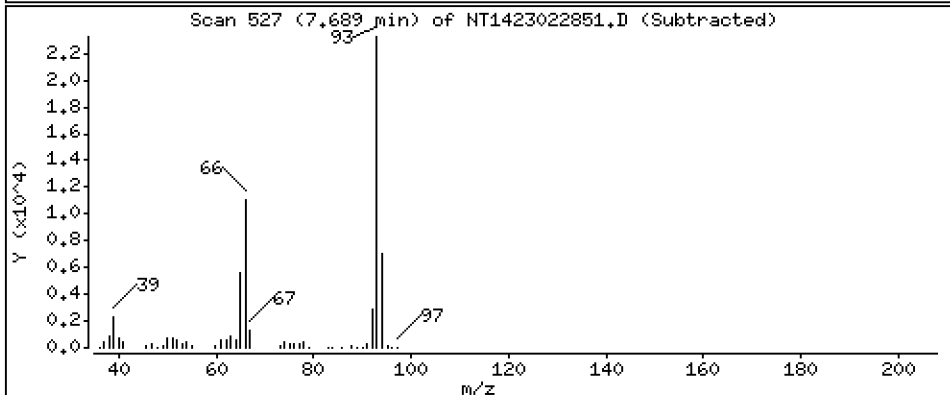
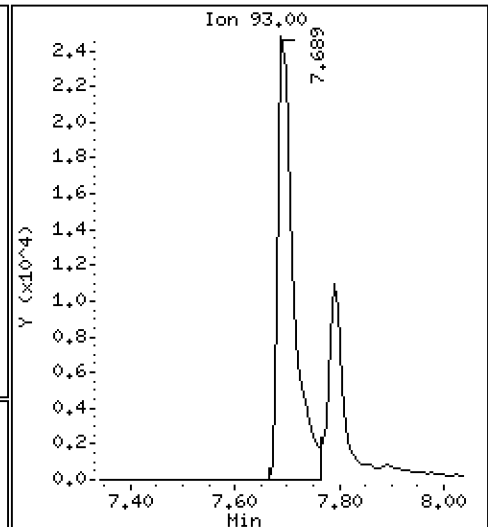
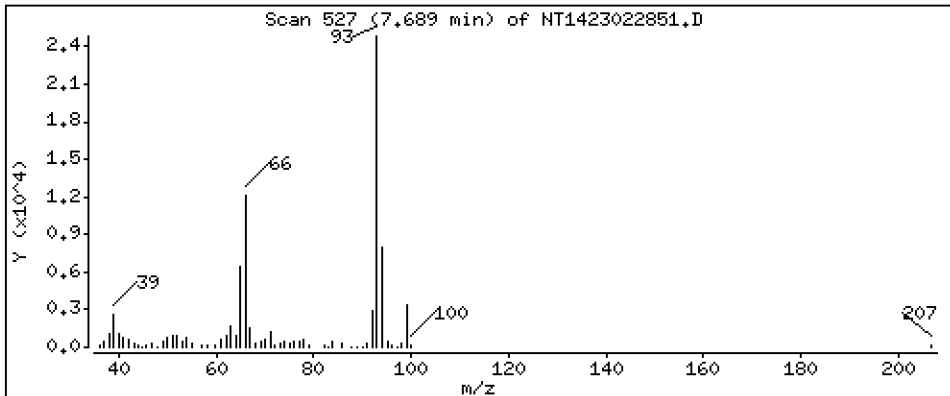
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.9602 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

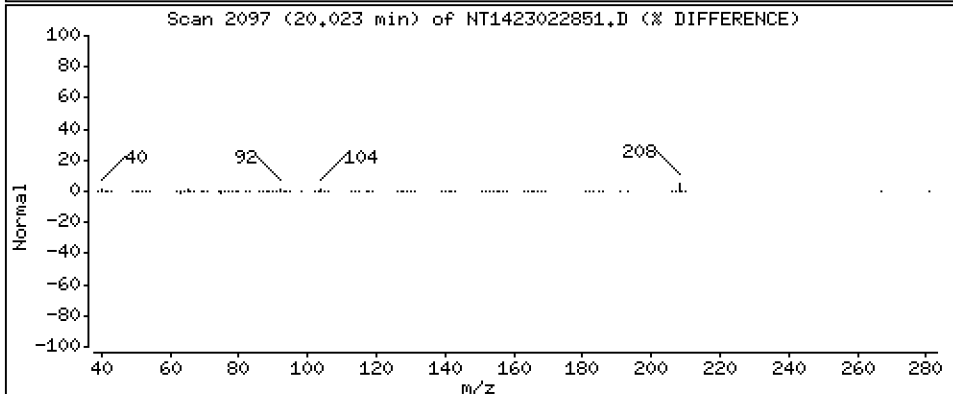
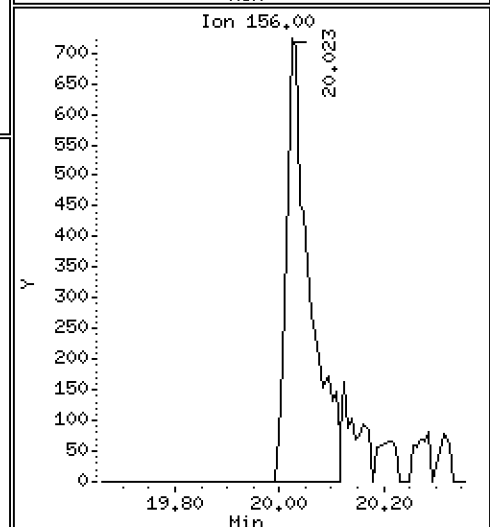
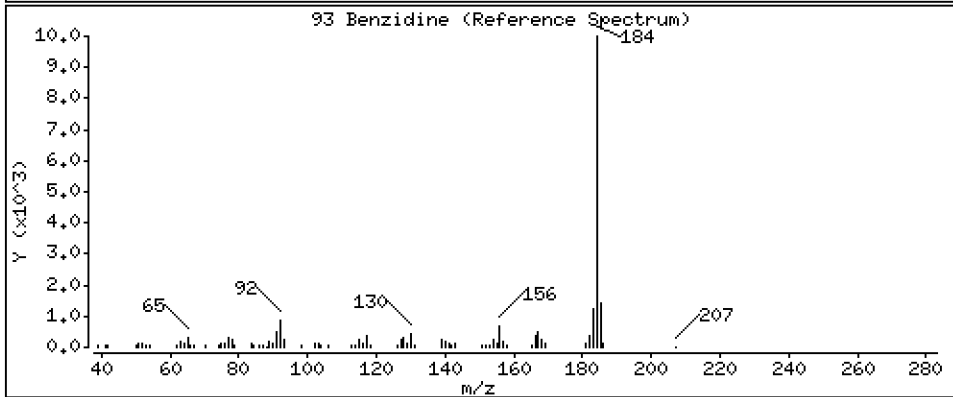
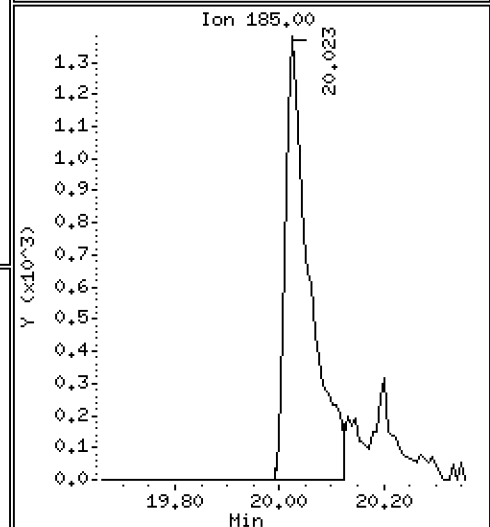
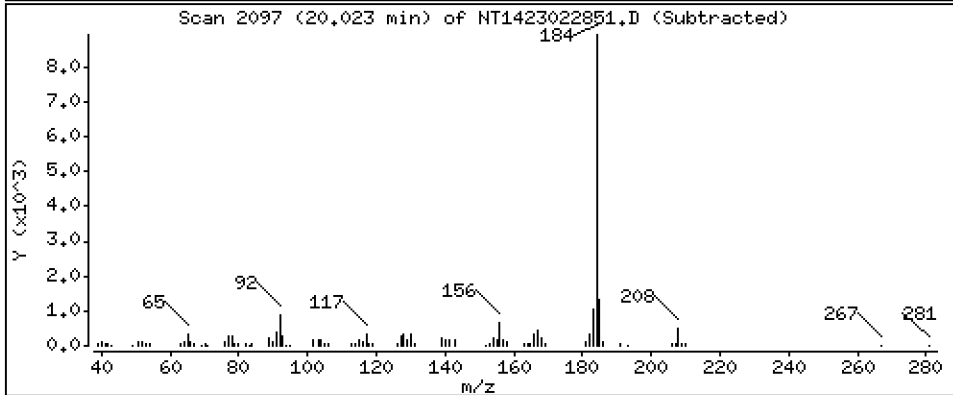
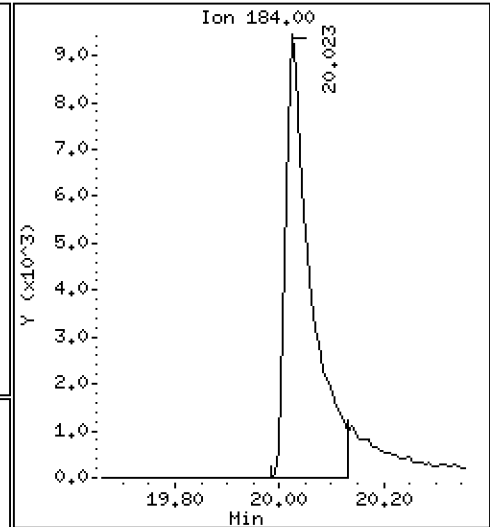
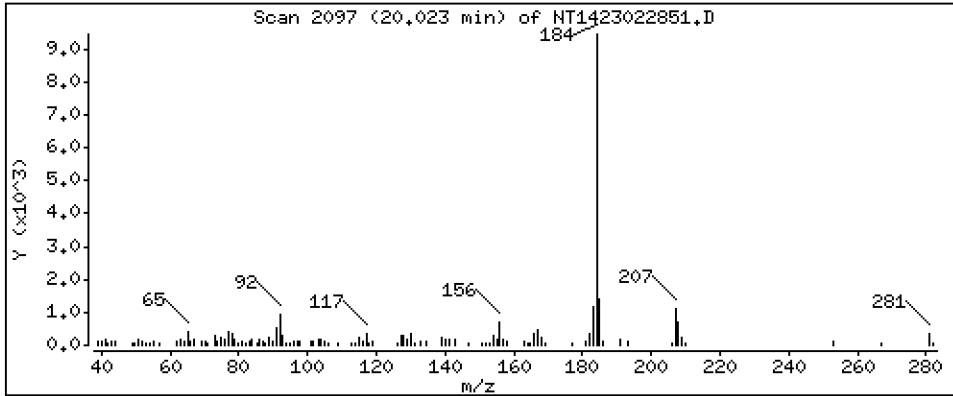
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

93 Benzidine

Concentration: 0.5720 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

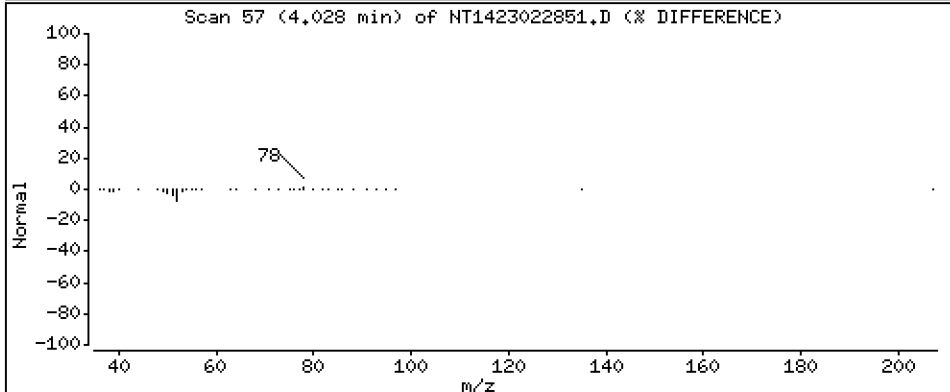
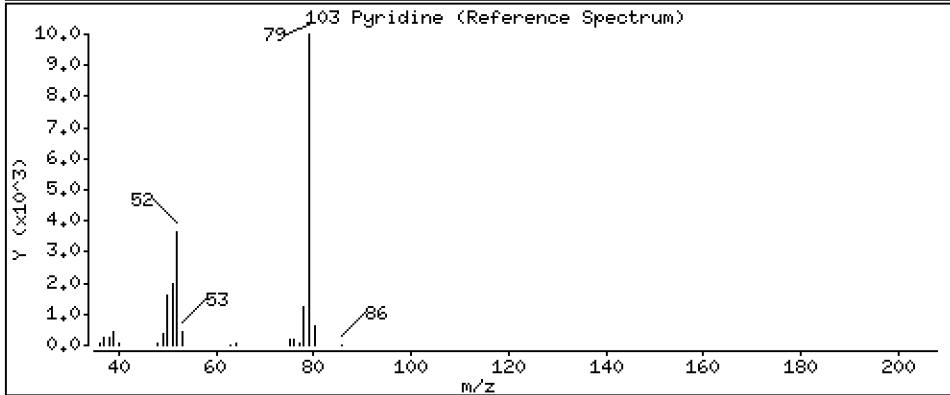
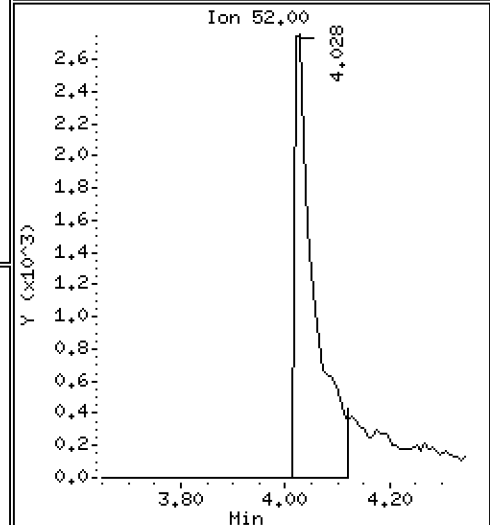
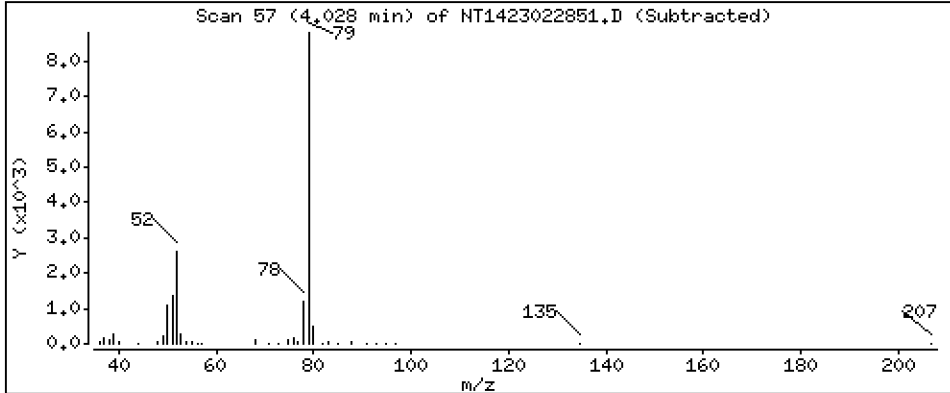
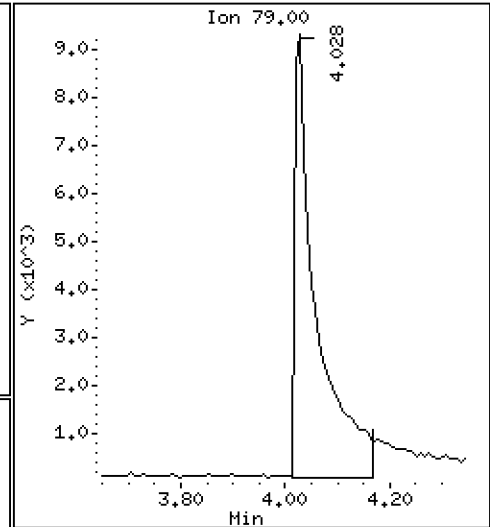
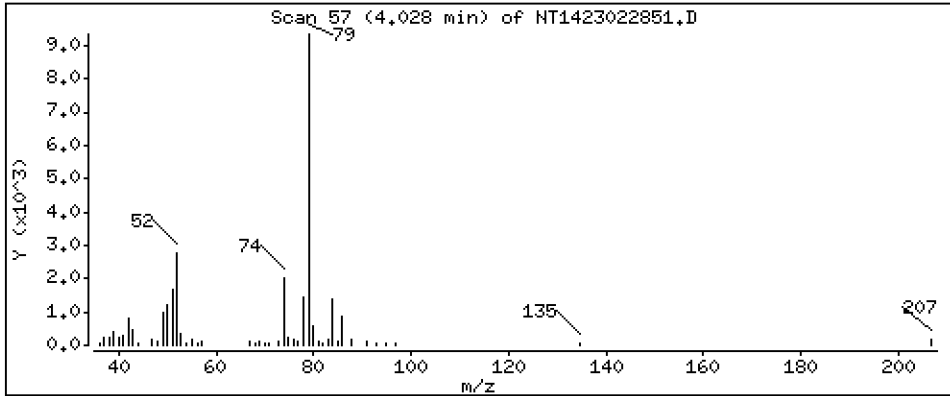
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,3993 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

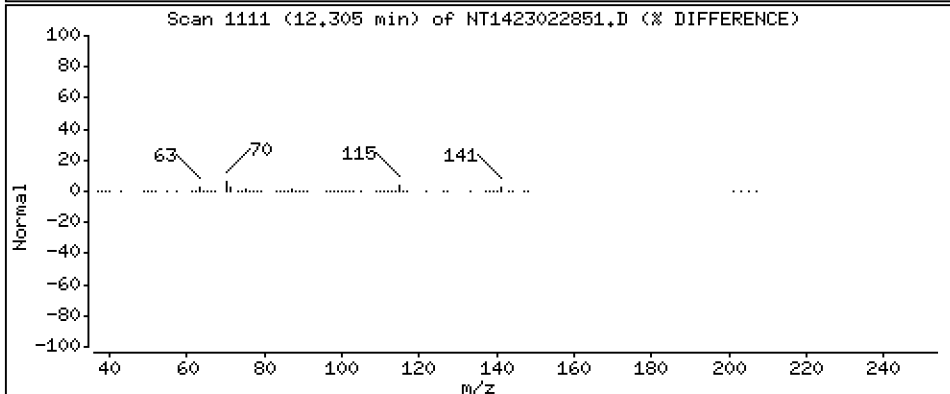
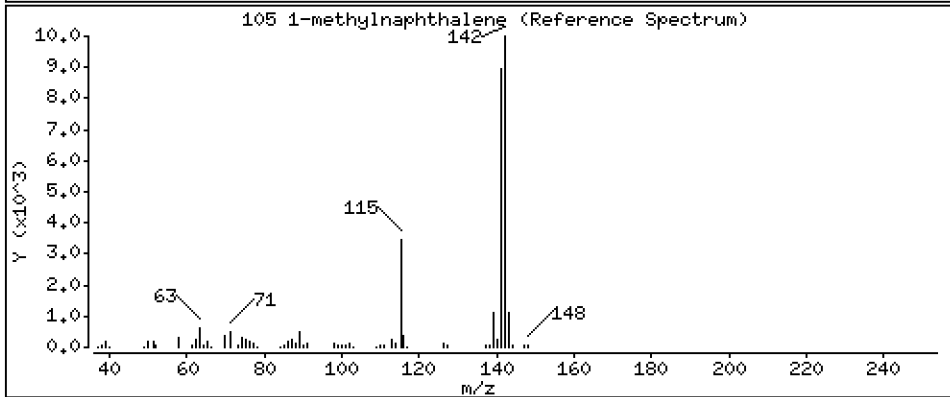
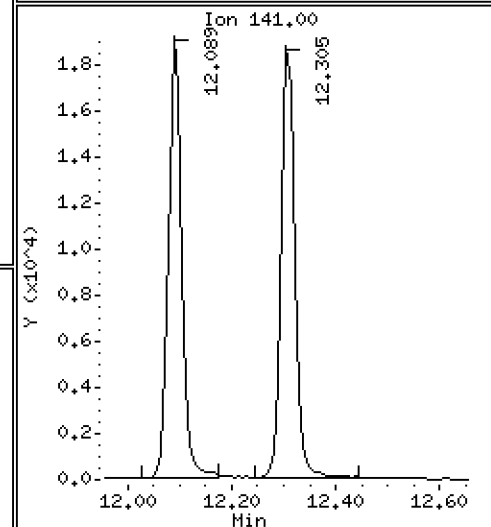
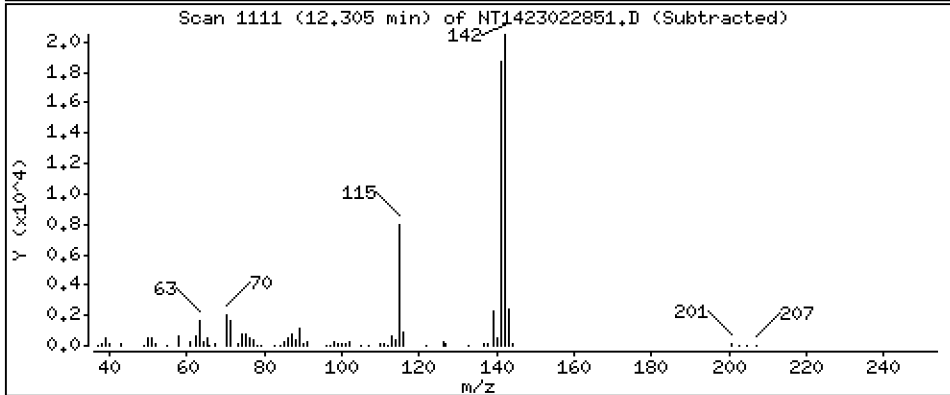
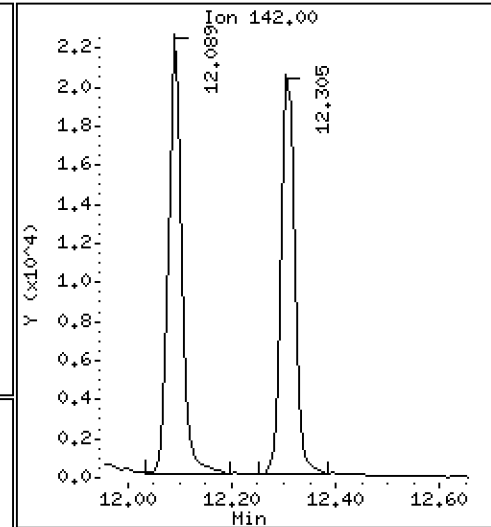
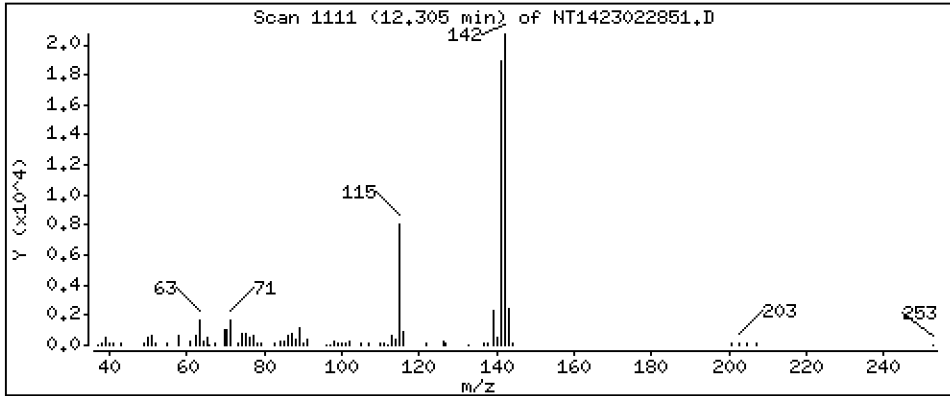
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,4888 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

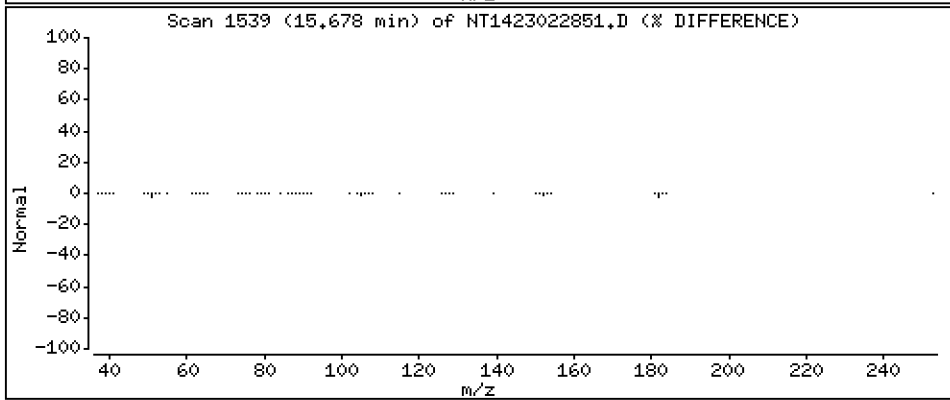
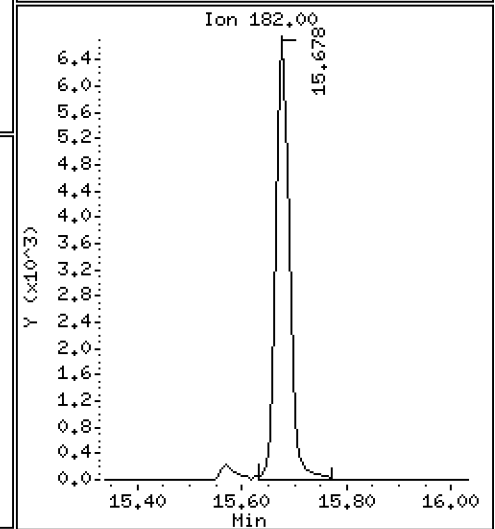
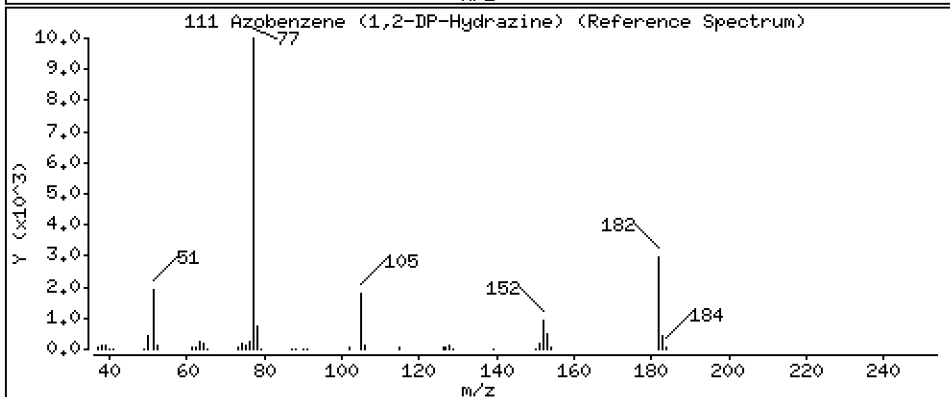
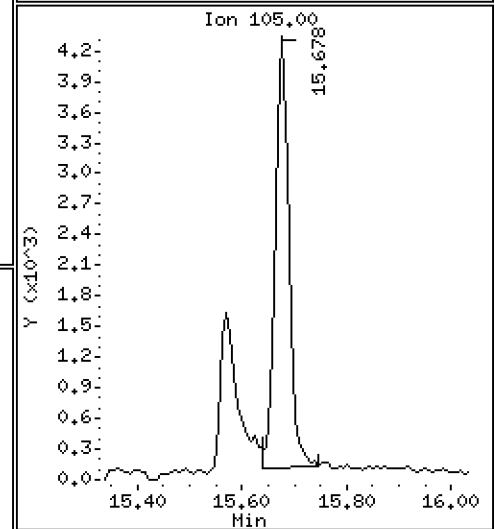
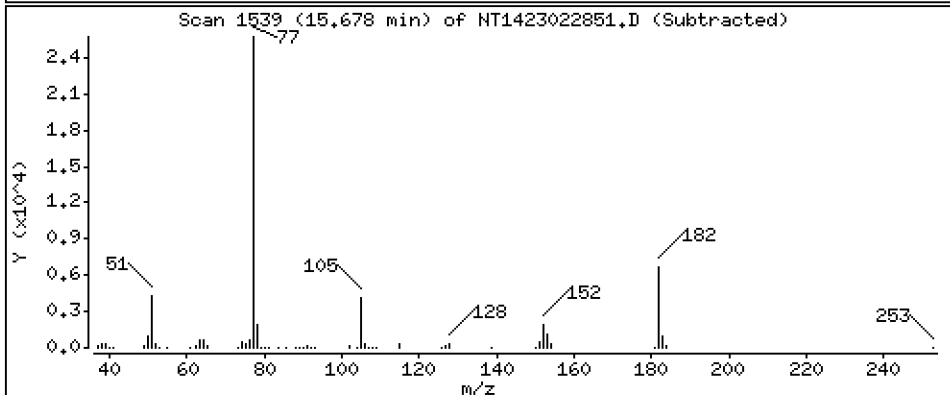
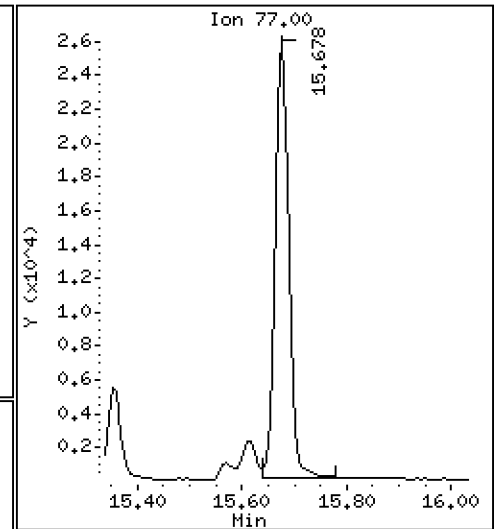
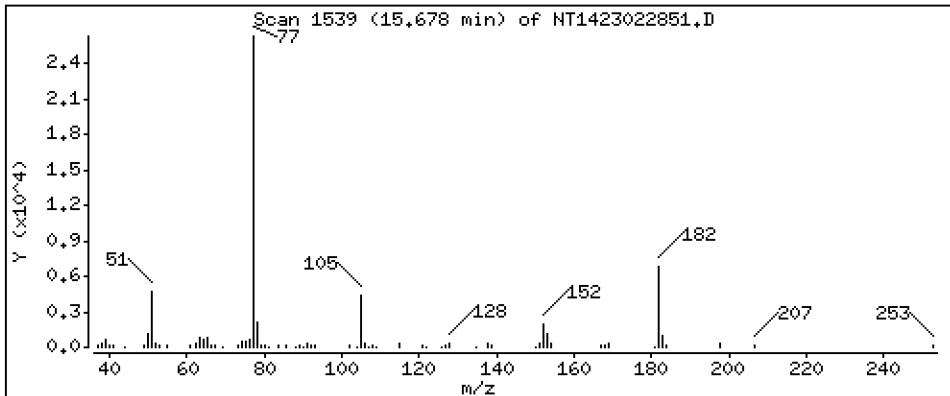
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,5802 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

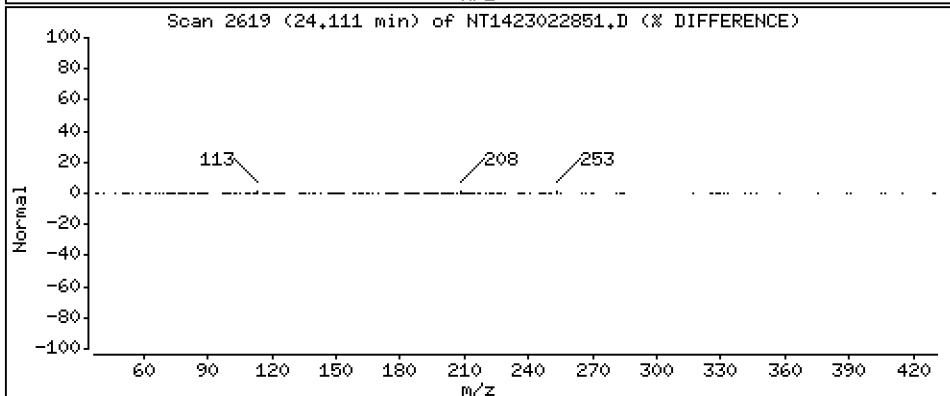
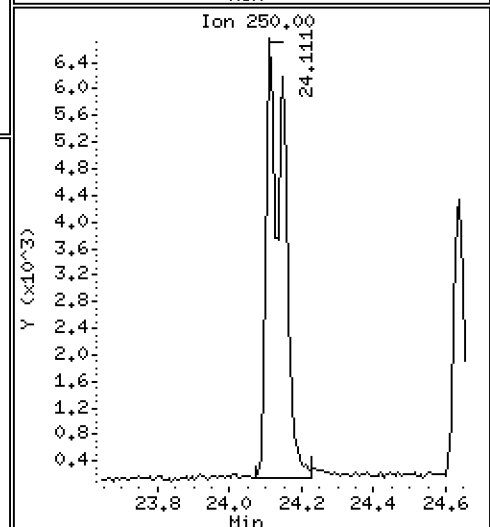
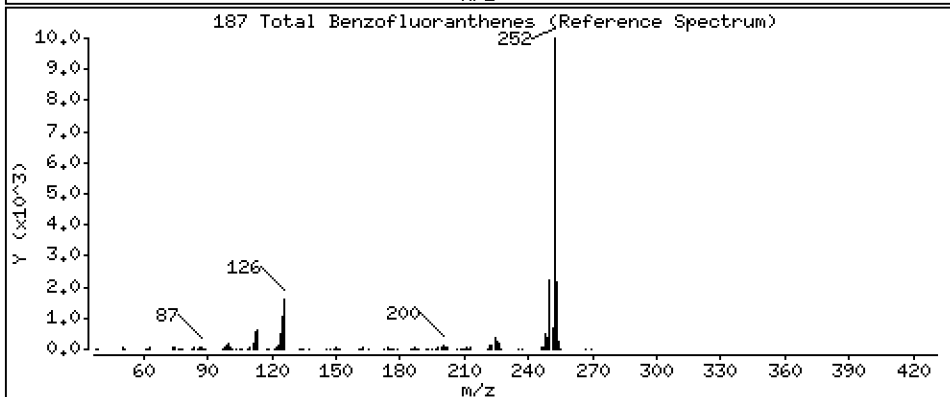
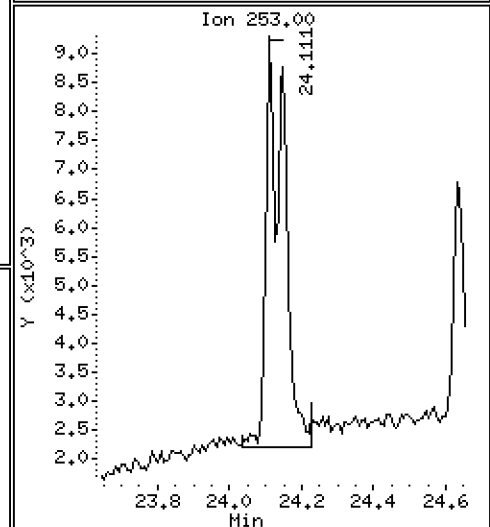
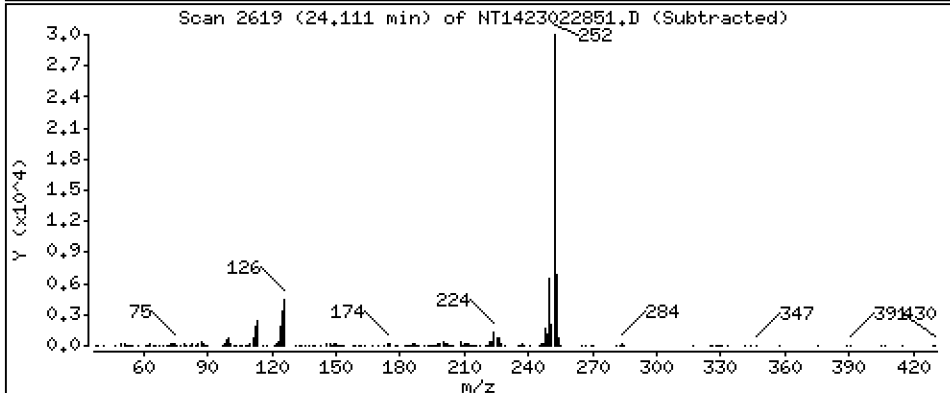
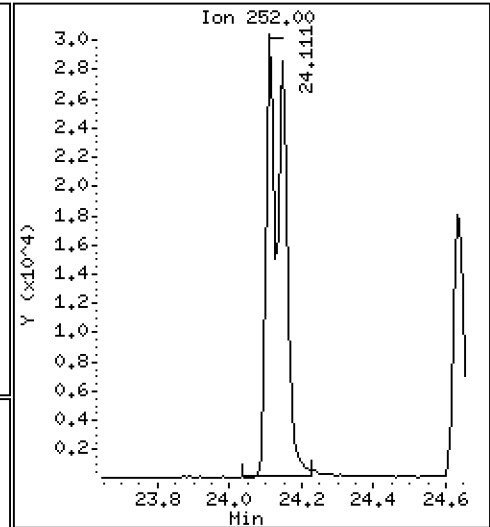
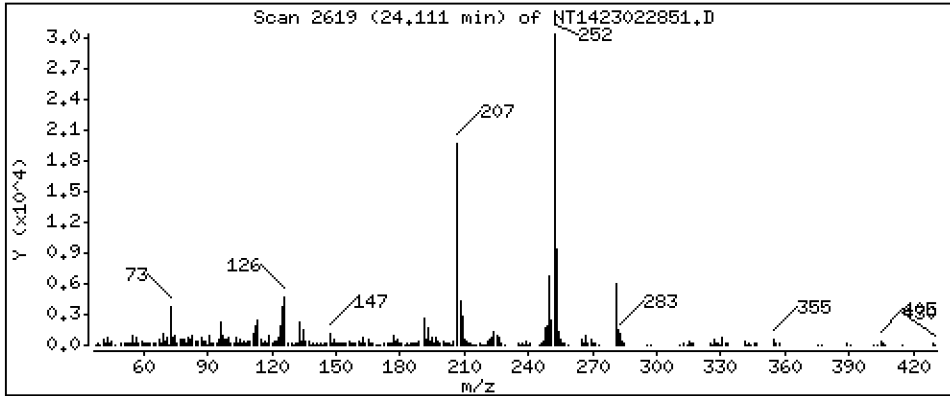
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,266 ug/mL





Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

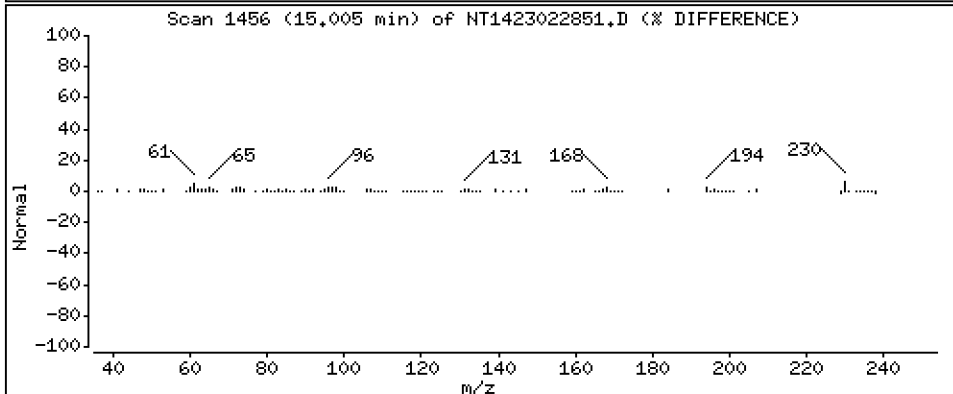
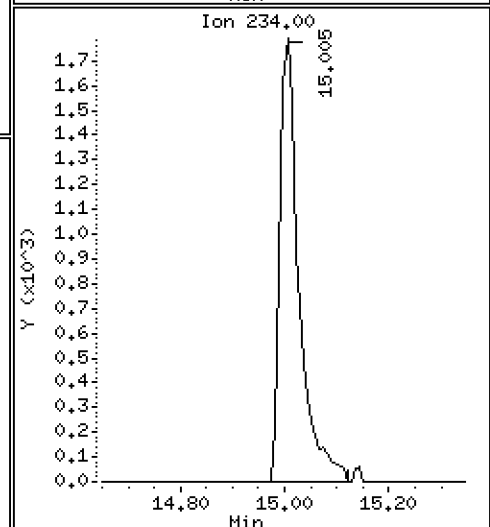
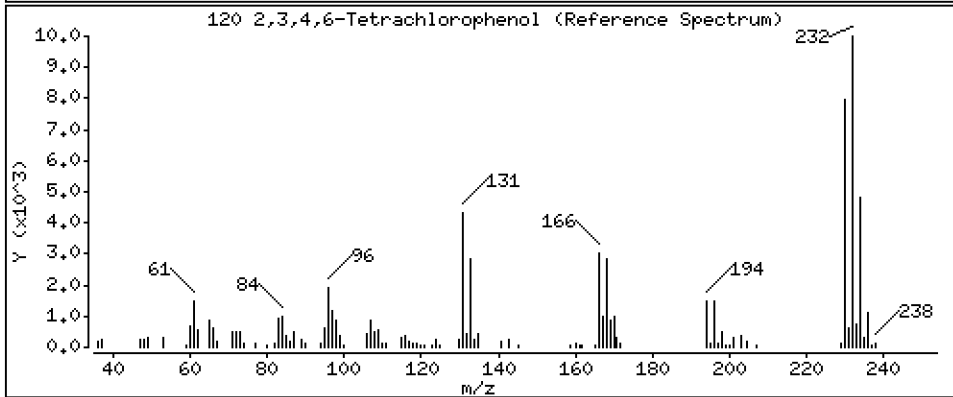
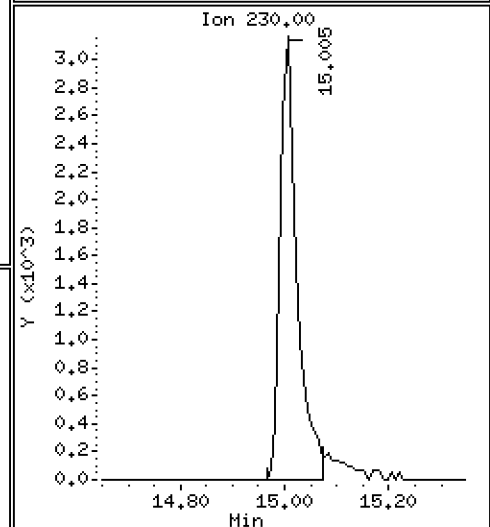
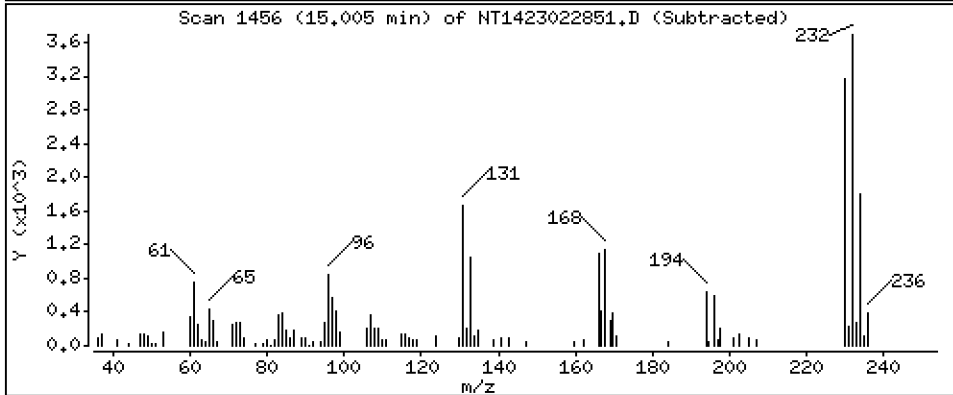
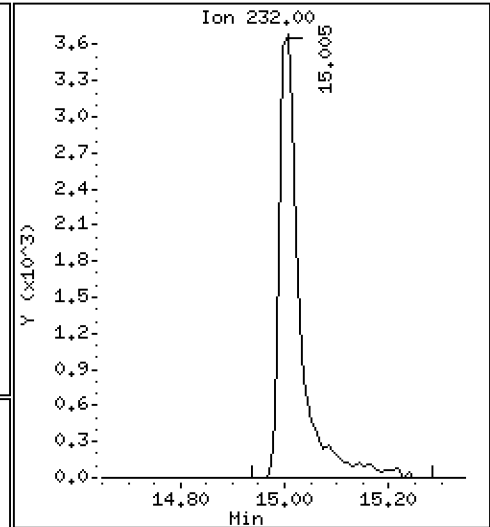
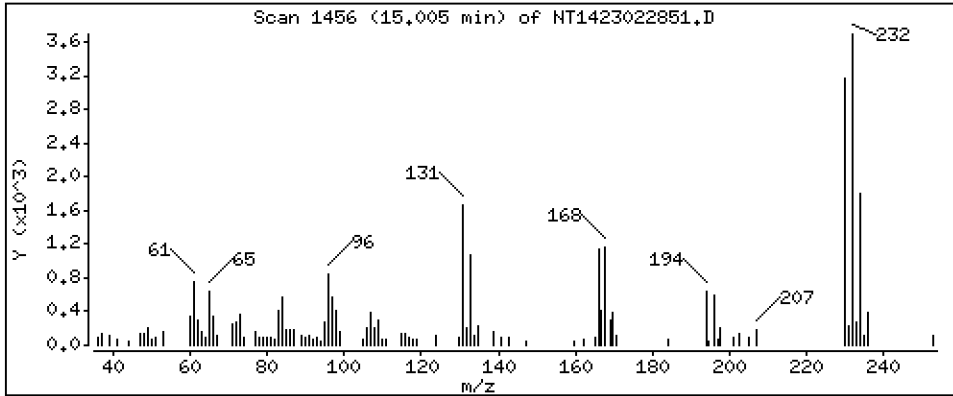
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,3973 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022851.D  
 Lab Smp Id: SLB0374-LCV6  
 Inj Date : 02-MAR-2023 07:40 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-LCV6  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 11-Mar-2023 13:20 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |              |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|--------------|
|                                 |       |     |        |        |         |          | ON-COLUMN      | FINAL        |
|                                 | MASS  |     |        |        |         |          | (ug/mL)        | (ug/mL)      |
| \$ 1 2-Fluorophenol             | 112   |     | 6.074  | 6.066  | (0.740) | 20984    | 0.69459        | 0.6946       |
| \$ 2 Phenol-d5                  | 99    |     | 7.658  | 7.650  | (0.933) | 34390    | 0.80177        | 0.8018       |
| 3 Phenol                        | 94    |     | 7.681  | 7.673  | (0.936) | 25539    | 0.49903        | 0.4990       |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 7.866  | 7.858  | (0.958) | 31022    | 0.85058        | 0.8506       |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.789  | 7.789  | (0.949) | 19564    | 0.54272        | 0.5427       |
| 6 2-Chlorophenol                | 128   |     | 7.889  | 7.889  | (0.961) | 20782    | 0.55129        | 0.5513       |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.137  | 8.137  | (0.991) | 22253    | 0.53566        | 0.5357       |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.207  | 8.207  | (1.000) | 111416   | 4.00000        |              |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.238  | 8.238  | (1.004) | 21862    | 0.53246        | 0.5325       |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 8.556  | 8.556  | (1.043) | 13982    | 0.50923        | 0.5092       |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.587  | 8.579  | (1.046) | 20682    | 0.52532        | 0.5253       |
| 11 Benzyl alcohol               | 108   |     | 8.626  | 8.517  | (1.051) | 6195     | 0.27759        | 0.2776 (M)   |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.797  | 8.797  | (1.072) | 5705     | 0.53732        | 0.5373 (M)   |
| 13 2-Methylphenol               | 108   |     | 8.766  | 8.758  | (1.068) | 16531    | 0.51131        | 0.5113       |
| 17 Hexachloroethane             | 117   |     | 9.162  | 9.162  | (1.116) | 6013     | 0.38997        | 0.3900       |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.053  | 9.061  | (1.103) | 15082    | 0.61267        | 0.6127       |
| 15 4-Methylphenol               | 108   |     | 9.045  | 9.037  | (1.102) | 15475    | 0.41121        | 0.4112       |
| \$ 18 Nitrobenzene-d5           | 82    |     | 9.301  | 9.293  | (0.873) | 21791    | 0.55223        | 0.5522       |
| 19 Nitrobenzene                 | 77    |     | 9.332  | 9.332  | (0.876) | 20577    | 0.54266        | 0.5427       |
| 20 Isophorone                   | 82    |     | 9.775  | 9.782  | (0.917) | 29540    | 0.49896        | 0.4990       |
| 21 2-Nitrophenol                | 139   |     | 9.961  | 9.953  | (0.935) | 9198     | 0.46853        | 0.4685 (M)   |
| 22 2,4-Dimethylphenol           | 107   |     | 10.062 | 10.054 | (0.944) | 35702    | 1.03278        | 1.033        |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.232 | 10.232 | (0.960) | 19117    | 0.50146        | 0.5015       |
| 24 Benzoic acid                 | 105   |     | 10.657 | 10.372 | (1.000) | 14897    | 1.08744        | 1.087 (M)    |
| 25 2,4-Dichlorophenol           | 162   |     | 10.434 | 10.418 | (0.979) | 27138    | 0.77567        | 0.7757       |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.580 | 10.580 | (0.993) | 19105    | 0.48902        | 0.4890       |
| * 27 Naphthalene-d8             | 136   |     | 10.657 | 10.665 | (1.000) | 403388   | 4.00000        |              |
| 28 Naphthalene                  | 128   |     | 10.696 | 10.704 | (1.004) | 56987    | 0.52962        | 0.5296       |
| 29 4-Chloroaniline              | 127   |     | 10.874 | 10.866 | (1.020) | 39723    | 0.86313        | 0.8631       |
| 30 Hexachlorobutadiene          | 225   |     | 11.074 | 11.074 | (1.039) | 10467    | 0.43906        | 0.4391       |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.872 | 11.856 | (1.114) | 30814    | 0.99029        | 0.9903       |
| 32 2-Methylnaphthalene          | 142   |     | 12.088 | 12.088 | (1.134) | 39522    | 0.49600        | 0.4960       |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.553 | 12.553 | (0.881) | 145      | 0.00611        | 0.006113 (M) |

| Compounds                         | QUANT SIG |        |        |         |          | CONCENTRATIONS       |                  |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 12.731 | 12.731 | (0.894) | 20334    | 0.92054              | 0.9205           |
| 35 2,4,5-Trichlorophenol          | 196       | 12.823 | 12.808 | (0.900) | 22272    | 0.93253              | 0.9325           |
| § 36 2-Fluorobiphenyl             | 172       | 12.885 | 12.885 | (0.904) | 46152    | 0.52438              | 0.5244           |
| 37 2-Chloronaphthalene            | 162       | 13.071 | 13.071 | (0.917) | 36743    | 0.52078              | 0.5208           |
| 38 2-Nitroaniline                 | 65        | 13.365 | 13.365 | (0.938) | 20152    | 1.09516              | 1.095            |
| 39 Dimethylphthalate              | 163       | 13.806 | 13.806 | (0.969) | 39572    | 0.55636              | 0.5564           |
| 40 Acenaphthylene                 | 152       | 13.930 | 13.930 | (0.978) | 58606    | 0.56609              | 0.5661           |
| 41 2,6-Dinitrotoluene             | 165       | 13.930 | 13.938 | (0.978) | 17231    | 1.03380              | 1.034            |
| * 42 Acenaphthene-d10             | 164       | 14.247 | 14.247 | (1.000) | 226130   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138       | 14.224 | 14.216 | (0.998) | 13276    | 0.77714              | 0.7771           |
| 44 Acenaphthene                   | 153       | 14.309 | 14.309 | (1.004) | 35129    | 0.52998              | 0.5300           |
| 45 2,4-Dinitrophenol              | 184       | 14.503 | 14.425 | (1.018) | 3828     | 0.36319              | 0.3632 (M)       |
| 46 Dibenzofuran                   | 168       | 14.634 | 14.642 | (1.027) | 53071    | 0.50319              | 0.5032           |
| 47 4-Nitrophenol                  | 109       | 14.711 | 14.595 | (1.033) | 7005     | 0.82883              | 0.8288 (M)       |
| 48 2,4-Dinitrotoluene             | 165       | 14.734 | 14.734 | (1.034) | 21675    | 0.90332              | 0.9033           |
| 50 Diethylphthalate               | 149       | 15.253 | 15.260 | (1.071) | 37412    | 0.56248              | 0.5625           |
| 49 Fluorene                       | 166       | 15.345 | 15.345 | (1.077) | 48211    | 0.54253              | 0.5425           |
| 51 4-Chlorophenyl-phenylether     | 204       | 15.361 | 15.361 | (1.078) | 23681    | 0.50085              | 0.5008           |
| 52 4-Nitroaniline                 | 138       | 15.500 | 15.484 | (1.088) | 12486    | 0.73733              | 0.7373           |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 15.569 | 15.569 | (0.902) | 9300     | 0.68046              | 0.6805           |
| 54 N-Nitrosodiphenylamine         | 169       | 15.615 | 15.615 | (0.905) | 29279    | 0.56672              | 0.5667           |
| § 55 2,4,6-Tribromophenol         | 330       | 15.885 | 15.885 | (1.115) | 7056     | 0.58013              | 0.5801           |
| 56 4-Bromophenyl-phenylether      | 248       | 16.348 | 16.348 | (0.948) | 11488    | 0.50578              | 0.5058           |
| 57 Hexachlorobenzene              | 284       | 16.642 | 16.642 | (0.965) | 12906    | 0.51681              | 0.5168           |
| 58 Pentachlorophenol              | 266       | 17.036 | 17.013 | (0.987) | 6504     | 0.55274              | 0.5527 (M)       |
| * 59 Phenanthrene-d10             | 188       | 17.253 | 17.253 | (1.000) | 411120   | 4.00000              |                  |
| 60 Phenanthrene                   | 178       | 17.300 | 17.299 | (1.003) | 56582    | 0.51736              | 0.5174           |
| 61 Anthracene                     | 178       | 17.392 | 17.392 | (1.008) | 54458    | 0.52671              | 0.5267           |
| 62 Carbazole                      | 167       | 17.756 | 17.748 | (1.029) | 45380    | 0.50079              | 0.5008           |
| 63 Di-n-butylphthalate            | 149       | 18.599 | 18.599 | (1.078) | 60175    | 0.51476              | 0.5148           |
| 64 Fluoranthene                   | 202       | 19.721 | 19.729 | (0.882) | 60173    | 0.46602              | 0.4660           |
| 65 Pyrene                         | 202       | 20.154 | 20.154 | (0.901) | 63458    | 0.46614              | 0.4661           |
| § 66 Terphenyl-d14                | 244       | 20.479 | 20.479 | (0.916) | 48418    | 0.46193              | 0.4619           |
| 67 Butylbenzylphthalate           | 149       | 21.447 | 21.447 | (0.959) | 24820    | 0.51573              | 0.5157           |
| 68 Benzo(a)anthracene             | 228       | 22.346 | 22.353 | (0.999) | 62629    | 0.54936              | 0.5494           |
| * 69 Chrysene-d12                 | 240       | 22.369 | 22.376 | (1.000) | 340331   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252       | 22.330 | 22.338 | (0.998) | 59762    | 1.83563              | 1.836            |
| 71 Chrysene                       | 228       | 22.415 | 22.423 | (1.002) | 58976    | 0.53821              | 0.5382           |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 22.500 | 22.500 | (0.958) | 33247    | 0.45398              | 0.4540           |
| * 134 Di-n-octylphthalate-d4      | 153       | 23.476 | 23.483 | (1.000) | 479730   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149       | 23.484 | 23.491 | (1.000) | 63248    | 0.50073              | 0.5007           |
| 74 Benzo(b)fluoranthene           | 252       | 24.111 | 24.118 | (0.975) | 45890    | 0.57643              | 0.5764           |
| 75 Benzo(k)fluoranthene           | 252       | 24.149 | 24.149 | (0.977) | 57910    | 0.67426              | 0.6743           |
| 76 Benzo(a)pyrene                 | 252       | 24.629 | 24.637 | (0.996) | 36970    | 0.54128              | 0.5413           |
| * 77 Perylene-d12                 | 264       | 24.722 | 24.730 | (1.000) | 240961   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 26.824 | 26.808 | (1.085) | 19630    | 0.22832              | 0.2283           |
| 79 Dibenzo(a,h)anthracene         | 278       | 26.839 | 26.824 | (1.086) | 18262    | 0.25008              | 0.2501           |
| 80 Benzo(g,h,i)perylene           | 276       | 27.422 | 27.414 | (1.109) | 13685    | 0.18250              | 0.1825           |
| 90 N-Nitrosodimethylamine         | 74        | 3.996  | 3.996  | (0.487) | 17862    | 0.78275              | 0.7828           |
| 91 Aniline                        | 93        | 7.689  | 7.689  | (0.937) | 50583    | 0.96024              | 0.9602           |
| 93 Benzidine                      | 184       | 20.023 | 20.007 | (0.895) | 31561    | 0.57203              | 0.5720           |
| 103 Pyridine                      | 79        | 4.027  | 3.996  | (0.491) | 26951    | 0.39928              | 0.3993           |
| 105 1-methylnaphthalene           | 142       | 12.305 | 12.305 | (1.155) | 35860    | 0.48884              | 0.4888           |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 15.677 | 15.685 | (1.100) | 44301    | 0.58017              | 0.5802           |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 24.111 | 24.149 | (0.975) | 98590    | 1.26597              | 1.266            |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 15.005 | 14.997 | (1.053) | 10119    | 0.39729              | 0.3973 (M)       |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 02-MAR-2023  
 Lab File ID: NT1423022851.D Calibration Time: 05:52  
 Lab Smp Id: SLB0374-LCV6  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 116519   | 58260      | 233038  | 111416 | -4.38  |
| 27 Naphthalene-d8     | 429090   | 214545     | 858180  | 403388 | -5.99  |
| 42 Acenaphthene-d10   | 250637   | 125319     | 501274  | 226130 | -9.78  |
| 59 Phenanthrene-d10   | 458117   | 229059     | 916234  | 411120 | -10.26 |
| 69 Chrysene-d12       | 393468   | 196734     | 786936  | 340331 | -13.50 |
| 134 Di-n-octylphthala | 572636   | 286318     | 1145272 | 479730 | -16.22 |
| 77 Perylene-d12       | 283320   | 141660     | 566640  | 240961 | -14.95 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.21   | 0.00  |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.66  | -0.07 |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.25  | 0.00  |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.25  | 0.00  |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.37  | -0.03 |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.48  | -0.03 |
| 77 Perylene-d12       | 24.73    | 24.23    | 25.23 | 24.72  | -0.03 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022851.D

Lab ID: SLB0374-LCV6  
nt14.i, ABN.m, 02-MAR-2023 07:40

RT CO-ELUTION COMPOUNDS

---

13.931 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND          |
|-------|---------|--------|-------------------|
| 1.051 | 1.038   | 0.0132 | Benzyl alcohol    |
| 1.000 | 0.972   | 0.0275 | Benzoic acid      |
| 1.018 | 1.012   | 0.0054 | 2,4-Dinitrophenol |
| 1.033 | 1.024   | 0.0082 | 4-Nitrophenol     |

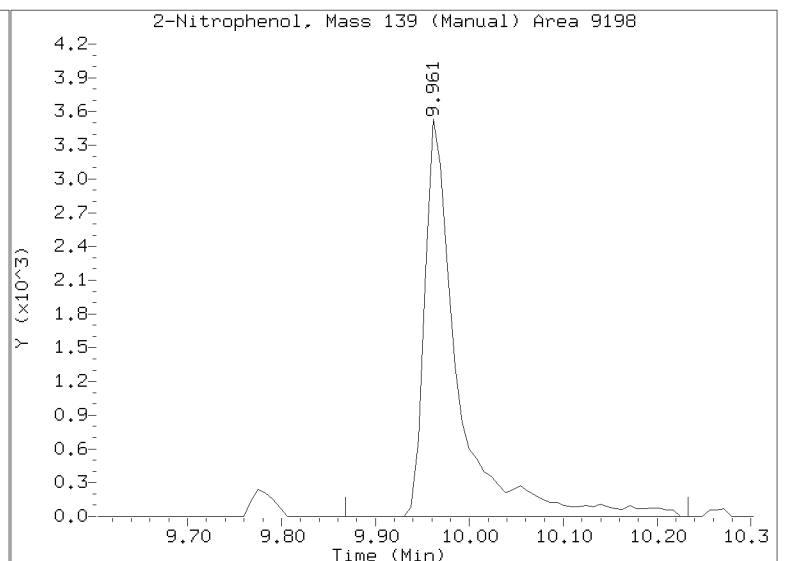
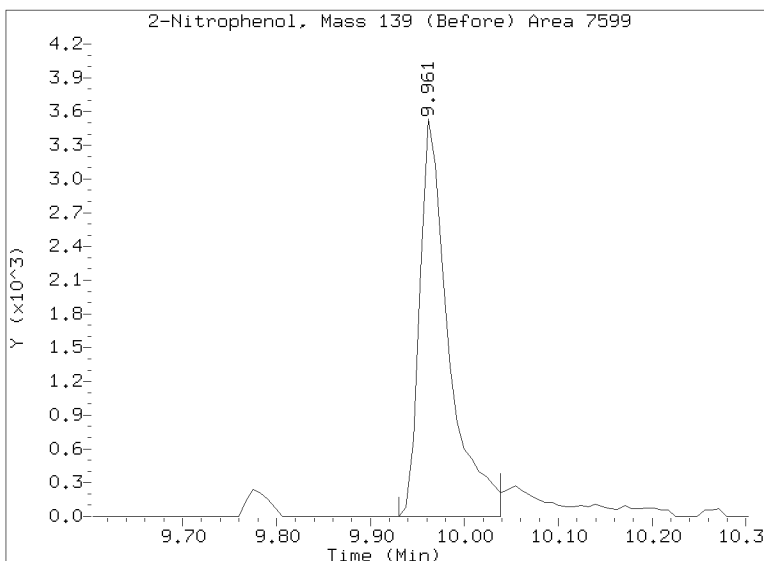
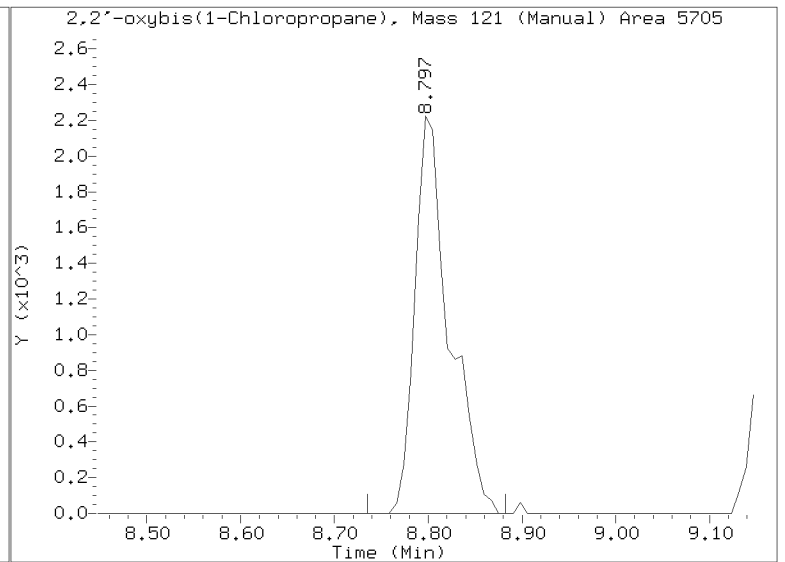
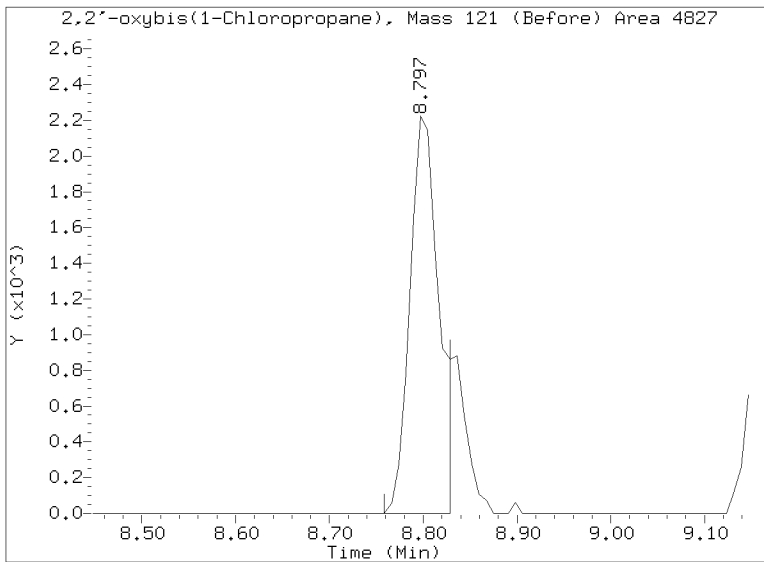
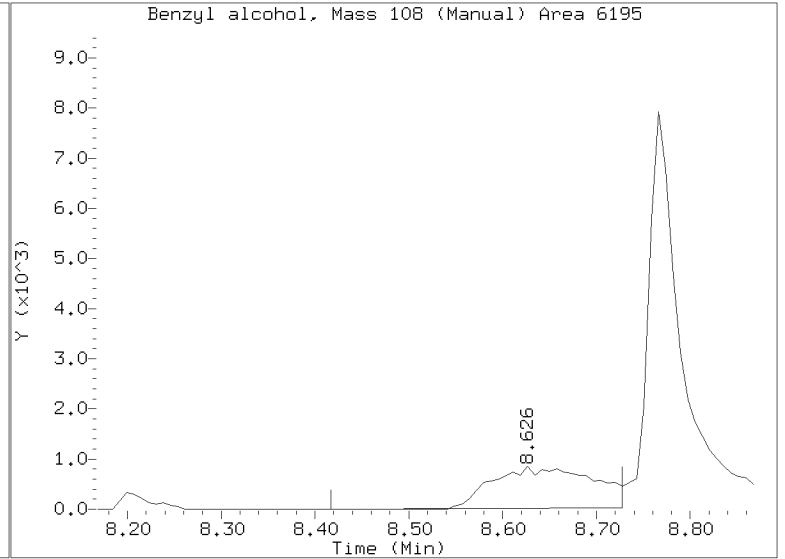
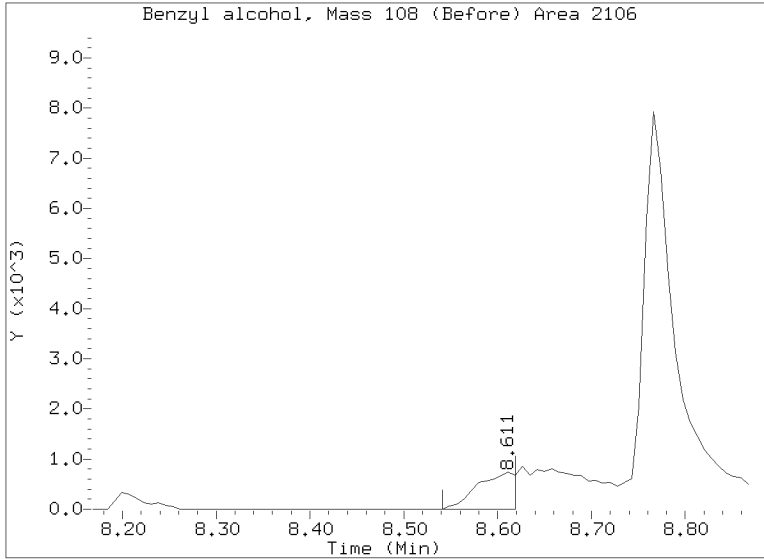
RRT check based on Ccal File: NT1423022848.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

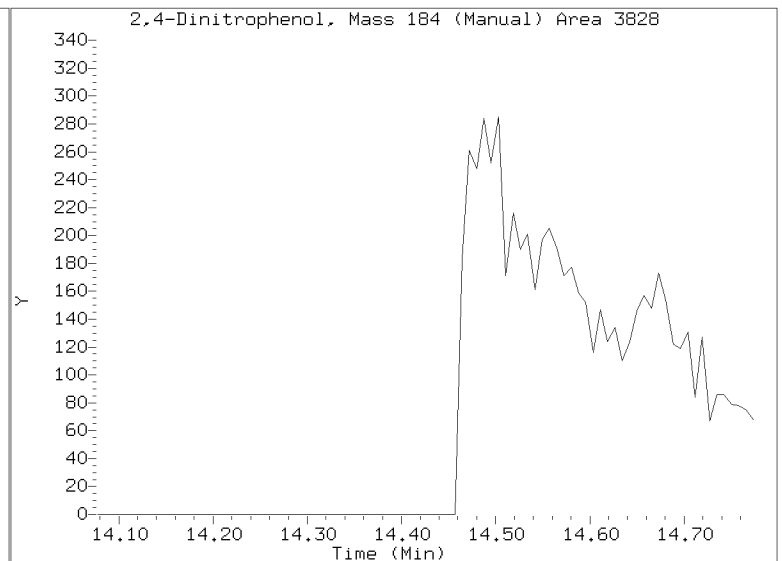
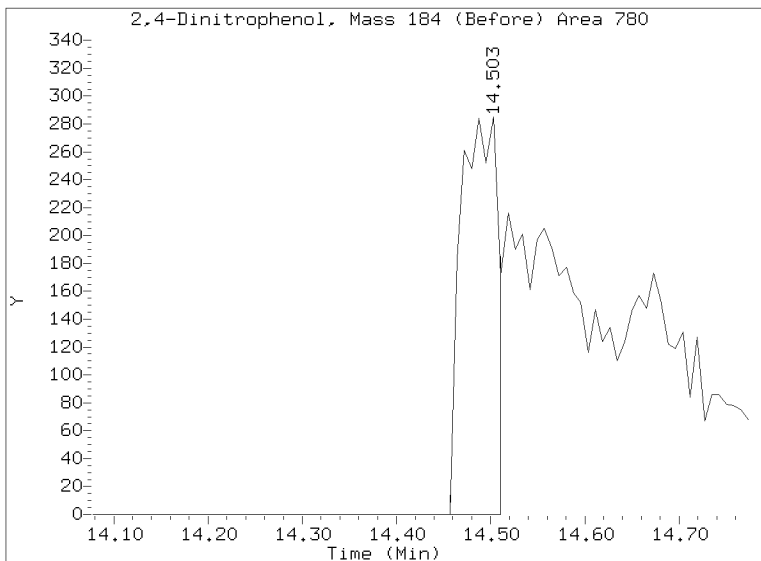
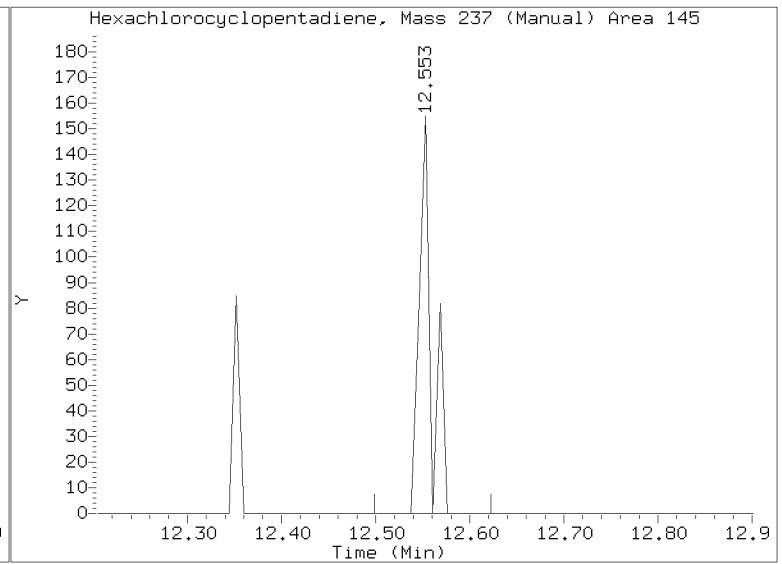
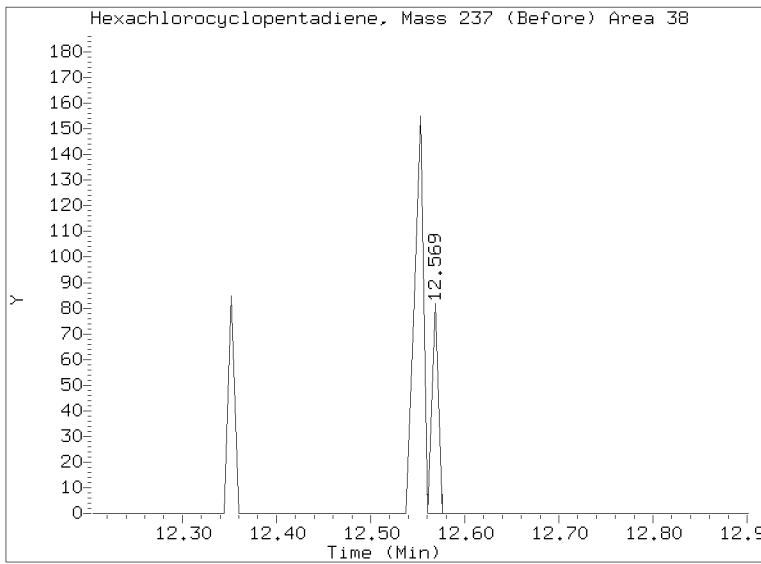
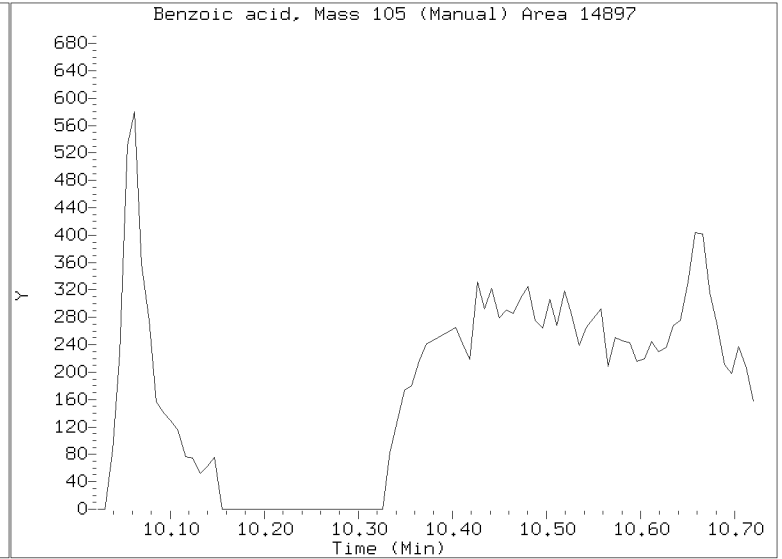
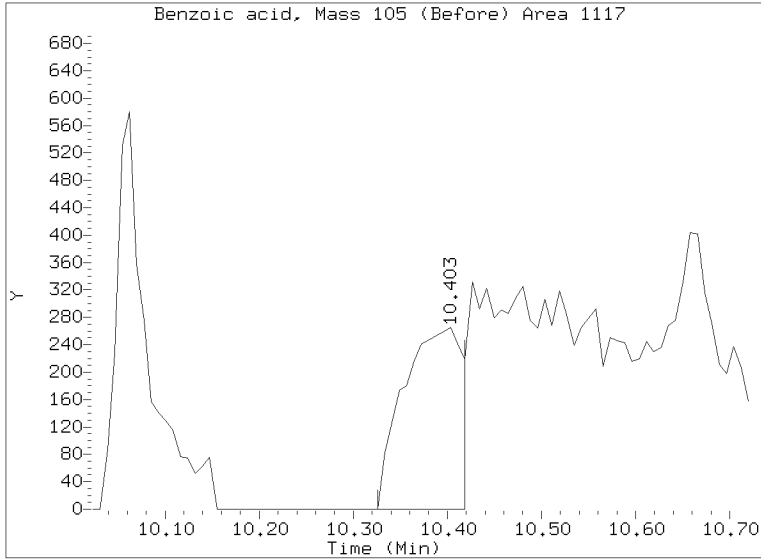
# Quant Ion Manual Peak Adjustment Report

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Injection Date: 02-MAR-2023 07:40  
Lab ID:SLB0374-LCV6 Client ID:  
Report Date: 03/14/2023 08:43



# Quant Ion Manual Peak Adjustment Report

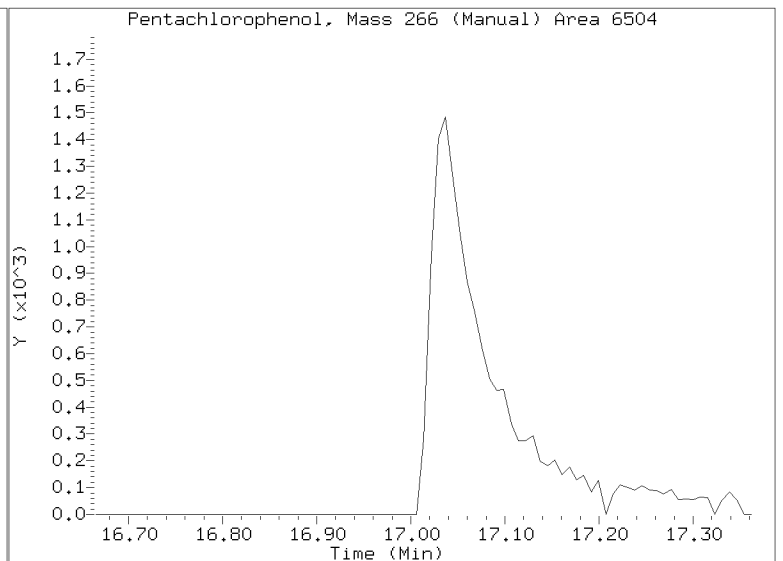
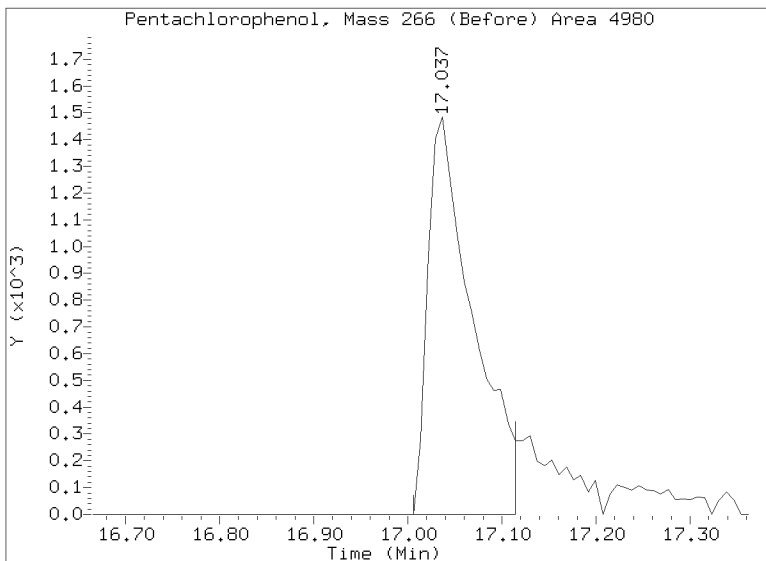
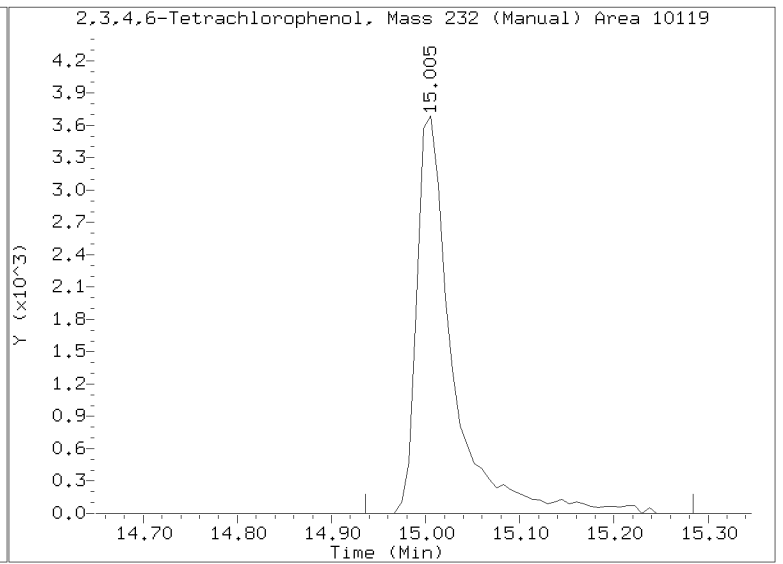
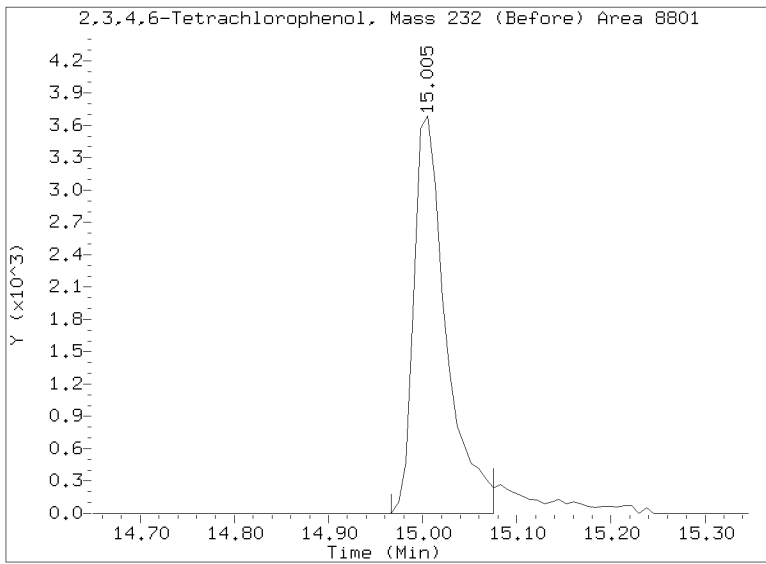
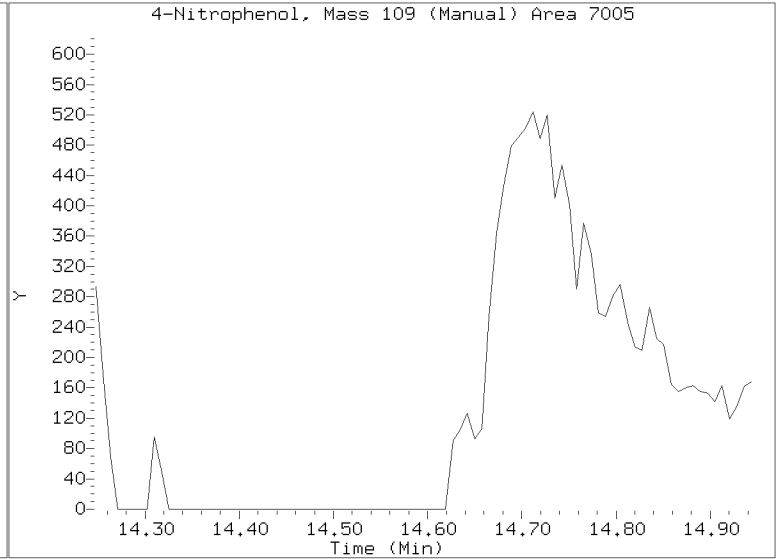
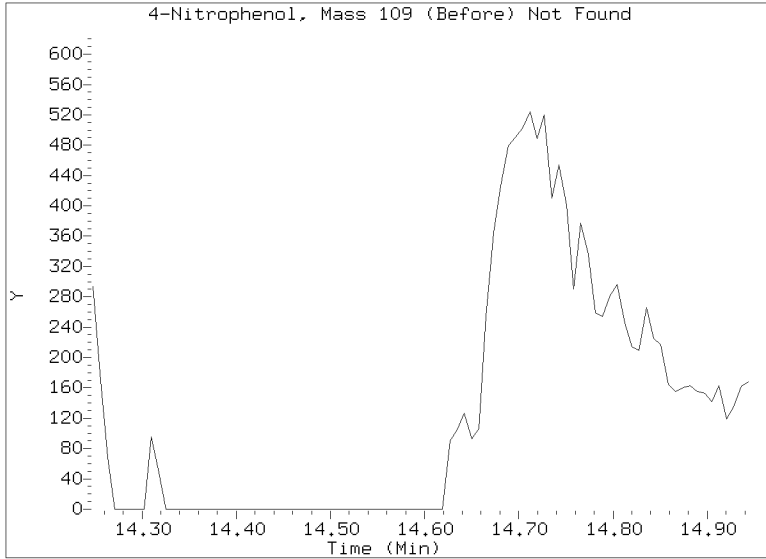
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Injection Date: 02-MAR-2023 07:40  
Lab ID:SLB0374-LCV6 Client ID:  
Report Date: 03/14/2023 08:43





# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022851.D  
Injection Date: 02-MAR-2023 07:40  
Lab ID: SLB0374-LCV6 Client ID:  
Report Date: 03/14/2023 08:43





**SECOND-SOURCE  
CONTINUING CALIBRATION CHECK  
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022812.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 02/28/23

Lab Sample ID: SLB0374-SCV1

Injection Time: 17:41

Sequence Name: SCV 5.0

| COMPOUND                     | TYPE | CONC. (ug/mL) |     | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|------------------------------|------|---------------|-----|-----------------------|-----------|-----|--------------|---------|
|                              |      | STD           | CCV | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| Phenol                       | A    | 5.0000        | 3.9 | 1.8373500             | 1.4459250 |     | -21.3        | +/-20 * |
| bis(2-chloroethyl) ether     | A    | 5.0000        | 5.2 | 1.5312550             | 1.3047970 |     | 4.7          | +/-20   |
| 2-Chlorophenol               | A    | 5.0000        | 4.6 | 1.3533690             | 1.2538550 |     | -7.4         | +/-20   |
| 1,3-Dichlorobenzene          | A    | 5.0000        | 4.8 | 1.4914740             | 1.4302950 |     | -4.1         | +/-20   |
| 1,4-Dichlorobenzene          | A    | 5.0000        | 4.8 | 1.4740600             | 1.4151500 |     | -4.0         | +/-20   |
| 1,2-Dichlorobenzene          | A    | 5.0000        | 4.8 | 1.4134490             | 1.3588290 |     | -3.9         | +/-20   |
| Benzyl Alcohol               | A    | 5.0000        | 4.3 | 0.6439892             | 0.6983891 |     | -13.9        | +/-20   |
| 2,2'-Oxybis(1-chloropropane) | A    | 5.0000        | 5.5 | 0.3811859             | 0.4200502 |     | 10.2         | +/-20   |
| 2-Methylphenol               | A    | 5.0000        | 4.4 | 1.1607310             | 1.0230260 |     | -11.9        | +/-20   |
| Hexachloroethane             | A    | 5.0000        | 5.1 | 0.5535732             | 0.5634585 |     | 1.8          | +/-20   |
| N-Nitroso-di-n-Propylamine   | A    | 5.0000        | 5.1 | 0.8837751             | 0.9082400 |     | 2.8          | +/-20   |
| 4-Methylphenol               | A    | 5.0000        | 4.2 | 1.1353050             | 1.1211440 |     | -15.6        | +/-20   |
| Nitrobenzene                 | A    | 5.0000        | 5.1 | 0.3760061             | 0.3804653 |     | 1.2          | +/-20   |
| Isophorone                   | A    | 5.0000        | 6.4 | 0.4996273             | 0.7373638 |     | 28.2         | +/-20 * |
| 2-Nitrophenol                | A    | 5.0000        | 4.1 | 0.1467597             | 0.1614526 |     | -17.5        | +/-20   |
| 2,4-Dimethylphenol           | A    | 5.0000        | 3.9 | 0.3427845             | 0.2666948 |     | -22.2        | +/-20 * |
| Bis(2-Chloroethoxy)methane   | A    | 5.0000        | 5.8 | 0.3780235             | 0.4358111 |     | 15.3         | +/-20   |
| 2,4-Dichlorophenol           | A    | 5.0000        | 4.8 | 0.2946235             | 0.3249276 |     | -4.3         | +/-20   |
| 1,2,4-Trichlorobenzene       | A    | 5.0000        | 4.8 | 0.3874001             | 0.3710765 |     | -4.2         | +/-20   |
| Naphthalene                  | A    | 5.0000        | 4.8 | 1.0669580             | 1.0170510 |     | -4.7         | +/-20   |
| Benzoic acid                 | A    | 10.0000       | 4.1 | 0.1358415             | 0.0553068 |     | -59.3        | +/-20 * |
| 4-Chloroaniline              | A    | 5.0000        | 3.9 | 0.4563565             | 0.3555087 |     | -22.1        | +/-20 * |
| Hexachlorobutadiene          | A    | 5.0000        | 4.8 | 0.2363916             | 0.2270940 |     | -3.9         | +/-20   |
| 4-Chloro-3-Methylphenol      | A    | 5.0000        | 4.9 | 0.3085482             | 0.2999183 |     | -2.8         | +/-20   |
| 2-Methylnaphthalene          | A    | 5.0000        | 4.6 | 0.7901196             | 0.7308895 |     | -7.5         | +/-20   |
| Hexachlorocyclopentadiene    | A    | 5.0000        | 4.5 | 0.3443795             | 0.3818016 |     | -9.3         | +/-20   |
| 2,4,6-Trichlorophenol        | A    | 5.0000        | 4.8 | 0.3907367             | 0.3741828 |     | -4.2         | +/-20   |
| 2,4,5-Trichlorophenol        | A    | 5.0000        | 4.7 | 0.4224702             | 0.3945367 |     | -6.6         | +/-20   |
| 2-Chloronaphthalene          | A    | 5.0000        | 4.9 | 1.2480280             | 1.2257100 |     | -1.8         | +/-20   |
| 2-Nitroaniline               | A    | 5.0000        | 5.0 | 0.3254949             | 0.3241728 |     | -0.4         | +/-20   |
| Acenaphthylene               | A    | 5.0000        | 5.0 | 1.8312950             | 1.8221570 |     | -0.5         | +/-20   |
| Dimethylphthalate            | A    | 5.0000        | 5.2 | 1.2581570             | 1.3099120 |     | 4.1          | +/-20   |
| 2,6-Dinitrotoluene           | A    | 5.0000        | 5.2 | 0.2948315             | 0.3081993 |     | 4.5          | +/-20   |
| Acenaphthene                 | A    | 5.0000        | 4.8 | 1.1724930             | 1.1178170 |     | -4.7         | +/-20   |

\* Values outside of QC limits



**SECOND-SOURCE  
CONTINUING CALIBRATION CHECK  
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022812.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 02/28/23

Lab Sample ID: SLB0374-SCV1

Injection Time: 17:41

Sequence Name: SCV 5.0

| COMPOUND                   | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|----------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|---------|
|                            |      | STD           | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| 3-Nitroaniline             | A    | 5.0000        | 4.9  | 0.3021810             | 0.2942529 |     | -2.6         | +/-20   |
| 2,4-Dinitrophenol          | A    | 5.0000        | 1.0  | 0.1437811             | 0.0366189 |     | -80.4        | +/-20 * |
| Dibenzofuran               | A    | 5.0000        | 4.7  | 1.8656210             | 1.7603770 |     | -5.6         | +/-20   |
| 4-Nitrophenol              | A    | 5.0000        | 3.9  | 0.1323756             | 0.1187216 |     | -21.3        | +/-20 * |
| 2,4-Dinitrotoluene         | A    | 5.0000        | 4.9  | 0.4244424             | 0.4194757 |     | -1.2         | +/-20   |
| Fluorene                   | A    | 5.0000        | 4.8  | 1.5719010             | 1.5068770 |     | -4.1         | +/-20   |
| 4-Chlorophenylphenyl ether | A    | 5.0000        | 4.9  | 0.8363665             | 0.8170425 |     | -2.3         | +/-20   |
| Diethyl phthalate          | A    | 5.0000        | 5.4  | 1.1765440             | 1.2754070 |     | 8.4          | +/-20   |
| 4-Nitroaniline             | A    | 5.0000        | 4.6  | 0.2995450             | 0.2731840 |     | -8.8         | +/-20   |
| 4,6-Dinitro-2-methylphenol | A    | 5.0000        | 3.2  | 0.0975169             | 0.0861175 |     | -35.3        | +/-20 * |
| N-Nitrosodiphenylamine     | A    | 5.0000        | 5.0  | 0.5026629             | 0.5006023 |     | -0.4         | +/-20   |
| 4-Bromophenyl phenyl ether | A    | 5.0000        | 5.2  | 0.2209900             | 0.2276960 |     | 3.0          | +/-20   |
| Hexachlorobenzene          | A    | 5.0000        | 4.8  | 0.2429692             | 0.2327533 |     | -4.2         | +/-20   |
| Pentachlorophenol          | A    | 5.0000        | 3.5  | 0.0938263             | 0.0817779 |     | -29.5        | +/-20 * |
| Phenanthrene               | A    | 5.0000        | 4.6  | 1.0640870             | 0.9821820 |     | -7.7         | +/-20   |
| Anthracene                 | A    | 5.0000        | 4.2  | 1.0059580             | 0.8499270 |     | -15.5        | +/-20   |
| Carbazole                  | A    | 5.0000        | 4.8  | 0.8816605             | 0.8421437 |     | -4.5         | +/-20   |
| Di-n-Butylphthalate        | A    | 5.0000        | 4.8  | 0.9469101             | 1.0782390 |     | -3.6         | +/-20   |
| Fluoranthene               | A    | 5.0000        | 5.1  | 1.5175930             | 1.5490870 |     | 2.1          | +/-20   |
| Pyrene                     | A    | 5.0000        | 5.0  | 1.6000330             | 1.5864090 |     | -0.9         | +/-20   |
| Butylbenzylphthalate       | A    | 5.0000        | 5.0  | 0.4562763             | 0.5515788 |     | -0.7         | +/-20   |
| Benzo(a)anthracene         | A    | 5.0000        | 4.9  | 1.3399020             | 1.3175480 |     | -1.7         | +/-20   |
| 3,3'-Dichlorobenzidine     | A    | 10.000        | 10.3 | 0.3826468             | 0.3937657 |     | 2.9          | +/-20   |
| Chrysene                   | A    | 5.0000        | 4.6  | 1.2879040             | 1.1735600 |     | -8.9         | +/-20   |
| bis(2-Ethylhexyl)phthalate | A    | 5.0000        | 5.3  | 0.5161185             | 0.6406338 |     | 5.5          | +/-20   |
| Di-n-Octylphthalate        | A    | 5.0000        | 5.2  | 1.0531830             | 1.0916890 |     | 3.7          | +/-20   |
| Benzofluoranthenes, Total  | A    | 10.000        | 9.6  | 1.2927770             | 1.2361330 |     | -4.4         | +/-20   |
| Benzo(a)pyrene             | A    | 5.0000        | 4.9  | 1.1338150             | 1.1080230 |     | -2.3         | +/-20   |
| Indeno(1,2,3-cd)pyrene     | A    | 5.0000        | 4.9  | 1.4272450             | 1.3963220 |     | -2.2         | +/-20   |
| Dibenzo(a,h)anthracene     | A    | 5.0000        | 4.9  | 1.2122070             | 1.1896140 |     | -1.9         | +/-20   |
| Benzo(g,h,i)perylene       | A    | 5.0000        | 4.9  | 1.2448130             | 1.2095830 |     | -2.8         | +/-20   |
| 1-Methylnaphthalene        | A    | 5.0000        | 4.9  | 0.7274101             | 0.7085858 |     | -2.6         | +/-20   |

\* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022812.D

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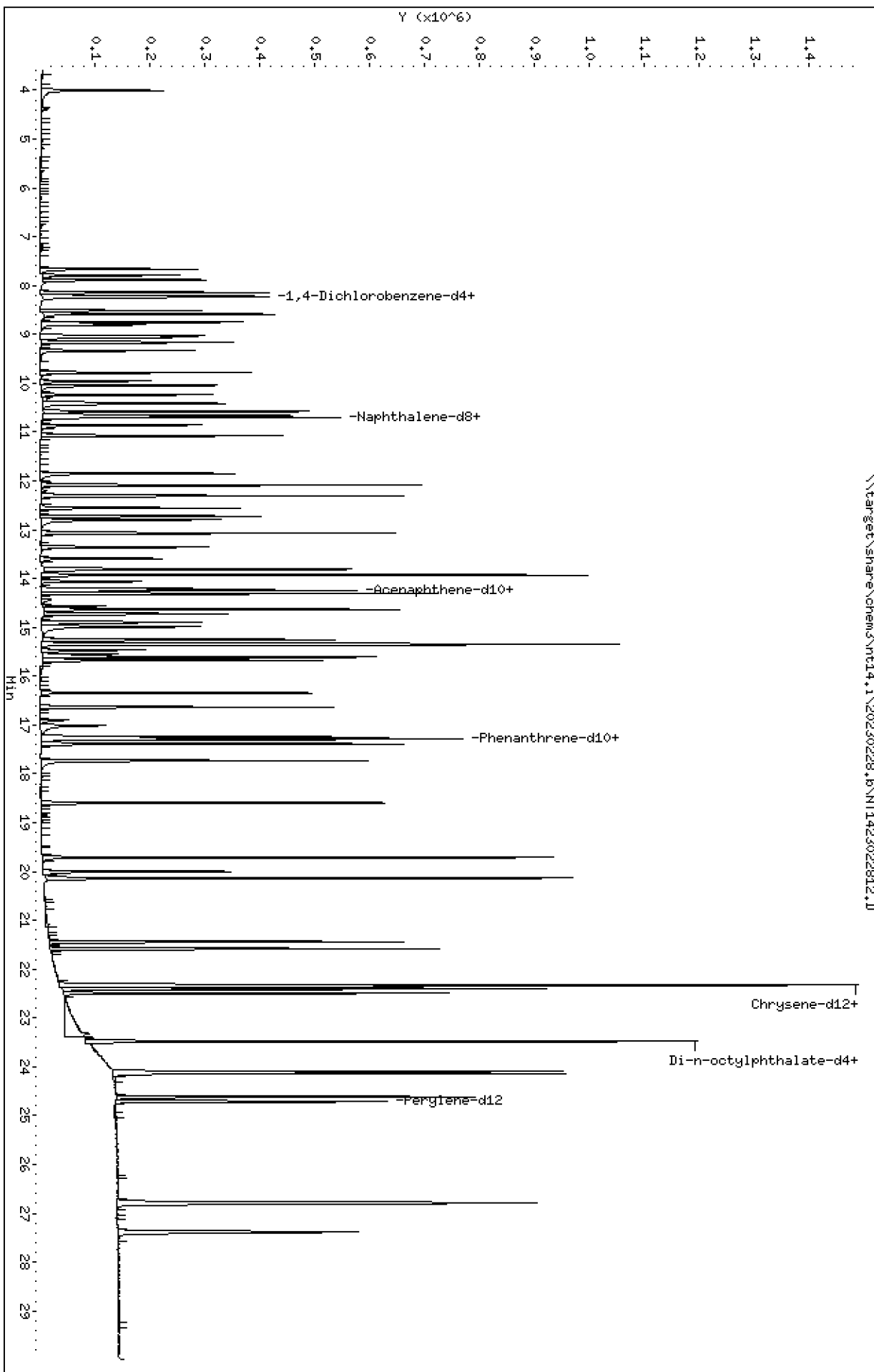
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

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Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

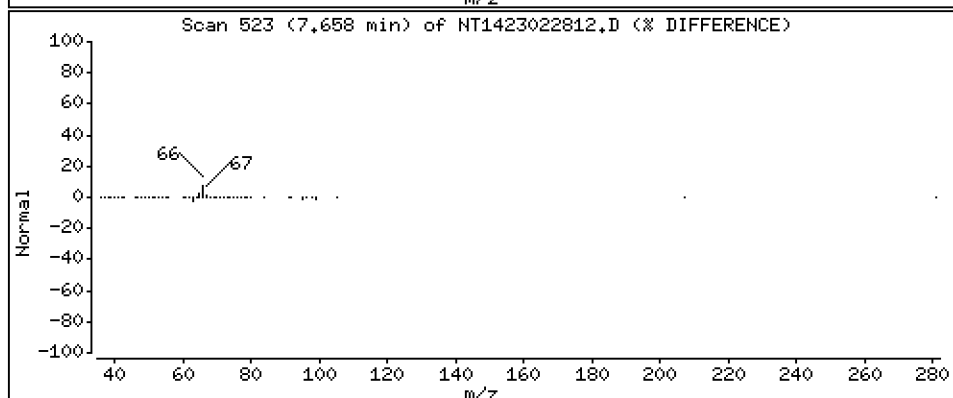
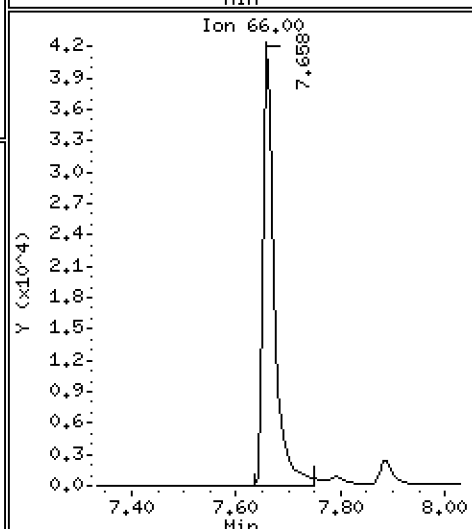
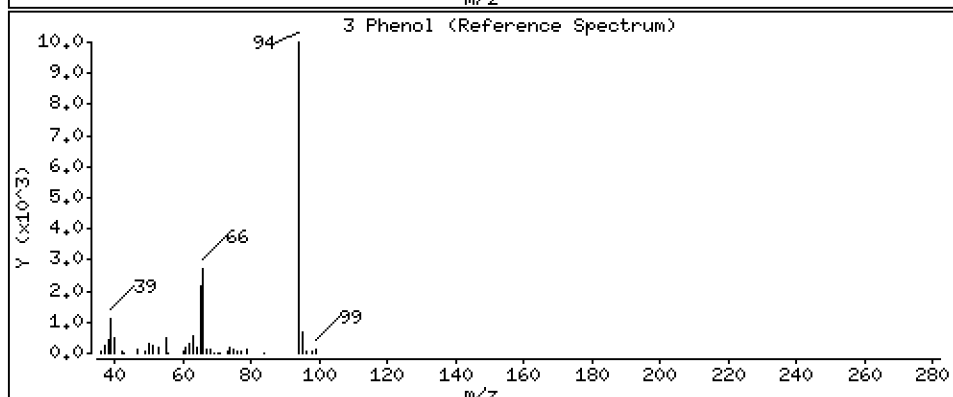
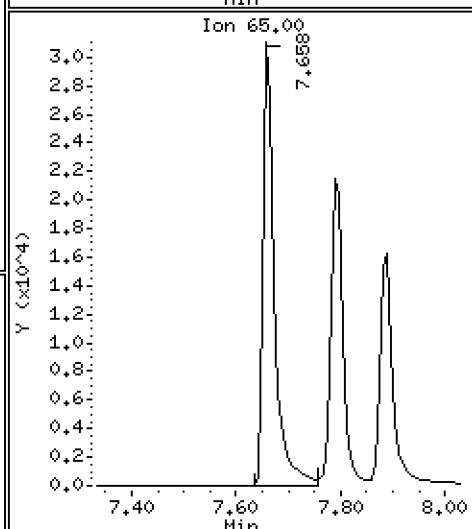
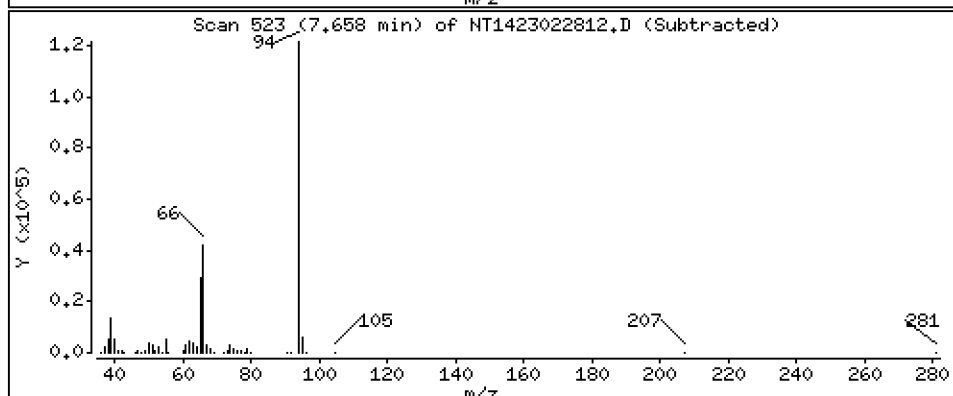
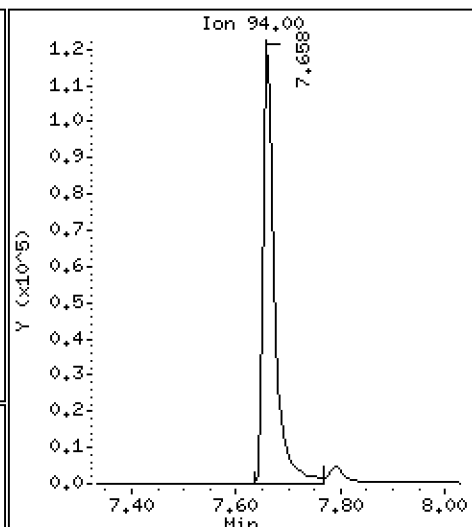
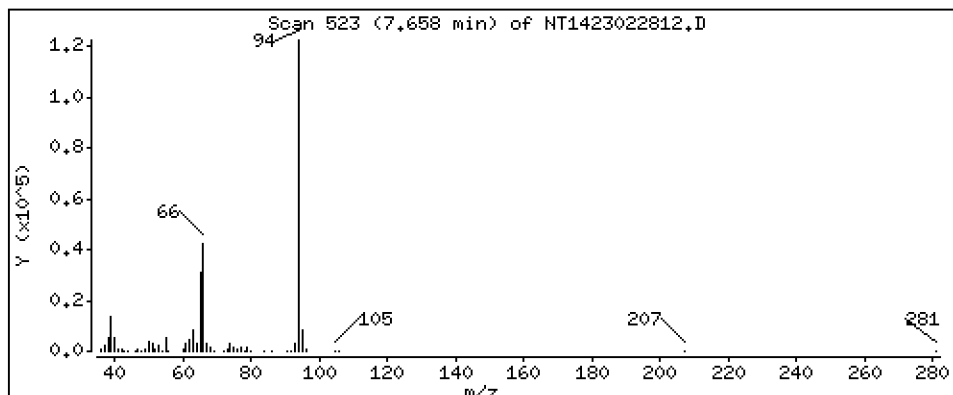
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 3.935 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

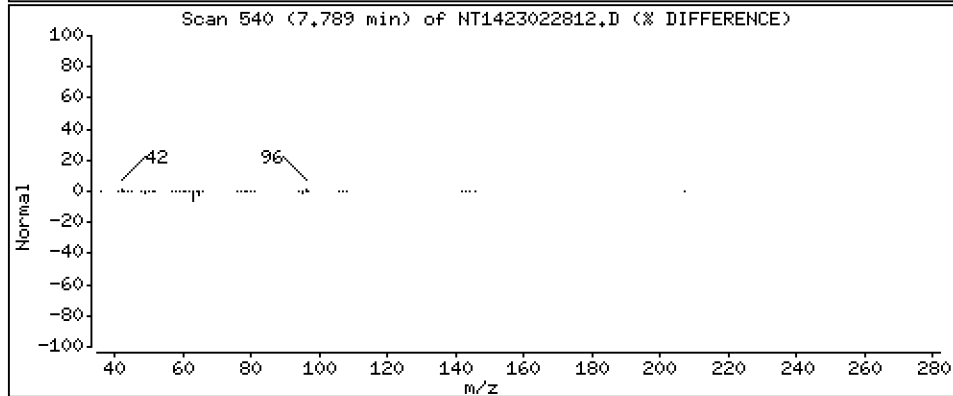
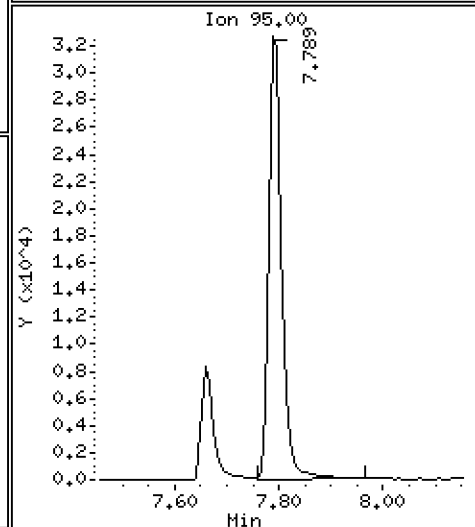
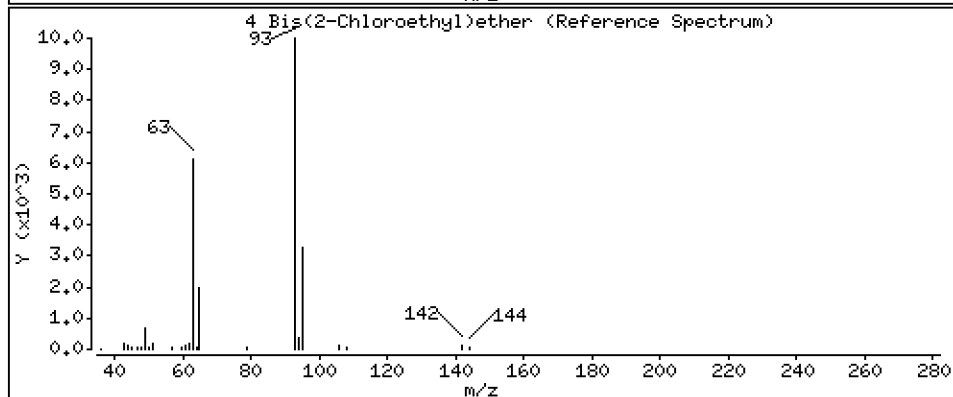
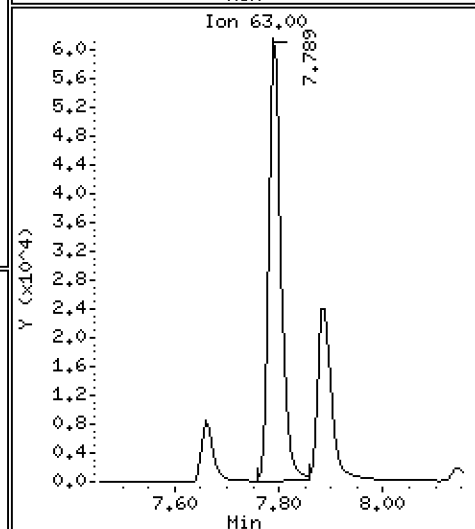
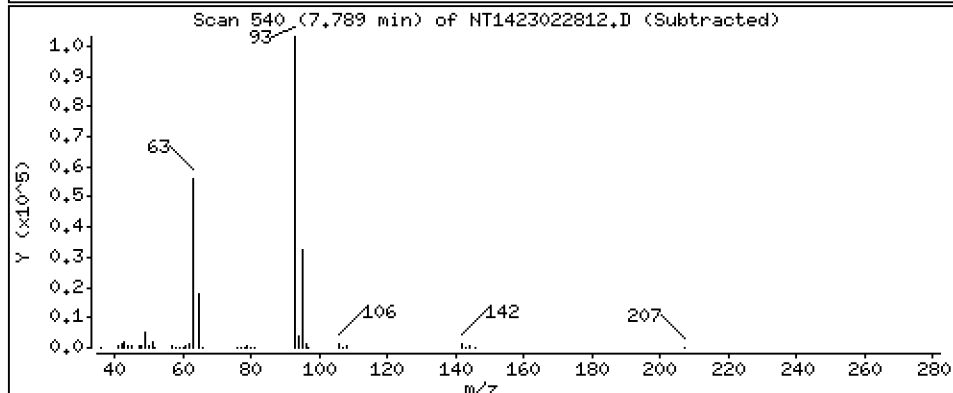
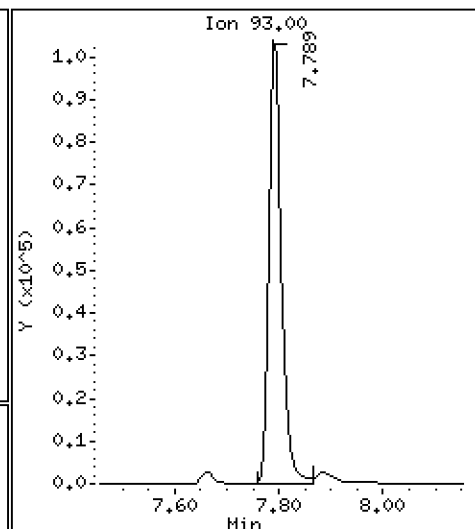
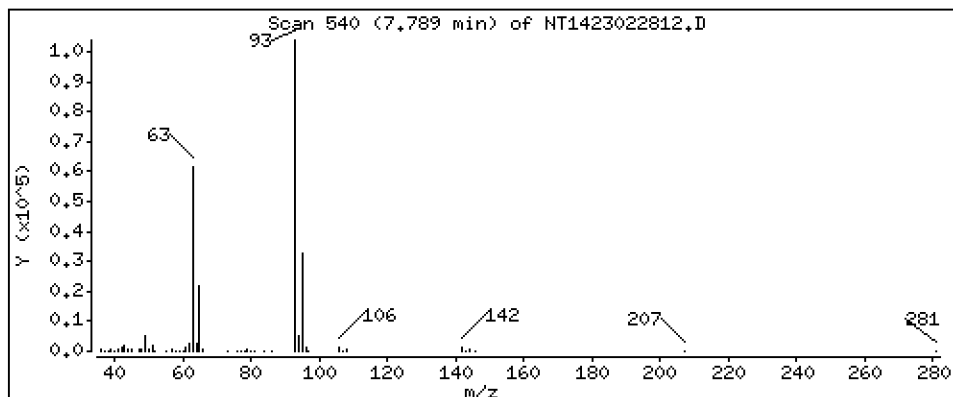
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 5.224 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

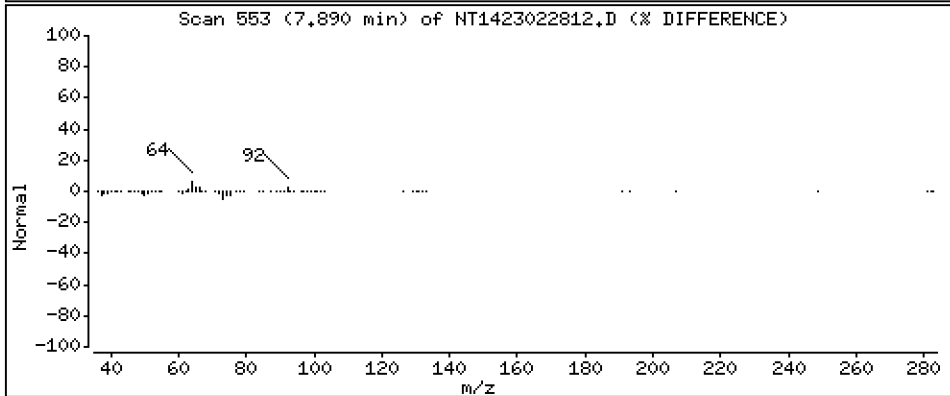
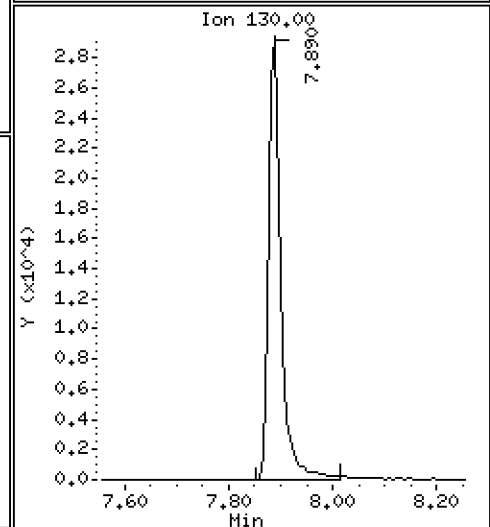
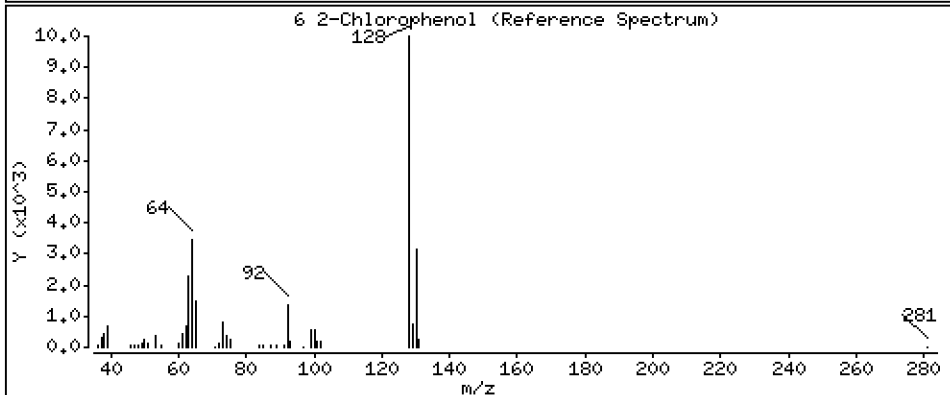
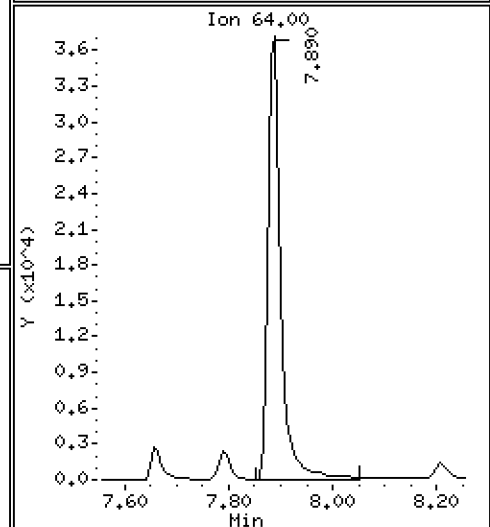
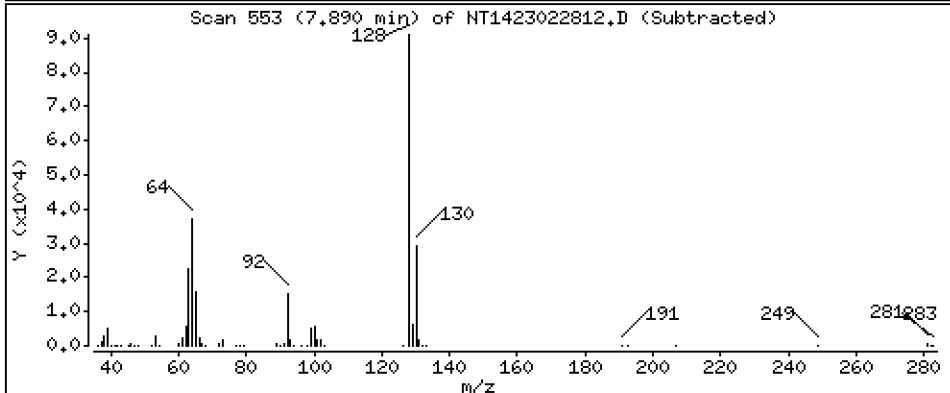
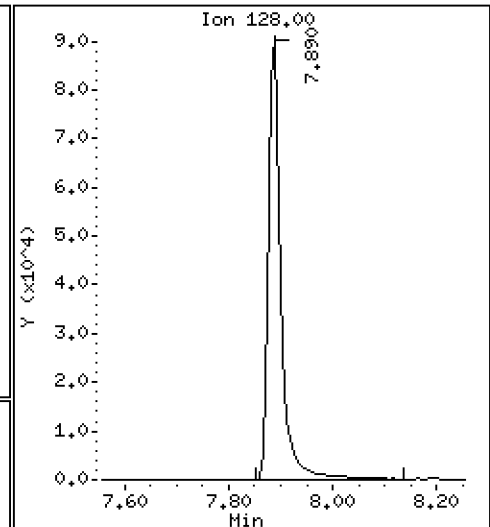
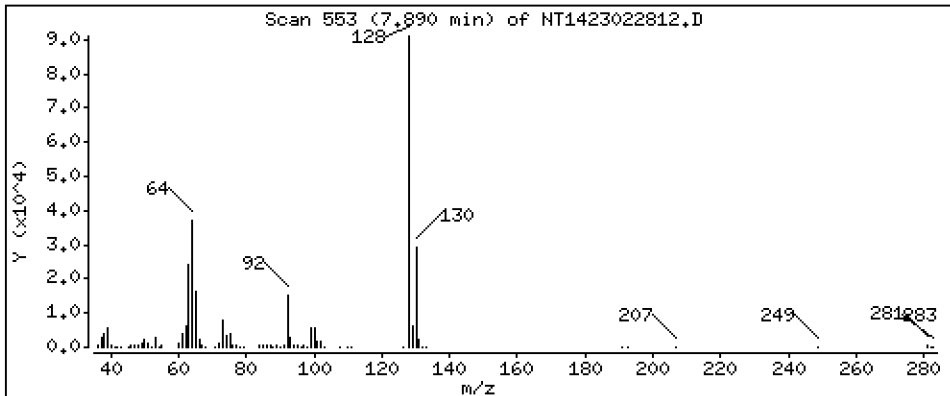
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,632 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

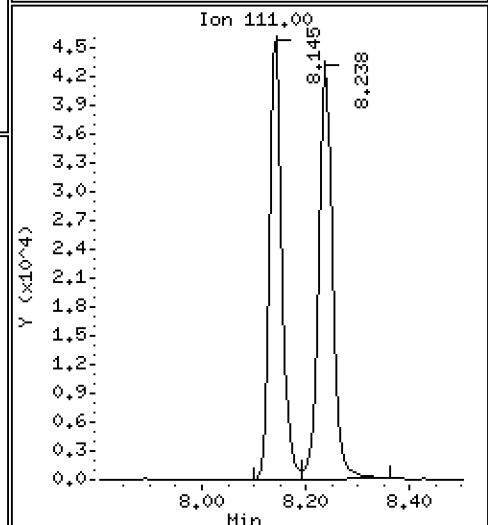
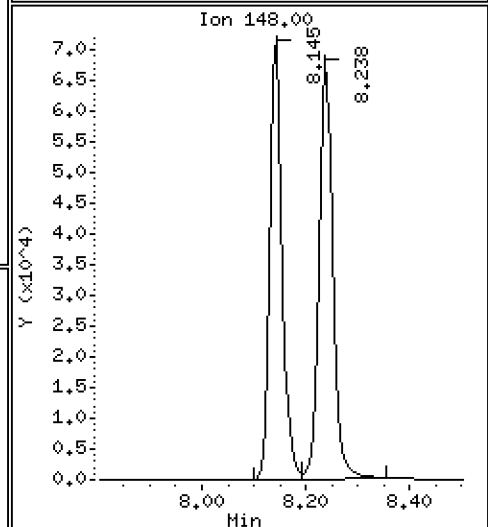
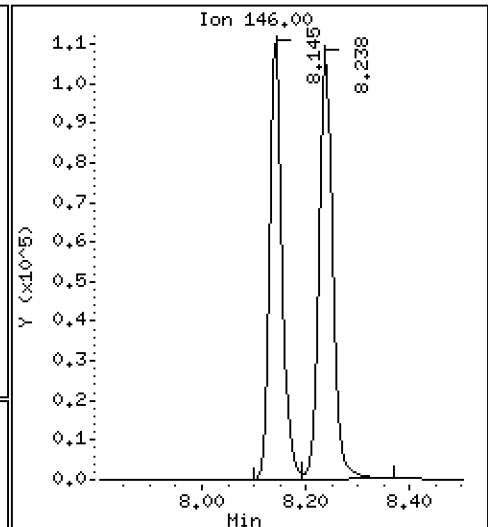
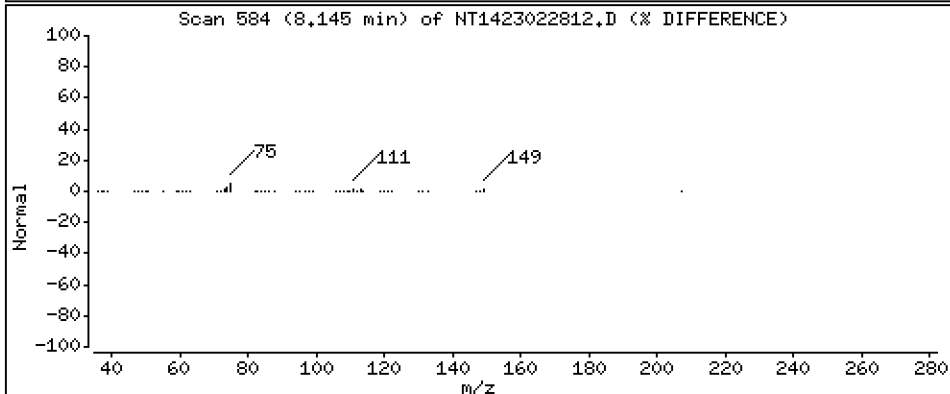
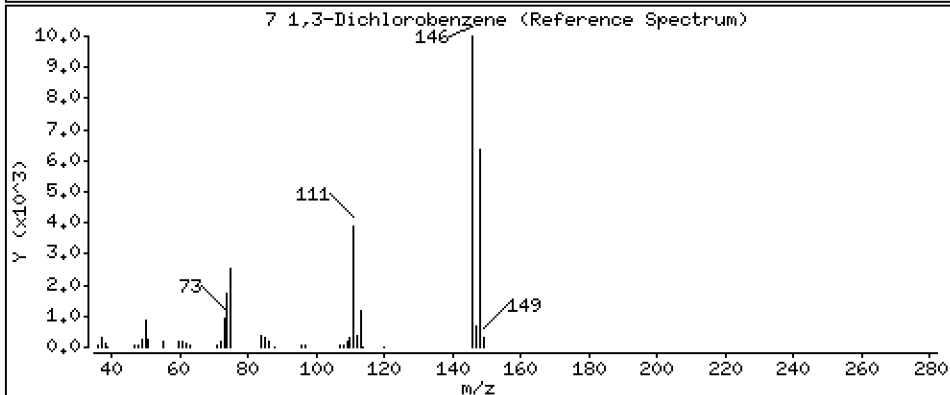
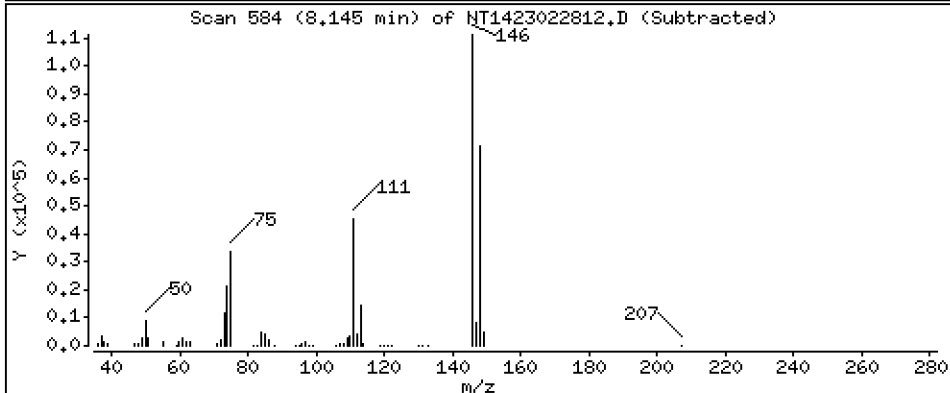
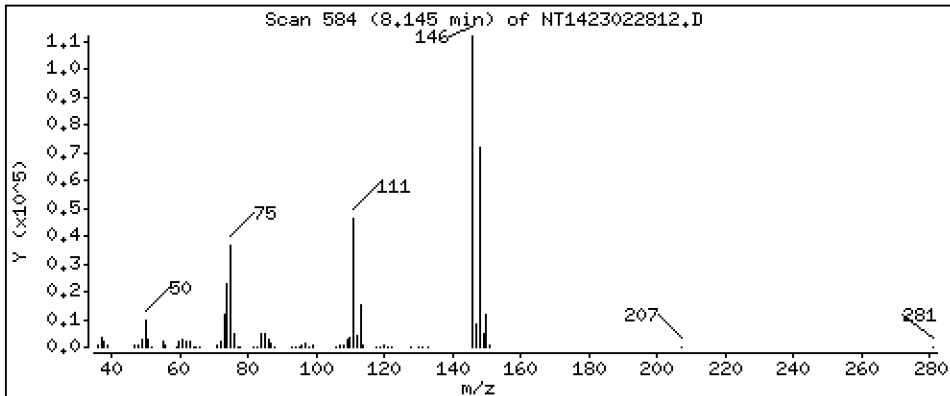
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 4.795 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

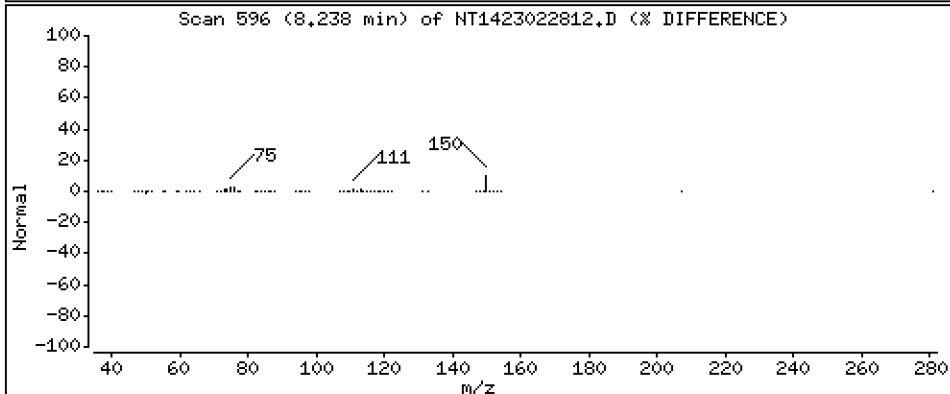
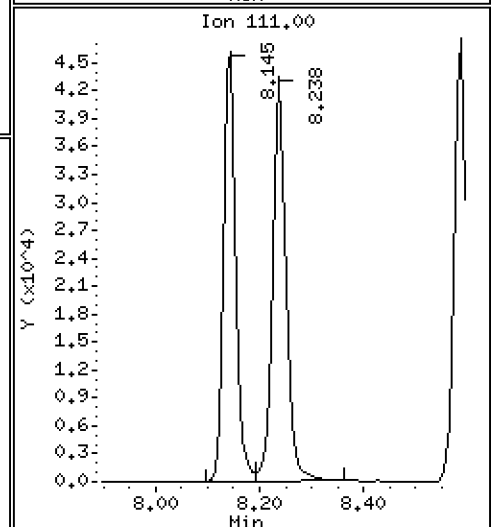
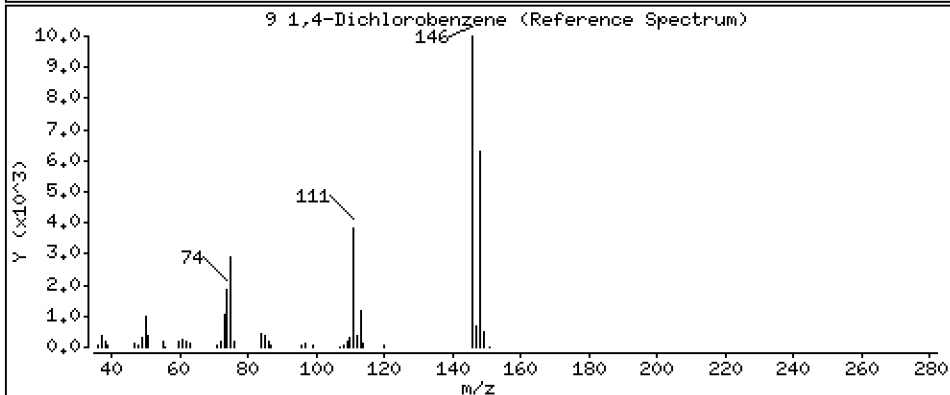
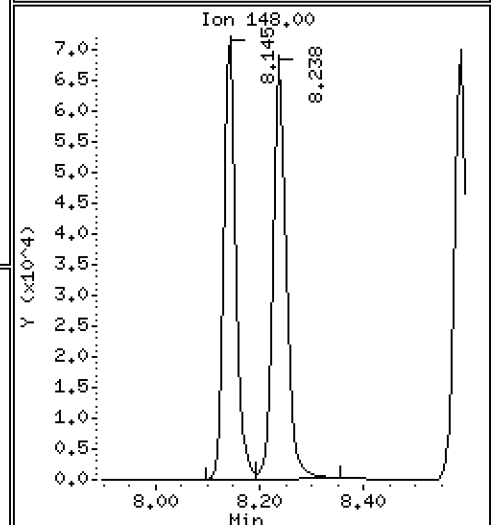
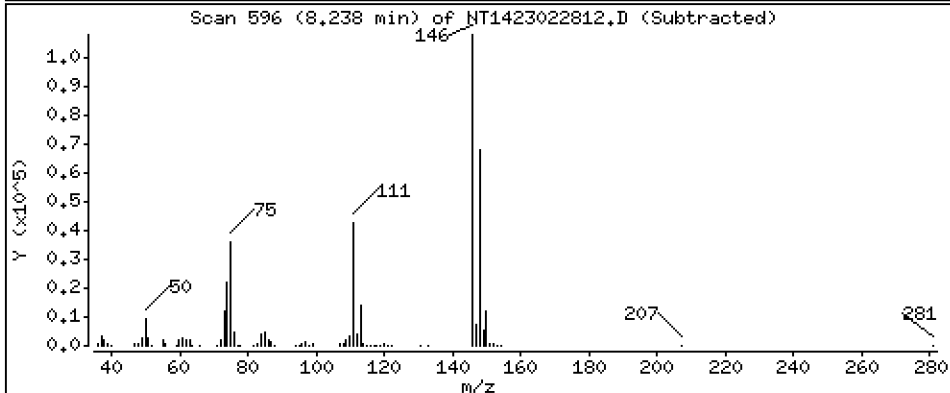
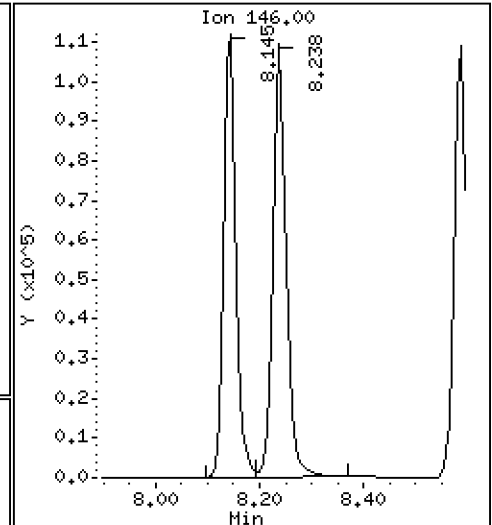
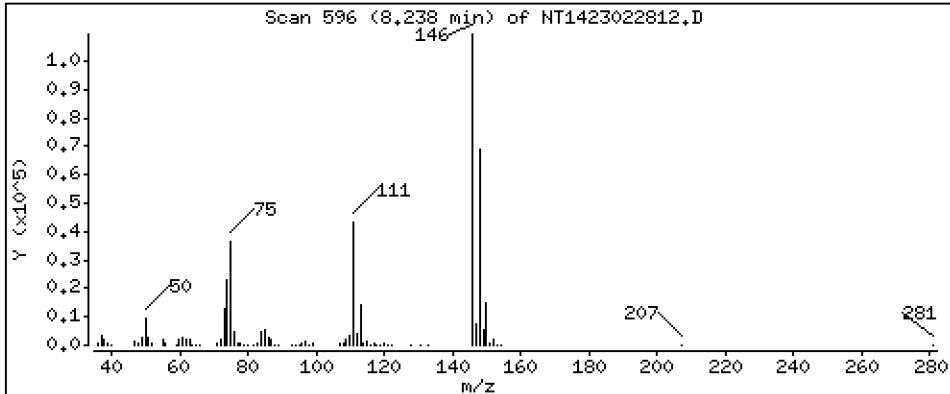
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,800 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

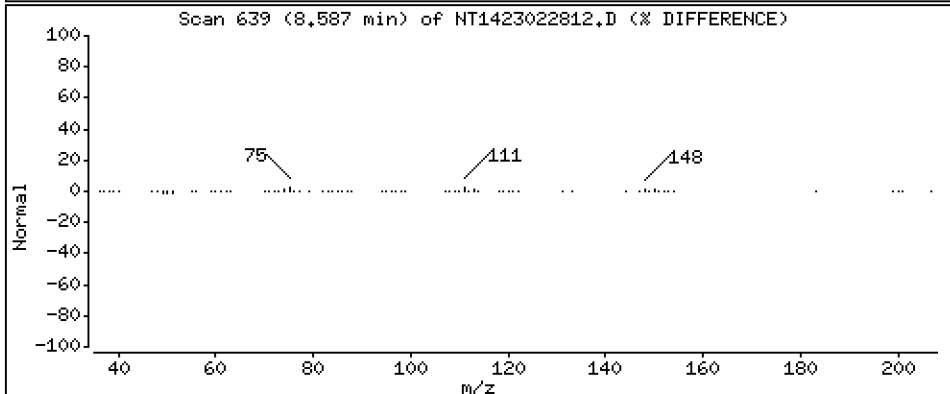
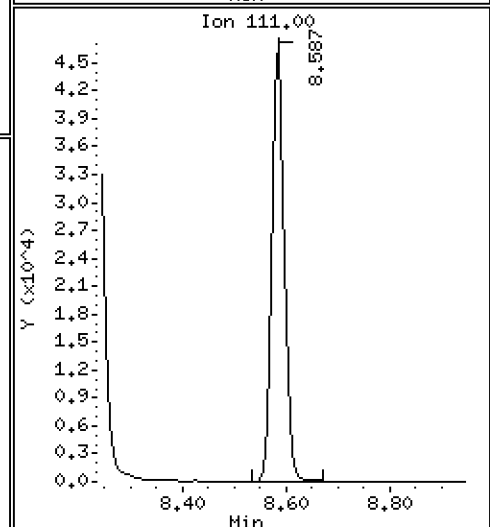
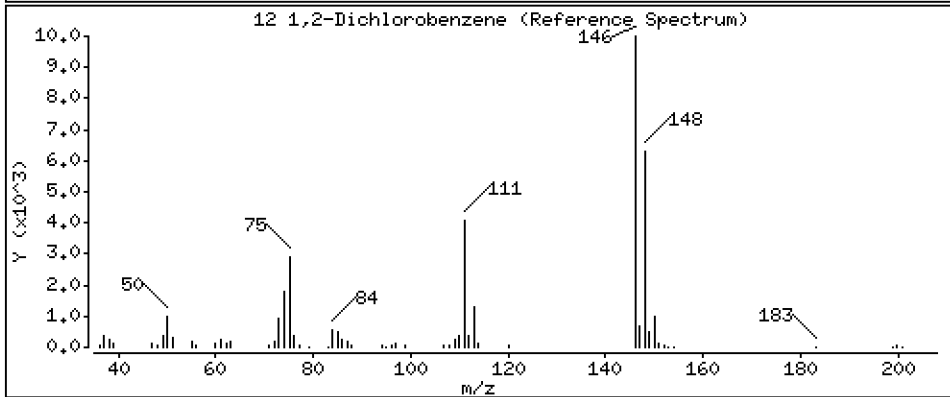
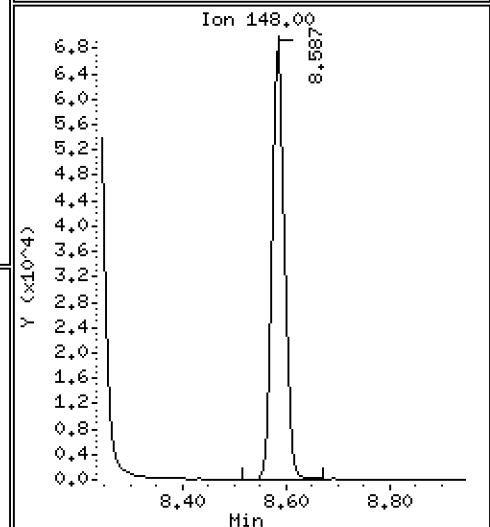
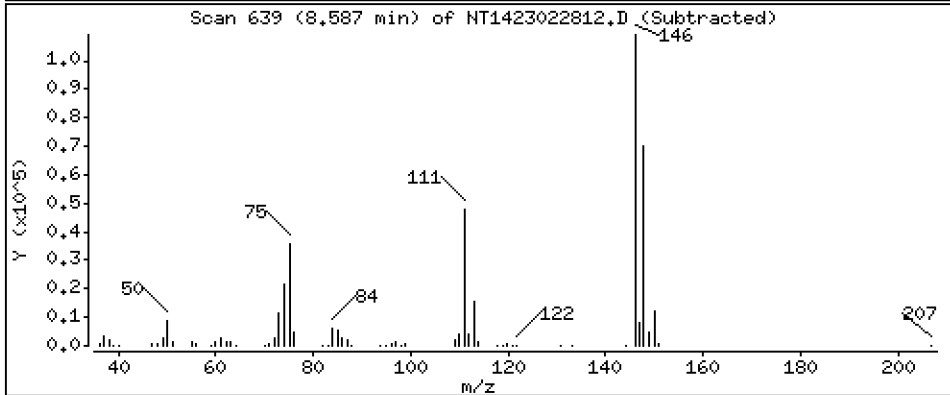
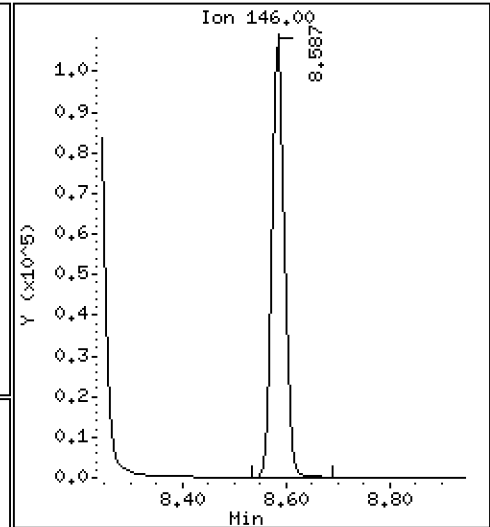
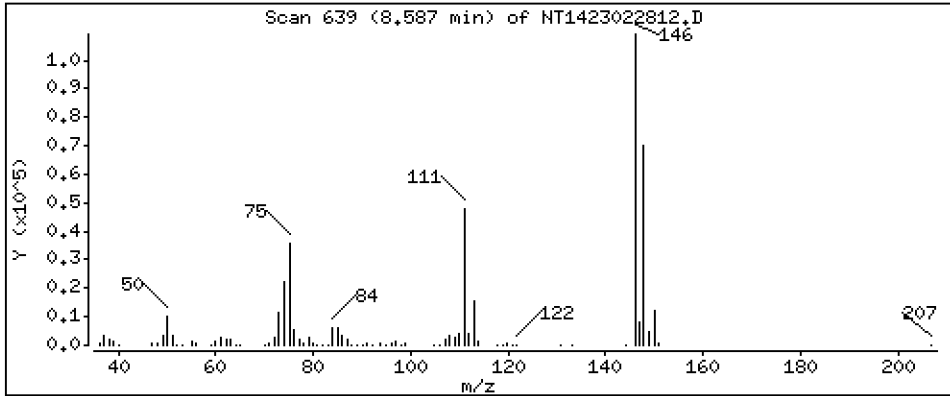
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 4.807 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

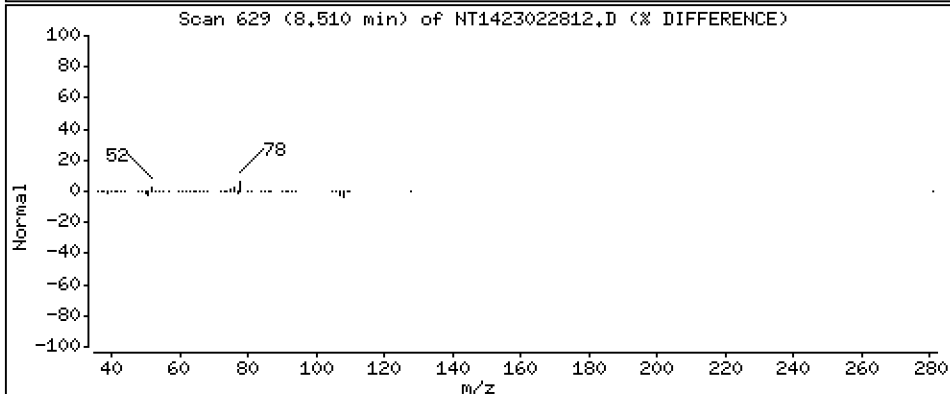
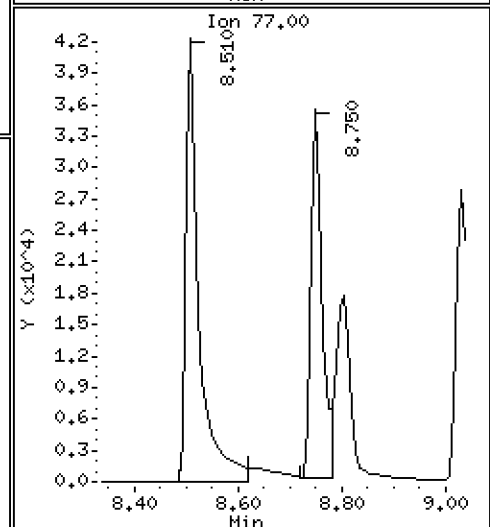
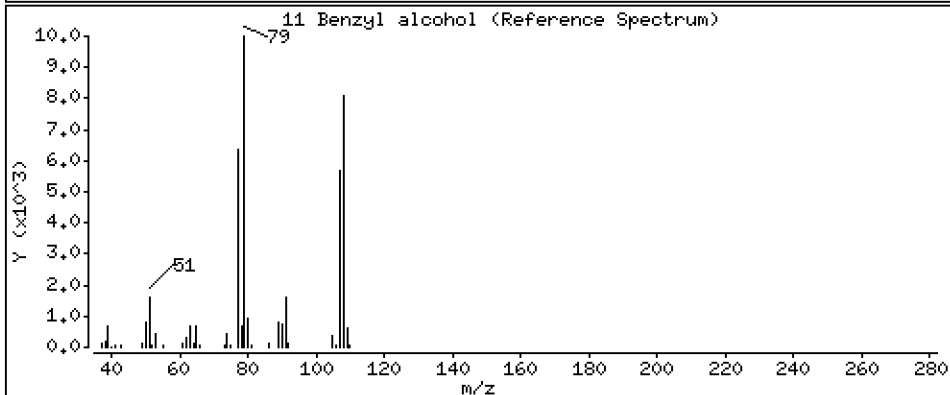
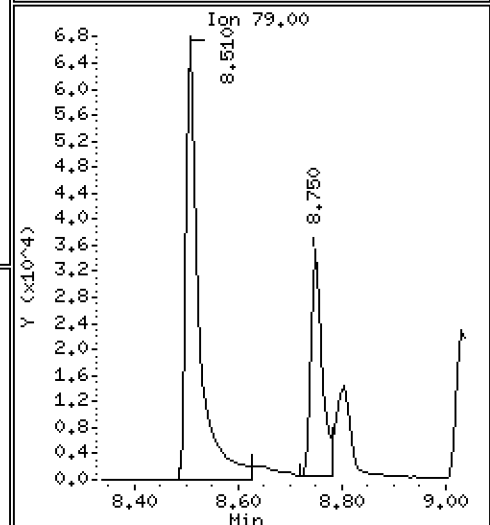
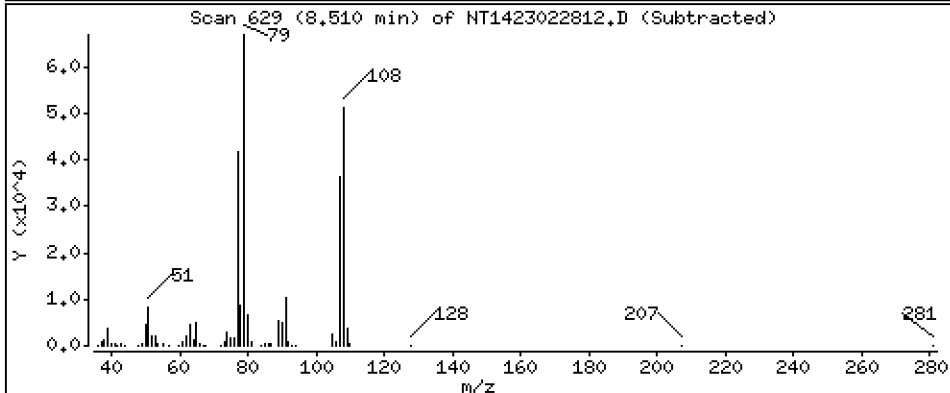
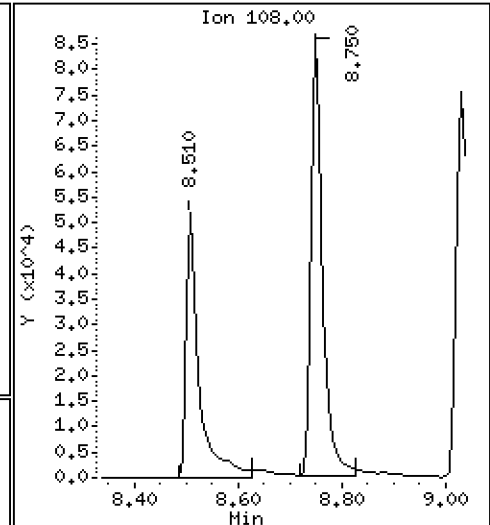
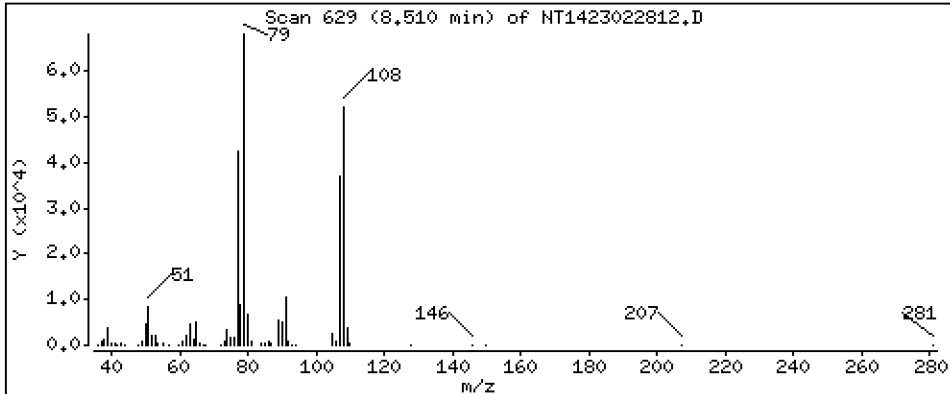
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.304 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

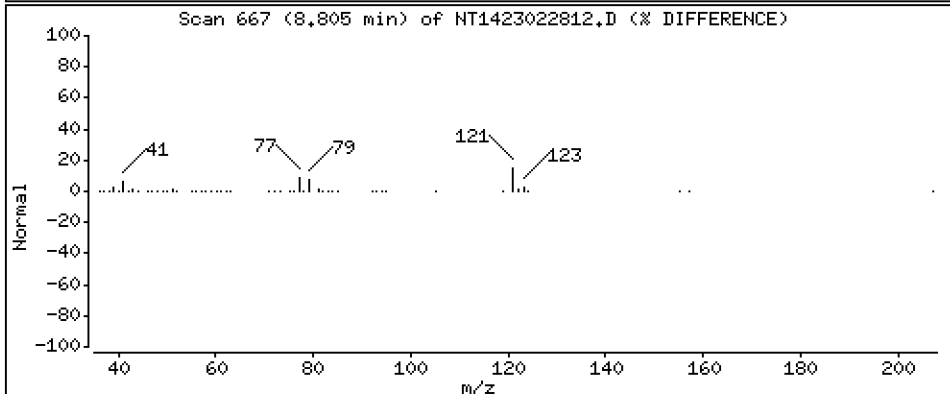
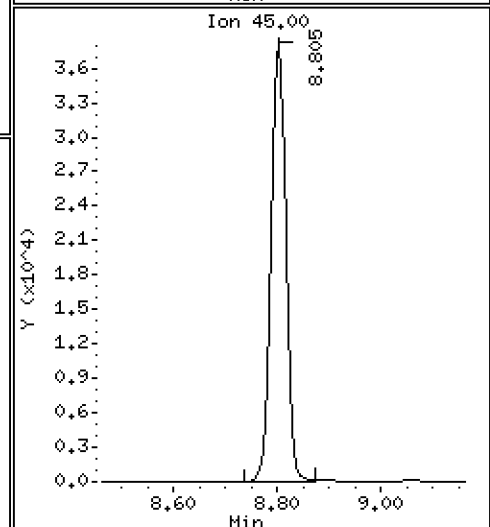
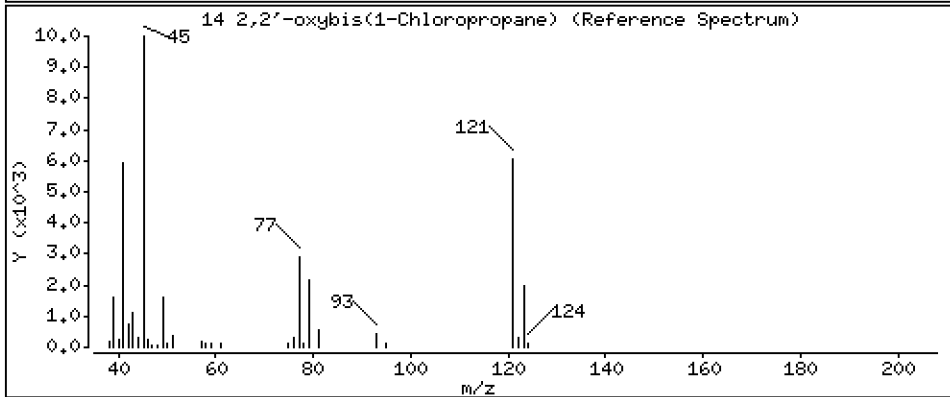
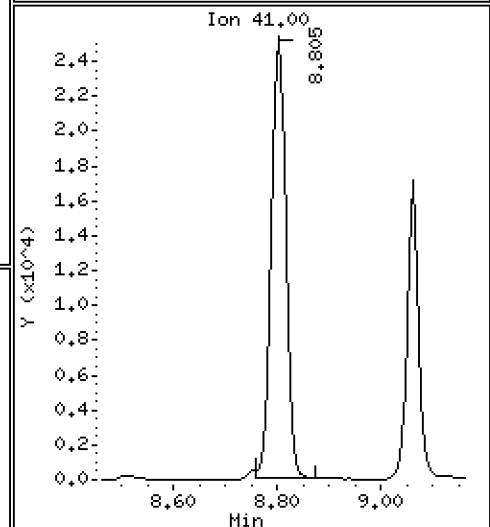
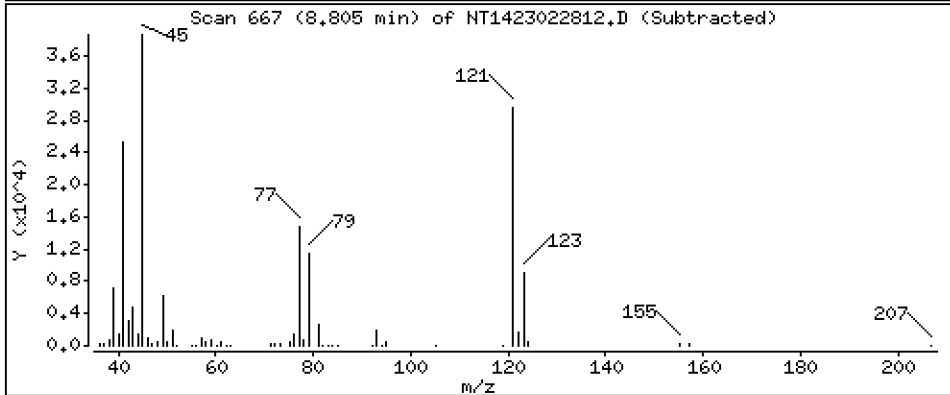
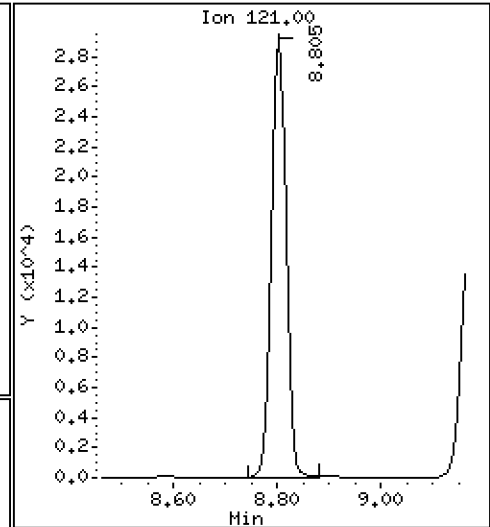
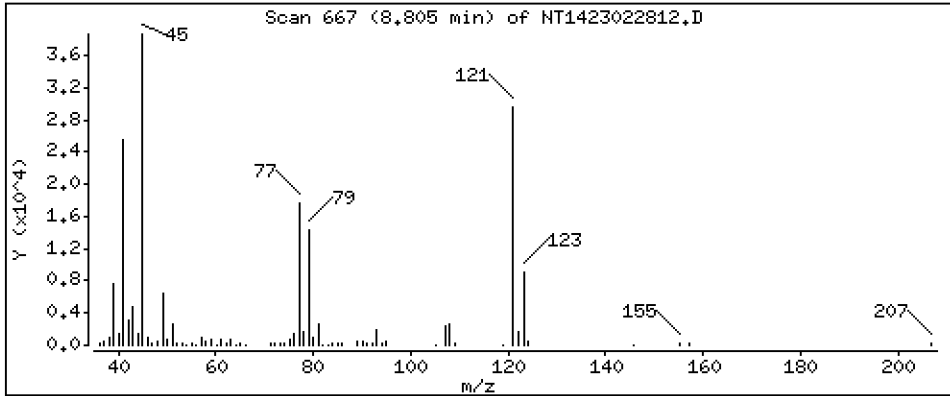
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 5,510 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

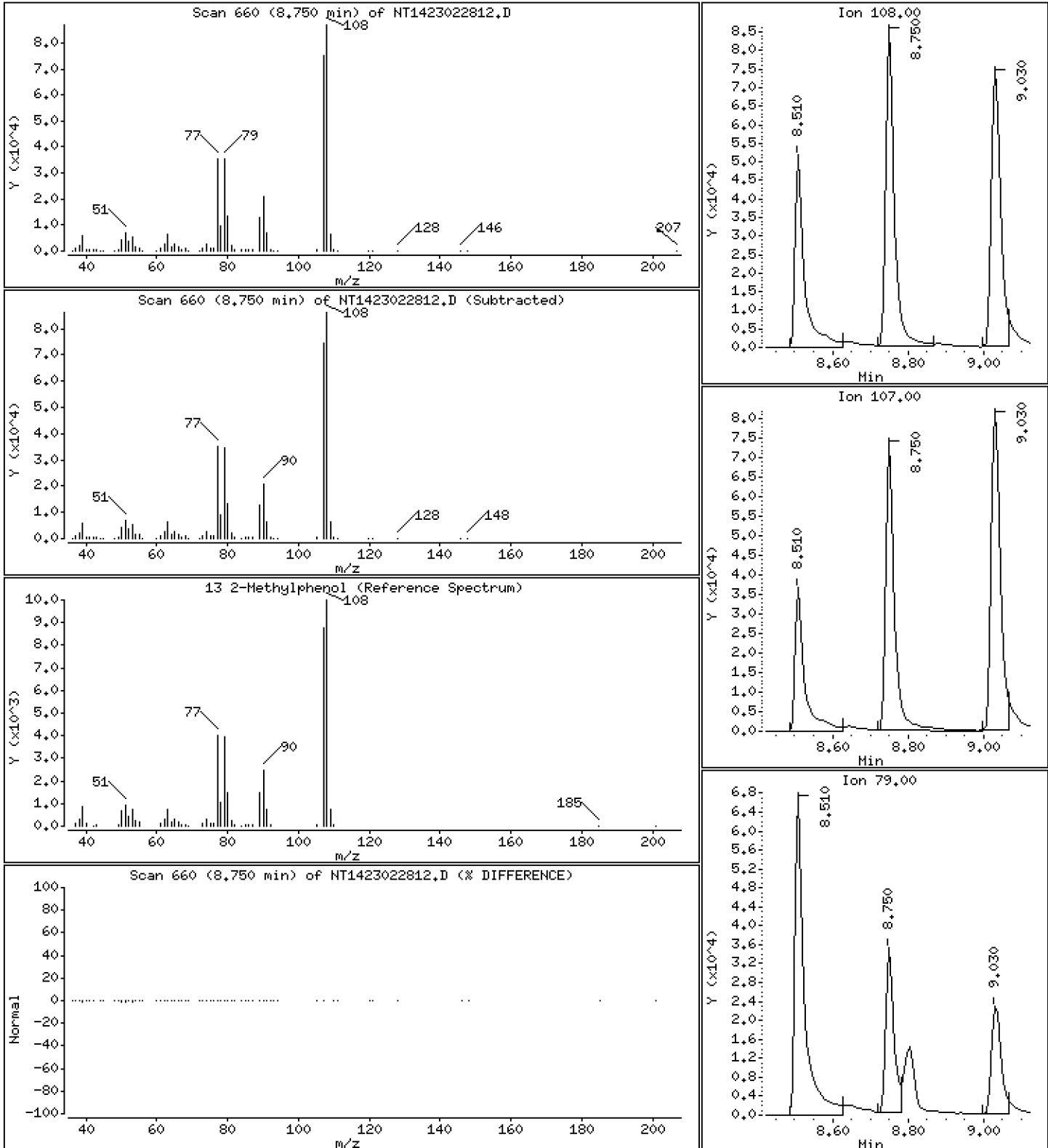
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.407 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

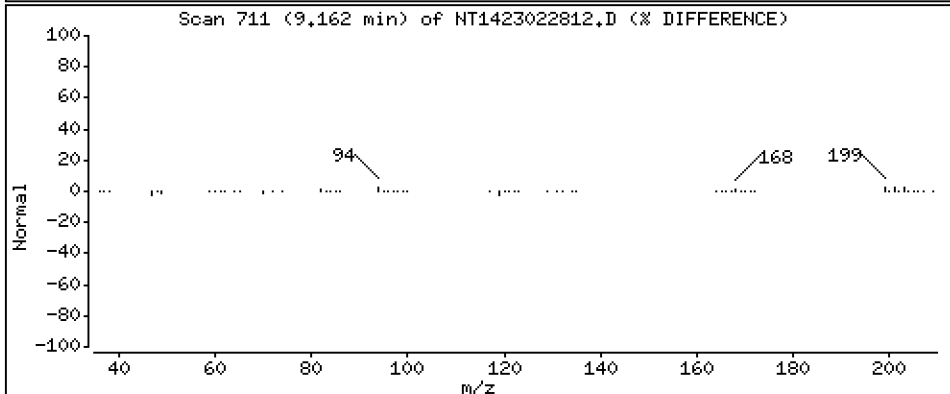
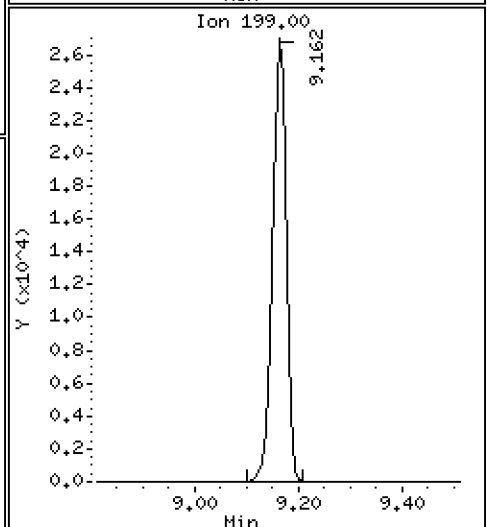
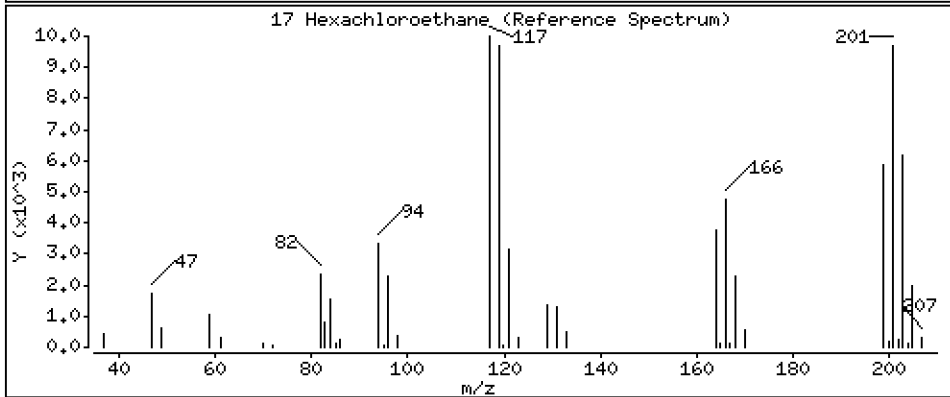
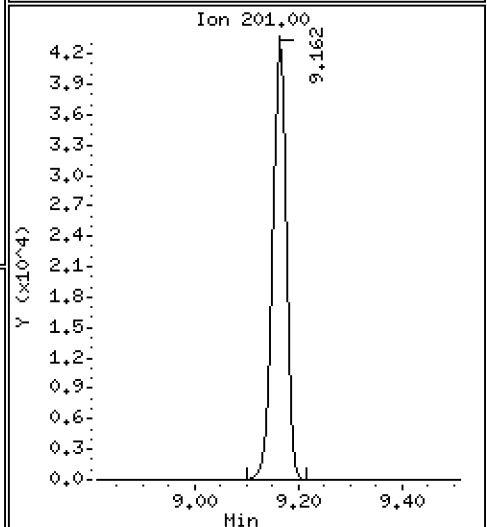
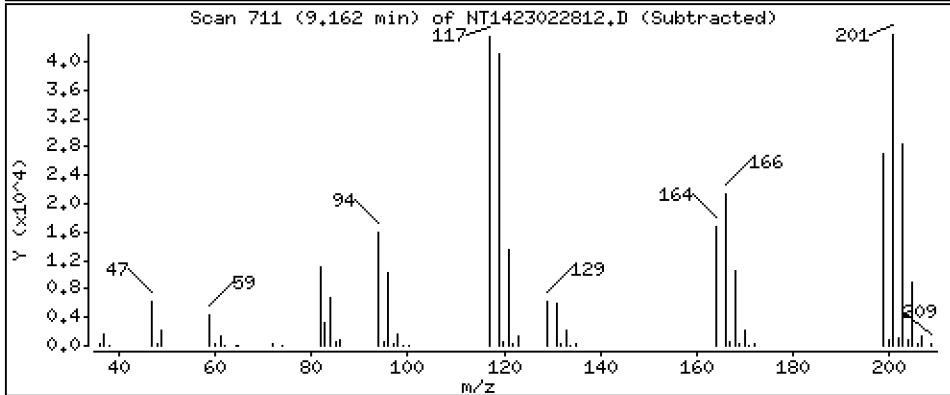
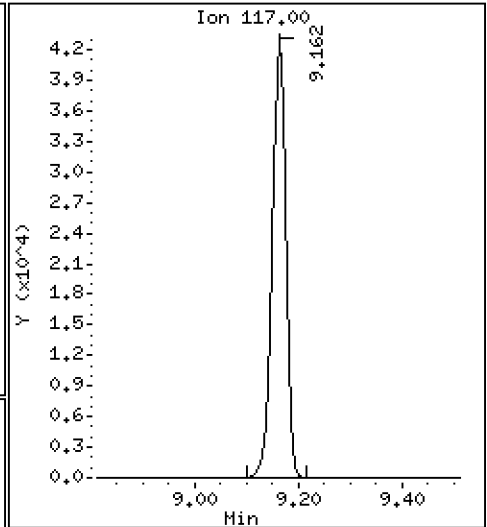
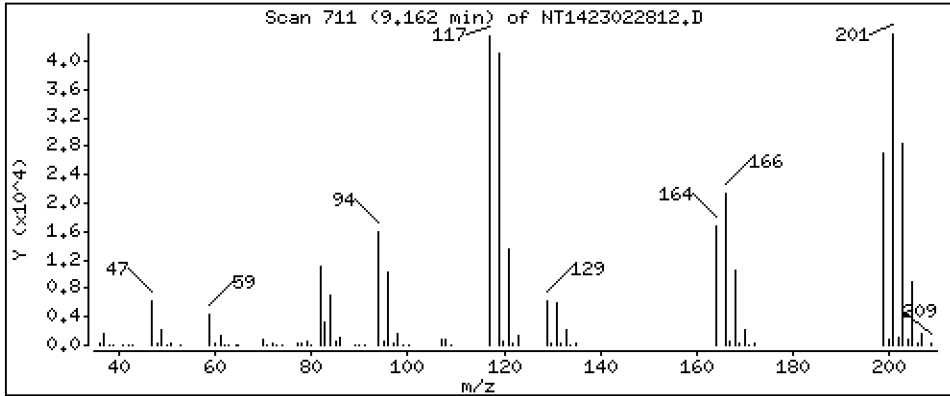
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 5.089 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

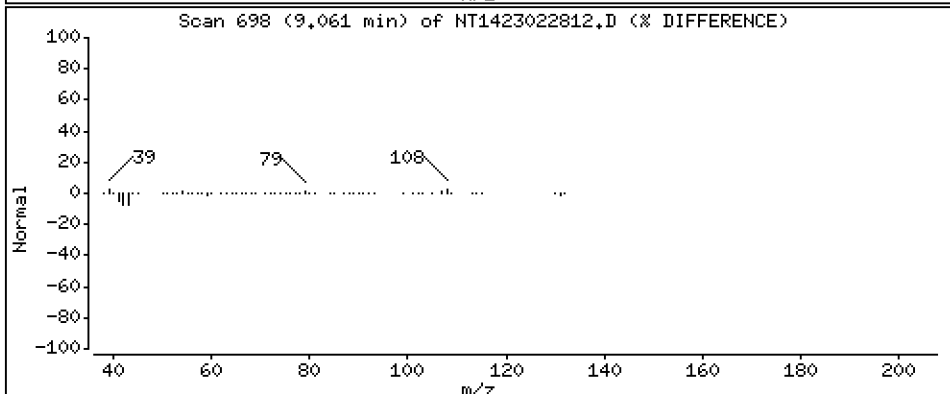
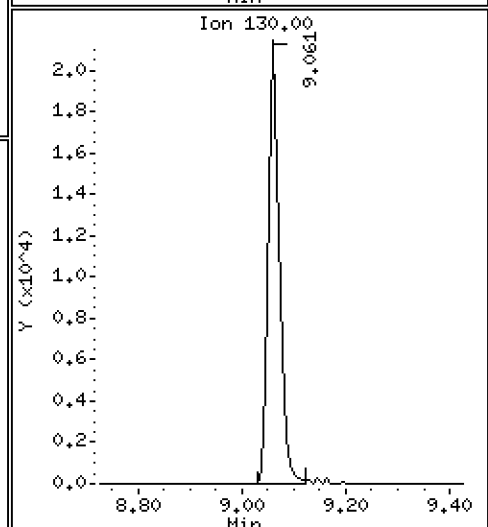
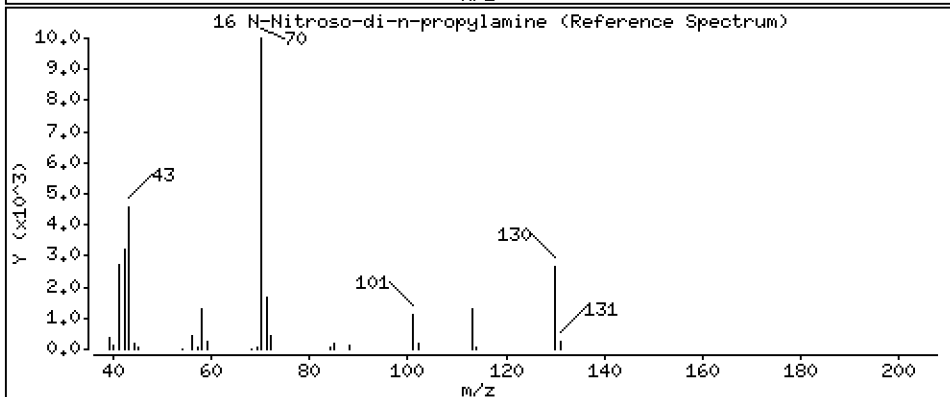
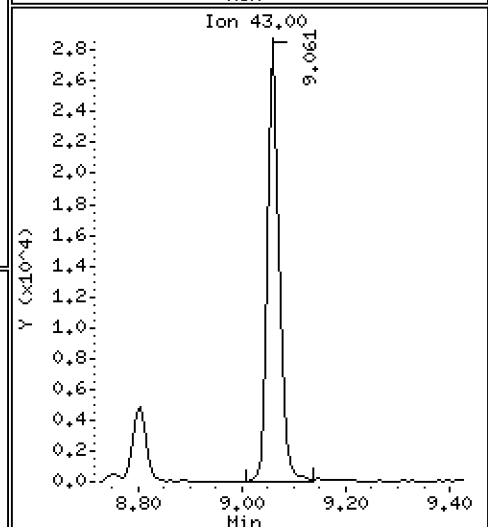
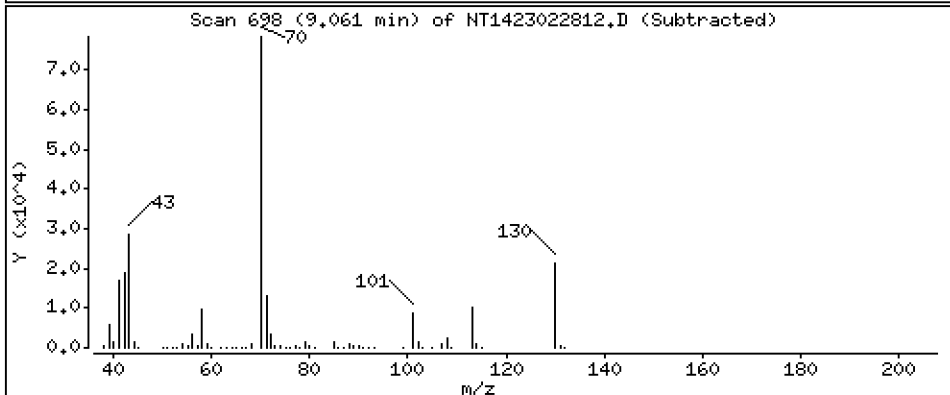
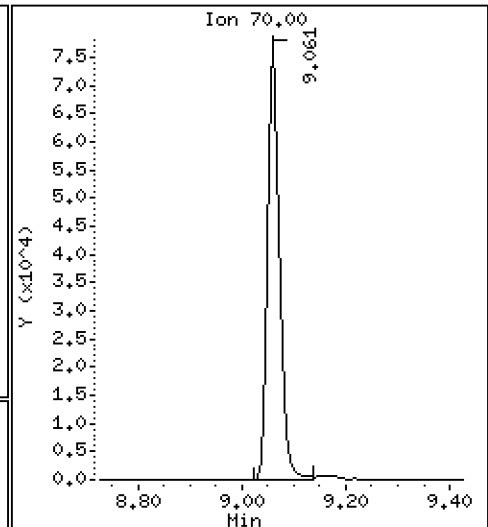
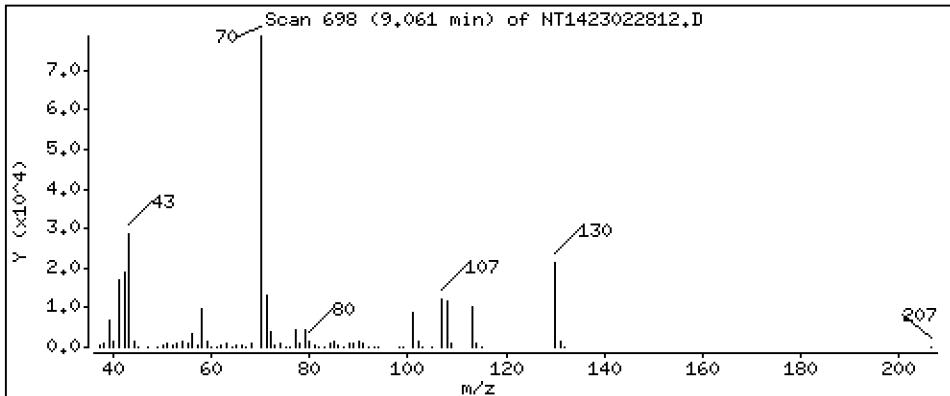
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 5.138 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

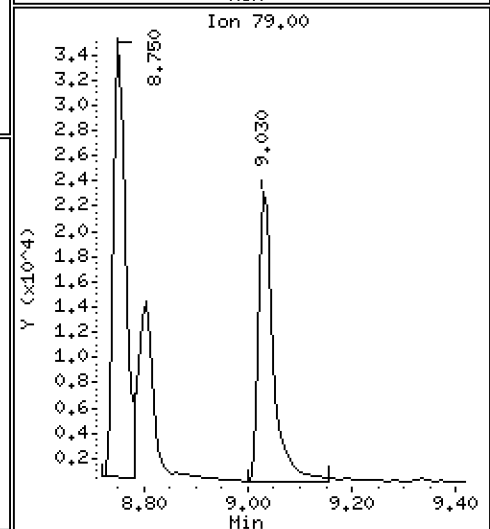
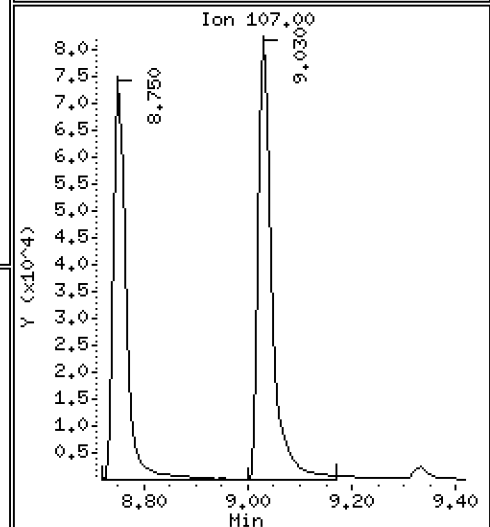
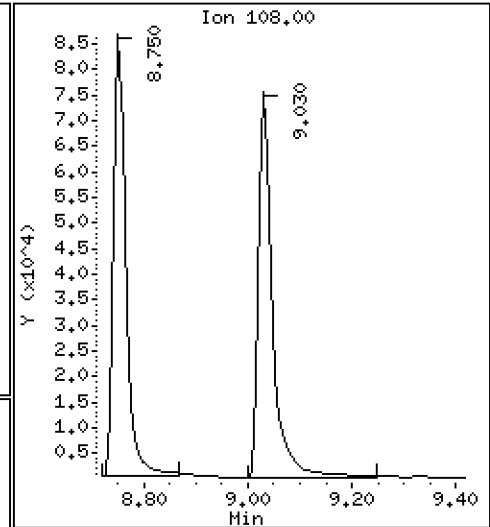
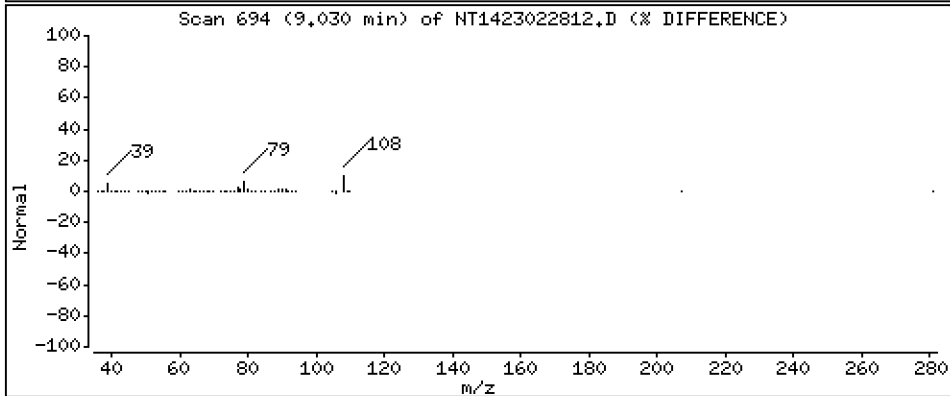
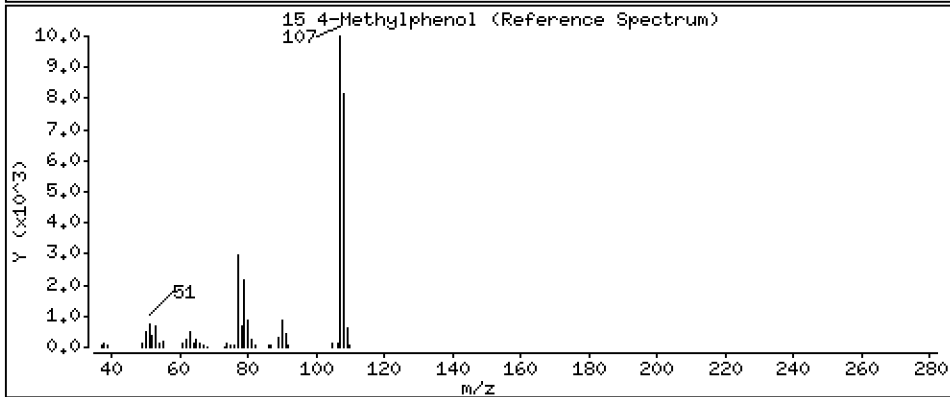
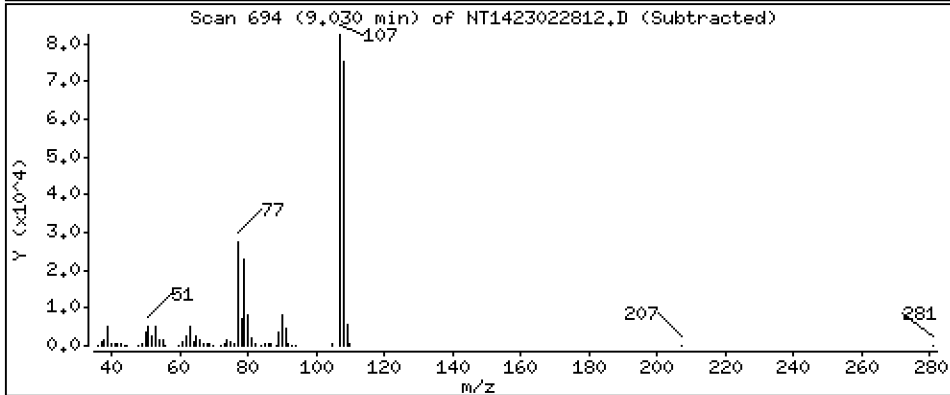
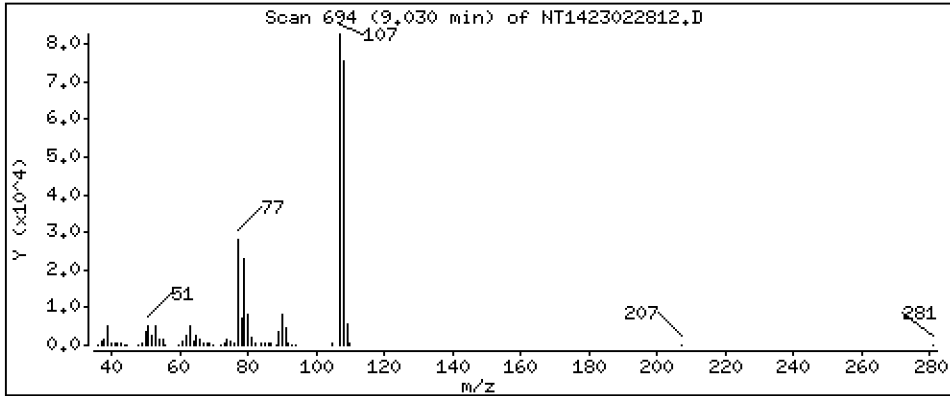
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 4.218 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

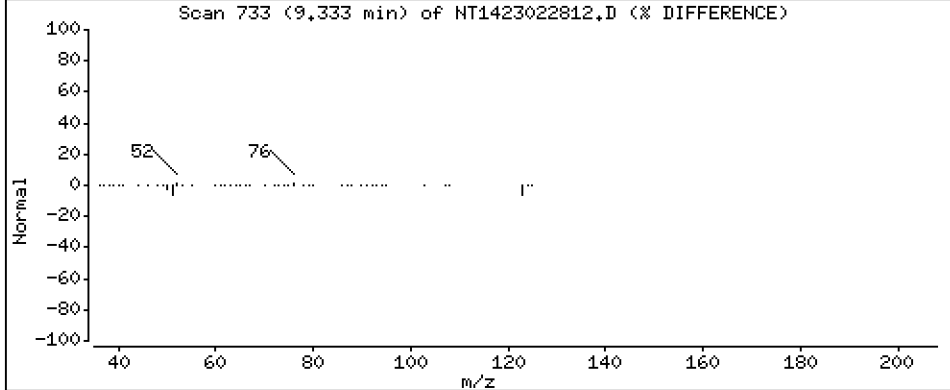
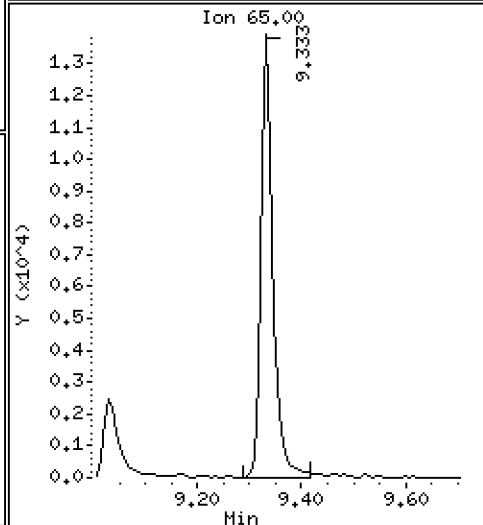
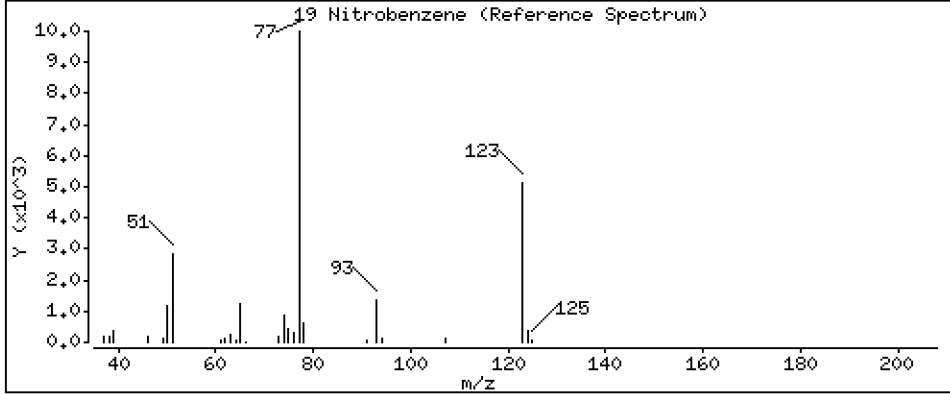
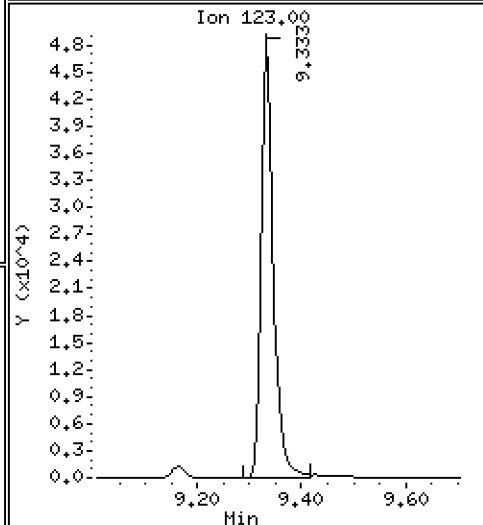
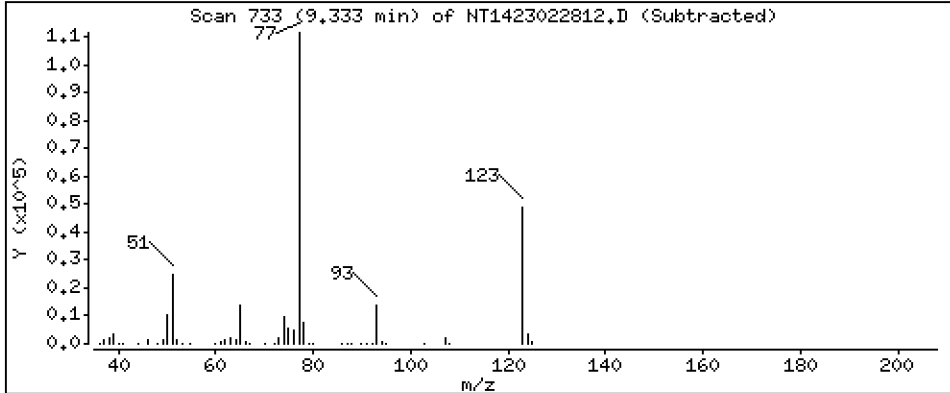
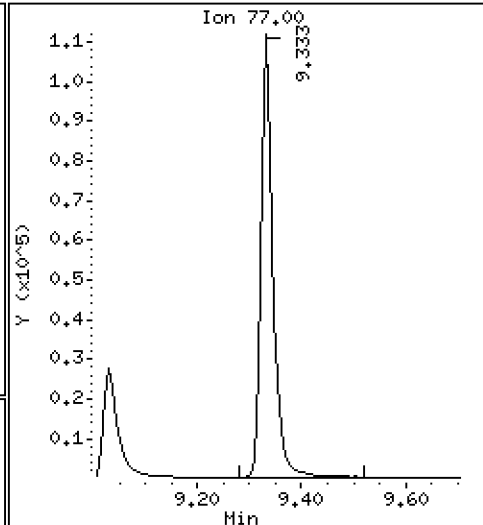
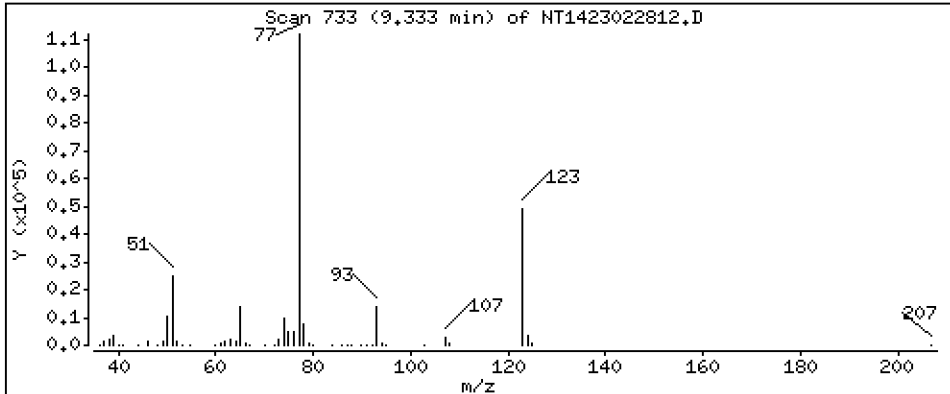
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 5,059 ug/mL

19 Nitrobenzene



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

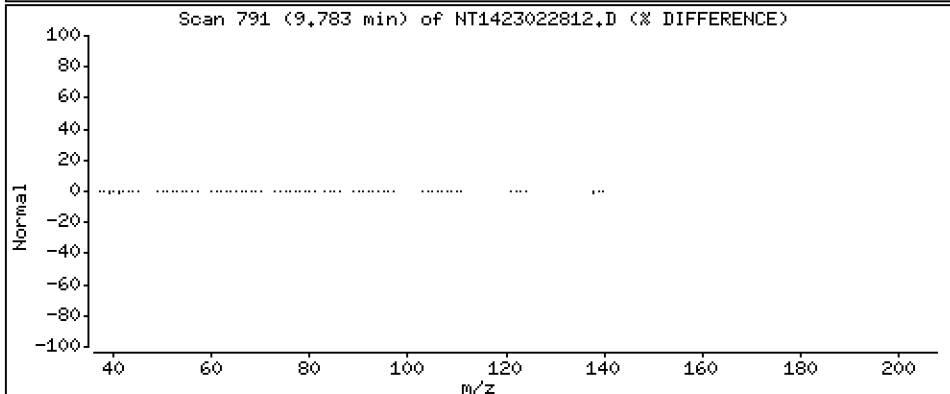
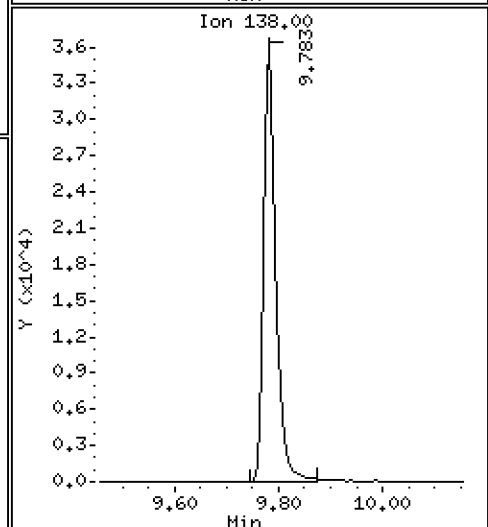
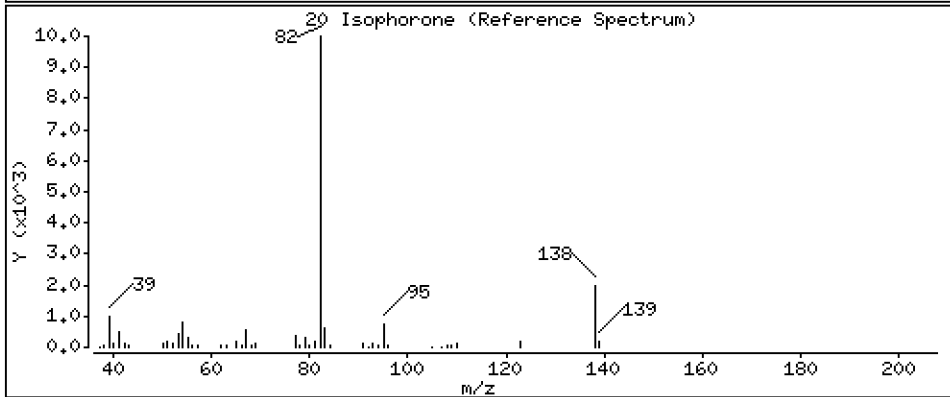
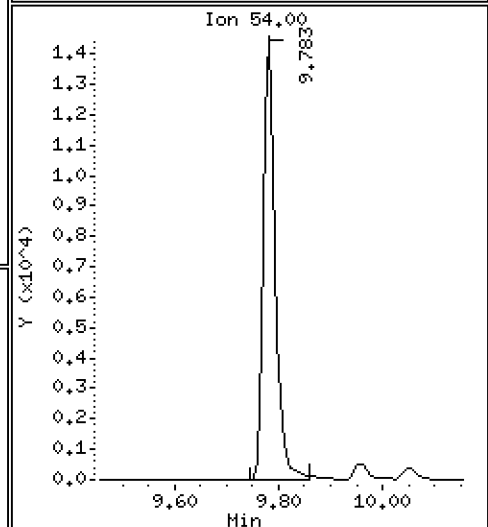
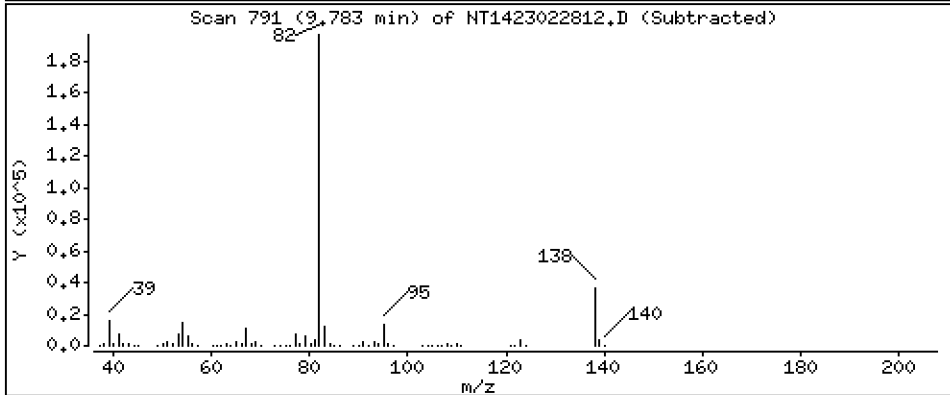
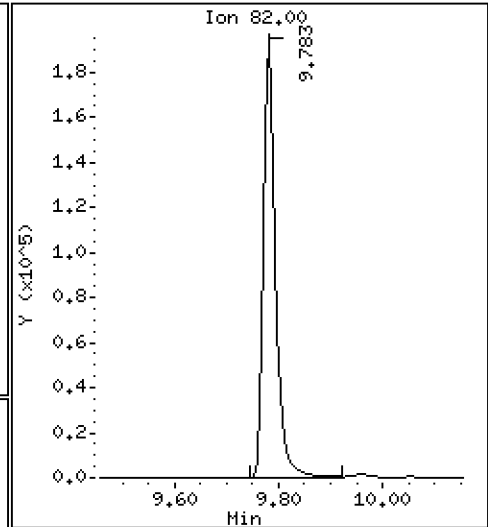
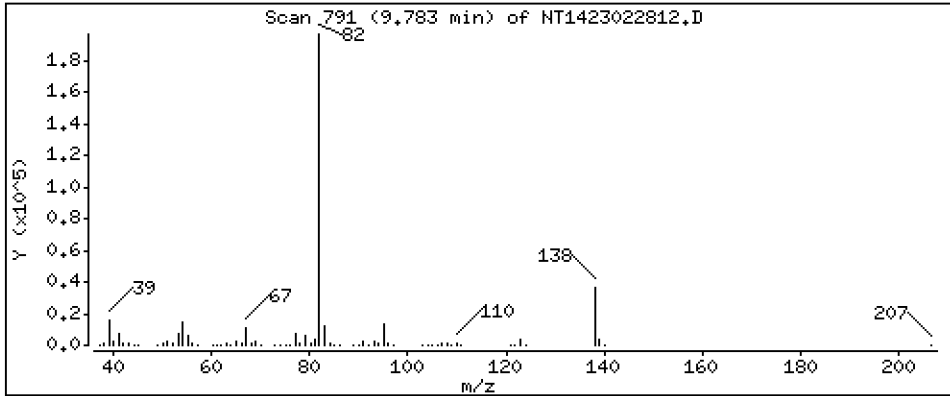
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 6.410 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

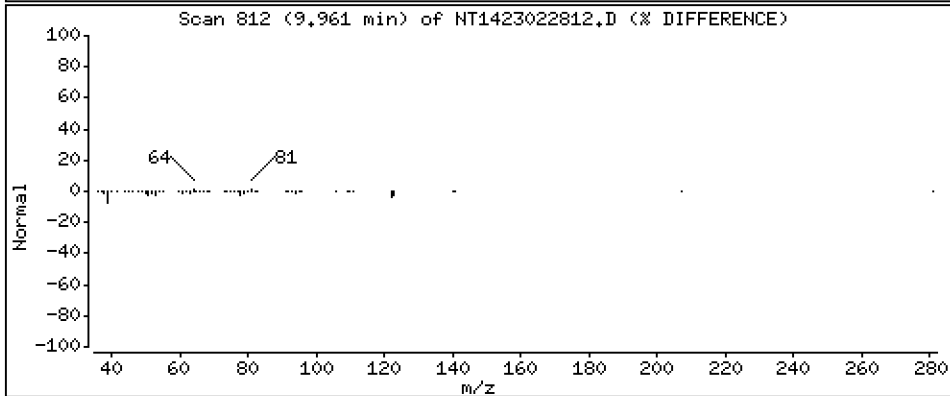
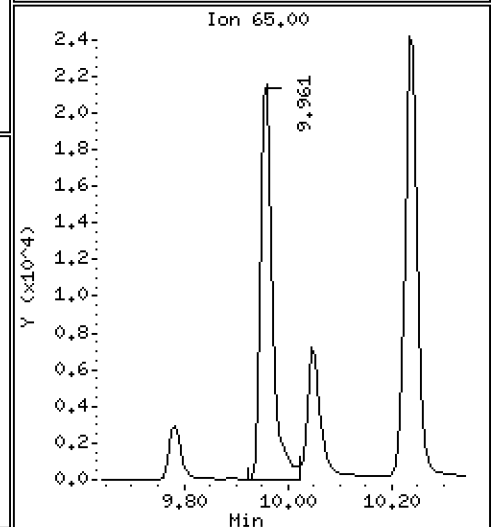
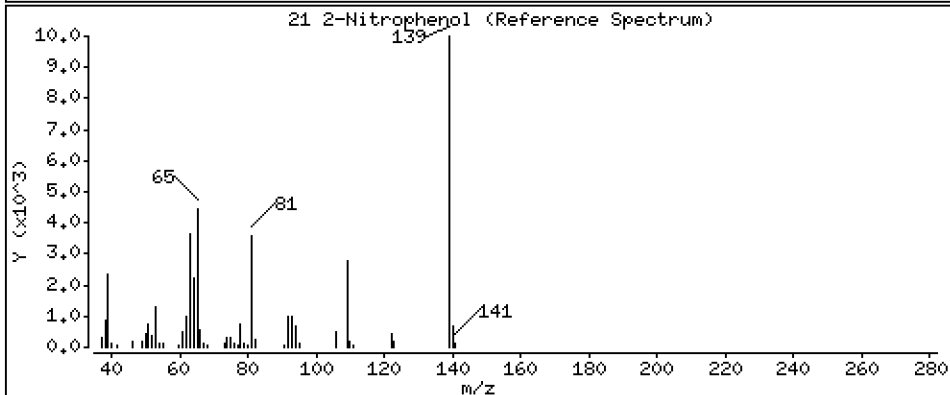
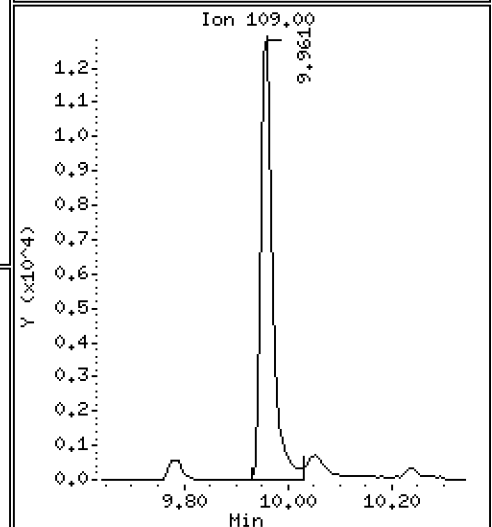
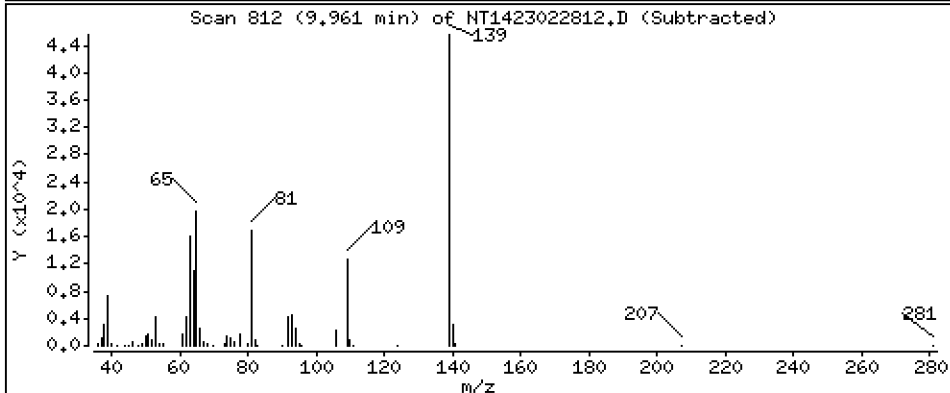
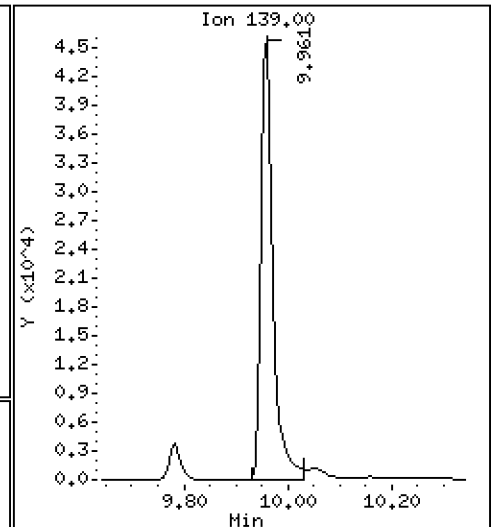
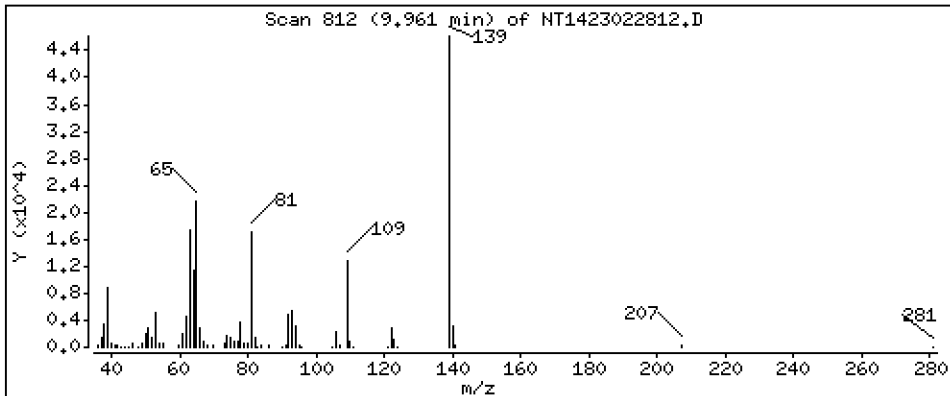
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,126 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

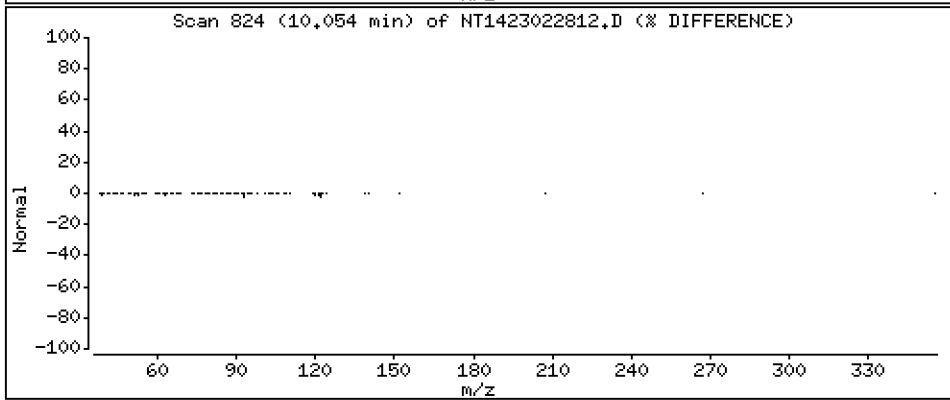
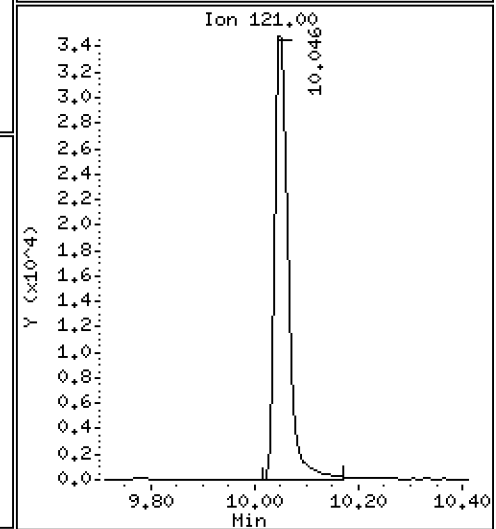
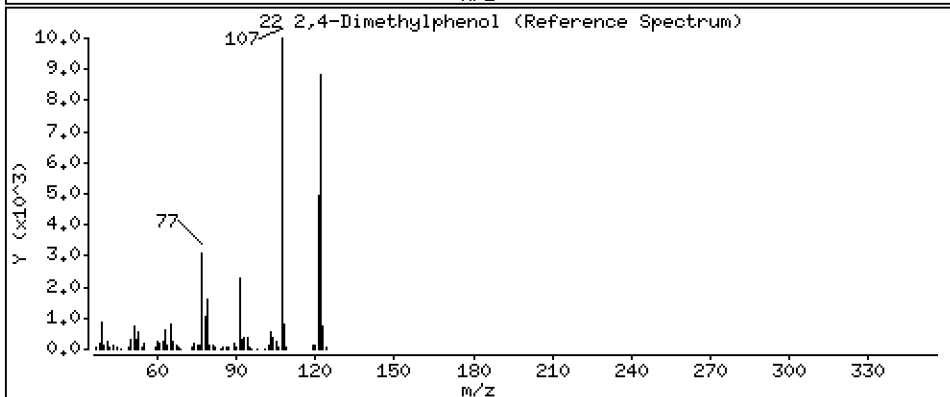
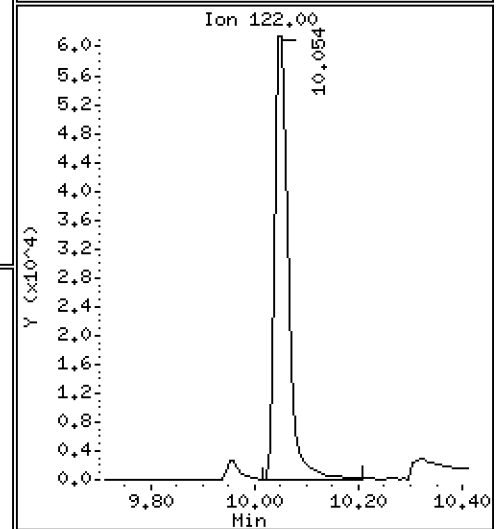
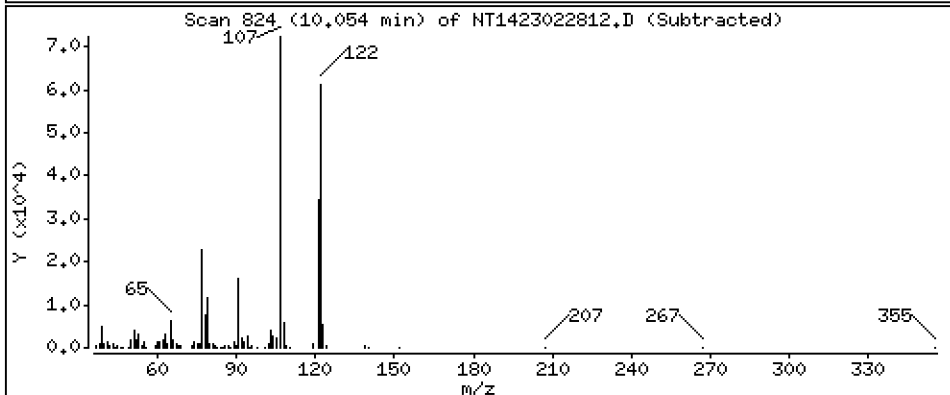
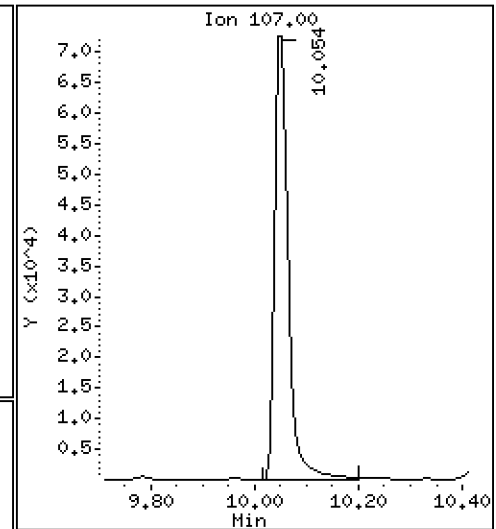
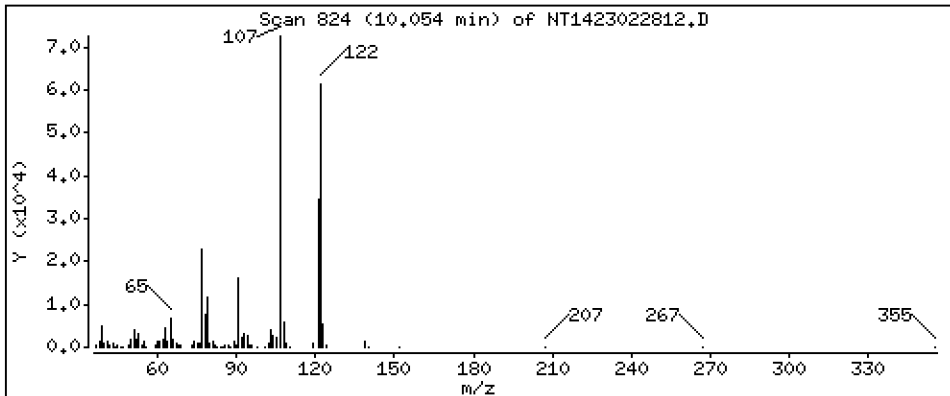
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 3,890 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

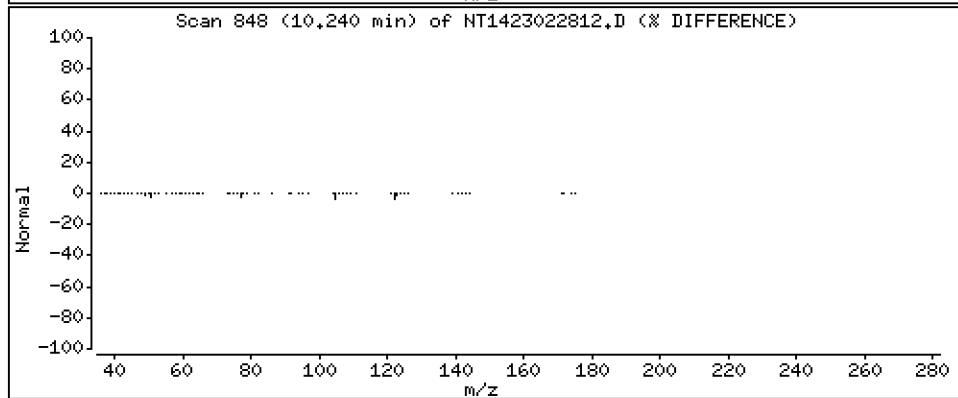
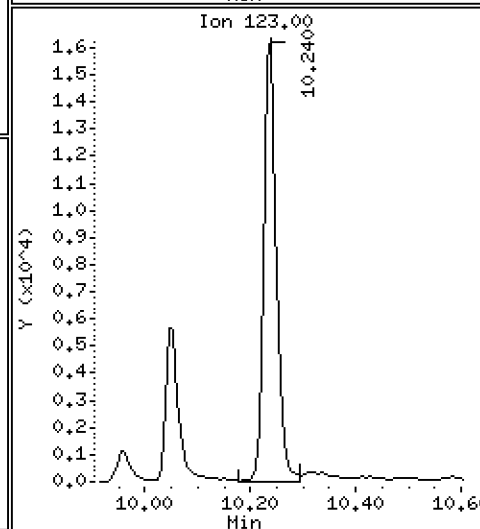
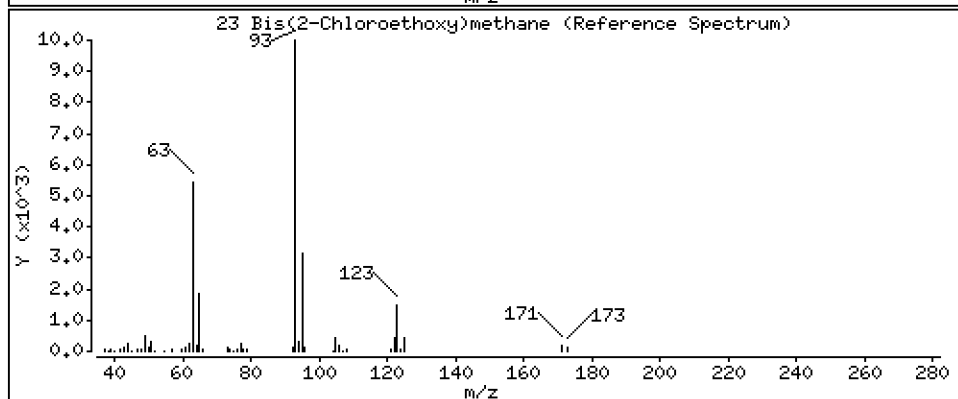
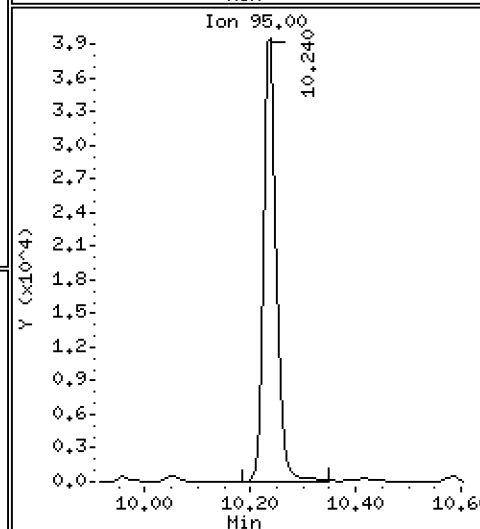
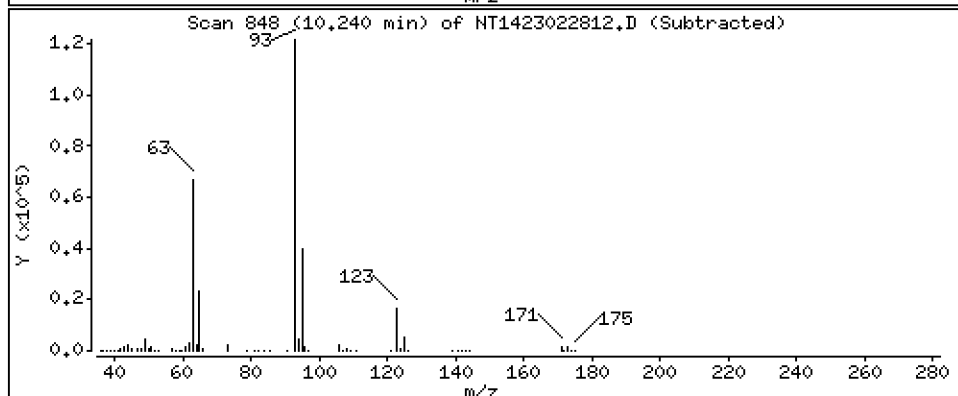
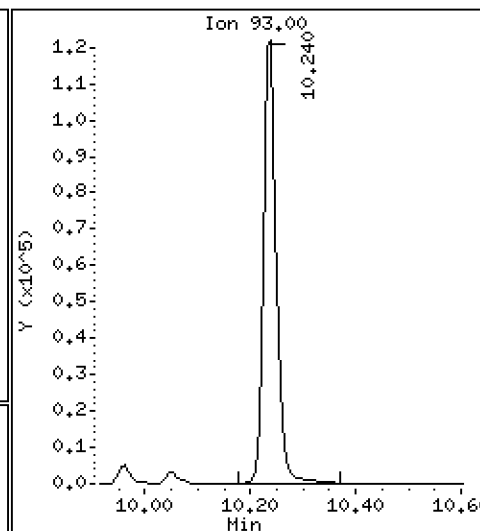
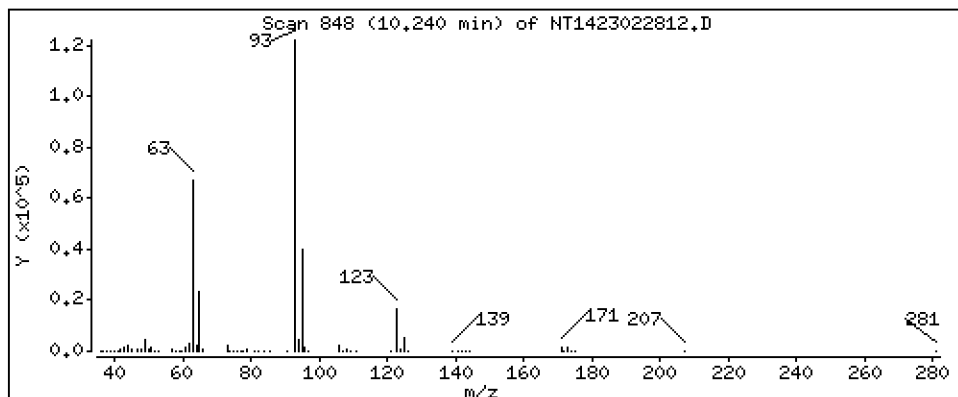
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,764 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

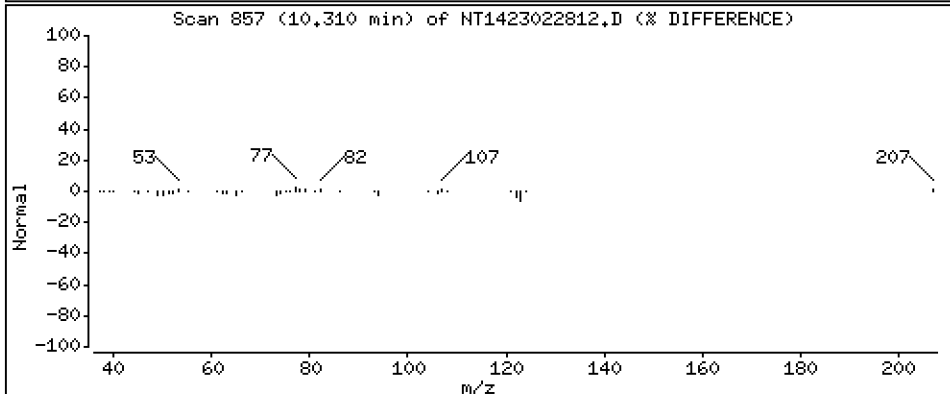
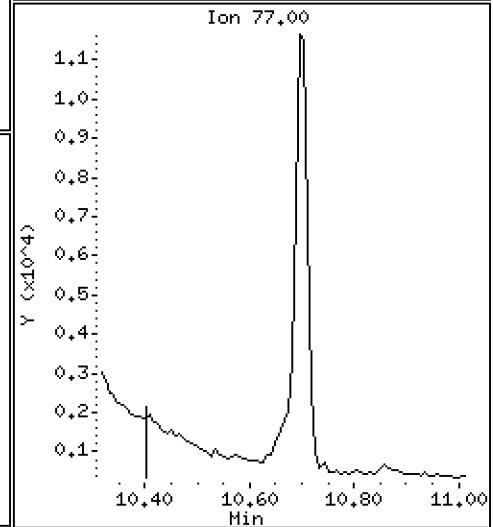
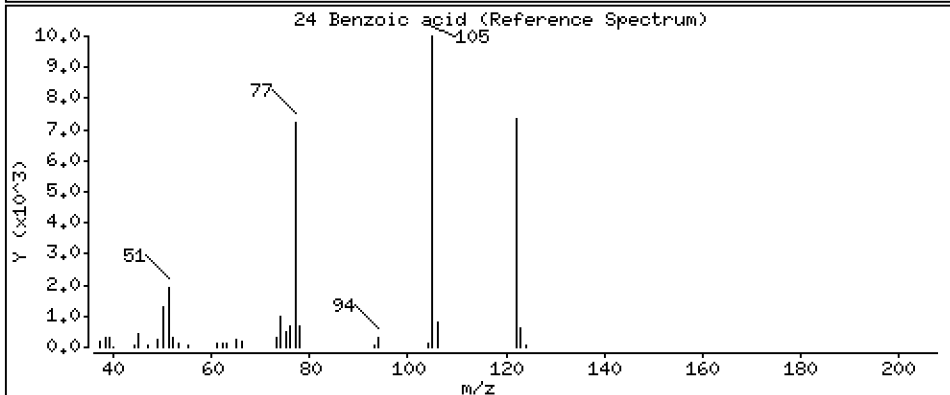
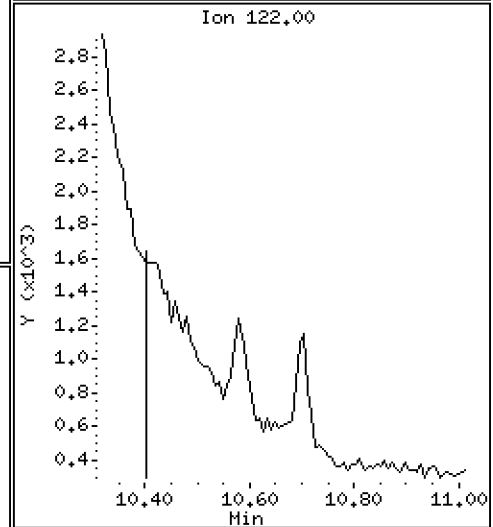
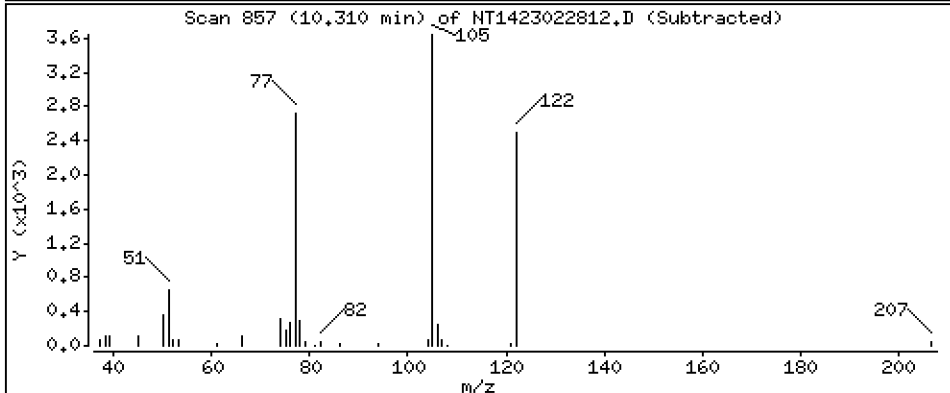
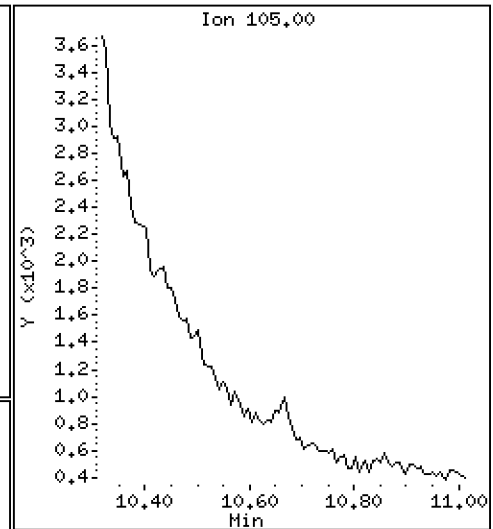
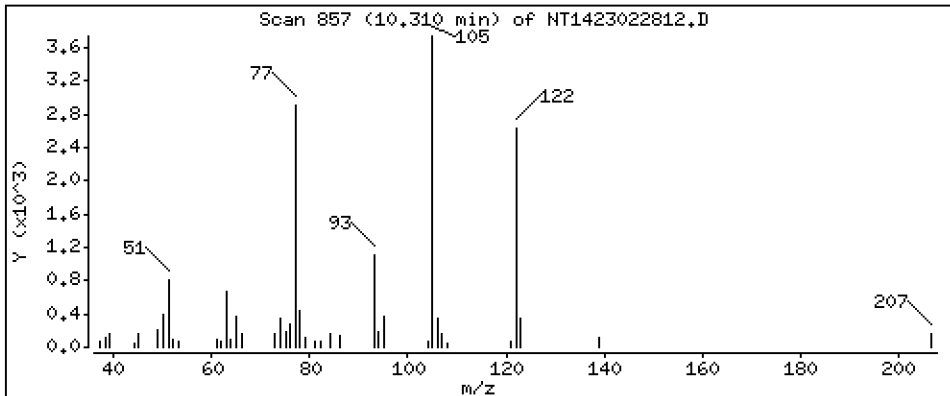
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 4.071 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

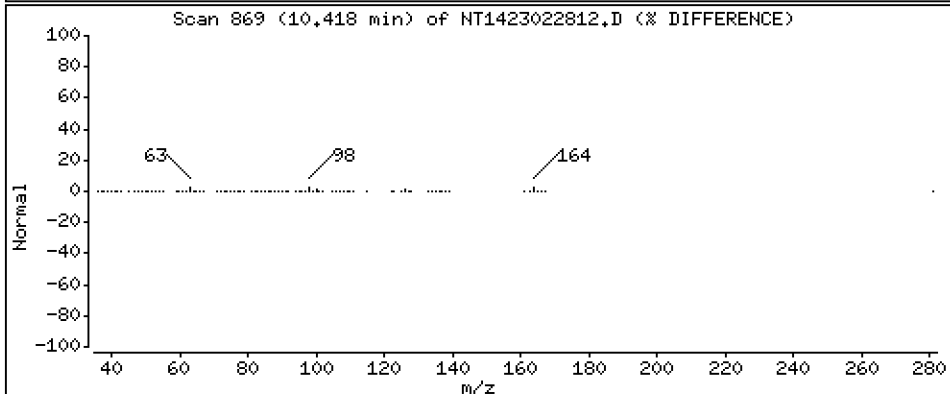
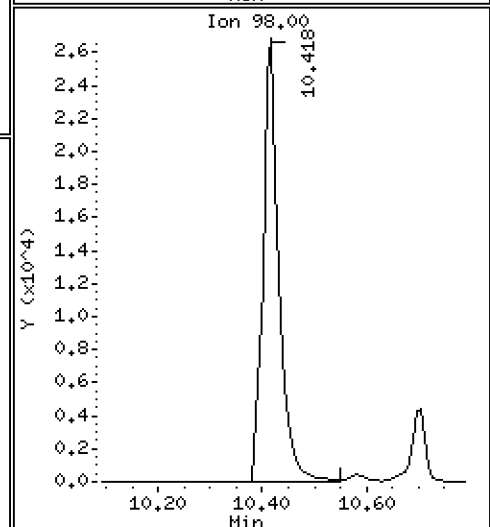
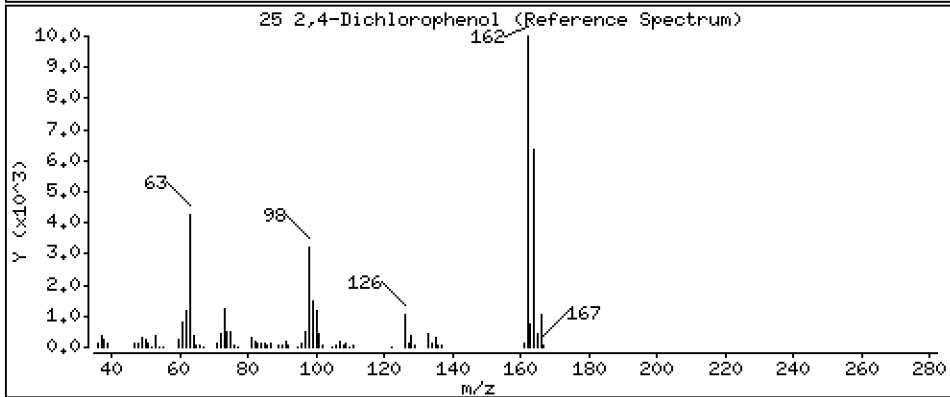
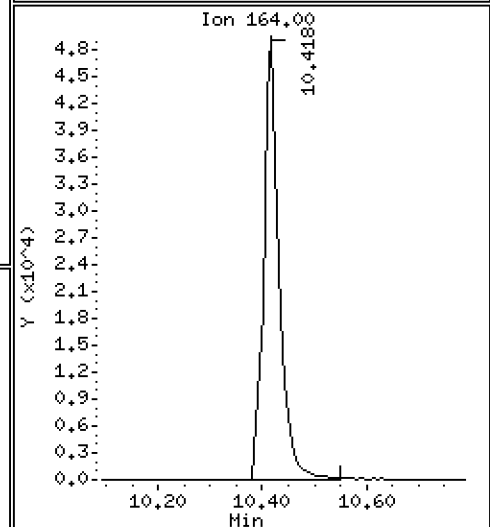
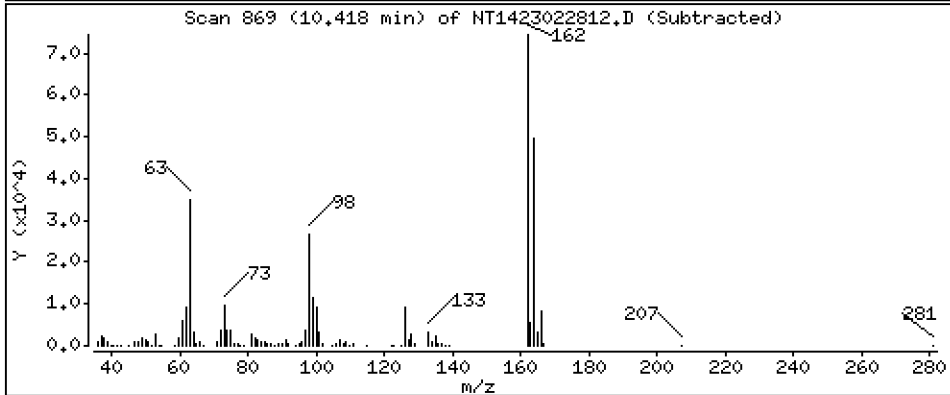
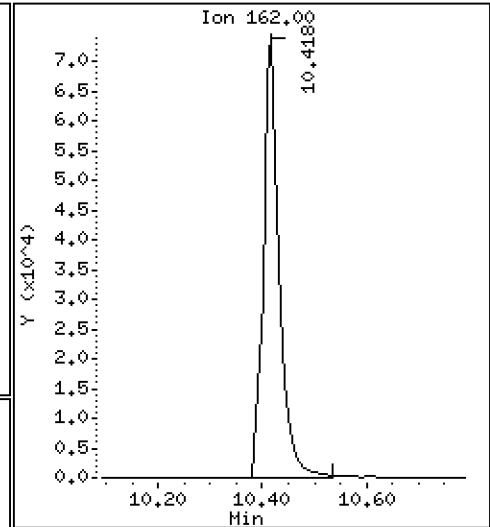
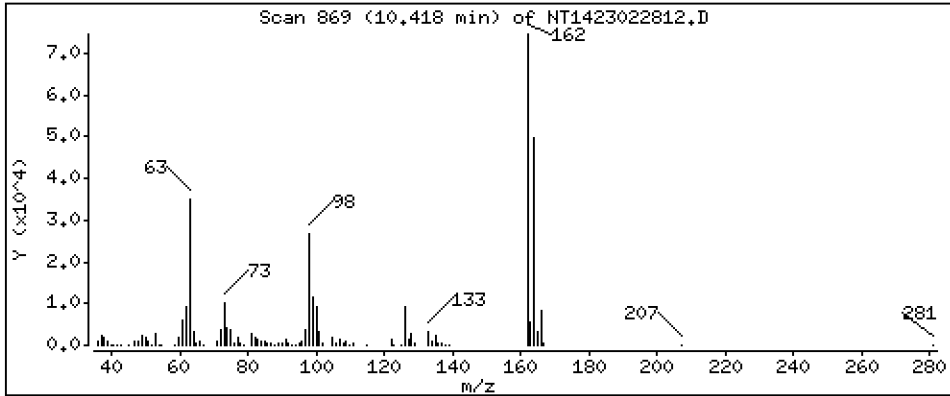
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 4,783 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

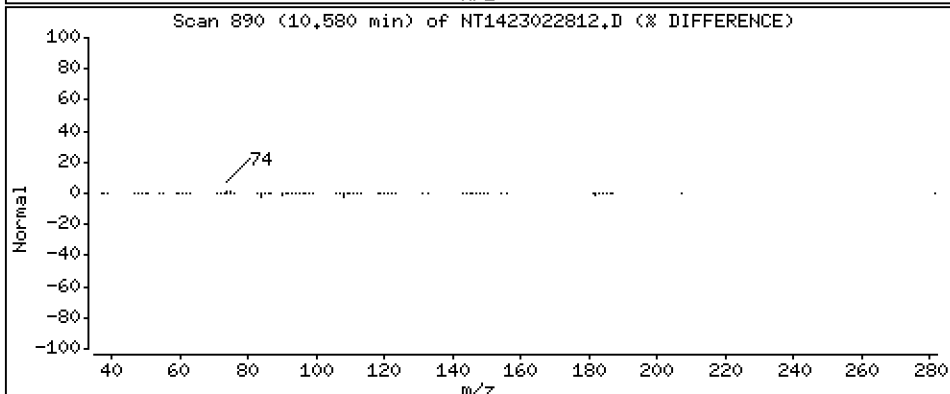
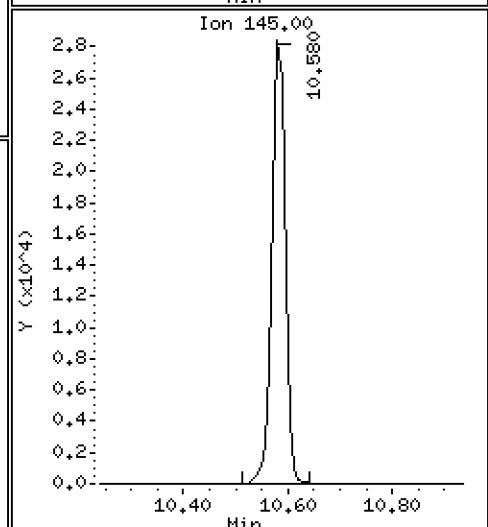
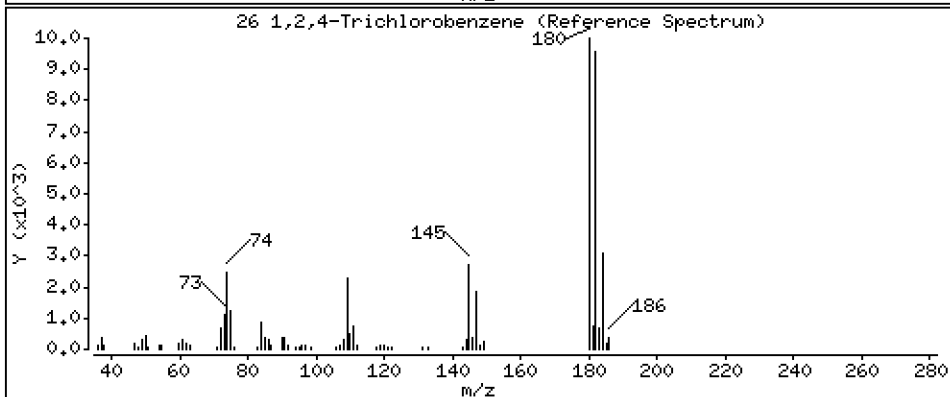
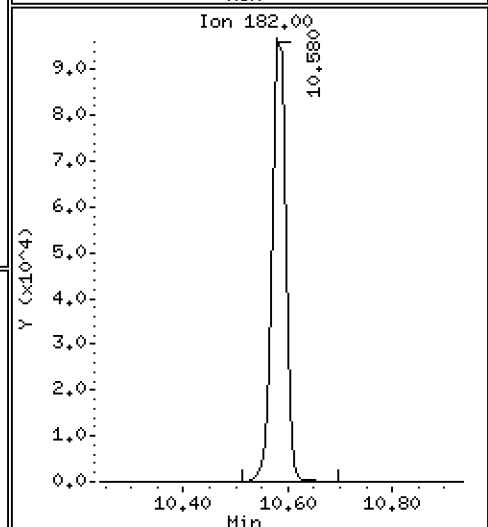
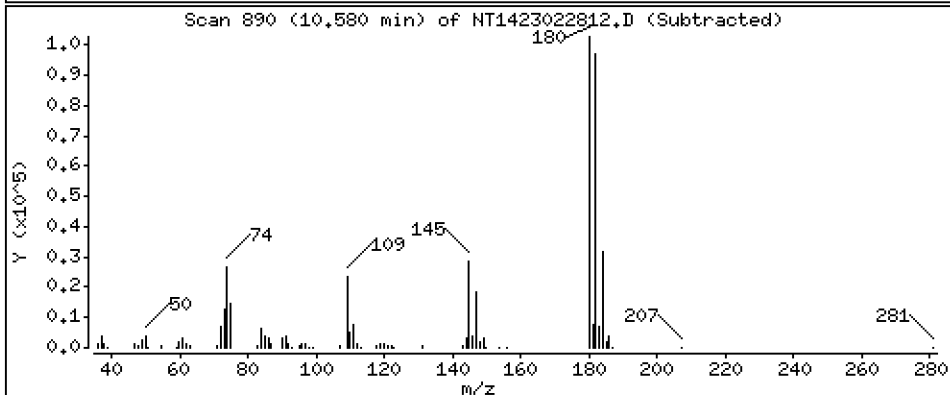
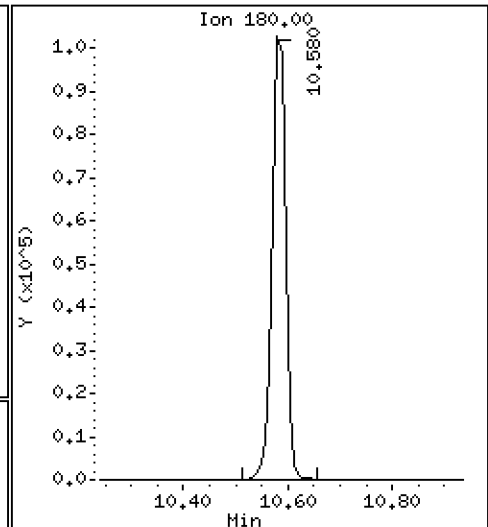
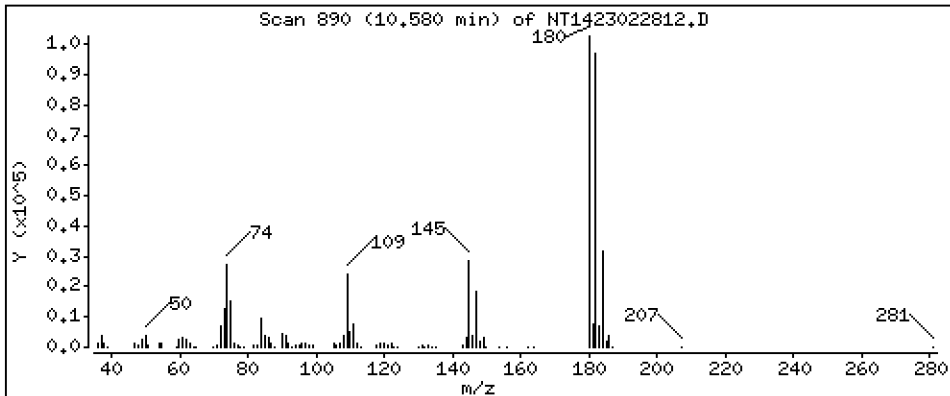
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,789 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

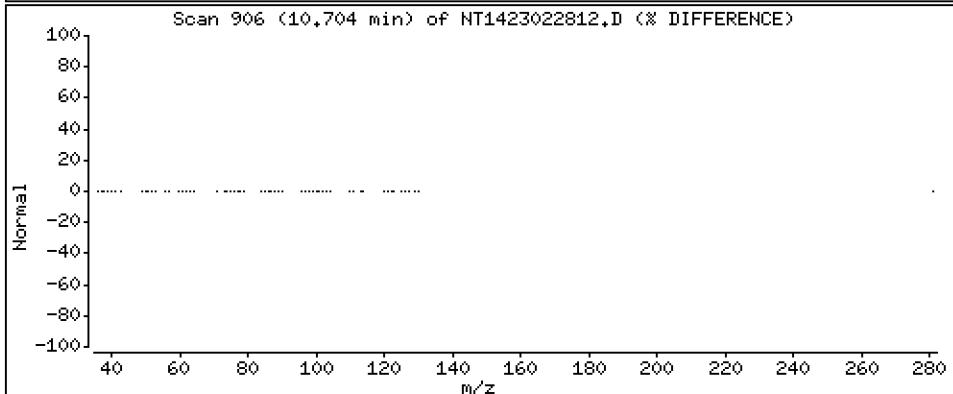
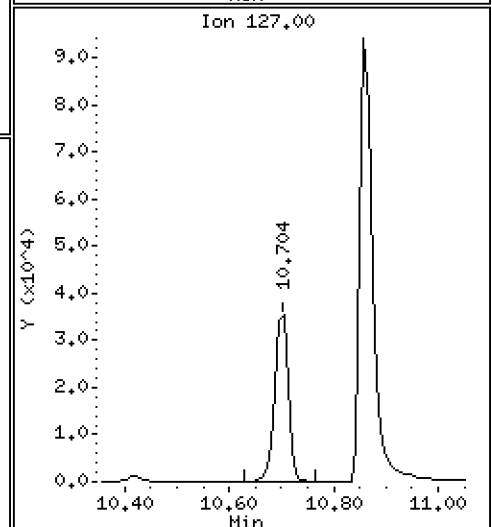
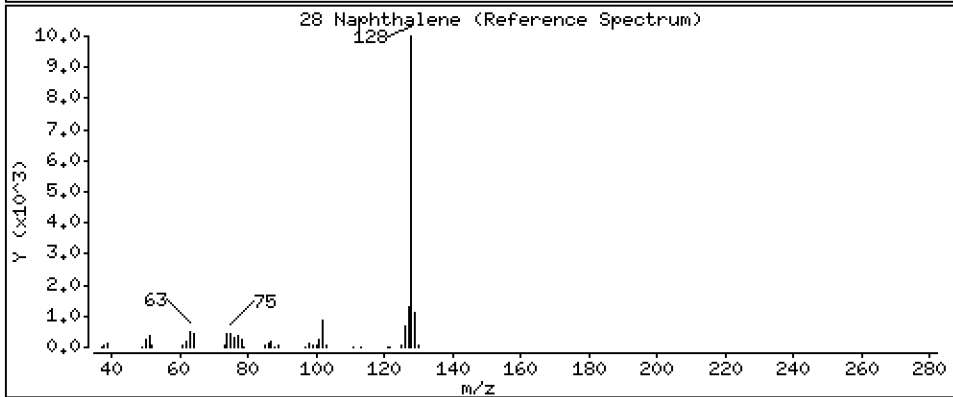
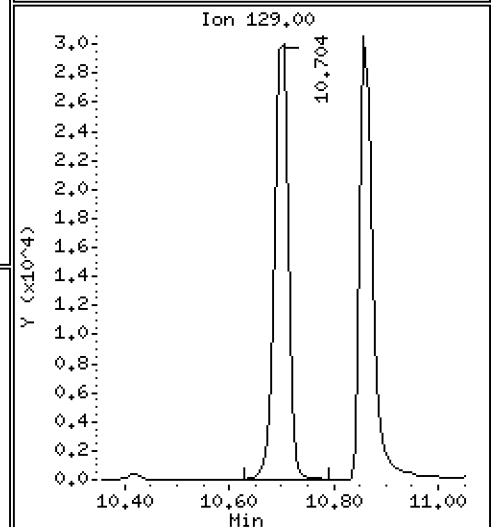
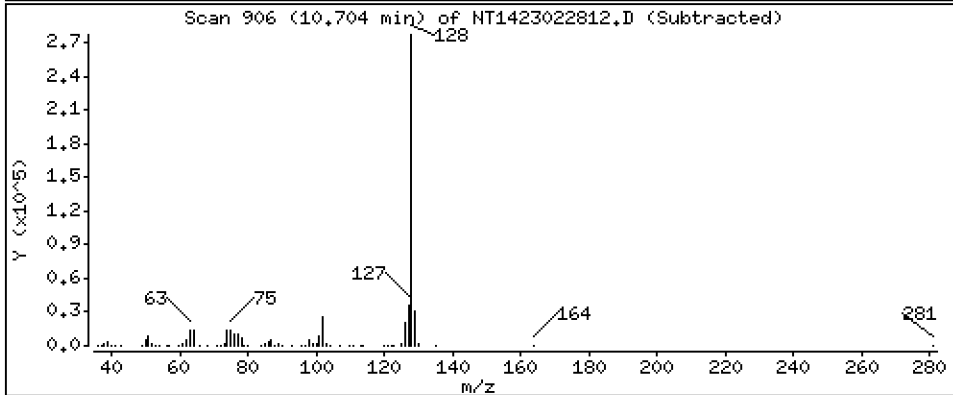
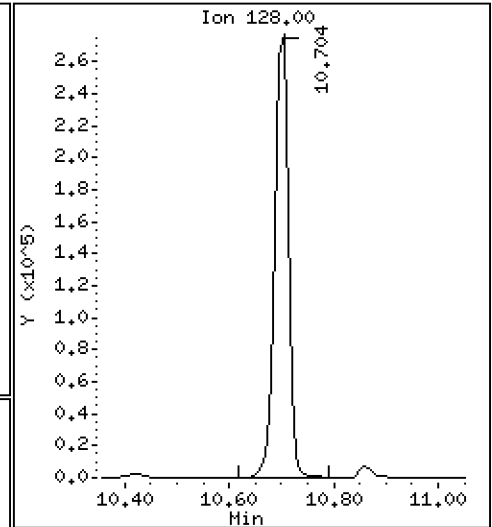
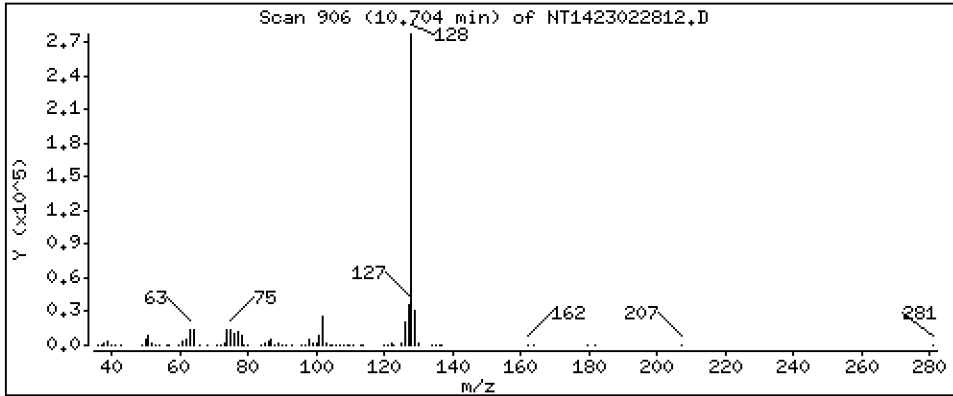
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,766 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

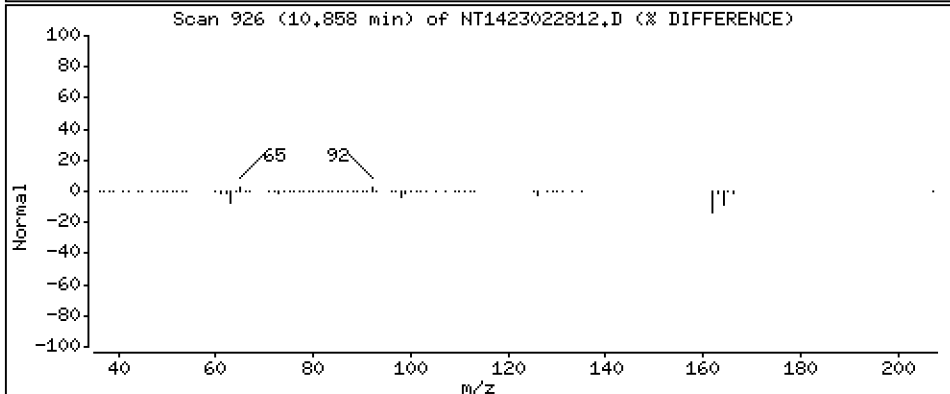
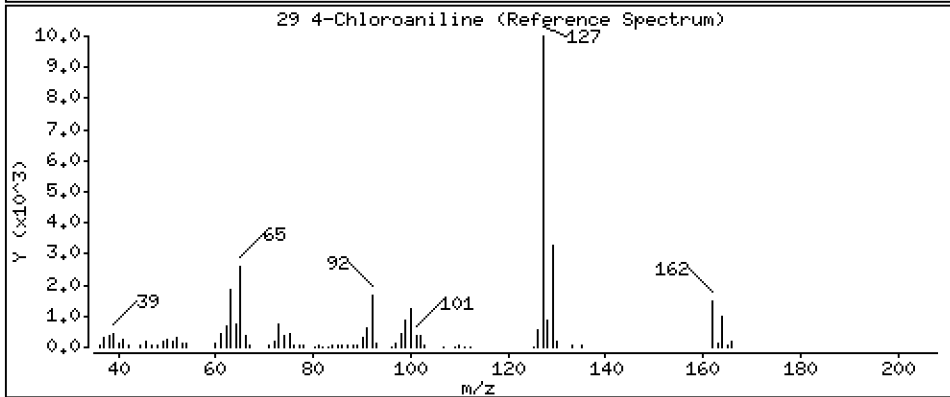
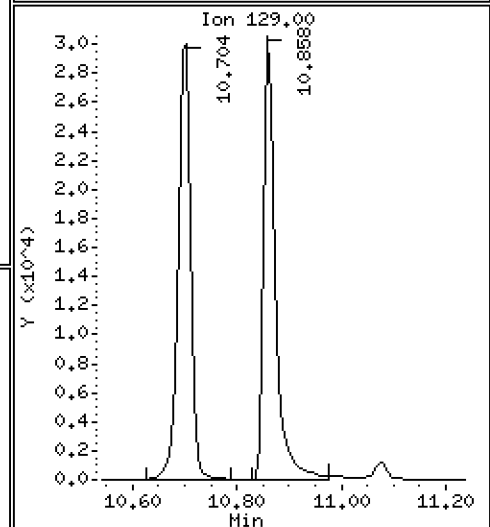
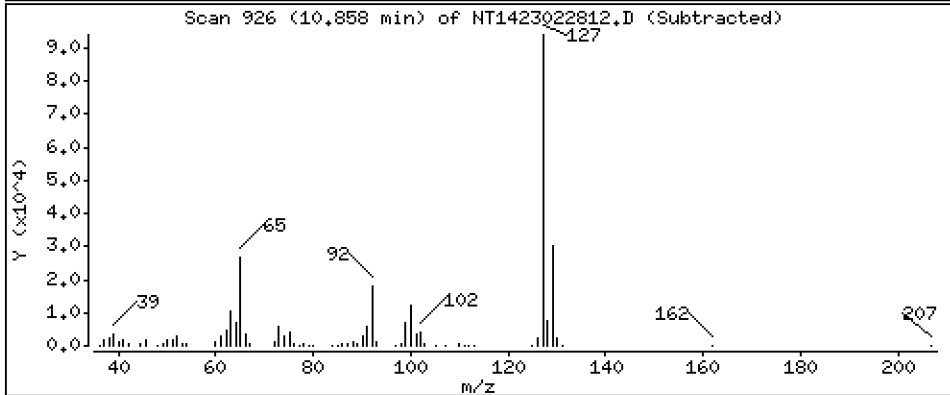
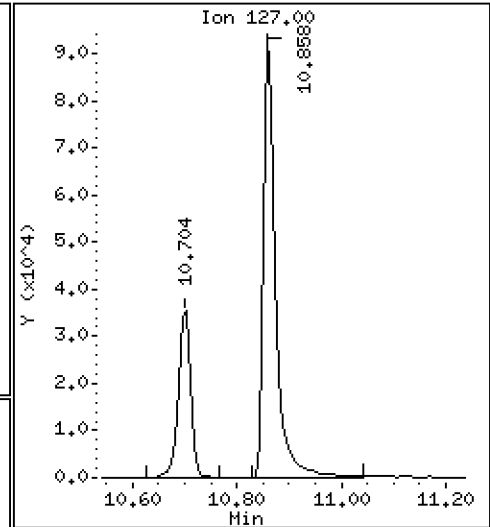
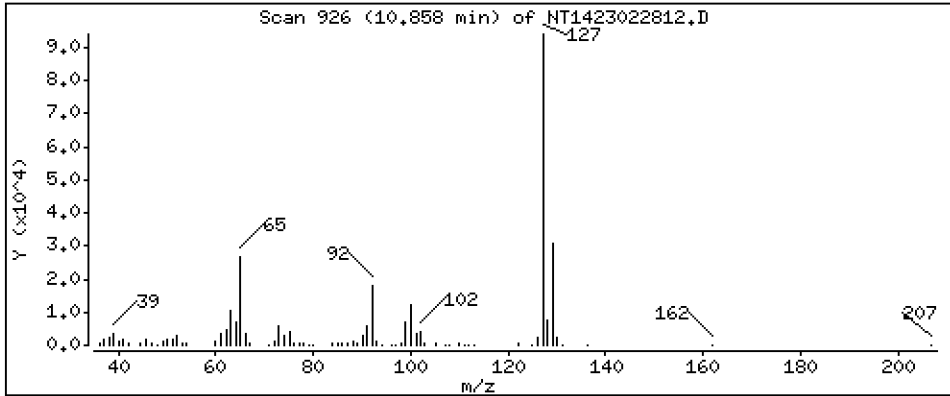
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 3,895 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

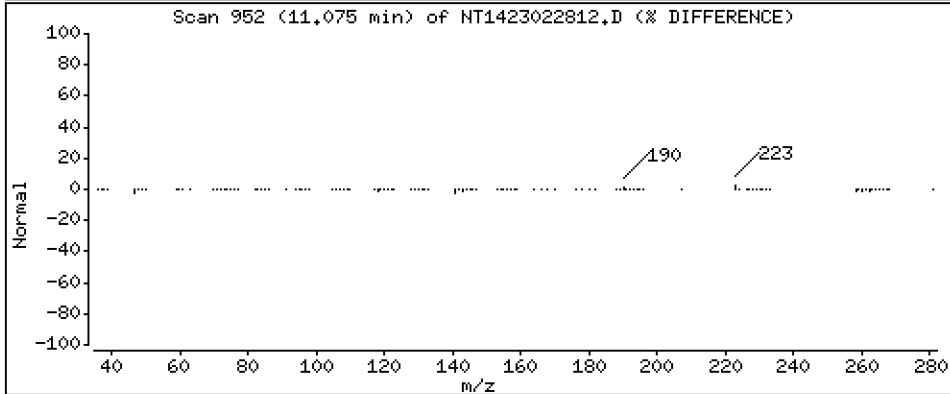
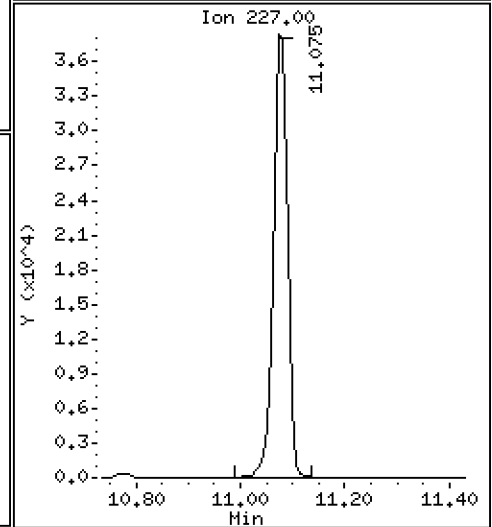
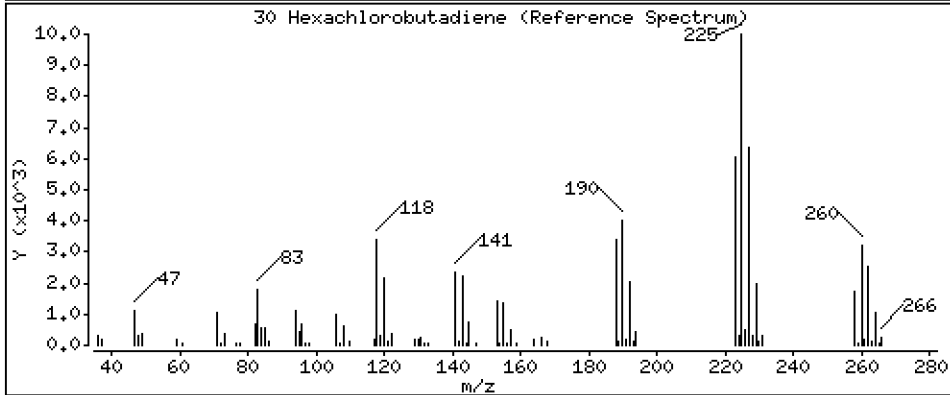
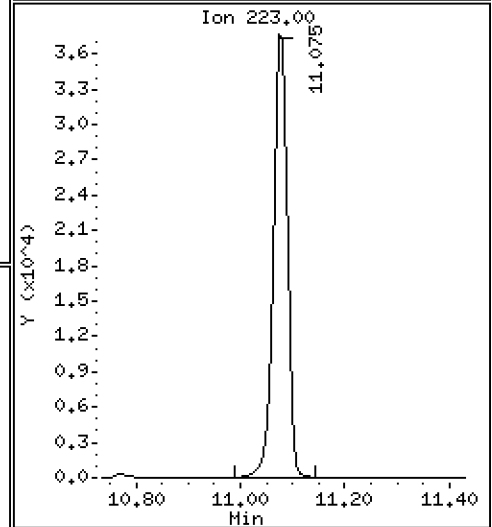
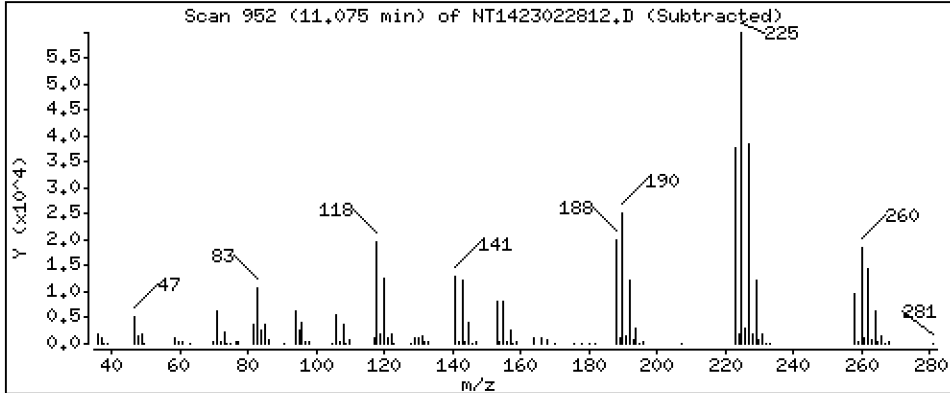
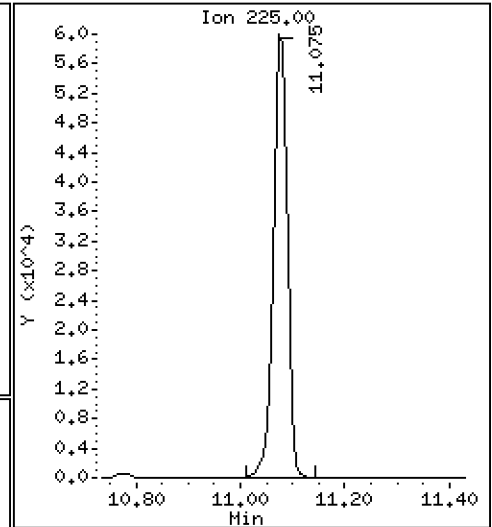
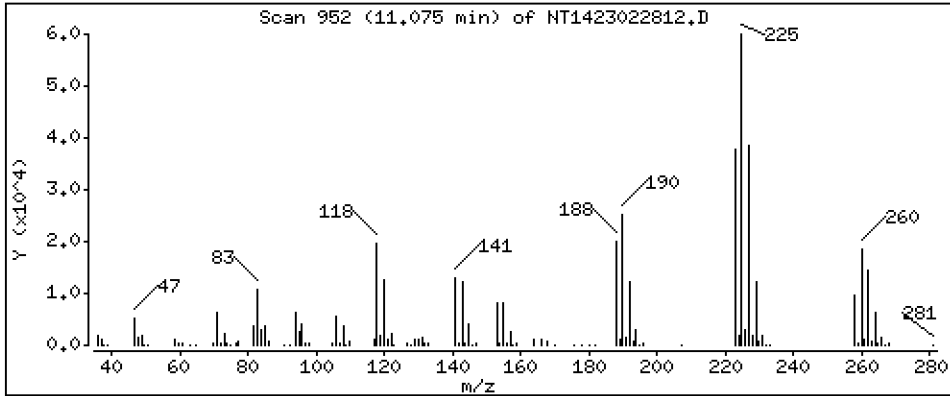
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,803 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

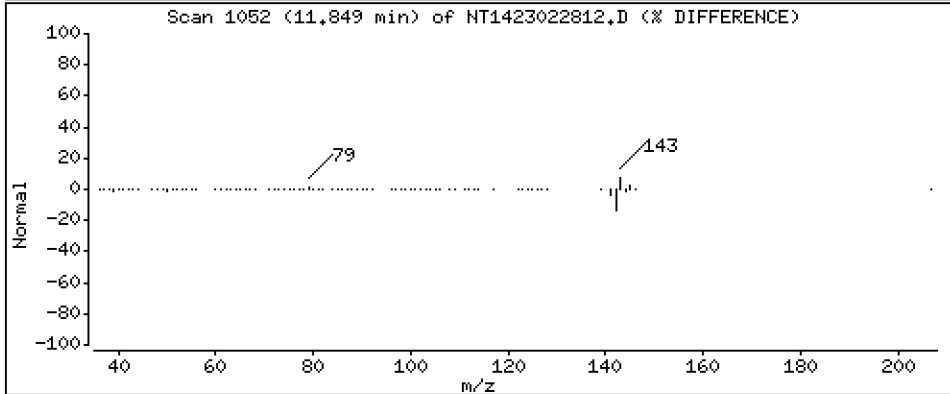
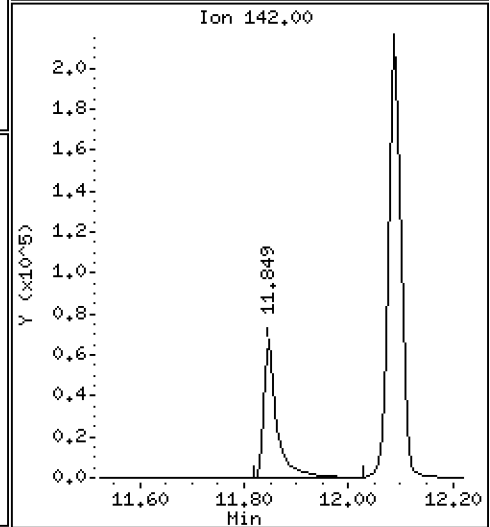
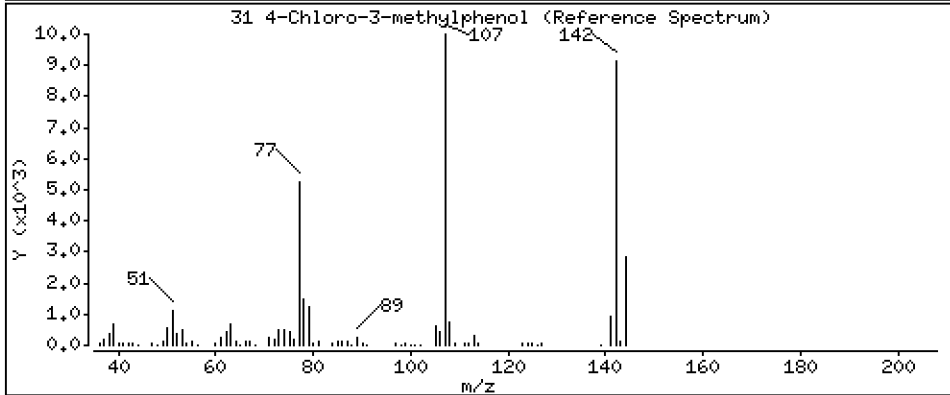
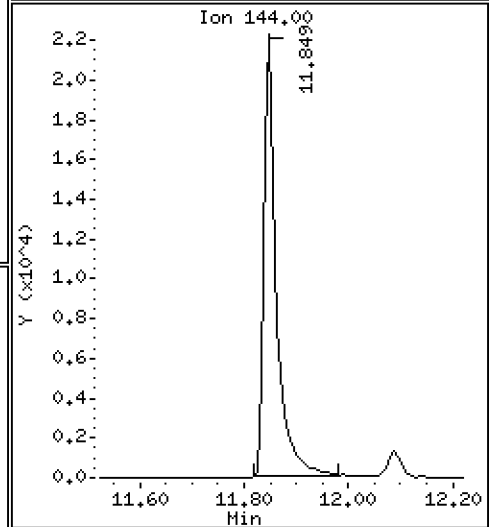
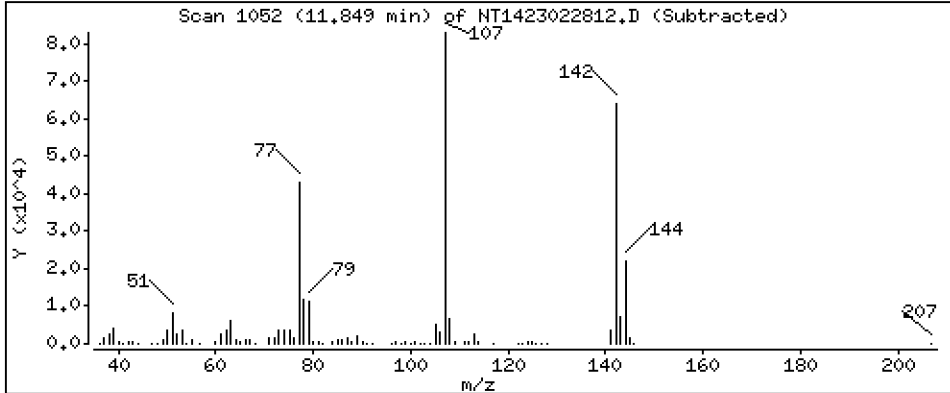
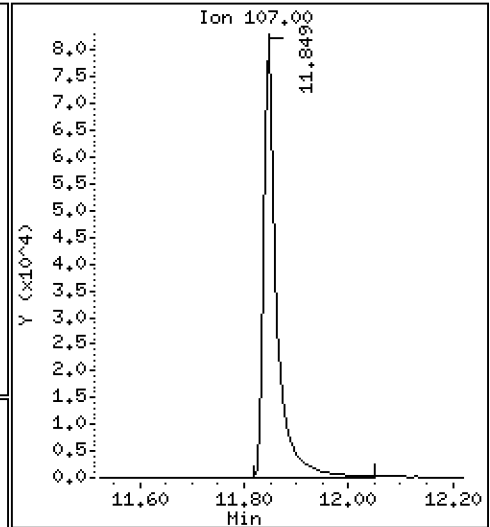
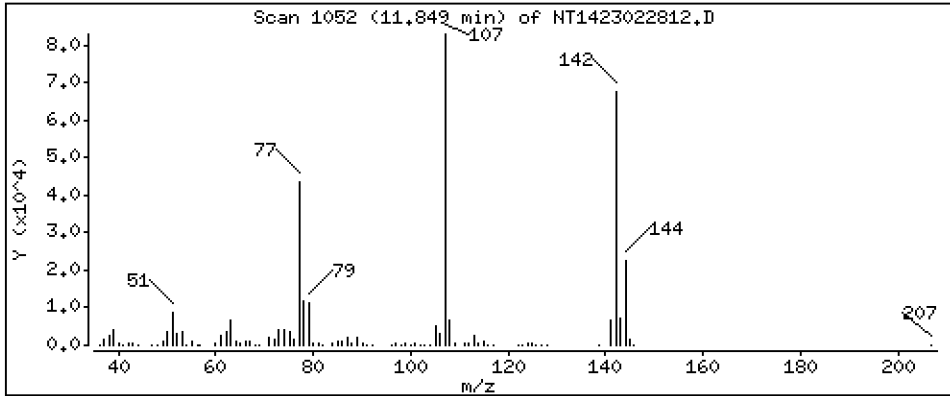
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 4.860 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

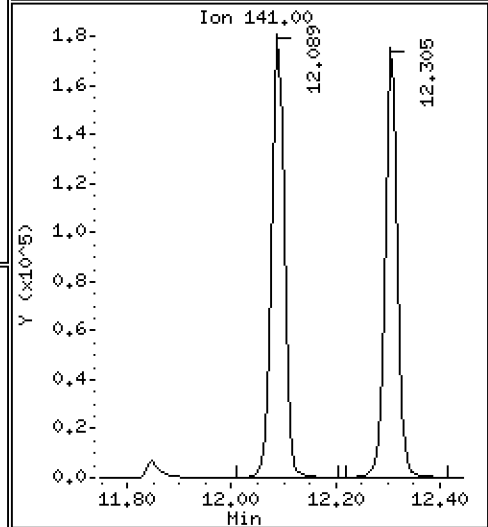
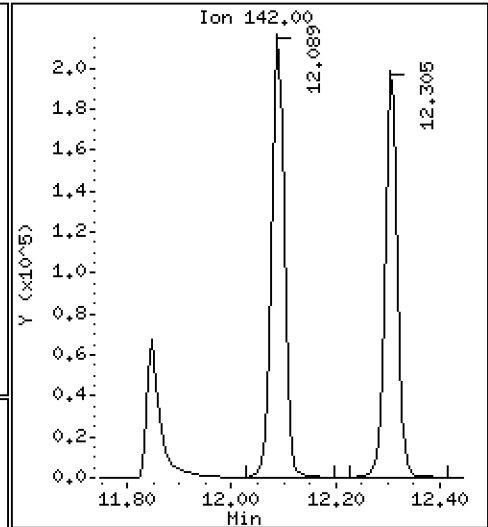
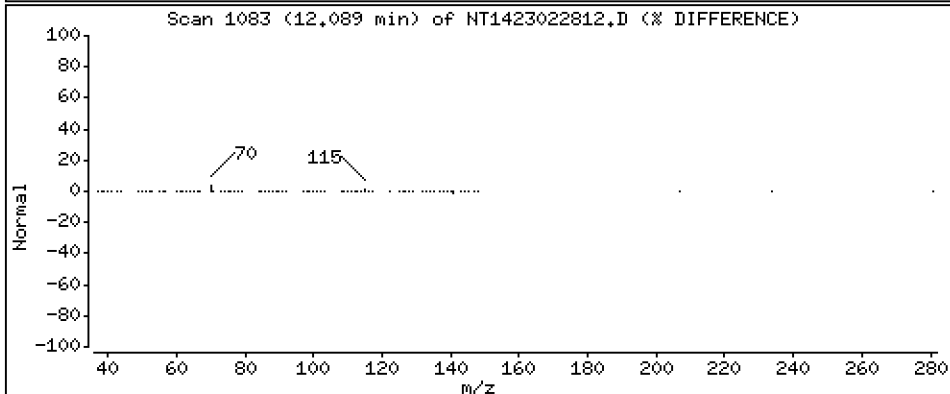
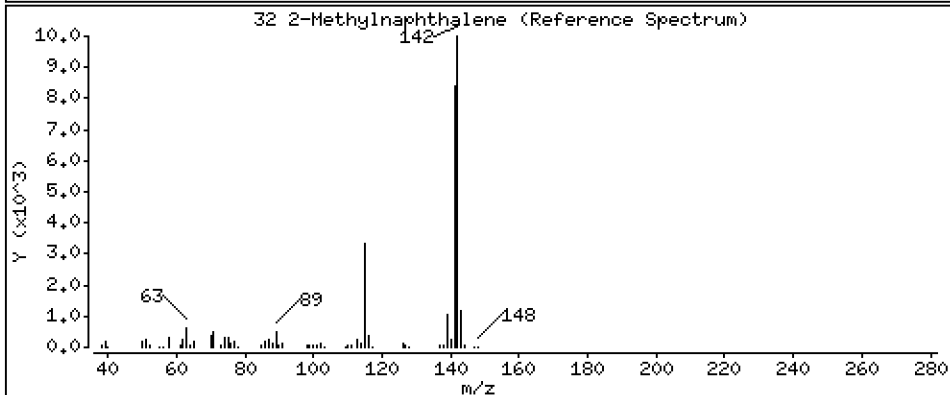
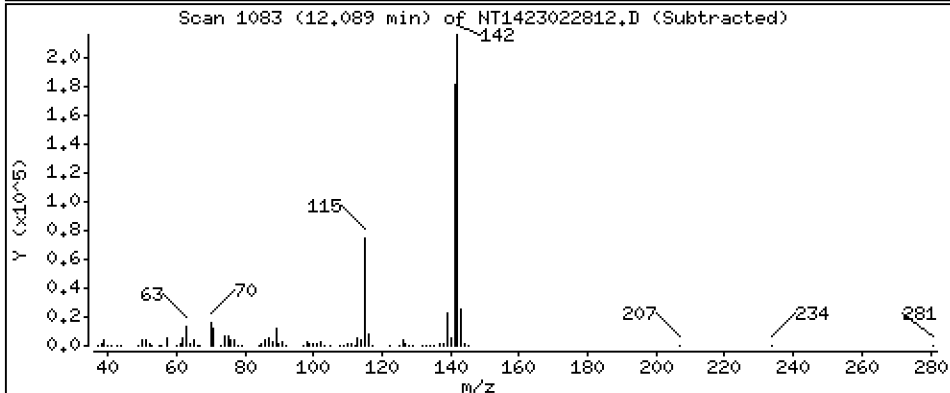
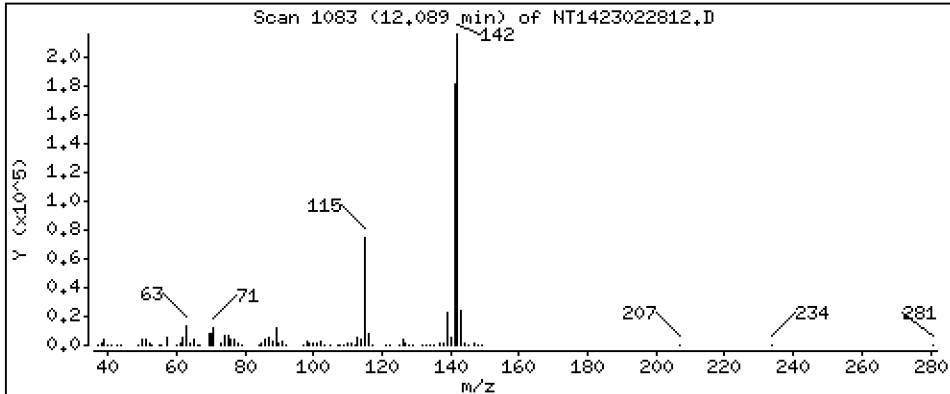
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,625 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

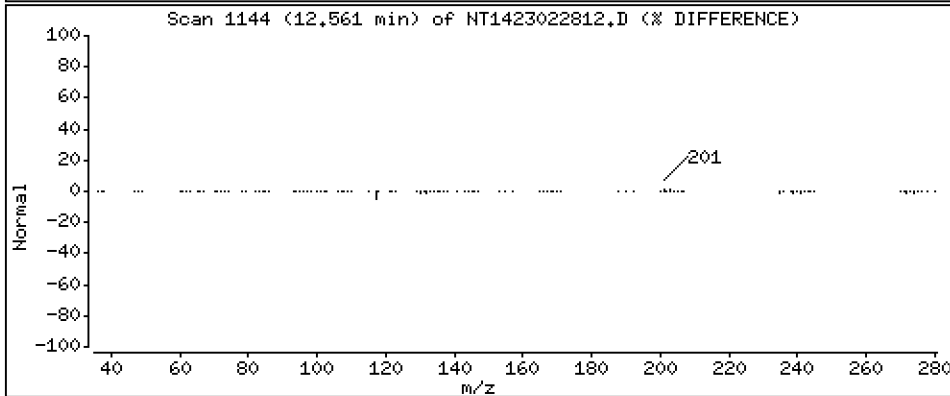
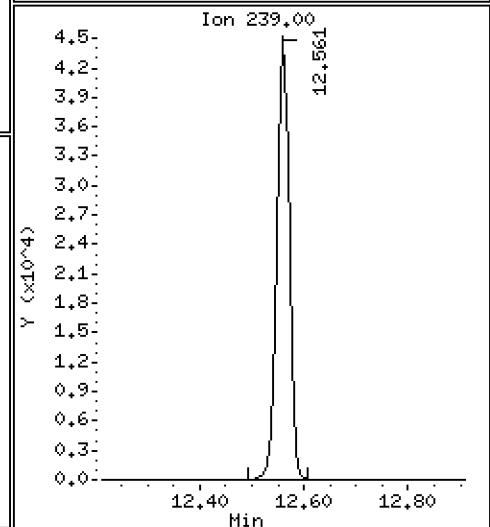
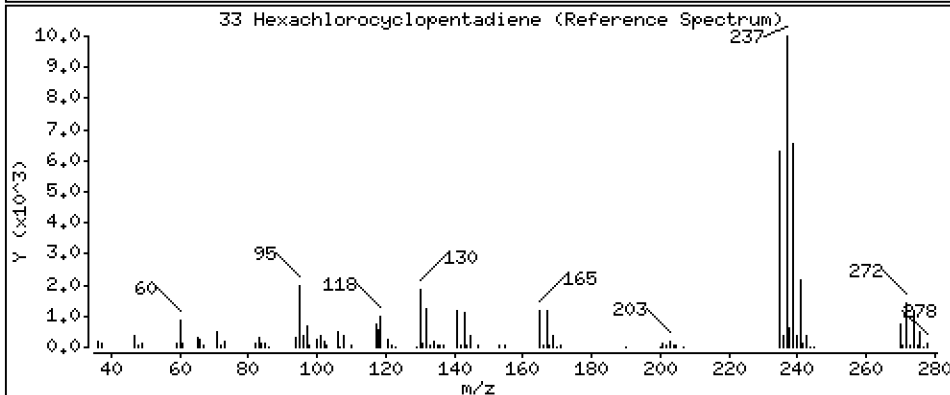
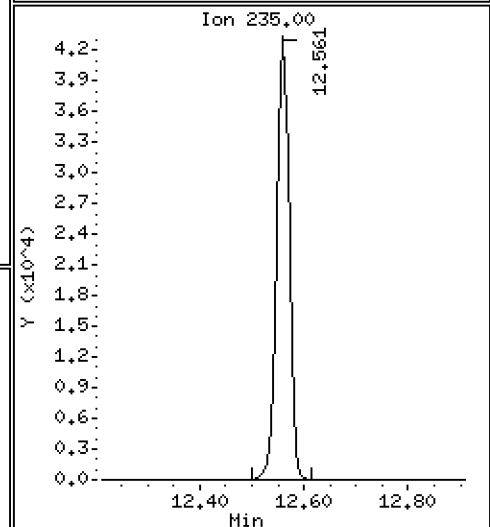
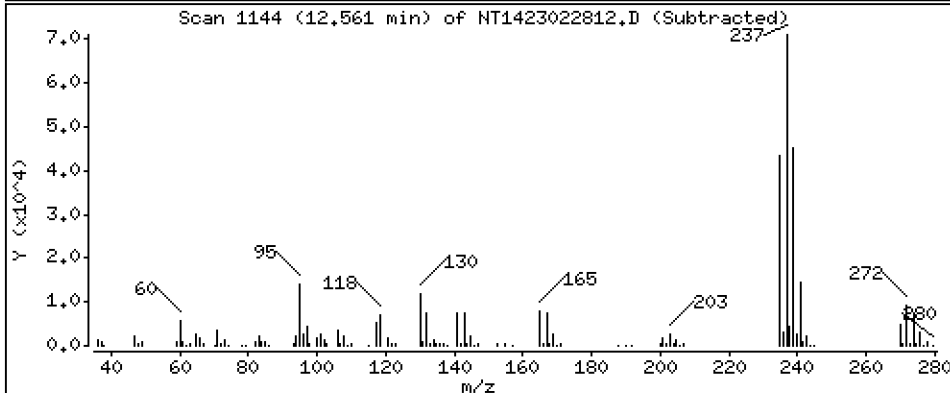
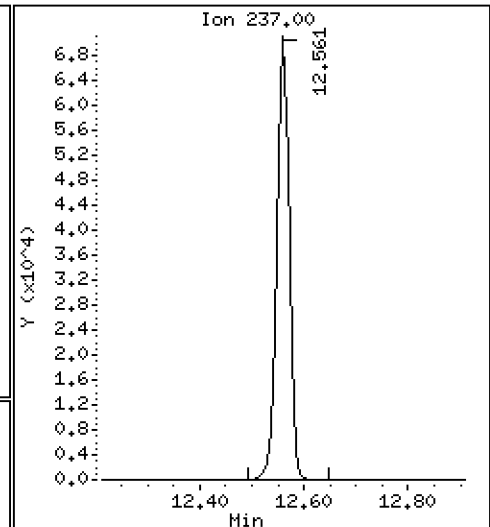
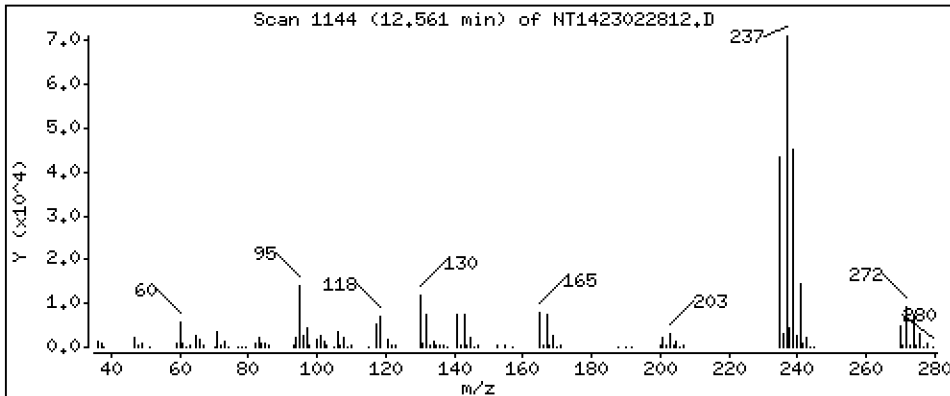
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 4,533 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

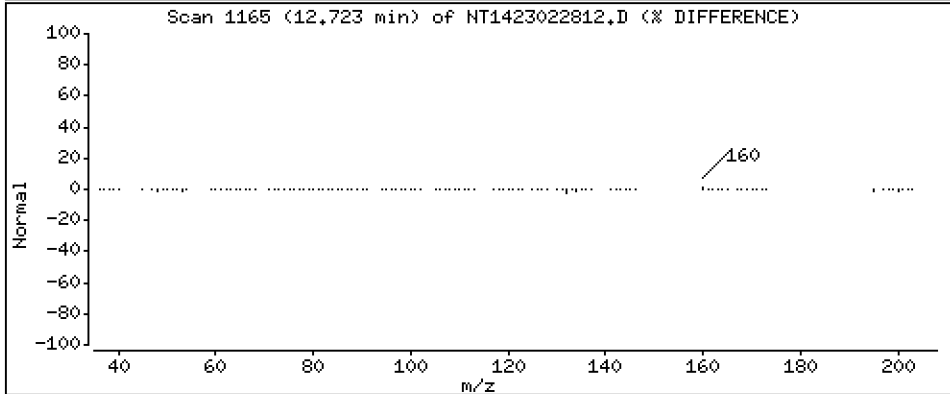
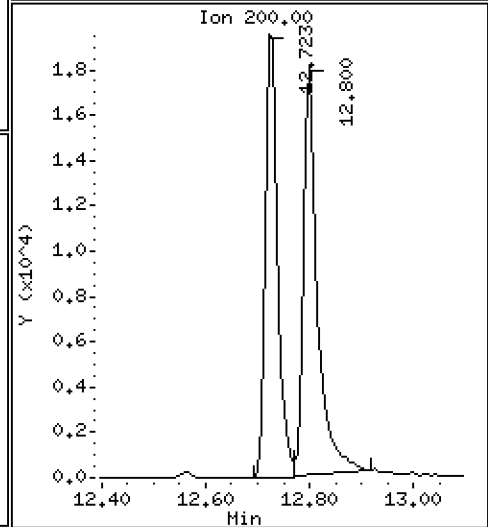
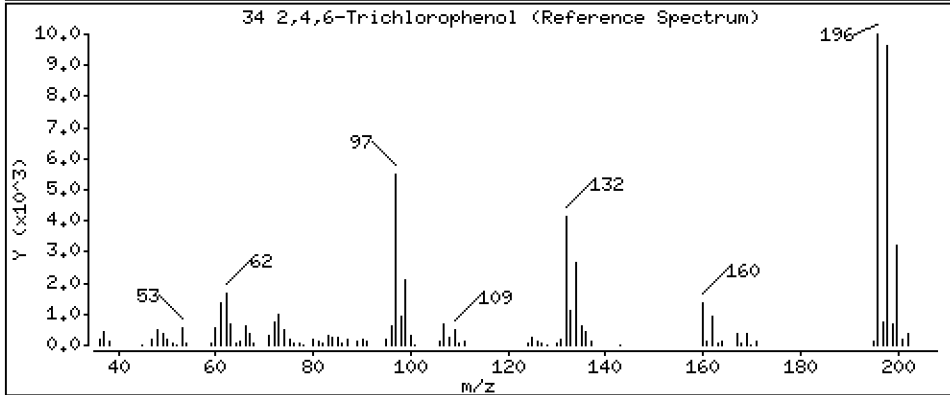
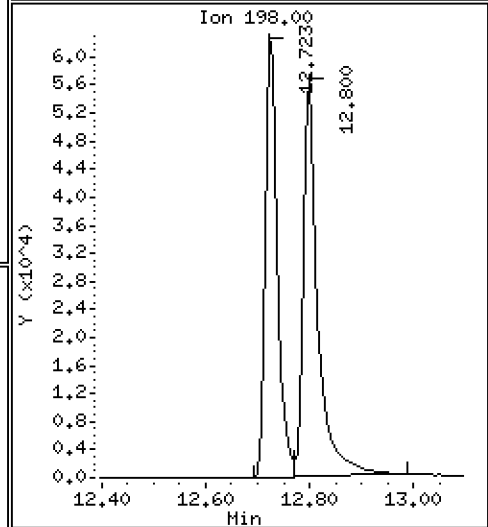
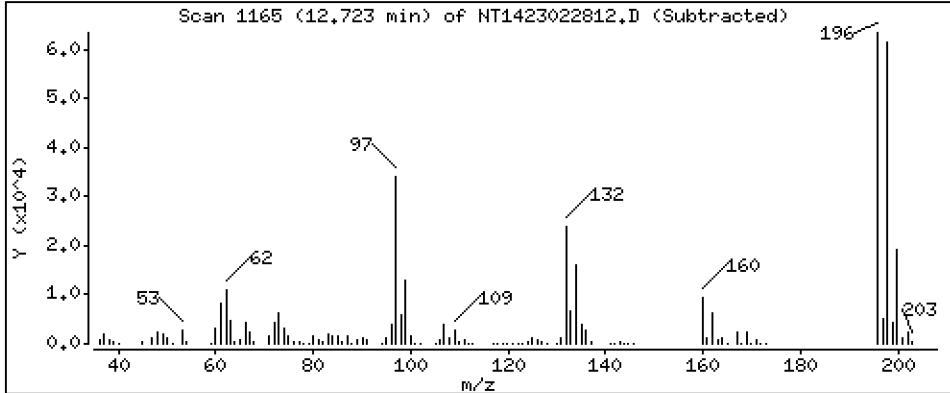
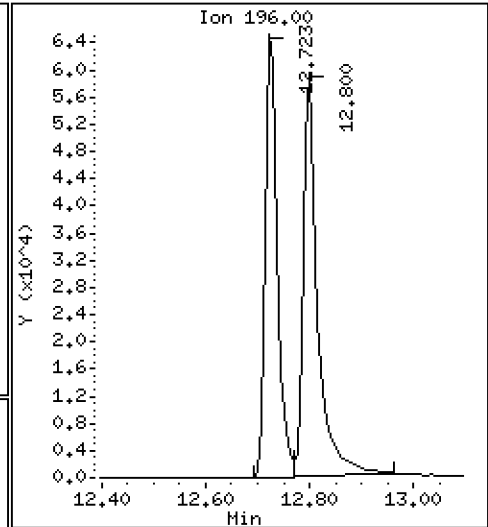
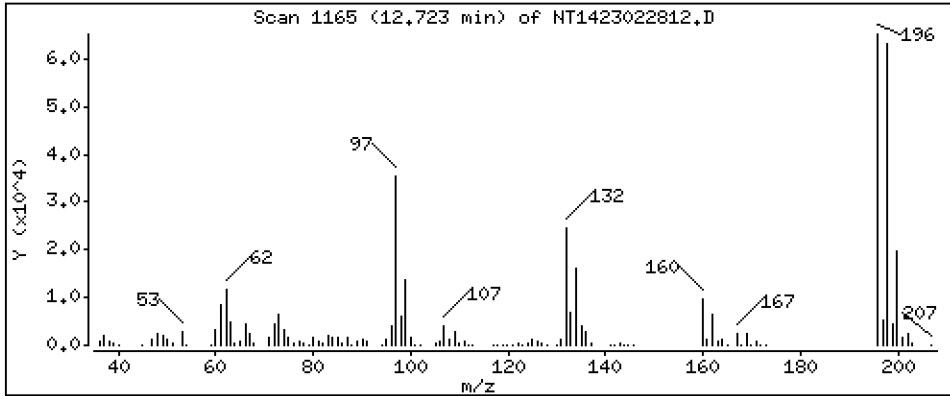
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 4,788 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

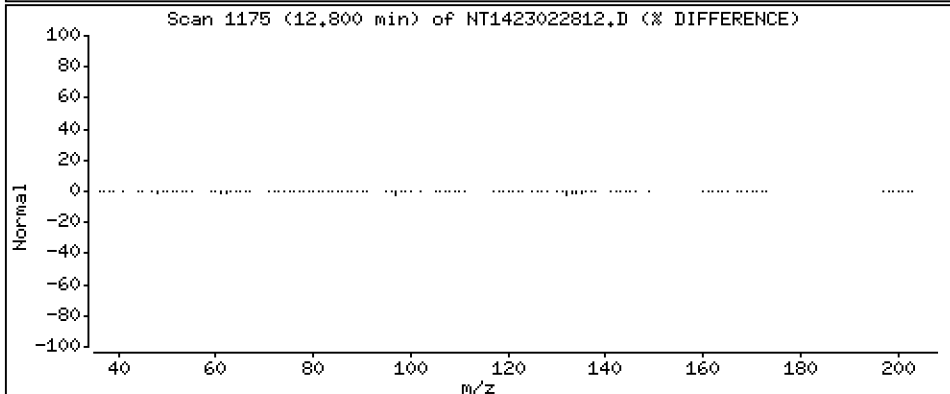
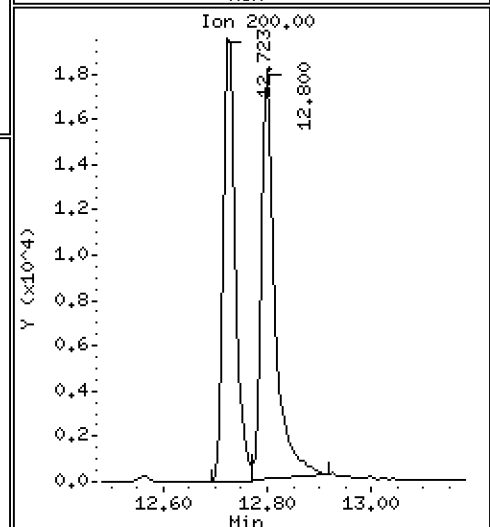
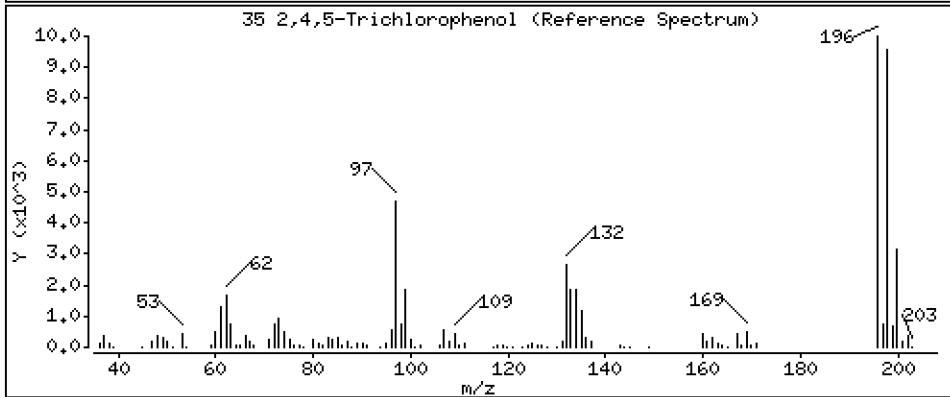
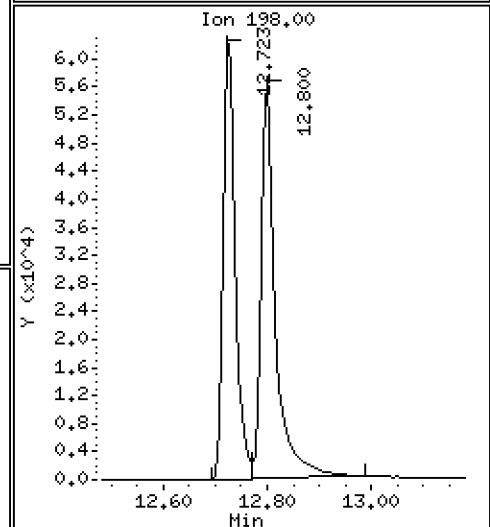
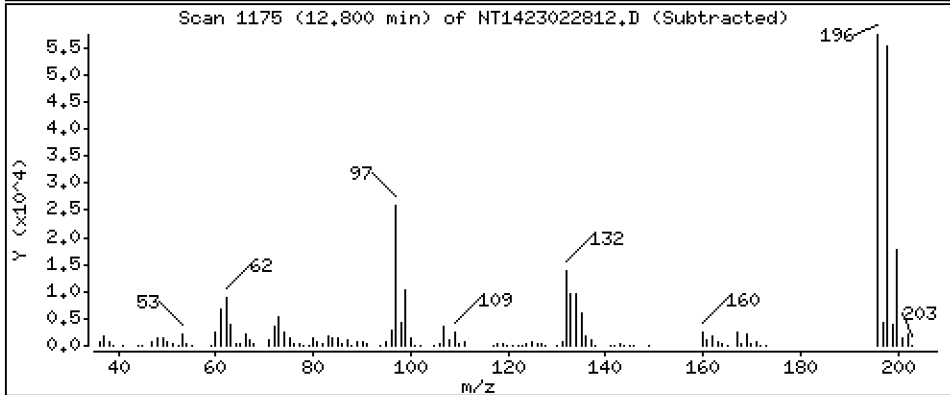
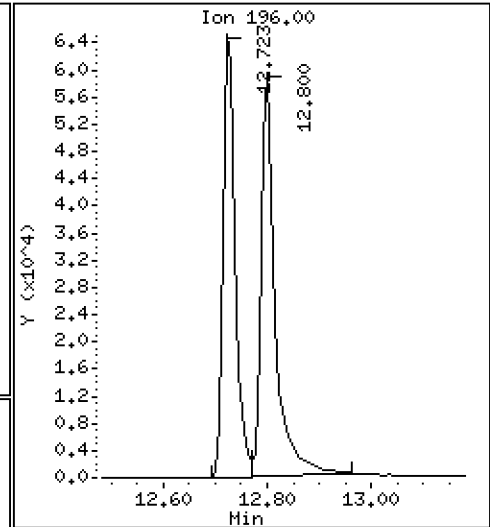
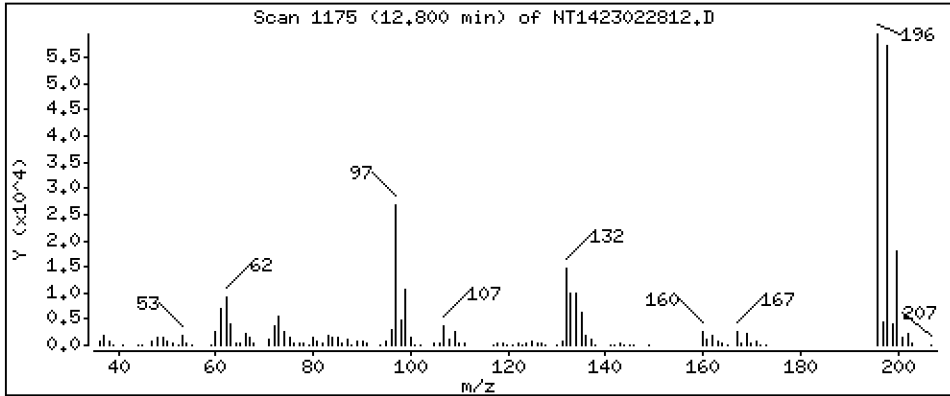
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 4,669 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

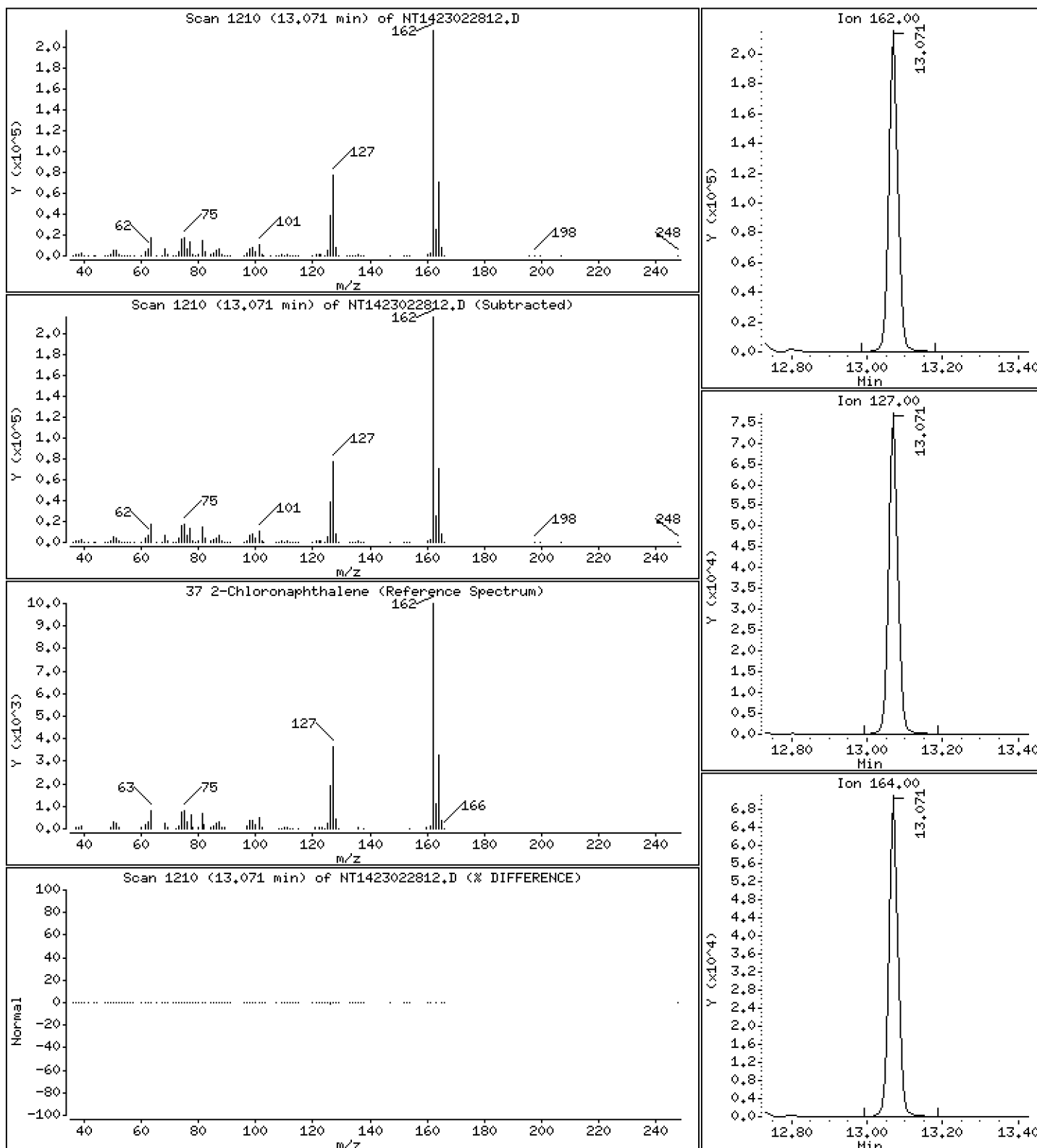
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,911 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

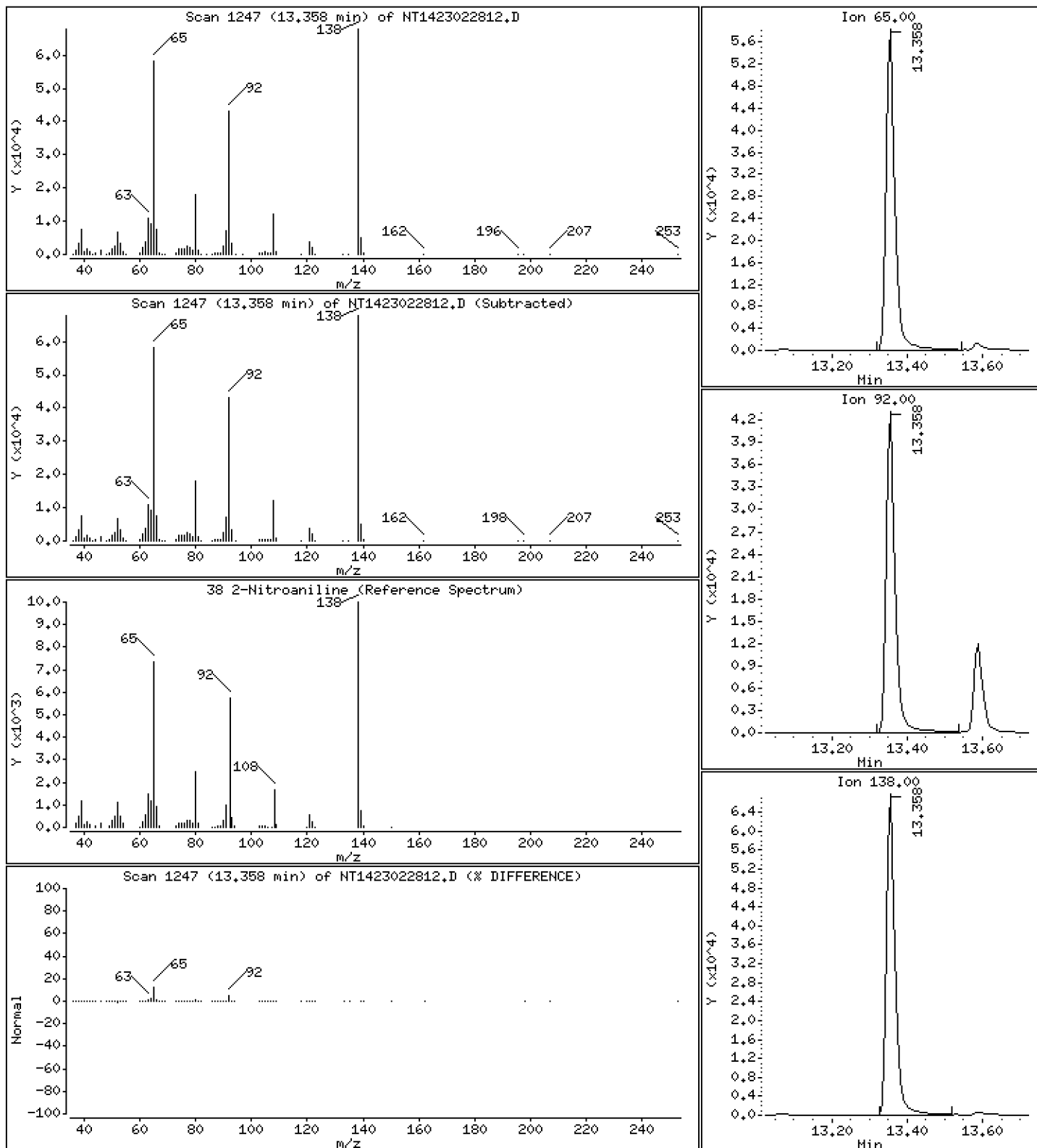
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 4,980 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

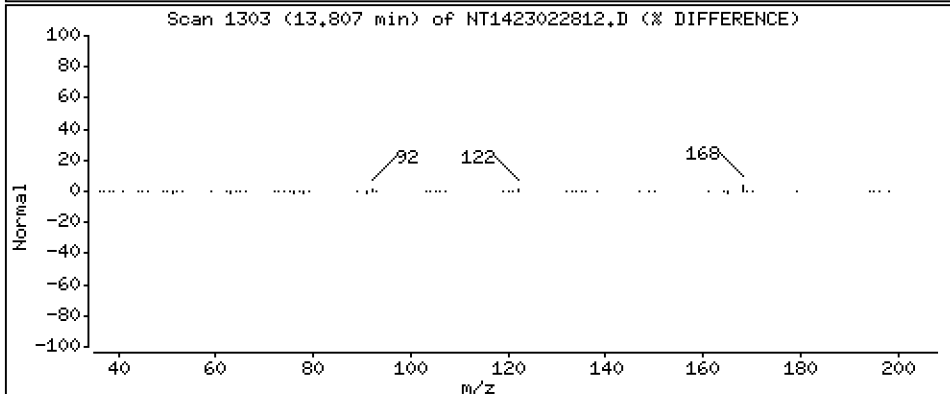
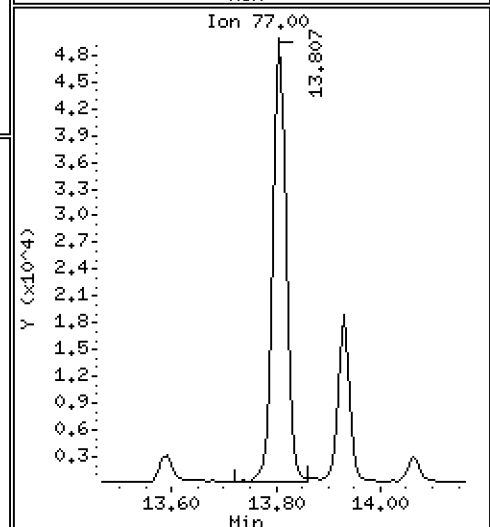
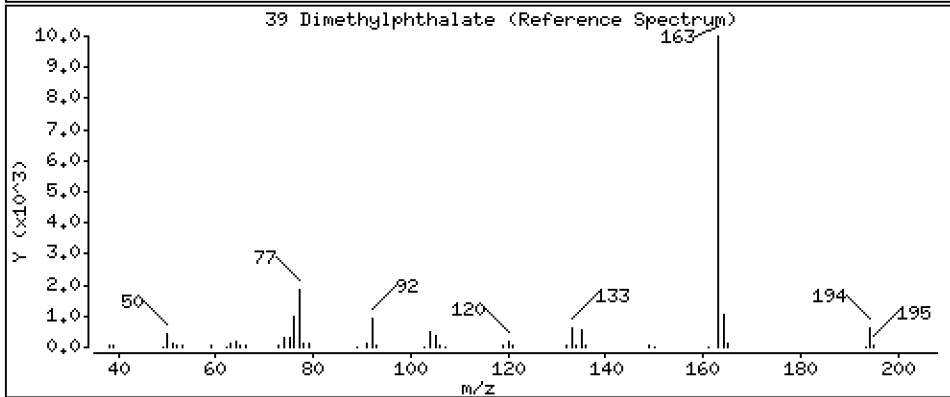
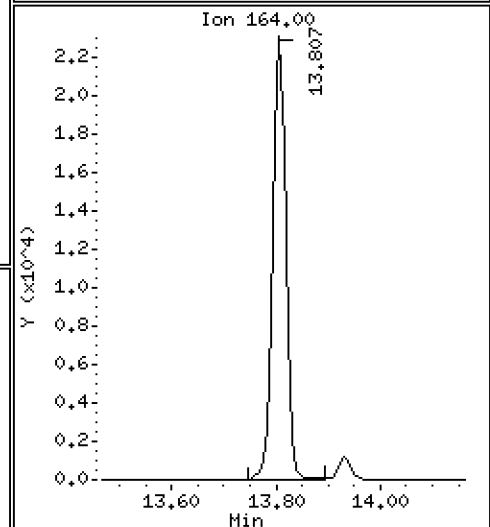
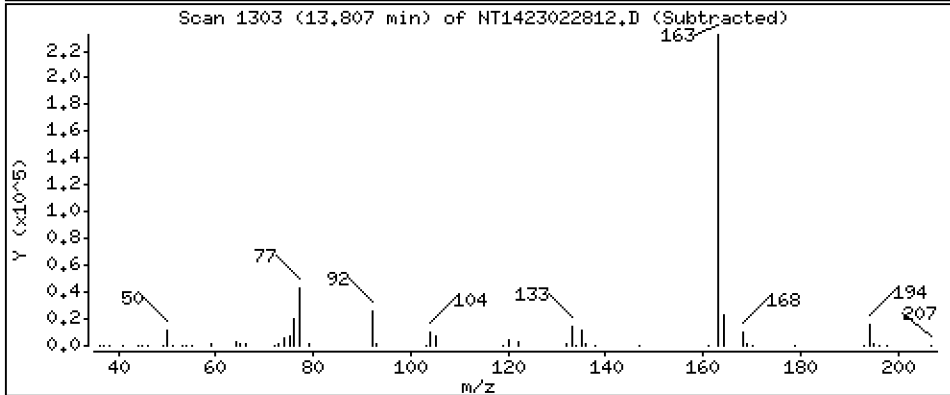
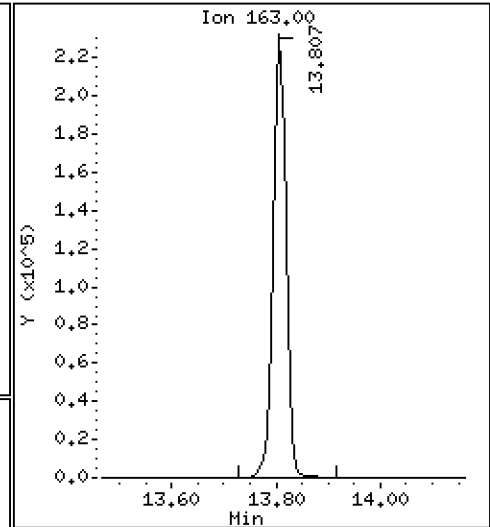
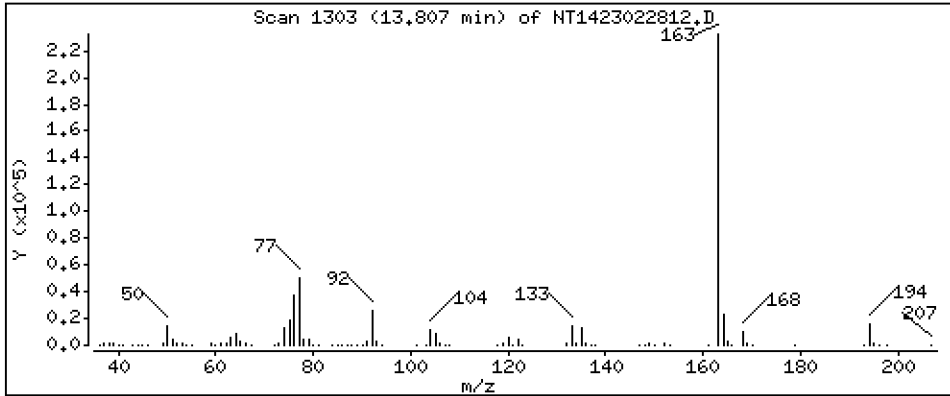
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,206 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

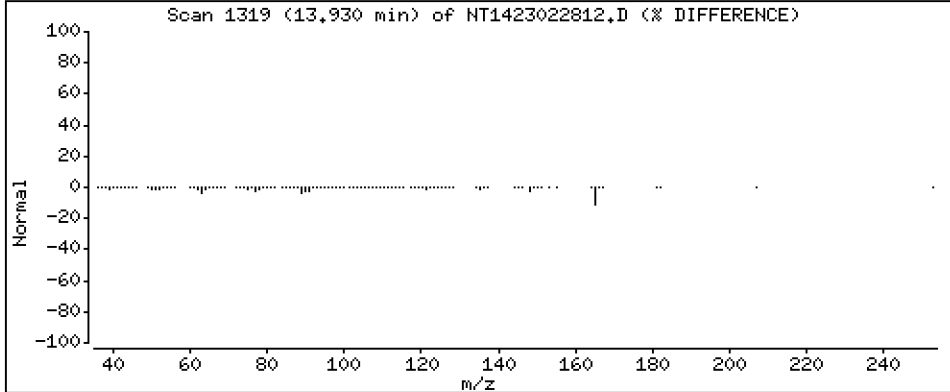
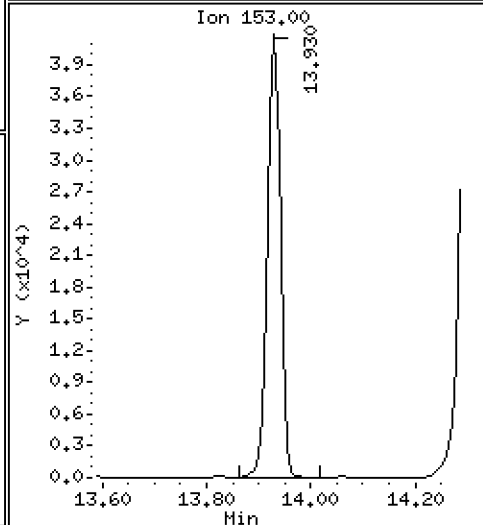
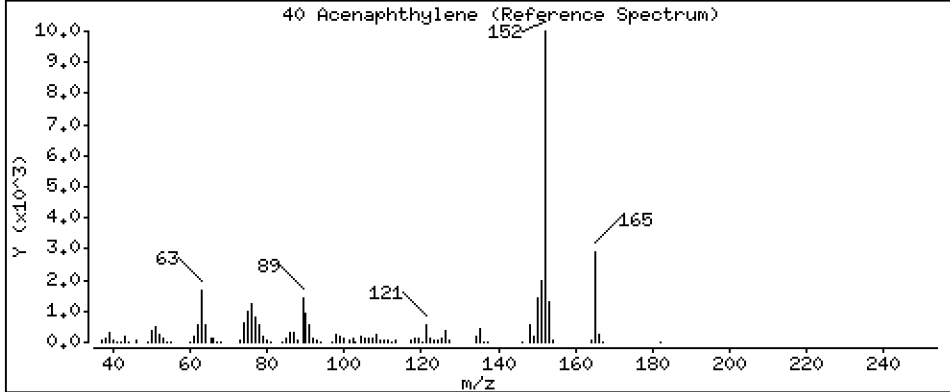
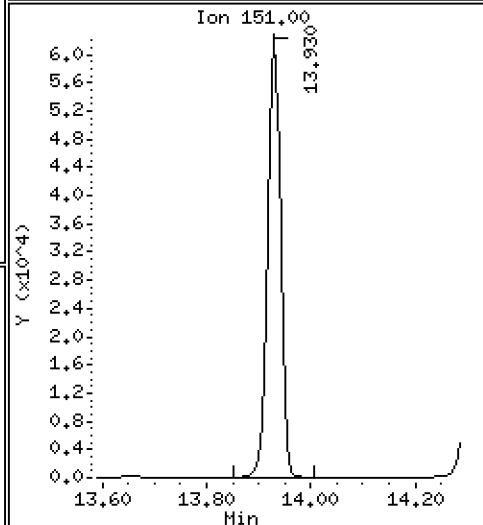
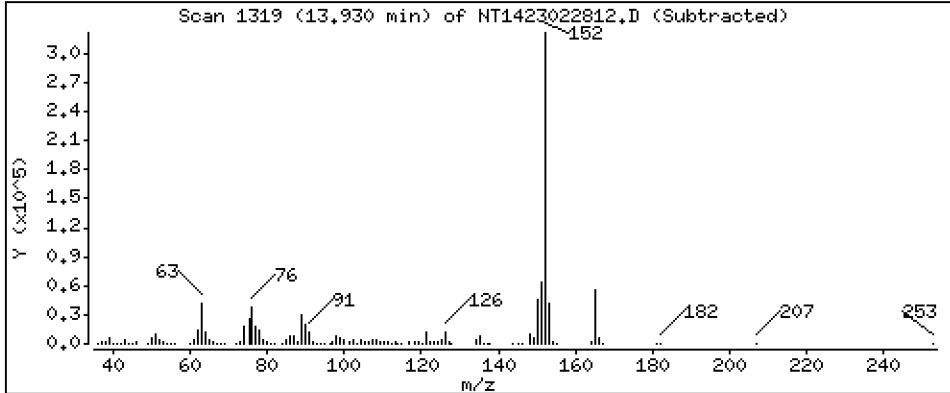
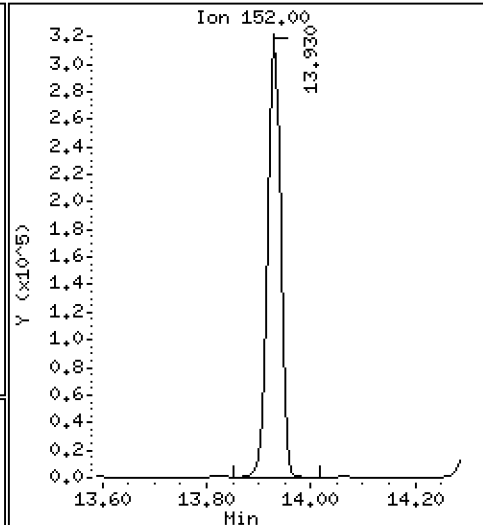
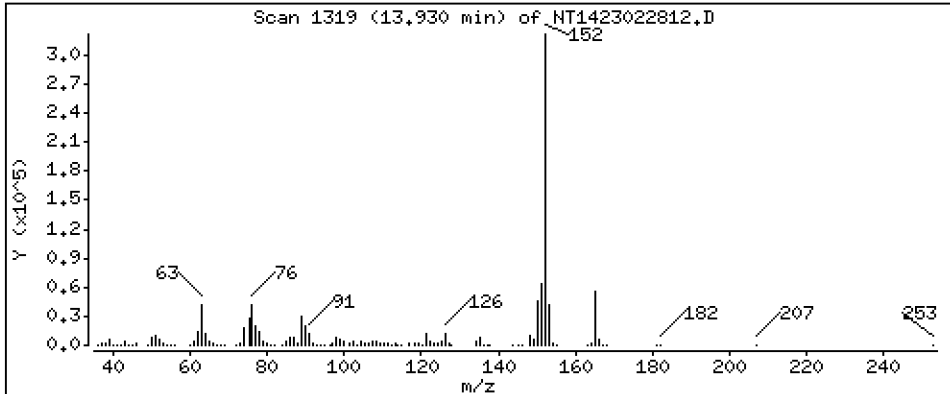
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,975 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

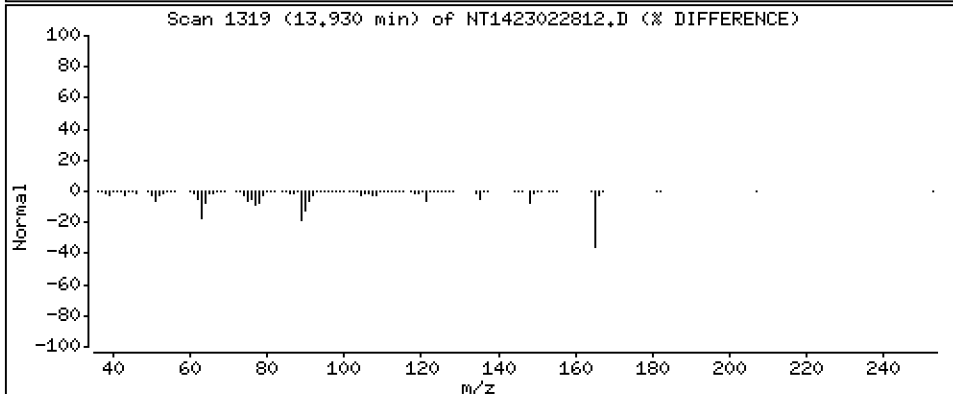
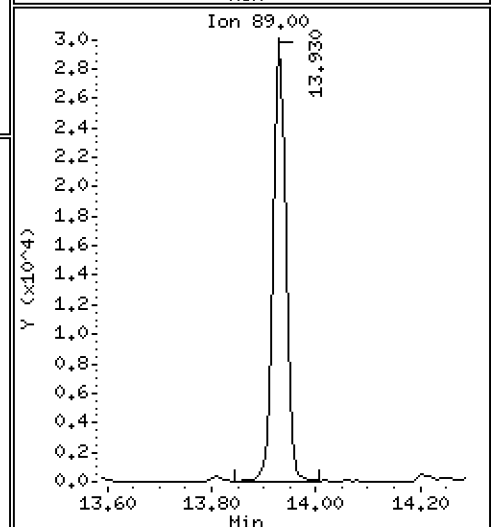
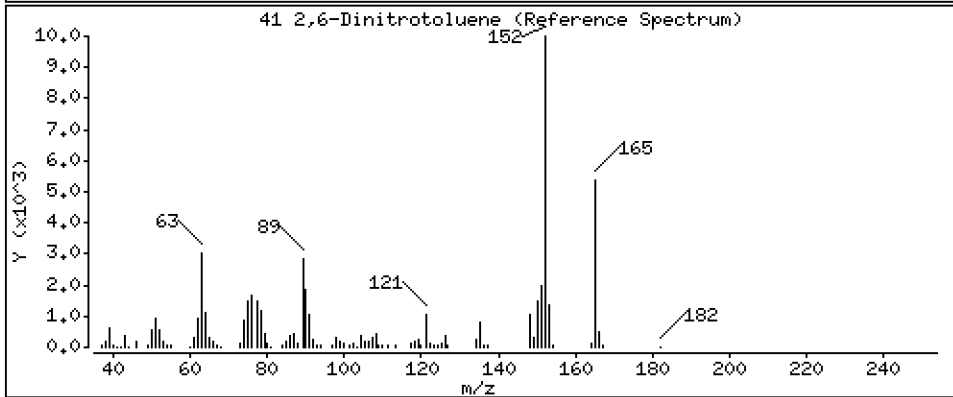
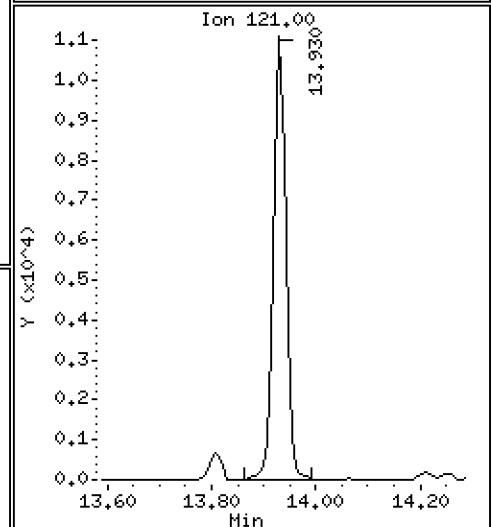
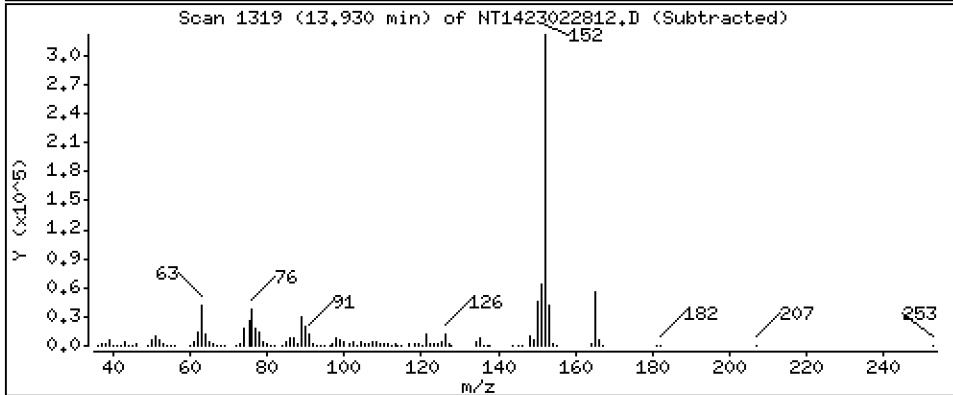
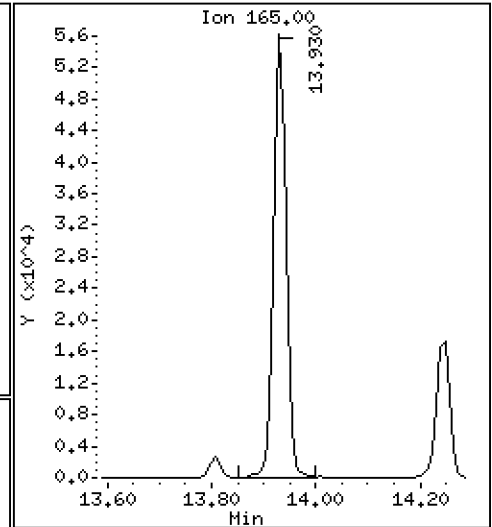
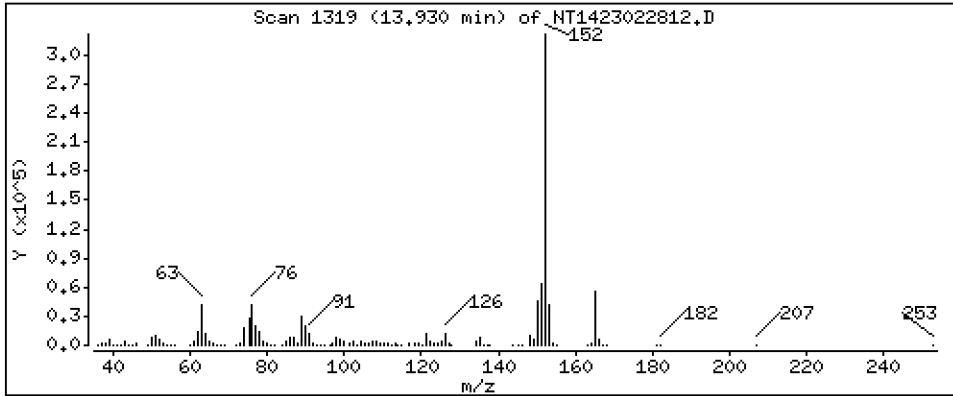
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 5,227 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

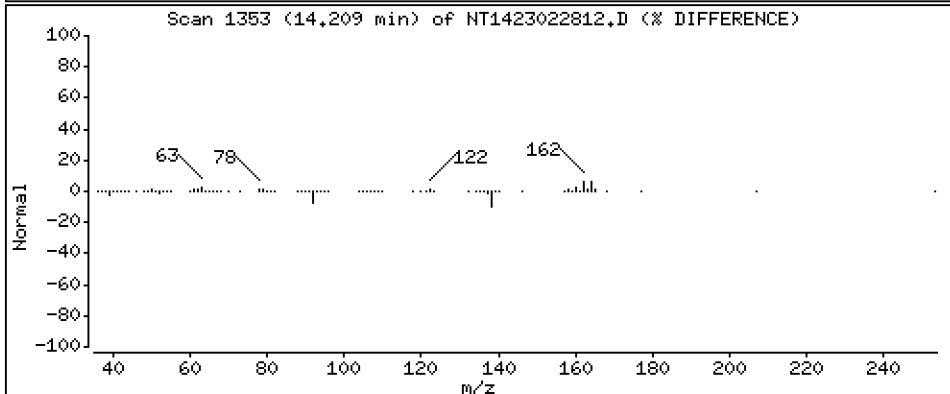
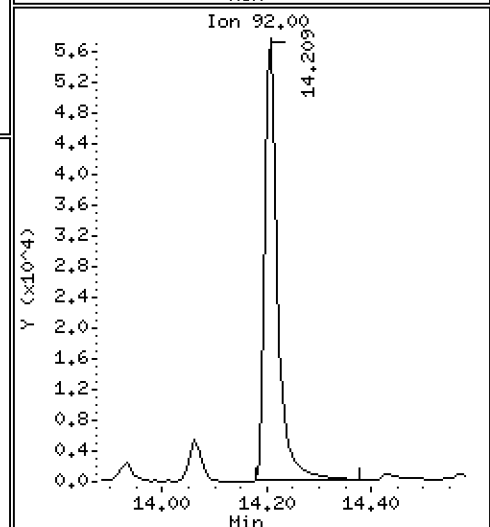
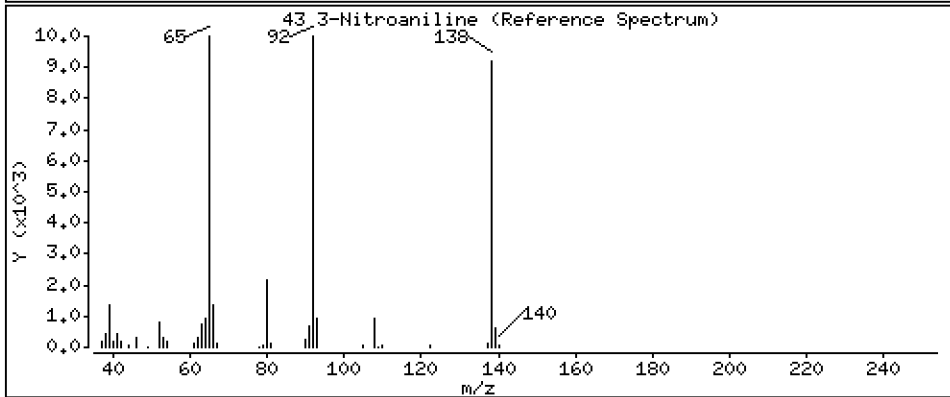
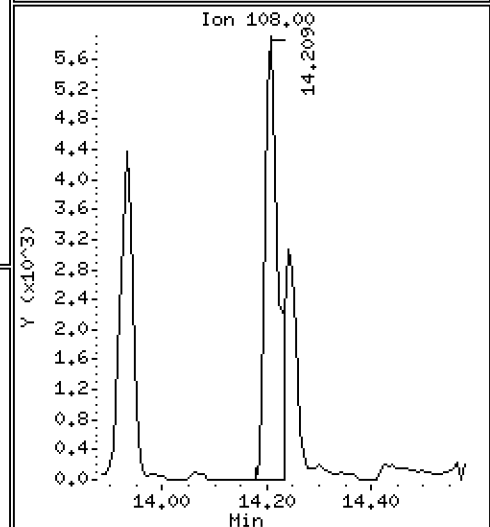
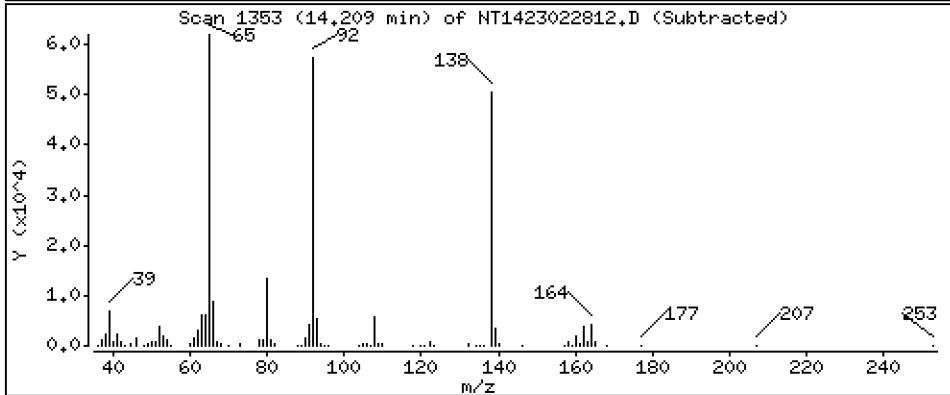
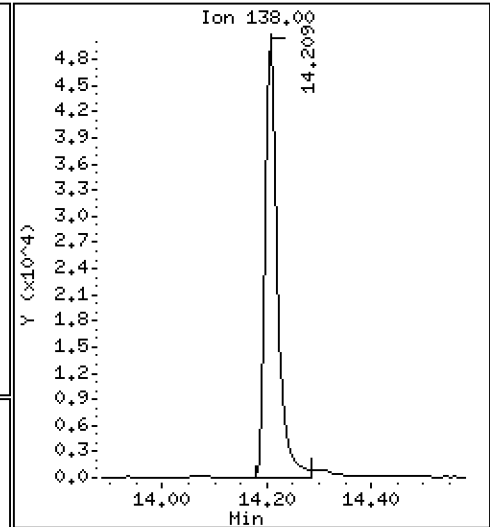
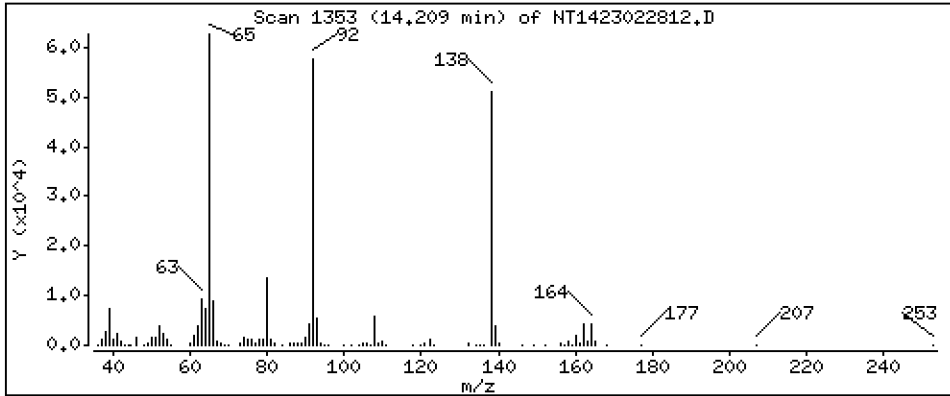
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 4,869 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

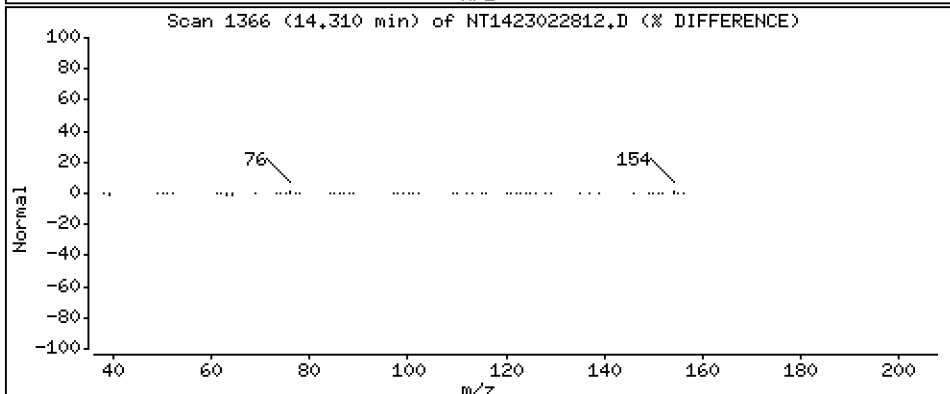
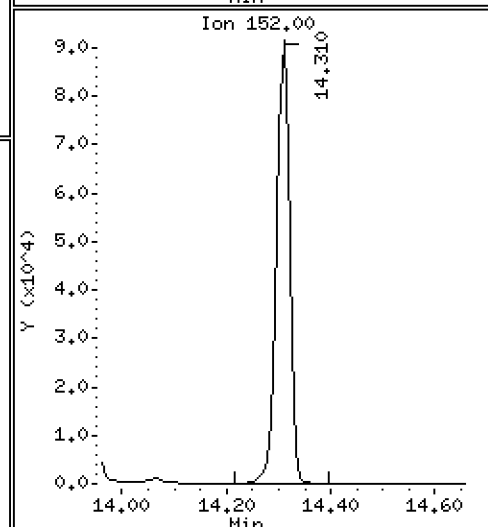
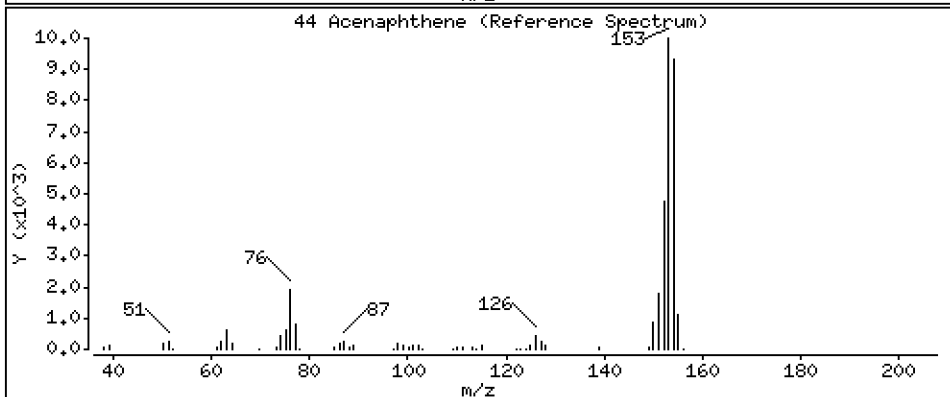
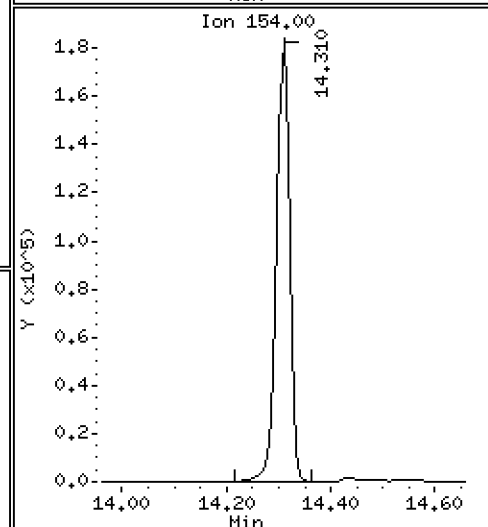
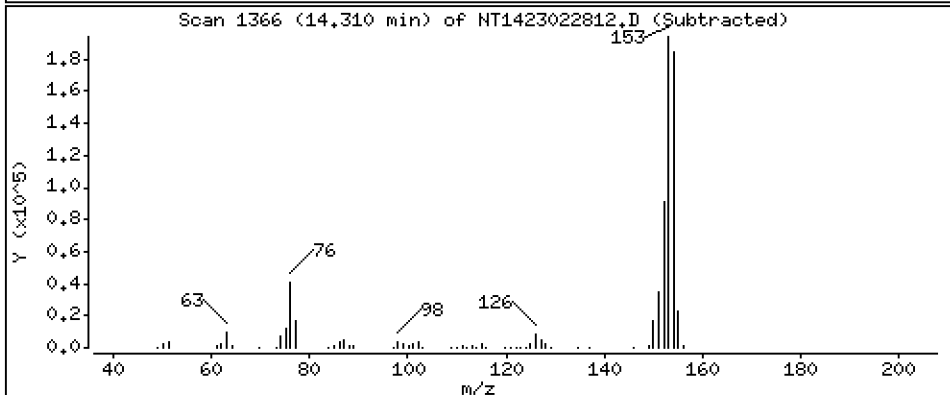
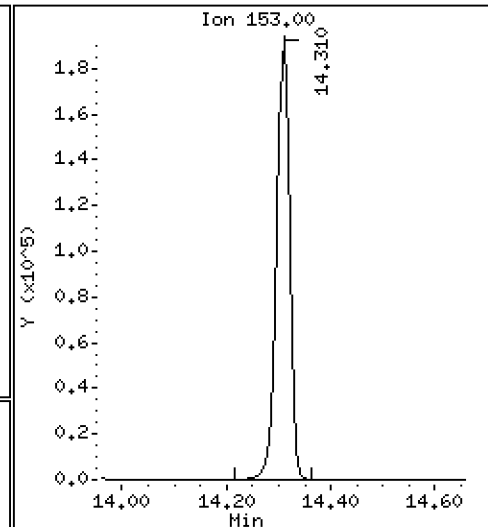
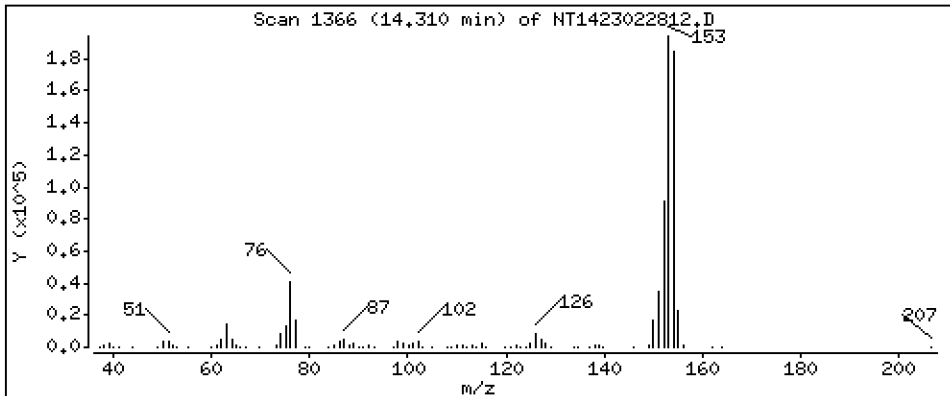
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,767 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

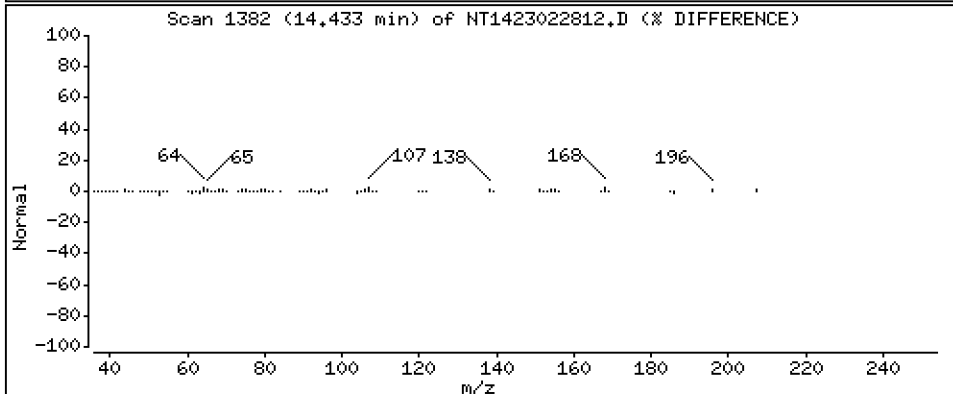
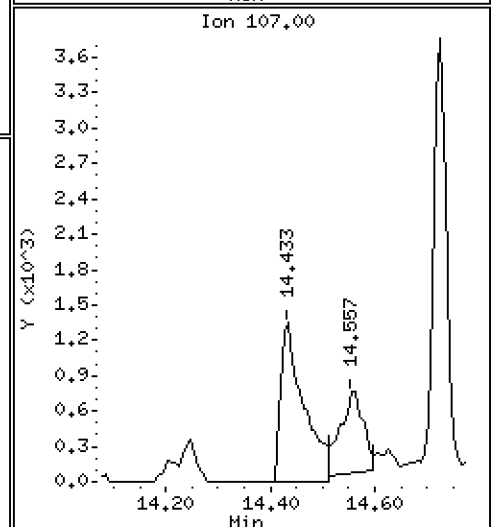
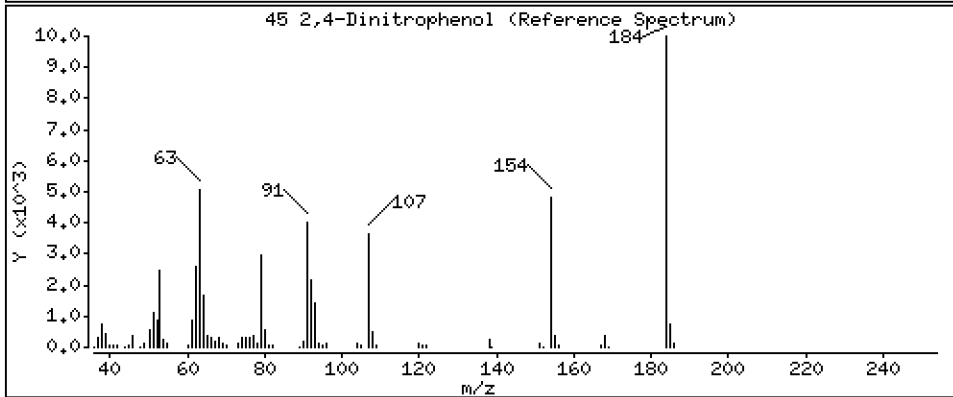
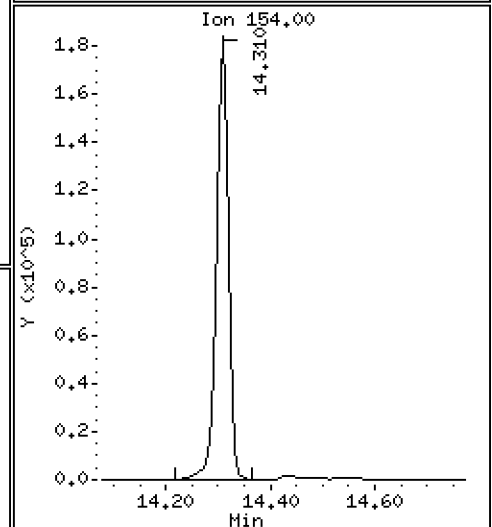
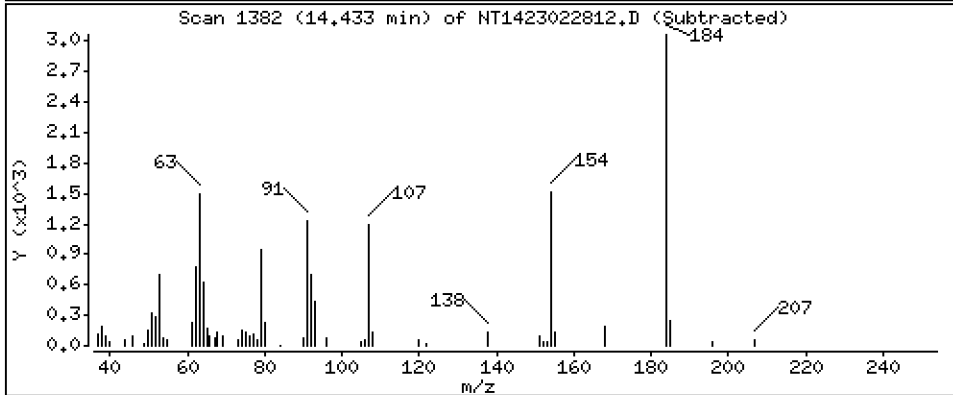
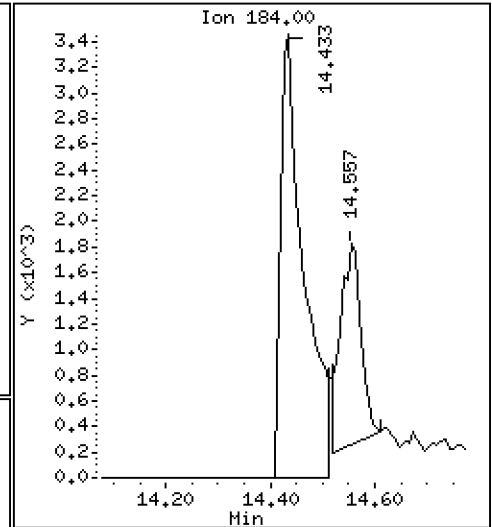
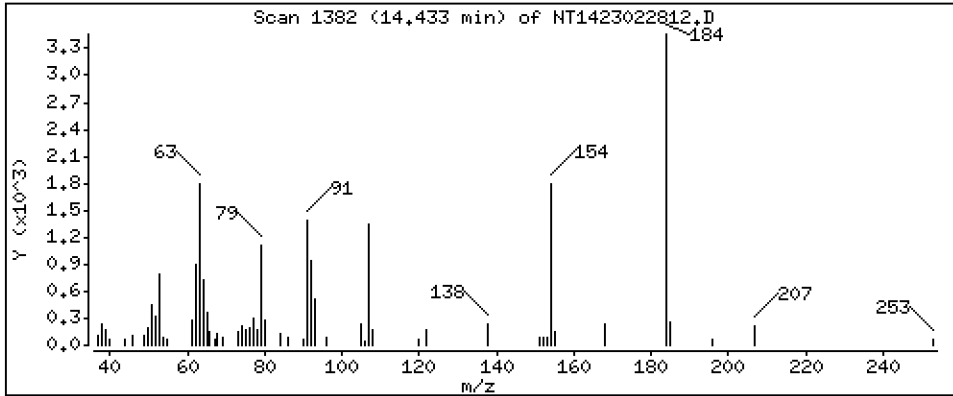
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

45 2,4-Dinitrophenol

Concentration: 0.9807 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

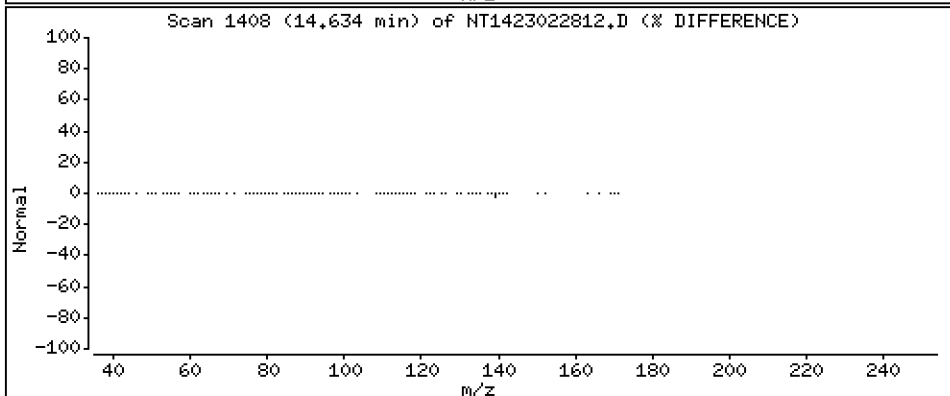
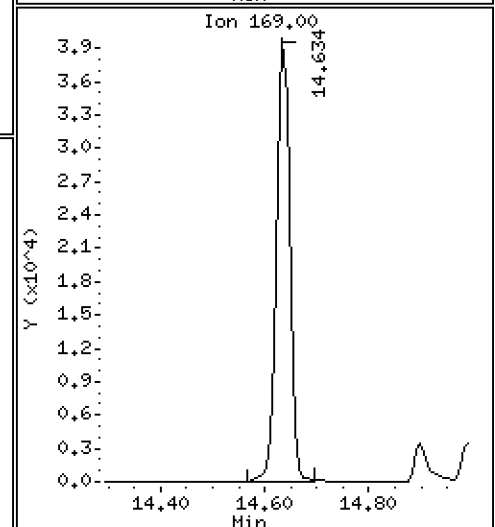
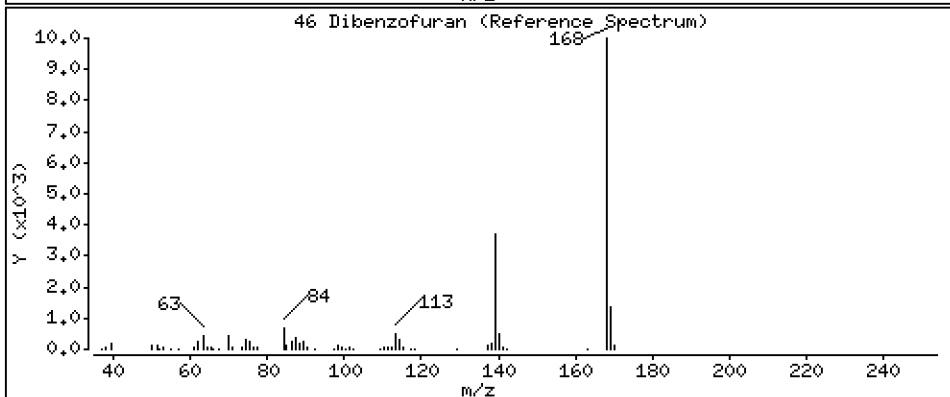
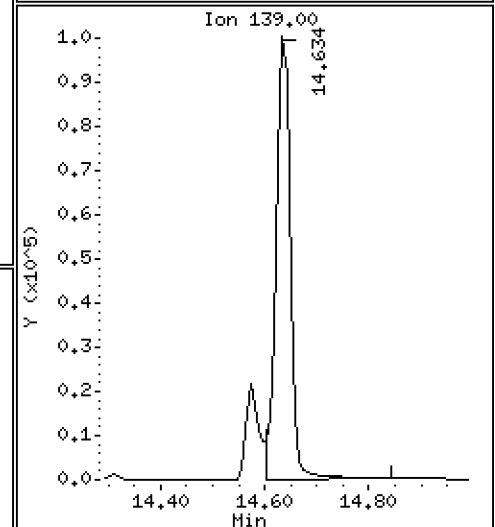
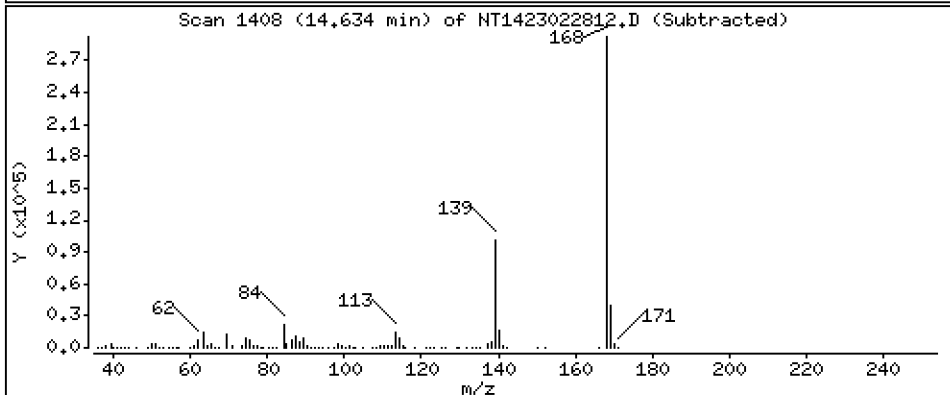
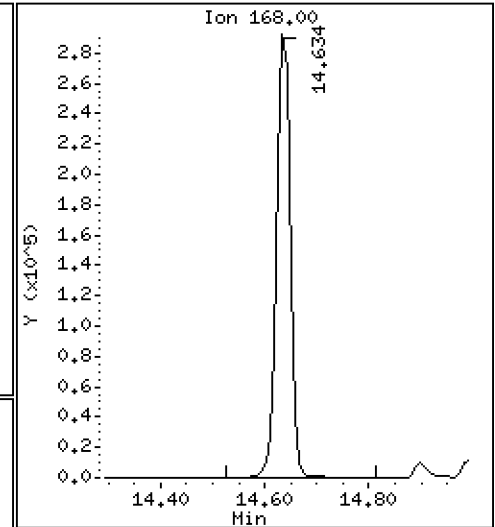
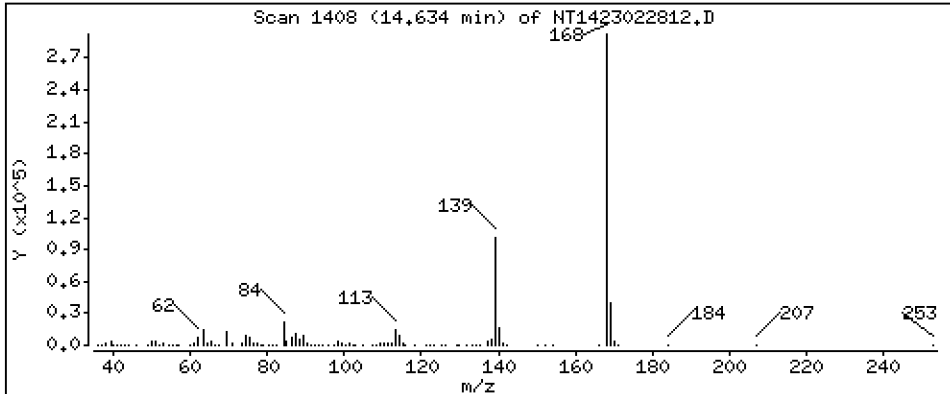
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,718 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

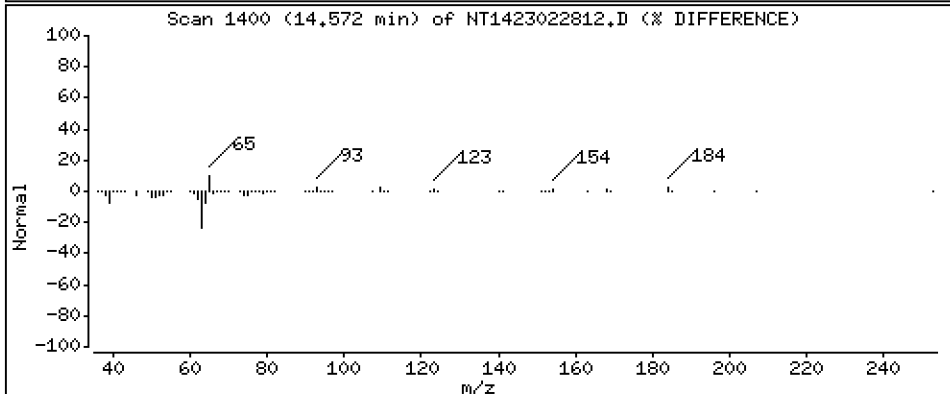
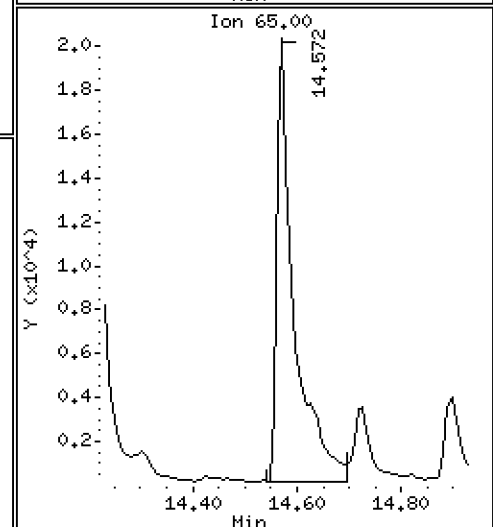
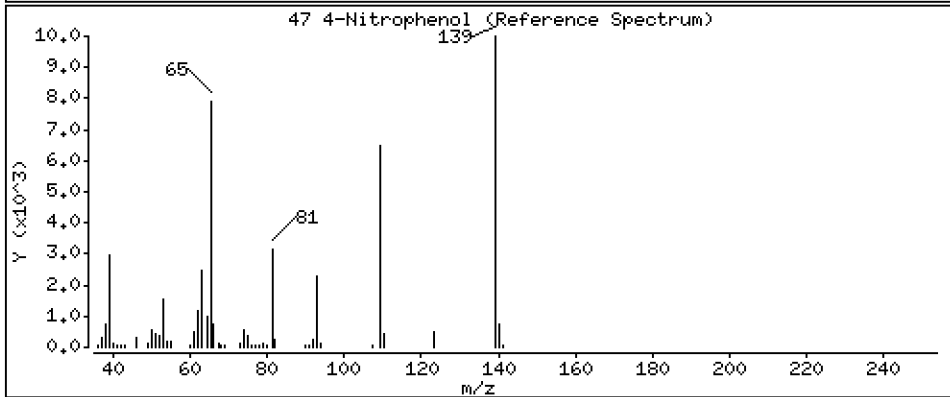
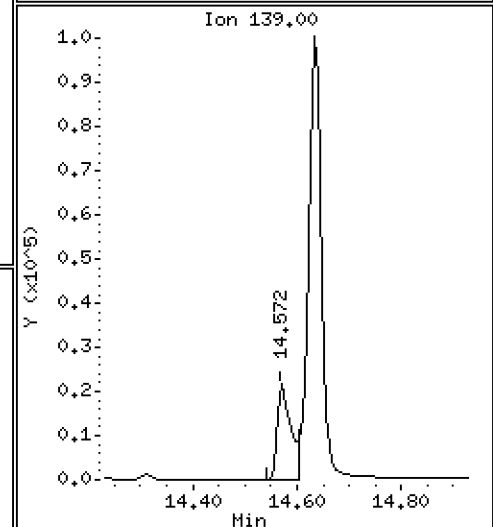
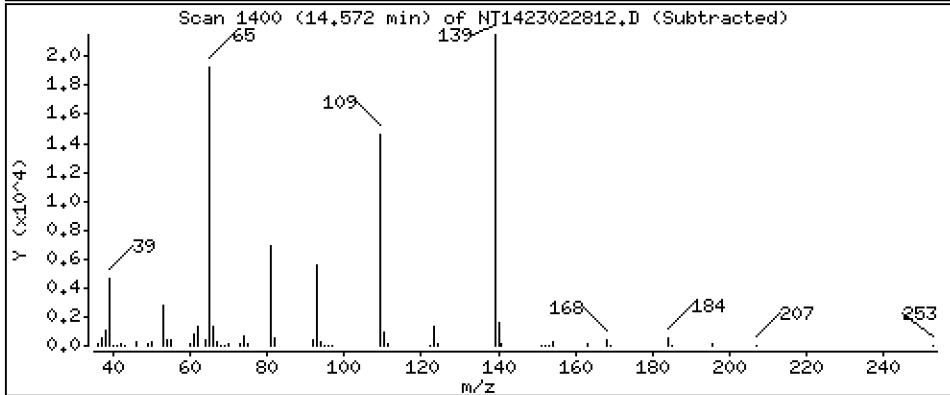
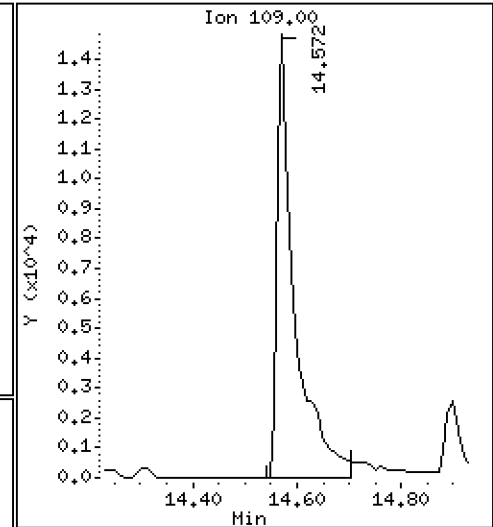
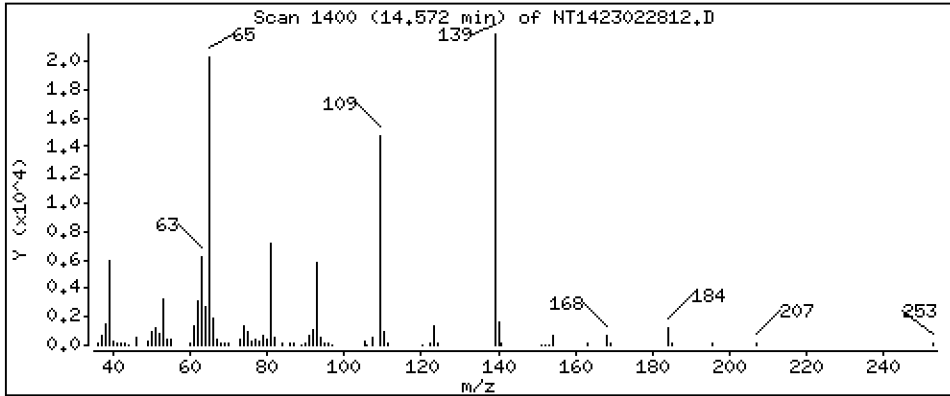
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 3,934 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

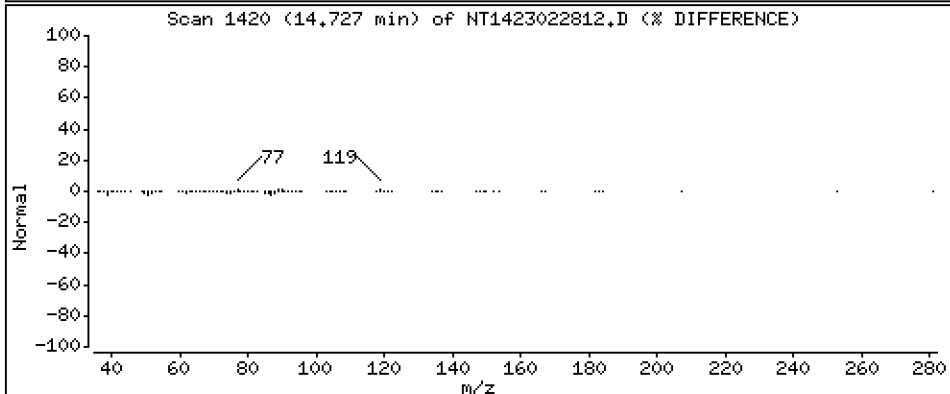
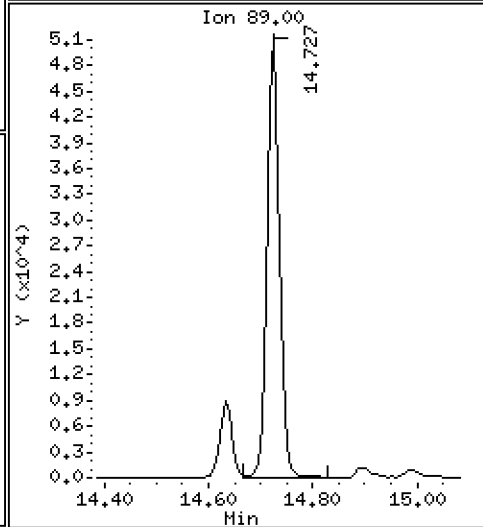
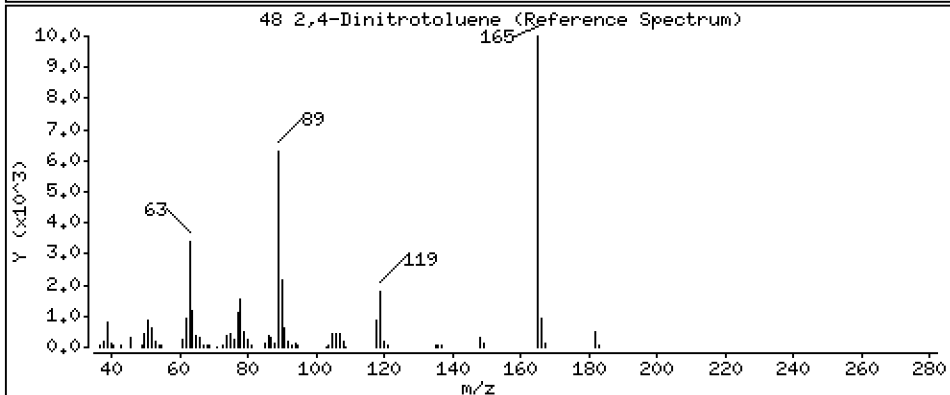
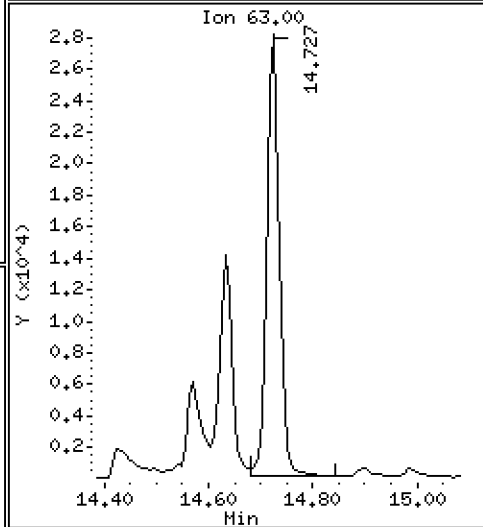
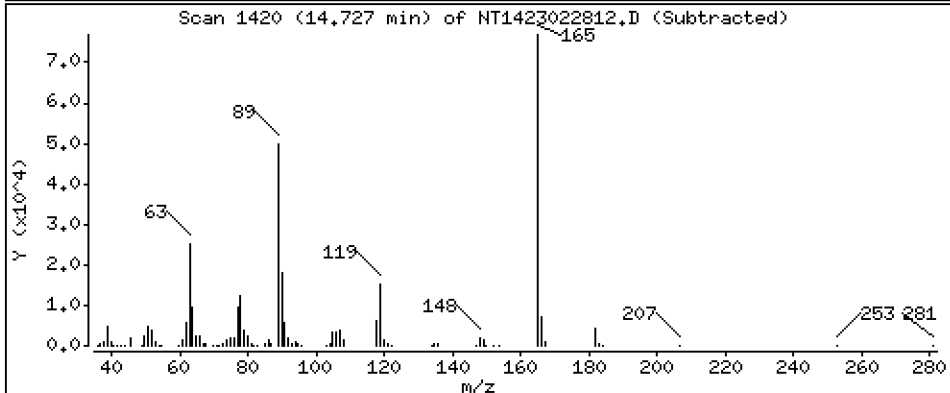
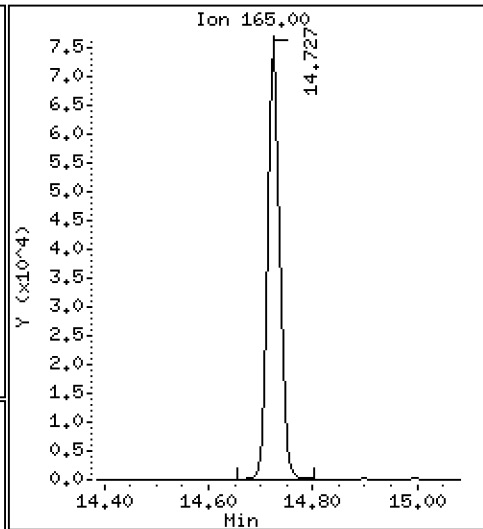
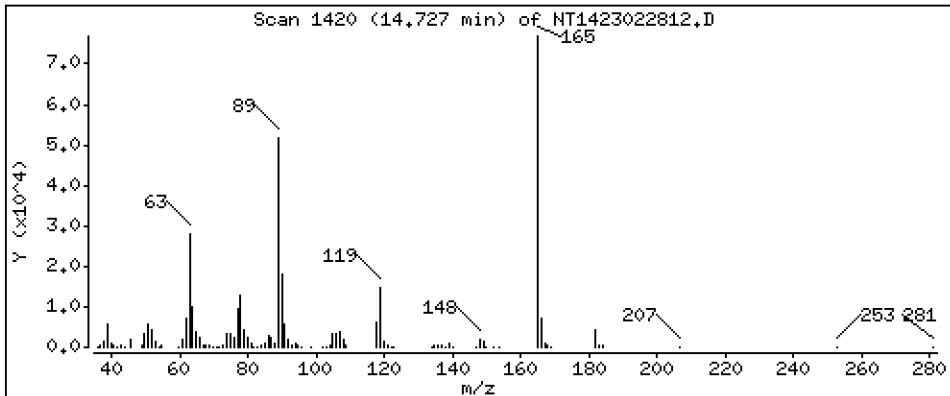
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 4,941 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

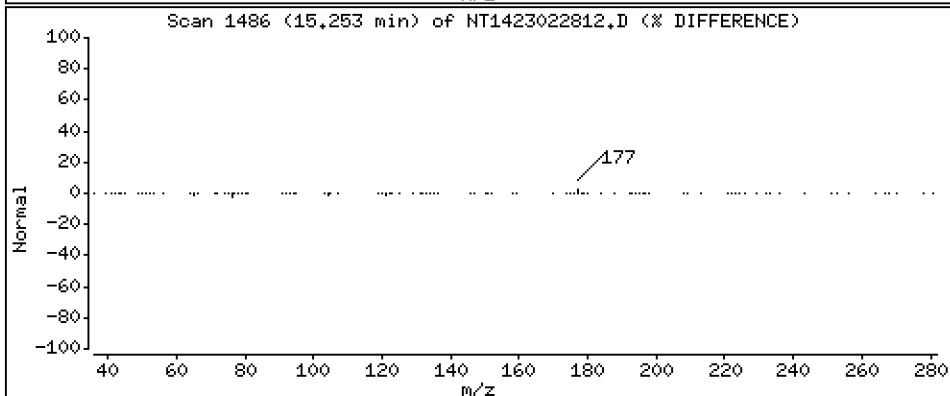
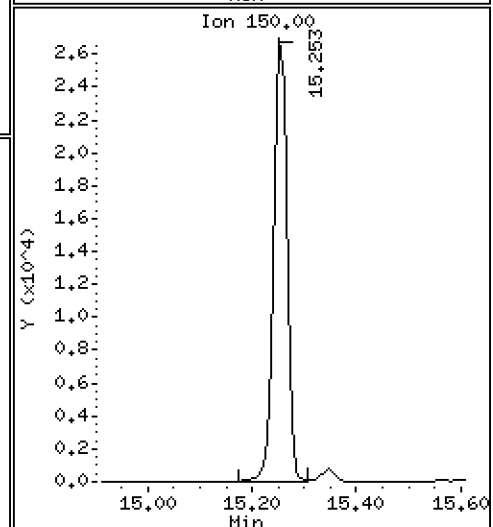
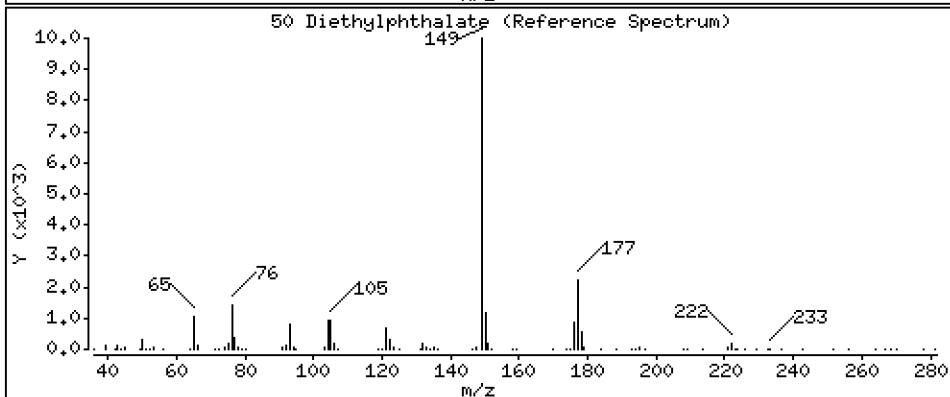
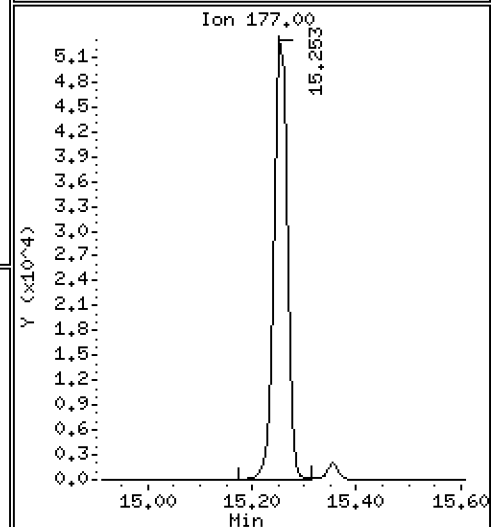
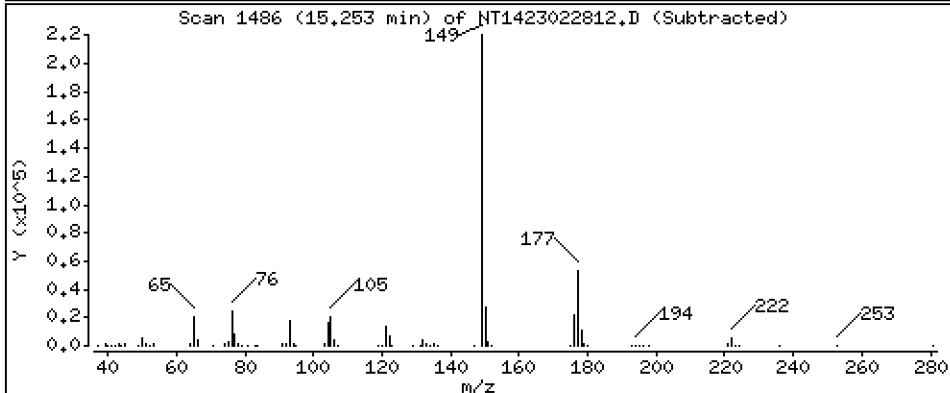
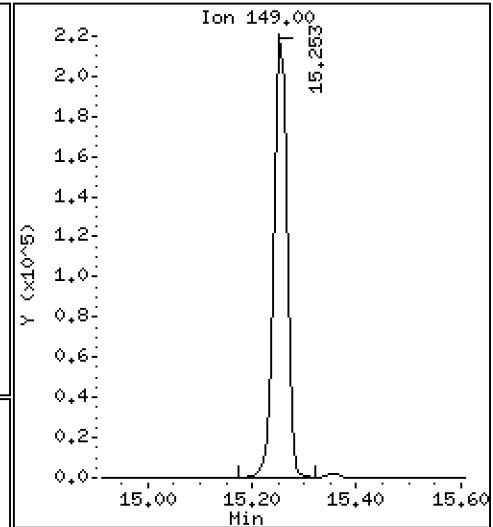
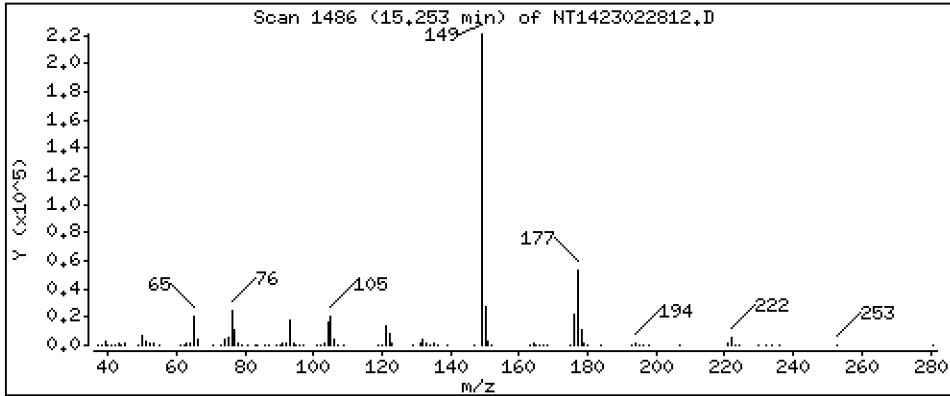
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 5.420 ug/mL



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Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

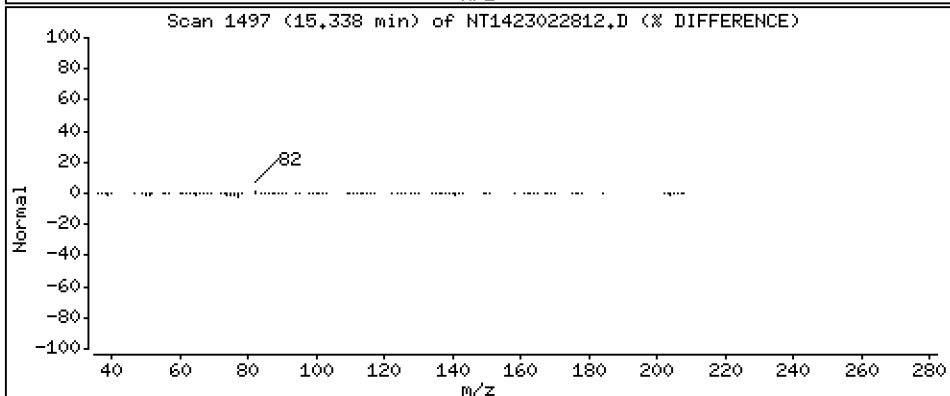
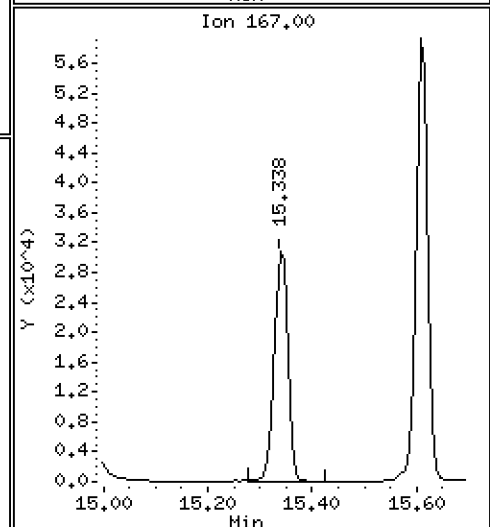
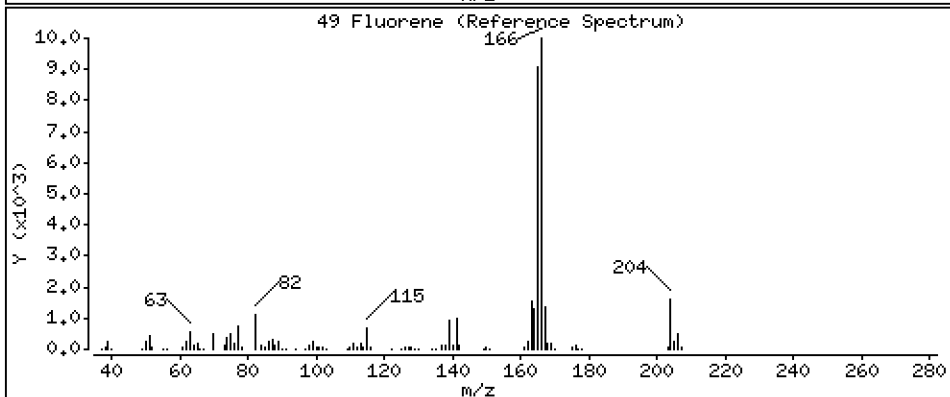
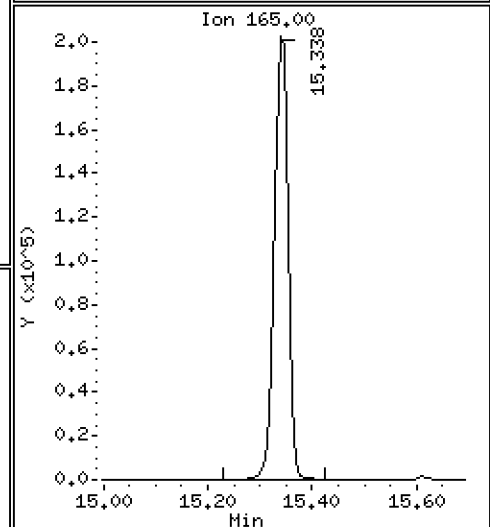
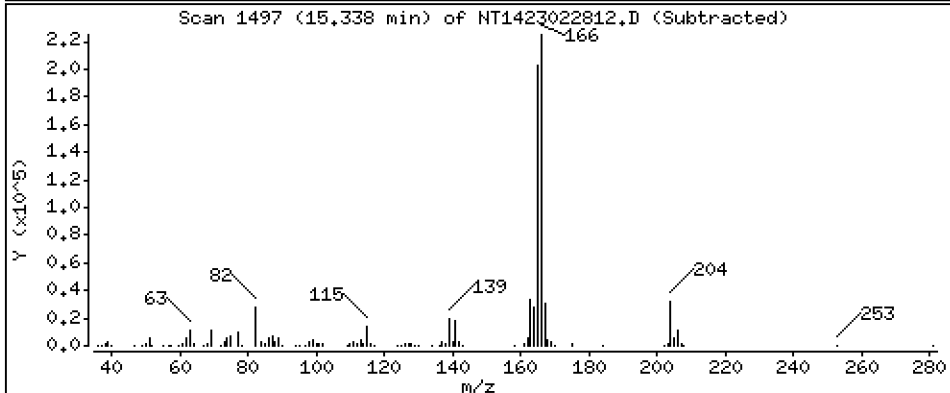
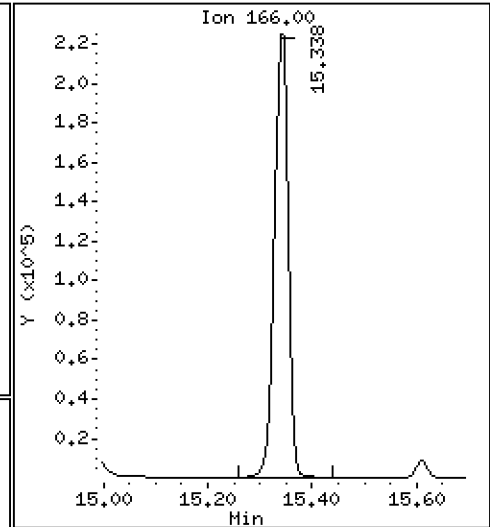
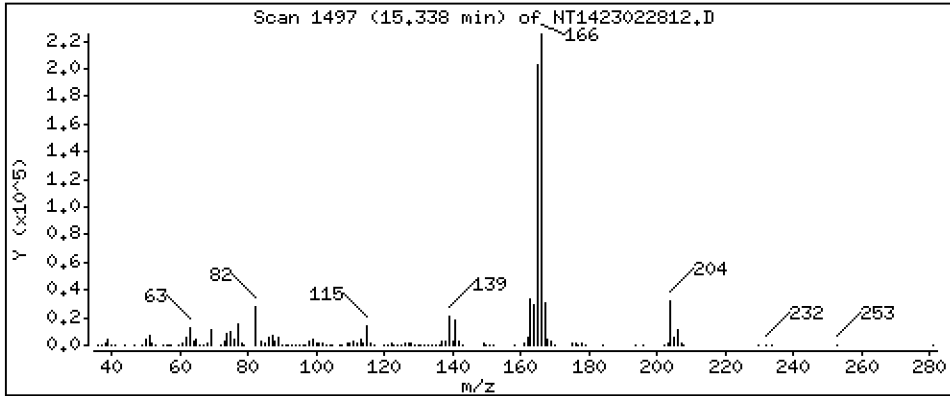
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,793 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

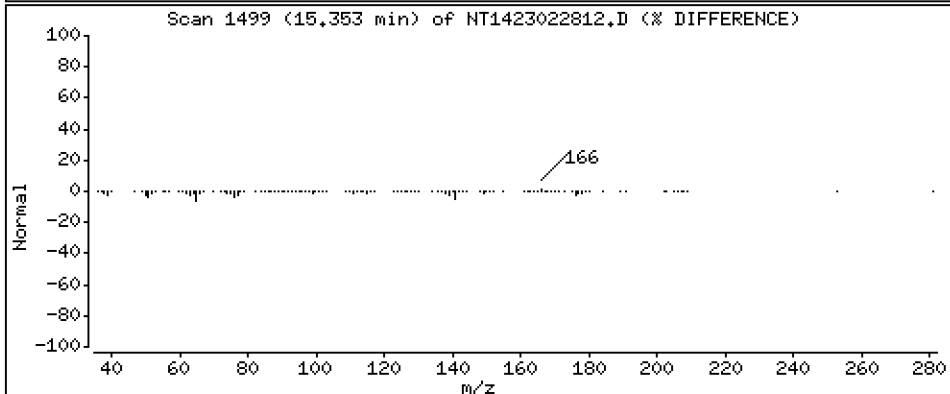
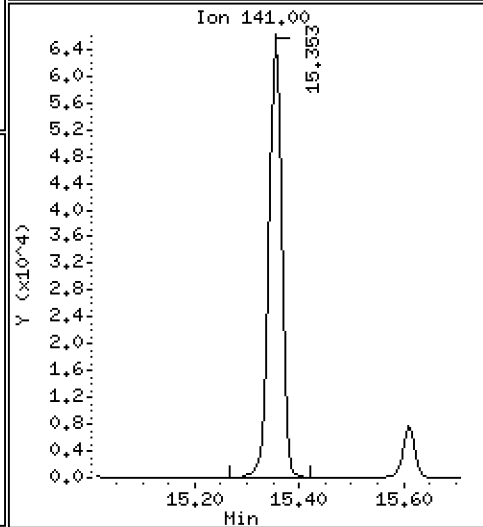
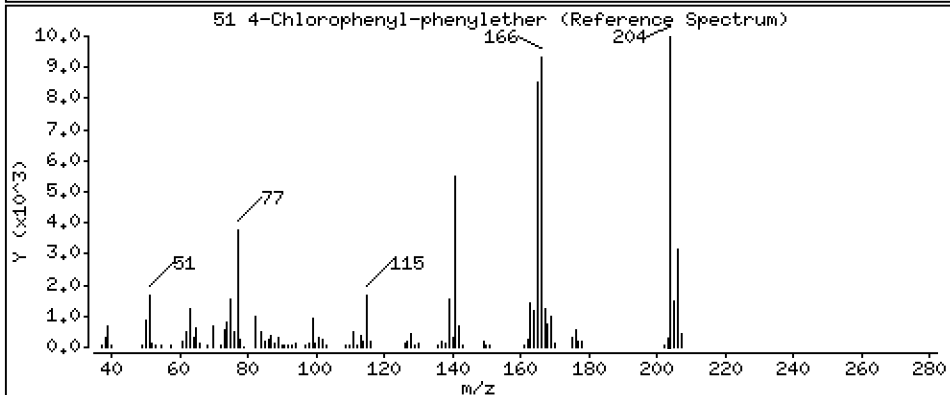
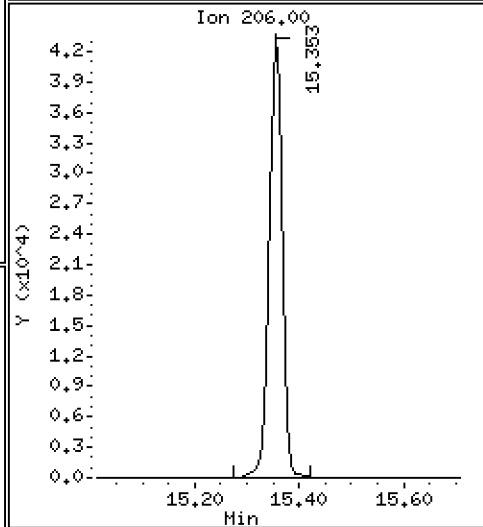
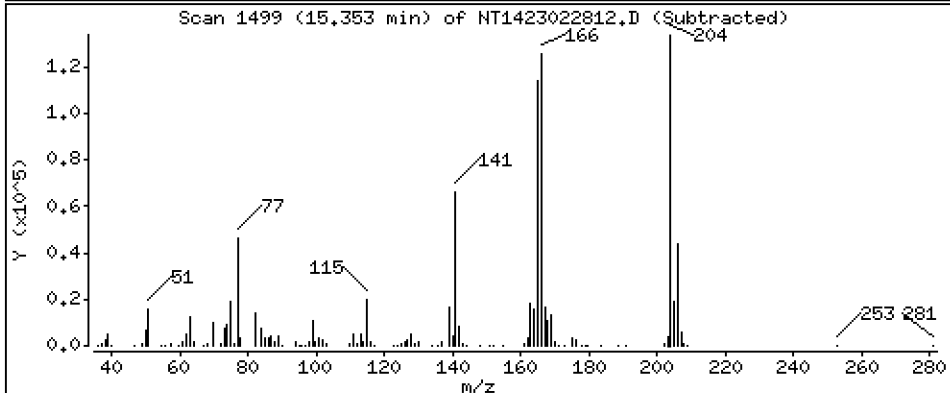
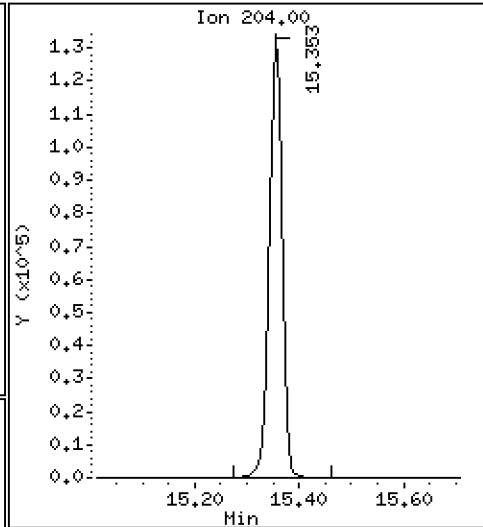
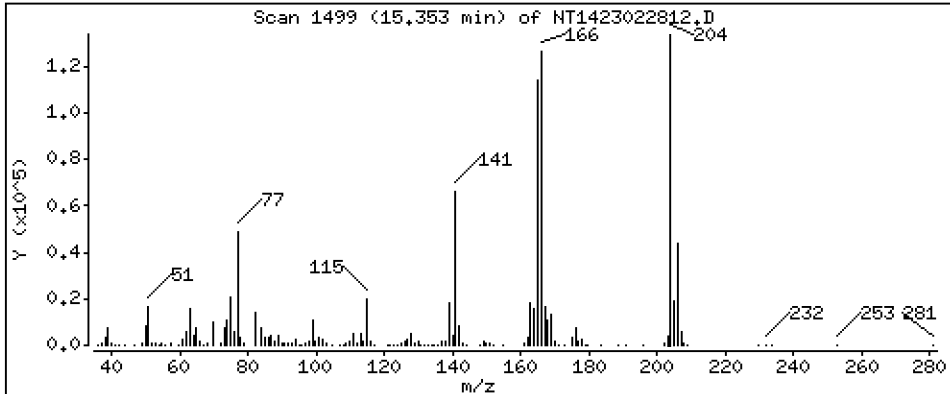
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,884 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

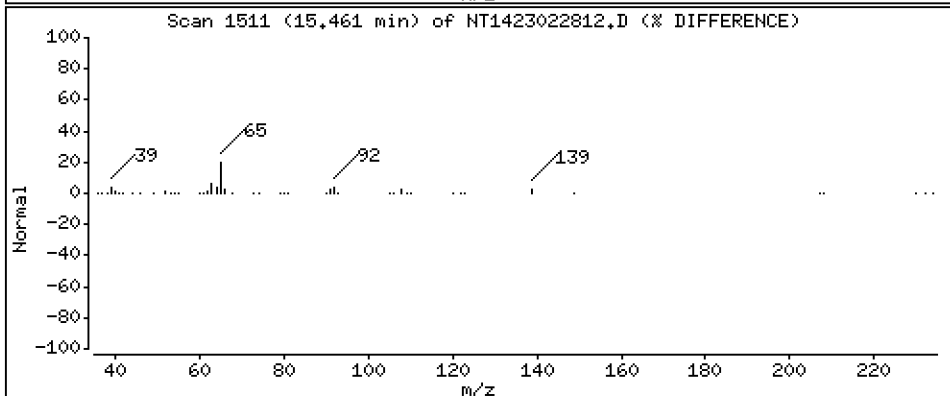
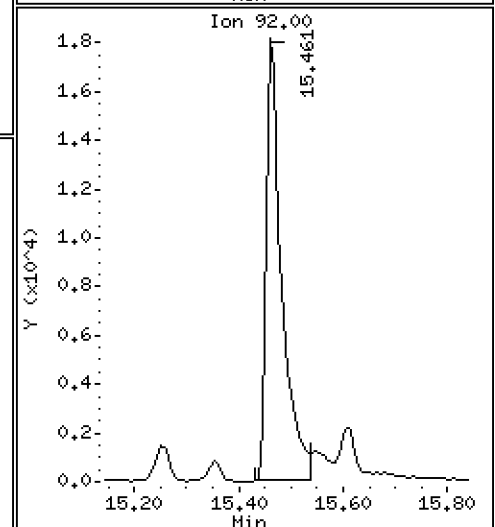
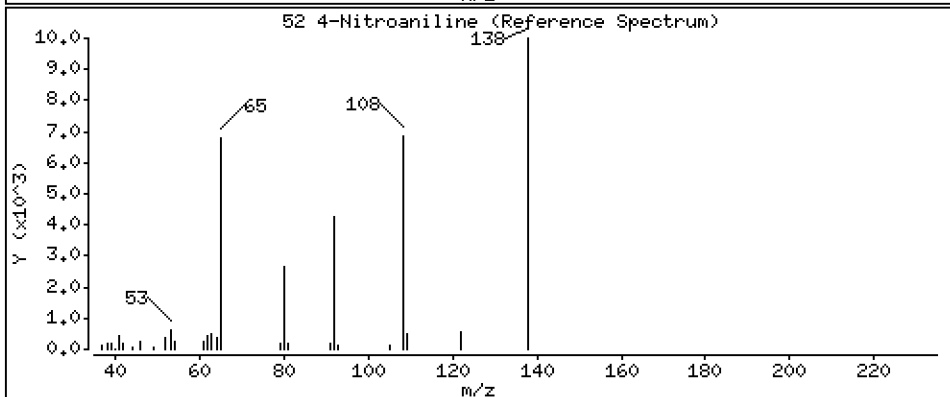
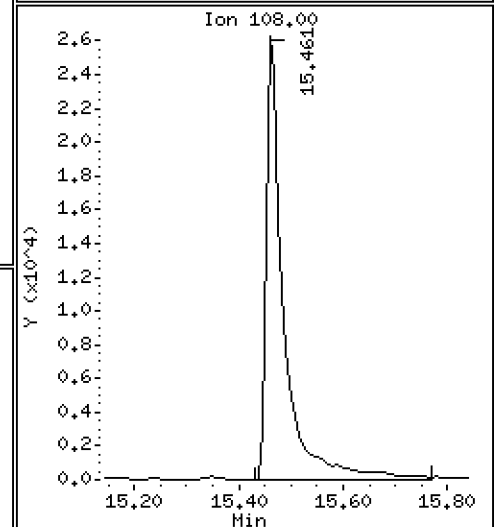
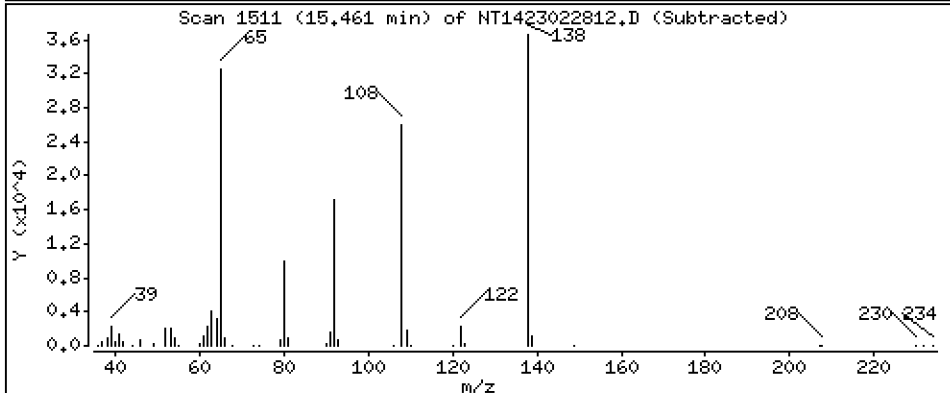
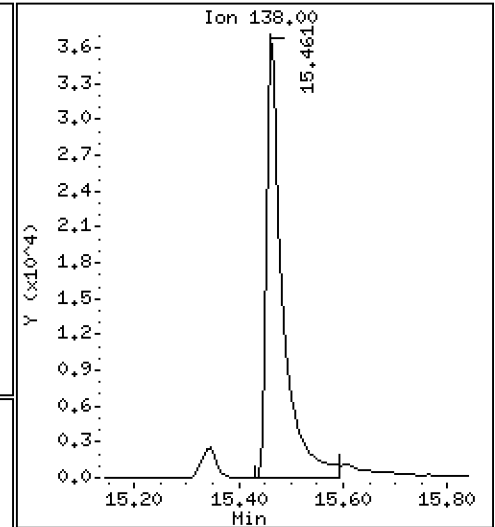
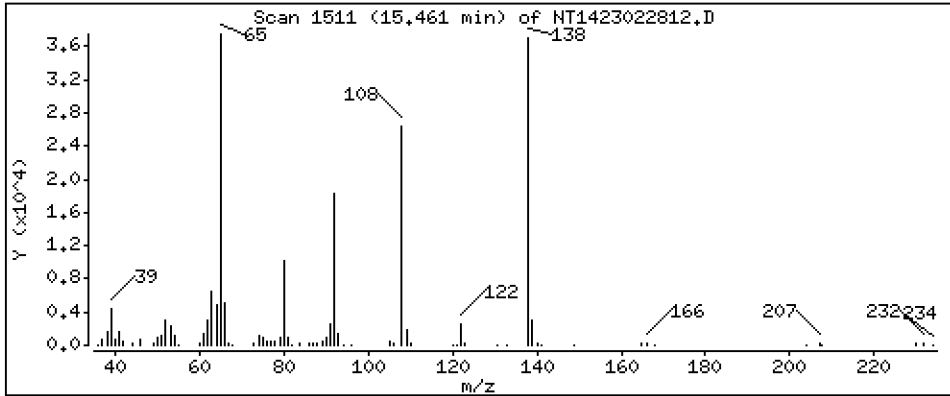
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 4,560 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

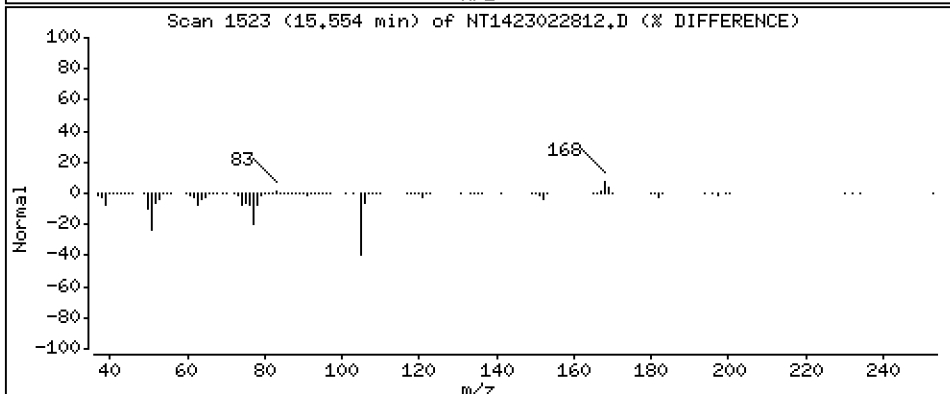
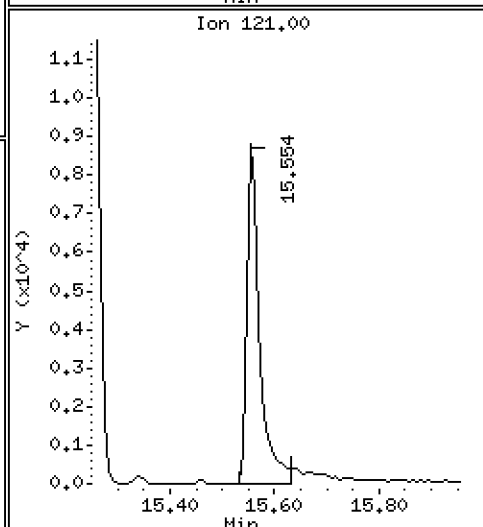
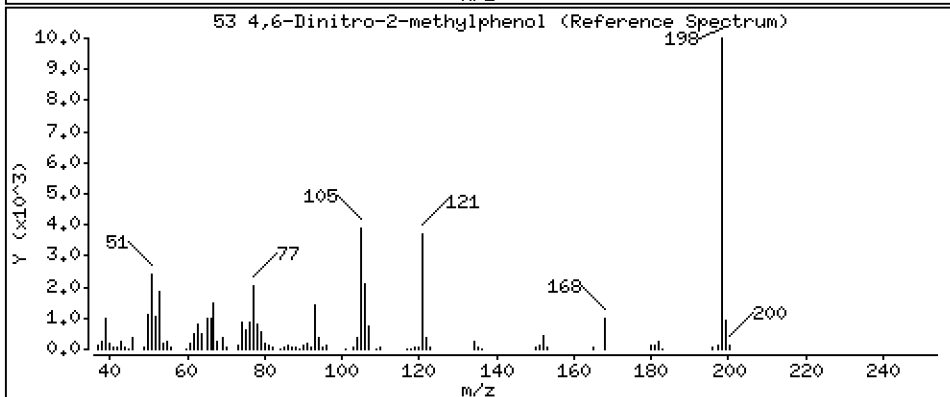
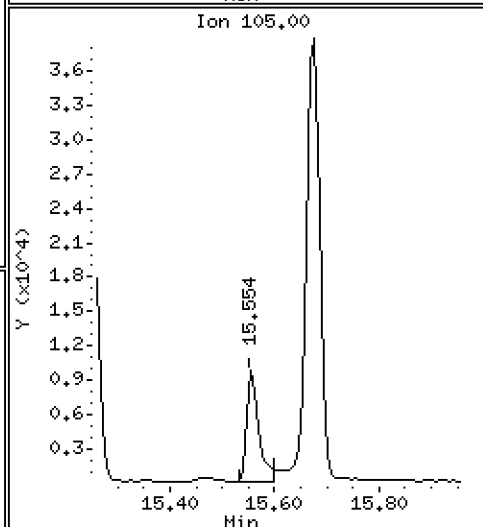
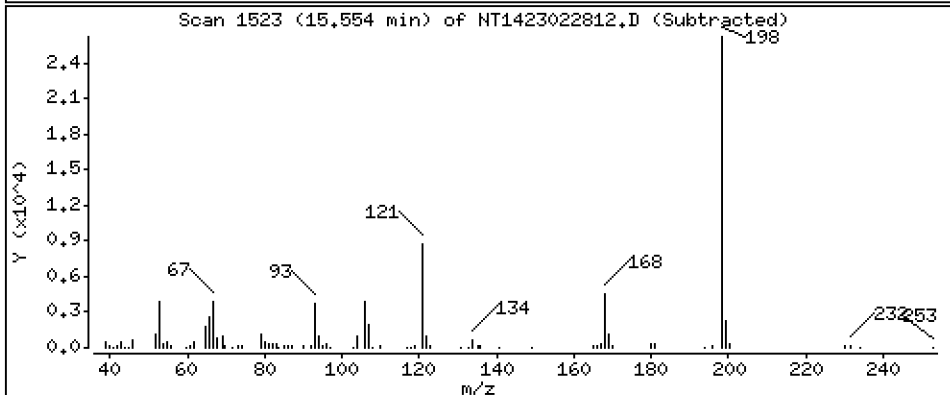
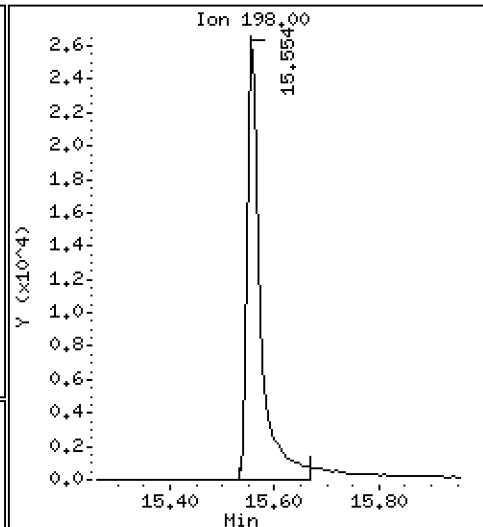
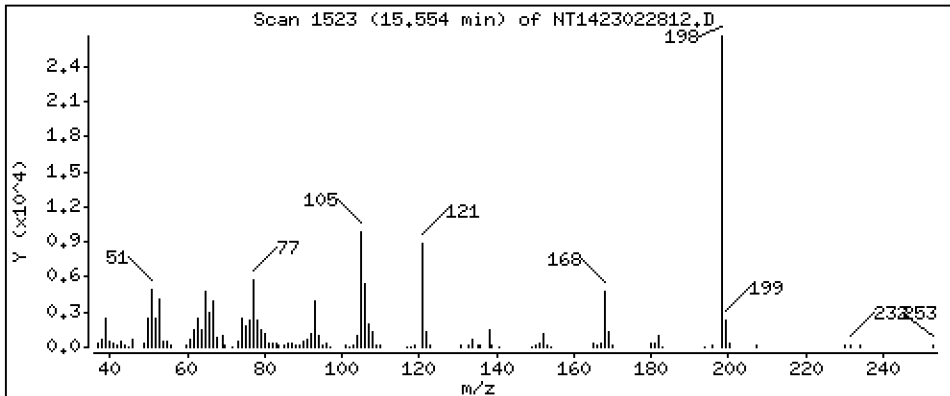
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 3,234 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

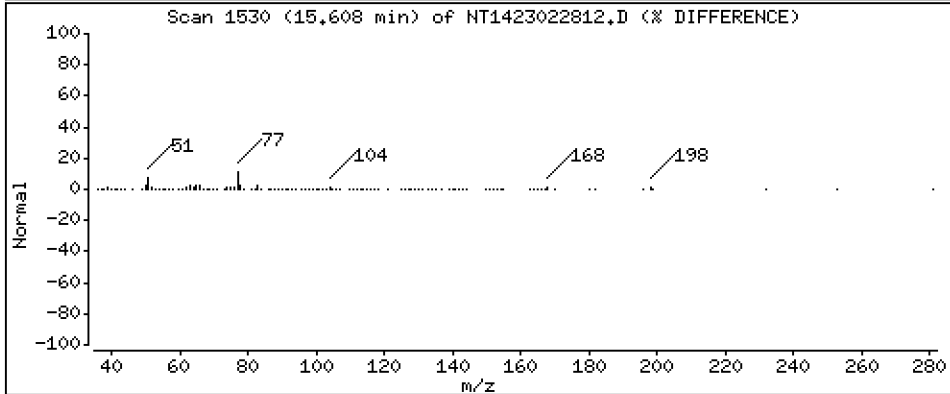
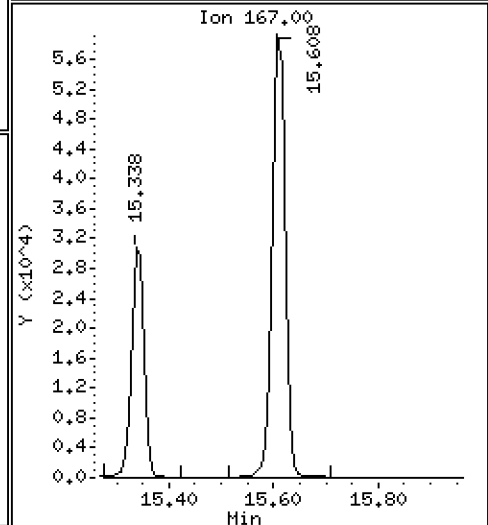
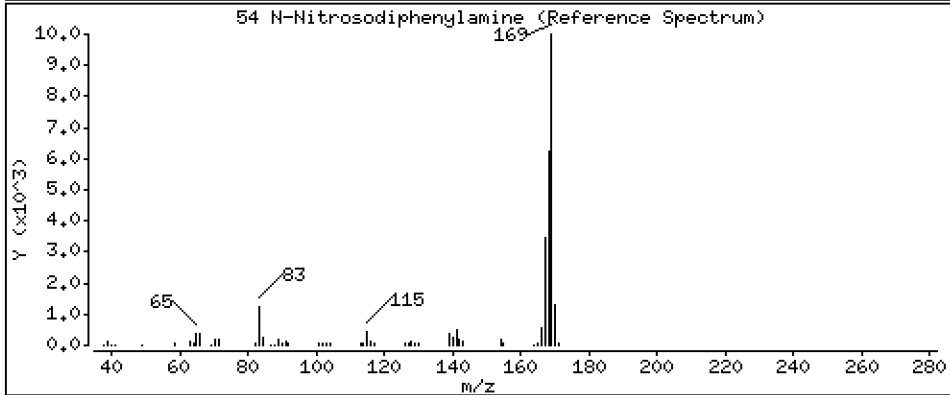
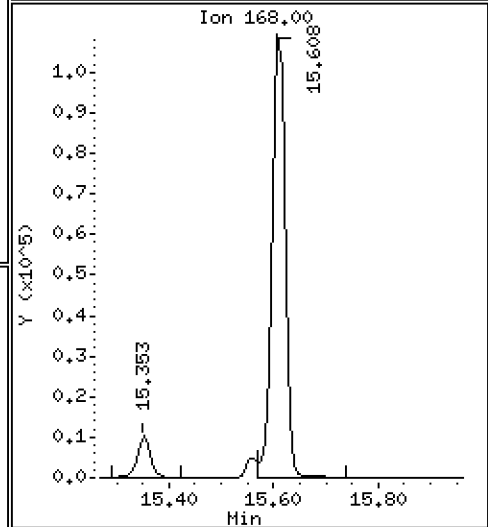
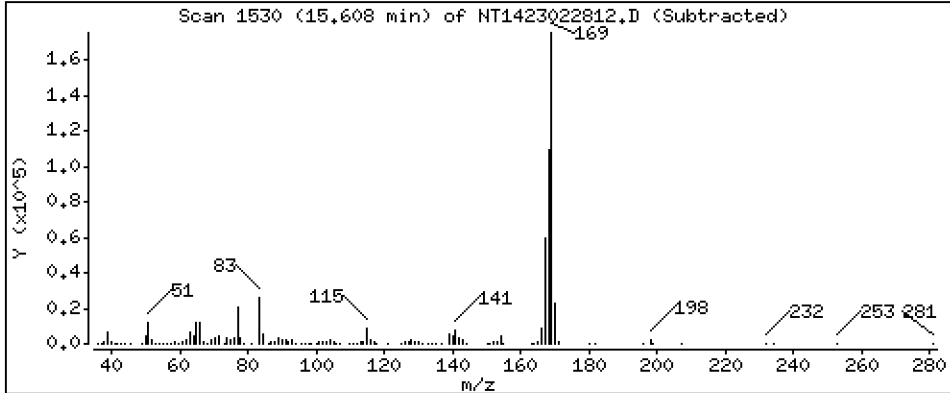
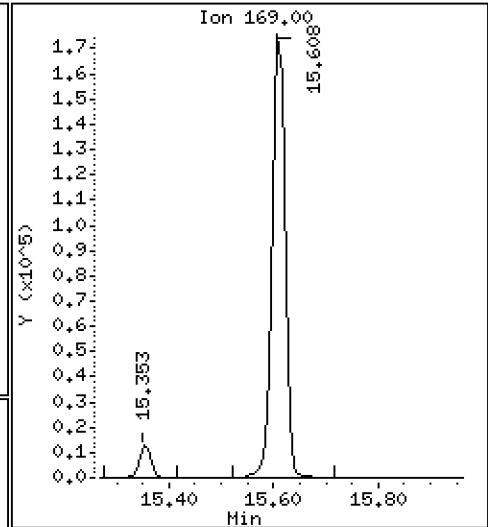
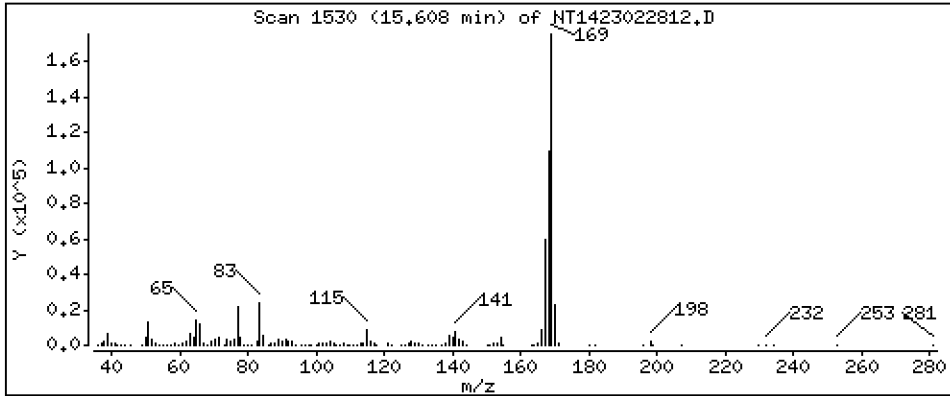
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,980 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

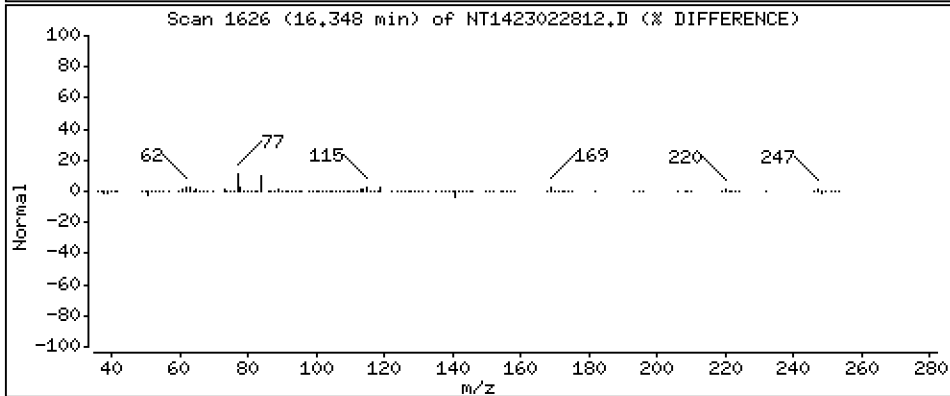
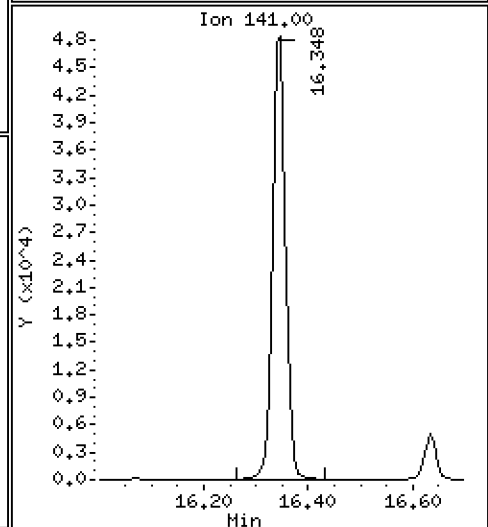
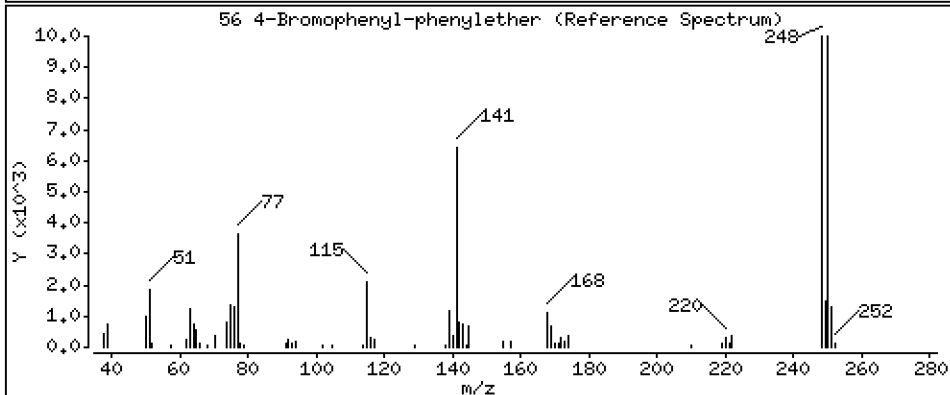
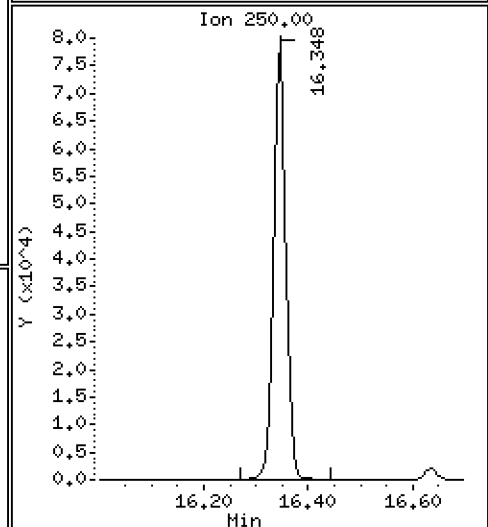
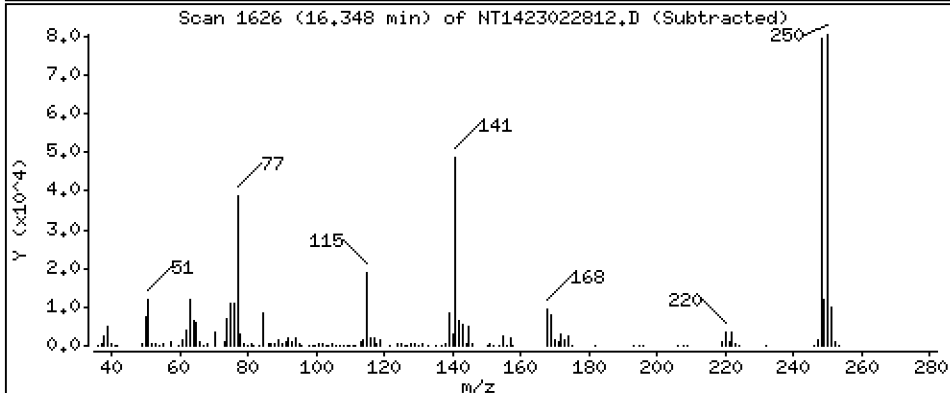
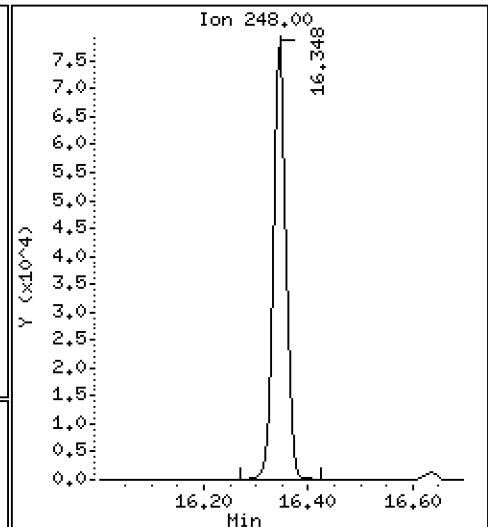
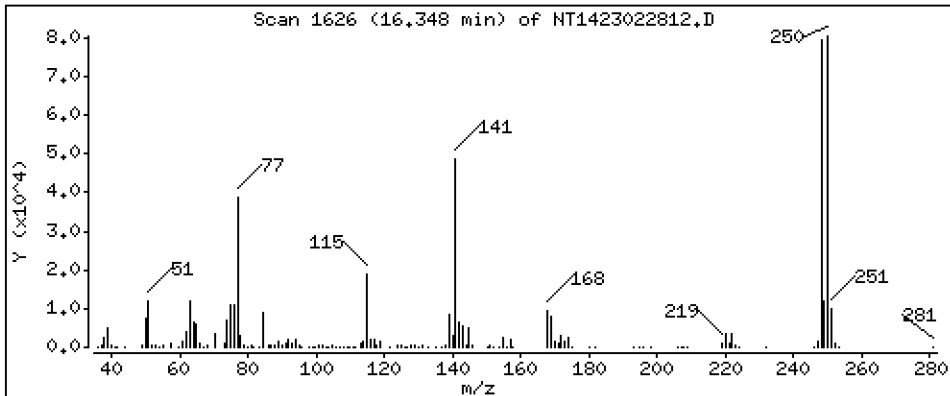
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,152 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

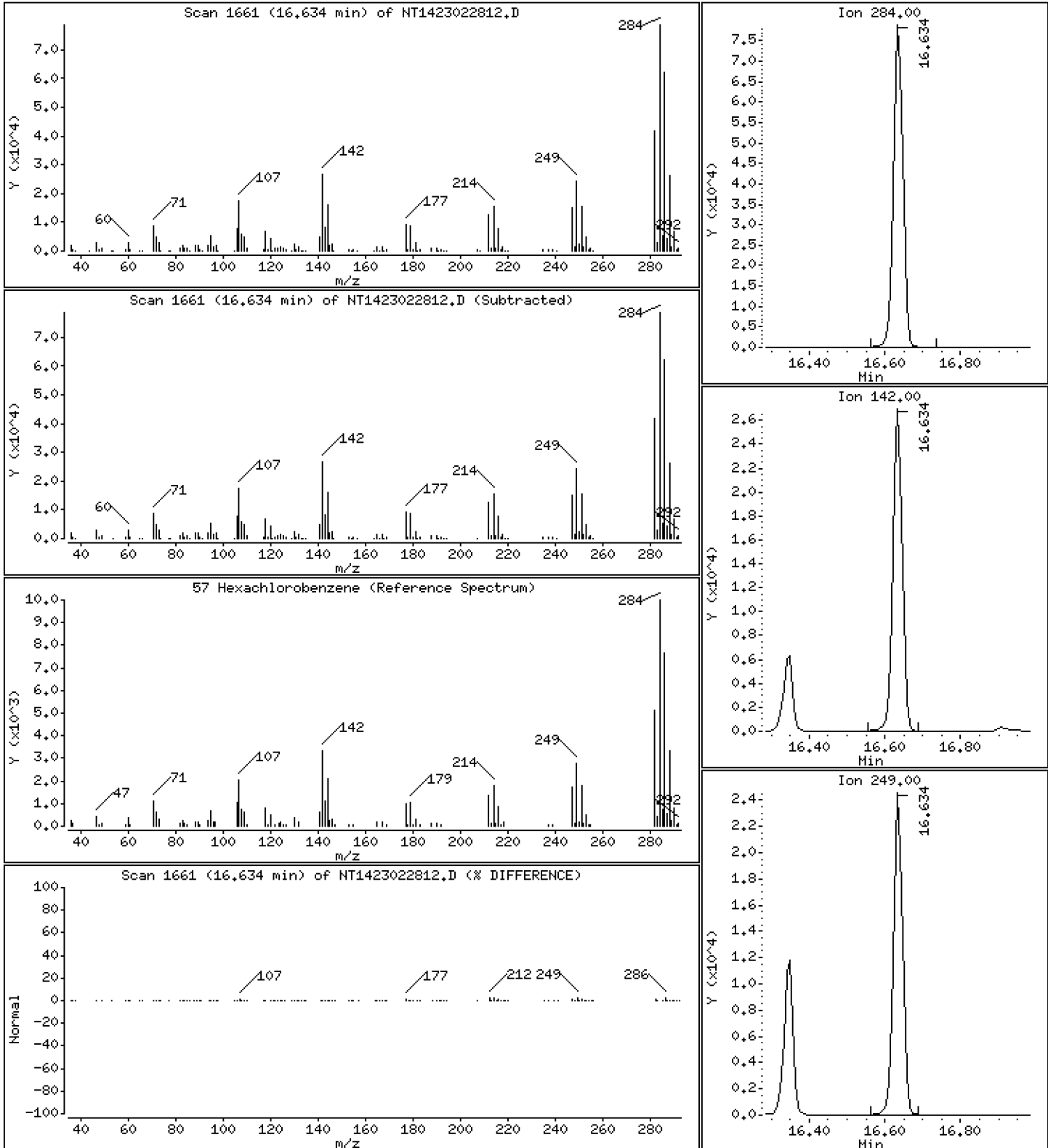
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 4.790 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

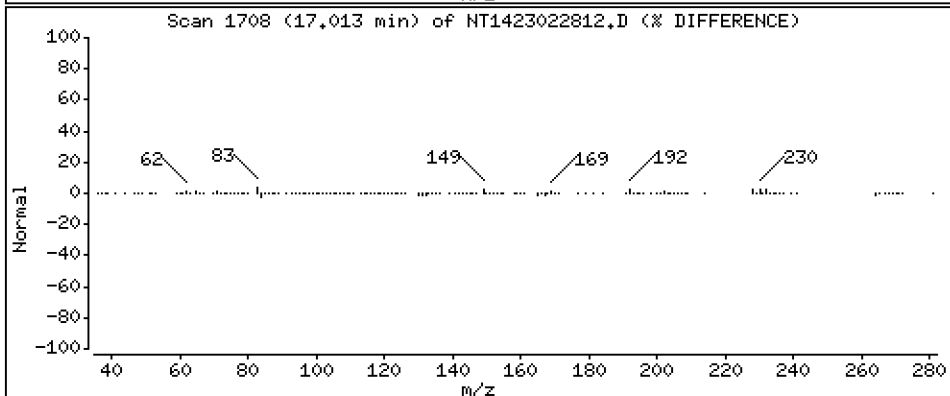
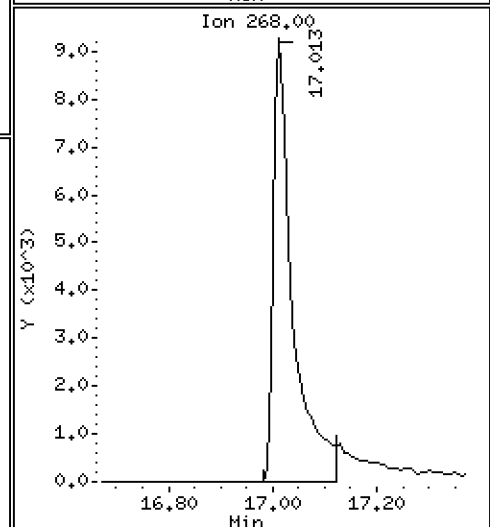
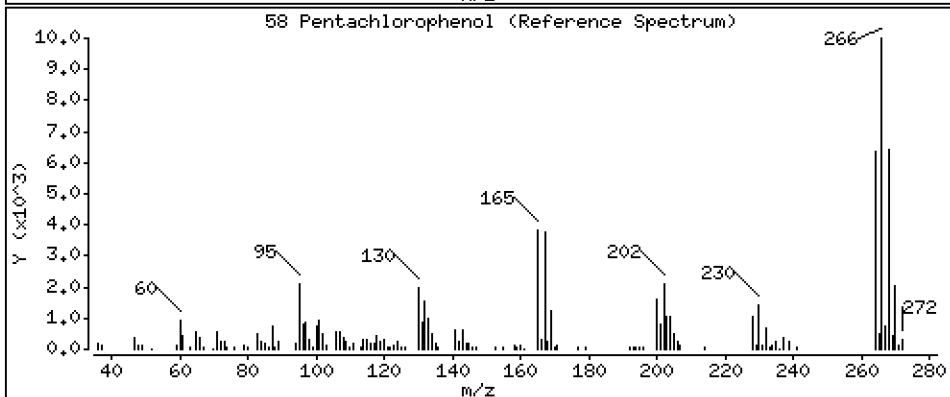
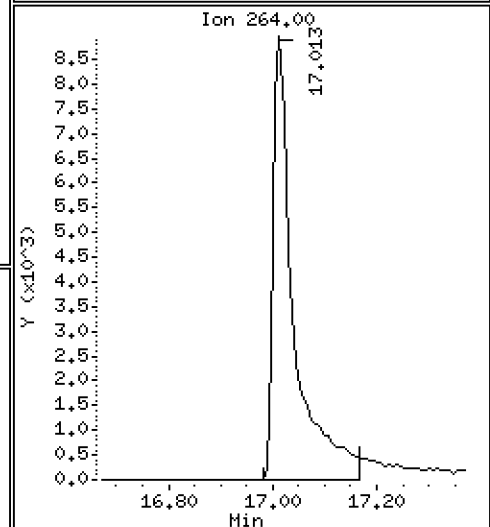
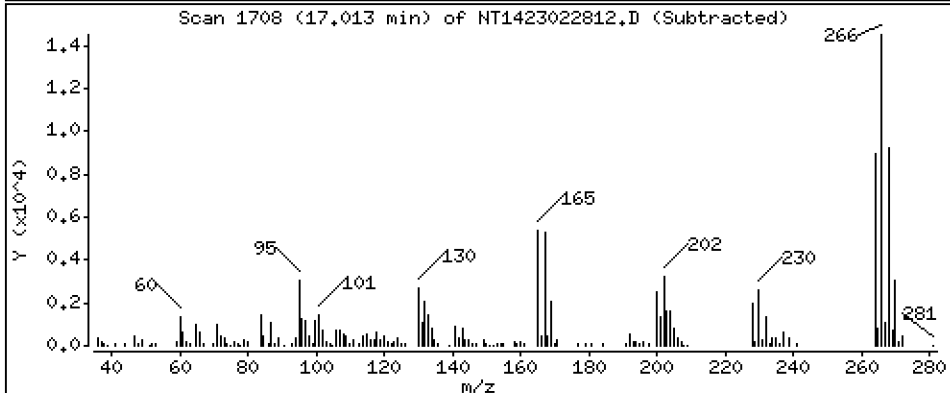
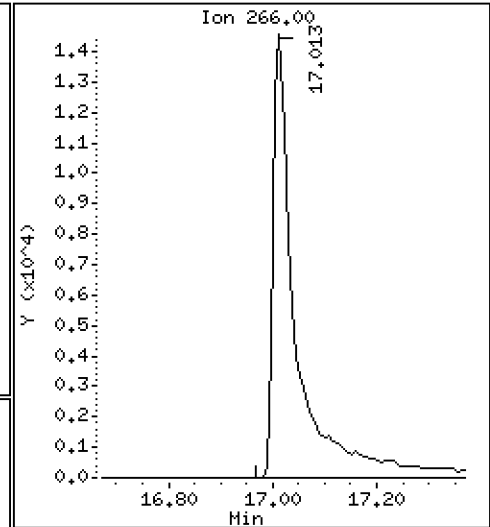
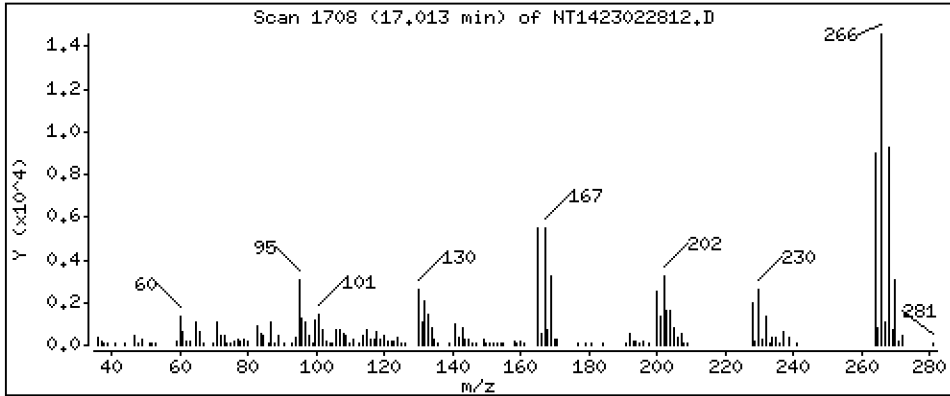
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 3,524 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

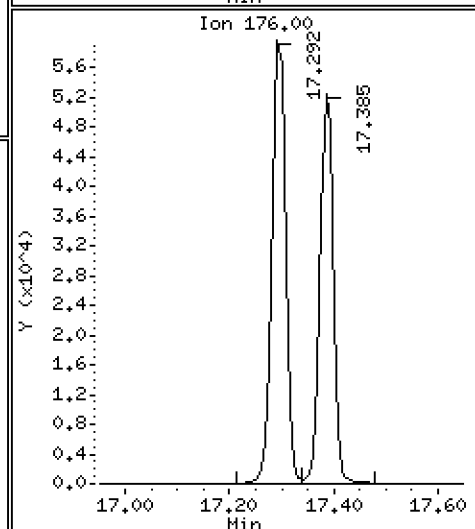
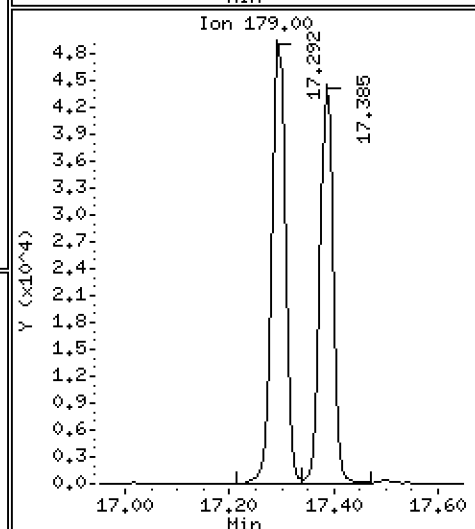
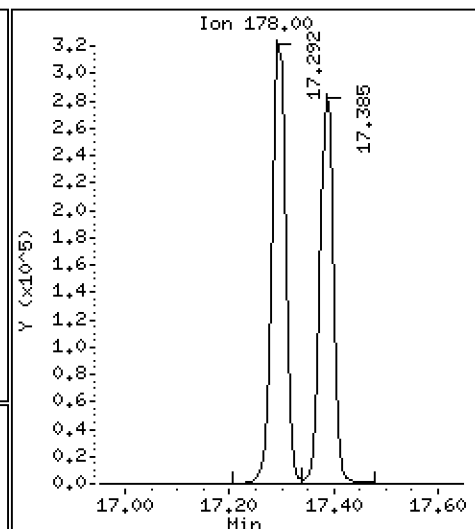
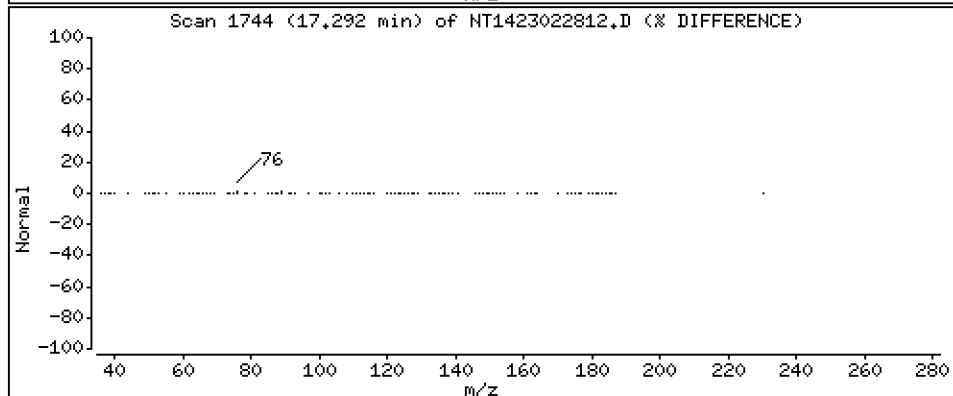
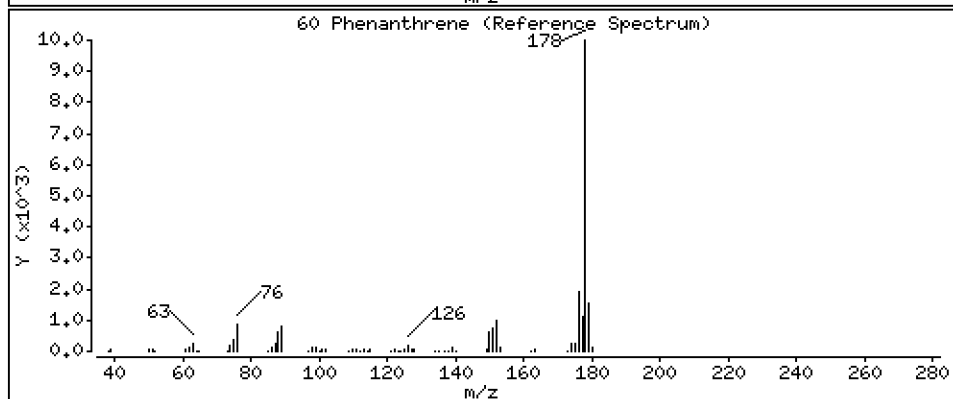
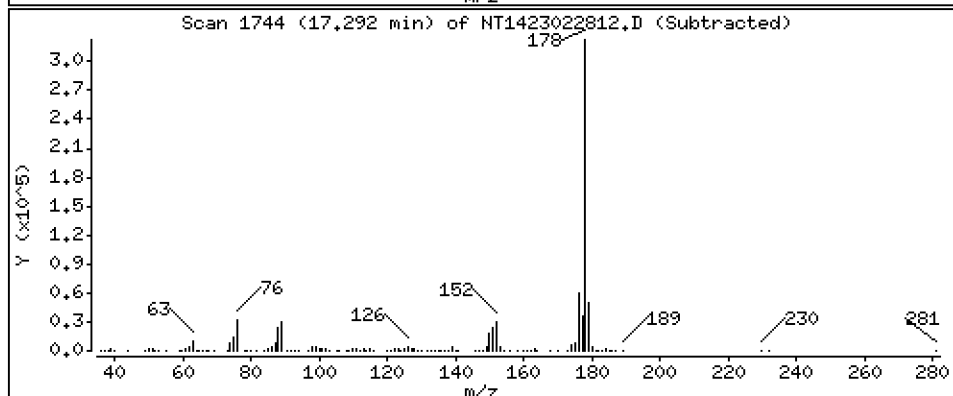
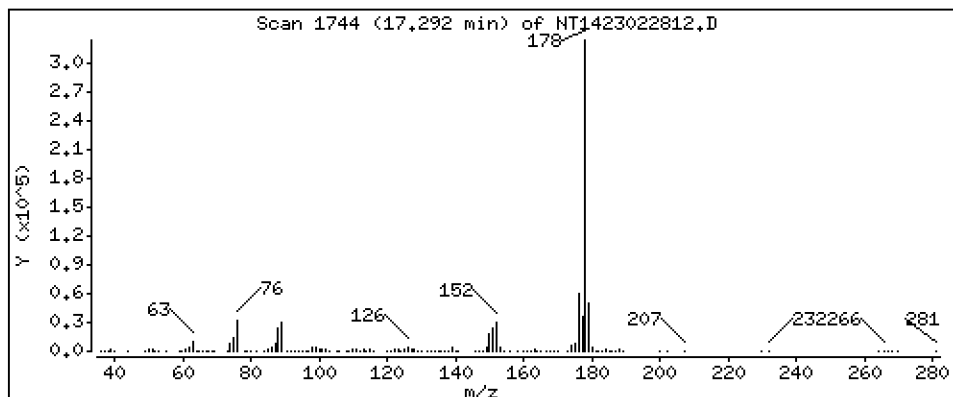
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,615 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

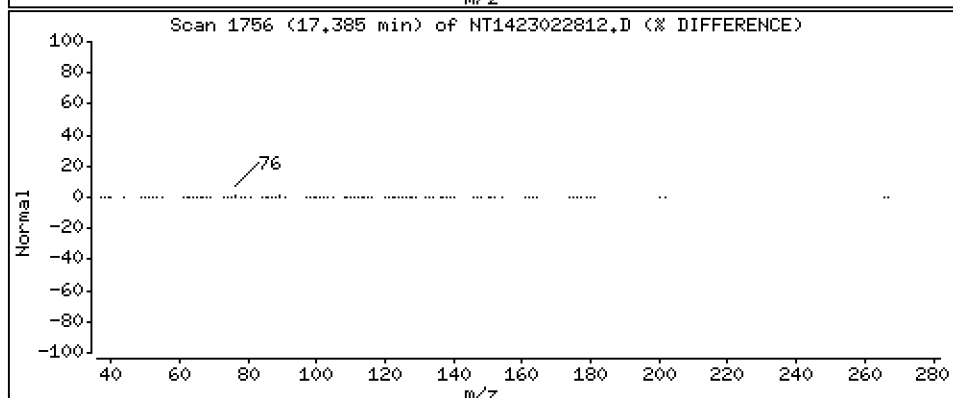
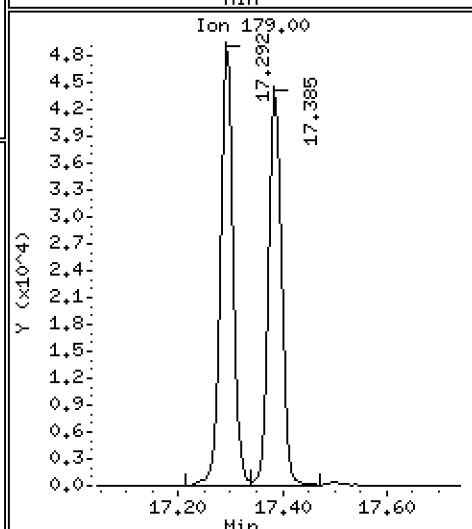
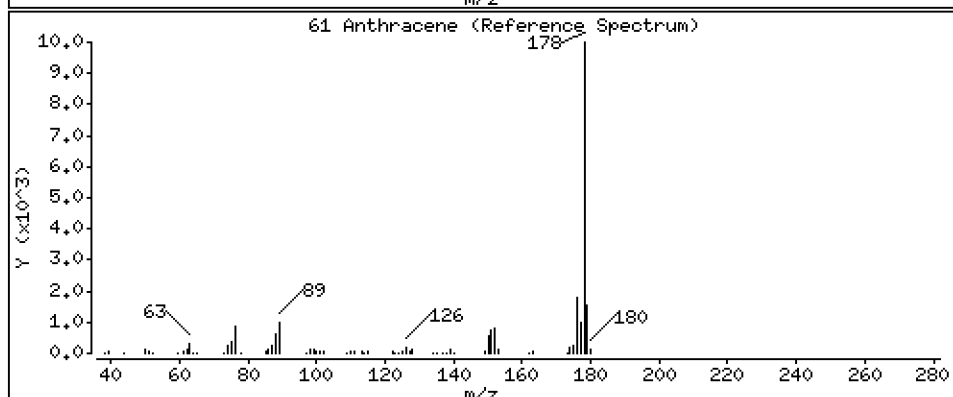
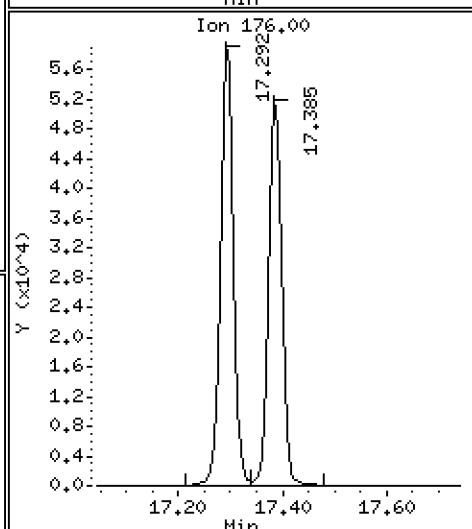
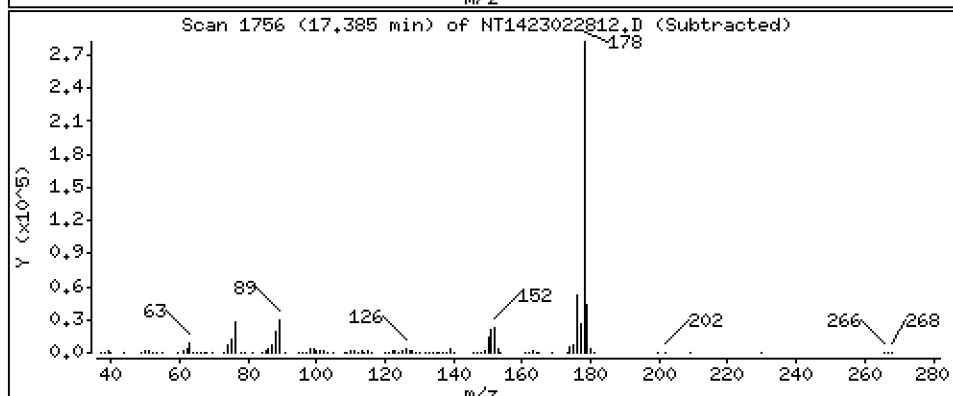
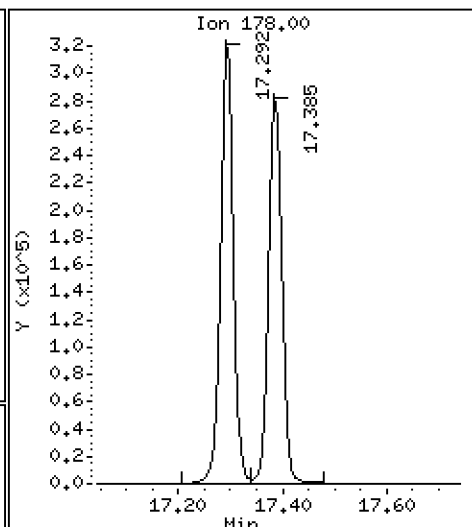
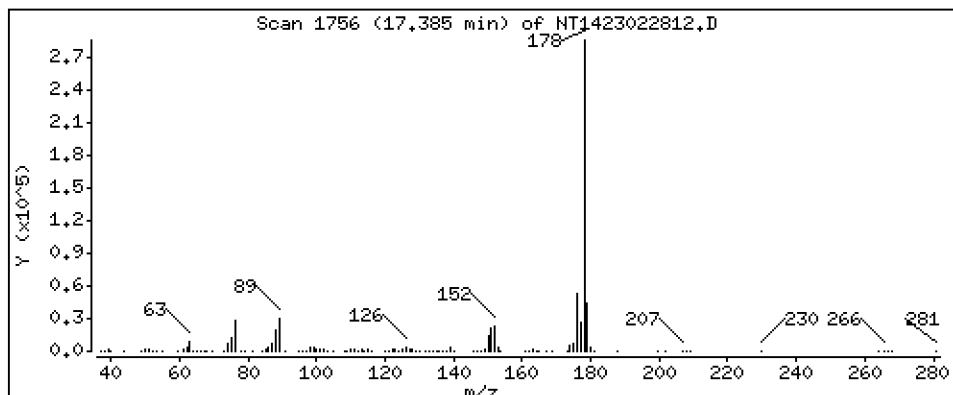
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,224 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

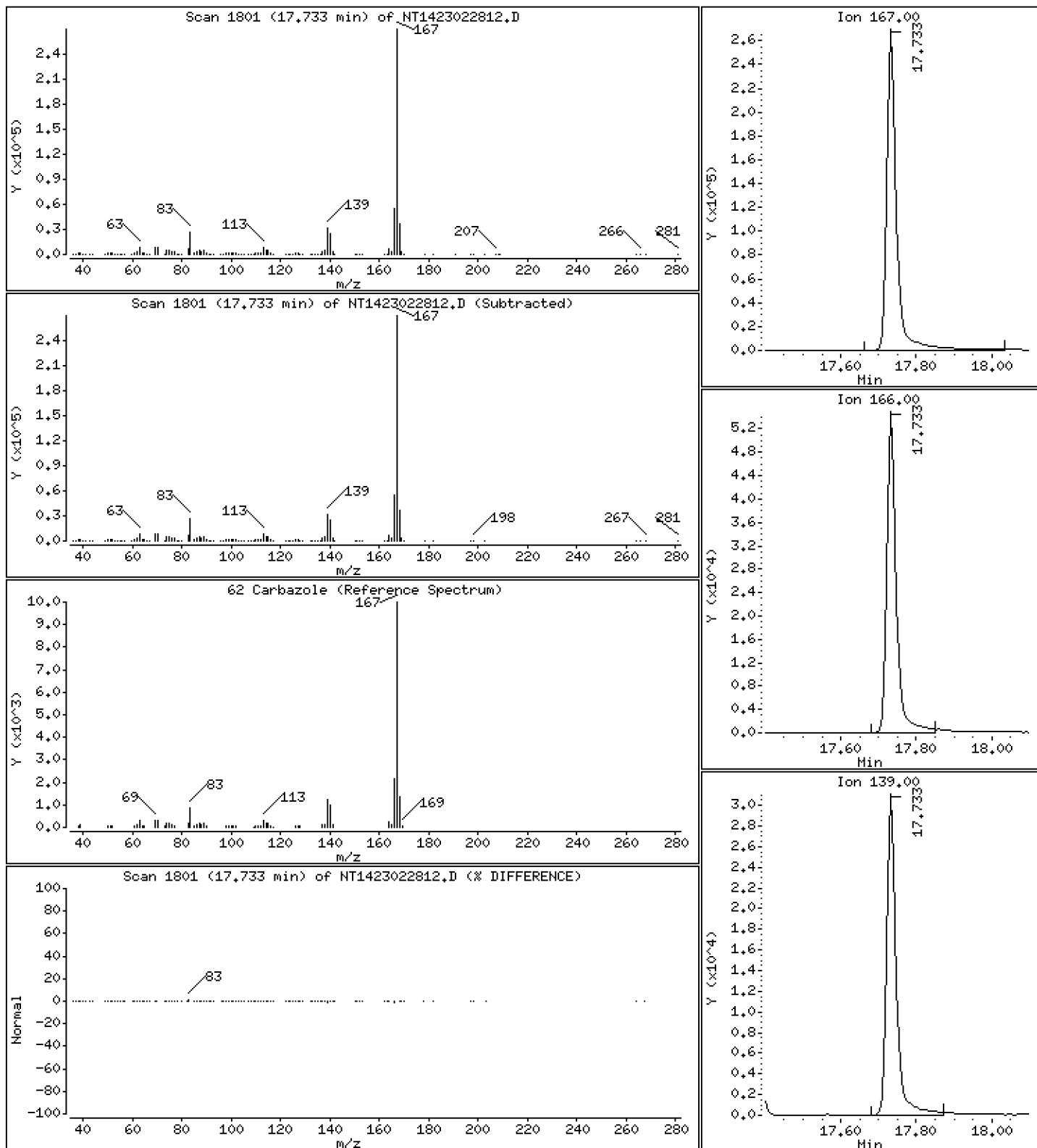
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,776 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

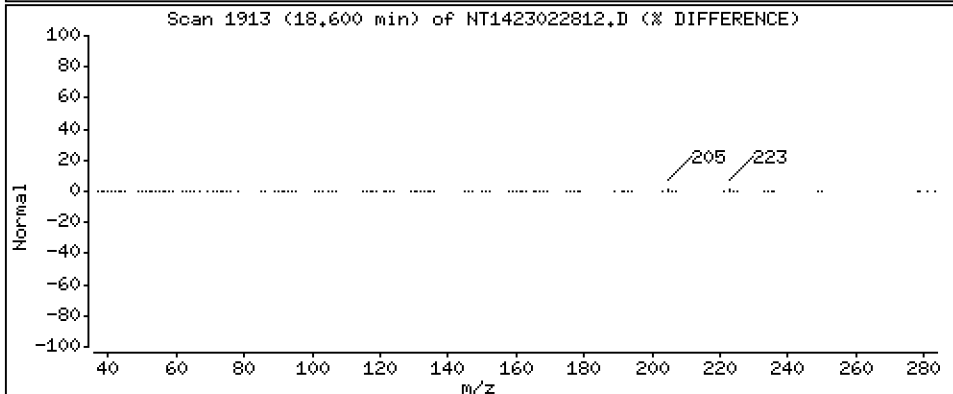
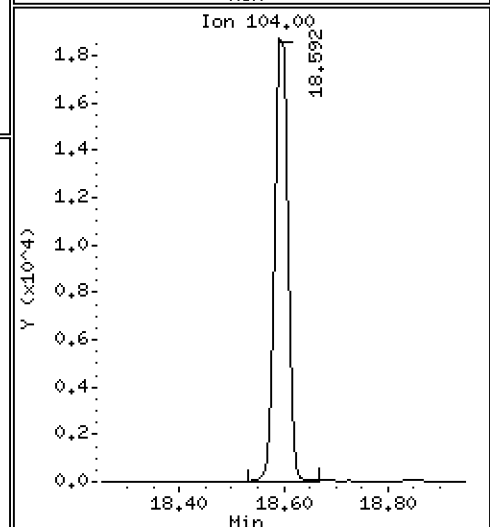
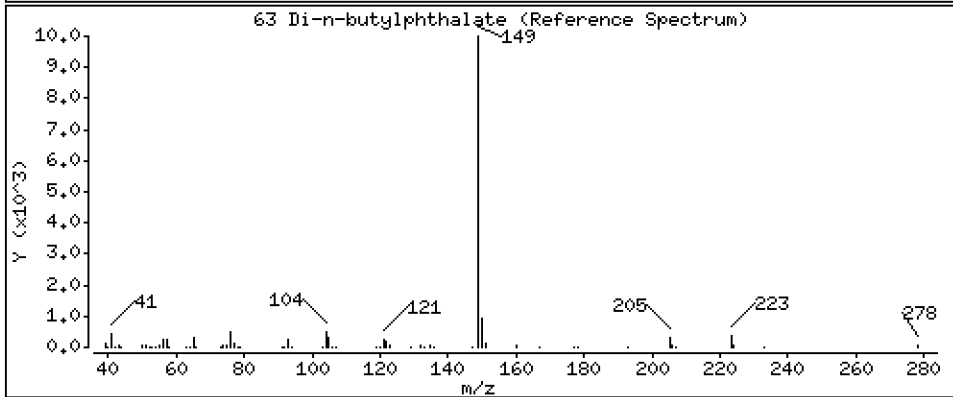
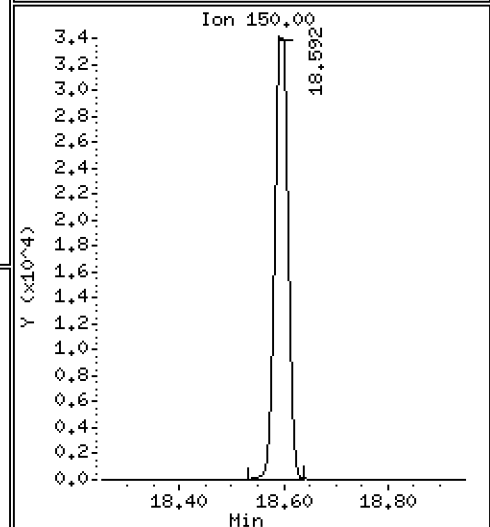
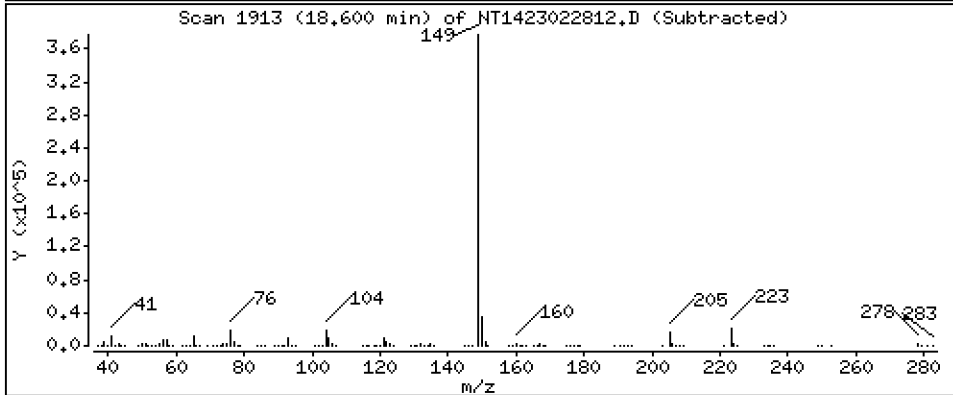
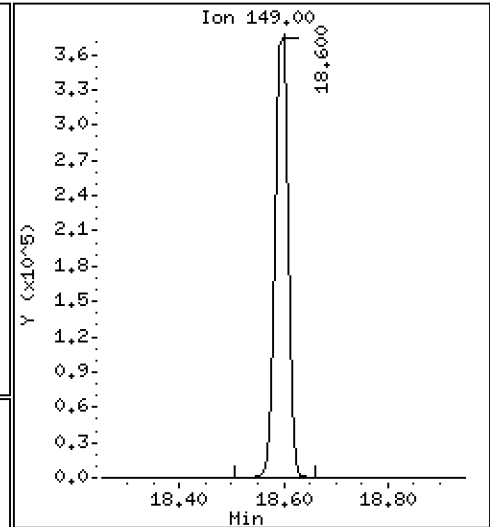
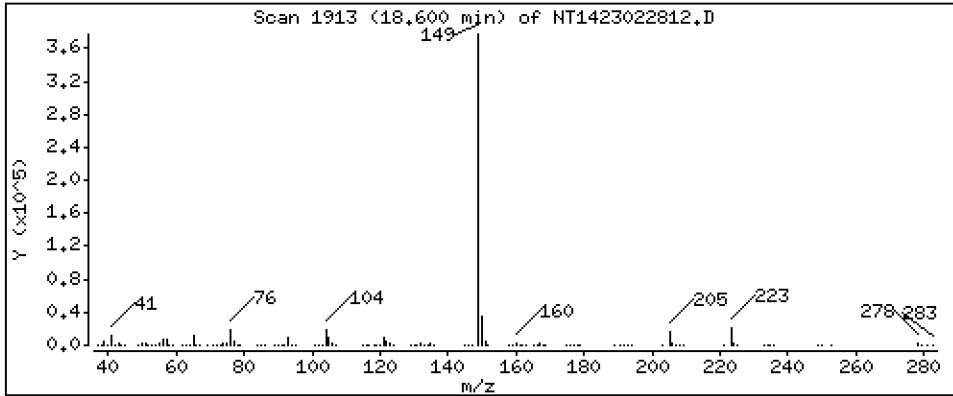
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,819 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

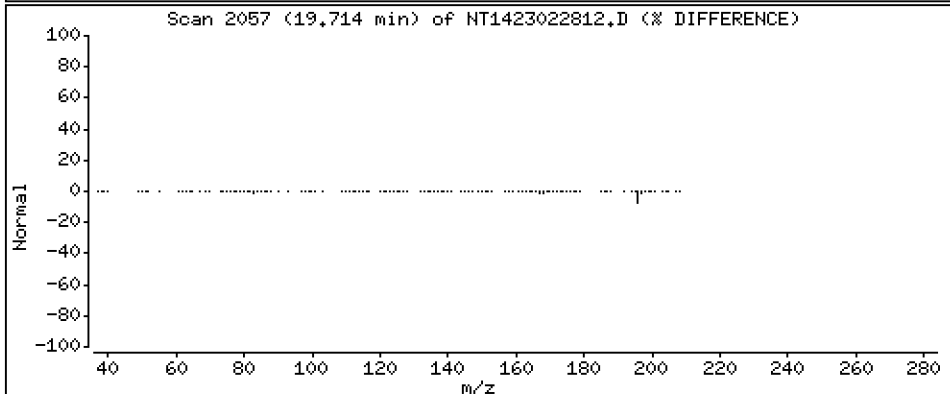
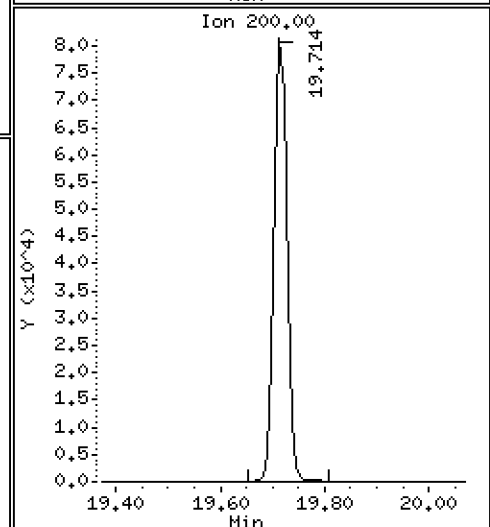
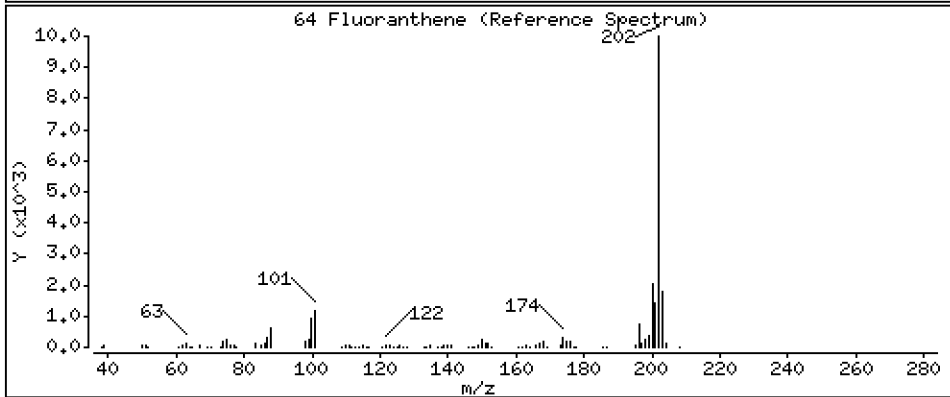
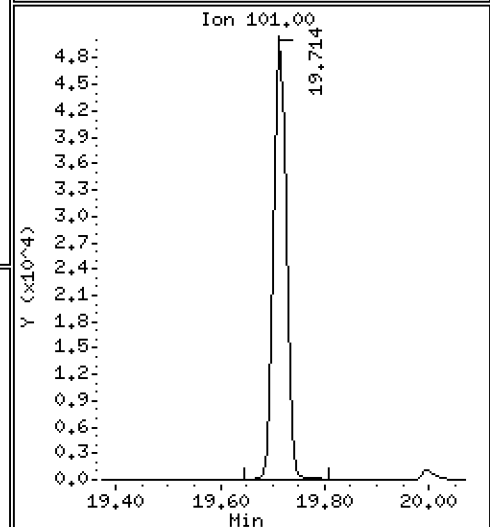
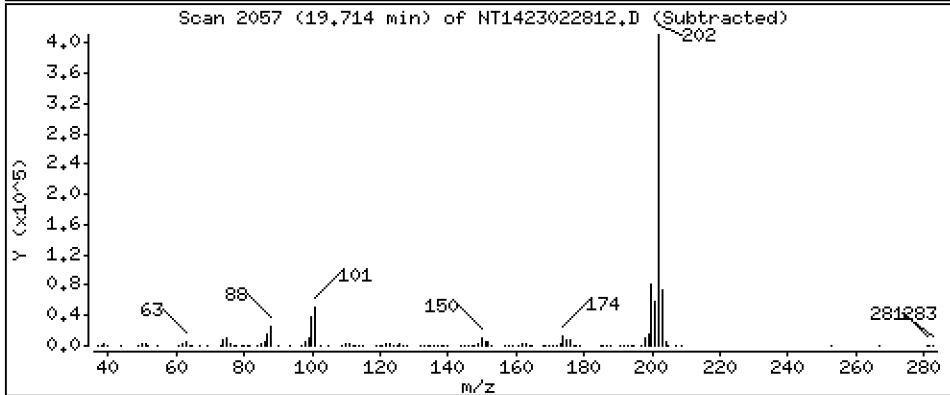
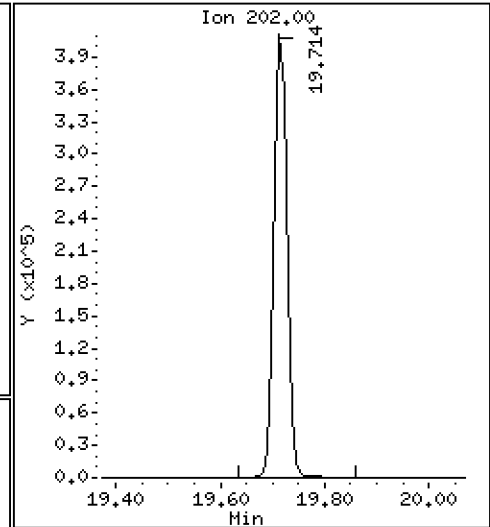
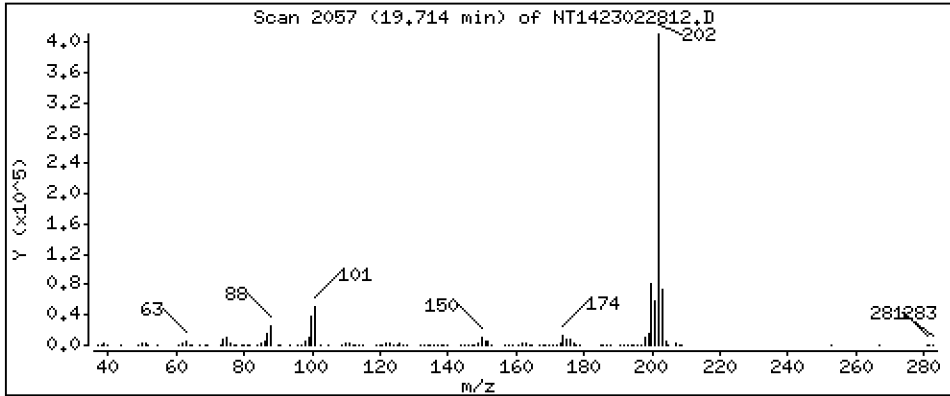
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 5,104 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

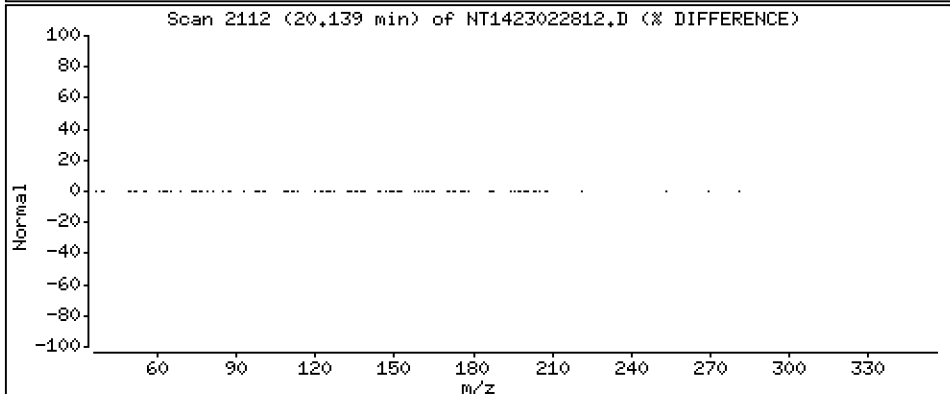
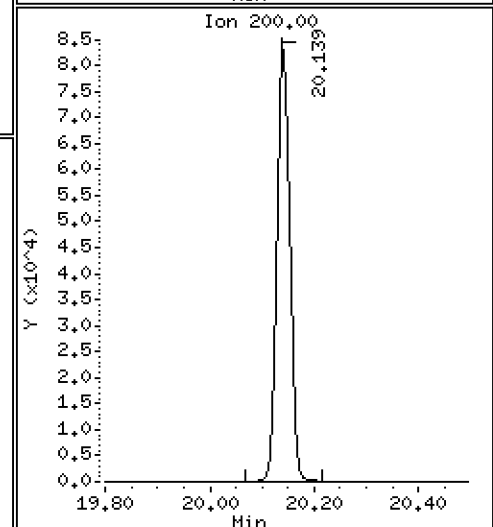
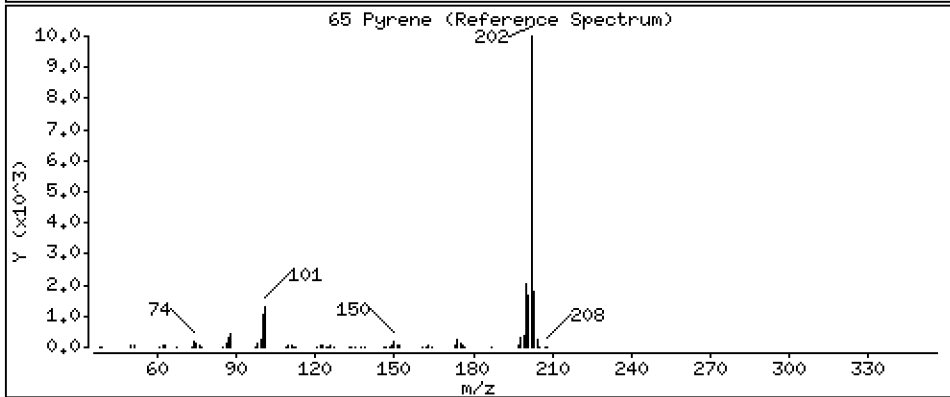
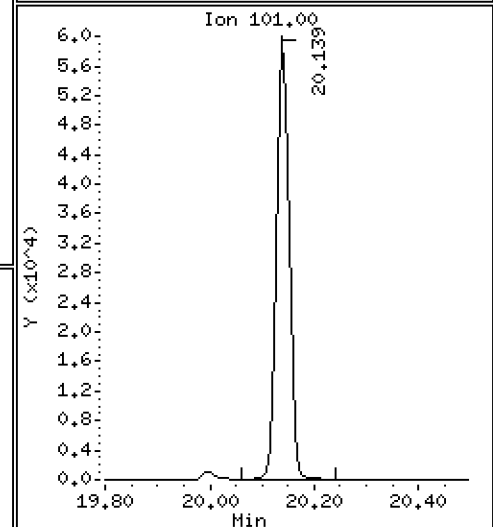
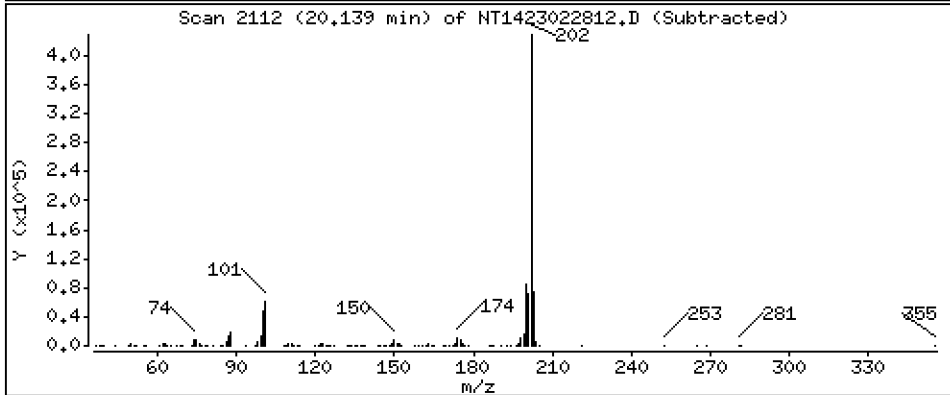
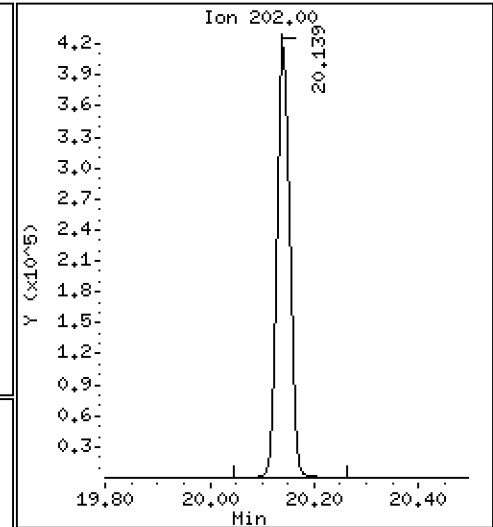
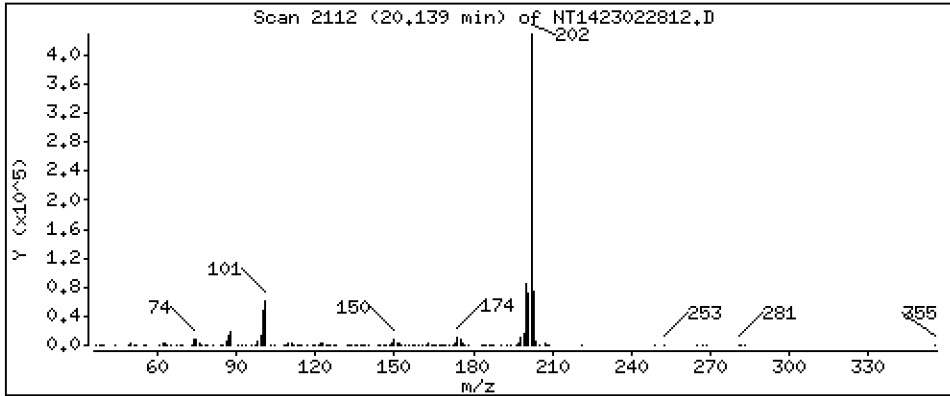
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,957 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

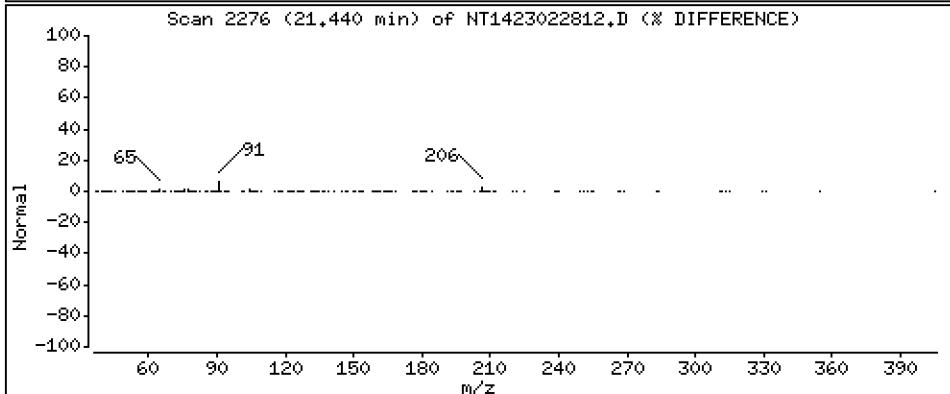
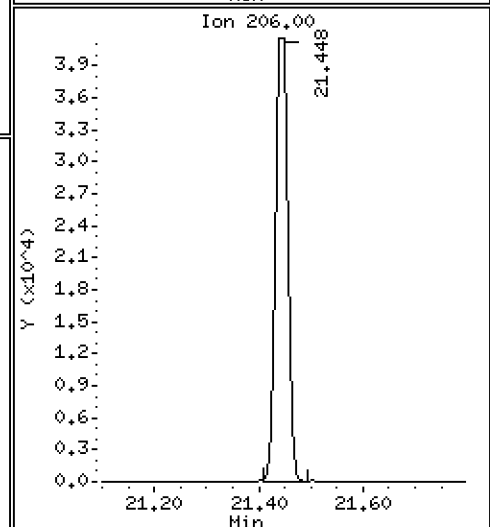
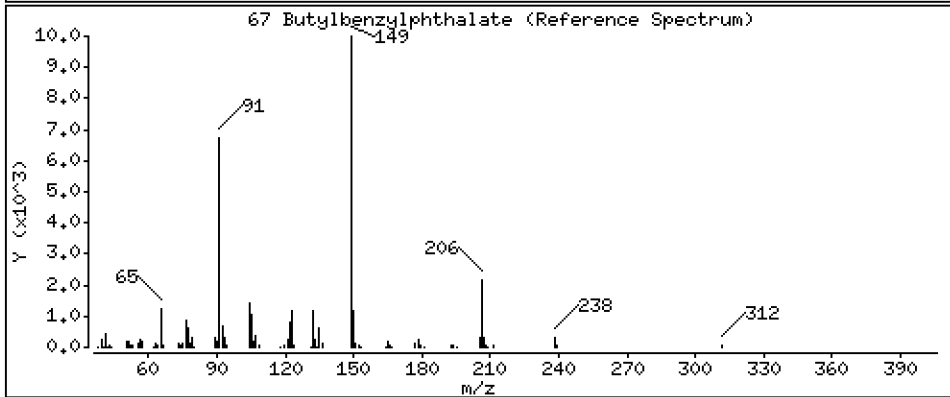
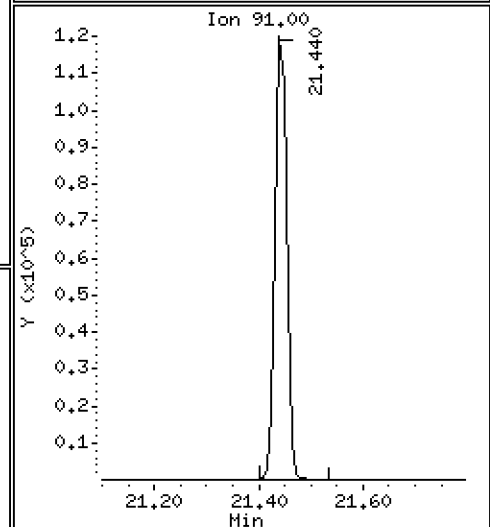
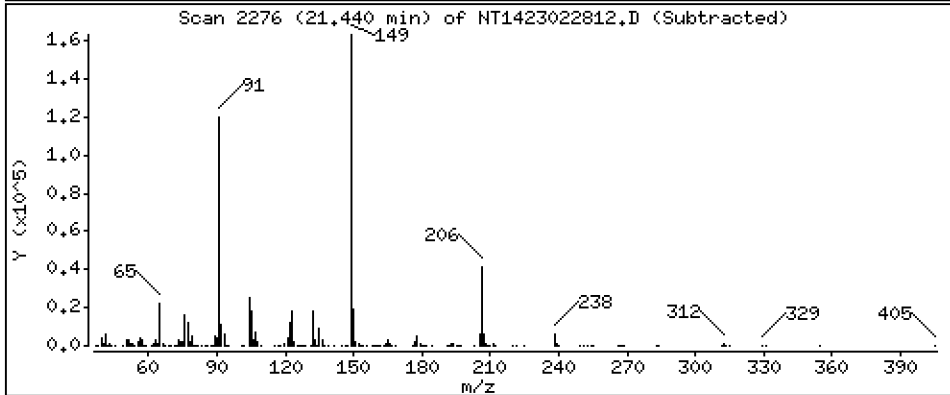
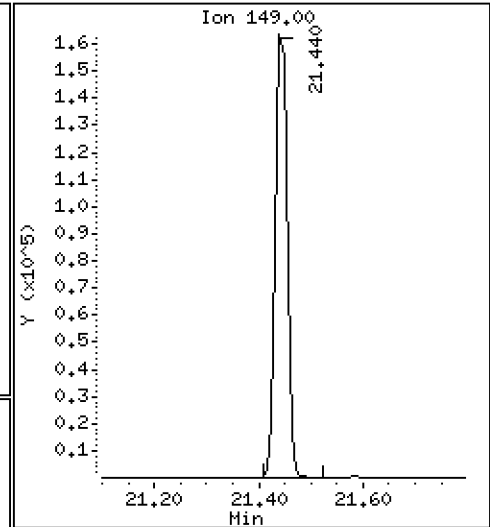
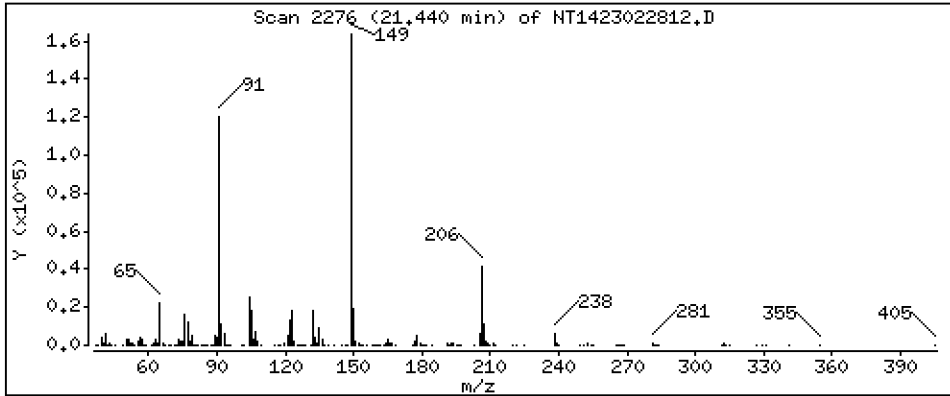
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 4.965 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

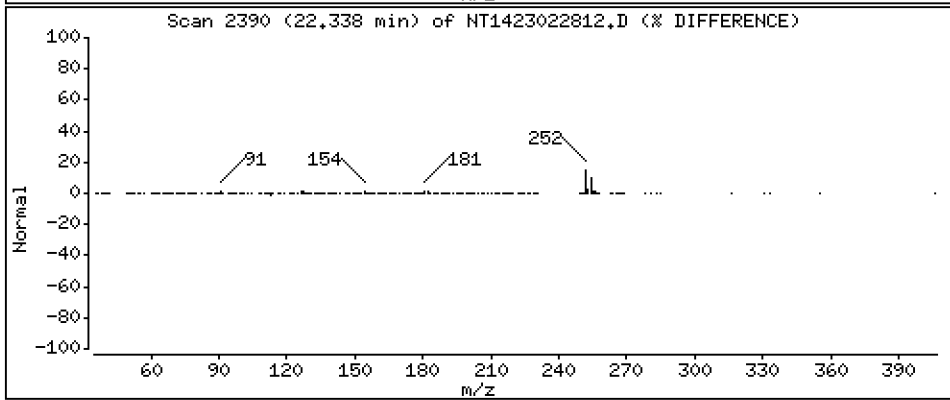
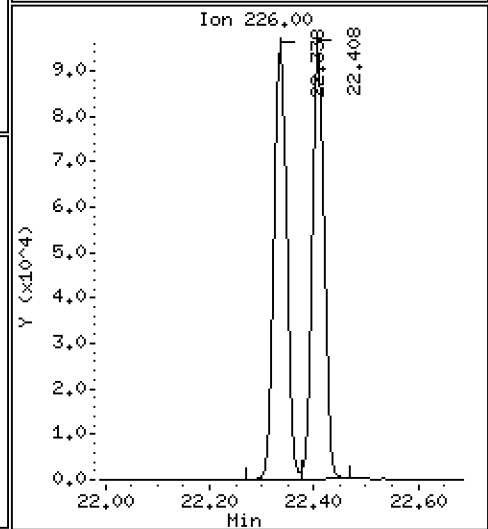
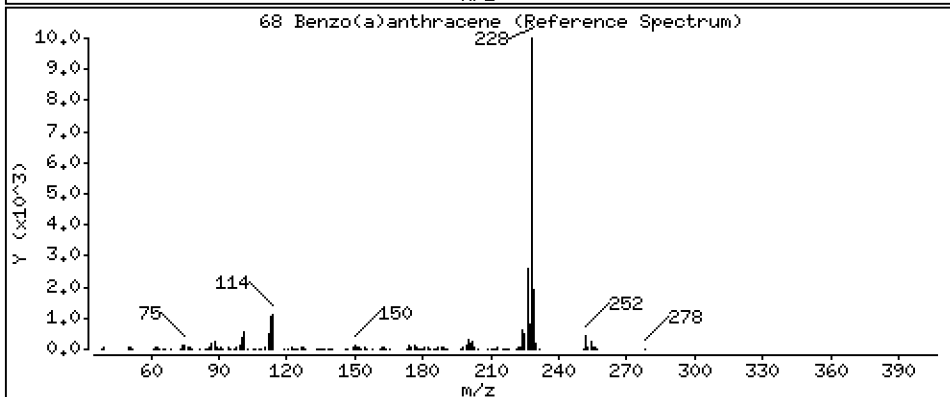
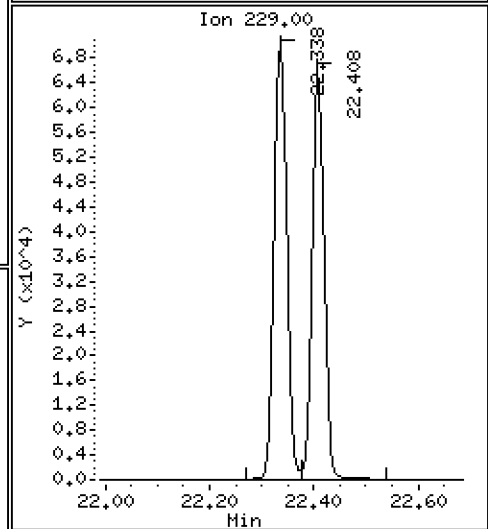
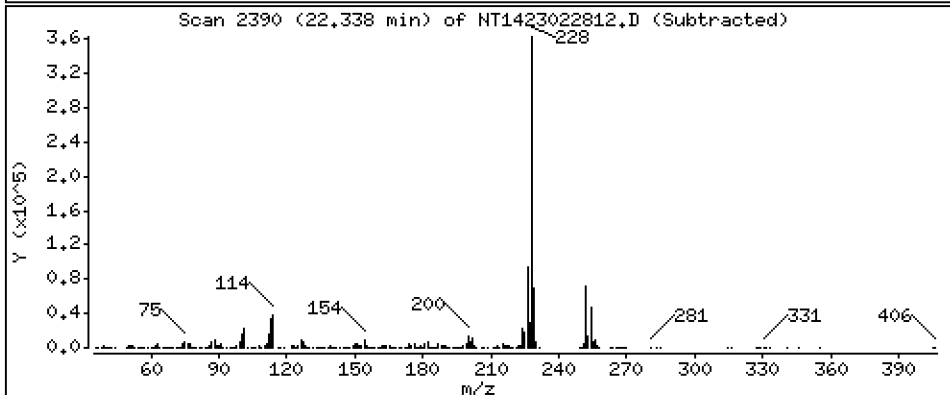
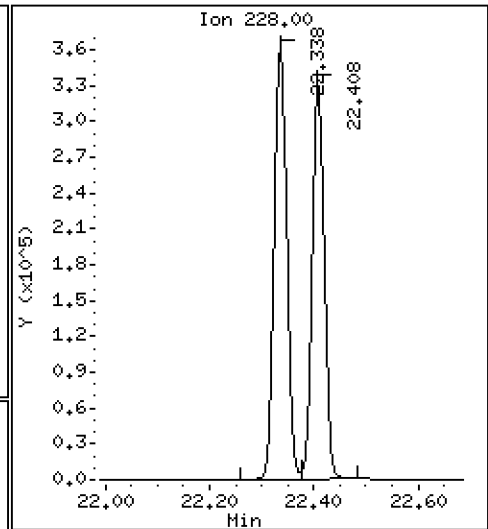
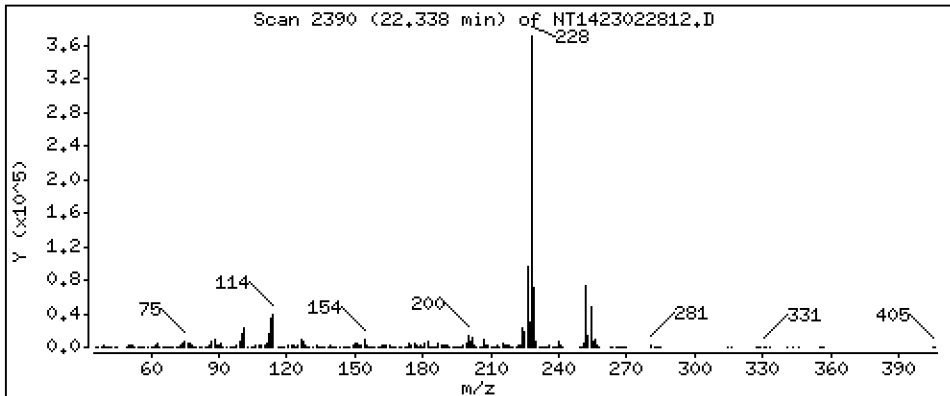
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,917 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

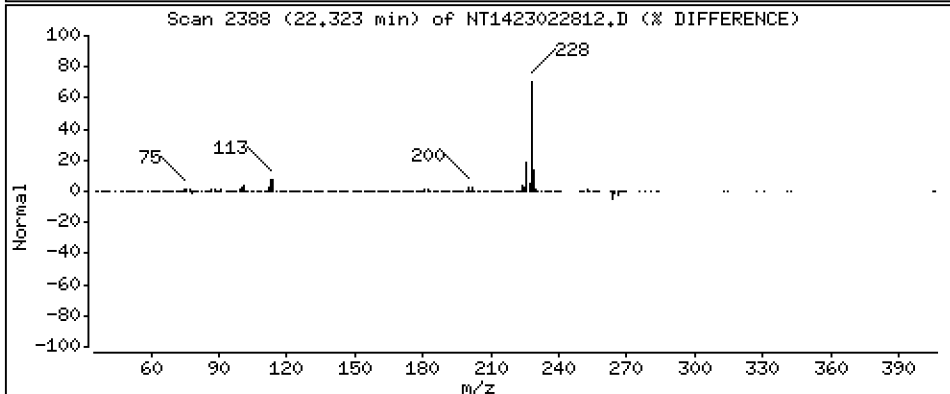
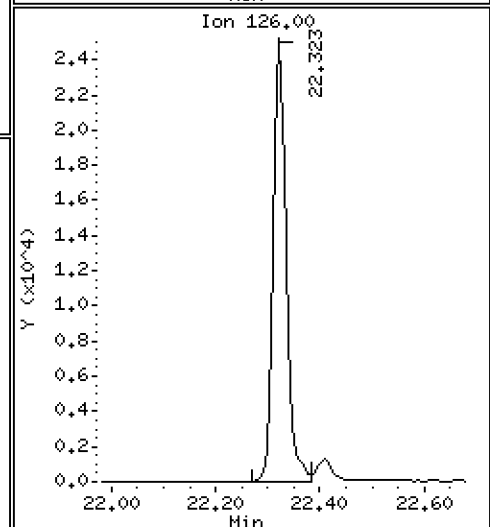
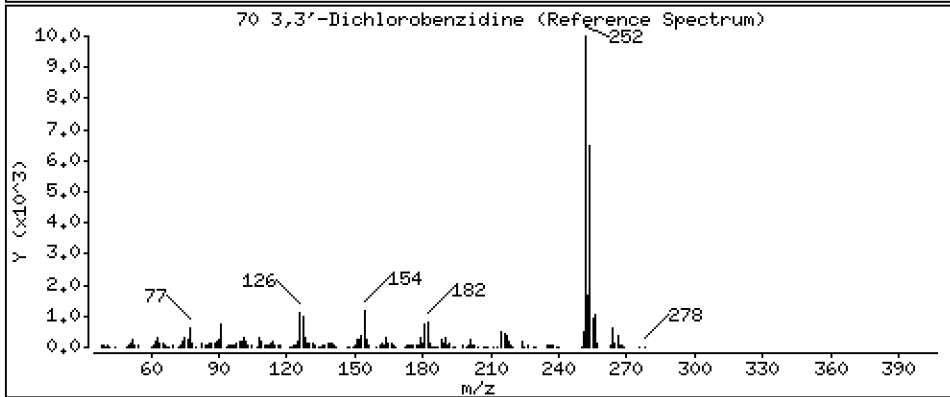
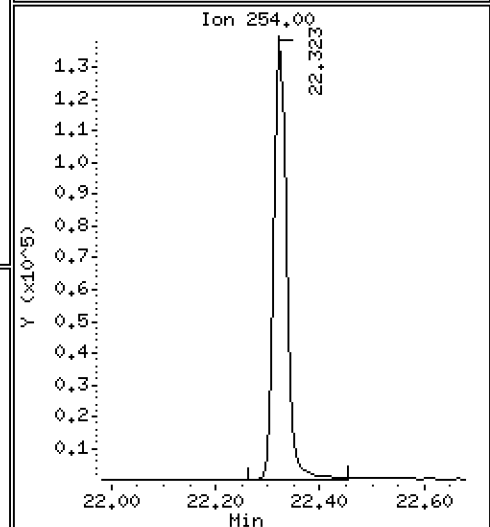
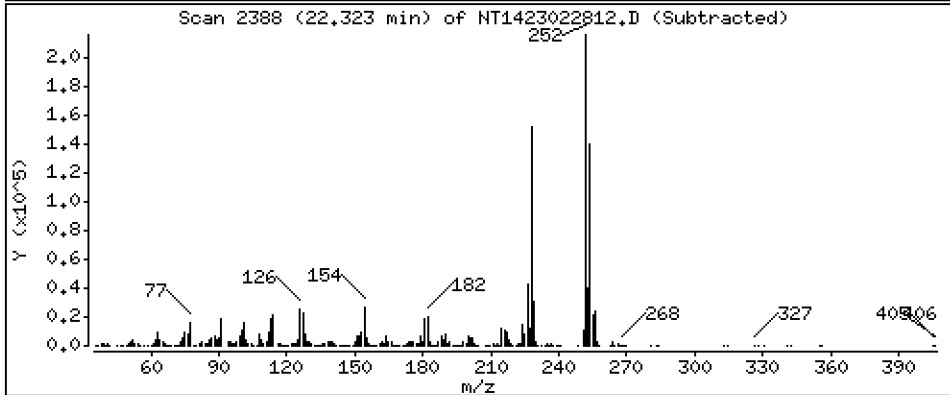
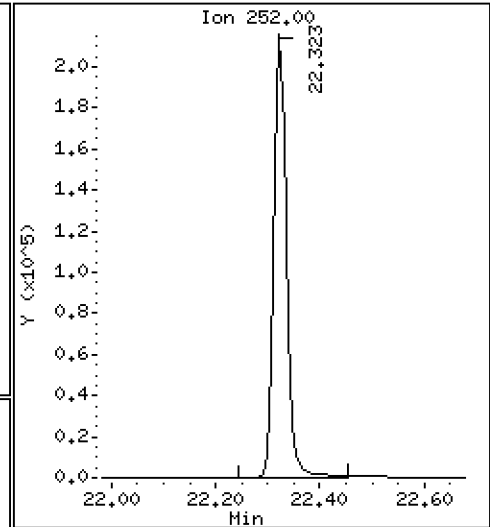
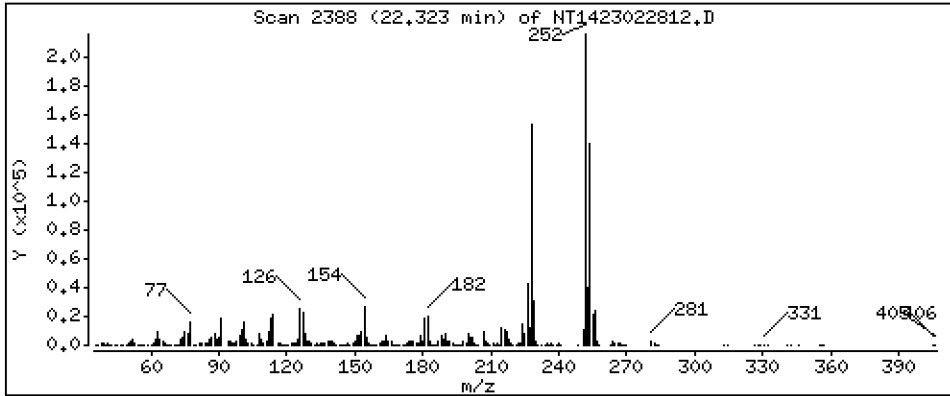
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 10,29 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

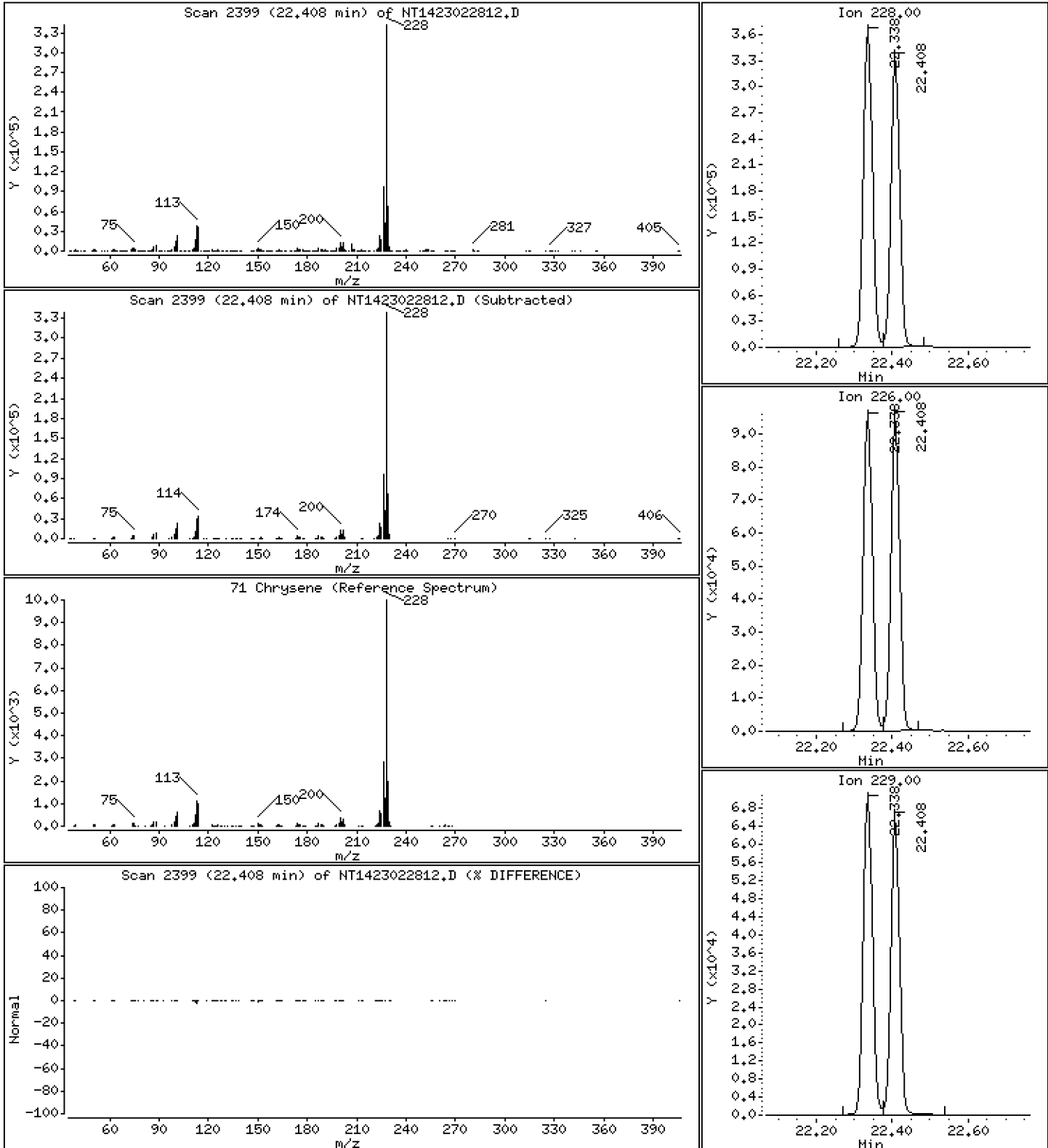
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,556 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

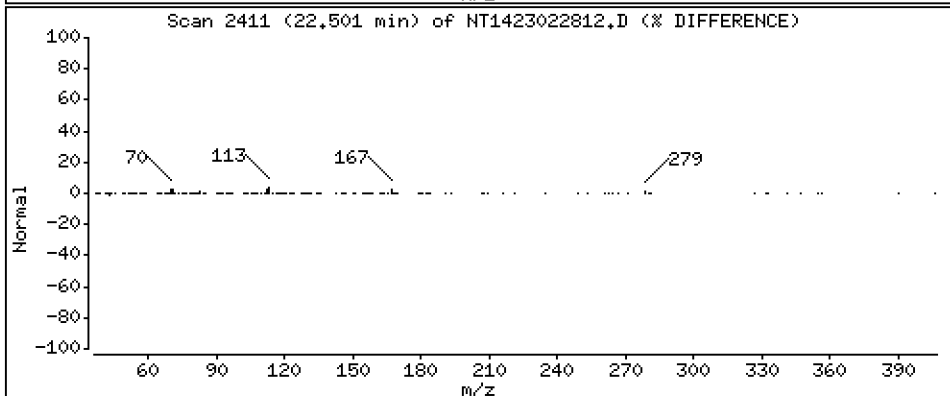
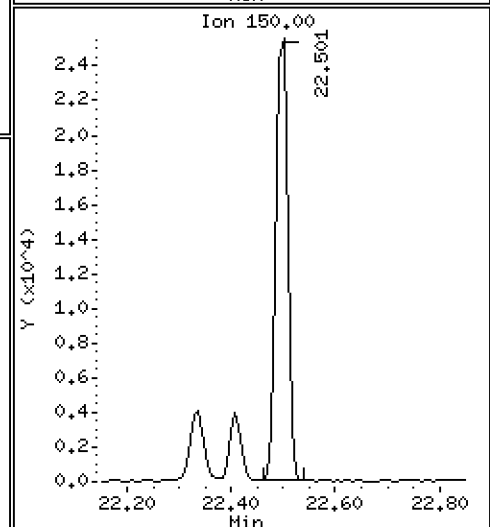
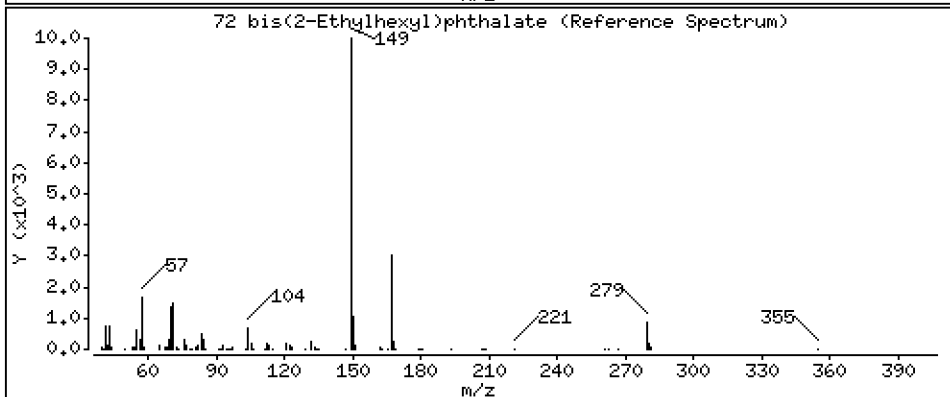
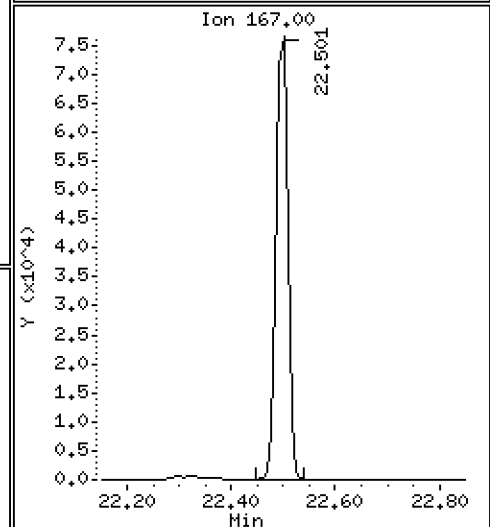
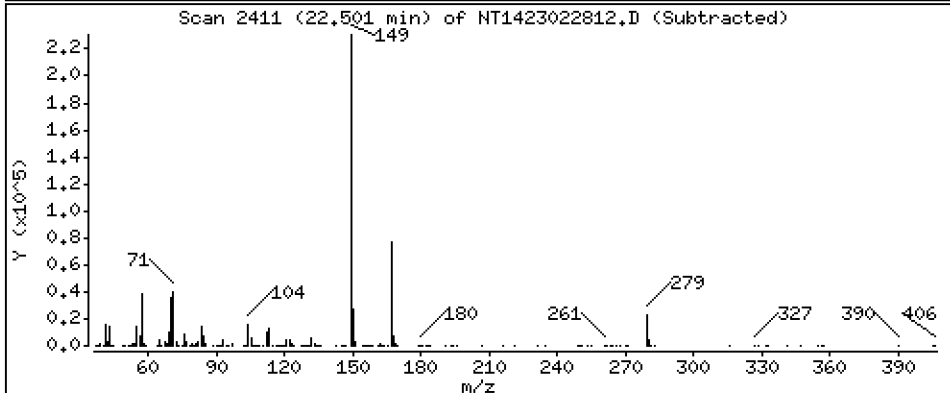
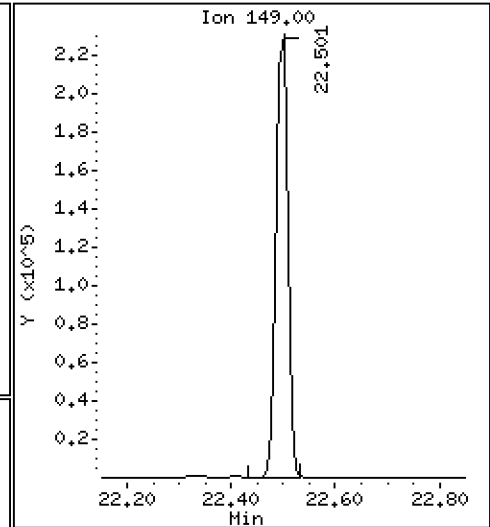
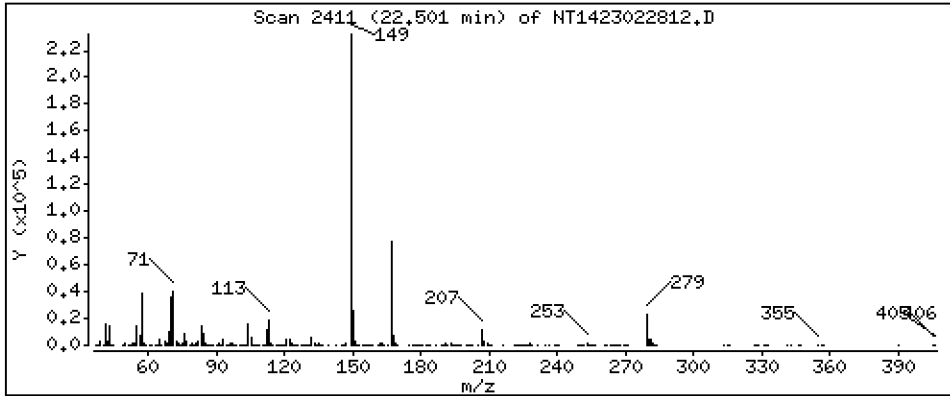
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,277 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

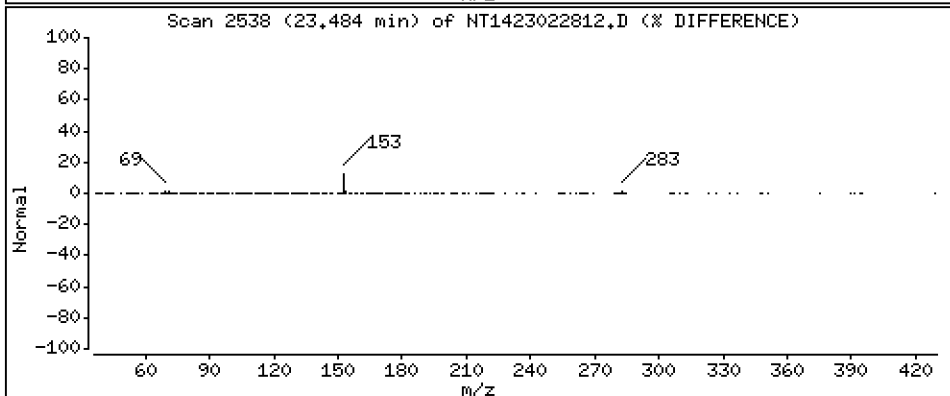
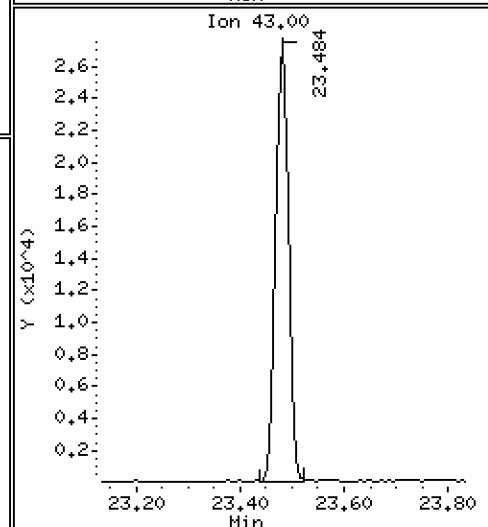
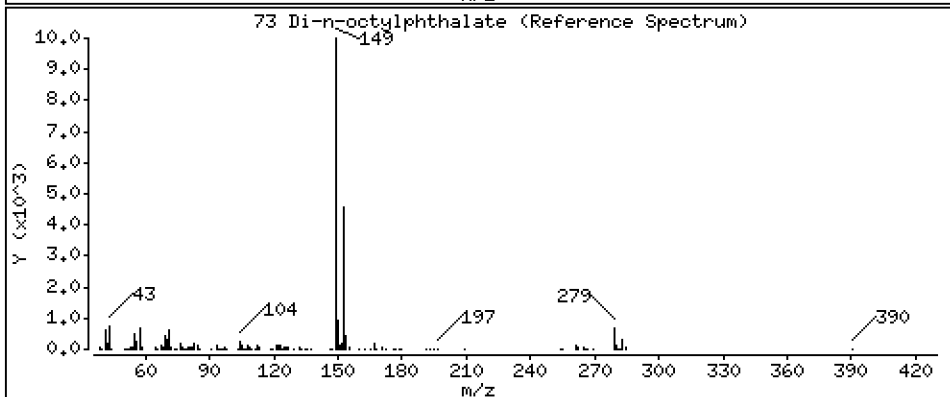
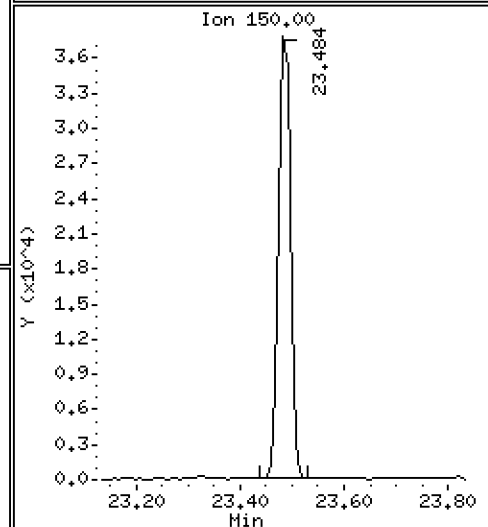
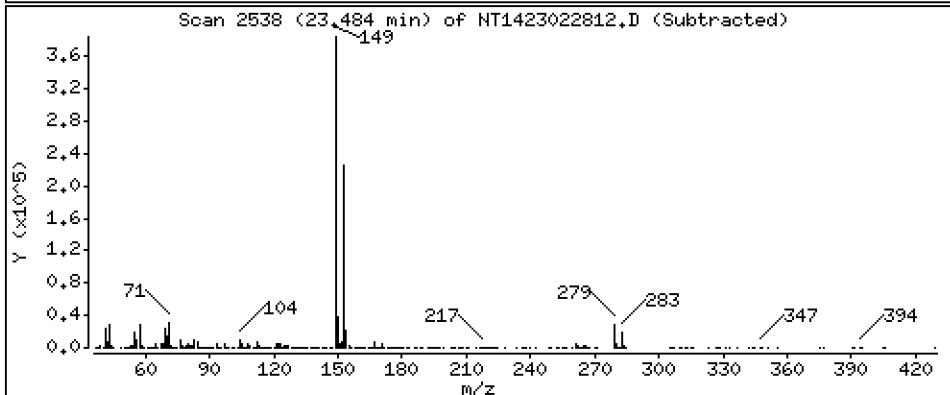
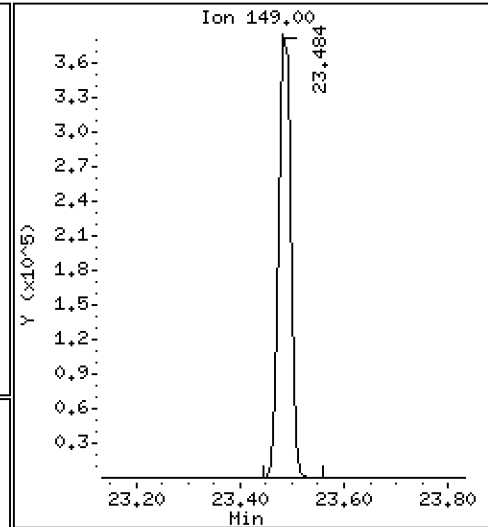
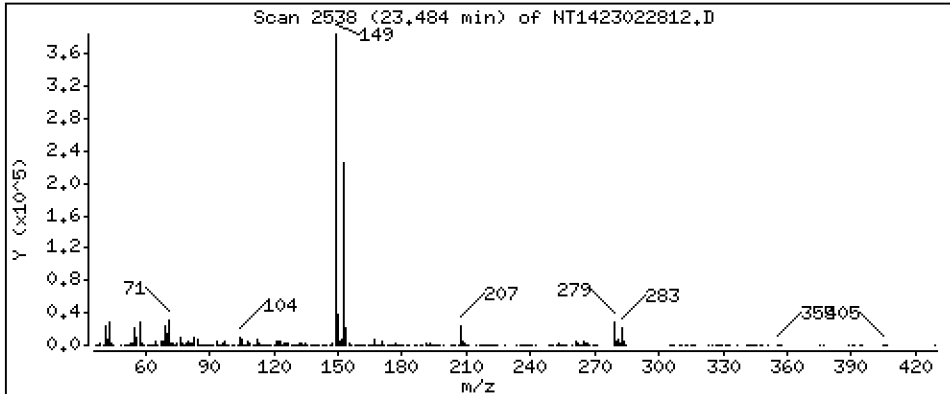
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,183 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

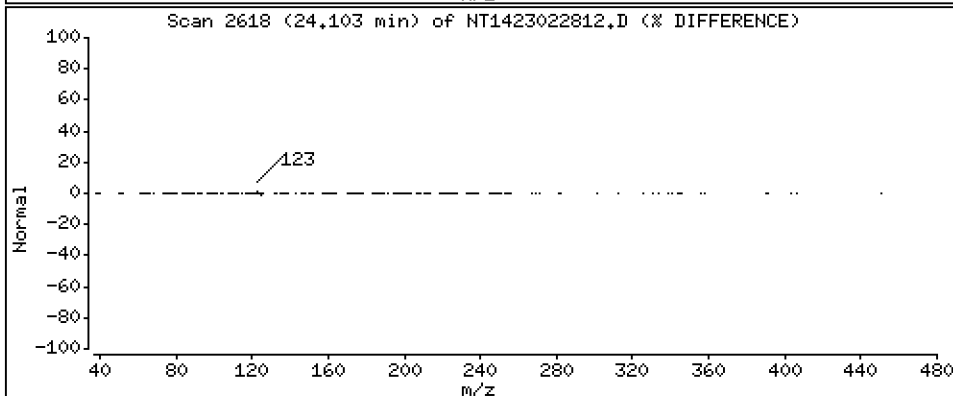
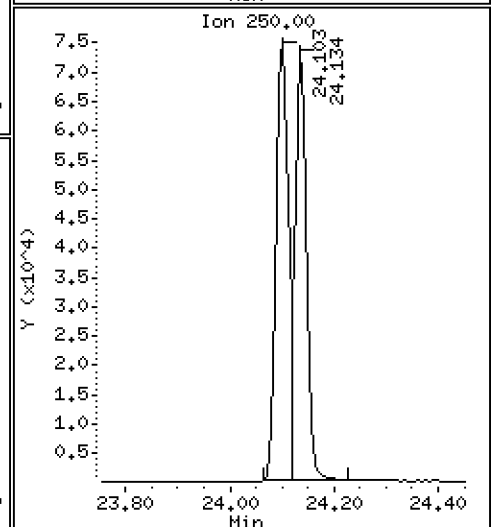
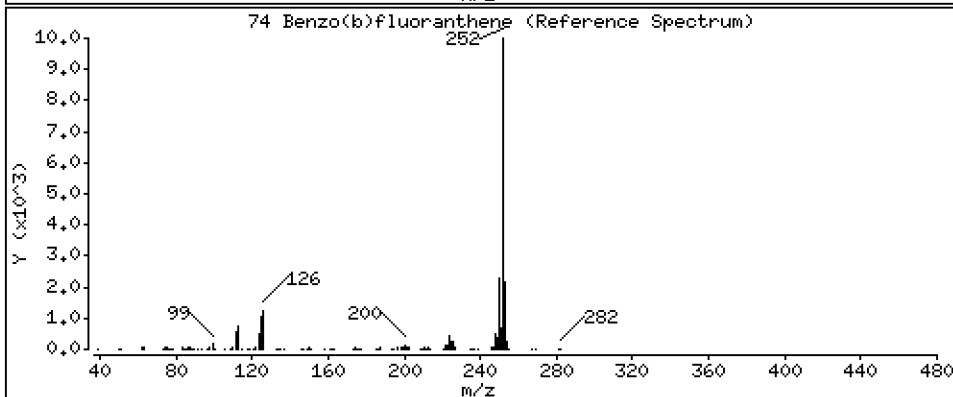
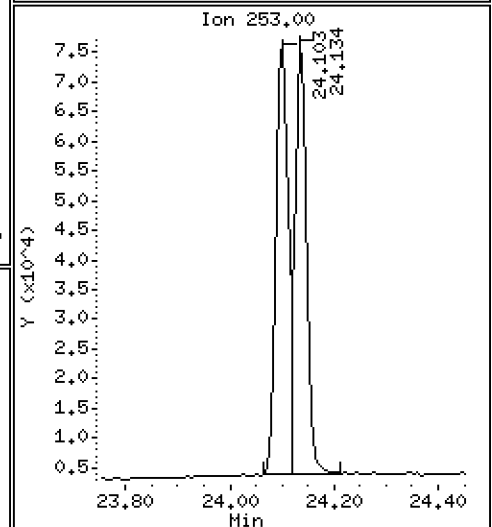
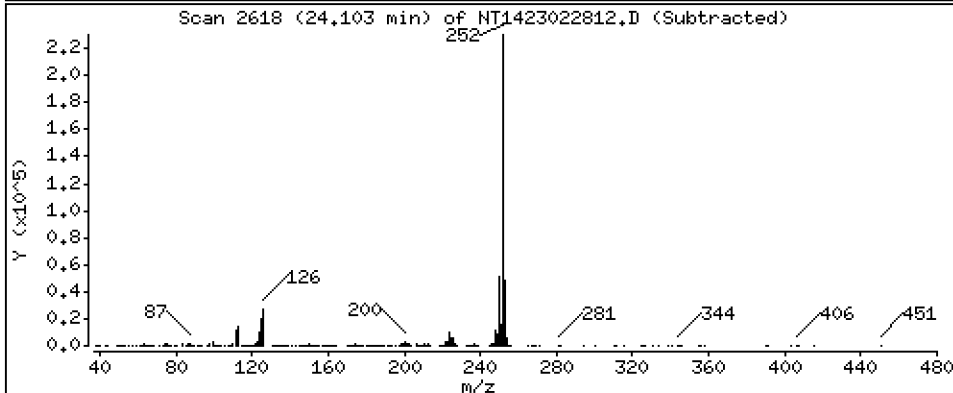
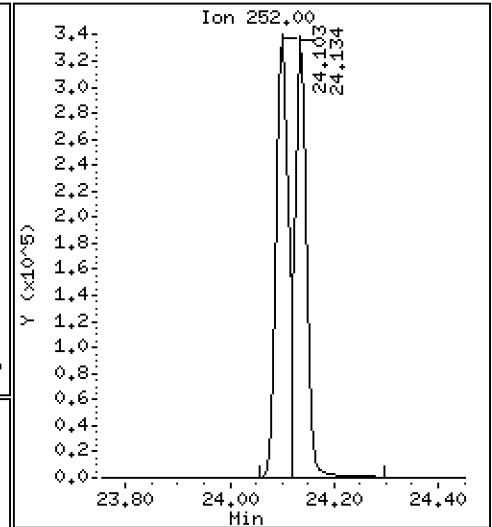
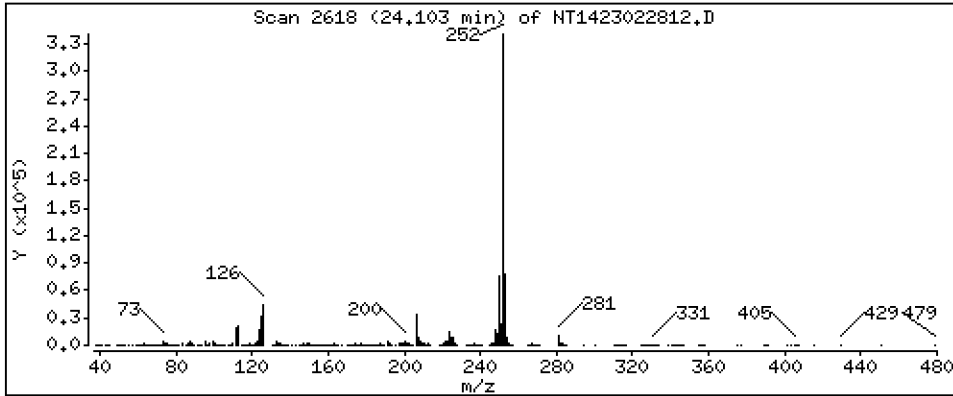
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,872 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

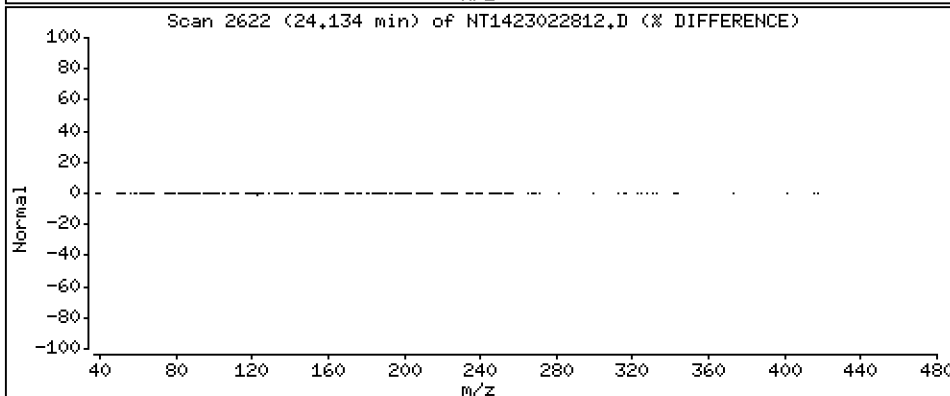
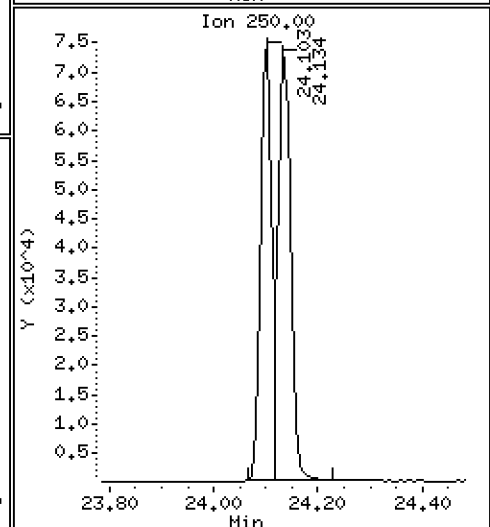
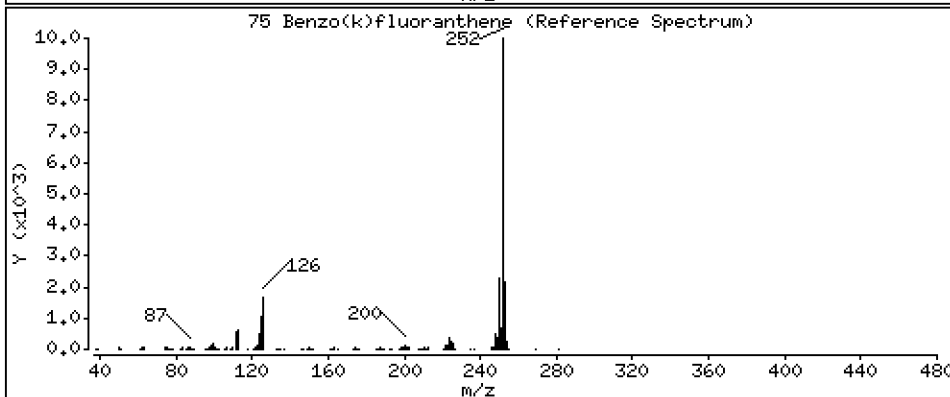
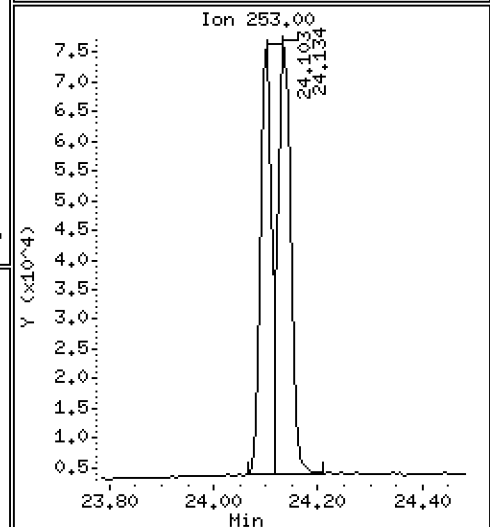
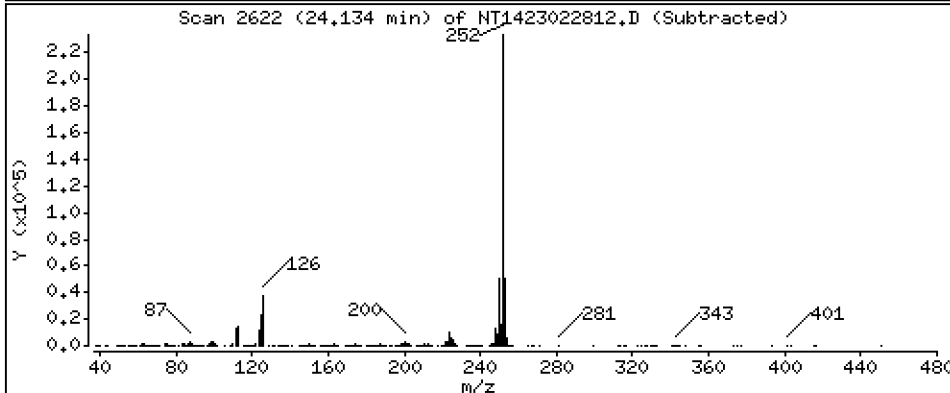
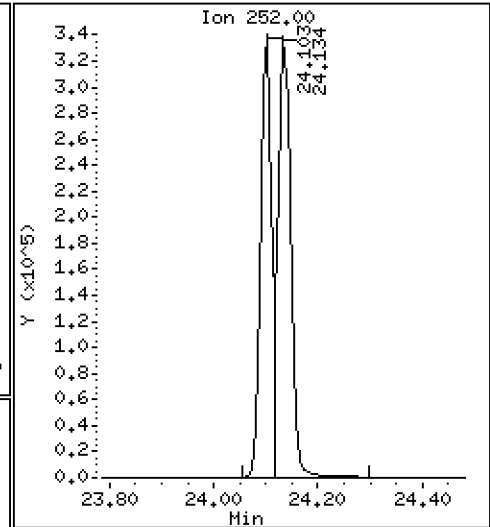
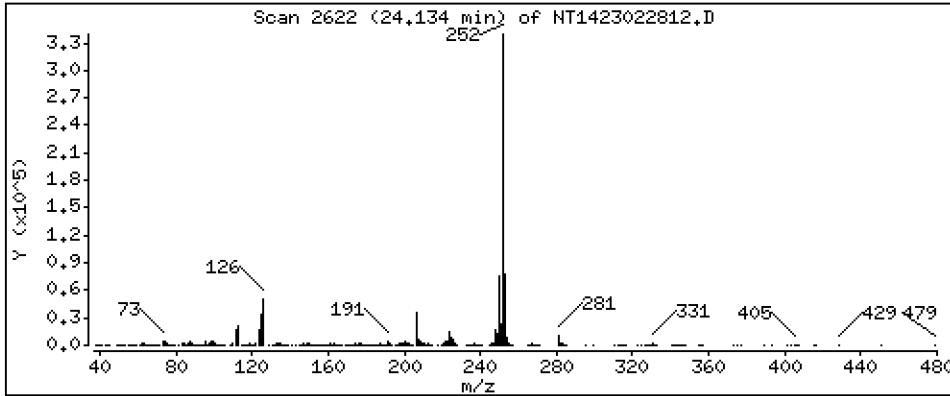
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,663 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

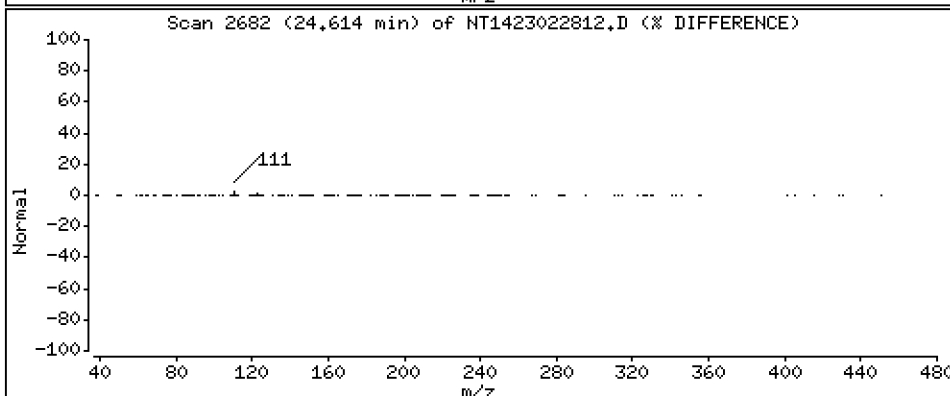
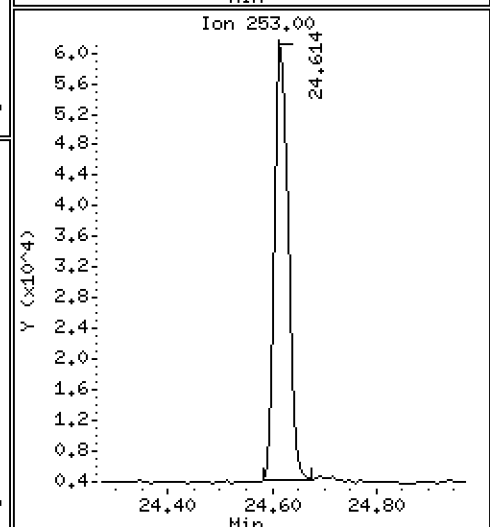
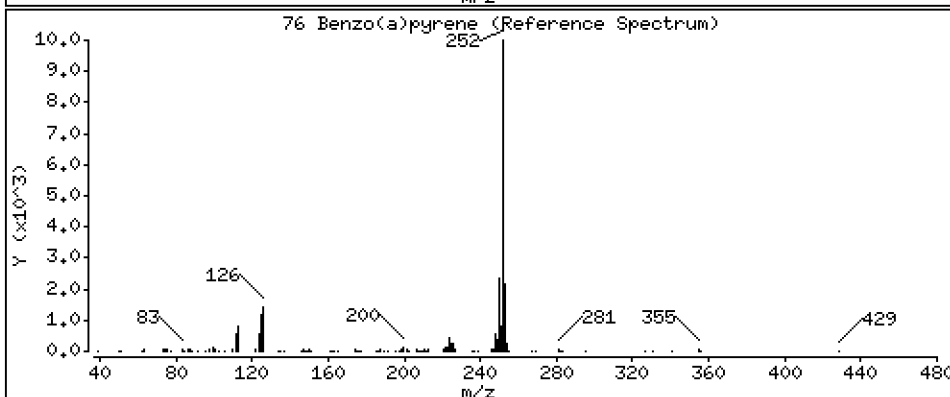
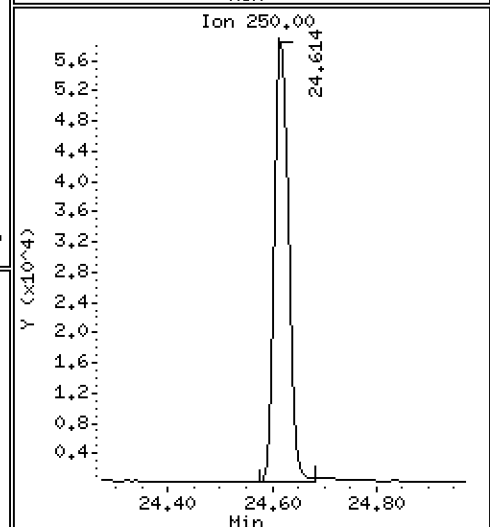
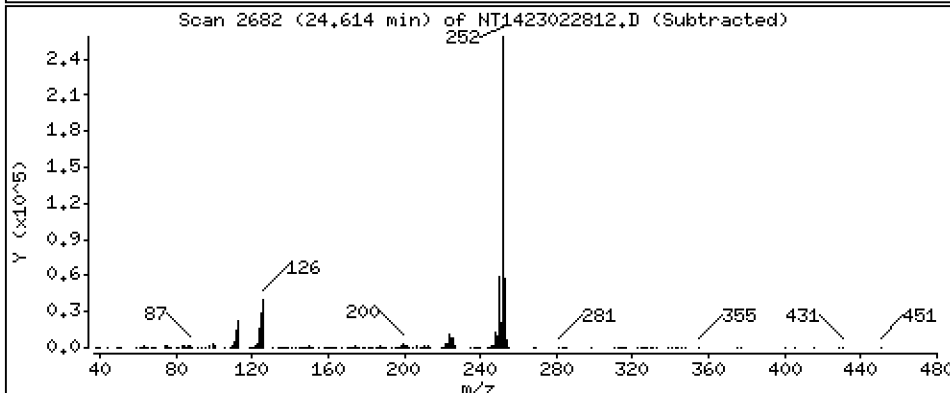
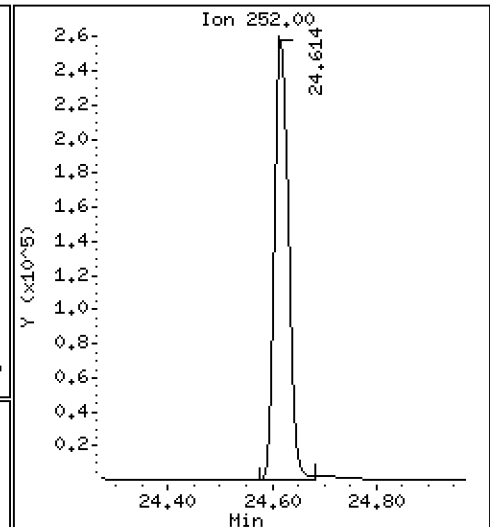
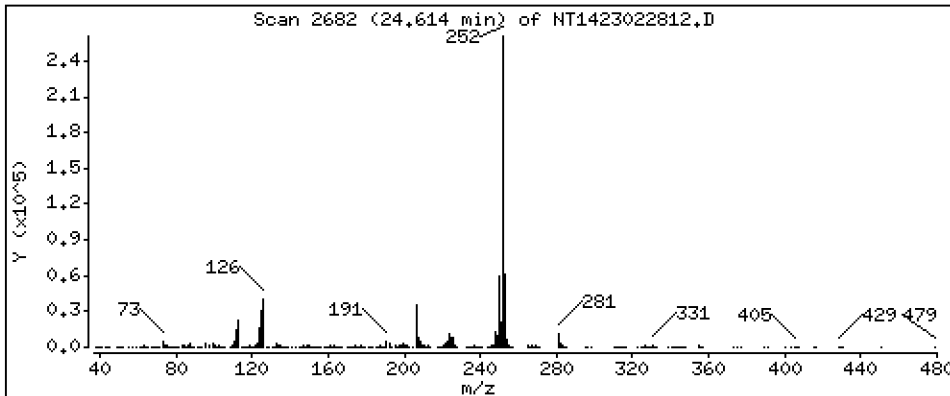
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,886 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

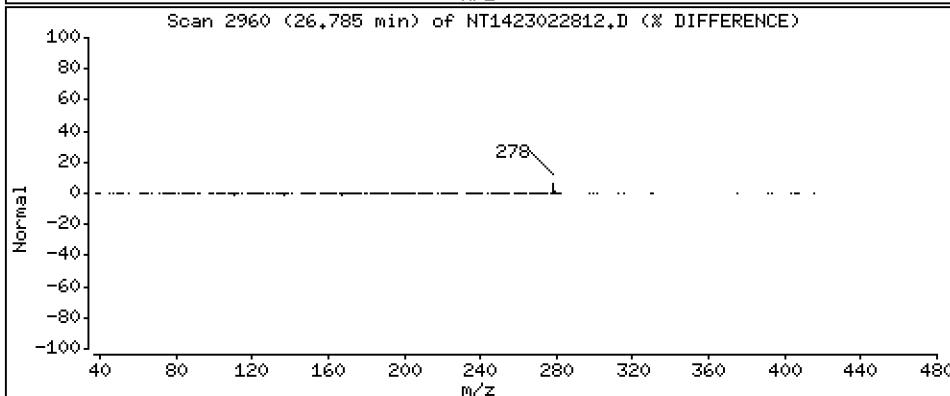
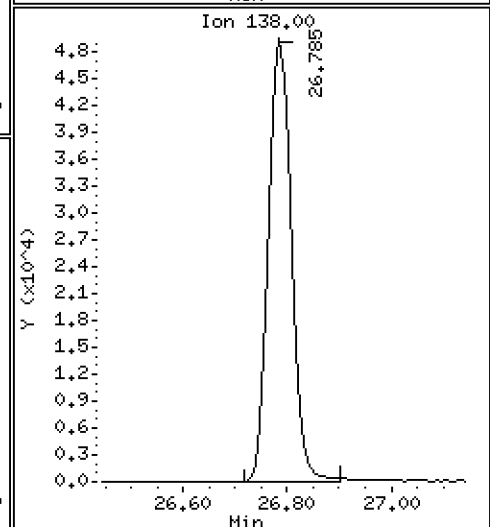
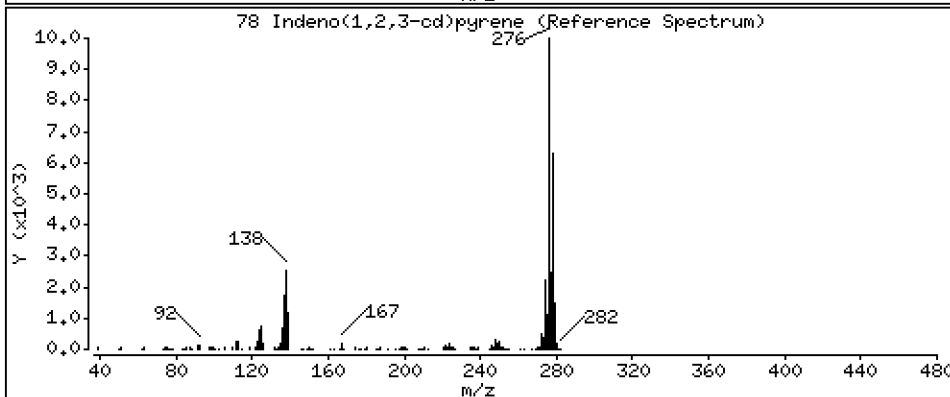
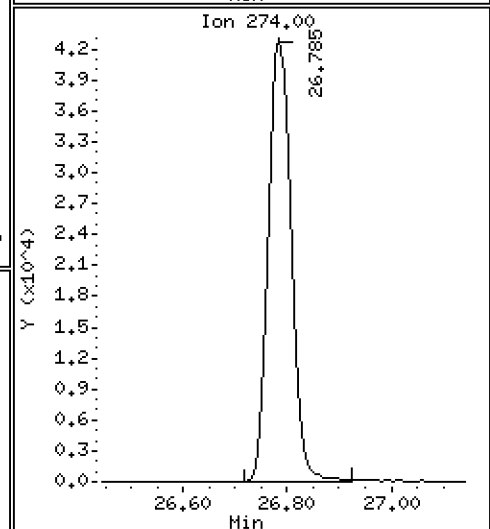
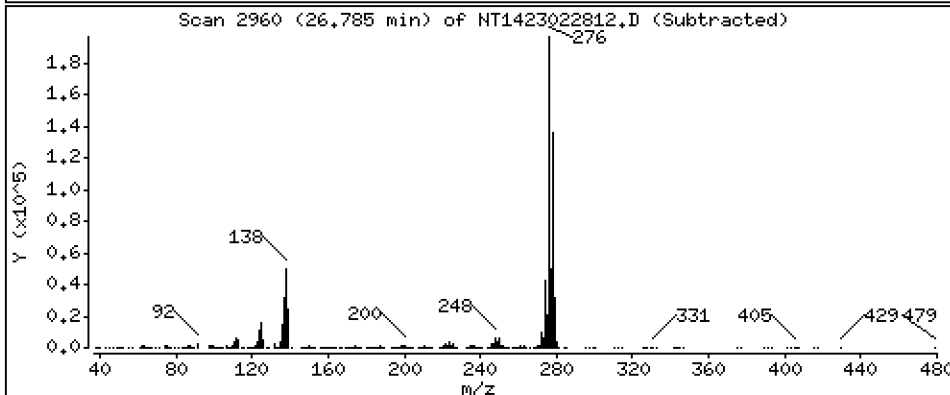
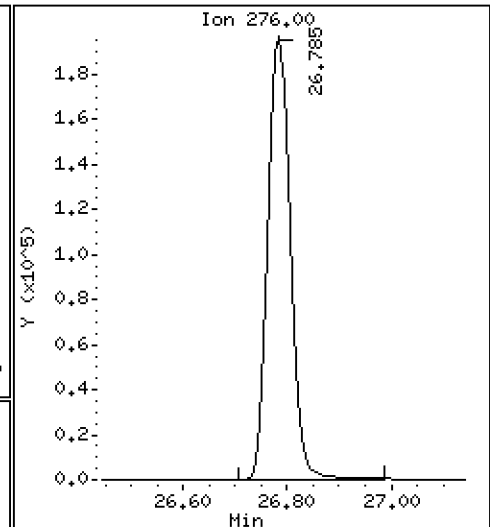
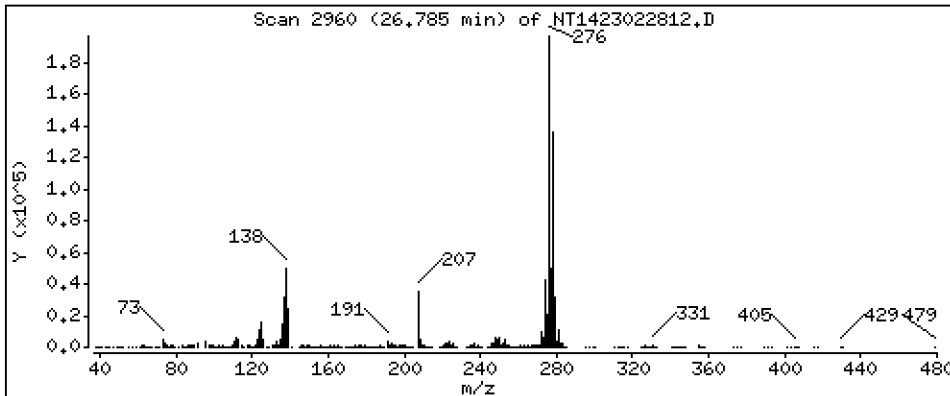
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 4,892 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

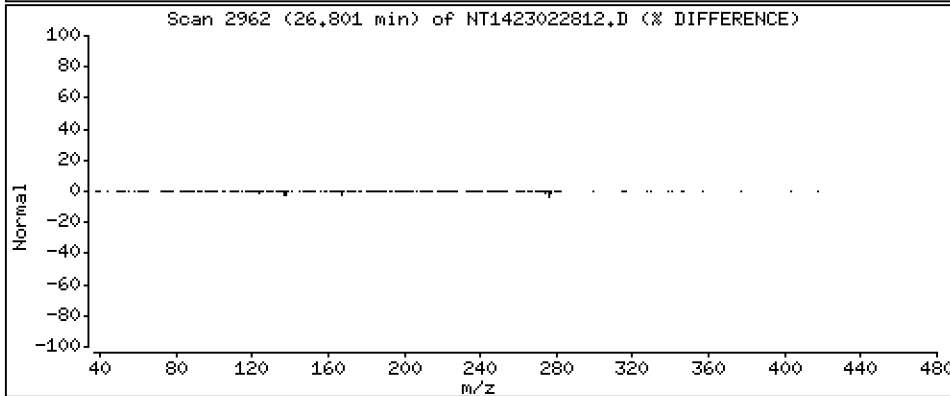
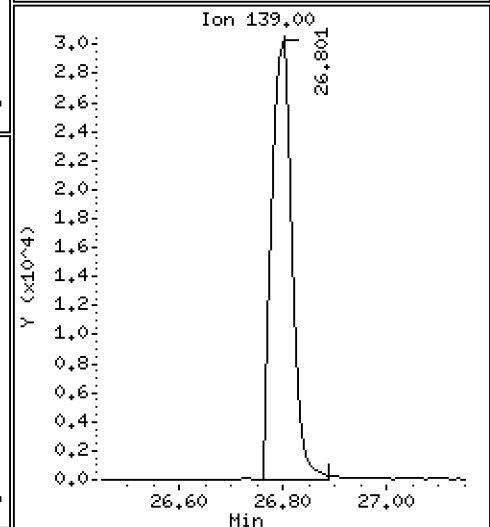
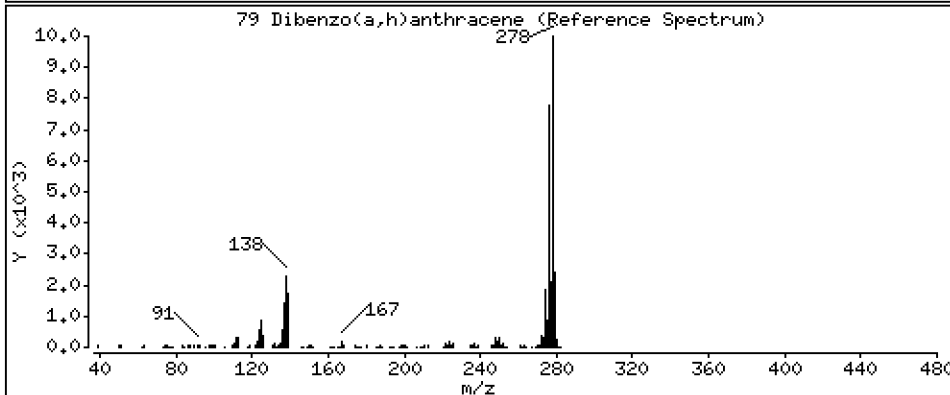
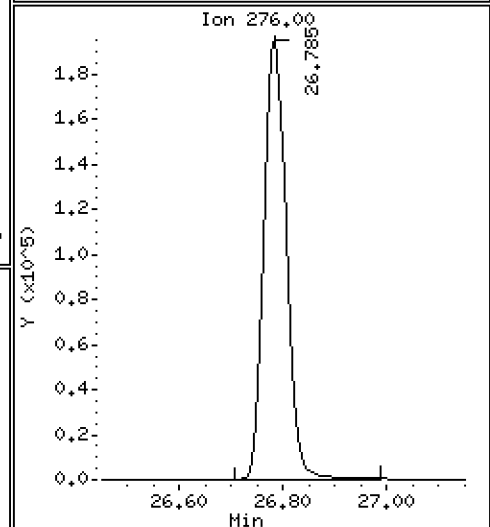
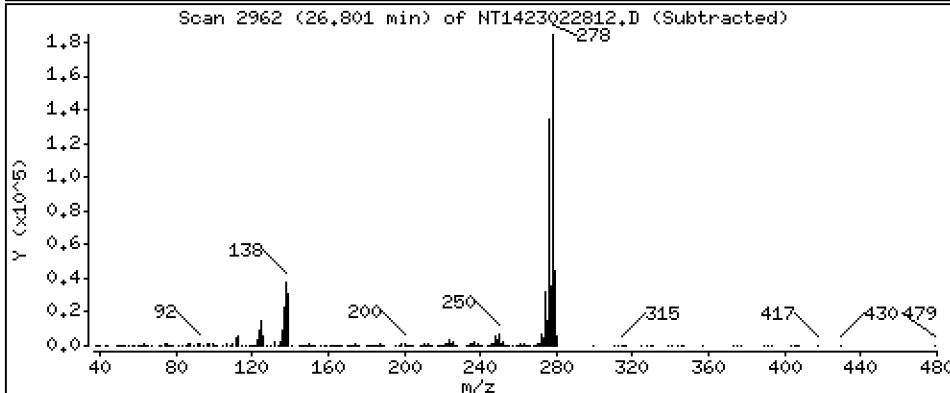
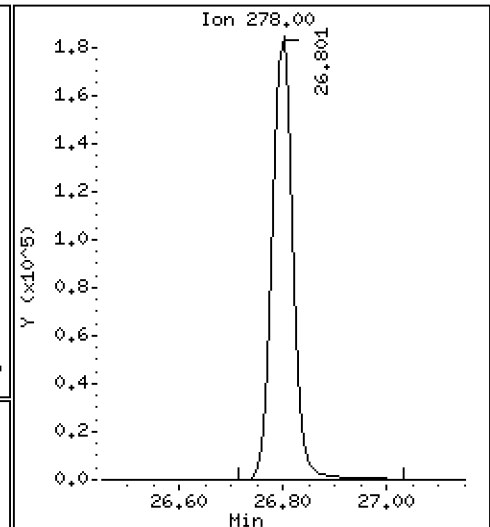
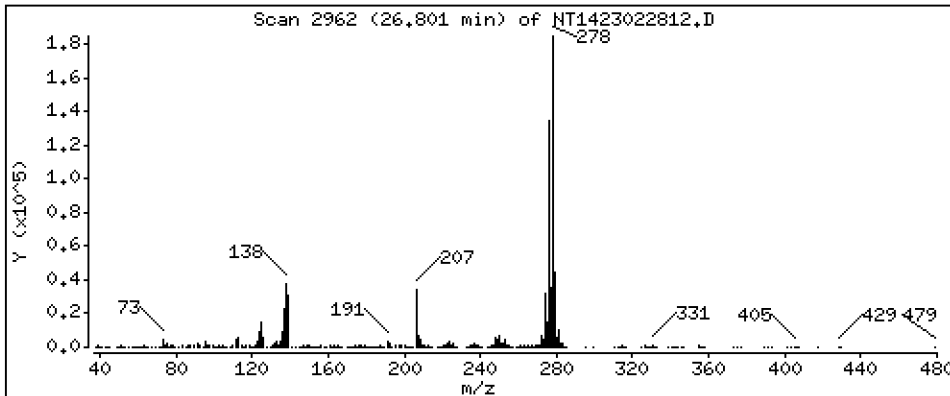
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,907 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

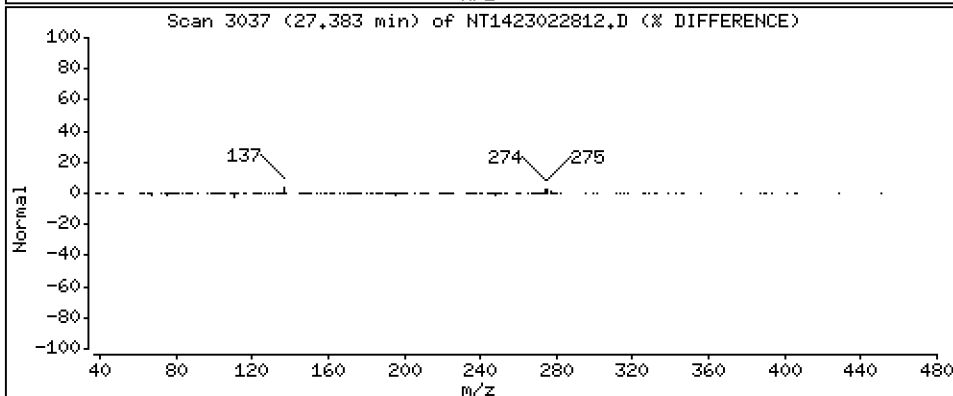
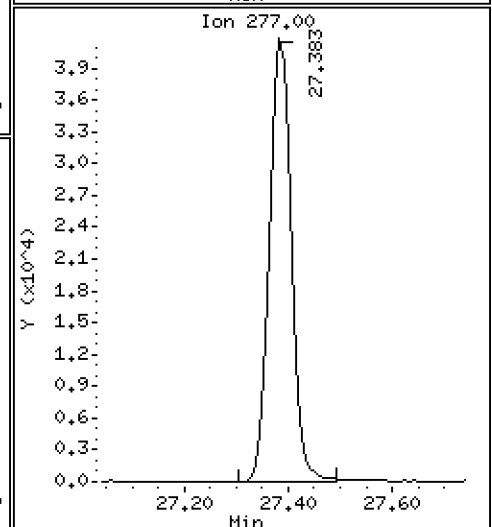
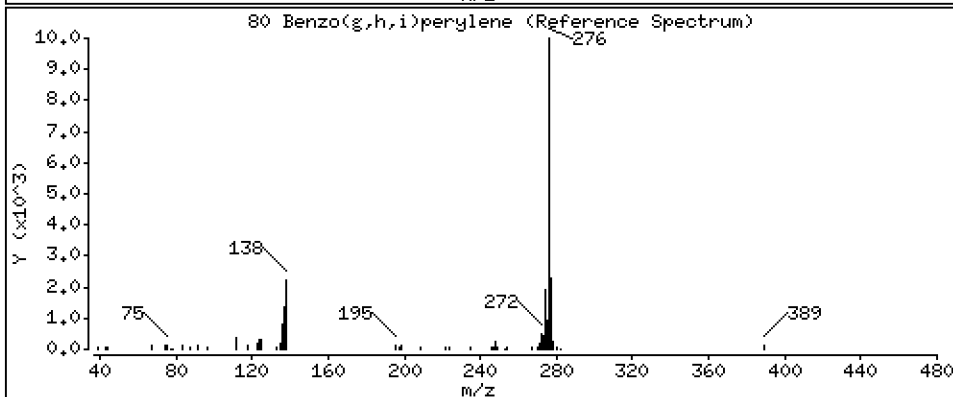
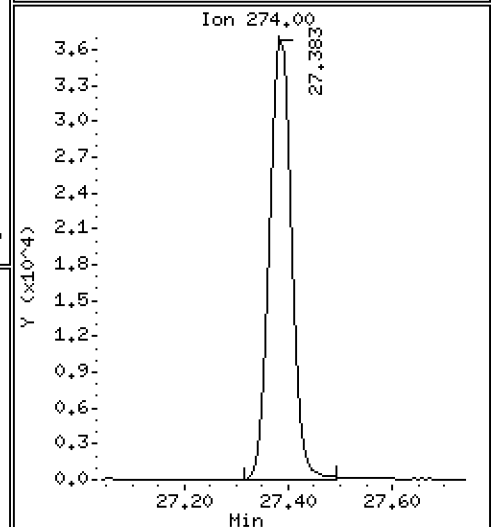
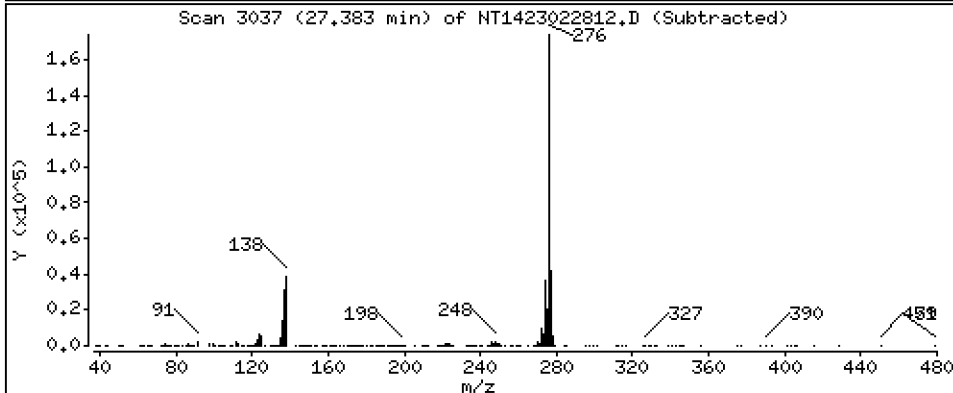
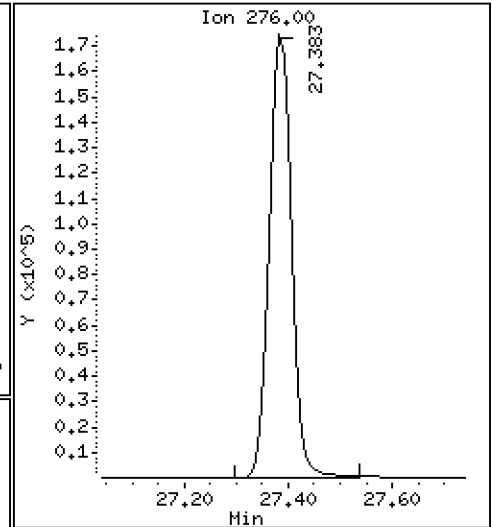
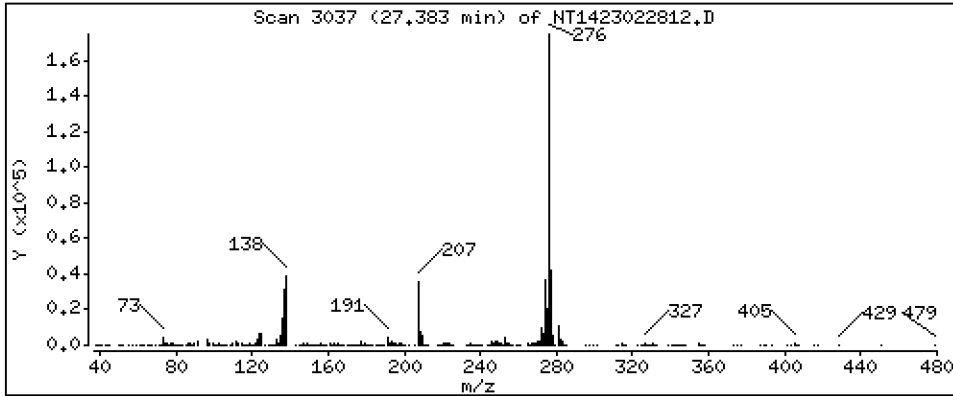
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,858 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

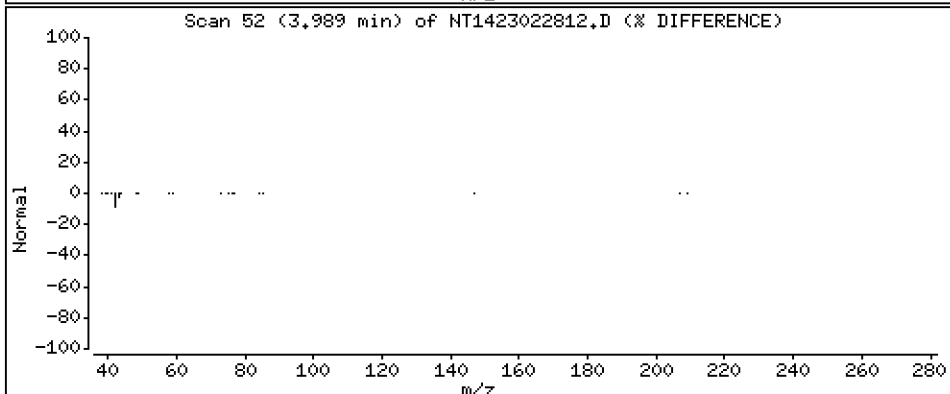
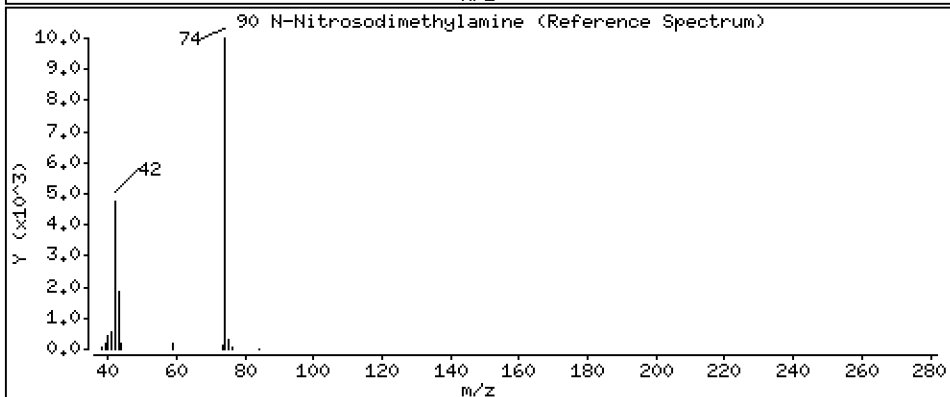
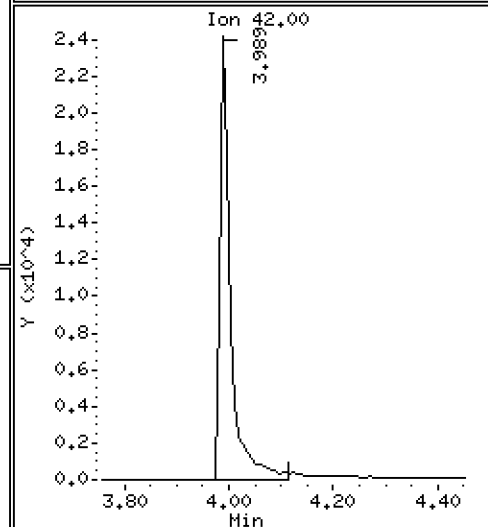
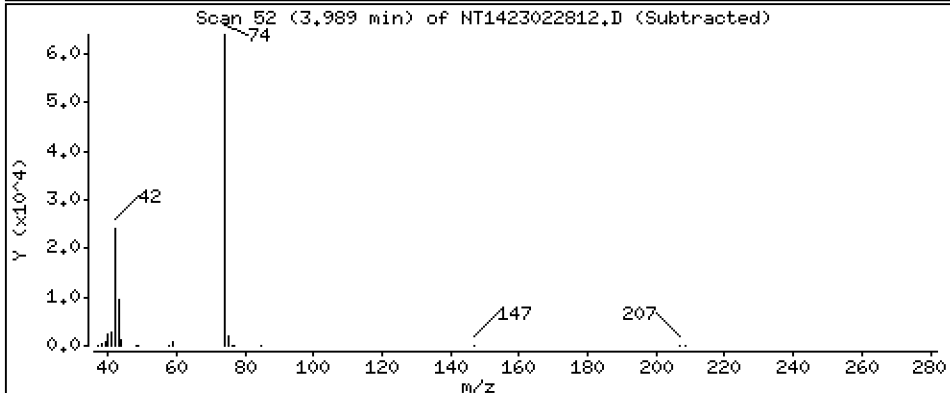
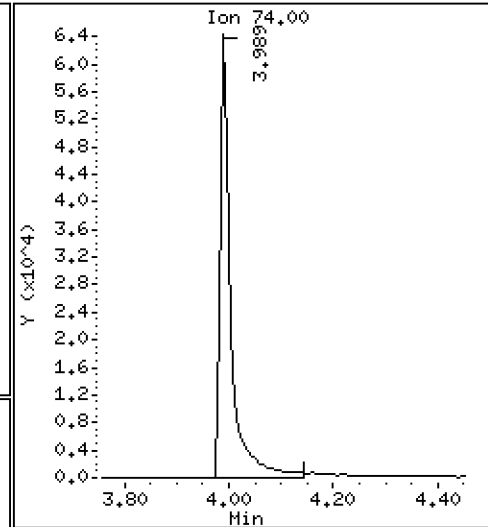
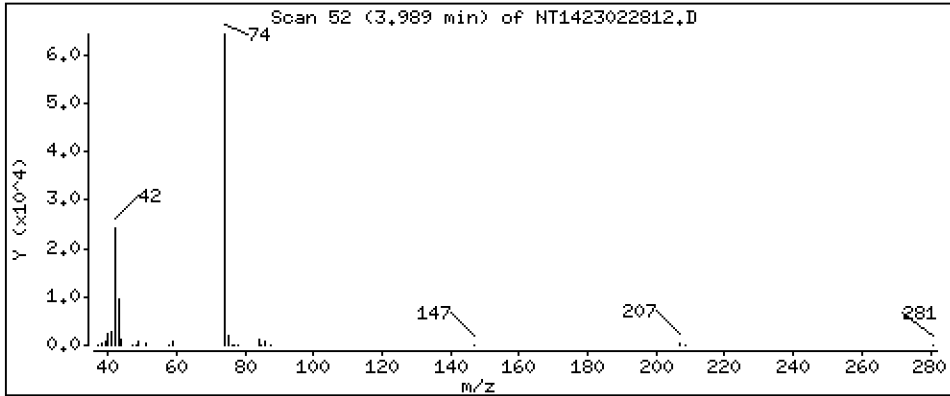
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 4,507 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

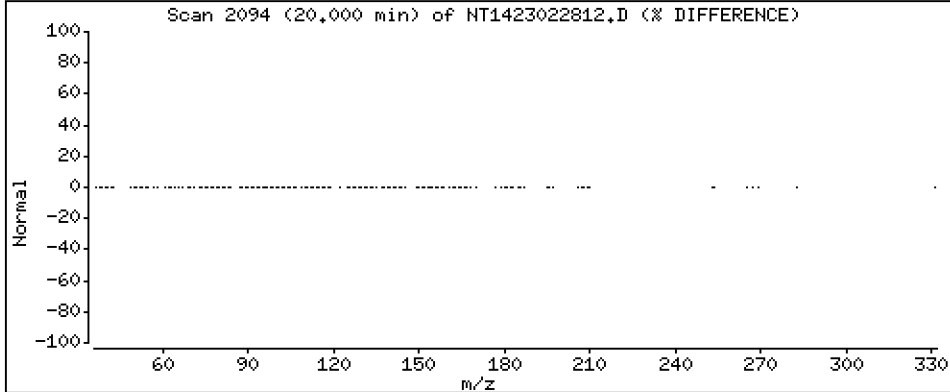
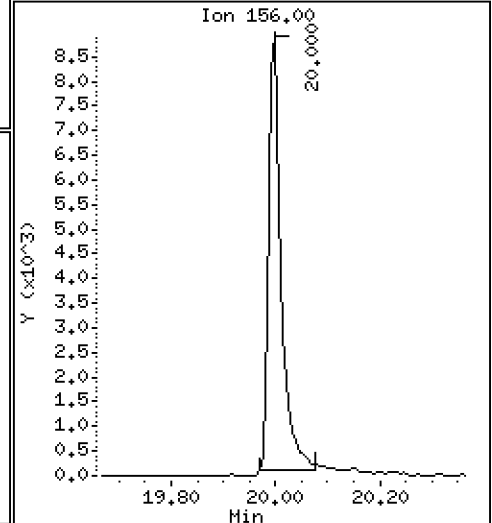
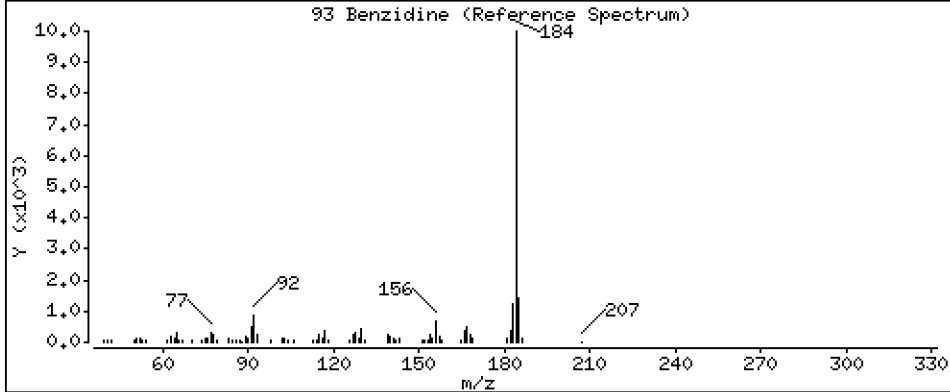
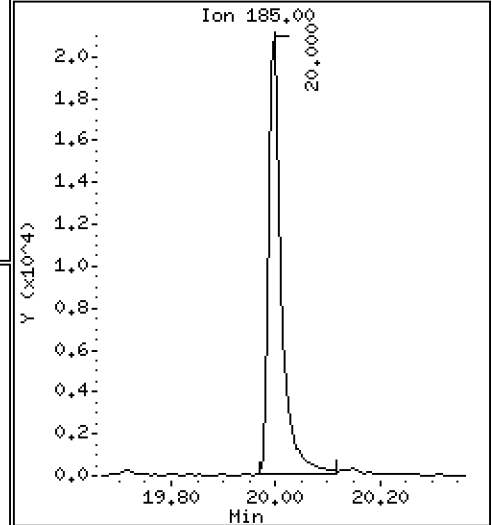
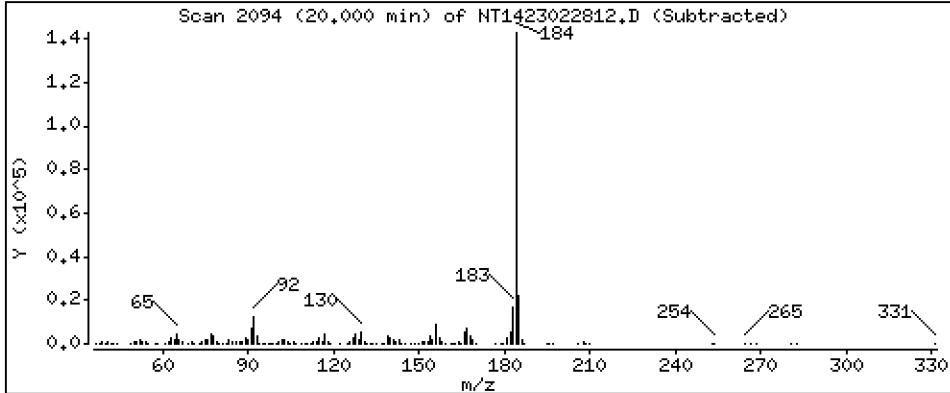
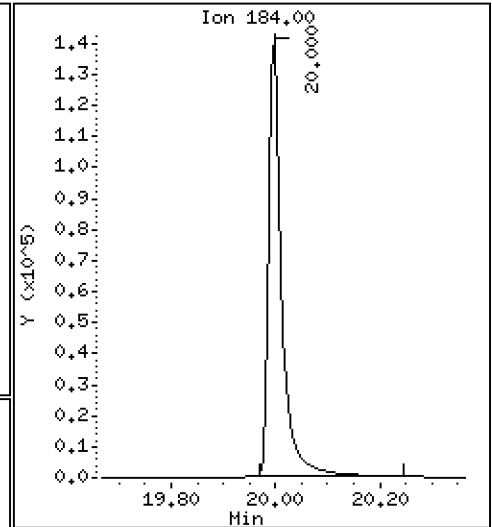
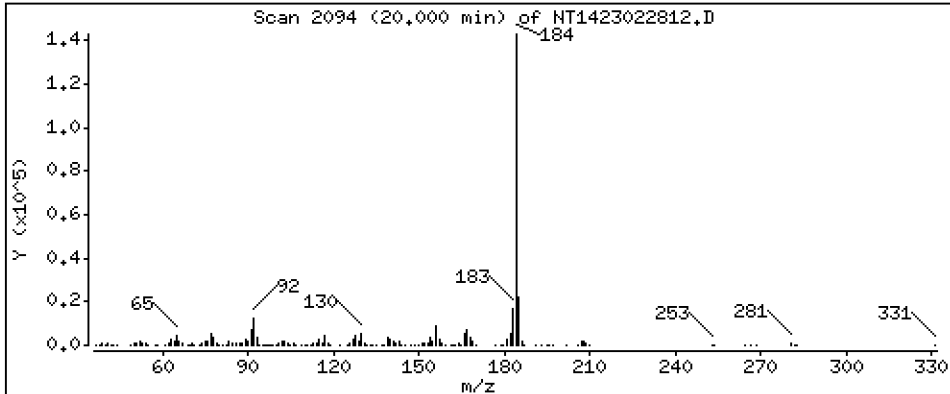
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 4,509 ug/mL





Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

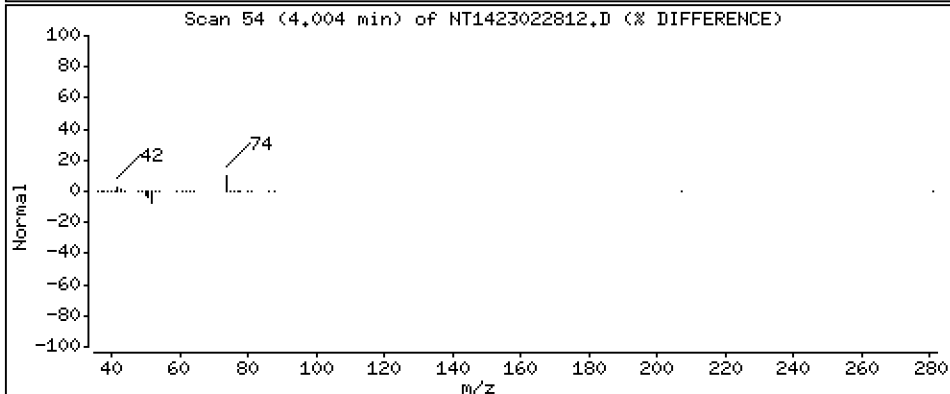
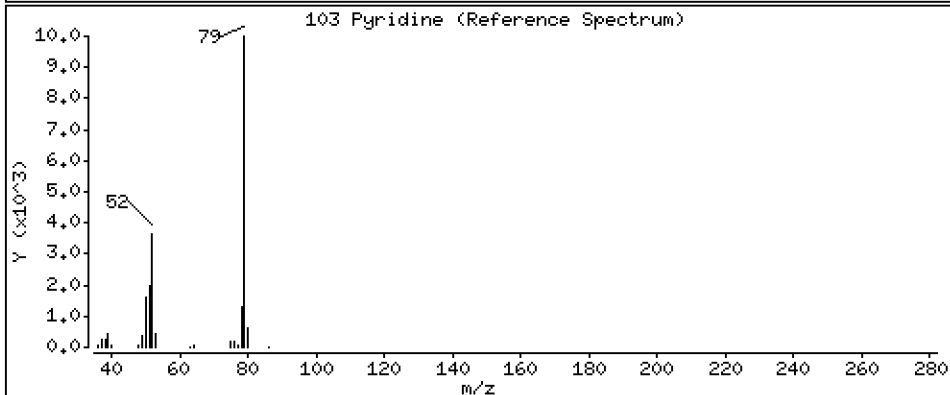
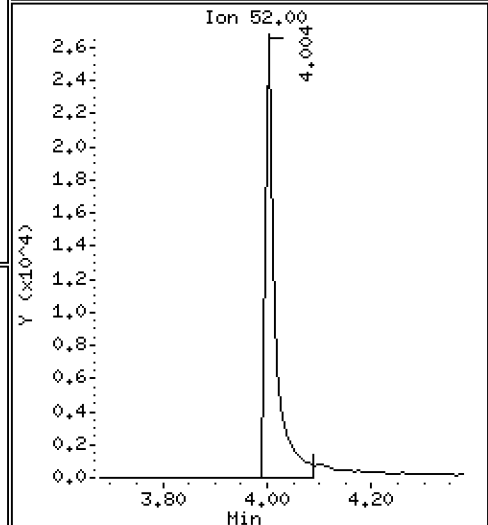
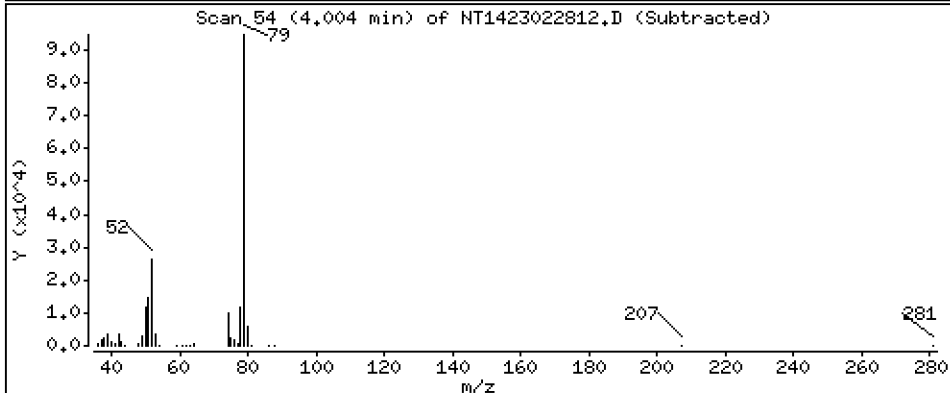
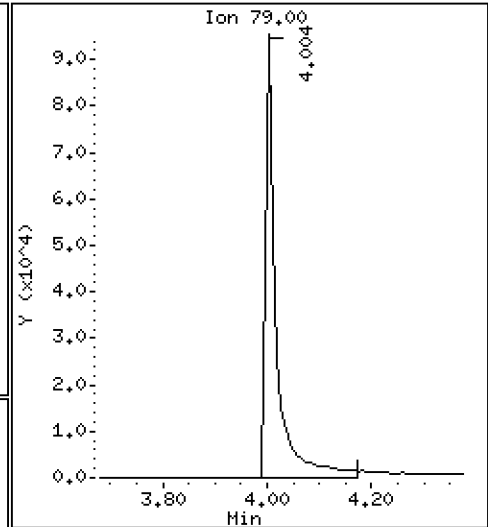
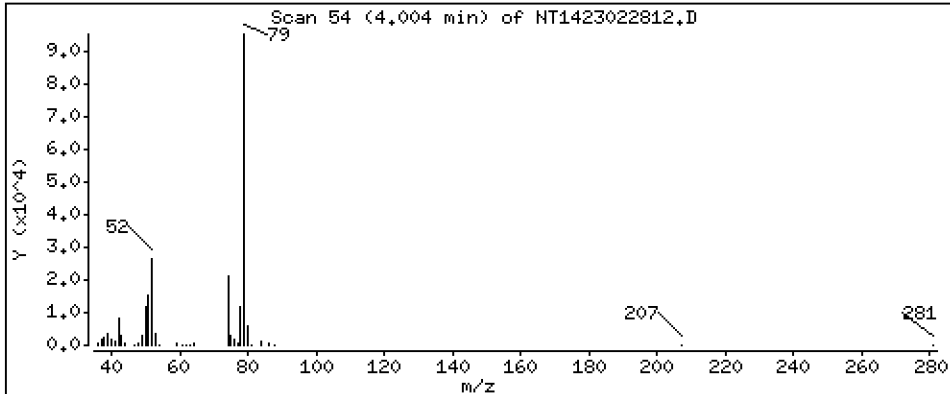
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 2,196 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

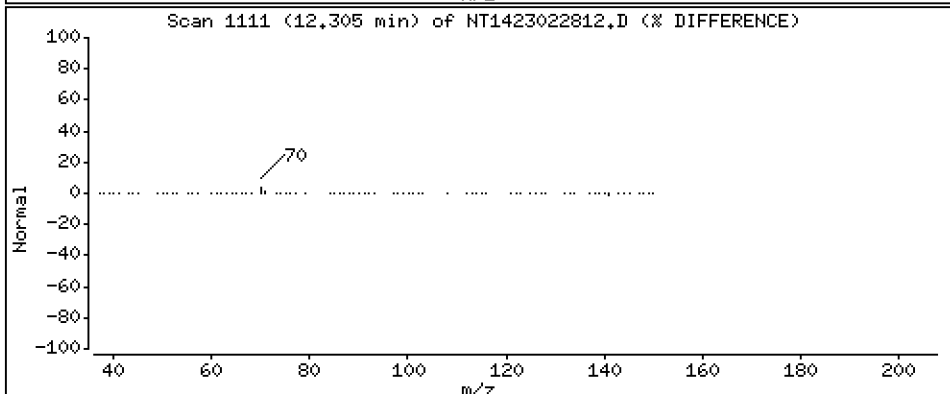
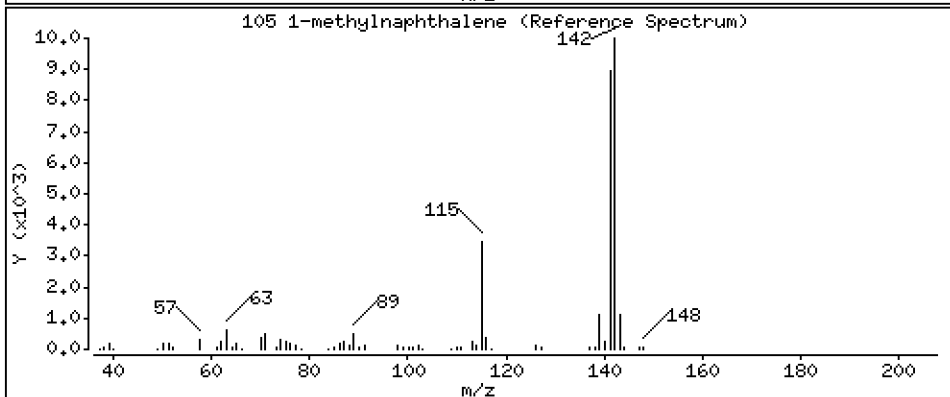
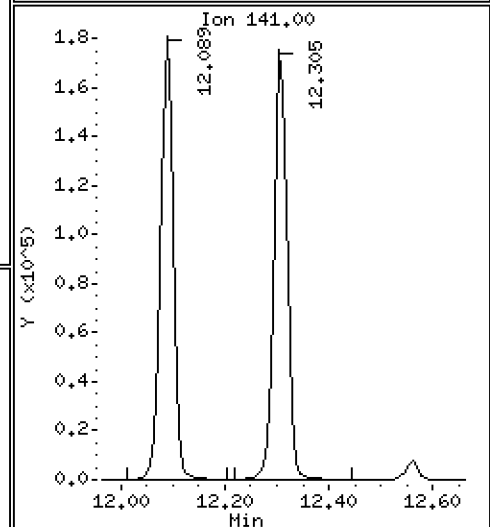
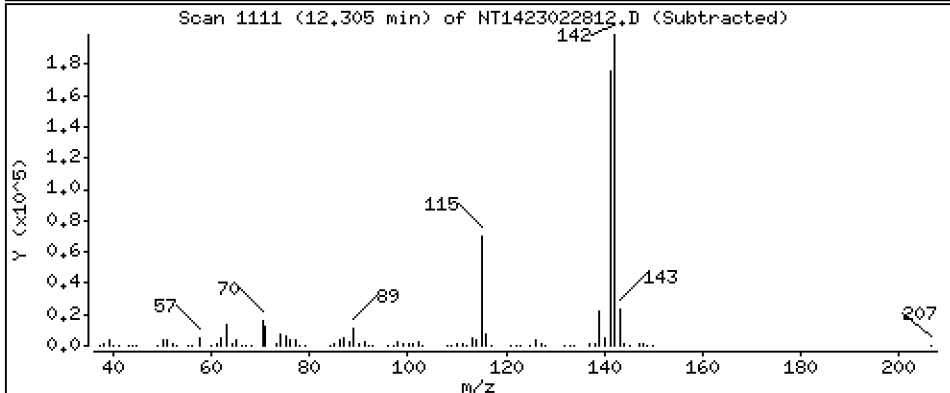
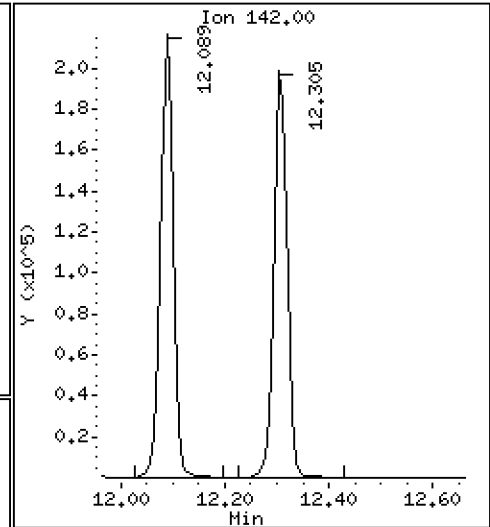
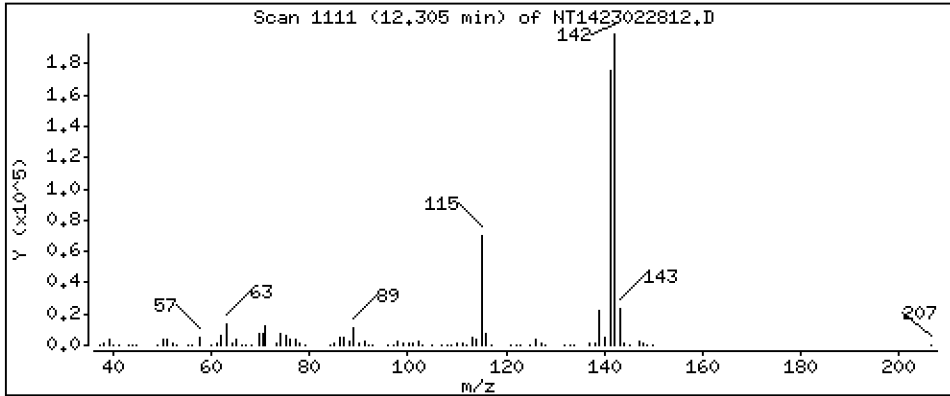
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,871 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

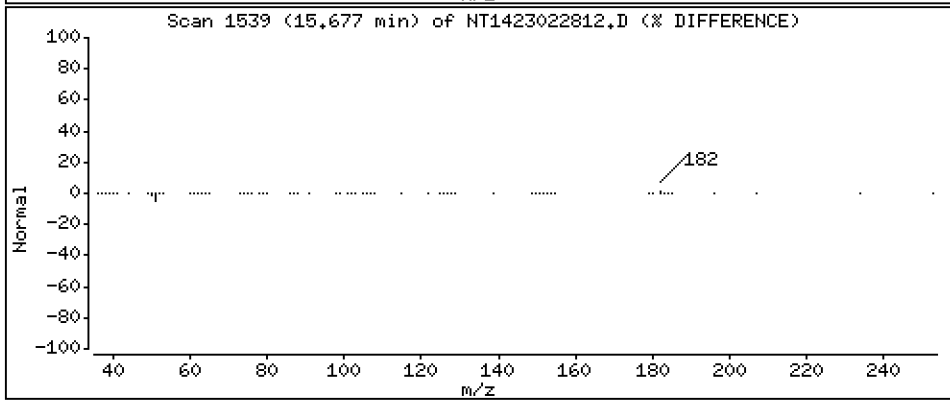
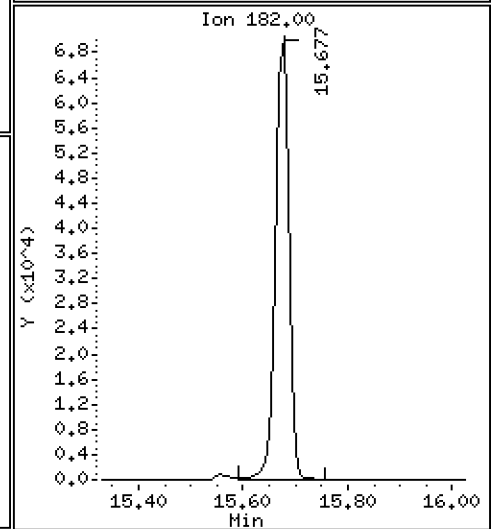
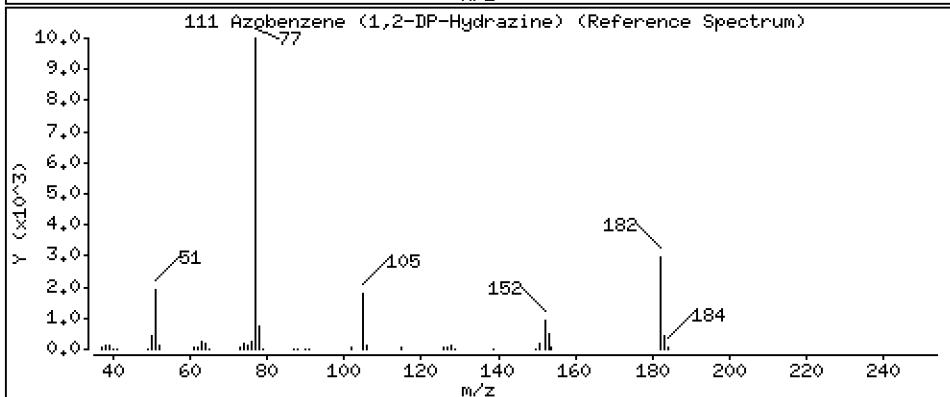
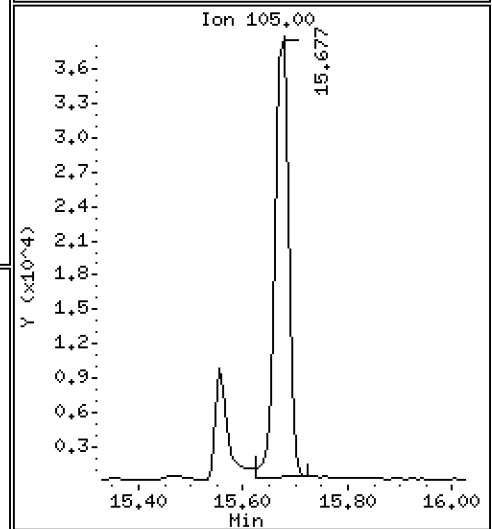
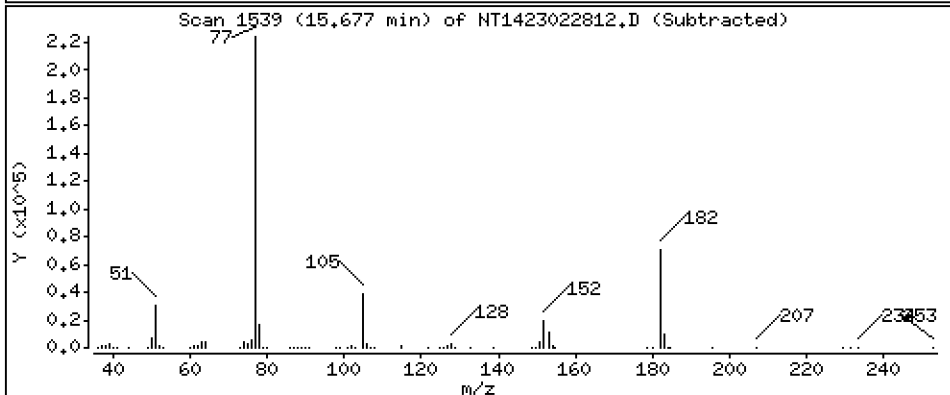
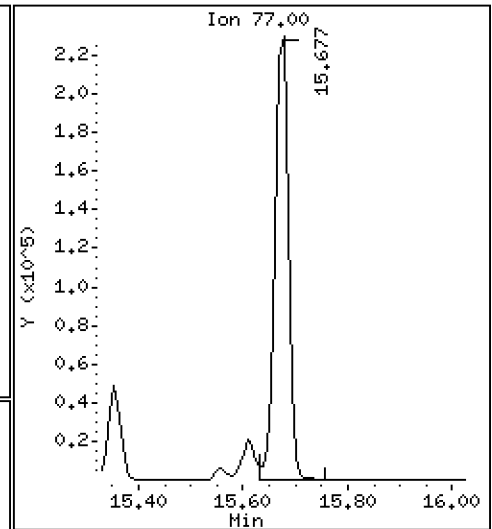
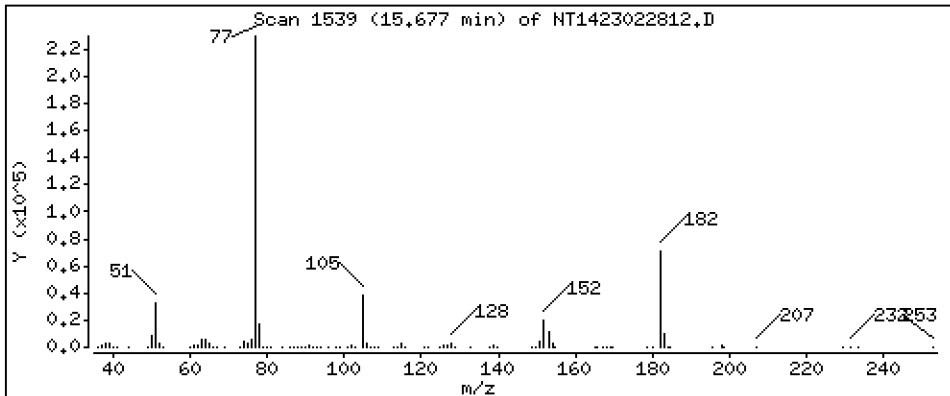
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 5,020 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

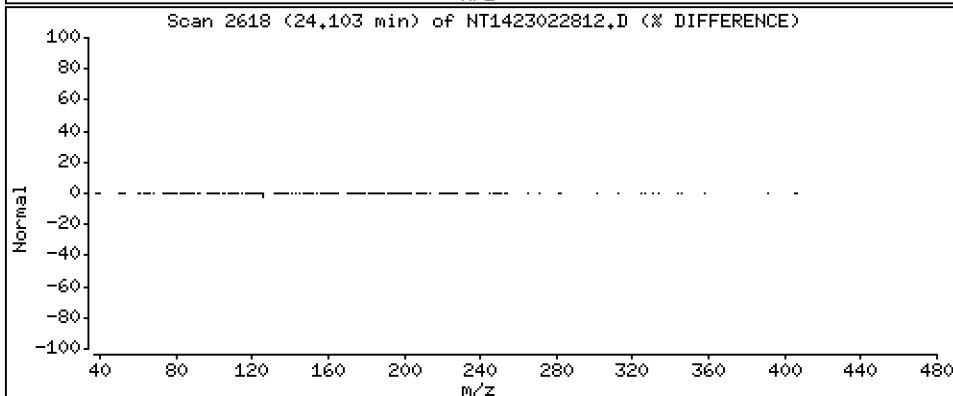
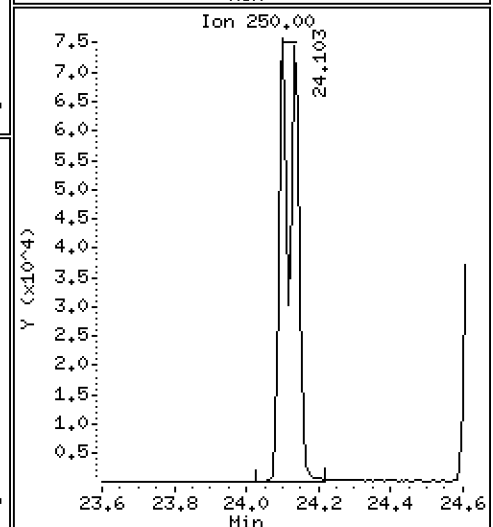
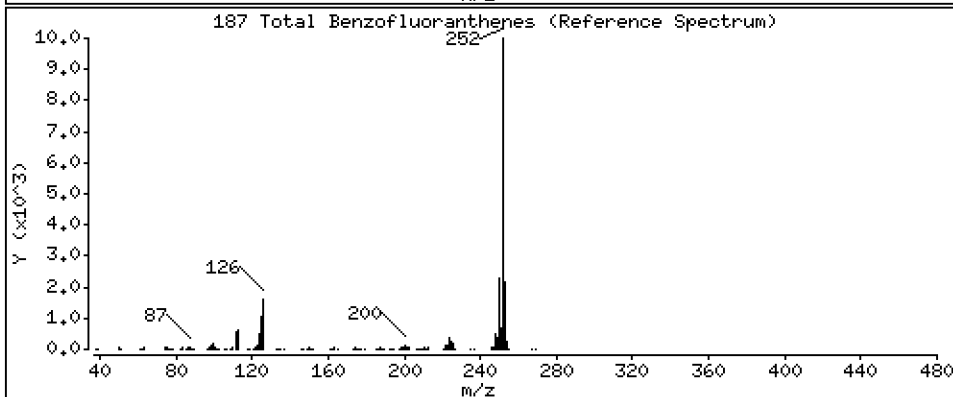
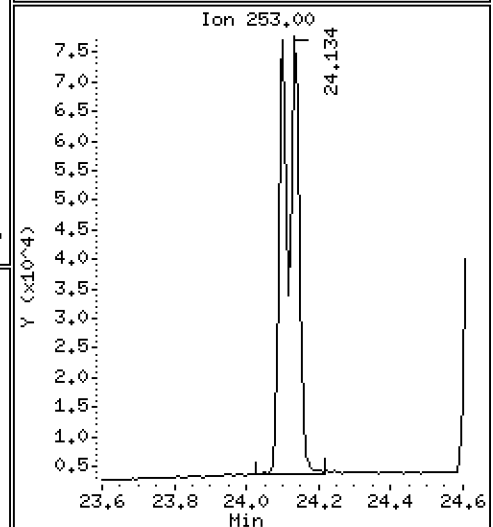
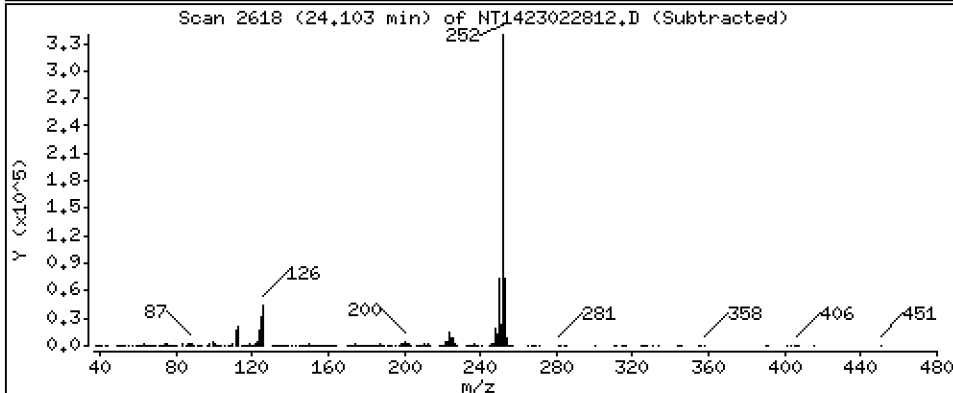
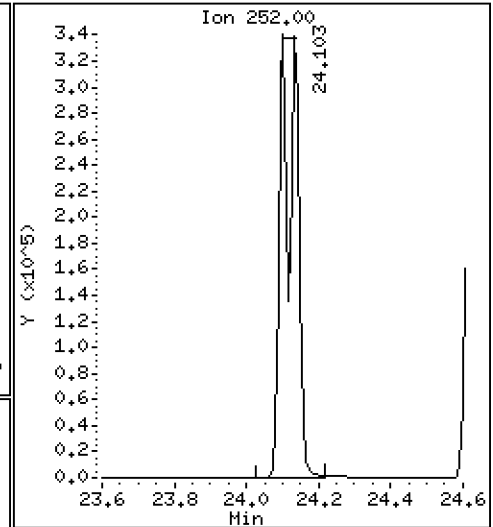
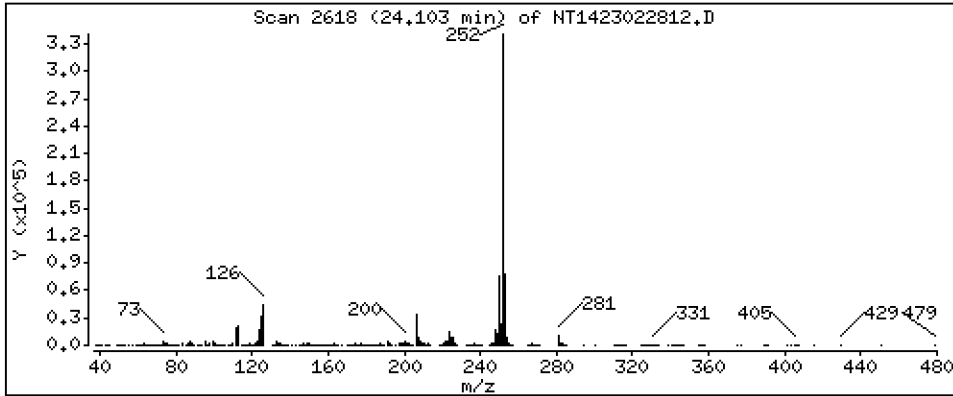
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,562 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

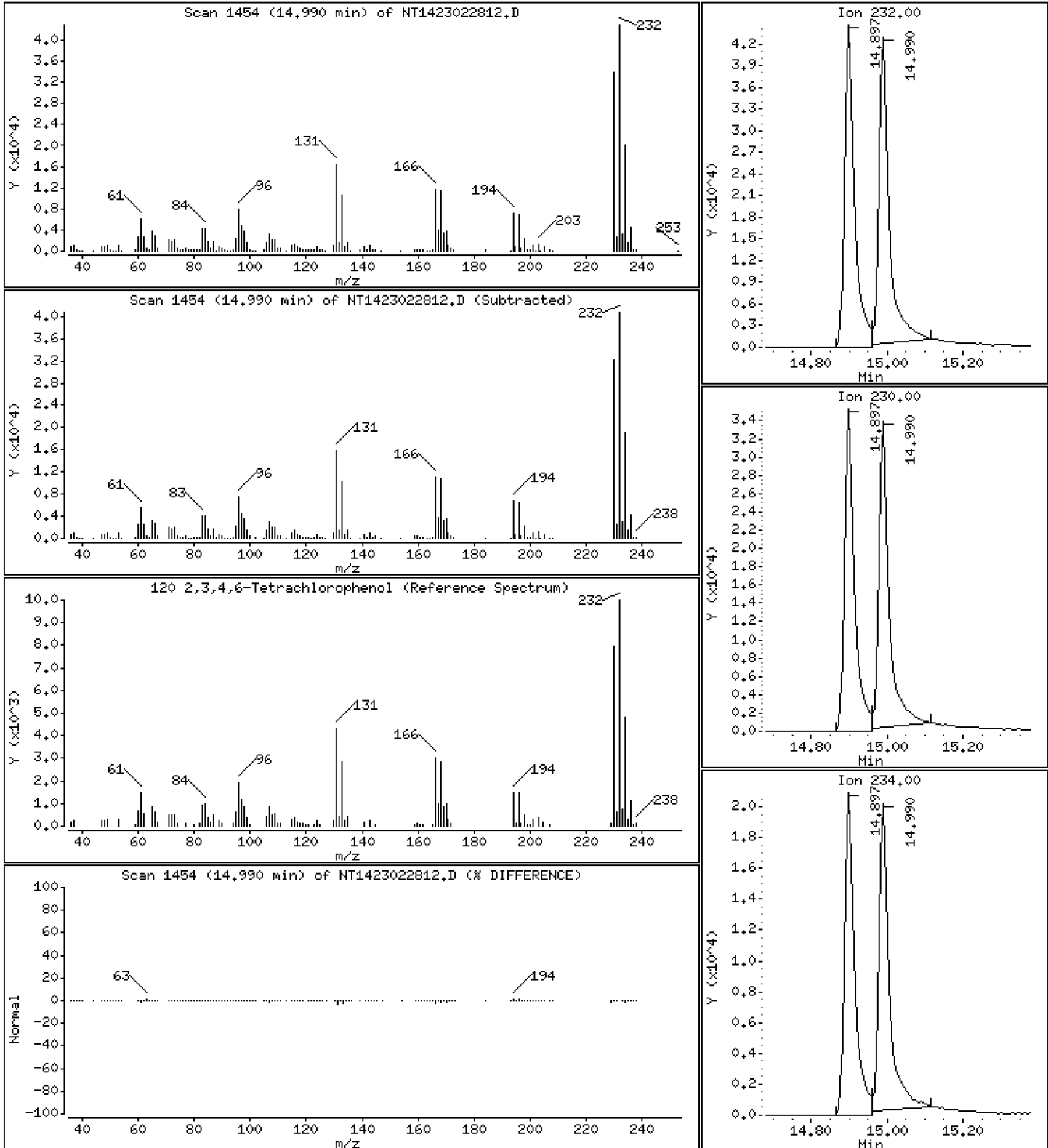
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,467 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022812.D  
 Lab Smp Id: SLB0374-SCV1  
 Inj Date : 28-FEB-2023 17:41 MS Autotune Date: 17-MAY-2011 01:22  
 Operator : JGR Inst ID: nt14.i  
 Smp Info : SLB0374-SCV1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD  
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D  
 Als bottle: 12  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE               | CONCENTRATIONS |           |
|---------------------------------|-------|-----|--------|--------|---------|------------------------|----------------|-----------|
|                                 |       |     |        |        |         |                        | ON-COLUMN      | FINAL     |
|                                 | MASS  |     |        |        |         |                        | (ug/mL)        | (ug/mL)   |
| =====                           | ====  |     | ====   | =====  | =====   | =====                  | =====          | =====     |
| \$ 1 2-Fluorophenol             | 112   |     |        |        |         | Compound Not Detected. |                |           |
| \$ 2 Phenol-d5                  | 99    |     |        |        |         | Compound Not Detected. |                |           |
| 3 Phenol                        | 94    |     | 7.657  | 7.681  | (0.933) | 190853                 | 3.93481        | 3.935     |
| \$ 5 2-Chlorophenol-d4          | 132   |     |        |        |         | Compound Not Detected. |                |           |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 7.789  | 7.805  | (0.949) | 172225                 | 5.22436        | 5.224     |
| 6 2-Chlorophenol                | 128   |     | 7.889  | 7.905  | (0.961) | 165501                 | 4.63235        | 4.632     |
| 7 1,3-Dichlorobenzene           | 146   |     | 8.145  | 8.153  | (0.992) | 188790                 | 4.79491        | 4.795     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 8.207  | 8.207  | (1.000) | 105595                 | 4.00000        |           |
| 9 1,4-Dichlorobenzene           | 146   |     | 8.238  | 8.246  | (1.004) | 186791                 | 4.80018        | 4.800     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     |        |        |         | Compound Not Detected. |                |           |
| 12 1,2-Dichlorobenzene          | 146   |     | 8.587  | 8.595  | (1.046) | 179357                 | 4.80679        | 4.807     |
| 11 Benzyl alcohol               | 108   |     | 8.509  | 8.688  | (1.037) | 92183                  | 4.30388        | 4.304     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 8.804  | 8.812  | (1.073) | 55444                  | 5.50978        | 5.510     |
| 13 2-Methylphenol               | 108   |     | 8.750  | 8.774  | (1.066) | 135033                 | 4.40682        | 4.407     |
| 17 Hexachloroethane             | 117   |     | 9.161  | 9.162  | (1.116) | 74373                  | 5.08929        | 5.089     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.060  | 9.076  | (1.104) | 119882                 | 5.13841        | 5.138     |
| 15 4-Methylphenol               | 108   |     | 9.029  | 9.069  | (1.100) | 147984                 | 4.21848        | 4.218     |
| \$ 18 Nitrobenzene-d5           | 82    |     |        |        |         | Compound Not Detected. |                |           |
| 19 Nitrobenzene                 | 77    |     | 9.332  | 9.356  | (0.875) | 180410                 | 5.05930        | 5.059     |
| 20 Isophorone                   | 82    |     | 9.782  | 9.806  | (0.917) | 349645                 | 6.41026        | 6.410     |
| 21 2-Nitrophenol                | 139   |     | 9.961  | 9.992  | (0.934) | 76558                  | 4.12597        | 4.126     |
| 22 2,4-Dimethylphenol           | 107   |     | 10.054 | 10.062 | (0.943) | 126462                 | 3.89012        | 3.890     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 10.240 | 10.256 | (0.960) | 206654                 | 5.76434        | 5.764     |
| 24 Benzoic acid                 | 105   |     | 10.309 | 10.665 | (0.967) | 52451                  | 4.07142        | 4.071 (M) |
| 25 2,4-Dichlorophenol           | 162   |     | 10.418 | 10.441 | (0.977) | 154075                 | 4.78253        | 4.783     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 10.580 | 10.588 | (0.992) | 175958                 | 4.78932        | 4.789     |
| * 27 Naphthalene-d8             | 136   |     | 10.665 | 10.665 | (1.000) | 379346                 | 4.00000        |           |
| 28 Naphthalene                  | 128   |     | 10.703 | 10.704 | (1.004) | 482268                 | 4.76613        | 4.766     |
| 29 4-Chloroaniline              | 127   |     | 10.858 | 10.889 | (1.018) | 168576                 | 3.89508        | 3.895     |
| 30 Hexachlorobutadiene          | 225   |     | 11.074 | 11.082 | (1.038) | 107684                 | 4.80334        | 4.803     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 11.848 | 11.872 | (1.111) | 142216                 | 4.86015        | 4.860     |
| 32 2-Methylnaphthalene          | 142   |     | 12.088 | 12.096 | (1.133) | 346575                 | 4.62518        | 4.625     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 12.560 | 12.560 | (0.882) | 109998                 | 4.53253        | 4.533     |

| Compounds                         | QUANT | SIG |                        |        |         |        |          | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|------------------------|--------|---------|--------|----------|----------------------|------------------|
|                                   |       |     | MASS                   | RT     | EXP RT  | REL RT | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     | 12.723                 | 12.746 | (0.893) | 107803 | 4.78817  | 4.788                |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     | 12.800                 | 12.831 | (0.898) | 113667 | 4.66940  | 4.669                |                  |
| § 36 2-Fluorobiphenyl             | 172   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 37 2-Chloronaphthalene            | 162   |     | 13.071                 | 13.079 | (0.917) | 353130 | 4.91059  | 4.911                |                  |
| 38 2-Nitroaniline                 | 65    |     | 13.357                 | 13.373 | (0.938) | 93395  | 4.97969  | 4.980                |                  |
| 39 Dimethylphthalate              | 163   |     | 13.806                 | 13.814 | (0.969) | 377389 | 5.20568  | 5.206                |                  |
| 40 Acenaphthylene                 | 152   |     | 13.930                 | 13.938 | (0.978) | 524968 | 4.97505  | 4.975                |                  |
| 41 2,6-Dinitrotoluene             | 165   |     | 13.930                 | 13.938 | (0.978) | 88793  | 5.22670  | 5.227                |                  |
| * 42 Acenaphthene-d10             | 164   |     | 14.247                 | 14.247 | (1.000) | 230482 | 4.00000  |                      |                  |
| 43 3-Nitroaniline                 | 138   |     | 14.209                 | 14.232 | (0.997) | 84775  | 4.86882  | 4.869                |                  |
| 44 Acenaphthene                   | 153   |     | 14.309                 | 14.309 | (1.004) | 322046 | 4.76684  | 4.767                |                  |
| 45 2,4-Dinitrophenol              | 184   |     | 14.433                 | 14.425 | (1.013) | 10550  | 0.98072  | 0.9807               |                  |
| 46 Dibenzofuran                   | 168   |     | 14.634                 | 14.642 | (1.027) | 507169 | 4.71794  | 4.718                |                  |
| 47 4-Nitrophenol                  | 109   |     | 14.572                 | 14.580 | (1.023) | 34204  | 3.93377  | 3.934                |                  |
| 48 2,4-Dinitrotoluene             | 165   |     | 14.726                 | 14.734 | (1.034) | 120852 | 4.94149  | 4.941                |                  |
| 50 Diethylphthalate               | 149   |     | 15.252                 | 15.260 | (1.071) | 367448 | 5.42014  | 5.420                |                  |
| 49 Fluorene                       | 166   |     | 15.337                 | 15.345 | (1.077) | 434135 | 4.79317  | 4.793                |                  |
| 51 4-Chlorophenyl-phenylether     | 204   |     | 15.353                 | 15.361 | (1.078) | 235392 | 4.88448  | 4.884                |                  |
| 52 4-Nitroaniline                 | 138   |     | 15.461                 | 15.492 | (1.085) | 78705  | 4.55998  | 4.560                |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     | 15.554                 | 15.608 | (0.902) | 49314  | 3.23357  | 3.234                |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     | 15.607                 | 15.616 | (0.905) | 286663 | 4.97950  | 4.980                |                  |
| § 55 2,4,6-Tribromophenol         | 330   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 56 4-Bromophenyl-phenylether      | 248   |     | 16.348                 | 16.348 | (0.948) | 130387 | 5.15173  | 5.152                |                  |
| 57 Hexachlorobenzene              | 284   |     | 16.634                 | 16.634 | (0.965) | 133283 | 4.78977  | 4.790                |                  |
| 58 Pentachlorophenol              | 266   |     | 17.013                 | 17.021 | (0.987) | 46829  | 3.52378  | 3.524 (M)            |                  |
| * 59 Phenanthrene-d10             | 188   |     | 17.245                 | 17.245 | (1.000) | 458109 | 4.00000  |                      |                  |
| 60 Phenanthrene                   | 178   |     | 17.291                 | 17.300 | (1.003) | 562433 | 4.61514  | 4.615                |                  |
| 61 Anthracene                     | 178   |     | 17.384                 | 17.392 | (1.008) | 486699 | 4.22447  | 4.224                |                  |
| 62 Carbazole                      | 167   |     | 17.732                 | 17.748 | (1.028) | 482242 | 4.77590  | 4.776                |                  |
| 63 Di-n-butylphthalate            | 149   |     | 18.599                 | 18.599 | (1.079) | 617439 | 4.81920  | 4.819                |                  |
| 64 Fluoranthene                   | 202   |     | 19.713                 | 19.721 | (0.881) | 680212 | 5.10377  | 5.104                |                  |
| 65 Pyrene                         | 202   |     | 20.139                 | 20.147 | (0.900) | 696600 | 4.95743  | 4.957                |                  |
| § 66 Terphenyl-d14                | 244   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 67 Butylbenzylphthalate           | 149   |     | 21.439                 | 21.447 | (0.958) | 242201 | 4.96478  | 4.965                |                  |
| 68 Benzo(a)anthracene             | 228   |     | 22.338                 | 22.338 | (0.999) | 578542 | 4.91658  | 4.917                |                  |
| * 69 Chrysene-d12                 | 240   |     | 22.368                 | 22.361 | (1.000) | 351284 | 4.00000  |                      |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     | 22.322                 | 22.330 | (0.998) | 345809 | 10.2906  | 10.29                |                  |
| 71 Chrysene                       | 228   |     | 22.407                 | 22.415 | (1.002) | 515316 | 4.55608  | 4.556                |                  |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 22.500                 | 22.500 | (0.958) | 338426 | 5.27680  | 5.277                |                  |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 23.476                 | 23.476 | (1.000) | 422614 | 4.00000  |                      |                  |
| 73 Di-n-octylphthalate            | 149   |     | 23.483                 | 23.484 | (1.000) | 576704 | 5.18281  | 5.183                |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 24.103                 | 24.103 | (0.975) | 541825 | 4.87157  | 4.872                |                  |
| 75 Benzo(k)fluoranthene           | 252   |     | 24.134                 | 24.134 | (0.977) | 559543 | 4.66326  | 4.663                |                  |
| 76 Benzo(a)pyrene                 | 252   |     | 24.614                 | 24.622 | (0.996) | 466252 | 4.88626  | 4.886                |                  |
| * 77 Perylene-d12                 | 264   |     | 24.714                 | 24.715 | (1.000) | 336637 | 4.00000  |                      |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 26.785                 | 26.793 | (1.084) | 587567 | 4.89167  | 4.892                |                  |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 26.800                 | 26.800 | (1.084) | 500585 | 4.90681  | 4.907                |                  |
| 80 Benzo(g,h,i)perylene           | 276   |     | 27.383                 | 27.391 | (1.108) | 508988 | 4.85849  | 4.858                |                  |
| 90 N-Nitrosodimethylamine         | 74    |     | 3.988                  | 4.104  | (0.486) | 94230  | 4.50713  | 4.507                |                  |
| 91 Aniline                        | 93    |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 93 Benzidine                      | 184   |     | 19.999                 | 20.015 | (0.894) | 253209 | 4.50911  | 4.509                |                  |
| 103 Pyridine                      | 79    |     | 4.004                  | 4.027  | (0.488) | 137878 | 2.19631  | 2.196                |                  |
| 105 1-methylnaphthalene           | 142   |     | 12.305                 | 12.313 | (1.154) | 335999 | 4.87061  | 4.871                |                  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     | 15.677                 | 15.677 | (1.100) | 390699 | 5.02002  | 5.020                |                  |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 24.103 | 24.103 | (0.975) | 1040320  | 9.56184              | 9.562            |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 14.989 | 15.029 | (1.052) | 91471    | 3.46740              | 3.467            |

QC Flag Legend

M - Compound response manually integrated.



ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023  
 Lab File ID: NT1423022812.D Calibration Time: 12:51  
 Lab Smp Id: SLB0374-SCV1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: JGR  
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 114351   | 57176      | 228702  | 105595 | -7.66  |
| 27 Naphthalene-d8     | 408655   | 204328     | 817310  | 379346 | -7.17  |
| 42 Acenaphthene-d10   | 254000   | 127000     | 508000  | 230482 | -9.26  |
| 59 Phenanthrene-d10   | 490626   | 245313     | 981252  | 458109 | -6.63  |
| 69 Chrysene-d12       | 390400   | 195200     | 780800  | 351284 | -10.02 |
| 134 Di-n-octylphthala | 500829   | 250415     | 1001658 | 422614 | -15.62 |
| 77 Perylene-d12       | 375675   | 187838     | 751350  | 336637 | -10.39 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 8.21     | 7.71     | 8.71  | 8.21   | -0.09 |
| 27 Naphthalene-d8     | 10.67    | 10.17    | 11.17 | 10.67  | 0.00  |
| 42 Acenaphthene-d10   | 14.25    | 13.75    | 14.75 | 14.25  | 0.00  |
| 59 Phenanthrene-d10   | 17.25    | 16.75    | 17.75 | 17.25  | -0.04 |
| 69 Chrysene-d12       | 22.38    | 21.88    | 22.88 | 22.37  | -0.03 |
| 134 Di-n-octylphthala | 23.48    | 22.98    | 23.98 | 23.48  | -0.03 |
| 77 Perylene-d12       | 24.72    | 24.22    | 25.22 | 24.71  | -0.03 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423022812.D

Lab ID: SLB0374-SCV1  
nt14.i, ABN.m, 28-FEB-2023 17:41

| RT     | CO-ELUTION COMPOUNDS                  |
|--------|---------------------------------------|
| 13.930 | Acenaphthylene and 2,6-Dinitrotoluene |

\*\* FIRST SURROGATE NOT FOUND. ICAL Check not performed \*\*

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND               |
|-------|---------|---------|------------------------|
| 1.037 | 1.059   | -0.0218 | Benzyl alcohol         |
| 0.967 | 0.000   | 0.9667  | Benzoic acid           |
| 1.013 | 0.000   | 1.0130  | 2,4-Dinitrophenol      |
| 1.023 | 0.000   | 1.0228  | 4-Nitrophenol          |
| 0.987 | 0.000   | 0.9865  | Pentachlorophenol      |
| 0.486 | 0.500   | -0.0141 | N-Nitrosodimethylamine |
| 0.488 | 0.000   | 0.4879  | Pyridine               |

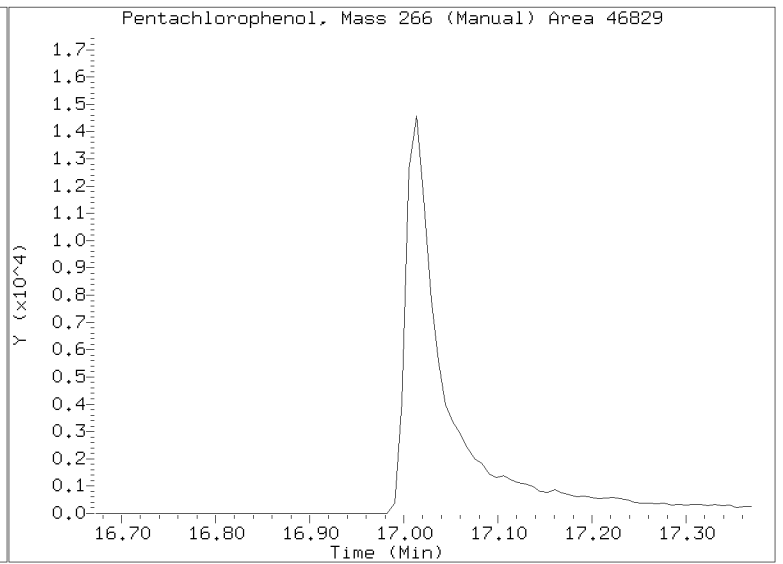
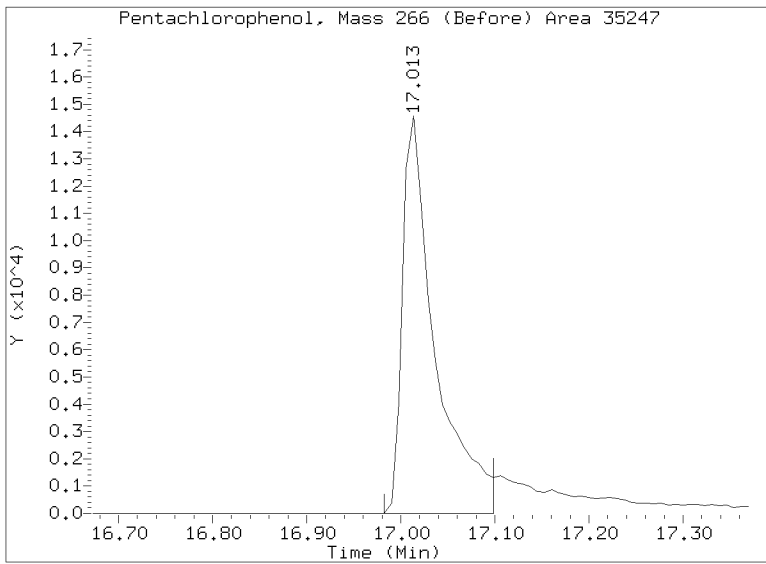
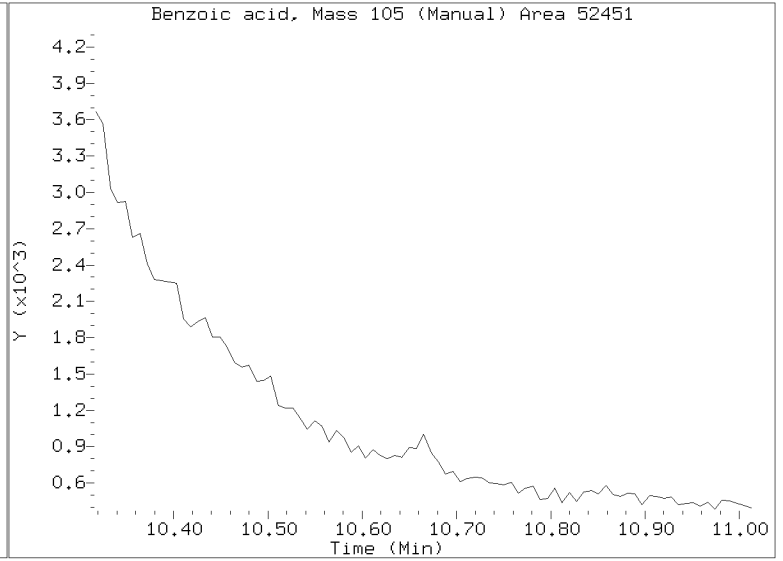
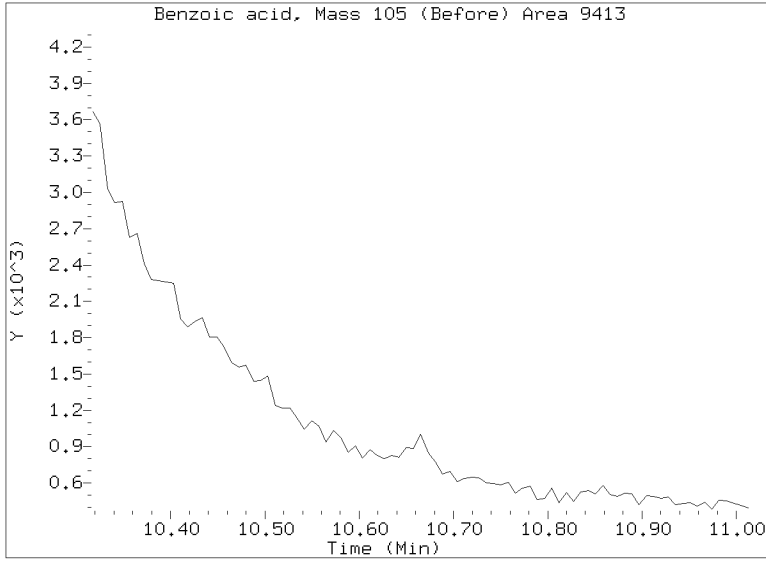
RRT check based on Ccal File: NT1423022808.D

On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022812.D  
Injection Date: 28-FEB-2023 17:41  
Lab ID:SLB0374-SCV1 Client ID:  
Report Date: 03/10/2023 13:21





SECOND-SOURCE  
CONTINUING CALIBRATION CHECK  
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT10

Calibration: GC00046

Lab File ID: NT10031511.D

Calibration Date: 03/15/2023

Sequence: SLC0228

Injection Date: 03/16/23

Lab Sample ID: SLC0228-SCV1

Injection Time: 02:16

Sequence Name: SCV 5.0

| COMPOUND                    | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|-----------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|-------|
|                             |      | STD           | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Phenol                      | A    | 5.0000        | 4.4  | 1.6490140             | 1.4552130 |     | -11.8        | +/-20 |
| 4-Methylphenol              | A    | 5.0000        | 4.4  | 1.2665770             | 1.1056260 |     | -12.7        | +/-20 |
| Naphthalene                 | A    | 5.0000        | 4.7  | 1.0596590             | 0.9996013 |     | -5.7         | +/-20 |
| 2-Methylnaphthalene         | A    | 5.0000        | 4.6  | 0.7647129             | 0.7029502 |     | -8.1         | +/-20 |
| Acenaphthylene              | A    | 5.0000        | 4.8  | 1.9964080             | 1.9185840 |     | -3.9         | +/-20 |
| Dimethylphthalate           | A    | 5.0000        | 4.9  | 1.2994310             | 1.2831790 |     | -1.3         | +/-20 |
| Acenaphthene                | A    | 5.0000        | 4.8  | 1.2333460             | 1.1780660 |     | -4.5         | +/-20 |
| Dibenzofuran                | A    | 5.0000        | 4.6  | 1.8187540             | 1.6906760 |     | -7.0         | +/-20 |
| Fluorene                    | A    | 5.0000        | 4.7  | 1.4308680             | 1.3472940 |     | -5.8         | +/-20 |
| Phenanthrene                | A    | 5.0000        | 4.6  | 1.0907130             | 1.0038520 |     | -8.0         | +/-20 |
| Anthracene                  | A    | 5.0000        | 4.2  | 1.0462760             | 0.8719973 |     | -16.7        | +/-20 |
| Fluoranthene                | A    | 5.0000        | 4.5  | 1.6072690             | 1.4376960 |     | -10.6        | +/-20 |
| Pyrene                      | A    | 5.0000        | 4.3  | 1.6487720             | 1.4307800 |     | -13.2        | +/-20 |
| Butylbenzylphthalate        | A    | 5.0000        | 4.8  | 0.5292894             | 0.5769788 |     | -3.3         | +/-20 |
| Benzo(a)anthracene          | A    | 5.0000        | 4.6  | 1.4118770             | 1.3122590 |     | -7.1         | +/-20 |
| Chrysene                    | A    | 5.0000        | 4.5  | 1.3793780             | 1.2442450 |     | -9.8         | +/-20 |
| bis(2-Ethylhexyl)phthalate  | A    | 5.0000        | 4.7  | 0.5248968             | 0.5492136 |     | -6.4         | +/-20 |
| Benzo(a)fluoranthene, Total | A    | 10.0000       | 9.5  | 1.2519020             | 1.1872400 |     | -5.2         | +/-20 |
| Benzo(a)pyrene              | A    | 5.0000        | 4.9  | 1.1592370             | 1.1298800 |     | -2.5         | +/-20 |
| Indeno(1,2,3-cd)pyrene      | A    | 5.0000        | 4.6  | 1.4748270             | 1.3499250 |     | -8.5         | +/-20 |
| Dibenzo(a,h)anthracene      | A    | 5.0000        | 4.5  | 1.2244340             | 1.1134110 |     | -9.1         | +/-20 |
| Benzo(g,h,i)perylene        | A    | 5.0000        | 4.6  | 1.2763410             | 1.1716820 |     | -8.2         | +/-20 |
| 2-Fluorophenol              | A    |               | 0.00 | 1.2096460             |           |     |              | +/-20 |
| Phenol-d5                   | A    |               | 0.00 | 1.5868760             |           |     |              | +/-20 |
| 2-Chlorophenol-d4           | A    |               | 0.00 | 1.3550800             |           |     |              | +/-20 |
| 1,2-Dichlorobenzene-d4      | A    |               | 0.00 | 0.9731556             |           |     |              | +/-20 |
| Nitrobenzene-d5             | A    |               | 0.00 | 0.4037447             |           |     |              | +/-20 |
| 2-Fluorobiphenyl            | A    |               | 0.00 | 1.5822890             |           |     |              | +/-20 |
| 2,4,6-Tribromophenol        | A    |               | 0.00 | 0.1585901             |           |     |              | +/-20 |
| p-Terphenyl-d14             | A    |               | 0.00 | 1.2381950             |           |     |              | +/-20 |

\* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031511.D

Date: 16-MAR-2023 02:16

Client ID:

Sample Info: SLC0228-SCV1

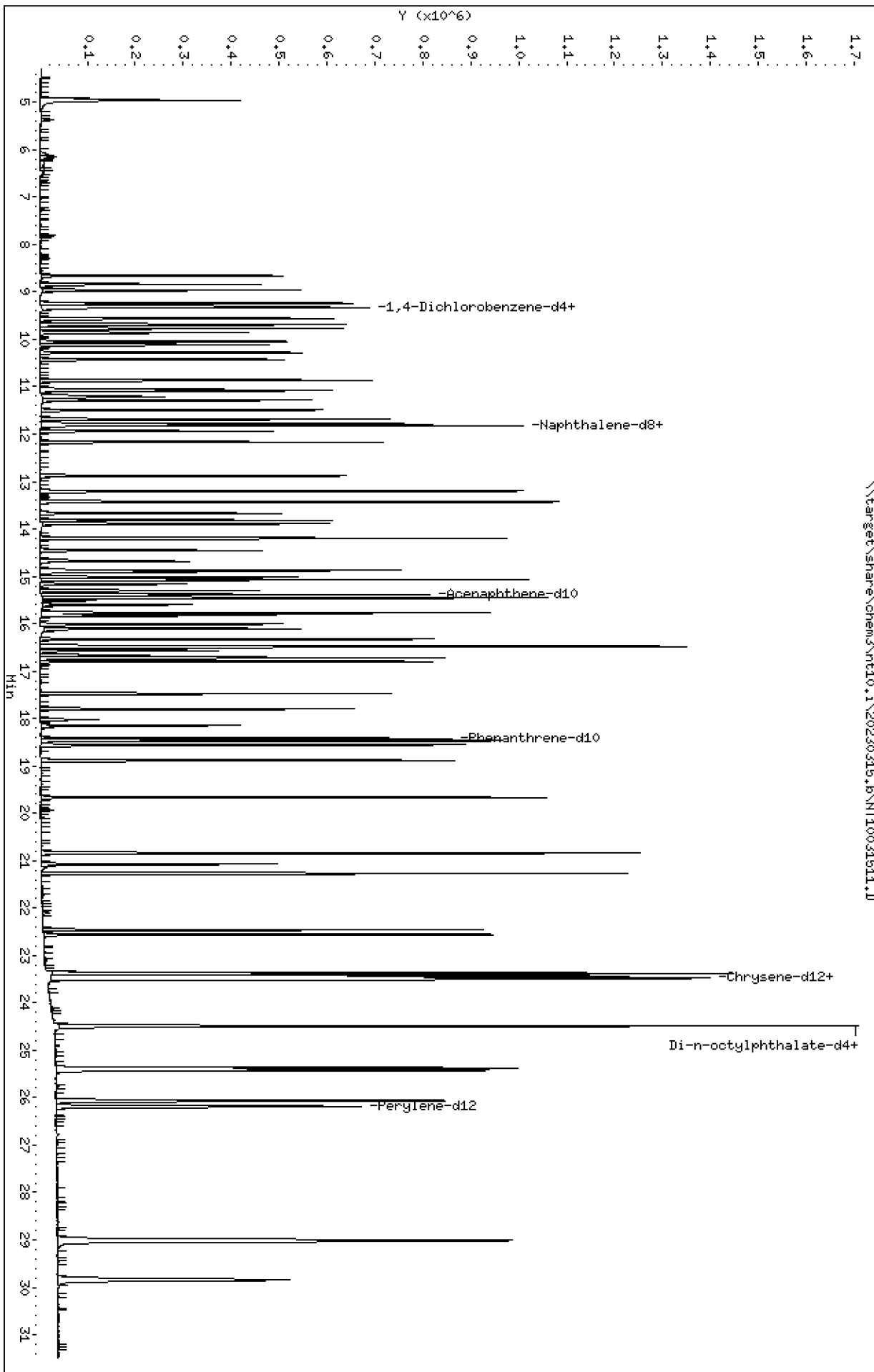
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20230315.6\NT10031511.D



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

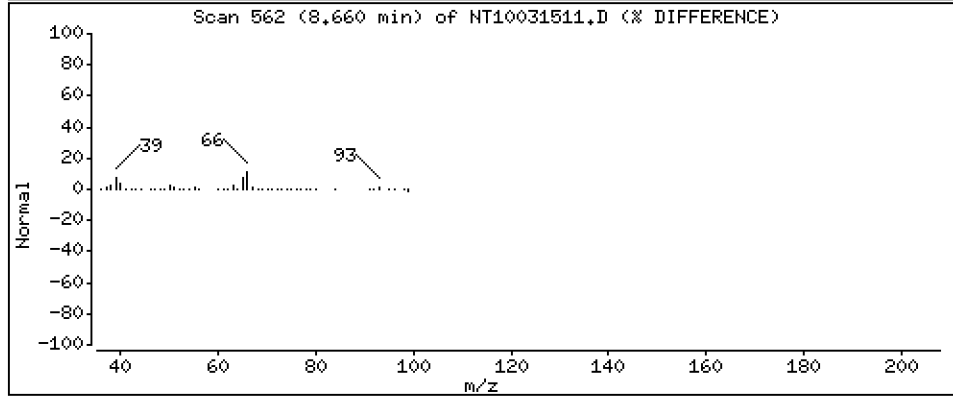
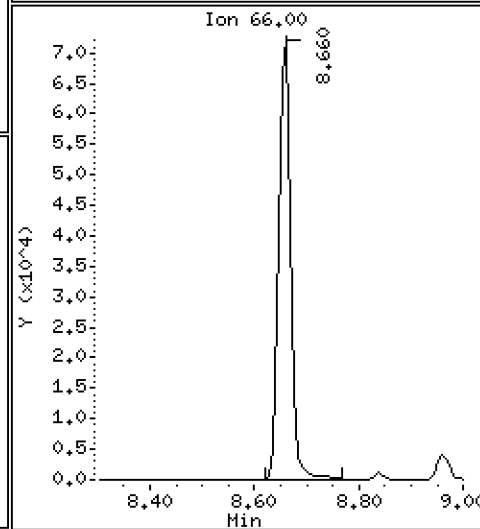
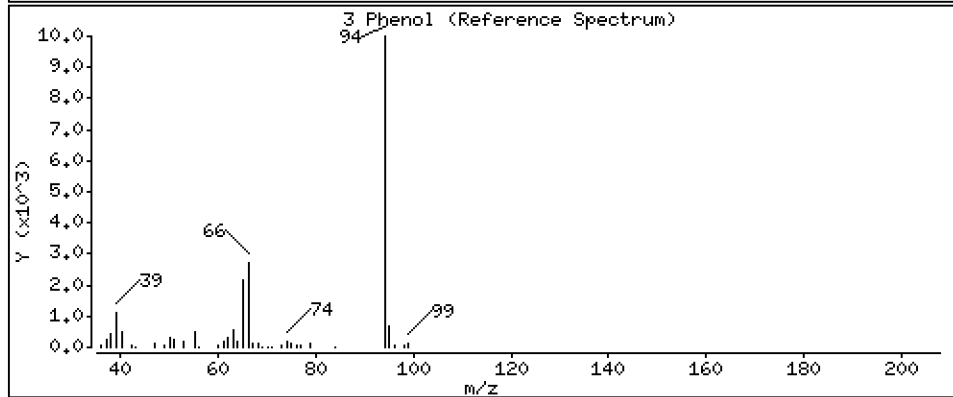
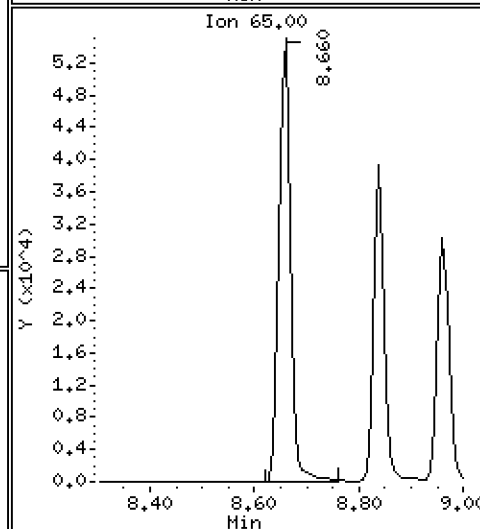
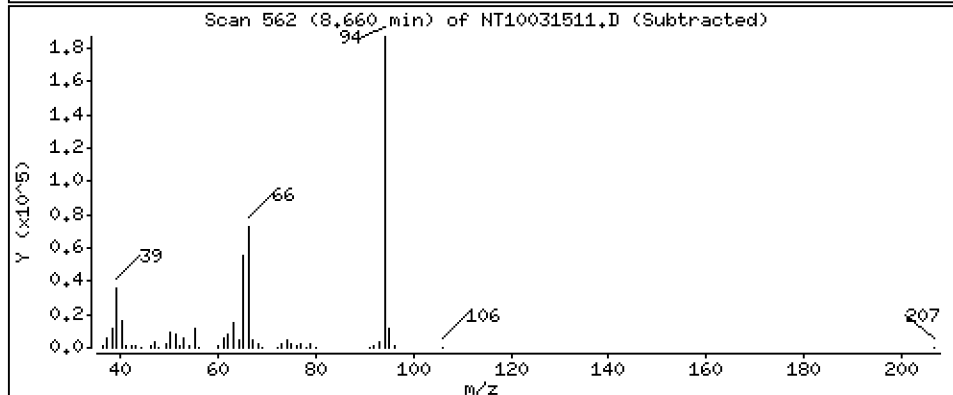
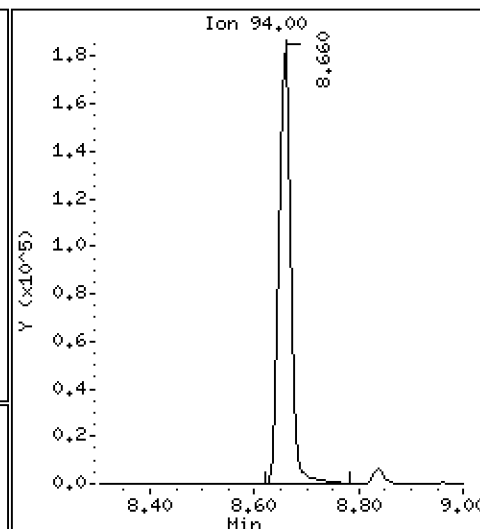
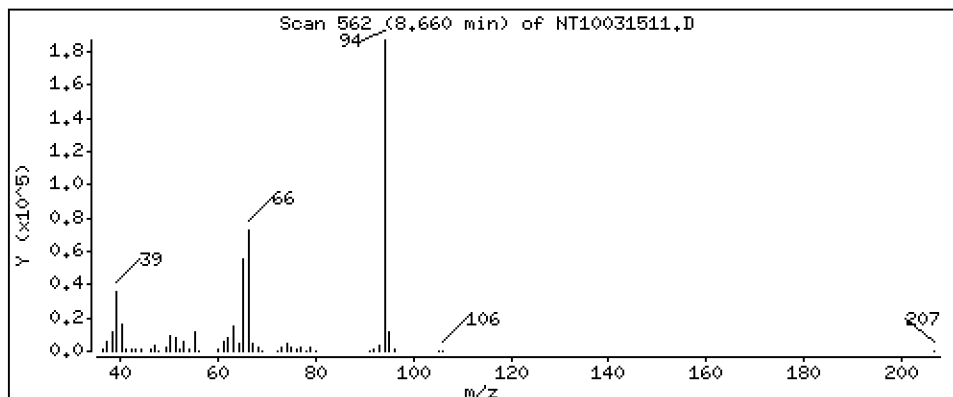
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 4,412 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

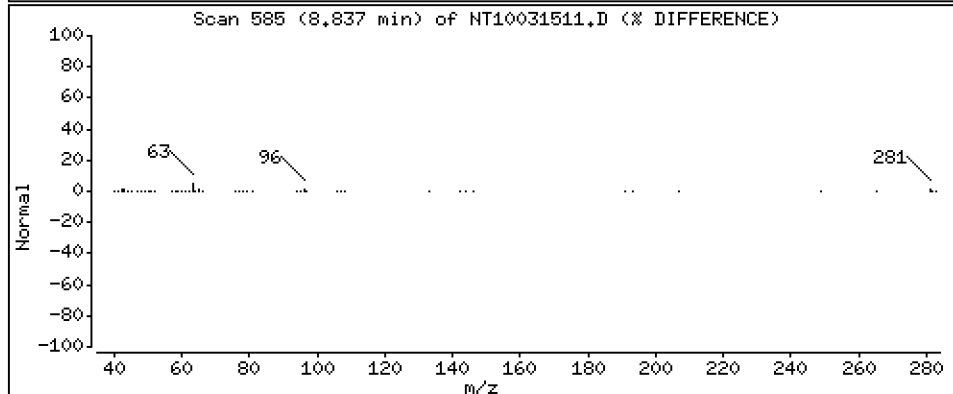
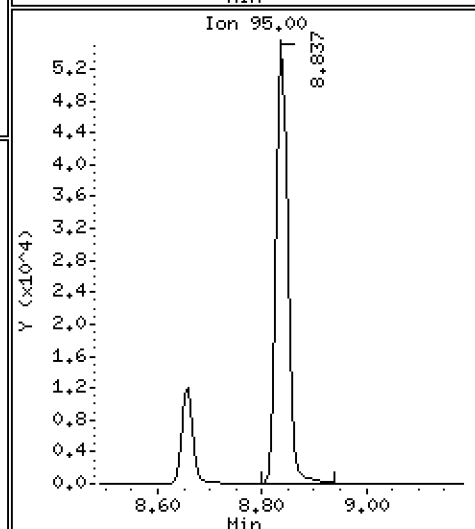
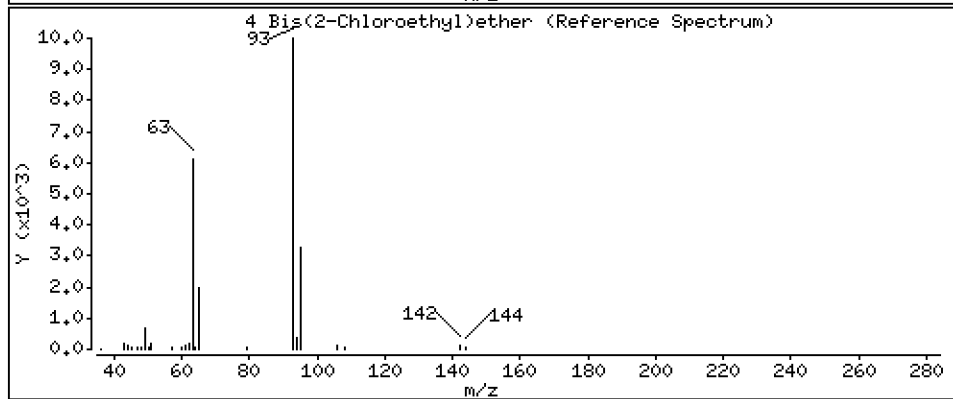
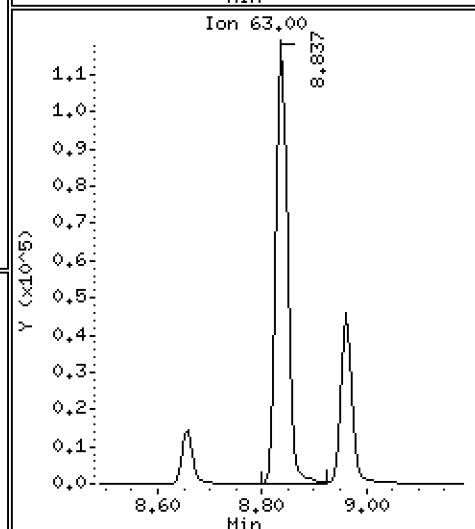
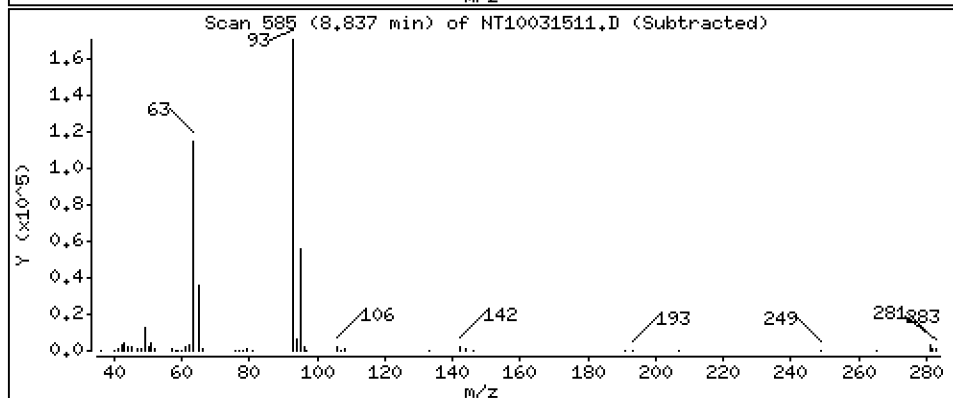
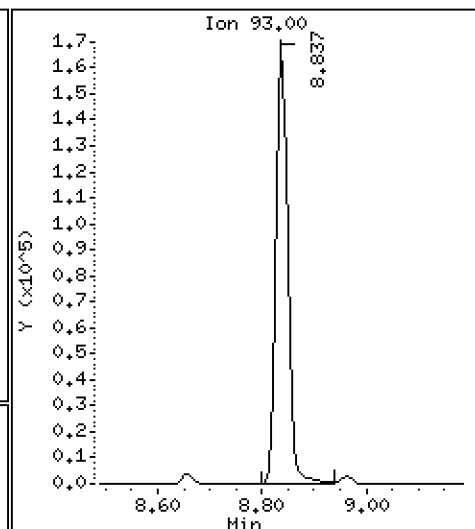
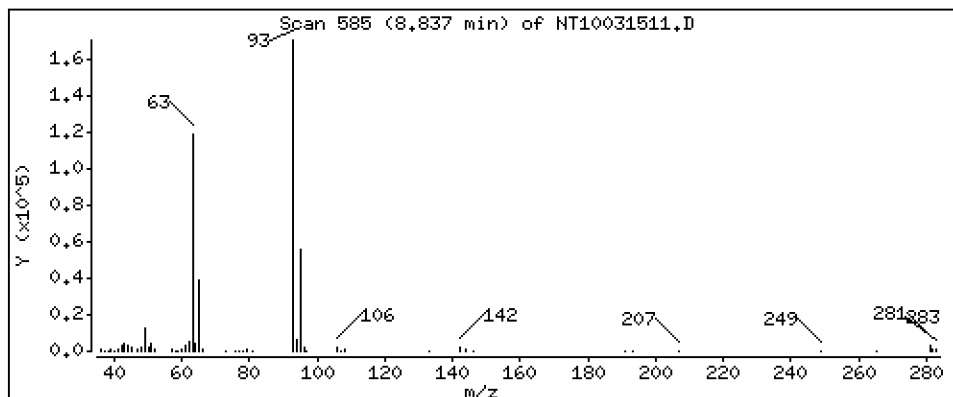
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 5,258 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

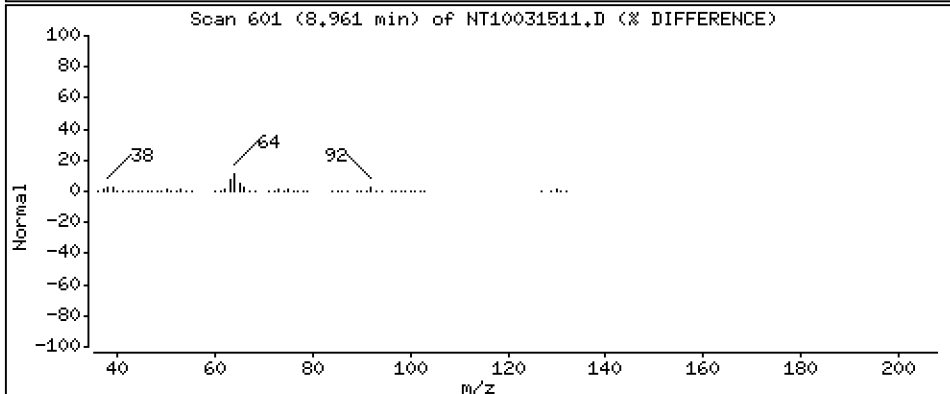
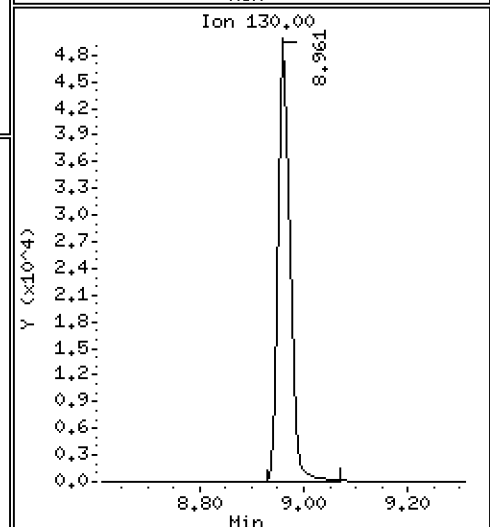
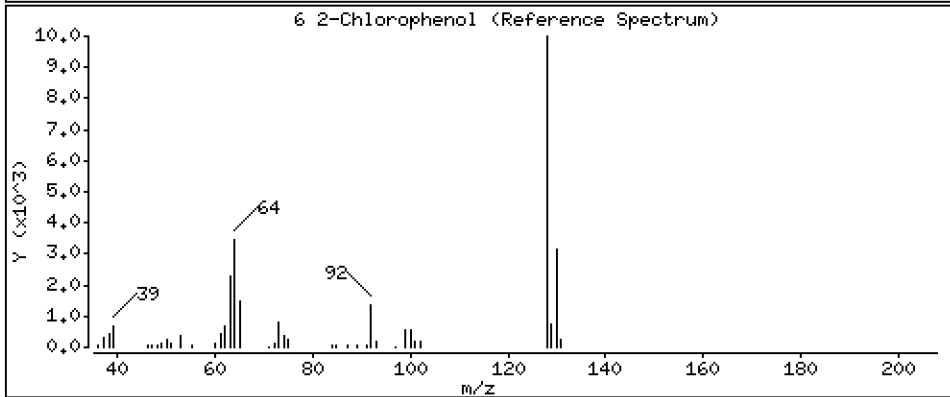
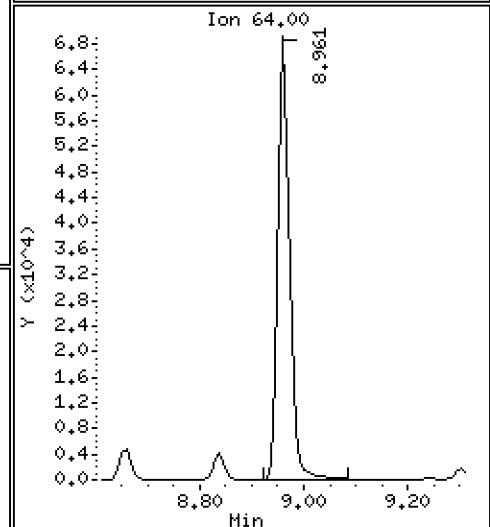
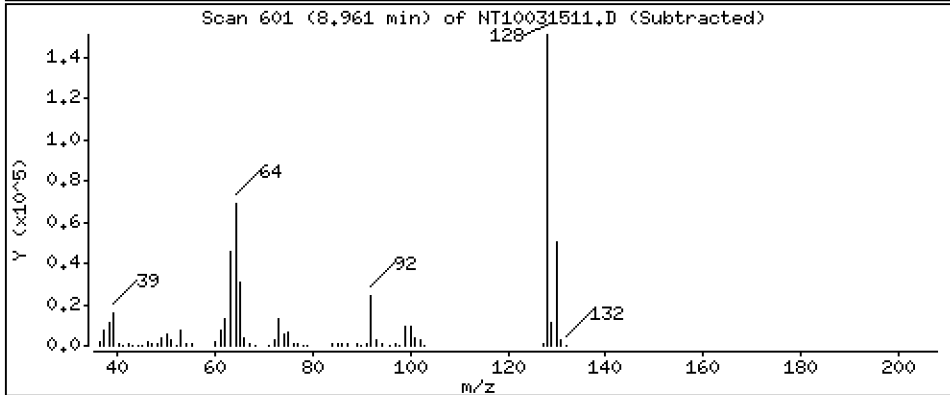
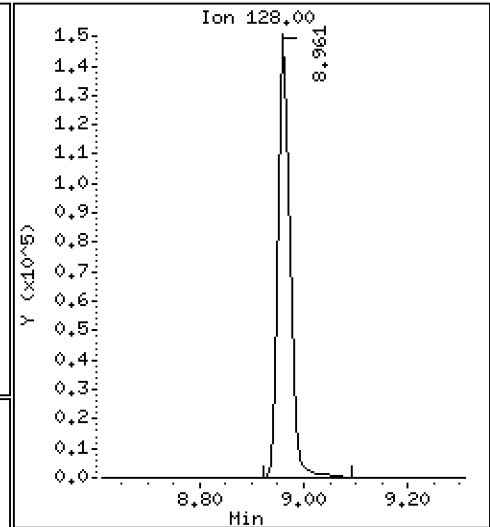
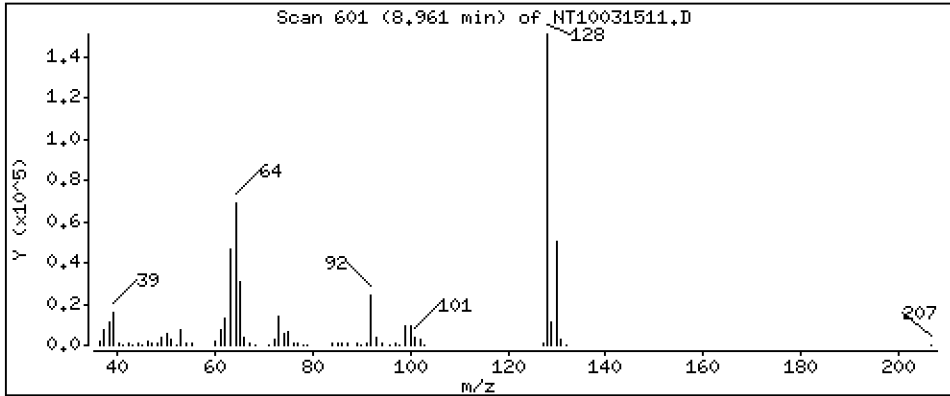
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,277 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

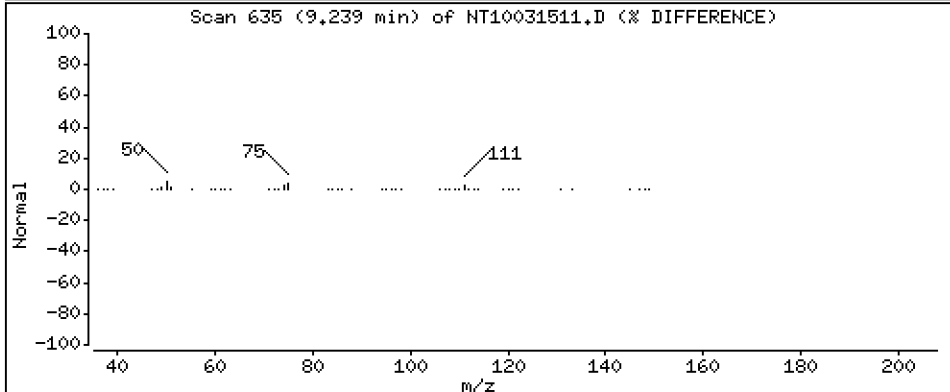
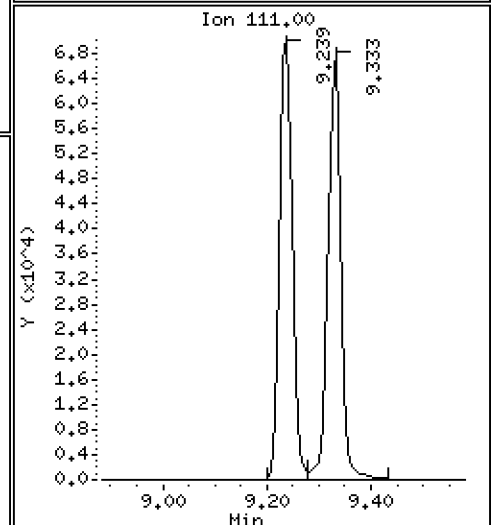
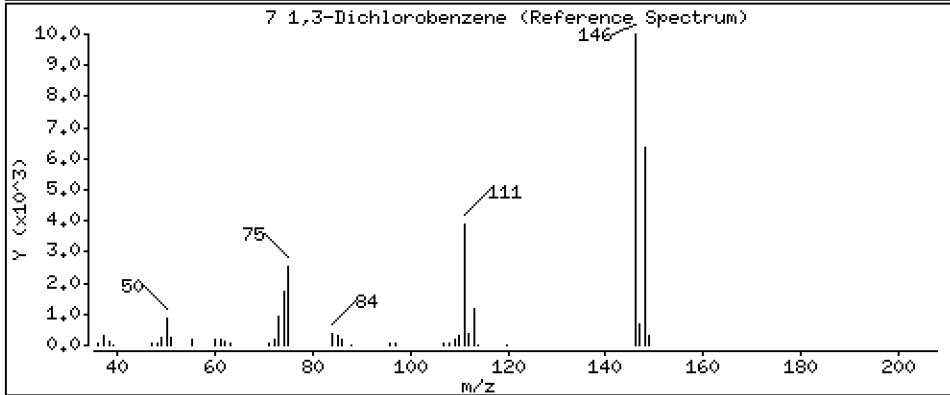
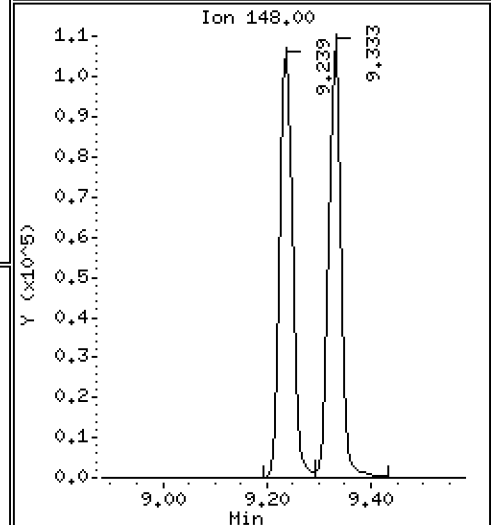
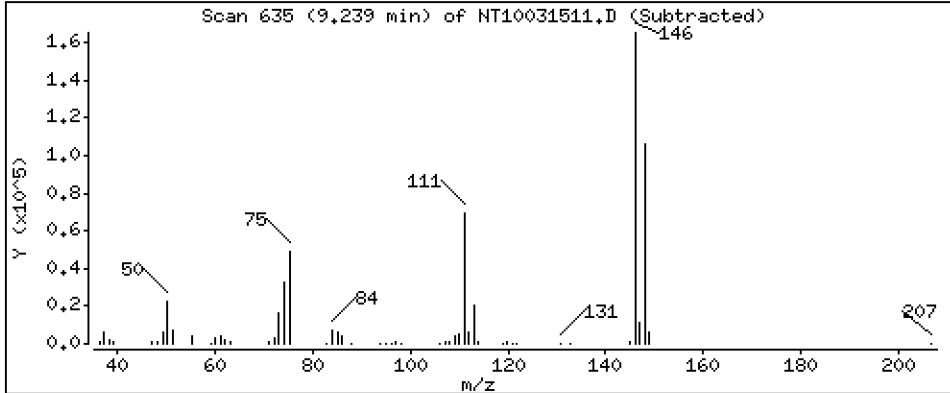
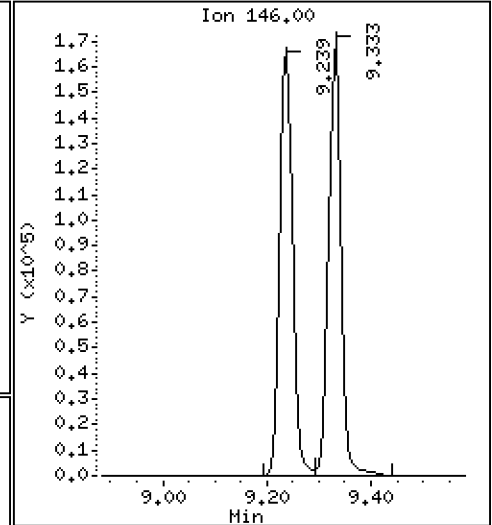
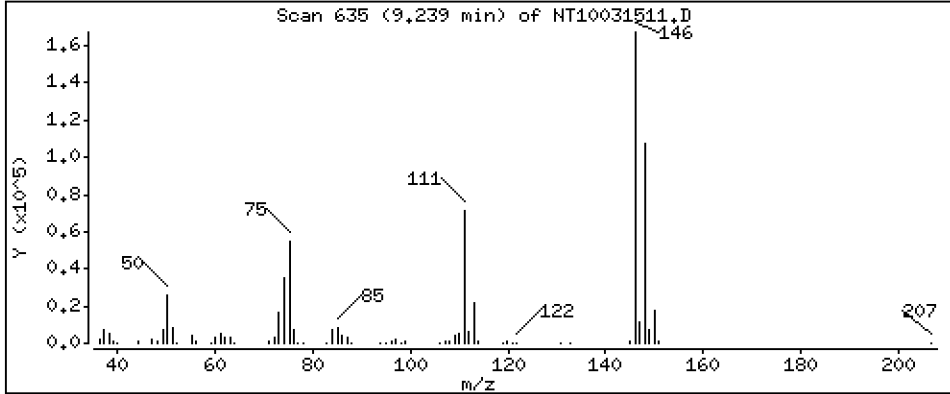
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 4.772 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

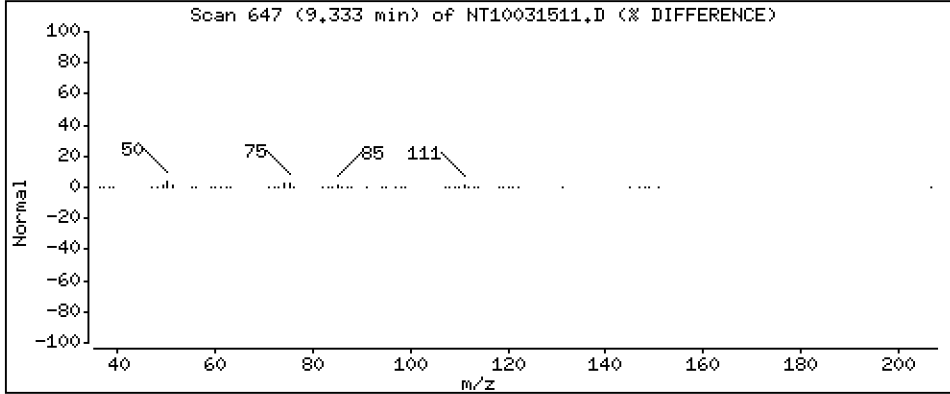
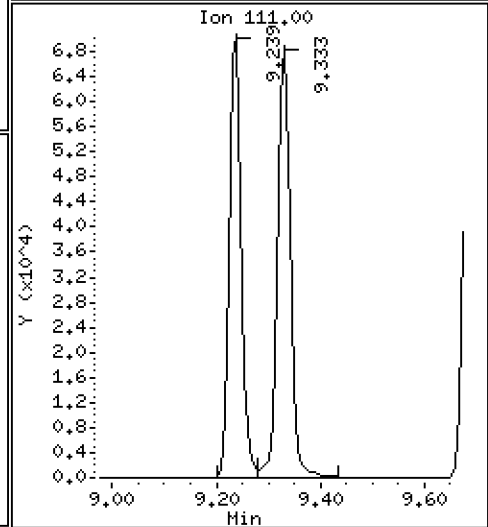
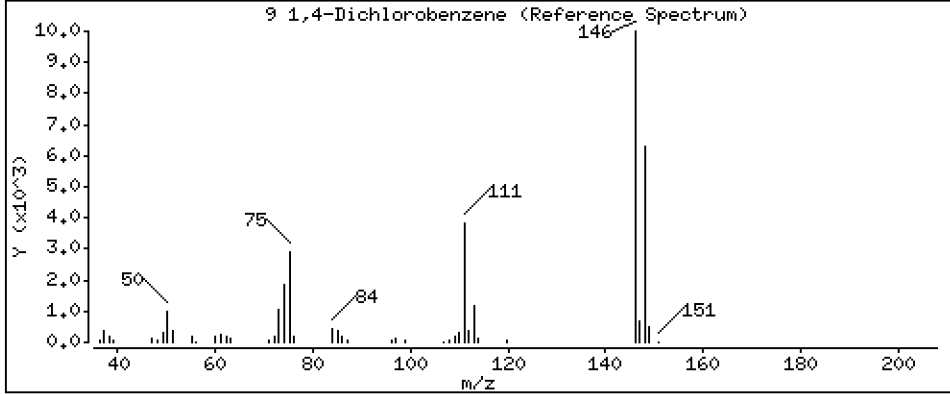
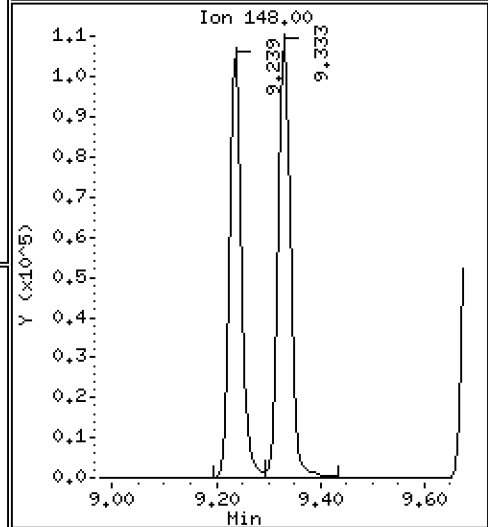
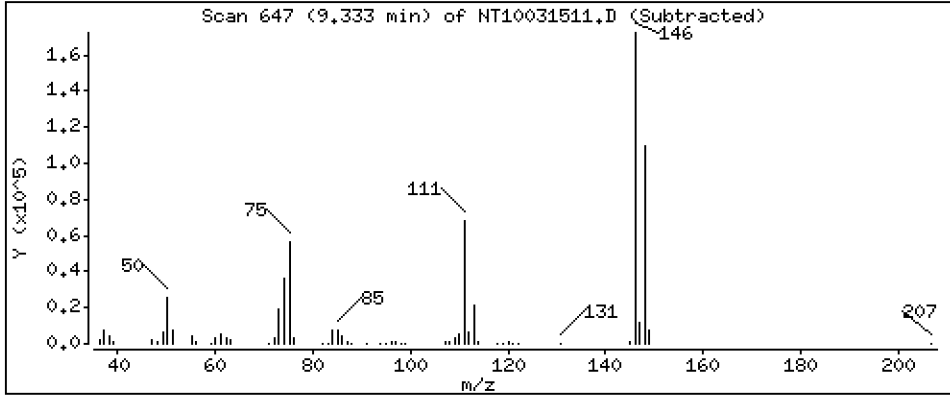
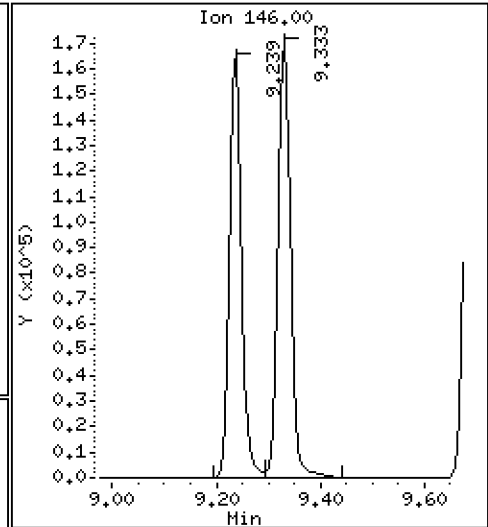
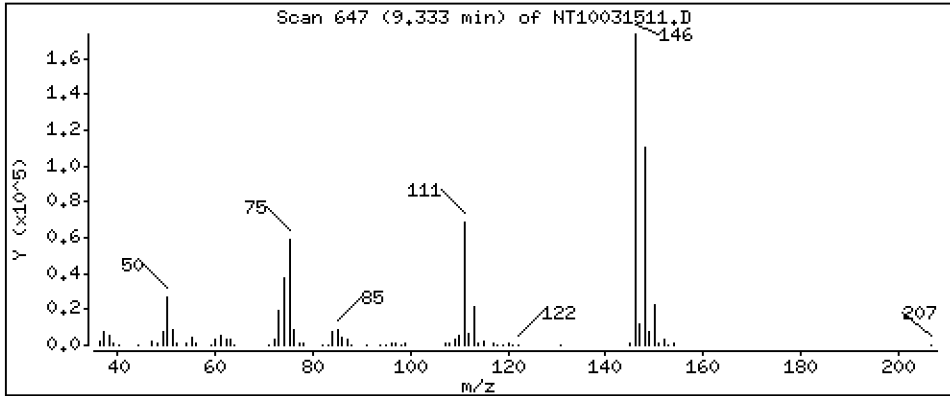
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,913 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

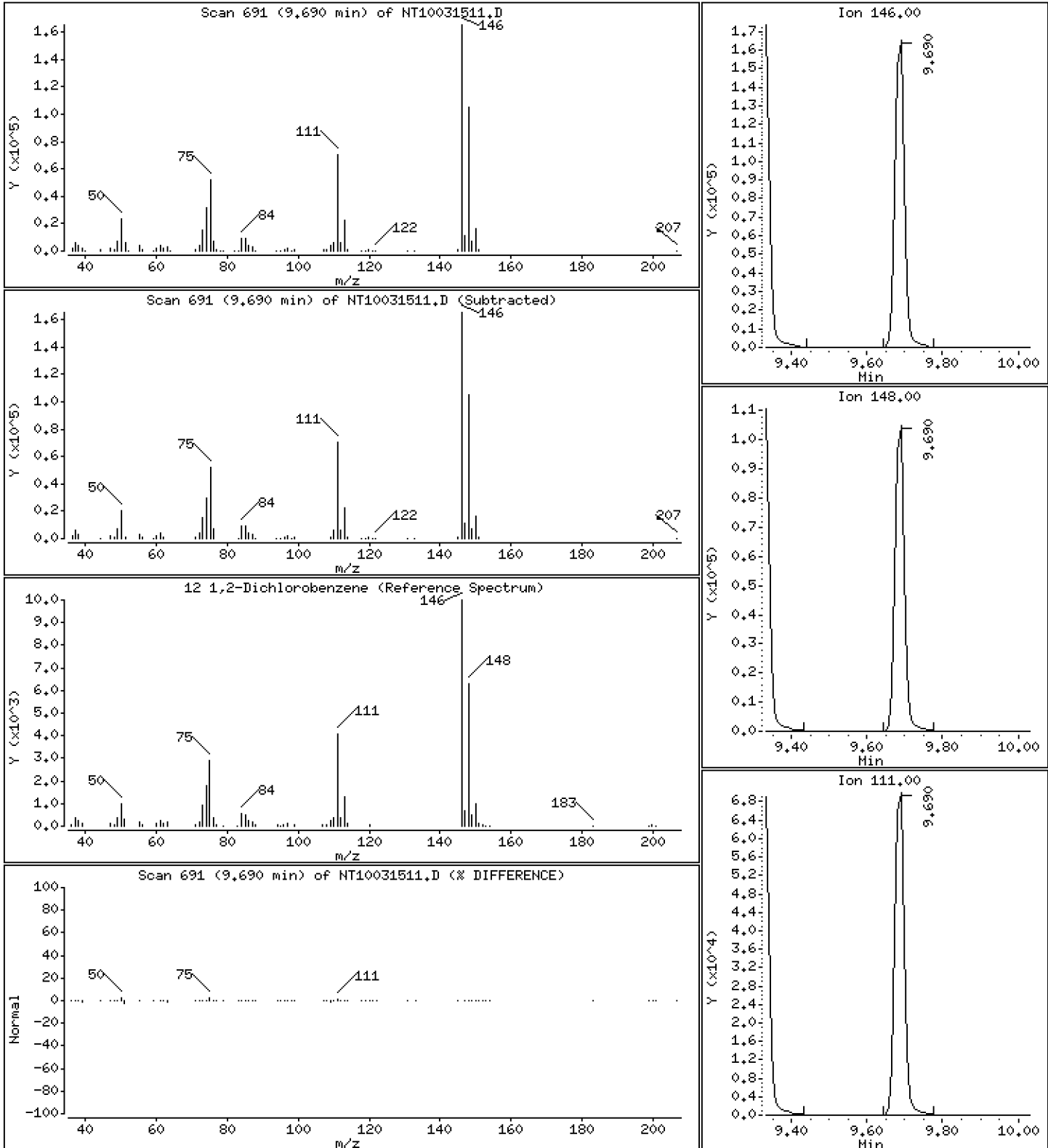
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,882 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

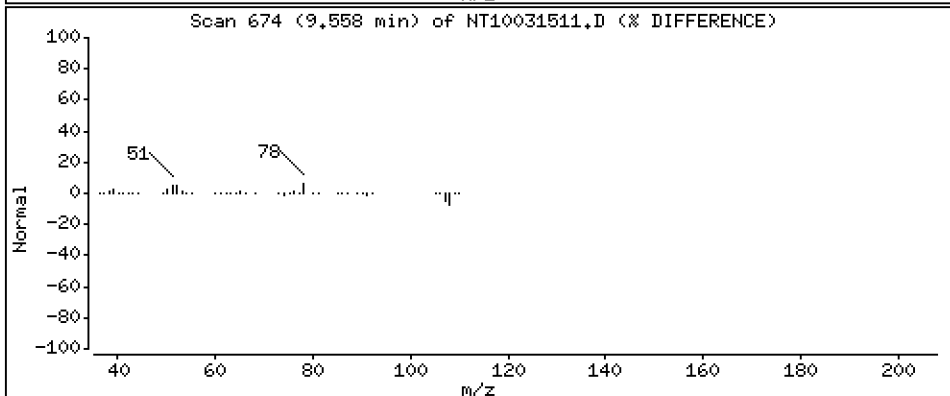
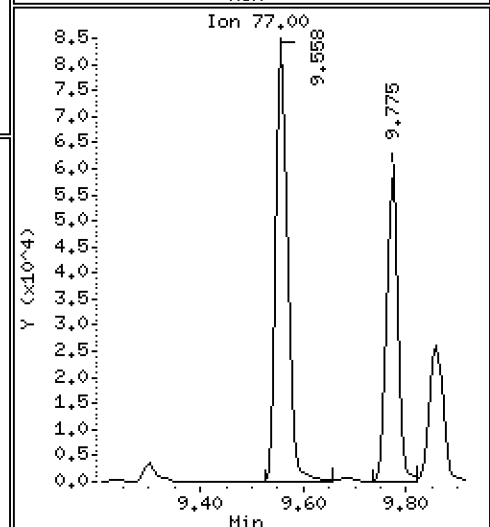
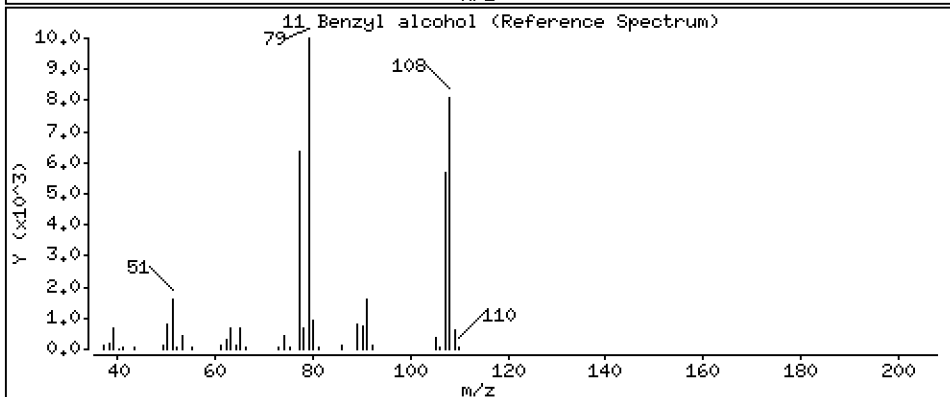
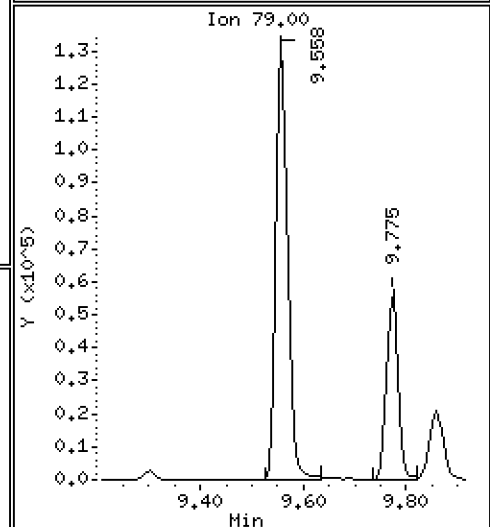
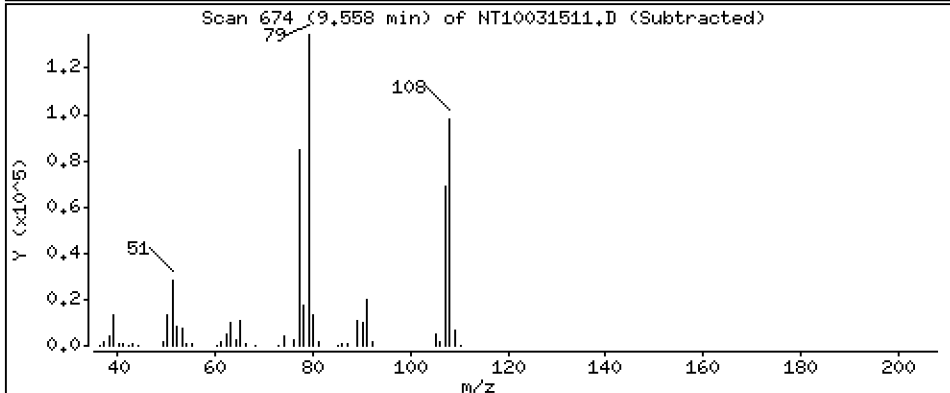
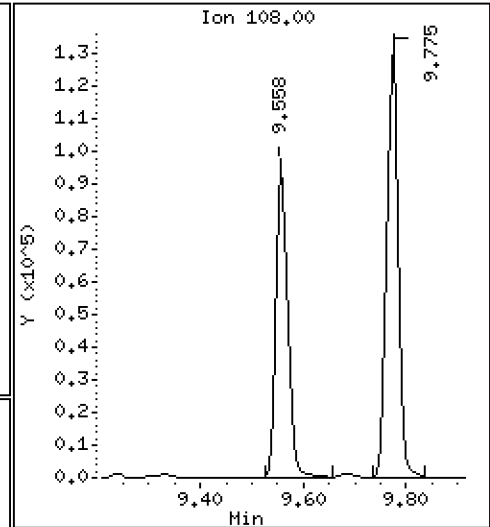
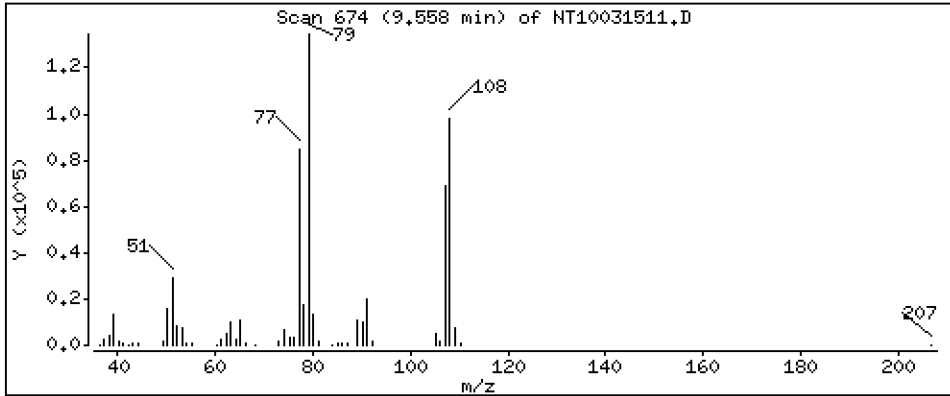
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.927 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

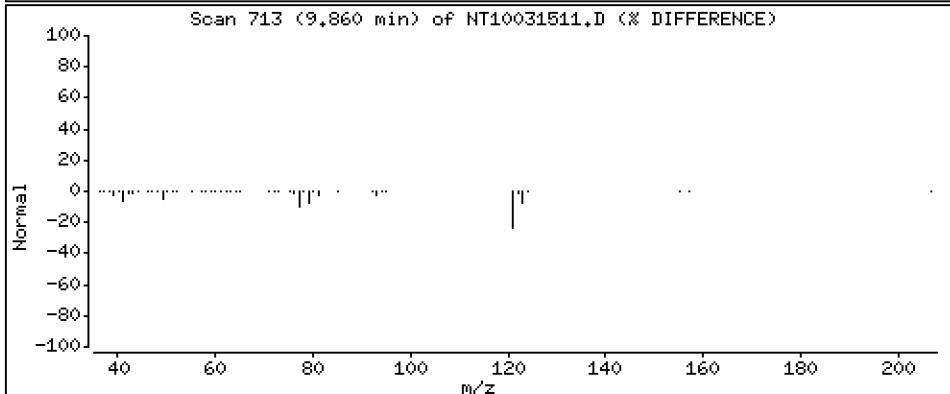
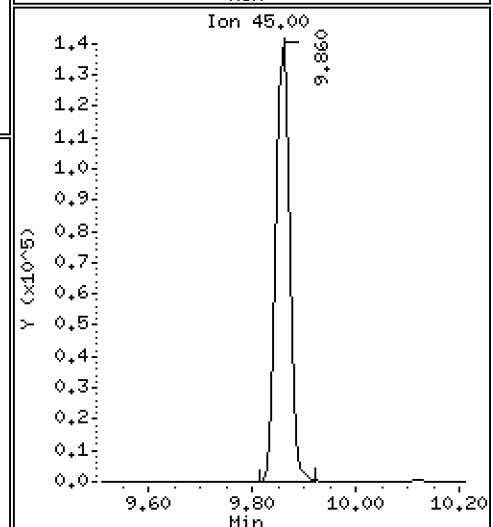
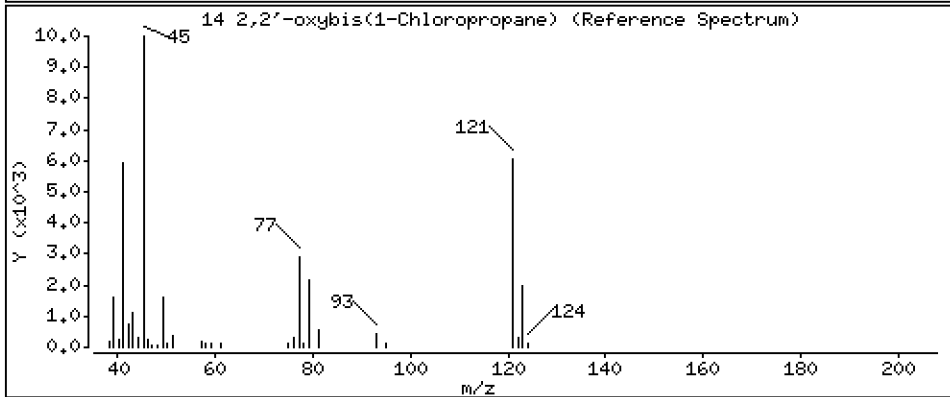
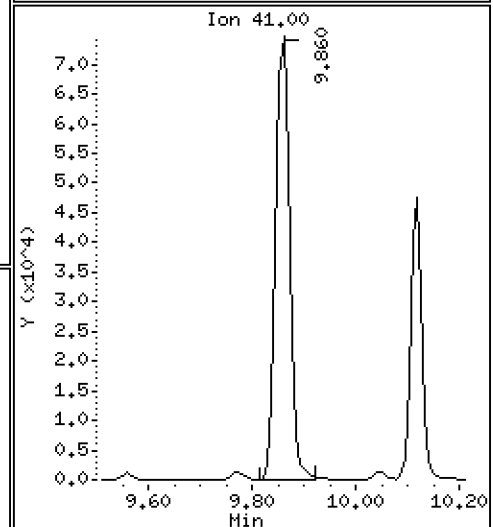
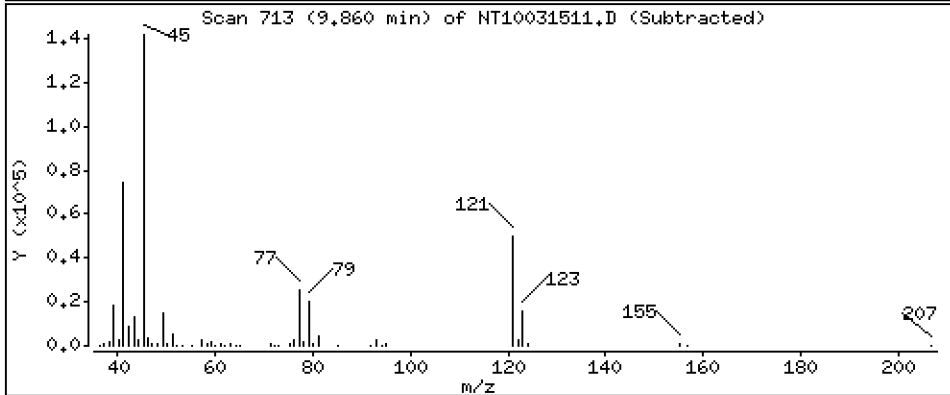
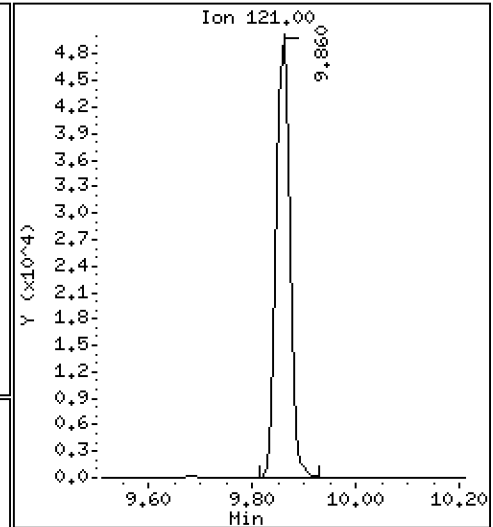
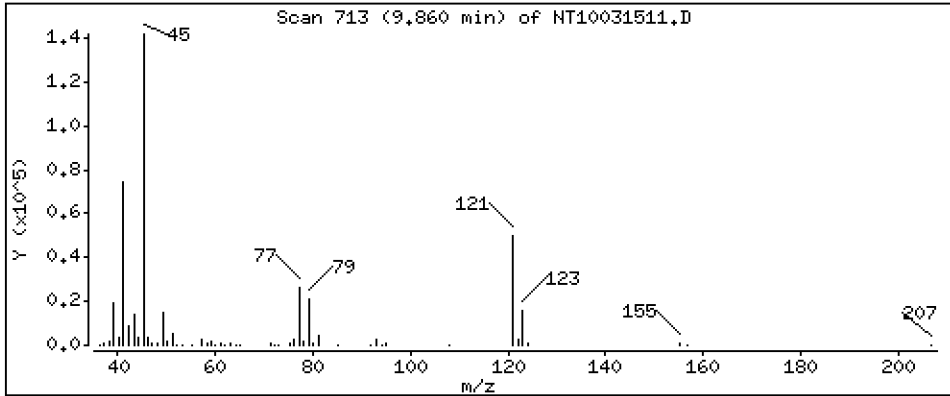
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 6,214 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

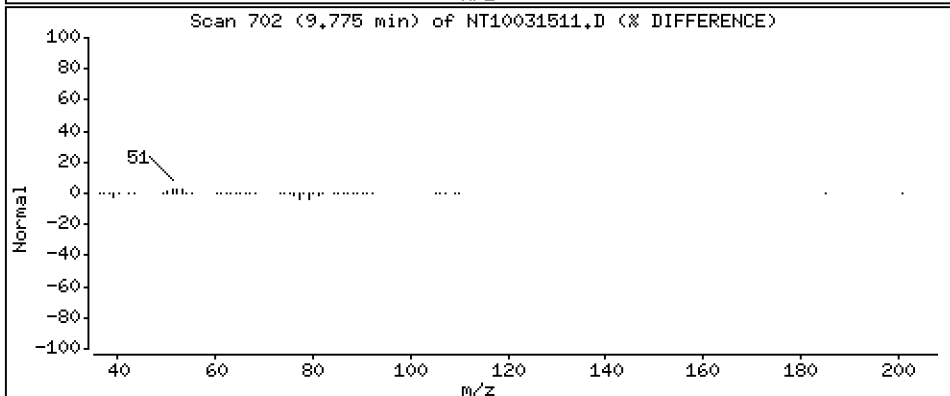
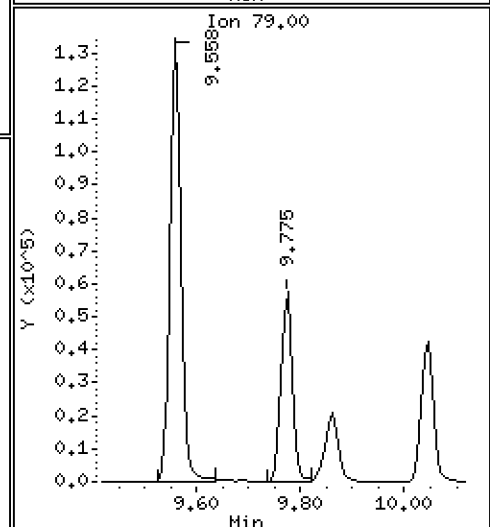
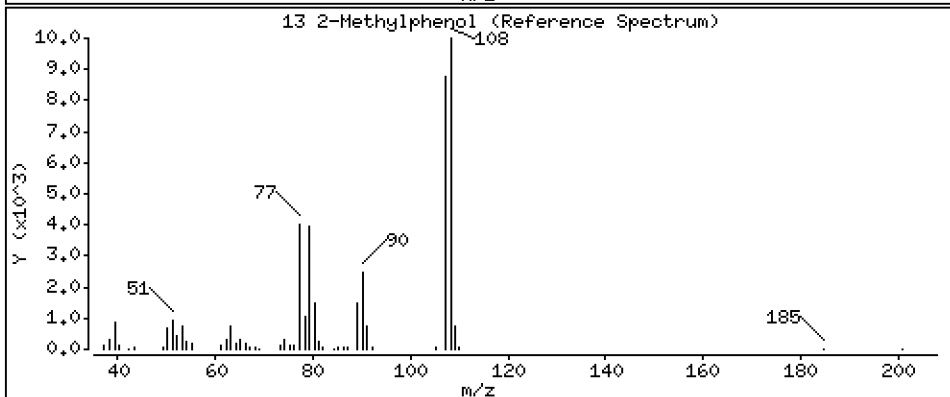
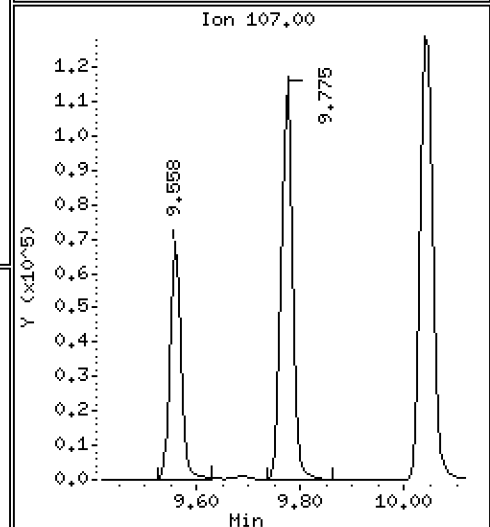
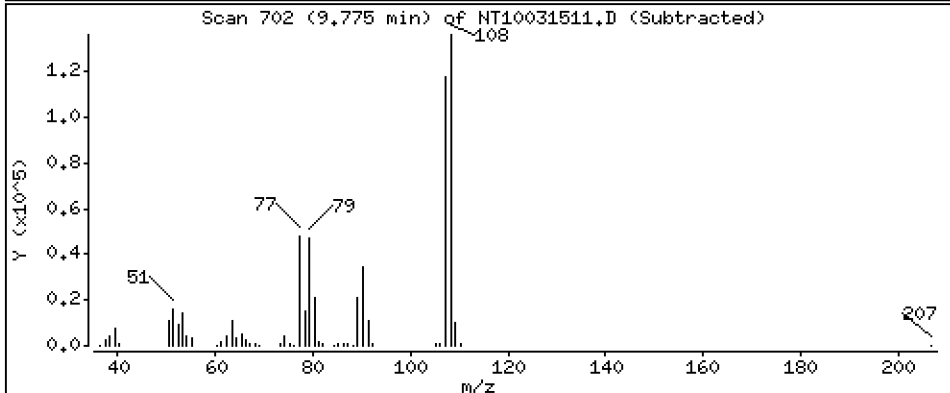
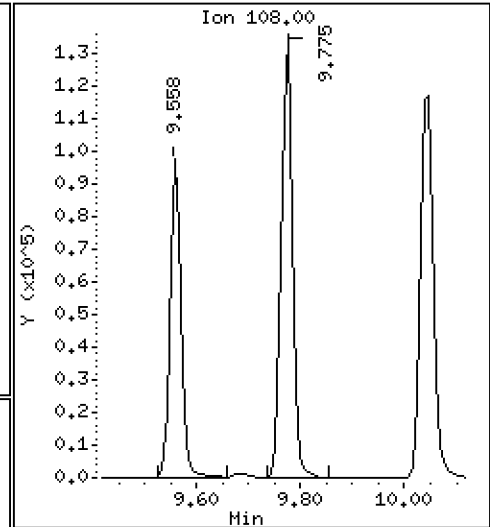
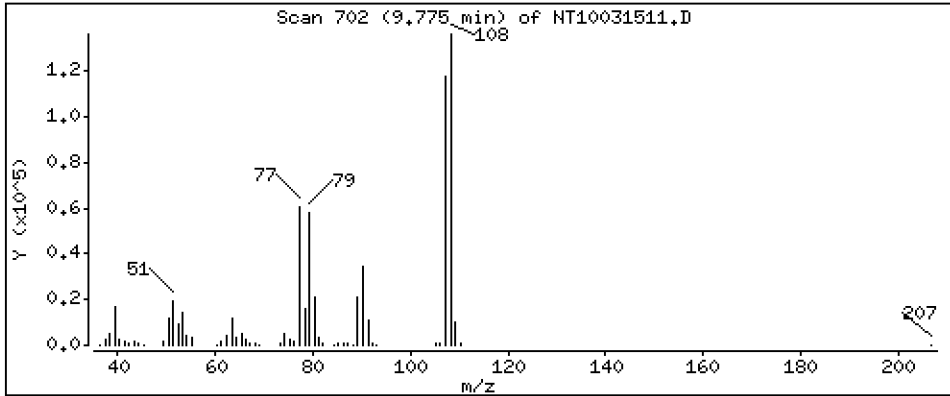
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.215 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

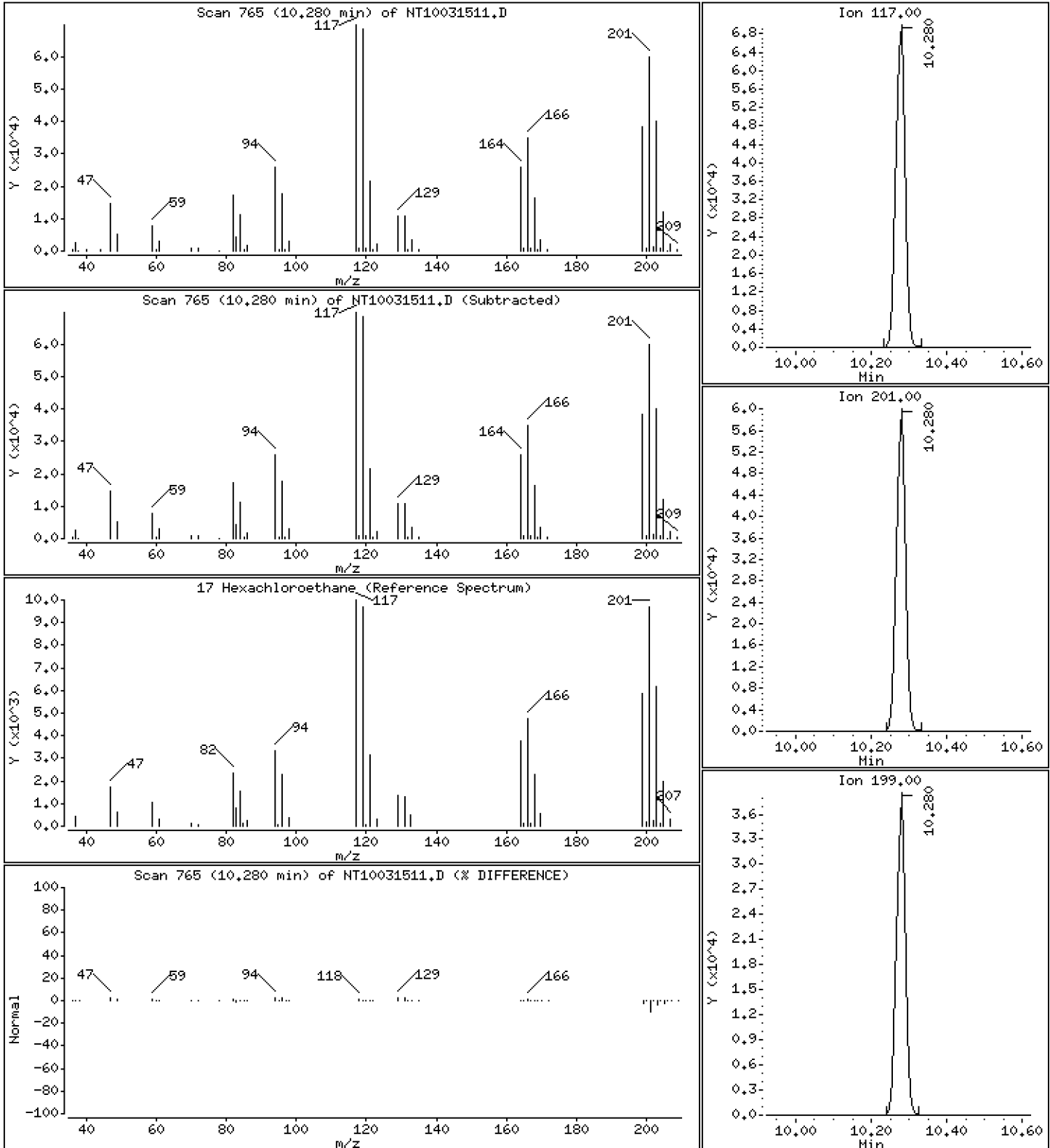
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 5,003 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

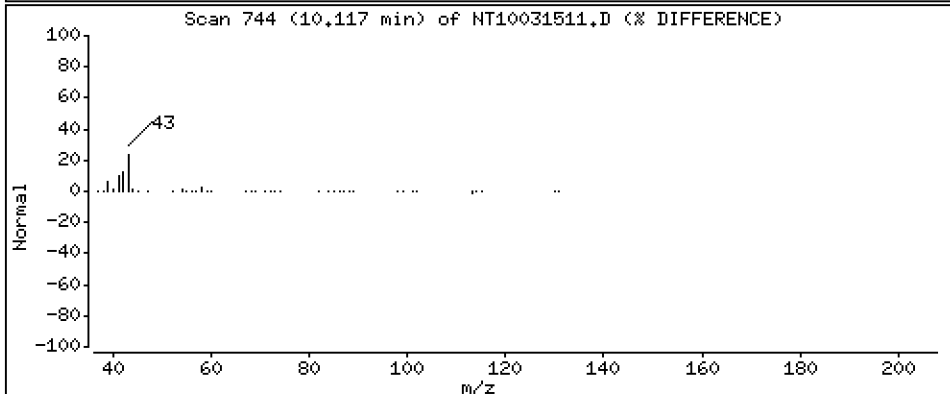
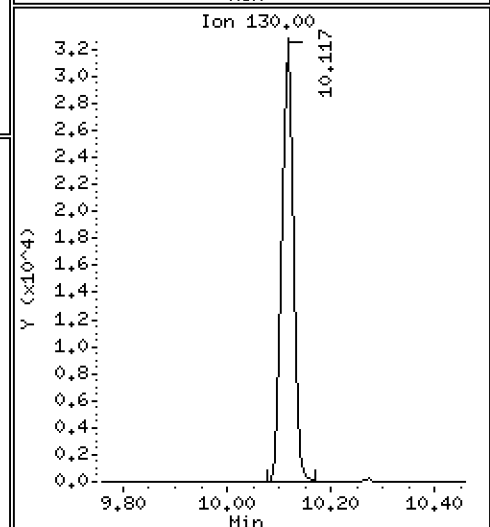
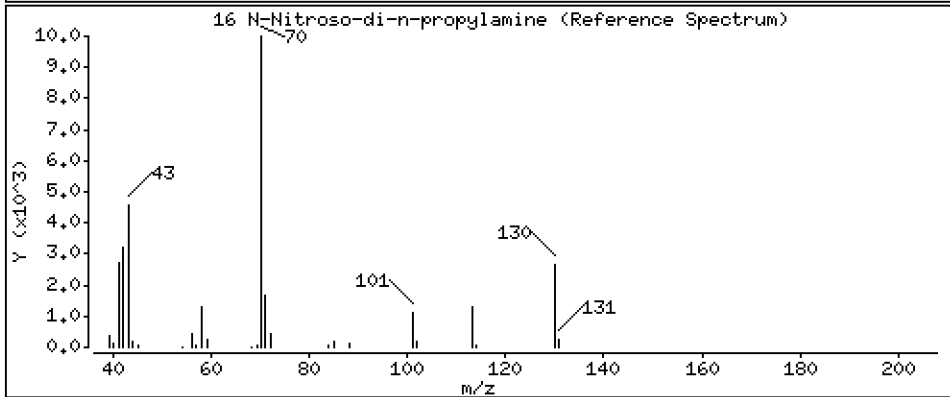
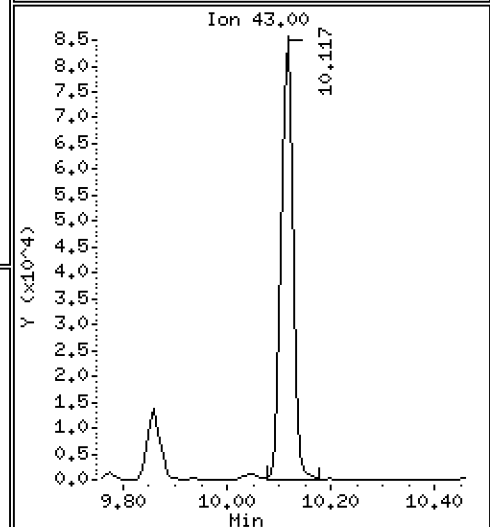
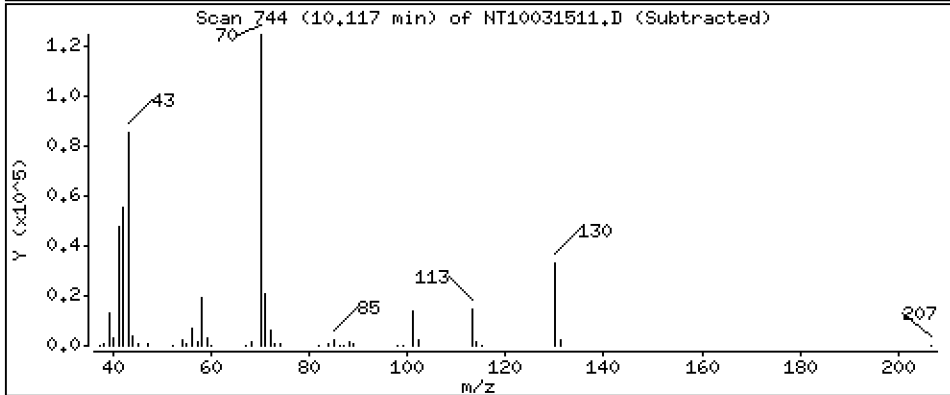
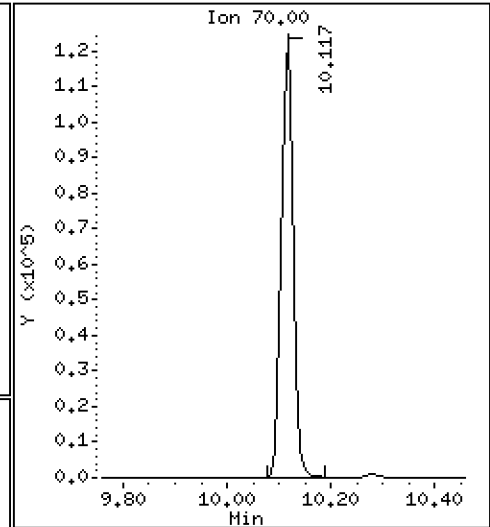
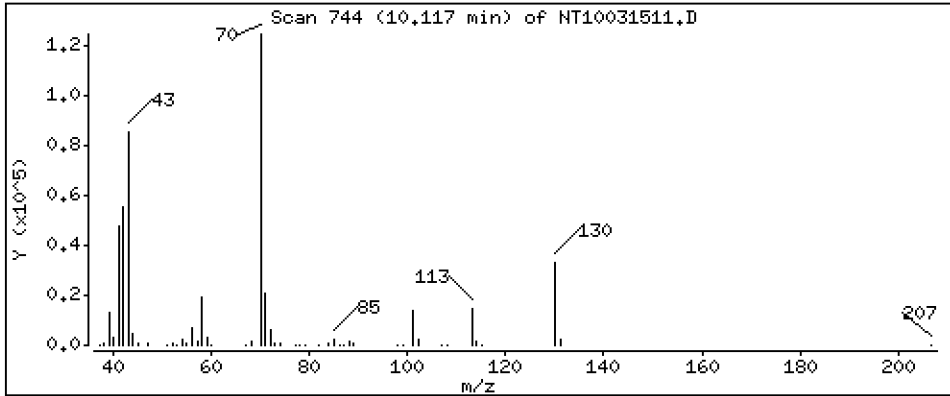
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,179 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

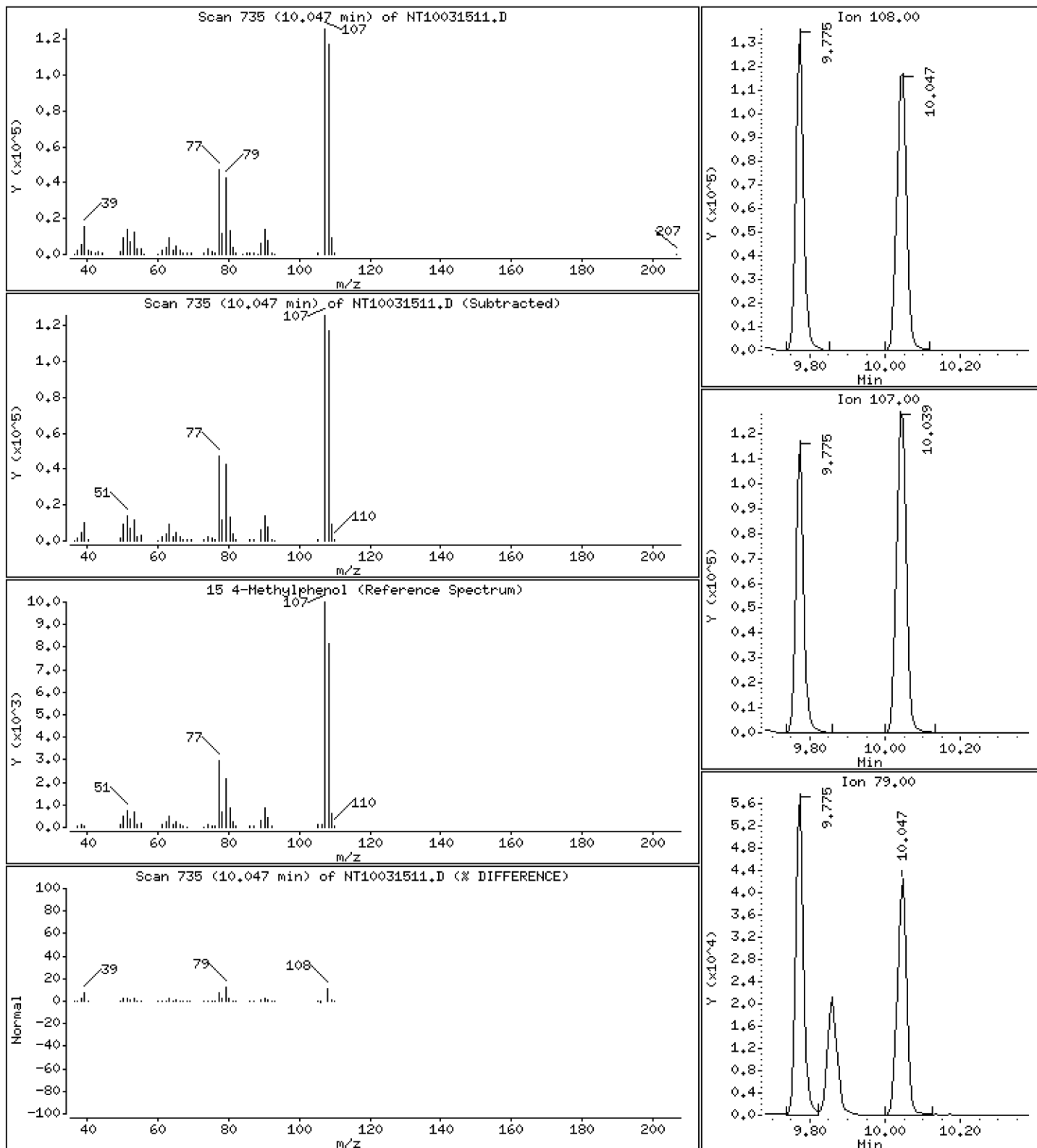
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,365 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

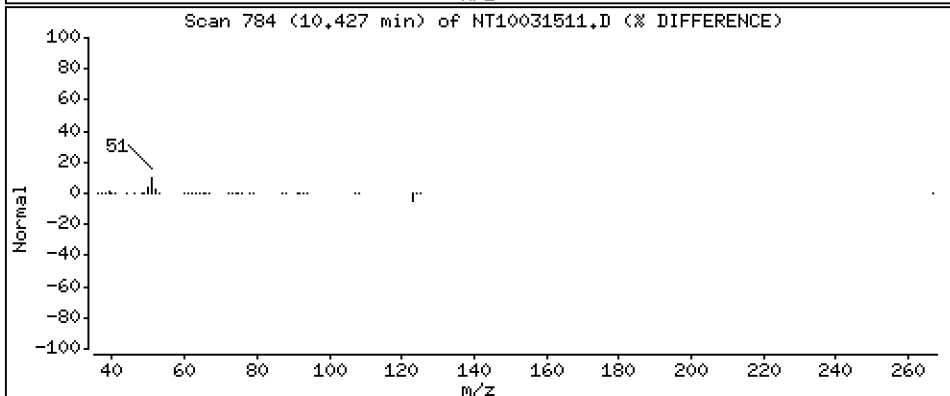
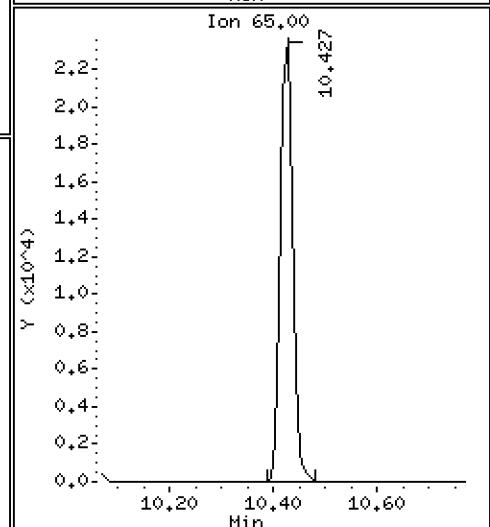
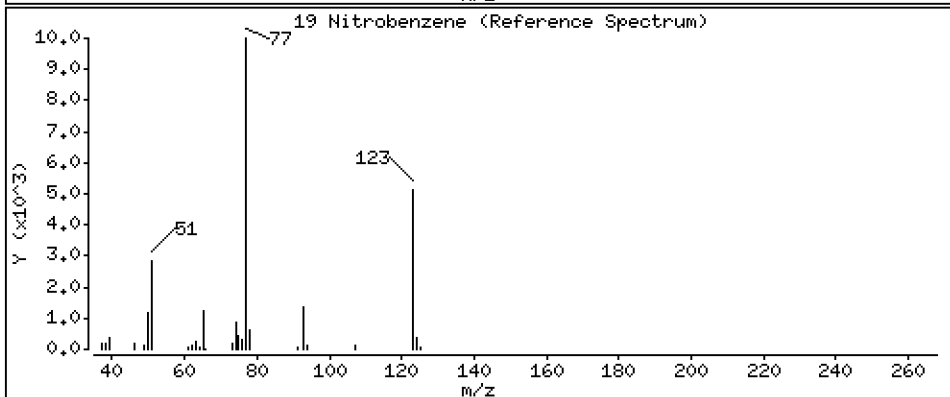
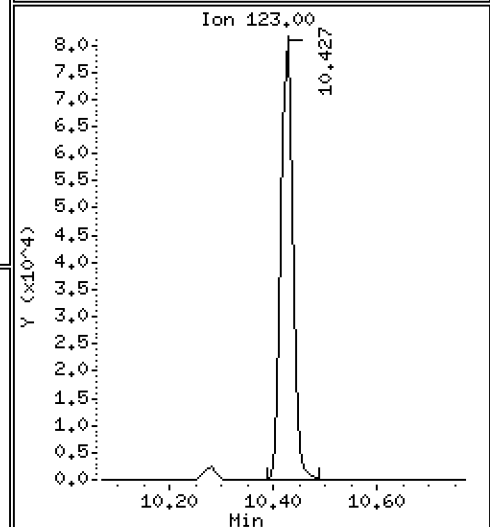
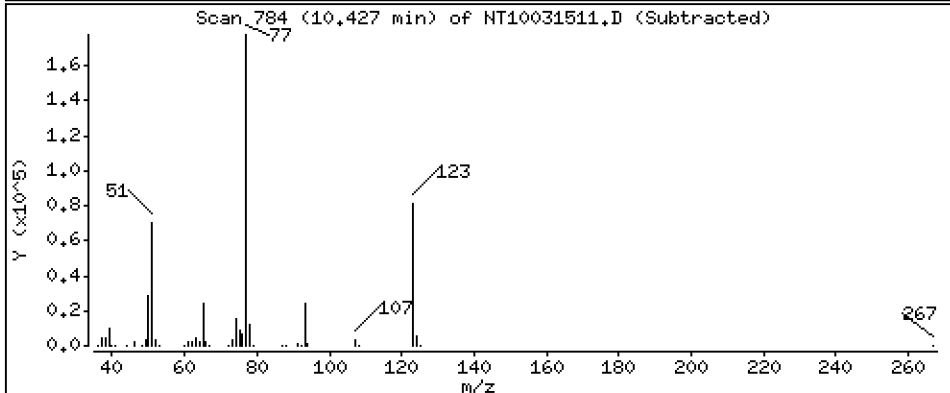
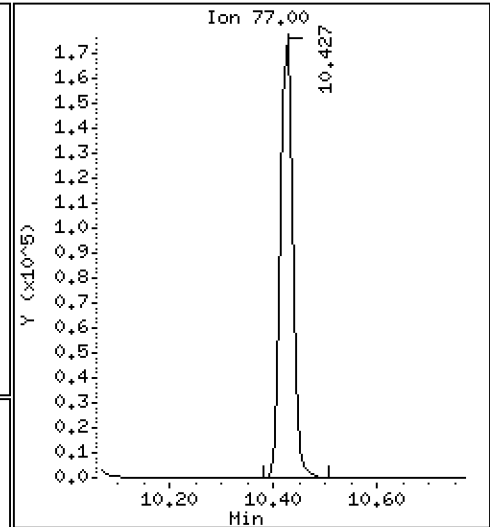
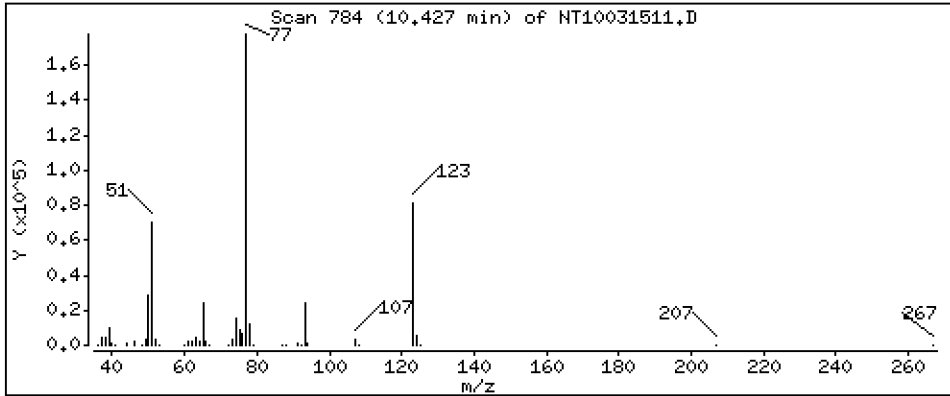
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,858 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

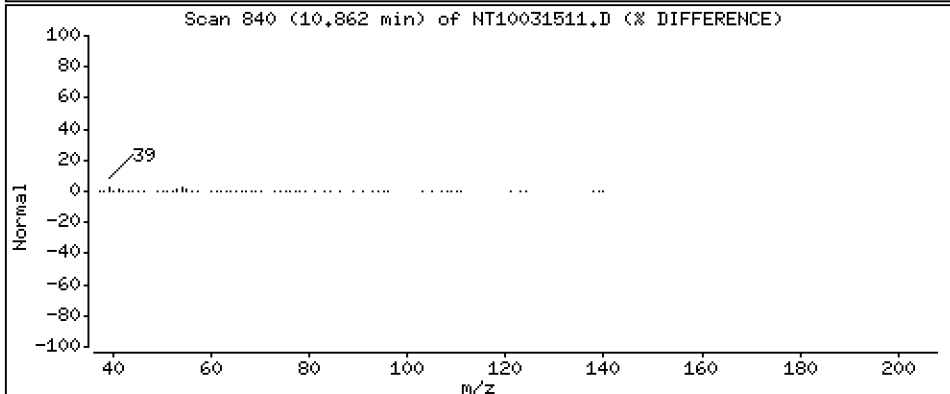
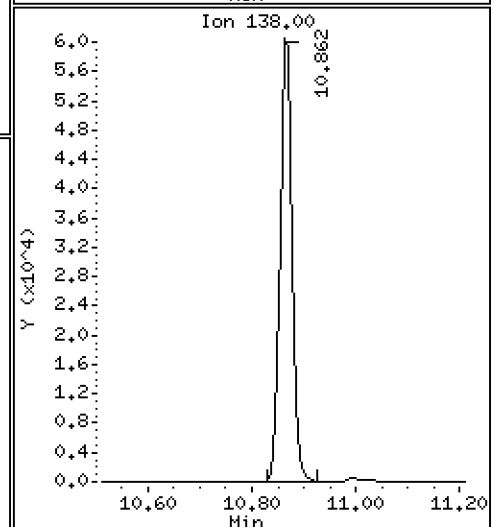
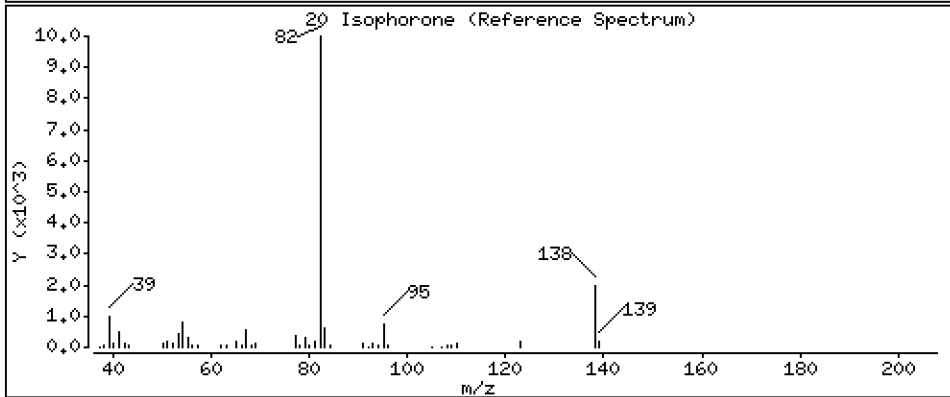
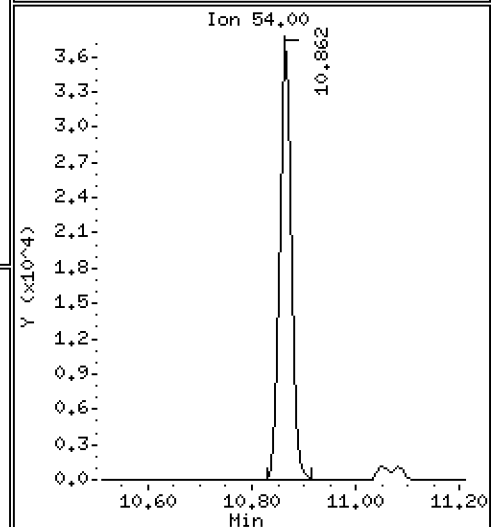
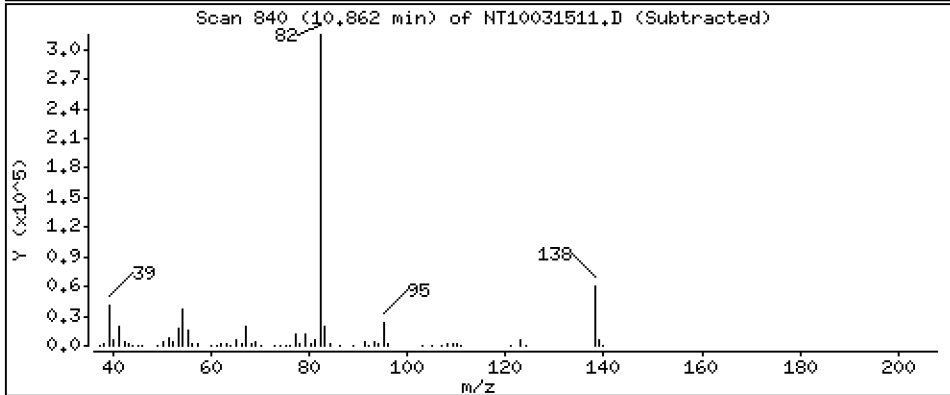
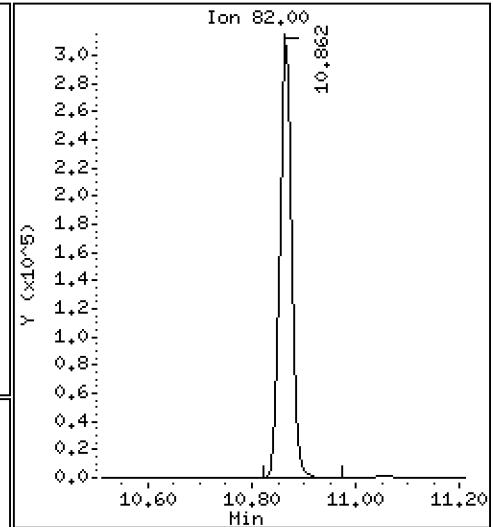
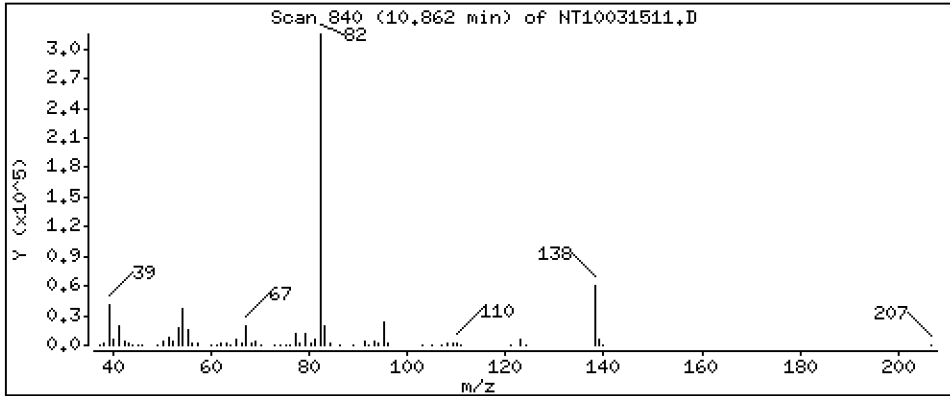
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 7,696 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

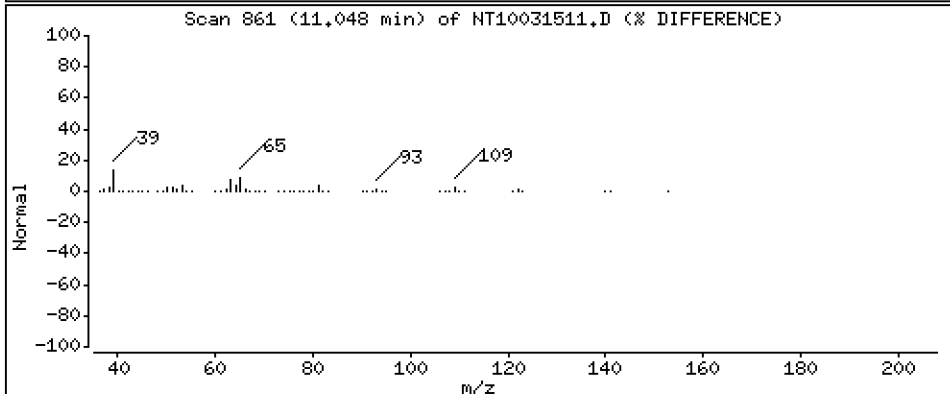
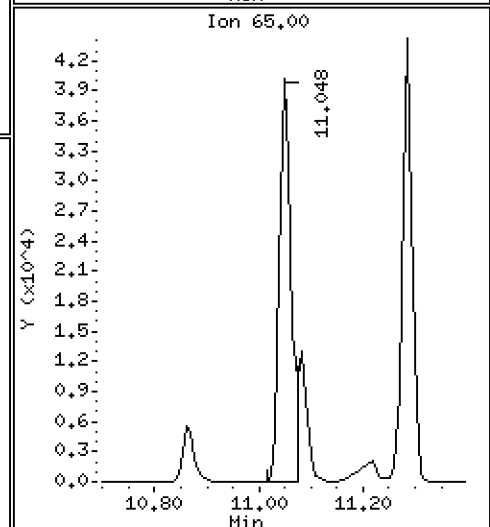
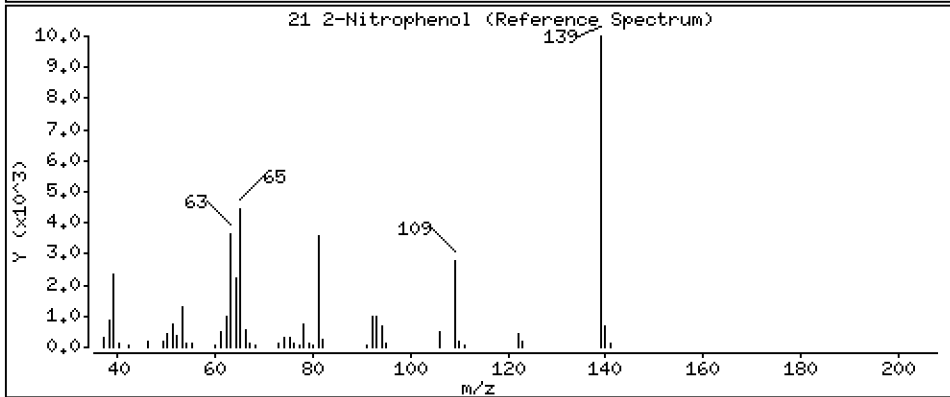
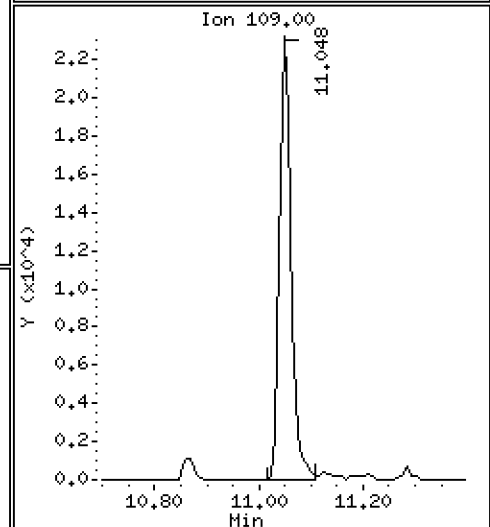
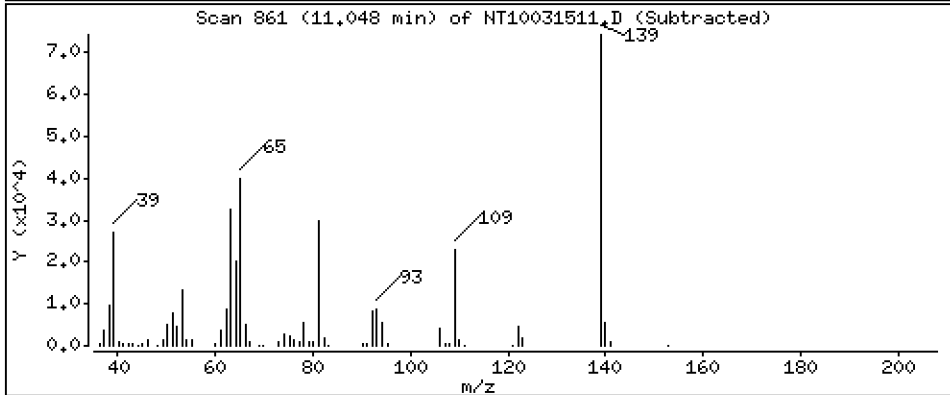
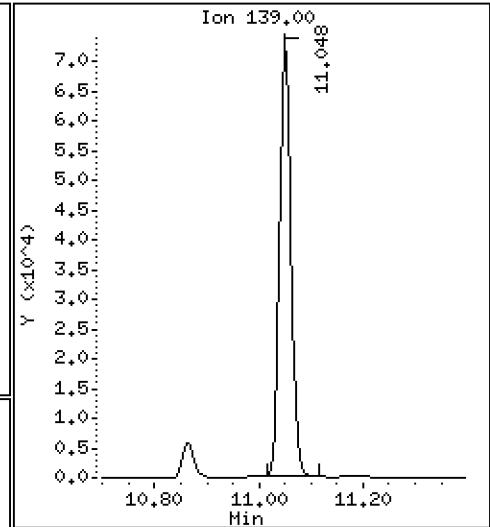
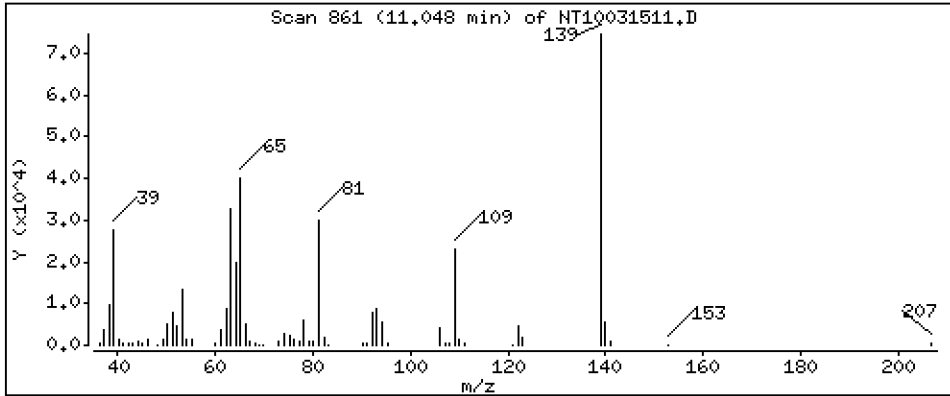
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 3,995 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

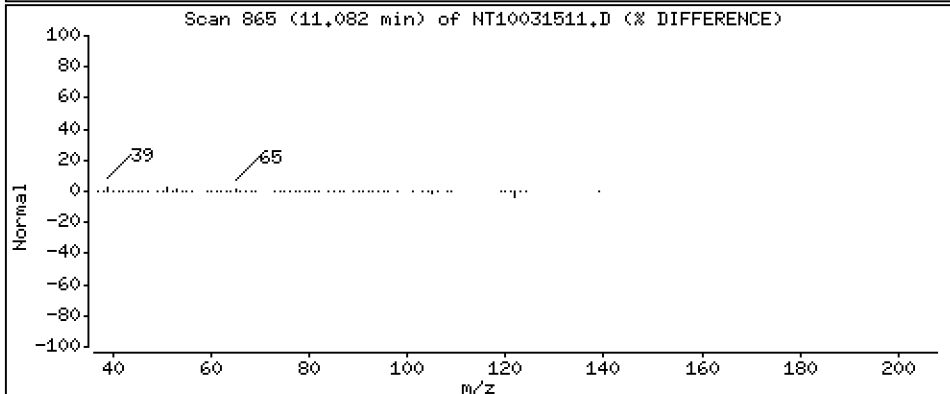
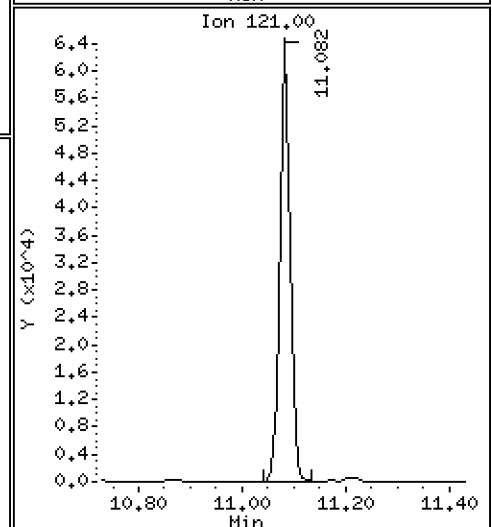
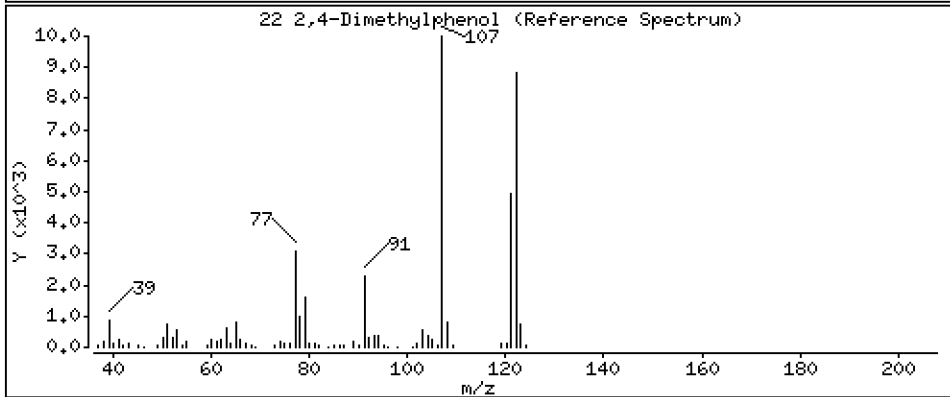
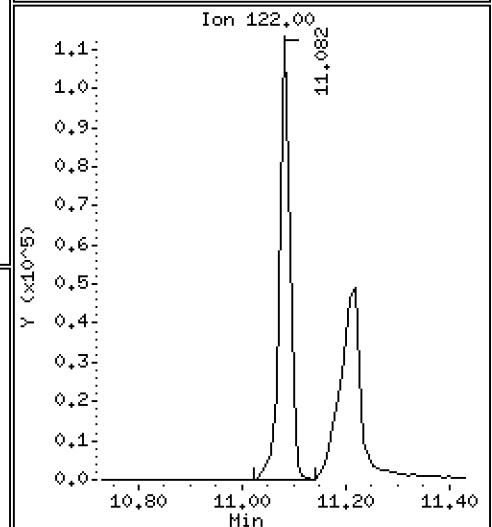
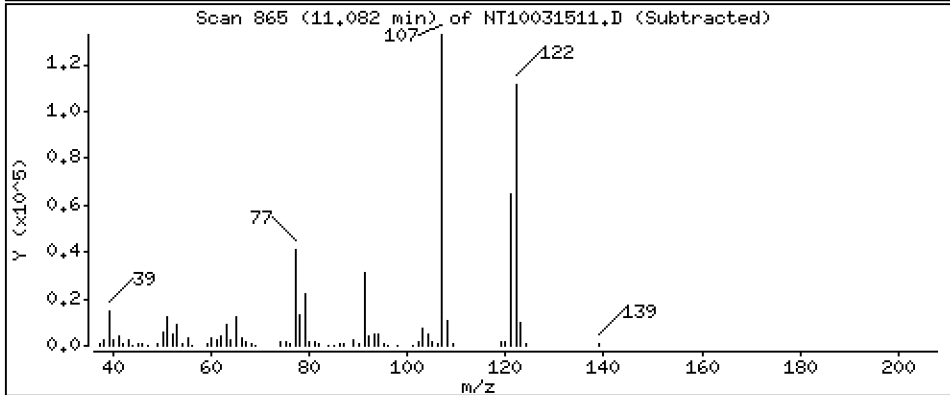
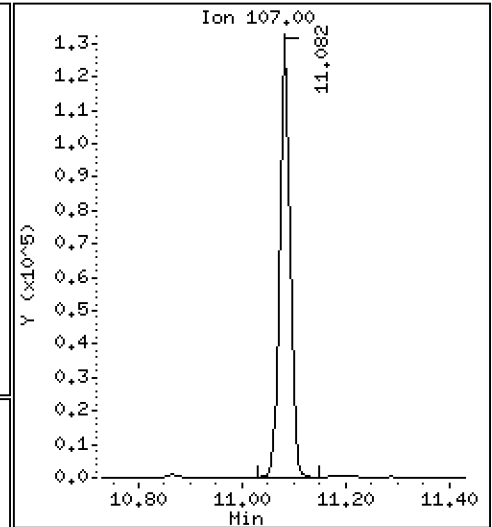
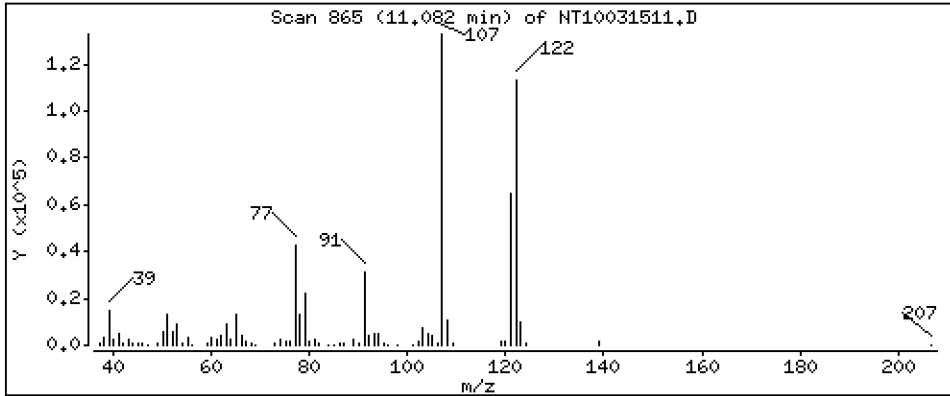
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 3,632 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

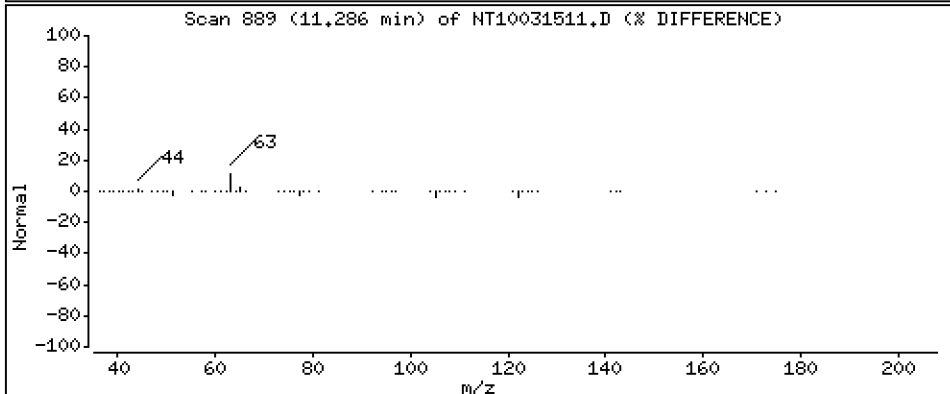
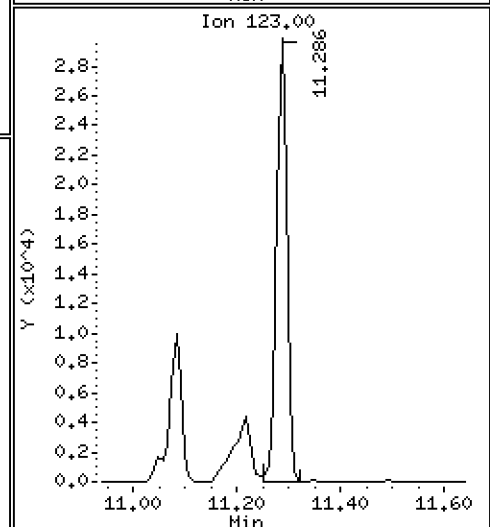
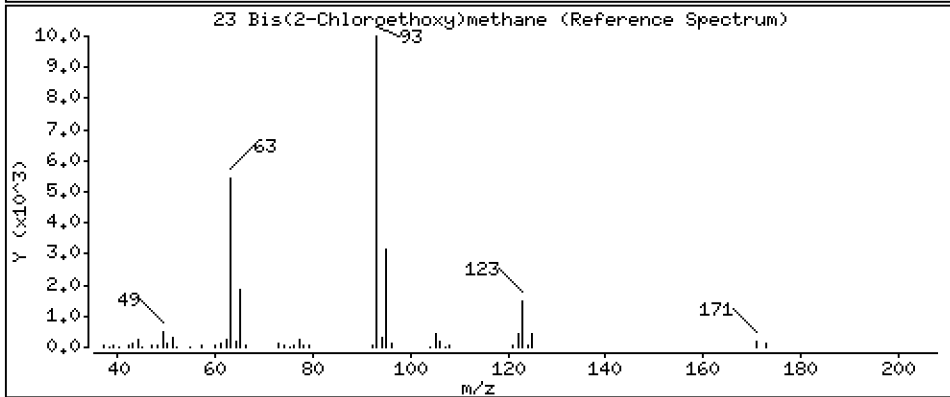
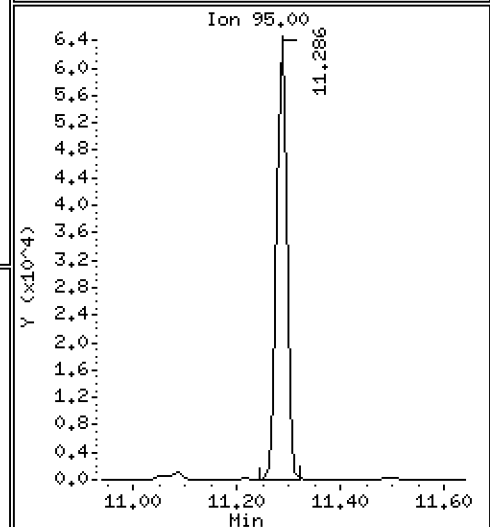
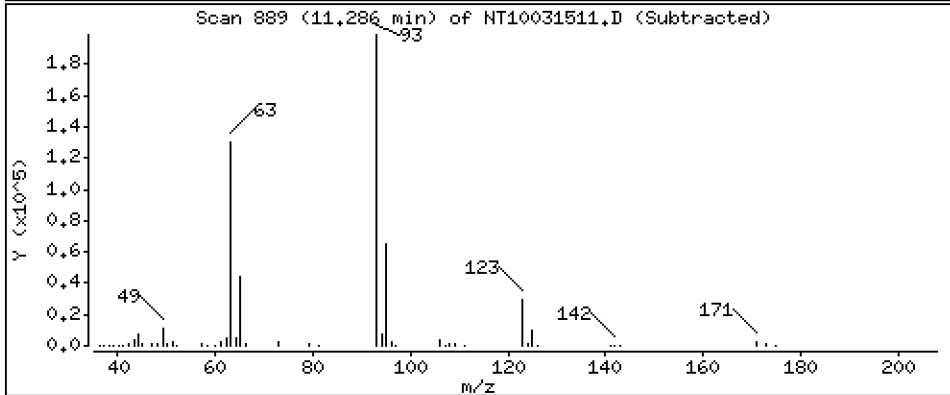
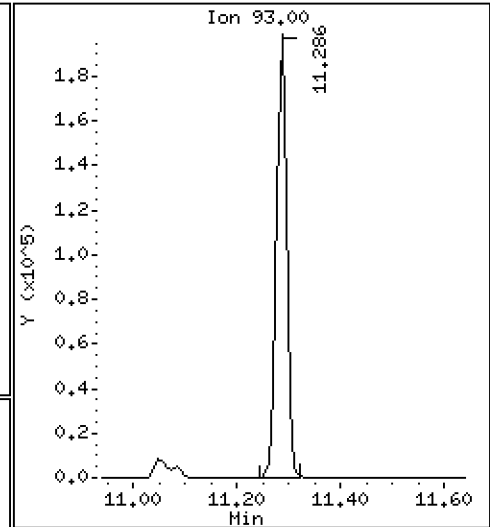
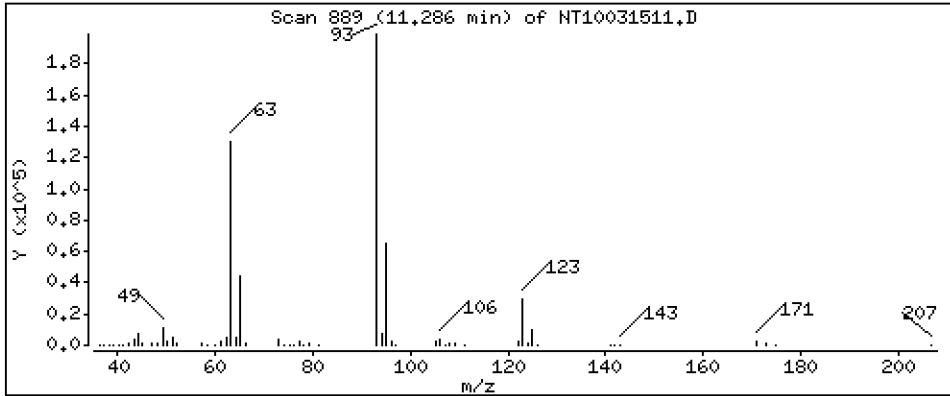
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,654 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

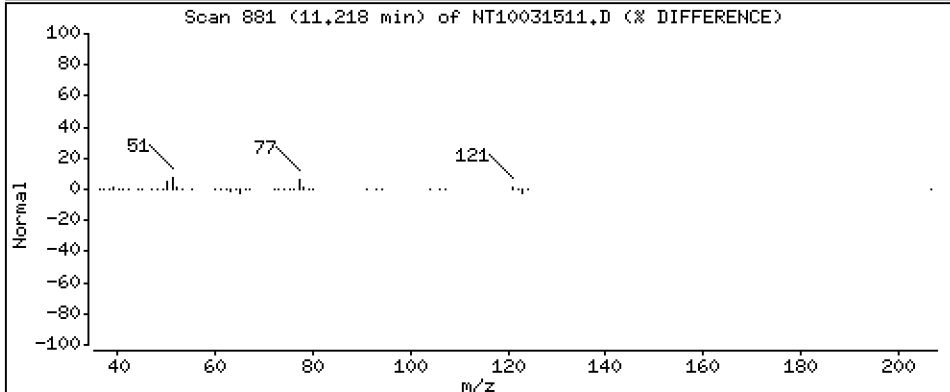
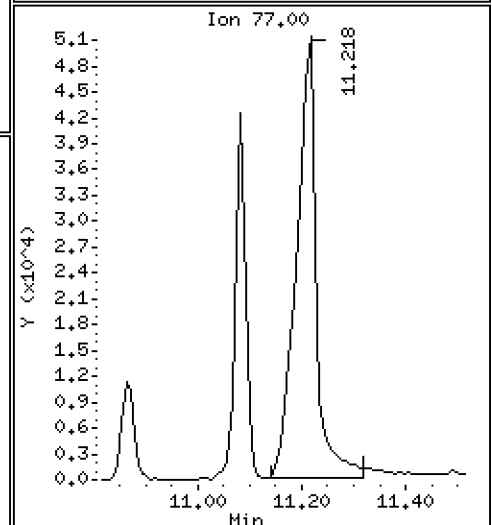
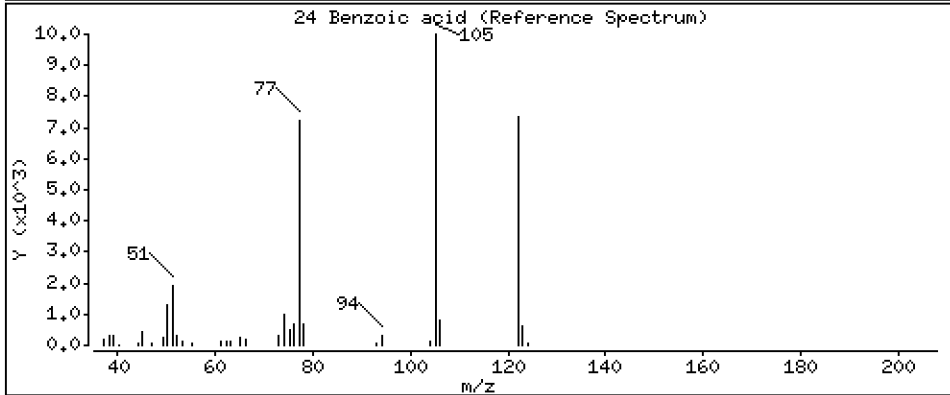
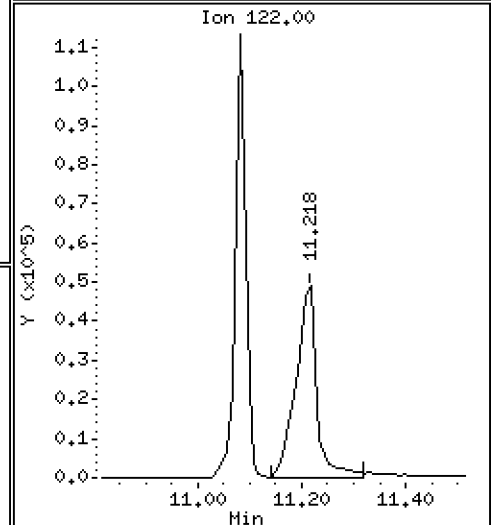
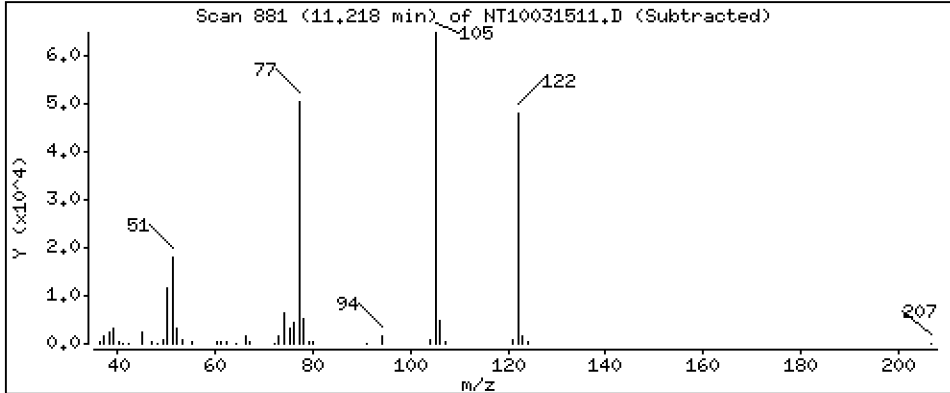
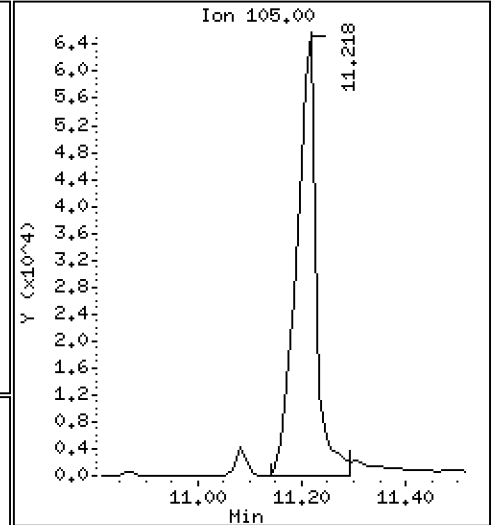
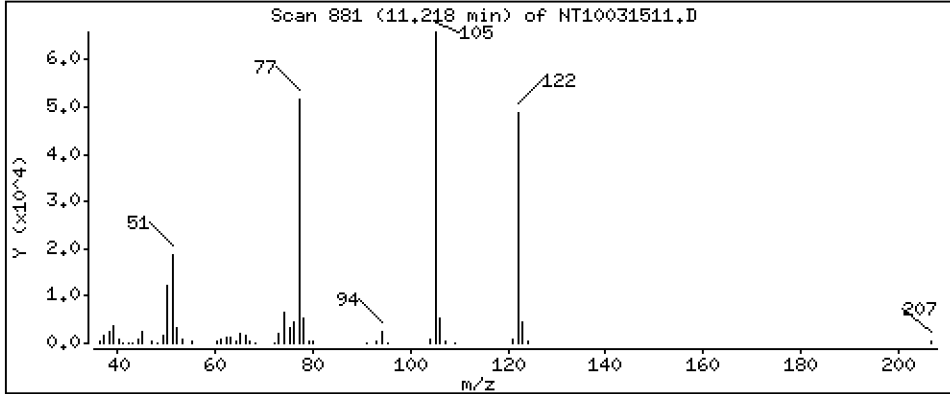
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 5,952 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

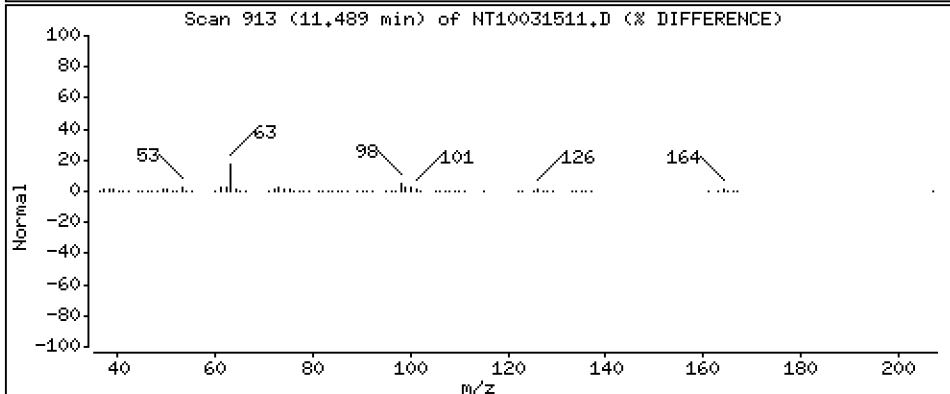
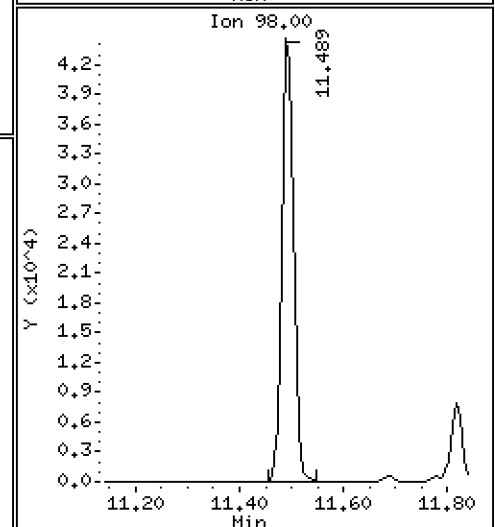
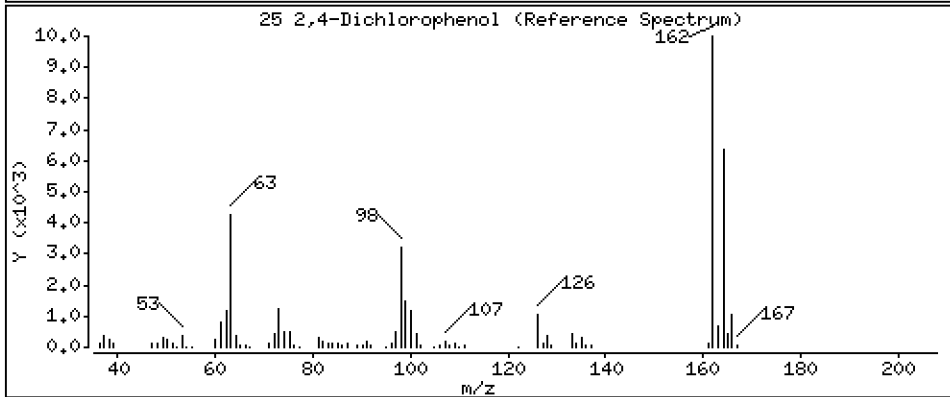
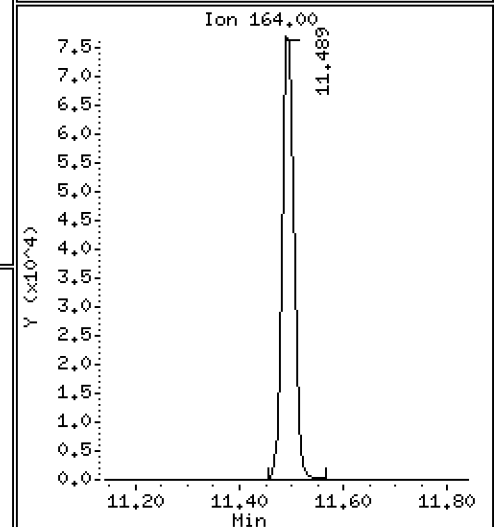
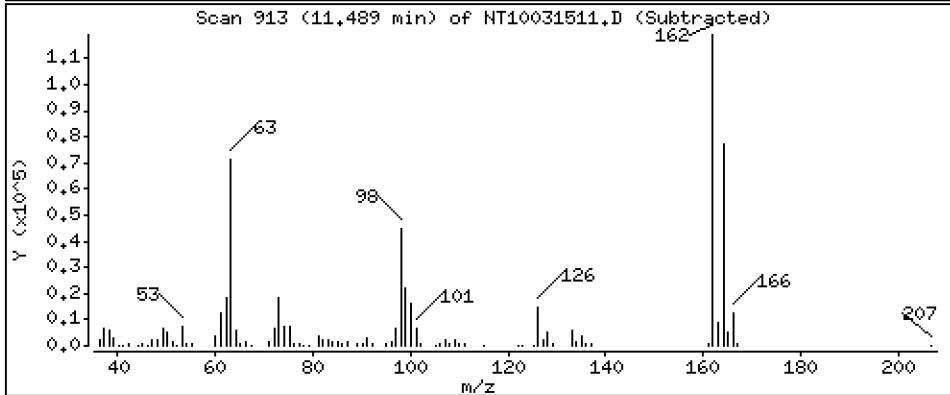
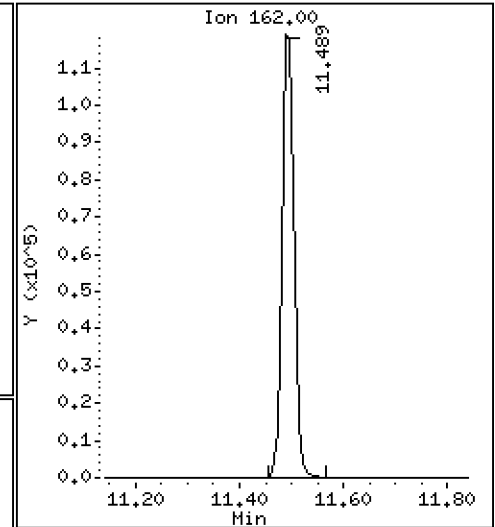
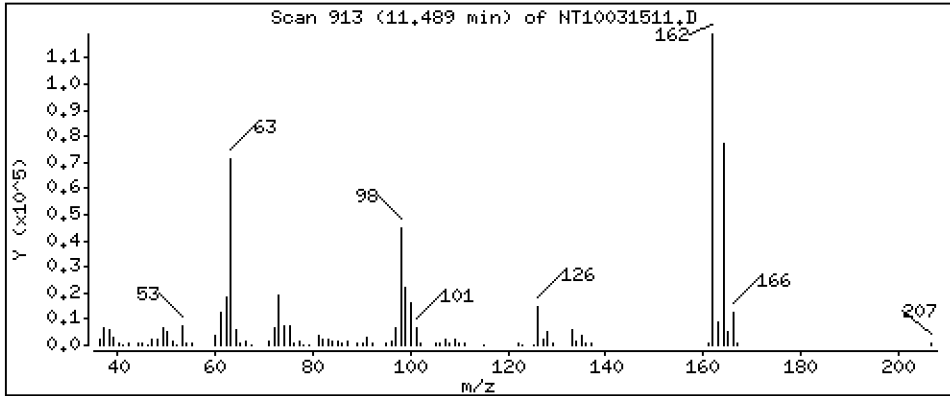
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 4,703 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

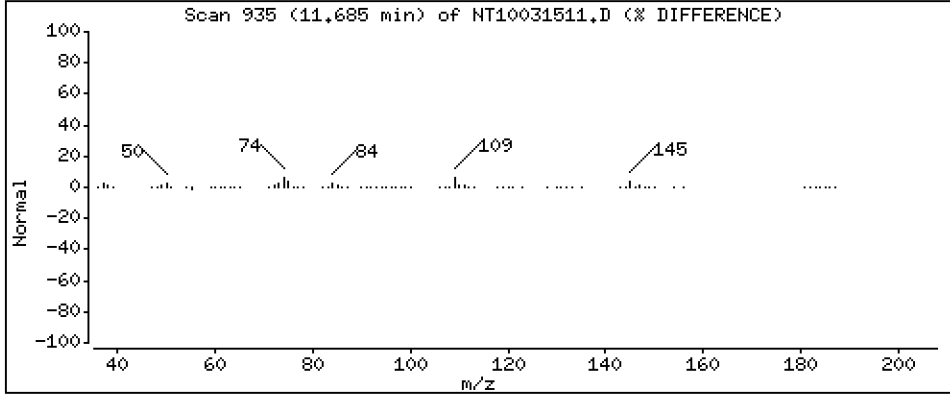
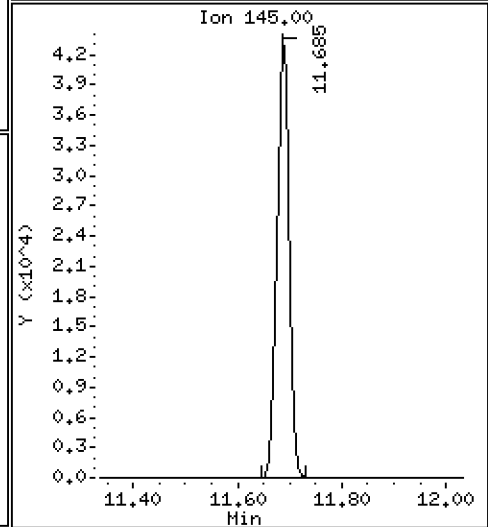
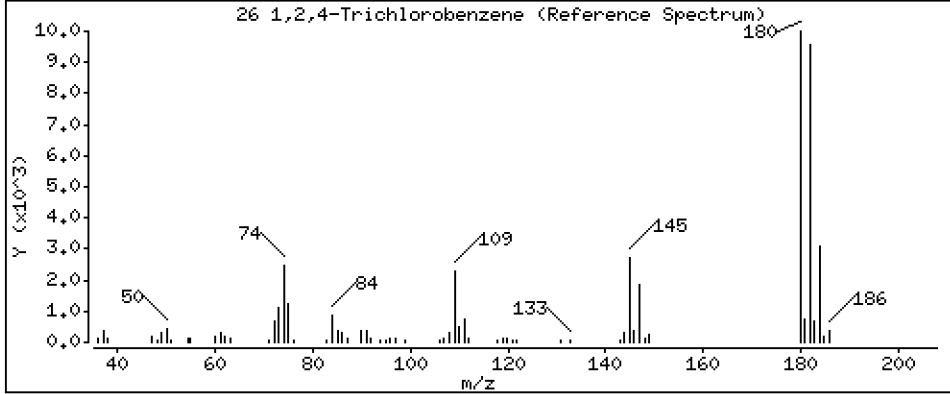
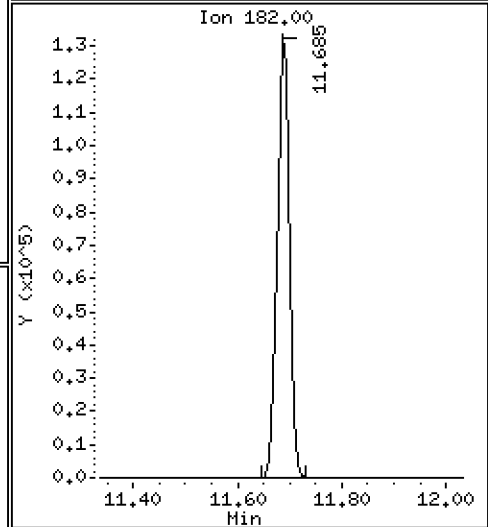
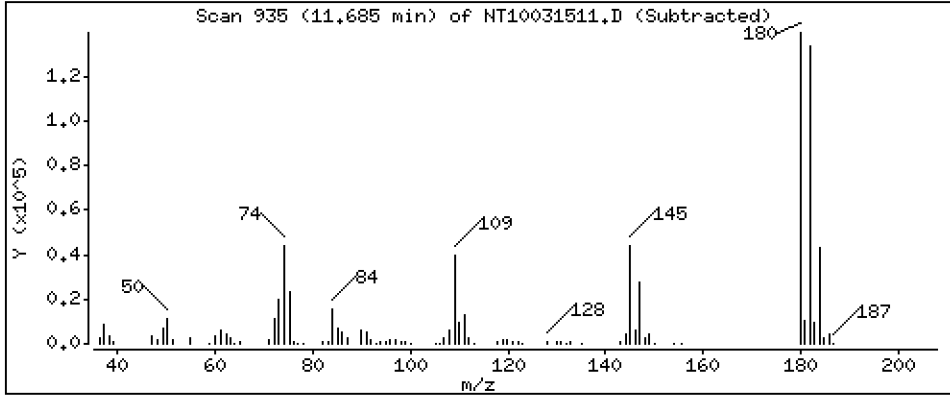
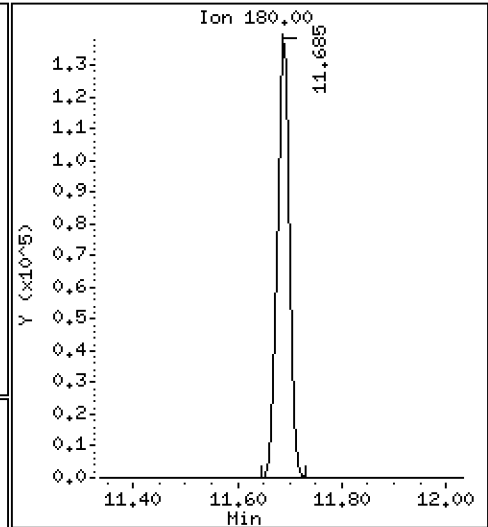
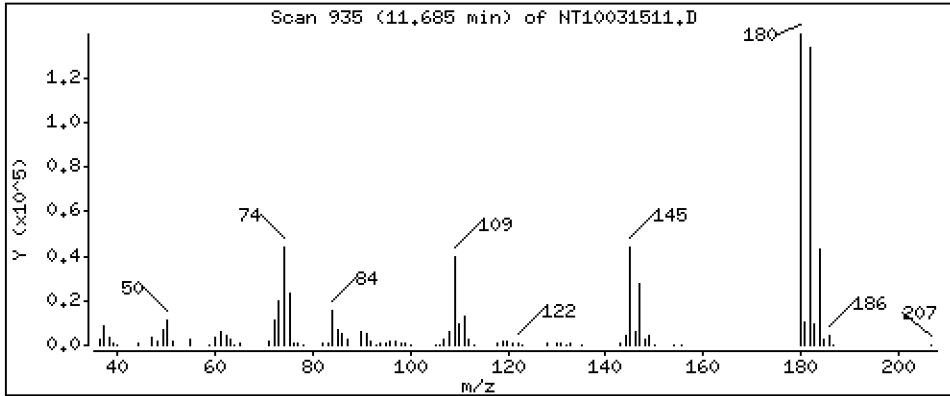
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,554 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

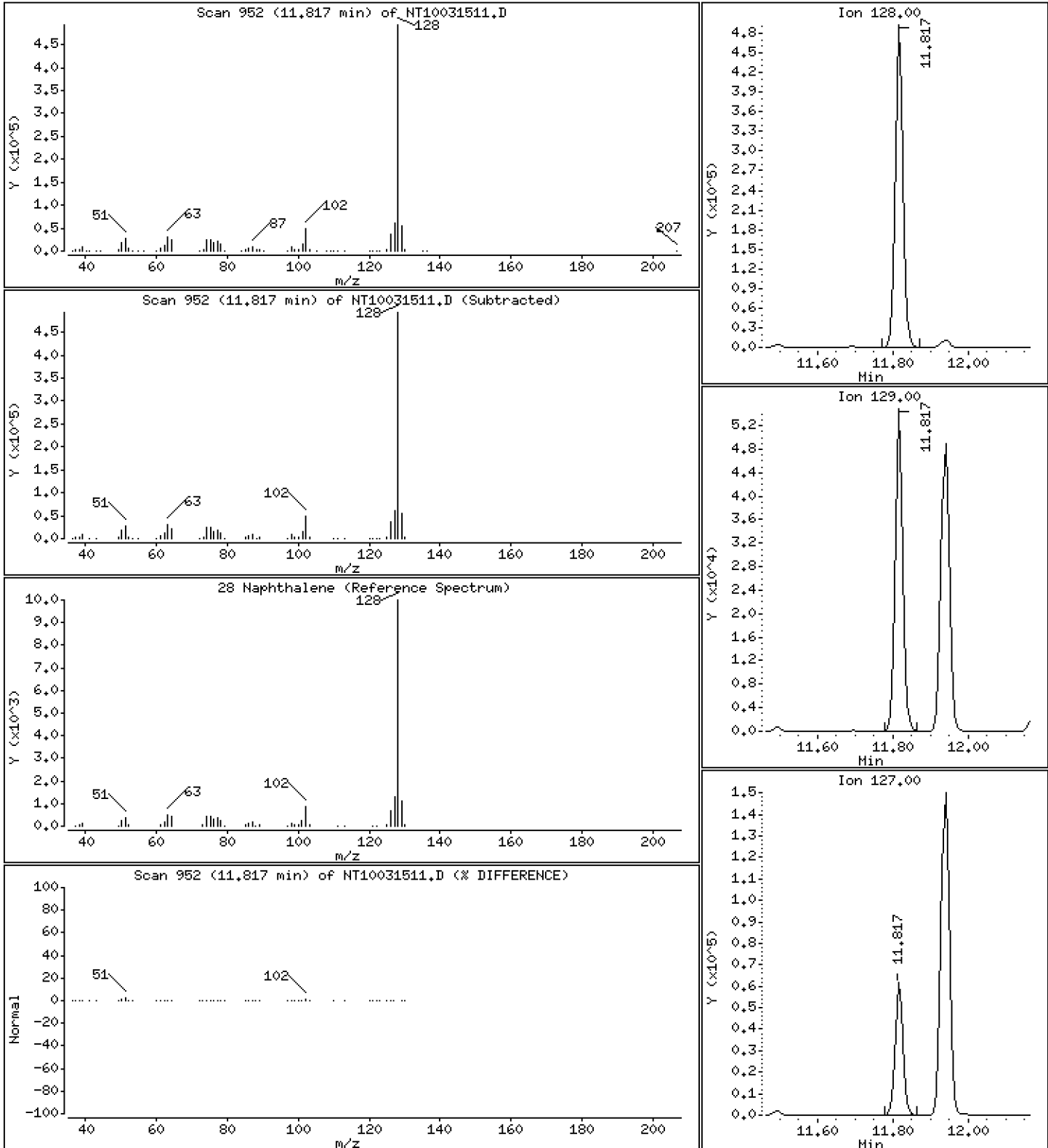
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,717 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

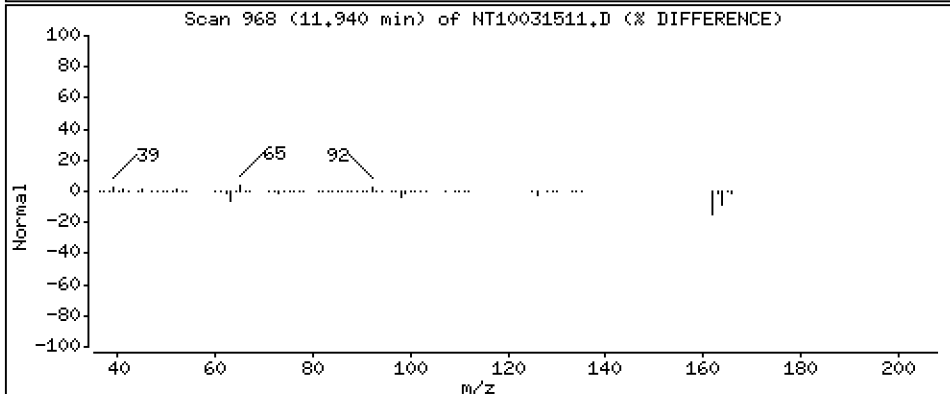
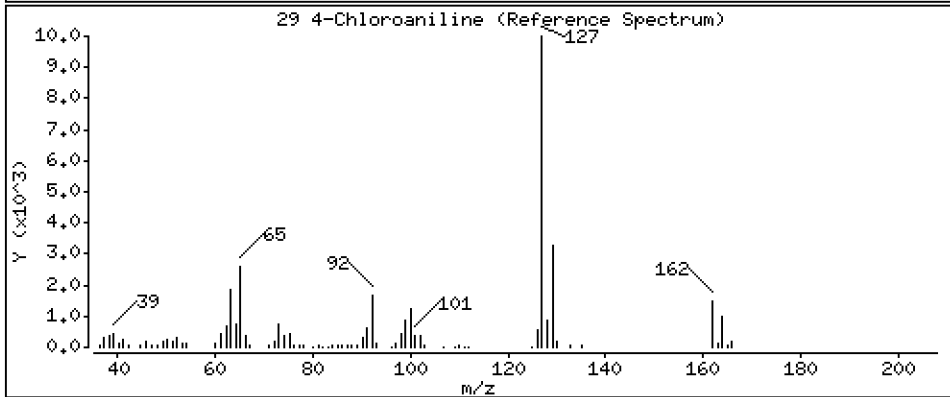
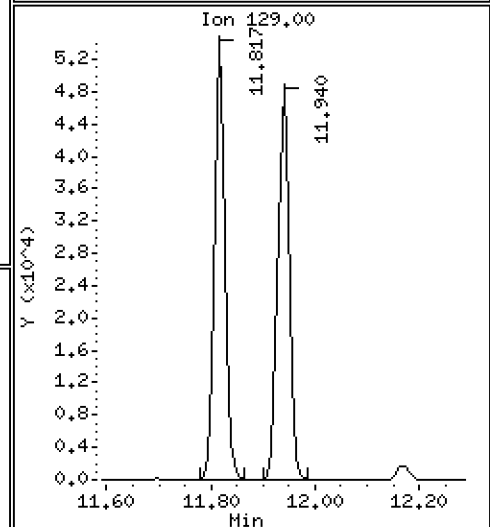
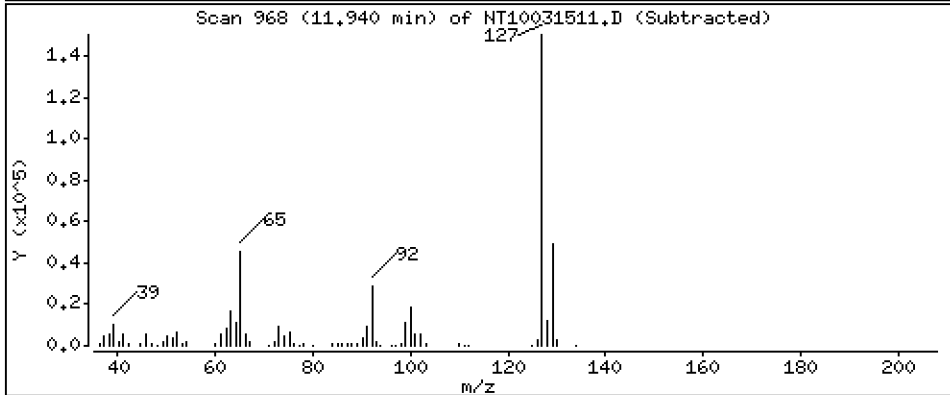
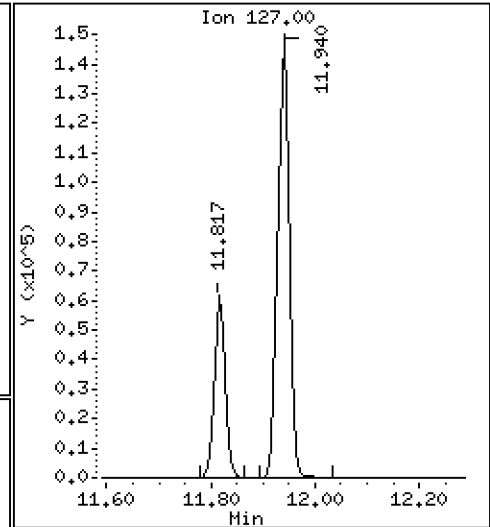
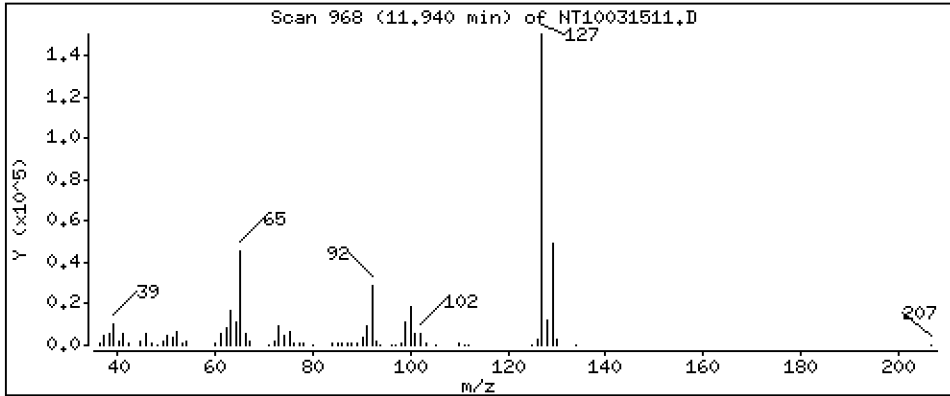
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 3,787 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

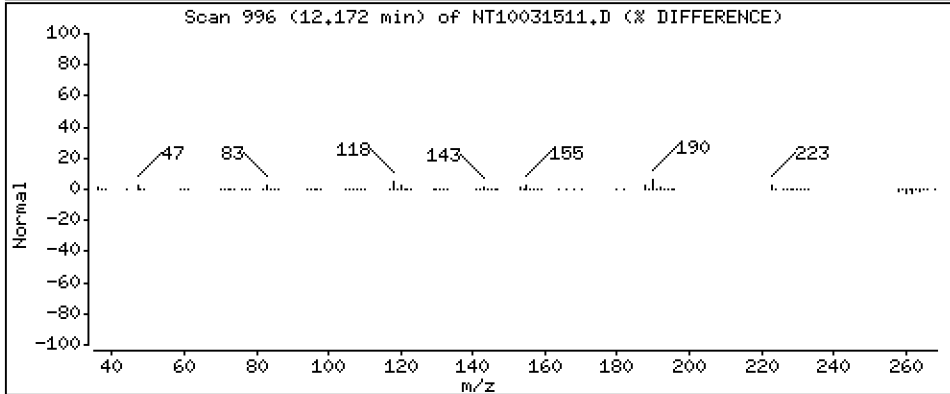
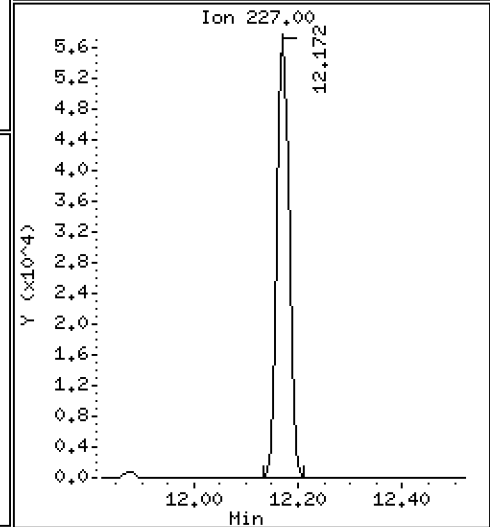
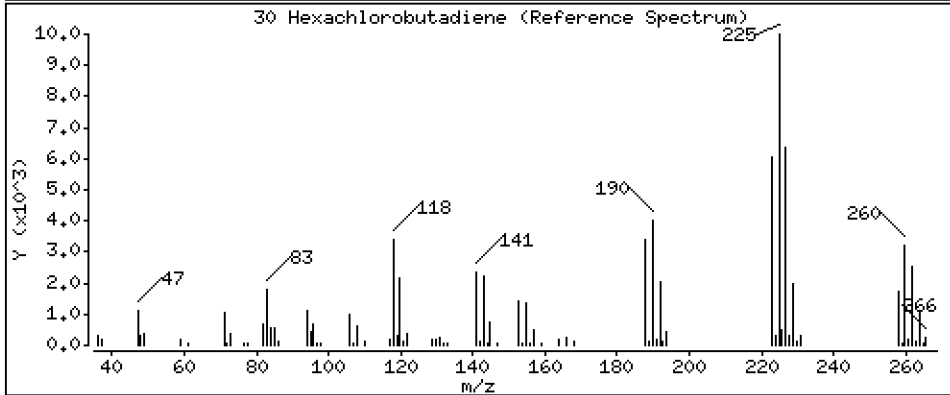
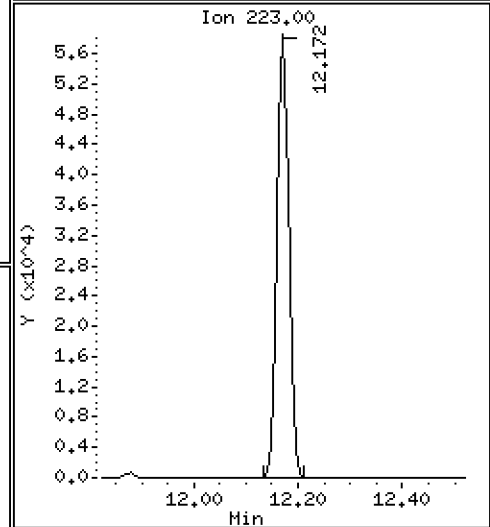
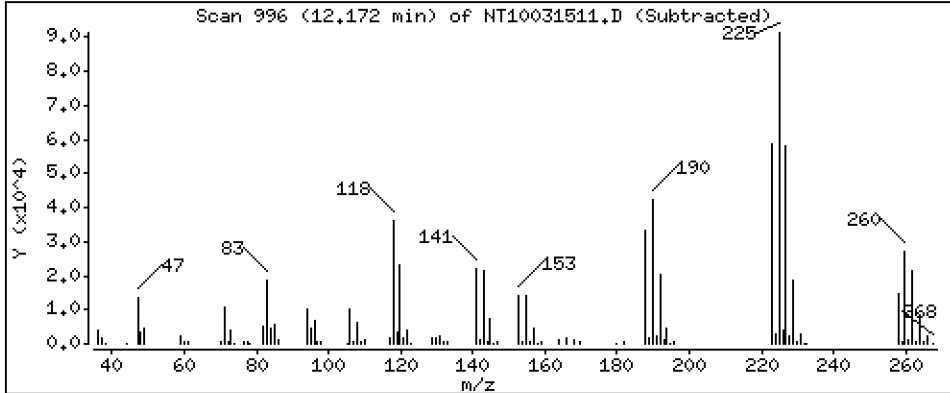
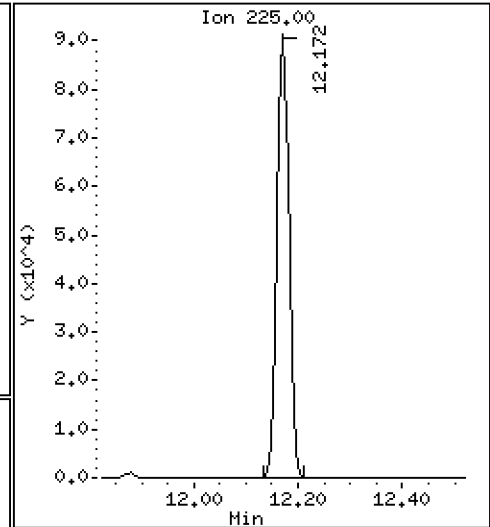
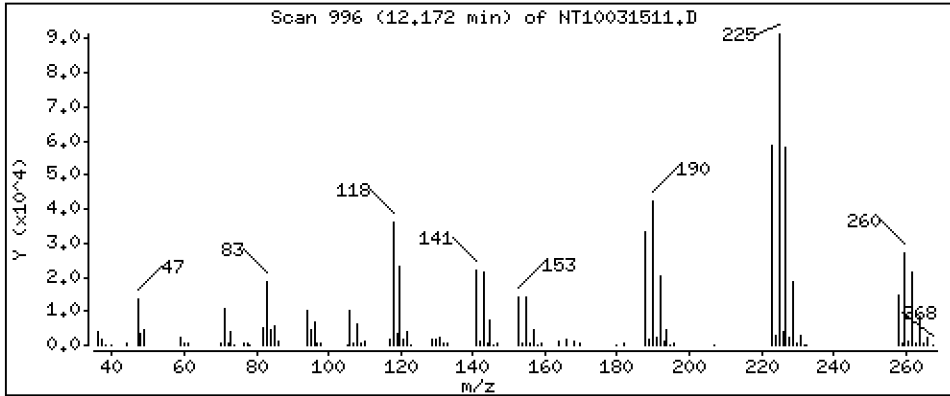
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,834 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

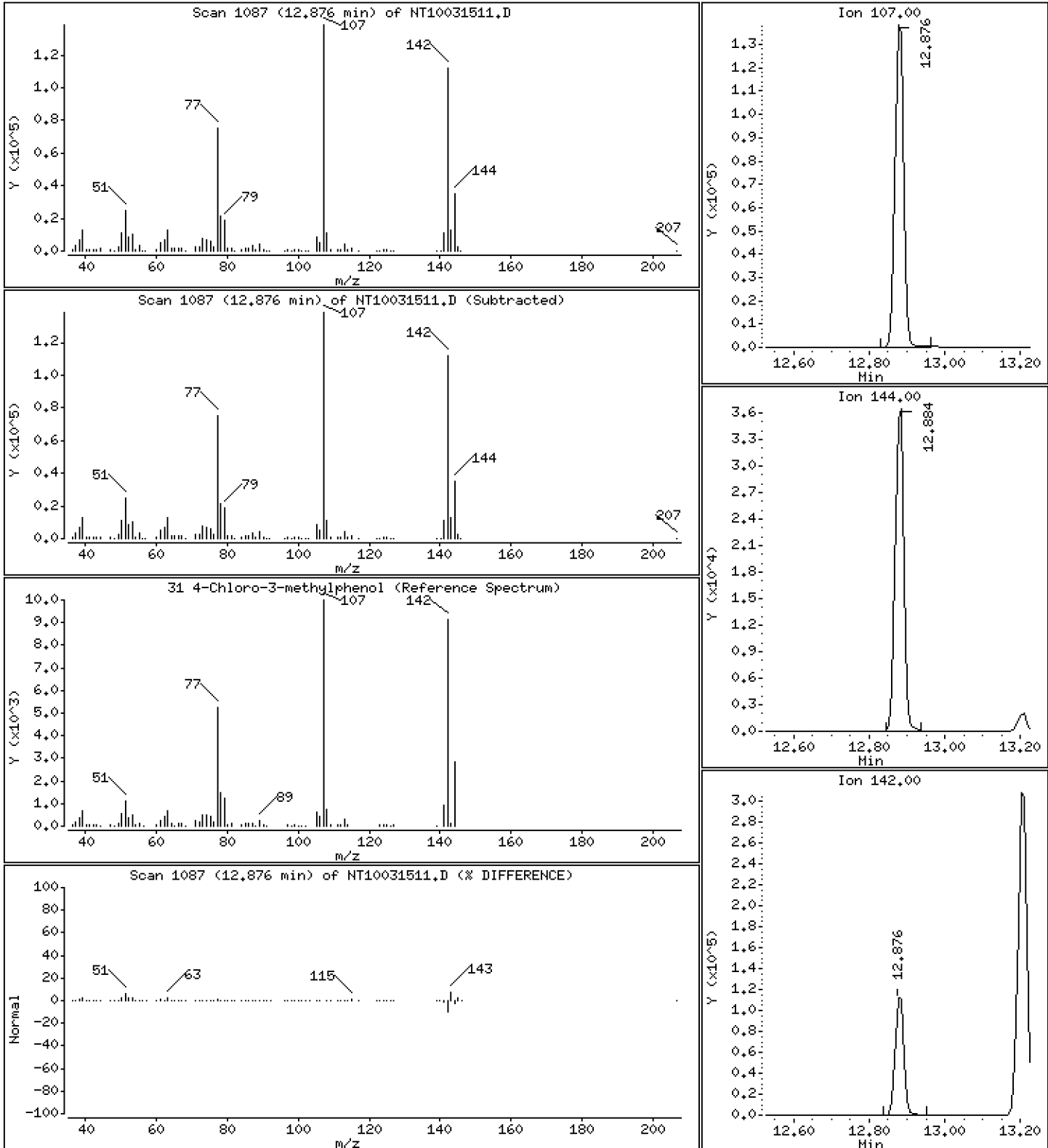
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 4,640 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

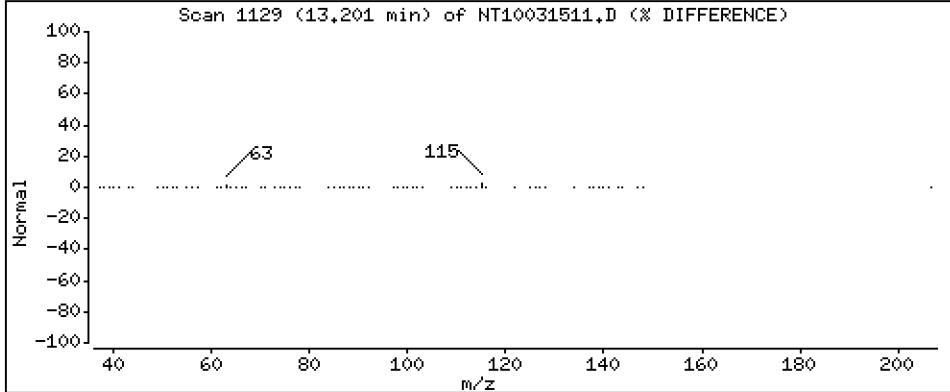
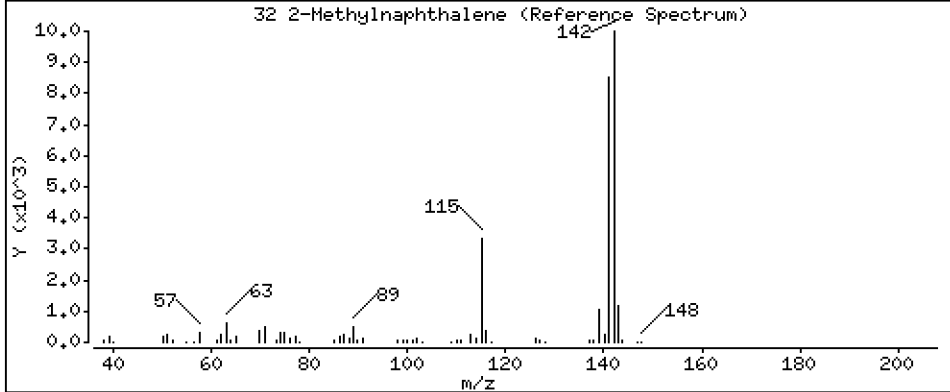
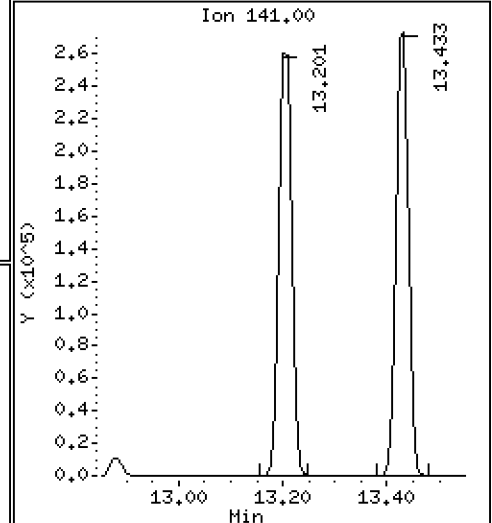
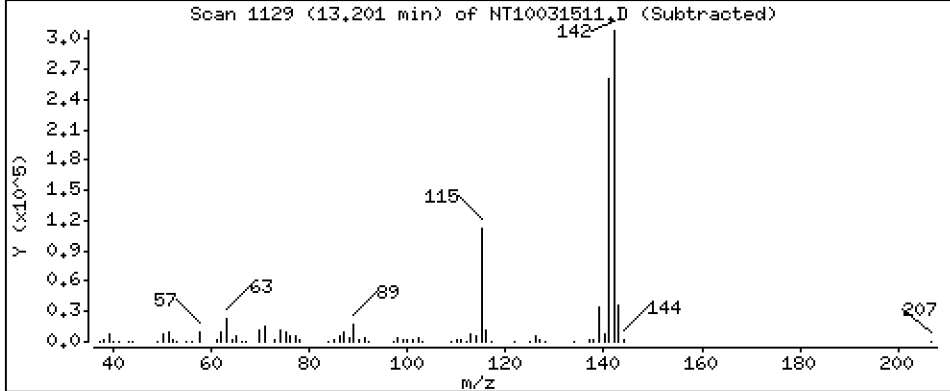
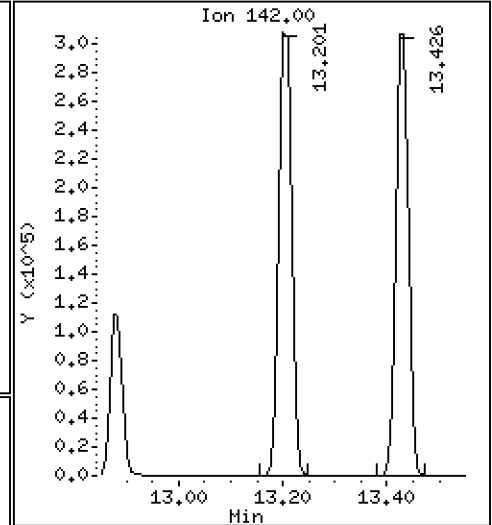
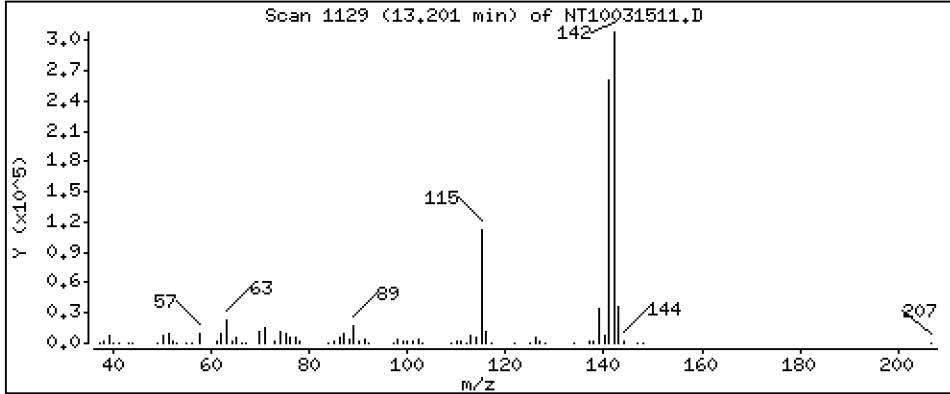
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,596 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

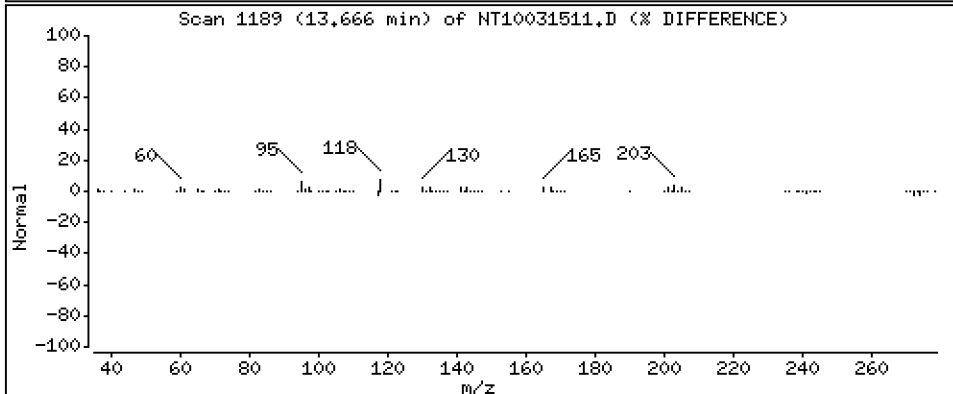
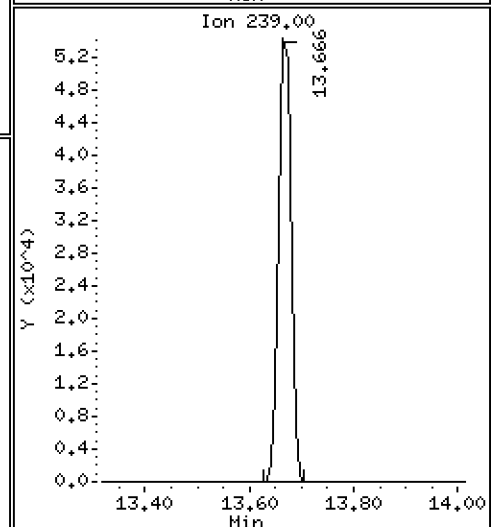
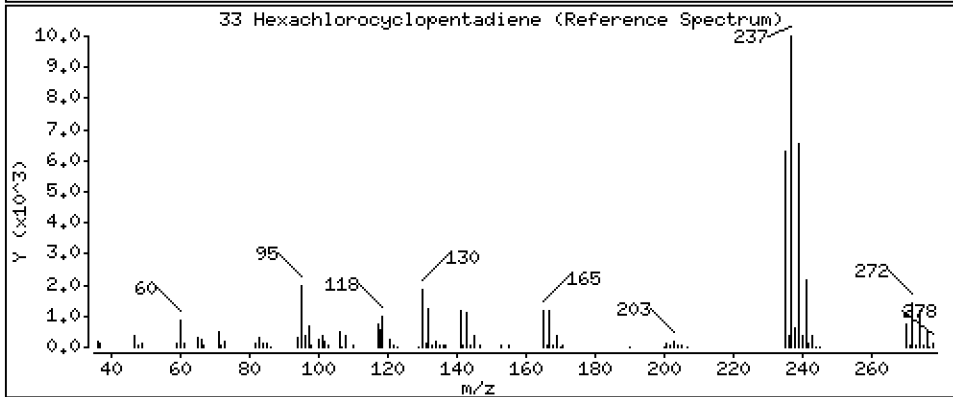
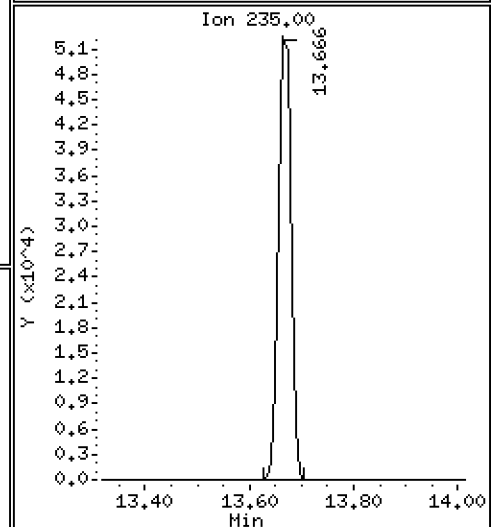
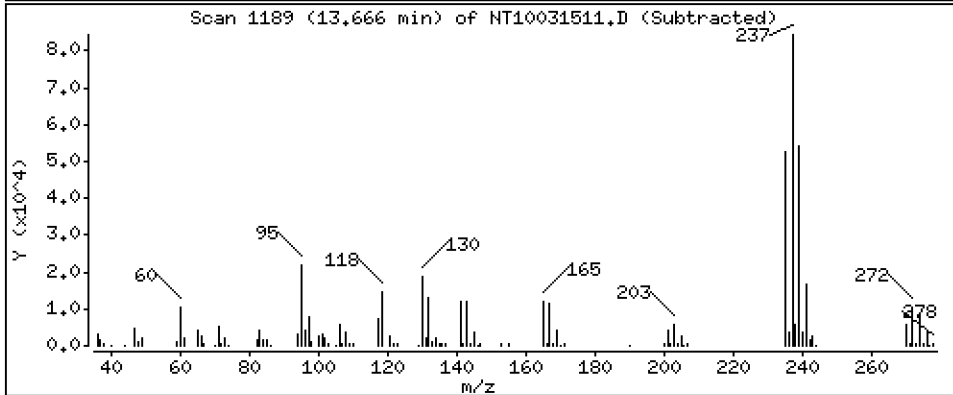
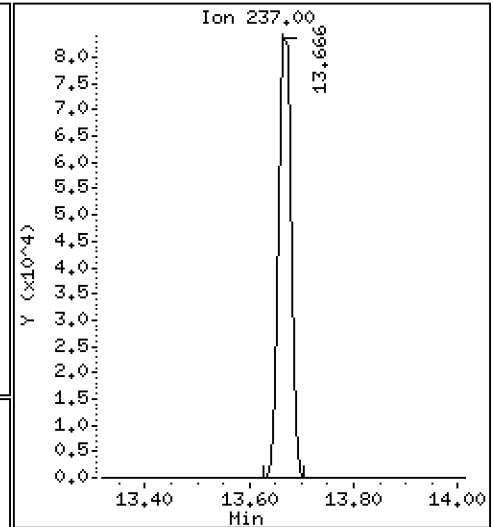
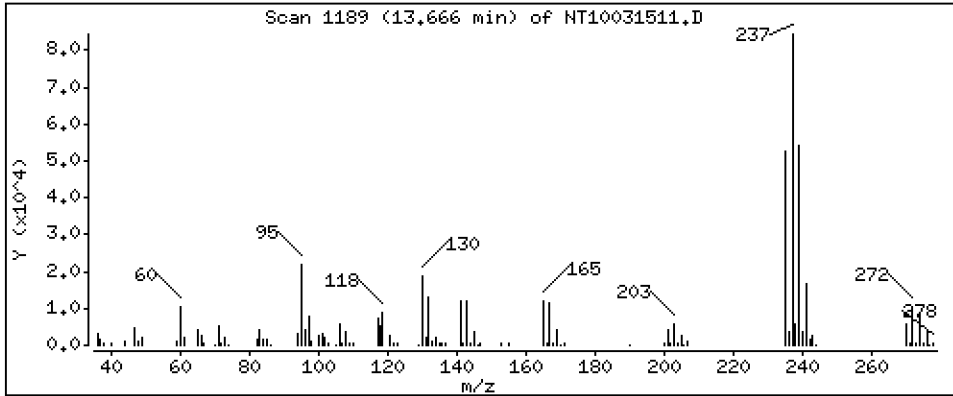
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

33 Hexachlorocyclopentadiene

Concentration: 4.729 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

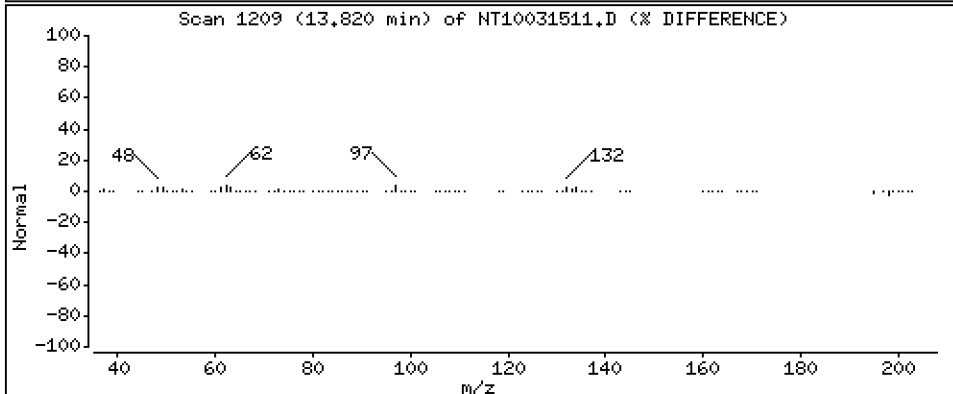
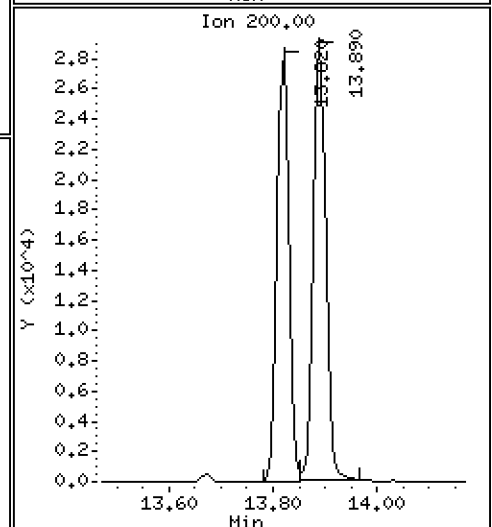
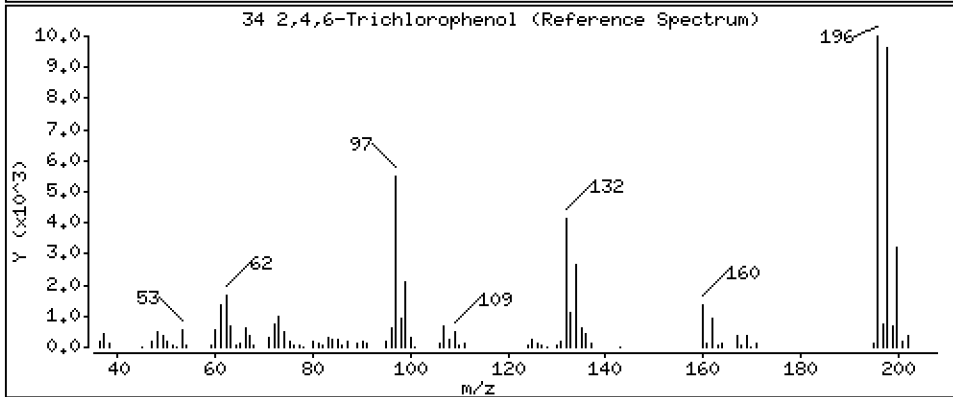
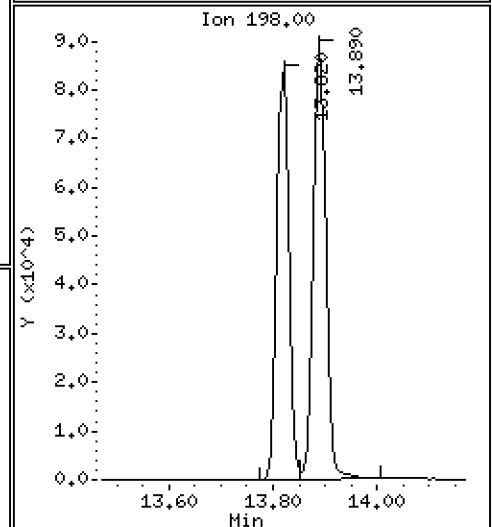
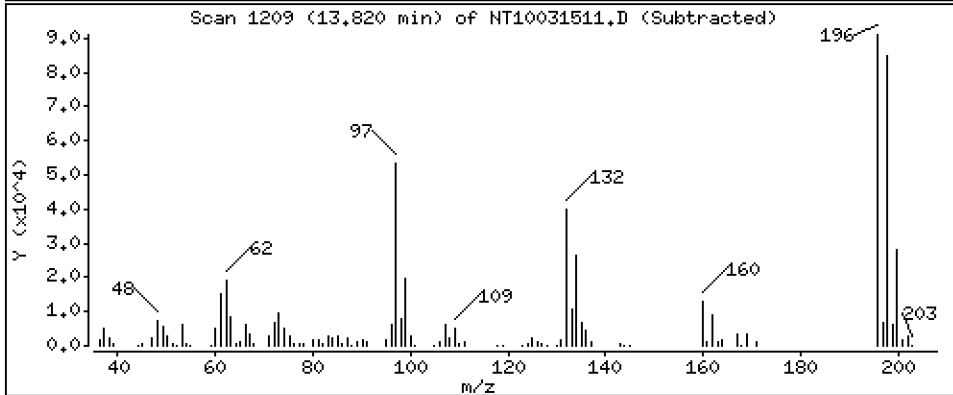
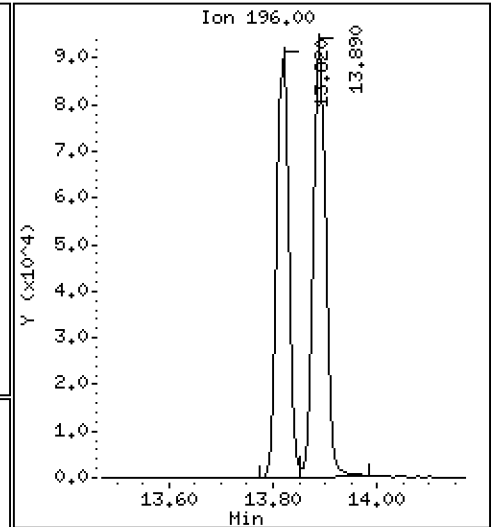
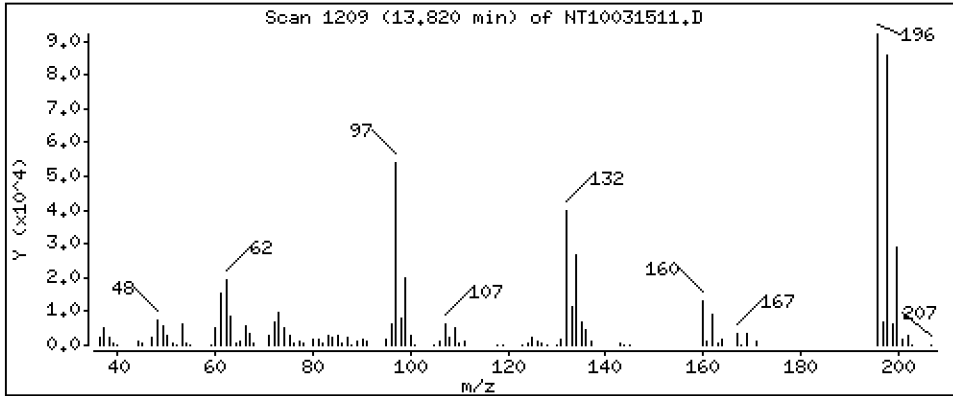
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 4,596 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

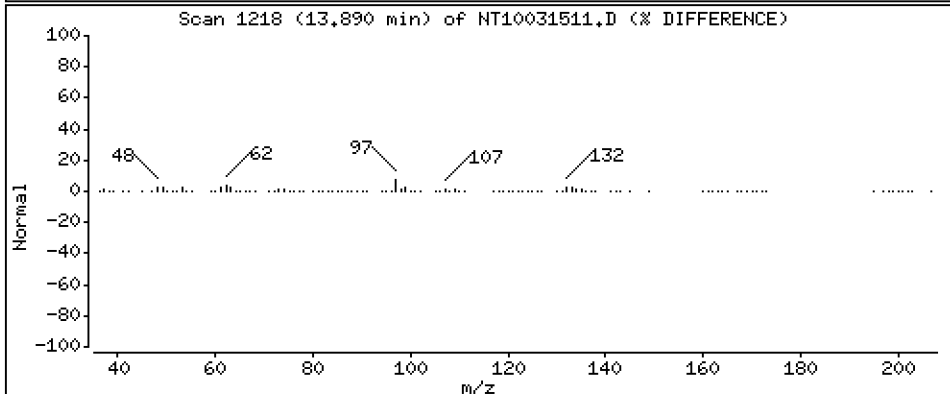
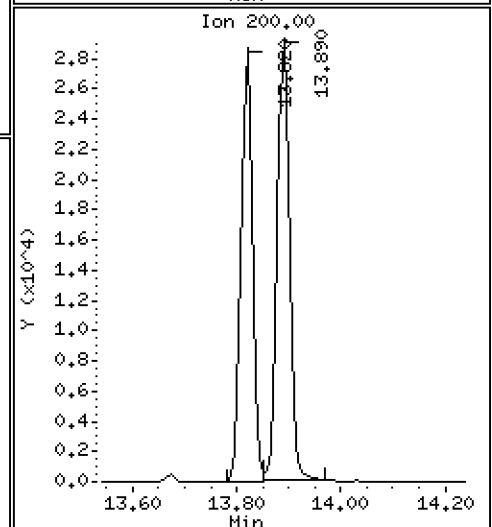
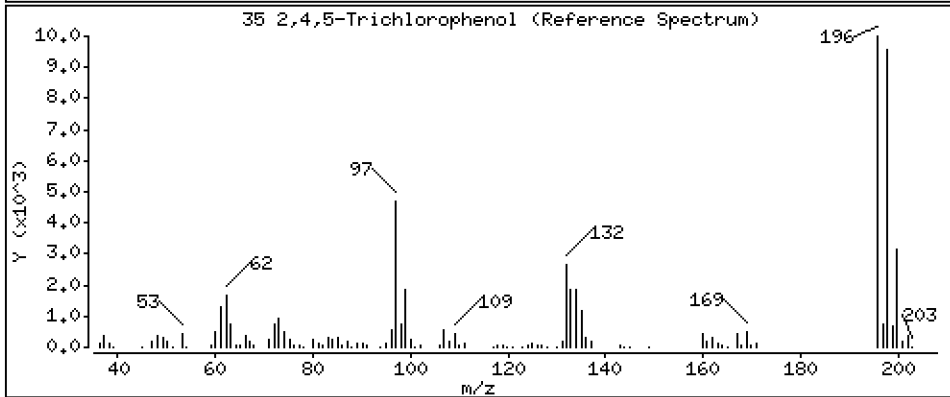
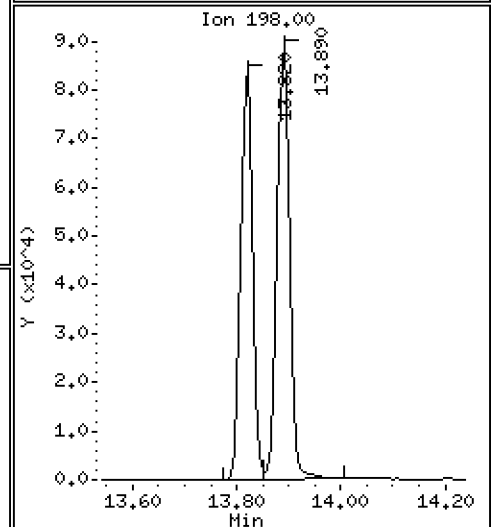
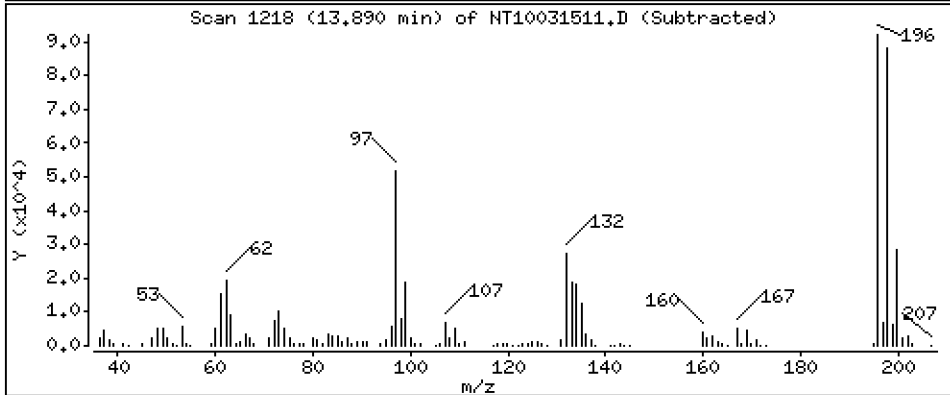
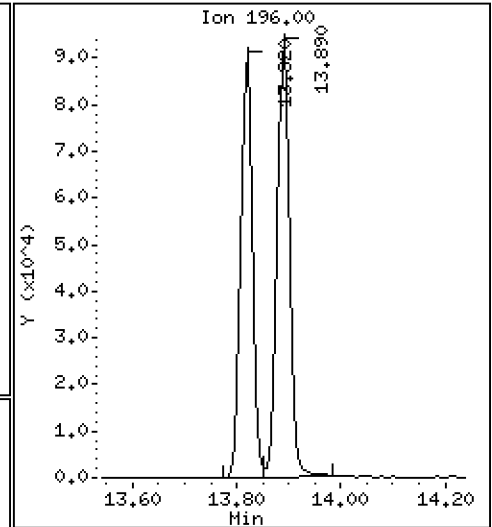
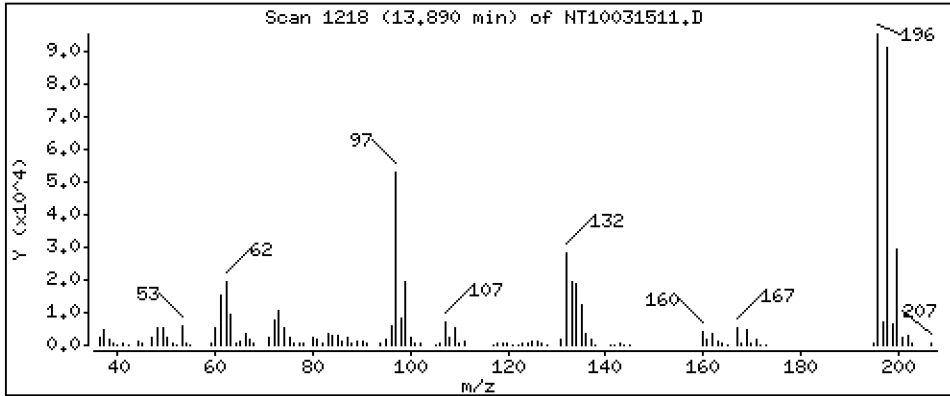
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 4,409 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

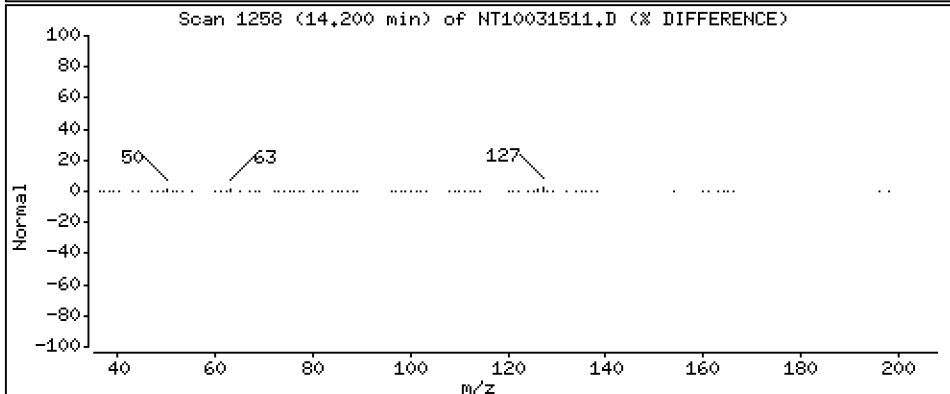
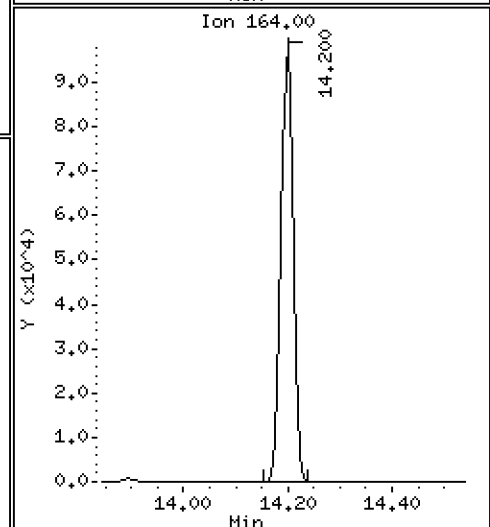
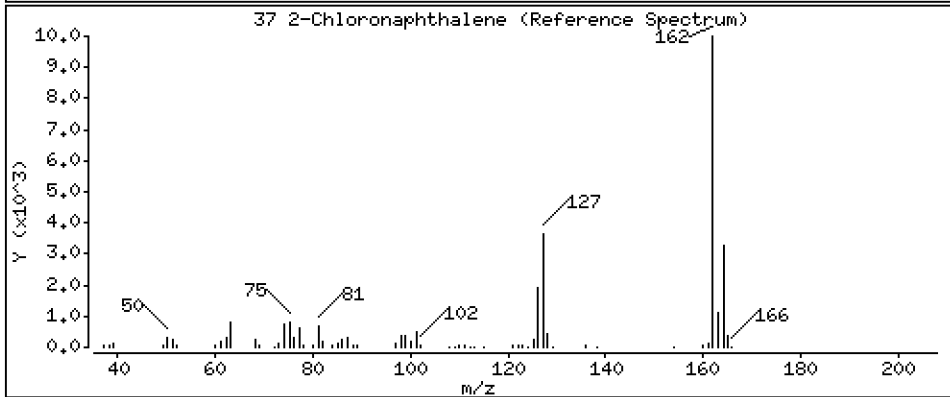
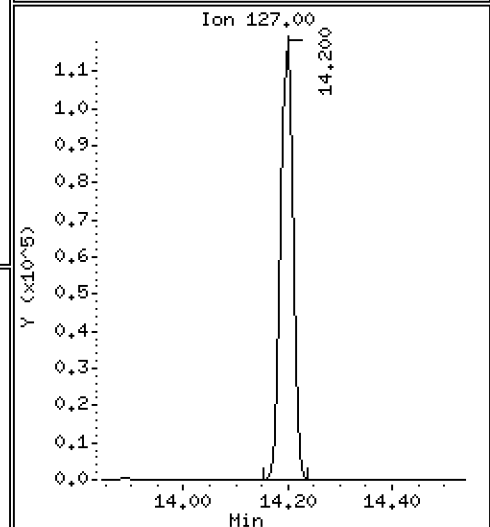
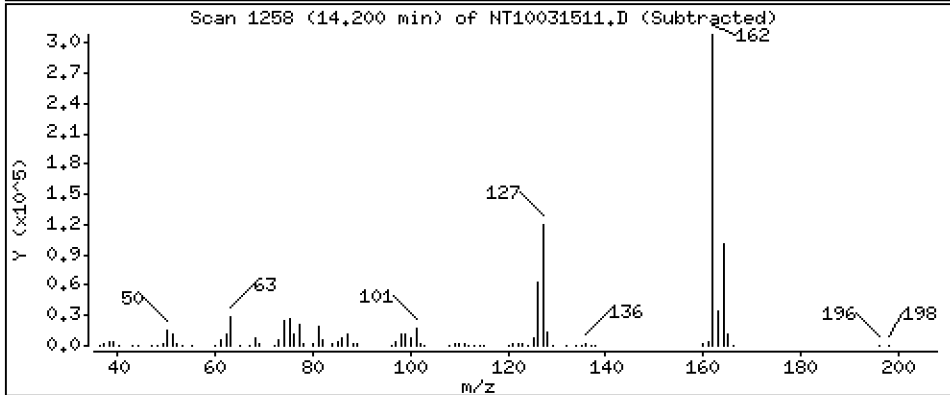
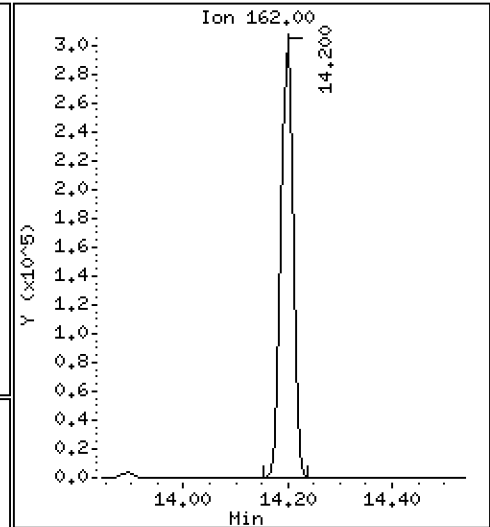
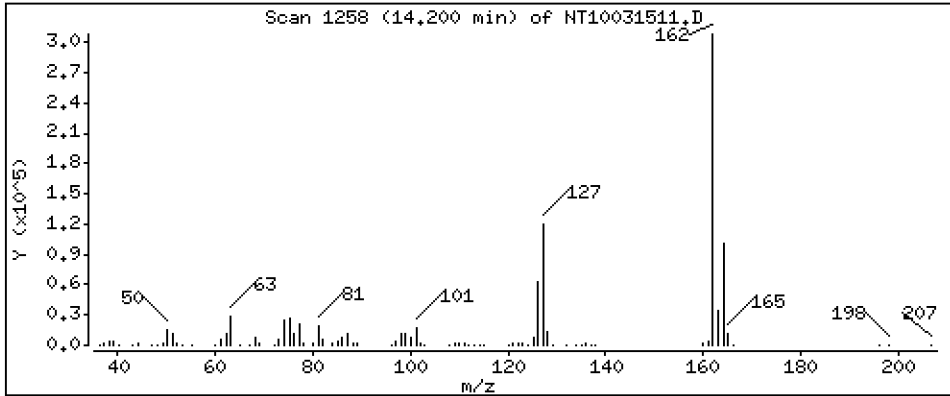
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,796 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

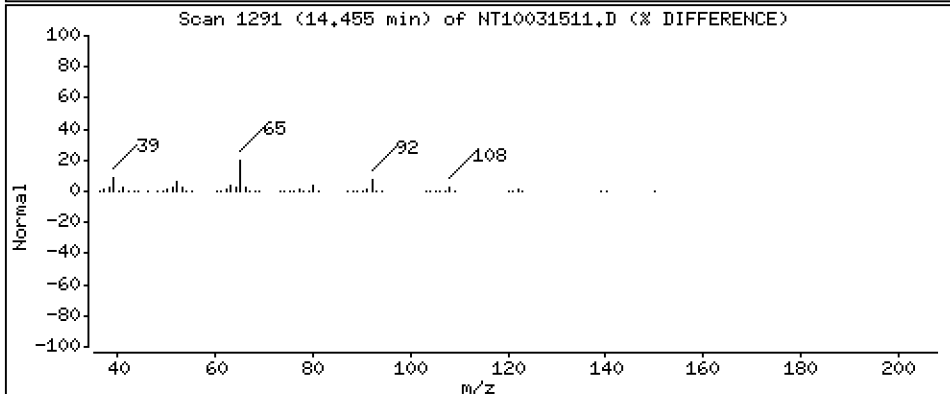
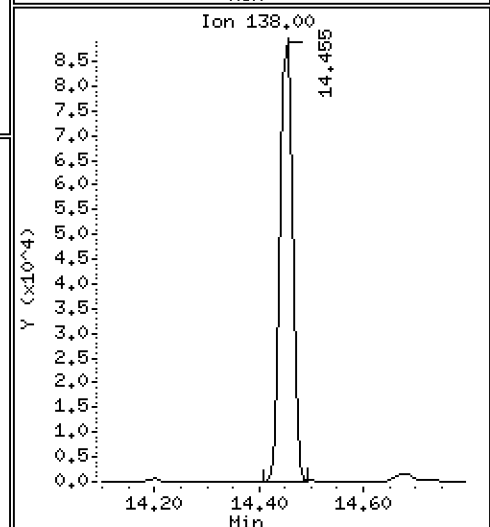
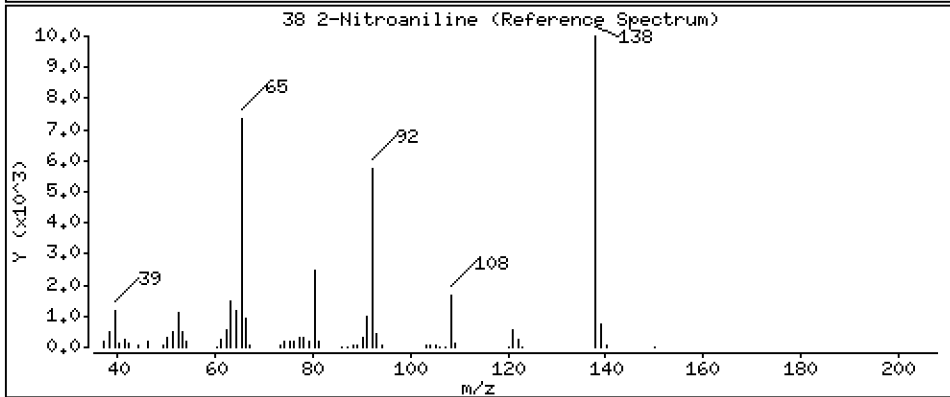
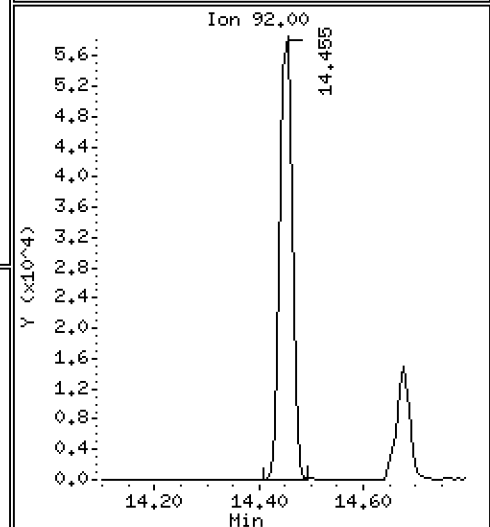
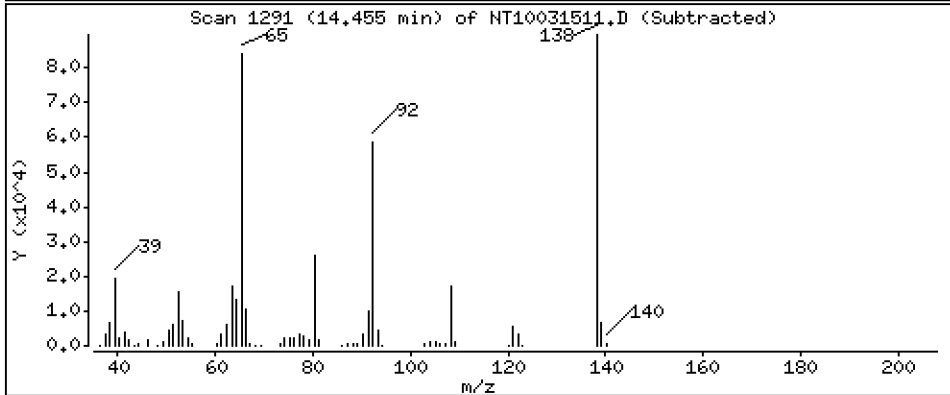
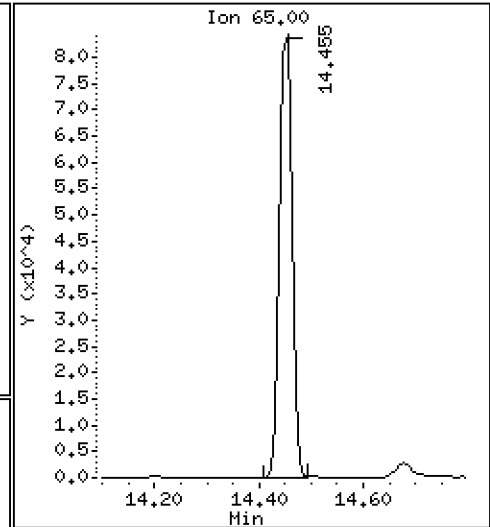
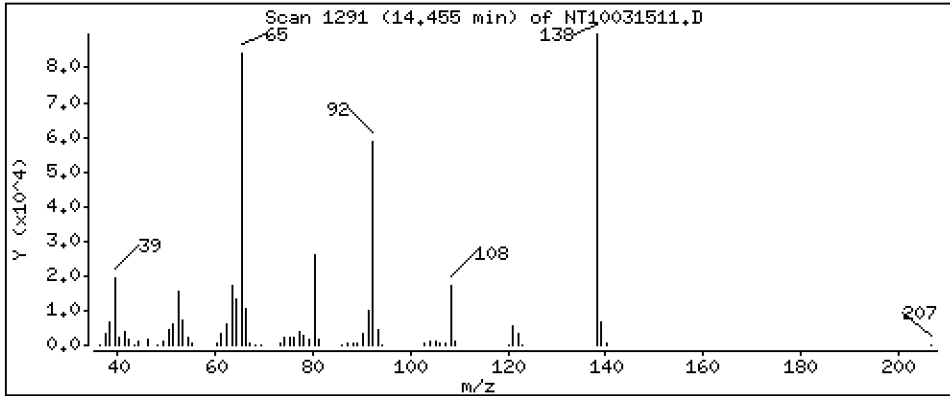
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 4,911 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

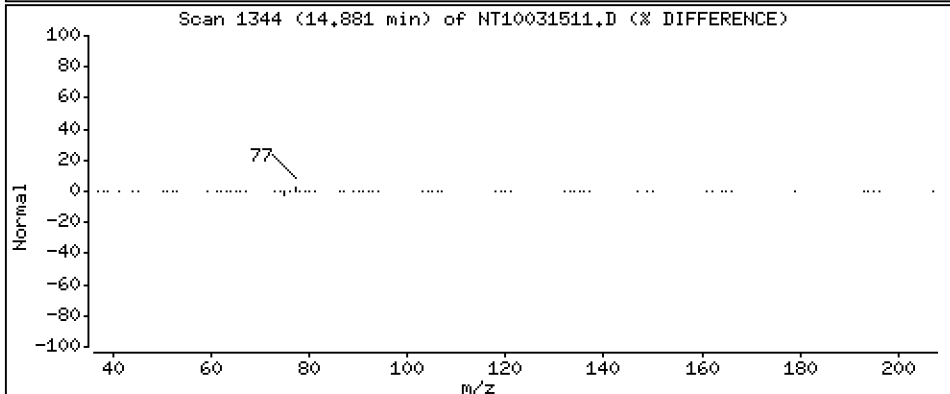
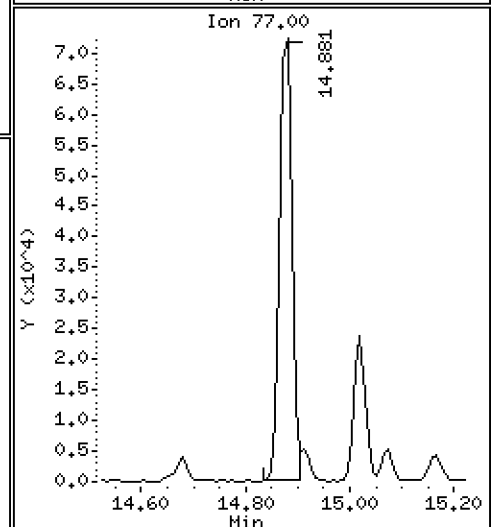
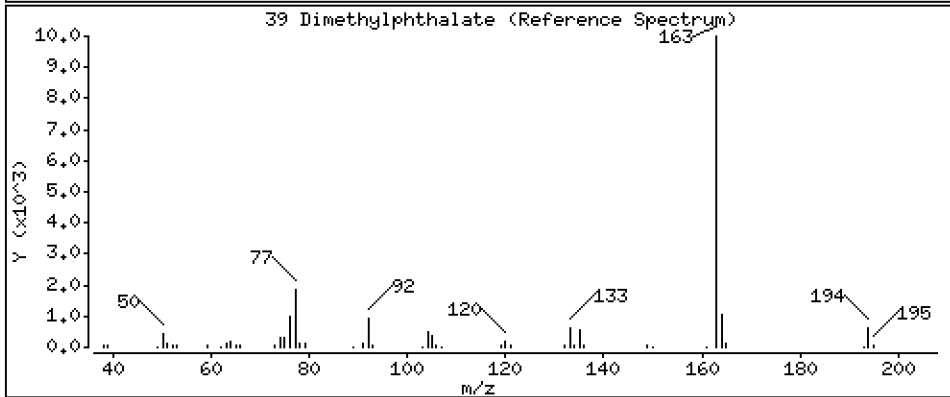
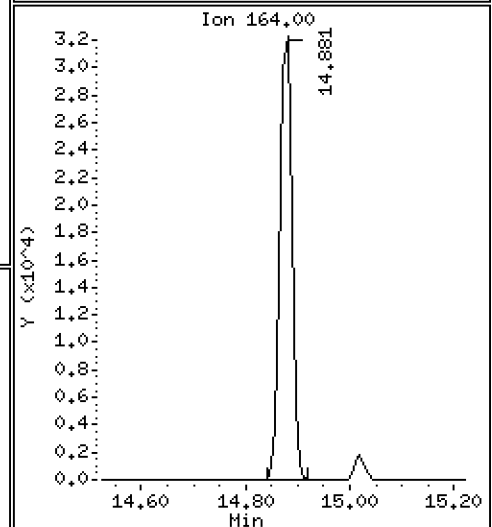
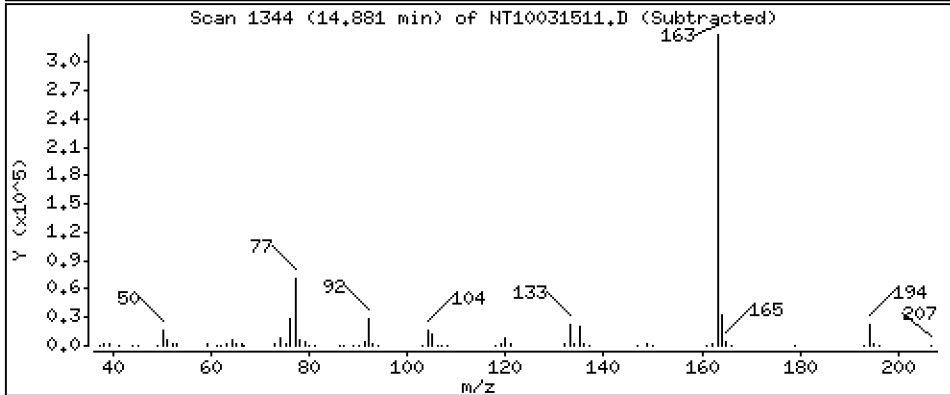
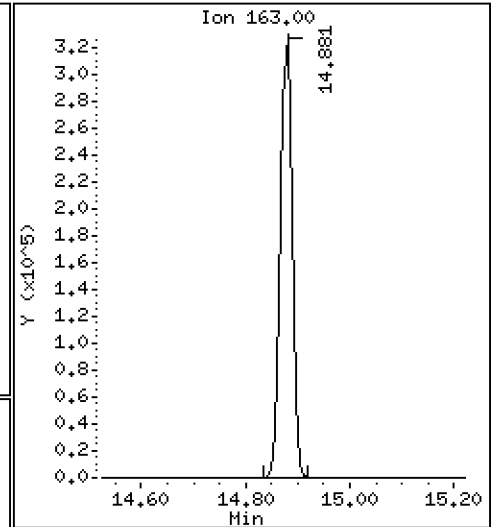
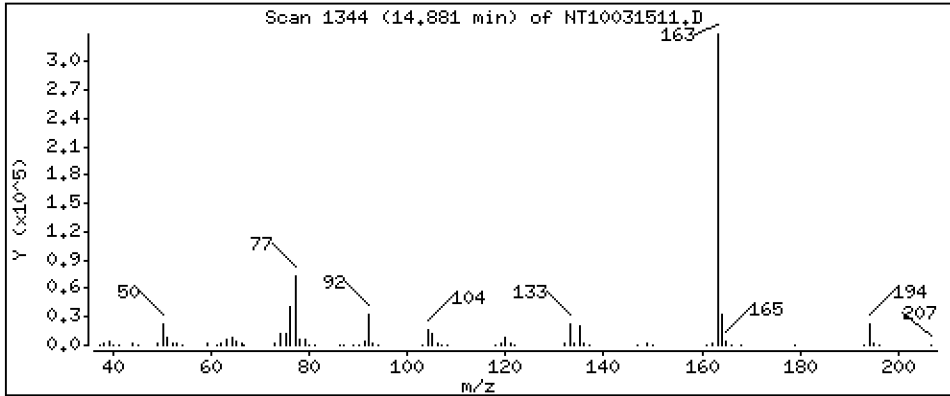
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,937 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

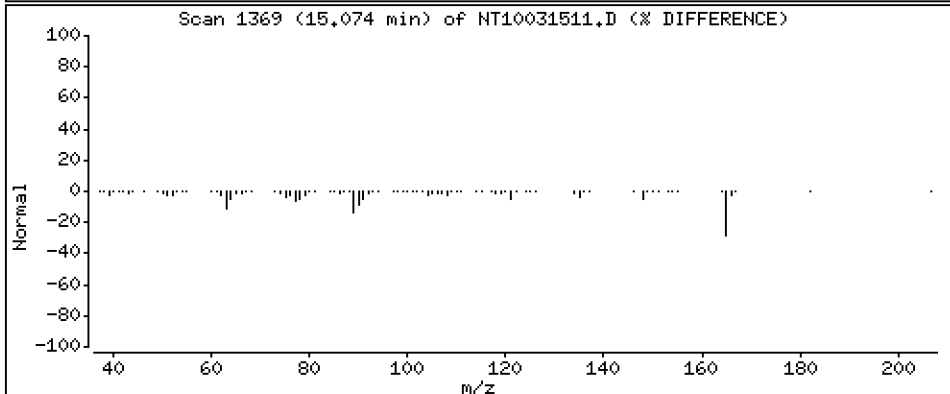
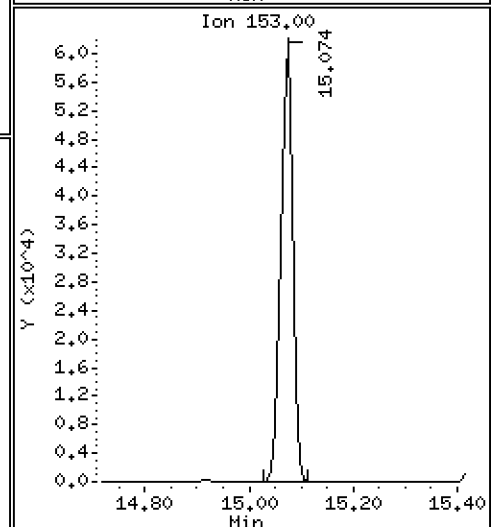
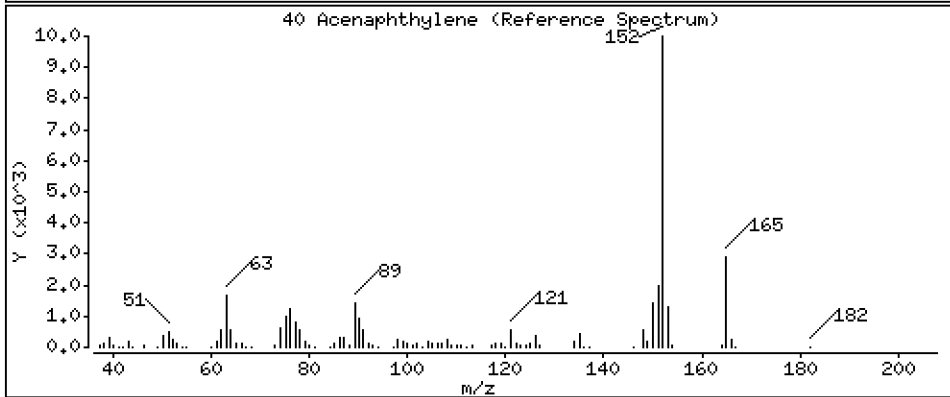
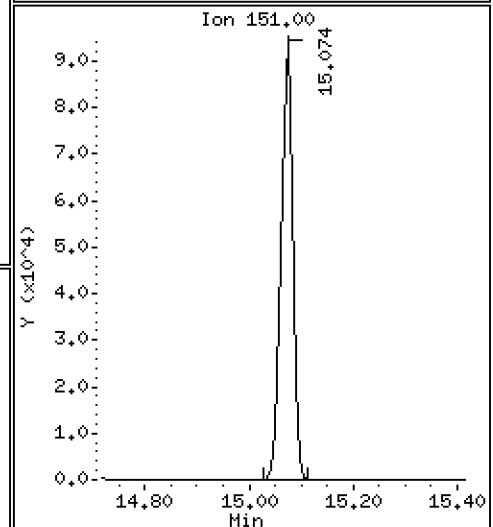
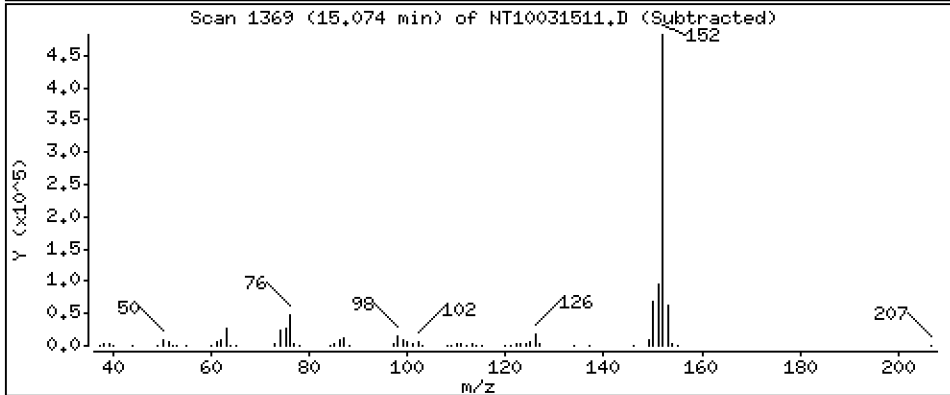
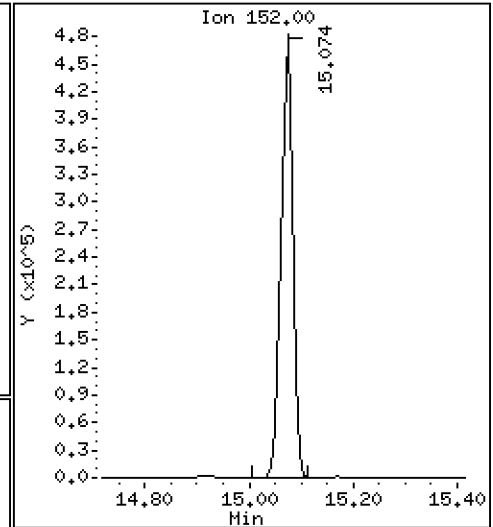
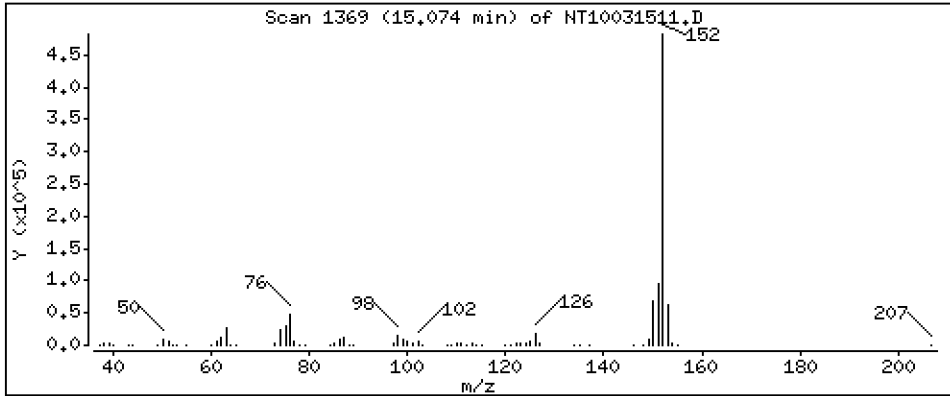
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,805 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

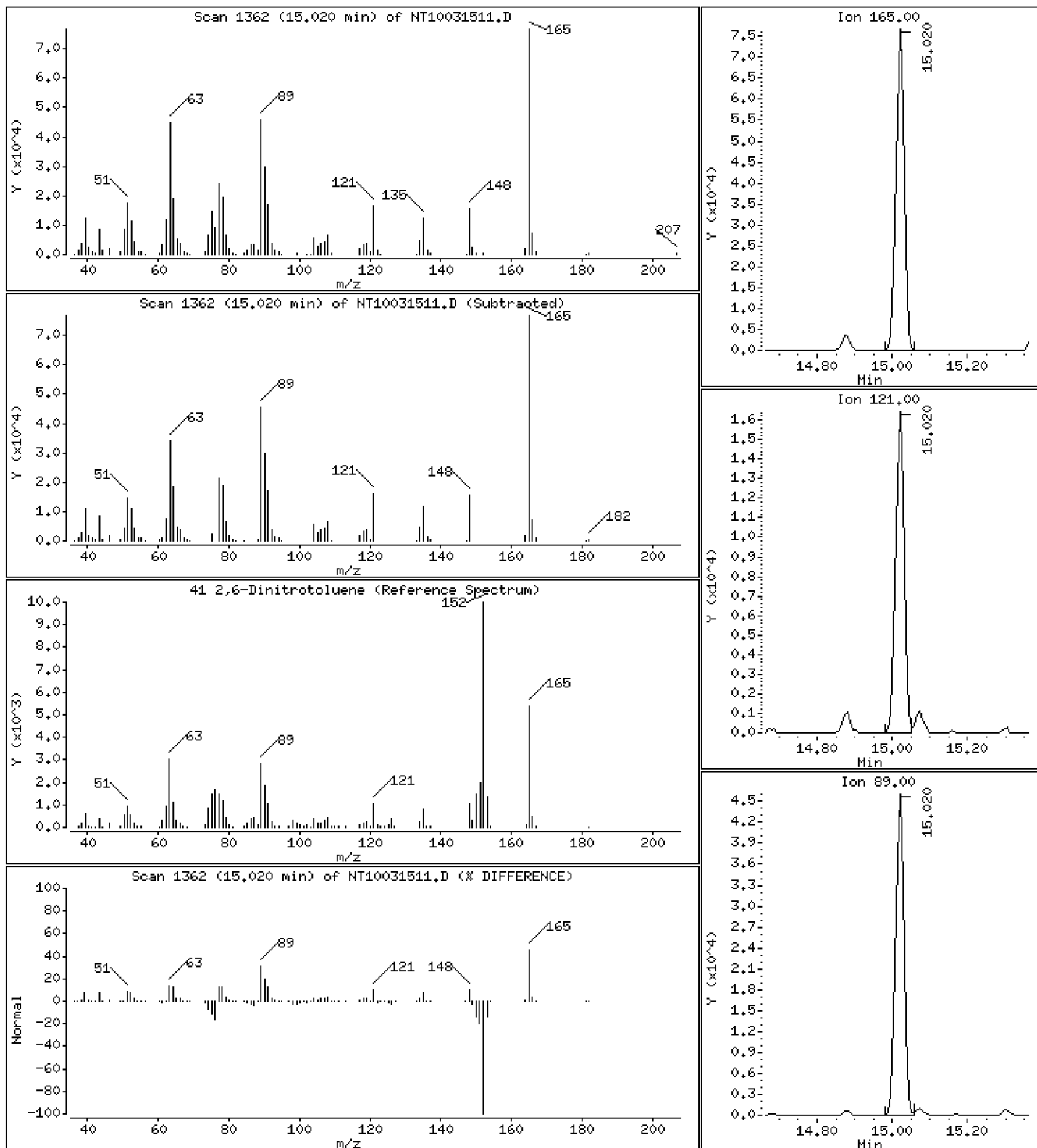
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 5,298 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

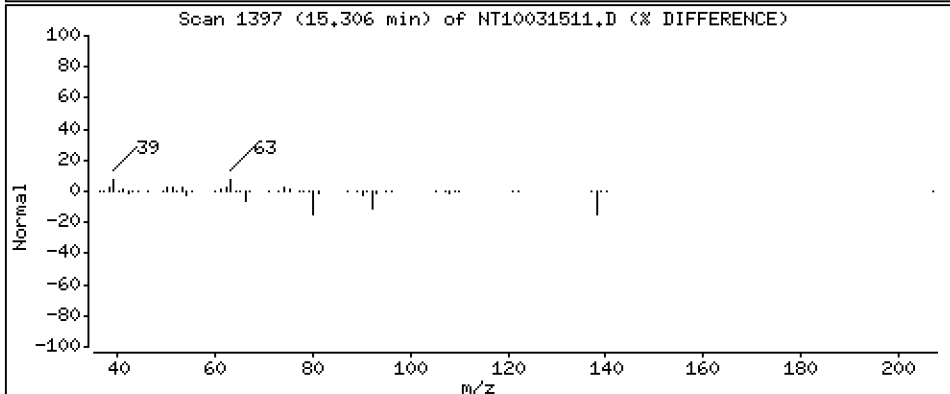
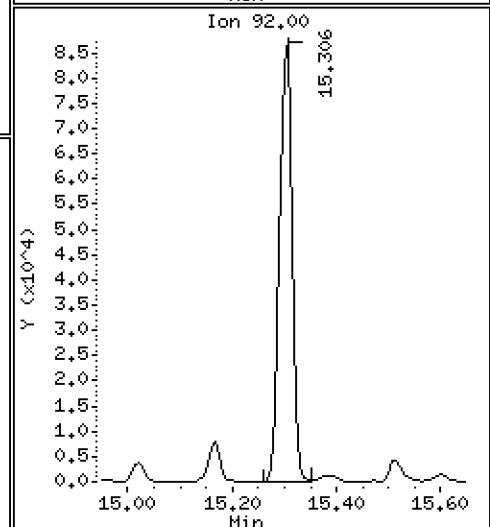
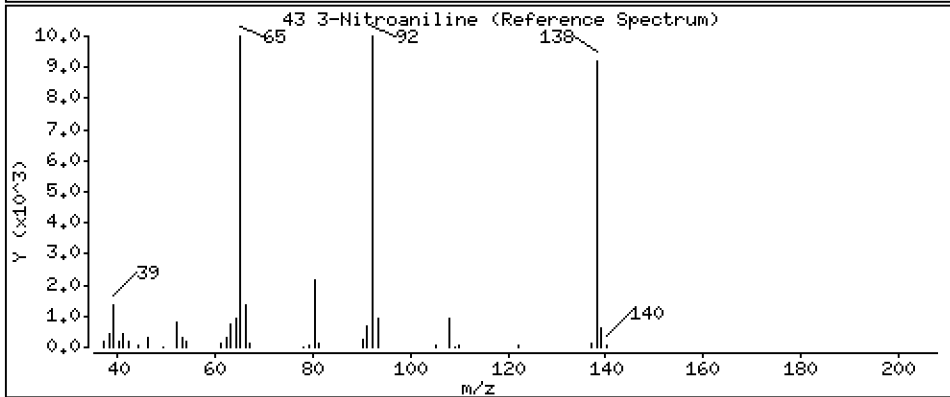
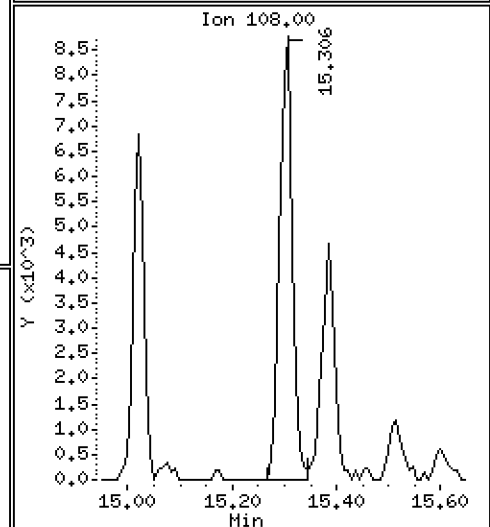
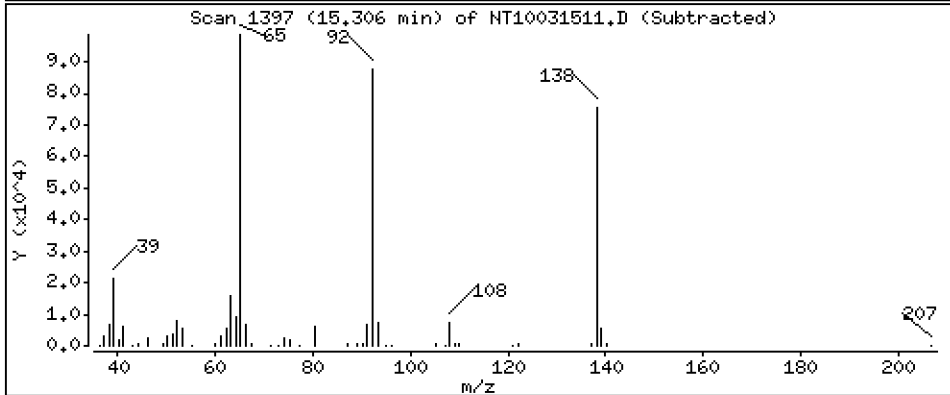
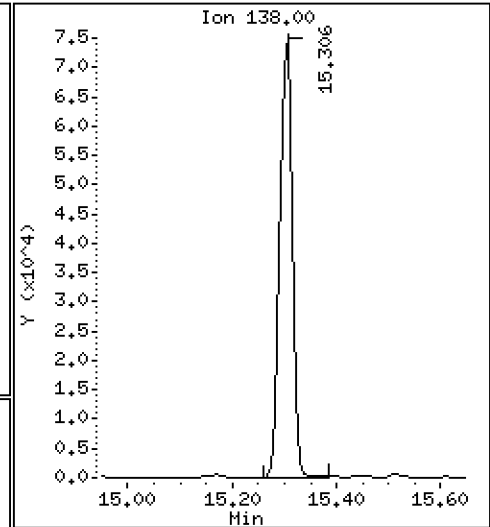
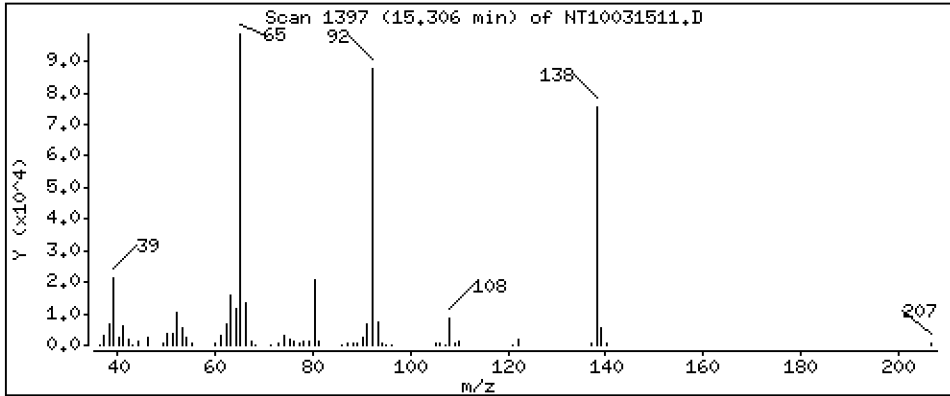
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 5,014 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

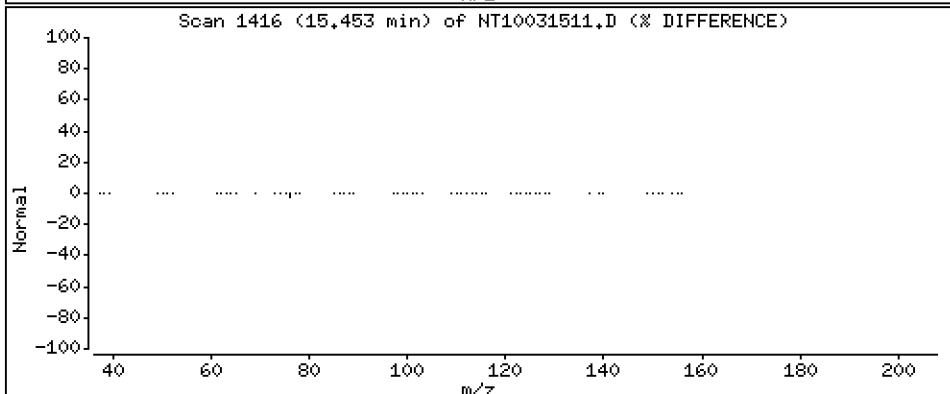
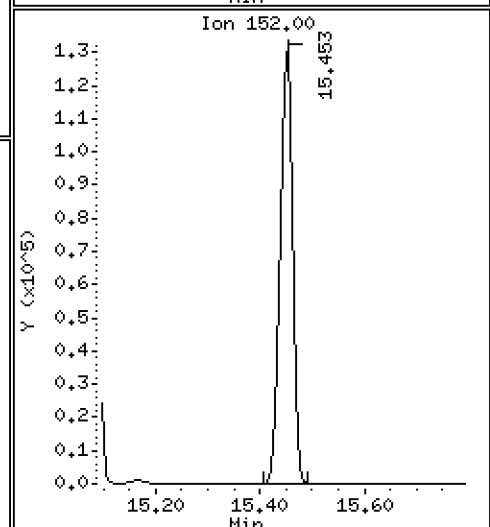
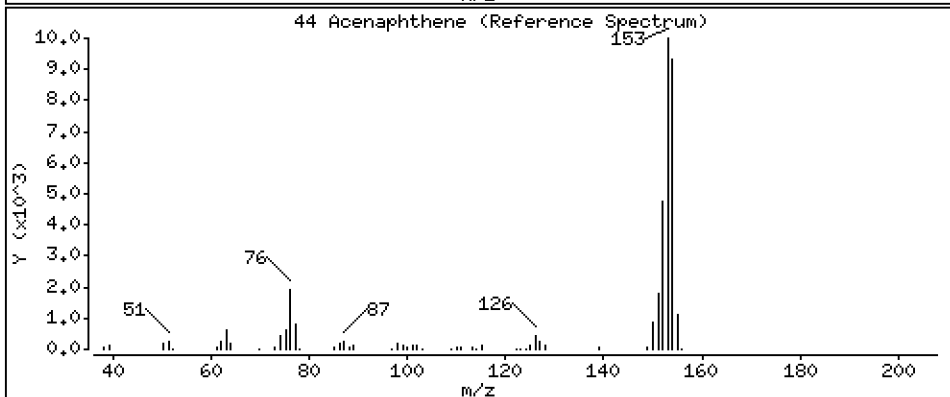
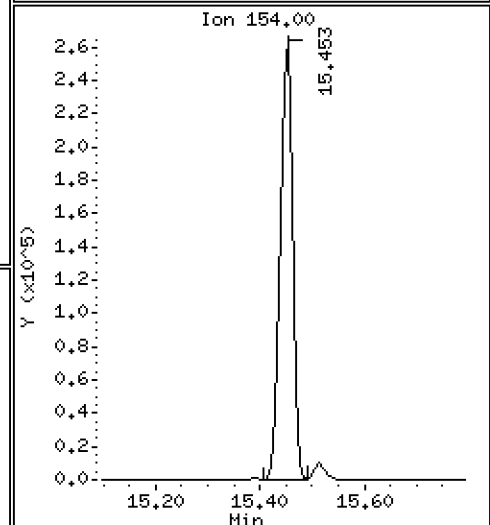
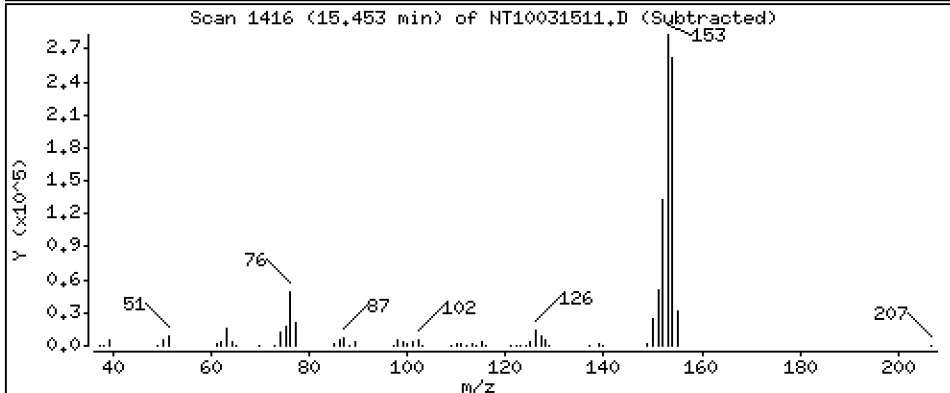
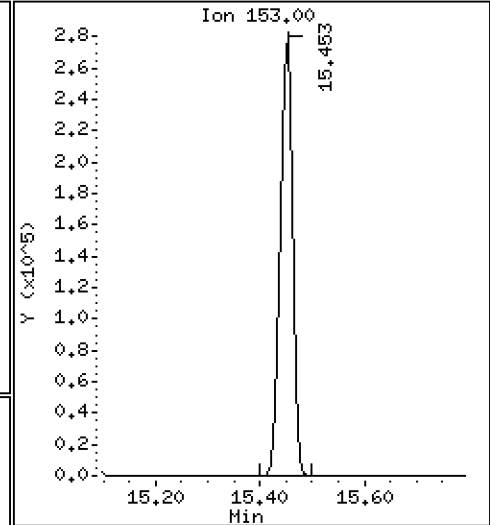
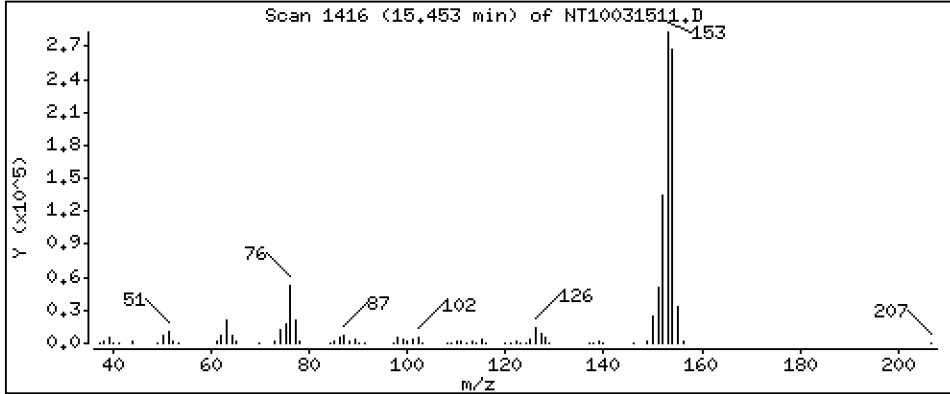
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,776 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

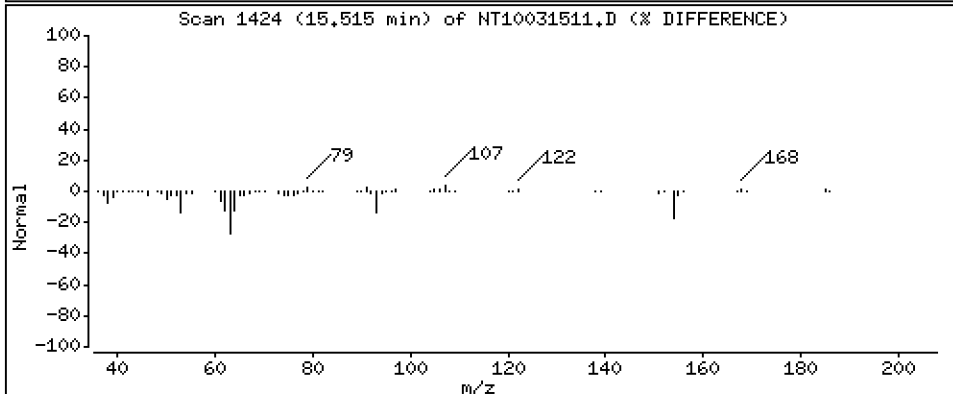
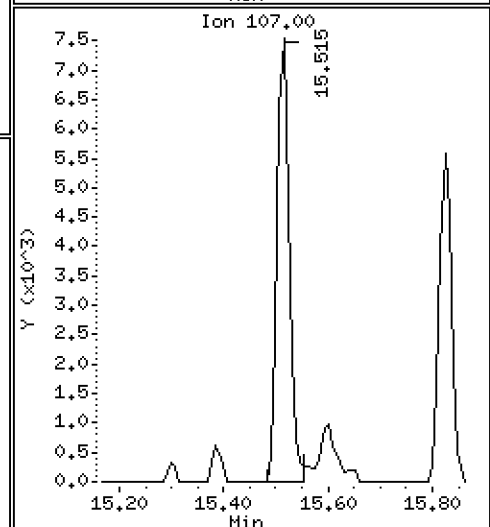
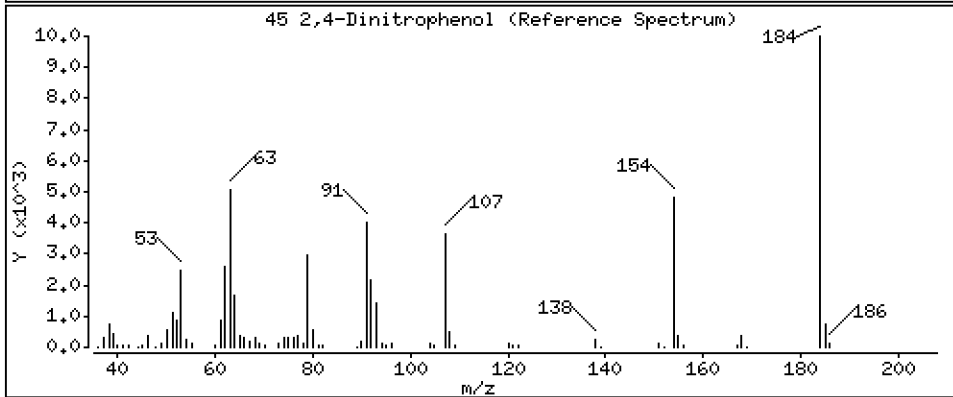
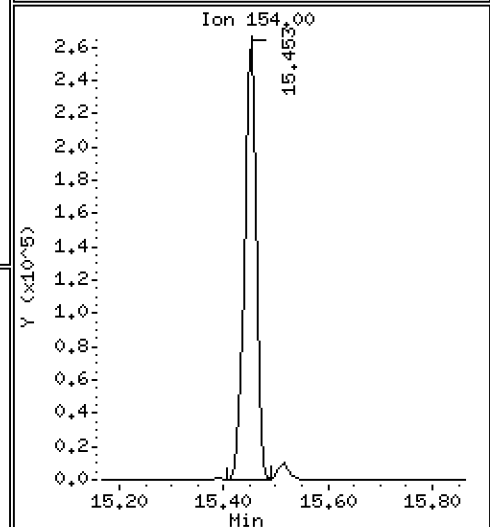
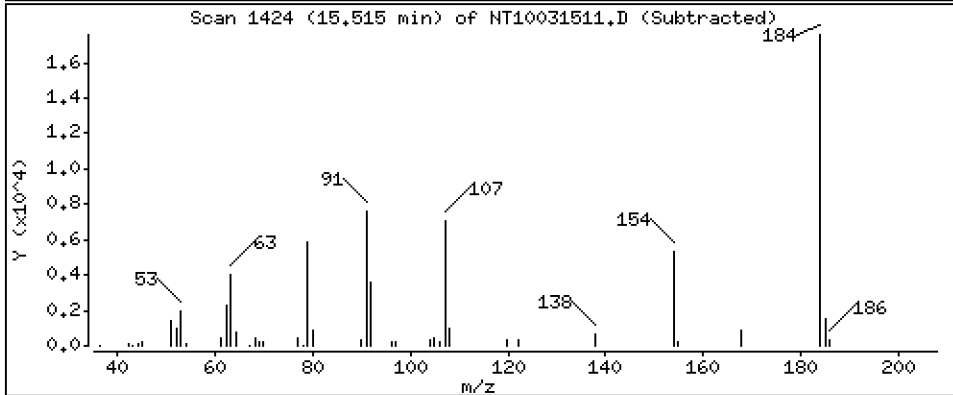
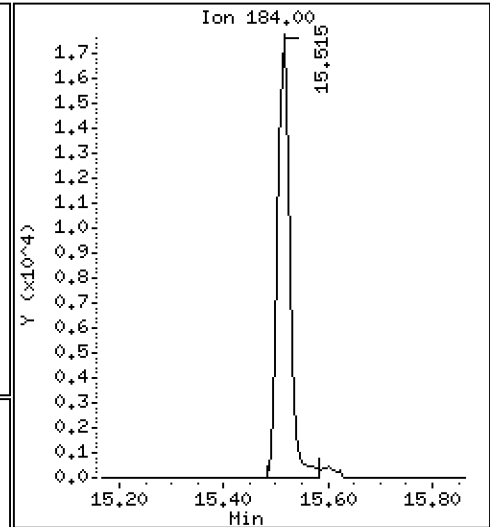
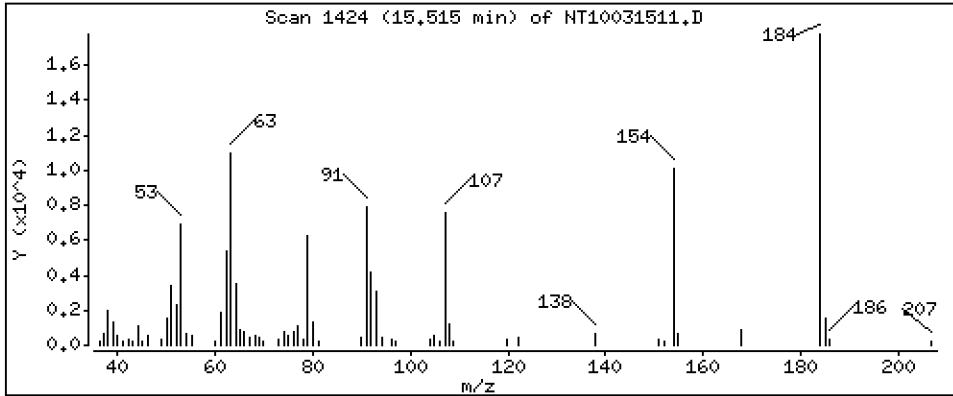
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 2,124 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

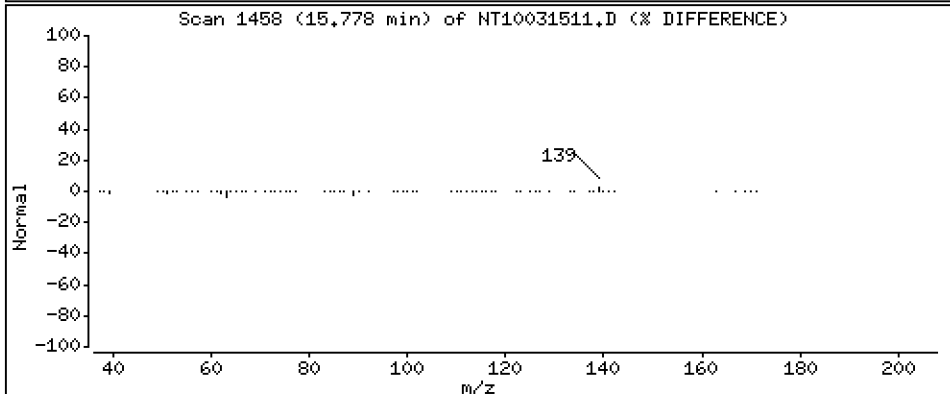
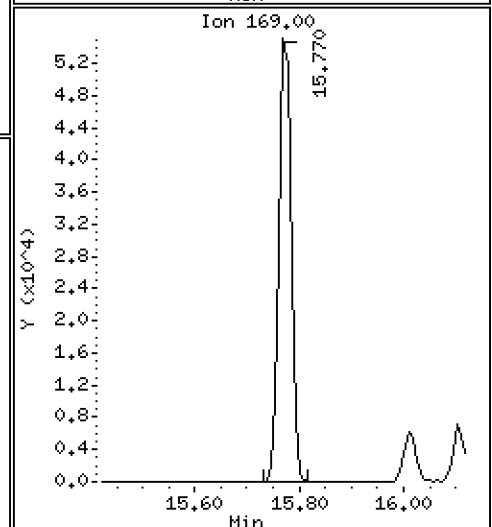
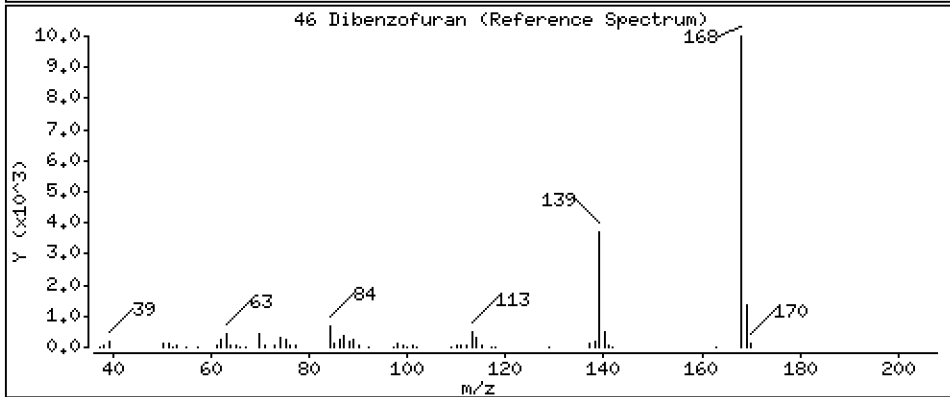
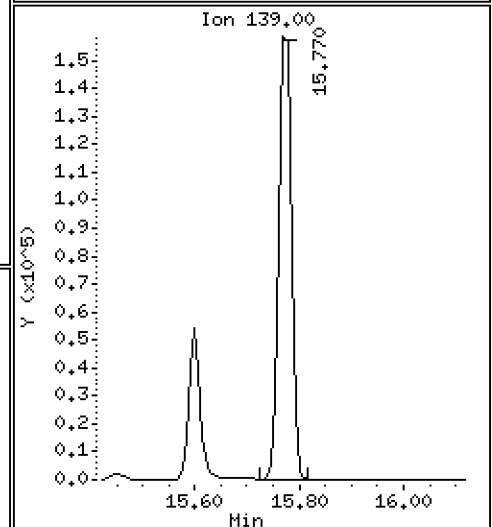
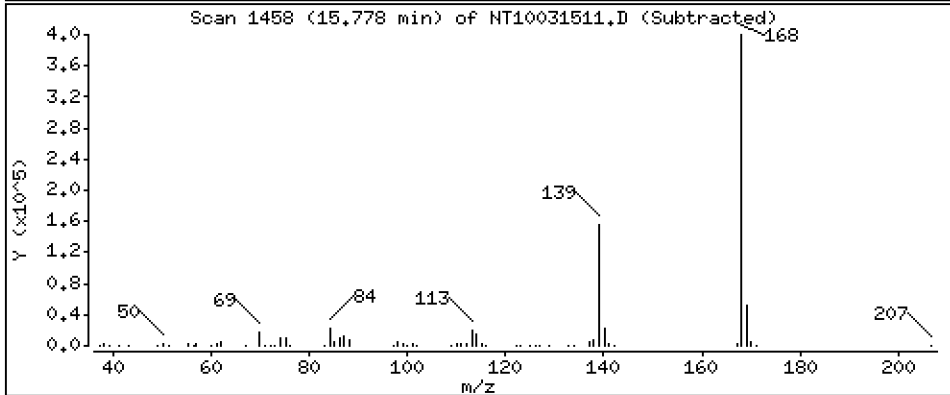
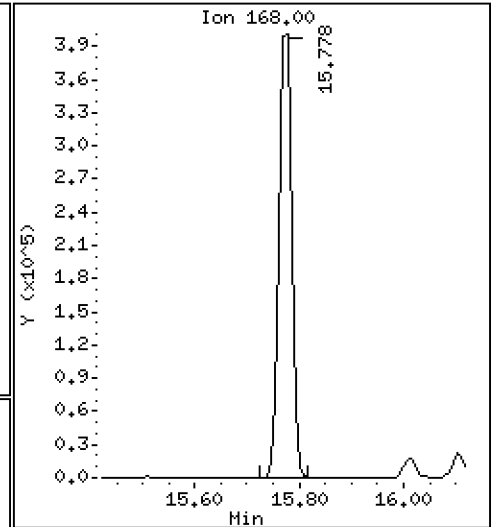
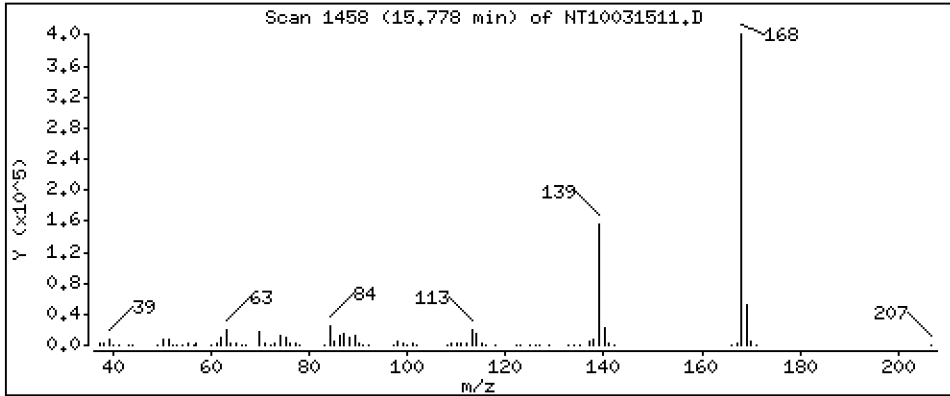
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,648 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

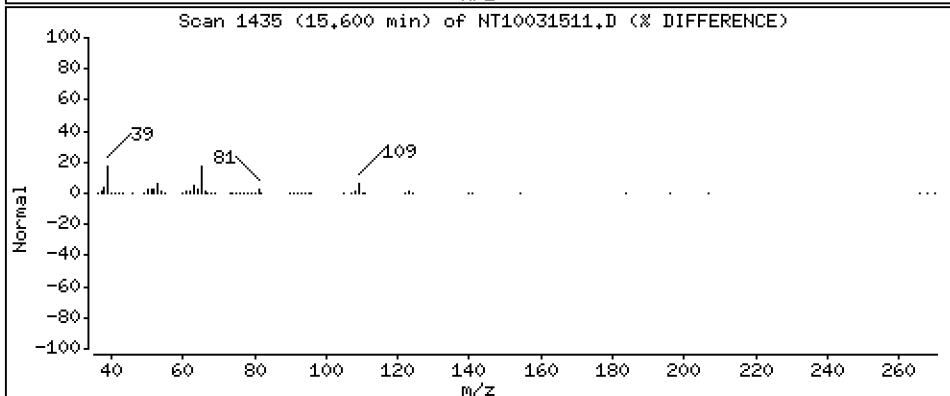
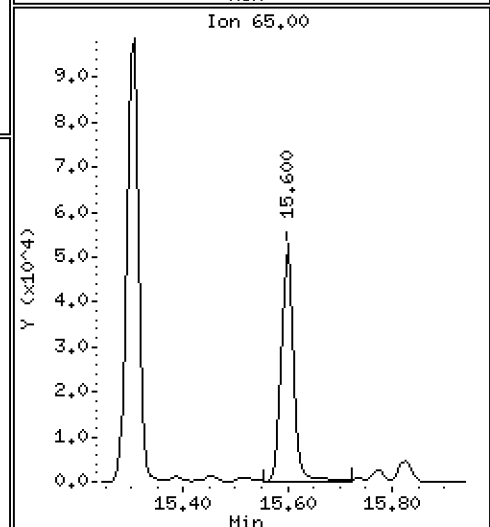
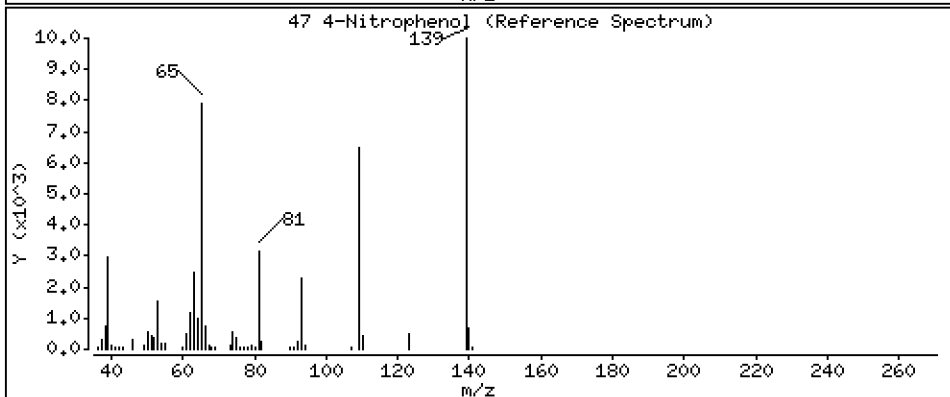
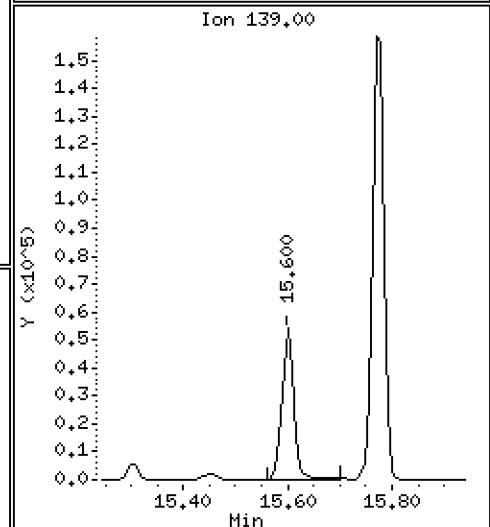
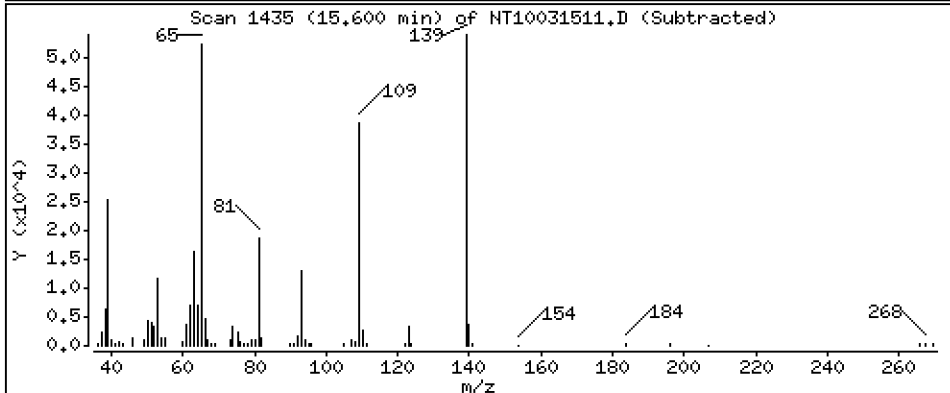
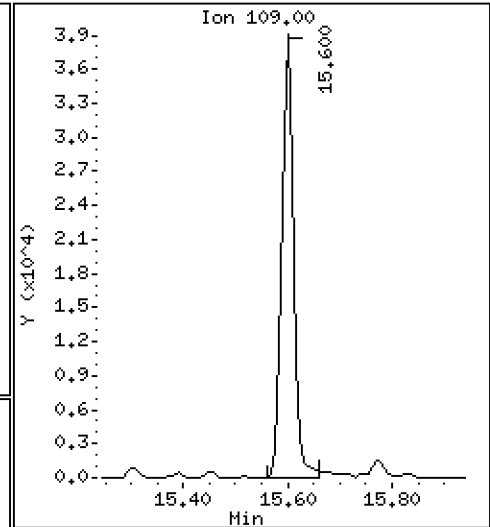
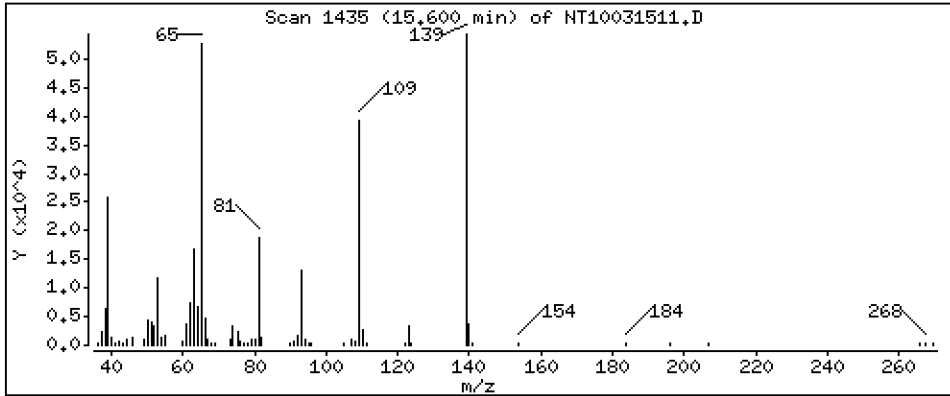
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 3,966 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

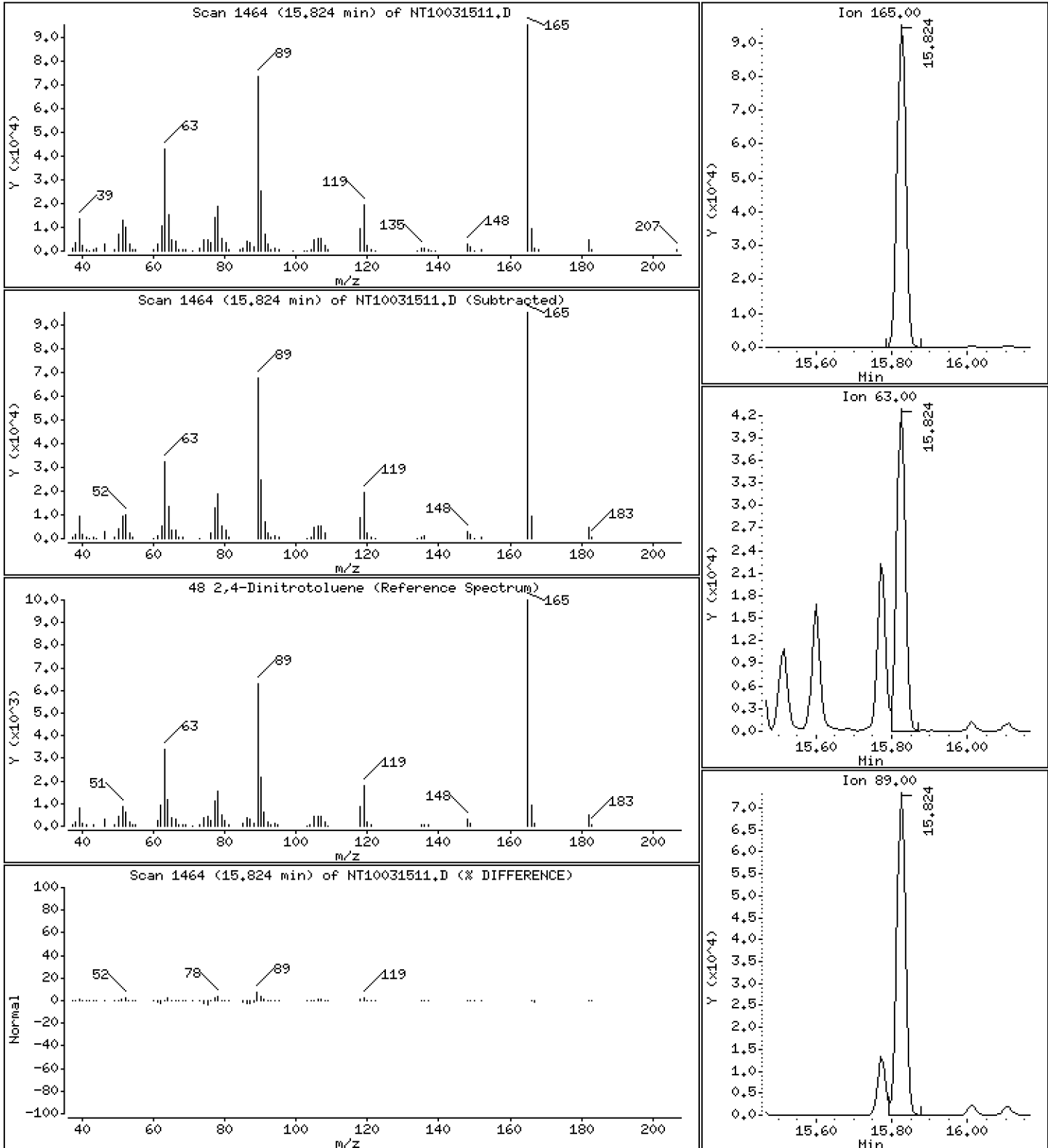
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 4,510 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

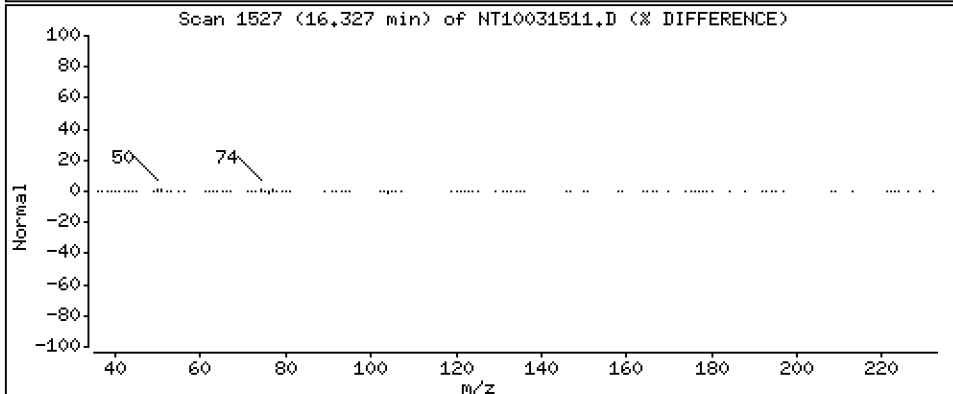
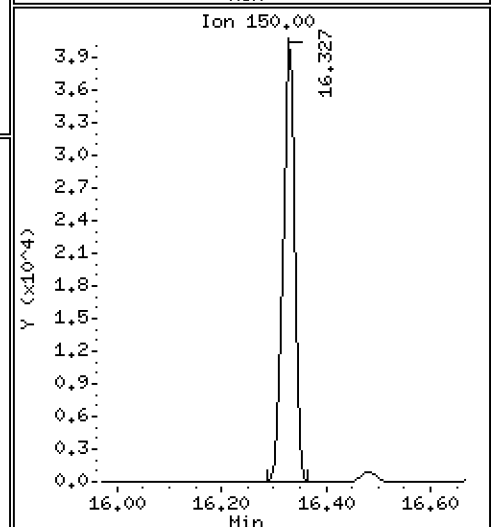
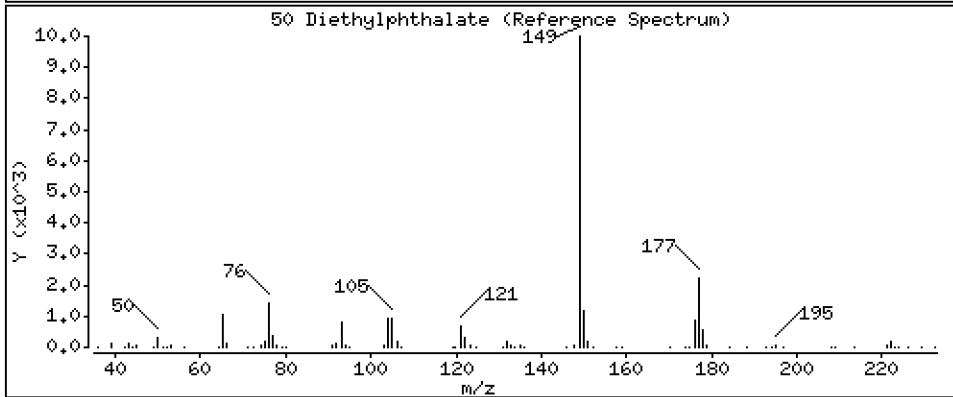
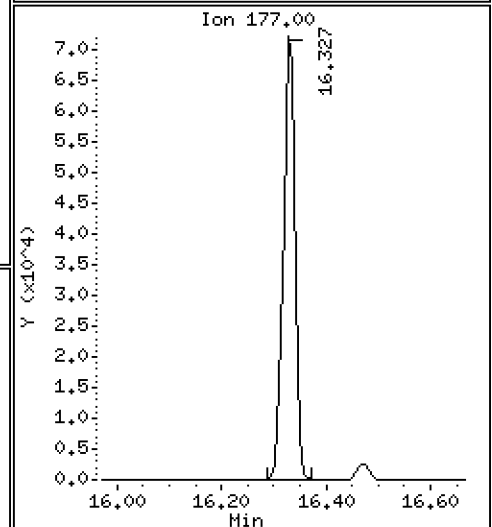
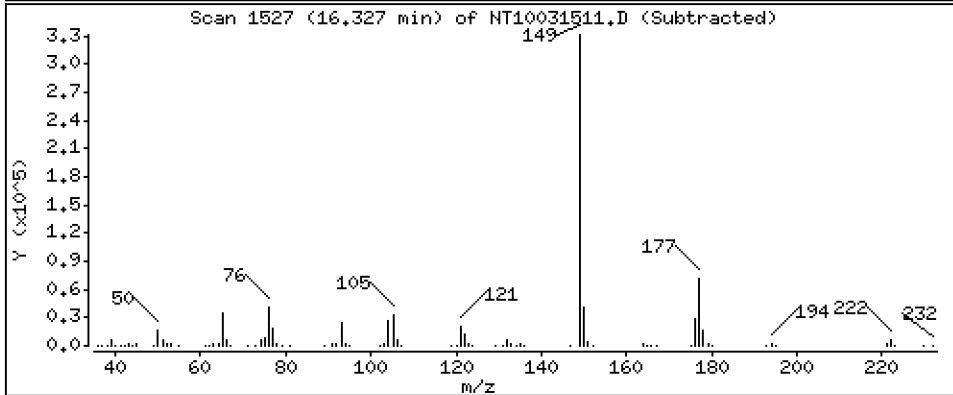
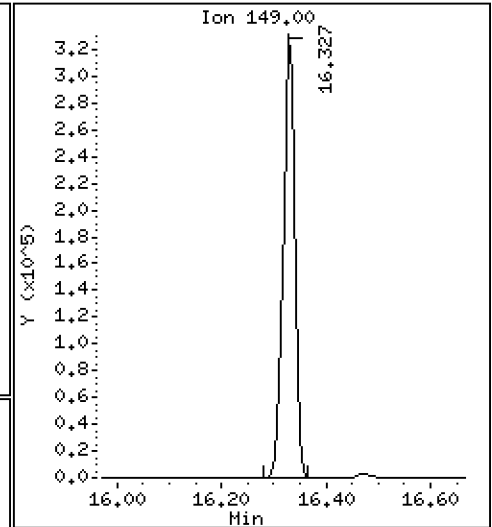
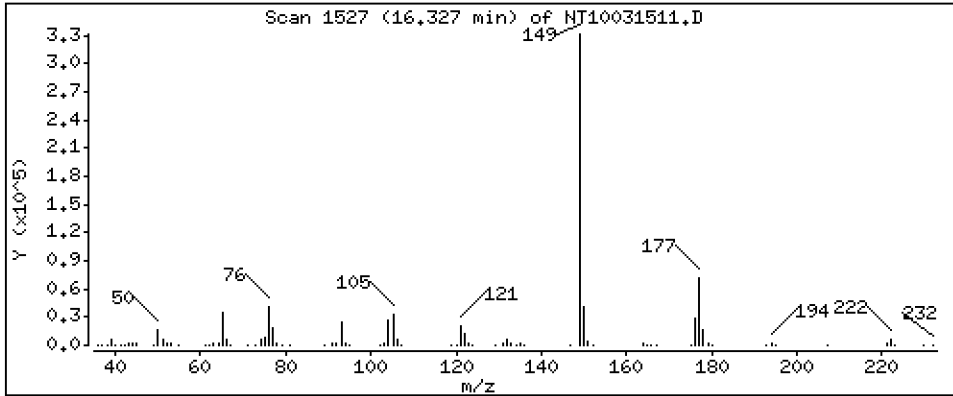
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,209 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

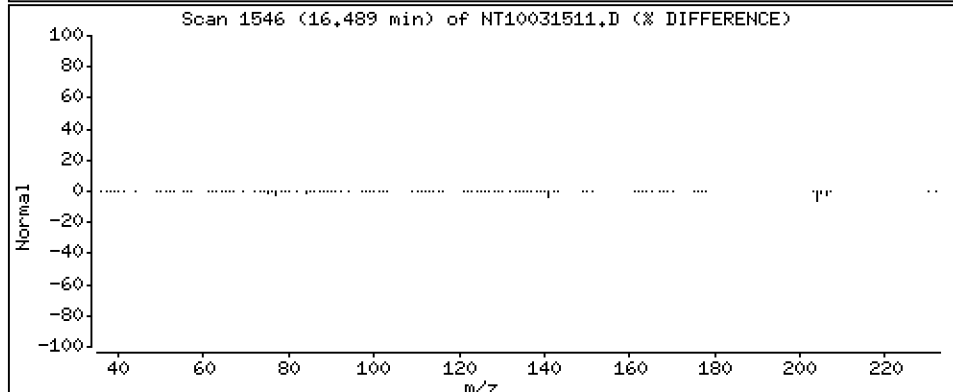
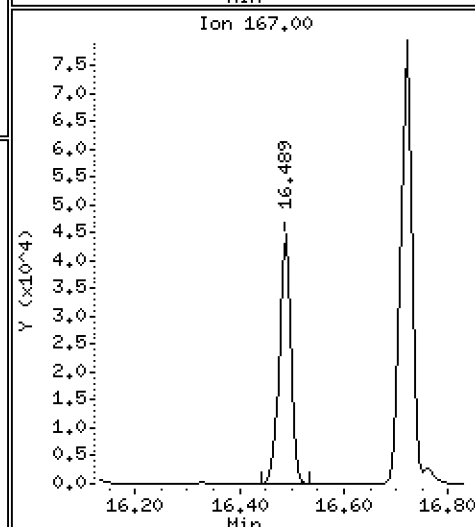
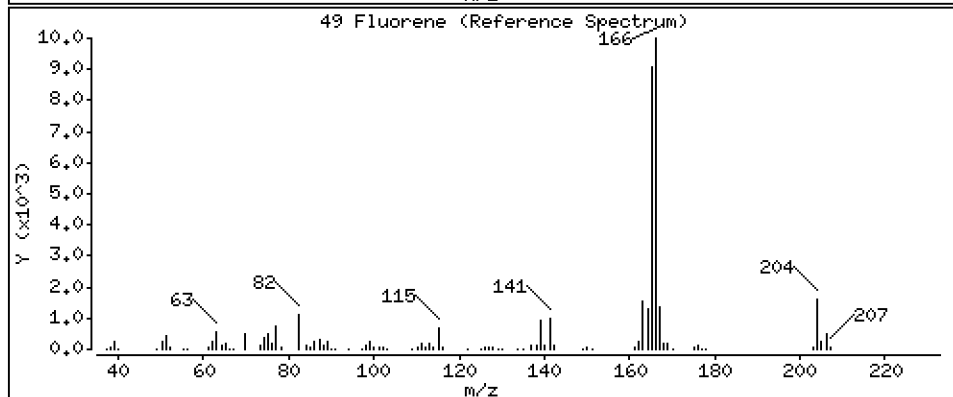
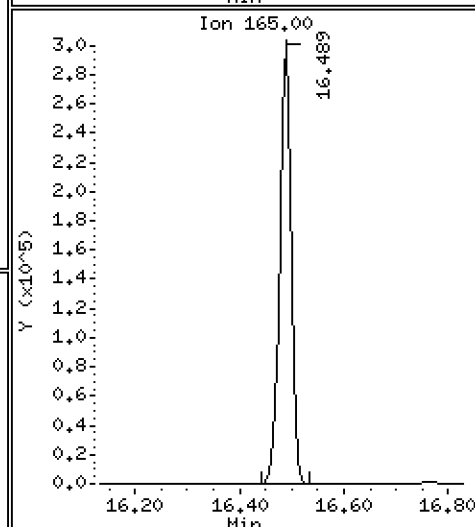
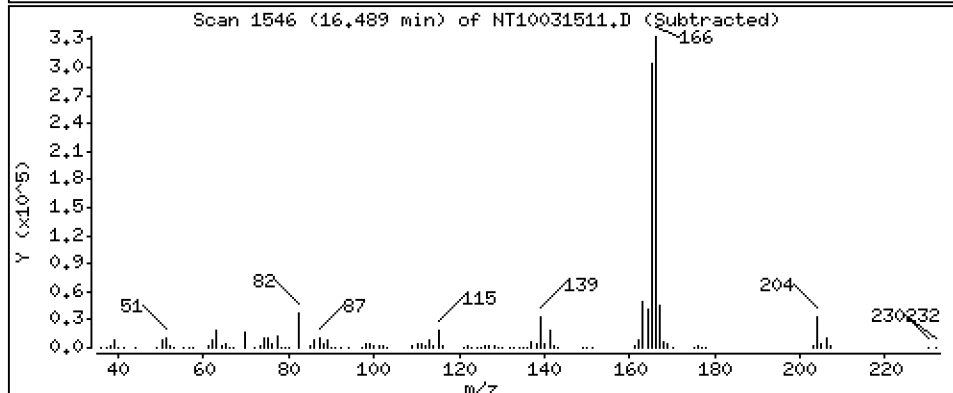
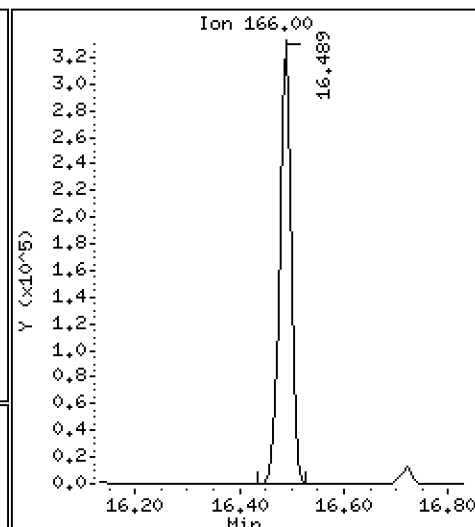
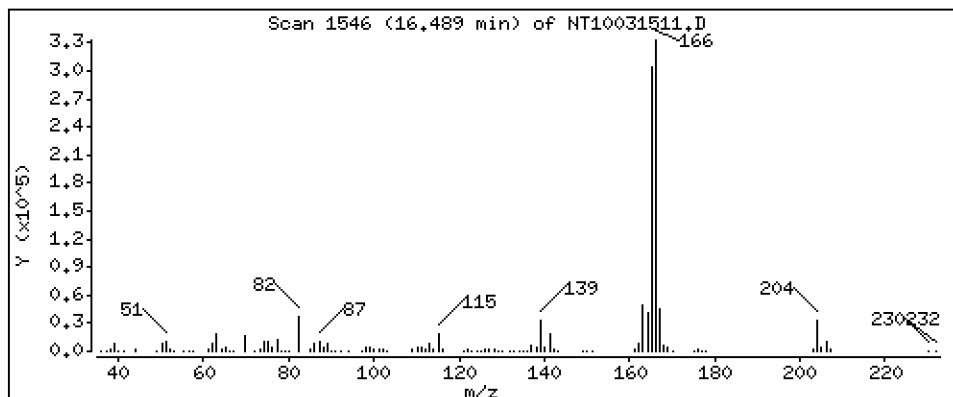
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,708 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

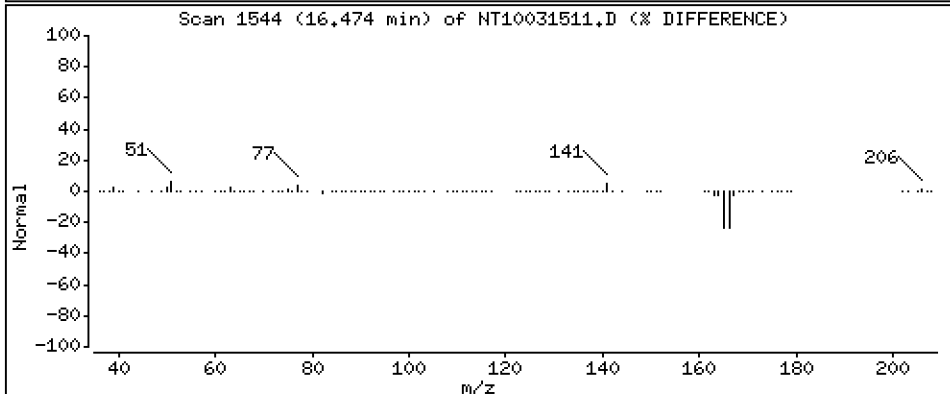
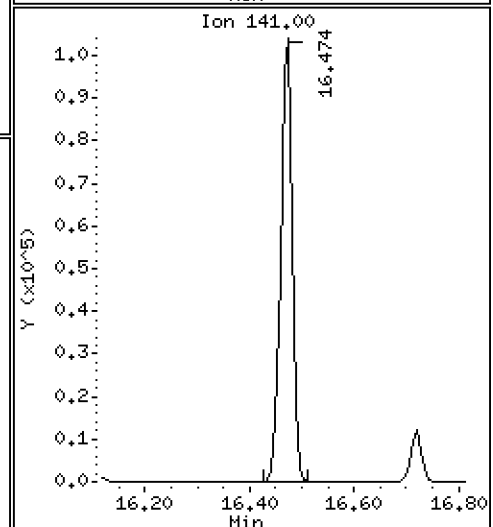
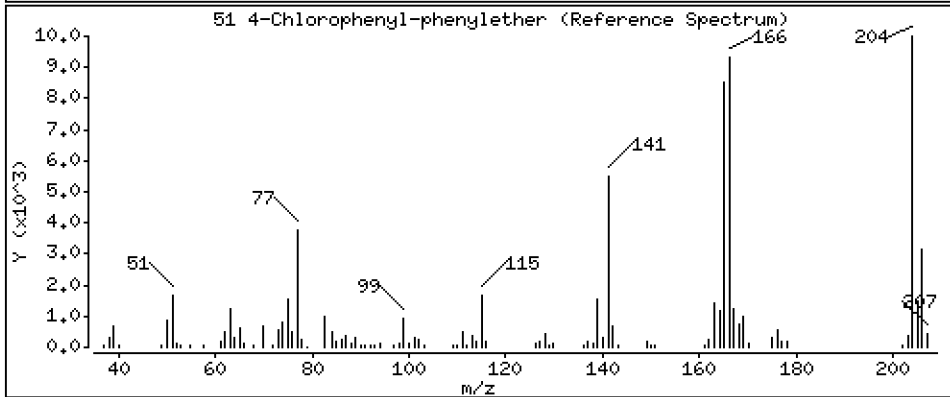
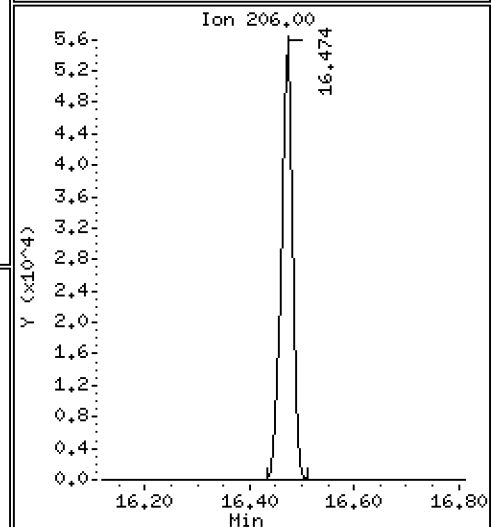
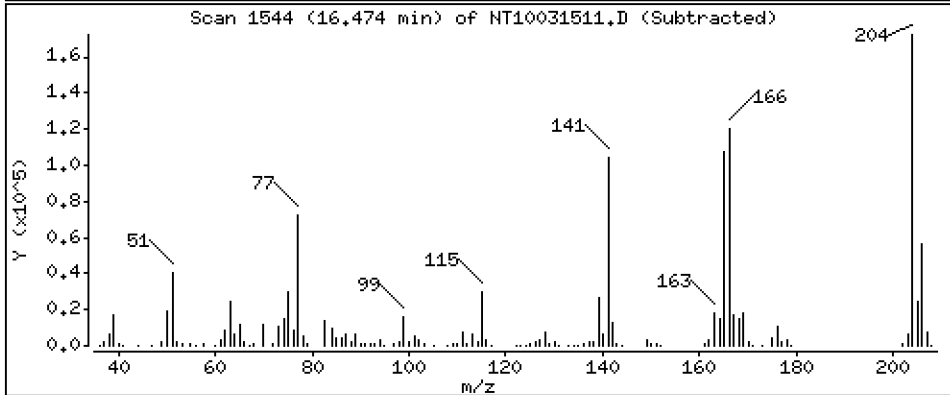
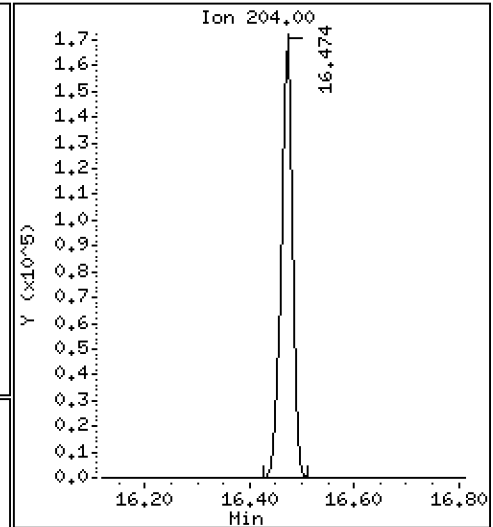
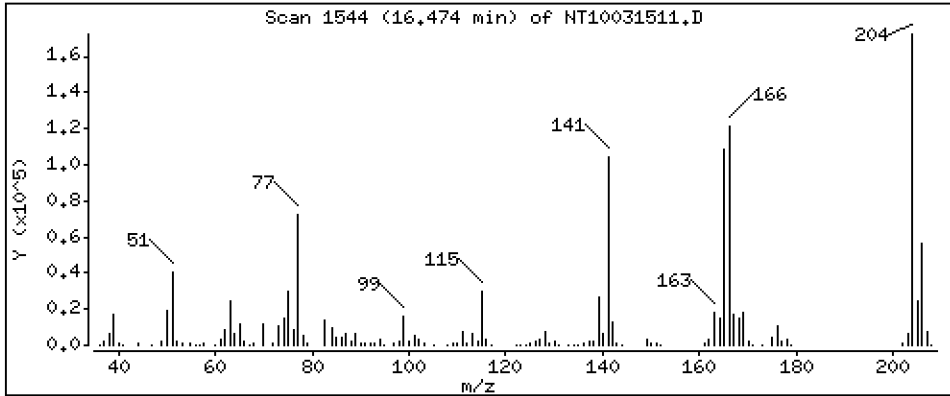
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,993 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

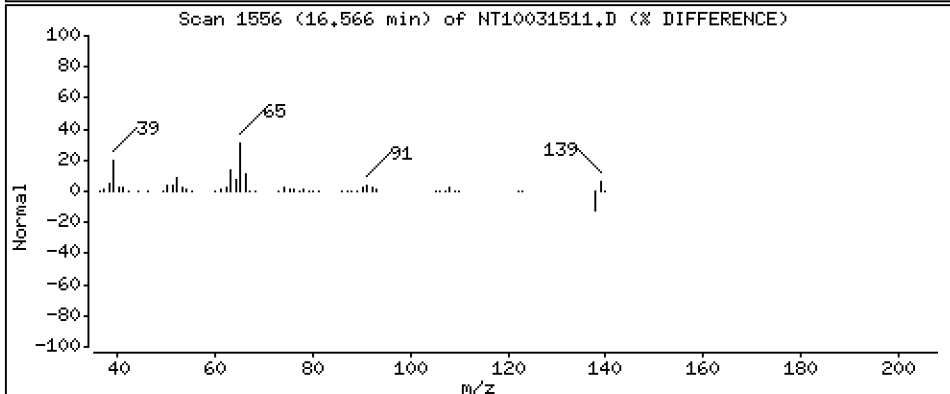
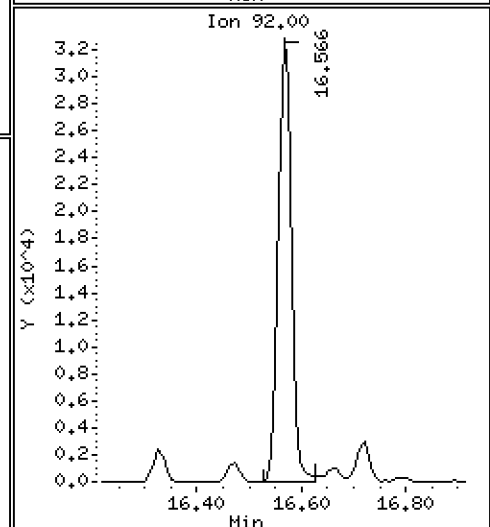
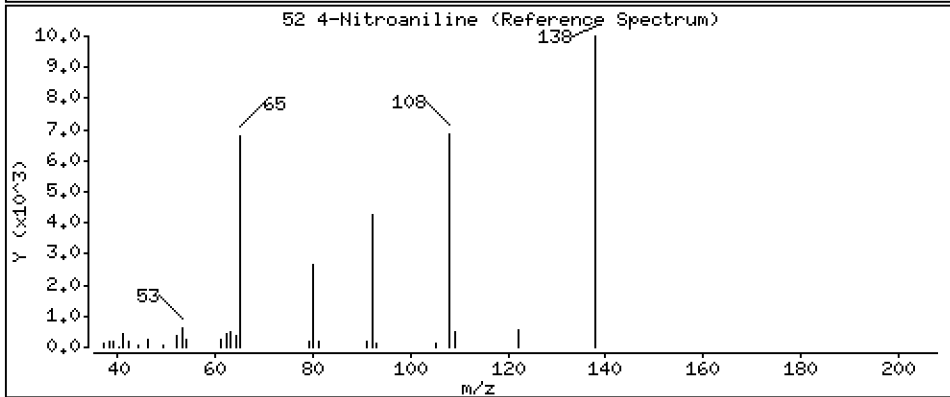
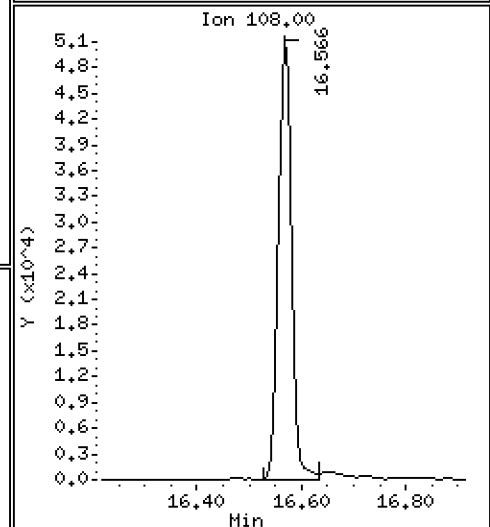
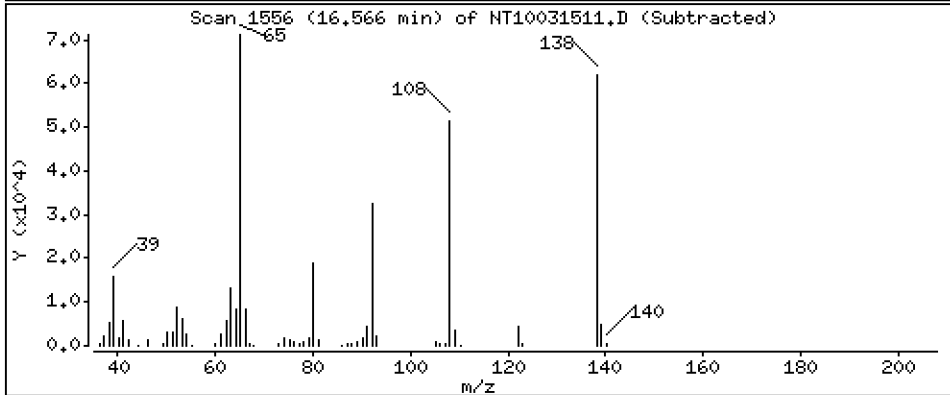
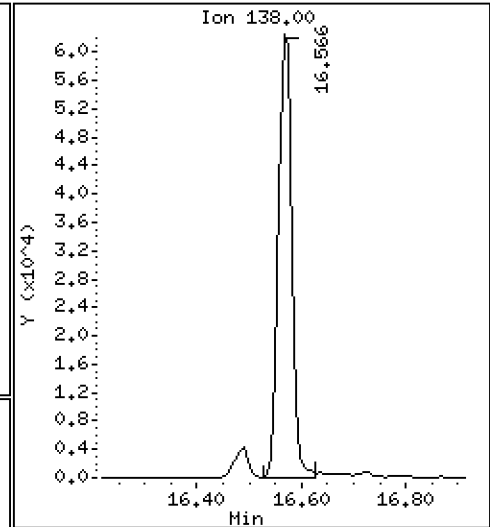
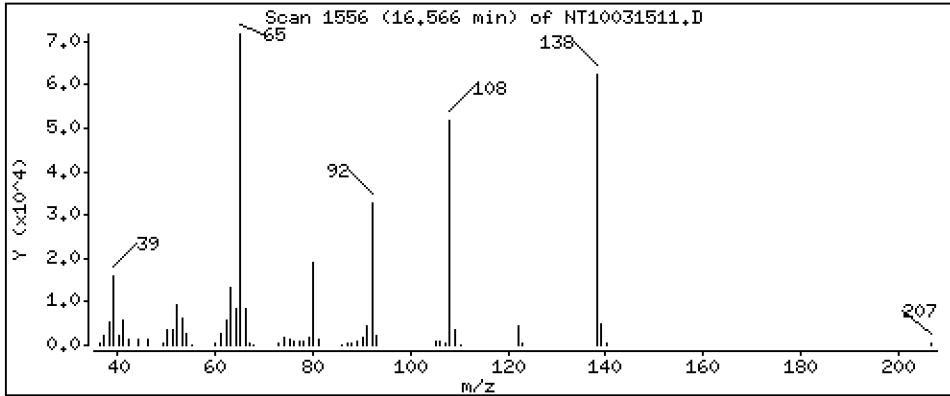
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 4,925 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

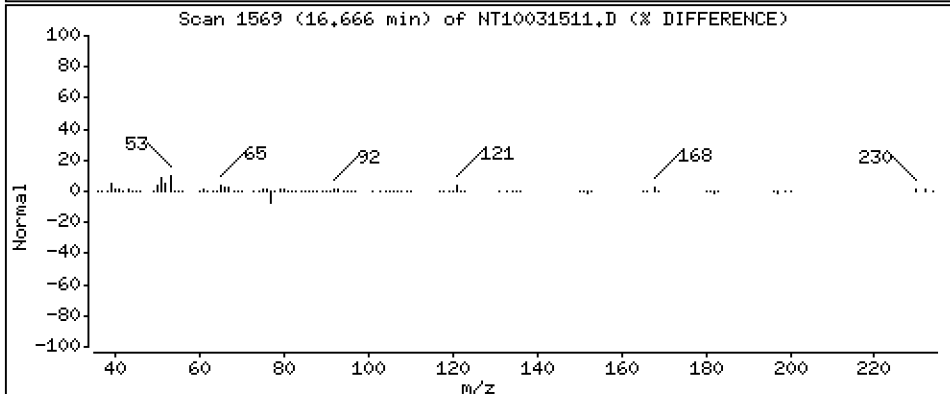
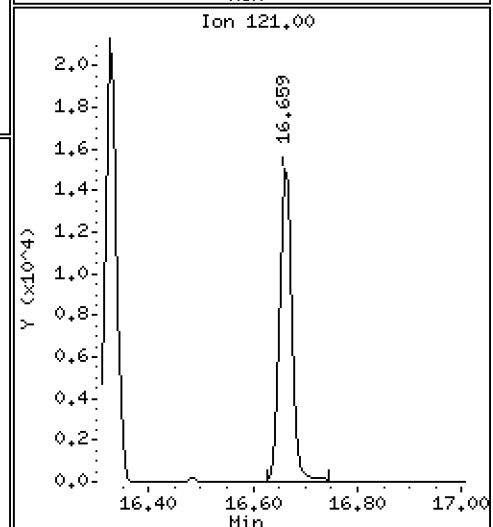
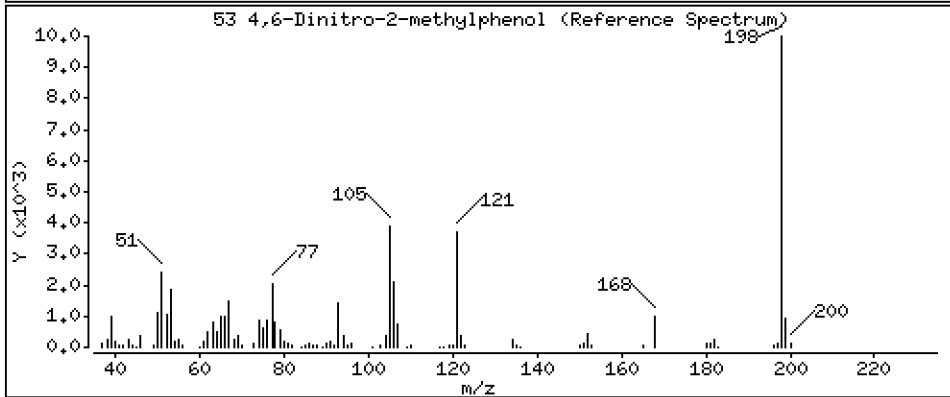
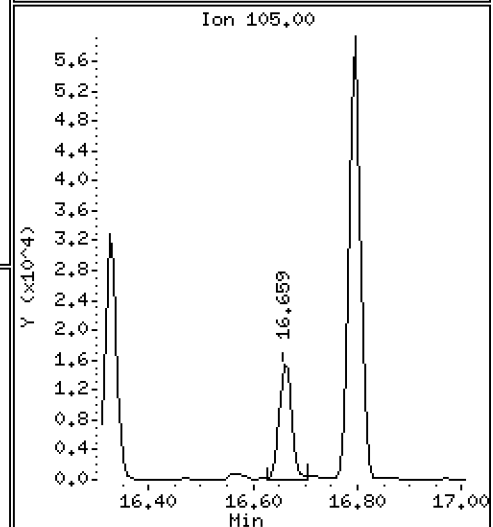
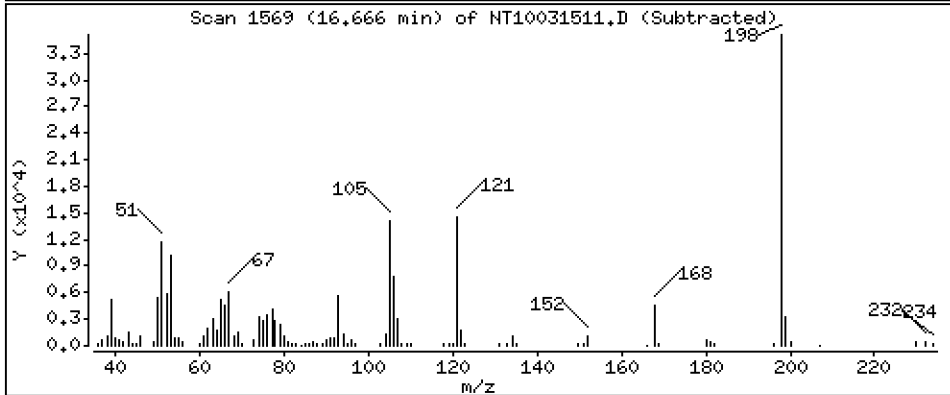
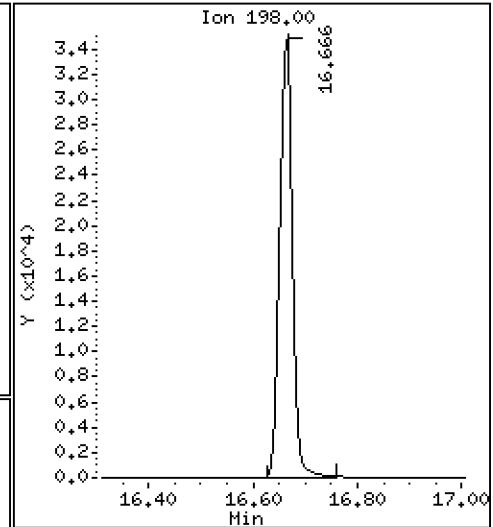
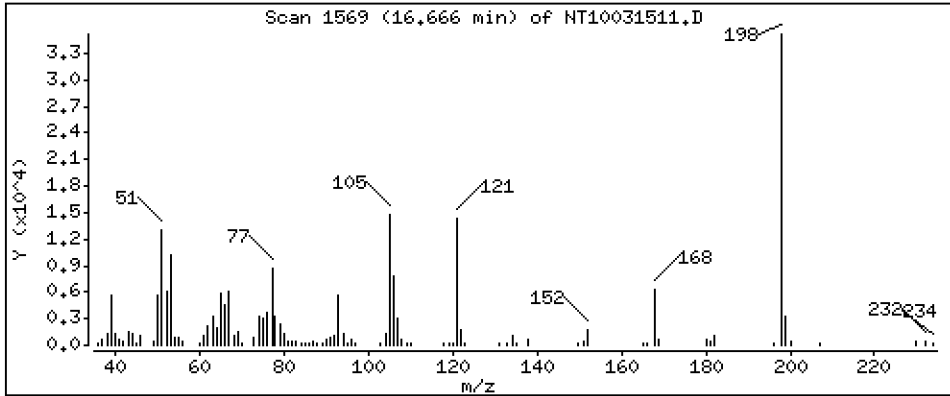
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 3.515 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

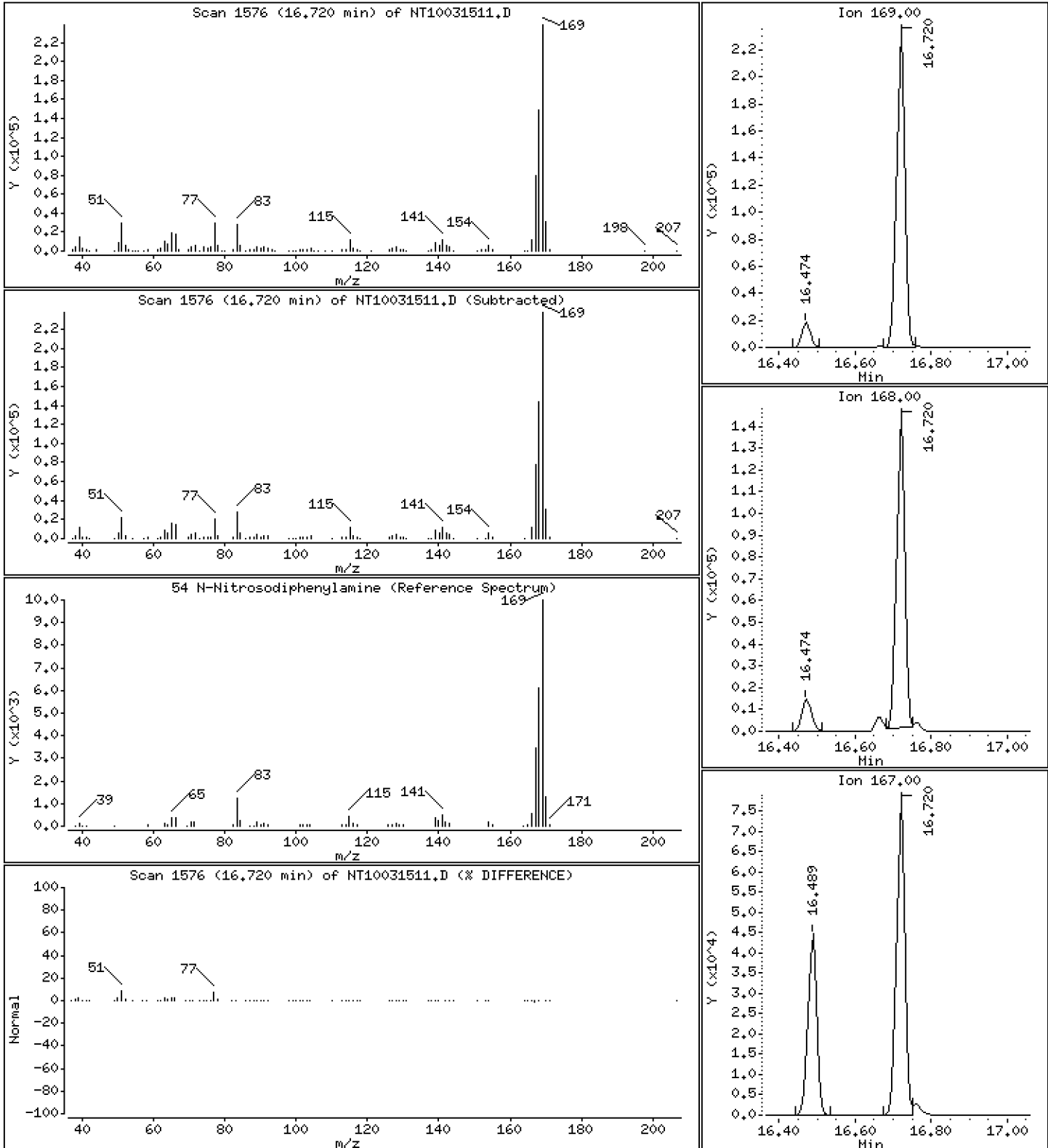
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,802 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

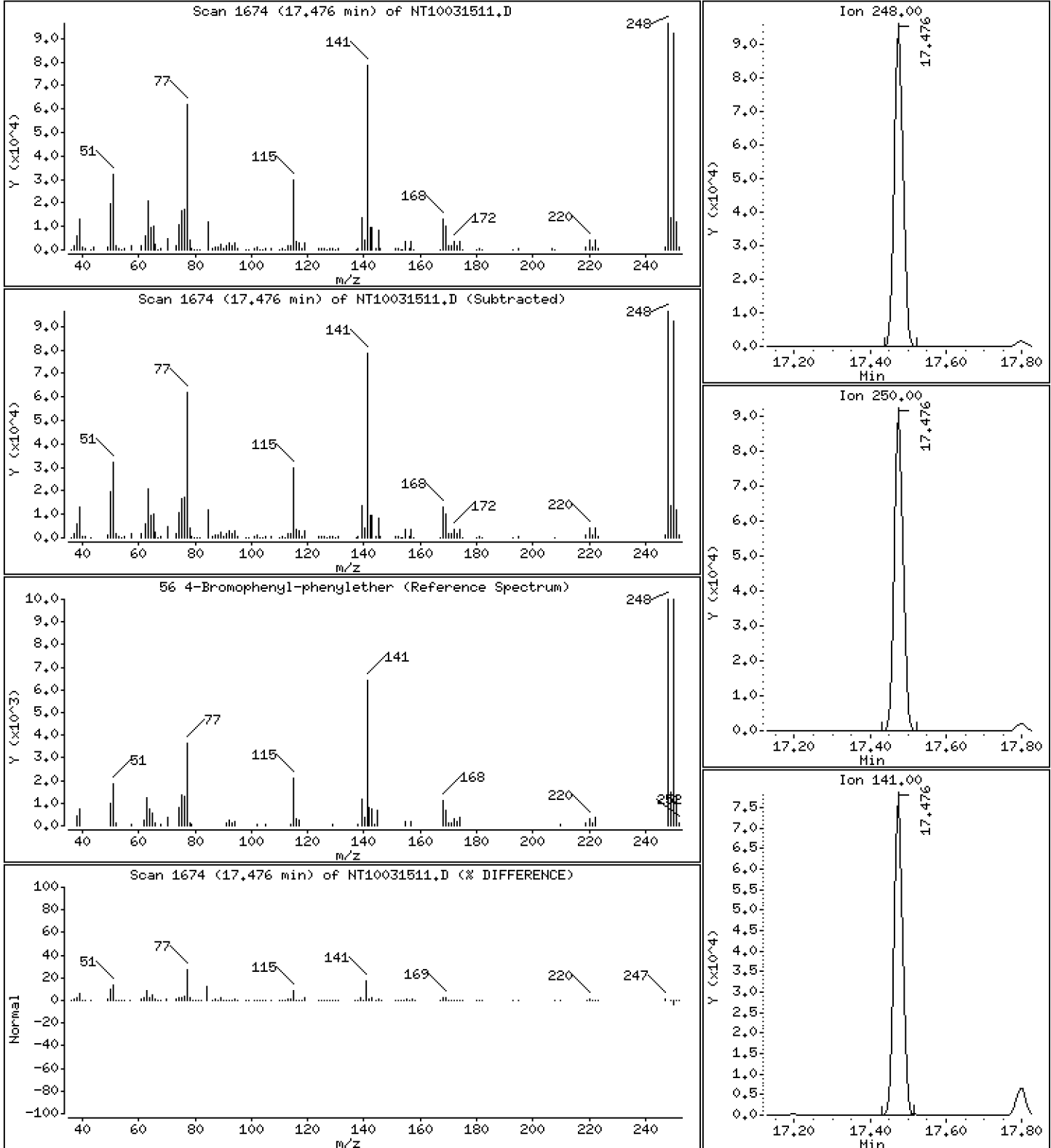
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,060 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

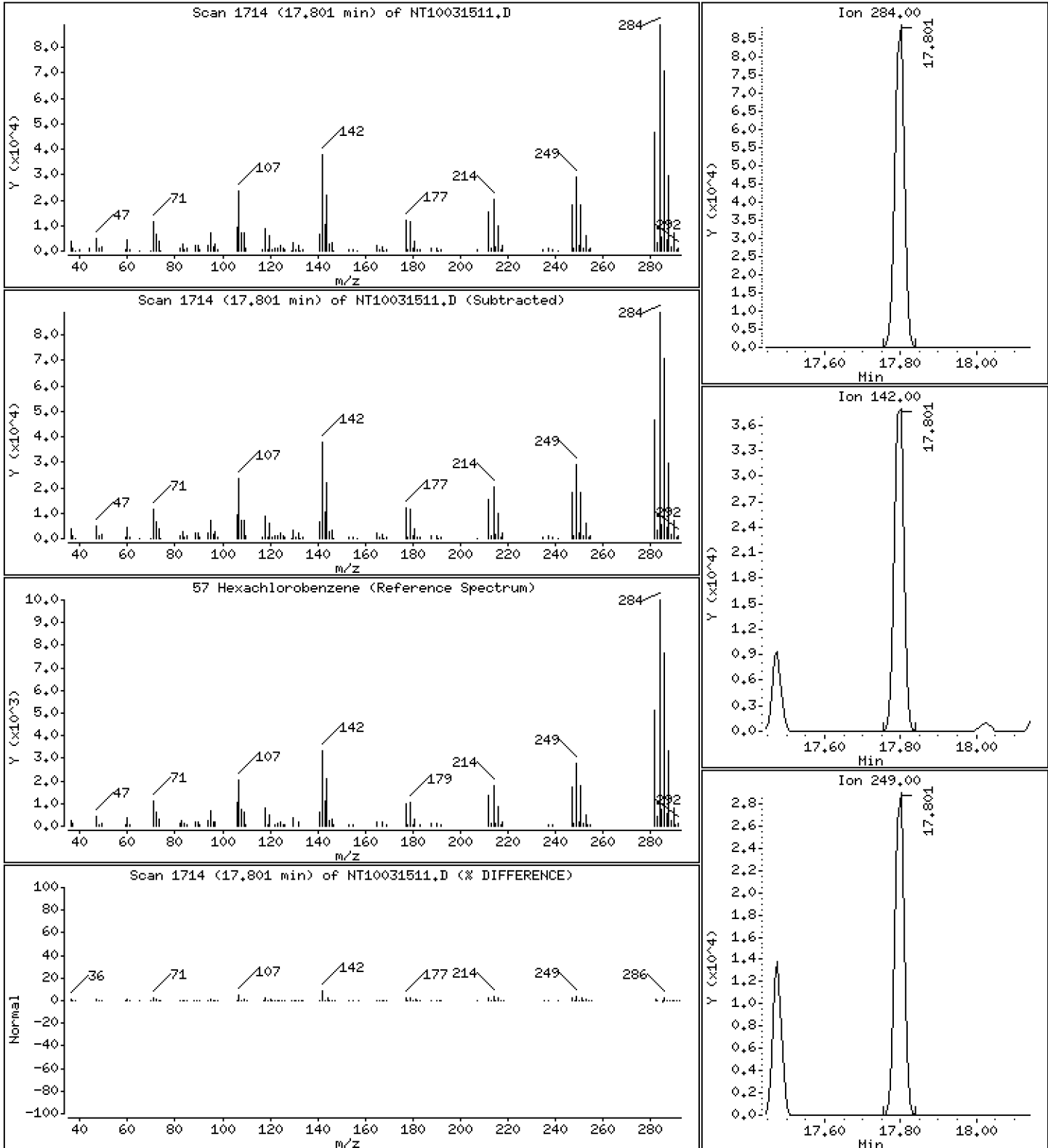
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,596 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

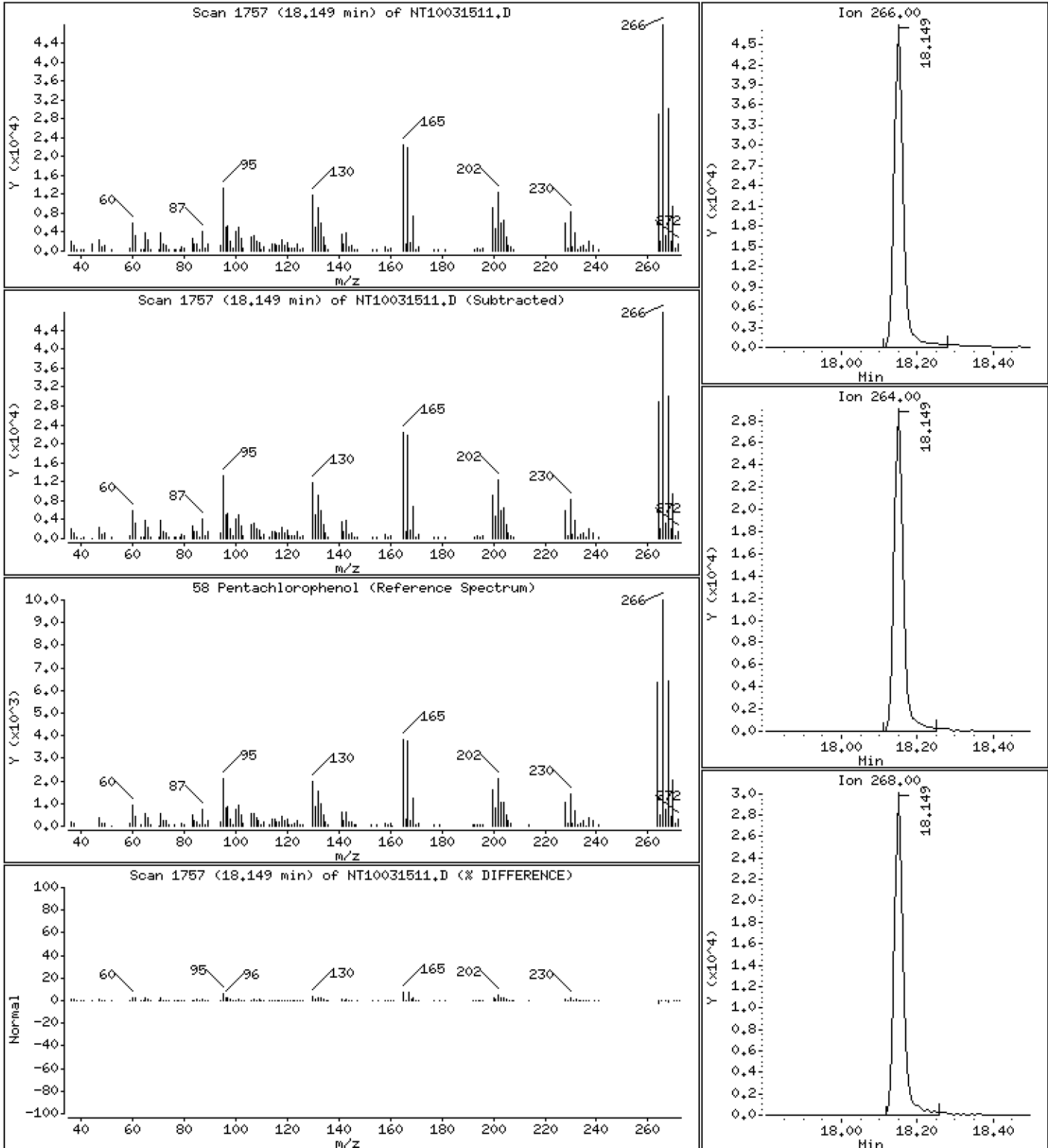
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 4,057 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

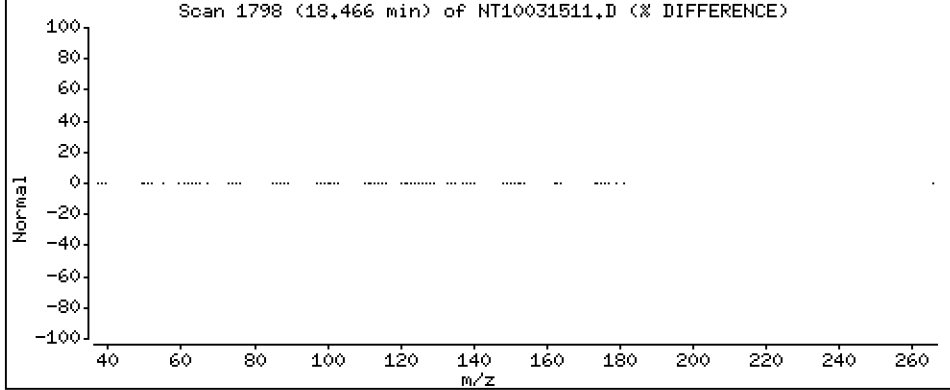
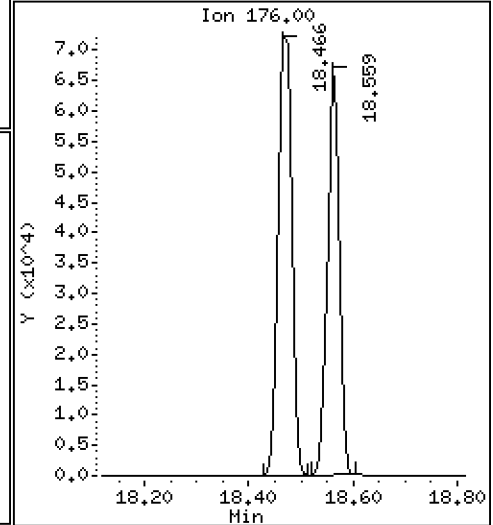
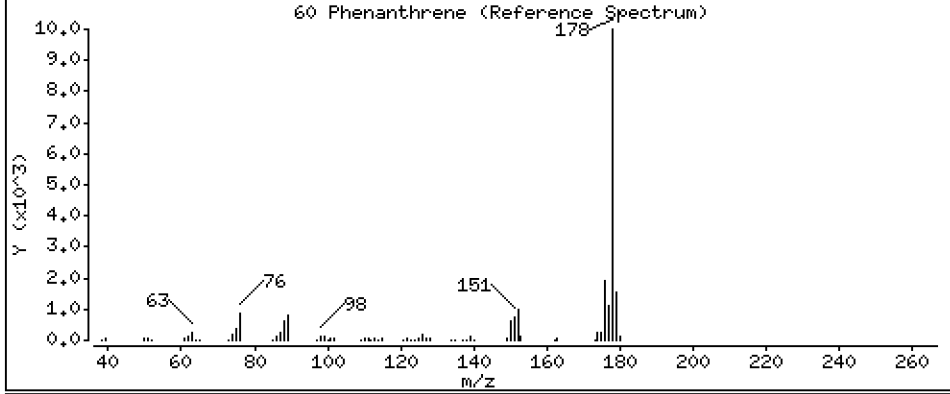
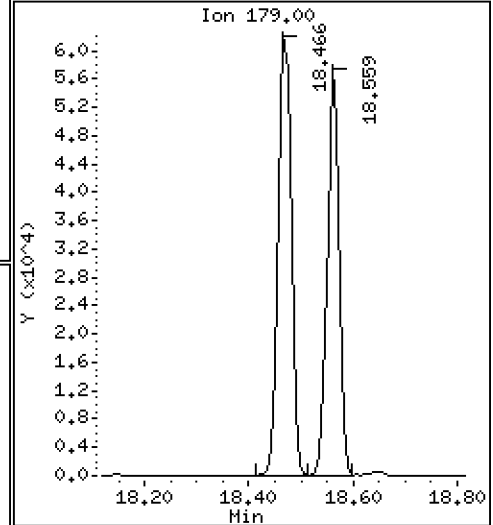
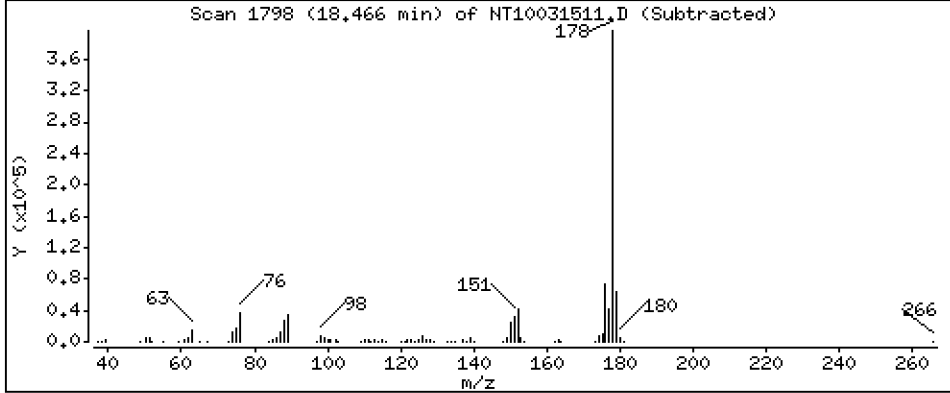
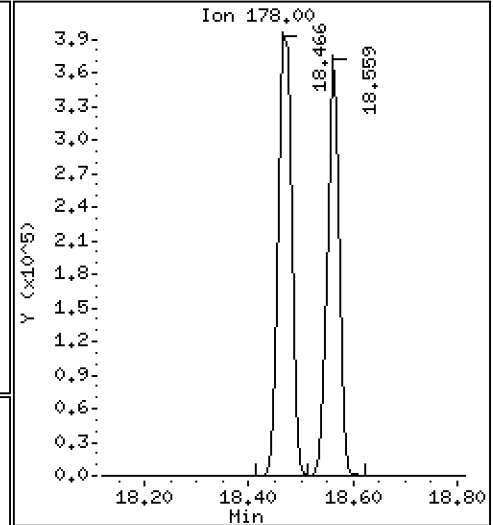
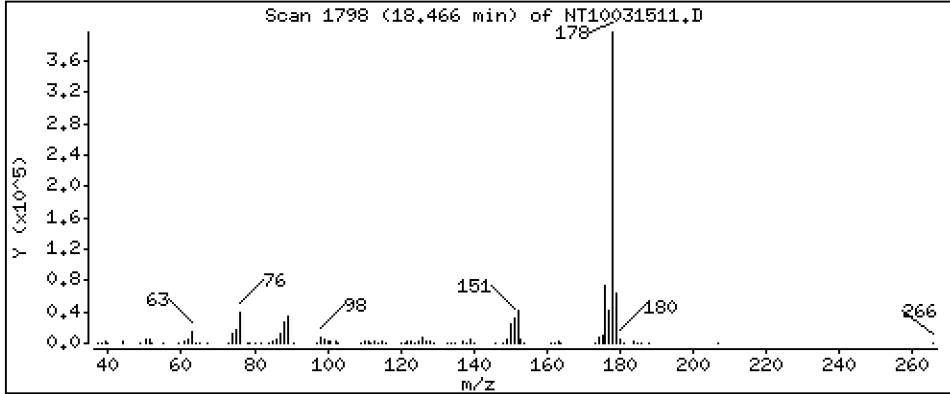
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,602 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

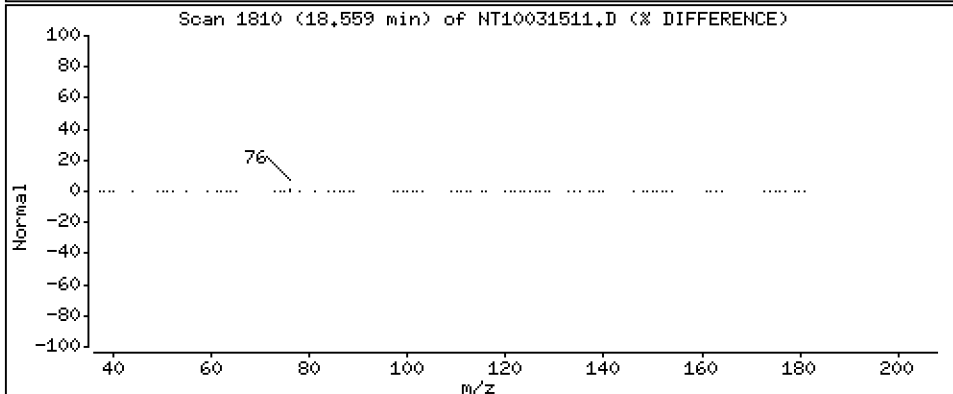
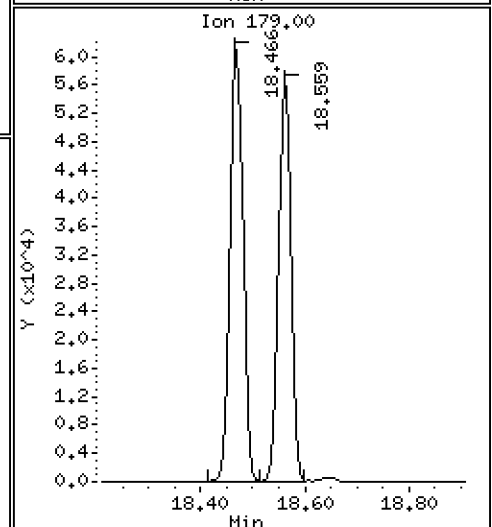
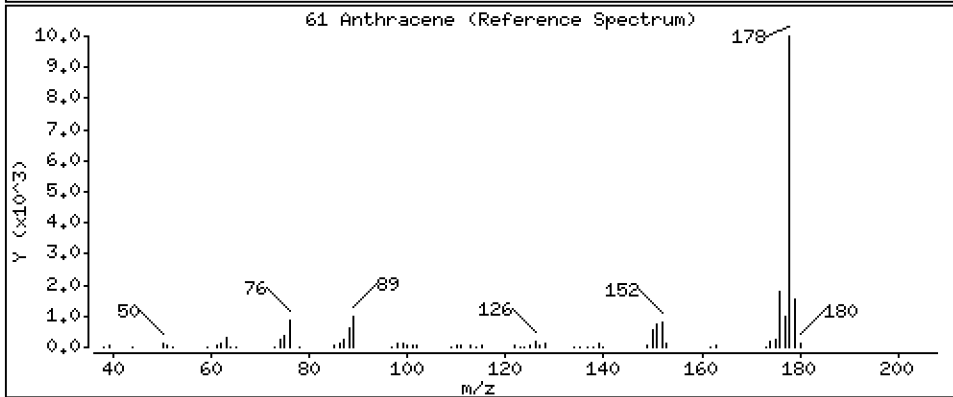
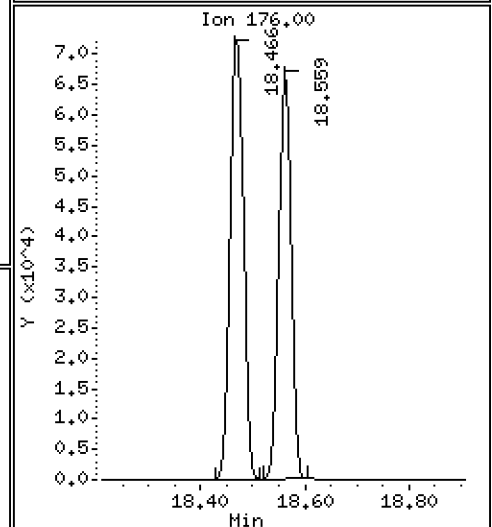
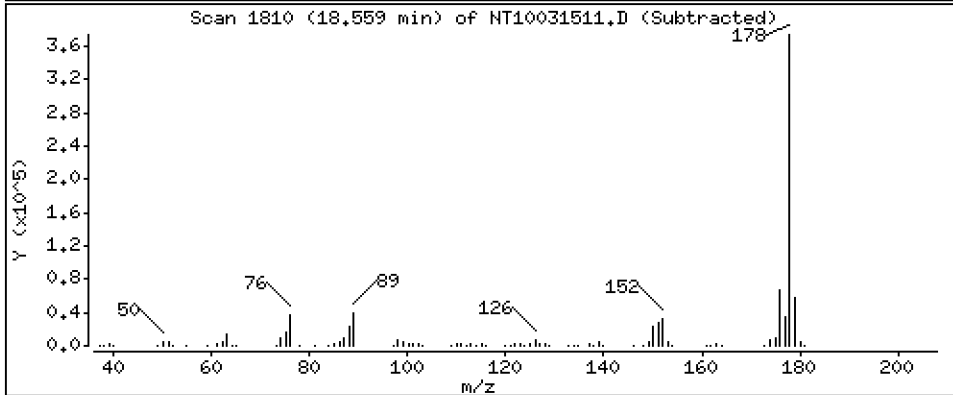
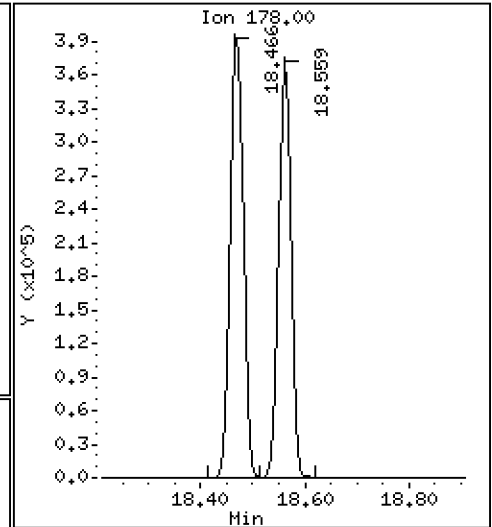
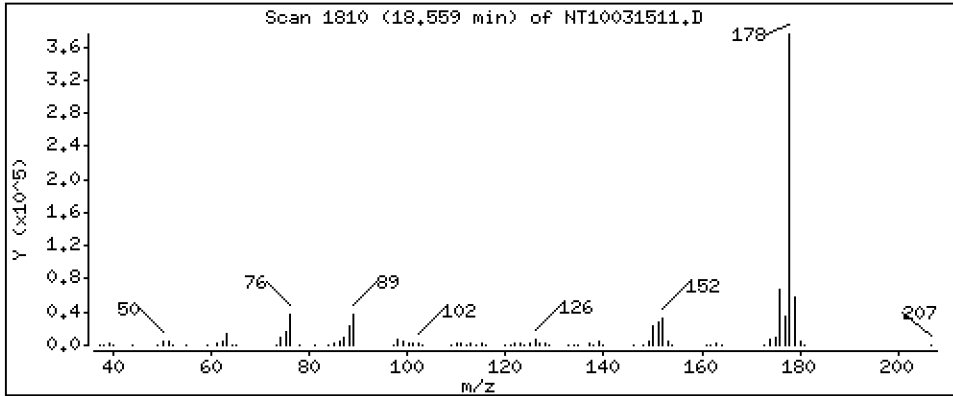
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,167 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

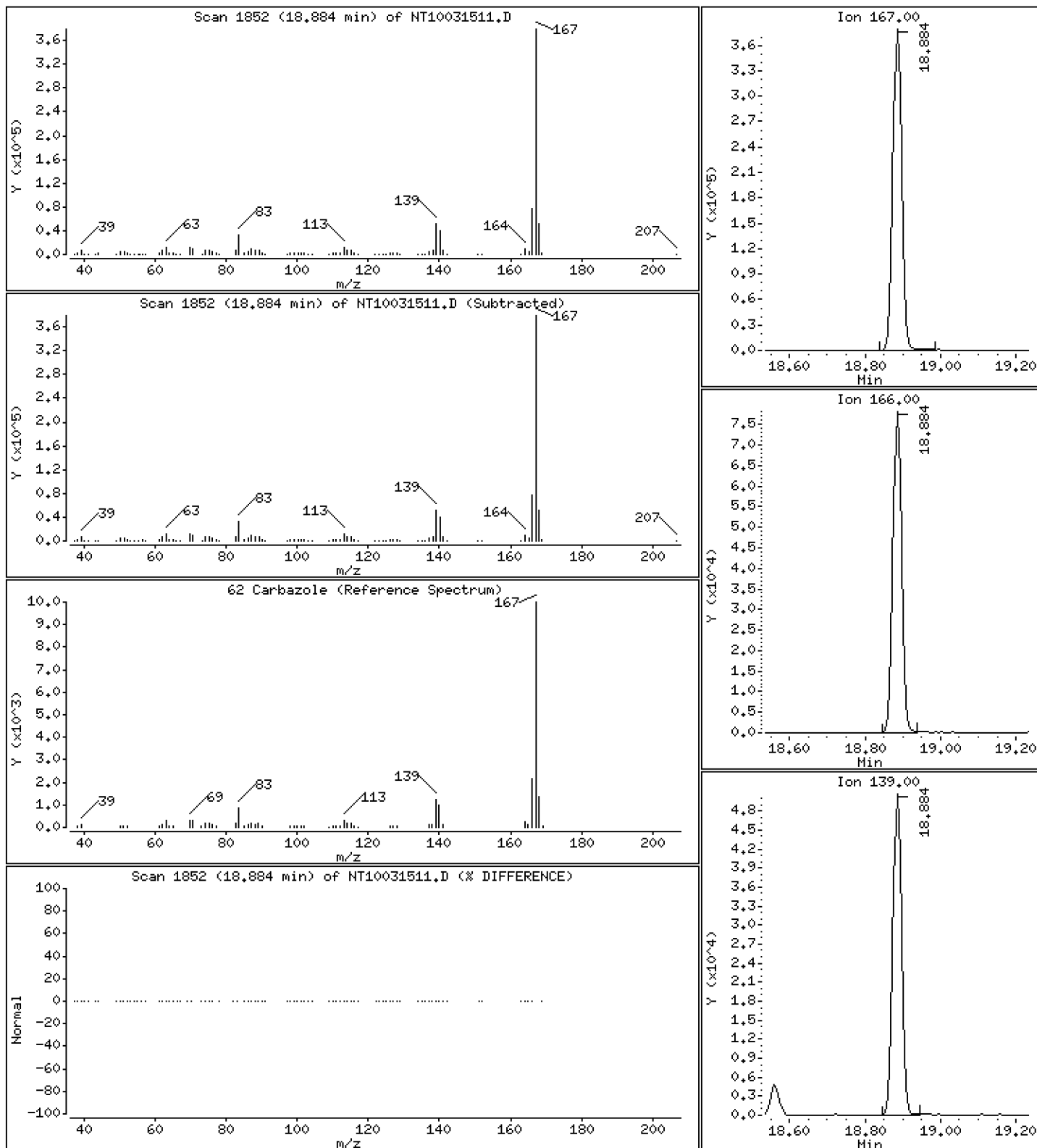
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,730 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

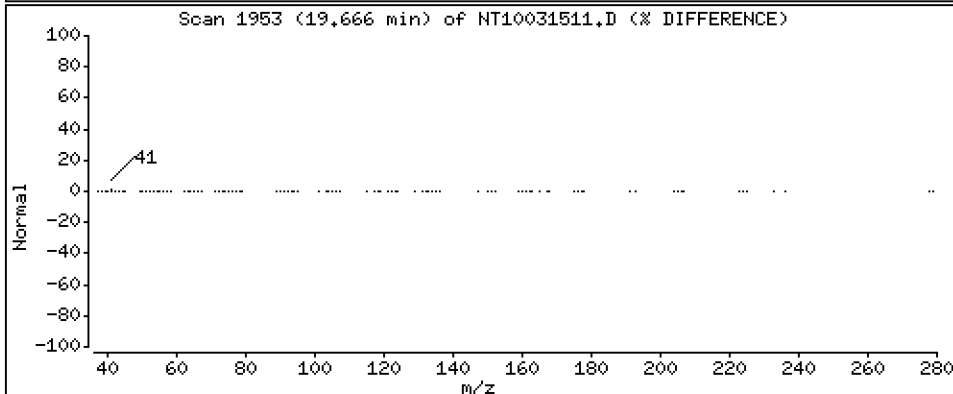
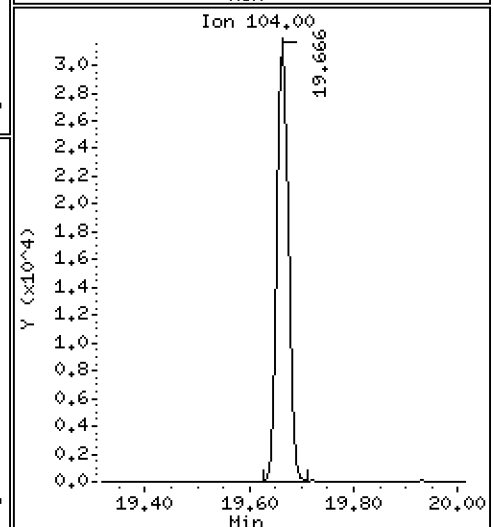
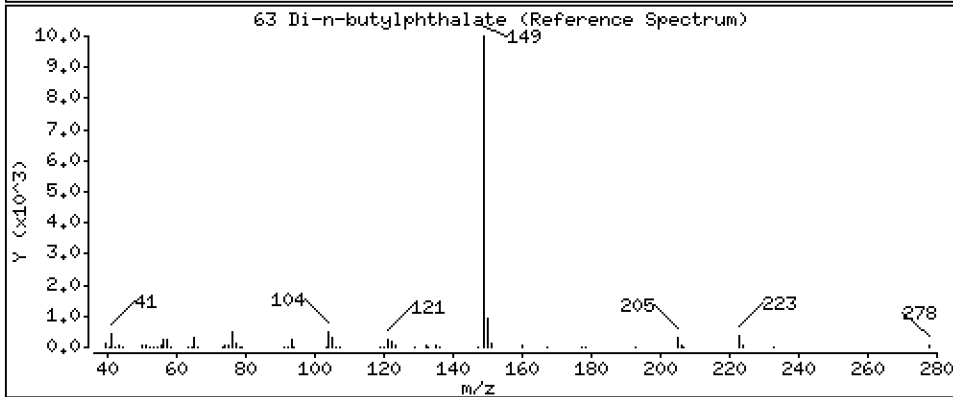
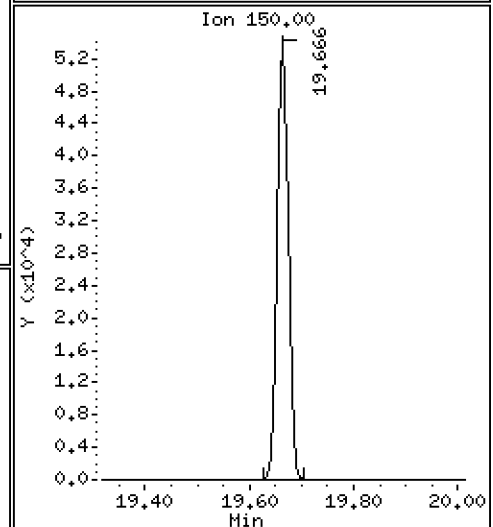
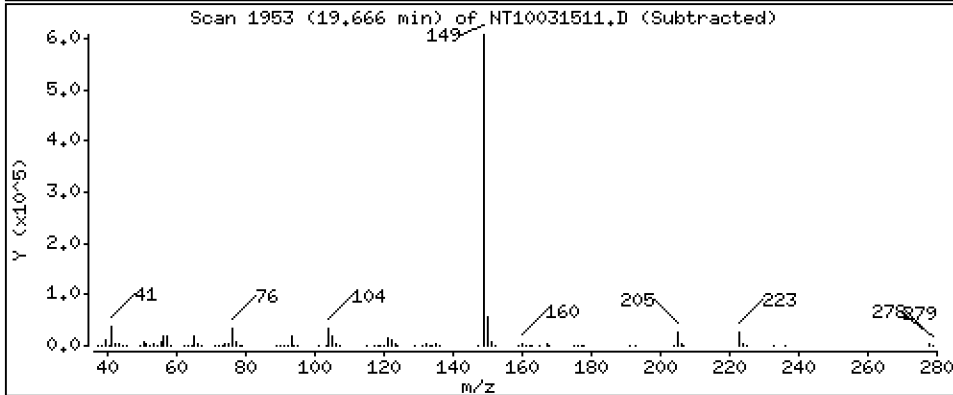
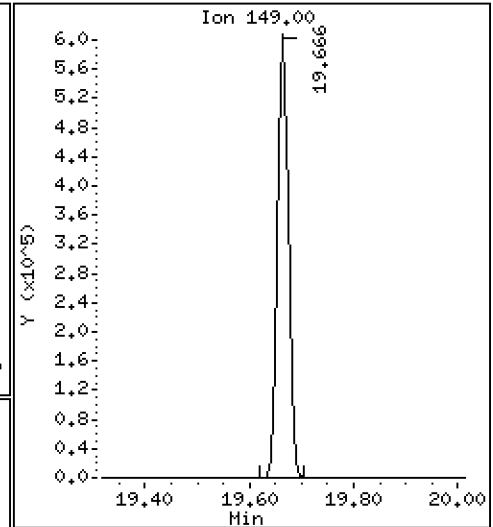
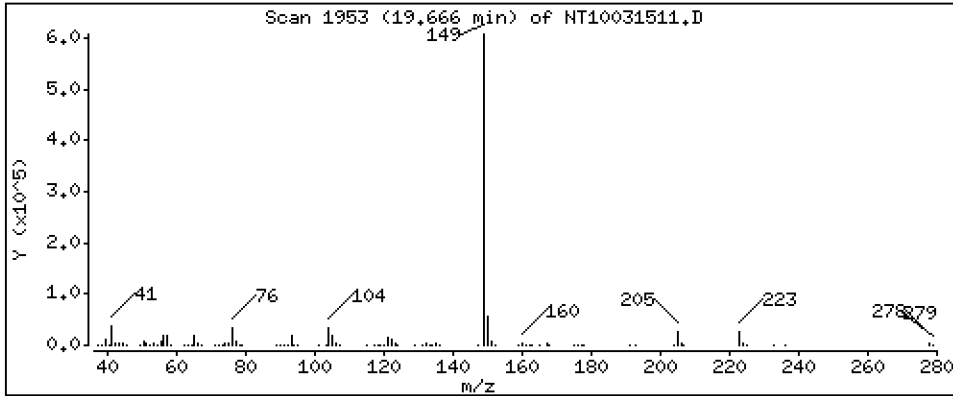
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,967 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

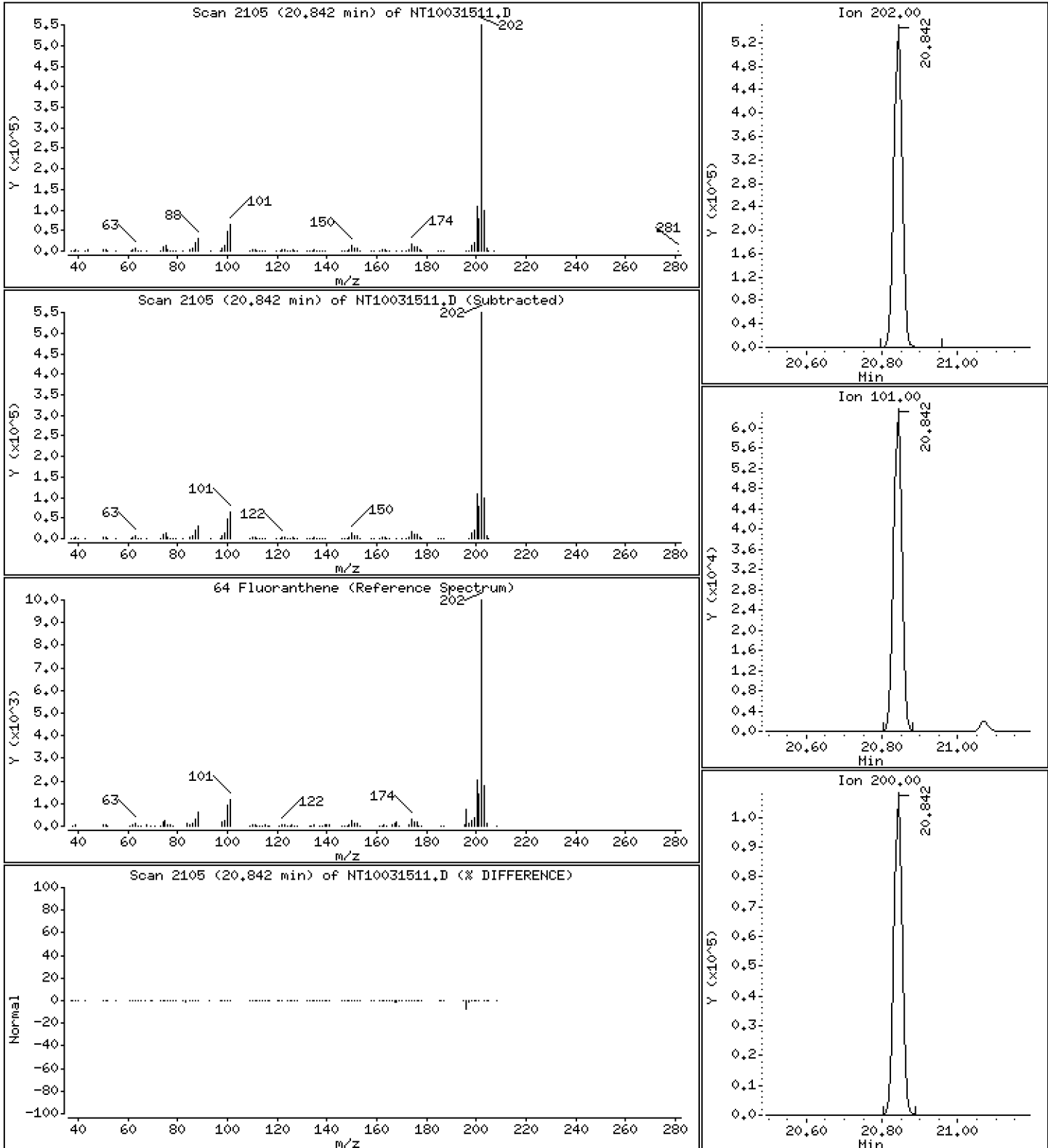
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,472 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

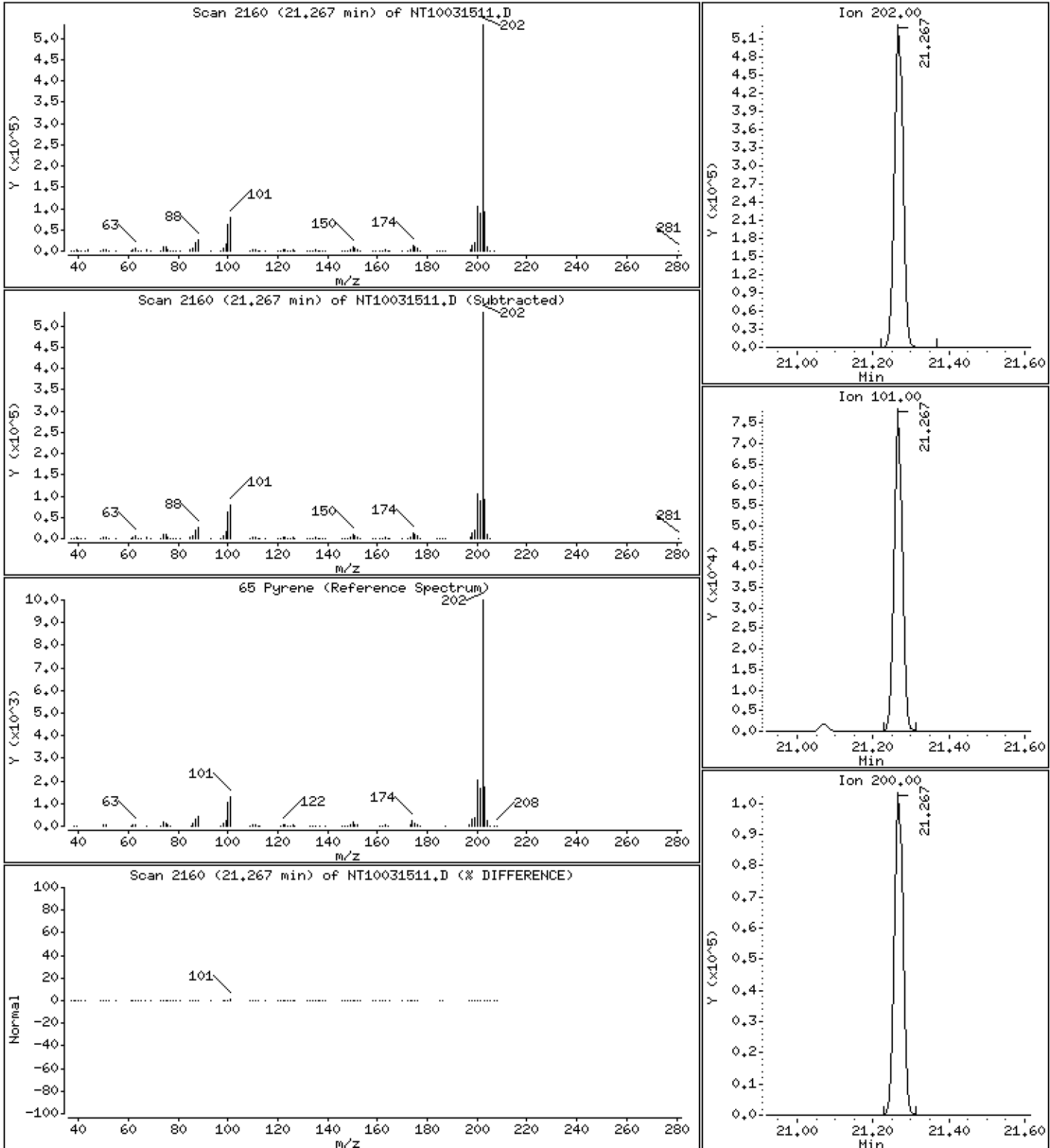
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,339 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

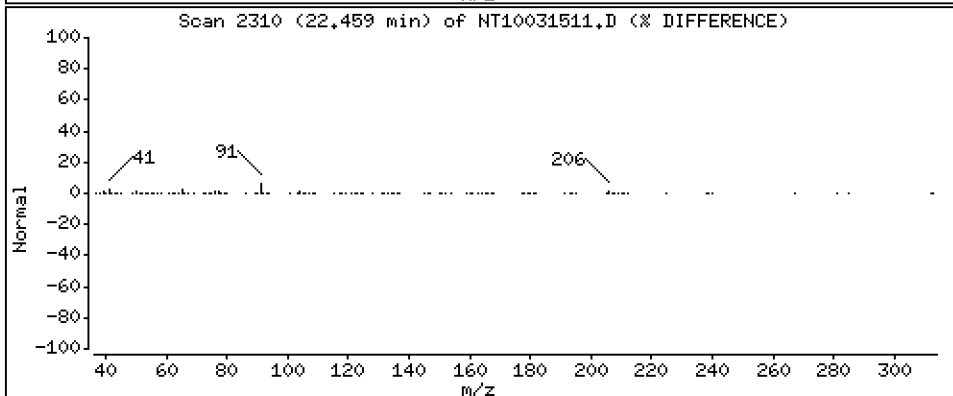
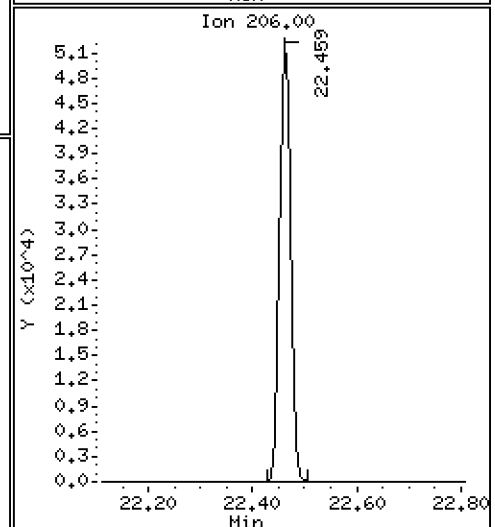
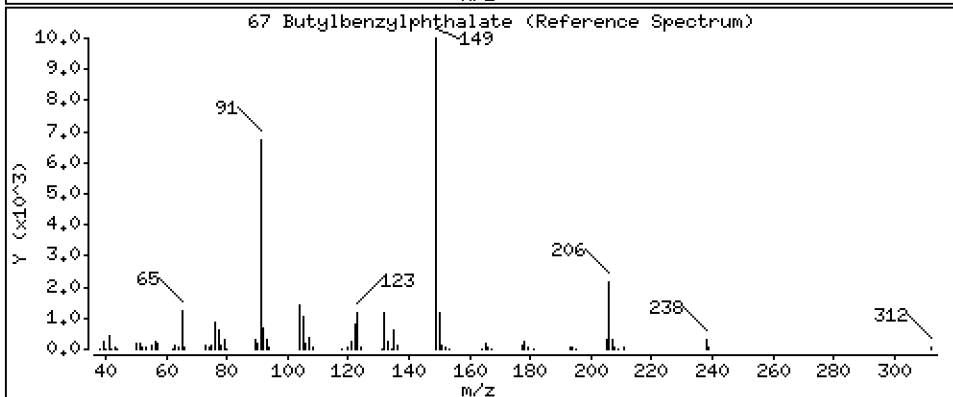
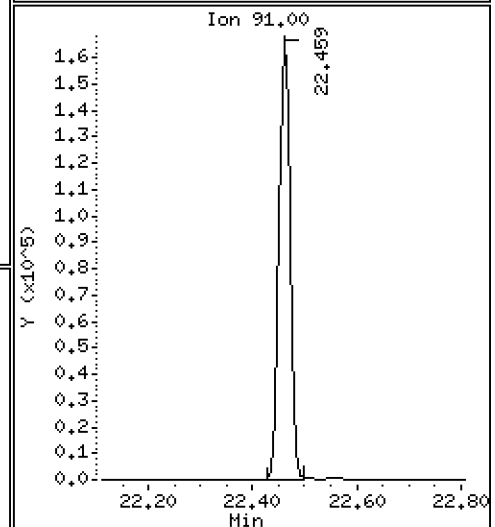
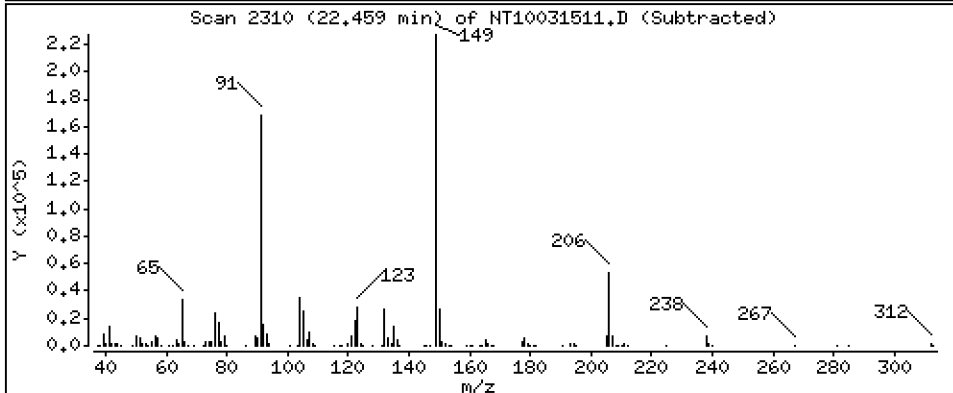
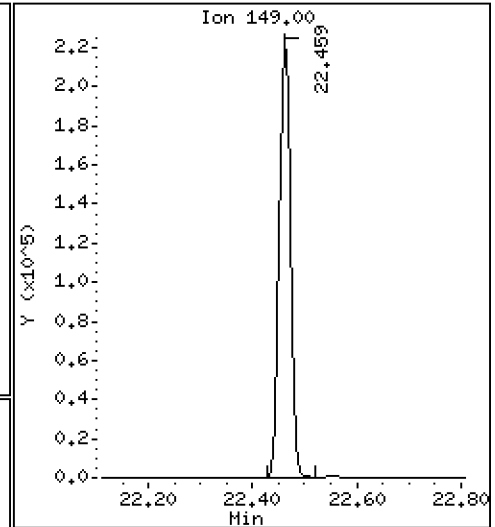
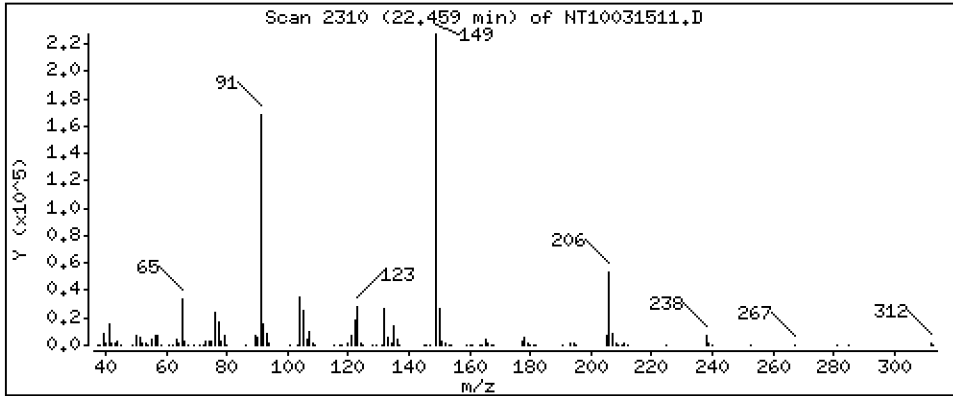
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,834 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

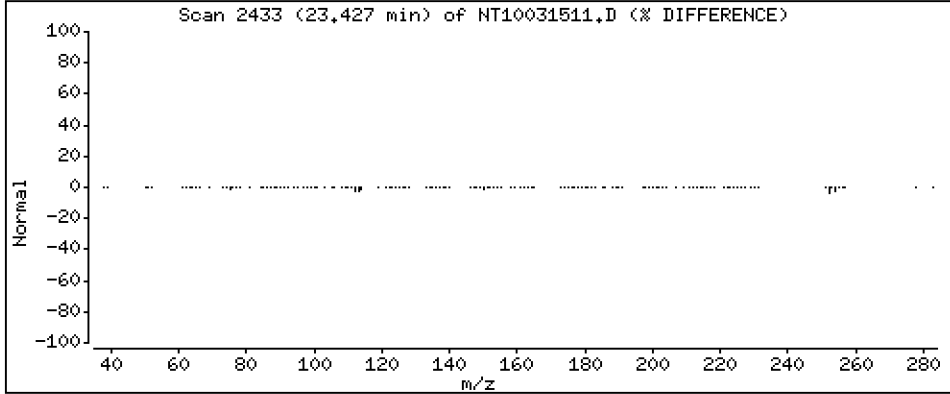
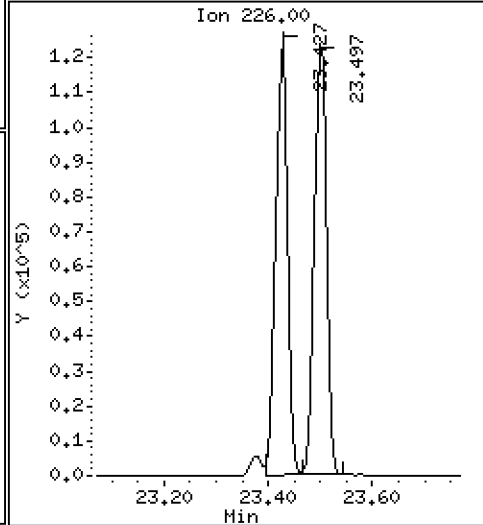
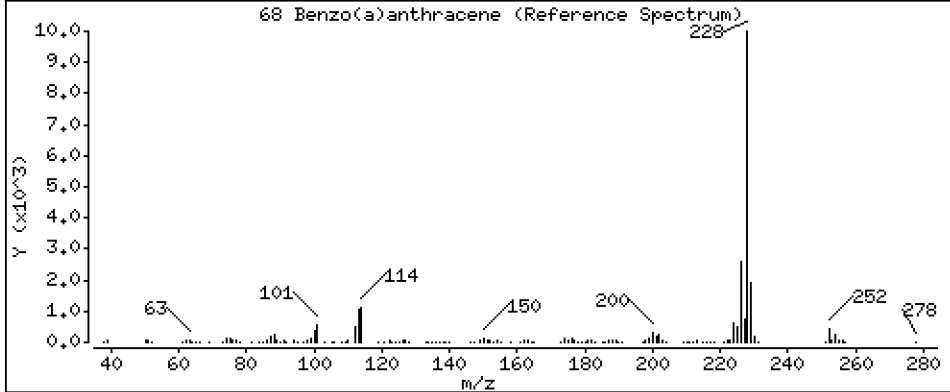
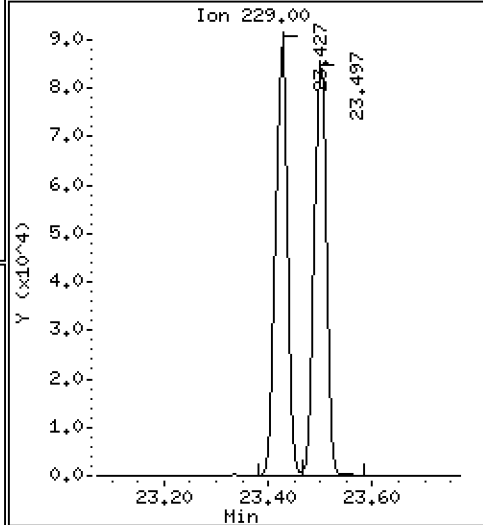
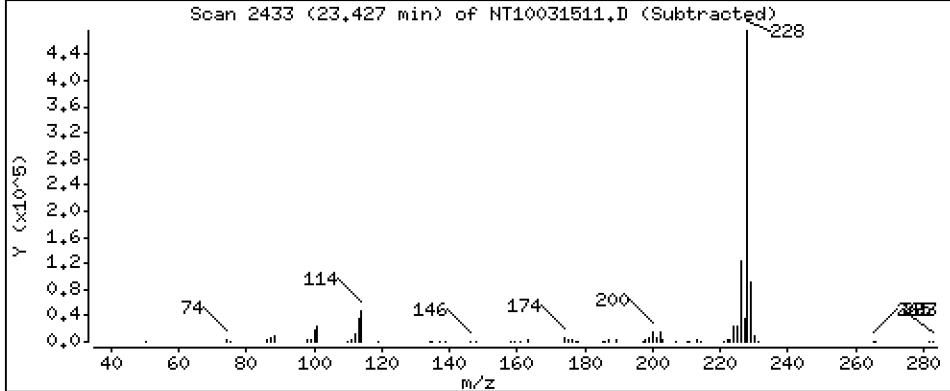
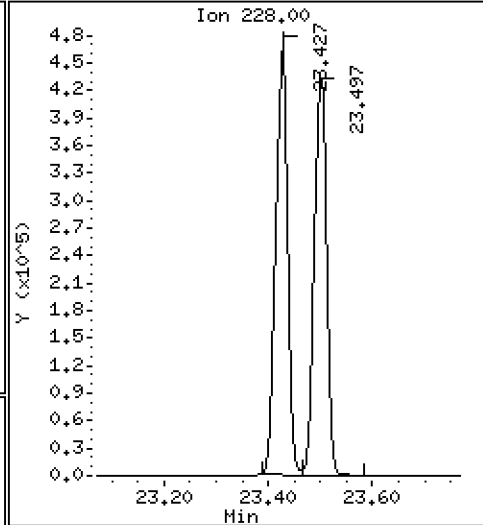
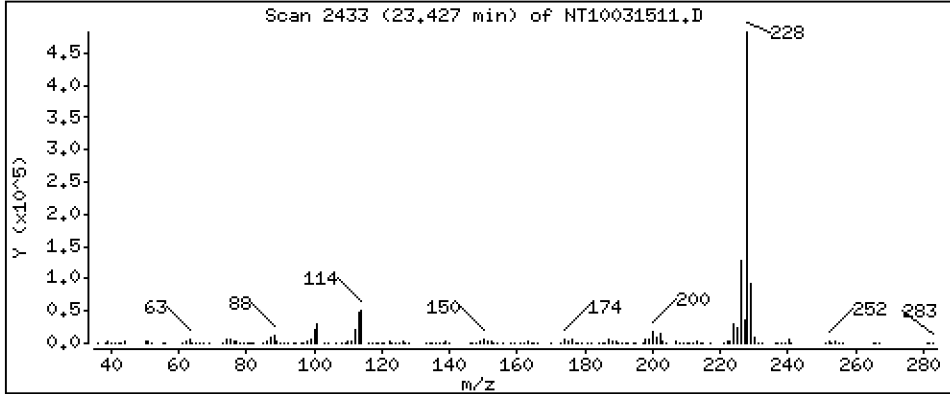
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,647 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

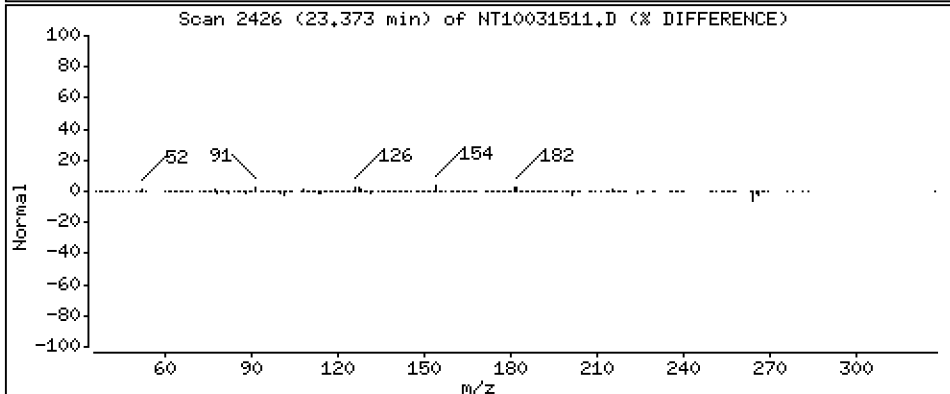
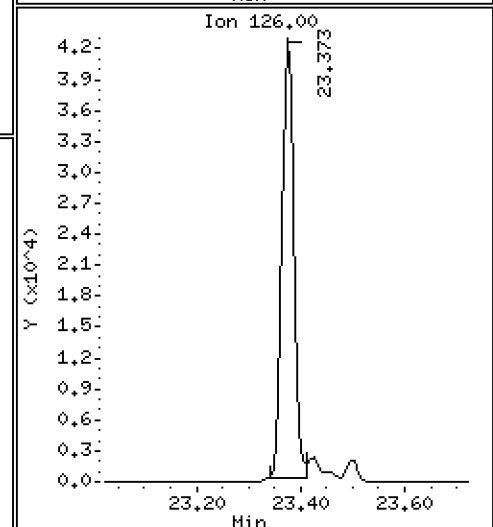
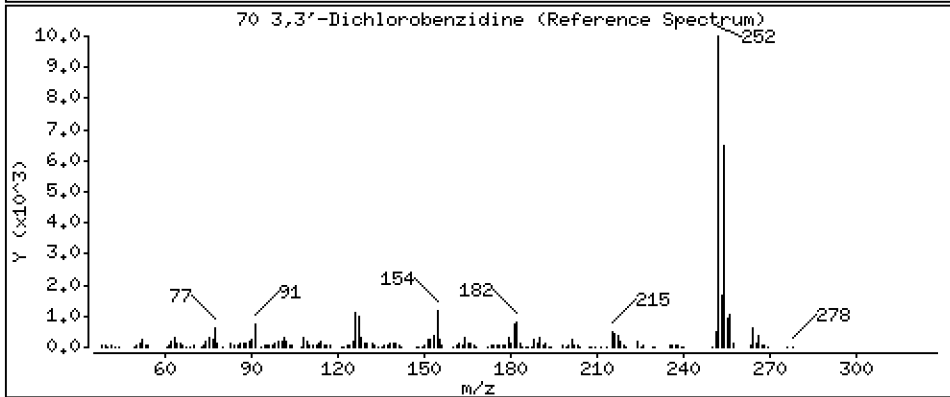
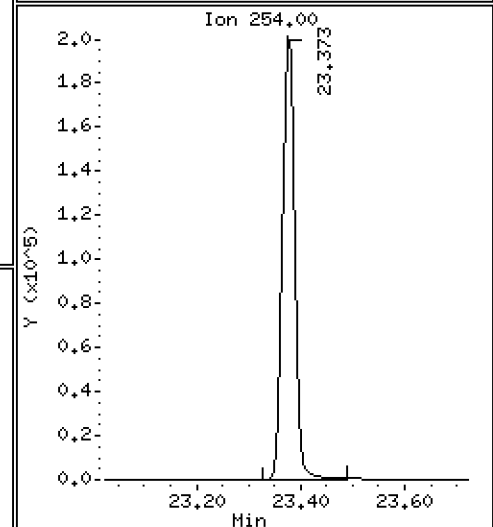
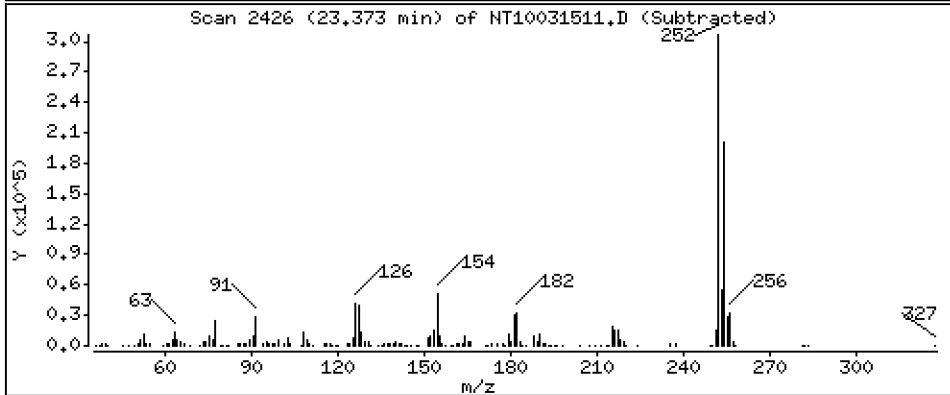
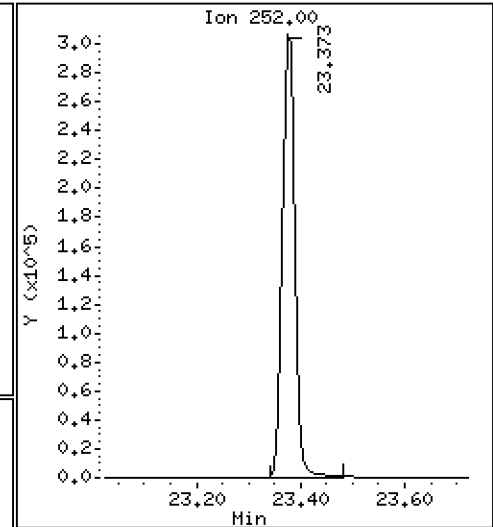
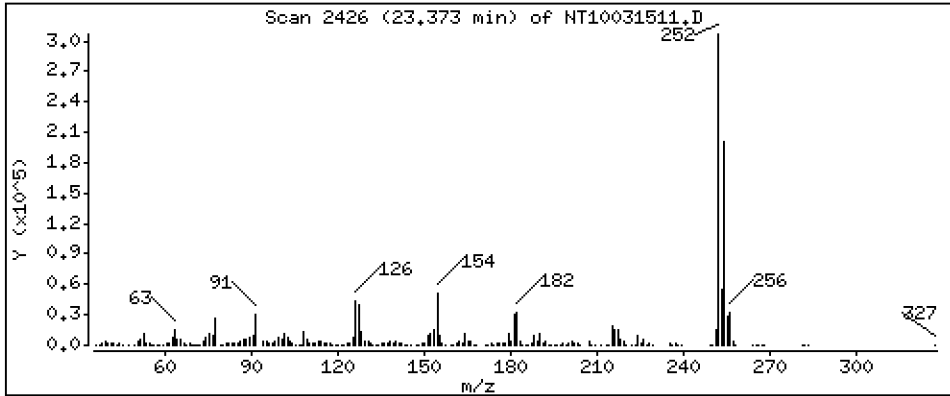
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 9,817 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

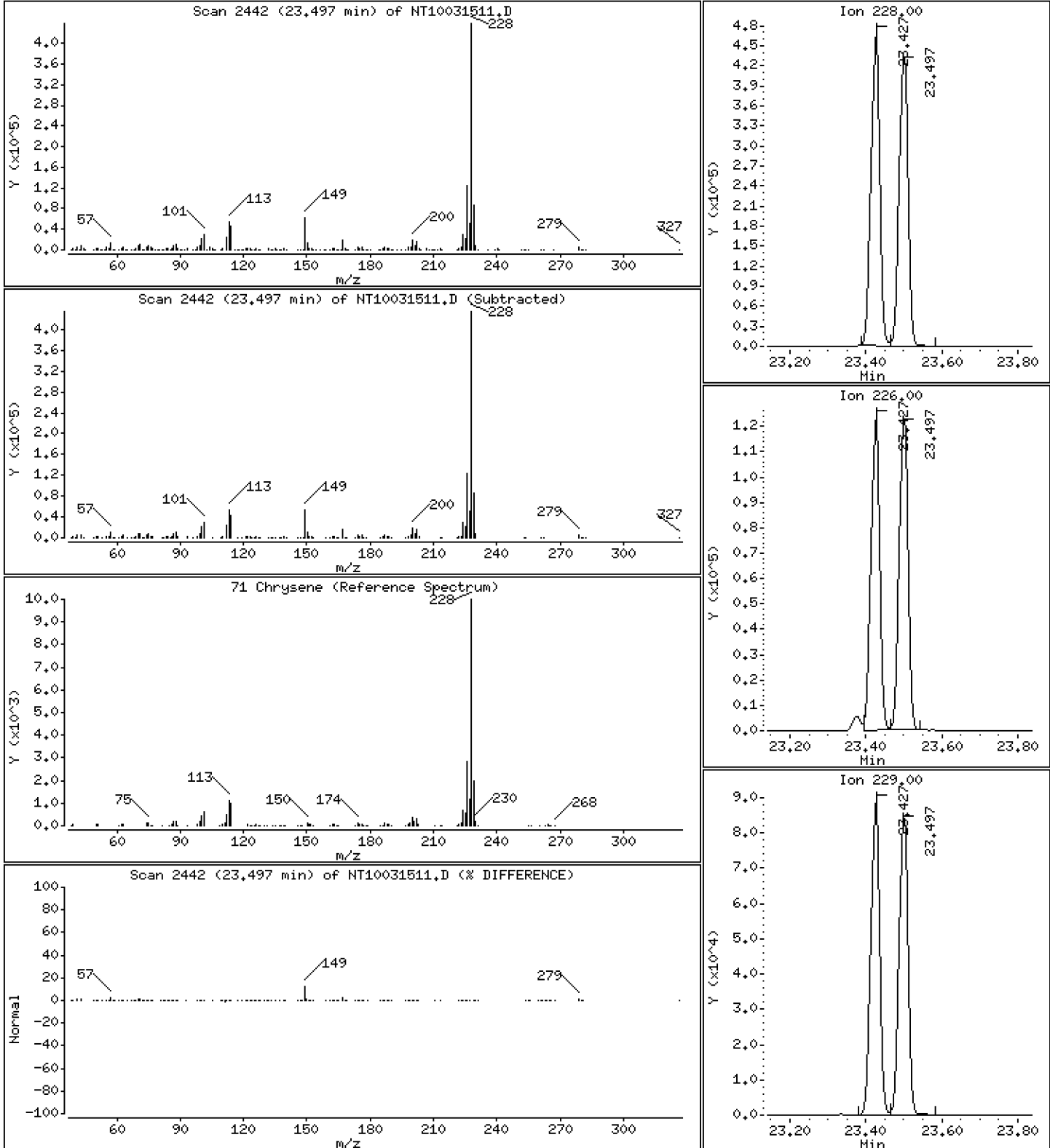
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,510 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

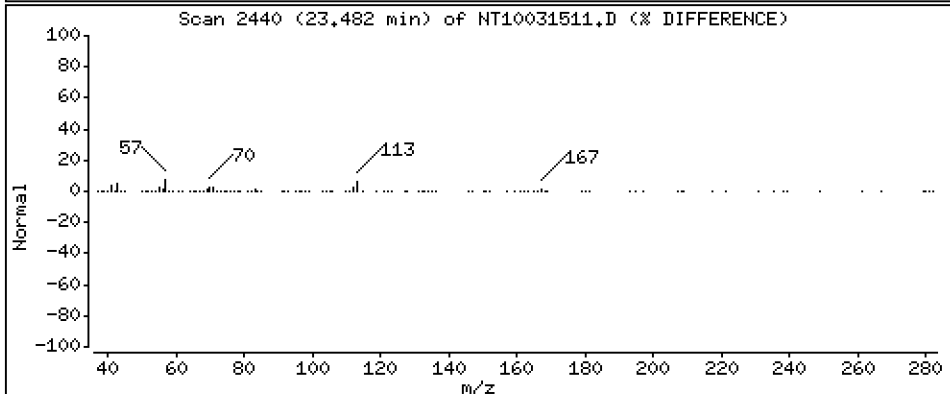
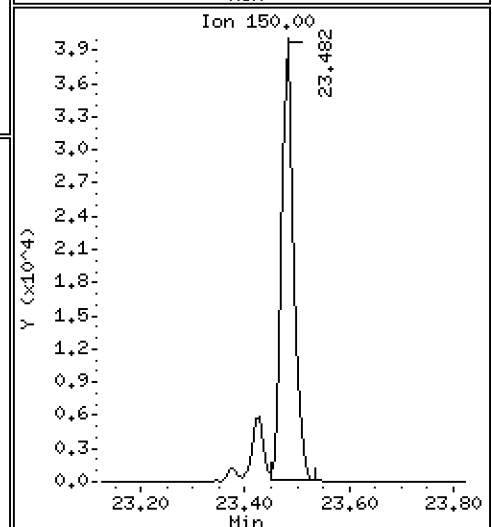
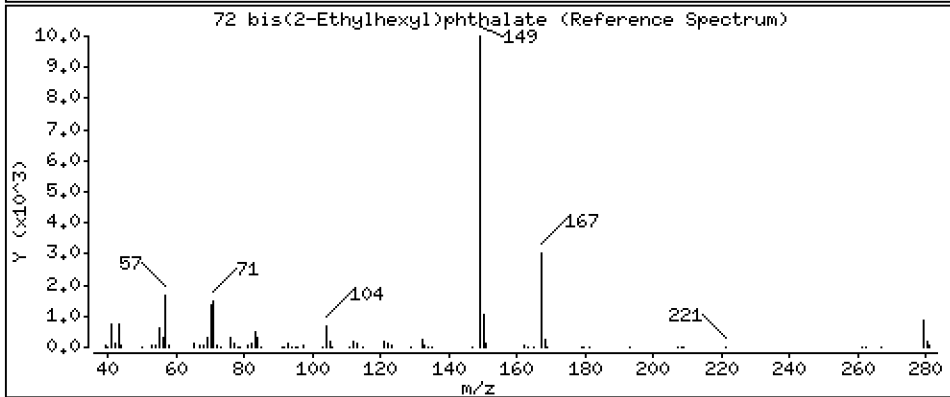
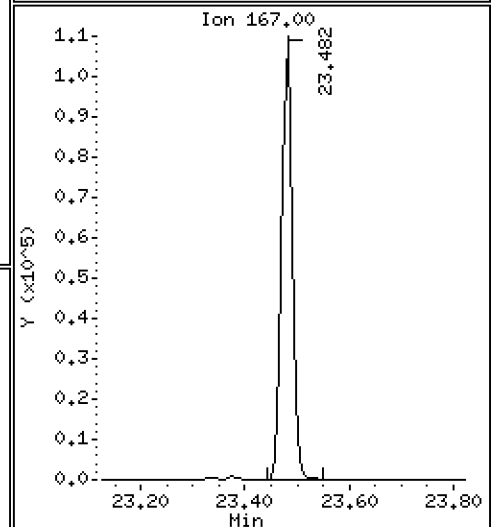
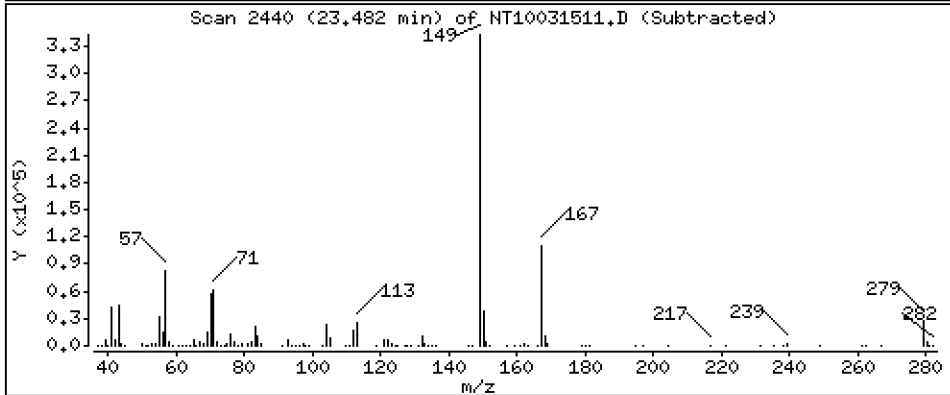
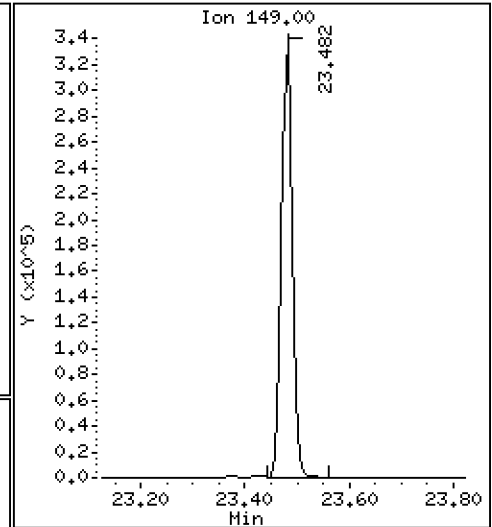
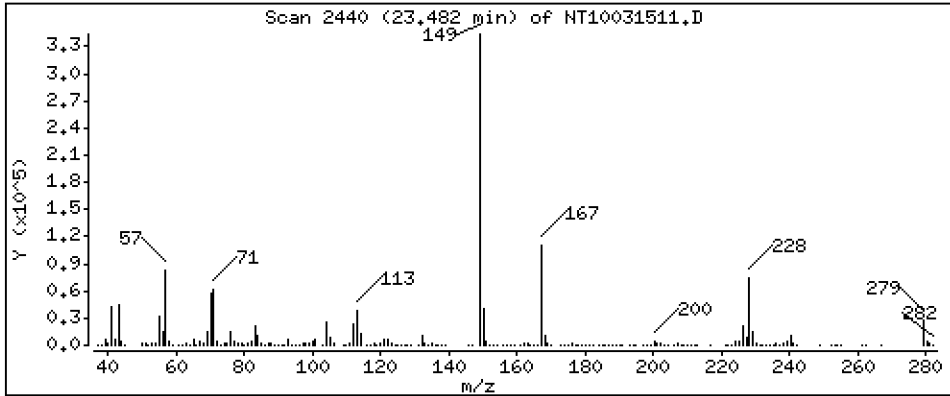
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,680 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

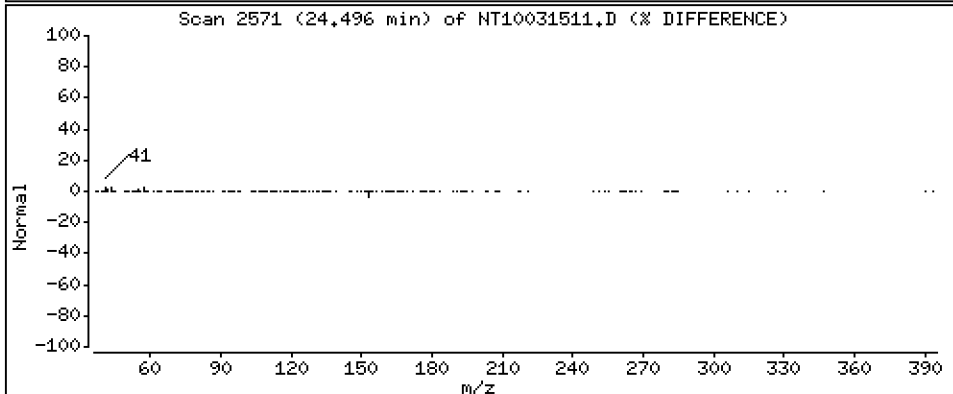
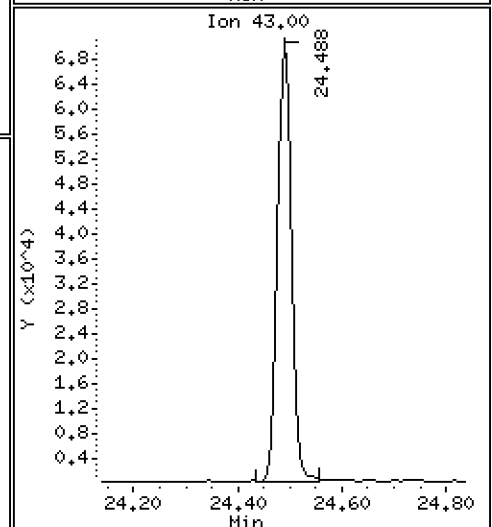
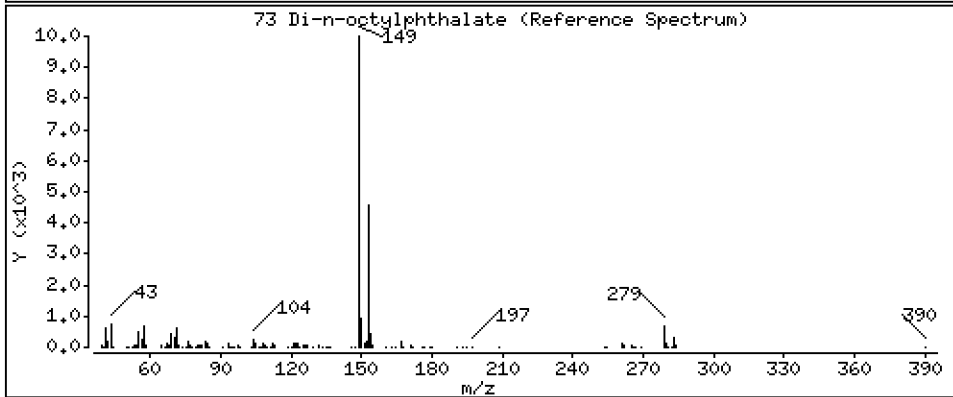
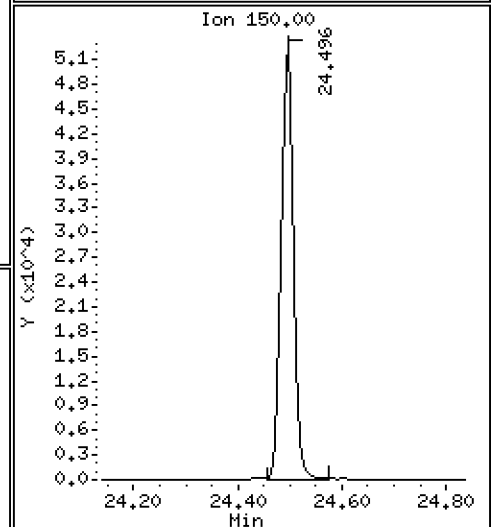
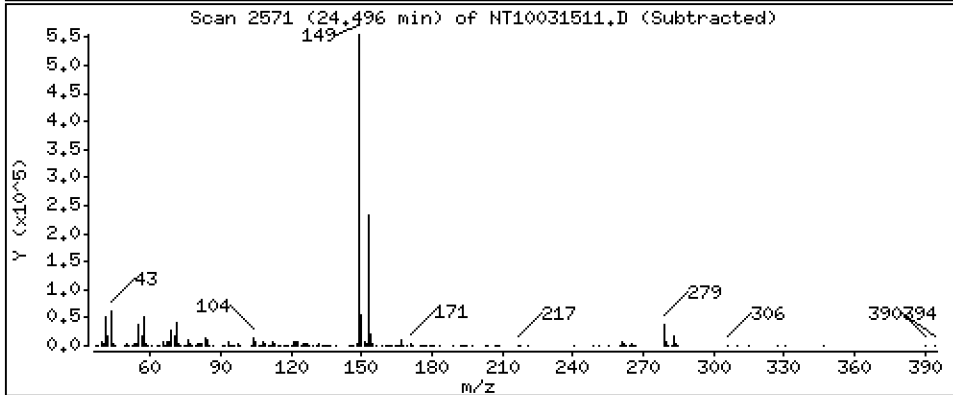
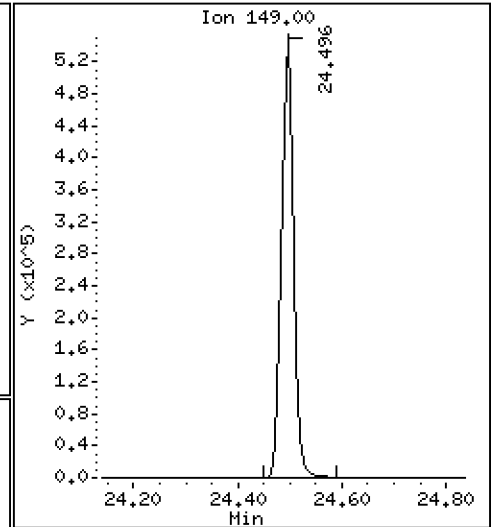
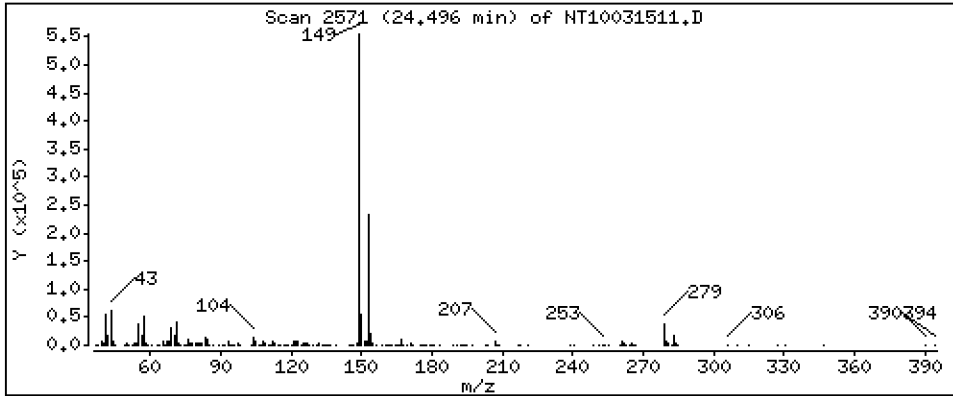
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,947 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

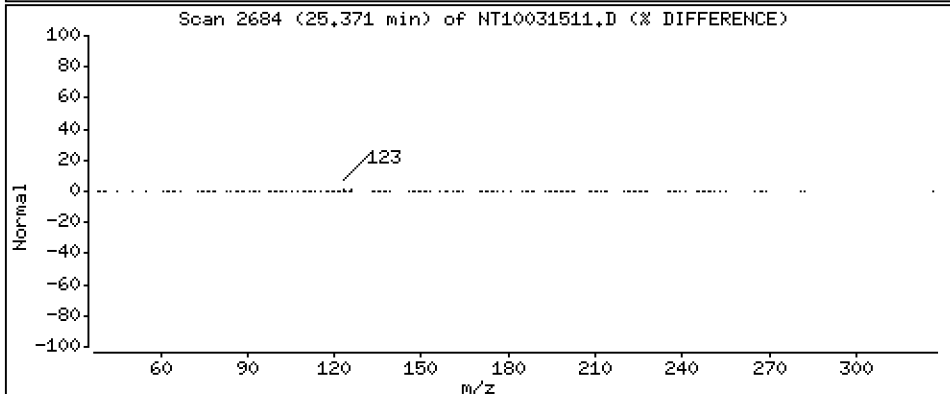
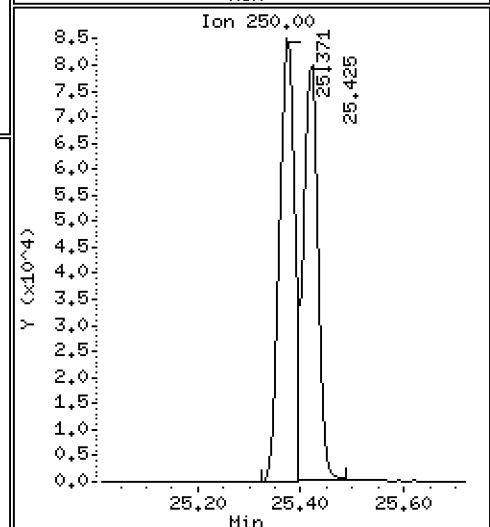
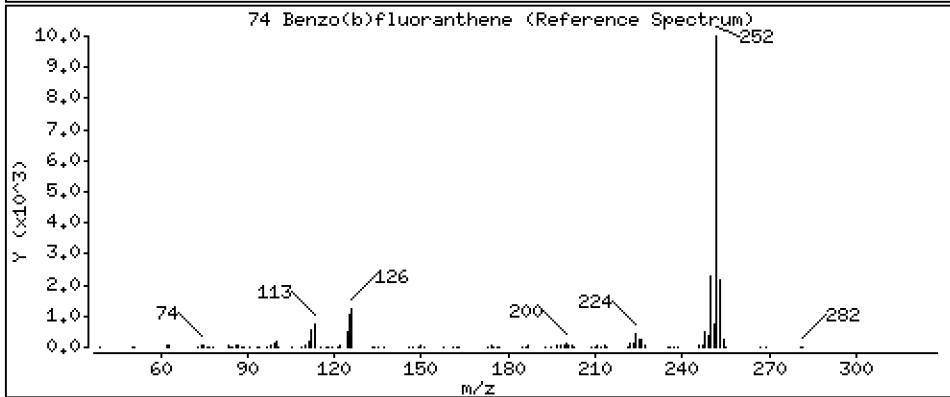
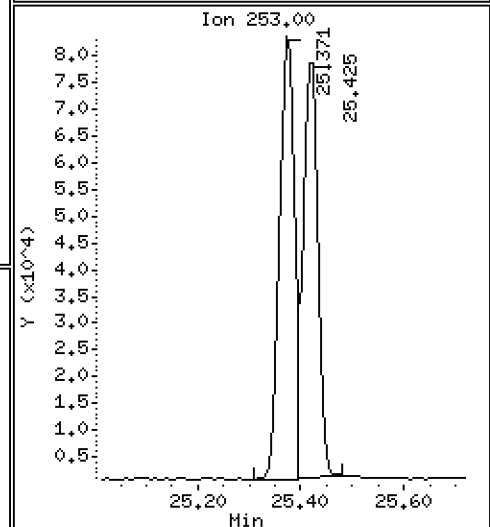
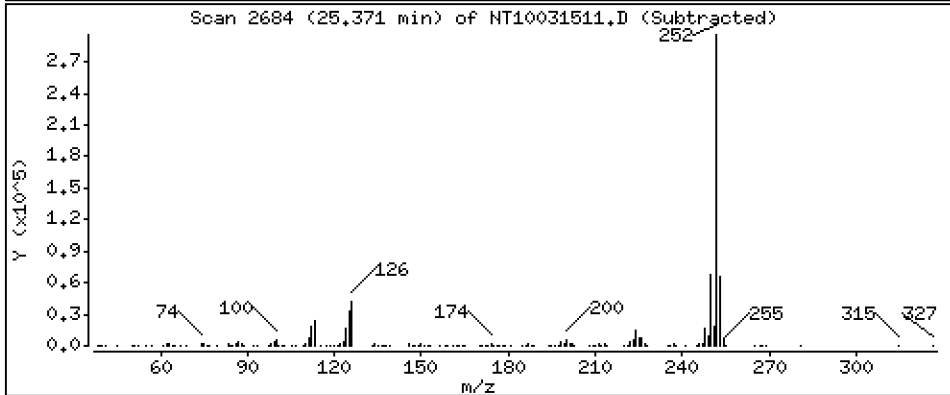
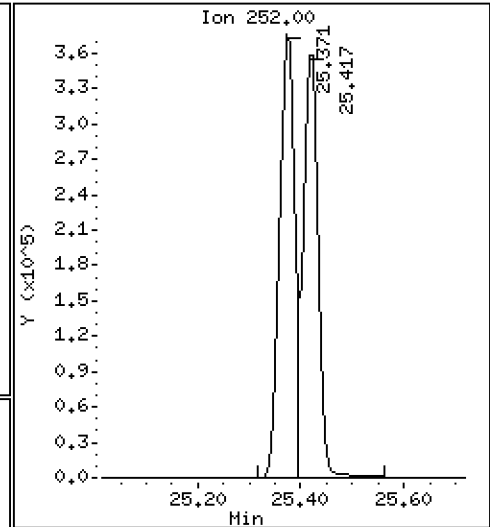
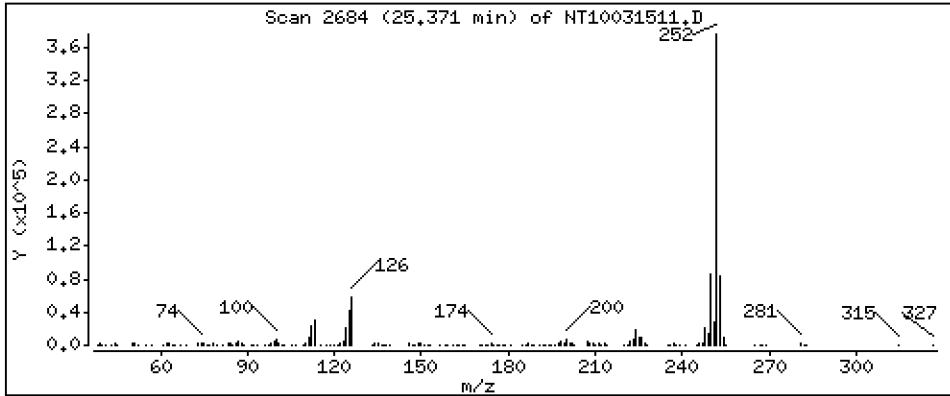
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,602 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

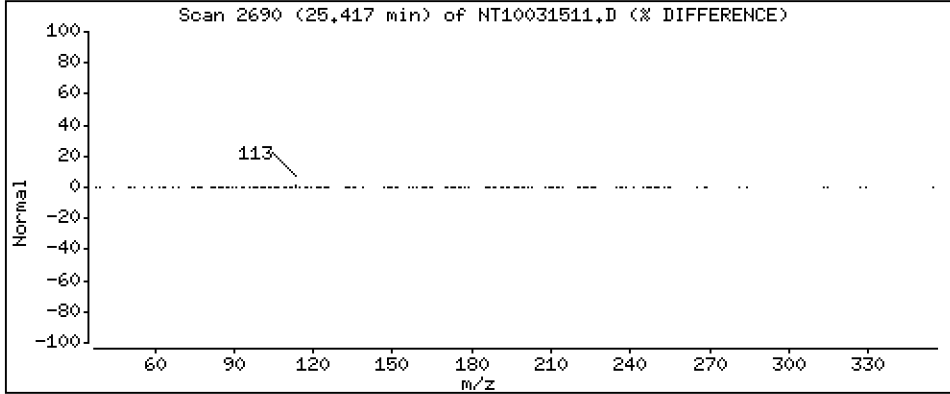
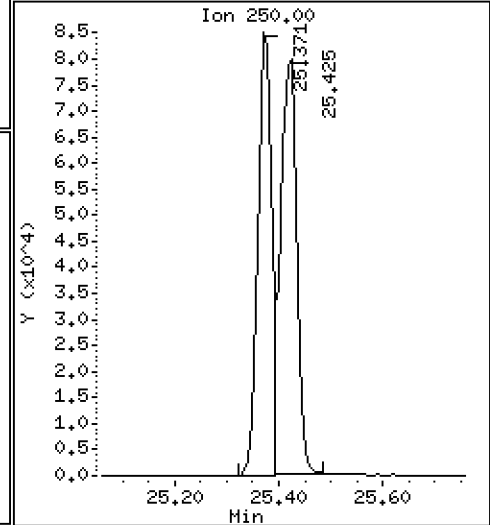
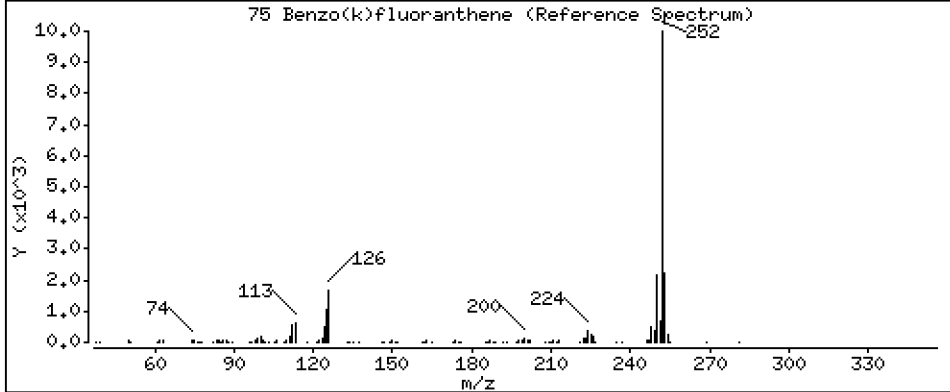
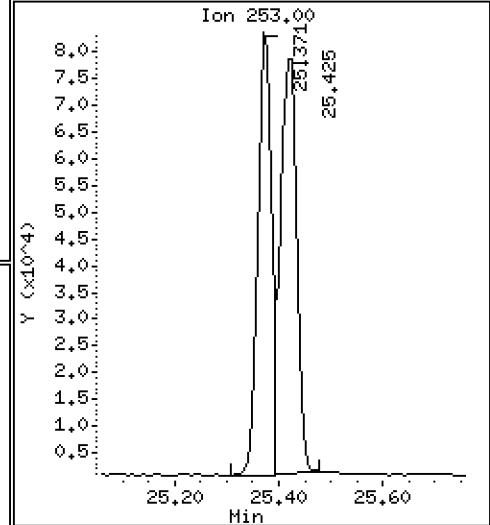
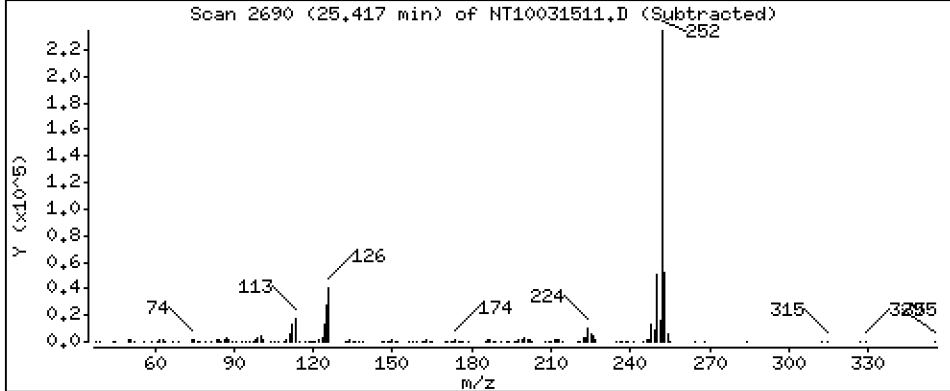
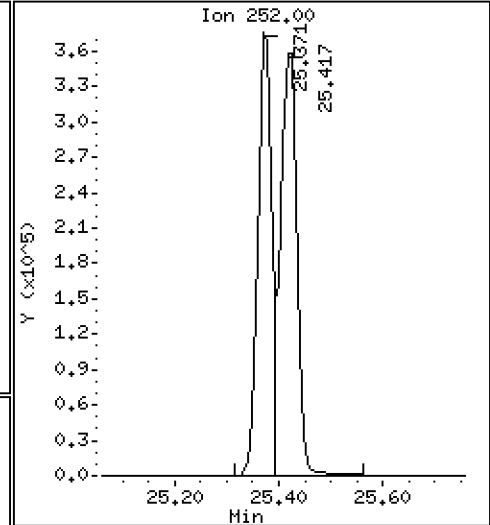
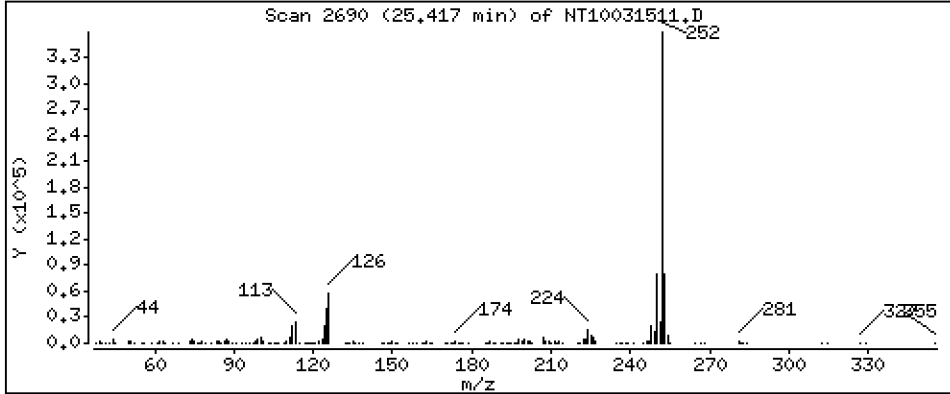
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,898 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

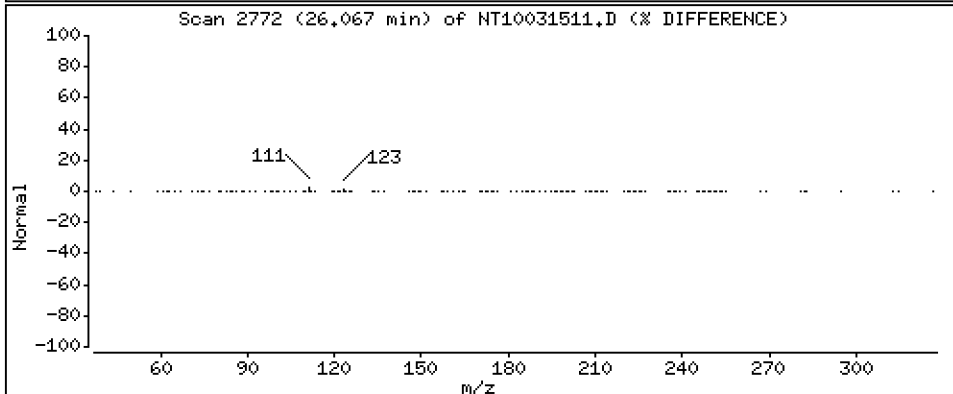
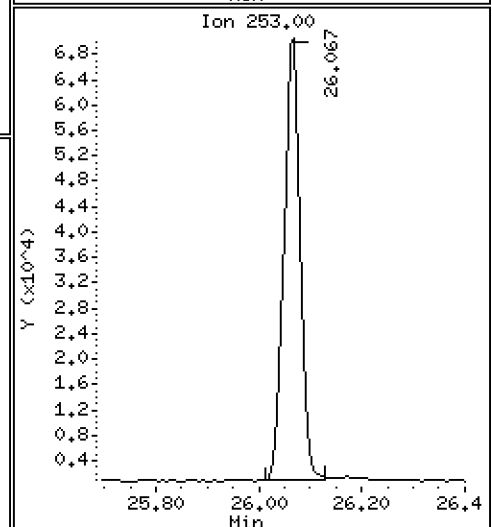
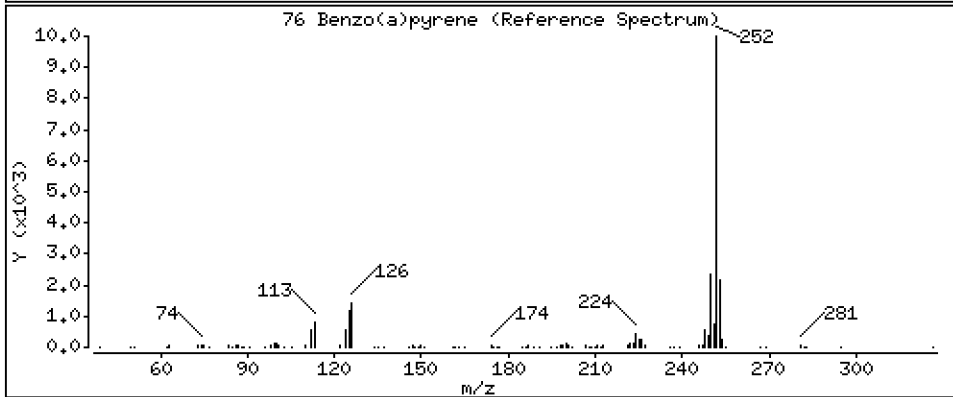
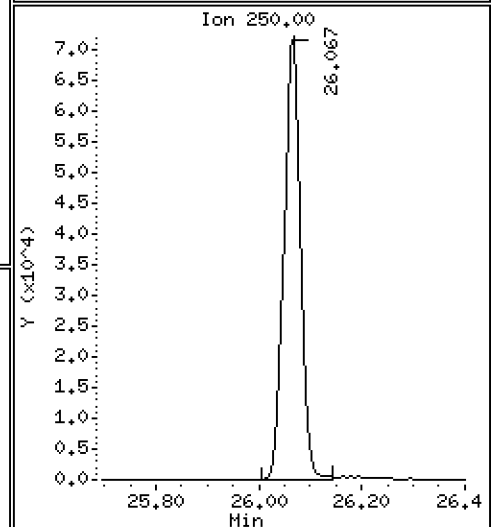
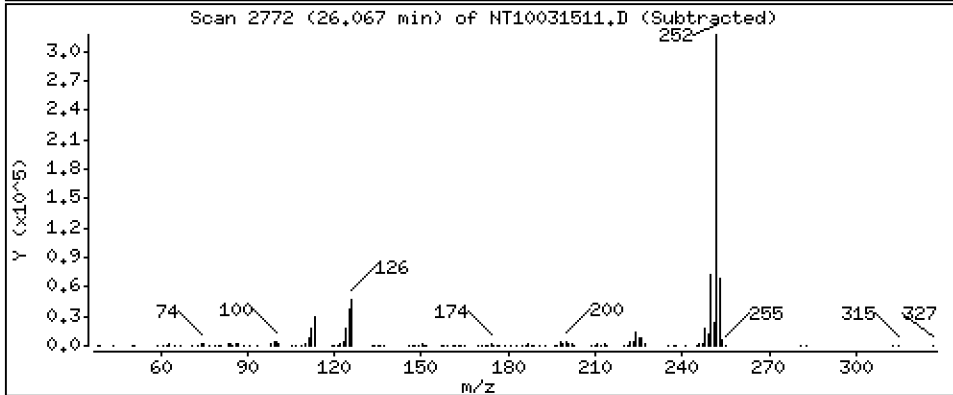
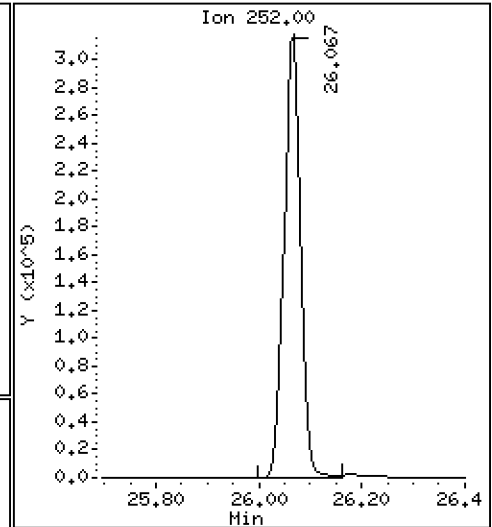
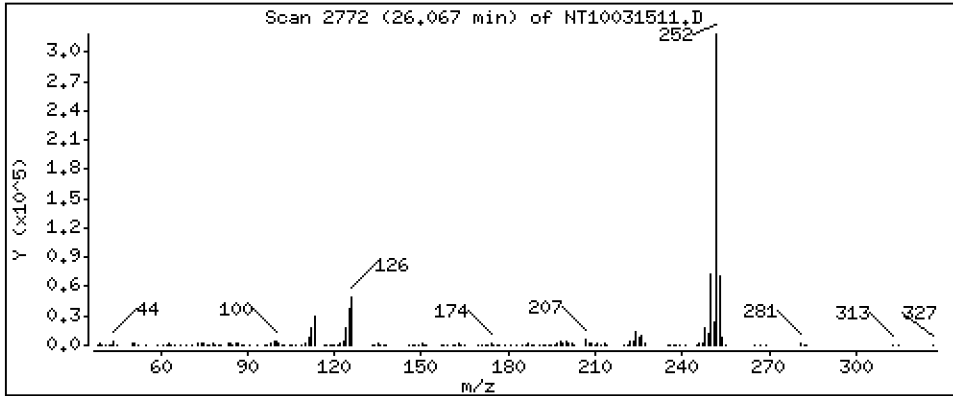
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,873 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

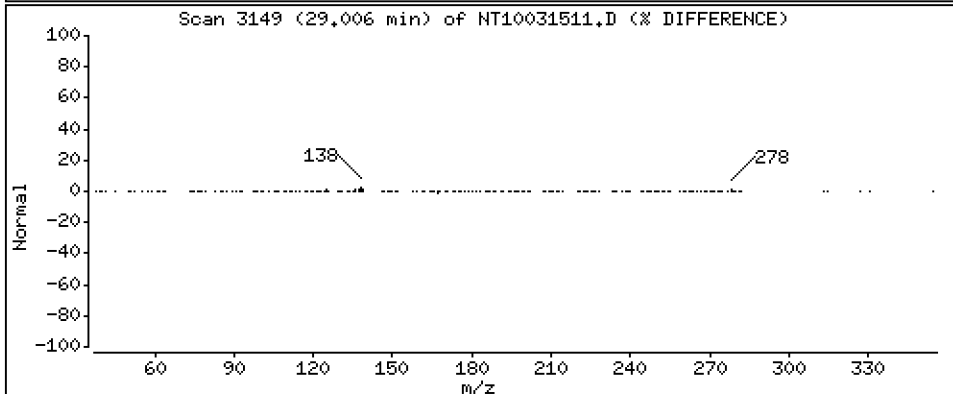
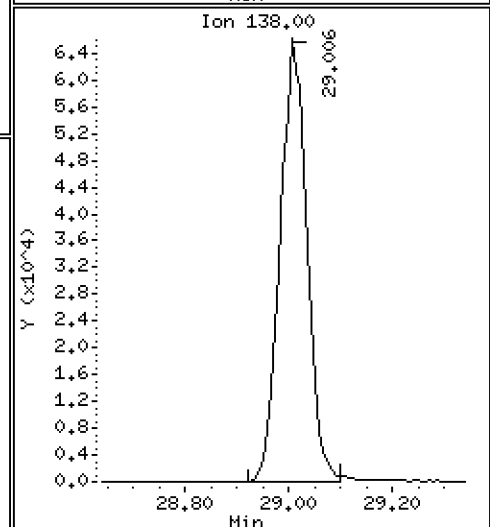
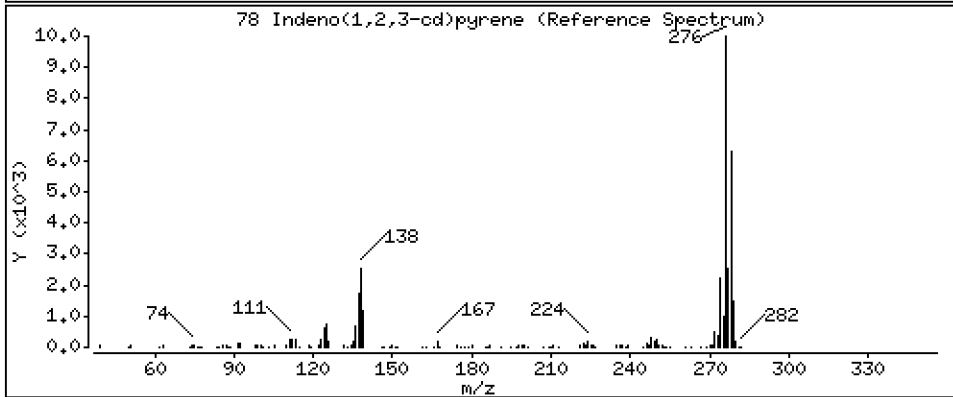
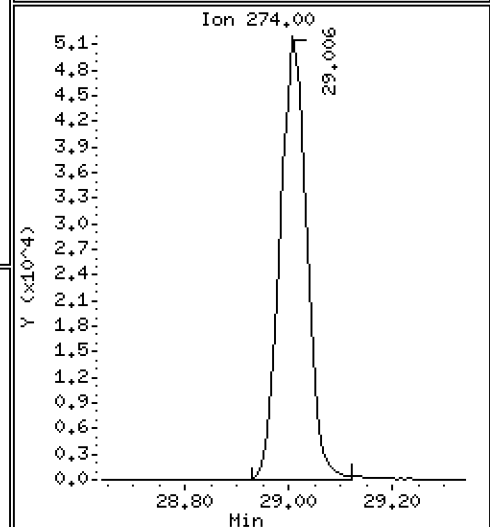
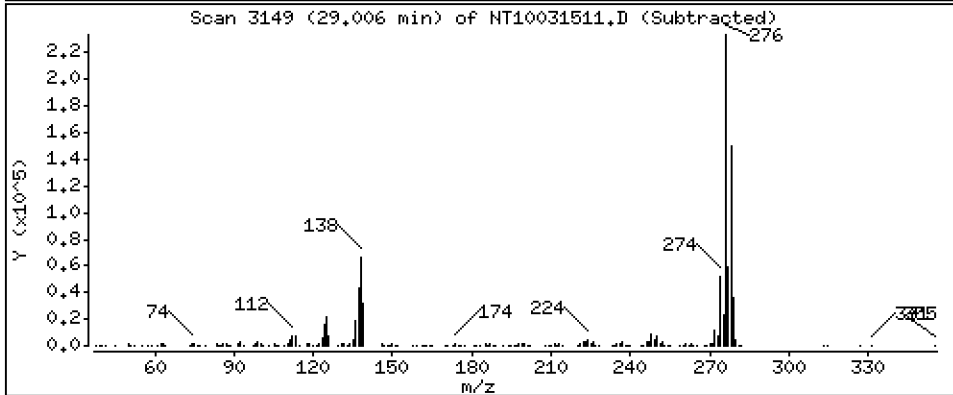
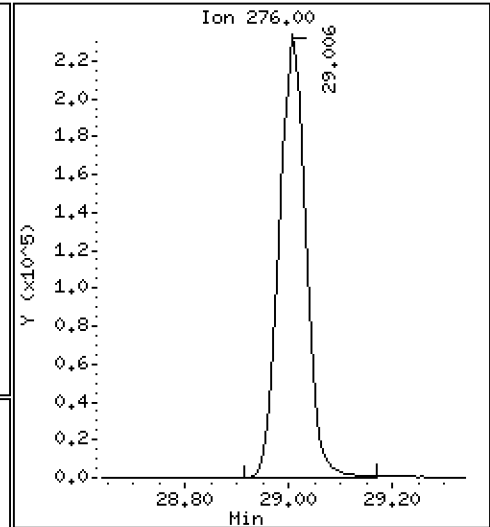
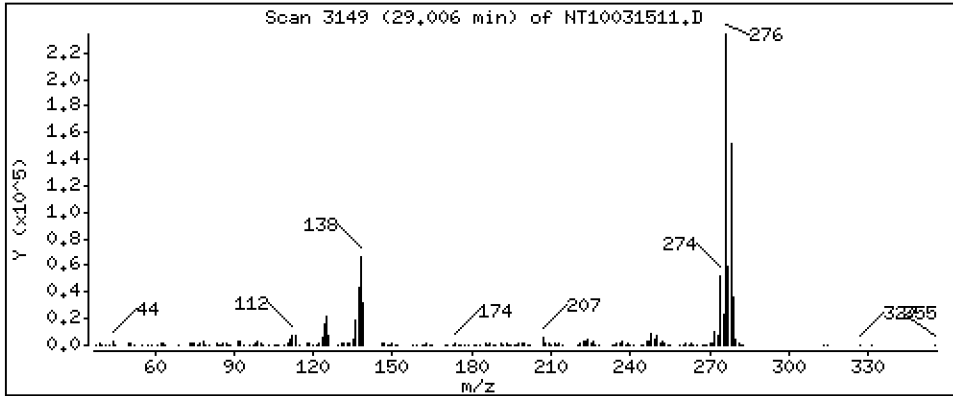
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 4,577 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

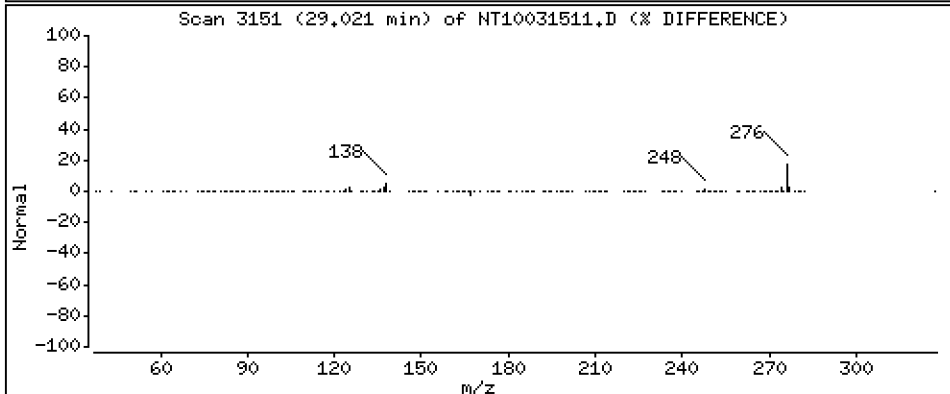
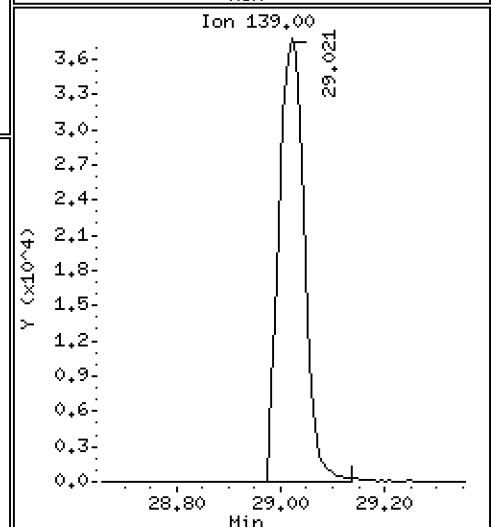
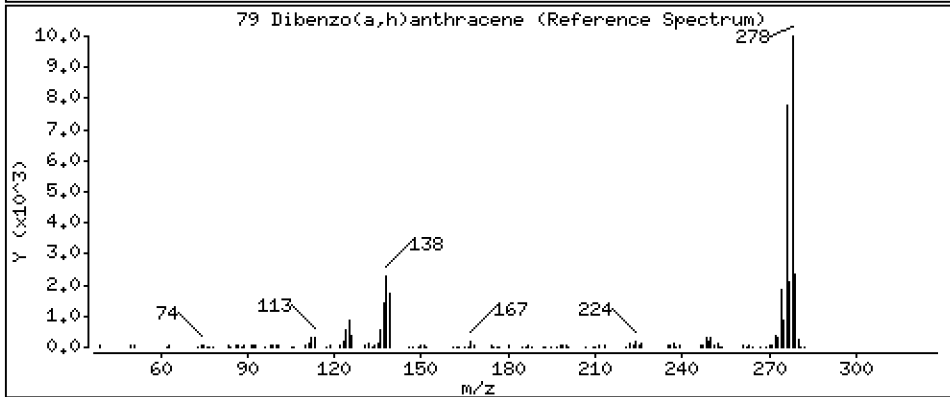
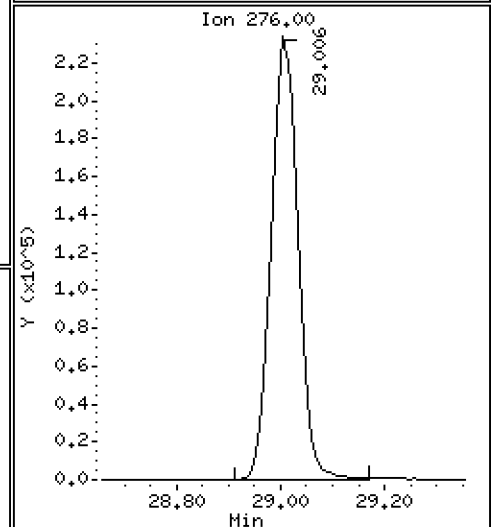
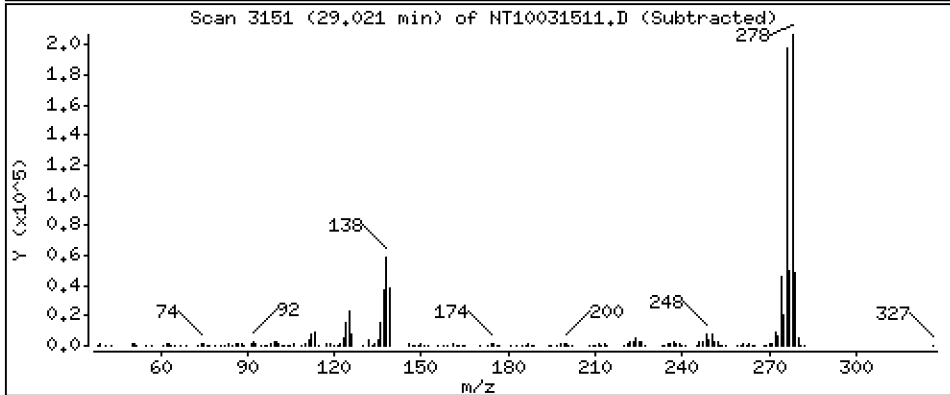
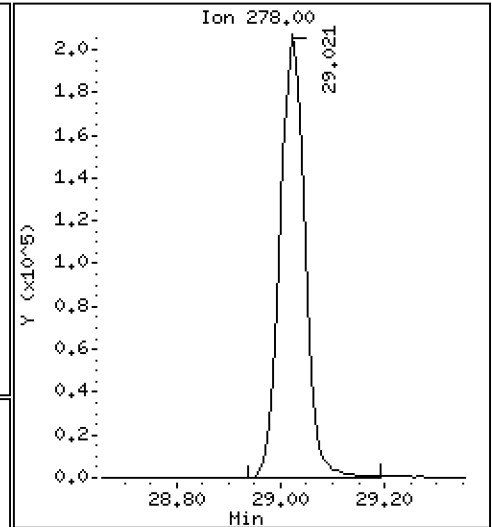
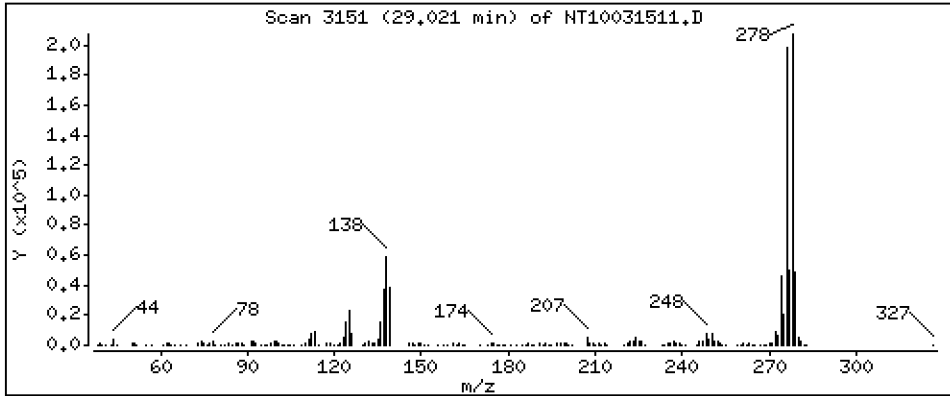
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,547 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

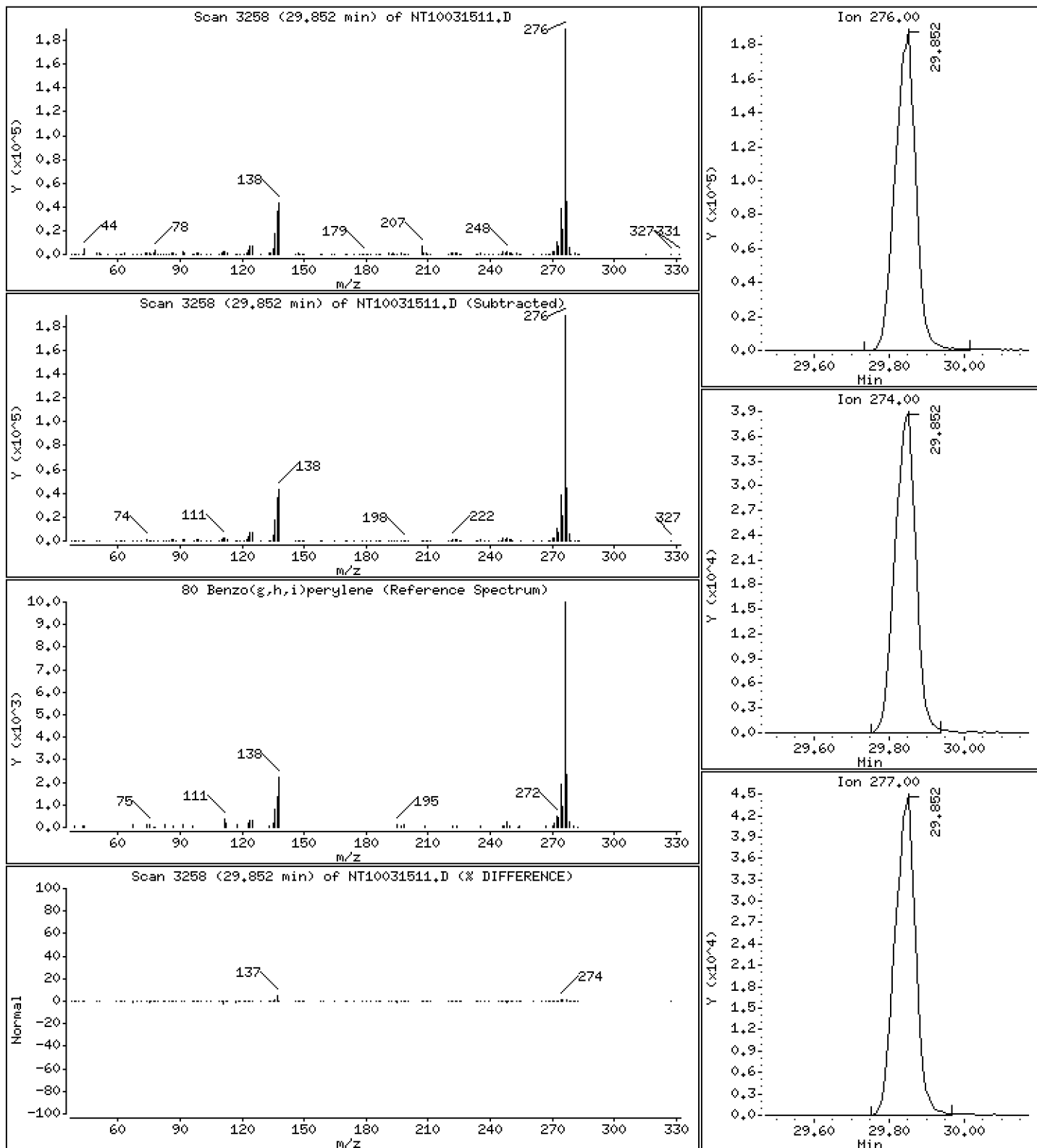
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,590 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

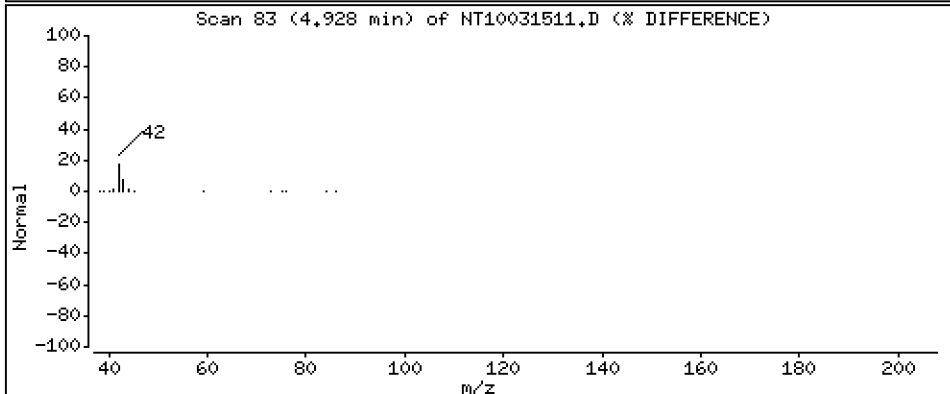
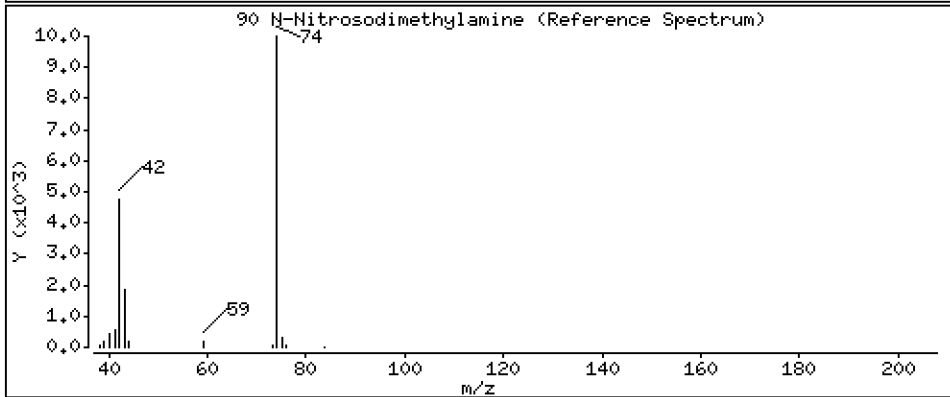
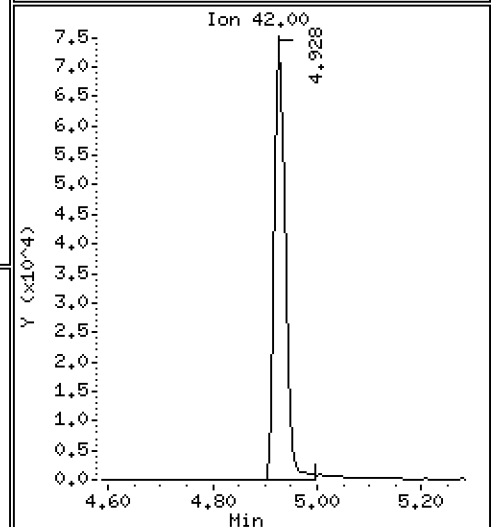
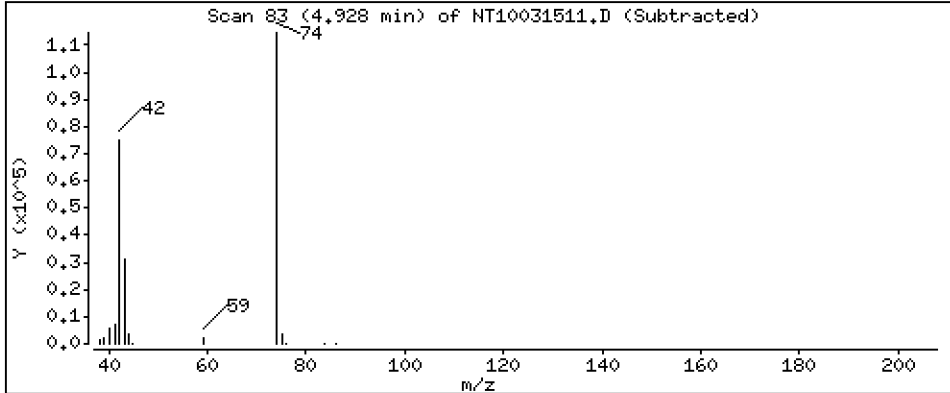
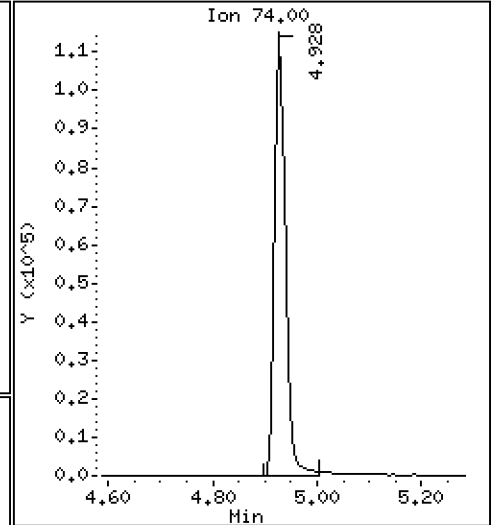
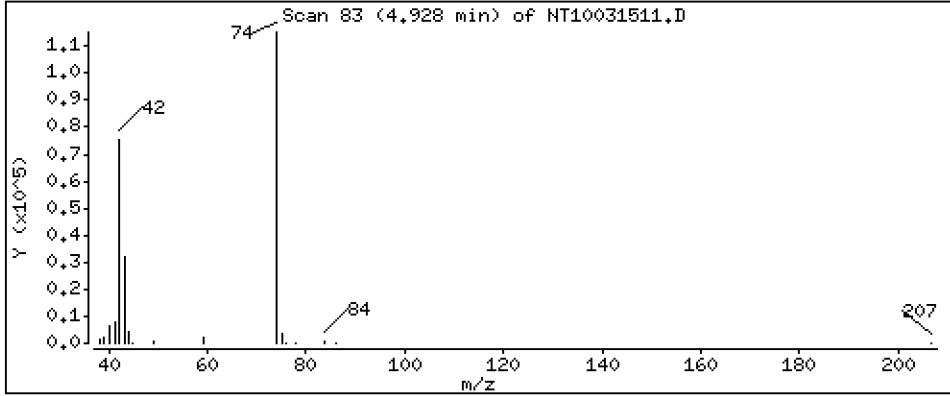
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 5.194 ug/mL





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

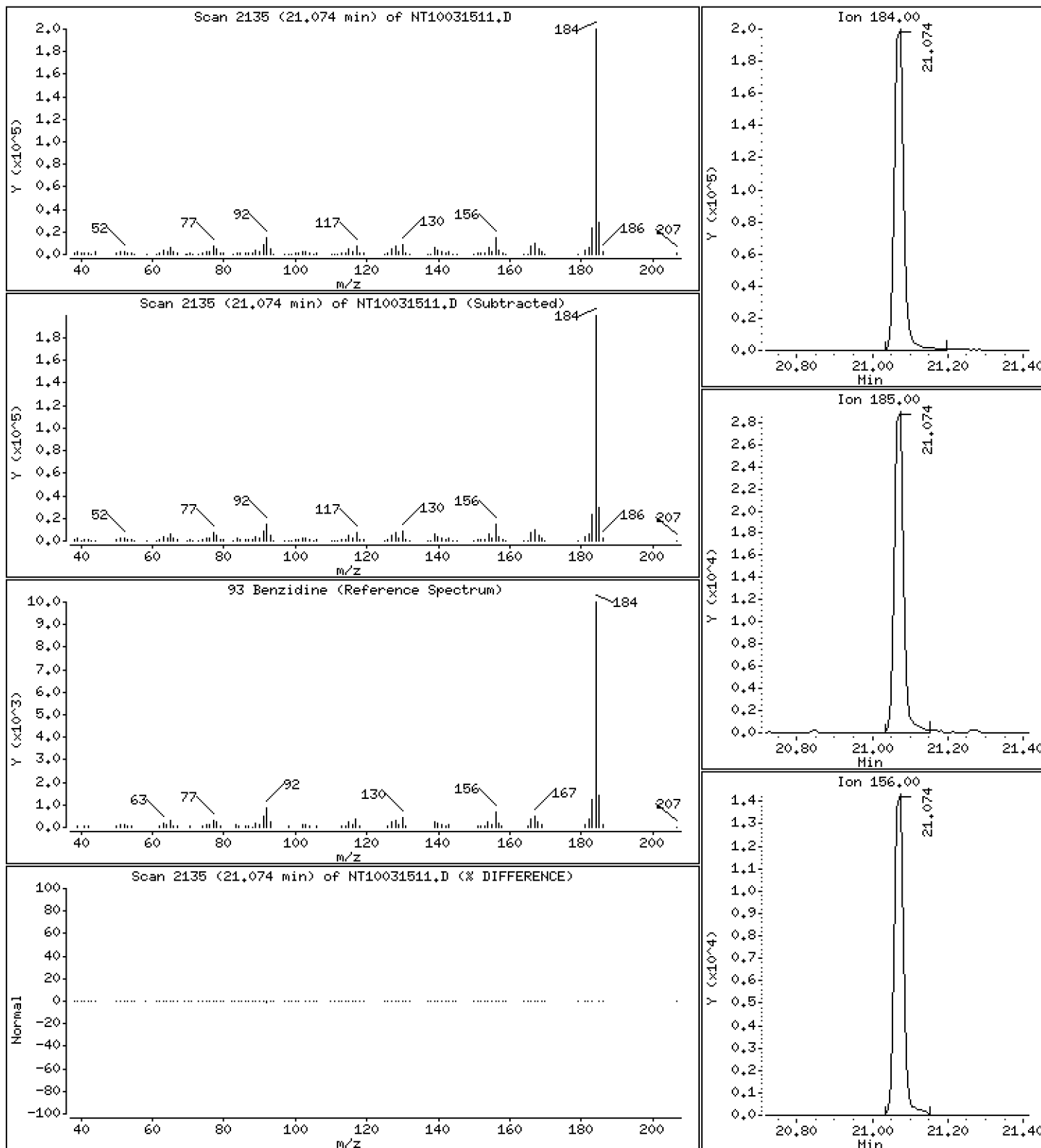
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 4,380 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

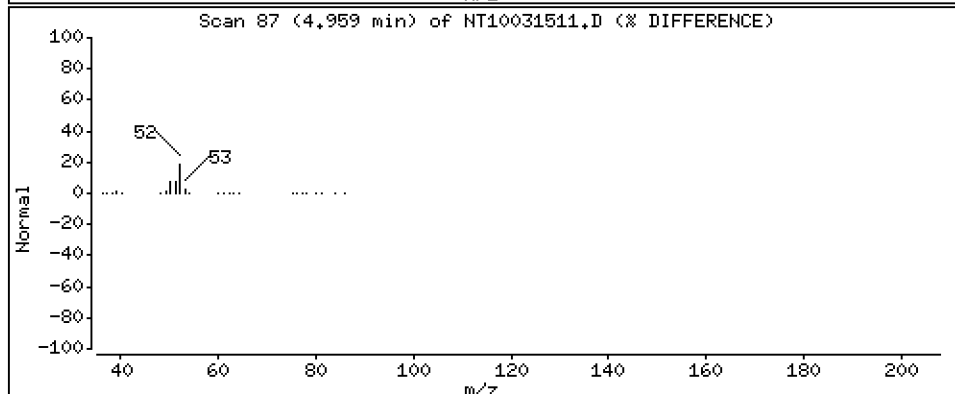
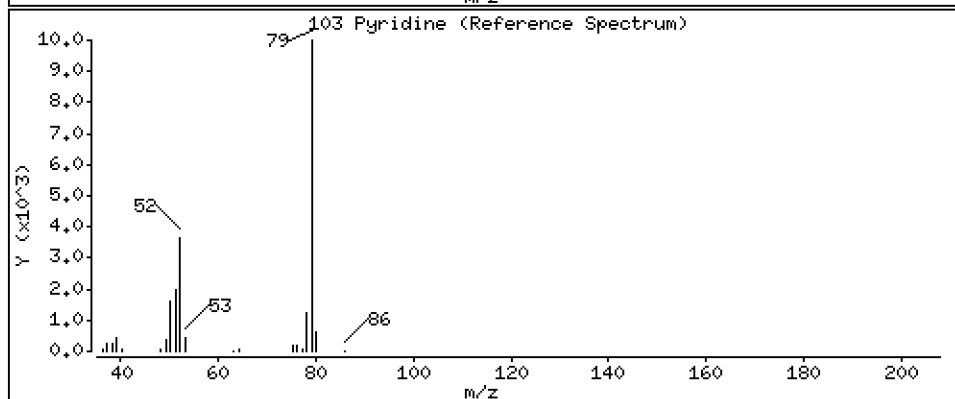
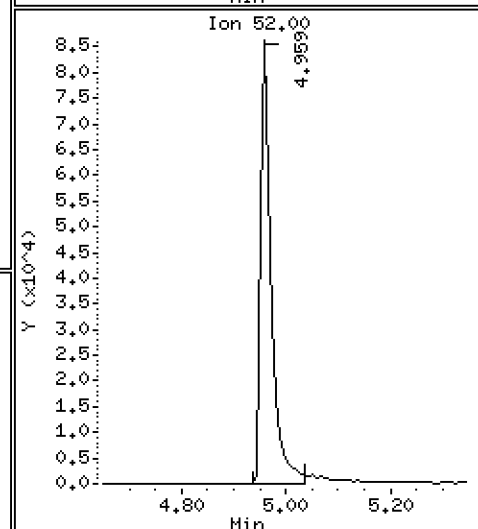
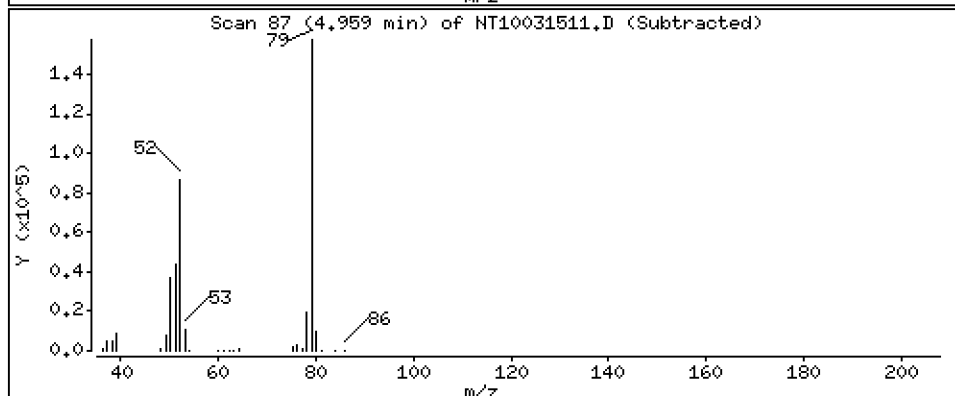
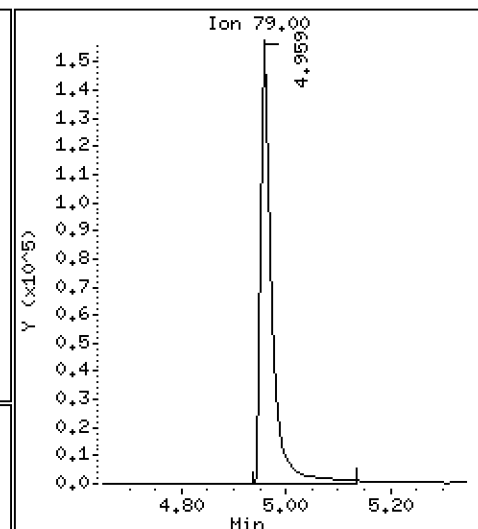
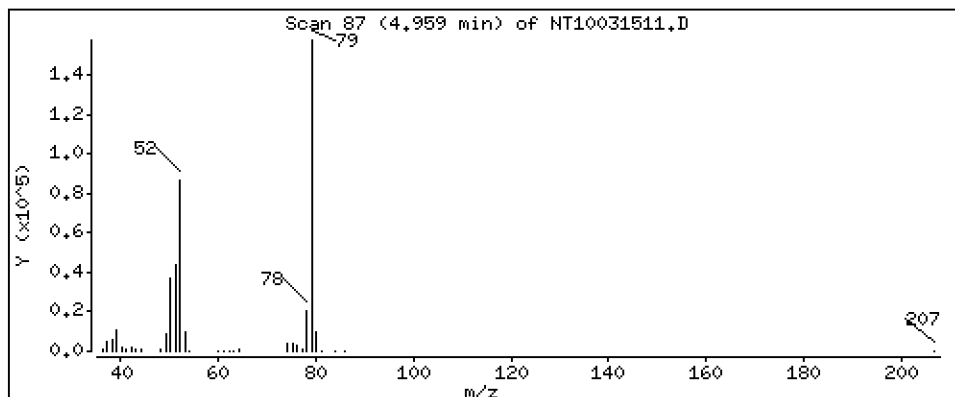
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

103 Pyridine

Concentration: 5.337 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

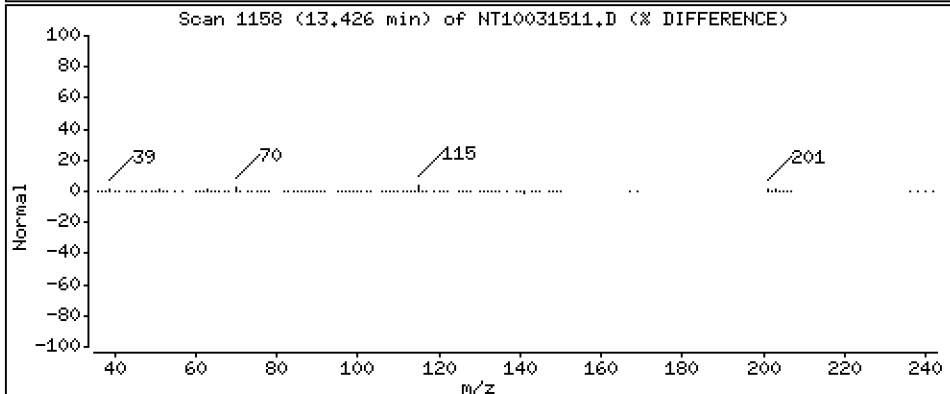
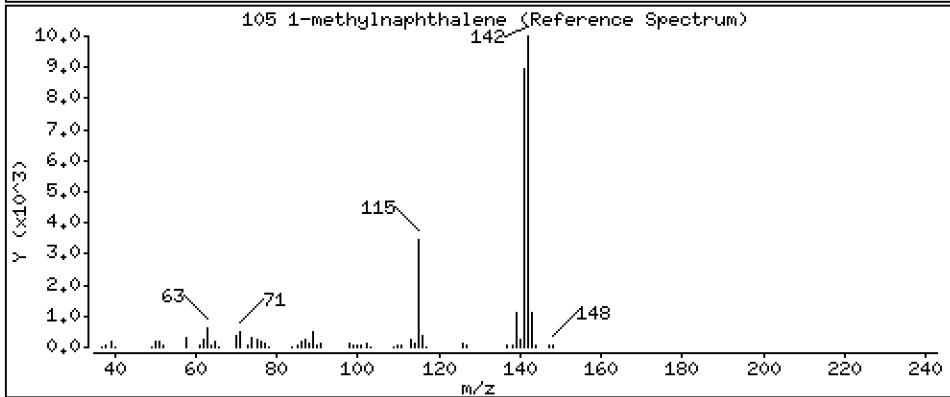
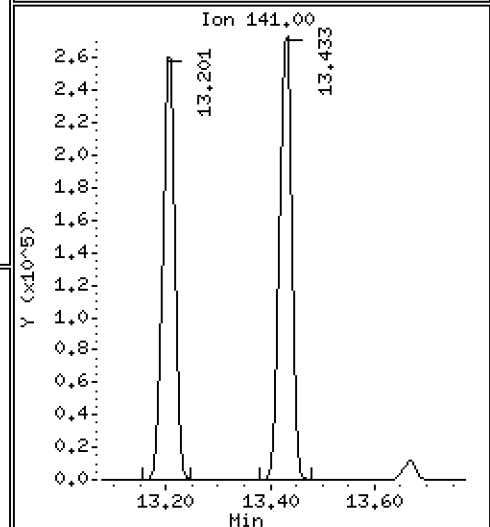
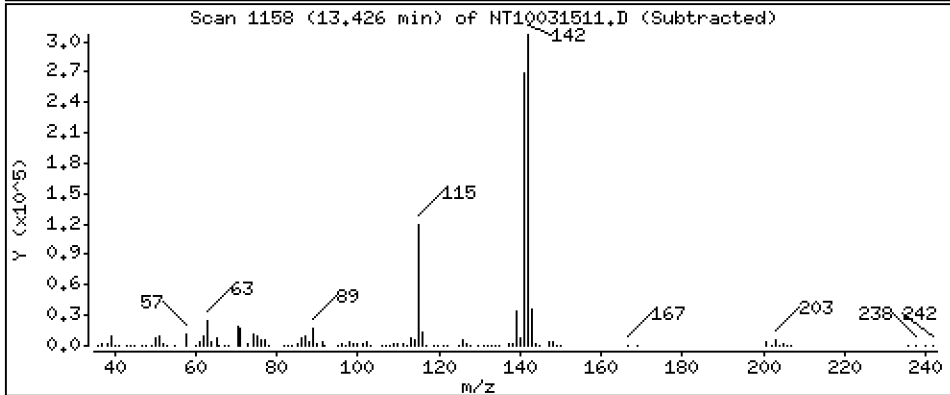
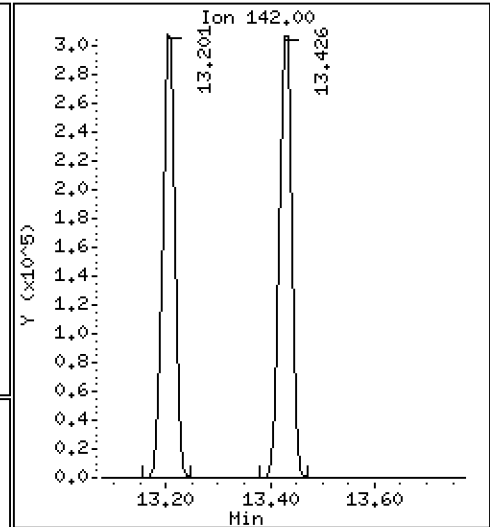
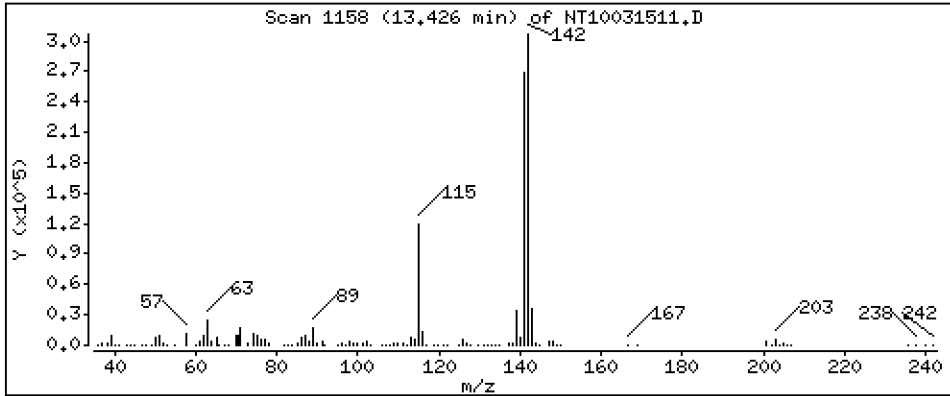
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,875 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

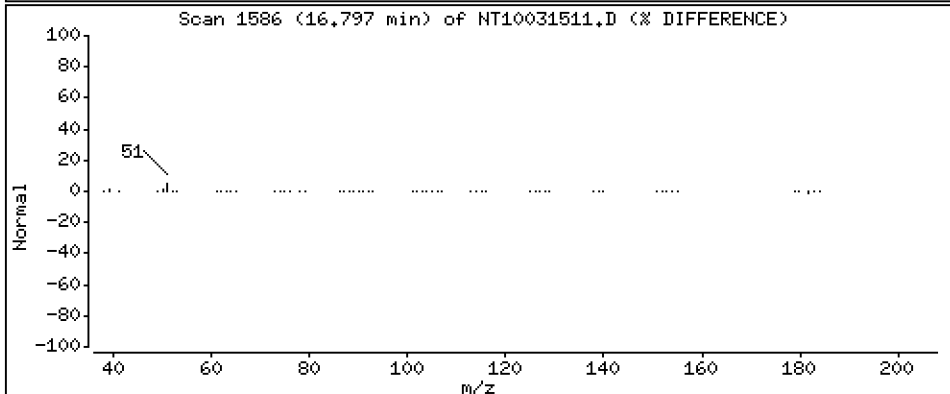
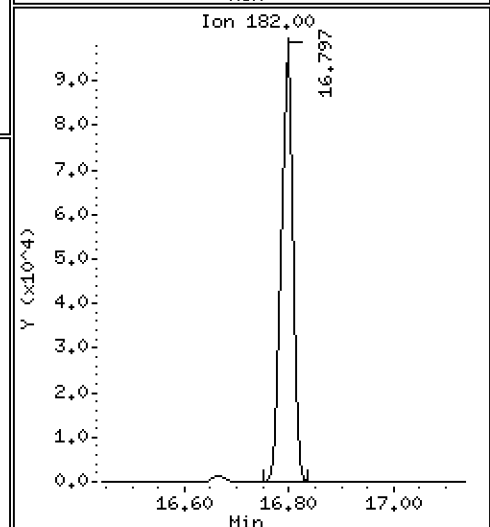
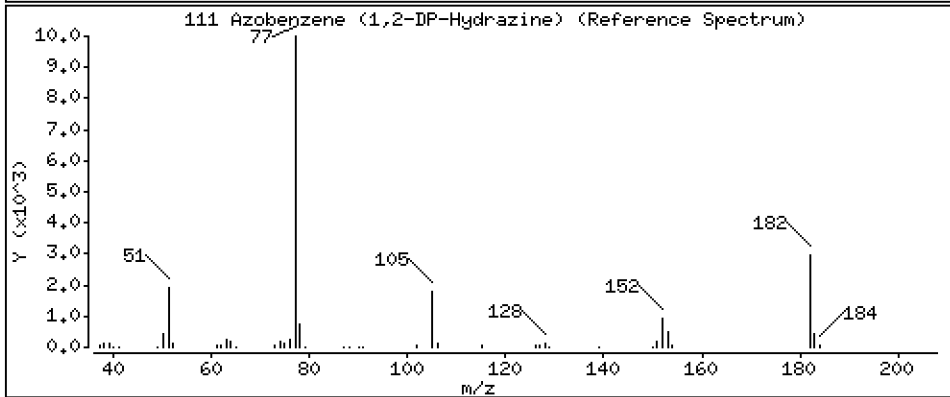
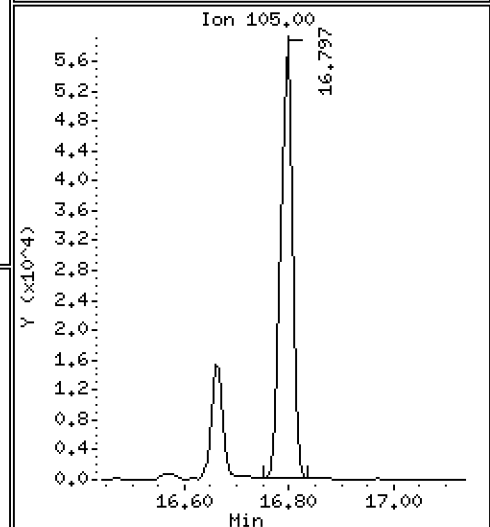
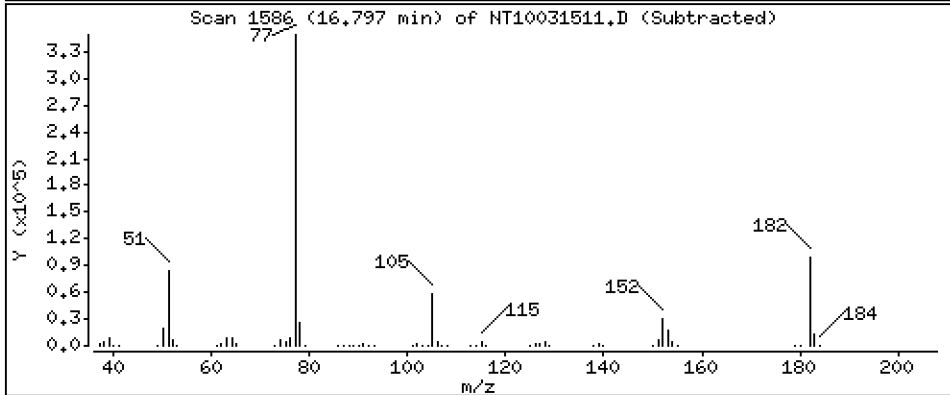
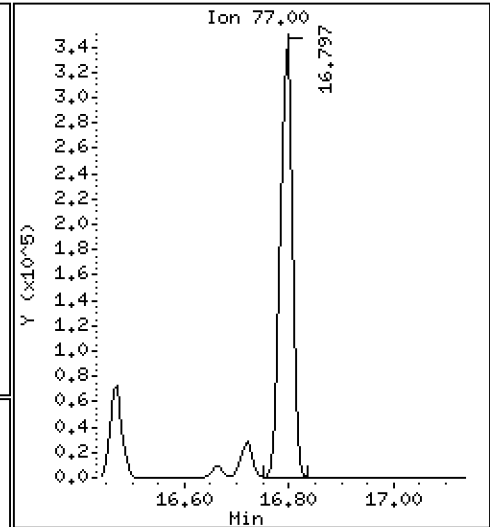
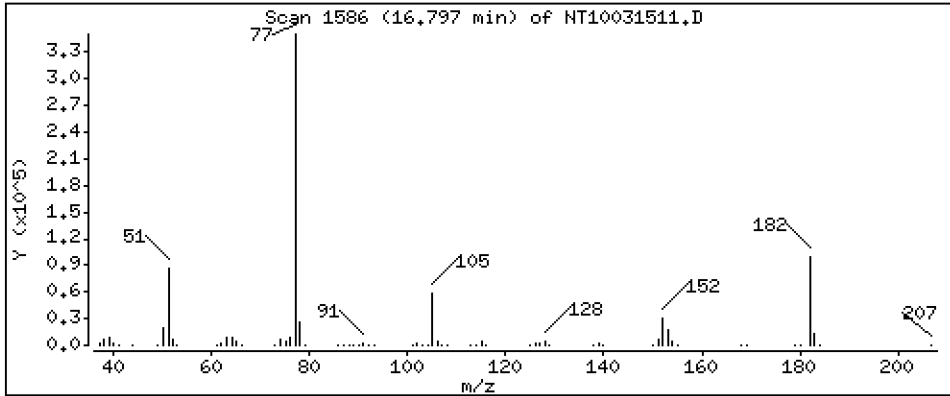
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4.937 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

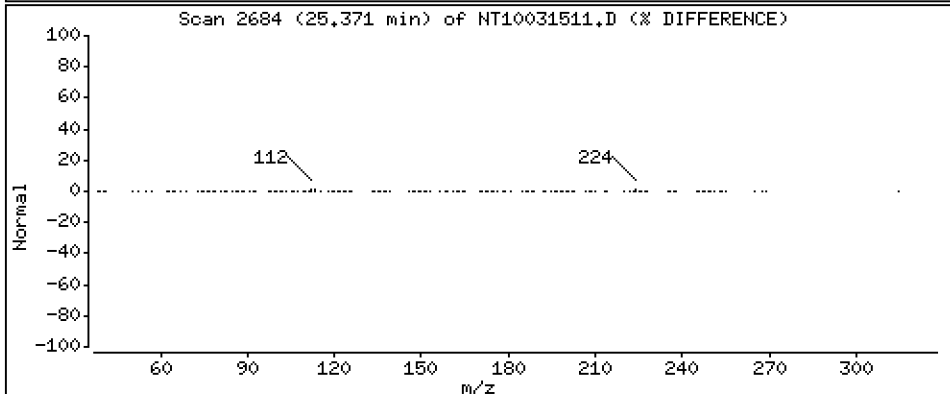
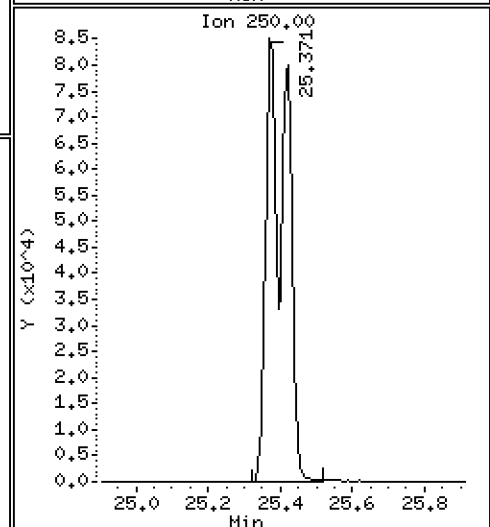
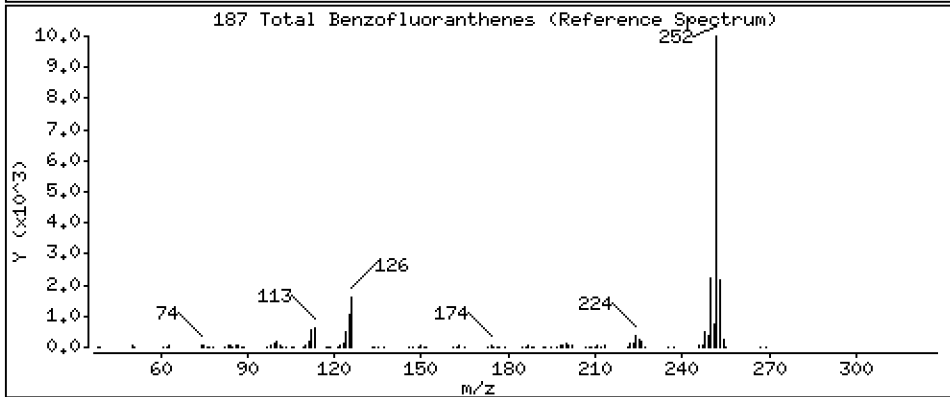
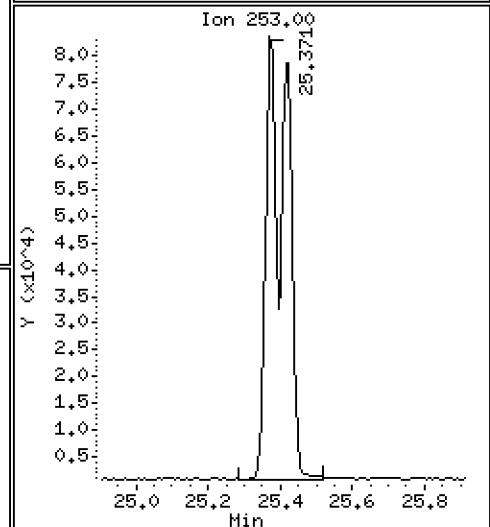
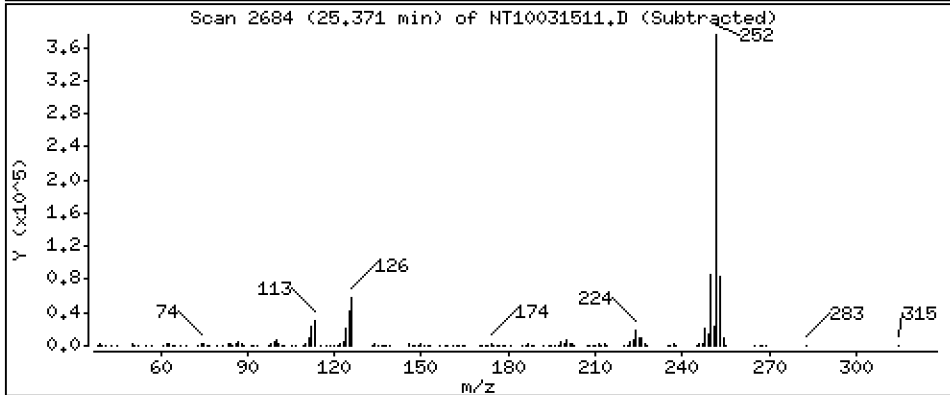
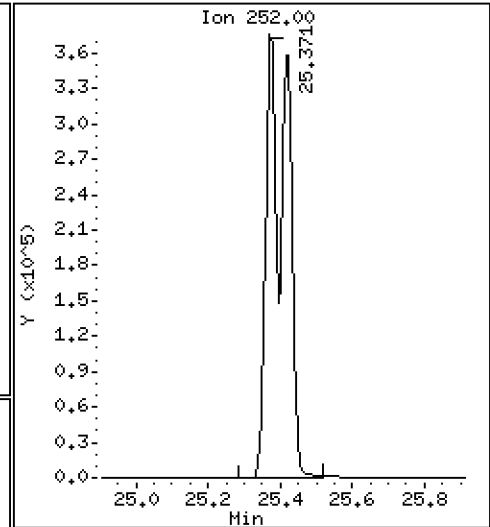
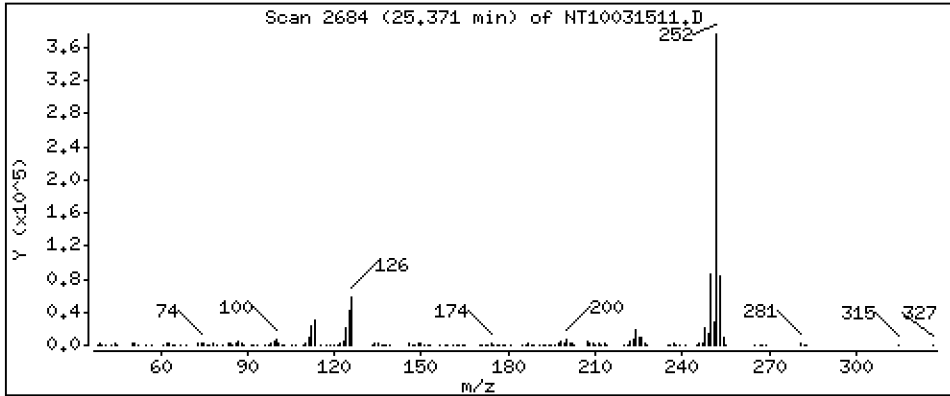
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,483 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

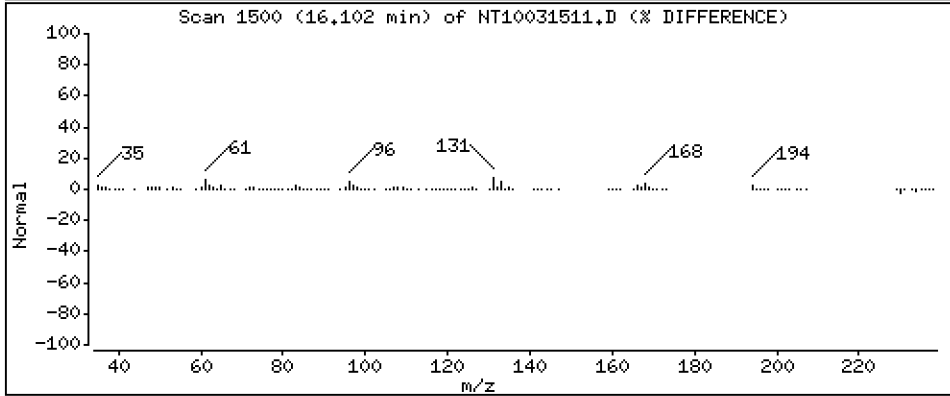
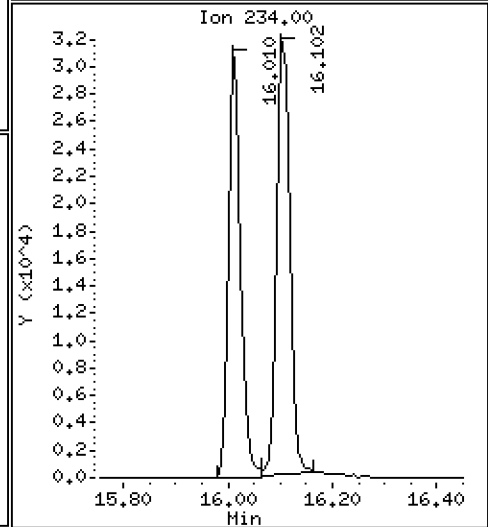
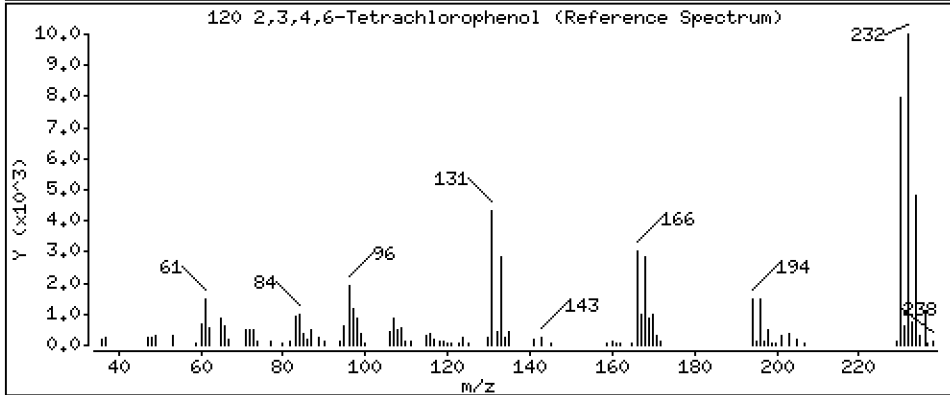
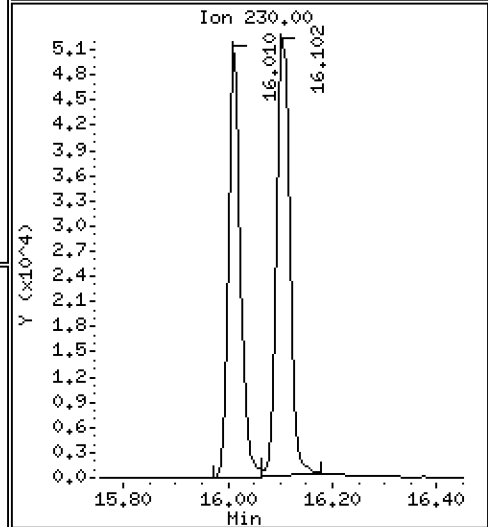
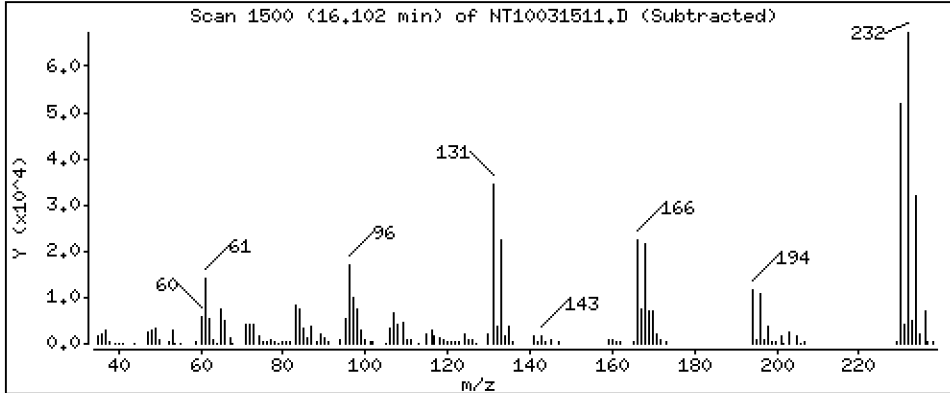
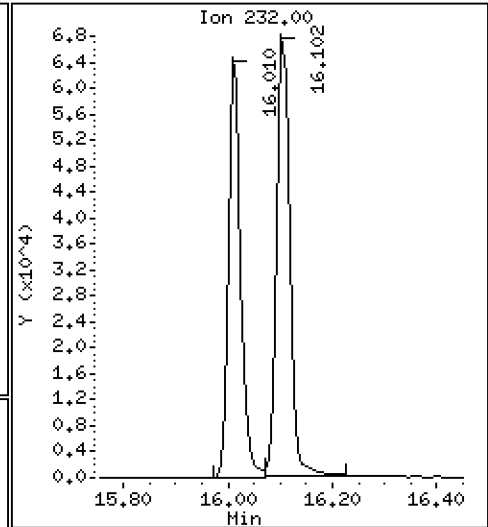
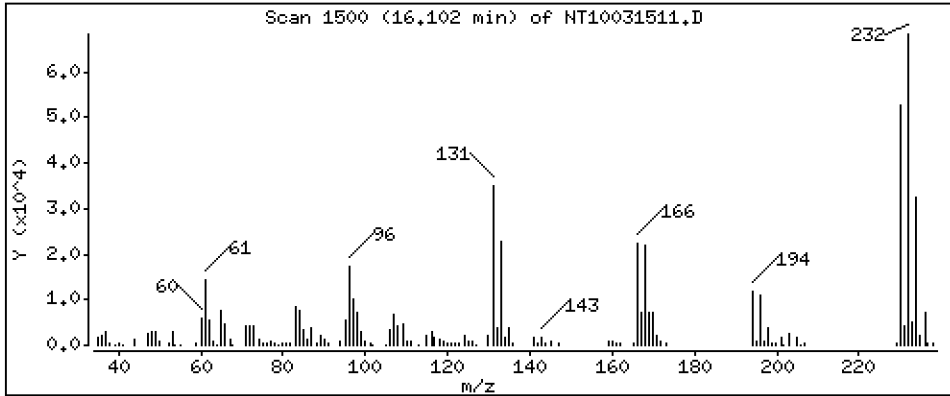
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,980 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031511.D  
 Lab Smp Id: SLC0228-SCV1  
 Inj Date : 16-MAR-2023 02:16  
 Operator : VTS Inst ID: nt10.i  
 Smp Info : SLC0228-SCV1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD  
 Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: ICAL.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE               | CONCENTRATIONS |         |
|---------------------------------|-------|-----|--------|--------|---------|------------------------|----------------|---------|
|                                 |       |     |        |        |         |                        | ON-COLUMN      | FINAL   |
|                                 | MASS  |     |        |        |         |                        | (ug/mL)        | (ug/mL) |
| \$ 1 2-Fluorophenol             | 112   |     |        |        |         | Compound Not Detected. |                |         |
| \$ 2 Phenol-d5                  | 99    |     |        |        |         | Compound Not Detected. |                |         |
| 3 Phenol                        | 94    |     | 8.659  | 8.652  | (0.931) | 281600                 | 4.41237        | 4.412   |
| \$ 5 2-Chlorophenol-d4          | 132   |     |        |        |         | Compound Not Detected. |                |         |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.837  | 8.837  | (0.950) | 248892                 | 5.25818        | 5.258   |
| 6 2-Chlorophenol                | 128   |     | 8.960  | 8.961  | (0.963) | 233608                 | 4.27685        | 4.277   |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.239  | 9.231  | (0.993) | 275540                 | 4.77157        | 4.772   |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.301  | 9.293  | (1.000) | 154809                 | 4.00000        |         |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.332  | 9.325  | (1.003) | 274051                 | 4.91272        | 4.913   |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     |        |        |         | Compound Not Detected. |                |         |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.689  | 9.682  | (1.042) | 268028                 | 4.88215        | 4.882   |
| 11 Benzyl alcohol               | 108   |     | 9.557  | 9.557  | (1.028) | 147597                 | 4.92722        | 4.927   |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.860  | 9.860  | (1.060) | 100179                 | 6.21363        | 6.214   |
| 13 2-Methylphenol               | 108   |     | 9.775  | 9.767  | (1.051) | 196115                 | 4.21542        | 4.215   |
| 17 Hexachloroethane             | 117   |     | 10.279 | 10.271 | (1.105) | 114513                 | 5.00332        | 5.003   |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 10.116 | 10.108 | (1.088) | 190250                 | 5.17896        | 5.179   |
| 15 4-Methylphenol               | 108   |     | 10.046 | 10.031 | (1.080) | 213951                 | 4.36462        | 4.365   |
| \$ 18 Nitrobenzene-d5           | 82    |     |        |        |         | Compound Not Detected. |                |         |
| 19 Nitrobenzene                 | 77    |     | 10.426 | 10.419 | (0.885) | 274714                 | 4.85798        | 4.858   |
| 20 Isophorone                   | 82    |     | 10.861 | 10.861 | (0.922) | 556741                 | 7.69604        | 7.696   |
| 21 2-Nitrophenol                | 139   |     | 11.047 | 11.048 | (0.938) | 110302                 | 3.99452        | 3.995   |
| 22 2,4-Dimethylphenol           | 107   |     | 11.081 | 11.082 | (0.941) | 188638                 | 3.63181        | 3.632   |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.285 | 11.285 | (0.958) | 273219                 | 5.65409        | 5.654   |
| 24 Benzoic acid                 | 105   |     | 11.217 | 11.166 | (0.952) | 173961                 | 5.95241        | 5.952   |
| 25 2,4-Dichlorophenol           | 162   |     | 11.489 | 11.489 | (0.975) | 195480                 | 4.70301        | 4.703   |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.685 | 11.685 | (0.992) | 222176                 | 4.55366        | 4.554   |
| * 27 Naphthalene-d8             | 136   |     | 11.777 | 11.770 | (1.000) | 570882                 | 4.00000        |         |
| 28 Naphthalene                  | 128   |     | 11.816 | 11.816 | (1.003) | 713318                 | 4.71662        | 4.717   |
| 29 4-Chloroaniline              | 127   |     | 11.940 | 11.940 | (1.014) | 223402                 | 3.78650        | 3.787   |
| 30 Hexachlorobutadiene          | 225   |     | 12.171 | 12.172 | (1.033) | 138198                 | 4.83404        | 4.834   |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.876 | 12.876 | (1.093) | 208794                 | 4.64027        | 4.640   |
| 32 2-Methylnaphthalene          | 142   |     | 13.201 | 13.201 | (1.121) | 501627                 | 4.59617        | 4.596   |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.665 | 13.665 | (0.888) | 132827                 | 4.72902        | 4.729   |

| Compounds                         | QUANT | SIG |                        |        |         |        |          | CONCENTRATIONS       |                  |
|-----------------------------------|-------|-----|------------------------|--------|---------|--------|----------|----------------------|------------------|
|                                   |       |     | MASS                   | RT     | EXP RT  | REL RT | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196   |     | 13.820                 | 13.820 | (0.898) | 137849 | 4.59559  | 4.596                |                  |
| 35 2,4,5-Trichlorophenol          | 196   |     | 13.889                 | 13.890 | (0.903) | 146935 | 4.40855  | 4.409                |                  |
| § 36 2-Fluorobiphenyl             | 172   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 37 2-Chloronaphthalene            | 162   |     | 14.199                 | 14.191 | (0.923) | 466196 | 4.79589  | 4.796                |                  |
| 38 2-Nitroaniline                 | 65    |     | 14.454                 | 14.447 | (0.940) | 134108 | 4.91137  | 4.911                |                  |
| 39 Dimethylphthalate              | 163   |     | 14.880                 | 14.873 | (0.967) | 486790 | 4.93747  | 4.937                |                  |
| 40 Acenaphthylene                 | 152   |     | 15.074                 | 15.066 | (0.980) | 727839 | 4.80509  | 4.805                |                  |
| 41 2,6-Dinitrotoluene             | 165   |     | 15.020                 | 15.012 | (0.976) | 112840 | 5.29815  | 5.298                |                  |
| * 42 Acenaphthene-d10             | 164   |     | 15.383                 | 15.383 | (1.000) | 303490 | 4.00000  |                      |                  |
| 43 3-Nitroaniline                 | 138   |     | 15.306                 | 15.298 | (0.995) | 120530 | 5.01393  | 5.014                |                  |
| 44 Acenaphthene                   | 153   |     | 15.453                 | 15.445 | (1.005) | 446914 | 4.77589  | 4.776                |                  |
| 45 2,4-Dinitrophenol              | 184   |     | 15.515                 | 15.515 | (1.009) | 27409  | 2.12395  | 2.124                |                  |
| 46 Dibenzofuran                   | 168   |     | 15.777                 | 15.770 | (1.026) | 641379 | 4.64790  | 4.648                |                  |
| 47 4-Nitrophenol                  | 109   |     | 15.600                 | 15.592 | (1.014) | 59816  | 3.96568  | 3.966                |                  |
| 48 2,4-Dinitrotoluene             | 165   |     | 15.824                 | 15.817 | (1.029) | 144262 | 4.51019  | 4.510                |                  |
| 50 Diethylphthalate               | 149   |     | 16.326                 | 16.319 | (1.061) | 503887 | 5.20905  | 5.209                |                  |
| 49 Fluorene                       | 166   |     | 16.489                 | 16.481 | (1.072) | 511113 | 4.70796  | 4.708                |                  |
| 51 4-Chlorophenyl-phenylether     | 204   |     | 16.473                 | 16.466 | (1.071) | 257762 | 4.99294  | 4.993                |                  |
| 52 4-Nitroaniline                 | 138   |     | 16.566                 | 16.566 | (1.077) | 106701 | 4.92532  | 4.925                |                  |
| 53 4,6-Dinitro-2-methylphenol     | 198   |     | 16.666                 | 16.658 | (0.905) | 56867  | 3.51509  | 3.515                |                  |
| 54 N-Nitrosodiphenylamine         | 169   |     | 16.720                 | 16.712 | (0.908) | 342454 | 4.80180  | 4.802                |                  |
| § 55 2,4,6-Tribromophenol         | 330   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 56 4-Bromophenyl-phenylether      | 248   |     | 17.475                 | 17.476 | (0.949) | 150956 | 5.05964  | 5.060                |                  |
| 57 Hexachlorobenzene              | 284   |     | 17.800                 | 17.793 | (0.966) | 143751 | 4.59553  | 4.596                |                  |
| 58 Pentachlorophenol              | 266   |     | 18.149                 | 18.149 | (0.985) | 75635  | 4.05676  | 4.057                |                  |
| * 59 Phenanthrene-d10             | 188   |     | 18.420                 | 18.420 | (1.000) | 533431 | 4.00000  |                      |                  |
| 60 Phenanthrene                   | 178   |     | 18.466                 | 18.466 | (1.003) | 669357 | 4.60181  | 4.602                |                  |
| 61 Anthracene                     | 178   |     | 18.559                 | 18.559 | (1.008) | 581438 | 4.16715  | 4.167                |                  |
| 62 Carbazole                      | 167   |     | 18.884                 | 18.884 | (1.025) | 591382 | 4.72989  | 4.730                |                  |
| 63 Di-n-butylphthalate            | 149   |     | 19.665                 | 19.666 | (1.068) | 830680 | 4.96738  | 4.967                |                  |
| 64 Fluoranthene                   | 202   |     | 20.841                 | 20.841 | (0.888) | 782432 | 4.47248  | 4.472                |                  |
| 65 Pyrene                         | 202   |     | 21.267                 | 21.267 | (0.907) | 778668 | 4.33892  | 4.339                |                  |
| § 66 Terphenyl-d14                | 244   |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 67 Butylbenzylphthalate           | 149   |     | 22.459                 | 22.460 | (0.957) | 314007 | 4.83397  | 4.834                |                  |
| 68 Benzo(a)anthracene             | 228   |     | 23.427                 | 23.419 | (0.999) | 714166 | 4.64722  | 4.647                |                  |
| * 69 Chrysene-d12                 | 240   |     | 23.458                 | 23.450 | (1.000) | 435381 | 4.00000  |                      |                  |
| 70 3,3'-Dichlorobenzidine         | 252   |     | 23.373                 | 23.373 | (0.996) | 483256 | 9.81738  | 9.817                |                  |
| 71 Chrysene                       | 228   |     | 23.497                 | 23.489 | (1.002) | 677151 | 4.51017  | 4.510                |                  |
| 72 bis(2-Ethylhexyl)phthalate     | 149   |     | 23.481                 | 23.474 | (0.959) | 453669 | 4.67998  | 4.680                |                  |
| * 134 Di-n-octylphthalate-d4      | 153   |     | 24.487                 | 24.480 | (1.000) | 660827 | 4.00000  |                      |                  |
| 73 Di-n-octylphthalate            | 149   |     | 24.495                 | 24.488 | (1.000) | 855562 | 4.94734  | 4.947                |                  |
| 74 Benzo(b)fluoranthene           | 252   |     | 25.370                 | 25.362 | (0.969) | 737887 | 4.60200  | 4.602 (H)            |                  |
| 75 Benzo(k)fluoranthene           | 252   |     | 25.416                 | 25.409 | (0.970) | 797521 | 4.89839  | 4.898                |                  |
| 76 Benzo(a)pyrene                 | 252   |     | 26.067                 | 26.052 | (0.995) | 698616 | 4.87338  | 4.873                |                  |
| * 77 Perylene-d12                 | 264   |     | 26.191                 | 26.183 | (1.000) | 494648 | 4.00000  |                      |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276   |     | 29.005                 | 28.990 | (1.107) | 834672 | 4.57655  | 4.577                |                  |
| 79 Dibenzo(a,h)anthracene         | 278   |     | 29.021                 | 29.005 | (1.108) | 688433 | 4.54663  | 4.547                |                  |
| 80 Benzo(g,h,i)perylene           | 276   |     | 29.852                 | 29.821 | (1.140) | 724463 | 4.59000  | 4.590                |                  |
| 90 N-Nitrosodimethylamine         | 74    |     | 4.928                  | 4.936  | (0.530) | 155126 | 5.19378  | 5.194                |                  |
| 91 Aniline                        | 93    |     | Compound Not Detected. |        |         |        |          |                      |                  |
| 93 Benzidine                      | 184   |     | 21.073                 | 21.066 | (0.898) | 314737 | 4.37985  | 4.380                |                  |
| 103 Pyridine                      | 79    |     | 4.959                  | 4.997  | (0.533) | 244801 | 5.33678  | 5.337                |                  |
| 105 1-methylnaphthalene           | 142   |     | 13.425                 | 13.425 | (1.140) | 487498 | 4.87520  | 4.875                |                  |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77    |     | 16.797                 | 16.789 | (1.092) | 533524 | 4.93744  | 4.937                |                  |



| Compounds                     | QUANT SIG |  | CONCENTRATIONS |        |         |          |                      |                  |
|-------------------------------|-----------|--|----------------|--------|---------|----------|----------------------|------------------|
|                               | MASS      |  | RT             | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| =====                         | =====     |  | =====          | =====  | =====   | =====    | =====                | =====            |
| 187 Total Benzofluoranthenes  | 252       |  | 25.370         | 25.409 | (0.969) | 1468165  | 9.48349              | 9.483            |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 16.102         | 16.103 | (1.047) | 124685   | 3.97959              | 3.980            |

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023  
 Lab File ID: NT10031511.D Calibration Time: 21:50  
 Lab Smp Id: SLC0228-SCV1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 171542   | 85771      | 343084  | 154809 | -9.75  |
| 27 Naphthalene-d8     | 624466   | 312233     | 1248932 | 570882 | -8.58  |
| 42 Acenaphthene-d10   | 337226   | 168613     | 674452  | 303490 | -10.00 |
| 59 Phenanthrene-d10   | 572849   | 286425     | 1145698 | 533431 | -6.88  |
| 69 Chrysene-d12       | 347068   | 173534     | 694136  | 435381 | 25.45  |
| 134 Di-n-octylphthala | 500317   | 250159     | 1000634 | 660827 | 32.08  |
| 77 Perylene-d12       | 421549   | 210775     | 843098  | 494648 | 17.34  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.30     | 8.80     | 9.80  | 9.30   | -0.00 |
| 27 Naphthalene-d8     | 11.78    | 11.28    | 12.28 | 11.78  | 0.01  |
| 42 Acenaphthene-d10   | 15.38    | 14.88    | 15.88 | 15.38  | 0.00  |
| 59 Phenanthrene-d10   | 18.42    | 17.92    | 18.92 | 18.42  | 0.00  |
| 69 Chrysene-d12       | 23.45    | 22.95    | 23.95 | 23.46  | 0.04  |
| 134 Di-n-octylphthala | 24.48    | 23.98    | 24.98 | 24.49  | 0.03  |
| 77 Perylene-d12       | 26.18    | 25.68    | 26.68 | 26.19  | 0.03  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT10031511.D

Lab ID: SLC0228-SCV1  
nt10.i, 20230315.b\ABN.m, 16-MAR-2023 02:16

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

\*\* FIRST SURROGATE NOT FOUND. ICAL Check not performed \*\*

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND     |
|-------|---------|--------|--------------|
| 0.952 | 0.000   | 0.9524 | Benzoic acid |

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*



**CONTINUING CALIBRATION CHECK**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT10

Calibration: GC00046

Lab File ID: NT1003222333.D

Calibration Date: 03/15/2023

Sequence: SLC0397

Injection Date: 03/23/23

Lab Sample ID: SLC0397-CCV1

Injection Time: 13:22

Sequence Name: Calibration Check

| COMPOUND                    | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|-----------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|-------|
|                             |      | STD           | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Phenol                      | A    | 5.0000        | 4.8  | 1.6490140             | 1.5773250 |     | -4.3         | +/-50 |
| 4-Methylphenol              | A    | 5.0000        | 5.0  | 1.2665770             | 1.2705760 |     | 0.3          | +/-50 |
| Naphthalene                 | A    | 5.0000        | 4.8  | 1.0596590             | 1.0142630 |     | -4.3         | +/-50 |
| 2-Methylnaphthalene         | A    | 5.0000        | 5.2  | 0.7647129             | 0.8028074 |     | 5.0          | +/-50 |
| Acenaphthylene              | A    | 5.0000        | 5.3  | 1.9964080             | 2.1279410 |     | 6.6          | +/-50 |
| Dimethylphthalate           | A    | 5.0000        | 5.1  | 1.2994310             | 1.3330950 |     | 2.6          | +/-50 |
| Acenaphthene                | A    | 5.0000        | 4.8  | 1.2333460             | 1.1824270 |     | -4.1         | +/-50 |
| Dibenzofuran                | A    | 5.0000        | 4.8  | 1.8187540             | 1.7571130 |     | -3.4         | +/-50 |
| Fluorene                    | A    | 5.0000        | 5.0  | 1.4308680             | 1.4300750 |     | -0.06        | +/-50 |
| Phenanthrene                | A    | 5.0000        | 4.8  | 1.0907130             | 1.0442280 |     | -4.3         | +/-50 |
| Anthracene                  | A    | 5.0000        | 5.1  | 1.0462760             | 1.0628550 |     | 1.6          | +/-50 |
| Fluoranthene                | A    | 5.0000        | 4.1  | 1.6072690             | 1.3180210 |     | -18.0        | +/-50 |
| Pyrene                      | A    | 5.0000        | 4.2  | 1.6487720             | 1.3711600 |     | -16.8        | +/-50 |
| Butylbenzylphthalate        | A    | 5.0000        | 4.9  | 0.5292894             | 0.5846832 |     | -2.1         | +/-50 |
| Benzo(a)anthracene          | A    | 5.0000        | 4.8  | 1.4118770             | 1.3610700 |     | -3.6         | +/-50 |
| Chrysene                    | A    | 5.0000        | 4.6  | 1.3793780             | 1.2642770 |     | -8.3         | +/-50 |
| bis(2-Ethylhexyl)phthalate  | A    | 5.0000        | 4.5  | 0.5248968             | 0.5291687 |     | -9.8         | +/-50 |
| Benzo(a)fluoranthene, Total | A    | 10.0000       | 10.4 | 1.2519020             | 1.2981960 |     | 3.7          | +/-50 |
| Benzo(a)pyrene              | A    | 5.0000        | 5.1  | 1.1592370             | 1.1937220 |     | 3.0          | +/-50 |
| Indeno(1,2,3-cd)pyrene      | A    | 5.0000        | 4.2  | 1.4748270             | 1.2494520 |     | -15.3        | +/-50 |
| Dibenzo(a,h)anthracene      | A    | 5.0000        | 4.4  | 1.2244340             | 1.0833760 |     | -11.5        | +/-50 |
| Benzo(g,h,i)perylene        | A    | 5.0000        | 3.8  | 1.2763410             | 0.9636889 |     | -24.5        | +/-50 |
| 2-Fluorophenol              | A    | 7.5000        | 7.53 | 1.2096460             | 1.2137910 |     | 0.3          | +/-50 |
| Phenol-d5                   | A    | 7.5000        | 7.55 | 1.5868760             | 1.5965040 |     | 0.6          | +/-50 |
| 2-Chlorophenol-d4           | A    | 7.5000        | 7.65 | 1.3550800             | 1.3819040 |     | 2.0          | +/-50 |
| 1,2-Dichlorobenzene-d4      | A    | 5.0000        | 4.88 | 0.9731556             | 0.9507077 |     | -2.3         | +/-50 |
| Nitrobenzene-d5             | A    | 5.0000        | 4.90 | 0.4037447             | 0.3956117 |     | -2.0         | +/-50 |
| 2-Fluorobiphenyl            | A    | 5.0000        | 4.85 | 1.5822890             | 1.5362140 |     | -2.9         | +/-50 |
| 2,4,6-Tribromophenol        | A    | 7.5000        | 8.64 | 0.1585901             | 0.2143872 |     | 15.2         | +/-50 |
| p-Terphenyl-d14             | A    | 5.0000        | 4.51 | 1.2381950             | 1.1157150 |     | -9.9         | +/-50 |

\* Values outside of QC limits

\* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222333.D

Date: 23-MAR-2023 13:22

Client ID:

Sample Info: SLC0397-CCW1

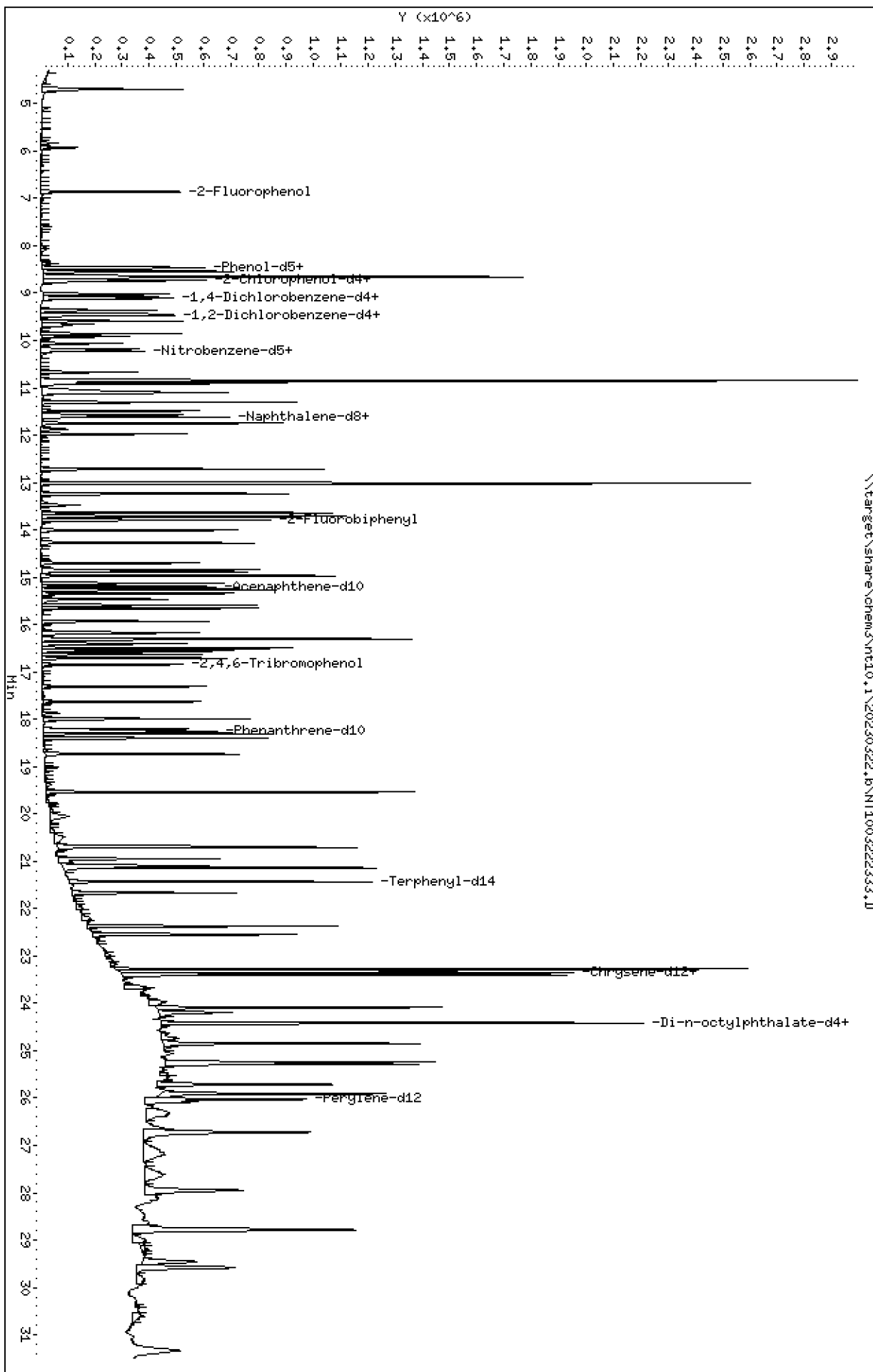
Page 1

Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

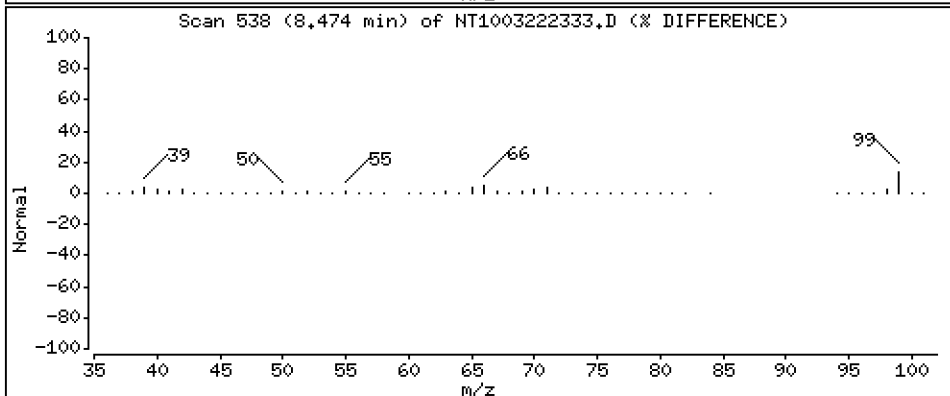
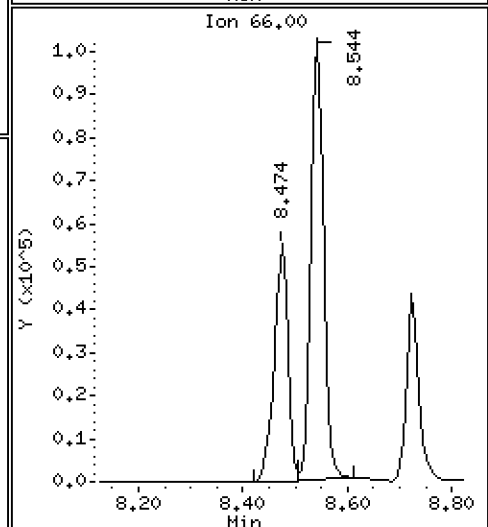
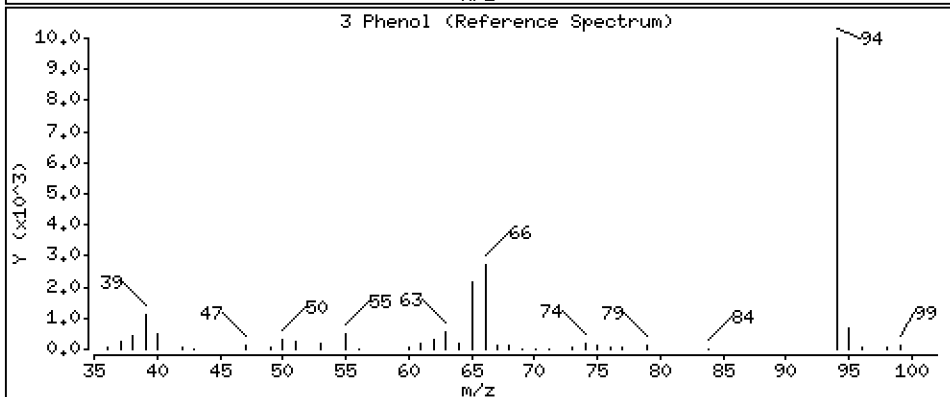
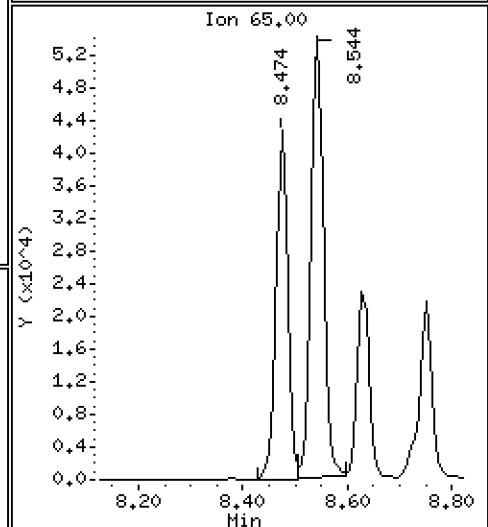
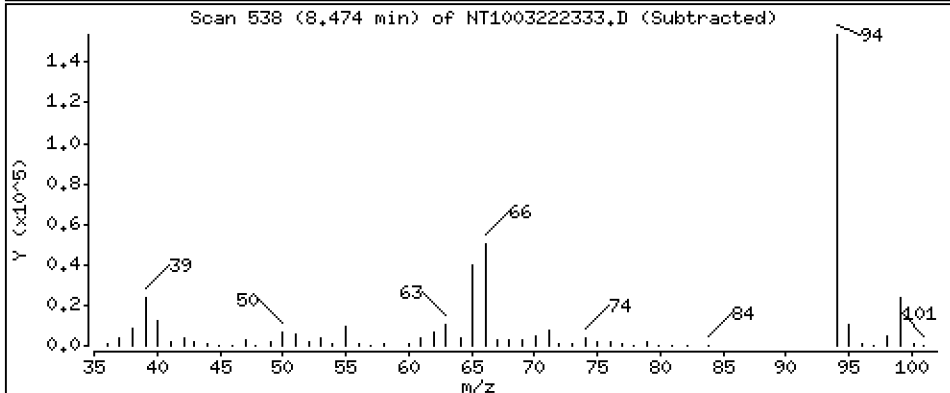
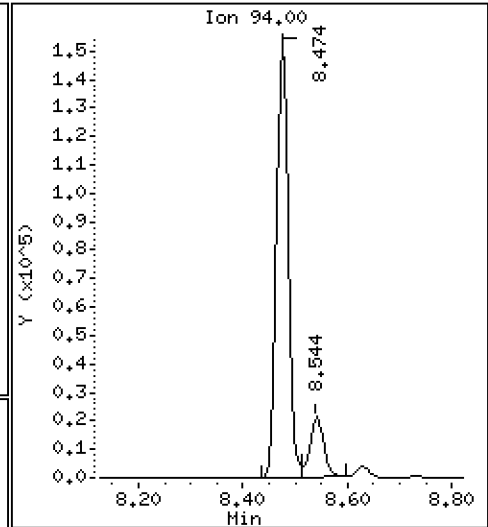
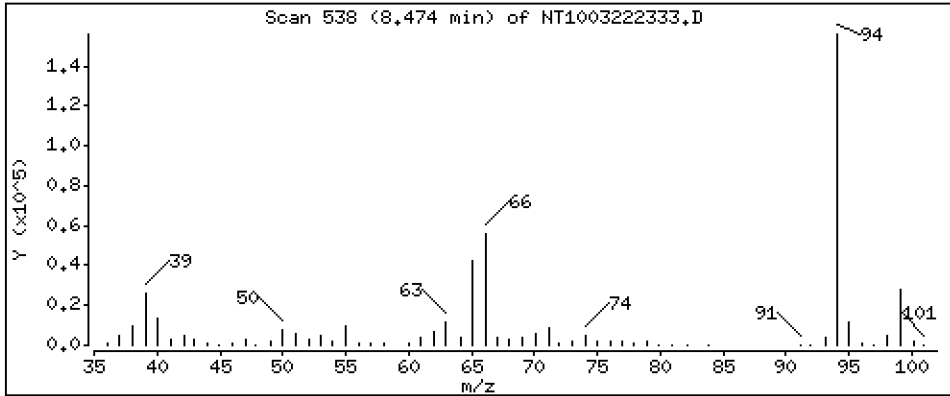
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 4,783 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

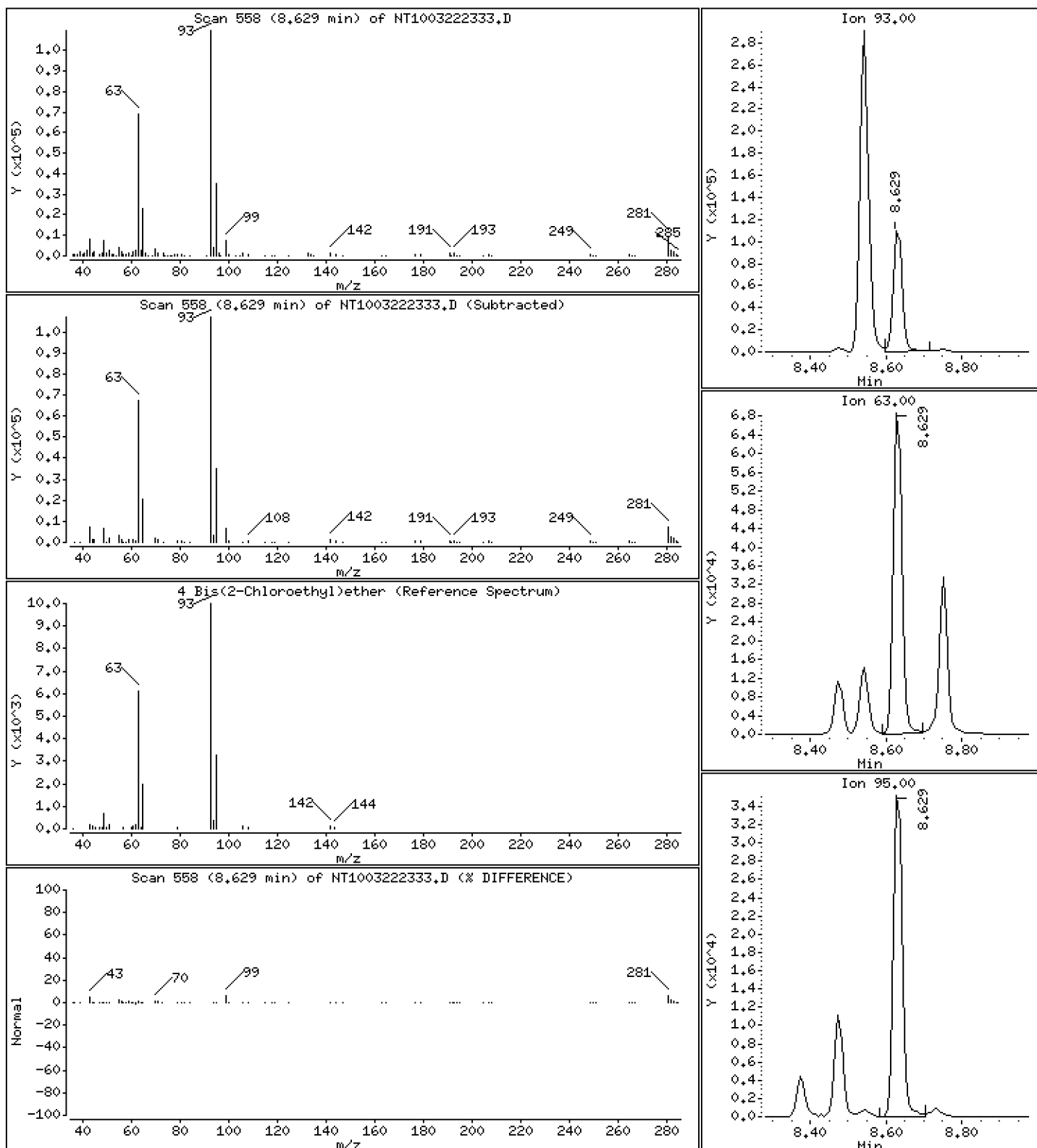
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,730 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

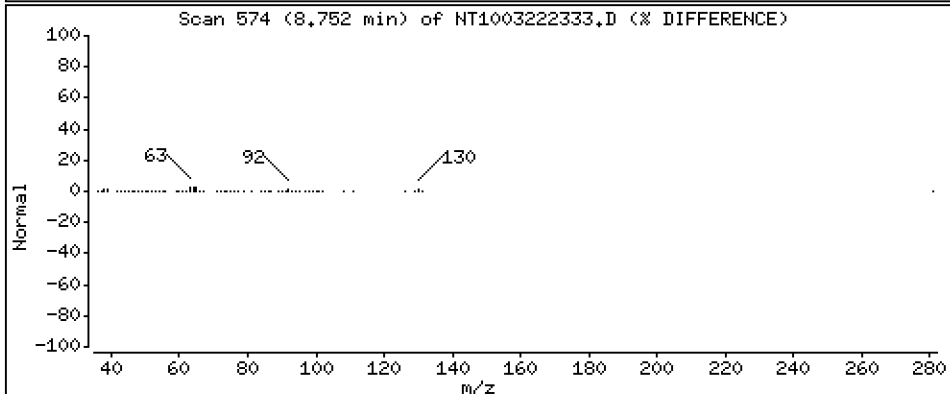
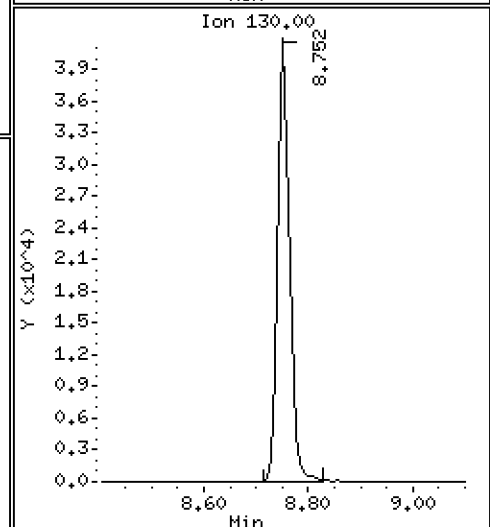
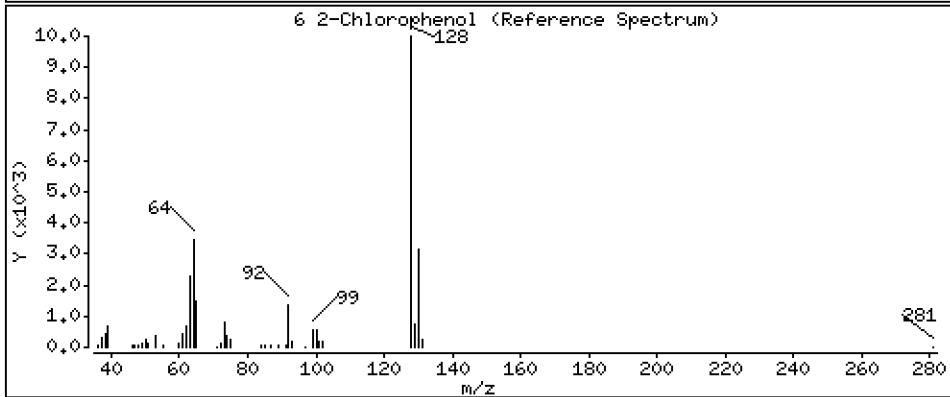
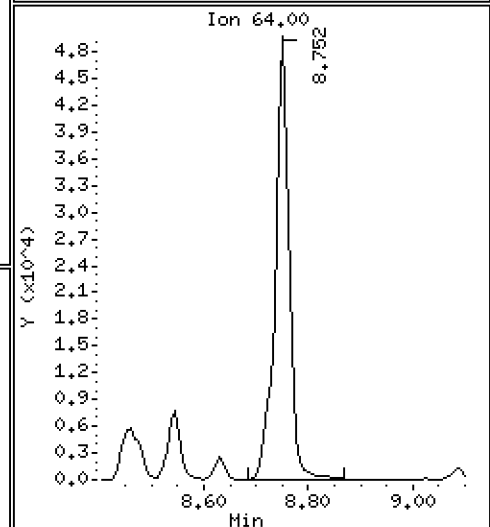
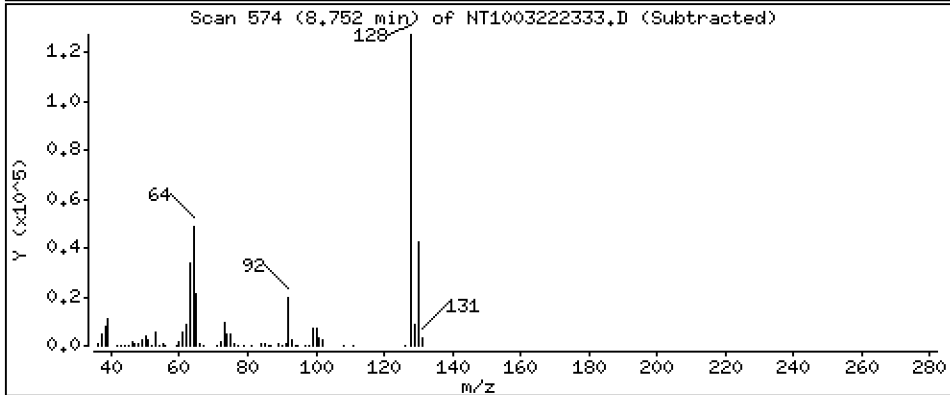
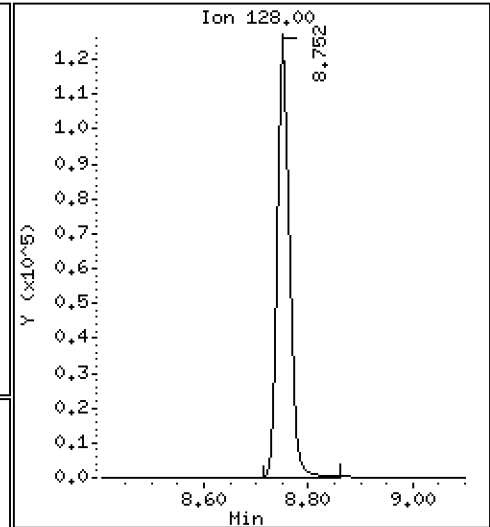
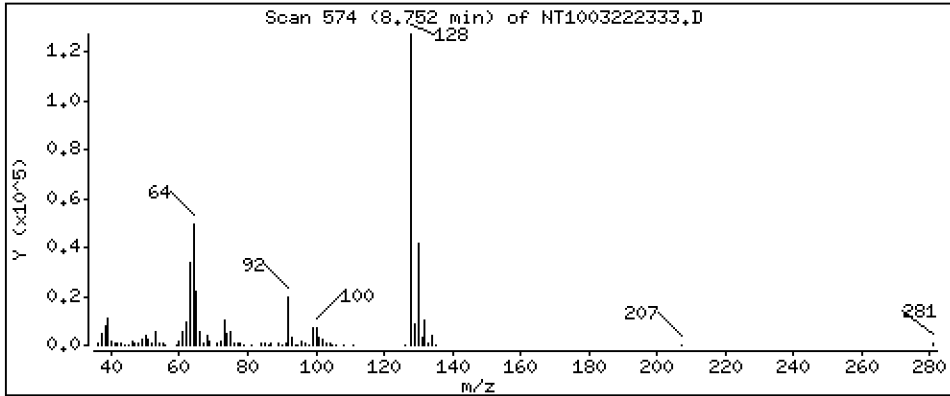
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,880 ug/mL





Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

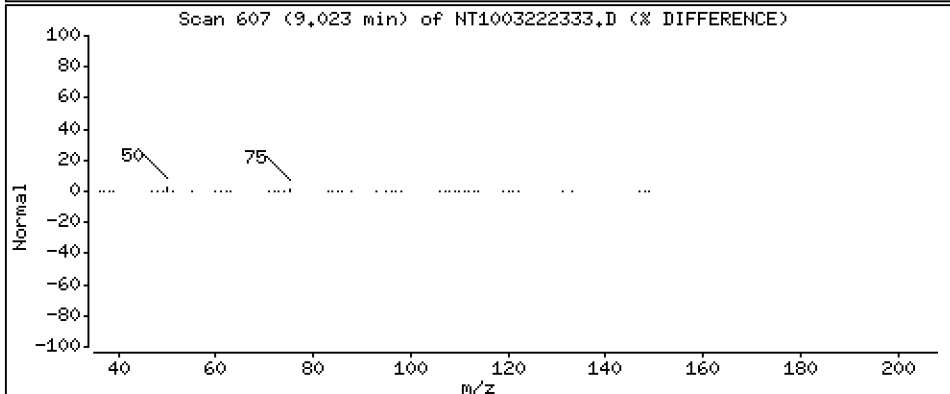
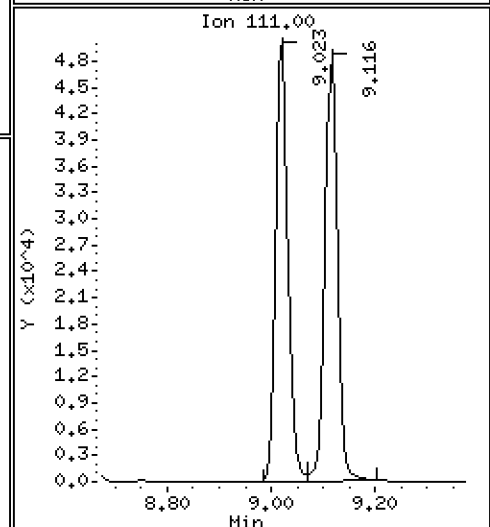
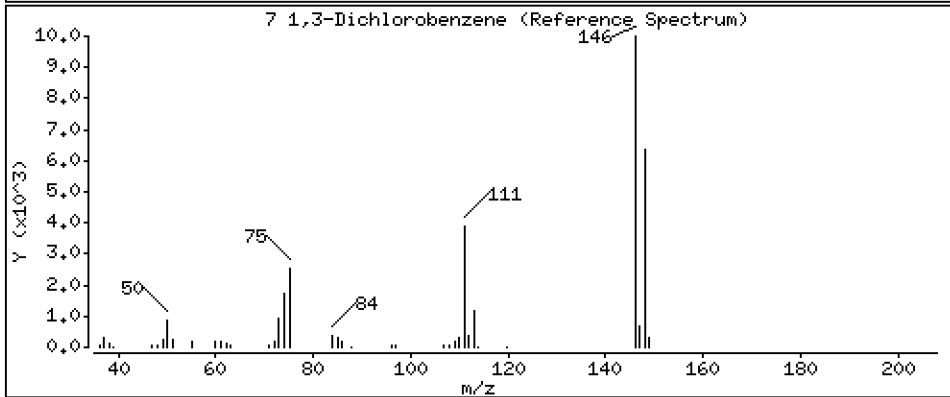
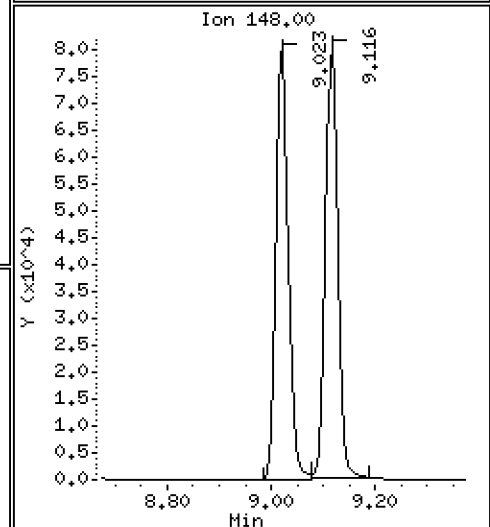
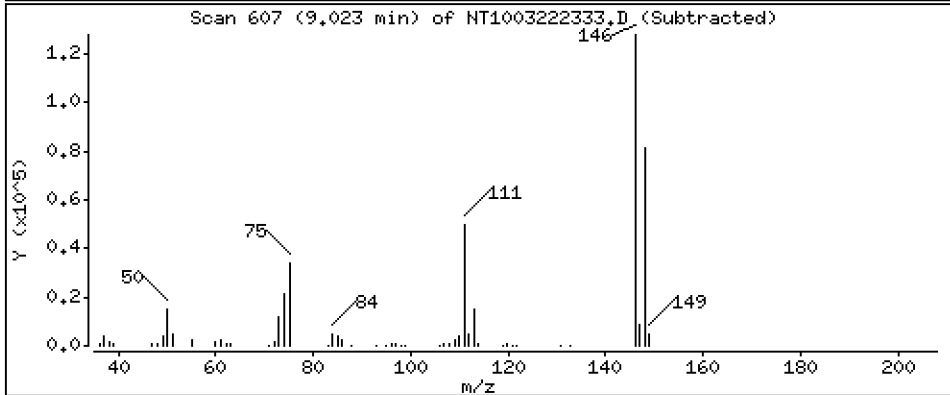
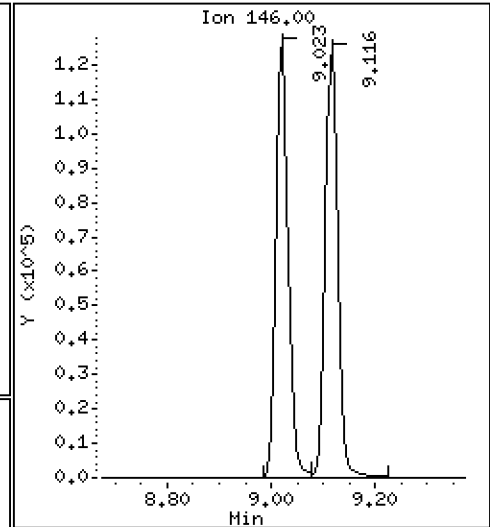
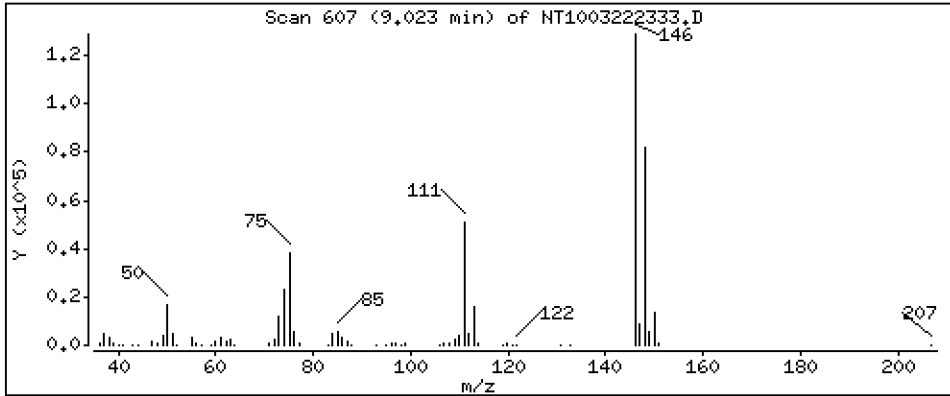
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 4,762 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

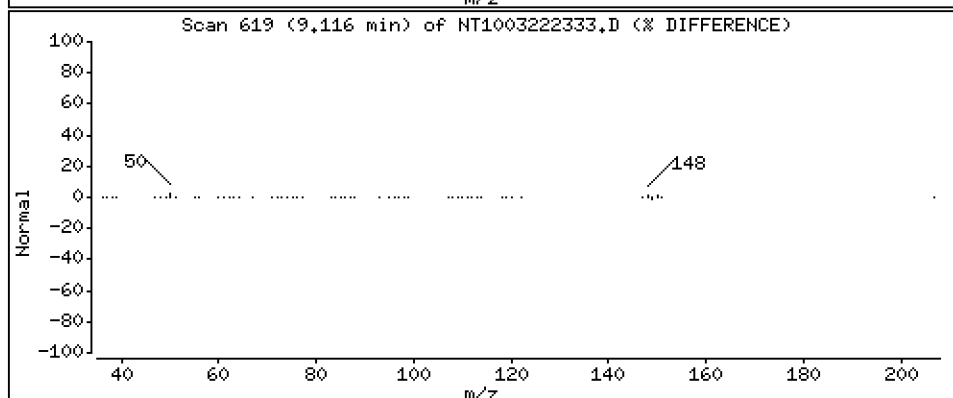
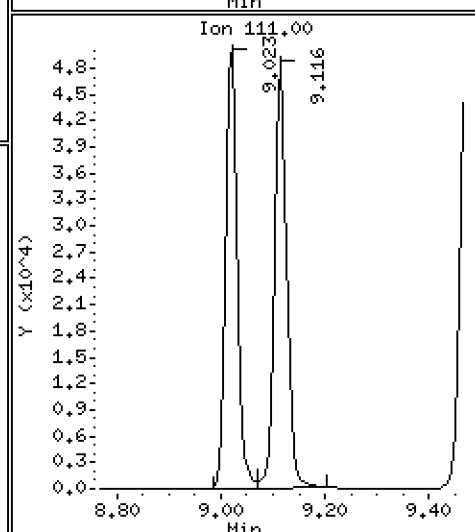
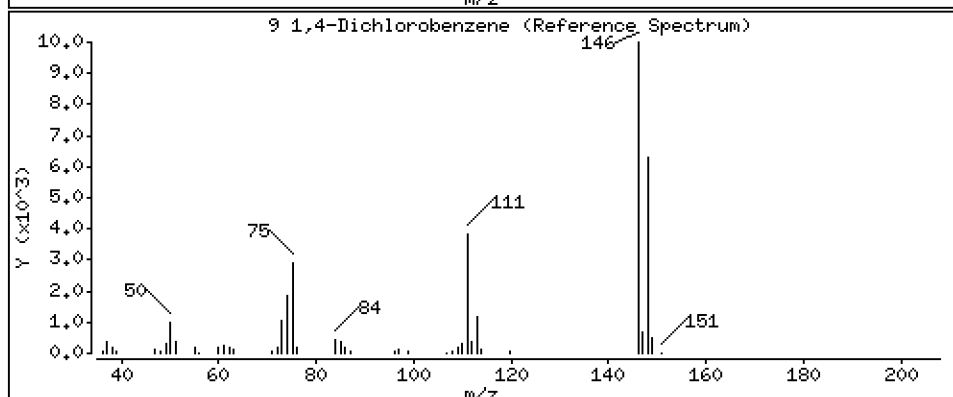
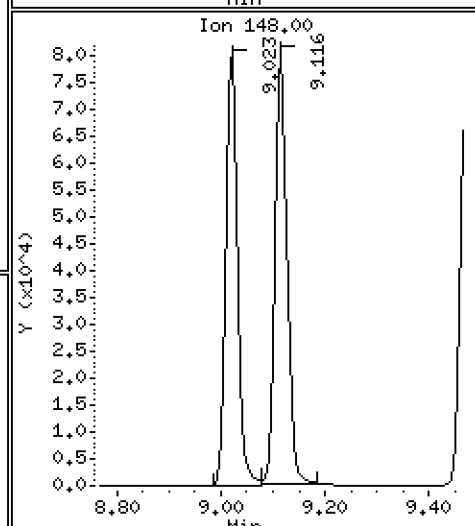
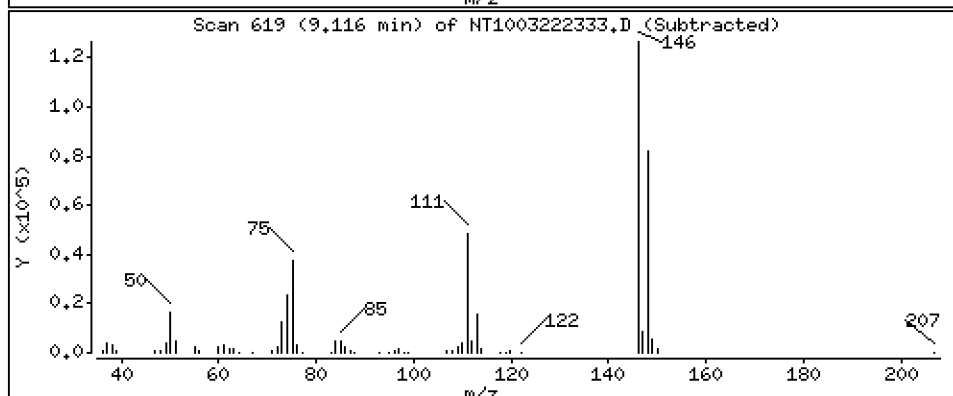
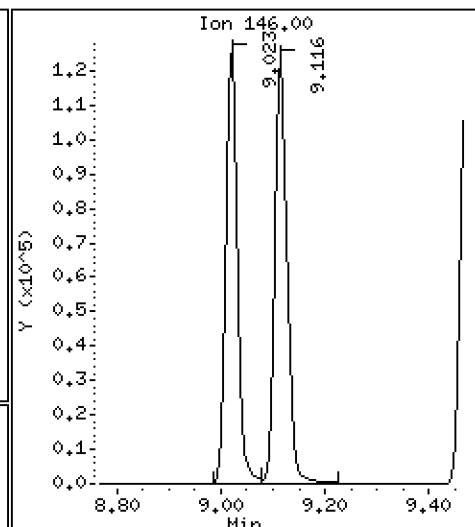
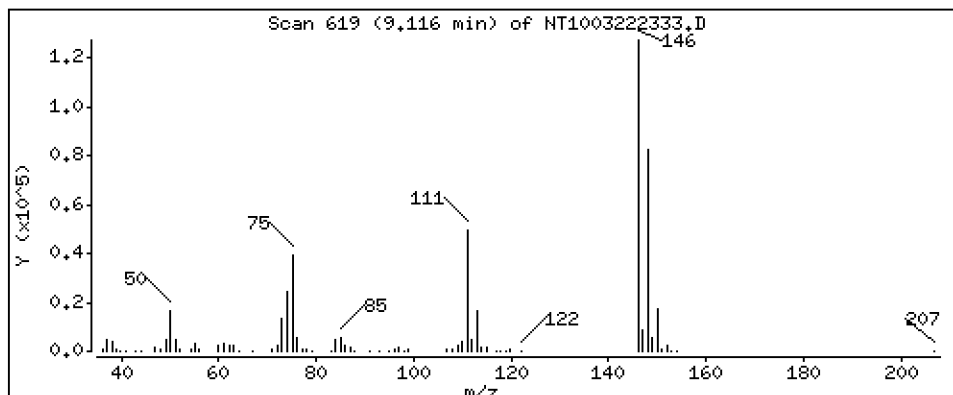
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,804 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

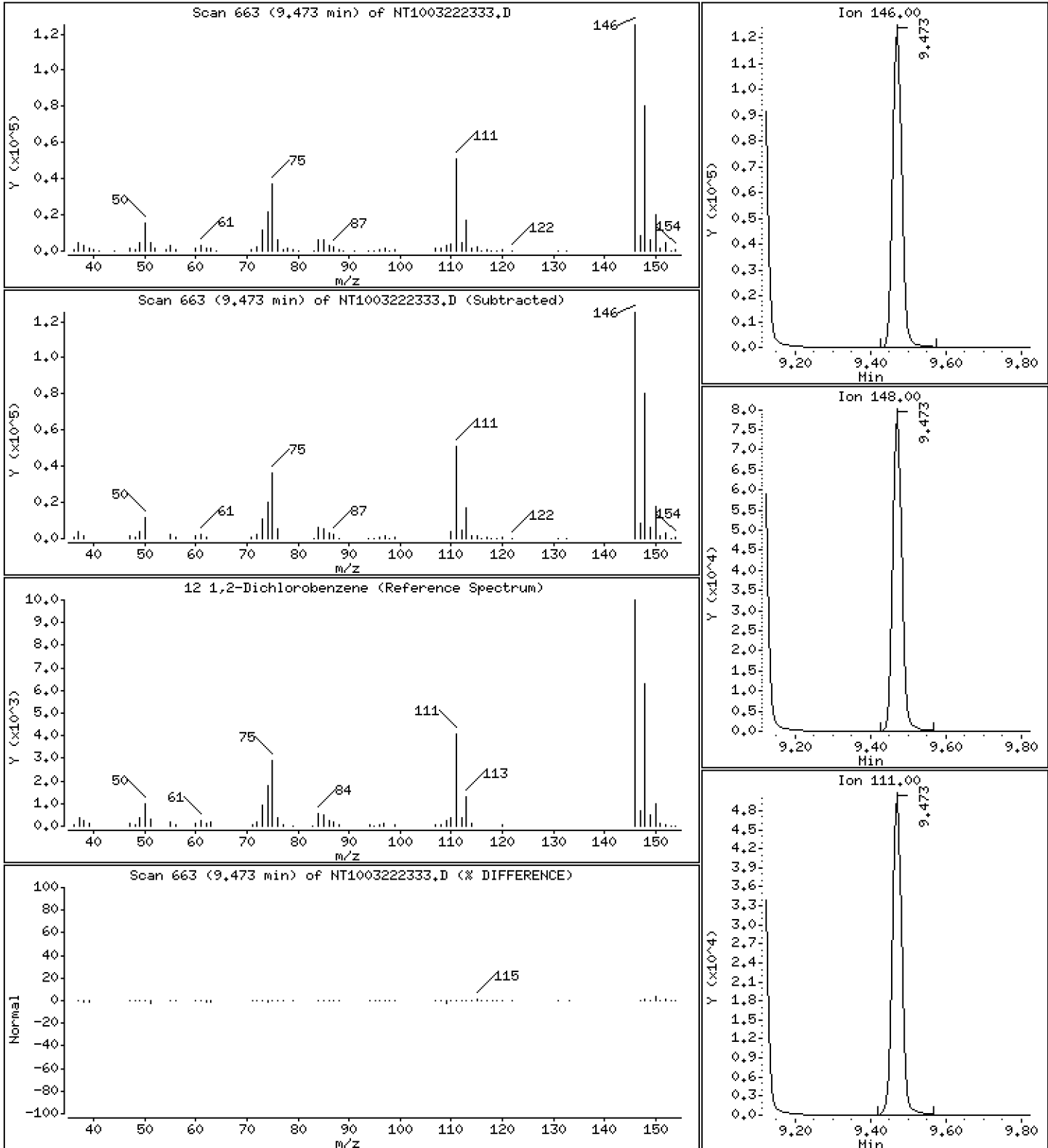
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,813 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

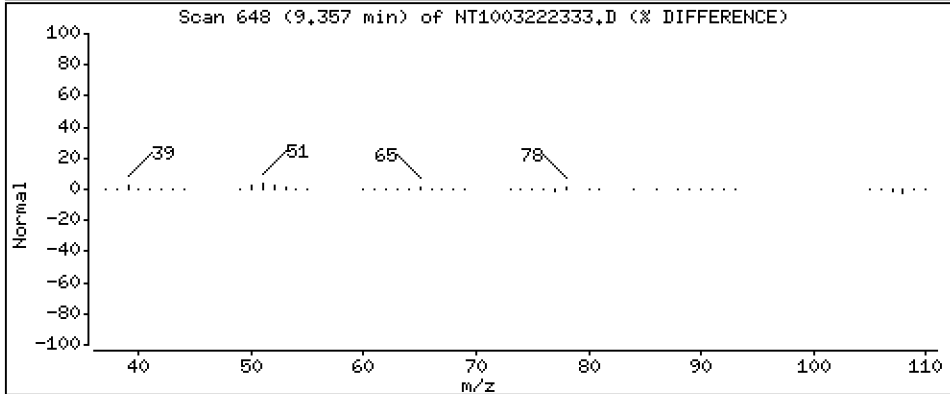
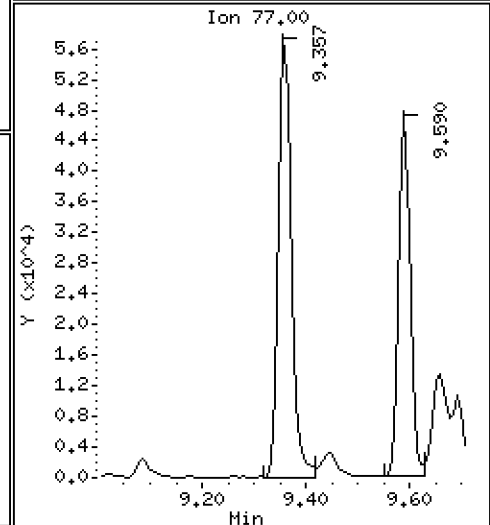
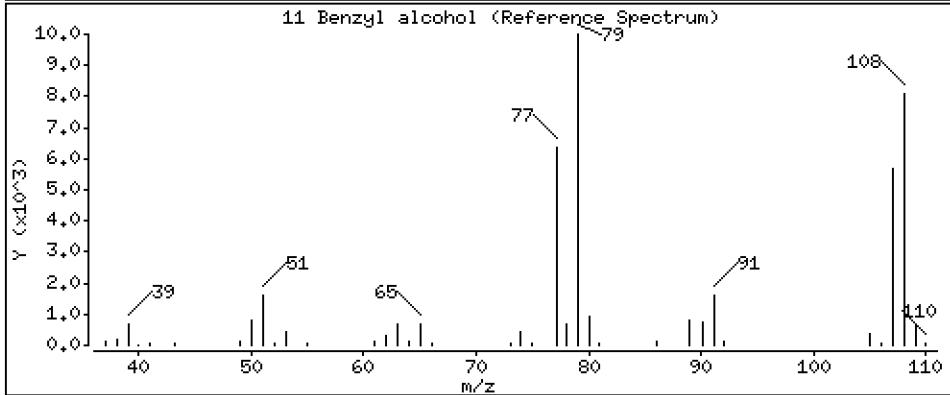
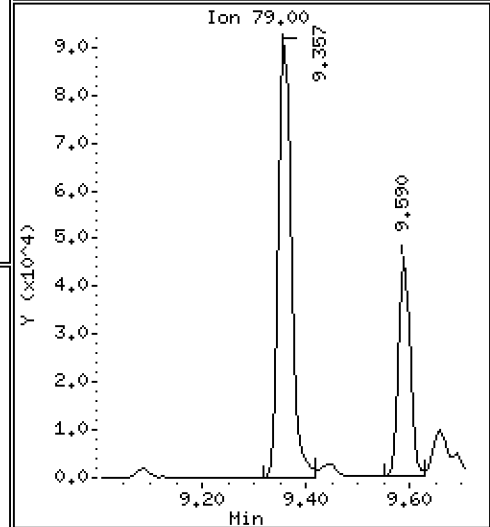
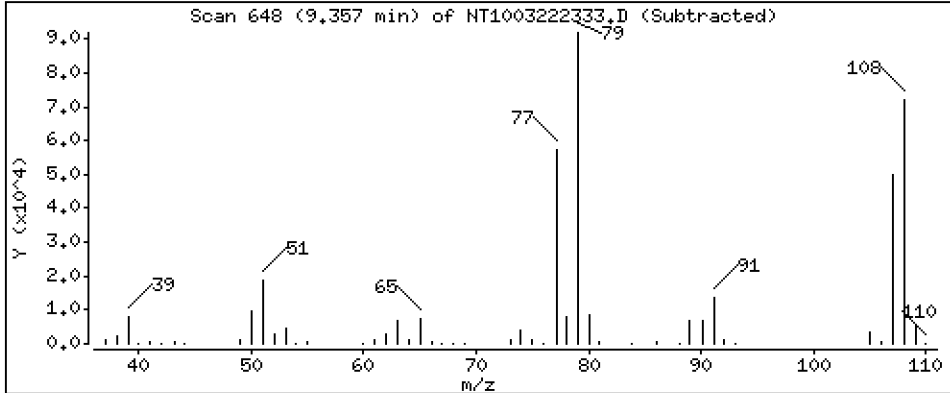
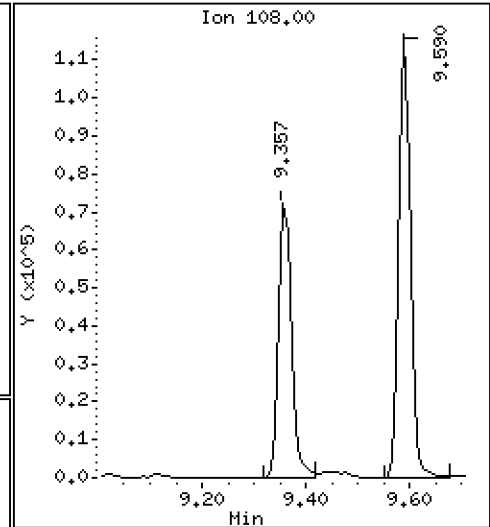
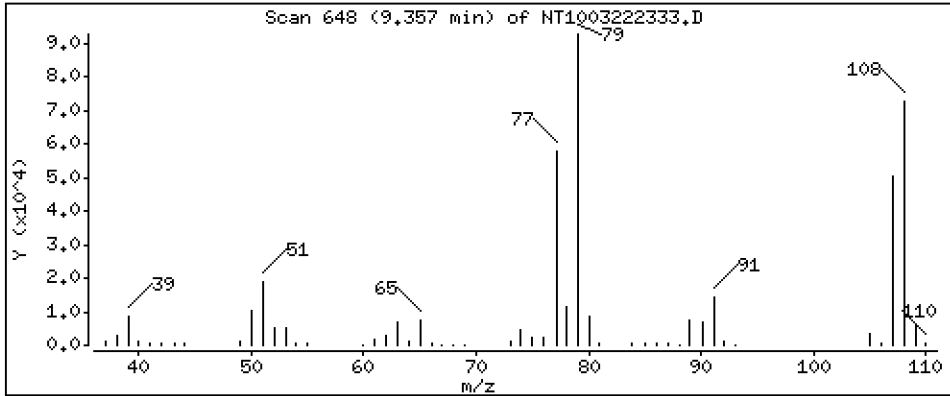
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 5,312 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

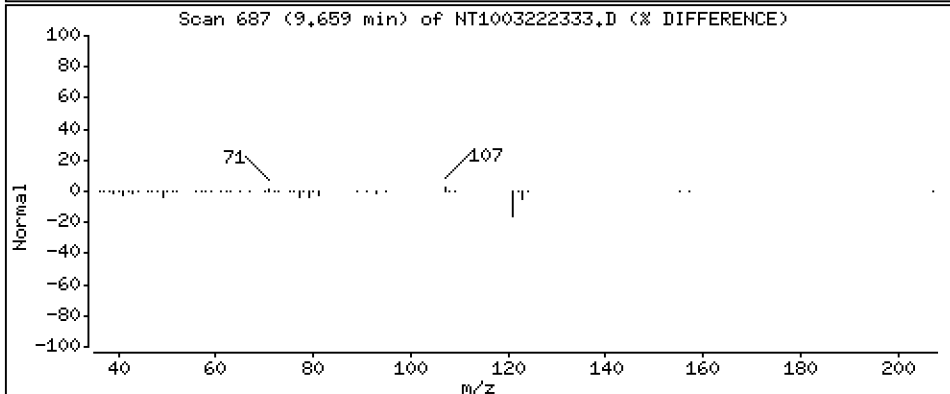
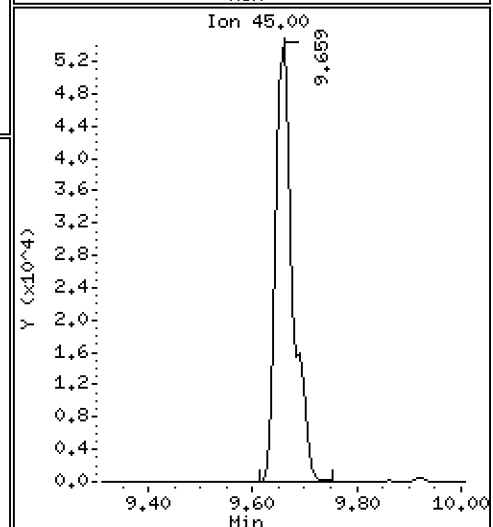
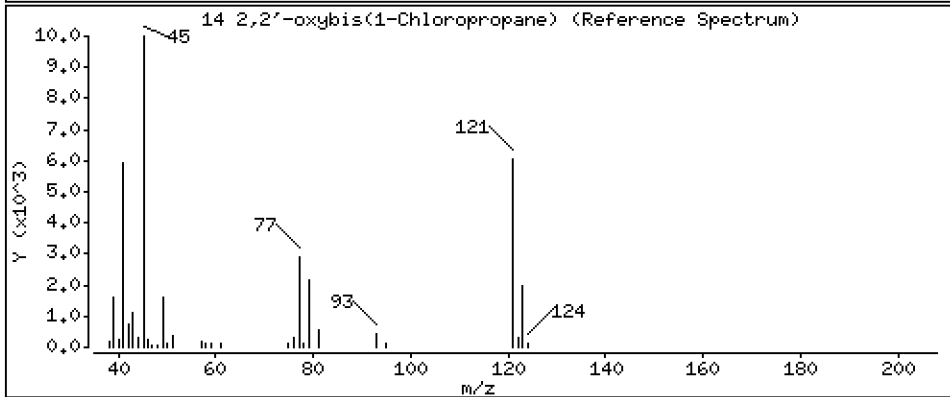
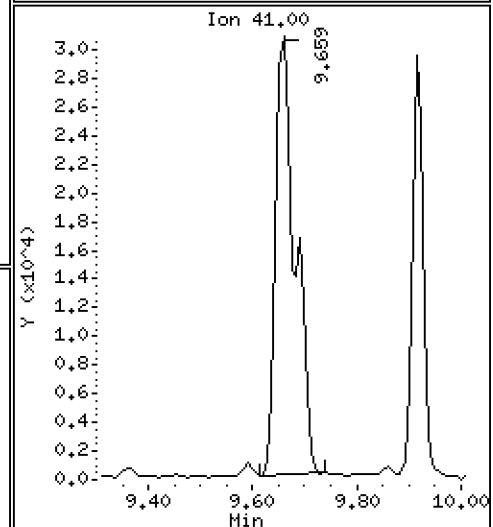
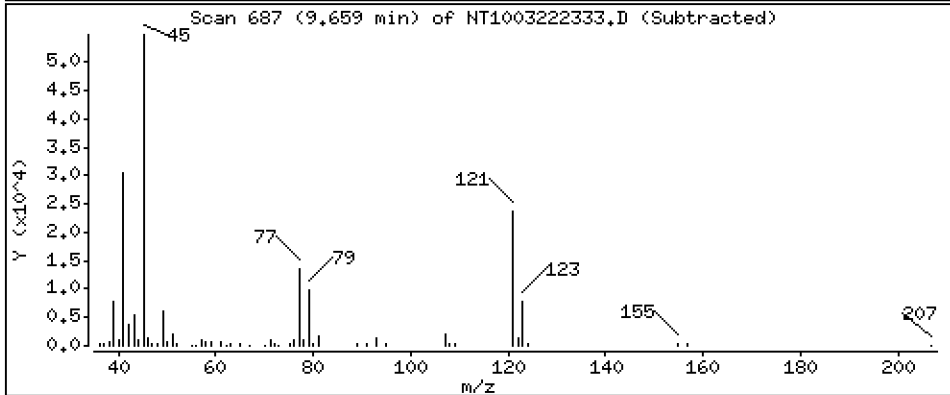
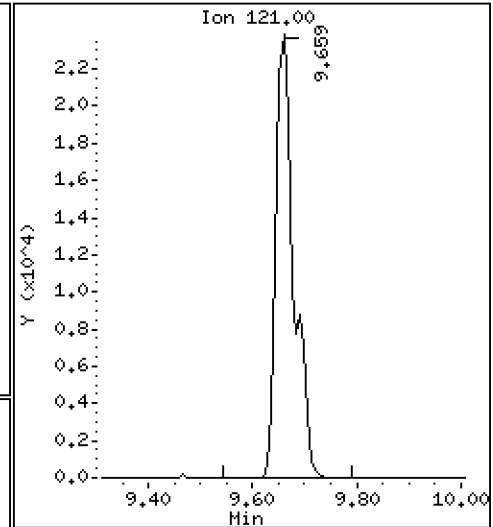
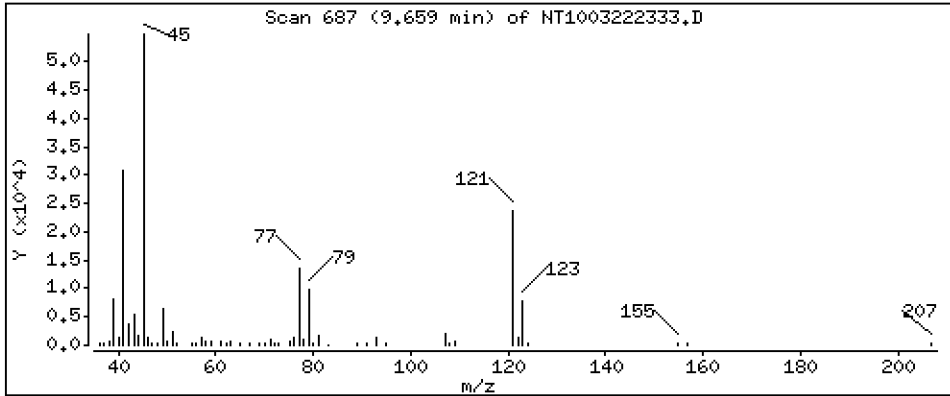
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 4,630 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

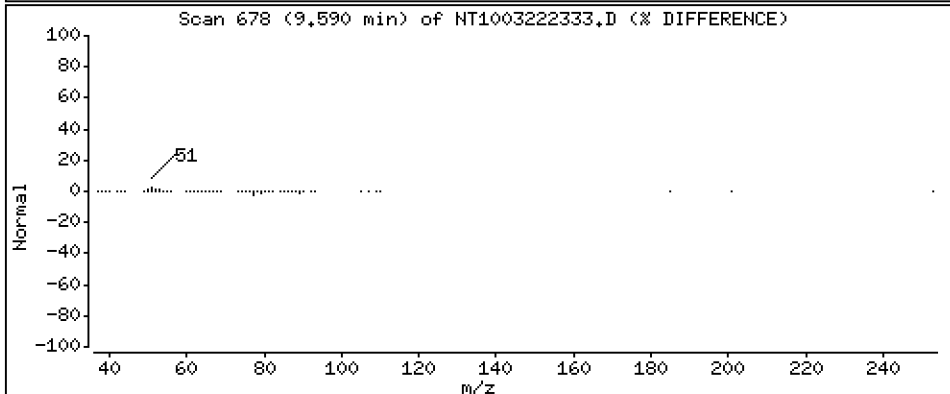
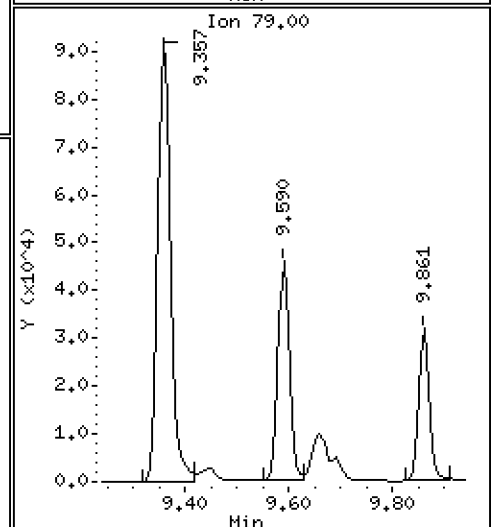
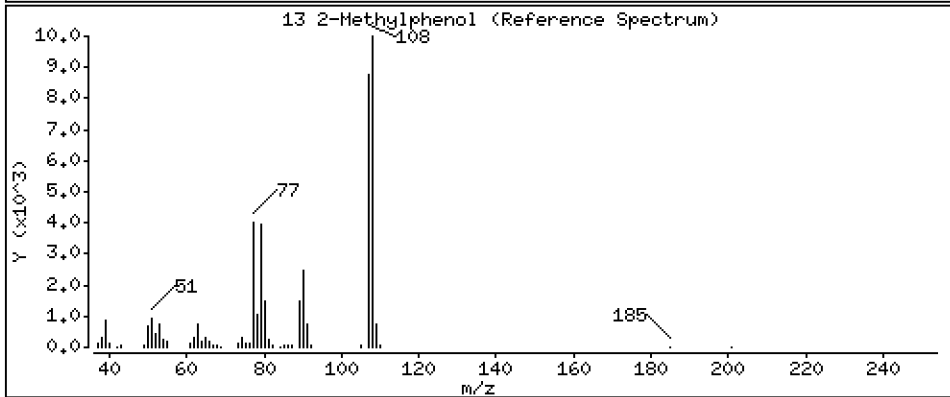
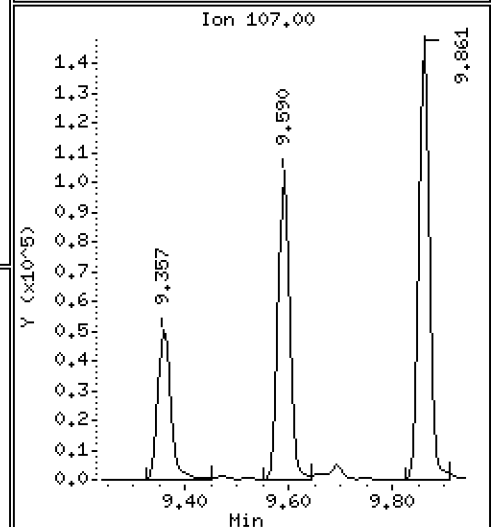
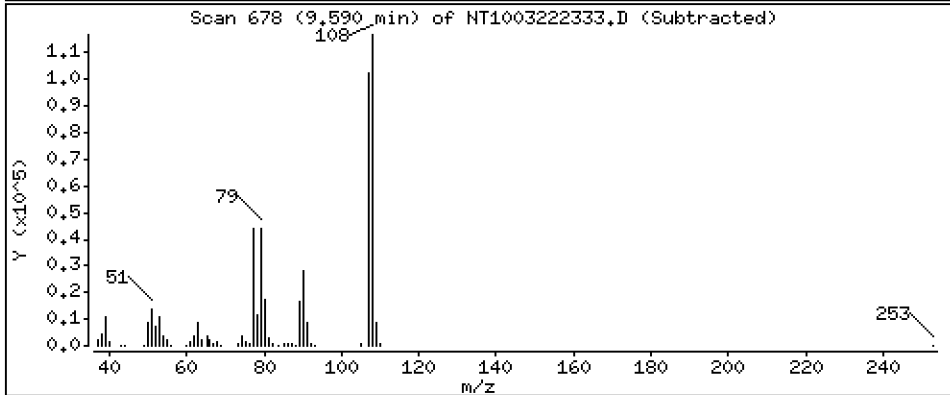
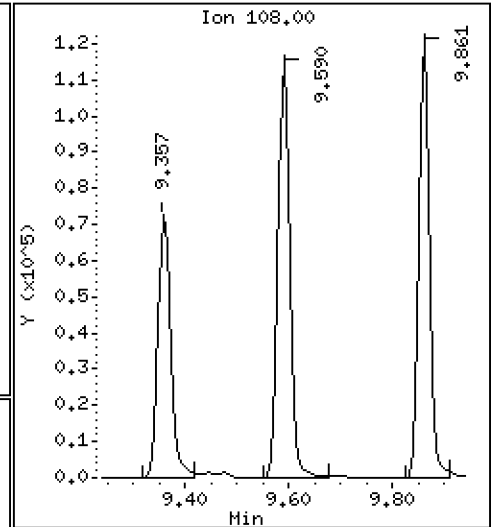
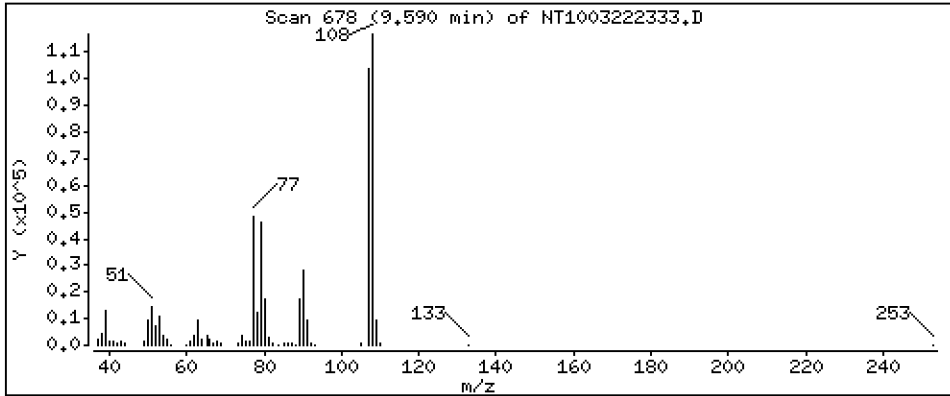
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 4,899 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

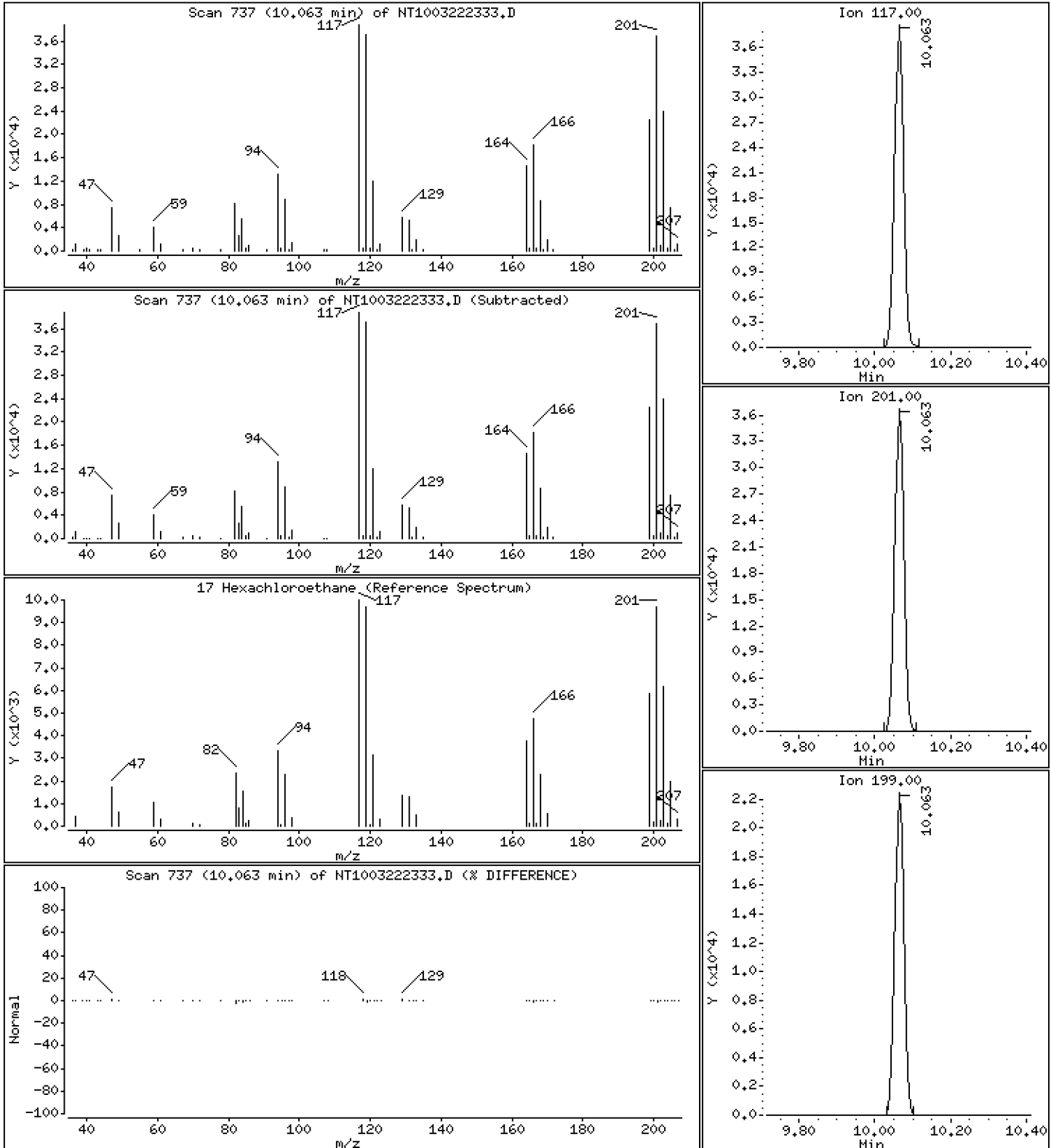
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 3,553 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

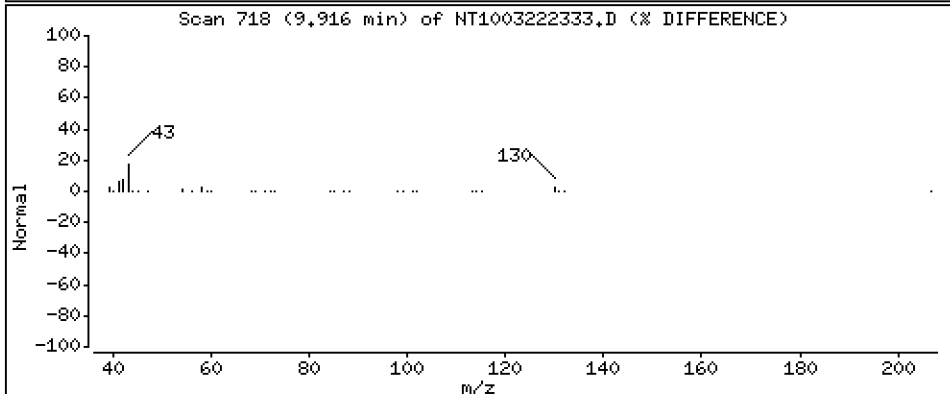
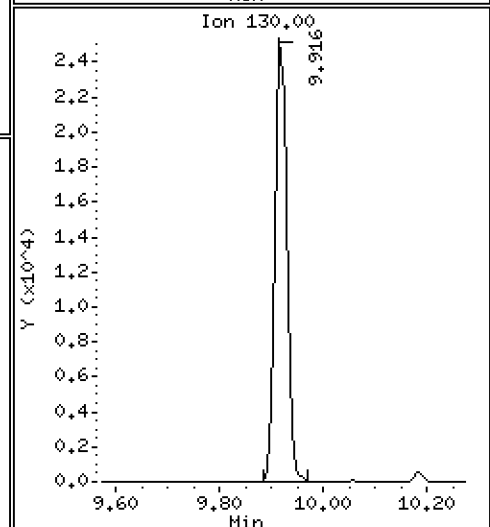
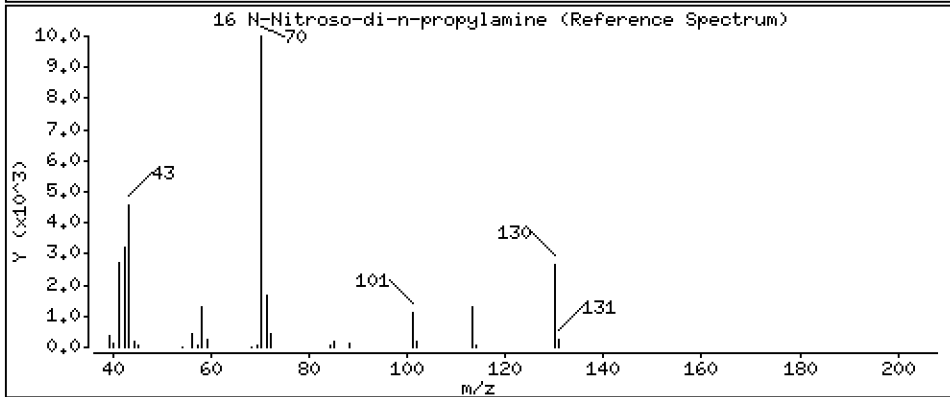
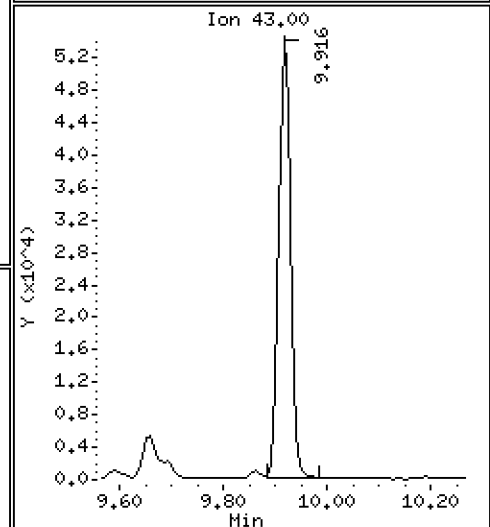
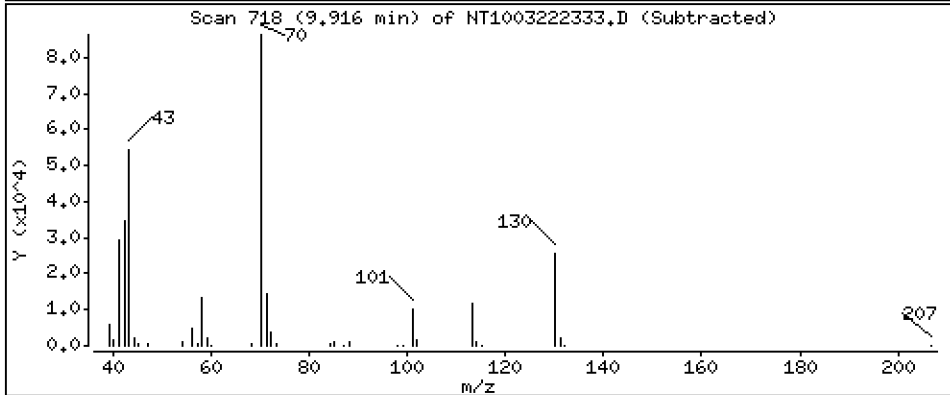
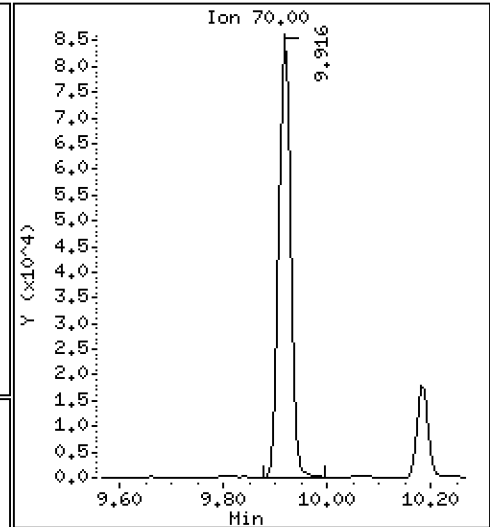
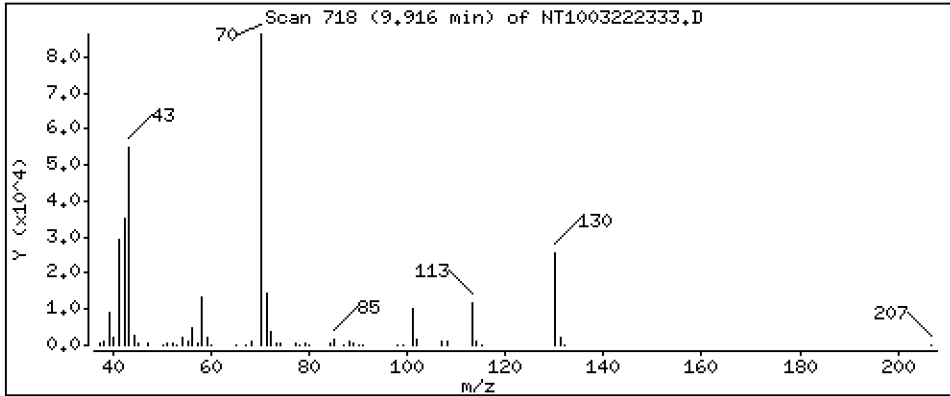
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 4,699 ug/mL





Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

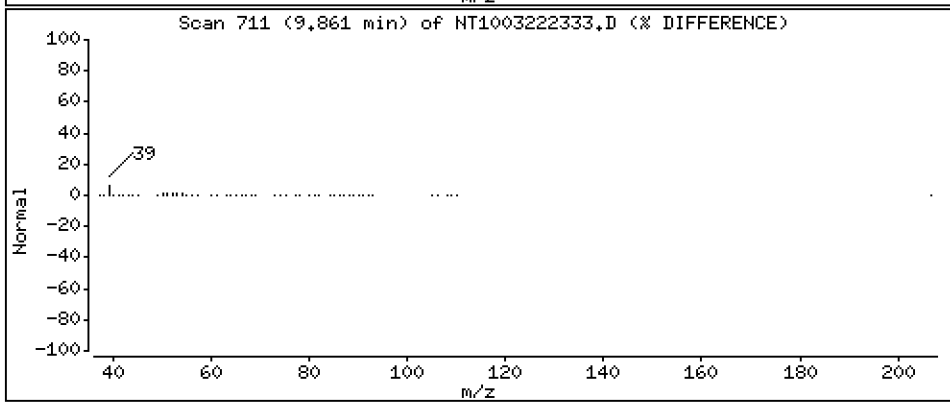
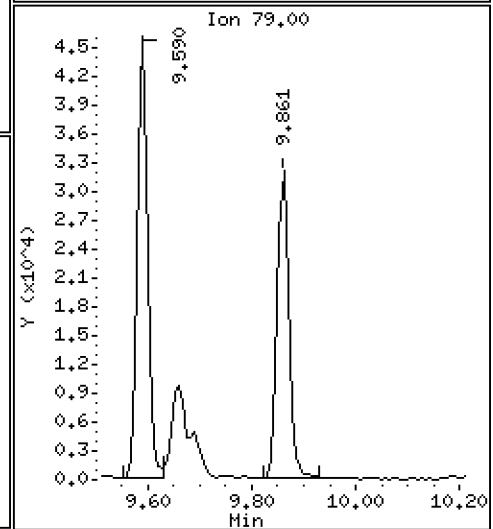
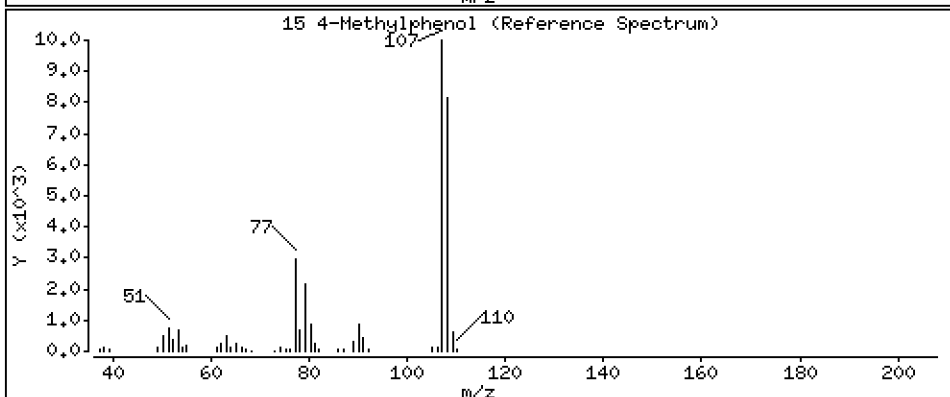
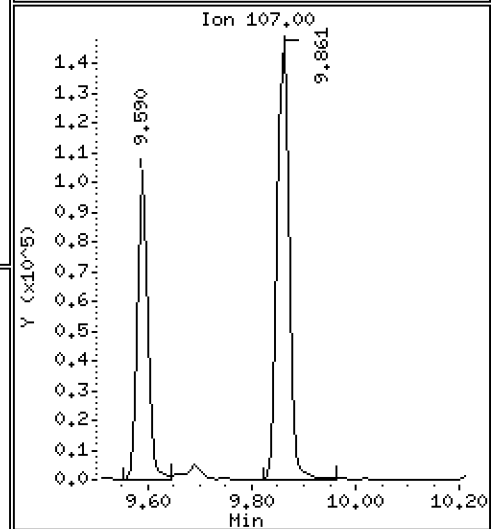
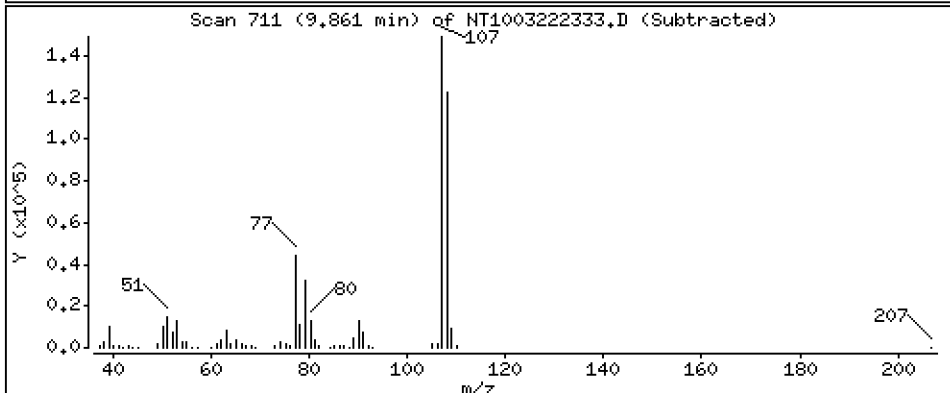
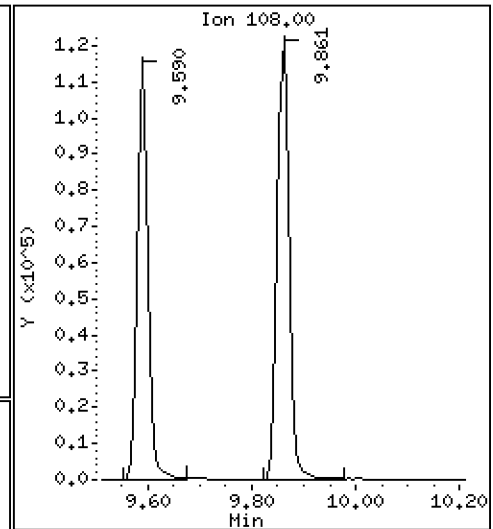
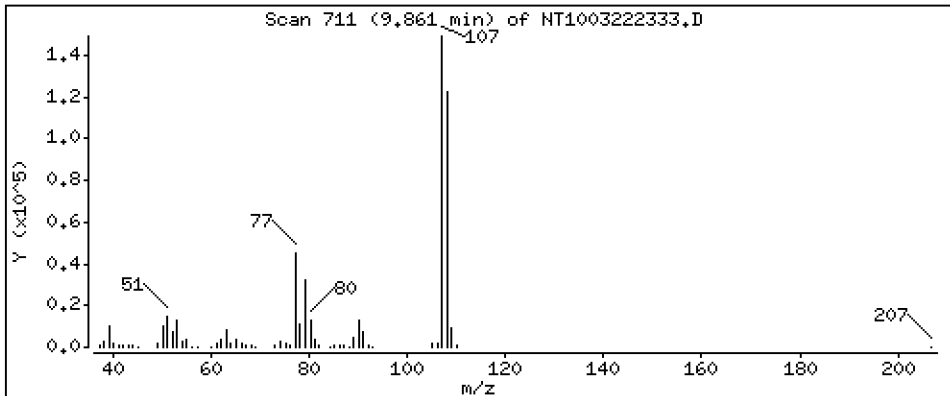
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 5,016 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

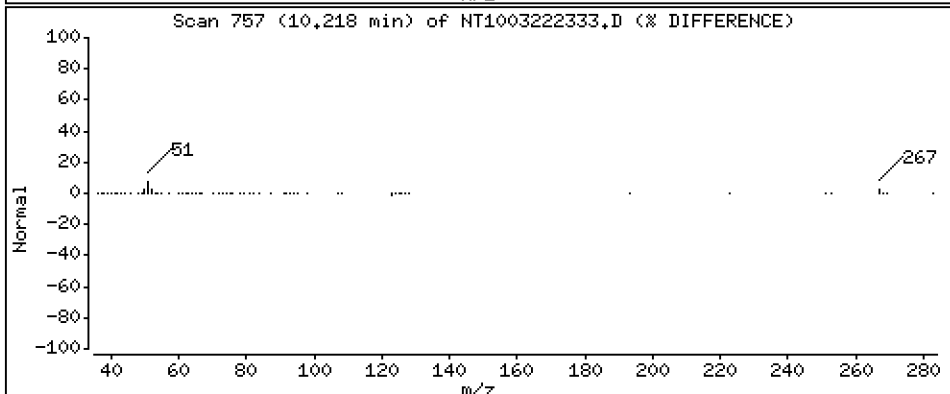
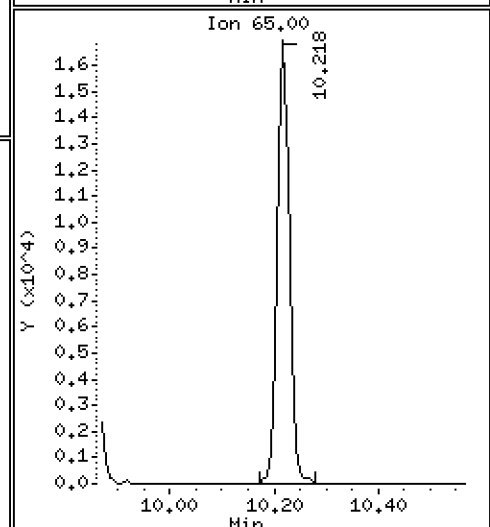
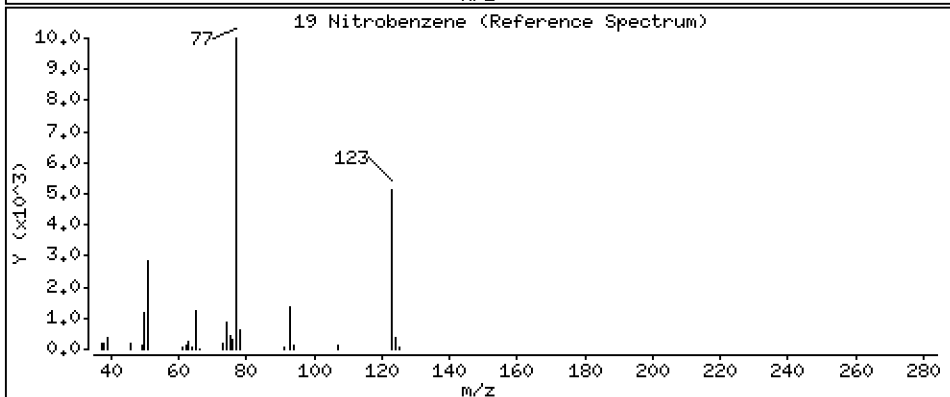
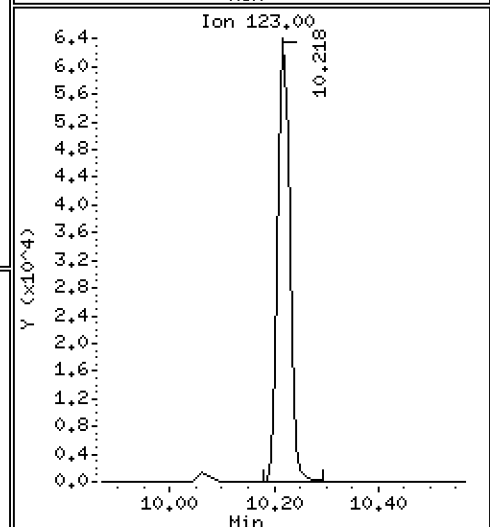
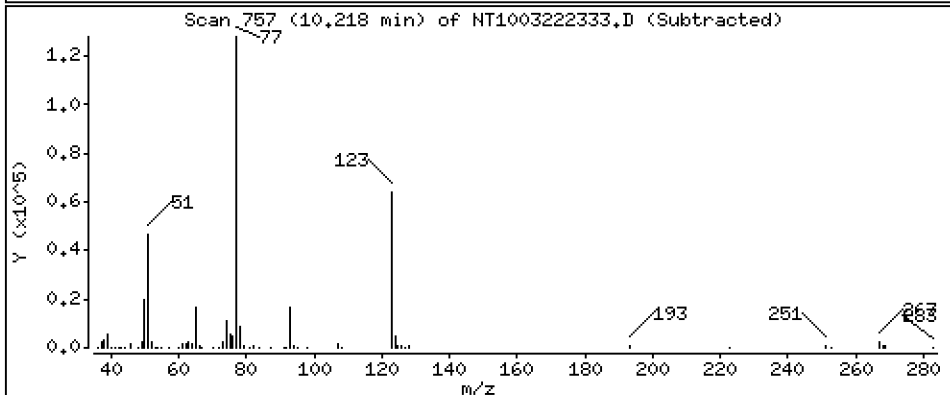
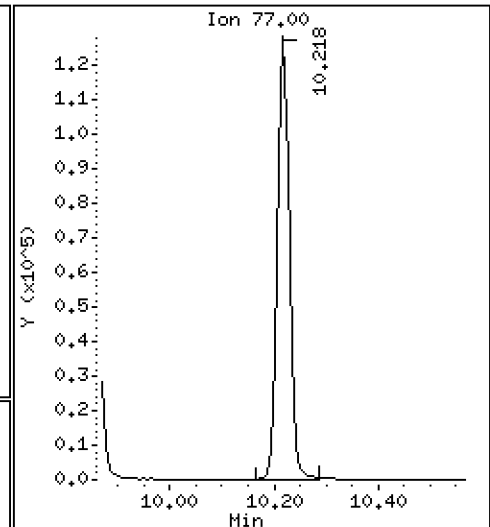
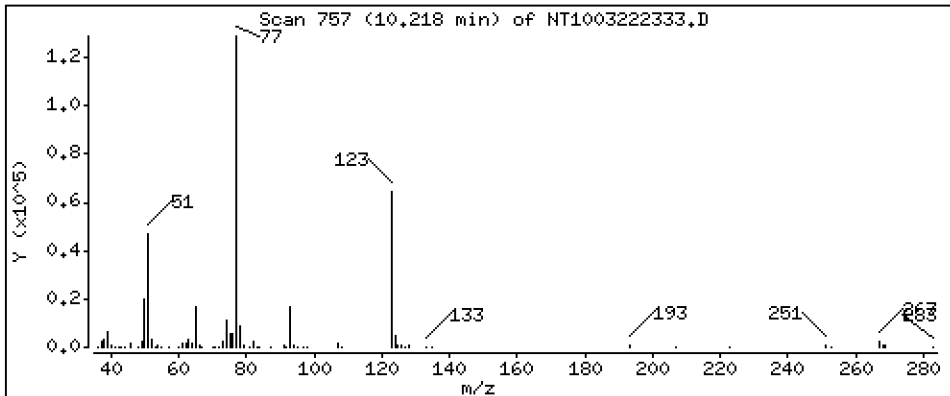
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,603 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

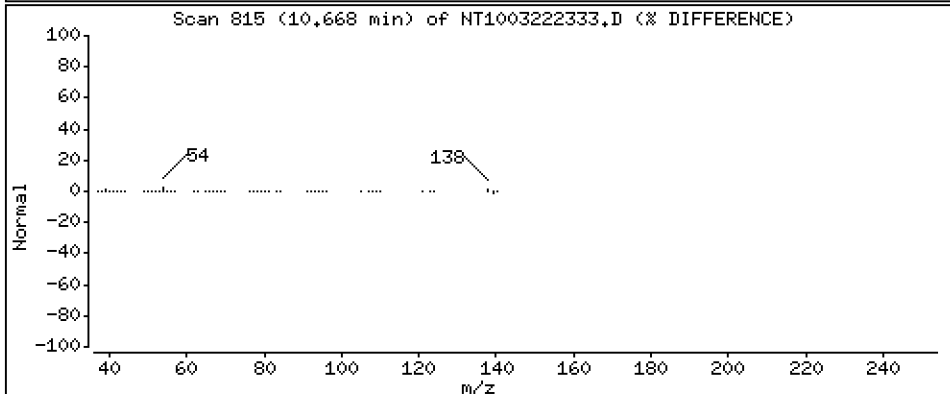
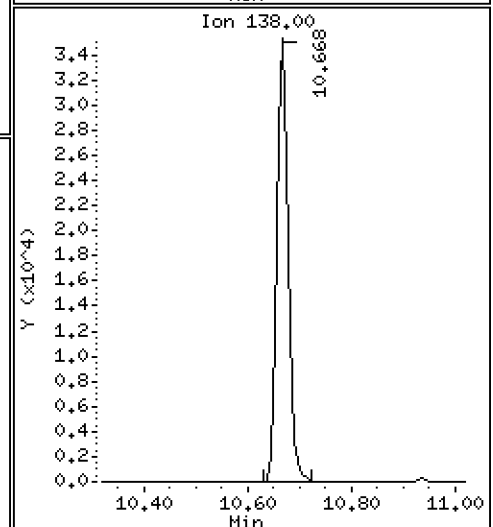
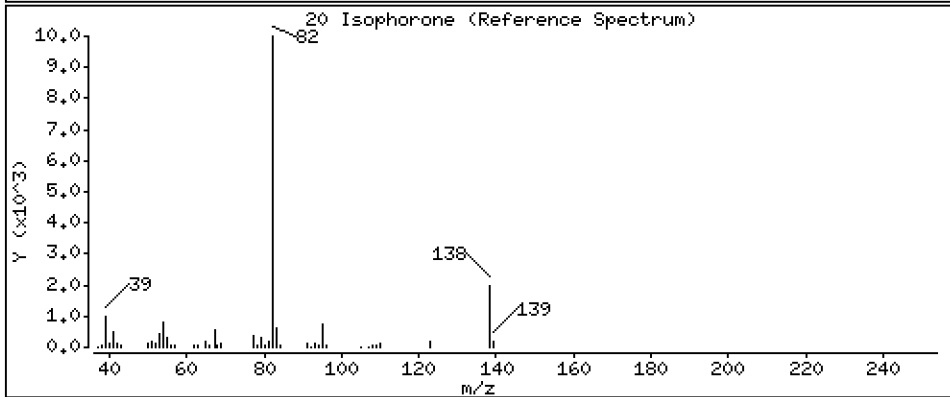
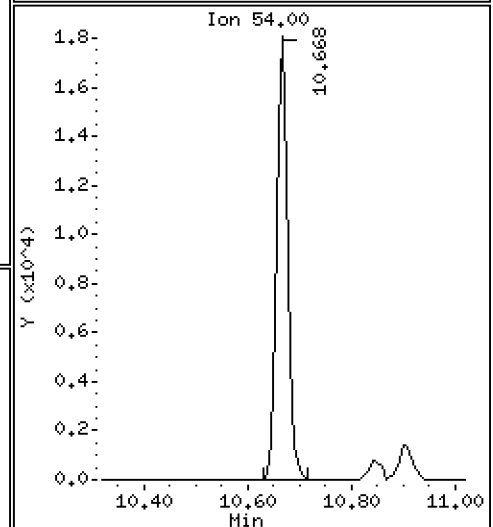
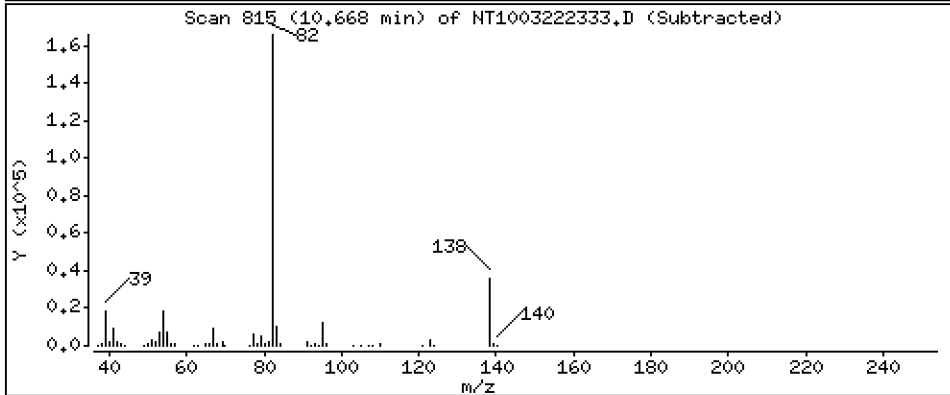
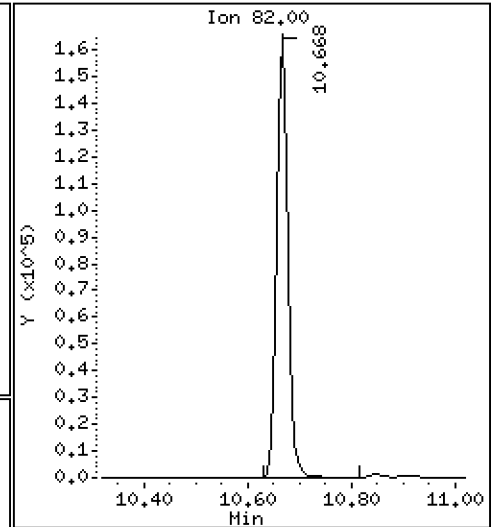
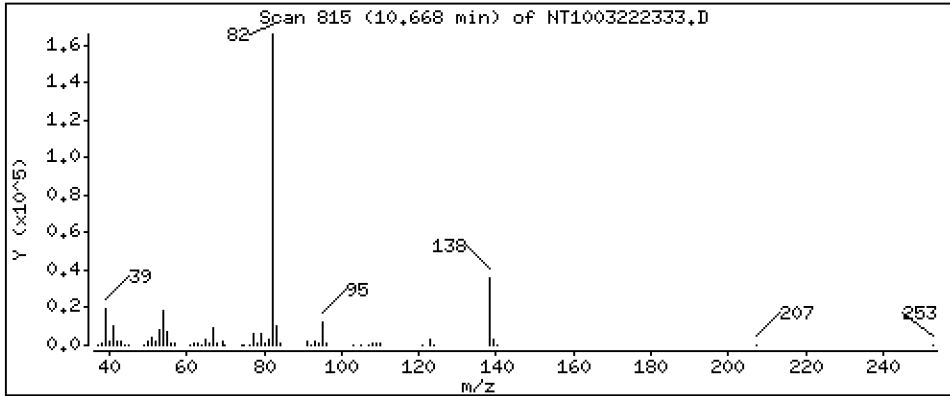
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 5,312 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

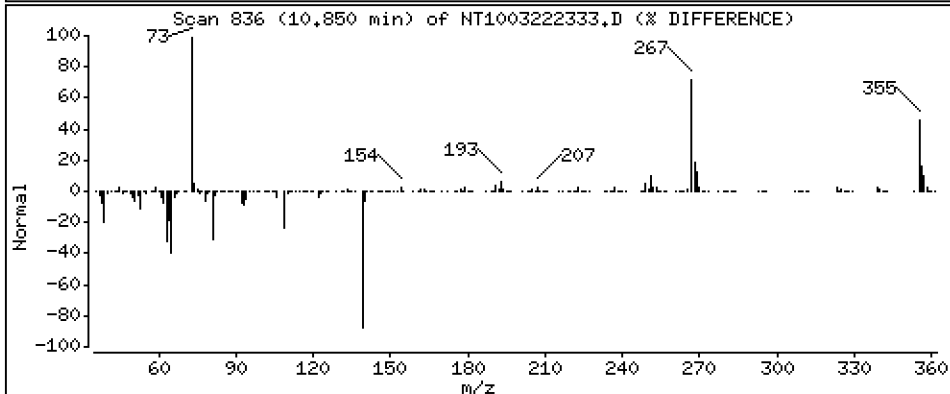
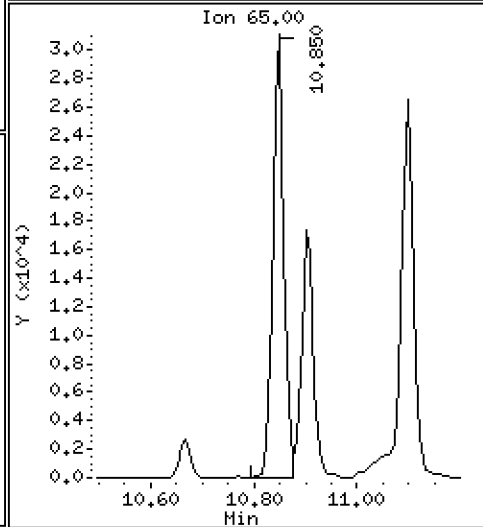
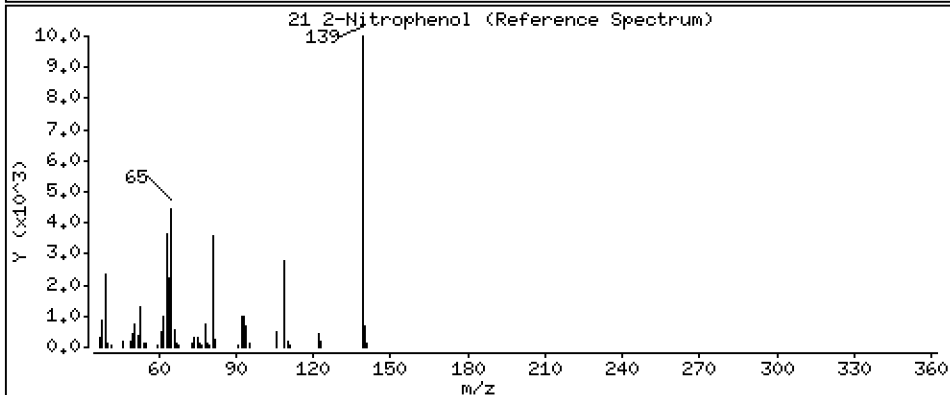
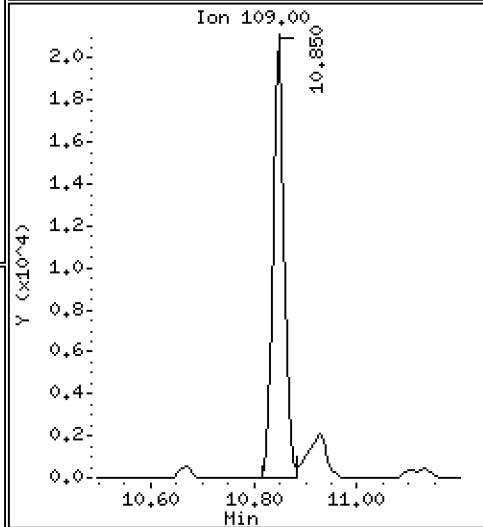
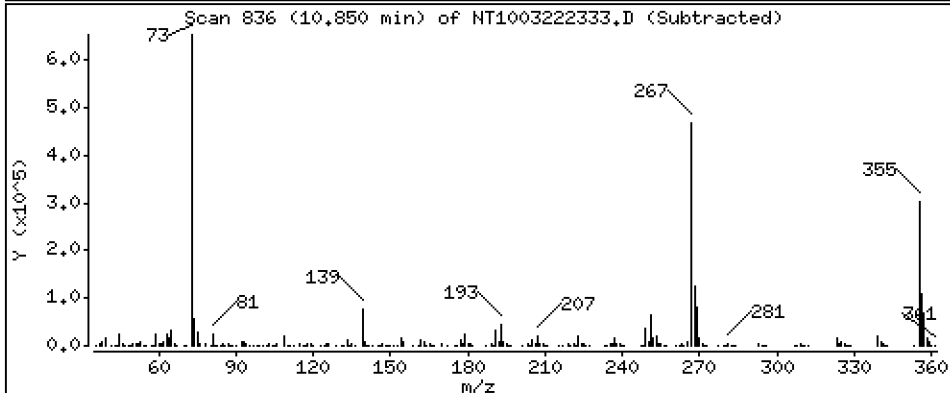
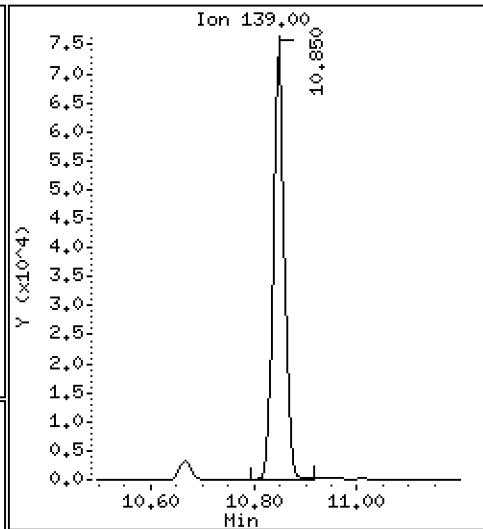
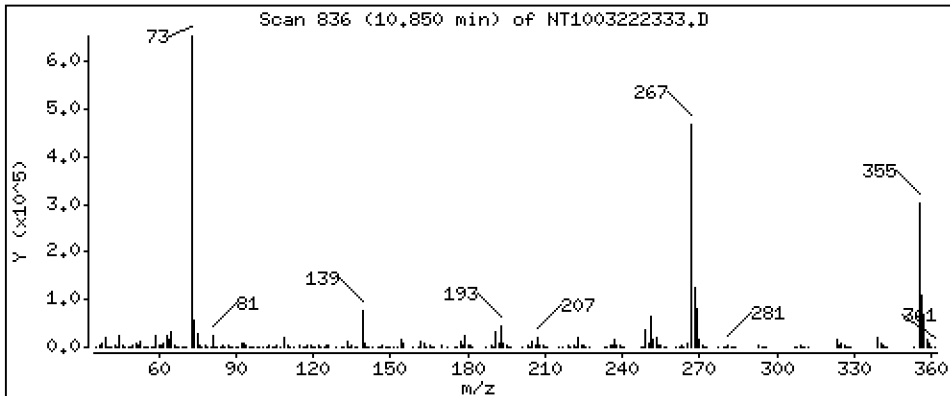
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 6,484 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

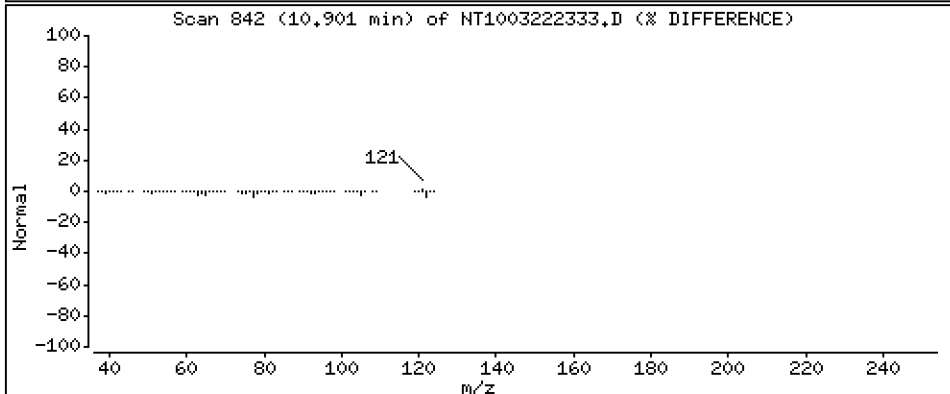
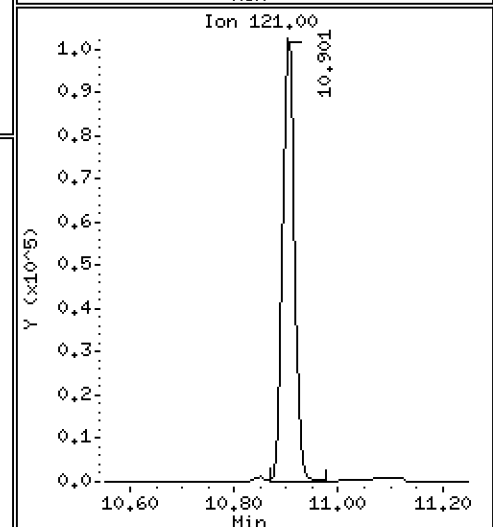
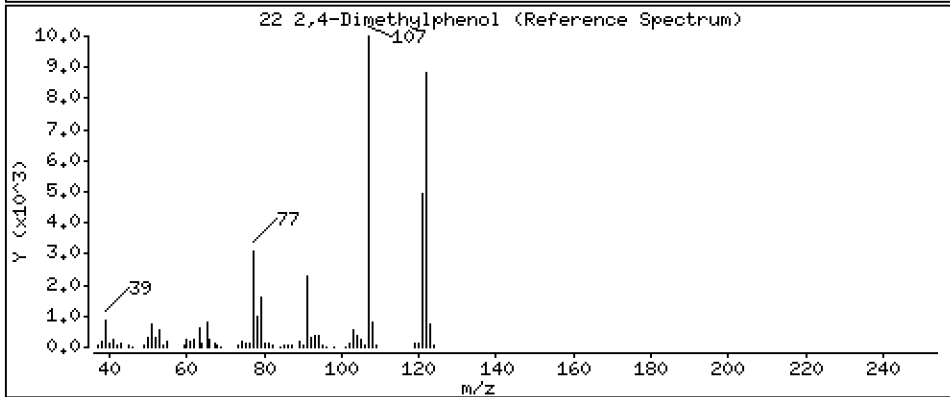
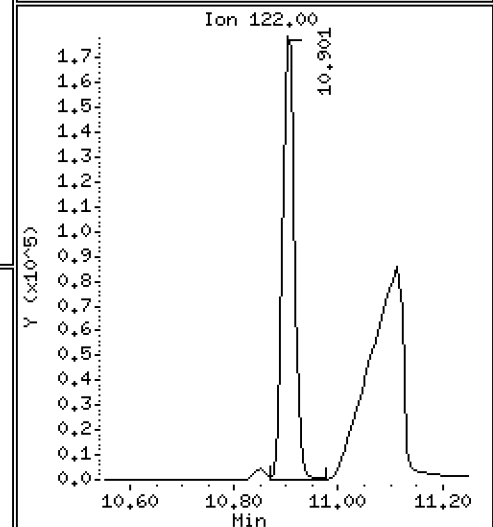
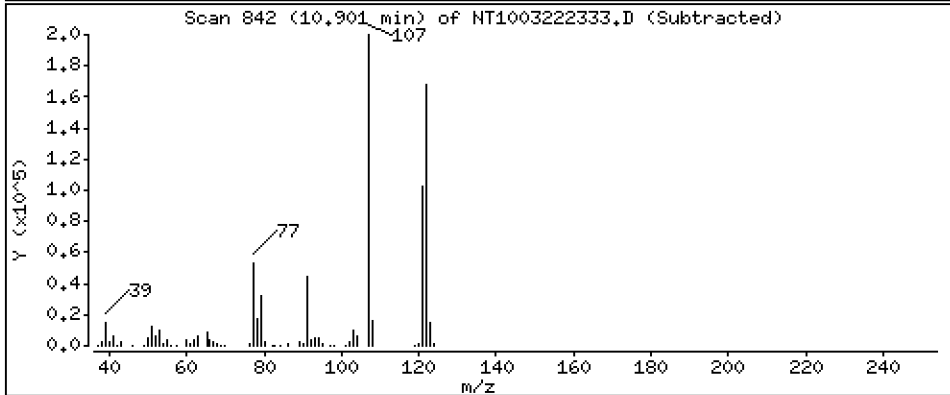
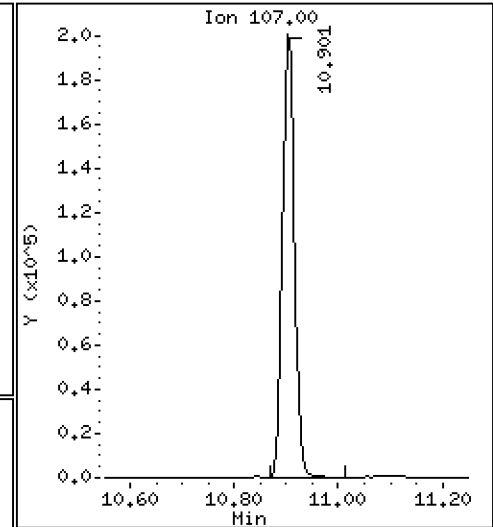
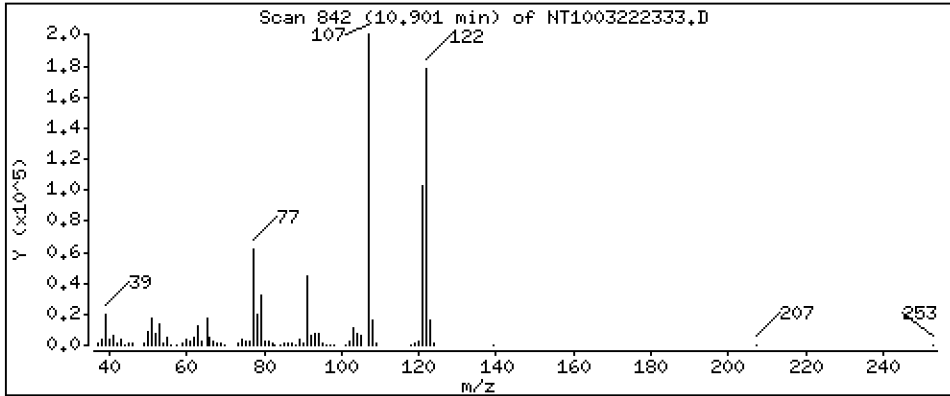
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 8,283 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

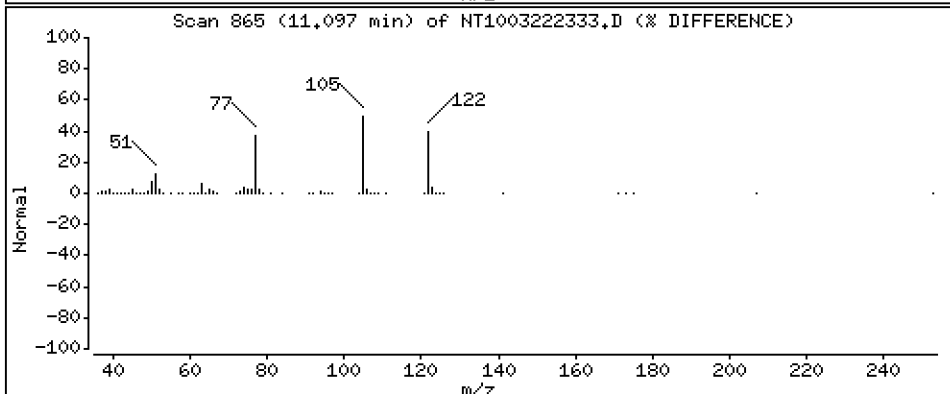
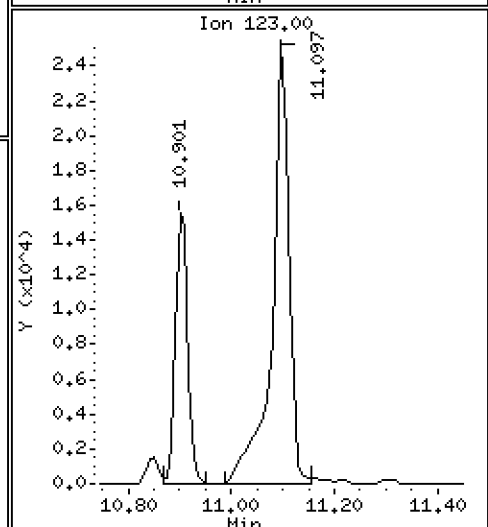
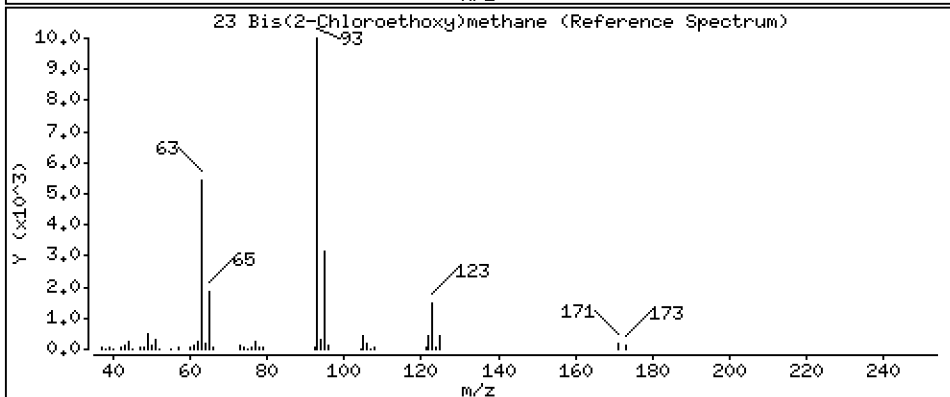
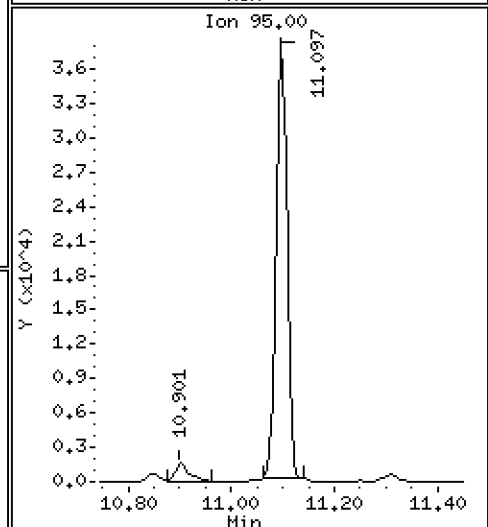
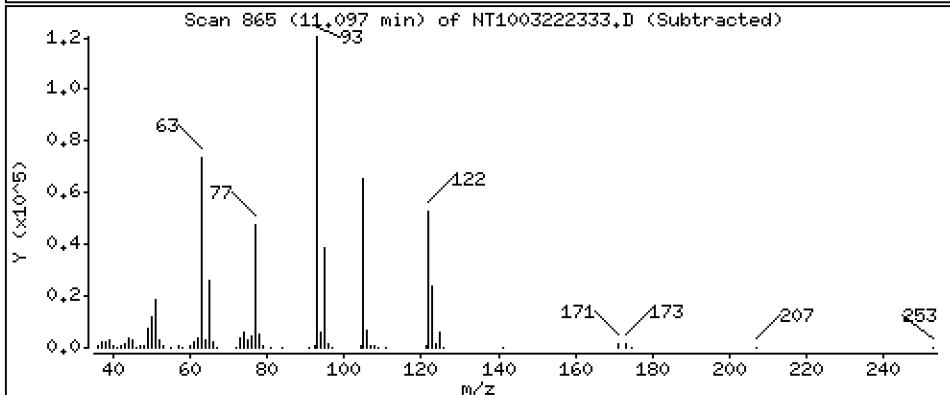
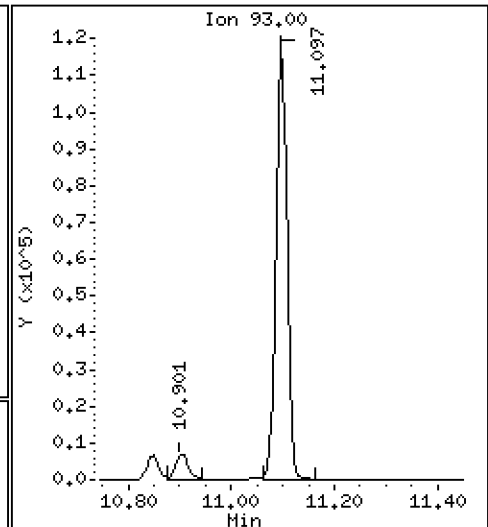
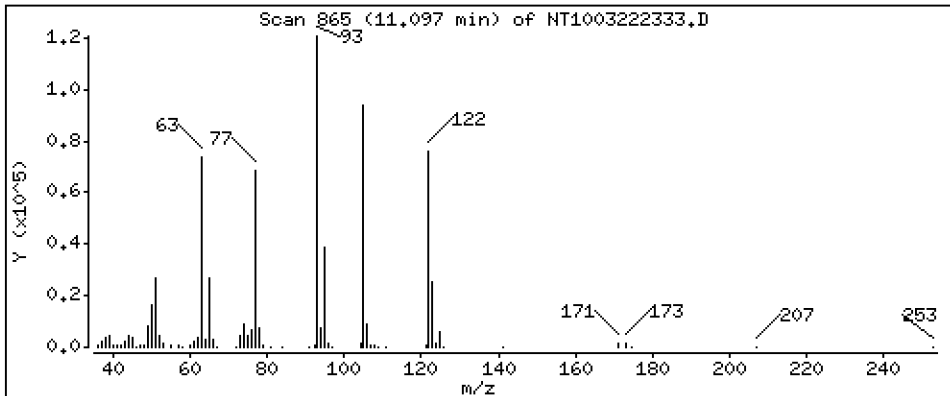
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 4,781 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

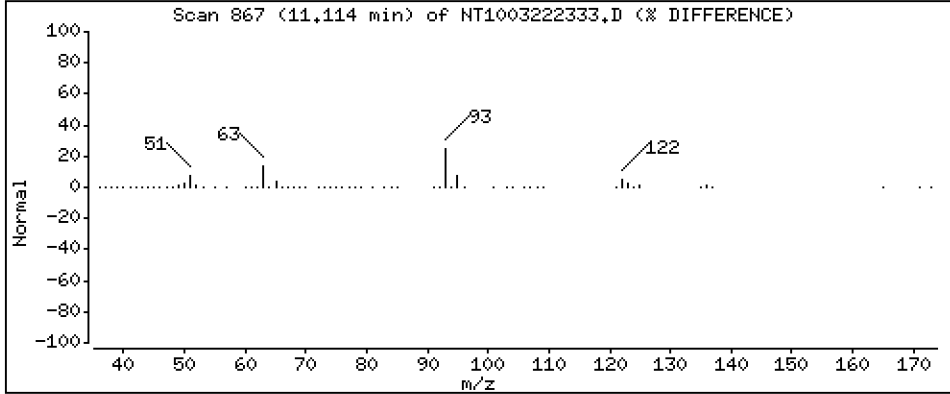
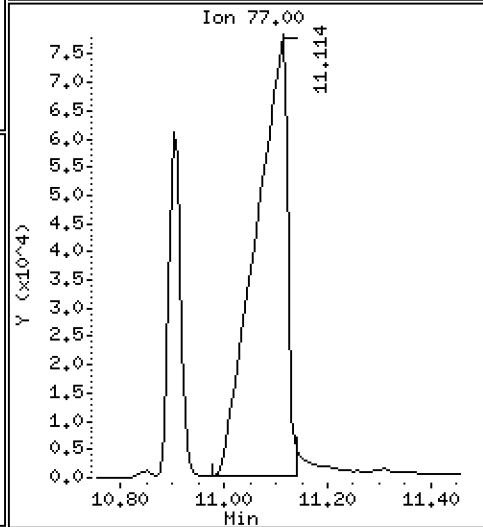
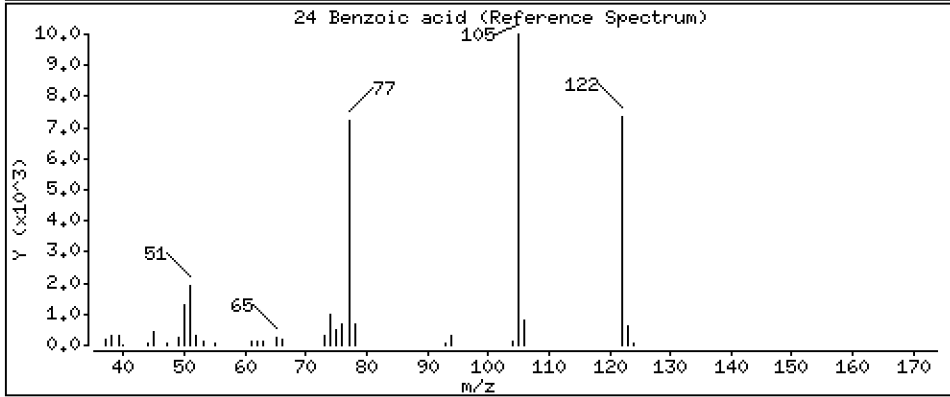
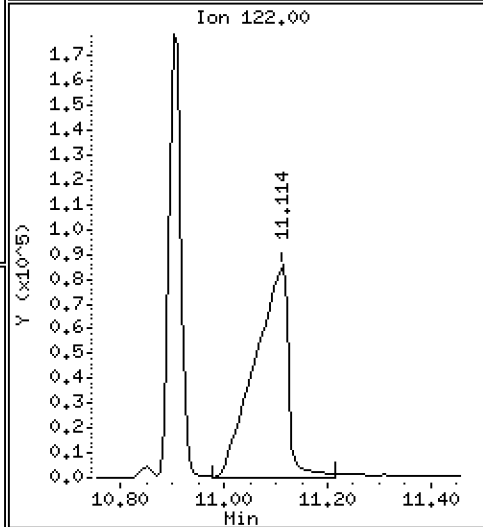
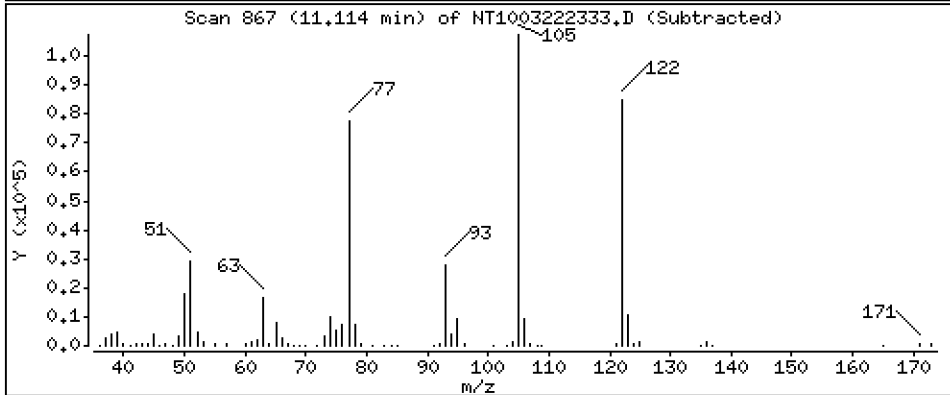
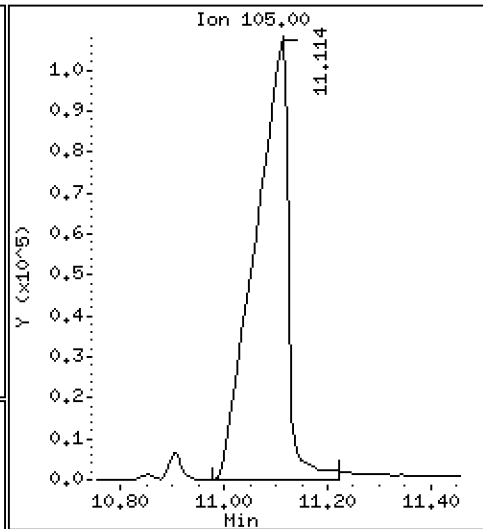
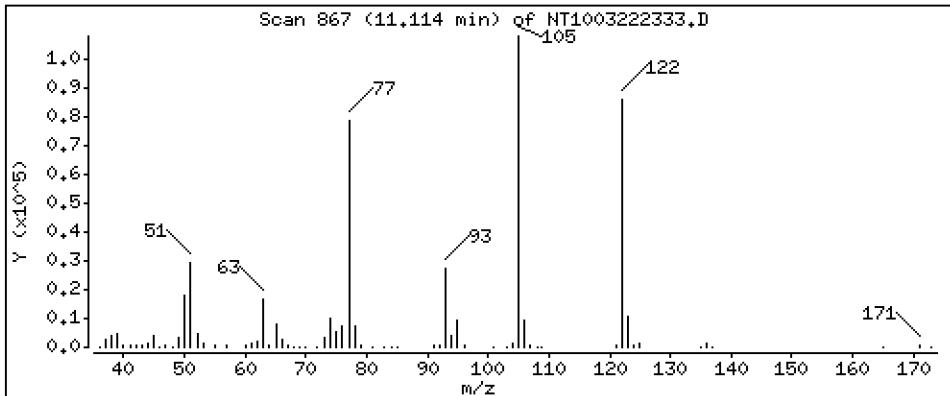
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 21,56 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

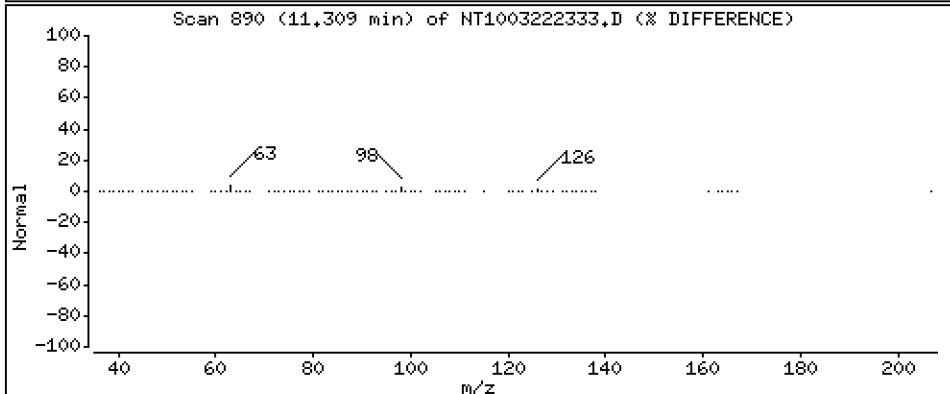
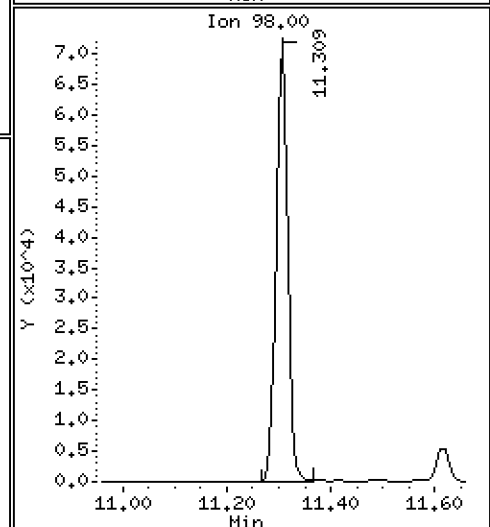
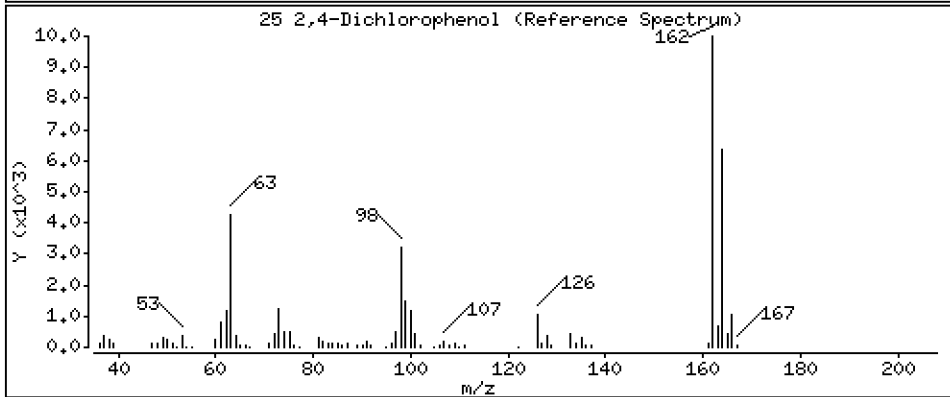
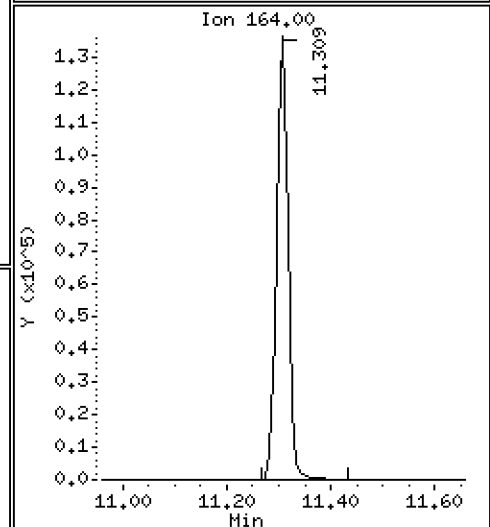
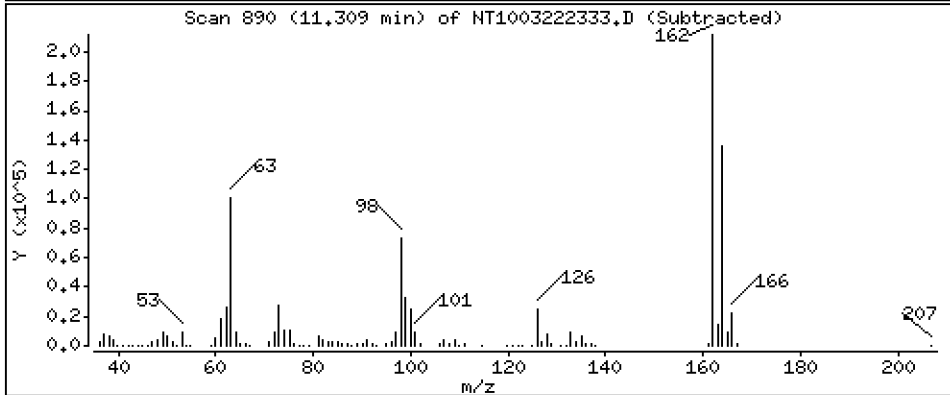
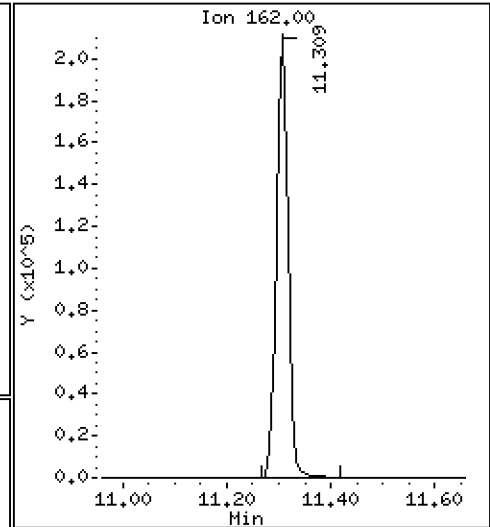
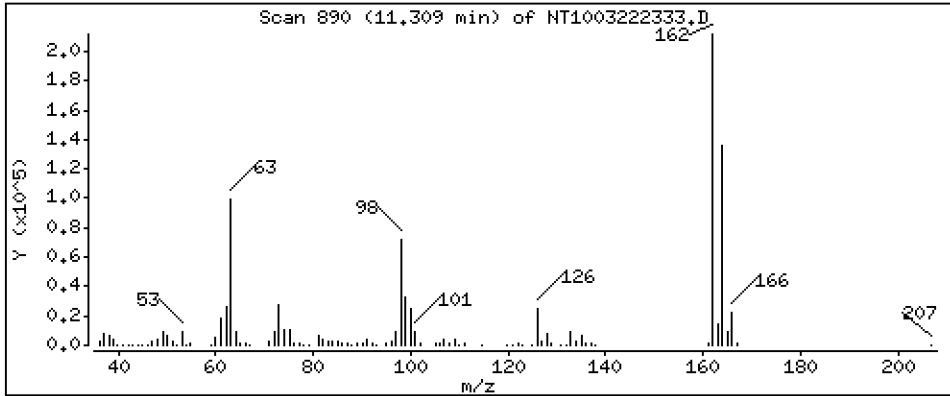
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 11,73 ug/mL





Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

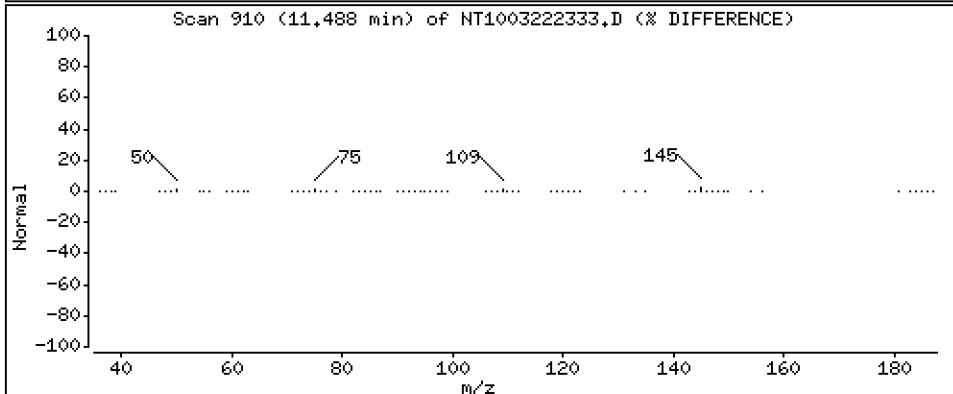
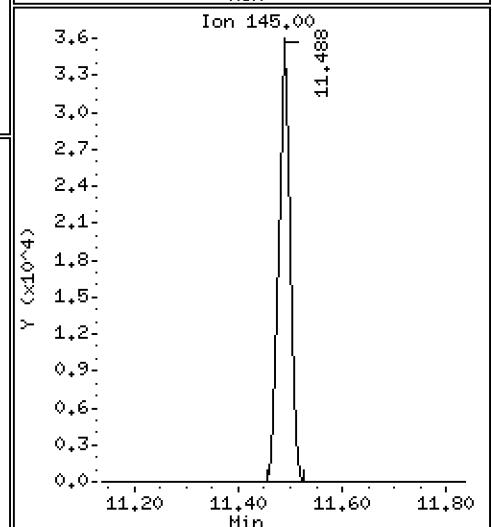
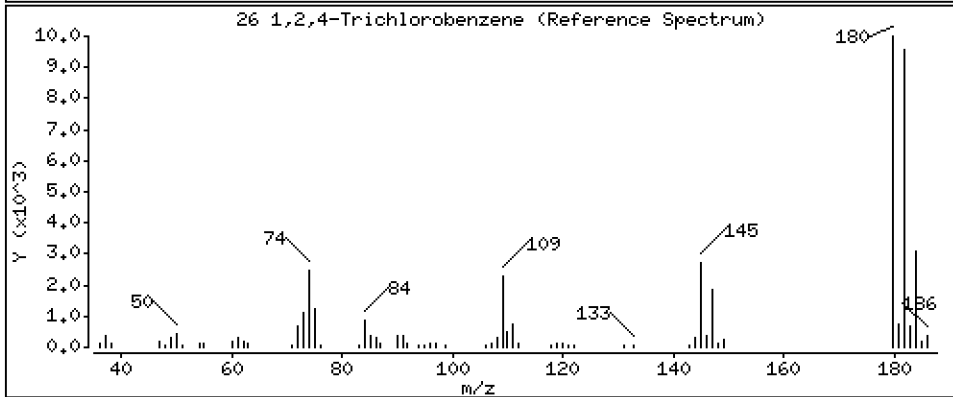
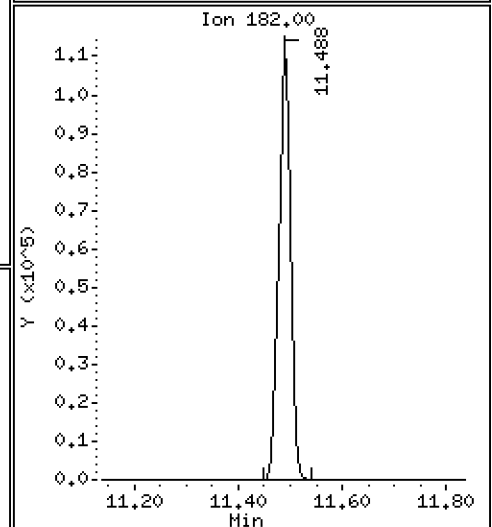
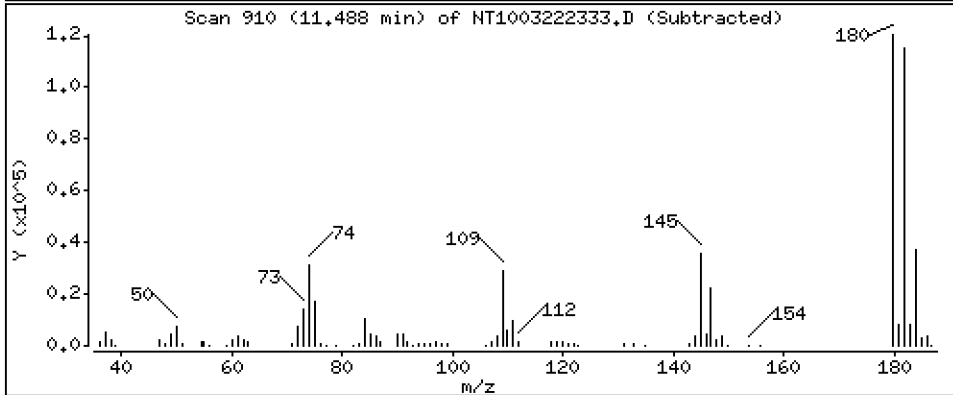
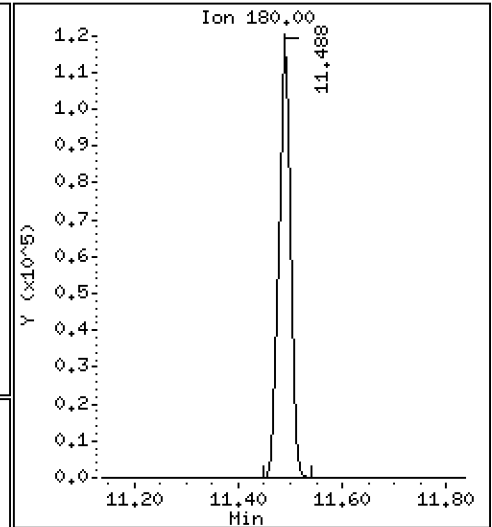
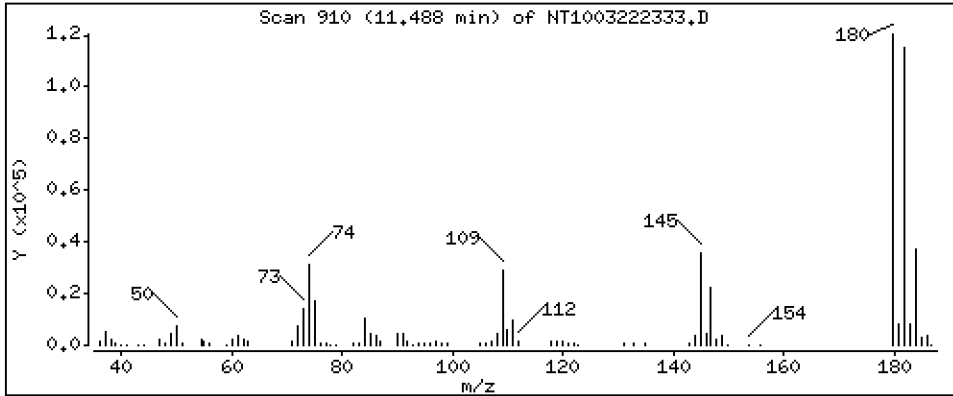
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 5,039 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

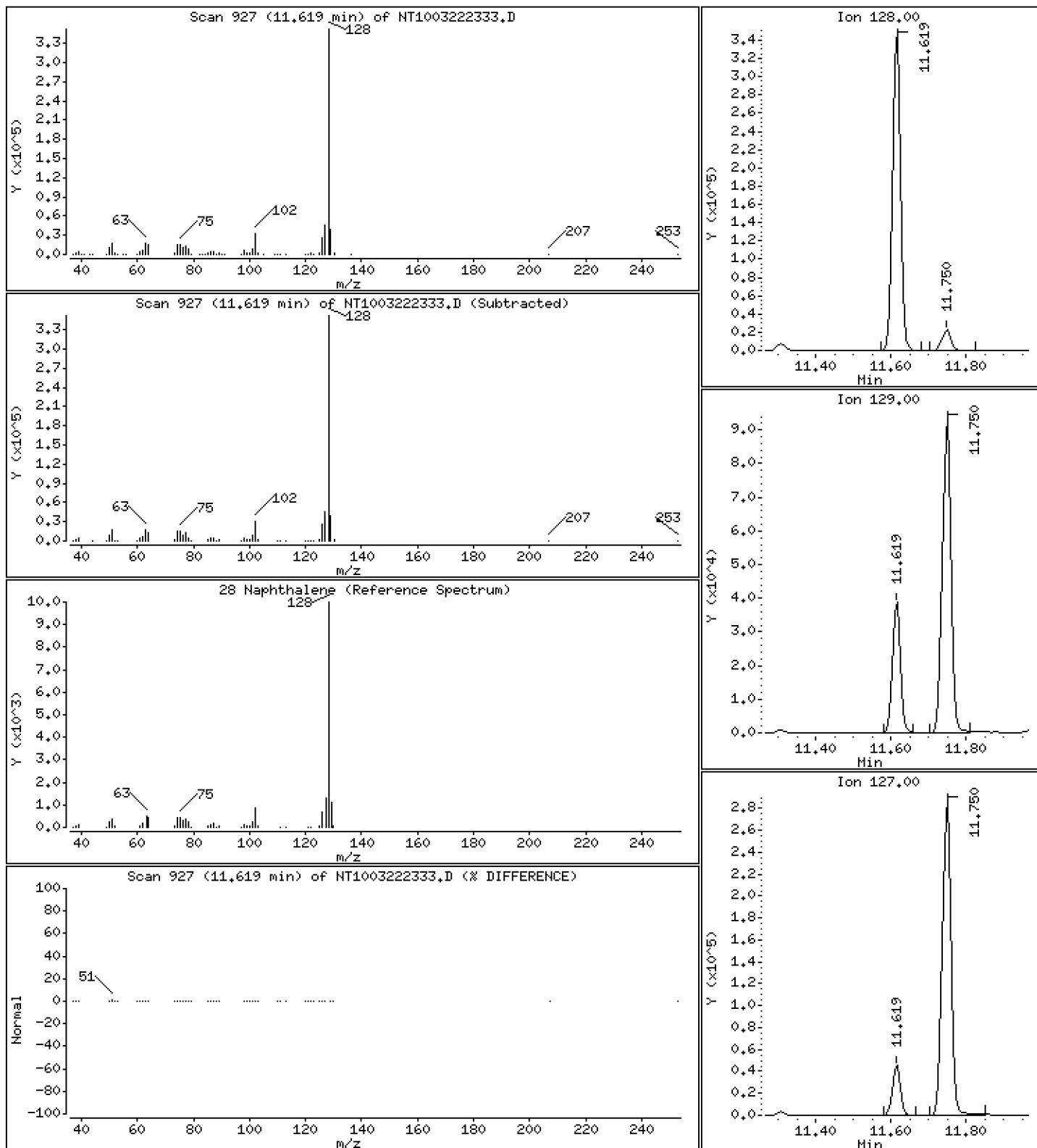
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,786 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

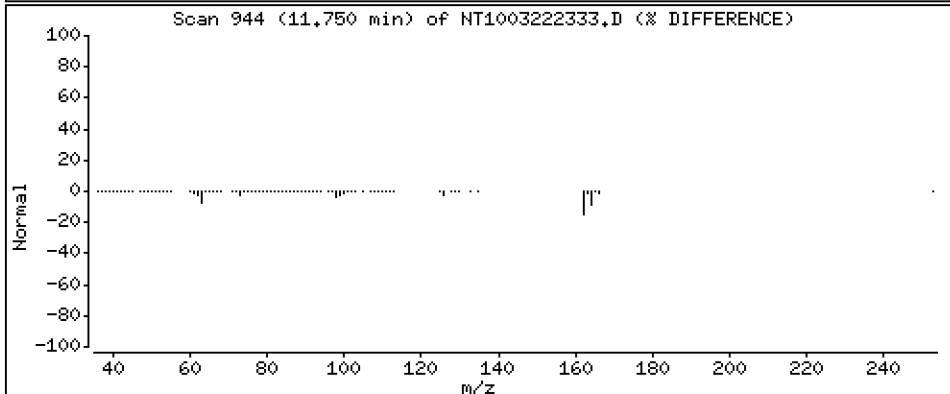
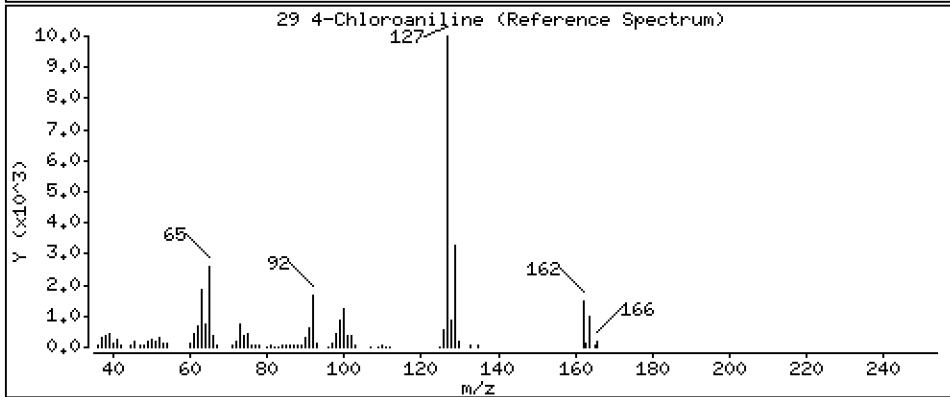
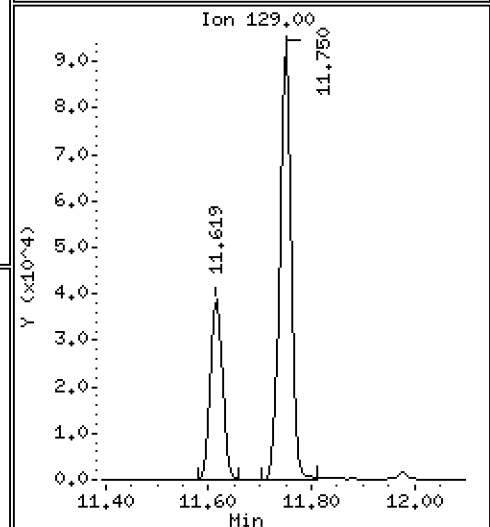
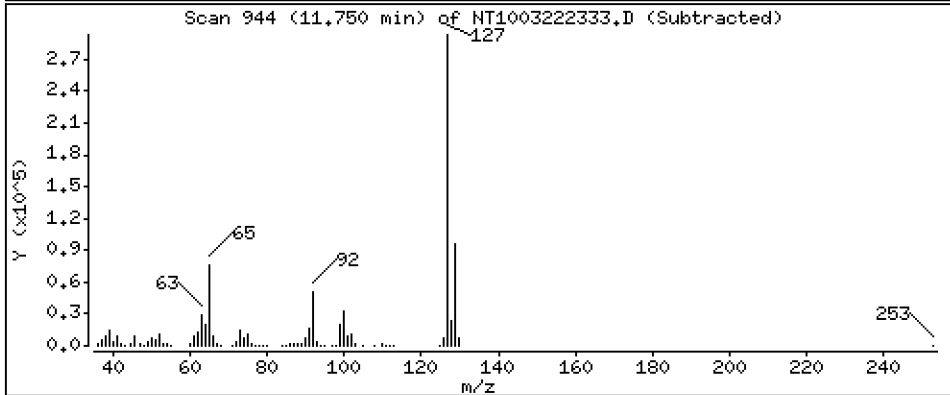
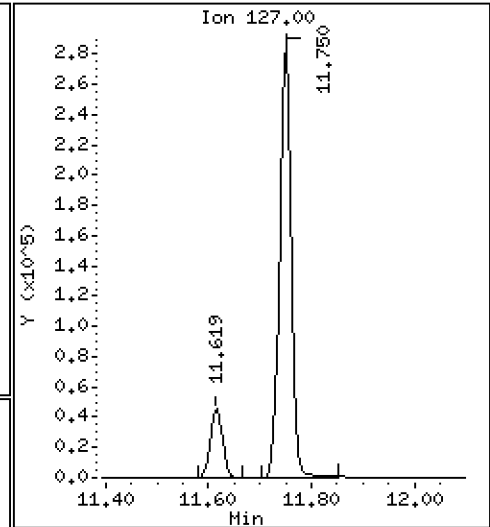
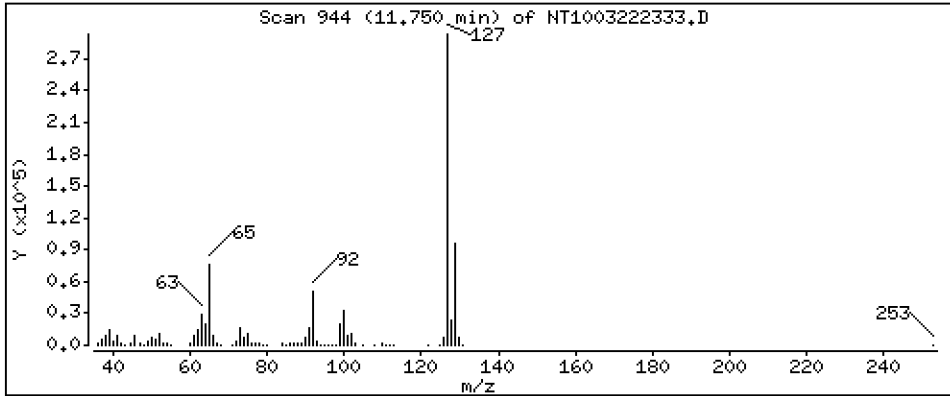
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 10,27 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

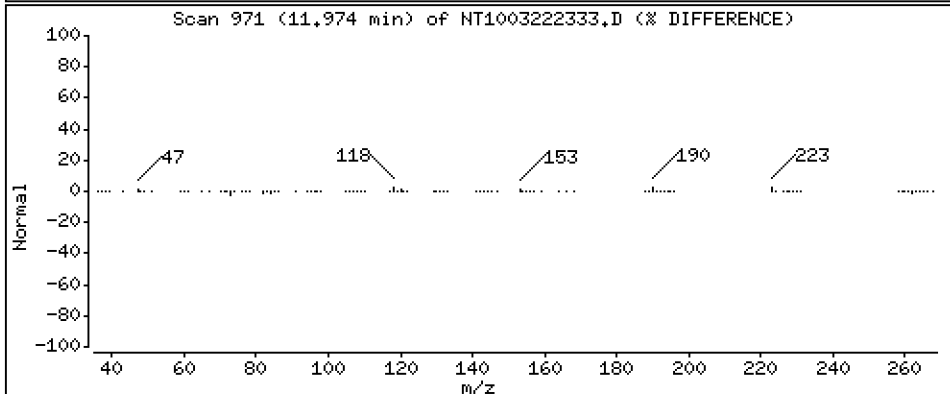
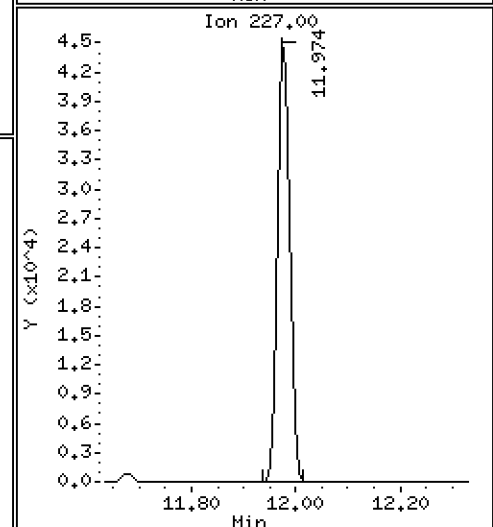
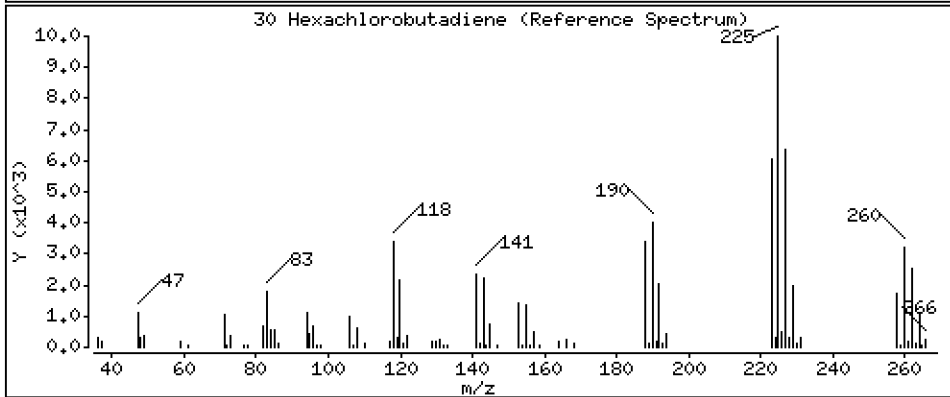
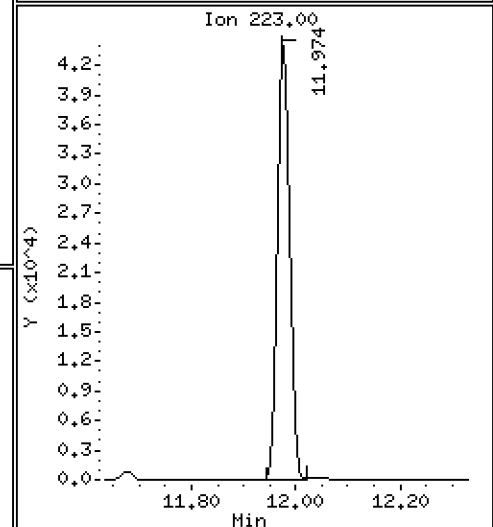
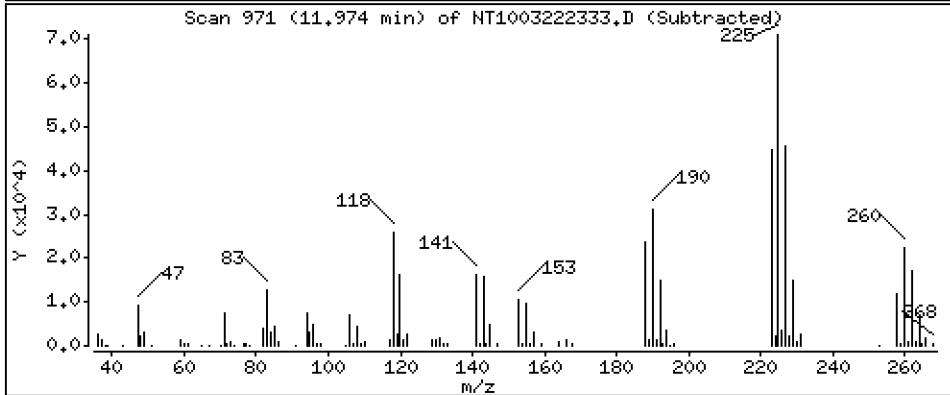
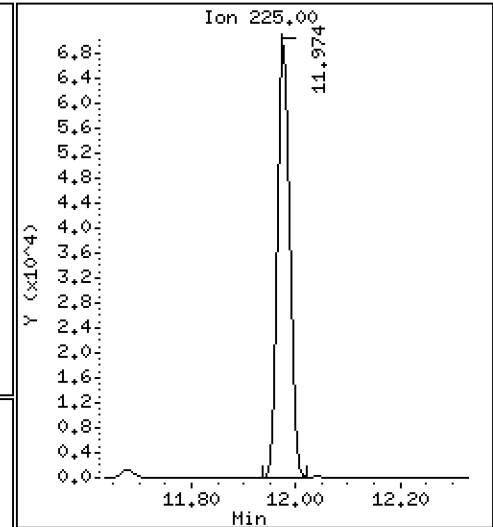
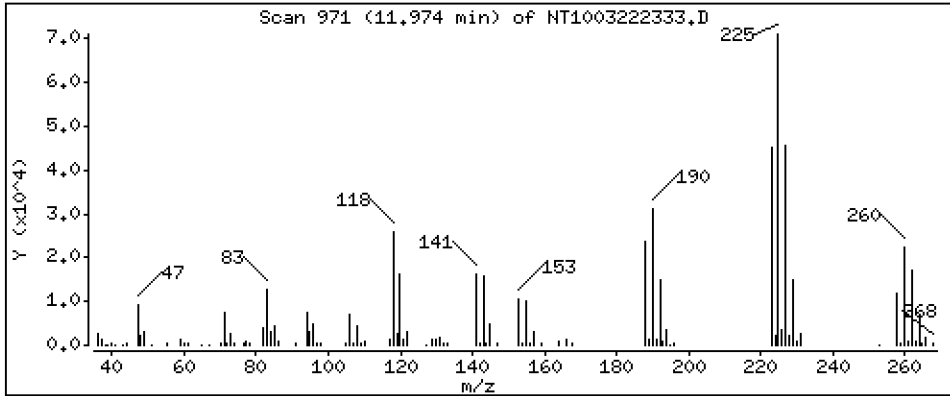
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 5,210 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

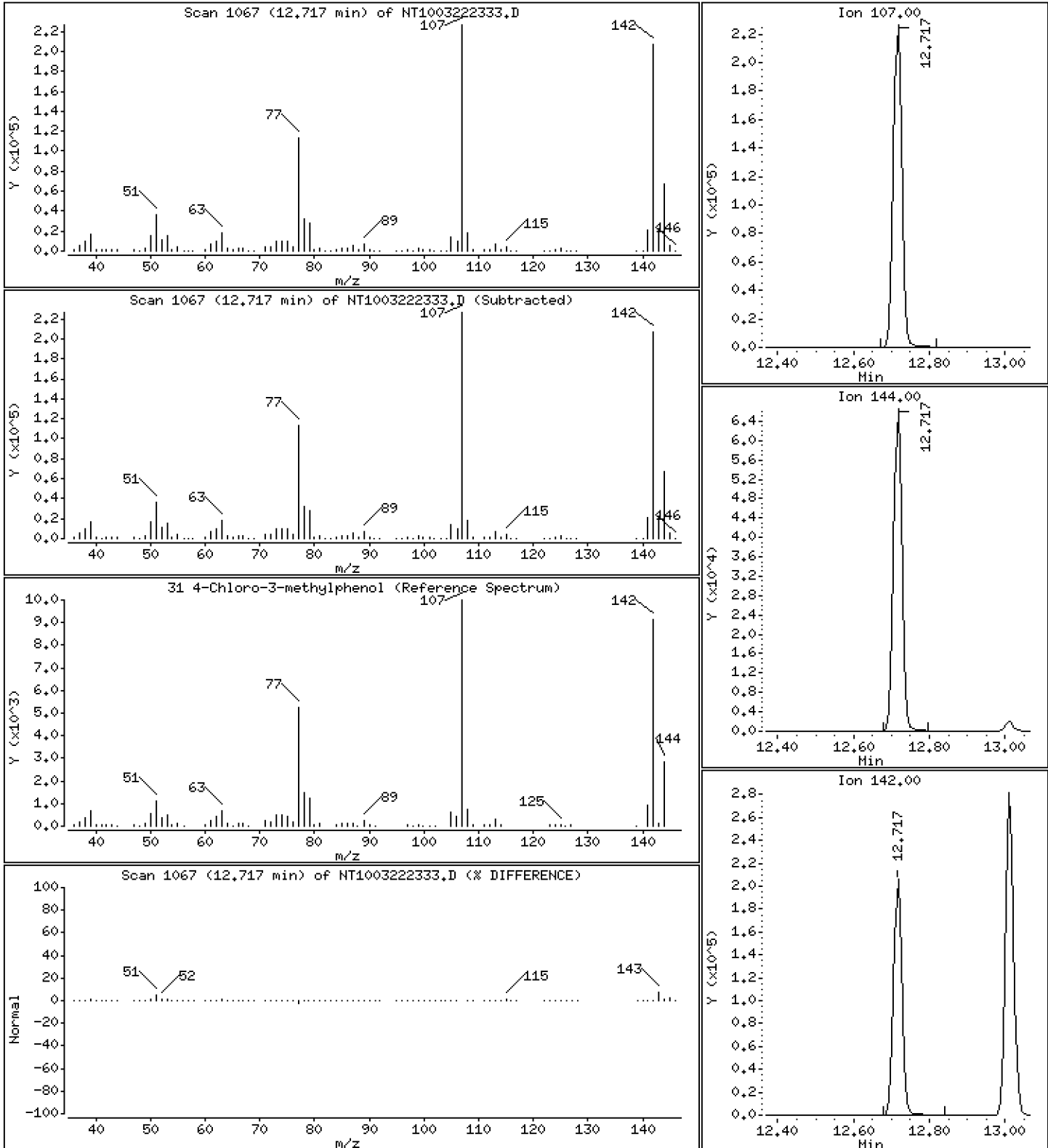
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 10,15 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

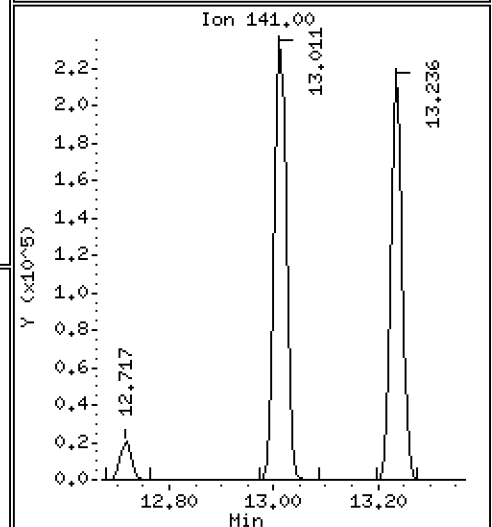
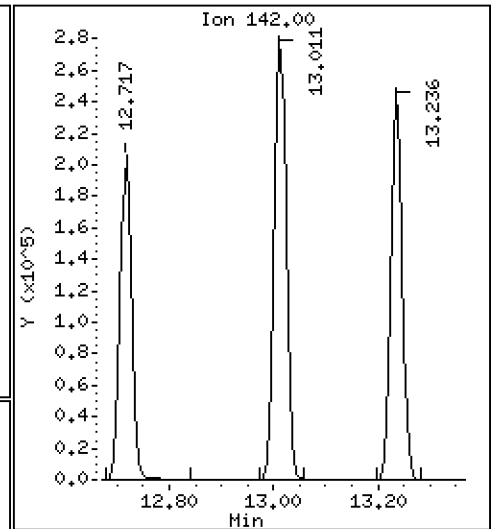
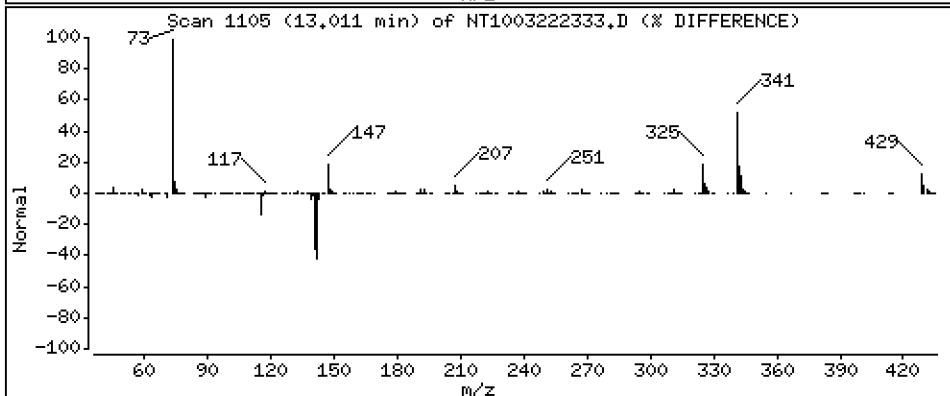
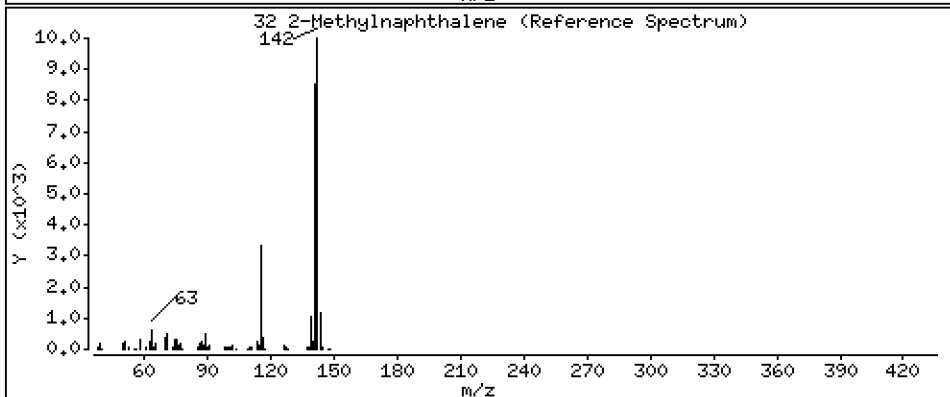
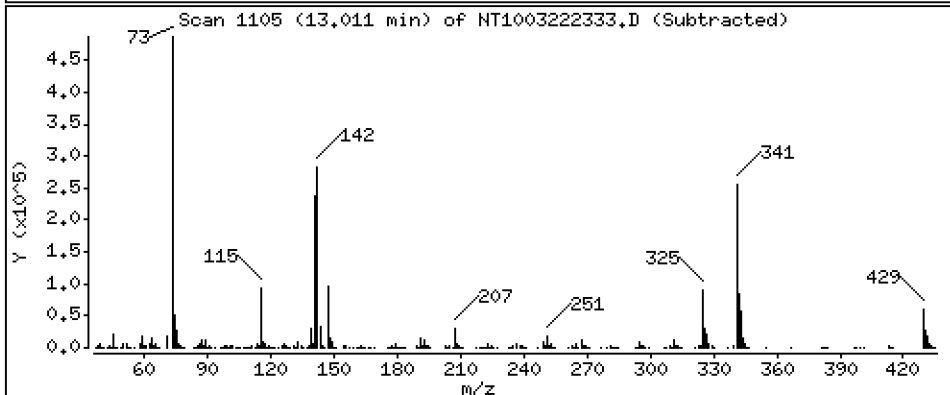
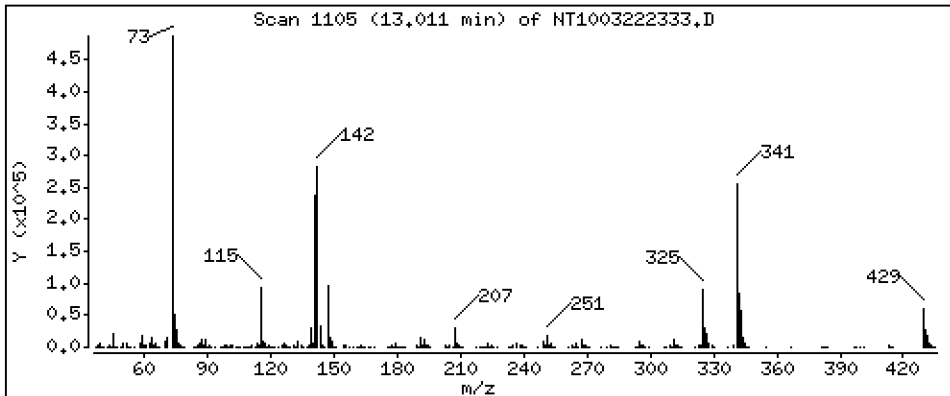
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 5,249 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

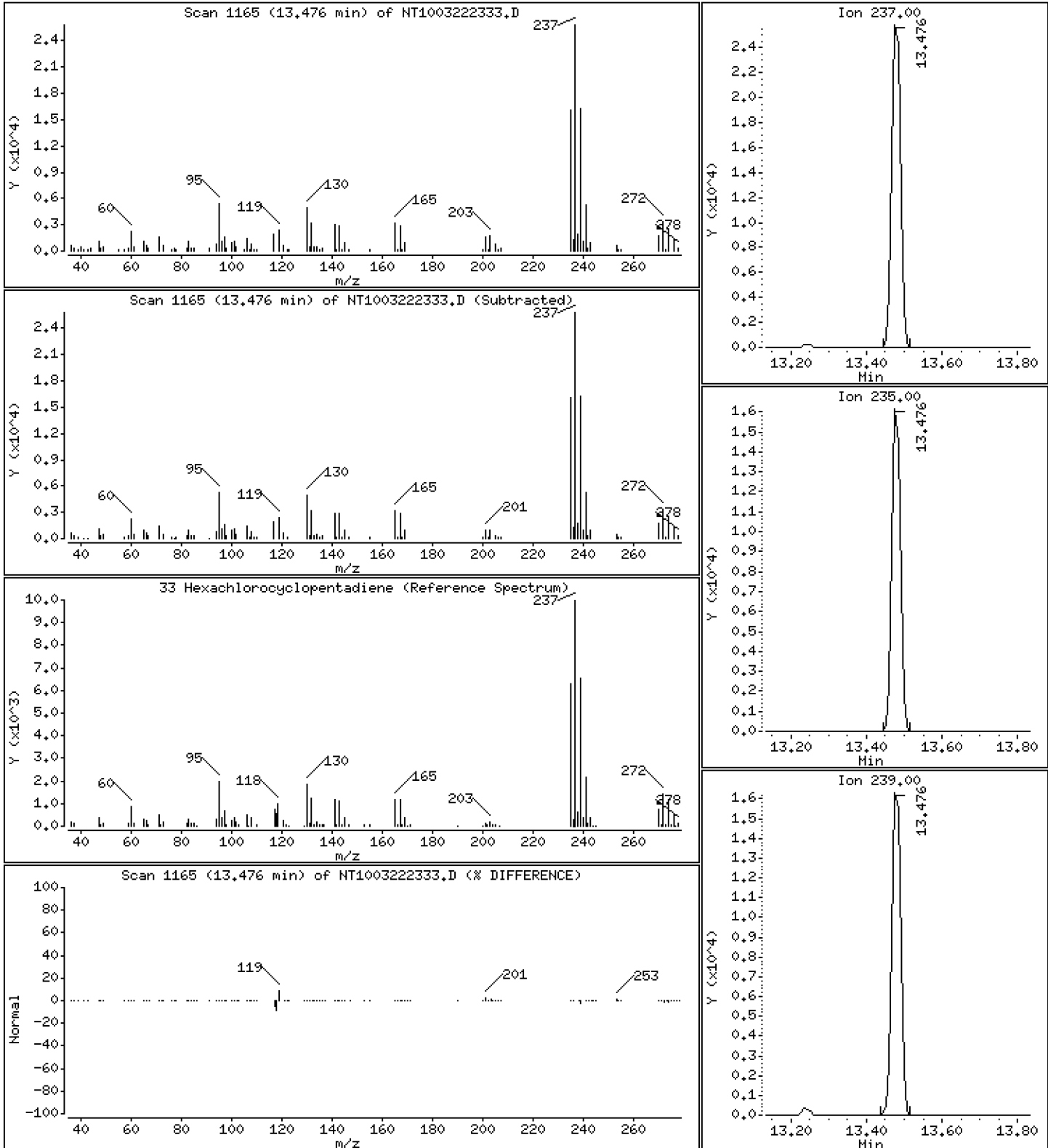
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

33 Hexachlorocyclopentadiene

Concentration: 1,743 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

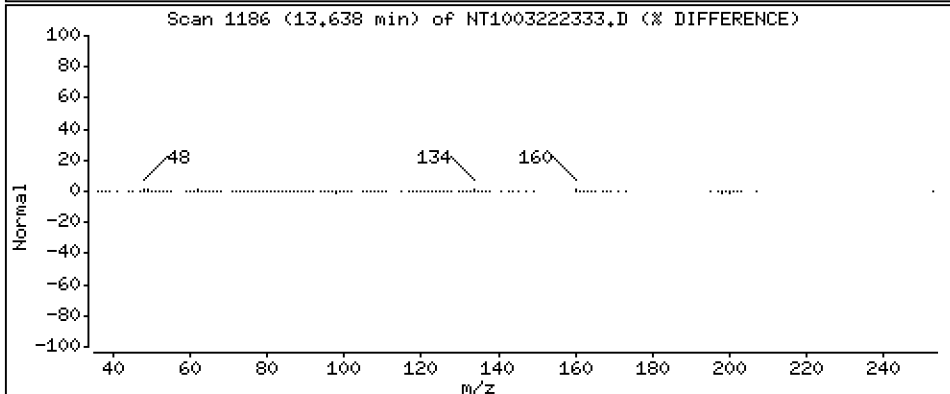
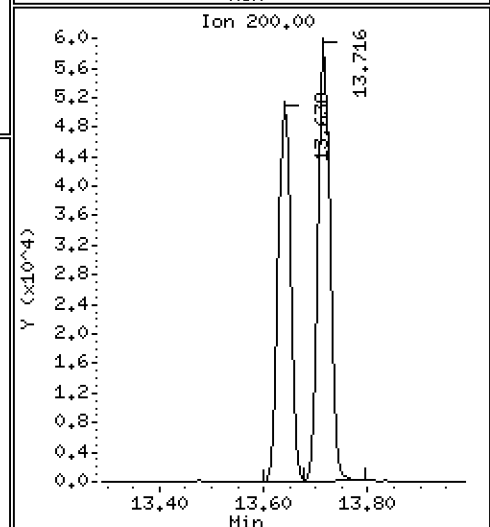
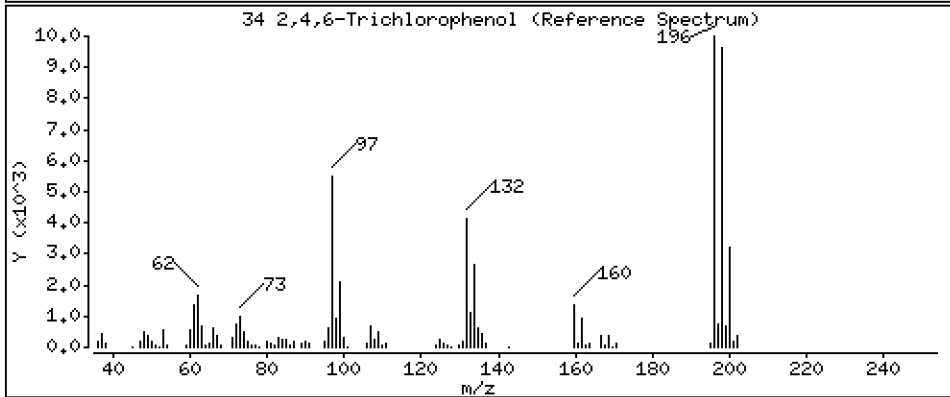
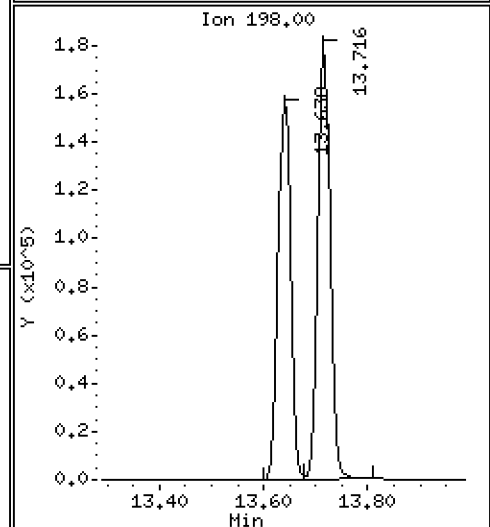
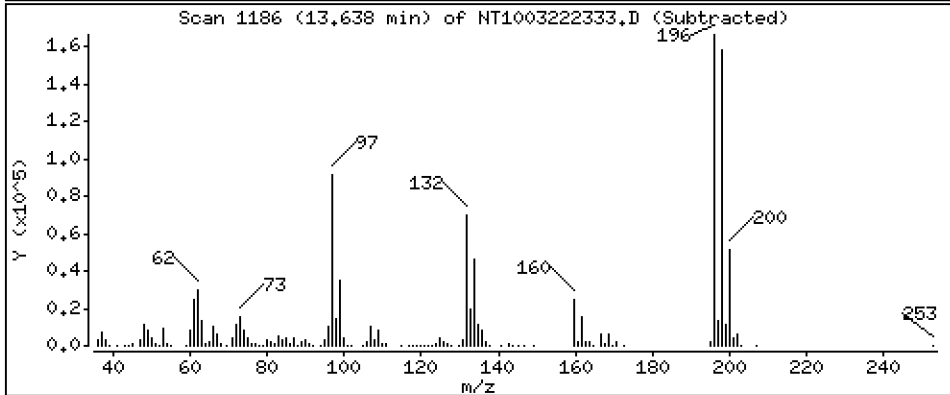
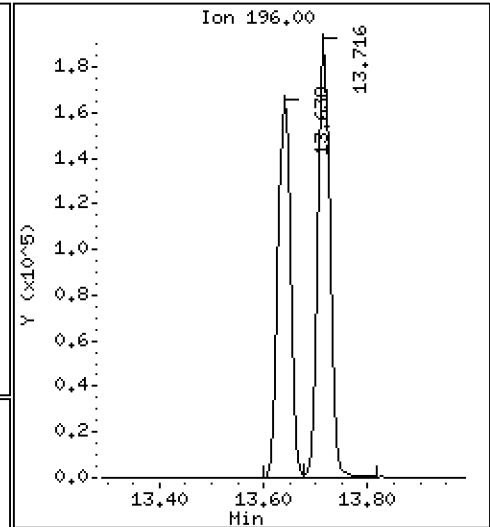
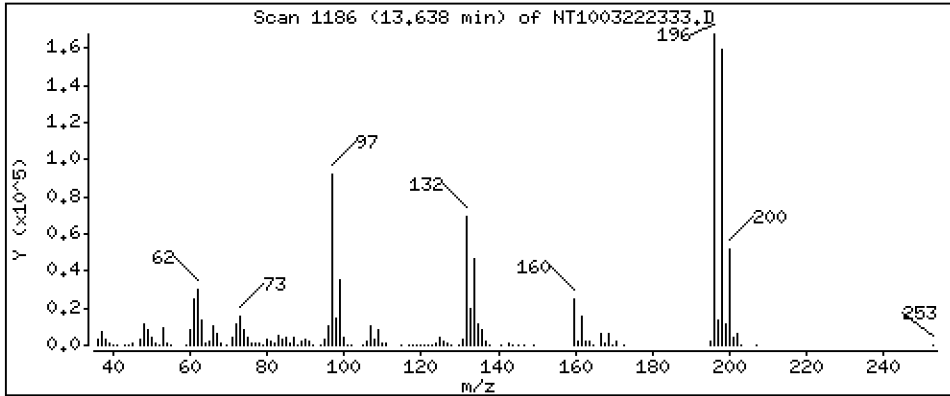
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 10,95 ug/mL





Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

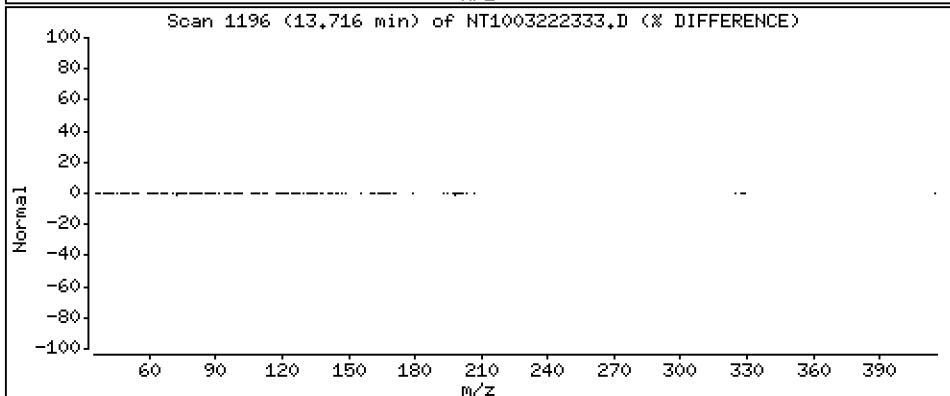
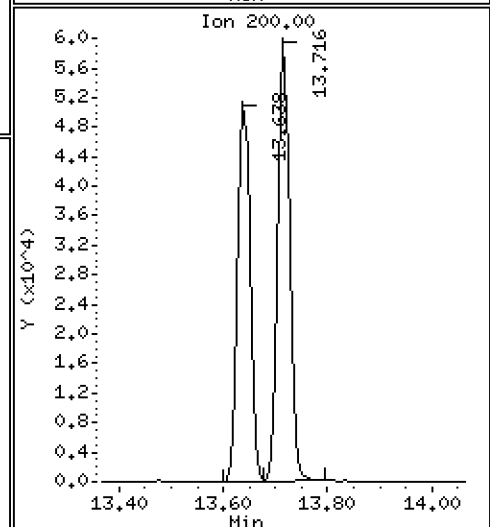
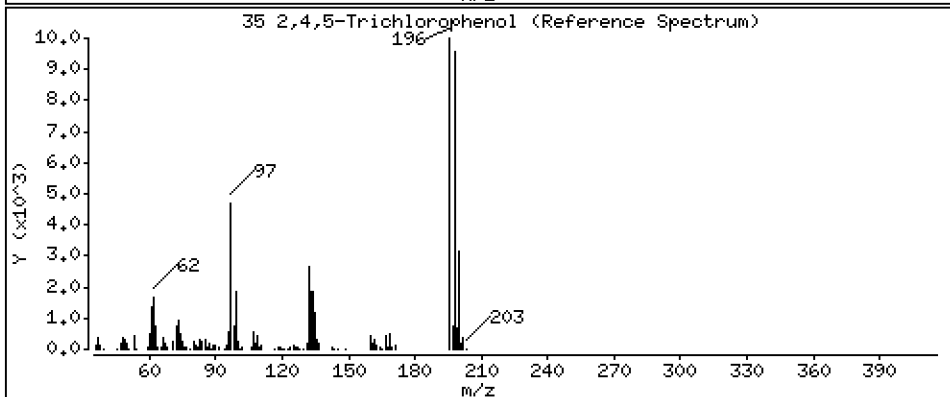
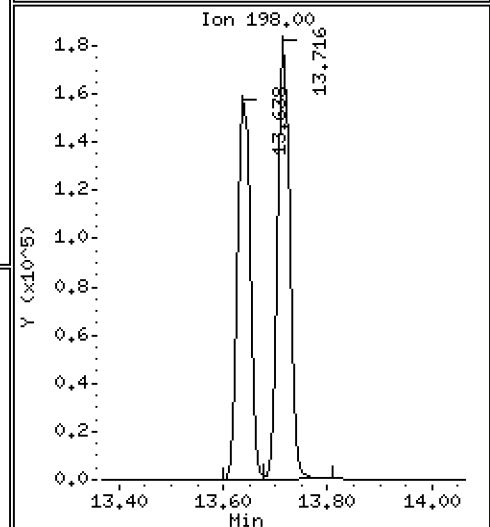
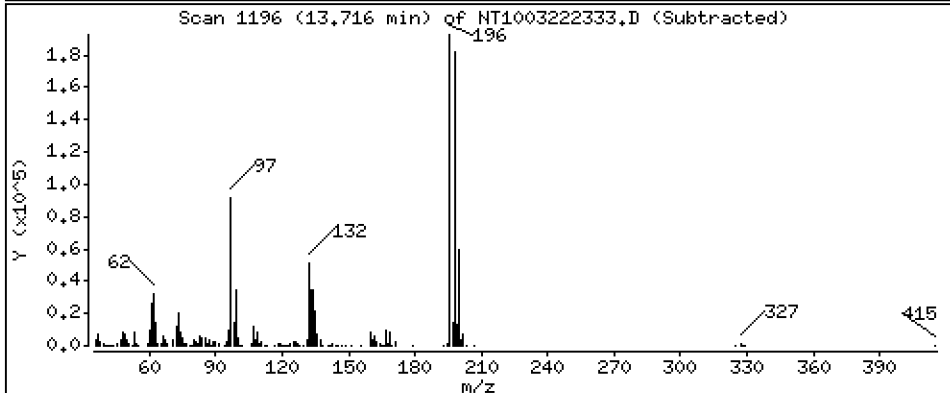
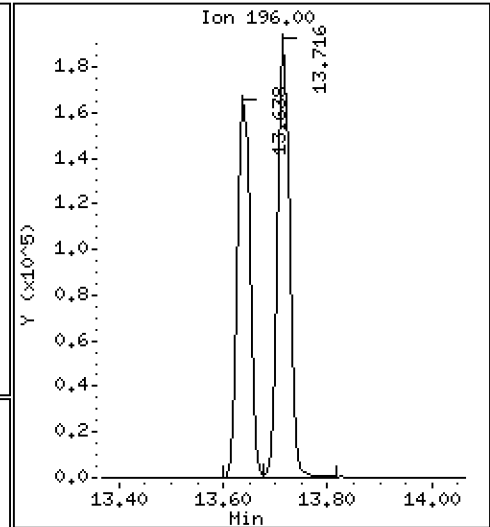
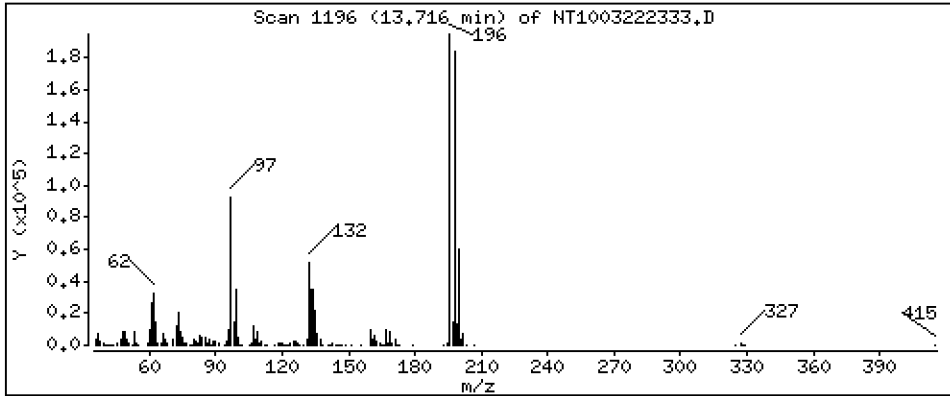
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 10,78 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

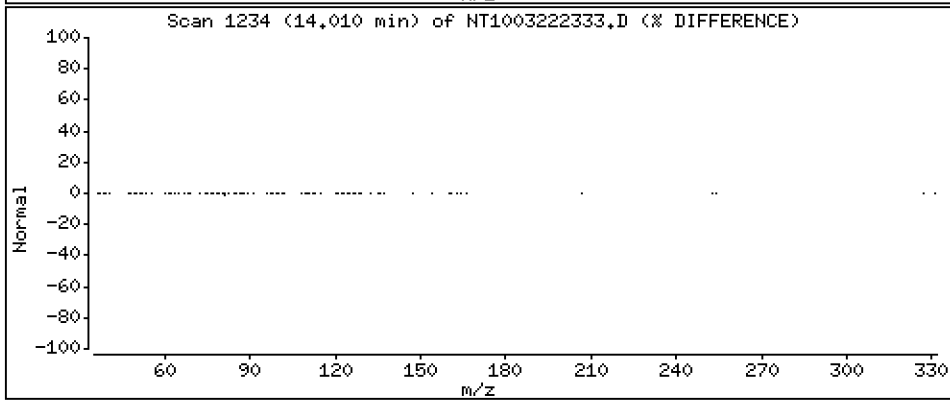
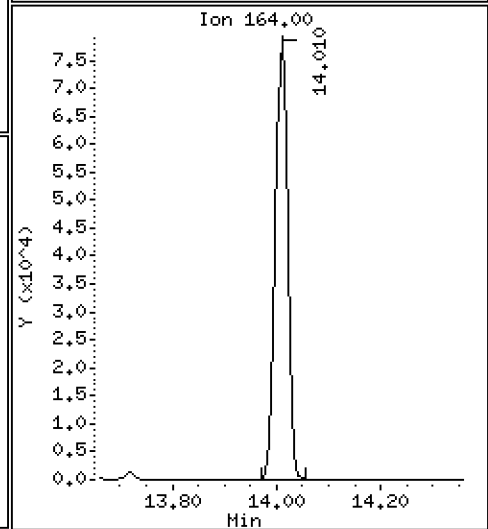
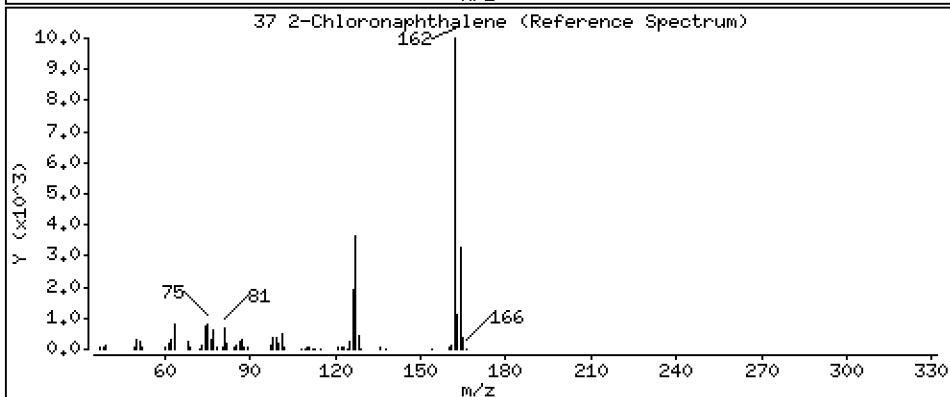
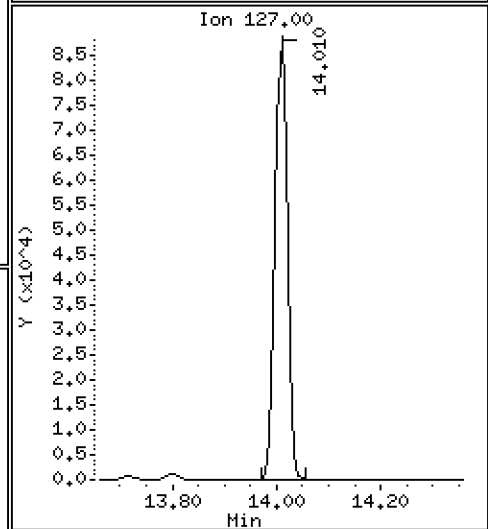
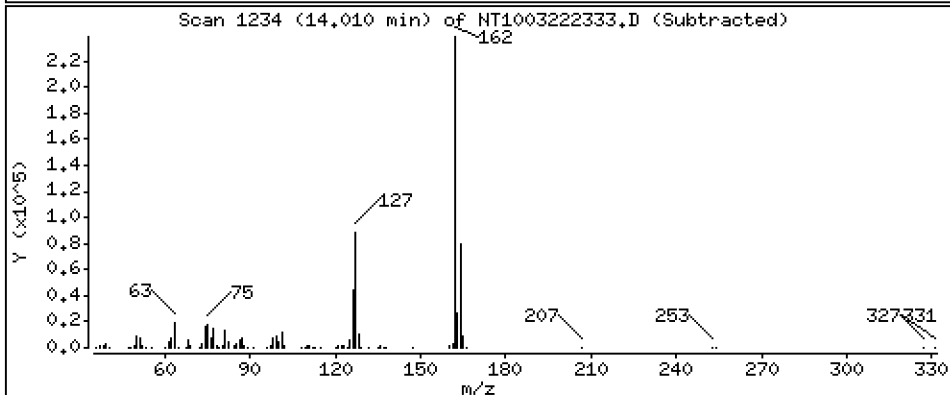
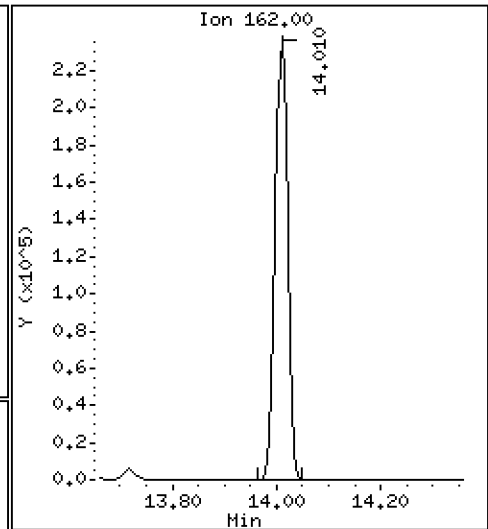
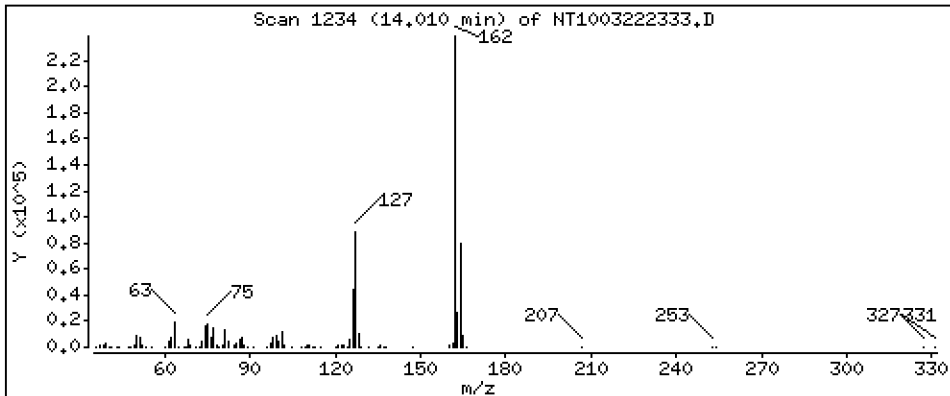
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,833 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

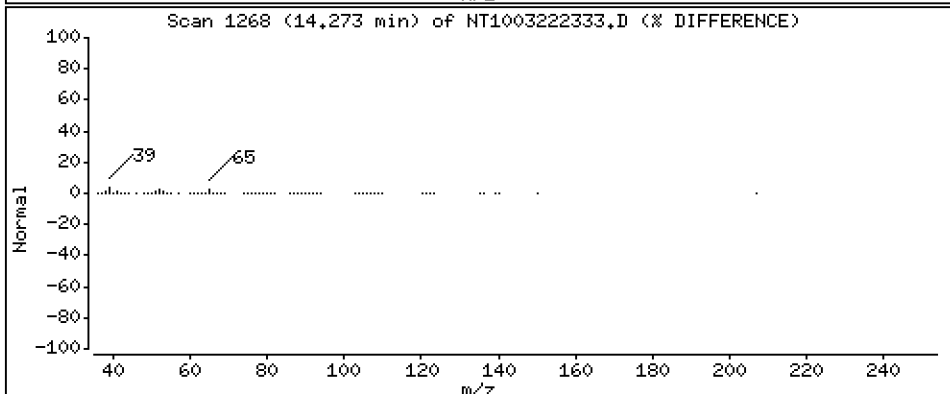
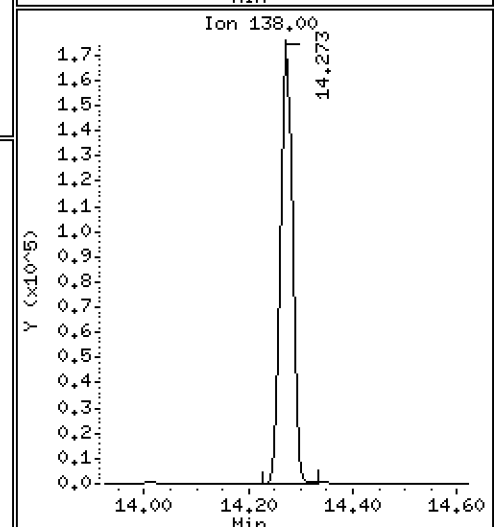
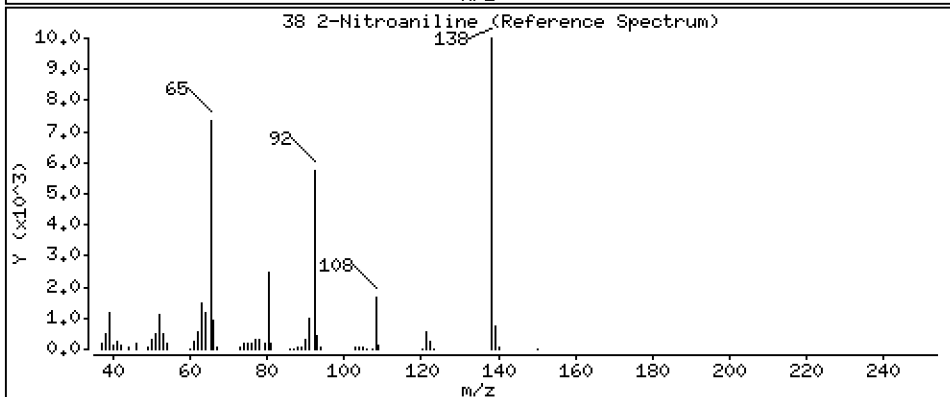
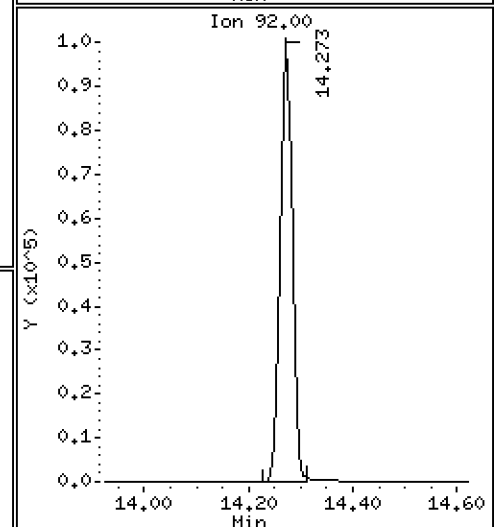
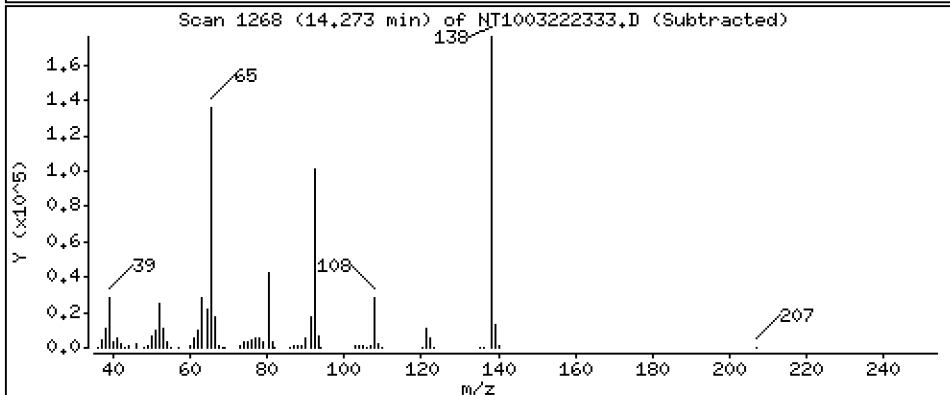
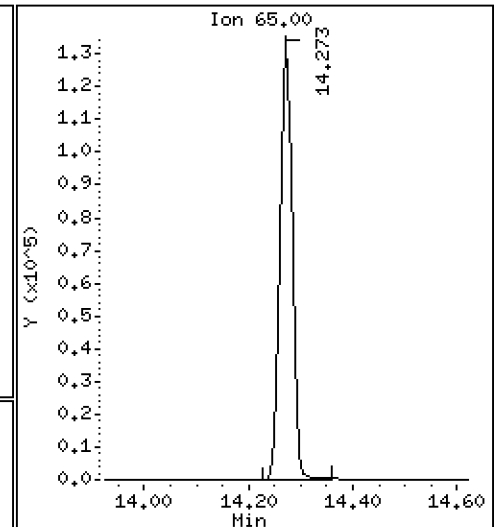
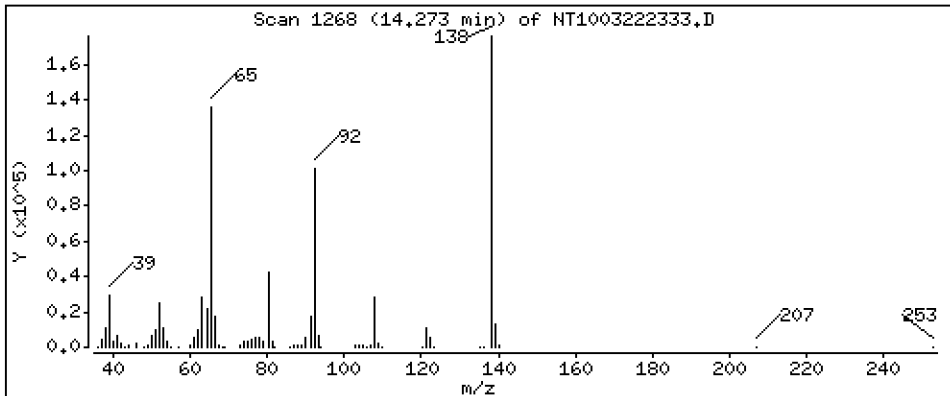
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 9,300 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

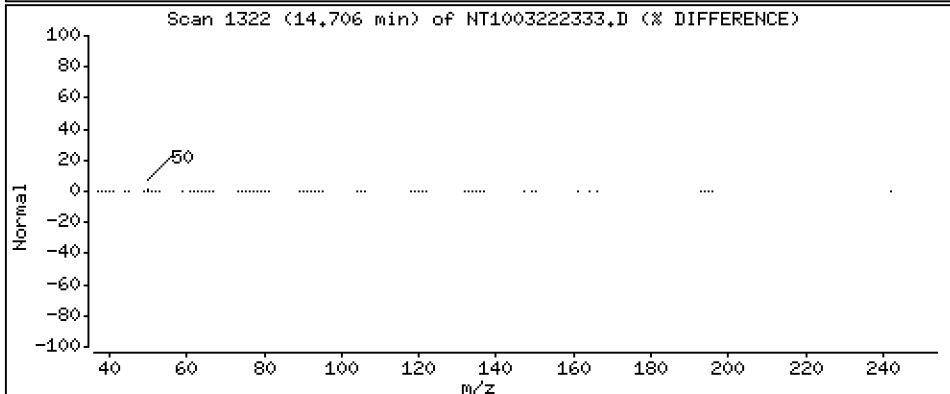
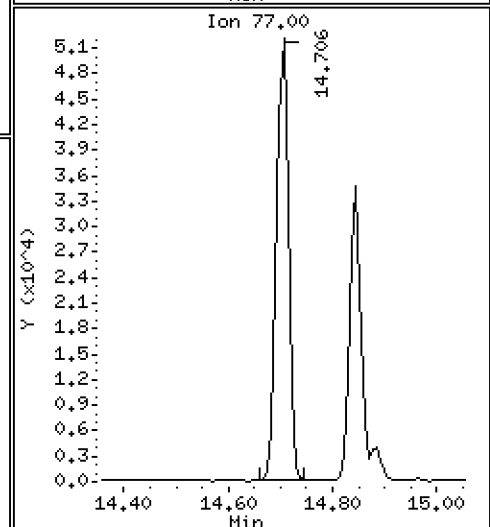
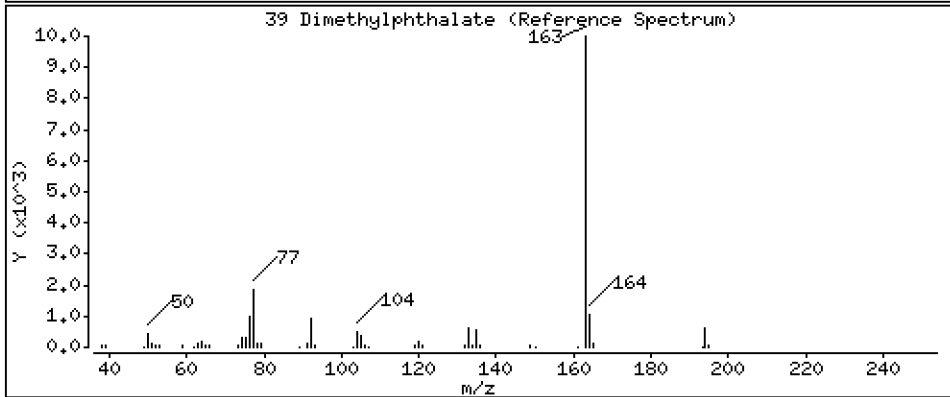
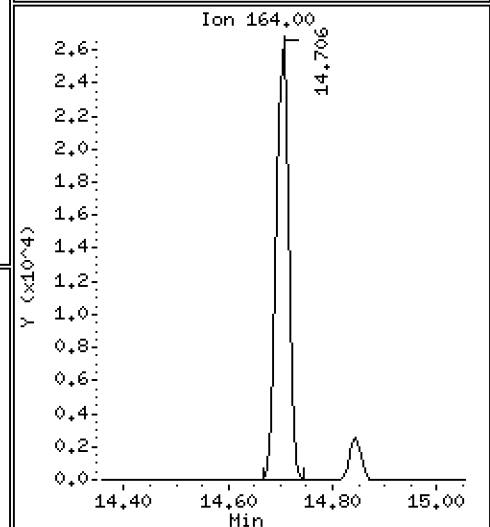
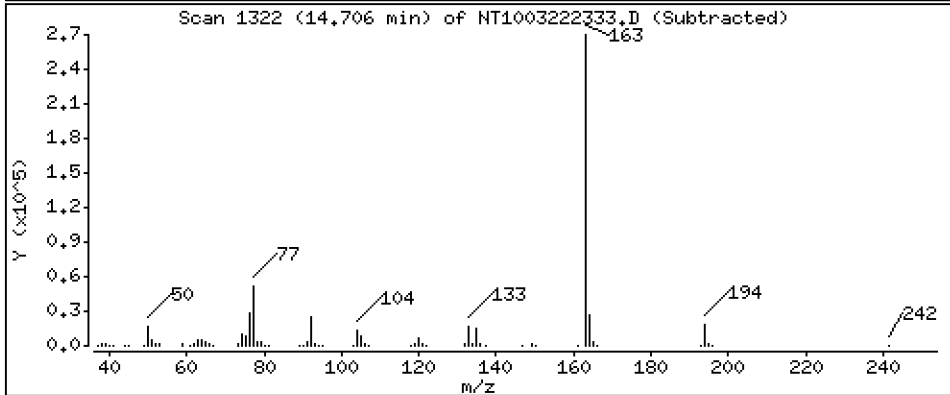
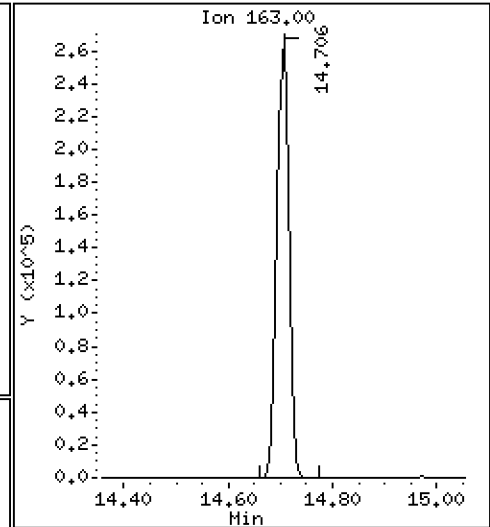
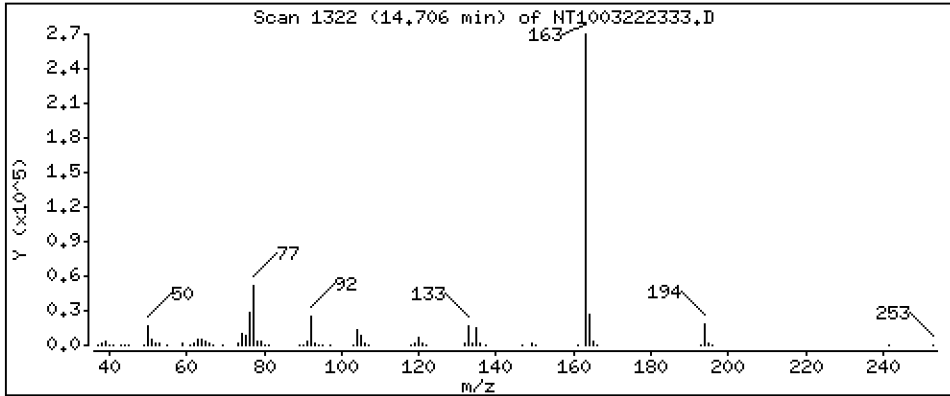
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,130 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

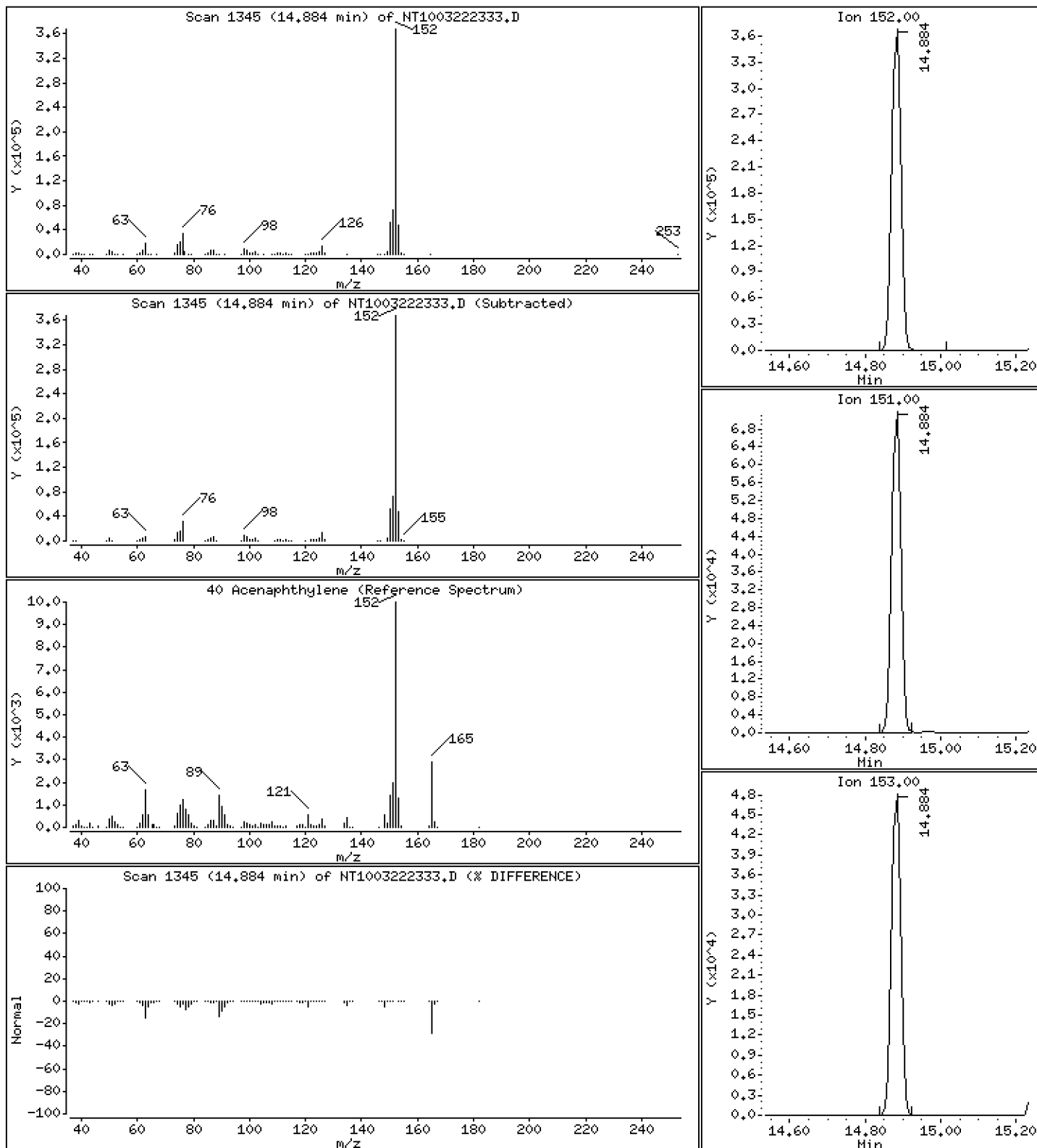
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 5,329 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

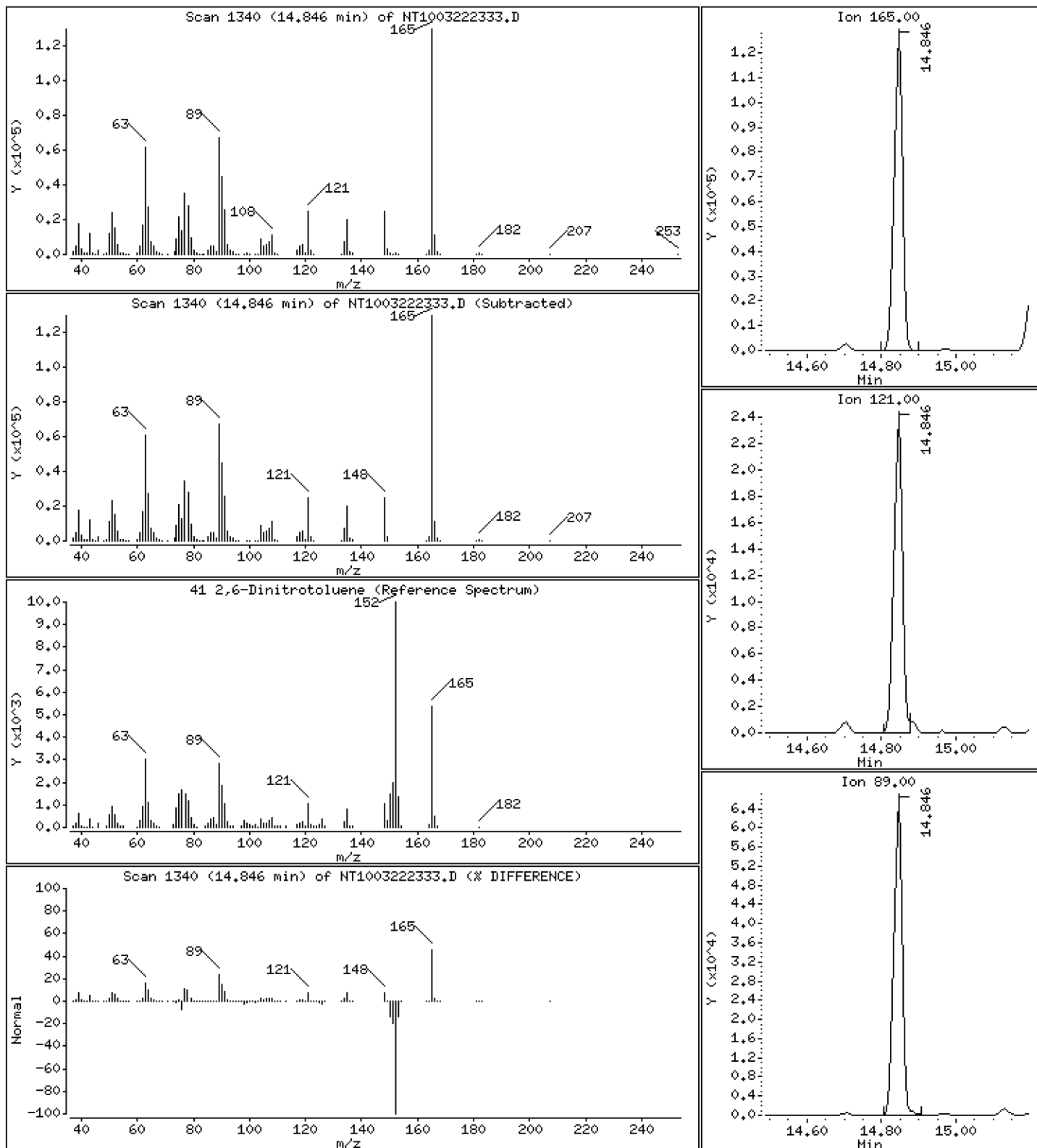
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 11.14 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

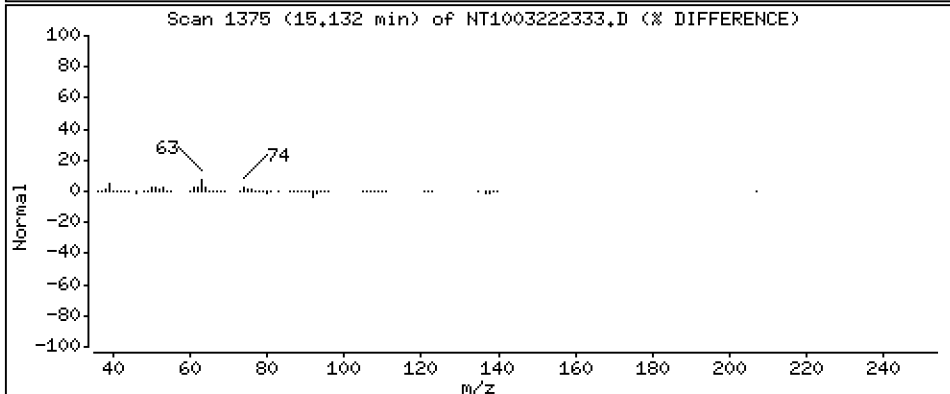
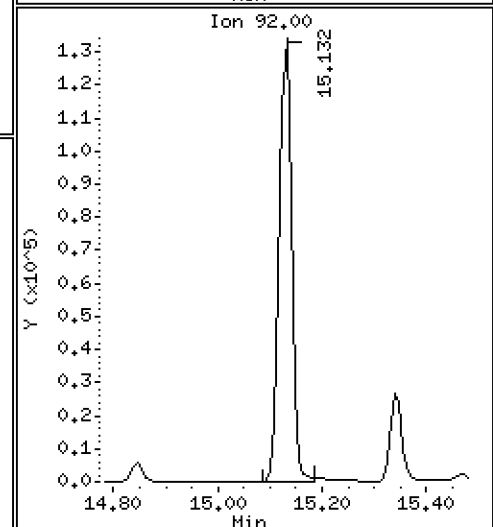
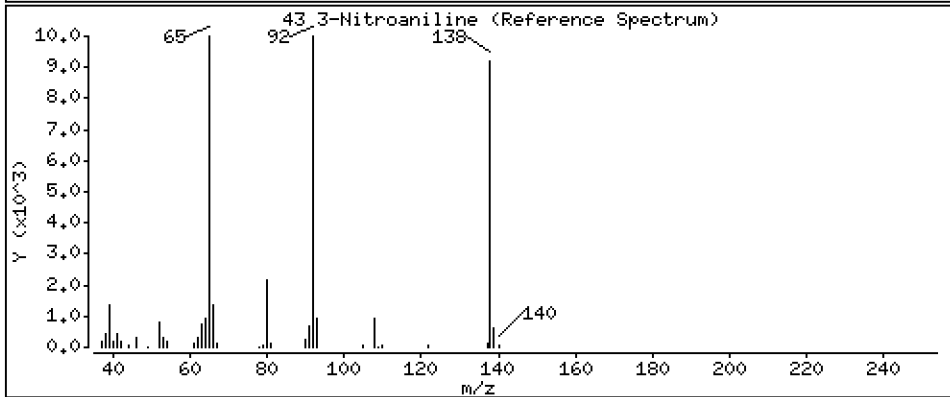
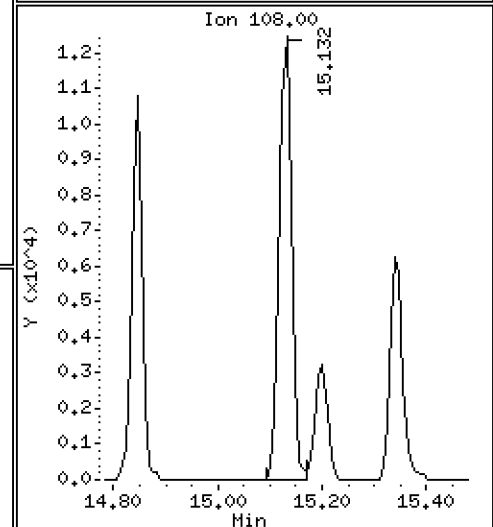
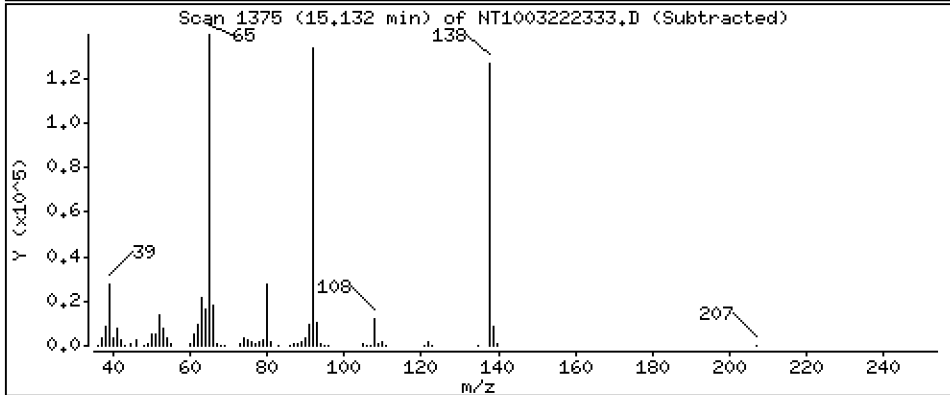
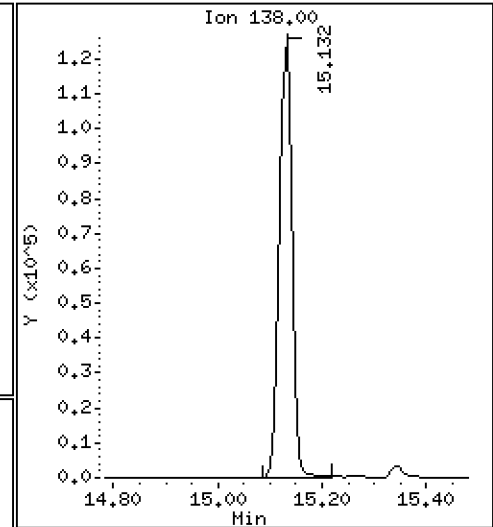
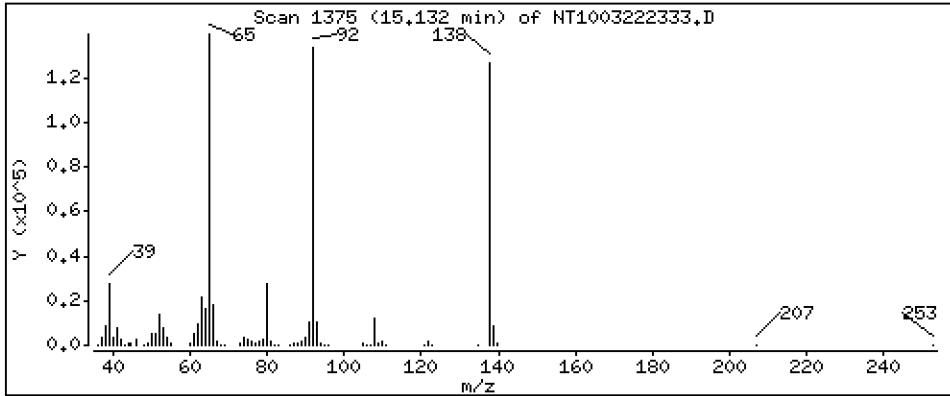
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 10,34 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

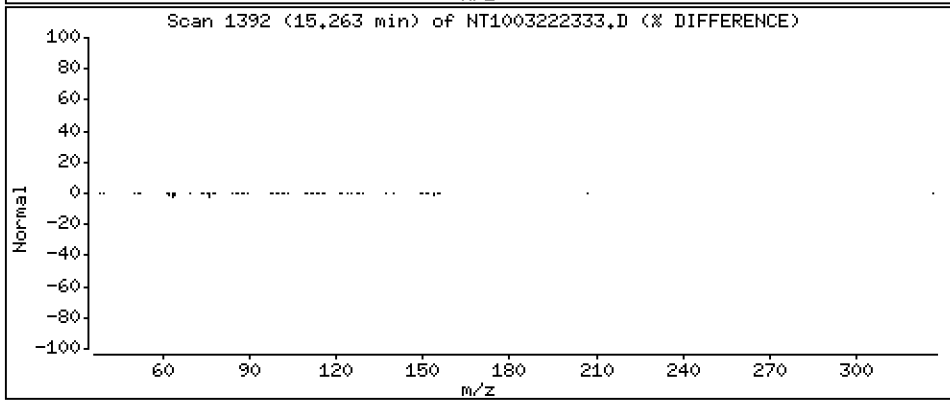
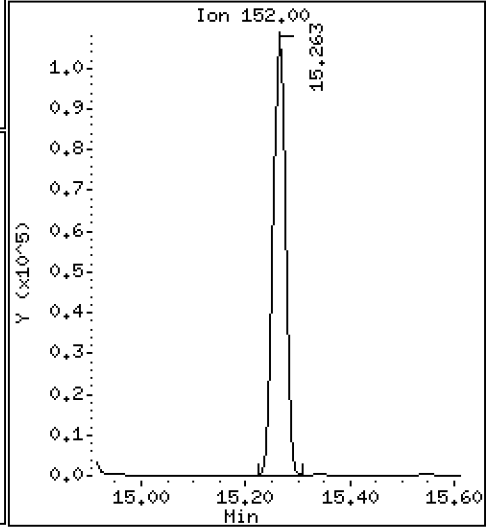
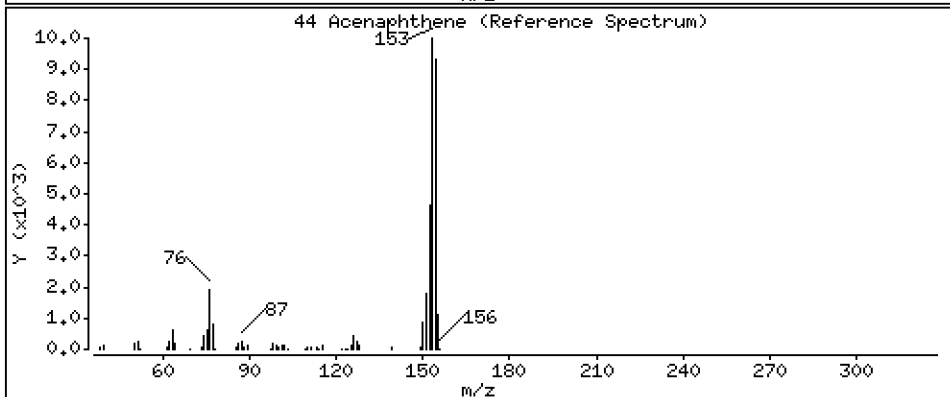
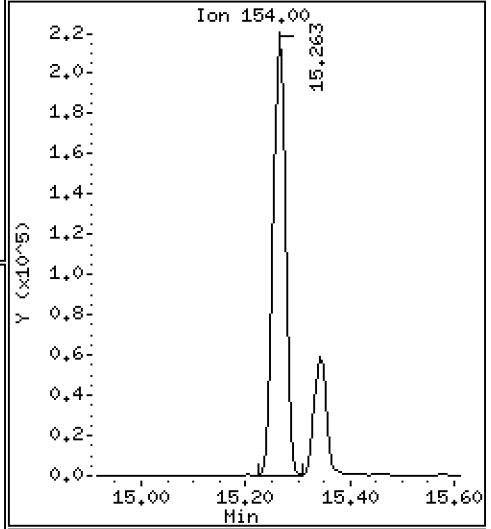
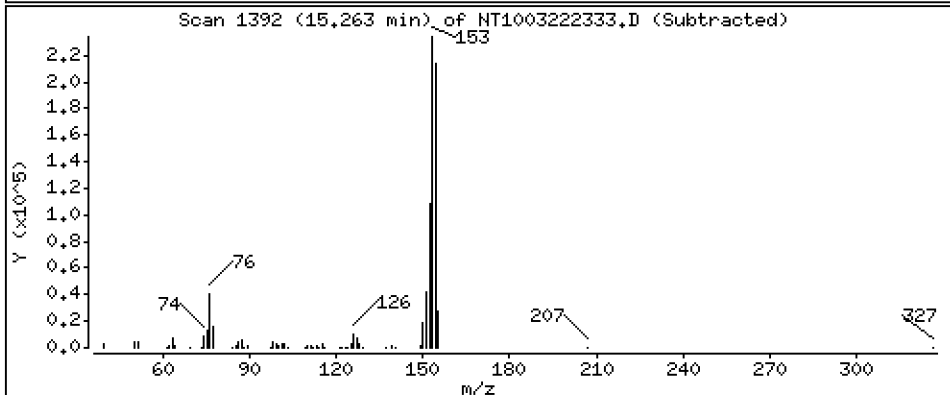
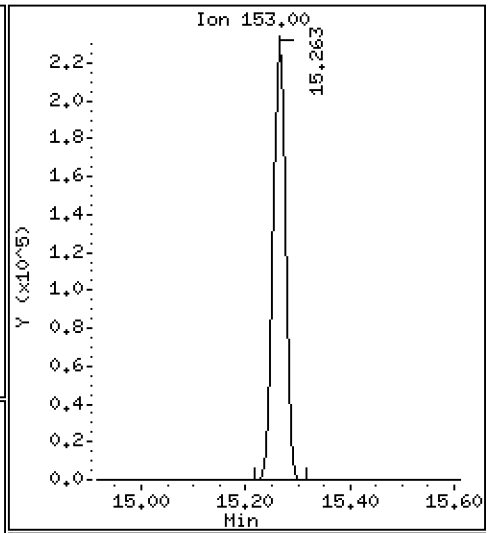
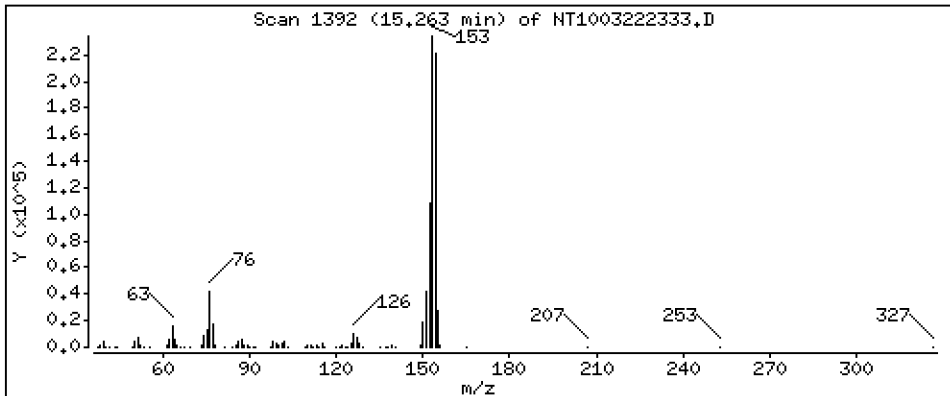
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,794 ug/mL





Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

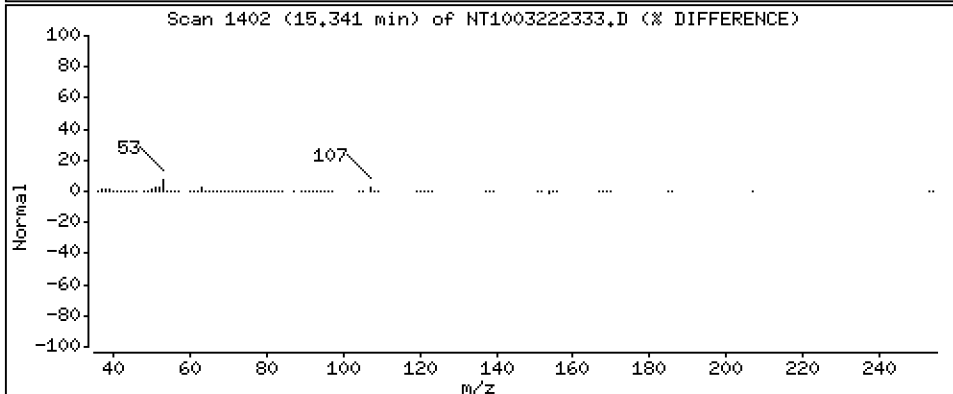
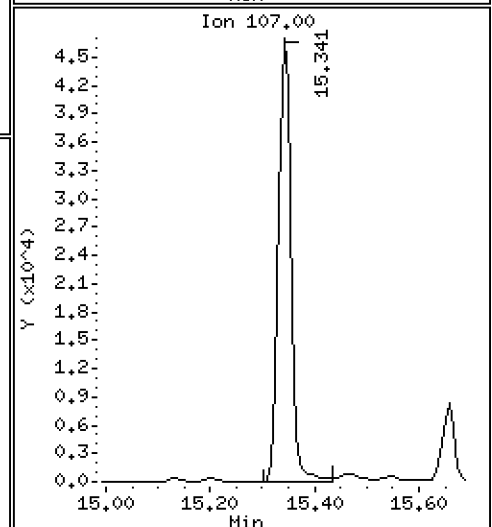
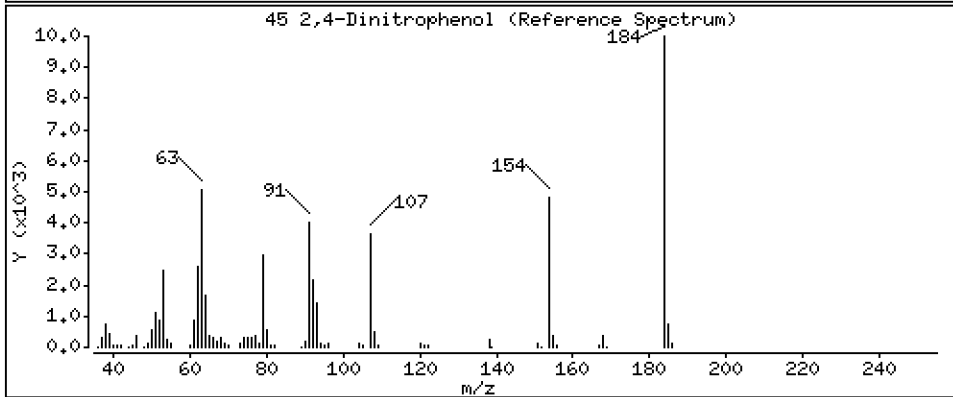
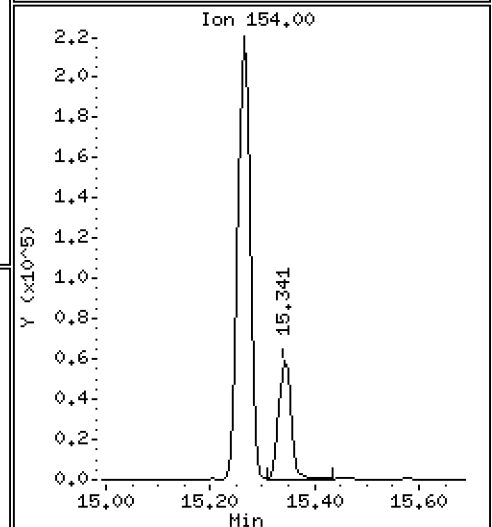
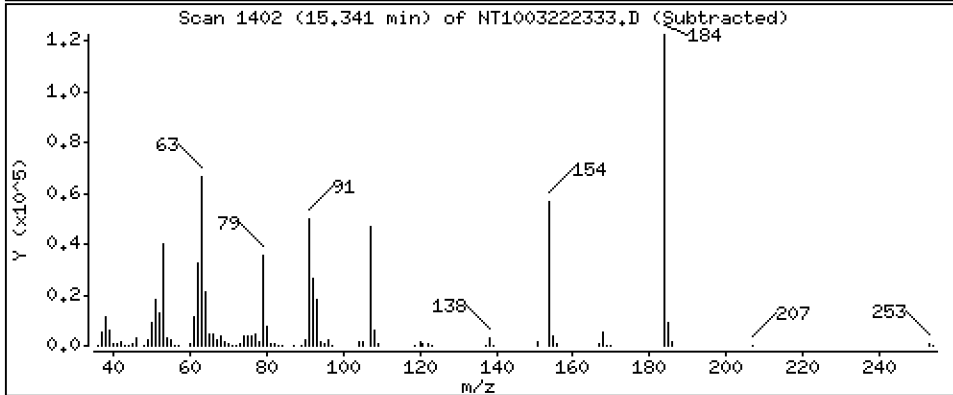
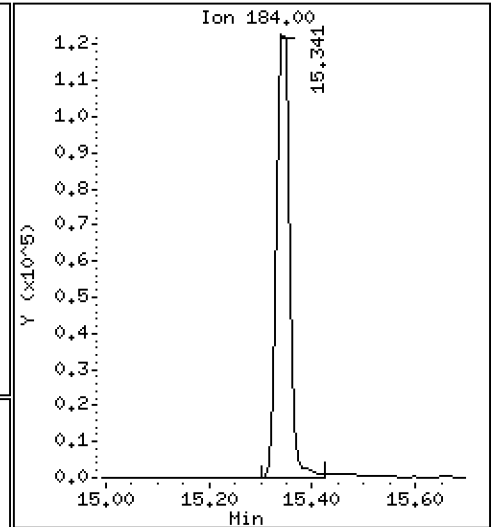
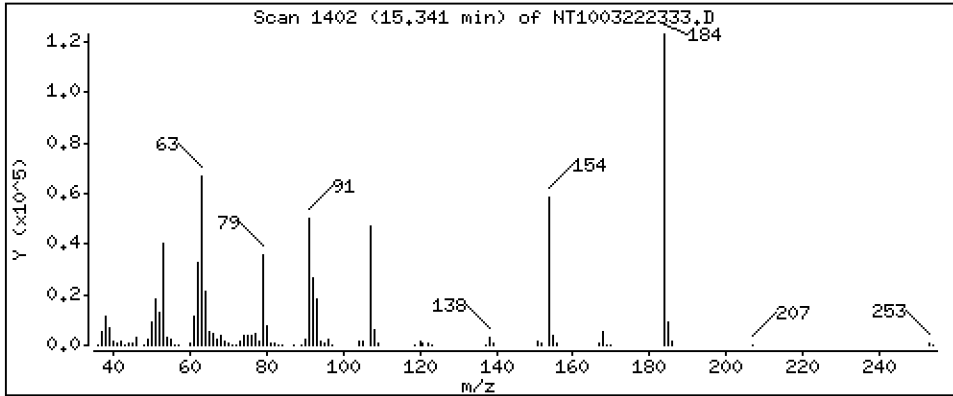
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 18,71 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

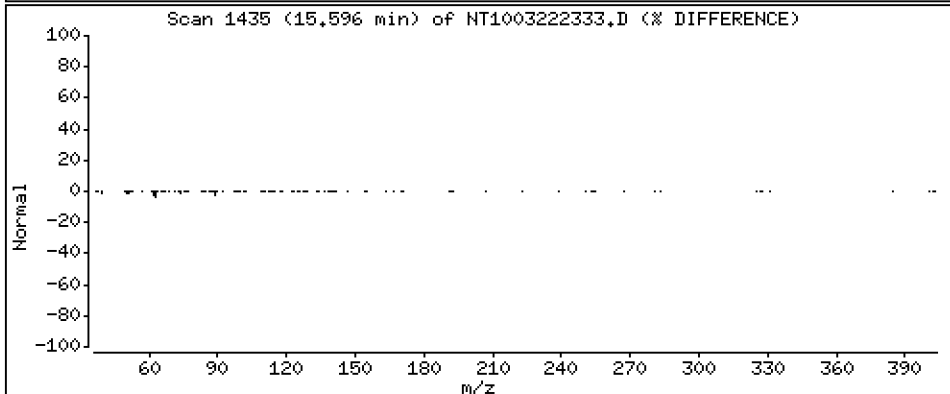
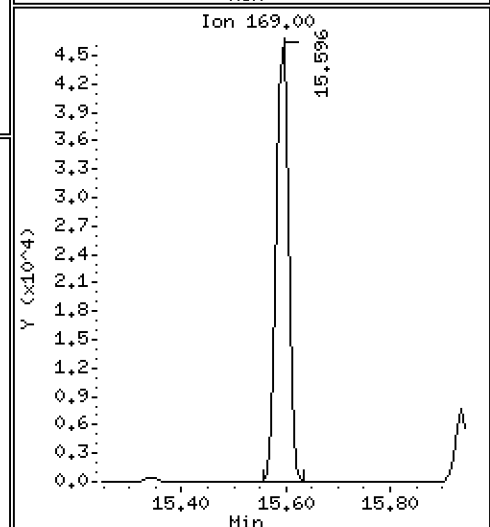
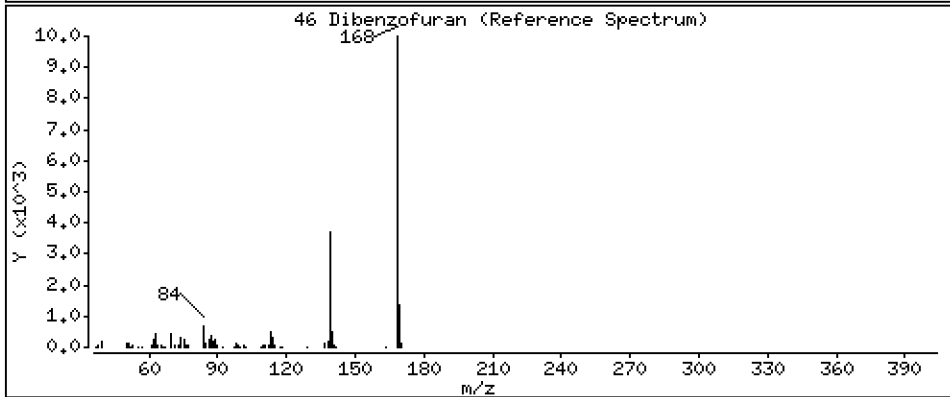
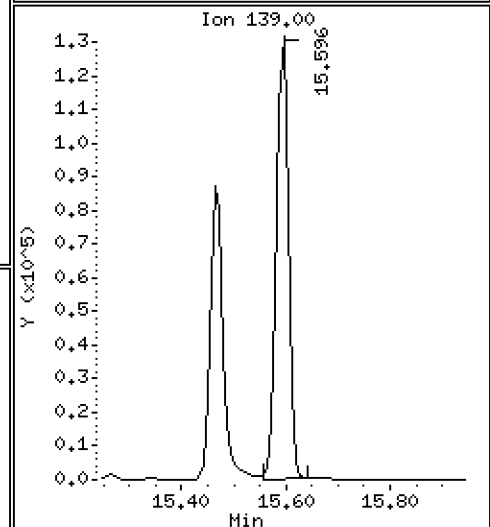
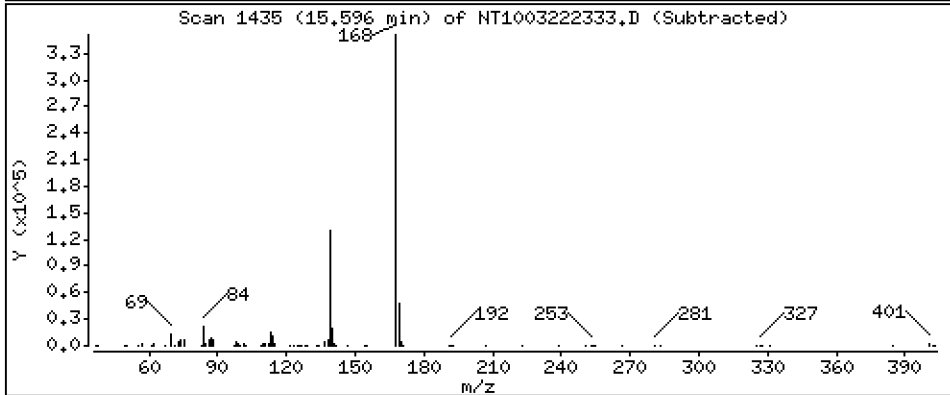
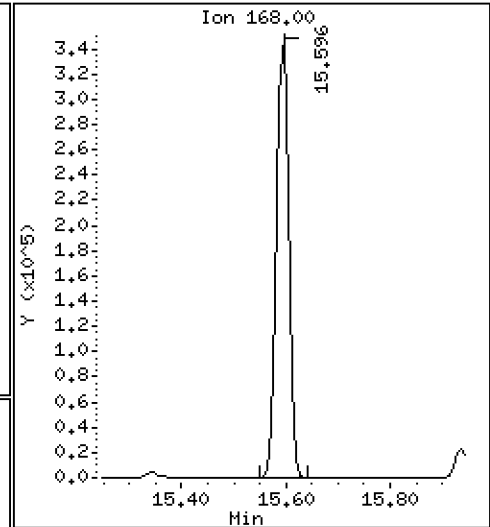
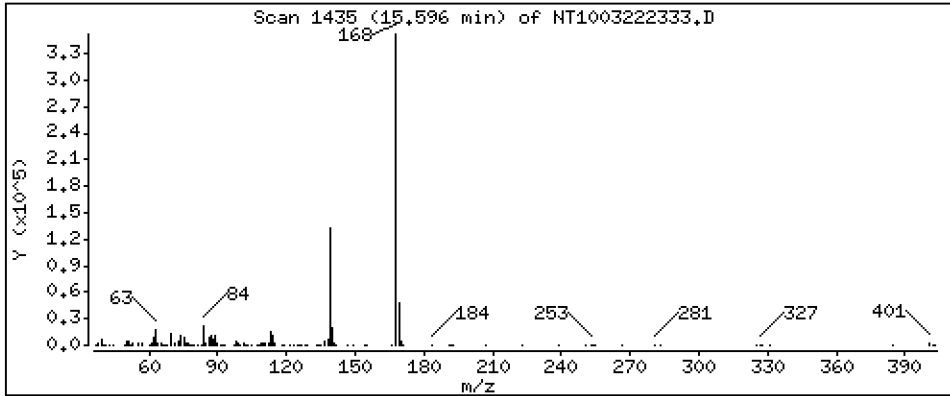
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,831 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

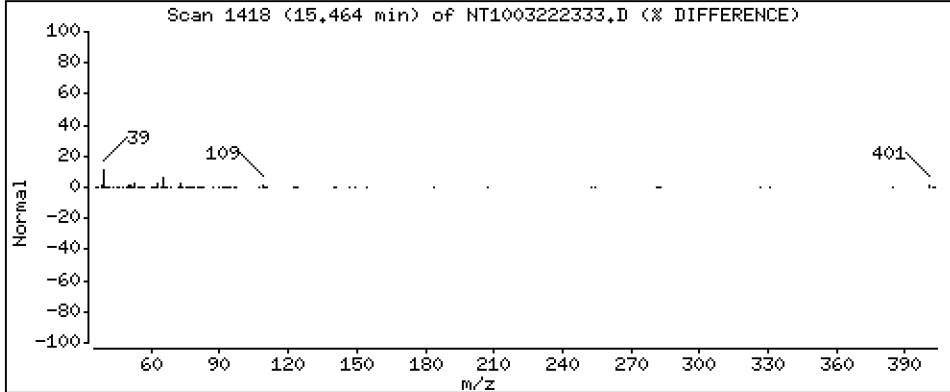
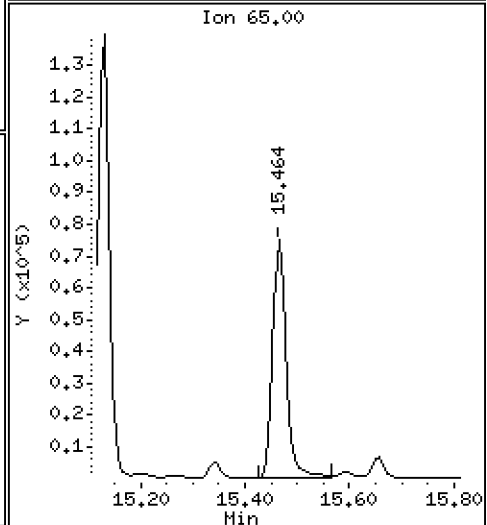
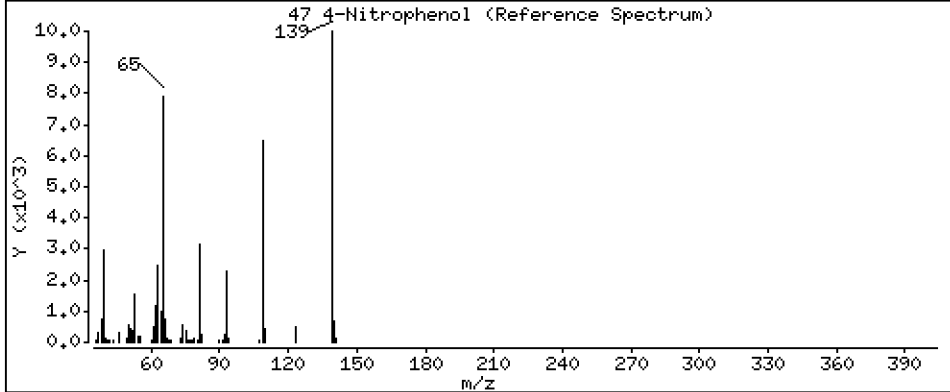
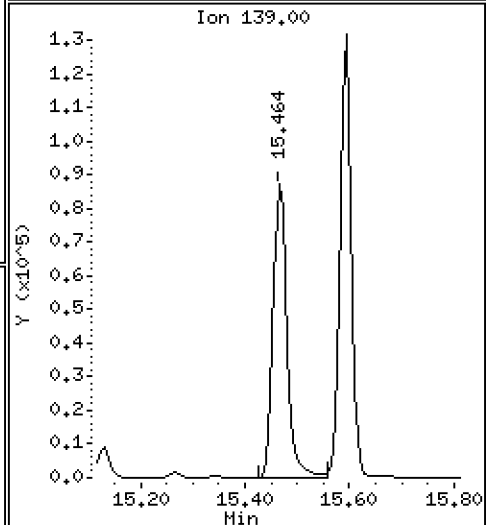
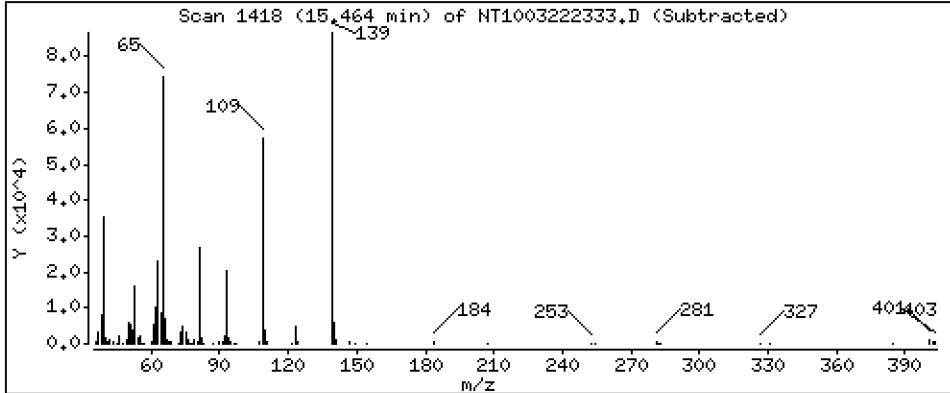
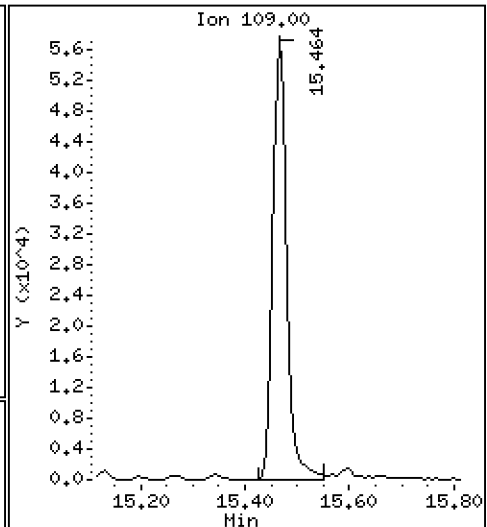
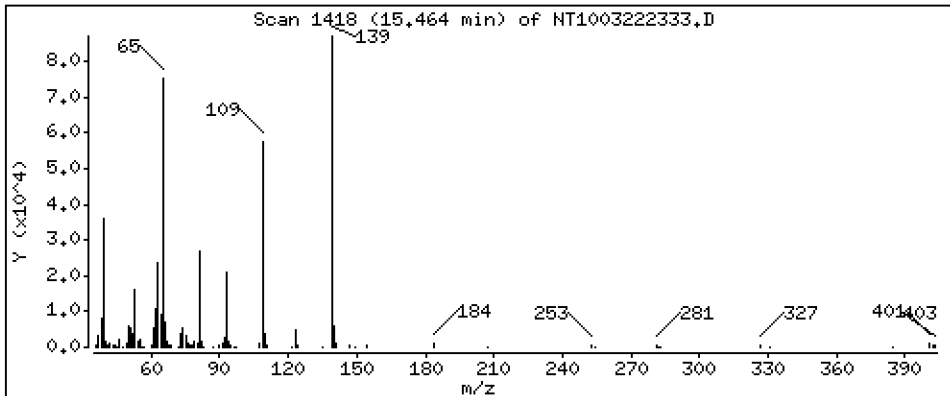
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 8,333 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

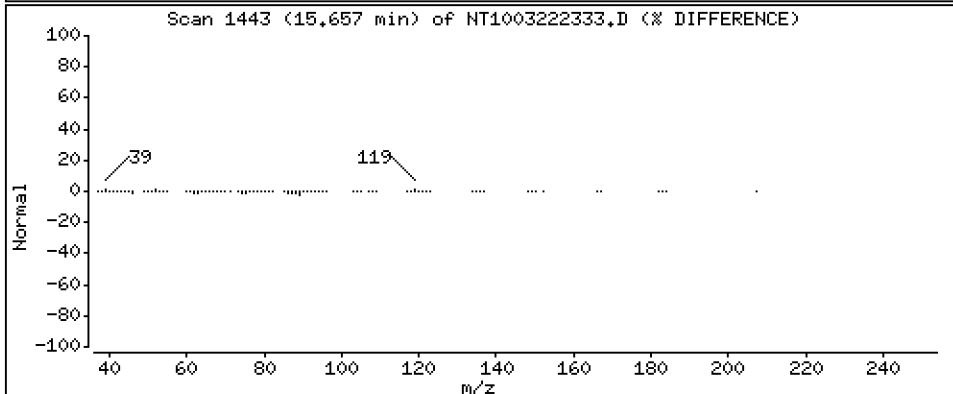
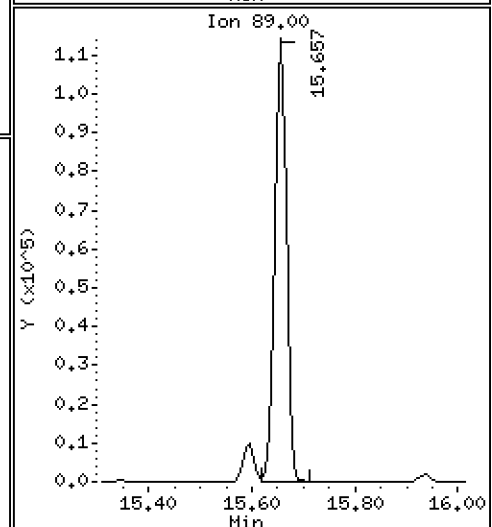
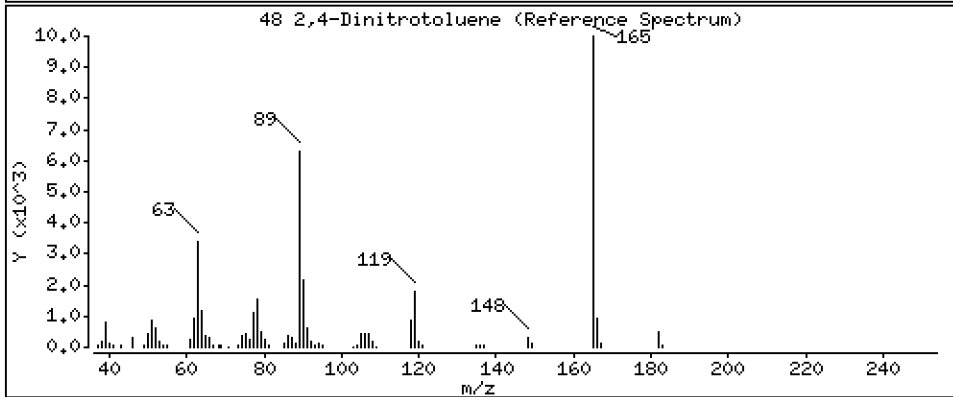
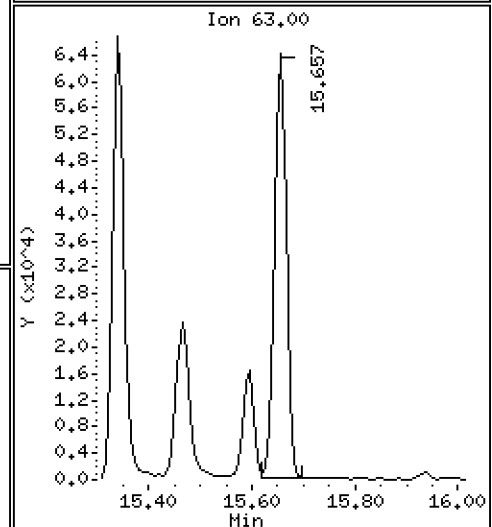
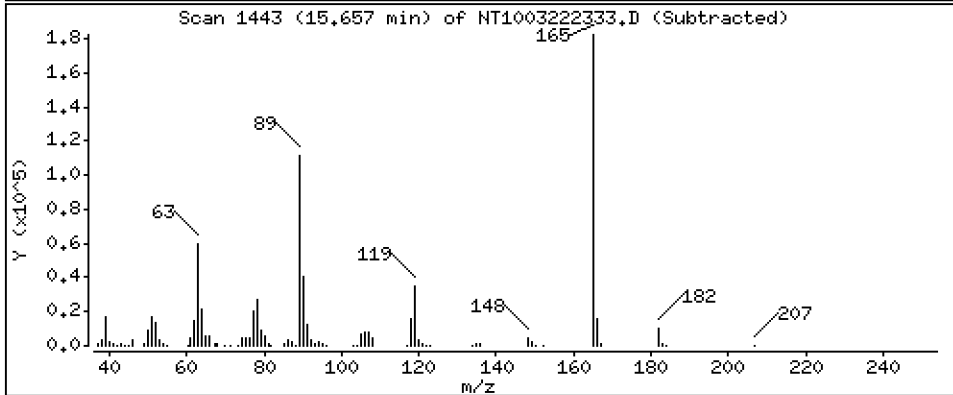
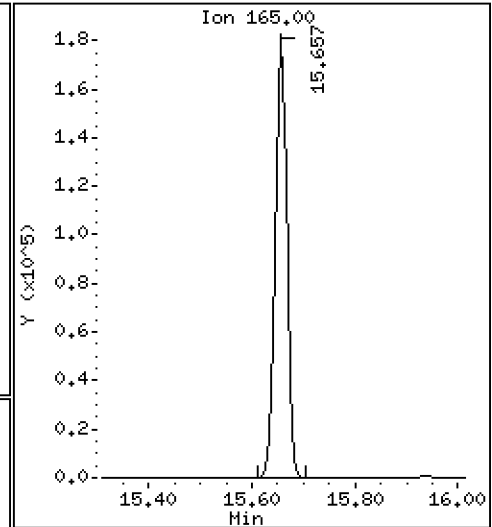
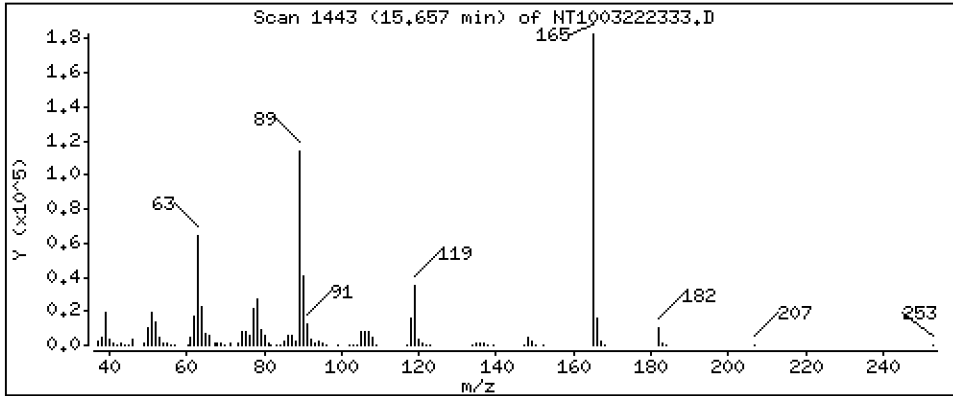
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 10,18 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

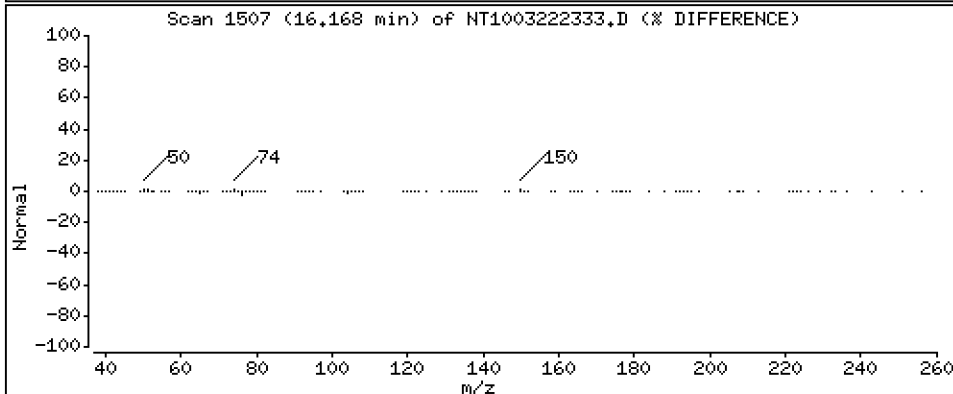
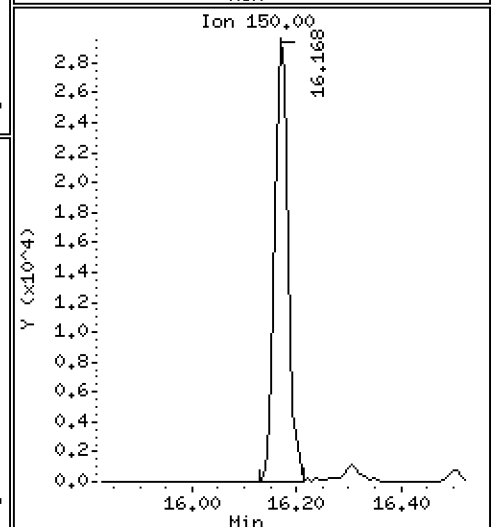
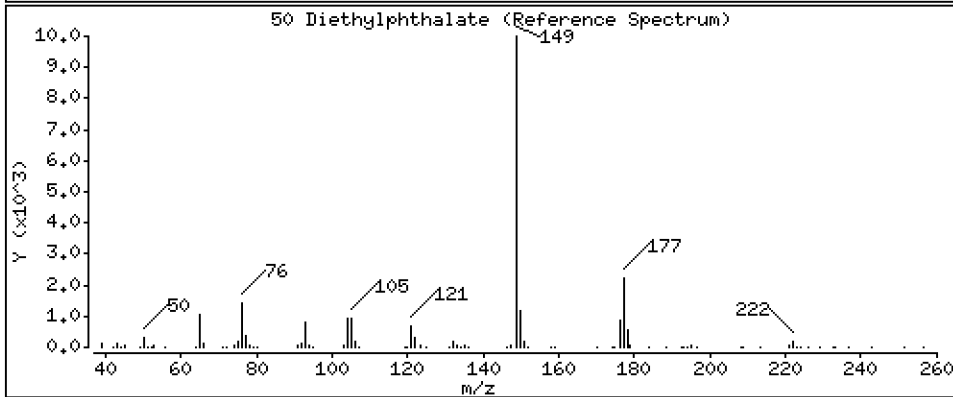
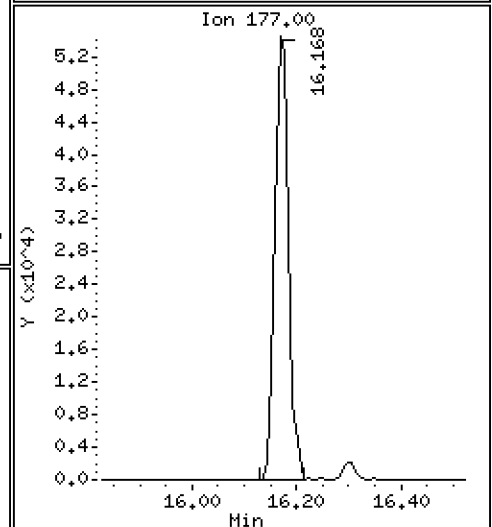
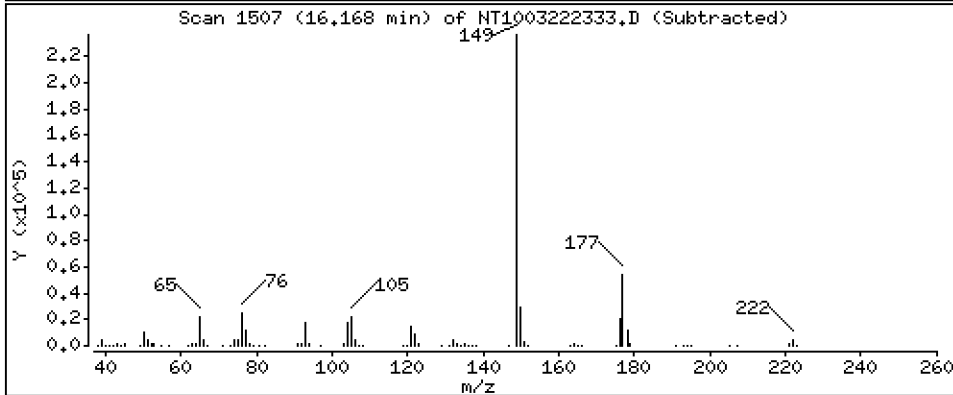
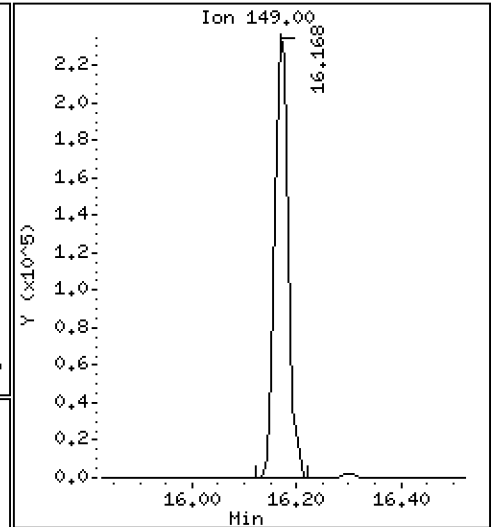
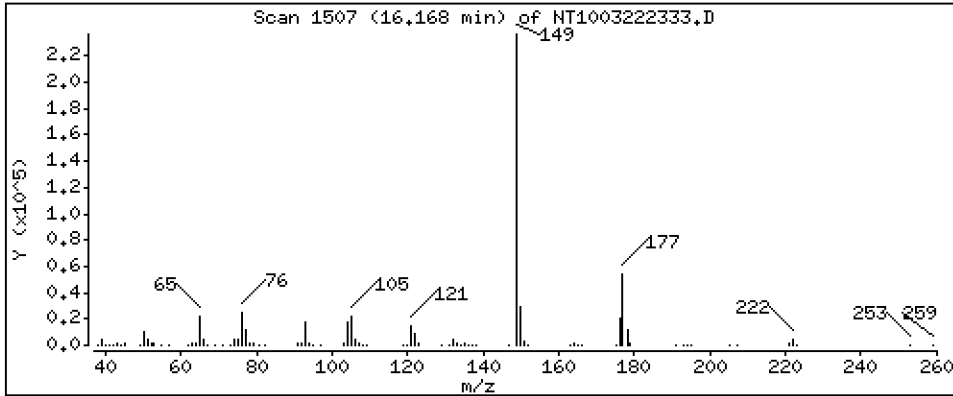
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,893 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

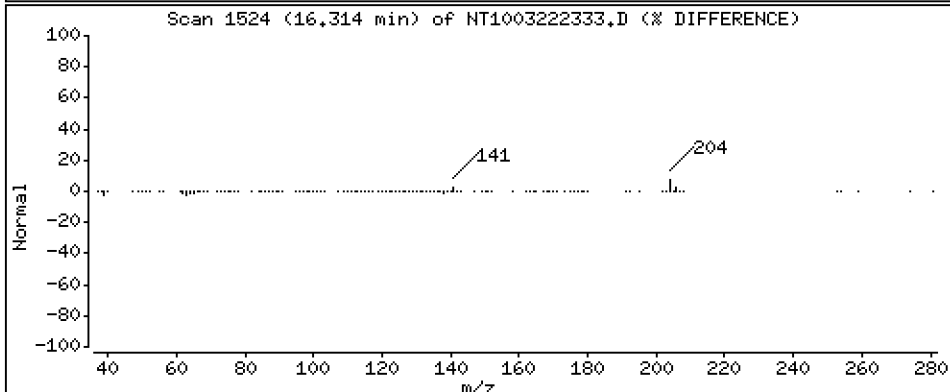
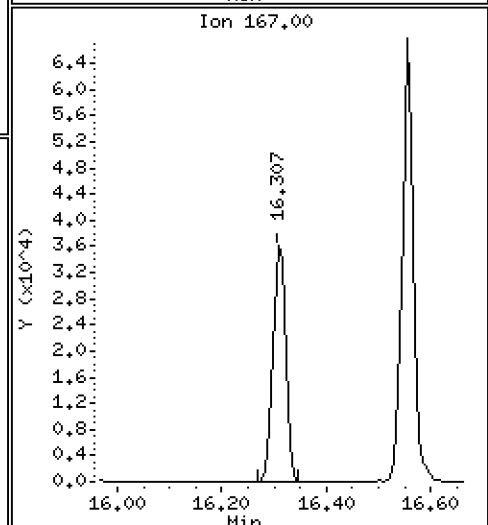
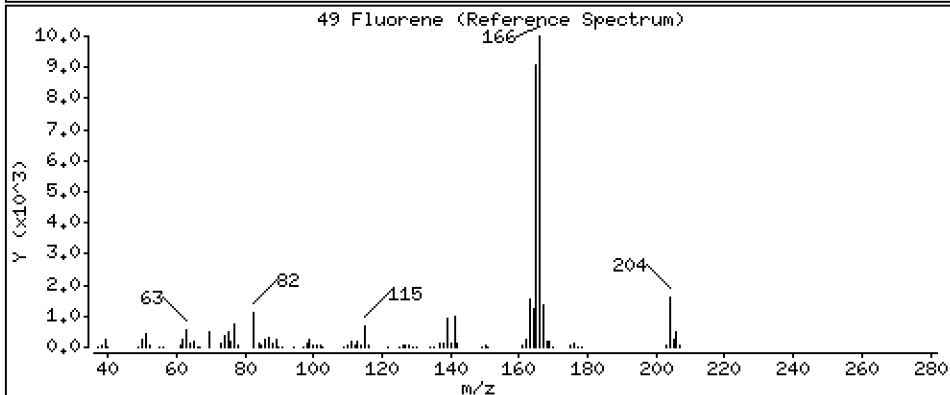
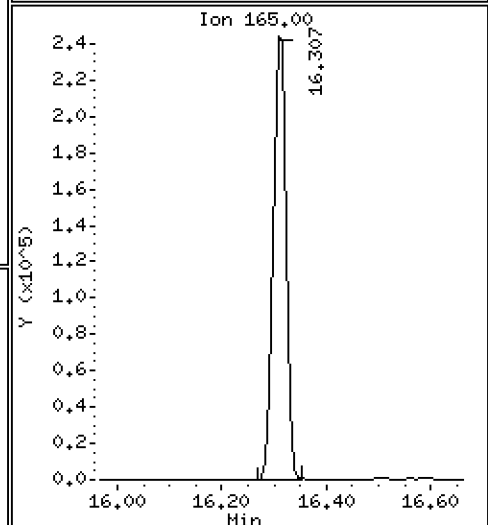
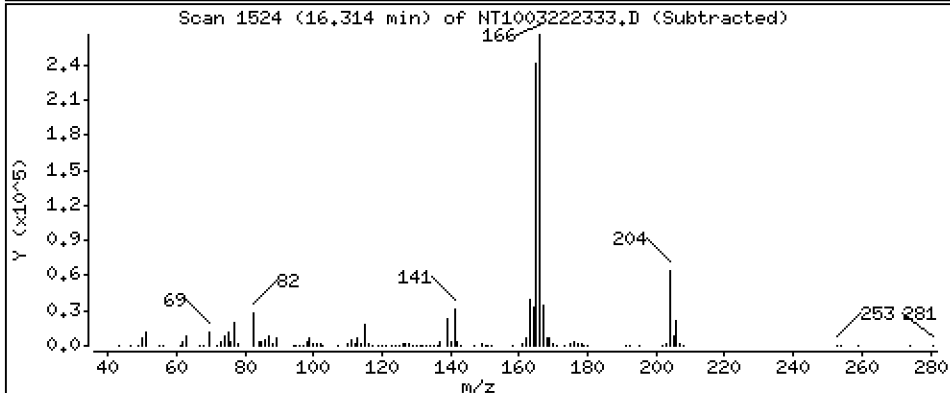
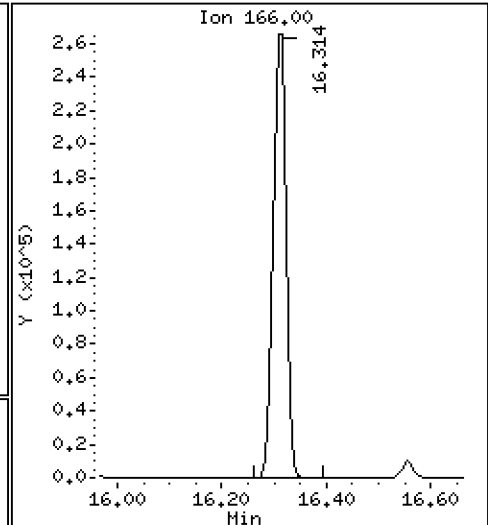
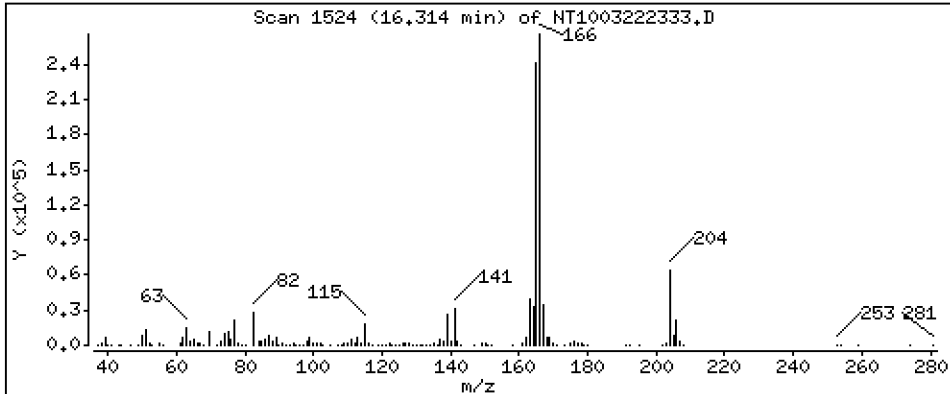
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,997 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

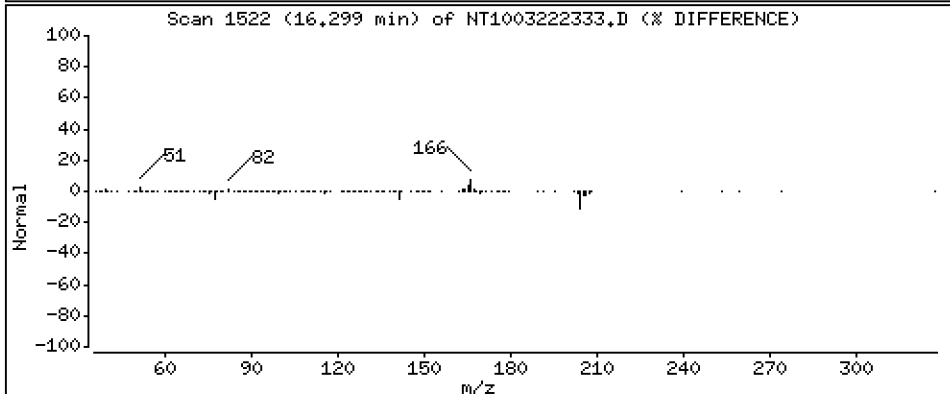
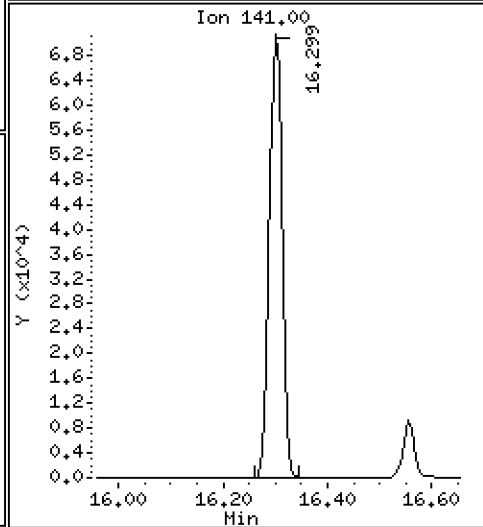
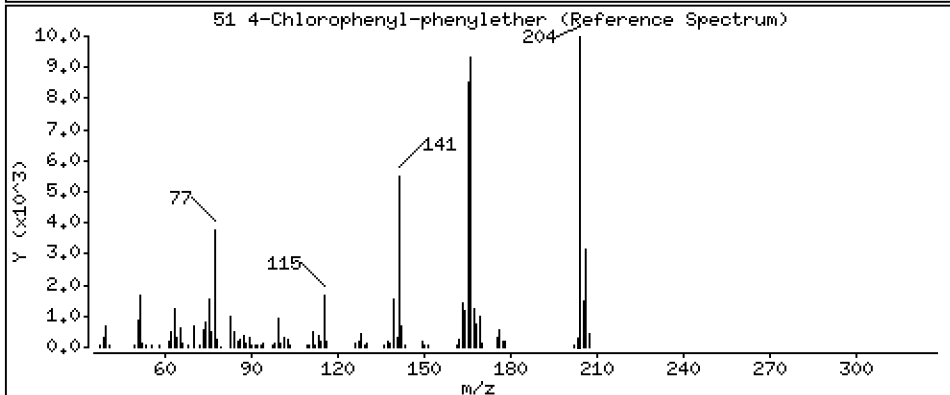
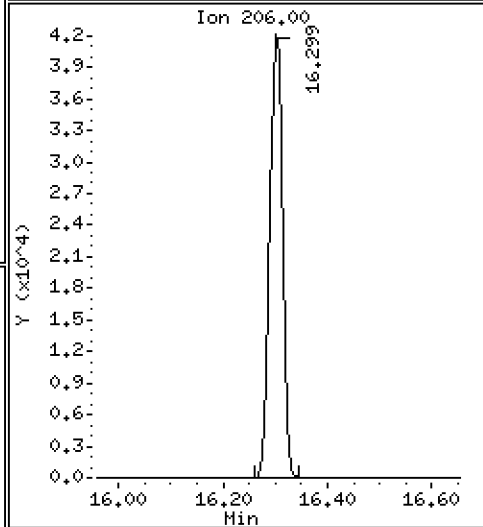
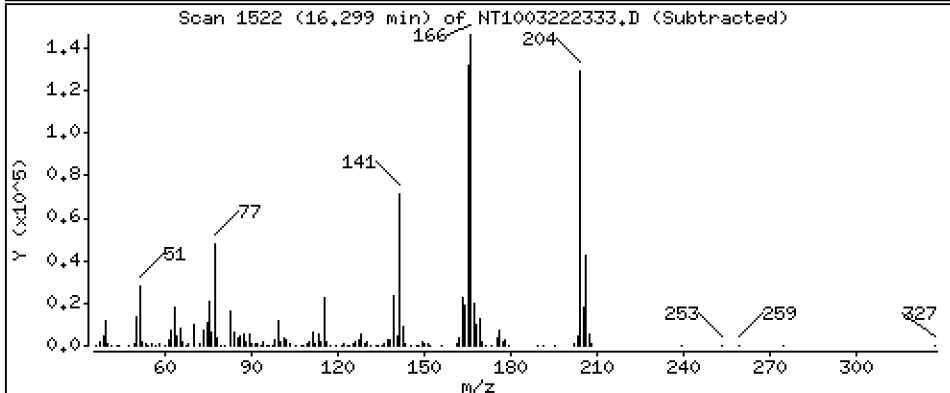
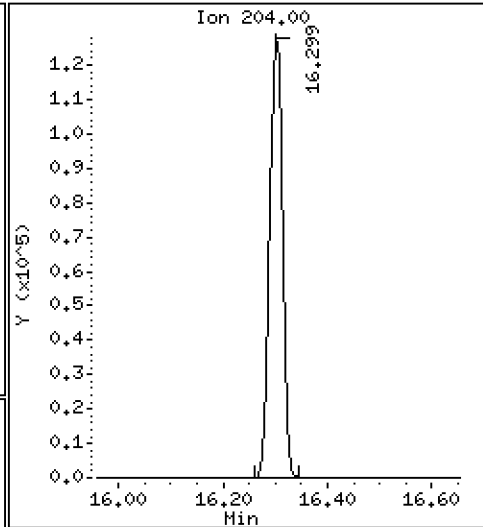
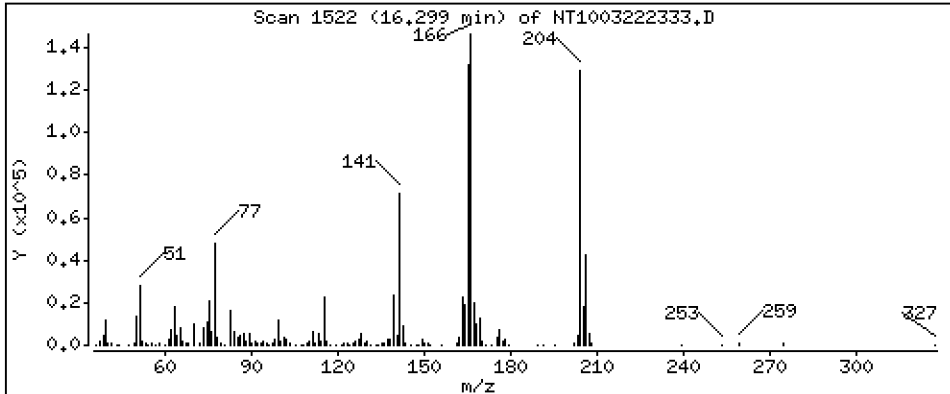
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 5,008 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

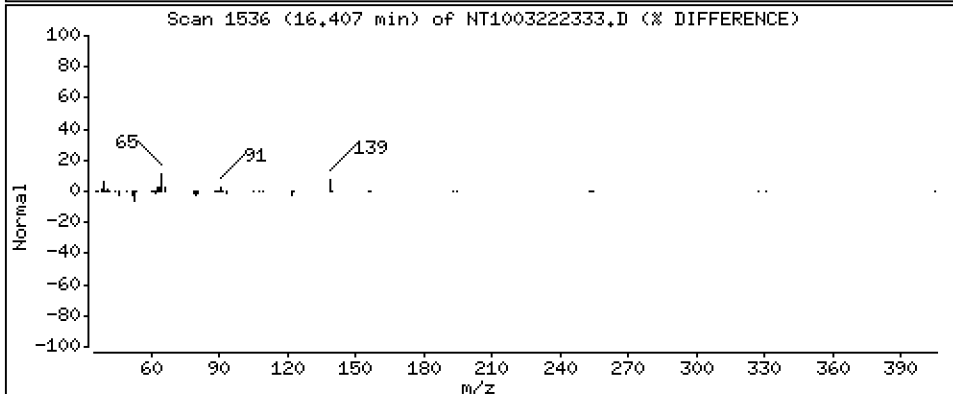
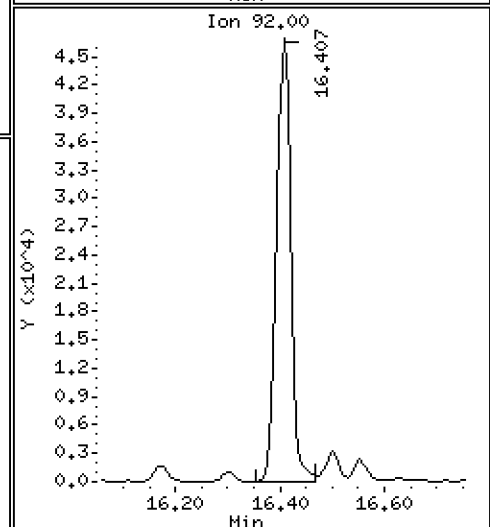
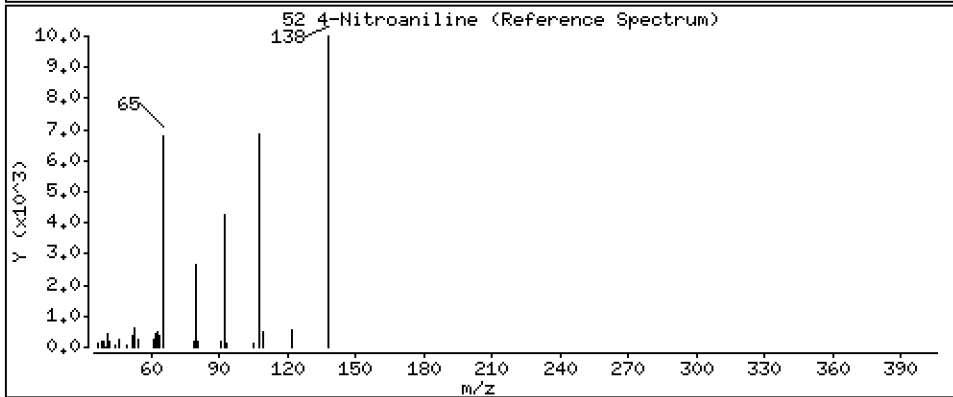
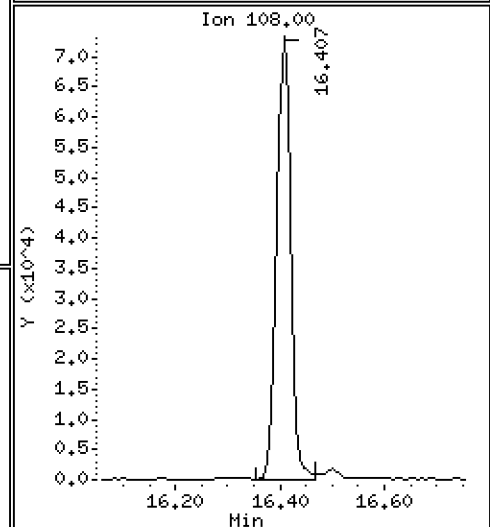
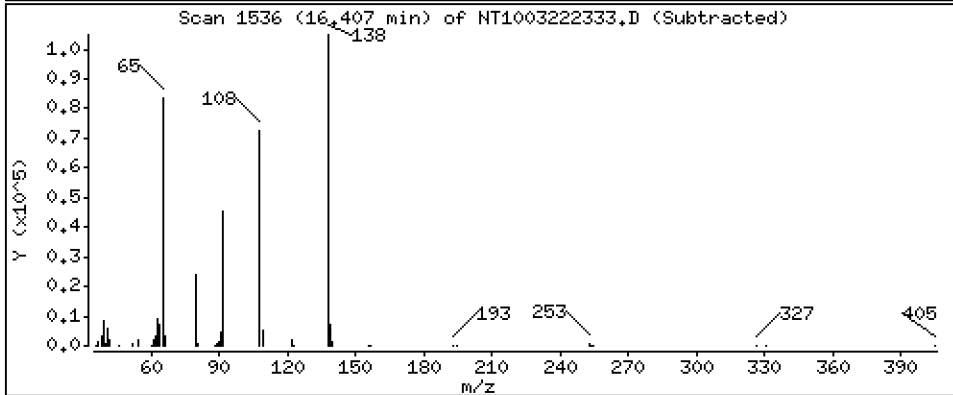
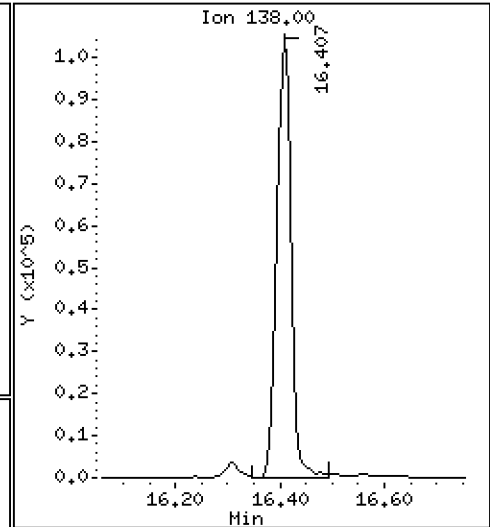
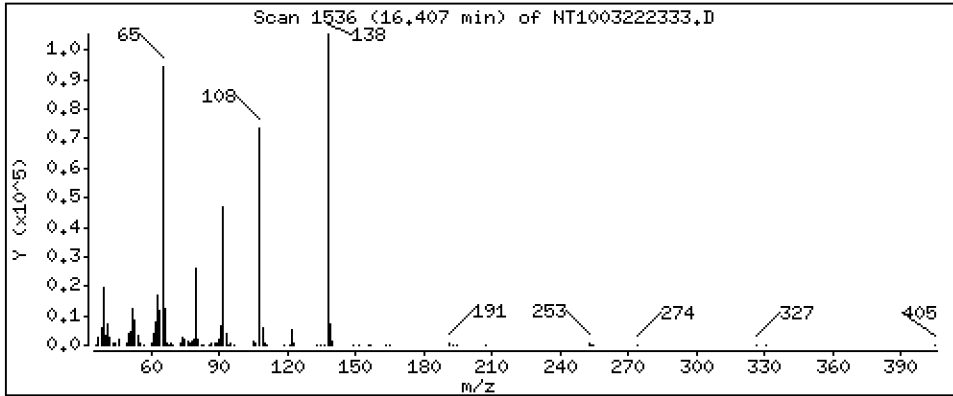
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 10,87 ug/mL





Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

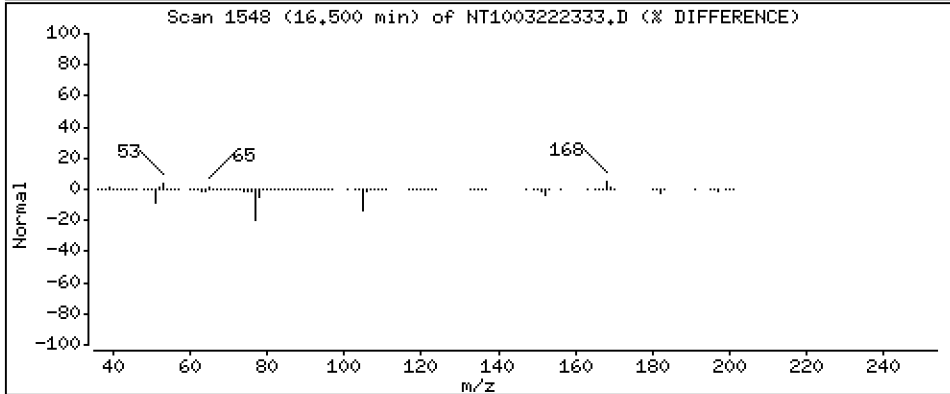
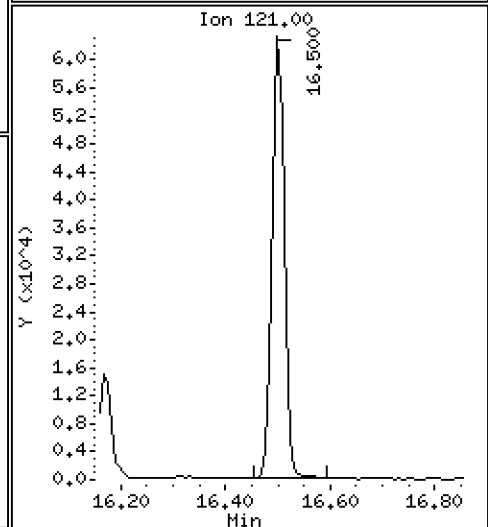
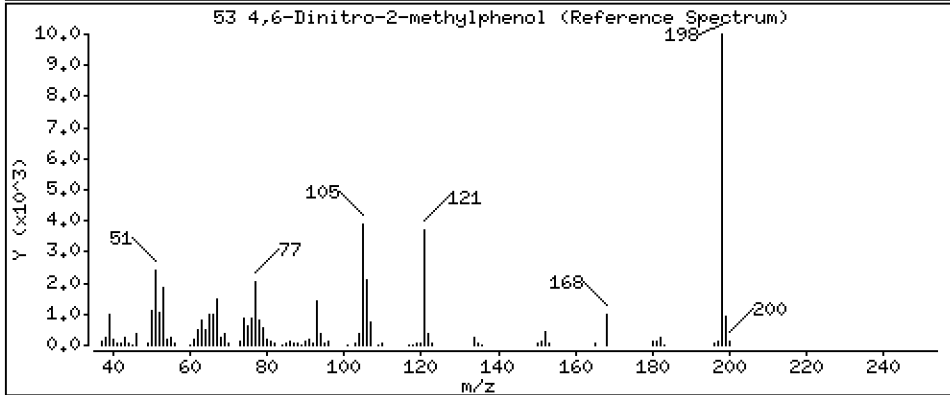
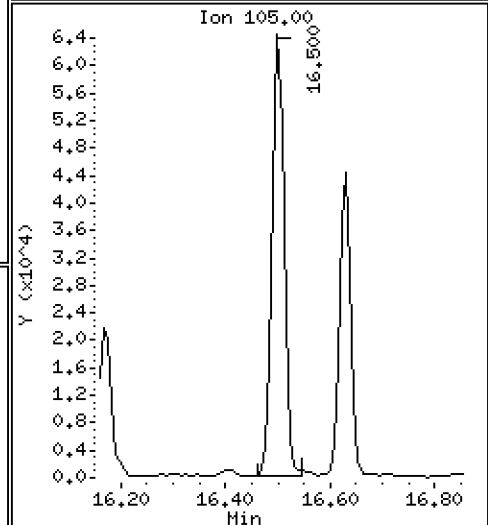
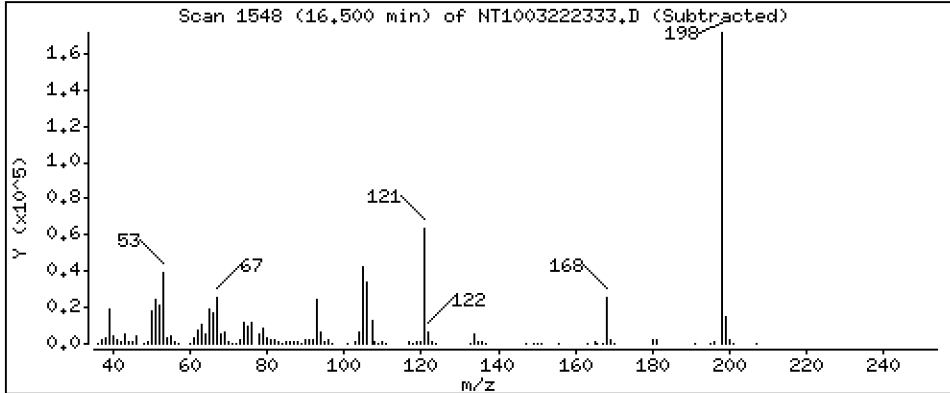
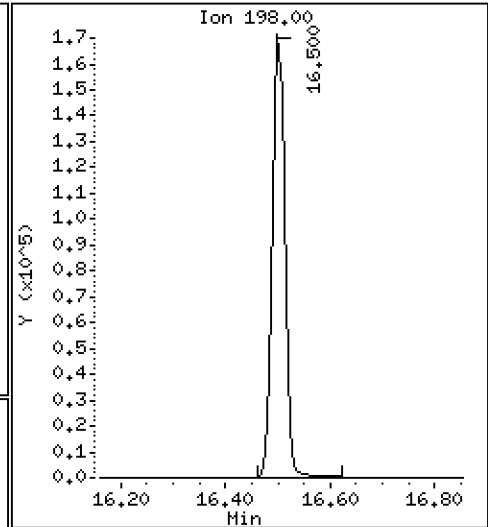
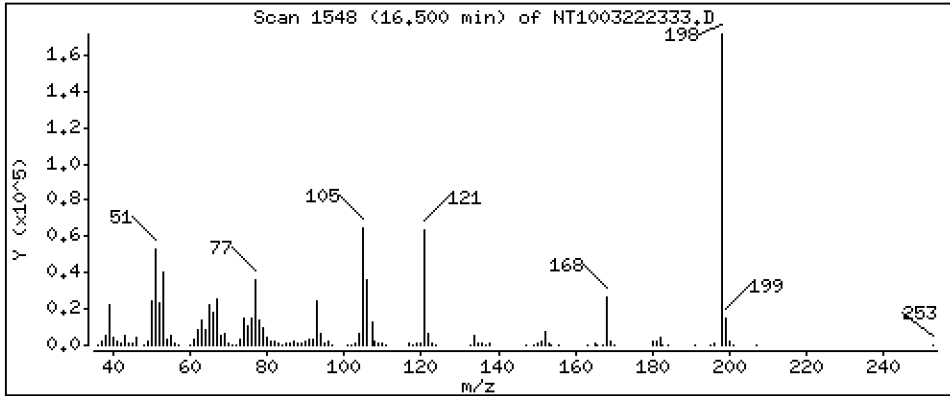
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 18,97 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

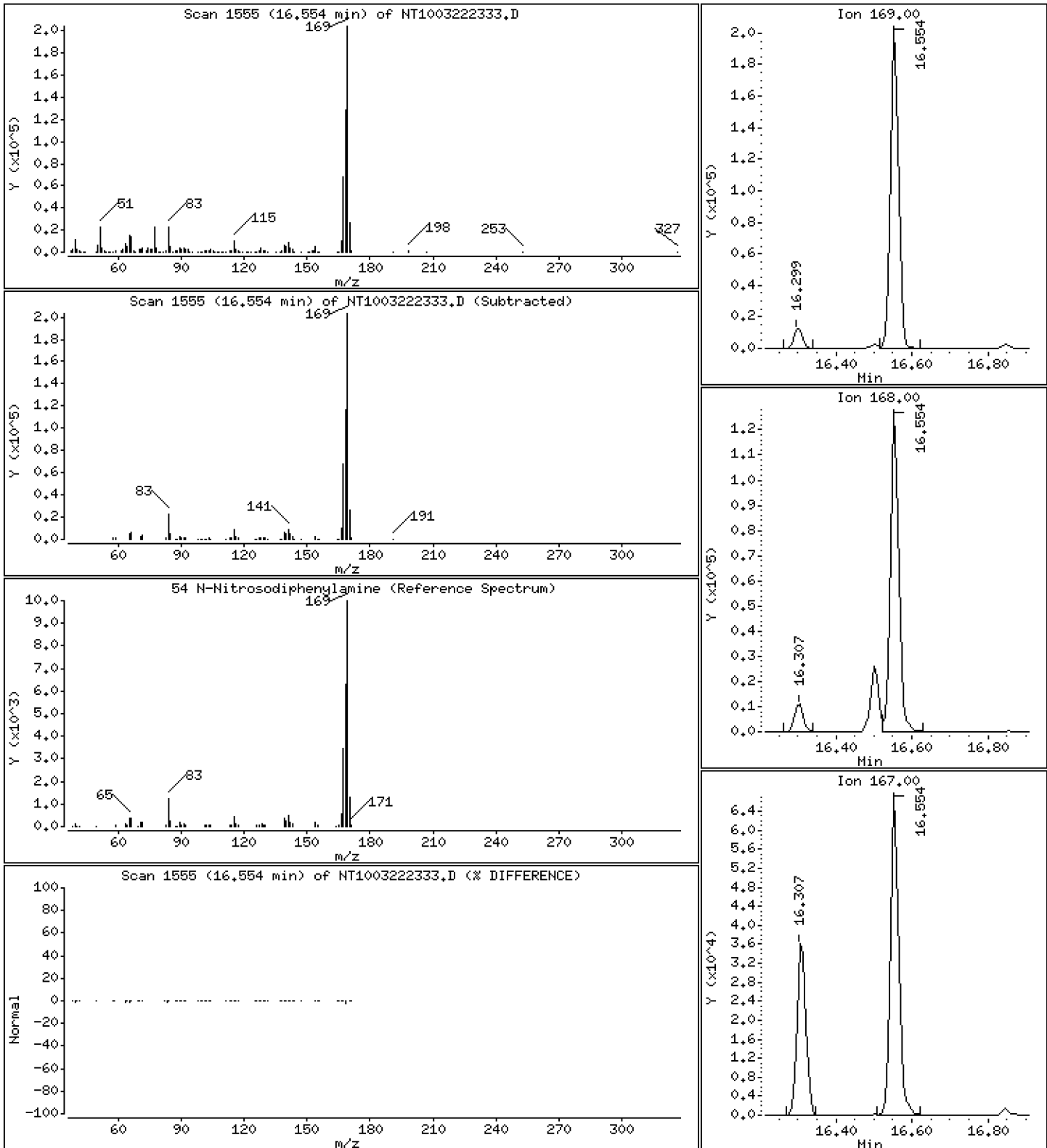
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,692 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

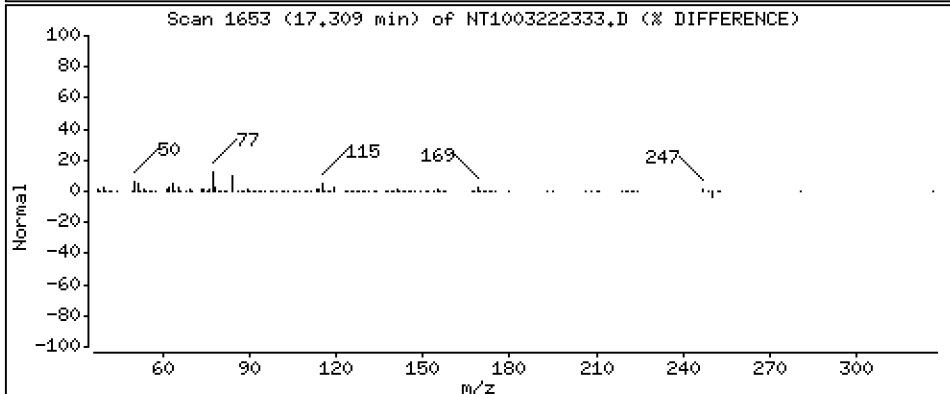
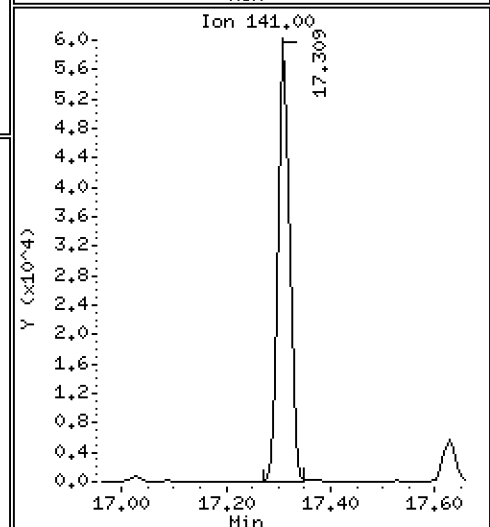
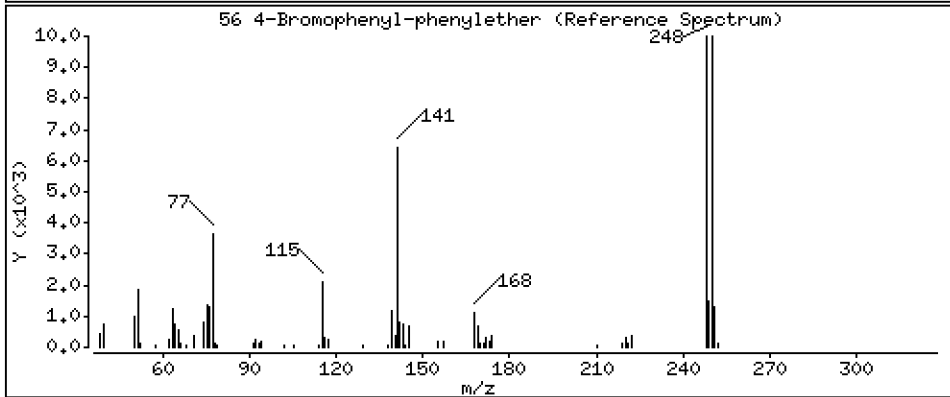
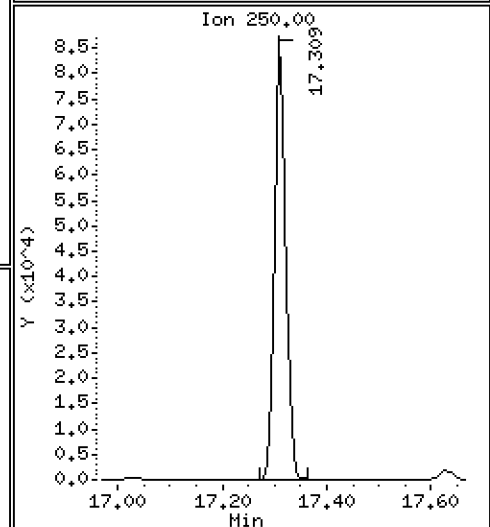
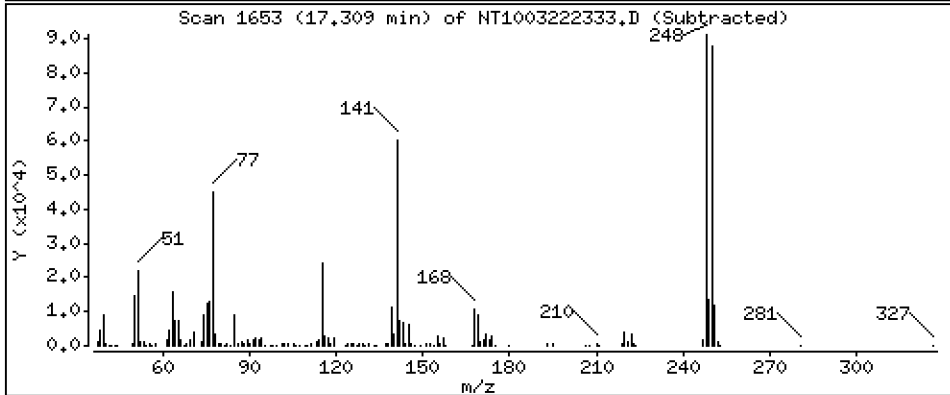
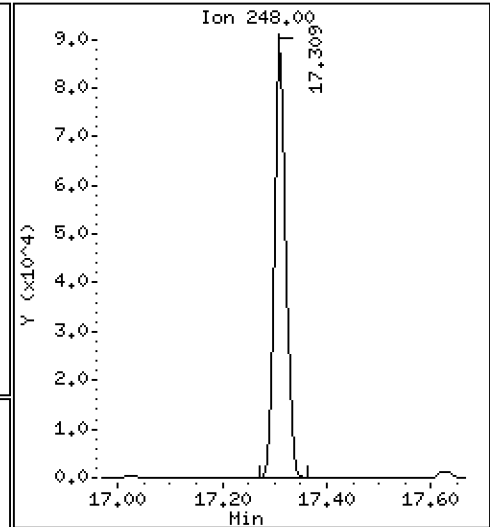
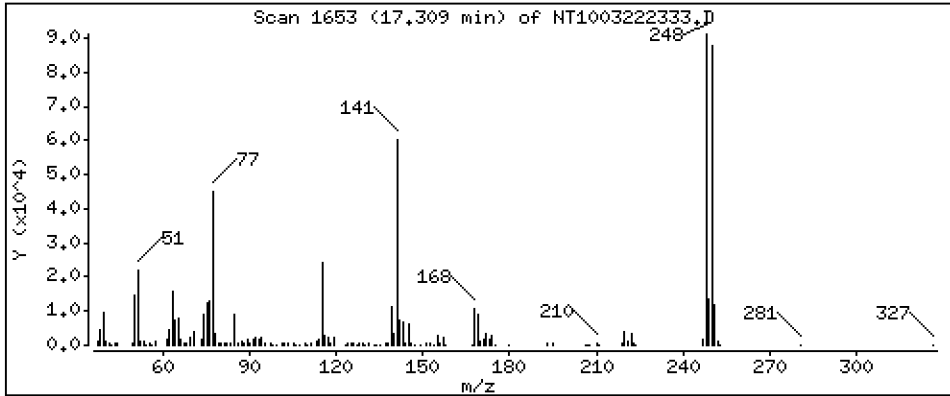
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,276 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

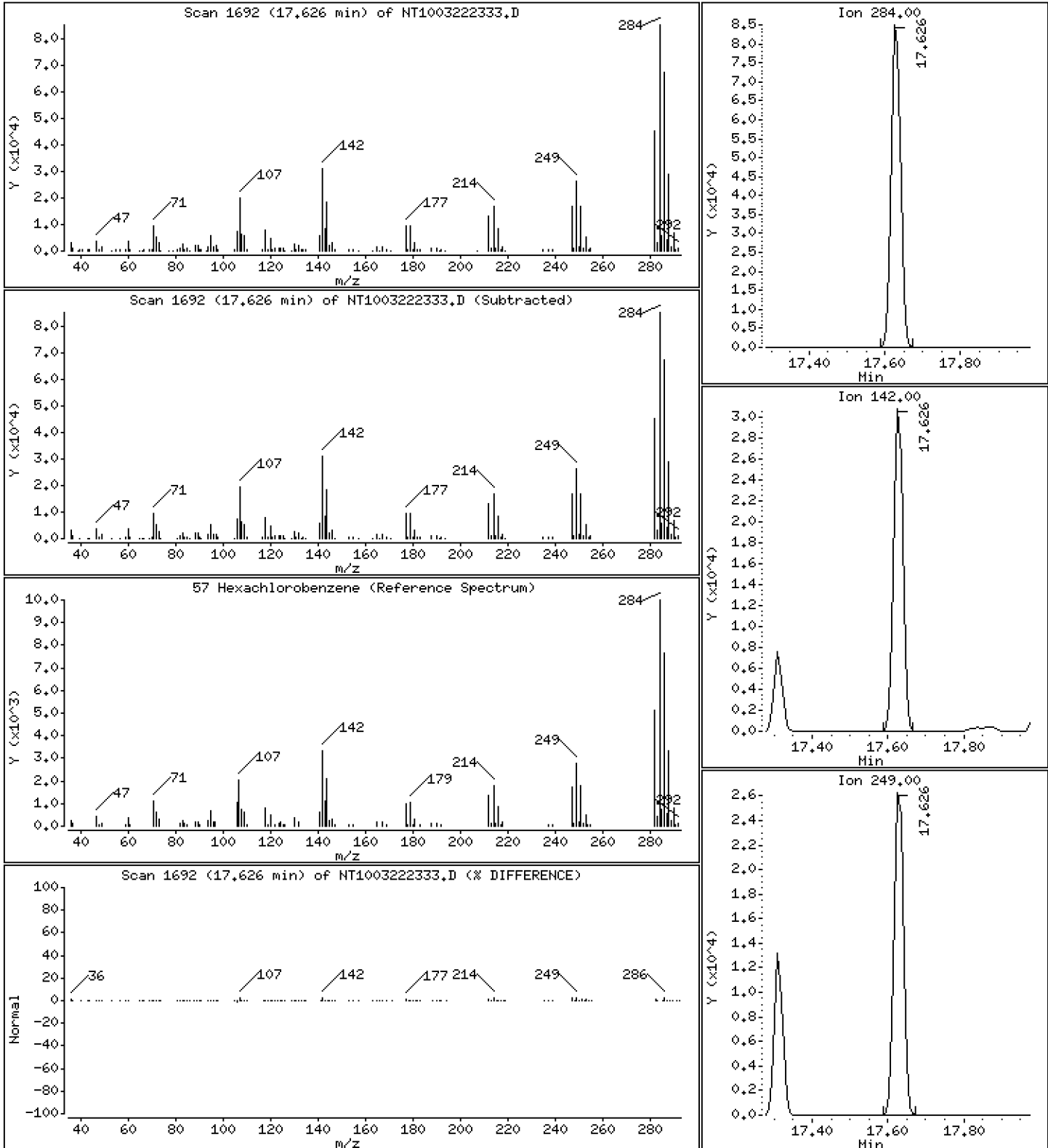
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 5,266 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

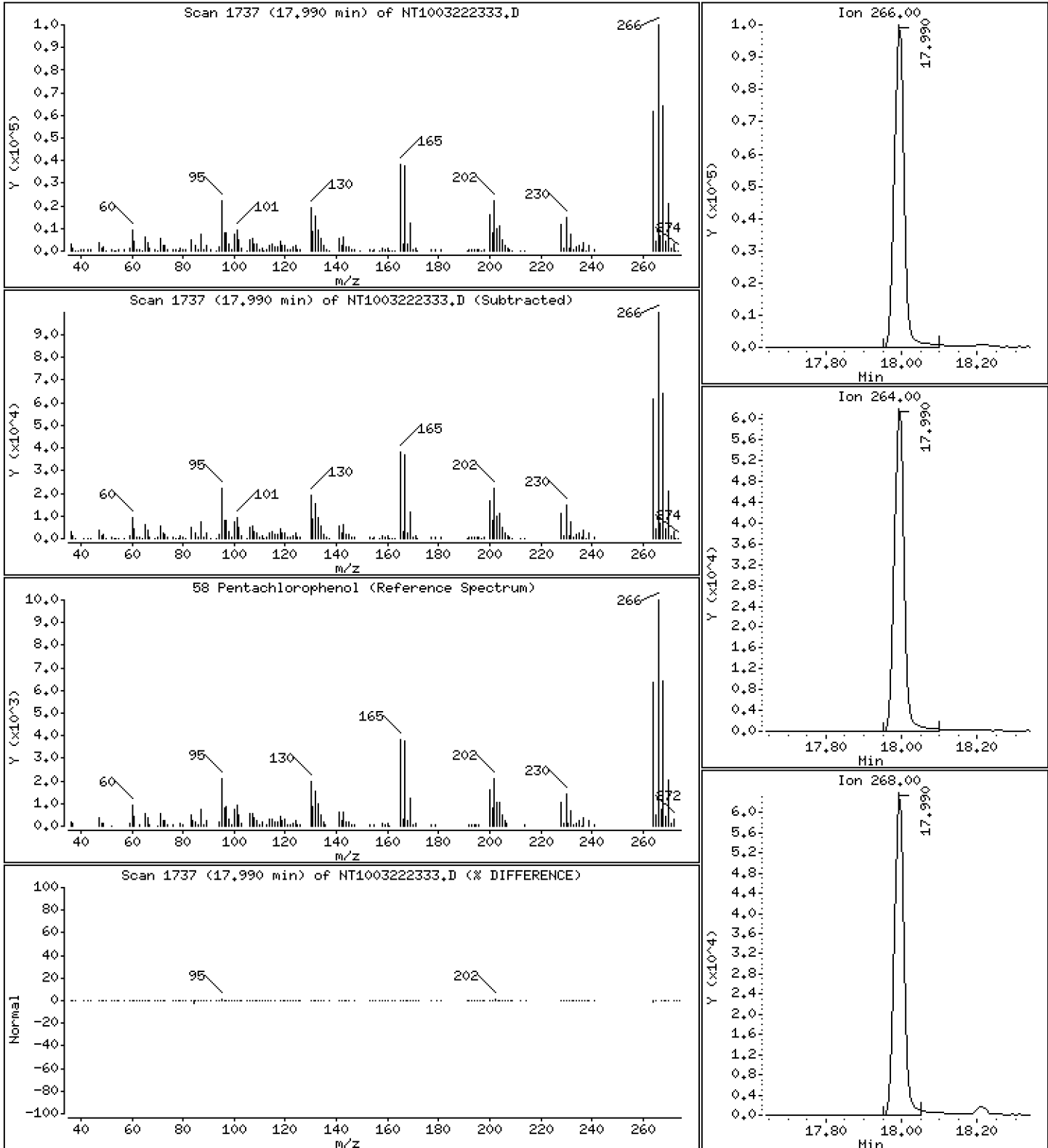
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 10,53 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

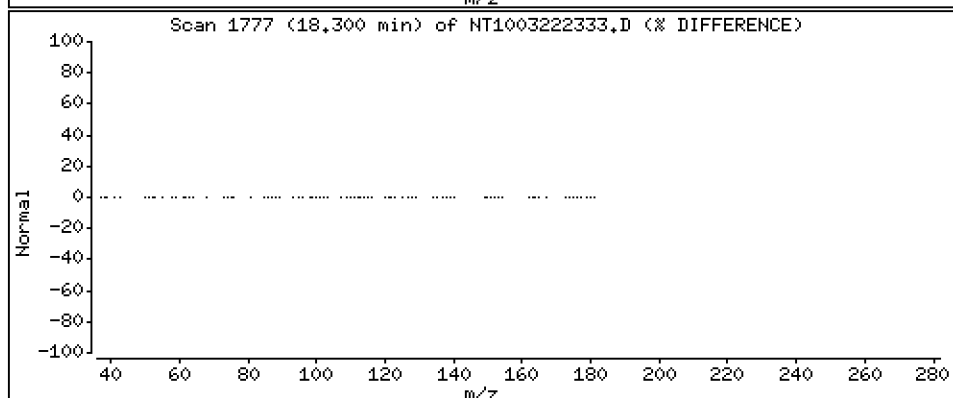
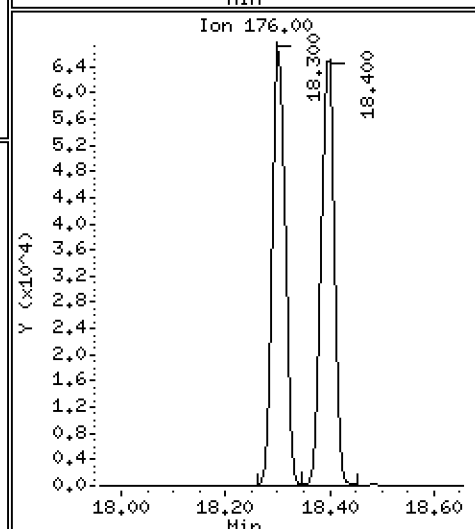
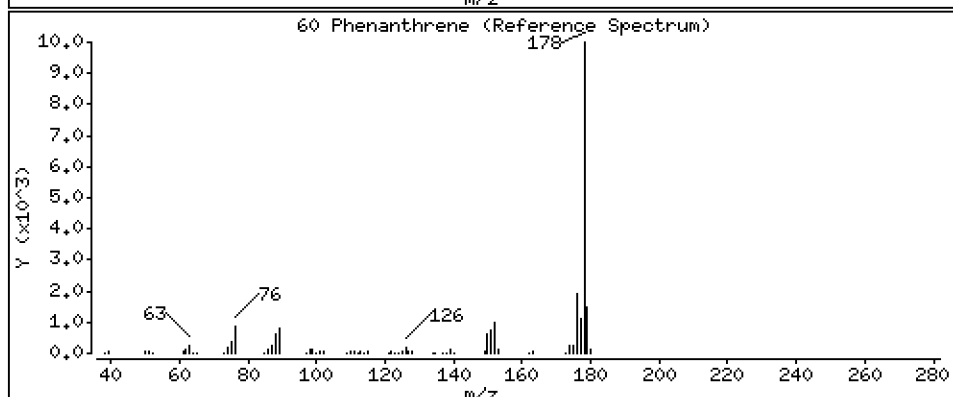
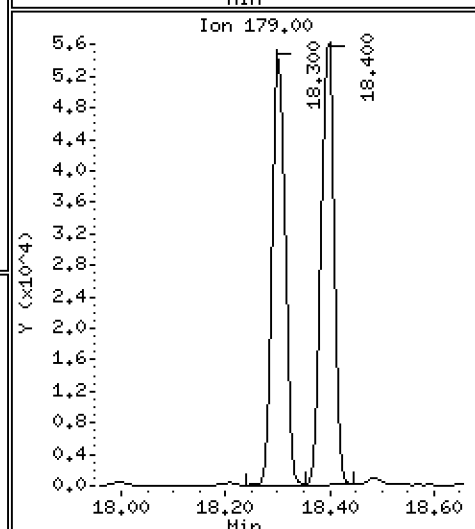
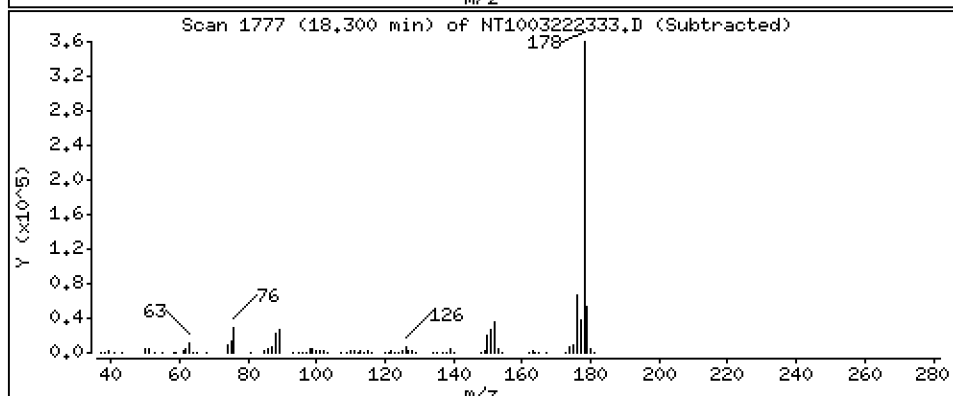
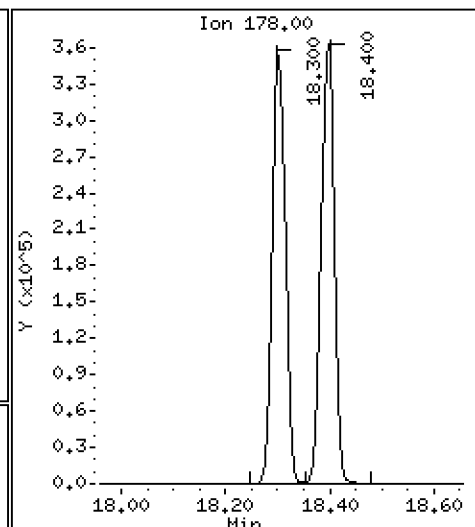
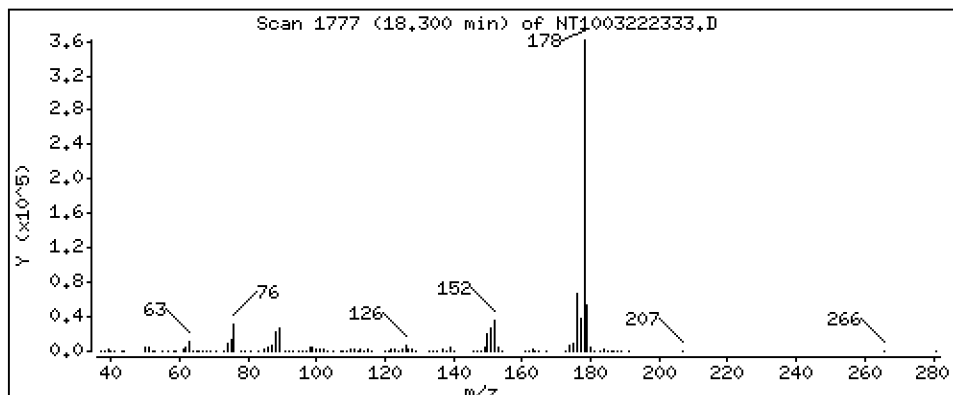
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,787 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

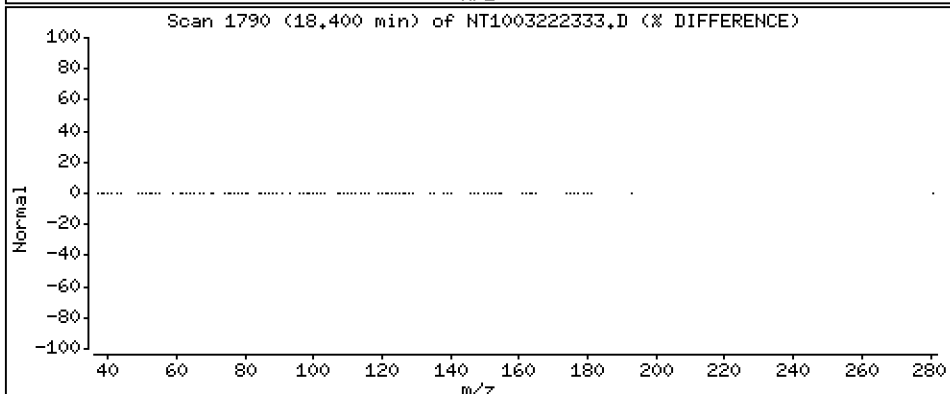
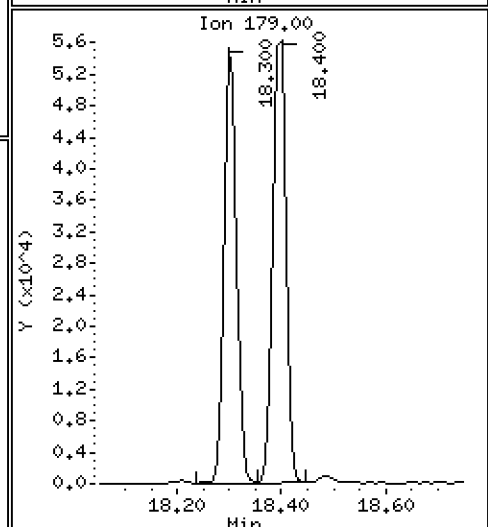
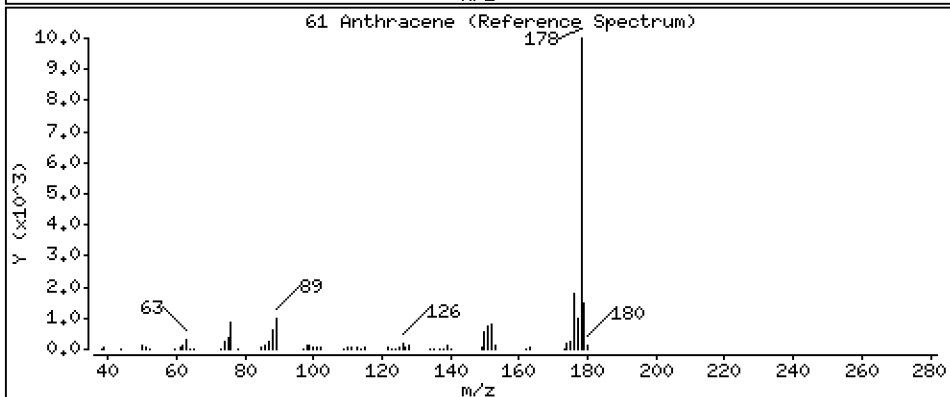
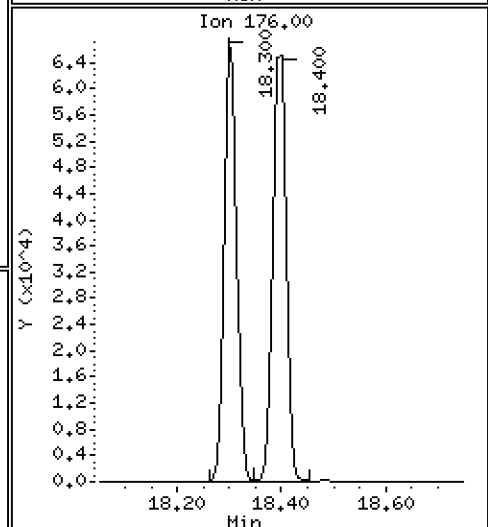
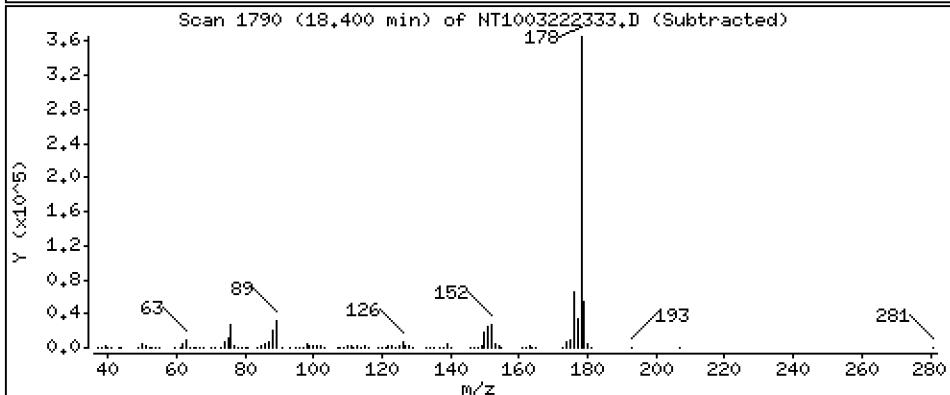
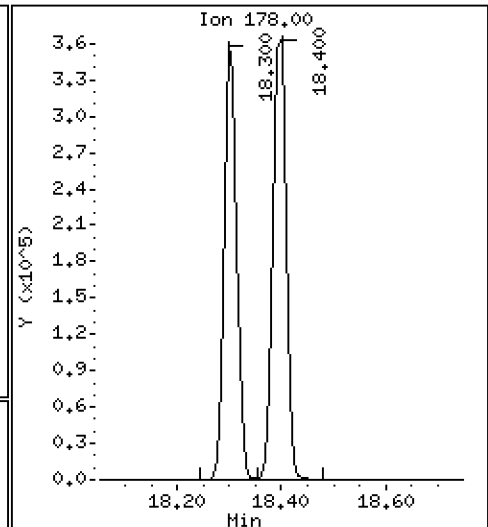
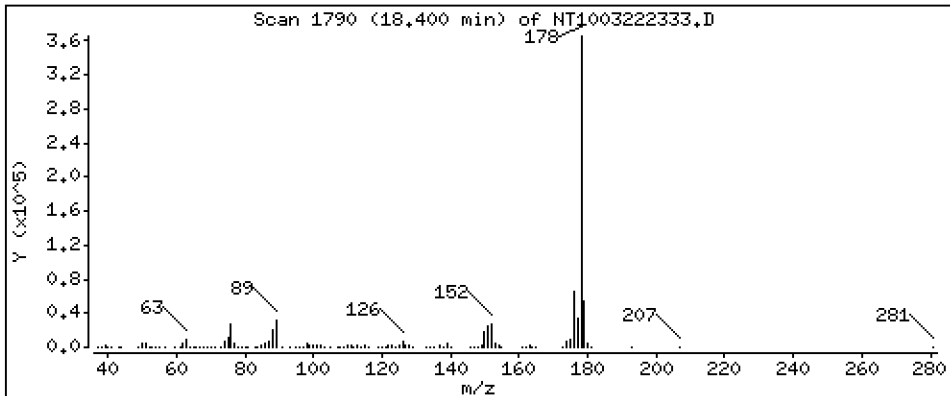
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 5,079 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

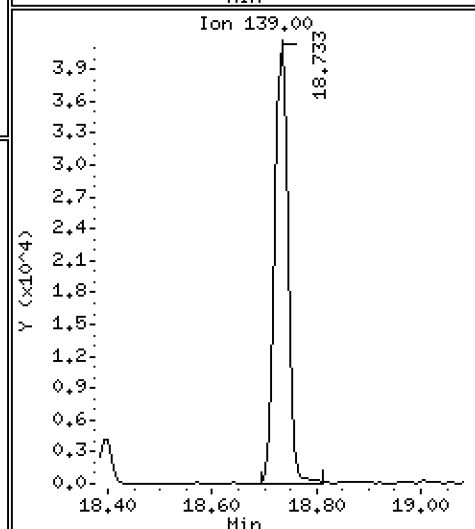
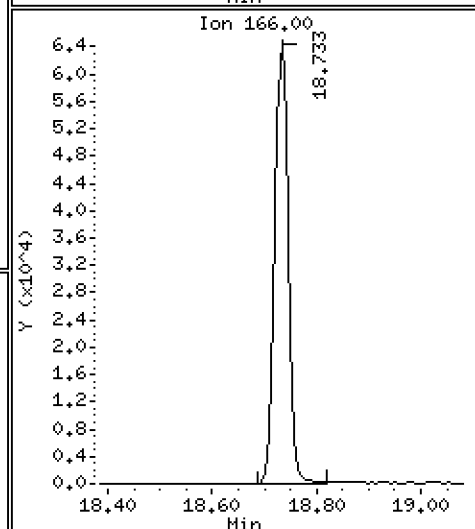
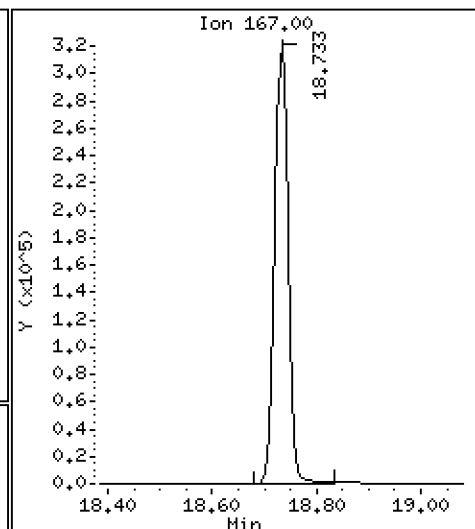
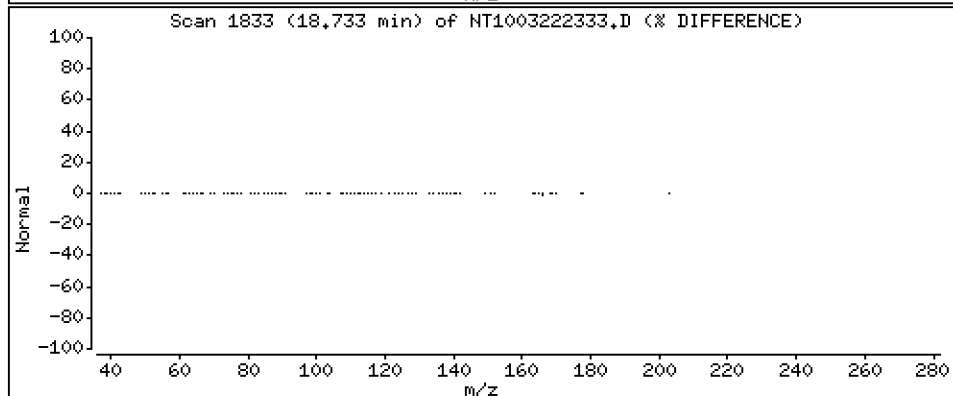
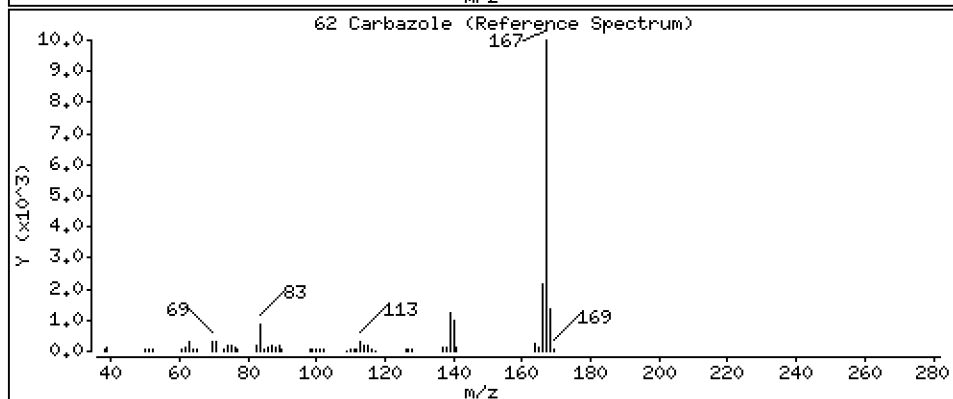
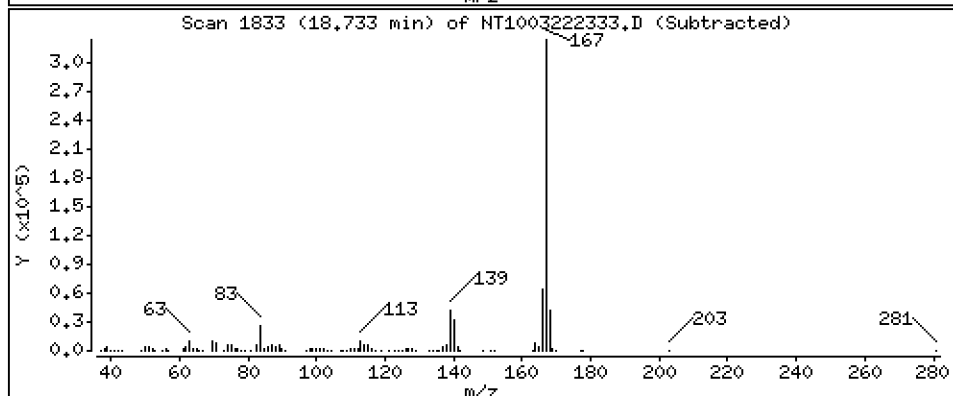
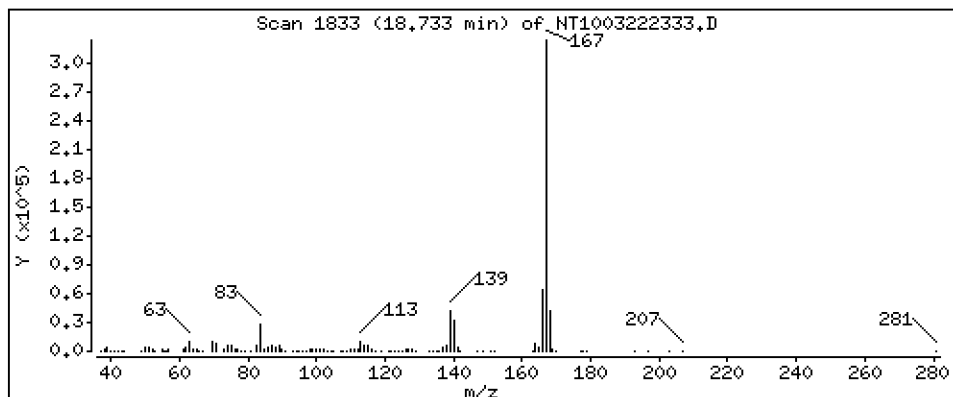
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 5,109 ug/mL





Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

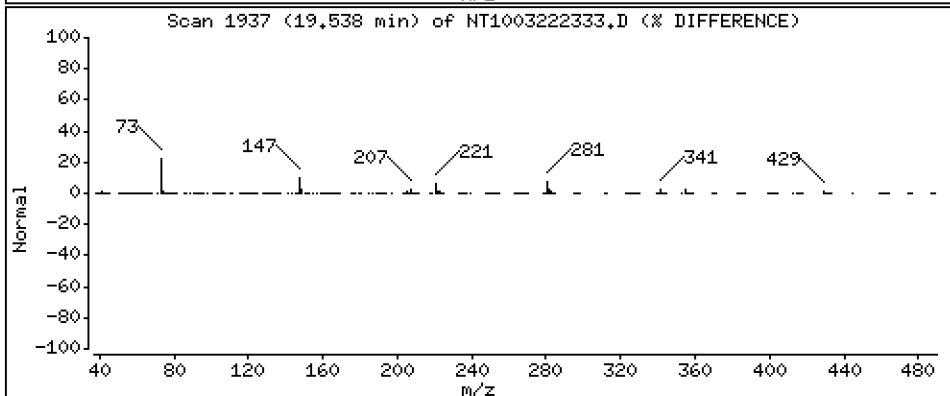
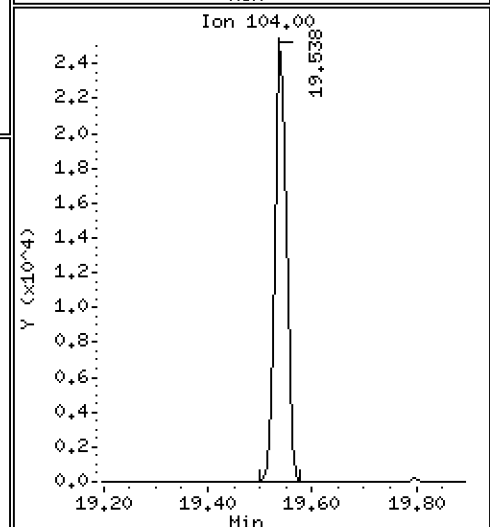
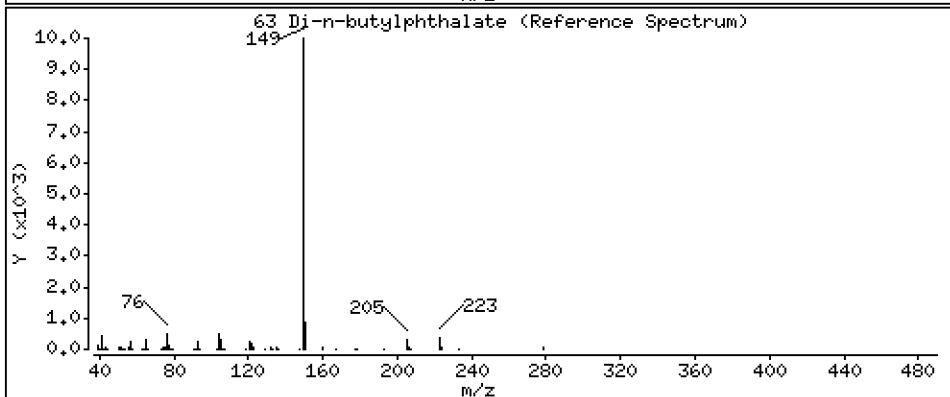
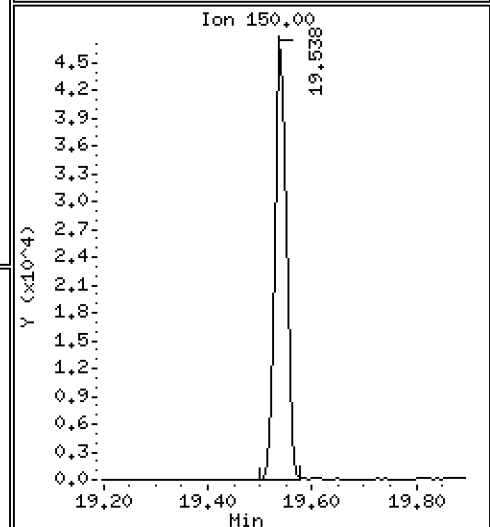
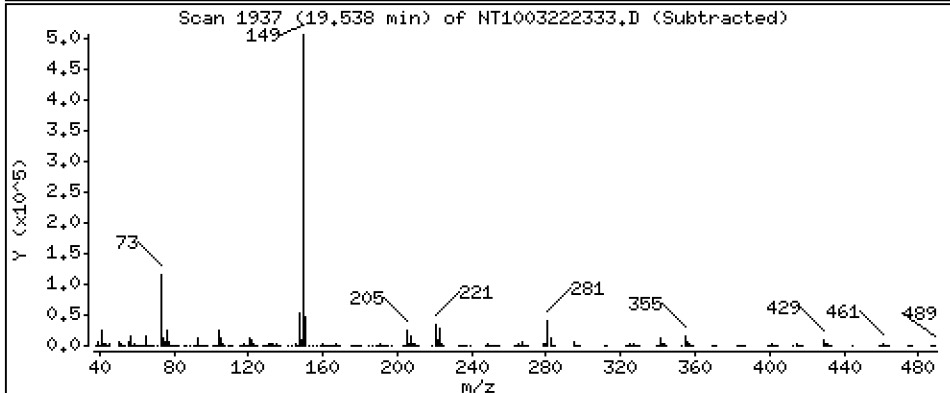
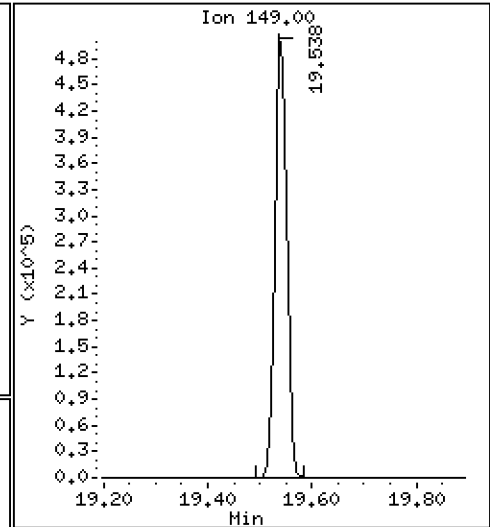
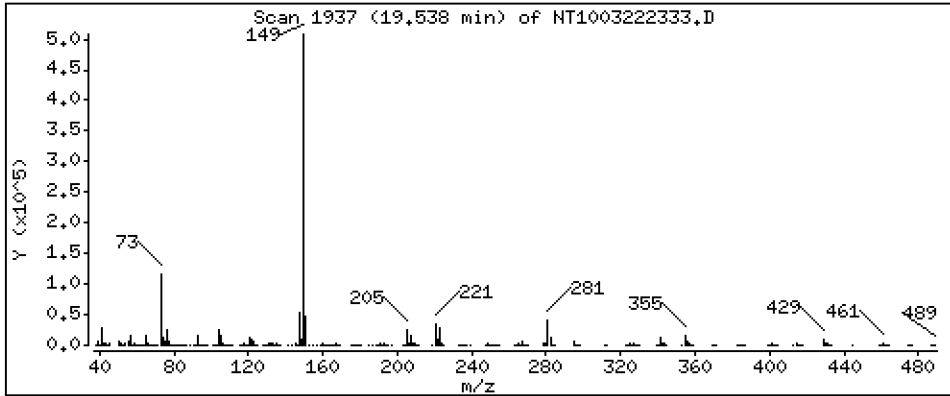
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 5,263 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

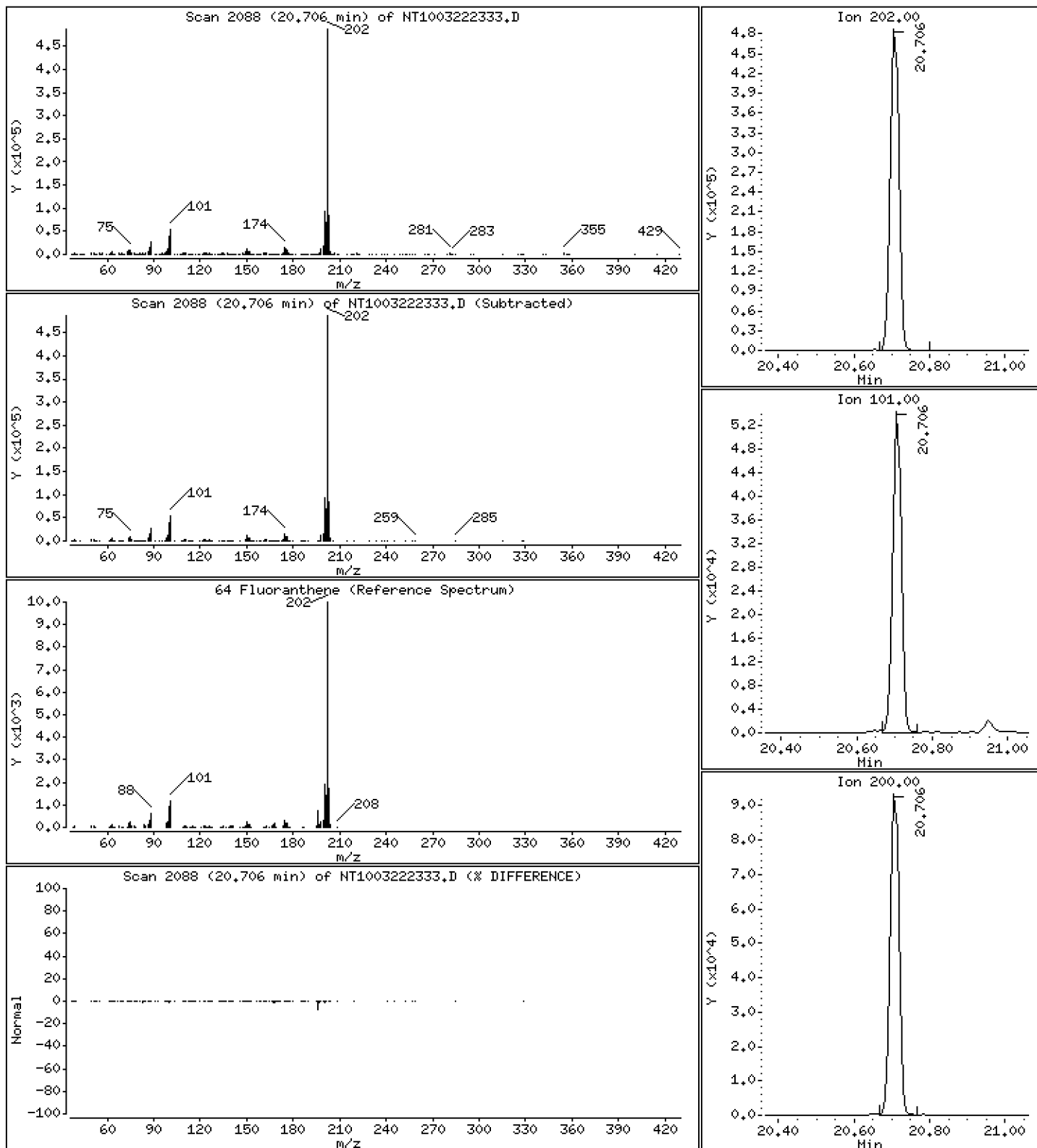
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,100 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

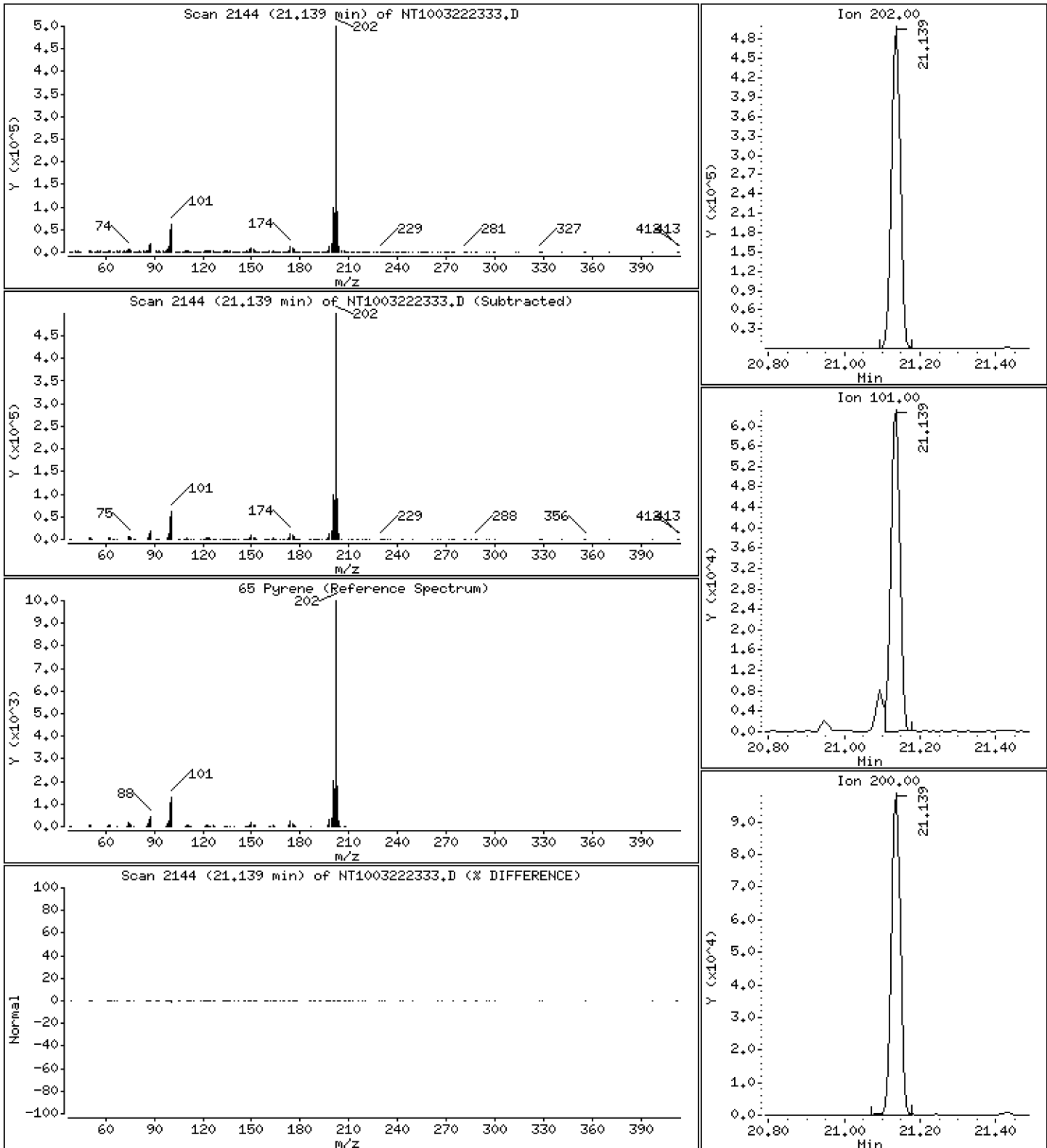
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,158 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

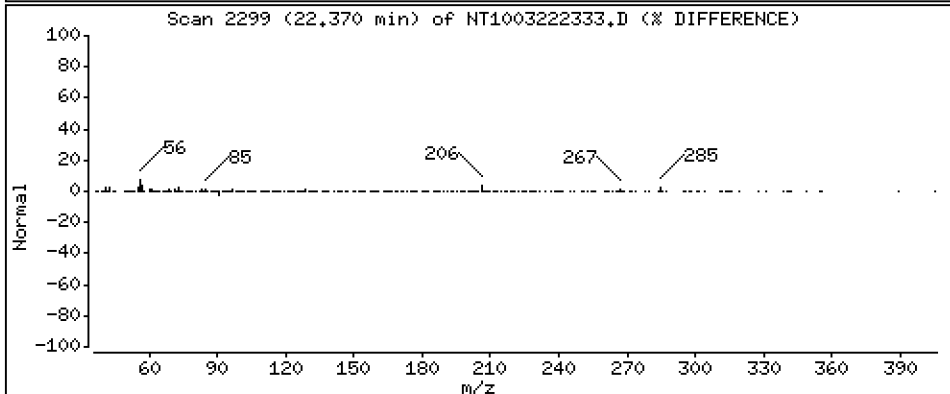
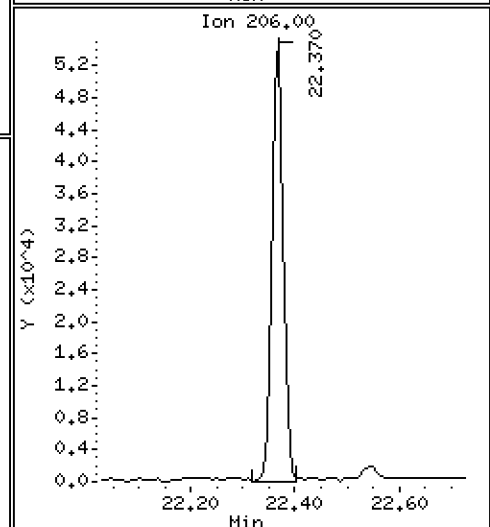
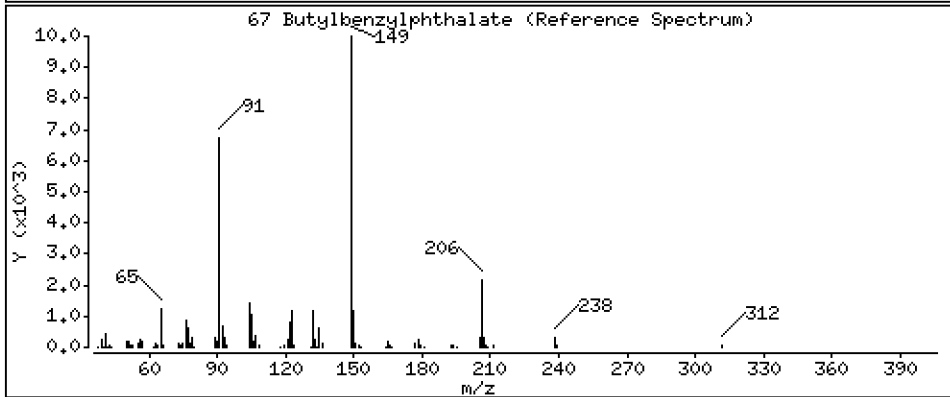
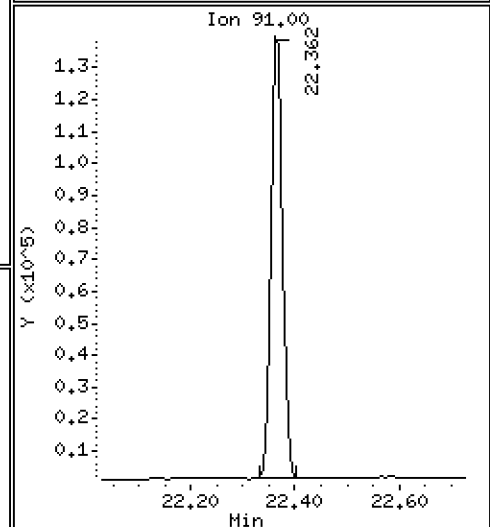
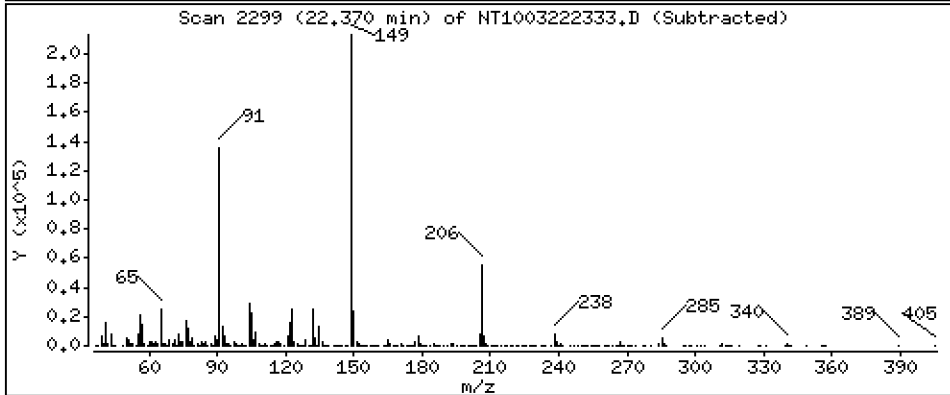
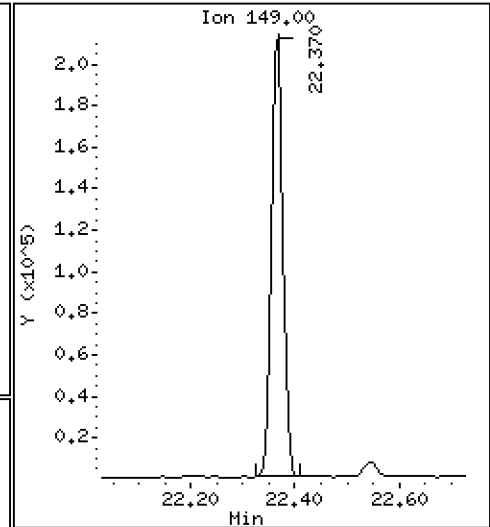
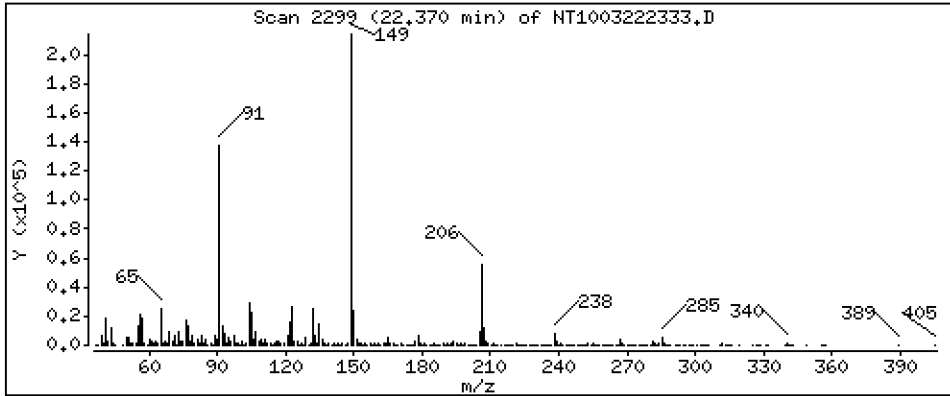
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,896 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

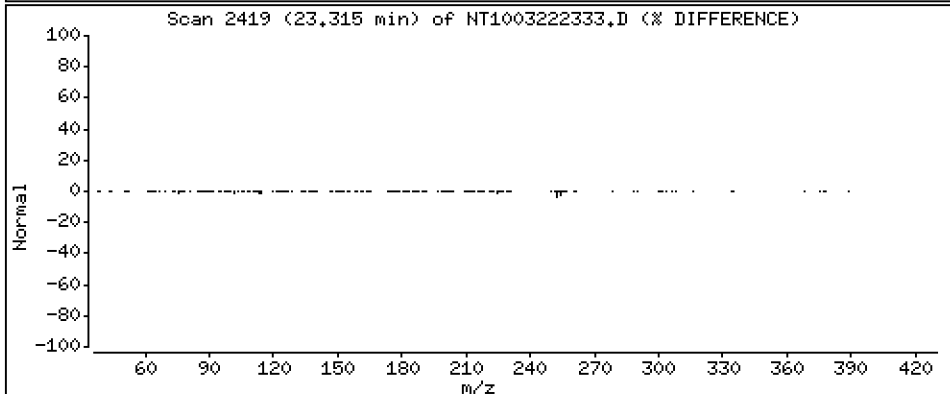
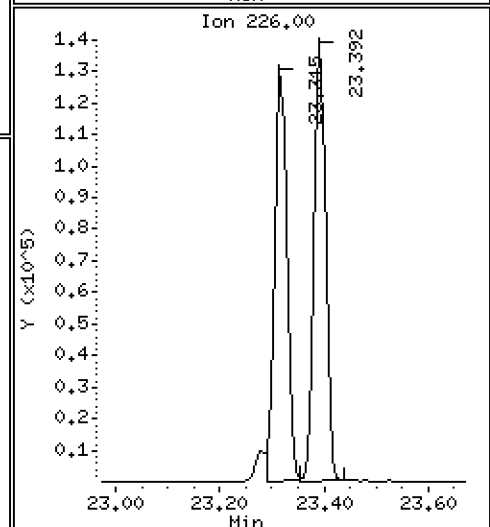
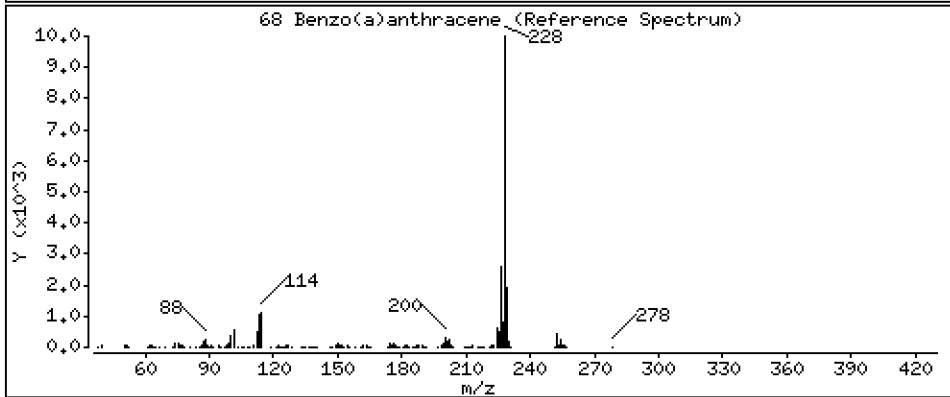
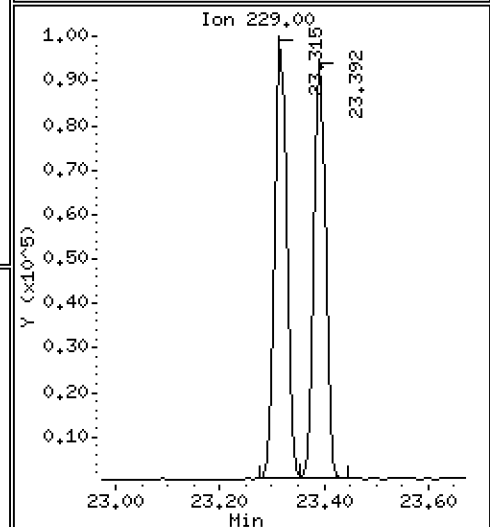
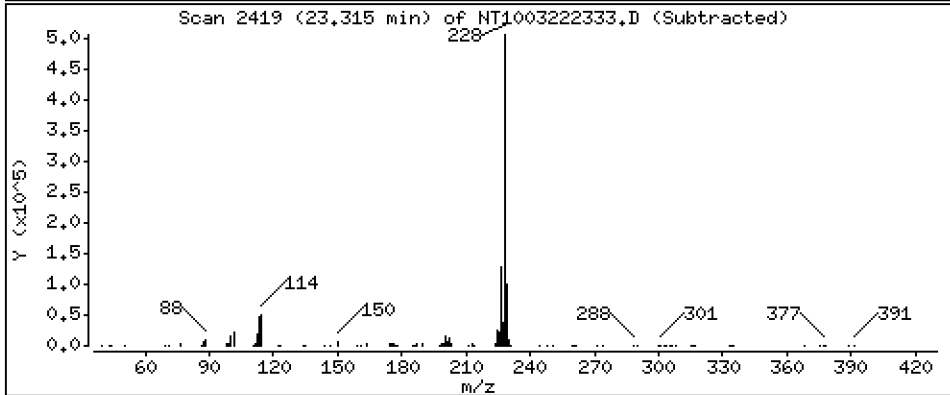
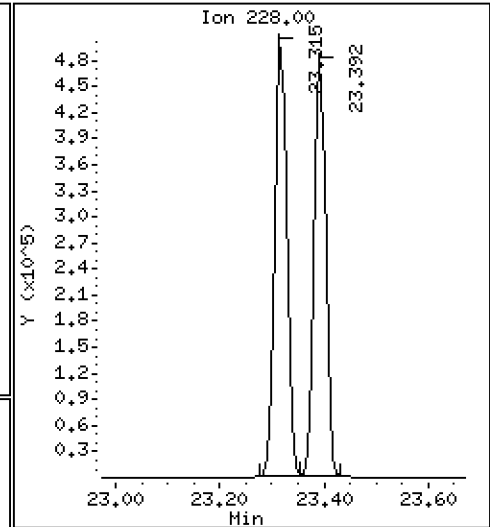
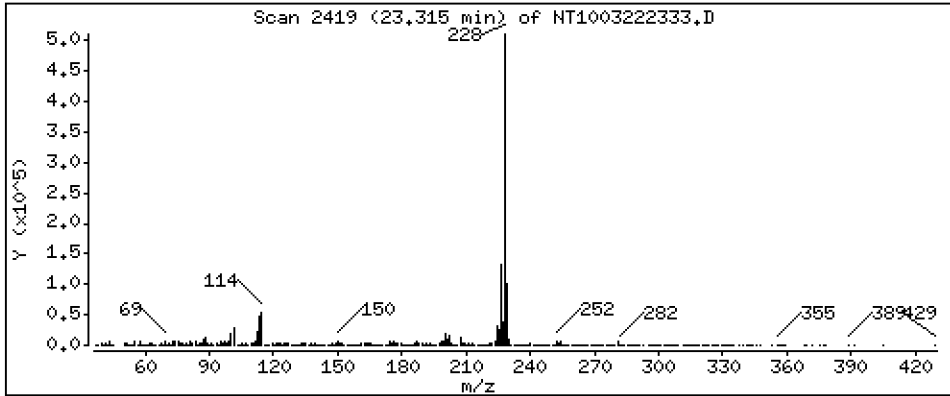
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,820 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

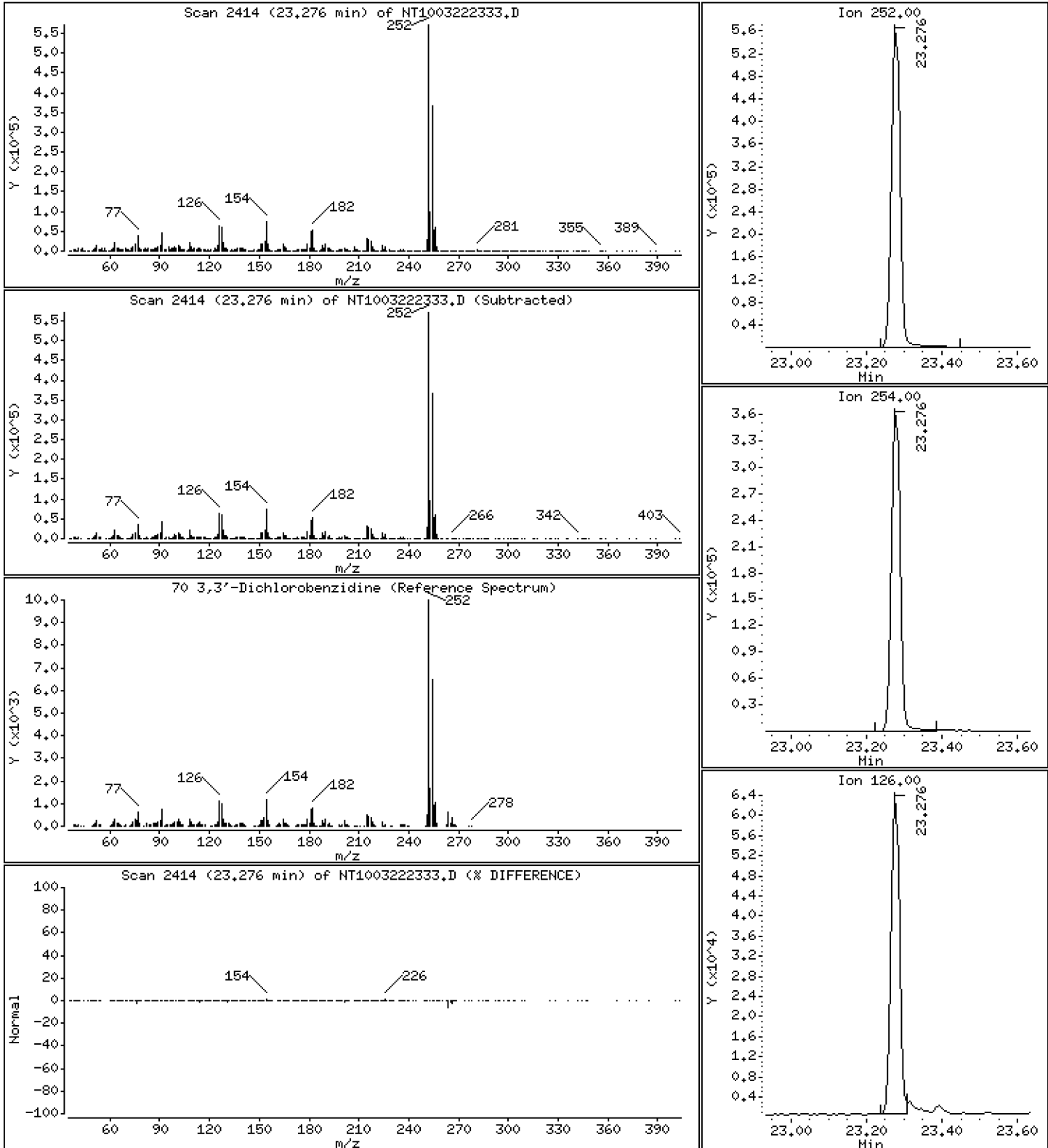
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 16,59 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

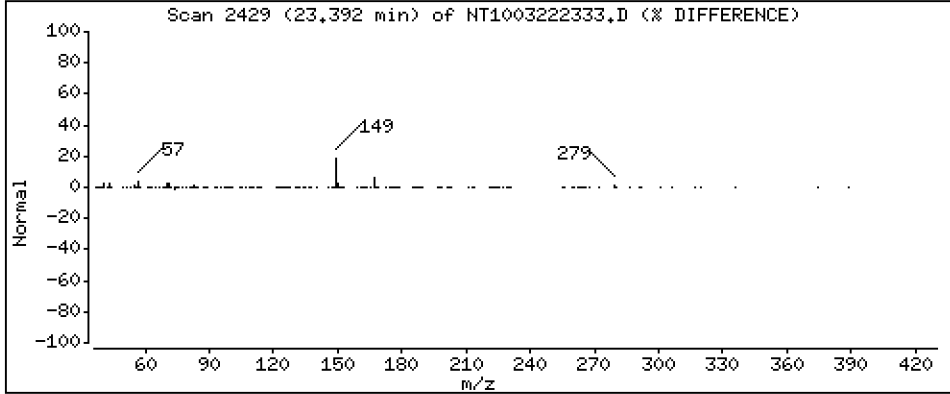
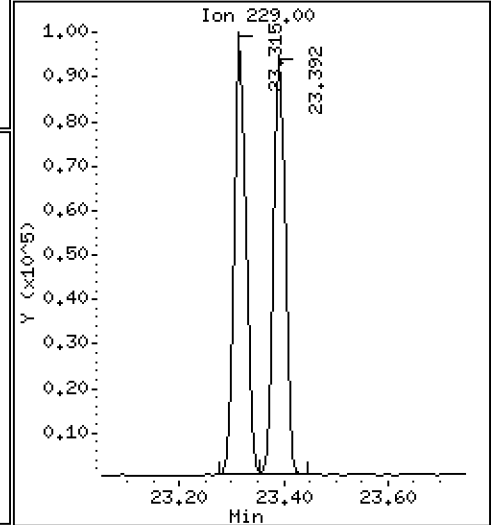
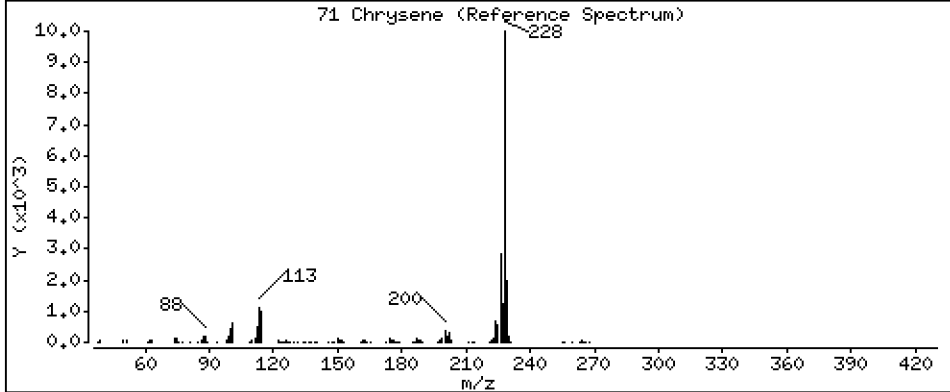
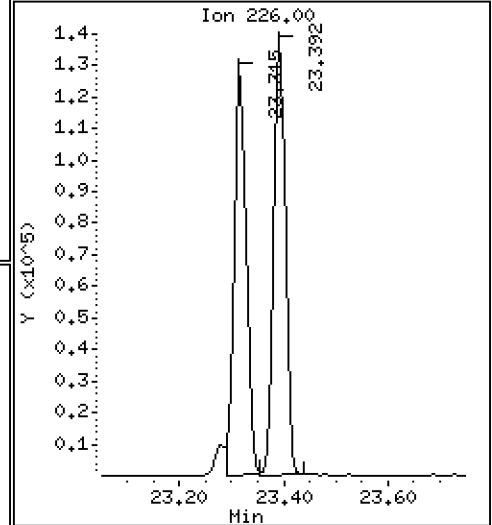
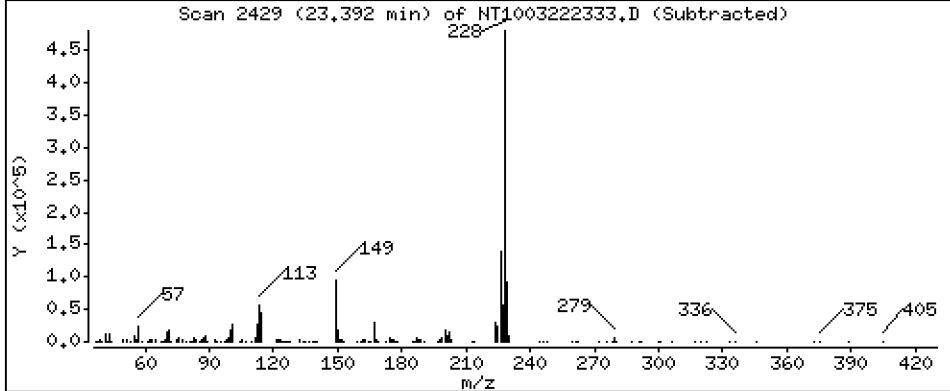
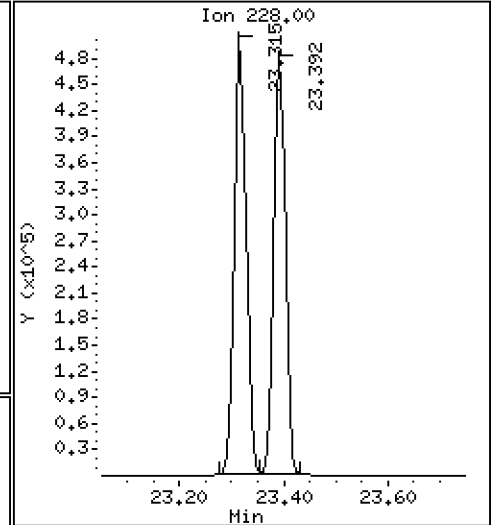
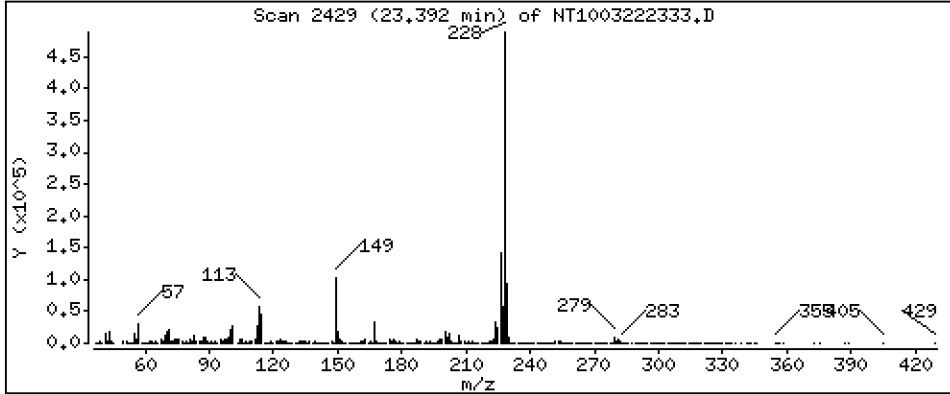
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,583 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

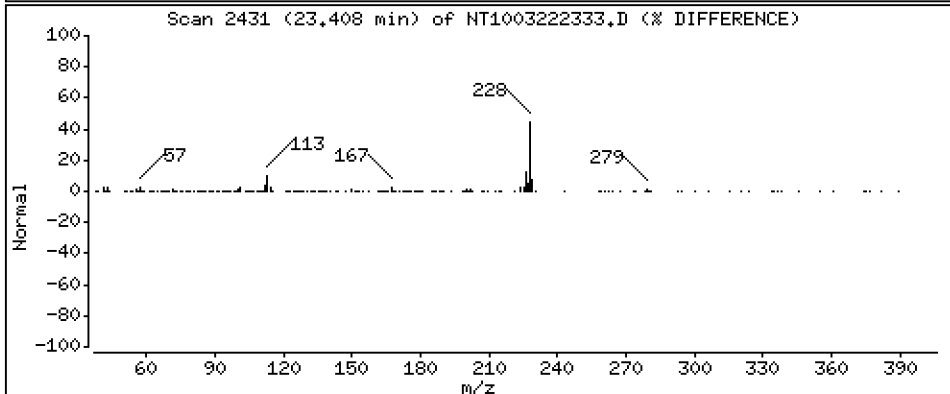
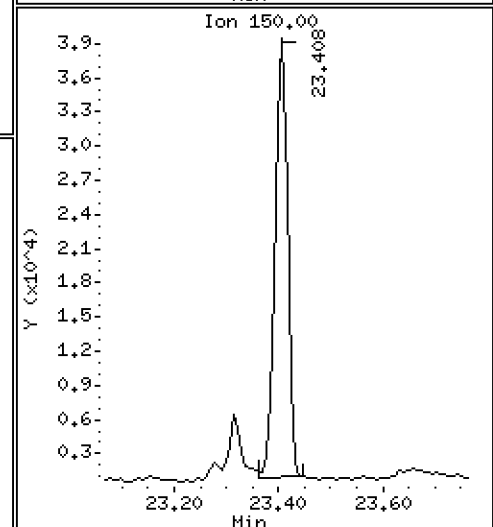
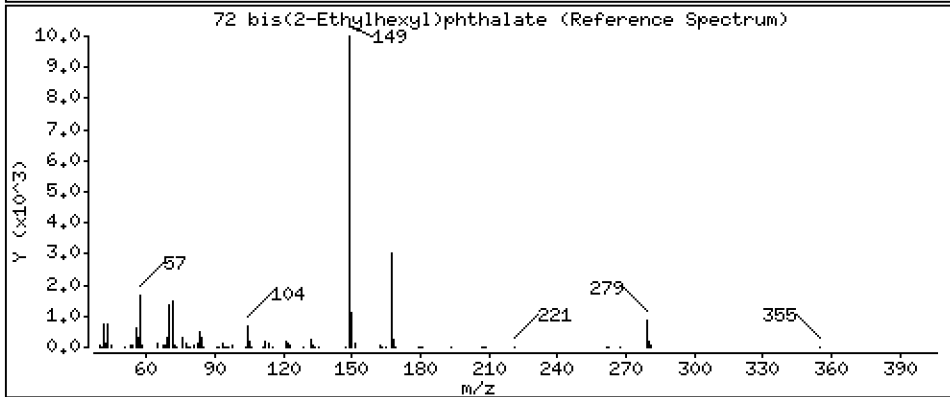
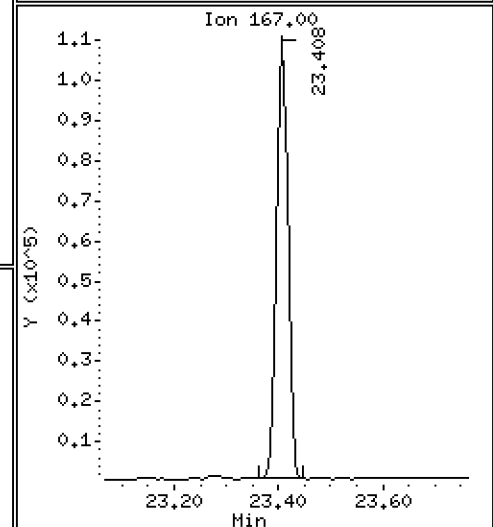
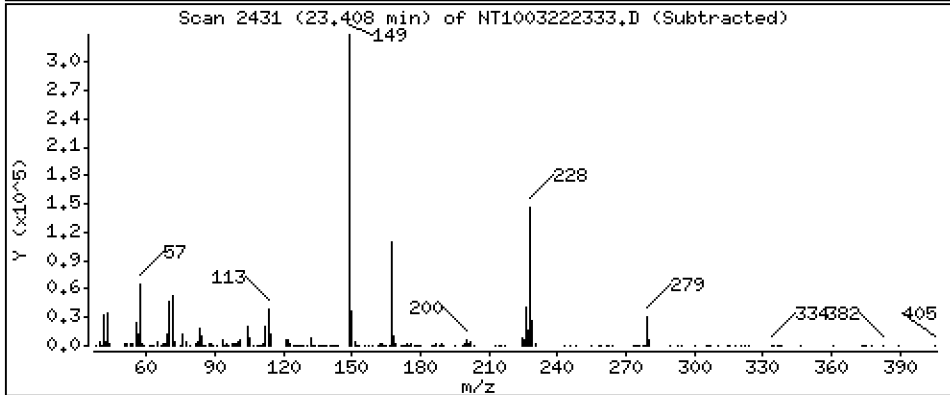
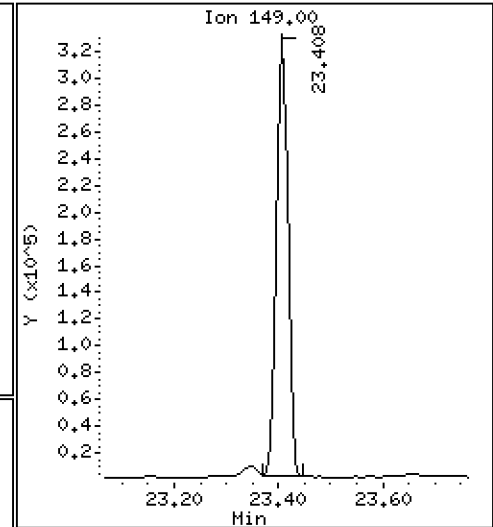
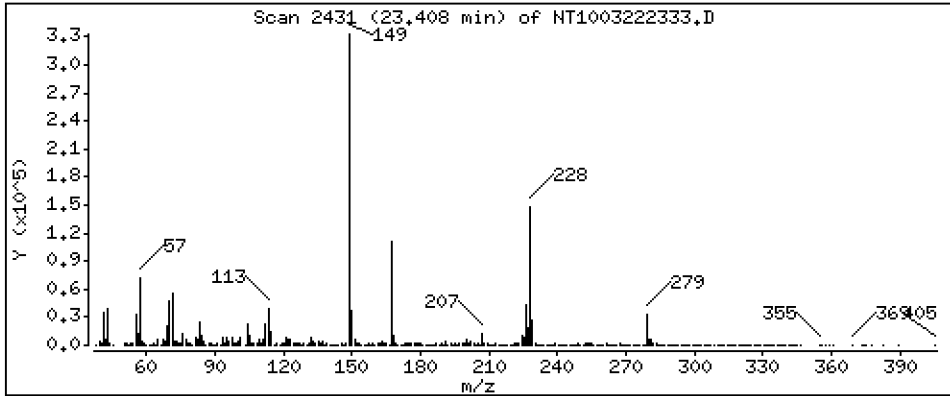
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,510 ug/mL





Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

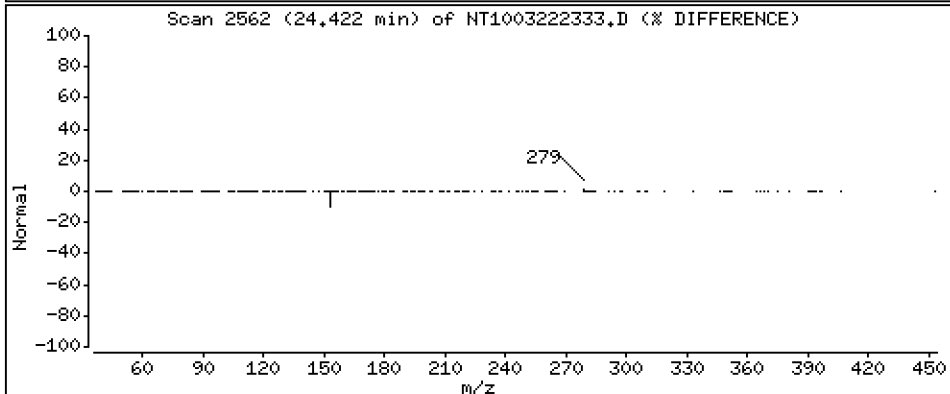
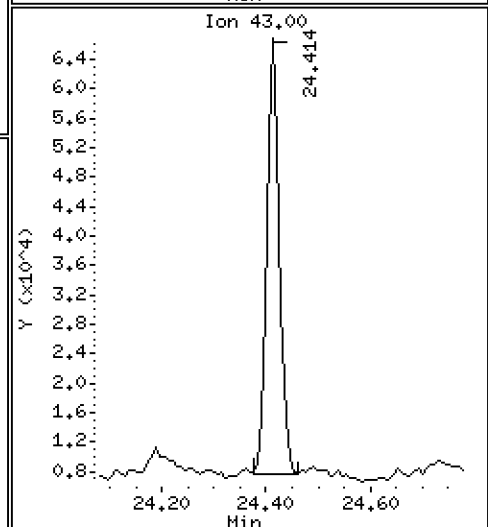
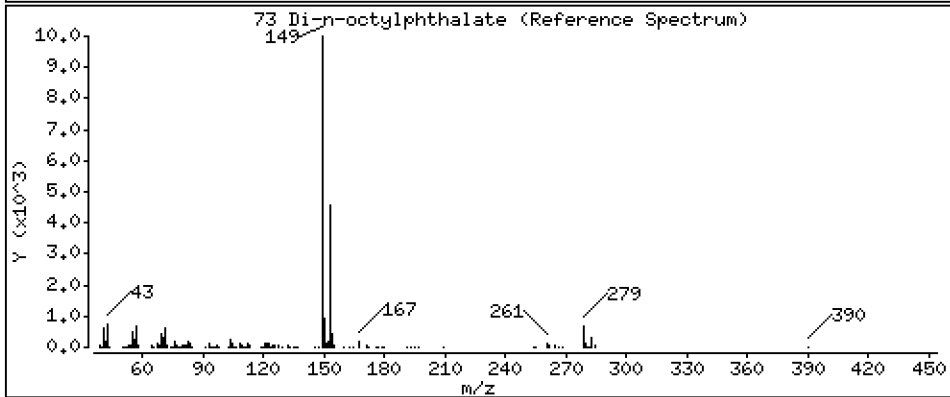
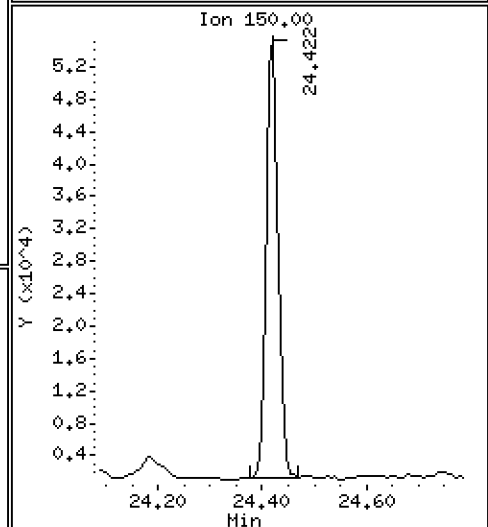
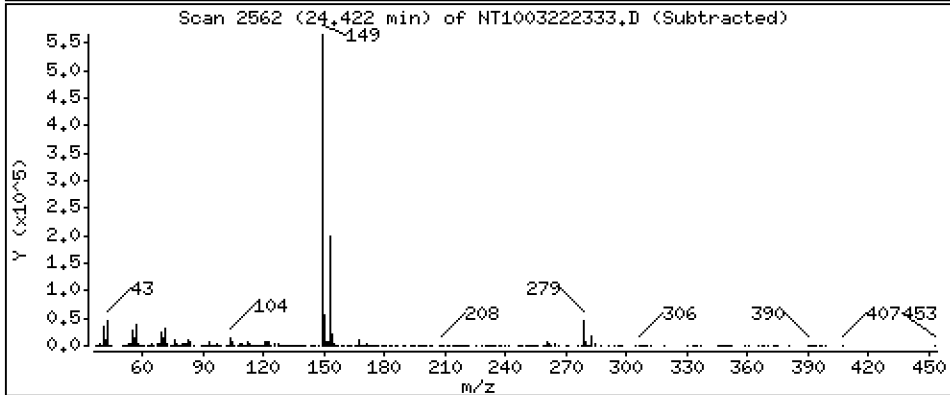
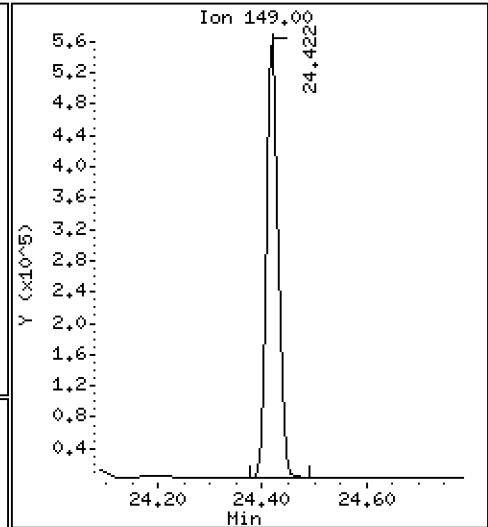
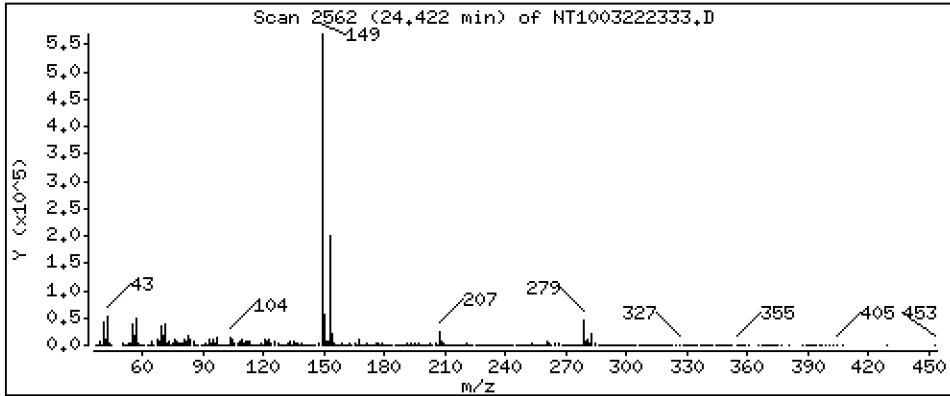
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,602 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

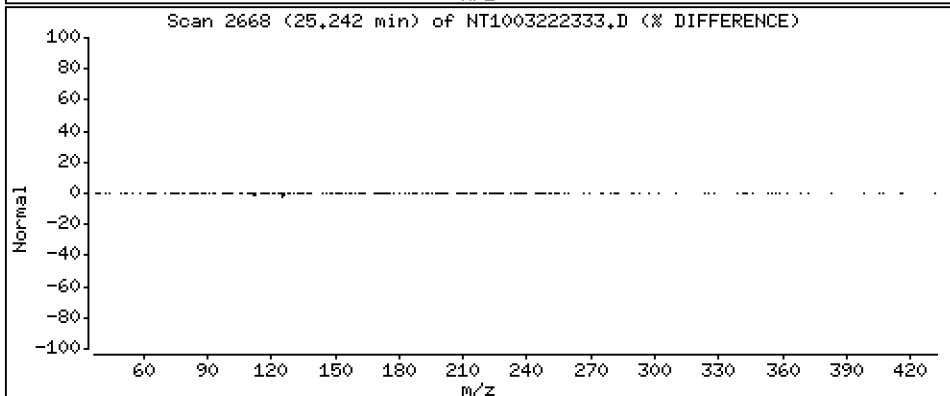
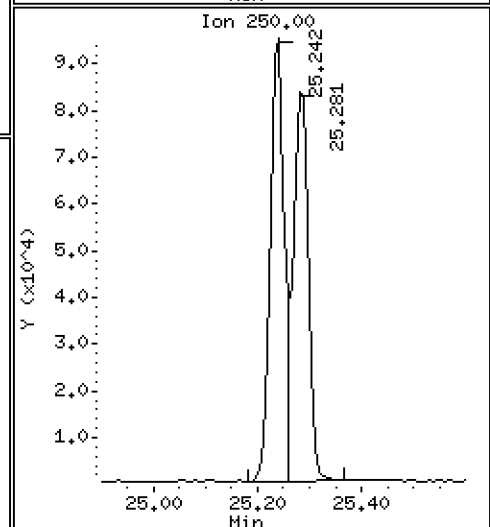
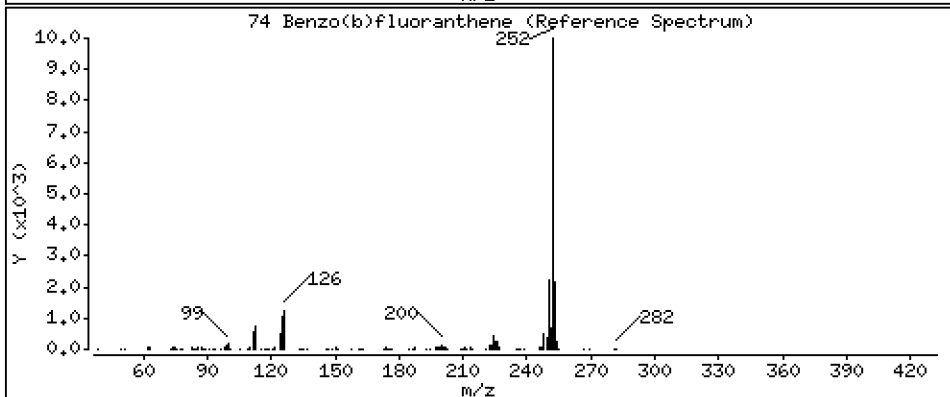
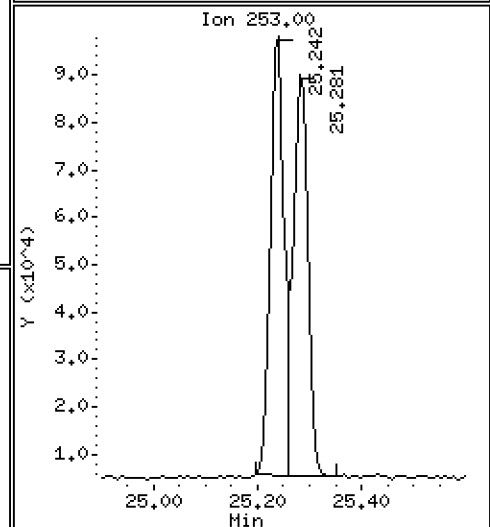
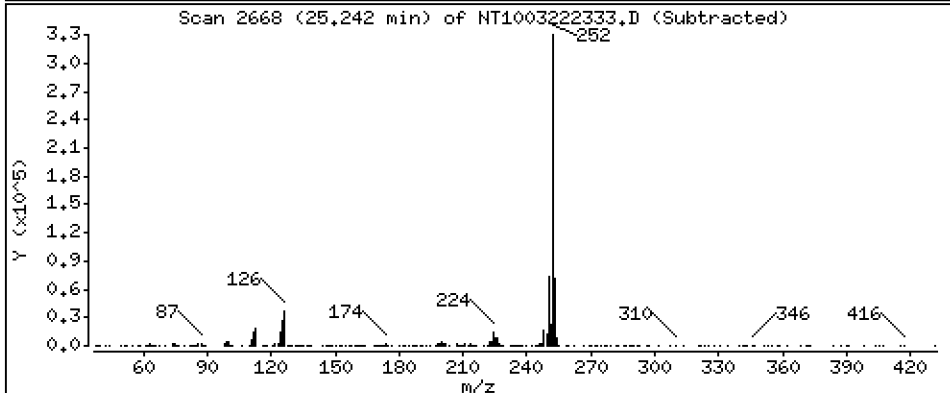
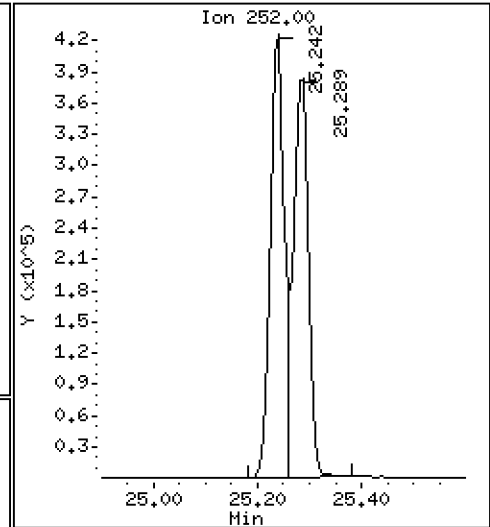
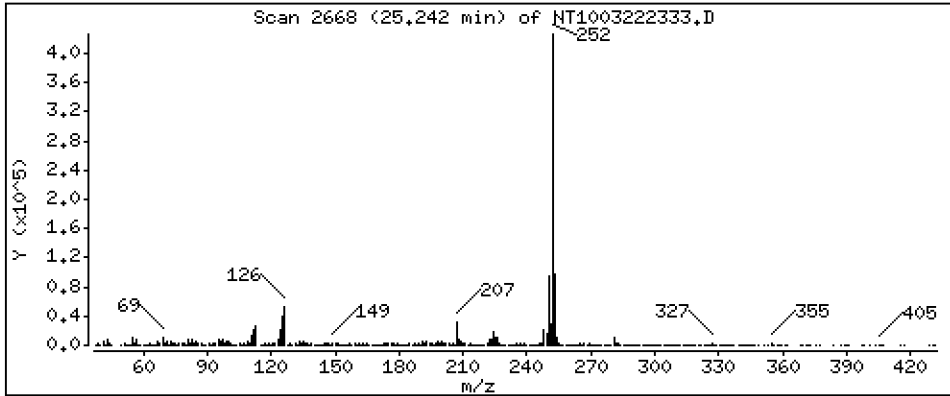
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 5,064 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

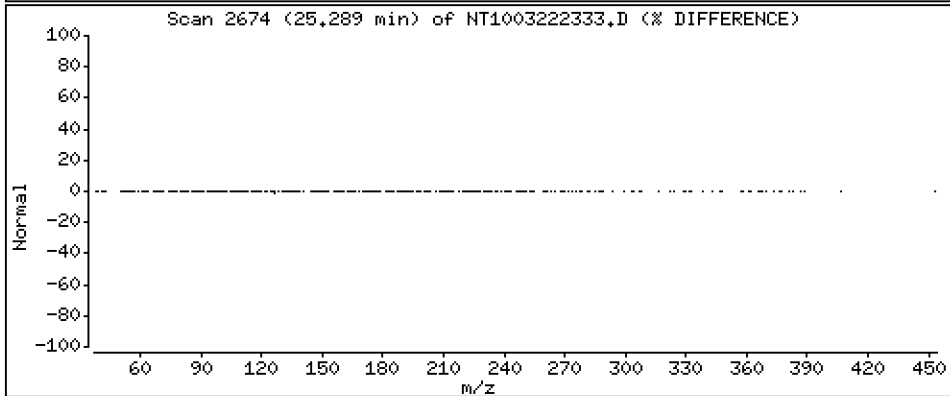
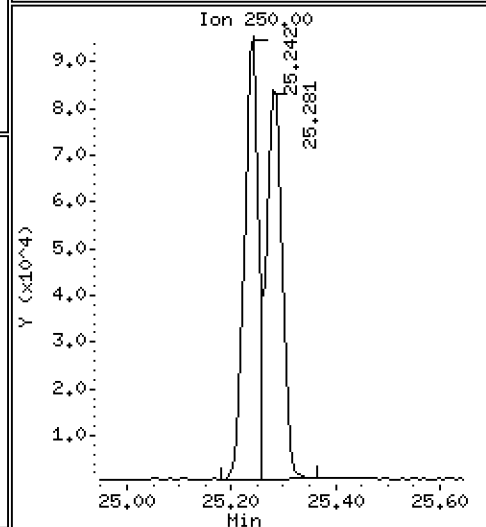
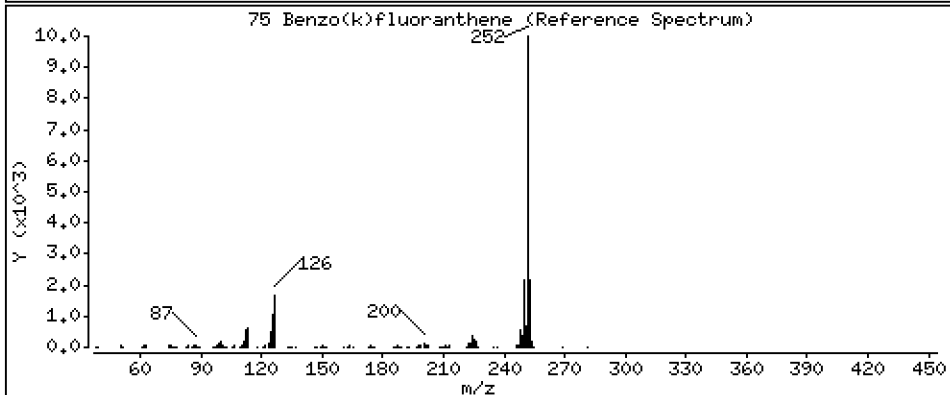
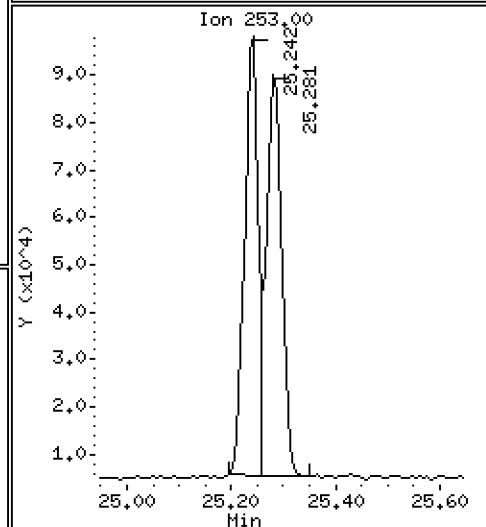
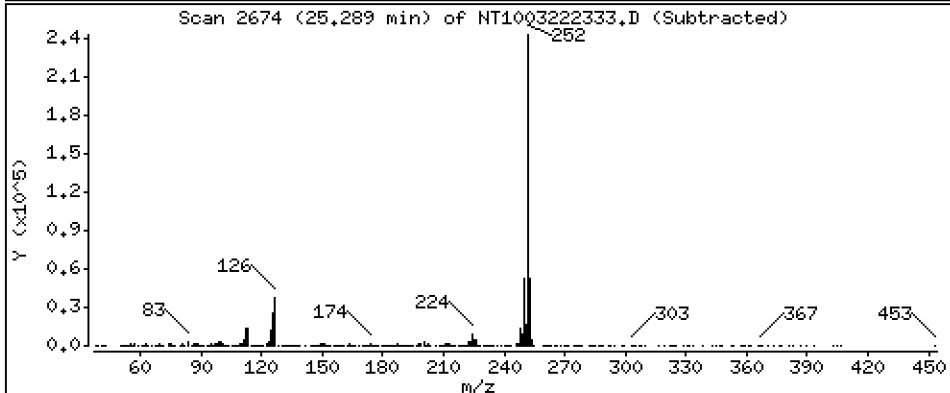
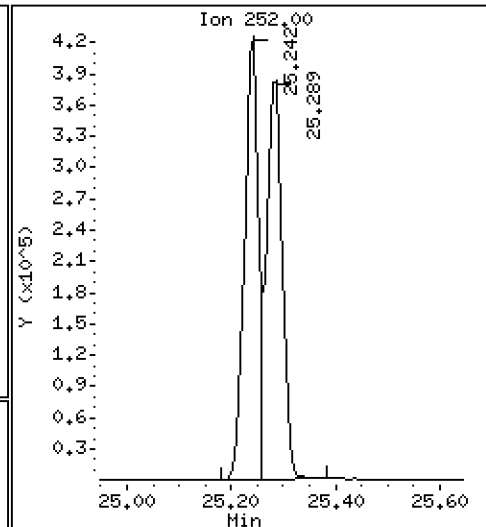
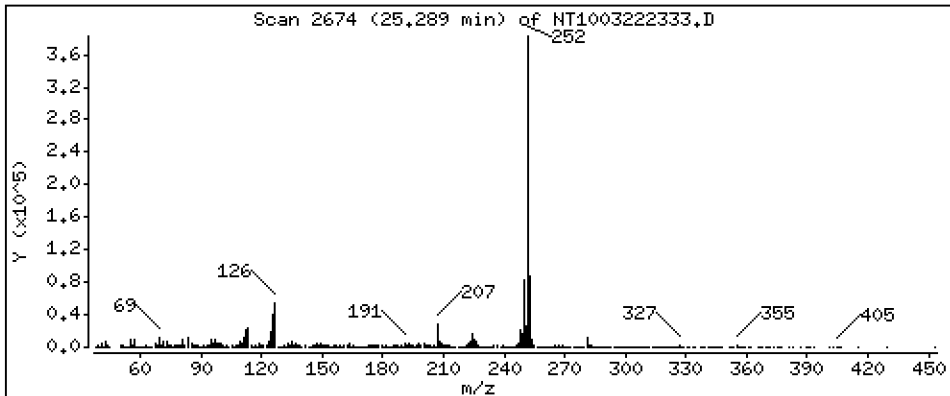
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 5,354 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

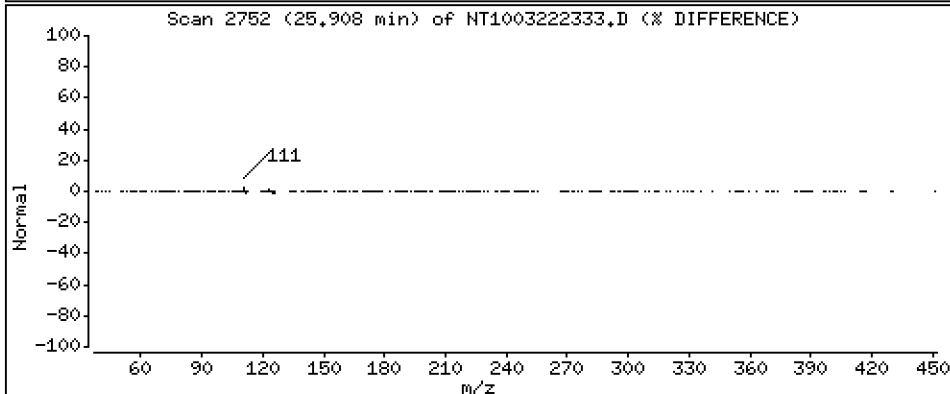
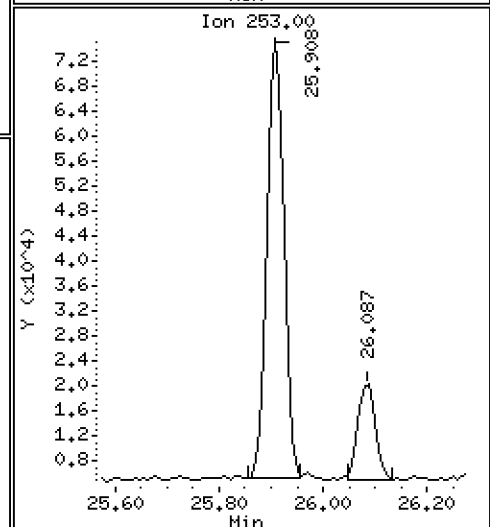
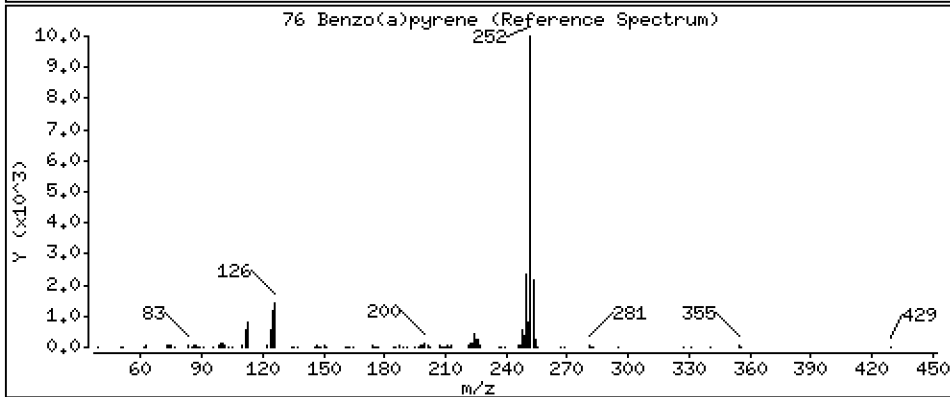
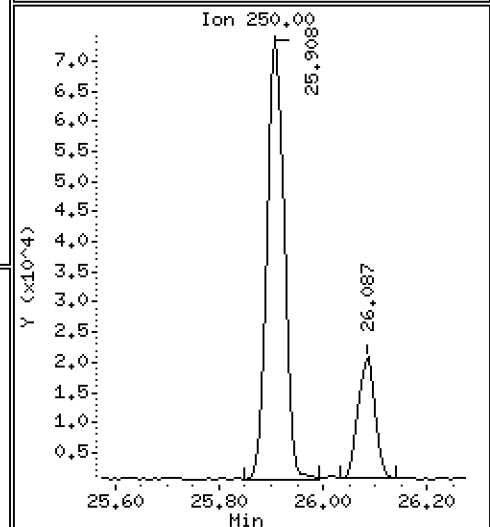
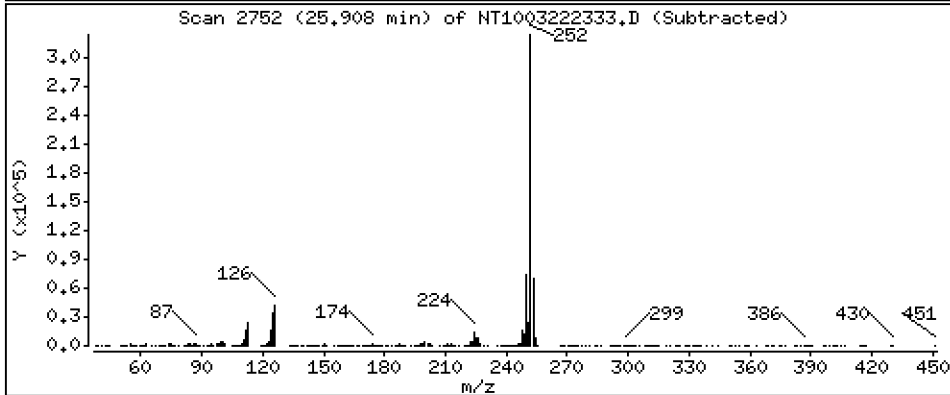
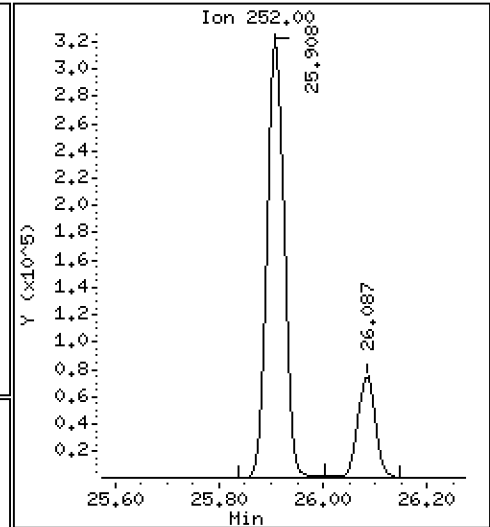
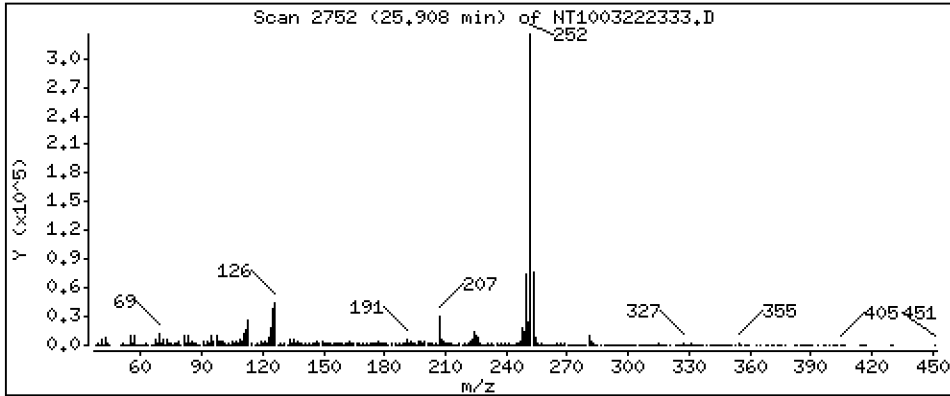
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 5,149 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

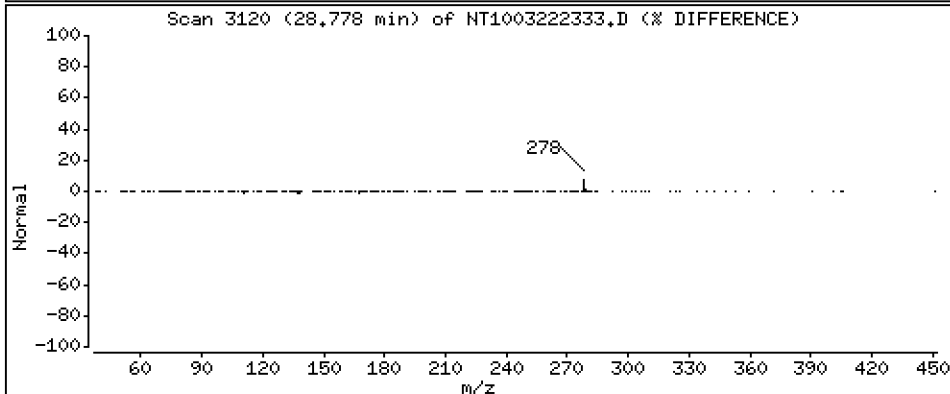
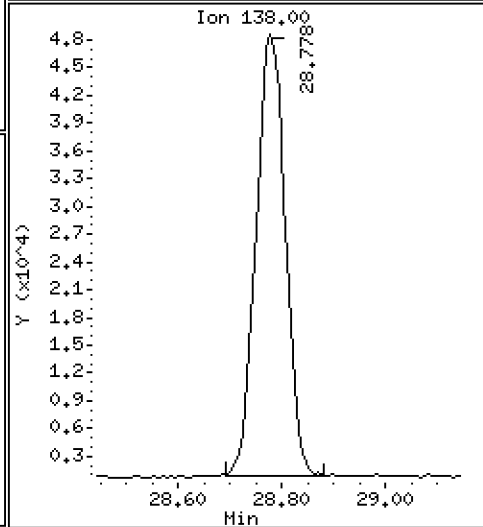
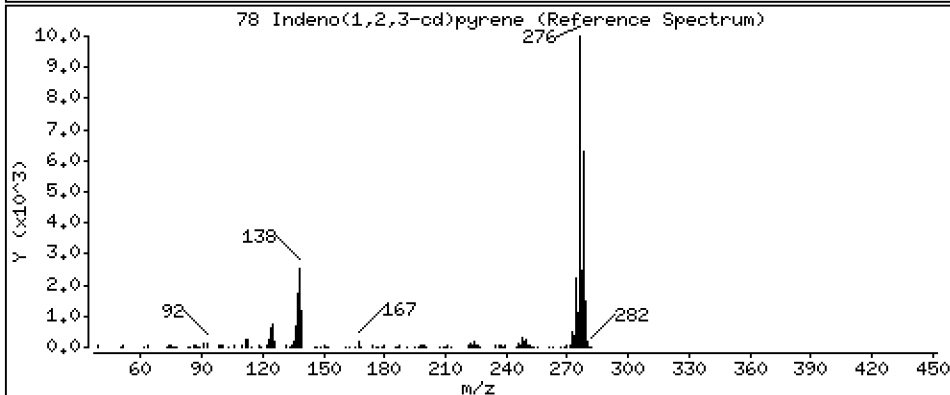
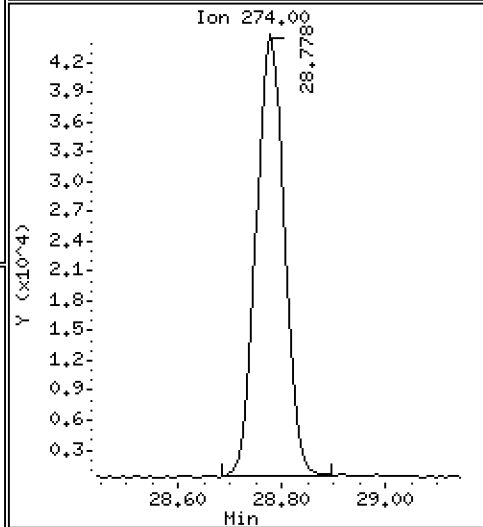
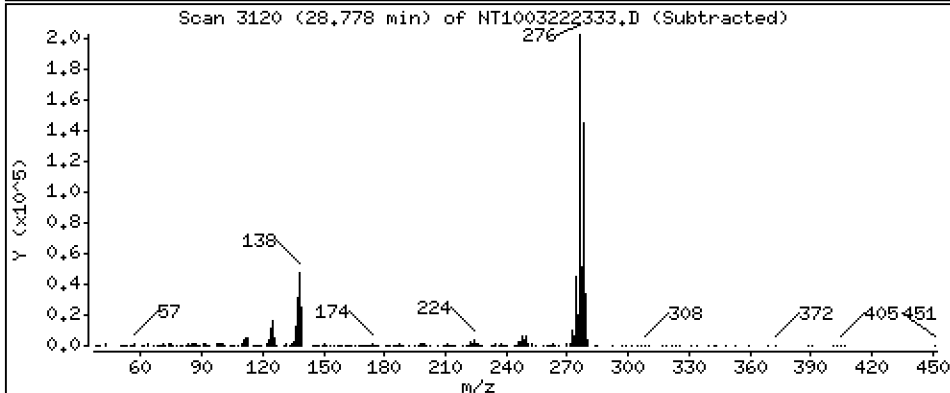
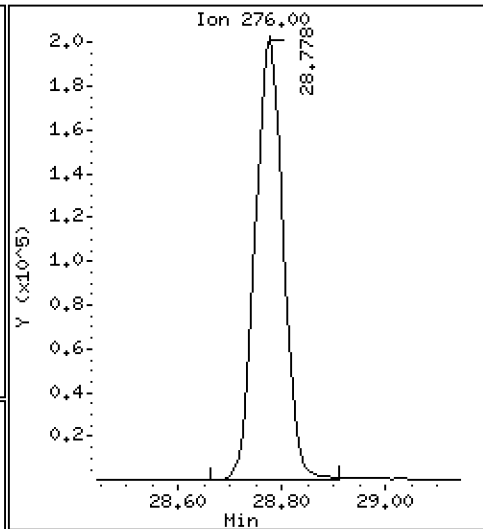
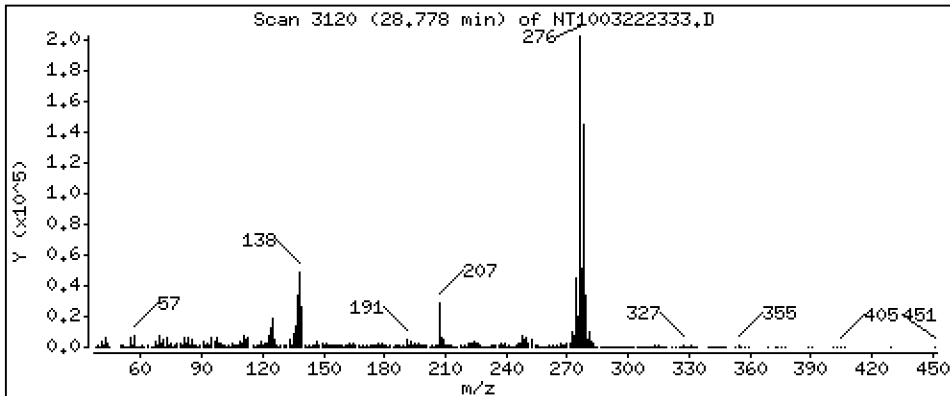
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 4,236 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

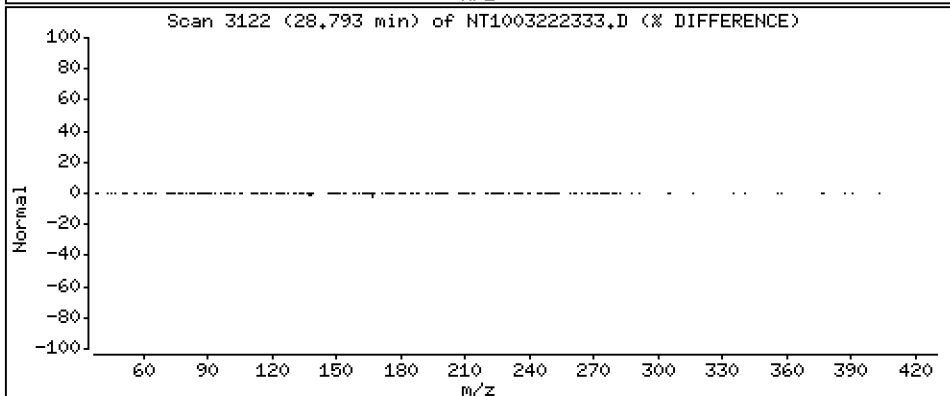
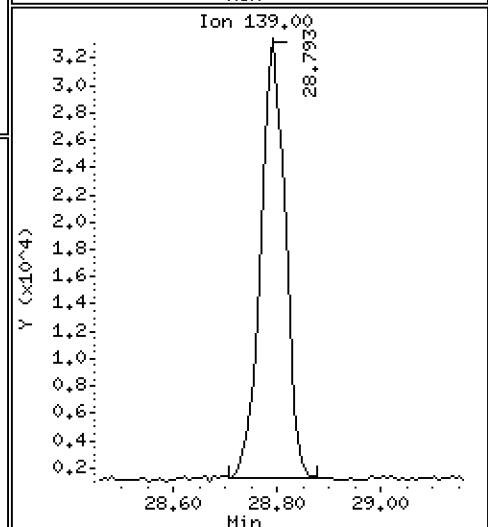
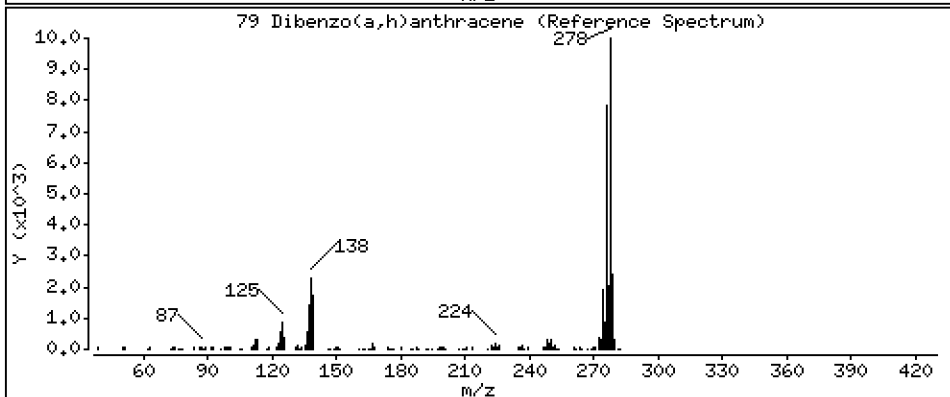
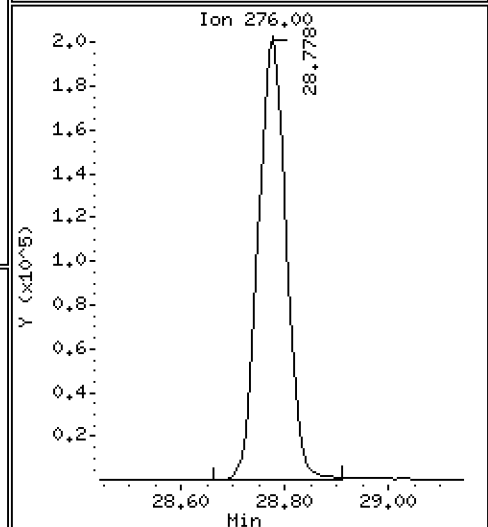
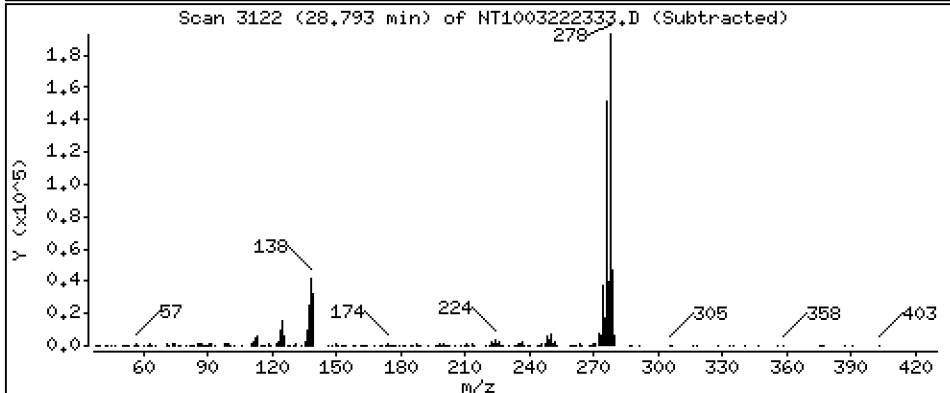
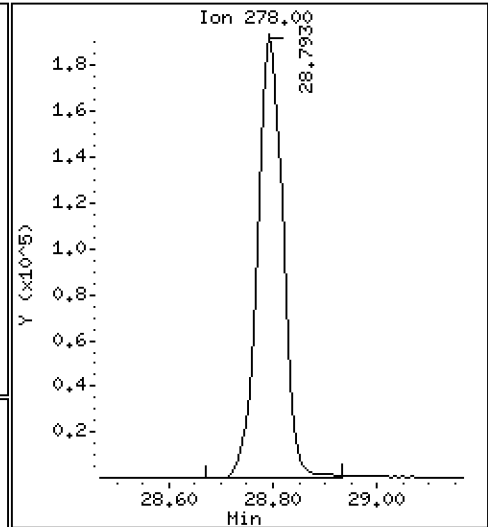
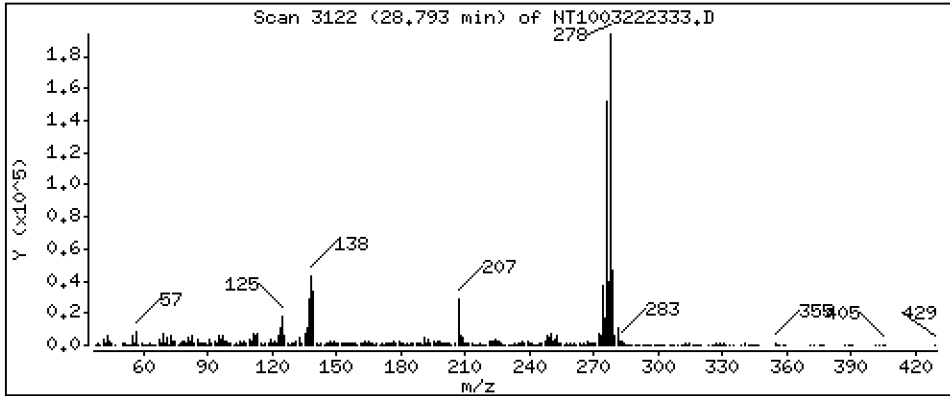
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,424 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

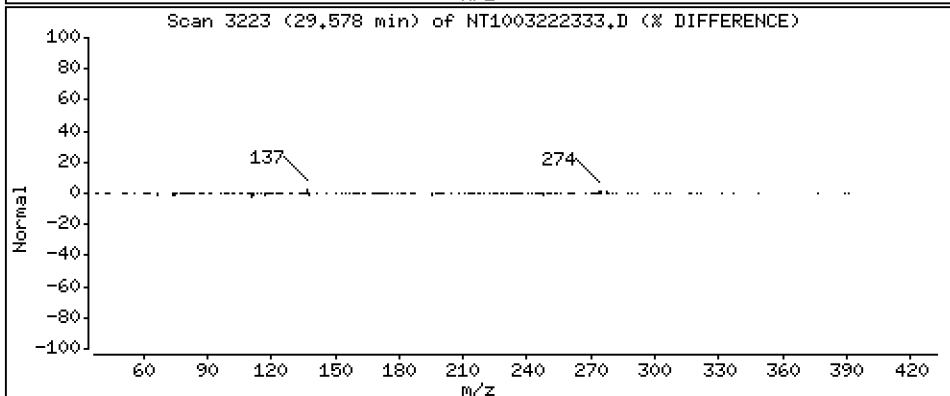
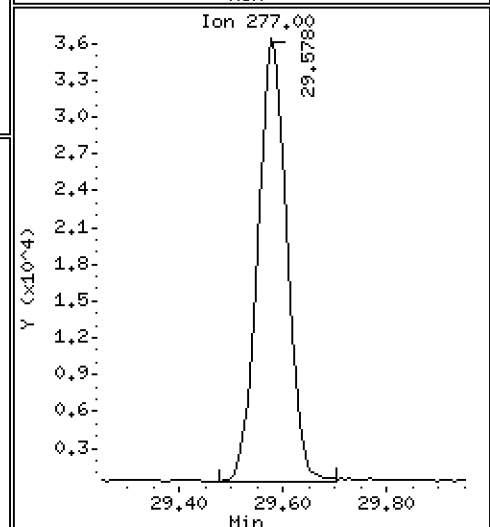
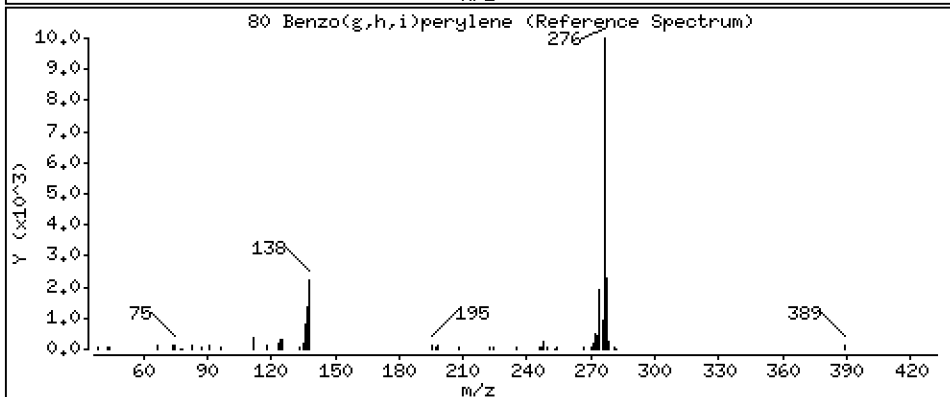
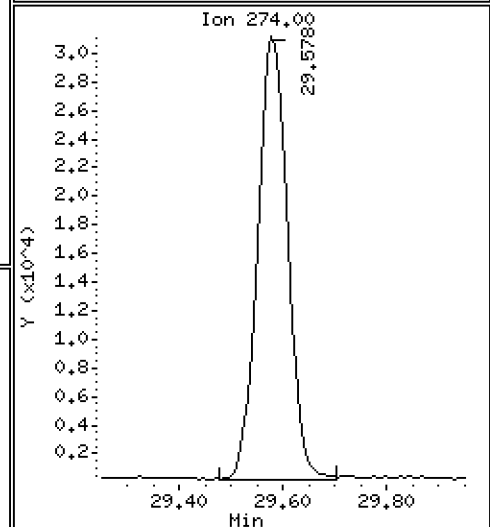
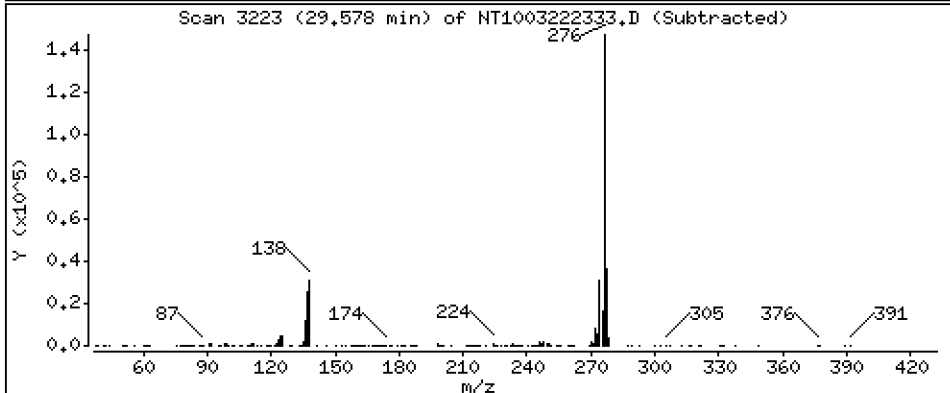
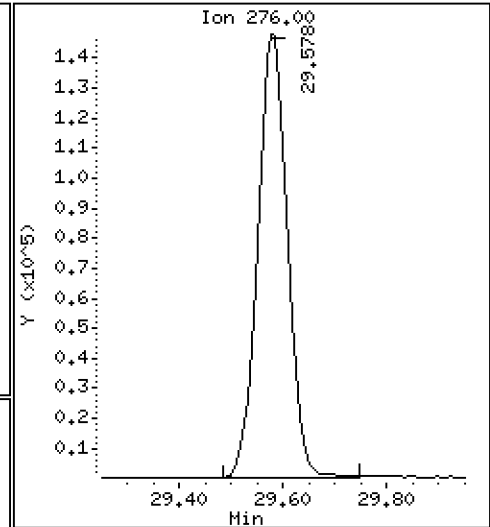
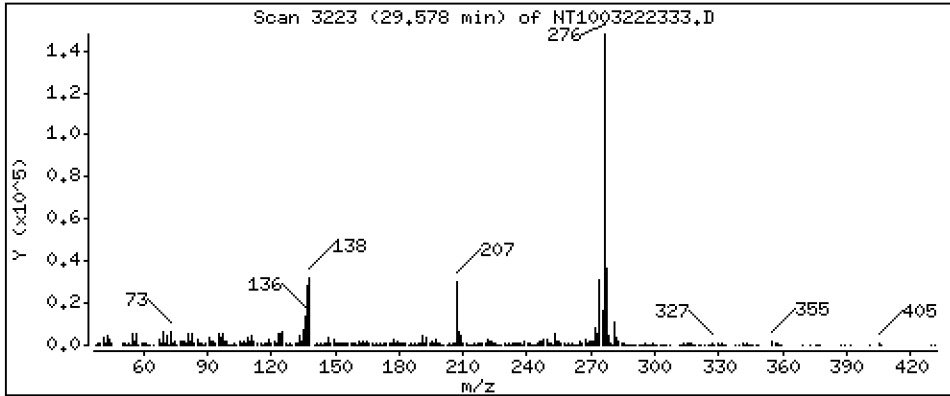
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 3,775 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

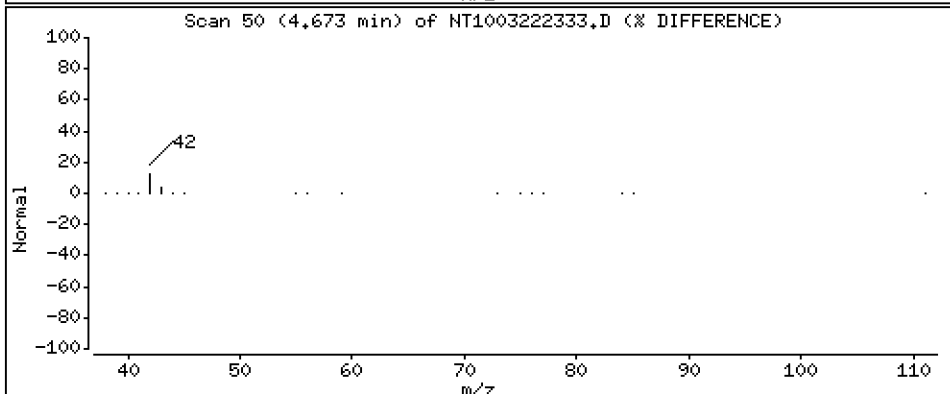
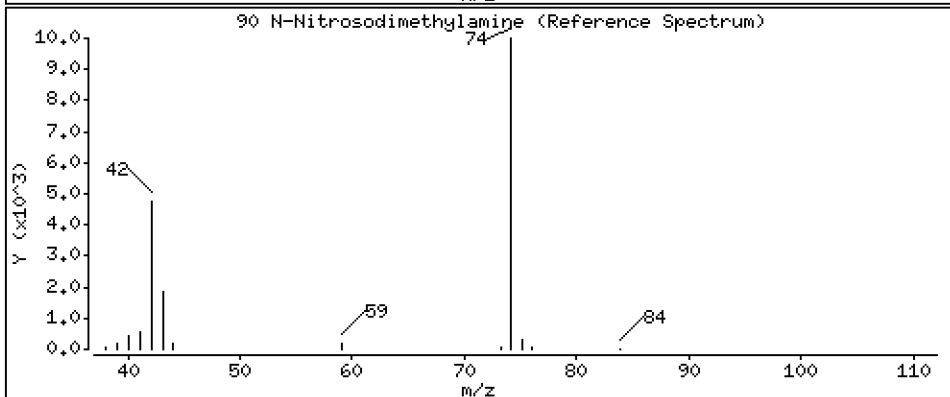
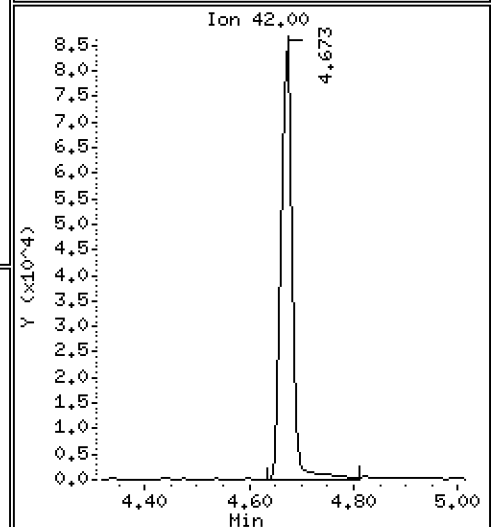
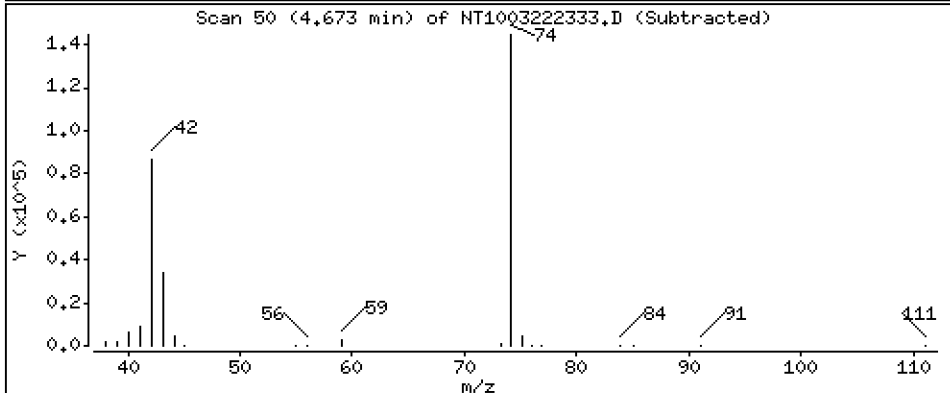
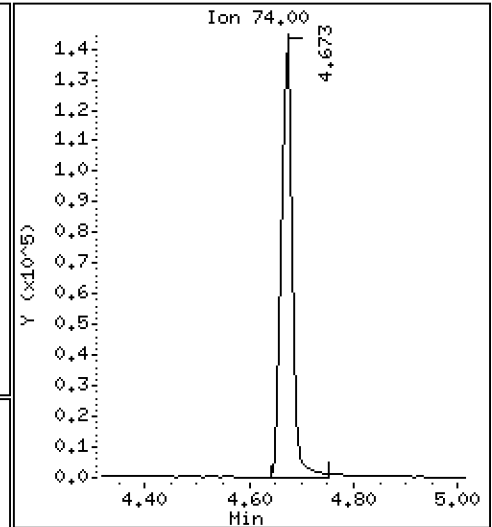
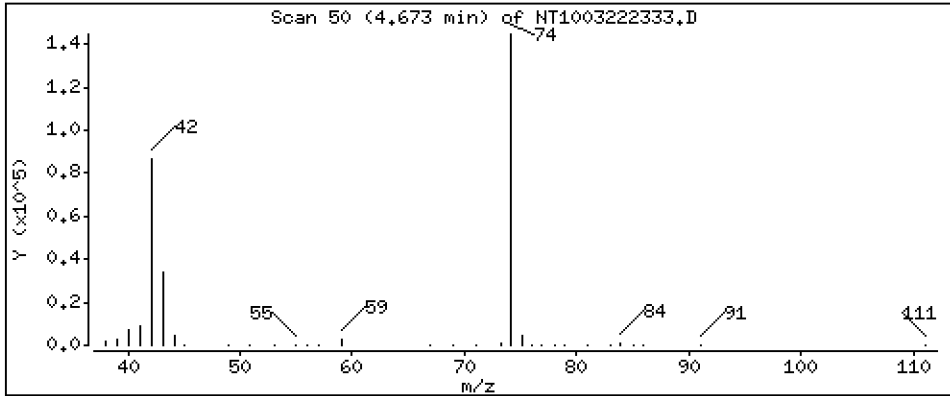
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 9,020 ug/mL





Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

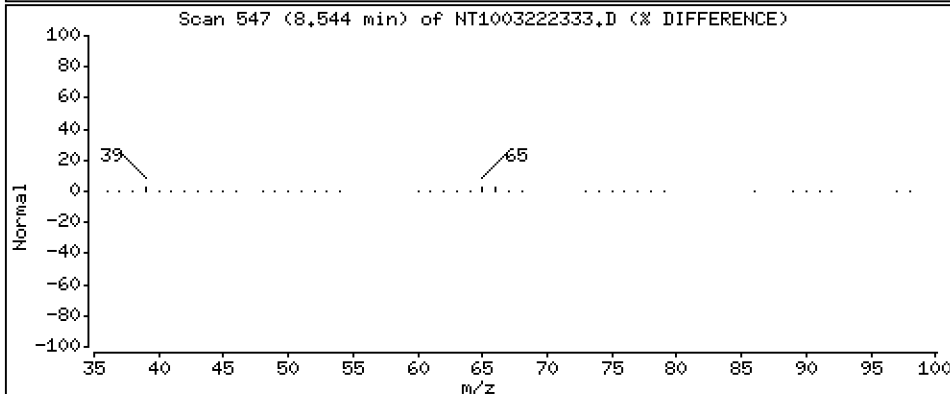
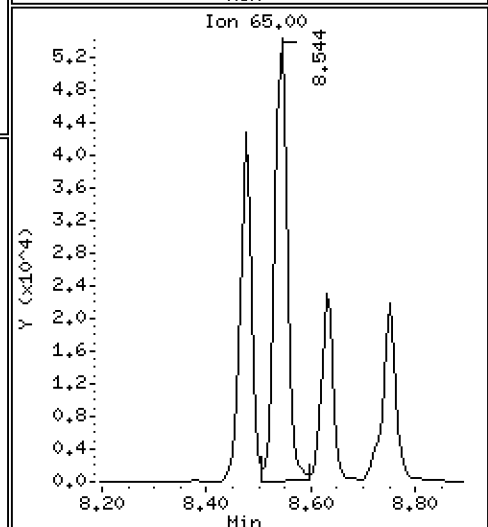
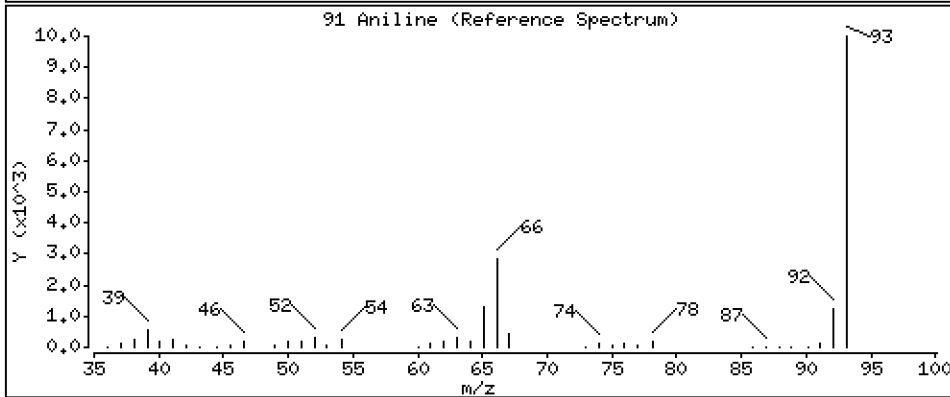
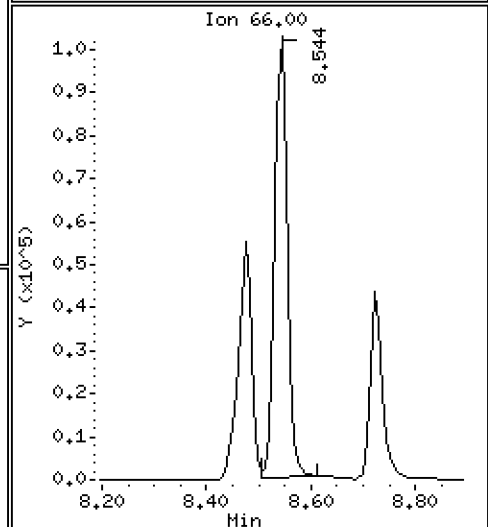
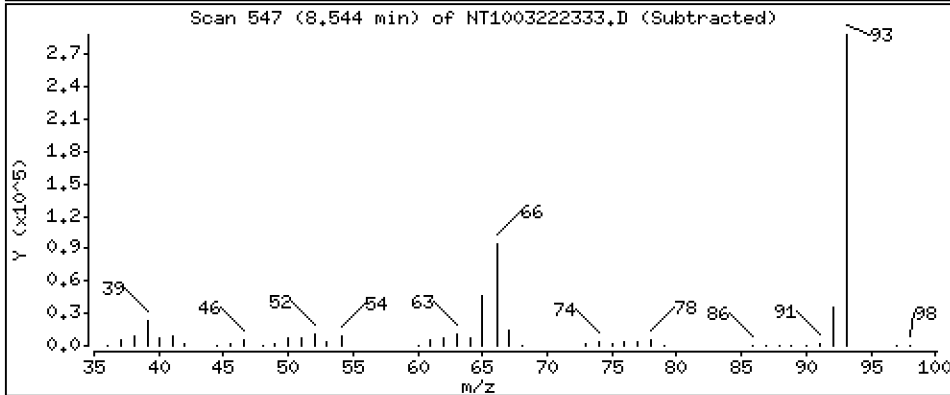
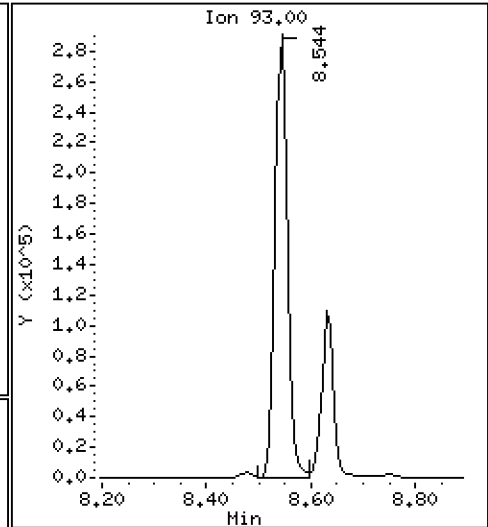
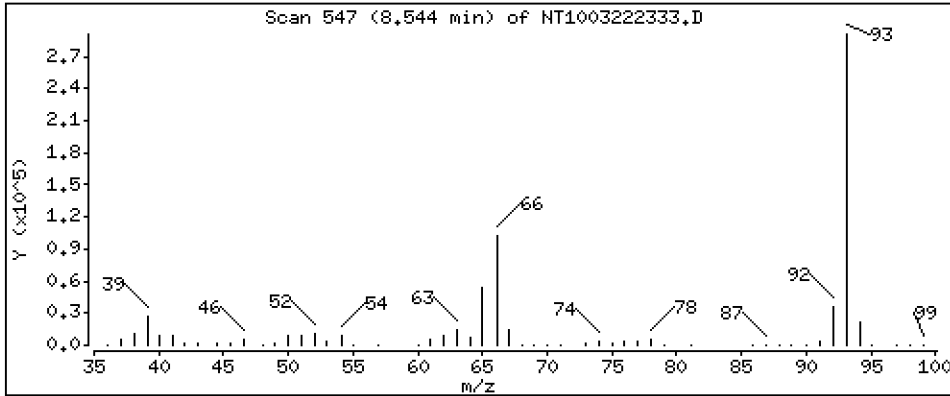
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 9,333 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

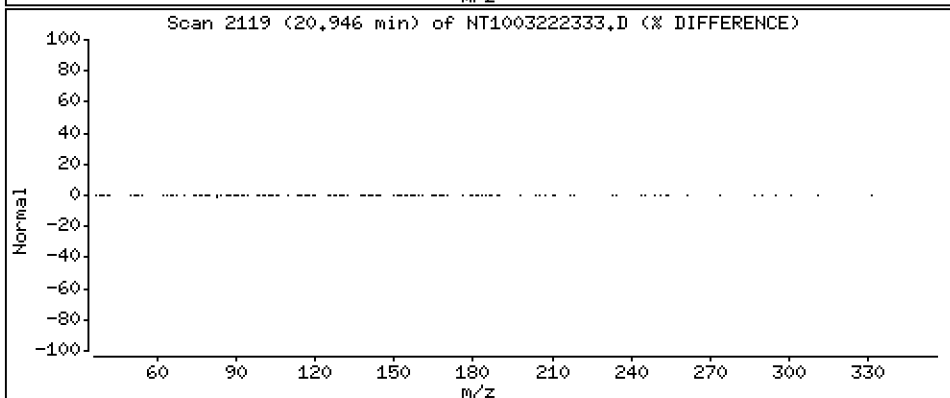
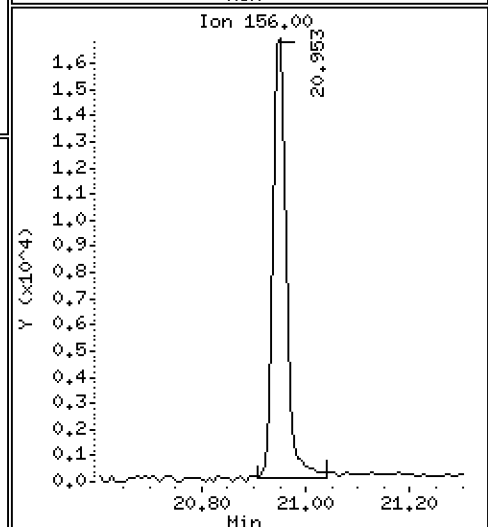
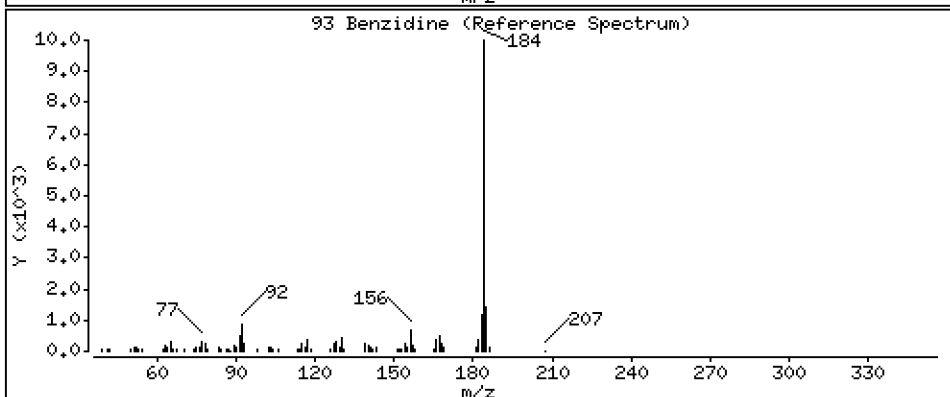
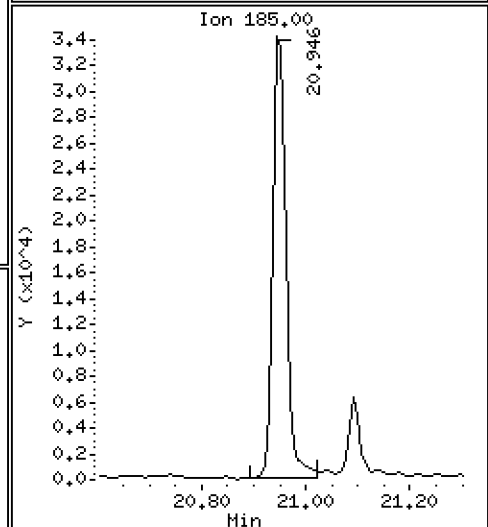
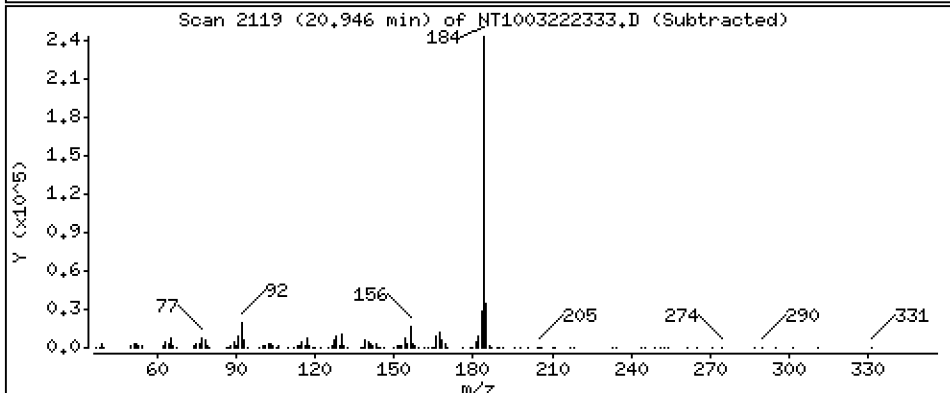
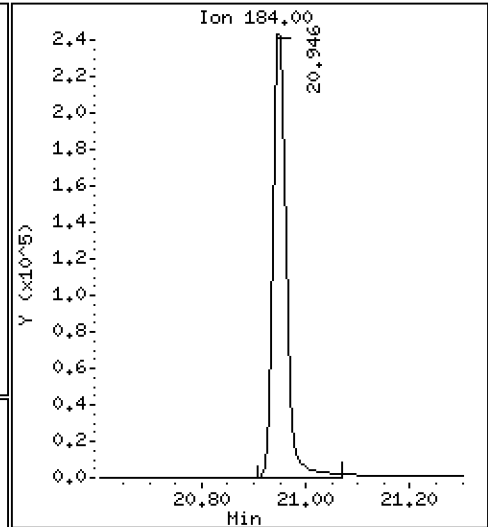
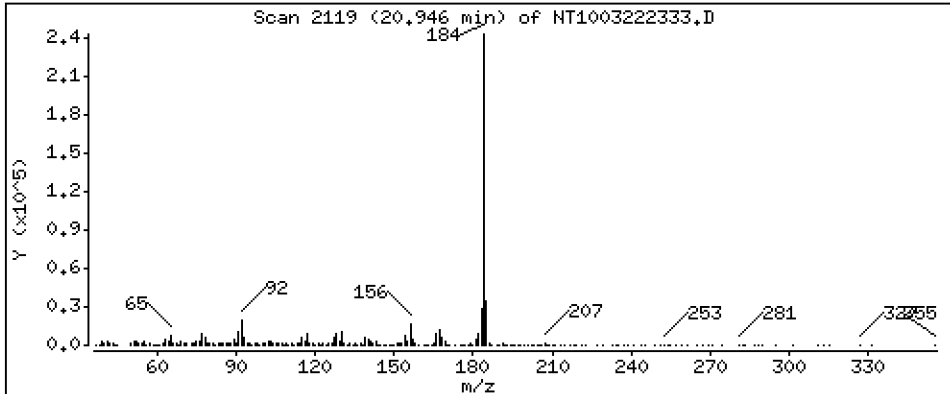
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 5,667 ug/mL

93 Benzidine



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

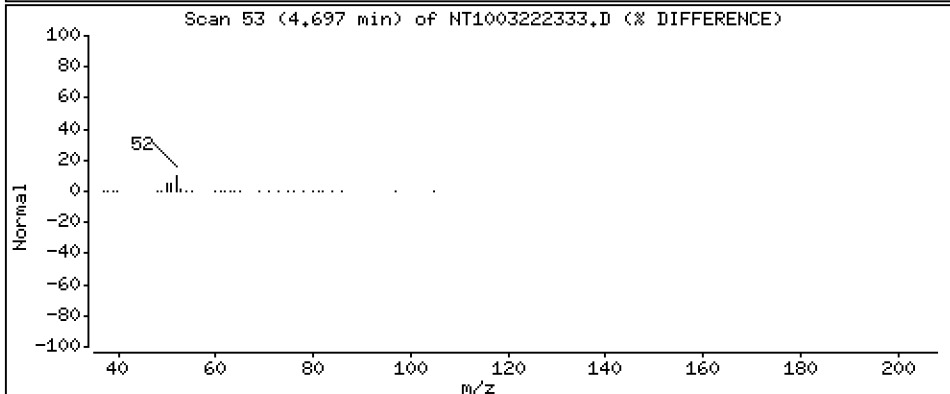
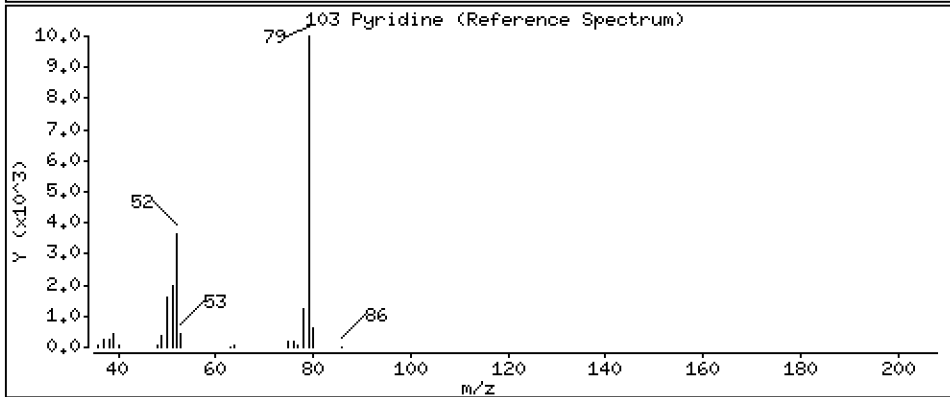
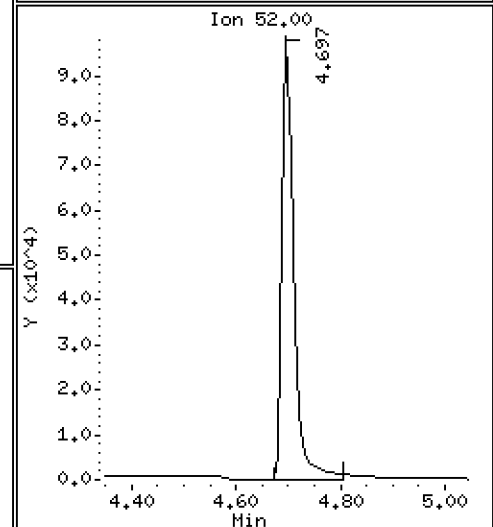
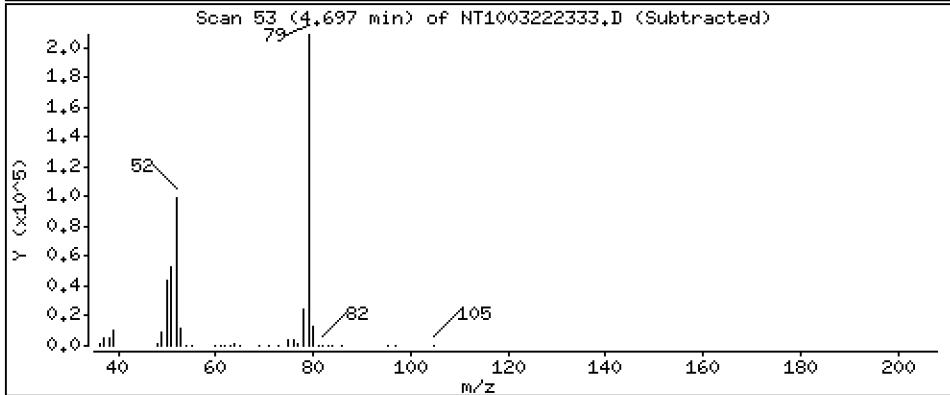
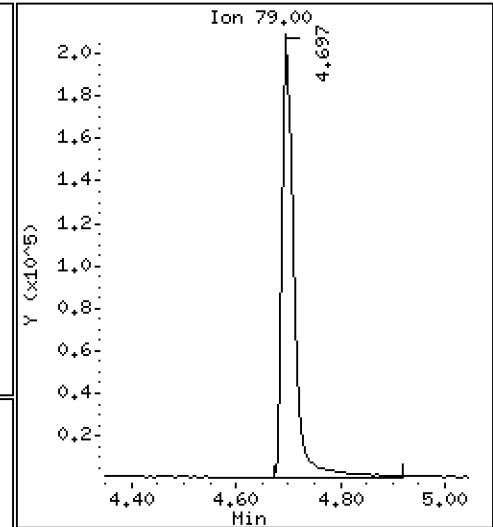
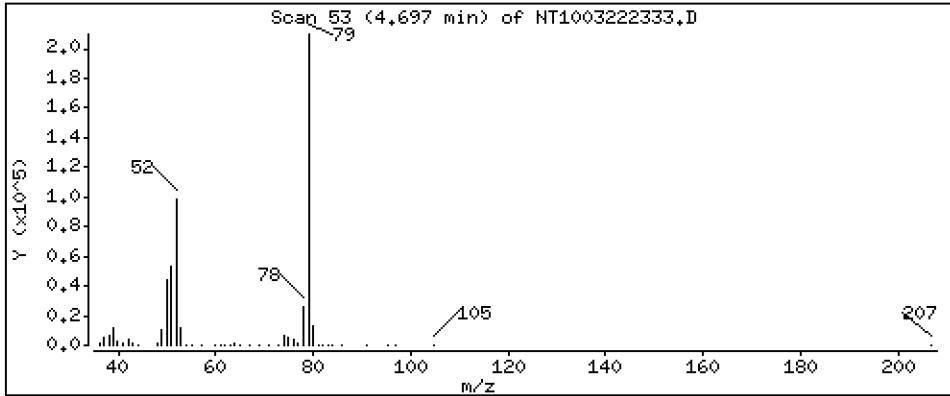
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 9,123 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

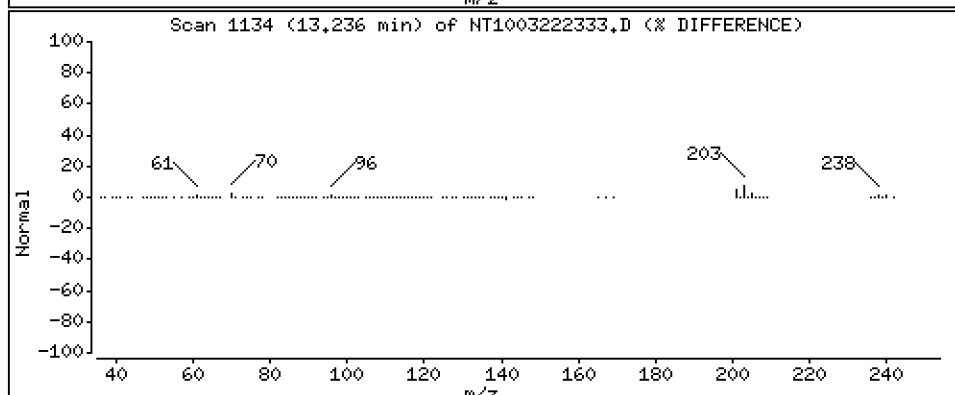
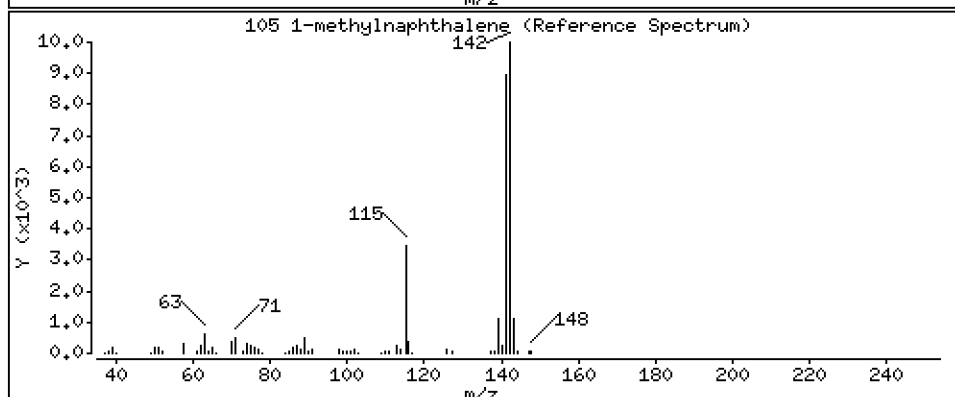
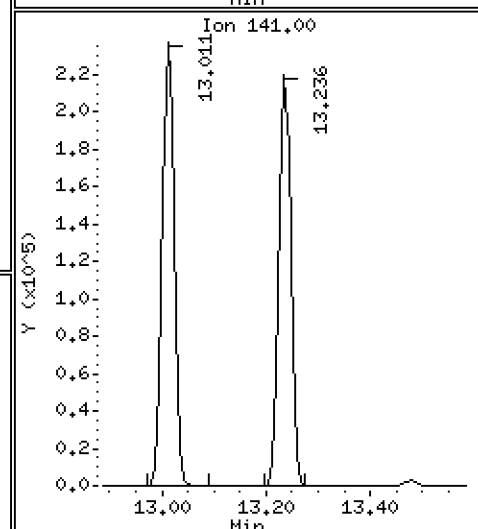
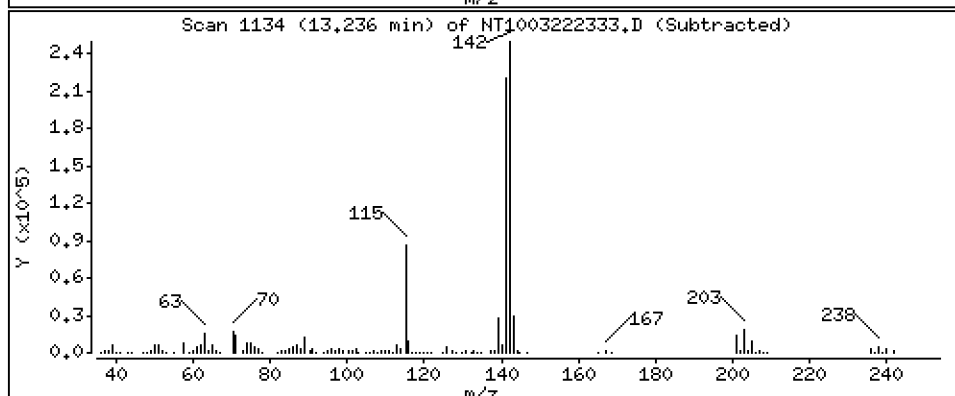
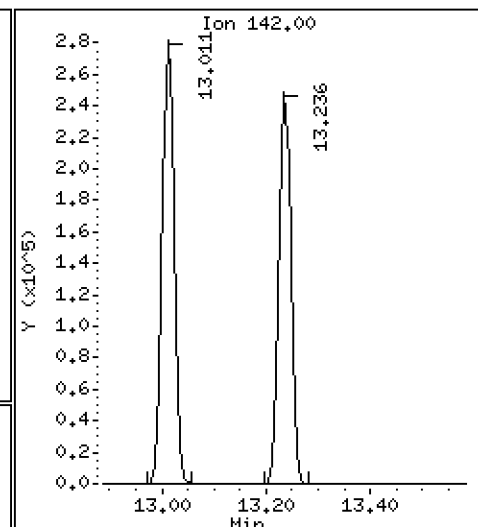
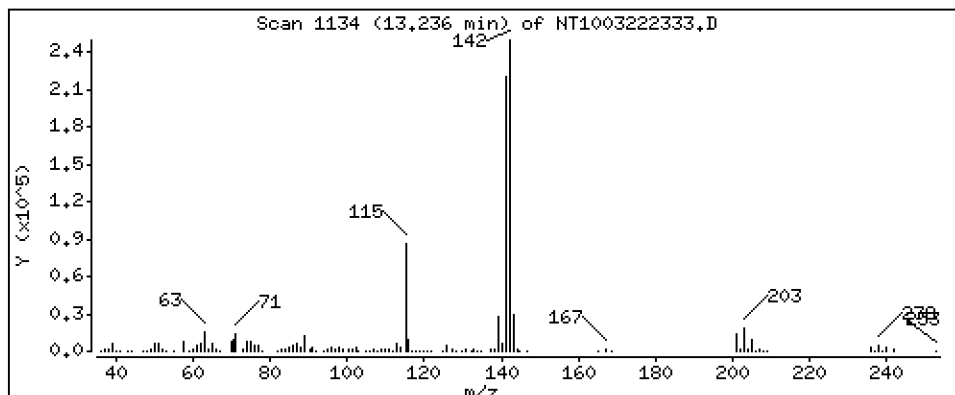
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 5,083 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

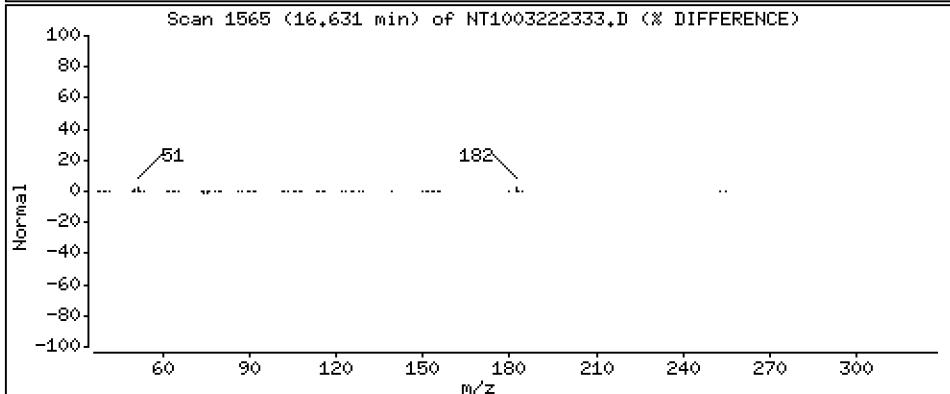
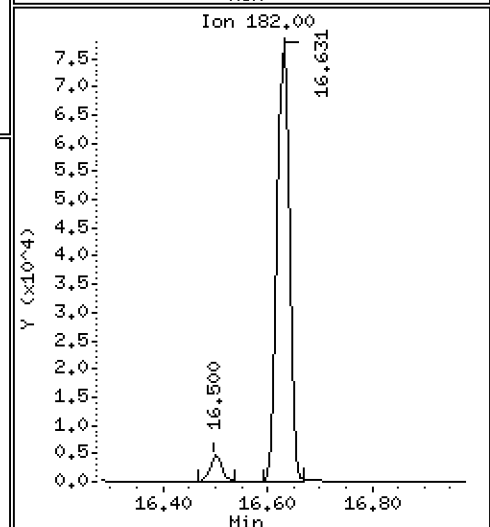
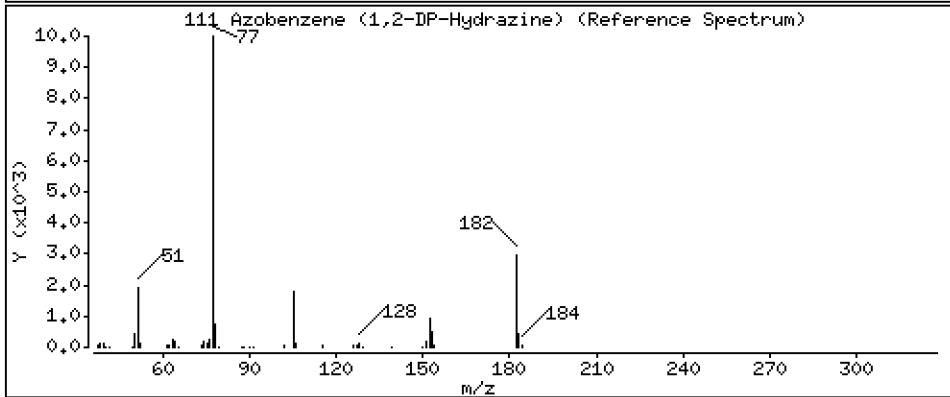
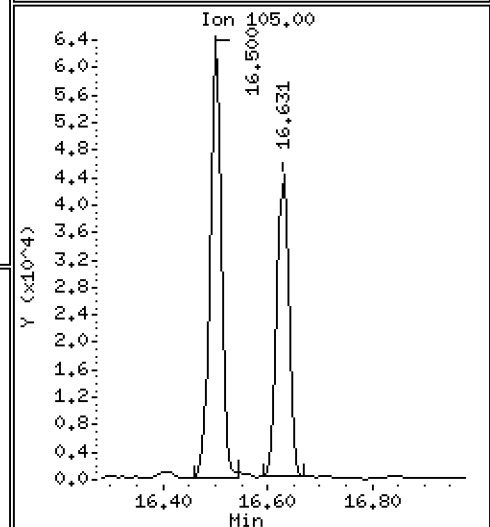
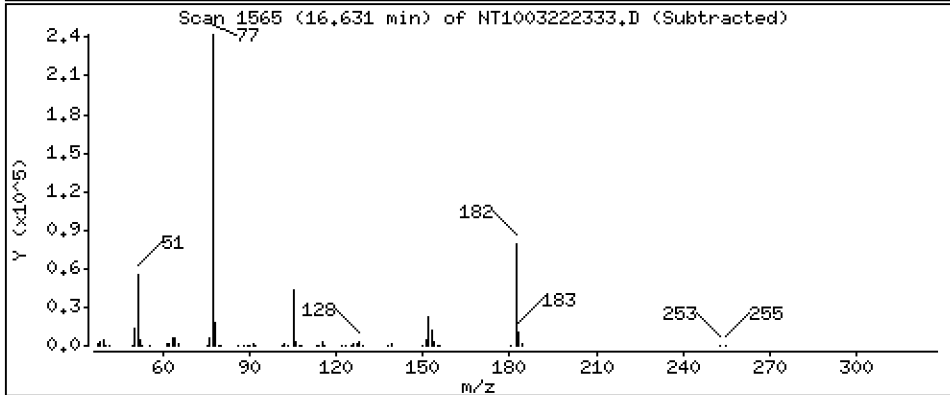
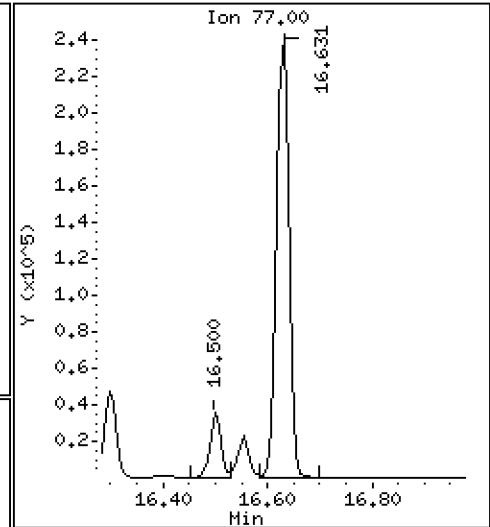
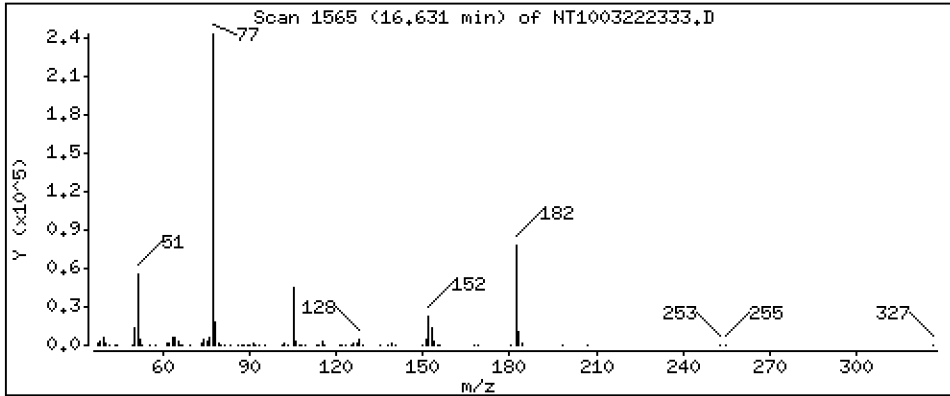
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,336 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

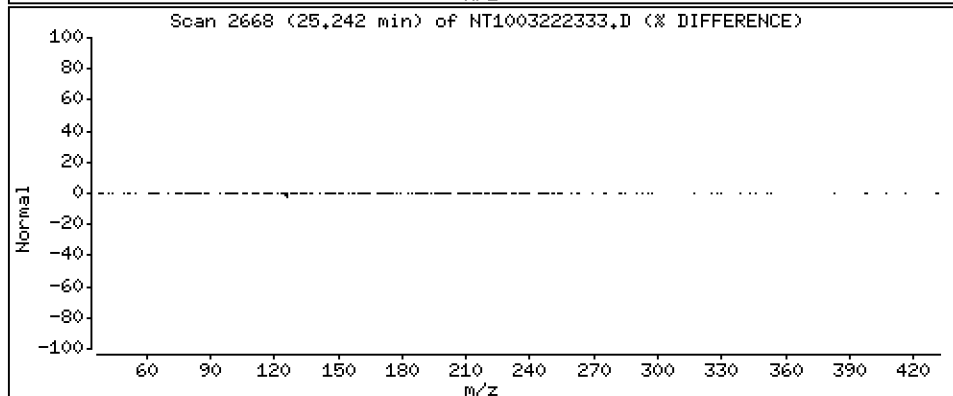
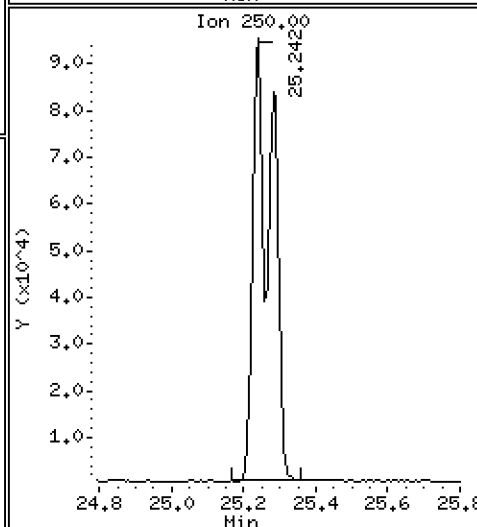
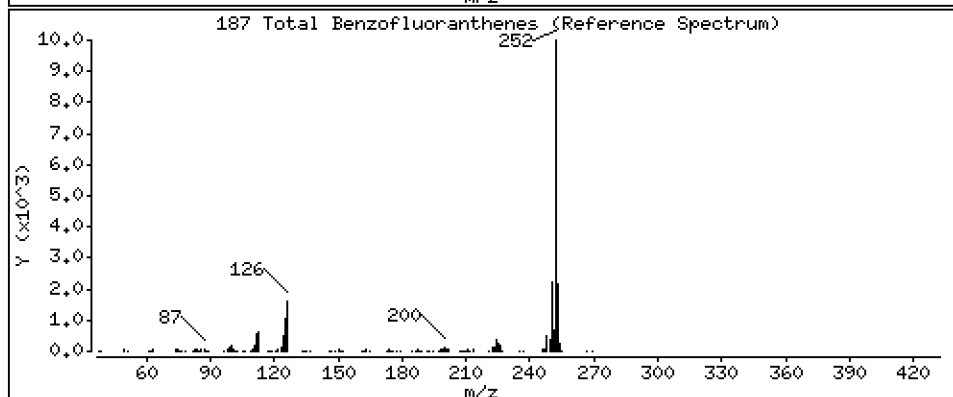
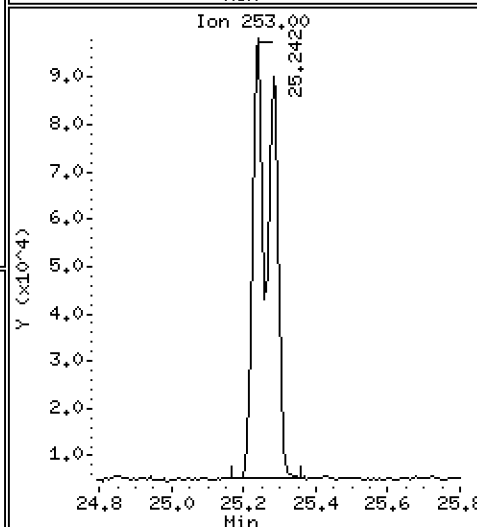
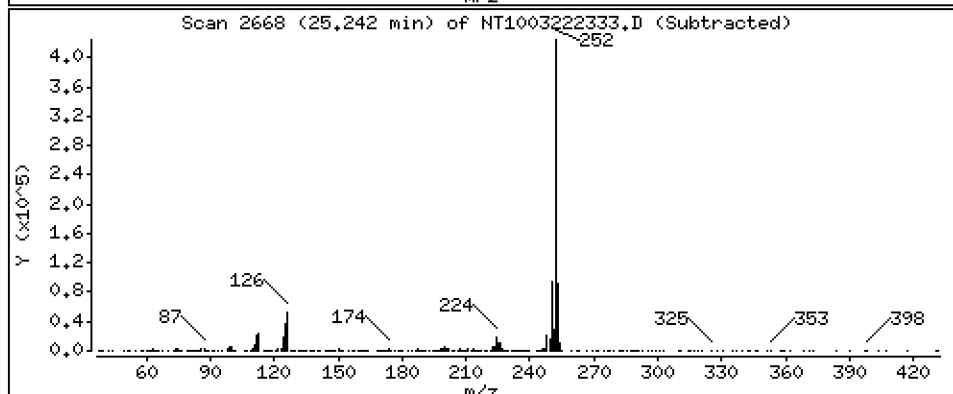
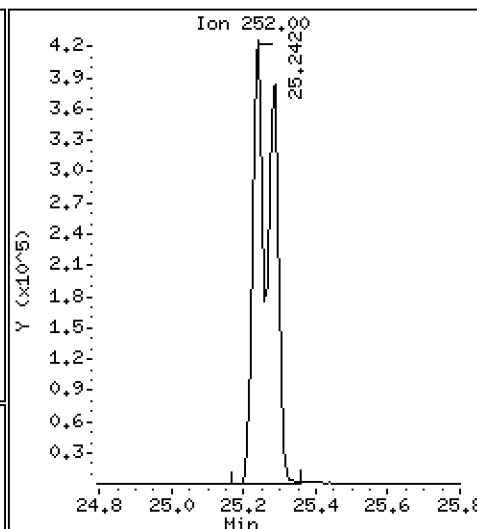
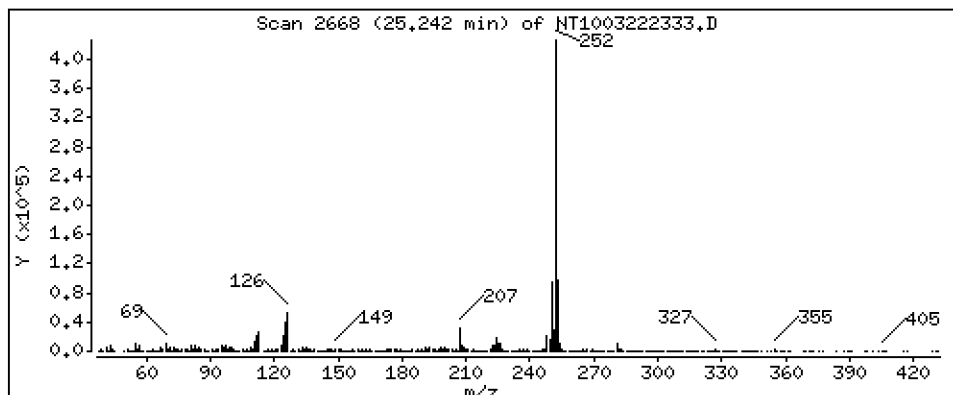
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 10,37 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

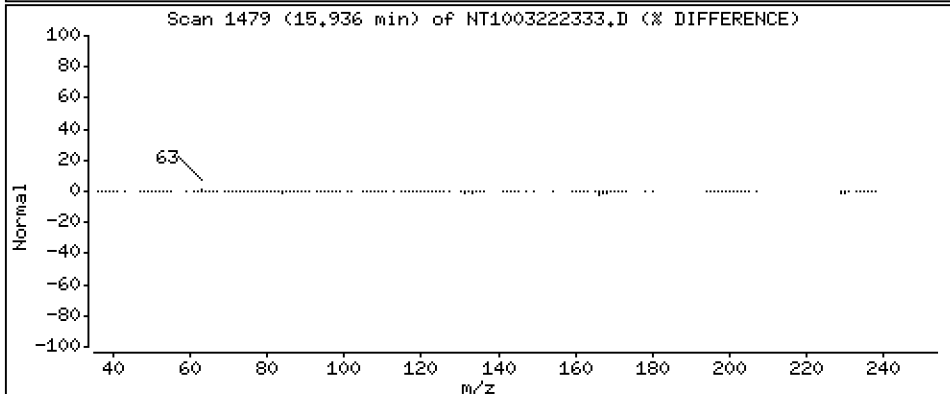
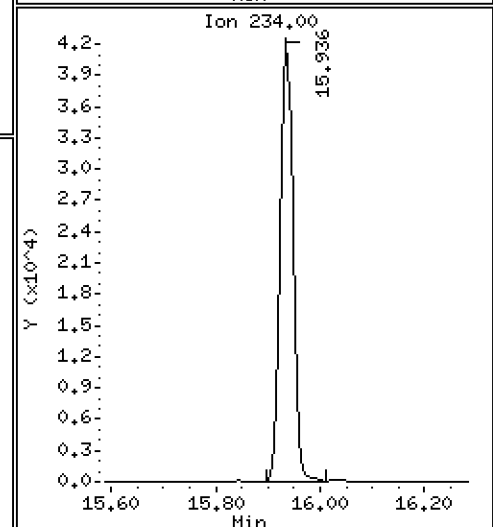
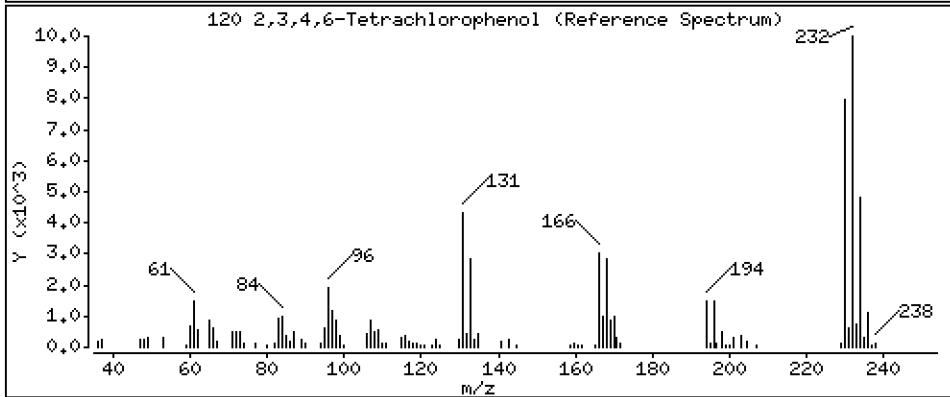
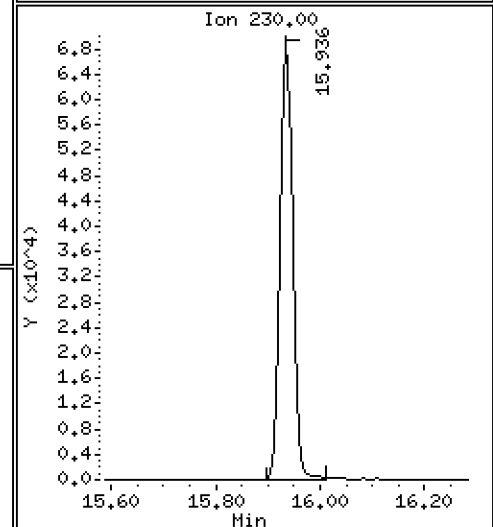
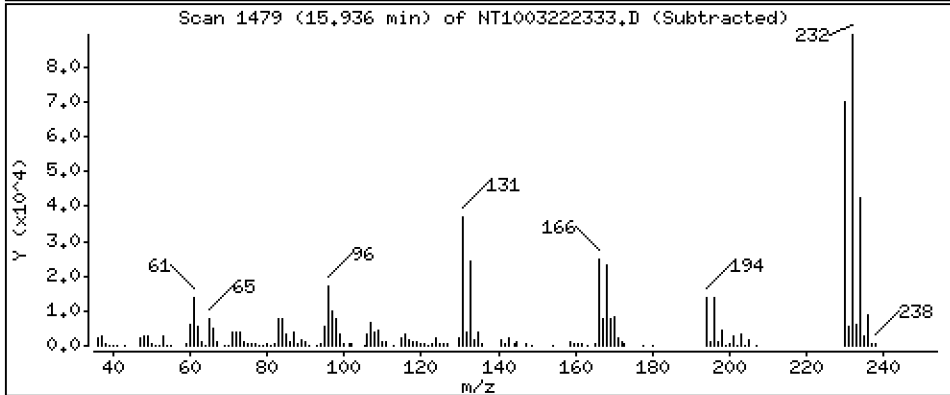
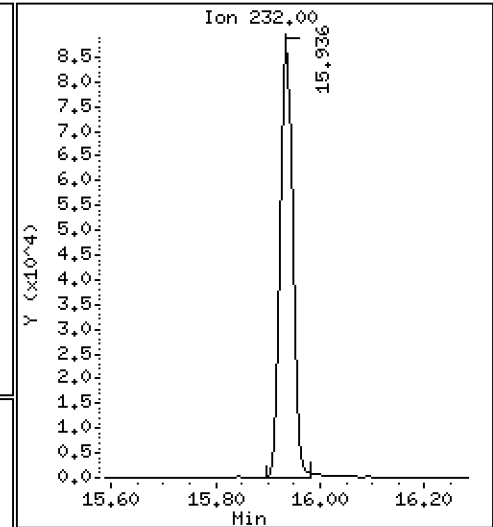
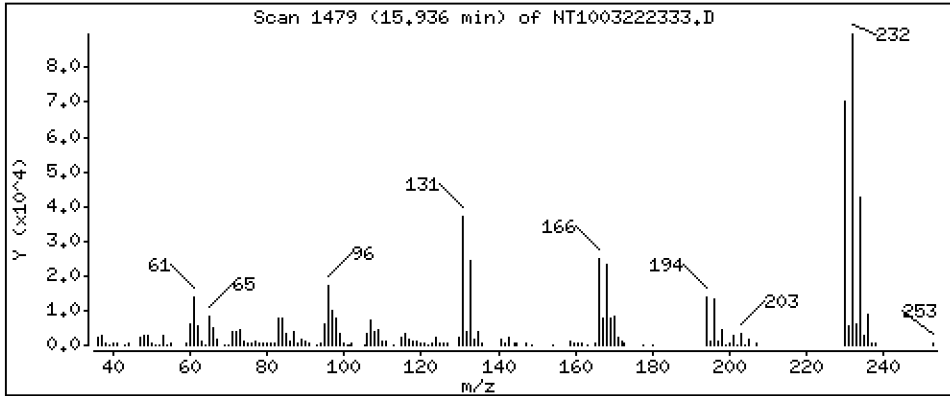
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 5,463 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222333.D  
 Lab Smp Id: SLC0397-CCV1  
 Inj Date : 23-MAR-2023 13:22  
 Operator : VTS  
 Smp Info : SLC0397-CCV1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 10:11 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |           |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|-----------|
|                                 |       |     |        |        |         |          | ON-COLUMN      | FINAL     |
|                                 | MASS  |     |        |        |         |          | (ug/mL)        | (ug/mL)   |
| \$ 1 2-Fluorophenol             | 112   |     | 6.859  | 6.851  | (0.755) | 263533   | 7.52570        | 7.526     |
| \$ 2 Phenol-d5                  | 99    |     | 8.451  | 8.450  | (0.930) | 346626   | 7.54550        | 7.546     |
| 3 Phenol                        | 94    |     | 8.474  | 8.474  | (0.933) | 228308   | 4.78263        | 4.783     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.721  | 8.721  | (0.960) | 300033   | 7.64846        | 7.648     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.628  | 8.628  | (0.950) | 167467   | 4.72999        | 4.730     |
| 6 2-Chlorophenol                | 128   |     | 8.752  | 8.752  | (0.963) | 199359   | 4.87954        | 4.880     |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.023  | 9.022  | (0.993) | 205673   | 4.76168        | 4.762     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.085  | 9.085  | (1.000) | 115795   | 4.00000        |           |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.116  | 9.116  | (1.003) | 200447   | 4.80393        | 4.804     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.442  | 9.441  | (1.039) | 137609   | 4.88466        | 4.885     |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.473  | 9.473  | (1.043) | 197623   | 4.81255        | 4.813     |
| 11 Benzyl alcohol               | 108   |     | 9.356  | 9.356  | (1.030) | 119022   | 5.31200        | 5.312     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.659  | 9.659  | (1.063) | 55829    | 4.62951        | 4.630 (M) |
| 13 2-Methylphenol               | 108   |     | 9.589  | 9.589  | (1.056) | 170468   | 4.89868        | 4.899     |
| 17 Hexachloroethane             | 117   |     | 10.063 | 10.063 | (1.108) | 60830    | 3.55326        | 3.553     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.915  | 9.915  | (1.091) | 129105   | 4.69859        | 4.699     |
| 15 4-Methylphenol               | 108   |     | 9.861  | 9.861  | (1.085) | 183908   | 5.01579        | 5.016     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.179 | 10.179 | (0.880) | 208700   | 4.89928        | 4.899     |
| 19 Nitrobenzene                 | 77    |     | 10.218 | 10.218 | (0.883) | 192430   | 4.60310        | 4.603     |
| 20 Isophorone                   | 82    |     | 10.668 | 10.668 | (0.922) | 284081   | 5.31201        | 5.312     |
| 21 2-Nitrophenol                | 139   |     | 10.850 | 10.850 | (0.938) | 132729   | 6.48402        | 6.484     |
| 22 2,4-Dimethylphenol           | 107   |     | 10.901 | 10.901 | (0.942) | 318040   | 8.28282        | 8.283     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.096 | 11.096 | (0.959) | 170784   | 4.78082        | 4.781     |
| 24 Benzoic acid                 | 105   |     | 11.113 | 11.105 | (0.960) | 483940   | 21.5577        | 21.56     |
| 25 2,4-Dichlorophenol           | 162   |     | 11.308 | 11.308 | (0.977) | 360504   | 11.7324        | 11.73     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.487 | 11.487 | (0.993) | 181735   | 5.03854        | 5.039     |
| * 27 Naphthalene-d8             | 136   |     | 11.572 | 11.572 | (1.000) | 422030   | 4.00000        |           |
| 28 Naphthalene                  | 128   |     | 11.619 | 11.618 | (1.004) | 535062   | 4.78580        | 4.786     |
| 29 4-Chloroaniline              | 127   |     | 11.750 | 11.750 | (1.015) | 448003   | 10.2715        | 10.27     |
| 30 Hexachlorobutadiene          | 225   |     | 11.974 | 11.981 | (1.035) | 110118   | 5.21038        | 5.210     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.717 | 12.717 | (1.099) | 337651   | 10.1507        | 10.15     |
| 32 2-Methylnaphthalene          | 142   |     | 13.011 | 13.018 | (1.124) | 423511   | 5.24908        | 5.249     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.475 | 13.483 | (0.886) | 39462    | 1.74290        | 1.743     |



| Compounds                         | QUANT SIG |        |        |         |          | CONCENTRATIONS       |                  |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 13.638 | 13.638 | (0.897) | 264698   | 10.9471              | 10.95            |
| 35 2,4,5-Trichlorophenol          | 196       | 13.715 | 13.715 | (0.902) | 289618   | 10.7797              | 10.78            |
| § 36 2-Fluorobiphenyl             | 172       | 13.800 | 13.800 | (0.908) | 469782   | 4.85440              | 4.854            |
| 37 2-Chloronaphthalene            | 162       | 14.009 | 14.009 | (0.922) | 378696   | 4.83283              | 4.833            |
| 38 2-Nitroaniline                 | 65        | 14.272 | 14.272 | (0.939) | 204703   | 9.29997              | 9.300            |
| 39 Dimethylphthalate              | 163       | 14.706 | 14.706 | (0.967) | 407667   | 5.12953              | 5.130            |
| 40 Acenaphthylene                 | 152       | 14.884 | 14.884 | (0.979) | 650735   | 5.32942              | 5.329            |
| 41 2,6-Dinitrotoluene             | 165       | 14.845 | 14.845 | (0.977) | 191235   | 11.1388              | 11.14            |
| * 42 Acenaphthene-d10             | 164       | 15.201 | 15.201 | (1.000) | 244644   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138       | 15.131 | 15.131 | (0.995) | 200274   | 10.3352              | 10.34            |
| 44 Acenaphthene                   | 153       | 15.263 | 15.263 | (1.004) | 361592   | 4.79357              | 4.794            |
| 45 2,4-Dinitrophenol              | 184       | 15.340 | 15.348 | (1.009) | 201353   | 18.7103              | 18.71            |
| 46 Dibenzofuran                   | 168       | 15.595 | 15.595 | (1.026) | 537334   | 4.83054              | 4.831            |
| 47 4-Nitrophenol                  | 109       | 15.464 | 15.464 | (1.017) | 101040   | 8.33322              | 8.333            |
| 48 2,4-Dinitrotoluene             | 165       | 15.657 | 15.657 | (1.030) | 260002   | 10.1788              | 10.18            |
| 50 Diethylphthalate               | 149       | 16.167 | 16.175 | (1.064) | 459549   | 5.89342              | 5.893            |
| 49 Fluorene                       | 166       | 16.314 | 16.314 | (1.073) | 437324   | 4.99723              | 4.997            |
| 51 4-Chlorophenyl-phenylether     | 204       | 16.299 | 16.306 | (1.072) | 208395   | 5.00766              | 5.008            |
| 52 4-Nitroaniline                 | 138       | 16.406 | 16.406 | (1.079) | 189891   | 10.8738              | 10.87            |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 16.499 | 16.507 | (0.904) | 268362   | 18.9651              | 18.97            |
| 54 N-Nitrosodiphenylamine         | 169       | 16.553 | 16.561 | (0.907) | 287756   | 4.69189              | 4.692            |
| § 55 2,4,6-Tribromophenol         | 330       | 16.846 | 16.846 | (1.108) | 98341    | 8.64149              | 8.641            |
| 56 4-Bromophenyl-phenylether      | 248       | 17.309 | 17.316 | (0.948) | 135360   | 5.27572              | 5.276            |
| 57 Hexachlorobenzene              | 284       | 17.626 | 17.634 | (0.966) | 141647   | 5.26567              | 5.266            |
| 58 Pentachlorophenol              | 266       | 17.990 | 17.990 | (0.986) | 171062   | 10.5331              | 10.53            |
| * 59 Phenanthrene-d10             | 188       | 18.253 | 18.260 | (1.000) | 458729   | 4.00000              |                  |
| 60 Phenanthrene                   | 178       | 18.299 | 18.307 | (1.003) | 598772   | 4.78690              | 4.787            |
| 61 Anthracene                     | 178       | 18.400 | 18.400 | (1.008) | 609453   | 5.07923              | 5.079            |
| 62 Carbazole                      | 167       | 18.732 | 18.732 | (1.026) | 549337   | 5.10909              | 5.109            |
| 63 Di-n-butylphthalate            | 149       | 19.537 | 19.545 | (1.070) | 756582   | 5.26273              | 5.263            |
| 64 Fluoranthene                   | 202       | 20.705 | 20.713 | (0.887) | 733927   | 4.10019              | 4.100            |
| 65 Pyrene                         | 202       | 21.139 | 21.139 | (0.905) | 763517   | 4.15813              | 4.158            |
| § 66 Terphenyl-d14                | 244       | 21.425 | 21.433 | (0.918) | 621275   | 4.50541              | 4.505            |
| 67 Butylbenzylphthalate           | 149       | 22.370 | 22.377 | (0.958) | 325575   | 4.89642              | 4.896            |
| 68 Benzo(a)anthracene             | 228       | 23.314 | 23.322 | (0.999) | 757898   | 4.82007              | 4.820            |
| * 69 Chrysene-d12                 | 240       | 23.345 | 23.353 | (1.000) | 445472   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252       | 23.276 | 23.283 | (0.997) | 835760   | 16.5939              | 16.59            |
| 71 Chrysene                       | 228       | 23.392 | 23.399 | (1.002) | 704000   | 4.58278              | 4.583            |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 23.407 | 23.415 | (0.959) | 472508   | 4.50969              | 4.510            |
| * 134 Di-n-octylphthalate-d4      | 153       | 24.406 | 24.421 | (1.000) | 714340   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149       | 24.421 | 24.437 | (1.001) | 860321   | 4.60218              | 4.602            |
| 74 Benzo(b)fluoranthene           | 252       | 25.242 | 25.250 | (0.970) | 793424   | 5.06443              | 5.064            |
| 75 Benzo(k)fluoranthene           | 252       | 25.288 | 25.296 | (0.972) | 851670   | 5.35367              | 5.354            |
| 76 Benzo(a)pyrene                 | 252       | 25.908 | 25.923 | (0.996) | 721175   | 5.14874              | 5.149            |
| * 77 Perylene-d12                 | 264       | 26.024 | 26.040 | (1.000) | 483312   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 28.777 | 28.793 | (1.106) | 754844   | 4.23593              | 4.236            |
| 79 Dibenzo(a,h)anthracene         | 278       | 28.793 | 28.816 | (1.106) | 654511   | 4.42399              | 4.424            |
| 80 Benzo(g,h,i)perylene           | 276       | 29.577 | 29.601 | (1.137) | 582203   | 3.77520              | 3.775            |
| 90 N-Nitrosodimethylamine         | 74        | 4.673  | 4.665  | (0.514) | 201507   | 9.01977              | 9.020            |
| 91 Aniline                        | 93        | 8.543  | 8.543  | (0.940) | 456512   | 9.33302              | 9.333            |
| 93 Benzidine                      | 184       | 20.945 | 20.953 | (0.897) | 416688   | 5.66724              | 5.667            |
| 103 Pyridine                      | 79        | 4.696  | 4.696  | (0.517) | 313008   | 9.12280              | 9.123            |
| 105 1-methylnaphthalene           | 142       | 13.235 | 13.235 | (1.144) | 375736   | 5.08283              | 5.083            |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 16.630 | 16.630 | (1.094) | 377672   | 4.33583              | 4.336            |

| Compounds                     | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                               |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       | 25.242 | 25.296 | (0.970) | 1568584  | 10.3698              | 10.37            |
| 120 2,3,4,6-Tetrachlorophenol | 232       | 15.935 | 15.935 | (1.048) | 139401   | 5.46295              | 5.463            |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-MAR-2023  
 Lab File ID: NT1003222333.D Calibration Time: 03:15  
 Lab Smp Id: SLC0397-CCV1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 137603   | 68802      | 275206  | 115795 | -15.85 |
| 27 Naphthalene-d8     | 494588   | 247294     | 989176  | 422030 | -14.67 |
| 42 Acenaphthene-d10   | 278674   | 139337     | 557348  | 244644 | -12.21 |
| 59 Phenanthrene-d10   | 509229   | 254615     | 1018458 | 458729 | -9.92  |
| 69 Chrysene-d12       | 462271   | 231136     | 924542  | 445472 | -3.63  |
| 134 Di-n-octylphthala | 782572   | 391286     | 1565144 | 714340 | -8.72  |
| 77 Perylene-d12       | 551153   | 275577     | 1102306 | 483312 | -12.31 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.09     | 8.59     | 9.59  | 9.09   | 0.00  |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.57  | 0.00  |
| 42 Acenaphthene-d10   | 15.20    | 14.70    | 15.70 | 15.20  | 0.00  |
| 59 Phenanthrene-d10   | 18.26    | 17.76    | 18.76 | 18.25  | -0.04 |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.35  | -0.03 |
| 134 Di-n-octylphthala | 24.42    | 23.92    | 24.92 | 24.41  | -0.06 |
| 77 Perylene-d12       | 26.04    | 25.54    | 26.54 | 26.02  | -0.06 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222333.D

Lab ID: SLC0397-CCV1  
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 13:22

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

---

NONE

RRT check based on Ccal File: NT1003222317.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

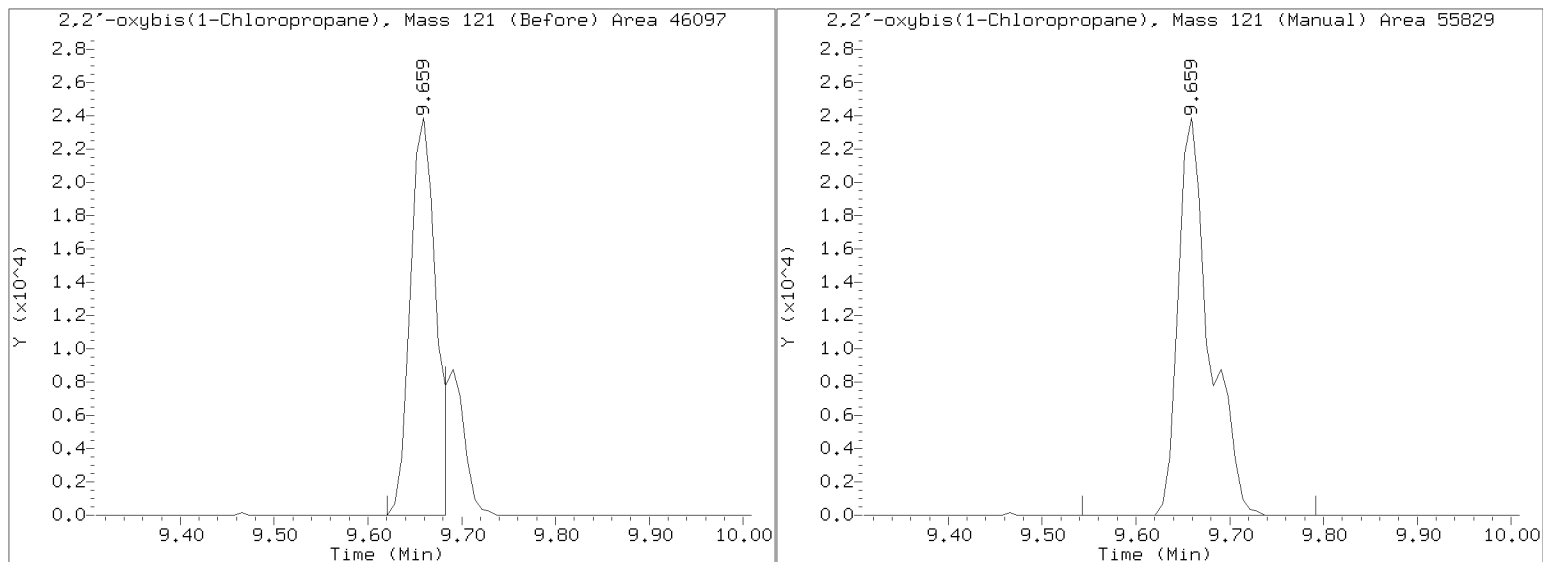
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222333.D

Injection Date: 23-MAR-2023 13:22

Lab ID: SLC0397-CCV1 Client ID:

Report Date: 03/25/2023 10:14





**LOW-CONCENTRATION  
CONTINUING CALIBRATION CHECK  
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT10

Calibration: GC00046

Lab File ID: NT1003222304.D

Calibration Date: 03/15/2023

Sequence: SLC0397

Injection Date: 03/22/23

Lab Sample ID: SLC0397-LCV1

Injection Time: 18:59

Sequence Name: ABN 0.2

| COMPOUND                    | TYPE | CONC. (ug/mL) |       | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|-----------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|-------|
|                             |      | STD           | CCV   | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Phenol                      | A    | 0.20000       | 0.2   | 1.6490140             | 1.5427190 |     | -6.4         | +/-50 |
| 4-Methylphenol              | A    | 0.20000       | 0.2   | 1.2665770             | 1.1206710 |     | -11.5        | +/-50 |
| Naphthalene                 | A    | 0.20000       | 0.2   | 1.0596590             | 1.1138270 |     | 5.1          | +/-50 |
| 2-Methylnaphthalene         | A    | 0.20000       | 0.2   | 0.7647129             | 0.8165634 |     | 6.8          | +/-50 |
| Acenaphthylene              | A    | 0.20000       | 0.2   | 1.9964080             | 1.9788380 |     | -0.9         | +/-50 |
| Dimethylphthalate           | A    | 0.20000       | 0.2   | 1.2994310             | 1.3241070 |     | 1.9          | +/-50 |
| Acenaphthene                | A    | 0.20000       | 0.2   | 1.2333460             | 1.2205790 |     | -1.0         | +/-50 |
| Dibenzofuran                | A    | 0.20000       | 0.2   | 1.8187540             | 1.8497910 |     | 1.7          | +/-50 |
| Fluorene                    | A    | 0.20000       | 0.2   | 1.4308680             | 1.5068750 |     | 5.3          | +/-50 |
| Phenanthrene                | A    | 0.20000       | 0.2   | 1.0907130             | 1.1278710 |     | 3.4          | +/-50 |
| Anthracene                  | A    | 0.20000       | 0.2   | 1.0462760             | 0.9521428 |     | -9.0         | +/-50 |
| Fluoranthene                | A    | 0.20000       | 0.2   | 1.6072690             | 1.4728930 |     | -8.4         | +/-50 |
| Pyrene                      | A    | 0.20000       | 0.2   | 1.6487720             | 1.5084460 |     | -8.5         | +/-50 |
| Butylbenzylphthalate        | A    | 0.20000       | 0.2   | 0.5292894             | 0.5316268 |     | -8.2         | +/-50 |
| Benzo(a)anthracene          | A    | 0.20000       | 0.2   | 1.4118770             | 1.4155010 |     | 0.3          | +/-50 |
| Chrysene                    | A    | 0.20000       | 0.2   | 1.3793780             | 1.4161940 |     | 2.7          | +/-50 |
| bis(2-Ethylhexyl)phthalate  | A    | 0.20000       | 0.2   | 0.5248968             | 0.4835109 |     | -17.4        | +/-50 |
| Benzo(a)fluoranthene, Total | A    | 0.40000       | 0.4   | 1.2519020             | 1.2780630 |     | 2.1          | +/-50 |
| Benzo(a)pyrene              | A    | 0.20000       | 0.2   | 1.1592370             | 1.1874690 |     | 2.4          | +/-50 |
| Indeno(1,2,3-cd)pyrene      | A    | 0.20000       | 0.2   | 1.4748270             | 1.4548480 |     | -1.4         | +/-50 |
| Dibenzo(a,h)anthracene      | A    | 0.20000       | 0.2   | 1.2244340             | 1.2657790 |     | 3.4          | +/-50 |
| Benzo(g,h,i)perylene        | A    | 0.20000       | 0.2   | 1.2763410             | 1.3078840 |     | 2.5          | +/-50 |
| 2-Fluorophenol              | A    | 0.30000       | 0.302 | 1.2096460             | 1.2172760 |     | 0.6          | +/-50 |
| Phenol-d5                   | A    | 0.30000       | 0.275 | 1.5868760             | 1.4567700 |     | -8.2         | +/-50 |
| 2-Chlorophenol-d4           | A    | 0.30000       | 0.297 | 1.3550800             | 1.3408250 |     | -1.1         | +/-50 |
| 1,2-Dichlorobenzene-d4      | A    | 0.20000       | 0.210 | 0.9731556             | 1.0230810 |     | 5.1          | +/-50 |
| Nitrobenzene-d5             | A    | 0.20000       | 0.173 | 0.4037447             | 0.3497124 |     | -13.4        | +/-50 |
| 2-Fluorobiphenyl            | A    | 0.20000       | 0.206 | 1.5822890             | 1.6296870 |     | 3.0          | +/-50 |
| 2,4,6-Tribromophenol        | A    | 0.30000       | 0.256 | 0.1585901             | 0.1607526 |     | -14.6        | +/-50 |
| p-Terphenyl-d14             | A    | 0.20000       | 0.202 | 1.2381950             | 1.2489120 |     | 0.9          | +/-50 |

\* Values outside of QC limits

\* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222304.D

Date: 22-MAR-2023 18:59

Client ID:

Sample Info: SLC0397-LCW1

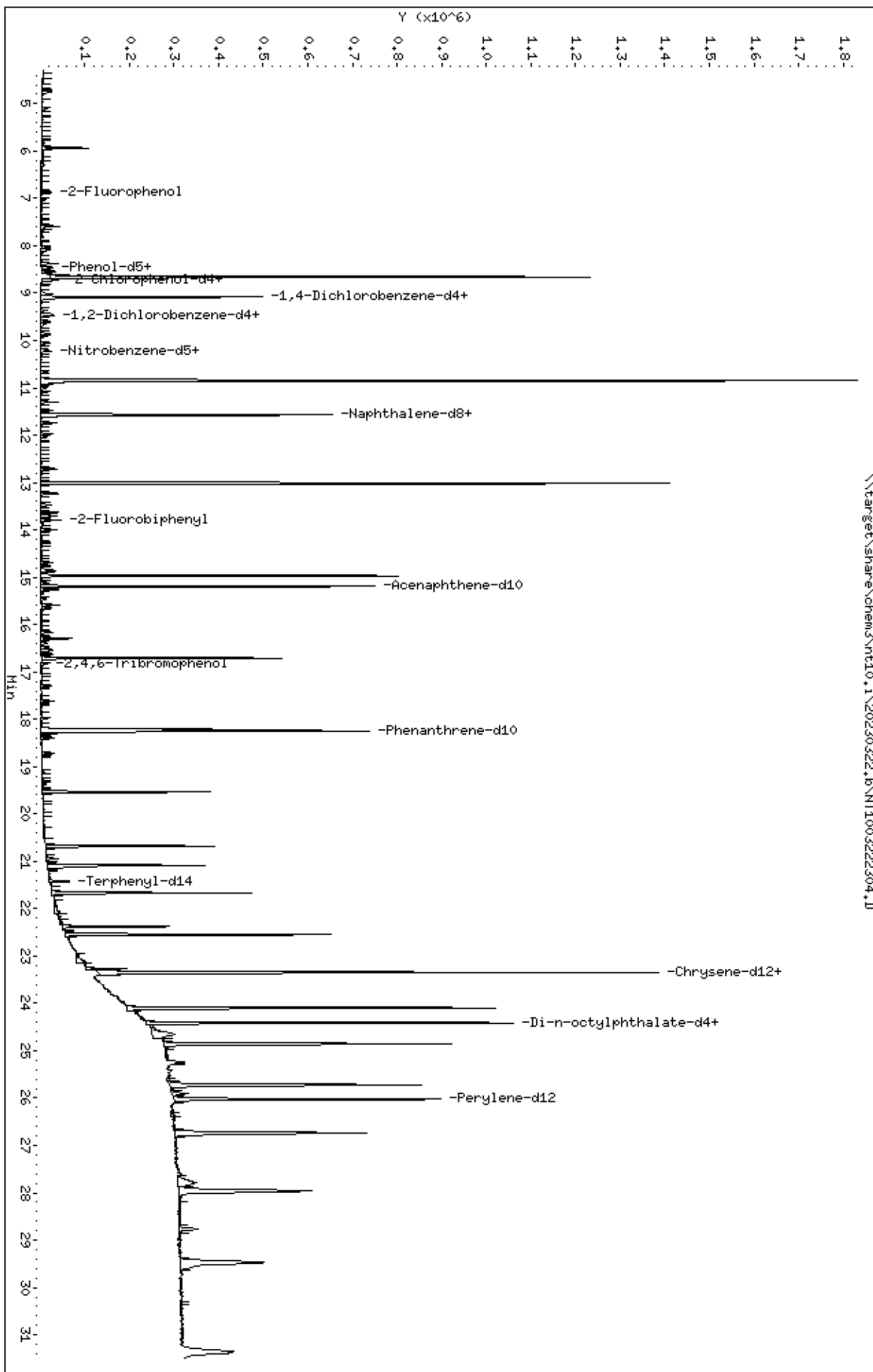
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

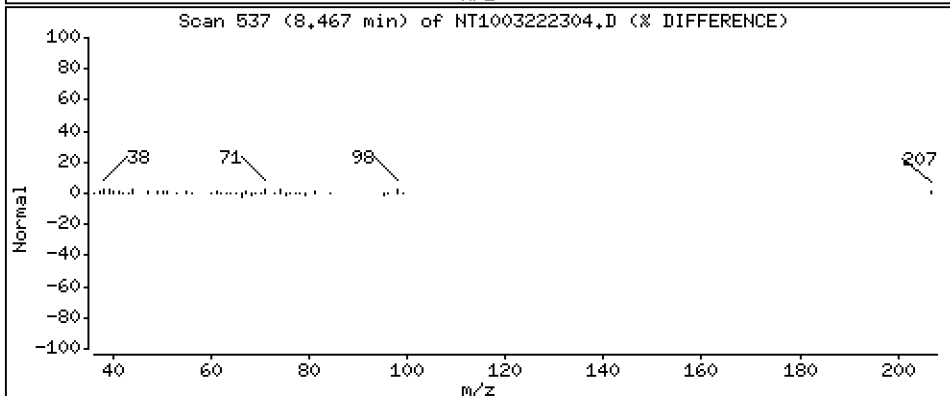
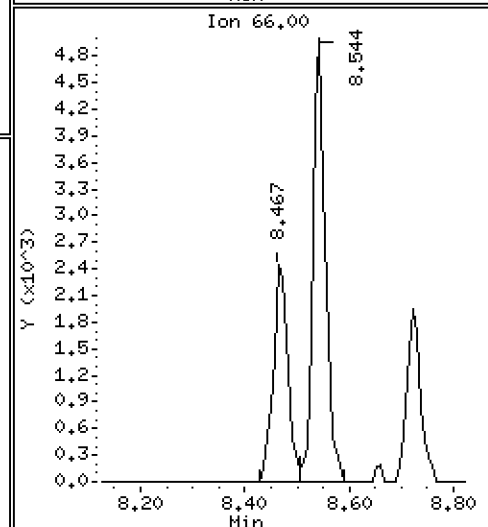
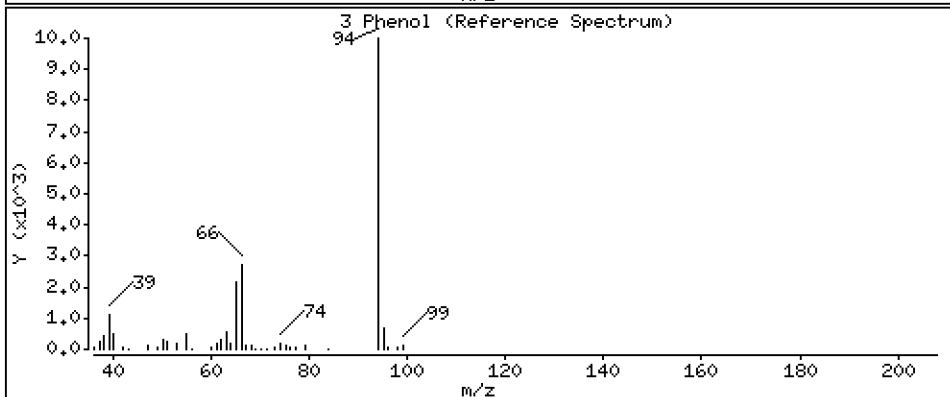
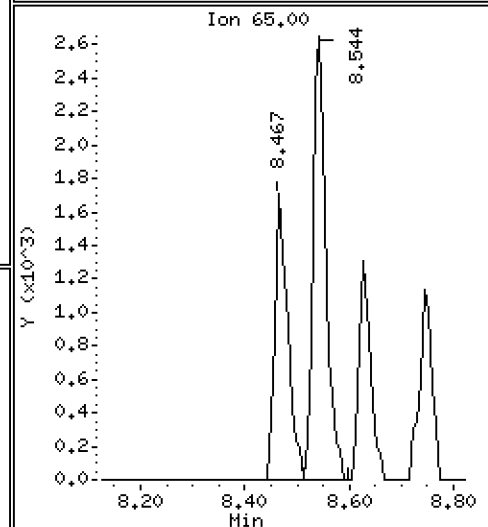
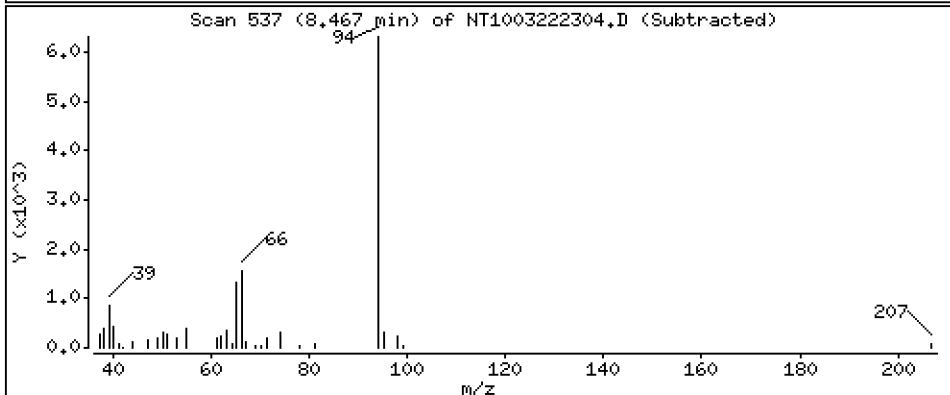
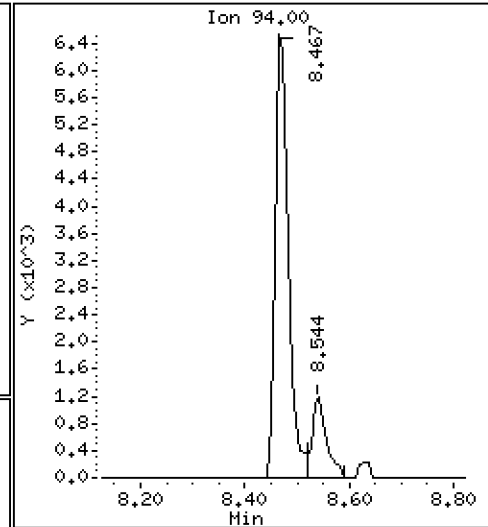
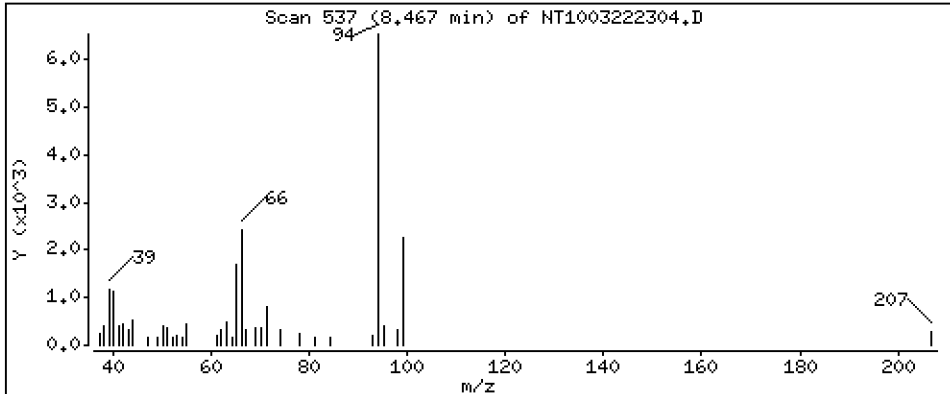
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,1871 ug/mL





Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

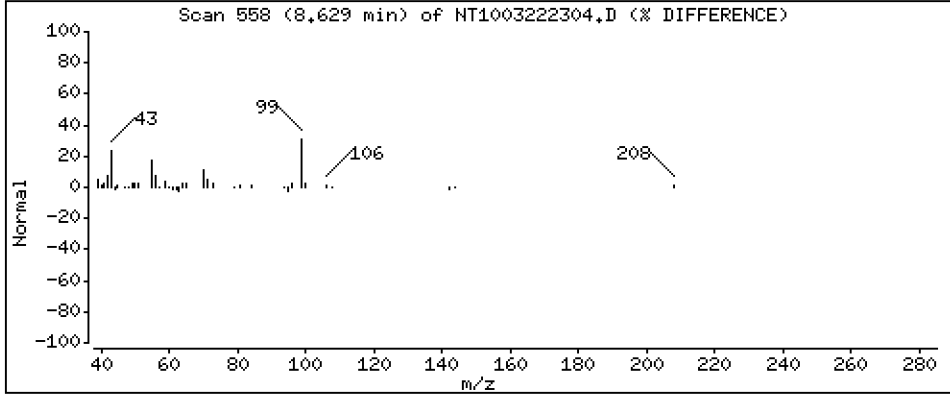
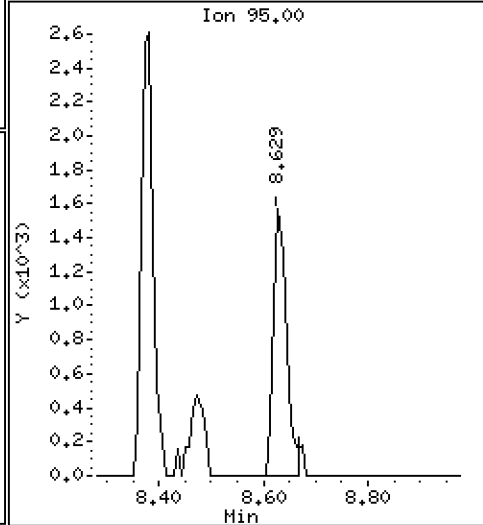
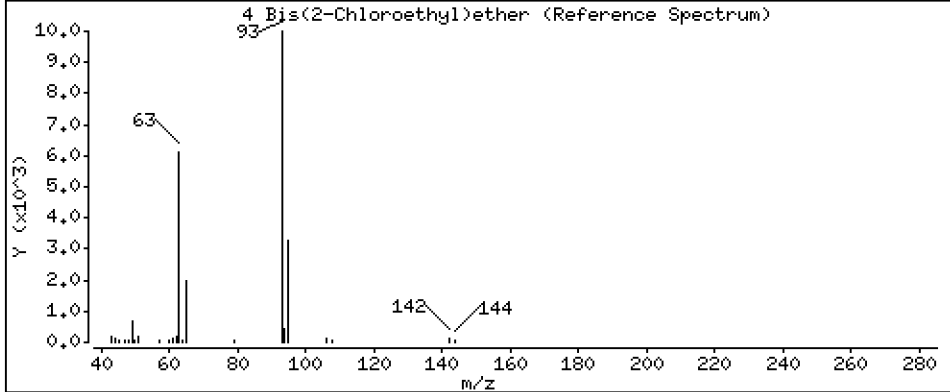
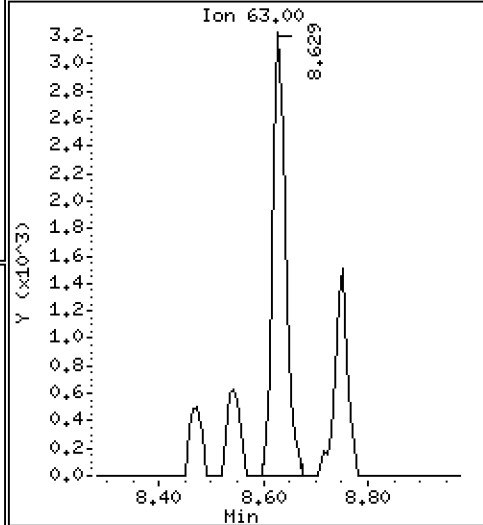
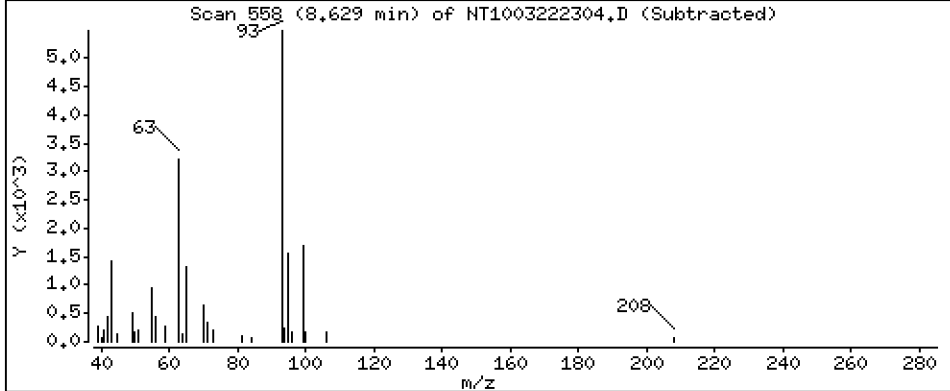
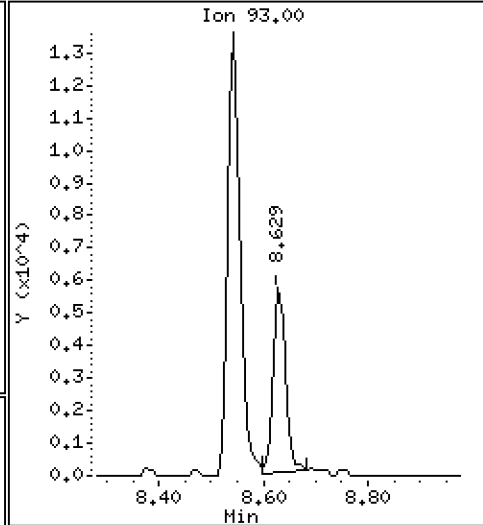
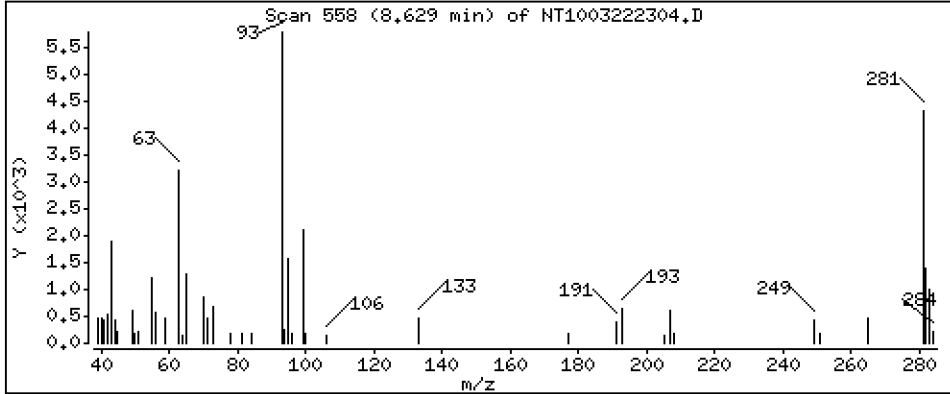
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 0.2020 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

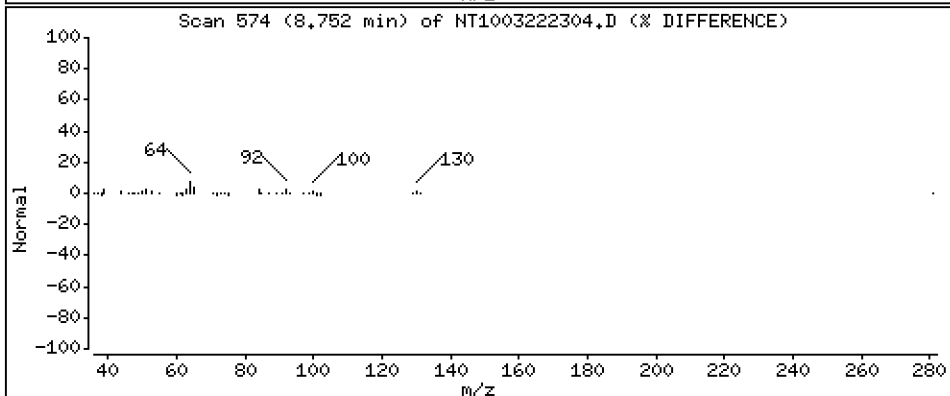
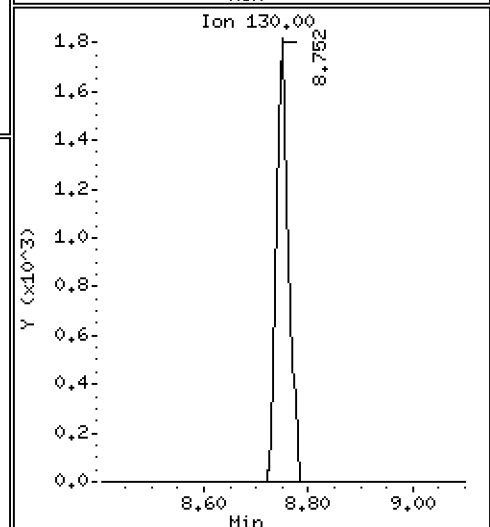
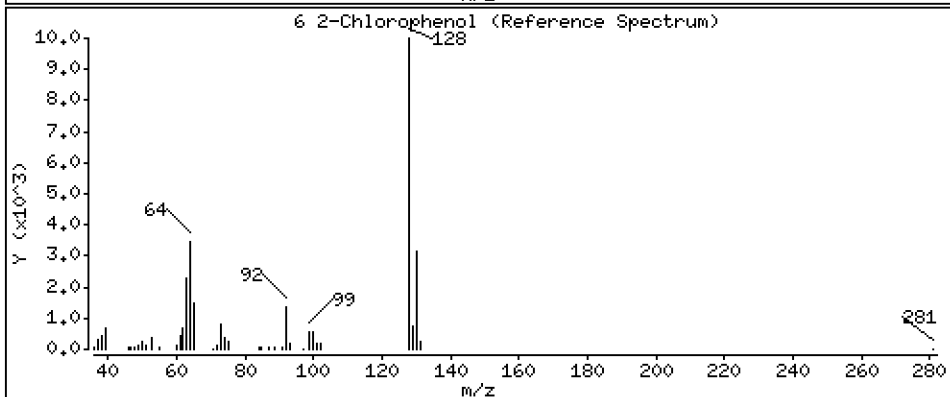
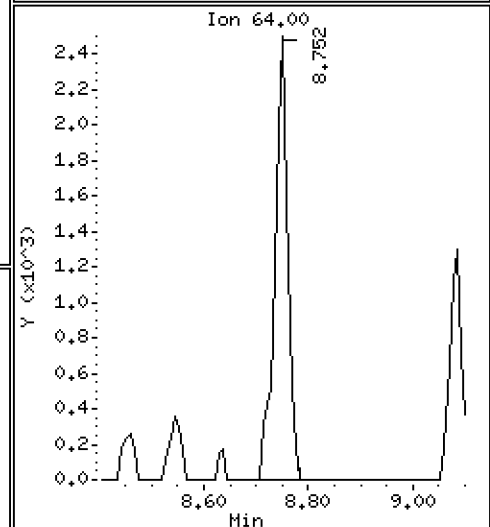
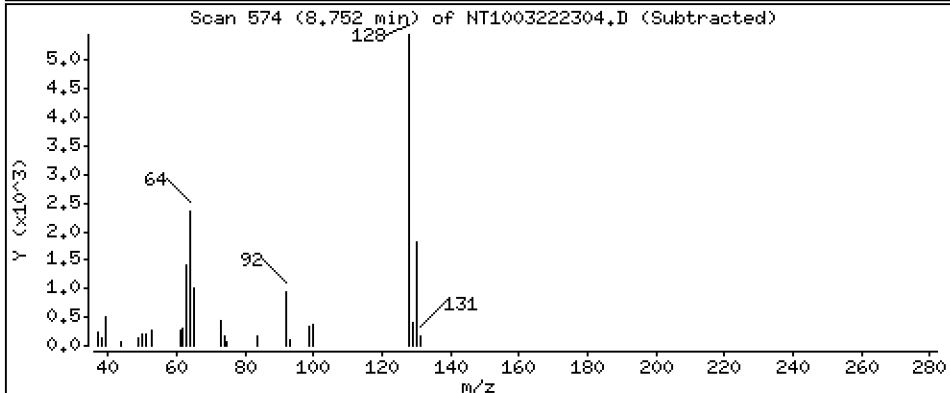
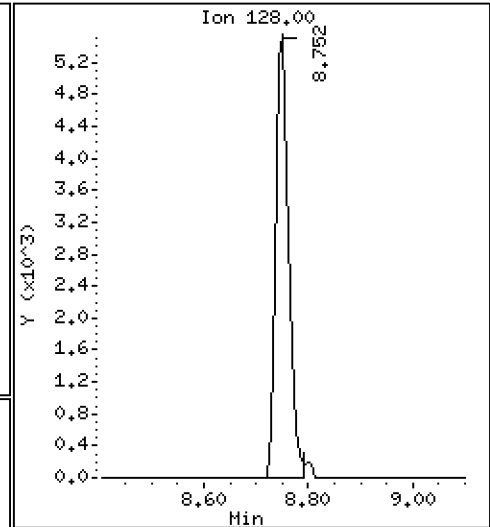
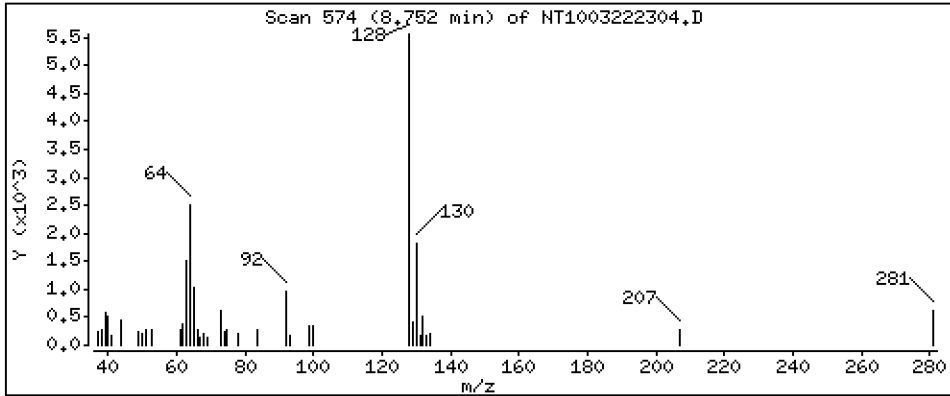
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,1878 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

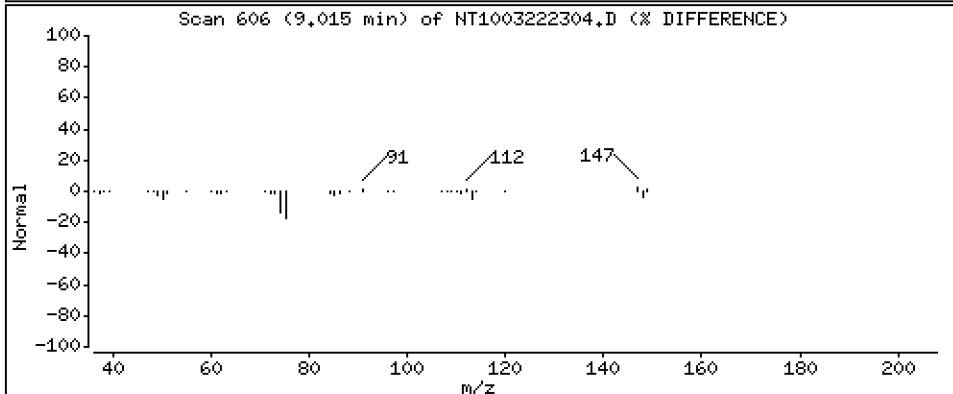
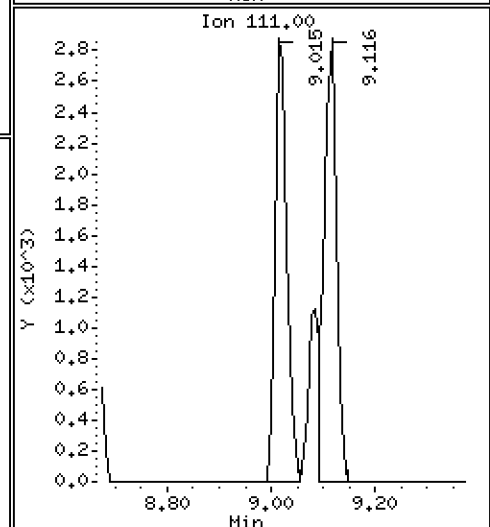
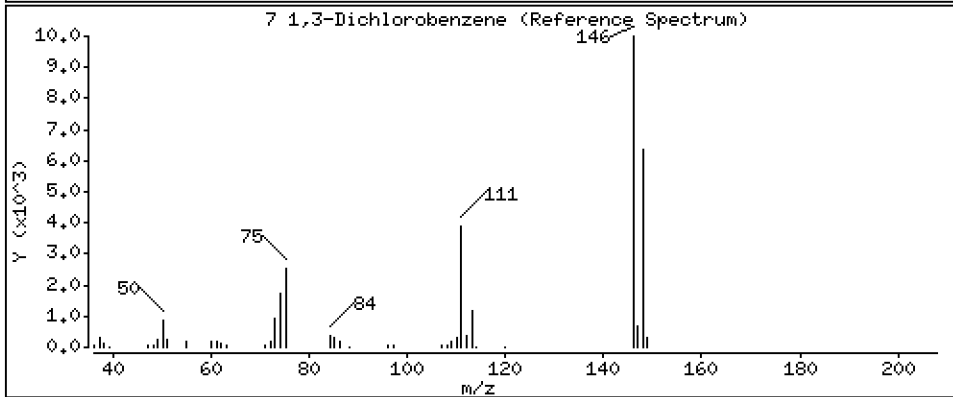
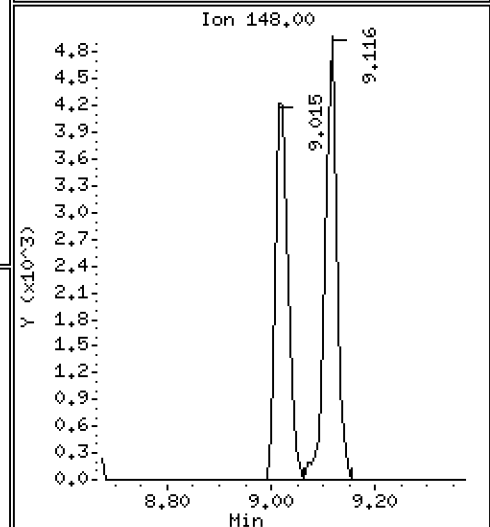
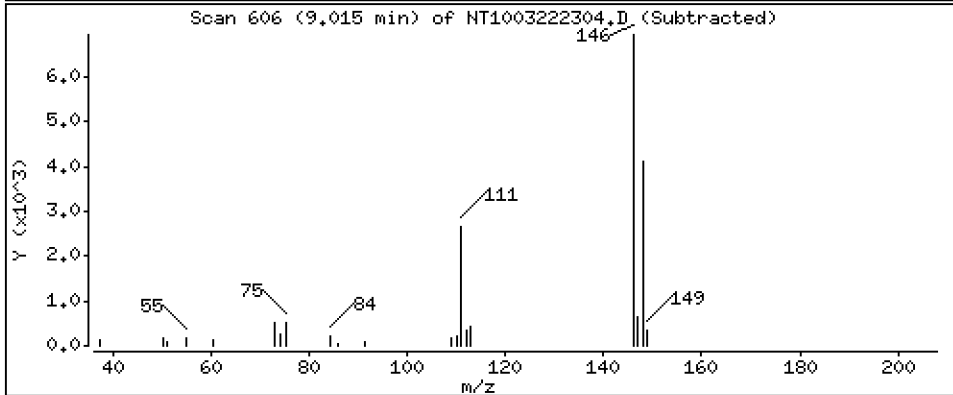
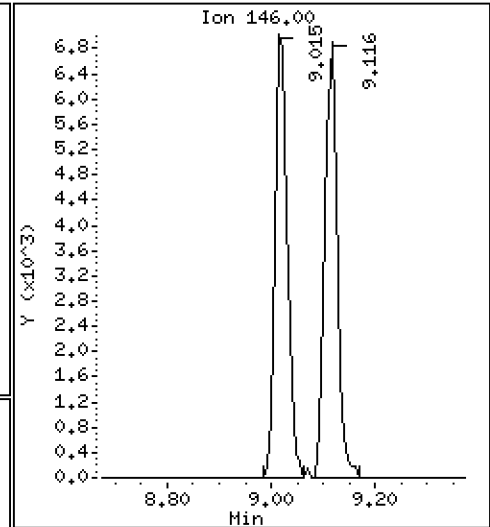
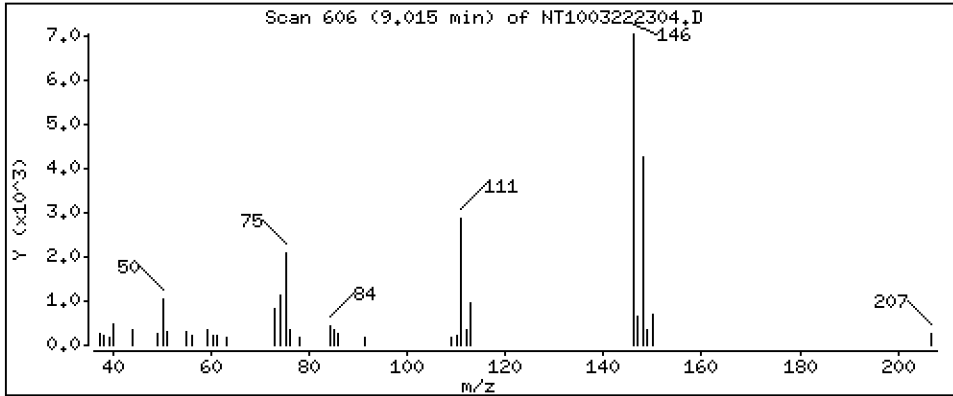
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.2192 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

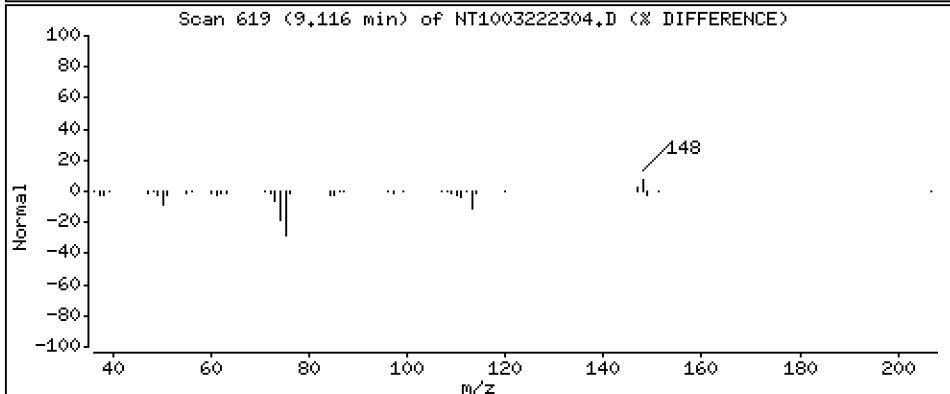
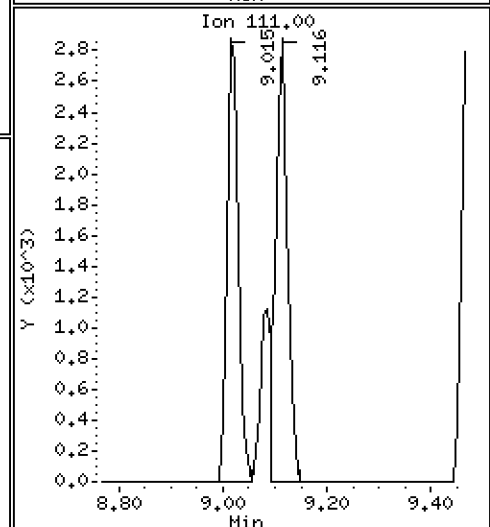
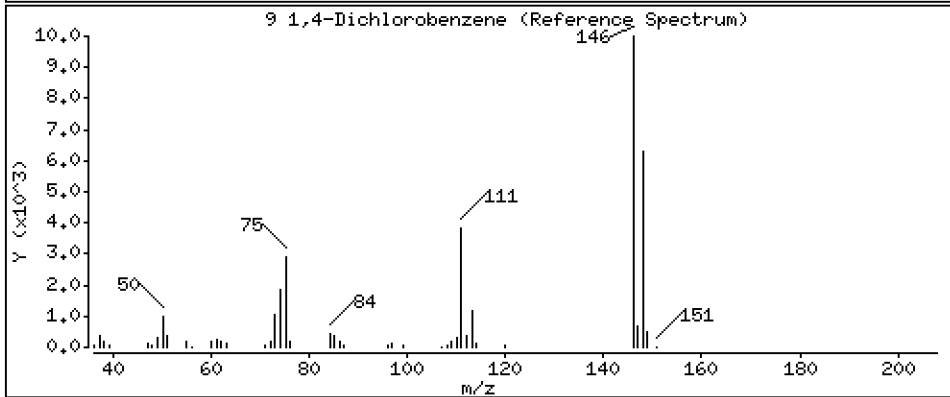
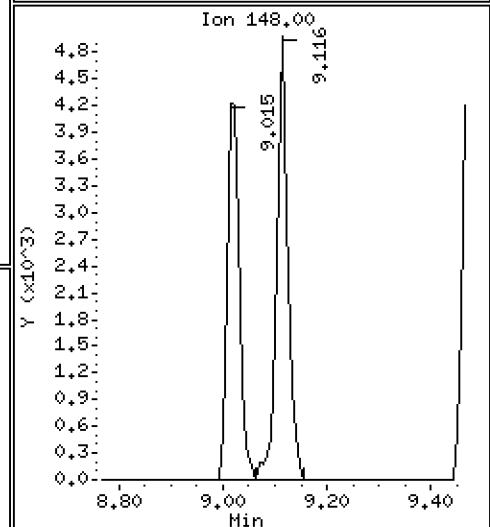
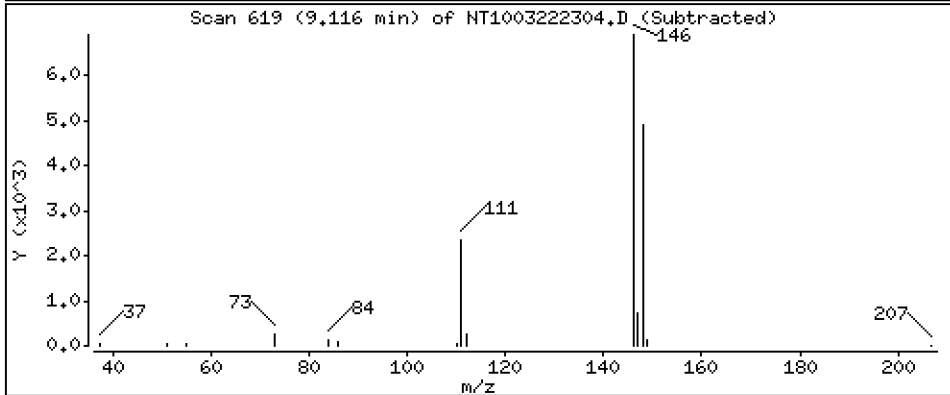
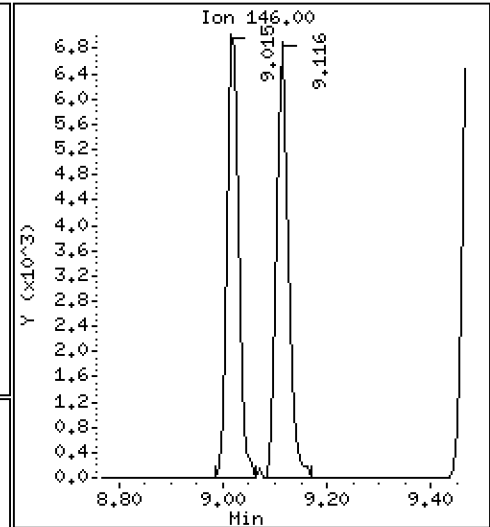
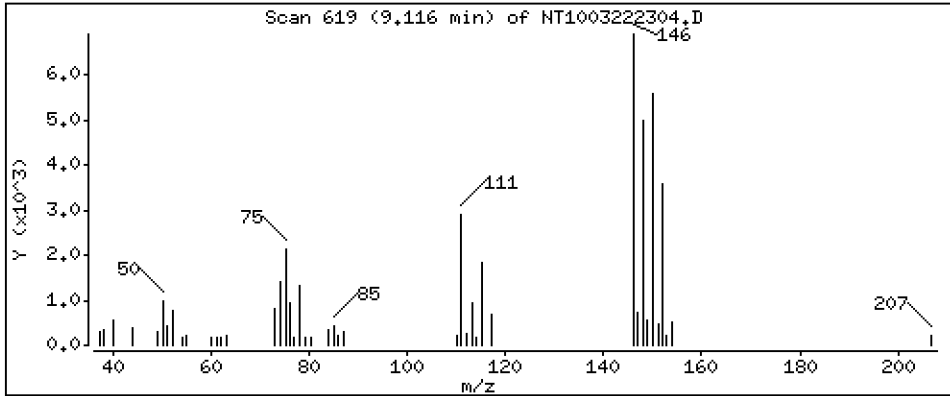
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 0.2121 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

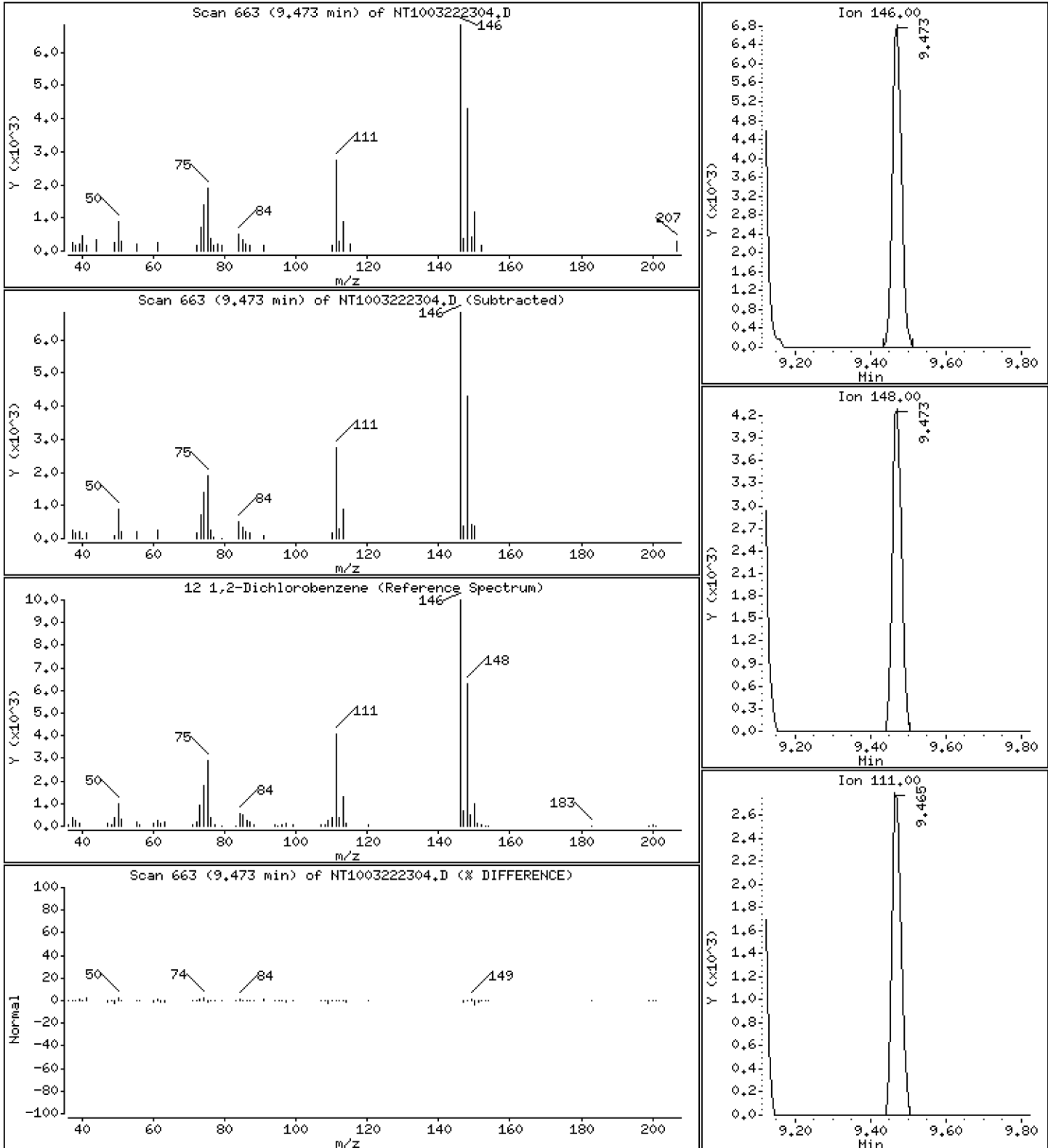
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2148 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

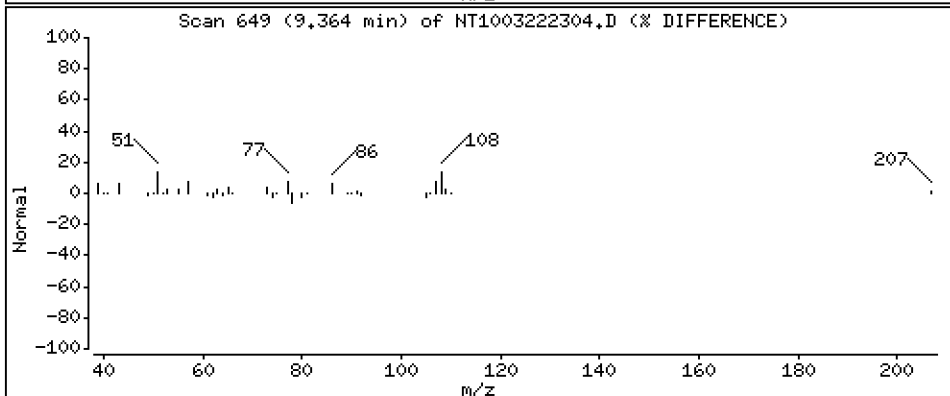
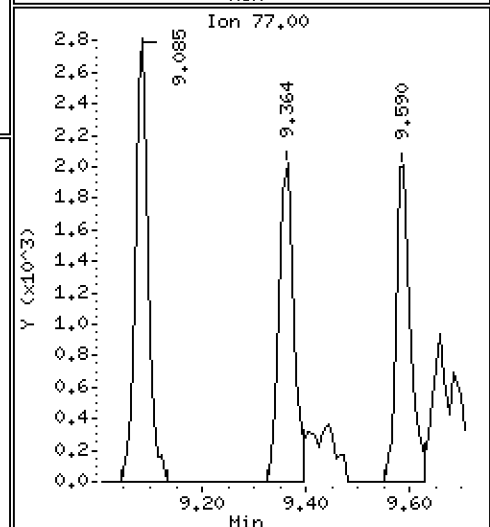
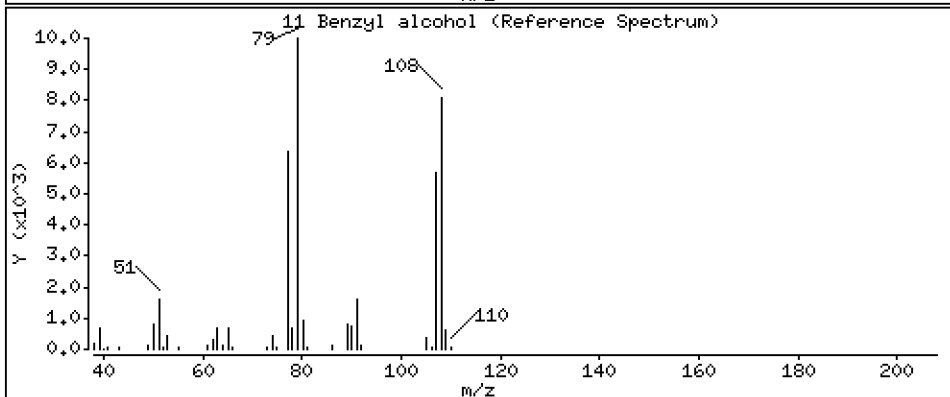
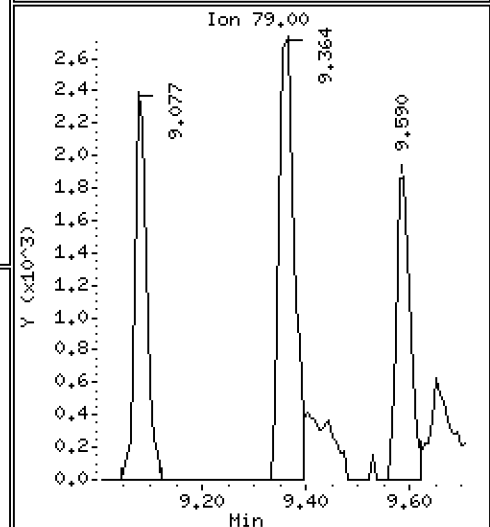
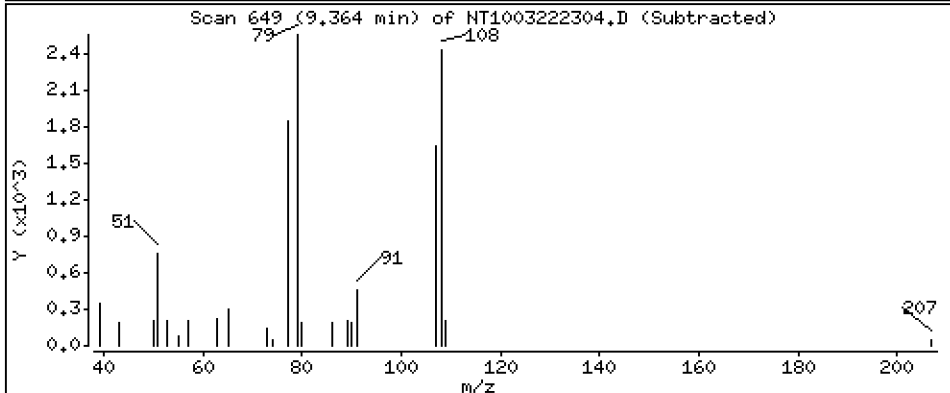
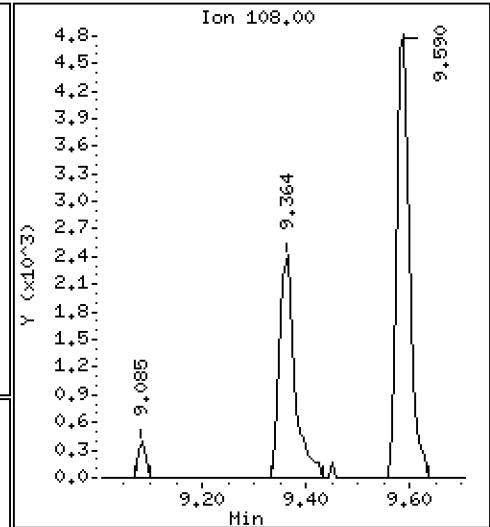
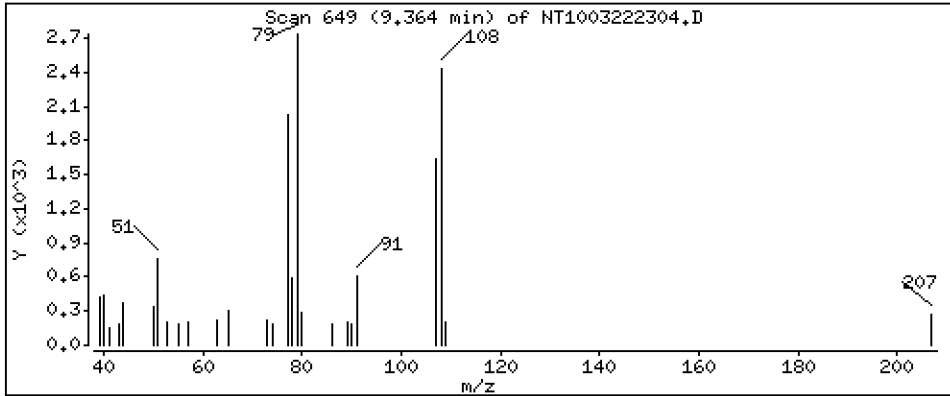
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1733 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

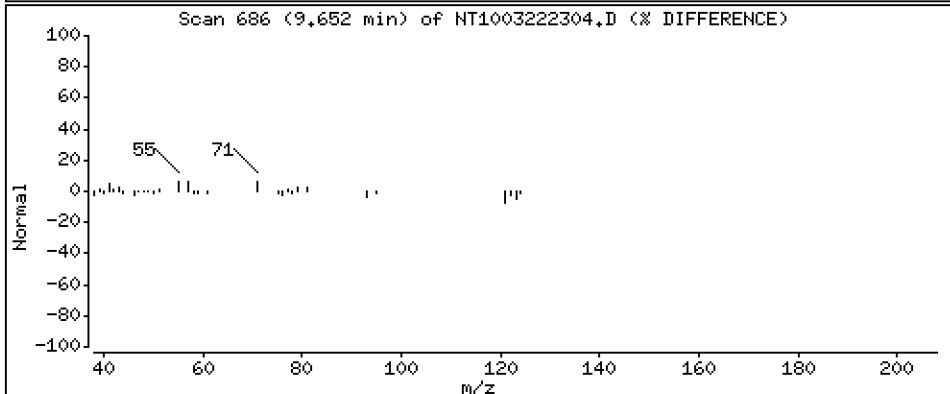
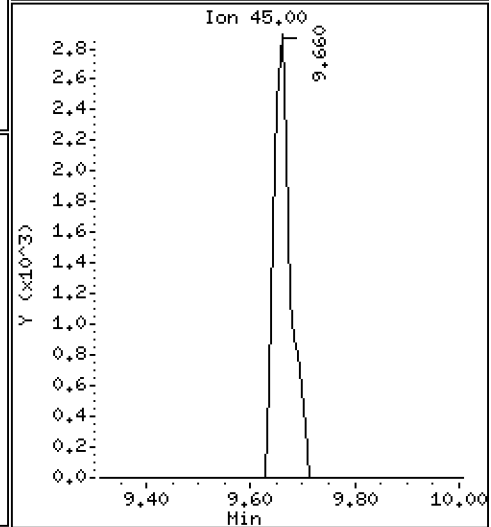
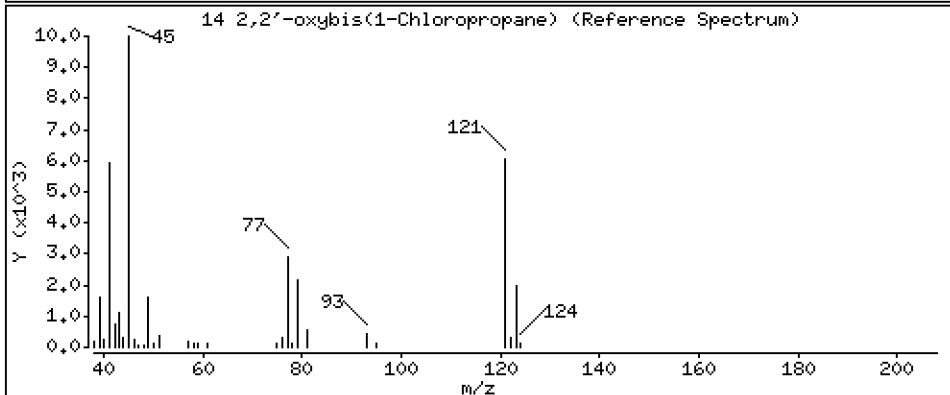
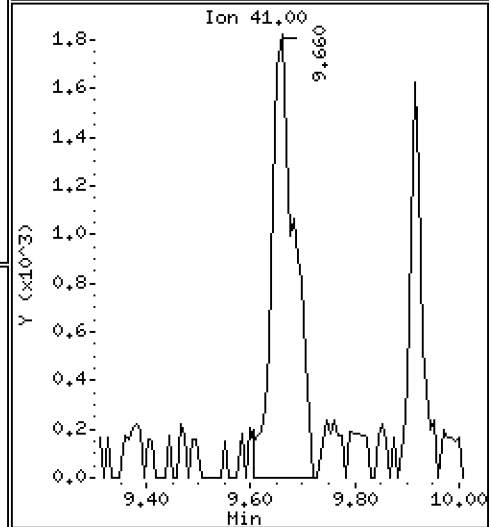
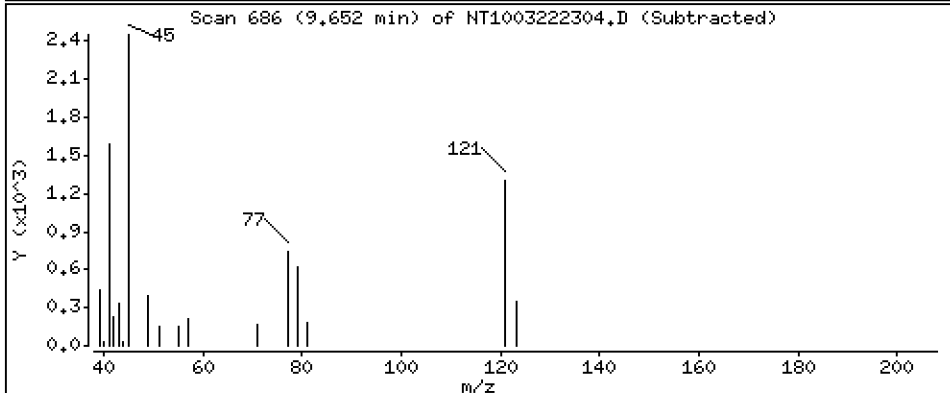
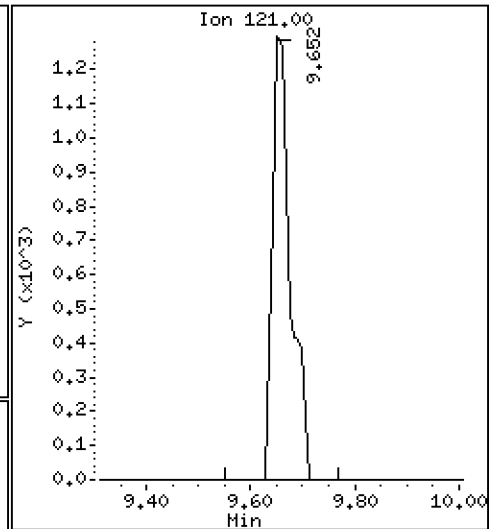
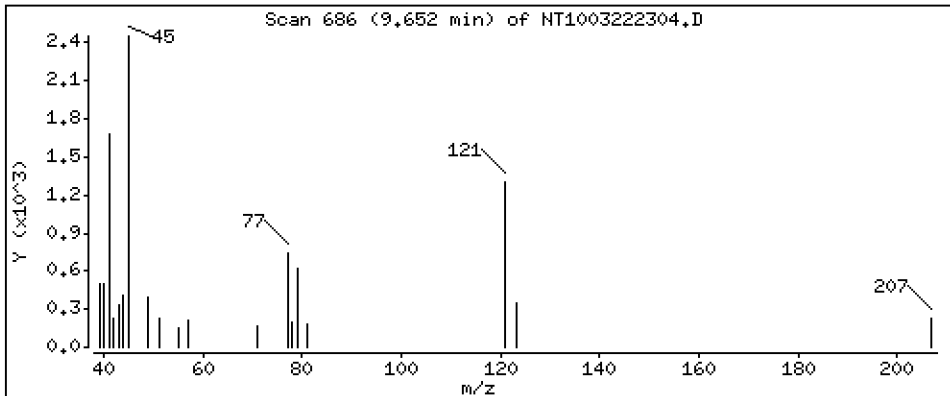
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 0.2039 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

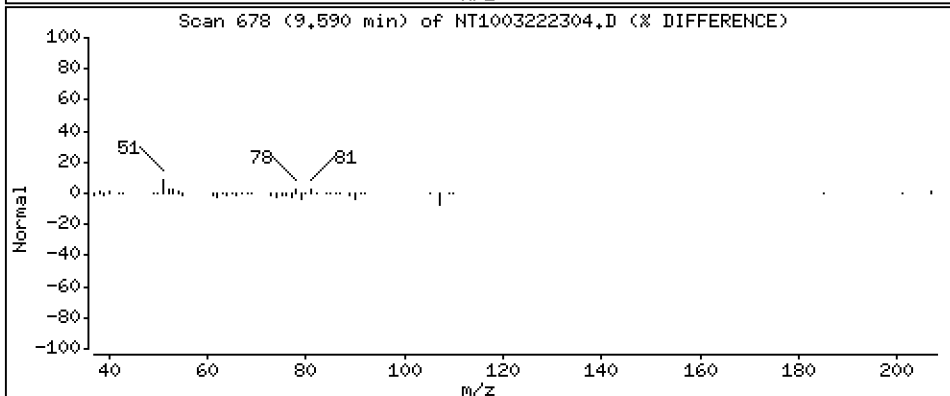
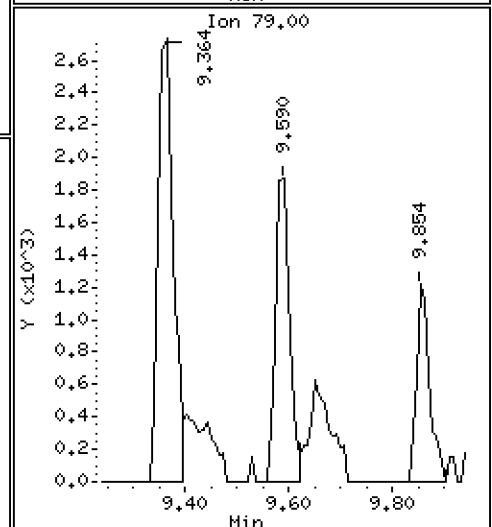
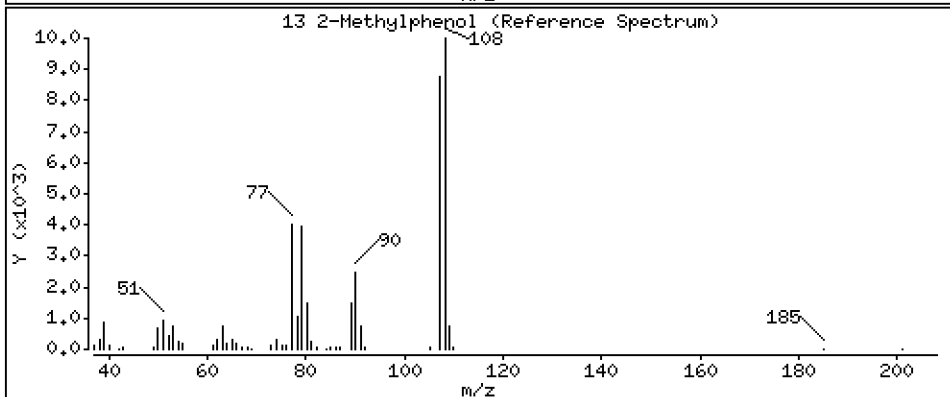
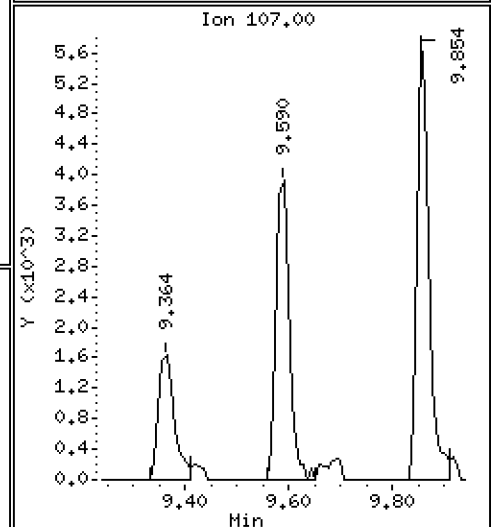
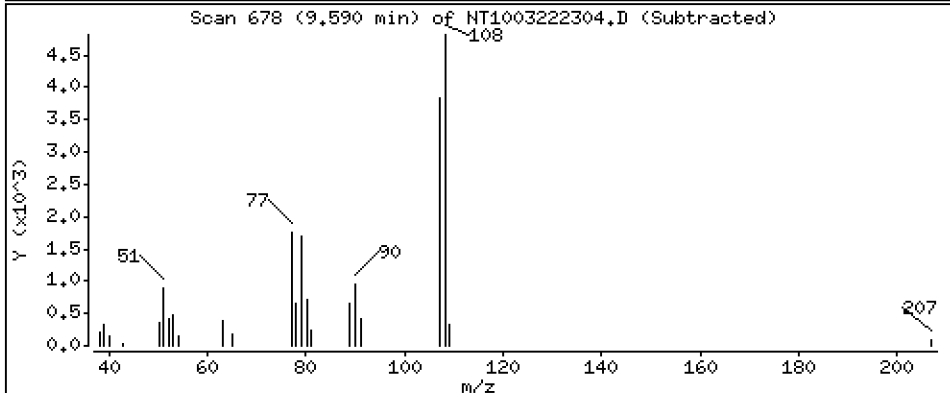
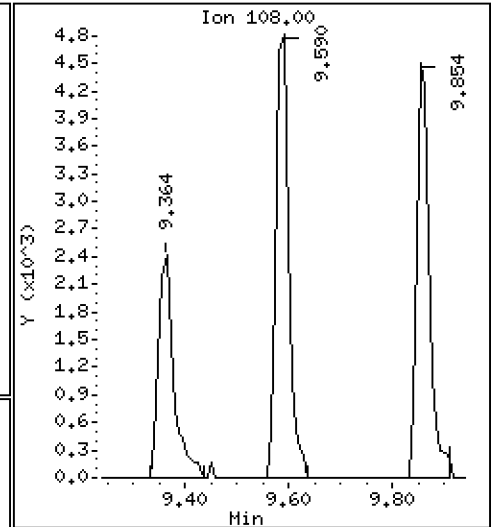
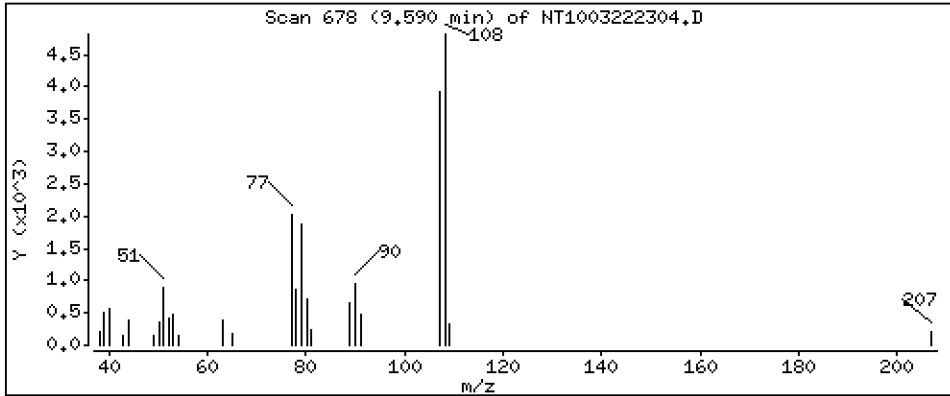
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 0,1827 ug/mL





Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

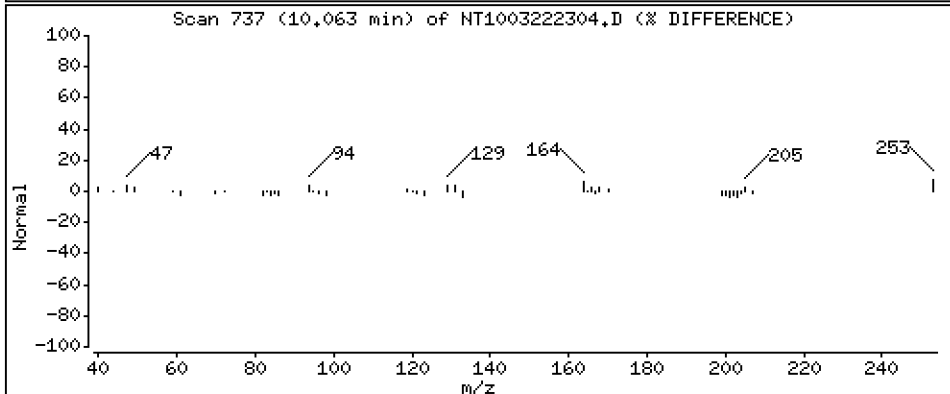
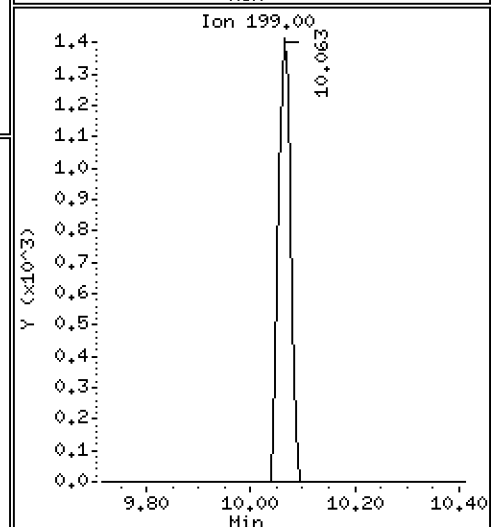
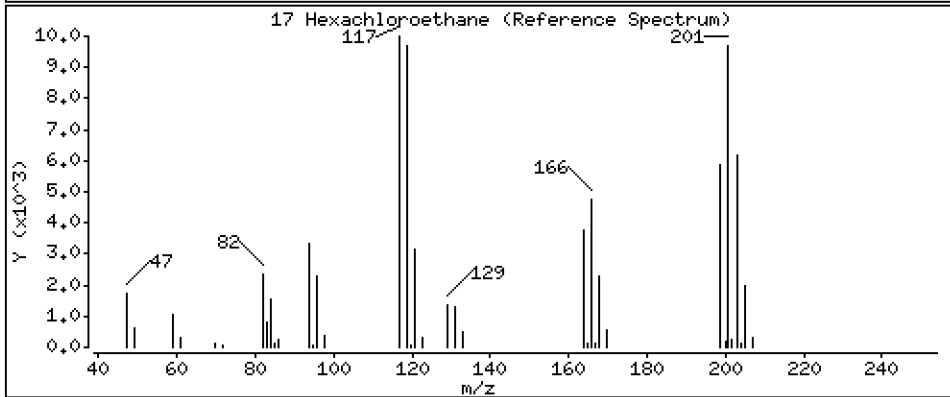
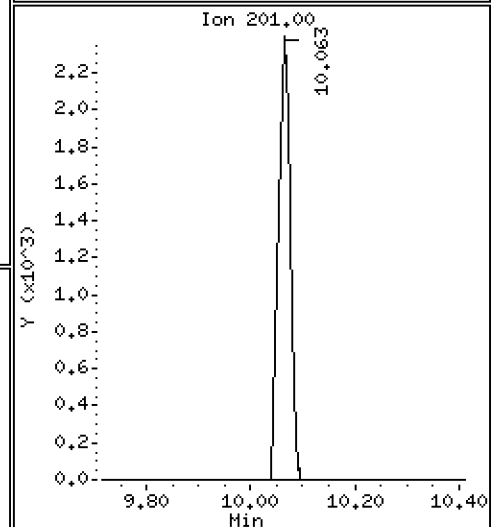
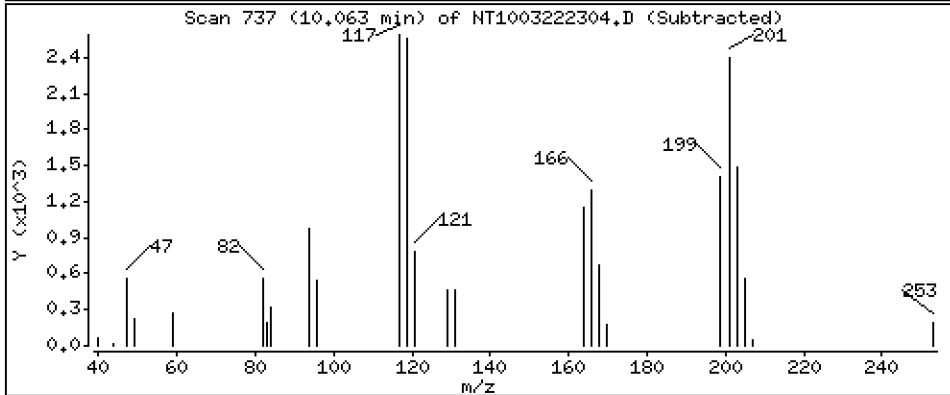
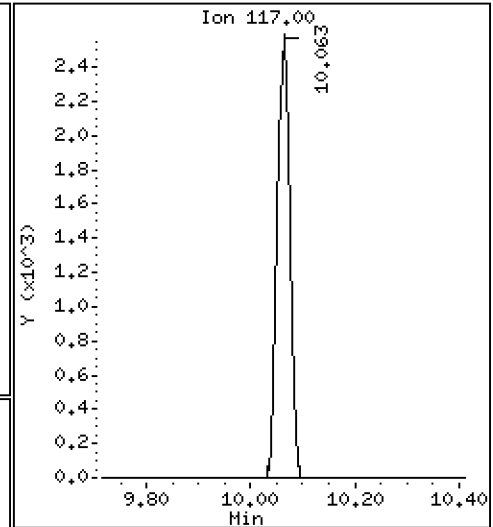
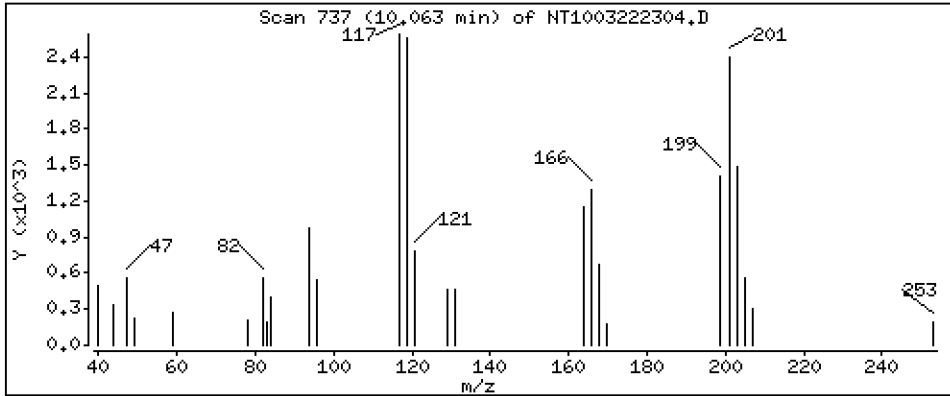
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,1954 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

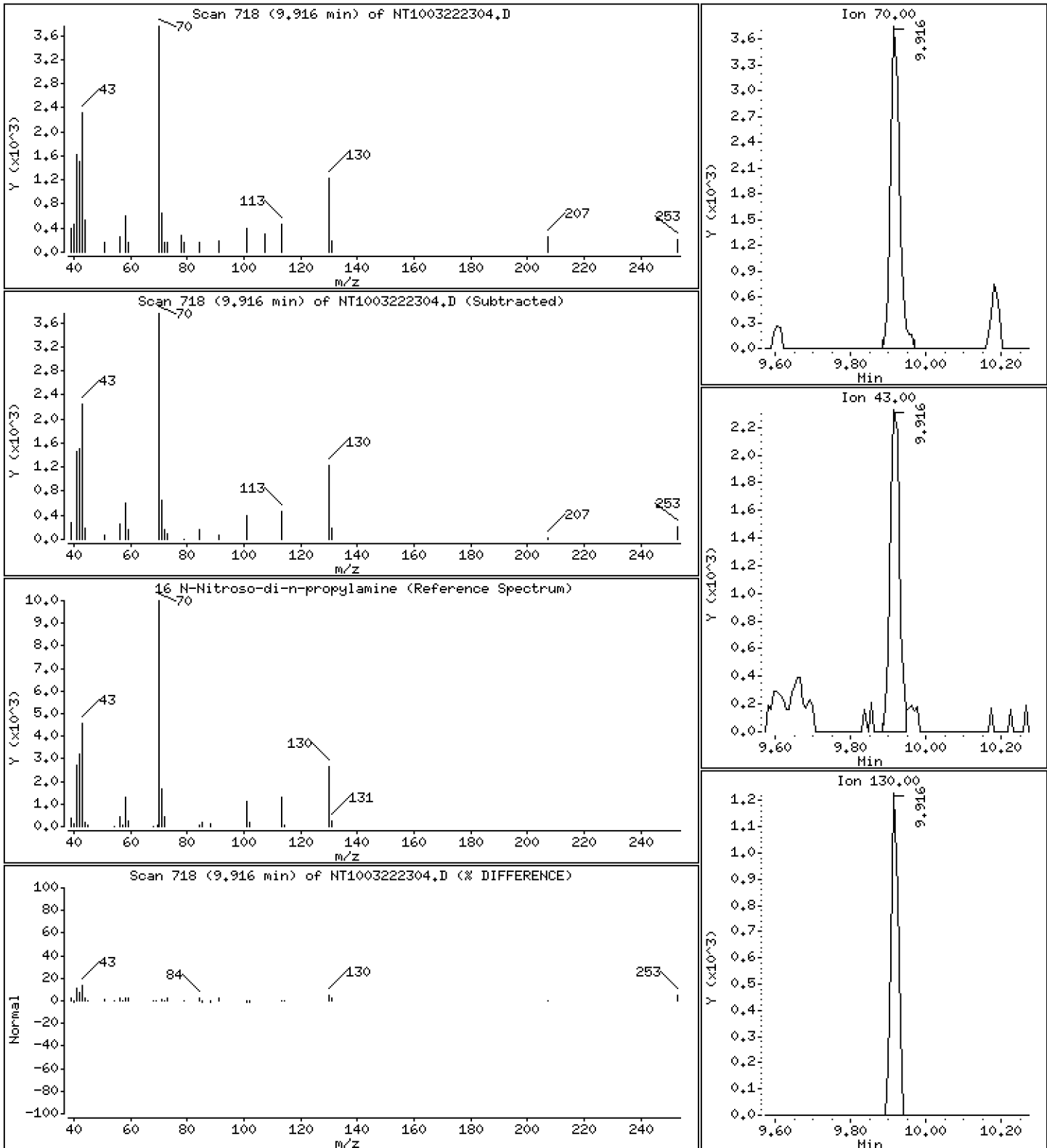
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,1733 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

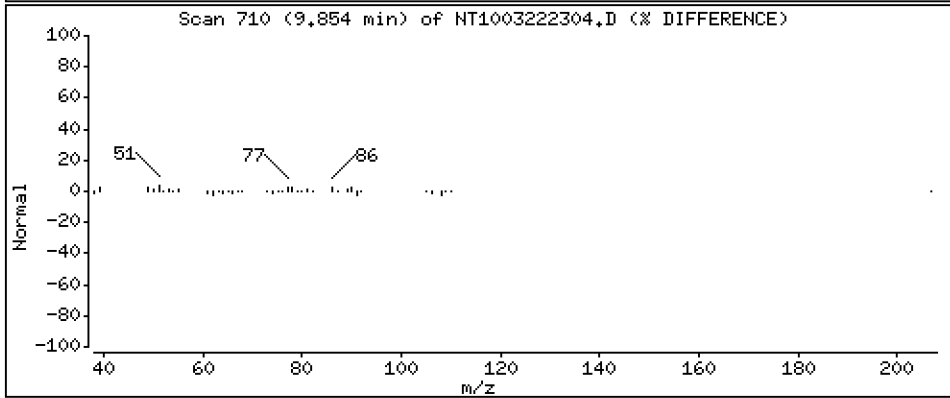
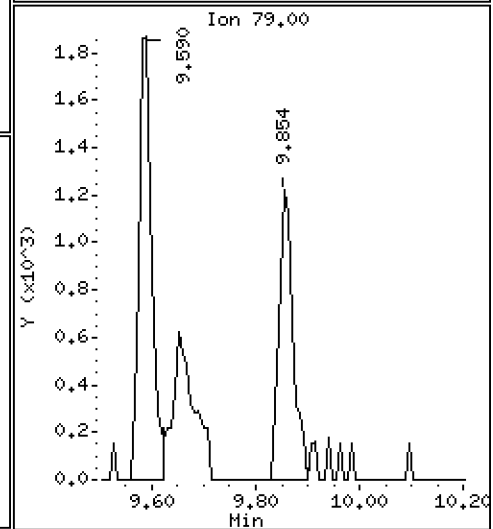
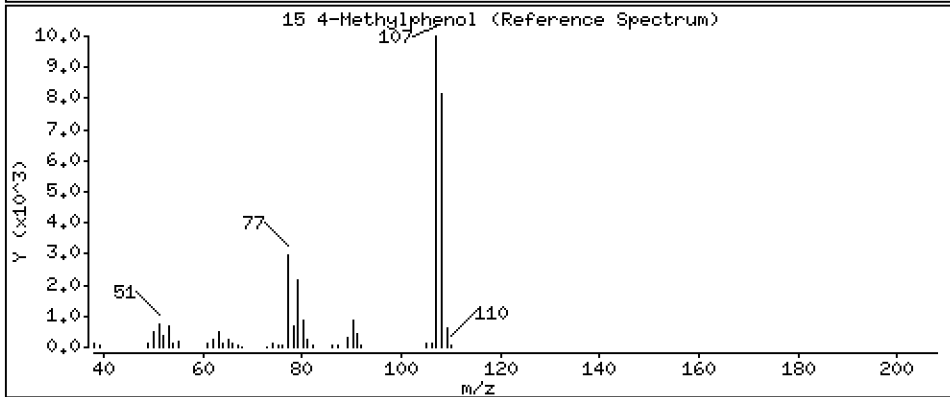
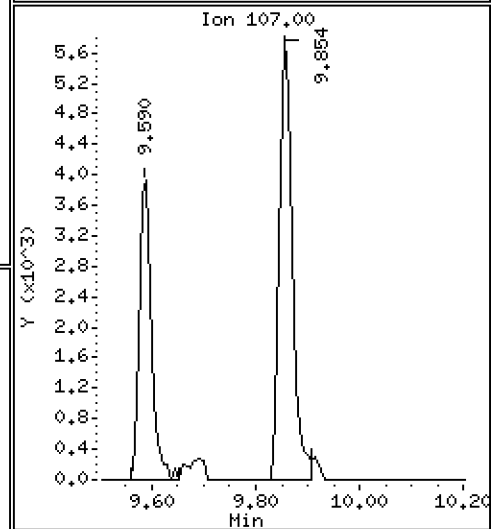
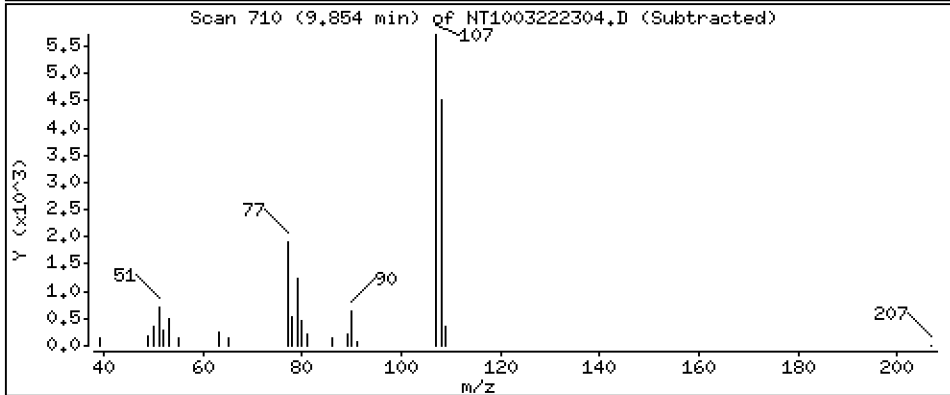
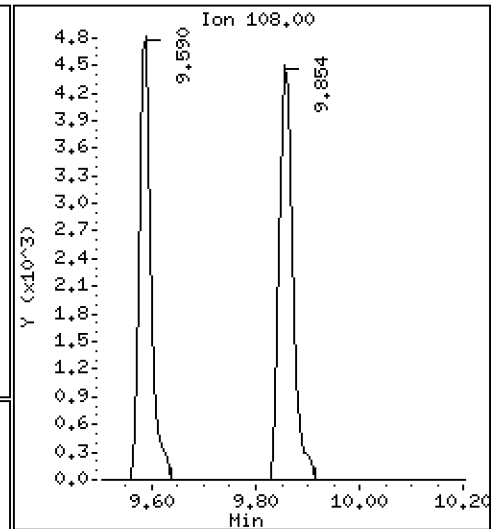
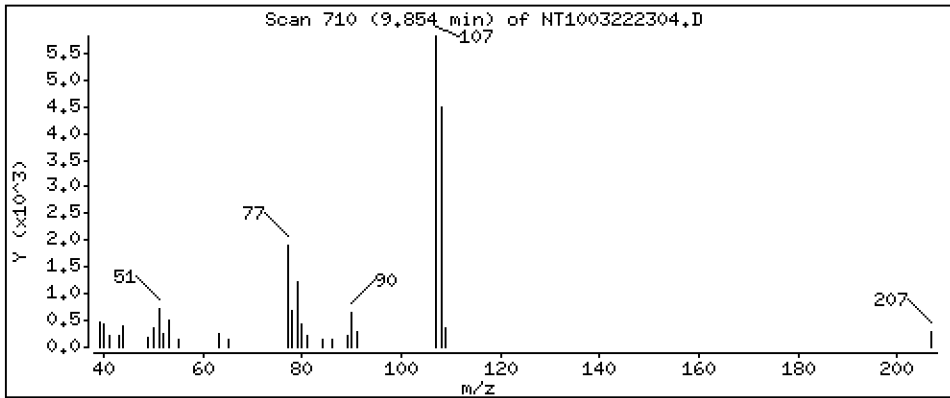
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1770 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

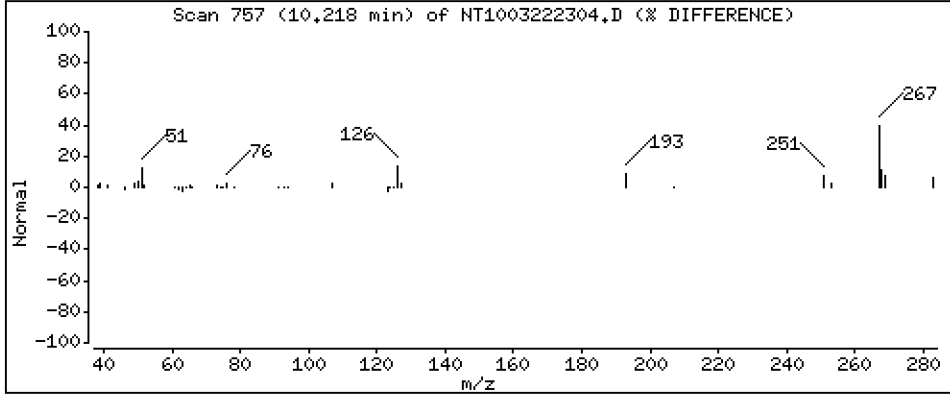
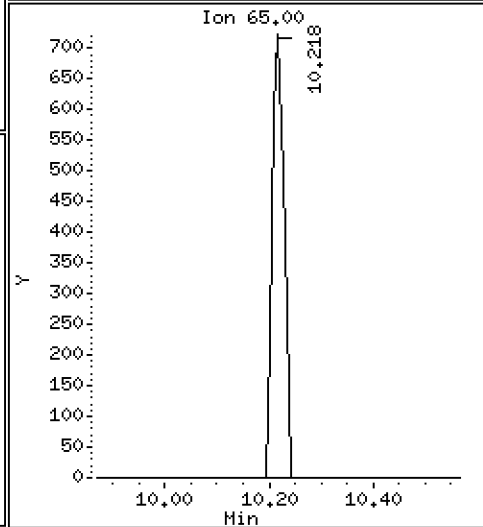
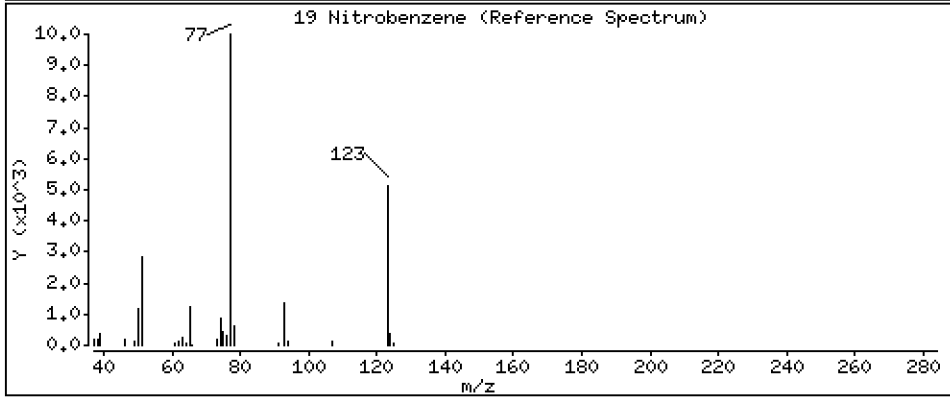
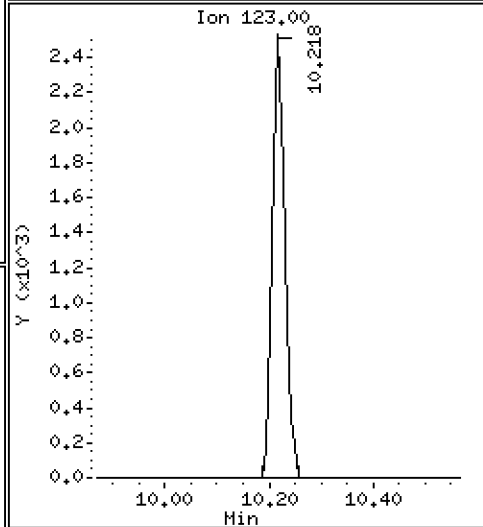
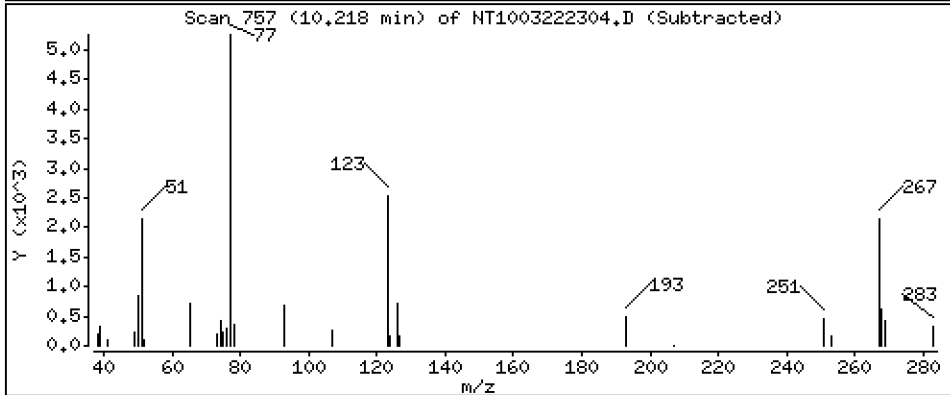
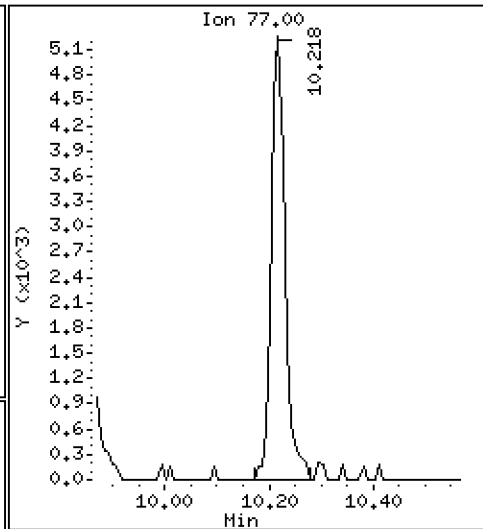
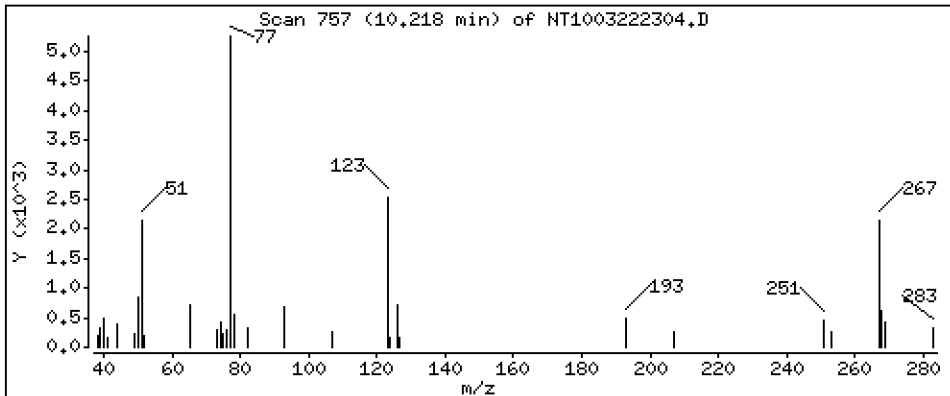
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,1853 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

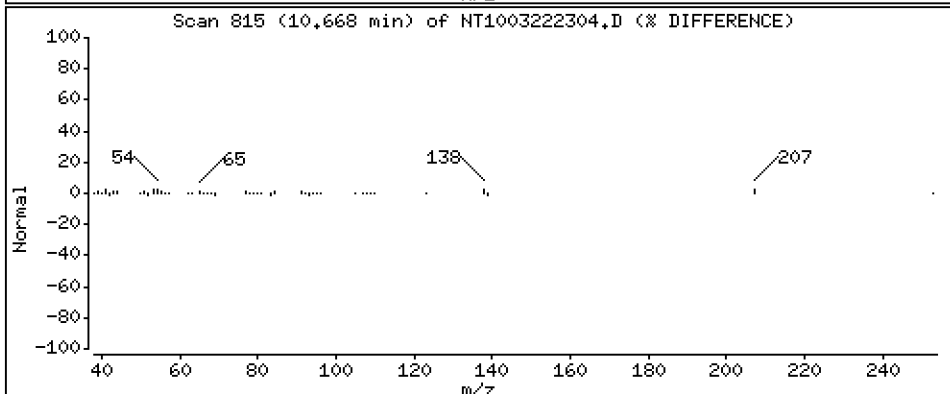
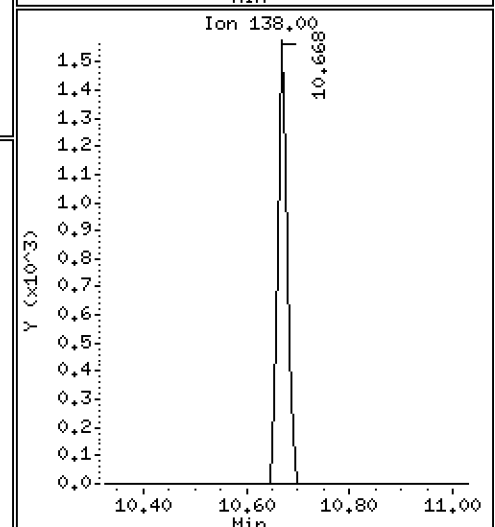
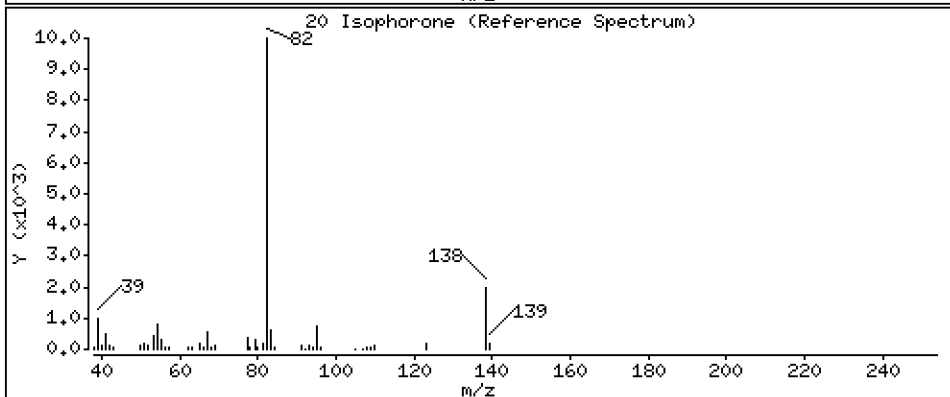
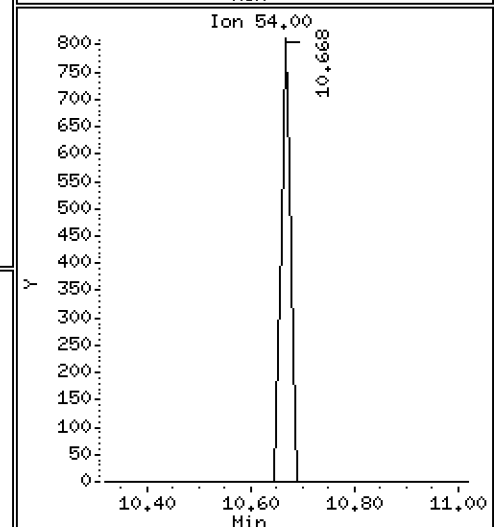
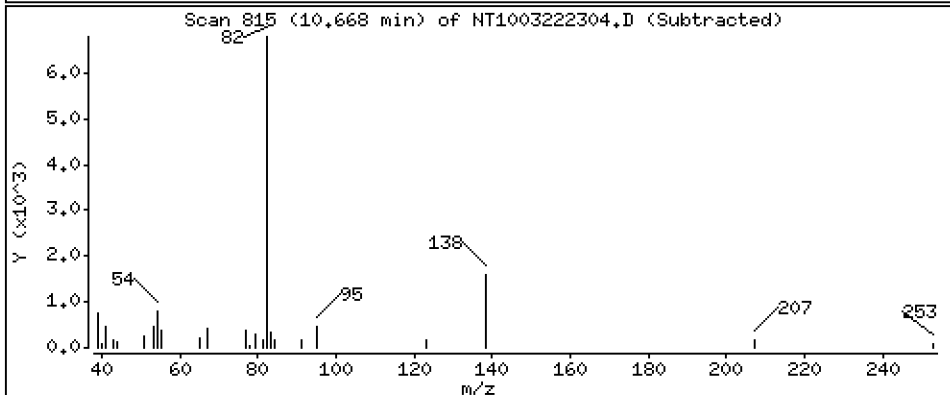
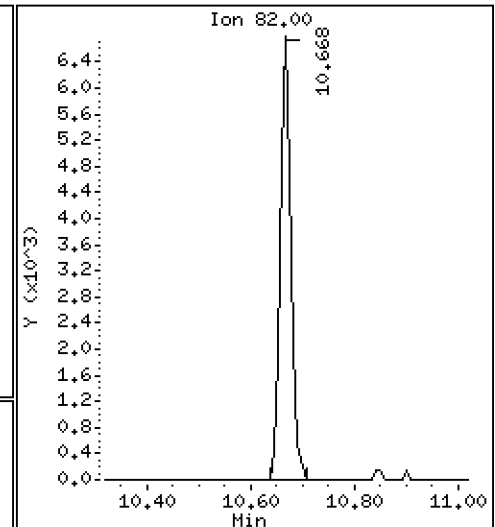
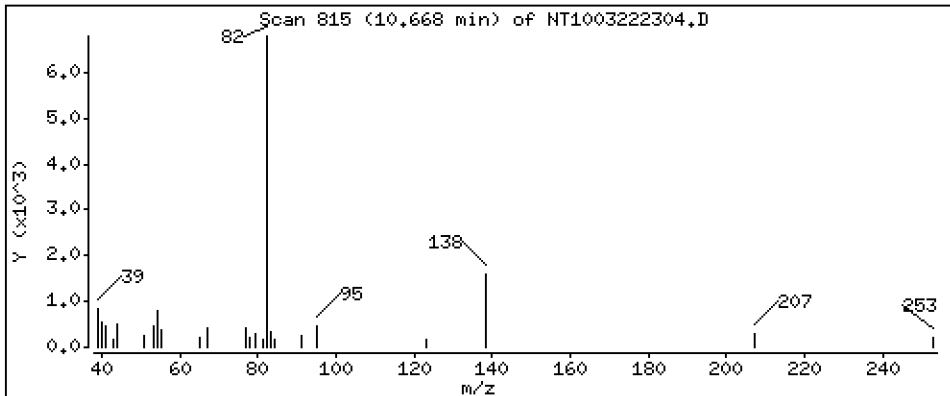
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 0,1565 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

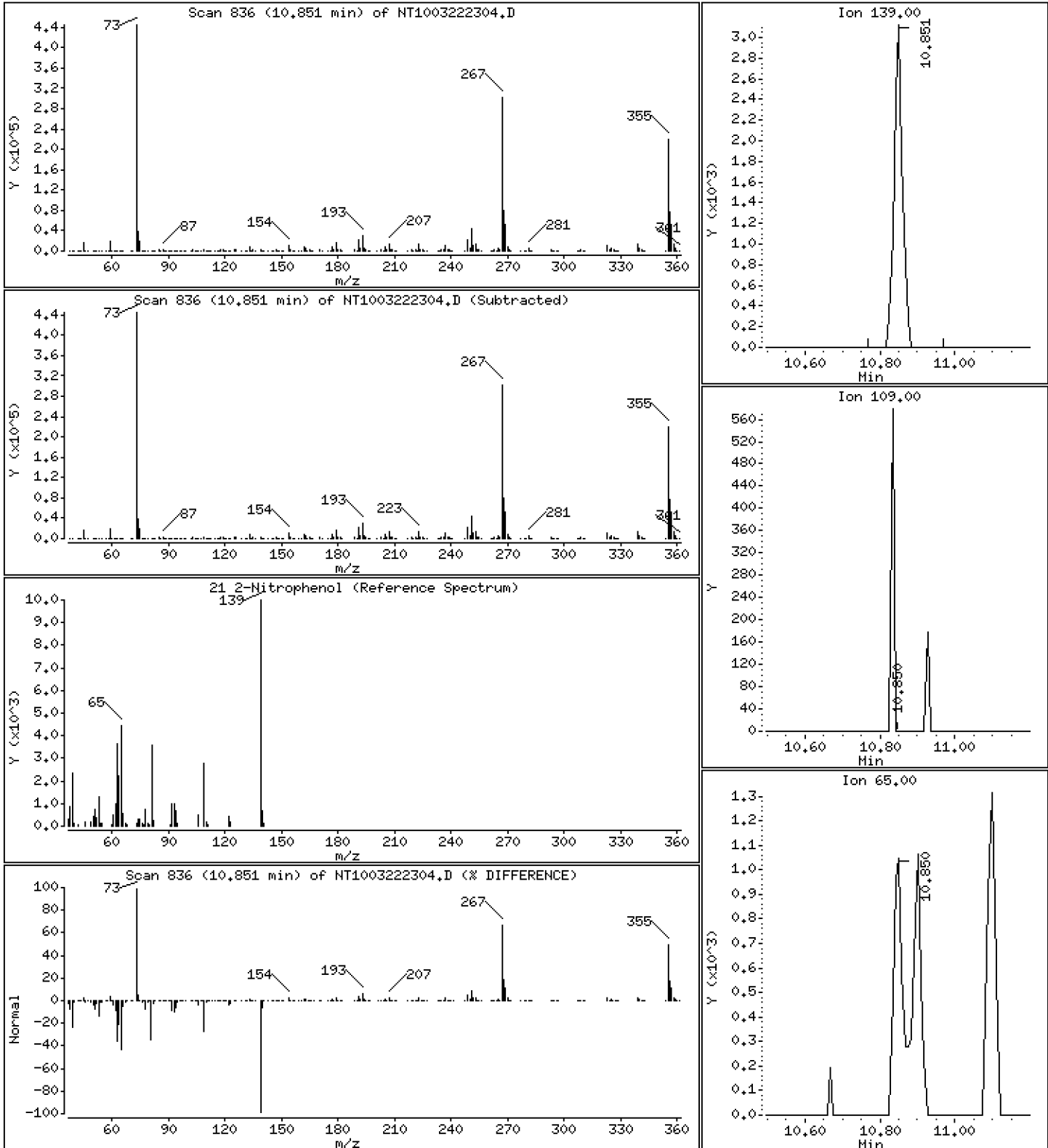
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,2201 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

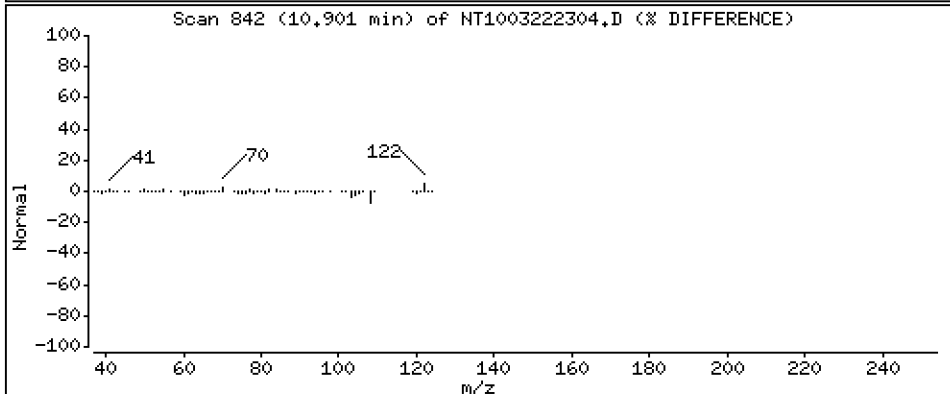
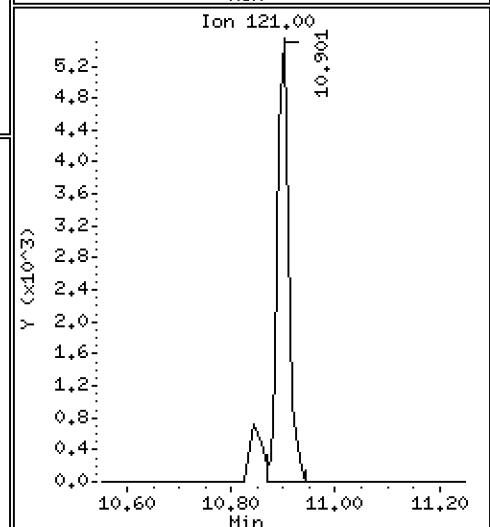
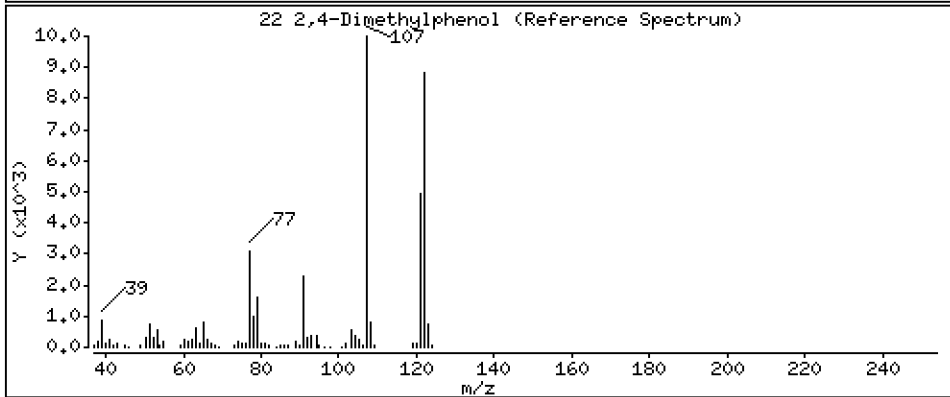
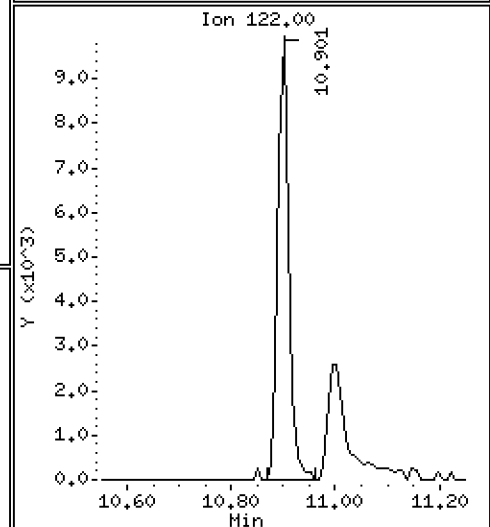
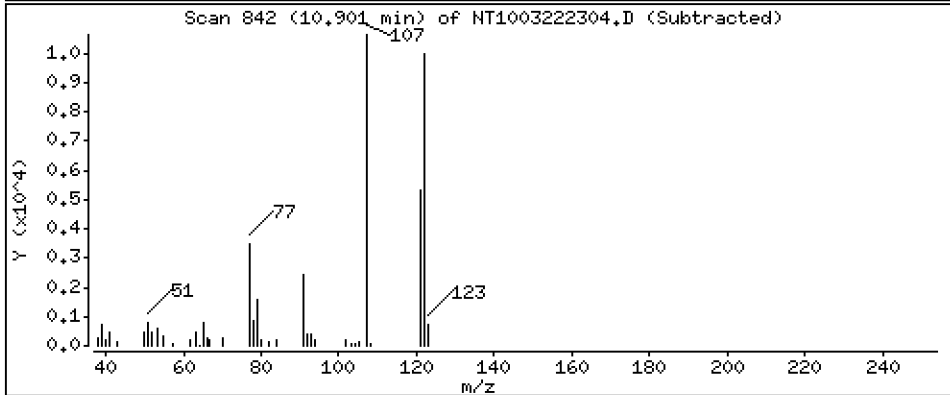
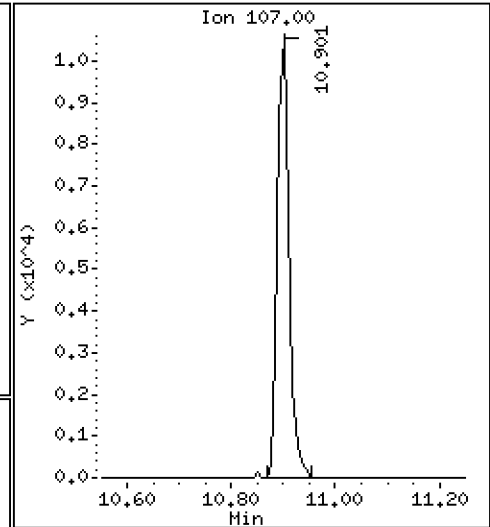
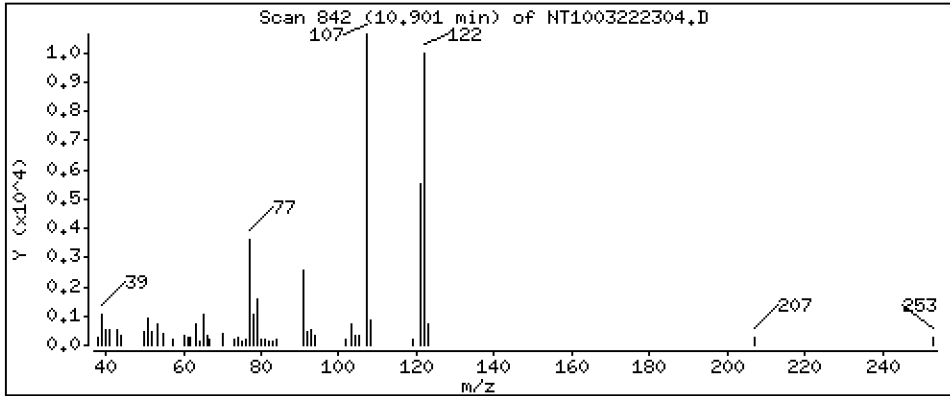
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,3595 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

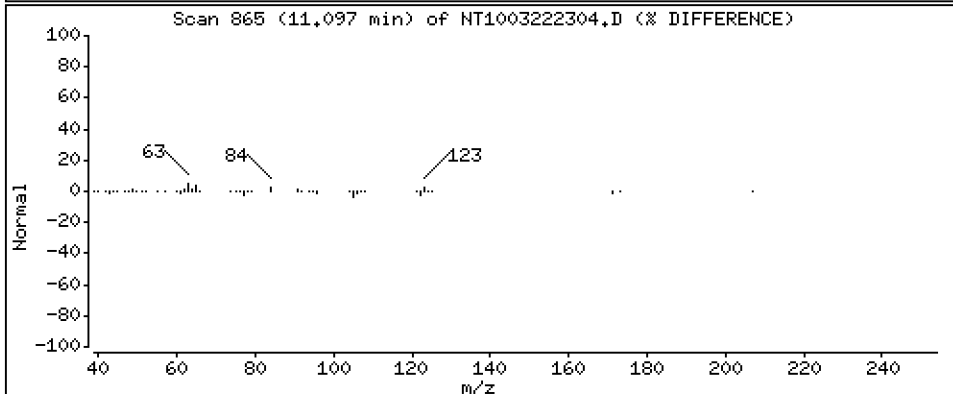
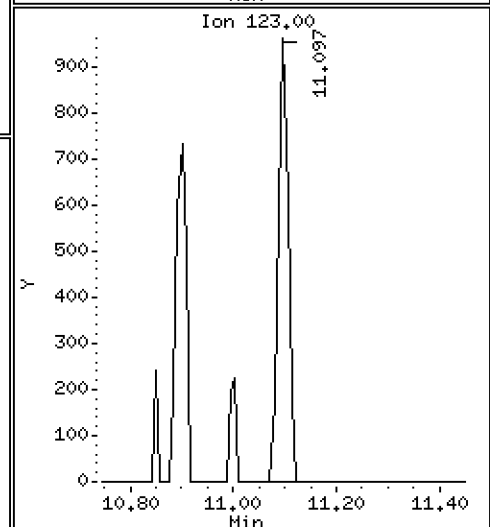
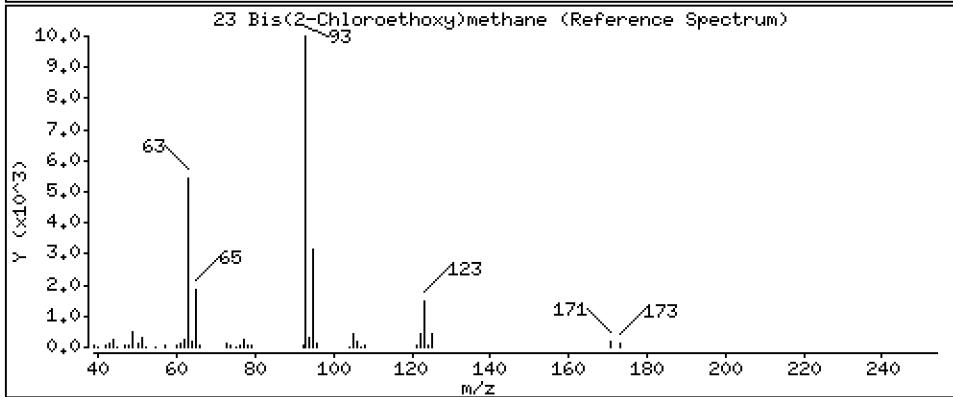
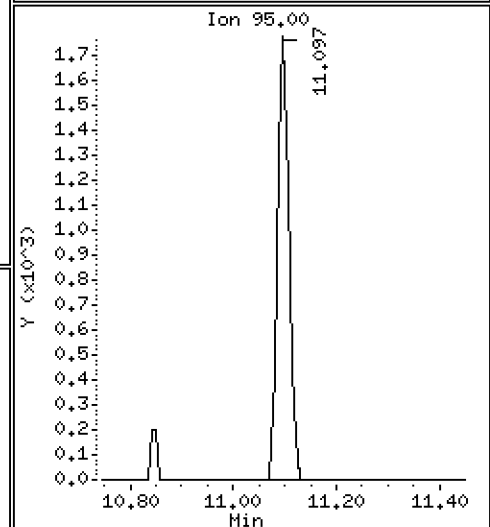
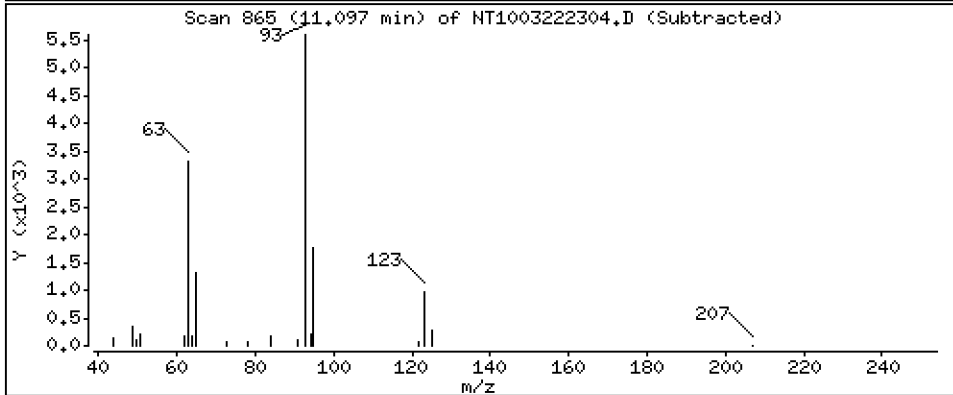
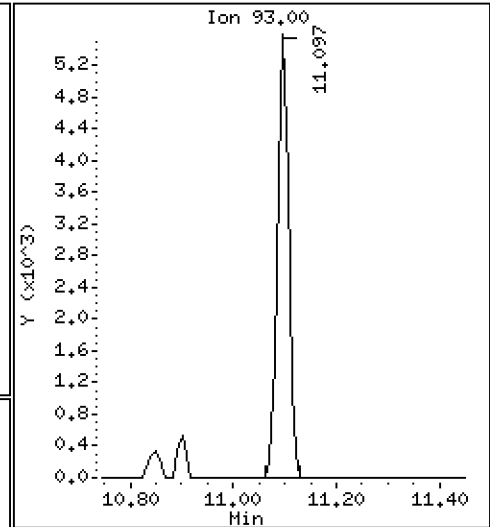
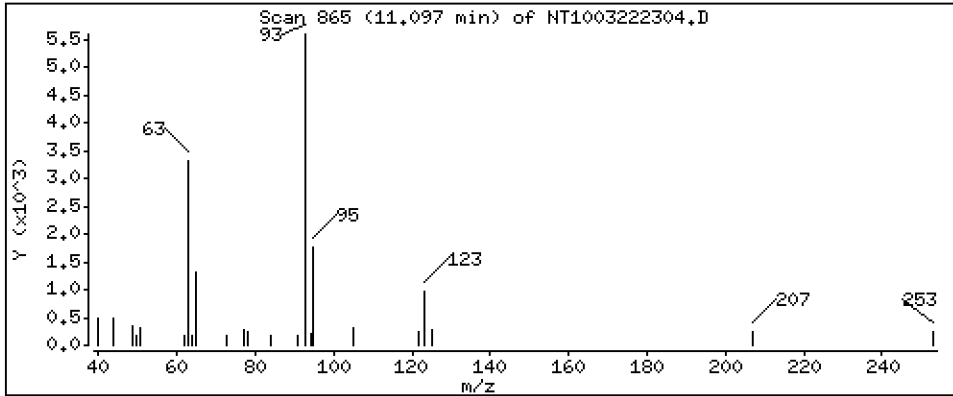
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,1943 ug/mL





Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

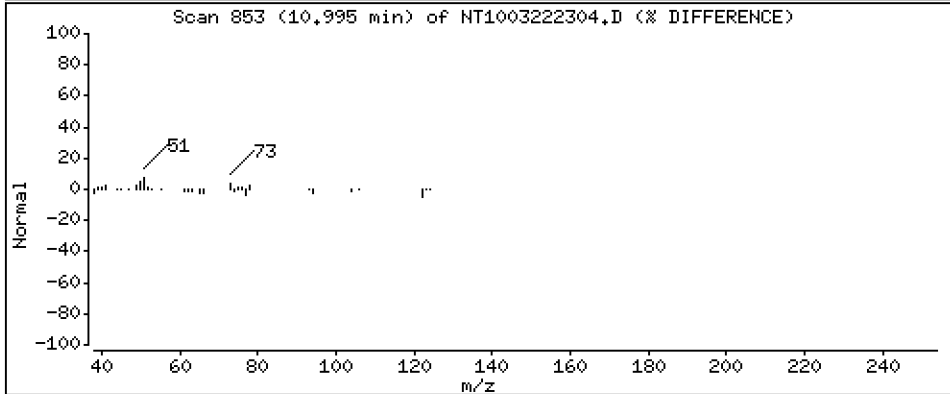
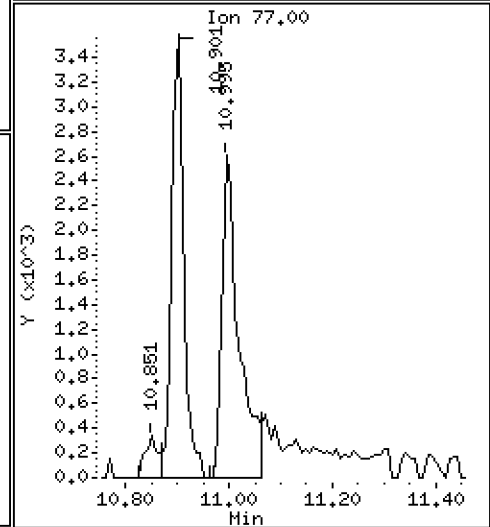
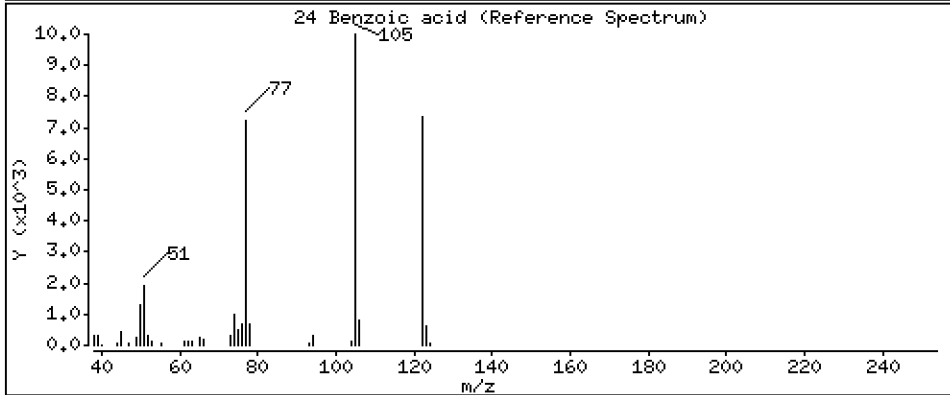
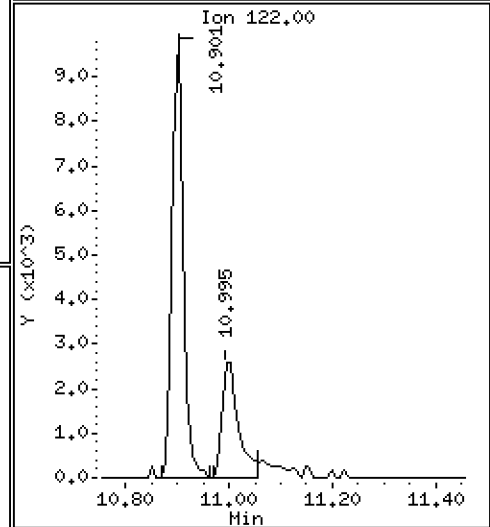
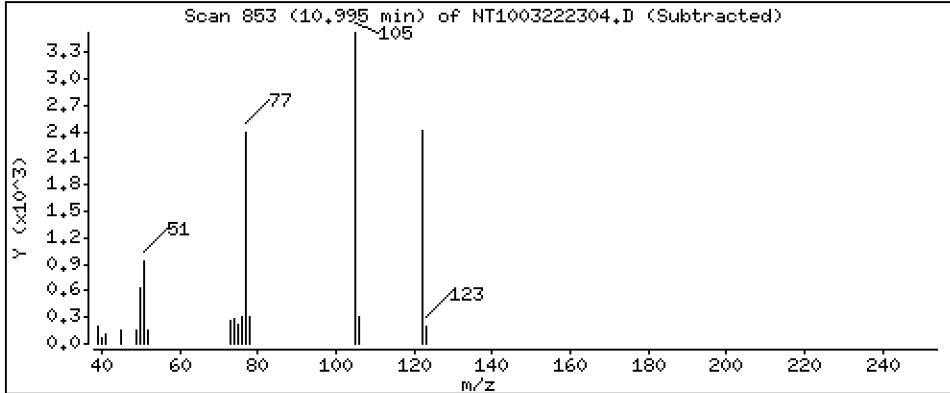
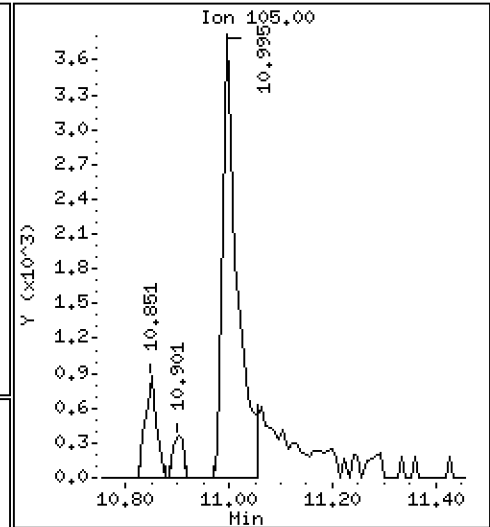
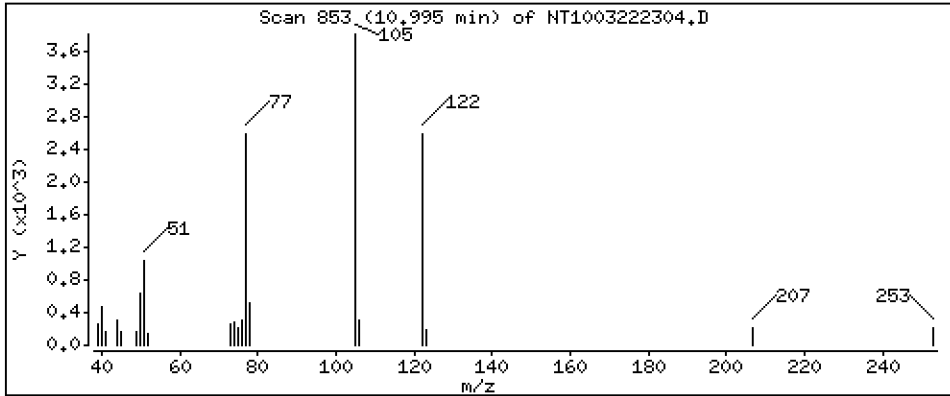
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,3047 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

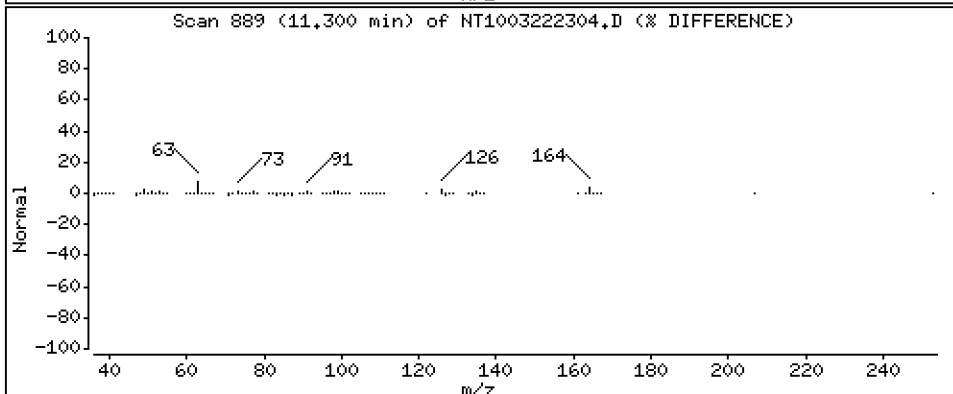
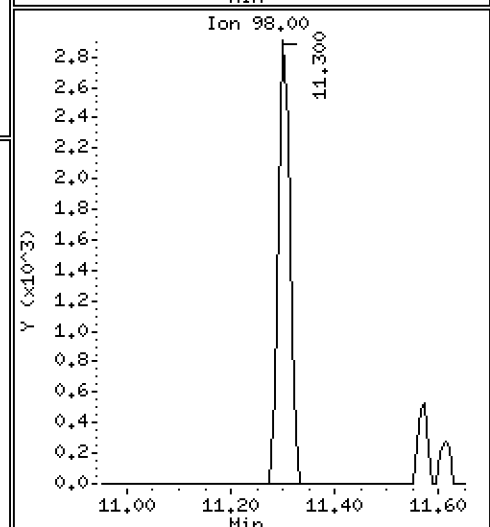
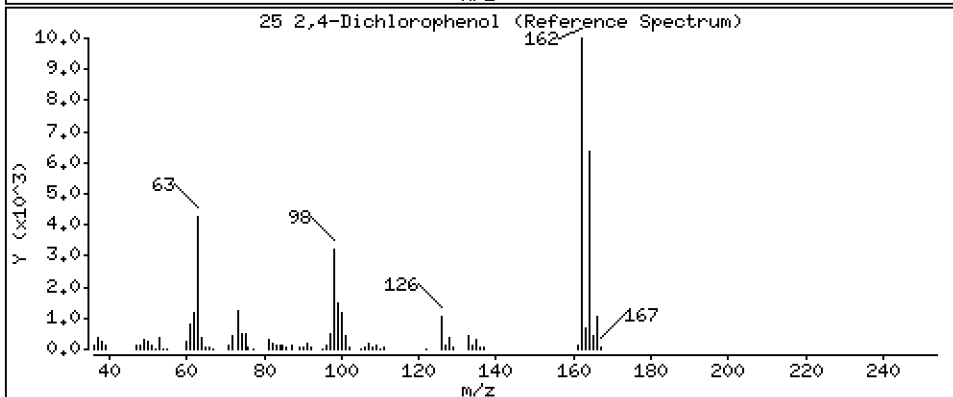
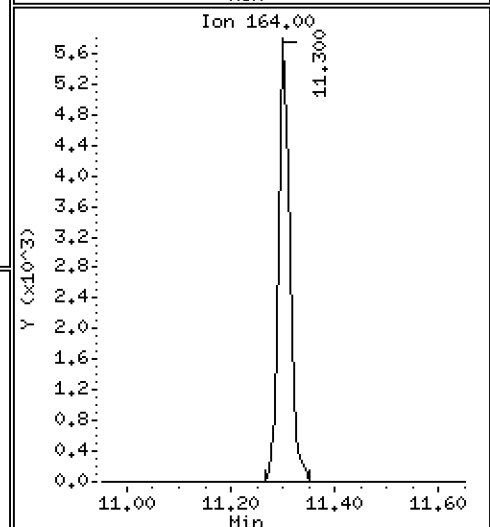
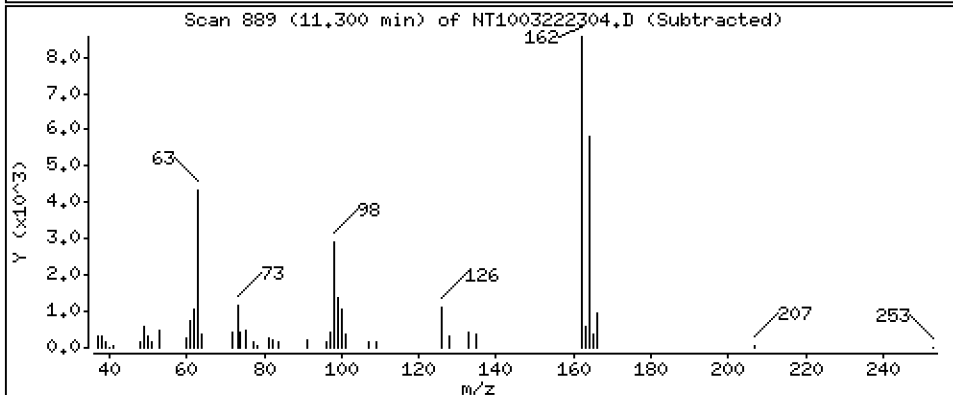
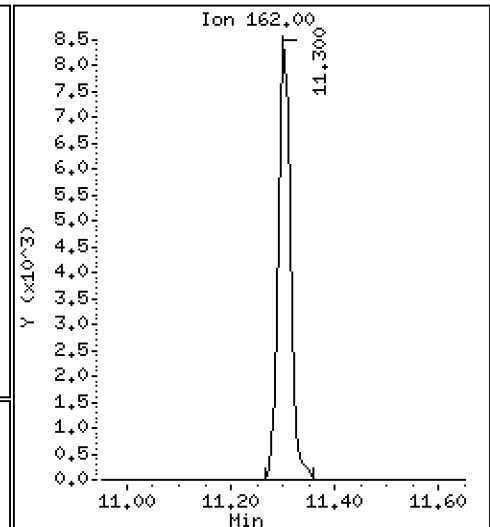
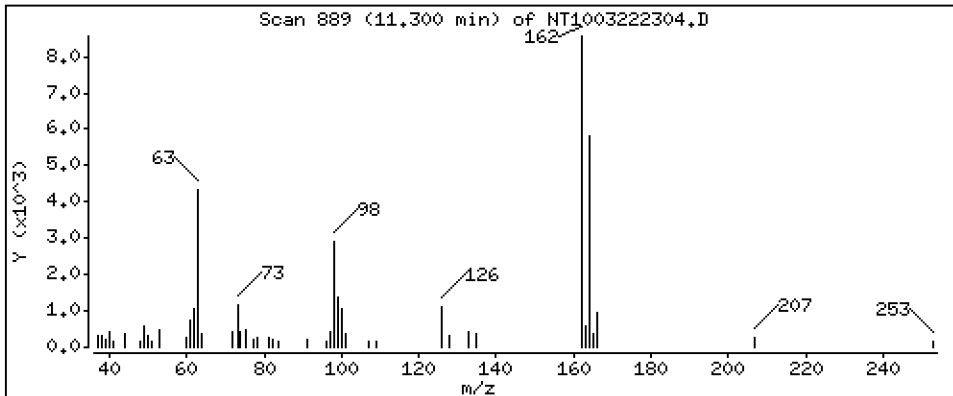
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,3777 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

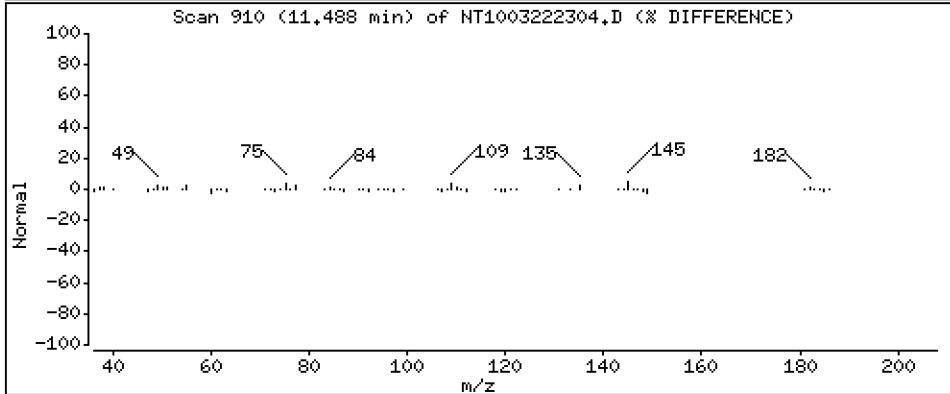
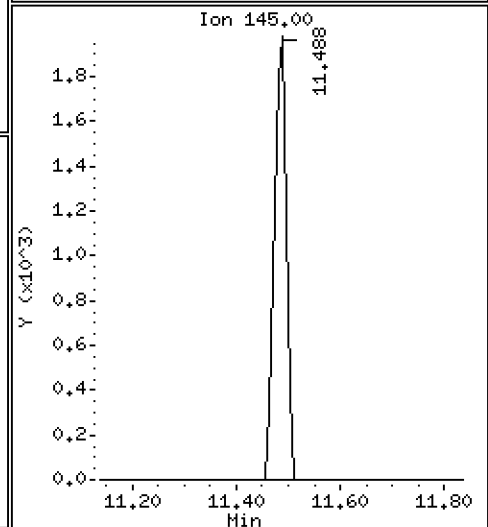
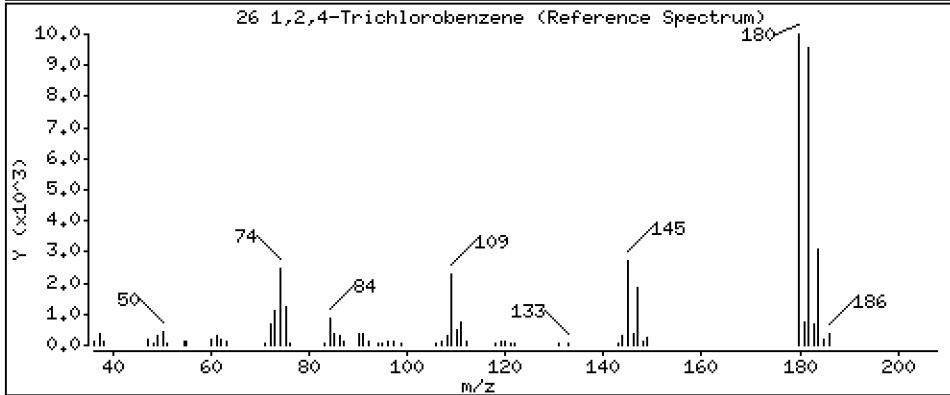
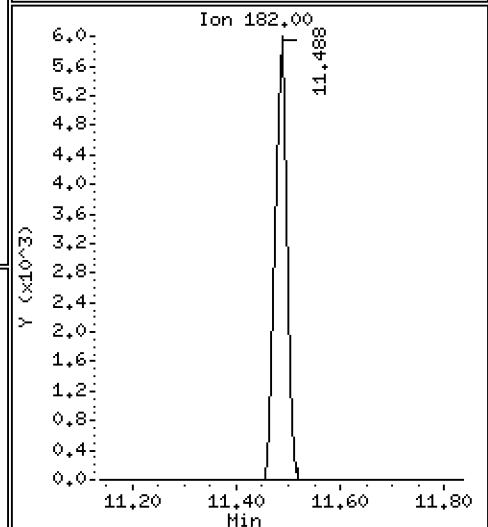
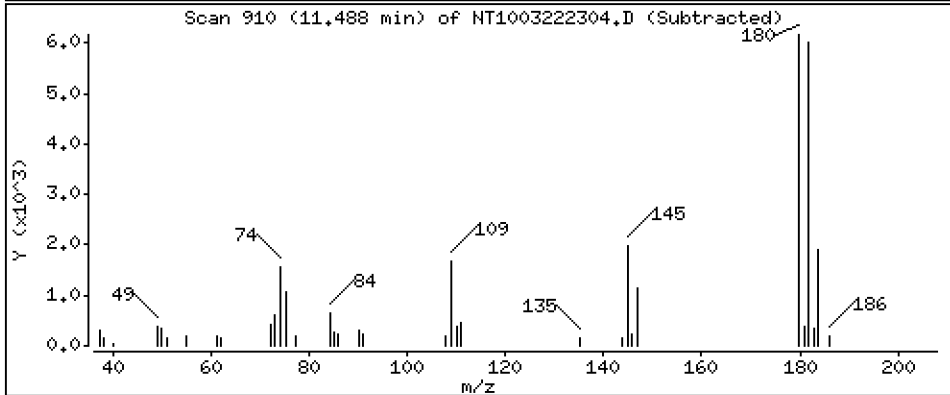
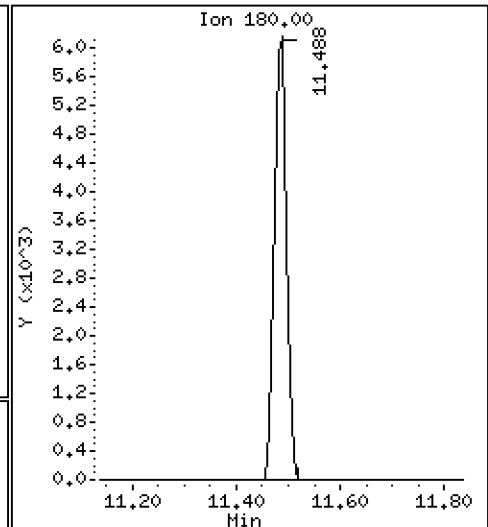
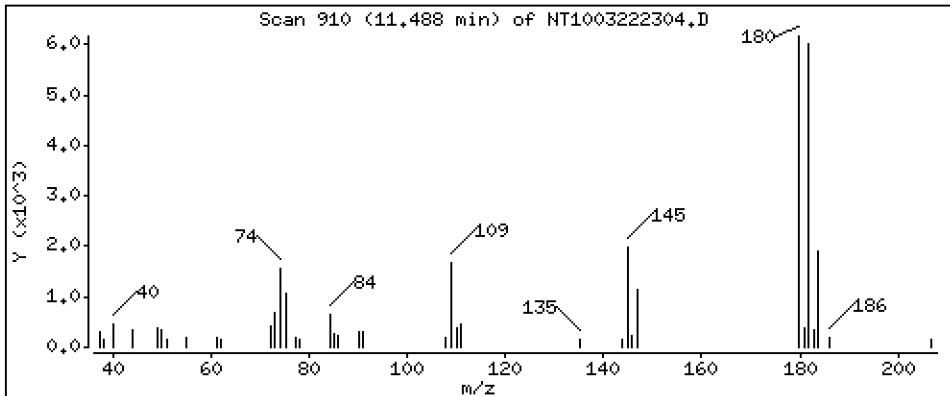
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,2206 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

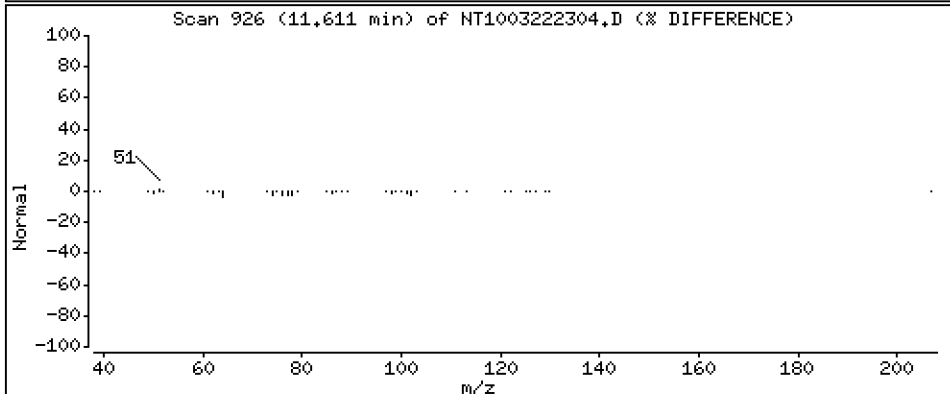
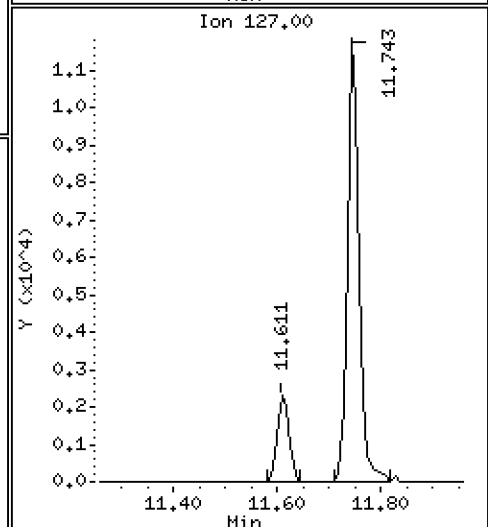
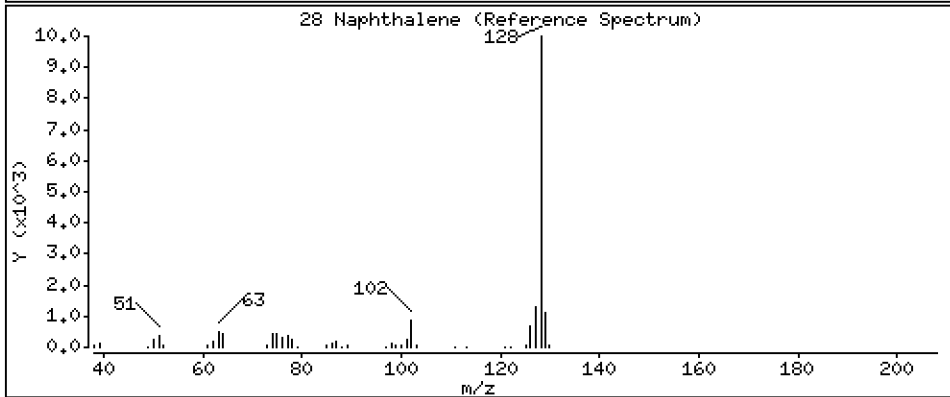
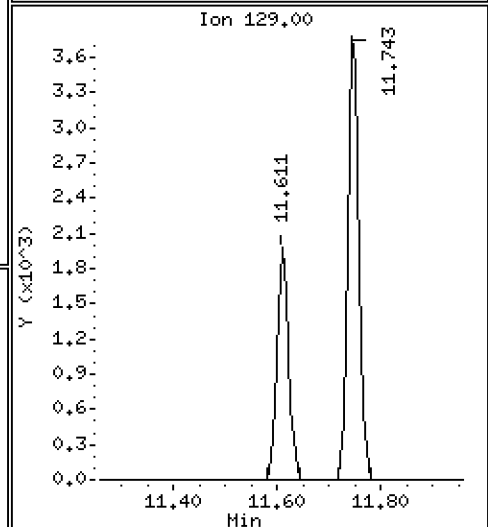
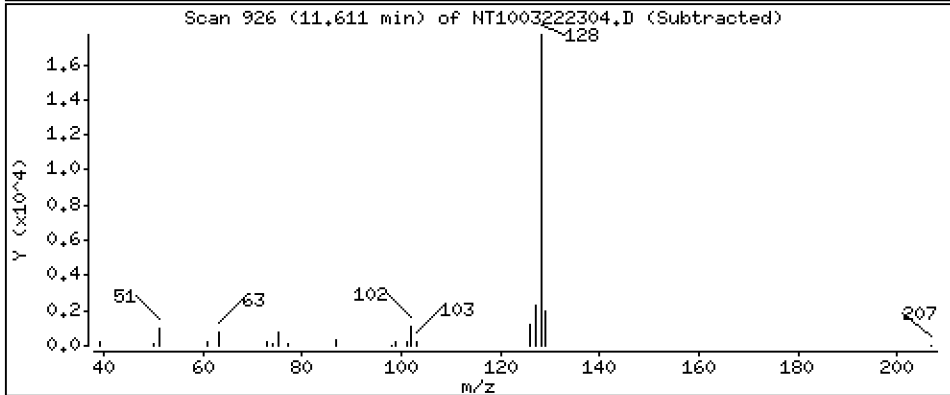
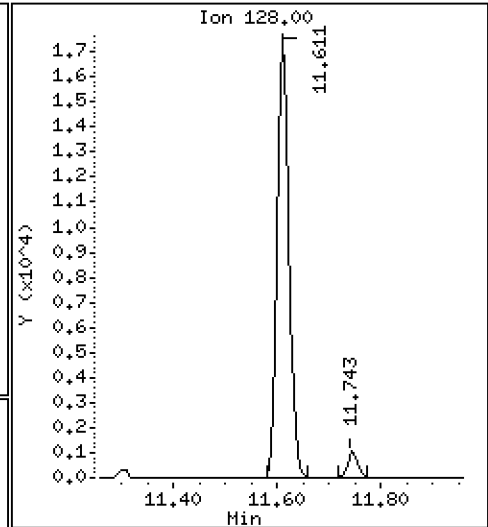
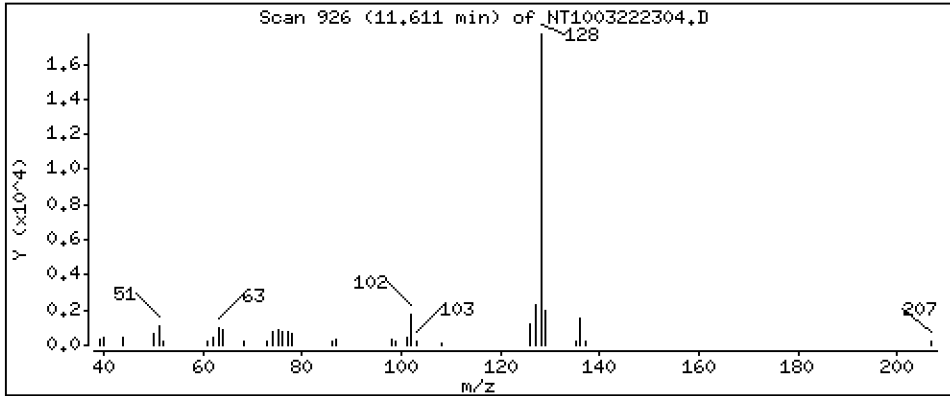
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2102 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

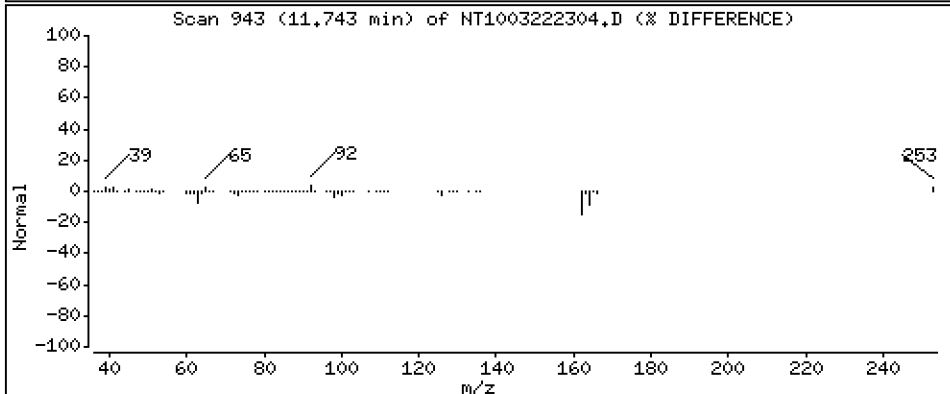
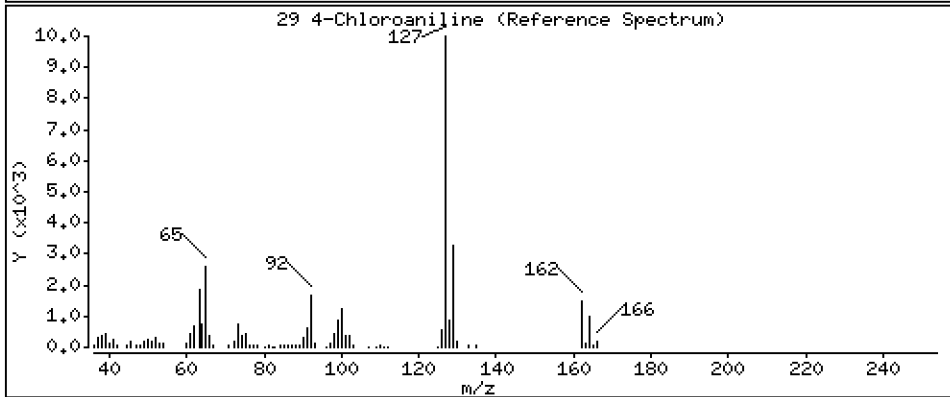
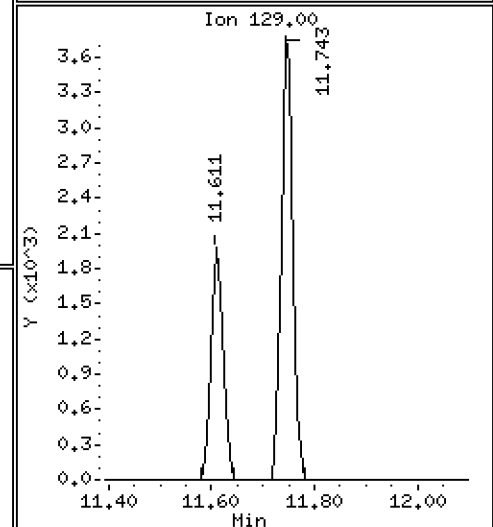
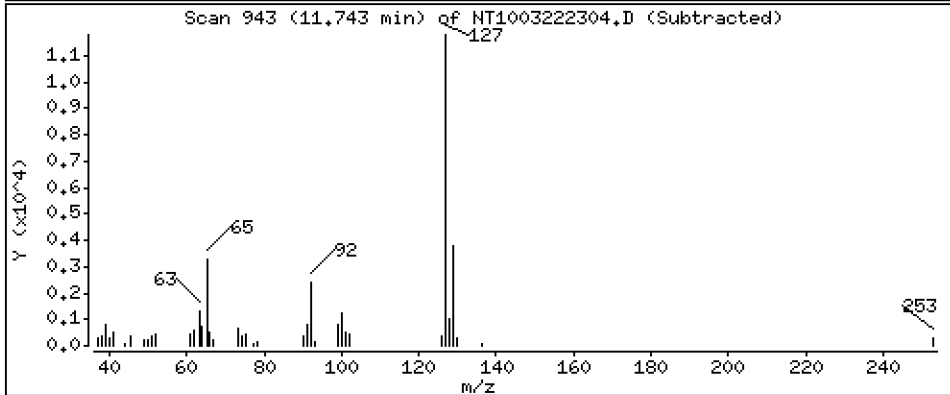
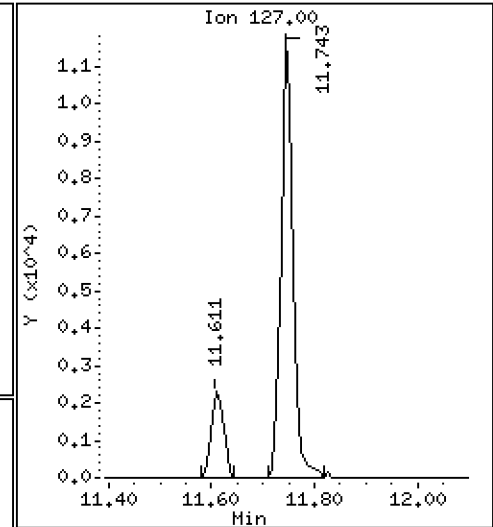
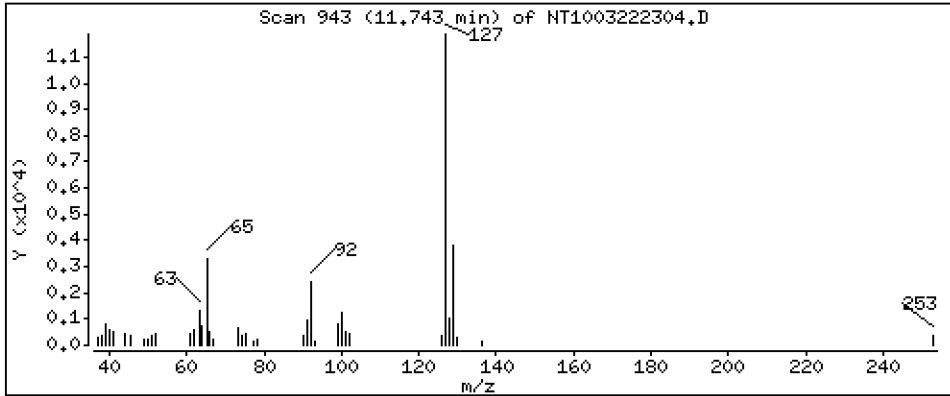
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3570 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

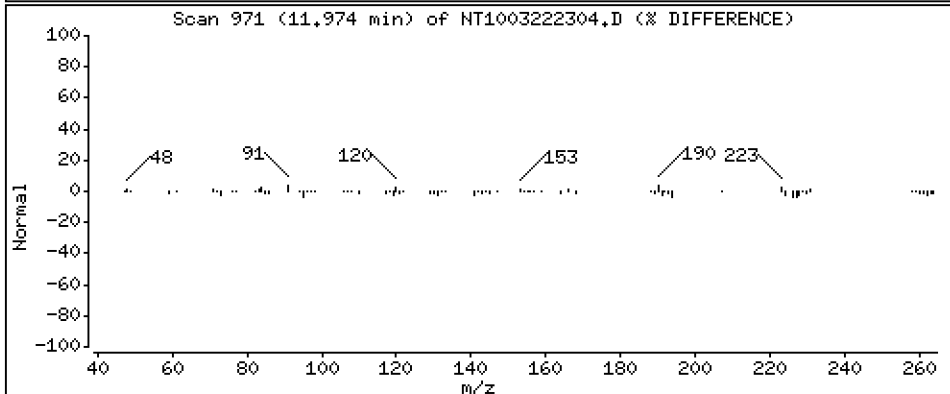
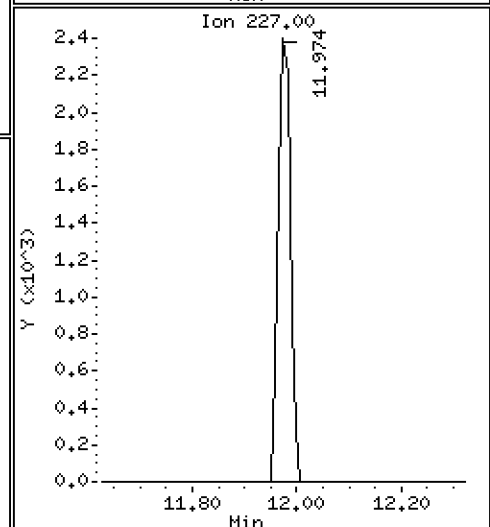
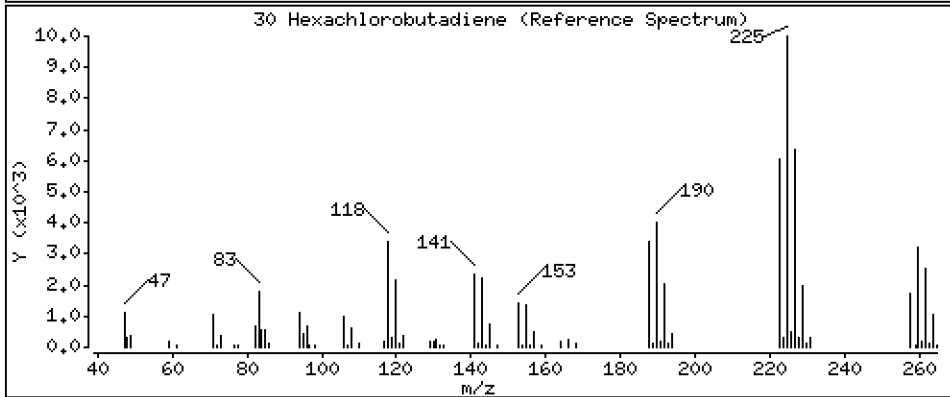
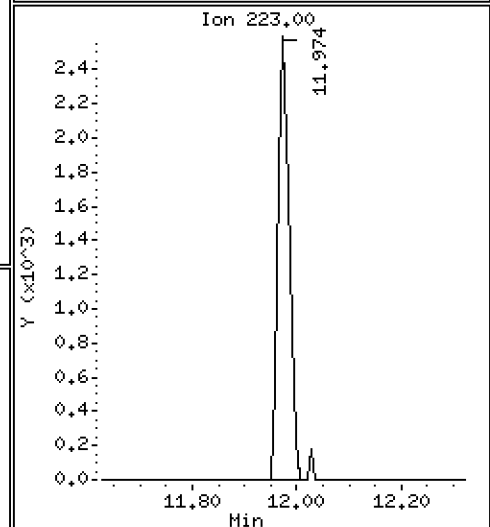
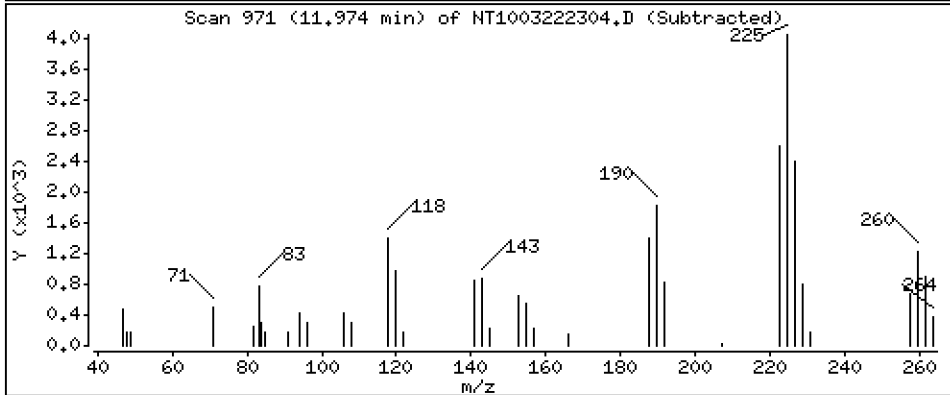
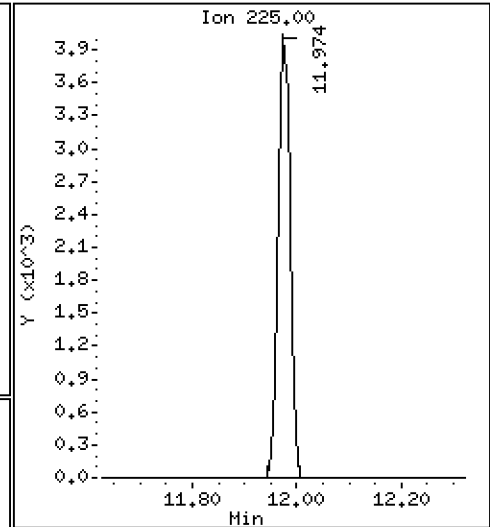
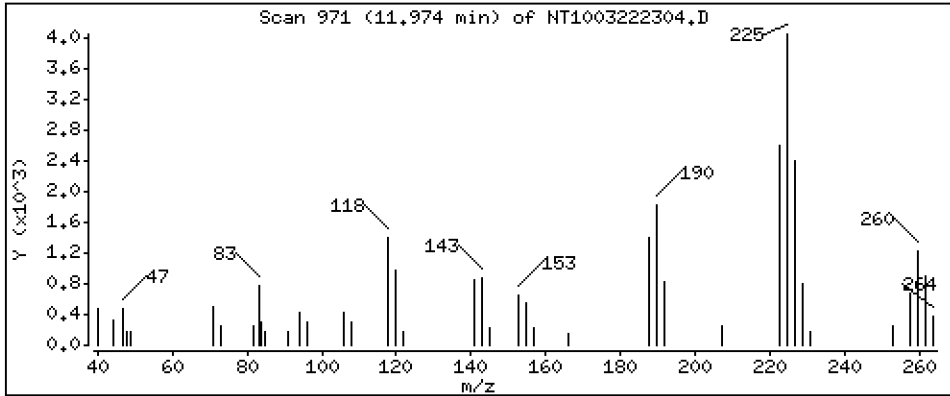
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,2388 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

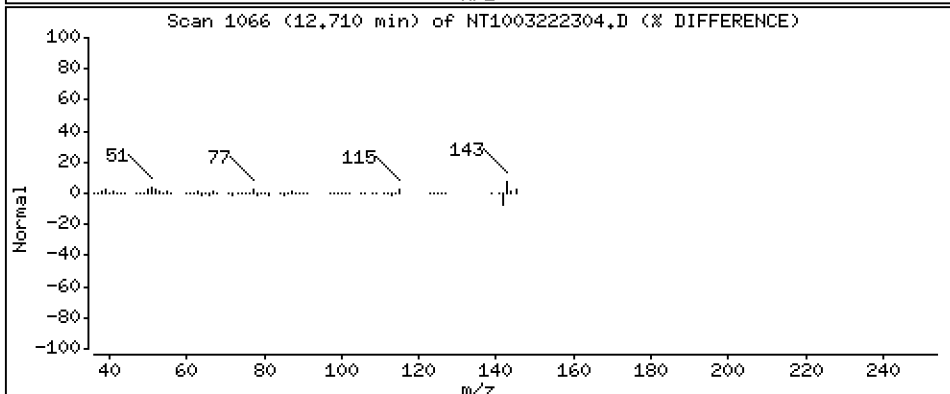
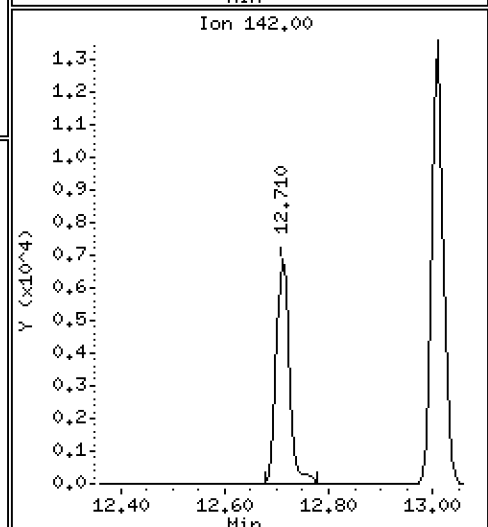
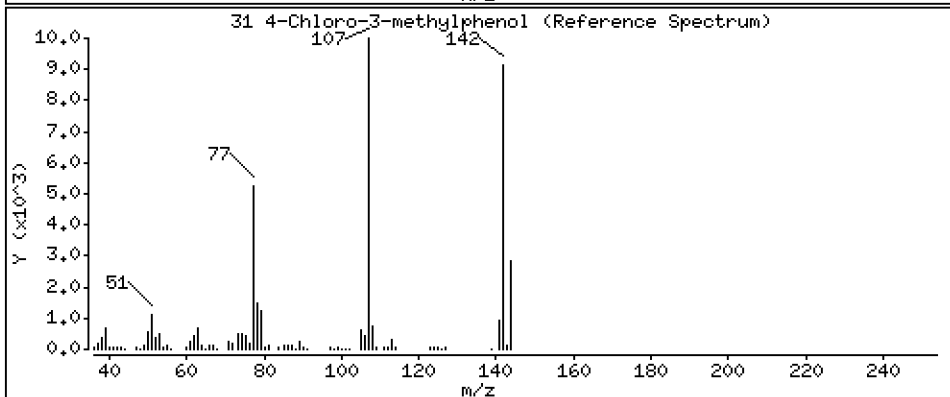
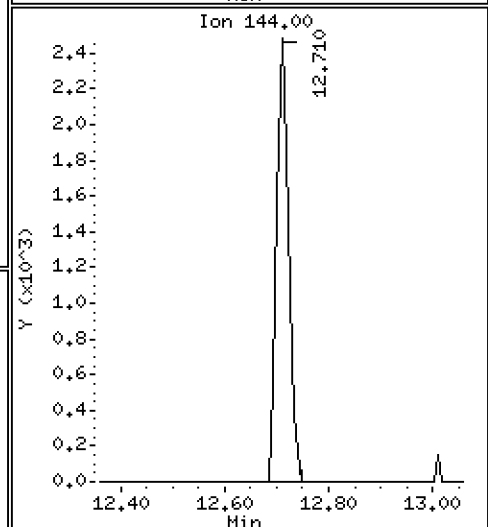
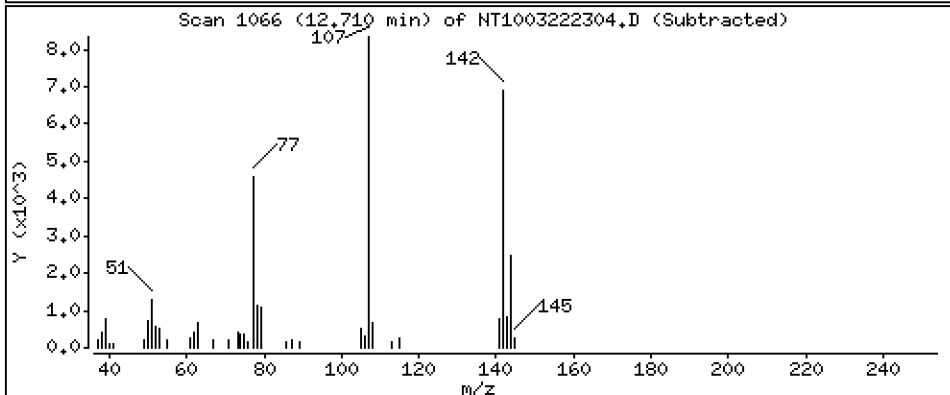
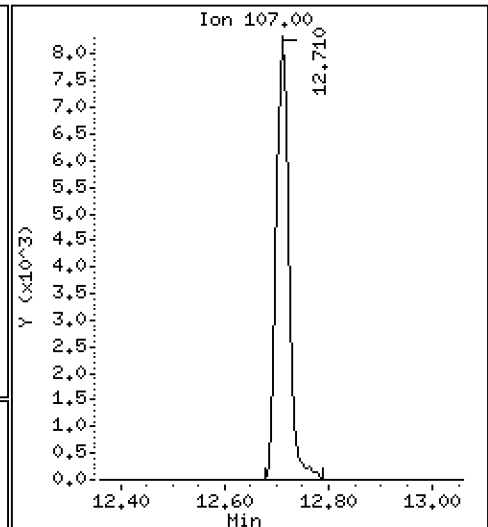
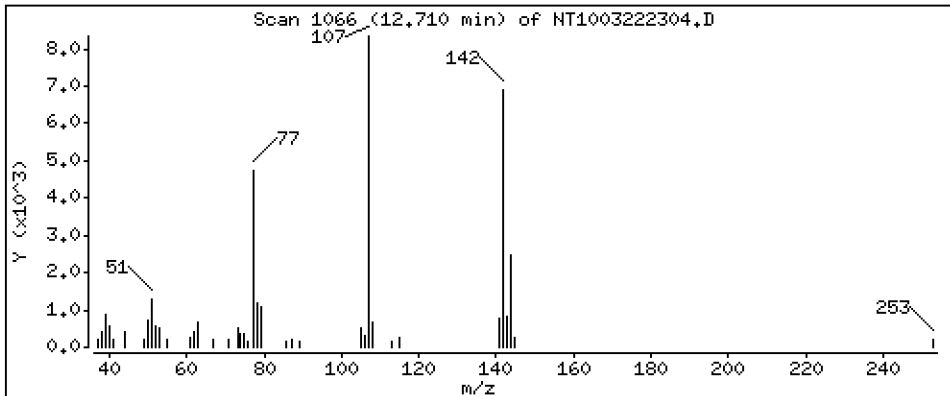
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,3375 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

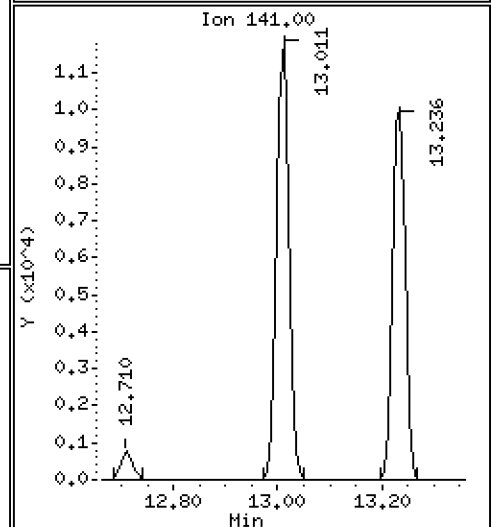
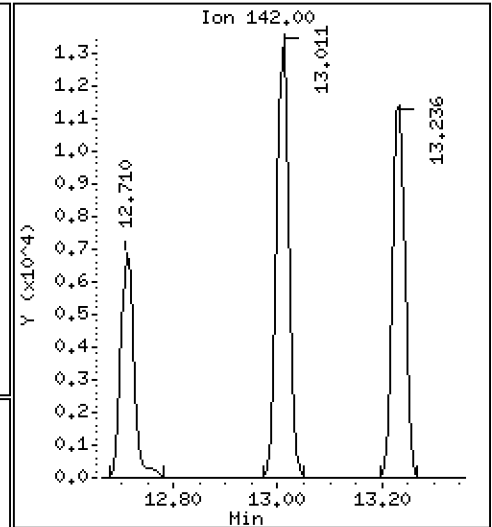
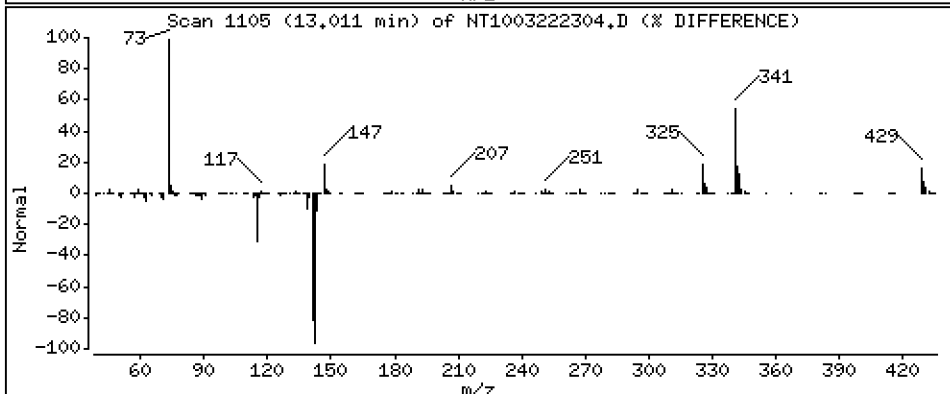
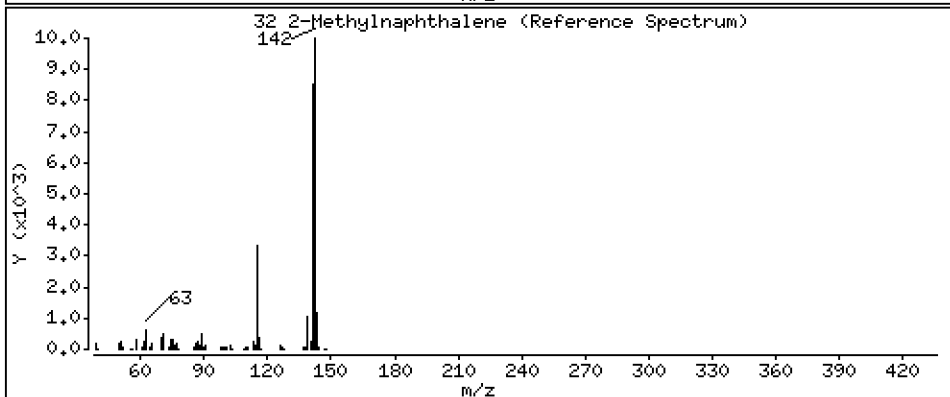
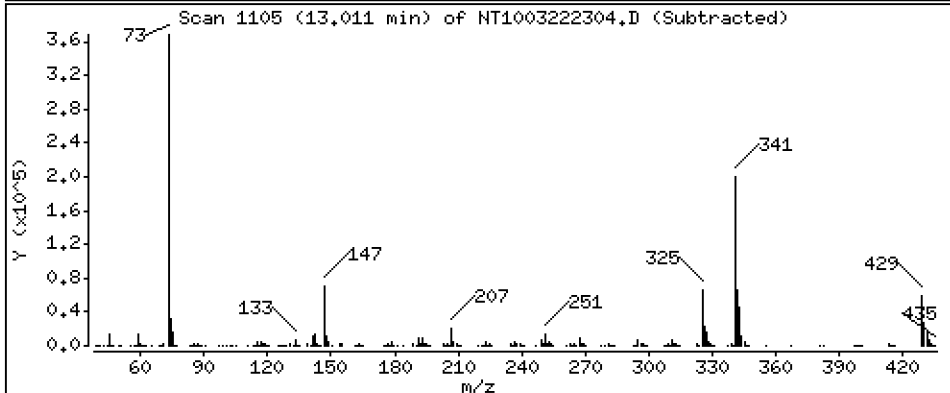
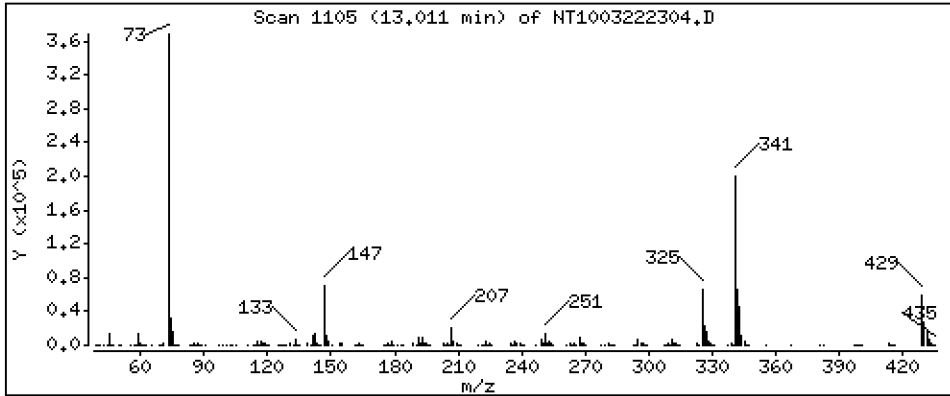
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,2136 ug/mL





Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

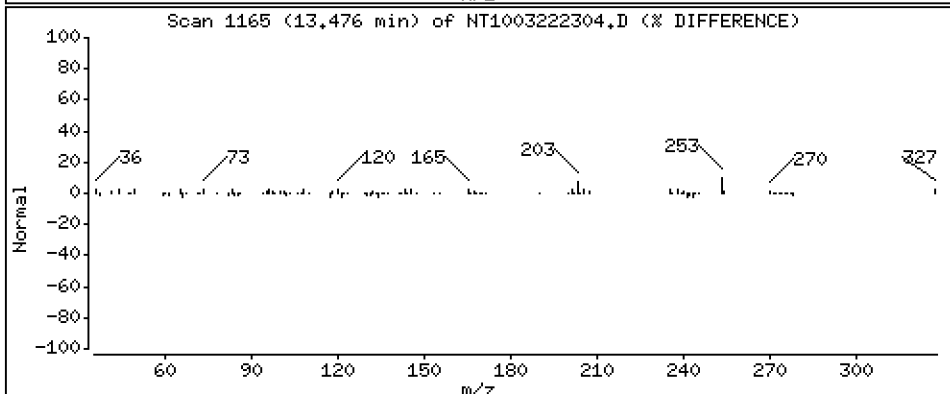
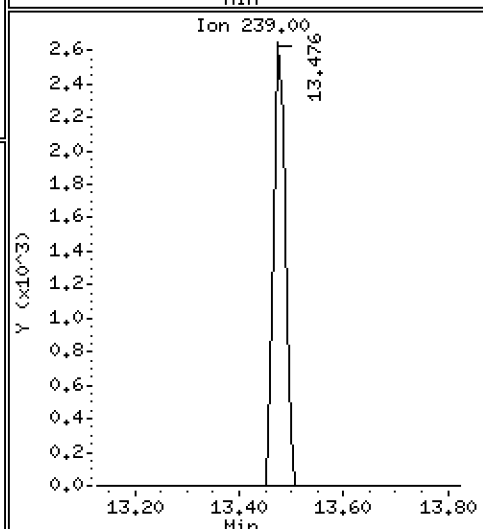
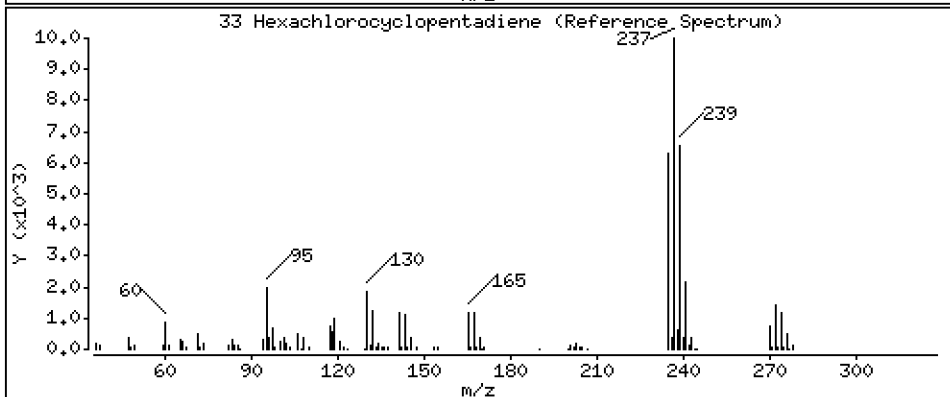
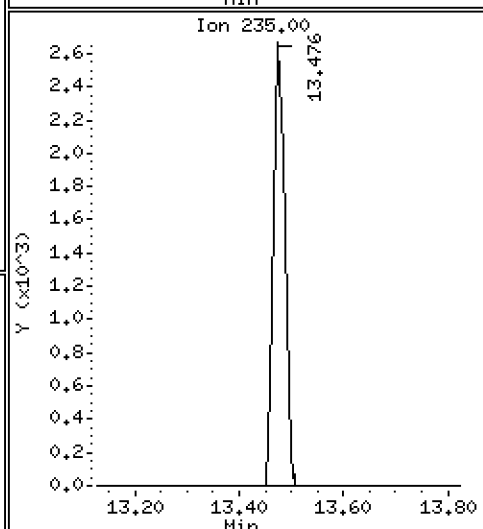
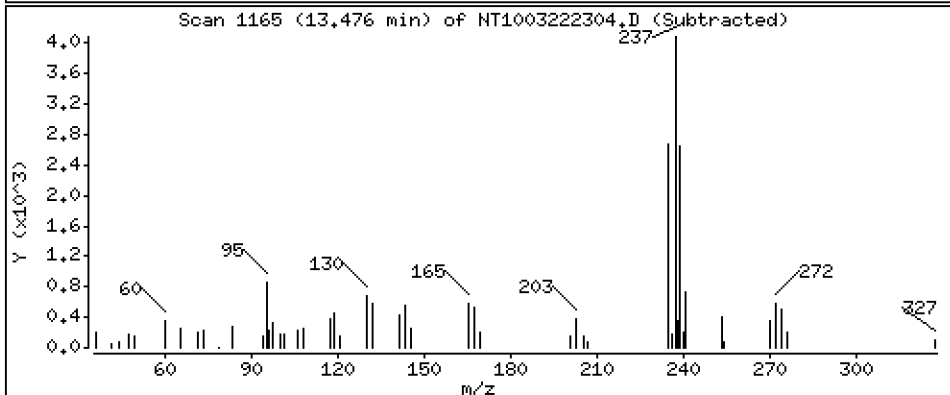
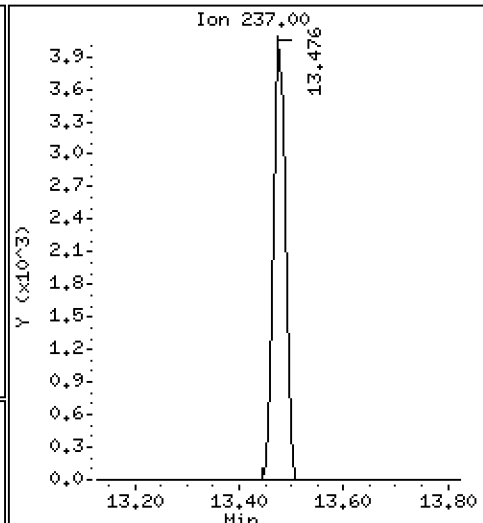
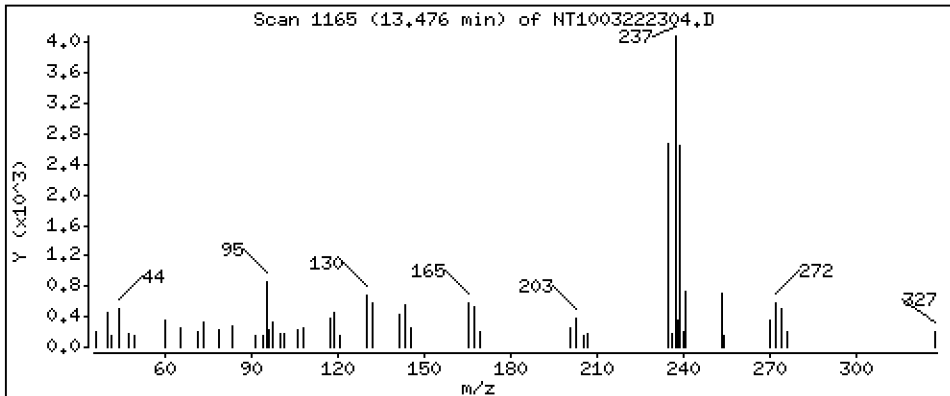
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,2376 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

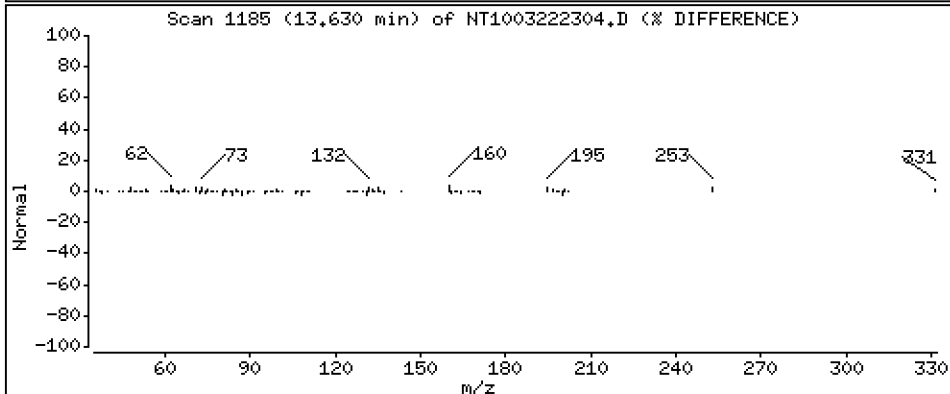
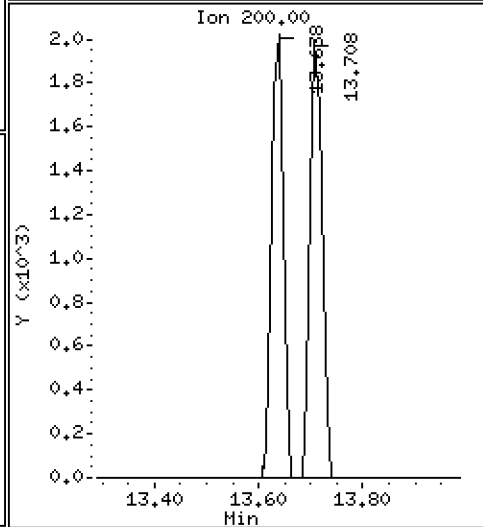
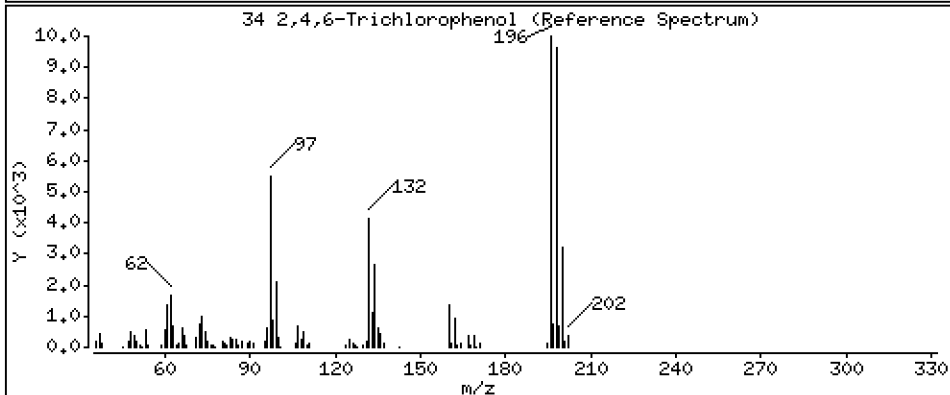
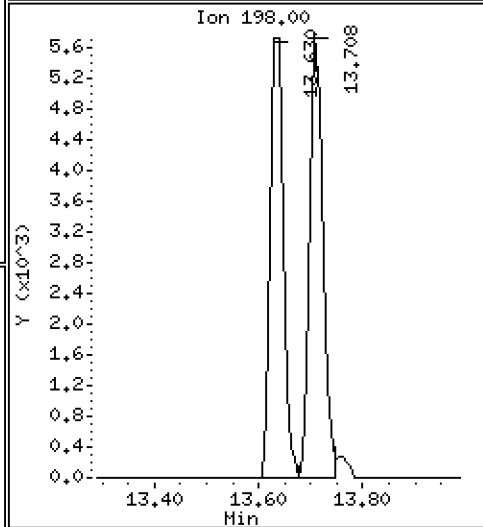
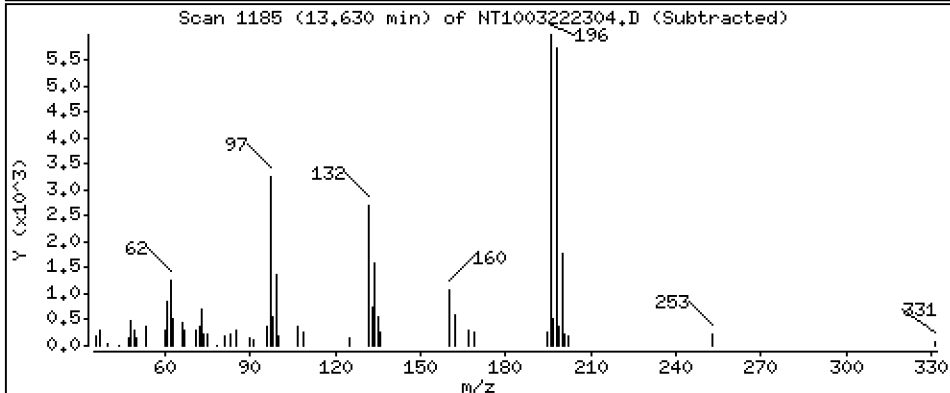
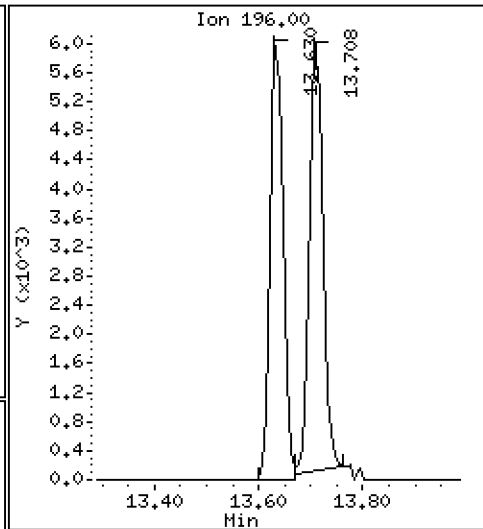
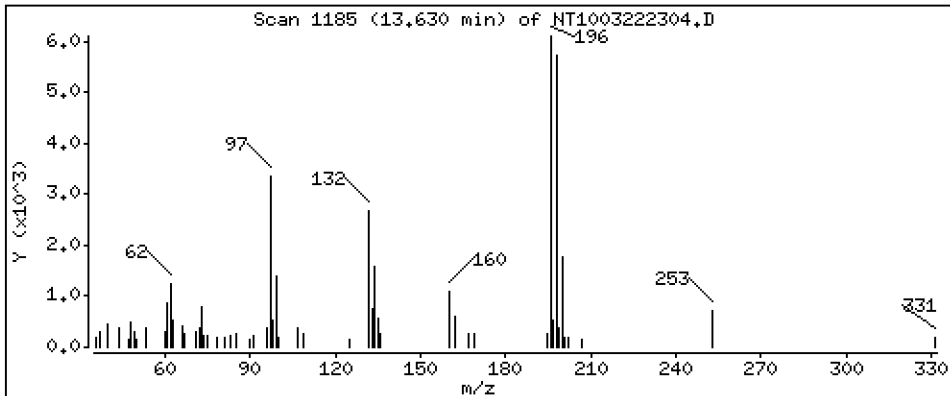
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,3651 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

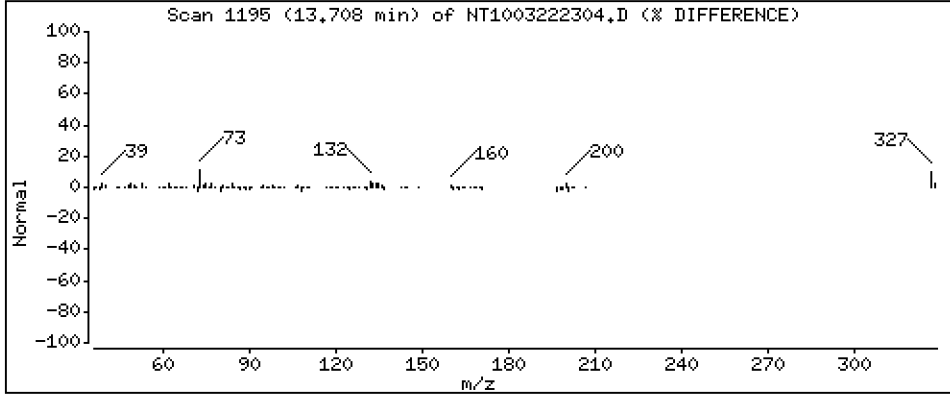
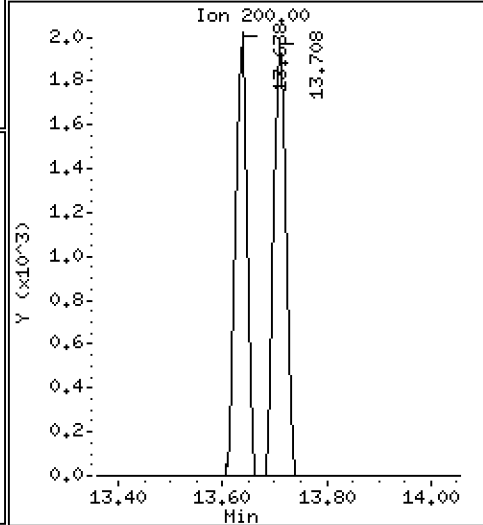
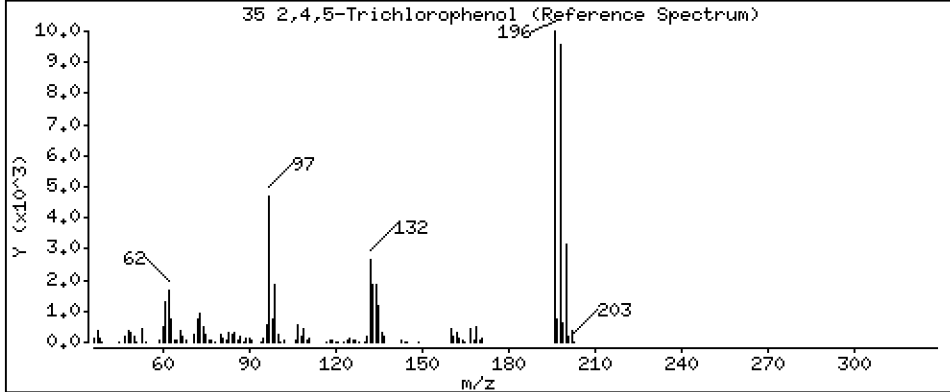
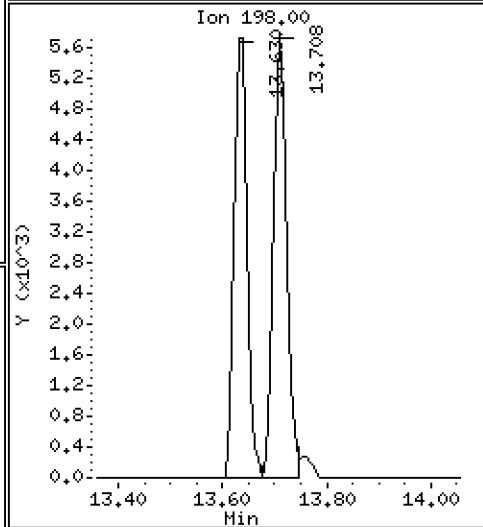
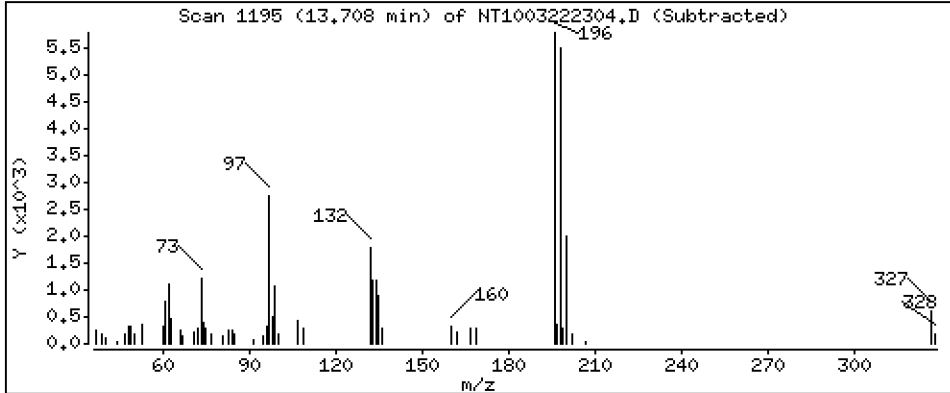
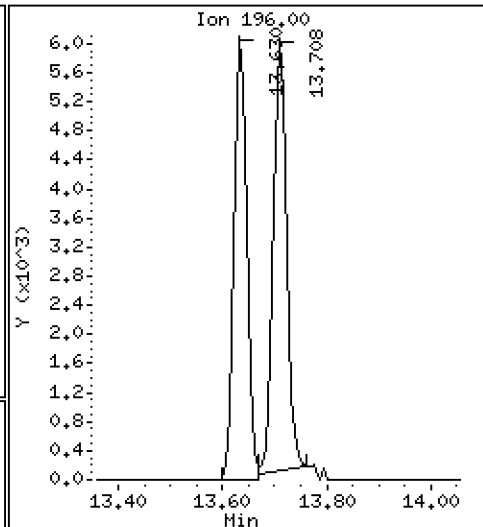
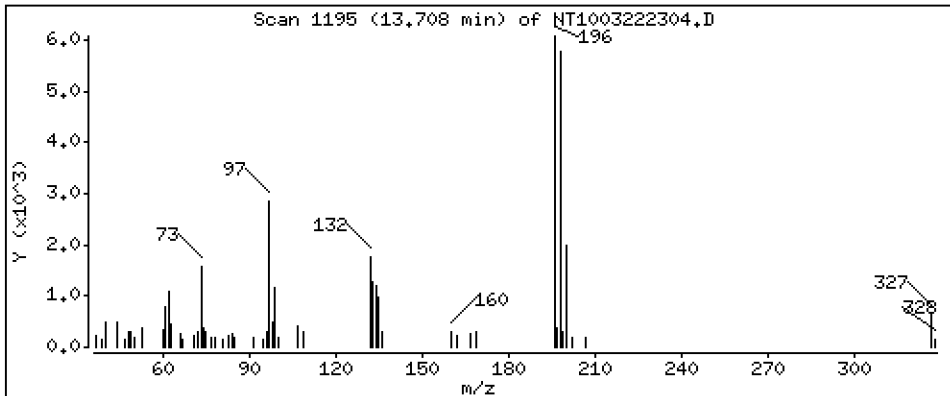
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,3331 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

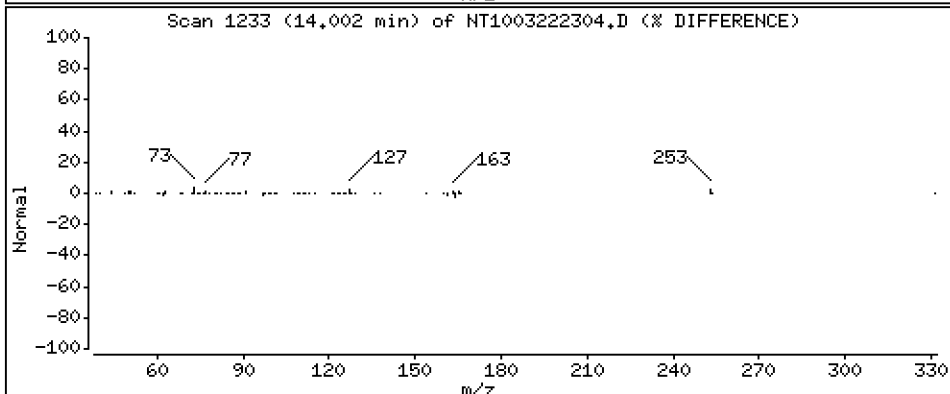
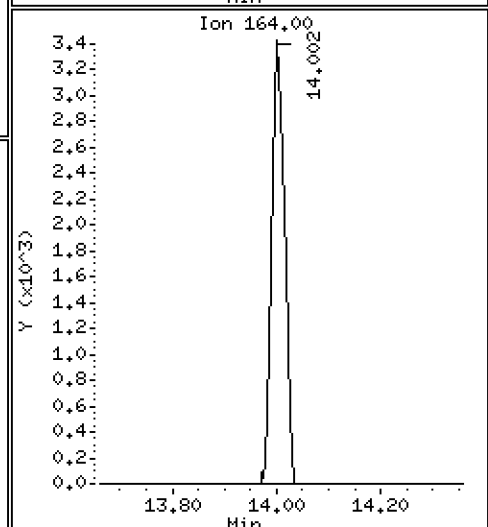
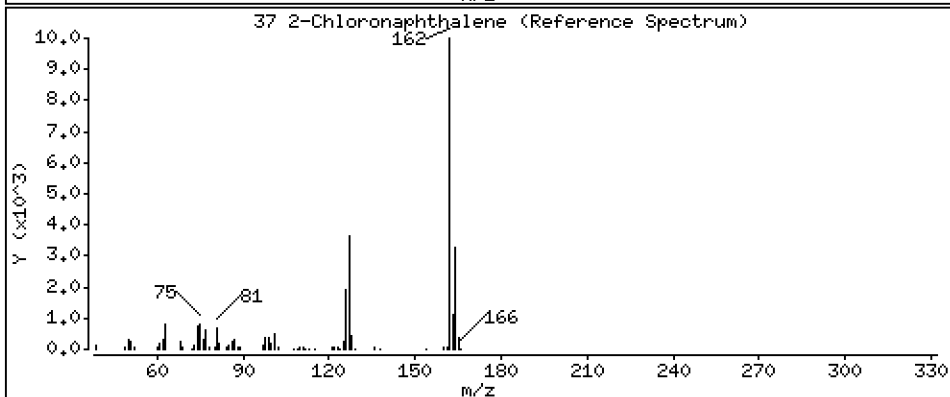
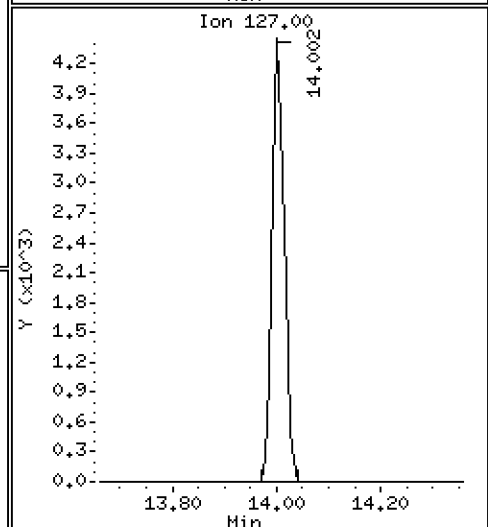
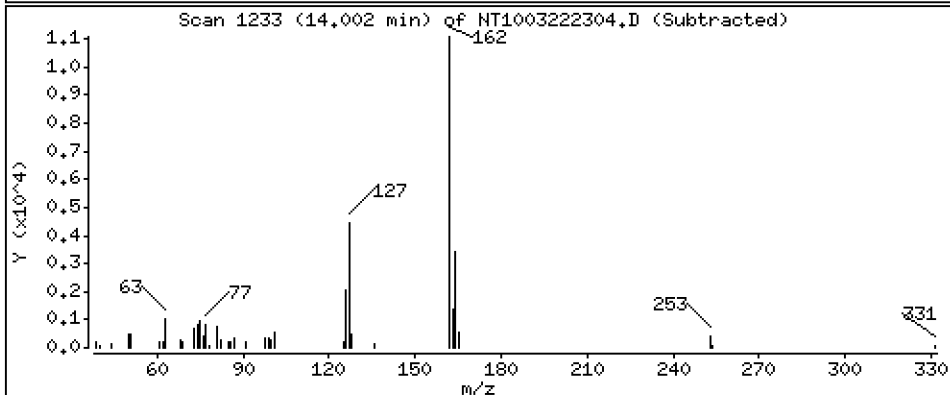
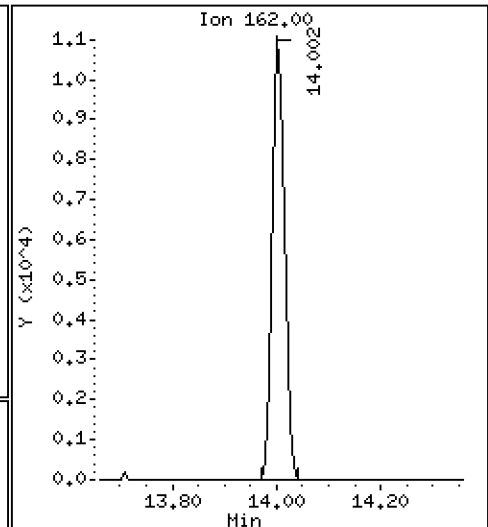
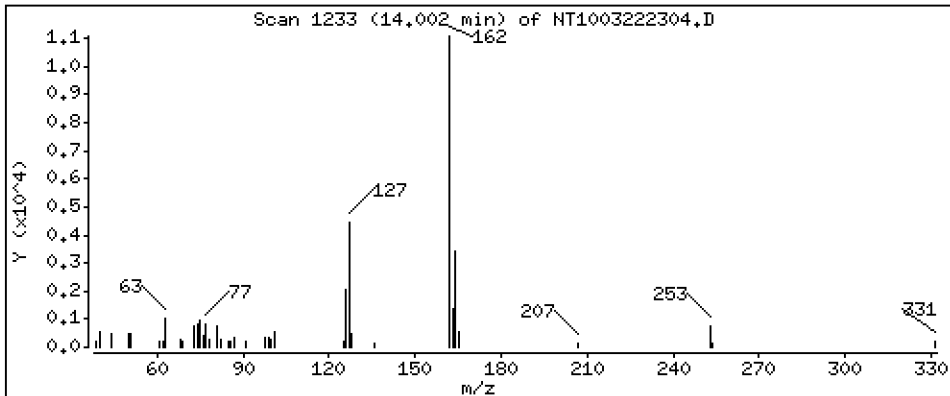
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

37 2-Chloronaphthalene

Concentration: 0.1981 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

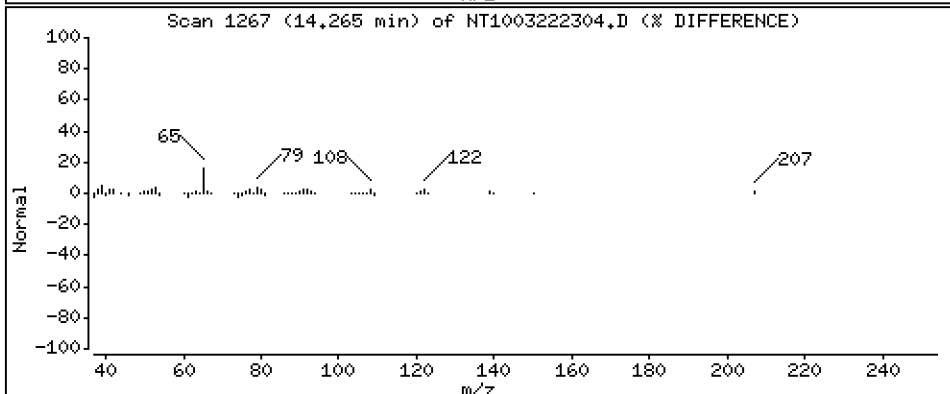
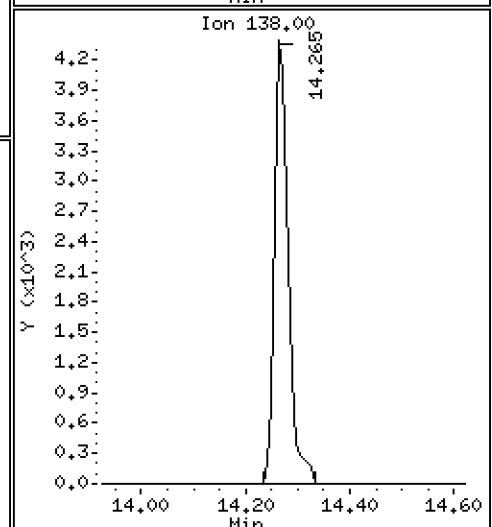
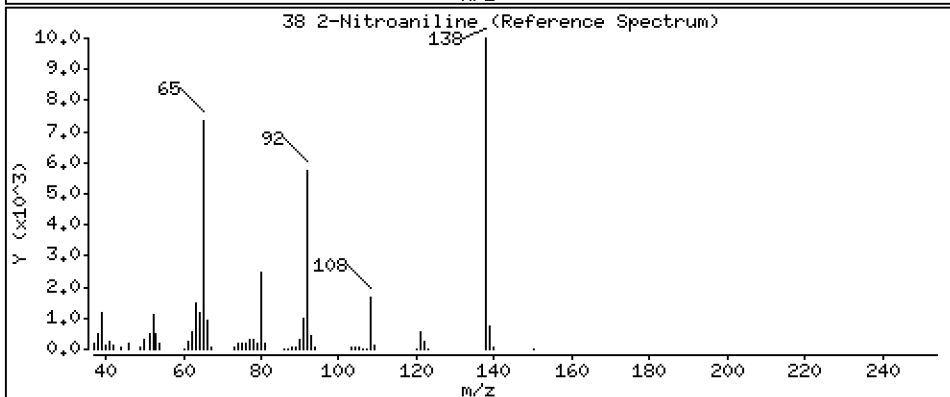
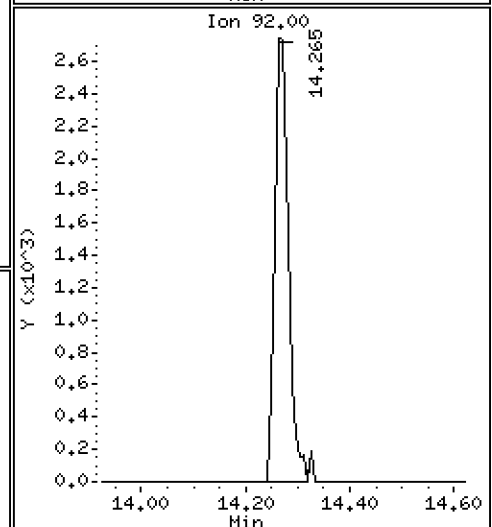
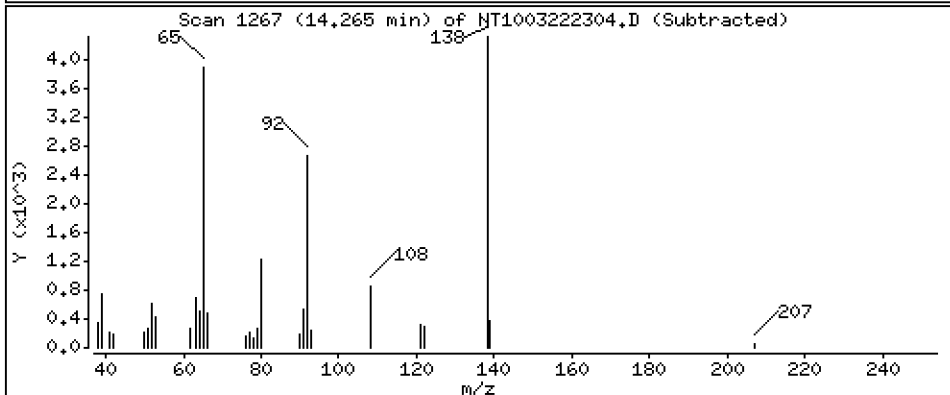
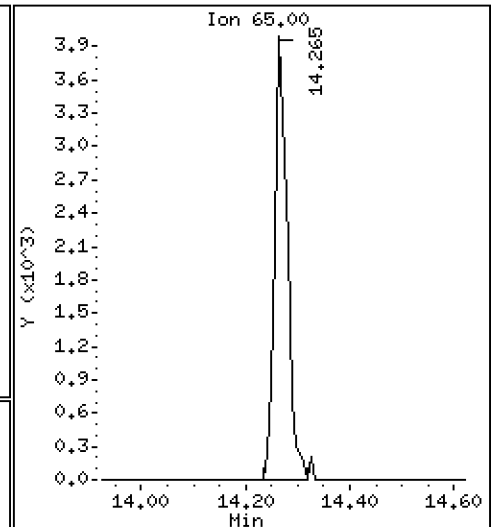
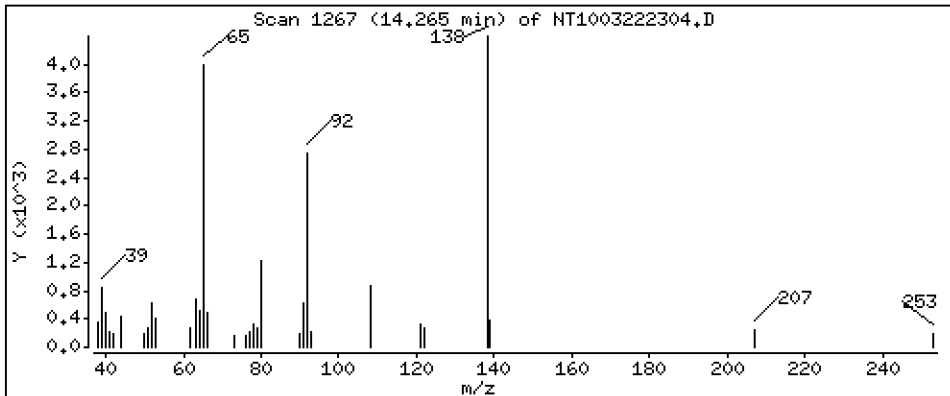
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,2630 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

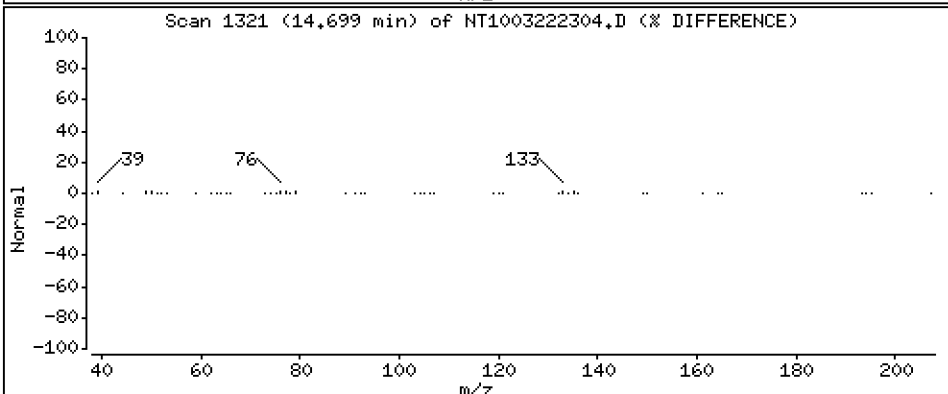
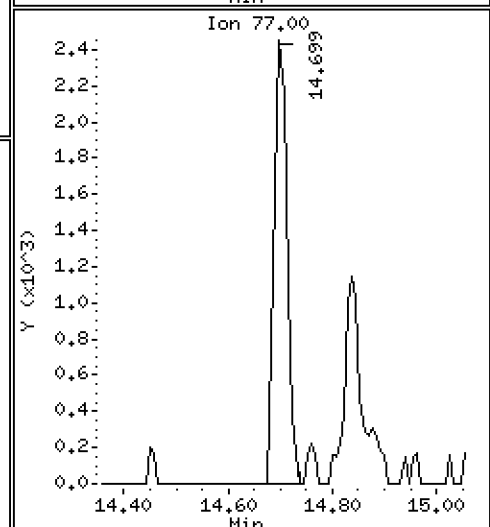
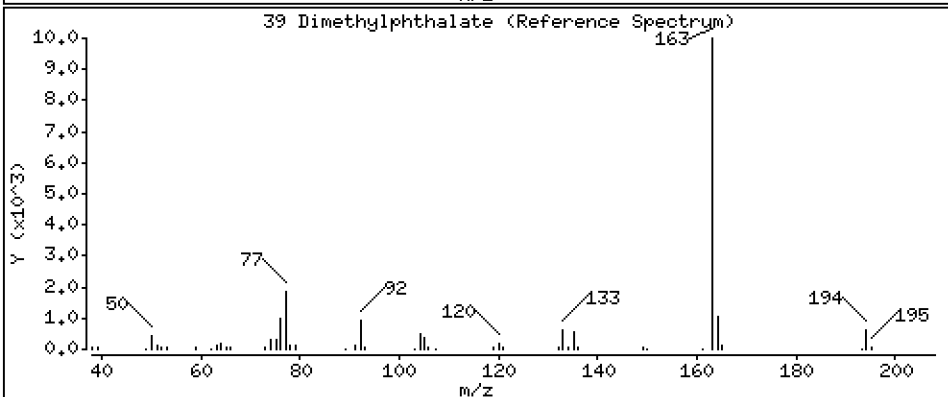
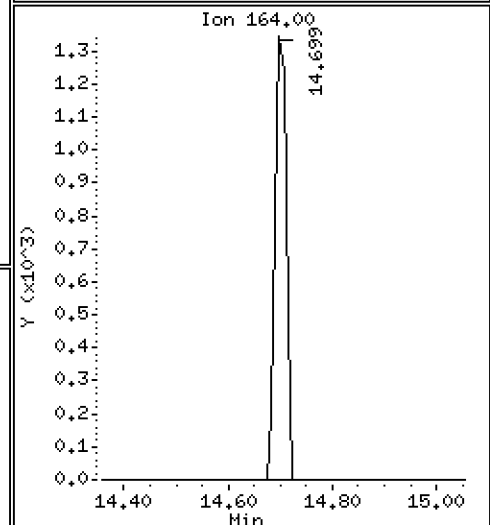
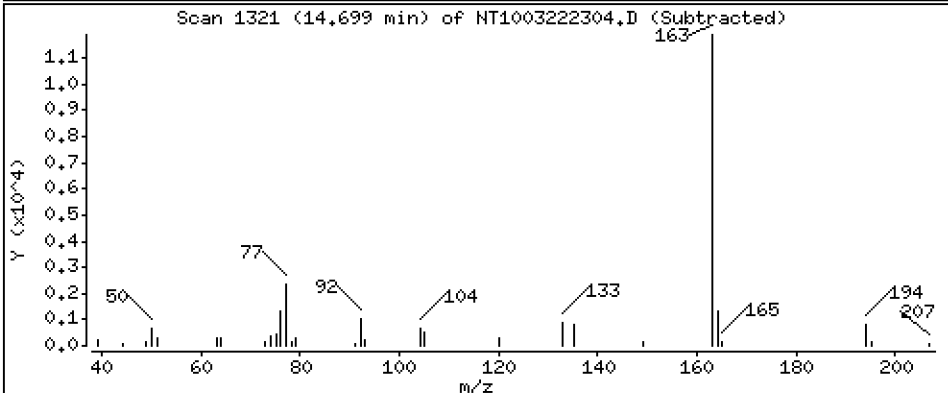
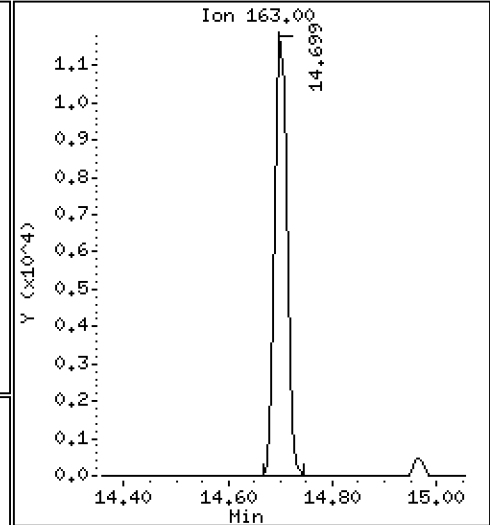
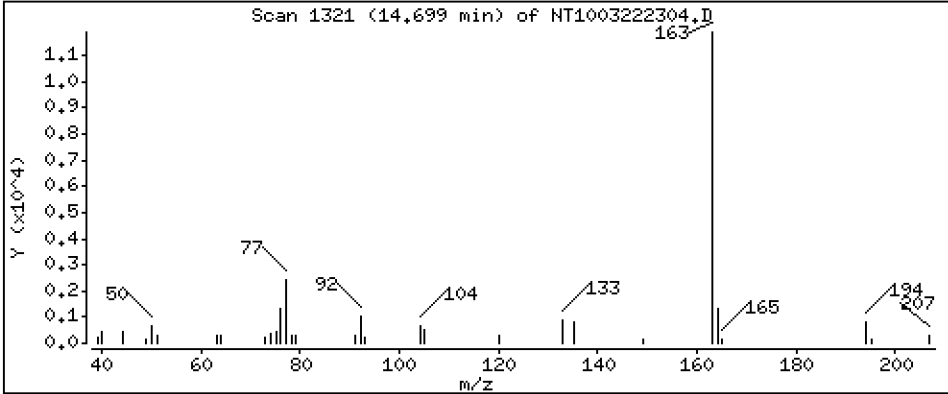
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2038 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

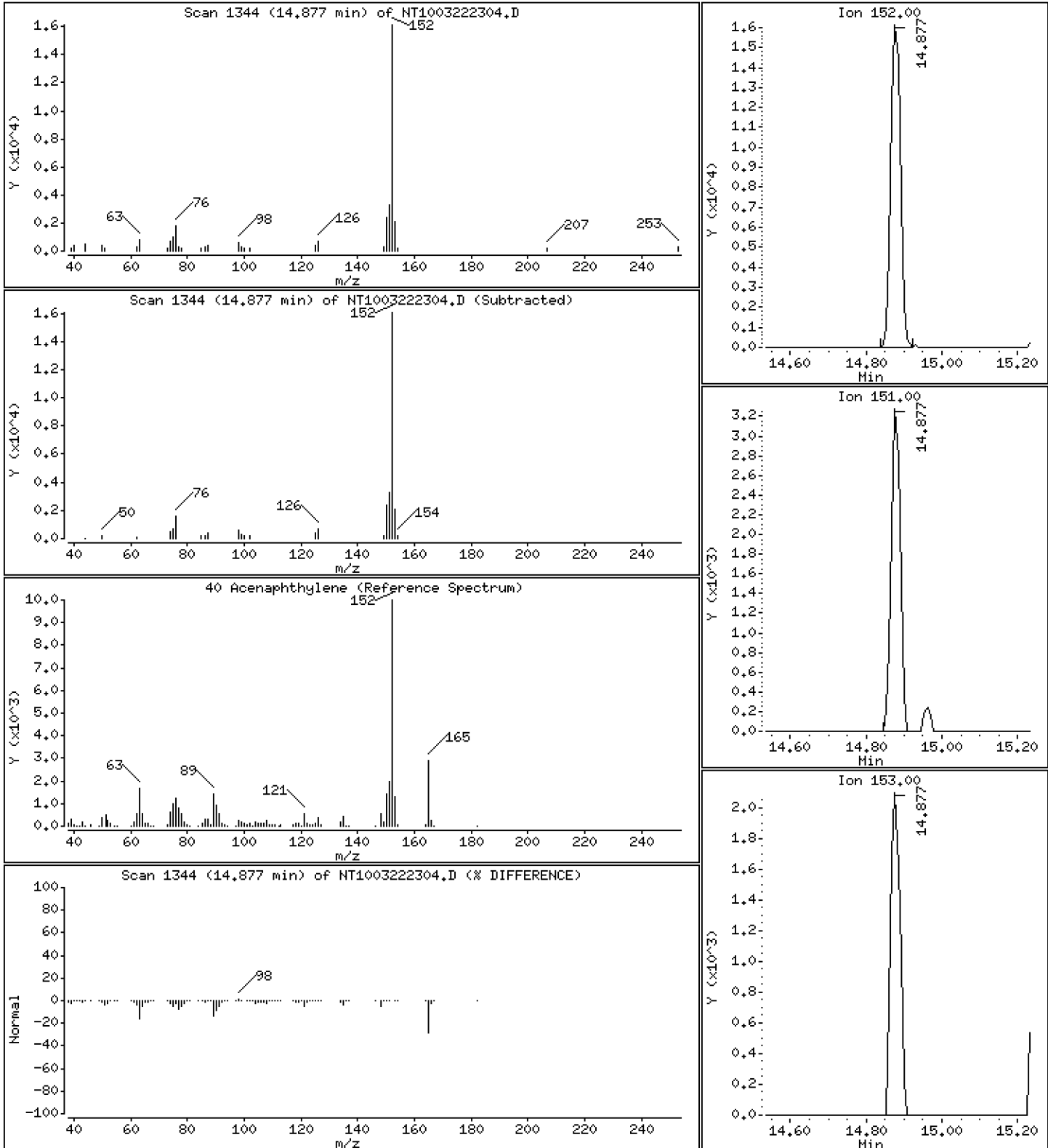
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,1982 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

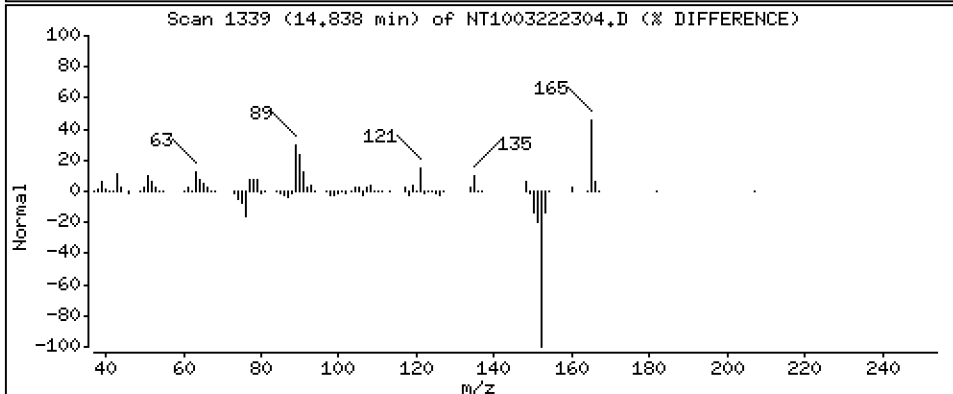
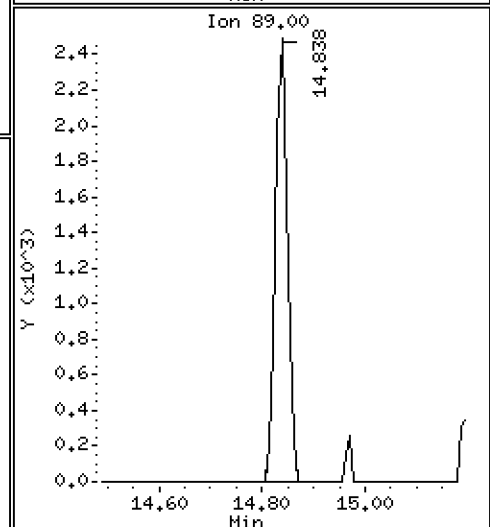
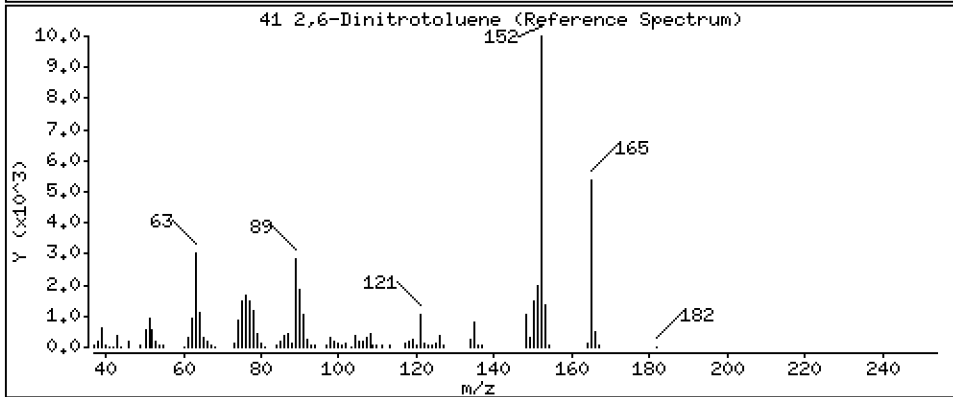
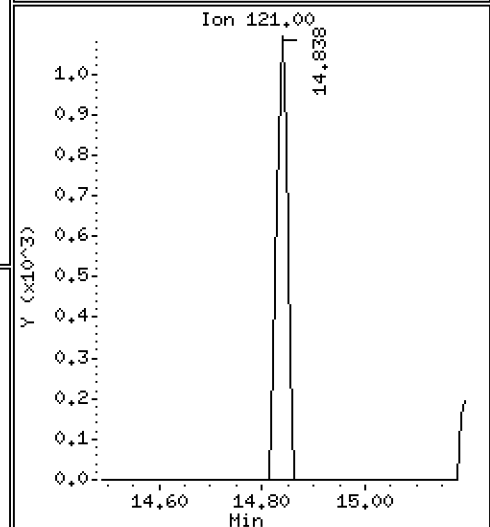
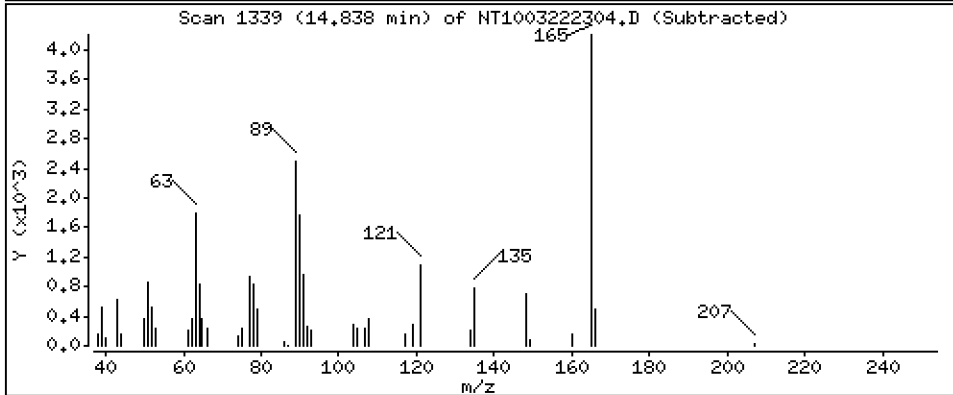
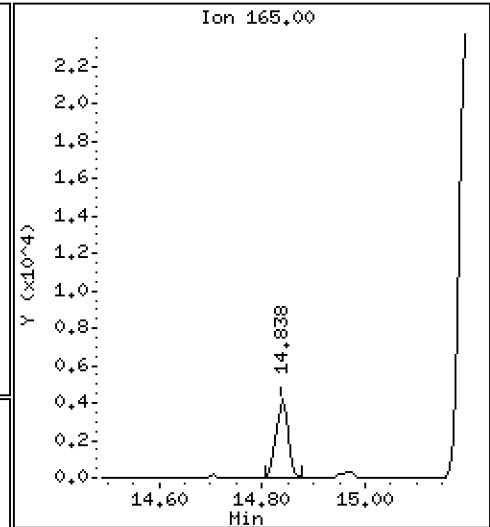
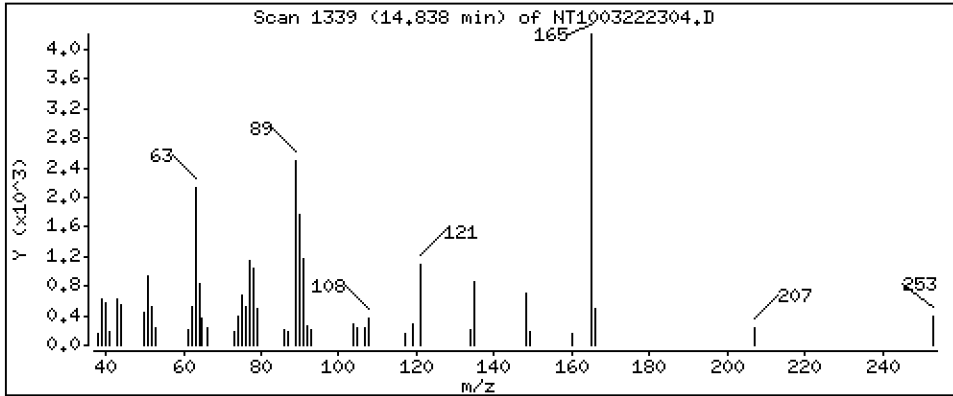
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 0.3243 ug/mL





Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

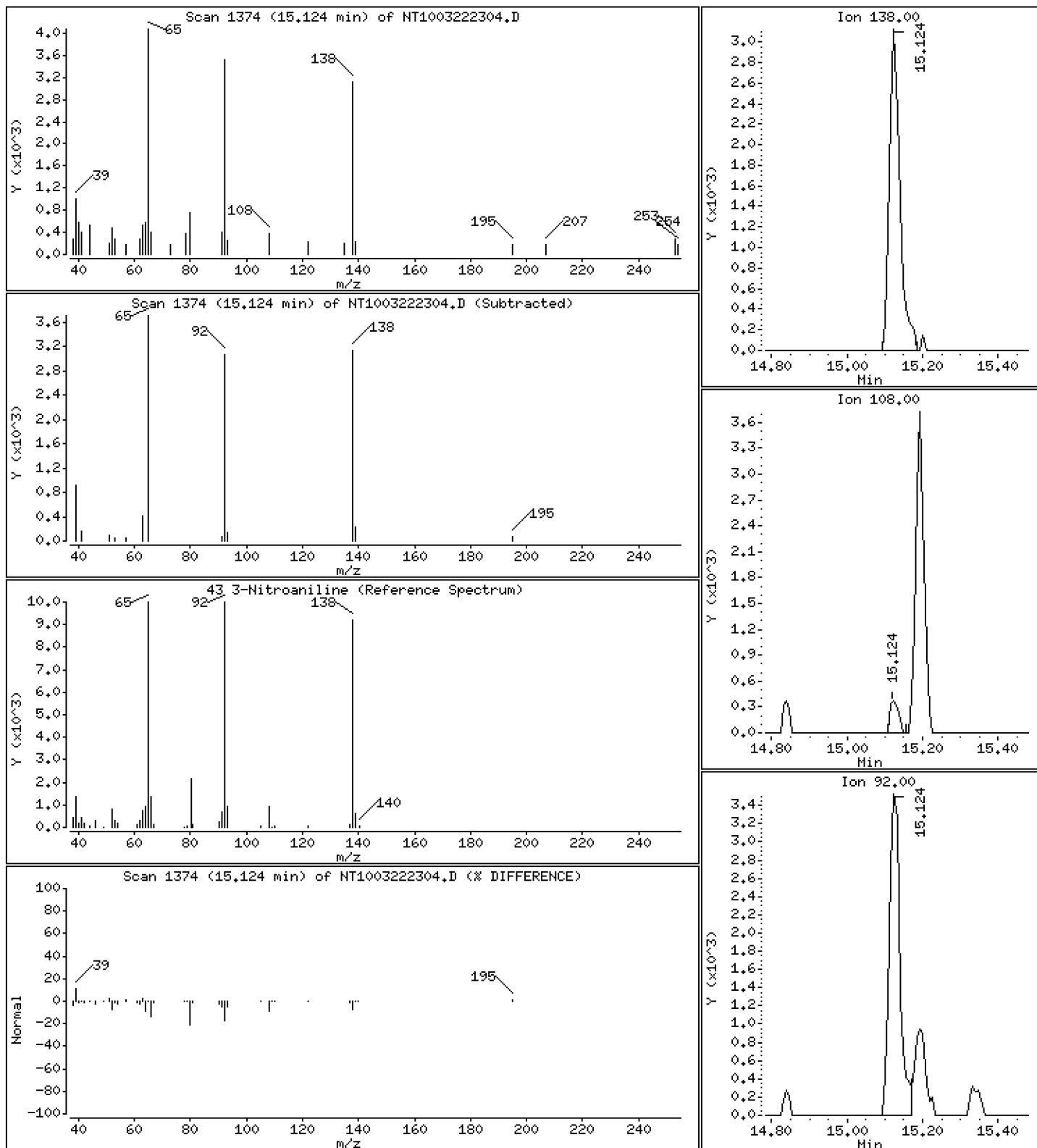
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,2629 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

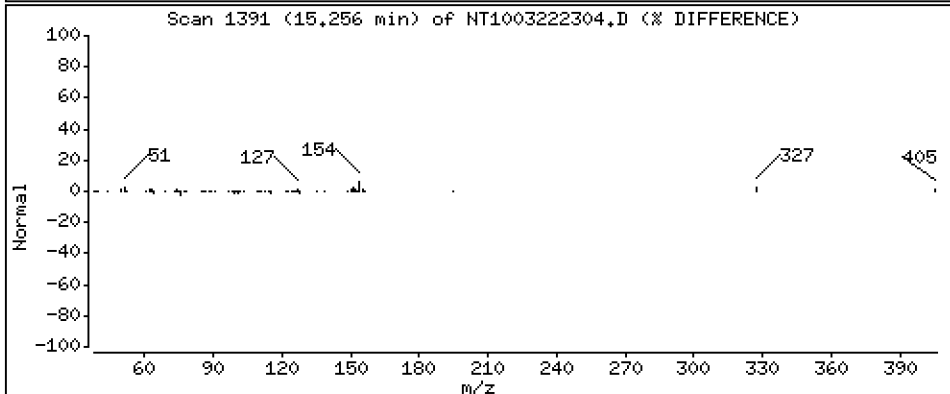
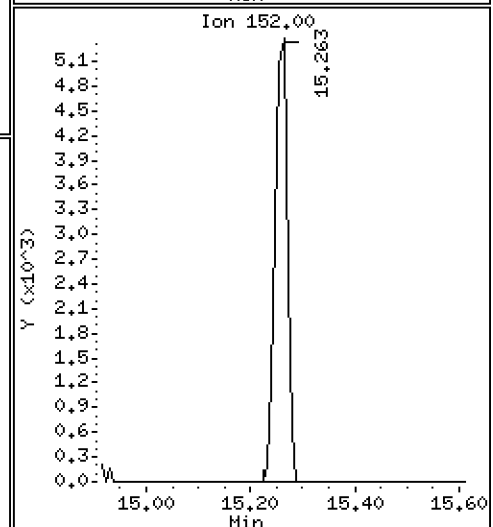
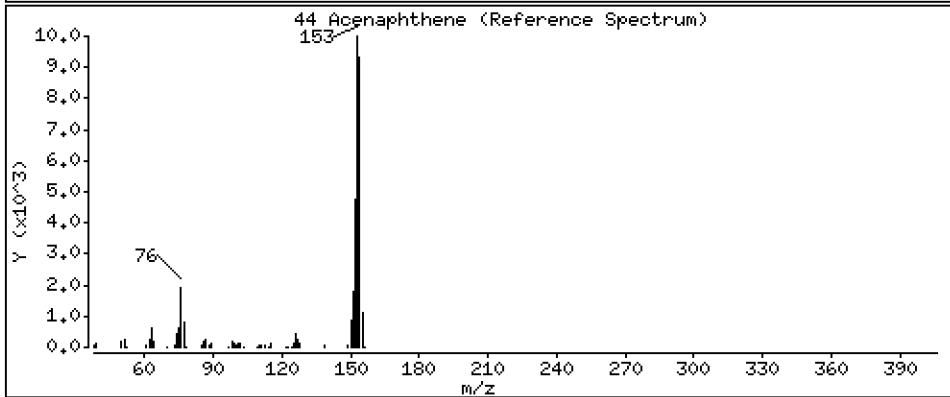
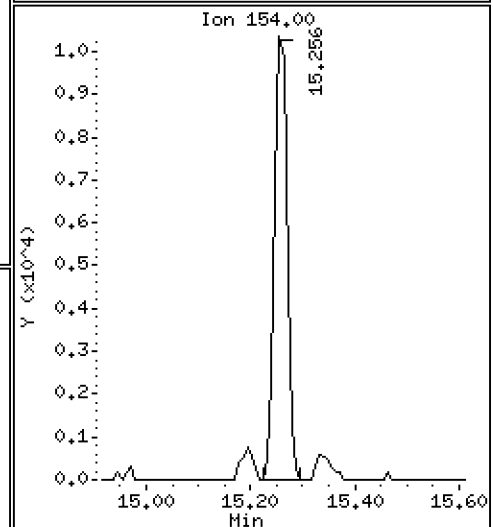
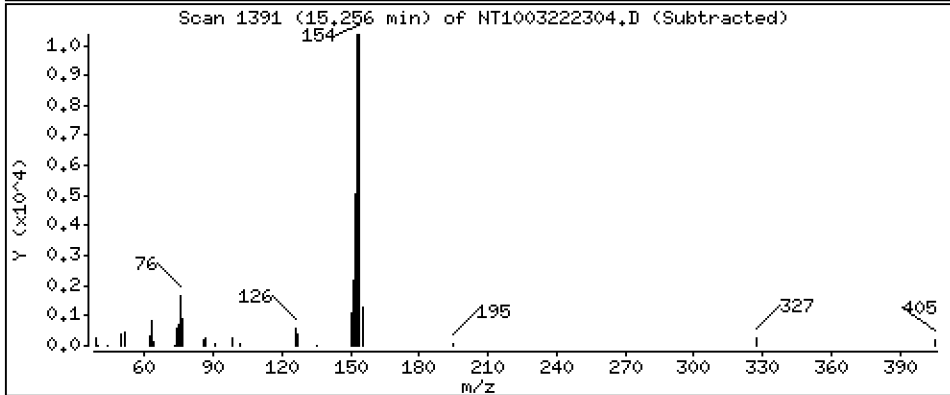
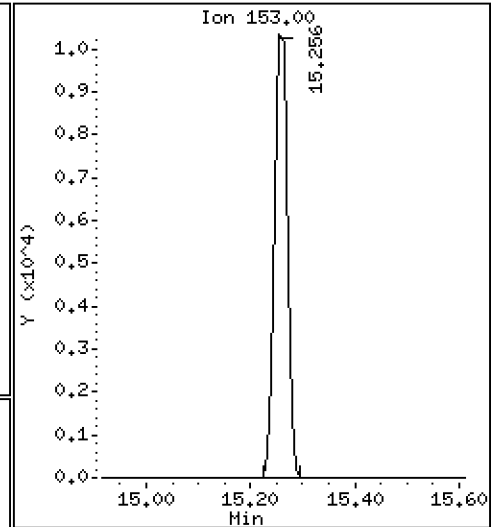
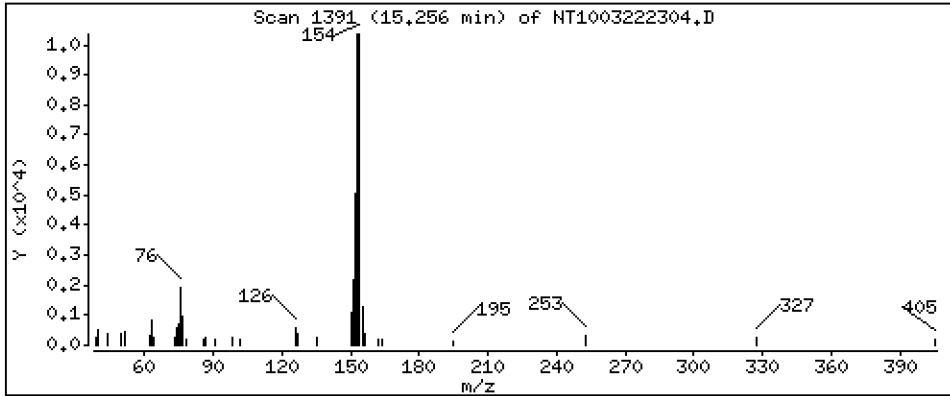
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,1979 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

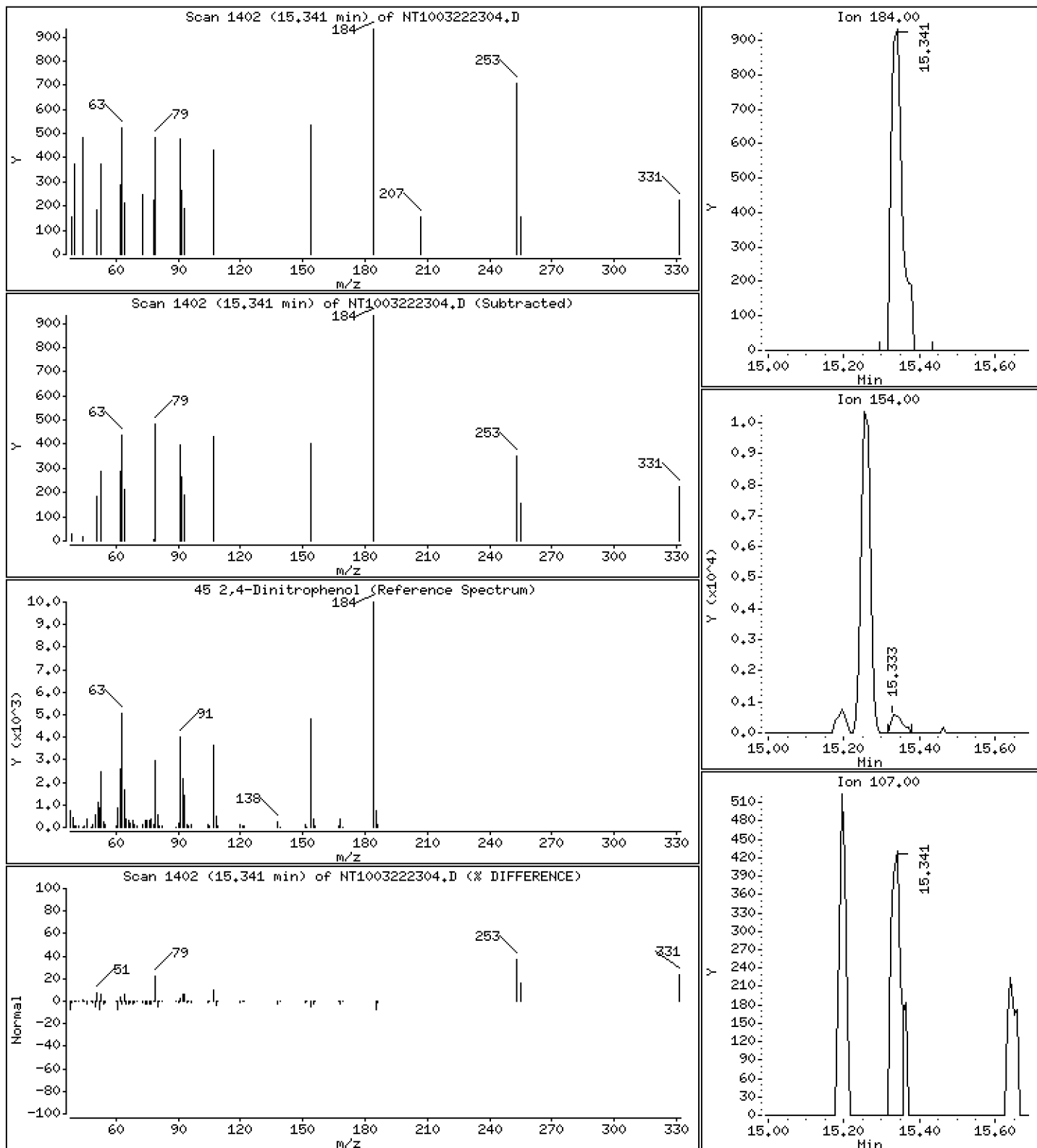
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,1555 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

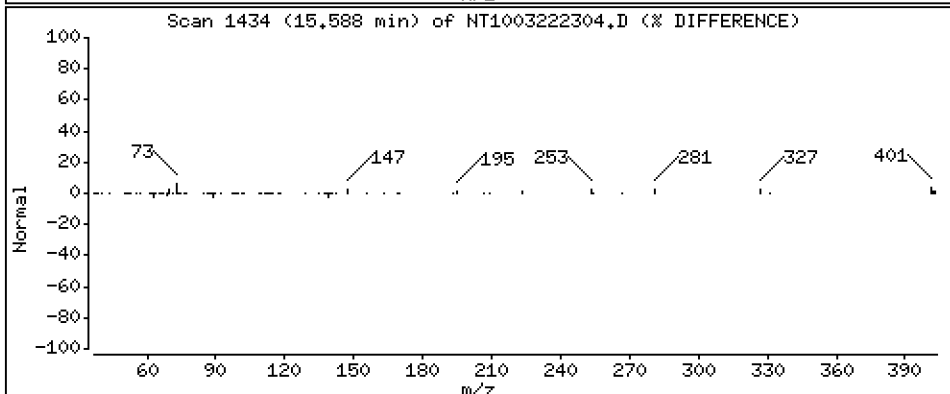
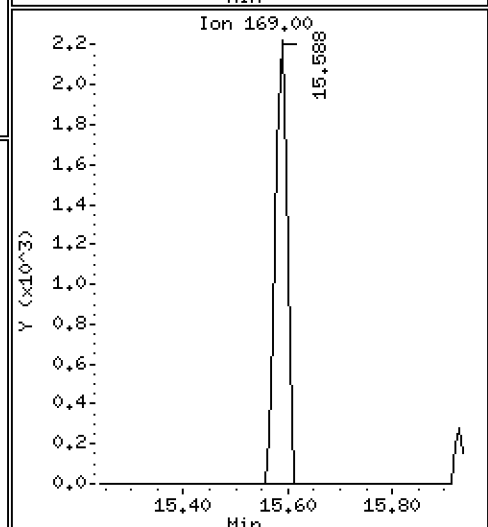
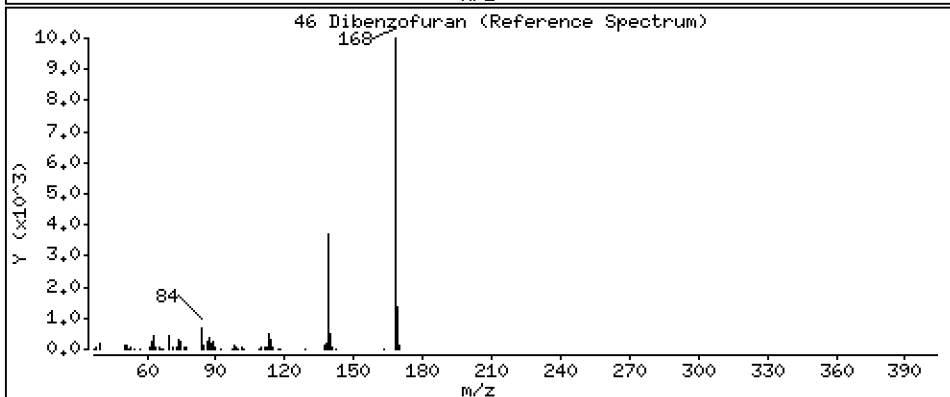
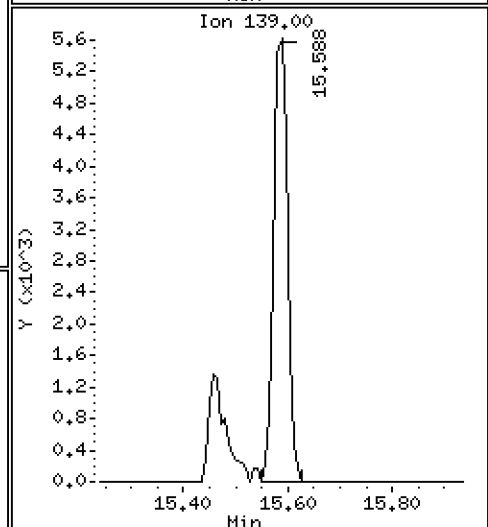
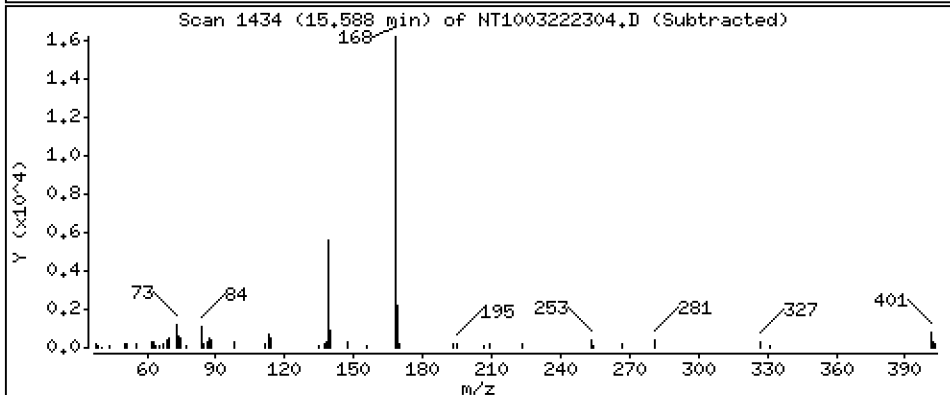
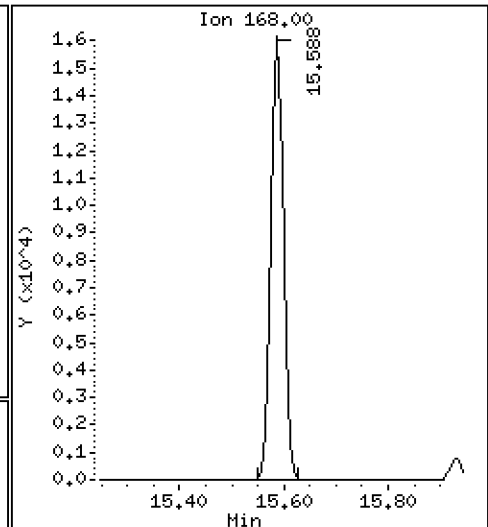
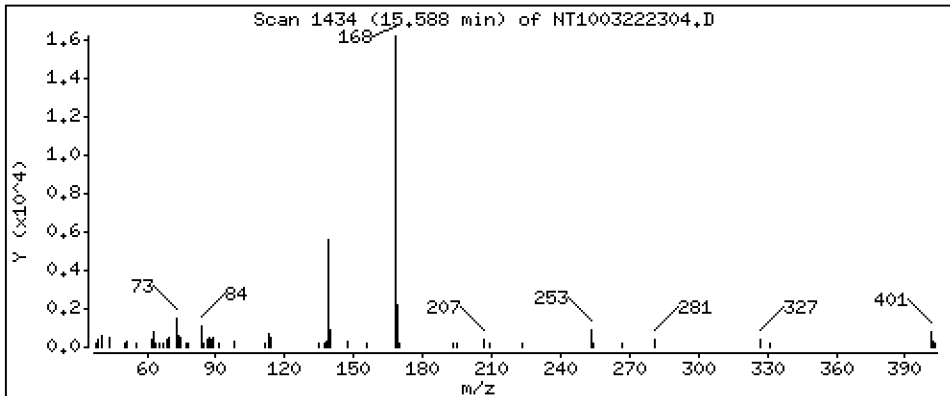
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,2034 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

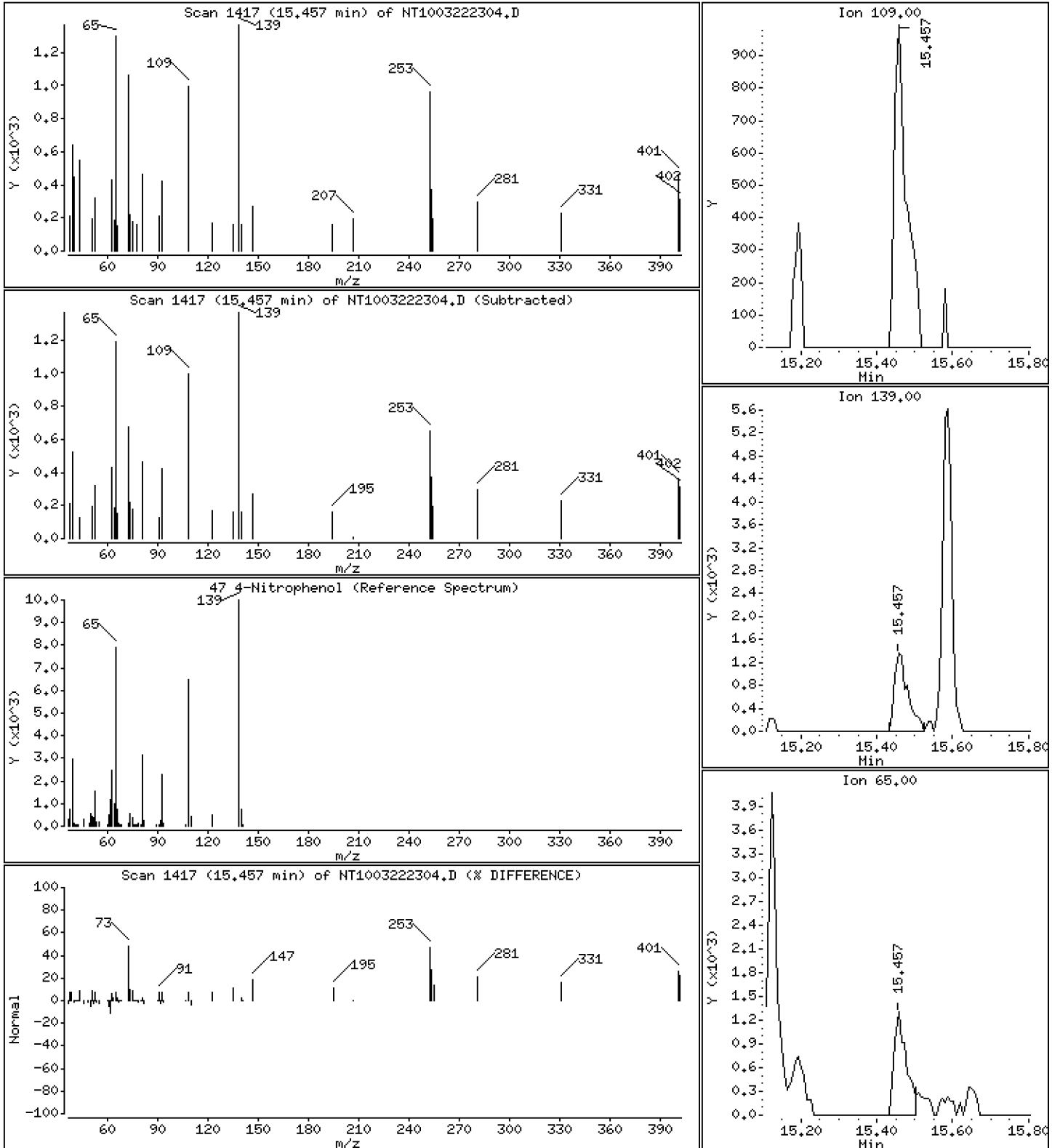
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

47 4-Nitrophenol

Concentration: 0.1585 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

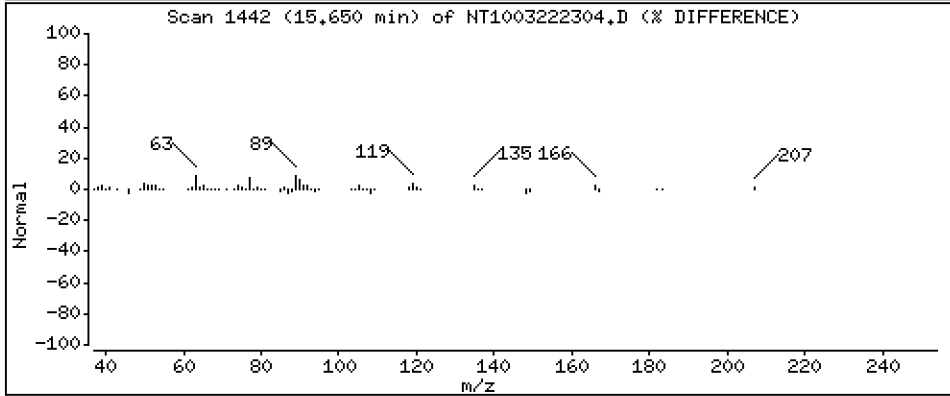
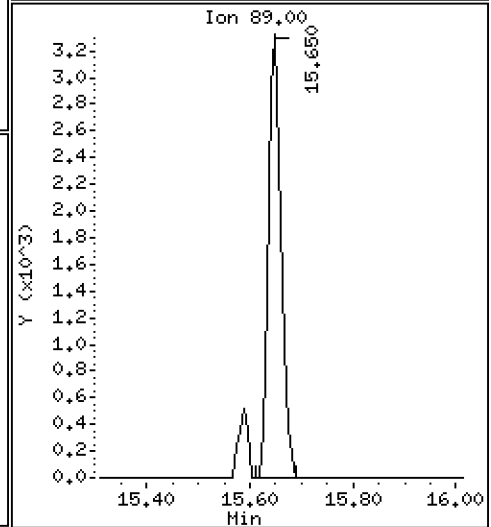
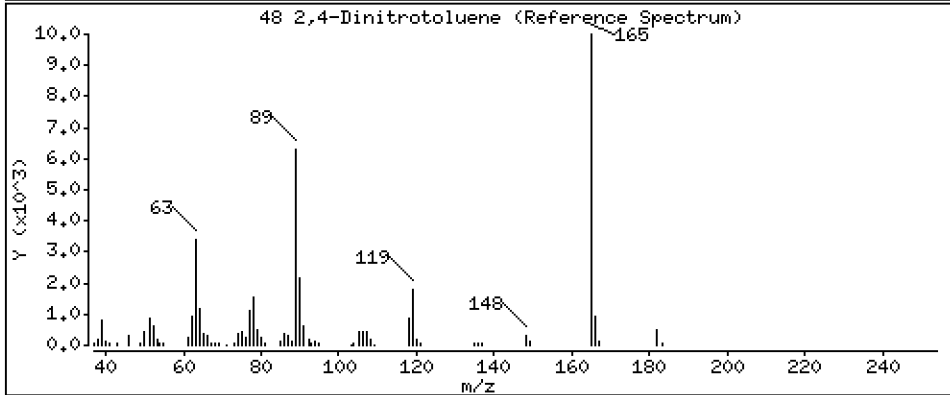
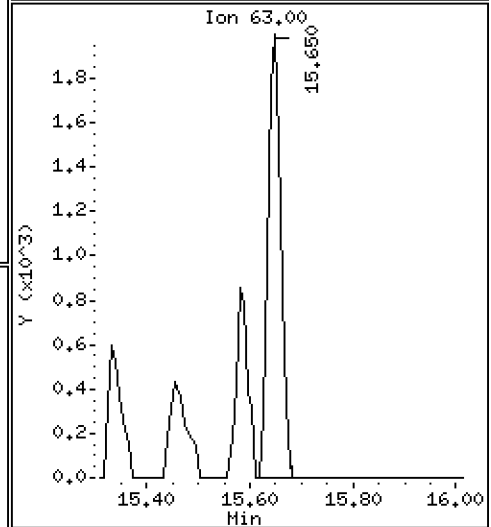
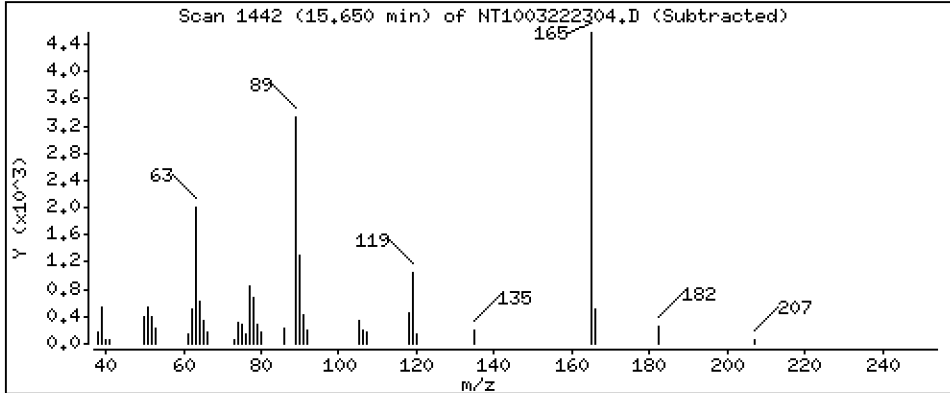
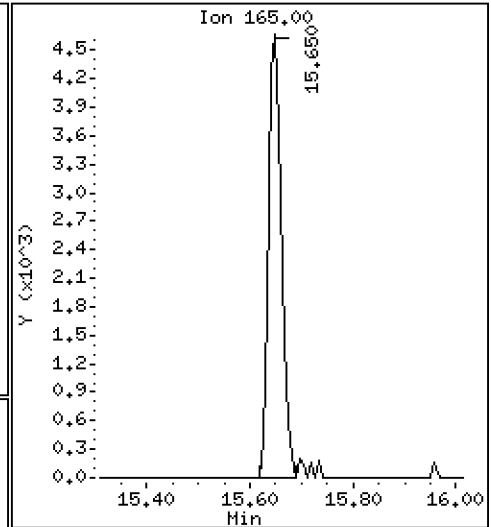
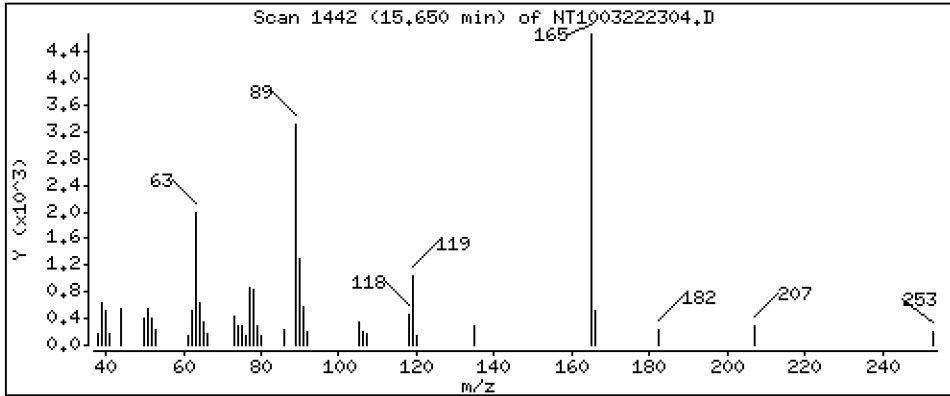
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 0,2693 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

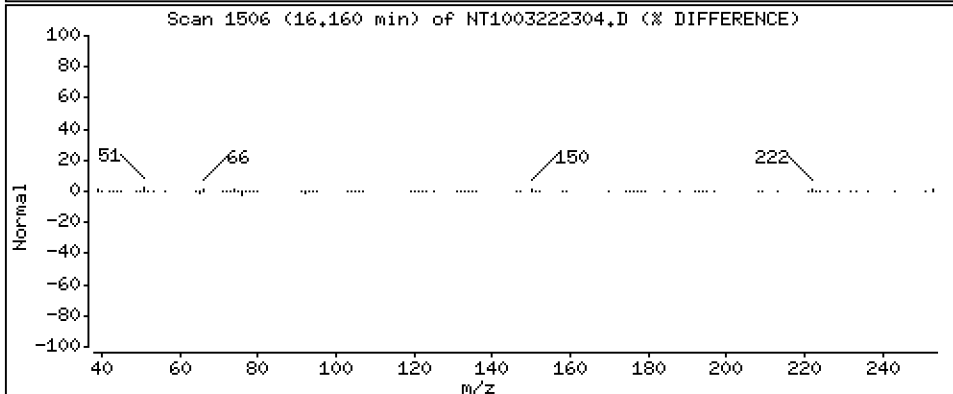
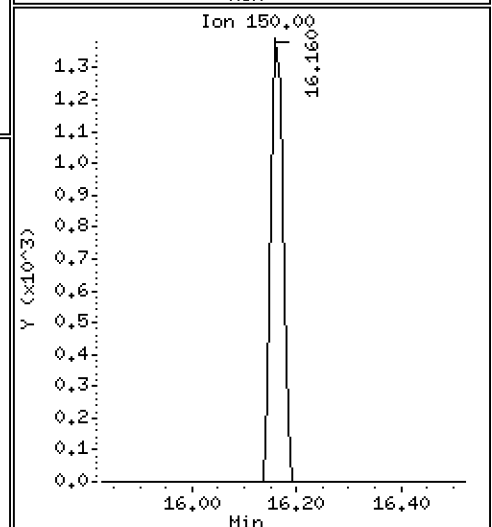
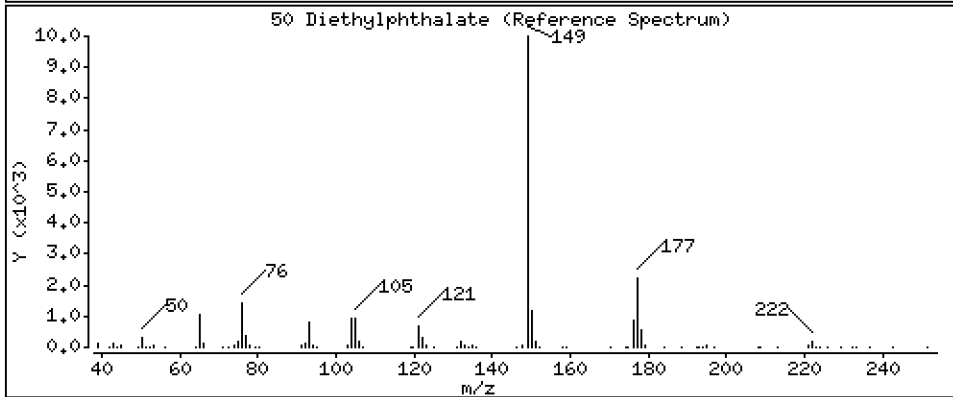
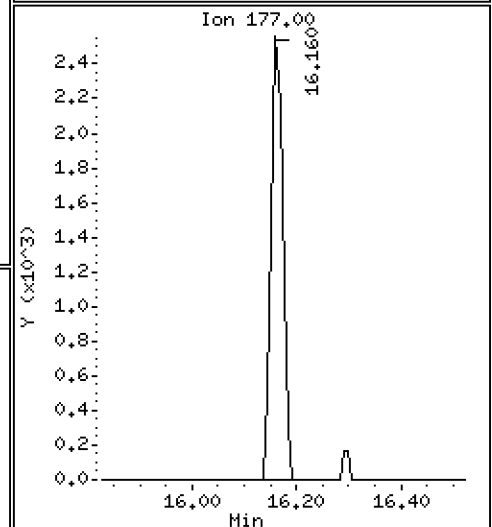
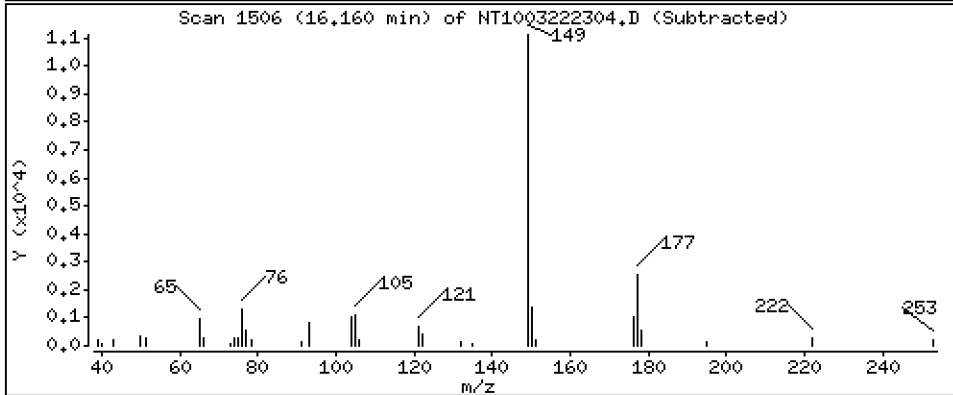
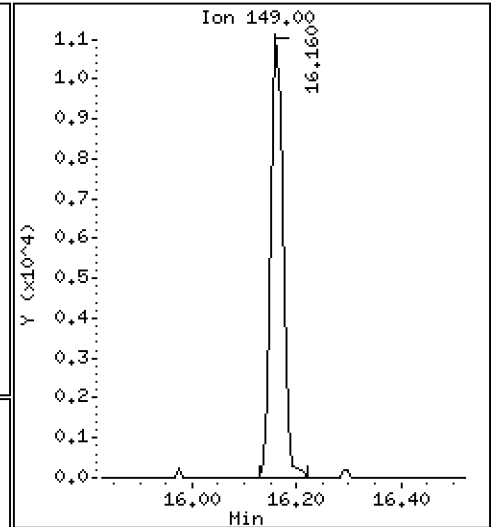
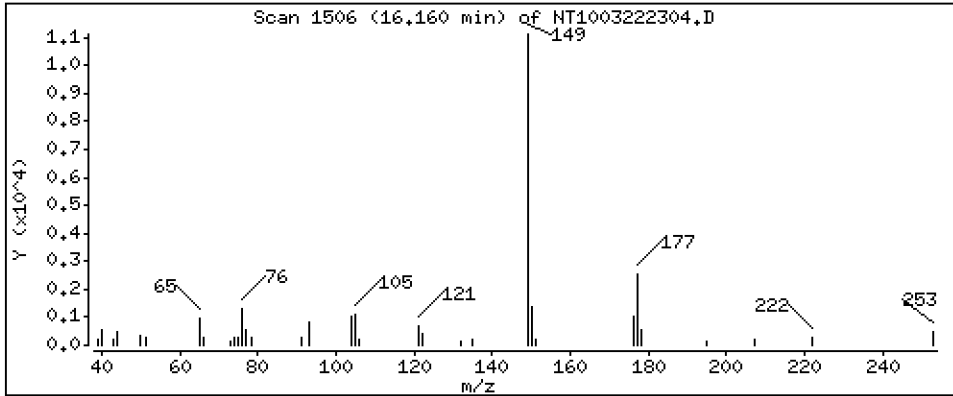
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2293 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

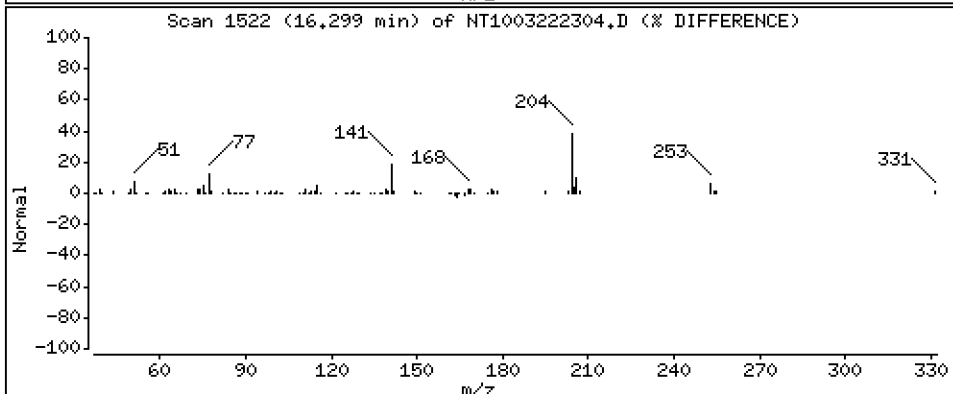
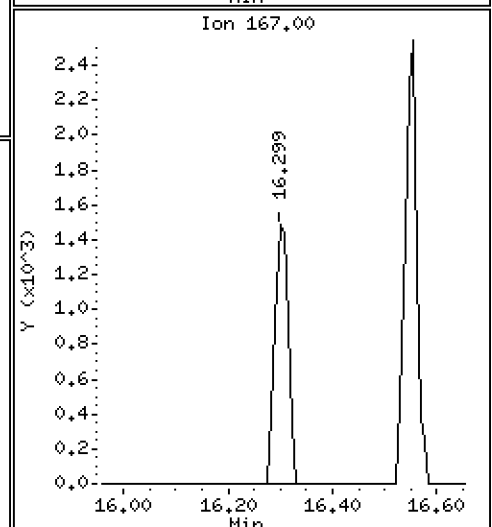
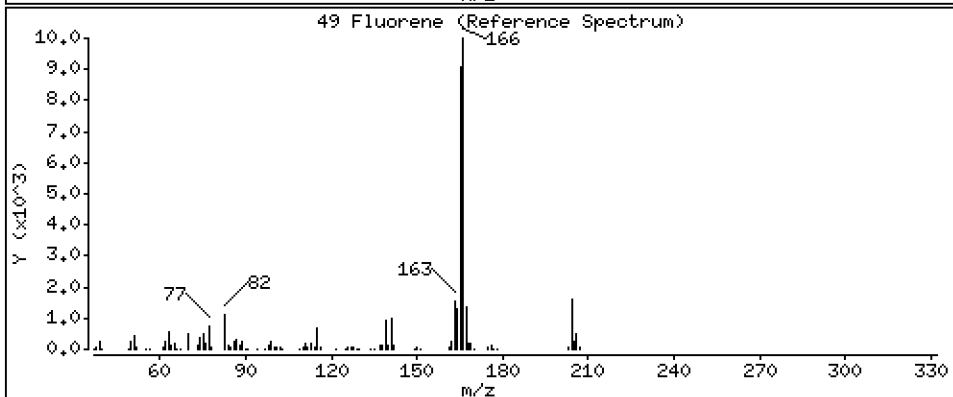
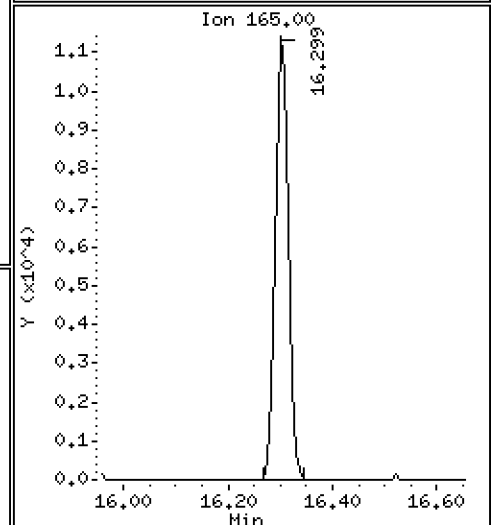
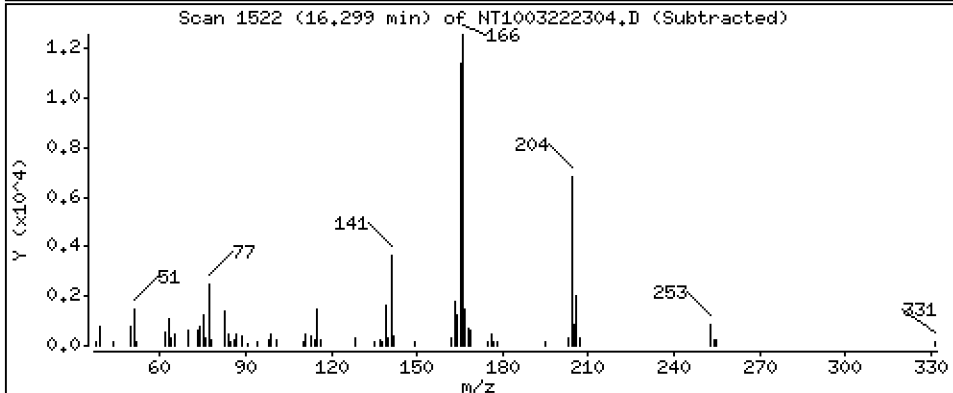
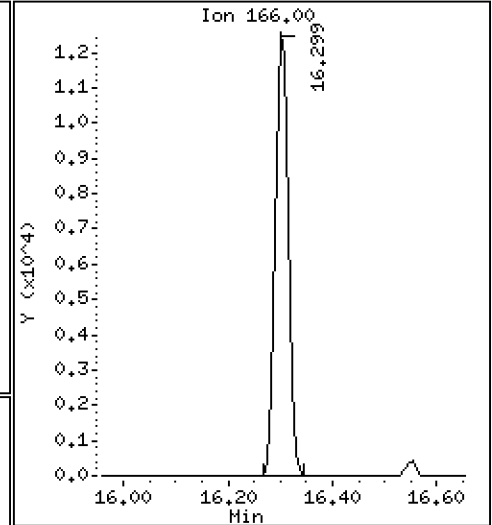
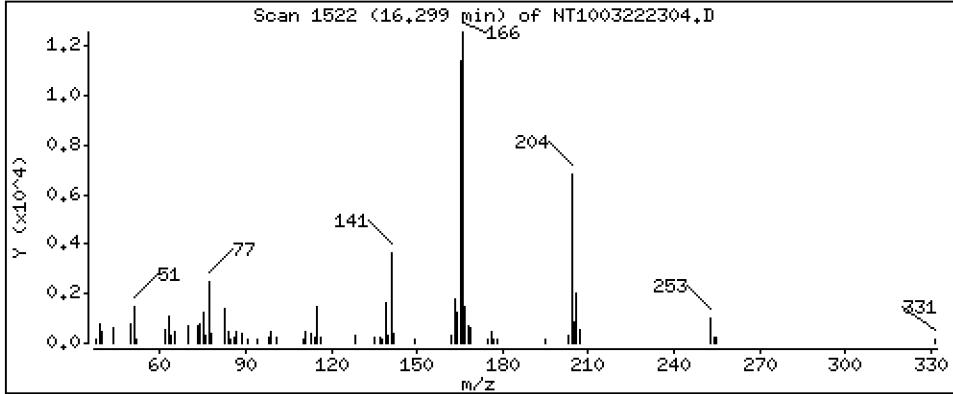
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,2106 ug/mL





Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

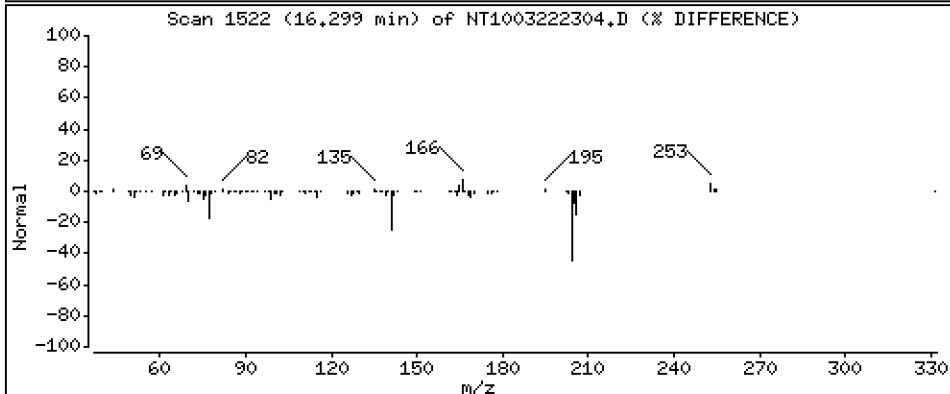
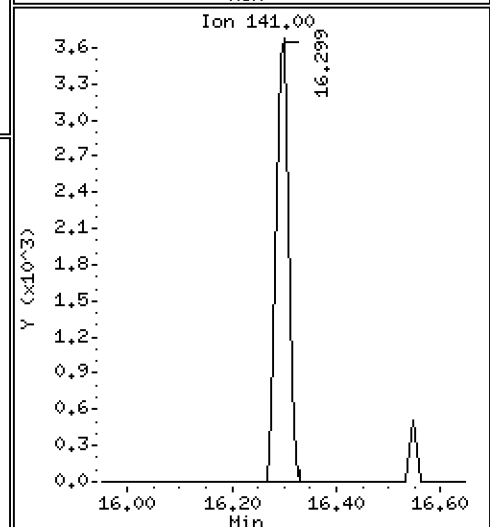
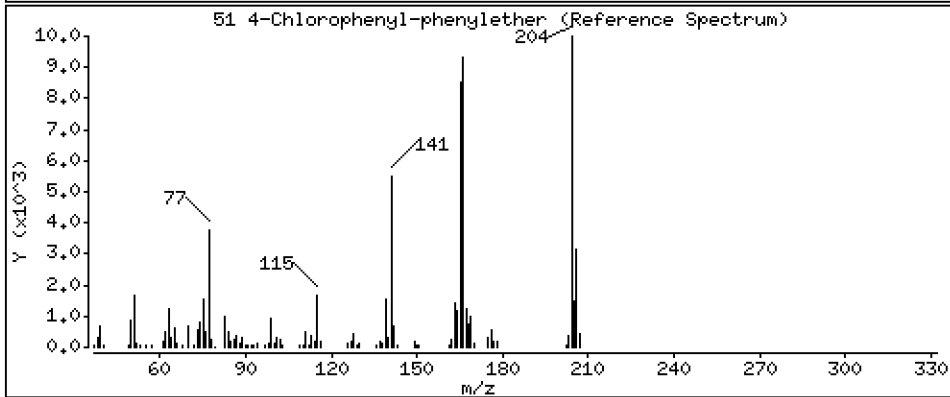
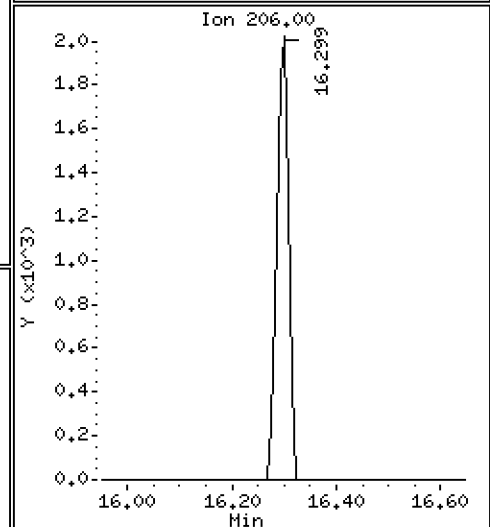
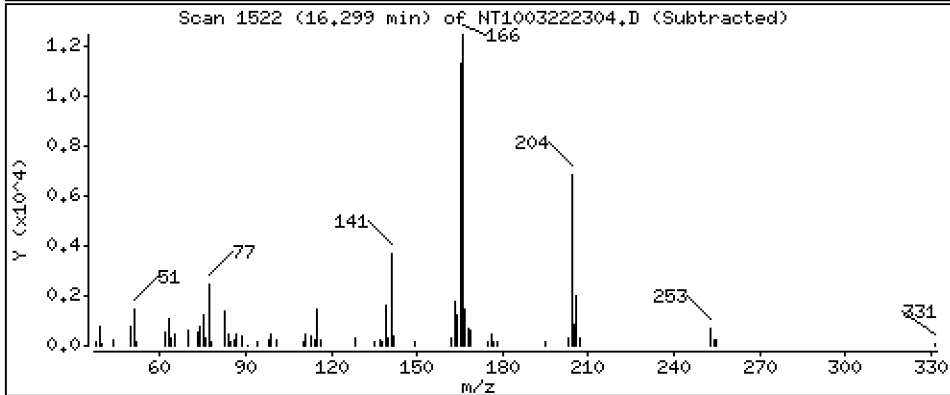
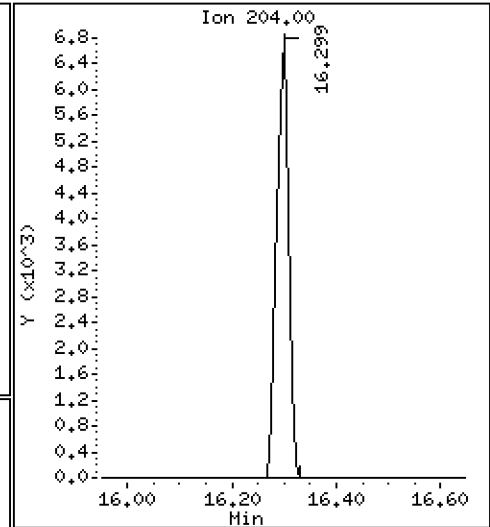
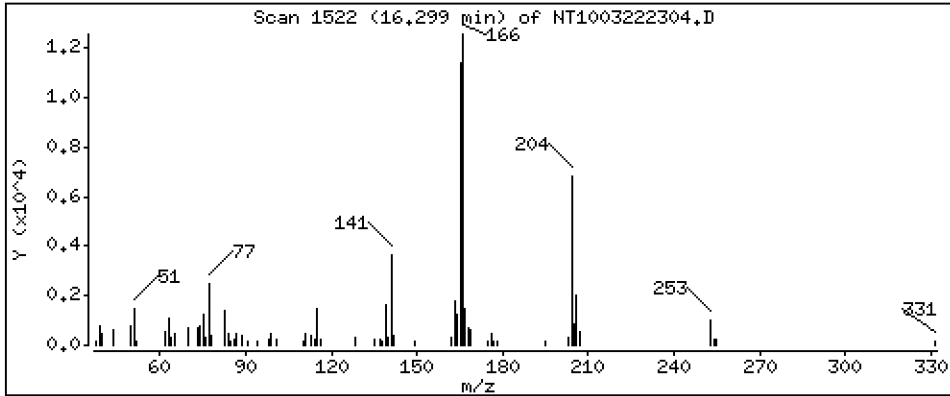
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,2215 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

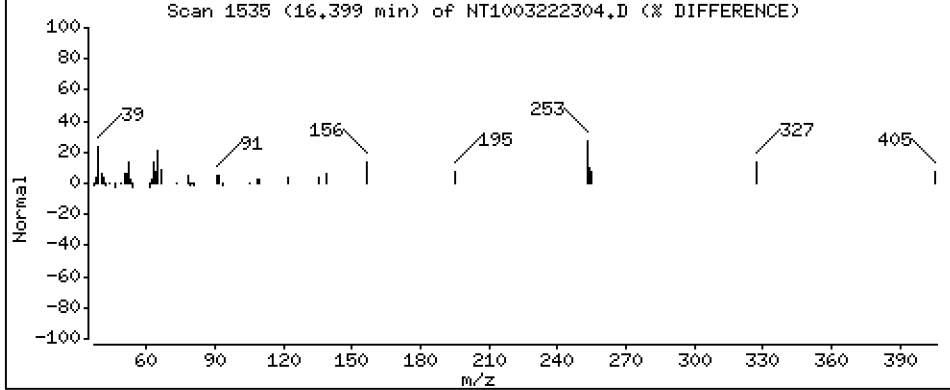
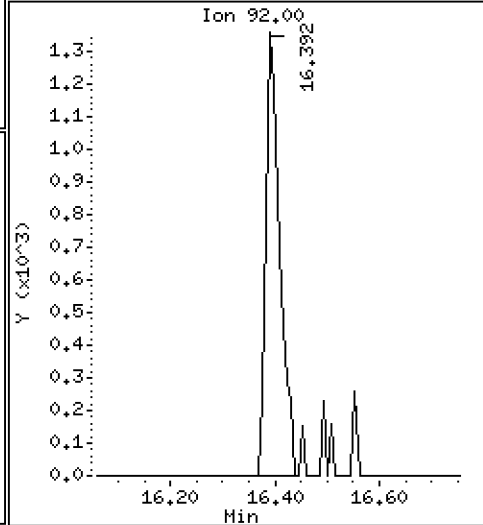
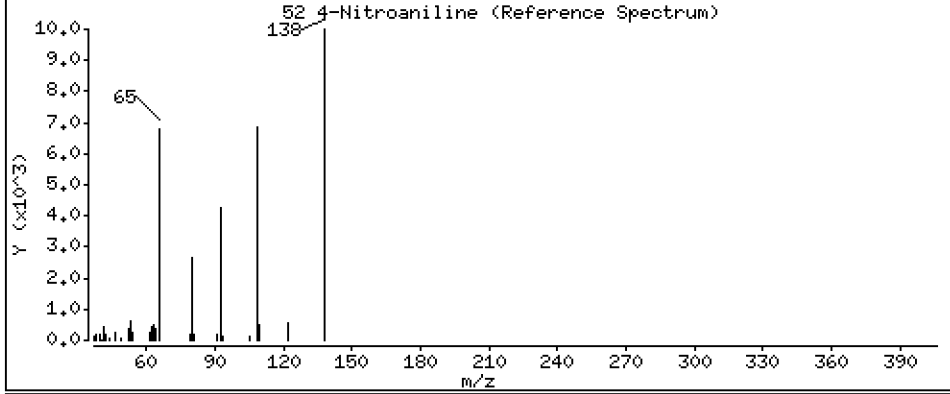
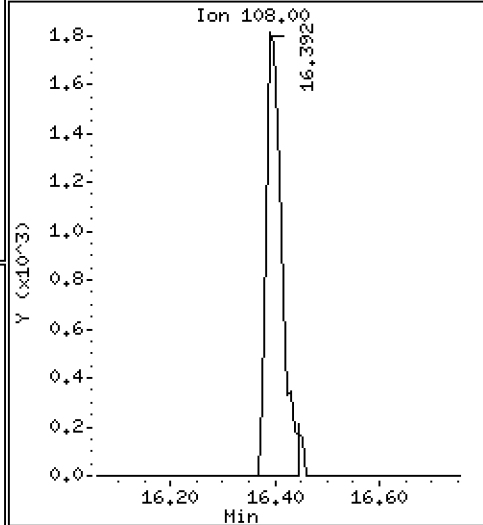
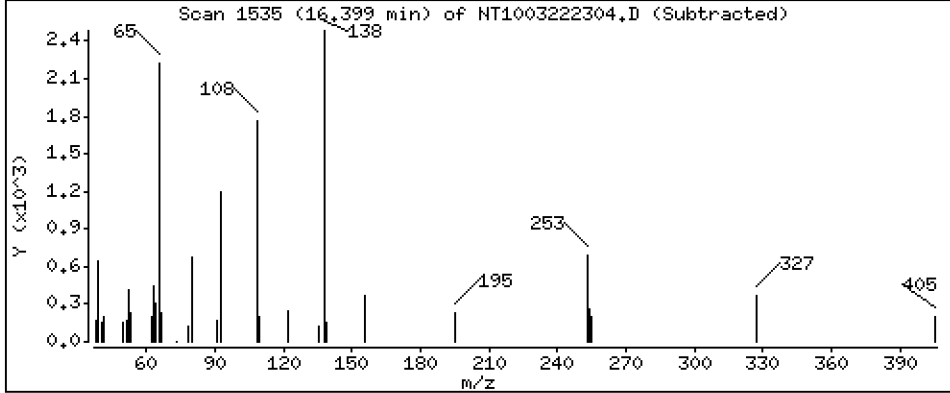
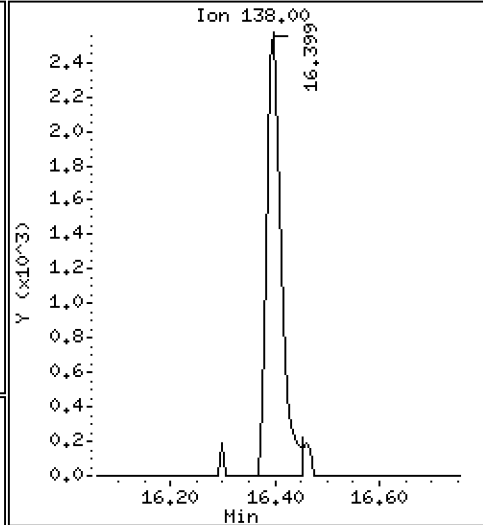
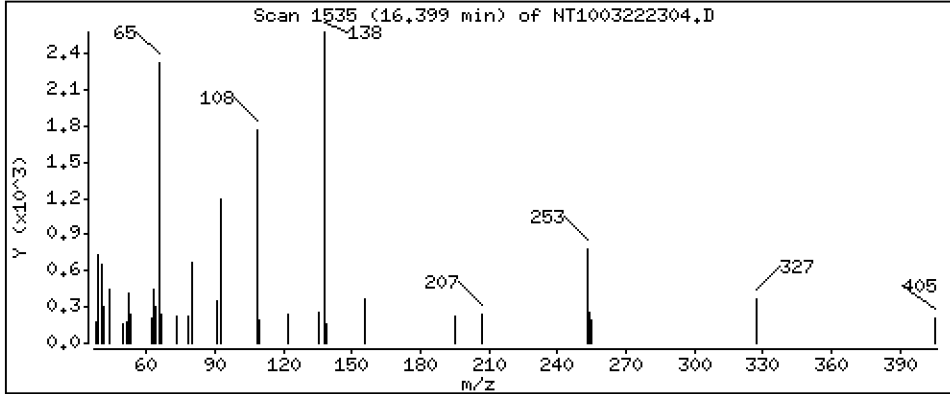
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,2456 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

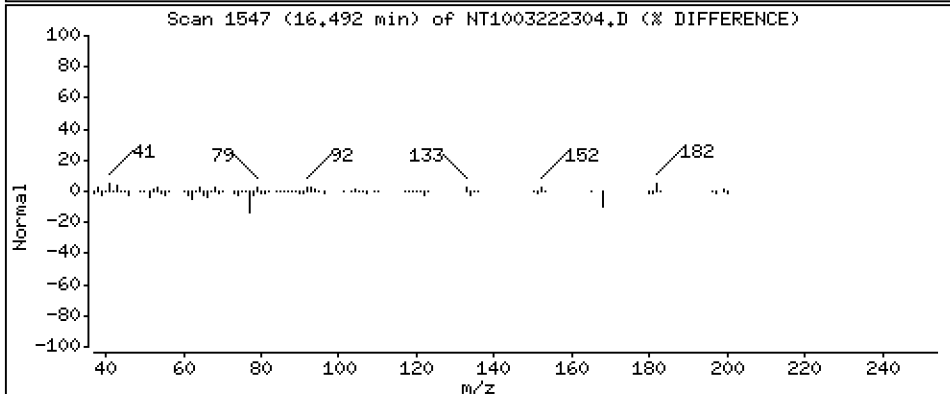
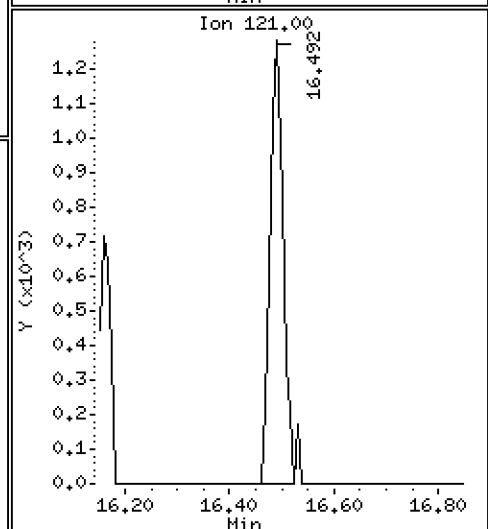
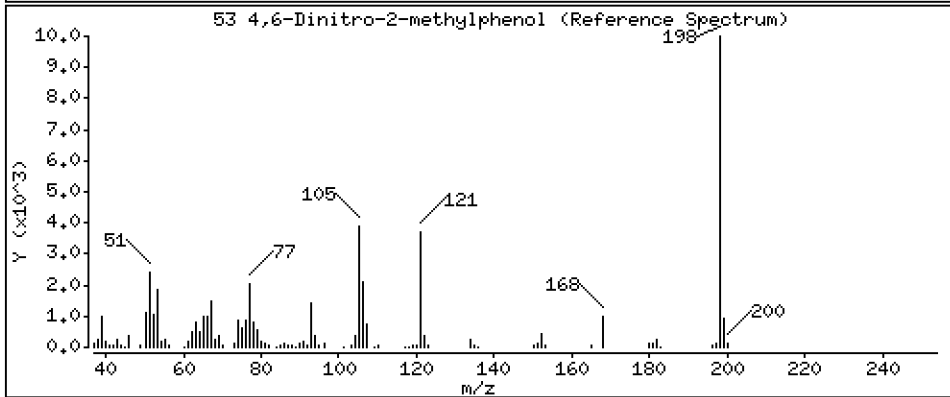
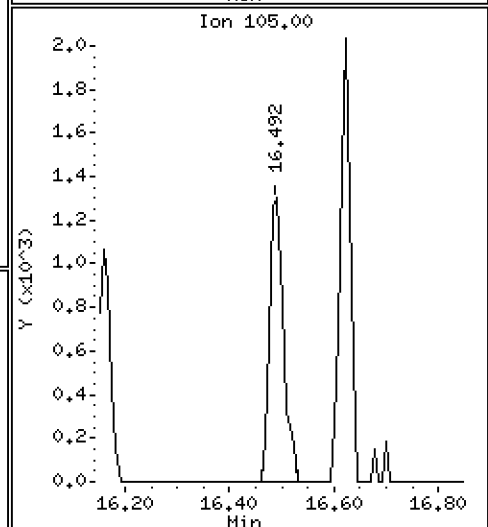
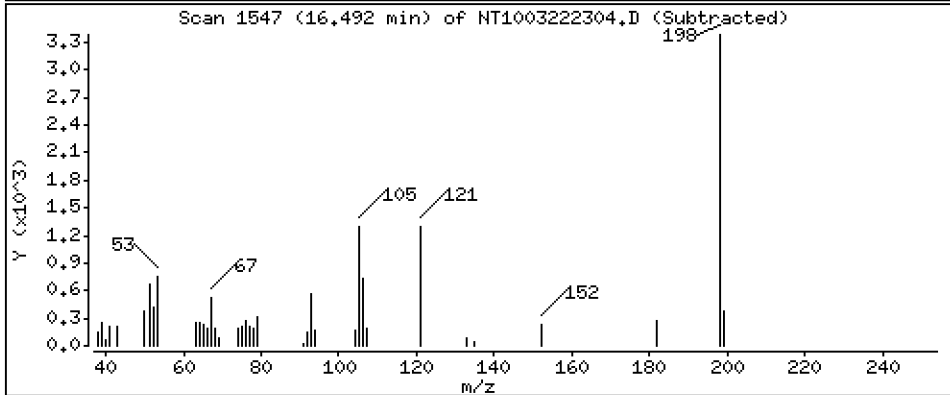
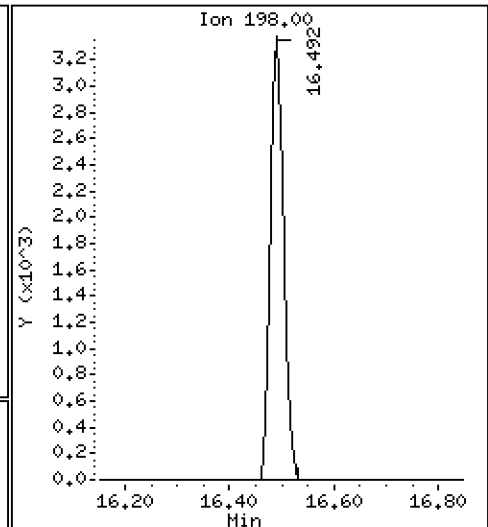
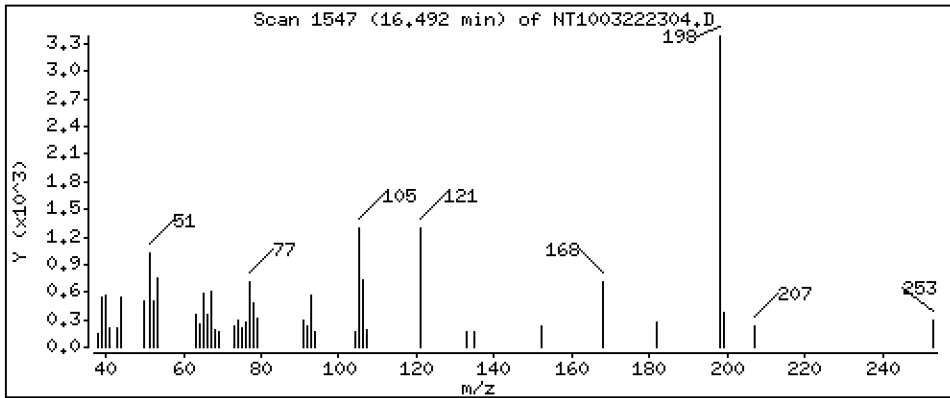
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,3731 ug/mL





Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

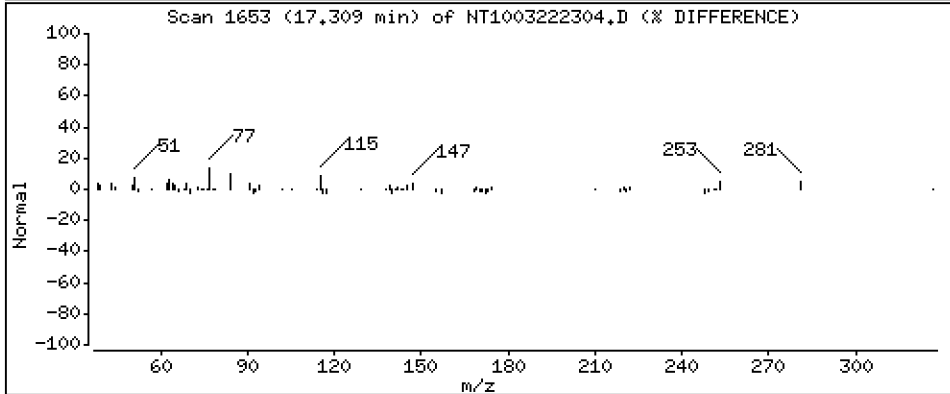
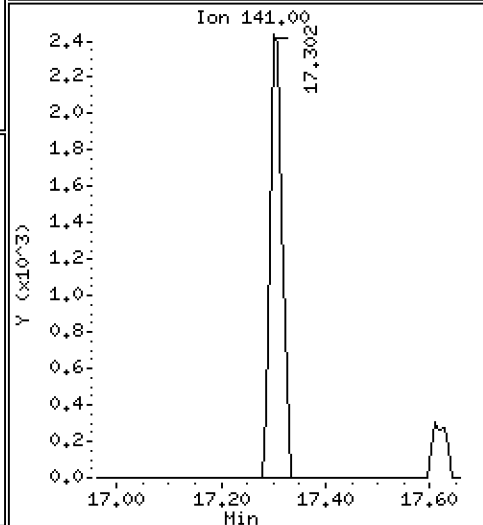
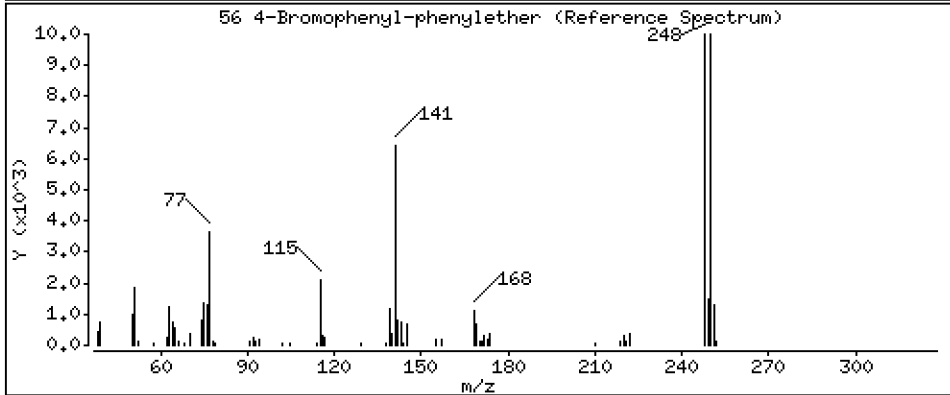
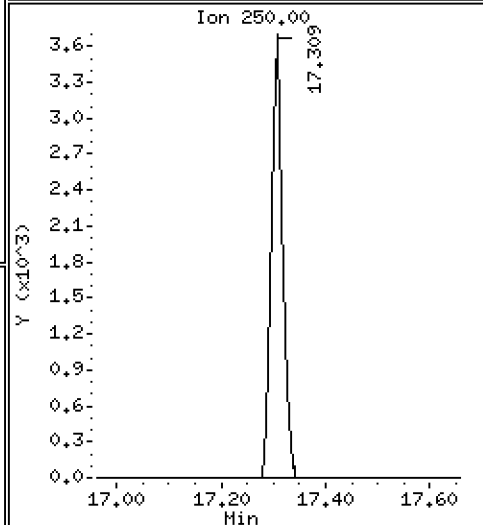
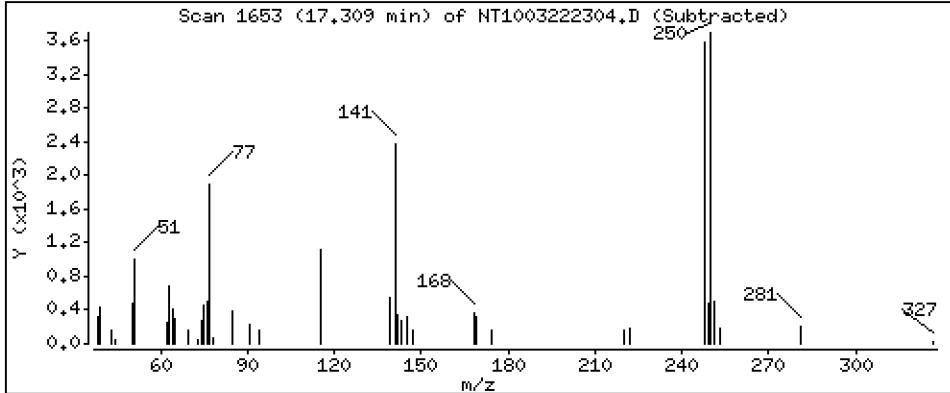
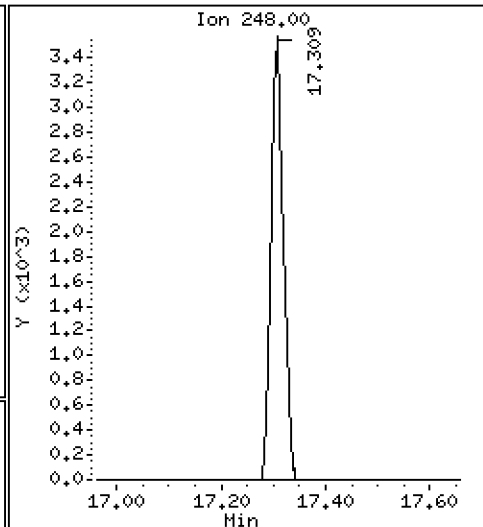
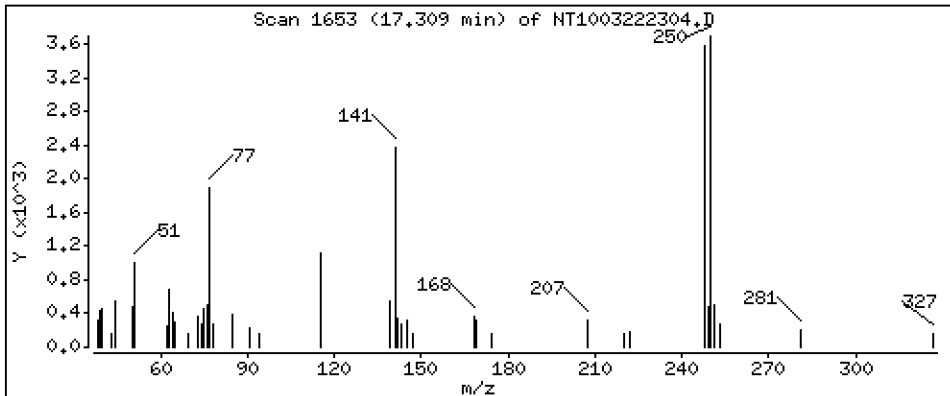
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,2055 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

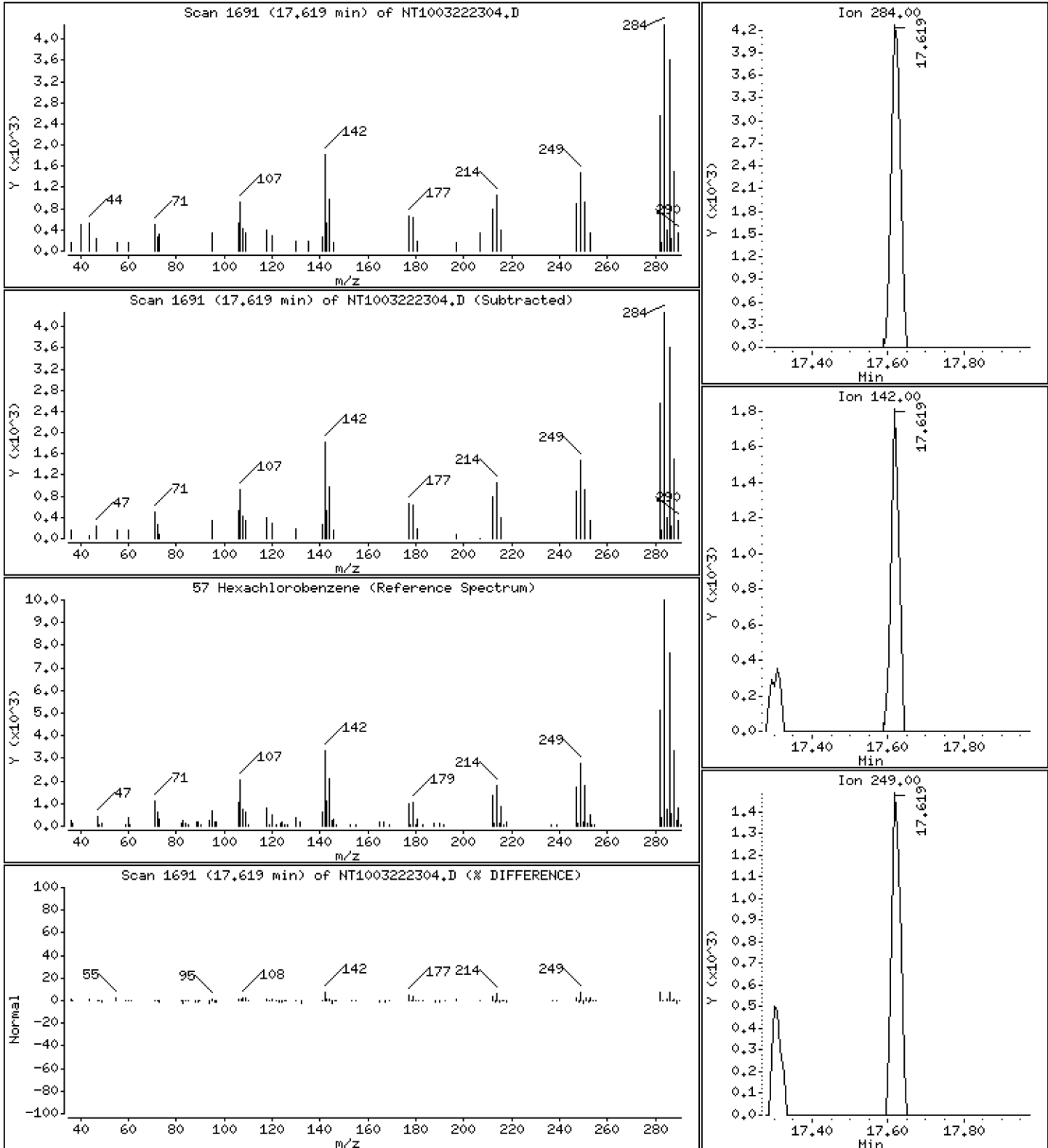
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,2361 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

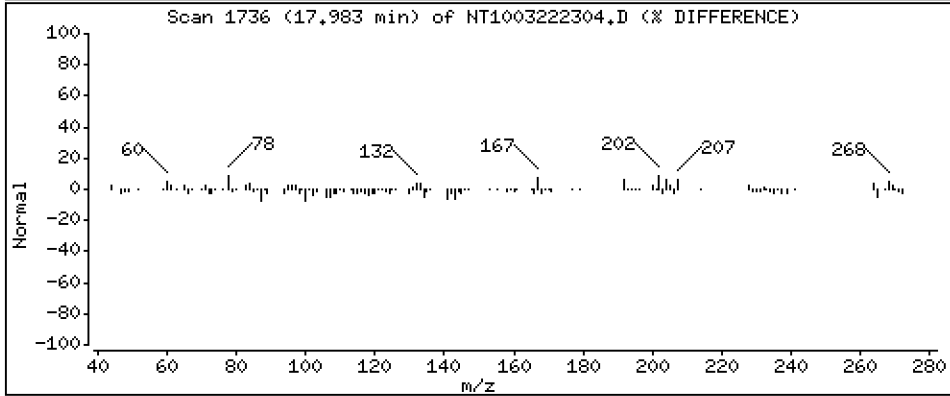
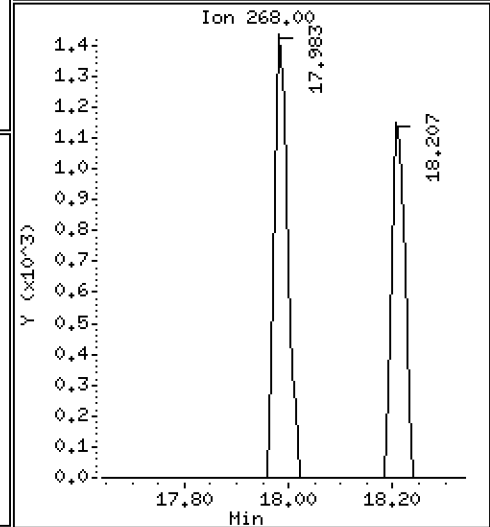
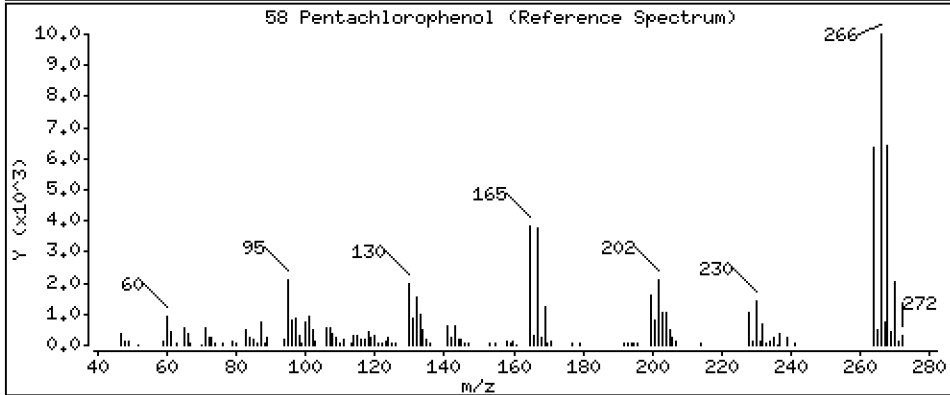
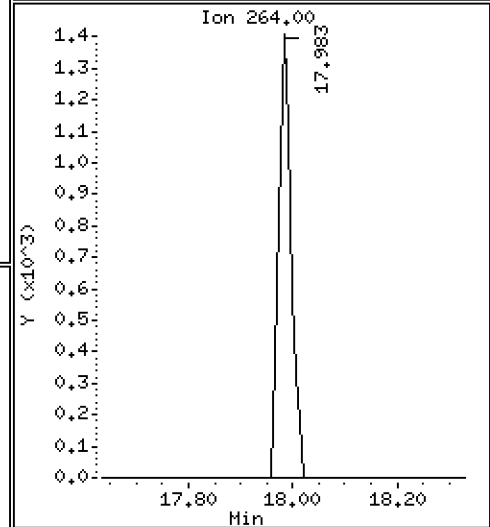
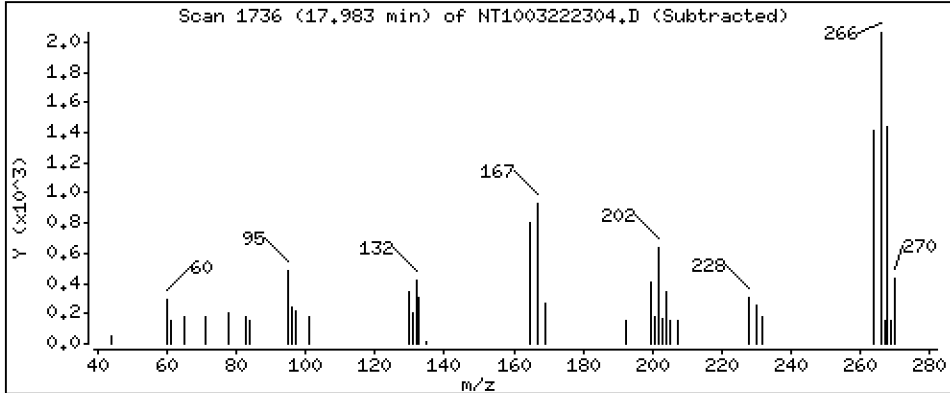
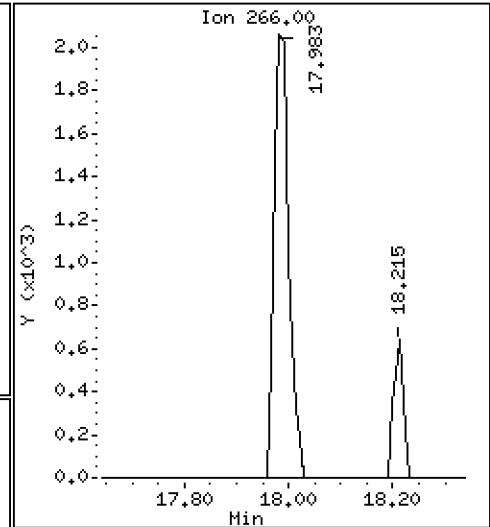
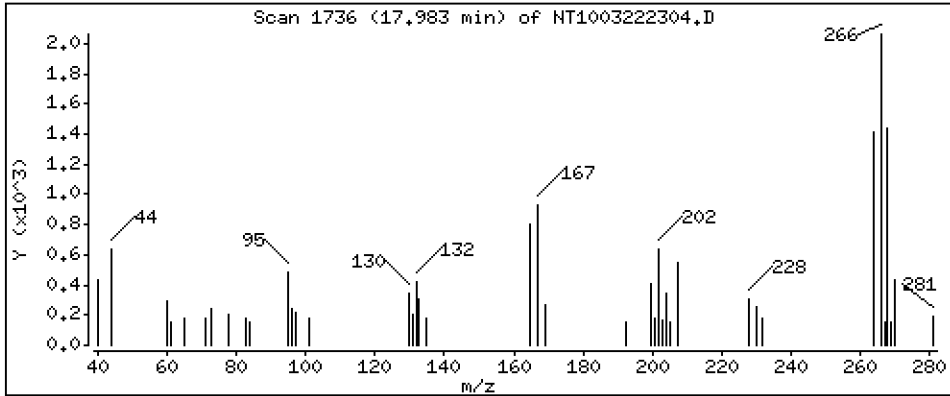
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,2209 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

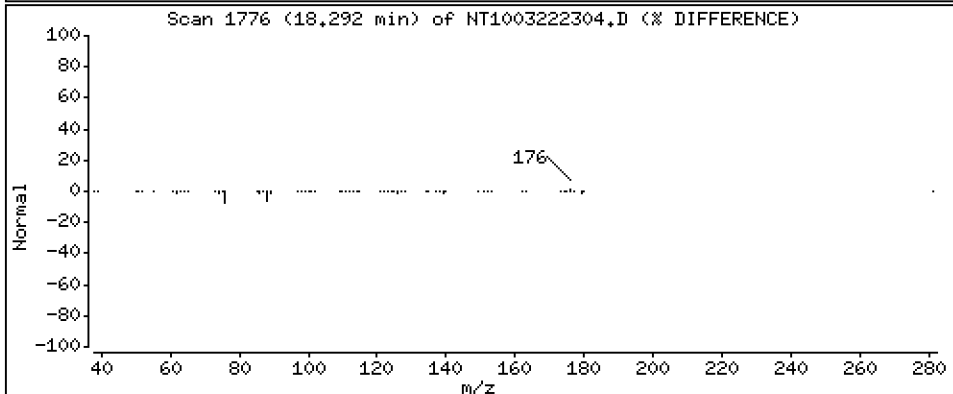
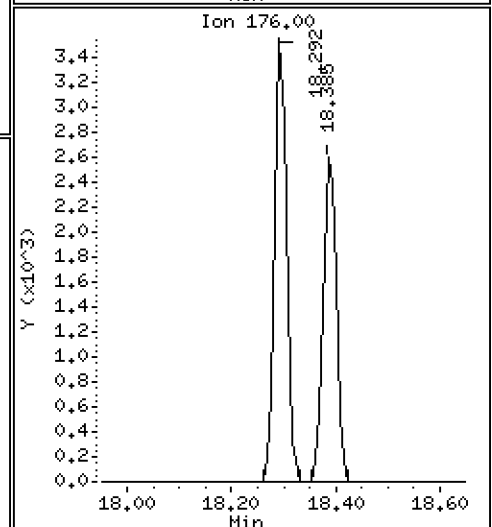
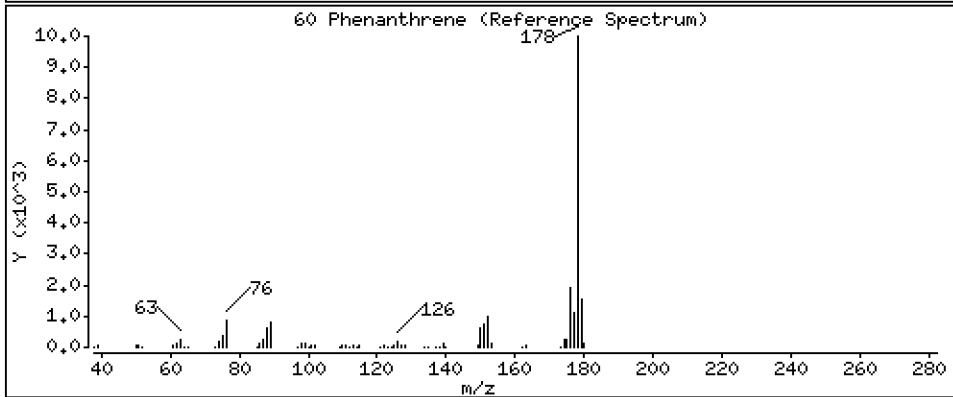
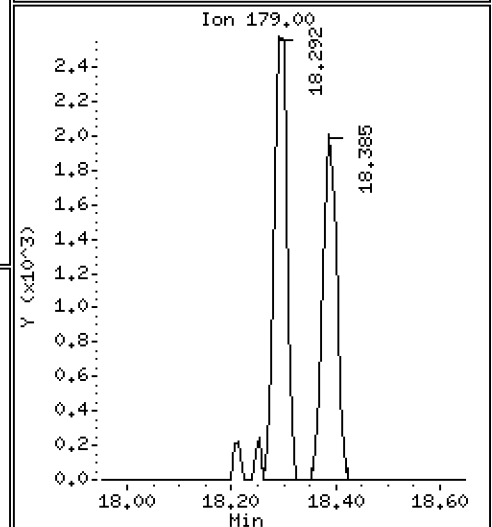
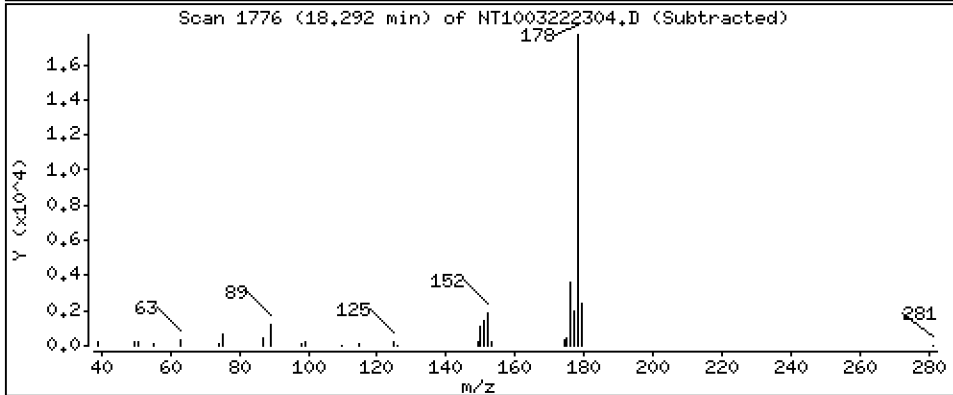
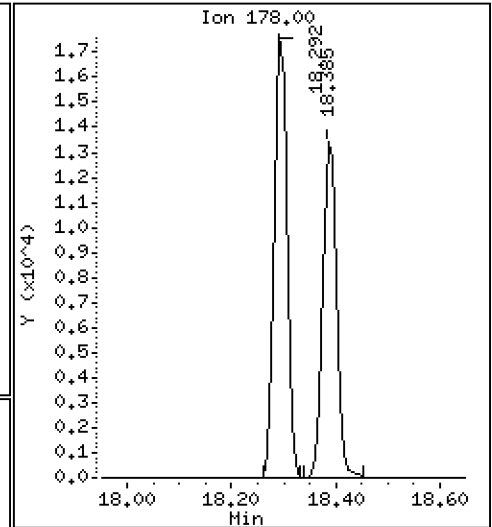
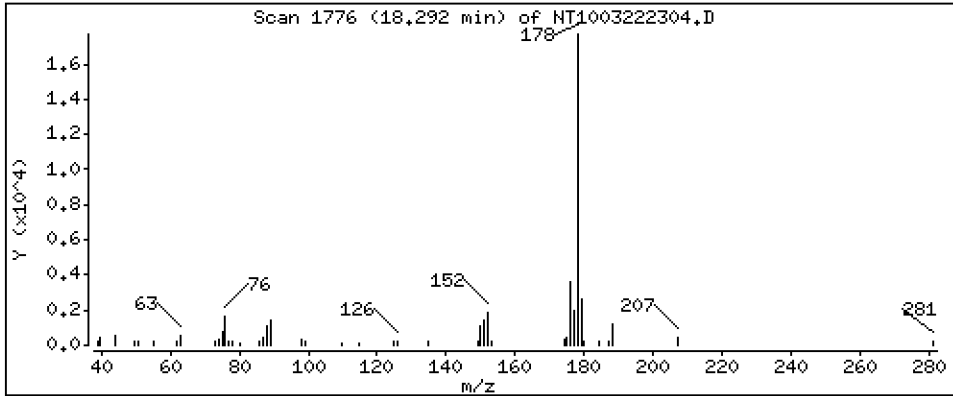
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 0.2068 ug/mL





Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

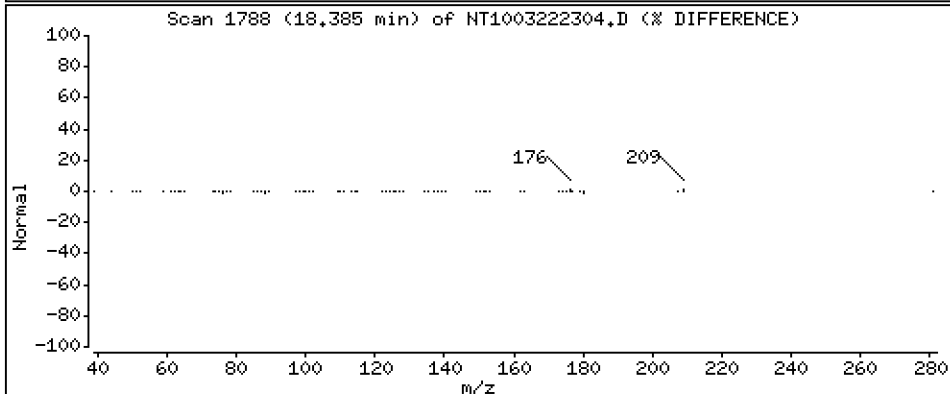
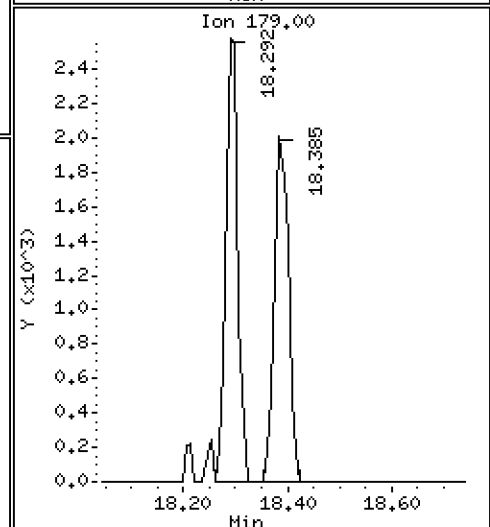
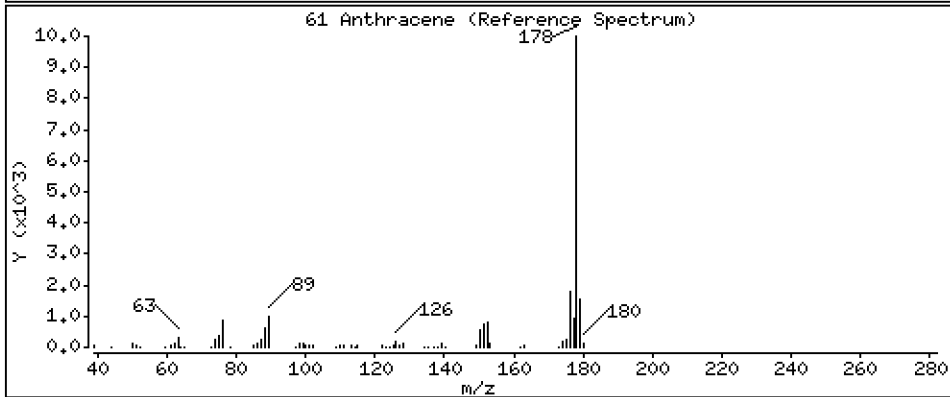
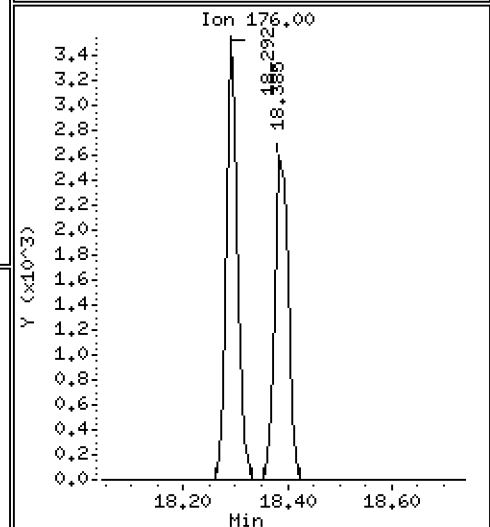
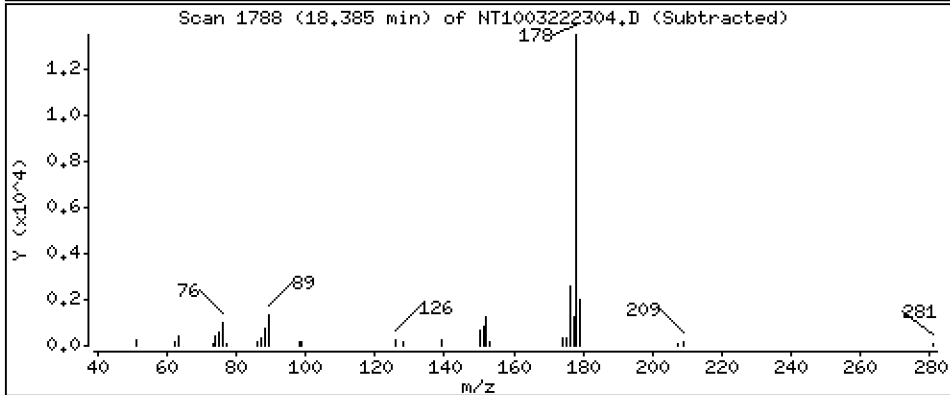
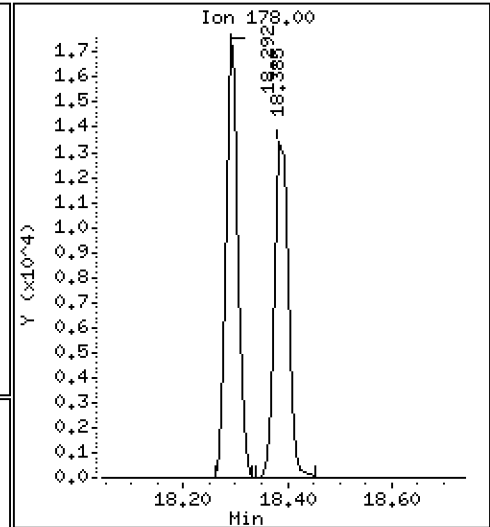
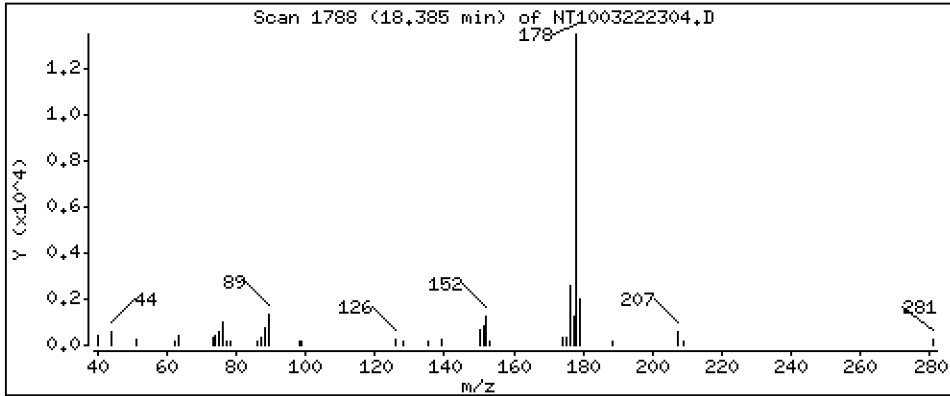
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,1820 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

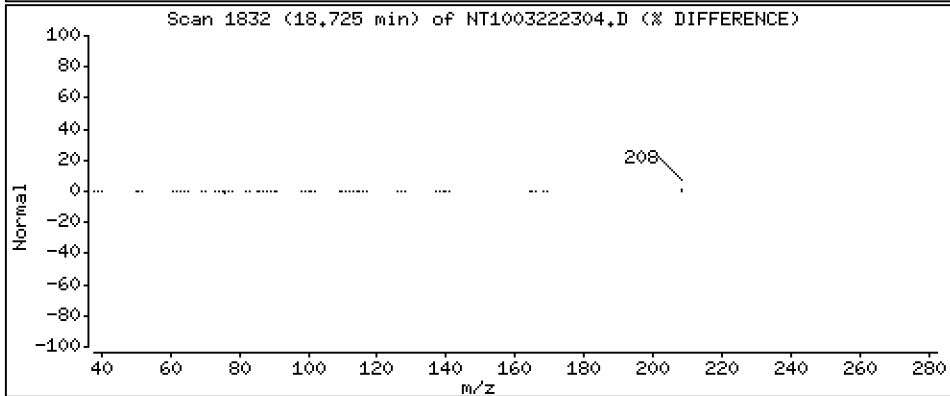
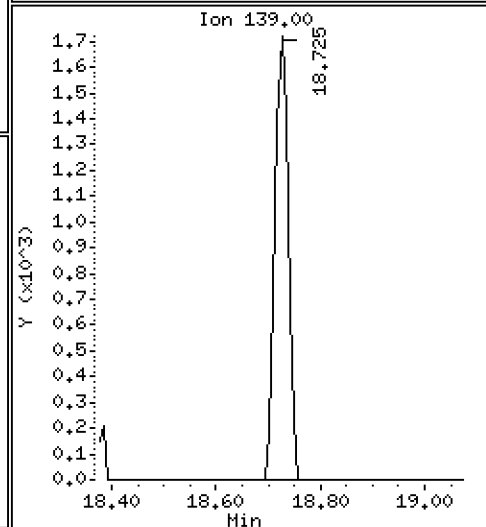
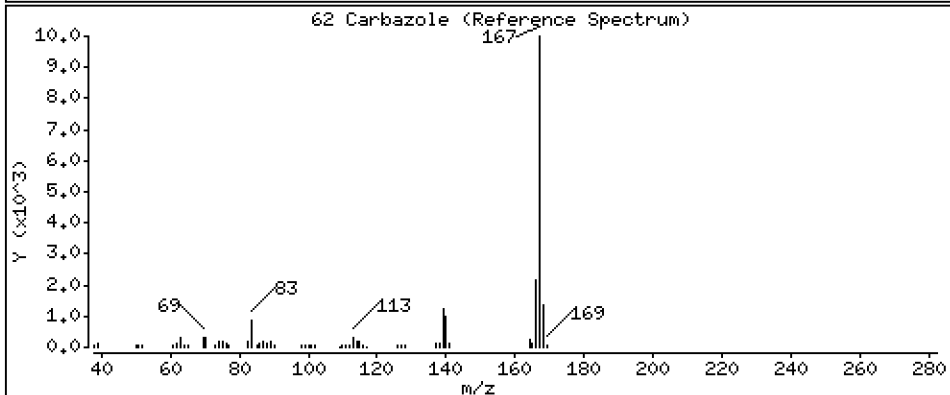
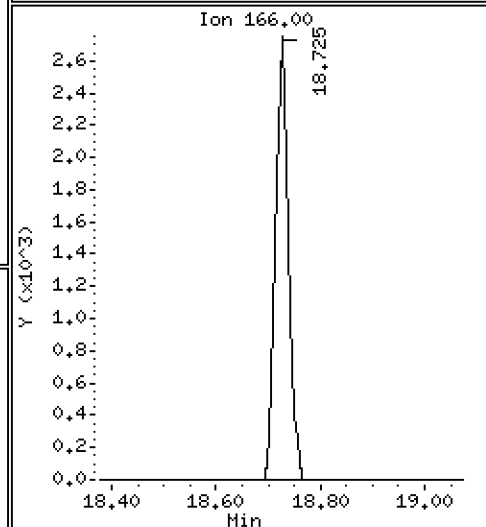
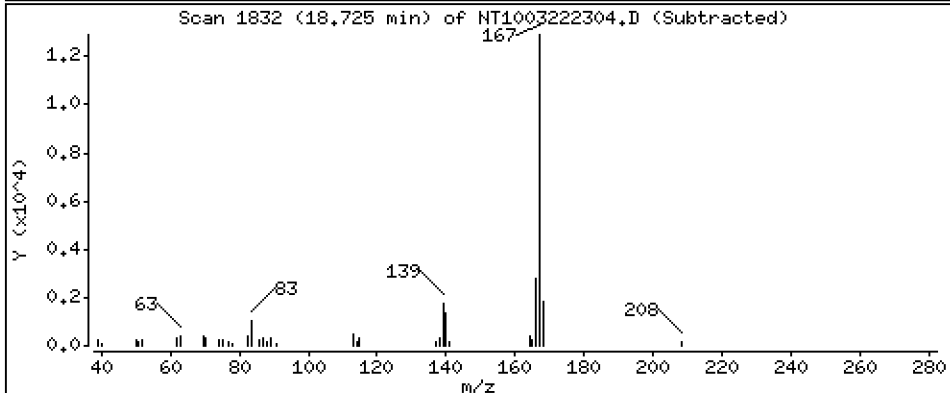
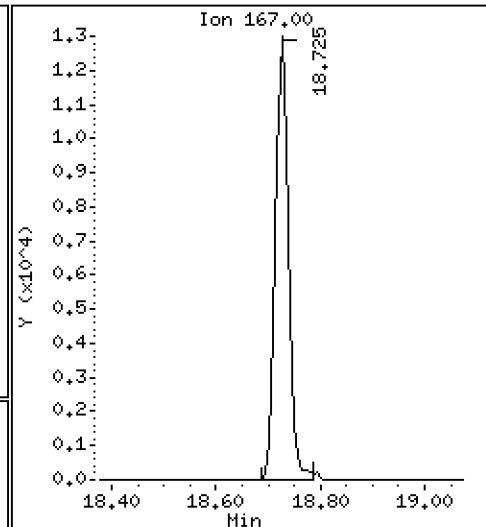
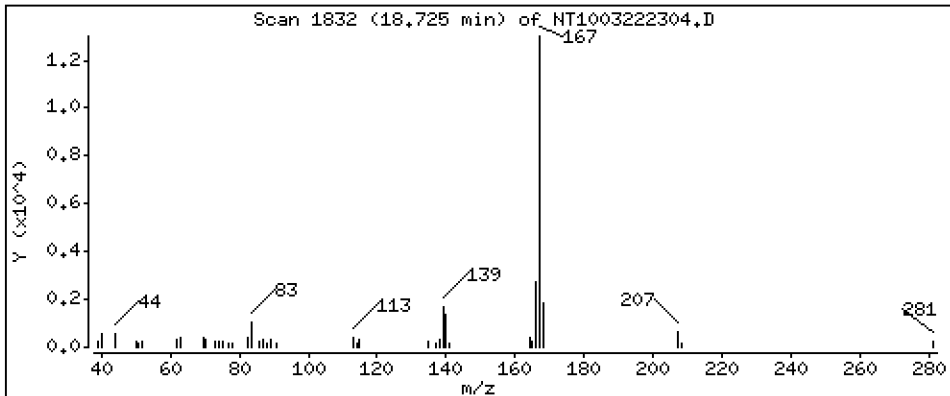
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1832 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

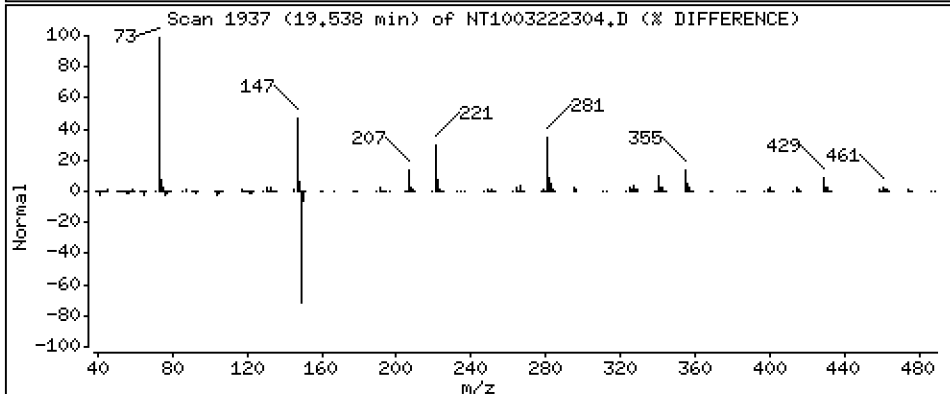
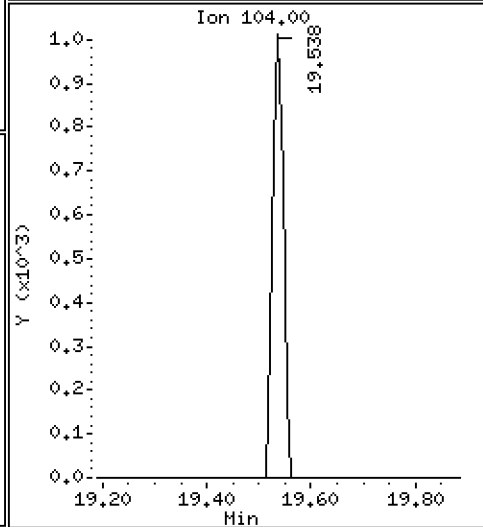
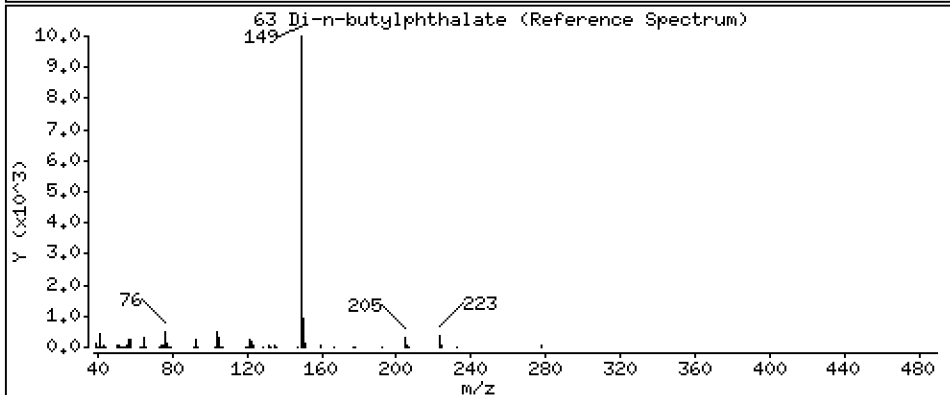
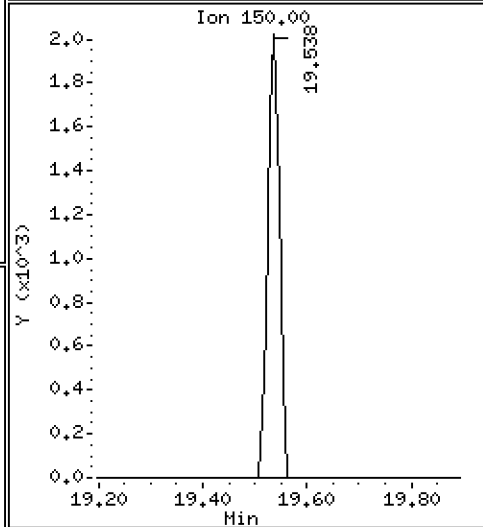
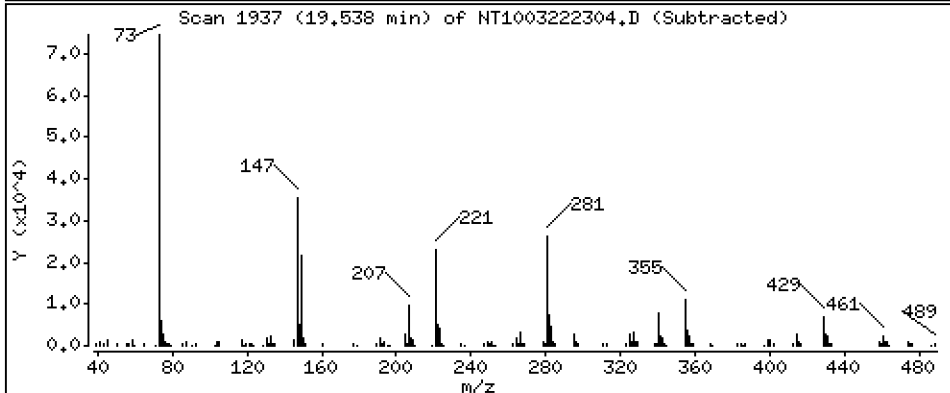
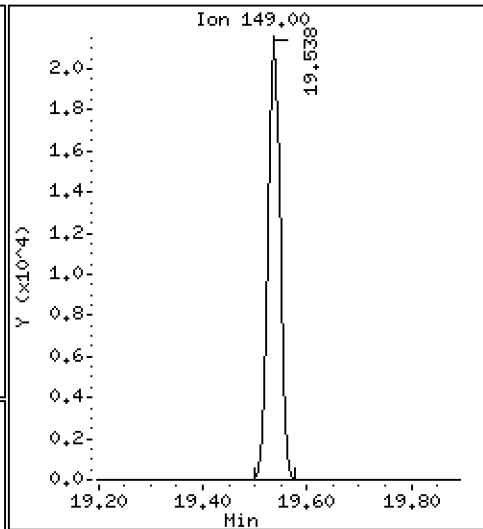
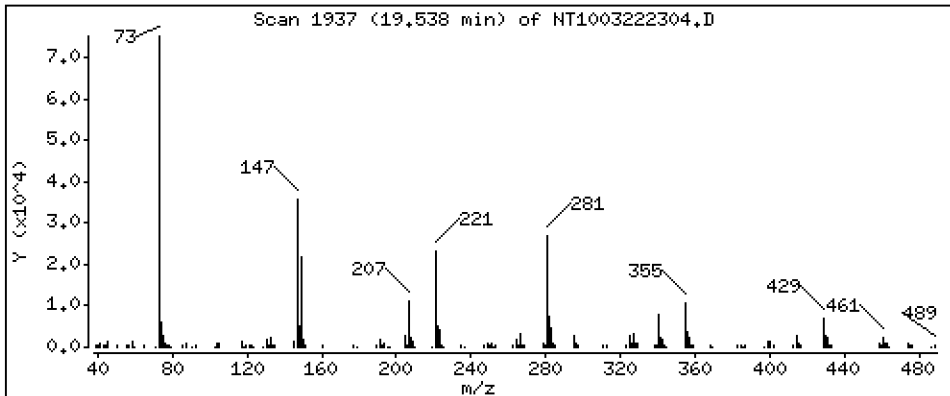
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,2065 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

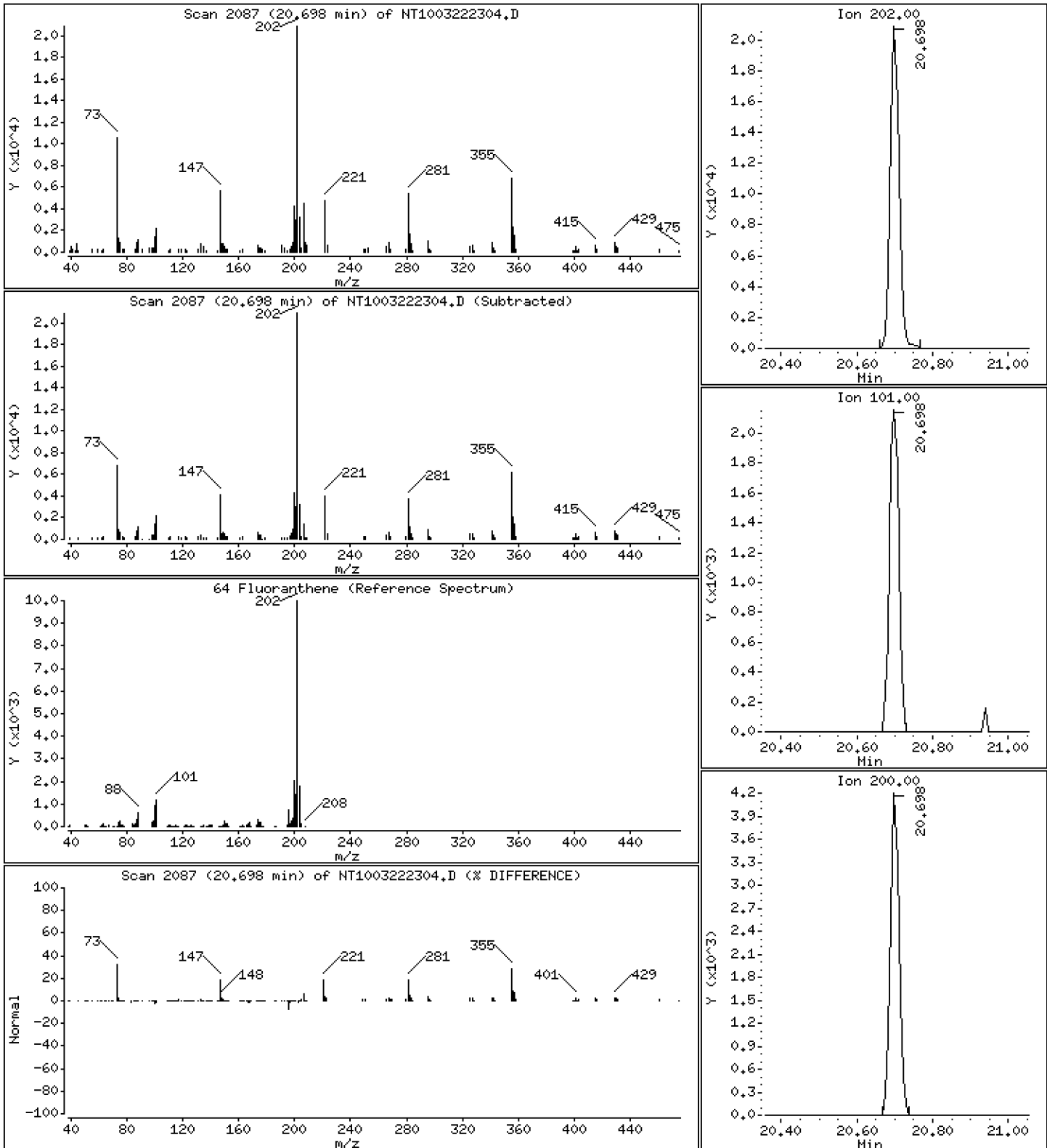
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,1833 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

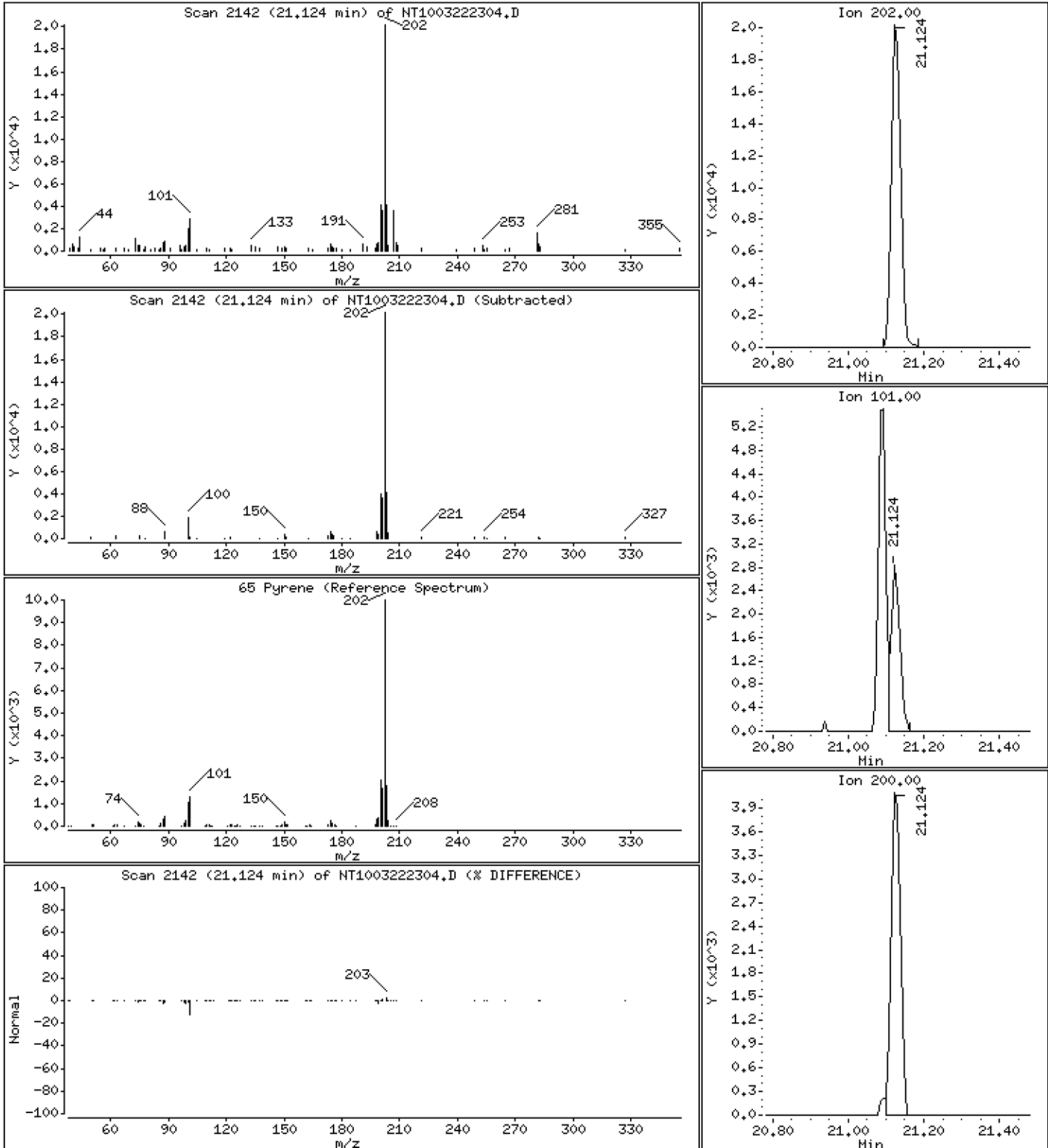
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,1830 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

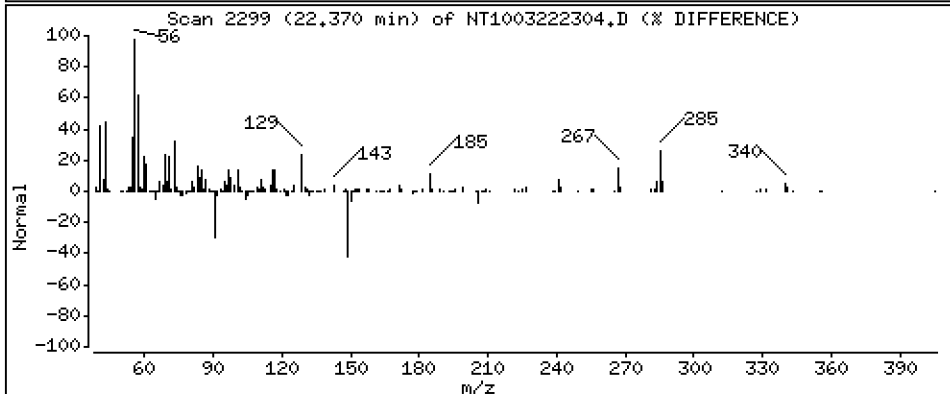
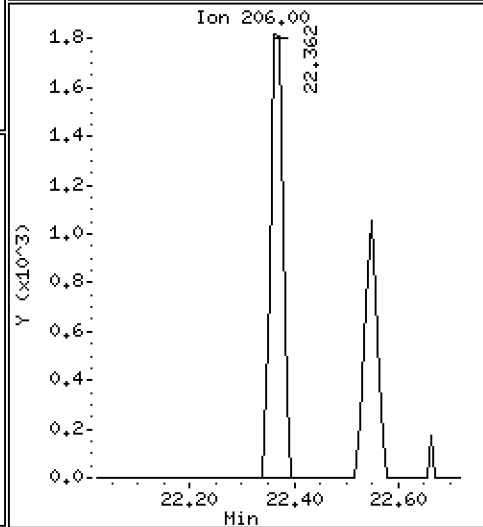
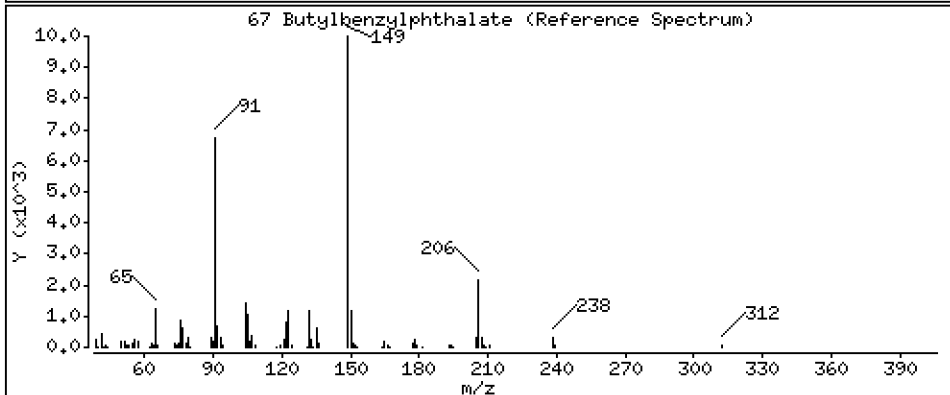
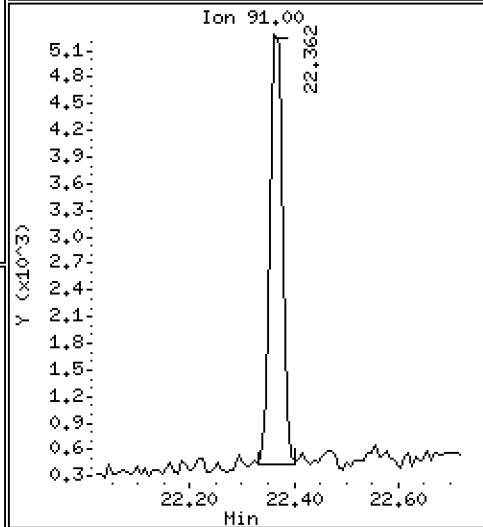
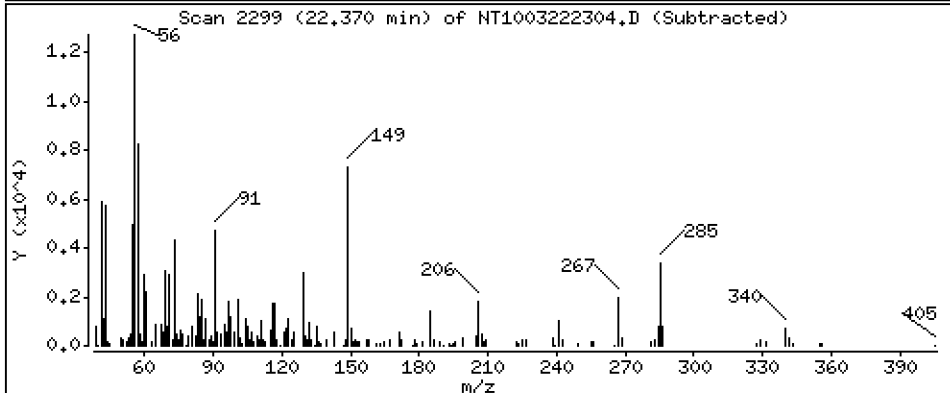
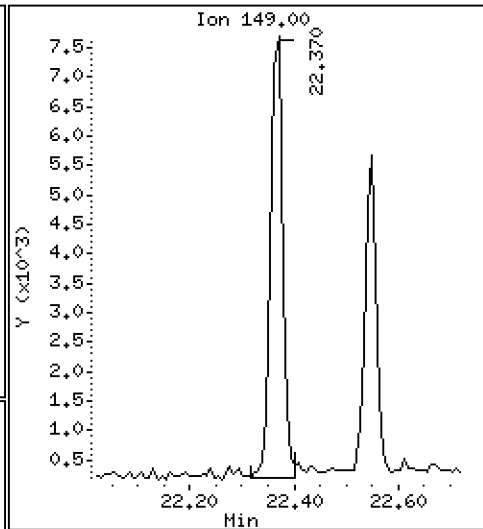
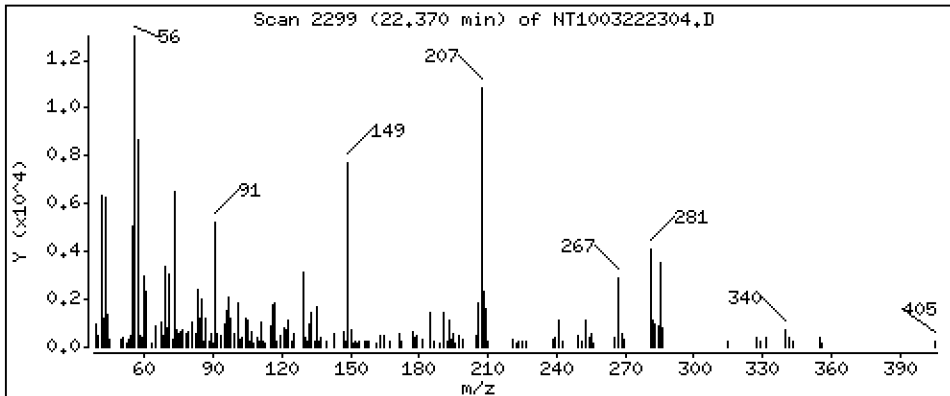
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,1836 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

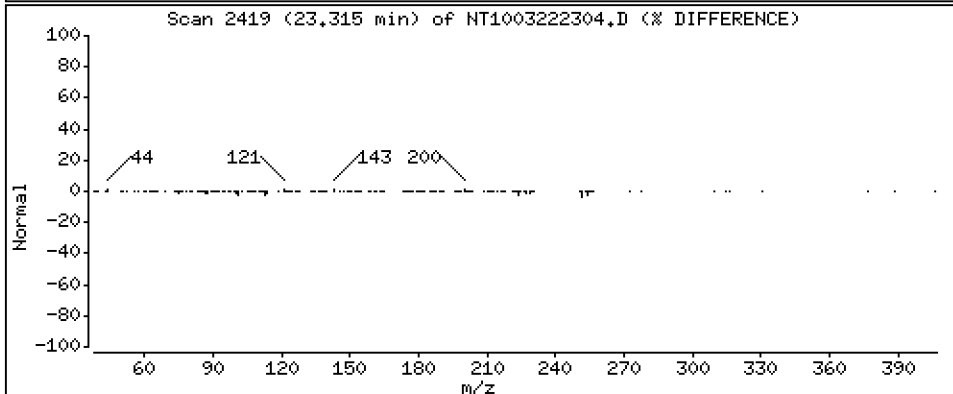
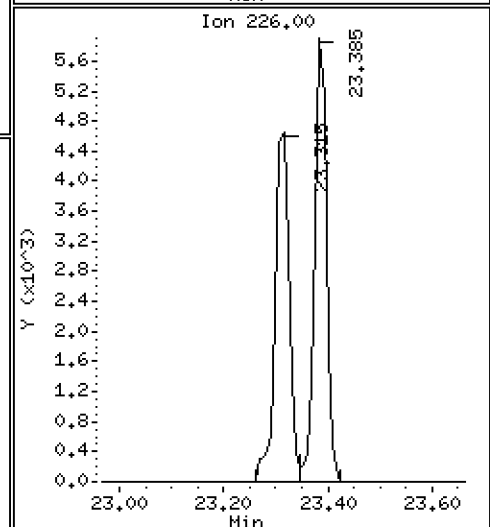
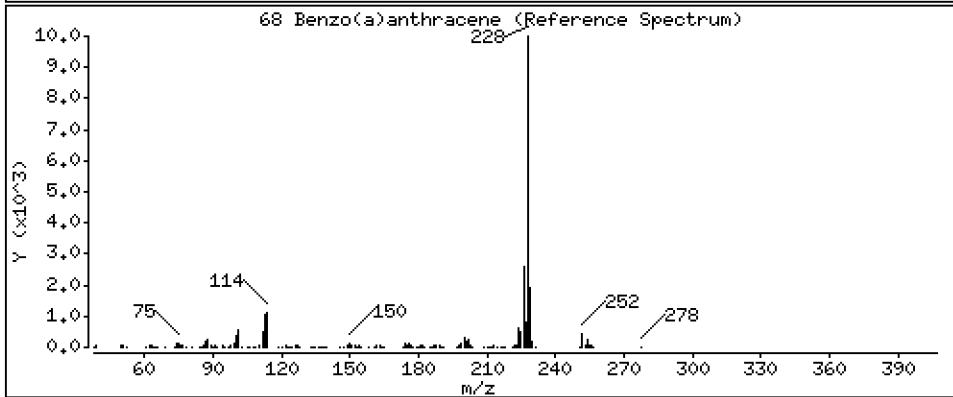
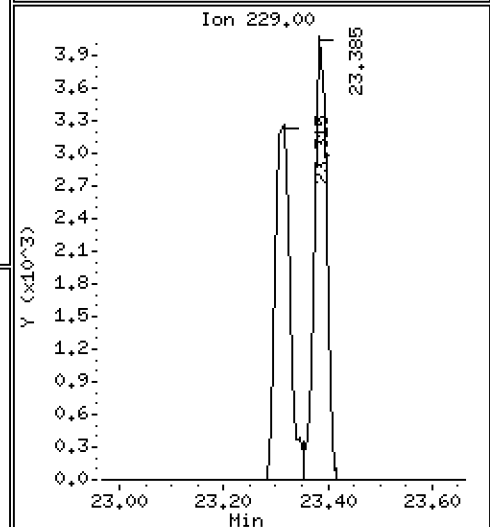
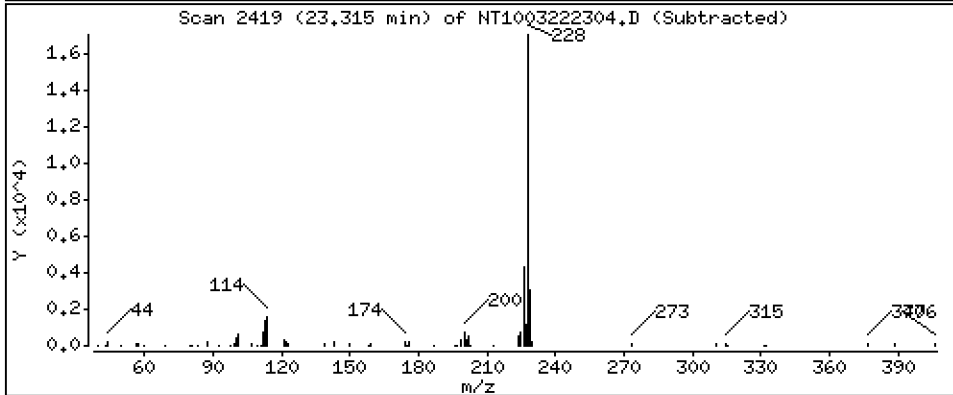
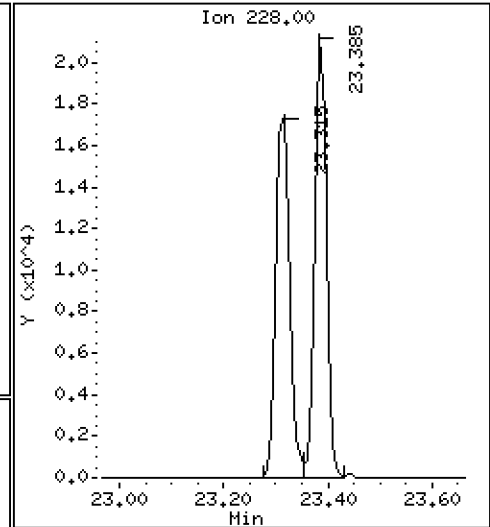
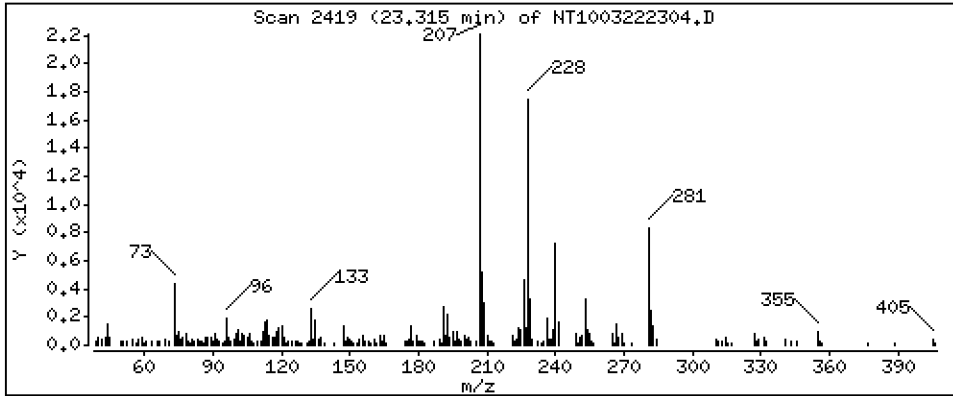
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2005 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

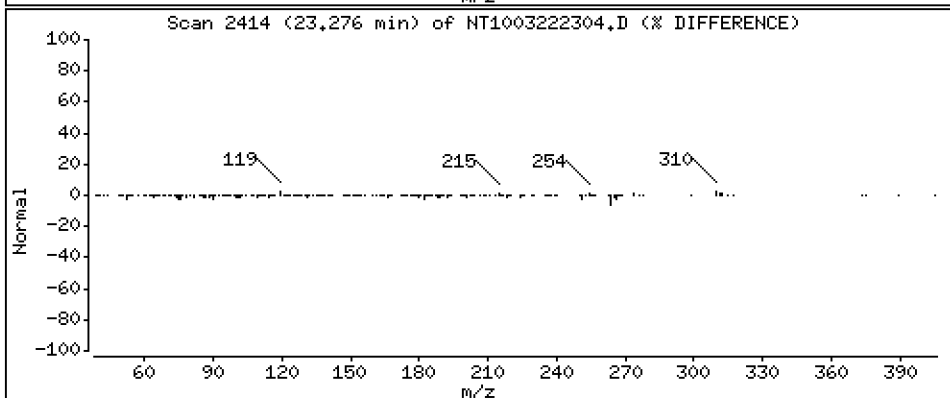
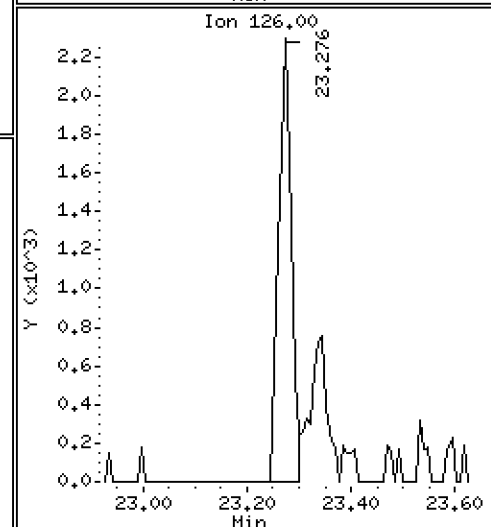
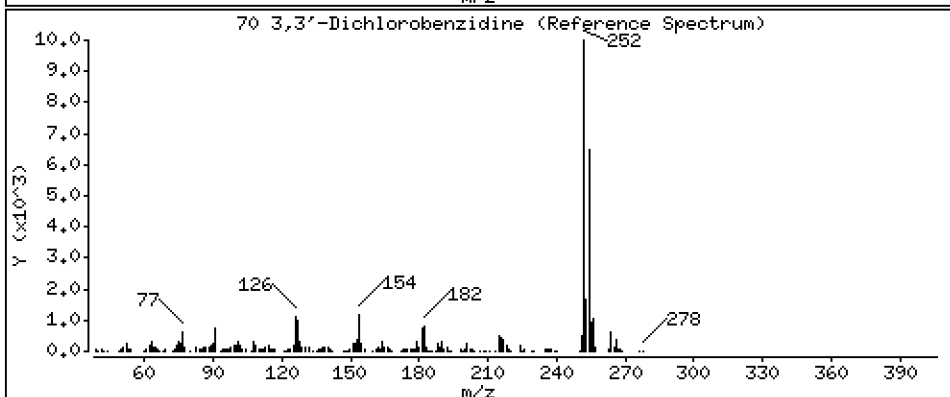
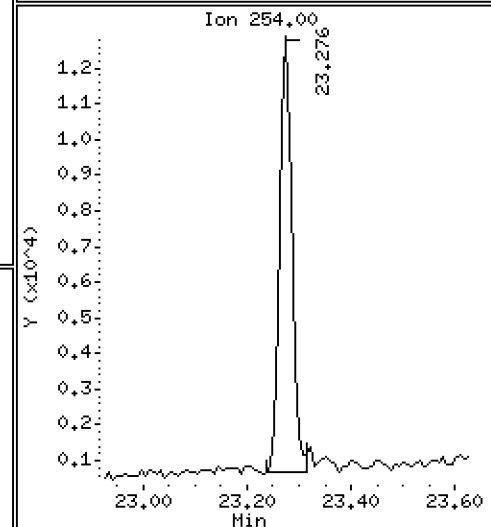
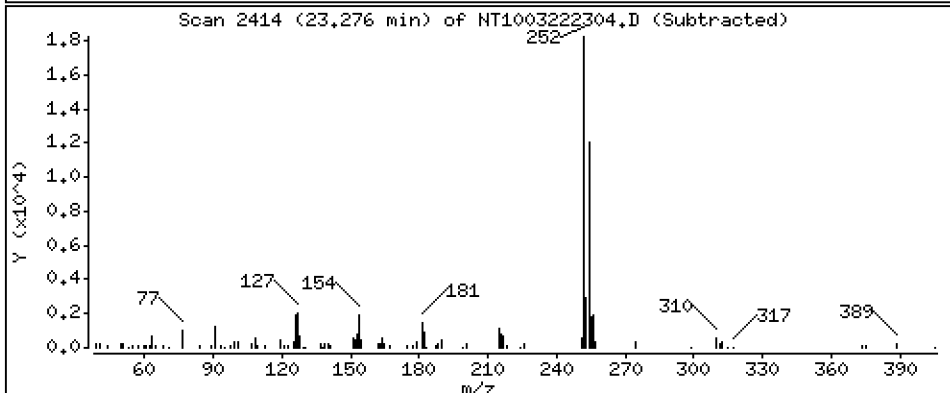
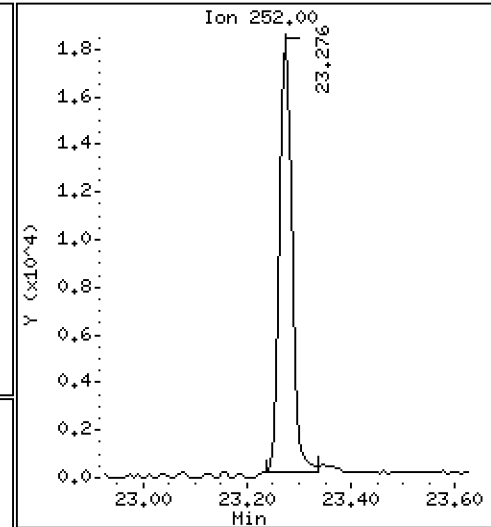
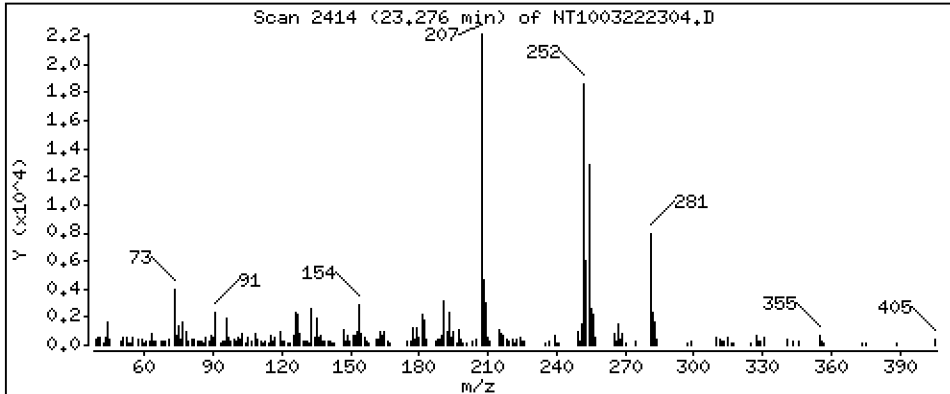
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,5900 ug/mL





Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

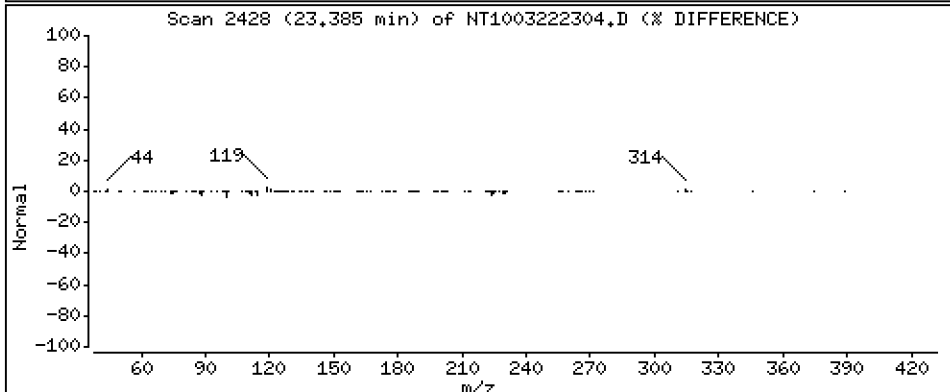
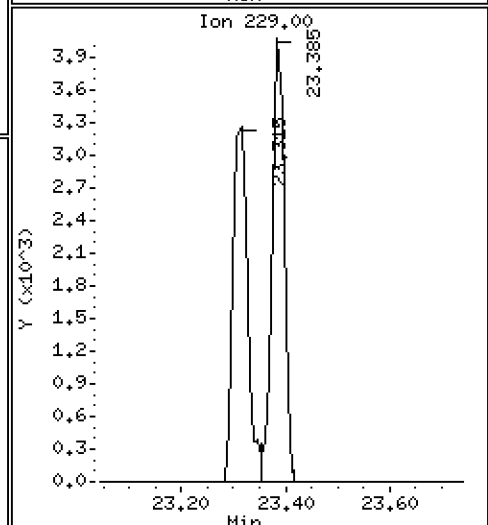
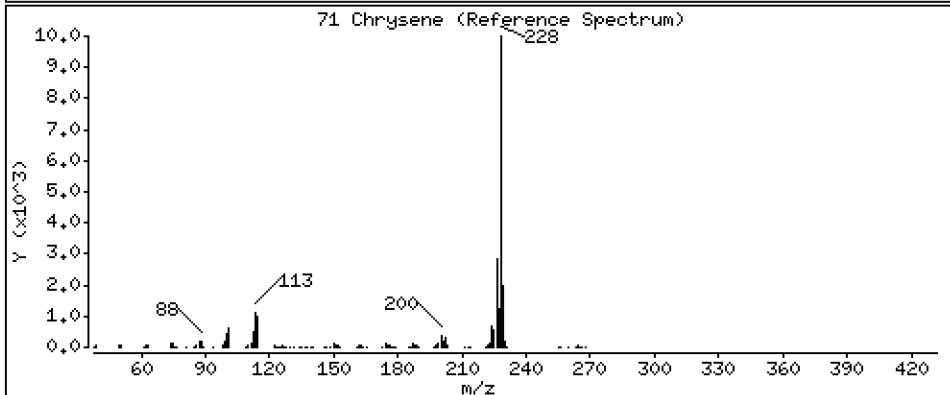
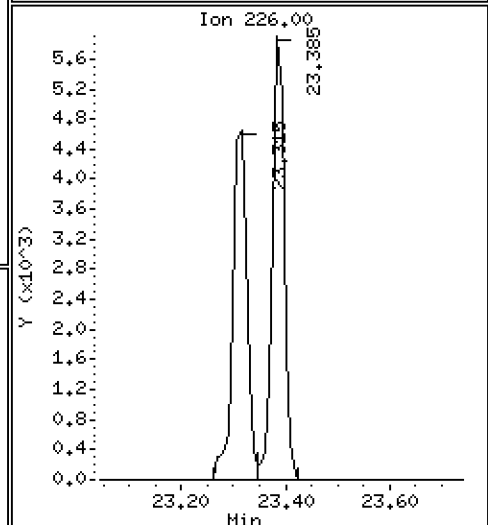
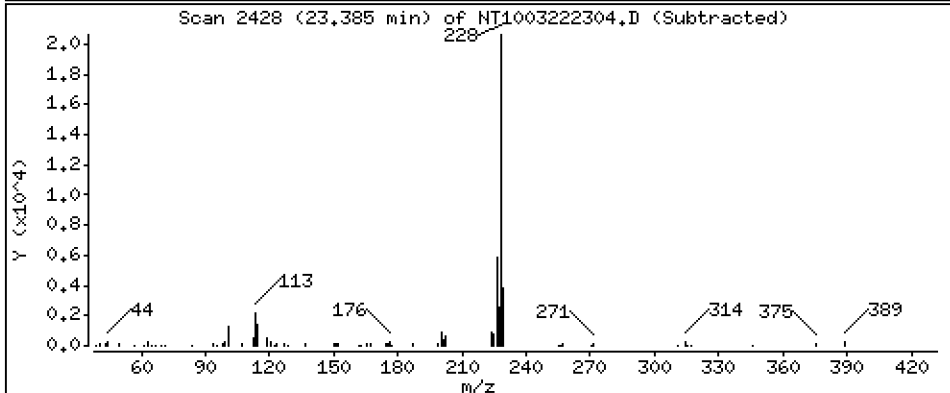
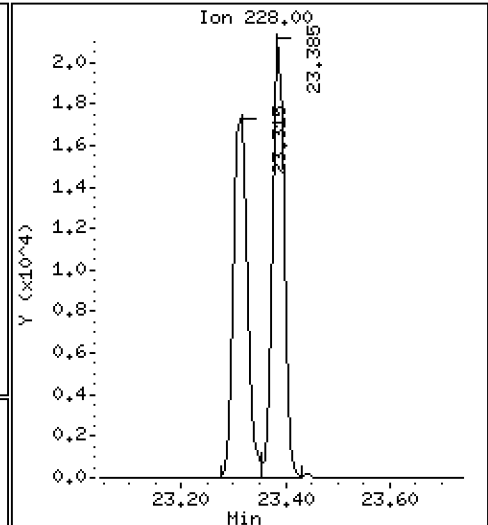
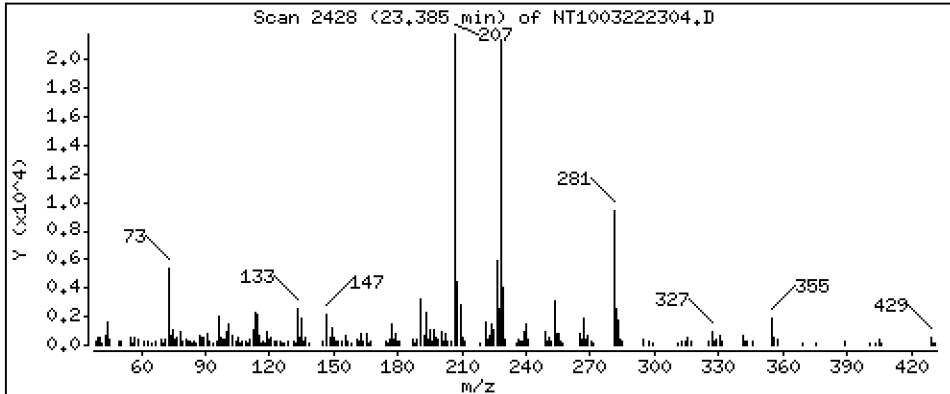
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2053 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

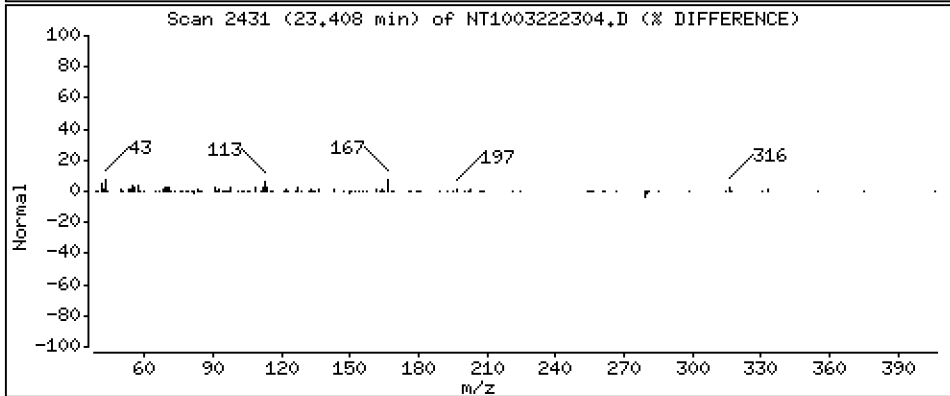
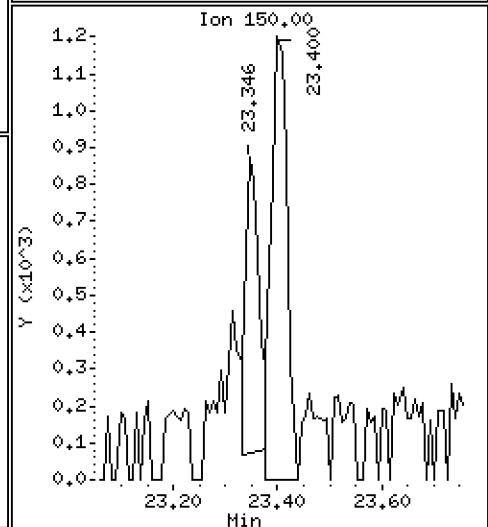
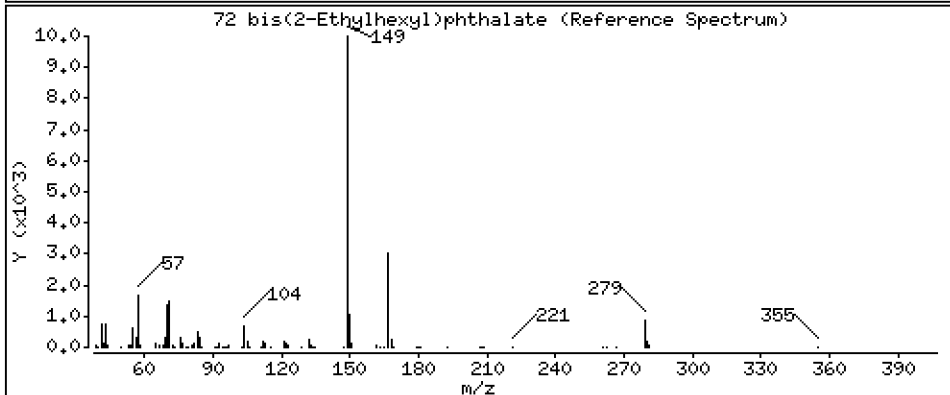
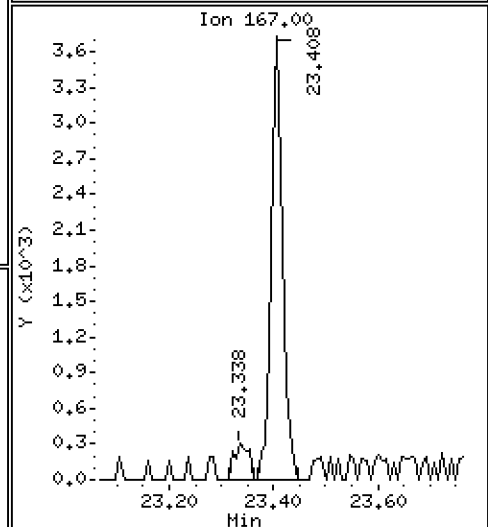
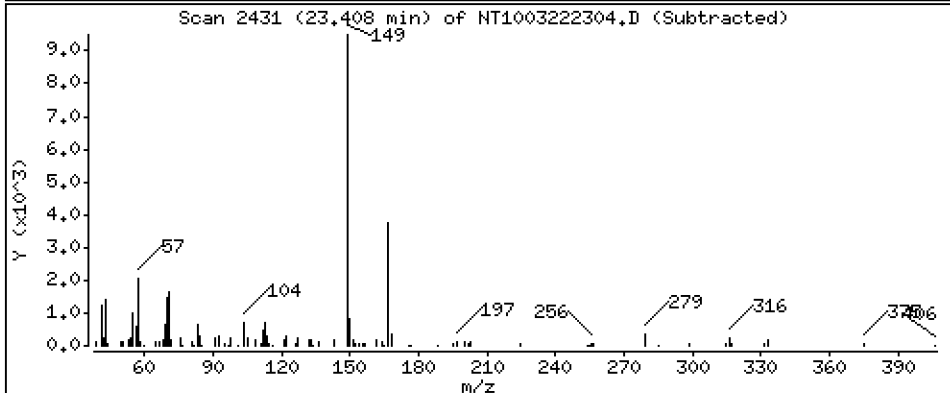
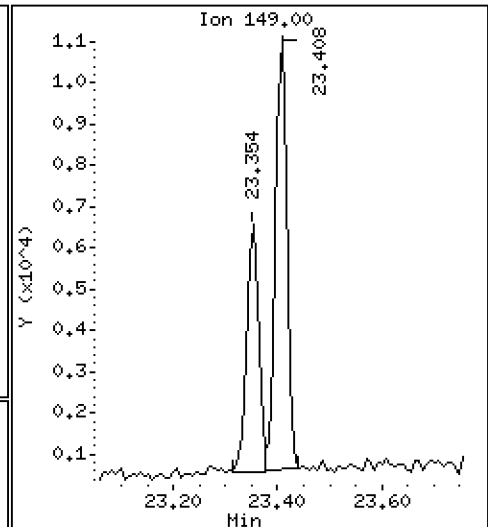
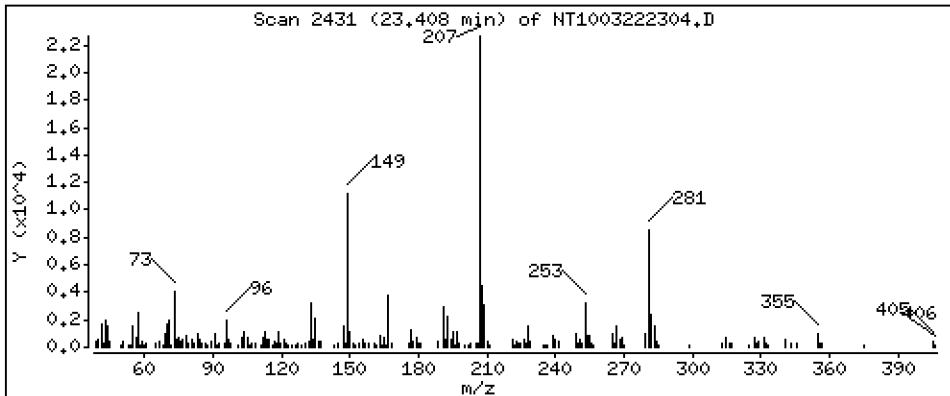
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,1653 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

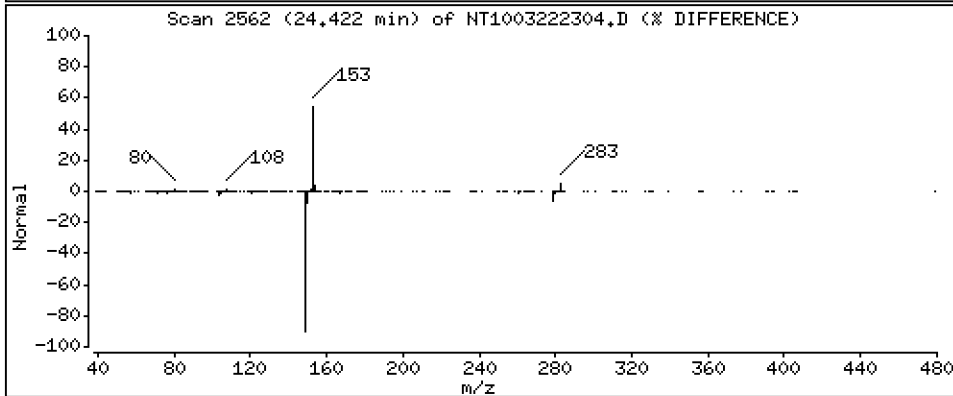
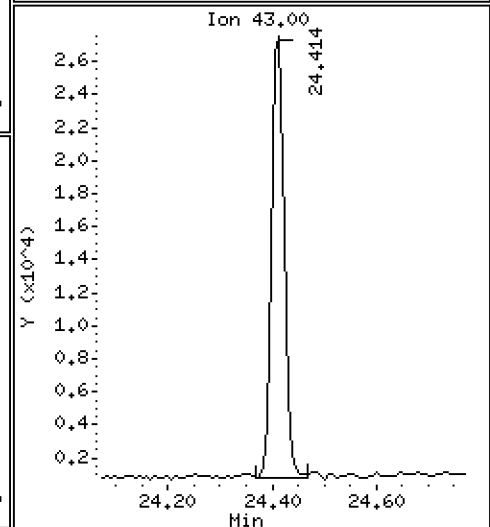
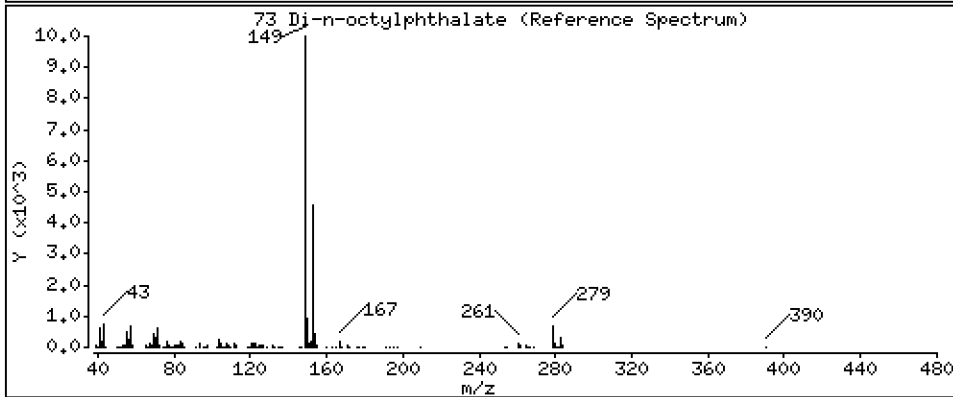
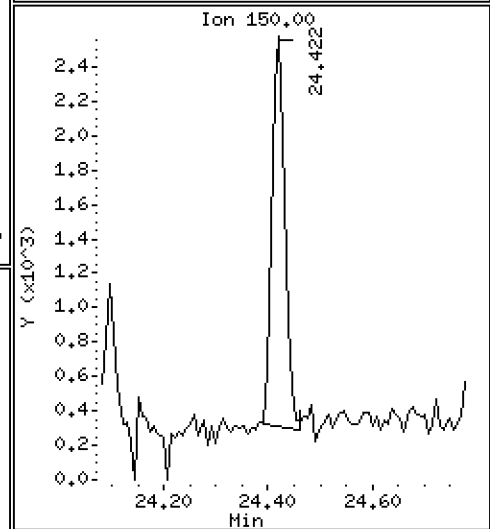
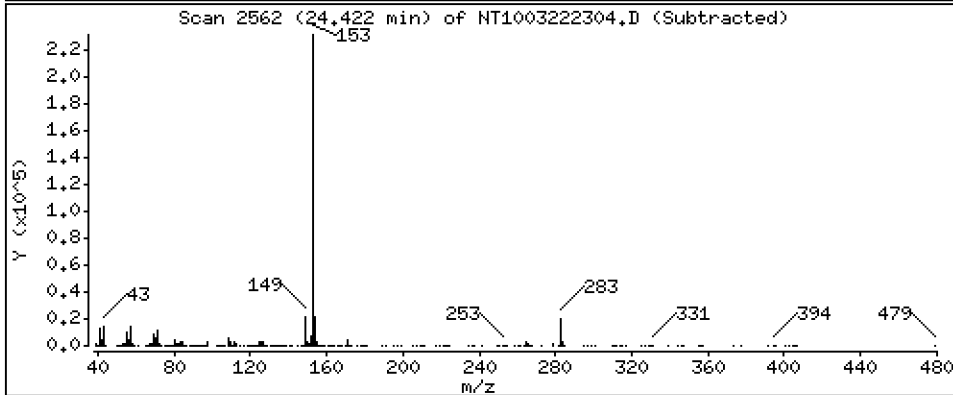
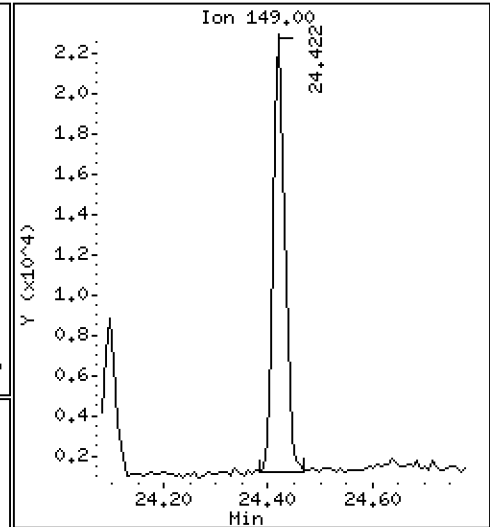
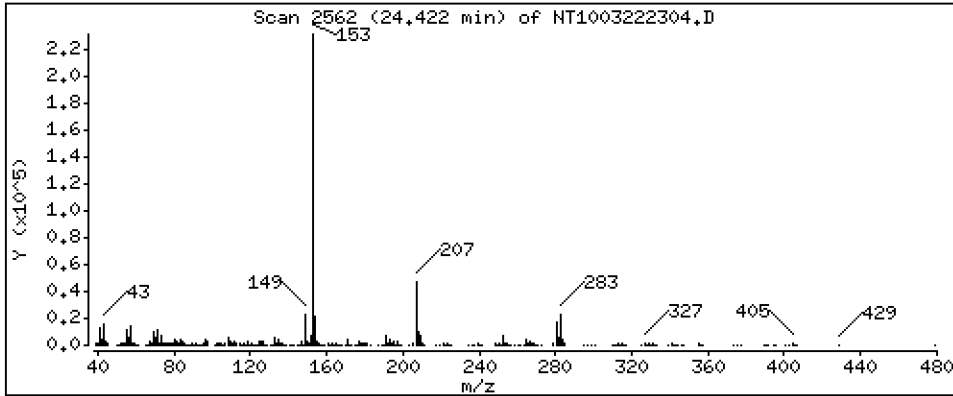
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2061 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

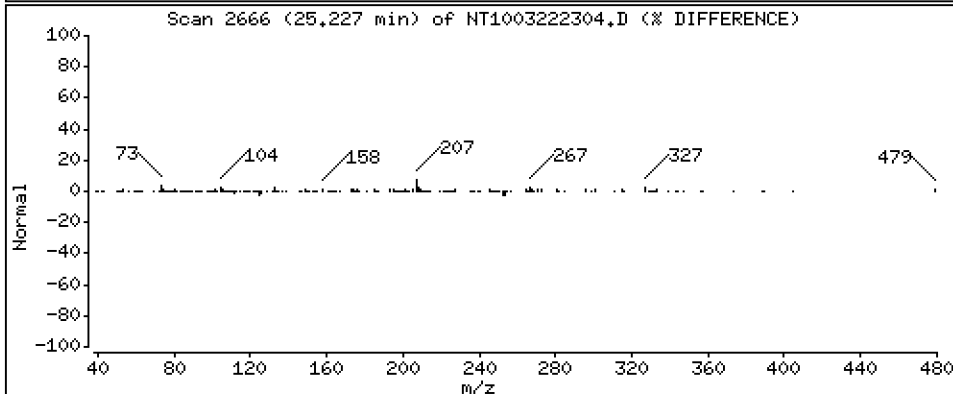
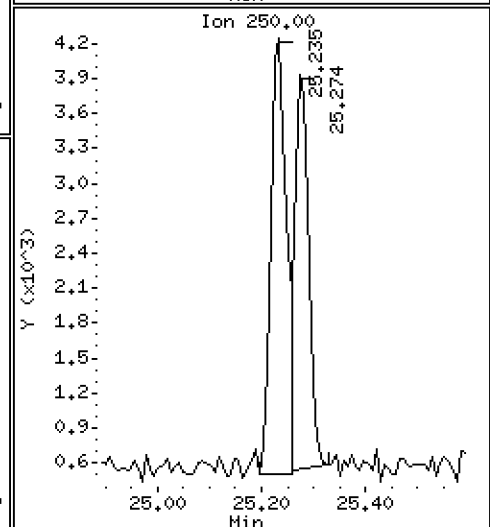
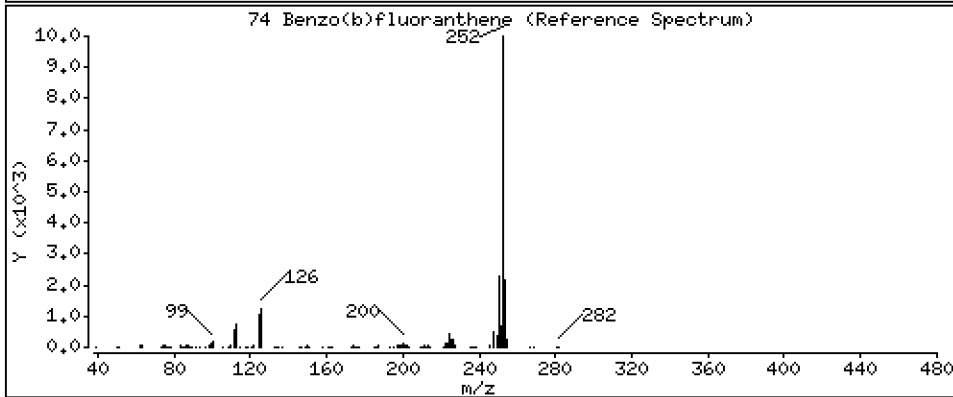
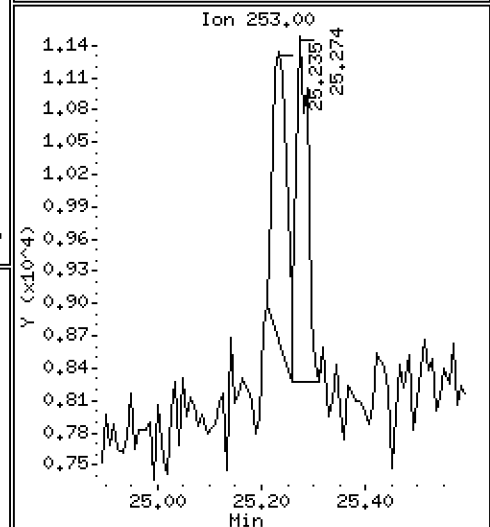
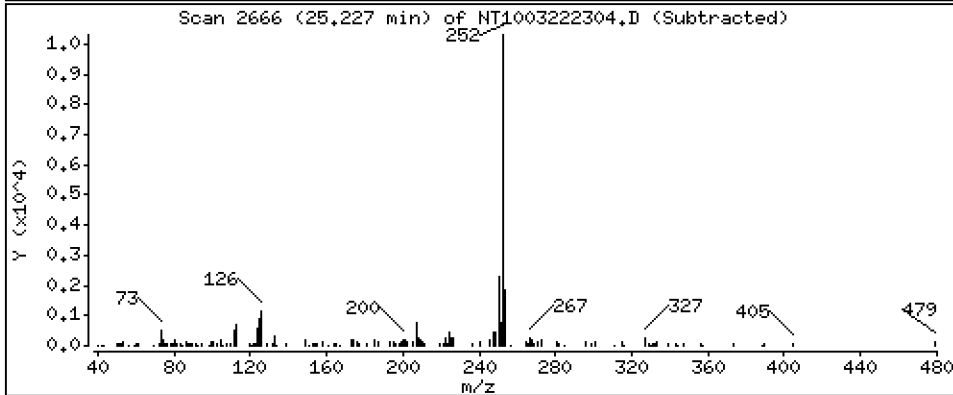
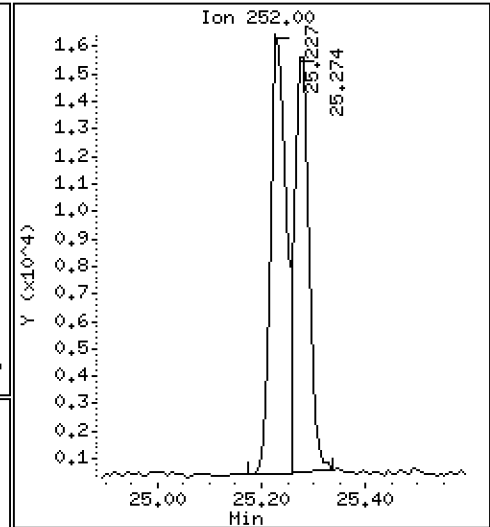
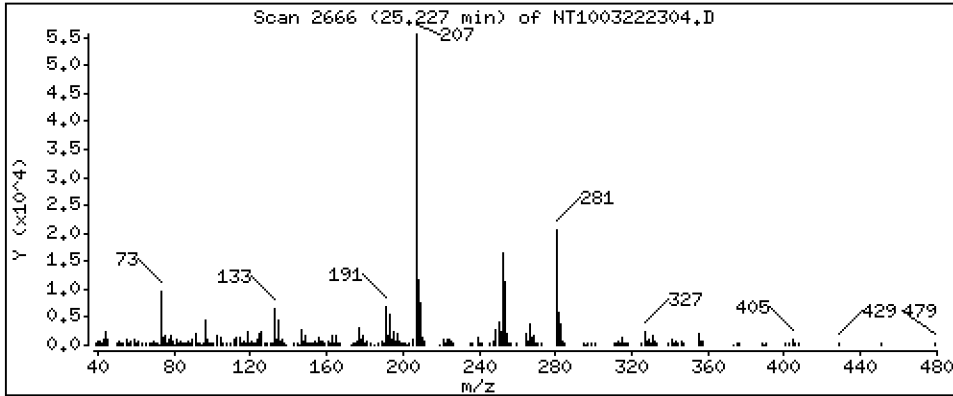
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,2162 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

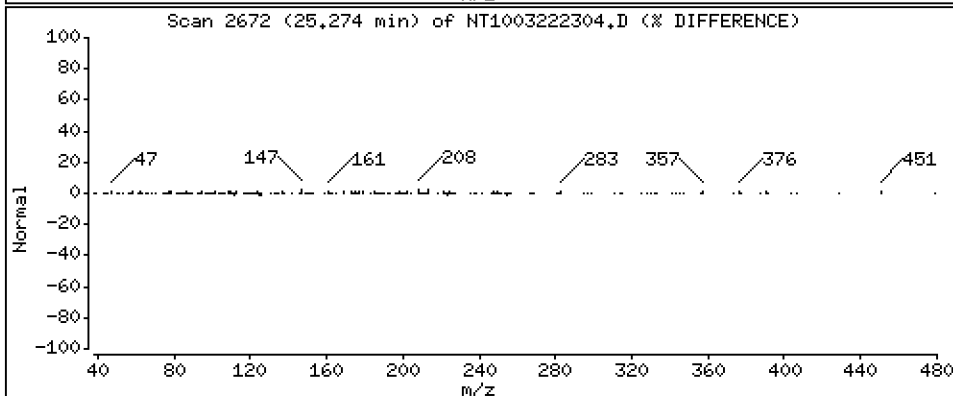
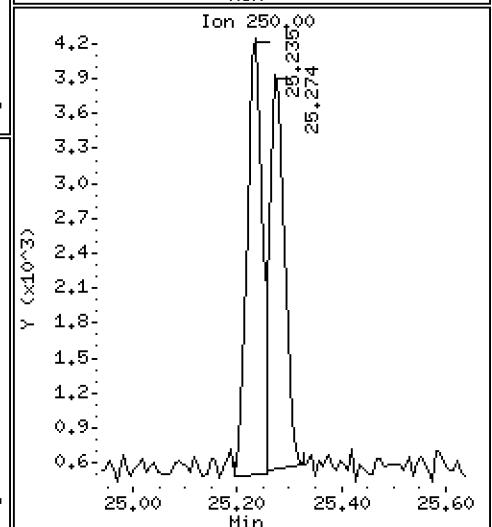
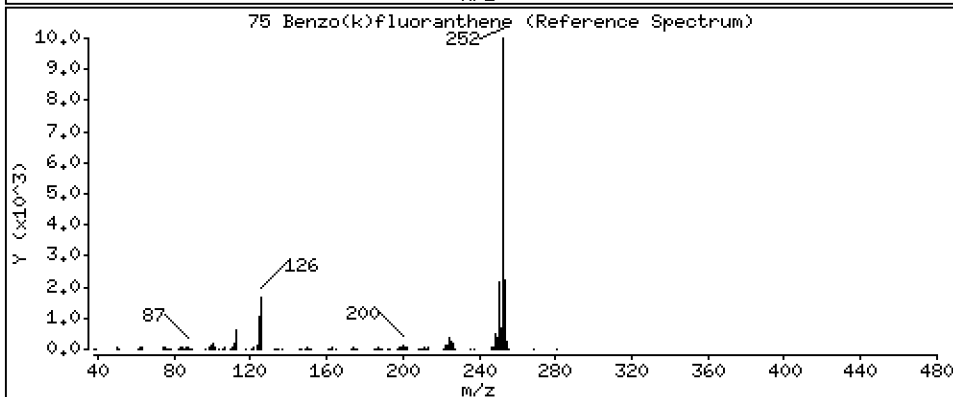
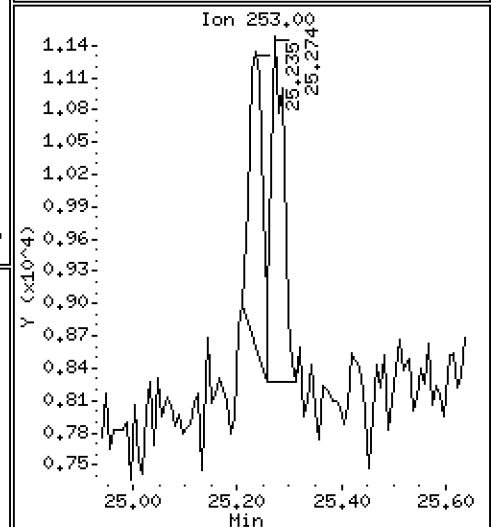
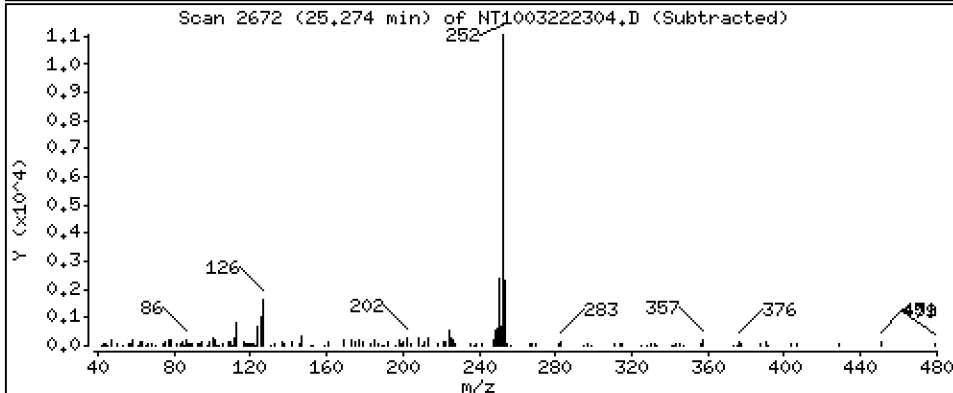
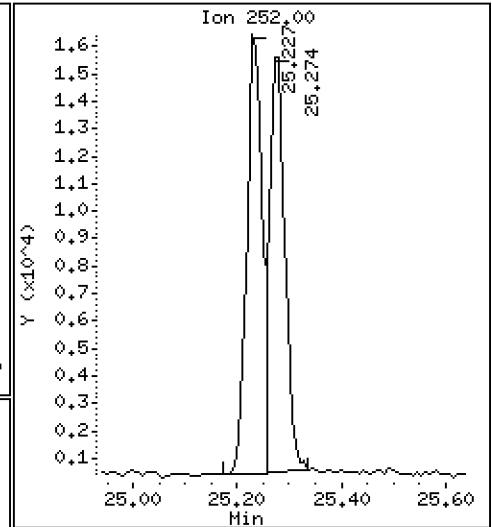
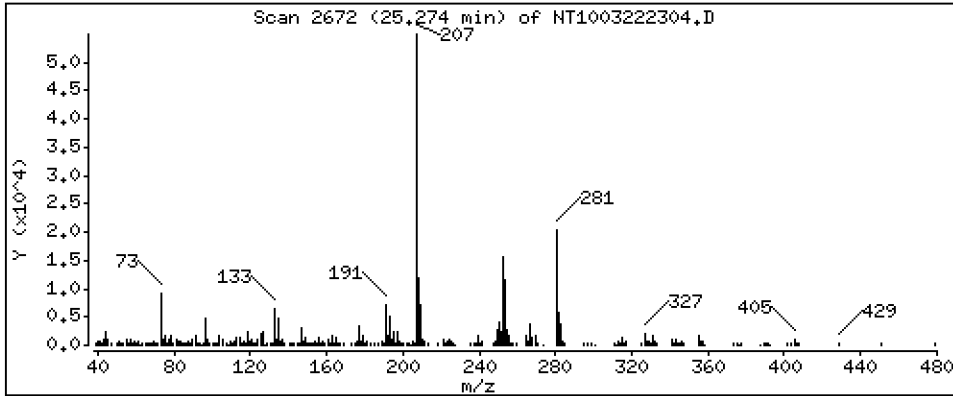
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,1936 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

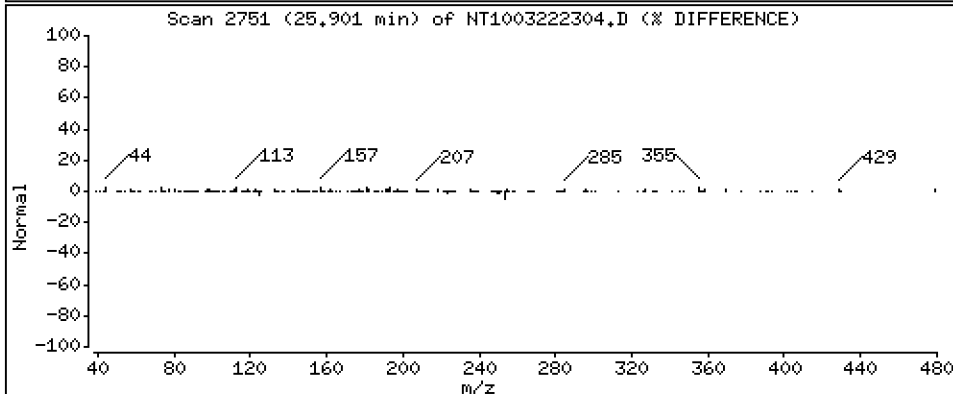
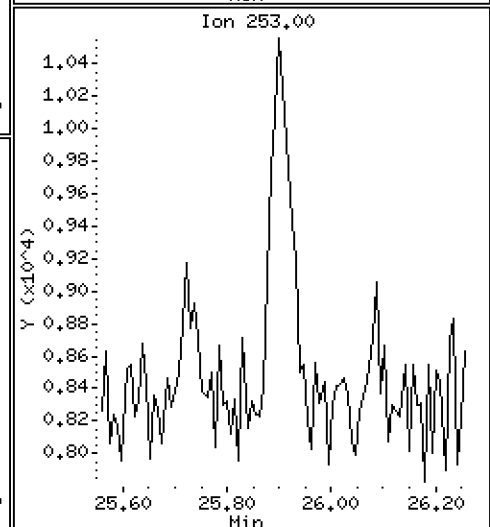
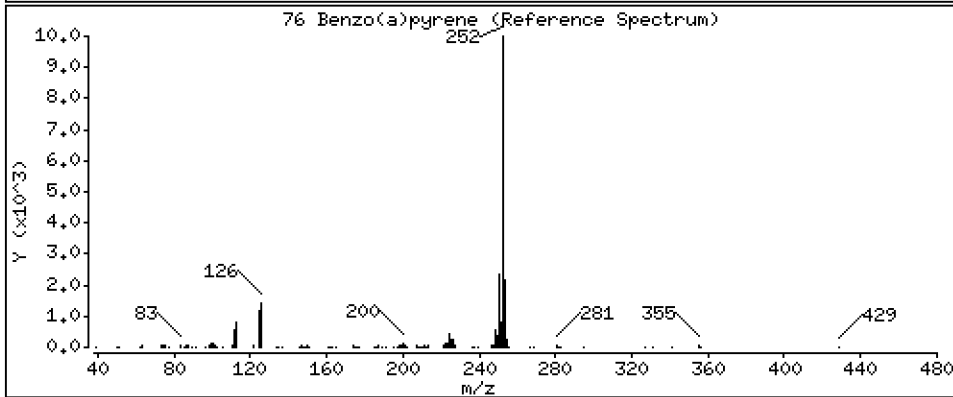
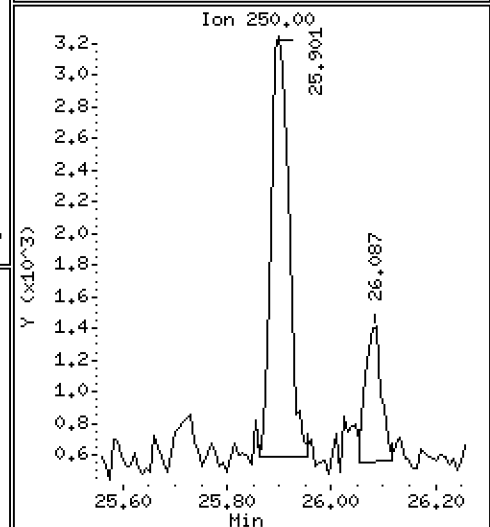
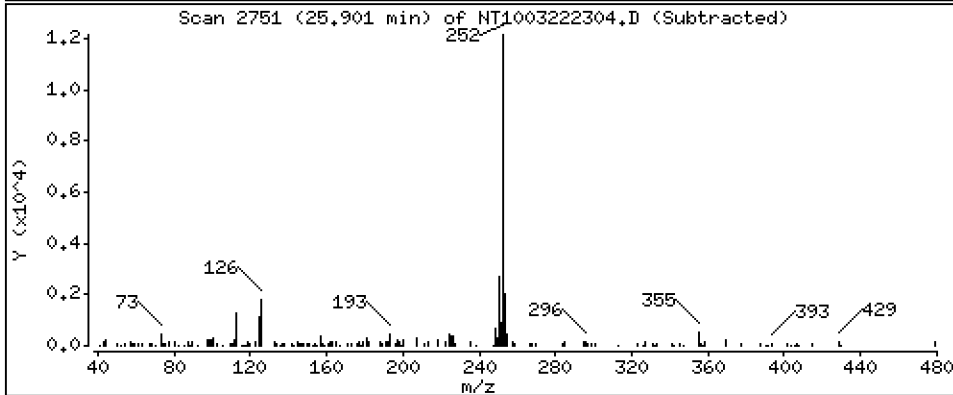
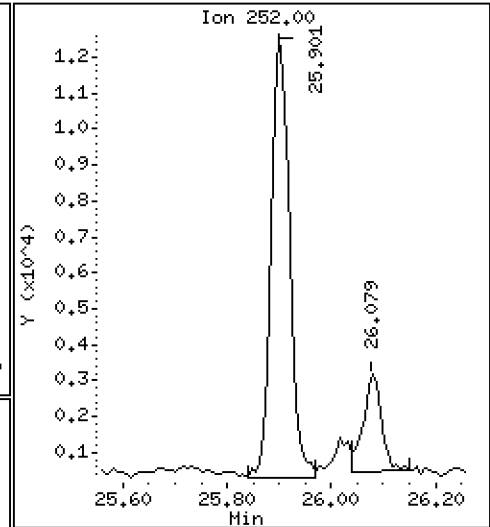
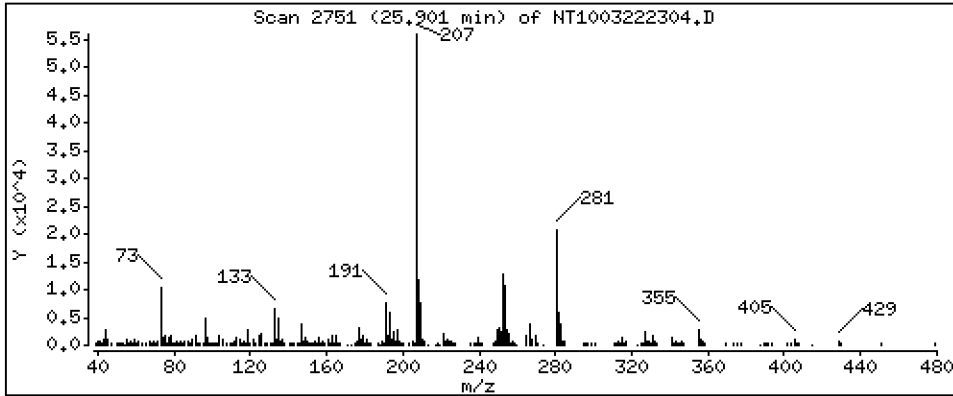
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2049 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

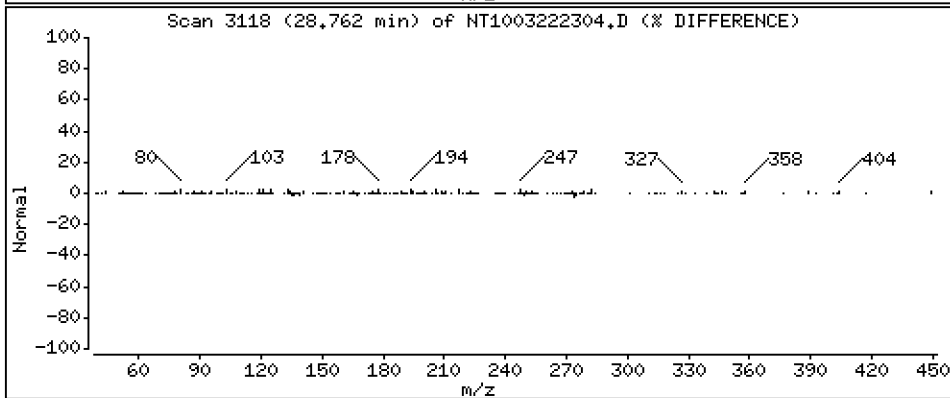
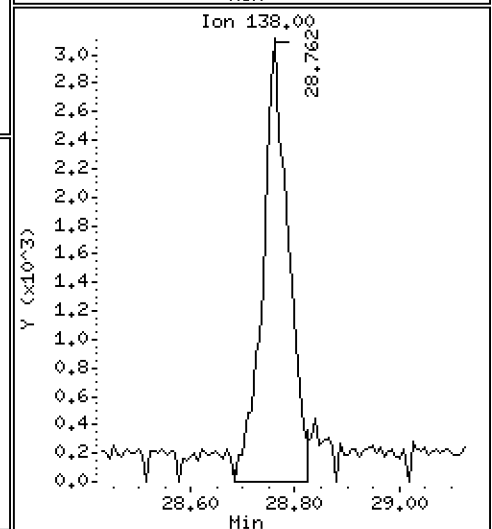
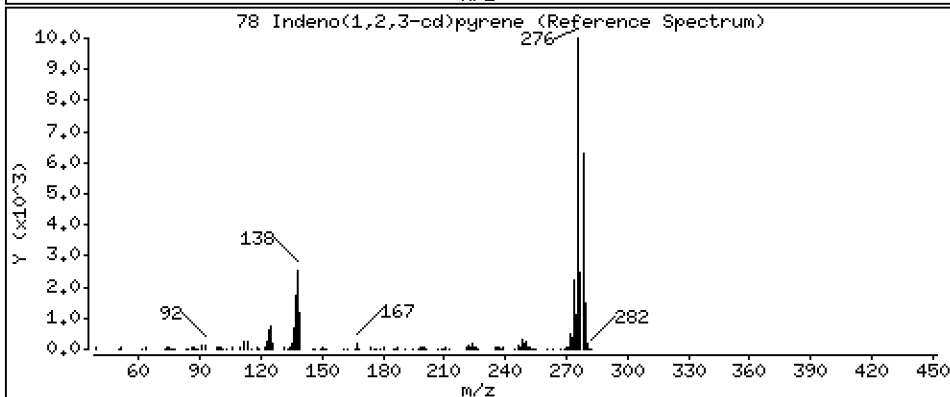
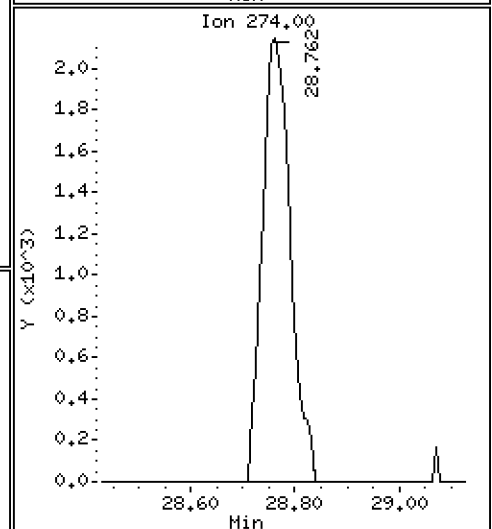
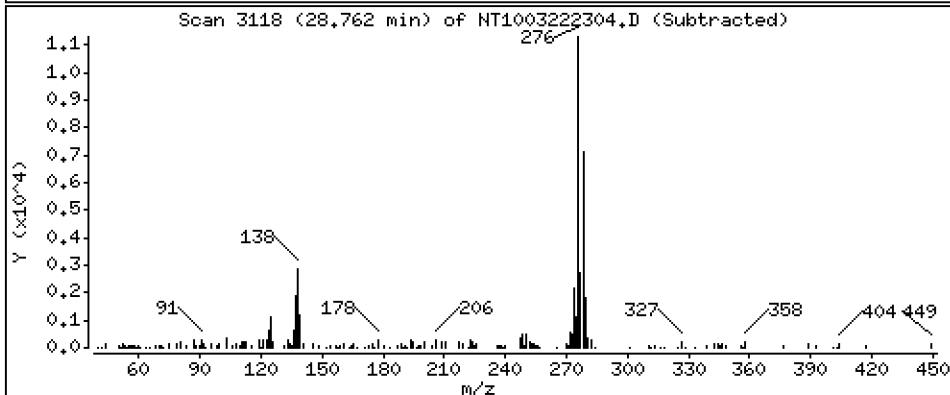
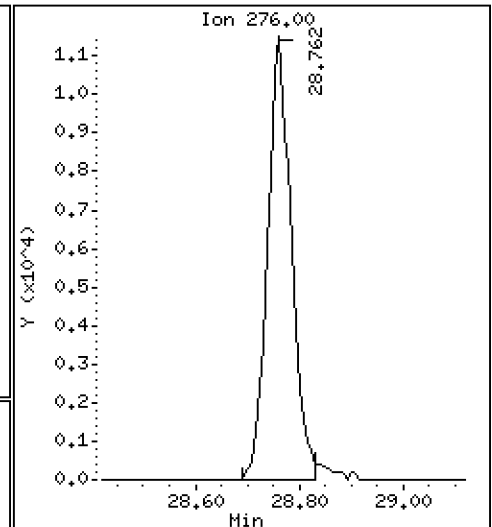
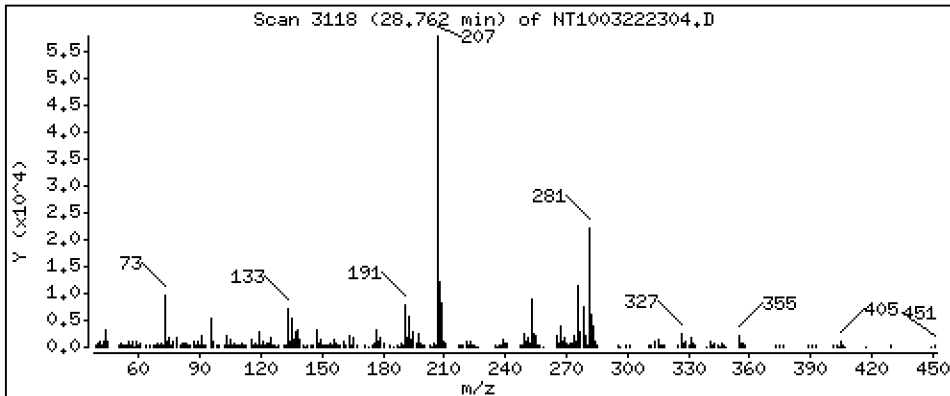
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,1973 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

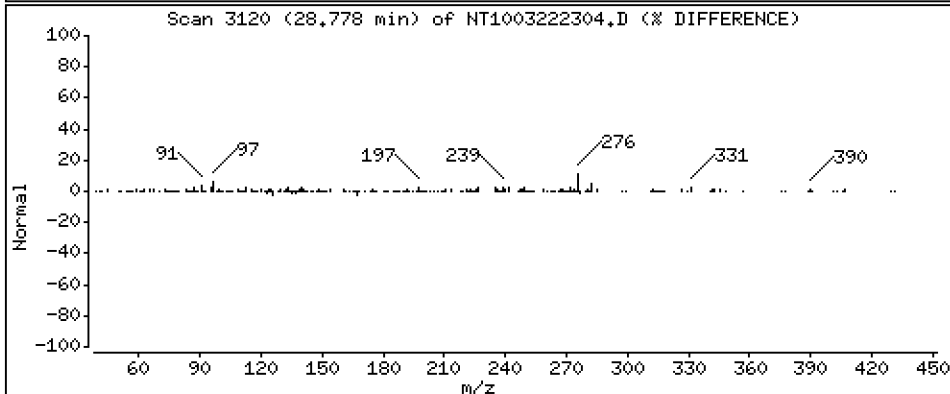
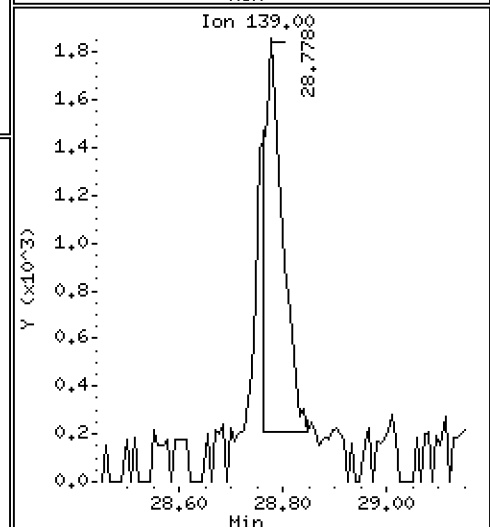
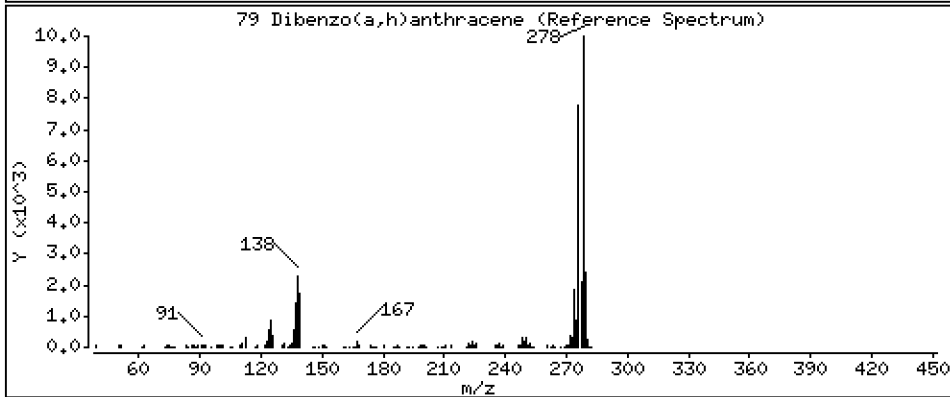
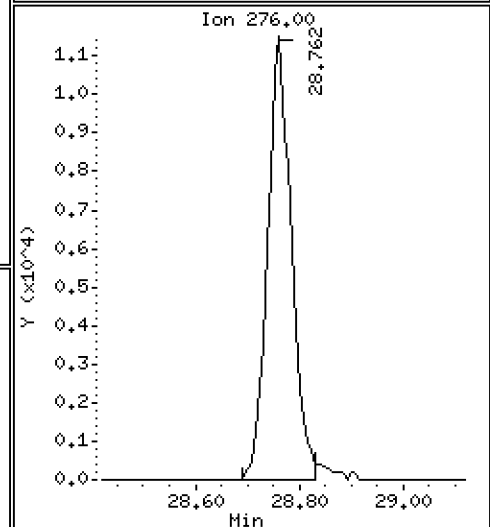
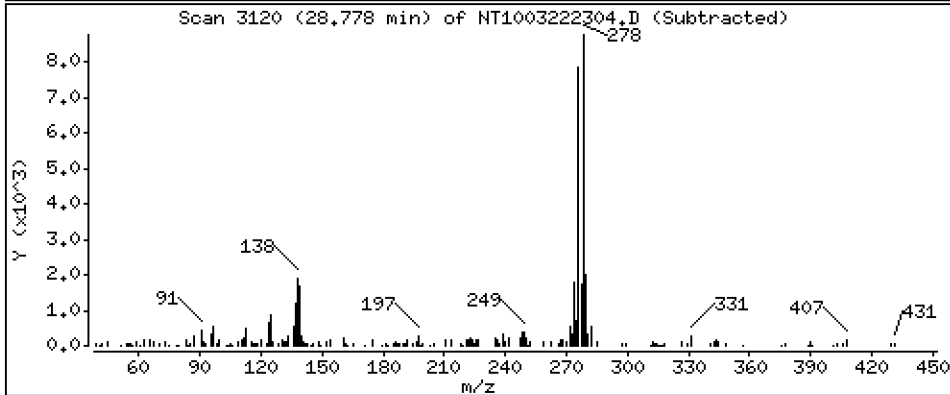
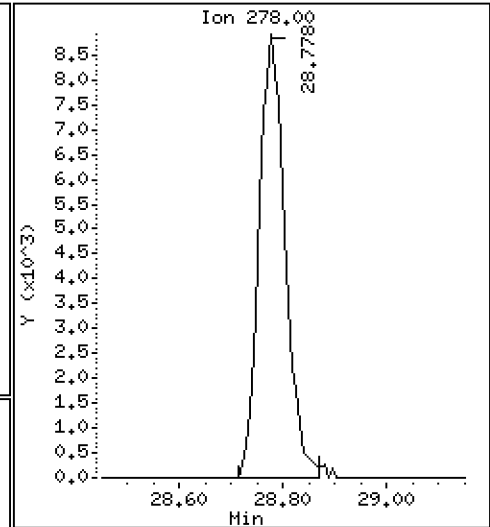
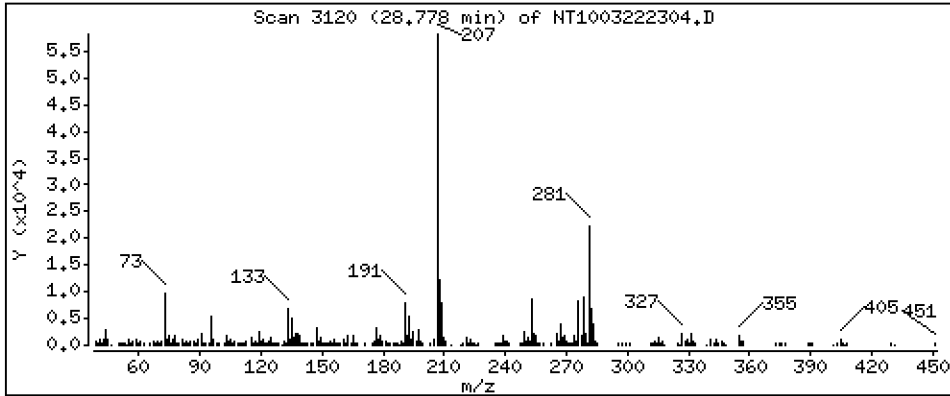
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2068 ug/mL





Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

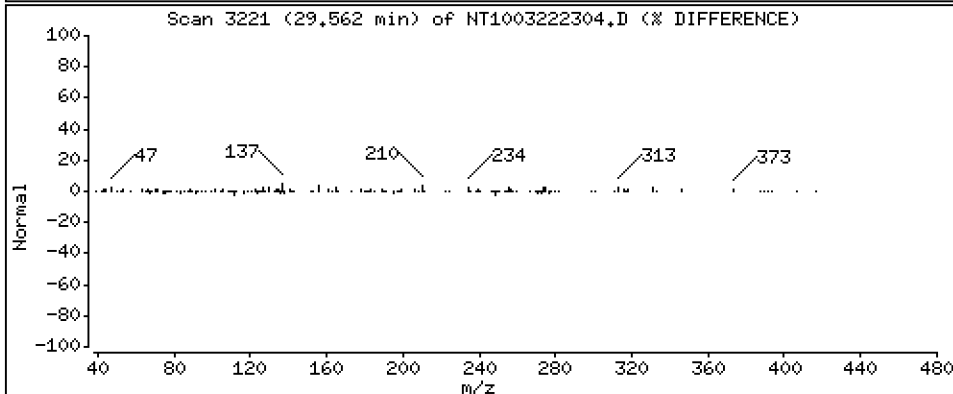
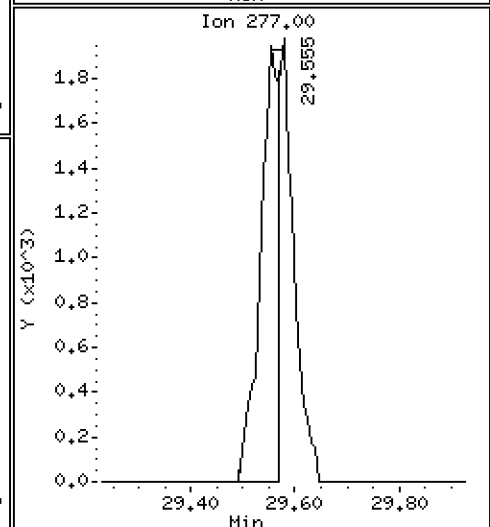
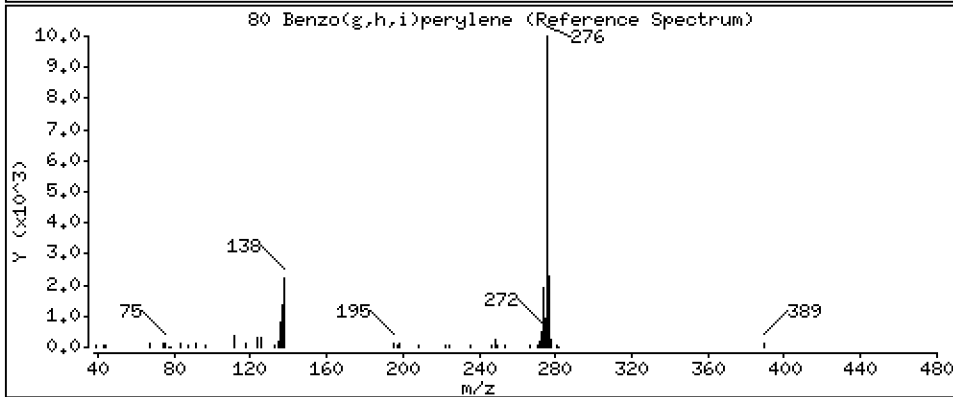
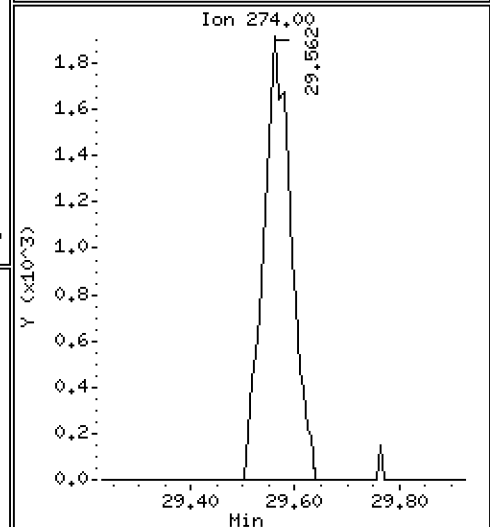
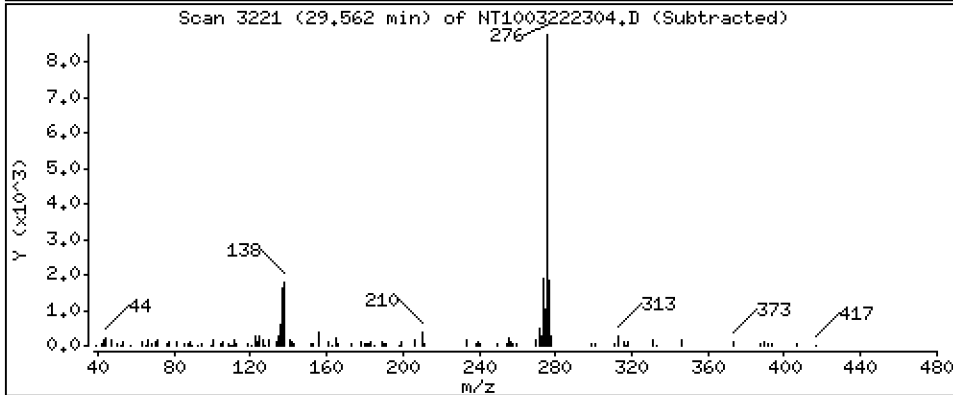
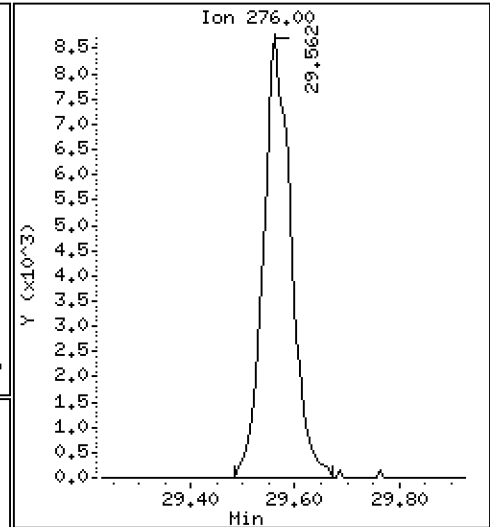
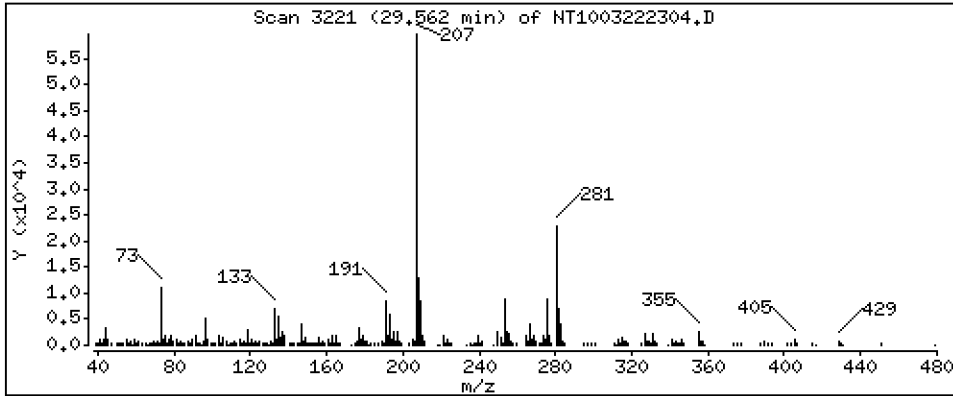
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,2049 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

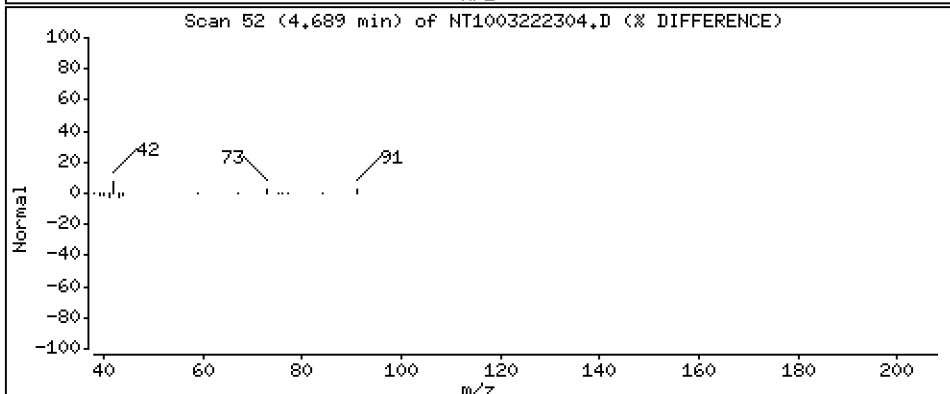
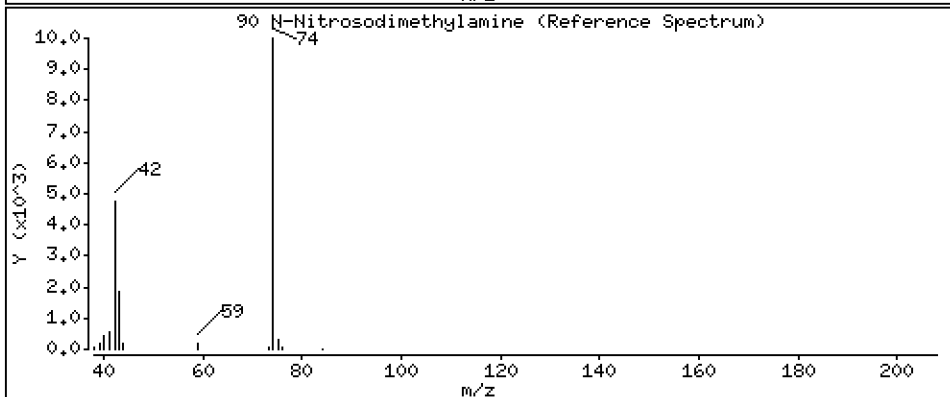
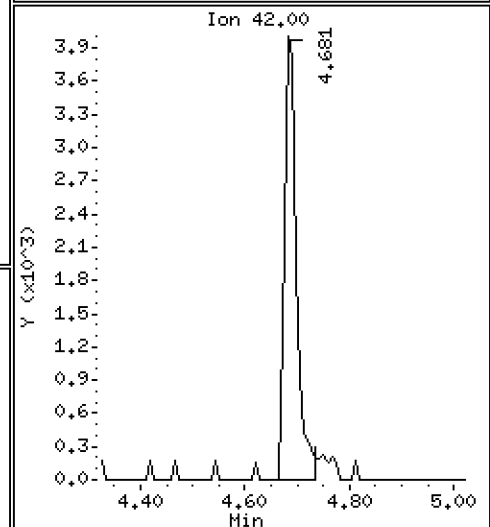
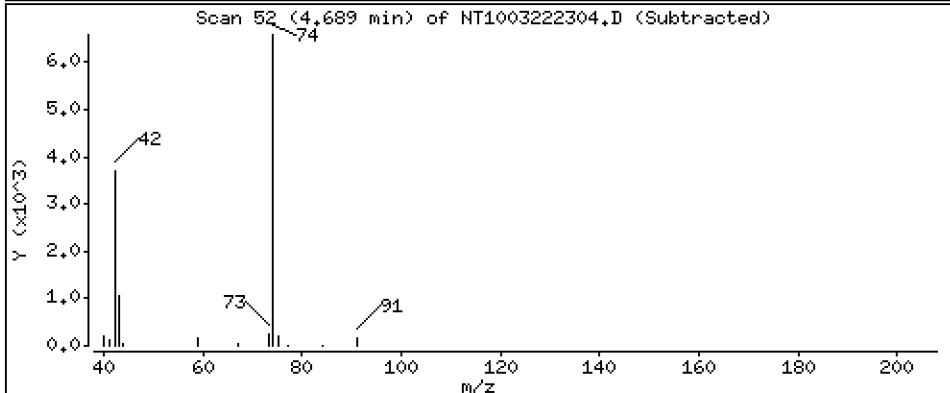
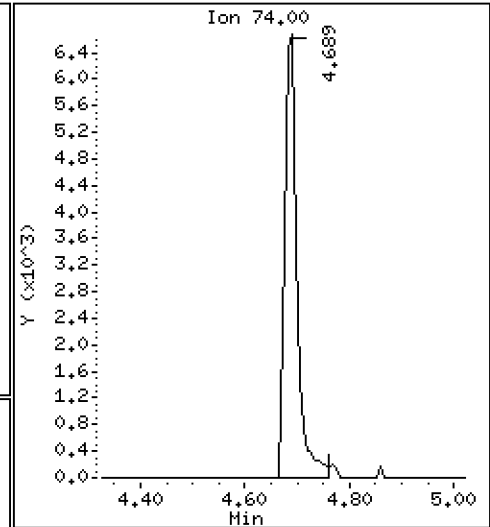
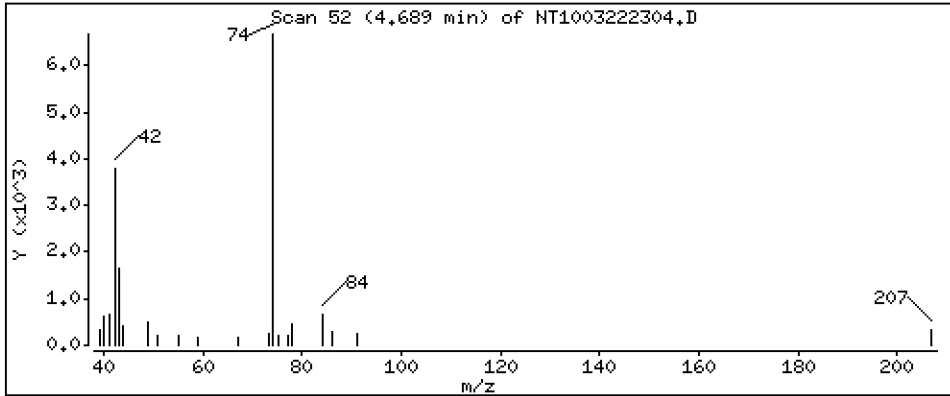
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,3834 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

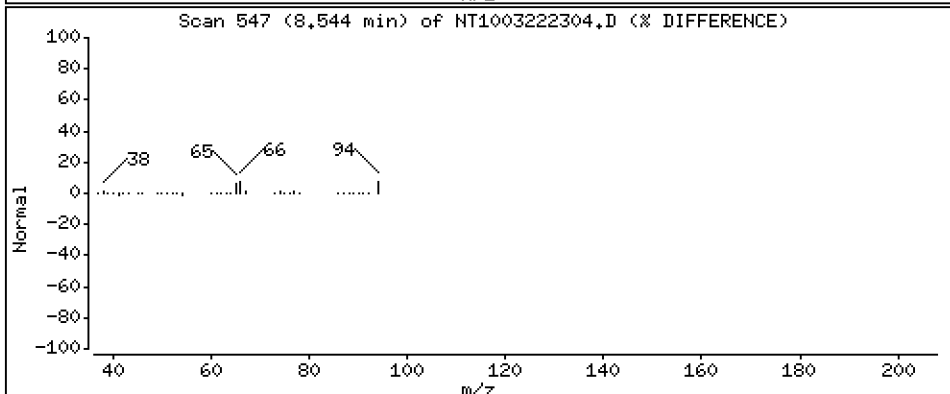
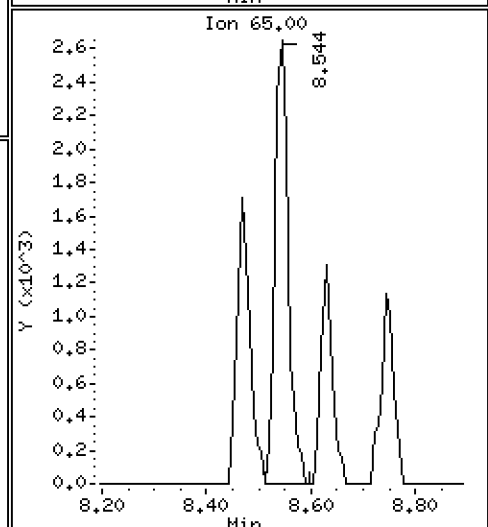
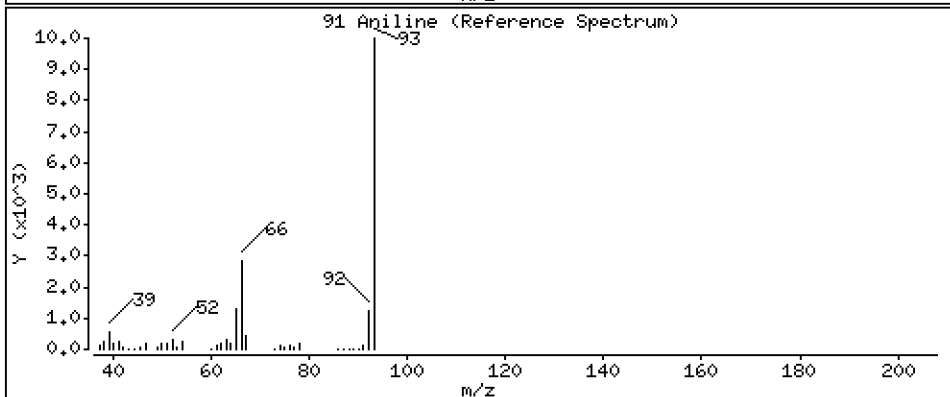
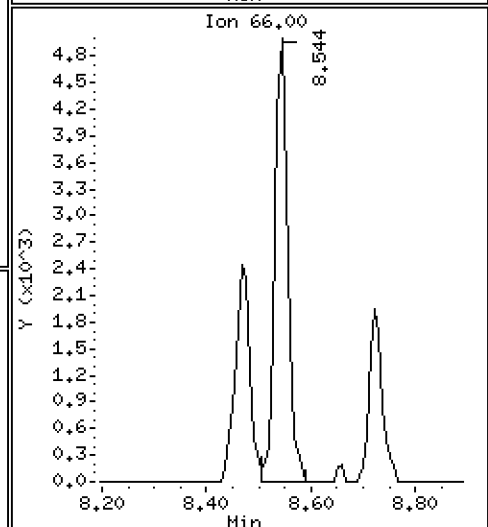
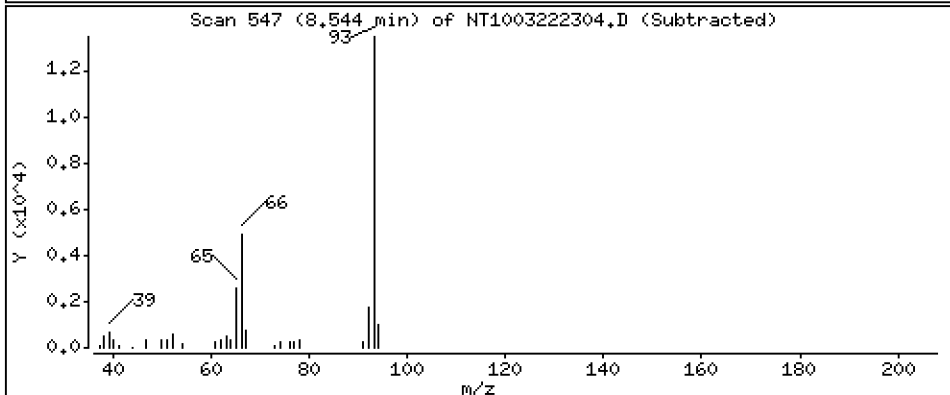
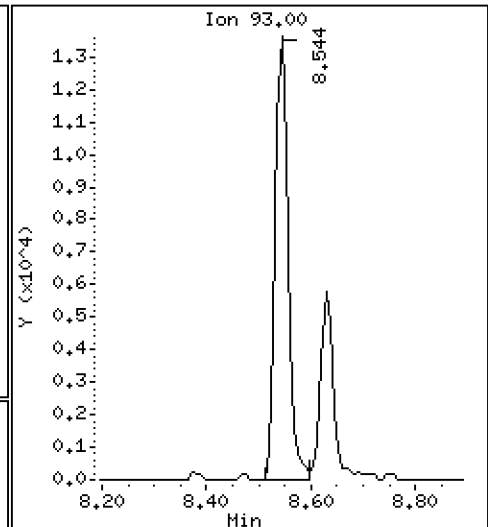
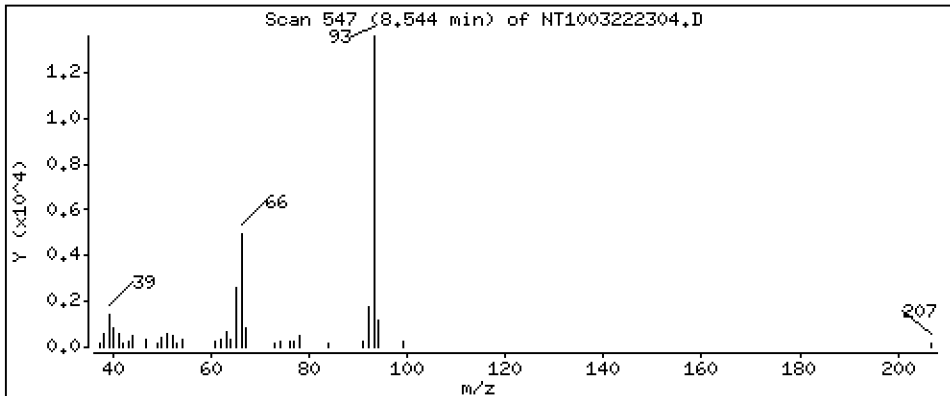
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.3715 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

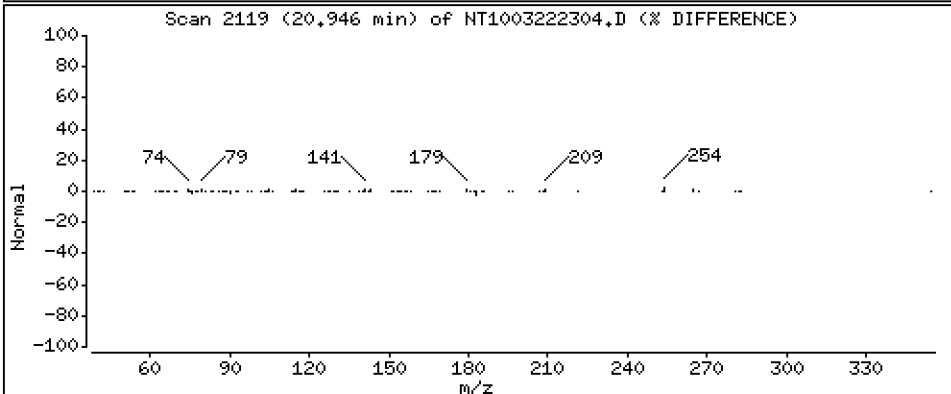
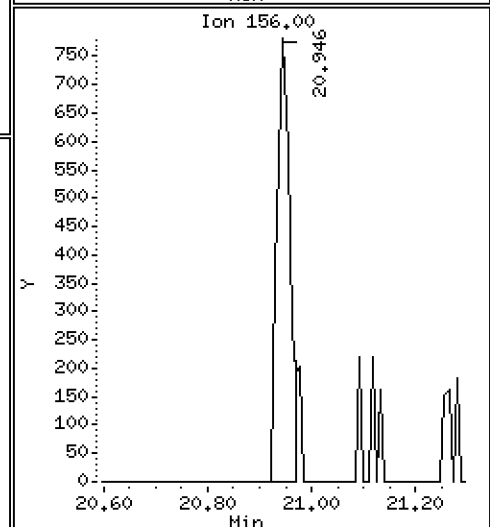
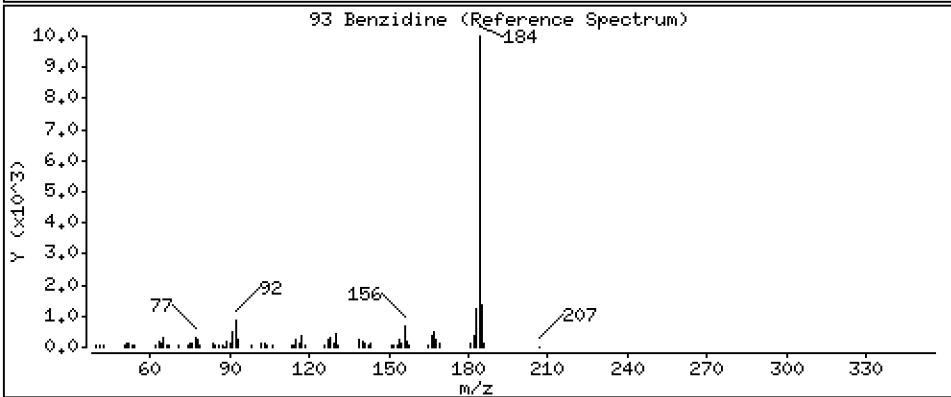
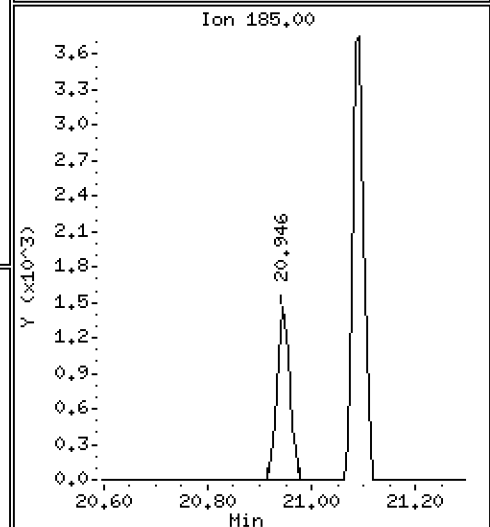
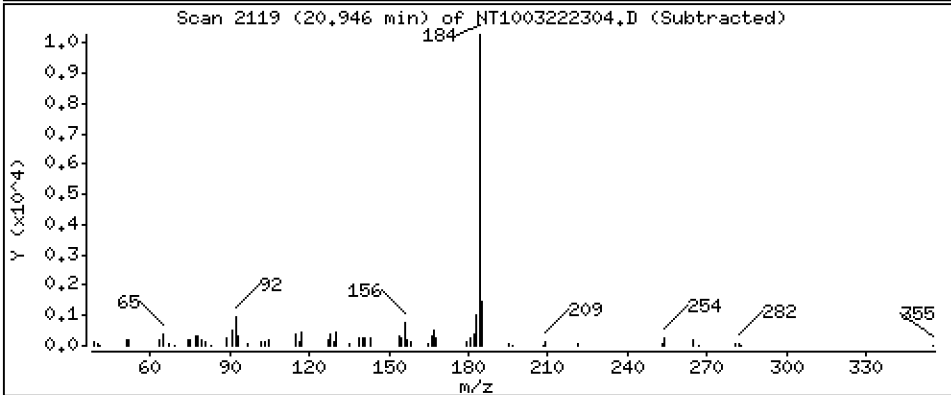
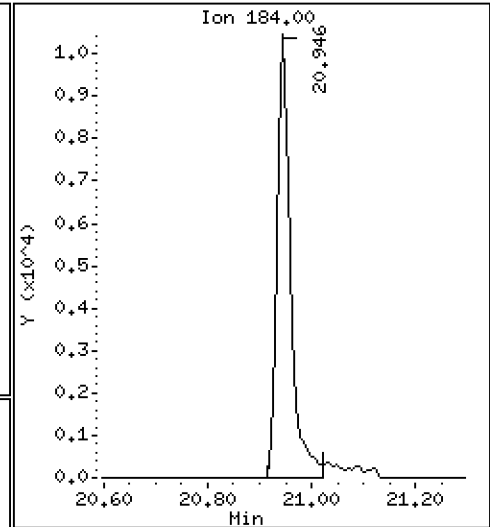
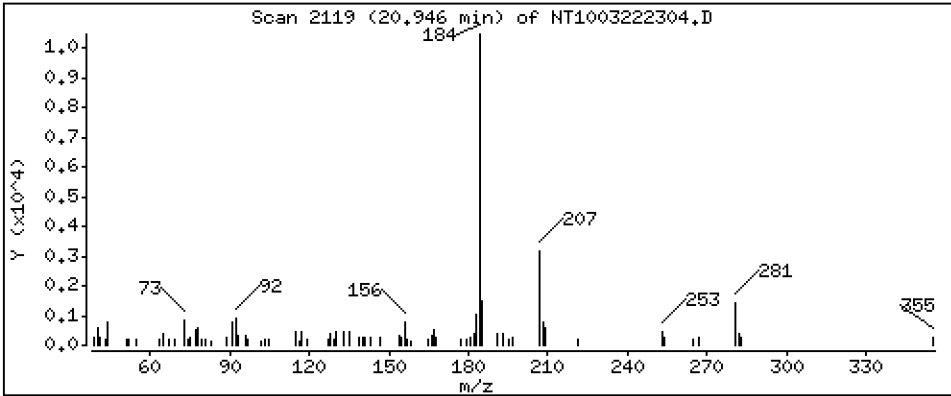
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,2508 ug/mL

93 Benzidine



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

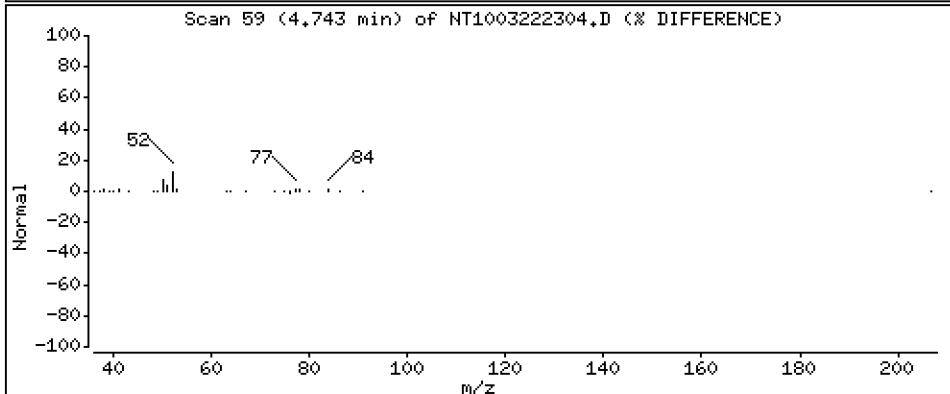
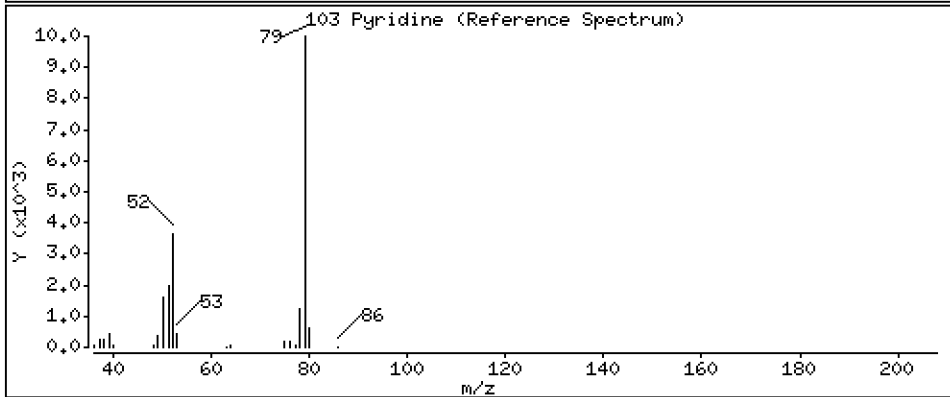
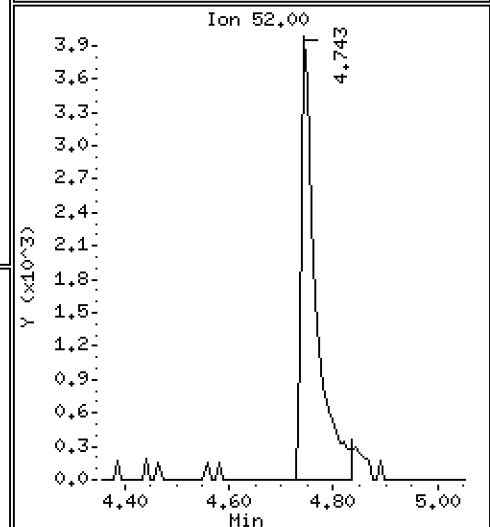
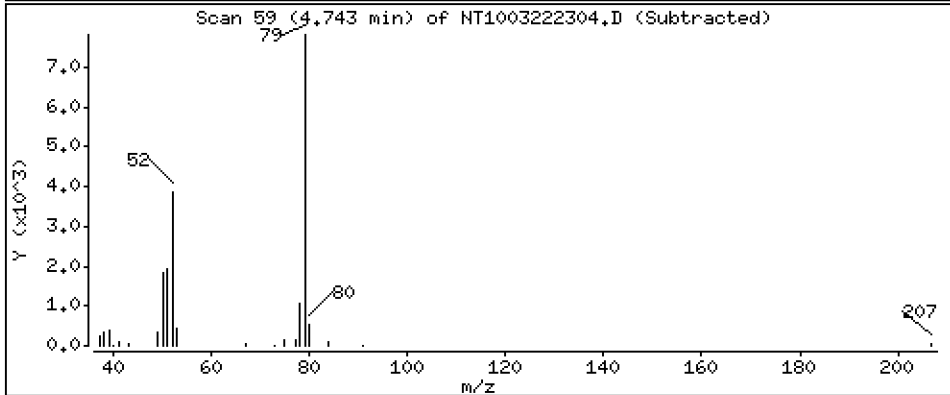
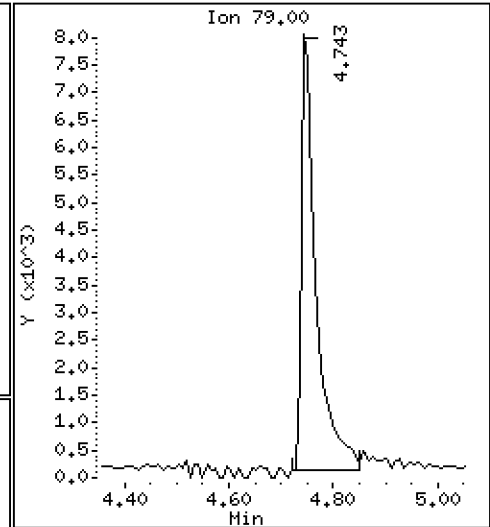
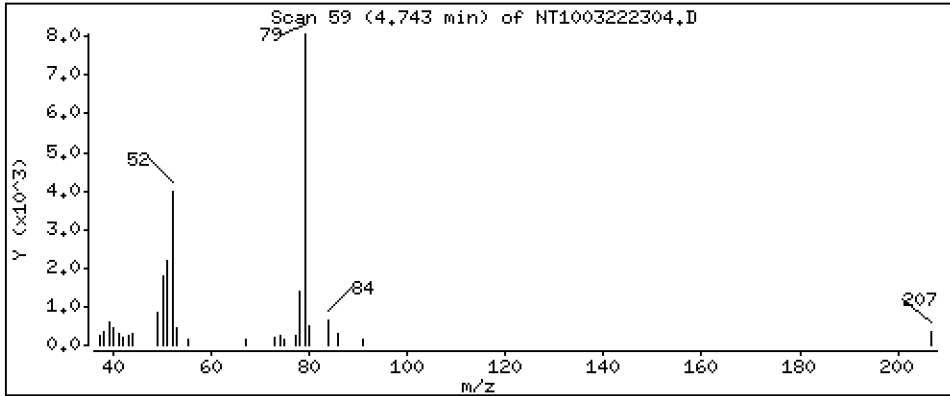
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,3765 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

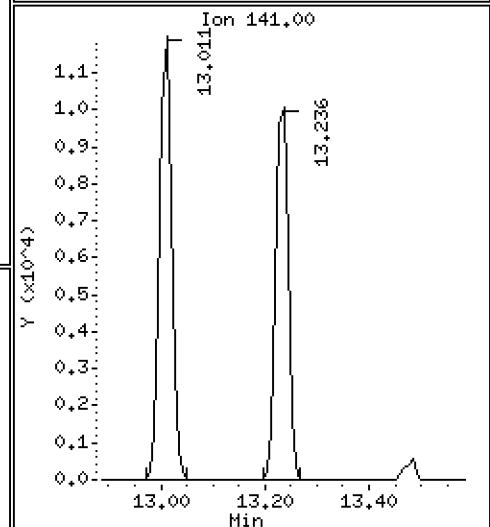
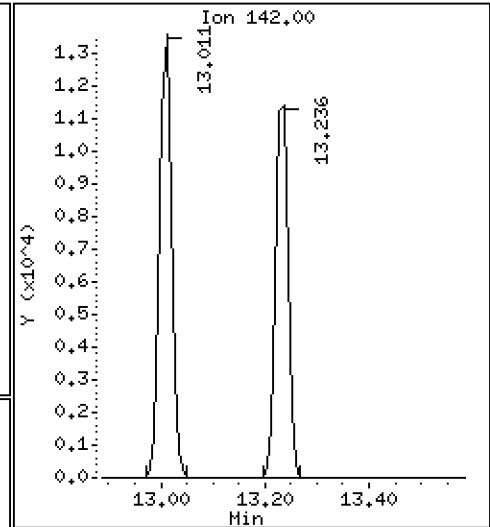
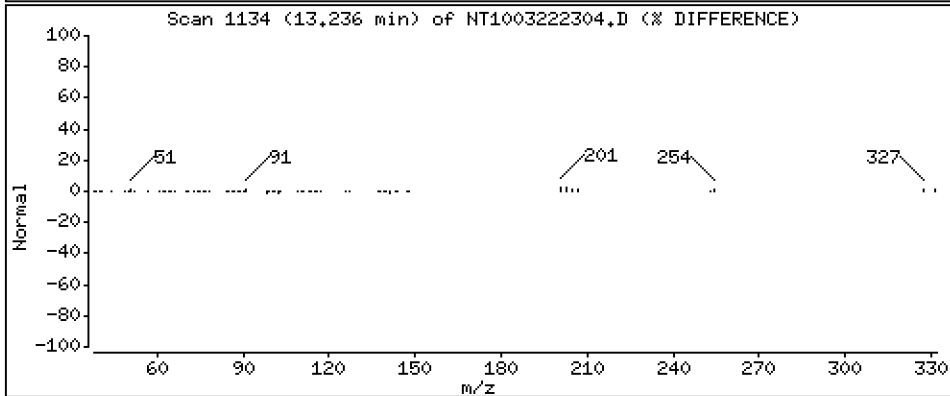
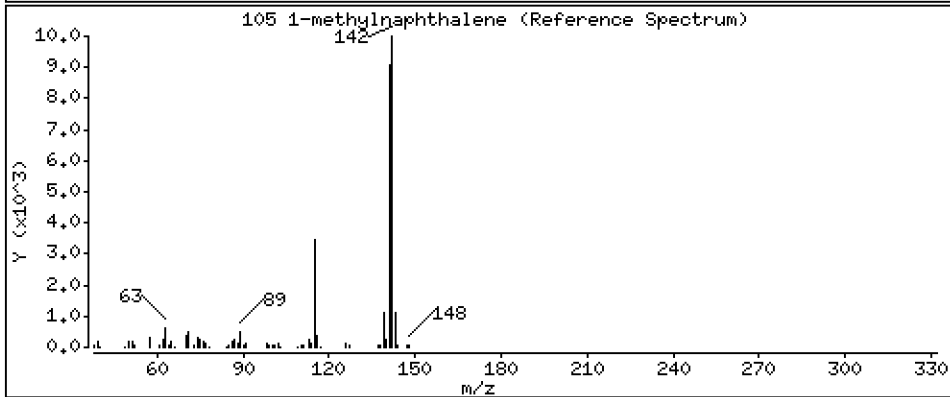
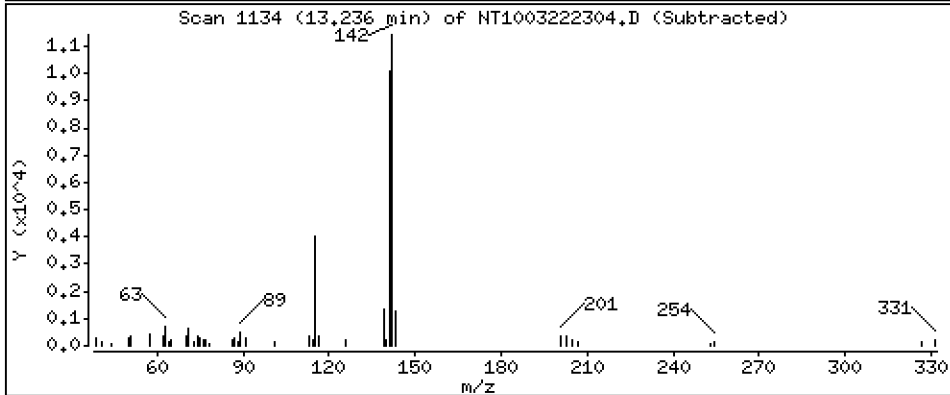
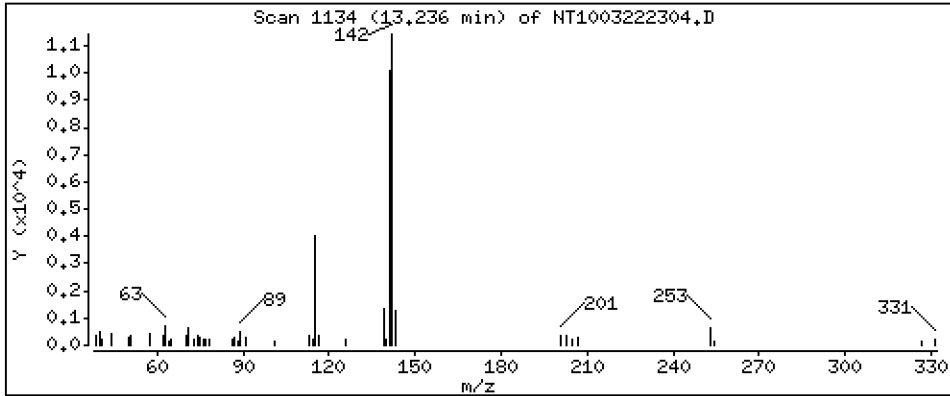
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,2057 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

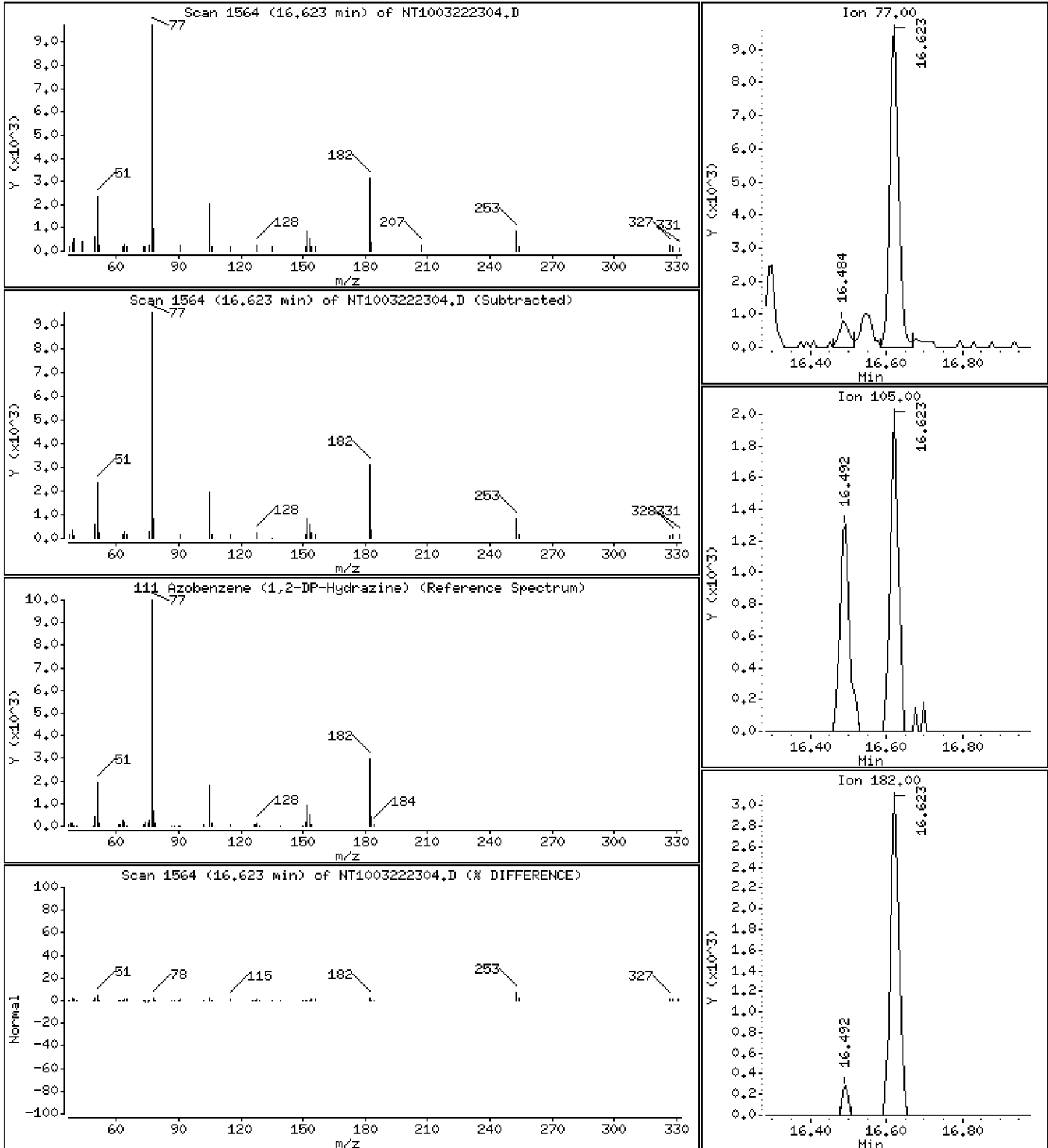
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,1573 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

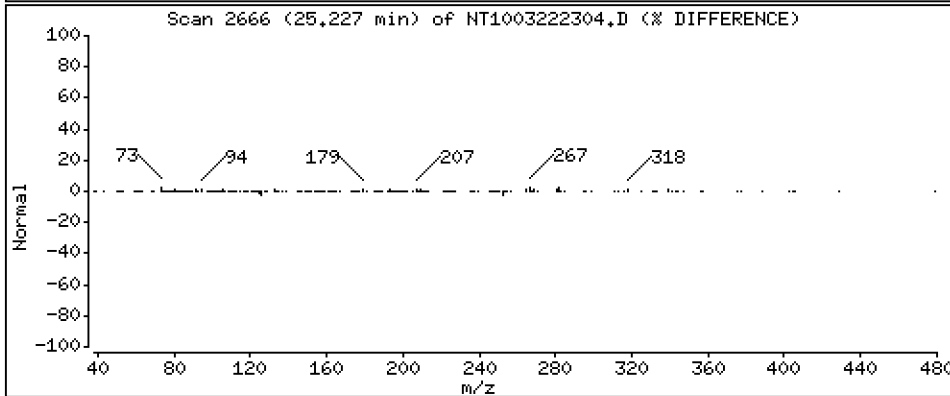
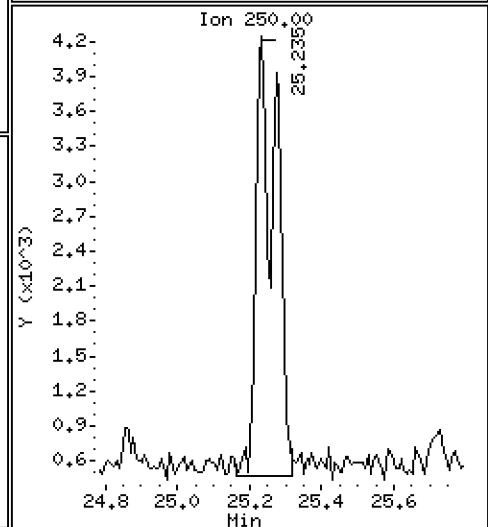
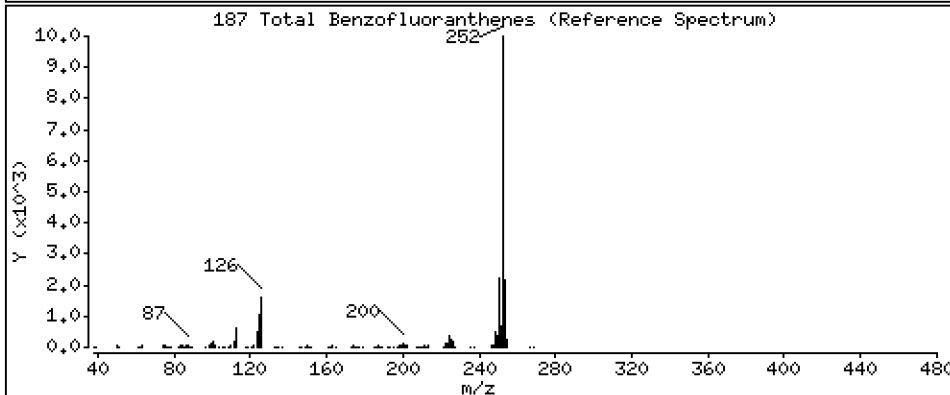
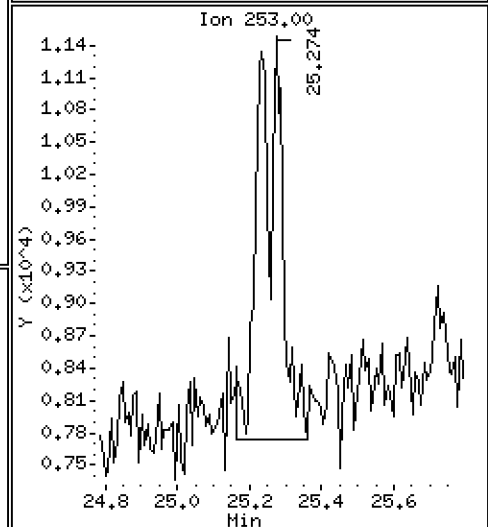
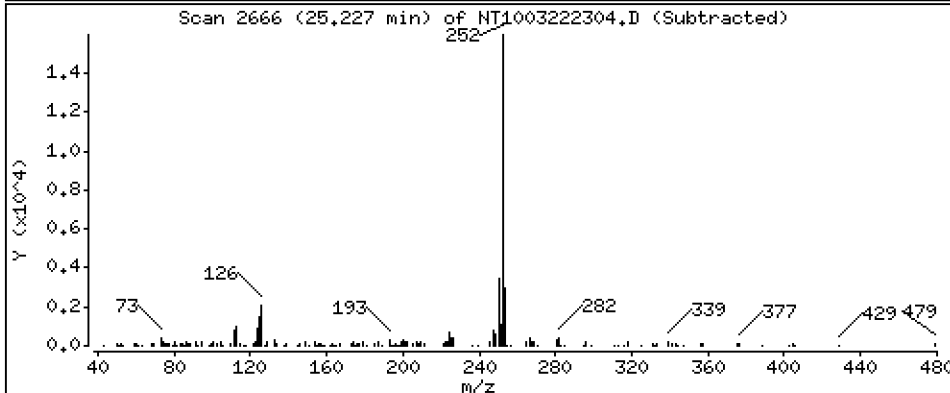
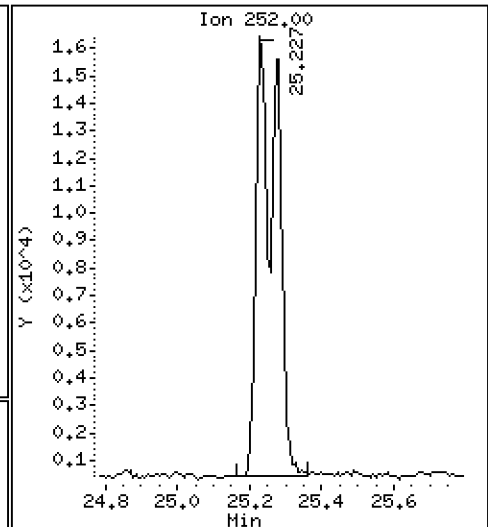
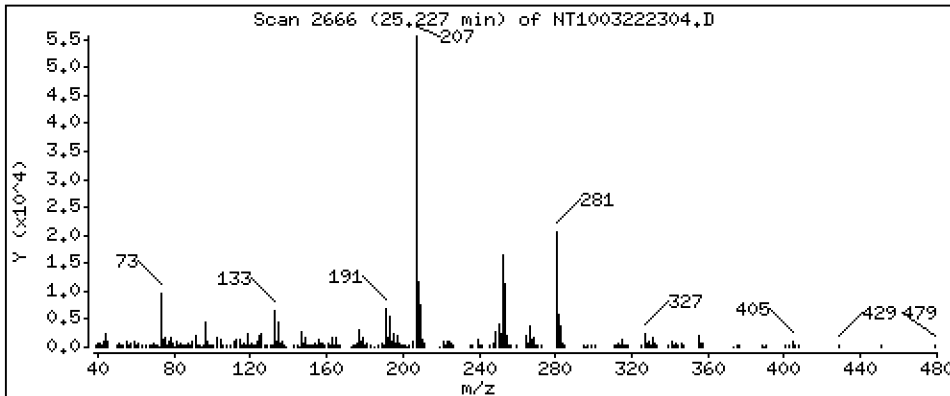
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,4084 ug/mL





Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

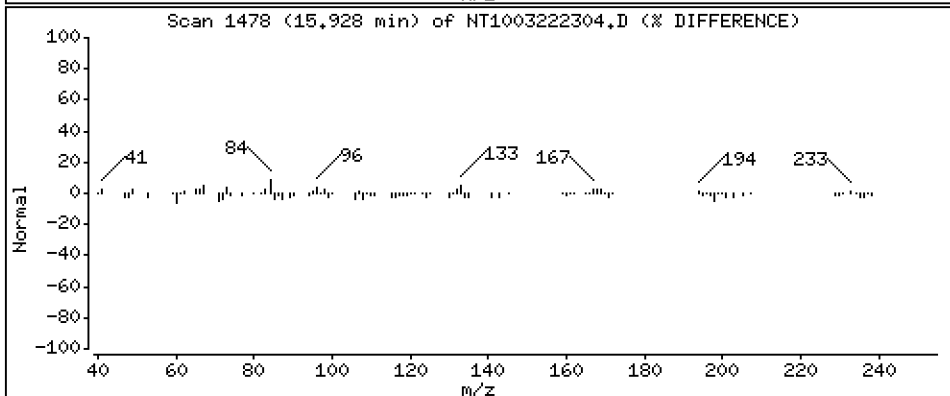
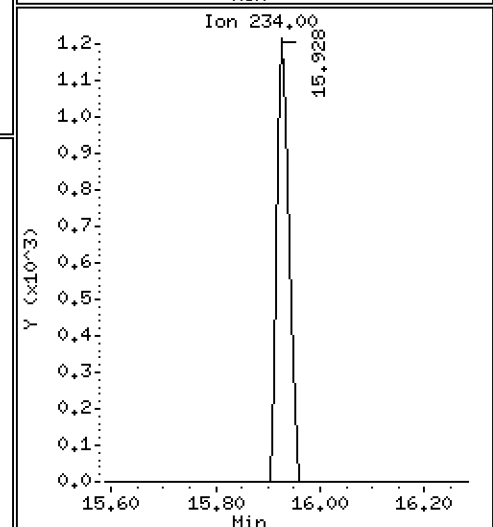
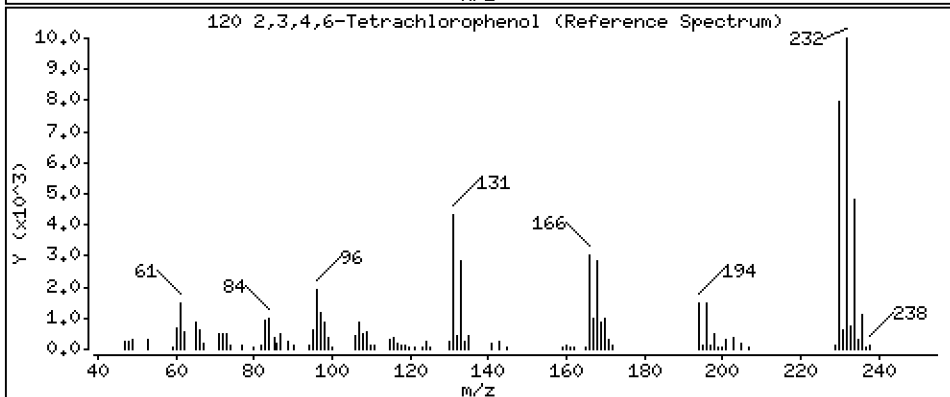
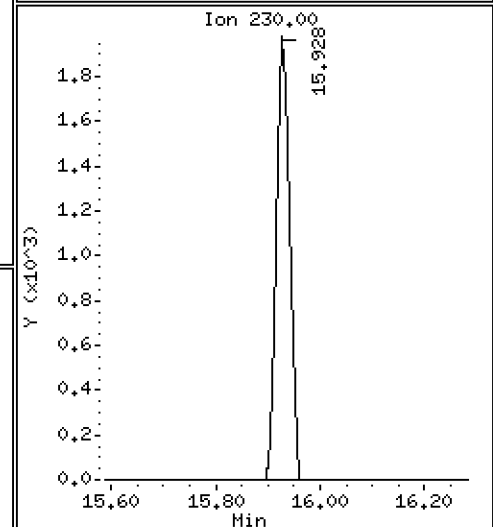
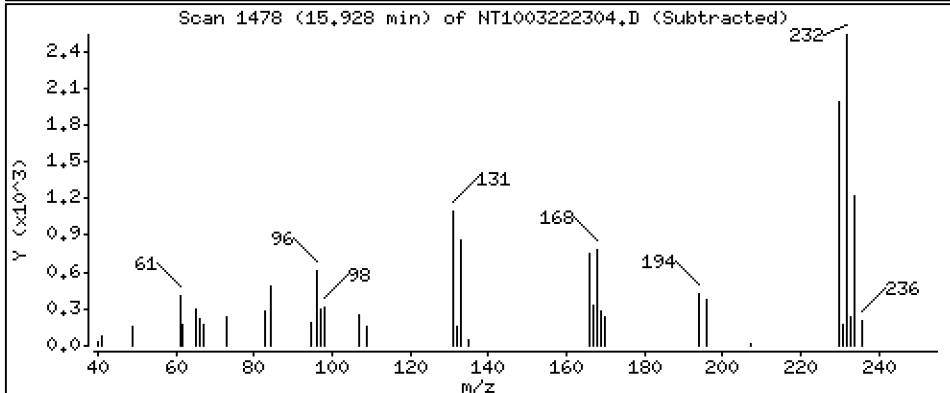
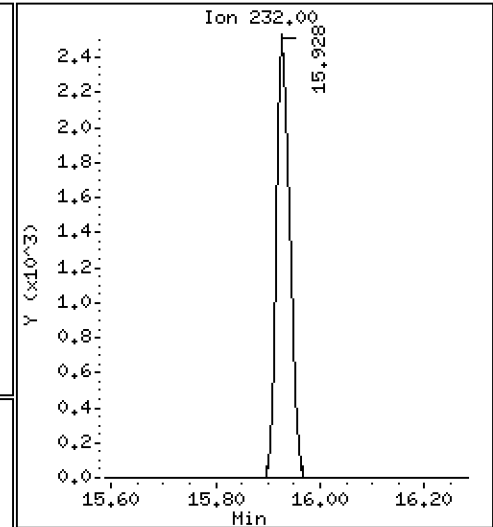
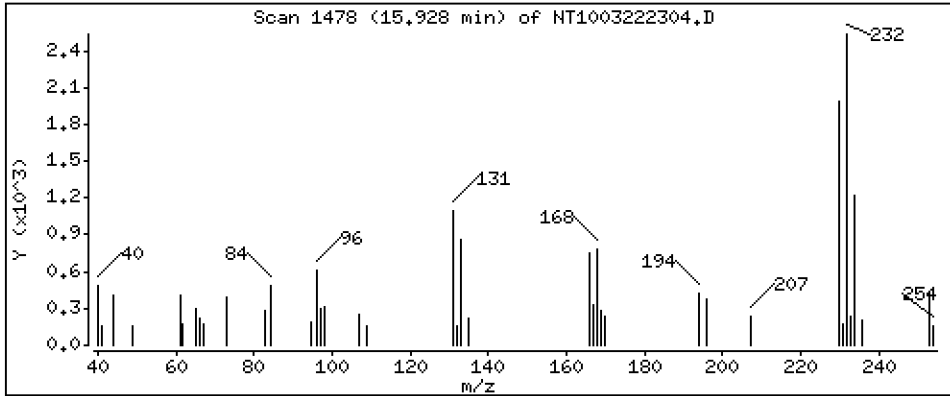
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1565 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222304.D  
 Lab Smp Id: SLC0397-LCV1  
 Inj Date : 22-MAR-2023 18:59  
 Operator : VTS  
 Smp Info : SLC0397-LCV1  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 07:55 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |            |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|------------|
|                                 |       |     |        |        |         |          | ON-COLUMN      | FINAL      |
|                                 | MASS  |     |        |        |         |          | (ug/mL)        | (ug/mL)    |
| \$ 1 2-Fluorophenol             | 112   |     | 6.859  | 6.851  | (0.755) | 12966    | 0.30189        | 0.3019     |
| \$ 2 Phenol-d5                  | 99    |     | 8.451  | 8.450  | (0.930) | 15517    | 0.27540        | 0.2754     |
| 3 Phenol                        | 94    |     | 8.466  | 8.473  | (0.932) | 10955    | 0.18711        | 0.1871     |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.721  | 8.721  | (0.960) | 14282    | 0.29684        | 0.2968     |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.628  | 8.628  | (0.950) | 8771     | 0.20198        | 0.2020     |
| 6 2-Chlorophenol                | 128   |     | 8.752  | 8.752  | (0.963) | 9410     | 0.18779        | 0.1878     |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.015  | 9.022  | (0.992) | 11613    | 0.21921        | 0.2192     |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.085  | 9.084  | (1.000) | 142022   | 4.00000        |            |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.116  | 9.115  | (1.003) | 10855    | 0.21211        | 0.2121     |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.442  | 9.449  | (1.039) | 7265     | 0.21026        | 0.2103     |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.473  | 9.472  | (1.043) | 10817    | 0.21477        | 0.2148     |
| 11 Benzyl alcohol               | 108   |     | 9.364  | 9.356  | (1.031) | 4762     | 0.17328        | 0.1733     |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.651  | 9.659  | (1.062) | 3016     | 0.20391        | 0.2039 (M) |
| 13 2-Methylphenol               | 108   |     | 9.589  | 9.589  | (1.056) | 7796     | 0.18266        | 0.1827     |
| 17 Hexachloroethane             | 117   |     | 10.063 | 10.062 | (1.108) | 4102     | 0.19536        | 0.1954     |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.915  | 9.923  | (1.091) | 5841     | 0.17332        | 0.1733     |
| 15 4-Methylphenol               | 108   |     | 9.853  | 9.853  | (1.085) | 7958     | 0.17696        | 0.1770     |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.179 | 10.187 | (0.880) | 8828     | 0.17323        | 0.1732     |
| 19 Nitrobenzene                 | 77    |     | 10.218 | 10.218 | (0.883) | 9268     | 0.18532        | 0.1853     |
| 20 Isophorone                   | 82    |     | 10.668 | 10.668 | (0.922) | 10014    | 0.15653        | 0.1565     |
| 21 2-Nitrophenol                | 139   |     | 10.850 | 10.850 | (0.938) | 5353     | 0.22012        | 0.2201 (M) |
| 22 2,4-Dimethylphenol           | 107   |     | 10.901 | 10.901 | (0.942) | 16512    | 0.35947        | 0.3595     |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.096 | 11.096 | (0.959) | 8305     | 0.19434        | 0.1943     |
| 24 Benzoic acid                 | 105   |     | 10.994 | 11.104 | (0.950) | 7775     | 0.30470        | 0.3047     |
| 25 2,4-Dichlorophenol           | 162   |     | 11.300 | 11.300 | (0.976) | 13883    | 0.37768        | 0.3777     |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.487 | 11.487 | (0.993) | 9517     | 0.22056        | 0.2206     |
| * 27 Naphthalene-d8             | 136   |     | 11.572 | 11.572 | (1.000) | 504872   | 4.00000        |            |
| 28 Naphthalene                  | 128   |     | 11.611 | 11.611 | (1.003) | 28117    | 0.21022        | 0.2102     |
| 29 4-Chloroaniline              | 127   |     | 11.742 | 11.750 | (1.015) | 18626    | 0.35697        | 0.3570     |
| 30 Hexachlorobutadiene          | 225   |     | 11.974 | 11.974 | (1.035) | 6037     | 0.23878        | 0.2388     |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.709 | 12.709 | (1.098) | 13431    | 0.33752        | 0.3375     |
| 32 2-Methylnaphthalene          | 142   |     | 13.011 | 13.011 | (1.124) | 20613    | 0.21356        | 0.2136     |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.475 | 13.475 | (0.887) | 6066     | 0.23759        | 0.2376     |

| Compounds                         | QUANT SIG |        |        |         |          | CONCENTRATIONS       |                  |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                                   | MASS      | RT     | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 13.630 | 13.637 | (0.897) | 9955     | 0.36511              | 0.3651           |
| 35 2,4,5-Trichlorophenol          | 196       | 13.707 | 13.707 | (0.902) | 10092    | 0.33311              | 0.3331           |
| § 36 2-Fluorobiphenyl             | 172       | 13.793 | 13.800 | (0.908) | 22479    | 0.20599              | 0.2060           |
| 37 2-Chloronaphthalene            | 162       | 14.001 | 14.009 | (0.922) | 17503    | 0.19809              | 0.1981           |
| 38 2-Nitroaniline                 | 65        | 14.265 | 14.272 | (0.939) | 6527     | 0.26297              | 0.2630           |
| 39 Dimethylphthalate              | 163       | 14.698 | 14.706 | (0.967) | 18264    | 0.20380              | 0.2038           |
| 40 Acenaphthylene                 | 152       | 14.876 | 14.884 | (0.979) | 27295    | 0.19824              | 0.1982           |
| 41 2,6-Dinitrotoluene             | 165       | 14.837 | 14.845 | (0.977) | 6279     | 0.32433              | 0.3243           |
| * 42 Acenaphthene-d10             | 164       | 15.193 | 15.193 | (1.000) | 275869   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138       | 15.124 | 15.131 | (0.995) | 5745     | 0.26291              | 0.2629           |
| 44 Acenaphthene                   | 153       | 15.255 | 15.263 | (1.004) | 16836    | 0.19793              | 0.1979           |
| 45 2,4-Dinitrophenol              | 184       | 15.340 | 15.340 | (1.010) | 1817     | 0.15549              | 0.1555 (M)       |
| 46 Dibenzofuran                   | 168       | 15.587 | 15.595 | (1.026) | 25515    | 0.20341              | 0.2034           |
| 47 4-Nitrophenol                  | 109       | 15.456 | 15.456 | (1.017) | 2179     | 0.15854              | 0.1585           |
| 48 2,4-Dinitrotoluene             | 165       | 15.649 | 15.657 | (1.030) | 7887     | 0.26933              | 0.2693           |
| 50 Diethylphthalate               | 149       | 16.160 | 16.175 | (1.064) | 20158    | 0.22925              | 0.2293           |
| 49 Fluorene                       | 166       | 16.299 | 16.306 | (1.073) | 20785    | 0.21062              | 0.2106           |
| 51 4-Chlorophenyl-phenylether     | 204       | 16.299 | 16.298 | (1.073) | 10392    | 0.22145              | 0.2215           |
| 52 4-Nitroaniline                 | 138       | 16.399 | 16.406 | (1.079) | 4836     | 0.24558              | 0.2456           |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 16.491 | 16.499 | (0.904) | 5638     | 0.37315              | 0.3731           |
| 54 N-Nitrosodiphenylamine         | 169       | 16.545 | 16.553 | (0.907) | 12819    | 0.19182              | 0.1918           |
| § 55 2,4,6-Tribromophenol         | 330       | 16.838 | 16.846 | (1.108) | 3326     | 0.25625              | 0.2563           |
| 56 4-Bromophenyl-phenylether      | 248       | 17.309 | 17.308 | (0.949) | 5746     | 0.20552              | 0.2055           |
| 57 Hexachlorobenzene              | 284       | 17.618 | 17.626 | (0.966) | 6920     | 0.23608              | 0.2361           |
| 58 Pentachlorophenol              | 266       | 17.982 | 17.990 | (0.986) | 3831     | 0.22090              | 0.2209           |
| * 59 Phenanthrene-d10             | 188       | 18.245 | 18.253 | (1.000) | 499862   | 4.00000              |                  |
| 60 Phenanthrene                   | 178       | 18.292 | 18.299 | (1.003) | 28189    | 0.20681              | 0.2068           |
| 61 Anthracene                     | 178       | 18.384 | 18.392 | (1.008) | 23797    | 0.18201              | 0.1820           |
| 62 Carbazole                      | 167       | 18.725 | 18.725 | (1.026) | 21462    | 0.18318              | 0.1832           |
| 63 Di-n-butylphthalate            | 149       | 19.537 | 19.545 | (1.071) | 32529    | 0.20650              | 0.2065           |
| 64 Fluoranthene                   | 202       | 20.698 | 20.705 | (0.887) | 31900    | 0.18328              | 0.1833           |
| 65 Pyrene                         | 202       | 21.123 | 21.131 | (0.905) | 32670    | 0.18298              | 0.1830           |
| § 66 Terphenyl-d14                | 244       | 21.425 | 21.425 | (0.918) | 27049    | 0.20173              | 0.2017           |
| 67 Butylbenzylphthalate           | 149       | 22.370 | 22.369 | (0.958) | 11514    | 0.18364              | 0.1836           |
| 68 Benzo(a)anthracene             | 228       | 23.314 | 23.314 | (0.999) | 30657    | 0.20051              | 0.2005           |
| * 69 Chrysene-d12                 | 240       | 23.345 | 23.345 | (1.000) | 433161   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252       | 23.276 | 23.275 | (0.997) | 28893    | 0.58997              | 0.5900           |
| 71 Chrysene                       | 228       | 23.384 | 23.392 | (1.002) | 30672    | 0.20534              | 0.2053           |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 23.407 | 23.407 | (0.959) | 14932    | 0.16530              | 0.1653           |
| * 134 Di-n-octylphthalate-d4      | 153       | 24.414 | 24.413 | (1.000) | 617649   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149       | 24.421 | 24.429 | (1.000) | 33313    | 0.20610              | 0.2061           |
| 74 Benzo(b)fluoranthene           | 252       | 25.227 | 25.242 | (0.969) | 34685    | 0.21619              | 0.2162           |
| 75 Benzo(k)fluoranthene           | 252       | 25.273 | 25.288 | (0.971) | 31535    | 0.19357              | 0.1936           |
| 76 Benzo(a)pyrene                 | 252       | 25.900 | 25.908 | (0.995) | 29387    | 0.20487              | 0.2049           |
| * 77 Perylene-d12                 | 264       | 26.024 | 26.024 | (1.000) | 494952   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 28.762 | 28.769 | (1.105) | 36004    | 0.19729              | 0.1973           |
| 79 Dibenzo(a,h)anthracene         | 278       | 28.777 | 28.800 | (1.106) | 31325    | 0.20675              | 0.2068           |
| 80 Benzo(g,h,i)perylene           | 276       | 29.562 | 29.577 | (1.136) | 32367    | 0.20494              | 0.2049           |
| 90 N-Nitrosodimethylamine         | 74        | 4.689  | 4.673  | (0.516) | 10506    | 0.38342              | 0.3834           |
| 91 Aniline                        | 93        | 8.543  | 8.543  | (0.940) | 22290    | 0.37155              | 0.3715           |
| 93 Benzidine                      | 184       | 20.945 | 20.945 | (0.897) | 17929    | 0.25078              | 0.2508           |
| 103 Pyridine                      | 79        | 4.743  | 4.704  | (0.522) | 15845    | 0.37653              | 0.3765           |
| 105 1-methylnaphthalene           | 142       | 13.235 | 13.235 | (1.144) | 18195    | 0.20575              | 0.2057           |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 16.622 | 16.630 | (1.094) | 15446    | 0.15726              | 0.1573           |

| Compounds                     | QUANT SIG |  | CONCENTRATIONS |        |         |          |                      |                  |
|-------------------------------|-----------|--|----------------|--------|---------|----------|----------------------|------------------|
|                               | MASS      |  | RT             | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| =====                         | =====     |  | =====          | =====  | =====   | =====    | =====                | =====            |
| 187 Total Benzofluoranthenes  | 252       |  | 25.227         | 25.288 | (0.969) | 63258    | 0.40836              | 0.4084           |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 15.928         | 15.935 | (1.048) | 4346     | 0.15649              | 0.1565           |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 22-MAR-2023  
 Lab File ID: NT1003222304.D Calibration Time: 17:42  
 Lab Smp Id: SLC0397-LCV1  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 122478   | 61239      | 244956  | 142022 | 15.96  |
| 27 Naphthalene-d8     | 459261   | 229631     | 918522  | 504872 | 9.93   |
| 42 Acenaphthene-d10   | 264106   | 132053     | 528212  | 275869 | 4.45   |
| 59 Phenanthrene-d10   | 503255   | 251628     | 1006510 | 499862 | -0.67  |
| 69 Chrysene-d12       | 437735   | 218868     | 875470  | 433161 | -1.04  |
| 134 Di-n-octylphthala | 700191   | 350096     | 1400382 | 617649 | -11.79 |
| 77 Perylene-d12       | 499049   | 249525     | 998098  | 494952 | -0.82  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.08     | 8.58     | 9.58  | 9.09   | 0.00  |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.57  | 0.00  |
| 42 Acenaphthene-d10   | 15.19    | 14.69    | 15.69 | 15.19  | 0.00  |
| 59 Phenanthrene-d10   | 18.25    | 17.75    | 18.75 | 18.25  | -0.04 |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.35  | 0.00  |
| 134 Di-n-octylphthala | 24.41    | 23.91    | 24.91 | 24.41  | 0.00  |
| 77 Perylene-d12       | 26.02    | 25.52    | 26.52 | 26.02  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222304.D

Lab ID: SLC0397-LCV1  
nt10.i, 20230322.b\ABN.m, 22-MAR-2023 18:59

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND     |
|-------|---------|---------|--------------|
| 0.950 | 0.960   | -0.0095 | Benzoic acid |

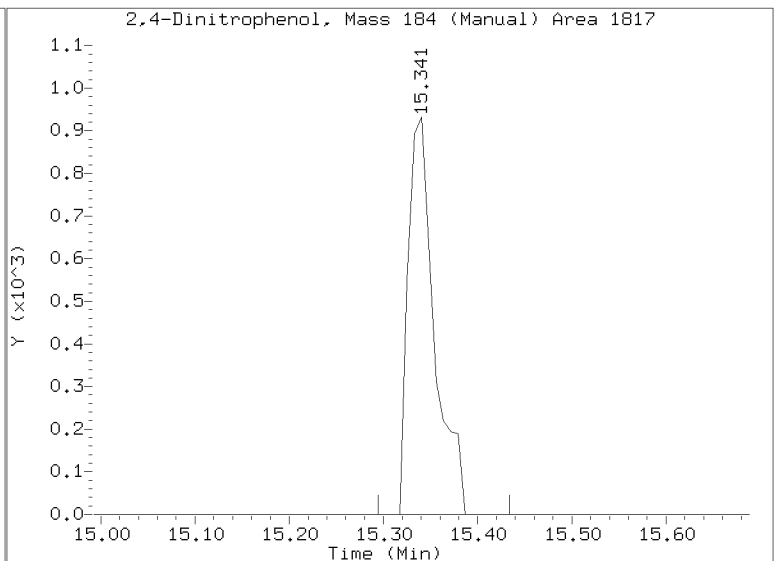
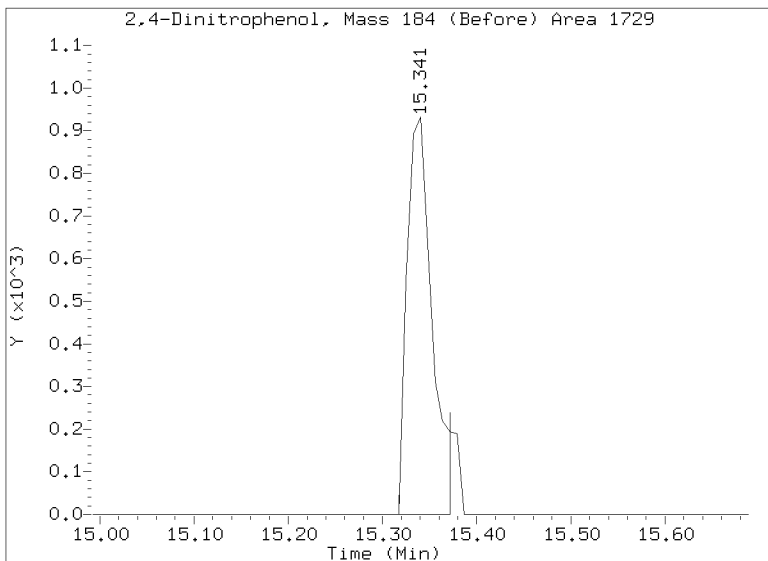
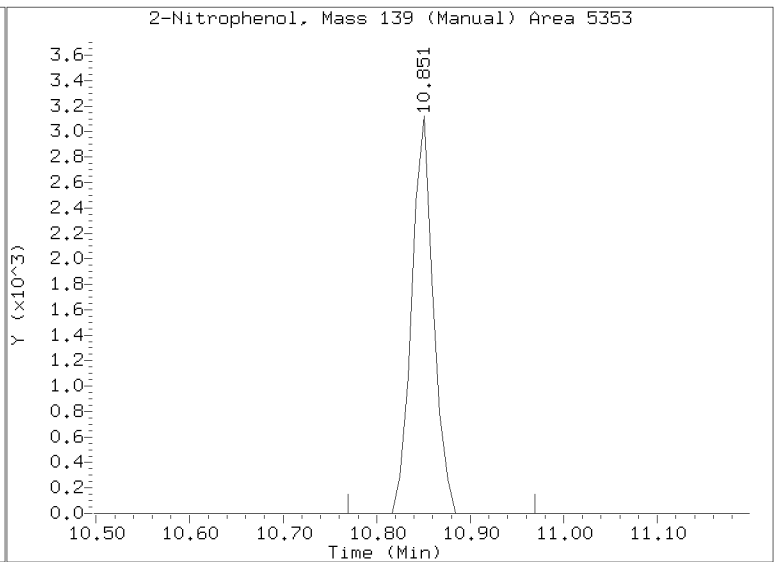
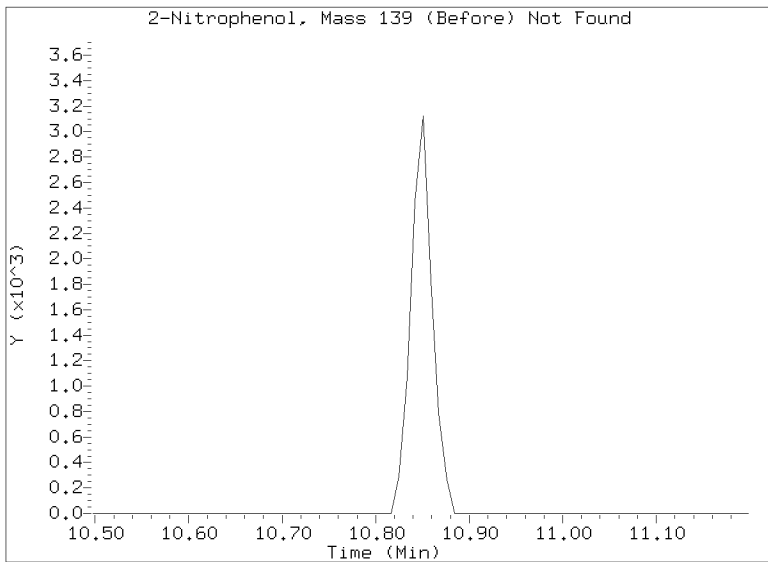
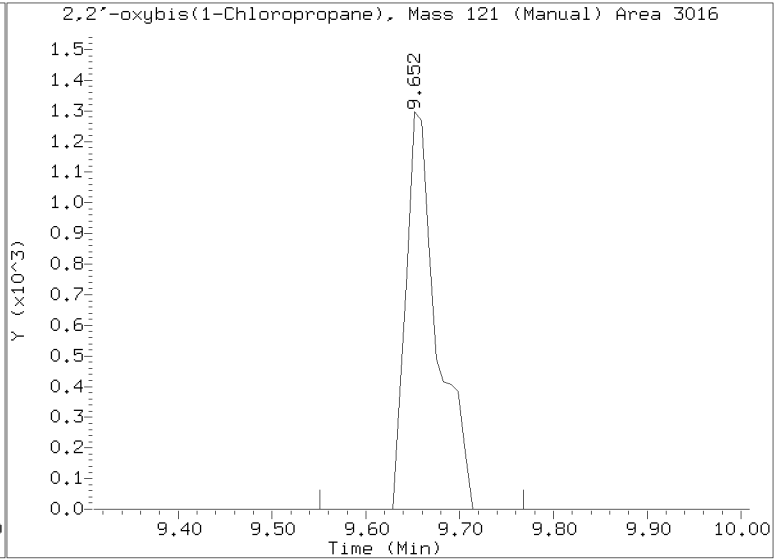
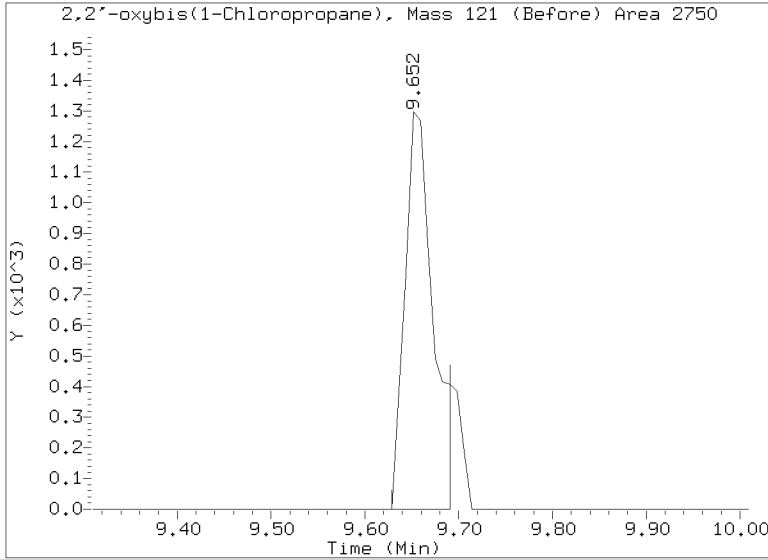
RRT check based on Ccal File: NT1003222302.D

On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222304.D  
Injection Date: 22-MAR-2023 18:59  
Lab ID:SLC0397-LCV1 Client ID:  
Report Date: 03/25/2023 07:55





**LOW-CONCENTRATION  
CONTINUING CALIBRATION CHECK  
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT10

Calibration: GC00046

Lab File ID: NT1003222319.D

Calibration Date: 03/15/2023

Sequence: SLC0397

Injection Date: 03/23/23

Lab Sample ID: SLC0397-LCV2

Injection Time: 04:30

Sequence Name: ABN 0.2

| COMPOUND                    | TYPE | CONC. (ug/mL) |       | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|-----------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|-------|
|                             |      | STD           | CCV   | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Phenol                      | A    | 0.20000       | 0.2   | 1.6490140             | 1.5803650 |     | -4.2         | +/-50 |
| 4-Methylphenol              | A    | 0.20000       | 0.2   | 1.2665770             | 1.1884300 |     | -6.2         | +/-50 |
| Naphthalene                 | A    | 0.20000       | 0.2   | 1.0596590             | 1.1016750 |     | 4.0          | +/-50 |
| 2-Methylnaphthalene         | A    | 0.20000       | 0.2   | 0.7647129             | 0.8169998 |     | 6.8          | +/-50 |
| Acenaphthylene              | A    | 0.20000       | 0.2   | 1.9964080             | 2.0742080 |     | 3.9          | +/-50 |
| Dimethylphthalate           | A    | 0.20000       | 0.2   | 1.2994310             | 1.3793230 |     | 6.2          | +/-50 |
| Acenaphthene                | A    | 0.20000       | 0.2   | 1.2333460             | 1.2731160 |     | 3.2          | +/-50 |
| Dibenzofuran                | A    | 0.20000       | 0.2   | 1.8187540             | 1.8597350 |     | 2.3          | +/-50 |
| Fluorene                    | A    | 0.20000       | 0.2   | 1.4308680             | 1.5148080 |     | 5.9          | +/-50 |
| Phenanthrene                | A    | 0.20000       | 0.2   | 1.0907130             | 1.1433140 |     | 4.8          | +/-50 |
| Anthracene                  | A    | 0.20000       | 0.2   | 1.0462760             | 1.0498950 |     | 0.3          | +/-50 |
| Fluoranthene                | A    | 0.20000       | 0.2   | 1.6072690             | 1.4474660 |     | -9.9         | +/-50 |
| Pyrene                      | A    | 0.20000       | 0.2   | 1.6487720             | 1.4763360 |     | -10.5        | +/-50 |
| Butylbenzylphthalate        | A    | 0.20000       | 0.2   | 0.5292894             | 0.6246278 |     | 7.9          | +/-50 |
| Benzo(a)anthracene          | A    | 0.20000       | 0.2   | 1.4118770             | 1.5151300 |     | 7.3          | +/-50 |
| Chrysene                    | A    | 0.20000       | 0.2   | 1.3793780             | 1.4094840 |     | 2.2          | +/-50 |
| bis(2-Ethylhexyl)phthalate  | A    | 0.20000       | 0.2   | 0.5248968             | 0.5476900 |     | -6.4         | +/-50 |
| Benzo(a)fluoranthene, Total | A    | 0.40000       | 0.4   | 1.2519020             | 1.3398540 |     | 7.0          | +/-50 |
| Benzo(a)pyrene              | A    | 0.20000       | 0.2   | 1.1592370             | 1.2502590 |     | 7.9          | +/-50 |
| Indeno(1,2,3-cd)pyrene      | A    | 0.20000       | 0.2   | 1.4748270             | 1.4900950 |     | 1.0          | +/-50 |
| Dibenzo(a,h)anthracene      | A    | 0.20000       | 0.2   | 1.2244340             | 1.2708620 |     | 3.8          | +/-50 |
| Benzo(g,h,i)perylene        | A    | 0.20000       | 0.2   | 1.2763410             | 1.2105250 |     | -5.2         | +/-50 |
| 2-Fluorophenol              | A    | 0.30000       | 0.302 | 1.2096460             | 1.2182780 |     | 0.7          | +/-50 |
| Phenol-d5                   | A    | 0.30000       | 0.289 | 1.5868760             | 1.5283030 |     | -3.7         | +/-50 |
| 2-Chlorophenol-d4           | A    | 0.30000       | 0.302 | 1.3550800             | 1.3643850 |     | 0.7          | +/-50 |
| 1,2-Dichlorobenzene-d4      | A    | 0.20000       | 0.207 | 0.9731556             | 1.0084630 |     | 3.6          | +/-50 |
| Nitrobenzene-d5             | A    | 0.20000       | 0.194 | 0.4037447             | 0.3919219 |     | -2.9         | +/-50 |
| 2-Fluorobiphenyl            | A    | 0.20000       | 0.213 | 1.5822890             | 1.6840690 |     | 6.4          | +/-50 |
| 2,4,6-Tribromophenol        | A    | 0.30000       | 0.282 | 0.1585901             | 0.1768852 |     | -6.0         | +/-50 |
| p-Terphenyl-d14             | A    | 0.20000       | 0.199 | 1.2381950             | 1.2291820 |     | -0.7         | +/-50 |

\* Values outside of QC limits



Data File: \\target\share\chem3\nt10,1\20230322,16\NT1003222319.D

Date: 23-MAR-2023 04:30

Client ID:

Sample Info: SLC0397-LCW2

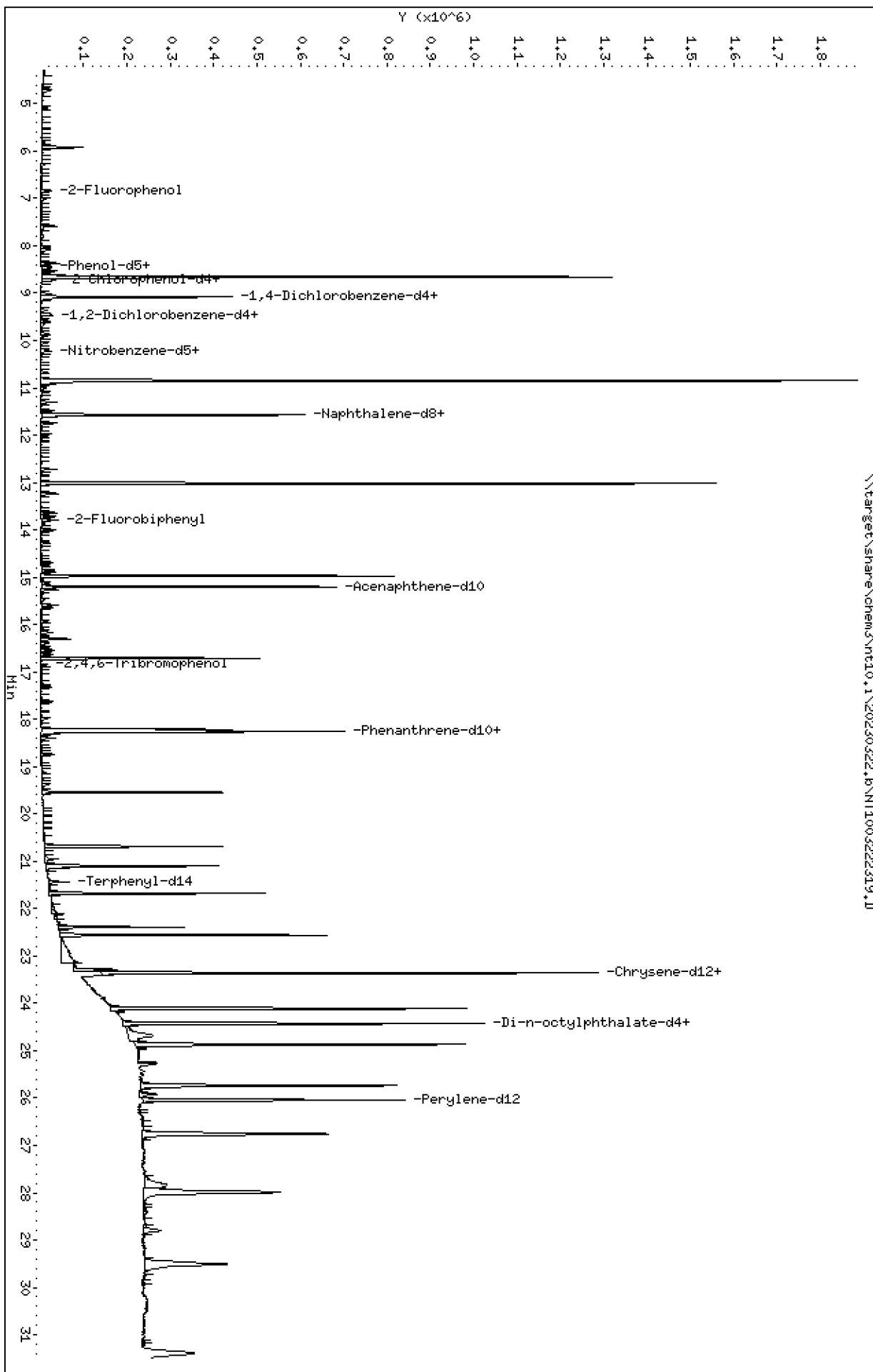
Column phase: ZB-5msi

Instrument: nt10,1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

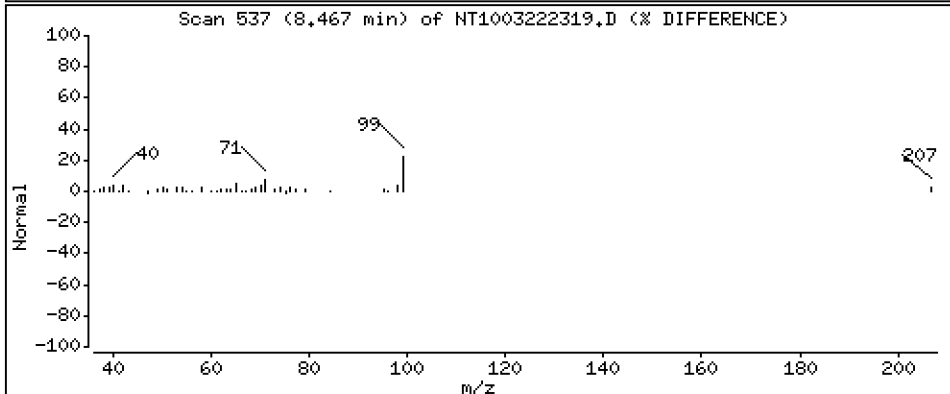
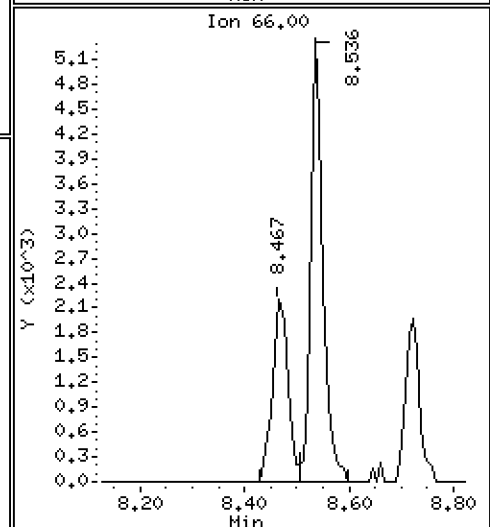
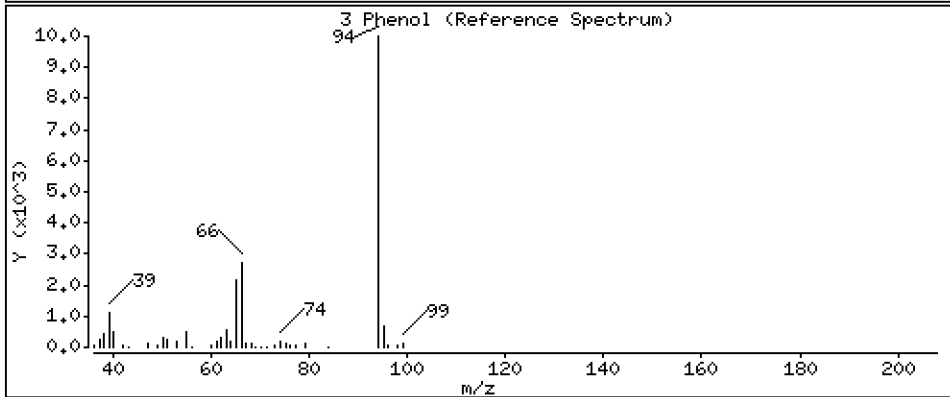
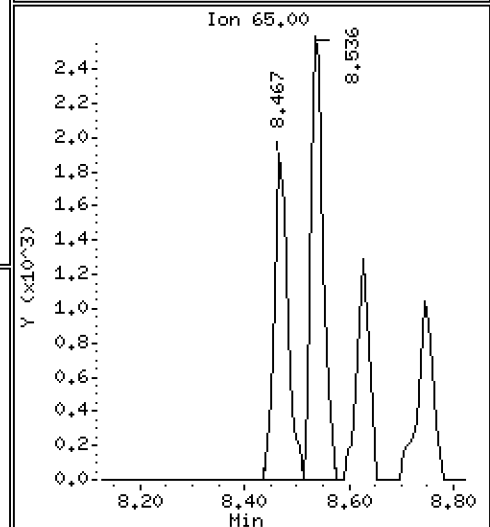
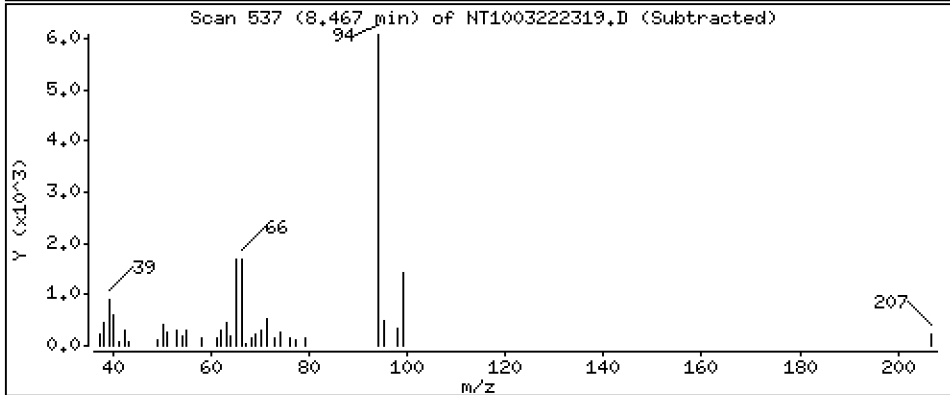
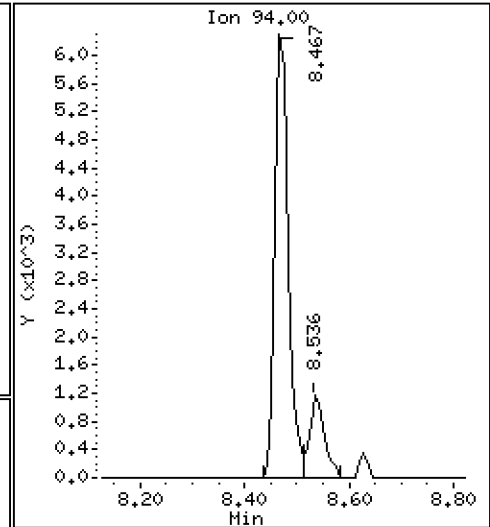
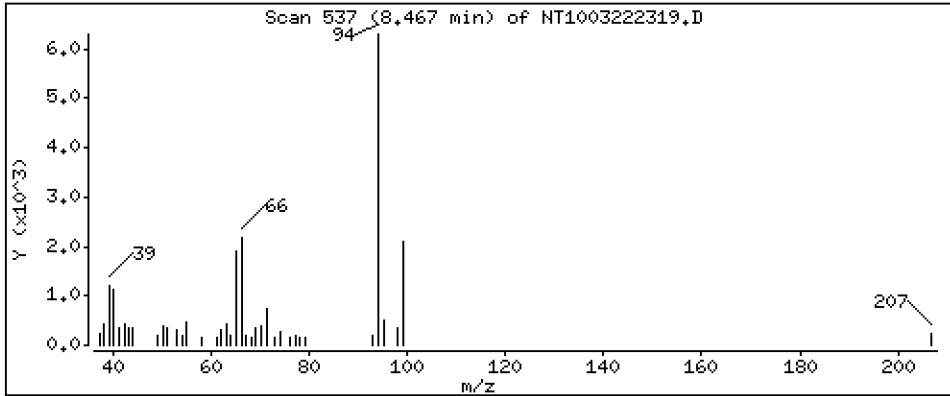
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 0.1917 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

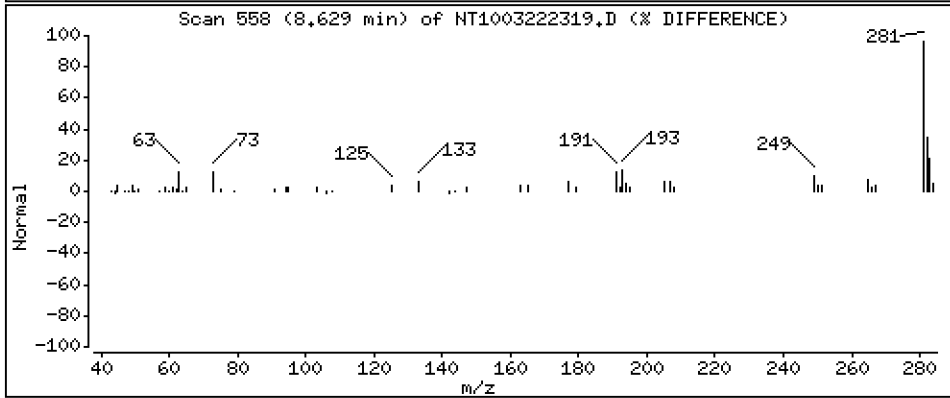
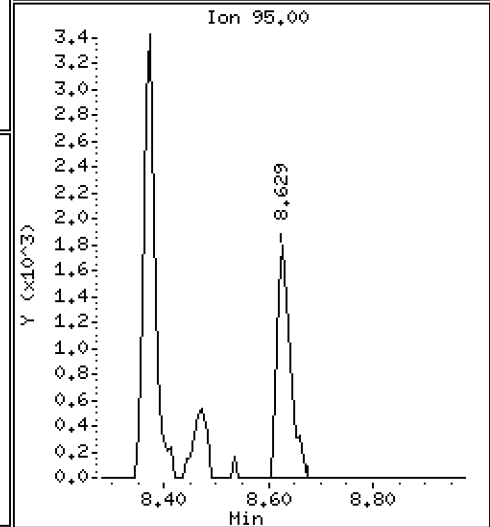
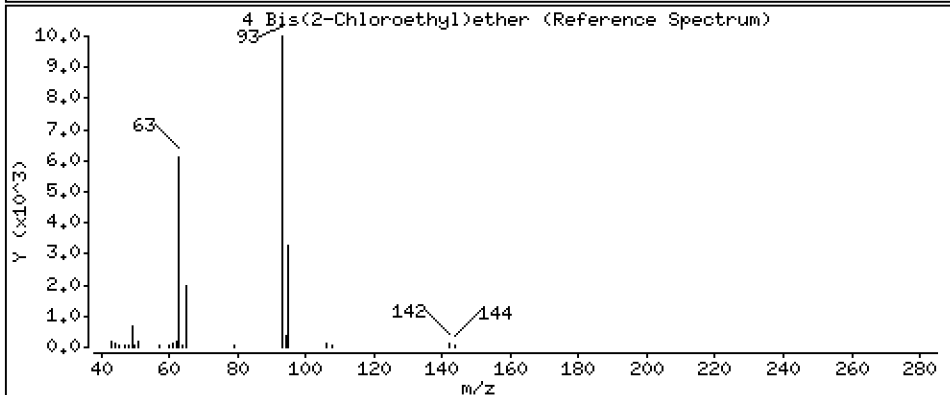
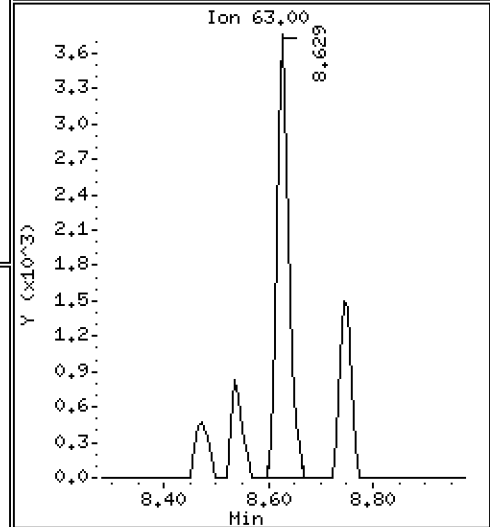
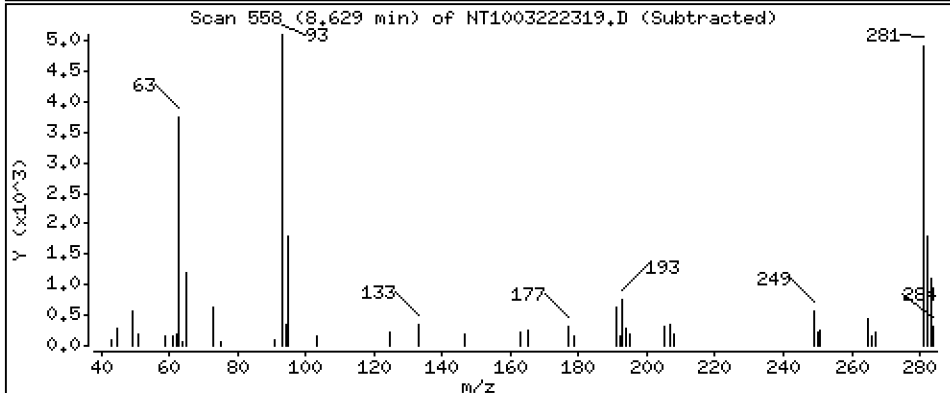
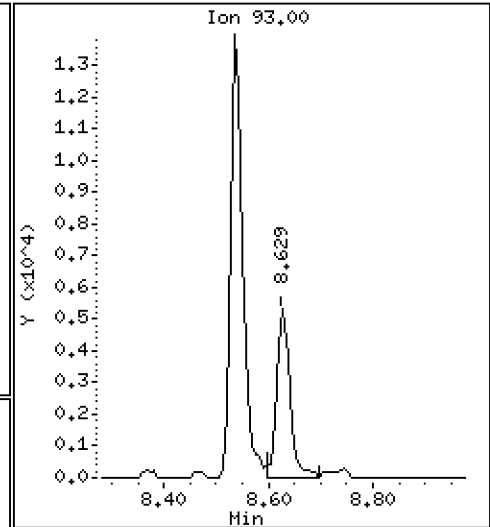
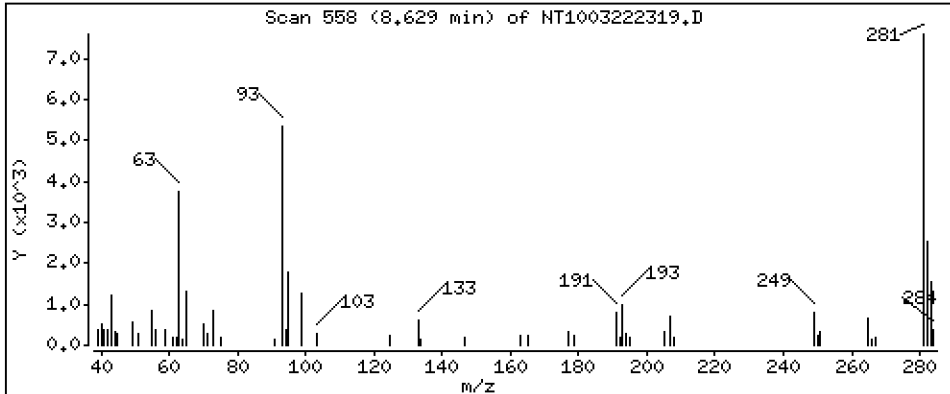
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 0.2169 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

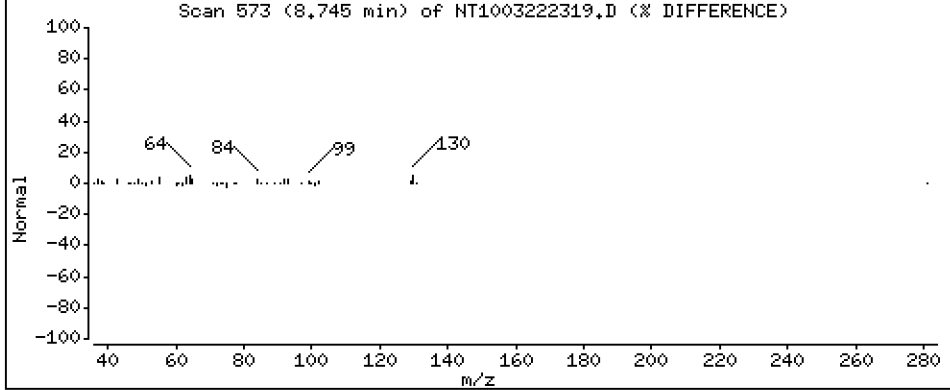
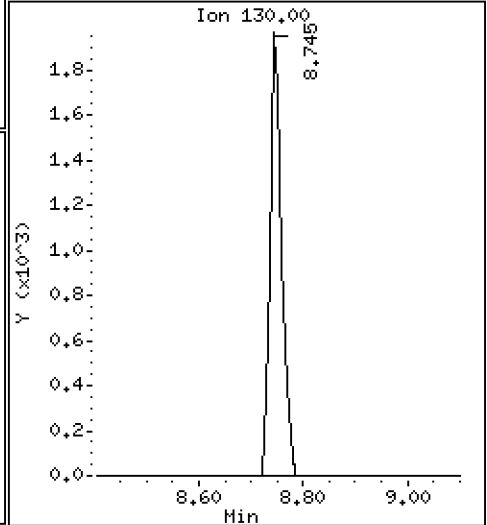
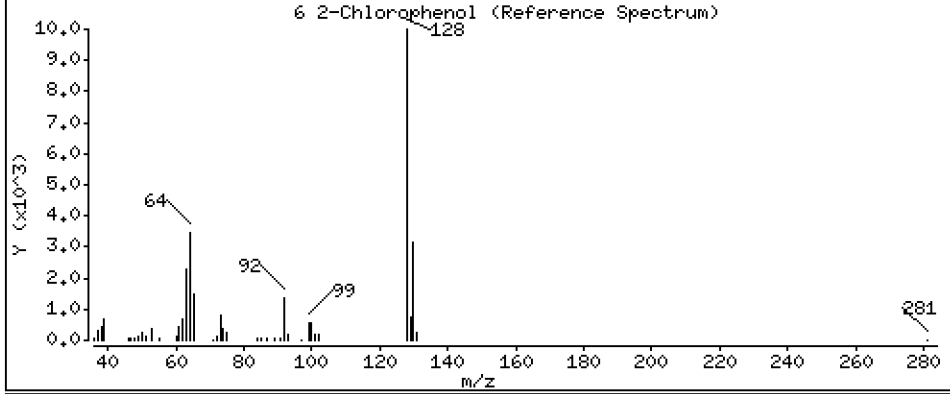
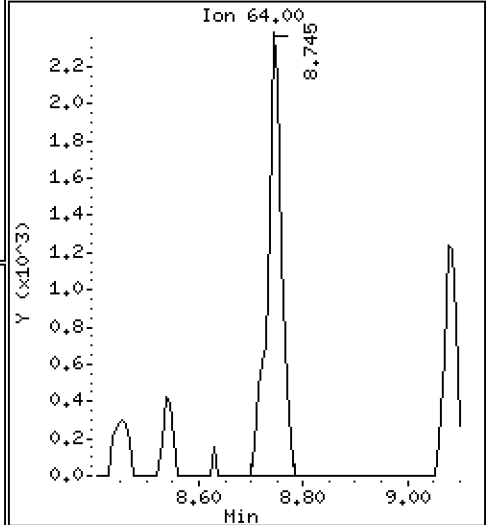
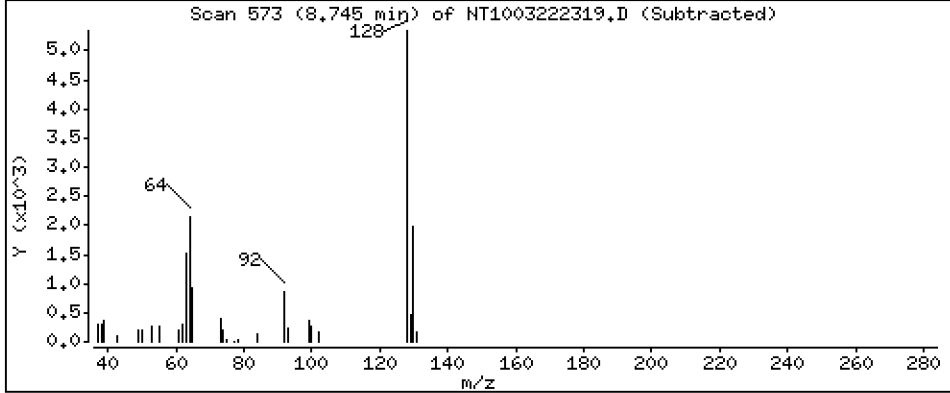
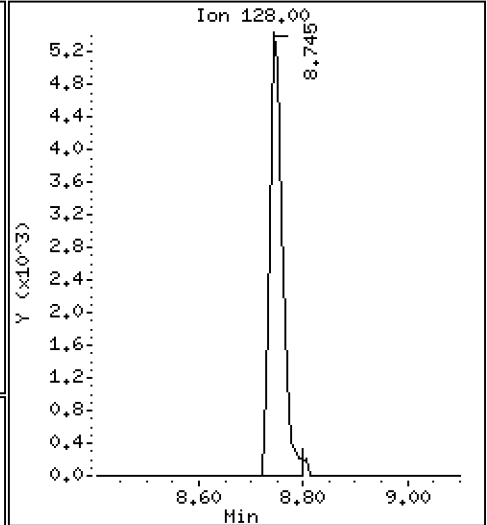
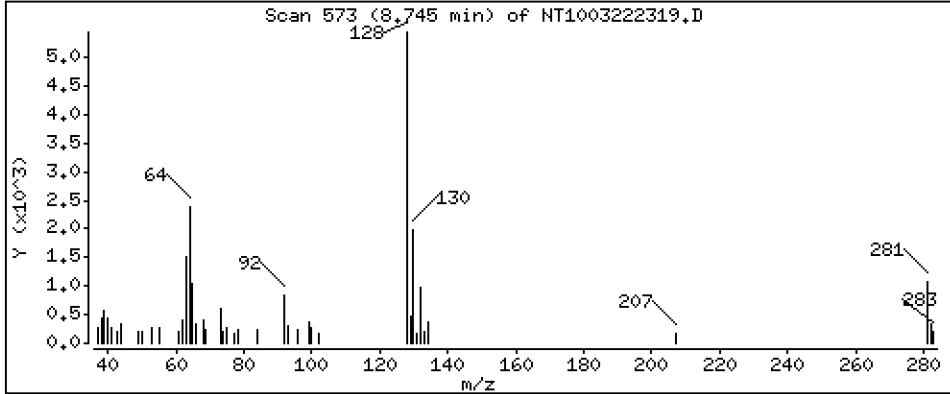
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,1931 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

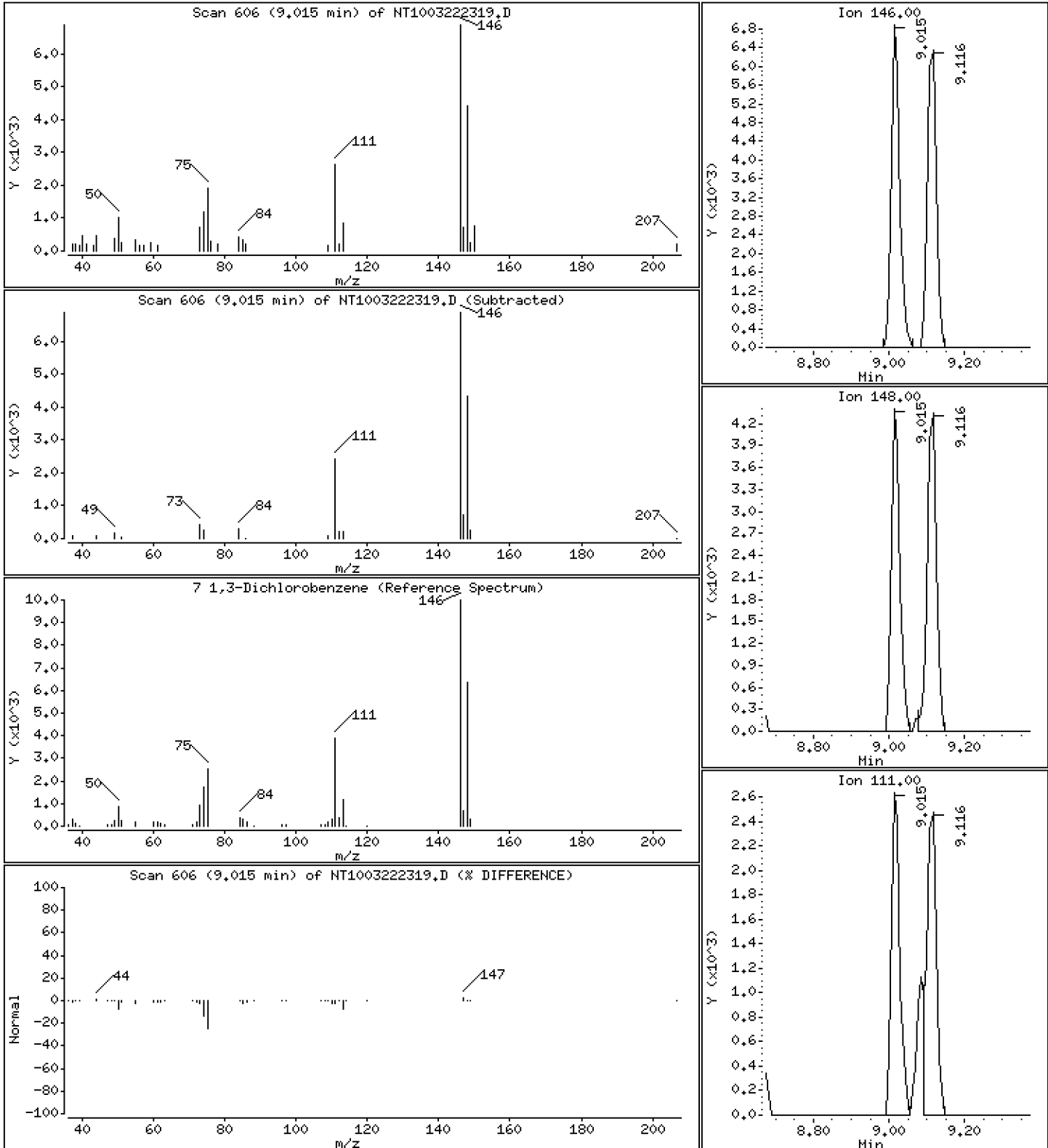
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.2084 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

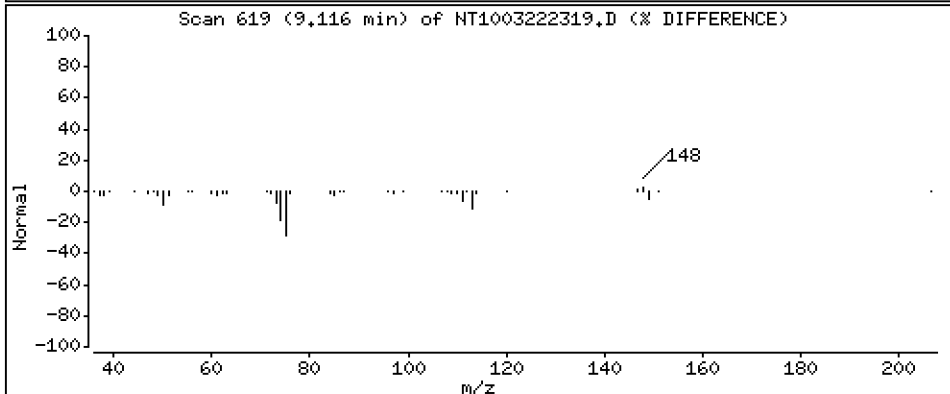
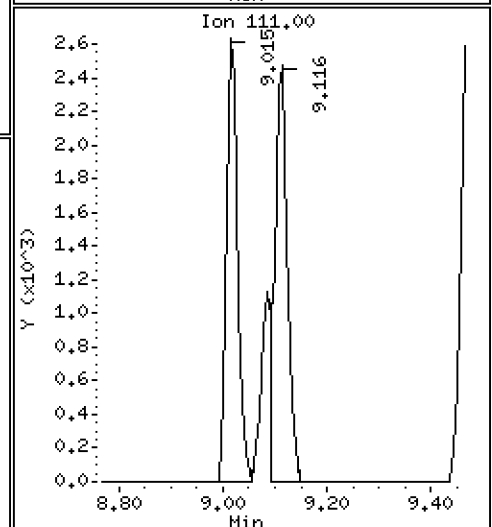
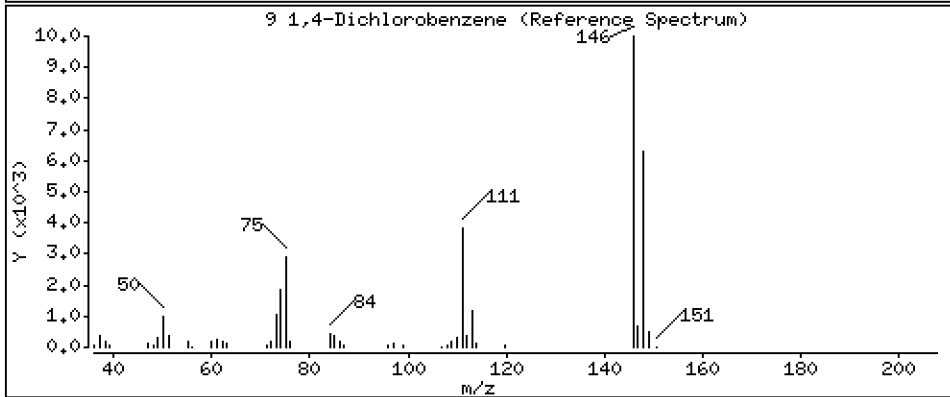
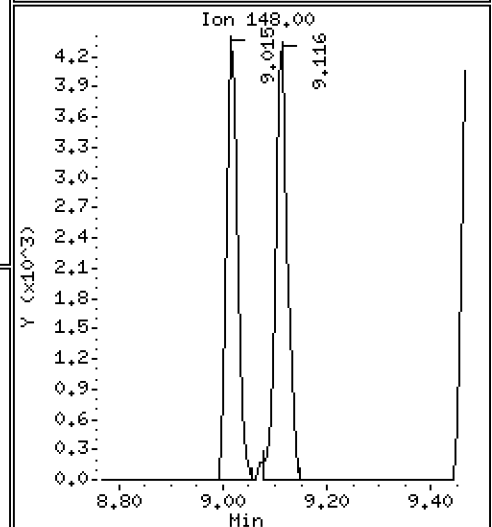
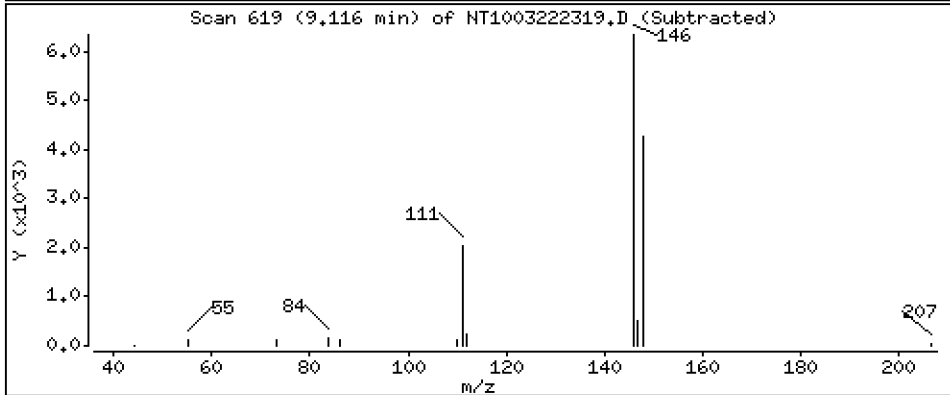
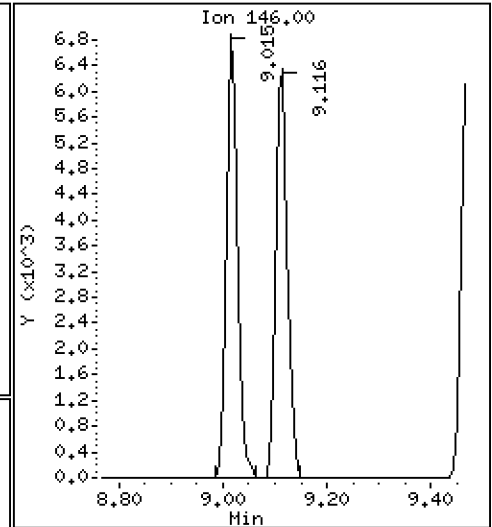
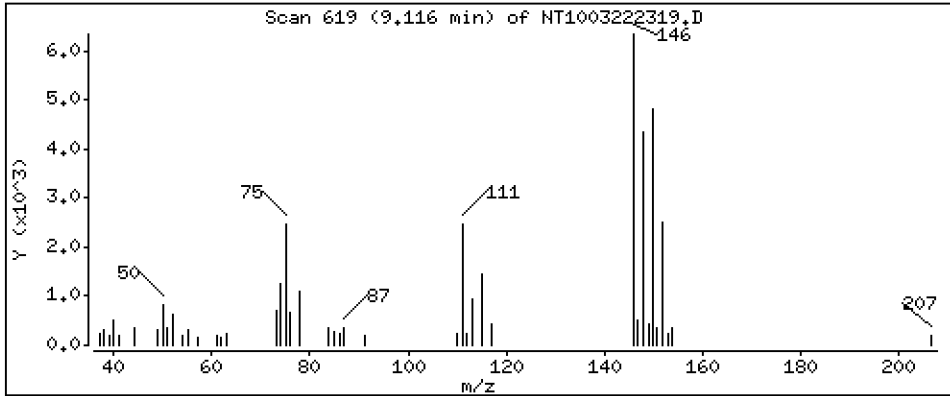
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,1999 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

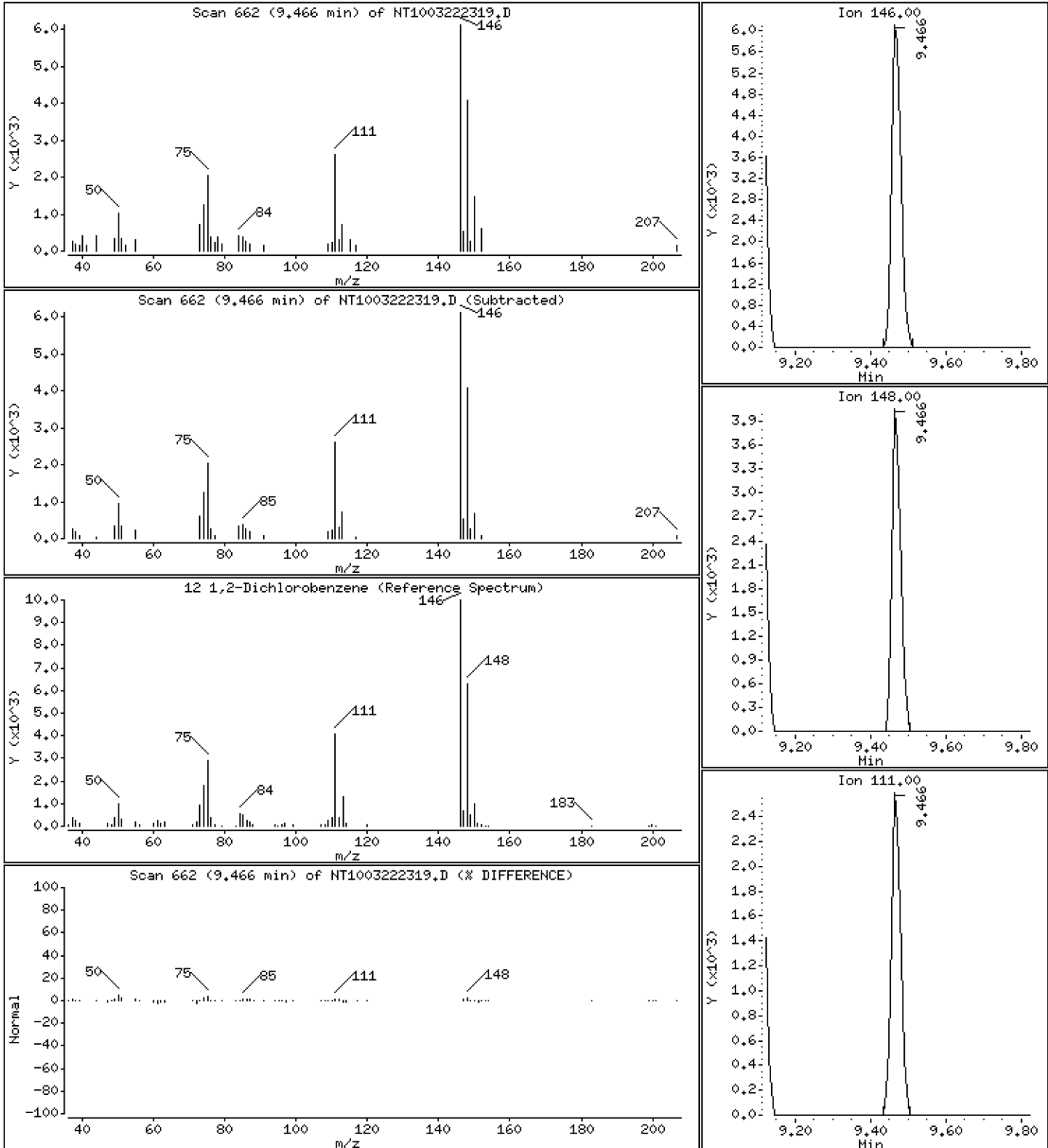
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2087 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

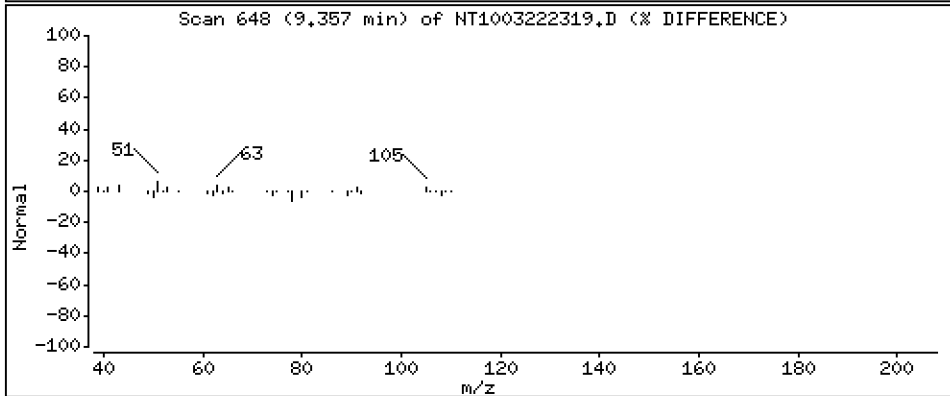
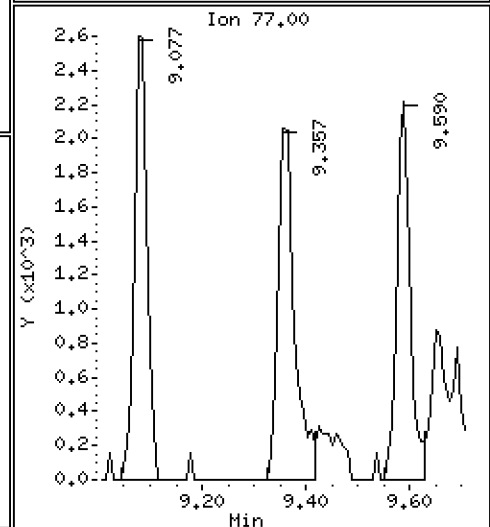
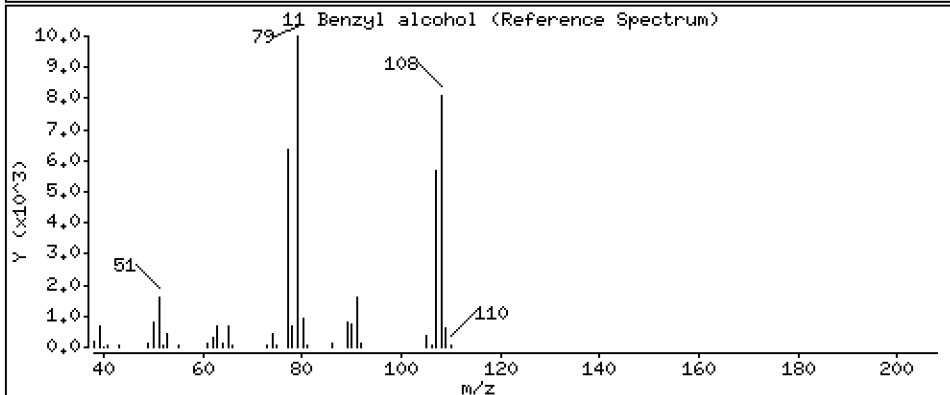
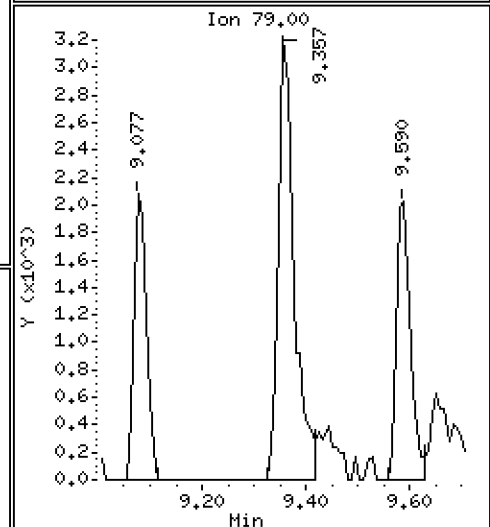
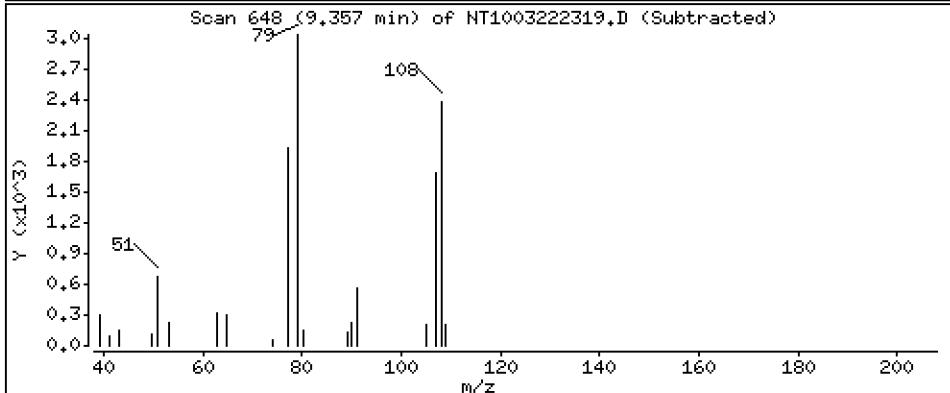
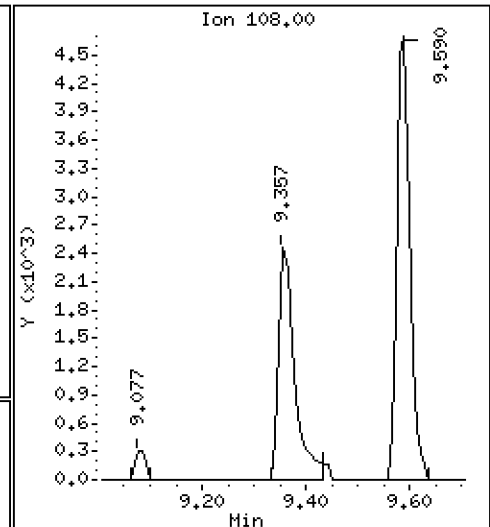
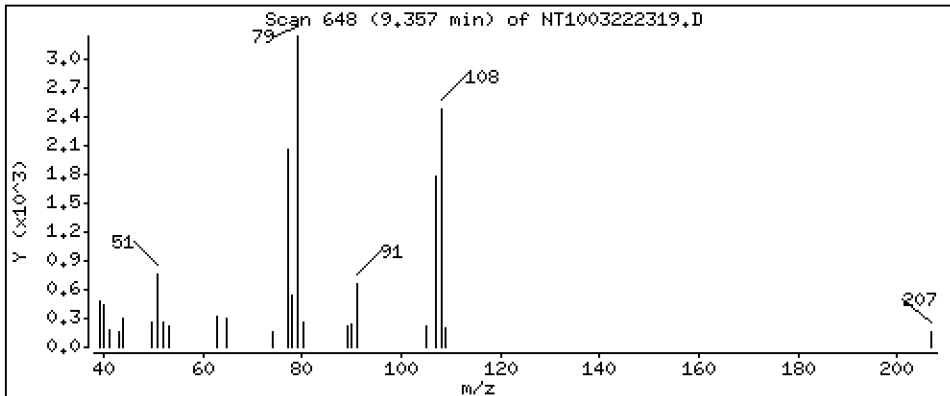
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1930 ug/mL





Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

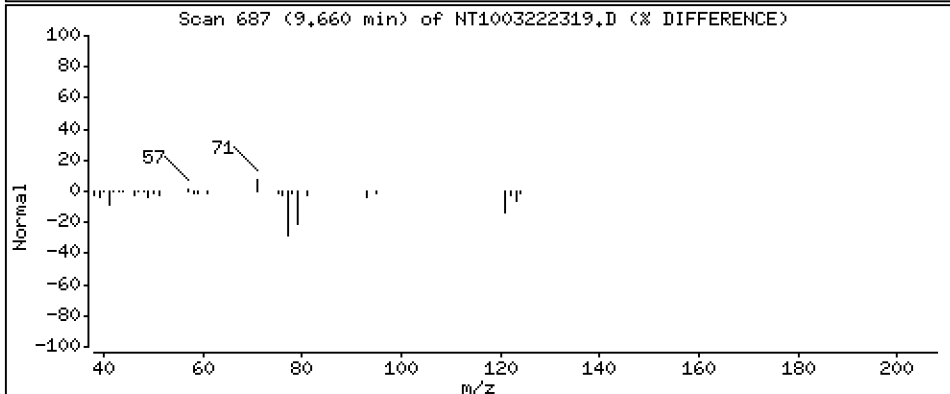
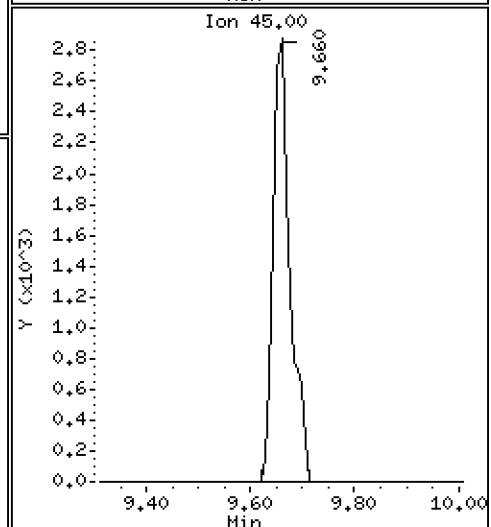
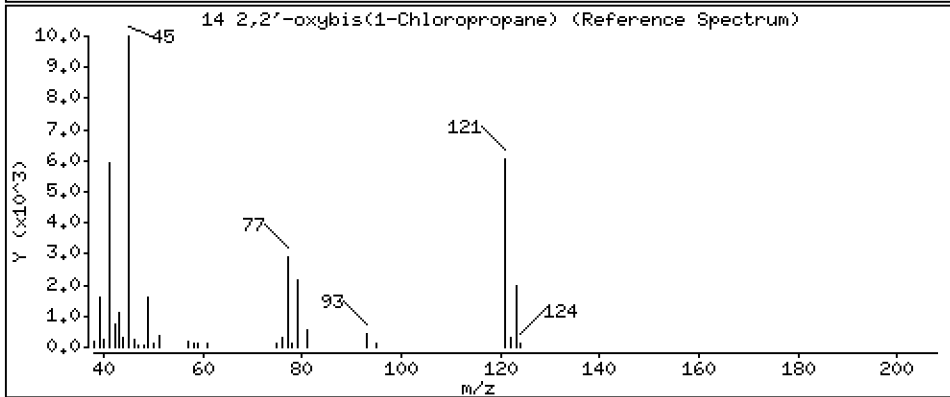
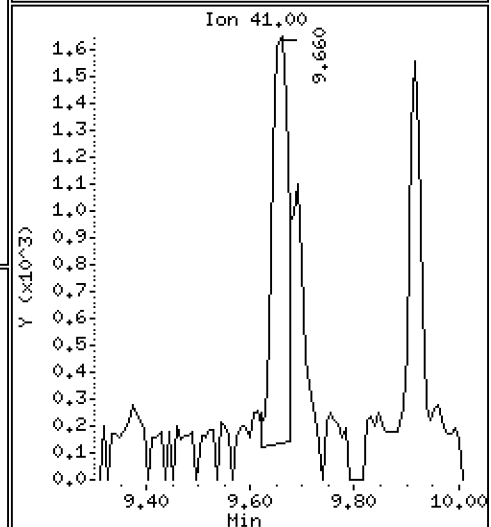
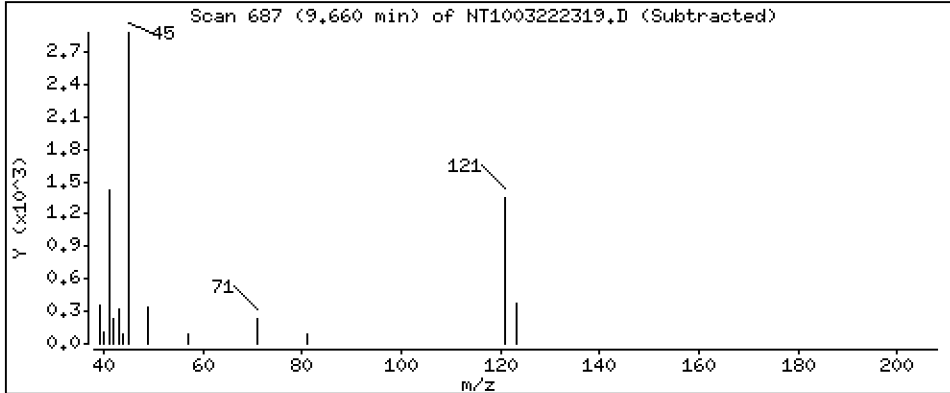
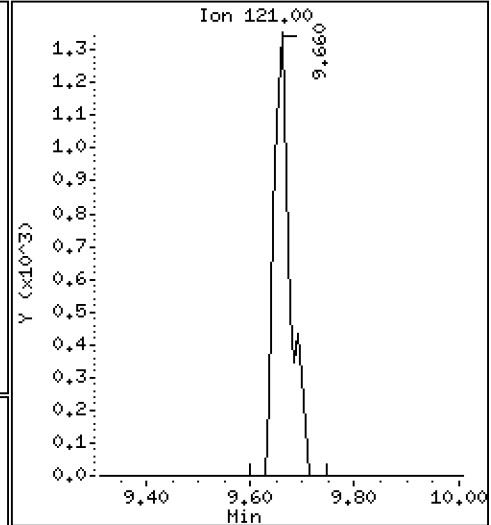
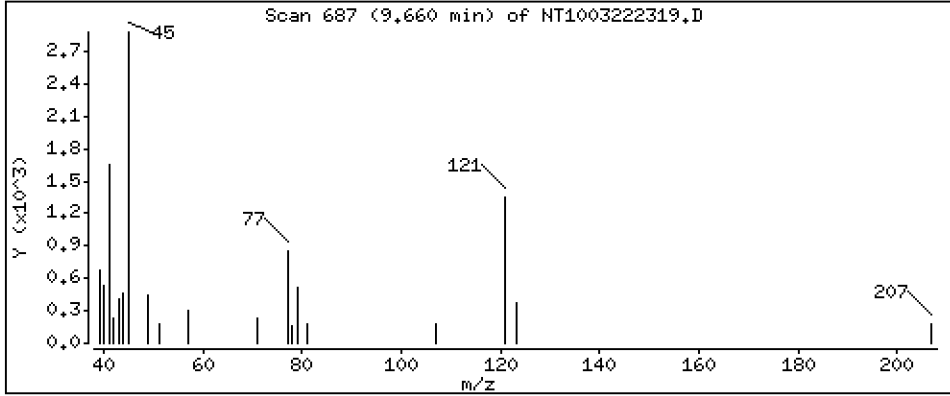
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

14 2,2'-oxybis(1-Chloropropane)

Concentration: 0.2002 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

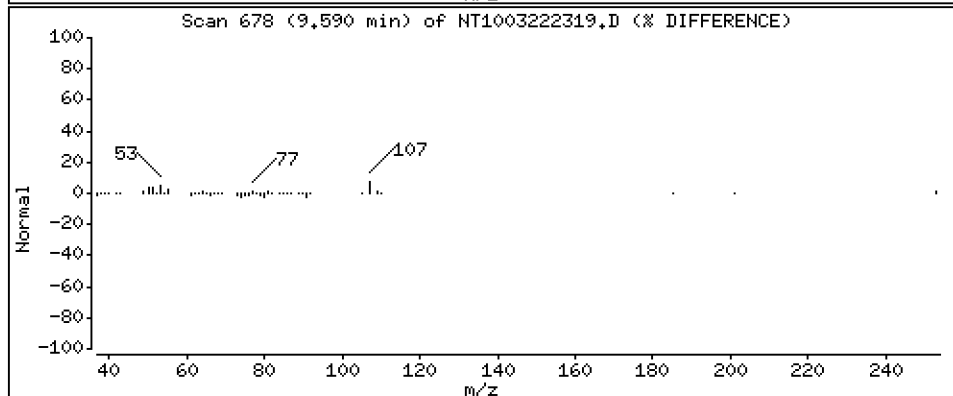
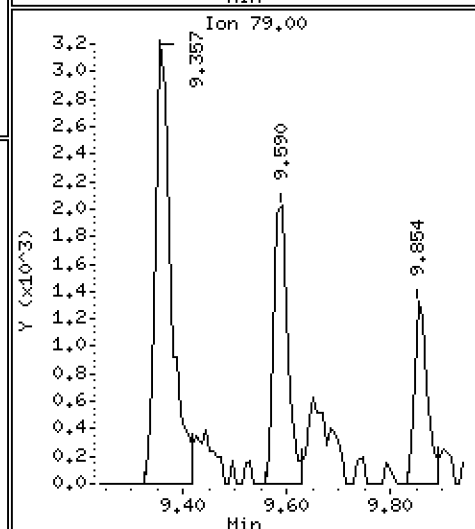
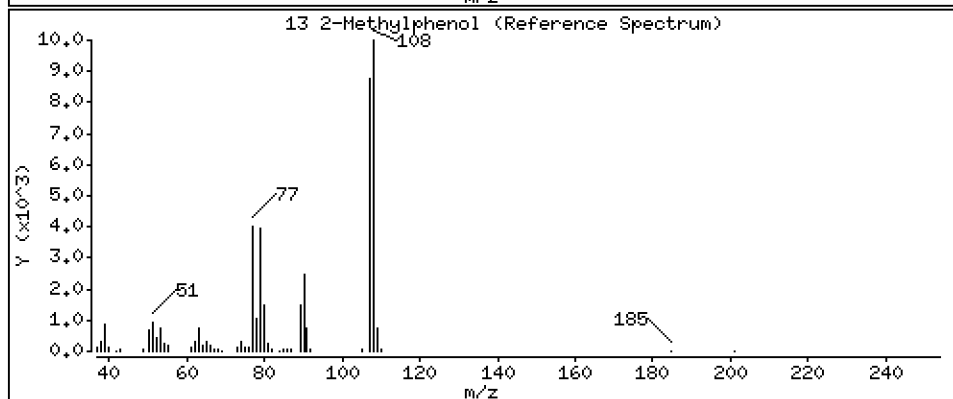
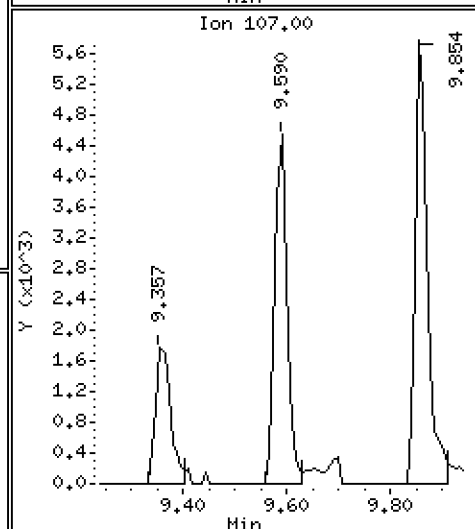
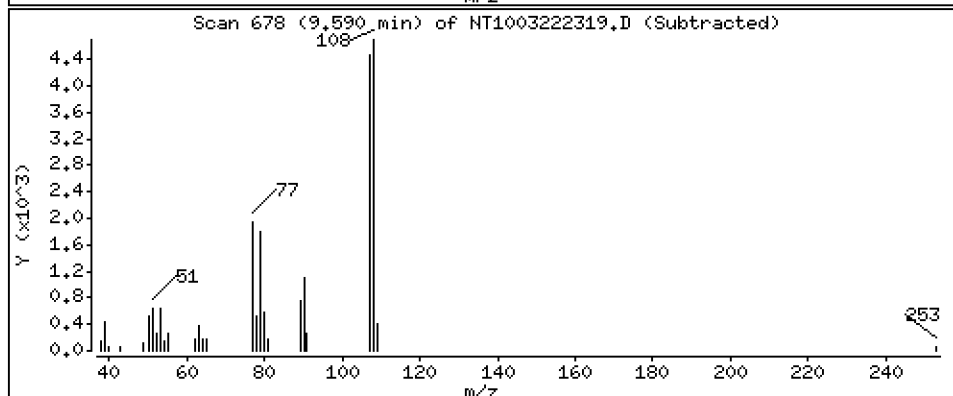
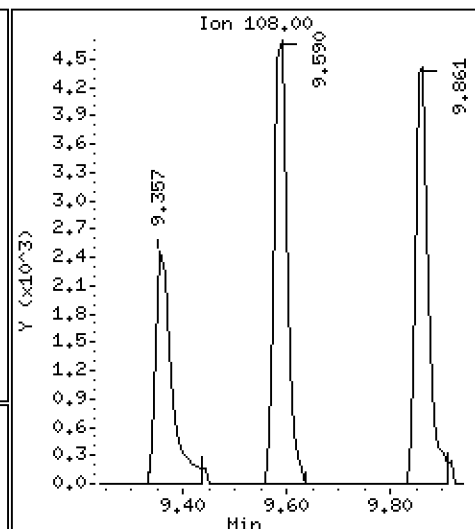
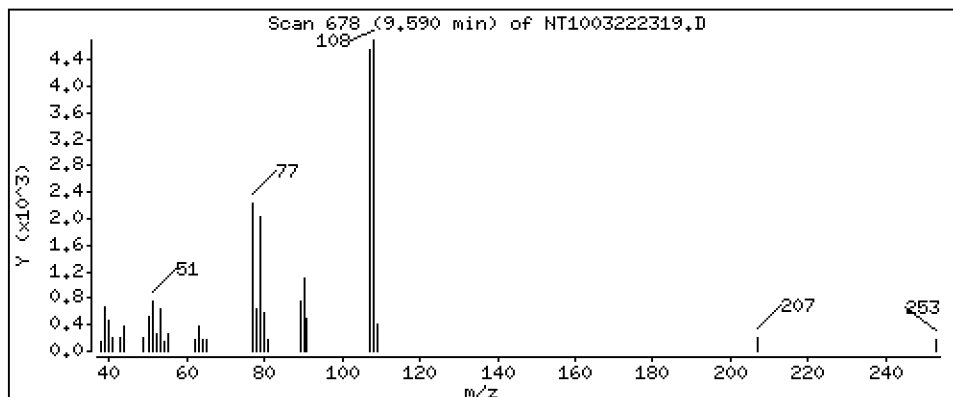
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 0,1886 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

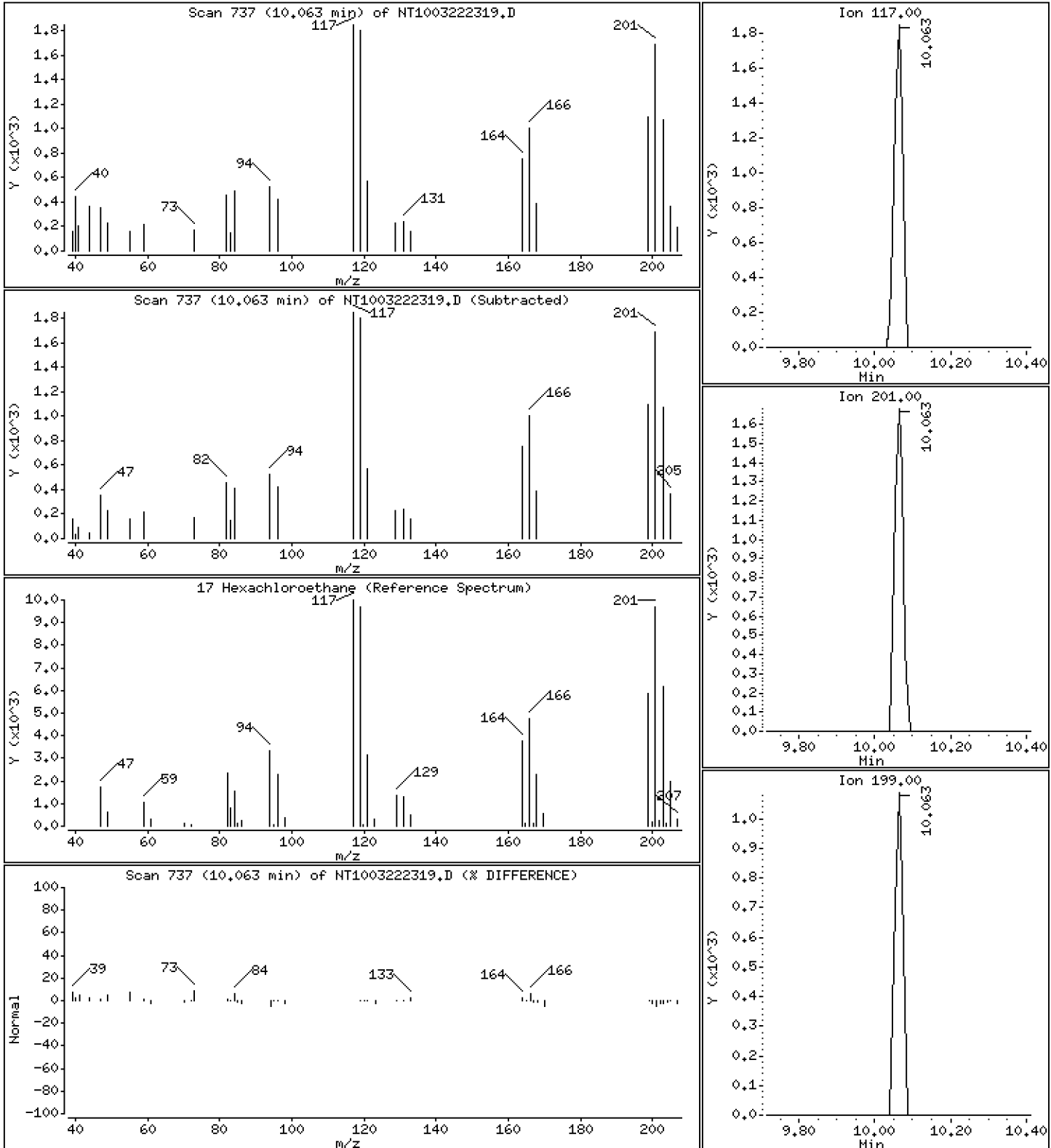
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 0.1339 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

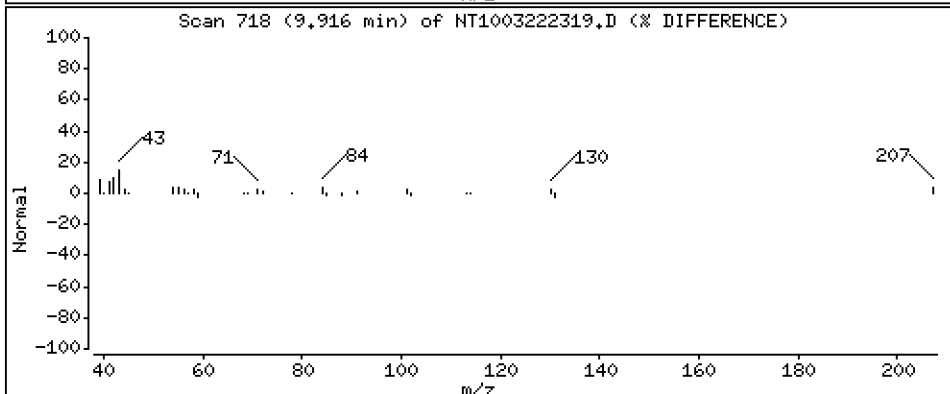
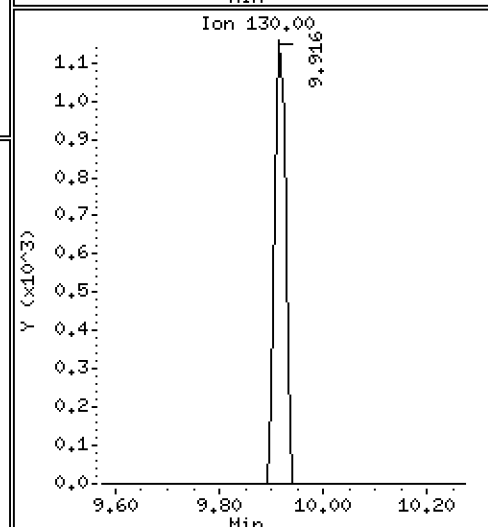
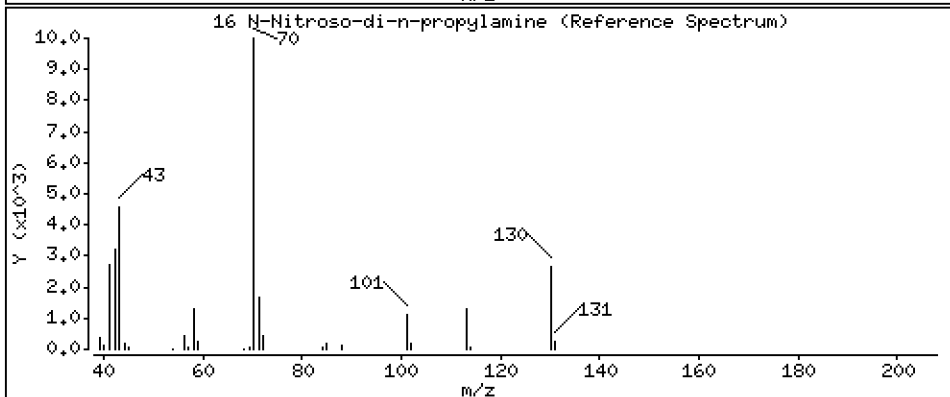
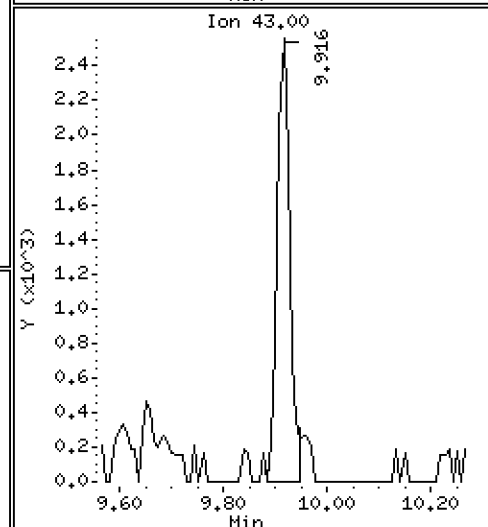
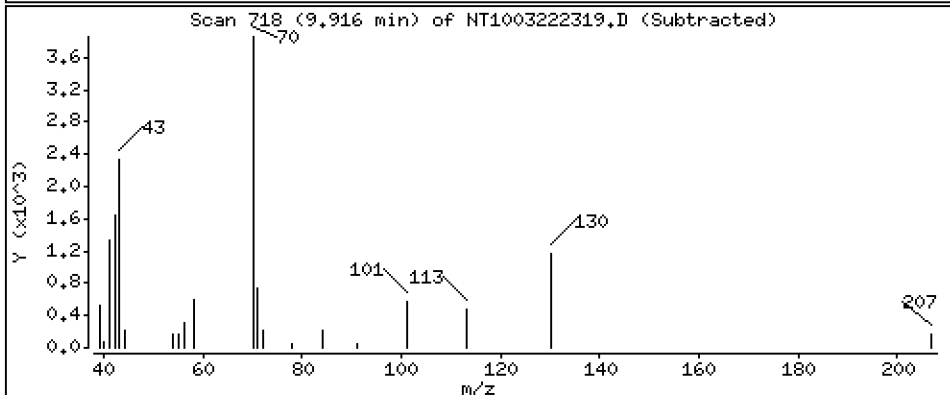
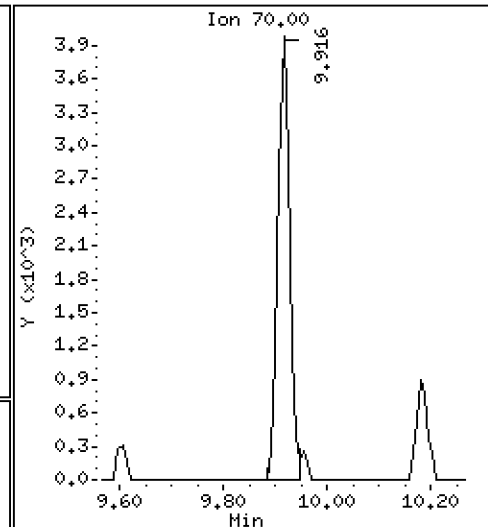
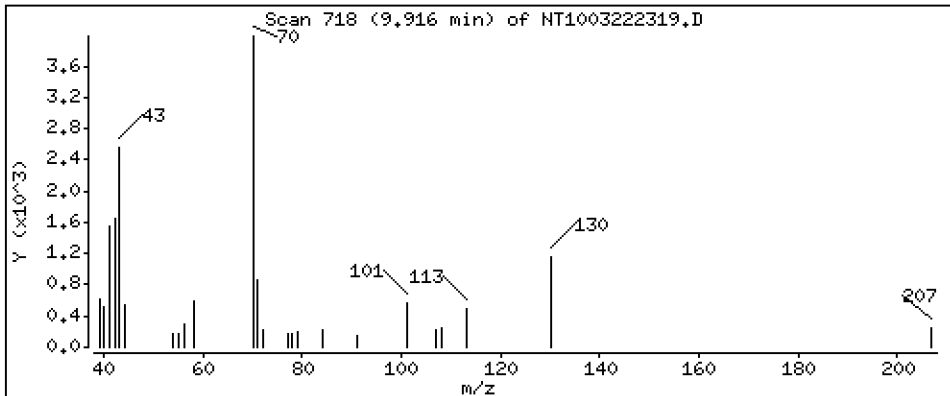
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,1829 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

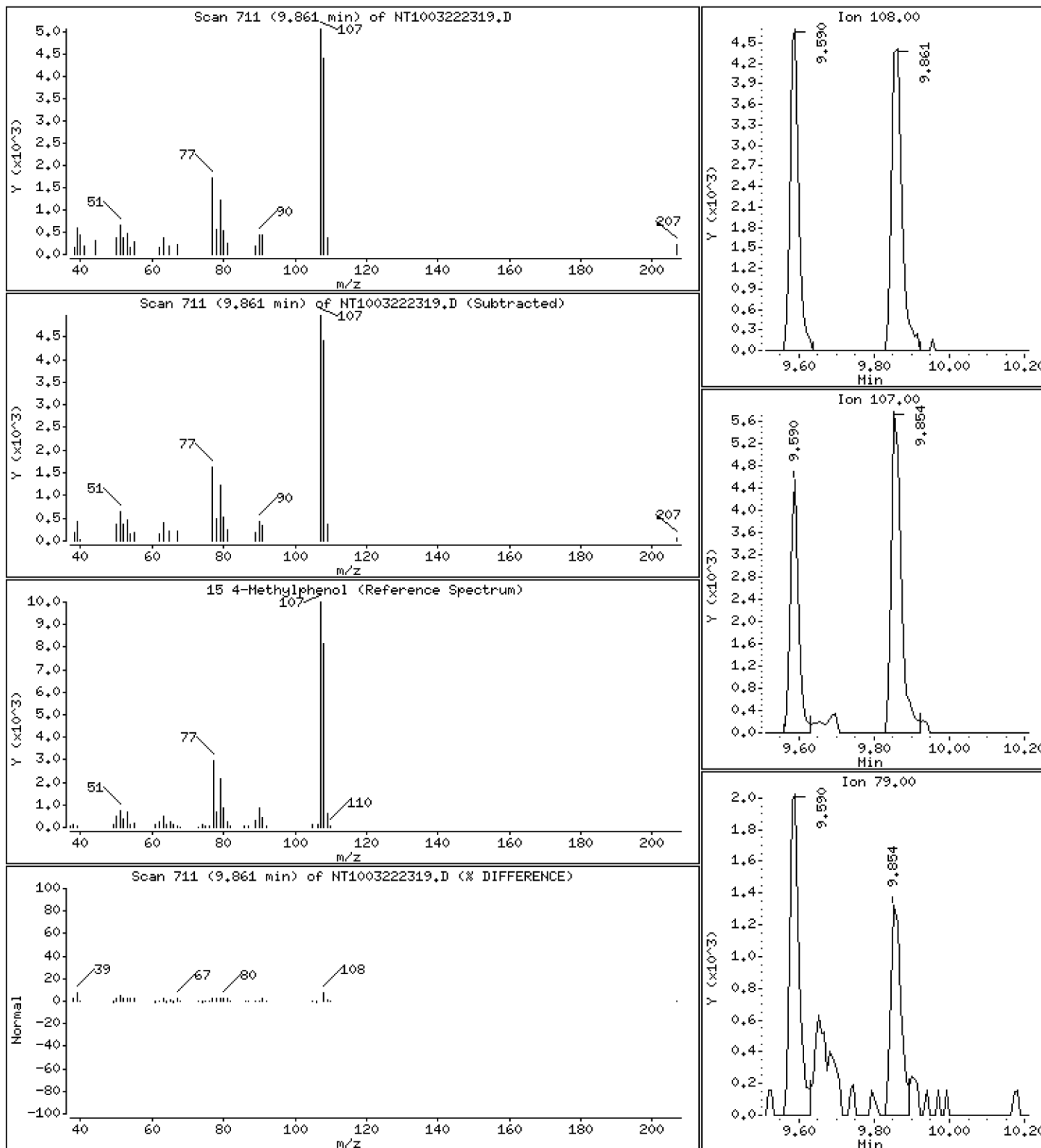
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,1877 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

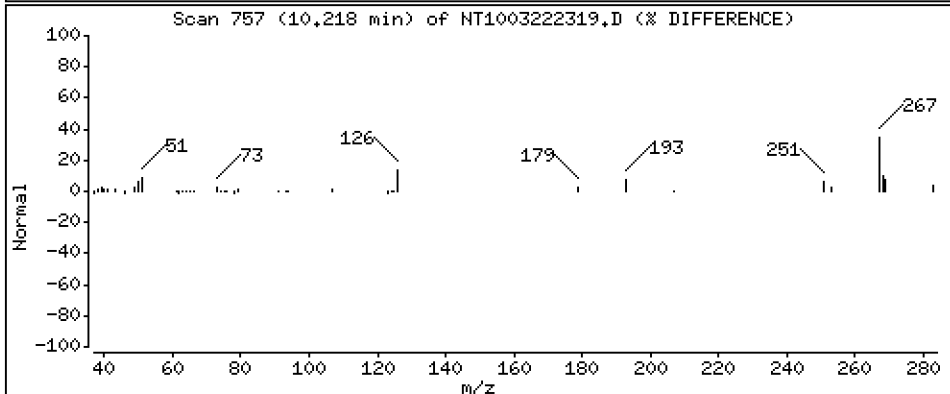
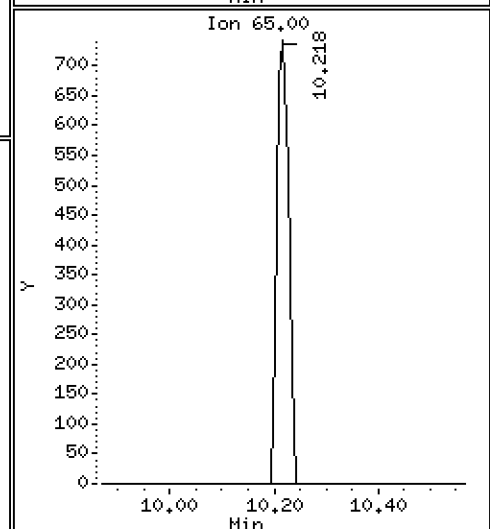
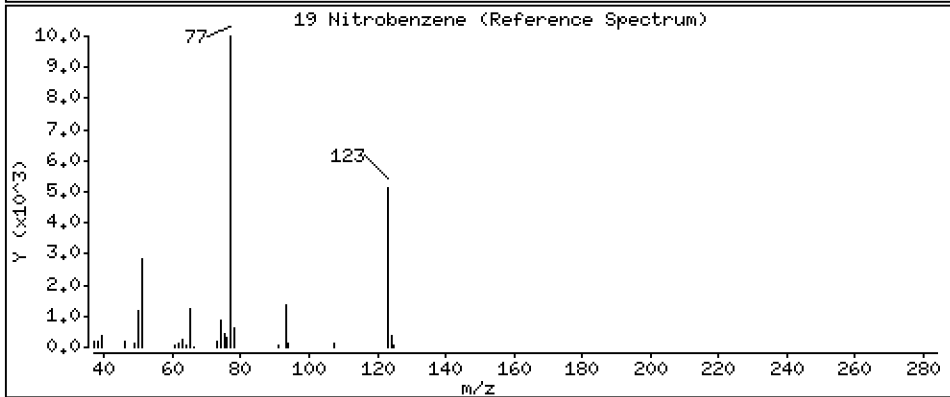
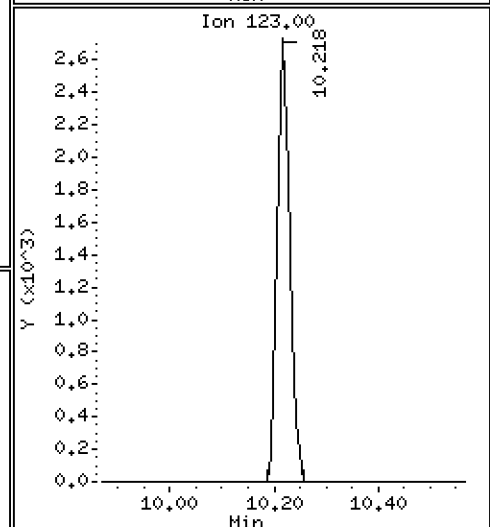
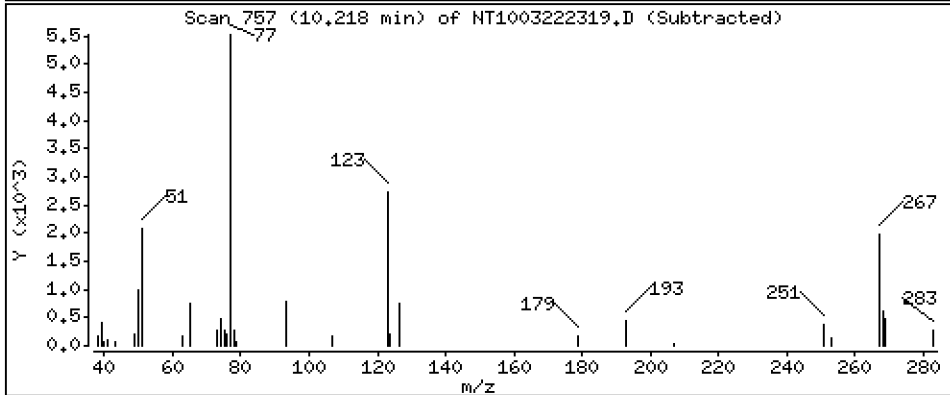
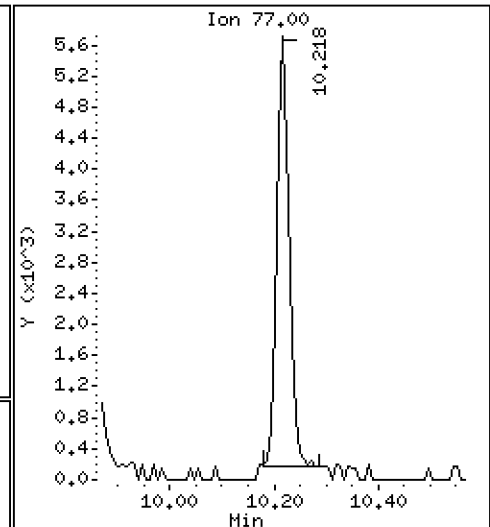
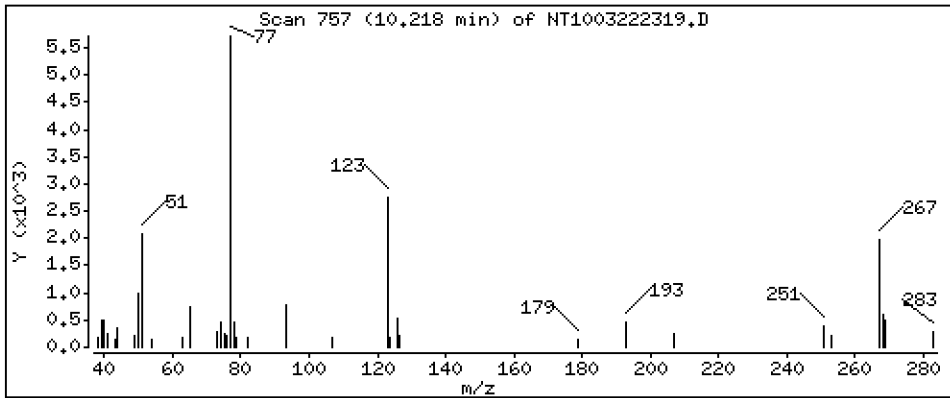
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,1801 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

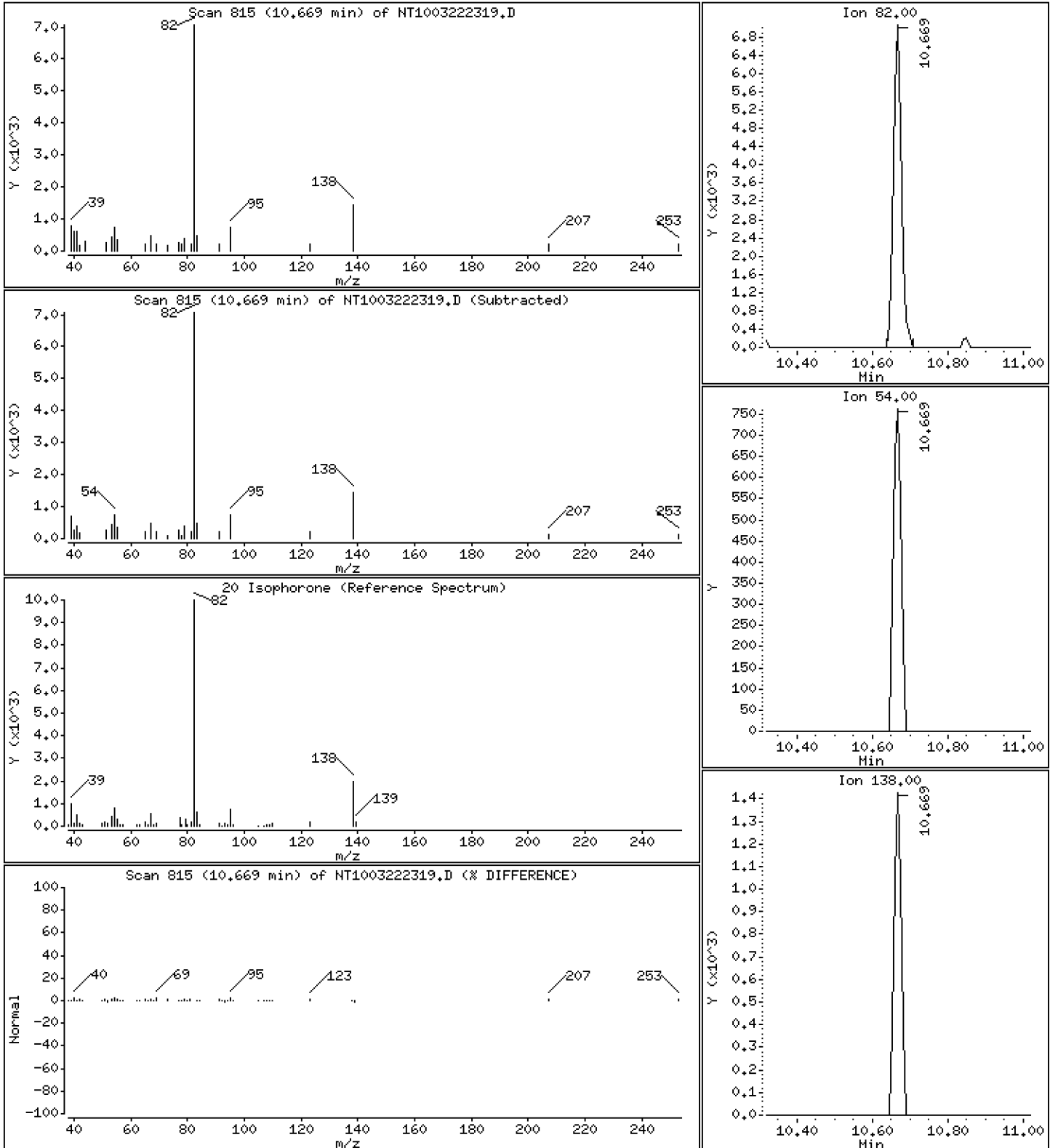
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.1780 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

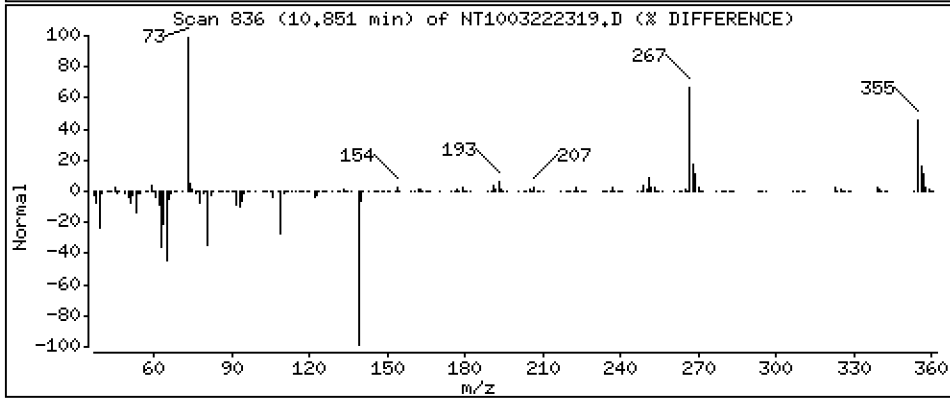
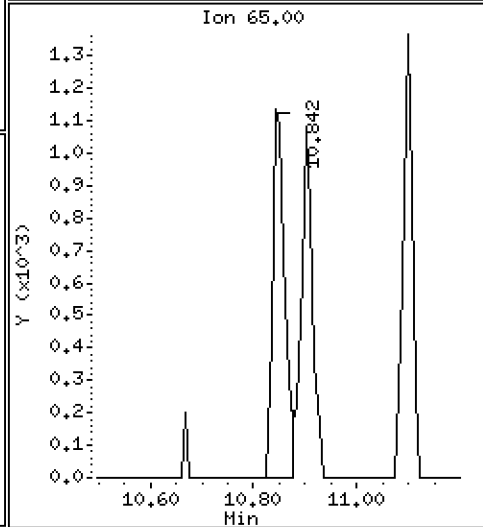
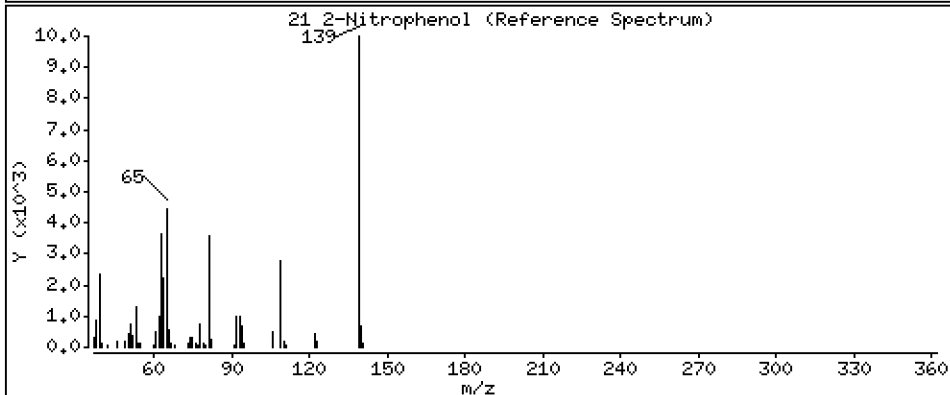
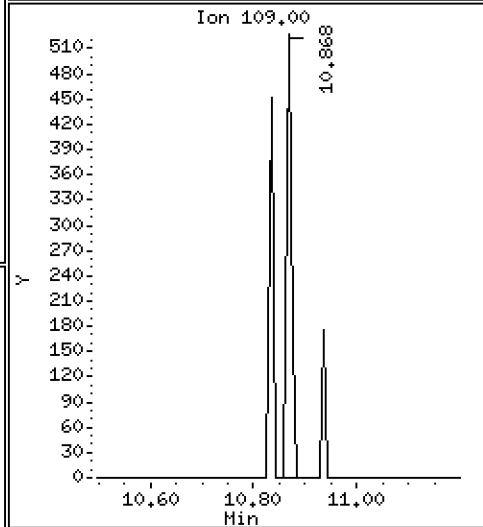
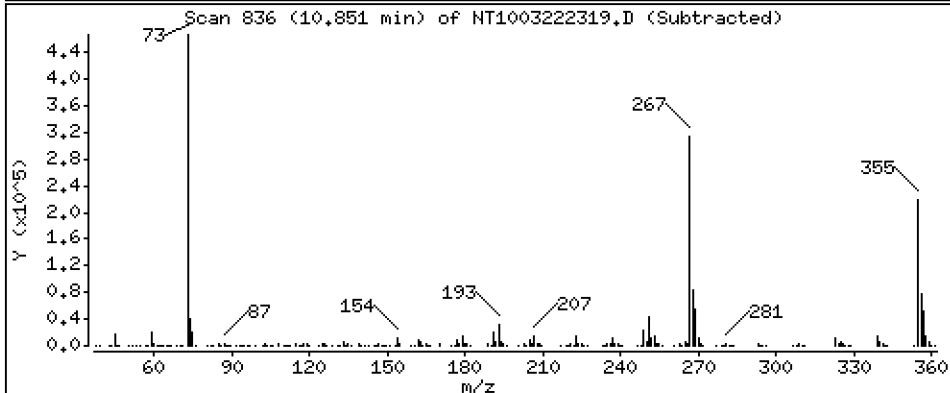
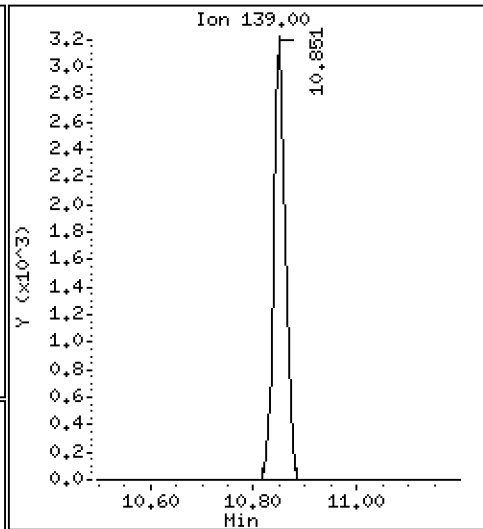
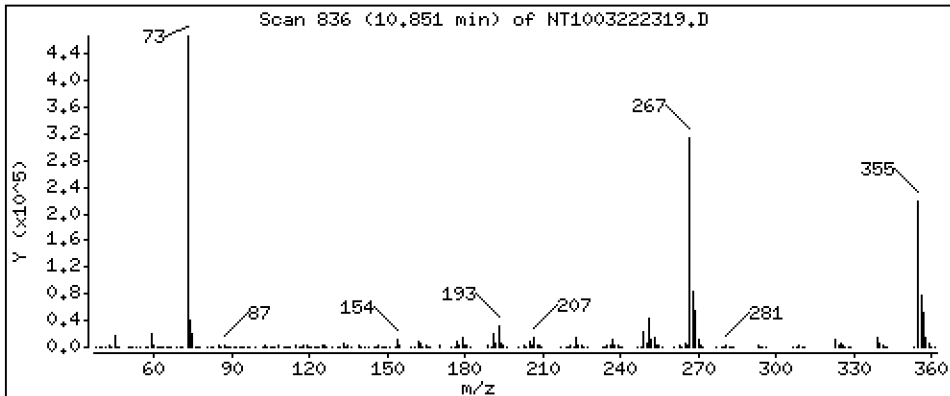
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,2258 ug/mL





Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

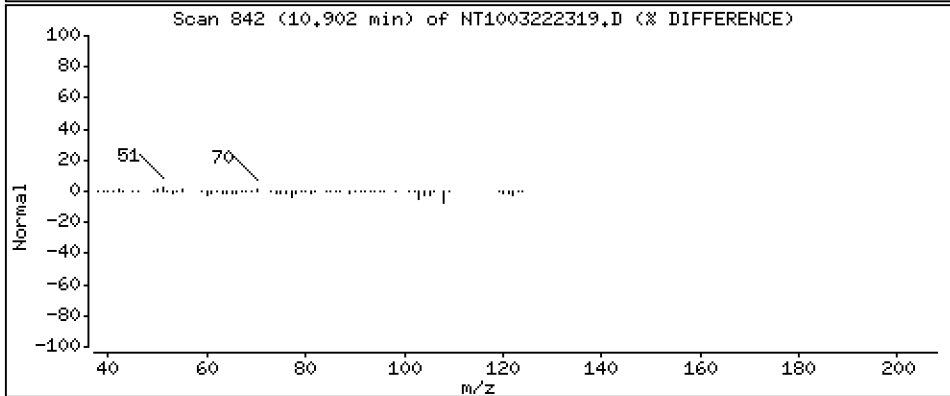
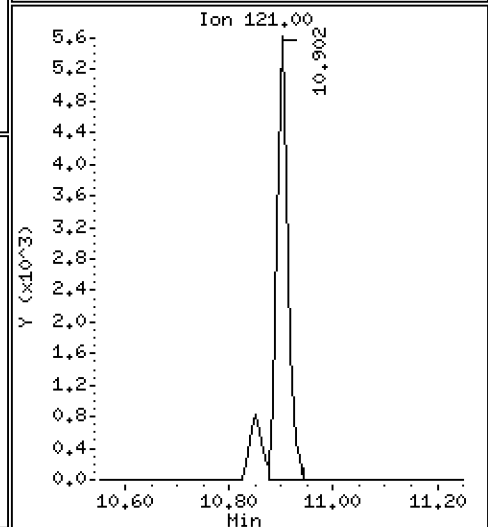
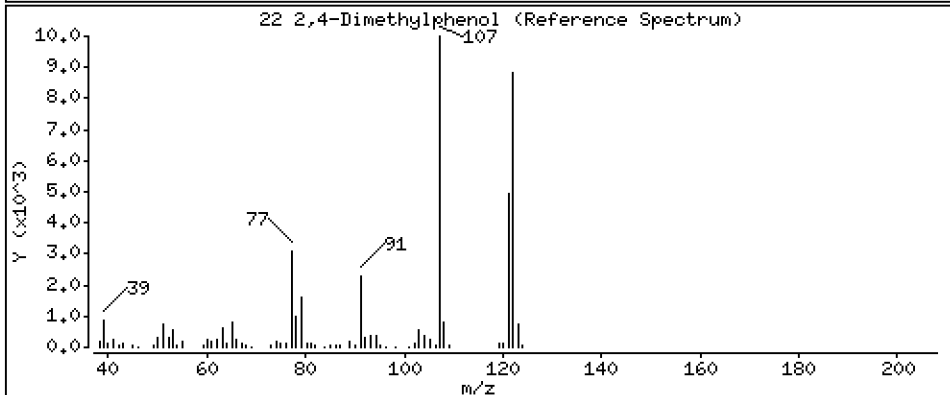
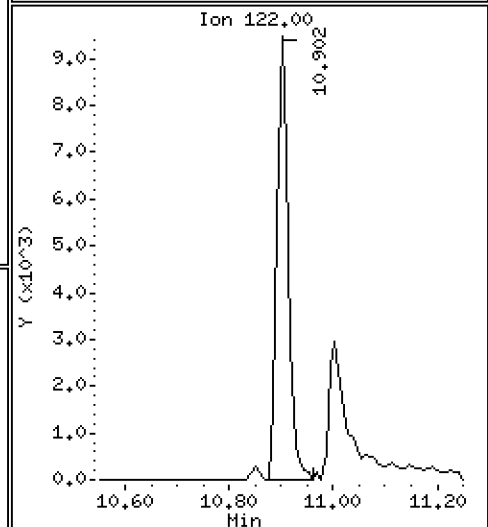
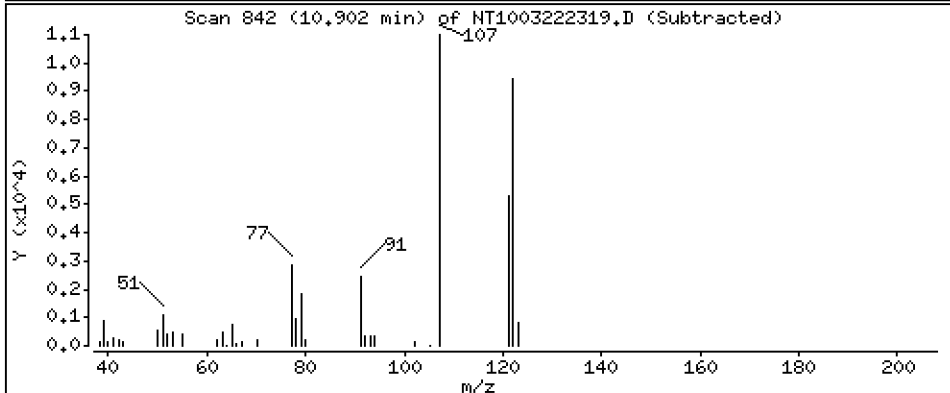
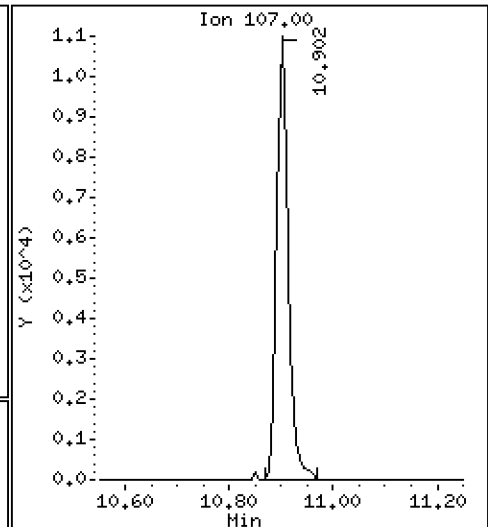
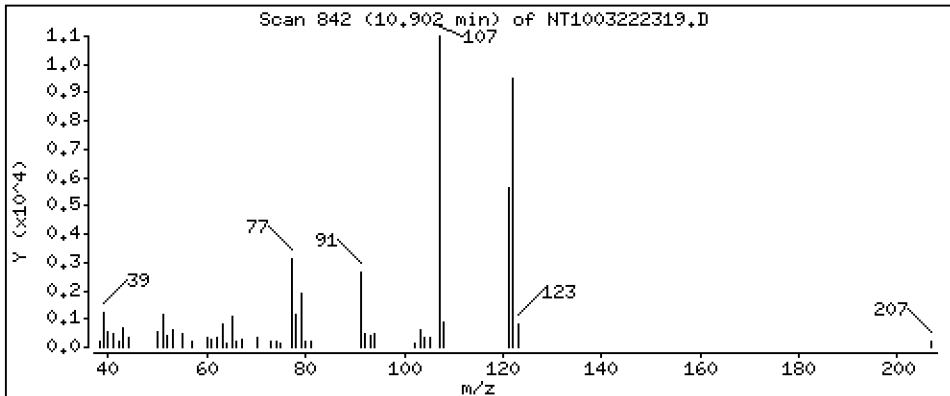
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,3865 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

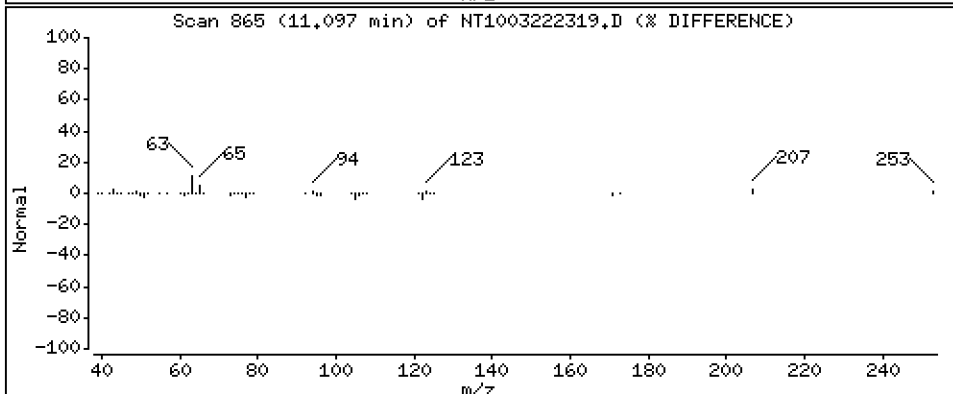
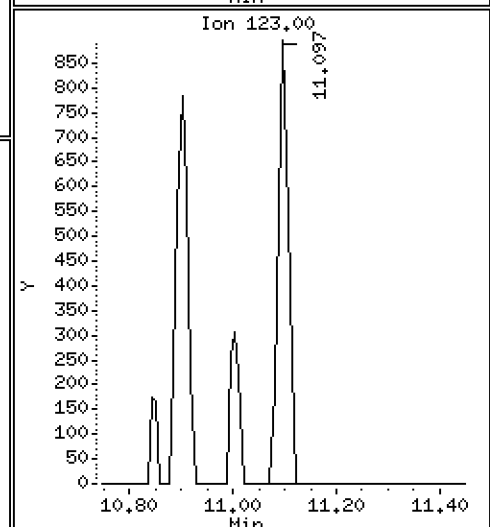
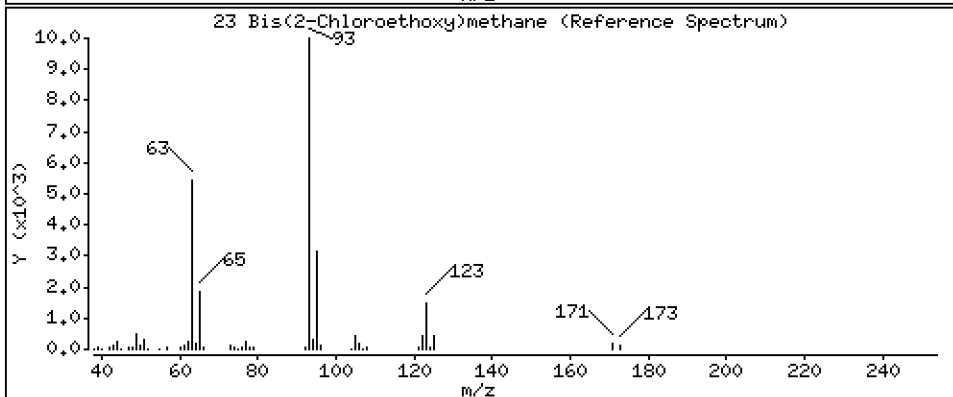
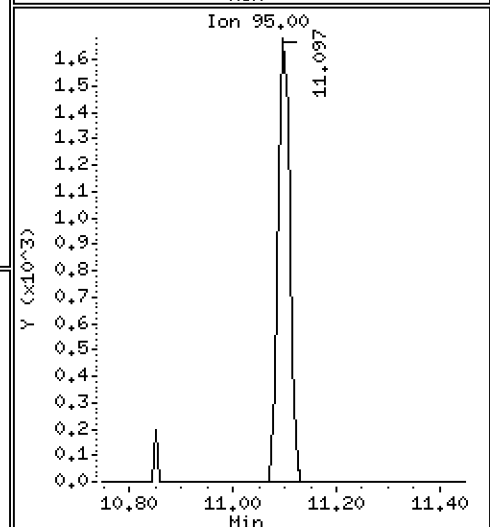
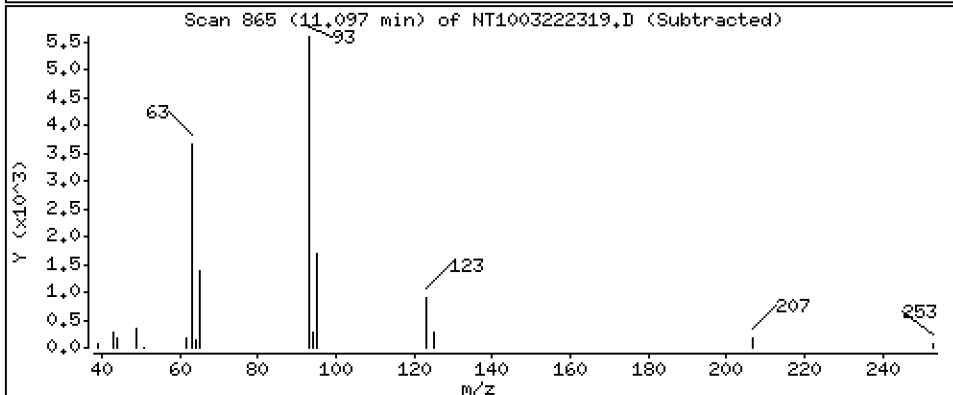
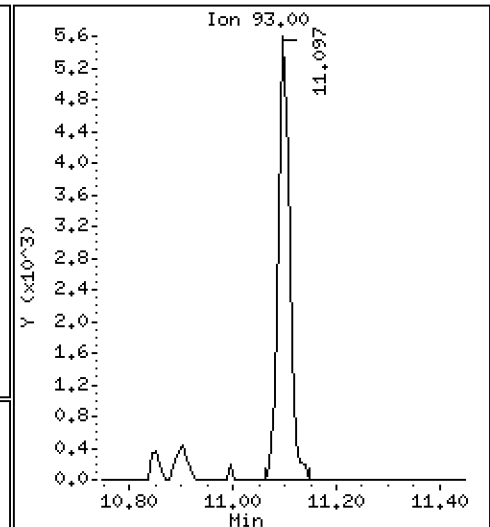
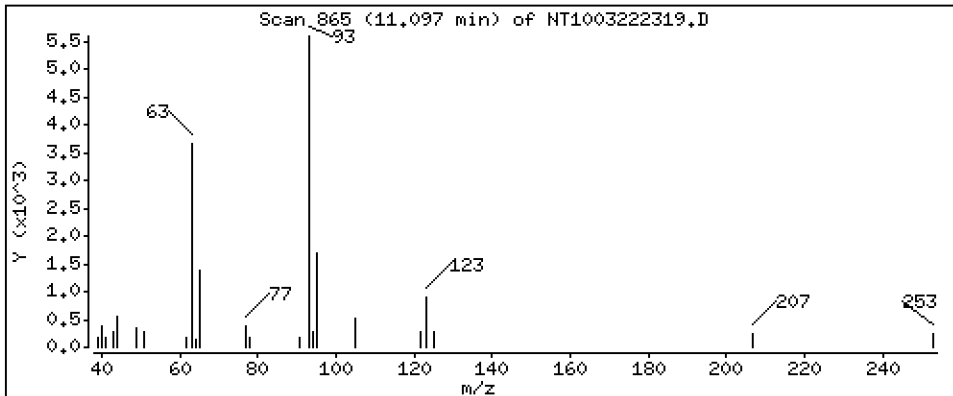
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,2089 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

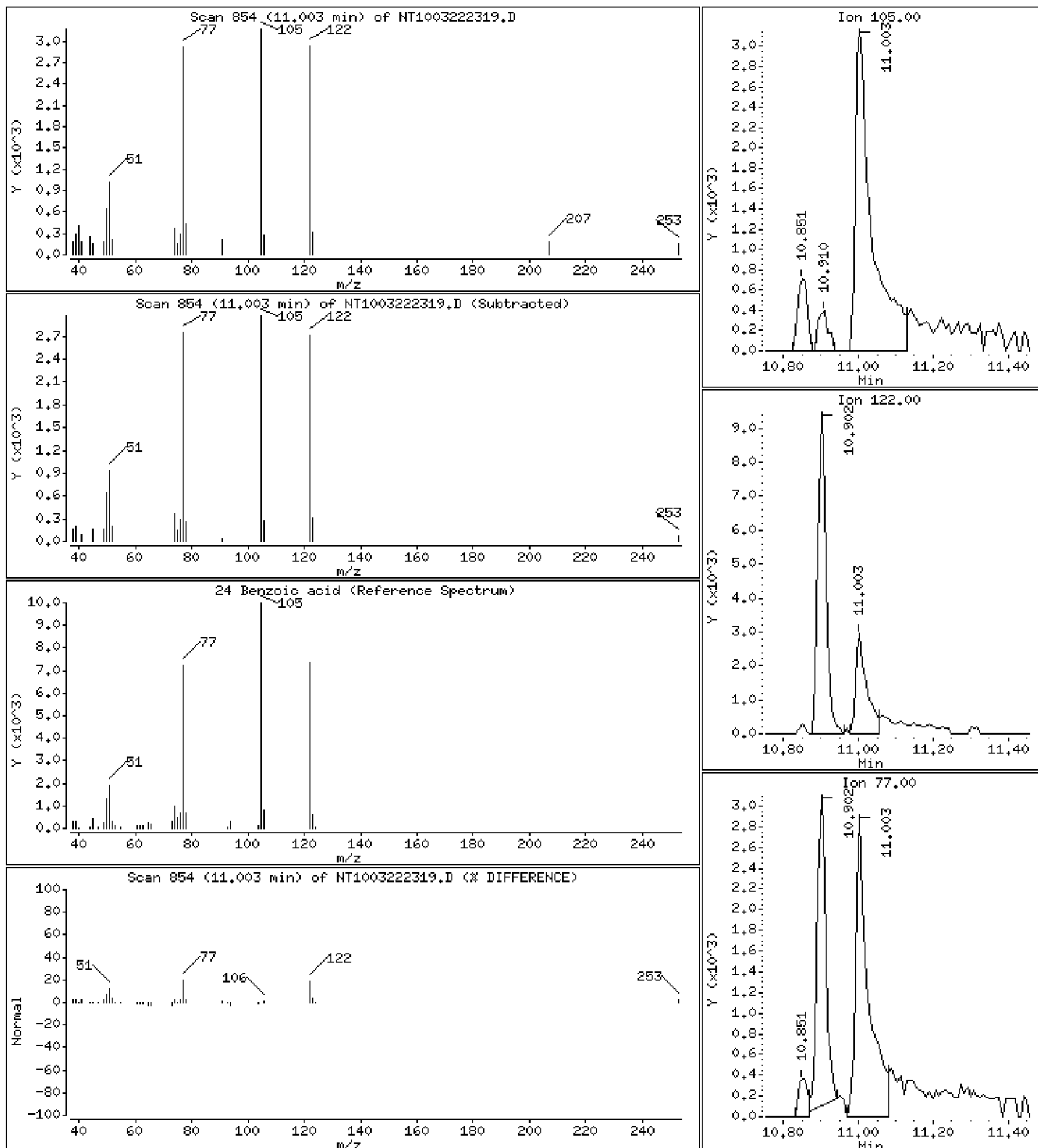
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.4164 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

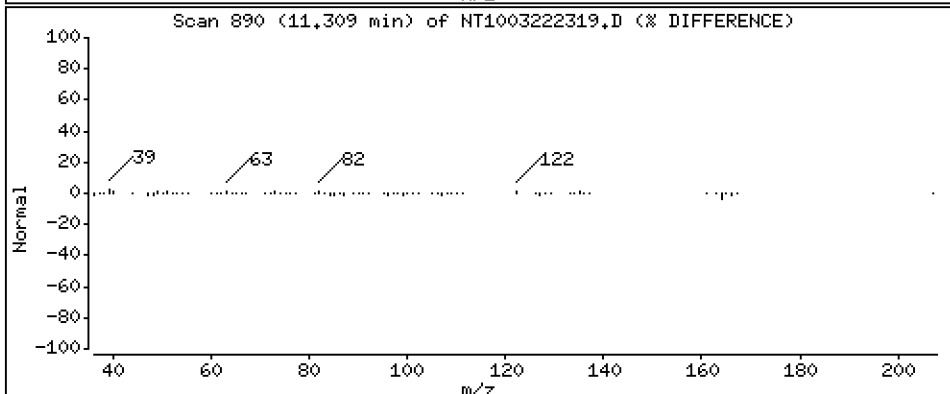
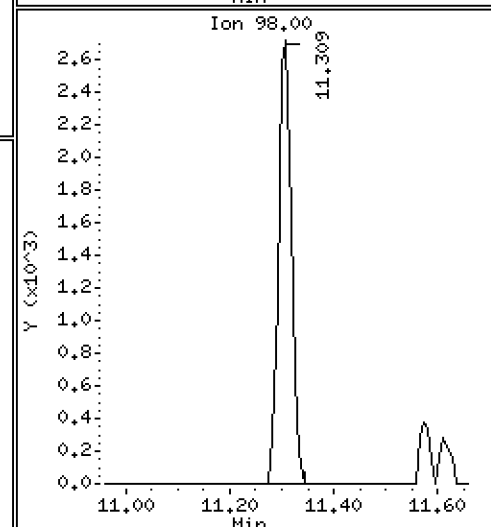
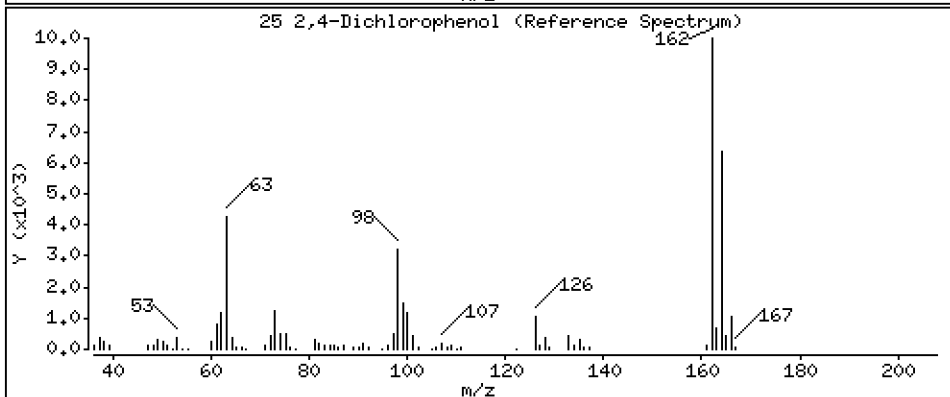
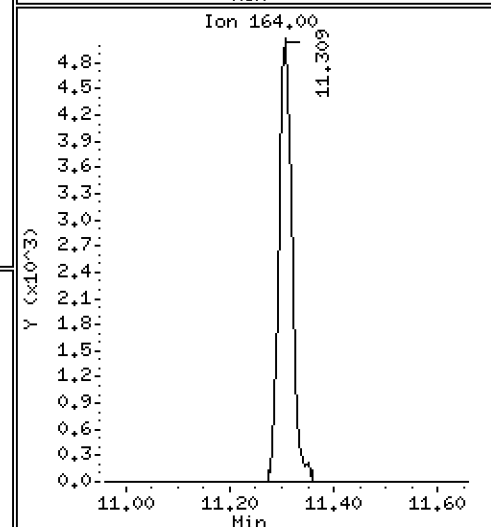
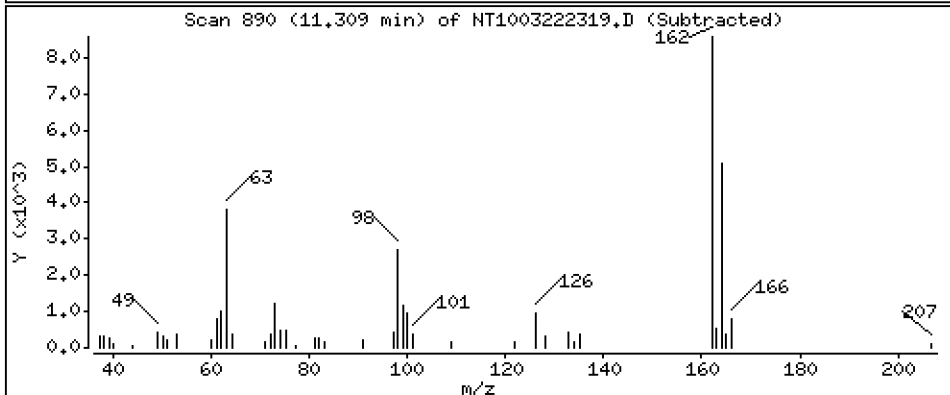
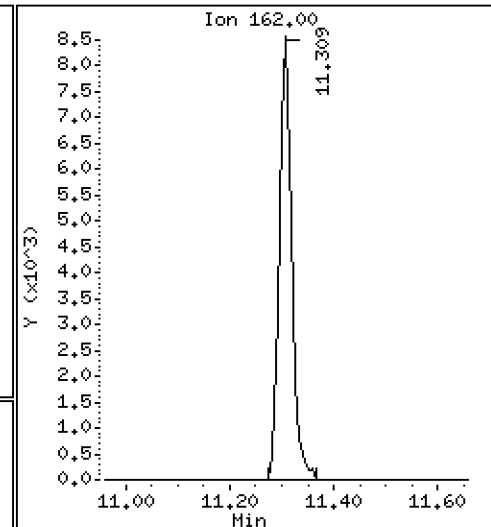
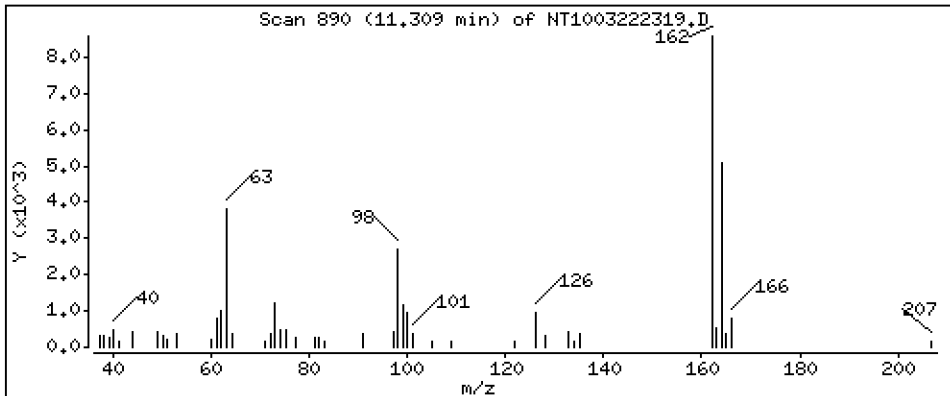
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,4020 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

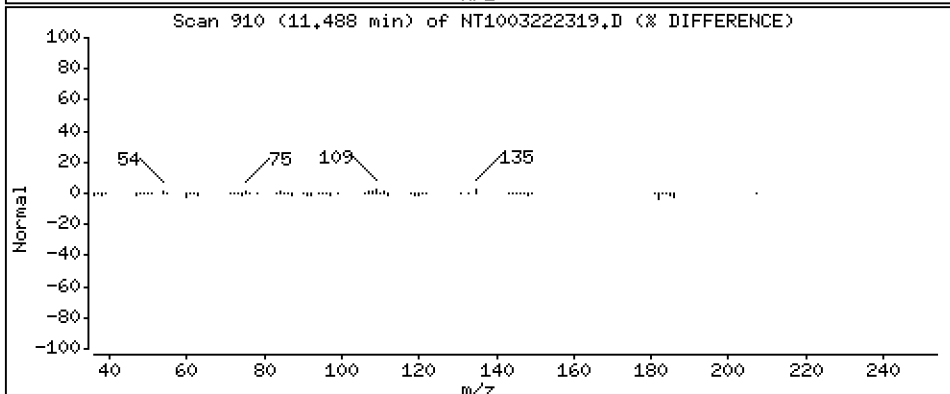
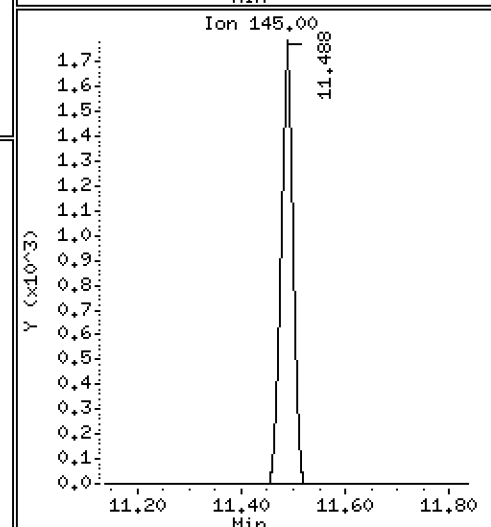
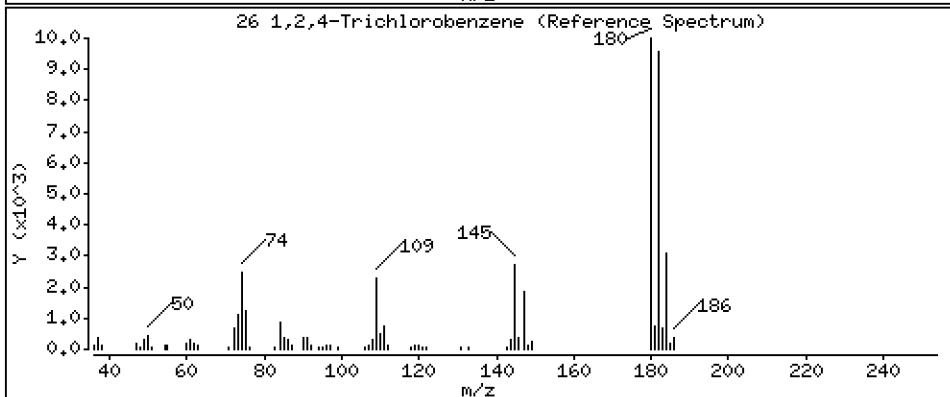
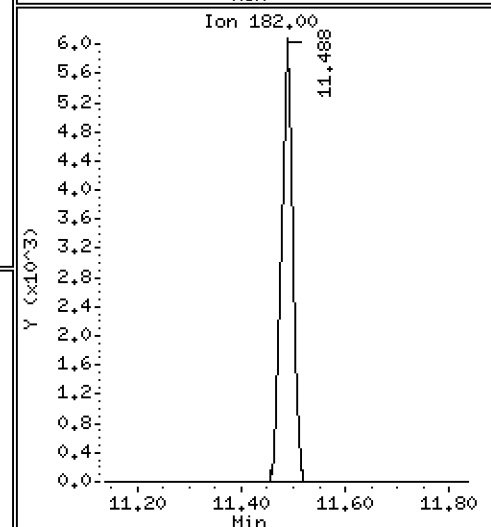
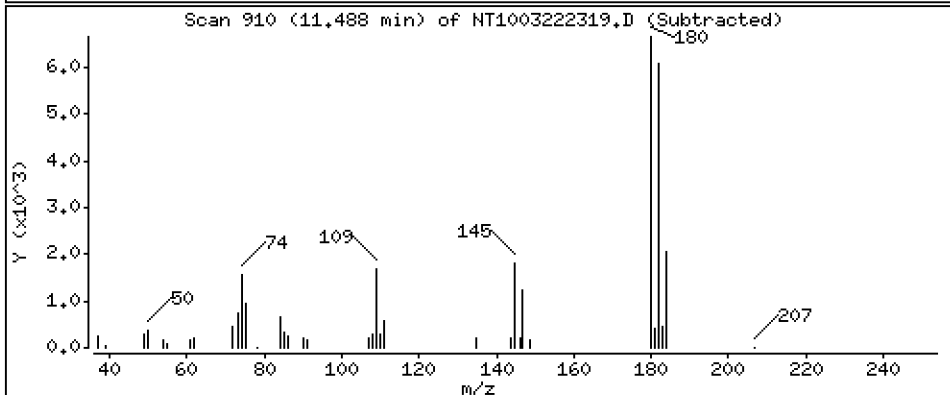
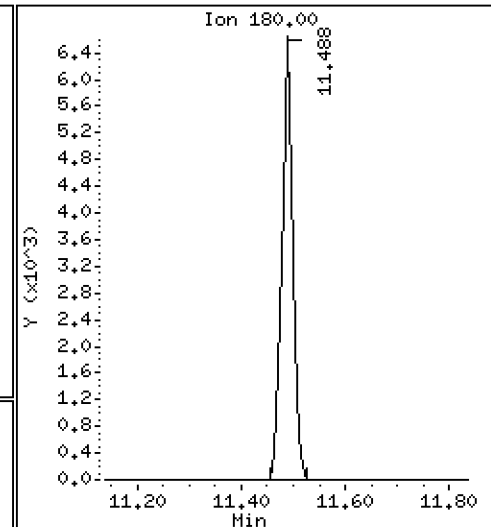
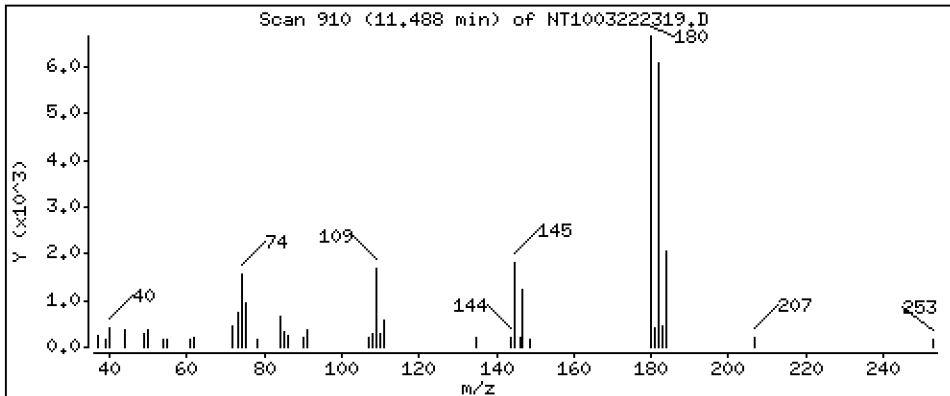
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,2281 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

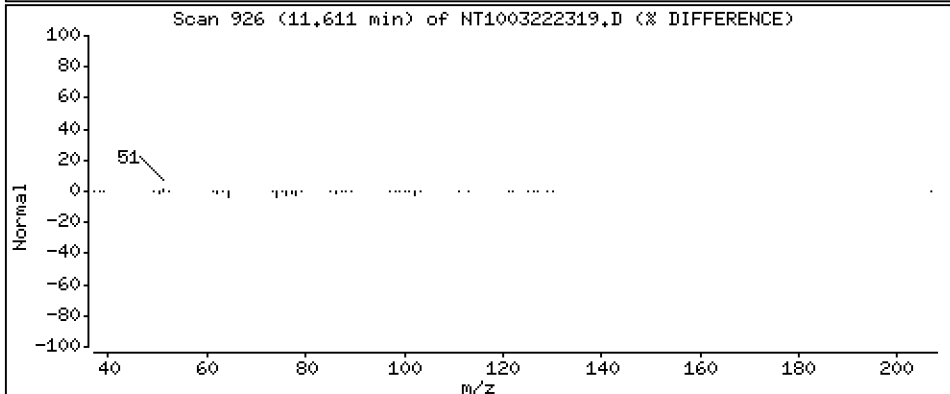
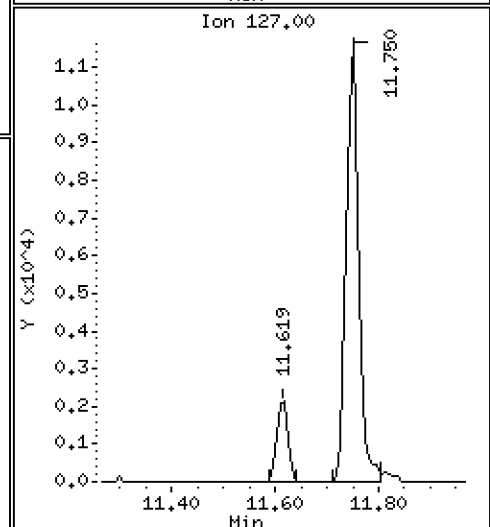
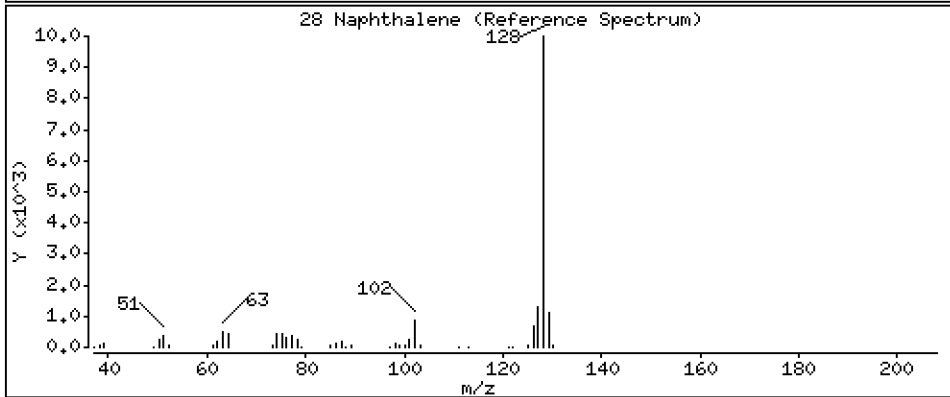
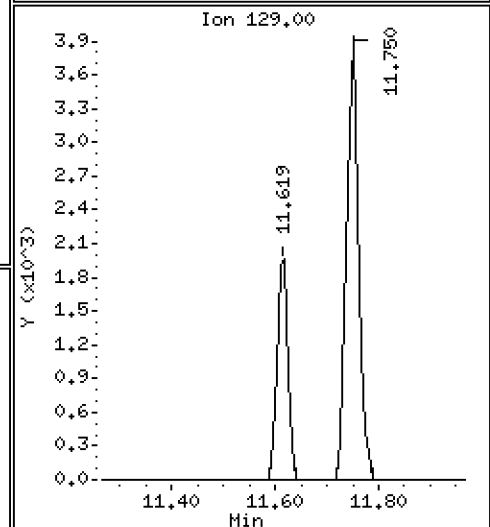
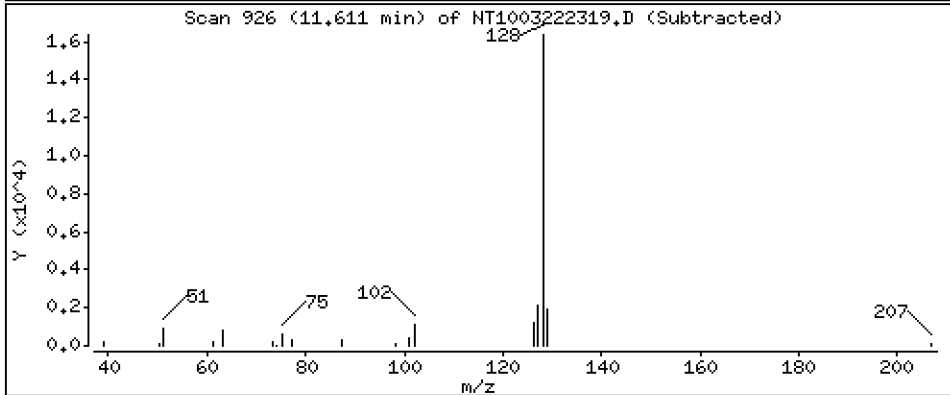
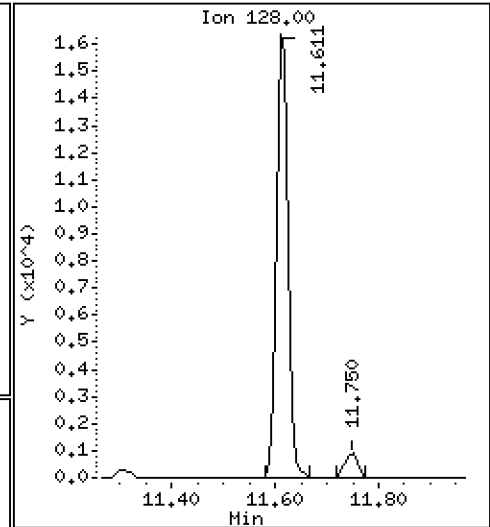
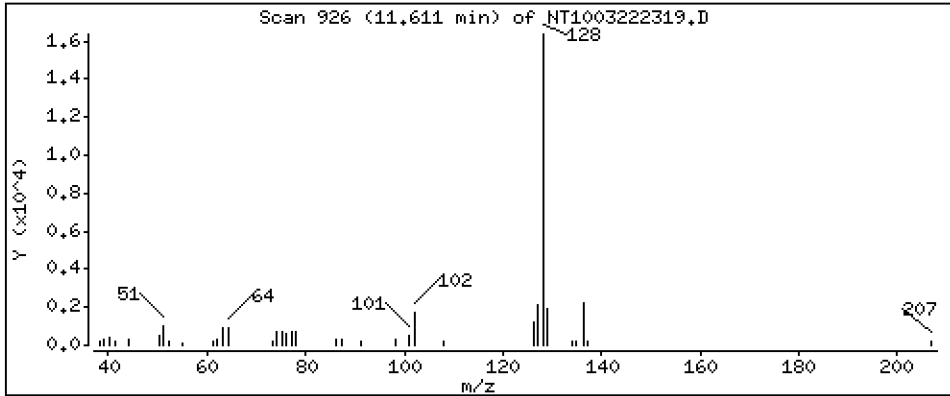
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2079 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

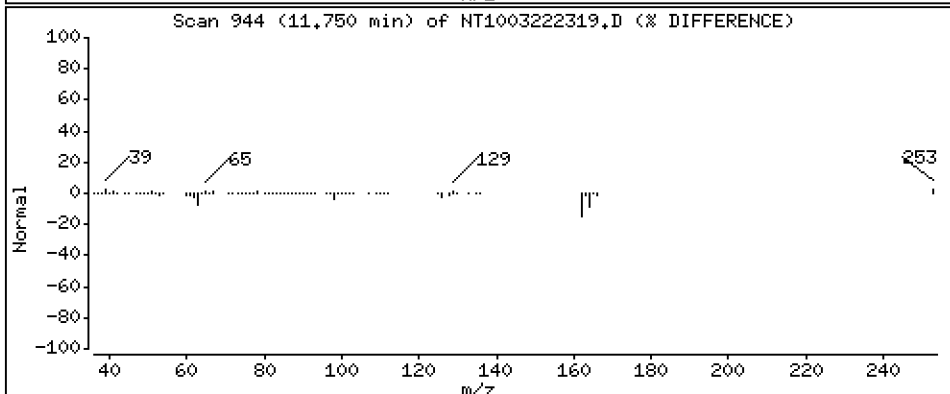
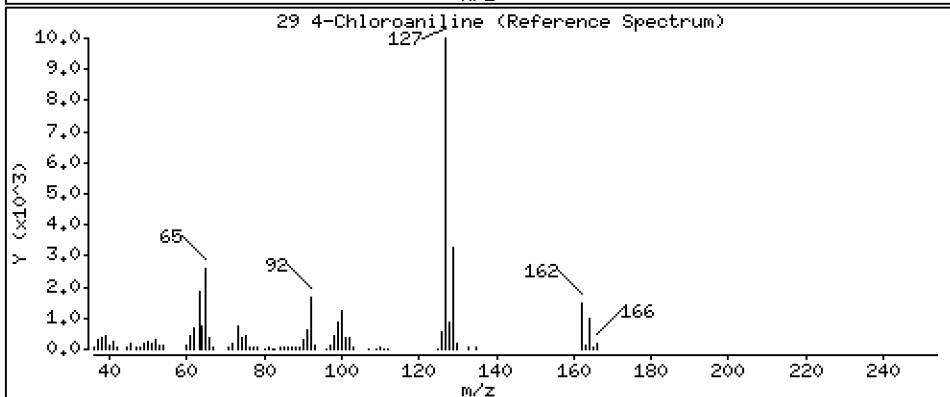
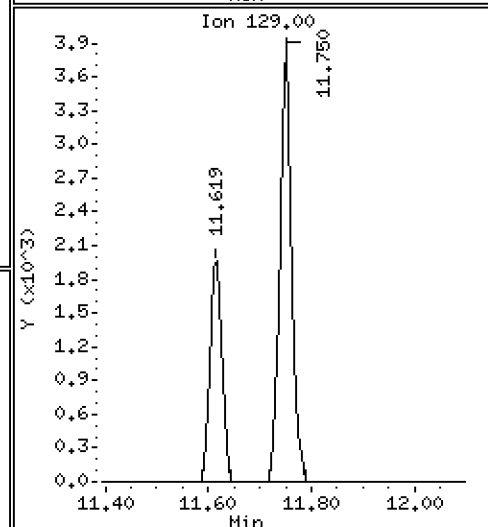
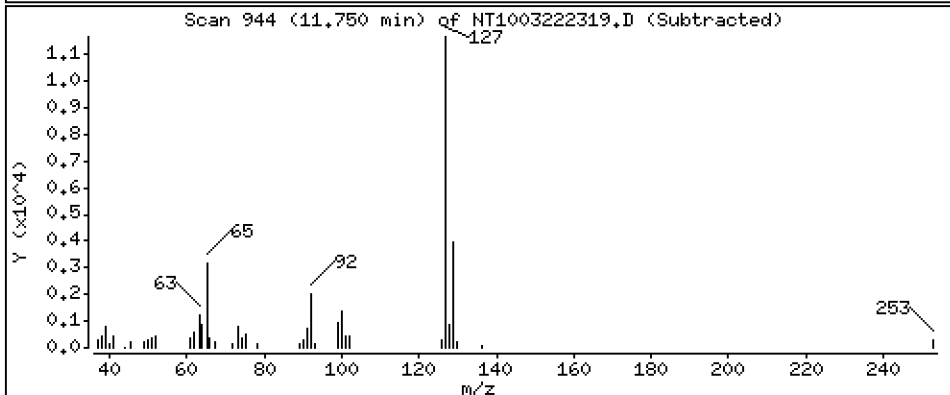
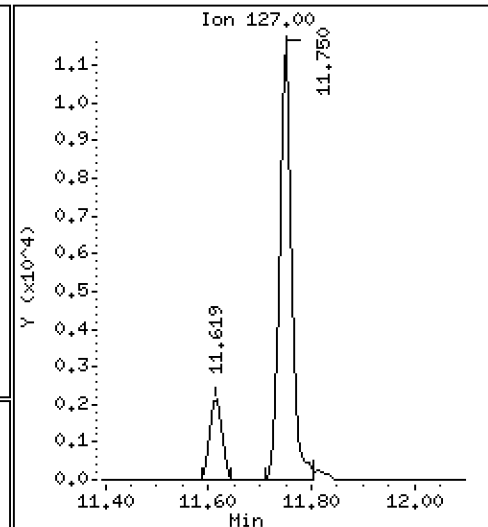
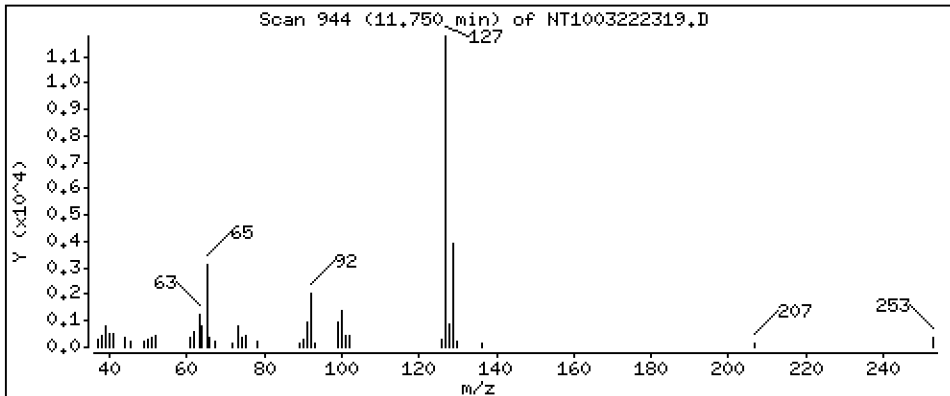
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3783 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

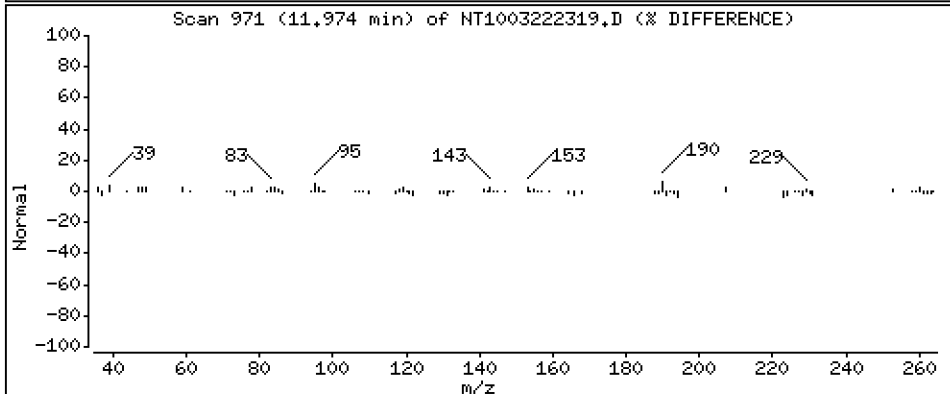
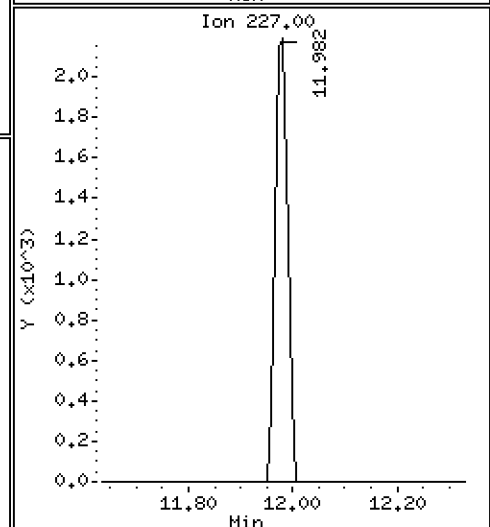
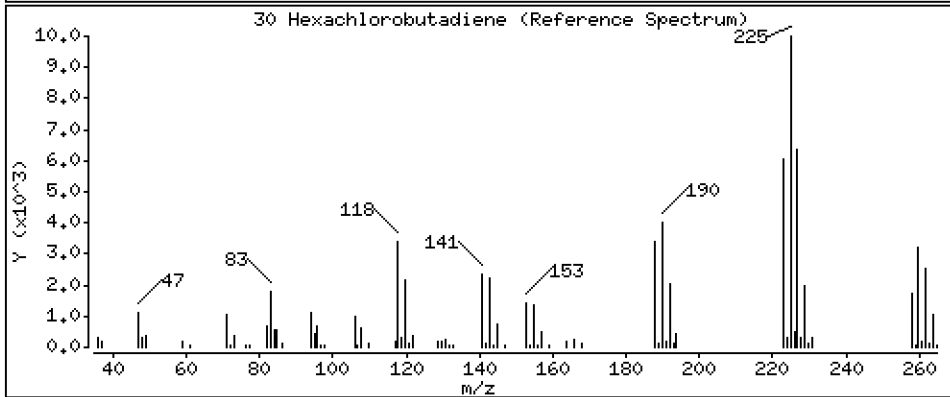
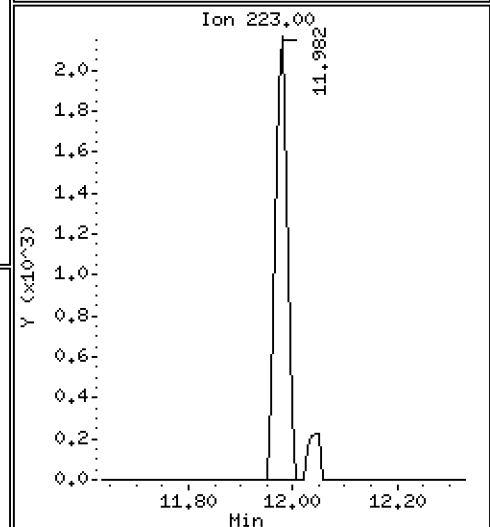
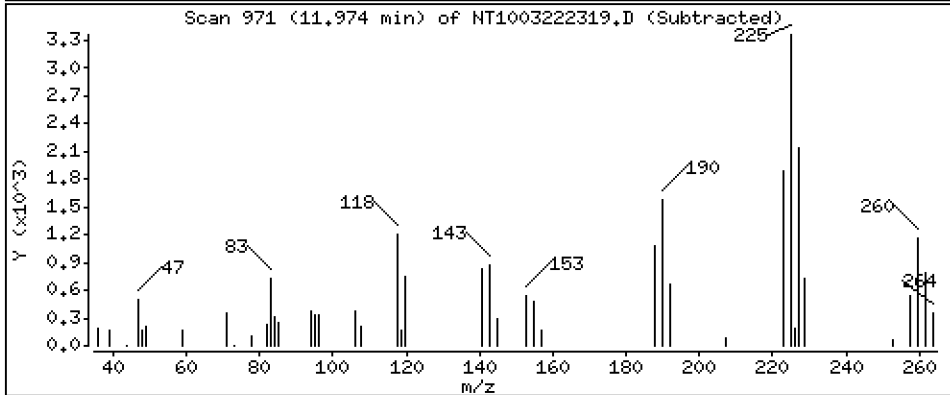
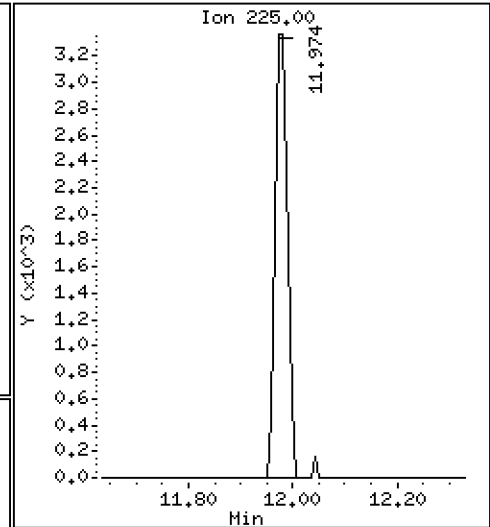
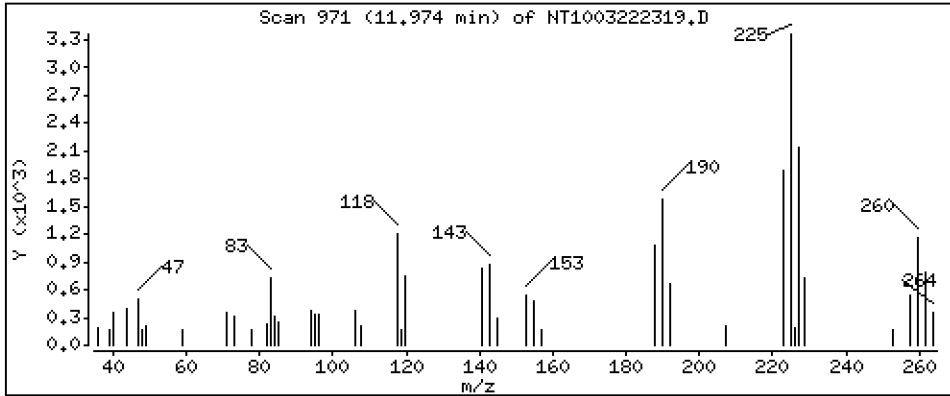
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,2194 ug/mL





Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

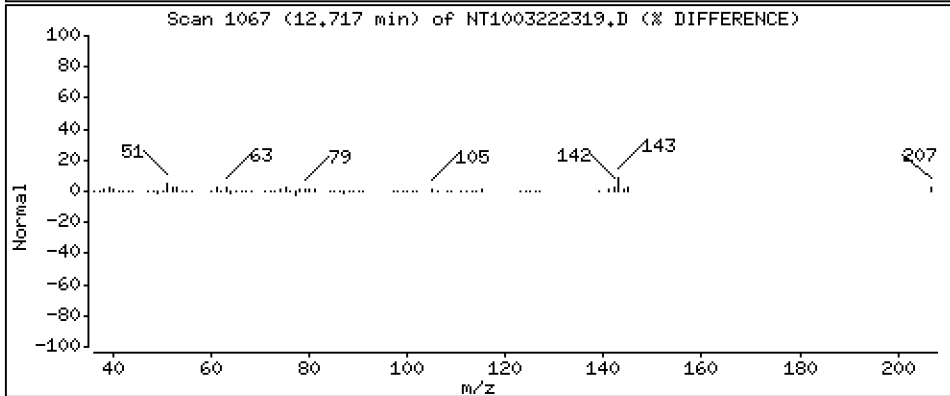
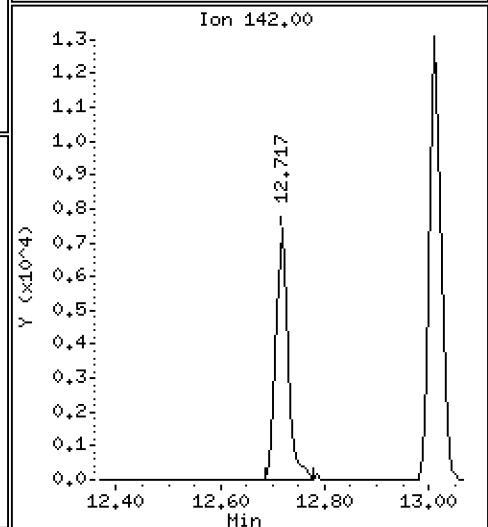
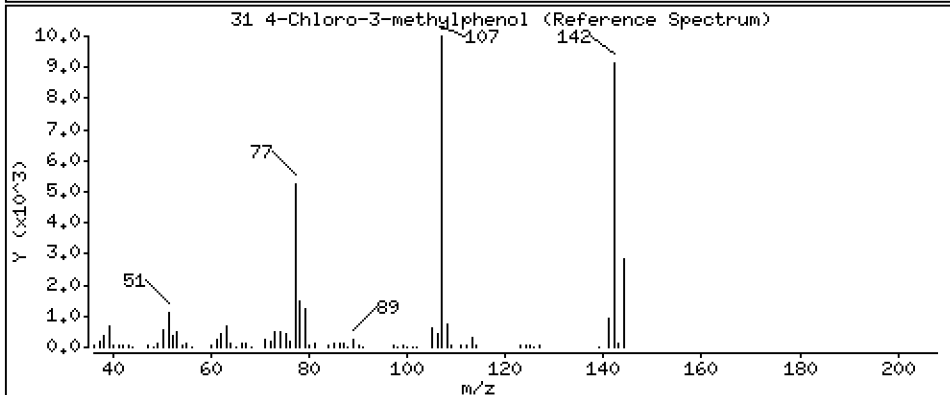
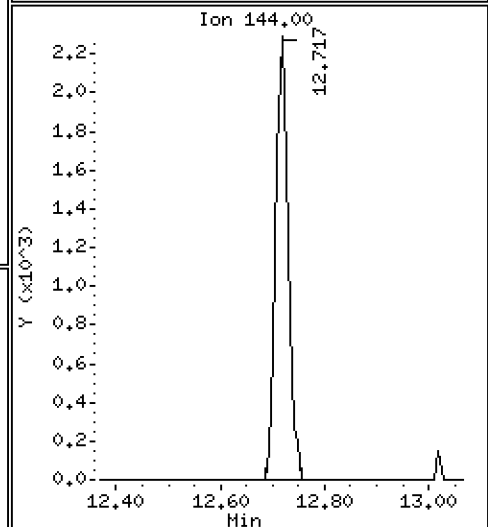
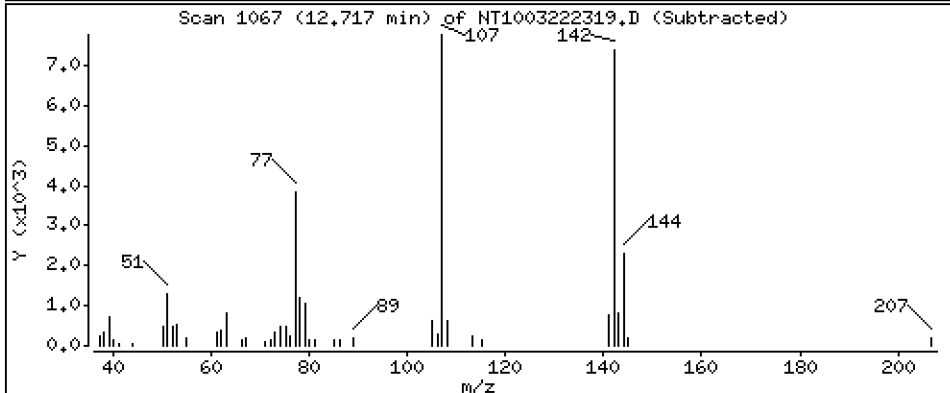
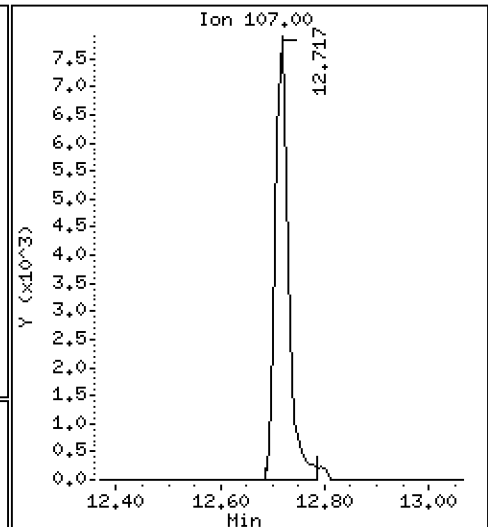
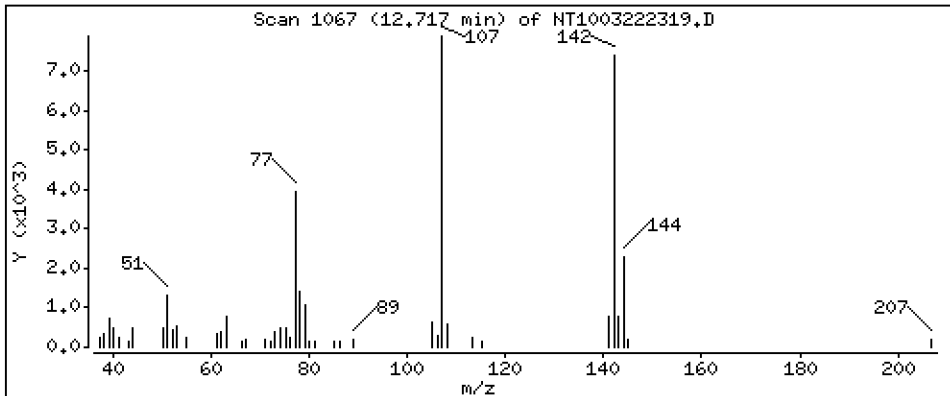
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,3500 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

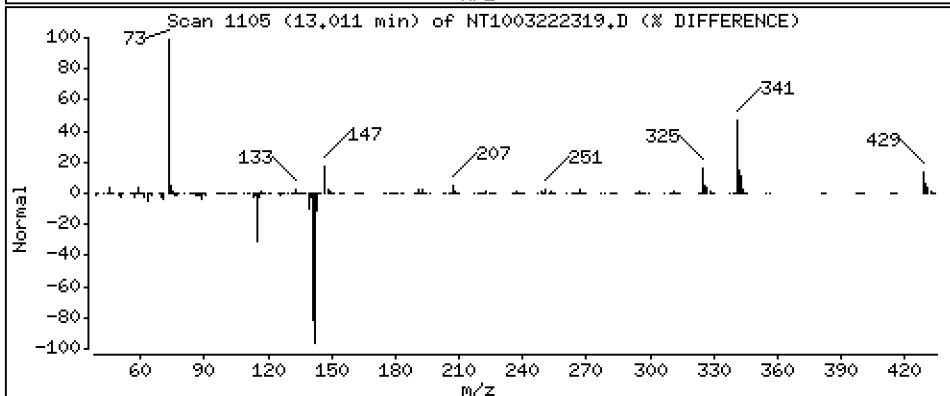
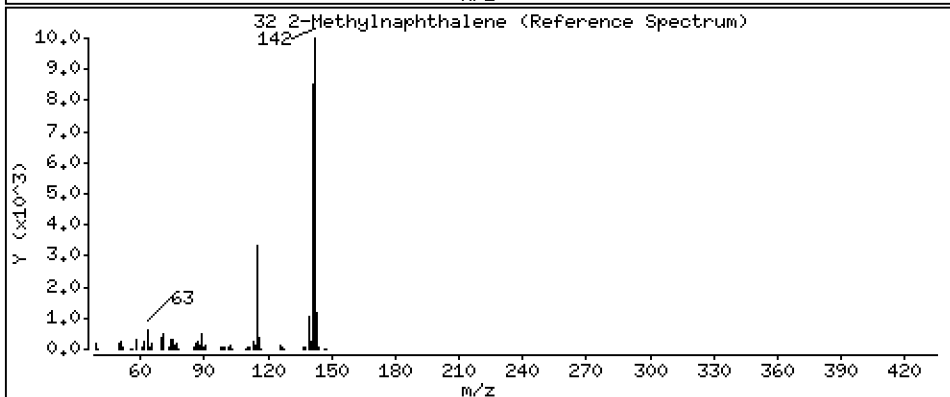
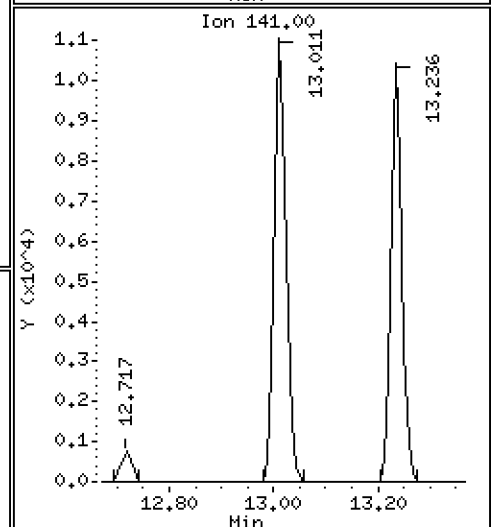
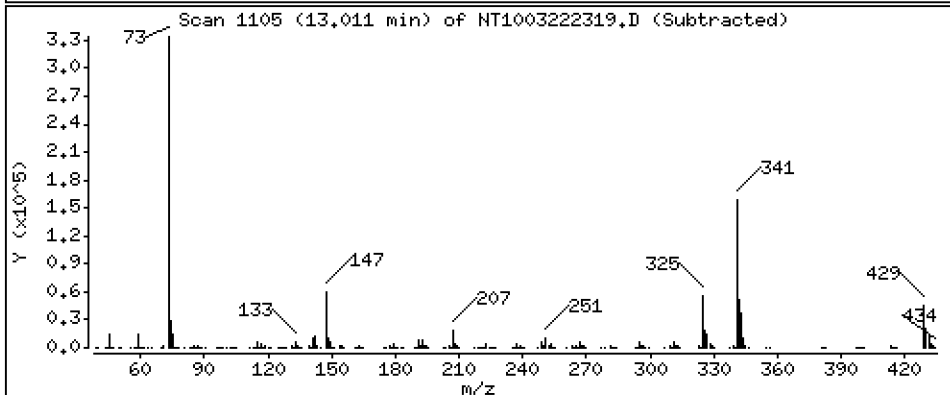
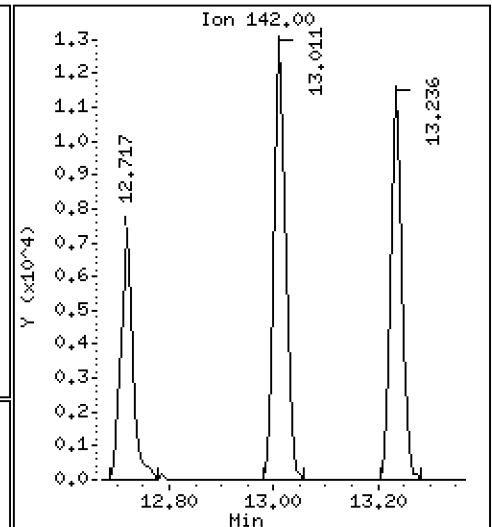
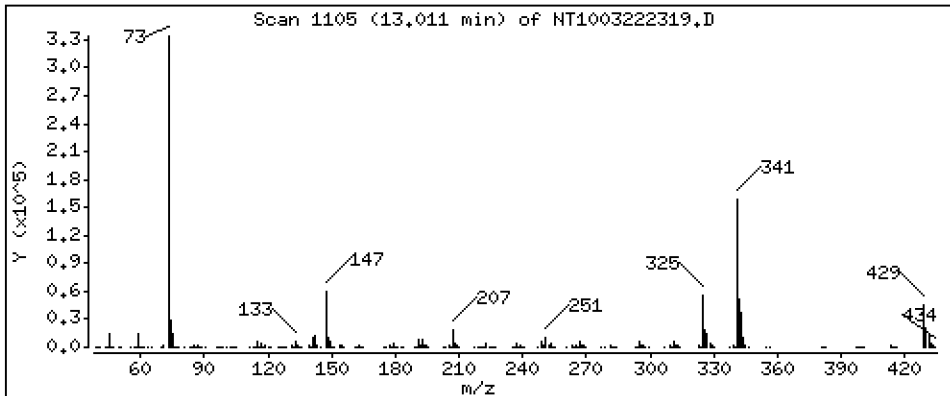
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,2137 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

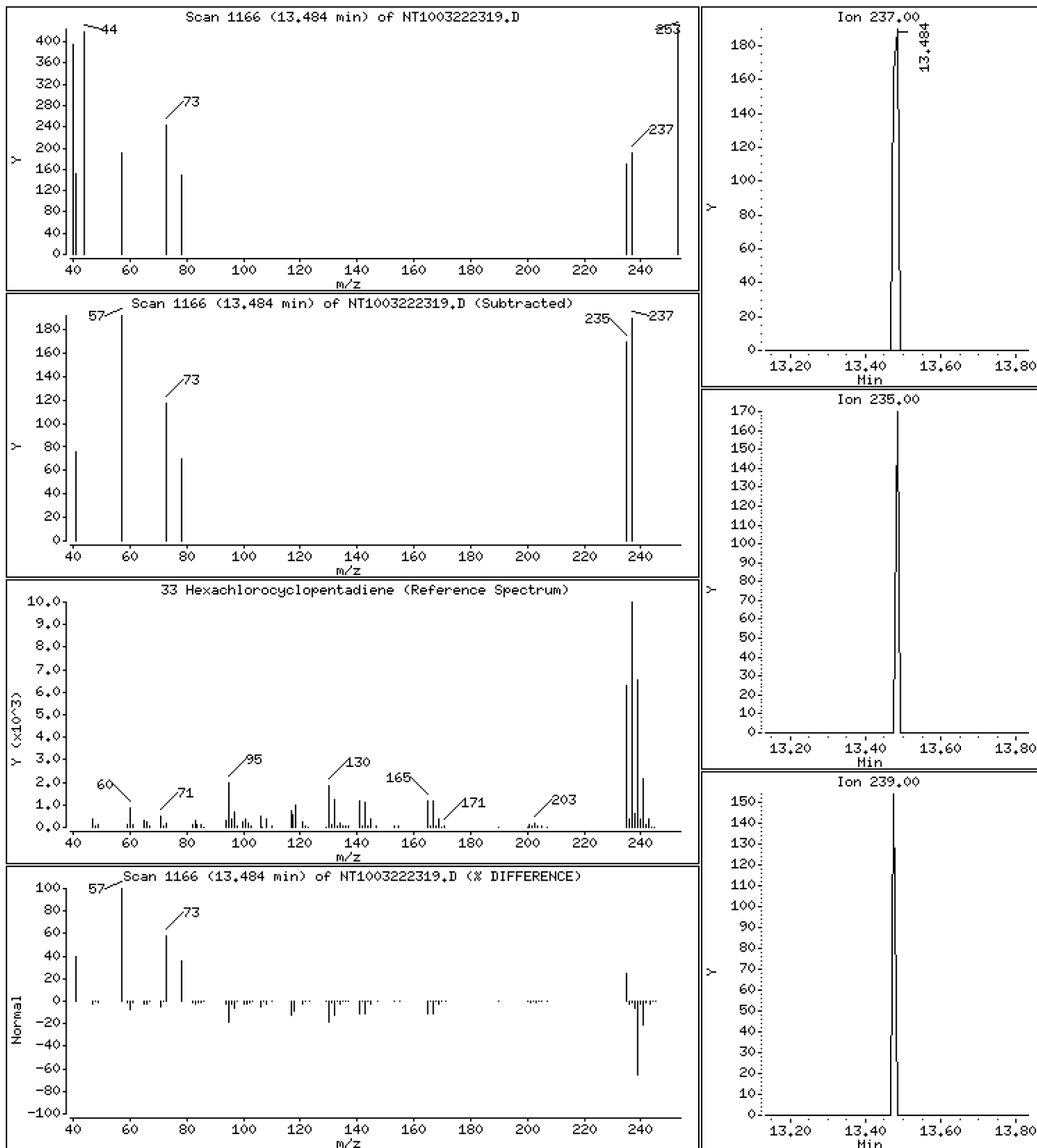
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,006755 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

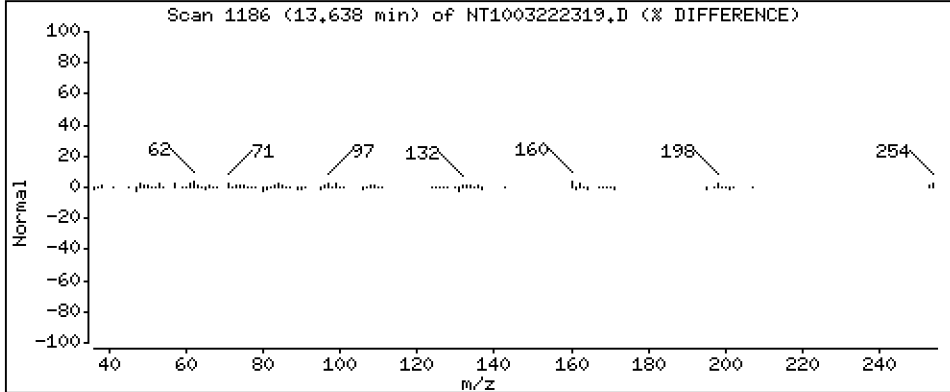
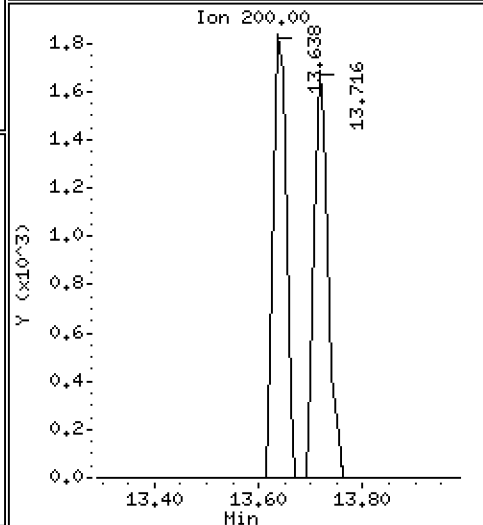
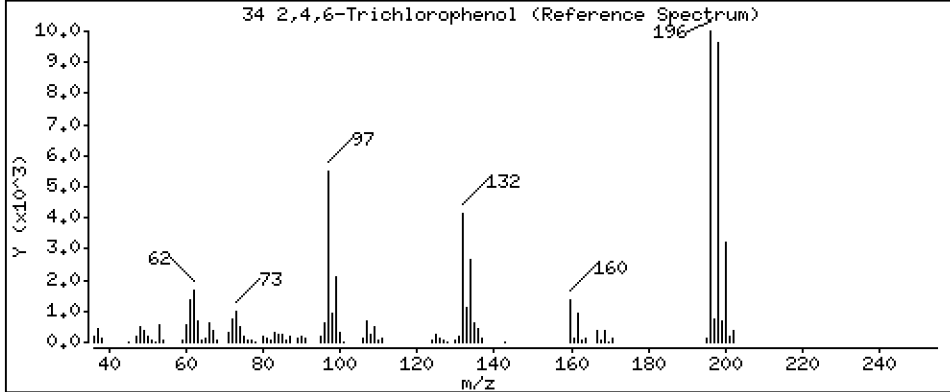
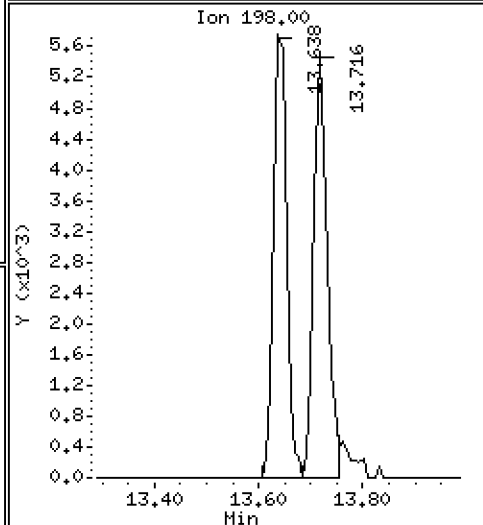
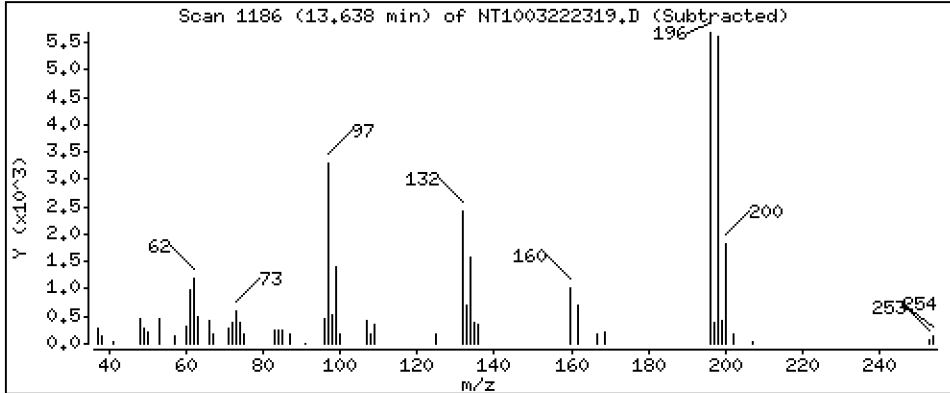
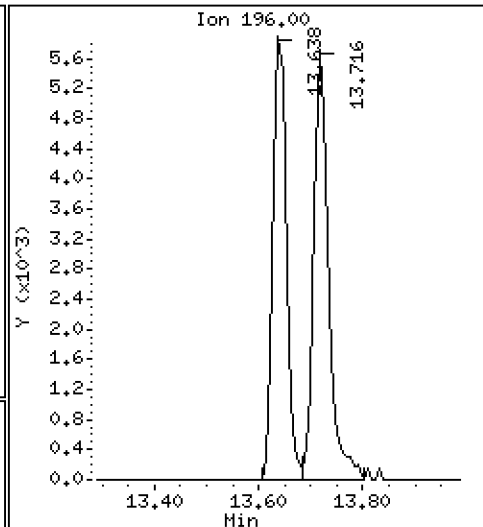
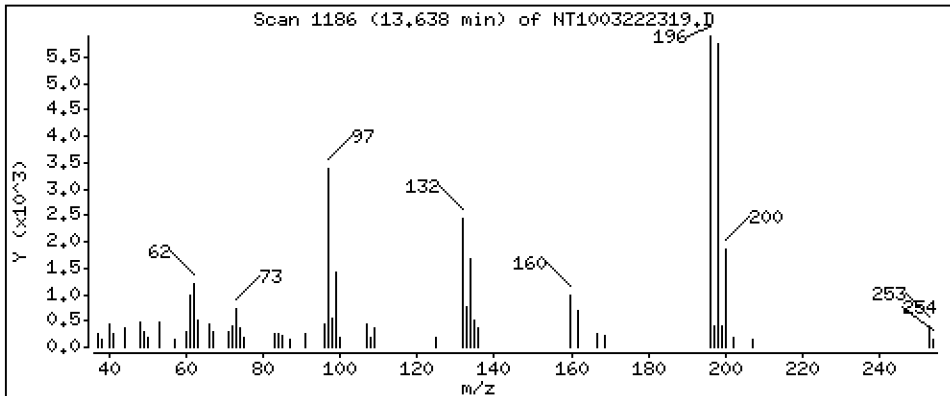
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,3908 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

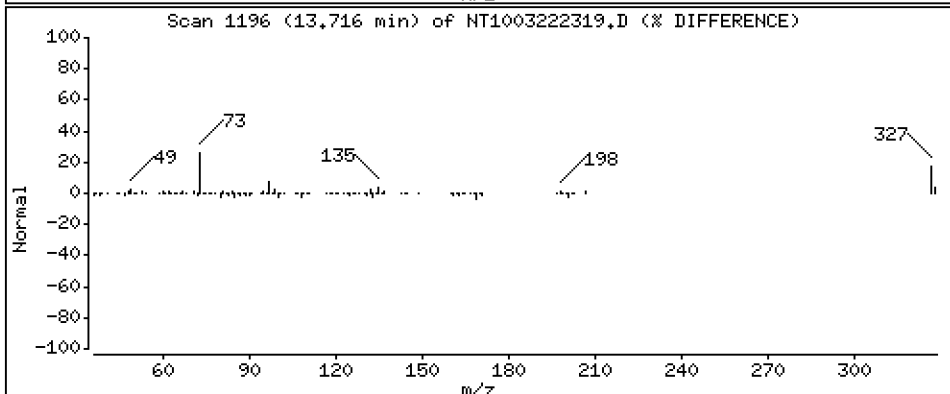
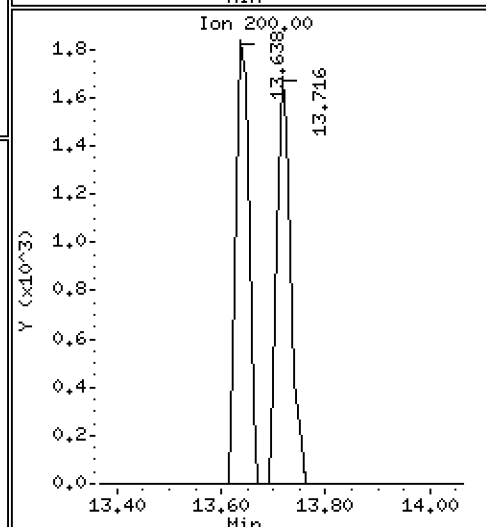
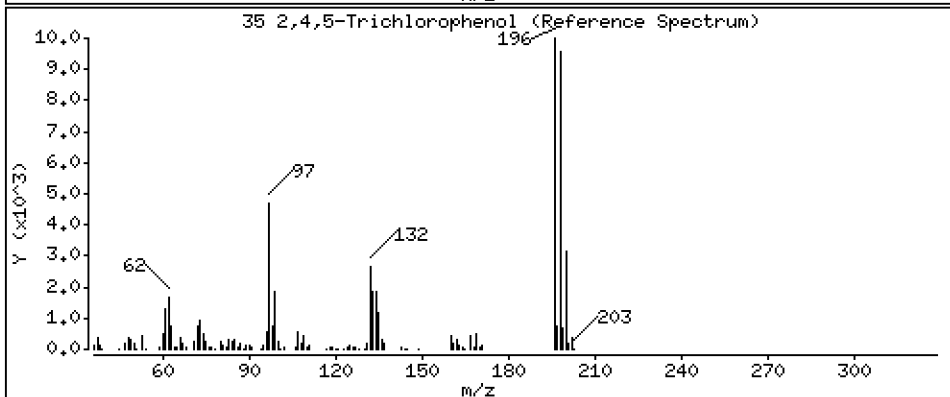
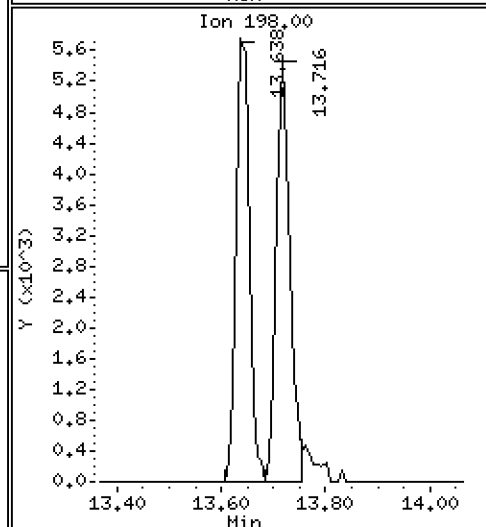
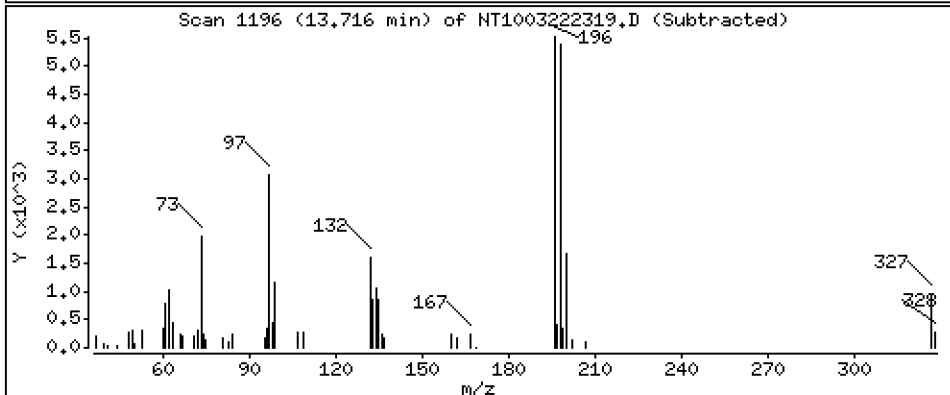
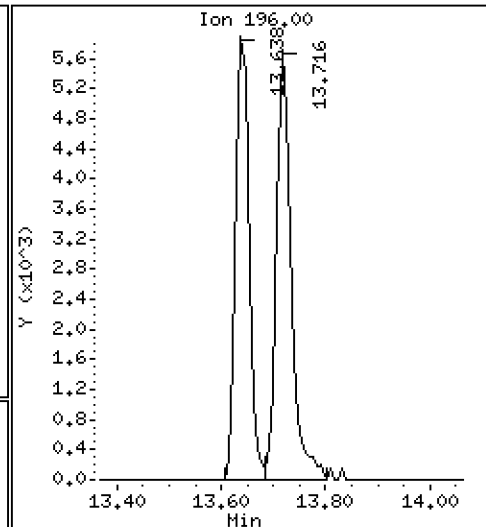
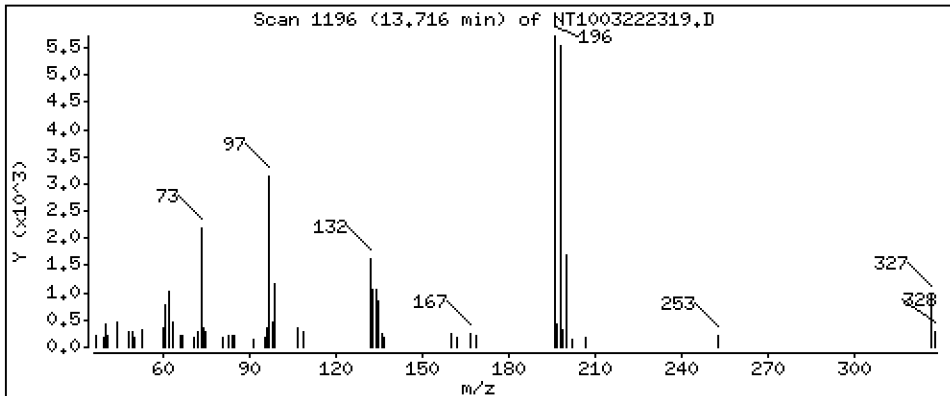
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,3791 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

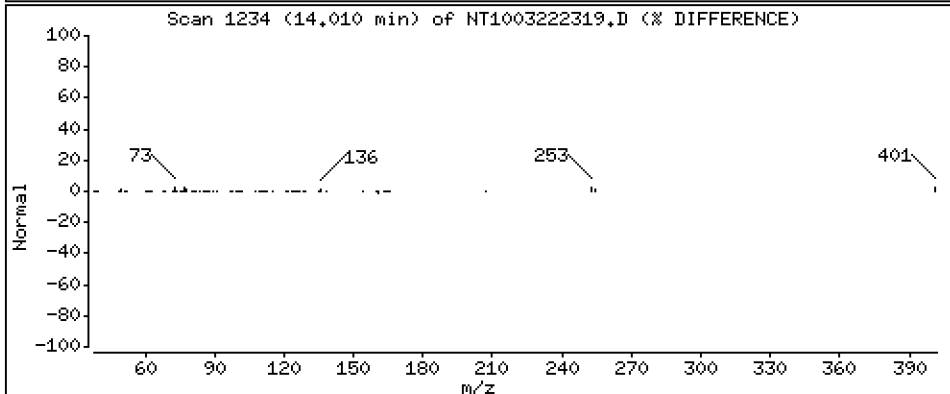
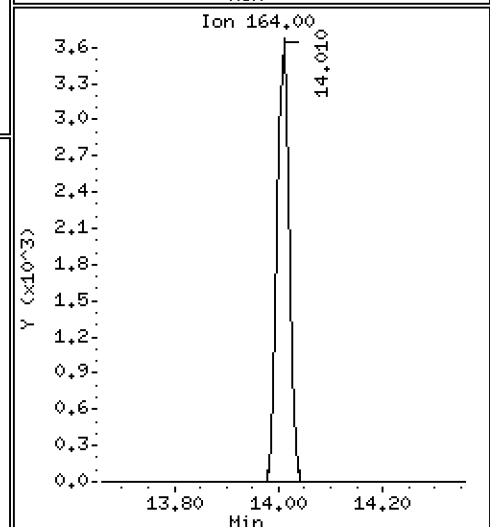
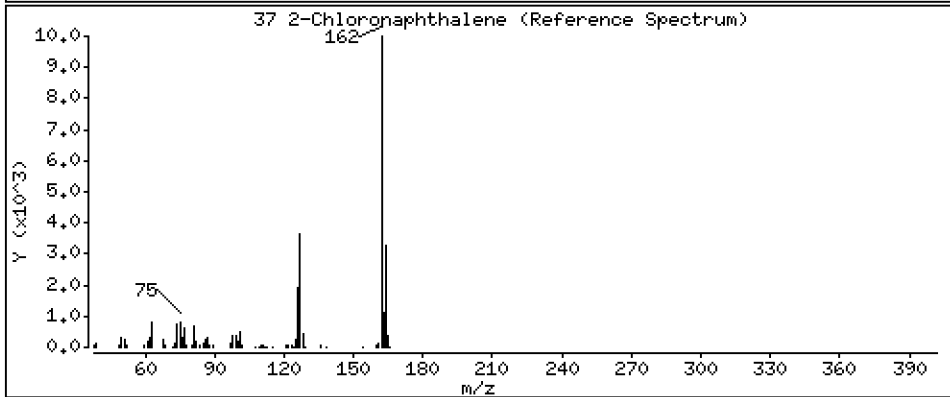
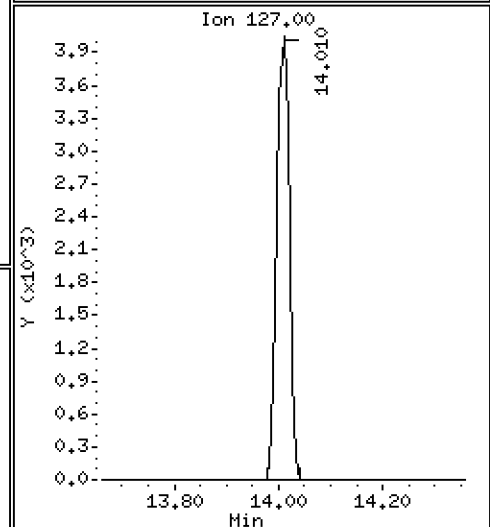
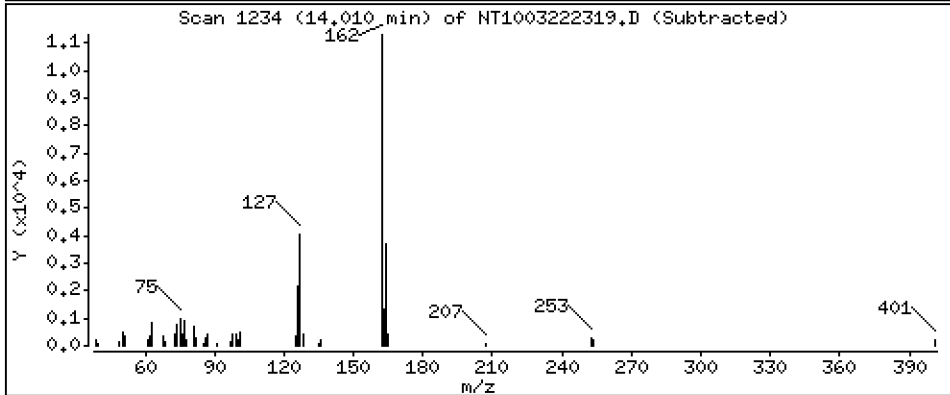
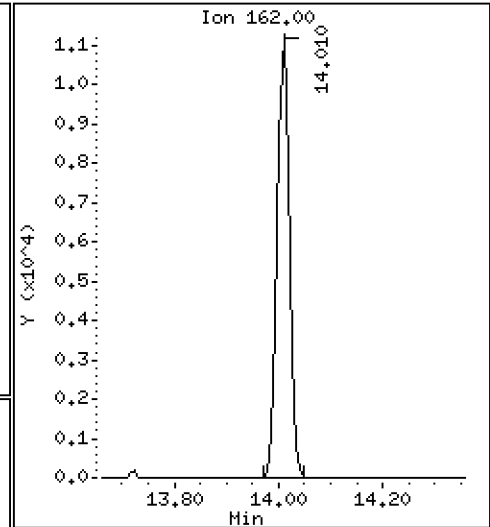
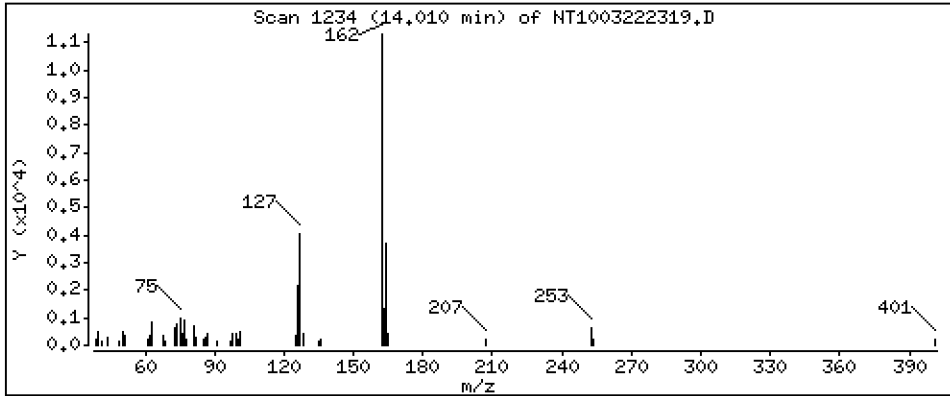
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,2044 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

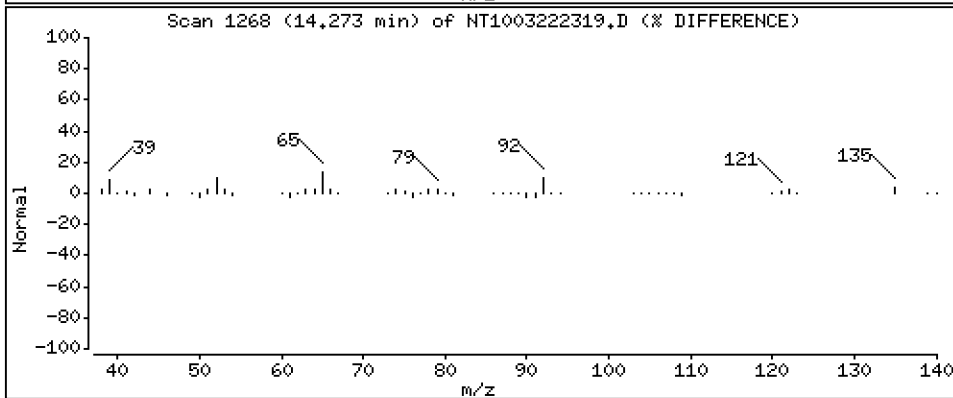
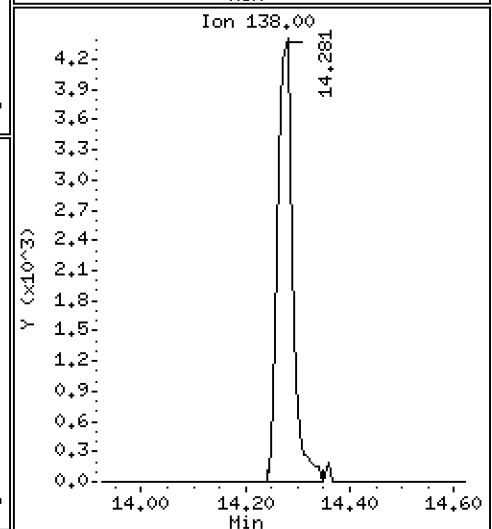
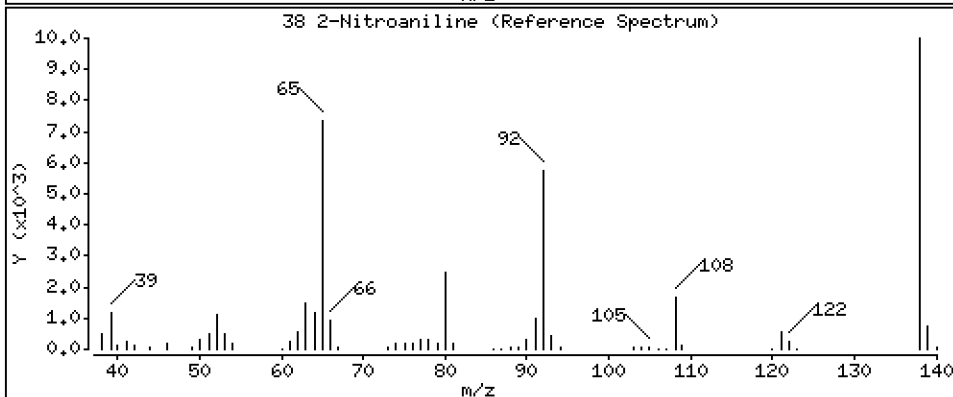
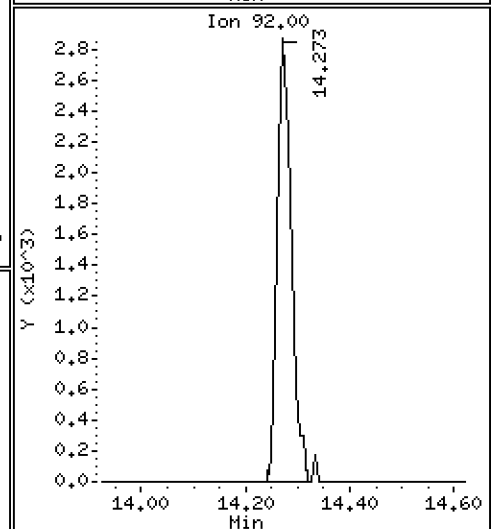
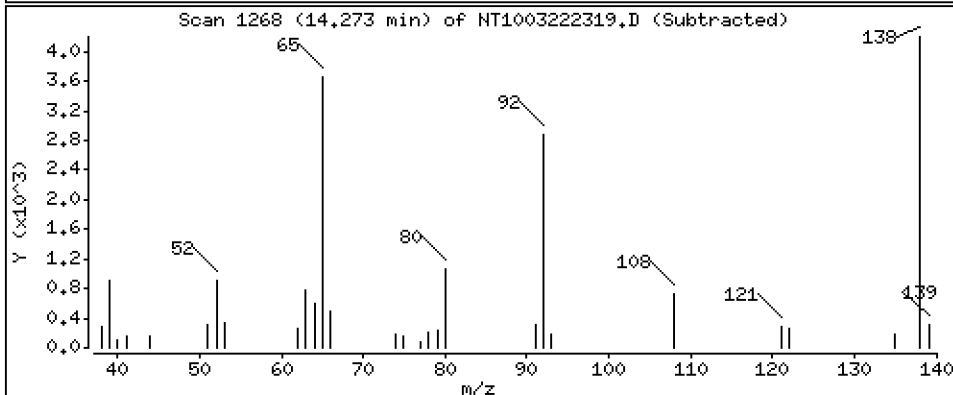
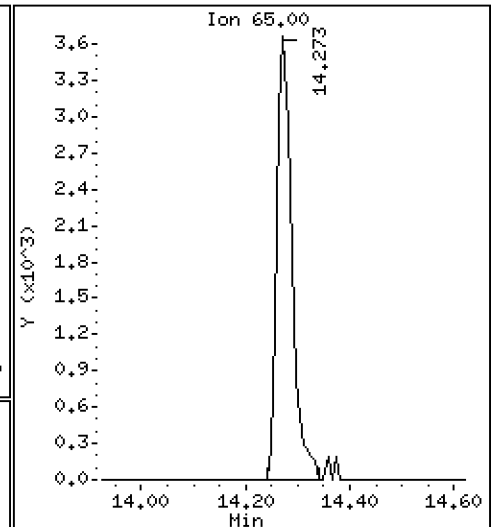
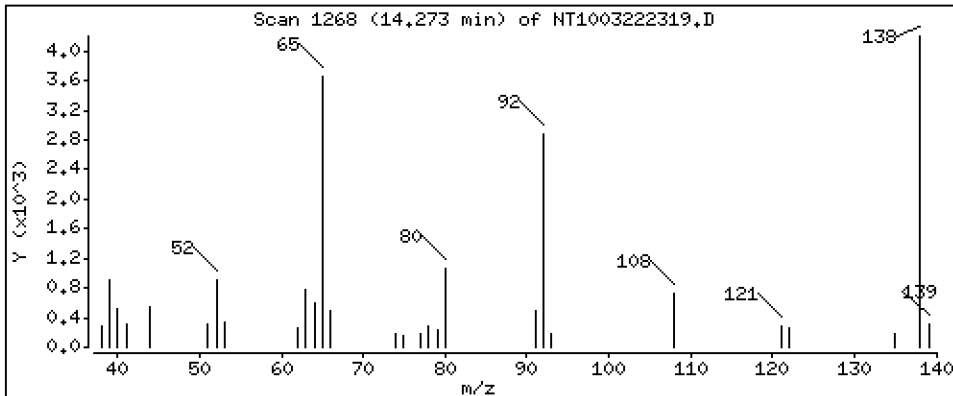
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,3006 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

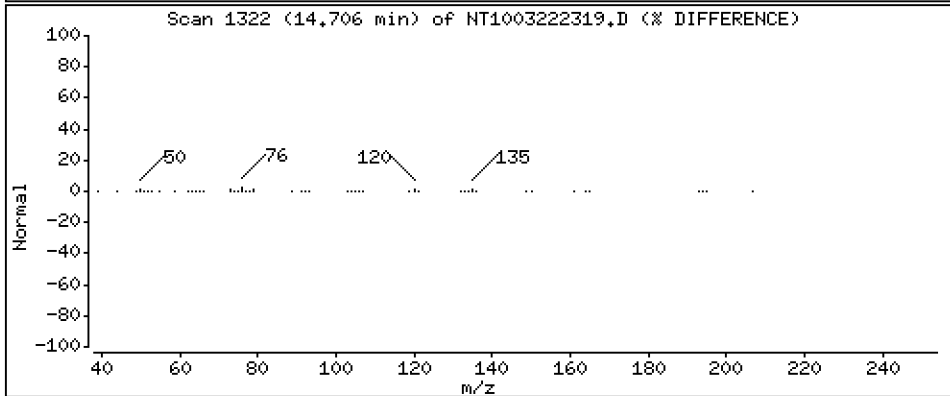
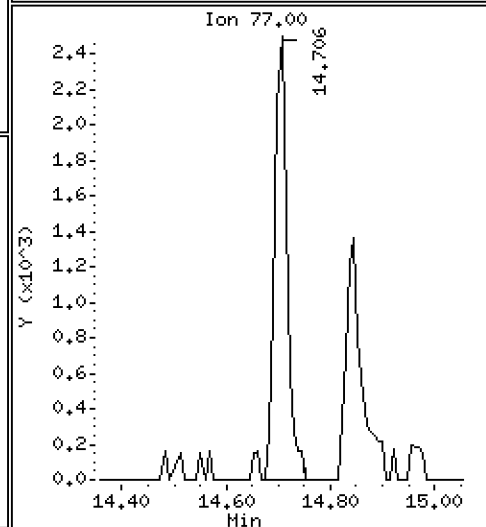
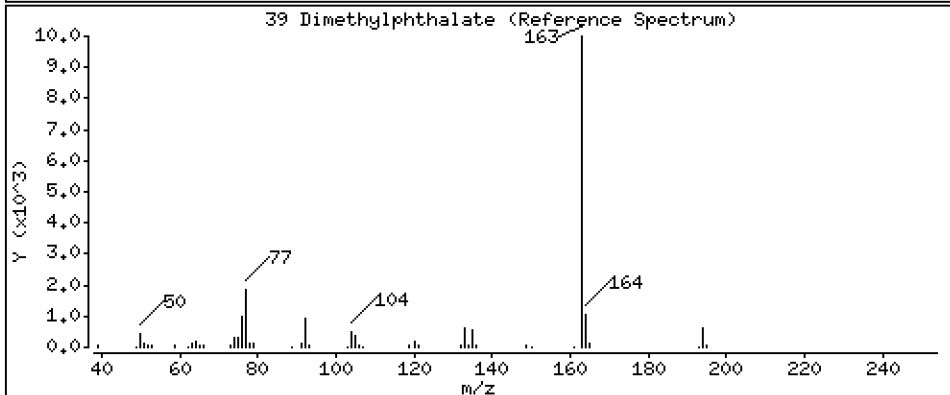
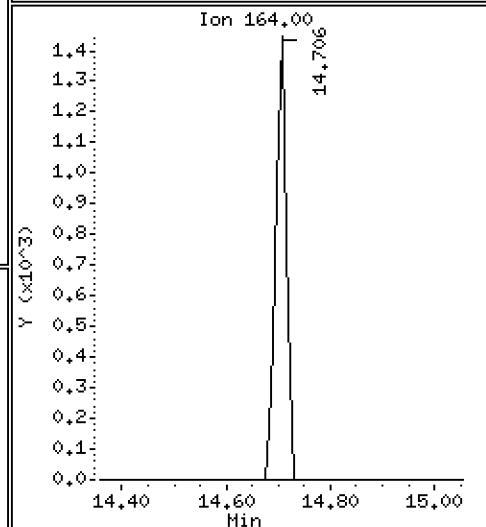
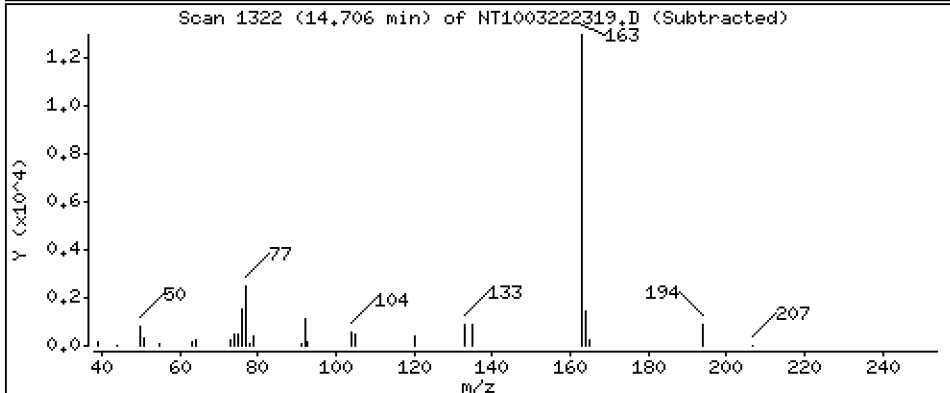
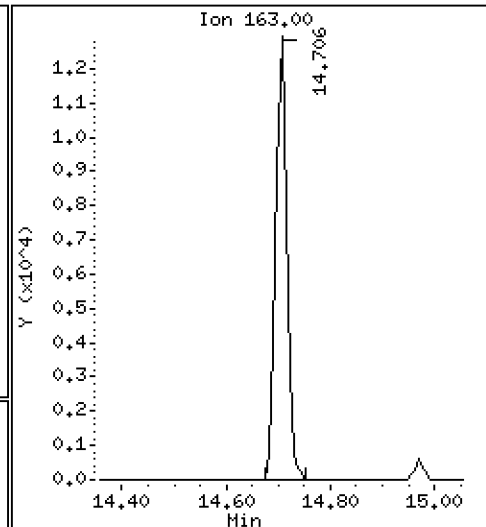
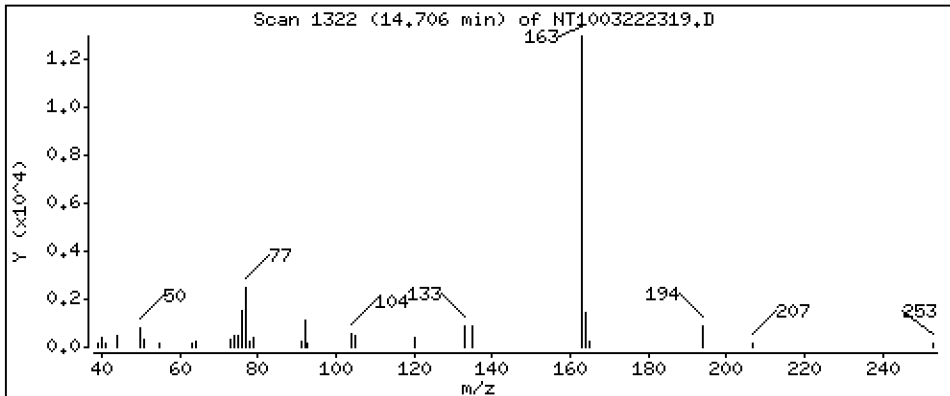
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2123 ug/mL





Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

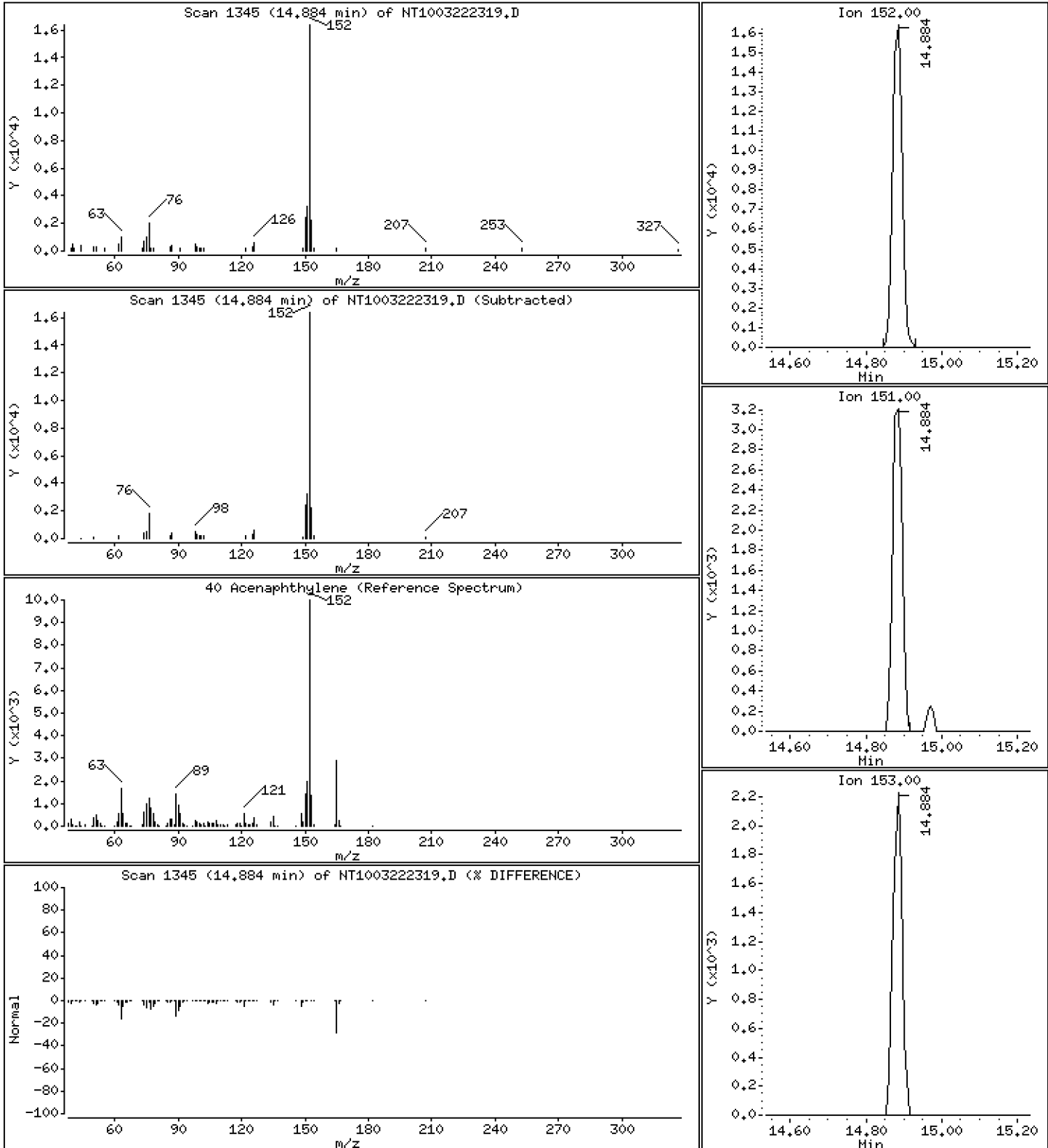
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2078 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

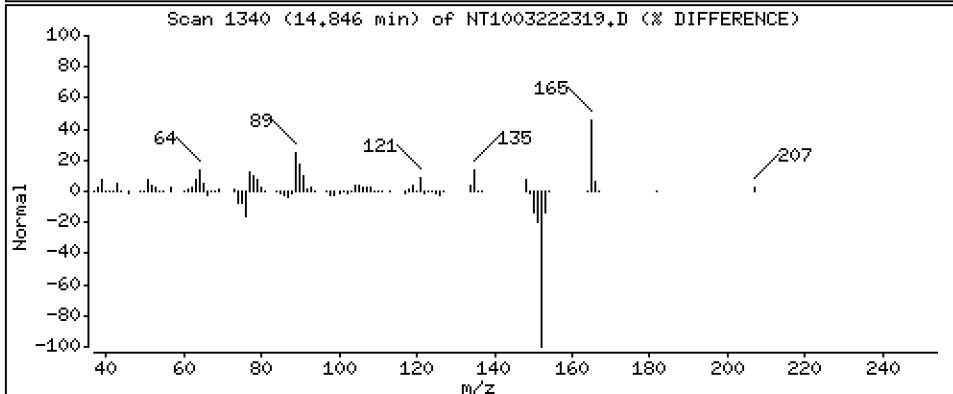
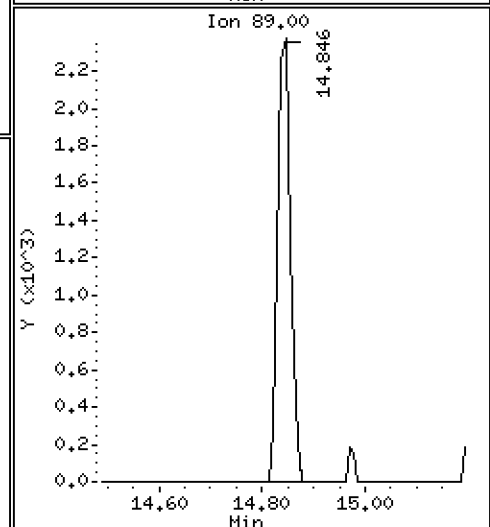
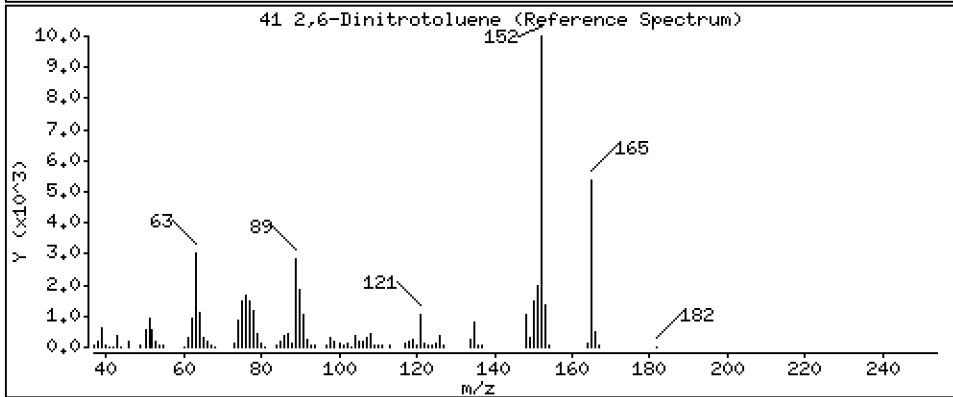
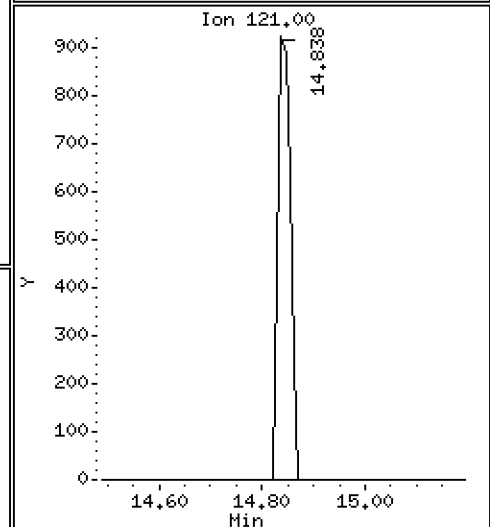
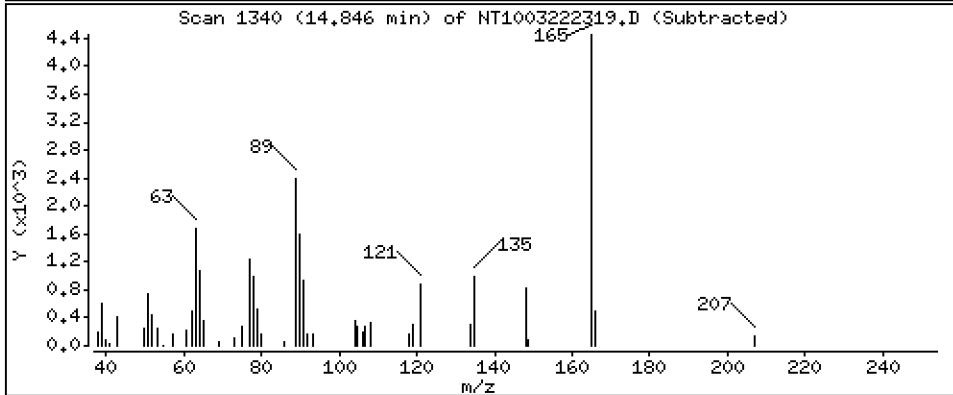
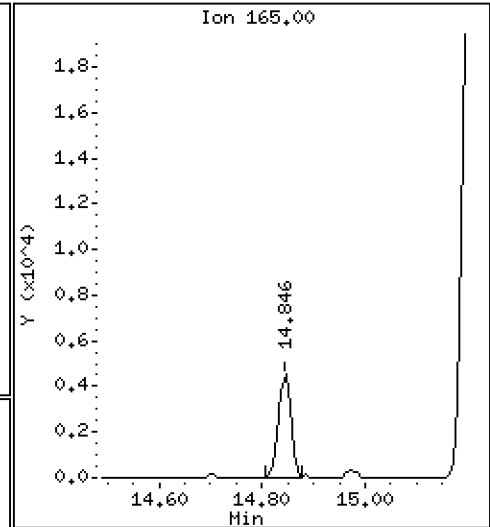
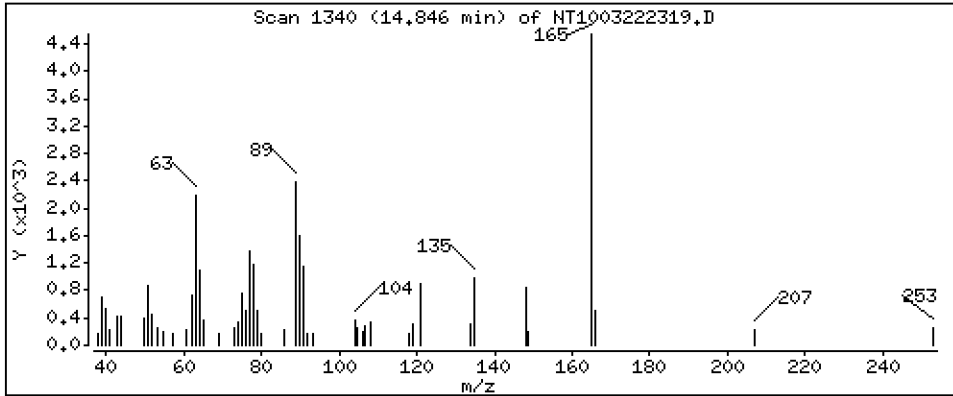
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 0,3889 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

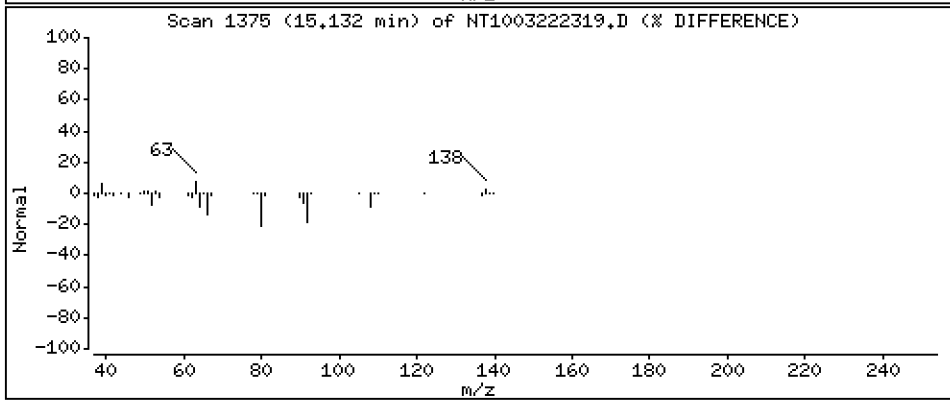
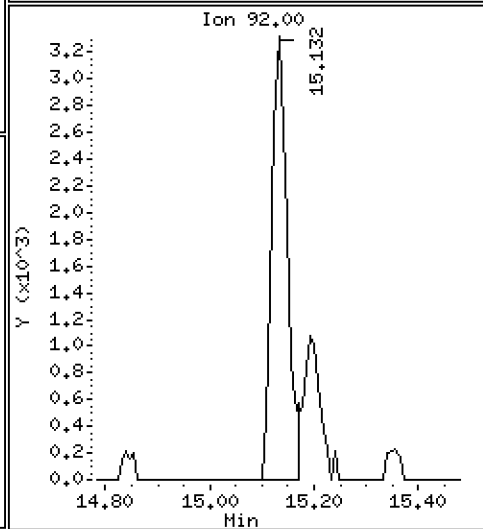
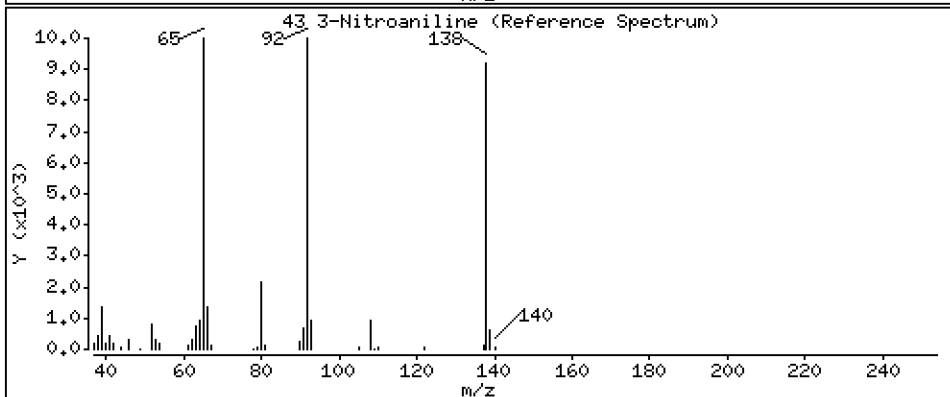
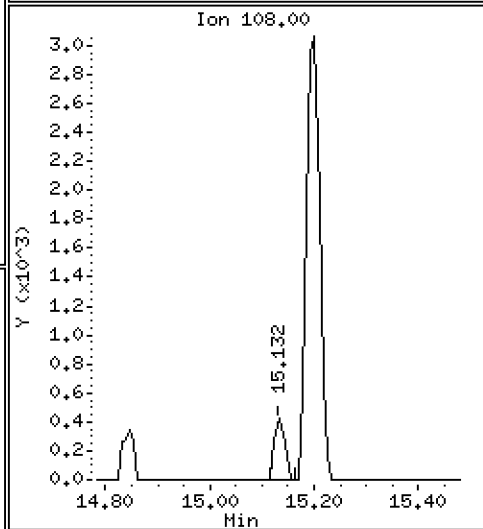
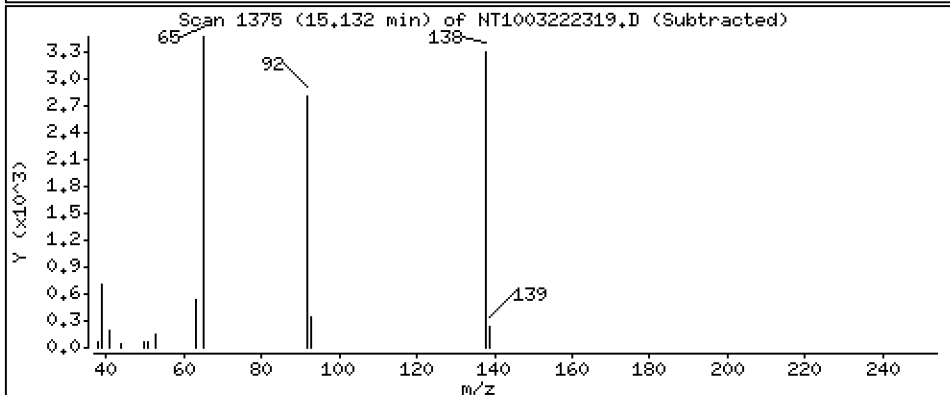
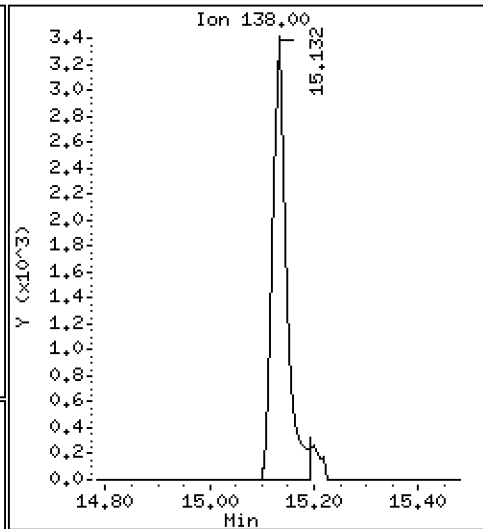
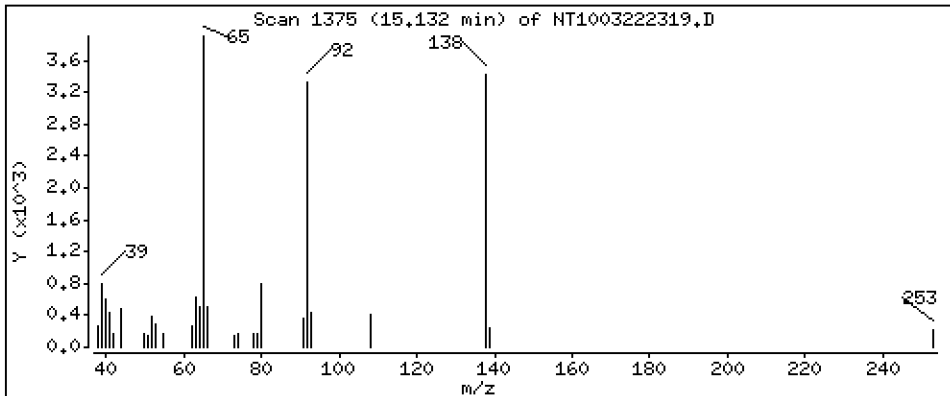
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,2954 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

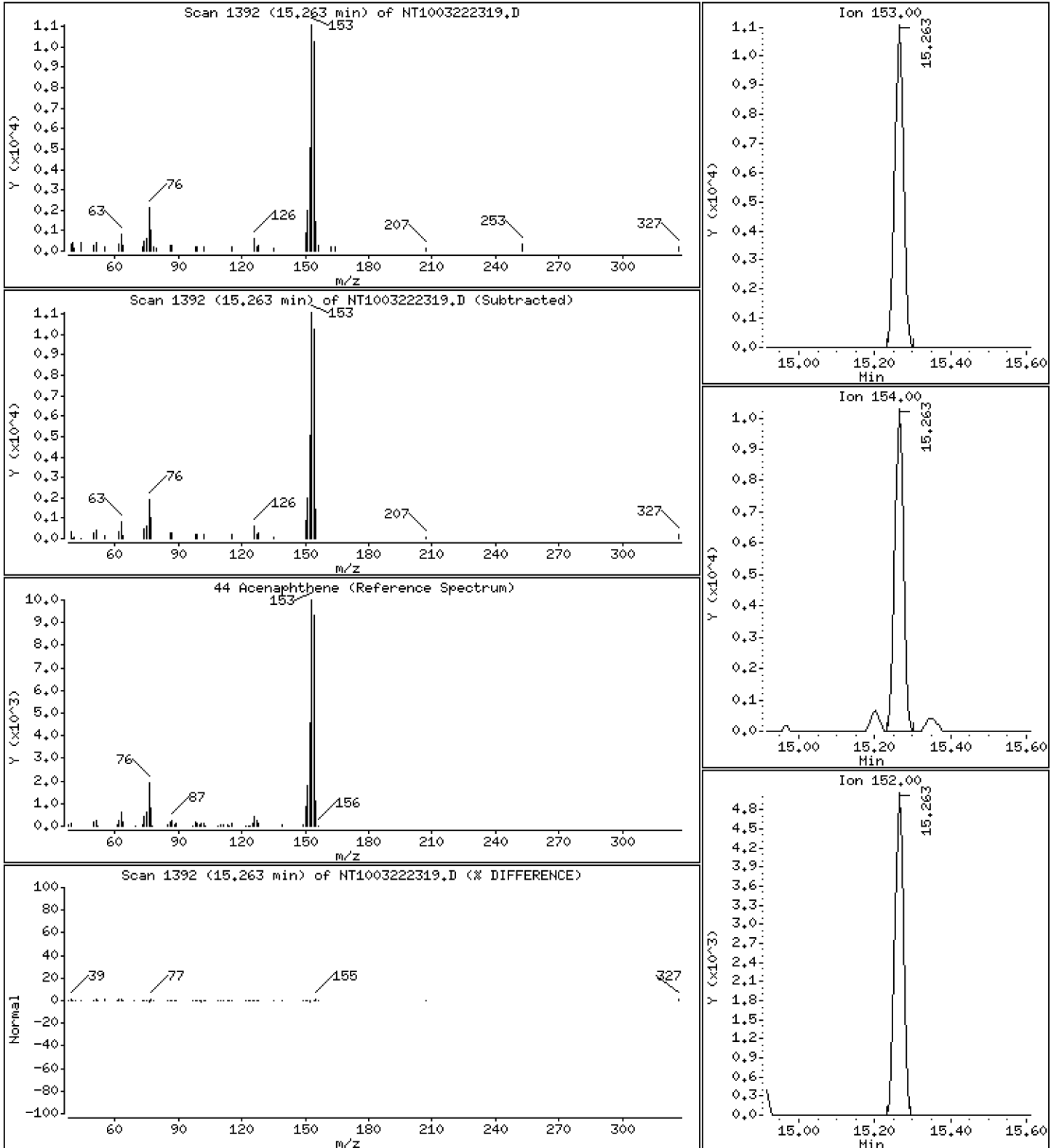
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 0.2064 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

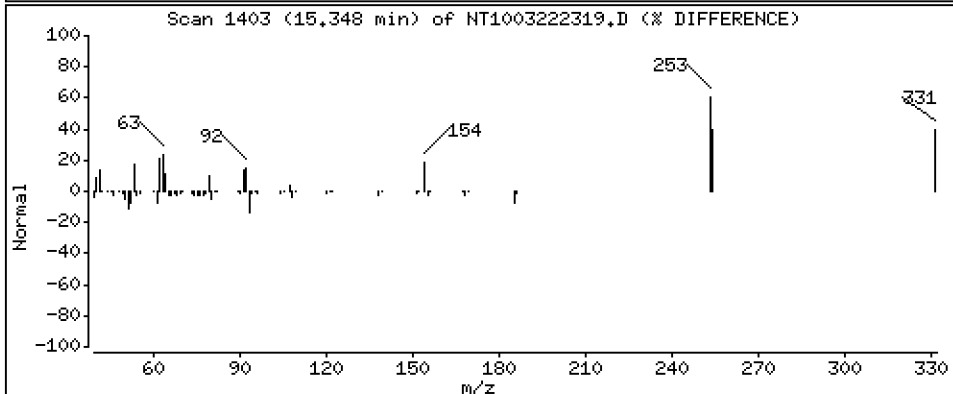
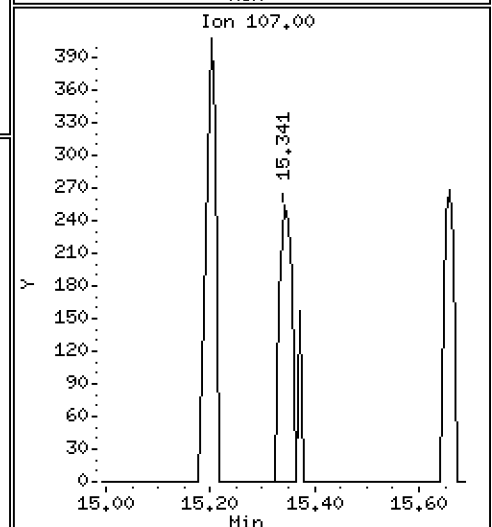
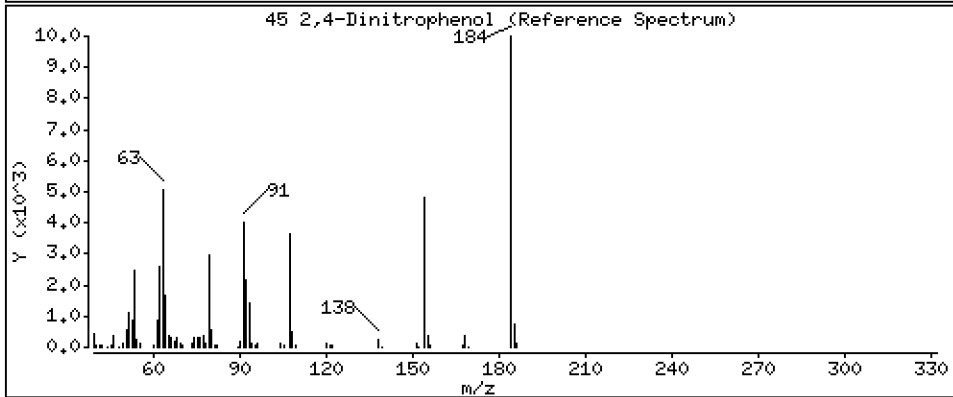
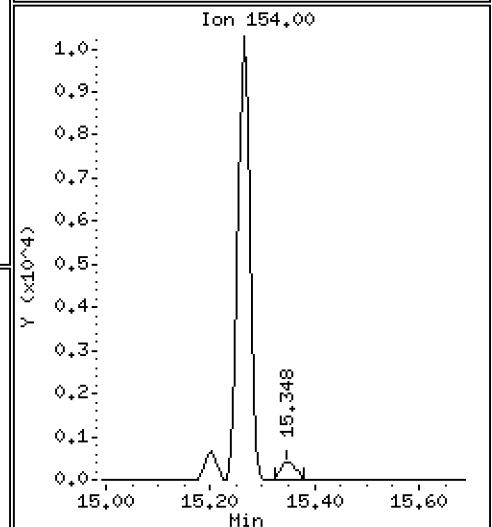
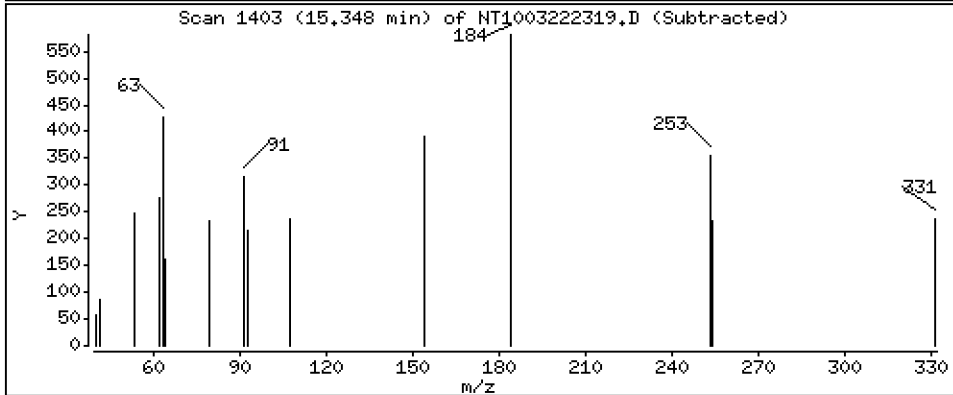
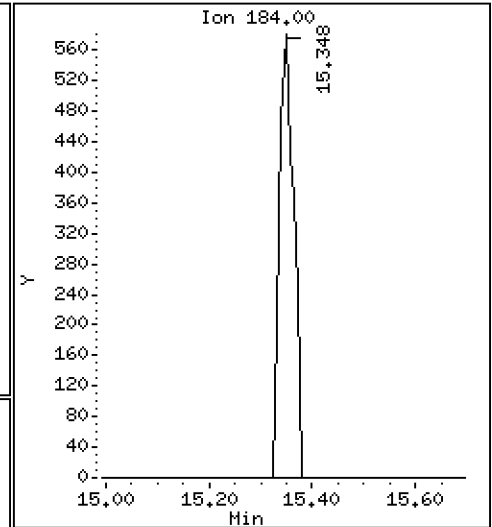
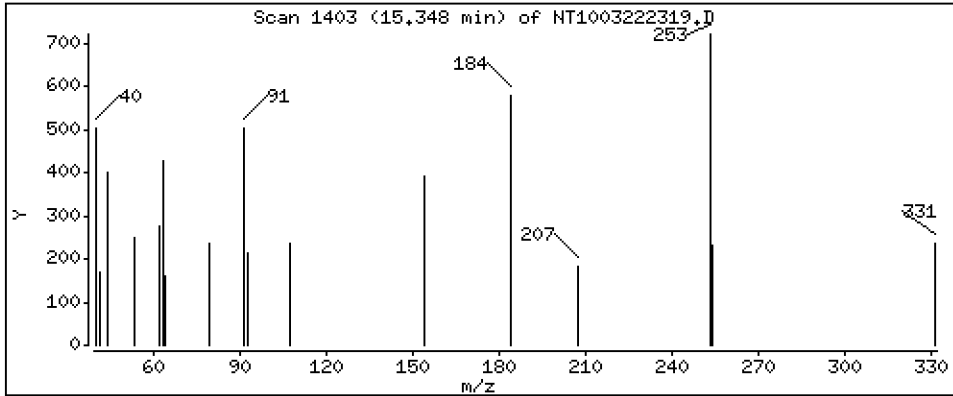
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,09523 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

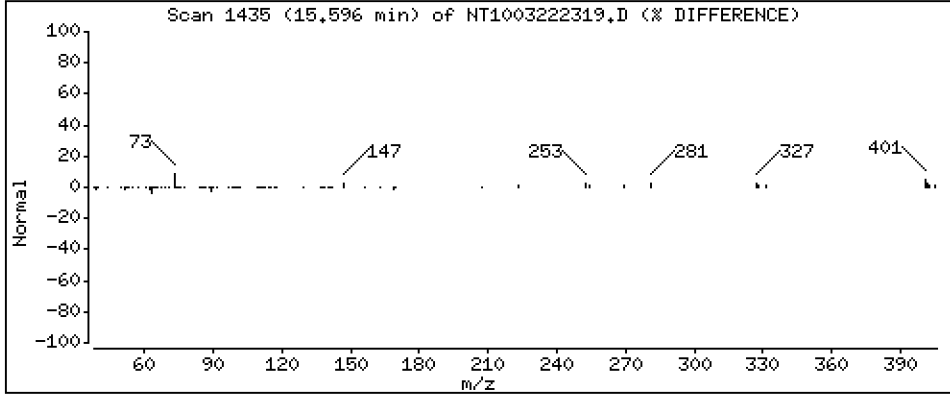
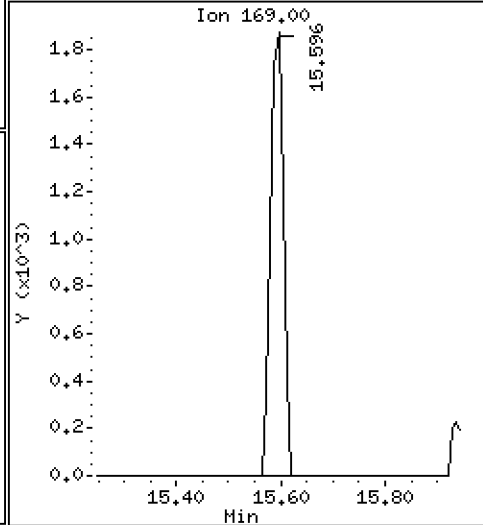
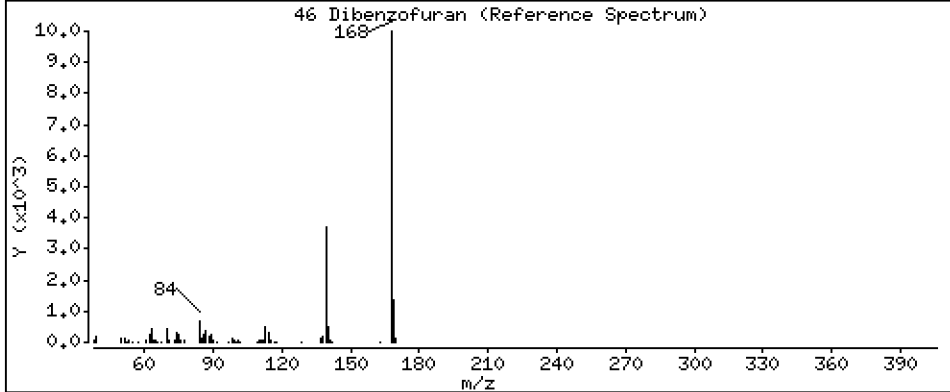
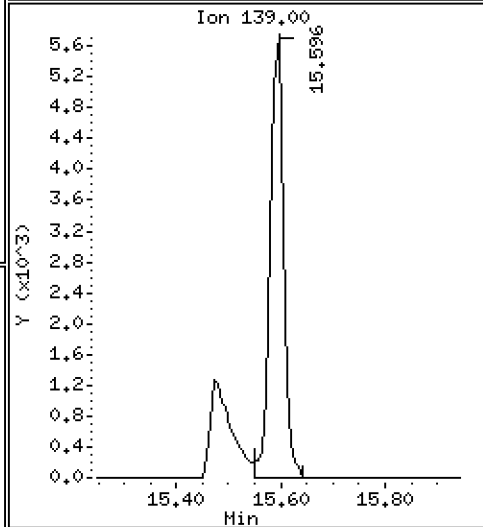
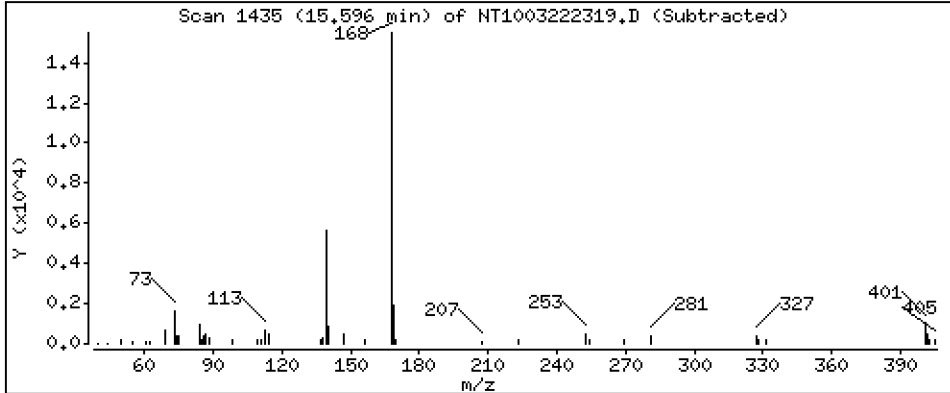
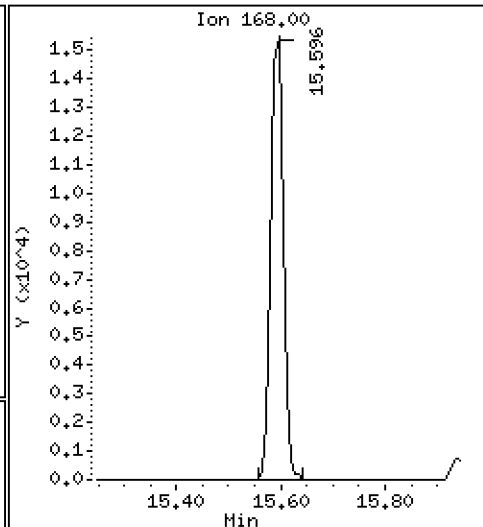
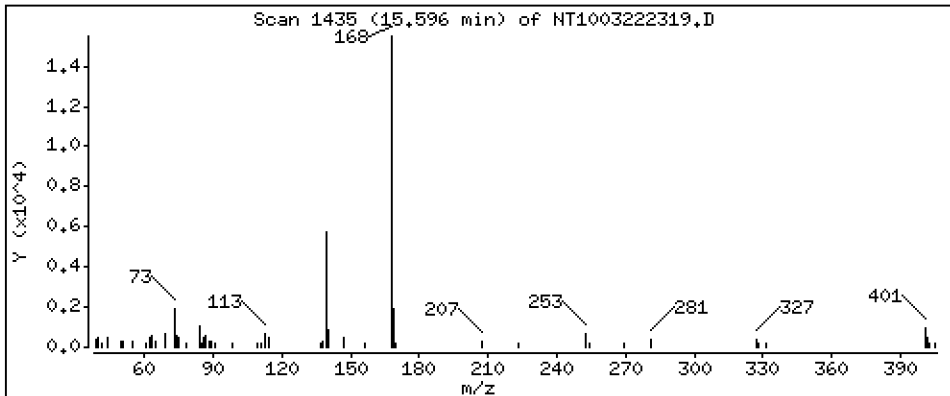
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,2045 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

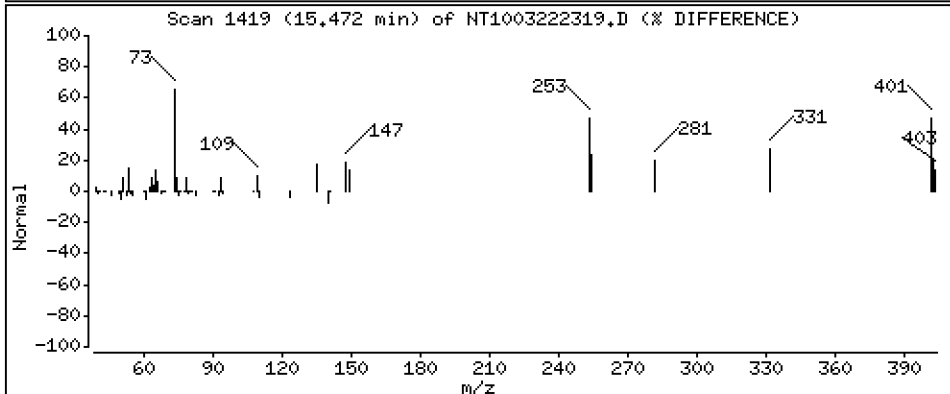
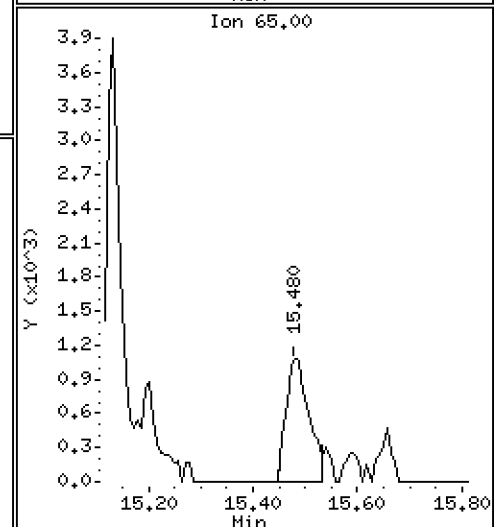
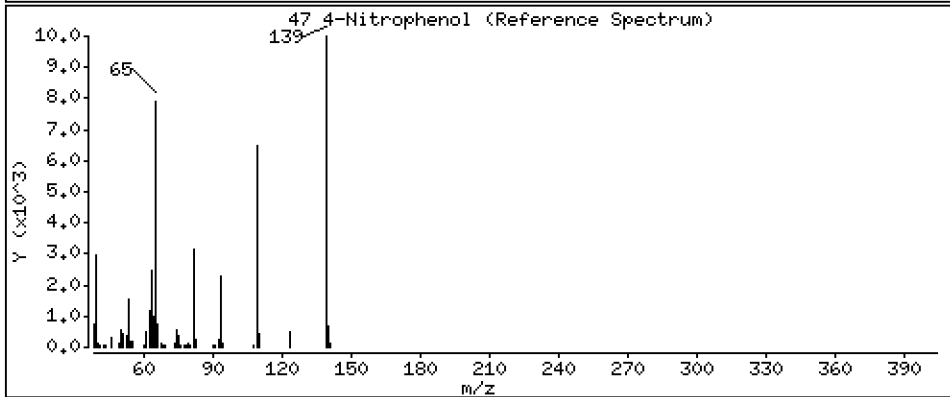
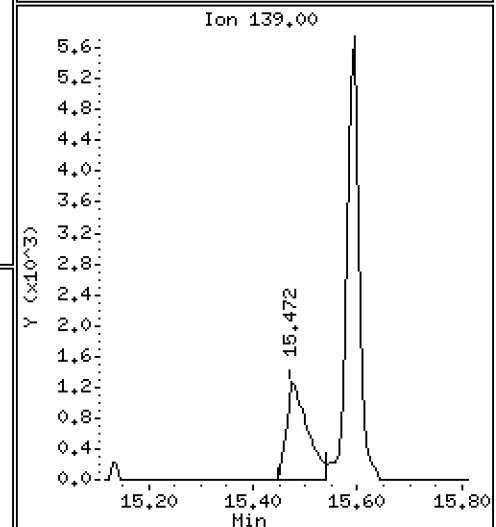
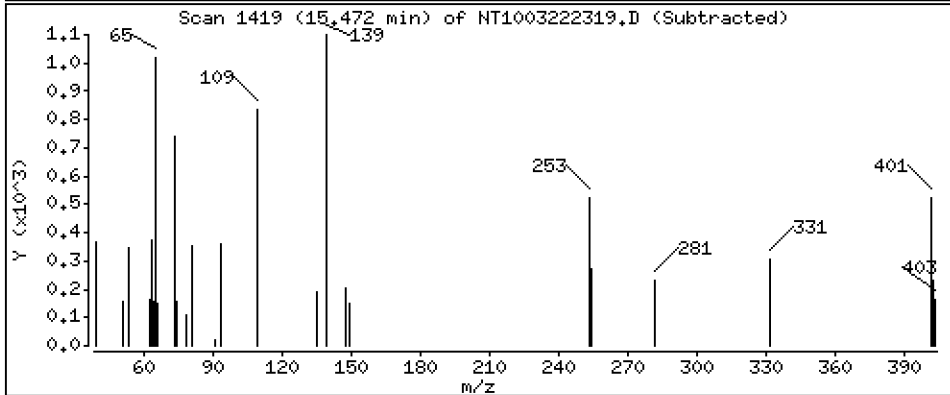
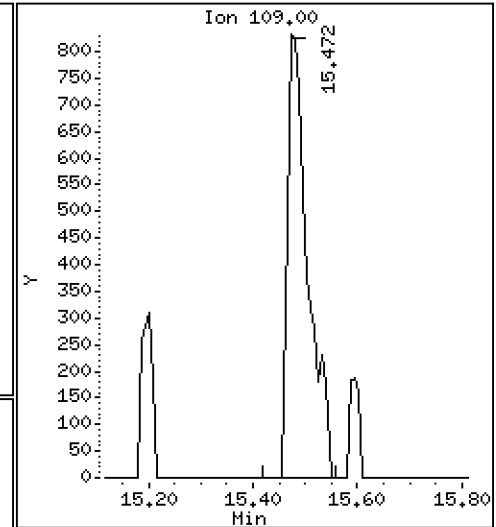
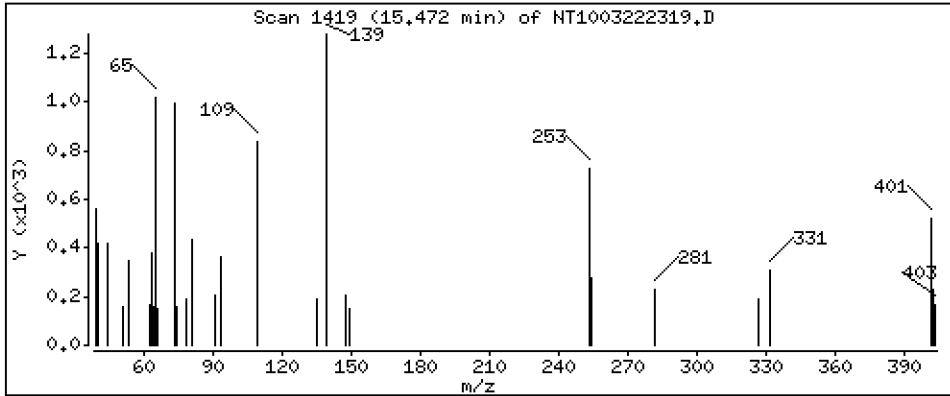
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

47 4-Nitrophenol

Concentration: 0.1763 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

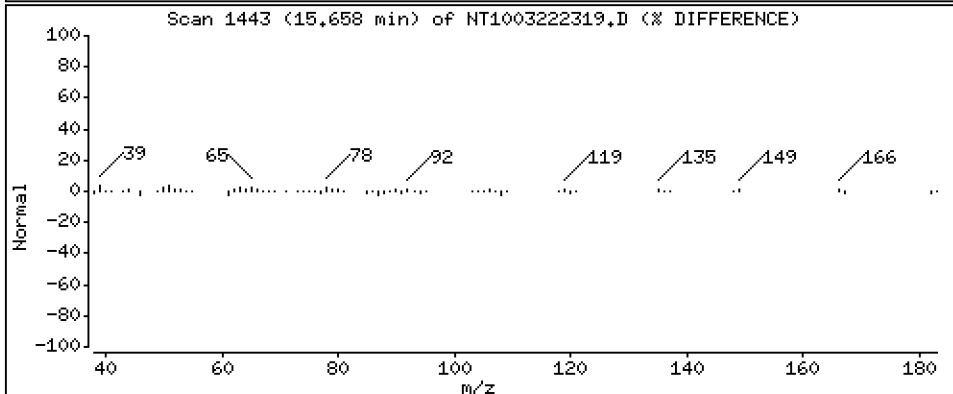
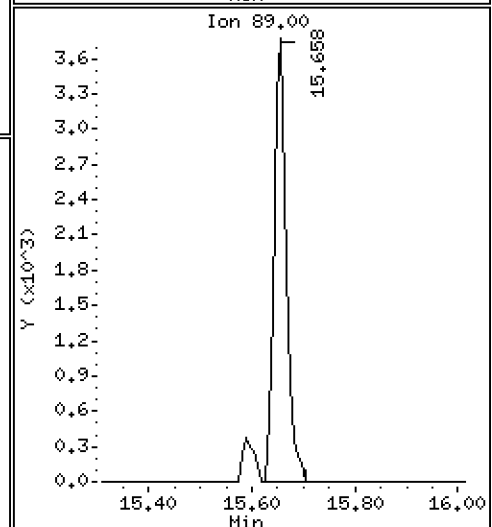
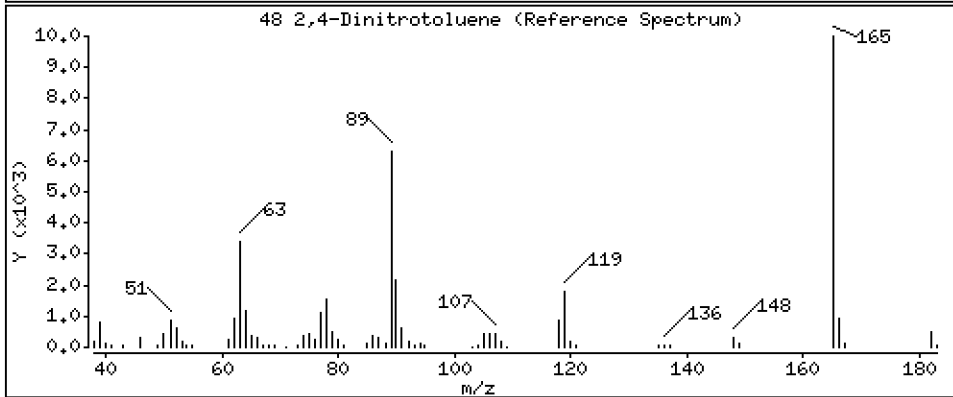
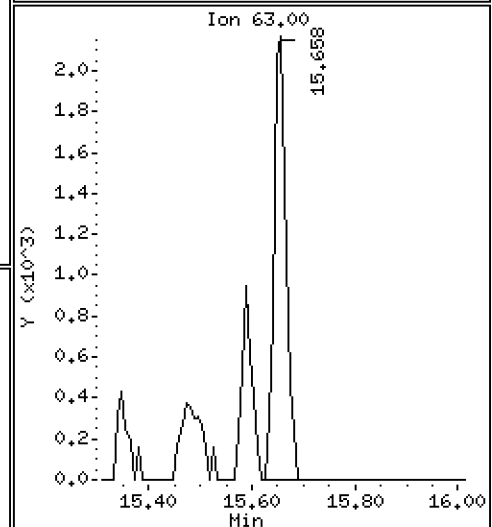
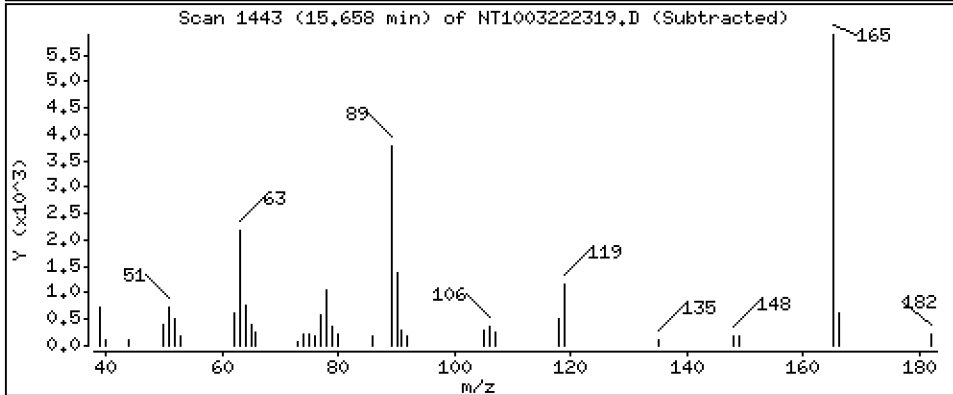
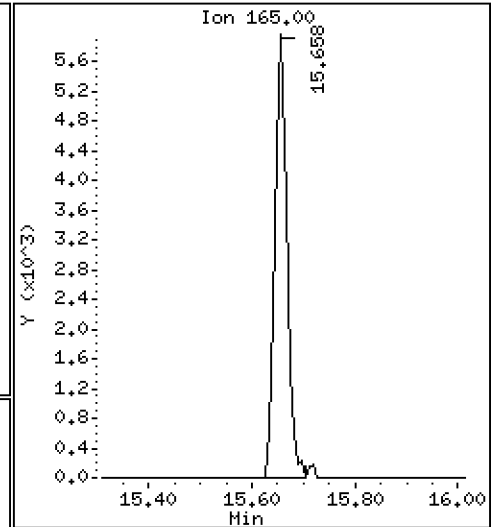
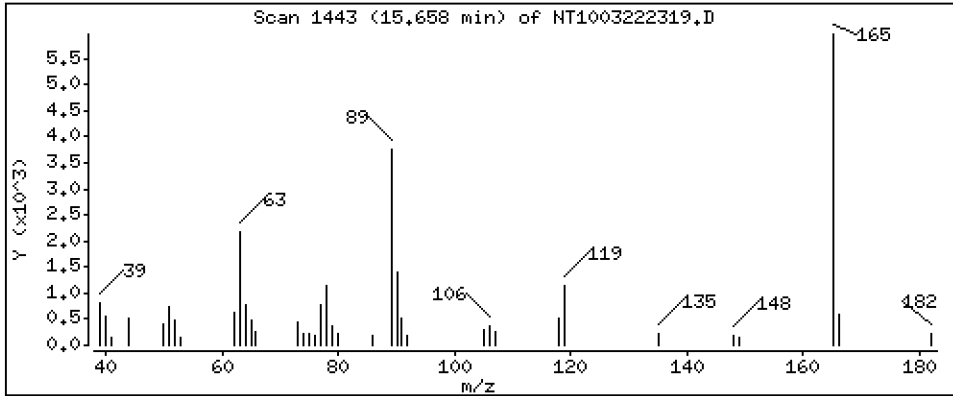
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 0,3239 ug/mL





Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

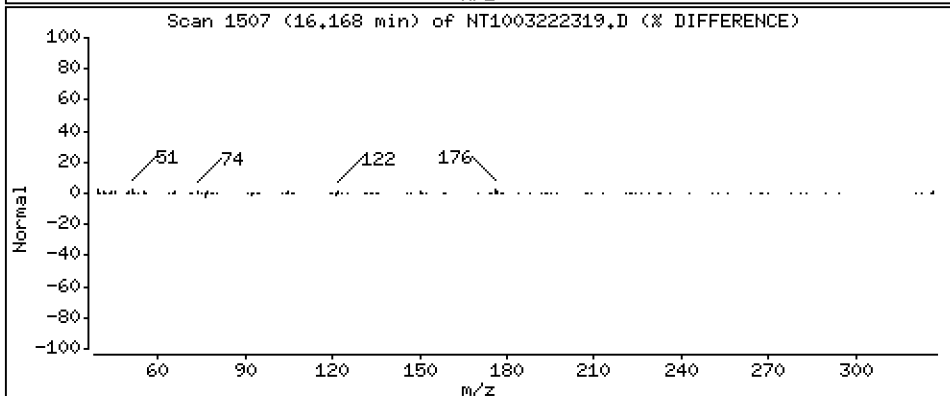
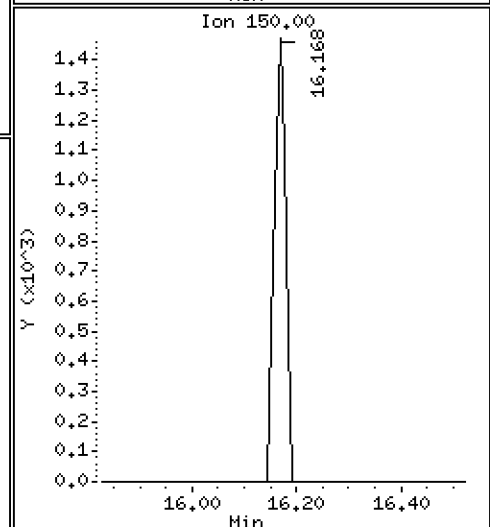
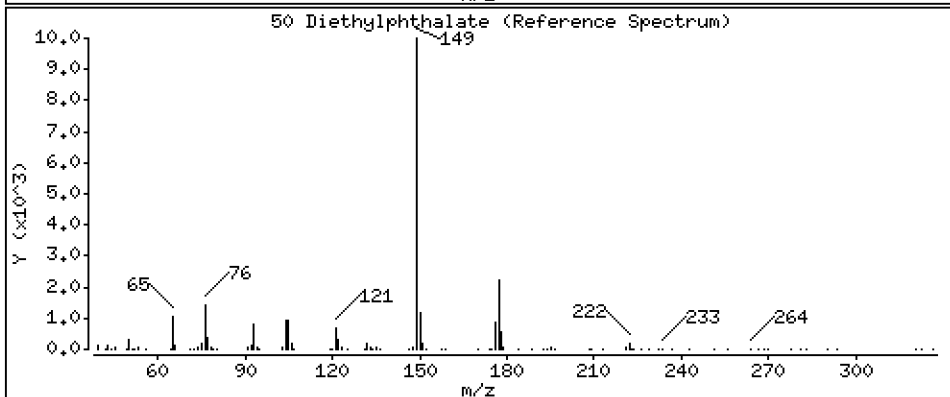
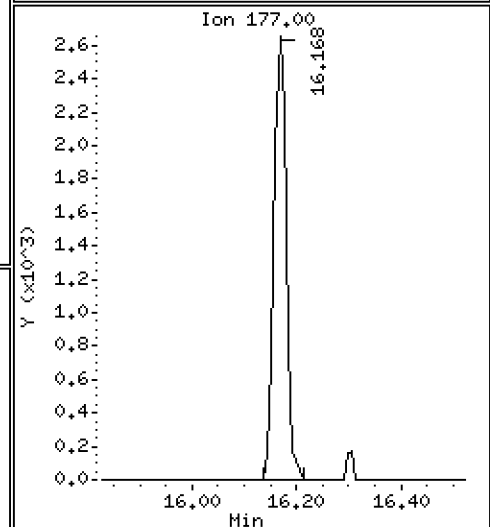
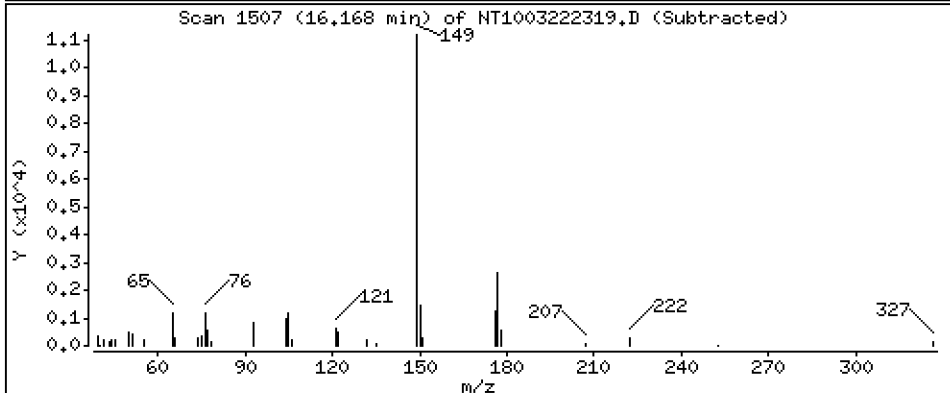
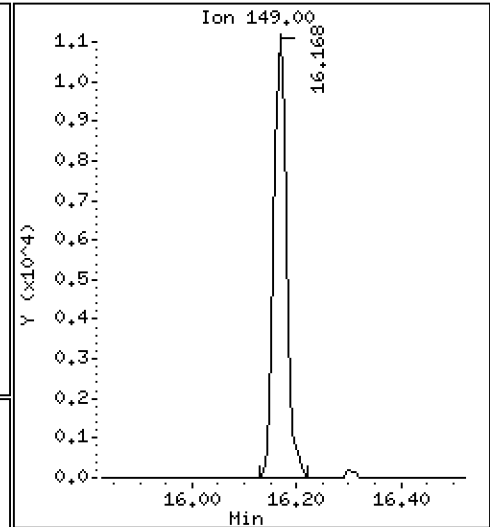
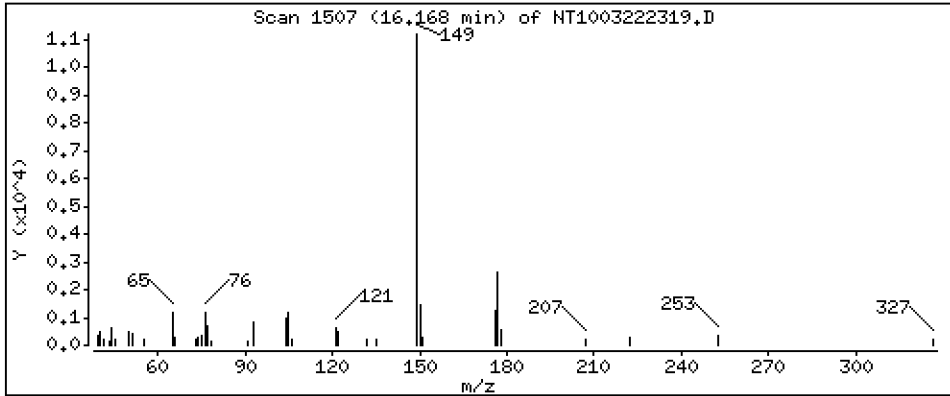
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2506 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

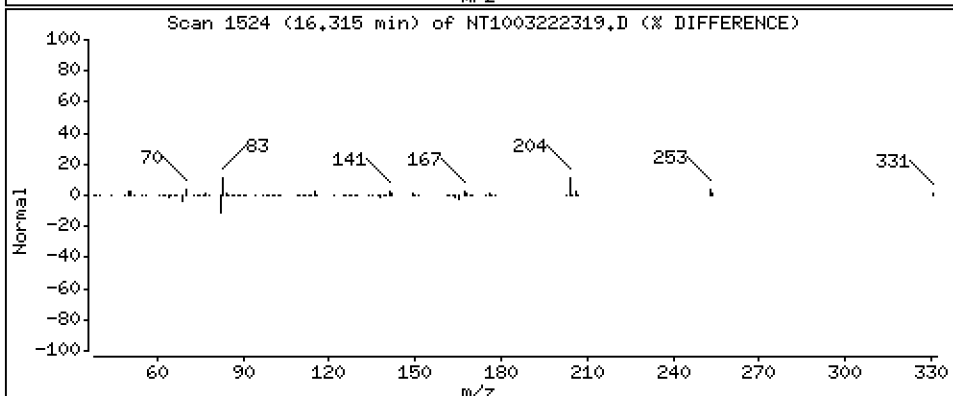
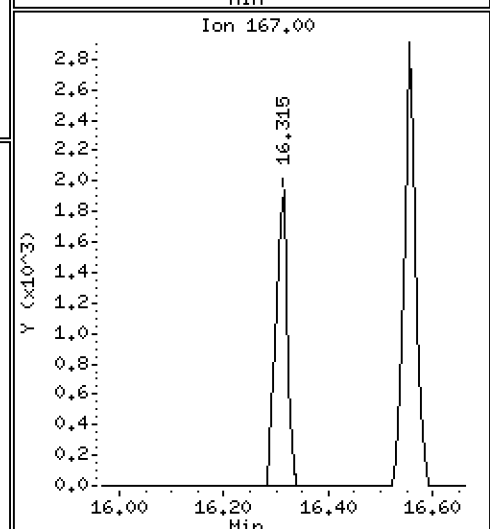
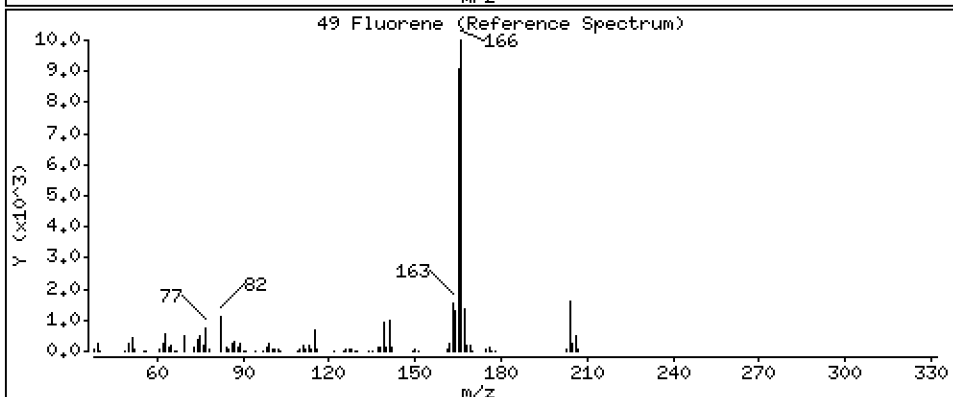
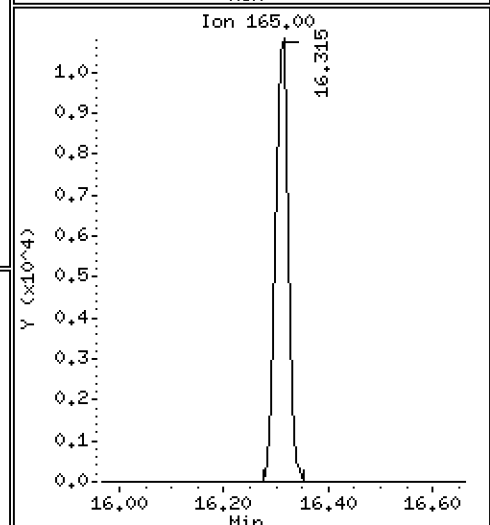
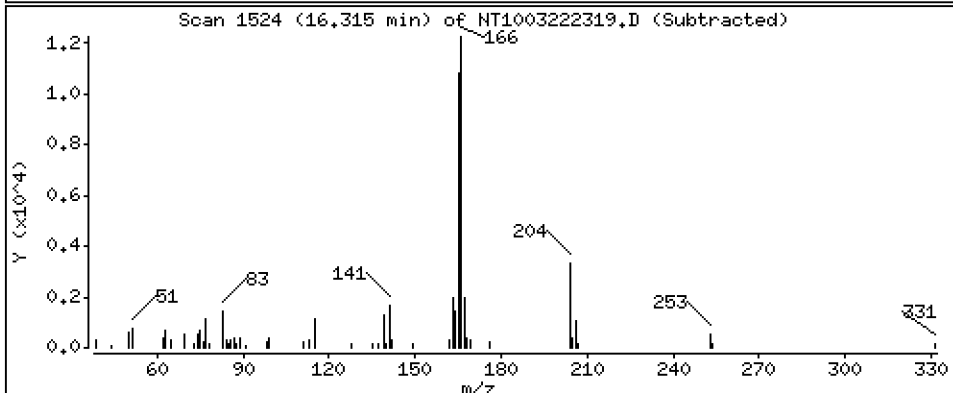
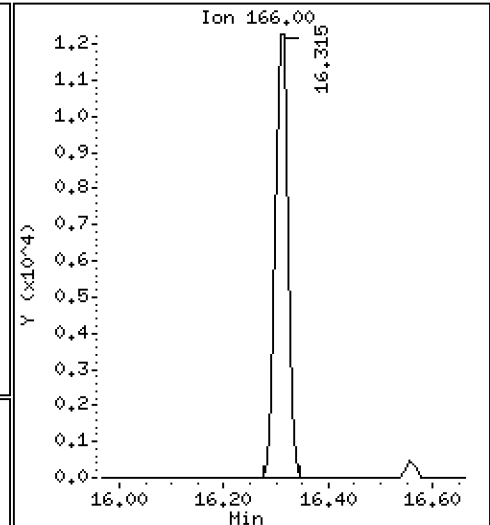
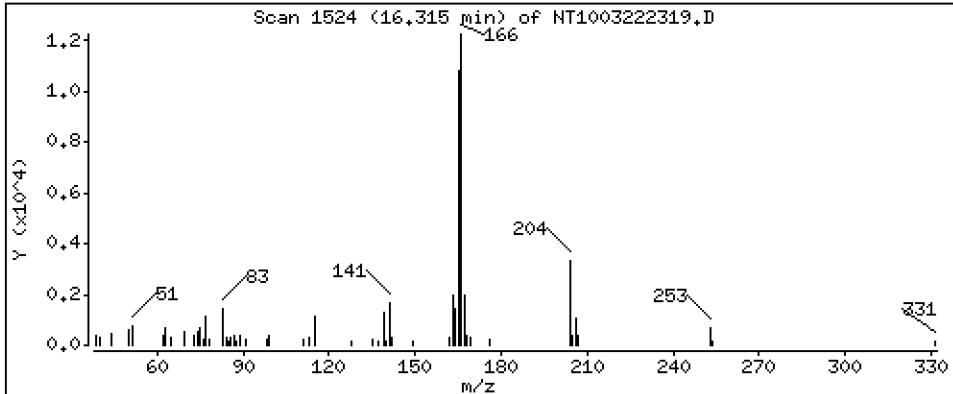
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 0.2117 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

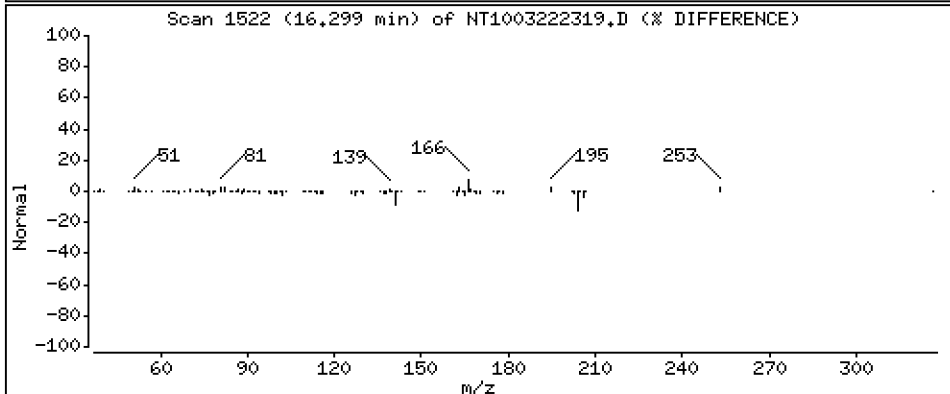
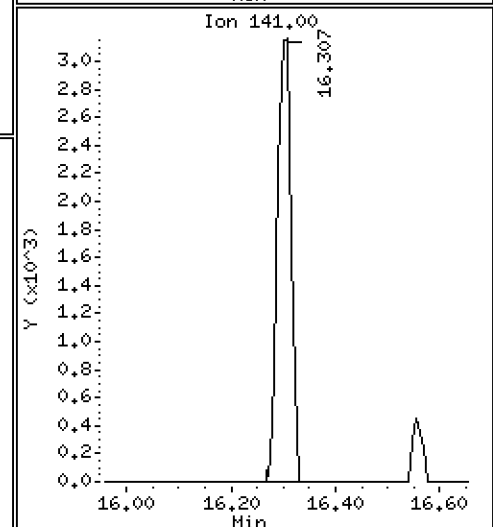
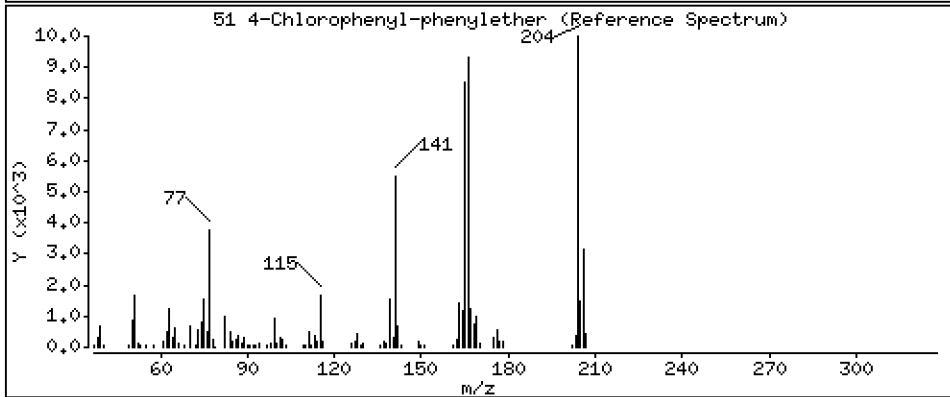
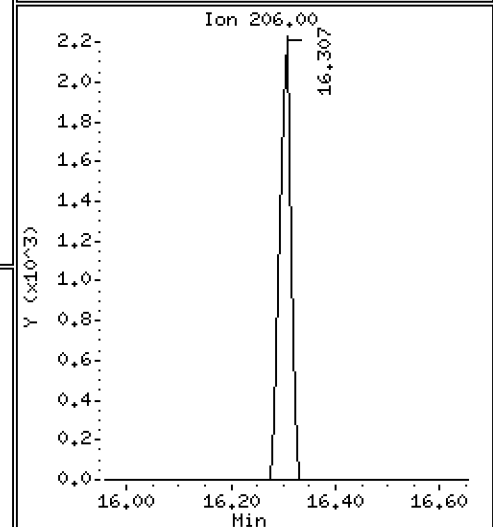
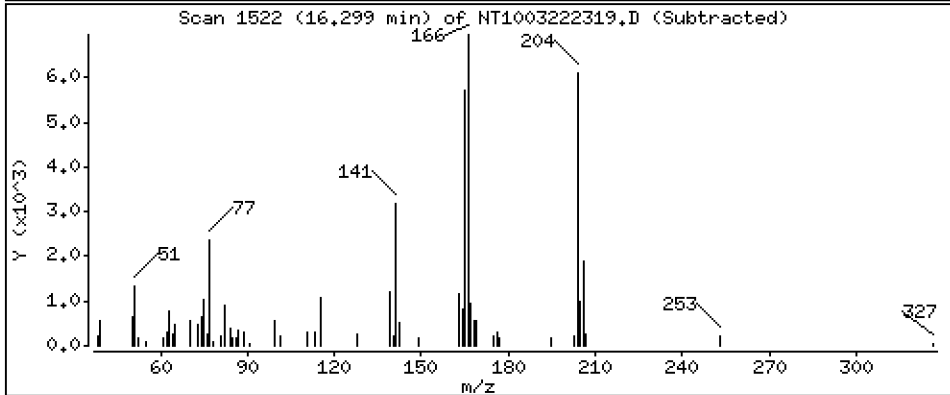
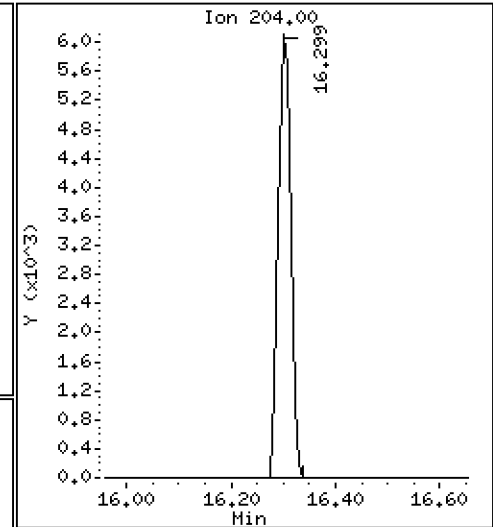
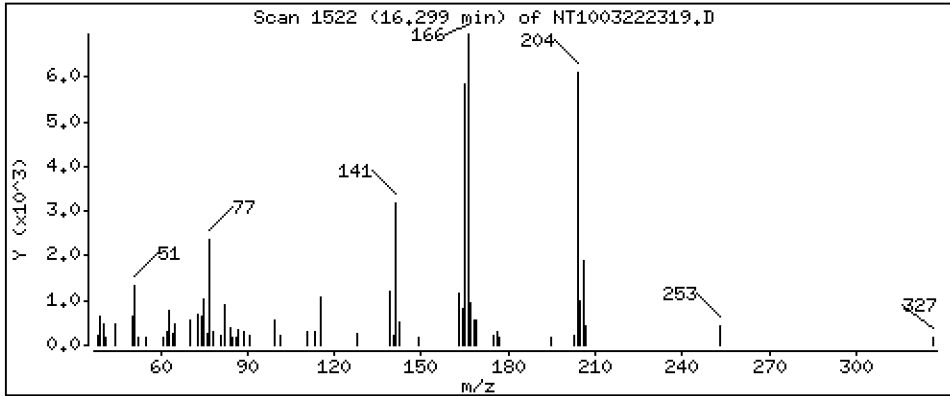
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,2194 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

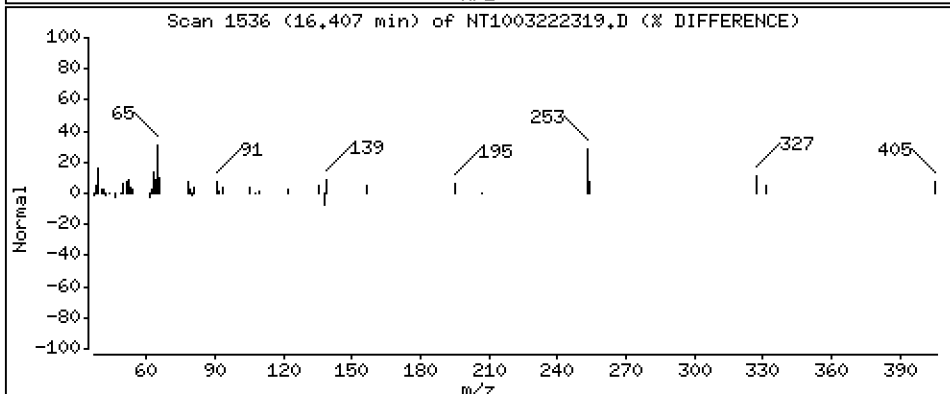
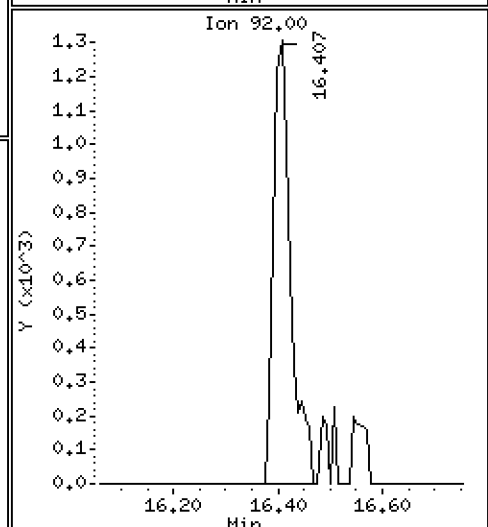
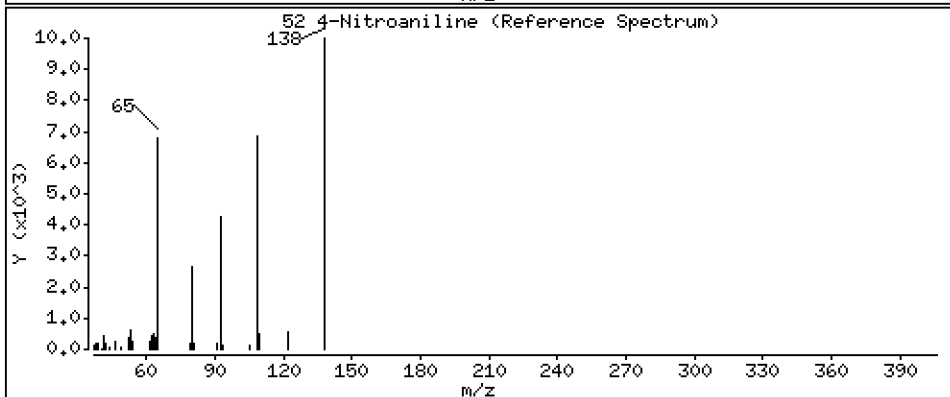
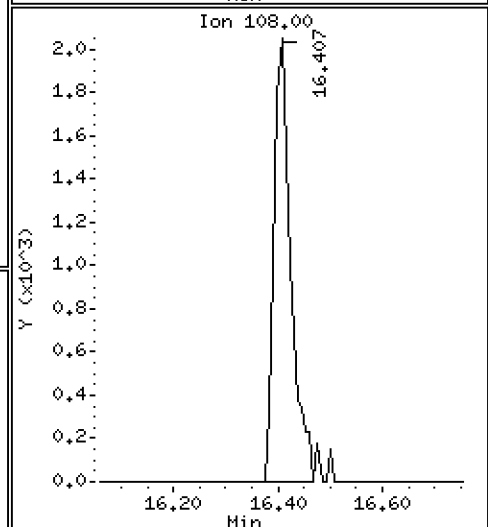
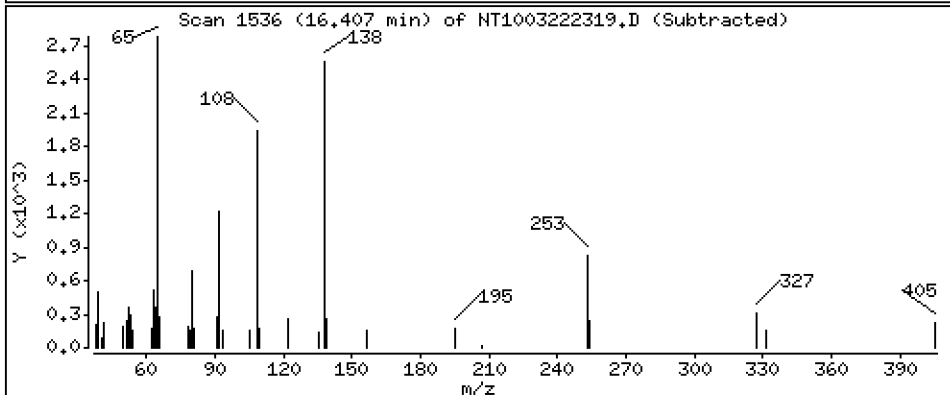
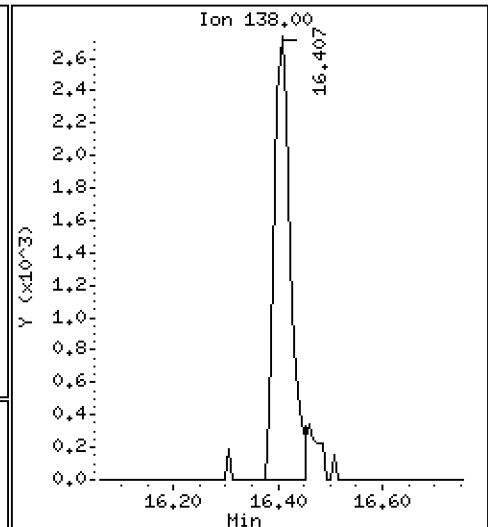
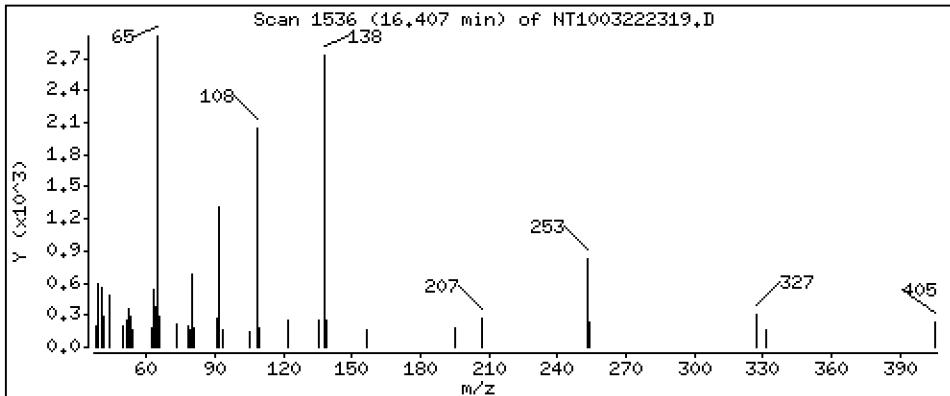
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,3071 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

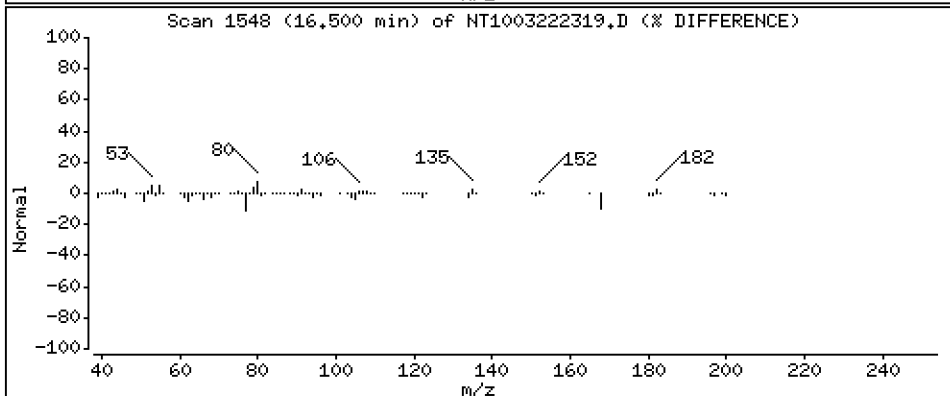
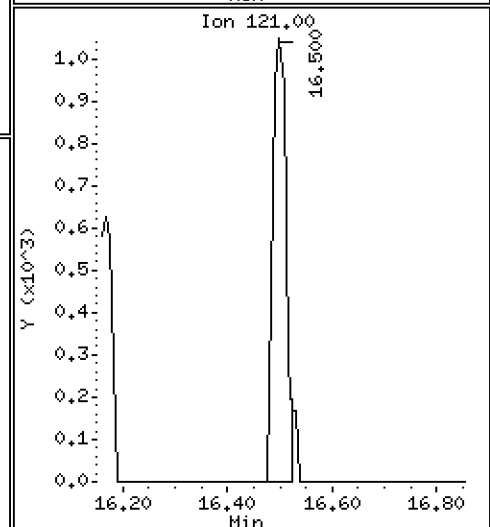
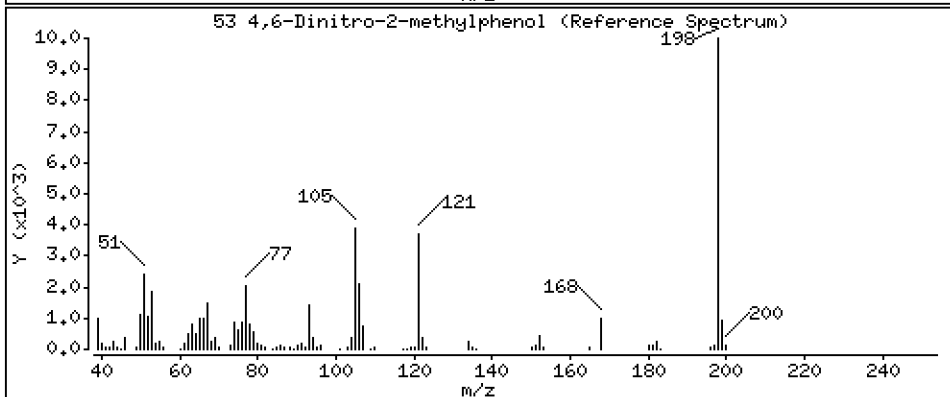
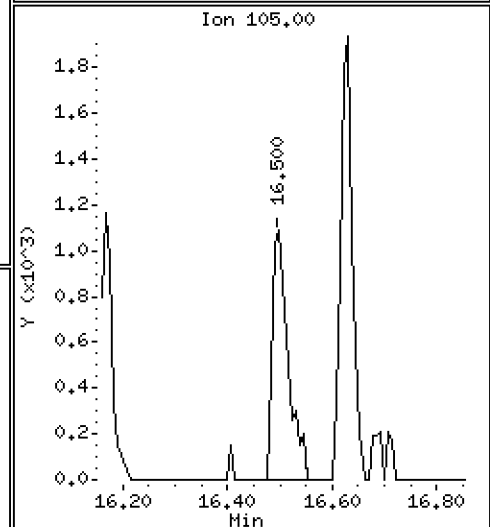
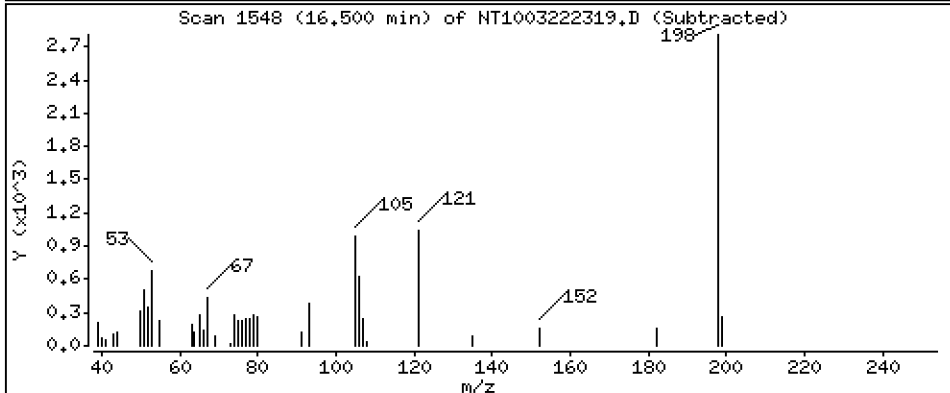
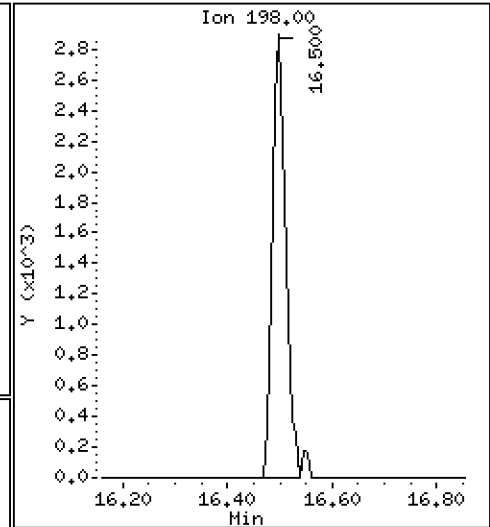
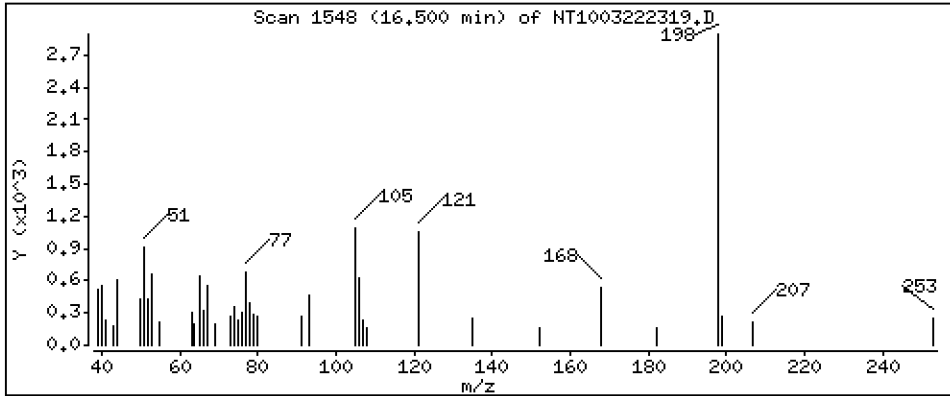
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,3306 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

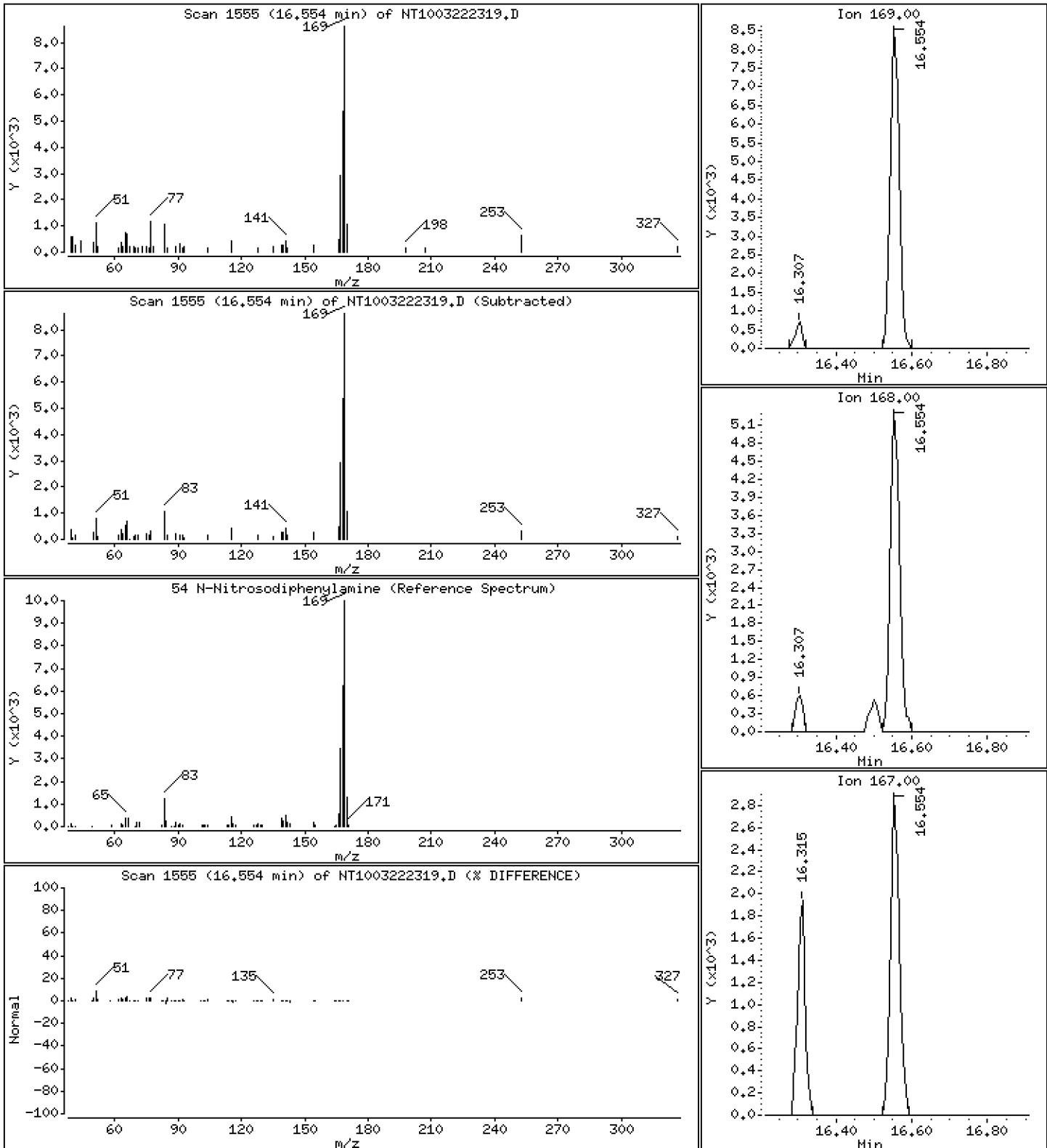
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 0.2033 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

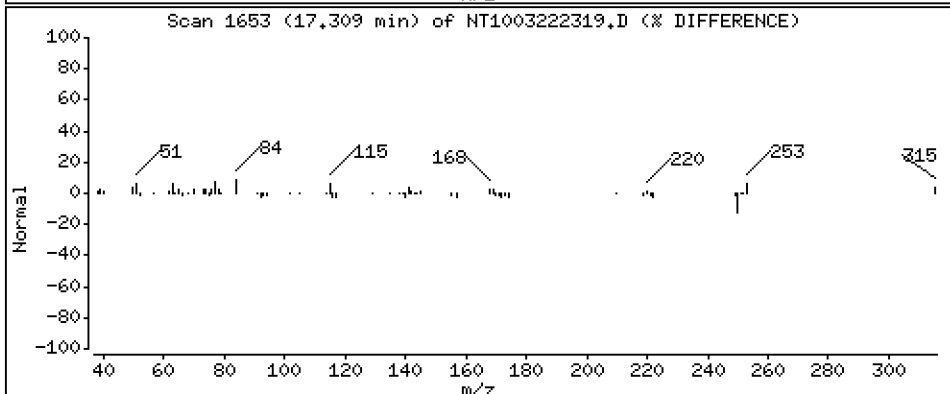
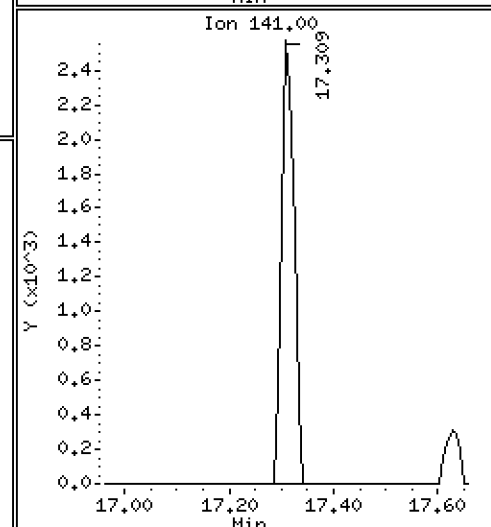
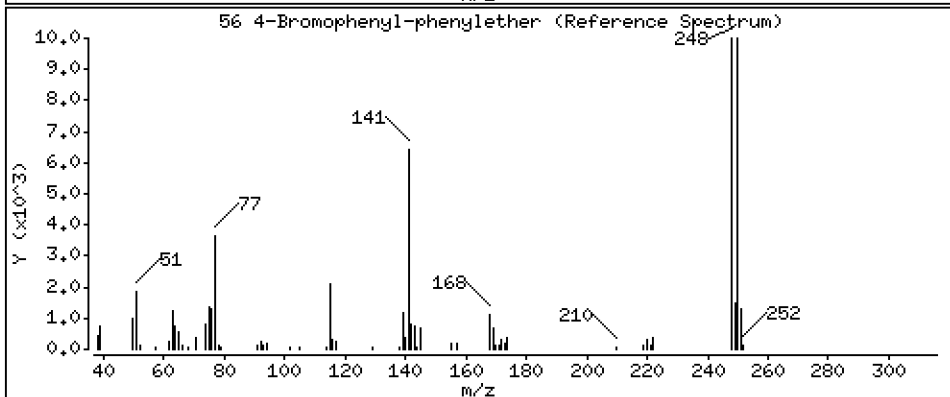
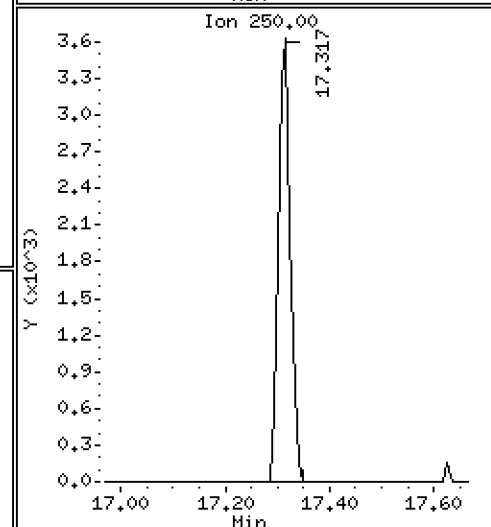
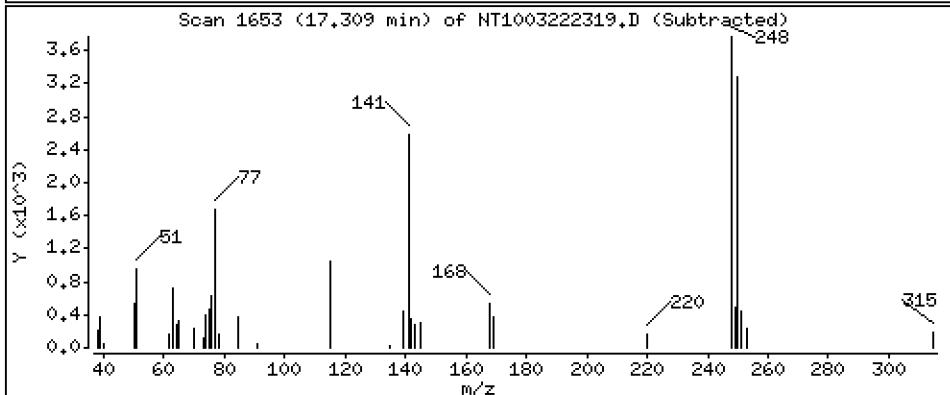
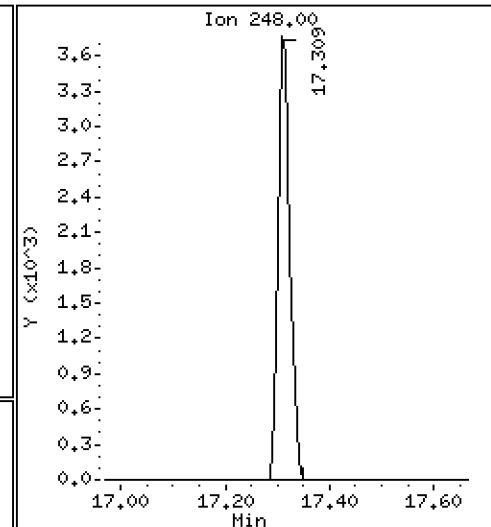
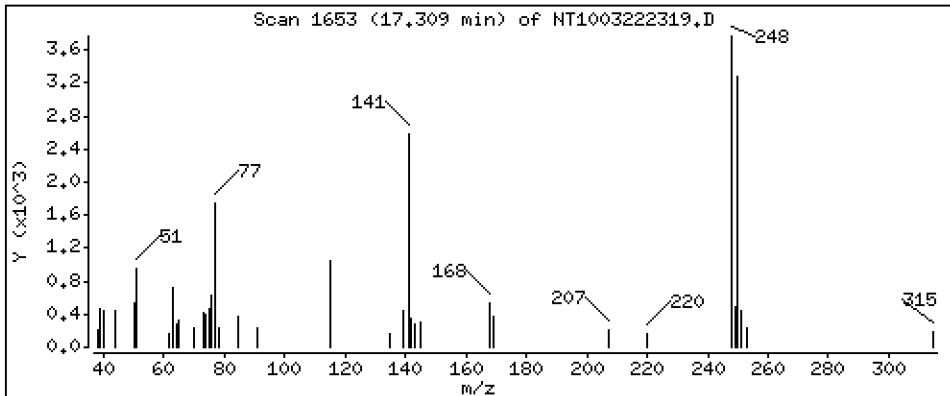
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,2181 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

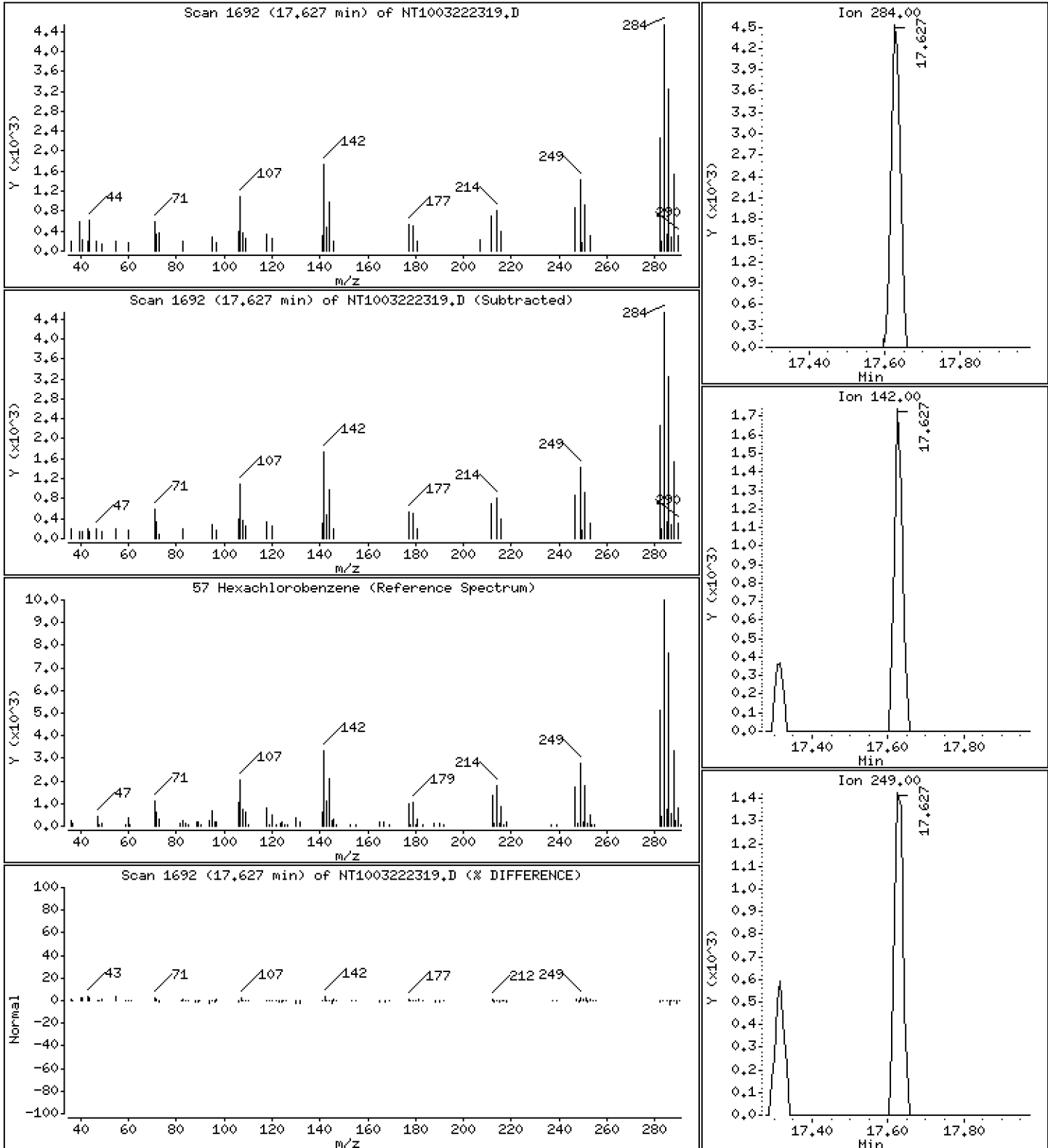
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,2574 ug/mL





Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

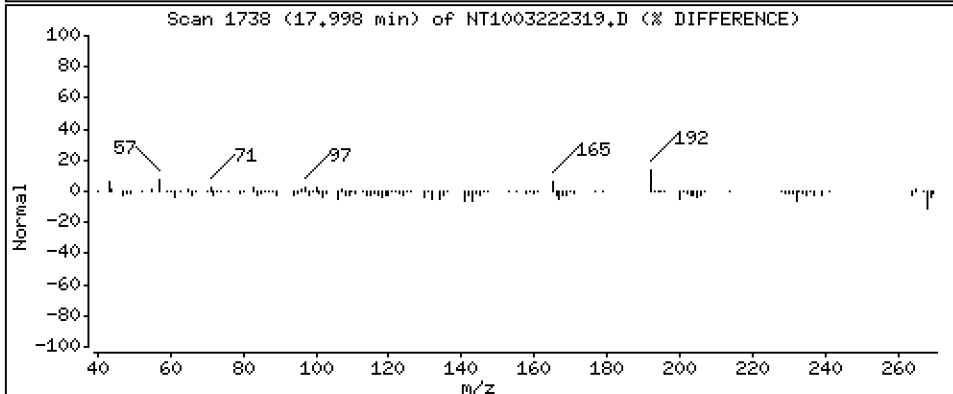
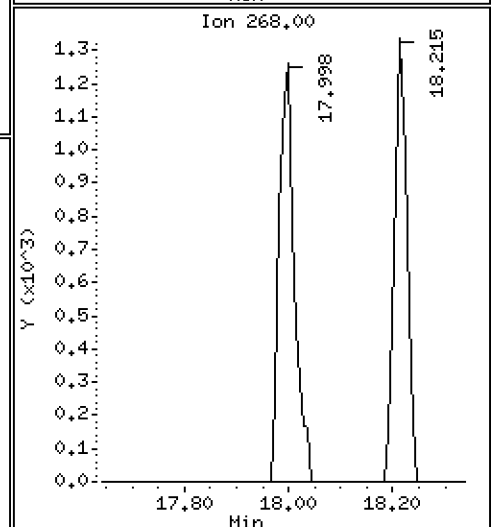
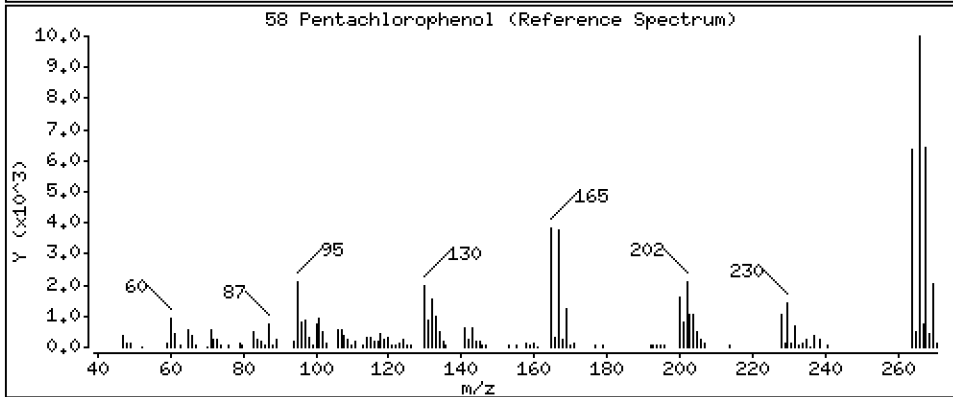
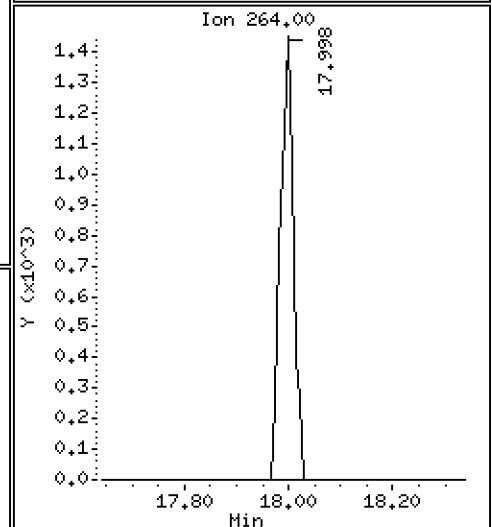
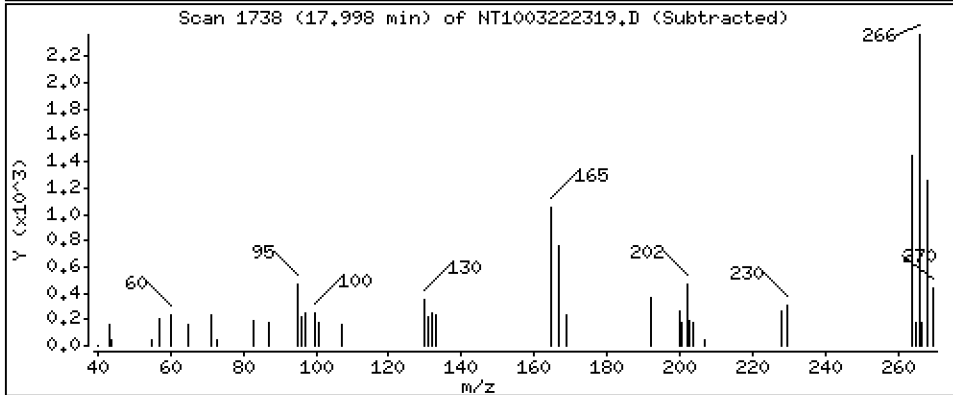
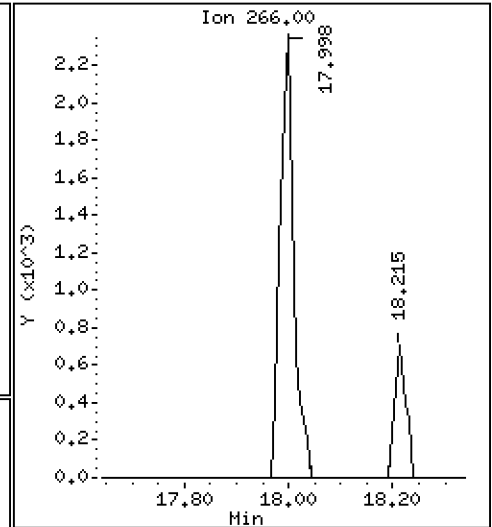
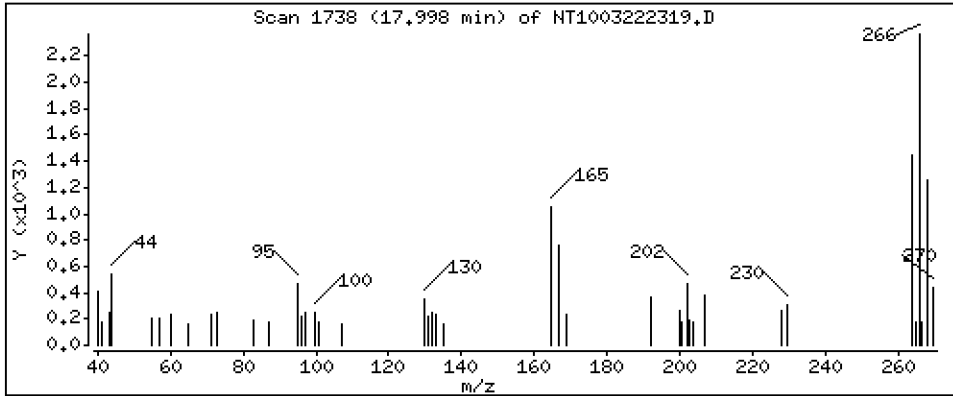
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,2485 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

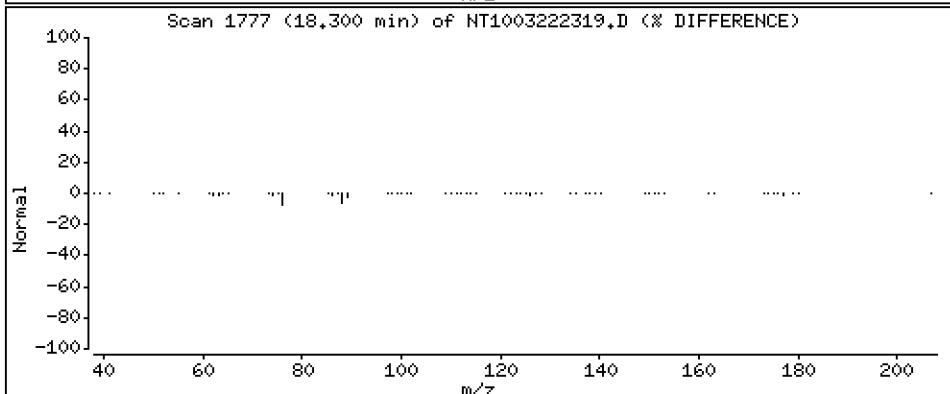
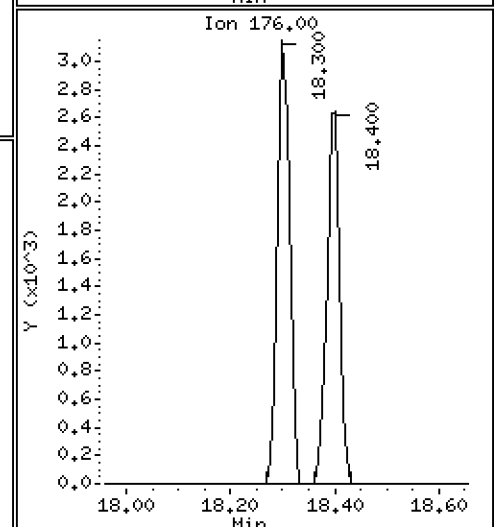
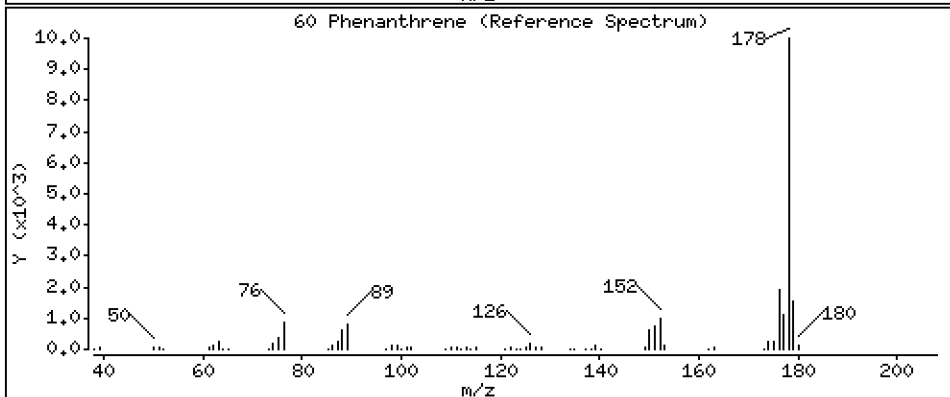
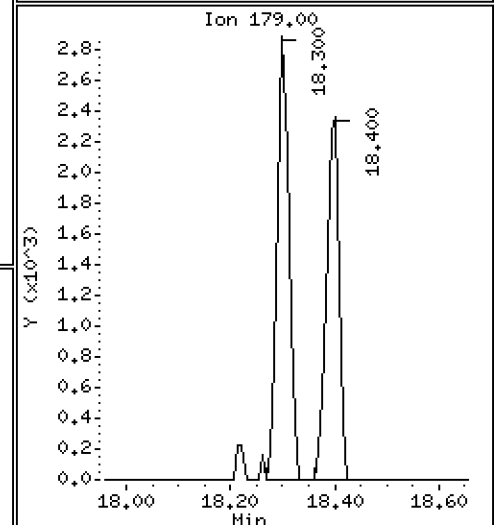
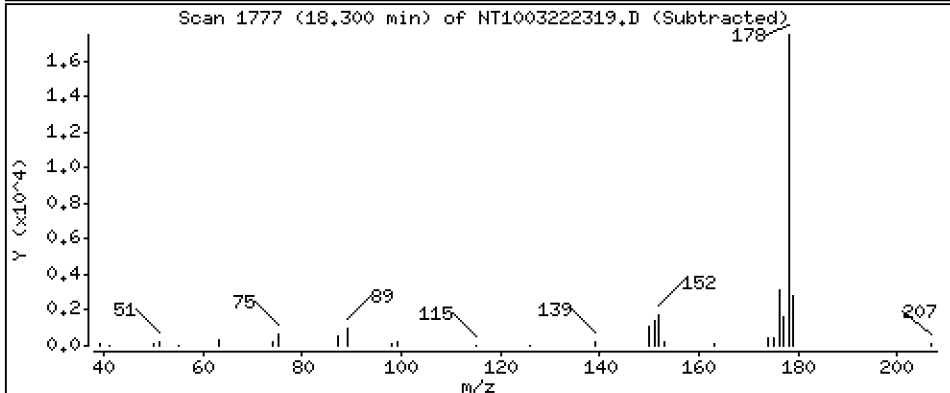
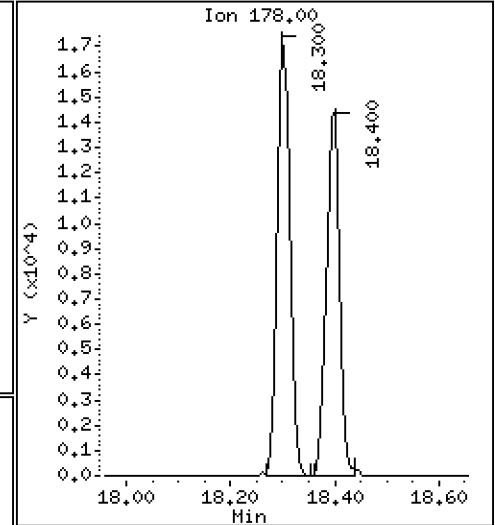
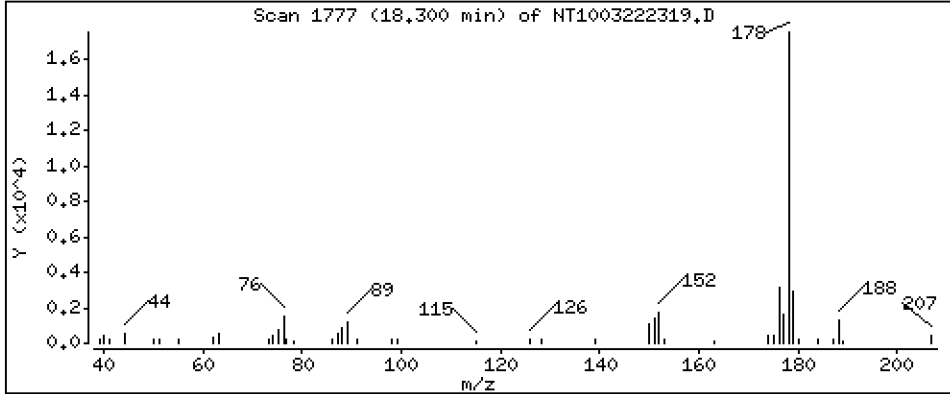
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,2096 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

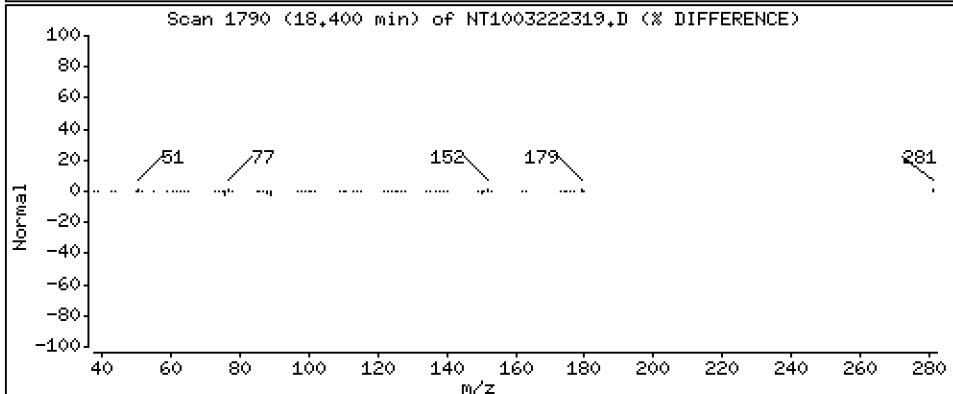
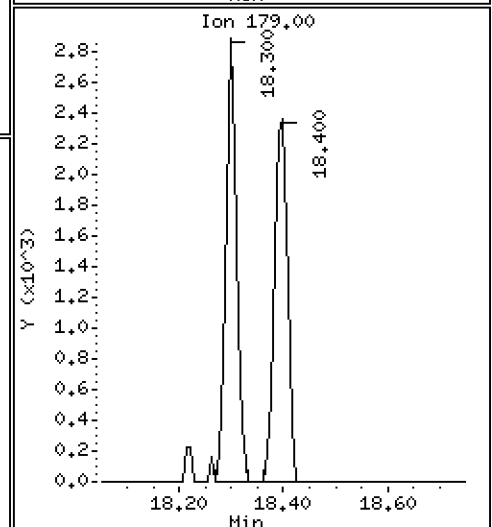
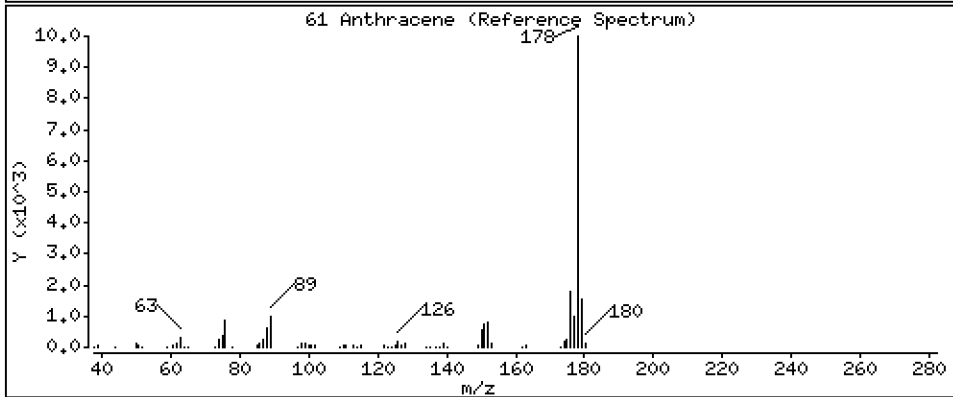
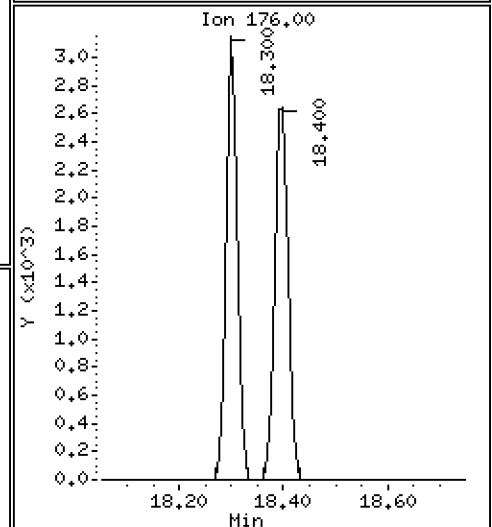
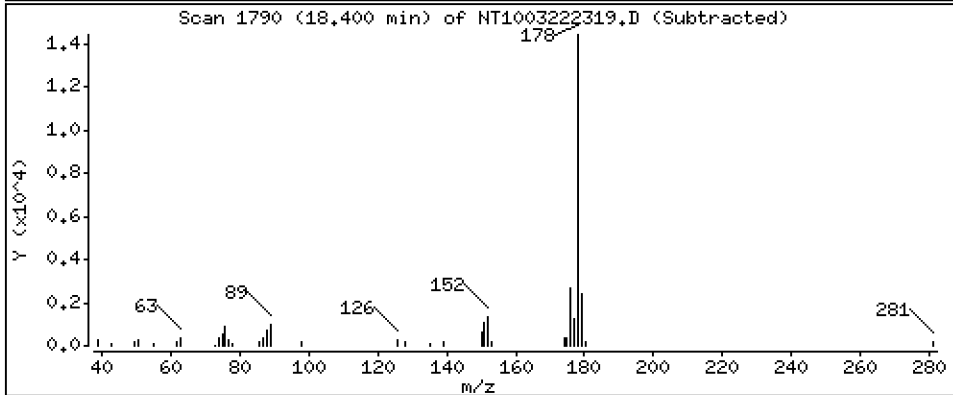
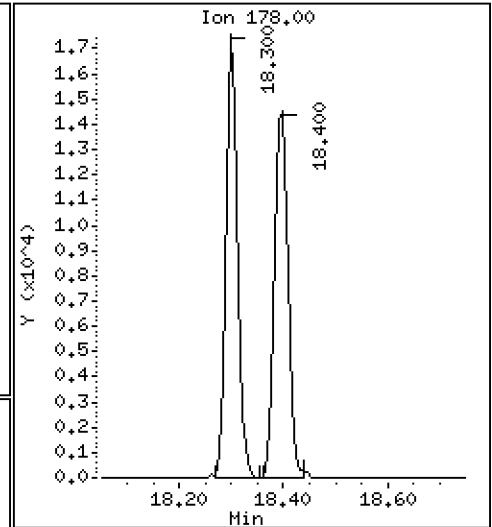
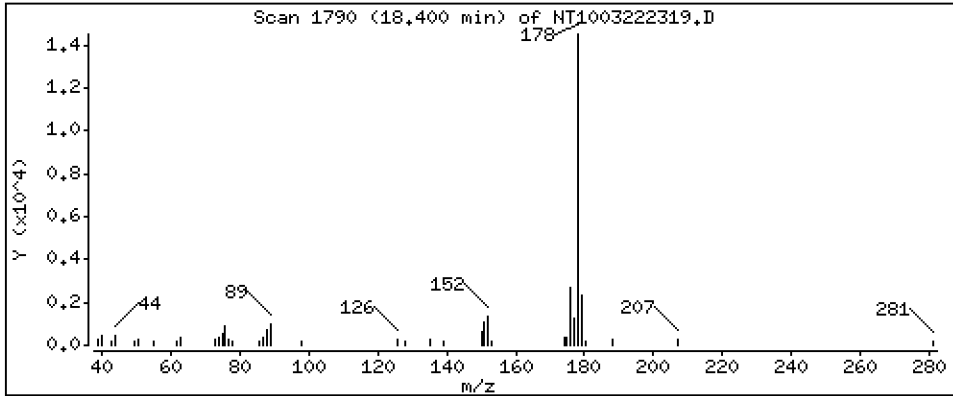
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2007 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

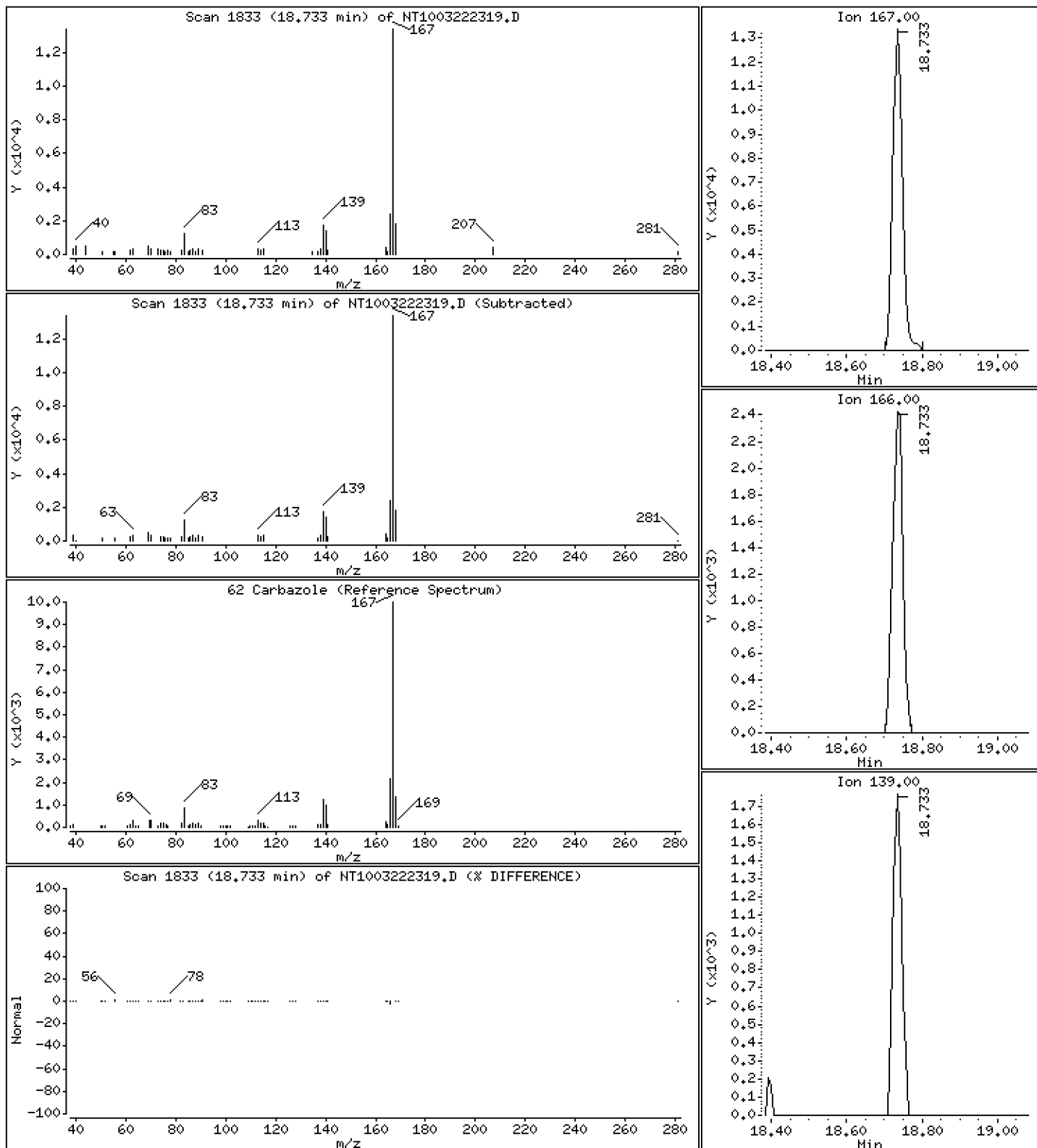
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1992 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

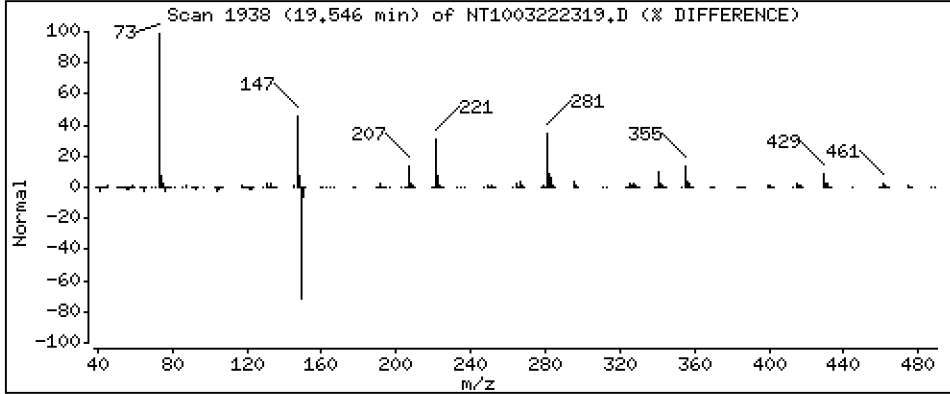
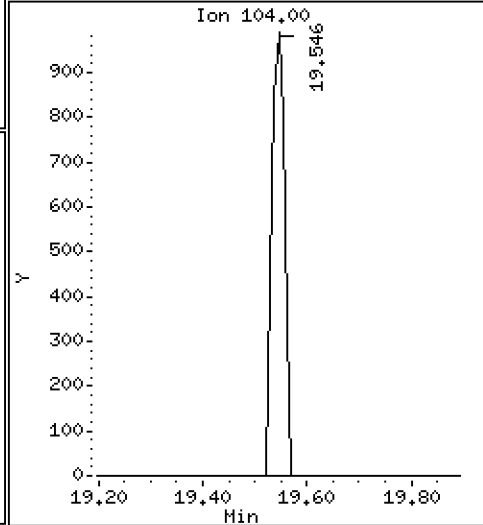
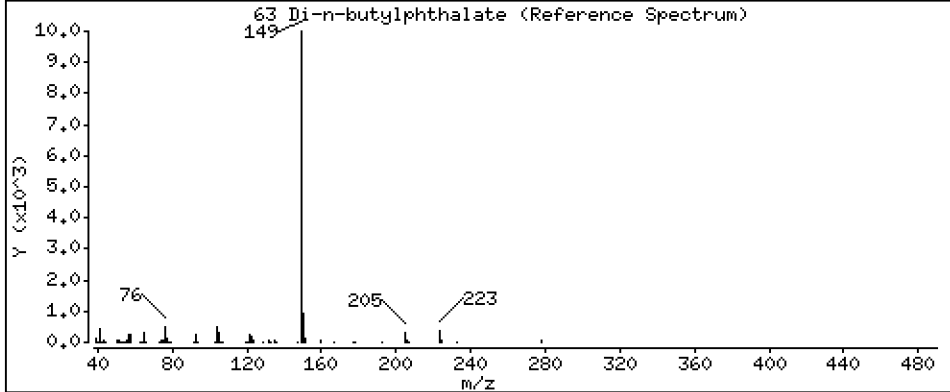
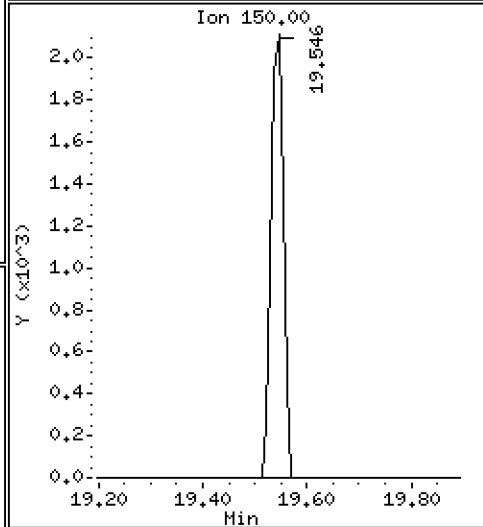
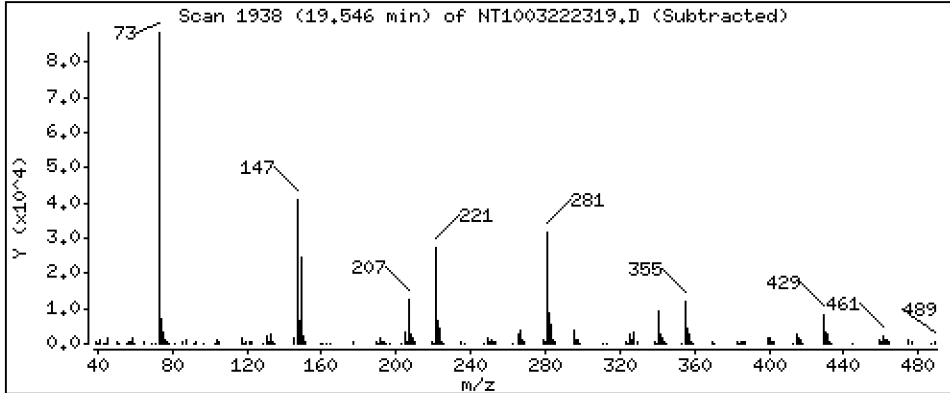
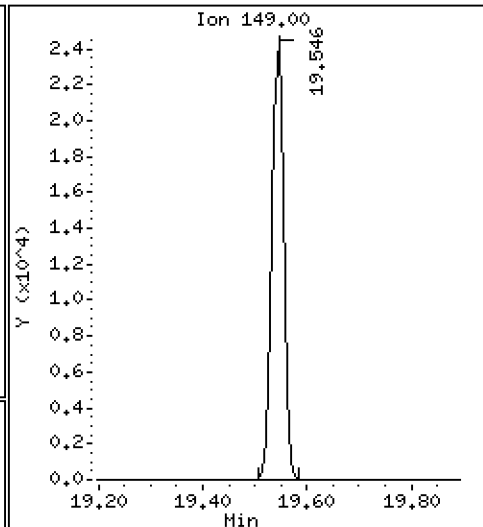
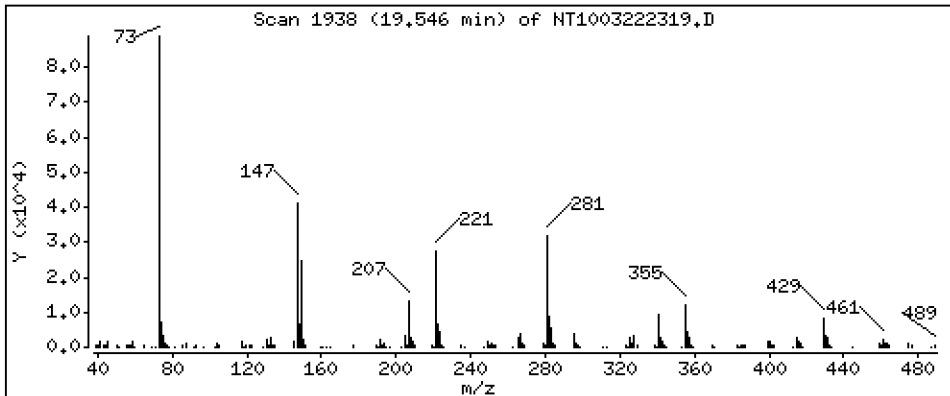
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,2388 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

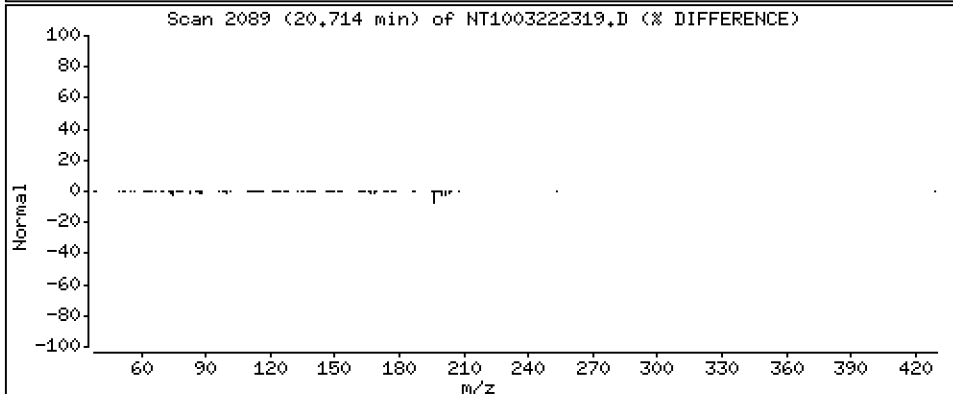
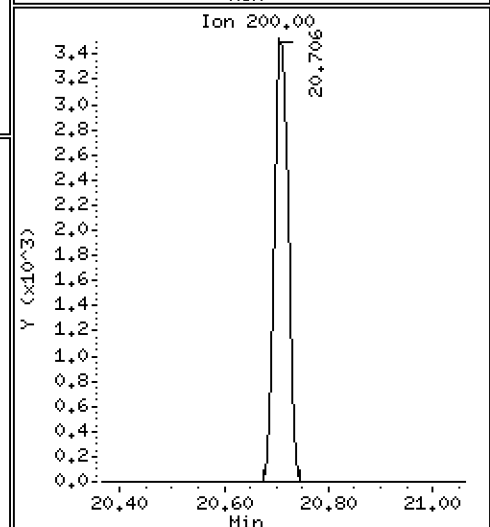
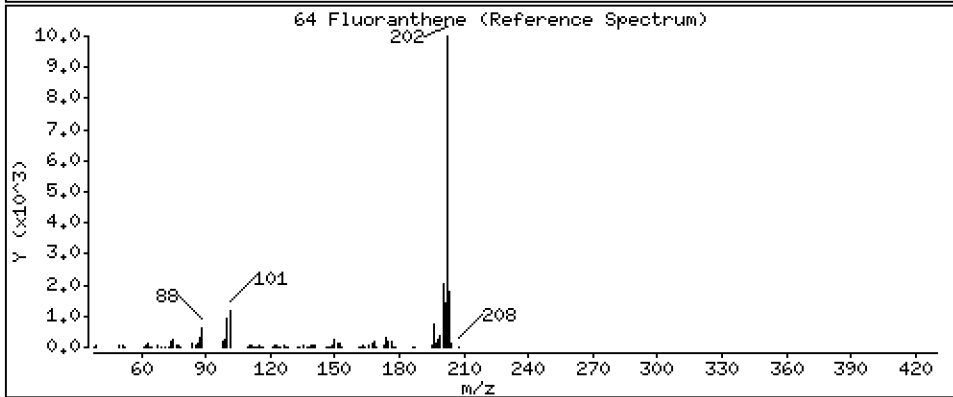
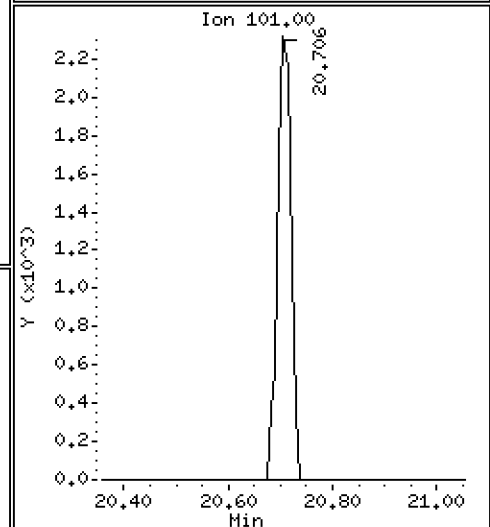
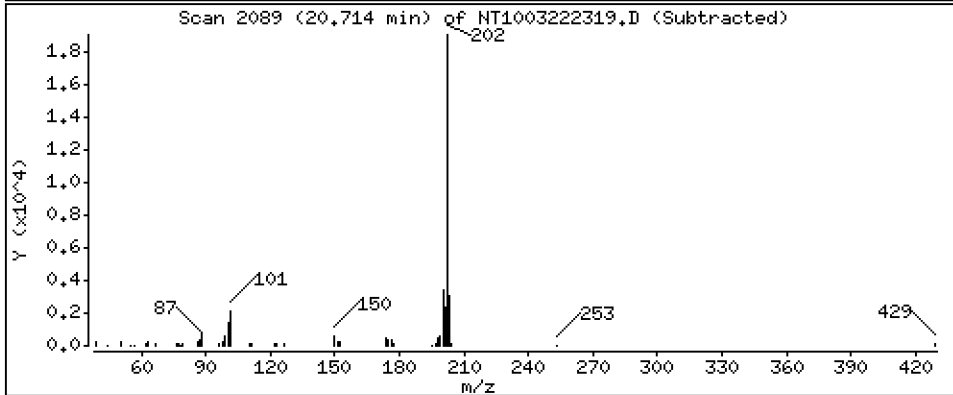
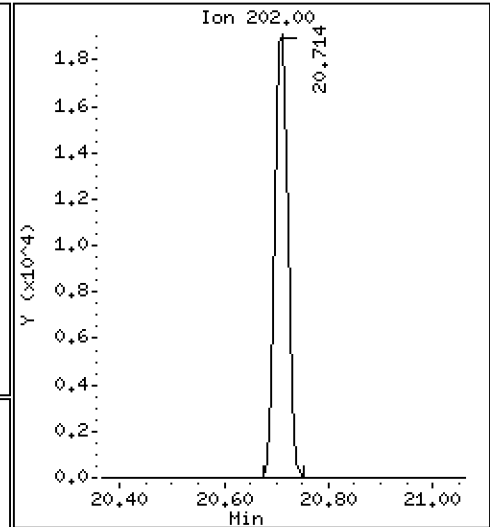
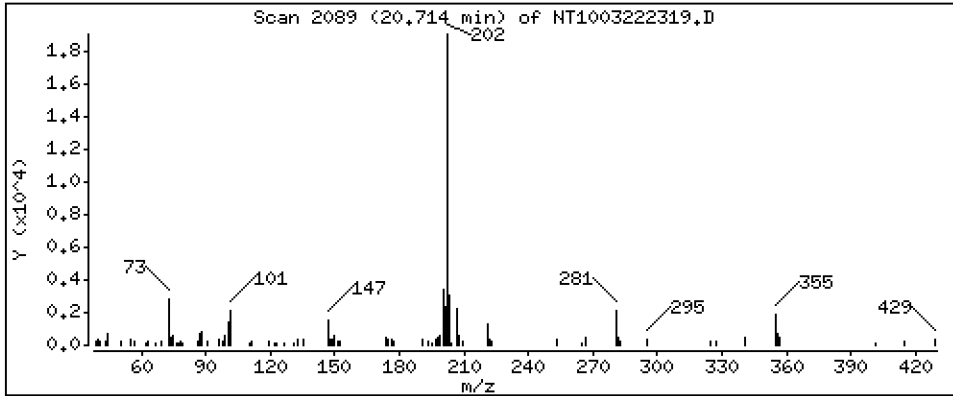
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,1801 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

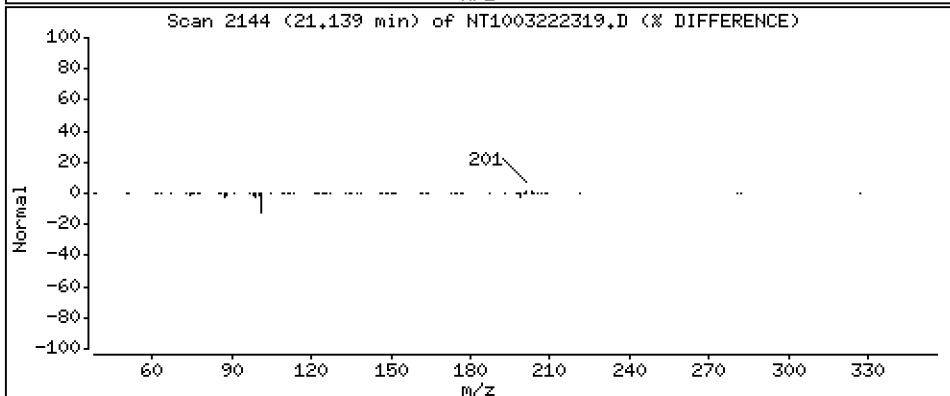
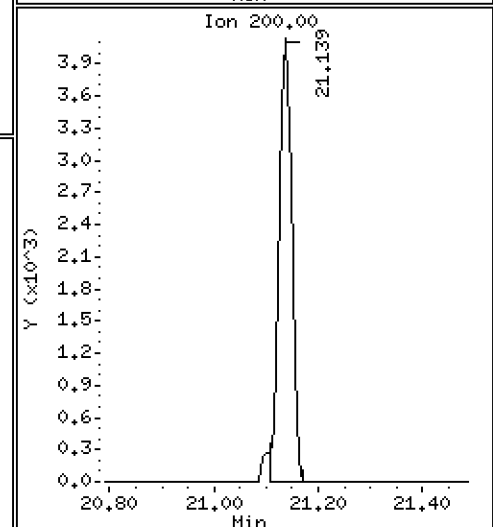
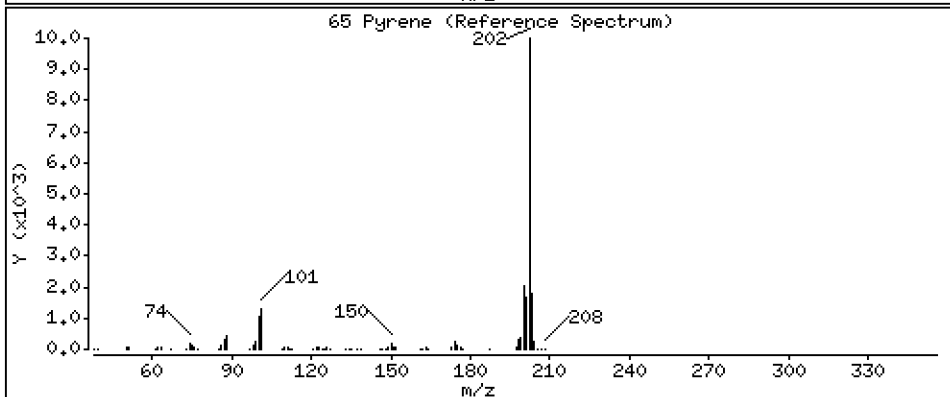
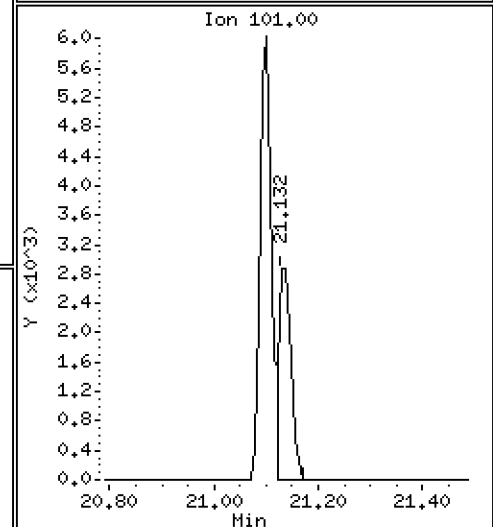
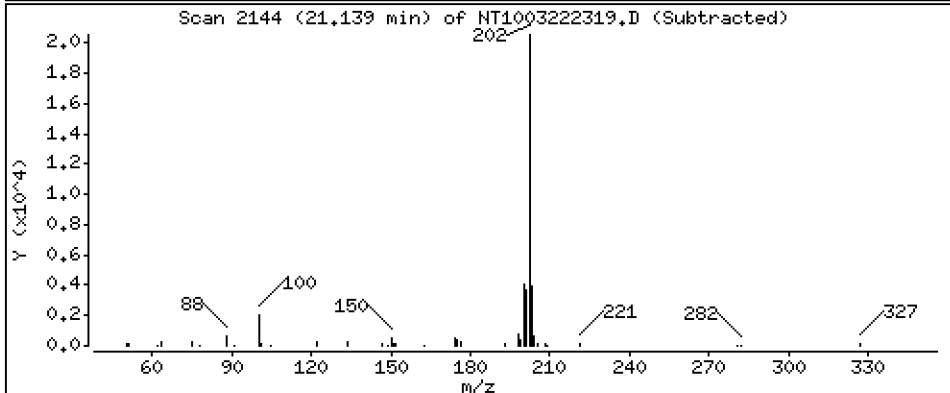
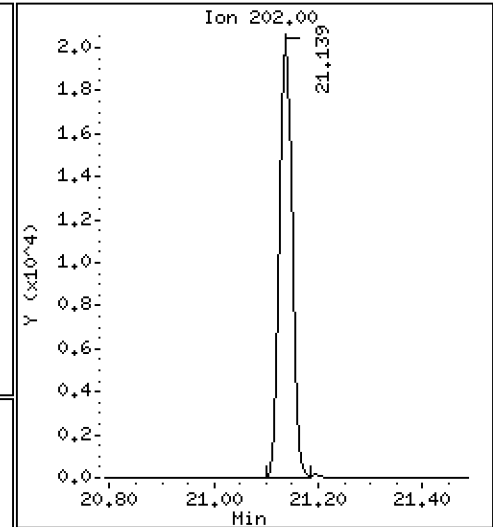
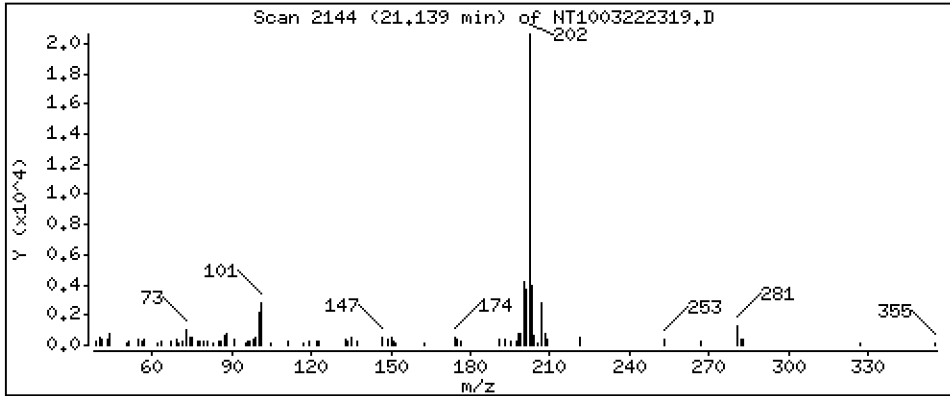
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,1791 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

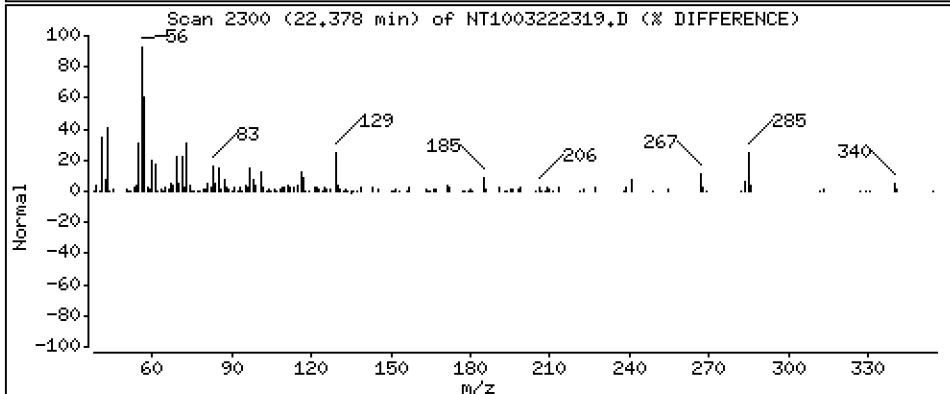
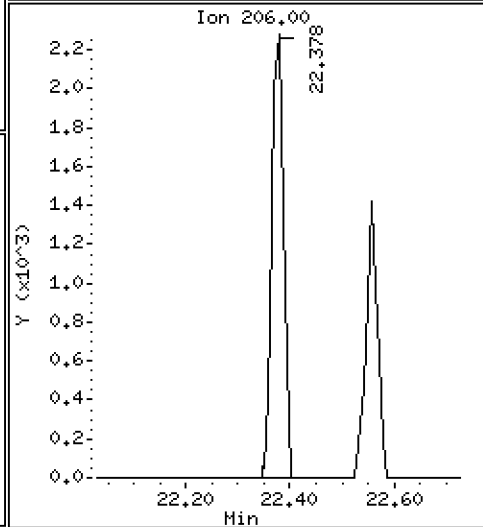
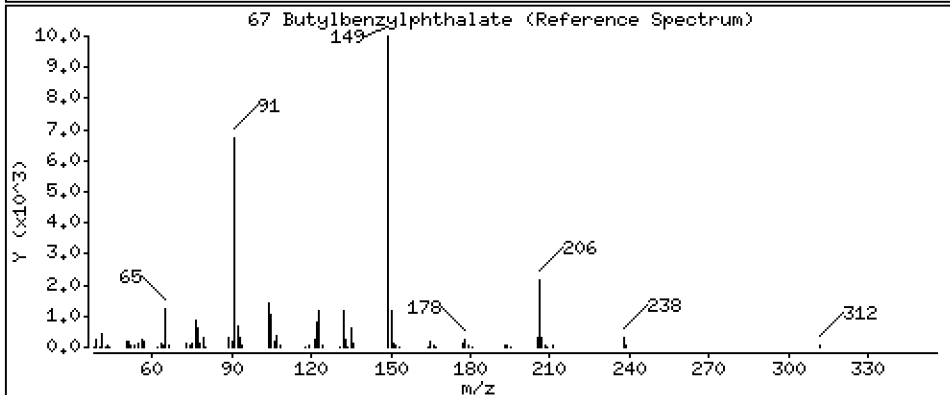
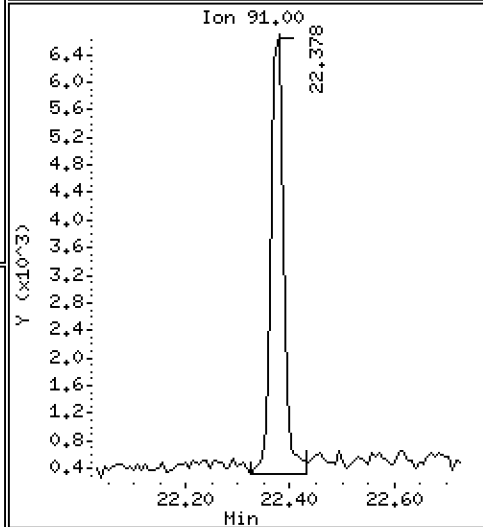
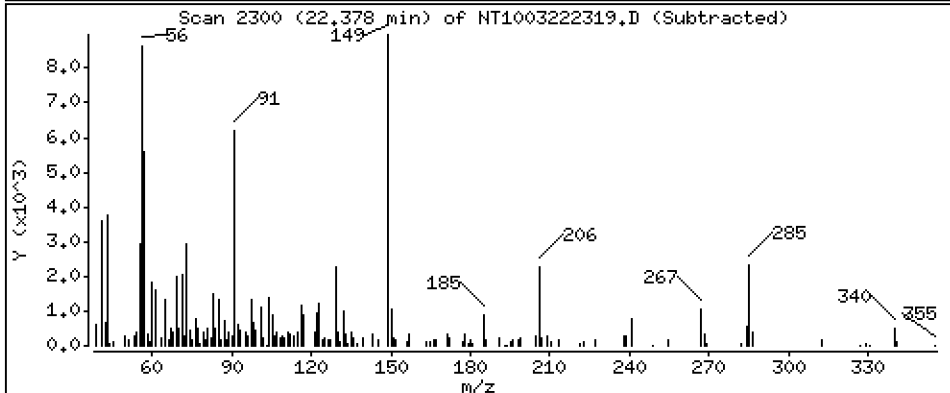
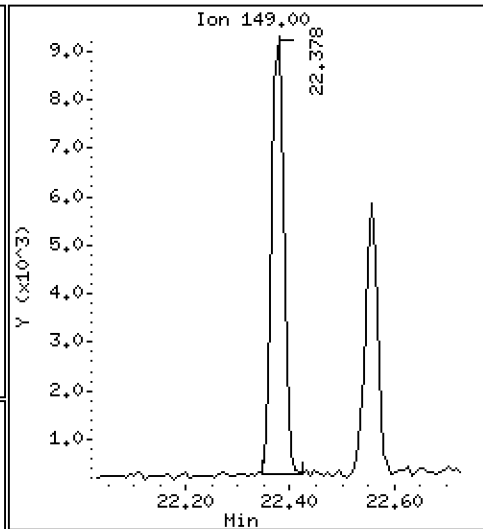
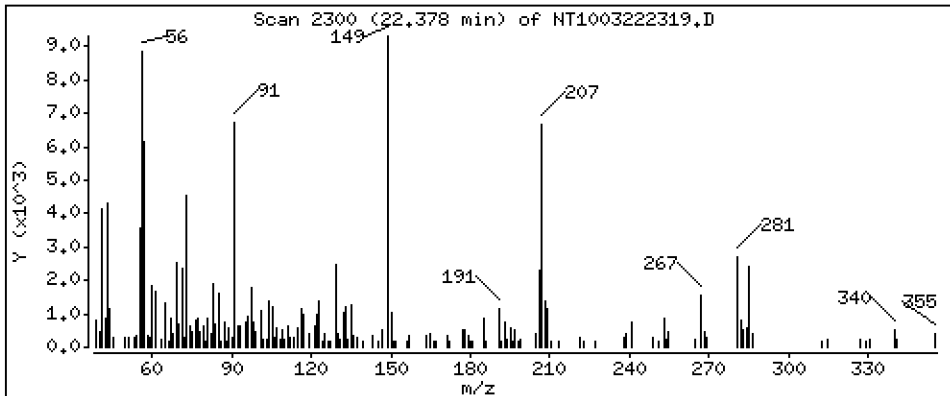
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,2157 ug/mL





Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

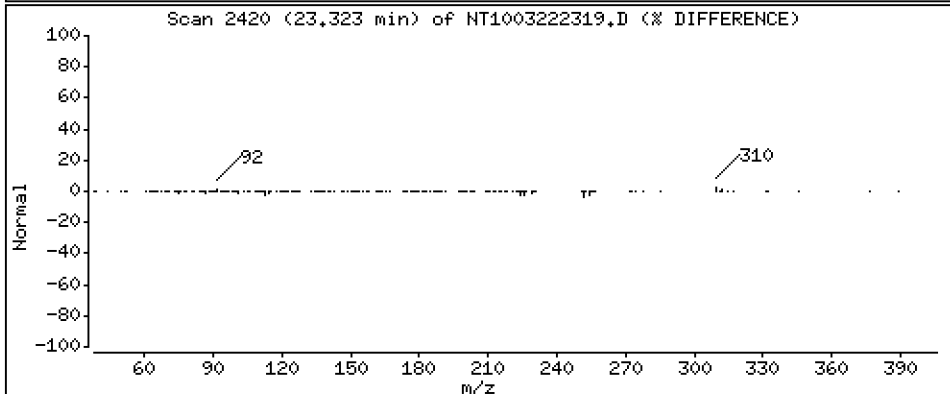
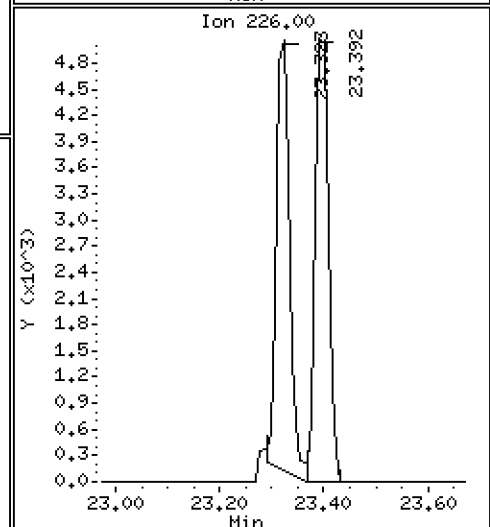
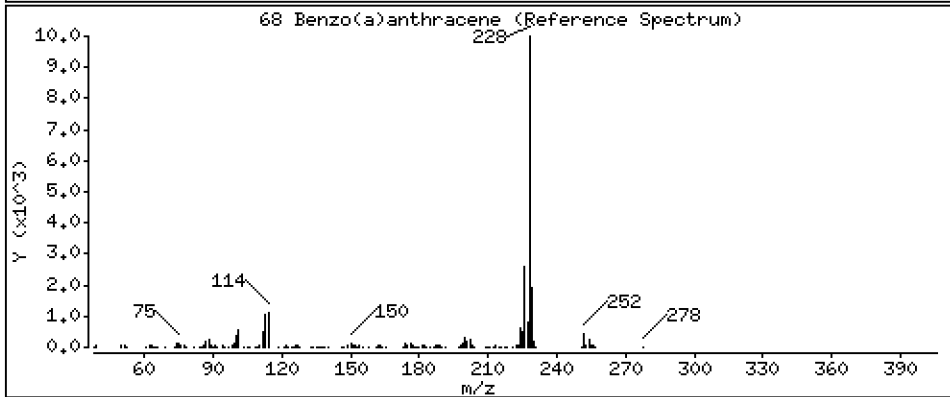
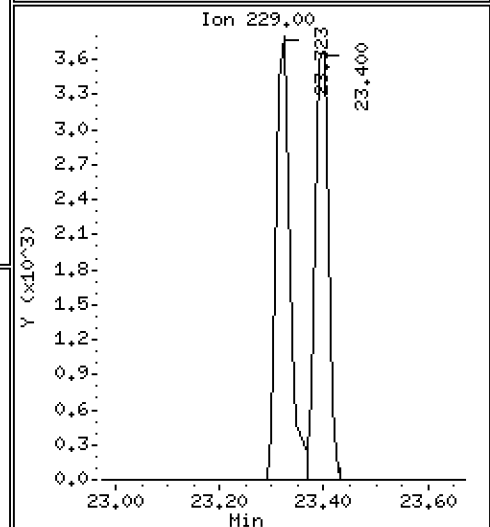
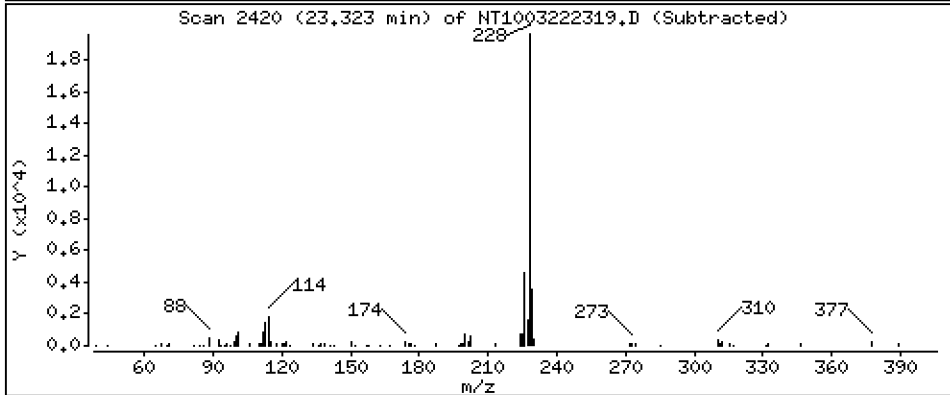
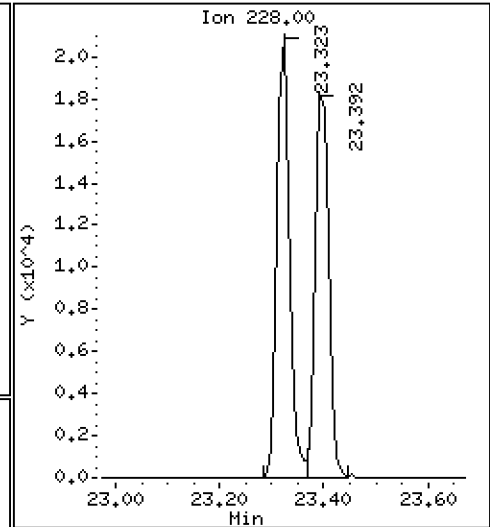
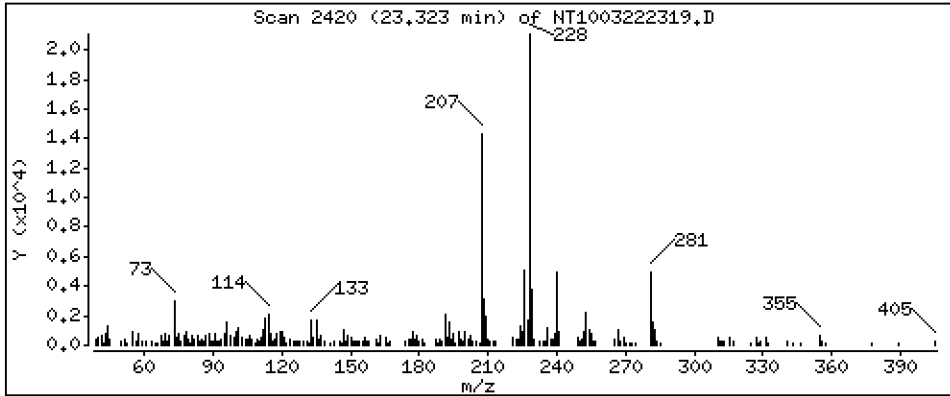
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2146 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

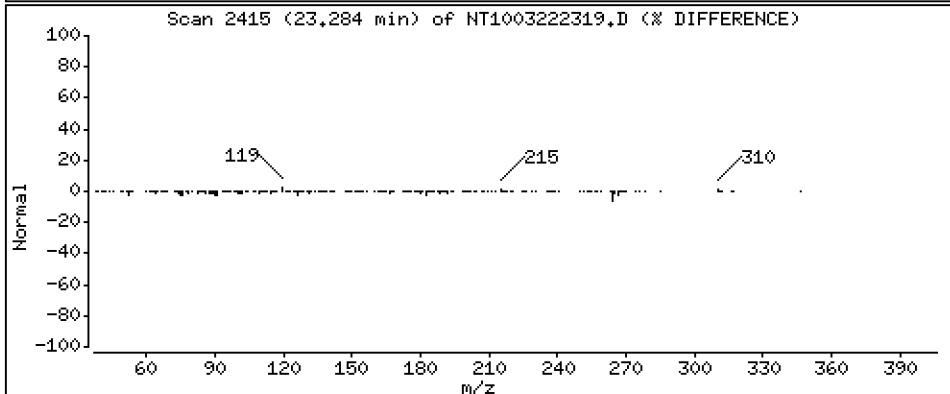
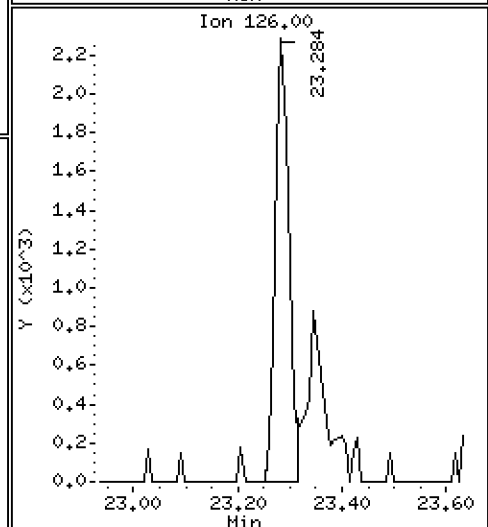
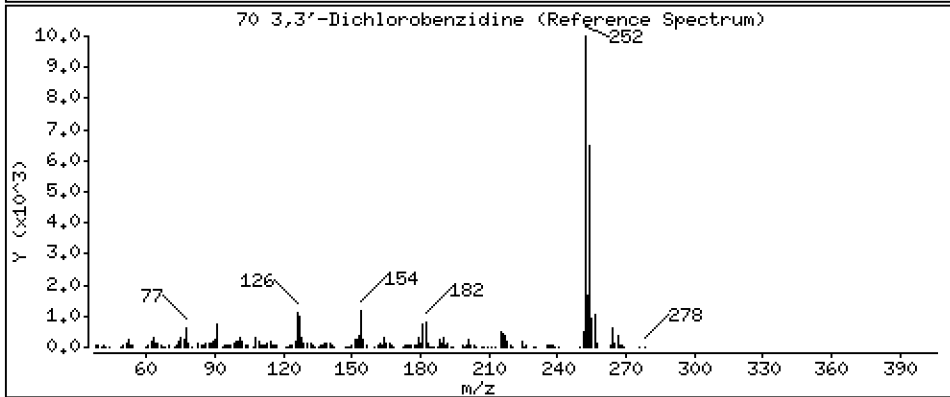
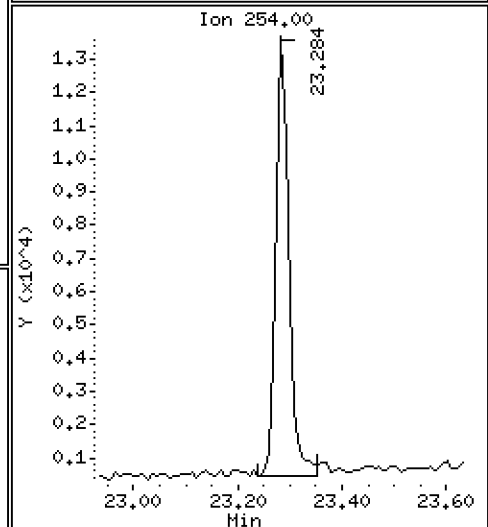
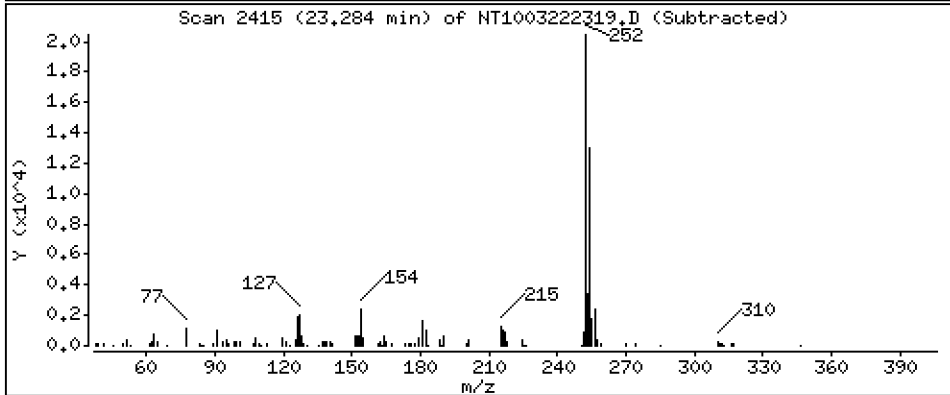
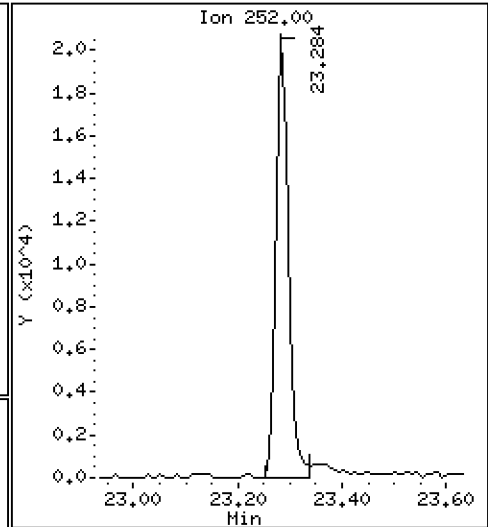
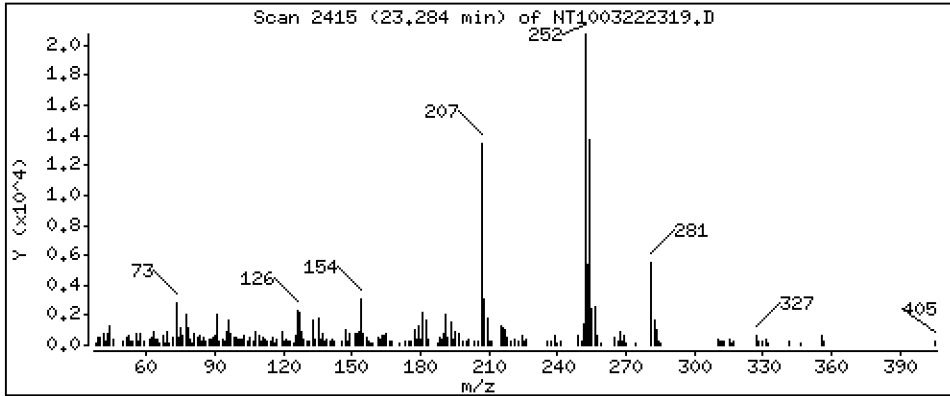
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,6447 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

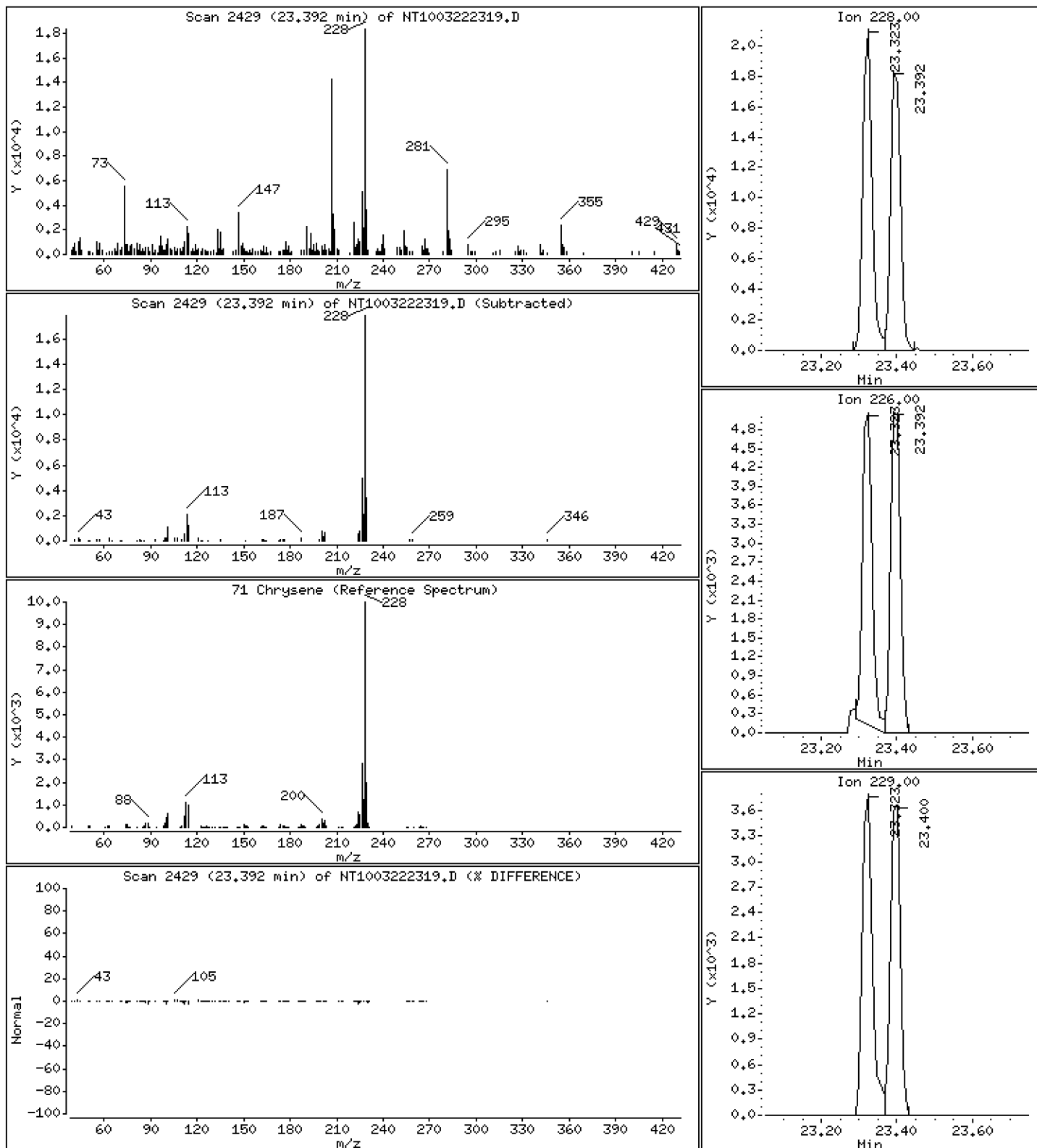
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2044 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

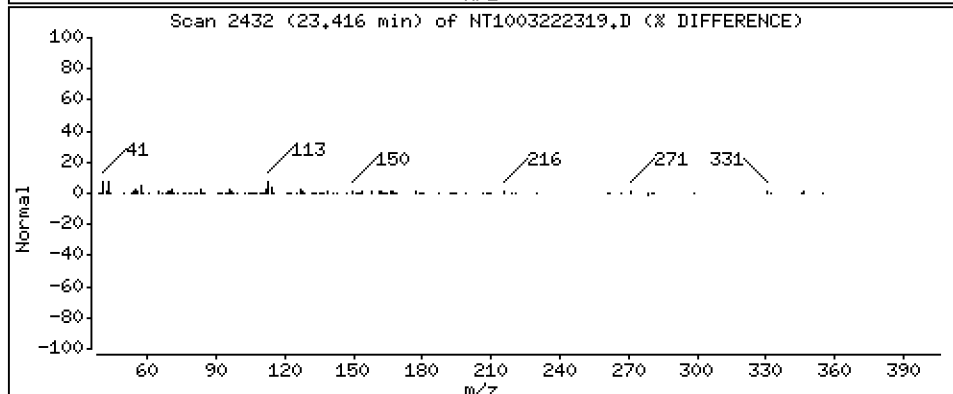
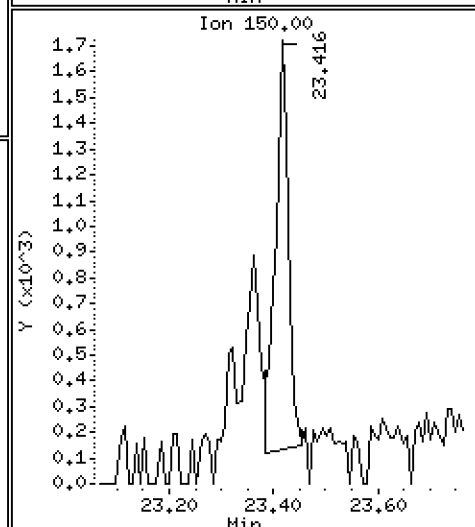
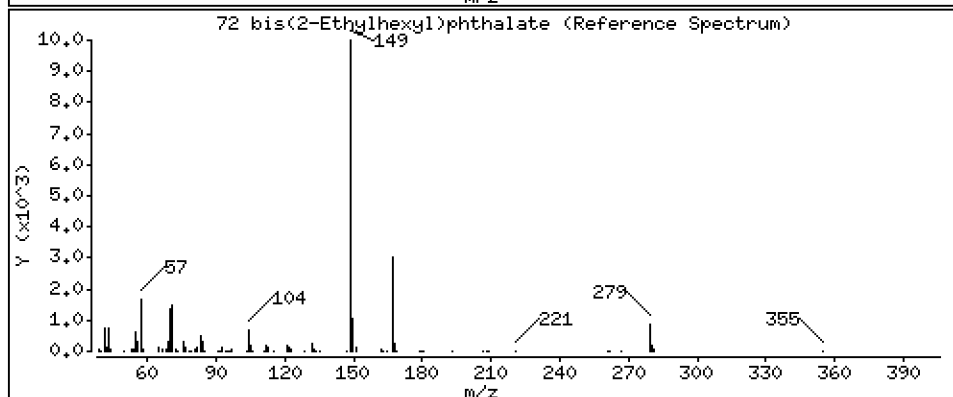
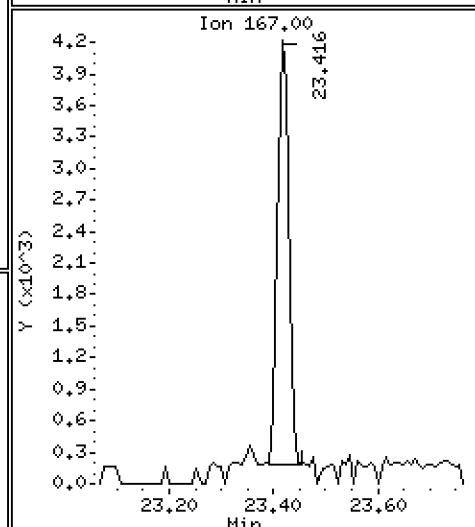
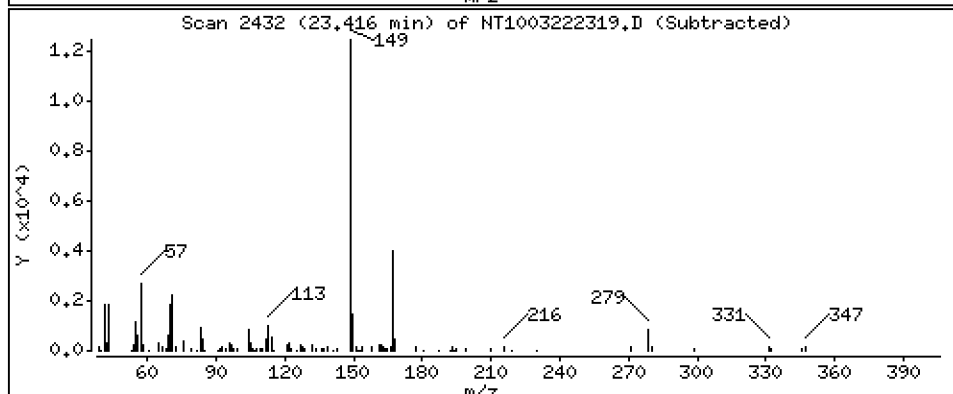
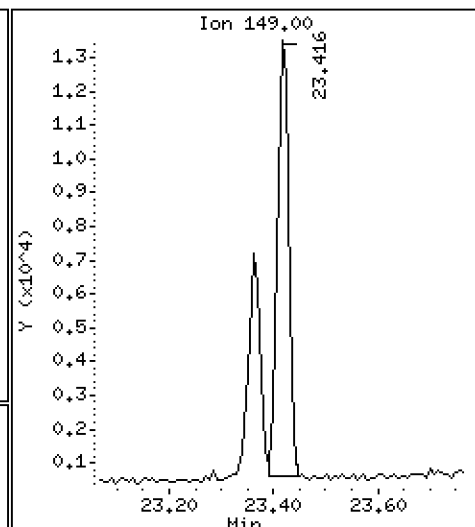
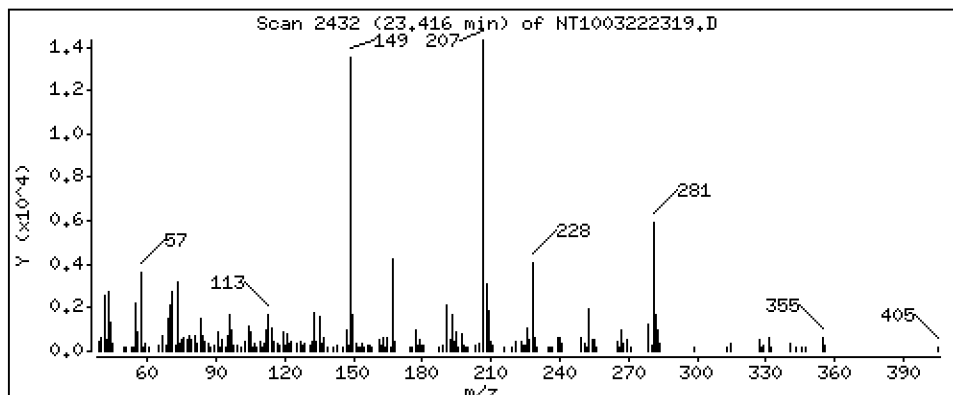
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,1872 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

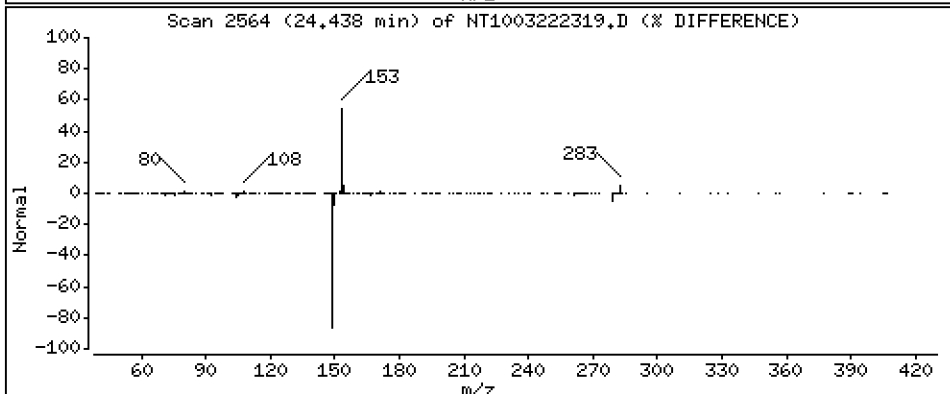
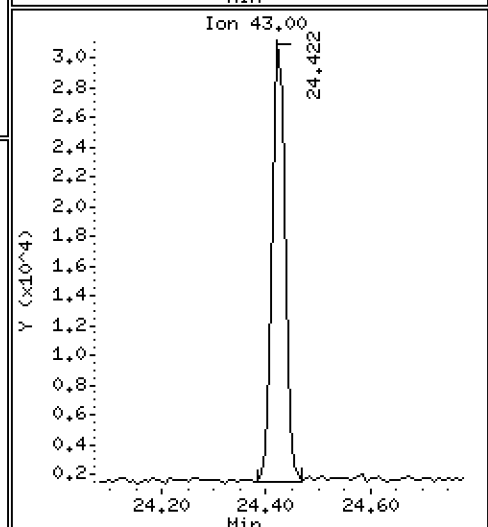
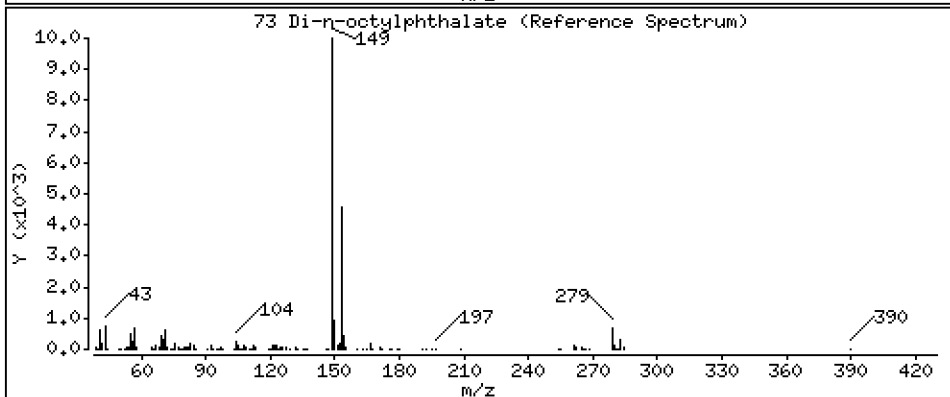
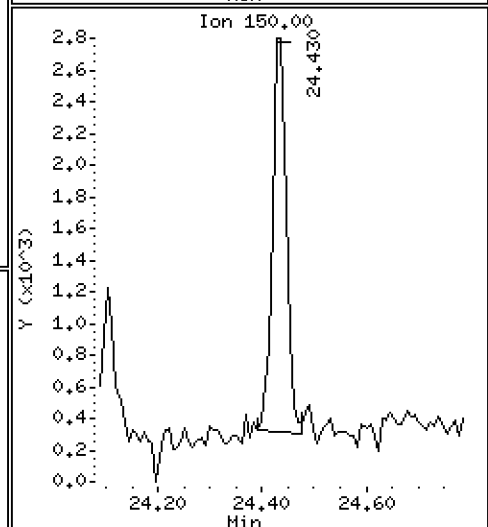
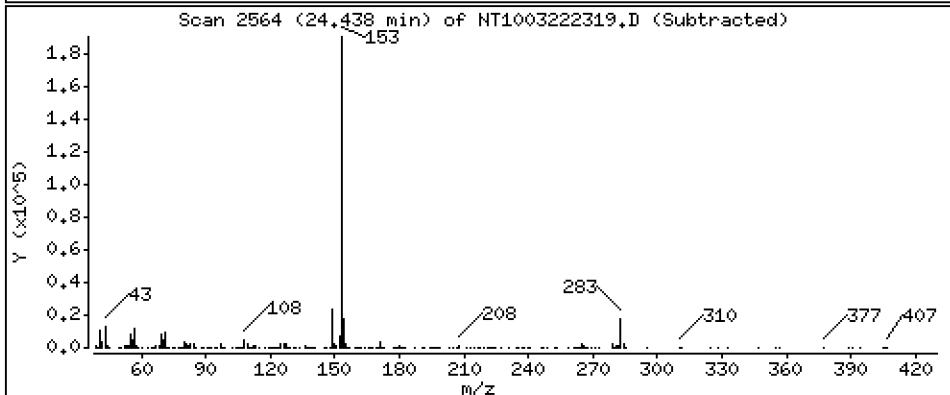
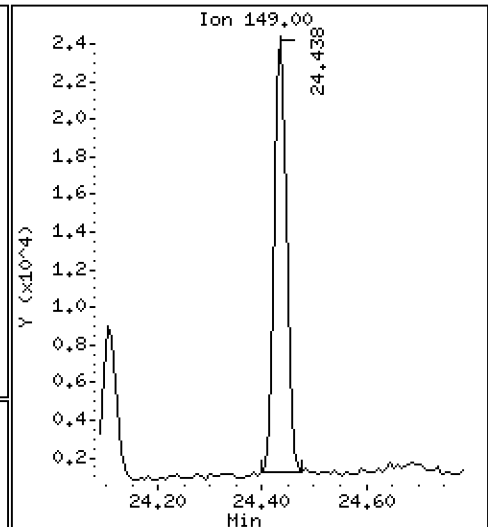
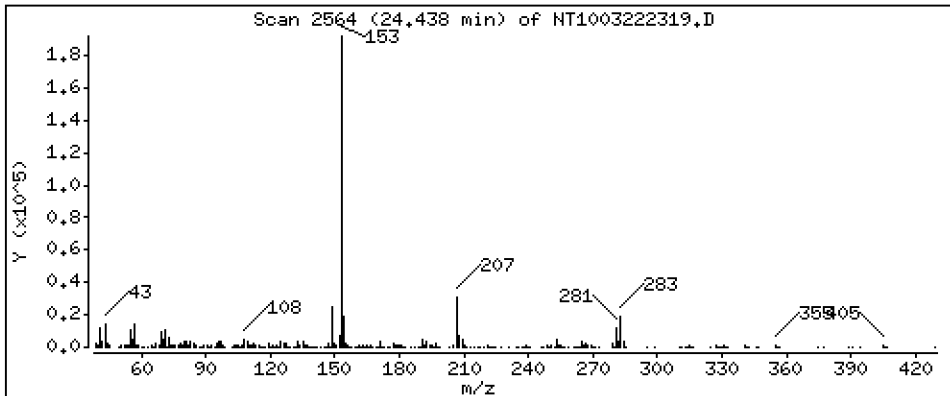
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2019 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

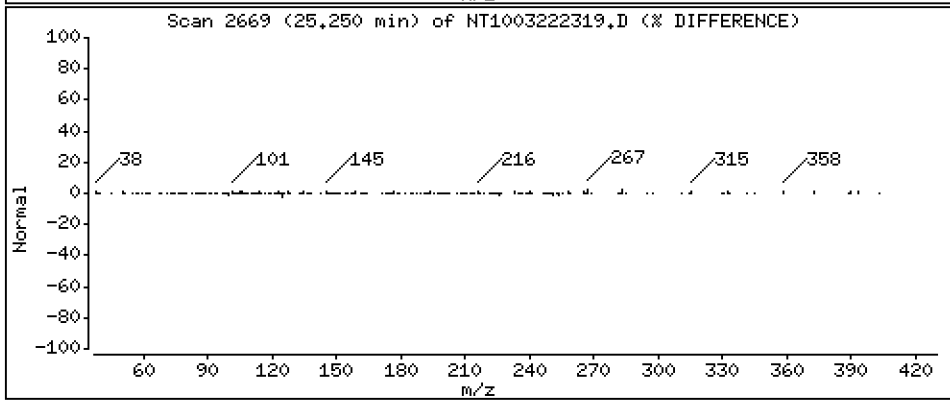
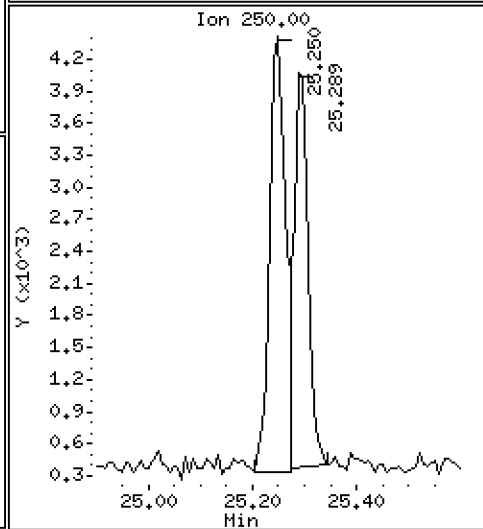
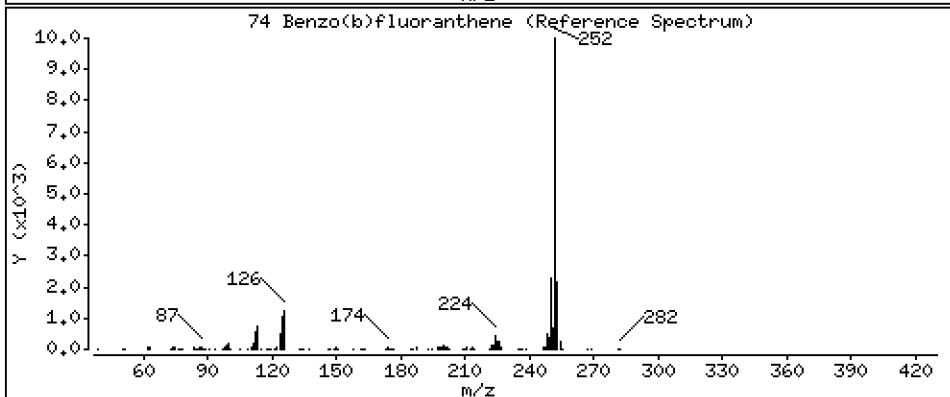
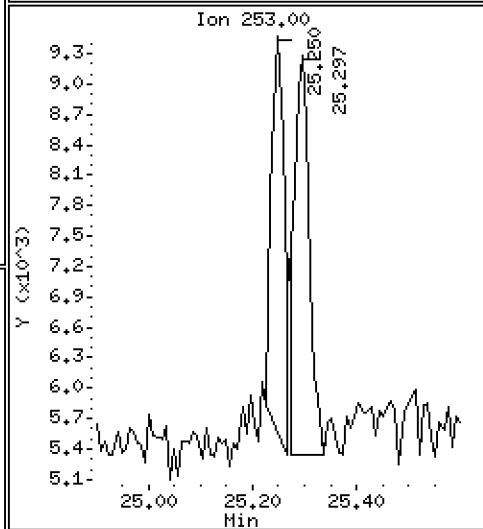
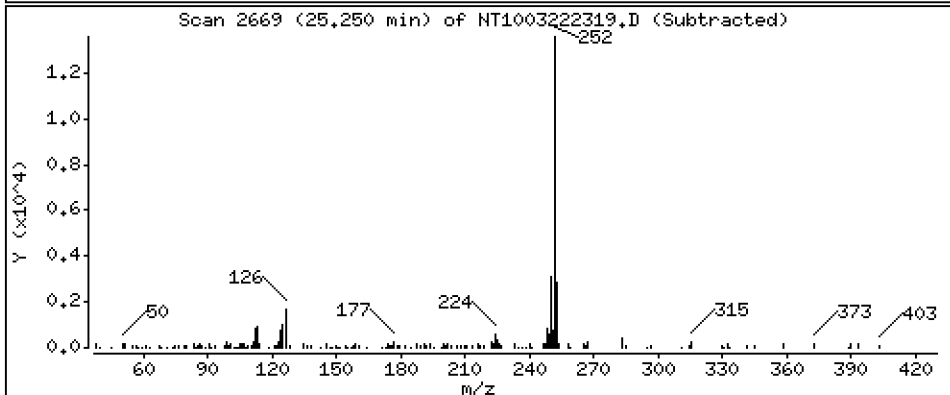
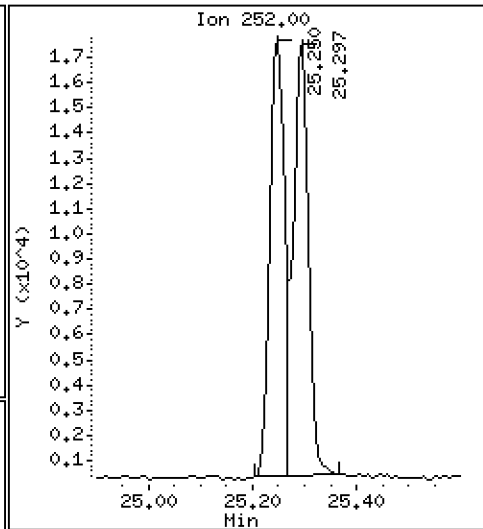
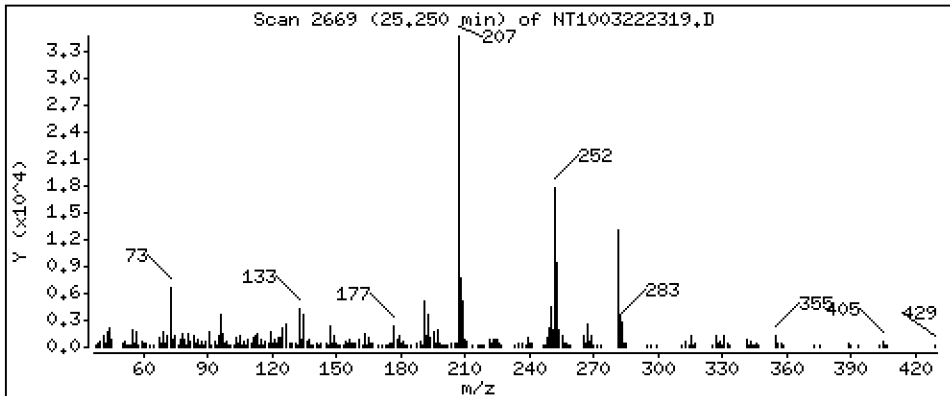
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,1942 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

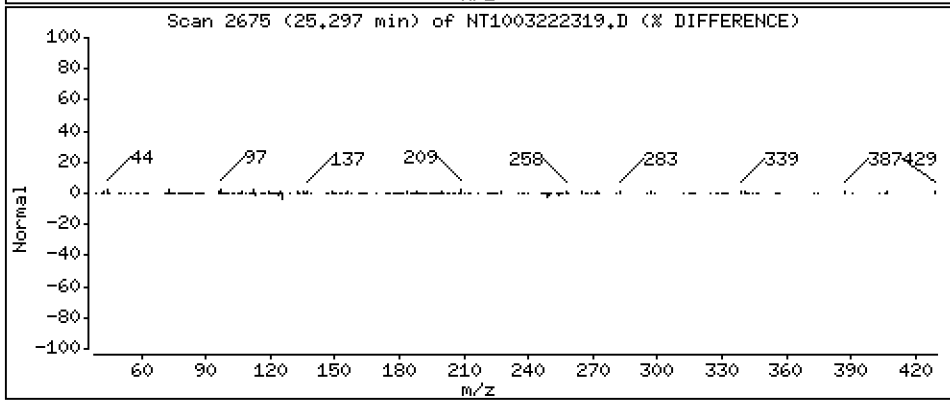
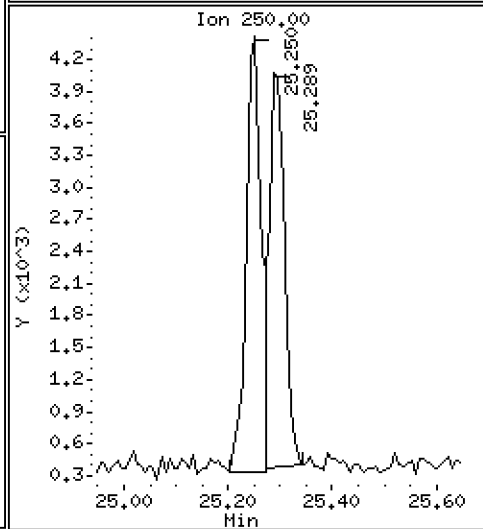
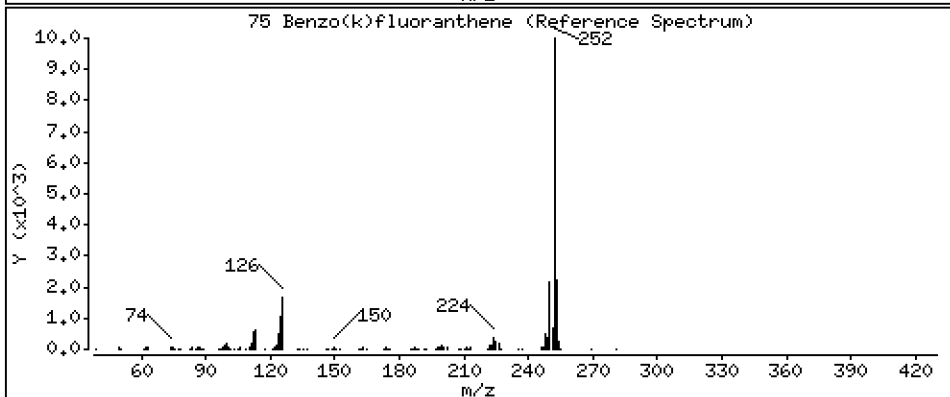
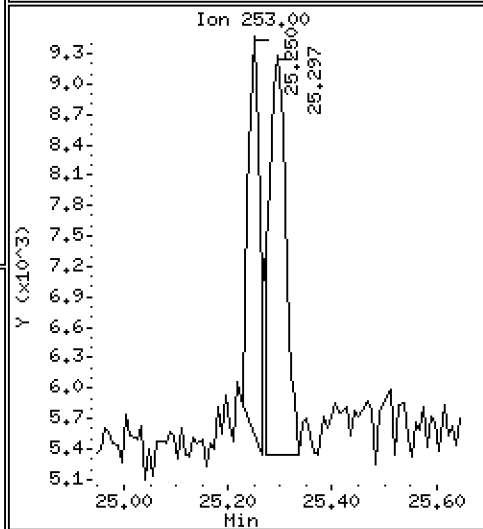
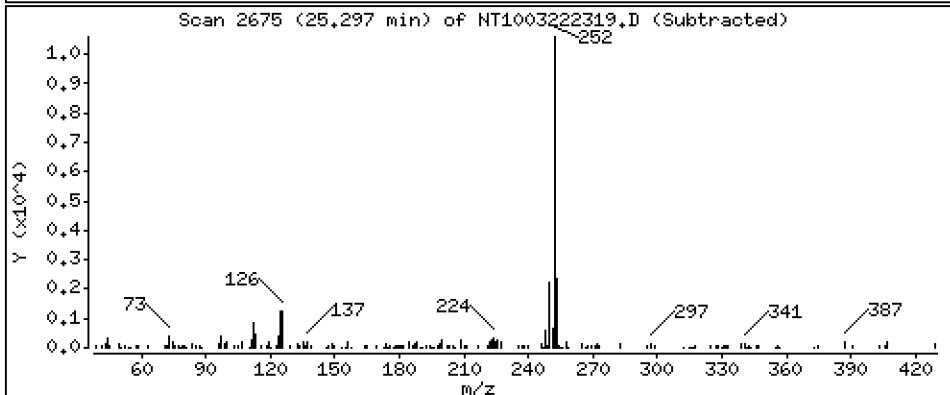
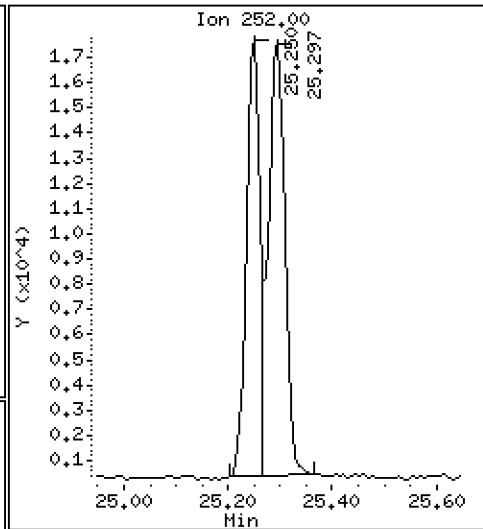
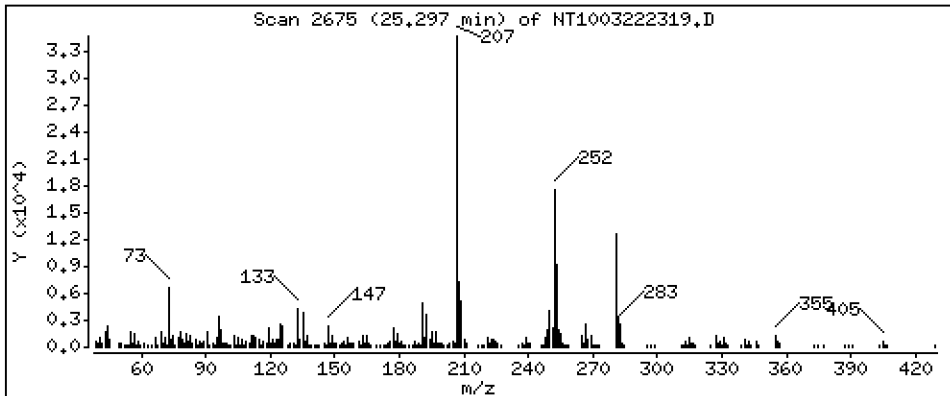
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2290 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

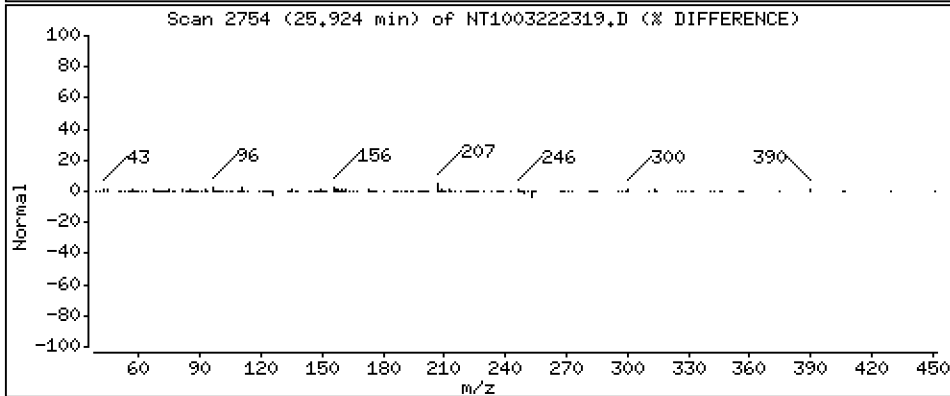
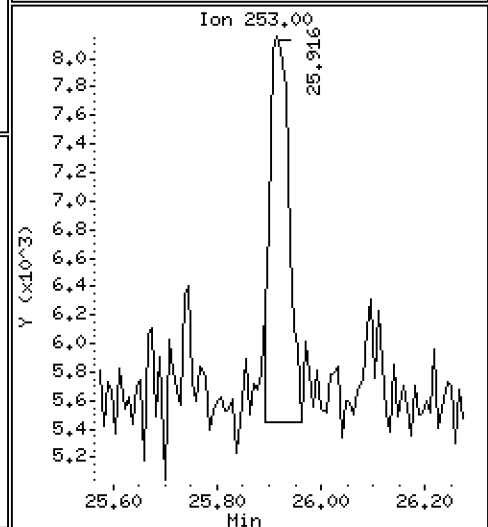
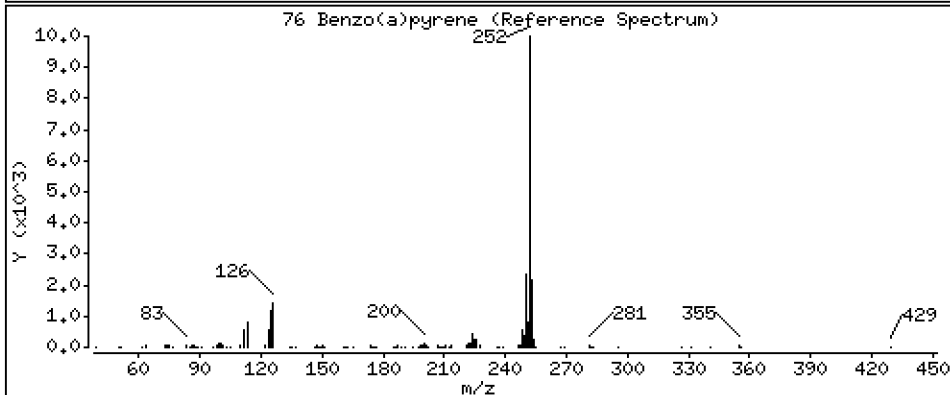
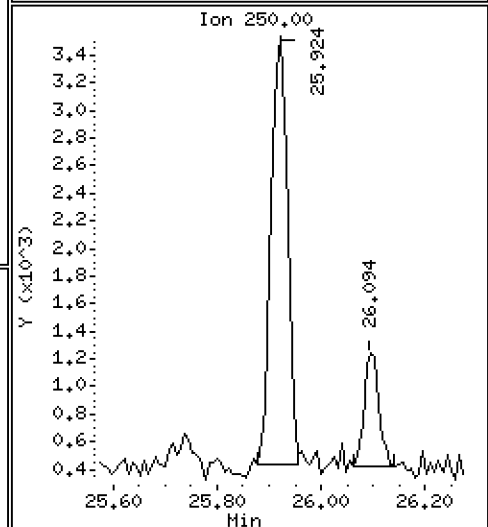
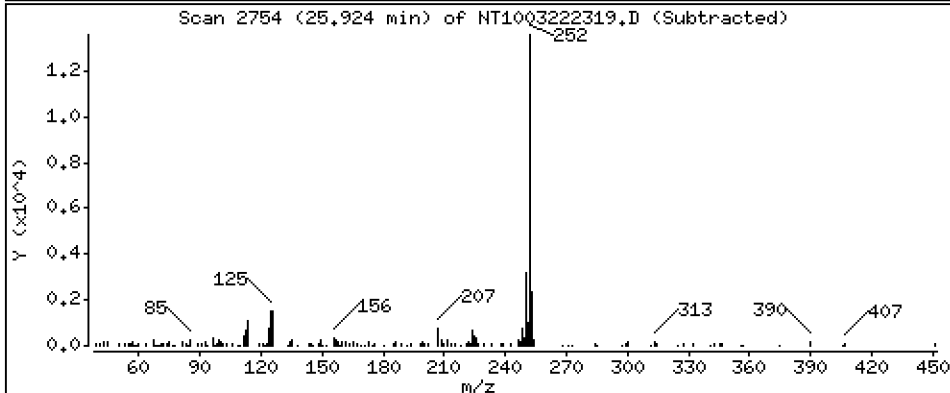
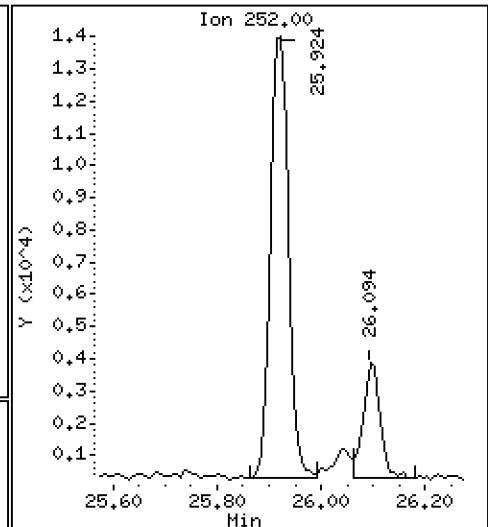
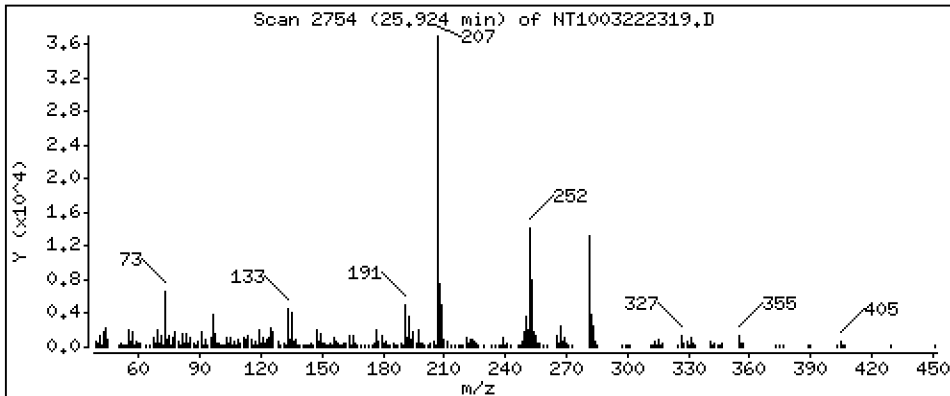
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2157 ug/mL





Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

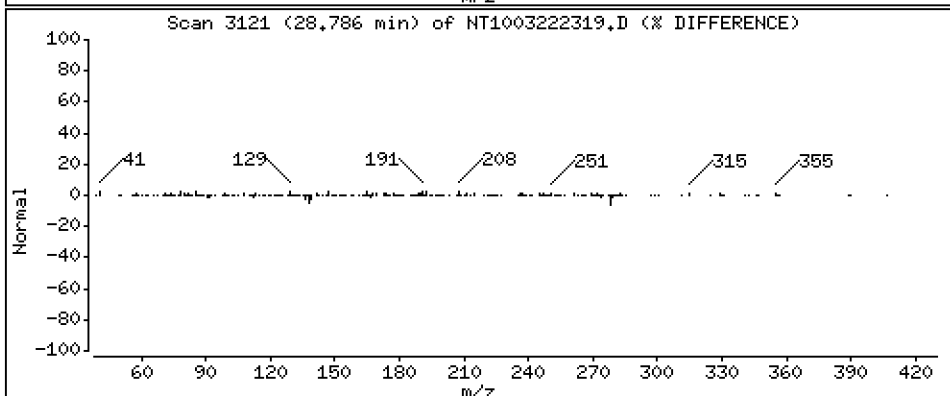
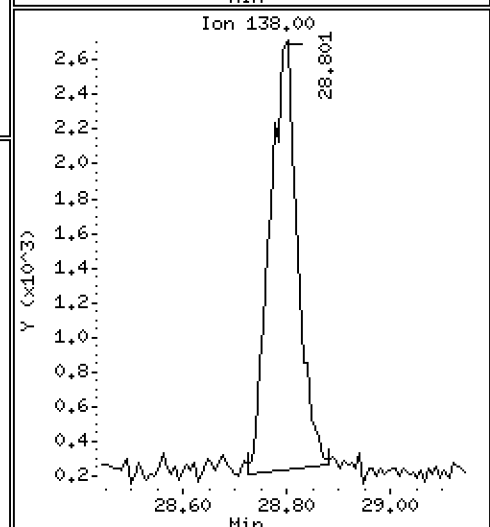
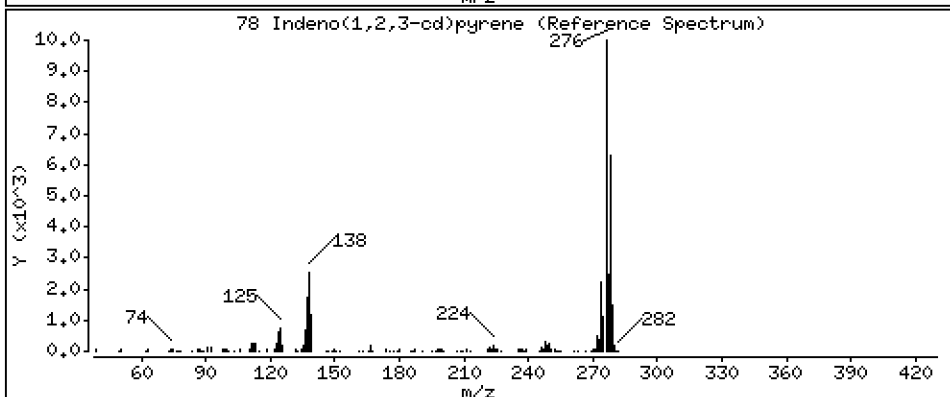
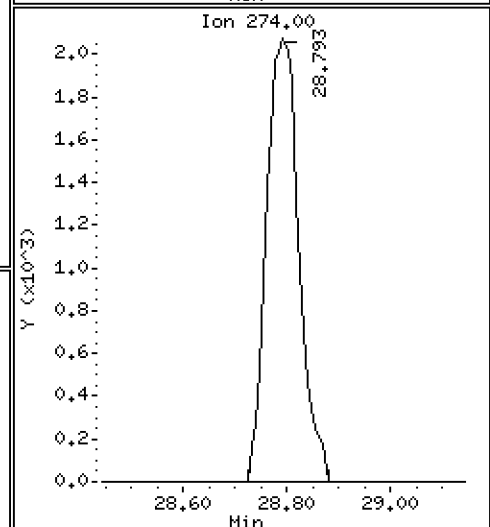
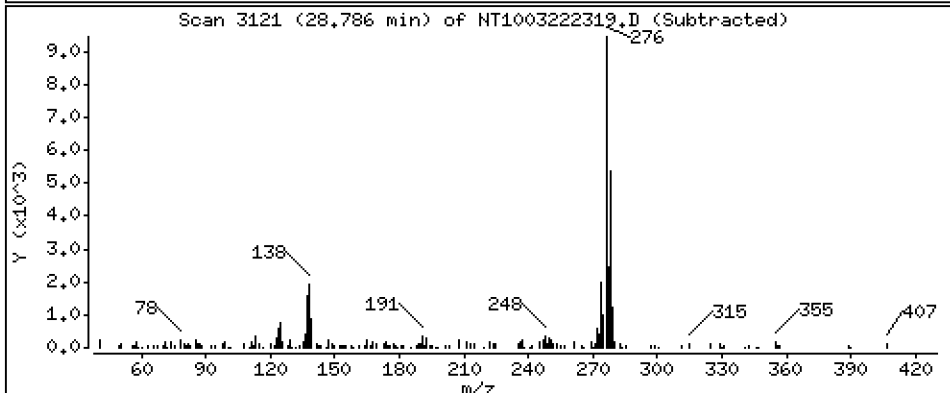
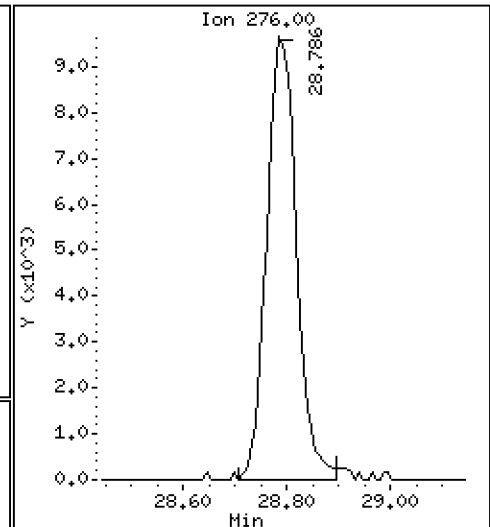
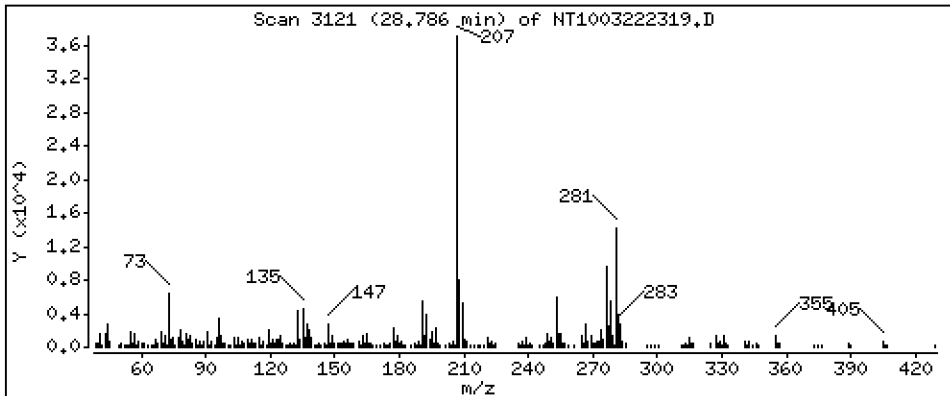
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

78 Indeno(1,2,3-cd)pyrene

Concentration: 0,2021 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

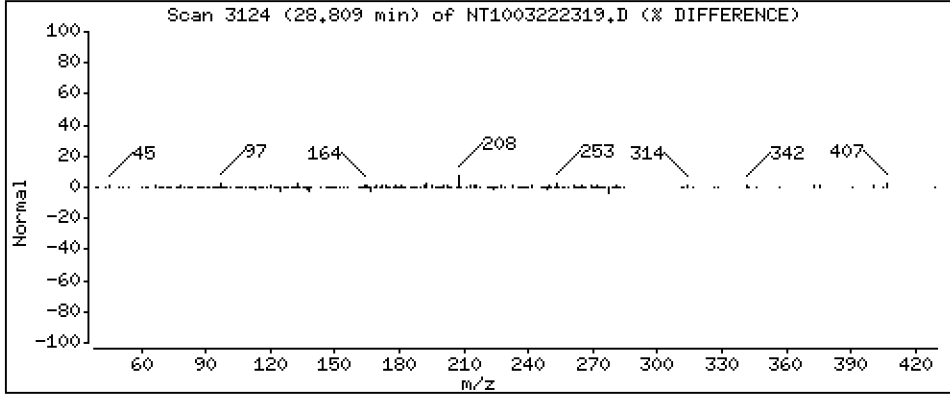
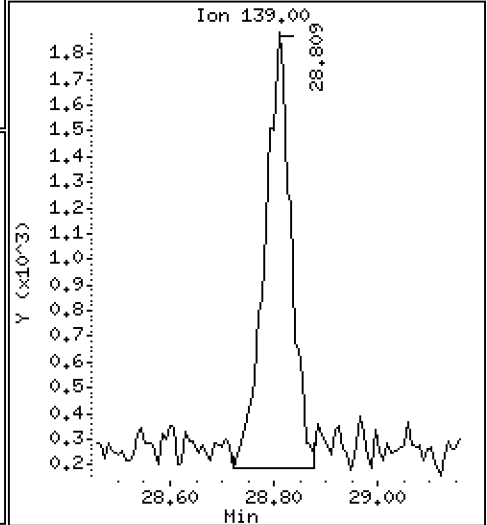
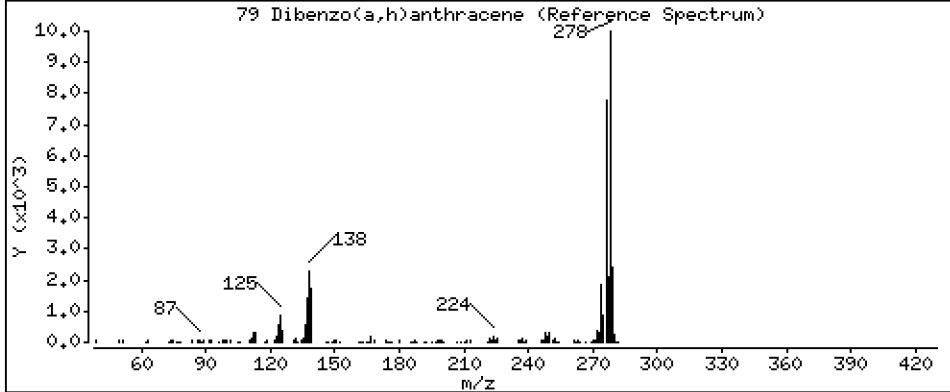
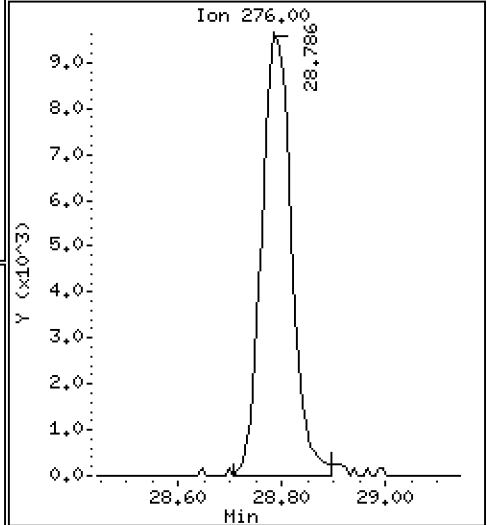
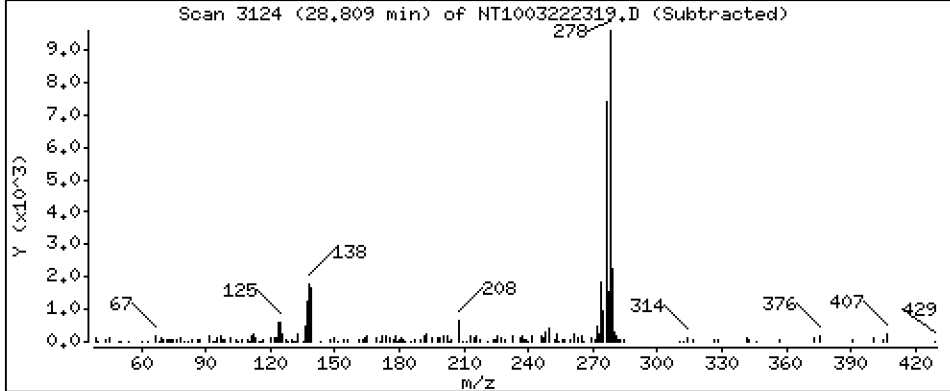
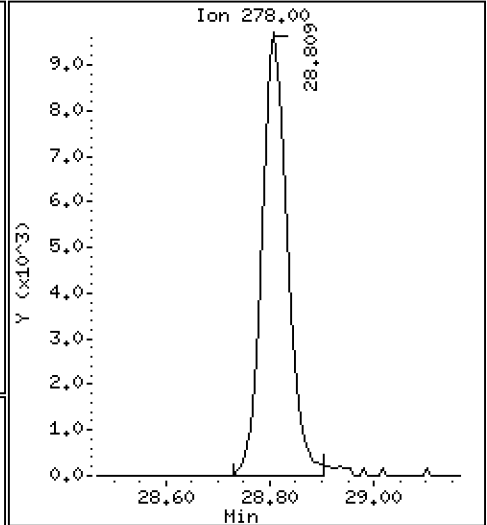
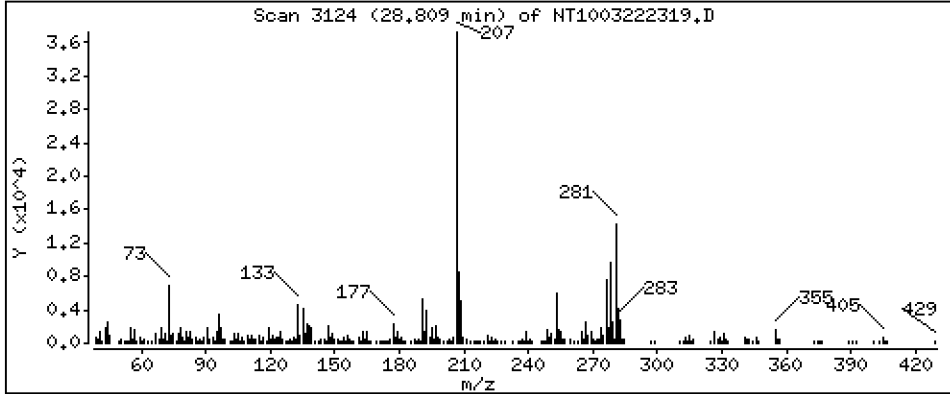
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2076 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

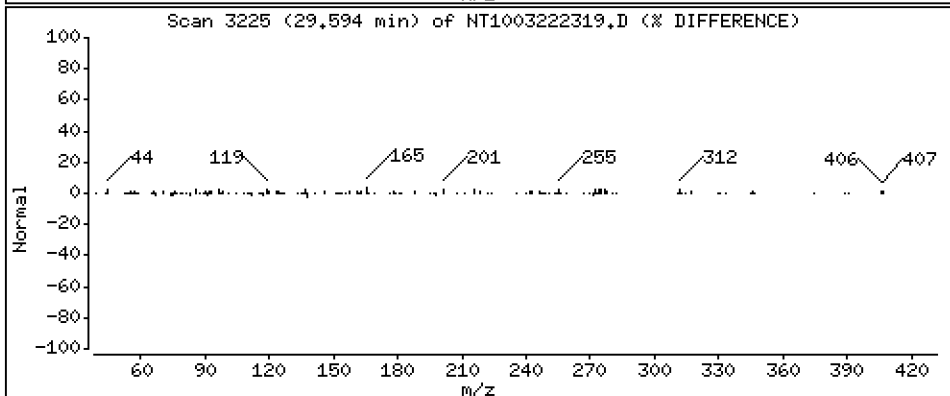
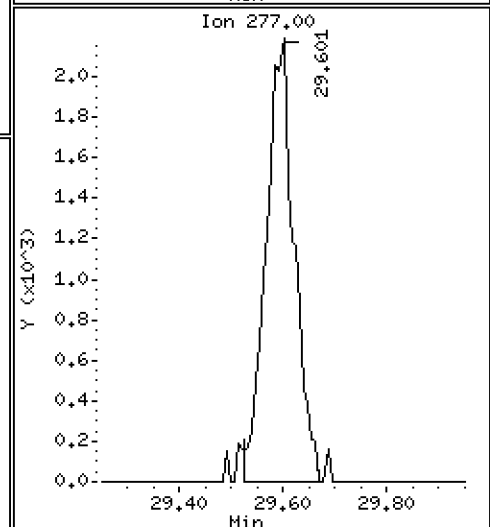
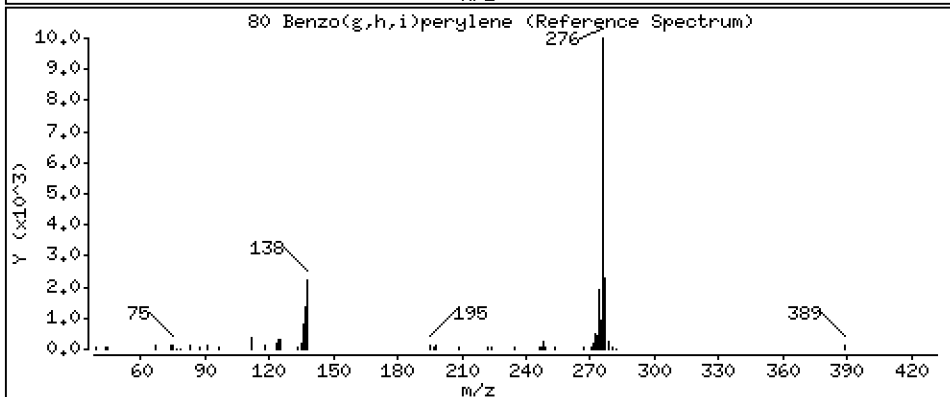
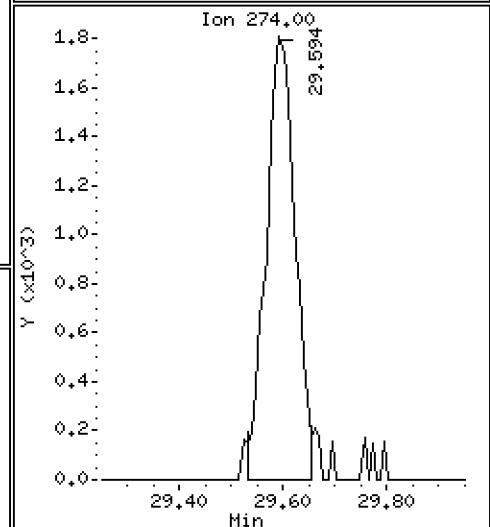
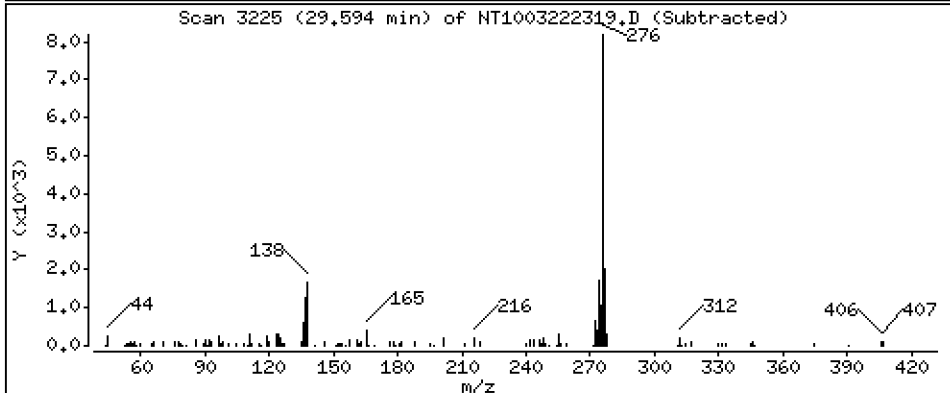
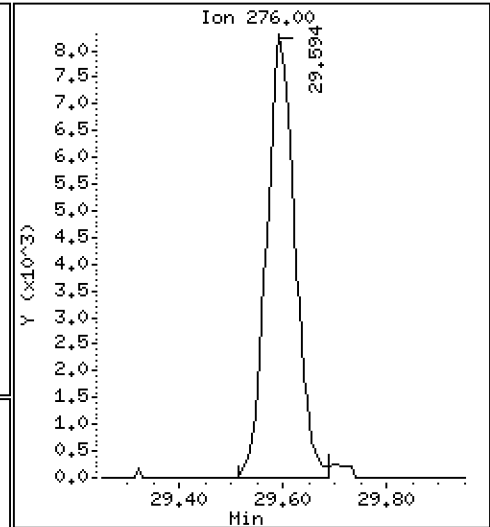
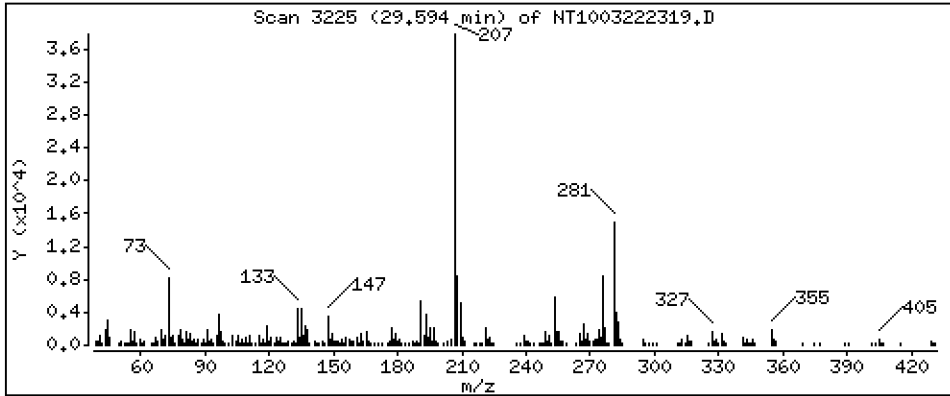
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,1897 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

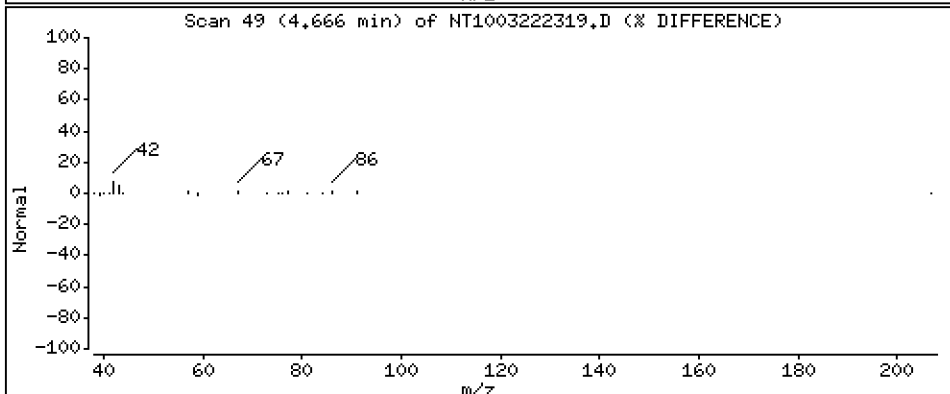
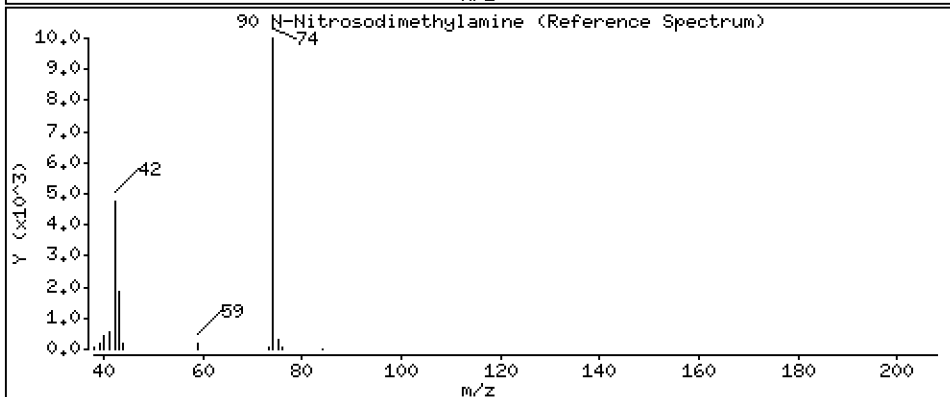
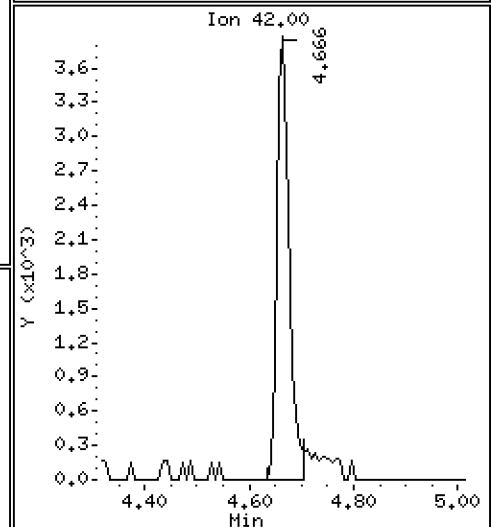
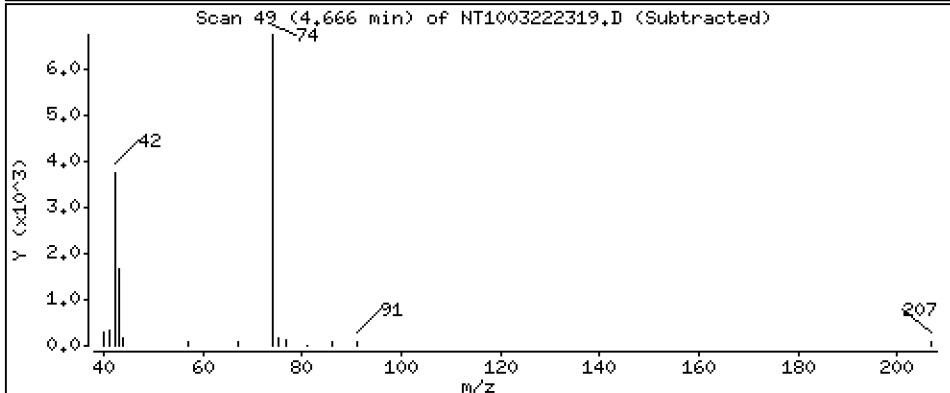
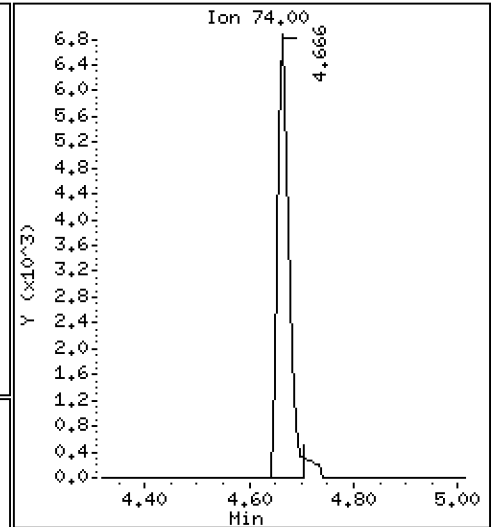
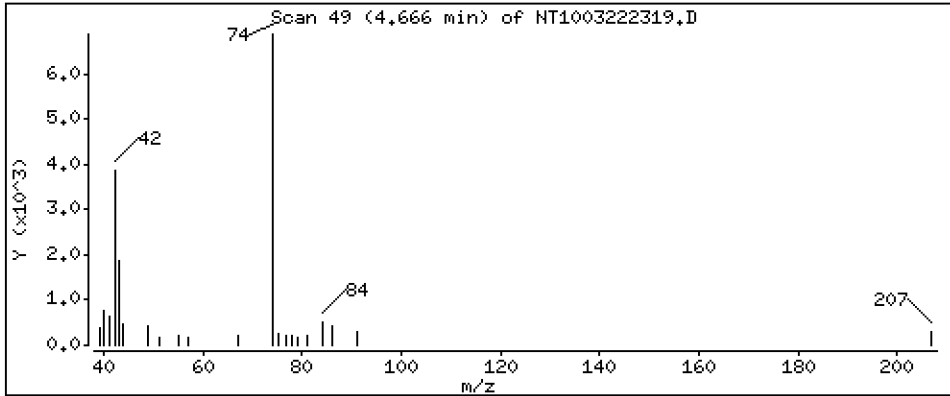
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 0.3705 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

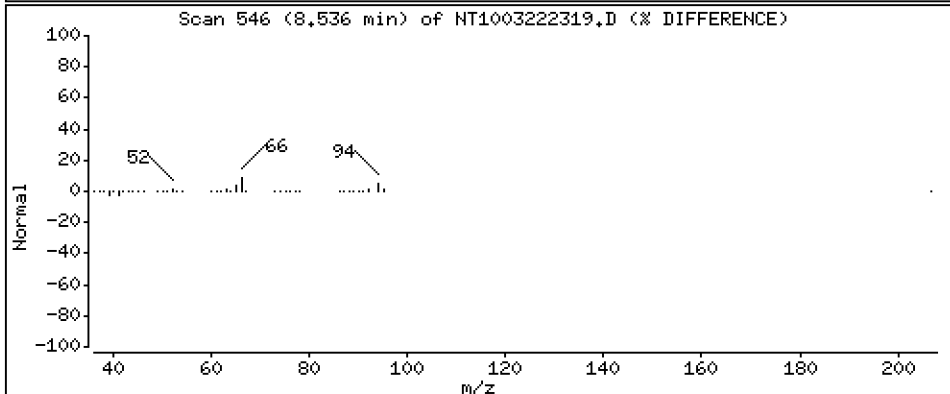
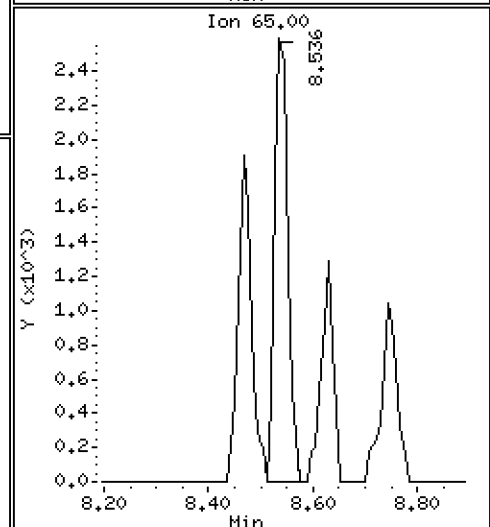
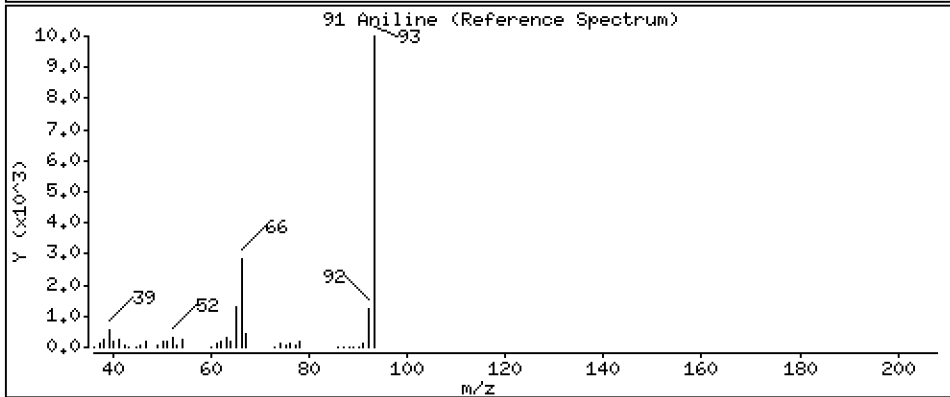
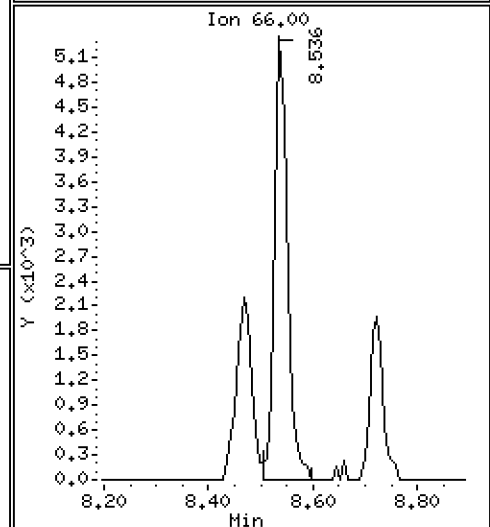
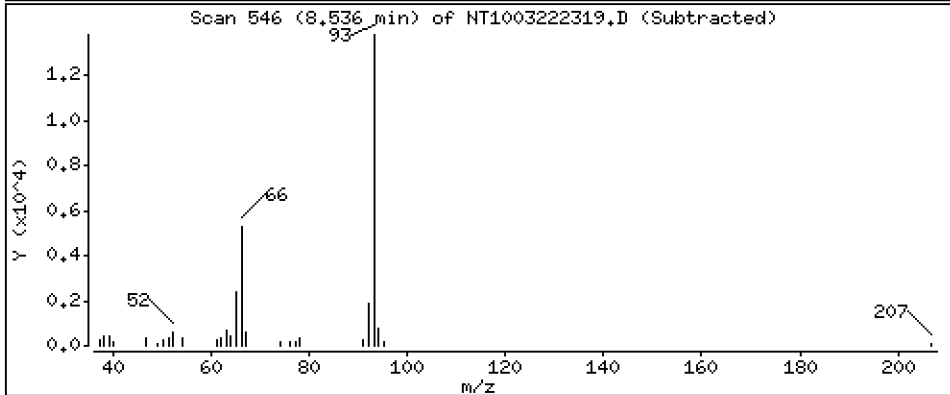
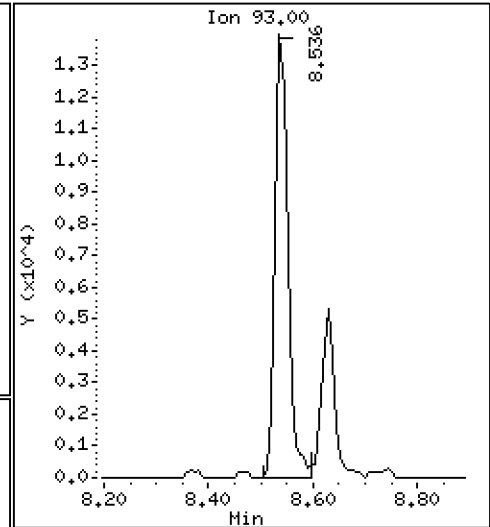
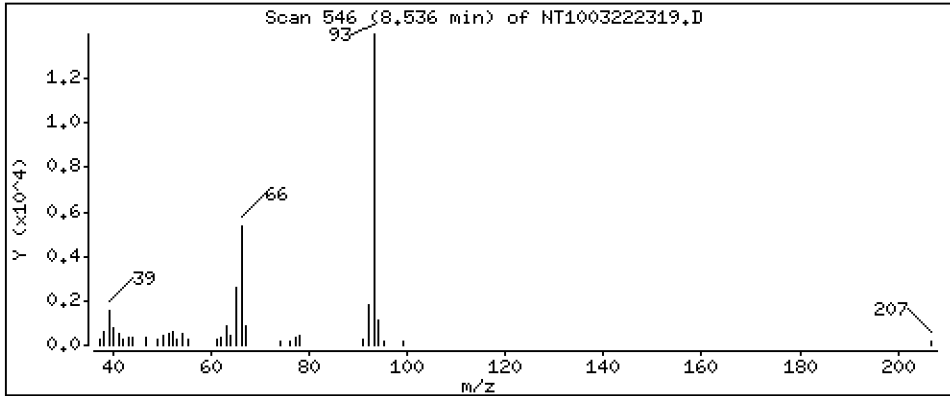
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.3971 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

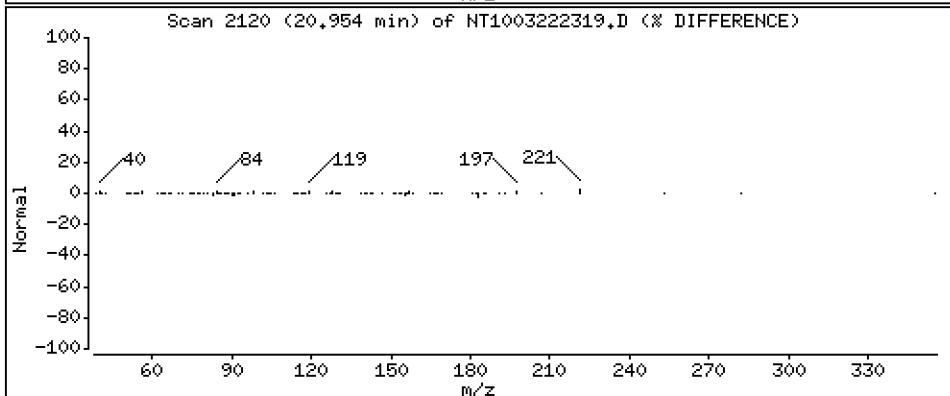
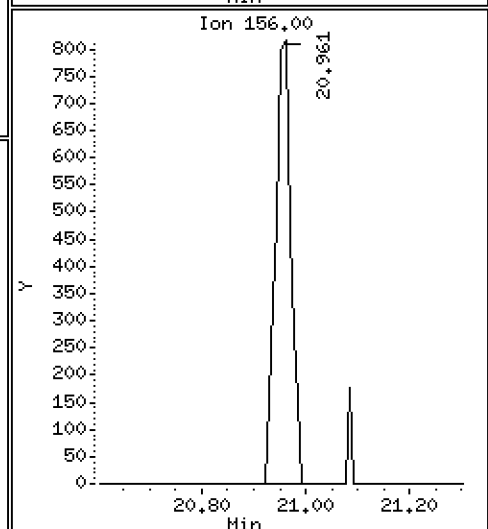
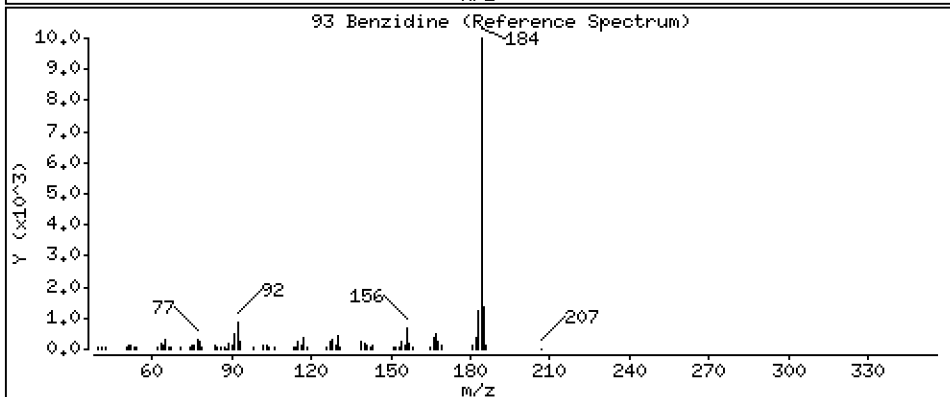
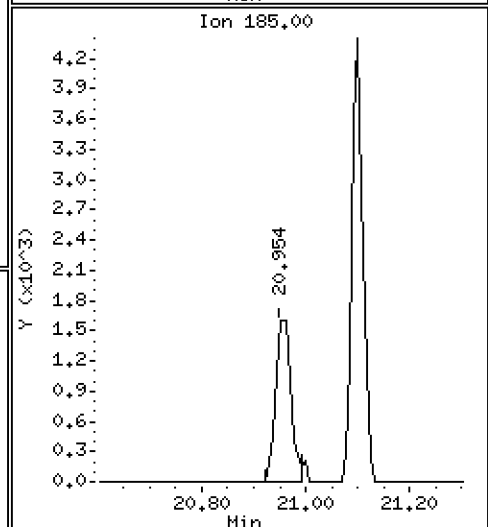
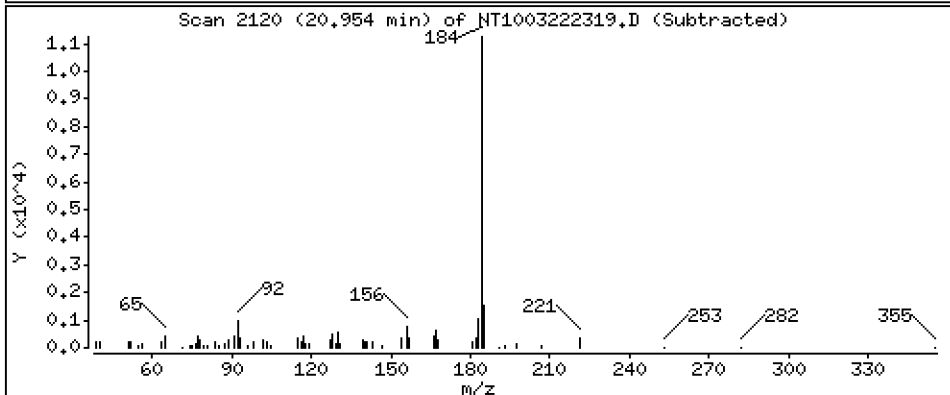
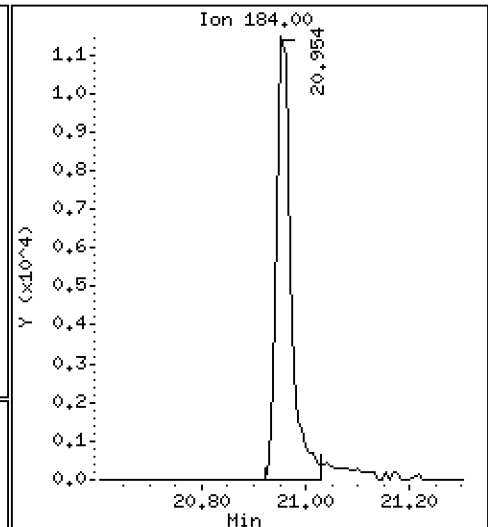
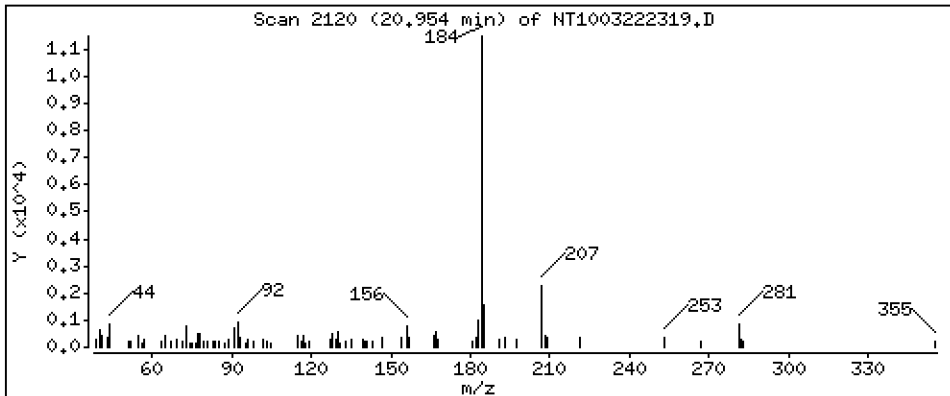
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,2928 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

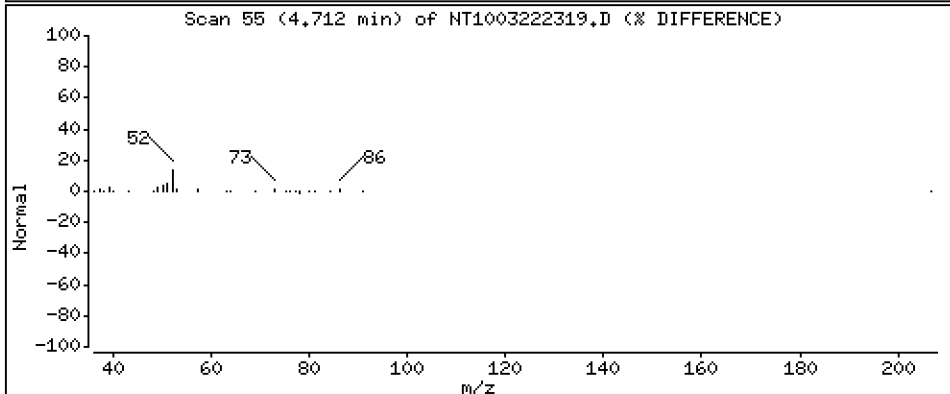
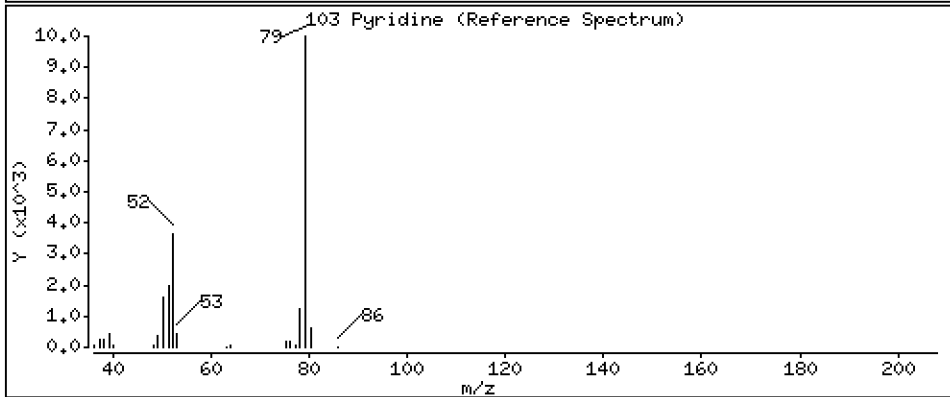
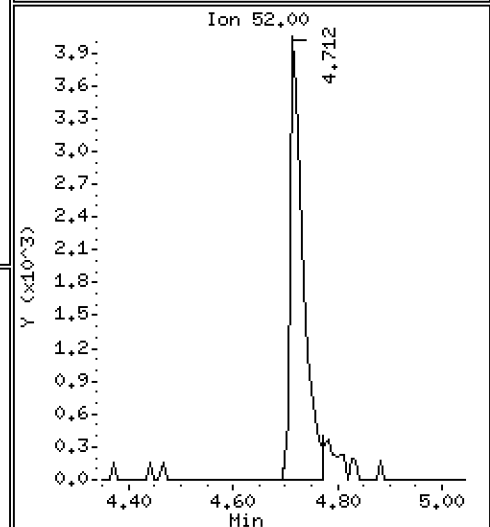
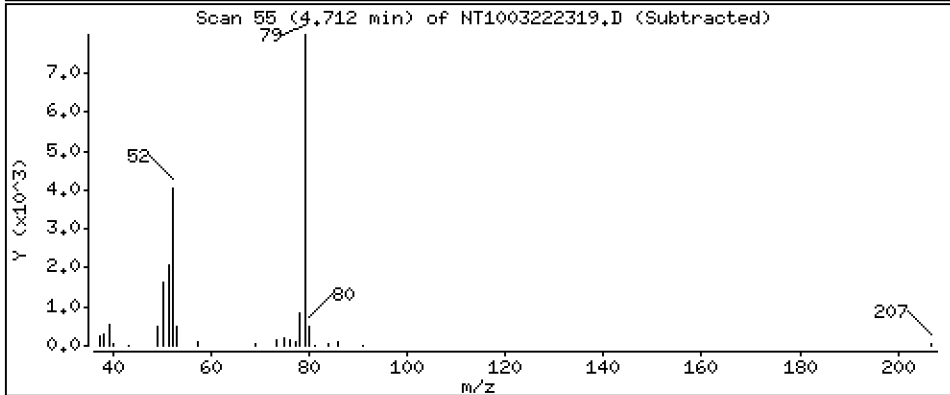
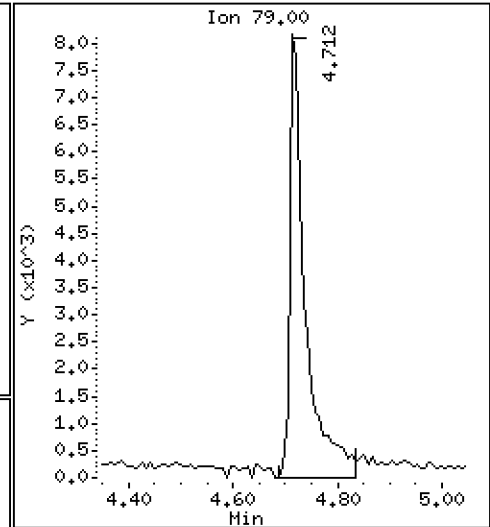
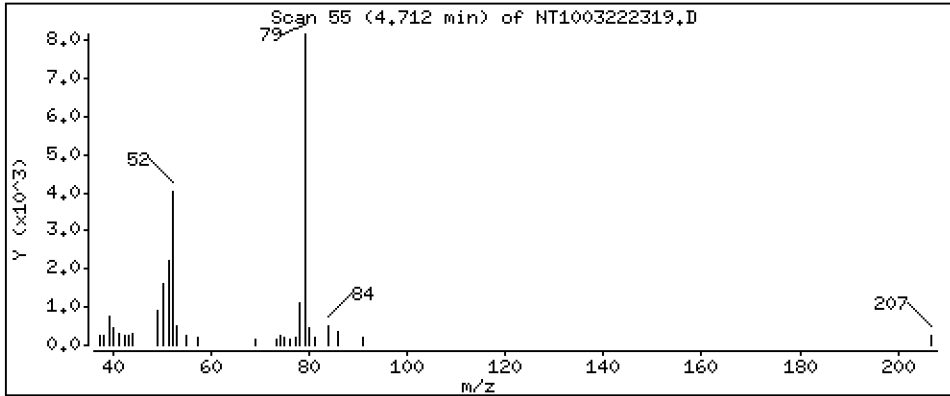
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,4289 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

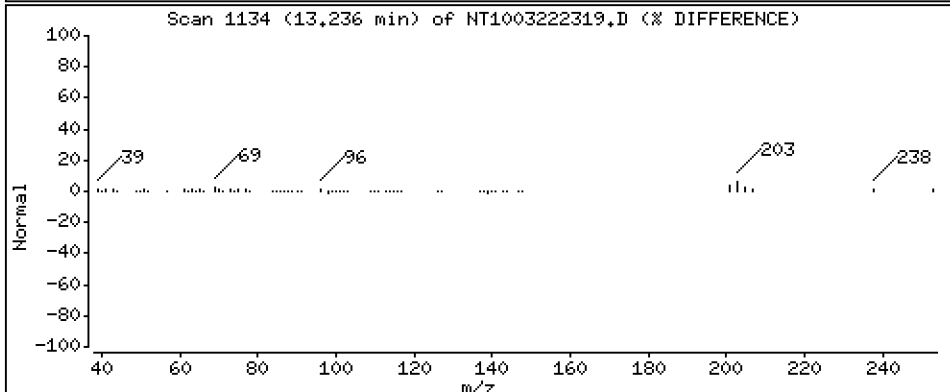
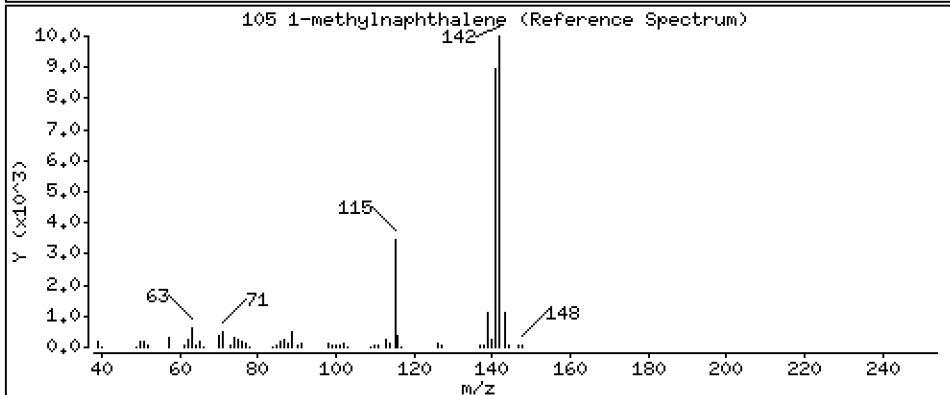
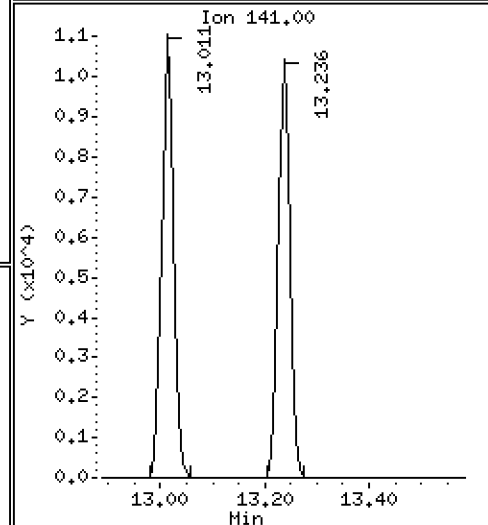
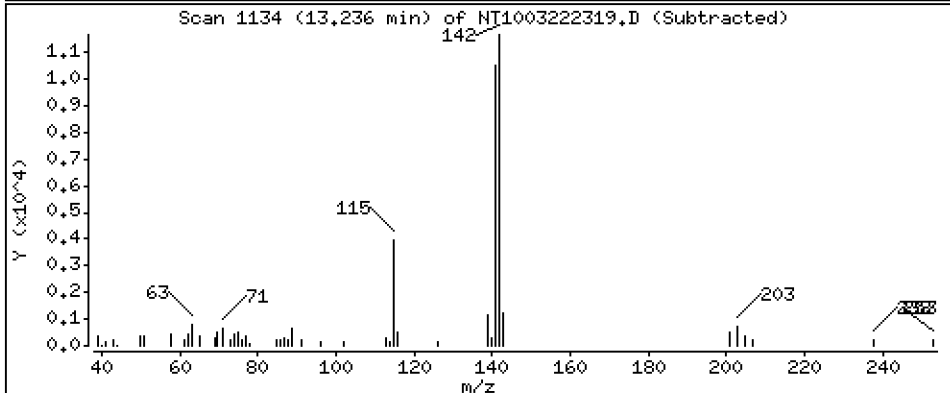
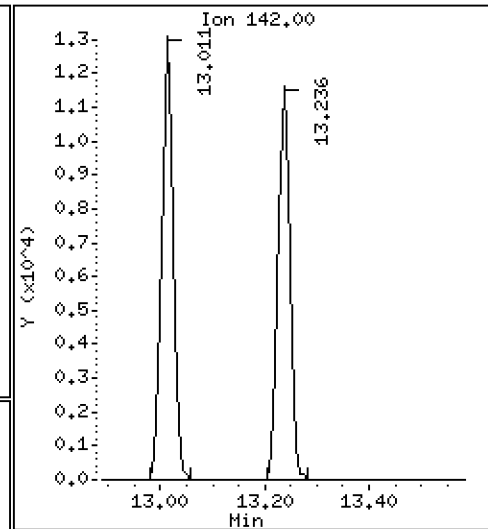
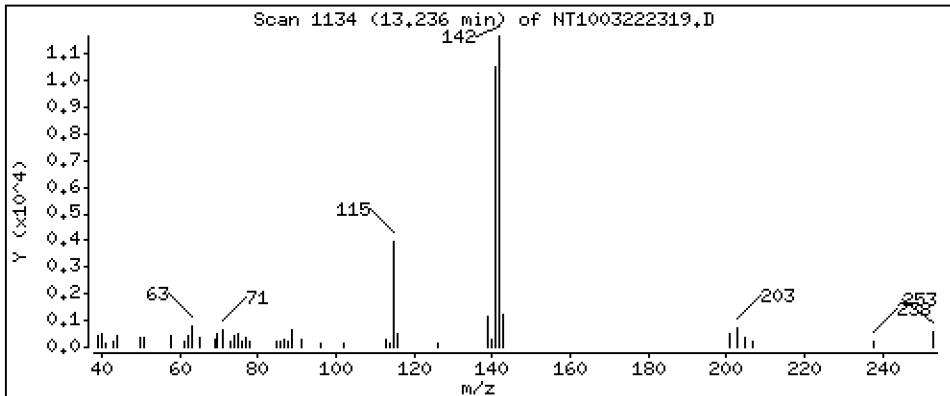
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,2075 ug/mL





Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

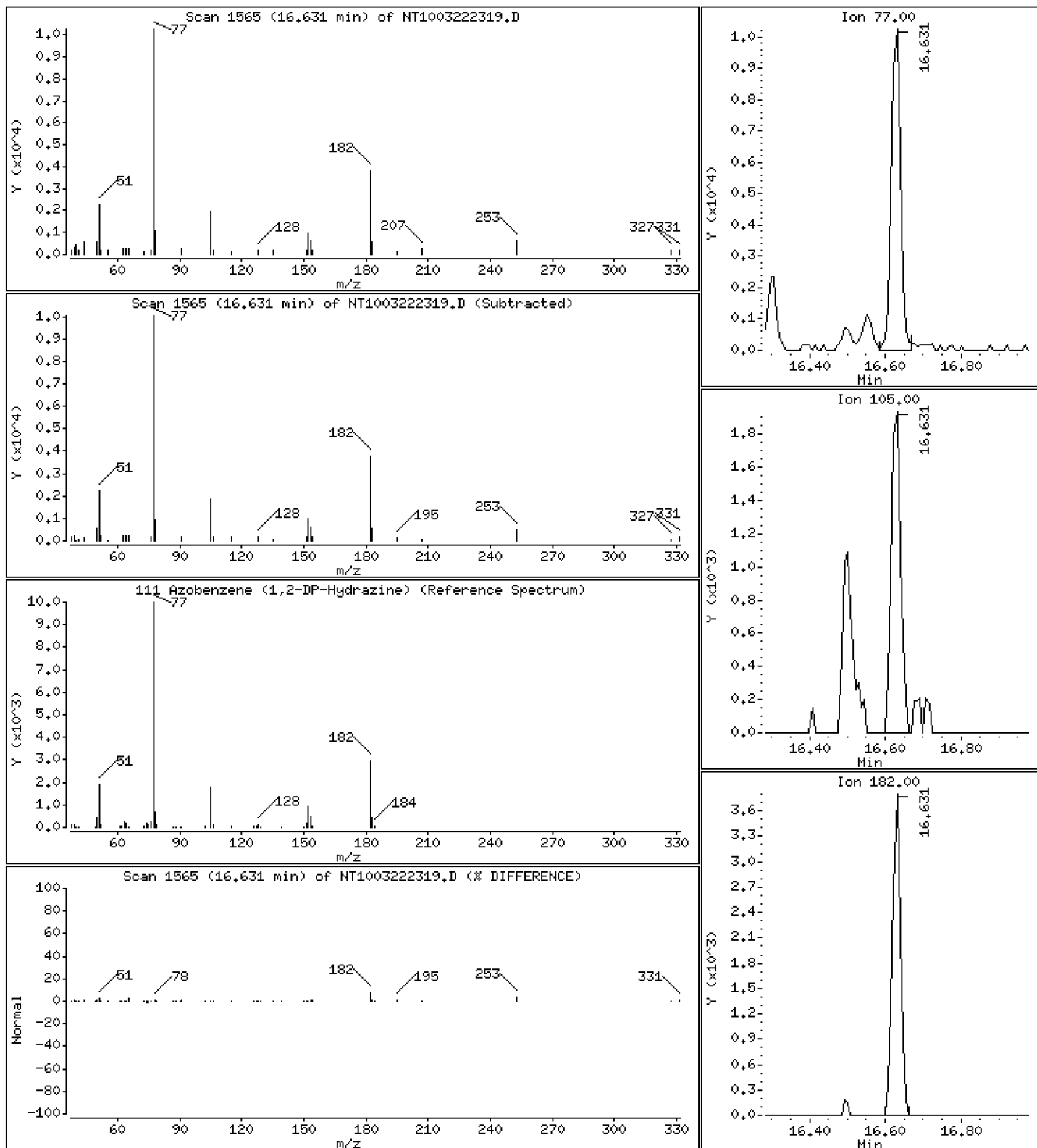
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,1755 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

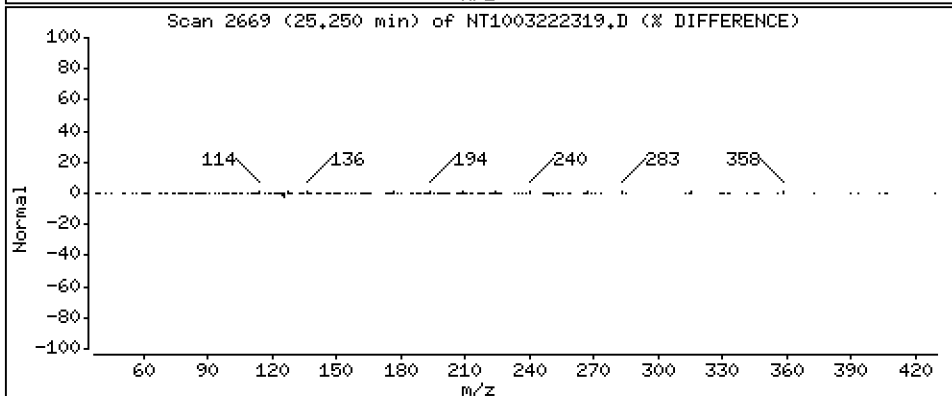
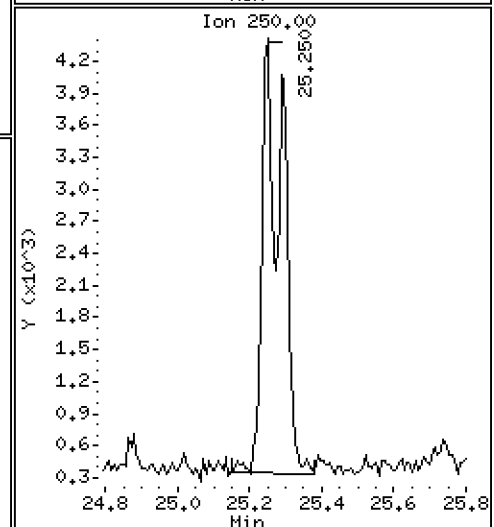
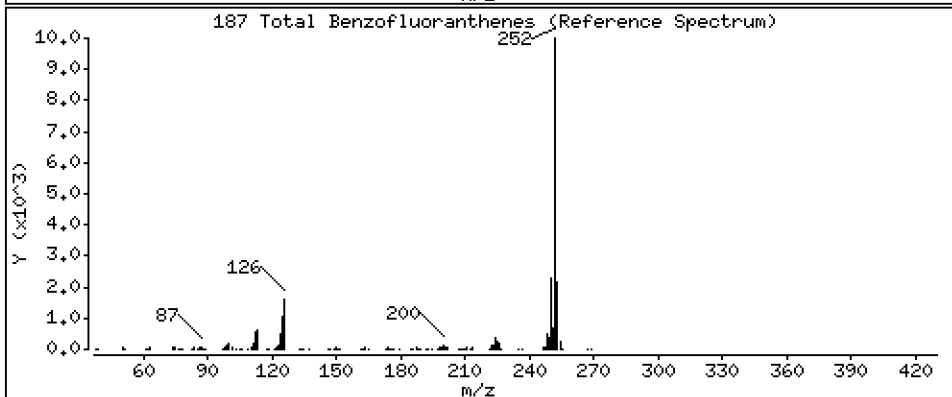
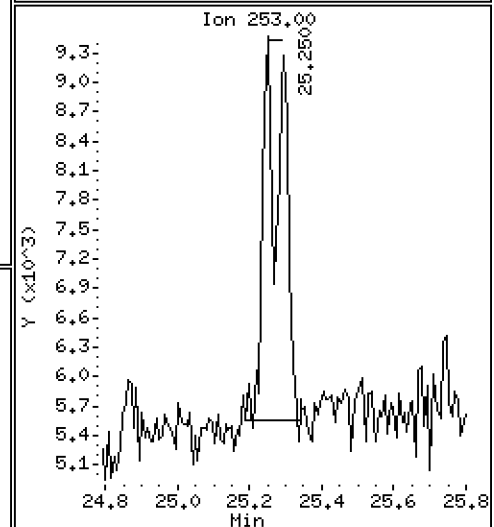
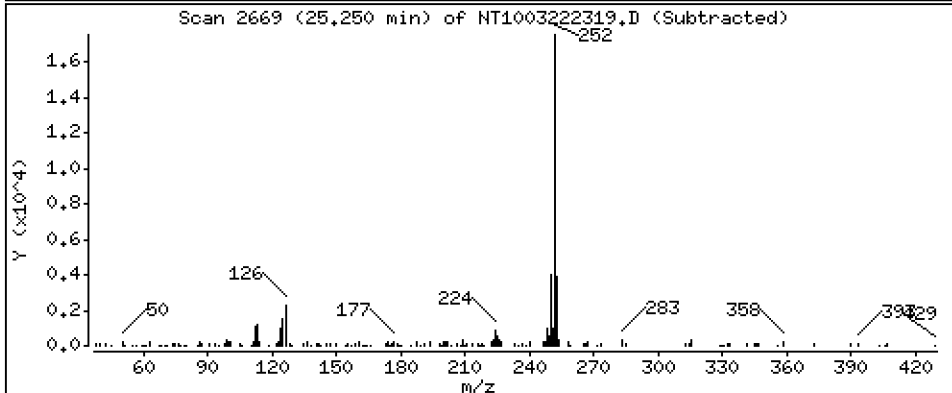
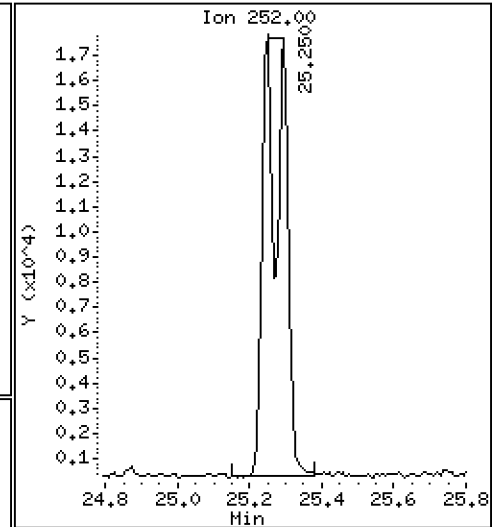
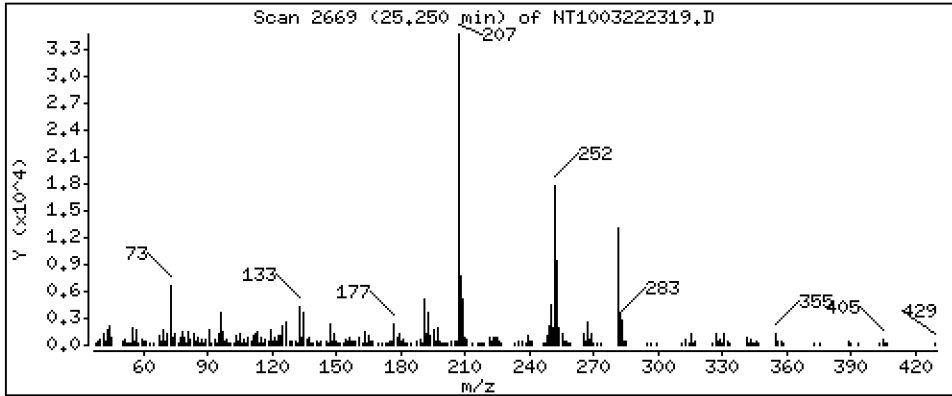
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,4281 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

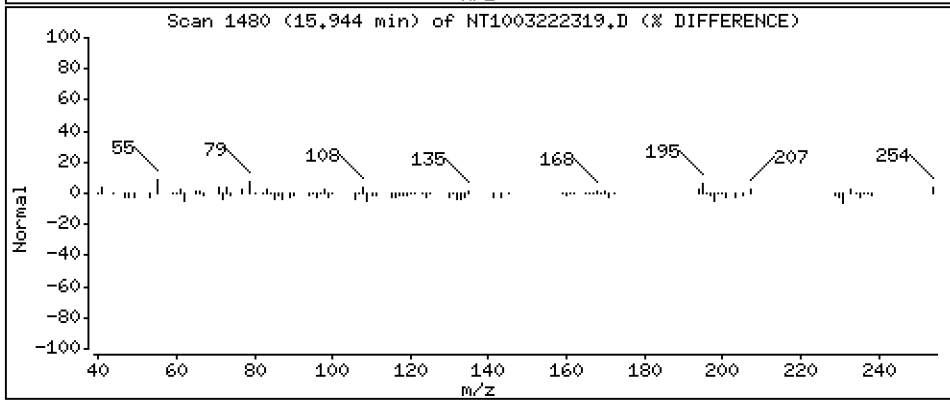
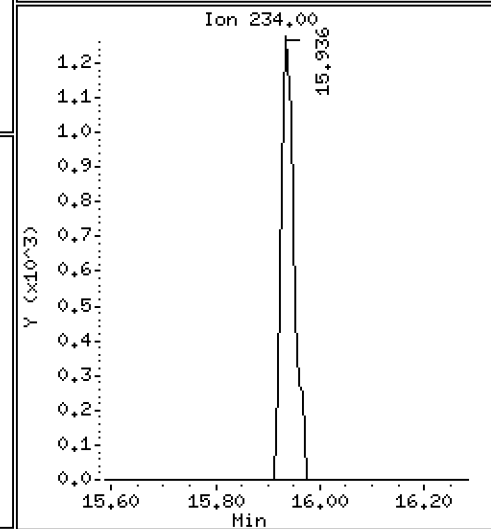
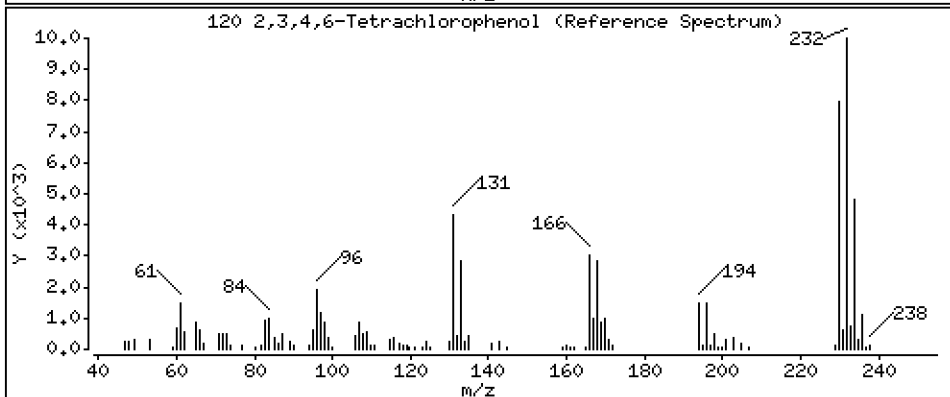
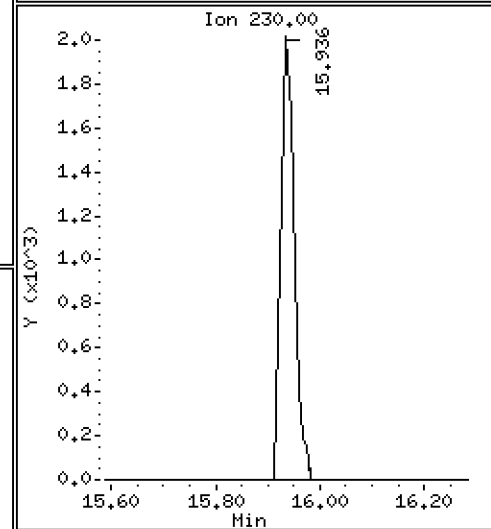
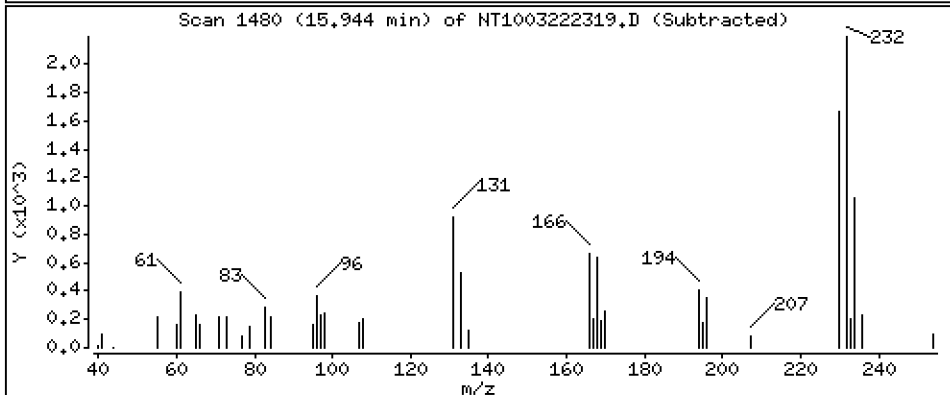
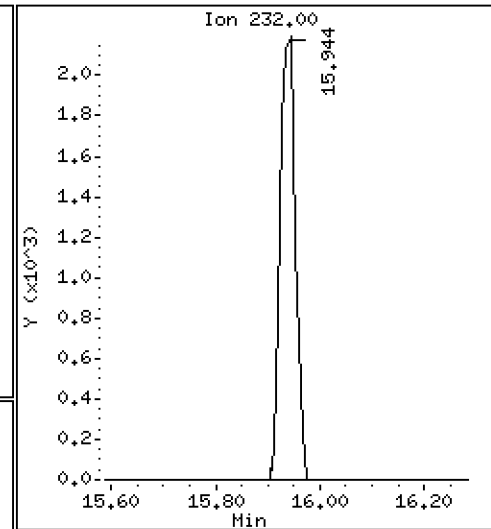
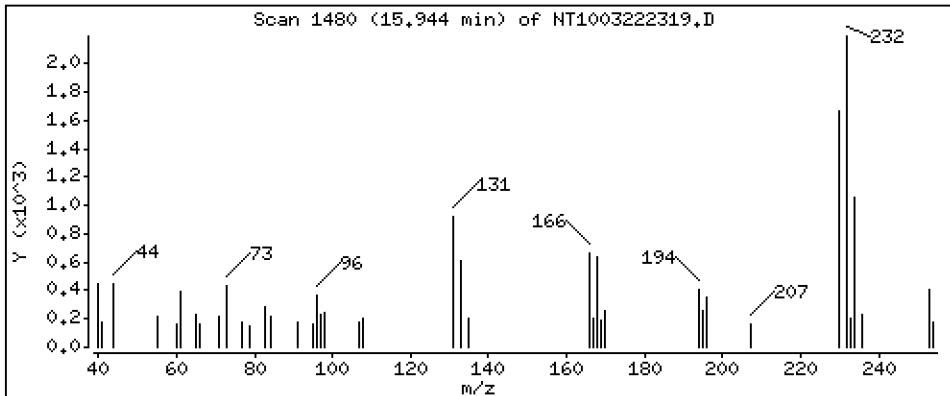
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1606 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222319.D  
 Lab Smp Id: SLC0397-LCV2  
 Inj Date : 23-MAR-2023 04:30  
 Operator : VTS  
 Smp Info : SLC0397-LCV2  
 Misc Info :  
 Comment : 1ul Injection  
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Meth Date : 25-Mar-2023 10:11 van  
 Cal Date : 16-MAR-2023 00:22  
 Als bottle: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD  
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |              |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|--------------|
|                                 |       |     |        |        |         |          | ON-COLUMN      | FINAL        |
|                                 | MASS  |     |        |        |         |          | (ug/mL)        | (ug/mL)      |
| \$ 1 2-Fluorophenol             | 112   |     | 6.851  | 6.851  | (0.754) | 12449    | 0.30214        | 0.3021       |
| \$ 2 Phenol-d5                  | 99    |     | 8.443  | 8.450  | (0.929) | 15617    | 0.28893        | 0.2889       |
| 3 Phenol                        | 94    |     | 8.466  | 8.474  | (0.932) | 10766    | 0.19167        | 0.1917       |
| \$ 5 2-Chlorophenol-d4          | 132   |     | 8.721  | 8.721  | (0.960) | 13942    | 0.30206        | 0.3021       |
| 4 Bis(2-Chloroethyl)ether       | 93    |     | 8.628  | 8.628  | (0.950) | 9035     | 0.21688        | 0.2169       |
| 6 2-Chlorophenol                | 128   |     | 8.744  | 8.752  | (0.963) | 9283     | 0.19311        | 0.1931       |
| 7 1,3-Dichlorobenzene           | 146   |     | 9.015  | 9.022  | (0.992) | 10592    | 0.20841        | 0.2084       |
| * 8 1,4-Dichlorobenzene-d4      | 152   |     | 9.085  | 9.085  | (1.000) | 136247   | 4.00000        |              |
| 9 1,4-Dichlorobenzene           | 146   |     | 9.116  | 9.116  | (1.003) | 9814     | 0.19990        | 0.1999       |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 9.442  | 9.441  | (1.039) | 6870     | 0.20726        | 0.2073       |
| 12 1,2-Dichlorobenzene          | 146   |     | 9.465  | 9.473  | (1.042) | 10082    | 0.20866        | 0.2087       |
| 11 Benzyl alcohol               | 108   |     | 9.356  | 9.356  | (1.030) | 5087     | 0.19295        | 0.1930       |
| 14 2,2'-oxybis(1-Chloropropane) | 121   |     | 9.659  | 9.659  | (1.063) | 2840     | 0.20015        | 0.2002 (M)   |
| 13 2-Methylphenol               | 108   |     | 9.589  | 9.589  | (1.056) | 7722     | 0.18859        | 0.1886       |
| 17 Hexachloroethane             | 117   |     | 10.063 | 10.063 | (1.108) | 2697     | 0.13389        | 0.1339       |
| 16 N-Nitroso-di-n-propylamine   | 70    |     | 9.915  | 9.915  | (1.091) | 5914     | 0.18292        | 0.1829       |
| 15 4-Methylphenol               | 108   |     | 9.861  | 9.861  | (1.085) | 8096     | 0.18766        | 0.1877       |
| \$ 18 Nitrobenzene-d5           | 82    |     | 10.179 | 10.179 | (0.880) | 9421     | 0.19414        | 0.1941       |
| 19 Nitrobenzene                 | 77    |     | 10.218 | 10.218 | (0.883) | 8578     | 0.18013        | 0.1801       |
| 20 Isophorone                   | 82    |     | 10.668 | 10.668 | (0.922) | 10843    | 0.17798        | 0.1780       |
| 21 2-Nitrophenol                | 139   |     | 10.850 | 10.850 | (0.938) | 5229     | 0.22580        | 0.2258       |
| 22 2,4-Dimethylphenol           | 107   |     | 10.901 | 10.901 | (0.942) | 16905    | 0.38648        | 0.3865       |
| 23 Bis(2-Chloroethoxy)methane   | 93    |     | 11.096 | 11.096 | (0.959) | 8502     | 0.20893        | 0.2089       |
| 24 Benzoic acid                 | 105   |     | 11.003 | 11.105 | (0.951) | 10120    | 0.41639        | 0.4164       |
| 25 2,4-Dichlorophenol           | 162   |     | 11.308 | 11.308 | (0.977) | 14071    | 0.40199        | 0.4020       |
| 26 1,2,4-Trichlorobenzene       | 180   |     | 11.487 | 11.487 | (0.993) | 9371     | 0.22807        | 0.2281       |
| * 27 Naphthalene-d8             | 136   |     | 11.572 | 11.572 | (1.000) | 480759   | 4.00000        |              |
| 28 Naphthalene                  | 128   |     | 11.611 | 11.618 | (1.003) | 26482    | 0.20793        | 0.2079       |
| 29 4-Chloroaniline              | 127   |     | 11.750 | 11.750 | (1.015) | 18795    | 0.37828        | 0.3783       |
| 30 Hexachlorobutadiene          | 225   |     | 11.974 | 11.981 | (1.035) | 5282     | 0.21939        | 0.2194       |
| 31 4-Chloro-3-methylphenol      | 107   |     | 12.717 | 12.717 | (1.099) | 13262    | 0.34999        | 0.3500       |
| 32 2-Methylnaphthalene          | 142   |     | 13.011 | 13.018 | (1.124) | 19639    | 0.21367        | 0.2137       |
| 33 Hexachlorocyclopentadiene    | 237   |     | 13.483 | 13.483 | (0.887) | 164      | 0.00676        | 0.006755 (H) |

| Compounds                         | QUANT SIG |        |        | CONCENTRATIONS |          |                      |                  |
|-----------------------------------|-----------|--------|--------|----------------|----------|----------------------|------------------|
|                                   | MASS      | RT     | EXP RT | REL RT         | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 34 2,4,6-Trichlorophenol          | 196       | 13.638 | 13.638 | (0.897)        | 10131    | 0.39076              | 0.3908           |
| 35 2,4,5-Trichlorophenol          | 196       | 13.715 | 13.715 | (0.902)        | 10922    | 0.37913              | 0.3791           |
| § 36 2-Fluorobiphenyl             | 172       | 13.800 | 13.800 | (0.908)        | 22088    | 0.21286              | 0.2129           |
| 37 2-Chloronaphthalene            | 162       | 14.009 | 14.009 | (0.922)        | 17170    | 0.20436              | 0.2044           |
| 38 2-Nitroaniline                 | 65        | 14.272 | 14.272 | (0.939)        | 7095     | 0.30062              | 0.3006           |
| 39 Dimethylphthalate              | 163       | 14.706 | 14.706 | (0.967)        | 18091    | 0.21230              | 0.2123           |
| 40 Acenaphthylene                 | 152       | 14.884 | 14.884 | (0.979)        | 27205    | 0.20779              | 0.2078           |
| 41 2,6-Dinitrotoluene             | 165       | 14.845 | 14.845 | (0.977)        | 7159     | 0.38889              | 0.3889           |
| * 42 Acenaphthene-d10             | 164       | 15.201 | 15.201 | (1.000)        | 262317   | 4.00000              |                  |
| 43 3-Nitroaniline                 | 138       | 15.132 | 15.131 | (0.995)        | 6137     | 0.29536              | 0.2954           |
| 44 Acenaphthene                   | 153       | 15.263 | 15.263 | (1.004)        | 16698    | 0.20645              | 0.2064           |
| 45 2,4-Dinitrophenol              | 184       | 15.348 | 15.348 | (1.010)        | 1058     | 0.09523              | 0.09523          |
| 46 Dibenzofuran                   | 168       | 15.595 | 15.595 | (1.026)        | 24392    | 0.20451              | 0.2045           |
| 47 4-Nitrophenol                  | 109       | 15.472 | 15.464 | (1.018)        | 2304     | 0.17630              | 0.1763 (M)       |
| 48 2,4-Dinitrotoluene             | 165       | 15.657 | 15.657 | (1.030)        | 9017     | 0.32385              | 0.3239           |
| 50 Diethylphthalate               | 149       | 16.168 | 16.175 | (1.064)        | 20952    | 0.25059              | 0.2506           |
| 49 Fluorene                       | 166       | 16.314 | 16.314 | (1.073)        | 19868    | 0.21173              | 0.2117           |
| 51 4-Chlorophenyl-phenylether     | 204       | 16.299 | 16.306 | (1.072)        | 9791     | 0.21942              | 0.2194           |
| 52 4-Nitroaniline                 | 138       | 16.407 | 16.406 | (1.079)        | 5751     | 0.30713              | 0.3071           |
| 53 4,6-Dinitro-2-methylphenol     | 198       | 16.499 | 16.507 | (0.904)        | 4835     | 0.33061              | 0.3306           |
| 54 N-Nitrosodiphenylamine         | 169       | 16.553 | 16.561 | (0.907)        | 13154    | 0.20335              | 0.2033           |
| § 55 2,4,6-Tribromophenol         | 330       | 16.846 | 16.846 | (1.108)        | 3480     | 0.28198              | 0.2820           |
| 56 4-Bromophenyl-phenylether      | 248       | 17.309 | 17.316 | (0.948)        | 5901     | 0.21806              | 0.2181           |
| 57 Hexachlorobenzene              | 284       | 17.626 | 17.634 | (0.966)        | 7304     | 0.25743              | 0.2574           |
| 58 Pentachlorophenol              | 266       | 17.998 | 17.990 | (0.986)        | 4172     | 0.24852              | 0.2485           |
| * 59 Phenanthrene-d10             | 188       | 18.253 | 18.260 | (1.000)        | 483839   | 4.00000              |                  |
| 60 Phenanthrene                   | 178       | 18.299 | 18.307 | (1.003)        | 27659    | 0.20965              | 0.2096           |
| 61 Anthracene                     | 178       | 18.400 | 18.400 | (1.008)        | 25399    | 0.20069              | 0.2007           |
| 62 Carbazole                      | 167       | 18.733 | 18.732 | (1.026)        | 22588    | 0.19918              | 0.1992           |
| 63 Di-n-butylphthalate            | 149       | 19.545 | 19.545 | (1.071)        | 36410    | 0.23881              | 0.2388           |
| 64 Fluoranthene                   | 202       | 20.713 | 20.713 | (0.887)        | 32088    | 0.18011              | 0.1801           |
| 65 Pyrene                         | 202       | 21.139 | 21.139 | (0.905)        | 32728    | 0.17908              | 0.1791           |
| § 66 Terphenyl-d14                | 244       | 21.433 | 21.433 | (0.918)        | 27249    | 0.19854              | 0.1985           |
| 67 Butylbenzylphthalate           | 149       | 22.378 | 22.377 | (0.958)        | 13847    | 0.21572              | 0.2157           |
| 68 Benzo(a)anthracene             | 228       | 23.322 | 23.322 | (0.999)        | 33588    | 0.21463              | 0.2146           |
| * 69 Chrysene-d12                 | 240       | 23.353 | 23.353 | (1.000)        | 443368   | 4.00000              |                  |
| 70 3,3'-Dichlorobenzidine         | 252       | 23.284 | 23.283 | (0.997)        | 32318    | 0.64472              | 0.6447           |
| 71 Chrysene                       | 228       | 23.392 | 23.399 | (1.002)        | 31246    | 0.20437              | 0.2044           |
| 72 bis(2-Ethylhexyl)phthalate     | 149       | 23.415 | 23.415 | (0.959)        | 18609    | 0.18724              | 0.1872           |
| * 134 Di-n-octylphthalate-d4      | 153       | 24.422 | 24.421 | (1.000)        | 679545   | 4.00000              |                  |
| 73 Di-n-octylphthalate            | 149       | 24.437 | 24.437 | (1.001)        | 35906    | 0.20191              | 0.2019           |
| 74 Benzo(b)fluoranthene           | 252       | 25.250 | 25.250 | (0.969)        | 32510    | 0.19420              | 0.1942           |
| 75 Benzo(k)fluoranthene           | 252       | 25.296 | 25.296 | (0.971)        | 38918    | 0.22895              | 0.2290           |
| 76 Benzo(a)pyrene                 | 252       | 25.924 | 25.923 | (0.995)        | 32284    | 0.21570              | 0.2157           |
| * 77 Perylene-d12                 | 264       | 26.048 | 26.040 | (1.000)        | 516437   | 4.00000              |                  |
| 78 Indeno(1,2,3-cd)pyrene         | 276       | 28.785 | 28.793 | (1.105)        | 38477    | 0.20207              | 0.2021           |
| 79 Dibenzo(a,h)anthracene         | 278       | 28.809 | 28.816 | (1.106)        | 32816    | 0.20758              | 0.2076           |
| 80 Benzo(g,h,i)perylene           | 276       | 29.593 | 29.601 | (1.136)        | 31258    | 0.18969              | 0.1897           |
| 90 N-Nitrosodimethylamine         | 74        | 4.665  | 4.665  | (0.514)        | 9740     | 0.37053              | 0.3705           |
| 91 Aniline                        | 93        | 8.536  | 8.543  | (0.940)        | 22857    | 0.39715              | 0.3971           |
| 93 Benzidine                      | 184       | 20.953 | 20.953 | (0.897)        | 21428    | 0.29282              | 0.2928           |
| 103 Pyridine                      | 79        | 4.712  | 4.696  | (0.519)        | 17313    | 0.42885              | 0.4289           |
| 105 1-methylnaphthalene           | 142       | 13.235 | 13.235 | (1.144)        | 17473    | 0.20749              | 0.2075           |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77        | 16.630 | 16.630 | (1.094)        | 16387    | 0.17545              | 0.1755           |

| Compounds                     | QUANT SIG |  | CONCENTRATIONS |        |         |          |                      |                  |
|-------------------------------|-----------|--|----------------|--------|---------|----------|----------------------|------------------|
|                               | MASS      |  | RT             | EXP RT | REL RT  | RESPONSE | ON-COLUMN<br>(ug/mL) | FINAL<br>(ug/mL) |
| 187 Total Benzofluoranthenes  | 252       |  | 25.250         | 25.296 | (0.969) | 69195    | 0.42810              | 0.4281           |
| 120 2,3,4,6-Tetrachlorophenol | 232       |  | 15.943         | 15.935 | (1.049) | 4240     | 0.16055              | 0.1606           |

QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-MAR-2023  
 Lab File ID: NT1003222319.D Calibration Time: 03:15  
 Lab Smp Id: SLC0397-LCV2  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: VTS  
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m  
 Misc Info:

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|-----------------------|----------|------------|---------|--------|--------|
|                       |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze   | 137603   | 68802      | 275206  | 136247 | -0.99  |
| 27 Naphthalene-d8     | 494588   | 247294     | 989176  | 480759 | -2.80  |
| 42 Acenaphthene-d10   | 278674   | 139337     | 557348  | 262317 | -5.87  |
| 59 Phenanthrene-d10   | 509229   | 254615     | 1018458 | 483839 | -4.99  |
| 69 Chrysene-d12       | 462271   | 231136     | 924542  | 443368 | -4.09  |
| 134 Di-n-octylphthala | 782572   | 391286     | 1565144 | 679545 | -13.17 |
| 77 Perylene-d12       | 551153   | 275577     | 1102306 | 516437 | -6.30  |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze   | 9.09     | 8.59     | 9.59  | 9.09   | 0.00  |
| 27 Naphthalene-d8     | 11.57    | 11.07    | 12.07 | 11.57  | 0.00  |
| 42 Acenaphthene-d10   | 15.20    | 14.70    | 15.70 | 15.20  | 0.00  |
| 59 Phenanthrene-d10   | 18.26    | 17.76    | 18.76 | 18.25  | -0.04 |
| 69 Chrysene-d12       | 23.35    | 22.85    | 23.85 | 23.35  | 0.00  |
| 134 Di-n-octylphthala | 24.42    | 23.92    | 24.92 | 24.42  | 0.00  |
| 77 Perylene-d12       | 26.04    | 25.54    | 26.54 | 26.05  | 0.03  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222319.D

Lab ID: SLC0397-LCV2  
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 04:30

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA   | COMPOUND     |
|-------|---------|---------|--------------|
| 0.951 | 0.960   | -0.0088 | Benzoic acid |

RRT check based on Ccal File: NT1003222317.D

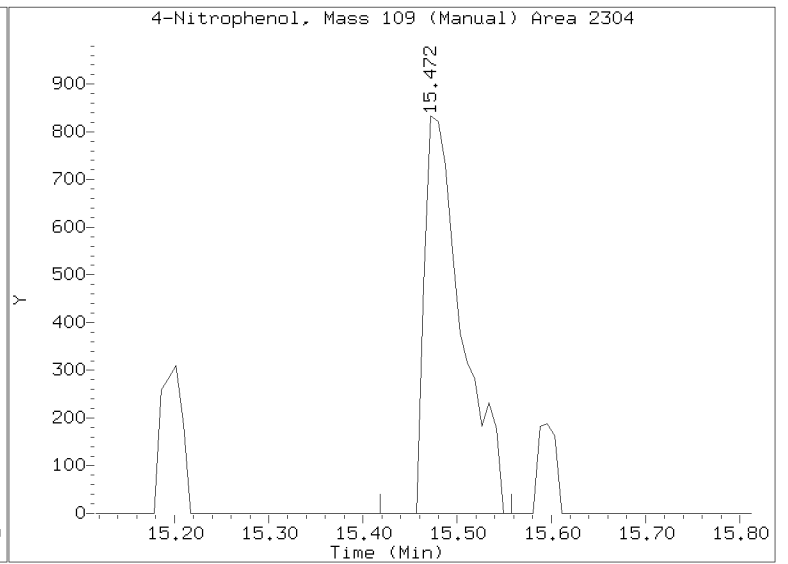
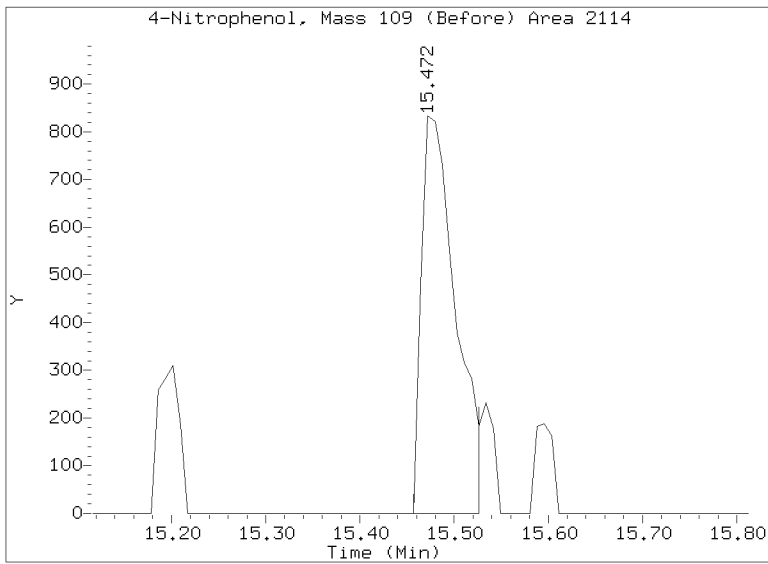
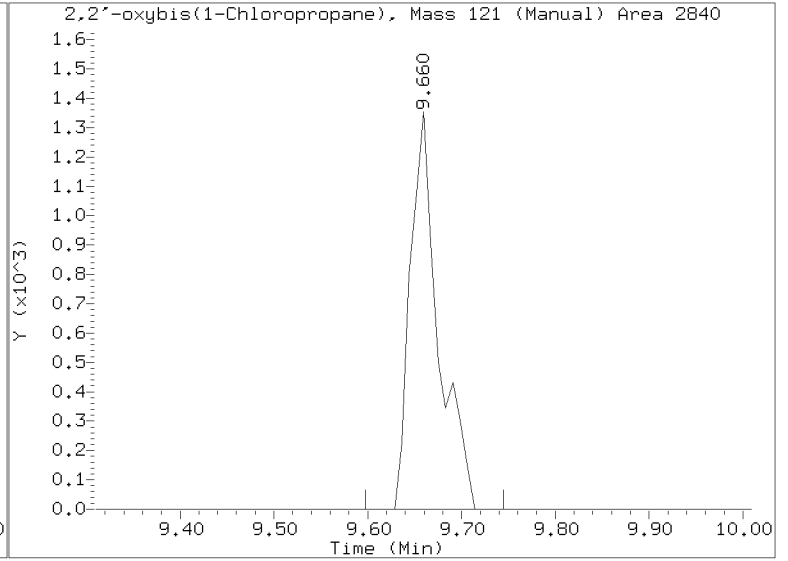
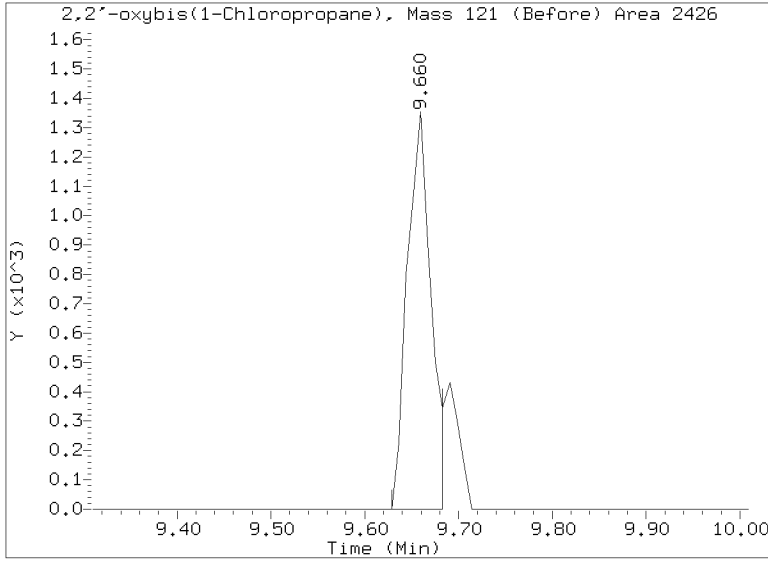
On Column LOD for nt10.i, 20230322.b\ABN.m, ICAL.sub = 0.0000

\* Only compounds listed in the work order have been verified by the analyst \*



# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222319.D  
Injection Date: 23-MAR-2023 04:30  
Lab ID: SLC0397-LCV2 Client ID:  
Report Date: 03/25/2023 10:11





## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0374

Instrument: NT14

Calibration: GC00033

| Sample Name       | Lab Sample ID | Lab File ID    | Matrix | Analysis Date/Time |
|-------------------|---------------|----------------|--------|--------------------|
| MS Tune           | SLB0374-TUN1  | NT1423022801.D | NA     | 02/28/23 11:26     |
| CAL 20            | SLB0374-CAL7  | NT1423022802.D | NA     | 02/28/23 11:39     |
| CAL 10            | SLB0374-CAL6  | NT1423022803.D | NA     | 02/28/23 12:15     |
| CAL 5             | SLB0374-CAL5  | NT1423022804.D | NA     | 02/28/23 12:51     |
| CAL 2.5           | SLB0374-CAL4  | NT1423022805.D | NA     | 02/28/23 13:28     |
| CAL 1.0           | SLB0374-CAL3  | NT1423022806.D | NA     | 02/28/23 14:04     |
| CAL 0.5           | SLB0374-CAL2  | NT1423022807.D | NA     | 02/28/23 14:40     |
| CAL 0.2           | SLB0374-CAL1  | NT1423022808.D | NA     | 02/28/23 15:16     |
| Initial Cal Blank | SLB0374-ICB1  | NT1423022811.D | NA     | 02/28/23 17:04     |
| SCV 5.0           | SLB0374-SCV1  | NT1423022812.D | NA     | 02/28/23 17:41     |
| ABN 5             | SLB0374-ICV1  | NT1423022813.D | NA     | 03/01/23 08:50     |
| ABN 5             | SLB0374-ICV2  | NT1423022821.D | NA     | 03/01/23 13:39     |
| ABN 0.2           | SLB0374-LCV1  | NT1423022823.D | NA     | 03/01/23 14:51     |
| ABN 0.5           | SLB0374-LCV2  | NT1423022825.D | NA     | 03/01/23 16:04     |
| Blank             | BLA0557-BLK1  | NT1423022826.D | Solid  | 03/01/23 16:40     |
| LCS               | BLA0557-BS1   | NT1423022827.D | Solid  | 03/01/23 17:16     |
| LCS Dup           | BLA0557-BSD1  | NT1423022828.D | Solid  | 03/01/23 17:52     |
| Reference         | BLA0557-SRM1  | NT1423022829.D | Solid  | 03/01/23 18:28     |
| LDW23-SS1277      | 23A0179-01    | NT1423022830.D | Solid  | 03/01/23 19:04     |
| LDW23-SS1271      | 23A0179-02    | NT1423022831.D | Solid  | 03/01/23 19:40     |
| LDW23-SS1266      | 23A0179-03    | NT1423022832.D | Solid  | 03/01/23 20:16     |
| LDW23-SS1248      | 23A0179-04    | NT1423022833.D | Solid  | 03/01/23 20:52     |
| LDW23-SS1239      | 23A0179-05    | NT1423022834.D | Solid  | 03/01/23 21:28     |
| LDW23-SS1213      | 23A0179-06    | NT1423022835.D | Solid  | 03/01/23 22:04     |
| ABN 5             | SLB0374-ICV3  | NT1423022836.D | NA     | 03/01/23 22:40     |
| ABN 0.2           | SLB0374-LCV3  | NT1423022838.D | NA     | 03/01/23 23:52     |
| ABN 0.5           | SLB0374-LCV4  | NT1423022839.D | NA     | 03/02/23 00:28     |
| LDW23-SS1200      | 23A0179-07    | NT1423022840.D | Solid  | 03/02/23 01:03     |
| LDW23-SS1178      | 23A0179-08    | NT1423022841.D | Solid  | 03/02/23 01:39     |



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0374

Instrument: NT14

Calibration: GC00033

| Sample Name       | Lab Sample ID | Lab File ID    | Matrix | Analysis Date/Time |
|-------------------|---------------|----------------|--------|--------------------|
| LDW23-SS1039      | 23A0179-11    | NT1423022842.D | Solid  | 03/02/23 02:15     |
| LDW23-SS1007      | 23A0179-12    | NT1423022843.D | Solid  | 03/02/23 02:51     |
| ZZZZZ             | 23A0180-01    | NT1423022844.D | Solid  | 03/02/23 03:27     |
| ZZZZZ             | 23A0180-02    | NT1423022845.D | Solid  | 03/02/23 04:03     |
| ZZZZZ             | 23A0180-03    | NT1423022846.D | Solid  | 03/02/23 04:39     |
| ZZZZZ             | 23A0180-04    | NT1423022847.D | Solid  | 03/02/23 05:15     |
| ABN 5             | SLB0374-ICV4  | NT1423022848.D | NA     | 03/02/23 05:52     |
| ABN 0.2           | SLB0374-LCV5  | NT1423022850.D | NA     | 03/02/23 07:04     |
| ABN 0.5           | SLB0374-LCV6  | NT1423022851.D | NA     | 03/02/23 07:40     |
| LDW23-SS1171      | 23A0179-09    | NT1423022852.D | Solid  | 03/02/23 08:16     |
| LDW23-SS1112      | 23A0179-10    | NT1423022853.D | Solid  | 03/02/23 08:53     |
| LDW23-SS1200      | BLA0557-MS1   | NT1423022854.D | Solid  | 03/02/23 09:29     |
| LDW23-SS1200      | BLA0557-MSD1  | NT1423022855.D | Solid  | 03/02/23 10:05     |
| Calibration Check | SLB0374-CCV1  | NT1423022856.D | NA     | 03/02/23 10:41     |



ANALYSIS SEQUENCE

SLB0374

Instrument ID: NT14      GCMS Description: Agilent 7890A/5975C XL  
Calibration ID: GC00033      GCMS Column ID: L001045  
MS EM Level: 1706 EV

| Lab Number   | Sample Name       | Analysis                   | Container | Order | STD ID  | ISTD ID | Analyzed         | File ID        | Analyst | Comments |
|--------------|-------------------|----------------------------|-----------|-------|---------|---------|------------------|----------------|---------|----------|
| SLB0374-TUN1 | MS Tune           | QC                         |           | 1     | K004775 |         | 02/28/2023 11:26 | NT1423022801.D | JGR     |          |
| SLB0374-CAL7 | CAL 20            | QC                         |           | 2     | K011111 | K010831 | 02/28/2023 11:39 | NT1423022802.D | JGR     |          |
| SLB0374-CAL6 | CAL 10            | QC                         |           | 3     | K011110 | K010831 | 02/28/2023 12:15 | NT1423022803.D | JGR     |          |
| SLB0374-CAL5 | CAL 5             | QC                         |           | 4     | K011109 | K010831 | 02/28/2023 12:51 | NT1423022804.D | JGR     |          |
| SLB0374-CAL4 | CAL 2.5           | QC                         |           | 5     | K011108 | K010831 | 02/28/2023 13:28 | NT1423022805.D | JGR     |          |
| SLB0374-CAL3 | CAL 1.0           | QC                         |           | 6     | K011107 | K010831 | 02/28/2023 14:04 | NT1423022806.D | JGR     |          |
| SLB0374-CAL2 | CAL 0.5           | QC                         |           | 7     | K011106 | K010831 | 02/28/2023 14:40 | NT1423022807.D | JGR     |          |
| SLB0374-CAL1 | CAL 0.2           | QC                         |           | 8     | K011105 | K010831 | 02/28/2023 15:16 | NT1423022808.D | JGR     |          |
| SLB0374-SCV1 | SCV 5.0           | QC                         |           | 9     | K010066 | K010831 | 02/28/2023 17:41 | NT1423022812.D | JGR     |          |
| SLB0374-ICB1 | Initial Cal Blank | QC                         |           | 10    | K005156 | K010831 | 02/28/2023 17:04 | NT1423022811.D | JGR     |          |
| SLB0374-ICV1 | ABN 5             | QC                         |           | 11    | K011109 | K010831 | 03/01/2023 08:50 | NT1423022813.D | JGR     |          |
| SLB0374-ICV2 | ABN 5             | QC                         |           | 12    | K011109 | K010831 | 03/01/2023 13:39 | NT1423022821.D | JGR     |          |
| SLB0374-LCV1 | ABN 0.2           | QC                         |           | 13    | K011105 | K010831 | 03/01/2023 14:51 | NT1423022823.D | JGR     |          |
| SLB0374-LCV2 | ABN 0.5           | QC                         |           | 14    | K011106 | K010831 | 03/01/2023 16:04 | NT1423022825.D | JGR     |          |
| BLA0557-BLK1 | Blank             | QC                         |           | 15    |         | K010831 | 03/01/2023 16:40 | NT1423022826.D | JGR     |          |
| BLA0557-BS1  | LCS               | QC                         |           | 16    |         | K010831 | 03/01/2023 17:16 | NT1423022827.D | JGR     |          |
| BLA0557-BSD1 | LCS Dup           | QC                         |           | 17    |         | K010831 | 03/01/2023 17:52 | NT1423022828.D | JGR     |          |
| BLA0557-SRM1 | Reference         | QC                         |           | 18    |         | K010831 | 03/01/2023 18:28 | NT1423022829.D | JGR     |          |
| 23A0179-01   | LDW23-SS1277      | 20ug/kg solid or 0.2ug/L l | A 02      | 19    |         | K010831 | 03/01/2023 19:04 | NT1423022830.D | JGR     |          |
| 23A0179-02   | LDW23-SS1271      | 20ug/kg solid or 0.2ug/L l | A 02      | 20    |         | K010831 | 03/01/2023 19:40 | NT1423022831.D | JGR     |          |
| 23A0179-03   | LDW23-SS1266      | 20ug/kg solid or 0.2ug/L l | A 02      | 21    |         | K010831 | 03/01/2023 20:16 | NT1423022832.D | JGR     |          |
| 23A0179-04   | LDW23-SS1248      | 20ug/kg solid or 0.2ug/L l | A 02      | 22    |         | K010831 | 03/01/2023 20:52 | NT1423022833.D | JGR     |          |



ANALYSIS SEQUENCE

SLB0374

Instrument ID: NT14      GCMS Description: Agilent 7890A/5975C XL  
 Calibration ID: GC00033      GCMS Column ID: L001045  
 MS EM Level: 1706 EV

| Lab Number   | Sample Name       | Analysis                   | Container | Order | STD ID  | ISTD ID | Analyzed         | File ID        | Analyst | Comments |
|--------------|-------------------|----------------------------|-----------|-------|---------|---------|------------------|----------------|---------|----------|
| 23A0179-05   | LDW23-SS1239      | 20ug/kg solid or 0.2ug/L l | A 02      | 23    |         | K010831 | 03/01/2023 21:28 | NT1423022834.D | JGR     |          |
| 23A0179-06   | LDW23-SS1213      | 20ug/kg solid or 0.2ug/L l | A 02      | 24    |         | K010831 | 03/01/2023 22:04 | NT1423022835.D | JGR     |          |
| SLB0374-ICV3 | ABN 5             | QC                         |           | 25    | K011109 | K010831 | 03/01/2023 22:40 | NT1423022836.D | JGR     |          |
| SLB0374-LCV3 | ABN 0.2           | QC                         |           | 26    | K011105 | K010831 | 03/01/2023 23:52 | NT1423022838.D | JGR     |          |
| SLB0374-LCV4 | ABN 0.5           | QC                         |           | 27    | K011106 | K010831 | 03/02/2023 00:28 | NT1423022839.D | JGR     |          |
| 23A0179-07   | LDW23-SS1200      | 20ug/kg solid or 0.2ug/L l | A 02      | 28    |         | K010831 | 03/02/2023 01:03 | NT1423022840.D | JGR     |          |
| 23A0179-08   | LDW23-SS1178      | 20ug/kg solid or 0.2ug/L l | A 02      | 29    |         | K010831 | 03/02/2023 01:39 | NT1423022841.D | JGR     |          |
| 23A0179-11   | LDW23-SS1039      | 20ug/kg solid or 0.2ug/L l | A 02      | 30    |         | K010831 | 03/02/2023 02:15 | NT1423022842.D | JGR     |          |
| 23A0179-12   | LDW23-SS1007      | 20ug/kg solid or 0.2ug/L l | A 02      | 31    |         | K010831 | 03/02/2023 02:51 | NT1423022843.D | JGR     |          |
| 23A0180-01   | LDW23-SC1164      | 20ug/kg solid or 0.2ug/L l | A 02      | 32    |         | K010831 | 03/02/2023 03:27 | NT1423022844.D | JGR     |          |
| 23A0180-02   | LDW23-SC1164-FD   | 20ug/kg solid or 0.2ug/L l | A 02      | 33    |         | K010831 | 03/02/2023 04:03 | NT1423022845.D | JGR     |          |
| 23A0180-03   | LDW23-SC1158      | 20ug/kg solid or 0.2ug/L l | A 02      | 34    |         | K010831 | 03/02/2023 04:39 | NT1423022846.D | JGR     |          |
| 23A0180-04   | LDW23-SC1151      | 20ug/kg solid or 0.2ug/L l | A 02      | 35    |         | K010831 | 03/02/2023 05:15 | NT1423022847.D | JGR     |          |
| SLB0374-ICV4 | ABN 5             | QC                         |           | 36    | K011109 | K010831 | 03/02/2023 05:52 | NT1423022848.D | JGR     |          |
| SLB0374-LCV5 | ABN 0.2           | QC                         |           | 37    | K011105 | K010831 | 03/02/2023 07:04 | NT1423022850.D | JGR     |          |
| SLB0374-LCV6 | ABN 0.5           | QC                         |           | 38    | K011106 | K010831 | 03/02/2023 07:40 | NT1423022851.D | JGR     |          |
| 23A0179-09   | LDW23-SS1171      | 20ug/kg solid or 0.2ug/L l | A 02      | 39    |         | K010831 | 03/02/2023 08:16 | NT1423022852.D | JGR     |          |
| 23A0179-10   | LDW23-SS1112      | 20ug/kg solid or 0.2ug/L l | A 02      | 40    |         | K010831 | 03/02/2023 08:53 | NT1423022853.D | JGR     |          |
| BLA0557-MS1  | Matrix Spike      | QC                         |           | 41    |         | K010831 | 03/02/2023 09:29 | NT1423022854.D | JGR     |          |
| BLA0557-MSD1 | Matrix Spike Dup  | QC                         |           | 42    |         | K010831 | 03/02/2023 10:05 | NT1423022855.D | JGR     |          |
| SLB0374-CCV1 | Calibration Check | QC                         |           | 43    | K011109 | K010831 | 03/02/2023 10:41 | NT1423022856.D | JGR     |          |

## INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230228.b

| Time | Filename | LabID          | ClientId     | DF |                |        |       |        |       |        |       |        |       |        |       |        |       |        |
|------|----------|----------------|--------------|----|----------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 1    | 1126     | NT1423022801.D | SLB0374-TUN1 | 1  | NO ISTDs FOUND |        |       |        |       |        |       |        |       |        |       |        |       |        |
| 2    | 1139     | NT1423022802.D | SLB0374-CAL7 | 1  | 8.22           | 113367 | 10.67 | 424117 | 14.26 | 251095 | 17.27 | 497175 | 22.38 | 380267 | 24.73 | 372957 | 23.49 | 489751 |
| 3    | 1215     | NT1423022803.D | SLB0374-CAL6 | 1  | 8.21           | 109658 | 10.67 | 398074 | 14.26 | 245951 | 17.26 | 485216 | 22.38 | 380106 | 24.72 | 359407 | 23.48 | 493409 |
| 4    | 1251     | NT1423022804.D | SLB0374-CAL5 | 1  | 8.21           | 114351 | 10.67 | 408655 | 14.25 | 254000 | 17.25 | 490626 | 22.38 | 390400 | 24.72 | 375675 | 23.48 | 500829 |
| 5    | 1328     | NT1423022805.D | SLB0374-CAL4 | 1  | 8.21           | 113228 | 10.67 | 405310 | 14.25 | 245142 | 17.25 | 485508 | 22.37 | 392724 | 24.71 | 375073 | 23.48 | 485486 |
| 6    | 1404     | NT1423022806.D | SLB0374-CAL3 | 1  | 8.21           | 117168 | 10.67 | 418158 | 14.25 | 252184 | 17.25 | 495615 | 22.37 | 397673 | 24.71 | 383322 | 23.48 | 469239 |
| 7    | 1440     | NT1423022807.D | SLB0374-CAL2 | 1  | 8.22           | 126289 | 10.67 | 445088 | 14.25 | 268255 | 17.25 | 528369 | 22.37 | 429353 | 24.72 | 418883 | 23.48 | 491860 |
| 8    | 1516     | NT1423022808.D | SLB0374-CAL1 | 1  | 8.21           | 113699 | 10.67 | 400412 | 14.25 | 237606 | 17.25 | 464964 | 22.36 | 366875 | 24.72 | 354894 | 23.48 | 382256 |
| 9    | 1552     | NT1423022809.D | SLB0375-CAL2 | 1  | 8.21           | 121492 | 10.67 | 422553 | 14.25 | 248357 | 17.25 | 490951 | 22.36 | 403914 | 24.71 | 390908 | 23.48 | 418382 |
| 10   | 1628     | NT1423022810.D | SLB0375-CAL1 | 1  | 8.21           | 114265 | 10.66 | 405698 | 14.25 | 238126 | 17.25 | 464234 | 22.36 | 368456 | 24.72 | 361000 | 23.48 | 374202 |
| 11   | 1704     | NT1423022811.D | SLB0374-ICB1 | 1  | 8.21           | 117167 | 10.66 | 407027 | 14.24 | 239853 | 17.25 | 473405 | 22.36 | 364221 | 24.71 | 358535 | 23.48 | 366453 |
| 12   | 1741     | NT1423022812.D | SLB0374-SCV1 | 1  | 8.21           | 105595 | 10.67 | 379346 | 14.25 | 230482 | 17.25 | 458109 | 22.37 | 351284 | 24.71 | 336637 | 23.48 | 422614 |
| 13   | 0850     | NT1423022813.D | SLB0374-ICV1 | 1  | 8.19           | 130493 | 10.64 | 468517 | 14.23 | 287099 | 17.24 | 562063 | 22.35 | 437959 | 24.70 | 412943 | 23.47 | 562397 |
| 14   | 0926     | NT1423022814.D | SLB0374-ICV2 | 1  | 8.19           | 121368 | 10.64 | 435125 | 14.22 | 258208 | 17.23 | 509895 | 22.35 | 402908 | 24.69 | 386677 | 23.46 | 463321 |
| 15   | 1002     | NT1423022815.D | SLB0374-IBL1 | 1  | 8.19           | 112285 | 10.64 | 401456 | 14.23 | 248381 | 17.23 | 490071 | 22.35 | 382855 | 24.70 | 358877 | 23.47 | 475658 |
| 16   | 1039     | NT1423022816.D | 23A0134-12   | 1  | 8.19           | 163816 | 10.64 | 584308 | 14.23 | 345158 | 17.24 | 639221 | 22.36 | 496464 | 24.71 | 637348 | 23.48 | 751371 |
| 17   | 1115     | NT1423022817.D | 23A0134-13   | 1  | 8.19           | 145235 | 10.64 | 527217 | 14.23 | 301577 | 17.25 | 565289 | 22.39 | 445240 | 24.77 | 393072 | 23.50 | 531926 |
| 18   | 1151     | NT1423022818.D | BLA0410-MS1  | 1  | 8.19           | 122256 | 10.65 | 431740 | 14.24 | 256989 | 17.25 | 480982 | 22.41 | 379908 | 24.78 | 288883 | 23.51 | 422602 |
| 19   | 1227     | NT1423022819.D | BLA0410-MSD1 | 1  | 8.19           | 115160 | 10.65 | 407447 | 14.24 | 243692 | 17.25 | 448530 | 22.40 | 375694 | 24.78 | 292934 | 23.51 | 436267 |
| 20   | 1303     | NT1423022820.D | 23A0134-15   | 1  | 8.19           | 123533 | 10.65 | 442879 | 14.23 | 256586 | 17.25 | 473488 | 22.38 | 423862 | 24.74 | 428289 | 23.48 | 605691 |



## INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230228.b

| Time | Filename | LabID          | ClientId     | DF |      |               |               |               |               |               |               |        |  |  |  |
|------|----------|----------------|--------------|----|------|---------------|---------------|---------------|---------------|---------------|---------------|--------|--|--|--|
| 42   | 0215     | NT1423022842.D | 23A0179-11   | 1  | 8.20 | 111897  10.65 | 409099  14.24 | 236278  17.25 | 442785  22.38 | 383564  24.74 | 309313  23.48 | 565245 |  |  |  |
| 43   | 0251     | NT1423022843.D | 23A0179-12   | 1  | 8.20 | 109867  10.65 | 405952  14.24 | 230944  17.25 | 437765  22.38 | 374619  24.74 | 314304  23.48 | 548577 |  |  |  |
| 44   | 0327     | NT1423022844.D | 23A0180-01   | 1  | 8.20 | 111445  10.66 | 403002  14.24 | 231049  17.25 | 436923  22.39 | 383047  24.75 | 281715  23.49 | 532671 |  |  |  |
| 45   | 0403     | NT1423022845.D | 23A0180-02   | 1  | 8.20 | 110517  10.66 | 404153  14.24 | 231072  17.25 | 432633  22.39 | 374504  24.75 | 278246  23.49 | 536189 |  |  |  |
| 46   | 0439     | NT1423022846.D | 23A0180-03   | 1  | 8.20 | 121220  10.66 | 444463  14.25 | 254449  17.26 | 481686  22.38 | 413576  24.75 | 299632  23.49 | 605703 |  |  |  |
| 47   | 0515     | NT1423022847.D | 23A0180-04   | 1  | 8.21 | 108875  10.66 | 401293  14.25 | 227418  17.26 | 428058  22.39 | 375926  24.75 | 255600  23.49 | 545489 |  |  |  |
| 48   | 0552     | NT1423022848.D | SLB0374-ICV4 | 1  | 8.21 | 116519  10.67 | 429090  14.25 | 250637  17.25 | 458117  22.38 | 393468  24.73 | 283320  23.48 | 572636 |  |  |  |
| 49   | 0628     | NT1423022849.D | SLB0374-CCV6 | 1  | 8.21 | 100165  10.66 | 356839  14.25 | 204998  17.25 | 370142  22.38 | 313377  24.72 | 217355  23.48 | 453092 |  |  |  |
| 50   | 0704     | NT1423022850.D | SLB0374-LCV5 | 1  | 8.21 | 115459  10.66 | 409877  14.25 | 230328  17.25 | 417754  22.38 | 352830  24.73 | 239484  23.48 | 499736 |  |  |  |
| 51   | 0740     | NT1423022851.D | SLB0374-LCV6 | 1  | 8.21 | 111416  10.66 | 403388  14.25 | 226130  17.25 | 411120  22.37 | 340331  24.72 | 240961  23.48 | 479730 |  |  |  |
| 52   | 0816     | NT1423022852.D | 23A0179-09   | 10 | 8.21 | 107119  10.66 | 388462  14.24 | 221798  17.25 | 408625  22.37 | 328051  24.73 | 258014  23.48 | 495620 |  |  |  |
| 53   | 0853     | NT1423022853.D | 23A0179-10   | 10 | 8.21 | 108921  10.66 | 388732  14.24 | 222640  17.25 | 407717  22.38 | 337194  24.73 | 247492  23.48 | 490020 |  |  |  |
| 54   | 0929     | NT1423022854.D | BLA0557-MS1  | 10 | 8.20 | 108236  10.66 | 386639  14.24 | 219298  17.25 | 399312  22.37 | 325344  24.72 | 222525  23.48 | 476401 |  |  |  |
| 55   | 1005     | NT1423022855.D | BLA0557-MSD1 | 10 | 8.20 | 107306  10.66 | 387922  14.24 | 222307  17.25 | 411647  22.37 | 322410  24.72 | 228505  23.48 | 482430 |  |  |  |
| 56   | 1041     | NT1423022856.D | SLB0374-CCV7 | 1  | 8.21 | 125192  10.66 | 458907  14.25 | 271560  17.25 | 498585  22.38 | 404214  24.72 | 284657  23.48 | 582020 |  |  |  |



MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230228.b

Instrument: nt14.i Date: 28-FEB-2023

| Time | Filename       | LabID        | DF | Manually Integrated Compounds  |
|------|----------------|--------------|----|--|
| 1126 | NT1423022801.D | SLB0374-TUN1 | 1  | NO MANUAL INTEGRATION  |
| 1139 | NT1423022802.D | SLB0374-CAL7 | 1  | 2,2'-oxybis(1-Chloropropane), Isophorone, Benzoic acid,  |
| 1215 | NT1423022803.D | SLB0374-CAL6 | 1  | Benzoic acid,  |
| 1251 | NT1423022804.D | SLB0374-CAL5 | 1  | NO MANUAL INTEGRATION  |
| 1328 | NT1423022805.D | SLB0374-CAL4 | 1  | Benzoic acid,  |
| 1404 | NT1423022806.D | SLB0374-CAL3 | 1  | Benzoic acid, 2,4-Dinitrophenol, 4-Nitrophenol, Pentachlorophenol,   |
| 1440 | NT1423022807.D | SLB0374-CAL2 | 1  | Benzyl alcohol, 2,4-Dinitrophenol, 4-Nitrophenol, 4,6-Dinitro-2-methylphenol, Pentachlorophenol, Pyridine, 2-Fluorophenol,   |
| 1516 | NT1423022808.D | SLB0374-CAL1 | 1  | Phenol, Bis(2-Chloroethyl)ether, 2-Chlorophenol, Benzyl alcohol, N-Nitroso-di-n-propylamine, 2-Nitrophenol, 4-Chloroaniline, 2,4,5-Trichlorophenol, 3-Nitroaniline, 4-Nitroaniline, 4,6-Dinitro-2-methylphenol, N- 2,3,4,6-Tetrachlorophenol, 2-Fluorophenol, 2-Chlorophenol-d4, 2,4,6-Tribromophenol, |
| 1552 | NT1423022809.D | SLB0375-CAL2 | 1  | NO MANUAL INTEGRATION  |
| 1628 | NT1423022810.D | SLB0375-CAL1 | 1  | NO MANUAL INTEGRATION  |
| 1704 | NT1423022811.D | SLB0374-ICB1 | 1  | NO MANUAL INTEGRATION  |
| 1741 | NT1423022812.D | SLB0374-SCV1 | 1  | Benzoic acid, Pentachlorophenol,   |
| 0850 | NT1423022813.D | SLB0374-ICV1 | 1  | NO MANUAL INTEGRATION  |
| 0926 | NT1423022814.D | SLB0374-ICV2 | 1  | NO MANUAL INTEGRATION  |
| 1002 | NT1423022815.D | SLB0374-IBL1 | 1  | NO MANUAL INTEGRATION  |
| 1039 | NT1423022816.D | 23A0134-12   | 1  | Benzoic acid, bis(2-Ethylhexyl)phthalate, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene,  |
| 1115 | NT1423022817.D | 23A0134-13   | 1  | Benzoic acid, Di-n-octylphthalate, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene,   |

Instrument: nt14.i Date: 01-MAR-2023

| Time | Filename       | LabID            | DF | Manually Integrated Compounds   |
|------|----------------|------------------|----|---|
| 1151 | NT1423022818.D | BLA0410-MS1      | 1  | 3,3'-Dichlorobenzidine, Di-n-octylphthalate,  |
| 1227 | NT1423022819.D | BLA0410-MSD1     | 1  | Di-n-octylphthalate,  |
| 1303 | NT1423022820.D | 23A0134-15       | 1  | 2,4-Dimethylphenol, 4-Chlorophenyl-phenylether, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,   |
| 1339 | NT1423022821.D | SLB0374-ICV2     | 1  | 2,2'-oxybis(1-Chloropropane),   |
| 1415 | NT1423022822.D | SLB0374-CCV2     | 1  | NO MANUAL INTEGRATION   |
| 1451 | NT1423022823.D | SLB0374-LCV1     | 1  | Phenol, Benzyl alcohol, 2,2'-oxybis(1-Chloropropane), 2-Nitrophenol, 4-Nitroaniline, 4,6-Dinitro-2-methylpheno<br>Pentachlorophenol, Pyridine, 2,3,4,6-Tetrachlorophenol, |
| 1527 | NT1423022824.D | SLB0374-LCV2-sim | 1  | NO MANUAL INTEGRATION   |
| 1604 | NT1423022825.D | SLB0374-LCV2     | 1  | 2,2'-oxybis(1-Chloropropane), Benzoic acid, 3-Nitroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, Pentachloropheno  |
| 1640 | NT1423022826.D | BLA0557-BLK1     | 1  | NO MANUAL INTEGRATION   |
| 1716 | NT1423022827.D | BLA0557-BS1      | 1  | NO MANUAL INTEGRATION   |
| 1752 | NT1423022828.D | BLA0557-BSD1     | 1  | NO MANUAL INTEGRATION   |
| 1828 | NT1423022829.D | BLA0557-SRM1     | 1  | Benzoic acid,   |
| 1904 | NT1423022830.D | 23A0179-01       | 1  | 1,4-Dichlorobenzene, Benzyl alcohol, 2-Methylphenol, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,  |
| 1940 | NT1423022831.D | 23A0179-02       | 1  | Benzoic acid, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,   |
| 2016 | NT1423022832.D | 23A0179-03       | 1  | Benzyl alcohol, Benzoic acid, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,   |
| 2052 | NT1423022833.D | 23A0179-04       | 1  | Benzoic acid, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,   |
| 2128 | NT1423022834.D | 23A0179-05       | 1  | Benzoic acid, Total Benzofluoranthenes,   |
| 2204 | NT1423022835.D | 23A0179-06       | 1  | Benzoic acid, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,   |

Instrument: nt14.i Date: 01-MAR-2023

| Time | Filename       | LabID        | DF | Manually Integrated Compounds  |
|------|----------------|--------------|----|--|
| 2240 | NT1423022836.D | SLB0374-ICV3 | 1  | NO MANUAL INTEGRATION  |
| 2316 | NT1423022837.D | SLB0374-CCV4 | 1  | NO MANUAL INTEGRATION  |
| 2352 | NT1423022838.D | SLB0374-LCV3 | 1  | Phenol, Benzyl alcohol, 2-Nitrophenol, 2,4-Dichlorophenol, Benzoic acid, 4-Chloroaniline, 4-Chloro-3-methylphenol, 2,4,5-Trichlorophenol, 3-Nitroaniline, 4-Nitrophenol, 4-Nitroaniline, 4,6-Di-Pentachlorophenol, Benzidine, Pyridine, 2,3,4,6-Tetrachlorophenol, 2-Fluorophenol, Phenol-d5, 2,4, |
| 0028 | NT1423022839.D | SLB0374-LCV4 | 1  | Benzyl alcohol, Benzoic acid, 2,4-Dinitrophenol, 4-Nitrophenol, Pentachlorophenol,   |
| 0103 | NT1423022840.D | 23A0179-07   | 1  | 2-Methylphenol, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,  |
| 0139 | NT1423022841.D | 23A0179-08   | 1  | Benzoic acid, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,  |
| 0215 | NT1423022842.D | 23A0179-11   | 1  | Benzyl alcohol, 2-Methylphenol, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,  |
| 0251 | NT1423022843.D | 23A0179-12   | 1  | Benzyl alcohol, Benzoic acid, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,  |
| 0327 | NT1423022844.D | 23A0180-01   | 1  | Benzoic acid, Dibenzo(a,h)anthracene,  |
| 0403 | NT1423022845.D | 23A0180-02   | 1  | Benzoic acid, Dibenzo(a,h)anthracene,  |
| 0439 | NT1423022846.D | 23A0180-03   | 1  | Benzoic acid, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Total Benzofluoranthenes,  |
| 0515 | NT1423022847.D | 23A0180-04   | 1  | Benzoic acid, Dibenzo(a,h)anthracene,  |
| 0552 | NT1423022848.D | SLB0374-ICV4 | 1  | 2,2'-oxybis(1-Chloropropane),  |
| 0628 | NT1423022849.D | SLB0374-CCV6 | 1  | NO MANUAL INTEGRATION  |
| 0704 | NT1423022850.D | SLB0374-LCV5 | 1  | Benzyl alcohol, 2,4-Dichlorophenol, 4-Chloroaniline, 2,4,5-Trichlorophenol, 3-Nitroaniline, 4-Nitroaniline, 4,6-Dinitro-2-methylphenol, Pentachlorophenol, N-Nitrosodimethylamine, Benzidine, Pyridine,  |
| 0740 | NT1423022851.D | SLB0374-LCV6 | 1  | Benzyl alcohol, 2,2'-oxybis(1-Chloropropane), 2-Nitrophenol, Benzoic acid, Hexachlorocyclopentadiene, 2,4-Dini-4-Nitrophenol, Pentachlorophenol, 2,3,4,6-Tetrachlorophenol,  |
| 0816 | NT1423022852.D | 23A0179-09   | 10 | Benzo(k)fluoranthene,  |
| 0853 | NT1423022853.D | 23A0179-10   | 10 | NO MANUAL INTEGRATION  |

Instrument: nt14.i Date: 02-MAR-2023

| Time | Filename       | LabID        | DF | Manually Integrated Compounds   |
|------|----------------|--------------|----|---|
| 0929 | NT1423022854.D | BLA0557-MS1  | 10 | Benzyl alcohol, Benzoic acid, 4-Chloroaniline, 2,4-Dinitrophenol,                                   |
| 1005 | NT1423022855.D | BLA0557-MSD1 | 10 | Benzyl alcohol, Benzoic acid, 4-Chloroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, Pentachlorophenol, |
| 1041 | NT1423022856.D | SLB0374-CCV7 | 1  | 2,2'-oxybis(1-Chloropropane), Benzoic acid,   |

Security Status Report

Date: 14-Mar-2023 09:37

|                |             |      |             |       |
|----------------|-------------|------|-------------|-------|
| NT1423022801.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022802.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022803.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022804.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022805.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022806.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022807.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022808.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022809.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022810.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022811.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022812.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022813.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022814.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022815.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022816.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022817.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022818.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022819.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022820.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022821.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
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| NT1423022824.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022825.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022826.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022827.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022828.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022829.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022830.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
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| NT1423022832.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022833.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
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| NT1423022839.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
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| NT1423022841.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022842.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022843.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022844.D | Data Locked | van, | 14-Mar-2023 | 09:37 |

|                |             |                        |
|----------------|-------------|------------------------|
| NT1423022845.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022846.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022847.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022848.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022849.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022850.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022851.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022852.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022853.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022854.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022855.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022856.D | Data Locked | van, 14-Mar-2023 09:37 |



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLC0228

Instrument: NT10

Calibration: GC00046

| Sample Name       | Lab Sample ID | Lab File ID  | Matrix | Analysis Date/Time |
|-------------------|---------------|--------------|--------|--------------------|
| MS Tune           | SLC0228-TUN1  | NT10031501.D | NA     | 03/15/23 20:19     |
| CAL 20            | SLC0228-CAL7  | NT10031502.D | NA     | 03/15/23 20:34     |
| CAL 10            | SLC0228-CAL6  | NT10031503.D | NA     | 03/15/23 21:12     |
| CAL 5             | SLC0228-CAL5  | NT10031504.D | NA     | 03/15/23 21:50     |
| CAL 2.5           | SLC0228-CAL4  | NT10031505.D | NA     | 03/15/23 22:28     |
| CAL 1.0           | SLC0228-CAL3  | NT10031506.D | NA     | 03/15/23 23:06     |
| CAL 0.5           | SLC0228-CAL2  | NT10031507.D | NA     | 03/15/23 23:44     |
| CAL 0.2           | SLC0228-CAL1  | NT10031508.D | NA     | 03/16/23 00:22     |
| SCV 5.0           | SLC0228-SCV1  | NT10031511.D | NA     | 03/16/23 02:16     |
| Initial Cal Blank | SLC0228-ICB1  | NT10031512.D | NA     | 03/16/23 02:54     |



ANALYSIS SEQUENCE

SLC0228

Instrument ID: NT10      GCMS Description: Agilent 5975/MS http://bi  
Calibration ID: GC00046      GCMS Column ID: L002830  
MS EM Level: 1271 EV

| Lab Number   | Sample Name       | Analysis | Container | Order | STD ID  | ISTD ID | Analyzed         | File ID      | Analyst | Comments |
|--------------|-------------------|----------|-----------|-------|---------|---------|------------------|--------------|---------|----------|
| SLC0228-TUN1 | MS Tune           | QC       |           | 1     | K004775 |         | 03/15/2023 20:19 | NT10031501.D | JGR     |          |
| SLC0228-CAL7 | CAL 20            | QC       |           | 2     | K011111 | K010831 | 03/15/2023 20:34 | NT10031502.D | VTS     |          |
| SLC0228-CAL6 | CAL 10            | QC       |           | 3     | K011110 | K010831 | 03/15/2023 21:12 | NT10031503.D | VTS     |          |
| SLC0228-CAL5 | CAL 5             | QC       |           | 4     | K011109 | K010831 | 03/15/2023 21:50 | NT10031504.D | VTS     |          |
| SLC0228-CAL4 | CAL 2.5           | QC       |           | 5     | K011108 | K010831 | 03/15/2023 22:28 | NT10031505.D | VTS     |          |
| SLC0228-CAL3 | CAL 1.0           | QC       |           | 6     | K011107 | K010831 | 03/15/2023 23:06 | NT10031506.D | VTS     |          |
| SLC0228-CAL2 | CAL 0.5           | QC       |           | 7     | K011106 | K010831 | 03/15/2023 23:44 | NT10031507.D | VTS     |          |
| SLC0228-CAL1 | CAL 0.2           | QC       |           | 8     | K011105 | K010831 | 03/16/2023 00:22 | NT10031508.D | VTS     |          |
| SLC0228-SCV1 | SCV 5.0           | QC       |           | 9     | L002833 | K010831 | 03/16/2023 02:16 | NT10031511.D | VTS     |          |
| SLC0228-ICB1 | Initial Cal Blank | QC       |           | 10    | K005156 | K010831 | 03/16/2023 02:54 | NT10031512.D | VTS     |          |



## INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b

| Time | Filename | LabID        | ClientId     | DF |                |        |       |        |       |        |       |        |       |        |       |        |       |        |
|------|----------|--------------|--------------|----|----------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 1    | 2019     | NT10031501.D | SLC0228-TUN1 | 1  | NO ISTDs FOUND |        |       |        |       |        |       |        |       |        |       |        |       |        |
| 2    | 2034     | NT10031502.D | SLC0228-CAL7 | 1  | 9.30           | 177375 | 11.78 | 659656 | 15.38 | 352987 | 18.42 | 587447 | 23.46 | 356463 | 26.19 | 404994 | 24.49 | 617041 |
| 3    | 2112     | NT10031503.D | SLC0228-CAL6 | 1  | 9.30           | 174984 | 11.78 | 633941 | 15.38 | 344087 | 18.42 | 605930 | 23.46 | 437116 | 26.18 | 463440 | 24.48 | 674085 |
| 4    | 2150     | NT10031504.D | SLC0228-CAL5 | 1  | 9.30           | 171542 | 11.78 | 624466 | 15.38 | 337226 | 18.42 | 572849 | 23.45 | 347068 | 26.18 | 421549 | 24.48 | 500317 |
| 5    | 2228     | NT10031505.D | SLC0228-CAL4 | 1  | 9.30           | 158570 | 11.78 | 582079 | 15.38 | 306729 | 18.42 | 522311 | 23.45 | 356282 | 26.18 | 420725 | 24.48 | 471925 |
| 6    | 2306     | NT10031506.D | SLC0228-CAL3 | 1  | 9.29           | 172257 | 11.78 | 625894 | 15.38 | 330997 | 18.42 | 568685 | 23.45 | 426836 | 26.18 | 489106 | 24.48 | 555437 |
| 7    | 2344     | NT10031507.D | SLC0228-CAL2 | 1  | 9.30           | 176328 | 11.78 | 638835 | 15.38 | 333617 | 18.42 | 594262 | 23.45 | 428263 | 26.18 | 479116 | 24.48 | 530893 |
| 8    | 0022     | NT10031508.D | SLC0228-CAL1 | 1  | 9.29           | 173382 | 11.77 | 622719 | 15.38 | 323444 | 18.42 | 582036 | 23.45 | 443504 | 26.18 | 490725 | 24.48 | 540769 |
| 9    | 0100     | NT10031509.D | SEQ-SIM2     | 1  | 9.29           | 175576 | 11.78 | 624440 | 15.38 | 329518 | 18.42 | 581173 | 23.45 | 424576 | 26.18 | 472151 | 24.48 | 491201 |
| 10   | 0138     | NT10031510.D | SEQ-SIM1     | 1  | 9.30           | 172228 | 11.77 | 609518 | 15.38 | 313933 | 18.42 | 564567 | 23.45 | 413842 | 26.18 | 461161 | 24.48 | 469814 |
| 11   | 0216     | NT10031511.D | SLC0228-SCV1 | 1  | 9.30           | 154809 | 11.78 | 570882 | 15.38 | 303490 | 18.42 | 533431 | 23.46 | 435381 | 26.19 | 494648 | 24.49 | 660827 |
| 12   | 0254     | NT10031512.D | SLC0228-ICB1 | 1  | 9.30           | 173115 | 11.78 | 625865 | 15.38 | 328712 | 18.42 | 592693 | 23.45 | 442208 | 26.18 | 499804 | 24.48 | 526309 |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b

Instrument: nt10.i Date: 15-MAR-2023

| Time | Filename     | LabID        | DF | Manually Integrated Compounds                         |
|------|--------------|--------------|----|---|
| 2019 | NT10031501.D | SLC0228-TUN1 | 1  | NO MANUAL INTEGRATION                                 |
| 2034 | NT10031502.D | SLC0228-CAL7 | 1  | Benzoic acid,   |
| 2112 | NT10031503.D | SLC0228-CAL6 | 1  | 2,2'-oxybis(1-Chloropropane),                         |
| 2150 | NT10031504.D | SLC0228-CAL5 | 1  | 2,2'-oxybis(1-Chloropropane),                         |
| 2228 | NT10031505.D | SLC0228-CAL4 | 1  | 2,2'-oxybis(1-Chloropropane),                         |
| 2306 | NT10031506.D | SLC0228-CAL3 | 1  | 2,2'-oxybis(1-Chloropropane),                         |
| 2344 | NT10031507.D | SLC0228-CAL2 | 1  | 2,2'-oxybis(1-Chloropropane), Benzoic acid,           |
| 0022 | NT10031508.D | SLC0228-CAL1 | 1  | 2,2'-oxybis(1-Chloropropane), 1,2-Dichlorobenzene-d4, |
| 0100 | NT10031509.D | SEQ-SIM2     | 1  | NO MANUAL INTEGRATION                                 |
| 0138 | NT10031510.D | SEQ-SIM1     | 1  | NO MANUAL INTEGRATION                                 |
| 0216 | NT10031511.D | SLC0228-SCV1 | 1  | NO MANUAL INTEGRATION                                 |
| 0254 | NT10031512.D | SLC0228-ICB1 | 1  | NO MANUAL INTEGRATION                                 |

Security Status Report

Date: 16-Mar-2023 13:06

|              |             |                        |
|--------------|-------------|------------------------|
| NT10031501.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031502.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031503.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031504.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031505.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031506.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031507.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031508.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031509.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031510.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031511.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031512.D | Data Locked | van, 16-Mar-2023 13:06 |



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLC0397

Instrument: NT10

Calibration: GC00046

| Sample Name       | Lab Sample ID | Lab File ID    | Matrix | Analysis Date/Time |
|-------------------|---------------|----------------|--------|--------------------|
| MS Tune           | SLC0397-TUN1  | NT1003222301.D | NA     | 03/22/23 17:27     |
| ABN 5             | SLC0397-ICV1  | NT1003222302.D | NA     | 03/22/23 17:42     |
| ABN 0.2           | SLC0397-LCV1  | NT1003222304.D | NA     | 03/22/23 18:59     |
| Blank             | BLC0442-BLK1  | NT1003222306.D | Solid  | 03/22/23 20:16     |
| LCS               | BLC0442-BS1   | NT1003222307.D | Solid  | 03/22/23 20:54     |
| LCS Dup           | BLC0442-BSD1  | NT1003222308.D | Solid  | 03/22/23 21:32     |
| Reference         | BLC0442-SRM1  | NT1003222309.D | Solid  | 03/22/23 22:10     |
| LDW23-SS1277      | 23A0179-01RE1 | NT1003222310.D | Solid  | 03/22/23 22:49     |
| LDW23-SS1271      | 23A0179-02RE1 | NT1003222311.D | Solid  | 03/22/23 23:27     |
| LDW23-SS1266      | 23A0179-03RE1 | NT1003222312.D | Solid  | 03/23/23 00:05     |
| LDW23-SS1248      | 23A0179-04RE1 | NT1003222313.D | Solid  | 03/23/23 00:43     |
| LDW23-SS1239      | 23A0179-05RE1 | NT1003222314.D | Solid  | 03/23/23 01:21     |
| LDW23-SS1213      | 23A0179-06RE1 | NT1003222315.D | Solid  | 03/23/23 01:59     |
| LDW23-SS1200      | 23A0179-07RE1 | NT1003222316.D | Solid  | 03/23/23 02:37     |
| ABN 5             | SLC0397-ICV2  | NT1003222317.D | NA     | 03/23/23 03:15     |
| ABN 0.2           | SLC0397-LCV2  | NT1003222319.D | NA     | 03/23/23 04:30     |
| Blank             | BLC0442-BLK3  | NT1003222321.D | Solid  | 03/23/23 05:46     |
| LDW23-SS1200      | BLC0442-MS1   | NT1003222322.D | Solid  | 03/23/23 06:24     |
| LDW23-SS1200      | BLC0442-MSD1  | NT1003222323.D | Solid  | 03/23/23 07:01     |
| LDW23-SS1178      | 23A0179-08RE1 | NT1003222324.D | Solid  | 03/23/23 07:39     |
| LDW23-SS1171      | 23A0179-09RE1 | NT1003222325.D | Solid  | 03/23/23 08:17     |
| LDW23-SS1112      | 23A0179-10RE1 | NT1003222326.D | Solid  | 03/23/23 08:55     |
| LDW23-SS1039      | 23A0179-11RE1 | NT1003222327.D | Solid  | 03/23/23 09:33     |
| LDW23-SS1007      | 23A0179-12RE1 | NT1003222328.D | Solid  | 03/23/23 10:11     |
| ZZZZZ             | 23A0180-01RE1 | NT1003222329.D | Solid  | 03/23/23 10:49     |
| ZZZZZ             | 23A0180-02RE1 | NT1003222330.D | Solid  | 03/23/23 11:27     |
| ZZZZZ             | 23A0180-03RE1 | NT1003222331.D | Solid  | 03/23/23 12:05     |
| ZZZZZ             | 23A0180-04RE1 | NT1003222332.D | Solid  | 03/23/23 12:44     |
| Calibration Check | SLC0397-CCV1  | NT1003222333.D | NA     | 03/23/23 13:22     |



ANALYSIS SEQUENCE

SLC0397

Instrument ID: NT10      GCMS Description: Agilent 5975/MS http://bi  
Calibration ID: GC00046      GCMS Column ID: L002830  
MS EM Level: 1271 EV

| Lab Number    | Sample Name      | Analysis                   | Container | Order | STD ID  | ISTD ID | Analyzed         | File ID        | Analyst | Comments                           |
|---------------|------------------|----------------------------|-----------|-------|---------|---------|------------------|----------------|---------|------------------------------------|
| SLC0397-TUN1  | MS Tune          | QC                         |           | 1     | K004775 |         | 03/22/2023 17:27 | NT1003222301.D | JGR     |                                    |
| SLC0397-ICV1  | ABN 5            | QC                         |           | 2     | K011109 | K010831 | 03/22/2023 17:42 | NT1003222302.D | VTS     |                                    |
| SLC0397-LCV1  | ABN 0.2          | QC                         |           | 3     | K011105 | K010831 | 03/22/2023 18:59 | NT1003222304.D | VTS     |                                    |
| BLC0442-BLK1  | Blank            | QC                         |           | 4     |         | K010831 | 03/22/2023 20:16 | NT1003222306.D | VTS     |                                    |
| BLC0442-BS1   | LCS              | QC                         |           | 5     |         | K010831 | 03/22/2023 20:54 | NT1003222307.D | VTS     |                                    |
| BLC0442-BSD1  | LCS Dup          | QC                         |           | 6     |         | K010831 | 03/22/2023 21:32 | NT1003222308.D | VTS     |                                    |
| BLC0442-SRM1  | Reference        | QC                         |           | 7     |         | K010831 | 03/22/2023 22:10 | NT1003222309.D | VTS     |                                    |
| 23A0179-01RE1 | LDW23-SS1277     | 20ug/kg solid or 0.2ug/L l | A 05      | 8     |         | K010831 | 03/22/2023 22:49 | NT1003222310.D | VTS     | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-02RE1 | LDW23-SS1271     | 20ug/kg solid or 0.2ug/L l | A 05      | 9     |         | K010831 | 03/22/2023 23:27 | NT1003222311.D | VTS     | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-03RE1 | LDW23-SS1266     | 20ug/kg solid or 0.2ug/L l | A 05      | 10    |         | K010831 | 03/23/2023 00:05 | NT1003222312.D | VTS     | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-04RE1 | LDW23-SS1248     | 20ug/kg solid or 0.2ug/L l | A 05      | 11    |         | K010831 | 03/23/2023 00:43 | NT1003222313.D | VTS     | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-05RE1 | LDW23-SS1239     | 20ug/kg solid or 0.2ug/L l | A 05      | 12    |         | K010831 | 03/23/2023 01:21 | NT1003222314.D | VTS     | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-06RE1 | LDW23-SS1213     | 20ug/kg solid or 0.2ug/L l | A 05      | 13    |         | K010831 | 03/23/2023 01:59 | NT1003222315.D | VTS     | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-07RE1 | LDW23-SS1200     | 20ug/kg solid or 0.2ug/L l | A 05      | 14    |         | K010831 | 03/23/2023 02:37 | NT1003222316.D | VTS     | From BLA0557 by CTO on 16-Mar-2023 |
| SLC0397-ICV2  | ABN 5            | QC                         |           | 15    | K011109 | K010831 | 03/23/2023 03:15 | NT1003222317.D | VTS     |                                    |
| SLC0397-LCV2  | ABN 0.2          | QC                         |           | 16    | K011105 | K010831 | 03/23/2023 04:30 | NT1003222319.D | VTS     |                                    |
| BLC0442-BLK3  | Blank            | QC                         |           | 17    |         | K010831 | 03/23/2023 05:46 | NT1003222321.D | VTS     |                                    |
| BLC0442-MS1   | Matrix Spike     | QC                         |           | 18    |         | K010831 | 03/23/2023 06:24 | NT1003222322.D | VTS     |                                    |
| BLC0442-MSD1  | Matrix Spike Dup | QC                         |           | 19    |         | K010831 | 03/23/2023 07:01 | NT1003222323.D | VTS     |                                    |
| 23A0179-08RE1 | LDW23-SS1178     | 20ug/kg solid or 0.2ug/L l | A 05      | 20    |         | K010831 | 03/23/2023 07:39 | NT1003222324.D | VTS     | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-09RE1 | LDW23-SS1171     | 20ug/kg solid or 0.2ug/L l | A 05      | 21    |         | K010831 | 03/23/2023 08:17 | NT1003222325.D | VTS     | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-10RE1 | LDW23-SS1112     | 20ug/kg solid or 0.2ug/L l | A 05      | 22    |         | K010831 | 03/23/2023 08:55 | NT1003222326.D | VTS     | From BLA0557 by CTO on 16-Mar-2023 |



ANALYSIS SEQUENCE

SLC0397

Instrument ID: NT10      GCMS Description: Agilent 5975/MS http://bi  
Calibration ID: GC00046      GCMS Column ID: L002830  
MS EM Level: 1271 EV

| Lab Number    | Sample Name       | Analysis                   | Container | Order | STD ID  | ISTD ID | Analyzed         | File ID        | Analyst | Comments                           |
|---------------|-------------------|----------------------------|-----------|-------|---------|---------|------------------|----------------|---------|------------------------------------|
| 23A0179-11RE1 | LDW23-SS1039      | 20ug/kg solid or 0.2ug/L l | A 05      | 23    |         | K010831 | 03/23/2023 09:33 | NT1003222327.D | VTS     | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-12RE1 | LDW23-SS1007      | 20ug/kg solid or 0.2ug/L l | A 05      | 24    |         | K010831 | 03/23/2023 10:11 | NT1003222328.D | VTS     | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0180-01RE1 | LDW23-SC1164      | 20ug/kg solid or 0.2ug/L l | A 05      | 25    |         | K010831 | 03/23/2023 10:49 | NT1003222329.D | VTS     | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0180-02RE1 | LDW23-SC1164-FD   | 20ug/kg solid or 0.2ug/L l | A 05      | 26    |         | K010831 | 03/23/2023 11:27 | NT1003222330.D | VTS     | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0180-03RE1 | LDW23-SC1158      | 20ug/kg solid or 0.2ug/L l | A 05      | 27    |         | K010831 | 03/23/2023 12:05 | NT1003222331.D | VTS     | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0180-04RE1 | LDW23-SC1151      | 20ug/kg solid or 0.2ug/L l | A 05      | 28    |         | K010831 | 03/23/2023 12:44 | NT1003222332.D | VTS     | From BLA0557 by CTO on 16-Mar-2023 |
| SLC0397-CCV1  | Calibration Check | QC                         |           | 29    | K011109 | K010831 | 03/23/2023 13:22 | NT1003222333.D | VTS     |                                    |

## INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b

| Time | Filename | LabID          | ClientId      | DF |                |        |       |        |       |        |       |        |       |        |       |        |       |         |
|------|----------|----------------|---------------|----|----------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|---------|
| 1    | 1727     | NT1003222301.D | SLC0397-TUN1  | 1  | NO ISTDs FOUND |        |       |        |       |        |       |        |       |        |       |        |       |         |
| 2    | 1742     | NT1003222302.D | SLC0397-ICV1  | 1  | 9.08           | 122478 | 11.57 | 459261 | 15.19 | 264106 | 18.25 | 503255 | 23.35 | 437735 | 26.02 | 499049 | 24.41 | 700191  |
| 3    | 1820     | NT1003222303.D | SEQ-ICVSIM    | 1  | 9.09           | 122467 | 11.57 | 445701 | 15.19 | 253074 | 18.25 | 468010 | 23.35 | 405933 | 26.03 | 462479 | 24.41 | 603265  |
| 4    | 1859     | NT1003222304.D | SLC0397-LCV1  | 1  | 9.09           | 142022 | 11.57 | 504872 | 15.19 | 275869 | 18.25 | 499862 | 23.35 | 433161 | 26.02 | 494952 | 24.41 | 617649  |
| 5    | 1937     | NT1003222305.D | SEQ-LCV100    | 1  | 9.08           | 130399 | 11.57 | 466171 | 15.19 | 252562 | 18.25 | 455086 | 23.34 | 381080 | 26.02 | 438111 | 24.41 | 543177  |
| 6    | 2016     | NT1003222306.D | BLC0442-BLK1  | 1  | 9.08           | 166416 | 11.57 | 591408 | 15.19 | 325327 | 18.25 | 589824 | 23.34 | 493010 | 26.02 | 544575 | 24.41 | 751292  |
| 7    | 2054     | NT1003222307.D | BLC0442-BS1   | 1  | 9.08           | 154744 | 11.57 | 572840 | 15.19 | 327050 | 18.25 | 608606 | 23.35 | 516845 | 26.02 | 580418 | 24.41 | 860923  |
| 8    | 2132     | NT1003222308.D | BLC0442-BSD1  | 1  | 9.08           | 153308 | 11.57 | 557553 | 15.19 | 313522 | 18.25 | 578188 | 23.35 | 508151 | 26.02 | 558473 | 24.41 | 831957  |
| 9    | 2210     | NT1003222309.D | BLC0442-SRM1  | 1  | 9.08           | 176010 | 11.57 | 626650 | 15.19 | 347719 | 18.25 | 641196 | 23.35 | 540321 | 26.02 | 620785 | 24.41 | 939788  |
| 10   | 2249     | NT1003222310.D | 23A0179-01RE1 | 1  | 9.08           | 165652 | 11.57 | 593120 | 15.19 | 325756 | 18.25 | 627650 | 23.35 | 567532 | 26.04 | 668016 | 24.42 | 986968  |
| 11   | 2327     | NT1003222311.D | 23A0179-02RE1 | 1  | 9.09           | 180142 | 11.57 | 649859 | 15.19 | 353953 | 18.25 | 665241 | 23.35 | 587247 | 26.04 | 698935 | 24.42 | 1031564 |
| 12   | 0005     | NT1003222312.D | 23A0179-03RE1 | 1  | 9.08           | 173261 | 11.57 | 629654 | 15.20 | 344777 | 18.25 | 645006 | 23.35 | 581703 | 26.05 | 680067 | 24.42 | 990496  |
| 13   | 0043     | NT1003222313.D | 23A0179-04RE1 | 1  | 9.09           | 164835 | 11.57 | 599493 | 15.20 | 336367 | 18.25 | 643416 | 23.35 | 572423 | 26.05 | 660096 | 24.42 | 994537  |
| 14   | 0121     | NT1003222314.D | 23A0179-05RE1 | 1  | 9.09           | 171604 | 11.57 | 616135 | 15.20 | 340623 | 18.26 | 630416 | 23.35 | 572980 | 26.05 | 664278 | 24.42 | 961985  |
| 15   | 0159     | NT1003222315.D | 23A0179-06RE1 | 1  | 9.09           | 166339 | 11.57 | 614772 | 15.20 | 340891 | 18.26 | 651012 | 23.36 | 595086 | 26.06 | 666096 | 24.43 | 979419  |
| 16   | 0237     | NT1003222316.D | 23A0179-07RE1 | 1  | 9.09           | 161086 | 11.57 | 581202 | 15.20 | 319968 | 18.26 | 603781 | 23.35 | 533437 | 26.05 | 620378 | 24.42 | 923370  |
| 17   | 0315     | NT1003222317.D | SLC0397-ICV2  | 1  | 9.09           | 137603 | 11.57 | 494588 | 15.20 | 278674 | 18.26 | 509229 | 23.35 | 462271 | 26.04 | 551153 | 24.42 | 782572  |
| 18   | 0352     | NT1003222318.D | SEQ-CCVSIM    | 1  | 9.09           | 123371 | 11.57 | 446429 | 15.20 | 251878 | 18.25 | 466896 | 23.35 | 425250 | 26.04 | 498507 | 24.42 | 675893  |
| 19   | 0430     | NT1003222319.D | SLC0397-LCV2  | 1  | 9.09           | 136247 | 11.57 | 480759 | 15.20 | 262317 | 18.25 | 483839 | 23.35 | 443368 | 26.05 | 516437 | 24.42 | 679545  |
| 20   | 0508     | NT1003222320.D | SEQ-LCV100    | 1  | 9.09           | 120146 | 11.57 | 424674 | 15.20 | 232871 | 18.25 | 431222 | 23.35 | 380681 | 26.04 | 443838 | 24.42 | 578976  |

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b

| Time | Filename | LabID          | ClientId      | DF |   |  |      |               |               |               |               |               |               |        |
|------|----------|----------------|---------------|----|---|--|------|---------------|---------------|---------------|---------------|---------------|---------------|--------|
| 21   | 0546     | NT1003222321.D | BLC0442-BLK3  |    | 1 |  | 9.08 | 161589  11.57 | 572184  15.20 | 315580  18.25 | 596777  23.35 | 504797  26.04 | 587644  24.43 | 820765 |
| 22   | 0624     | NT1003222322.D | BLC0442-MS1   |    | 1 |  | 9.09 | 141251  11.58 | 513214  15.20 | 291010  18.26 | 557499  23.36 | 511293  26.05 | 604025  24.43 | 868170 |
| 23   | 0701     | NT1003222323.D | BLC0442-MSD1  |    | 1 |  | 9.08 | 143224  11.58 | 532672  15.20 | 295809  18.26 | 575737  23.35 | 496414  26.05 | 583123  24.42 | 863843 |
| 24   | 0739     | NT1003222324.D | 23A0179-08RE1 |    | 1 |  | 9.09 | 148776  11.58 | 550617  15.20 | 307211  18.26 | 578105  23.36 | 530682  26.06 | 599514  24.43 | 885973 |
| 25   | 0817     | NT1003222325.D | 23A0179-09RE1 |    | 1 |  | 9.08 | 148527  11.57 | 545849  15.20 | 305553  18.26 | 580255  23.35 | 543015  26.06 | 604455  24.43 | 916417 |
| 26   | 0855     | NT1003222326.D | 23A0179-10RE1 |    | 1 |  | 9.09 | 147991  11.58 | 539802  15.20 | 305843  18.26 | 575184  23.36 | 538713  26.06 | 599572  24.43 | 905425 |
| 27   | 0933     | NT1003222327.D | 23A0179-11RE1 |    | 1 |  | 9.09 | 155943  11.58 | 568533  15.20 | 315922  18.26 | 605413  23.36 | 541947  26.06 | 597568  24.44 | 921583 |
| 28   | 1011     | NT1003222328.D | 23A0179-12RE1 |    | 1 |  | 9.08 | 159763  11.58 | 576470  15.21 | 324467  18.27 | 621505  23.37 | 575362  26.07 | 602076  24.44 | 935621 |
| 29   | 1049     | NT1003222329.D | 23A0180-01RE1 |    | 1 |  | 9.09 | 145254  11.58 | 532212  15.21 | 297565  18.27 | 574478  23.37 | 520470  26.07 | 558336  24.44 | 839017 |
| 30   | 1127     | NT1003222330.D | 23A0180-02RE1 |    | 1 |  | 9.08 | 148251  11.58 | 532416  15.21 | 296317  18.27 | 570943  23.37 | 509451  26.08 | 532034  24.44 | 823614 |
| 31   | 1205     | NT1003222331.D | 23A0180-03RE1 |    | 1 |  | 9.09 | 143040  11.57 | 525497  15.20 | 293707  18.26 | 571286  23.35 | 504676  26.05 | 540499  24.42 | 840395 |
| 32   | 1244     | NT1003222332.D | 23A0180-04RE1 |    | 1 |  | 9.08 | 131766  11.57 | 490237  15.20 | 275820  18.25 | 521708  23.35 | 490258  26.05 | 520088  24.42 | 791503 |
| 33   | 1322     | NT1003222333.D | SLC0397-CCV1  |    | 1 |  | 9.09 | 115795  11.57 | 422030  15.20 | 244644  18.25 | 458729  23.35 | 445472  26.02 | 483312  24.41 | 714340 |



MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b

Instrument: nt10.i Date: 22-MAR-2023

| Time | Filename       | LabID         | DF | Manually Integrated Compounds                                   |
|------|----------------|---------------|----|---|
| 1727 | NT1003222301.D | SLC0397-TUN1  | 1  | NO MANUAL INTEGRATION   |
| 1742 | NT1003222302.D | SLC0397-ICV1  | 1  | 2,2'-oxybis(1-Chloropropane),                                   |
| 1820 | NT1003222303.D | SEQ-ICVSIM    | 1  | NO MANUAL INTEGRATION   |
| 1859 | NT1003222304.D | SLC0397-LCV1  | 1  | 2,2'-oxybis(1-Chloropropane), 2-Nitrophenol, 2,4-Dinitrophenol, |
| 1937 | NT1003222305.D | SEQ-LCV100    | 1  | NO MANUAL INTEGRATION   |
| 2016 | NT1003222306.D | BLC0442-BLK1  | 1  | NO MANUAL INTEGRATION   |
| 2054 | NT1003222307.D | BLC0442-BS1   | 1  | NO MANUAL INTEGRATION   |
| 2132 | NT1003222308.D | BLC0442-BSD1  | 1  | NO MANUAL INTEGRATION   |
| 2210 | NT1003222309.D | BLC0442-SRM1  | 1  | NO MANUAL INTEGRATION   |
| 2249 | NT1003222310.D | 23A0179-01RE1 | 1  | 2-Methylphenol, Dibenzo(a,h)anthracene,                         |
| 2327 | NT1003222311.D | 23A0179-02RE1 | 1  | Benzoic acid, Dibenzo(a,h)anthracene,                           |
| 0005 | NT1003222312.D | 23A0179-03RE1 | 1  | Dibenzo(a,h)anthracene,   |
| 0043 | NT1003222313.D | 23A0179-04RE1 | 1  | Dibenzo(a,h)anthracene,   |
| 0121 | NT1003222314.D | 23A0179-05RE1 | 1  | Dibenzo(a,h)anthracene,   |
| 0159 | NT1003222315.D | 23A0179-06RE1 | 1  | NO MANUAL INTEGRATION   |
| 0237 | NT1003222316.D | 23A0179-07RE1 | 1  | Benzoic acid, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene,     |
| 0315 | NT1003222317.D | SLC0397-ICV2  | 1  | 2,2'-oxybis(1-Chloropropane),                                   |

Instrument: nt10.i Date: 23-MAR-2023

| Time | Filename       | LabID         | DF | Manually Integrated Compounds                |
|------|----------------|---------------|----|--|
| 0352 | NT1003222318.D | SEQ-CCVSIM    | 1  | NO MANUAL INTEGRATION                        |
| 0430 | NT1003222319.D | SLC0397-LCV2  | 1  | 2,2'-oxybis(1-Chloropropane), 4-Nitrophenol, |
| 0508 | NT1003222320.D | SEQ-LCV100    | 1  | NO MANUAL INTEGRATION                        |
| 0546 | NT1003222321.D | BLC0442-BLK3  | 1  | NO MANUAL INTEGRATION                        |
| 0624 | NT1003222322.D | BLC0442-MS1   | 1  | 4-Chloroaniline, Pyridine,                   |
| 0701 | NT1003222323.D | BLC0442-MSD1  | 1  | Pyridine,                                    |
| 0739 | NT1003222324.D | 23A0179-08RE1 | 1  | NO MANUAL INTEGRATION                        |
| 0817 | NT1003222325.D | 23A0179-09RE1 | 1  | 2-Methylphenol, Dibenzo(a,h)anthracene,      |
| 0855 | NT1003222326.D | 23A0179-10RE1 | 1  | 2-Methylphenol, Dibenzo(a,h)anthracene,      |
| 0933 | NT1003222327.D | 23A0179-11RE1 | 1  | 2-Methylphenol, Dibenzo(a,h)anthracene,      |
| 1011 | NT1003222328.D | 23A0179-12RE1 | 1  | Benzoic acid, Dibenzo(a,h)anthracene,        |
| 1049 | NT1003222329.D | 23A0180-01RE1 | 1  | Benzoic acid,                                |
| 1127 | NT1003222330.D | 23A0180-02RE1 | 1  | Benzoic acid, Dibenzo(a,h)anthracene,        |
| 1205 | NT1003222331.D | 23A0180-03RE1 | 1  | Benzoic acid,                                |
| 1244 | NT1003222332.D | 23A0180-04RE1 | 1  | Benzoic acid, Dibenzo(a,h)anthracene,        |
| 1322 | NT1003222333.D | SLC0397-CCV1  | 1  | 2,2'-oxybis(1-Chloropropane),                |

Security Status Report

Date: 25-Mar-2023 10:49

|                |             |                        |
|----------------|-------------|------------------------|
| NT1003222301.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222302.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222303.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222304.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222305.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222306.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222307.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222308.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222309.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222310.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222311.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222312.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222313.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222314.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222315.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222316.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222317.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222318.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222319.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222320.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222321.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222322.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222323.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222324.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222325.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222326.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222327.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222328.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222329.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222330.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222331.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222332.D | Data Locked | van, 25-Mar-2023 10:49 |
| NT1003222333.D | Data Locked | van, 25-Mar-2023 10:49 |





**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLB0374  
Calibration: GC00033

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT14  
Calibration Date: 02/28/2023

| Surrogate Compound   | Spike Level ug/mL | % Recovery | Recovery Limits | RT     | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|-------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| <b>SLB0374-LCV1 (Water)</b> Lab File ID: NT1423022823.D Analyzed: 03/01/23 14:51 |                   |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 0.30000           | 72.5       | 50 - 150        | 6.066  | 6.074857            | -0.0089 | N/A           |   |
| Phenol-d5  | 0.30000           | 83.9       | 50 - 150        | 7.65   | 7.653143            | -0.0031 | N/A           |   |
| 2-Chlorophenol-d4  | 0.30000           | 90.5       | 50 - 150        | 7.858  | 7.869429            | -0.0114 | N/A           |   |
| 1,2-Dichlorobenzene-d4   | 0.20000           | 97.8       | 50 - 150        | 8.548  | 8.566               | -0.0180 | N/A           |   |
| Nitrobenzene-d5  | 0.20000           | 98.7       | 50 - 150        | 9.293  | 9.31                | -0.0170 | N/A           |   |
| 2-Fluorobiphenyl   | 0.20000           | 103        | 50 - 150        | 12.869 | 12.89071            | -0.0217 | N/A           |   |
| 2,4,6-Tribromophenol   | 0.30000           | 69.1       | 50 - 150        | 15.877 | 15.88714            | -0.0101 | N/A           |   |
| p-Terphenyl-d14  | 0.20000           | 99.3       | 50 - 150        | 20.464 | 20.48257            | -0.0186 | N/A           |   |
| <b>SLB0374-LCV2 (Water)</b> Lab File ID: NT1423022825.D Analyzed: 03/01/23 16:04 |                   |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 0.75000           | 92.0       | 50 - 150        | 6.05   | 6.074857            | -0.0249 | N/A           |   |
| Phenol-d5  | 0.75000           | 100        | 50 - 150        | 7.634  | 7.653143            | -0.0191 | N/A           |   |
| 2-Chlorophenol-d4  | 0.75000           | 100        | 50 - 150        | 7.85   | 7.869429            | -0.0194 | N/A           |   |
| 1,2-Dichlorobenzene-d4   | 0.50000           | 102        | 50 - 150        | 8.548  | 8.566               | -0.0180 | N/A           |   |
| Nitrobenzene-d5  | 0.50000           | 108        | 50 - 150        | 9.285  | 9.31                | -0.0250 | N/A           |   |
| 2-Fluorobiphenyl   | 0.50000           | 105        | 50 - 150        | 12.869 | 12.89071            | -0.0217 | N/A           |   |
| 2,4,6-Tribromophenol   | 0.75000           | 83.1       | 50 - 150        | 15.869 | 15.88714            | -0.0181 | N/A           |   |
| p-Terphenyl-d14  | 0.50000           | 103        | 50 - 150        | 20.464 | 20.48257            | -0.0186 | N/A           |   |
| <b>BLA0557-BLK1 (Solid)</b> Lab File ID: NT1423022826.D Analyzed: 03/01/23 16:40 |                   |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 750.00            | 74.8       | 27 - 120        | 6.058  | 6.074857            | -0.0169 | N/A           |   |
| Phenol-d5  | 750.00            | 75.3       | 29 - 120        | 7.634  | 7.653143            | -0.0191 | N/A           |   |
| 2-Chlorophenol-d4  | 750.00            | 74.0       | 31 - 120        | 7.843  | 7.869429            | -0.0264 | N/A           |   |
| 1,2-Dichlorobenzene-d4   | 500.00            | 74.6       | 32 - 120        | 8.54   | 8.566               | -0.0260 | N/A           |   |
| Nitrobenzene-d5  | 500.00            | 89.7       | 30 - 120        | 9.278  | 9.31                | -0.0320 | N/A           |   |
| 2-Fluorobiphenyl   | 500.00            | 83.0       | 35 - 120        | 12.87  | 12.89071            | -0.0207 | N/A           |   |
| 2,4,6-Tribromophenol   | 750.00            | 64.2       | 24 - 134        | 15.862 | 15.88714            | -0.0251 | N/A           |   |
| p-Terphenyl-d14  | 500.00            | 97.8       | 37 - 120        | 20.464 | 20.48257            | -0.0186 | N/A           |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLB0374  
Calibration: GC00033

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT14  
Calibration Date: 02/28/2023

| Surrogate Compound          | Spike Level ug/kg wet | % Recovery                  | Recovery Limits | RT     | Calibration Mean RT      | RT Diff | RT Diff Limit | Q |
|-----------------------------|-----------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| <b>BLA0557-BS1 (Solid)</b>  |                       | Lab File ID: NT1423022827.D |                 |        | Analyzed: 03/01/23 17:16 |         |               |   |
| 2-Fluorophenol              | 750.00                | 80.9                        | 27 - 120        | 6.066  | 6.074857                 | -0.0089 | N/A           |   |
| Phenol-d5                   | 750.00                | 83.0                        | 29 - 120        | 7.634  | 7.653143                 | -0.0191 | N/A           |   |
| 2-Chlorophenol-d4           | 750.00                | 74.8                        | 31 - 120        | 7.843  | 7.869429                 | -0.0264 | N/A           |   |
| 1,2-Dichlorobenzene-d4      | 500.00                | 66.7                        | 32 - 120        | 8.54   | 8.566                    | -0.0260 | N/A           |   |
| Nitrobenzene-d5             | 500.00                | 83.6                        | 30 - 120        | 9.285  | 9.31                     | -0.0250 | N/A           |   |
| 2-Fluorobiphenyl            | 500.00                | 78.2                        | 35 - 120        | 12.87  | 12.89071                 | -0.0207 | N/A           |   |
| 2,4,6-Tribromophenol        | 750.00                | 92.0                        | 24 - 134        | 15.87  | 15.88714                 | -0.0171 | N/A           |   |
| p-Terphenyl-d14             | 500.00                | 93.9                        | 37 - 120        | 20.464 | 20.48257                 | -0.0186 | N/A           |   |
| <b>BLA0557-BSD1 (Solid)</b> |                       | Lab File ID: NT1423022828.D |                 |        | Analyzed: 03/01/23 17:52 |         |               |   |
| 2-Fluorophenol              | 750.00                | 85.9                        | 27 - 120        | 6.066  | 6.074857                 | -0.0089 | N/A           |   |
| Phenol-d5                   | 750.00                | 88.1                        | 29 - 120        | 7.634  | 7.653143                 | -0.0191 | N/A           |   |
| 2-Chlorophenol-d4           | 750.00                | 79.9                        | 31 - 120        | 7.85   | 7.869429                 | -0.0194 | N/A           |   |
| 1,2-Dichlorobenzene-d4      | 500.00                | 71.9                        | 32 - 120        | 8.54   | 8.566                    | -0.0260 | N/A           |   |
| Nitrobenzene-d5             | 500.00                | 88.3                        | 30 - 120        | 9.285  | 9.31                     | -0.0250 | N/A           |   |
| 2-Fluorobiphenyl            | 500.00                | 84.5                        | 35 - 120        | 12.87  | 12.89071                 | -0.0207 | N/A           |   |
| 2,4,6-Tribromophenol        | 750.00                | 96.3                        | 24 - 134        | 15.87  | 15.88714                 | -0.0171 | N/A           |   |
| p-Terphenyl-d14             | 500.00                | 94.8                        | 37 - 120        | 20.464 | 20.48257                 | -0.0186 | N/A           |   |
| <b>BLA0557-SRM1 (Solid)</b> |                       | Lab File ID: NT1423022829.D |                 |        | Analyzed: 03/01/23 18:28 |         |               |   |
| 2-Fluorophenol              | 7500.0                | 86.0                        | 27 - 120        | 6.066  | 6.074857                 | -0.0089 | N/A           |   |
| Phenol-d5                   | 7500.0                | 84.2                        | 29 - 120        | 7.634  | 7.653143                 | -0.0191 | N/A           |   |
| 2-Chlorophenol-d4           | 7500.0                | 78.3                        | 31 - 120        | 7.843  | 7.869429                 | -0.0264 | N/A           |   |
| 1,2-Dichlorobenzene-d4      | 5000.0                | 69.1                        | 32 - 120        | 8.54   | 8.566                    | -0.0260 | N/A           |   |
| Nitrobenzene-d5             | 5000.0                | 82.9                        | 30 - 120        | 9.278  | 9.31                     | -0.0320 | N/A           |   |
| 2-Fluorobiphenyl            | 5000.0                | 80.4                        | 35 - 120        | 12.87  | 12.89071                 | -0.0207 | N/A           |   |
| 2,4,6-Tribromophenol        | 7500.0                | 96.7                        | 24 - 134        | 15.862 | 15.88714                 | -0.0251 | N/A           |   |
| p-Terphenyl-d14             | 5000.0                | 96.2                        | 37 - 120        | 20.464 | 20.48257                 | -0.0186 | N/A           |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLB0374  
Calibration: GC00033

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT14  
Calibration Date: 02/28/2023

| Surrogate Compound        | Spike Level ug/kg dry | % Recovery                  | Recovery Limits | RT     | Calibration Mean RT      | RT Diff | RT Diff Limit | Q |
|---------------------------|-----------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| <b>23A0179-01 (Solid)</b> |                       | Lab File ID: NT1423022830.D |                 |        | Analyzed: 03/01/23 19:04 |         |               |   |
| 2-Fluorophenol            | 745.82                | 83.2                        | 27 - 120        | 6.066  | 6.074857                 | -0.0089 | N/A           |   |
| Phenol-d5                 | 745.82                | 82.7                        | 29 - 120        | 7.634  | 7.653143                 | -0.0191 | N/A           |   |
| 2-Chlorophenol-d4         | 745.82                | 75.8                        | 31 - 120        | 7.85   | 7.869429                 | -0.0194 | N/A           |   |
| 1,2-Dichlorobenzene-d4    | 497.21                | 69.7                        | 32 - 120        | 8.548  | 8.566                    | -0.0180 | N/A           |   |
| Nitrobenzene-d5           | 497.21                | 85.5                        | 30 - 120        | 9.278  | 9.31                     | -0.0320 | N/A           |   |
| 2-Fluorobiphenyl          | 497.21                | 80.7                        | 35 - 120        | 12.87  | 12.89071                 | -0.0207 | N/A           |   |
| 2,4,6-Tribromophenol      | 745.82                | 84.3                        | 24 - 134        | 15.862 | 15.88714                 | -0.0251 | N/A           |   |
| p-Terphenyl-d14           | 497.21                | 78.7                        | 37 - 120        | 20.471 | 20.48257                 | -0.0116 | N/A           |   |
| <b>23A0179-02 (Solid)</b> |                       | Lab File ID: NT1423022831.D |                 |        | Analyzed: 03/01/23 19:40 |         |               |   |
| 2-Fluorophenol            | 716.03                | 88.9                        | 27 - 120        | 6.074  | 6.074857                 | -0.0009 | N/A           |   |
| Phenol-d5                 | 716.03                | 89.9                        | 29 - 120        | 7.634  | 7.653143                 | -0.0191 | N/A           |   |
| 2-Chlorophenol-d4         | 716.03                | 83.1                        | 31 - 120        | 7.851  | 7.869429                 | -0.0184 | N/A           |   |
| 1,2-Dichlorobenzene-d4    | 477.35                | 77.4                        | 32 - 120        | 8.54   | 8.566                    | -0.0260 | N/A           |   |
| Nitrobenzene-d5           | 477.35                | 95.0                        | 30 - 120        | 9.278  | 9.31                     | -0.0320 | N/A           |   |
| 2-Fluorobiphenyl          | 477.35                | 86.8                        | 35 - 120        | 12.87  | 12.89071                 | -0.0207 | N/A           |   |
| 2,4,6-Tribromophenol      | 716.03                | 84.2                        | 24 - 134        | 15.862 | 15.88714                 | -0.0251 | N/A           |   |
| p-Terphenyl-d14           | 477.35                | 85.7                        | 37 - 120        | 20.479 | 20.48257                 | -0.0036 | N/A           |   |
| <b>23A0179-03 (Solid)</b> |                       | Lab File ID: NT1423022832.D |                 |        | Analyzed: 03/01/23 20:16 |         |               |   |
| 2-Fluorophenol            | 720.48                | 74.2                        | 27 - 120        | 6.066  | 6.074857                 | -0.0089 | N/A           |   |
| Phenol-d5                 | 720.48                | 84.6                        | 29 - 120        | 7.642  | 7.653143                 | -0.0111 | N/A           |   |
| 2-Chlorophenol-d4         | 720.48                | 74.3                        | 31 - 120        | 7.85   | 7.869429                 | -0.0194 | N/A           |   |
| 1,2-Dichlorobenzene-d4    | 480.32                | 76.5                        | 32 - 120        | 8.548  | 8.566                    | -0.0180 | N/A           |   |
| Nitrobenzene-d5           | 480.32                | 94.3                        | 30 - 120        | 9.278  | 9.31                     | -0.0320 | N/A           |   |
| 2-Fluorobiphenyl          | 480.32                | 88.3                        | 35 - 120        | 12.87  | 12.89071                 | -0.0207 | N/A           |   |
| 2,4,6-Tribromophenol      | 720.48                | 56.4                        | 24 - 134        | 15.87  | 15.88714                 | -0.0171 | N/A           |   |
| p-Terphenyl-d14           | 480.32                | 83.4                        | 37 - 120        | 20.479 | 20.48257                 | -0.0036 | N/A           |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG/WO: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0374

Instrument: NT14

Calibration: GC00033

Calibration Date: 02/28/2023

| Surrogate Compound        | Spike Level ug/kg dry | % Recovery                  | Recovery Limits | RT     | Calibration Mean RT      | RT Diff | RT Diff Limit | Q |
|---------------------------|-----------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| <b>23A0179-04 (Solid)</b> |                       | Lab File ID: NT1423022833.D |                 |        | Analyzed: 03/01/23 20:52 |         |               |   |
| 2-Fluorophenol            | 746.71                | 86.5                        | 27 - 120        | 6.058  | 6.074857                 | -0.0169 | N/A           |   |
| Phenol-d5                 | 746.71                | 84.0                        | 29 - 120        | 7.642  | 7.653143                 | -0.0111 | N/A           |   |
| 2-Chlorophenol-d4         | 746.71                | 79.2                        | 31 - 120        | 7.851  | 7.869429                 | -0.0184 | N/A           |   |
| 1,2-Dichlorobenzene-d4    | 497.81                | 72.3                        | 32 - 120        | 8.548  | 8.566                    | -0.0180 | N/A           |   |
| Nitrobenzene-d5           | 497.81                | 89.6                        | 30 - 120        | 9.286  | 9.31                     | -0.0240 | N/A           |   |
| 2-Fluorobiphenyl          | 497.81                | 80.6                        | 35 - 120        | 12.87  | 12.89071                 | -0.0207 | N/A           |   |
| 2,4,6-Tribromophenol      | 746.71                | 93.8                        | 24 - 134        | 15.87  | 15.88714                 | -0.0171 | N/A           |   |
| p-Terphenyl-d14           | 497.81                | 75.5                        | 37 - 120        | 20.487 | 20.48257                 | 0.0044  | N/A           |   |
| <b>23A0179-05 (Solid)</b> |                       | Lab File ID: NT1423022834.D |                 |        | Analyzed: 03/01/23 21:28 |         |               |   |
| 2-Fluorophenol            | 737.42                | 76.4                        | 27 - 120        | 6.066  | 6.074857                 | -0.0089 | N/A           |   |
| Phenol-d5                 | 737.42                | 80.3                        | 29 - 120        | 7.642  | 7.653143                 | -0.0111 | N/A           |   |
| 2-Chlorophenol-d4         | 737.42                | 72.4                        | 31 - 120        | 7.851  | 7.869429                 | -0.0184 | N/A           |   |
| 1,2-Dichlorobenzene-d4    | 491.61                | 67.4                        | 32 - 120        | 8.548  | 8.566                    | -0.0180 | N/A           |   |
| Nitrobenzene-d5           | 491.61                | 85.4                        | 30 - 120        | 9.286  | 9.31                     | -0.0240 | N/A           |   |
| 2-Fluorobiphenyl          | 491.61                | 79.5                        | 35 - 120        | 12.87  | 12.89071                 | -0.0207 | N/A           |   |
| 2,4,6-Tribromophenol      | 737.42                | 73.4                        | 24 - 134        | 15.87  | 15.88714                 | -0.0171 | N/A           |   |
| p-Terphenyl-d14           | 491.61                | 82.1                        | 37 - 120        | 20.479 | 20.48257                 | -0.0036 | N/A           |   |
| <b>23A0179-06 (Solid)</b> |                       | Lab File ID: NT1423022835.D |                 |        | Analyzed: 03/01/23 22:04 |         |               |   |
| 2-Fluorophenol            | 737.48                | 88.8                        | 27 - 120        | 6.074  | 6.074857                 | -0.0009 | N/A           |   |
| Phenol-d5                 | 737.48                | 87.8                        | 29 - 120        | 7.642  | 7.653143                 | -0.0111 | N/A           |   |
| 2-Chlorophenol-d4         | 737.48                | 80.3                        | 31 - 120        | 7.851  | 7.869429                 | -0.0184 | N/A           |   |
| 1,2-Dichlorobenzene-d4    | 491.65                | 68.5                        | 32 - 120        | 8.548  | 8.566                    | -0.0180 | N/A           |   |
| Nitrobenzene-d5           | 491.65                | 88.9                        | 30 - 120        | 9.286  | 9.31                     | -0.0240 | N/A           |   |
| 2-Fluorobiphenyl          | 491.65                | 81.6                        | 35 - 120        | 12.87  | 12.89071                 | -0.0207 | N/A           |   |
| 2,4,6-Tribromophenol      | 737.48                | 96.7                        | 24 - 134        | 15.87  | 15.88714                 | -0.0171 | N/A           |   |
| p-Terphenyl-d14           | 491.65                | 78.2                        | 37 - 120        | 20.479 | 20.48257                 | -0.0036 | N/A           |   |





**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLB0374  
Calibration: GC00033

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT14  
Calibration Date: 02/28/2023

| Surrogate Compound          | Spike Level ug/mL | % Recovery                  | Recovery Limits | RT     | Calibration Mean RT      | RT Diff | RT Diff Limit | Q |
|-----------------------------|-------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| <b>SLB0374-ICV3 (Water)</b> |                   | Lab File ID: NT1423022836.D |                 |        | Analyzed: 03/01/23 22:40 |         |               |   |
| 2-Fluorophenol              | 7.5000            | 121                         | 80 - 120        | 6.05   | 6.074857                 | -0.0249 | N/A           | * |
| Phenol-d5                   | 7.5000            | 116                         | 80 - 120        | 7.642  | 7.653143                 | -0.0111 | N/A           |   |
| 2-Chlorophenol-d4           | 7.5000            | 103                         | 80 - 120        | 7.85   | 7.869429                 | -0.0194 | N/A           |   |
| 1,2-Dichlorobenzene-d4      | 5.0000            | 96.8                        | 80 - 120        | 8.548  | 8.566                    | -0.0180 | N/A           |   |
| Nitrobenzene-d5             | 5.0000            | 117                         | 80 - 120        | 9.285  | 9.31                     | -0.0250 | N/A           |   |
| 2-Fluorobiphenyl            | 5.0000            | 99.6                        | 80 - 120        | 12.877 | 12.89071                 | -0.0137 | N/A           |   |
| 2,4,6-Tribromophenol        | 7.5000            | 101                         | 80 - 120        | 15.87  | 15.88714                 | -0.0171 | N/A           |   |
| p-Terphenyl-d14             | 5.0000            | 87.2                        | 80 - 120        | 20.471 | 20.48257                 | -0.0116 | N/A           |   |
| <b>SLB0374-LCV3 (Water)</b> |                   | Lab File ID: NT1423022838.D |                 |        | Analyzed: 03/01/23 23:52 |         |               |   |
| 2-Fluorophenol              | 0.30000           | 102                         | 50 - 150        | 6.073  | 6.074857                 | -0.0019 | N/A           |   |
| Phenol-d5                   | 0.30000           | 94.4                        | 50 - 150        | 7.657  | 7.653143                 | 0.0039  | N/A           |   |
| 2-Chlorophenol-d4           | 0.30000           | 92.9                        | 50 - 150        | 7.858  | 7.869429                 | -0.0114 | N/A           |   |
| 1,2-Dichlorobenzene-d4      | 0.20000           | 95.9                        | 50 - 150        | 8.556  | 8.566                    | -0.0100 | N/A           |   |
| Nitrobenzene-d5             | 0.20000           | 97.3                        | 50 - 150        | 9.293  | 9.31                     | -0.0170 | N/A           |   |
| 2-Fluorobiphenyl            | 0.20000           | 104                         | 50 - 150        | 12.877 | 12.89071                 | -0.0137 | N/A           |   |
| 2,4,6-Tribromophenol        | 0.30000           | 67.8                        | 50 - 150        | 15.877 | 15.88714                 | -0.0101 | N/A           |   |
| p-Terphenyl-d14             | 0.20000           | 90.4                        | 50 - 150        | 20.471 | 20.48257                 | -0.0116 | N/A           |   |
| <b>SLB0374-LCV4 (Water)</b> |                   | Lab File ID: NT1423022839.D |                 |        | Analyzed: 03/02/23 00:28 |         |               |   |
| 2-Fluorophenol              | 0.75000           | 90.9                        | 50 - 150        | 6.058  | 6.074857                 | -0.0169 | N/A           |   |
| Phenol-d5                   | 0.75000           | 96.0                        | 50 - 150        | 7.642  | 7.653143                 | -0.0111 | N/A           |   |
| 2-Chlorophenol-d4           | 0.75000           | 101                         | 50 - 150        | 7.858  | 7.869429                 | -0.0114 | N/A           |   |
| 1,2-Dichlorobenzene-d4      | 0.50000           | 99.7                        | 50 - 150        | 8.548  | 8.566                    | -0.0180 | N/A           |   |
| Nitrobenzene-d5             | 0.50000           | 110                         | 50 - 150        | 9.293  | 9.31                     | -0.0170 | N/A           |   |
| 2-Fluorobiphenyl            | 0.50000           | 104                         | 50 - 150        | 12.878 | 12.89071                 | -0.0127 | N/A           |   |
| 2,4,6-Tribromophenol        | 0.75000           | 72.3                        | 50 - 150        | 15.87  | 15.88714                 | -0.0171 | N/A           |   |
| p-Terphenyl-d14             | 0.50000           | 93.1                        | 50 - 150        | 20.472 | 20.48257                 | -0.0106 | N/A           |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG/WO: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0374

Instrument: NT14

Calibration: GC00033

Calibration Date: 02/28/2023

| Surrogate Compound        | Spike Level ug/kg dry | % Recovery                  | Recovery Limits | RT     | Calibration Mean RT      | RT Diff | RT Diff Limit | Q |  |
|---------------------------|-----------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|--|
| <b>23A0179-07 (Solid)</b> |                       | Lab File ID: NT1423022840.D |                 |        | Analyzed: 03/02/23 01:03 |         |               |   |  |
| 2-Fluorophenol            | 749.81                | 93.3                        | 27 - 120        | 6.066  | 6.074857                 | -0.0089 | N/A           |   |  |
| Phenol-d5                 | 749.81                | 89.1                        | 29 - 120        | 7.642  | 7.653143                 | -0.0111 | N/A           |   |  |
| 2-Chlorophenol-d4         | 749.81                | 85.9                        | 31 - 120        | 7.851  | 7.869429                 | -0.0184 | N/A           |   |  |
| 1,2-Dichlorobenzene-d4    | 499.87                | 77.3                        | 32 - 120        | 8.548  | 8.566                    | -0.0180 | N/A           |   |  |
| Nitrobenzene-d5           | 499.87                | 96.3                        | 30 - 120        | 9.286  | 9.31                     | -0.0240 | N/A           |   |  |
| 2-Fluorobiphenyl          | 499.87                | 85.4                        | 35 - 120        | 12.877 | 12.89071                 | -0.0137 | N/A           |   |  |
| 2,4,6-Tribromophenol      | 749.81                | 89.2                        | 24 - 134        | 15.87  | 15.88714                 | -0.0171 | N/A           |   |  |
| p-Terphenyl-d14           | 499.87                | 83.8                        | 37 - 120        | 20.479 | 20.48257                 | -0.0036 | N/A           |   |  |
| <b>23A0179-08 (Solid)</b> |                       | Lab File ID: NT1423022841.D |                 |        | Analyzed: 03/02/23 01:39 |         |               |   |  |
| 2-Fluorophenol            | 721.12                | 71.5                        | 27 - 120        | 6.073  | 6.074857                 | -0.0019 | N/A           |   |  |
| Phenol-d5                 | 721.12                | 87.4                        | 29 - 120        | 7.65   | 7.653143                 | -0.0031 | N/A           |   |  |
| 2-Chlorophenol-d4         | 721.12                | 74.0                        | 31 - 120        | 7.858  | 7.869429                 | -0.0114 | N/A           |   |  |
| 1,2-Dichlorobenzene-d4    | 480.75                | 77.4                        | 32 - 120        | 8.548  | 8.566                    | -0.0180 | N/A           |   |  |
| Nitrobenzene-d5           | 480.75                | 96.3                        | 30 - 120        | 9.285  | 9.31                     | -0.0250 | N/A           |   |  |
| 2-Fluorobiphenyl          | 480.75                | 87.9                        | 35 - 120        | 12.877 | 12.89071                 | -0.0137 | N/A           |   |  |
| 2,4,6-Tribromophenol      | 721.12                | 51.5                        | 24 - 134        | 15.87  | 15.88714                 | -0.0171 | N/A           |   |  |
| p-Terphenyl-d14           | 480.75                | 83.0                        | 37 - 120        | 20.487 | 20.48257                 | 0.0044  | N/A           |   |  |
| <b>23A0179-11 (Solid)</b> |                       | Lab File ID: NT1423022842.D |                 |        | Analyzed: 03/02/23 02:15 |         |               |   |  |
| 2-Fluorophenol            | 725.34                | 85.3                        | 27 - 120        | 6.073  | 6.074857                 | -0.0019 | N/A           |   |  |
| Phenol-d5                 | 725.34                | 84.7                        | 29 - 120        | 7.65   | 7.653143                 | -0.0031 | N/A           |   |  |
| 2-Chlorophenol-d4         | 725.34                | 76.6                        | 31 - 120        | 7.858  | 7.869429                 | -0.0114 | N/A           |   |  |
| 1,2-Dichlorobenzene-d4    | 483.56                | 68.1                        | 32 - 120        | 8.548  | 8.566                    | -0.0180 | N/A           |   |  |
| Nitrobenzene-d5           | 483.56                | 87.9                        | 30 - 120        | 9.285  | 9.31                     | -0.0250 | N/A           |   |  |
| 2-Fluorobiphenyl          | 483.56                | 80.7                        | 35 - 120        | 12.877 | 12.89071                 | -0.0137 | N/A           |   |  |
| 2,4,6-Tribromophenol      | 725.34                | 88.2                        | 24 - 134        | 15.877 | 15.88714                 | -0.0101 | N/A           |   |  |
| p-Terphenyl-d14           | 483.56                | 74.2                        | 37 - 120        | 20.487 | 20.48257                 | 0.0044  | N/A           |   |  |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLB0374  
Calibration: GC00033

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT14  
Calibration Date: 02/28/2023

| Surrogate Compound          | Spike Level ug/kg dry | % Recovery                  | Recovery Limits | RT     | Calibration Mean RT      | RT Diff | RT Diff Limit | Q |
|-----------------------------|-----------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| <b>23A0179-12 (Solid)</b>   |                       | Lab File ID: NT1423022843.D |                 |        | Analyzed: 03/02/23 02:51 |         |               |   |
| 2-Fluorophenol              | 729.95                | 88.6                        | 27 - 120        | 6.074  | 6.074857                 | -0.0009 | N/A           |   |
| Phenol-d5                   | 729.95                | 89.3                        | 29 - 120        | 7.65   | 7.653143                 | -0.0031 | N/A           |   |
| 2-Chlorophenol-d4           | 729.95                | 80.8                        | 31 - 120        | 7.858  | 7.869429                 | -0.0114 | N/A           |   |
| 1,2-Dichlorobenzene-d4      | 486.63                | 71.1                        | 32 - 120        | 8.548  | 8.566                    | -0.0180 | N/A           |   |
| Nitrobenzene-d5             | 486.63                | 90.9                        | 30 - 120        | 9.286  | 9.31                     | -0.0240 | N/A           |   |
| 2-Fluorobiphenyl            | 486.63                | 83.0                        | 35 - 120        | 12.877 | 12.89071                 | -0.0137 | N/A           |   |
| 2,4,6-Tribromophenol        | 729.95                | 92.3                        | 24 - 134        | 15.877 | 15.88714                 | -0.0101 | N/A           |   |
| p-Terphenyl-d14             | 486.63                | 79.2                        | 37 - 120        | 20.487 | 20.48257                 | 0.0044  | N/A           |   |
| <b>SLB0374-ICV4 (Water)</b> |                       | Lab File ID: NT1423022848.D |                 |        | Analyzed: 03/02/23 05:52 |         |               |   |
| 2-Fluorophenol              | 7.5000                | 124                         | 80 - 120        | 6.066  | 6.074857                 | -0.0089 | N/A           | * |
| Phenol-d5                   | 7.5000                | 119                         | 80 - 120        | 7.65   | 7.653143                 | -0.0031 | N/A           |   |
| 2-Chlorophenol-d4           | 7.5000                | 116                         | 80 - 120        | 7.858  | 7.869429                 | -0.0114 | N/A           |   |
| 1,2-Dichlorobenzene-d4      | 5.0000                | 97.7                        | 80 - 120        | 8.556  | 8.566                    | -0.0100 | N/A           |   |
| Nitrobenzene-d5             | 5.0000                | 119                         | 80 - 120        | 9.293  | 9.31                     | -0.0170 | N/A           |   |
| 2-Fluorobiphenyl            | 5.0000                | 101                         | 80 - 120        | 12.885 | 12.89071                 | -0.0057 | N/A           |   |
| 2,4,6-Tribromophenol        | 7.5000                | 99.8                        | 80 - 120        | 15.885 | 15.88714                 | -0.0021 | N/A           |   |
| p-Terphenyl-d14             | 5.0000                | 86.9                        | 80 - 120        | 20.479 | 20.48257                 | -0.0036 | N/A           |   |
| <b>SLB0374-LCV5 (Water)</b> |                       | Lab File ID: NT1423022850.D |                 |        | Analyzed: 03/02/23 07:04 |         |               |   |
| 2-Fluorophenol              | 0.30000               | 72.0                        | 50 - 150        | 6.081  | 6.074857                 | 0.0061  | N/A           |   |
| Phenol-d5                   | 0.30000               | 78.8                        | 50 - 150        | 7.665  | 7.653143                 | 0.0119  | N/A           |   |
| 2-Chlorophenol-d4           | 0.30000               | 93.8                        | 50 - 150        | 7.874  | 7.869429                 | 0.0046  | N/A           |   |
| 1,2-Dichlorobenzene-d4      | 0.20000               | 96.9                        | 50 - 150        | 8.564  | 8.566                    | -0.0020 | N/A           |   |
| Nitrobenzene-d5             | 0.20000               | 102                         | 50 - 150        | 9.309  | 9.31                     | -0.0010 | N/A           |   |
| 2-Fluorobiphenyl            | 0.20000               | 104                         | 50 - 150        | 12.885 | 12.89071                 | -0.0057 | N/A           |   |
| 2,4,6-Tribromophenol        | 0.30000               | 74.9                        | 50 - 150        | 15.893 | 15.88714                 | 0.0059  | N/A           |   |
| p-Terphenyl-d14             | 0.20000               | 89.8                        | 50 - 150        | 20.487 | 20.48257                 | 0.0044  | N/A           |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLB0374  
Calibration: GC00033

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT14  
Calibration Date: 02/28/2023

| Surrogate Compound   | Spike Level ug/mL | % Recovery | Recovery Limits | RT     | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|-------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| <b>SLB0374-LCV6 (Water)</b> Lab File ID: NT1423022851.D Analyzed: 03/02/23 07:40 |                   |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 0.75000           | 92.6       | 50 - 150        | 6.074  | 6.074857            | -0.0009 | N/A           |   |
| Phenol-d5  | 0.75000           | 107        | 50 - 150        | 7.658  | 7.653143            | 0.0049  | N/A           |   |
| 2-Chlorophenol-d4  | 0.75000           | 113        | 50 - 150        | 7.866  | 7.869429            | -0.0034 | N/A           |   |
| 1,2-Dichlorobenzene-d4   | 0.50000           | 102        | 50 - 150        | 8.556  | 8.566               | -0.0100 | N/A           |   |
| Nitrobenzene-d5  | 0.50000           | 110        | 50 - 150        | 9.301  | 9.31                | -0.0090 | N/A           |   |
| 2-Fluorobiphenyl   | 0.50000           | 105        | 50 - 150        | 12.885 | 12.89071            | -0.0057 | N/A           |   |
| 2,4,6-Tribromophenol   | 0.75000           | 77.4       | 50 - 150        | 15.885 | 15.88714            | -0.0021 | N/A           |   |
| p-Terphenyl-d14  | 0.50000           | 92.4       | 50 - 150        | 20.479 | 20.48257            | -0.0036 | N/A           |   |
| <b>23A0179-09 (Solid)</b> Lab File ID: NT1423022852.D Analyzed: 03/02/23 08:16   |                   |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 748.44            | 99.4       | 27 - 120        | 6.074  | 6.074857            | -0.0009 | N/A           |   |
| Phenol-d5  | 748.44            | 93.8       | 29 - 120        | 7.657  | 7.653143            | 0.0039  | N/A           |   |
| 2-Chlorophenol-d4  | 748.44            | 90.7       | 31 - 120        | 7.866  | 7.869429            | -0.0034 | N/A           |   |
| 1,2-Dichlorobenzene-d4   | 498.96            | 81.7       | 32 - 120        | 8.556  | 8.566               | -0.0100 | N/A           |   |
| Nitrobenzene-d5  | 498.96            | 98.3       | 30 - 120        | 9.301  | 9.31                | -0.0090 | N/A           |   |
| 2-Fluorobiphenyl   | 498.96            | 97.9       | 35 - 120        | 12.885 | 12.89071            | -0.0057 | N/A           |   |
| 2,4,6-Tribromophenol   | 748.44            | 82.3       | 24 - 134        | 15.885 | 15.88714            | -0.0021 | N/A           |   |
| p-Terphenyl-d14  | 498.96            | 101        | 37 - 120        | 20.479 | 20.48257            | -0.0036 | N/A           |   |
| <b>23A0179-10 (Solid)</b> Lab File ID: NT1423022853.D Analyzed: 03/02/23 08:53   |                   |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 732.90            | 83.6       | 27 - 120        | 6.073  | 6.074857            | -0.0019 | N/A           |   |
| Phenol-d5  | 732.90            | 89.0       | 29 - 120        | 7.657  | 7.653143            | 0.0039  | N/A           |   |
| 2-Chlorophenol-d4  | 732.90            | 81.3       | 31 - 120        | 7.866  | 7.869429            | -0.0034 | N/A           |   |
| 1,2-Dichlorobenzene-d4   | 488.60            | 77.4       | 32 - 120        | 8.556  | 8.566               | -0.0100 | N/A           |   |
| Nitrobenzene-d5  | 488.60            | 94.4       | 30 - 120        | 9.301  | 9.31                | -0.0090 | N/A           |   |
| 2-Fluorobiphenyl   | 488.60            | 91.9       | 35 - 120        | 12.885 | 12.89071            | -0.0057 | N/A           |   |
| 2,4,6-Tribromophenol   | 732.90            | 64.8       | 24 - 134        | 15.885 | 15.88714            | -0.0021 | N/A           |   |
| p-Terphenyl-d14  | 488.60            | 92.8       | 37 - 120        | 20.479 | 20.48257            | -0.0036 | N/A           |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLB0374  
Calibration: GC00033

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT14  
Calibration Date: 02/28/2023

| Surrogate Compound          | Spike Level ug/kg dry | % Recovery                  | Recovery Limits | RT     | Calibration Mean RT      | RT Diff | RT Diff Limit | Q |
|-----------------------------|-----------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| <b>BLA0557-MS1 (Solid)</b>  |                       | Lab File ID: NT1423022854.D |                 |        | Analyzed: 03/02/23 09:29 |         |               |   |
| 2-Fluorophenol              | 749.81                | 82.7                        | 27 - 120        | 6.074  | 6.074857                 | -0.0009 | N/A           |   |
| Phenol-d5                   | 749.81                | 88.5                        | 29 - 120        | 7.658  | 7.653143                 | 0.0049  | N/A           |   |
| 2-Chlorophenol-d4           | 749.81                | 84.8                        | 31 - 120        | 7.866  | 7.869429                 | -0.0034 | N/A           |   |
| 1,2-Dichlorobenzene-d4      | 499.87                | 76.9                        | 32 - 120        | 8.556  | 8.566                    | -0.0100 | N/A           |   |
| Nitrobenzene-d5             | 499.87                | 94.3                        | 30 - 120        | 9.301  | 9.31                     | -0.0090 | N/A           |   |
| 2-Fluorobiphenyl            | 499.87                | 94.3                        | 35 - 120        | 12.878 | 12.89071                 | -0.0127 | N/A           |   |
| 2,4,6-Tribromophenol        | 749.81                | 93.9                        | 24 - 134        | 15.877 | 15.88714                 | -0.0101 | N/A           |   |
| p-Terphenyl-d14             | 499.87                | 103                         | 37 - 120        | 20.479 | 20.48257                 | -0.0036 | N/A           |   |
| <b>BLA0557-MSD1 (Solid)</b> |                       | Lab File ID: NT1423022855.D |                 |        | Analyzed: 03/02/23 10:05 |         |               |   |
| 2-Fluorophenol              | 749.81                | 88.5                        | 27 - 120        | 6.073  | 6.074857                 | -0.0019 | N/A           |   |
| Phenol-d5                   | 749.81                | 93.1                        | 29 - 120        | 7.657  | 7.653143                 | 0.0039  | N/A           |   |
| 2-Chlorophenol-d4           | 749.81                | 87.8                        | 31 - 120        | 7.866  | 7.869429                 | -0.0034 | N/A           |   |
| 1,2-Dichlorobenzene-d4      | 499.87                | 80.9                        | 32 - 120        | 8.556  | 8.566                    | -0.0100 | N/A           |   |
| Nitrobenzene-d5             | 499.87                | 93.6                        | 30 - 120        | 9.301  | 9.31                     | -0.0090 | N/A           |   |
| 2-Fluorobiphenyl            | 499.87                | 94.3                        | 35 - 120        | 12.877 | 12.89071                 | -0.0137 | N/A           |   |
| 2,4,6-Tribromophenol        | 749.81                | 90.0                        | 24 - 134        | 15.877 | 15.88714                 | -0.0101 | N/A           |   |
| p-Terphenyl-d14             | 499.87                | 104                         | 37 - 120        | 20.479 | 20.48257                 | -0.0036 | N/A           |   |
| <b>SLB0374-CCV1 (Water)</b> |                       | Lab File ID: NT1423022856.D |                 |        | Analyzed: 03/02/23 10:41 |         |               |   |
| 2-Fluorophenol              | 7.5000                | 122                         | 50 - 150        | 6.058  | 6.074857                 | -0.0169 | N/A           |   |
| Phenol-d5                   | 7.5000                | 120                         | 50 - 150        | 7.65   | 7.653143                 | -0.0031 | N/A           |   |
| 2-Chlorophenol-d4           | 7.5000                | 105                         | 50 - 150        | 7.859  | 7.869429                 | -0.0104 | N/A           |   |
| 1,2-Dichlorobenzene-d4      | 5.0000                | 98.5                        | 50 - 150        | 8.556  | 8.566                    | -0.0100 | N/A           |   |
| Nitrobenzene-d5             | 5.0000                | 120                         | 50 - 150        | 9.294  | 9.31                     | -0.0160 | N/A           |   |
| 2-Fluorobiphenyl            | 5.0000                | 100                         | 50 - 150        | 12.885 | 12.89071                 | -0.0057 | N/A           |   |
| 2,4,6-Tribromophenol        | 7.5000                | 99.4                        | 50 - 150        | 15.878 | 15.88714                 | -0.0091 | N/A           |   |
| p-Terphenyl-d14             | 5.0000                | 90.6                        | 50 - 150        | 20.479 | 20.48257                 | -0.0036 | N/A           |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG/WO: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLC0228

Instrument: NT10

Calibration: GC00046

Calibration Date: 03/16/2023

| Surrogate Compound          | Spike Level ug/mL | % Recovery                | Recovery Limits | RT     | Calibration Mean RT      | RT Diff  | RT Diff Limit | Q |
|-----------------------------|-------------------|---------------------------|-----------------|--------|--------------------------|----------|---------------|---|
| <b>SLC0228-SCV1 (Solid)</b> |                   | Lab File ID: NT10031511.D |                 |        | Analyzed: 03/16/23 02:16 |          |               |   |
| 2-Fluorophenol              |                   |                           | 80 - 120        |        | 7.067714                 | -7.0677  | N/A           |   |
| Phenol-d5                   |                   |                           | 80 - 120        |        | 8.638143                 | -8.6381  | N/A           |   |
| 2-Chlorophenol-d4           |                   |                           | 80 - 120        |        | 8.931857                 | -8.9319  | N/A           |   |
| 1,2-Dichlorobenzene-d4      |                   |                           | 80 - 120        |        | 9.659143                 | -9.6591  | N/A           |   |
| Nitrobenzene-d5             |                   |                           | 80 - 120        |        | 10.389                   | -10.3890 | N/A           |   |
| 2-Fluorobiphenyl            |                   |                           | 80 - 120        |        | 13.982                   | -13.9820 | N/A           |   |
| 2,4,6-Tribromophenol        |                   |                           | 80 - 120        |        | 17.02143                 | -17.0214 | N/A           |   |
| p-Terphenyl-d14             |                   |                           | 80 - 120        |        | 21.54257                 | -21.5426 | N/A           |   |
| <b>SLC0228-ICB1 (Solid)</b> |                   | Lab File ID: NT10031512.D |                 |        | Analyzed: 03/16/23 02:54 |          |               |   |
| 2-Fluorophenol              | 7.5000            | 92.3                      | 27 - 120        | 7.067  | 7.067714                 | -0.0007  | N/A           |   |
| Phenol-d5                   | 7.5000            | 92.6                      | 29 - 120        | 8.636  | 8.638143                 | -0.0021  | N/A           |   |
| 2-Chlorophenol-d4           | 7.5000            | 94.7                      | 31 - 120        | 8.929  | 8.931857                 | -0.0029  | N/A           |   |
| 1,2-Dichlorobenzene-d4      | 5.0000            | 92.2                      | 32 - 120        | 9.658  | 9.659143                 | -0.0011  | N/A           |   |
| Nitrobenzene-d5             | 5.0000            | 93.1                      | 30 - 120        | 10.387 | 10.389                   | -0.0020  | N/A           |   |
| 2-Fluorobiphenyl            | 5.0000            | 94.6                      | 35 - 120        | 13.981 | 13.982                   | -0.0010  | N/A           |   |
| 2,4,6-Tribromophenol        | 7.5000            | 74.6                      | 24 - 134        | 17.02  | 17.02143                 | -0.0014  | N/A           |   |
| p-Terphenyl-d14             | 5.0000            | 91.7                      | 37 - 120        | 21.544 | 21.54257                 | 0.0014   | N/A           |   |





**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLC0397  
Calibration: GC00046

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT10  
Calibration Date: 03/16/2023

| Surrogate Compound   | Spike Level ug/kg wet | % Recovery | Recovery Limits | RT     | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|-----------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| <b>BLC0442-BS1 (Solid)</b> Lab File ID: NT1003222307.D Analyzed: 03/22/23 20:54  |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 750.00                | 79.6       | 27 - 120        | 6.859  | 7.067714            | -0.2087 | N/A           |   |
| Phenol-d5  | 750.00                | 83.6       | 29 - 120        | 8.45   | 8.638143            | -0.1881 | N/A           |   |
| 2-Chlorophenol-d4  | 750.00                | 88.0       | 31 - 120        | 8.721  | 8.931857            | -0.2109 | N/A           |   |
| 1,2-Dichlorobenzene-d4   | 500.00                | 82.6       | 32 - 120        | 9.441  | 9.659143            | -0.2181 | N/A           |   |
| Nitrobenzene-d5  | 500.00                | 84.7       | 30 - 120        | 10.179 | 10.389              | -0.2100 | N/A           |   |
| 2-Fluorobiphenyl   | 500.00                | 86.9       | 35 - 120        | 13.792 | 13.982              | -0.1900 | N/A           |   |
| 2,4,6-Tribromophenol   | 750.00                | 117        | 24 - 134        | 16.838 | 17.02143            | -0.1834 | N/A           |   |
| p-Terphenyl-d14  | 500.00                | 93.7       | 37 - 120        | 21.425 | 21.54257            | -0.1176 | N/A           |   |
| <b>BLC0442-BSD1 (Solid)</b> Lab File ID: NT1003222308.D Analyzed: 03/22/23 21:32 |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 750.00                | 81.9       | 27 - 120        | 6.859  | 7.067714            | -0.2087 | N/A           |   |
| Phenol-d5  | 750.00                | 85.6       | 29 - 120        | 8.45   | 8.638143            | -0.1881 | N/A           |   |
| 2-Chlorophenol-d4  | 750.00                | 89.5       | 31 - 120        | 8.721  | 8.931857            | -0.2109 | N/A           |   |
| 1,2-Dichlorobenzene-d4   | 500.00                | 83.4       | 32 - 120        | 9.441  | 9.659143            | -0.2181 | N/A           |   |
| Nitrobenzene-d5  | 500.00                | 86.5       | 30 - 120        | 10.179 | 10.389              | -0.2100 | N/A           |   |
| 2-Fluorobiphenyl   | 500.00                | 89.0       | 35 - 120        | 13.792 | 13.982              | -0.1900 | N/A           |   |
| 2,4,6-Tribromophenol   | 750.00                | 120        | 24 - 134        | 16.846 | 17.02143            | -0.1754 | N/A           |   |
| p-Terphenyl-d14  | 500.00                | 93.1       | 37 - 120        | 21.425 | 21.54257            | -0.1176 | N/A           |   |
| <b>BLC0442-SRM1 (Solid)</b> Lab File ID: NT1003222309.D Analyzed: 03/22/23 22:10 |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 7500.0                | 77.6       | 27 - 120        | 6.867  | 7.067714            | -0.2007 | N/A           |   |
| Phenol-d5  | 7500.0                | 80.5       | 29 - 120        | 8.45   | 8.638143            | -0.1881 | N/A           |   |
| 2-Chlorophenol-d4  | 7500.0                | 85.1       | 31 - 120        | 8.721  | 8.931857            | -0.2109 | N/A           |   |
| 1,2-Dichlorobenzene-d4   | 5000.0                | 78.1       | 32 - 120        | 9.441  | 9.659143            | -0.2181 | N/A           |   |
| Nitrobenzene-d5  | 5000.0                | 81.3       | 30 - 120        | 10.179 | 10.389              | -0.2100 | N/A           |   |
| 2-Fluorobiphenyl   | 5000.0                | 86.0       | 35 - 120        | 13.792 | 13.982              | -0.1900 | N/A           |   |
| 2,4,6-Tribromophenol   | 7500.0                | 120        | 24 - 134        | 16.838 | 17.02143            | -0.1834 | N/A           |   |
| p-Terphenyl-d14  | 5000.0                | 89.6       | 37 - 120        | 21.425 | 21.54257            | -0.1176 | N/A           |   |





**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLC0397  
Calibration: GC00046

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT10  
Calibration Date: 03/16/2023

| Surrogate Compound  | Spike Level ug/kg dry | % Recovery | Recovery Limits | RT     | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|---|-----------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| <b>23A0179-01RE1 (Solid)</b> Lab File ID: NT1003222310.D Analyzed: 03/22/23 22:49 |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol  | 748.89                | 70.0       | 27 - 120        | 6.866  | 7.067714            | -0.2017 | N/A           |   |
| Phenol-d5   | 748.89                | 73.4       | 29 - 120        | 8.45   | 8.638143            | -0.1881 | N/A           |   |
| 2-Chlorophenol-d4   | 748.89                | 76.9       | 31 - 120        | 8.72   | 8.931857            | -0.2119 | N/A           |   |
| 1,2-Dichlorobenzene-d4  | 499.26                | 72.4       | 32 - 120        | 9.441  | 9.659143            | -0.2181 | N/A           |   |
| Nitrobenzene-d5   | 499.26                | 76.2       | 30 - 120        | 10.179 | 10.389              | -0.2100 | N/A           |   |
| 2-Fluorobiphenyl  | 499.26                | 82.7       | 35 - 120        | 13.792 | 13.982              | -0.1900 | N/A           |   |
| 2,4,6-Tribromophenol  | 748.89                | 116        | 24 - 134        | 16.846 | 17.02143            | -0.1754 | N/A           |   |
| p-Terphenyl-d14   | 499.26                | 79.9       | 37 - 120        | 21.432 | 21.54257            | -0.1106 | N/A           |   |
| <b>23A0179-02RE1 (Solid)</b> Lab File ID: NT1003222311.D Analyzed: 03/22/23 23:27 |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol  | 749.68                | 74.2       | 27 - 120        | 6.867  | 7.067714            | -0.2007 | N/A           |   |
| Phenol-d5   | 749.68                | 77.1       | 29 - 120        | 8.451  | 8.638143            | -0.1871 | N/A           |   |
| 2-Chlorophenol-d4   | 749.68                | 81.7       | 31 - 120        | 8.721  | 8.931857            | -0.2109 | N/A           |   |
| 1,2-Dichlorobenzene-d4  | 499.78                | 74.1       | 32 - 120        | 9.442  | 9.659143            | -0.2171 | N/A           |   |
| Nitrobenzene-d5   | 499.78                | 76.7       | 30 - 120        | 10.179 | 10.389              | -0.2100 | N/A           |   |
| 2-Fluorobiphenyl  | 499.78                | 85.0       | 35 - 120        | 13.793 | 13.982              | -0.1890 | N/A           |   |
| 2,4,6-Tribromophenol  | 749.68                | 120        | 24 - 134        | 16.846 | 17.02143            | -0.1754 | N/A           |   |
| p-Terphenyl-d14   | 499.78                | 87.2       | 37 - 120        | 21.433 | 21.54257            | -0.1096 | N/A           |   |
| <b>23A0179-03RE1 (Solid)</b> Lab File ID: NT1003222312.D Analyzed: 03/23/23 00:05 |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol  | 748.71                | 76.4       | 27 - 120        | 6.866  | 7.067714            | -0.2017 | N/A           |   |
| Phenol-d5   | 748.71                | 79.2       | 29 - 120        | 8.45   | 8.638143            | -0.1881 | N/A           |   |
| 2-Chlorophenol-d4   | 748.71                | 83.2       | 31 - 120        | 8.72   | 8.931857            | -0.2119 | N/A           |   |
| 1,2-Dichlorobenzene-d4  | 499.14                | 75.8       | 32 - 120        | 9.441  | 9.659143            | -0.2181 | N/A           |   |
| Nitrobenzene-d5   | 499.14                | 78.0       | 30 - 120        | 10.179 | 10.389              | -0.2100 | N/A           |   |
| 2-Fluorobiphenyl  | 499.14                | 85.2       | 35 - 120        | 13.792 | 13.982              | -0.1900 | N/A           |   |
| 2,4,6-Tribromophenol  | 748.71                | 119        | 24 - 134        | 16.846 | 17.02143            | -0.1754 | N/A           |   |
| p-Terphenyl-d14   | 499.14                | 85.5       | 37 - 120        | 21.432 | 21.54257            | -0.1106 | N/A           |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLC0397  
Calibration: GC00046

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT10  
Calibration Date: 03/16/2023

| Surrogate Compound  | Spike Level ug/kg dry | % Recovery | Recovery Limits | RT     | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|---|-----------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| <b>23A0179-04RE1 (Solid)</b> Lab File ID: NT1003222313.D Analyzed: 03/23/23 00:43 |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol  | 749.12                | 73.5       | 27 - 120        | 6.867  | 7.067714            | -0.2007 | N/A           |   |
| Phenol-d5   | 749.12                | 74.9       | 29 - 120        | 8.451  | 8.638143            | -0.1871 | N/A           |   |
| 2-Chlorophenol-d4   | 749.12                | 79.4       | 31 - 120        | 8.721  | 8.931857            | -0.2109 | N/A           |   |
| 1,2-Dichlorobenzene-d4  | 499.41                | 71.8       | 32 - 120        | 9.442  | 9.659143            | -0.2171 | N/A           |   |
| Nitrobenzene-d5   | 499.41                | 76.9       | 30 - 120        | 10.179 | 10.389              | -0.2100 | N/A           |   |
| 2-Fluorobiphenyl  | 499.41                | 81.4       | 35 - 120        | 13.8   | 13.982              | -0.1820 | N/A           |   |
| 2,4,6-Tribromophenol  | 749.12                | 116        | 24 - 134        | 16.846 | 17.02143            | -0.1754 | N/A           |   |
| p-Terphenyl-d14   | 499.41                | 79.4       | 37 - 120        | 21.433 | 21.54257            | -0.1096 | N/A           |   |
| <b>23A0179-05RE1 (Solid)</b> Lab File ID: NT1003222314.D Analyzed: 03/23/23 01:21 |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol  | 747.82                | 78.9       | 27 - 120        | 6.867  | 7.067714            | -0.2007 | N/A           |   |
| Phenol-d5   | 747.82                | 79.4       | 29 - 120        | 8.451  | 8.638143            | -0.1871 | N/A           |   |
| 2-Chlorophenol-d4   | 747.82                | 84.9       | 31 - 120        | 8.721  | 8.931857            | -0.2109 | N/A           |   |
| 1,2-Dichlorobenzene-d4  | 498.55                | 77.7       | 32 - 120        | 9.442  | 9.659143            | -0.2171 | N/A           |   |
| Nitrobenzene-d5   | 498.55                | 81.2       | 30 - 120        | 10.179 | 10.389              | -0.2100 | N/A           |   |
| 2-Fluorobiphenyl  | 498.55                | 86.0       | 35 - 120        | 13.8   | 13.982              | -0.1820 | N/A           |   |
| 2,4,6-Tribromophenol  | 747.82                | 119        | 24 - 134        | 16.846 | 17.02143            | -0.1754 | N/A           |   |
| p-Terphenyl-d14   | 498.55                | 87.5       | 37 - 120        | 21.433 | 21.54257            | -0.1096 | N/A           |   |
| <b>23A0179-06RE1 (Solid)</b> Lab File ID: NT1003222315.D Analyzed: 03/23/23 01:59 |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol  | 746.59                | 75.7       | 27 - 120        | 6.867  | 7.067714            | -0.2007 | N/A           |   |
| Phenol-d5   | 746.59                | 78.9       | 29 - 120        | 8.451  | 8.638143            | -0.1871 | N/A           |   |
| 2-Chlorophenol-d4   | 746.59                | 83.6       | 31 - 120        | 8.721  | 8.931857            | -0.2109 | N/A           |   |
| 1,2-Dichlorobenzene-d4  | 497.73                | 74.8       | 32 - 120        | 9.442  | 9.659143            | -0.2171 | N/A           |   |
| Nitrobenzene-d5   | 497.73                | 79.0       | 30 - 120        | 10.179 | 10.389              | -0.2100 | N/A           |   |
| 2-Fluorobiphenyl  | 497.73                | 84.8       | 35 - 120        | 13.8   | 13.982              | -0.1820 | N/A           |   |
| 2,4,6-Tribromophenol  | 746.59                | 123        | 24 - 134        | 16.854 | 17.02143            | -0.1674 | N/A           |   |
| p-Terphenyl-d14   | 497.73                | 85.2       | 37 - 120        | 21.433 | 21.54257            | -0.1096 | N/A           |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLC0397  
Calibration: GC00046

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT10  
Calibration Date: 03/16/2023

| Surrogate Compound  | Spike Level ug/kg dry | % Recovery | Recovery Limits | RT     | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|---|-----------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| <b>23A0179-07RE1 (Solid)</b> Lab File ID: NT1003222316.D Analyzed: 03/23/23 02:37 |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol  | 747.03                | 79.6       | 27 - 120        | 6.859  | 7.067714            | -0.2087 | N/A           |   |
| Phenol-d5   | 747.03                | 81.3       | 29 - 120        | 8.451  | 8.638143            | -0.1871 | N/A           |   |
| 2-Chlorophenol-d4   | 747.03                | 87.2       | 31 - 120        | 8.721  | 8.931857            | -0.2109 | N/A           |   |
| 1,2-Dichlorobenzene-d4  | 498.02                | 79.4       | 32 - 120        | 9.442  | 9.659143            | -0.2171 | N/A           |   |
| Nitrobenzene-d5   | 498.02                | 82.2       | 30 - 120        | 10.179 | 10.389              | -0.2100 | N/A           |   |
| 2-Fluorobiphenyl  | 498.02                | 86.8       | 35 - 120        | 13.8   | 13.982              | -0.1820 | N/A           |   |
| 2,4,6-Tribromophenol  | 747.03                | 121        | 24 - 134        | 16.846 | 17.02143            | -0.1754 | N/A           |   |
| p-Terphenyl-d14   | 498.02                | 88.7       | 37 - 120        | 21.433 | 21.54257            | -0.1096 | N/A           |   |
| <b>SLC0397-ICV2 (Solid)</b> Lab File ID: NT1003222317.D Analyzed: 03/23/23 03:15  |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol  | 7.5000                | 100        | 80 - 120        | 6.851  | 7.067714            | -0.2167 | N/A           |   |
| Phenol-d5   | 7.5000                | 99.1       | 80 - 120        | 8.45   | 8.638143            | -0.1881 | N/A           |   |
| 2-Chlorophenol-d4   | 7.5000                | 101        | 80 - 120        | 8.721  | 8.931857            | -0.2109 | N/A           |   |
| 1,2-Dichlorobenzene-d4  | 5.0000                | 97.7       | 80 - 120        | 9.441  | 9.659143            | -0.2181 | N/A           |   |
| Nitrobenzene-d5   | 5.0000                | 96.6       | 80 - 120        | 10.179 | 10.389              | -0.2100 | N/A           |   |
| 2-Fluorobiphenyl  | 5.0000                | 98.1       | 80 - 120        | 13.8   | 13.982              | -0.1820 | N/A           |   |
| 2,4,6-Tribromophenol  | 7.5000                | 119        | 80 - 120        | 16.846 | 17.02143            | -0.1754 | N/A           |   |
| p-Terphenyl-d14   | 5.0000                | 94.1       | 80 - 120        | 21.433 | 21.54257            | -0.1096 | N/A           |   |
| <b>SLC0397-LCV2 (Solid)</b> Lab File ID: NT1003222319.D Analyzed: 03/23/23 04:30  |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol  | 0.30000               | 101        | 50 - 150        | 6.851  | 7.067714            | -0.2167 | N/A           |   |
| Phenol-d5   | 0.30000               | 96.3       | 50 - 150        | 8.443  | 8.638143            | -0.1951 | N/A           |   |
| 2-Chlorophenol-d4   | 0.30000               | 101        | 50 - 150        | 8.721  | 8.931857            | -0.2109 | N/A           |   |
| 1,2-Dichlorobenzene-d4  | 0.20000               | 104        | 50 - 150        | 9.442  | 9.659143            | -0.2171 | N/A           |   |
| Nitrobenzene-d5   | 0.20000               | 97.1       | 50 - 150        | 10.179 | 10.389              | -0.2100 | N/A           |   |
| 2-Fluorobiphenyl  | 0.20000               | 106        | 50 - 150        | 13.8   | 13.982              | -0.1820 | N/A           |   |
| 2,4,6-Tribromophenol  | 0.30000               | 94.0       | 50 - 150        | 16.846 | 17.02143            | -0.1754 | N/A           |   |
| p-Terphenyl-d14   | 0.20000               | 99.3       | 50 - 150        | 21.433 | 21.54257            | -0.1096 | N/A           |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLC0397  
Calibration: GC00046

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT10  
Calibration Date: 03/16/2023

| Surrogate Compound          | Spike Level ug/kg wet | % Recovery                  | Recovery Limits | RT     | Calibration Mean RT      | RT Diff | RT Diff Limit | Q |
|-----------------------------|-----------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| <b>BLC0442-BLK3 (Solid)</b> |                       | Lab File ID: NT1003222321.D |                 |        | Analyzed: 03/23/23 05:46 |         |               |   |
| 2-Fluorophenol              | 750.00                | 72.8                        | 27 - 120        | 6.859  | 7.067714                 | -0.2087 | N/A           |   |
| Phenol-d5                   | 750.00                | 76.3                        | 29 - 120        | 8.45   | 8.638143                 | -0.1881 | N/A           |   |
| 2-Chlorophenol-d4           | 750.00                | 81.5                        | 31 - 120        | 8.721  | 8.931857                 | -0.2109 | N/A           |   |
| 1,2-Dichlorobenzene-d4      | 500.00                | 79.2                        | 32 - 120        | 9.441  | 9.659143                 | -0.2181 | N/A           |   |
| Nitrobenzene-d5             | 500.00                | 82.5                        | 30 - 120        | 10.179 | 10.389                   | -0.2100 | N/A           |   |
| 2-Fluorobiphenyl            | 500.00                | 86.5                        | 35 - 120        | 13.8   | 13.982                   | -0.1820 | N/A           |   |
| 2,4,6-Tribromophenol        | 750.00                | 92.5                        | 24 - 134        | 16.846 | 17.02143                 | -0.1754 | N/A           |   |
| p-Terphenyl-d14             | 500.00                | 91.1                        | 37 - 120        | 21.433 | 21.54257                 | -0.1096 | N/A           |   |
| <b>BLC0442-MS1 (Solid)</b>  |                       | Lab File ID: NT1003222322.D |                 |        | Analyzed: 03/23/23 06:24 |         |               |   |
| 2-Fluorophenol              | 749.81                | 80.6                        | 27 - 120        | 6.859  | 7.067714                 | -0.2087 | N/A           |   |
| Phenol-d5                   | 749.81                | 86.8                        | 29 - 120        | 8.45   | 8.638143                 | -0.1881 | N/A           |   |
| 2-Chlorophenol-d4           | 749.81                | 86.2                        | 31 - 120        | 8.721  | 8.931857                 | -0.2109 | N/A           |   |
| 1,2-Dichlorobenzene-d4      | 499.87                | 79.3                        | 32 - 120        | 9.442  | 9.659143                 | -0.2171 | N/A           |   |
| Nitrobenzene-d5             | 499.87                | 85.1                        | 30 - 120        | 10.187 | 10.389                   | -0.2020 | N/A           |   |
| 2-Fluorobiphenyl            | 499.87                | 90.0                        | 35 - 120        | 13.8   | 13.982                   | -0.1820 | N/A           |   |
| 2,4,6-Tribromophenol        | 749.81                | 127                         | 24 - 134        | 16.854 | 17.02143                 | -0.1674 | N/A           |   |
| p-Terphenyl-d14             | 499.87                | 88.9                        | 37 - 120        | 21.44  | 21.54257                 | -0.1026 | N/A           |   |
| <b>BLC0442-MSD1 (Solid)</b> |                       | Lab File ID: NT1003222323.D |                 |        | Analyzed: 03/23/23 07:01 |         |               |   |
| 2-Fluorophenol              | 749.81                | 75.3                        | 27 - 120        | 6.859  | 7.067714                 | -0.2087 | N/A           |   |
| Phenol-d5                   | 749.81                | 80.1                        | 29 - 120        | 8.45   | 8.638143                 | -0.1881 | N/A           |   |
| 2-Chlorophenol-d4           | 749.81                | 81.9                        | 31 - 120        | 8.728  | 8.931857                 | -0.2039 | N/A           |   |
| 1,2-Dichlorobenzene-d4      | 499.87                | 75.5                        | 32 - 120        | 9.449  | 9.659143                 | -0.2101 | N/A           |   |
| Nitrobenzene-d5             | 499.87                | 78.8                        | 30 - 120        | 10.187 | 10.389                   | -0.2020 | N/A           |   |
| 2-Fluorobiphenyl            | 499.87                | 84.0                        | 35 - 120        | 13.8   | 13.982                   | -0.1820 | N/A           |   |
| 2,4,6-Tribromophenol        | 749.81                | 113                         | 24 - 134        | 16.854 | 17.02143                 | -0.1674 | N/A           |   |
| p-Terphenyl-d14             | 499.87                | 88.6                        | 37 - 120        | 21.44  | 21.54257                 | -0.1026 | N/A           |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLC0397  
Calibration: GC00046

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT10  
Calibration Date: 03/16/2023

| Surrogate Compound           | Spike Level ug/kg dry | % Recovery                  | Recovery Limits | RT     | Calibration Mean RT      | RT Diff | RT Diff Limit | Q |
|------------------------------|-----------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| <b>23A0179-08RE1 (Solid)</b> |                       | Lab File ID: NT1003222324.D |                 |        | Analyzed: 03/23/23 07:39 |         |               |   |
| 2-Fluorophenol               | 745.76                | 74.1                        | 27 - 120        | 6.867  | 7.067714                 | -0.2007 | N/A           |   |
| Phenol-d5                    | 745.76                | 76.3                        | 29 - 120        | 8.458  | 8.638143                 | -0.1801 | N/A           |   |
| 2-Chlorophenol-d4            | 745.76                | 80.3                        | 31 - 120        | 8.729  | 8.931857                 | -0.2029 | N/A           |   |
| 1,2-Dichlorobenzene-d4       | 497.17                | 73.2                        | 32 - 120        | 9.449  | 9.659143                 | -0.2101 | N/A           |   |
| Nitrobenzene-d5              | 497.17                | 76.8                        | 30 - 120        | 10.187 | 10.389                   | -0.2020 | N/A           |   |
| 2-Fluorobiphenyl             | 497.17                | 81.5                        | 35 - 120        | 13.8   | 13.982                   | -0.1820 | N/A           |   |
| 2,4,6-Tribromophenol         | 745.76                | 116                         | 24 - 134        | 16.854 | 17.02143                 | -0.1674 | N/A           |   |
| p-Terphenyl-d14              | 497.17                | 83.3                        | 37 - 120        | 21.441 | 21.54257                 | -0.1016 | N/A           |   |
| <b>23A0179-09RE1 (Solid)</b> |                       | Lab File ID: NT1003222325.D |                 |        | Analyzed: 03/23/23 08:17 |         |               |   |
| 2-Fluorophenol               | 749.24                | 52.1                        | 27 - 120        | 6.866  | 7.067714                 | -0.2017 | N/A           |   |
| Phenol-d5                    | 749.24                | 52.8                        | 29 - 120        | 8.458  | 8.638143                 | -0.1801 | N/A           |   |
| 2-Chlorophenol-d4            | 749.24                | 55.6                        | 31 - 120        | 8.728  | 8.931857                 | -0.2039 | N/A           |   |
| 1,2-Dichlorobenzene-d4       | 499.49                | 51.4                        | 32 - 120        | 9.441  | 9.659143                 | -0.2181 | N/A           |   |
| Nitrobenzene-d5              | 499.49                | 54.1                        | 30 - 120        | 10.179 | 10.389                   | -0.2100 | N/A           |   |
| 2-Fluorobiphenyl             | 499.49                | 56.5                        | 35 - 120        | 13.8   | 13.982                   | -0.1820 | N/A           |   |
| 2,4,6-Tribromophenol         | 749.24                | 78.1                        | 24 - 134        | 16.846 | 17.02143                 | -0.1754 | N/A           |   |
| p-Terphenyl-d14              | 499.49                | 57.5                        | 37 - 120        | 21.44  | 21.54257                 | -0.1026 | N/A           |   |
| <b>23A0179-10RE1 (Solid)</b> |                       | Lab File ID: NT1003222326.D |                 |        | Analyzed: 03/23/23 08:55 |         |               |   |
| 2-Fluorophenol               | 748.02                | 74.8                        | 27 - 120        | 6.859  | 7.067714                 | -0.2087 | N/A           |   |
| Phenol-d5                    | 748.02                | 76.9                        | 29 - 120        | 8.451  | 8.638143                 | -0.1871 | N/A           |   |
| 2-Chlorophenol-d4            | 748.02                | 80.8                        | 31 - 120        | 8.729  | 8.931857                 | -0.2029 | N/A           |   |
| 1,2-Dichlorobenzene-d4       | 498.68                | 73.6                        | 32 - 120        | 9.442  | 9.659143                 | -0.2171 | N/A           |   |
| Nitrobenzene-d5              | 498.68                | 77.4                        | 30 - 120        | 10.179 | 10.389                   | -0.2100 | N/A           |   |
| 2-Fluorobiphenyl             | 498.68                | 82.6                        | 35 - 120        | 13.8   | 13.982                   | -0.1820 | N/A           |   |
| 2,4,6-Tribromophenol         | 748.02                | 114                         | 24 - 134        | 16.854 | 17.02143                 | -0.1674 | N/A           |   |
| p-Terphenyl-d14              | 498.68                | 84.4                        | 37 - 120        | 21.441 | 21.54257                 | -0.1016 | N/A           |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLC0397  
Calibration: GC00046

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT10  
Calibration Date: 03/16/2023

| Surrogate Compound  | Spike Level ug/kg dry | % Recovery | Recovery Limits | RT     | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|---|-----------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| <b>23A0179-11RE1 (Solid)</b> Lab File ID: NT1003222327.D Analyzed: 03/23/23 09:33 |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol  | 748.70                | 76.2       | 27 - 120        | 6.867  | 7.067714            | -0.2007 | N/A           |   |
| Phenol-d5   | 748.70                | 77.7       | 29 - 120        | 8.458  | 8.638143            | -0.1801 | N/A           |   |
| 2-Chlorophenol-d4   | 748.70                | 82.2       | 31 - 120        | 8.729  | 8.931857            | -0.2029 | N/A           |   |
| 1,2-Dichlorobenzene-d4  | 499.13                | 74.0       | 32 - 120        | 9.449  | 9.659143            | -0.2101 | N/A           |   |
| Nitrobenzene-d5   | 499.13                | 77.6       | 30 - 120        | 10.187 | 10.389              | -0.2020 | N/A           |   |
| 2-Fluorobiphenyl  | 499.13                | 84.0       | 35 - 120        | 13.8   | 13.982              | -0.1820 | N/A           |   |
| 2,4,6-Tribromophenol  | 748.70                | 117        | 24 - 134        | 16.854 | 17.02143            | -0.1674 | N/A           |   |
| p-Terphenyl-d14   | 499.13                | 84.7       | 37 - 120        | 21.441 | 21.54257            | -0.1016 | N/A           |   |
| <b>23A0179-12RE1 (Solid)</b> Lab File ID: NT1003222328.D Analyzed: 03/23/23 10:11 |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol  | 749.76                | 71.7       | 27 - 120        | 6.867  | 7.067714            | -0.2007 | N/A           |   |
| Phenol-d5   | 749.76                | 73.2       | 29 - 120        | 8.458  | 8.638143            | -0.1801 | N/A           |   |
| 2-Chlorophenol-d4   | 749.76                | 78.9       | 31 - 120        | 8.728  | 8.931857            | -0.2039 | N/A           |   |
| 1,2-Dichlorobenzene-d4  | 499.84                | 70.6       | 32 - 120        | 9.449  | 9.659143            | -0.2101 | N/A           |   |
| Nitrobenzene-d5   | 499.84                | 74.0       | 30 - 120        | 10.187 | 10.389              | -0.2020 | N/A           |   |
| 2-Fluorobiphenyl  | 499.84                | 80.5       | 35 - 120        | 13.8   | 13.982              | -0.1820 | N/A           |   |
| 2,4,6-Tribromophenol  | 749.76                | 112        | 24 - 134        | 16.854 | 17.02143            | -0.1674 | N/A           |   |
| p-Terphenyl-d14   | 499.84                | 79.9       | 37 - 120        | 21.44  | 21.54257            | -0.1026 | N/A           |   |
| <b>SLC0397-CCV1 (Solid)</b> Lab File ID: NT1003222333.D Analyzed: 03/23/23 13:22  |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol  | 7.5000                | 100        | 50 - 150        | 6.859  | 7.067714            | -0.2087 | N/A           |   |
| Phenol-d5   | 7.5000                | 101        | 50 - 150        | 8.451  | 8.638143            | -0.1871 | N/A           |   |
| 2-Chlorophenol-d4   | 7.5000                | 102        | 50 - 150        | 8.721  | 8.931857            | -0.2109 | N/A           |   |
| 1,2-Dichlorobenzene-d4  | 5.0000                | 97.7       | 50 - 150        | 9.442  | 9.659143            | -0.2171 | N/A           |   |
| Nitrobenzene-d5   | 5.0000                | 98.0       | 50 - 150        | 10.179 | 10.389              | -0.2100 | N/A           |   |
| 2-Fluorobiphenyl  | 5.0000                | 97.1       | 50 - 150        | 13.8   | 13.982              | -0.1820 | N/A           |   |
| 2,4,6-Tribromophenol  | 7.5000                | 115        | 50 - 150        | 16.846 | 17.02143            | -0.1754 | N/A           |   |
| p-Terphenyl-d14   | 5.0000                | 90.1       | 50 - 150        | 21.425 | 21.54257            | -0.1176 | N/A           |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLB0374

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT14  
Calibration: GC00033

| Internal Standard                          | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|--|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Initial Cal Blank (SLB0374-ICB1 )</b>   |          | (Water) | Lab File ID: NT1423022811.D |              |        | Analyzed: 02/28/23 17:04 |         |               |   |
| 1,4-Dichlorobenzene-d4                     | 117167   | 8.207   | 114351                      | 8.214        | 102    | 50 - 200                 | -0.007  | +/-0.50       |   |
| Naphthalene-d8                             | 407027   | 10.657  | 408655                      | 10.665       | 100    | 50 - 200                 | -0.008  | +/-0.50       |   |
| Acenaphthene-d10                           | 239853   | 14.24   | 254000                      | 14.247       | 94     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Phenanthrene-d10                           | 473405   | 17.245  | 490626                      | 17.253       | 96     | 50 - 200                 | -0.008  | +/-0.50       |   |
| Chrysene-d12                               | 364221   | 22.361  | 390400                      | 22.376       | 93     | 50 - 200                 | -0.015  | +/-0.50       |   |
| Di-n-Octylphthalate-d4                     | 366453   | 23.476  | 500829                      | 23.483       | 73     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Perylene-d12                               | 358535   | 24.707  | 375675                      | 24.722       | 95     | 50 - 200                 | -0.015  | +/-0.50       |   |
| <b>Secondary Cal Check (SLB0374-SCV1 )</b> |          | (Water) | Lab File ID: NT1423022812.D |              |        | Analyzed: 02/28/23 17:41 |         |               |   |
| 1,4-Dichlorobenzene-d4                     | 105595   | 8.207   | 114351                      | 8.214        | 92     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Naphthalene-d8                             | 379346   | 10.665  | 408655                      | 10.665       | 93     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                           | 230482   | 14.247  | 254000                      | 14.247       | 91     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                           | 458109   | 17.245  | 490626                      | 17.253       | 93     | 50 - 200                 | -0.008  | +/-0.50       |   |
| Chrysene-d12                               | 351284   | 22.368  | 390400                      | 22.376       | 90     | 50 - 200                 | -0.008  | +/-0.50       |   |
| Di-n-Octylphthalate-d4                     | 422614   | 23.476  | 500829                      | 23.483       | 84     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Perylene-d12                               | 336637   | 24.714  | 375675                      | 24.722       | 90     | 50 - 200                 | -0.008  | +/-0.50       |   |
| <b>Initial Cal Check (SLB0374-ICV1 )</b>   |          | (Water) | Lab File ID: NT1423022813.D |              |        | Analyzed: 03/01/23 08:50 |         |               |   |
| 1,4-Dichlorobenzene-d4                     | 130493   | 8.191   | 130493                      | 8.191        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                             | 468517   | 10.642  | 468517                      | 10.642       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                           | 287099   | 14.232  | 287099                      | 14.232       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                           | 562063   | 17.237  | 562063                      | 17.237       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                               | 437959   | 22.353  | 437959                      | 22.353       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                     | 562397   | 23.468  | 562397                      | 23.468       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Perylene-d12                               | 412943   | 24.699  | 412943                      | 24.699       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>Initial Cal Check (SLB0374-ICV2 )</b>   |          | (Water) | Lab File ID: NT1423022821.D |              |        | Analyzed: 03/01/23 13:39 |         |               |   |
| 1,4-Dichlorobenzene-d4                     | 125853   | 8.191   | 125853                      | 8.191        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                             | 454961   | 10.649  | 454961                      | 10.649       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                           | 273779   | 14.232  | 273779                      | 14.232       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                           | 520384   | 17.237  | 520384                      | 17.237       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                               | 399183   | 22.361  | 399183                      | 22.361       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                     | 602810   | 23.468  | 602810                      | 23.468       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Perylene-d12                               | 478887   | 24.707  | 478887                      | 24.707       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor OEA, LLC  
Sequence: SLB0374

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT14  
Calibration: GC00033

| Internal Standard                   | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|-------------------------------------|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Low Cal Check (SLB0374-LCV1)</b> |          | (Water) | Lab File ID: NT1423022823.D |              |        | Analyzed: 03/01/23 14:51 |         |               |   |
| 1,4-Dichlorobenzene-d4              | 114717   | 8.191   | 125853                      | 8.191        | 91     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                      | 407764   | 10.649  | 454961                      | 10.649       | 90     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                    | 232149   | 14.232  | 273779                      | 14.232       | 85     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                    | 434349   | 17.237  | 520384                      | 17.237       | 83     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                        | 321275   | 22.361  | 399183                      | 22.361       | 80     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4              | 479418   | 23.468  | 602810                      | 23.468       | 80     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Perylene-d12                        | 396889   | 24.706  | 478887                      | 24.707       | 83     | 50 - 200                 | -0.001  | +/-0.50       |   |
| <b>Low Cal Check (SLB0374-LCV2)</b> |          | (Water) | Lab File ID: NT1423022825.D |              |        | Analyzed: 03/01/23 16:04 |         |               |   |
| 1,4-Dichlorobenzene-d4              | 130297   | 8.191   | 125853                      | 8.191        | 104    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                      | 458645   | 10.642  | 454961                      | 10.649       | 101    | 50 - 200                 | -0.007  | +/-0.50       |   |
| Acenaphthene-d10                    | 264644   | 14.232  | 273779                      | 14.232       | 97     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                    | 503378   | 17.237  | 520384                      | 17.237       | 97     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                        | 366987   | 22.361  | 399183                      | 22.361       | 92     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4              | 534079   | 23.468  | 602810                      | 23.468       | 89     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Perylene-d12                        | 433681   | 24.706  | 478887                      | 24.707       | 91     | 50 - 200                 | -0.001  | +/-0.50       |   |
| <b>Blank (BLA0557-BLK1)</b>         |          | (Solid) | Lab File ID: NT1423022826.D |              |        | Analyzed: 03/01/23 16:40 |         |               |   |
| 1,4-Dichlorobenzene-d4              | 119737   | 8.191   | 125853                      | 8.191        | 95     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                      | 429209   | 10.642  | 408655                      | 10.665       | 105    | 50 - 200                 | -0.023  | +/-0.50       |   |
| Acenaphthene-d10                    | 246224   | 14.232  | 246020                      | 14.239       | 100    | 50 - 200                 | -0.007  | +/-0.50       |   |
| Phenanthrene-d10                    | 459727   | 17.237  | 448598                      | 17.245       | 102    | 50 - 200                 | -0.008  | +/-0.50       |   |
| Chrysene-d12                        | 327323   | 22.361  | 390400                      | 22.376       | 84     | 50 - 200                 | -0.015  | +/-0.50       |   |
| Di-n-Octylphthalate-d4              | 489283   | 23.468  | 562397                      | 23.468       | 87     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Perylene-d12                        | 397979   | 24.707  | 357819                      | 24.714       | 111    | 50 - 200                 | -0.007  | +/-0.50       |   |
| <b>LCS (BLA0557-BS1)</b>            |          | (Solid) | Lab File ID: NT1423022827.D |              |        | Analyzed: 03/01/23 17:16 |         |               |   |
| 1,4-Dichlorobenzene-d4              | 115317   | 8.191   | 125853                      | 8.191        | 92     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                      | 411740   | 10.649  | 408655                      | 10.665       | 101    | 50 - 200                 | -0.016  | +/-0.50       |   |
| Acenaphthene-d10                    | 247058   | 14.232  | 246020                      | 14.239       | 100    | 50 - 200                 | -0.007  | +/-0.50       |   |
| Phenanthrene-d10                    | 455912   | 17.237  | 448598                      | 17.245       | 102    | 50 - 200                 | -0.008  | +/-0.50       |   |
| Chrysene-d12                        | 347971   | 22.361  | 390400                      | 22.376       | 89     | 50 - 200                 | -0.015  | +/-0.50       |   |
| Di-n-Octylphthalate-d4              | 520496   | 23.468  | 562397                      | 23.468       | 93     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Perylene-d12                        | 413395   | 24.707  | 357819                      | 24.714       | 116    | 50 - 200                 | -0.007  | +/-0.50       |   |





**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor OEA, LLC  
Sequence: SLB0374

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT14  
Calibration: GC00033

| Internal Standard                 | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|-----------------------------------|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>LCS Dup (BLA0557-BSD1 )</b>    |          | (Solid) | Lab File ID: NT1423022828.D |              |        | Analyzed: 03/01/23 17:52 |         |               |   |
| 1,4-Dichlorobenzene-d4            | 113200   | 8.191   | 125853                      | 8.191        | 90     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                    | 411152   | 10.649  | 408655                      | 10.665       | 101    | 50 - 200                 | -0.016  | +/-0.50       |   |
| Acenaphthene-d10                  | 242424   | 14.232  | 246020                      | 14.239       | 99     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Phenanthrene-d10                  | 456525   | 17.237  | 448598                      | 17.245       | 102    | 50 - 200                 | -0.008  | +/-0.50       |   |
| Chrysene-d12                      | 343644   | 22.361  | 390400                      | 22.376       | 88     | 50 - 200                 | -0.015  | +/-0.50       |   |
| Di-n-Octylphthalate-d4            | 509245   | 23.468  | 562397                      | 23.468       | 91     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Perylene-d12                      | 400872   | 24.706  | 357819                      | 24.714       | 112    | 50 - 200                 | -0.008  | +/-0.50       |   |
| <b>Reference (BLA0557-SRM1 )</b>  |          | (Solid) | Lab File ID: NT1423022829.D |              |        | Analyzed: 03/01/23 18:28 |         |               |   |
| 1,4-Dichlorobenzene-d4            | 118527   | 8.191   | 125853                      | 8.191        | 94     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                    | 431802   | 10.642  | 408655                      | 10.665       | 106    | 50 - 200                 | -0.023  | +/-0.50       |   |
| Acenaphthene-d10                  | 245761   | 14.232  | 246020                      | 14.239       | 100    | 50 - 200                 | -0.007  | +/-0.50       |   |
| Phenanthrene-d10                  | 473833   | 17.237  | 448598                      | 17.245       | 106    | 50 - 200                 | -0.008  | +/-0.50       |   |
| Chrysene-d12                      | 346329   | 22.361  | 390400                      | 22.376       | 89     | 50 - 200                 | -0.015  | +/-0.50       |   |
| Di-n-Octylphthalate-d4            | 532201   | 23.468  | 562397                      | 23.468       | 95     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Perylene-d12                      | 414695   | 24.707  | 357819                      | 24.714       | 116    | 50 - 200                 | -0.007  | +/-0.50       |   |
| <b>LDW23-SS1277 (23A0179-01 )</b> |          | (Solid) | Lab File ID: NT1423022830.D |              |        | Analyzed: 03/01/23 19:04 |         |               |   |
| 1,4-Dichlorobenzene-d4            | 119238   | 8.191   | 125853                      | 8.191        | 95     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                    | 432560   | 10.642  | 408655                      | 10.665       | 106    | 50 - 200                 | -0.023  | +/-0.50       |   |
| Acenaphthene-d10                  | 248523   | 14.232  | 246020                      | 14.239       | 101    | 50 - 200                 | -0.007  | +/-0.50       |   |
| Phenanthrene-d10                  | 466029   | 17.237  | 448598                      | 17.245       | 104    | 50 - 200                 | -0.008  | +/-0.50       |   |
| Chrysene-d12                      | 374382   | 22.361  | 390400                      | 22.376       | 96     | 50 - 200                 | -0.015  | +/-0.50       |   |
| Di-n-Octylphthalate-d4            | 560278   | 23.475  | 562397                      | 23.468       | 100    | 50 - 200                 | 0.007   | +/-0.50       |   |
| Perylene-d12                      | 421669   | 24.722  | 357819                      | 24.714       | 118    | 50 - 200                 | 0.008   | +/-0.50       |   |
| <b>LDW23-SS1271 (23A0179-02 )</b> |          | (Solid) | Lab File ID: NT1423022831.D |              |        | Analyzed: 03/01/23 19:40 |         |               |   |
| 1,4-Dichlorobenzene-d4            | 119277   | 8.191   | 125853                      | 8.191        | 95     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                    | 432454   | 10.642  | 408655                      | 10.665       | 106    | 50 - 200                 | -0.023  | +/-0.50       |   |
| Acenaphthene-d10                  | 252217   | 14.232  | 246020                      | 14.239       | 103    | 50 - 200                 | -0.007  | +/-0.50       |   |
| Phenanthrene-d10                  | 481102   | 17.245  | 448598                      | 17.245       | 107    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                      | 372794   | 22.369  | 390400                      | 22.376       | 95     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Di-n-Octylphthalate-d4            | 566258   | 23.476  | 562397                      | 23.468       | 101    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                      | 416230   | 24.722  | 357819                      | 24.714       | 116    | 50 - 200                 | 0.008   | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor OEA, LLC  
Sequence: SLB0374

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT14  
Calibration: GC00033

| Internal Standard                 | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|-----------------------------------|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>LDW23-SS1266 (23A0179-03 )</b> |          | (Solid) | Lab File ID: NT1423022832.D |              |        | Analyzed: 03/01/23 20:16 |         |               |   |
| 1,4-Dichlorobenzene-d4            | 115524   | 8.191   | 125853                      | 8.191        | 92     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                    | 421103   | 10.649  | 408655                      | 10.665       | 103    | 50 - 200                 | -0.016  | +/-0.50       |   |
| Acenaphthene-d10                  | 239203   | 14.232  | 246020                      | 14.239       | 97     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Phenanthrene-d10                  | 458791   | 17.245  | 448598                      | 17.245       | 102    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                      | 370872   | 22.368  | 390400                      | 22.376       | 95     | 50 - 200                 | -0.008  | +/-0.50       |   |
| Di-n-Octylphthalate-d4            | 549356   | 23.476  | 562397                      | 23.468       | 98     | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                      | 393621   | 24.722  | 357819                      | 24.714       | 110    | 50 - 200                 | 0.008   | +/-0.50       |   |
| <b>LDW23-SS1248 (23A0179-04 )</b> |          | (Solid) | Lab File ID: NT1423022833.D |              |        | Analyzed: 03/01/23 20:52 |         |               |   |
| 1,4-Dichlorobenzene-d4            | 116979   | 8.191   | 125853                      | 8.191        | 93     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                    | 423995   | 10.65   | 408655                      | 10.665       | 104    | 50 - 200                 | -0.015  | +/-0.50       |   |
| Acenaphthene-d10                  | 244587   | 14.232  | 246020                      | 14.239       | 99     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Phenanthrene-d10                  | 462250   | 17.245  | 448598                      | 17.245       | 103    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                      | 384116   | 22.369  | 390400                      | 22.376       | 98     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Di-n-Octylphthalate-d4            | 562558   | 23.476  | 562397                      | 23.468       | 100    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                      | 379708   | 24.73   | 357819                      | 24.714       | 106    | 50 - 200                 | 0.016   | +/-0.50       |   |
| <b>LDW23-SS1239 (23A0179-05 )</b> |          | (Solid) | Lab File ID: NT1423022834.D |              |        | Analyzed: 03/01/23 21:28 |         |               |   |
| 1,4-Dichlorobenzene-d4            | 112666   | 8.191   | 125853                      | 8.191        | 90     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                    | 413748   | 10.65   | 408655                      | 10.665       | 101    | 50 - 200                 | -0.015  | +/-0.50       |   |
| Acenaphthene-d10                  | 238289   | 14.232  | 246020                      | 14.239       | 97     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Phenanthrene-d10                  | 453532   | 17.245  | 448598                      | 17.245       | 101    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                      | 360184   | 22.369  | 390400                      | 22.376       | 92     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Di-n-Octylphthalate-d4            | 547319   | 23.476  | 562397                      | 23.468       | 97     | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                      | 366272   | 24.722  | 357819                      | 24.714       | 102    | 50 - 200                 | 0.008   | +/-0.50       |   |
| <b>LDW23-SS1213 (23A0179-06 )</b> |          | (Solid) | Lab File ID: NT1423022835.D |              |        | Analyzed: 03/01/23 22:04 |         |               |   |
| 1,4-Dichlorobenzene-d4            | 110602   | 8.191   | 125853                      | 8.191        | 88     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                    | 406761   | 10.65   | 408655                      | 10.665       | 100    | 50 - 200                 | -0.015  | +/-0.50       |   |
| Acenaphthene-d10                  | 233719   | 14.232  | 246020                      | 14.239       | 95     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Phenanthrene-d10                  | 442539   | 17.245  | 448598                      | 17.245       | 99     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                      | 371233   | 22.376  | 390400                      | 22.376       | 95     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4            | 549387   | 23.484  | 562397                      | 23.468       | 98     | 50 - 200                 | 0.016   | +/-0.50       |   |
| Perylene-d12                      | 341558   | 24.73   | 357819                      | 24.714       | 95     | 50 - 200                 | 0.016   | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor OEA, LLC  
Sequence: SLB0374

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT14  
Calibration: GC00033

| Internal Standard                       | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|---|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Initial Cal Check (SLB0374-ICV3)</b> |          | (Water) | Lab File ID: NT1423022836.D |              |        | Analyzed: 03/01/23 22:40 |         |               |   |
| 1,4-Dichlorobenzene-d4                  | 115350   | 8.199   | 115350                      | 8.199        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                          | 415895   | 10.649  | 415895                      | 10.649       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                        | 246020   | 14.239  | 246020                      | 14.239       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                        | 448598   | 17.245  | 448598                      | 17.245       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                            | 373978   | 22.368  | 373978                      | 22.368       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                  | 541572   | 23.476  | 541572                      | 23.476       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Perylene-d12                            | 357819   | 24.714  | 357819                      | 24.714       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>Low Cal Check (SLB0374-LCV3)</b>     |          | (Water) | Lab File ID: NT1423022838.D |              |        | Analyzed: 03/01/23 23:52 |         |               |   |
| 1,4-Dichlorobenzene-d4                  | 114387   | 8.199   | 115350                      | 8.199        | 99     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                          | 404965   | 10.649  | 415895                      | 10.649       | 97     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                        | 227510   | 14.232  | 246020                      | 14.239       | 92     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Phenanthrene-d10                        | 416834   | 17.245  | 448598                      | 17.245       | 93     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                            | 340670   | 22.361  | 373978                      | 22.368       | 91     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Di-n-Octylphthalate-d4                  | 485089   | 23.468  | 541572                      | 23.476       | 90     | 50 - 200                 | -0.008  | +/-0.50       |   |
| Perylene-d12                            | 315652   | 24.707  | 357819                      | 24.714       | 88     | 50 - 200                 | -0.007  | +/-0.50       |   |
| <b>Low Cal Check (SLB0374-LCV4)</b>     |          | (Water) | Lab File ID: NT1423022839.D |              |        | Analyzed: 03/02/23 00:28 |         |               |   |
| 1,4-Dichlorobenzene-d4                  | 113866   | 8.191   | 115350                      | 8.199        | 99     | 50 - 200                 | -0.008  | +/-0.50       |   |
| Naphthalene-d8                          | 401641   | 10.65   | 415895                      | 10.649       | 97     | 50 - 200                 | 0.001   | +/-0.50       |   |
| Acenaphthene-d10                        | 232085   | 14.232  | 246020                      | 14.239       | 94     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Phenanthrene-d10                        | 421769   | 17.238  | 448598                      | 17.245       | 94     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Chrysene-d12                            | 338375   | 22.361  | 373978                      | 22.368       | 90     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Di-n-Octylphthalate-d4                  | 478625   | 23.468  | 541572                      | 23.476       | 88     | 50 - 200                 | -0.008  | +/-0.50       |   |
| Perylene-d12                            | 315661   | 24.715  | 357819                      | 24.714       | 88     | 50 - 200                 | 0.001   | +/-0.50       |   |
| <b>LDW23-SS1200 (23A0179-07)</b>        |          | (Solid) | Lab File ID: NT1423022840.D |              |        | Analyzed: 03/02/23 01:03 |         |               |   |
| 1,4-Dichlorobenzene-d4                  | 113345   | 8.191   | 125853                      | 8.191        | 90     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                          | 407490   | 10.65   | 408655                      | 10.665       | 100    | 50 - 200                 | -0.015  | +/-0.50       |   |
| Acenaphthene-d10                        | 237925   | 14.232  | 246020                      | 14.239       | 97     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Phenanthrene-d10                        | 446581   | 17.245  | 448598                      | 17.245       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                            | 349621   | 22.369  | 390400                      | 22.376       | 90     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Di-n-Octylphthalate-d4                  | 514994   | 23.476  | 562397                      | 23.468       | 92     | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                            | 323654   | 24.722  | 357819                      | 24.714       | 90     | 50 - 200                 | 0.008   | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor OEA, LLC  
Sequence: SLB0374

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT14  
Calibration: GC00033

| Internal Standard                        | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|--|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>LDW23-SS1178 (23A0179-08 )</b>        |          | (Solid) | Lab File ID: NT1423022841.D |              |        | Analyzed: 03/02/23 01:39 |         |               |   |
| 1,4-Dichlorobenzene-d4                   | 110627   | 8.199   | 125853                      | 8.191        | 88     | 50 - 200                 | 0.008   | +/-0.50       |   |
| Naphthalene-d8                           | 415675   | 10.649  | 408655                      | 10.665       | 102    | 50 - 200                 | -0.016  | +/-0.50       |   |
| Acenaphthene-d10                         | 236007   | 14.239  | 246020                      | 14.239       | 96     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                         | 446361   | 17.245  | 448598                      | 17.245       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                             | 373421   | 22.376  | 390400                      | 22.376       | 96     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                   | 555260   | 23.483  | 562397                      | 23.468       | 99     | 50 - 200                 | 0.015   | +/-0.50       |   |
| Perylene-d12                             | 329916   | 24.73   | 357819                      | 24.714       | 92     | 50 - 200                 | 0.016   | +/-0.50       |   |
| <b>LDW23-SS1039 (23A0179-11 )</b>        |          | (Solid) | Lab File ID: NT1423022842.D |              |        | Analyzed: 03/02/23 02:15 |         |               |   |
| 1,4-Dichlorobenzene-d4                   | 111897   | 8.199   | 125853                      | 8.191        | 89     | 50 - 200                 | 0.008   | +/-0.50       |   |
| Naphthalene-d8                           | 409099   | 10.649  | 408655                      | 10.665       | 100    | 50 - 200                 | -0.016  | +/-0.50       |   |
| Acenaphthene-d10                         | 236278   | 14.239  | 246020                      | 14.239       | 96     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                         | 442785   | 17.253  | 448598                      | 17.245       | 99     | 50 - 200                 | 0.008   | +/-0.50       |   |
| Chrysene-d12                             | 383564   | 22.384  | 390400                      | 22.376       | 98     | 50 - 200                 | 0.008   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                   | 565245   | 23.483  | 562397                      | 23.468       | 101    | 50 - 200                 | 0.015   | +/-0.50       |   |
| Perylene-d12                             | 309313   | 24.738  | 357819                      | 24.714       | 86     | 50 - 200                 | 0.024   | +/-0.50       |   |
| <b>LDW23-SS1007 (23A0179-12 )</b>        |          | (Solid) | Lab File ID: NT1423022843.D |              |        | Analyzed: 03/02/23 02:51 |         |               |   |
| 1,4-Dichlorobenzene-d4                   | 109867   | 8.199   | 125853                      | 8.191        | 87     | 50 - 200                 | 0.008   | +/-0.50       |   |
| Naphthalene-d8                           | 405952   | 10.65   | 408655                      | 10.665       | 99     | 50 - 200                 | -0.015  | +/-0.50       |   |
| Acenaphthene-d10                         | 230944   | 14.24   | 246020                      | 14.239       | 94     | 50 - 200                 | 0.001   | +/-0.50       |   |
| Phenanthrene-d10                         | 437765   | 17.253  | 448598                      | 17.245       | 98     | 50 - 200                 | 0.008   | +/-0.50       |   |
| Chrysene-d12                             | 374619   | 22.376  | 390400                      | 22.376       | 96     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                   | 548577   | 23.483  | 562397                      | 23.468       | 98     | 50 - 200                 | 0.015   | +/-0.50       |   |
| Perylene-d12                             | 314304   | 24.738  | 357819                      | 24.714       | 88     | 50 - 200                 | 0.024   | +/-0.50       |   |
| <b>Initial Cal Check (SLB0374-ICV4 )</b> |          | (Water) | Lab File ID: NT1423022848.D |              |        | Analyzed: 03/02/23 05:52 |         |               |   |
| 1,4-Dichlorobenzene-d4                   | 116519   | 8.207   | 116519                      | 8.207        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                           | 429090   | 10.665  | 429090                      | 10.665       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                         | 250637   | 14.247  | 250637                      | 14.247       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                         | 458117   | 17.253  | 458117                      | 17.253       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                             | 393468   | 22.376  | 393468                      | 22.376       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                   | 572636   | 23.483  | 572636                      | 23.483       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Perylene-d12                             | 283320   | 24.73   | 283320                      | 24.73        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0374

Instrument: NT14

Calibration: GC00033

| Internal Standard                   | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|-------------------------------------|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Low Cal Check (SLB0374-LCV5)</b> |          | (Water) | Lab File ID: NT1423022850.D |              |        | Analyzed: 03/02/23 07:04 |         |               |   |
| 1,4-Dichlorobenzene-d4              | 115459   | 8.207   | 116519                      | 8.207        | 99     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                      | 409877   | 10.657  | 429090                      | 10.665       | 96     | 50 - 200                 | -0.008  | +/-0.50       |   |
| Acenaphthene-d10                    | 230328   | 14.247  | 250637                      | 14.247       | 92     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                    | 417754   | 17.253  | 458117                      | 17.253       | 91     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                        | 352830   | 22.376  | 393468                      | 22.376       | 90     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4              | 499736   | 23.483  | 572636                      | 23.483       | 87     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Perylene-d12                        | 239484   | 24.73   | 283320                      | 24.73        | 85     | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>Low Cal Check (SLB0374-LCV6)</b> |          | (Water) | Lab File ID: NT1423022851.D |              |        | Analyzed: 03/02/23 07:40 |         |               |   |
| 1,4-Dichlorobenzene-d4              | 111416   | 8.207   | 116519                      | 8.207        | 96     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                      | 403388   | 10.657  | 429090                      | 10.665       | 94     | 50 - 200                 | -0.008  | +/-0.50       |   |
| Acenaphthene-d10                    | 226130   | 14.247  | 250637                      | 14.247       | 90     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                    | 411120   | 17.253  | 458117                      | 17.253       | 90     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                        | 340331   | 22.369  | 393468                      | 22.376       | 86     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Di-n-Octylphthalate-d4              | 479730   | 23.476  | 572636                      | 23.483       | 84     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Perylene-d12                        | 240961   | 24.722  | 283320                      | 24.73        | 85     | 50 - 200                 | -0.008  | +/-0.50       |   |
| <b>LDW23-SS1171 (23A0179-09)</b>    |          | (Solid) | Lab File ID: NT1423022852.D |              |        | Analyzed: 03/02/23 08:16 |         |               |   |
| 1,4-Dichlorobenzene-d4              | 107119   | 8.207   | 125853                      | 8.191        | 85     | 50 - 200                 | 0.016   | +/-0.50       |   |
| Naphthalene-d8                      | 388462   | 10.657  | 408655                      | 10.665       | 95     | 50 - 200                 | -0.008  | +/-0.50       |   |
| Acenaphthene-d10                    | 221798   | 14.24   | 246020                      | 14.239       | 90     | 50 - 200                 | 0.001   | +/-0.50       |   |
| Phenanthrene-d10                    | 408625   | 17.253  | 448598                      | 17.245       | 91     | 50 - 200                 | 0.008   | +/-0.50       |   |
| Chrysene-d12                        | 328051   | 22.369  | 390400                      | 22.376       | 84     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Di-n-Octylphthalate-d4              | 495620   | 23.476  | 562397                      | 23.468       | 88     | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                        | 258014   | 24.73   | 357819                      | 24.714       | 72     | 50 - 200                 | 0.016   | +/-0.50       |   |
| <b>LDW23-SS1112 (23A0179-10)</b>    |          | (Solid) | Lab File ID: NT1423022853.D |              |        | Analyzed: 03/02/23 08:53 |         |               |   |
| 1,4-Dichlorobenzene-d4              | 108921   | 8.206   | 125853                      | 8.191        | 87     | 50 - 200                 | 0.015   | +/-0.50       |   |
| Naphthalene-d8                      | 388732   | 10.657  | 408655                      | 10.665       | 95     | 50 - 200                 | -0.008  | +/-0.50       |   |
| Acenaphthene-d10                    | 222640   | 14.239  | 246020                      | 14.239       | 90     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                    | 407717   | 17.253  | 448598                      | 17.245       | 91     | 50 - 200                 | 0.008   | +/-0.50       |   |
| Chrysene-d12                        | 337194   | 22.376  | 390400                      | 22.376       | 86     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4              | 490020   | 23.475  | 562397                      | 23.468       | 87     | 50 - 200                 | 0.007   | +/-0.50       |   |
| Perylene-d12                        | 247492   | 24.73   | 357819                      | 24.714       | 69     | 50 - 200                 | 0.016   | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0374

Instrument: NT14

Calibration: GC00033

| Internal Standard                       | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|---|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Matrix Spike (BLA0557-MS1)</b>       |          | (Solid) | Lab File ID: NT1423022854.D |              |        | Analyzed: 03/02/23 09:29 |         |               |   |
| 1,4-Dichlorobenzene-d4                  | 108236   | 8.199   | 125853                      | 8.191        | 86     | 50 - 200                 | 0.008   | +/-0.50       |   |
| Naphthalene-d8                          | 386639   | 10.657  | 408655                      | 10.665       | 95     | 50 - 200                 | -0.008  | +/-0.50       |   |
| Acenaphthene-d10                        | 219298   | 14.24   | 246020                      | 14.239       | 89     | 50 - 200                 | 0.001   | +/-0.50       |   |
| Phenanthrene-d10                        | 399312   | 17.253  | 448598                      | 17.245       | 89     | 50 - 200                 | 0.008   | +/-0.50       |   |
| Chrysene-d12                            | 325344   | 22.369  | 390400                      | 22.376       | 83     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Di-n-Octylphthalate-d4                  | 476401   | 23.476  | 562397                      | 23.468       | 85     | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                            | 222525   | 24.722  | 357819                      | 24.714       | 62     | 50 - 200                 | 0.008   | +/-0.50       |   |
| <b>Matrix Spike Dup (BLA0557-MSD1)</b>  |          | (Solid) | Lab File ID: NT1423022855.D |              |        | Analyzed: 03/02/23 10:05 |         |               |   |
| 1,4-Dichlorobenzene-d4                  | 107306   | 8.199   | 125853                      | 8.191        | 85     | 50 - 200                 | 0.008   | +/-0.50       |   |
| Naphthalene-d8                          | 387922   | 10.657  | 408655                      | 10.665       | 95     | 50 - 200                 | -0.008  | +/-0.50       |   |
| Acenaphthene-d10                        | 222307   | 14.239  | 246020                      | 14.239       | 90     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                        | 411647   | 17.253  | 448598                      | 17.245       | 92     | 50 - 200                 | 0.008   | +/-0.50       |   |
| Chrysene-d12                            | 322410   | 22.368  | 390400                      | 22.376       | 83     | 50 - 200                 | -0.008  | +/-0.50       |   |
| Di-n-Octylphthalate-d4                  | 482430   | 23.476  | 562397                      | 23.468       | 86     | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                            | 228505   | 24.722  | 357819                      | 24.714       | 64     | 50 - 200                 | 0.008   | +/-0.50       |   |
| <b>Calibration Check (SLB0374-CCV1)</b> |          | (Water) | Lab File ID: NT1423022856.D |              |        | Analyzed: 03/02/23 10:41 |         |               |   |
| 1,4-Dichlorobenzene-d4                  | 125192   | 8.207   | 116519                      | 8.207        | 107    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                          | 458907   | 10.657  | 429090                      | 10.665       | 107    | 50 - 200                 | -0.008  | +/-0.50       |   |
| Acenaphthene-d10                        | 271560   | 14.247  | 250637                      | 14.247       | 108    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                        | 498585   | 17.253  | 458117                      | 17.253       | 109    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                            | 404214   | 22.377  | 393468                      | 22.376       | 103    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                  | 582020   | 23.476  | 572636                      | 23.483       | 102    | 50 - 200                 | -0.007  | +/-0.50       |   |
| Perylene-d12                            | 284657   | 24.722  | 283320                      | 24.73        | 100    | 50 - 200                 | -0.008  | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLC0228

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT10  
Calibration: GC00046

| Internal Standard                         | Response | RT      | Reference Response        | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|---|----------|---------|---------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Secondary Cal Check (SLC0228-SCV1)</b> |          | (Solid) | Lab File ID: NT10031511.D |              |        | Analyzed: 03/16/23 02:16 |         |               |   |
| 1,4-Dichlorobenzene-d4                    | 154809   | 9.301   | 171542                    | 9.301        | 90     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                            | 570882   | 11.777  | 624466                    | 11.777       | 91     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                          | 303490   | 15.383  | 337226                    | 15.382       | 90     | 50 - 200                 | 0.001   | +/-0.50       |   |
| Phenanthrene-d10                          | 533431   | 18.42   | 572849                    | 18.419       | 93     | 50 - 200                 | 0.001   | +/-0.50       |   |
| Chrysene-d12                              | 435381   | 23.458  | 347068                    | 23.449       | 125    | 50 - 200                 | 0.009   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                    | 660827   | 24.487  | 500317                    | 24.479       | 132    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                              | 494648   | 26.191  | 421549                    | 26.182       | 117    | 50 - 200                 | 0.009   | +/-0.50       |   |
| <b>Initial Cal Blank (SLC0228-ICB1)</b>   |          | (Solid) | Lab File ID: NT10031512.D |              |        | Analyzed: 03/16/23 02:54 |         |               |   |
| 1,4-Dichlorobenzene-d4                    | 173115   | 9.301   | 171542                    | 9.301        | 101    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                            | 625865   | 11.776  | 624466                    | 11.777       | 100    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Acenaphthene-d10                          | 328712   | 15.382  | 337226                    | 15.382       | 97     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                          | 592693   | 18.419  | 572849                    | 18.419       | 103    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                              | 442208   | 23.449  | 347068                    | 23.449       | 127    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                    | 526309   | 24.479  | 500317                    | 24.479       | 105    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Perylene-d12                              | 499804   | 26.182  | 421549                    | 26.182       | 119    | 50 - 200                 | 0.000   | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLC0397

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT10  
Calibration: GC00046

| Internal Standard                       | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|---|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Initial Cal Check (SLC0397-ICV1)</b> |          | (Solid) | Lab File ID: NT1003222302.D |              |        | Analyzed: 03/22/23 17:42 |         |               |   |
| 1,4-Dichlorobenzene-d4                  | 122478   | 9.084   | 122478                      | 9.084        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                          | 459261   | 11.572  | 459261                      | 11.572       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                        | 264106   | 15.193  | 264106                      | 15.193       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                        | 503255   | 18.253  | 503255                      | 18.253       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                            | 437735   | 23.345  | 437735                      | 23.345       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                  | 700191   | 24.413  | 700191                      | 24.413       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Perylene-d12                            | 499049   | 26.024  | 499049                      | 26.024       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>Low Cal Check (SLC0397-LCV1)</b>     |          | (Solid) | Lab File ID: NT1003222304.D |              |        | Analyzed: 03/22/23 18:59 |         |               |   |
| 1,4-Dichlorobenzene-d4                  | 142022   | 9.085   | 122478                      | 9.084        | 116    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Naphthalene-d8                          | 504872   | 11.572  | 459261                      | 11.572       | 110    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                        | 275869   | 15.193  | 264106                      | 15.193       | 104    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                        | 499862   | 18.245  | 503255                      | 18.253       | 99     | 50 - 200                 | -0.008  | +/-0.50       |   |
| Chrysene-d12                            | 433161   | 23.345  | 437735                      | 23.345       | 99     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                  | 617649   | 24.414  | 700191                      | 24.413       | 88     | 50 - 200                 | 0.001   | +/-0.50       |   |
| Perylene-d12                            | 494952   | 26.024  | 499049                      | 26.024       | 99     | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>Blank (BLC0442-BLK1)</b>             |          | (Solid) | Lab File ID: NT1003222306.D |              |        | Analyzed: 03/22/23 20:16 |         |               |   |
| 1,4-Dichlorobenzene-d4                  | 166416   | 9.084   | 122478                      | 9.084        | 136    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                          | 591408   | 11.572  | 459261                      | 11.572       | 129    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                        | 325327   | 15.193  | 264106                      | 15.193       | 123    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                        | 589824   | 18.245  | 503255                      | 18.253       | 117    | 50 - 200                 | -0.008  | +/-0.50       |   |
| Chrysene-d12                            | 493010   | 23.337  | 437735                      | 23.345       | 113    | 50 - 200                 | -0.008  | +/-0.50       |   |
| Di-n-Octylphthalate-d4                  | 751292   | 24.406  | 700191                      | 24.413       | 107    | 50 - 200                 | -0.007  | +/-0.50       |   |
| Perylene-d12                            | 544575   | 26.024  | 499049                      | 26.024       | 109    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>LCS (BLC0442-BS1)</b>                |          | (Solid) | Lab File ID: NT1003222307.D |              |        | Analyzed: 03/22/23 20:54 |         |               |   |
| 1,4-Dichlorobenzene-d4                  | 154744   | 9.084   | 122478                      | 9.084        | 126    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                          | 572840   | 11.572  | 459261                      | 11.572       | 125    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                        | 327050   | 15.193  | 264106                      | 15.193       | 124    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                        | 608606   | 18.253  | 503255                      | 18.253       | 121    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                            | 516845   | 23.345  | 437735                      | 23.345       | 118    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                  | 860923   | 24.414  | 700191                      | 24.413       | 123    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Perylene-d12                            | 580418   | 26.024  | 499049                      | 26.024       | 116    | 50 - 200                 | 0.000   | +/-0.50       |   |





**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLC0397

Instrument: NT10

Calibration: GC00046

| Internal Standard                    | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|--------------------------------------|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>LCS Dup (BLC0442-BSD1 )</b>       |          | (Solid) | Lab File ID: NT1003222308.D |              |        | Analyzed: 03/22/23 21:32 |         |               |   |
| 1,4-Dichlorobenzene-d4               | 153308   | 9.084   | 122478                      | 9.084        | 125    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                       | 557553   | 11.572  | 459261                      | 11.572       | 121    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                     | 313522   | 15.193  | 264106                      | 15.193       | 119    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                     | 578188   | 18.253  | 503255                      | 18.253       | 115    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                         | 508151   | 23.345  | 437735                      | 23.345       | 116    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4               | 831957   | 24.414  | 700191                      | 24.413       | 119    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Perylene-d12                         | 558473   | 26.024  | 499049                      | 26.024       | 112    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>Reference (BLC0442-SRM1 )</b>     |          | (Solid) | Lab File ID: NT1003222309.D |              |        | Analyzed: 03/22/23 22:10 |         |               |   |
| 1,4-Dichlorobenzene-d4               | 176010   | 9.084   | 122478                      | 9.084        | 144    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                       | 626650   | 11.572  | 459261                      | 11.572       | 136    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                     | 347719   | 15.193  | 264106                      | 15.193       | 132    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                     | 641196   | 18.245  | 503255                      | 18.253       | 127    | 50 - 200                 | -0.008  | +/-0.50       |   |
| Chrysene-d12                         | 540321   | 23.345  | 437735                      | 23.345       | 123    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4               | 939788   | 24.414  | 700191                      | 24.413       | 134    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Perylene-d12                         | 620785   | 26.024  | 499049                      | 26.024       | 124    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>LDW23-SS1277 (23A0179-01RE1 )</b> |          | (Solid) | Lab File ID: NT1003222310.D |              |        | Analyzed: 03/22/23 22:49 |         |               |   |
| 1,4-Dichlorobenzene-d4               | 165652   | 9.084   | 122478                      | 9.084        | 135    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                       | 593120   | 11.572  | 459261                      | 11.572       | 129    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                     | 325756   | 15.193  | 264106                      | 15.193       | 123    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                     | 627650   | 18.252  | 503255                      | 18.253       | 125    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Chrysene-d12                         | 567532   | 23.345  | 437735                      | 23.345       | 130    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4               | 986968   | 24.421  | 700191                      | 24.413       | 141    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                         | 668016   | 26.039  | 499049                      | 26.024       | 134    | 50 - 200                 | 0.015   | +/-0.50       |   |
| <b>LDW23-SS1271 (23A0179-02RE1 )</b> |          | (Solid) | Lab File ID: NT1003222311.D |              |        | Analyzed: 03/22/23 23:27 |         |               |   |
| 1,4-Dichlorobenzene-d4               | 180142   | 9.085   | 122478                      | 9.084        | 147    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Naphthalene-d8                       | 649859   | 11.572  | 459261                      | 11.572       | 142    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                     | 353953   | 15.193  | 264106                      | 15.193       | 134    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                     | 665241   | 18.253  | 503255                      | 18.253       | 132    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                         | 587247   | 23.353  | 437735                      | 23.345       | 134    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Di-n-Octylphthalate-d4               | 1031564  | 24.421  | 700191                      | 24.413       | 147    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                         | 698935   | 26.04   | 499049                      | 26.024       | 140    | 50 - 200                 | 0.016   | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor OEA, LLC  
Sequence: SLC0397

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT10  
Calibration: GC00046

| Internal Standard                    | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|--------------------------------------|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>LDW23-SS1266 (23A0179-03RE1 )</b> |          | (Solid) | Lab File ID: NT1003222312.D |              |        | Analyzed: 03/23/23 00:05 |         |               |   |
| 1,4-Dichlorobenzene-d4               | 173261   | 9.084   | 122478                      | 9.084        | 141    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                       | 629654   | 11.572  | 459261                      | 11.572       | 137    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                     | 344777   | 15.201  | 264106                      | 15.193       | 131    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Phenanthrene-d10                     | 645006   | 18.252  | 503255                      | 18.253       | 128    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Chrysene-d12                         | 581703   | 23.353  | 437735                      | 23.345       | 133    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Di-n-Octylphthalate-d4               | 990496   | 24.421  | 700191                      | 24.413       | 141    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                         | 680067   | 26.047  | 499049                      | 26.024       | 136    | 50 - 200                 | 0.023   | +/-0.50       |   |
| <b>LDW23-SS1248 (23A0179-04RE1 )</b> |          | (Solid) | Lab File ID: NT1003222313.D |              |        | Analyzed: 03/23/23 00:43 |         |               |   |
| 1,4-Dichlorobenzene-d4               | 164835   | 9.085   | 122478                      | 9.084        | 135    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Naphthalene-d8                       | 599493   | 11.572  | 459261                      | 11.572       | 131    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                     | 336367   | 15.201  | 264106                      | 15.193       | 127    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Phenanthrene-d10                     | 643416   | 18.253  | 503255                      | 18.253       | 128    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                         | 572423   | 23.353  | 437735                      | 23.345       | 131    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Di-n-Octylphthalate-d4               | 994537   | 24.421  | 700191                      | 24.413       | 142    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                         | 660096   | 26.047  | 499049                      | 26.024       | 132    | 50 - 200                 | 0.023   | +/-0.50       |   |
| <b>LDW23-SS1239 (23A0179-05RE1 )</b> |          | (Solid) | Lab File ID: NT1003222314.D |              |        | Analyzed: 03/23/23 01:21 |         |               |   |
| 1,4-Dichlorobenzene-d4               | 171604   | 9.085   | 122478                      | 9.084        | 140    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Naphthalene-d8                       | 616135   | 11.572  | 459261                      | 11.572       | 134    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                     | 340623   | 15.201  | 264106                      | 15.193       | 129    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Phenanthrene-d10                     | 630416   | 18.261  | 503255                      | 18.253       | 125    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Chrysene-d12                         | 572980   | 23.353  | 437735                      | 23.345       | 131    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Di-n-Octylphthalate-d4               | 961985   | 24.421  | 700191                      | 24.413       | 137    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                         | 664278   | 26.047  | 499049                      | 26.024       | 133    | 50 - 200                 | 0.023   | +/-0.50       |   |
| <b>LDW23-SS1213 (23A0179-06RE1 )</b> |          | (Solid) | Lab File ID: NT1003222315.D |              |        | Analyzed: 03/23/23 01:59 |         |               |   |
| 1,4-Dichlorobenzene-d4               | 166339   | 9.085   | 122478                      | 9.084        | 136    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Naphthalene-d8                       | 614772   | 11.572  | 459261                      | 11.572       | 134    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                     | 340891   | 15.201  | 264106                      | 15.193       | 129    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Phenanthrene-d10                     | 651012   | 18.261  | 503255                      | 18.253       | 129    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Chrysene-d12                         | 595086   | 23.361  | 437735                      | 23.345       | 136    | 50 - 200                 | 0.016   | +/-0.50       |   |
| Di-n-Octylphthalate-d4               | 979419   | 24.429  | 700191                      | 24.413       | 140    | 50 - 200                 | 0.016   | +/-0.50       |   |
| Perylene-d12                         | 666096   | 26.055  | 499049                      | 26.024       | 133    | 50 - 200                 | 0.031   | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor OEA, LLC  
Sequence: SLC0397

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT10  
Calibration: GC00046

| Internal Standard                        | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|--|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>LDW23-SS1200 (23A0179-07RE1 )</b>     |          | (Solid) | Lab File ID: NT1003222316.D |              |        | Analyzed: 03/23/23 02:37 |         |               |   |
| 1,4-Dichlorobenzene-d4                   | 161086   | 9.085   | 122478                      | 9.084        | 132    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Naphthalene-d8                           | 581202   | 11.572  | 459261                      | 11.572       | 127    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                         | 319968   | 15.201  | 264106                      | 15.193       | 121    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Phenanthrene-d10                         | 603781   | 18.261  | 503255                      | 18.253       | 120    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Chrysene-d12                             | 533437   | 23.353  | 437735                      | 23.345       | 122    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                   | 923370   | 24.421  | 700191                      | 24.413       | 132    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                             | 620378   | 26.047  | 499049                      | 26.024       | 124    | 50 - 200                 | 0.023   | +/-0.50       |   |
| <b>Initial Cal Check (SLC0397-ICV2 )</b> |          | (Solid) | Lab File ID: NT1003222317.D |              |        | Analyzed: 03/23/23 03:15 |         |               |   |
| 1,4-Dichlorobenzene-d4                   | 137603   | 9.085   | 137603                      | 9.085        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                           | 494588   | 11.572  | 494588                      | 11.572       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                         | 278674   | 15.201  | 278674                      | 15.201       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                         | 509229   | 18.26   | 509229                      | 18.26        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                             | 462271   | 23.353  | 462271                      | 23.353       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                   | 782572   | 24.421  | 782572                      | 24.421       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Perylene-d12                             | 551153   | 26.04   | 551153                      | 26.04        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>Low Cal Check (SLC0397-LCV2 )</b>     |          | (Solid) | Lab File ID: NT1003222319.D |              |        | Analyzed: 03/23/23 04:30 |         |               |   |
| 1,4-Dichlorobenzene-d4                   | 136247   | 9.085   | 137603                      | 9.085        | 99     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                           | 480759   | 11.572  | 494588                      | 11.572       | 97     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                         | 262317   | 15.201  | 278674                      | 15.201       | 94     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                         | 483839   | 18.253  | 509229                      | 18.26        | 95     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Chrysene-d12                             | 443368   | 23.353  | 462271                      | 23.353       | 96     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                   | 679545   | 24.422  | 782572                      | 24.421       | 87     | 50 - 200                 | 0.001   | +/-0.50       |   |
| Perylene-d12                             | 516437   | 26.048  | 551153                      | 26.04        | 94     | 50 - 200                 | 0.008   | +/-0.50       |   |
| <b>Blank (BLC0442-BLK3 )</b>             |          | (Solid) | Lab File ID: NT1003222321.D |              |        | Analyzed: 03/23/23 05:46 |         |               |   |
| 1,4-Dichlorobenzene-d4                   | 161589   | 9.084   | 137603                      | 9.085        | 117    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Naphthalene-d8                           | 572184   | 11.572  | 494588                      | 11.572       | 116    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                         | 315580   | 15.201  | 278674                      | 15.201       | 113    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                         | 596777   | 18.253  | 509229                      | 18.26        | 117    | 50 - 200                 | -0.007  | +/-0.50       |   |
| Chrysene-d12                             | 504797   | 23.353  | 462271                      | 23.353       | 109    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                   | 820765   | 24.429  | 782572                      | 24.421       | 105    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                             | 587644   | 26.039  | 551153                      | 26.04        | 107    | 50 - 200                 | -0.001  | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor OEA, LLC  
Sequence: SLC0397

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT10  
Calibration: GC00046

| Internal Standard                      | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|--|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Matrix Spike (BLC0442-MS1)</b>      |          | (Solid) | Lab File ID: NT1003222322.D |              |        | Analyzed: 03/23/23 06:24 |         |               |   |
| 1,4-Dichlorobenzene-d4                 | 141251   | 9.085   | 137603                      | 9.085        | 103    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                         | 513214   | 11.58   | 494588                      | 11.572       | 104    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Acenaphthene-d10                       | 291010   | 15.201  | 278674                      | 15.201       | 104    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                       | 557499   | 18.26   | 509229                      | 18.26        | 109    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                           | 511293   | 23.361  | 462271                      | 23.353       | 111    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                 | 868170   | 24.429  | 782572                      | 24.421       | 111    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                           | 604025   | 26.047  | 551153                      | 26.04        | 110    | 50 - 200                 | 0.007   | +/-0.50       |   |
| <b>Matrix Spike Dup (BLC0442-MSD1)</b> |          | (Solid) | Lab File ID: NT1003222323.D |              |        | Analyzed: 03/23/23 07:01 |         |               |   |
| 1,4-Dichlorobenzene-d4                 | 143224   | 9.084   | 137603                      | 9.085        | 104    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Naphthalene-d8                         | 532672   | 11.58   | 494588                      | 11.572       | 108    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Acenaphthene-d10                       | 295809   | 15.201  | 278674                      | 15.201       | 106    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                       | 575737   | 18.26   | 509229                      | 18.26        | 113    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                           | 496414   | 23.353  | 462271                      | 23.353       | 107    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                 | 863843   | 24.421  | 782572                      | 24.421       | 110    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Perylene-d12                           | 583123   | 26.047  | 551153                      | 26.04        | 106    | 50 - 200                 | 0.007   | +/-0.50       |   |
| <b>LDW23-SS1178 (23A0179-08RE1)</b>    |          | (Solid) | Lab File ID: NT1003222324.D |              |        | Analyzed: 03/23/23 07:39 |         |               |   |
| 1,4-Dichlorobenzene-d4                 | 148776   | 9.085   | 137603                      | 9.085        | 108    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                         | 550617   | 11.58   | 494588                      | 11.572       | 111    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Acenaphthene-d10                       | 307211   | 15.201  | 278674                      | 15.201       | 110    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                       | 578105   | 18.261  | 509229                      | 18.26        | 114    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Chrysene-d12                           | 530682   | 23.361  | 462271                      | 23.353       | 115    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                 | 885973   | 24.429  | 782572                      | 24.421       | 113    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                           | 599514   | 26.055  | 551153                      | 26.04        | 109    | 50 - 200                 | 0.015   | +/-0.50       |   |
| <b>LDW23-SS1171 (23A0179-09RE1)</b>    |          | (Solid) | Lab File ID: NT1003222325.D |              |        | Analyzed: 03/23/23 08:17 |         |               |   |
| 1,4-Dichlorobenzene-d4                 | 148527   | 9.084   | 137603                      | 9.085        | 108    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Naphthalene-d8                         | 545849   | 11.572  | 494588                      | 11.572       | 110    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                       | 305553   | 15.201  | 278674                      | 15.201       | 110    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                       | 580255   | 18.26   | 509229                      | 18.26        | 114    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                           | 543015   | 23.353  | 462271                      | 23.353       | 117    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                 | 916417   | 24.429  | 782572                      | 24.421       | 117    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                           | 604455   | 26.055  | 551153                      | 26.04        | 110    | 50 - 200                 | 0.015   | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E**

Laboratory: Analytical Resources, LLC  
Client: Anchor OEA, LLC  
Sequence: SLC0397

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT10  
Calibration: GC00046

| Internal Standard                        | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|--|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>LDW23-SS1112 (23A0179-10RE1 )</b>     |          | (Solid) | Lab File ID: NT1003222326.D |              |        | Analyzed: 03/23/23 08:55 |         |               |   |
| 1,4-Dichlorobenzene-d4                   | 147991   | 9.085   | 137603                      | 9.085        | 108    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                           | 539802   | 11.58   | 494588                      | 11.572       | 109    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Acenaphthene-d10                         | 305843   | 15.201  | 278674                      | 15.201       | 110    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                         | 575184   | 18.261  | 509229                      | 18.26        | 113    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Chrysene-d12                             | 538713   | 23.361  | 462271                      | 23.353       | 117    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                   | 905425   | 24.429  | 782572                      | 24.421       | 116    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                             | 599572   | 26.055  | 551153                      | 26.04        | 109    | 50 - 200                 | 0.015   | +/-0.50       |   |
| <b>LDW23-SS1039 (23A0179-11RE1 )</b>     |          | (Solid) | Lab File ID: NT1003222327.D |              |        | Analyzed: 03/23/23 09:33 |         |               |   |
| 1,4-Dichlorobenzene-d4                   | 155943   | 9.085   | 137603                      | 9.085        | 113    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                           | 568533   | 11.58   | 494588                      | 11.572       | 115    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Acenaphthene-d10                         | 315922   | 15.201  | 278674                      | 15.201       | 113    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                         | 605413   | 18.261  | 509229                      | 18.26        | 119    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Chrysene-d12                             | 541947   | 23.361  | 462271                      | 23.353       | 117    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                   | 921583   | 24.437  | 782572                      | 24.421       | 118    | 50 - 200                 | 0.016   | +/-0.50       |   |
| Perylene-d12                             | 597568   | 26.055  | 551153                      | 26.04        | 108    | 50 - 200                 | 0.015   | +/-0.50       |   |
| <b>LDW23-SS1007 (23A0179-12RE1 )</b>     |          | (Solid) | Lab File ID: NT1003222328.D |              |        | Analyzed: 03/23/23 10:11 |         |               |   |
| 1,4-Dichlorobenzene-d4                   | 159763   | 9.084   | 137603                      | 9.085        | 116    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Naphthalene-d8                           | 576470   | 11.58   | 494588                      | 11.572       | 117    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Acenaphthene-d10                         | 324467   | 15.209  | 278674                      | 15.201       | 116    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Phenanthrene-d10                         | 621505   | 18.268  | 509229                      | 18.26        | 122    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Chrysene-d12                             | 575362   | 23.368  | 462271                      | 23.353       | 124    | 50 - 200                 | 0.015   | +/-0.50       |   |
| Di-n-Octylphthalate-d4                   | 935621   | 24.437  | 782572                      | 24.421       | 120    | 50 - 200                 | 0.016   | +/-0.50       |   |
| Perylene-d12                             | 602076   | 26.07   | 551153                      | 26.04        | 109    | 50 - 200                 | 0.030   | +/-0.50       |   |
| <b>Calibration Check (SLC0397-CCV1 )</b> |          | (Solid) | Lab File ID: NT1003222333.D |              |        | Analyzed: 03/23/23 13:22 |         |               |   |
| 1,4-Dichlorobenzene-d4                   | 115795   | 9.085   | 137603                      | 9.085        | 84     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                           | 422030   | 11.572  | 494588                      | 11.572       | 85     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                         | 244644   | 15.201  | 278674                      | 15.201       | 88     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                         | 458729   | 18.253  | 509229                      | 18.26        | 90     | 50 - 200                 | -0.007  | +/-0.50       |   |
| Chrysene-d12                             | 445472   | 23.345  | 462271                      | 23.353       | 96     | 50 - 200                 | -0.008  | +/-0.50       |   |
| Di-n-Octylphthalate-d4                   | 714340   | 24.406  | 782572                      | 24.421       | 91     | 50 - 200                 | -0.015  | +/-0.50       |   |
| Perylene-d12                             | 483312   | 26.024  | 551153                      | 26.04        | 88     | 50 - 200                 | -0.016  | +/-0.50       |   |



## HOLDING TIME SUMMARY

Analysis: EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

| Sample Name                   | Date Collected    | Date Received     | Date Prepared     | Days to Prep | Max Days to Prep | Date Analyzed     | Days to Analysis | Max Days to Analysis | Q |
|-------------------------------|-------------------|-------------------|-------------------|--------------|------------------|-------------------|------------------|----------------------|---|
| LDW23-SS1277<br>23A0179-01    | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 01/25/23<br>14:20 | 15           | 365              | 03/01/23<br>19:04 | 35               | 40                   |   |
| LDW23-SS1277<br>23A0179-01RE1 | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 03/17/23<br>11:16 | 66           | 365              | 03/22/23<br>22:49 | 5                | 40                   |   |
| LDW23-SS1271<br>23A0179-02    | 01/10/23<br>08:43 | 01/10/23<br>17:10 | 01/25/23<br>14:20 | 15           | 365              | 03/01/23<br>19:40 | 35               | 40                   |   |
| LDW23-SS1271<br>23A0179-02RE1 | 01/10/23<br>08:43 | 01/10/23<br>17:10 | 03/17/23<br>11:16 | 66           | 365              | 03/22/23<br>23:27 | 6                | 40                   |   |
| LDW23-SS1266<br>23A0179-03    | 01/10/23<br>09:04 | 01/10/23<br>17:10 | 01/25/23<br>14:20 | 15           | 365              | 03/01/23<br>20:16 | 35               | 40                   |   |
| LDW23-SS1266<br>23A0179-03RE1 | 01/10/23<br>09:04 | 01/10/23<br>17:10 | 03/17/23<br>11:16 | 66           | 365              | 03/23/23<br>00:05 | 6                | 40                   |   |
| LDW23-SS1248<br>23A0179-04    | 01/10/23<br>09:20 | 01/10/23<br>17:10 | 01/25/23<br>14:20 | 15           | 365              | 03/01/23<br>20:52 | 35               | 40                   |   |
| LDW23-SS1248<br>23A0179-04RE1 | 01/10/23<br>09:20 | 01/10/23<br>17:10 | 03/17/23<br>11:16 | 66           | 365              | 03/23/23<br>00:43 | 6                | 40                   |   |
| LDW23-SS1239<br>23A0179-05    | 01/10/23<br>09:35 | 01/10/23<br>17:10 | 01/25/23<br>14:20 | 15           | 365              | 03/01/23<br>21:28 | 35               | 40                   |   |
| LDW23-SS1239<br>23A0179-05RE1 | 01/10/23<br>09:35 | 01/10/23<br>17:10 | 03/17/23<br>11:16 | 66           | 365              | 03/23/23<br>01:21 | 6                | 40                   |   |
| LDW23-SS1213<br>23A0179-06    | 01/10/23<br>09:54 | 01/10/23<br>17:10 | 01/25/23<br>14:20 | 15           | 365              | 03/01/23<br>22:04 | 35               | 40                   |   |
| LDW23-SS1213<br>23A0179-06RE1 | 01/10/23<br>09:54 | 01/10/23<br>17:10 | 03/17/23<br>11:16 | 66           | 365              | 03/23/23<br>01:59 | 6                | 40                   |   |
| LDW23-SS1200<br>23A0179-07    | 01/10/23<br>10:10 | 01/10/23<br>17:10 | 01/25/23<br>14:20 | 15           | 365              | 03/02/23<br>01:03 | 35               | 40                   |   |
| LDW23-SS1200<br>23A0179-07RE1 | 01/10/23<br>10:10 | 01/10/23<br>17:10 | 03/17/23<br>11:16 | 66           | 365              | 03/23/23<br>02:37 | 6                | 40                   |   |
| LDW23-SS1178<br>23A0179-08    | 01/10/23<br>10:56 | 01/10/23<br>17:10 | 01/25/23<br>14:20 | 15           | 365              | 03/02/23<br>01:39 | 35               | 40                   |   |
| LDW23-SS1178<br>23A0179-08RE1 | 01/10/23<br>10:56 | 01/10/23<br>17:10 | 03/17/23<br>11:16 | 66           | 365              | 03/23/23<br>07:39 | 6                | 40                   |   |
| LDW23-SS1171<br>23A0179-09    | 01/10/23<br>11:08 | 01/10/23<br>17:10 | 01/25/23<br>14:20 | 15           | 365              | 03/02/23<br>08:16 | 36               | 40                   |   |
| LDW23-SS1171<br>23A0179-09RE1 | 01/10/23<br>11:08 | 01/10/23<br>17:10 | 03/17/23<br>11:16 | 66           | 365              | 03/23/23<br>08:17 | 6                | 40                   |   |
| LDW23-SS1112<br>23A0179-10    | 01/10/23<br>11:28 | 01/10/23<br>17:10 | 01/25/23<br>14:20 | 15           | 365              | 03/02/23<br>08:53 | 36               | 40                   |   |
| LDW23-SS1112<br>23A0179-10RE1 | 01/10/23<br>11:28 | 01/10/23<br>17:10 | 03/17/23<br>11:16 | 65           | 365              | 03/23/23<br>08:55 | 6                | 40                   |   |
| LDW23-SS1039<br>23A0179-11    | 01/10/23<br>11:56 | 01/10/23<br>17:10 | 01/25/23<br>14:20 | 15           | 365              | 03/02/23<br>02:15 | 35               | 40                   |   |
| LDW23-SS1039<br>23A0179-11RE1 | 01/10/23<br>11:56 | 01/10/23<br>17:10 | 03/17/23<br>11:16 | 65           | 365              | 03/23/23<br>09:33 | 6                | 40                   |   |



## HOLDING TIME SUMMARY

**Analysis: EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

| Sample Name                      | Date Collected    | Date Received     | Date Prepared     | Days to Prep | Max Days to Prep | Date Analyzed     | Days to Analysis | Max Days to Analysis | Q |
|----------------------------------|-------------------|-------------------|-------------------|--------------|------------------|-------------------|------------------|----------------------|---|
| LDW23-SS1007<br>23A0179-12       | 01/10/23<br>12:48 | 01/10/23<br>17:10 | 01/25/23<br>14:20 | 15           | 365              | 03/02/23<br>02:51 | 36               | 40                   |   |
| LDW23-SS1007<br>23A0179-12RE1    | 01/10/23<br>12:48 | 01/10/23<br>17:10 | 03/17/23<br>11:16 | 65           | 365              | 03/23/23<br>10:11 | 6                | 40                   |   |
| Matrix Spike<br>BLA0557-MS1      | 01/10/23<br>10:10 | 01/10/23<br>17:10 | 01/25/23<br>14:20 | 15           | 365              | 03/02/23<br>09:29 | 36               | 40                   |   |
| Matrix Spike Dup<br>BLA0557-MSD1 | 01/10/23<br>10:10 | 01/10/23<br>17:10 | 01/25/23<br>14:20 | 15           | 365              | 03/02/23<br>10:05 | 36               | 40                   |   |
| Matrix Spike<br>BLC0442-MS1      | 01/10/23<br>10:10 | 01/10/23<br>17:10 | 03/17/23<br>11:16 | 66           | 365              | 03/23/23<br>06:24 | 6                | 40                   |   |
| Matrix Spike Dup<br>BLC0442-MSD1 | 01/10/23<br>10:10 | 01/10/23<br>17:10 | 03/17/23<br>11:16 | 66           | 365              | 03/23/23<br>07:01 | 6                | 40                   |   |

\* Indicates hold time exceedance.



## METHOD DETECTION AND REPORTING LIMITS

### EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Instrument: NT10

| Analyte                     | MDL  | RL   | Units |
|-----------------------------|------|------|-------|
| Phenol                      | 4.4  | 20.0 | ug/kg |
| 4-Methylphenol              | 7.4  | 20.0 | ug/kg |
| Naphthalene                 | 4.2  | 20.0 | ug/kg |
| 2-Methylnaphthalene         | 4.5  | 20.0 | ug/kg |
| Acenaphthylene              | 6.2  | 20.0 | ug/kg |
| Dimethylphthalate           | 4.4  | 20.0 | ug/kg |
| Acenaphthene                | 5.2  | 20.0 | ug/kg |
| Dibenzofuran                | 14.1 | 20.0 | ug/kg |
| Fluorene                    | 14.6 | 20.0 | ug/kg |
| Phenanthrene                | 8.7  | 20.0 | ug/kg |
| Anthracene                  | 7.2  | 20.0 | ug/kg |
| Fluoranthene                | 6.1  | 20.0 | ug/kg |
| Pyrene                      | 5.7  | 20.0 | ug/kg |
| Butylbenzylphthalate        | 9.4  | 20.0 | ug/kg |
| Benzo(a)anthracene          | 6.0  | 20.0 | ug/kg |
| Chrysene                    | 6.1  | 20.0 | ug/kg |
| bis(2-Ethylhexyl)phthalate  | 5.5  | 50.0 | ug/kg |
| Benzo(a)fluoranthene, Total | 10.0 | 40.0 | ug/kg |
| Benzo(a)pyrene              | 4.2  | 20.0 | ug/kg |
| Indeno(1,2,3-cd)pyrene      | 14.7 | 20.0 | ug/kg |
| Dibenzo(a,h)anthracene      | 17.2 | 20.0 | ug/kg |
| Benzo(g,h,i)perylene        | 13.6 | 20.0 | ug/kg |





## METHOD DETECTION AND REPORTING LIMITS

### EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Instrument: NT14

| Analyte                      | MDL  | RL   | Units |
|------------------------------|------|------|-------|
| Phenol                       | 4.4  | 20.0 | ug/kg |
| 4-Methylphenol               | 7.4  | 20.0 | ug/kg |
| Naphthalene                  | 4.2  | 20.0 | ug/kg |
| 2-Methylnaphthalene          | 4.5  | 20.0 | ug/kg |
| Acenaphthylene               | 6.2  | 20.0 | ug/kg |
| Dimethylphthalate            | 4.4  | 20.0 | ug/kg |
| Acenaphthene                 | 5.2  | 20.0 | ug/kg |
| Dibenzofuran                 | 14.1 | 20.0 | ug/kg |
| Fluorene                     | 14.6 | 20.0 | ug/kg |
| Phenanthrene                 | 8.7  | 20.0 | ug/kg |
| Anthracene                   | 7.2  | 20.0 | ug/kg |
| Fluoranthene                 | 6.1  | 20.0 | ug/kg |
| Pyrene                       | 5.7  | 20.0 | ug/kg |
| Butylbenzylphthalate         | 9.4  | 20.0 | ug/kg |
| Benzo(a)anthracene           | 6.0  | 20.0 | ug/kg |
| Chrysene                     | 6.1  | 20.0 | ug/kg |
| bis(2-Ethylhexyl)phthalate   | 5.5  | 50.0 | ug/kg |
| Benzo(a)fluoranthenes, Total | 10.0 | 40.0 | ug/kg |
| Benzo(a)pyrene               | 4.2  | 20.0 | ug/kg |
| Indeno(1,2,3-cd)pyrene       | 14.7 | 20.0 | ug/kg |
| Dibenzo(a,h)anthracene       | 17.2 | 20.0 | ug/kg |
| Benzo(g,h,i)perylene         | 13.6 | 20.0 | ug/kg |



Description: SVOC 2,4-Dinitrophenol  
 Standard Type: Calibration Stan  
 Solvent: NA  
 Final Volume (mls): 1  
 Vials: 1  
 Vendor: SIGMA  
 Vendor Catalog #:

Expires: 31-Dec-29  
 Prepared: 25-Sep-13  
 Prepared By: Jianqing Zhou  
 Department: Organics  
 Last Edit: 25-Sep-13 13:45 by JZ  
 Lot #: 65H5021

**Comments**

Neat, Purity @ 90-95%. (ARI#: 0466)

| Analyte           | CAS Number | Concentration | Units |
|-------------------|------------|---------------|-------|
| 2,4-Dinitrophenol | 51-28-5    | 1000000       | ug/mL |

**B001941**

SVOA 2,4-Dinitrophenol  
 Expires 12/31/2029  
 Prepared By Jianqing Zhou 9/25/2013



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: \_\_\_\_\_

Chemical: 2,4-Dinitrophenol

Manufacturer: Sigma

Product #: \_\_\_\_\_

Lot #: 644 5021

Purity: 90.29%

Analyst: AB



|                     |                   |              |                       |
|---------------------|-------------------|--------------|-----------------------|
| Description:        | SVOC Benzoic Acid | Expires:     | 31-Dec-29             |
| Standard Type:      | Calibration Stan  | Prepared:    | 31-Dec-12             |
| Solvent:            | NA                | Prepared By: | Jianqing Zhou         |
| Final Volume (mls): | 1                 | Department:  | Organics              |
| Vials:              | 1                 | Last Edit:   | 25-Sep-13 15:23 by JZ |
| Vendor:             | ACROS Organics    | Lot #:       | A0224339              |
| Vendor Catalog #:   |                   |              |                       |

**Comments**

Neat, Purity @ 98%.

| Analyte      | CAS Number | Concentration | Units |
|--------------|------------|---------------|-------|
| Benzoic acid | 65-85-0    | 1000000       | ug/mL |

**B001945**

SVOC Benzoic Acid

Expires 12/31/2029

*Prepared By Jianqing Zhou 12/31/2012*

Reviewed By

Date



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: \_\_\_\_\_

Chemical: Benzoic Acid

Manufacturer: Acros Organics

Product #: \_\_\_\_\_

Lot #: A0224339

Purity: 98%

Analyst: AB



|                     |                                 |              |                       |
|---------------------|---------------------------------|--------------|-----------------------|
| Description:        | SVOC 4,6-Dinitro-2-Methylphenol | Expires:     | 31-Dec-29             |
| Standard Type:      | Calibration Stan                | Prepared:    | 25-Sep-13             |
| Solvent:            | NA                              | Prepared By: | Jianqing Zhou         |
| Final Volume (mls): | 1                               | Department:  | Organics              |
| Vials:              | 1                               | Last Edit:   | 25-Sep-13 15:37 by JZ |
| Vendor:             | Chem Service                    | Lot #:       | 179-31A               |
| Vendor Catalog #:   |                                 |              |                       |

**Comments**

Neat, Purity @ 99%. (ARI#: 009A)

| Analyte                    | CAS Number | Concentration | Units |
|----------------------------|------------|---------------|-------|
| 4,6-Dinitro-2-methylphenol | 534-52-1   | 1000000       | ug/mL |

**B001948**

SVOA 4,6-Dinitro-2-Methylphenol  
Expires 12/31/2029  
*Prepared By Jianqing Zhou 9/25/2013*



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: \_\_\_\_\_

Chemical: 4,6-Dinitro-2-Methylphenol

Manufacturer: Chem Service

Product #: \_\_\_\_\_

Lot #: 179-31A

Purity: 99%

Analyst: RB



|                     |                          |              |                       |
|---------------------|--------------------------|--------------|-----------------------|
| Description:        | SVOA 1-Methylnaphthalene | Expires:     | 02-Apr-14             |
| Standard Type:      | Analyte Spike            | Prepared:    | 13-Dec-12             |
| Solvent:            | NA                       | Prepared By: | Jianqing Zhou         |
| Final Volume (mls): | 1                        | Department:  | Organics              |
| Vials:              | 1                        | Last Edit:   | 04-Oct-13 18:32 by JZ |
| Vendor:             | Chem Service             | Lot #:       | 62-5B                 |
| Vendor Catalog #:   |                          |              |                       |

**Comments**

Neat, Purity @ 99%

| Analyte             | CAS Number | Concentration | Units |
|---------------------|------------|---------------|-------|
| 1-Methylnaphthalene | 90-12-0    | 1000000       | ug/mL |



**B002054**  
SVOA 1-Methylnaphthalene  
Solvent / Lot: NA  
Prep: 12/13/2012 by JZ  
Exp: 12/31/2029  
Location:





Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: \_\_\_\_\_

Chemical: 1-Methyl naphthalene

Manufacturer: Chem Service

Product #: 0787

Lot #: 62-53

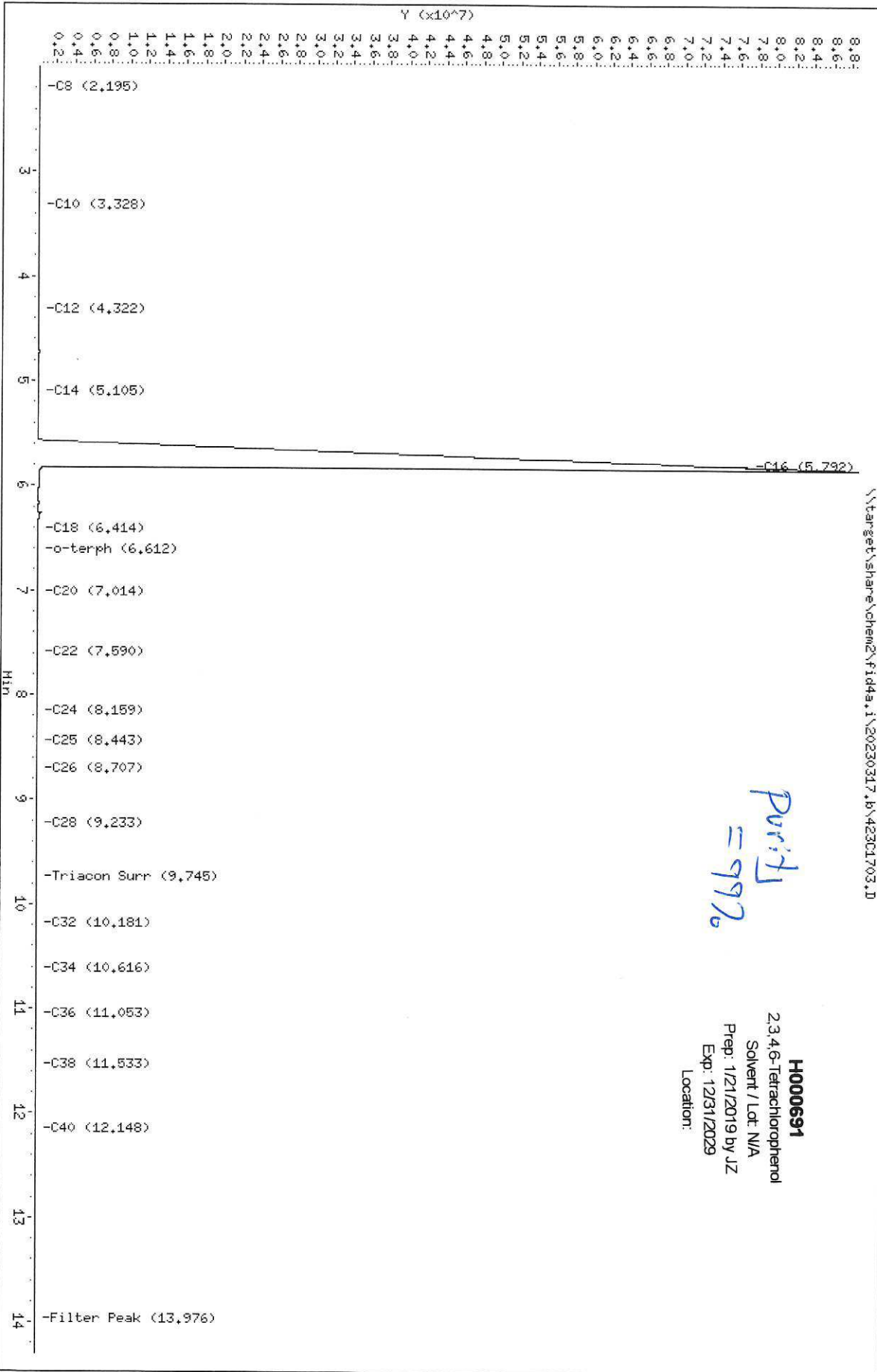
Purity: 99%

Analyst: AB

Data File: \\target\share\chem2\fid4a,1\20230317,1\42301703.D  
Date: 17-MAR-2023 10:46  
Client ID:  
Sample Info: K007226

Column phase: RTX-1

Instrument: fid4a.i  
Operator: AA  
Column diameter: 0.25



Purity  
= 99%

**H000691**  
2,3,4,6-Tetrachlorophenol  
Solvent / Lot: N/A  
Prep: 1/21/2019 by JZ  
Exp: 12/31/2029  
Location:

H000691

ARI Labs, Inc.

Data file : \\target\share\chem2\fid4a.i\20230317.b\423C1703.D  
 Lab Smp Id: K007226  
 Inj Date : 17-MAR-2023 10:46  
 Operator : AA Inst ID: fid4a.i  
 Smp Info : K007226  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem2\fid4a.i\20230317.b\FID4TPH.m  
 Meth Date : 17-Mar-2023 16:58 alfonso Quant Type: AREA%  
 Cal Date : 18-AUG-2022 11:51 Cal File: 422H1803.D  
 Als bottle: 10  
 Dil Factor: 1.00000  
 Integrator: Falcon+ Compound Sublist: tph.sub  
 Target Version: 4.14  
 Processing Host: ALFONSO-201901

Concentration Formula: Amt \* DF \* CpndVariable  
 Cpnd Variable Local Compound Variable

| RT    | AREA  | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|-----------|
| 2.043 | 81395 | 55677  | 0.684   | 0.012  | 1 Toluene |
| 2.074 | 68503 | 39991  | 0.584   | 0.010  |           |
| 2.104 | 85451 | 37158  | 0.435   | 0.012  |           |
| 2.146 | 59381 | 25207  | 0.424   | 0.008  |           |
| 2.181 | 11414 | 22862  | 2.003   | 0.001  |           |
| 2.195 | 34939 | 23199  | 0.664   | 0.005  | 2 C8      |
| 2.218 | 8679  | 21808  | 2.513   | 0.001  |           |
| 2.224 | 21070 | 21832  | 1.036   | 0.003  |           |
| 2.243 | 45086 | 20191  | 0.448   | 0.006  |           |
| 2.286 | 3130  | 15677  | 5.009   | 0.000  |           |
| 2.291 | 12615 | 15880  | 1.259   | 0.001  |           |
| 2.313 | 20979 | 15888  | 0.757   | 0.003  |           |
| 2.333 | 7621  | 15373  | 2.017   | 0.001  |           |
| 2.348 | 31874 | 17112  | 0.537   | 0.004  |           |
| 2.373 | 4619  | 13267  | 2.872   | 0.000  |           |
| 2.380 | 12003 | 13446  | 1.120   | 0.001  |           |
| 2.393 | 10327 | 13347  | 1.292   | 0.001  |           |
| 2.408 | 9963  | 12697  | 1.274   | 0.001  |           |
| 2.446 | 24366 | 11882  | 0.488   | 0.003  |           |
| 2.498 | 24898 | 10214  | 0.410   | 0.003  |           |
| 2.557 | 1592  | 6395   | 4.017   | 0.000  |           |
| 2.570 | 4427  | 6384   | 1.442   | 0.000  |           |
| 2.583 | 4275  | 6215   | 1.454   | 0.000  |           |
| 2.595 | 1208  | 6068   | 5.024   | 0.000  |           |
| 2.602 | 3076  | 6230   | 2.025   | 0.000  |           |
| 2.607 | 1560  | 6270   | 4.019   | 0.000  |           |
| 2.631 | 17195 | 8933   | 0.520   | 0.002  |           |
| 2.654 | 17386 | 7637   | 0.439   | 0.002  |           |
| 2.703 | 4531  | 5468   | 1.207   | 0.000  |           |
| 2.717 | 9156  | 5741   | 0.627   | 0.001  |           |
| 2.740 | 3955  | 5045   | 1.275   | 0.000  |           |

| RT    | AREA  | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|-----------|
| 2.768 | 1029  | 4134   | 4.017   | 0.000  |           |
| 2.771 | 830   | 4189   | 5.050   | 0.000  |           |
| 2.778 | 1924  | 4438   | 2.307   | 0.000  |           |
| 2.784 | 5498  | 4564   | 0.830   | 0.000  |           |
| 2.846 | 25970 | 8400   | 0.323   | 0.003  |           |
| 2.880 | 939   | 3165   | 3.370   | 0.000  |           |
| 2.884 | 1885  | 3183   | 1.688   | 0.000  |           |
| 2.901 | 4805  | 3504   | 0.729   | 0.000  |           |
| 2.938 | 581   | 1990   | 3.423   | 0.000  |           |
| 2.944 | 1450  | 2016   | 1.390   | 0.000  |           |
| 2.955 | 449   | 1816   | 4.043   | 0.000  |           |
| 2.967 | 1234  | 2009   | 1.629   | 0.000  |           |
| 2.982 | 712   | 2087   | 2.931   | 0.000  |           |
| 2.988 | 1000  | 2338   | 2.337   | 0.000  |           |
| 3.001 | 3475  | 3541   | 1.019   | 0.000  |           |
| 3.018 | 3528  | 3705   | 1.050   | 0.000  |           |
| 3.033 | 983   | 2521   | 2.564   | 0.000  |           |
| 3.038 | 1297  | 2686   | 2.070   | 0.000  |           |
| 3.044 | 2547  | 2541   | 0.997   | 0.000  |           |
| 3.069 | 389   | 1330   | 3.418   | 0.000  |           |
| 3.078 | 728   | 1545   | 2.123   | 0.000  |           |
| 3.085 | 1244  | 1637   | 1.316   | 0.000  |           |
| 3.098 | 1115  | 1624   | 1.457   | 0.000  |           |
| 3.108 | 926   | 1475   | 1.593   | 0.000  |           |
| 3.119 | 239   | 1202   | 5.036   | 0.000  |           |
| 3.125 | 540   | 1251   | 2.315   | 0.000  |           |
| 3.133 | 409   | 1219   | 2.978   | 0.000  |           |
| 3.144 | 2600  | 1886   | 0.725   | 0.000  |           |
| 3.165 | 620   | 1604   | 2.588   | 0.000  |           |
| 3.173 | 554   | 1647   | 2.972   | 0.000  |           |
| 3.192 | 2423  | 2273   | 0.938   | 0.000  |           |
| 3.197 | 582   | 2418   | 4.158   | 0.000  |           |
| 3.204 | 1161  | 2723   | 2.346   | 0.000  |           |
| 3.208 | 825   | 2777   | 3.364   | 0.000  |           |
| 3.228 | 4472  | 3391   | 0.758   | 0.000  |           |
| 3.246 | 1586  | 2676   | 1.688   | 0.000  |           |
| 3.279 | 1194  | 2070   | 1.734   | 0.000  |           |
| 3.293 | 854   | 1951   | 2.285   | 0.000  |           |
| 3.298 | 595   | 2029   | 3.408   | 0.000  |           |
| 3.315 | 2640  | 2597   | 0.984   | 0.000  |           |
| 3.320 | 1015  | 2542   | 2.504   | 0.000  |           |
| 3.328 | 1549  | 2593   | 1.674   | 0.000  | 3 C10     |
| 3.338 | 1314  | 2533   | 1.928   | 0.000  |           |
| 3.350 | 523   | 2159   | 4.130   | 0.000  |           |
| 3.358 | 1776  | 2105   | 1.185   | 0.000  |           |
| 3.371 | 356   | 1797   | 5.043   | 0.000  |           |
| 3.378 | 914   | 1880   | 2.057   | 0.000  |           |
| 3.383 | 380   | 1927   | 5.068   | 0.000  |           |
| 3.387 | 595   | 2023   | 3.399   | 0.000  |           |
| 3.395 | 1390  | 2270   | 1.633   | 0.000  |           |
| 3.405 | 1490  | 1994   | 1.338   | 0.000  |           |
| 3.423 | 690   | 1601   | 2.321   | 0.000  |           |
| 3.435 | 821   | 1554   | 1.894   | 0.000  |           |
| 3.441 | 387   | 1583   | 4.087   | 0.000  |           |
| 3.444 | 401   | 1625   | 4.051   | 0.000  |           |
| 3.448 | 403   | 1636   | 4.060   | 0.000  |           |
| 3.455 | 1216  | 1700   | 1.398   | 0.000  |           |

| RT    | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|------|--------|---------|--------|-----------|
| 3.478 | 235  | 1185   | 5.047   | 0.000  |           |
| 3.482 | 412  | 1229   | 2.986   | 0.000  |           |
| 3.488 | 695  | 1177   | 1.694   | 0.000  |           |
| 3.501 | 239  | 969    | 4.063   | 0.000  |           |
| 3.509 | 914  | 1149   | 1.258   | 0.000  |           |
| 3.520 | 1078 | 1069   | 0.992   | 0.000  |           |
| 3.540 | 301  | 927    | 3.079   | 0.000  |           |
| 3.556 | 406  | 849    | 2.089   | 0.000  |           |
| 3.567 | 370  | 873    | 2.359   | 0.000  |           |
| 3.572 | 178  | 939    | 5.270   | 0.000  |           |
| 3.578 | 591  | 1171   | 1.981   | 0.000  |           |
| 3.591 | 869  | 1353   | 1.556   | 0.000  |           |
| 3.596 | 741  | 1352   | 1.826   | 0.000  |           |
| 3.606 | 471  | 1401   | 2.976   | 0.000  |           |
| 3.613 | 548  | 1411   | 2.577   | 0.000  |           |
| 3.618 | 433  | 1521   | 3.511   | 0.000  |           |
| 3.625 | 710  | 1635   | 2.303   | 0.000  |           |
| 3.630 | 910  | 1667   | 1.832   | 0.000  |           |
| 3.652 | 661  | 1562   | 2.362   | 0.000  |           |
| 3.670 | 462  | 1214   | 2.627   | 0.000  |           |
| 3.686 | 1036 | 1453   | 1.403   | 0.000  |           |
| 3.690 | 829  | 1374   | 1.658   | 0.000  |           |
| 3.702 | 531  | 1191   | 2.241   | 0.000  |           |
| 3.712 | 452  | 1355   | 3.001   | 0.000  |           |
| 3.716 | 820  | 1423   | 1.736   | 0.000  |           |
| 3.736 | 2685 | 2093   | 0.780   | 0.000  |           |
| 3.752 | 689  | 2030   | 2.946   | 0.000  |           |
| 3.760 | 4109 | 2349   | 0.572   | 0.000  |           |
| 3.805 | 3183 | 2036   | 0.640   | 0.000  |           |
| 3.823 | 496  | 1686   | 3.401   | 0.000  |           |
| 3.835 | 1641 | 2314   | 1.410   | 0.000  |           |
| 3.859 | 9243 | 4616   | 0.499   | 0.001  |           |
| 3.897 | 851  | 1745   | 2.051   | 0.000  |           |
| 3.904 | 503  | 1721   | 3.419   | 0.000  |           |
| 3.927 | 3866 | 3293   | 0.852   | 0.000  |           |
| 3.941 | 5520 | 3558   | 0.645   | 0.000  |           |
| 3.980 | 573  | 1715   | 2.991   | 0.000  |           |
| 3.992 | 1027 | 1794   | 1.748   | 0.000  |           |
| 3.995 | 1494 | 1860   | 1.245   | 0.000  |           |
| 4.010 | 887  | 1639   | 1.847   | 0.000  |           |
| 4.021 | 663  | 1724   | 2.602   | 0.000  |           |
| 4.026 | 1380 | 1776   | 1.287   | 0.000  |           |
| 4.045 | 306  | 1546   | 5.059   | 0.000  |           |
| 4.053 | 1001 | 1758   | 1.757   | 0.000  |           |
| 4.061 | 1137 | 1804   | 1.586   | 0.000  |           |
| 4.072 | 779  | 1773   | 2.275   | 0.000  |           |
| 4.080 | 989  | 1896   | 1.917   | 0.000  |           |
| 4.087 | 561  | 1905   | 3.396   | 0.000  |           |
| 4.098 | 1956 | 2156   | 1.103   | 0.000  |           |
| 4.106 | 1168 | 2044   | 1.750   | 0.000  |           |
| 4.127 | 1049 | 1627   | 1.551   | 0.000  |           |
| 4.142 | 587  | 1545   | 2.633   | 0.000  |           |
| 4.148 | 1155 | 1572   | 1.361   | 0.000  |           |
| 4.173 | 3682 | 2398   | 0.651   | 0.000  |           |
| 4.189 | 1023 | 1738   | 1.700   | 0.000  |           |
| 4.204 | 549  | 1627   | 2.961   | 0.000  |           |
| 4.213 | 628  | 1658   | 2.641   | 0.000  |           |

| RT    | AREA   | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|--------|--------|---------|--------|-----------|
| 4.221 | 1039   | 1830   | 1.761   | 0.000  |           |
| 4.227 | 447    | 1814   | 4.058   | 0.000  |           |
| 4.248 | 2703   | 2638   | 0.976   | 0.000  |           |
| 4.256 | 1387   | 2945   | 2.123   | 0.000  |           |
| 4.260 | 743    | 2988   | 4.022   | 0.000  |           |
| 4.265 | 912    | 3081   | 3.378   | 0.000  |           |
| 4.268 | 779    | 3140   | 4.031   | 0.000  |           |
| 4.275 | 1736   | 3217   | 1.853   | 0.000  |           |
| 4.289 | 2688   | 3495   | 1.300   | 0.000  |           |
| 4.295 | 3466   | 3448   | 0.995   | 0.000  |           |
| 4.322 | 1054   | 2680   | 2.543   | 0.000  | 4 C12     |
| 4.330 | 1686   | 2627   | 1.558   | 0.000  |           |
| 4.358 | 1066   | 1974   | 1.852   | 0.000  |           |
| 4.378 | 434    | 1758   | 4.054   | 0.000  |           |
| 4.384 | 1324   | 1879   | 1.419   | 0.000  |           |
| 4.403 | 860    | 1608   | 1.869   | 0.000  |           |
| 4.414 | 457    | 1567   | 3.431   | 0.000  |           |
| 4.421 | 1117   | 1675   | 1.499   | 0.000  |           |
| 4.433 | 910    | 1538   | 1.690   | 0.000  |           |
| 4.439 | 865    | 1534   | 1.774   | 0.000  |           |
| 4.449 | 764    | 1302   | 1.705   | 0.000  |           |
| 4.471 | 433    | 1123   | 2.593   | 0.000  |           |
| 4.476 | 734    | 1135   | 1.546   | 0.000  |           |
| 4.490 | 385    | 1005   | 2.610   | 0.000  |           |
| 4.498 | 555    | 1186   | 2.137   | 0.000  |           |
| 4.502 | 695    | 1166   | 1.677   | 0.000  |           |
| 4.518 | 587    | 949    | 1.618   | 0.000  |           |
| 4.526 | 316    | 925    | 2.924   | 0.000  |           |
| 4.533 | 560    | 989    | 1.765   | 0.000  |           |
| 4.543 | 469    | 1001   | 2.135   | 0.000  |           |
| 4.548 | 222    | 916    | 4.130   | 0.000  |           |
| 4.553 | 188    | 980    | 5.207   | 0.000  |           |
| 4.558 | 255    | 1038   | 4.076   | 0.000  |           |
| 4.568 | 652    | 1157   | 1.775   | 0.000  |           |
| 4.573 | 338    | 1151   | 3.409   | 0.000  |           |
| 4.580 | 487    | 1283   | 2.636   | 0.000  |           |
| 4.596 | 3801   | 1950   | 0.513   | 0.000  |           |
| 4.631 | 531    | 1429   | 2.692   | 0.000  |           |
| 4.663 | 4548   | 3737   | 0.822   | 0.000  |           |
| 4.667 | 2815   | 3822   | 1.358   | 0.000  |           |
| 4.679 | 2199   | 3760   | 1.710   | 0.000  |           |
| 4.688 | 1068   | 3585   | 3.356   | 0.000  |           |
| 4.694 | 2166   | 3742   | 1.727   | 0.000  |           |
| 4.723 | 372603 | 172476 | 0.463   | 0.055  |           |
| 4.894 | 47034  | 21828  | 0.464   | 0.006  |           |
| 4.956 | 80510  | 28154  | 0.350   | 0.011  |           |
| 4.999 | 54273  | 16950  | 0.312   | 0.008  |           |
| 5.068 | 1137   | 5713   | 5.027   | 0.000  |           |
| 5.072 | 8415   | 5792   | 0.688   | 0.001  |           |
| 5.105 | 4203   | 4316   | 1.027   | 0.000  | 5 C14     |
| 5.146 | 660    | 2685   | 4.070   | 0.000  |           |
| 5.153 | 2524   | 2649   | 1.050   | 0.000  |           |
| 5.170 | 1076   | 2437   | 2.265   | 0.000  |           |
| 5.174 | 2371   | 2438   | 1.028   | 0.000  |           |
| 5.201 | 1013   | 2011   | 1.986   | 0.000  |           |
| 5.210 | 2064   | 2332   | 1.130   | 0.000  |           |
| 5.224 | 1083   | 2304   | 2.127   | 0.000  |           |

| RT    | AREA      | HEIGHT   | HT/AREA | % AREA | COMPOUNDS    |
|-------|-----------|----------|---------|--------|--------------|
| 5.228 | 2027      | 2354     | 1.162   | 0.000  |              |
| 5.276 | 4673      | 2682     | 0.574   | 0.000  |              |
| 5.322 | 195       | 844      | 4.328   | 0.000  |              |
| 5.331 | 977       | 1203     | 1.231   | 0.000  |              |
| 5.356 | 490       | 993      | 2.027   | 0.000  |              |
| 5.361 | 814       | 1044     | 1.283   | 0.000  |              |
| 5.382 | 115       | 387      | 3.351   | 0.000  |              |
| 5.399 | 619       | 960      | 1.551   | 0.000  |              |
| 5.406 | 402       | 1035     | 2.576   | 0.000  |              |
| 5.410 | 378       | 1122     | 2.968   | 0.000  |              |
| 5.423 | 1663      | 1555     | 0.935   | 0.000  |              |
| 5.452 | 5951      | 5020     | 0.844   | 0.000  |              |
| 5.501 | 290       | 797      | 2.753   | 0.000  |              |
| 5.523 | 2317      | 2472     | 1.067   | 0.000  |              |
| 5.538 | 5946      | 6823     | 1.147   | 0.000  |              |
| 5.792 | 501855376 | 76456669 | 0.152   | 74.449 | 6 C16        |
| 5.807 | 79757019  | 82319946 | 1.032   | 11.775 |              |
| 5.823 | 77929961  | 88539160 | 1.136   | 11.505 |              |
| 5.962 | 75333     | 84828    | 1.126   | 0.011  |              |
| 5.986 | 474748    | 124326   | 0.262   | 0.070  |              |
| 6.070 | 17103     | 57180    | 3.343   | 0.002  |              |
| 6.074 | 120761    | 57565    | 0.477   | 0.017  |              |
| 6.113 | 90233     | 47140    | 0.522   | 0.013  |              |
| 6.165 | 407438    | 218439   | 0.536   | 0.060  |              |
| 6.263 | 944101    | 374166   | 0.396   | 0.139  |              |
| 6.414 | 114839    | 39498    | 0.344   | 0.016  | 7 C18        |
| 6.464 | 53190     | 31177    | 0.586   | 0.007  |              |
| 6.523 | 31509     | 25870    | 0.821   | 0.004  |              |
| 6.551 | 4785      | 23963    | 5.008   | 0.000  |              |
| 6.559 | 51194     | 25409    | 0.496   | 0.007  |              |
| 6.590 | 21354     | 21666    | 1.015   | 0.003  |              |
| 6.612 | 35061     | 21127    | 0.603   | 0.005  | \$ 8 o-terph |
| 6.638 | 17712     | 19934    | 1.125   | 0.002  |              |
| 6.672 | 22159     | 19651    | 0.887   | 0.003  |              |
| 6.683 | 26846     | 19268    | 0.718   | 0.003  |              |
| 6.708 | 5413      | 18142    | 3.351   | 0.000  |              |
| 6.713 | 24941     | 18247    | 0.732   | 0.003  |              |
| 6.747 | 50657     | 18478    | 0.365   | 0.007  |              |
| 6.795 | 23973     | 17444    | 0.728   | 0.003  |              |
| 6.814 | 28457     | 17895    | 0.629   | 0.004  |              |
| 6.837 | 10746     | 15445    | 1.437   | 0.001  |              |
| 6.871 | 29974     | 21406    | 0.714   | 0.004  |              |
| 6.874 | 4287      | 21471    | 5.009   | 0.000  |              |
| 6.882 | 20520     | 21675    | 1.056   | 0.003  |              |
| 6.944 | 32864     | 17445    | 0.531   | 0.004  |              |
| 6.978 | 9138      | 15347    | 1.679   | 0.001  |              |
| 7.014 | 4130      | 13830    | 3.348   | 0.000  | 9 C20        |
| 7.025 | 12567     | 14083    | 1.121   | 0.001  |              |
| 7.038 | 4952      | 14274    | 2.882   | 0.000  |              |
| 7.044 | 6508      | 14578    | 2.240   | 0.000  |              |
| 7.050 | 25344     | 14736    | 0.581   | 0.003  |              |
| 7.099 | 5531      | 12365    | 2.236   | 0.000  |              |
| 7.108 | 16440     | 12371    | 0.752   | 0.002  |              |
| 7.129 | 9415      | 11275    | 1.198   | 0.001  |              |
| 7.175 | 3589      | 10327    | 2.878   | 0.000  |              |
| 7.182 | 7285      | 10474    | 1.438   | 0.001  |              |
| 7.212 | 11252     | 10002    | 0.889   | 0.001  |              |

| RT    | AREA  | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|-----------|
| 7.227 | 5193  | 9506   | 1.830   | 0.000  |           |
| 7.237 | 5172  | 9476   | 1.832   | 0.000  |           |
| 7.247 | 4652  | 9357   | 2.011   | 0.000  |           |
| 7.254 | 3258  | 9369   | 2.875   | 0.000  |           |
| 7.259 | 7003  | 9455   | 1.350   | 0.001  |           |
| 7.272 | 5540  | 9252   | 1.670   | 0.000  |           |
| 7.283 | 4511  | 9087   | 2.014   | 0.000  |           |
| 7.296 | 5828  | 9031   | 1.550   | 0.000  |           |
| 7.308 | 4850  | 8866   | 1.828   | 0.000  |           |
| 7.318 | 3111  | 9014   | 2.897   | 0.000  |           |
| 7.324 | 3191  | 9168   | 2.873   | 0.000  |           |
| 7.328 | 2775  | 9325   | 3.360   | 0.000  |           |
| 7.339 | 6190  | 9713   | 1.569   | 0.000  |           |
| 7.344 | 2920  | 9761   | 3.343   | 0.000  |           |
| 7.350 | 17091 | 9874   | 0.578   | 0.002  |           |
| 7.379 | 7217  | 8616   | 1.194   | 0.001  |           |
| 7.395 | 5430  | 8408   | 1.548   | 0.000  |           |
| 7.404 | 2492  | 8342   | 3.348   | 0.000  |           |
| 7.409 | 1666  | 8354   | 5.014   | 0.000  |           |
| 7.415 | 2955  | 8500   | 2.877   | 0.000  |           |
| 7.423 | 3887  | 8782   | 2.259   | 0.000  |           |
| 7.465 | 28160 | 14253  | 0.506   | 0.004  |           |
| 7.471 | 6466  | 14499  | 2.242   | 0.000  |           |
| 7.480 | 6649  | 15111  | 2.273   | 0.000  |           |
| 7.484 | 26595 | 15197  | 0.571   | 0.003  |           |
| 7.514 | 13964 | 13621  | 0.975   | 0.002  |           |
| 7.539 | 8118  | 12614  | 1.554   | 0.001  |           |
| 7.553 | 10540 | 12495  | 1.185   | 0.001  |           |
| 7.584 | 2820  | 11307  | 4.010   | 0.000  |           |
| 7.590 | 4522  | 11429  | 2.527   | 0.000  | 10 C22    |
| 7.620 | 16634 | 10435  | 0.627   | 0.002  |           |
| 7.653 | 6793  | 9783   | 1.440   | 0.001  |           |
| 7.663 | 8606  | 9666   | 1.123   | 0.001  |           |
| 7.675 | 2827  | 9464   | 3.347   | 0.000  |           |
| 7.683 | 9373  | 9620   | 1.026   | 0.001  |           |
| 7.699 | 3657  | 9205   | 2.517   | 0.000  |           |
| 7.708 | 5071  | 9290   | 1.832   | 0.000  |           |
| 7.713 | 10483 | 9274   | 0.885   | 0.001  |           |
| 7.735 | 10686 | 9257   | 0.866   | 0.001  |           |
| 7.752 | 4732  | 8664   | 1.831   | 0.000  |           |
| 7.765 | 5624  | 8765   | 1.558   | 0.000  |           |
| 7.773 | 5614  | 8686   | 1.547   | 0.000  |           |
| 7.784 | 3375  | 8506   | 2.520   | 0.000  |           |
| 7.793 | 2118  | 8517   | 4.021   | 0.000  |           |
| 7.799 | 10086 | 8544   | 0.847   | 0.001  |           |
| 7.817 | 7761  | 8325   | 1.073   | 0.001  |           |
| 7.833 | 2415  | 8088   | 3.350   | 0.000  |           |
| 7.838 | 2838  | 8160   | 2.875   | 0.000  |           |
| 7.844 | 3649  | 8173   | 2.240   | 0.000  |           |
| 7.858 | 2009  | 8069   | 4.017   | 0.000  |           |
| 7.864 | 4482  | 8197   | 1.829   | 0.000  |           |
| 7.871 | 3688  | 8223   | 2.230   | 0.000  |           |
| 7.879 | 4875  | 8269   | 1.696   | 0.000  |           |
| 7.889 | 2009  | 8061   | 4.013   | 0.000  |           |
| 7.897 | 4080  | 8308   | 2.036   | 0.000  |           |
| 7.916 | 17828 | 10103  | 0.567   | 0.002  |           |
| 7.935 | 4052  | 9086   | 2.242   | 0.000  |           |



| RT    | AREA  | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|-----------|
| 7.940 | 2229  | 8948   | 4.015   | 0.000  |           |
| 7.945 | 5765  | 8973   | 1.556   | 0.000  |           |
| 7.954 | 6458  | 8765   | 1.357   | 0.000  |           |
| 7.976 | 2099  | 8428   | 4.016   | 0.000  |           |
| 7.984 | 10213 | 8807   | 0.862   | 0.001  |           |
| 7.999 | 4897  | 8282   | 1.691   | 0.000  |           |
| 8.013 | 8782  | 8112   | 0.924   | 0.001  |           |
| 8.028 | 5860  | 7858   | 1.341   | 0.000  |           |
| 8.040 | 3929  | 7871   | 2.003   | 0.000  |           |
| 8.054 | 9161  | 8146   | 0.889   | 0.001  |           |
| 8.067 | 2701  | 7766   | 2.876   | 0.000  |           |
| 8.074 | 3069  | 7702   | 2.510   | 0.000  |           |
| 8.081 | 2694  | 7742   | 2.874   | 0.000  |           |
| 8.088 | 2705  | 7793   | 2.881   | 0.000  |           |
| 8.095 | 5842  | 7832   | 1.341   | 0.000  |           |
| 8.104 | 5419  | 7841   | 1.447   | 0.000  |           |
| 8.119 | 5740  | 7735   | 1.348   | 0.000  |           |
| 8.134 | 4986  | 7768   | 1.558   | 0.000  |           |
| 8.141 | 5893  | 8009   | 1.359   | 0.000  |           |
| 8.159 | 9098  | 8027   | 0.882   | 0.001  | 11 C24    |
| 8.174 | 3156  | 7971   | 2.526   | 0.000  |           |
| 8.185 | 2376  | 7967   | 3.353   | 0.000  |           |
| 8.190 | 4739  | 7937   | 1.675   | 0.000  |           |
| 8.202 | 5181  | 8028   | 1.549   | 0.000  |           |
| 8.212 | 1994  | 8027   | 4.025   | 0.000  |           |
| 8.223 | 6137  | 8270   | 1.348   | 0.000  |           |
| 8.236 | 6864  | 8171   | 1.190   | 0.001  |           |
| 8.248 | 2383  | 7986   | 3.351   | 0.000  |           |
| 8.253 | 2405  | 8059   | 3.351   | 0.000  |           |
| 8.259 | 5294  | 8207   | 1.550   | 0.000  |           |
| 8.268 | 2866  | 8235   | 2.874   | 0.000  |           |
| 8.280 | 6583  | 8312   | 1.263   | 0.000  |           |
| 8.289 | 4538  | 8296   | 1.828   | 0.000  |           |
| 8.295 | 2060  | 8300   | 4.029   | 0.000  |           |
| 8.300 | 2063  | 8291   | 4.020   | 0.000  |           |
| 8.313 | 7062  | 8400   | 1.189   | 0.001  |           |
| 8.318 | 1667  | 8375   | 5.023   | 0.000  |           |
| 8.332 | 11362 | 9100   | 0.801   | 0.001  |           |
| 8.343 | 4357  | 8741   | 2.006   | 0.000  |           |
| 8.358 | 1267  | 8458   | 6.676   | 0.000  |           |
| 8.363 | 2991  | 8621   | 2.882   | 0.000  |           |
| 8.371 | 3980  | 8983   | 2.257   | 0.000  |           |
| 8.379 | 6330  | 9083   | 1.435   | 0.000  |           |
| 8.385 | 3111  | 8963   | 2.881   | 0.000  |           |
| 8.393 | 6706  | 9050   | 1.349   | 0.000  |           |
| 8.404 | 4903  | 8943   | 1.824   | 0.000  |           |
| 8.417 | 8437  | 8972   | 1.063   | 0.001  |           |
| 8.438 | 7166  | 9103   | 1.270   | 0.001  |           |
| 8.443 | 3211  | 9227   | 2.873   | 0.000  | 12 C25    |
| 8.450 | 3688  | 9295   | 2.521   | 0.000  |           |
| 8.455 | 2313  | 9276   | 4.010   | 0.000  |           |
| 8.475 | 30054 | 13714  | 0.456   | 0.004  |           |
| 8.504 | 5760  | 9733   | 1.690   | 0.000  |           |
| 8.519 | 2799  | 9376   | 3.350   | 0.000  |           |
| 8.529 | 4766  | 9710   | 2.037   | 0.000  |           |
| 8.537 | 4875  | 9815   | 2.013   | 0.000  |           |
| 8.543 | 8411  | 9973   | 1.186   | 0.001  |           |

| RT    | AREA  | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|-----------|
| 8.555 | 2969  | 9916   | 3.340   | 0.000  |           |
| 8.560 | 3974  | 9987   | 2.513   | 0.000  |           |
| 8.568 | 2483  | 9997   | 4.026   | 0.000  |           |
| 8.572 | 5007  | 10043  | 2.006   | 0.000  |           |
| 8.591 | 14074 | 10725  | 0.762   | 0.002  |           |
| 8.602 | 2648  | 10665  | 4.028   | 0.000  |           |
| 8.606 | 2159  | 10862  | 5.032   | 0.000  |           |
| 8.609 | 2183  | 10952  | 5.017   | 0.000  |           |
| 8.633 | 7361  | 10561  | 1.435   | 0.001  |           |
| 8.647 | 6774  | 10495  | 1.549   | 0.001  |           |
| 8.658 | 2596  | 10420  | 4.014   | 0.000  |           |
| 8.663 | 4723  | 10573  | 2.239   | 0.000  |           |
| 8.669 | 3156  | 10589  | 3.355   | 0.000  |           |
| 8.687 | 15405 | 11334  | 0.736   | 0.002  |           |
| 8.699 | 6103  | 11158  | 1.828   | 0.000  |           |
| 8.707 | 2223  | 11136  | 5.009   | 0.000  | 13 C26    |
| 8.730 | 28697 | 12536  | 0.437   | 0.004  |           |
| 8.754 | 8658  | 11553  | 1.334   | 0.001  |           |
| 8.763 | 2896  | 11612  | 4.010   | 0.000  |           |
| 8.780 | 15029 | 12352  | 0.822   | 0.002  |           |
| 8.788 | 1833  | 12243  | 6.680   | 0.000  |           |
| 8.798 | 11854 | 12679  | 1.070   | 0.001  |           |
| 8.806 | 1873  | 12509  | 6.677   | 0.000  |           |
| 8.809 | 3133  | 12565  | 4.011   | 0.000  |           |
| 8.813 | 2506  | 12550  | 5.008   | 0.000  |           |
| 8.819 | 7588  | 12757  | 1.681   | 0.001  |           |
| 8.829 | 4418  | 12679  | 2.870   | 0.000  |           |
| 8.835 | 6988  | 12762  | 1.826   | 0.001  |           |
| 8.848 | 13711 | 13258  | 0.967   | 0.002  |           |
| 8.872 | 26625 | 13656  | 0.513   | 0.003  |           |
| 8.894 | 4575  | 13127  | 2.869   | 0.000  |           |
| 8.898 | 2631  | 13188  | 5.013   | 0.000  |           |
| 8.902 | 5918  | 13262  | 2.241   | 0.000  |           |
| 8.914 | 8577  | 13313  | 1.552   | 0.001  |           |
| 8.922 | 4011  | 13433  | 3.349   | 0.000  |           |
| 8.926 | 4724  | 13546  | 2.867   | 0.000  |           |
| 8.933 | 6787  | 13651  | 2.011   | 0.001  |           |
| 8.946 | 9614  | 13923  | 1.448   | 0.001  |           |
| 8.951 | 6274  | 14004  | 2.232   | 0.000  |           |
| 8.960 | 5592  | 14036  | 2.510   | 0.000  |           |
| 8.966 | 3513  | 14090  | 4.011   | 0.000  |           |
| 8.969 | 2829  | 14171  | 5.009   | 0.000  |           |
| 8.973 | 4976  | 14233  | 2.860   | 0.000  |           |
| 8.980 | 4289  | 14365  | 3.350   | 0.000  |           |
| 8.996 | 27708 | 16441  | 0.593   | 0.004  |           |
| 9.013 | 8129  | 14847  | 1.827   | 0.001  |           |
| 9.025 | 8129  | 14840  | 1.826   | 0.001  |           |
| 9.036 | 7503  | 15229  | 2.030   | 0.001  |           |
| 9.040 | 4559  | 15225  | 3.340   | 0.000  |           |
| 9.057 | 14920 | 16251  | 1.089   | 0.002  |           |
| 9.067 | 9915  | 16831  | 1.698   | 0.001  |           |
| 9.076 | 8535  | 17331  | 2.031   | 0.001  |           |
| 9.081 | 5250  | 17596  | 3.352   | 0.000  |           |
| 9.084 | 10558 | 17675  | 1.674   | 0.001  |           |
| 9.095 | 4386  | 17601  | 4.013   | 0.000  |           |
| 9.111 | 30564 | 19262  | 0.630   | 0.004  |           |
| 9.128 | 8346  | 18722  | 2.243   | 0.001  |           |

| RT    | AREA  | HEIGHT | HT/AREA | % AREA | COMPOUNDS          |
|-------|-------|--------|---------|--------|--------------------|
| 9.139 | 15095 | 18986  | 1.258   | 0.002  |                    |
| 9.149 | 6655  | 19050  | 2.862   | 0.000  |                    |
| 9.158 | 23240 | 19719  | 0.848   | 0.003  |                    |
| 9.171 | 1903  | 19042  | 10.005  | 0.000  |                    |
| 9.175 | 4773  | 19156  | 4.013   | 0.000  |                    |
| 9.187 | 23630 | 19927  | 0.843   | 0.003  |                    |
| 9.199 | 4925  | 19763  | 4.013   | 0.000  |                    |
| 9.208 | 14115 | 20394  | 1.445   | 0.002  |                    |
| 9.219 | 12303 | 20691  | 1.682   | 0.001  |                    |
| 9.226 | 7266  | 20831  | 2.867   | 0.001  |                    |
| 9.233 | 15622 | 21000  | 1.344   | 0.002  | 14 C28             |
| 9.247 | 9280  | 20714  | 2.232   | 0.001  |                    |
| 9.262 | 45057 | 27849  | 0.618   | 0.006  |                    |
| 9.281 | 22651 | 23200  | 1.024   | 0.003  |                    |
| 9.304 | 13489 | 22820  | 1.692   | 0.001  |                    |
| 9.307 | 18038 | 22862  | 1.267   | 0.002  |                    |
| 9.328 | 8656  | 21778  | 2.516   | 0.001  |                    |
| 9.334 | 8635  | 21650  | 2.507   | 0.001  |                    |
| 9.343 | 16240 | 21738  | 1.339   | 0.002  |                    |
| 9.354 | 5409  | 21709  | 4.013   | 0.000  |                    |
| 9.367 | 16481 | 22234  | 1.349   | 0.002  |                    |
| 9.370 | 6683  | 22346  | 3.344   | 0.000  |                    |
| 9.382 | 14775 | 23166  | 1.568   | 0.002  |                    |
| 9.390 | 11679 | 23531  | 2.015   | 0.001  |                    |
| 9.394 | 12888 | 23584  | 1.830   | 0.001  |                    |
| 9.408 | 18752 | 23645  | 1.261   | 0.002  |                    |
| 9.416 | 4675  | 23396  | 5.004   | 0.000  |                    |
| 9.428 | 25138 | 24392  | 0.970   | 0.003  |                    |
| 9.438 | 20233 | 24095  | 1.191   | 0.002  |                    |
| 9.468 | 67429 | 26696  | 0.396   | 0.009  |                    |
| 9.496 | 8413  | 24122  | 2.867   | 0.001  |                    |
| 9.507 | 12049 | 24259  | 2.013   | 0.001  |                    |
| 9.527 | 36362 | 25771  | 0.709   | 0.005  |                    |
| 9.538 | 12891 | 25911  | 2.010   | 0.001  |                    |
| 9.543 | 6452  | 25853  | 4.007   | 0.000  |                    |
| 9.551 | 10420 | 26202  | 2.515   | 0.001  |                    |
| 9.557 | 29750 | 26593  | 0.894   | 0.004  |                    |
| 9.574 | 6252  | 25071  | 4.010   | 0.000  |                    |
| 9.593 | 29143 | 27655  | 0.949   | 0.004  |                    |
| 9.599 | 40783 | 27905  | 0.684   | 0.006  |                    |
| 9.620 | 13159 | 26364  | 2.004   | 0.001  |                    |
| 9.632 | 17259 | 26799  | 1.553   | 0.002  |                    |
| 9.640 | 13210 | 26592  | 2.013   | 0.001  |                    |
| 9.664 | 35362 | 28170  | 0.797   | 0.005  |                    |
| 9.672 | 27890 | 28134  | 1.009   | 0.004  |                    |
| 9.696 | 26737 | 28634  | 1.071   | 0.003  |                    |
| 9.711 | 53475 | 30848  | 0.577   | 0.007  |                    |
| 9.745 | 33266 | 29504  | 0.887   | 0.004  | \$ 15 Triacon Surr |
| 9.752 | 7348  | 29501  | 4.015   | 0.001  |                    |
| 9.756 | 20542 | 29565  | 1.439   | 0.003  |                    |
| 9.768 | 7255  | 29059  | 4.005   | 0.001  |                    |
| 9.773 | 7275  | 29173  | 4.010   | 0.001  |                    |
| 9.785 | 31543 | 30611  | 0.970   | 0.004  |                    |
| 9.803 | 46804 | 32832  | 0.701   | 0.006  |                    |
| 9.821 | 10456 | 30060  | 2.875   | 0.001  |                    |
| 9.833 | 30772 | 31156  | 1.012   | 0.004  |                    |
| 9.860 | 77784 | 33514  | 0.431   | 0.011  |                    |

| RT     | AREA  | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------|-------|--------|---------|--------|-----------|
| 9.881  | 12779 | 32069  | 2.510   | 0.001  |           |
| 9.892  | 14531 | 32668  | 2.248   | 0.002  |           |
| 9.896  | 8201  | 32902  | 4.012   | 0.001  |           |
| 9.908  | 23357 | 33882  | 1.451   | 0.003  |           |
| 9.912  | 27050 | 34095  | 1.260   | 0.003  |           |
| 9.939  | 14585 | 32570  | 2.233   | 0.002  |           |
| 9.951  | 23032 | 33095  | 1.437   | 0.003  |           |
| 9.956  | 11596 | 33292  | 2.871   | 0.001  |           |
| 9.966  | 16544 | 33271  | 2.011   | 0.002  |           |
| 9.971  | 11660 | 33391  | 2.864   | 0.001  |           |
| 9.975  | 10051 | 33617  | 3.345   | 0.001  |           |
| 9.983  | 15209 | 33983  | 2.234   | 0.002  |           |
| 9.988  | 15177 | 33830  | 2.229   | 0.002  |           |
| 9.996  | 10128 | 33907  | 3.348   | 0.001  |           |
| 10.018 | 43348 | 35629  | 0.822   | 0.006  |           |
| 10.021 | 7133  | 35693  | 5.004   | 0.001  |           |
| 10.025 | 8960  | 35988  | 4.016   | 0.001  |           |
| 10.034 | 42064 | 36944  | 0.878   | 0.006  |           |
| 10.063 | 65447 | 38699  | 0.591   | 0.009  |           |
| 10.077 | 7375  | 36906  | 5.004   | 0.001  |           |
| 10.083 | 16743 | 37428  | 2.235   | 0.002  |           |
| 10.095 | 34467 | 38665  | 1.122   | 0.005  |           |
| 10.118 | 90921 | 40621  | 0.447   | 0.013  |           |
| 10.151 | 37738 | 38047  | 1.008   | 0.005  |           |
| 10.158 | 11383 | 38037  | 3.342   | 0.001  |           |
| 10.168 | 36074 | 38274  | 1.061   | 0.005  |           |
| 10.181 | 15072 | 37809  | 2.509   | 0.002  | 16 C32    |
| 10.185 | 5655  | 37746  | 6.675   | 0.000  |           |
| 10.198 | 43905 | 38471  | 0.876   | 0.006  |           |
| 10.208 | 24771 | 38177  | 1.541   | 0.003  |           |
| 10.218 | 19031 | 38113  | 2.003   | 0.002  |           |
| 10.228 | 13353 | 38279  | 2.867   | 0.001  |           |
| 10.237 | 21225 | 38826  | 1.829   | 0.003  |           |
| 10.243 | 30946 | 38929  | 1.258   | 0.004  |           |
| 10.266 | 43064 | 39733  | 0.923   | 0.006  |           |
| 10.275 | 11912 | 39784  | 3.340   | 0.001  |           |
| 10.278 | 19932 | 39886  | 2.001   | 0.002  |           |
| 10.293 | 46366 | 40725  | 0.878   | 0.006  |           |
| 10.318 | 46465 | 41024  | 0.883   | 0.006  |           |
| 10.328 | 24720 | 41353  | 1.673   | 0.003  |           |
| 10.334 | 10308 | 41278  | 4.005   | 0.001  |           |
| 10.343 | 29100 | 41866  | 1.439   | 0.004  |           |
| 10.354 | 22822 | 41695  | 1.827   | 0.003  |           |
| 10.360 | 16568 | 41490  | 2.504   | 0.002  |           |
| 10.376 | 31388 | 42321  | 1.348   | 0.004  |           |
| 10.384 | 36478 | 43119  | 1.182   | 0.005  |           |
| 10.393 | 21427 | 43144  | 2.014   | 0.003  |           |
| 10.416 | 82339 | 44731  | 0.543   | 0.012  |           |
| 10.434 | 23173 | 42257  | 1.824   | 0.003  |           |
| 10.455 | 42801 | 43684  | 1.021   | 0.006  |           |
| 10.459 | 19648 | 44004  | 2.240   | 0.002  |           |
| 10.469 | 19632 | 43883  | 2.235   | 0.002  |           |
| 10.492 | 56113 | 45807  | 0.816   | 0.008  |           |
| 10.497 | 20626 | 45915  | 2.226   | 0.003  |           |
| 10.503 | 27439 | 45837  | 1.671   | 0.004  |           |
| 10.513 | 31833 | 45842  | 1.440   | 0.004  |           |
| 10.523 | 6773  | 45190  | 6.672   | 0.001  |           |

| RT     | AREA   | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------|--------|--------|---------|--------|-----------|
| 10.529 | 22697  | 45513  | 2.005   | 0.003  |           |
| 10.543 | 39087  | 46432  | 1.188   | 0.005  |           |
| 10.552 | 16284  | 46719  | 2.869   | 0.002  |           |
| 10.558 | 18796  | 47158  | 2.509   | 0.002  |           |
| 10.576 | 69878  | 48769  | 0.698   | 0.010  |           |
| 10.586 | 12085  | 48384  | 4.004   | 0.001  |           |
| 10.592 | 21757  | 48469  | 2.228   | 0.003  |           |
| 10.609 | 46960  | 50482  | 1.075   | 0.006  |           |
| 10.616 | 40486  | 50812  | 1.255   | 0.005  | 17 C34    |
| 10.628 | 52392  | 50284  | 0.960   | 0.007  |           |
| 10.665 | 99744  | 52644  | 0.528   | 0.014  |           |
| 10.680 | 20832  | 52264  | 2.509   | 0.003  |           |
| 10.699 | 126137 | 55939  | 0.443   | 0.018  |           |
| 10.723 | 18258  | 52316  | 2.865   | 0.002  |           |
| 10.733 | 65550  | 52928  | 0.807   | 0.009  |           |
| 10.751 | 49102  | 51903  | 1.057   | 0.007  |           |
| 10.765 | 10288  | 51490  | 5.005   | 0.001  |           |
| 10.777 | 73220  | 52877  | 0.722   | 0.010  |           |
| 10.791 | 15621  | 52150  | 3.338   | 0.002  |           |
| 10.799 | 46819  | 52190  | 1.115   | 0.006  |           |
| 10.817 | 52000  | 52328  | 1.006   | 0.007  |           |
| 10.828 | 13014  | 52167  | 4.008   | 0.001  |           |
| 10.833 | 18275  | 52280  | 2.861   | 0.002  |           |
| 10.838 | 67284  | 52271  | 0.777   | 0.009  |           |
| 10.860 | 15395  | 51401  | 3.339   | 0.002  |           |
| 10.867 | 15366  | 51252  | 3.335   | 0.002  |           |
| 10.874 | 25712  | 51608  | 2.007   | 0.003  |           |
| 10.885 | 59363  | 52064  | 0.877   | 0.008  |           |
| 10.901 | 33199  | 51247  | 1.544   | 0.004  |           |
| 10.911 | 35859  | 51446  | 1.435   | 0.005  |           |
| 10.925 | 15150  | 50526  | 3.335   | 0.002  |           |
| 10.936 | 27761  | 50508  | 1.819   | 0.004  |           |
| 10.954 | 40634  | 51235  | 1.261   | 0.005  |           |
| 10.958 | 17973  | 51428  | 2.861   | 0.002  |           |
| 10.982 | 101216 | 54997  | 0.543   | 0.014  |           |
| 10.999 | 80380  | 54264  | 0.675   | 0.011  |           |
| 11.022 | 15822  | 52869  | 3.342   | 0.002  |           |
| 11.029 | 23878  | 53171  | 2.227   | 0.003  |           |
| 11.032 | 23908  | 53219  | 2.226   | 0.003  |           |
| 11.044 | 39793  | 53228  | 1.338   | 0.005  |           |
| 11.053 | 13218  | 52959  | 4.007   | 0.001  | 19 C36    |
| 11.057 | 26491  | 53088  | 2.004   | 0.003  |           |
| 11.069 | 47933  | 53454  | 1.115   | 0.007  |           |
| 11.079 | 78088  | 52997  | 0.679   | 0.011  |           |
| 11.132 | 4853   | 48537  | 10.002  | 0.000  |           |
| 11.138 | 21933  | 48845  | 2.227   | 0.003  |           |
| 11.148 | 46678  | 49317  | 1.057   | 0.006  |           |
| 11.158 | 12248  | 49060  | 4.006   | 0.001  |           |
| 11.164 | 14711  | 49102  | 3.338   | 0.002  |           |
| 11.179 | 64473  | 49939  | 0.775   | 0.009  |           |
| 11.192 | 19751  | 49439  | 2.503   | 0.002  |           |
| 11.197 | 14848  | 49541  | 3.337   | 0.002  |           |
| 11.202 | 17336  | 49566  | 2.859   | 0.002  |           |
| 11.206 | 12400  | 49639  | 4.003   | 0.001  |           |
| 11.212 | 56808  | 49881  | 0.878   | 0.008  |           |
| 11.230 | 26830  | 48794  | 1.819   | 0.003  |           |
| 11.263 | 19014  | 47590  | 2.503   | 0.002  |           |

| RT     | AREA  | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------|-------|--------|---------|--------|-----------|
| 11.267 | 11927 | 47790  | 4.007   | 0.001  |           |
| 11.285 | 66432 | 50042  | 0.753   | 0.009  |           |
| 11.308 | 17214 | 49235  | 2.860   | 0.002  |           |
| 11.312 | 19684 | 49285  | 2.504   | 0.002  |           |
| 11.322 | 19740 | 49570  | 2.511   | 0.002  |           |
| 11.331 | 27467 | 50208  | 1.828   | 0.004  |           |
| 11.334 | 12565 | 50301  | 4.003   | 0.001  |           |
| 11.338 | 17617 | 50367  | 2.859   | 0.002  |           |
| 11.356 | 50450 | 50688  | 1.005   | 0.007  |           |
| 11.383 | 31641 | 48774  | 1.541   | 0.004  |           |
| 11.392 | 14562 | 48589  | 3.337   | 0.002  |           |
| 11.398 | 14566 | 48593  | 3.336   | 0.002  |           |
| 11.405 | 21947 | 48858  | 2.226   | 0.003  |           |
| 11.418 | 36961 | 49602  | 1.342   | 0.005  |           |
| 11.428 | 52174 | 49838  | 0.955   | 0.007  |           |
| 11.438 | 46900 | 49605  | 1.058   | 0.006  |           |
| 11.456 | 66003 | 49218  | 0.746   | 0.009  |           |
| 11.481 | 84312 | 48818  | 0.579   | 0.012  |           |
| 11.518 | 39837 | 46996  | 1.180   | 0.005  |           |
| 11.533 | 55836 | 46822  | 0.839   | 0.008  | 20 C38    |
| 11.560 | 30101 | 46465  | 1.544   | 0.004  |           |
| 11.568 | 20916 | 46512  | 2.224   | 0.003  |           |
| 11.573 | 11637 | 46596  | 4.004   | 0.001  |           |
| 11.579 | 23274 | 46598  | 2.002   | 0.003  |           |
| 11.586 | 13953 | 46531  | 3.335   | 0.002  |           |
| 11.591 | 9318  | 46631  | 5.004   | 0.001  |           |
| 11.623 | 97892 | 48831  | 0.499   | 0.014  |           |
| 11.631 | 17107 | 48984  | 2.863   | 0.002  |           |
| 11.638 | 22090 | 49260  | 2.230   | 0.003  |           |
| 11.642 | 32050 | 49351  | 1.540   | 0.004  |           |
| 11.669 | 95446 | 50981  | 0.534   | 0.014  |           |
| 11.685 | 95822 | 49865  | 0.520   | 0.014  |           |
| 11.788 | 8918  | 44609  | 5.002   | 0.001  |           |
| 11.791 | 35704 | 44768  | 1.254   | 0.005  |           |
| 11.804 | 11082 | 44350  | 4.002   | 0.001  |           |
| 11.813 | 22172 | 44403  | 2.003   | 0.003  |           |
| 11.823 | 19993 | 44543  | 2.228   | 0.002  |           |
| 11.829 | 13395 | 44754  | 3.341   | 0.001  |           |
| 11.837 | 20184 | 44981  | 2.228   | 0.002  |           |
| 11.852 | 26933 | 44942  | 1.669   | 0.003  |           |
| 11.866 | 36041 | 45224  | 1.255   | 0.005  |           |
| 11.877 | 15835 | 45355  | 2.864   | 0.002  |           |
| 11.883 | 18222 | 45726  | 2.509   | 0.002  |           |
| 11.889 | 15985 | 45741  | 2.861   | 0.002  |           |
| 11.896 | 20679 | 46117  | 2.230   | 0.003  |           |
| 11.905 | 23259 | 46896  | 2.016   | 0.003  |           |
| 11.929 | 70146 | 49826  | 0.710   | 0.010  |           |
| 11.936 | 52288 | 50085  | 0.958   | 0.007  |           |
| 11.951 | 14787 | 49369  | 3.339   | 0.002  |           |
| 11.957 | 17313 | 49595  | 2.865   | 0.002  |           |
| 11.961 | 32199 | 49647  | 1.542   | 0.004  |           |
| 11.971 | 19578 | 49063  | 2.506   | 0.002  |           |
| 11.980 | 34244 | 49065  | 1.433   | 0.005  |           |
| 12.019 | 96987 | 51133  | 0.527   | 0.014  |           |
| 12.025 | 48685 | 51499  | 1.058   | 0.007  |           |
| 12.053 | 38386 | 51386  | 1.339   | 0.005  |           |
| 12.062 | 38575 | 51549  | 1.336   | 0.005  |           |

| RT     | AREA   | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------|--------|--------|---------|--------|-----------|
| 12.070 | 17923  | 51300  | 2.862   | 0.002  |           |
| 12.078 | 45780  | 51141  | 1.117   | 0.006  |           |
| 12.105 | 31495  | 48817  | 1.550   | 0.004  |           |
| 12.118 | 85510  | 48295  | 0.565   | 0.012  |           |
| 12.148 | 55474  | 46657  | 0.841   | 0.008  | 21 C40    |
| 12.172 | 34299  | 45899  | 1.338   | 0.005  |           |
| 12.181 | 18286  | 45754  | 2.502   | 0.002  |           |
| 12.188 | 20565  | 45727  | 2.223   | 0.003  |           |
| 12.198 | 29701  | 45787  | 1.542   | 0.004  |           |
| 12.212 | 11377  | 45530  | 4.002   | 0.001  |           |
| 12.218 | 29576  | 45566  | 1.541   | 0.004  |           |
| 12.237 | 41054  | 45750  | 1.114   | 0.006  |           |
| 12.243 | 13695  | 45701  | 3.337   | 0.002  |           |
| 12.253 | 27528  | 46122  | 1.675   | 0.004  |           |
| 12.260 | 16149  | 46201  | 2.861   | 0.002  |           |
| 12.272 | 32473  | 46571  | 1.434   | 0.004  |           |
| 12.347 | 231342 | 54259  | 0.235   | 0.034  |           |
| 12.355 | 96470  | 54322  | 0.563   | 0.014  |           |
| 12.383 | 13155  | 52687  | 4.005   | 0.001  |           |
| 12.389 | 52817  | 52930  | 1.002   | 0.007  |           |
| 12.434 | 117936 | 55204  | 0.468   | 0.017  |           |
| 12.440 | 19323  | 55283  | 2.861   | 0.002  |           |
| 12.448 | 22049  | 55156  | 2.502   | 0.003  |           |
| 12.460 | 127044 | 56114  | 0.442   | 0.018  |           |
| 12.500 | 63536  | 55700  | 0.877   | 0.009  |           |
| 12.519 | 44746  | 56237  | 1.257   | 0.006  |           |
| 12.523 | 16928  | 56556  | 3.341   | 0.002  |           |
| 12.528 | 14154  | 56666  | 4.003   | 0.002  |           |
| 12.532 | 14154  | 56644  | 4.002   | 0.002  |           |
| 12.538 | 25607  | 57089  | 2.229   | 0.003  |           |
| 12.543 | 31284  | 57010  | 1.822   | 0.004  |           |
| 12.560 | 76588  | 57084  | 0.745   | 0.011  |           |
| 12.574 | 22463  | 56167  | 2.500   | 0.003  |           |
| 12.583 | 192414 | 56305  | 0.293   | 0.028  |           |
| 12.668 | 201456 | 54098  | 0.269   | 0.029  |           |
| 12.722 | 63529  | 49368  | 0.777   | 0.009  |           |
| 12.744 | 14574  | 48683  | 3.340   | 0.002  |           |
| 12.757 | 68233  | 49046  | 0.719   | 0.010  |           |
| 12.777 | 29106  | 48653  | 1.672   | 0.004  |           |
| 12.802 | 69072  | 49884  | 0.722   | 0.010  |           |
| 12.805 | 19947  | 49915  | 2.502   | 0.002  |           |
| 12.813 | 12457  | 49907  | 4.006   | 0.001  |           |
| 12.826 | 42860  | 50672  | 1.182   | 0.006  |           |
| 12.830 | 15192  | 50711  | 3.338   | 0.002  |           |
| 12.835 | 63121  | 50727  | 0.804   | 0.009  |           |
| 12.856 | 30109  | 50299  | 1.671   | 0.004  |           |
| 12.871 | 12459  | 49875  | 4.003   | 0.001  |           |
| 12.876 | 24950  | 49913  | 2.001   | 0.003  |           |
| 12.883 | 12458  | 49860  | 4.002   | 0.001  |           |
| 12.892 | 24999  | 50091  | 2.004   | 0.003  |           |
| 12.904 | 37682  | 50442  | 1.339   | 0.005  |           |
| 12.918 | 60965  | 51059  | 0.838   | 0.009  |           |
| 12.929 | 15268  | 50972  | 3.338   | 0.002  |           |
| 12.950 | 101236 | 52476  | 0.518   | 0.014  |           |
| 12.991 | 32619  | 50285  | 1.542   | 0.004  |           |
| 13.030 | 23826  | 47690  | 2.002   | 0.003  |           |
| 13.047 | 49429  | 47410  | 0.959   | 0.007  |           |

| RT     | AREA   | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------|--------|--------|---------|--------|-----------|
| 13.072 | 11668  | 46709  | 4.003   | 0.001  |           |
| 13.077 | 14056  | 46964  | 3.341   | 0.002  |           |
| 13.083 | 21201  | 47214  | 2.227   | 0.003  |           |
| 13.092 | 45034  | 47490  | 1.055   | 0.006  |           |
| 13.103 | 33139  | 47401  | 1.430   | 0.004  |           |
| 13.119 | 58622  | 47300  | 0.807   | 0.008  |           |
| 13.136 | 61979  | 46406  | 0.749   | 0.009  |           |
| 13.163 | 36232  | 45399  | 1.253   | 0.005  |           |
| 13.172 | 13552  | 45219  | 3.337   | 0.002  |           |
| 13.178 | 13550  | 45211  | 3.337   | 0.002  |           |
| 13.183 | 13581  | 45318  | 3.337   | 0.002  |           |
| 13.188 | 15867  | 45365  | 2.859   | 0.002  |           |
| 13.193 | 11350  | 45433  | 4.003   | 0.001  |           |
| 13.206 | 54879  | 45909  | 0.837   | 0.008  |           |
| 13.233 | 74220  | 46899  | 0.632   | 0.010  |           |
| 13.246 | 18724  | 46923  | 2.506   | 0.002  |           |
| 13.250 | 14089  | 47028  | 3.338   | 0.002  |           |
| 13.254 | 9392   | 46999  | 5.004   | 0.001  |           |
| 13.261 | 35241  | 47103  | 1.337   | 0.005  |           |
| 13.270 | 21093  | 46884  | 2.223   | 0.003  |           |
| 13.278 | 16404  | 46889  | 2.858   | 0.002  |           |
| 13.284 | 28108  | 46937  | 1.670   | 0.004  |           |
| 13.309 | 27777  | 46575  | 1.677   | 0.004  |           |
| 13.313 | 11643  | 46617  | 4.004   | 0.001  |           |
| 13.323 | 30391  | 46938  | 1.544   | 0.004  |           |
| 13.337 | 49696  | 47554  | 0.957   | 0.007  |           |
| 13.345 | 11906  | 47686  | 4.005   | 0.001  |           |
| 13.352 | 21499  | 47921  | 2.229   | 0.003  |           |
| 13.358 | 14416  | 48133  | 3.339   | 0.002  |           |
| 13.366 | 24163  | 48487  | 2.007   | 0.003  |           |
| 13.391 | 108474 | 49842  | 0.459   | 0.016  |           |
| 13.411 | 39818  | 49922  | 1.254   | 0.005  |           |
| 13.421 | 140245 | 49882  | 0.356   | 0.020  |           |
| 13.468 | 75433  | 46221  | 0.613   | 0.011  |           |
| 13.519 | 59701  | 44435  | 0.744   | 0.008  |           |
| 13.538 | 26345  | 44021  | 1.671   | 0.003  |           |
| 13.553 | 17475  | 43727  | 2.502   | 0.002  |           |
| 13.559 | 19699  | 43828  | 2.225   | 0.002  |           |
| 13.566 | 15324  | 43832  | 2.860   | 0.002  |           |
| 13.574 | 28519  | 43956  | 1.541   | 0.004  |           |
| 13.585 | 21950  | 43943  | 2.002   | 0.003  |           |
| 13.595 | 26497  | 44341  | 1.673   | 0.003  |           |
| 13.603 | 22230  | 44574  | 2.005   | 0.003  |           |
| 13.608 | 11135  | 44585  | 4.004   | 0.001  |           |
| 13.633 | 100703 | 46371  | 0.460   | 0.014  |           |
| 13.650 | 25255  | 45974  | 1.820   | 0.003  |           |
| 13.663 | 20511  | 45675  | 2.227   | 0.003  |           |
| 13.670 | 15945  | 45584  | 2.859   | 0.002  |           |
| 13.677 | 40973  | 45642  | 1.114   | 0.006  |           |
| 13.688 | 4544   | 45448  | 10.002  | 0.000  |           |
| 13.693 | 29520  | 45508  | 1.542   | 0.004  |           |
| 13.718 | 24720  | 44995  | 1.820   | 0.003  |           |
| 13.727 | 11216  | 44890  | 4.002   | 0.001  |           |
| 13.735 | 29185  | 45025  | 1.543   | 0.004  |           |
| 13.752 | 17874  | 44782  | 2.505   | 0.002  |           |
| 13.767 | 35874  | 45020  | 1.255   | 0.005  |           |
| 13.775 | 36036  | 45104  | 1.252   | 0.005  |           |



| RT                 | AREA               | HEIGHT           | HT/AREA | % AREA | COMPOUNDS      |
|--------------------|--------------------|------------------|---------|--------|----------------|
| 13.785             | 11226              | 44939            | 4.003   | 0.001  |                |
| 13.790             | 47016              | 44953            | 0.956   | 0.006  |                |
| 13.813             | 11118              | 44516            | 4.004   | 0.001  |                |
| 13.818             | 37641              | 44507            | 1.182   | 0.005  |                |
| 13.832             | 15424              | 44192            | 2.865   | 0.002  |                |
| 13.838             | 17564              | 43967            | 2.503   | 0.002  |                |
| 13.844             | 26339              | 43892            | 1.666   | 0.003  |                |
| 13.855             | 30567              | 43821            | 1.434   | 0.004  |                |
| 13.865             | 23854              | 43526            | 1.825   | 0.003  |                |
| 13.882             | 28266              | 43639            | 1.544   | 0.004  |                |
| 13.886             | 30418              | 43629            | 1.434   | 0.004  |                |
| 13.901             | 34702              | 43472            | 1.253   | 0.005  |                |
| 13.920             | 48162              | 44005            | 0.914   | 0.007  |                |
| 13.928             | 17577              | 43956            | 2.501   | 0.002  |                |
| 13.941             | 15410              | 44084            | 2.861   | 0.002  |                |
| 13.946             | 11045              | 44251            | 4.006   | 0.001  |                |
| 13.949             | 24369              | 44341            | 1.820   | 0.003  |                |
| 13.959             | 22103              | 44264            | 2.003   | 0.003  |                |
| 13.967             | 22088              | 44195            | 2.001   | 0.003  |                |
| 13.976             | 33207              | 44336            | 1.335   | 0.004  | 18 Filter Peak |
| 13.998             | 24195              | 44018            | 1.819   | 0.003  |                |
| 14.007             | 15335              | 43888            | 2.862   | 0.002  |                |
| 14.014             | 17519              | 43863            | 2.504   | 0.002  |                |
| 14.019             | 54335              | 43870            | 0.807   | 0.008  |                |
| 14.046             | 10722              | 42915            | 4.003   | 0.001  |                |
| 14.052             | 19305              | 42955            | 2.225   | 0.002  |                |
| 14.058             | 8568               | 42864            | 5.003   | 0.001  |                |
| 14.067             | 38739              | 43159            | 1.114   | 0.005  |                |
| 14.077             | 15012              | 42931            | 2.860   | 0.002  |                |
| 14.083             | 25753              | 42977            | 1.669   | 0.003  |                |
| 14.102             | 25682              | 42913            | 1.671   | 0.003  |                |
| 14.108             | 19267              | 42865            | 2.225   | 0.002  |                |
| 14.116             | 12834              | 42815            | 3.336   | 0.001  |                |
| 14.126             | 25874              | 43369            | 1.676   | 0.003  |                |
| 14.133             | 56339              | 43595            | 0.774   | 0.008  |                |
| 14.161             | 32503              | 43582            | 1.341   | 0.004  |                |
| 14.165             | 10909              | 43696            | 4.006   | 0.001  |                |
| 14.170             | 15313              | 43822            | 2.862   | 0.002  |                |
| 14.175             | 10960              | 43911            | 4.007   | 0.001  |                |
| 14.178             | 13176              | 43945            | 3.335   | 0.001  |                |
| 14.183             | 19785              | 43976            | 2.223   | 0.002  |                |
| 14.191             | 8796               | 44018            | 5.005   | 0.001  |                |
| 14.197             | 17636              | 44177            | 2.505   | 0.002  |                |
| 14.208             | 28815              | 44459            | 1.543   | 0.004  |                |
| 14.219             | 8873               | 44379            | 5.002   | 0.001  |                |
| 14.223             | 13318              | 44445            | 3.337   | 0.001  |                |
| 14.229             | 28860              | 44456            | 1.540   | 0.004  |                |
| 14.247             | 15436              | 44194            | 2.863   | 0.002  |                |
| 14.260             | 37147              | 43758            | 1.178   | 0.005  |                |
| 14.274             | 45685              | 43705            | 0.957   | 0.006  |                |
| =====<br>677340272 | =====<br>268782821 | =====<br>100.000 |         |        |                |

Total unknown % area = 25.478

# Certificate of Composition - Analytical Standard

## BASE STOCK

**Product no.:** 22523051  
**Lot no.:** LRAC9813  
**Expiry Date:** May 2023  
**Manufacturing Date:** May 2021  
**Storage:** Refrigerate  
**Solvent/Matrix:** Dichloromethane  
**Certificate version:** LRAC9813.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: [www.sigma-aldrich.com](http://www.sigma-aldrich.com) for the most current version.)

**J005199**

SVOA-ABN BASE STOCK-200-800ug/ml  
 Expires 5/31/2023  
 Prepared By Jiangqing Zhou 5/18/2021

| Analyte                                   | Assigned Value | Units | Raw Material Purity, % | Raw Material Lot |
|---|----------------|-------|------------------------|------------------|
| 3,3'-DICHLOROBENZIDINE<br>CAS# 91-94-1    | 802            | µg/mL | 99.9                   | LC27068          |
| 2,4-DINITROTOLUENE<br>CAS# 121-14-2       | 802            | µg/mL | 97.8                   | LB46632          |
| 2,6-DINITROTOLUENE<br>CAS# 606-20-2       | 801            | µg/mL | 99.9                   | LB79891          |
| HEXACHLOROCYCLOPENTADIENE<br>CAS# 77-47-4 | 802            | µg/mL | 96.0                   | LB95525          |
| N-NITROSODIMETHYLAMINE<br>CAS# 62-75-9    | 801            | µg/mL | 95.0                   | 2019-030598<br>5 |
| PERYLENE<br>CAS# 198-55-0                 | 201            | µg/mL | 99.6                   | 04101PG          |
| ANILINE<br>CAS# 62-53-3                   | 803            | µg/mL | 100.0                  | 10126MG          |
| 4-CHLOROANILINE<br>CAS# 106-47-8          | 803            | µg/mL | 100.0                  | MKBZ6909V        |
| 2-NITROANILINE<br>CAS# 88-74-4            | 802            | µg/mL | 99.9                   | LC05068          |
| 3-NITROANILINE<br>CAS# 99-09-2            | 802            | µg/mL | 99.9                   | LC09264          |
| 4-NITROANILINE<br>CAS# 100-01-6           | 802            | µg/mL | 99.9                   | LC11400          |
| PYRIDINE (LOW WATER)<br>CAS# 110-86-1     | 802            | µg/mL | 100.0                  | SHBJ9218         |

**Measurement method:** Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

**Intended use:** Intended for R&D and Analytical Use only. Not for drug, household or other uses.

**Packaging:** 1 mL in amber ampule

**Instructions for handling and correct use:** Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user's location. Open slowly and carefully to avoid dispersion of the material.



**Health and safety information:**

All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

**Certificate issue date:**

12-May-2021



Andy Ommen - QC Manager



Mark Pooler - QA Supervisor

**Certificate of analysis revision history:**

| Certificate version | Date        | Reason for version    |
|---------------------|-------------|-----------------------|
| LRAC9813.01         | 12-May-2021 | Original Release Date |

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## Certificate of Composition - Analytical Standard

## ACID STOCK

**Product no.:** 22523046  
**Lot no.:** LRAC9812  
**Expiry Date:** May 2023  
**Manufacturing Date:** May 2021  
**Storage:** Refrigerate  
**Solvent/Matrix:** Dichloromethane  
**Certificate version:** LRAC9812.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: [www.sigma-aldrich.com](http://www.sigma-aldrich.com) for the most current version.)

**J005200**  
 SVOA-ABN ACID STOCK-200-800ug/ml  
 Solvent / Lot: DCM  
 Prep: 5/18/2021 by JZ  
 Exp: 5/31/2023  
 Location:

 5/18/21

| Analyte                                     | Assigned Value | Units | Raw Material Purity, % | Raw Material Lot |
|---|----------------|-------|------------------------|------------------|
| 2,4-DIMETHYLPHENOL<br>CAS# 105-67-9         | 802            | µg/mL | 99.9                   | LB88935          |
| 2,4-DICHLOROPHENOL<br>CAS# 120-83-2         | 802            | µg/mL | 100.0                  | BCBZ6787         |
| 2,4,5-TRICHLOROPHENOL<br>CAS# 95-95-4       | 802            | µg/mL | 99.9                   | JS00008          |
| 2,4-DINITROPHENOL<br>CAS# 51-28-5           | 1806           | µg/mL | 75.9                   | MKBP5833V        |
| 2,4,6-TRICHLOROPHENOL<br>CAS# 88-06-2       | 803            | µg/mL | 98.7                   | LB82983          |
| 4-CHLORO-3-METHYLPHENOL<br>CAS# 59-50-7     | 801            | µg/mL | 99.9                   | JS00013          |
| 4-NITROPHENOL<br>CAS# 100-02-7              | 801            | µg/mL | 99.9                   | LC10889          |
| 2-METHYL-4,6-DINITROPHENOL<br>CAS# 534-52-1 | 1804           | µg/mL | 99.7                   | LC18338          |
| PENTACHLOROPHENOL<br>CAS# 87-86-5           | 803            | µg/mL | 98.7                   | MKCK8156         |
| BENZOIC ACID<br>CAS# 65-85-0                | 1805           | µg/mL | 99.9                   | LC16514          |

**Measurement method:** Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

**Intended use:** Intended for R&D and Analytical Use only. Not for drug, household or other uses.

**Packaging:** 1 mL in amber ampule

**Instructions for handling and correct use:** Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user's location. Open slowly and carefully to avoid dispersion of the material.

**Health and safety information:** All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.



# Certificate of Analysis

|                |
|----------------|
| <b>J008074</b> |
|----------------|

SVOA PAH STD 2000ug/ml  
 Expires 6/30/2023  
 Prepared By Joshua Rains 8/5/2021

**Product Name:** PAH Standard

**Product Number:** US-106N-1

**Lot Number:** 0006540449

**Lot Issue Date:** 11-Jun-2020

**Expiration Date:** 30-Jun-2023

**Description:**

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte                | CAS#        | Analyte Lot | Concentration ± Uncertainty |
|------------------------|-------------|-------------|-----------------------------|
| acenaphthene           | 000083-32-9 | RM10879     | 2008 ± 10 µg/mL             |
| acenaphthylene         | 000208-96-8 | RM10891     | 2003 ± 10 µg/mL             |
| anthracene             | 000120-12-7 | RM14212     | 2006 ± 10 µg/mL             |
| benz[a]anthracene      | 000056-55-3 | RM16072     | 2006 ± 10 µg/mL             |
| benzo[b]fluoranthene   | 000205-99-2 | RM14571     | 2005 ± 10 µg/mL             |
| benzo[k]fluoranthene   | 000207-08-9 | RM14321     | 2009 ± 10 µg/mL             |
| benzo[ghi]perylene     | 000191-24-2 | RM15761     | 2008 ± 10 µg/mL             |
| benzo[a]pyrene         | 000050-32-8 | RM12669     | 2009 ± 10 µg/mL             |
| chrysene               | 000218-01-9 | RM12260     | 2009 ± 10 µg/mL             |
| dibenz[a,h]anthracene  | 000053-70-3 | RM06786     | 2009 ± 10 µg/mL             |
| fluoranthene           | 000206-44-0 | RM12277     | 2004 ± 10 µg/mL             |
| fluorene               | 000086-73-7 | RM09441     | 2009 ± 10 µg/mL             |
| indeno[1,2,3-cd]pyrene | 000193-39-5 | RM14192     | 2009 ± 10 µg/mL             |
| naphthalene            | 000091-20-3 | NT00970     | 2008 ± 10 µg/mL             |
| phenanthrene           | 000085-01-8 | RM10495     | 2009 ± 10 µg/mL             |
| pyrene                 | 000129-00-0 | RM03479     | 2008 ± 10 µg/mL             |

**Matrix:** methylene chloride/benzene (1:1)



ISO 17034 Cert No.  
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 2

[www.agilent.com/quality/](http://www.agilent.com/quality/)



ISO 17025 Cert  
No. AT-1937

# Certificate of Analysis

**Product Number:** US-106N-1

**Lot Number:** 0006540449

**Storage Conditions:** Store at Room Temperature (15° to 30°C).

**Traceability:**

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

**Homogeneity:**

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Intended Use:**

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

**Hazards:**

Refer to the Safety Data Sheet on [www.agilent.com](http://www.agilent.com) for information regarding this RM.

**Expiration of Certification:**

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

**Maintenance of Certification:**

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

**Sample lot approver:**



Monica Bourgeois  
QMS Representative



ISO 17034 Cert No.  
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

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[www.agilent.com/quality/](http://www.agilent.com/quality/)



ISO 17025 Cert  
No. AT-1937

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## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101244

**Lot Number:** CL16062

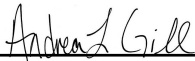
**Description:** Benzidines Standard

**Certification Date:** November 19, 2020

**Storage:** 4 °C

**Expiration Date:** November 30, 2030

**Provided As:** 1 mL in 2 mL Ampoule in Methylene Chloride



Andrea Gill, Certified Reference Materials Manager

| Component              | CAS #   | Certified Value<br>µg/mL | Expanded Uncertainty |
|------------------------|---------|--------------------------|----------------------|
| Benzidine              | 92-87-5 | 2000                     | ± 2.740%             |
| 3,3'-Dichlorobenzidine | 91-94-1 | 2000                     | ± 3.229%             |

**J008310**

Benzidines std @2000ug/ml

Expires 11/30/2030

Prepared By Van Spohn 8/12/2021



# Certificate of Analysis

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31<sup>1</sup> and ISO Guide 35.<sup>2</sup>
2. Quality Standards: Phenova is accredited by A2LA to ISO 17034<sup>3</sup> and ISO/IEC 17025<sup>4</sup> as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at [www.phenova.com/documents](http://www.phenova.com/documents).
6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98<sup>5</sup> and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

## References:

<sup>1</sup> ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.

<sup>2</sup> ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.

<sup>3</sup> ISO 17034 – General Requirements for the Competence of Reference Material Producers.

<sup>4</sup> ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.

<sup>5</sup> ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



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Chemical Testing Laboratory  
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## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101246

**Lot Number:** CL16693

**Description:** Benzoic Acid

**Certification Date:** May 6, 2021

**Storage:** 4 °C

**Expiration Date:** April 30, 2031

**Provided As:** 1 mL in 2 mL Ampoule in Methylene Chloride

*Andrea Gill*

Andrea Gill, Certified Reference Materials Manager

| Component    | CAS #   | Certified Value<br>µg/mL | Expanded Uncertainty |
|--------------|---------|--------------------------|----------------------|
| Benzoic acid | 65-85-0 | 2000                     | ± 4.383%             |

K3238



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# Certificate of Analysis



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1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31<sup>1</sup> and ISO Guide 35.<sup>2</sup>
2. **Quality Standards:** Phenova is accredited by A2LA to ISO 17034<sup>3</sup> and ISO/IEC 17025<sup>4</sup> as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at [www.phenova.com/documents](http://www.phenova.com/documents).
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 25 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98<sup>5</sup> and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).  
$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.
10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

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## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101443

**Lot Number:** CL17696

**Description:** Aniline

**Certification Date:** December 14, 2021

**Storage:** 4 °C

**Expiration Date:** December 31, 2029

**Provided As:** 1 mL in 2 mL Ampoule in Methylene Chloride

*Andrea Gill*

Andrea Gill, Certified Reference Materials Manager

| Component | CAS #   | Certified Value<br>µg/mL | Expanded Uncertainty |
|-----------|---------|--------------------------|----------------------|
| Aniline   | 62-53-3 | 1000                     | ± 0.760%             |

K 3239



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1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31<sup>1</sup> and ISO Guide 35.<sup>2</sup>
2. **Quality Standards:** Phenova is accredited by A2LA to ISO 17034<sup>3</sup> and ISO/IEC 17025<sup>4</sup> as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at [www.phenova.com/documents](http://www.phenova.com/documents).
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98<sup>5</sup> and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$u_{CRM} = k \sqrt{u_M^2 + u_H^2 + u_{LTS}^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

## References:

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- <sup>2</sup> ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
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- <sup>4</sup> ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- <sup>5</sup> ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



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Chemical Testing Laboratory  
Certificate No. 2427.03

# Certificate of Analysis

## BNAs - Sandy Loam 1

*Certified  
Reference  
Material*

### Description

Product ID CRM143-50G  
Lot LRAC8918  
Expiration Date January 2024  
Manufacturing Date January 2021  
Storage Conditions Refrigerate  
Solvent/Matrix SOIL

### Certified Values

| Analyte  | Units | Certified <sup>1,4</sup><br>Value |
|--|-------|-----------------------------------|
| 1,2,4-Trichlorobenzene                                     | µg/Kg | 1477 ± 181                        |
| 1,3-Dichlorobenzene (m-Dichlorobenzene)                    | µg/Kg | 1625 ± 292                        |
| 1-Chloronaphthalene  | µg/Kg | 2809 ± 84                         |
| 2,3-Dimethylphenol   | µg/Kg | 4552 ± 137                        |
| 2,4,5-Trichlorophenol                                      | µg/Kg | 3438 ± 245                        |
| 2,4,6-Trichlorophenol                                      | µg/Kg | 2194 ± 251                        |
| 2,4-Dichlorophenol   | µg/Kg | 6991 ± 394                        |
| 2,4-Dimethylphenol   | µg/Kg | 6357 ± 879                        |
| 2,4-Dinitrophenol  | µg/Kg | 2922 ± 523                        |
| 2,4-Dinitrotoluene (2,4-DNT)                               | µg/Kg | 3318 ± 442                        |
| 2,6-Dichlorophenol   | µg/Kg | 4578 ± 874                        |
| 2,6-Dimethylphenol   | µg/Kg | 7582 ± 228                        |
| 2-Chloronaphthalene  | µg/Kg | 2223 ± 168                        |
| 2-Chlorophenol   | µg/Kg | 1678 ± 202                        |
| 2-Methyl-4,6-dinitrophenol<br>(4,6-Dinitro-2-methylphenol) | µg/Kg | 5148 ± 685                        |
| 2-Methylphenol (o-Cresol)                                  | µg/Kg | 6004 ± 573                        |
| 2-Nitrophenol  | µg/Kg | 6456 ± 383                        |
| 3,4-Dimethylphenol   | µg/Kg | 7185 ± 216                        |
| 3+4-Methylphenol (m+p-Cresol)                              | µg/Kg | 8033 ± 1613                       |
| 4-Bromophenyl phenyl ether (BDE-3)                         | µg/Kg | 7169 ± 310                        |
| 4-Chloro-3-methylphenol                                    | µg/Kg | 2071 ± 110                        |
| 4-Chlorophenyl phenylether                                 | µg/Kg | 2052 ± 113                        |
| 4-Methylphenol (p-Cresol)                                  | µg/Kg | 6617 ± 1371                       |
| 4-Nitrophenol  | µg/Kg | 6812 ± 595                        |
| Acenaphthene   | µg/Kg | 5489 ± 380                        |



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## Description

Lot **LRAC8918**  
Expiration Date January 2024  
Manufacturing Date January 2021  
Storage Conditions Refrigerate  
Solvent/Matrix SOIL

|  |       |            |
|--|-------|------------|
| Acenaphthylene   | µg/Kg | 1948 ± 240 |
| Anthracene   | µg/Kg | 2866 ± 237 |
| Benzo(a)anthracene   | µg/Kg | 5751 ± 552 |
| Benzo(a)pyrene   | µg/Kg | 5902 ± 612 |
| Benzo(b)fluoranthene   | µg/Kg | 3010 ± 409 |
| Benzo(b+k)fluoranthene   | µg/Kg | 6534 ± 196 |
| Benzo(g,h,i)perylene   | µg/Kg | 1380 ± 136 |
| Benzo(k)fluoranthene   | µg/Kg | 2215 ± 237 |
| Butyl benzyl phthalate   | µg/Kg | 3511 ± 384 |
| Carbazole  | µg/Kg | 5412 ± 407 |
| Chrysene   | µg/Kg | 1477 ± 72  |
| Di(2-ethylhexyl) phthalate<br>(bis(2-Ethylhexyl)phthalate, DEHP) | µg/Kg | 2905 ± 321 |
| Dibenzo(a,h)anthracene   | µg/Kg | 3420 ± 302 |
| Dibenzofuran   | µg/Kg | 6130 ± 253 |
| Dimethyl phthalate   | µg/Kg | 4537 ± 250 |
| Di-n-butyl phthalate   | µg/Kg | 1721 ± 154 |
| Di-n-octyl phthalate   | µg/Kg | 2744 ± 288 |
| Fluoranthene   | µg/Kg | 2497 ± 222 |
| Fluorene   | µg/Kg | 3724 ± 222 |
| Hexachlorobutadiene  | µg/Kg | 1877 ± 245 |
| Indeno(1,2,3-cd) pyrene  | µg/Kg | 3914 ± 409 |
| Isophorone   | µg/Kg | 1615 ± 170 |
| Naphthalene  | µg/Kg | 4458 ± 480 |
| Nitrobenzene   | µg/Kg | 3539 ± 266 |
| n-Nitrosodimethylamine   | µg/Kg | 1580 ± 402 |
| n-Nitrosodiphenylamine   | µg/Kg | 2854 ± 379 |
| Pentachlorophenol  | µg/Kg | 3411 ± 358 |
| Phenanthrene   | µg/Kg | 5052 ± 385 |
| Phenol   | µg/Kg | 2660 ± 184 |
| Pyrene   | µg/Kg | 2964 ± 256 |
| Pyridine   | µg/Kg | 1008 ± 30  |

## Informational Values



# Certificate of Analysis

## BNAs - Sandy Loam 1

*Certified  
Reference  
Material*

### Description

**Product ID** CRM143-50G  
**Lot** LRAC8918  
**Expiration Date** January 2024  
**Manufacturing Date** January 2021  
**Storage Conditions** Refrigerate  
**Solvent/Matrix** SOIL

| Analyte  | Units | Suggested Acceptance Windows | Standard Deviation |
|--|-------|------------------------------|--------------------|
| 1,2,4-Trichlorobenzene                                     | µg/Kg | 148 to 2853                  | 459                |
| 1,3-Dichlorobenzene<br>(m-Dichlorobenzene)                 | µg/Kg | 163 to 3440                  | 605                |
| 1-Chloronaphthalene  | µg/Kg | 1123 to 4494                 | 562                |
| 2,3-Dimethylphenol   | µg/Kg | 1821 to 7284                 | 910                |
| 2,4,5-Trichlorophenol                                      | µg/Kg | 1003 to 5872                 | 811                |
| 2,4,6-Trichlorophenol                                      | µg/Kg | 640 to 3748                  | 518                |
| 2,4-Dichlorophenol   | µg/Kg | 2391 to 11591                | 1533               |
| 2,4-Dimethylphenol   | µg/Kg | 0.00 to 13959                | 2534               |
| 2,4-Dinitrophenol  | µg/Kg | 1169 to 4675                 | 584                |
| 2,4-Dinitrotoluene (2,4-DNT)                               | µg/Kg | 1248 to 5388                 | 690                |
| 2,6-Dichlorophenol   | µg/Kg | 1831 to 7324                 | 916                |
| 2,6-Dimethylphenol   | µg/Kg | 3033 to 12132                | 1516               |
| 2-Chloronaphthalene  | µg/Kg | 748 to 3699                  | 492                |
| 2-Chlorophenol   | µg/Kg | 415 to 2942                  | 421                |
| 2-Methyl-4,6-dinitrophenol<br>(4,6-Dinitro-2-methylphenol) | µg/Kg | 0.00 to 10347                | 1733               |
| 2-Methylphenol (o-Cresol)                                  | µg/Kg | 1306 to 10702                | 1566               |
| 2-Nitrophenol  | µg/Kg | 1534 to 11379                | 1641               |
| 3,4-Dimethylphenol   | µg/Kg | 2874 to 11495                | 1437               |
| 3+4-Methylphenol (m+p-Cresol)                              | µg/Kg | 4054 to 16218                | 2027               |
| 4-Bromophenyl phenyl ether (BDE-3)                         | µg/Kg | 2901 to 11437                | 1423               |
| 4-Chloro-3-methylphenol                                    | µg/Kg | 677 to 3464                  | 464                |
| 4-Chlorophenyl phenylether                                 | µg/Kg | 756 to 3348                  | 432                |
| 4-Methylphenol (p-Cresol)                                  | µg/Kg | 2647 to 10587                | 1323               |
| 4-Nitrophenol  | µg/Kg | 681 to 14762                 | 2650               |
| Acenaphthene   | µg/Kg | 2243 to 8736                 | 1082               |
| Acenaphthylene   | µg/Kg | 712 to 3183                  | 412                |
| Anthracene   | µg/Kg | 1218 to 4515                 | 550                |
| Benzo(a)anthracene   | µg/Kg | 2806 to 8696                 | 982                |
| Benzo(a)pyrene   | µg/Kg | 2512 to 9292                 | 1130               |
| Benzo(b)fluoranthene                                       | µg/Kg | 1197 to 4822                 | 604                |
| Benzo(b+k)fluoranthene                                     | µg/Kg | 2614 to 10454                | 1307               |



**SIGMA-ALDRICH®**

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800-325-5832  
TechService@milliporesigma.com www.sigma-aldrich.com

## Description

Lot **LRAC8918**  
Expiration Date January 2024  
Manufacturing Date January 2021  
Storage Conditions Refrigerate  
Solvent/Matrix SOIL

|   |       |              |      |
|---|-------|--------------|------|
| Benzo(g,h,i)perylene  | µg/Kg | 489 to 2271  | 297  |
| Benzo(k)fluoranthene  | µg/Kg | 892 to 3537  | 441  |
| Butyl benzyl phthalate  | µg/Kg | 1255 to 5766 | 752  |
| Carbazole   | µg/Kg | 2032 to 8792 | 1127 |
| Chrysene  | µg/Kg | 669 to 2284  | 269  |
| Di(2-ethylhexyl) phthalate<br>(bis(2-Ethylhexyl)phthalate,<br>DEHP) | µg/Kg | 765 to 5045  | 713  |
| Dibenzo(a,h)anthracene  | µg/Kg | 1257 to 5583 | 721  |
| Dibenzofuran  | µg/Kg | 2766 to 9493 | 1121 |
| Dimethyl phthalate  | µg/Kg | 1842 to 7231 | 898  |
| Di-n-butyl phthalate  | µg/Kg | 495 to 2947  | 409  |
| Di-n-octyl phthalate  | µg/Kg | 690 to 4798  | 685  |
| Fluoranthene  | µg/Kg | 984 to 4009  | 504  |
| Fluorene  | µg/Kg | 1638 to 5810 | 695  |
| Hexachlorobutadiene   | µg/Kg | 425 to 3329  | 484  |
| Indeno(1,2,3-cd) pyrene   | µg/Kg | 870 to 6957  | 1015 |
| Isophorone  | µg/Kg | 437 to 2792  | 392  |
| Naphthalene   | µg/Kg | 1131 to 7784 | 1109 |
| Nitrobenzene  | µg/Kg | 1024 to 6054 | 838  |
| n-Nitrosodimethylamine  | µg/Kg | 632 to 2528  | 316  |
| n-Nitrosodiphenylamine  | µg/Kg | 1142 to 4567 | 571  |
| Pentachlorophenol   | µg/Kg | 341 to 7037  | 1209 |
| Phenanthrene  | µg/Kg | 2307 to 7798 | 915  |
| Phenol  | µg/Kg | 681 to 4639  | 660  |
| Pyrene  | µg/Kg | 1118 to 4810 | 615  |
| Pyridine  | µg/Kg | 403 to 1613  | 202  |

### Additional Information:

#### DESCRIPTION

The organic sample is a soil containing extractable BNAs for analysis by 8100, 8270, 8310 or equivalent methods.

This product consist of a 5 vials each containing 10g of soil for analysis of PAHs. Each vial is identical and has been tested how homogeneity. Only one vial is need for test the remaining vials are to be used for multiple methods or routine testing.

The soil has been sterilized to minimize degradation of the sample.

The sample has been sized to 100 mesh.

Required storage condition is 4°C.

The sample has been intentionally prepared with an apparent headspace.

#### STORAGE

The sample should be stored at 4°C. It has been determined to be stable for the duration of the expiration date.

After sub-sampling replace cap securely and store remaining sample at 4°C.

The shelf life of the product was determined by historic stability of similar CRM's. The expiration date may be extended based on stock and popularity upon successful stability testing by a 17025 accredited laboratory.





# Certificate of Analysis

## BNAs - Sandy Loam 1

*Certified  
Reference  
Material*

### Description

**Product ID** CRM143-50G  
**Lot** LRAC8918  
**Expiration Date** January 2024  
**Manufacturing Date** January 2021  
**Storage Conditions** Refrigerate  
**Solvent/Matrix** SOIL

Stability and shelf life after opening must be determined by the user, taking into account sampling frequency/volume and all local conditions.

### SAMPLE PREPARATION

Extract the complete contents of a single vial. Transfer entire contents of one vial to extraction vessel. Rinse vial and cap with extraction solvent.

Assume a 10g sample size for all calculations.

Note: Sample extracts and calibration solutions should be in the same solvent.

Report all results on a wet weight basis, do not correct for moisture.

NOTE: For method 8100 and using a packed column gas chromatographic method or cannot adequately resolve the following may coelute in four pairs of compounds: anthracene and phenanthrene; chrysene and benzo(a)anthracene; benzo(b)fluoranthene and benzo(k)fluoranthene; and dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene.

### SCOPE AND APPLICATION

The BNAs in Soil Certified Reference Material (CRM) consists of 5 10mL VOA vials, with a Teflon lined closures containing approximately 10 grams of soil, fortified with BNAs. Being a natural matrix waste sample the analyst is challenged by the same preparation problems, analytical interferences, etc. as is typical for similar matrices received by the laboratory for analysis.



**SIGMA-ALDRICH®**

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# Description

Lot **LRAC8918**  
Expiration Date January 2024  
Manufacturing Date January 2021  
Storage Conditions Refrigerate  
Solvent/Matrix SOIL

**1 Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.  
**4 Ucrm - Uncertainty** values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. K=2 unless specified. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

**k:** Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

**6 Analytical Value-** For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

**Traceability:** The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

**Homogeneity:** Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH ISO/IEC 17025:2017 (ANAB Cert AT-1467) and ISO 17034:2016 (ANAB Cert AR-1470).



Andy Ommen - QC Manager



Mark Pooler - QA Supervisor

**Certification Date** January 05, 2021  
**Version** 0-152021



# Certificate of Analysis



Phenova Certified Reference Materials are sold by Phenomenex.

411 Madrid Ave., Torrance, CA 90501 USA ■ Tel: 310-212-0555 ■ Fax: 310-328-7768 ■ info@phenomenex.com

Access your MSDS and digital C of A at [www.phenomenex.com/mysupport](http://www.phenomenex.com/mysupport). Re-order at [www.phenomenex.com/standards](http://www.phenomenex.com/standards)

## Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

**Catalog No.:** AL0-101291

**Lot Number:** CL11000

**Description:** GC/MS Tuning Mix

**Certification Date:** May 9, 2014

**Storage:** 4 °C

**Expiration Date:** December 31, 2023

**Provided As:** 1 mL in 2 mL Ampoule in Methylene chloride

**Revision Date:** August 5, 2015

Andrea Gill, Certified Reference Materials Manager

| Component                            | CAS #     | Certified Value<br>µg/mL | Expanded Uncertainty<br>(%) |
|--------------------------------------|-----------|--------------------------|-----------------------------|
| Benzidine                            | 92-87-5   | 1000                     | ± 0.208%                    |
| Decafluorotriphenylphosphine (DFTPP) | 5074-71-5 | 1000                     | ± 0.057%                    |
| 4,4'-DDT                             | 50-29-3   | 1000                     | ± 0.056%                    |
| Pentachlorophenol                    | 87-86-5   | 1000                     | ± 0.061%                    |

### K003891

GC/MS Tune solution-1000ug/ml

Solvent / Lot: CL11000

Prep: 4/22/2022 by VS

Exp: 12/31/2023

Location:



Reference Material Producer  
Certificate No. 2427.02



Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC-MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory  
Certificate No. 2427.03

IL11110612\_us



Reference Materials Producer  
Cert #2495.01



## Certificate of Analysis



Chemical Testing  
Cert #2495.02

**Catalog Number:** ECS-A-030 **Lot No.** AA210126005  
**Description:** Base/Neutrals Mix 1  
**Matrix:** Methylene Chloride **Manufactured Date:** 1-26-2021  
**Expiration Date:** 1-26-2024

This SPEXOrganics® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

### Certified Compounds:

| <u>Compound</u>                   | <u>CAS #</u> | <u>Labeled</u> | <u>Purity</u> | <u>Certified†</u> | <u>Uncertainty</u> |
|-----------------------------------|--------------|----------------|---------------|-------------------|--------------------|
| 1,2,4-Trichlorobenzene            | 120-82-1     | 2000 µg/mL     | 99%           | 2010 µg/mL        | ± 50 µg/mL         |
| 1,2-Dichlorobenzene               | 95-50-1      | 2000 µg/mL     | 99%           | 2002 µg/mL        | ± 50 µg/mL         |
| 1,3-Dichlorobenzene               | 541-73-1     | 2000 µg/mL     | 98%           | 2021 µg/mL        | ± 51 µg/mL         |
| 1,4-Dichlorobenzene               | 106-46-7     | 2000 µg/mL     | 99%           | 2012 µg/mL        | ± 50 µg/mL         |
| 2,4-Dinitrotoluene                | 121-14-2     | 2000 µg/mL     | 97%           | 2006 µg/mL        | ± 50 µg/mL         |
| 2,6-Dinitrotoluene                | 606-20-2     | 2000 µg/mL     | 99.6%         | 2012 µg/mL        | ± 50 µg/mL         |
| 2-Chloronaphthalene               | 91-58-7      | 2000 µg/mL     | 98%           | 2004 µg/mL        | ± 50 µg/mL         |
| 4-Bromodiphenyl ether             | 101-55-3     | 2000 µg/mL     | 99%           | 2022 µg/mL        | ± 51 µg/mL         |
| 4-Chlorophenyl-phenyl ether       | 7005-72-3    | 2000 µg/mL     | 98%           | 2001 µg/mL        | ± 50 µg/mL         |
| Azobenzene                        | 103-33-3     | 2000 µg/mL     | 98%           | 2001 µg/mL        | ± 50 µg/mL         |
| Bis(2-chloro-1-methylethyl) ether | 108-60-1     | 2000 µg/mL     | 98.9%         | 2010 µg/mL        | ± 50 µg/mL         |
| bis(2-Chloroethoxy)methane        | 111-91-1     | 2000 µg/mL     | 97%           | 2001 µg/mL        | ± 50 µg/mL         |
| bis(2-Chloroethyl)ether           | 111-44-4     | 2000 µg/mL     | 99%           | 2002 µg/mL        | ± 50 µg/mL         |
| Bis(2-Ethylhexyl)phthalate        | 117-81-7     | 2000 µg/mL     | 99%           | 2003 µg/mL        | ± 50 µg/mL         |
| Butylbenzyl phthalate             | 85-68-7      | 2000 µg/mL     | 98%           | 2000 µg/mL        | ± 50 µg/mL         |
| Carbazole                         | 86-74-8      | 2000 µg/mL     | 95%           | 2009 µg/mL        | ± 50 µg/mL         |
| Di-n-butyl phthalate              | 84-74-2      | 2000 µg/mL     | 99%           | 2020 µg/mL        | ± 50 µg/mL         |
| Di-n-octyl phthalate              | 117-84-0     | 2000 µg/mL     | 98%           | 2000 µg/mL        | ± 50 µg/mL         |
| Diethyl phthalate                 | 84-66-2      | 2000 µg/mL     | 99.5%         | 2002 µg/mL        | ± 50 µg/mL         |
| Dimethyl phthalate                | 131-11-3     | 2000 µg/mL     | 99%           | 2006 µg/mL        | ± 50 µg/mL         |
| Hexachlorobenzene                 | 118-74-1     | 2000 µg/mL     | 99%           | 2003 µg/mL        | ± 50 µg/mL         |
| Hexachlorobutadiene               | 87-68-3      | 2000 µg/mL     | 97%           | 2003 µg/mL        | ± 50 µg/mL         |
| Hexachlorocyclopentadiene         | 77-47-4      | 2000 µg/mL     | 99%           | 2003 µg/mL        | ± 50 µg/mL         |
| Hexachloroethane                  | 67-72-1      | 2000 µg/mL     | 98%           | 2003 µg/mL        | ± 50 µg/mL         |
| Isophorone                        | 78-59-1      | 2000 µg/mL     | 97%           | 2003 µg/mL        | ± 50 µg/mL         |
| N-Nitrosodi-n-propylamine         | 621-64-7     | 2000 µg/mL     | 98%           | 2000 µg/mL        | ± 50 µg/mL         |
| N-Nitrosodiphenylamine            | 86-30-6      | 2000 µg/mL     | 97%           | 2001 µg/mL        | ± 50 µg/mL         |
| Nitrobenzene                      | 98-95-3      | 2000 µg/mL     | 99%           | 2001 µg/mL        | ± 50 µg/mL         |
| Pyridine                          | 110-86-1     | 2000 µg/mL     | 99%           | 2004 µg/mL        | ± 50 µg/mL         |
| N-Nitrosodimethylamine            | 62-75-9      | 2000 µg/mL     | 97%           | 2000 µg/mL        | ± 50 µg/mL         |



# Report of Certification

**Catalog Number:** ECS-A-030 **Lot No.** AA210126005  
**Description:** Base/Neutrals Mix 1  
**Matrix:** Methylene Chloride **Manufactured Date:** 1-26-2021  
**Expiration Date:** 1-26-2024

**This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:**

- ISO 9001:2008: Quality management systems - Requirements - Certified by UL-DQS
- ISO 17025:2005: General Requirements for the Competence of Testing and Calibration Laboratories - Accredited by A2LA
- ISO Guide 34:2009: General Requirements for the Competence of Reference Material Producers - Accredited by A2LA
- ISO Guide 31:2000: Reference Materials - Contents of Certificates and Labels
- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement 1997
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference material producers
- ISO/REMCO N280

## **Storage Requirements:**

To ensure the stability of the product once it arrives in your laboratory, please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

## **Instructions for Use:**

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5 µL with a 25 µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

## **Material Source:**

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

## **Method of Preparation:**

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been used in all preparations.

## **Homogeneity:**

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

## **Statistical Estimator and Confidence Limits:**

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$  where X=certified value, U=expanded uncertainty, x=property value
- $U = k u_c$  where k=2 is the coverage factor at the 95% confidence level
- $u_c$  = combined standard uncertainty obtained by combining the individual compound standard uncertainty components  $u_i$ , where  $u_c = \sqrt{\sum u_i^2}$

## **Legal Notice:**

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breach of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

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## Certificate of Analysis

**Catalog Number:** ECS-A-030

**Lot No.** AA210126005

**Description:** Base/Neutrals Mix 1

**Matrix:** Methylene Chloride

**Manufactured Date:** 1-26-2021

**Expiration Date:** 1-26-2024

This SPEXOrganics® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

### Certified Compounds:

| <u>Compound</u>                   | <u>CAS #</u> | <u>Labeled</u> | <u>Purity</u> | <u>Certified†</u> | <u>Uncertainty</u> |
|-----------------------------------|--------------|----------------|---------------|-------------------|--------------------|
| 1,2,4-Trichlorobenzene            | 120-82-1     | 2000 µg/mL     | 99%           | 2010 µg/mL        | ± 50 µg/mL         |
| 1,2-Dichlorobenzene               | 95-50-1      | 2000 µg/mL     | 99%           | 2002 µg/mL        | ± 50 µg/mL         |
| 1,3-Dichlorobenzene               | 541-73-1     | 2000 µg/mL     | 98%           | 2021 µg/mL        | ± 51 µg/mL         |
| 1,4-Dichlorobenzene               | 106-46-7     | 2000 µg/mL     | 99%           | 2012 µg/mL        | ± 50 µg/mL         |
| 2,4-Dinitrotoluene                | 121-14-2     | 2000 µg/mL     | 97%           | 2006 µg/mL        | ± 50 µg/mL         |
| 2,6-Dinitrotoluene                | 606-20-2     | 2000 µg/mL     | 99.6%         | 2012 µg/mL        | ± 50 µg/mL         |
| 2-Chloronaphthalene               | 91-58-7      | 2000 µg/mL     | 98%           | 2004 µg/mL        | ± 50 µg/mL         |
| 4-Bromodiphenyl ether             | 101-55-3     | 2000 µg/mL     | 99%           | 2022 µg/mL        | ± 51 µg/mL         |
| 4-Chlorophenyl-phenyl ether       | 7005-72-3    | 2000 µg/mL     | 98%           | 2001 µg/mL        | ± 50 µg/mL         |
| Azobenzene                        | 103-33-3     | 2000 µg/mL     | 98%           | 2001 µg/mL        | ± 50 µg/mL         |
| Bis(2-chloro-1-methylethyl) ether | 108-60-1     | 2000 µg/mL     | 98.9%         | 2010 µg/mL        | ± 50 µg/mL         |
| bis(2-Chloroethoxy)methane        | 111-91-1     | 2000 µg/mL     | 97%           | 2001 µg/mL        | ± 50 µg/mL         |
| bis(2-Chloroethyl)ether           | 111-44-4     | 2000 µg/mL     | 99%           | 2002 µg/mL        | ± 50 µg/mL         |
| Bis(2-Ethylhexyl)phthalate        | 117-81-7     | 2000 µg/mL     | 99%           | 2003 µg/mL        | ± 50 µg/mL         |
| Butylbenzyl phthalate             | 85-68-7      | 2000 µg/mL     | 98%           | 2000 µg/mL        | ± 50 µg/mL         |
| Carbazole                         | 86-74-8      | 2000 µg/mL     | 95%           | 2009 µg/mL        | ± 50 µg/mL         |
| Di-n-butyl phthalate              | 84-74-2      | 2000 µg/mL     | 99%           | 2020 µg/mL        | ± 50 µg/mL         |
| Di-n-octyl phthalate              | 117-84-0     | 2000 µg/mL     | 98%           | 2000 µg/mL        | ± 50 µg/mL         |
| Diethyl phthalate                 | 84-66-2      | 2000 µg/mL     | 99.5%         | 2002 µg/mL        | ± 50 µg/mL         |
| Dimethyl phthalate                | 131-11-3     | 2000 µg/mL     | 99%           | 2006 µg/mL        | ± 50 µg/mL         |
| Hexachlorobenzene                 | 118-74-1     | 2000 µg/mL     | 99%           | 2003 µg/mL        | ± 50 µg/mL         |
| Hexachlorobutadiene               | 87-68-3      | 2000 µg/mL     | 97%           | 2003 µg/mL        | ± 50 µg/mL         |
| Hexachlorocyclopentadiene         | 77-47-4      | 2000 µg/mL     | 99%           | 2003 µg/mL        | ± 50 µg/mL         |
| Hexachloroethane                  | 67-72-1      | 2000 µg/mL     | 98%           | 2003 µg/mL        | ± 50 µg/mL         |
| Isophorone                        | 78-59-1      | 2000 µg/mL     | 97%           | 2003 µg/mL        | ± 50 µg/mL         |
| N-Nitrosodi-n-propylamine         | 621-64-7     | 2000 µg/mL     | 98%           | 2000 µg/mL        | ± 50 µg/mL         |
| N-Nitrosodiphenylamine            | 86-30-6      | 2000 µg/mL     | 97%           | 2001 µg/mL        | ± 50 µg/mL         |
| Nitrobenzene                      | 98-95-3      | 2000 µg/mL     | 99%           | 2001 µg/mL        | ± 50 µg/mL         |
| Pyridine                          | 110-86-1     | 2000 µg/mL     | 99%           | 2004 µg/mL        | ± 50 µg/mL         |
| N-Nitrosodimethylamine            | 62-75-9      | 2000 µg/mL     | 97%           | 2000 µg/mL        | ± 50 µg/mL         |

K004542

## Certificate of Reference Material

**Catalog Number:** ECS-A-030

**Lot No.** AA210126005

**Description:** Base/Neutrals Mix 1

**Matrix:** Methylene Chloride

**Manufactured Date:** 1-26-2021

**Expiration Date:** 1-26-2024

### **Final Solution Verification:**

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-26-2021

Certifying Officer: Shannon Moore







# Certificate of Analysis

**Product Name:** Toxic Substances Standard

**Product Number:** US-104N-1

**Lot Issue Date:** 02-Jul-2021

**Lot Number:** 0006620643

**Expiration Date:** 31-Jul-2023

**Description:**

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte             | CAS#        | Analyte Lot | Concentration ± Uncertainty |
|---------------------|-------------|-------------|-----------------------------|
| aniline             | 000062-53-3 | RM12853     | 2005 ± 10 µg/mL             |
| benzyl alcohol      | 000100-51-6 | RM10547     | 2004 ± 10 µg/mL             |
| 4-chloroaniline     | 000106-47-8 | RM01886     | 2002 ± 10 µg/mL             |
| dibenzofuran        | 000132-64-9 | RM02077     | 2002 ± 10 µg/mL             |
| 2-methylnaphthalene | 000091-57-6 | RM01258     | 2006 ± 10 µg/mL             |
| 2-nitroaniline      | 000088-74-4 | RM02402     | 2003 ± 10 µg/mL             |
| 3-nitroaniline      | 000099-09-2 | RM02424     | 2003 ± 10 µg/mL             |
| 4-nitroaniline      | 000100-01-6 | RM02425     | 2003 ± 10 µg/mL             |

**Matrix:** methylene chloride (dichloromethane)

**Storage Conditions:** Store at Room Temperature (15° to 30°C).

**Traceability:**

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

**Homogeneity:**

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Intended Use:**

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

**K004544**

toxic sub mix#2

Solvent / Lot: methylene chloride

Prep: 5/11/2022 by JZ

Exp: 7/31/2023

Location:

*JZ* 05/11/22



ISO 17034 Cert  
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 2

[www.agilent.com/quality/](http://www.agilent.com/quality/)  
CSD-QA-015.1



ISO 17025 Cert  
No. AT-1937



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 31493 Lot No.: A0181243
Description: CLP 04.1 BNA Surrogate Mix
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: October 31, 2025 Storage: 10°C or colder
Handling: Sonicate prior to use. Ship: Ambient

Handwritten signature and date: 05/11/22

K004545
CLP 04.1 BNA SURR MIX
Solvent / Lot: AO175316
Prep: 5/11/2022 by JZ
Exp: 10/20/2025
Location:

Table with 7 columns: Elution Order, Compound, CAS #, Purity, Weight, Concentration, and Method. Contains 7 rows of data for various compounds like 2-Fluorophenol, Phenol-d6, etc.

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## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101246

**Lot Number:** CL17953

**Description:** Benzoic Acid

**Certification Date:** January 31, 2022

**Storage:** 4 °C

**Expiration Date:** January 31, 2032

**Provided As:** 1 mL in 2 mL Ampoule in Methylene Chloride



Andrea Gill, Certified Reference Materials Manager

| Component    | CAS #   | Certified Value<br>µg/mL | Expanded Uncertainty |
|--------------|---------|--------------------------|----------------------|
| Benzoic acid | 65-85-0 | 2000                     | ± 2.714%             |

**K004603**

Benzoic Acid @2000ug/ml

Solvent / Lot: N/A

Prep: 5/13/2022 by JZ

Exp: 1/31/2032

Location: GC



Reference Material Producer  
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material  
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.





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## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101244

**Lot Number:** CL17662

**Description:** Benzidines Standard

**Certification Date:** December 2, 2021

**Storage:** 4 °C

**Expiration Date:** November 30, 2031

**Provided As:** 1 mL in 2 mL Ampoule in Methylene Chloride

*Andrea Gill*

Andrea Gill, Certified Reference Materials Manager

| Component              | CAS #   | Certified Value<br>µg/mL | Expanded Uncertainty |
|------------------------|---------|--------------------------|----------------------|
| Benzidine              | 92-87-5 | 2000                     | ± 0.211%             |
| 3,3'-Dichlorobenzidine | 91-94-1 | 2000                     | ± 1.305%             |

**K004604**

Benzidines std @2000ug/ml  
Solvent / Lot: Mecl2  
Prep: 5/13/2022 by JZ  
Exp: 11/30/2031  
Location: GC

*JZ 5/13/22*



Reference Material Producer  
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material  
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

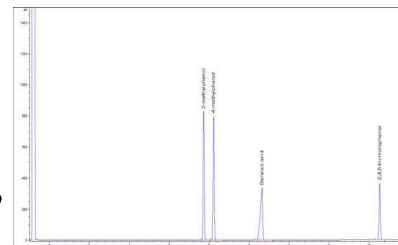


Chemical Testing Laboratory  
Certificate No. 2427.03

# Certificate of Analysis - Certified Reference Material

## EPA TCL Hazardous Substances Mix 1

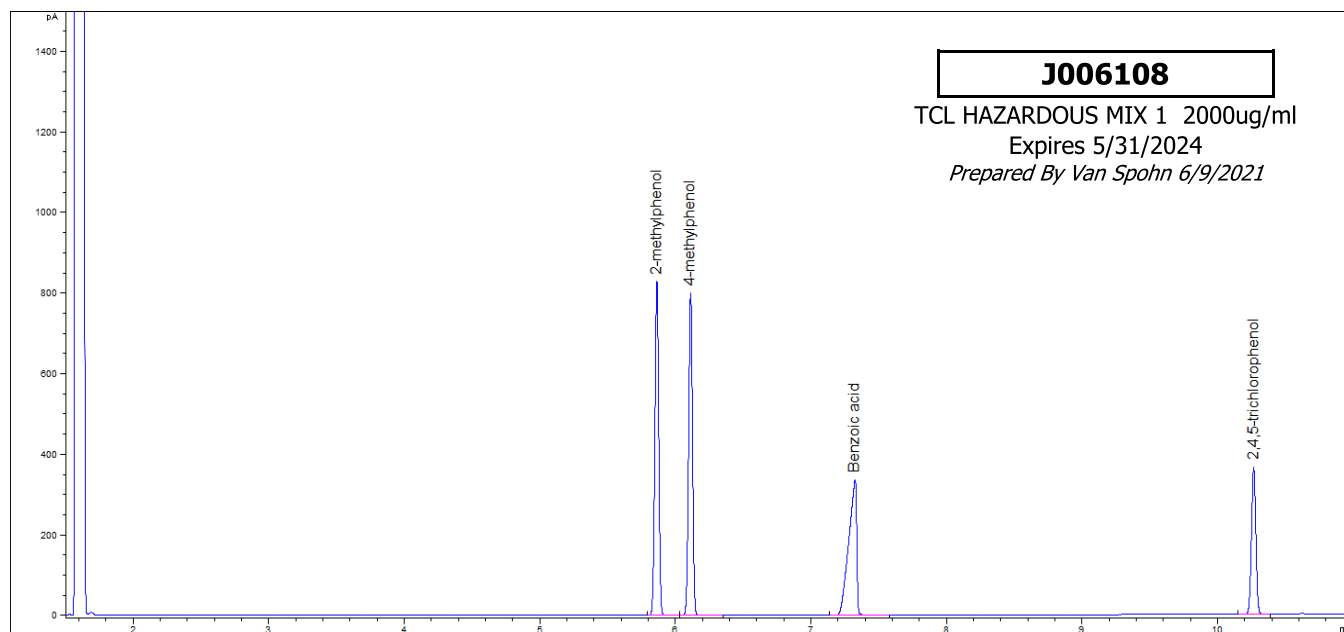
**Product no.:** 48907  
**Lot no.:** LRAC9610  
**Expiry Date:** May 2024  
**Manufacturing Date:** May 2021  
**Storage:** Refrigerate  
**Solvent/Matrix:** DICHLOROMETHANE  
**Certificate version:** LRAC9610.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: [www.sigma-aldrich.com](http://www.sigma-aldrich.com) for the most current version.)



### Certified Values:

| Analyte                               | Certified Value | Units | Raw Material Purity, % | Elution order | Raw Material Lot |
|---------------------------------------|-----------------|-------|------------------------|---------------|------------------|
| 2-METHYLPHENOL<br>CAS# 95-48-7        | 2004 ± 9        | µg/mL | 99.0                   | 1             | G1735A           |
| 4-METHYLPHENOL<br>CAS# 106-44-5       | 2004 ± 13       | µg/mL | 98.9                   | 2             | 06921MG          |
| BENZOIC ACID<br>CAS# 65-85-0          | 2012 ± 6        | µg/mL | 99.9                   | 3             | LC16514          |
| 2,4,5-TRICHLOROPHENOL<br>CAS# 95-95-4 | 2003 ± 6        | µg/mL | 99.9                   | 4             | JS00008          |

### Informational Values:



### Additional Information:

**Analytical Method Parameters:**  
 Column: Equity-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #98)  
 Carrier Gas: H<sub>2</sub>, Flow: 4.5 mL/min  
 Inlet Temperature: 170 °C, Injection Volume: 1 µL  
 Injection Mode: Split, Split Ratio: 20:1



Temperature Program: 80 °C @ 10 °C/min to 190 °C (Hold 5 min)  
Detector: FID  
Detector Temperature: 310 °C

**Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

**Measurement method:** Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

**Intended use:** Intended for R&D and Analytical Use only. Not for drug, household or other uses.

**Packaging:** 1 mL in amber ampule

**Instructions for handling and correct use:** Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

**Health and safety information:** All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

**Accreditation:** Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

**Certificate issue date:** 20-May-2021



Handwritten signature of Andy Ommen in black ink.

Andy Ommen - QC Manager

Handwritten signature of Mark Pooler in black ink.

Mark Pooler - QA Supervisor

**Details on metrological traceability:** This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

**Associated uncertainty:** Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

**Homogeneity assessment:** Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

**Stability assessment:**

Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

**Certificate of analysis revision history:**

| Certificate version | Date        | Reason for version    |
|---------------------|-------------|-----------------------|
| LRAC9610.01         | 20-May-2021 | Original Release Date |

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The life science business of Merck KGaA, Darmstadt, Germany  
operates as MilliporeSigma in the US and Canada.

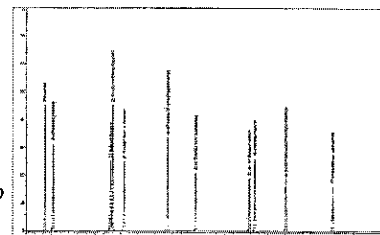




# Certificate of Analysis - Certified Reference Material

## EPA TCL Phenols Mix

**Product no.:** 48904  
**Lot no.:** LRAD0139  
**Expiry Date:** July 2024  
**Manufacturing Date:** July 2021  
**Storage:** REFRIGERATE  
**Solvent/Matrix:** DICHLOROMETHANE  
**Certificate version:** LRAD0139.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: [www.sigma-aldrich.com](http://www.sigma-aldrich.com) for the most current version.)



### Certified Values:

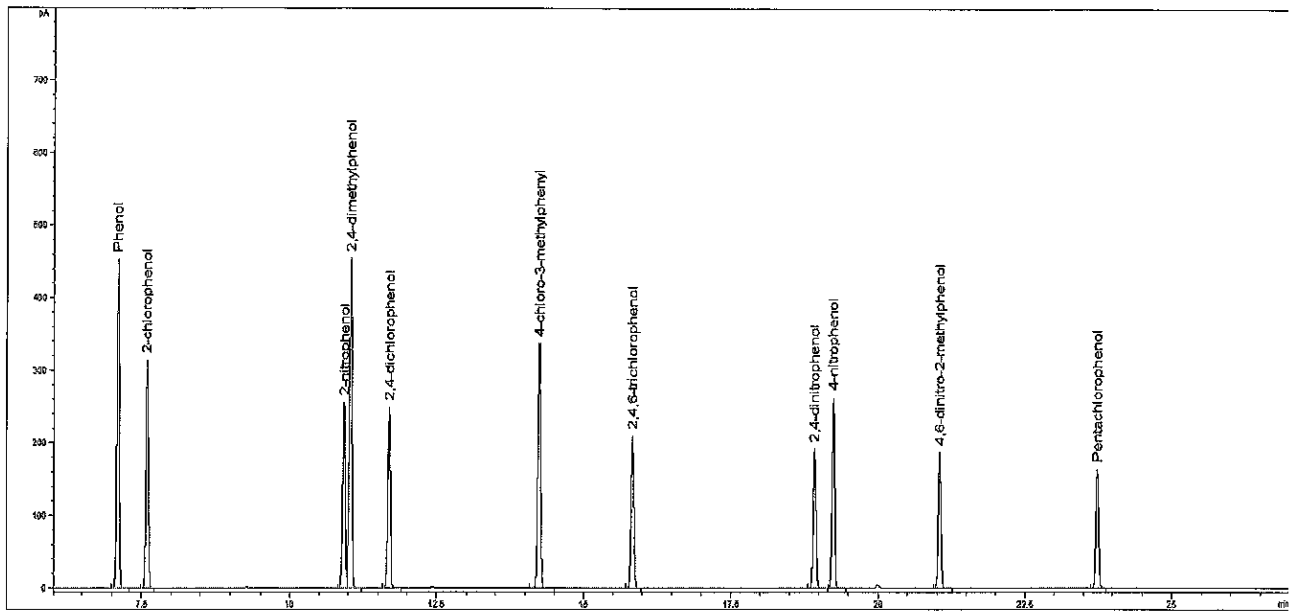
| Analyte                                     | Certified Value | Units | Raw Material Purity, % | Raw Material Lot |
|---|-----------------|-------|------------------------|------------------|
| 2-CHLOROPHENOL<br>CAS# 95-57-8              | 2001 ± 25       | µg/mL | 99.9                   | STBG3033V        |
| 2-NITROPHENOL<br>CAS# 88-75-5               | 1999 ± 18       | µg/mL | 99.3                   | 15905BB          |
| 2,4-DIMETHYLPHENOL<br>CAS# 105-67-9         | 2000 ± 14       | µg/mL | 99.2                   | 05421CO          |
| 2,4-DICHLOROPHENOL<br>CAS# 120-83-2         | 2000 ± 17       | µg/mL | 99.5                   | 03221TN          |
| 4-CHLORO-3-METHYLPHENOL<br>CAS# 59-50-7     | 2000 ± 5        | µg/mL | 99.9                   | JS00013          |
| 2,4,6-TRICHLOROPHENOL<br>CAS# 88-06-2       | 2002 ± 5        | µg/mL | 99.5                   | 04212PS          |
| 2,4-DINITROPHENOL<br>CAS# 51-28-5           | 2000 ± 28       | µg/mL | 66.9                   | STBJ5751         |
| 4-NITROPHENOL<br>CAS# 100-02-7              | 2000 ± 33       | µg/mL | 99.0                   | 04628LT          |
| 2-METHYL-4,6-DINITROPHENOL<br>CAS# 534-52-1 | 2000 ± 27       | µg/mL | 99.7                   | LC18338          |
| PENTACHLOROPHENOL<br>CAS# 87-86-5           | 1999 ± 25       | µg/mL | 97.9                   | MKCD2150         |

### ASSAY Method

#### J013597

TCL Phenols Mix 2000ug/ml  
 Solvent / Lot: LRAD0139  
 Prep: 12/30/2021 by VS  
 Exp: 7/31/2024  
 Location:





**METHOD: GC (Bellefonte Method )**

Column: SPB-5, 30 m x 0.53 mm I.D., 1.5 µm film thickness

Carrier Gas: H<sub>2</sub> Flow Rate: 4.5 mL/min

Inlet Temperature: 200 °C Injection Volume: 1.0 µL

Injection Mode: 25:1

Temperature Program: 80 °C (Hold 2 min) @ 6 °C/min to 260 °C (Hold 5 min)

Detector: FID Temperature: 310 °C

**Elution details:**

| EO | RT(MIN) | ANALYTE                    |
|----|---------|----------------------------|
| 1  | 7.095   | Phenol                     |
| 2  | 7.585   | 2-chlorophenol             |
| 3  | 10.925  | 2-nitrophenol              |
| 4  | 11.037  | 2,4-dimethylphenol         |
| 5  | 11.696  | 2,4-dichlorophenol         |
| 6  | 14.242  | 4-chloro-3-methylphenol    |
| 7  | 15.842  | 2,4,6-trichlorophenol      |
| 8  | 18.93   | 2,4-dinitrophenol          |
| 9  | 19.25   | 4-nitrophenol              |
| 10 | 21.05   | 4,6-dinitro-2-methylphenol |
| 11 | 23.752  | Pentachlorophenol          |

**Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

**Measurement method:** Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

**Intended use:** Intended for R&D and Analytical Use only. Not for drug, household or other uses.

**Packaging:** 1 mL in amber ampule

**Instructions for handling and correct use:** Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

**Health and safety information:** All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

**Accreditation:** Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

**Certificate issue date:** 12-Jul-2021



Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

**Details on metrological traceability:**

This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

**Associated uncertainty:**

Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

**Homogeneity assessment:**

Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

**Stability assessment:**

Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

**Certificate of analysis revision history:**

| <b>Certificate version</b> | <b>Date</b> | <b>Reason for version</b> |
|----------------------------|-------------|---------------------------|
| LRAD0139.01                | 12-Jul-2021 | Original Release Date     |

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# Certificate of Analysis

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## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101444

**Lot Number:** CL18355

**Description:** 8270 Calibration Standard

**Certification Date:** July 25, 2022

**Storage:** -18 °C

**Expiration Date:** August 31, 2023

**Provided As:** 1 mL in 2 mL Ampoule in MeCl<sub>2</sub>/Methanol (97:3)

**K007995**

SVOA-8270 LCS MIX 1000ug/ml

Solvent / Lot: N/A

Prep: 8/29/2022 by JZ

Exp: 8/31/2023

Location: FREEZER 44



Aaron Dukes, Certified Reference Materials Manager

| Component                    | CAS #    | Certified Value<br>µg/mL | Expanded Uncertainty |
|------------------------------|----------|--------------------------|----------------------|
| Acenaphthene                 | 83-32-9  | 1000                     | ± 0.300%             |
| Acenaphthylene               | 208-96-8 | 1000                     | ± 0.225%             |
| Anthracene                   | 120-12-7 | 1000                     | ± 6.858%             |
| Azobenzene                   | 103-33-3 | 1000                     | ± 0.224%             |
| Benzo(a)anthracene           | 56-55-3  | 1000                     | ± 0.247%             |
| Benzo(a)pyrene               | 50-32-8  | 1000                     | ± 0.270%             |
| Benzo(b)fluoranthene         | 205-99-2 | 1000                     | ± 0.635%             |
| Benzo(k)fluoranthene         | 207-08-9 | 1000                     | ± 0.682%             |
| Benzo(g,h,i)perylene         | 191-24-2 | 1000                     | ± 0.272%             |
| Benzyl alcohol               | 100-51-6 | 1000                     | ± 0.231%             |
| Benzyl butyl phthalate       | 85-68-7  | 1000                     | ± 0.480%             |
| bis(2-Chloroethoxy)methane   | 111-91-1 | 1000                     | ± 0.479%             |
| bis(2-Chloroethyl) ether     | 111-44-4 | 1000                     | ± 0.479%             |
| bis(2-Chloroisopropyl) ether | 108-60-1 | 1000                     | ± 0.550%             |
| bis(2-Ethylhexyl) adipate    | 103-23-1 | 1000                     | ± 0.479%             |
| bis(2-Ethylhexyl) phthalate  | 117-81-7 | 1000                     | ± 0.479%             |
| 4-Bromophenyl phenyl ether   | 101-55-3 | 1000                     | ± 0.479%             |
| Carbazole                    | 86-74-8  | 1000                     | ± 0.146%             |

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## Certified Reference Material

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**Catalog No.:** AL0-101444

**Lot Number:** CL18355

**Description:** 8270 Calibration Standard

**Certification Date:** July 25, 2022

**Storage:** -18 °C

**Expiration Date:** August 31, 2023

**Provided As:** 1 mL in 2 mL Ampoule in MeCl<sub>2</sub>/Methanol (97:3)

| Component                   | CAS #     | Certified Value<br>µg/mL | Expanded Uncertainty |
|-----------------------------|-----------|--------------------------|----------------------|
| 4-Chloroaniline             | 106-47-8  | 1000                     | ± 0.300%             |
| 4-Chloro-3-methylphenol     | 59-50-7   | 1000                     | ± 0.545%             |
| 2-Chloronaphthalene         | 91-58-7   | 1000                     | ± 0.224%             |
| 2-Chlorophenol              | 95-57-8   | 1000                     | ± 0.507%             |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | 1000                     | ± 0.479%             |
| Chrysene                    | 218-01-9  | 1000                     | ± 0.145%             |
| Dibenz(a,h)anthracene       | 53-70-3   | 1000                     | ± 1.058%             |
| Dibenzofuran                | 132-64-9  | 1000                     | ± 0.302%             |
| Di-n-butyl phthalate        | 84-74-2   | 1000                     | ± 0.518%             |
| 1,2-Dichlorobenzene         | 95-50-1   | 1000                     | ± 0.247%             |
| 1,3-Dichlorobenzene         | 541-73-1  | 1000                     | ± 0.225%             |
| 1,4-Dichlorobenzene         | 106-46-7  | 1000                     | ± 0.224%             |
| 2,4-Dichlorophenol          | 120-83-2  | 1000                     | ± 0.545%             |
| Diethyl phthalate           | 84-66-2   | 1000                     | ± 0.518%             |
| 2,4-Dimethylphenol          | 105-67-9  | 1000                     | ± 0.507%             |
| Dimethyl phthalate          | 131-11-3  | 1000                     | ± 0.518%             |
| 1,2-Dinitrobenzene          | 528-29-0  | 1000                     | ± 0.361%             |
| 1,3-Dinitrobenzene          | 99-65-0   | 1000                     | ± 0.300%             |
| 1,4-Dinitrobenzene          | 100-25-4  | 1000                     | ± 0.242%             |
| 2,4-Dinitrophenol           | 51-28-5   | 1000                     | ± 0.545%             |
| 2,4-Dinitrotoluene          | 121-14-2  | 1000                     | ± 1.128%             |

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**Catalog No.:** AL0-101444

**Lot Number:** CL18355

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**Certification Date:** July 25, 2022

**Storage:** -18 °C

**Expiration Date:** August 31, 2023

**Provided As:** 1 mL in 2 mL Ampoule in MeCl<sub>2</sub>/Methanol (97:3)

| Component                  | CAS #    | Certified Value<br>µg/mL | Expanded Uncertainty |
|----------------------------|----------|--------------------------|----------------------|
| 2,6-Dinitrotoluene         | 606-20-2 | 1000                     | ± 0.224%             |
| Di-n-octyl phthalate       | 117-84-0 | 1000                     | ± 0.486%             |
| Fluoranthene               | 206-44-0 | 1000                     | ± 0.224%             |
| Fluorene                   | 86-73-7  | 1000                     | ± 0.224%             |
| Hexachlorobenzene          | 118-74-1 | 1000                     | ± 0.152%             |
| Hexachlorobutadiene        | 87-68-3  | 1000                     | ± 0.746%             |
| Hexachlorocyclopentadiene  | 77-47-4  | 1000                     | ± 0.153%             |
| Hexachloroethane           | 67-72-1  | 1000                     | ± 0.300%             |
| Indeno(1,2,3-cd)pyrene     | 193-39-5 | 1000                     | ± 0.883%             |
| Isophorone                 | 78-59-1  | 1000                     | ± 0.145%             |
| 2-Methyl-4,6-dinitrophenol | 534-52-1 | 1000                     | ± 0.508%             |
| 1-Methylnaphthalene        | 90-12-0  | 1000                     | ± 0.479%             |
| 2-Methylnaphthalene        | 91-57-6  | 1000                     | ± 0.487%             |
| 2-Methylphenol             | 95-48-7  | 1000                     | ± 0.545%             |
| 3-Methylphenol             | 108-39-4 | 500                      | ± 0.279%             |
| 4-Methylphenol             | 106-44-5 | 500                      | ± 0.399%             |
| Naphthalene                | 91-20-3  | 1000                     | ± 0.226%             |
| 2-Nitroaniline             | 88-74-4  | 1000                     | ± 0.224%             |
| 3-Nitroaniline             | 99-09-2  | 1000                     | ± 0.235%             |
| 4-Nitroaniline             | 100-01-6 | 1000                     | ± 0.300%             |
| Nitrobenzene               | 98-95-3  | 1000                     | ± 0.300%             |

# Certificate of Analysis

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## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101444      **Lot Number:** CL18355  
**Description:** 8270 Calibration Standard      **Certification Date:** July 25, 2022  
**Storage:** -18 °C      **Expiration Date:** August 31, 2023  
**Provided As:** 1 mL in 2 mL Ampoule in MeCl<sub>2</sub>/Methanol (97:3)

| Component                 | CAS #    | Certified Value<br>µg/mL | Expanded Uncertainty |
|---------------------------|----------|--------------------------|----------------------|
| 2-Nitrophenol             | 88-75-5  | 1000                     | ± 0.514%             |
| 4-Nitrophenol             | 100-02-7 | 1000                     | ± 0.519%             |
| N-Nitrosodimethylamine    | 62-75-9  | 1000                     | ± 0.503%             |
| N-Nitrosodiphenylamine    | 86-30-6  | 1000                     | ± 0.476%             |
| N-Nitrosodi-n-propylamine | 621-64-7 | 1000                     | ± 0.461%             |
| Pentachlorophenol         | 87-86-5  | 1000                     | ± 0.202%             |
| Phenanthrene              | 85-01-8  | 1000                     | ± 0.145%             |
| Phenol                    | 108-95-2 | 1000                     | ± 0.545%             |
| Pyrene                    | 129-00-0 | 1000                     | ± 0.147%             |
| Pyridine                  | 110-86-1 | 1000                     | ± 0.503%             |
| 2,3,4,6-Tetrachlorophenol | 58-90-2  | 1000                     | ± 0.247%             |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | 1000                     | ± 0.247%             |
| 1,2,4-Trichlorobenzene    | 120-82-1 | 1000                     | ± 0.224%             |
| 2,4,5-Trichlorophenol     | 95-95-4  | 1000                     | ± 0.507%             |
| 2,4,6-Trichlorophenol     | 88-06-2  | 1000                     | ± 0.509%             |

**Notes:** The proper chemical name for Bis(2-Chloroisopropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.



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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31<sup>1</sup> and ISO Guide 35.<sup>2</sup>
2. Quality Standards: Phenova is accredited by A2LA to ISO 17034<sup>3</sup> and ISO/IEC 17025<sup>4</sup> as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at [www.phenova.com/documents](http://www.phenova.com/documents).
6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98<sup>5</sup> and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$u_{CRM} = \sqrt{u_M^2 + u_H^2 + u_{LTS}^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

## References:

- <sup>1</sup> ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- <sup>2</sup> ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- <sup>3</sup> ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- <sup>4</sup> ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- <sup>5</sup> ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

# Certificate of Composition - Analytical Standard

## BASE STOCK

**Product no.:** 22523051  
**Lot no.:** LRAD2751  
**Expiry Date:** June 2024  
**Manufacturing Date:** June 2022  
**Storage:** REFRIGERATE  
**Solvent/Matrix:** DICHLOROMETHANE  
**Certificate version:** LRAD2751.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: [www.sigma-aldrich.com](http://www.sigma-aldrich.com) for the most current version.)

| Analyte   | Assigned Value | Units | Raw Material Purity, % | Raw Material Lot |
|---|----------------|-------|------------------------|------------------|
| 3,3'-DICHLOROBENZIDINE, 100MG, NEAT<br>CAS# 91-94-1 | 799            | µg/mL | 99.8                   | LRAD2376         |
| 2,4-DINITROTOLUENE<br>CAS# 121-14-2                 | 801            | µg/mL | 97.8                   | LB46632          |
| 2,6-DINITROTOLUENE<br>CAS# 606-20-2                 | 800            | µg/mL | 99.2                   | 11231AN          |
| HEXACHLOROCYCLOPENTADIENE<br>CAS# 77-47-4           | 800            | µg/mL | 96.0                   | LB95525          |
| N-NITROSODIMETHYLAMINE<br>CAS# 62-75-9              | 800            | µg/mL | 95.0                   | 2019-030598<br>5 |
| PERYLENE<br>CAS# 198-55-0                           | 200            | µg/mL | 99.6                   | 04101PG          |
| ANILINE<br>CAS# 62-53-3                             | 800            | µg/mL | 99.9                   | LA41596          |
| 4-CHLOROANILINE<br>CAS# 106-47-8                    | 800            | µg/mL | 100.0                  | MKBZ6909V        |
| 2-NITROANILINE<br>CAS# 88-74-4                      | 799            | µg/mL | 99.9                   | 07411KN          |
| 3-NITROANILINE<br>CAS# 99-09-2                      | 800            | µg/mL | 99.9                   | LC09264          |
| 4-NITROANILINE<br>CAS# 100-01-6                     | 800            | µg/mL | 99.9                   | 15609AA          |
| PYRIDINE (LOW WATER)<br>CAS# 110-86-1               | 800            | µg/mL | 100.0                  | SHBJ9218         |

**Measurement method:** Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

**Intended use:** Intended for R&D and Analytical Use only. Not for drug, household or other uses.

**Packaging:** 1 mL in amber ampule

**Instructions for handling and correct use:** Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user's location. Open slowly and carefully to avoid dispersion of the material.



**Health and safety information:**

All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

**Certificate issue date:**

03 JUN 2022



Andy Ommen - QC Manager



Scott Stetler - QA Manager

**Certificate of analysis revision history:**

| Certificate version | Date        | Reason for version    |
|---------------------|-------------|-----------------------|
| LRAD2751.01         | 03 JUN 2022 | Original Release Date |

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# Certificate of Composition - Analytical Standard

## ACID STOCK

**Product no.:** 22523046  
**Lot no.:** LRAD2750  
**Expiry Date:** June 2024  
**Manufacturing Date:** June 2022  
**Storage:** REFRIGERATE  
**Solvent/Matrix:** DICHLOROMETHANE  
**Certificate version:** LRAD2750.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: [www.sigma-aldrich.com](http://www.sigma-aldrich.com) for the most current version.)

| Analyte                                     | Assigned Value | Units | Raw Material Purity, % | Raw Material Lot |
|---|----------------|-------|------------------------|------------------|
| 2,4-DIMETHYLPHENOL<br>CAS# 105-67-9         | 800            | µg/mL | 99.9                   | LB88935          |
| 2,4-DICHLOROPHENOL<br>CAS# 120-83-2         | 800            | µg/mL | 100.0                  | BCBZ6787         |
| 2,4,5-TRICHLOROPHENOL<br>CAS# 95-95-4       | 801            | µg/mL | 99.9                   | JS00008          |
| 2,4-DINITROPHENOL<br>CAS# 51-28-5           | 1799           | µg/mL | 66.9                   | STBJ5751         |
| 2,4,6-TRICHLOROPHENOL<br>CAS# 88-06-2       | 800            | µg/mL | 98.7                   | LB82983          |
| 4-CHLORO-3-METHYLPHENOL<br>CAS# 59-50-7     | 800            | µg/mL | 100.0                  | BCCD4461         |
| 4-NITROPHENOL<br>CAS# 100-02-7              | 800            | µg/mL | 100.0                  | MKCN1089         |
| 2-METHYL-4,6-DINITROPHENOL<br>CAS# 534-52-1 | 1800           | µg/mL | 100.0                  | BCBX5762         |
| PENTACHLOROPHENOL<br>CAS# 87-86-5           | 800            | µg/mL | 99.0                   | 23614-01         |
| BENZOIC ACID<br>CAS# 65-85-0                | 1800           | µg/mL | 99.9                   | LC16514          |

**Measurement method:** Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

**Intended use:** Intended for R&D and Analytical Use only. Not for drug, household or other uses.

**Packaging:** 1 mL in amber ampule

**Instructions for handling and correct use:** Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user's location. Open slowly and carefully to avoid dispersion of the material.

**Health and safety information:** All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.



Certificate issue date:

03 JUN 2022



Andy Ommen - QC Manager



Scott Stetler - QA Manager

**Certificate of analysis revision history:**

| Certificate version | Date        | Reason for version    |
|---------------------|-------------|-----------------------|
| LRAD2750.01         | 03 JUN 2022 | Original Release Date |

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## Certified Reference Material

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**Catalog No.:** AL0-101244

**Lot Number:** CL18939

**Description:** Benzidines Standard

**Certification Date:** September 7, 2022

**Storage:** 4 °C

**Expiration Date:** August 31, 2032

**Provided As:** 1 mL in 2 mL Ampoule in Methylene Chloride



Aaron Dukes, Certified Reference Materials Manager

| Component              | CAS #   | Certified Value<br>µg/mL | Expanded Uncertainty |
|------------------------|---------|--------------------------|----------------------|
| Benzidine              | 92-87-5 | 2000                     | ± 3.812%             |
| 3,3'-Dichlorobenzidine | 91-94-1 | 2000                     | ± 1.419%             |

### L001288

Benzidines std @2000ug/ml  
Solvent / Lot: CL18939  
Prep: 2/7/2023 by VS  
Exp: 8/31/2032  
Location: GC



Reference Material Producer  
Certificate No. 2427.02



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Chemical Testing Laboratory  
Certificate No. 2427.03



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## Certified Reference Material

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**Catalog No.:** AL0-101443

**Lot Number:** CL18741

**Description:** Aniline

**Certification Date:** July 21, 2022

**Storage:** 4 °C

**Expiration Date:** July 31, 2030

**Provided As:** 1 mL in 2 mL Ampoule in Methylene Chloride



Aaron Duker, Certified Reference Materials Manager

| Component | CAS #   | Certified Value<br>µg/mL | Expanded Uncertainty |
|-----------|---------|--------------------------|----------------------|
| Aniline   | 62-53-3 | 1000                     | ± 1.719%             |

**L001290**

Aniline-1000ug/mL  
Solvent / Lot: CL18741  
Prep: 2/7/2023 by VS  
Exp: 7/31/2030  
Location: GC



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## Certified Reference Material

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**Catalog No.:** AL0-101444

**Lot Number:** CL18811

**Description:** 8270 Calibration Standard

**Certification Date:** August 9, 2022

**Storage:** -18 °C

**Expiration Date:** November 30, 2023

**Provided As:** 1 mL in 2 mL Ampoule in MeCl<sub>2</sub>/Methanol (97:3)



Aaron Duker, Certified Reference Materials Manager

### L001291

SVOA-8270 LCS MIX 1000ug/ml

Solvent / Lot: CL18811

Prep: 2/7/2023 by VS

Exp: 11/30/2023

Location: FREEZER 44

| Component                    | CAS #    | µg/mL | Expanded Uncertainty |
|------------------------------|----------|-------|----------------------|
| Acenaphthene                 | 83-32-9  | 1000  | ± 1.643%             |
| Acenaphthylene               | 208-96-8 | 1000  | ± 1.317%             |
| Anthracene                   | 120-12-7 | 1000  | ± 2.136%             |
| Azobenzene                   | 103-33-3 | 1000  | ± 1.630%             |
| Benzo(a)anthracene           | 56-55-3  | 1000  | ± 2.372%             |
| Benzo(a)pyrene               | 50-32-8  | 1000  | ± 3.028%             |
| Benzo(b)fluoranthene         | 205-99-2 | 1000  | ± 2.377%             |
| Benzo(k)fluoranthene         | 207-08-9 | 1000  | ± 2.286%             |
| Benzo(g,h,i)perylene         | 191-24-2 | 1000  | ± 2.561%             |
| Benzyl alcohol               | 100-51-6 | 1000  | ± 1.803%             |
| Benzyl butyl phthalate       | 85-68-7  | 1000  | ± 1.855%             |
| bis(2-Chloroethoxy)methane   | 111-91-1 | 1000  | ± 1.626%             |
| bis(2-Chloroethyl) ether     | 111-44-4 | 1000  | ± 1.776%             |
| bis(2-Chloroisopropyl) ether | 108-60-1 | 1000  | ± 2.406%             |
| bis(2-Ethylhexyl) adipate    | 103-23-1 | 1000  | ± 2.415%             |
| bis(2-Ethylhexyl) phthalate  | 117-81-7 | 1000  | ± 2.350%             |
| 4-Bromophenyl phenyl ether   | 101-55-3 | 1000  | ± 1.708%             |
| Carbazole                    | 86-74-8  | 1000  | ± 1.844%             |



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|  |   |
|--|---|
| <b>Catalog No.:</b> AL0-101444   | <b>Lot Number:</b> CL18811                |
| <b>Description:</b> 8270 Calibration Standard                                  | <b>Certification Date:</b> August 9, 2022 |
| <b>Storage:</b> -18 °C   | <b>Expiration Date:</b> November 30, 2023 |
| <b>Provided As:</b> 1 mL in 2 mL Ampoule in MeCl <sub>2</sub> /Methanol (97:3) |   |

| Component                   | CAS #     | Certified Value<br>µg/mL | Expanded Uncertainty |
|-----------------------------|-----------|--------------------------|----------------------|
| 4-Chloroaniline             | 106-47-8  | 1000                     | ± 2.831%             |
| 4-Chloro-3-methylphenol     | 59-50-7   | 1000                     | ± 1.571%             |
| 2-Chloronaphthalene         | 91-58-7   | 1000                     | ± 2.022%             |
| 2-Chlorophenol              | 95-57-8   | 1000                     | ± 2.001%             |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | 1000                     | ± 1.634%             |
| Chrysene                    | 218-01-9  | 1000                     | ± 2.358%             |
| Dibenz(a,h)anthracene       | 53-70-3   | 1000                     | ± 2.452%             |
| Dibenzofuran                | 132-64-9  | 1000                     | ± 0.310%             |
| Di-n-butyl phthalate        | 84-74-2   | 1000                     | ± 2.347%             |
| 1,2-Dichlorobenzene         | 95-50-1   | 1000                     | ± 1.803%             |
| 1,3-Dichlorobenzene         | 541-73-1  | 1000                     | ± 1.808%             |
| 1,4-Dichlorobenzene         | 106-46-7  | 1000                     | ± 1.503%             |
| 2,4-Dichlorophenol          | 120-83-2  | 1000                     | ± 1.393%             |
| Diethyl phthalate           | 84-66-2   | 1000                     | ± 1.870%             |
| 2,4-Dimethylphenol          | 105-67-9  | 1000                     | ± 2.495%             |
| Dimethyl phthalate          | 131-11-3  | 1000                     | ± 2.113%             |
| 1,2-Dinitrobenzene          | 528-29-0  | 1000                     | ± 0.240%             |
| 1,3-Dinitrobenzene          | 99-65-0   | 1000                     | ± 1.221%             |
| 1,4-Dinitrobenzene          | 100-25-4  | 1000                     | ± 0.246%             |
| 2,4-Dinitrophenol           | 51-28-5   | 1000                     | ± 0.519%             |
| 2,4-Dinitrotoluene          | 121-14-2  | 1000                     | ± 2.242%             |



Reference Material Producer  
Certificate No. 2427.02



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Chemical Testing Laboratory  
Certificate No. 2427.03

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## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101444      **Lot Number:** CL18811  
**Description:** 8270 Calibration Standard      **Certification Date:** August 9, 2022  
**Storage:** -18 °C      **Expiration Date:** November 30, 2023  
**Provided As:** 1 mL in 2 mL Ampoule in MeCl<sub>2</sub>/Methanol (97:3)

| Component                  | CAS #    | Certified Value<br>µg/mL | Expanded Uncertainty |
|----------------------------|----------|--------------------------|----------------------|
| 2,6-Dinitrotoluene         | 606-20-2 | 1000                     | ± 2.154%             |
| Di-n-octyl phthalate       | 117-84-0 | 1000                     | ± 2.670%             |
| Fluoranthene               | 206-44-0 | 1000                     | ± 2.103%             |
| Fluorene                   | 86-73-7  | 1000                     | ± 0.890%             |
| Hexachlorobenzene          | 118-74-1 | 1000                     | ± 1.210%             |
| Hexachlorobutadiene        | 87-68-3  | 1000                     | ± 1.304%             |
| Hexachlorocyclopentadiene  | 77-47-4  | 1000                     | ± 1.510%             |
| Hexachloroethane           | 67-72-1  | 1000                     | ± 3.281%             |
| Indeno(1,2,3-cd)pyrene     | 193-39-5 | 1000                     | ± 1.921%             |
| Isophorone                 | 78-59-1  | 1000                     | ± 2.022%             |
| 2-Methyl-4,6-dinitrophenol | 534-52-1 | 1000                     | ± 1.661%             |
| 1-Methylnaphthalene        | 90-12-0  | 1000                     | ± 1.929%             |
| 2-Methylnaphthalene        | 91-57-6  | 1000                     | ± 2.220%             |
| 2-Methylphenol             | 95-48-7  | 1000                     | ± 2.168%             |
| 3-Methylphenol             | 108-39-4 | 500                      | ± 1.025%             |
| 4-Methylphenol             | 106-44-5 | 500                      | ± 1.064%             |
| Naphthalene                | 91-20-3  | 1000                     | ± 1.199%             |
| 2-Nitroaniline             | 88-74-4  | 1000                     | ± 1.874%             |
| 3-Nitroaniline             | 99-09-2  | 1000                     | ± 2.146%             |
| 4-Nitroaniline             | 100-01-6 | 1000                     | ± 0.300%             |
| Nitrobenzene               | 98-95-3  | 1000                     | ± 1.704%             |



Reference Material Producer  
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material  
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory  
Certificate No. 2427.03



# Certificate of Analysis

**Produced by Phenova**

6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com  
Access your Safety Data Sheets and digital Certificates at [www.phenova.com/documents](http://www.phenova.com/documents).

## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101444

**Lot Number:** CL18811

**Description:** 8270 Calibration Standard

**Certification Date:** August 9, 2022

**Storage:** -18 °C

**Expiration Date:** November 30, 2023

**Provided As:** 1 mL in 2 mL Ampoule in MeCl<sub>2</sub>/Methanol (97:3)

| Component                 | CAS #    | Certified Value<br>µg/mL | Expanded Uncertainty |
|---------------------------|----------|--------------------------|----------------------|
| 2-Nitrophenol             | 88-75-5  | 1000                     | ± 2.051%             |
| 4-Nitrophenol             | 100-02-7 | 1000                     | ± 1.413%             |
| N-Nitrosodimethylamine    | 62-75-9  | 1000                     | ± 0.545%             |
| N-Nitrosodiphenylamine    | 86-30-6  | 1000                     | ± 1.669%             |
| N-Nitrosodi-n-propylamine | 621-64-7 | 1000                     | ± 0.712%             |
| Pentachlorophenol         | 87-86-5  | 1000                     | ± 2.454%             |
| Phenanthrene              | 85-01-8  | 1000                     | ± 2.072%             |
| Phenol                    | 108-95-2 | 1000                     | ± 2.140%             |
| Pyrene                    | 129-00-0 | 1000                     | ± 1.869%             |
| Pyridine                  | 110-86-1 | 1000                     | ± 0.545%             |
| 2,3,4,6-Tetrachlorophenol | 58-90-2  | 1000                     | ± 2.552%             |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | 1000                     | ± 2.220%             |
| 1,2,4-Trichlorobenzene    | 120-82-1 | 1000                     | ± 1.632%             |
| 2,4,5-Trichlorophenol     | 95-95-4  | 1000                     | ± 1.596%             |
| 2,4,6-Trichlorophenol     | 88-06-2  | 1000                     | ± 0.481%             |

**Notes:** The proper chemical name for Bis(2-Chloroisopropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.



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Chemical Testing Laboratory  
Certificate No. 2427.03

# Certificate of Analysis

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1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31<sup>1</sup> and ISO Guide 35.<sup>2</sup>
2. **Quality Standards:** Phenova is accredited by A2LA to ISO 17034<sup>3</sup> and ISO/IEC 17025<sup>4</sup> as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at [www.phenova.com/documents](http://www.phenova.com/documents).
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98<sup>5</sup> and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

## References:

- <sup>1</sup> ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- <sup>2</sup> ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- <sup>3</sup> ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- <sup>4</sup> ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- <sup>5</sup> ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer  
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Chemical Testing Laboratory  
Certificate No. 2427.03







Form I  
ORGANIC ANALYSIS DATA SHEET  
EPA 8270E-SIM  
SIM SVOC Organics (Dual scan list)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-01RE1 A

SDG: 23A0179

Sampled: 01/10/23 08:24

Prepared: 03/17/23 14:20

File ID: NT1003222310S.D

% Solids: 58.98

Preparation: EPA 3546 (Microwave)

Analyzed: 03/22/23 22:49

Batch: BLC0442

Sequence: SLC0407

Initial/Final: 17.05 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00049

Cleanups: GPC

| CAS NO.  | COMPOUND               | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|------------------------|----------|----------------------|---|------|------|
| 106-46-7 | 1,4-Dichlorobenzene    | 1        | 1.4                  | J | 0.6  | 5.0  |
| 95-50-1  | 1,2-Dichlorobenzene    | 1        | 5.0                  | U | 0.7  | 5.0  |
| 100-51-6 | Benzyl Alcohol         | 1        | 19.7                 | J | 2.5  | 19.9 |
| 65-85-0  | Benzoic acid           | 1        | 112                  |   | 13.3 | 99.4 |
| 105-67-9 | 2,4-Dimethylphenol     | 1        | 3.0                  | J | 2.2  | 19.9 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1        | 5.0                  | U | 2.7  | 5.0  |
| 86-30-6  | N-Nitrosodiphenylamine | 1        | 5.0                  | U | 1.3  | 5.0  |
| 87-86-5  | Pentachlorophenol      | 1        | 7.4                  | J | 2.1  | 19.9 |

| SURROGATES      | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|-----------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol  | 745.82                | 531                   | 71.1  | 27 - 120  |   |
| p-Terphenyl-d14 | 497.21                | 486                   | 97.7  | 37 - 120  |   |

Data File: \\target\share\chem3\nt10.1\20230322.16\SIH.6\NT1003222310S.D

Date: 22-MAR-2023 22:49

Client ID:

Sample Info: 23A0179-01

Volume Injected (uL): 1.0

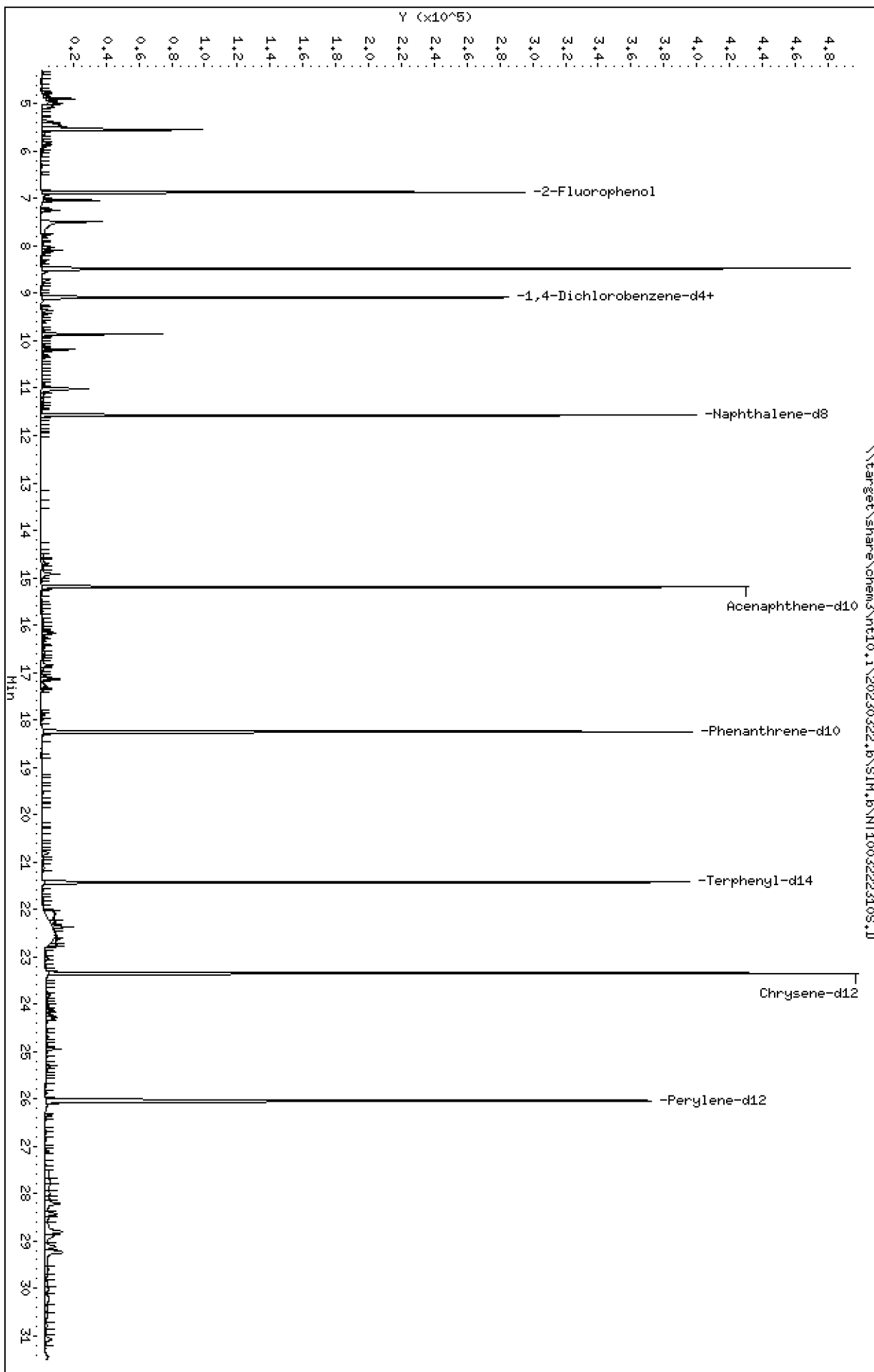
Column phase: ZB-5msi

Instrument: nt10.1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01

Volume Injected (uL): 1.0

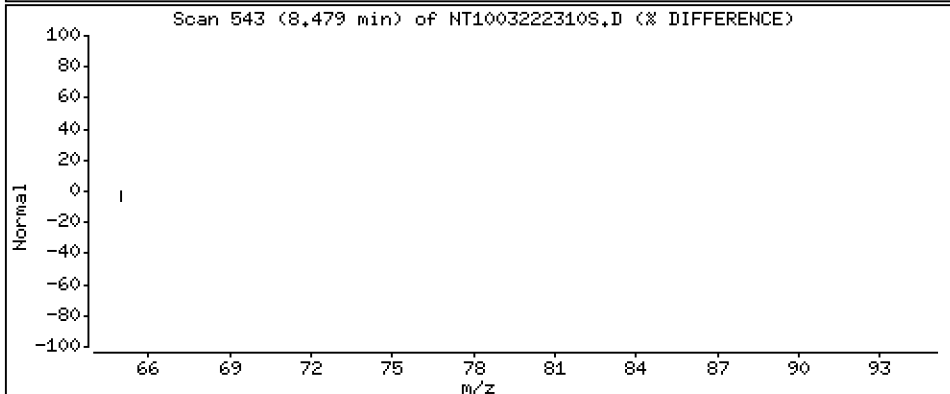
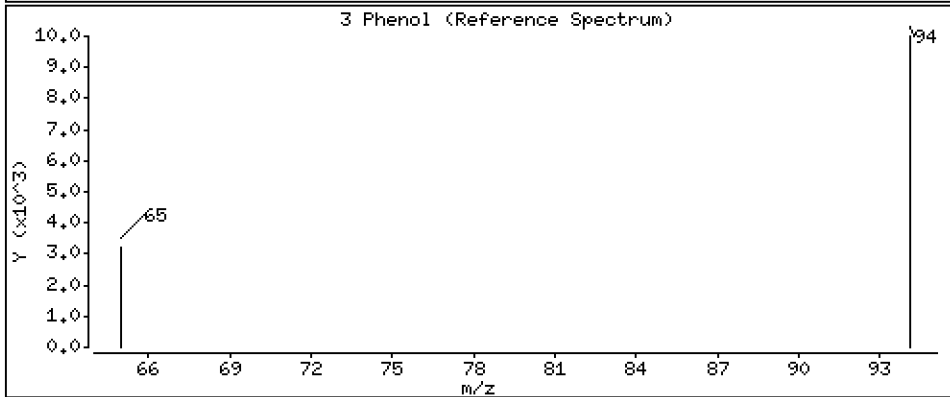
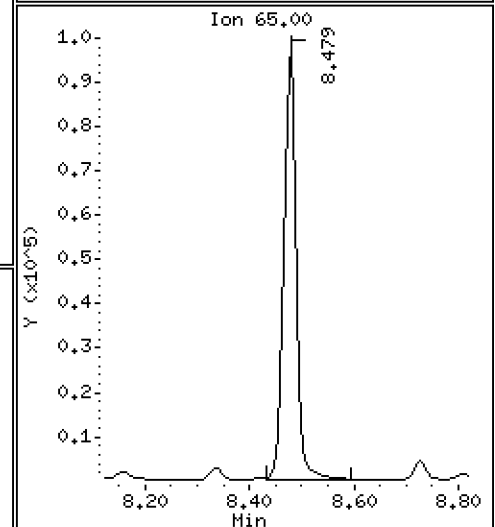
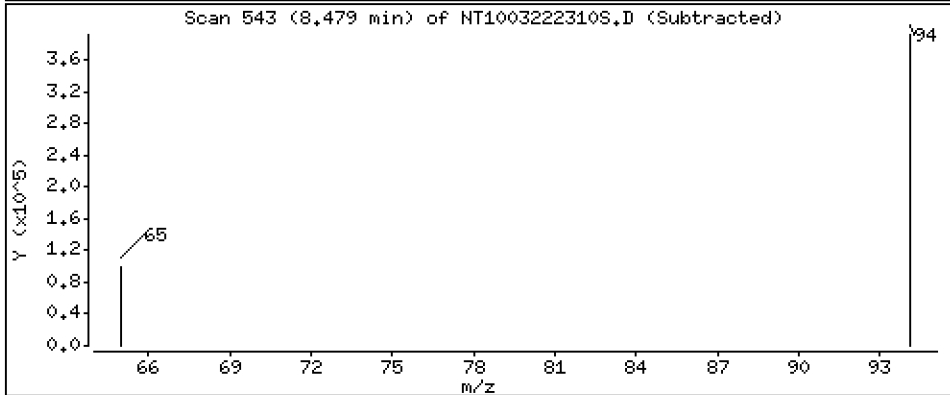
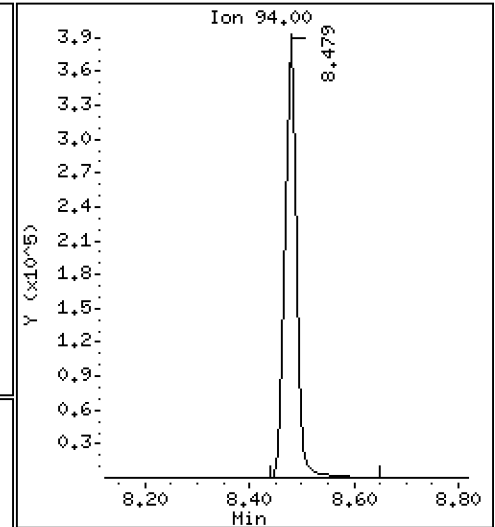
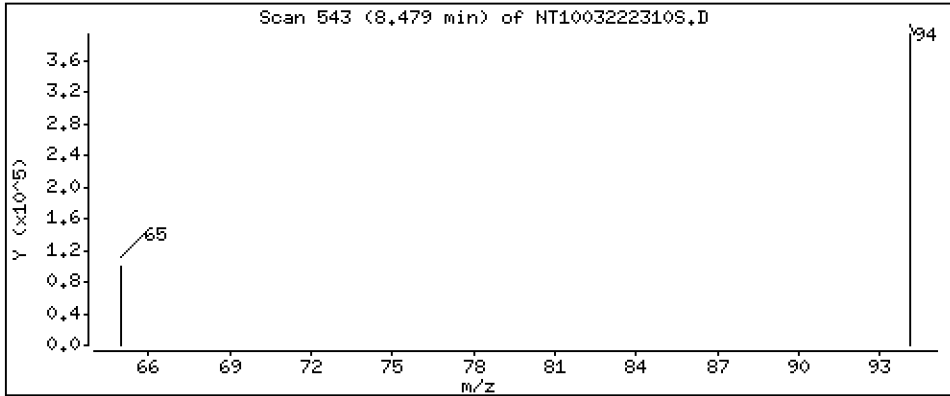
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 7.675 ug/L





Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01

Volume Injected (uL): 1.0

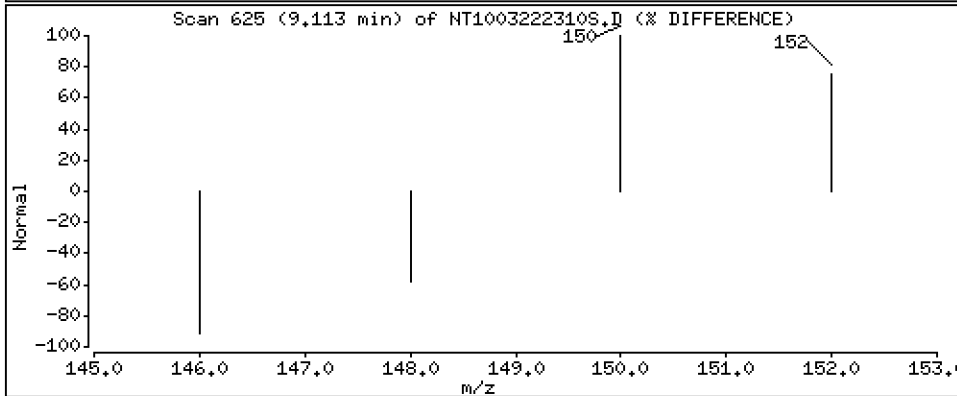
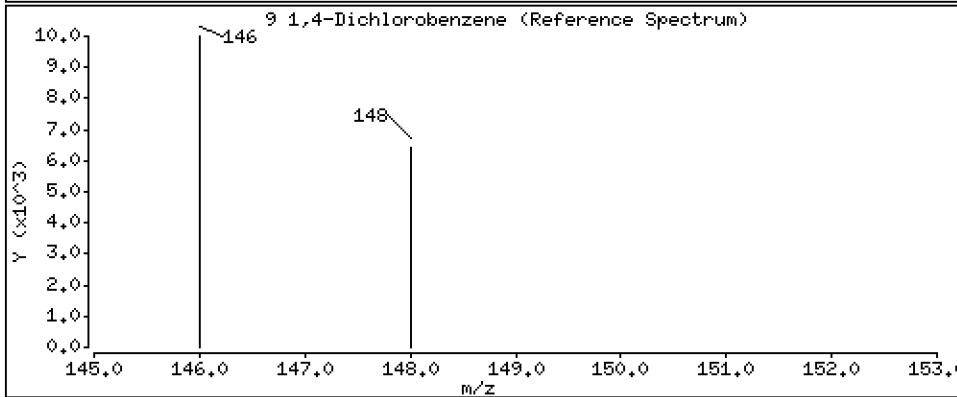
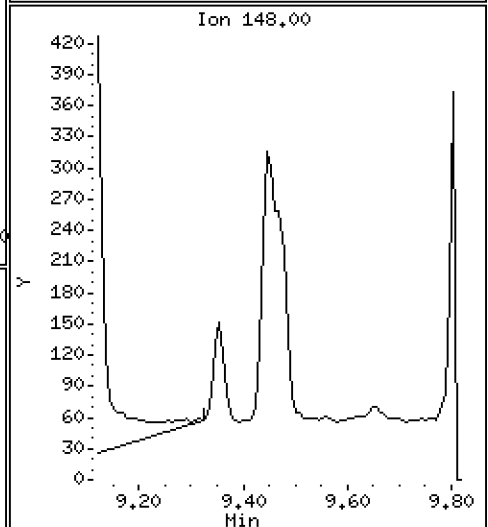
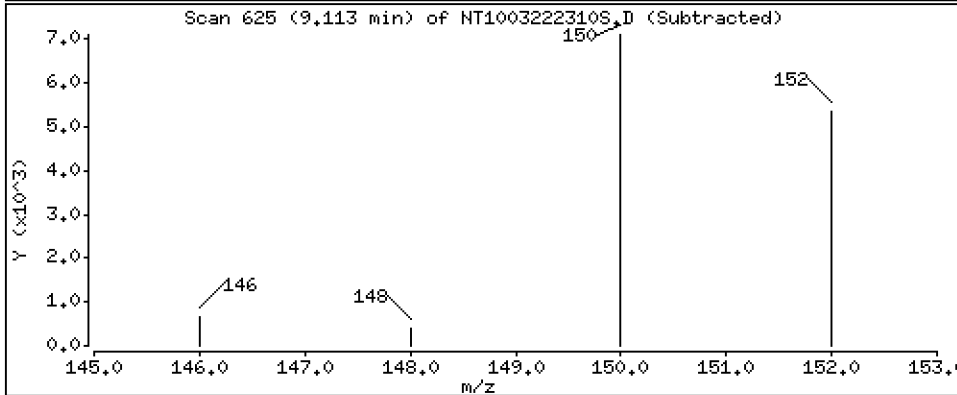
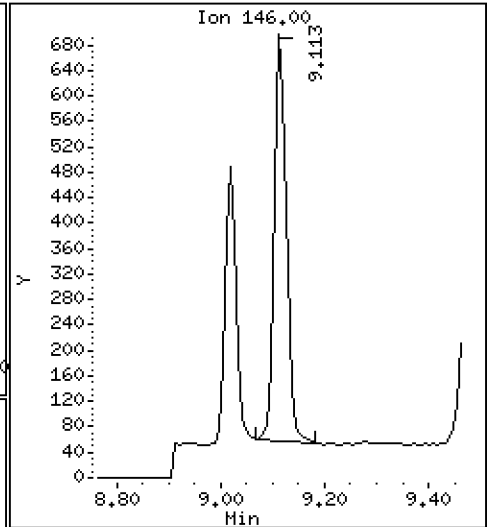
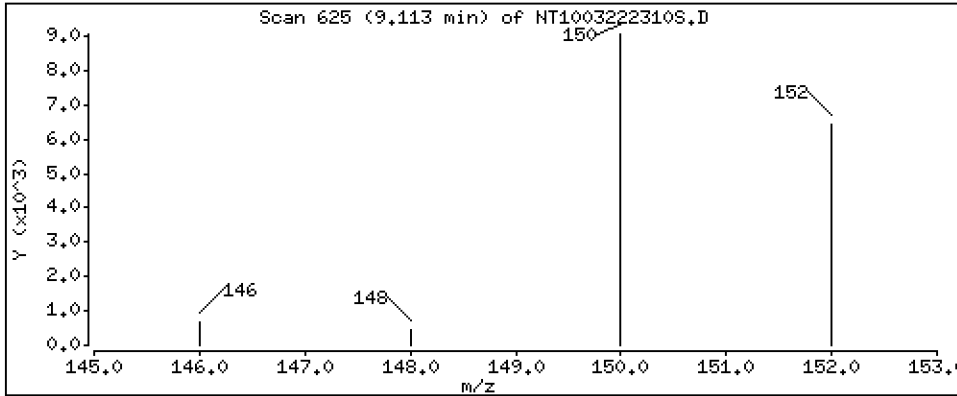
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,01454 ug/L



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01

Volume Injected (uL): 1.0

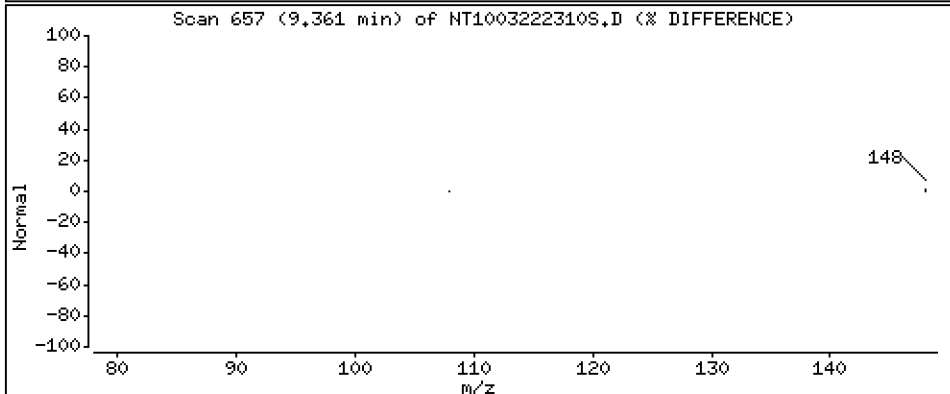
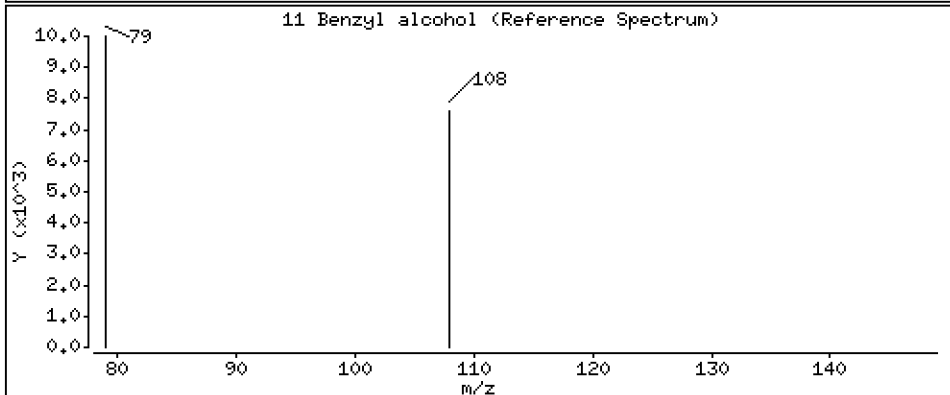
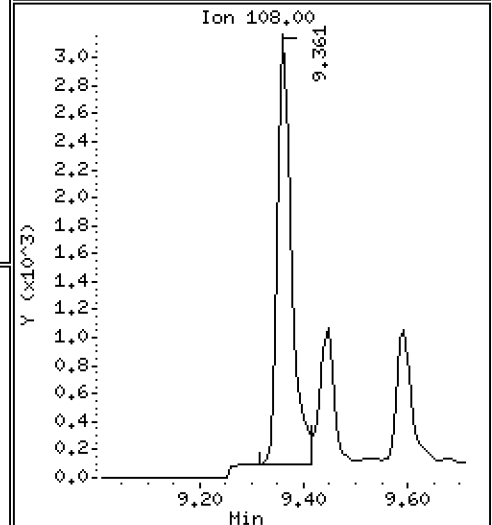
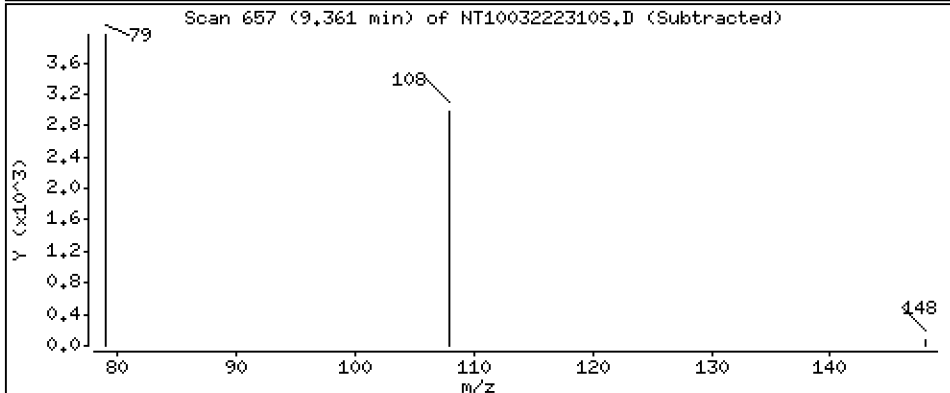
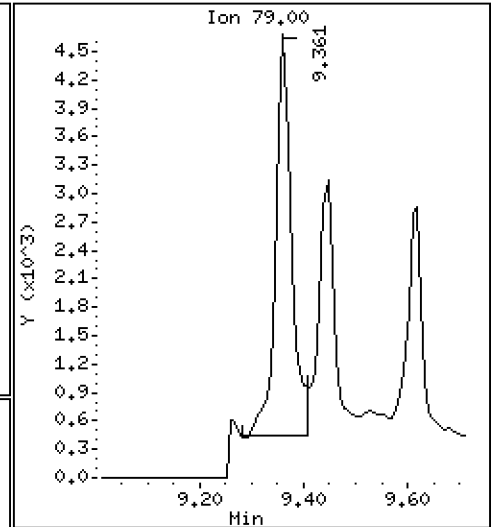
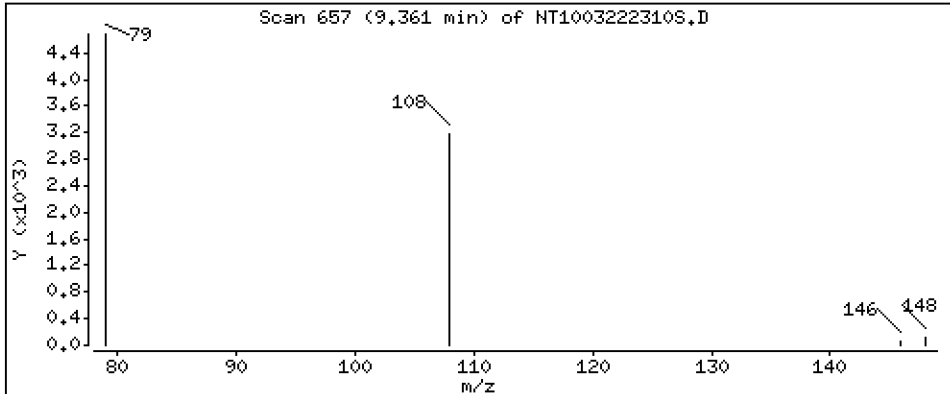
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1978 ug/L



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01

Volume Injected (uL): 1.0

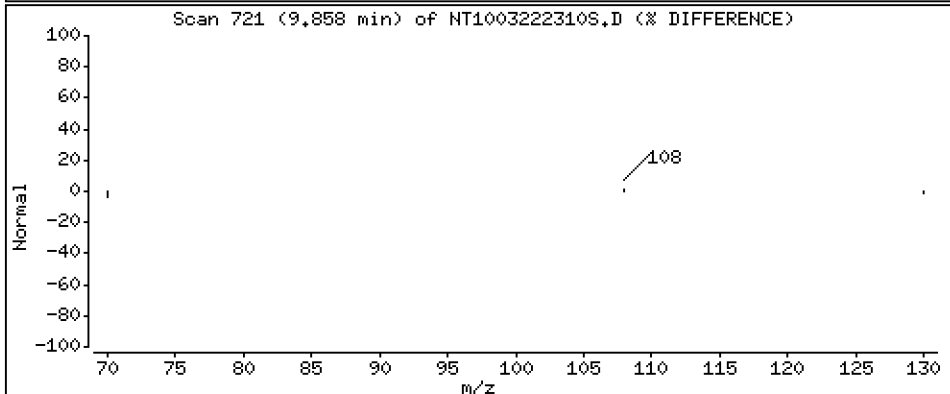
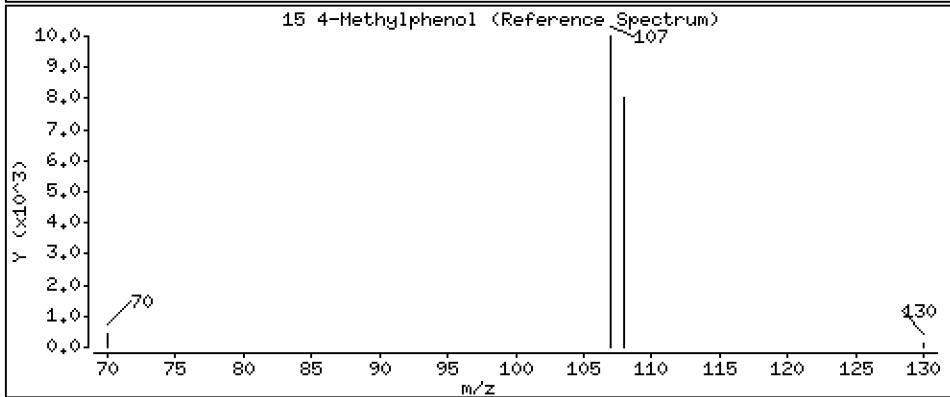
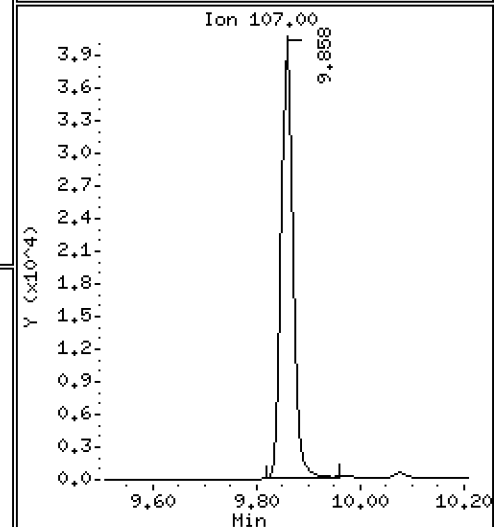
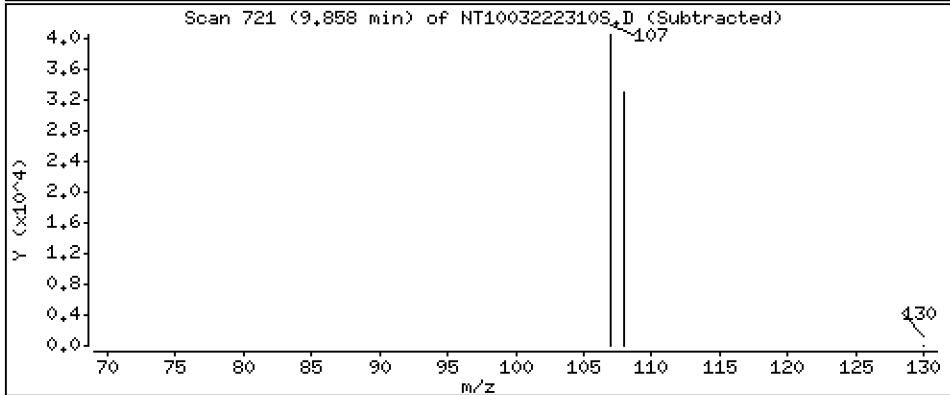
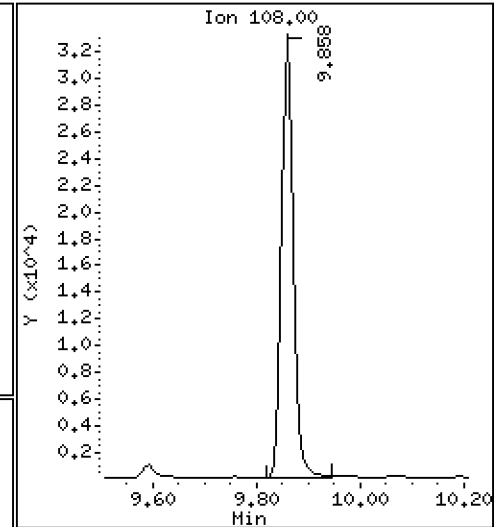
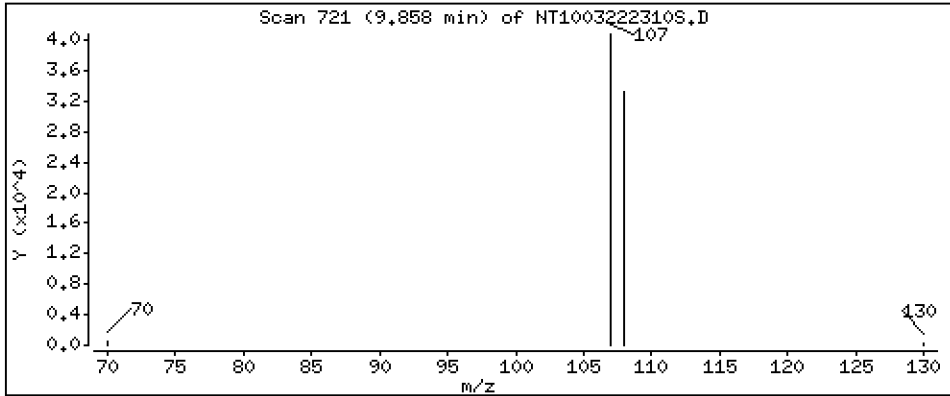
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.8910 ug/L



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01

Volume Injected (uL): 1.0

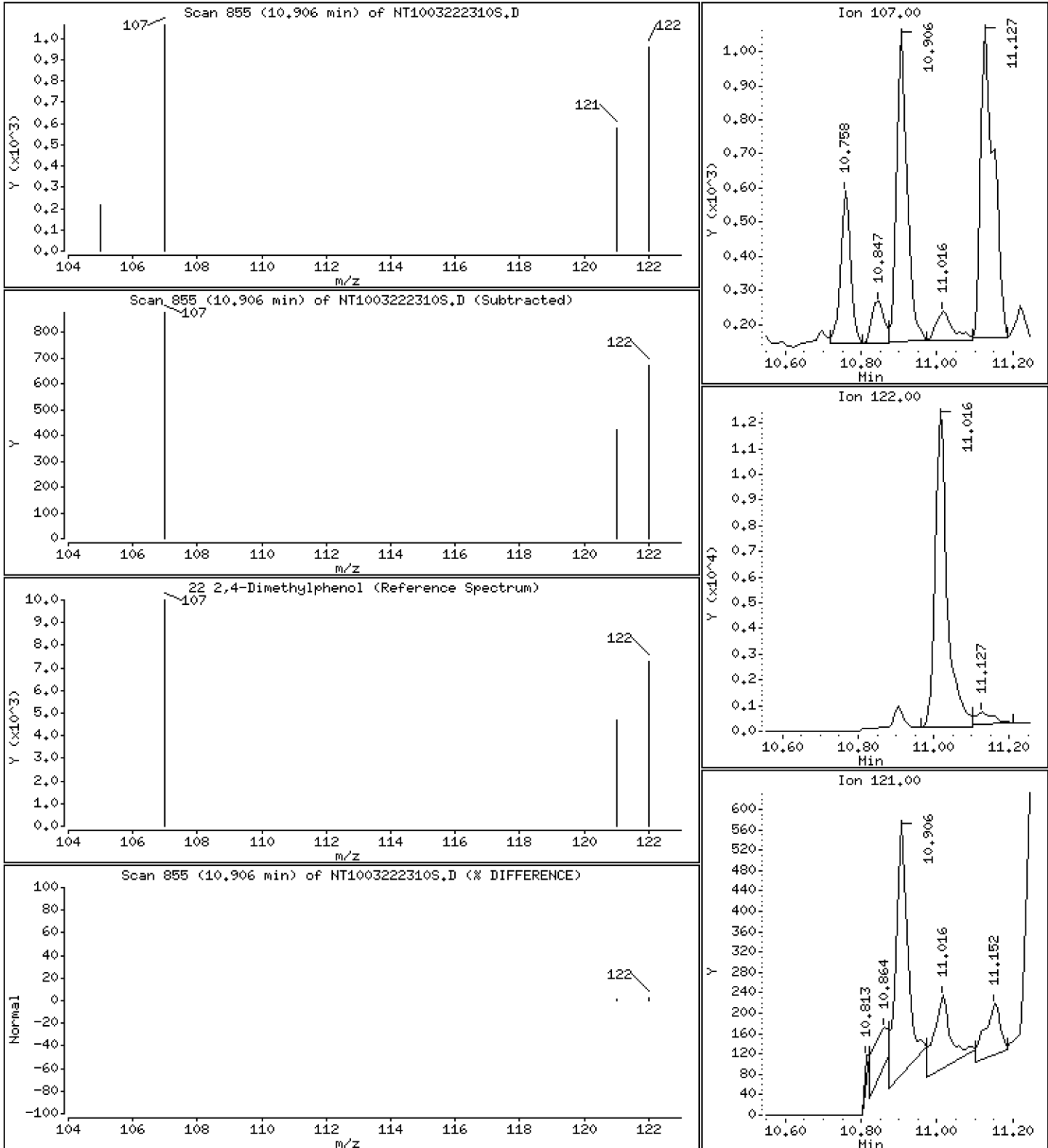
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 0.03052 ug/L



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01

Volume Injected (uL): 1.0

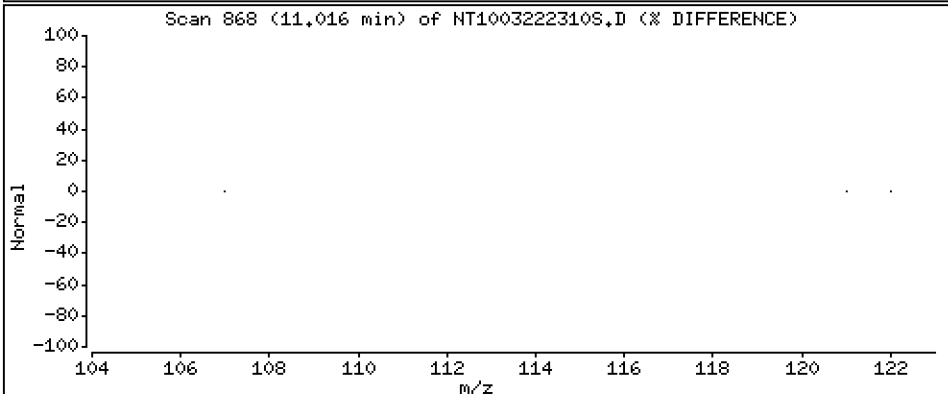
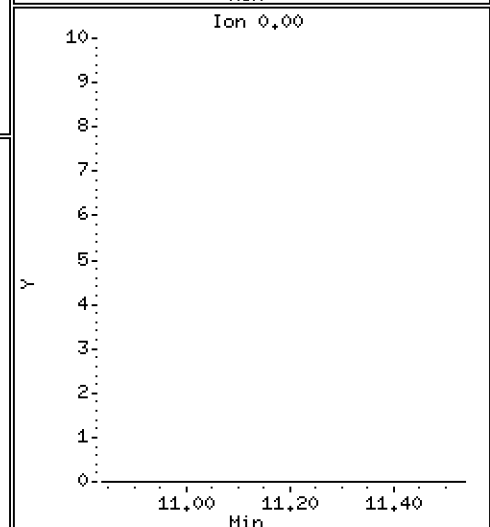
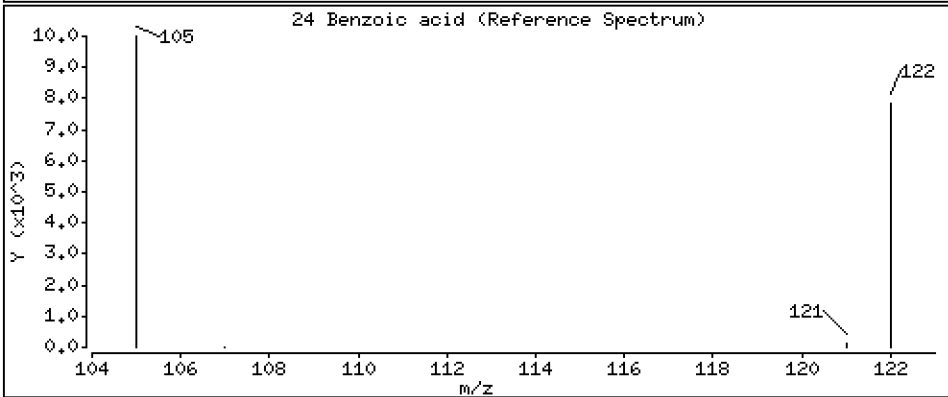
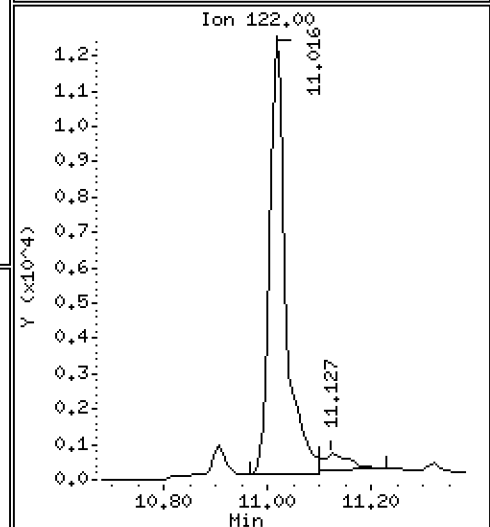
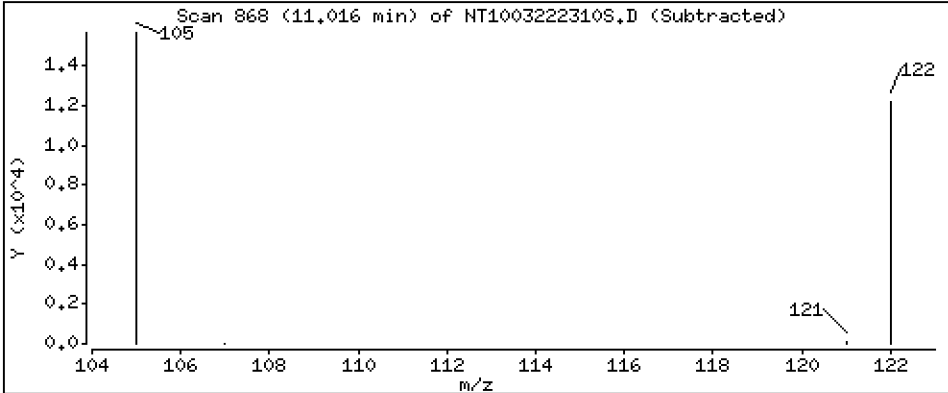
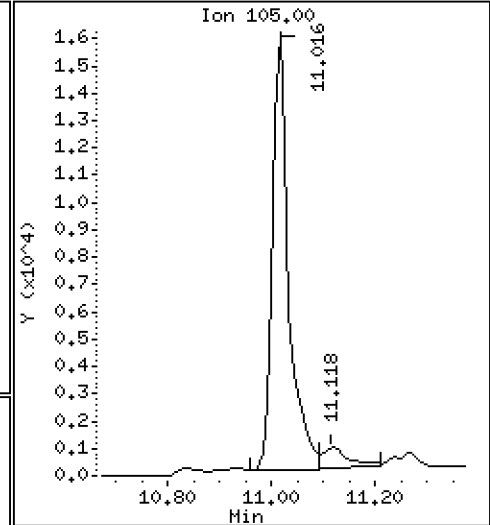
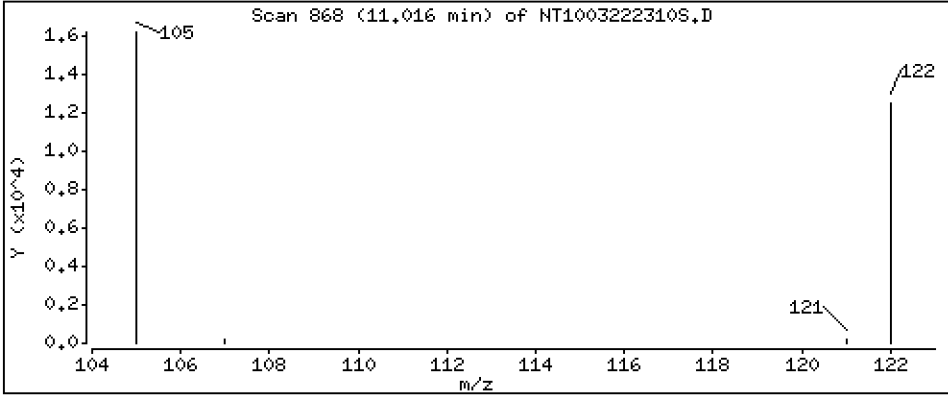
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 1.122 ug/L



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01

Volume Injected (uL): 1.0

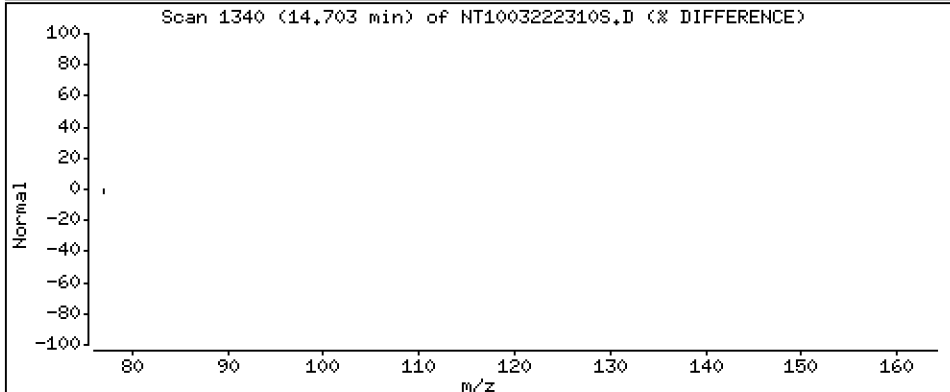
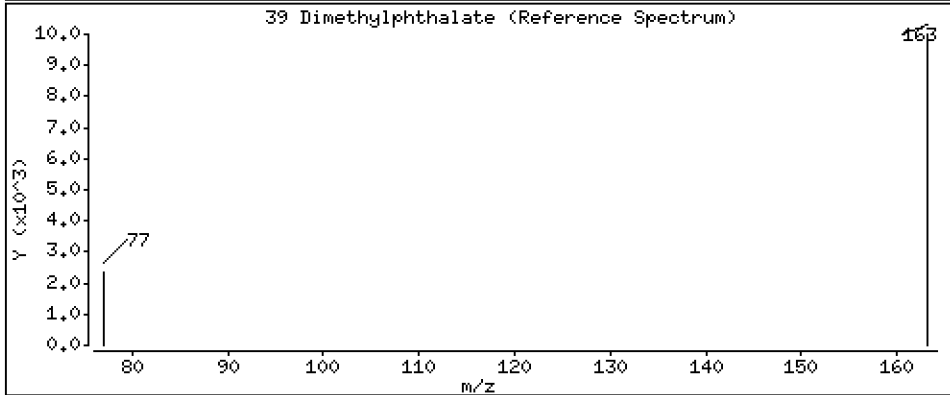
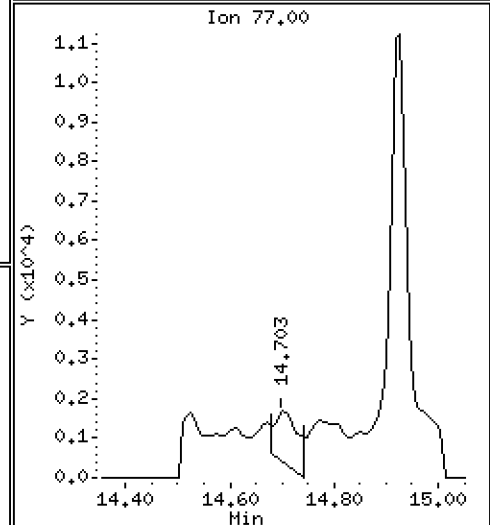
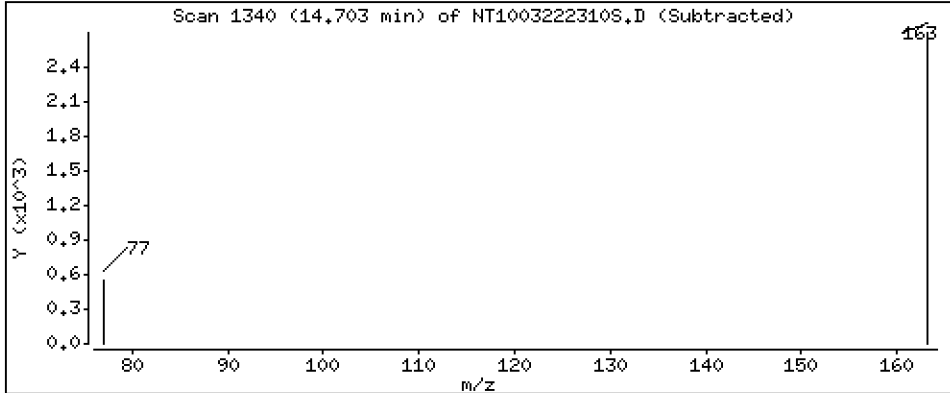
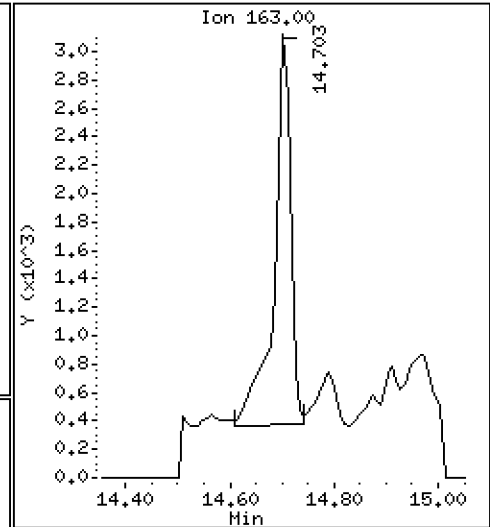
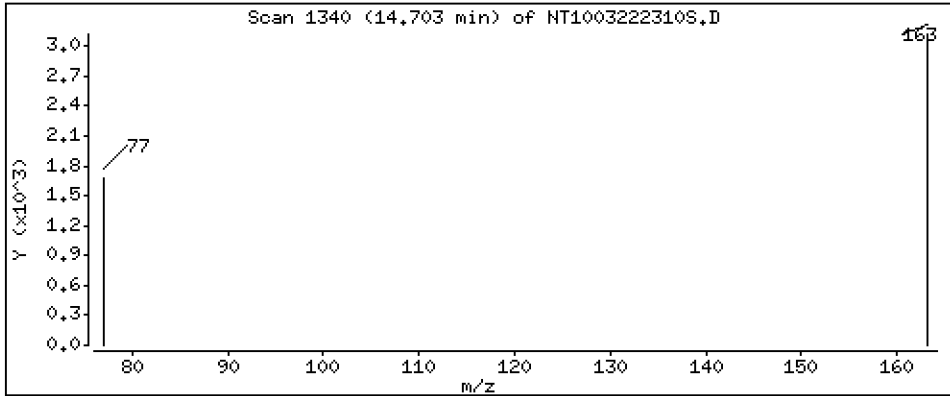
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

39 Dimethylphthalate

Concentration: 0.05561 ug/L



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01

Volume Injected (uL): 1.0

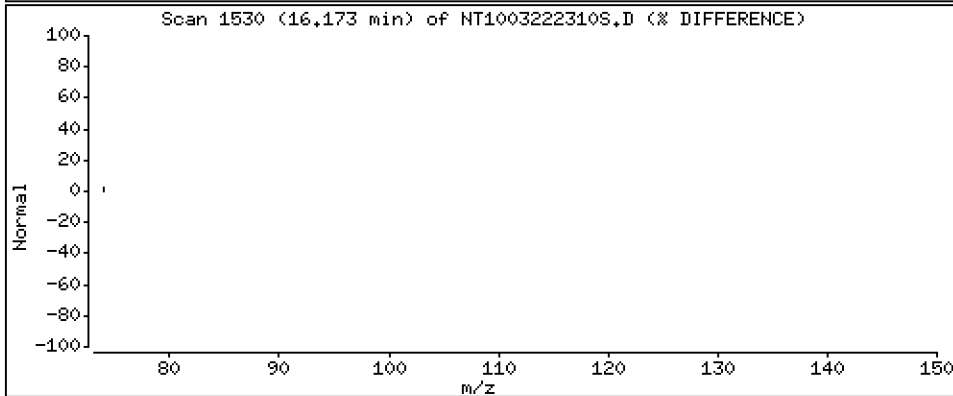
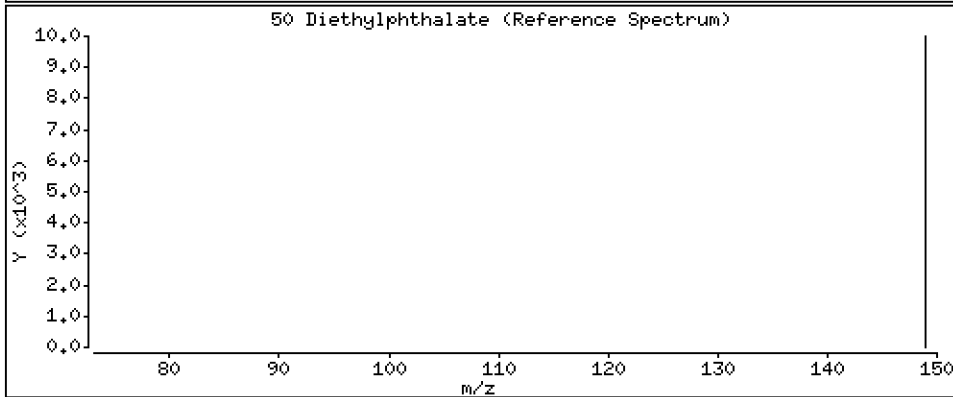
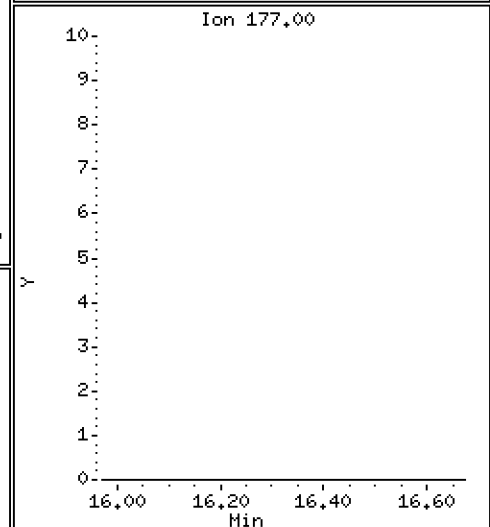
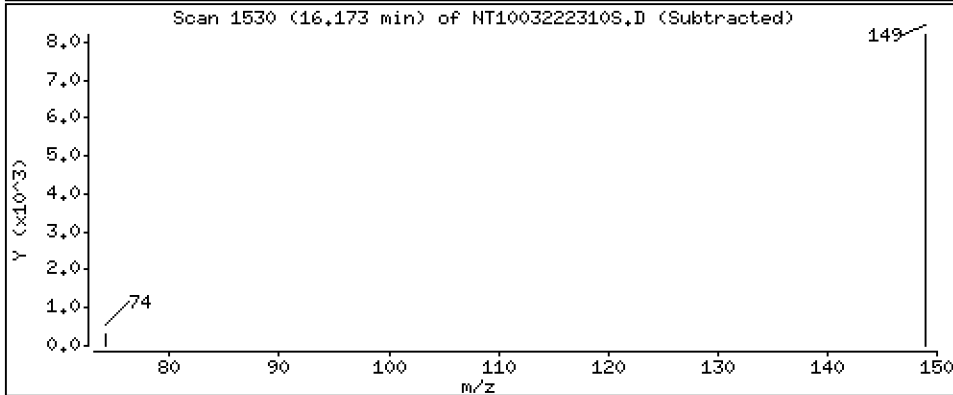
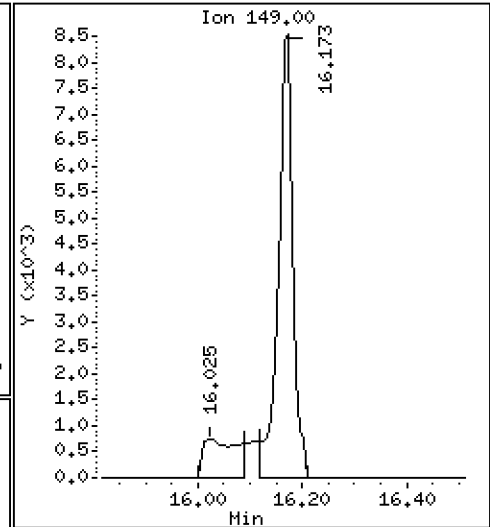
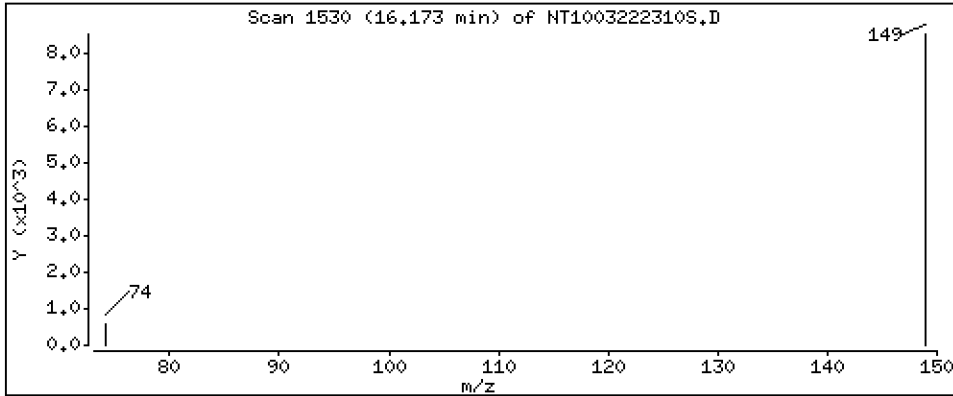
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,1551 ug/L



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01

Volume Injected (uL): 1.0

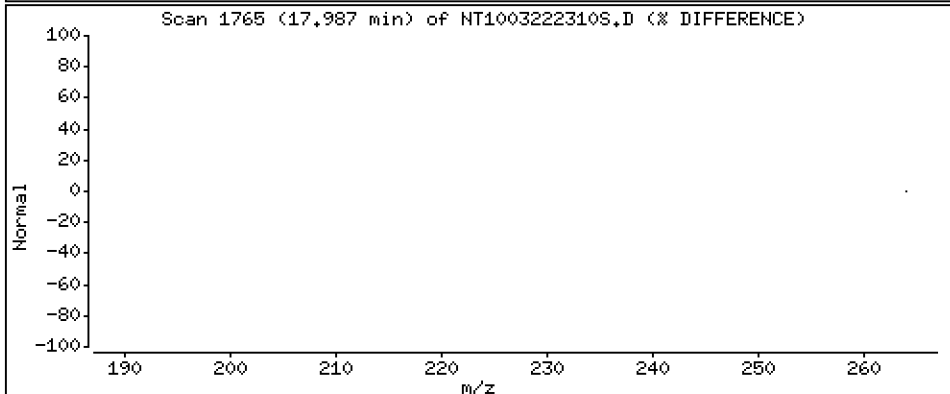
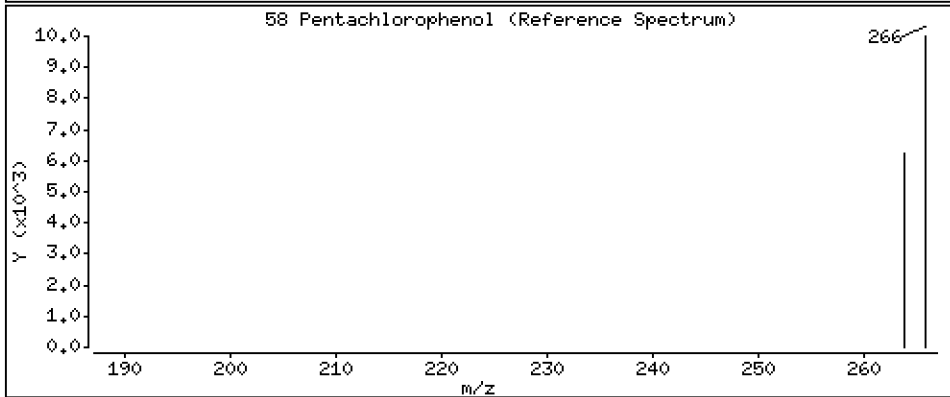
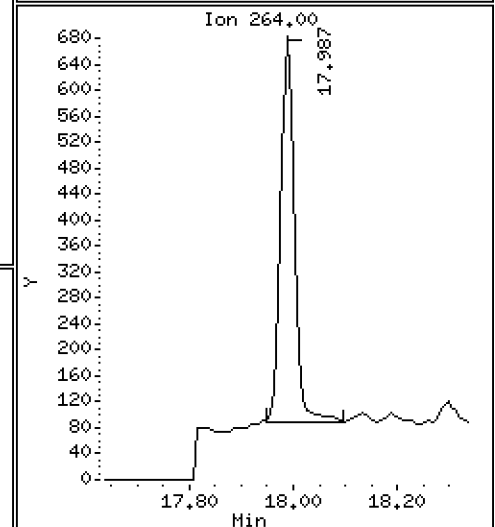
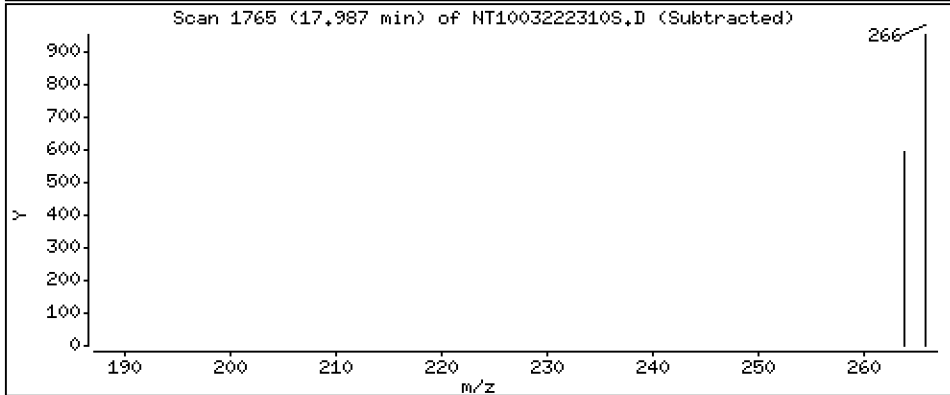
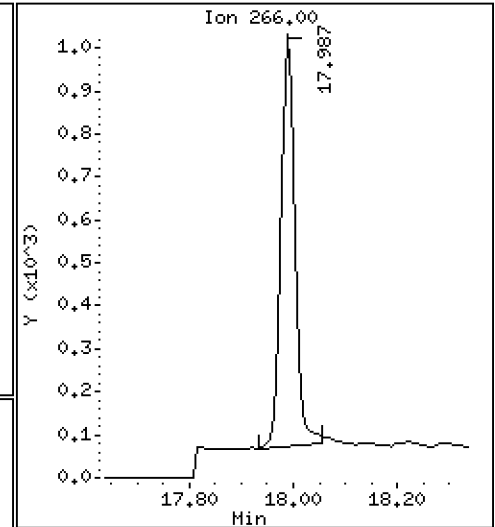
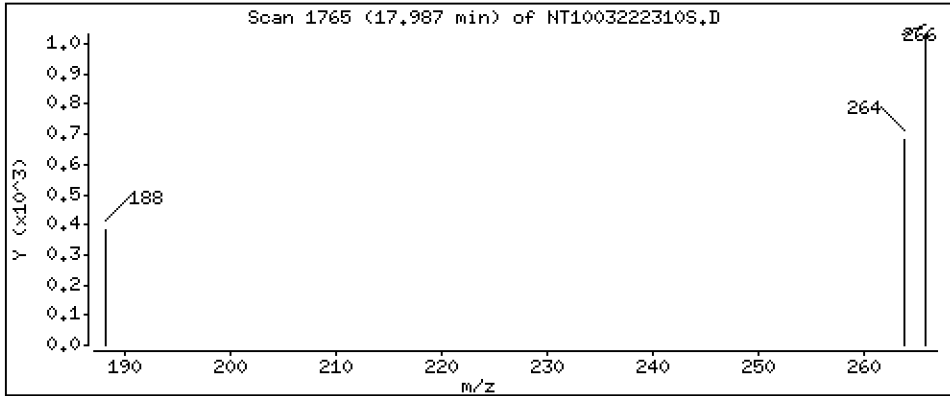
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,07464 ug/L





Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01

Volume Injected (uL): 1.0

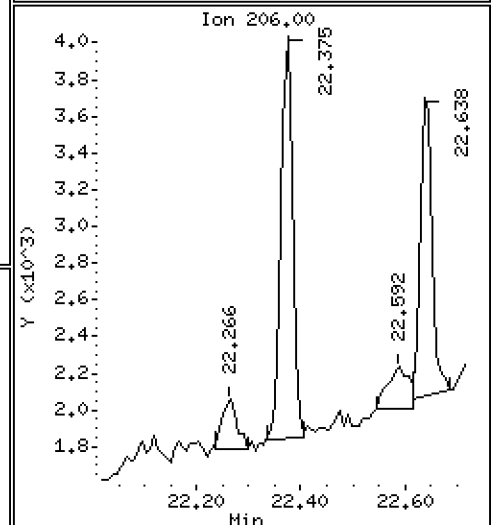
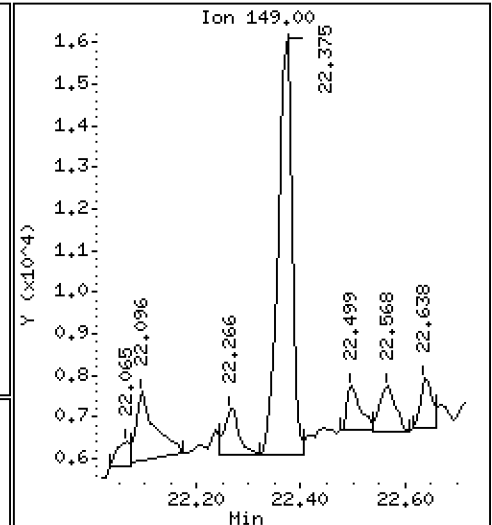
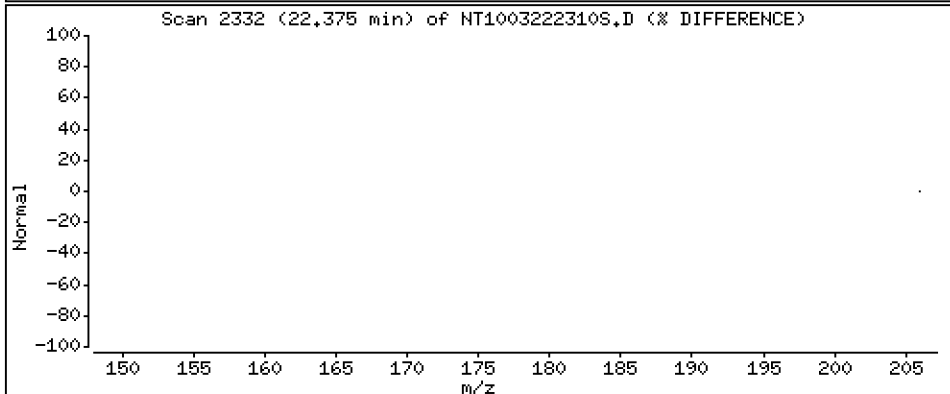
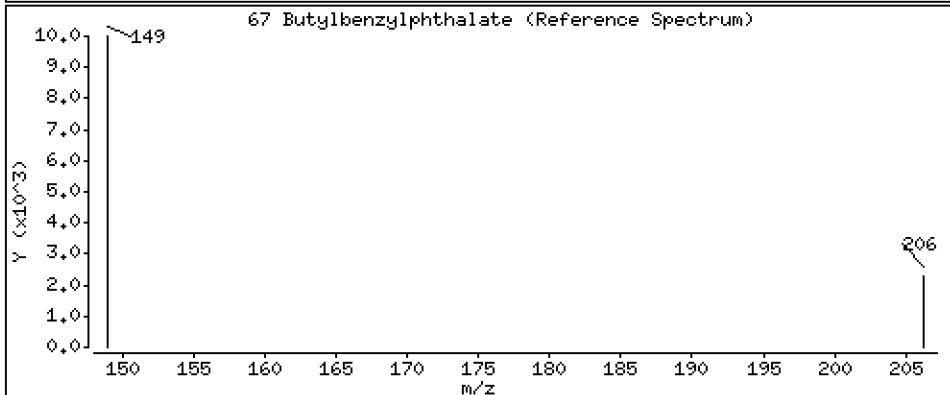
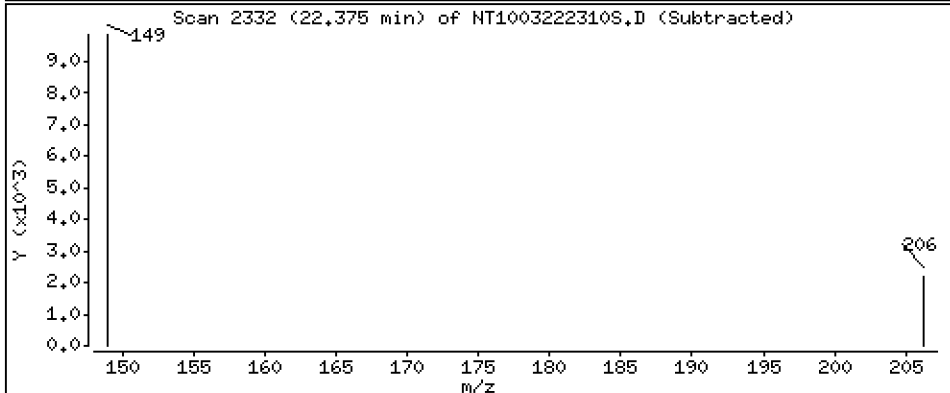
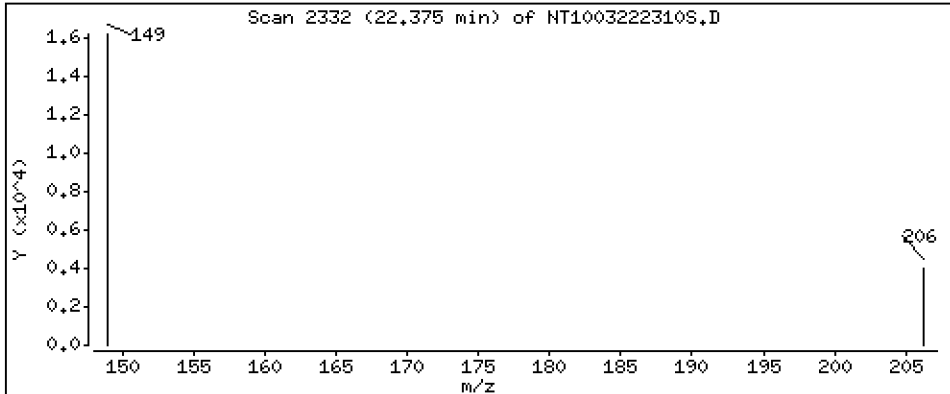
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.2130 ug/L



Date : 22-MAR-2023 22:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-01

Volume Injected (uL): 1.0

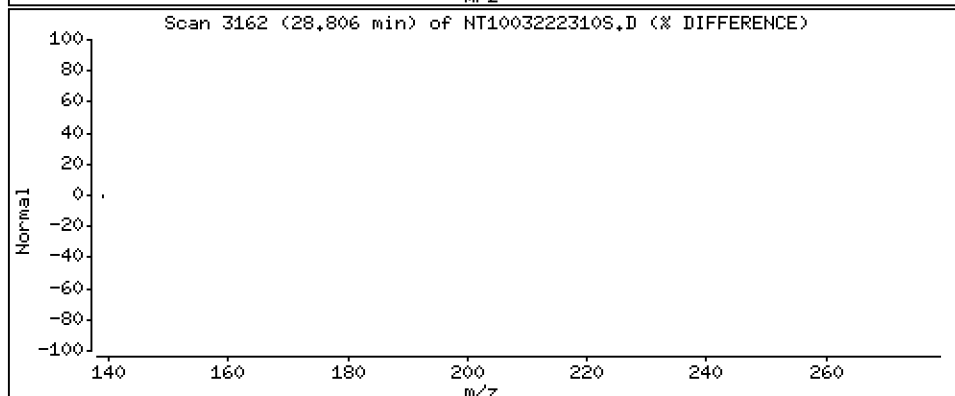
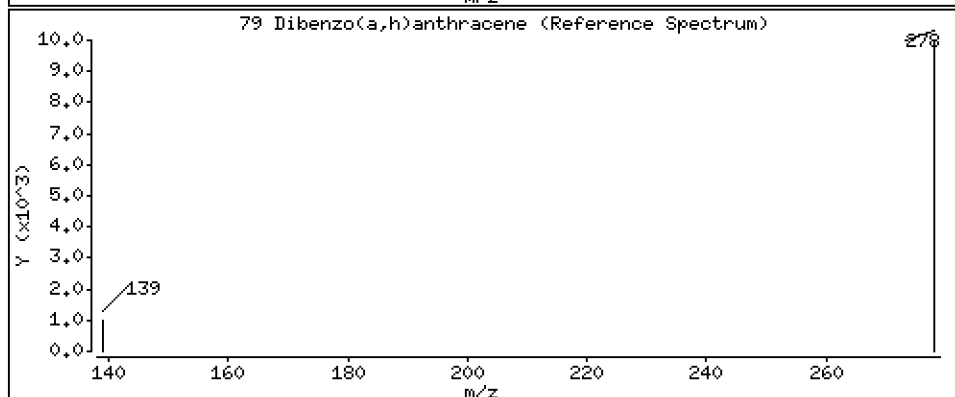
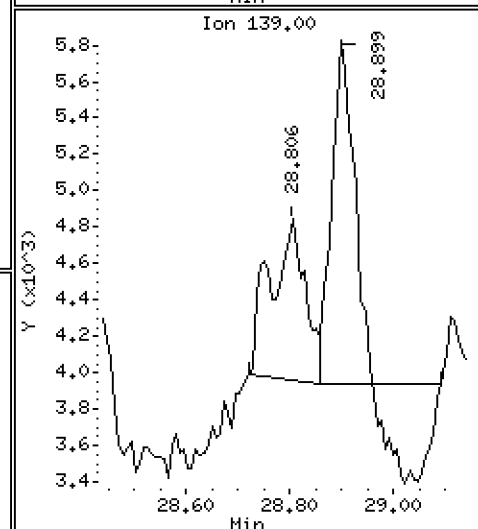
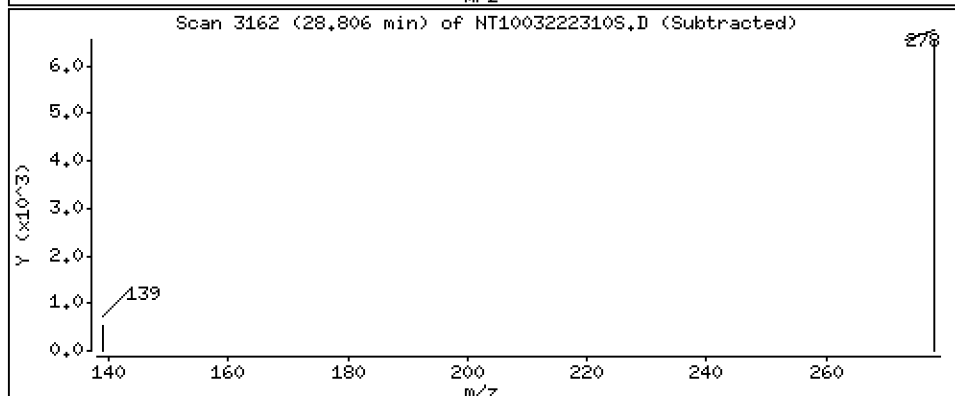
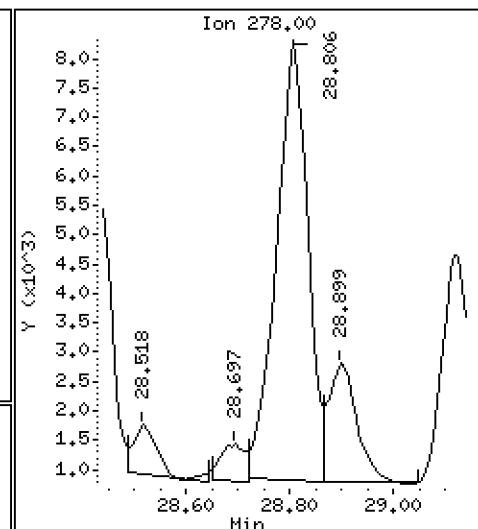
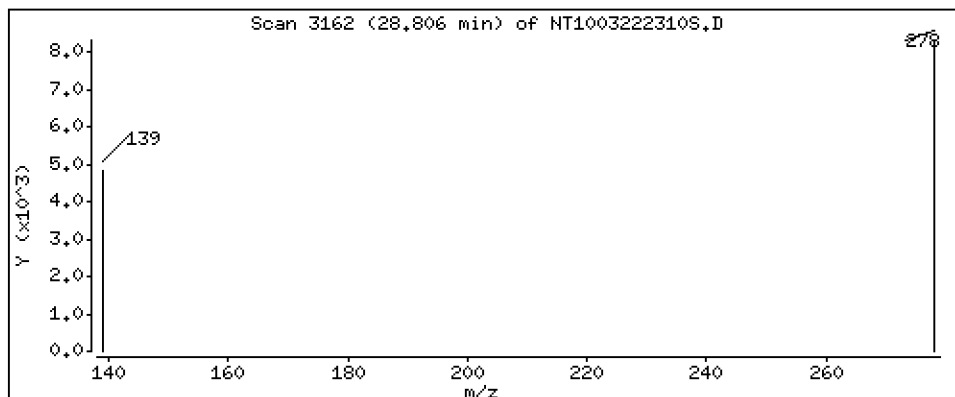
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1313 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222310S.D  
 Lab Smp Id: 23A0179-01  
 Inj Date : 22-MAR-2023 22:49 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : 23A0179-01  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Meth Date : 25-Mar-2023 13:23 yev Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 10  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSSDA.sub  
 Target Version: 4.14  
 Processing Host: ORGDATA102

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT                     | EXP RT         | REL RT | RESPONSE | CONCENTRATIONS |             |
|-------------------------------|-------|-----|------------------------|----------------|--------|----------|----------------|-------------|
|                               |       |     |                        |                |        |          | ON-COLUMN      | FINAL       |
|                               | MASS  |     |                        |                |        |          | (ug/mL)        | ( ug/L)     |
| \$ 1 2-Fluorophenol           | 112   |     | 6.864                  | 6.856 (0.755)  |        | 295834   | 5.33483        | 5.335 (R)   |
| 3 Phenol                      | 94    |     | 8.478                  | 8.471 (0.933)  |        | 583882   | 7.67474        | 7.675       |
| 7 1,3-Dichlorobenzene         | 146   |     | Compound Not Detected. |                |        |          |                |             |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.089                  | 9.090 (1.000)  |        | 182866   | 4.00000        |             |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.113                  | 9.113 (1.003)  |        | 999      | 0.01454        | 0.01454 (M) |
| 11 Benzyl alcohol             | 79    |     | 9.361                  | 9.361 (1.030)  |        | 8722     | 0.19775        | 0.1978 (M)  |
| 12 1,2-Dichlorobenzene        | 146   |     | Compound Not Detected. |                |        |          |                |             |
| 13 2-Methylphenol             | 108   |     | Compound Not Detected. |                |        |          |                |             |
| 15 4-Methylphenol             | 108   |     | 9.858                  | 9.858 (1.085)  |        | 48805    | 0.89096        | 0.8910      |
| 16 N-Nitroso-di-n-propylamine | 70    |     | Compound Not Detected. |                |        |          |                |             |
| 22 2,4-Dimethylphenol         | 107   |     | 10.906                 | 10.897 (0.942) |        | 1740     | 0.03052        | 0.03052     |
| 24 Benzoic acid               | 105   |     | 11.016                 | 11.025 (0.952) |        | 35106    | 1.12183        | 1.122       |
| 26 1,2,4-Trichlorobenzene     | 180   |     | Compound Not Detected. |                |        |          |                |             |
| * 27 Naphthalene-d8           | 136   |     | 11.577                 | 11.569 (1.000) |        | 659488   | 4.00000        |             |
| 30 Hexachlorobutadiene        | 225   |     | Compound Not Detected. |                |        |          |                |             |
| 39 Dimethylphthalate          | 163   |     | 14.703                 | 14.703 (0.967) |        | 5790     | 0.05561        | 0.05561 (M) |
| * 42 Acenaphthene-d10         | 162   |     | 15.198                 | 15.198 (1.000) |        | 329944   | 4.00000        |             |
| 50 Diethylphthalate           | 149   |     | 16.172                 | 16.165 (1.064) |        | 16727    | 0.15507        | 0.1551      |
| 54 N-Nitrosodiphenylamine     | 169   |     | Compound Not Detected. |                |        |          |                |             |
| 57 Hexachlorobenzene          | 284   |     | Compound Not Detected. |                |        |          |                |             |

| Compounds                 | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |             |
|---------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-------------|
|                           |       |     |                        |        |         |          | ON-COLUMN      | FINAL       |
|                           | MASS  |     |                        |        |         |          | (ug/mL)        | ( ug/L)     |
| =====                     | ===== |     | =====                  | =====  | =====   | =====    | =====          | =====       |
| 58 Pentachlorophenol      | 266   |     | 17.987                 | 17.987 | (0.986) | 1697     | 0.07464        | 0.07464 (M) |
| * 59 Phenanthrene-d10     | 188   |     | 18.250                 | 18.250 | (1.000) | 685590   | 4.00000        |             |
| \$ 66 Terphenyl-d14       | 244   |     | 21.430                 | 21.422 | (0.918) | 504175   | 4.88251        | 4.883 (R)   |
| 67 Butylbenzylphthalate   | 149   |     | 22.374                 | 22.367 | (0.958) | 17776    | 0.21297        | 0.2130      |
| * 69 Chrysene-d12         | 240   |     | 23.350                 | 23.343 | (1.000) | 633755   | 4.00000        |             |
| * 77 Perylene-d12         | 264   |     | 26.044                 | 26.029 | (1.000) | 747858   | 4.00000        |             |
| 79 Dibenzo(a,h)anthracene | 278   |     | 28.805                 | 28.790 | (1.106) | 32222    | 0.13132        | 0.1313      |
| 90 N-Nitrosodimethylamine | 74    |     | Compound Not Detected. |        |         |          |                |             |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT1003222310S.D  
 Lab Smp Id: 23A0179-01  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Misc Info:

Calibration Date: 22-MAR-2023  
 Calibration Time: 18:20  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 135191   | 67596      | 270382  | 182866 | 35.26 |
| 27 Naphthalene-d8   | 487226   | 243613     | 974452  | 659488 | 35.36 |
| 42 Acenaphthene-d10 | 246588   | 123294     | 493176  | 329944 | 33.80 |
| 59 Phenanthrene-d10 | 479352   | 239676     | 958704  | 685590 | 43.02 |
| 69 Chrysene-d12     | 439791   | 219896     | 879582  | 633755 | 44.10 |
| 77 Perylene-d12     | 505700   | 252850     | 1011400 | 747858 | 47.89 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.09     | 8.59     | 9.59  | 9.09   | -0.00 |
| 27 Naphthalene-d8   | 11.57    | 11.07    | 12.07 | 11.58  | 0.06  |
| 42 Acenaphthene-d10 | 15.20    | 14.70    | 15.70 | 15.20  | -0.00 |
| 59 Phenanthrene-d10 | 18.25    | 17.75    | 18.75 | 18.25  | -0.00 |
| 69 Chrysene-d12     | 23.34    | 22.84    | 23.84 | 23.35  | 0.03  |
| 77 Perylene-d12     | 26.03    | 25.53    | 26.53 | 26.04  | 0.06  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222310S.D

Lab ID: 23A0179-01

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 22-MAR-2023 22:49

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

---

NONE

RRT check based on Ccal File: SIM.b/NT1003222303S.D

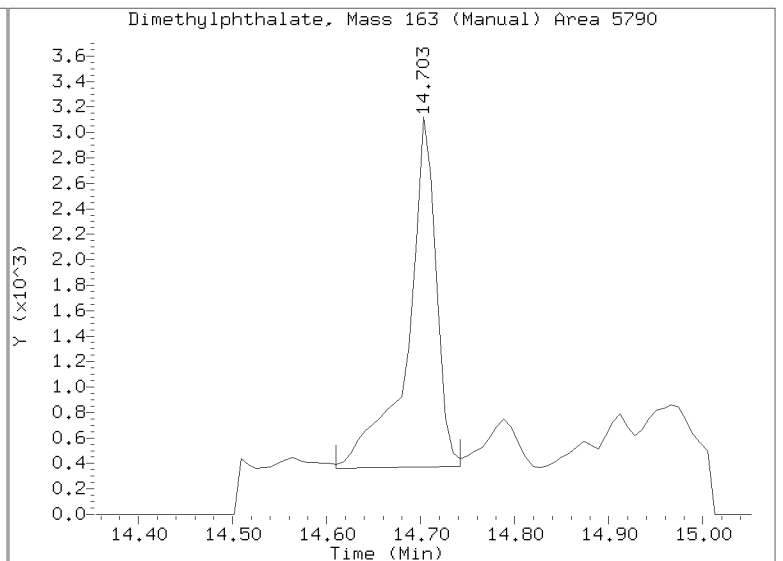
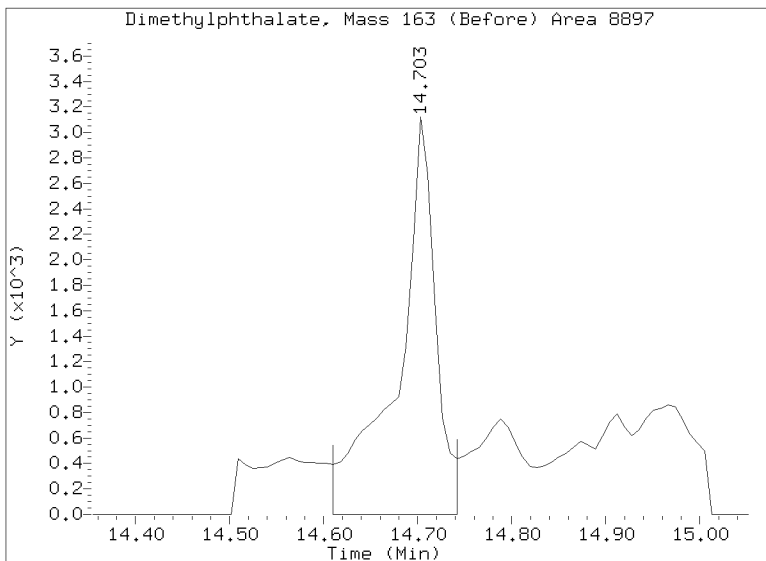
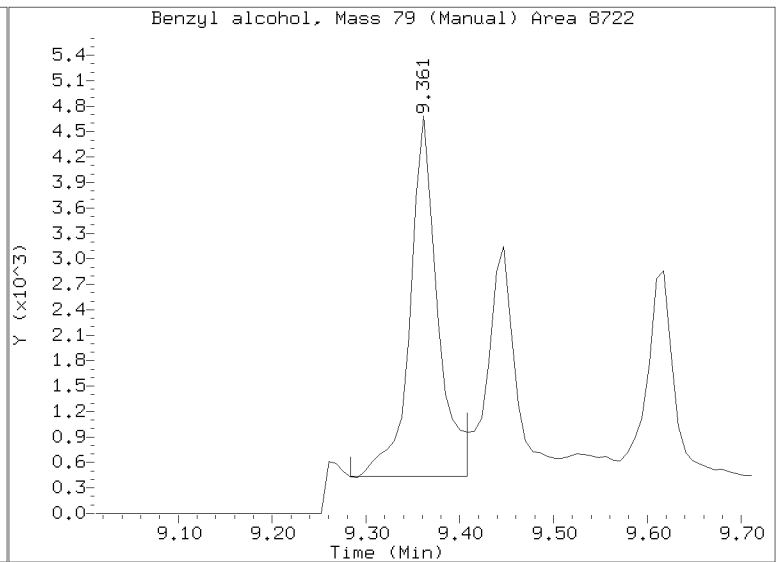
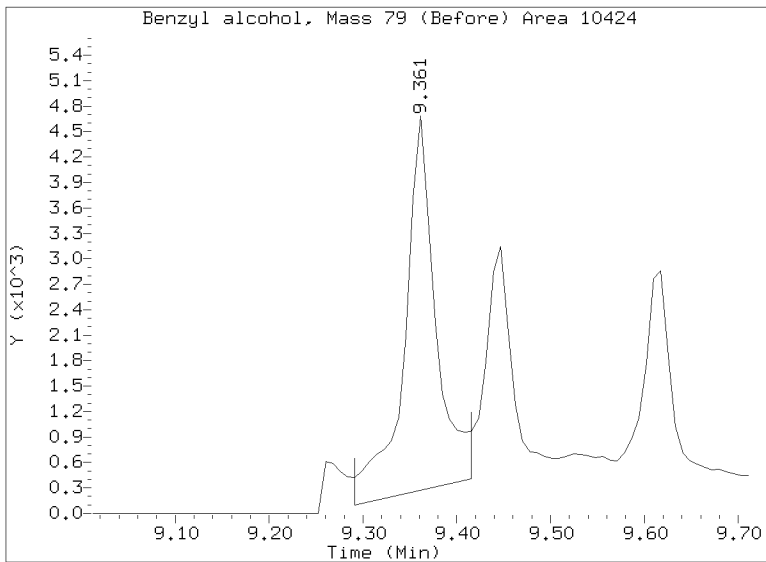
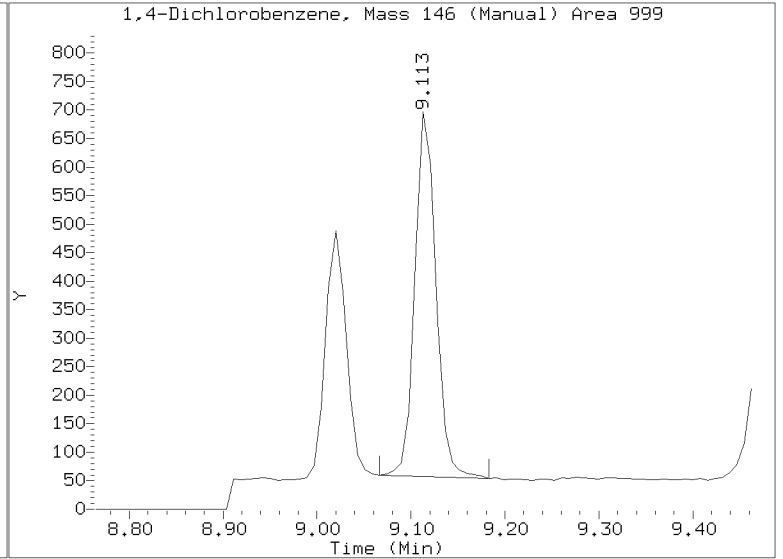
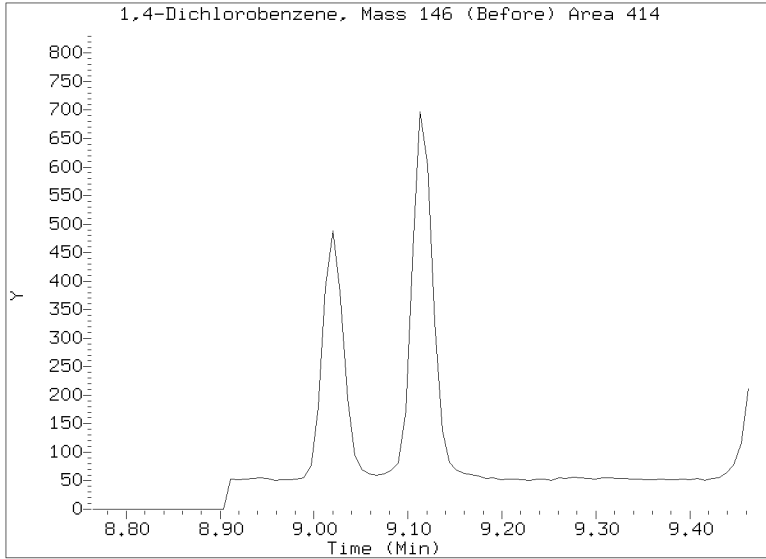
On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

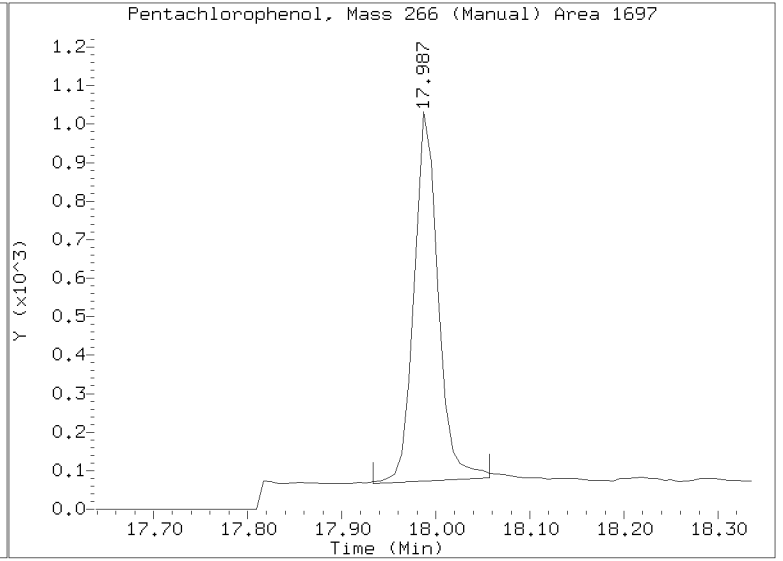
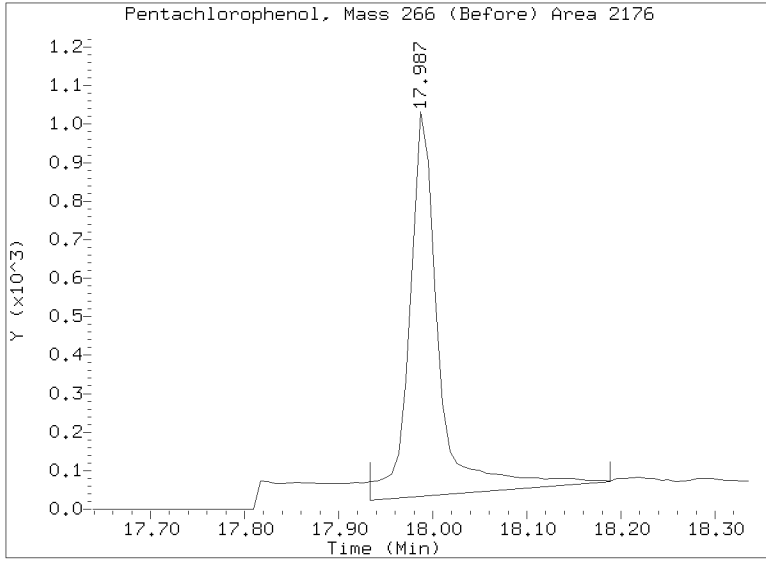
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222310S.D  
Injection Date: 22-MAR-2023 22:49  
Lab ID:23A0179-01 Client ID:  
Report Date: 03/25/2023 13:23



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222310S.D  
Injection Date: 22-MAR-2023 22:49  
Lab ID:23A0179-01 Client ID:  
Report Date: 03/25/2023 13:23







**Form I**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8270E-SIM**  
**SIM SVOC Organics (Dual scan list)**

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-02RE1 A

SDG: 23A0179

Sampled: 01/10/23 08:43

Prepared: 03/17/23 14:20

File ID: NT1003222311S.D

% Solids: 66.21

Preparation: EPA 3546 (Microwave)

Analyzed: 03/22/23 23:27

Batch: BLC0442

Sequence: SLC0407

Initial/Final: 15.82 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00049

Cleanups: GPC

| CAS NO.  | COMPOUND               | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|------------------------|----------|----------------------|---|------|------|
| 106-46-7 | 1,4-Dichlorobenzene    | 1        | 1.3                  | J | 0.6  | 4.8  |
| 95-50-1  | 1,2-Dichlorobenzene    | 1        | 0.8                  | J | 0.7  | 4.8  |
| 100-51-6 | Benzyl Alcohol         | 1        | 13.5                 | J | 2.4  | 19.1 |
| 65-85-0  | Benzoic acid           | 1        | 36.7                 | J | 12.8 | 95.5 |
| 105-67-9 | 2,4-Dimethylphenol     | 1        | 19.1                 | U | 2.1  | 19.1 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1        | 4.8                  | U | 2.6  | 4.8  |
| 86-30-6  | N-Nitrosodiphenylamine | 1        | 2.5                  | J | 1.3  | 4.8  |
| 87-86-5  | Pentachlorophenol      | 1        | 19.1                 | U | 2.0  | 19.1 |

| SURROGATES      | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|-----------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol  | 716.03                | 533                   | 74.4  | 27 - 120  |   |
| p-Terphenyl-d14 | 477.35                | 510                   | 107   | 37 - 120  |   |

Data File: \\target\share\chem3\nt10.1\20230322.16\SIM.B\NT10032223115.D

Date: 22-MAR-2023 23:27

Client ID:

Sample Info: 23A0179-02

Volume Injected (uL): 1.0

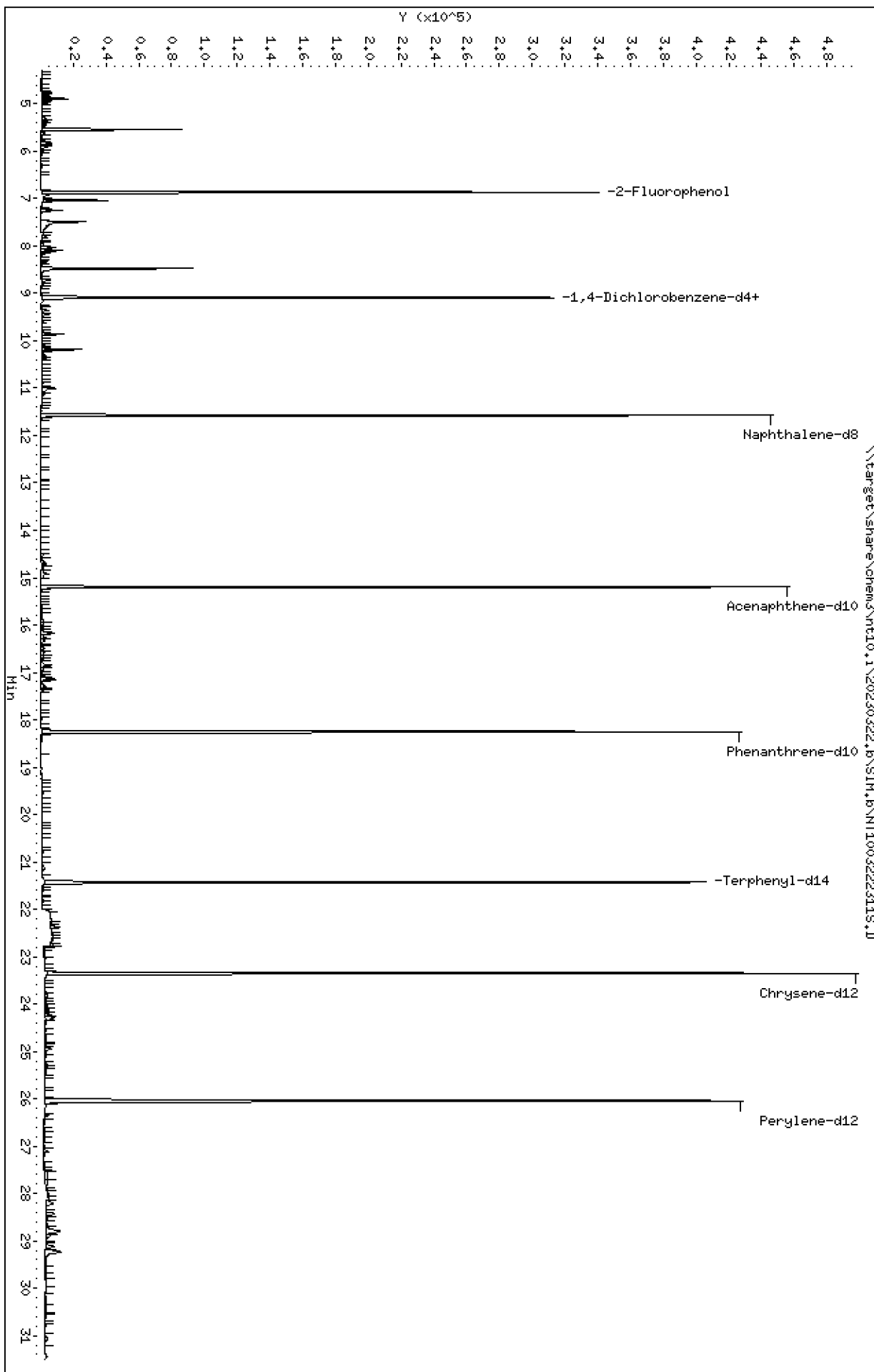
Column phase: ZB-5msi

Instrument: nt10.1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02

Volume Injected (uL): 1.0

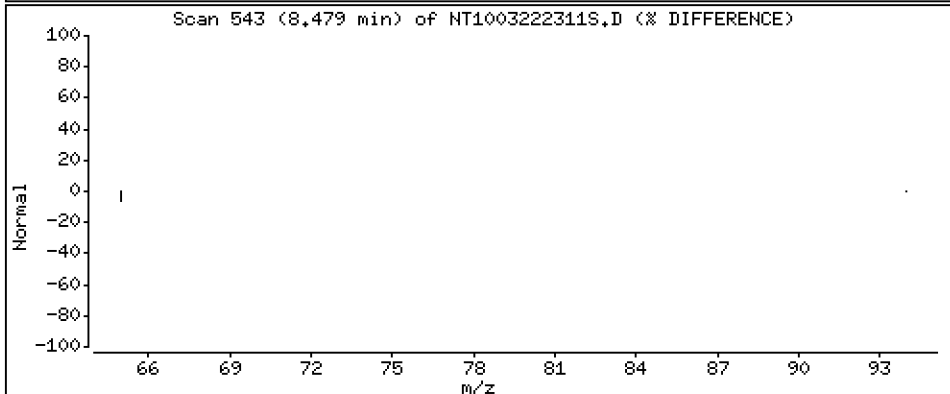
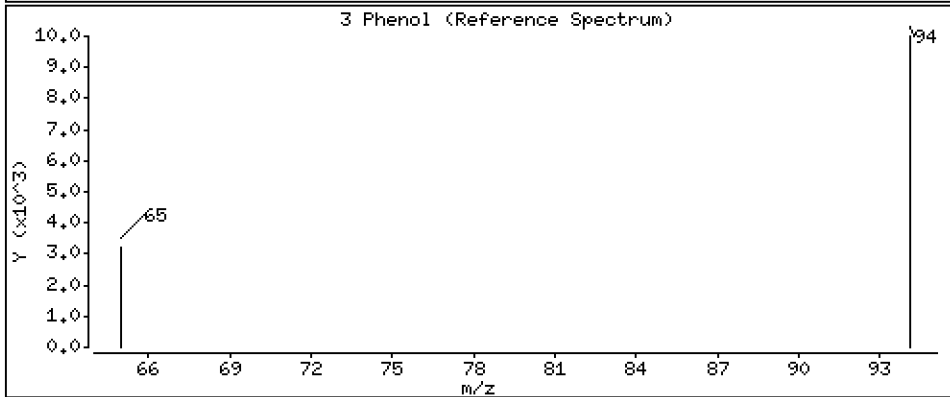
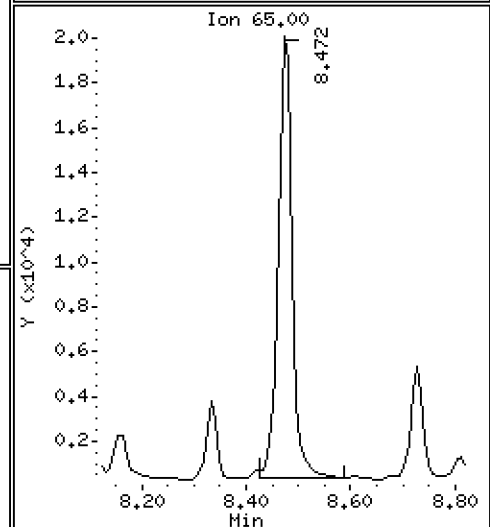
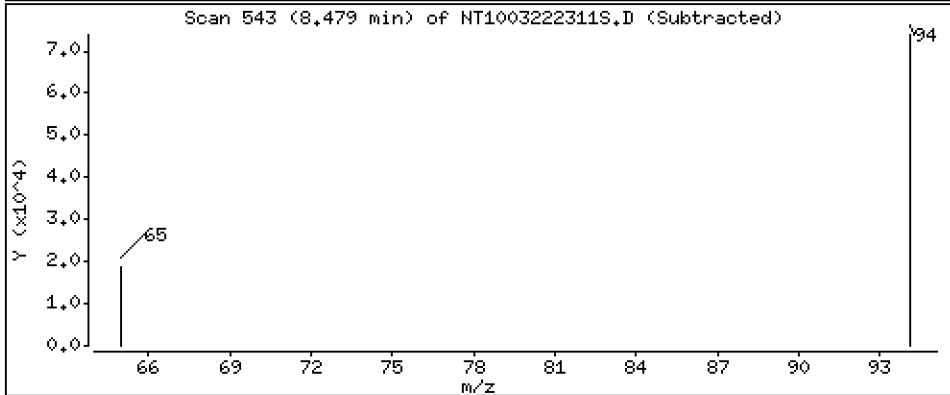
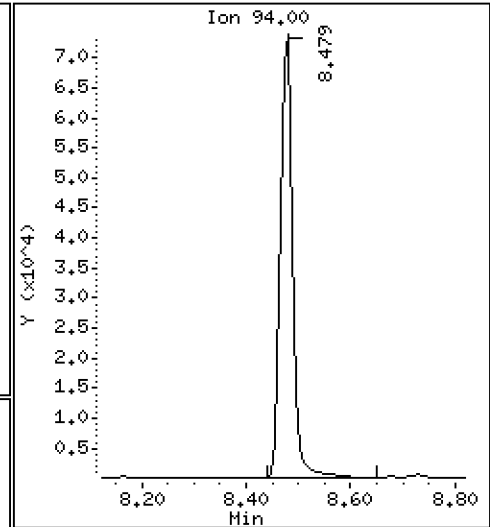
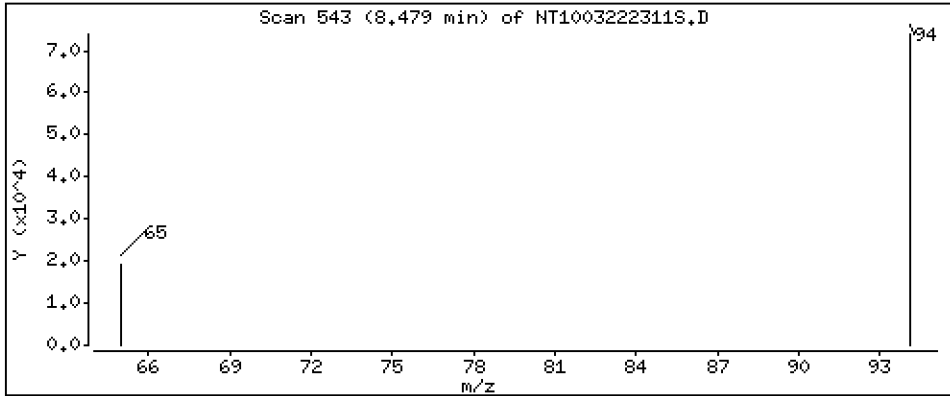
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 1.378 ug/L



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02

Volume Injected (uL): 1.0

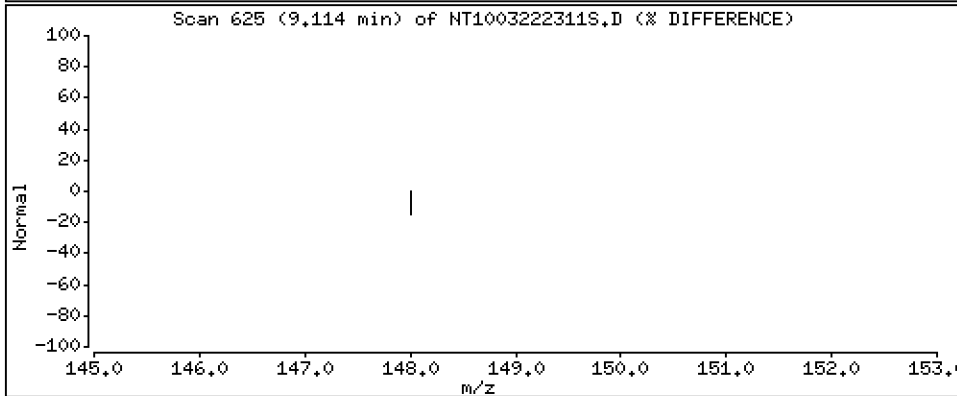
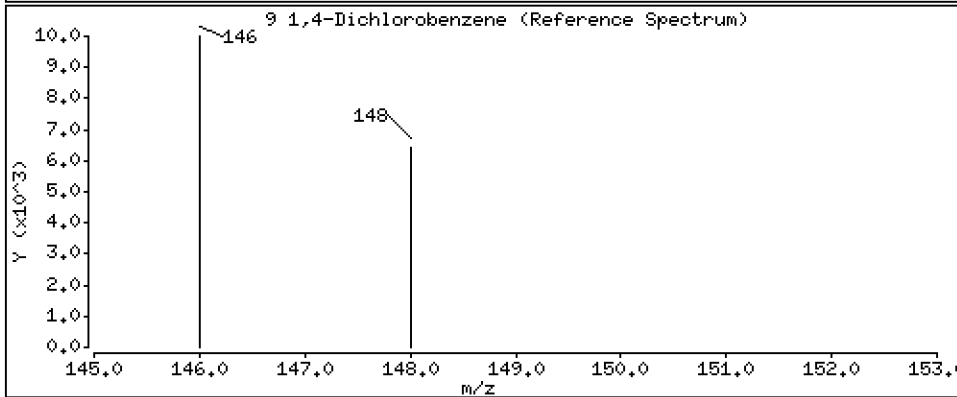
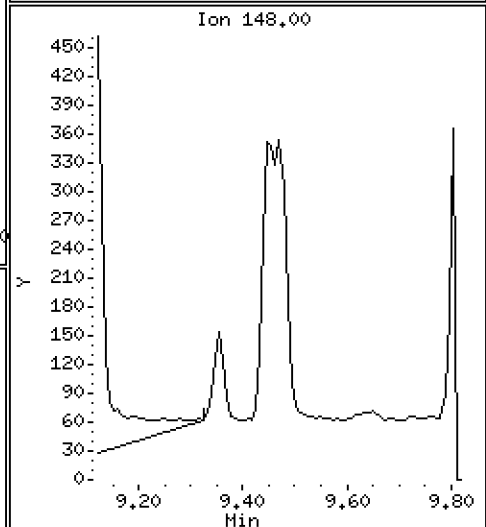
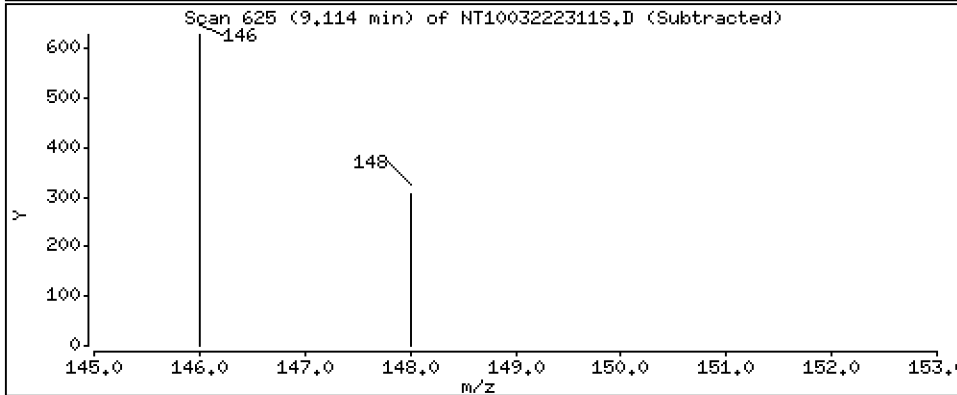
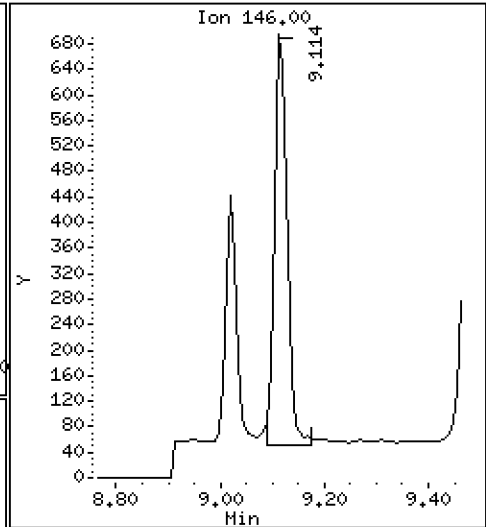
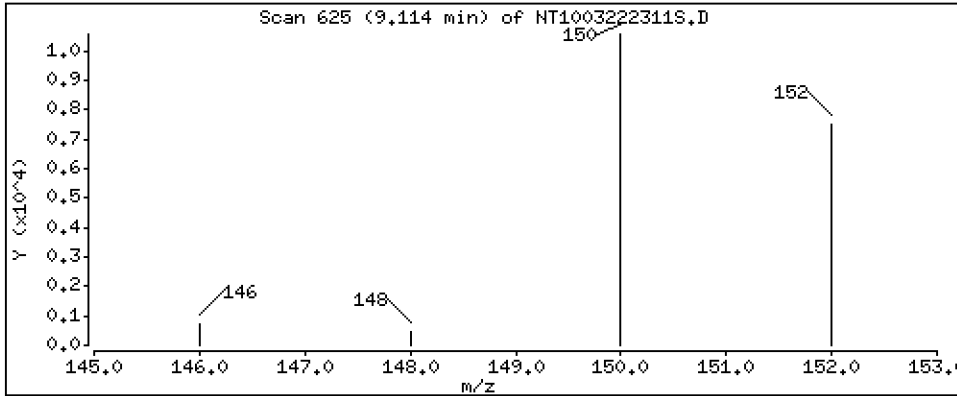
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,01389 ug/L



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02

Volume Injected (uL): 1.0

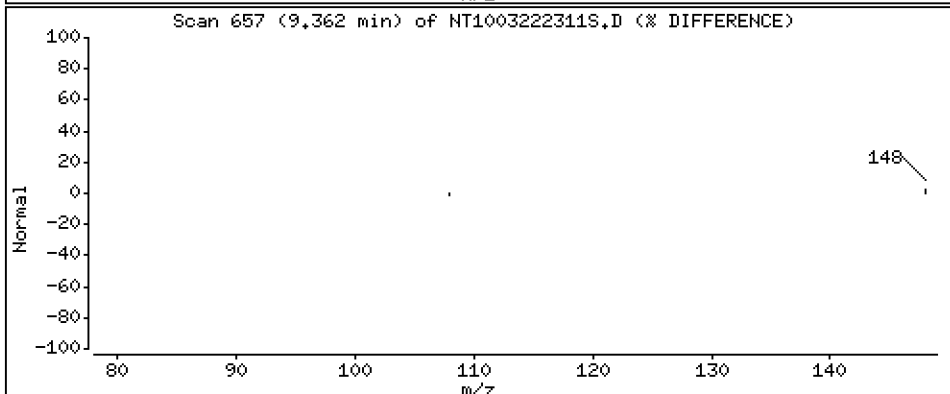
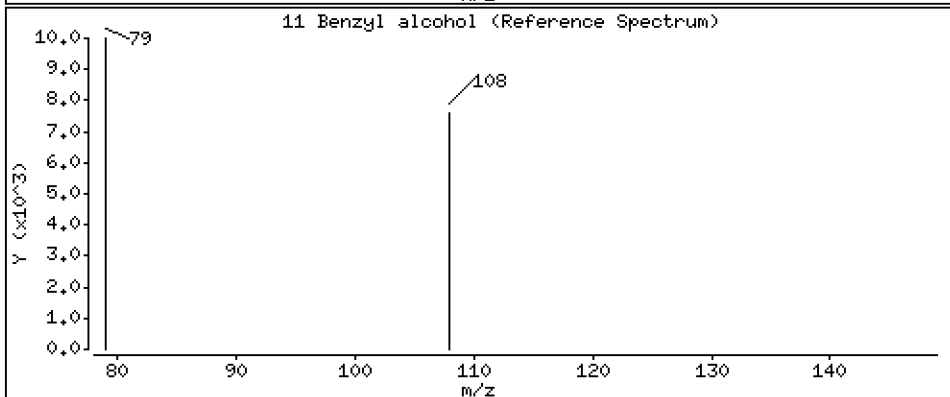
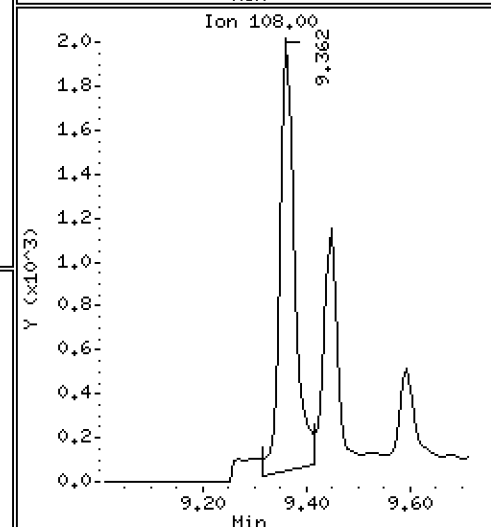
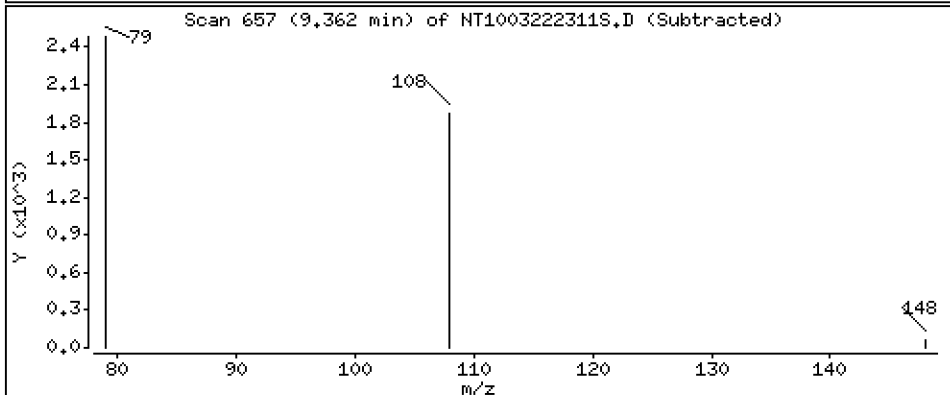
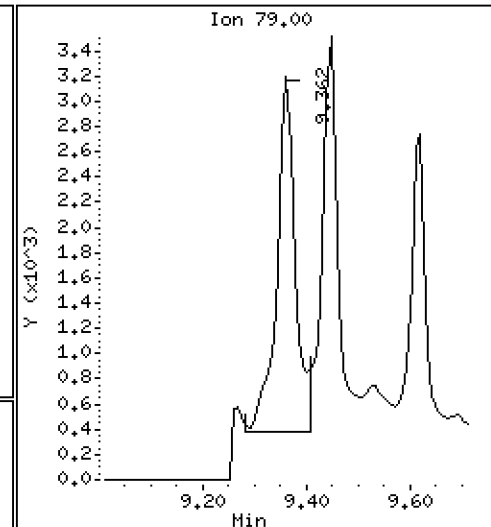
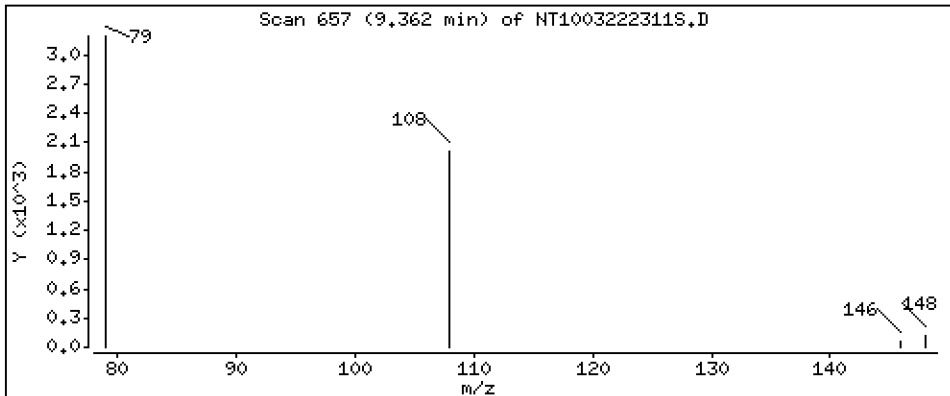
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1417 ug/L



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02

Volume Injected (uL): 1.0

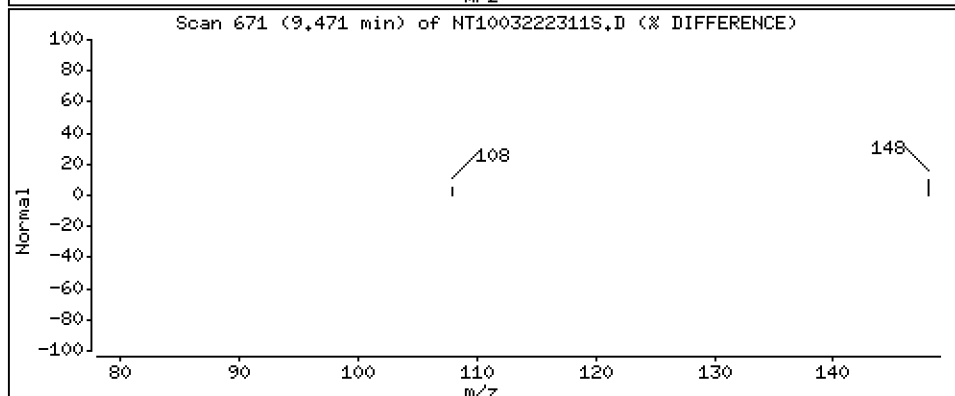
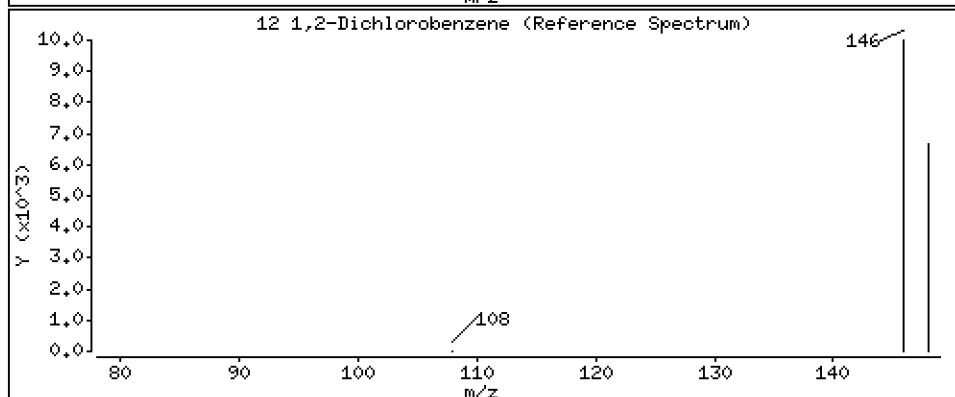
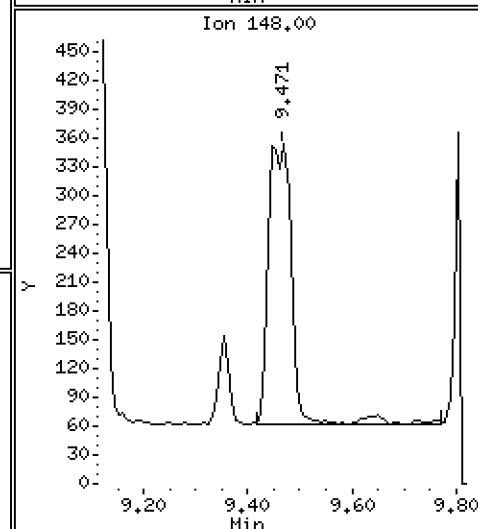
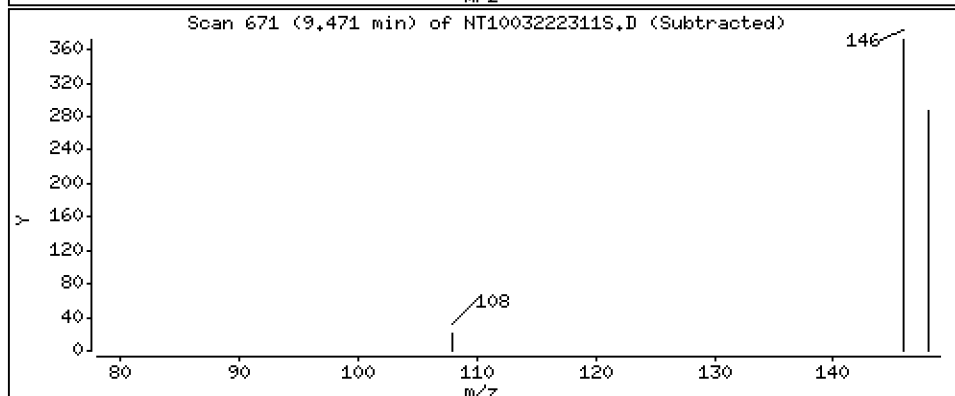
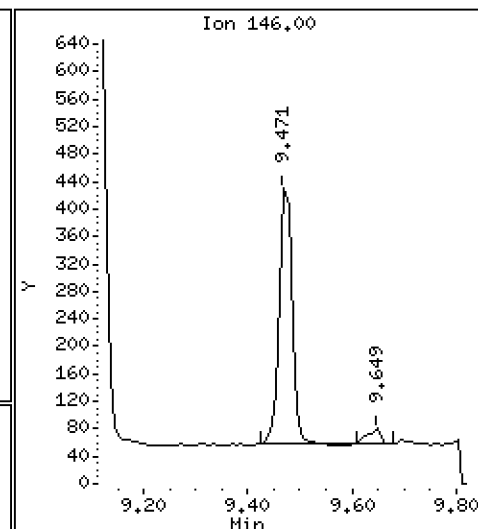
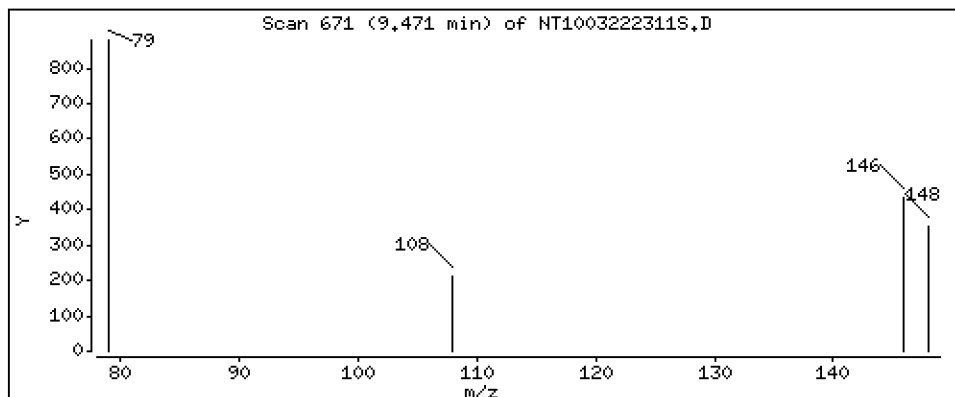
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,008154 ug/L



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02

Volume Injected (uL): 1.0

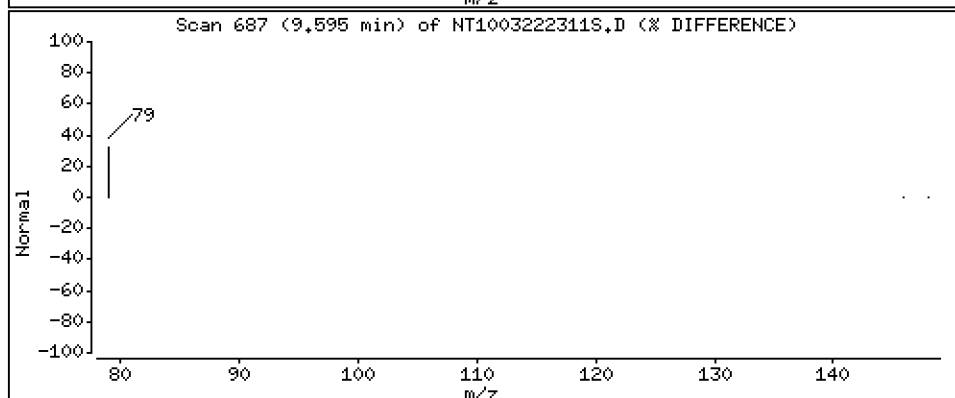
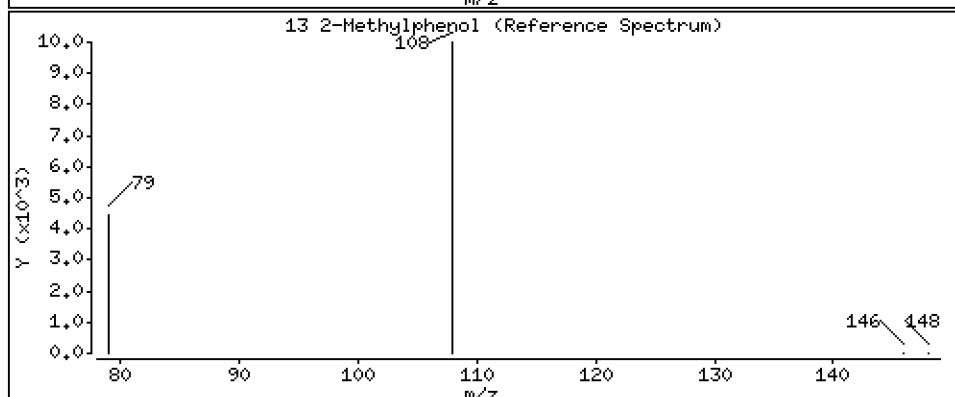
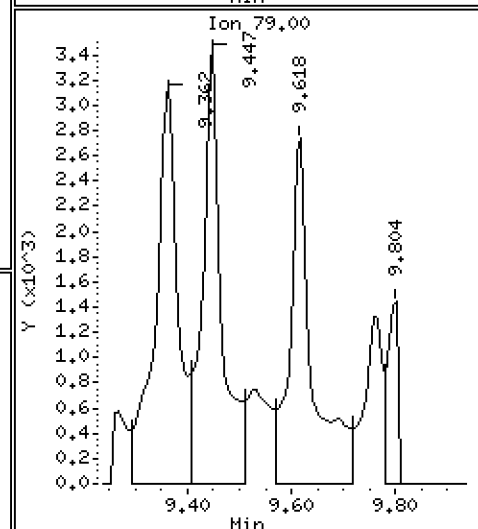
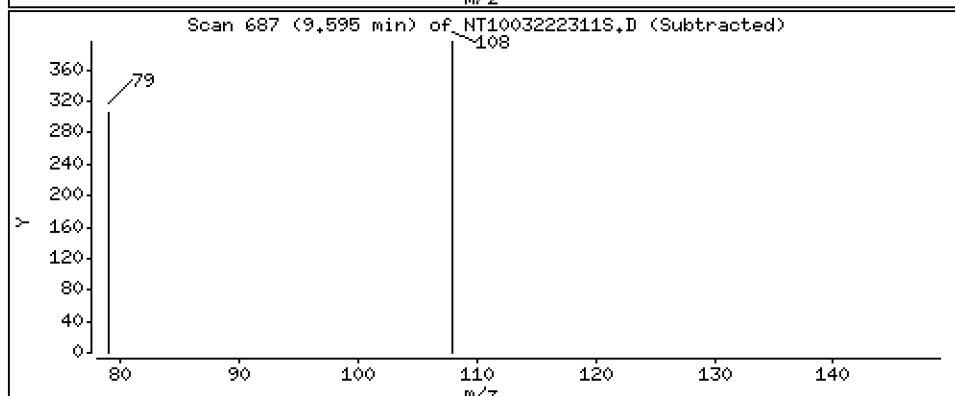
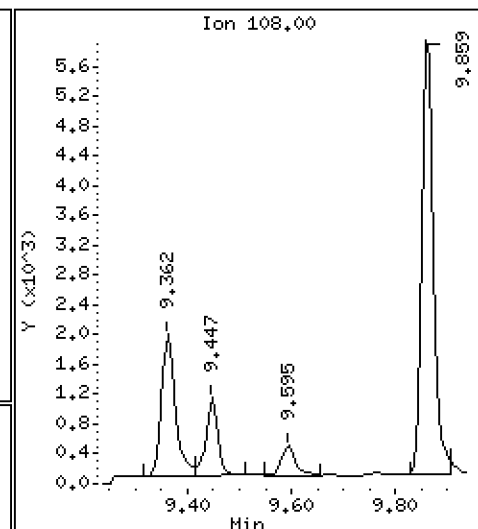
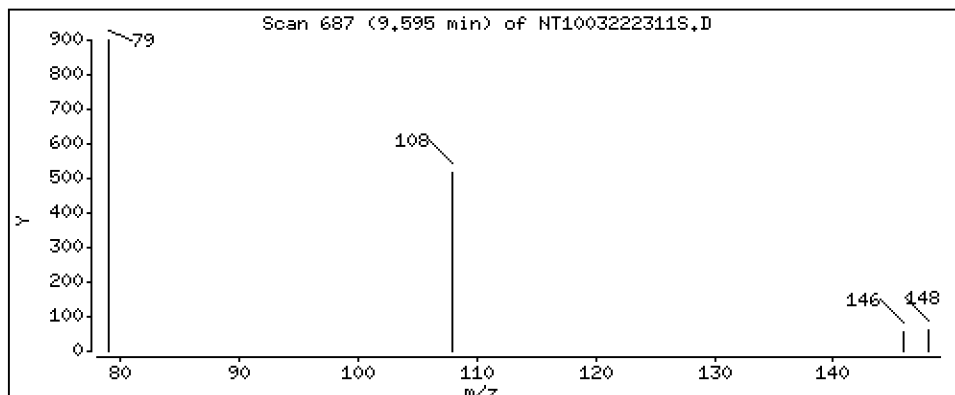
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 0,01277 ug/L



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02

Volume Injected (uL): 1.0

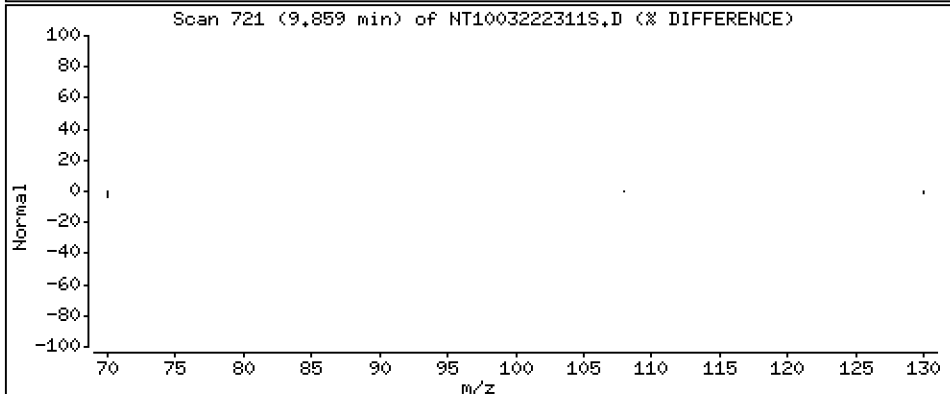
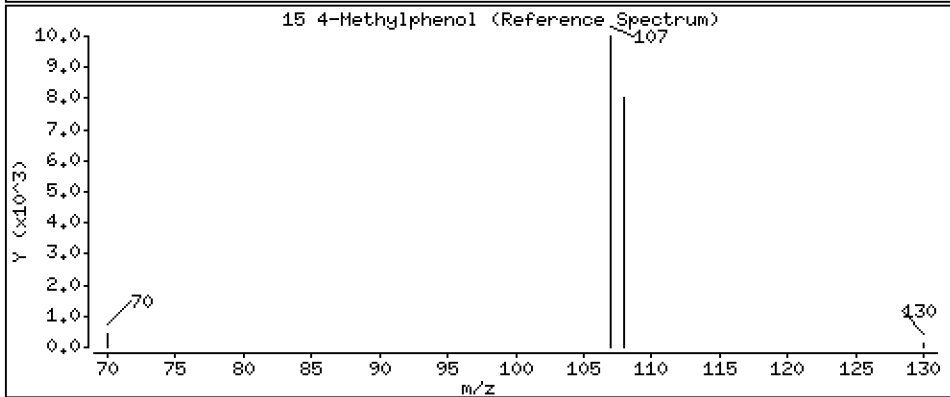
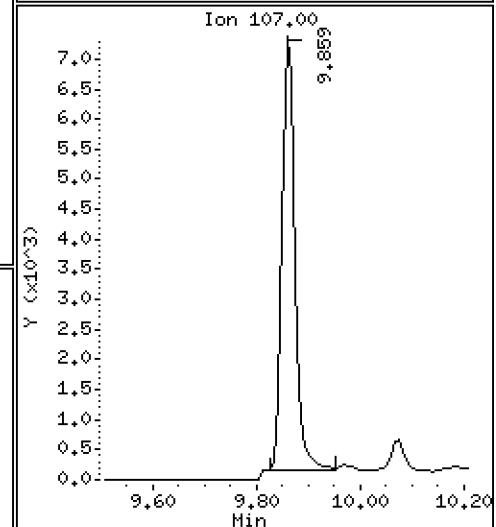
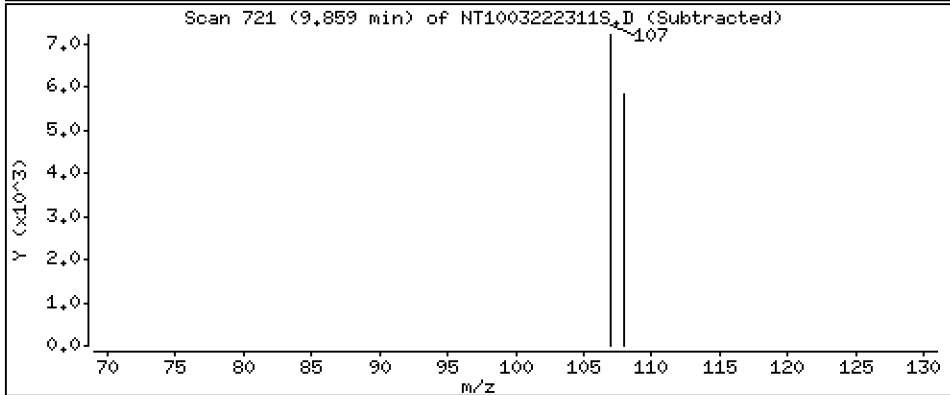
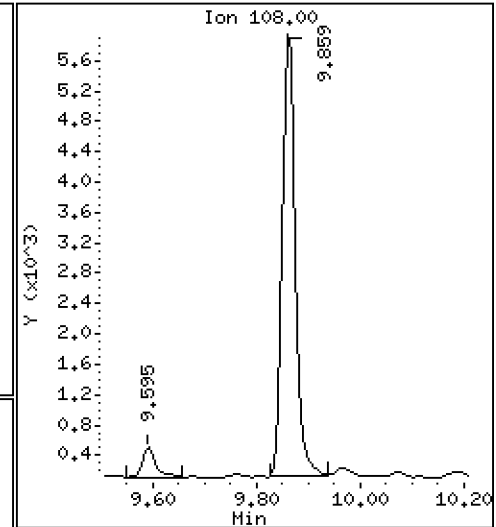
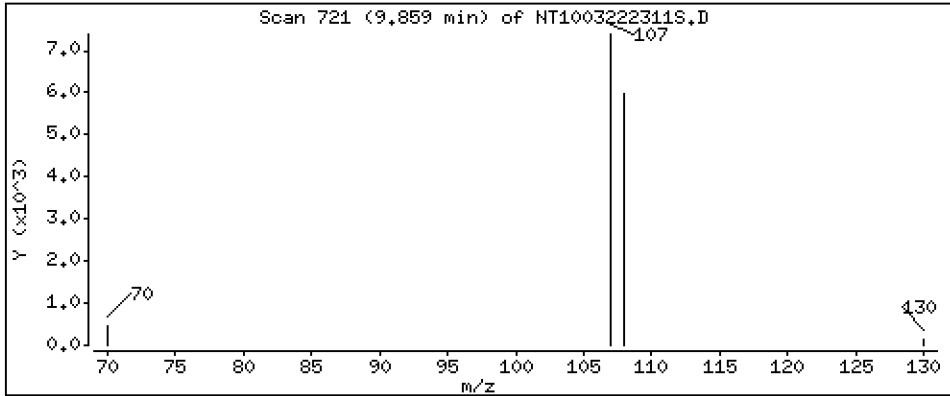
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1611 ug/L





Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02

Volume Injected (uL): 1.0

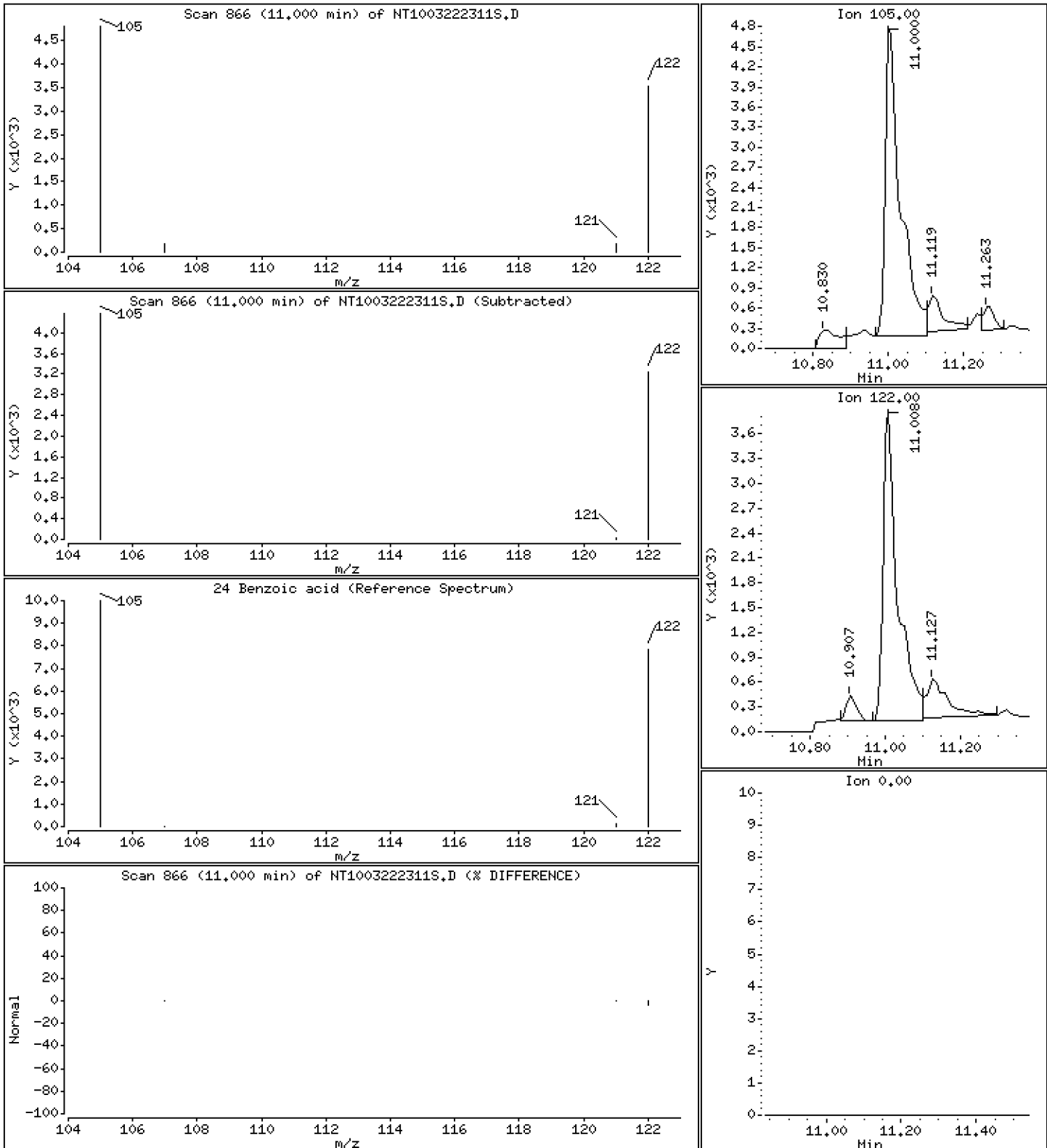
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.3844 ug/L



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02

Volume Injected (uL): 1.0

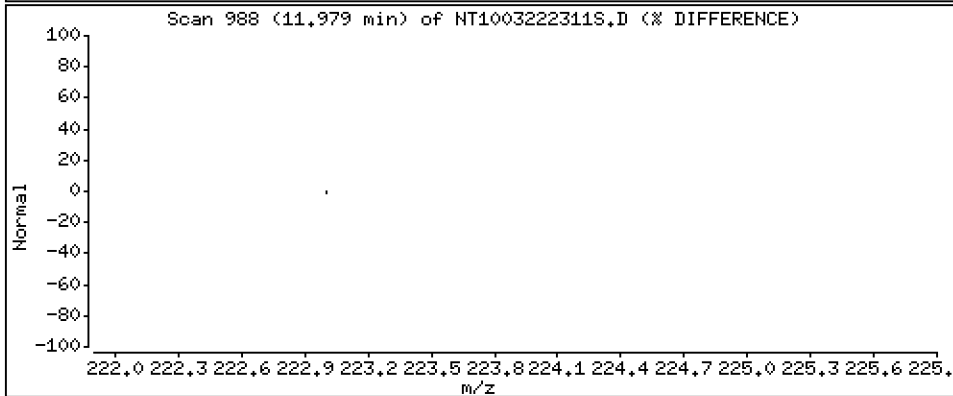
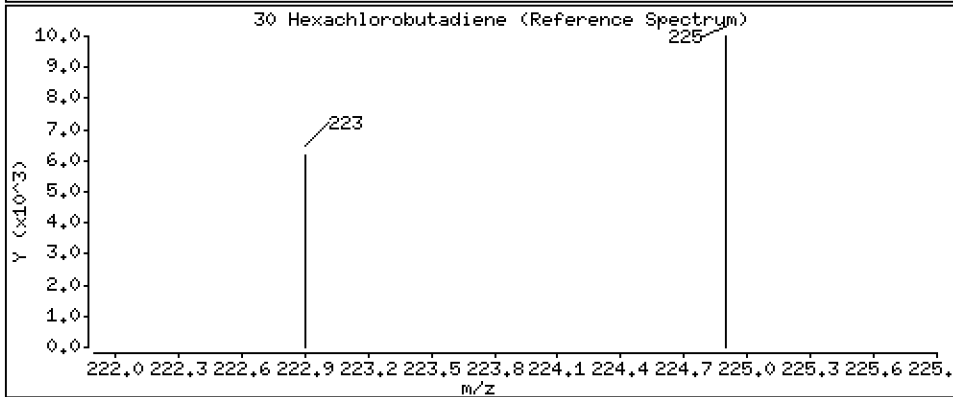
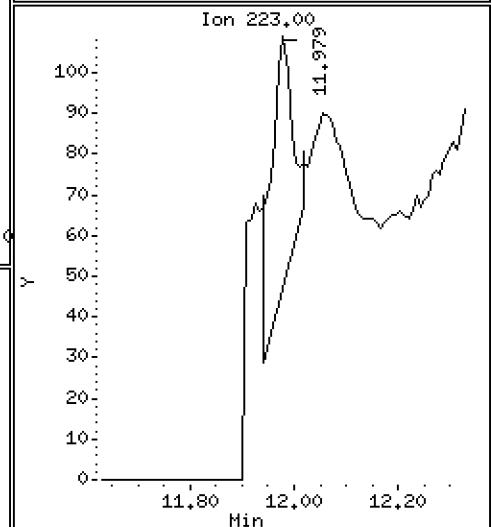
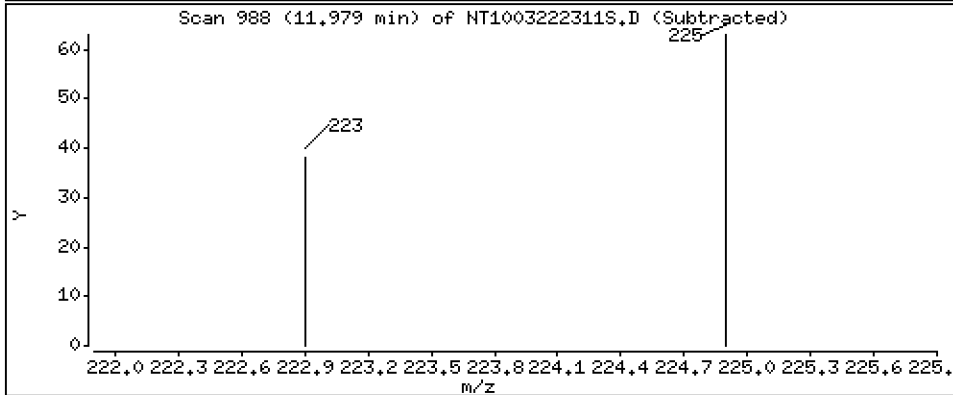
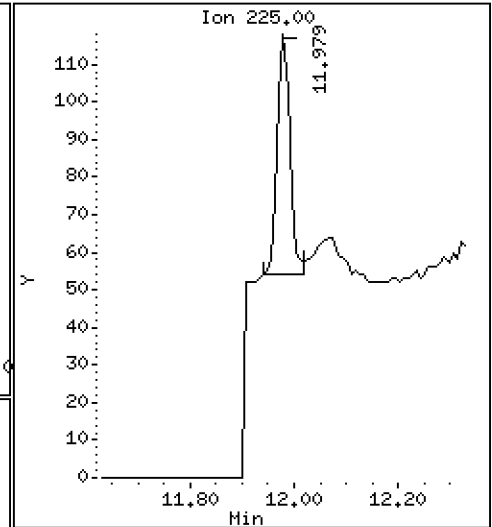
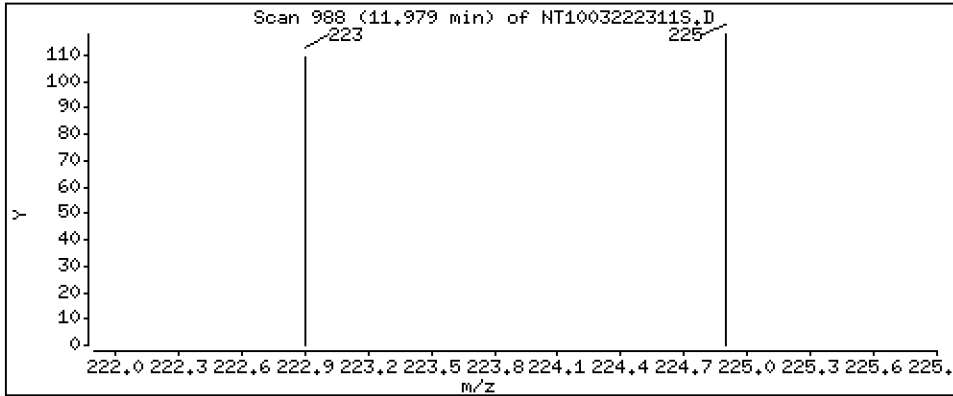
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,002651 ug/L



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02

Volume Injected (uL): 1.0

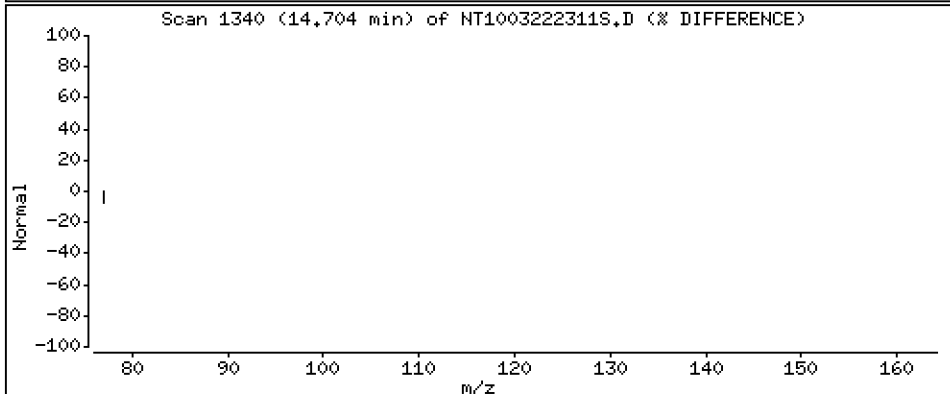
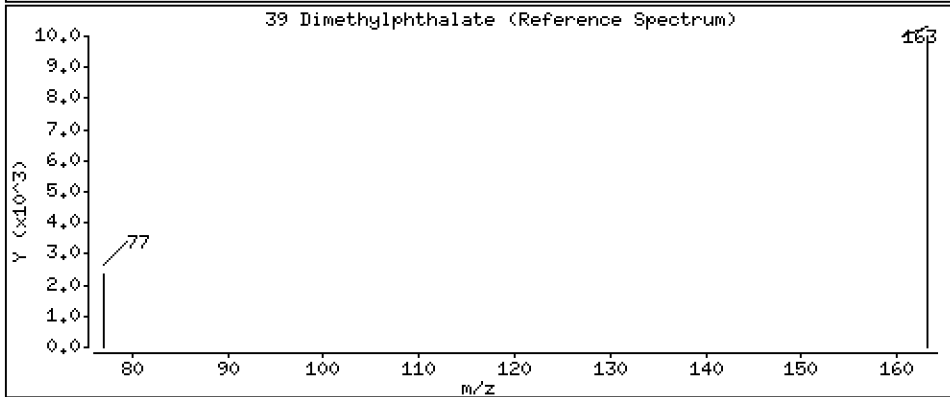
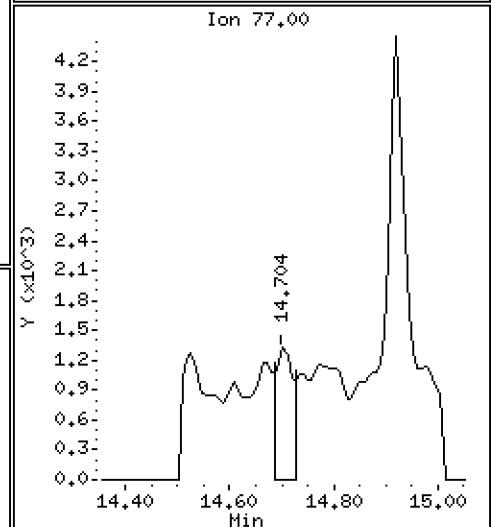
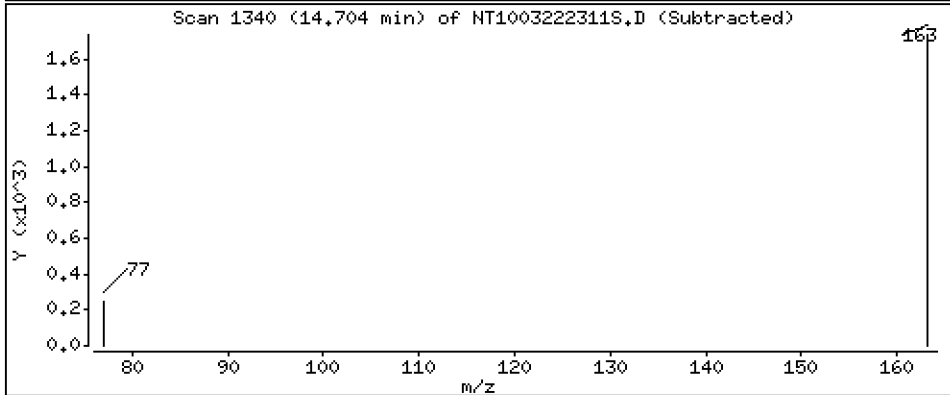
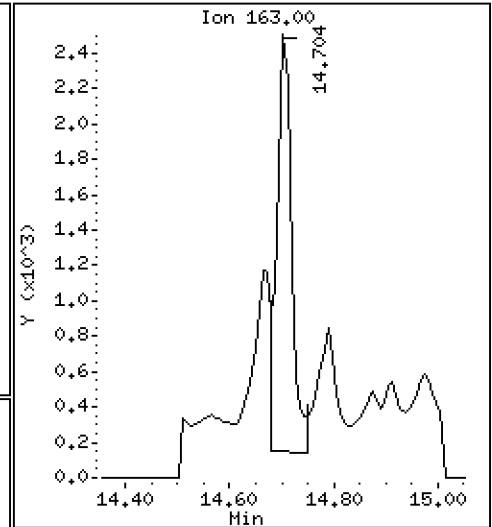
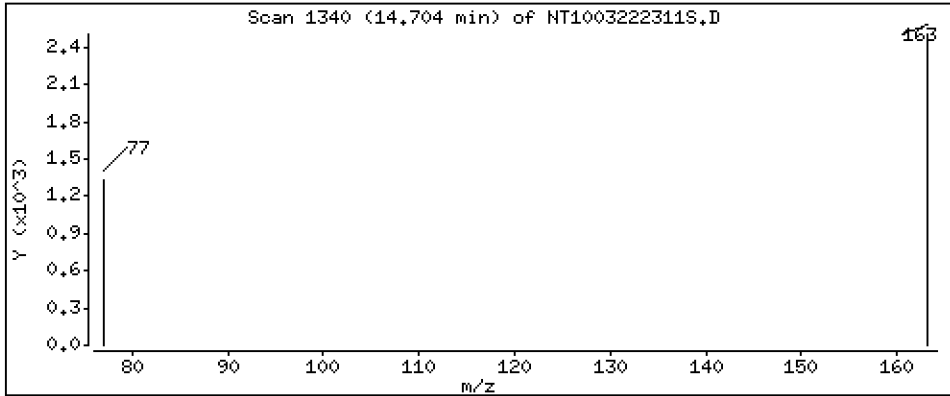
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,04212 ug/L



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02

Volume Injected (uL): 1.0

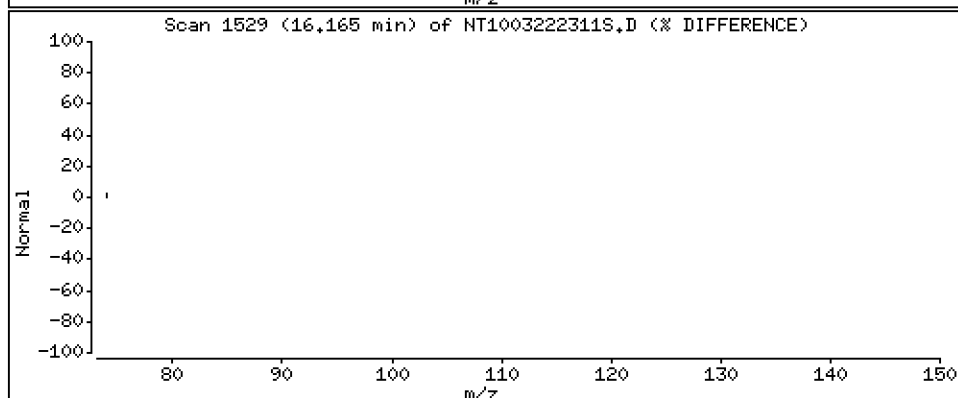
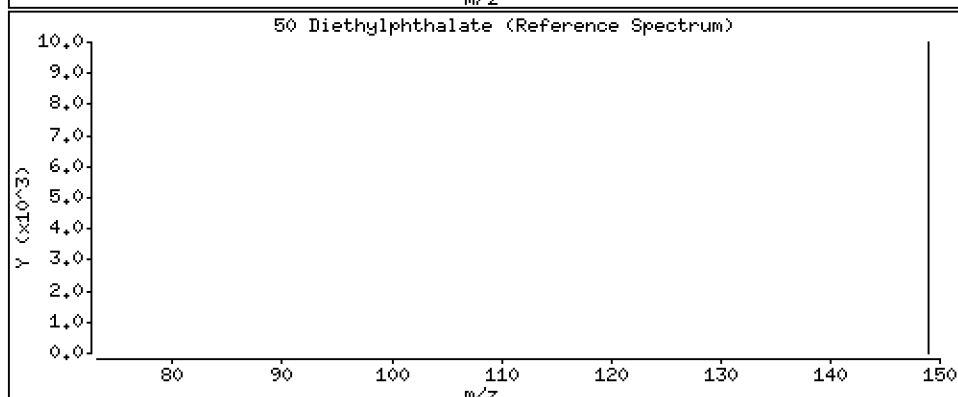
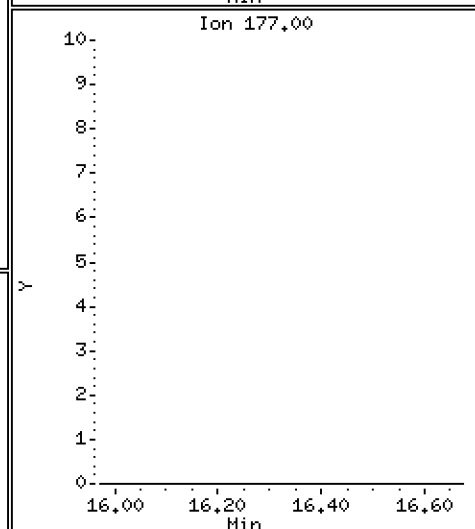
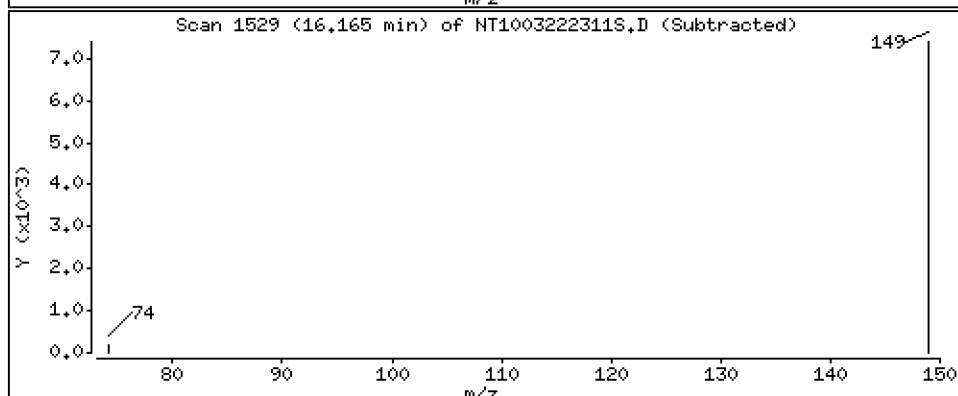
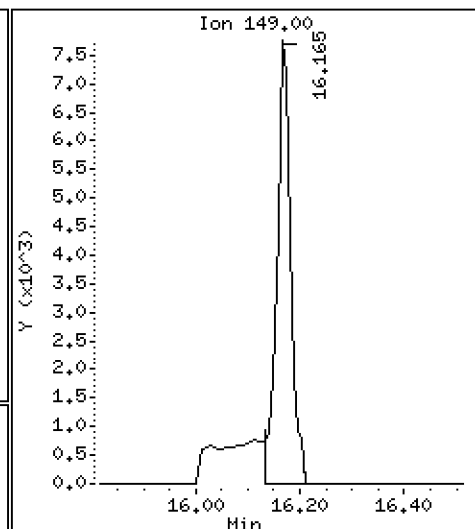
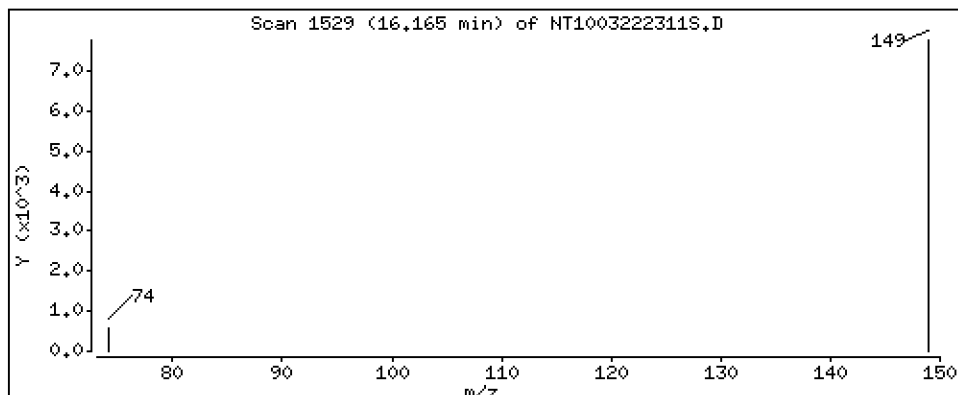
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,1270 ug/L



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02

Volume Injected (uL): 1.0

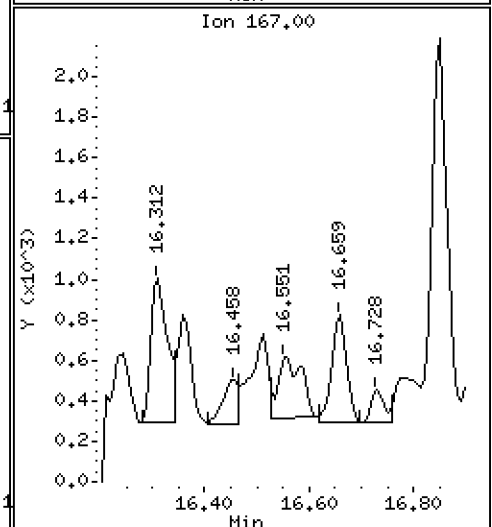
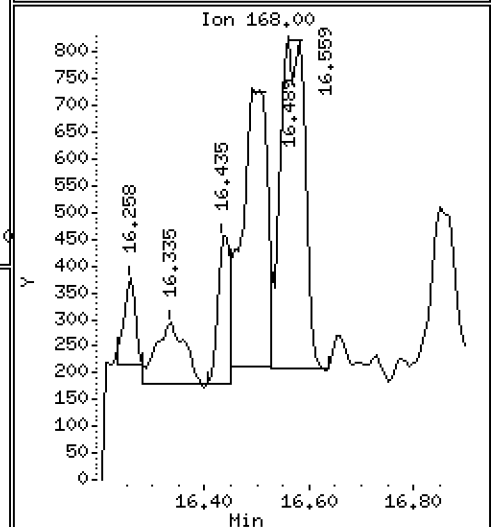
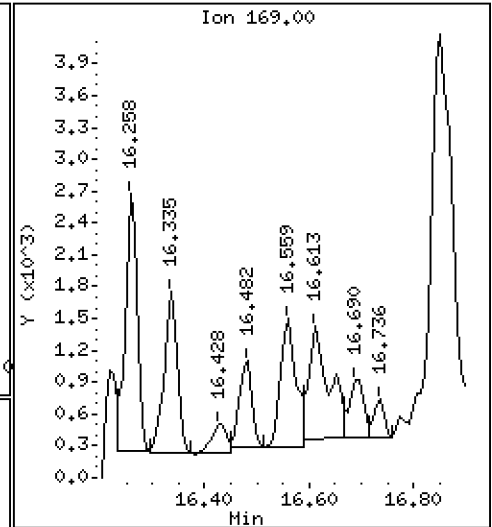
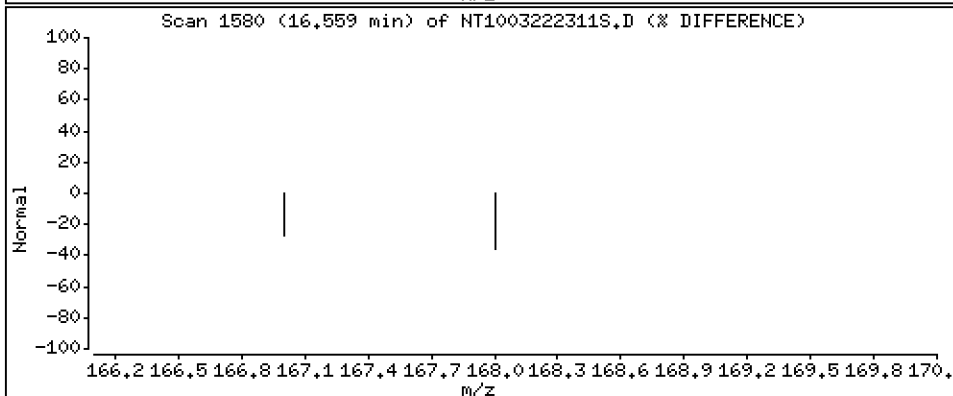
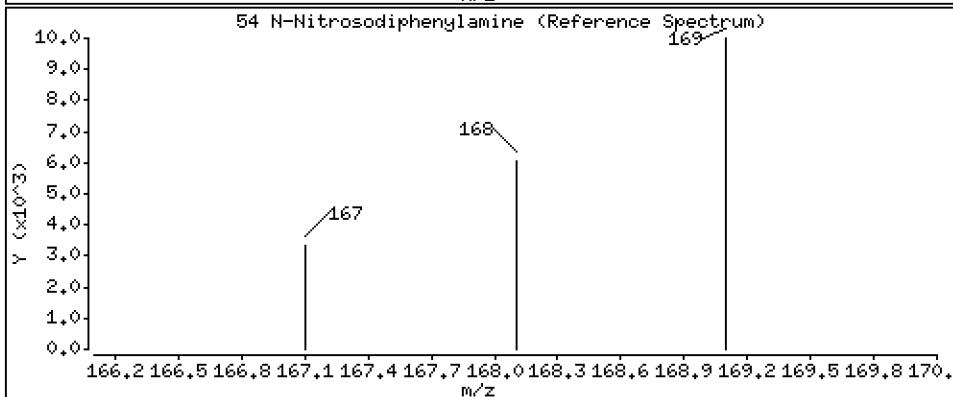
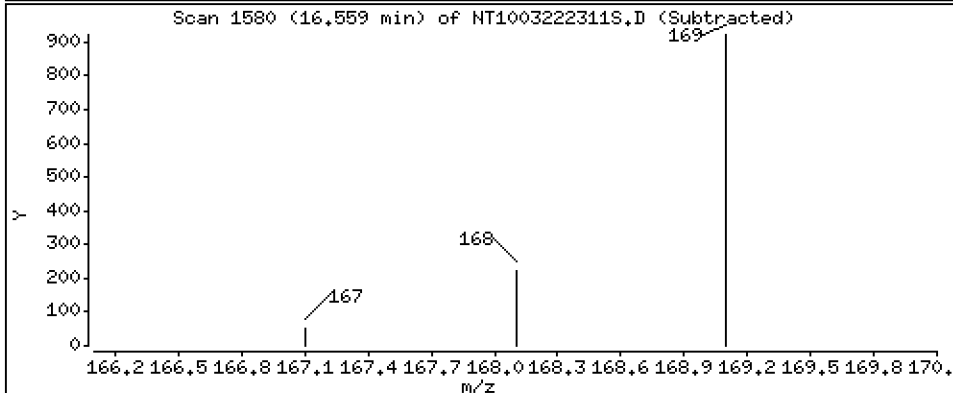
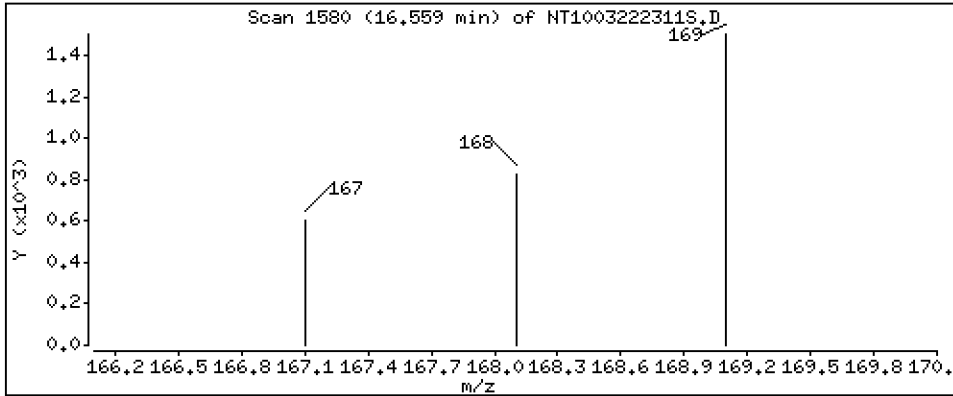
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 0.02580 ug/L



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02

Volume Injected (uL): 1.0

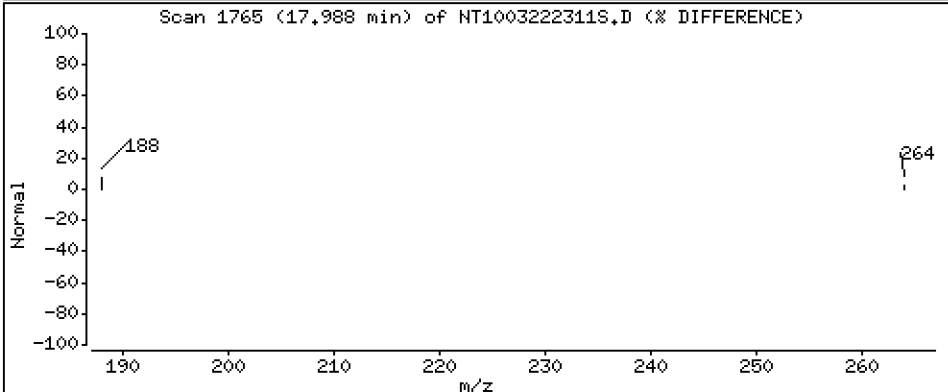
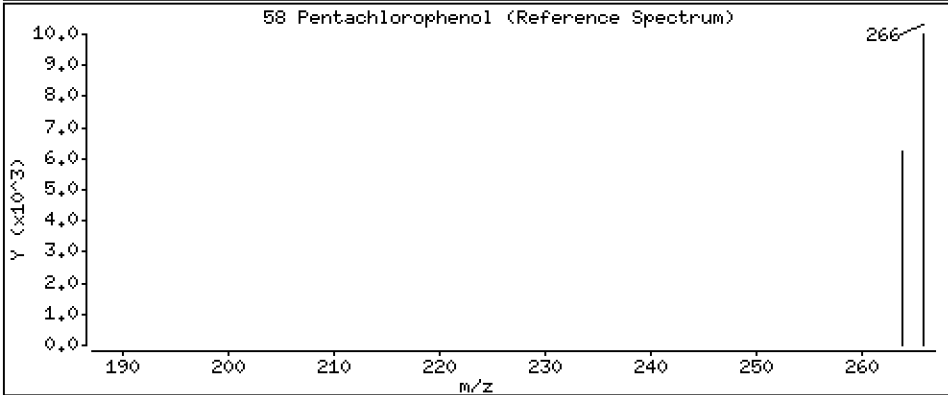
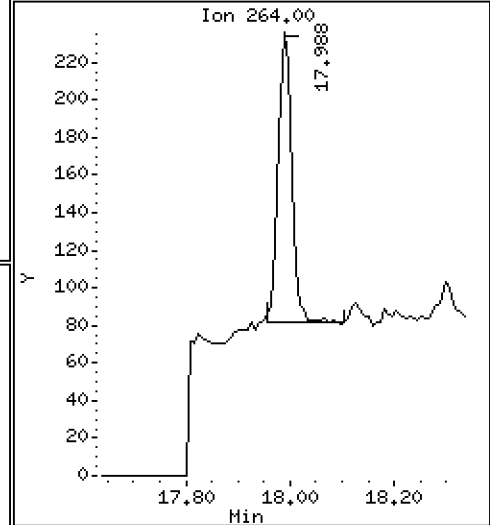
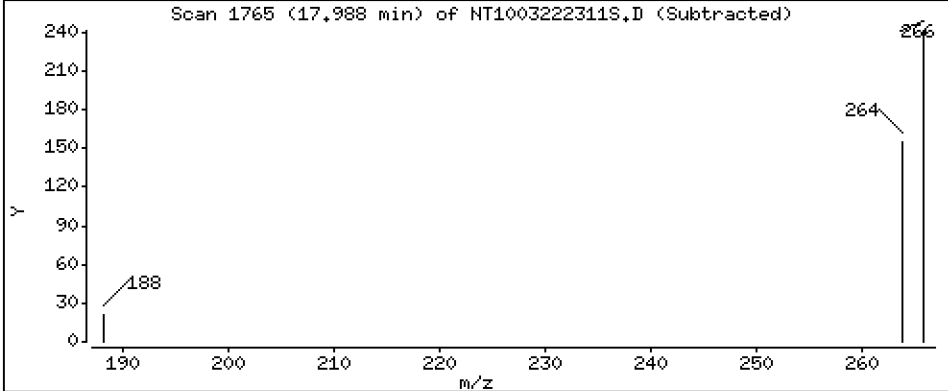
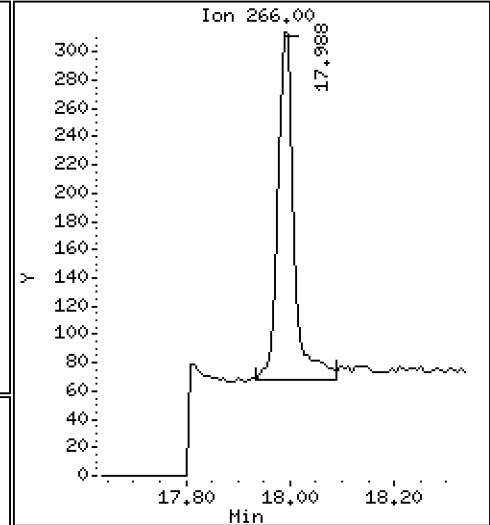
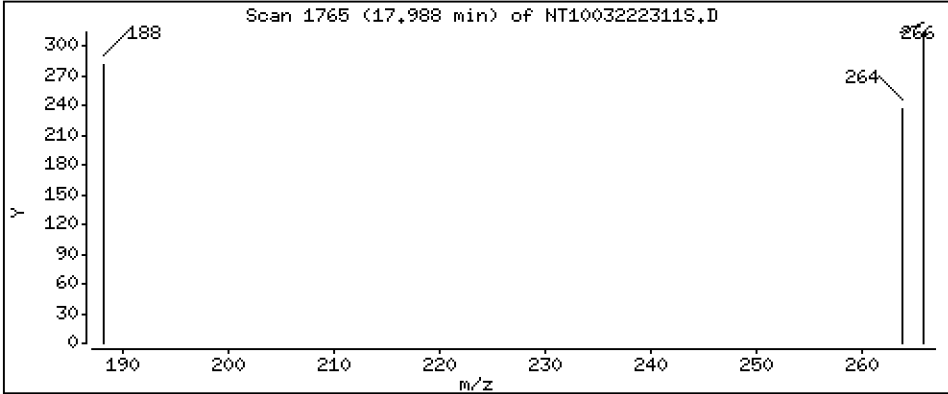
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,02103 ug/L



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02

Volume Injected (uL): 1.0

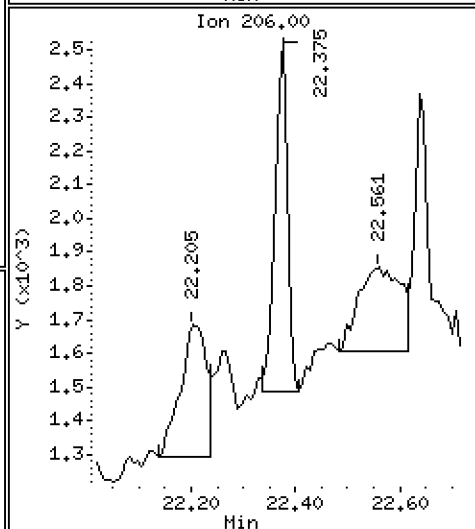
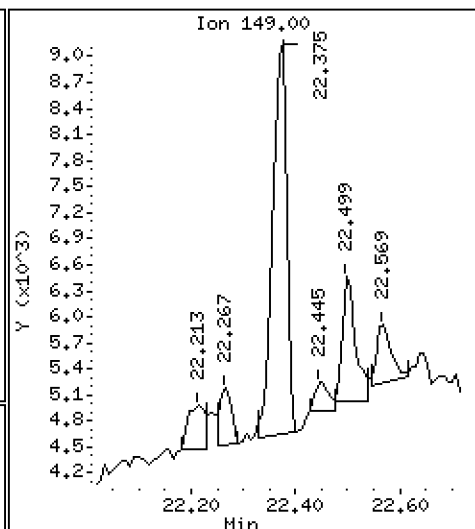
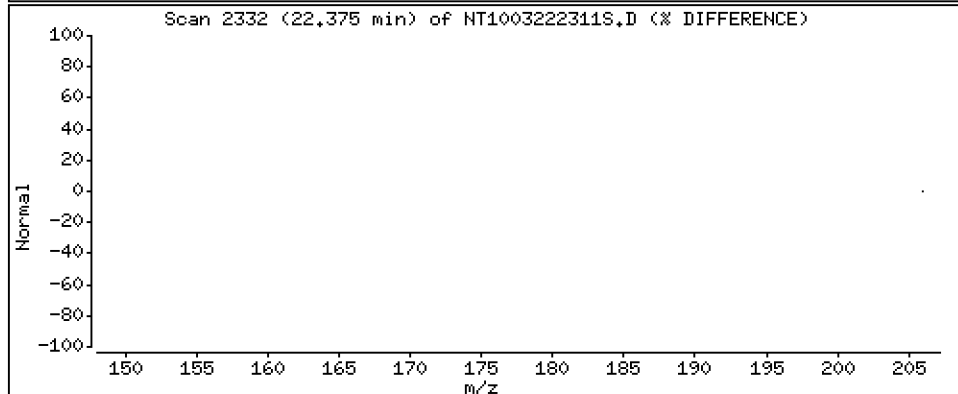
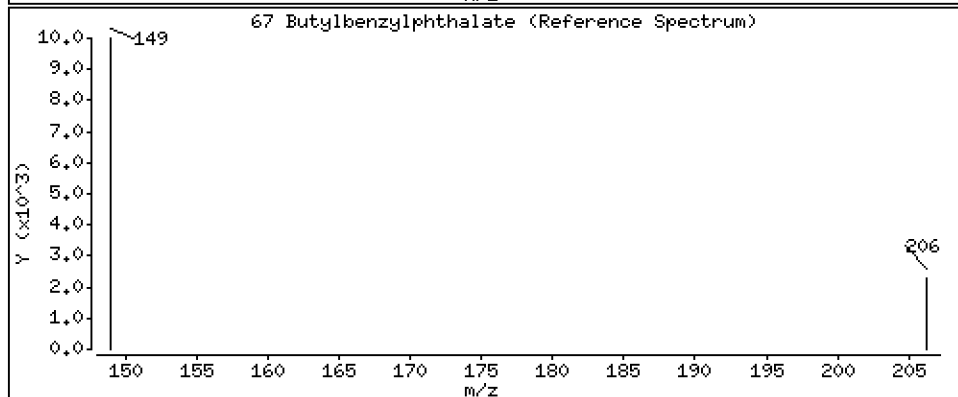
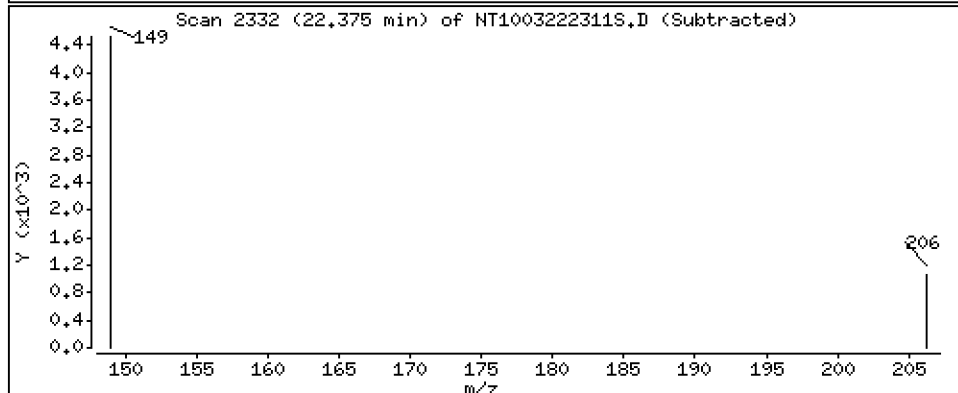
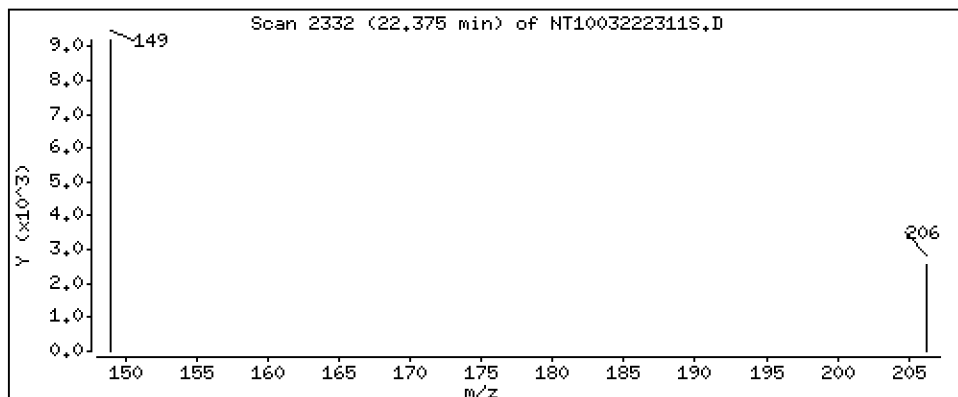
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,09507 ug/L



Date : 22-MAR-2023 23:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-02

Volume Injected (uL): 1.0

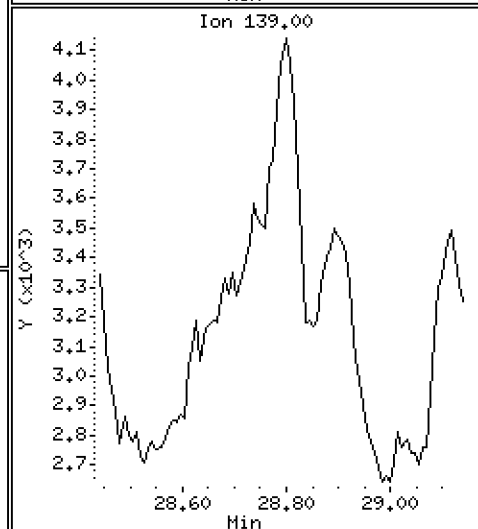
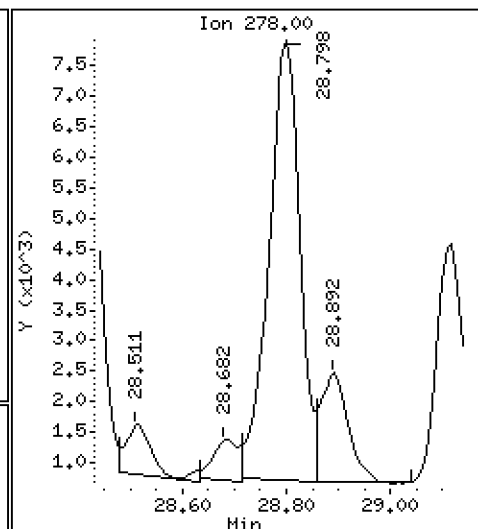
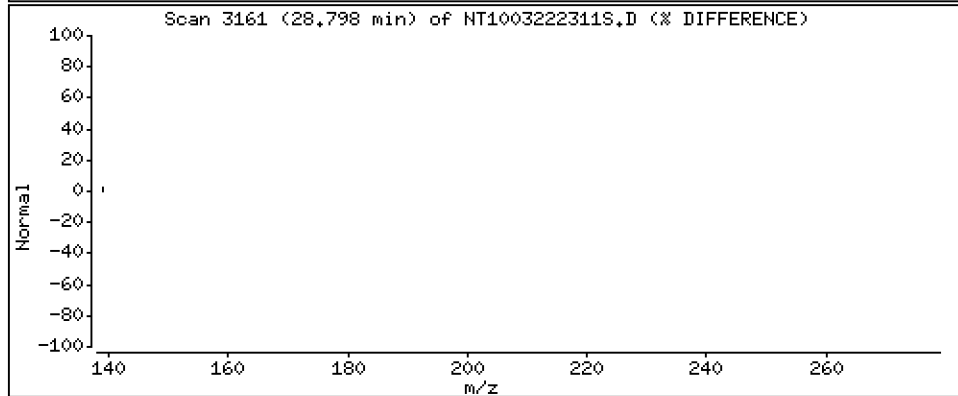
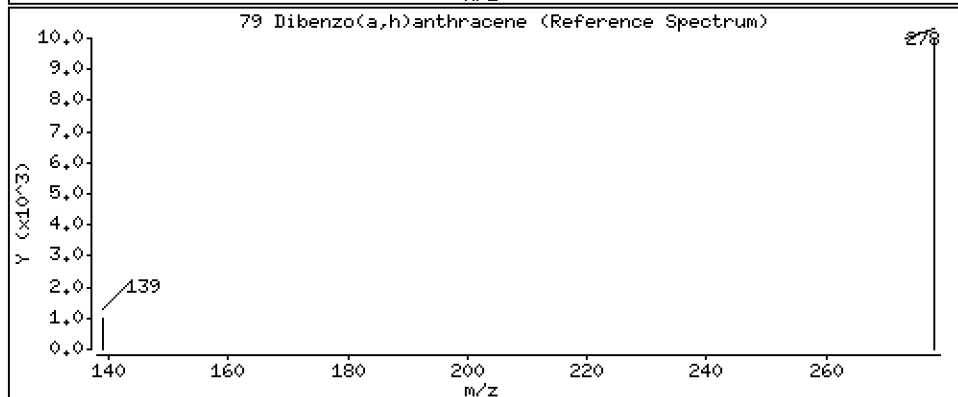
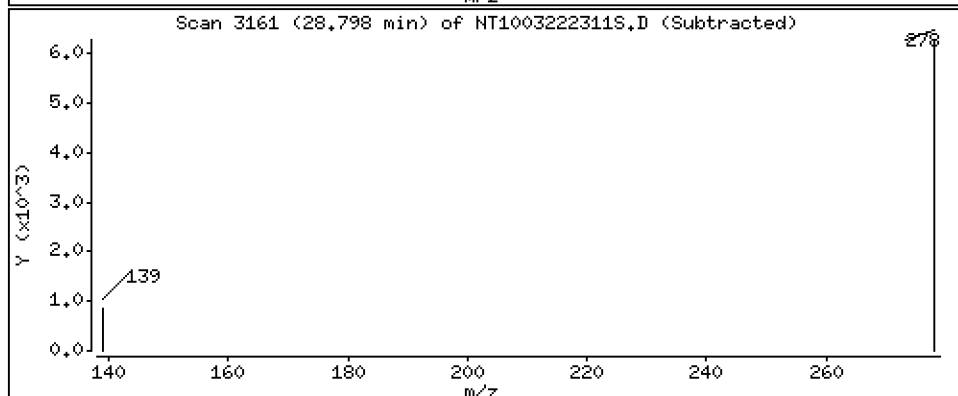
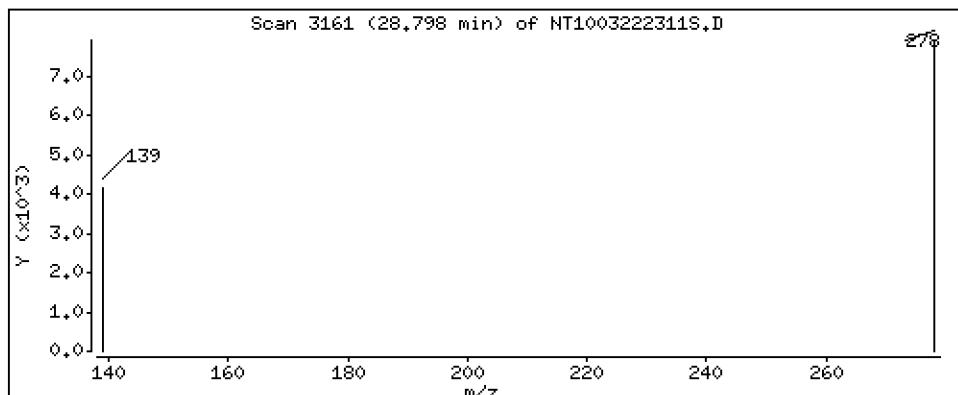
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 0.1218 ug/L





ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222311S.D  
 Lab Smp Id: 23A0179-02  
 Inj Date : 22-MAR-2023 23:27 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : 23A0179-02  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Meth Date : 25-Mar-2023 13:23 yev Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSSDA.sub  
 Target Version: 4.14  
 Processing Host: ORGDATA102

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |             |
|-------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-------------|
|                               |       |     |                        |        |         |          | ON-COLUMN      | FINAL       |
|                               | MASS  |     |                        |        |         |          | (ug/mL)        | ( ug/L)     |
| \$ 1 2-Fluorophenol           | 112   |     | 6.864                  | 6.856  | (0.755) | 339724   | 5.58029        | 5.580 (R)   |
| 3 Phenol                      | 94    |     | 8.479                  | 8.471  | (0.933) | 115133   | 1.37847        | 1.378       |
| 7 1,3-Dichlorobenzene         | 146   |     | Compound Not Detected. |        |         |          |                |             |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.090                  | 9.090  | (1.000) | 200759   | 4.00000        |             |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.113                  | 9.113  | (1.003) | 1048     | 0.01389        | 0.01389 (M) |
| 11 Benzyl alcohol             | 79    |     | 9.361                  | 9.361  | (1.030) | 6859     | 0.14165        | 0.1417 (M)  |
| 12 1,2-Dichlorobenzene        | 146   |     | 9.470                  | 9.470  | (1.042) | 605      | 0.00815        | 0.008154    |
| 13 2-Methylphenol             | 108   |     | 9.594                  | 9.586  | (1.055) | 739      | 0.01277        | 0.01277     |
| 15 4-Methylphenol             | 108   |     | 9.858                  | 9.858  | (1.085) | 9689     | 0.16111        | 0.1611      |
| 16 N-Nitroso-di-n-propylamine | 70    |     | Compound Not Detected. |        |         |          |                |             |
| 22 2,4-Dimethylphenol         | 107   |     | Compound Not Detected. |        |         |          |                |             |
| 24 Benzoic acid               | 105   |     | 10.999                 | 11.025 | (0.950) | 13107    | 0.38440        | 0.3844      |
| 26 1,2,4-Trichlorobenzene     | 180   |     | Compound Not Detected. |        |         |          |                |             |
| * 27 Naphthalene-d8           | 136   |     | 11.577                 | 11.569 | (1.000) | 720656   | 4.00000        |             |
| 30 Hexachlorobutadiene        | 225   |     | 11.979                 | 11.979 | (1.035) | 101      | 0.00265        | 0.002651    |
| 39 Dimethylphthalate          | 163   |     | 14.703                 | 14.703 | (0.967) | 4571     | 0.04212        | 0.04212 (M) |
| * 42 Acenaphthene-d10         | 162   |     | 15.198                 | 15.198 | (1.000) | 343861   | 4.00000        |             |
| 50 Diethylphthalate           | 149   |     | 16.165                 | 16.165 | (1.064) | 14272    | 0.12696        | 0.1270      |
| 54 N-Nitrosodiphenylamine     | 169   |     | 16.558                 | 16.550 | (0.907) | 2527     | 0.02580        | 0.02580     |
| 57 Hexachlorobenzene          | 284   |     | Compound Not Detected. |        |         |          |                |             |

| Compounds                 | QUANT SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|
|                           |           |                        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>( ug/L) |
| 58 Pentachlorophenol      | 266       | 17.987                 | 17.987 | (0.985) | 509      | 0.02103              | 0.02103 (M)      |
| * 59 Phenanthrene-d10     | 188       | 18.258                 | 18.250 | (1.000) | 729888   | 4.00000              |                  |
| \$ 66 Terphenyl-d14       | 244       | 21.430                 | 21.422 | (0.918) | 565702   | 5.34108              | 5.341 (R)        |
| 67 Butylbenzylphthalate   | 149       | 22.375                 | 22.367 | (0.958) | 8129     | 0.09507              | 0.09507          |
| * 69 Chrysene-d12         | 240       | 23.350                 | 23.343 | (1.000) | 650043   | 4.00000              |                  |
| * 77 Perylene-d12         | 264       | 26.045                 | 26.029 | (1.000) | 755158   | 4.00000              |                  |
| 79 Dibenzo(a,h)anthracene | 278       | 28.798                 | 28.790 | (1.106) | 30178    | 0.12179              | 0.1218           |
| 90 N-Nitrosodimethylamine | 74        | Compound Not Detected. |        |         |          |                      |                  |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT1003222311S.D  
 Lab Smp Id: 23A0179-02  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Misc Info:

Calibration Date: 22-MAR-2023  
 Calibration Time: 18:20  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 135191   | 67596      | 270382  | 200759 | 48.50 |
| 27 Naphthalene-d8   | 487226   | 243613     | 974452  | 720656 | 47.91 |
| 42 Acenaphthene-d10 | 246588   | 123294     | 493176  | 343861 | 39.45 |
| 59 Phenanthrene-d10 | 479352   | 239676     | 958704  | 729888 | 52.27 |
| 69 Chrysene-d12     | 439791   | 219896     | 879582  | 650043 | 47.81 |
| 77 Perylene-d12     | 505700   | 252850     | 1011400 | 755158 | 49.33 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.09     | 8.59     | 9.59  | 9.09   | 0.00  |
| 27 Naphthalene-d8   | 11.57    | 11.07    | 12.07 | 11.58  | 0.07  |
| 42 Acenaphthene-d10 | 15.20    | 14.70    | 15.70 | 15.20  | 0.00  |
| 59 Phenanthrene-d10 | 18.25    | 17.75    | 18.75 | 18.26  | 0.04  |
| 69 Chrysene-d12     | 23.34    | 22.84    | 23.84 | 23.35  | 0.03  |
| 77 Perylene-d12     | 26.03    | 25.53    | 26.53 | 26.05  | 0.06  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222311S.D

Lab ID: 23A0179-02

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 22-MAR-2023 23:27

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

---

NONE

RRT check based on Ccal File: SIM.b/NT1003222303S.D

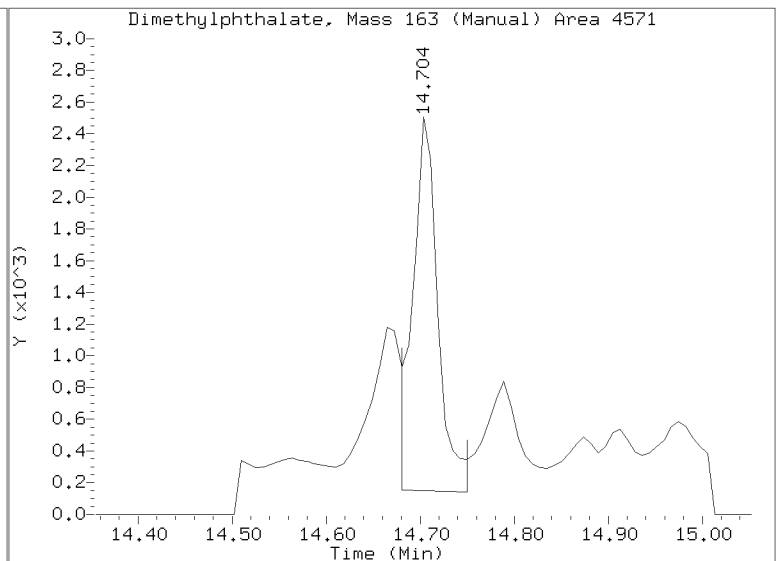
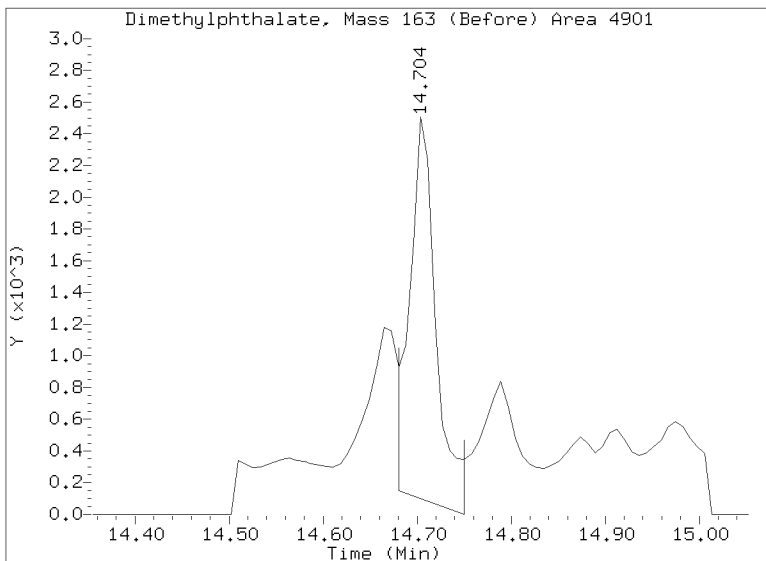
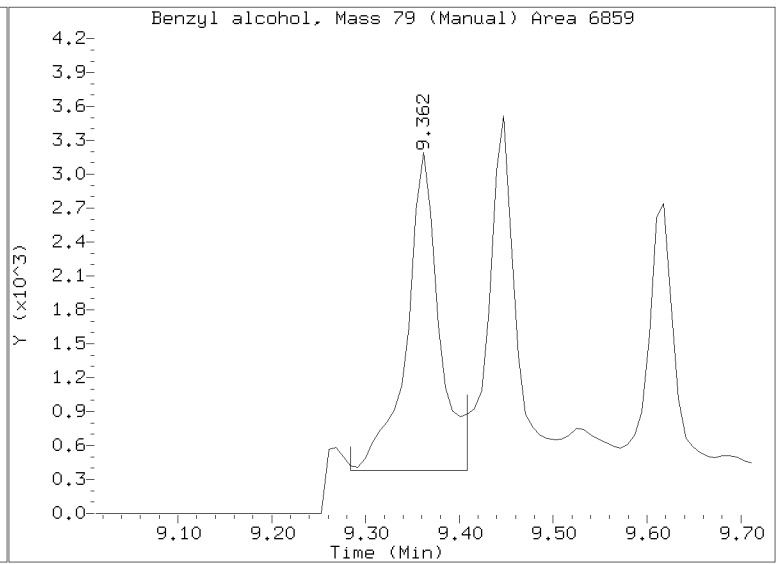
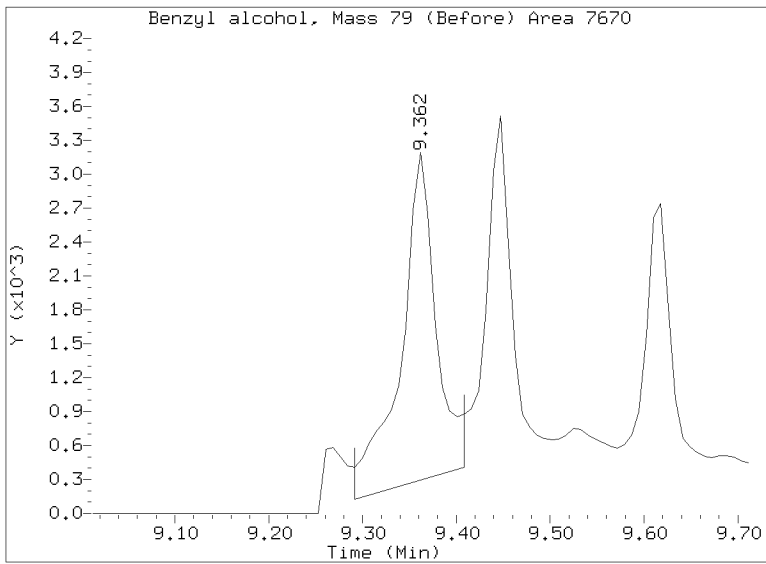
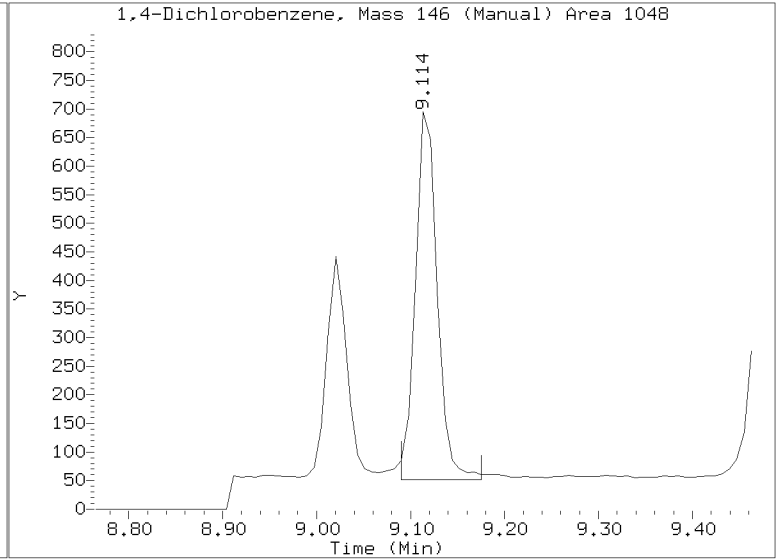
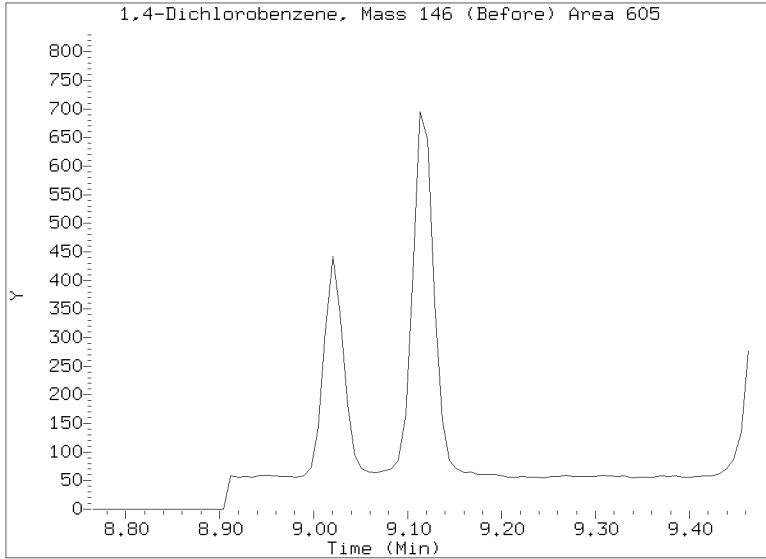
On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

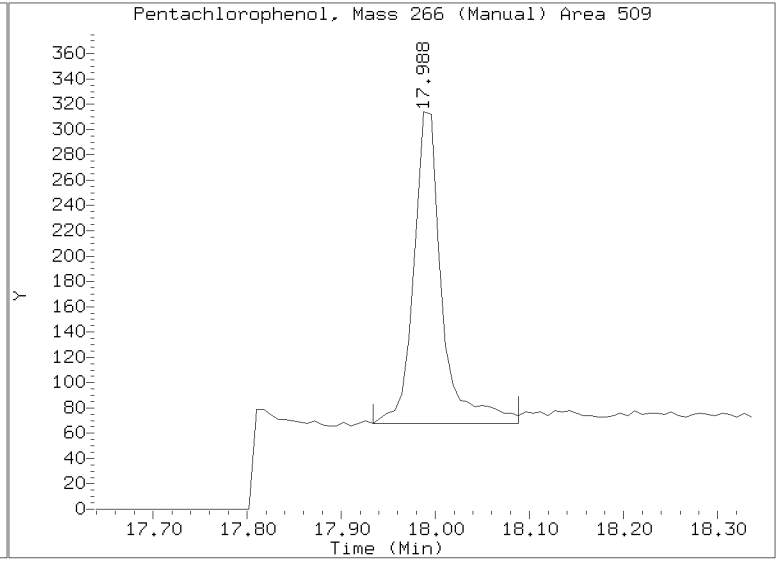
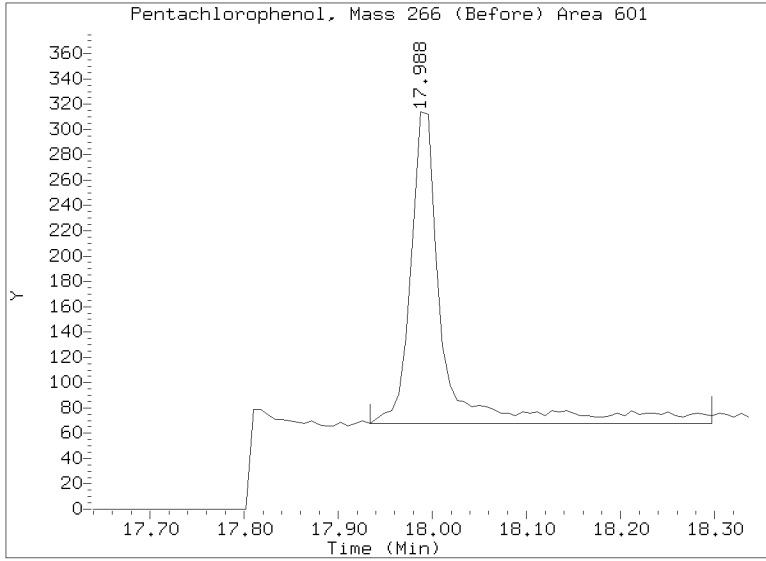
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222311S.D  
Injection Date: 22-MAR-2023 23:27  
Lab ID:23A0179-02 Client ID:  
Report Date: 03/25/2023 13:23



# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222311S.D  
Injection Date: 22-MAR-2023 23:27  
Lab ID:23A0179-02 Client ID:  
Report Date: 03/25/2023 13:23





Form I  
ORGANIC ANALYSIS DATA SHEET  
EPA 8270E-SIM  
SIM SVOC Organics (Dual scan list)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-03RE1 A

SDG: 23A0179

Sampled: 01/10/23 09:04

Prepared: 03/17/23 14:20

File ID: NT1003222312S.D

% Solids: 58.58

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 00:05

Batch: BLC0442

Sequence: SLC0407

Initial/Final: 17.77 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00049

Cleanups: GPC

| CAS NO.  | COMPOUND               | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|------------------------|----------|----------------------|---|------|------|
| 106-46-7 | 1,4-Dichlorobenzene    | 1        | 1.1                  | J | 0.6  | 4.8  |
| 95-50-1  | 1,2-Dichlorobenzene    | 1        | 4.8                  | U | 0.7  | 4.8  |
| 100-51-6 | Benzyl Alcohol         | 1        | 28.4                 |   | 2.4  | 19.2 |
| 65-85-0  | Benzoic acid           | 1        | 81.0                 | J | 12.9 | 96.1 |
| 105-67-9 | 2,4-Dimethylphenol     | 1        | 19.2                 | U | 2.1  | 19.2 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1        | 4.8                  | U | 2.6  | 4.8  |
| 86-30-6  | N-Nitrosodiphenylamine | 1        | 4.8                  | U | 1.3  | 4.8  |
| 87-86-5  | Pentachlorophenol      | 1        | 2.5                  | J | 2.0  | 19.2 |

| SURROGATES      | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|-----------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol  | 720.48                | 552                   | 76.6  | 27 - 120  |   |
| p-Terphenyl-d14 | 480.32                | 487                   | 101   | 37 - 120  |   |

Data File: \\target\share\chem3\nt10.1\20230322.16\SIH.6\NT1003222312S.D

Date: 23-MAR-2023 00:05

Client ID:

Sample Info: 23A0179-03

Volume Injected (uL): 1.0

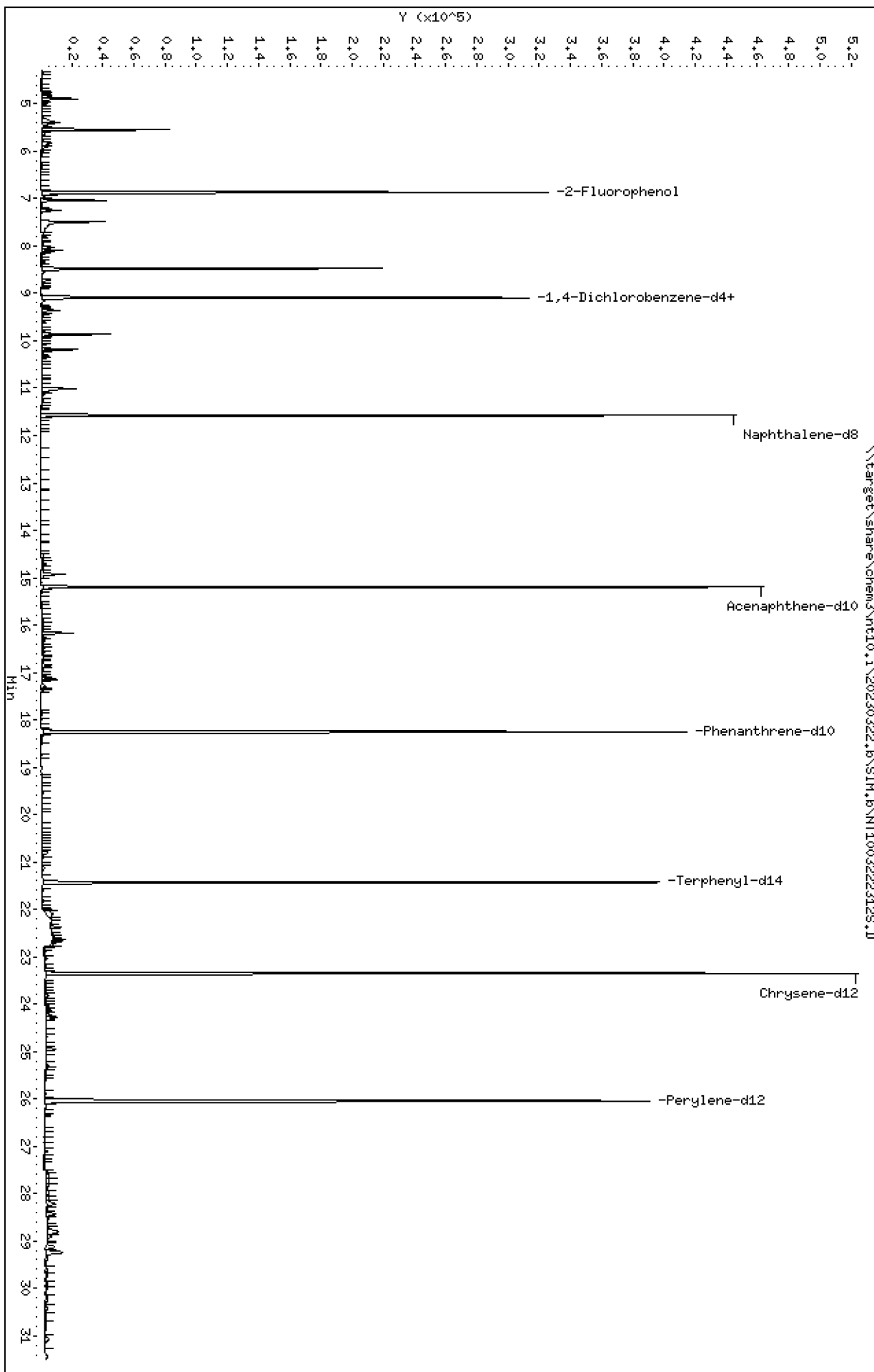
Column phase: ZB-5msi

Instrument: nt10.1

Operator: JGR

Column diameter: 0.25

Page 1





Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03

Volume Injected (uL): 1.0

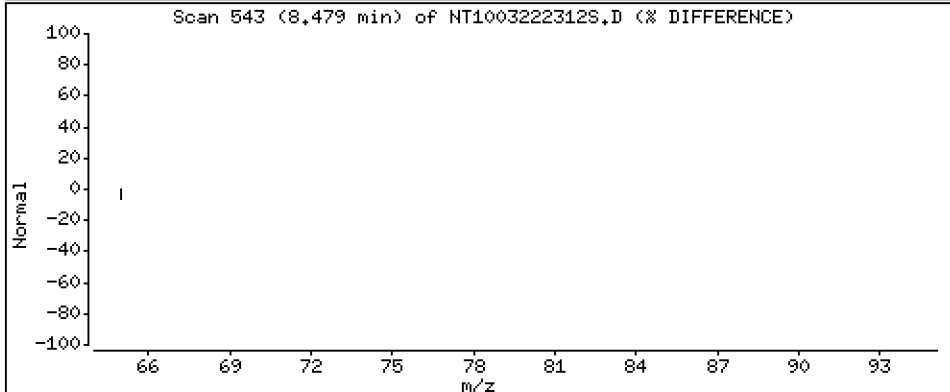
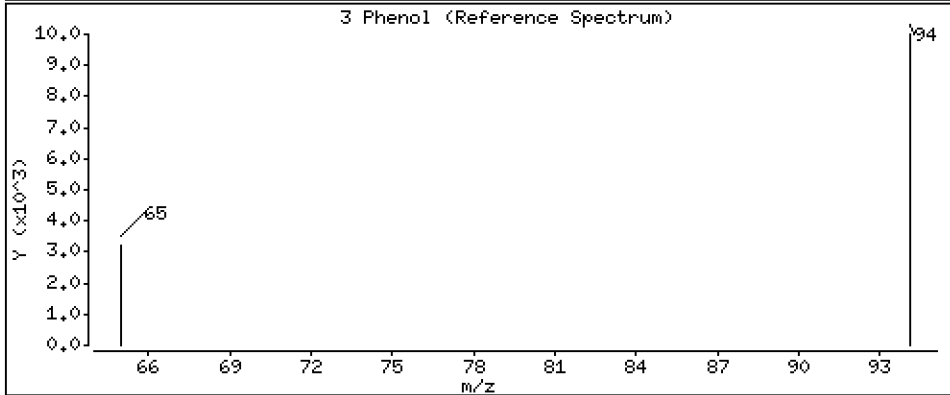
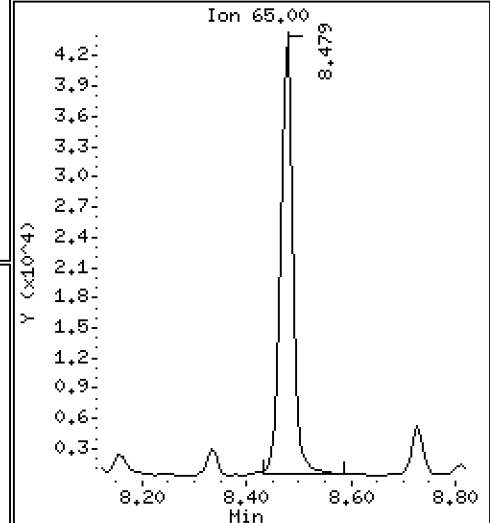
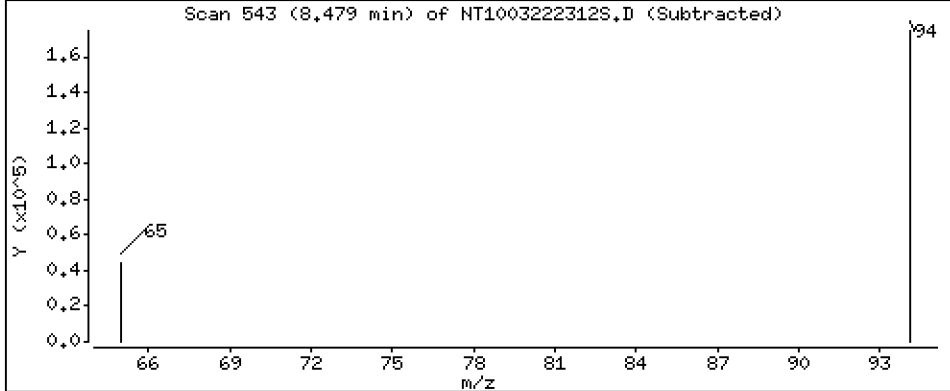
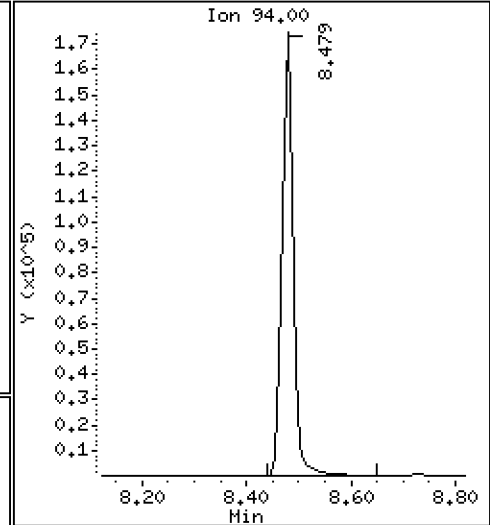
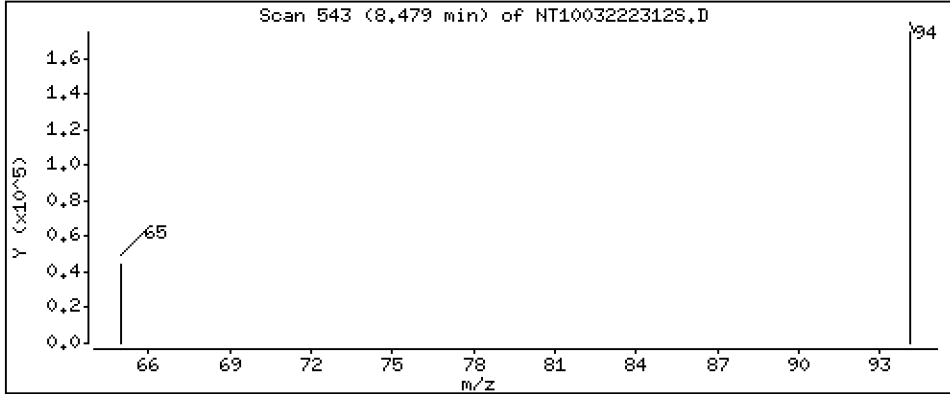
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 3,132 ug/L



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03

Volume Injected (uL): 1.0

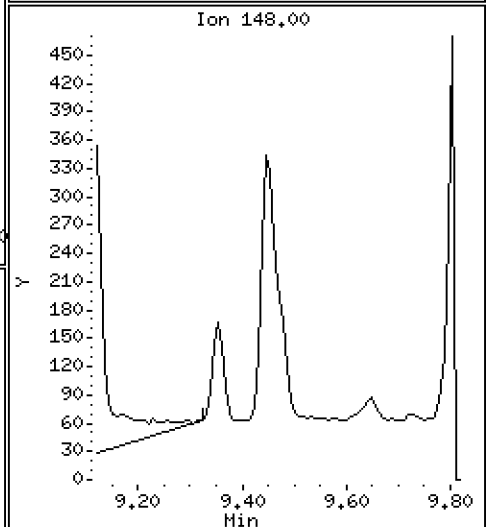
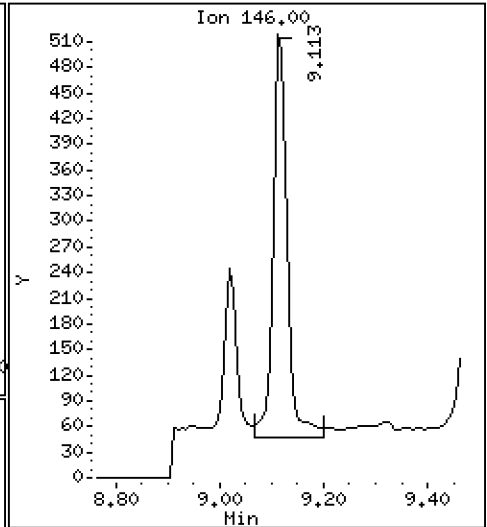
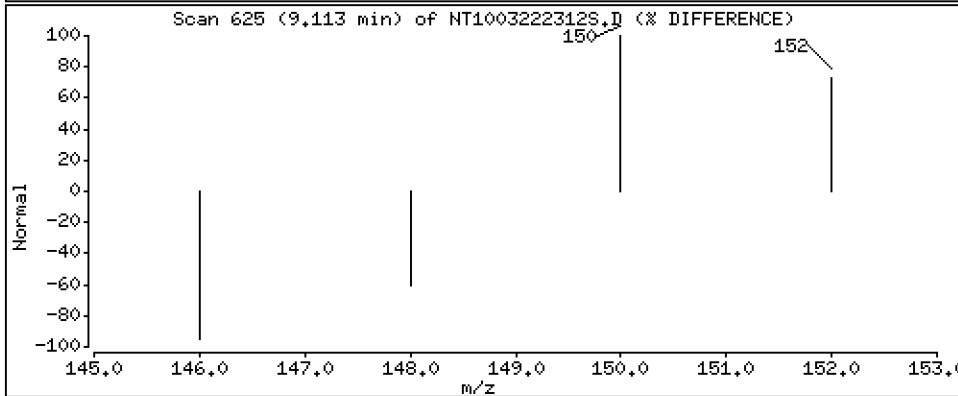
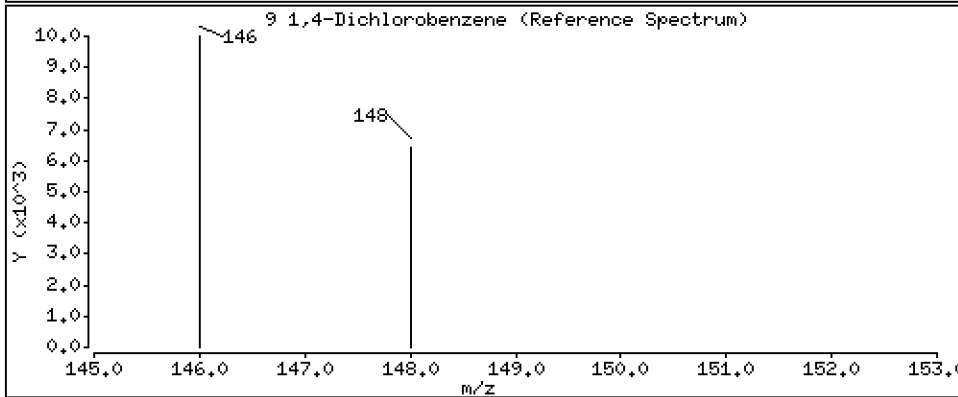
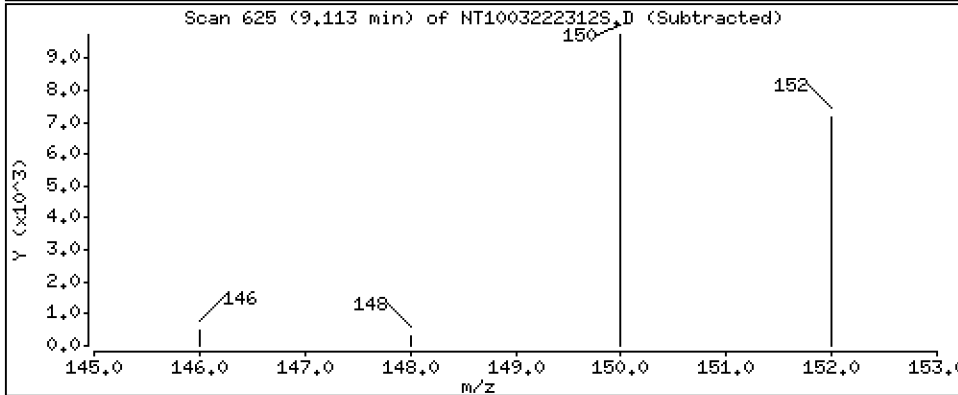
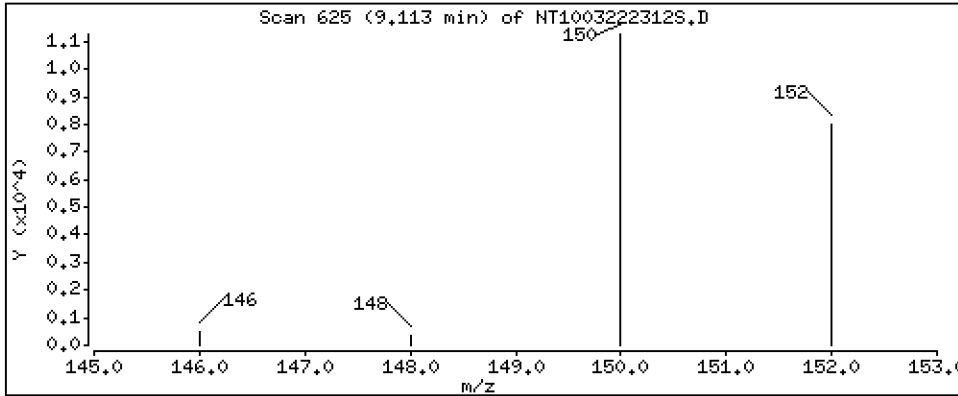
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,01160 ug/L



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03

Volume Injected (uL): 1.0

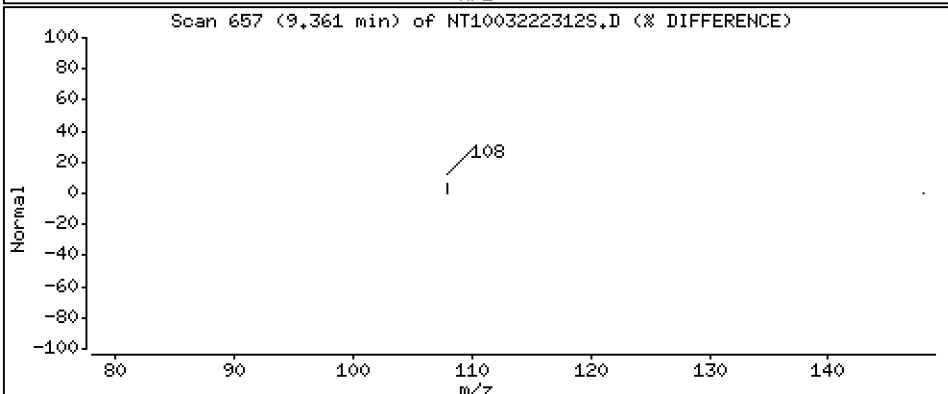
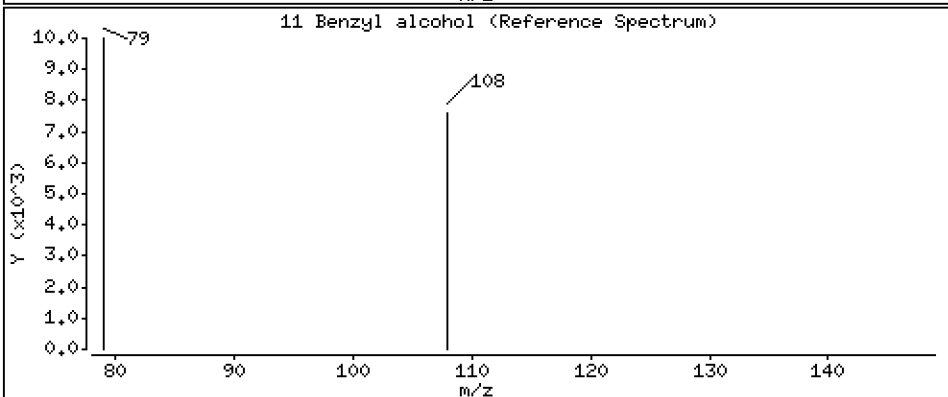
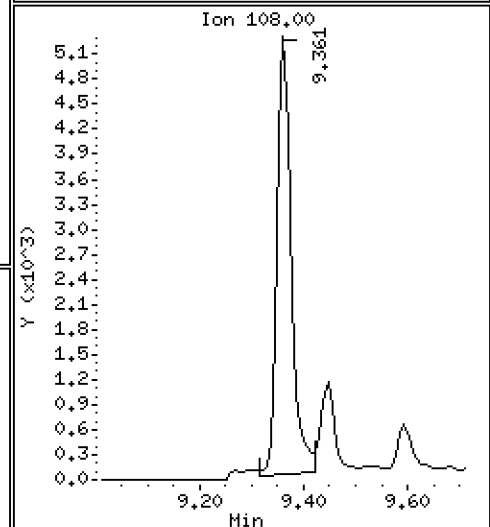
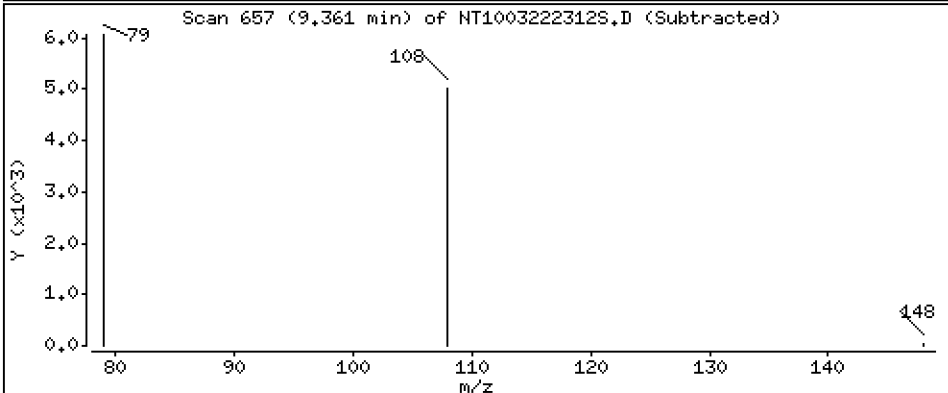
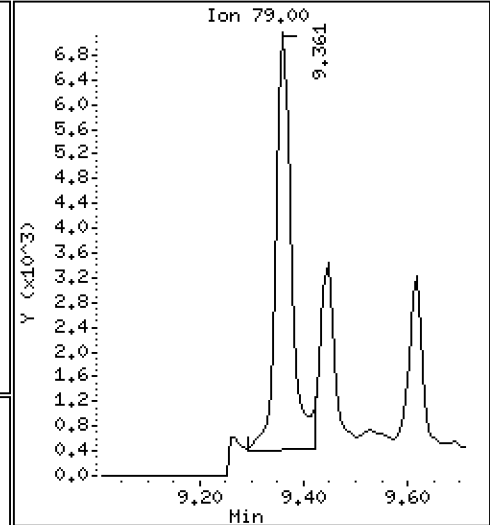
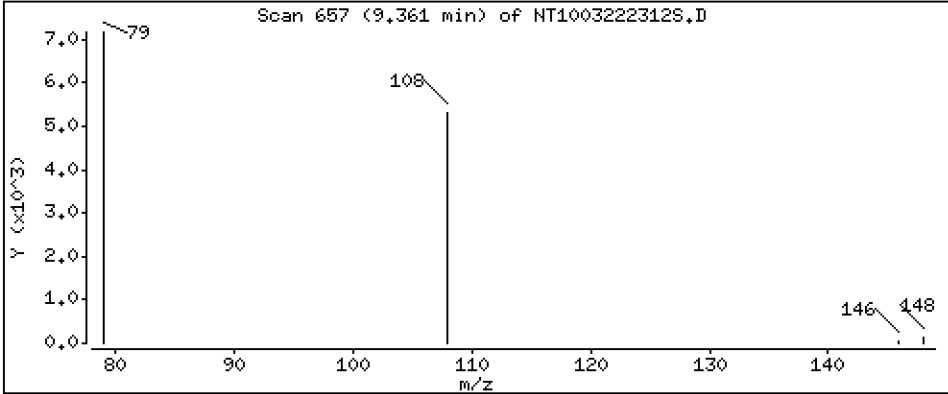
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.2955 ug/L



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03

Volume Injected (uL): 1.0

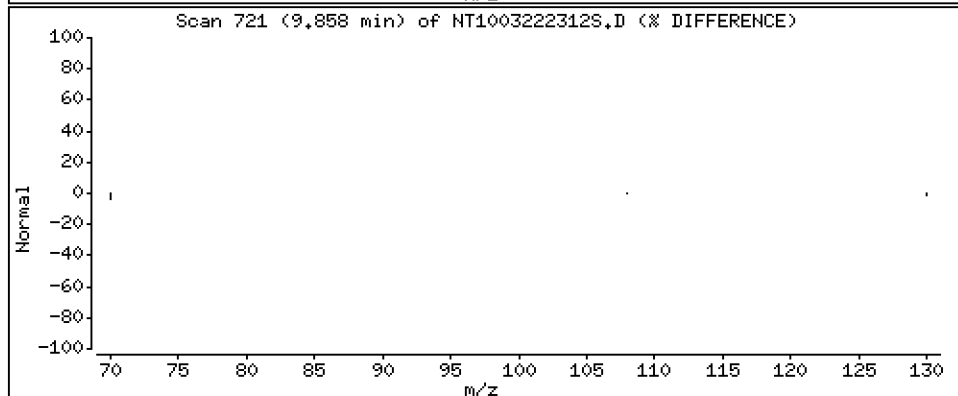
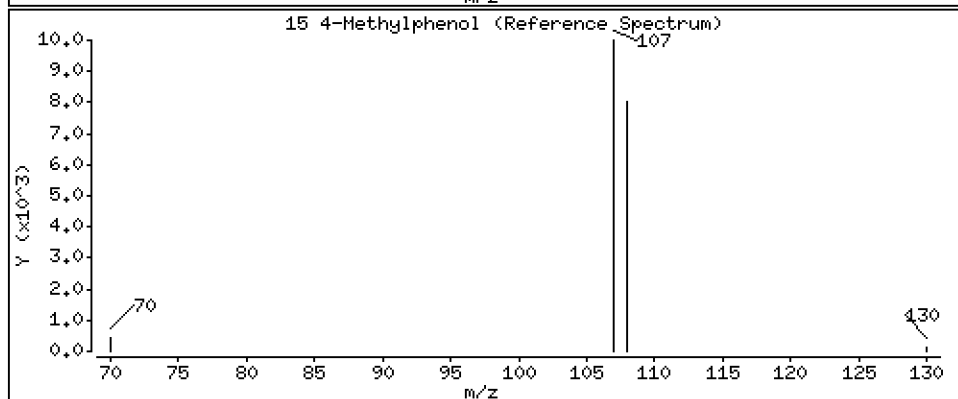
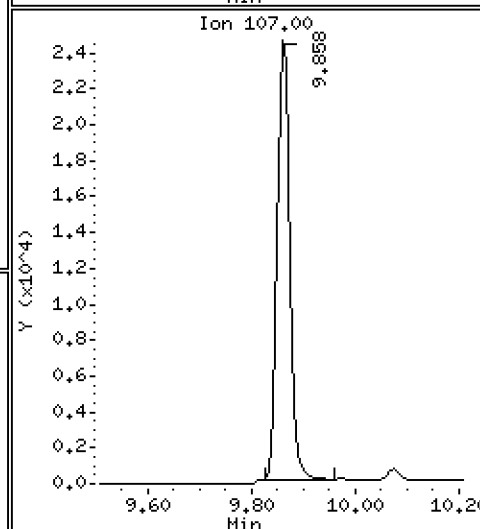
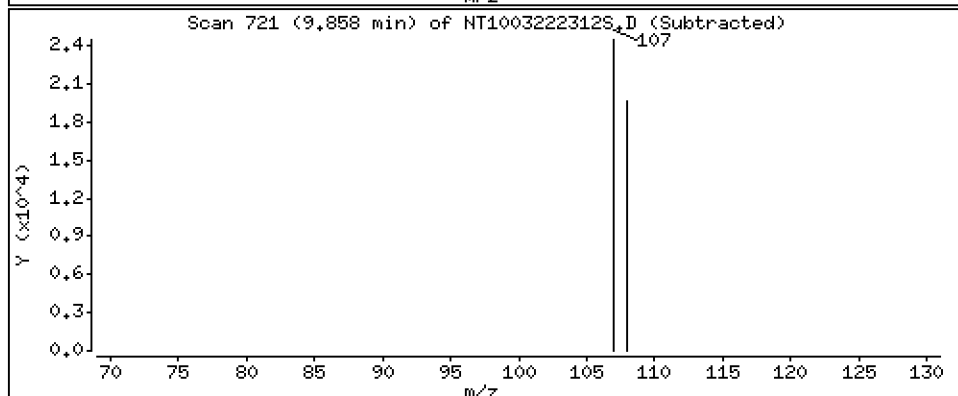
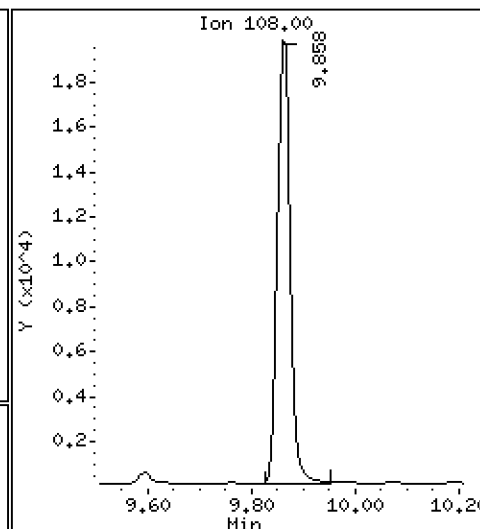
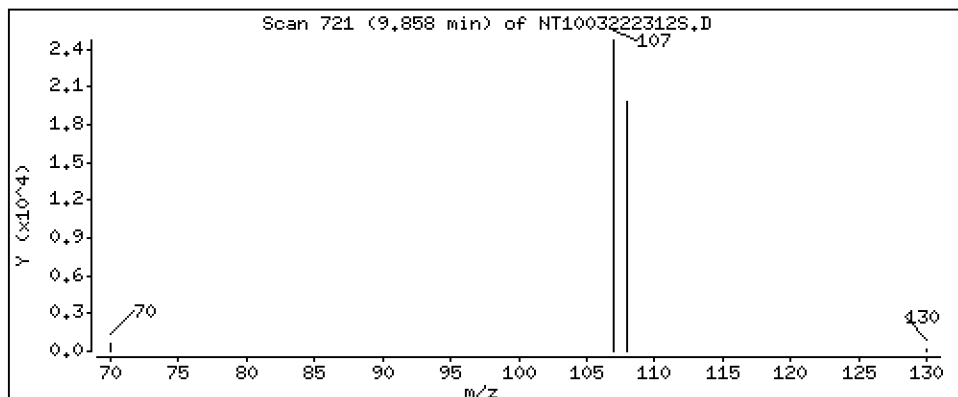
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,5579 ug/L



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03

Volume Injected (uL): 1.0

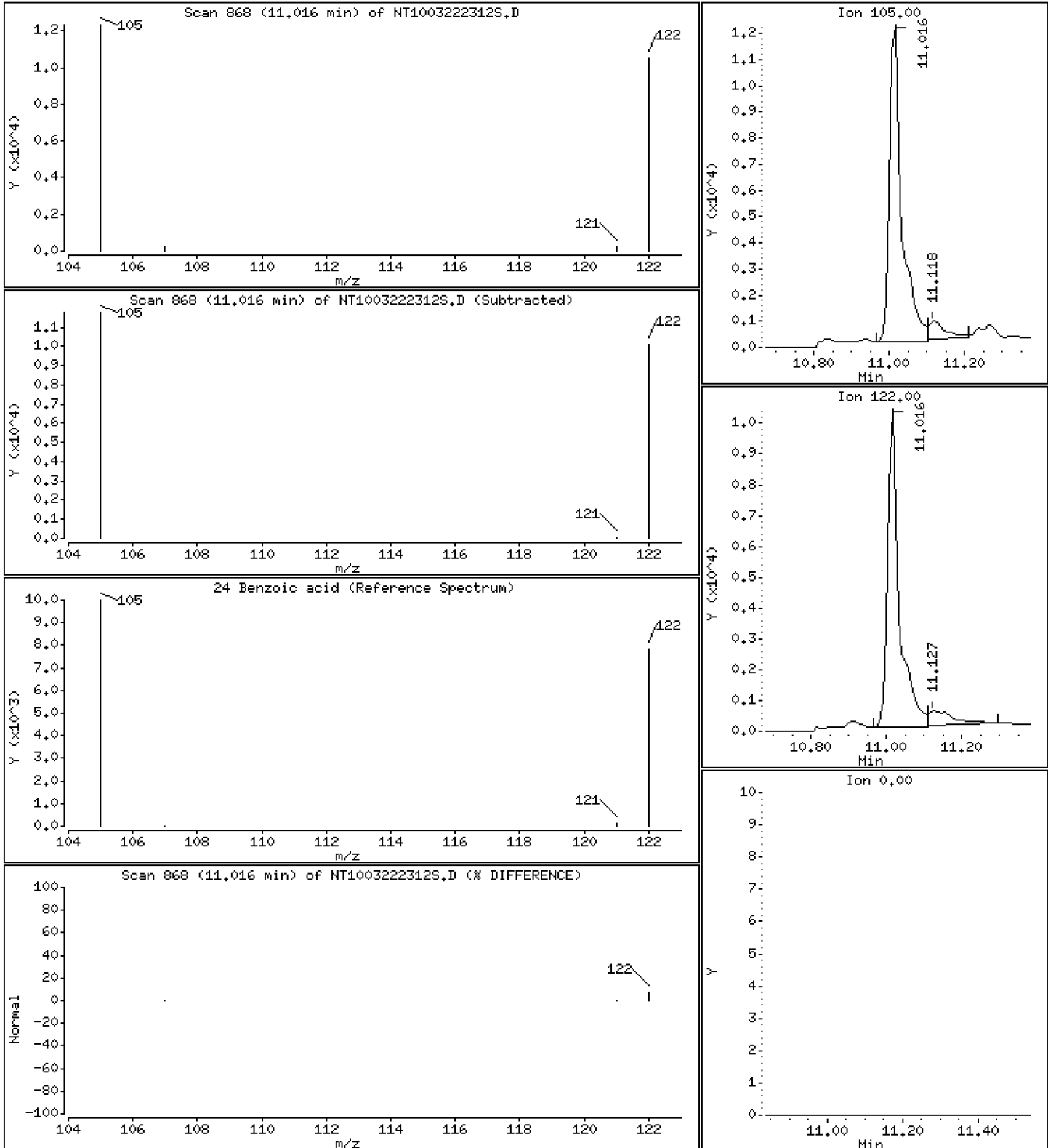
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,8429 ug/L



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03

Volume Injected (uL): 1.0

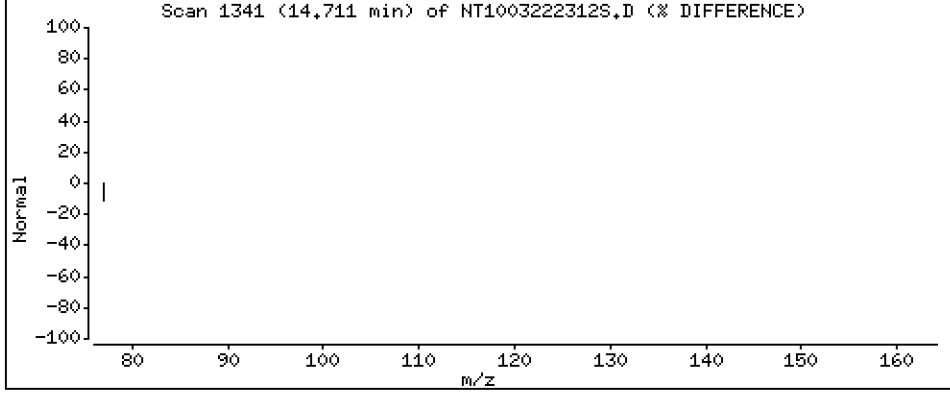
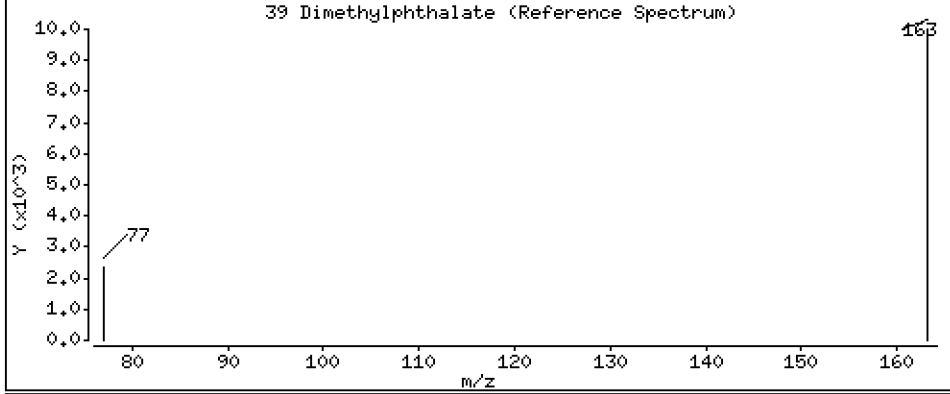
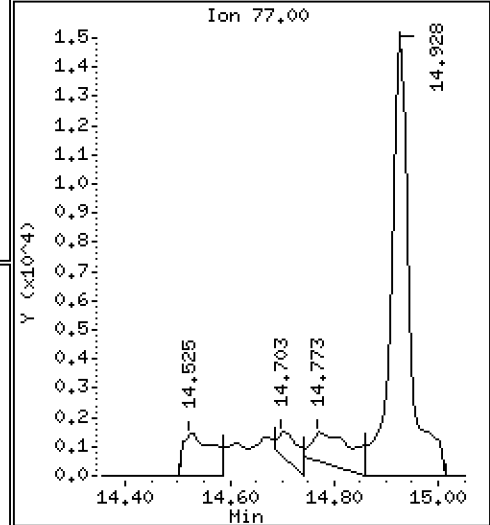
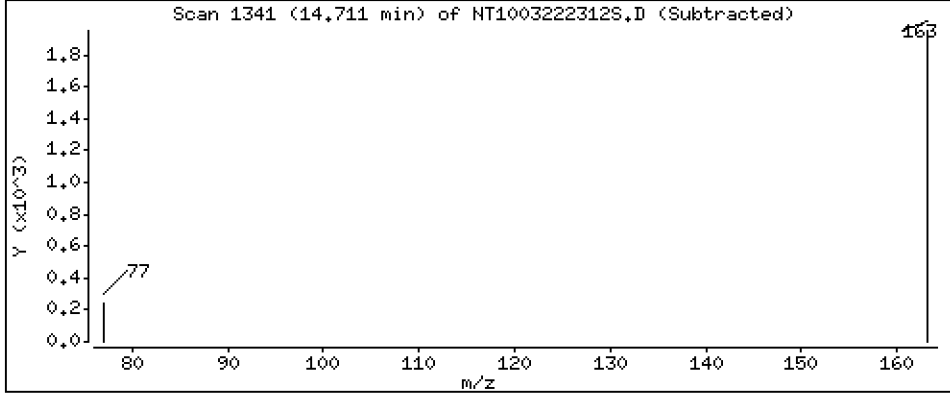
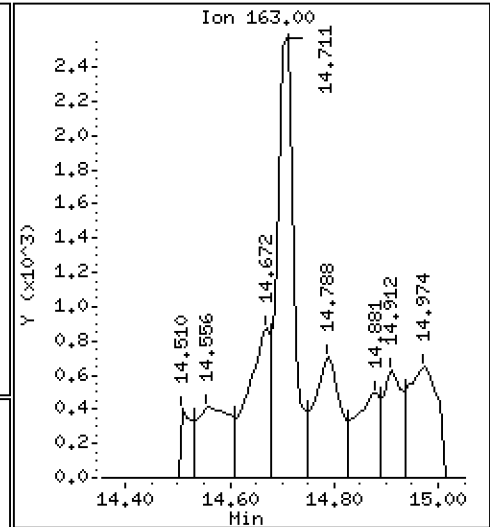
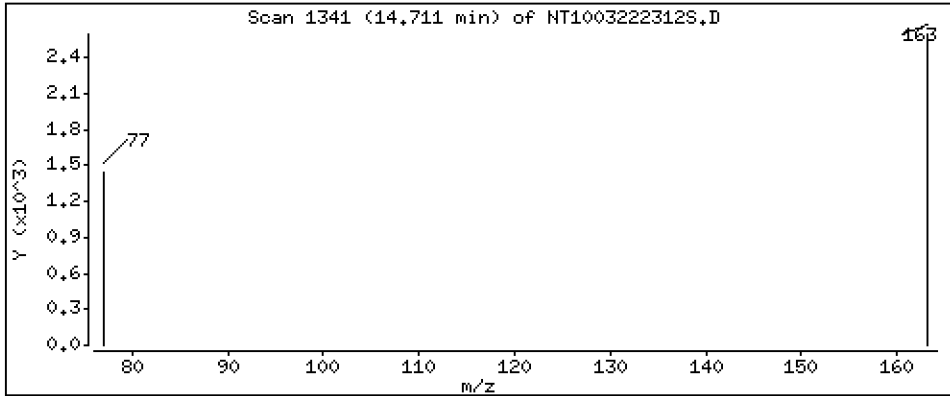
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,05365 ug/L



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03

Volume Injected (uL): 1.0

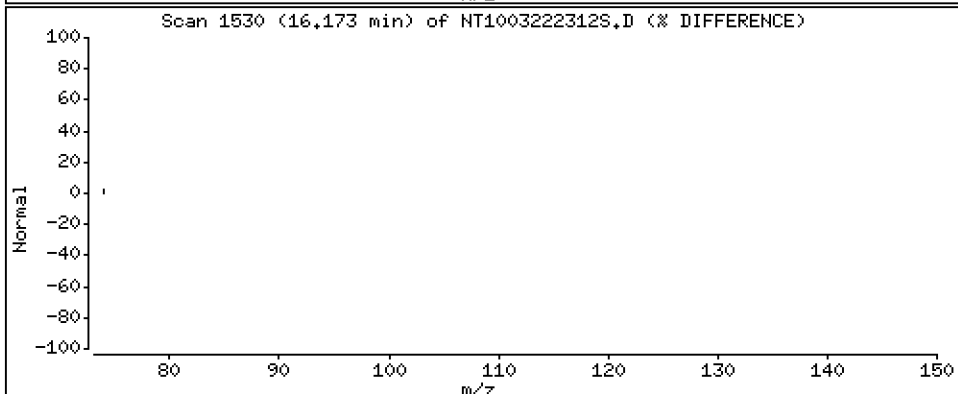
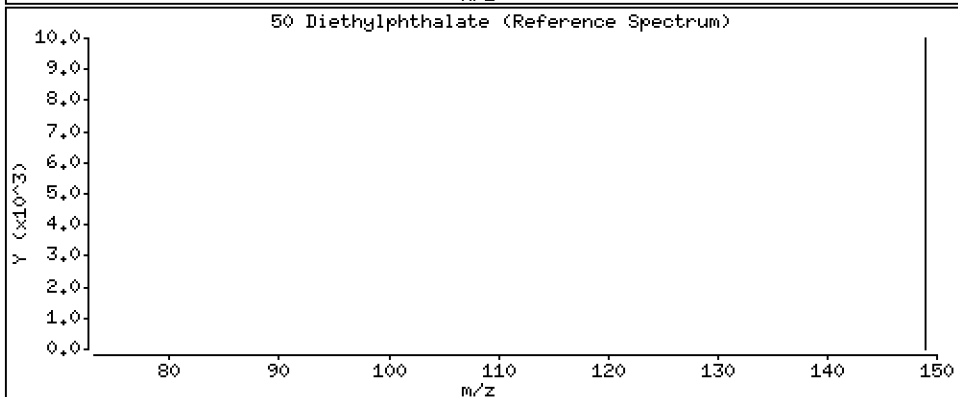
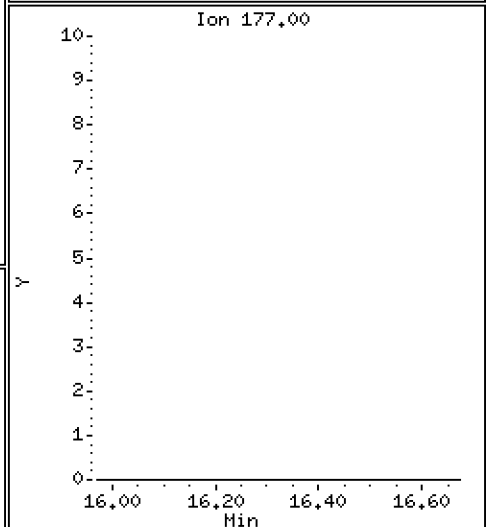
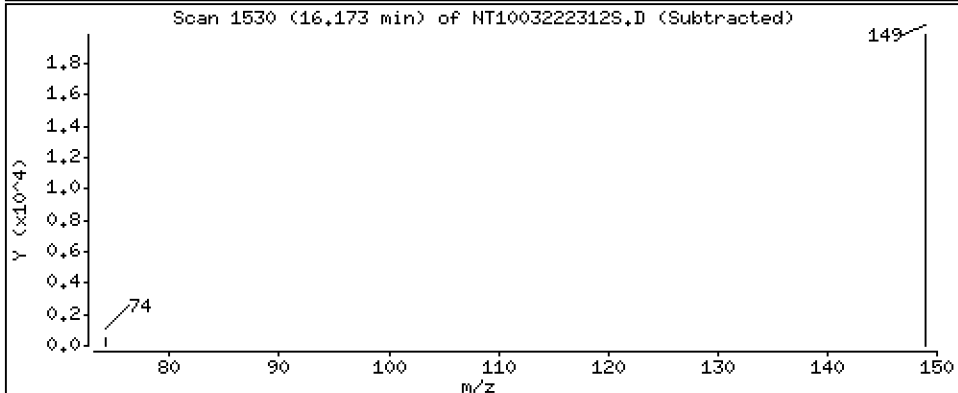
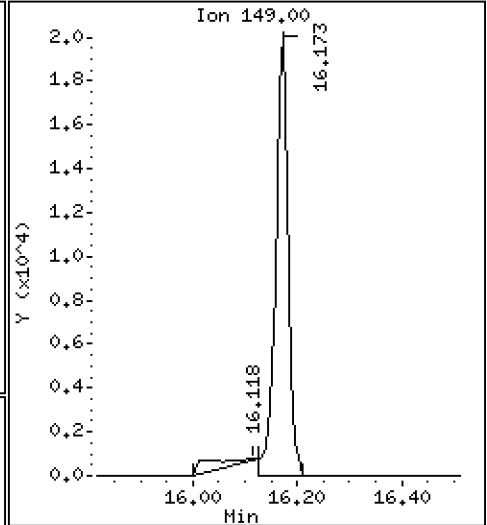
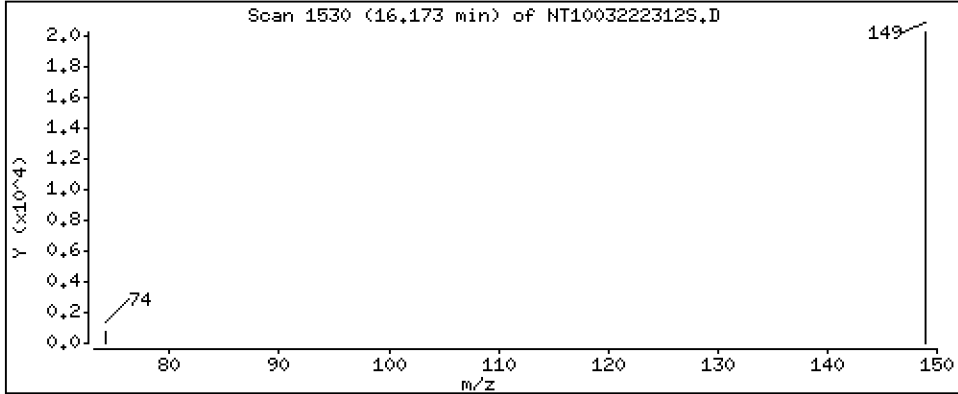
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,3060 ug/L



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03

Volume Injected (uL): 1.0

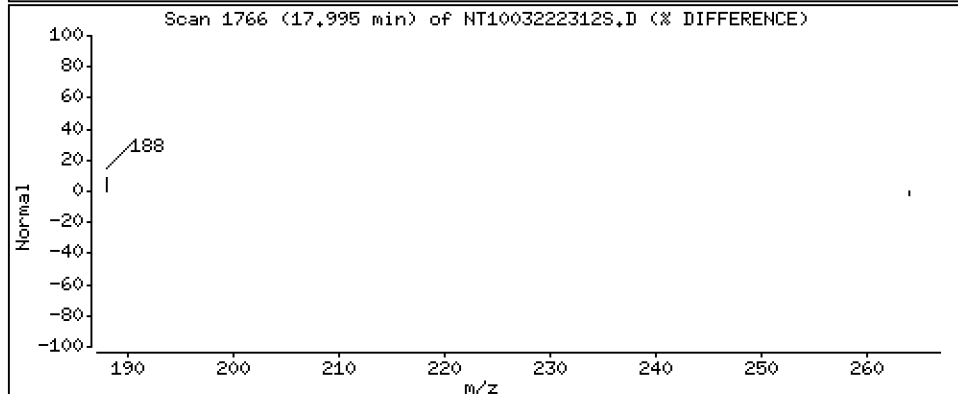
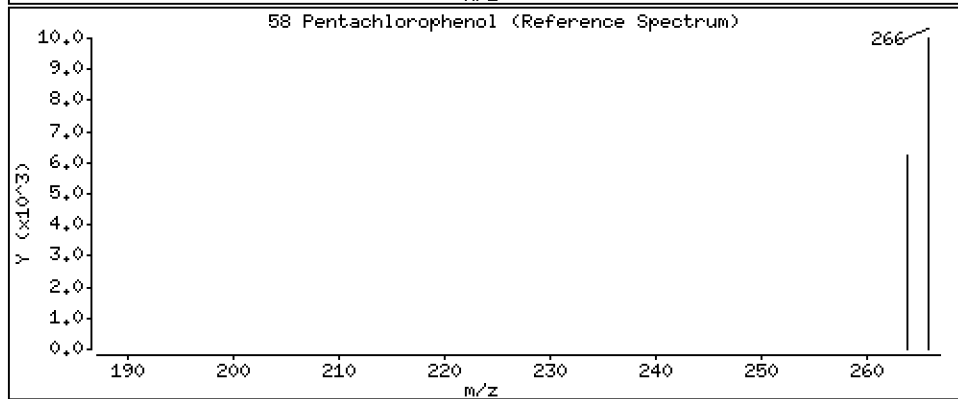
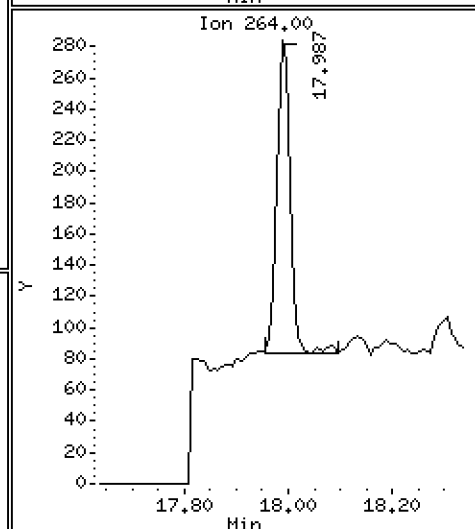
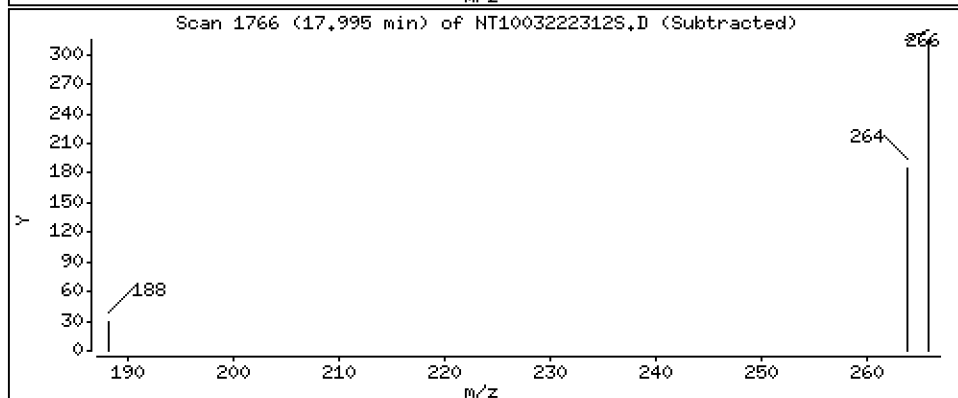
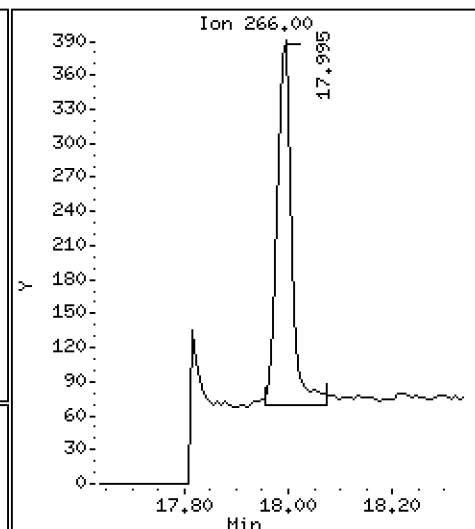
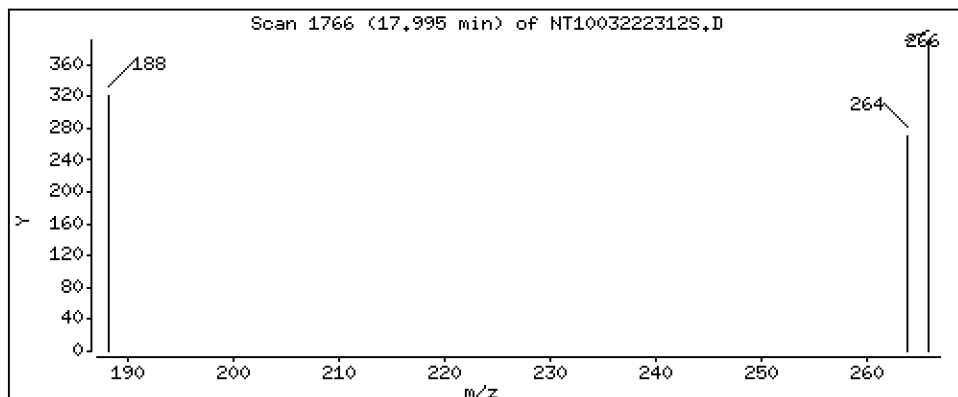
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,02555 ug/L





Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03

Volume Injected (uL): 1.0

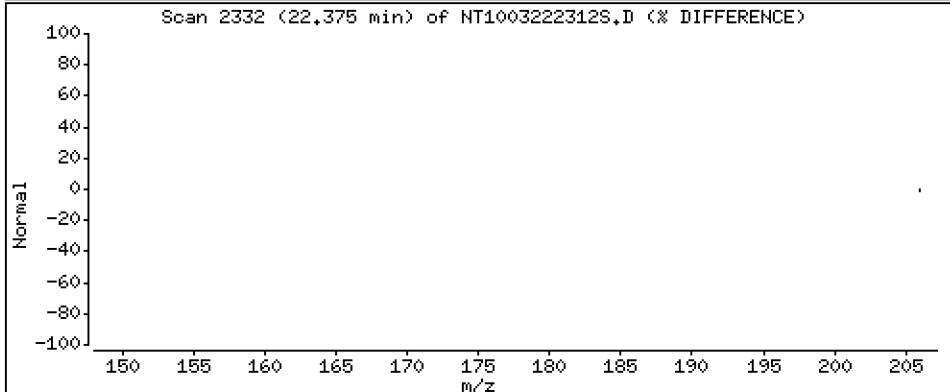
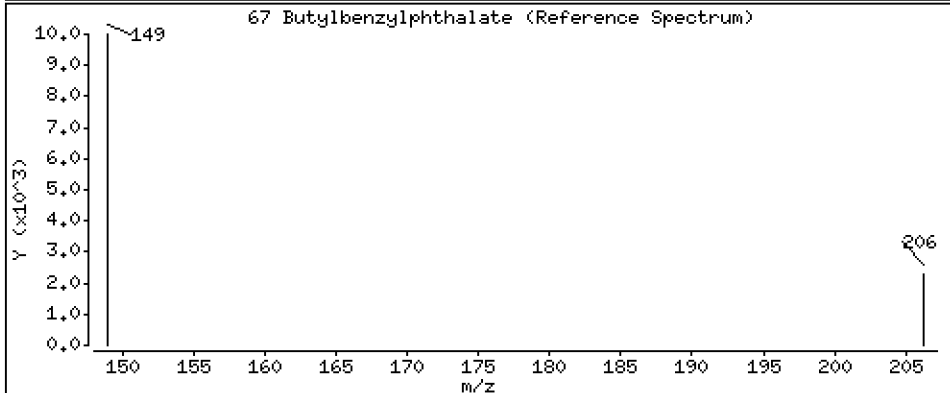
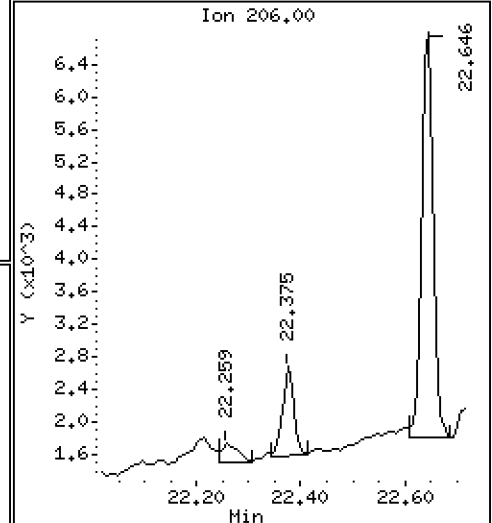
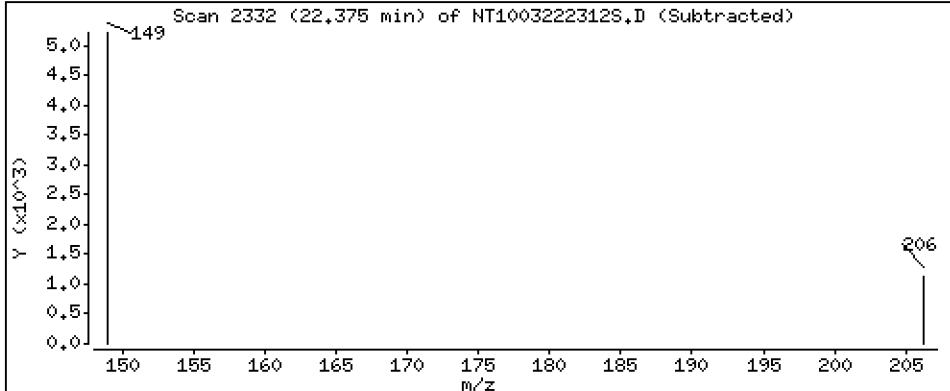
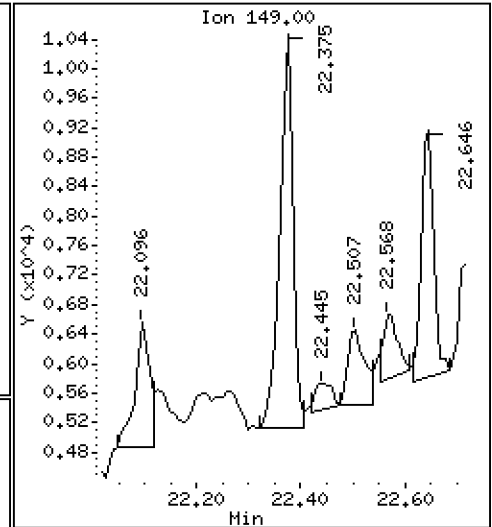
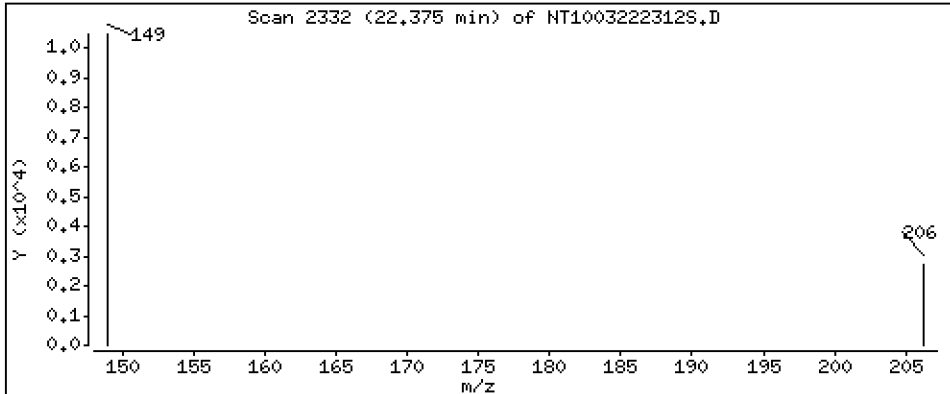
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.1072 ug/L



Date : 23-MAR-2023 00:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-03

Volume Injected (uL): 1.0

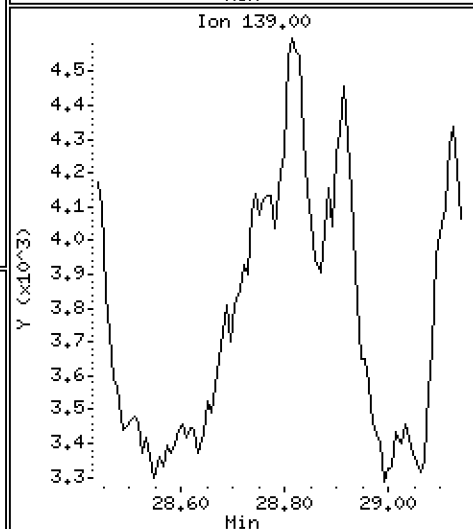
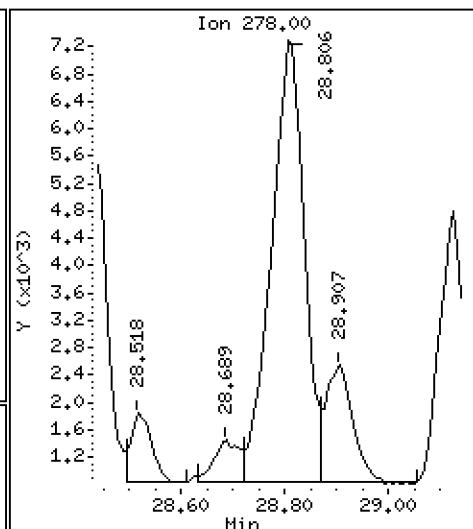
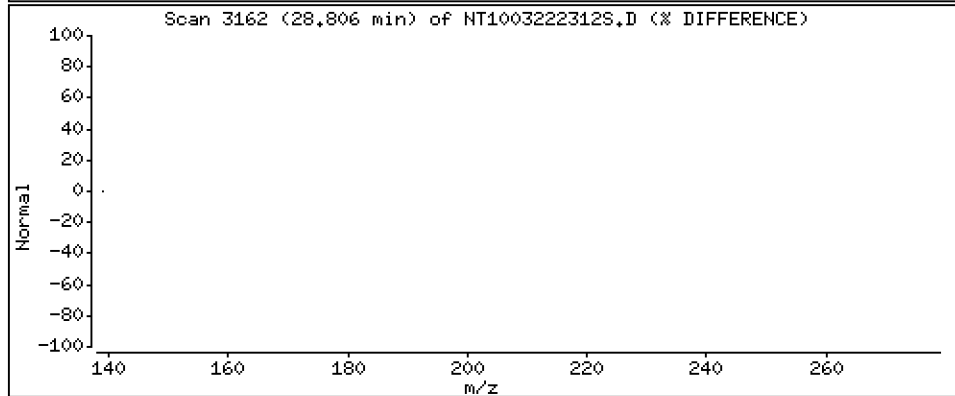
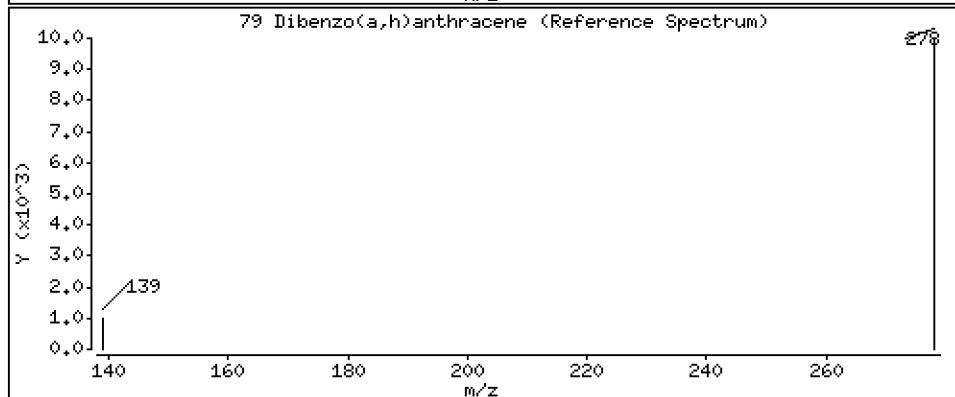
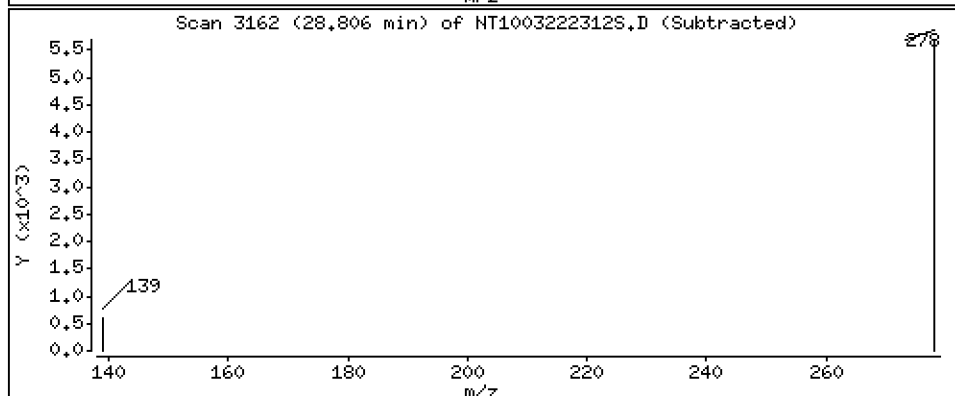
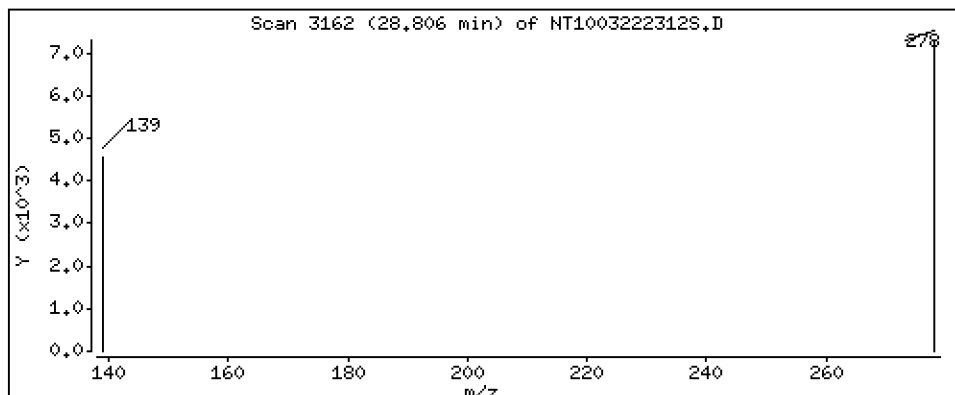
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1162 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222312S.D  
 Lab Smp Id: 23A0179-03  
 Inj Date : 23-MAR-2023 00:05 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : 23A0179-03  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Meth Date : 25-Mar-2023 13:23 yev Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 12  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: ORGDATA102

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT                     | EXP RT         | REL RT | RESPONSE | CONCENTRATIONS |             |
|-------------------------------|-------|-----|------------------------|----------------|--------|----------|----------------|-------------|
|                               |       |     |                        |                |        |          | ON-COLUMN      | FINAL       |
|                               | MASS  |     |                        |                |        |          | (ug/mL)        | ( ug/L)     |
| \$ 1 2-Fluorophenol           | 112   |     | 6.871                  | 6.856 (0.756)  |        | 336625   | 5.74790        | 5.748 (R)   |
| 3 Phenol                      | 94    |     | 8.478                  | 8.471 (0.933)  |        | 251630   | 3.13178        | 3.132       |
| 7 1,3-Dichlorobenzene         | 146   |     | Compound Not Detected. |                |        |          |                |             |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.089                  | 9.090 (1.000)  |        | 193127   | 4.00000        |             |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.113                  | 9.113 (1.003)  |        | 842      | 0.01160        | 0.01160 (M) |
| 11 Benzyl alcohol             | 79    |     | 9.361                  | 9.361 (1.030)  |        | 13766    | 0.29553        | 0.2955 (M)  |
| 12 1,2-Dichlorobenzene        | 146   |     | Compound Not Detected. |                |        |          |                |             |
| 13 2-Methylphenol             | 108   |     | Compound Not Detected. |                |        |          |                |             |
| 15 4-Methylphenol             | 108   |     | 9.858                  | 9.858 (1.085)  |        | 32278    | 0.55795        | 0.5579      |
| 16 N-Nitroso-di-n-propylamine | 70    |     | Compound Not Detected. |                |        |          |                |             |
| 22 2,4-Dimethylphenol         | 107   |     | Compound Not Detected. |                |        |          |                |             |
| 24 Benzoic acid               | 105   |     | 11.016                 | 11.025 (0.952) |        | 27750    | 0.84289        | 0.8429      |
| 26 1,2,4-Trichlorobenzene     | 180   |     | Compound Not Detected. |                |        |          |                |             |
| * 27 Naphthalene-d8           | 136   |     | 11.577                 | 11.569 (1.000) |        | 694580   | 4.00000        |             |
| 30 Hexachlorobutadiene        | 225   |     | Compound Not Detected. |                |        |          |                |             |
| 39 Dimethylphthalate          | 163   |     | 14.710                 | 14.703 (0.968) |        | 5707     | 0.05365        | 0.05365     |
| * 42 Acenaphthene-d10         | 162   |     | 15.198                 | 15.198 (1.000) |        | 337082   | 4.00000        |             |
| 50 Diethylphthalate           | 149   |     | 16.172                 | 16.165 (1.064) |        | 33719    | 0.30599        | 0.3060      |
| 54 N-Nitrosodiphenylamine     | 169   |     | Compound Not Detected. |                |        |          |                |             |
| 57 Hexachlorobenzene          | 284   |     | Compound Not Detected. |                |        |          |                |             |

| Compounds                 | QUANT SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|
|                           |           |                        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>( ug/L) |
| 58 Pentachlorophenol      | 266       | 17.994                 | 17.987 | (0.986) | 605      | 0.02555              | 0.02555 (M)      |
| * 59 Phenanthrene-d10     | 188       | 18.258                 | 18.250 | (1.000) | 714334   | 4.00000              |                  |
| \$ 66 Terphenyl-d14       | 244       | 21.430                 | 21.422 | (0.918) | 531353   | 5.07251              | 5.073 (R)        |
| 67 Butylbenzylphthalate   | 149       | 22.374                 | 22.367 | (0.958) | 9063     | 0.10716              | 0.1072           |
| * 69 Chrysene-d12         | 240       | 23.350                 | 23.343 | (1.000) | 642901   | 4.00000              |                  |
| * 77 Perylene-d12         | 264       | 26.044                 | 26.029 | (1.000) | 755383   | 4.00000              |                  |
| 79 Dibenzo(a,h)anthracene | 278       | 28.805                 | 28.790 | (1.106) | 28792    | 0.11616              | 0.1162           |
| 90 N-Nitrosodimethylamine | 74        | Compound Not Detected. |        |         |          |                      |                  |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT1003222312S.D  
 Lab Smp Id: 23A0179-03  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Misc Info:

Calibration Date: 22-MAR-2023  
 Calibration Time: 18:20  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 135191   | 67596      | 270382  | 193127 | 42.85 |
| 27 Naphthalene-d8   | 487226   | 243613     | 974452  | 694580 | 42.56 |
| 42 Acenaphthene-d10 | 246588   | 123294     | 493176  | 337082 | 36.70 |
| 59 Phenanthrene-d10 | 479352   | 239676     | 958704  | 714334 | 49.02 |
| 69 Chrysene-d12     | 439791   | 219896     | 879582  | 642901 | 46.18 |
| 77 Perylene-d12     | 505700   | 252850     | 1011400 | 755383 | 49.37 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.09     | 8.59     | 9.59  | 9.09   | -0.00 |
| 27 Naphthalene-d8   | 11.57    | 11.07    | 12.07 | 11.58  | 0.06  |
| 42 Acenaphthene-d10 | 15.20    | 14.70    | 15.70 | 15.20  | -0.00 |
| 59 Phenanthrene-d10 | 18.25    | 17.75    | 18.75 | 18.26  | 0.04  |
| 69 Chrysene-d12     | 23.34    | 22.84    | 23.84 | 23.35  | 0.03  |
| 77 Perylene-d12     | 26.03    | 25.53    | 26.53 | 26.04  | 0.06  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222312S.D

Lab ID: 23A0179-03

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 23-MAR-2023 00:05

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

---

NONE

RRT check based on Ccal File: SIM.b/NT1003222303S.D

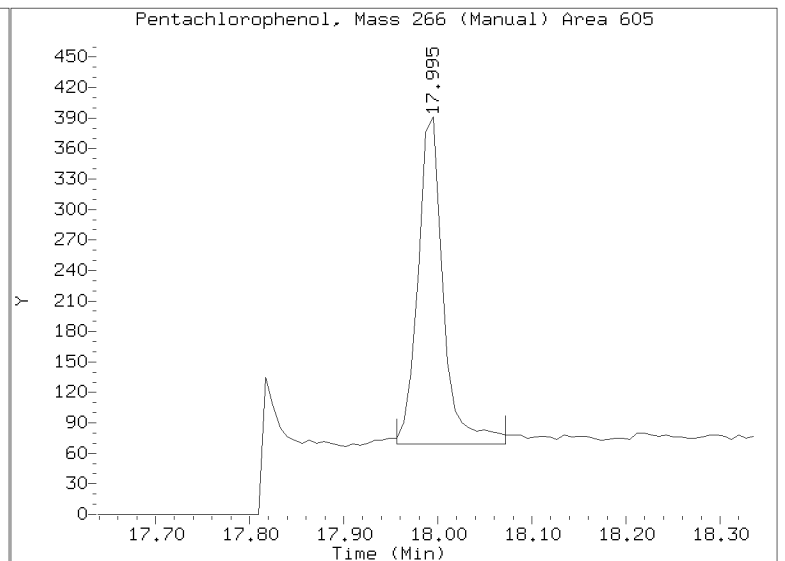
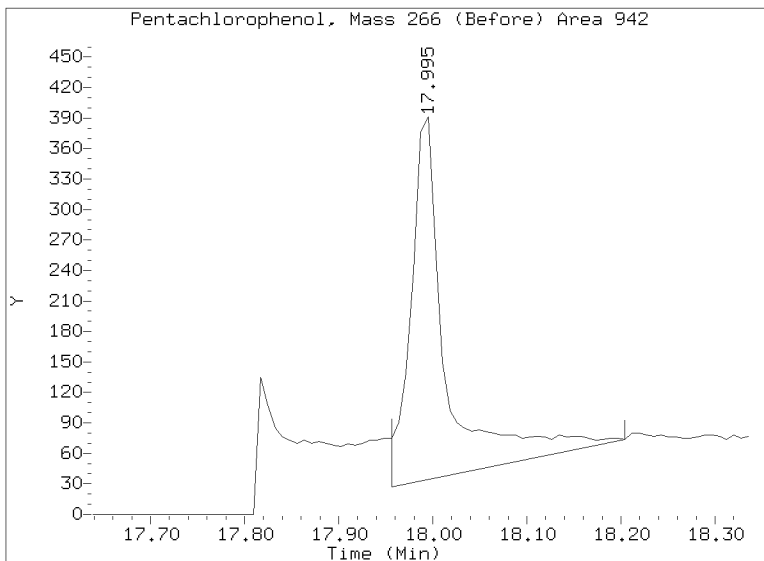
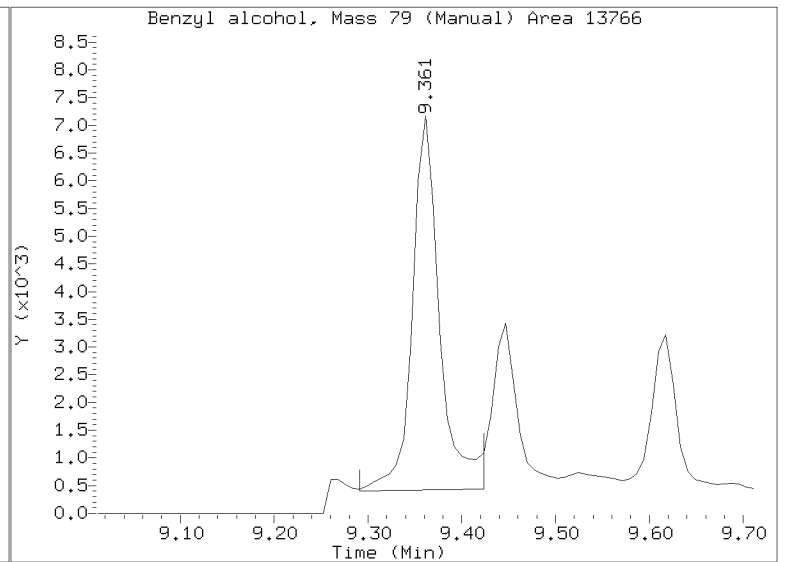
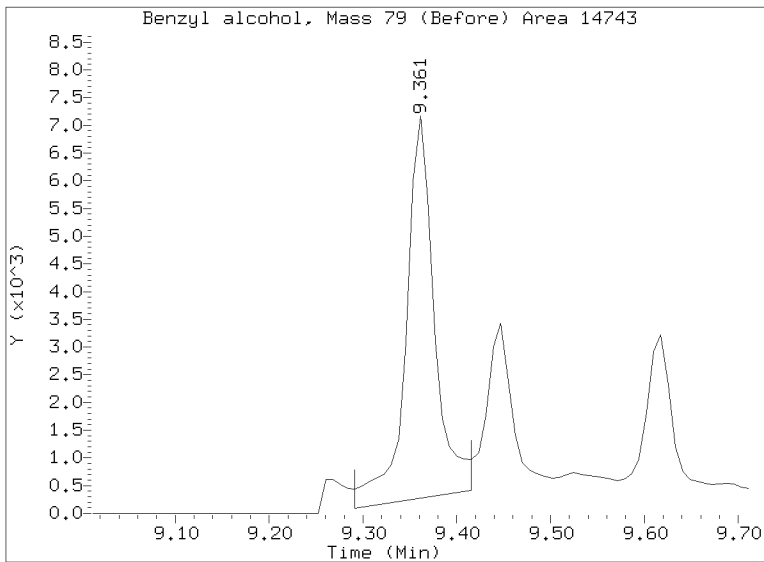
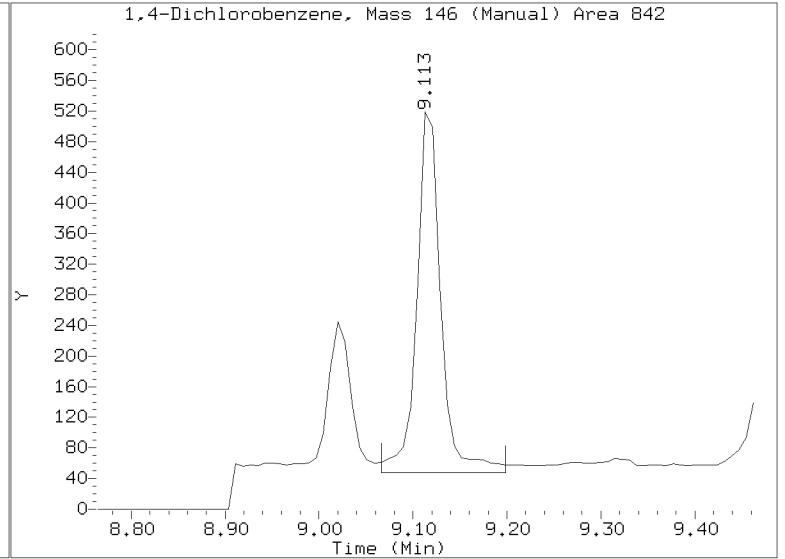
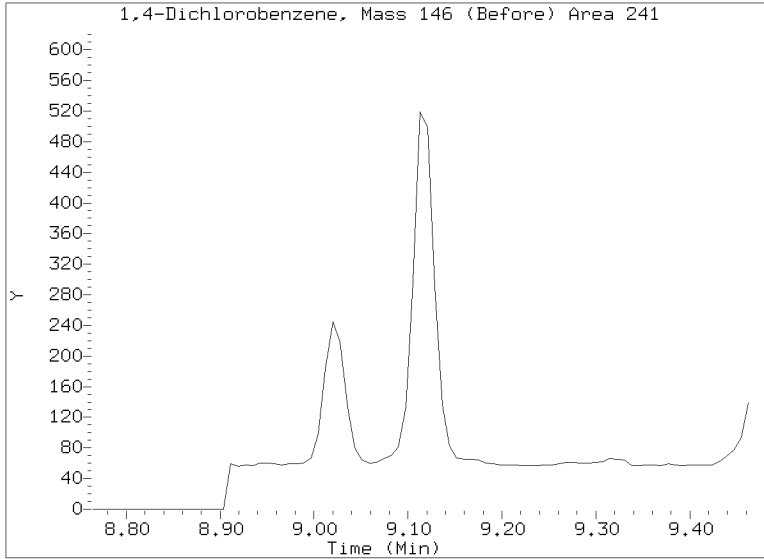
On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222312S.D  
Injection Date: 23-MAR-2023 00:05  
Lab ID:23A0179-03 Client ID:  
Report Date: 03/25/2023 13:23





**Form I**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8270E-SIM**  
**SIM SVOC Organics (Dual scan list)**

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-04RE1 A

SDG: 23A0179

Sampled: 01/10/23 09:20

Prepared: 03/17/23 14:20

File ID: NT1003222313S.D

% Solids: 53.74

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 00:43

Batch: BLC0442

Sequence: SLC0407

Initial/Final: 18.69 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00049

Cleanups: GPC

| CAS NO.  | COMPOUND               | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|------------------------|----------|----------------------|---|------|------|
| 106-46-7 | 1,4-Dichlorobenzene    | 1        | 1.2                  | J | 0.6  | 5.0  |
| 95-50-1  | 1,2-Dichlorobenzene    | 1        | 5.0                  | U | 0.7  | 5.0  |
| 100-51-6 | Benzyl Alcohol         | 1        | 26.6                 |   | 2.5  | 19.9 |
| 65-85-0  | Benzoic acid           | 1        | 62.2                 | J | 13.3 | 99.6 |
| 105-67-9 | 2,4-Dimethylphenol     | 1        | 19.9                 | U | 2.2  | 19.9 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1        | 5.0                  | U | 2.7  | 5.0  |
| 86-30-6  | N-Nitrosodiphenylamine | 1        | 5.0                  | U | 1.3  | 5.0  |
| 87-86-5  | Pentachlorophenol      | 1        | 19.9                 | U | 2.1  | 19.9 |

| SURROGATES      | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|-----------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol  | 746.71                | 556                   | 74.4  | 27 - 120  |   |
| p-Terphenyl-d14 | 497.81                | 529                   | 106   | 37 - 120  |   |



Data File: \\target\share\chem3\nt10.1\20230322.16\SIH.6\NT1003222313S.D

Date : 23-MAR-2023 00:43

Client ID:

Sample Info: 23A0179-04

Volume Injected (uL): 1.0

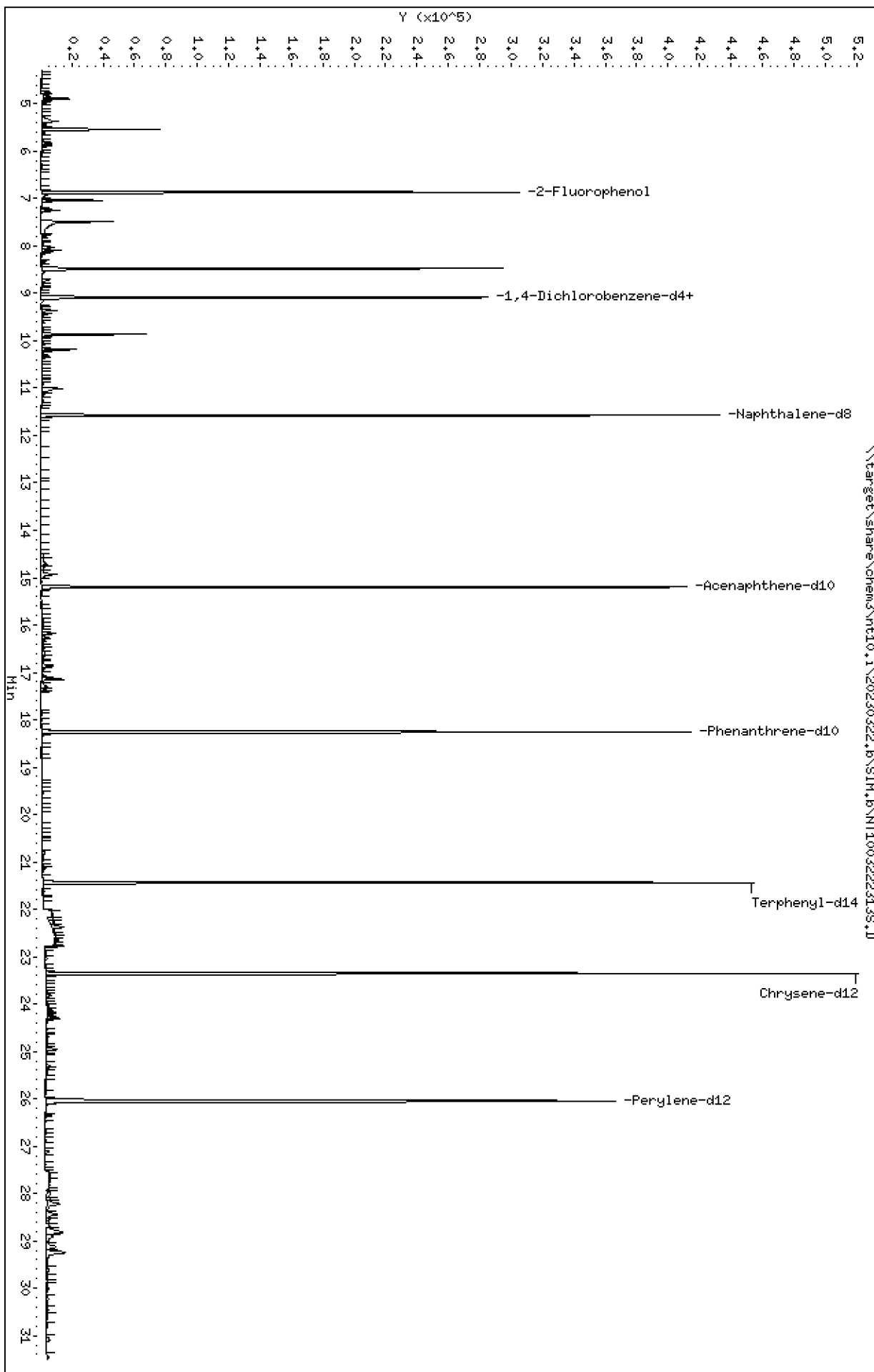
Column phase: ZB-5msi

Instrument: nt10.1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04

Volume Injected (uL): 1.0

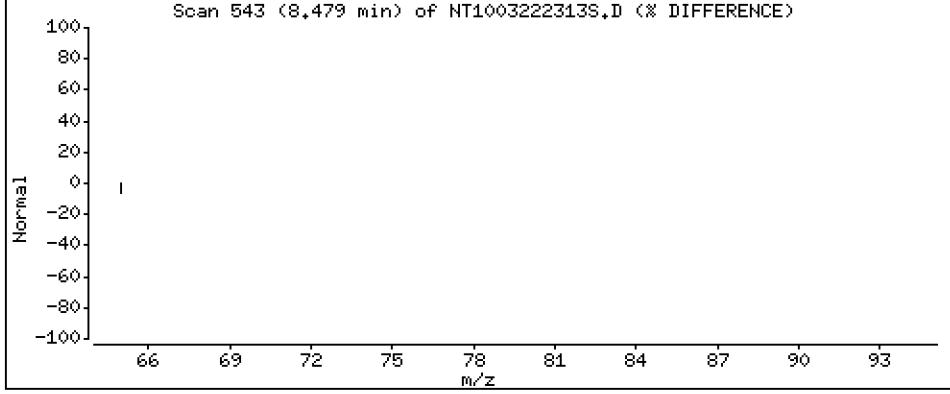
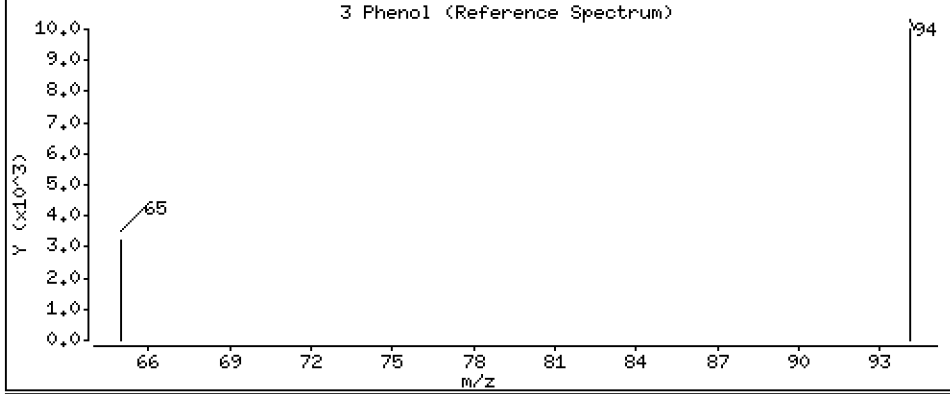
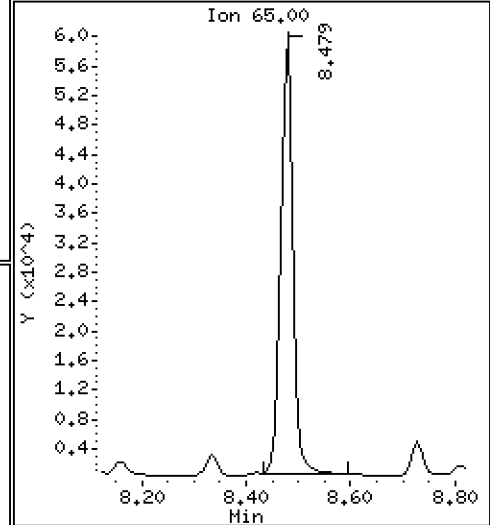
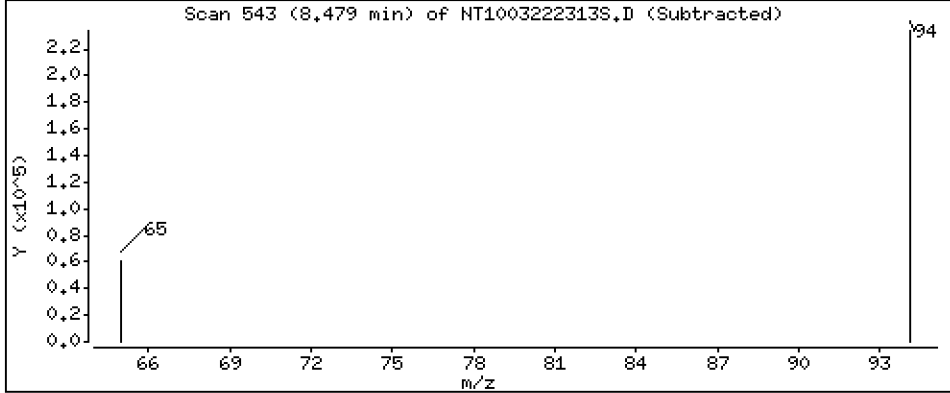
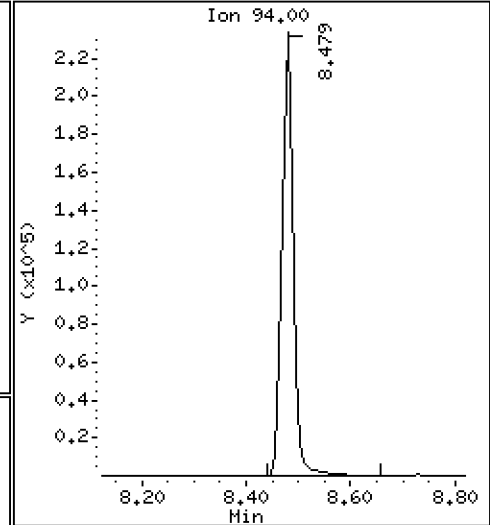
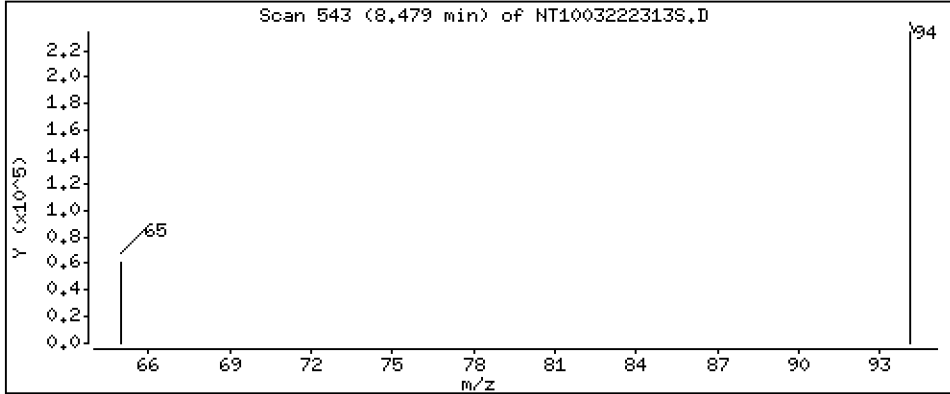
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 4.496 ug/L



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04

Volume Injected (uL): 1.0

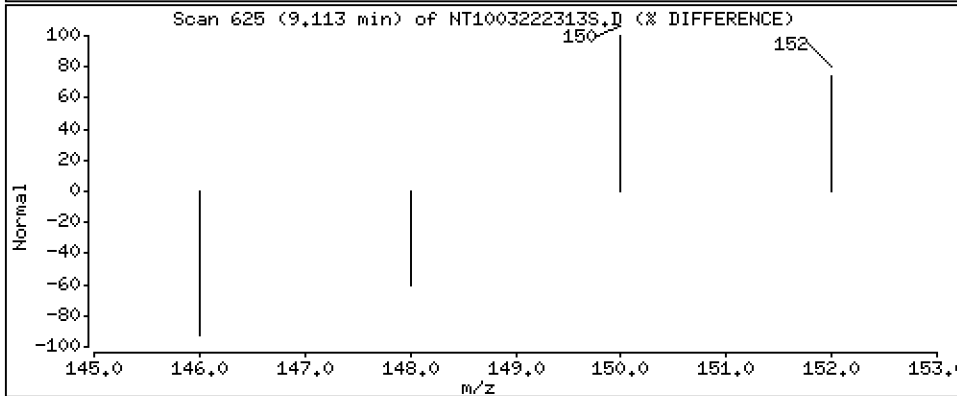
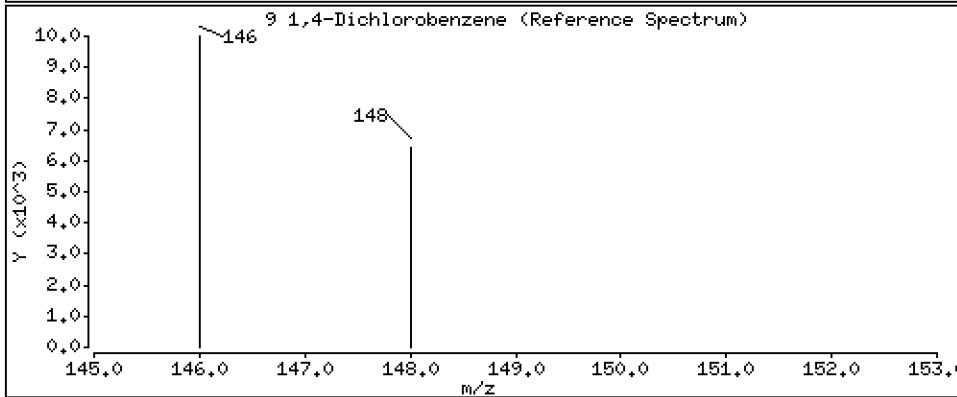
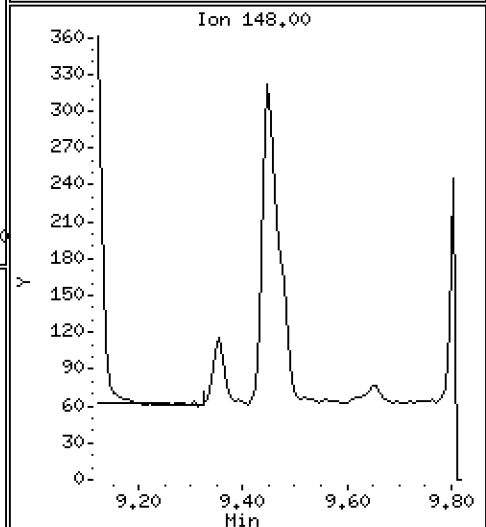
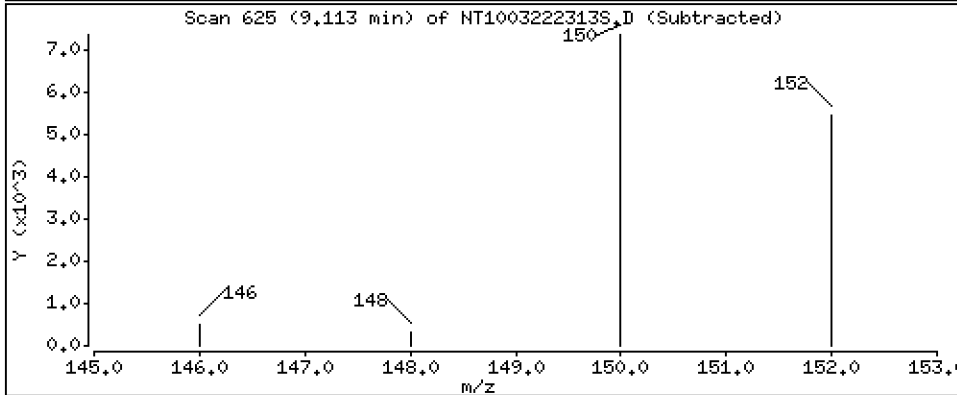
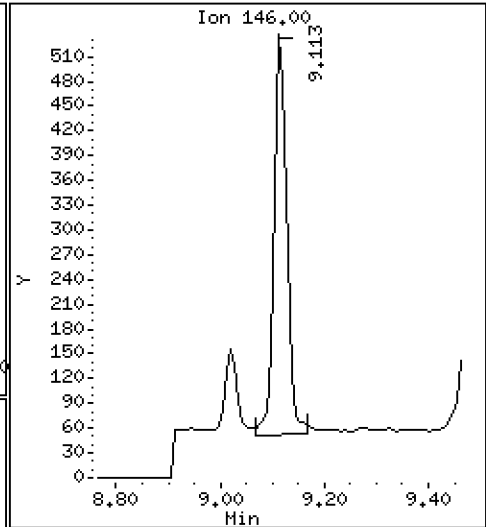
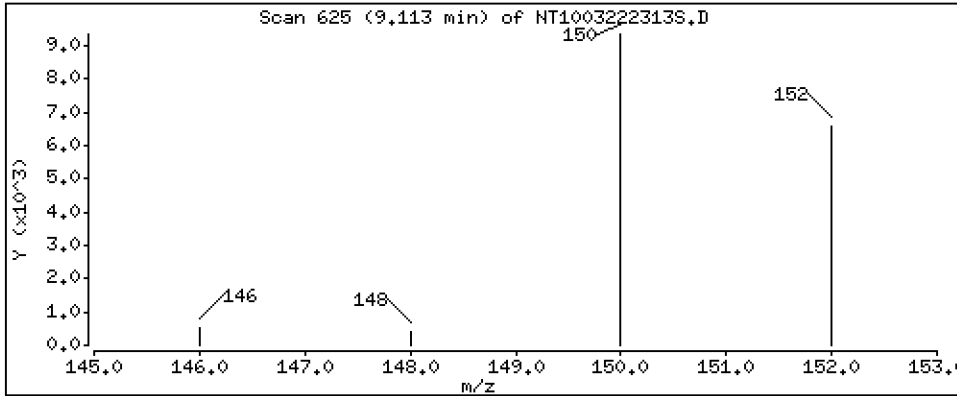
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,01163 ug/L



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04

Volume Injected (uL): 1.0

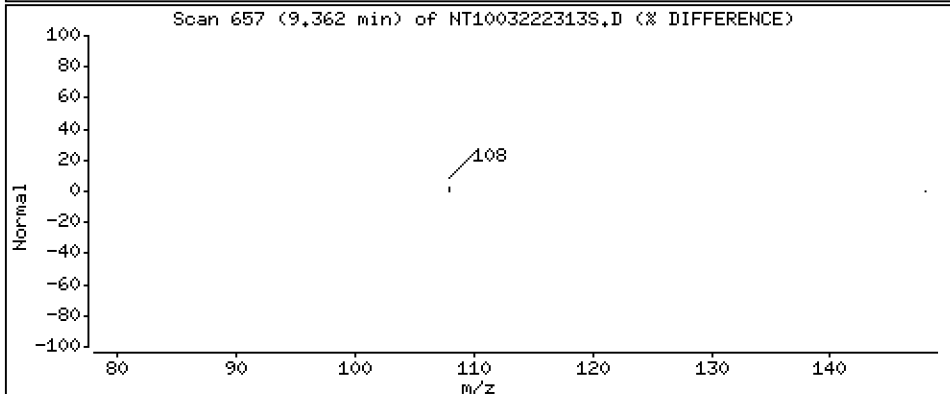
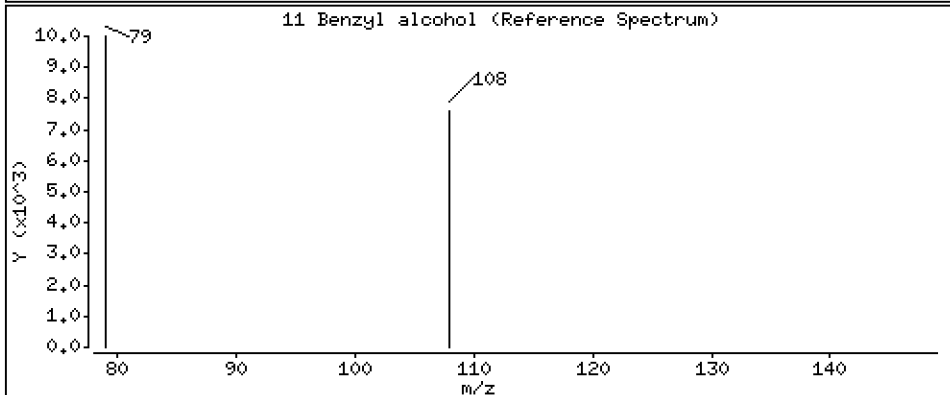
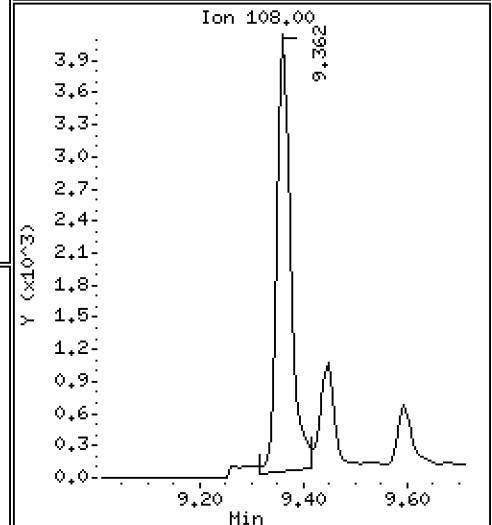
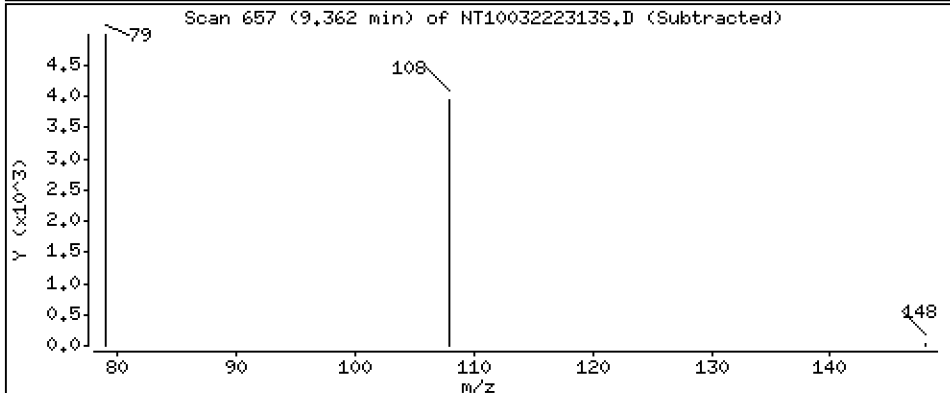
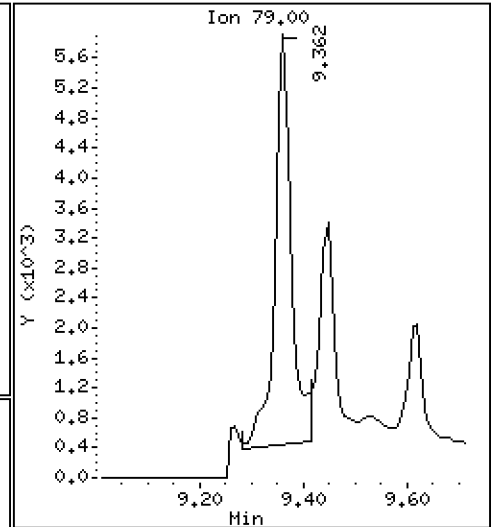
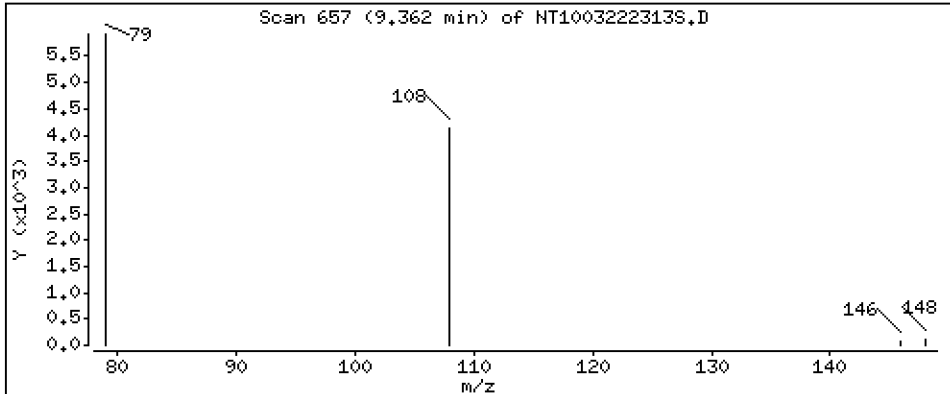
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.2670 ug/L



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04

Volume Injected (uL): 1.0

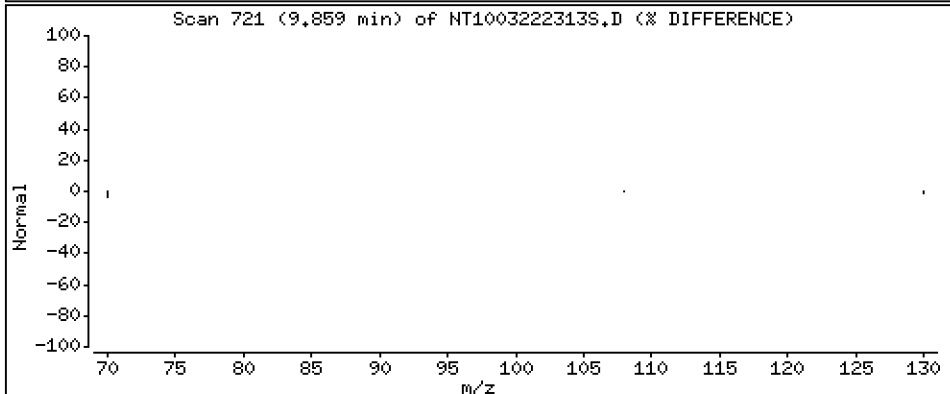
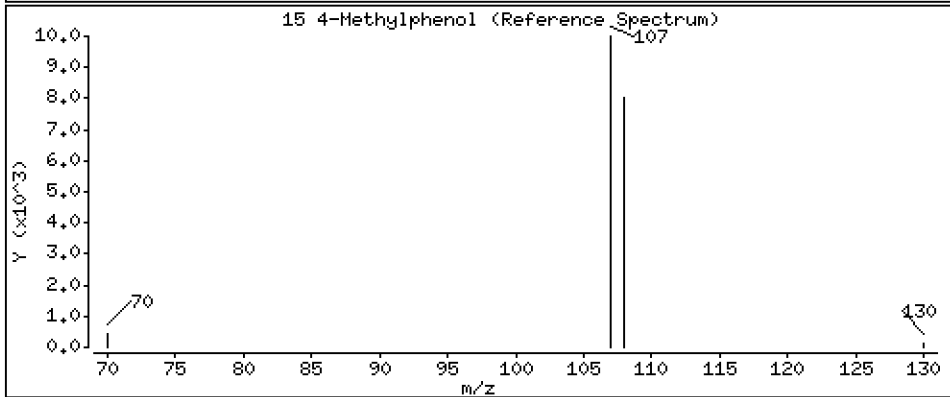
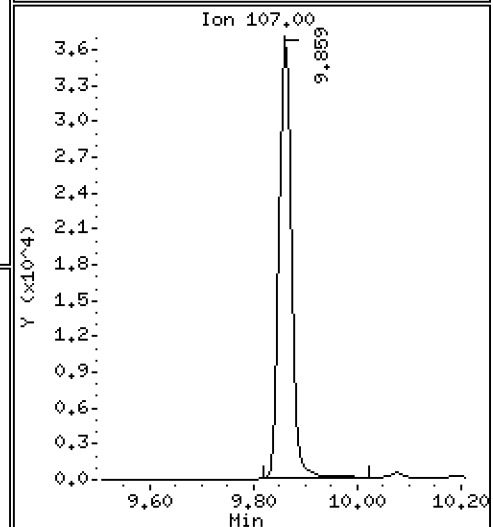
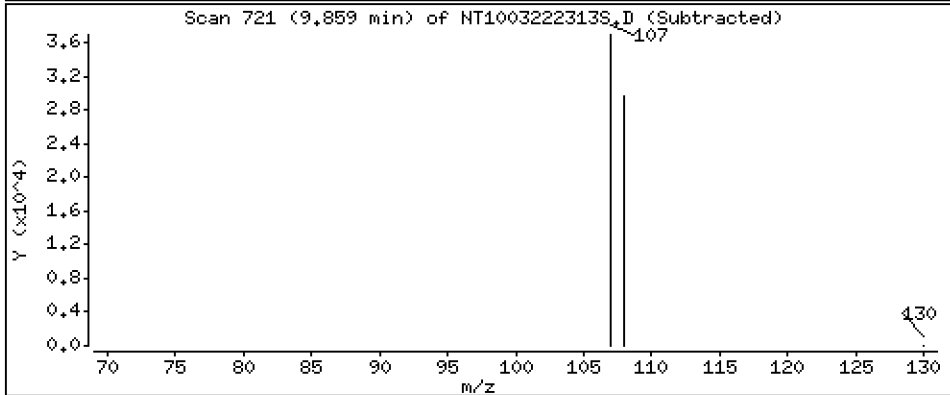
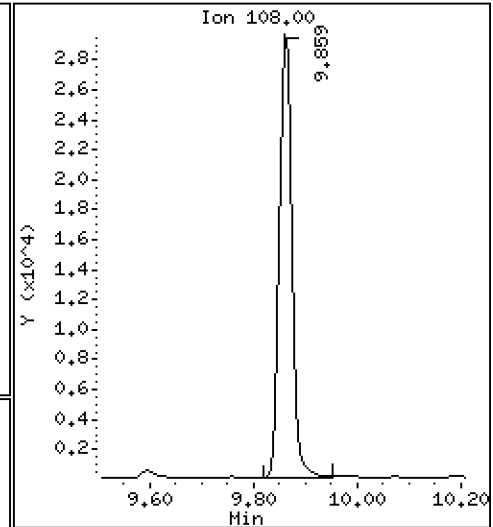
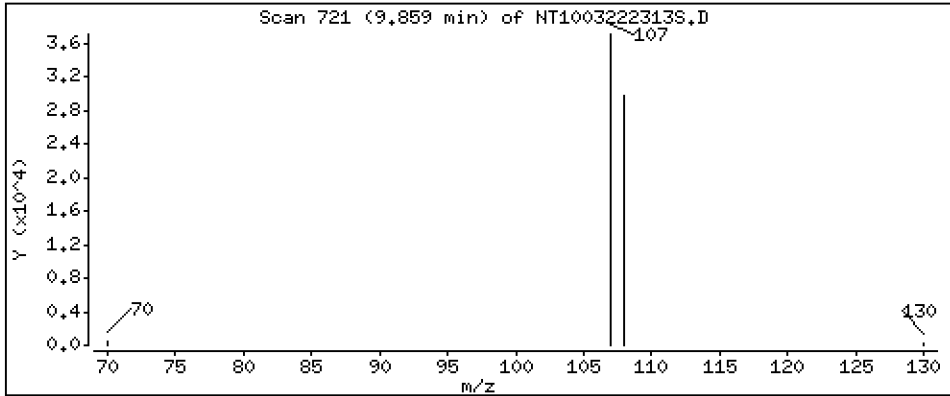
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.8703 ug/L



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04

Volume Injected (uL): 1.0

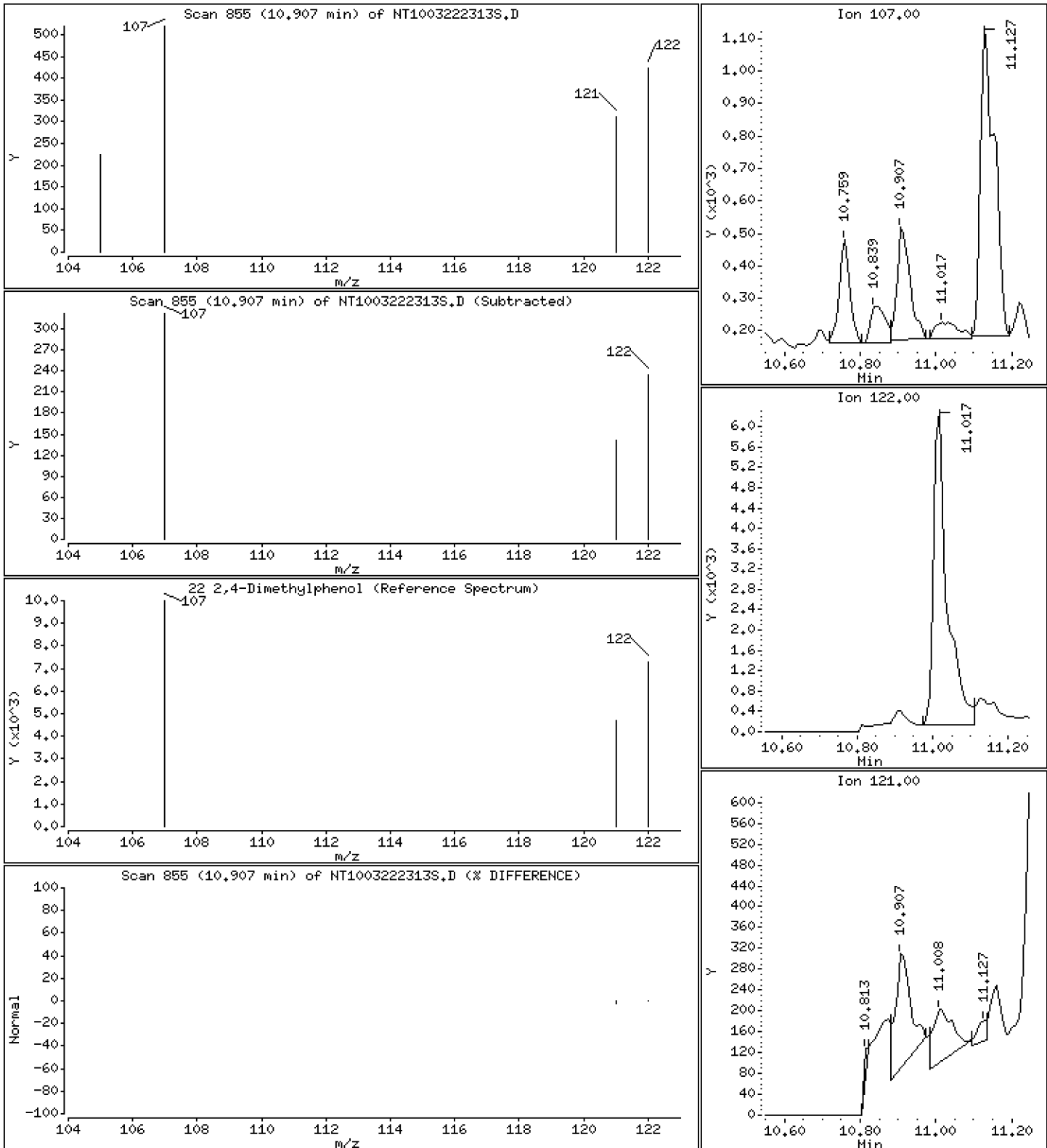
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 0.01421 ug/L



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04

Volume Injected (uL): 1.0

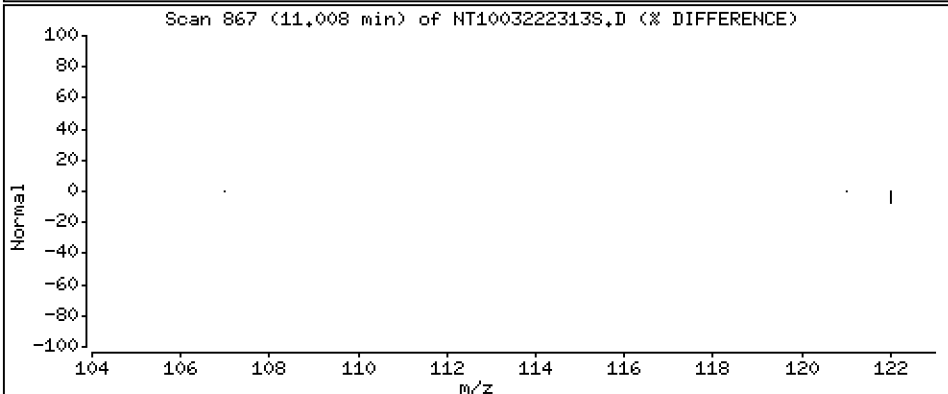
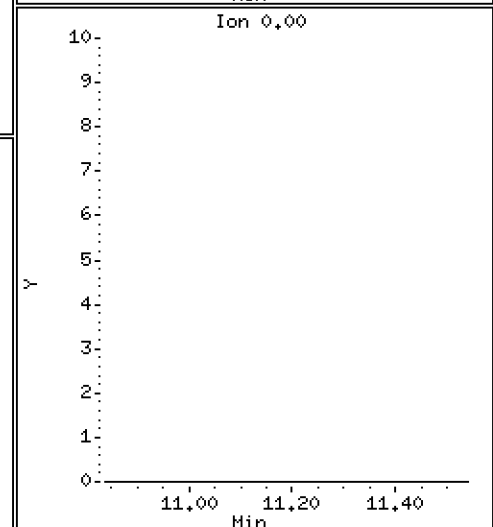
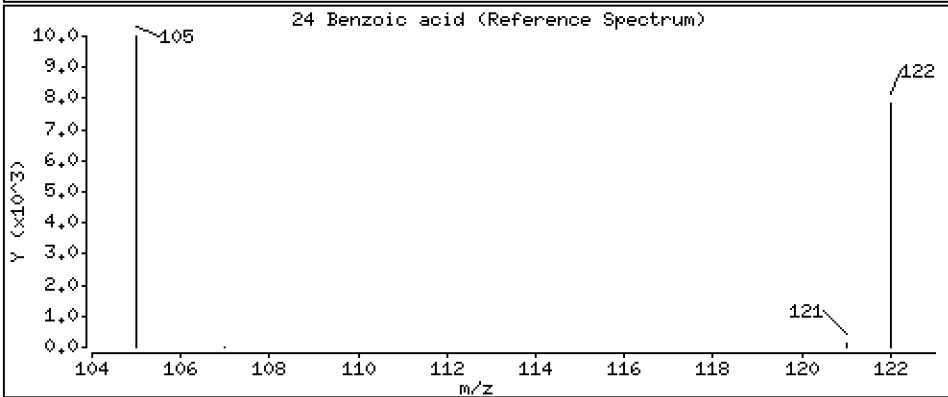
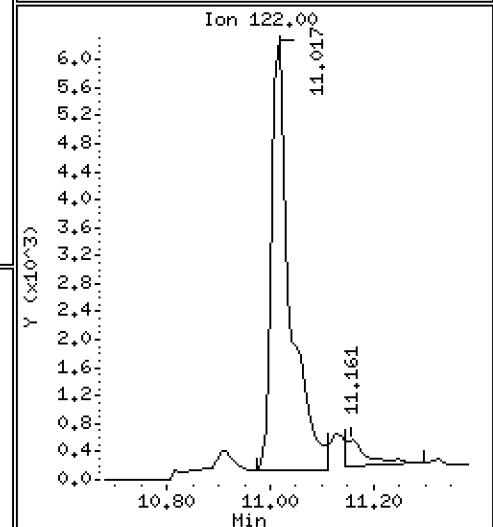
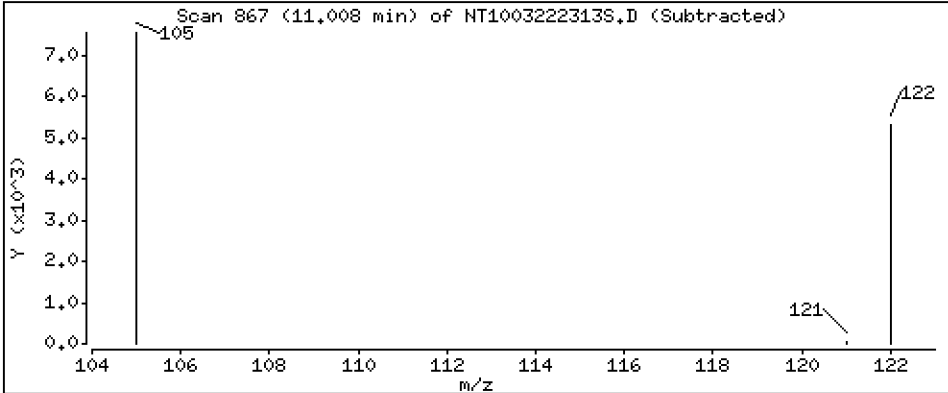
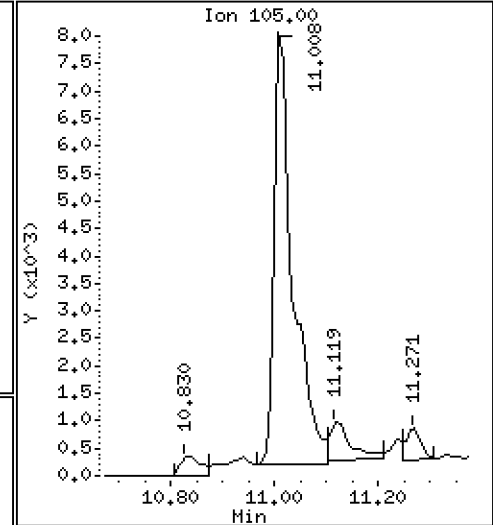
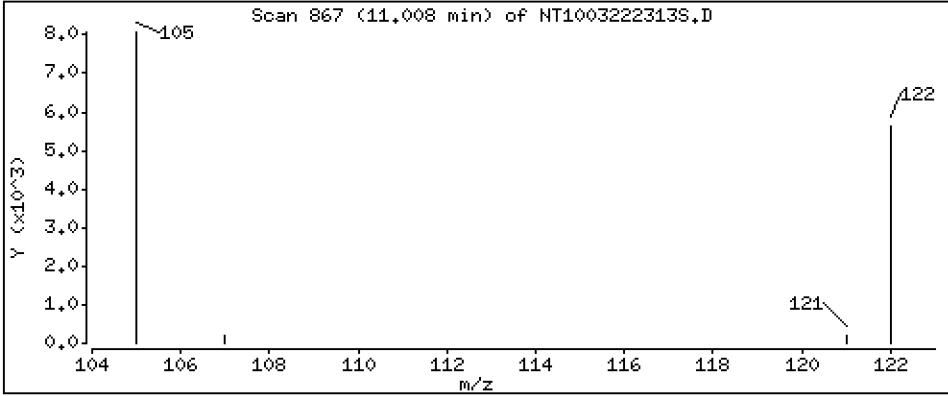
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.6249 ug/L



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04

Volume Injected (uL): 1.0

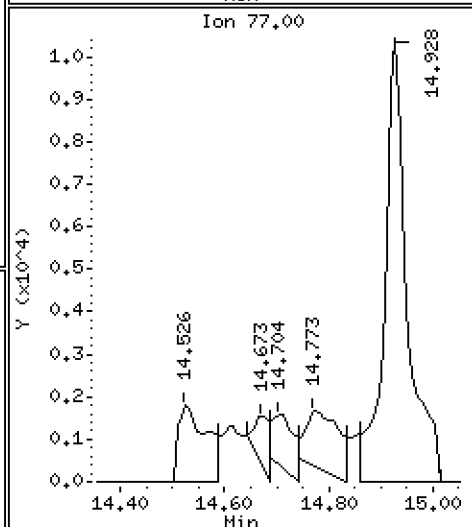
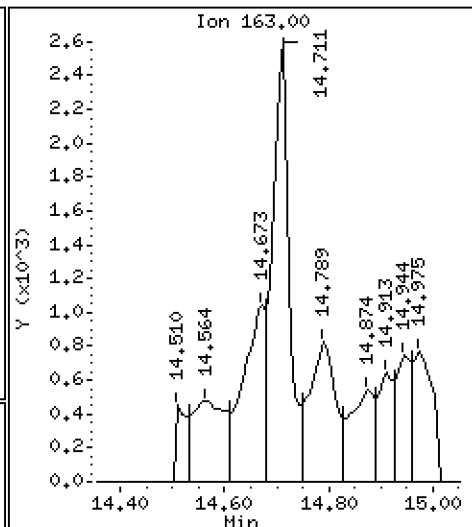
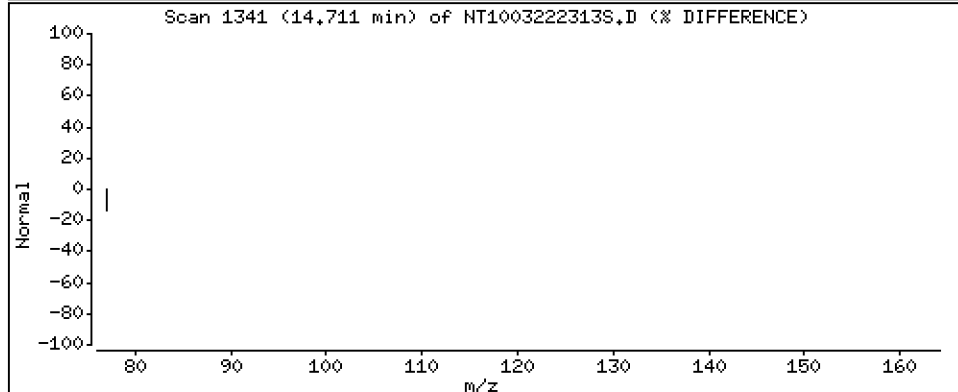
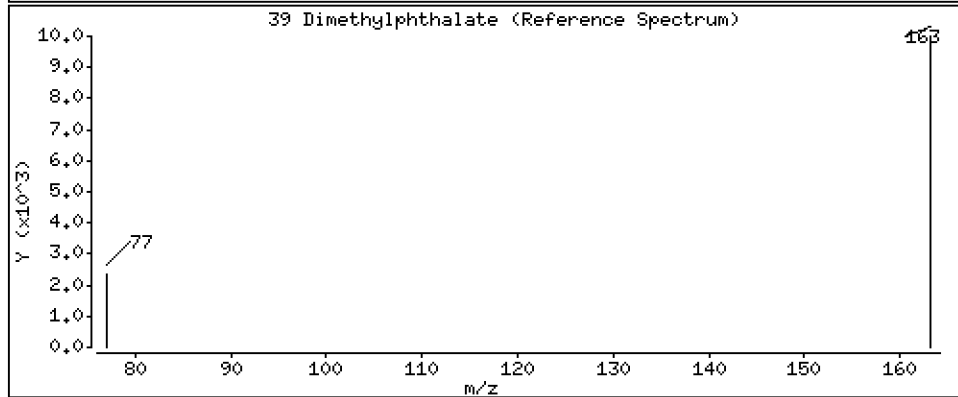
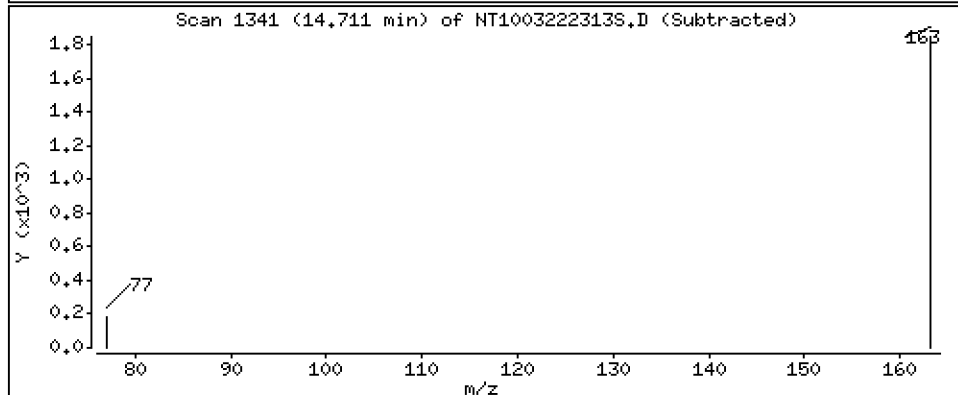
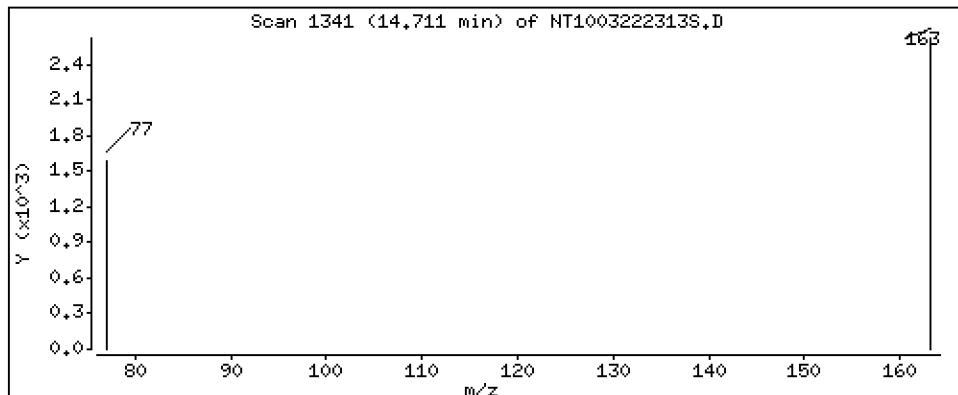
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,05728 ug/L





Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04

Volume Injected (uL): 1.0

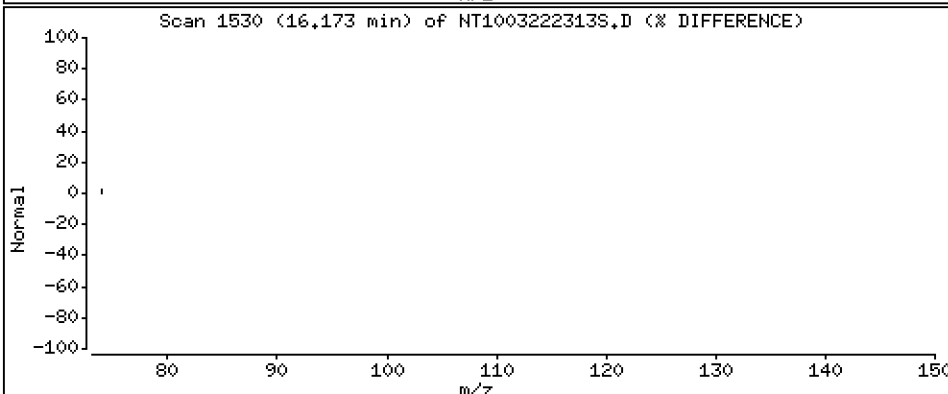
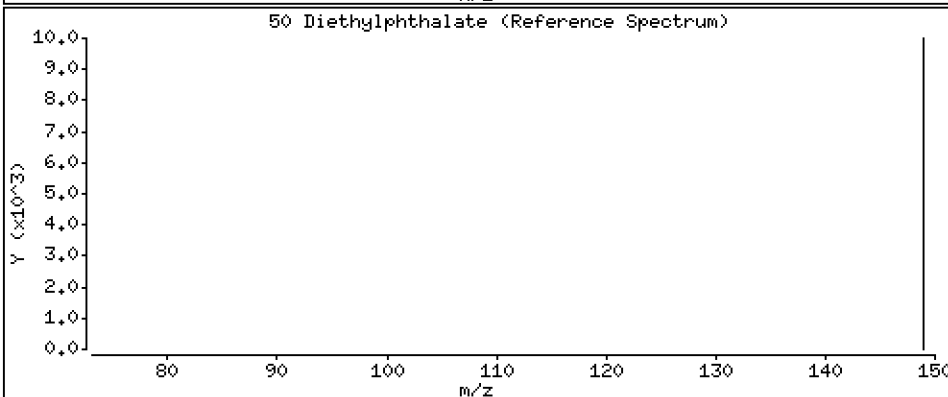
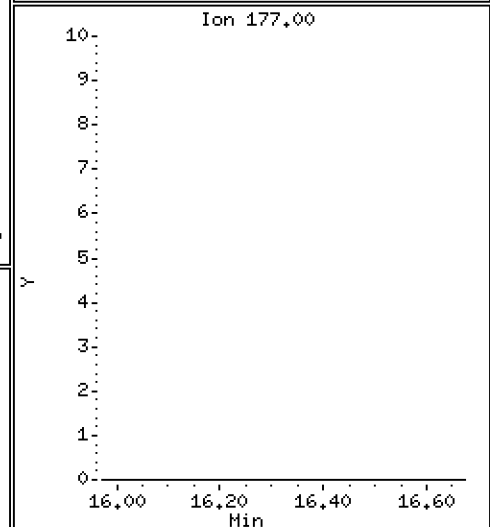
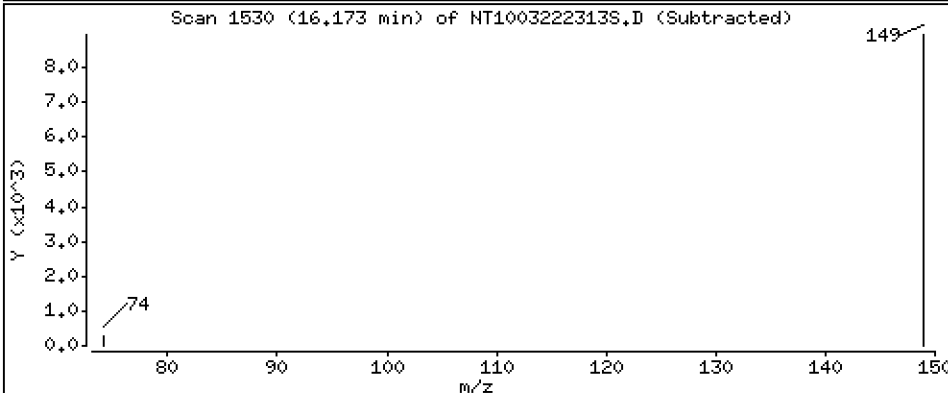
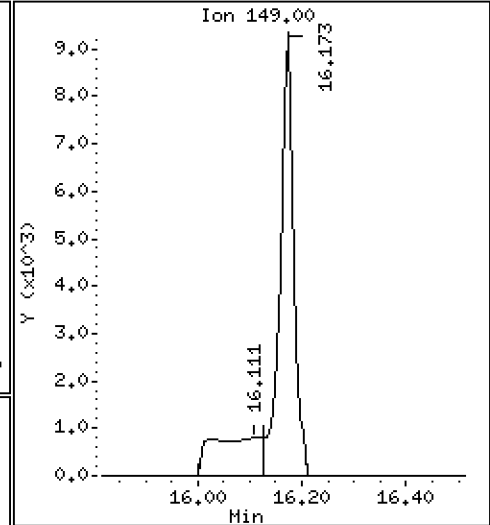
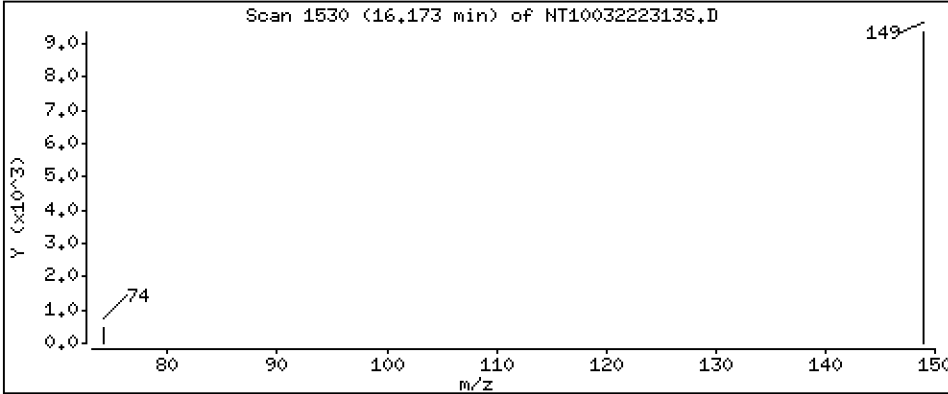
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,1596 ug/L



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04

Volume Injected (uL): 1.0

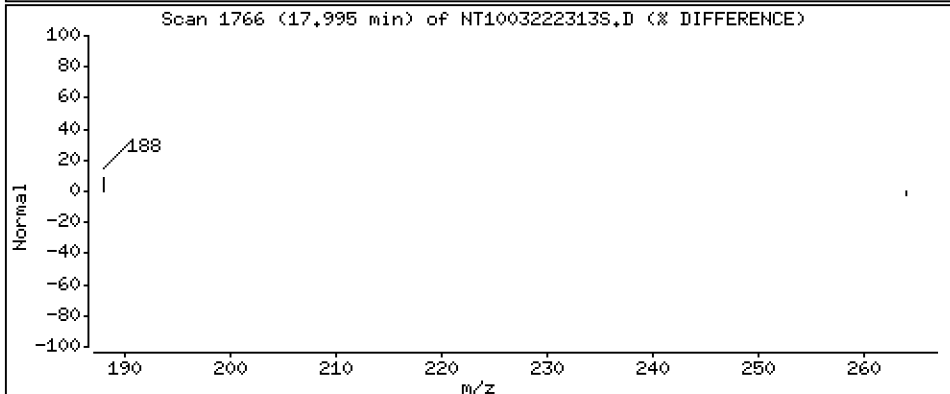
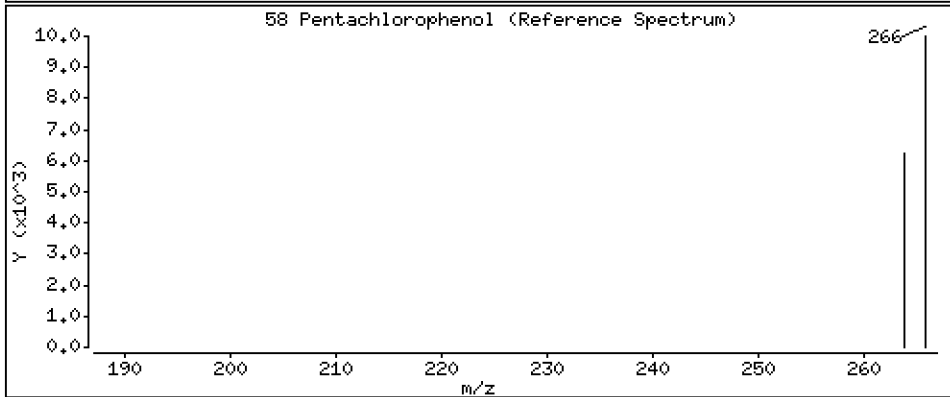
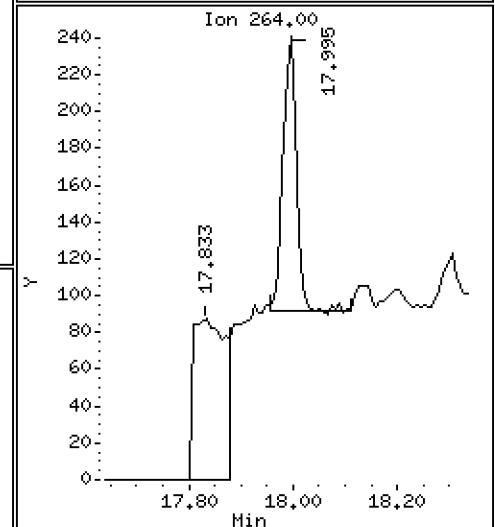
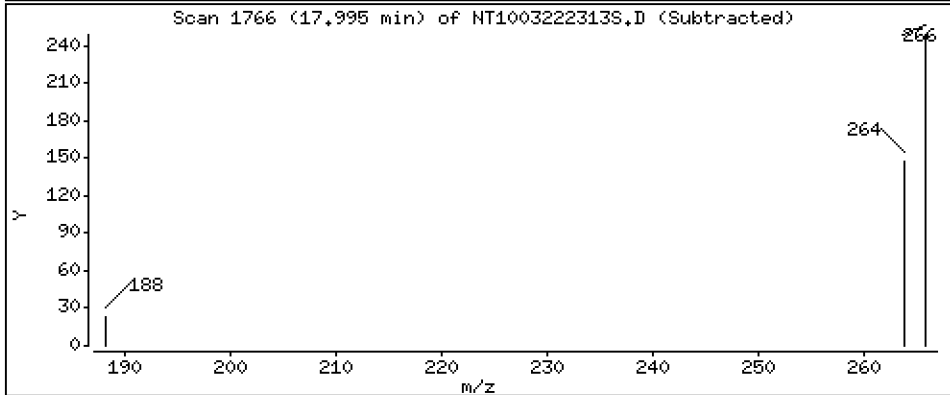
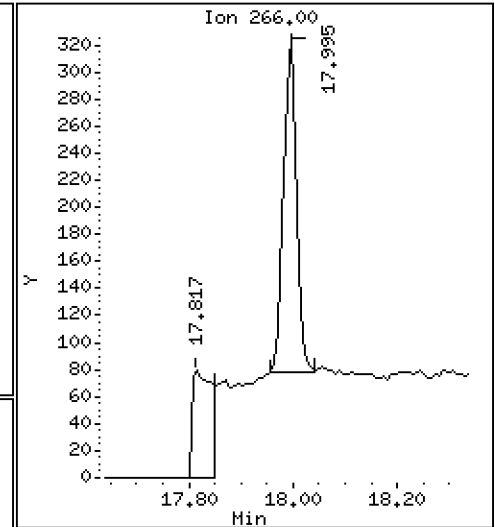
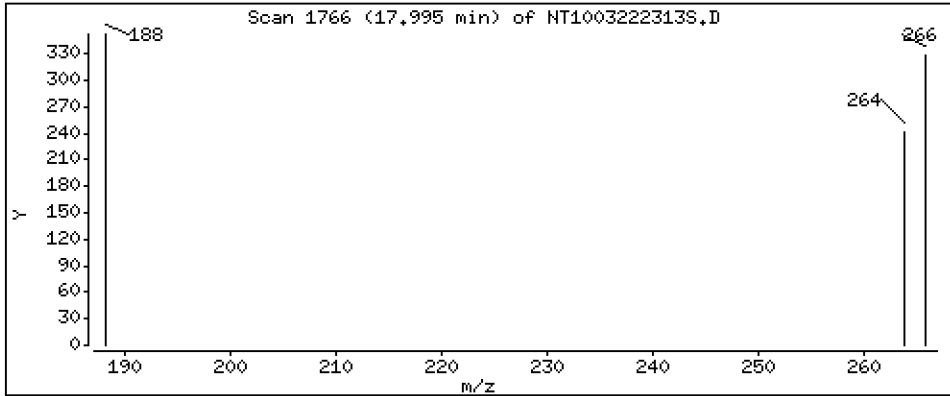
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,01765 ug/L



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04

Volume Injected (uL): 1.0

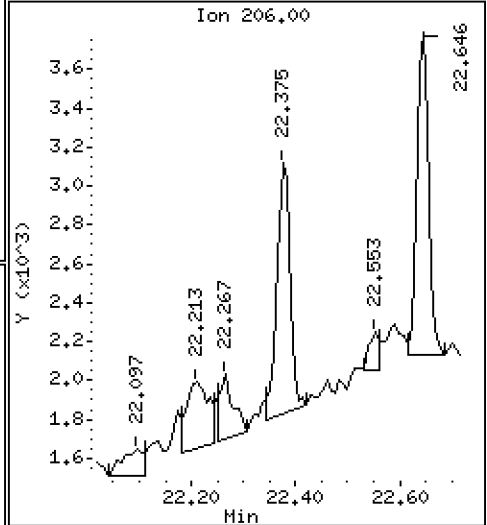
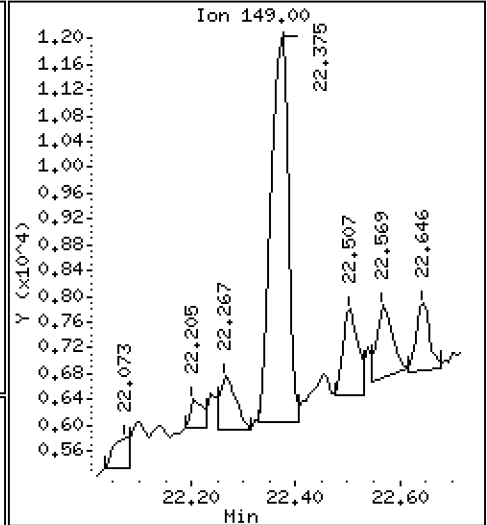
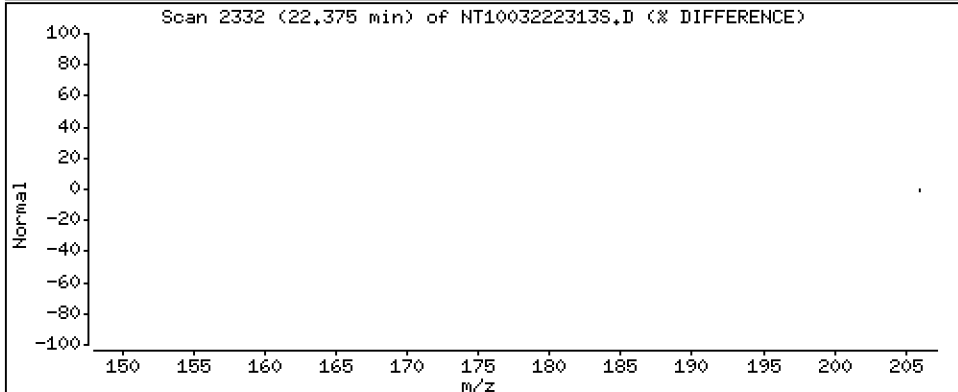
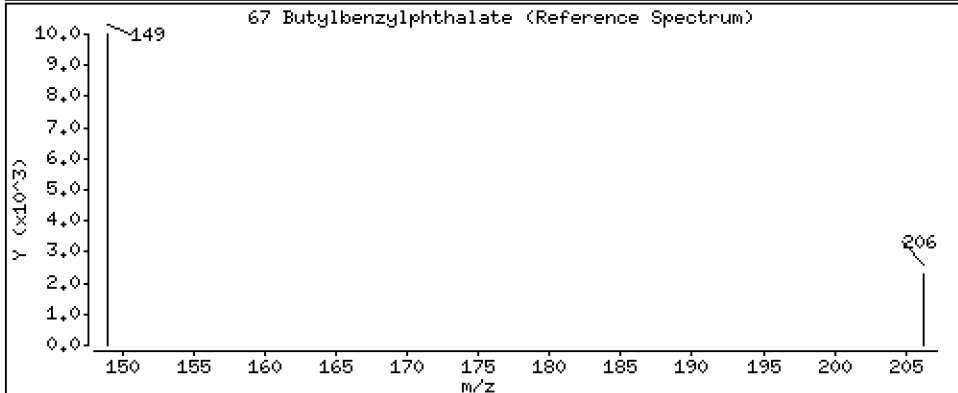
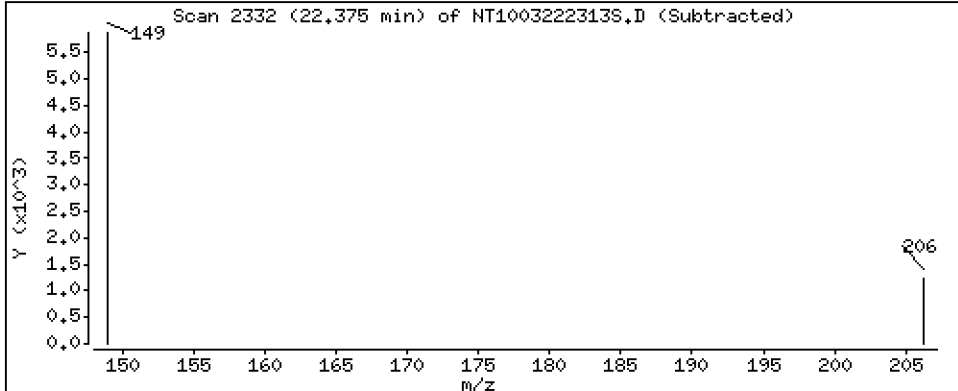
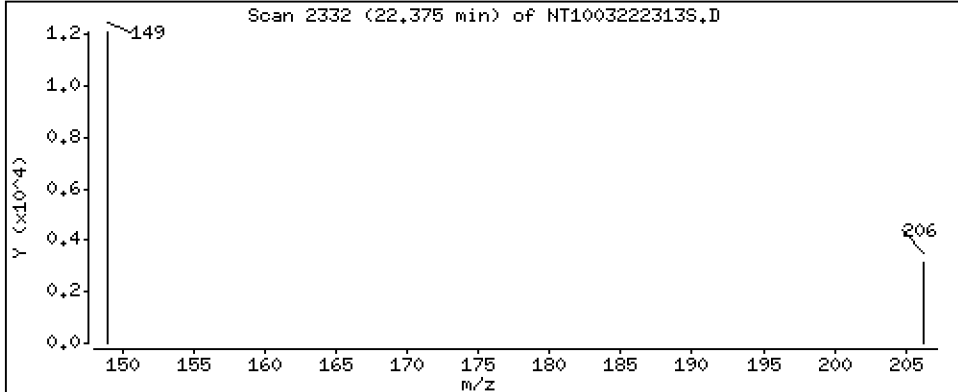
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.1610 ug/L



Date : 23-MAR-2023 00:43

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-04

Volume Injected (uL): 1.0

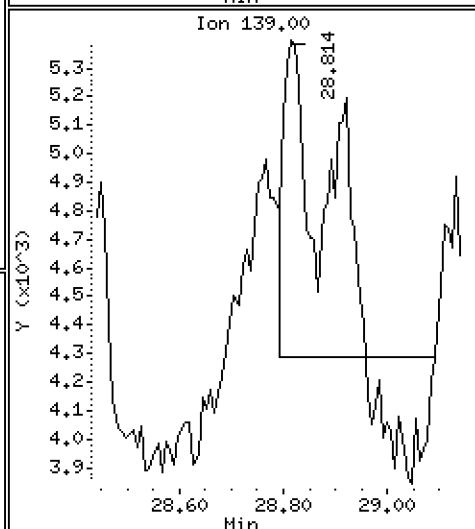
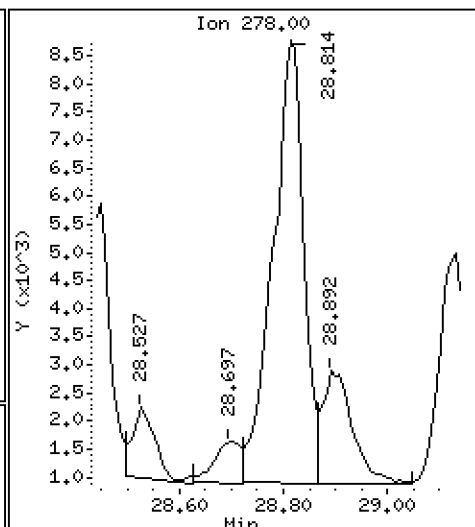
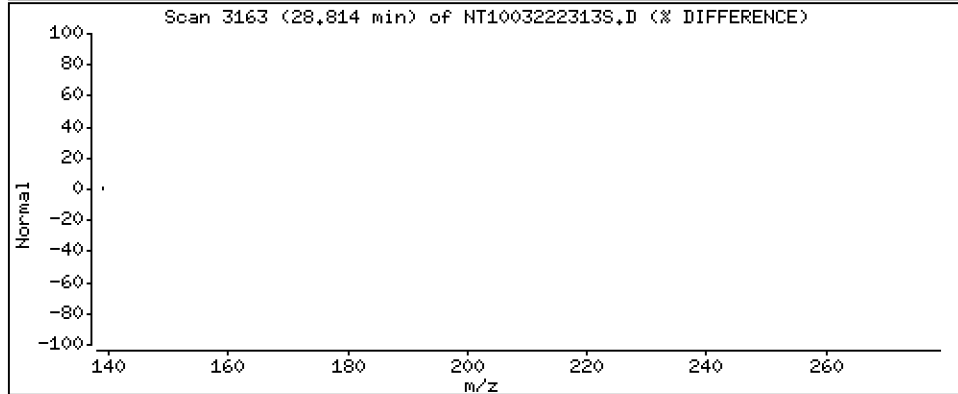
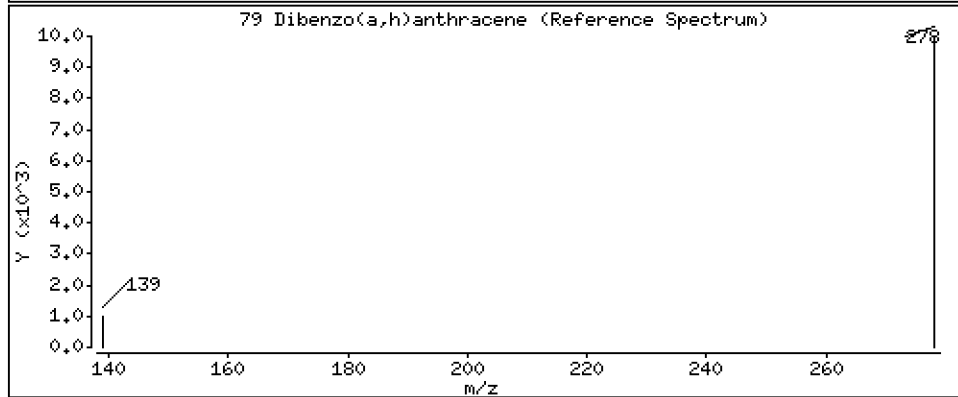
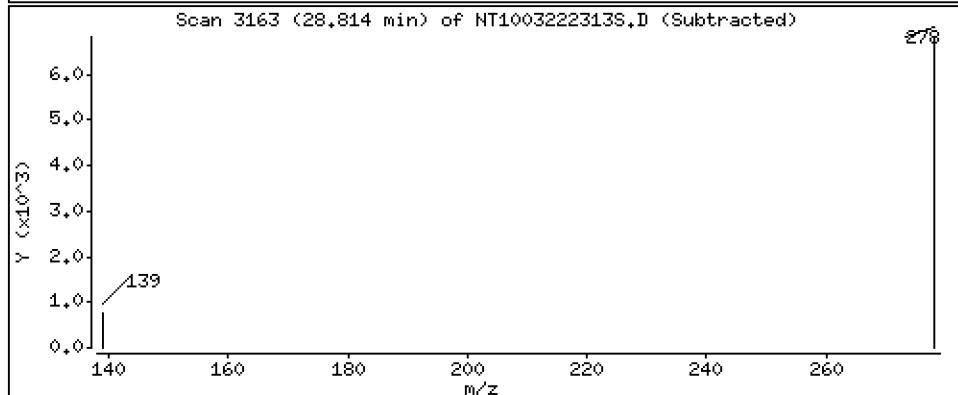
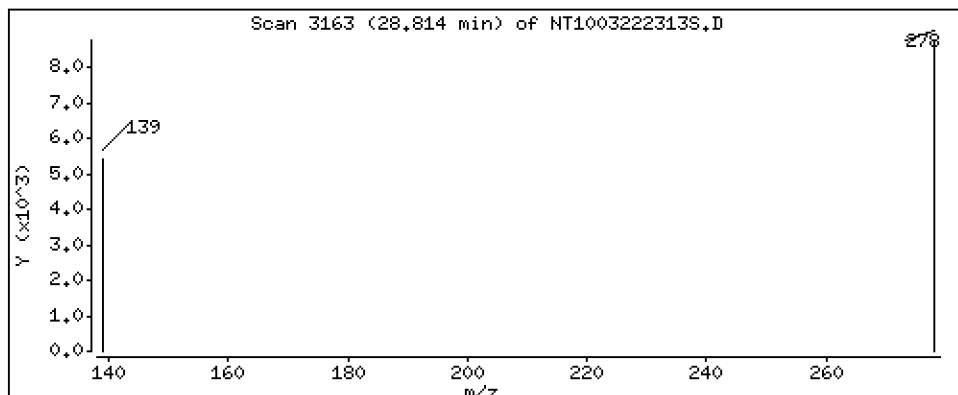
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 0.1371 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222313S.D  
 Lab Smp Id: 23A0179-04  
 Inj Date : 23-MAR-2023 00:43 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : 23A0179-04  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Meth Date : 25-Mar-2023 13:23 yev Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 13  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: ORGDATA102

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT                     | EXP RT         | REL RT | RESPONSE | CONCENTRATIONS |             |
|-------------------------------|-------|-----|------------------------|----------------|--------|----------|----------------|-------------|
|                               |       |     |                        |                |        |          | ON-COLUMN      | FINAL       |
|                               | MASS  |     |                        |                |        |          | (ug/mL)        | ( ug/L)     |
| \$ 1 2-Fluorophenol           | 112   |     | 6.864                  | 6.856 (0.755)  |        | 308374   | 5.58307        | 5.583 (R)   |
| 3 Phenol                      | 94    |     | 8.479                  | 8.471 (0.933)  |        | 340676   | 4.49576        | 4.496       |
| 7 1,3-Dichlorobenzene         | 146   |     | Compound Not Detected. |                |        |          |                |             |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.090                  | 9.090 (1.000)  |        | 182142   | 4.00000        |             |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.113                  | 9.113 (1.003)  |        | 796      | 0.01163        | 0.01163 (M) |
| 11 Benzyl alcohol             | 79    |     | 9.361                  | 9.361 (1.030)  |        | 11728    | 0.26696        | 0.2670 (M)  |
| 12 1,2-Dichlorobenzene        | 146   |     | Compound Not Detected. |                |        |          |                |             |
| 13 2-Methylphenol             | 108   |     | Compound Not Detected. |                |        |          |                |             |
| 15 4-Methylphenol             | 108   |     | 9.858                  | 9.858 (1.085)  |        | 47482    | 0.87026        | 0.8703      |
| 16 N-Nitroso-di-n-propylamine | 70    |     | Compound Not Detected. |                |        |          |                |             |
| 22 2,4-Dimethylphenol         | 107   |     | 10.906                 | 10.897 (0.942) |        | 827      | 0.01421        | 0.01421     |
| 24 Benzoic acid               | 105   |     | 11.008                 | 11.025 (0.951) |        | 19923    | 0.62488        | 0.6249      |
| 26 1,2,4-Trichlorobenzene     | 180   |     | Compound Not Detected. |                |        |          |                |             |
| * 27 Naphthalene-d8           | 136   |     | 11.577                 | 11.569 (1.000) |        | 673218   | 4.00000        |             |
| 30 Hexachlorobutadiene        | 225   |     | Compound Not Detected. |                |        |          |                |             |
| 39 Dimethylphthalate          | 163   |     | 14.711                 | 14.703 (0.968) |        | 5905     | 0.05728        | 0.05728     |
| * 42 Acenaphthene-d10         | 162   |     | 15.198                 | 15.198 (1.000) |        | 326672   | 4.00000        |             |
| 50 Diethylphthalate           | 149   |     | 16.172                 | 16.165 (1.064) |        | 17042    | 0.15958        | 0.1596      |
| 54 N-Nitrosodiphenylamine     | 169   |     | Compound Not Detected. |                |        |          |                |             |
| 57 Hexachlorobenzene          | 284   |     | Compound Not Detected. |                |        |          |                |             |

| Compounds                 | QUANT SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|
|                           |           |                        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>( ug/L) |
| 58 Pentachlorophenol      | 266       | 17.995                 | 17.987 | (0.986) | 412      | 0.01765              | 0.01765          |
| * 59 Phenanthrene-d10     | 188       | 18.258                 | 18.250 | (1.000) | 703974   | 4.00000              |                  |
| \$ 66 Terphenyl-d14       | 244       | 21.438                 | 21.422 | (0.918) | 545254   | 5.31719              | 5.317(R)         |
| 67 Butylbenzylphthalate   | 149       | 22.375                 | 22.367 | (0.958) | 13337    | 0.16100              | 0.1610           |
| * 69 Chrysene-d12         | 240       | 23.358                 | 23.343 | (1.000) | 629362   | 4.00000              |                  |
| * 77 Perylene-d12         | 264       | 26.045                 | 26.029 | (1.000) | 740470   | 4.00000              |                  |
| 79 Dibenzo(a,h)anthracene | 278       | 28.814                 | 28.790 | (1.106) | 33310    | 0.13711              | 0.1371           |
| 90 N-Nitrosodimethylamine | 74        | Compound Not Detected. |        |         |          |                      |                  |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT1003222313S.D  
 Lab Smp Id: 23A0179-04  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Misc Info:

Calibration Date: 22-MAR-2023  
 Calibration Time: 18:20  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 135191   | 67596      | 270382  | 182142 | 34.73 |
| 27 Naphthalene-d8   | 487226   | 243613     | 974452  | 673218 | 38.17 |
| 42 Acenaphthene-d10 | 246588   | 123294     | 493176  | 326672 | 32.48 |
| 59 Phenanthrene-d10 | 479352   | 239676     | 958704  | 703974 | 46.86 |
| 69 Chrysene-d12     | 439791   | 219896     | 879582  | 629362 | 43.10 |
| 77 Perylene-d12     | 505700   | 252850     | 1011400 | 740470 | 46.42 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.09     | 8.59     | 9.59  | 9.09   | 0.00  |
| 27 Naphthalene-d8   | 11.57    | 11.07    | 12.07 | 11.58  | 0.07  |
| 42 Acenaphthene-d10 | 15.20    | 14.70    | 15.70 | 15.20  | 0.00  |
| 59 Phenanthrene-d10 | 18.25    | 17.75    | 18.75 | 18.26  | 0.04  |
| 69 Chrysene-d12     | 23.34    | 22.84    | 23.84 | 23.36  | 0.07  |
| 77 Perylene-d12     | 26.03    | 25.53    | 26.53 | 26.05  | 0.06  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222313S.D

Lab ID: 23A0179-04

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 23-MAR-2023 00:43

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

---

NONE

RRT check based on Ccal File: SIM.b/NT1003222303S.D

On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

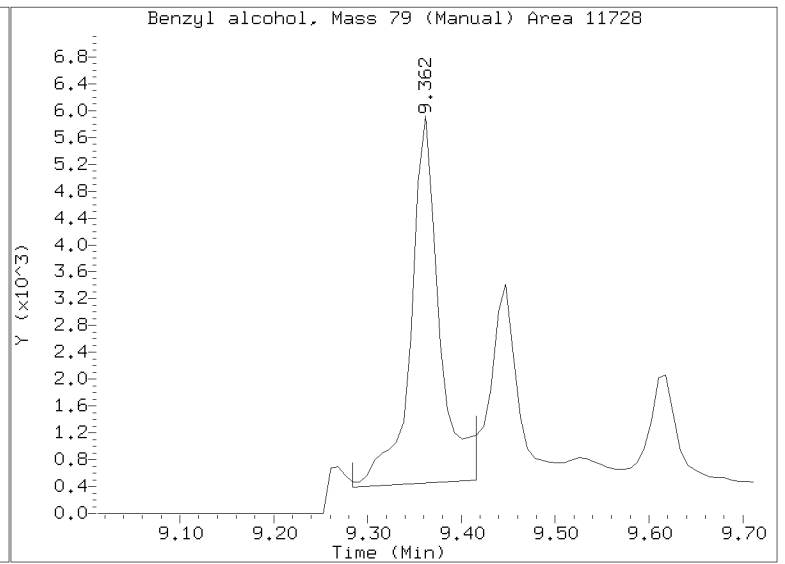
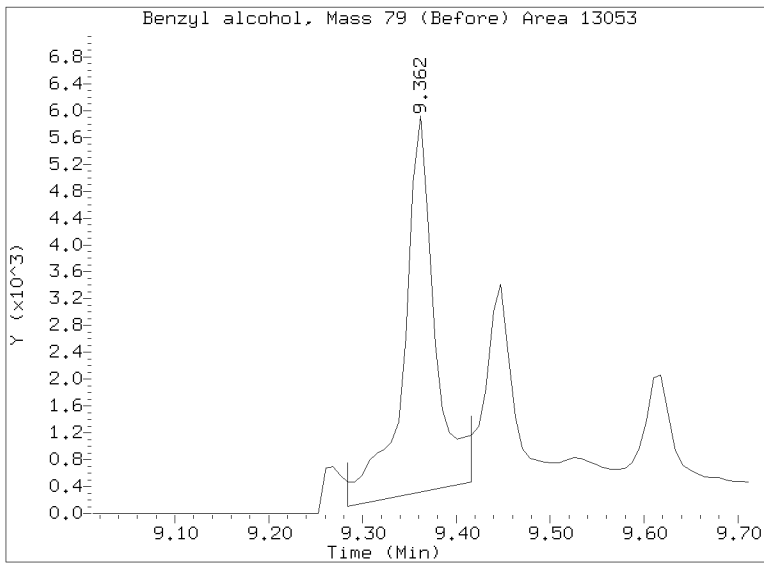
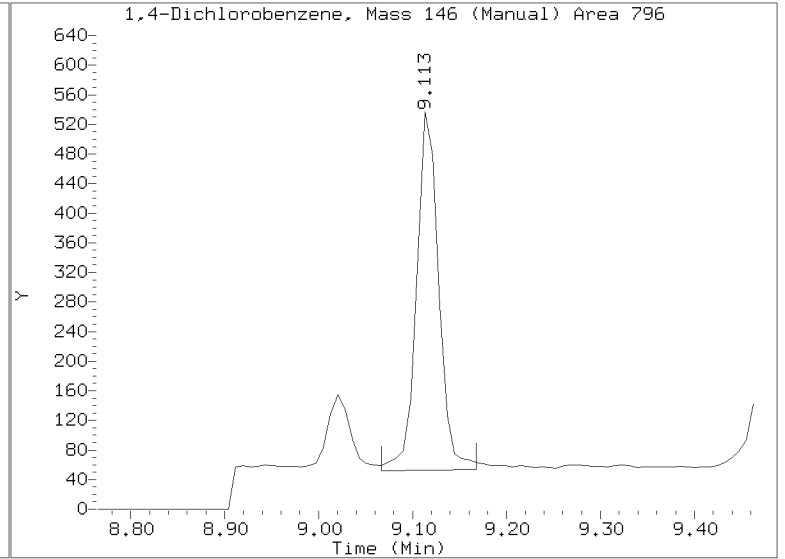
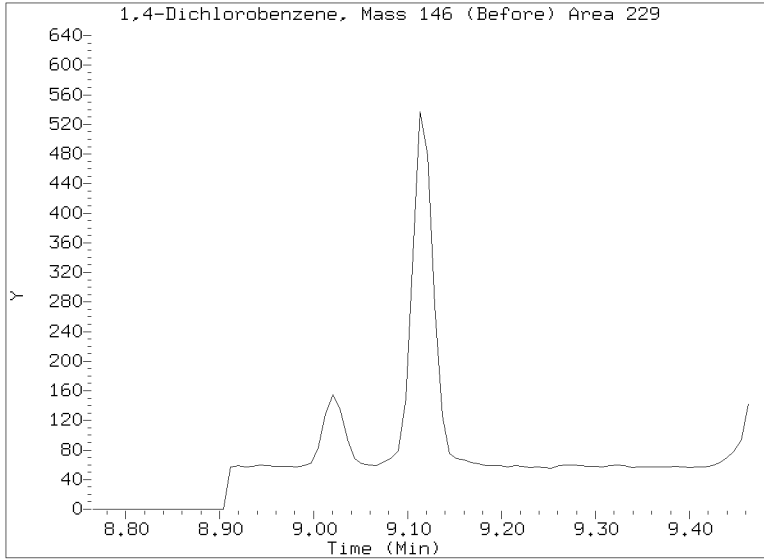
Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*



# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222313S.D  
Injection Date: 23-MAR-2023 00:43  
Lab ID:23A0179-04 Client ID:  
Report Date: 03/25/2023 13:23





Form I  
ORGANIC ANALYSIS DATA SHEET  
EPA 8270E-SIM  
SIM SVOC Organics (Dual scan list)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-05RE1 A

SDG: 23A0179

Sampled: 01/10/23 09:35

Prepared: 03/17/23 14:20

File ID: NT1003222314S.D

% Solids: 67.40

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 01:21

Batch: BLC0442

Sequence: SLC0407

Initial/Final: 15.09 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00049

Cleanups: GPC

| CAS NO.  | COMPOUND               | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|------------------------|----------|----------------------|---|------|------|
| 106-46-7 | 1,4-Dichlorobenzene    | 1        | 0.6                  | J | 0.6  | 4.9  |
| 95-50-1  | 1,2-Dichlorobenzene    | 1        | 4.9                  | U | 0.7  | 4.9  |
| 100-51-6 | Benzyl Alcohol         | 1        | 13.6                 | J | 2.4  | 19.7 |
| 65-85-0  | Benzoic acid           | 1        | 48.2                 | J | 13.2 | 98.3 |
| 105-67-9 | 2,4-Dimethylphenol     | 1        | 19.7                 | U | 2.1  | 19.7 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1        | 4.9                  | U | 2.6  | 4.9  |
| 86-30-6  | N-Nitrosodiphenylamine | 1        | 4.9                  | U | 1.3  | 4.9  |
| 87-86-5  | Pentachlorophenol      | 1        | 8.3                  | J | 2.1  | 19.7 |

| SURROGATES      | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|-----------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol  | 737.42                | 579                   | 78.5  | 27 - 120  |   |
| p-Terphenyl-d14 | 491.61                | 504                   | 103   | 37 - 120  |   |

Data File: \\target\share\chem3\nt10.1\20230322.16\SIM.B\NT1003222314S.D

Date: 23-MAR-2023 01:21

Client ID:

Sample Info: 23A0179-05

Volume Injected (uL): 1.0

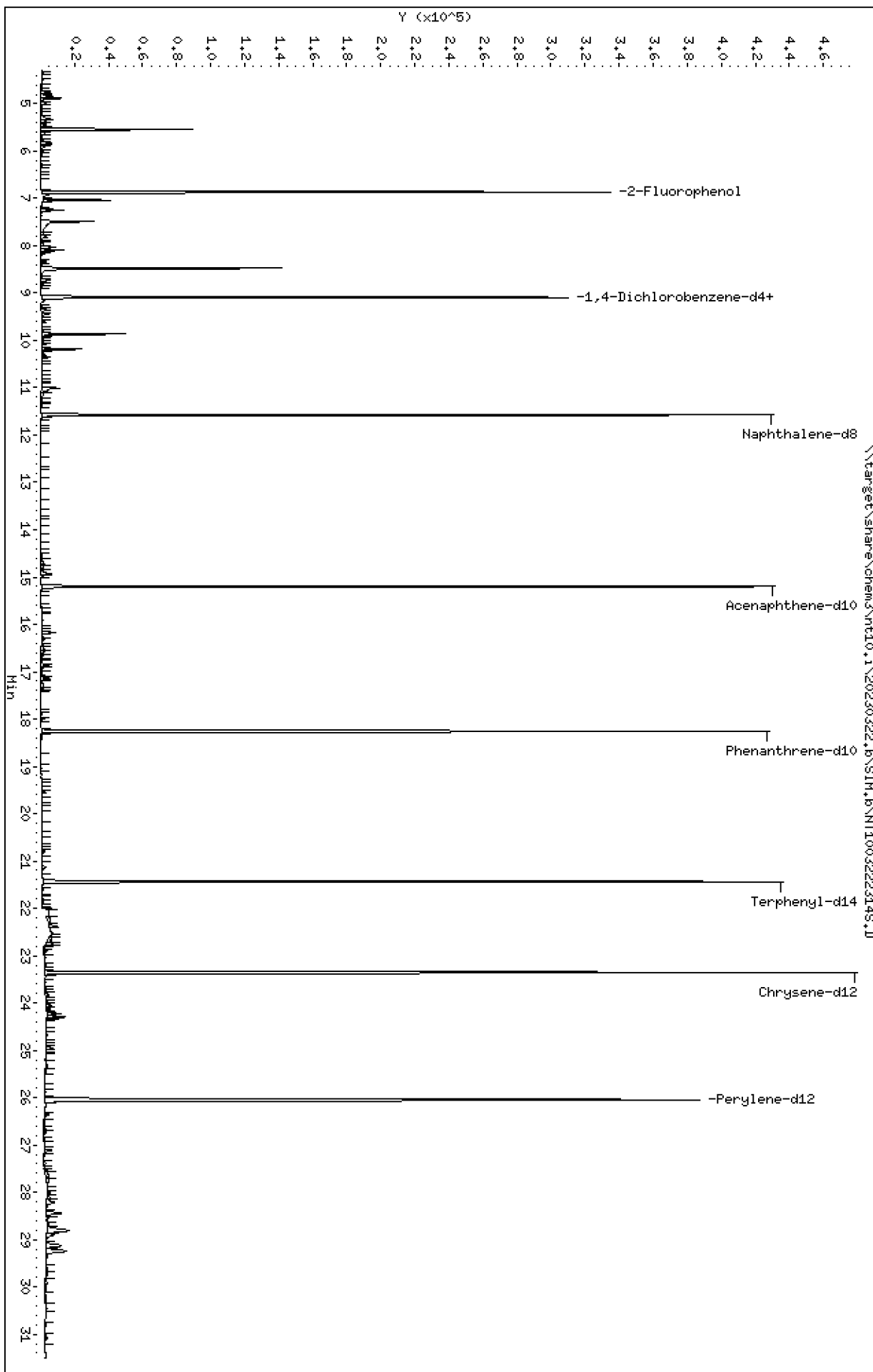
Column phase: ZB-5msi

Instrument: nt10.1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05

Volume Injected (uL): 1.0

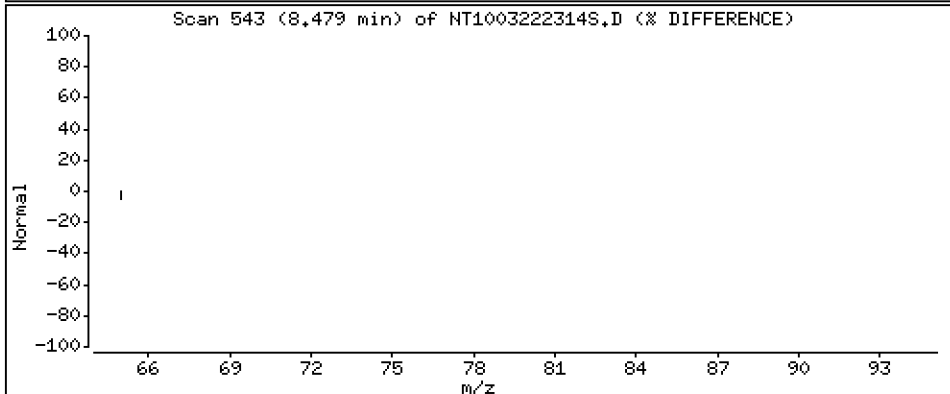
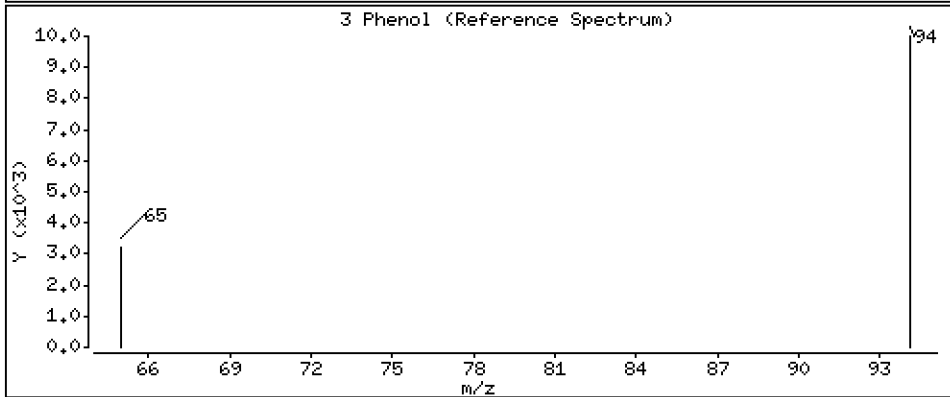
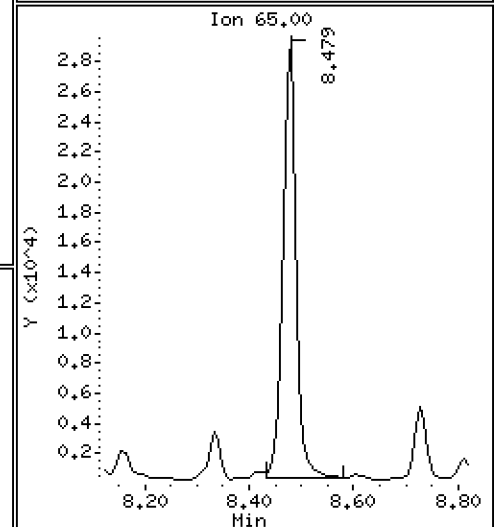
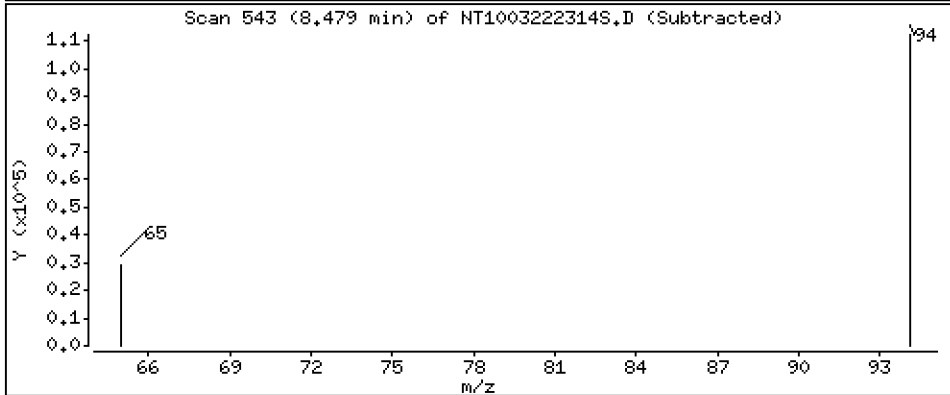
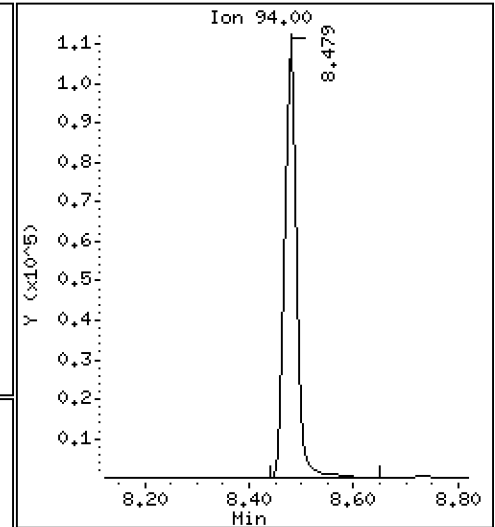
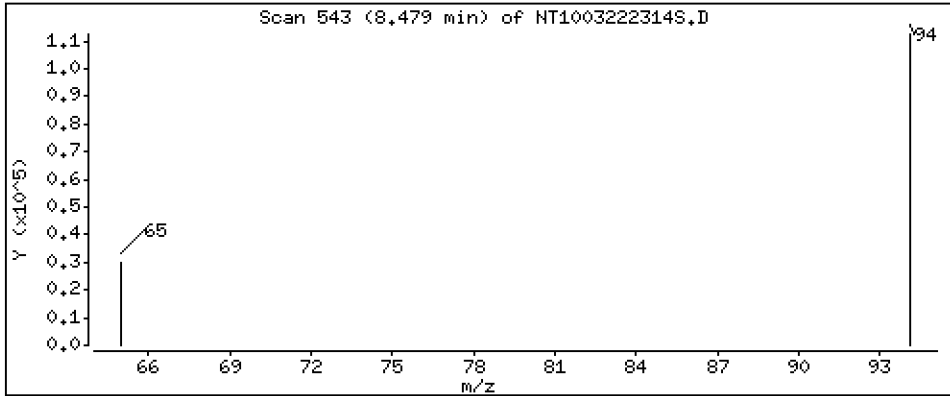
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 2,148 ug/L



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05

Volume Injected (uL): 1.0

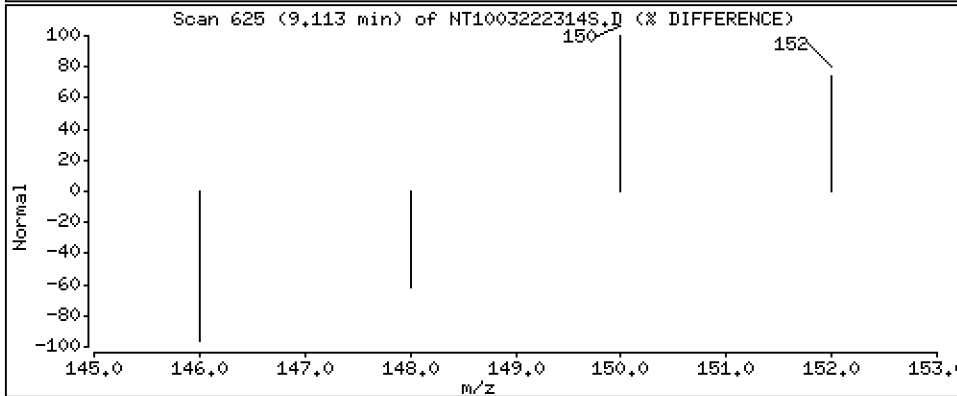
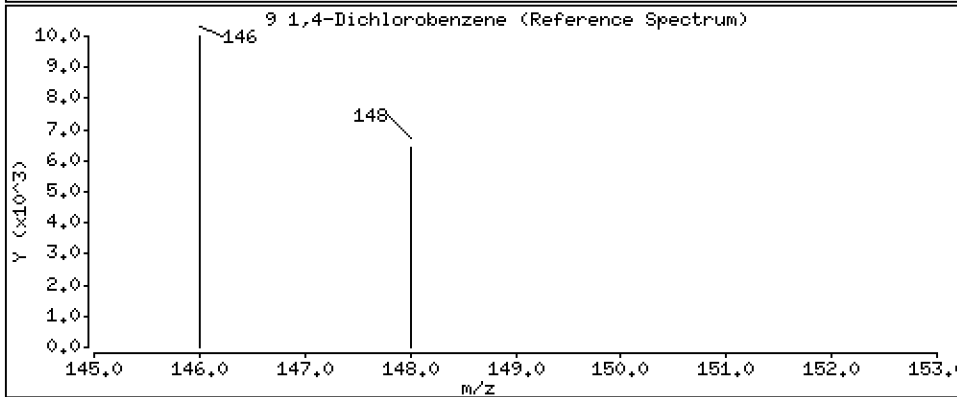
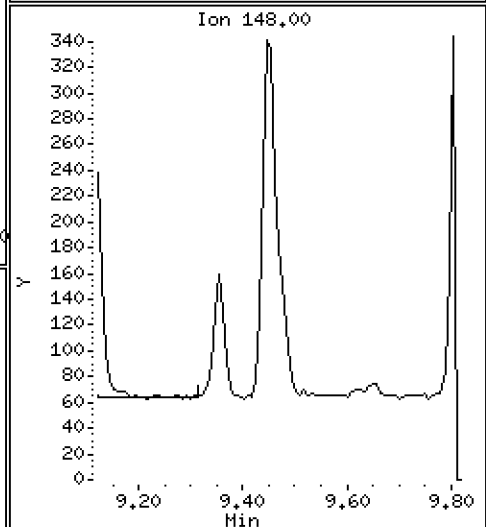
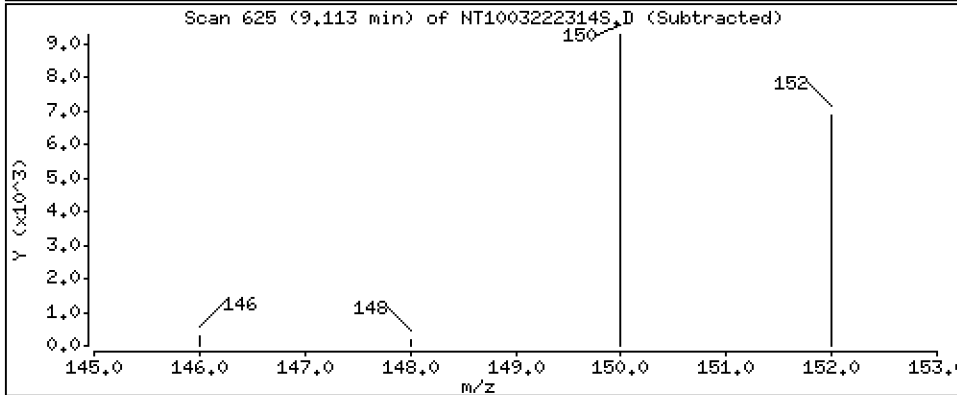
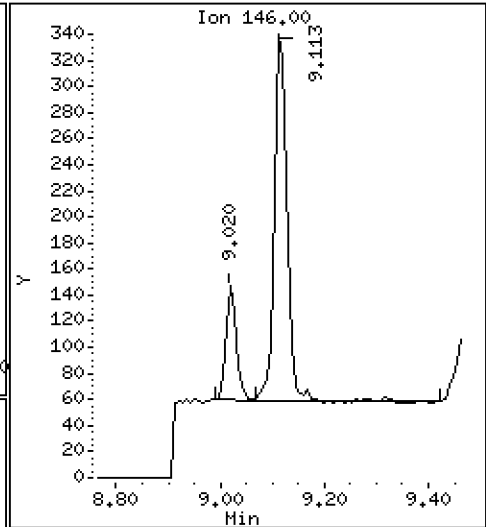
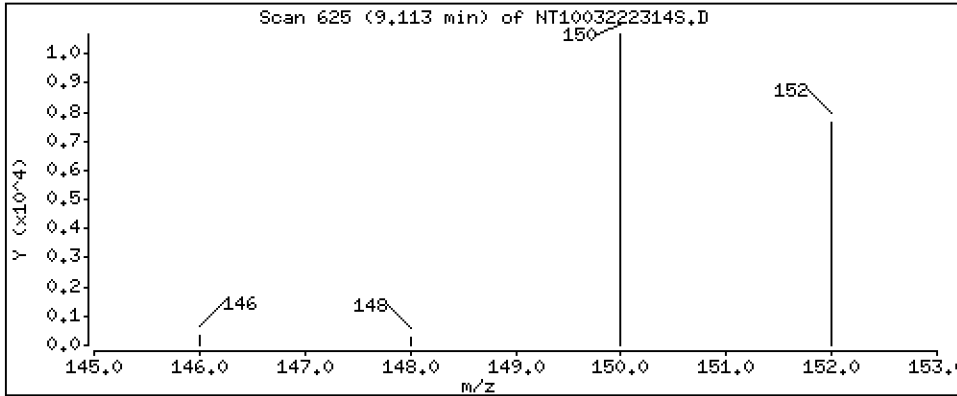
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,006305 ug/L



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05

Volume Injected (uL): 1.0

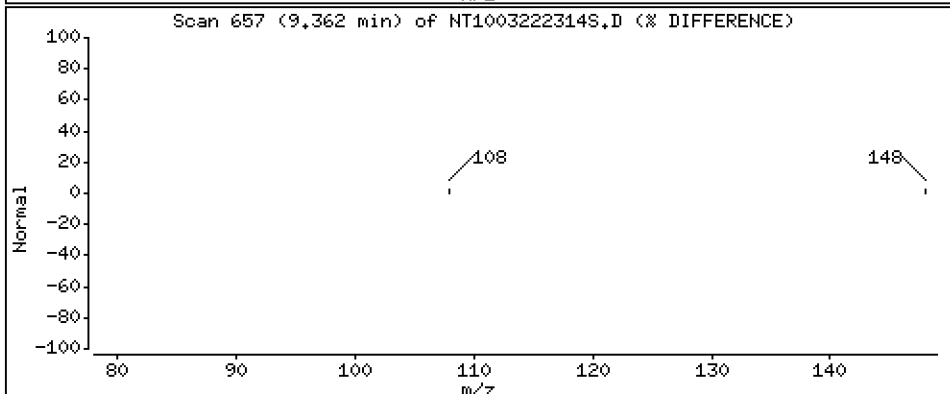
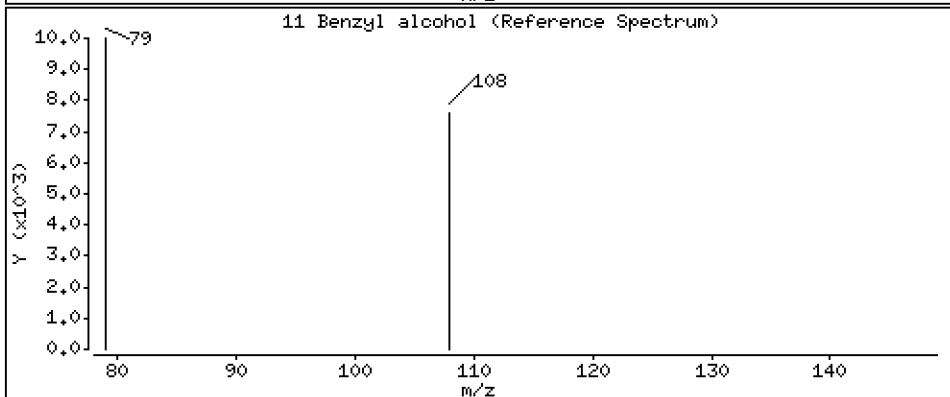
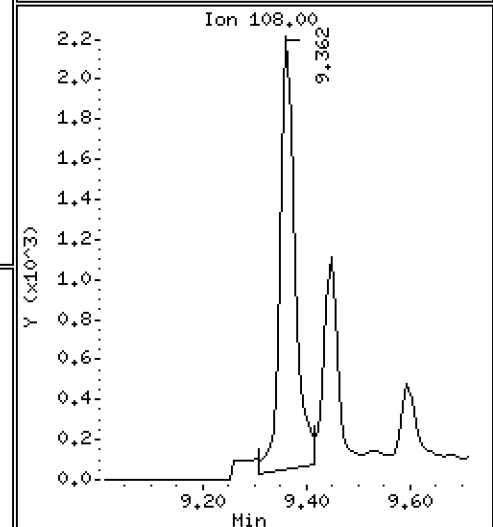
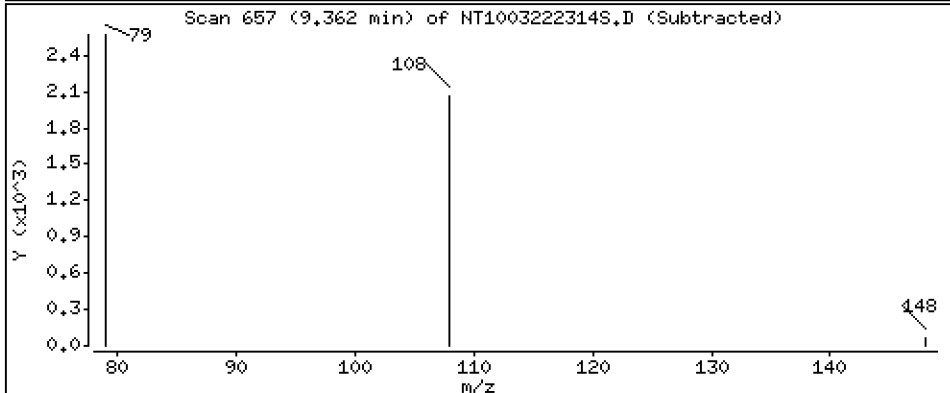
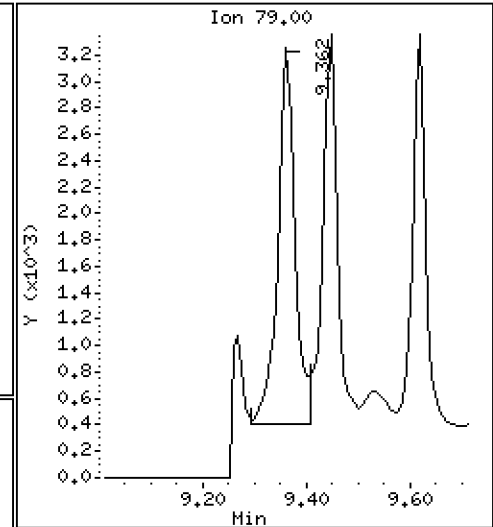
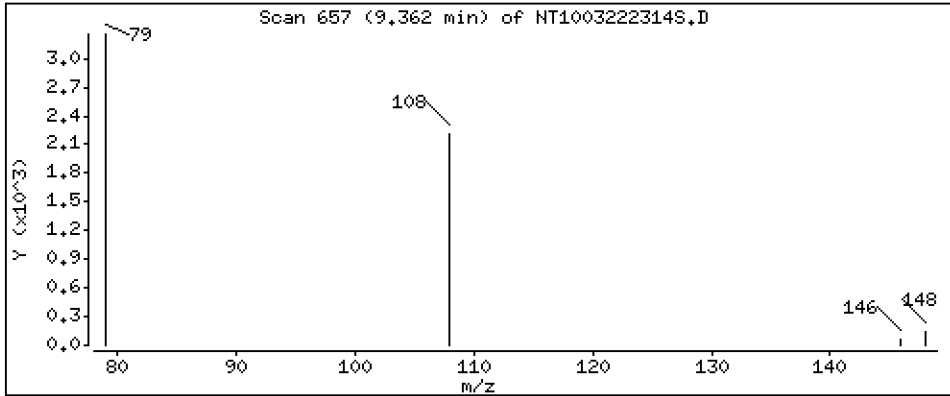
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 0,1381 ug/L



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05

Volume Injected (uL): 1.0

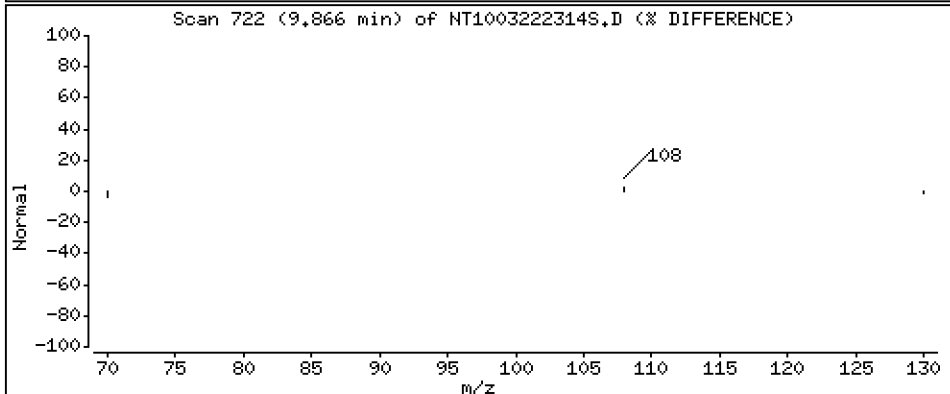
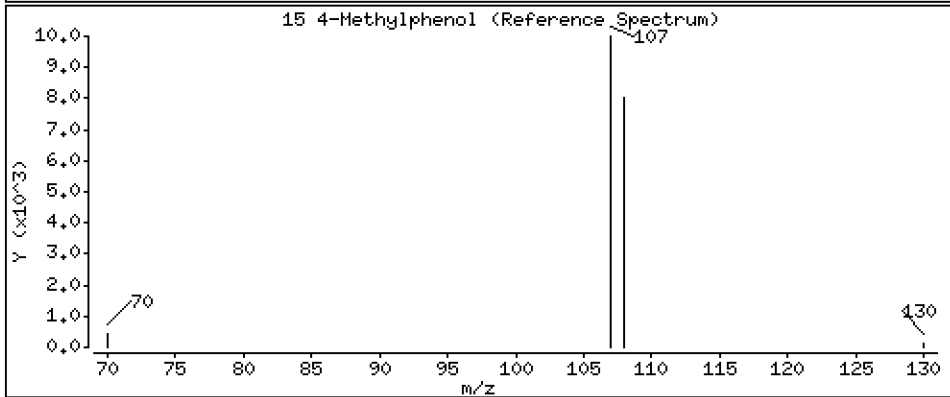
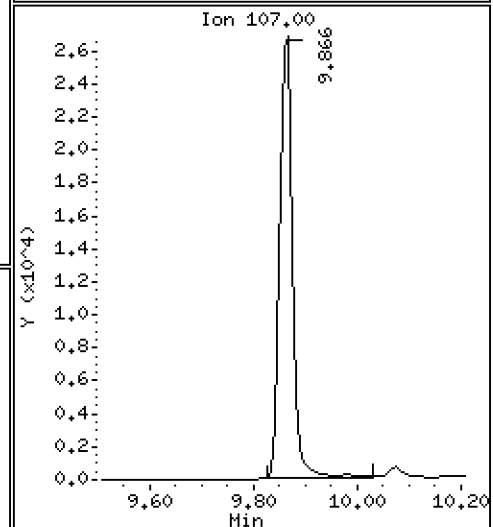
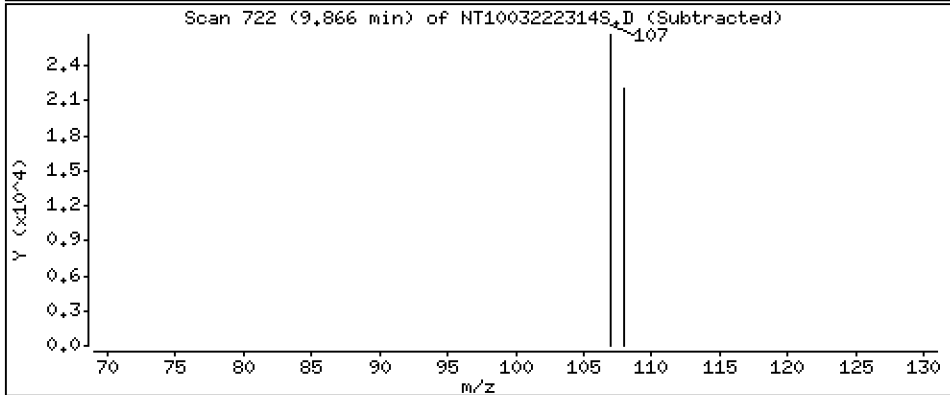
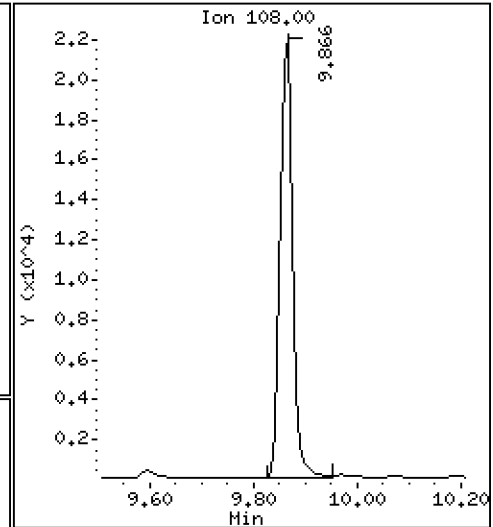
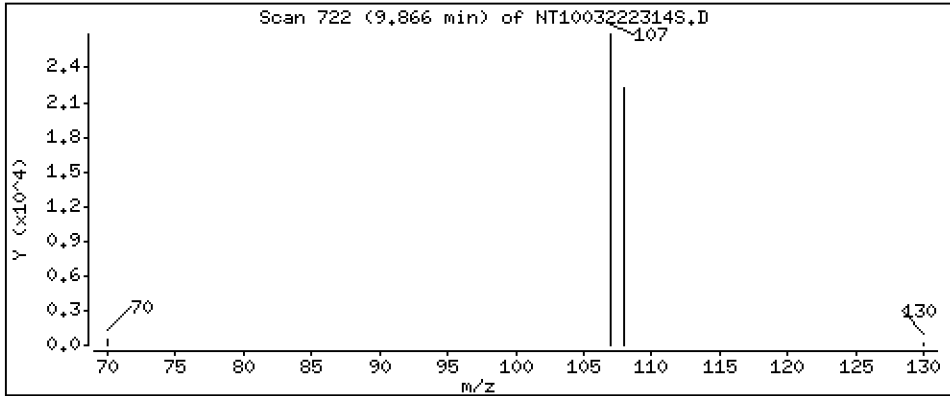
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.6181 ug/L



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05

Volume Injected (uL): 1.0

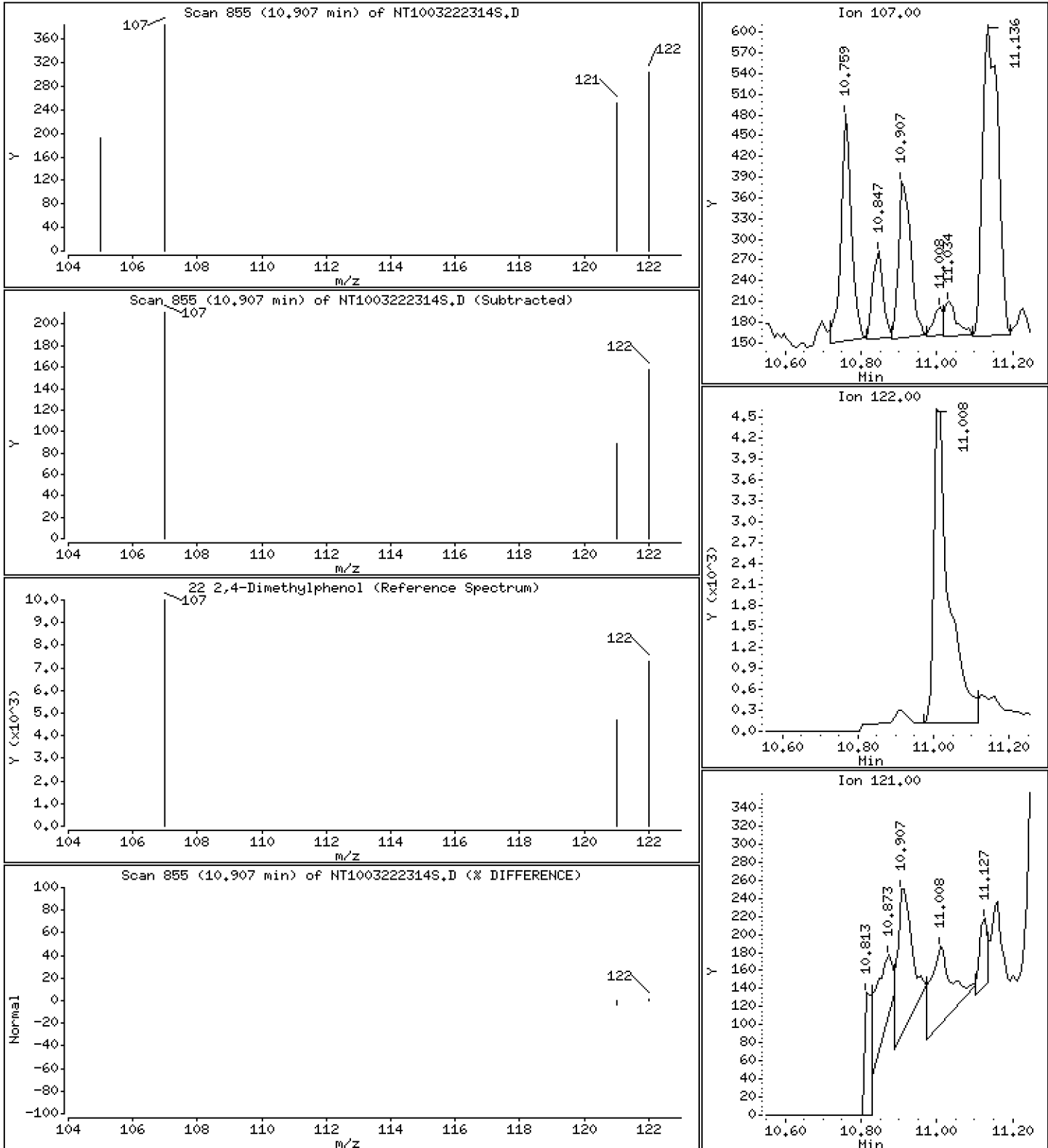
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 0.008703 ug/L





Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05

Volume Injected (uL): 1.0

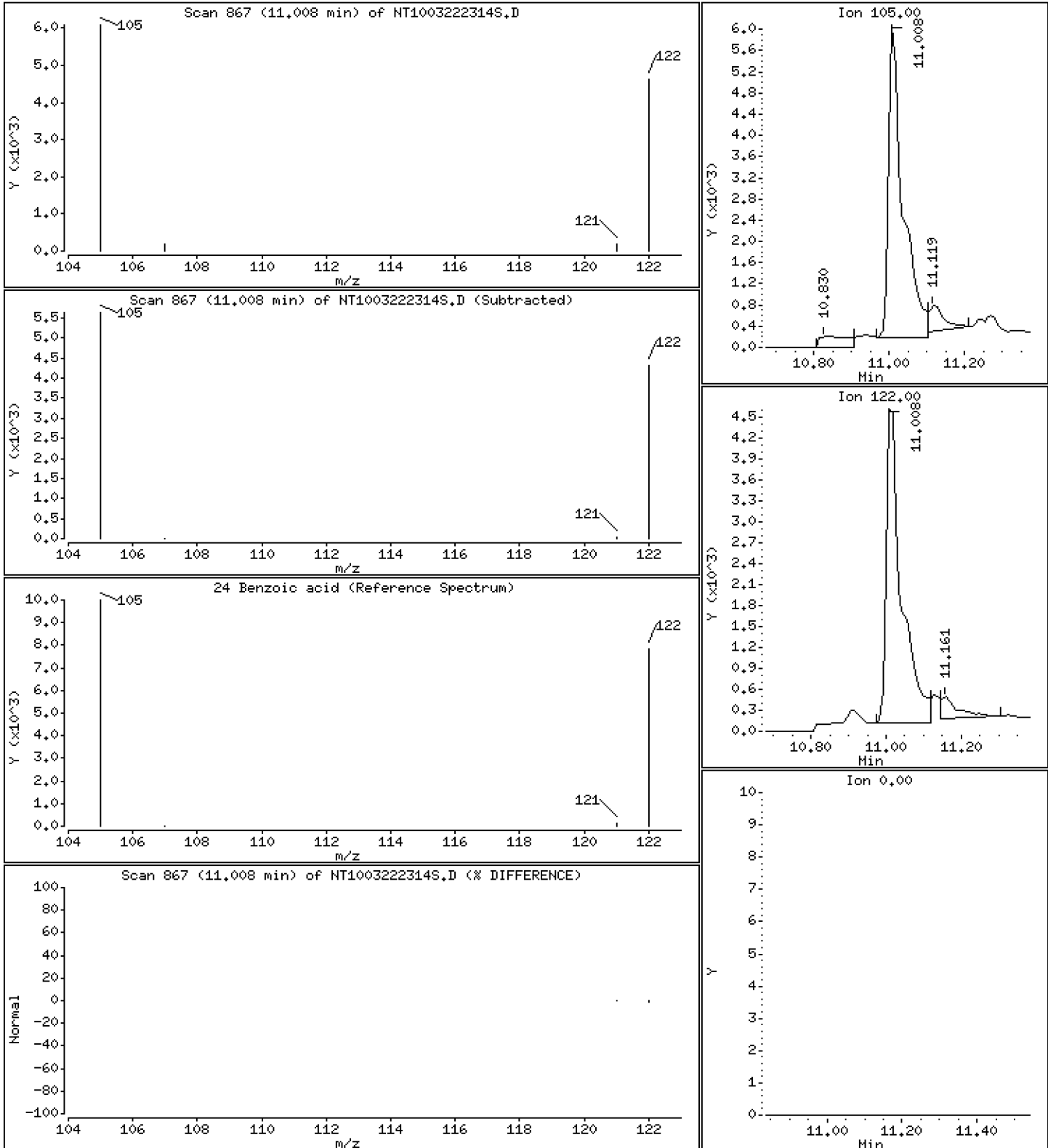
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.4899 ug/L



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05

Volume Injected (uL): 1.0

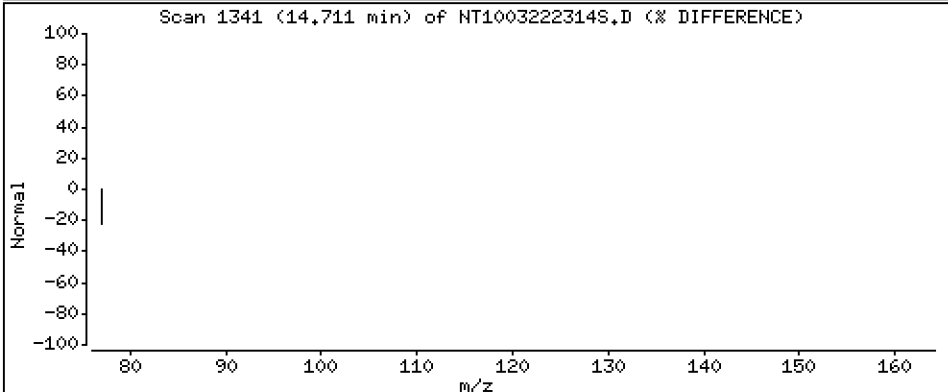
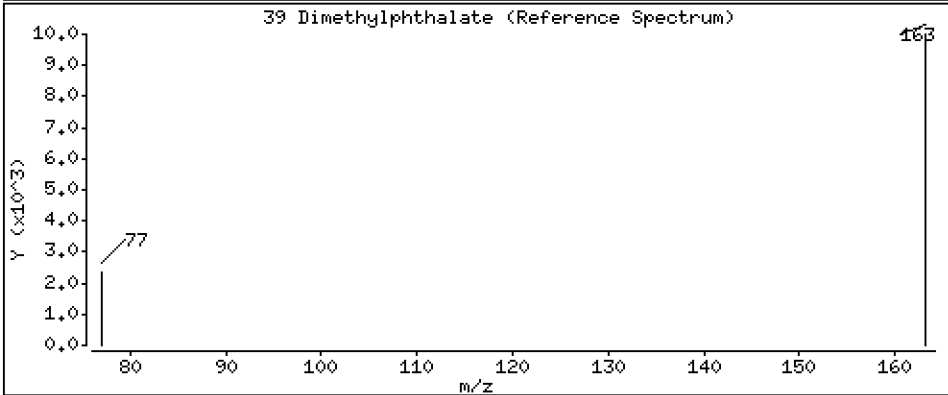
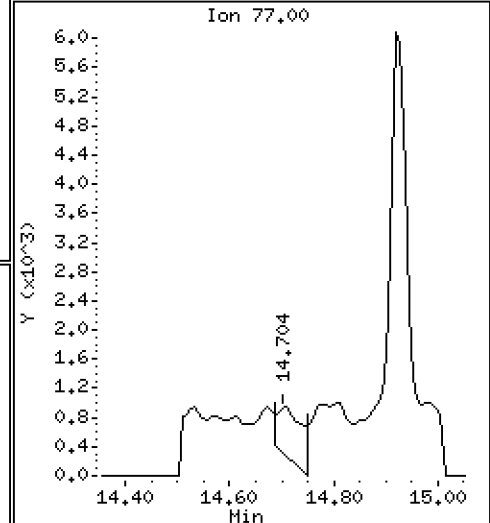
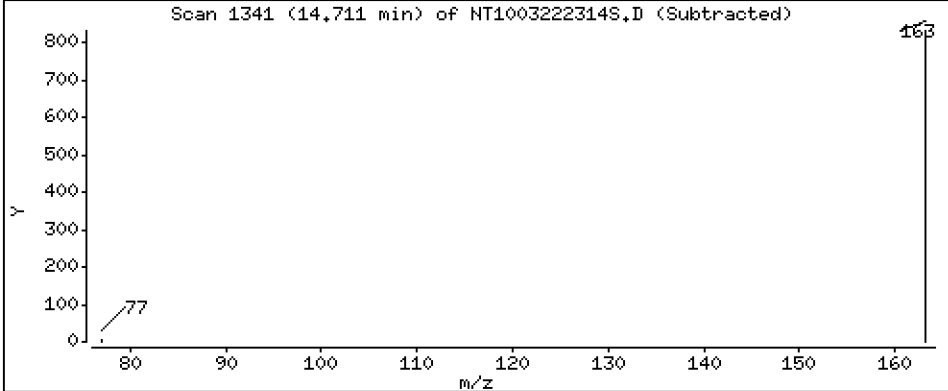
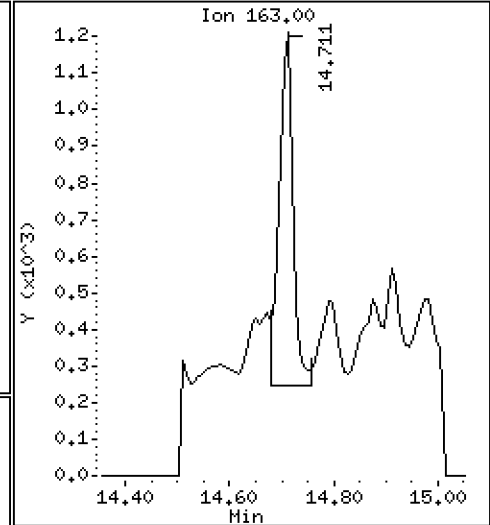
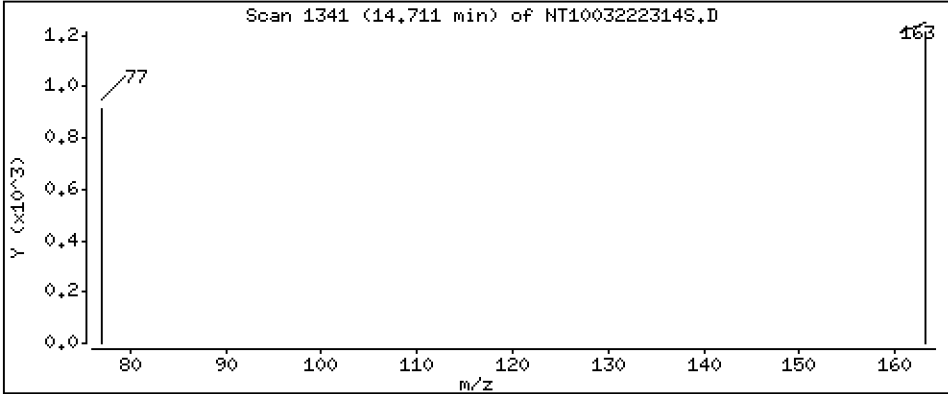
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,01672 ug/L



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05

Volume Injected (uL): 1.0

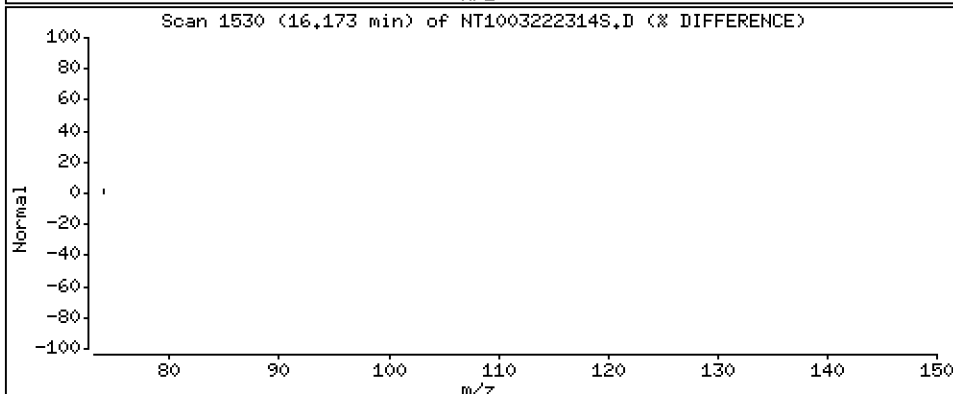
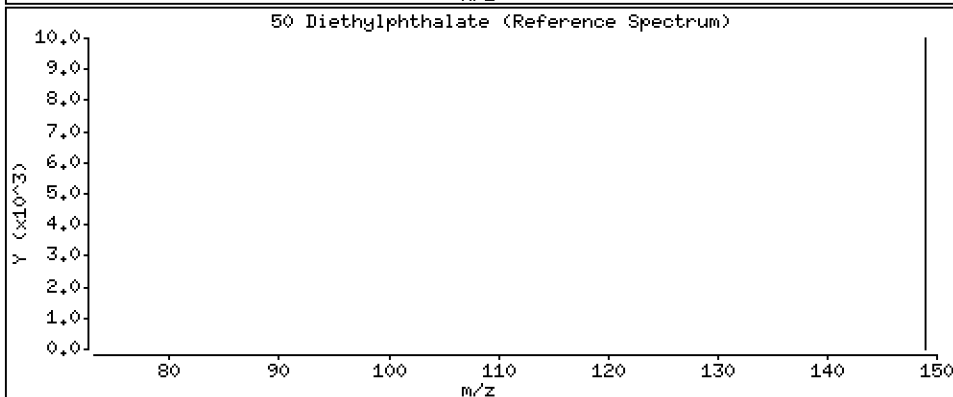
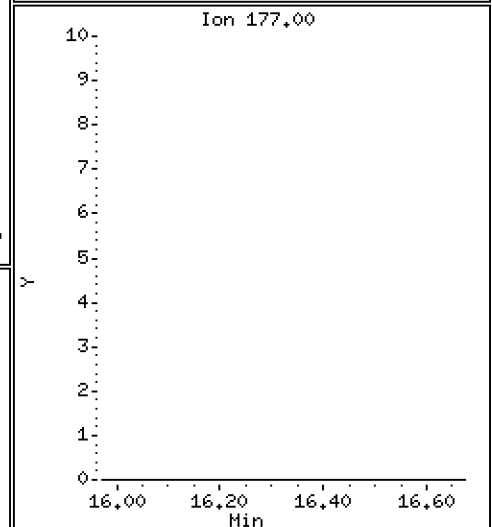
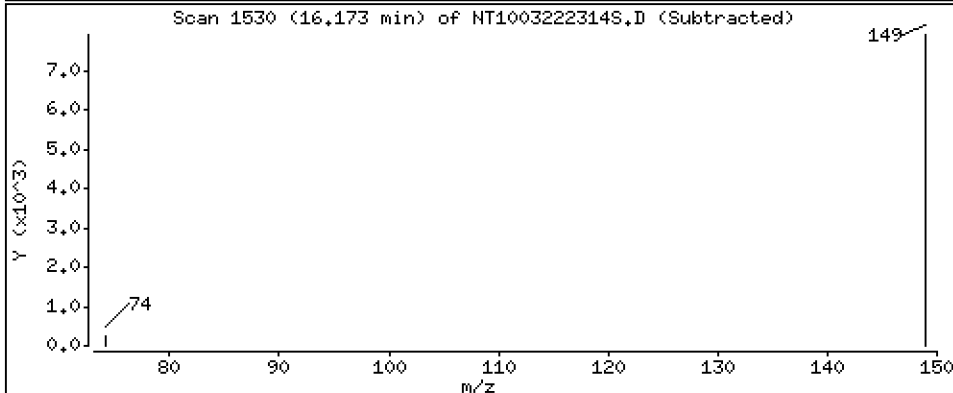
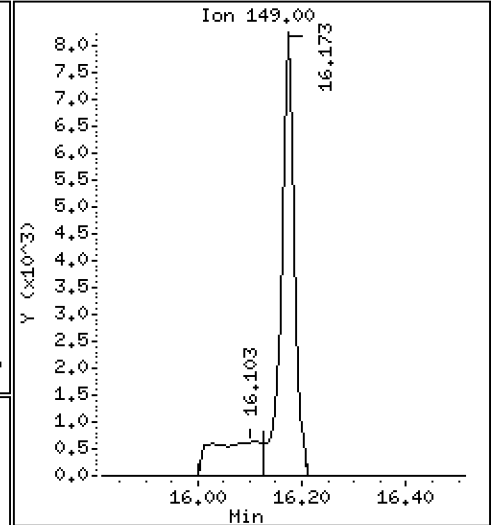
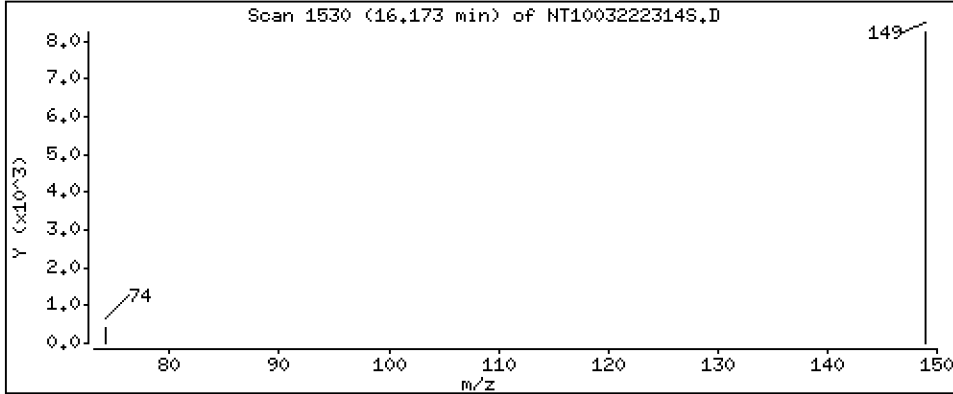
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,1346 ug/L



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05

Volume Injected (uL): 1.0

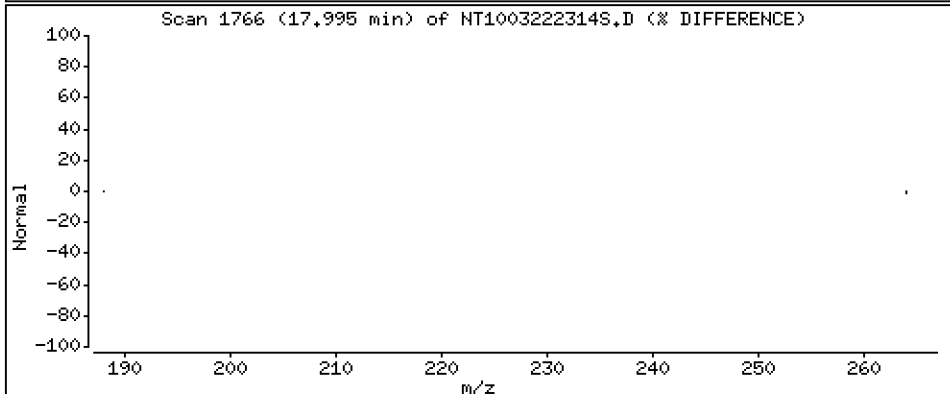
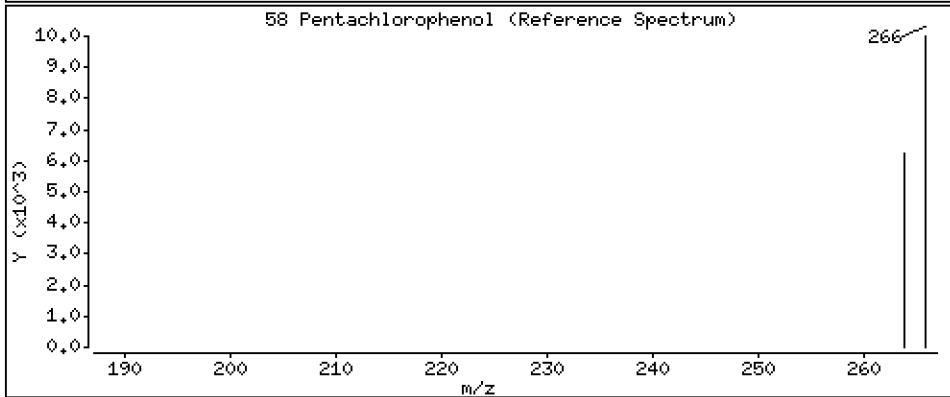
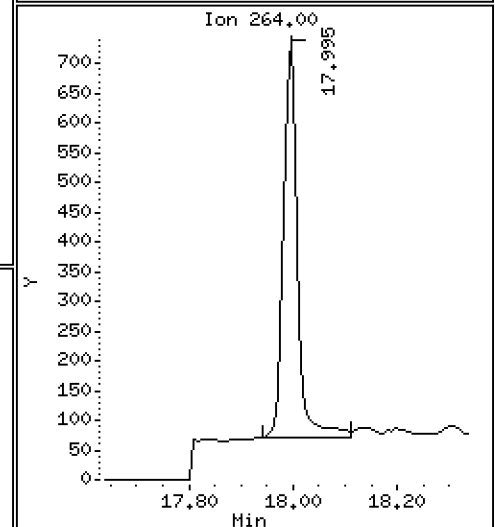
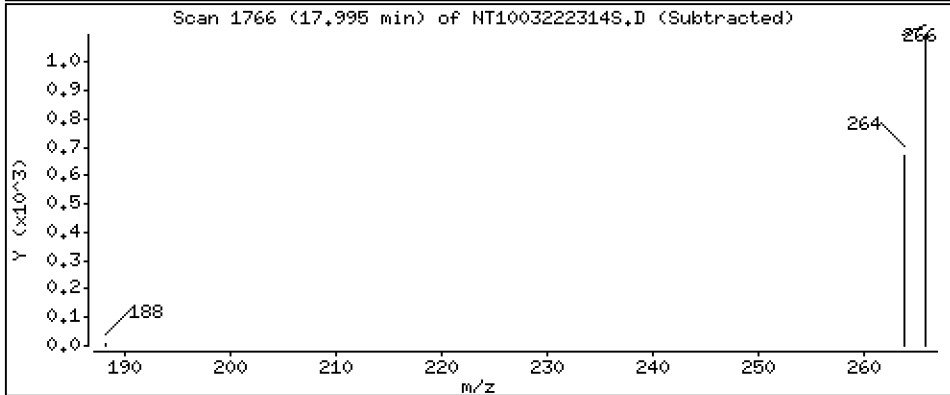
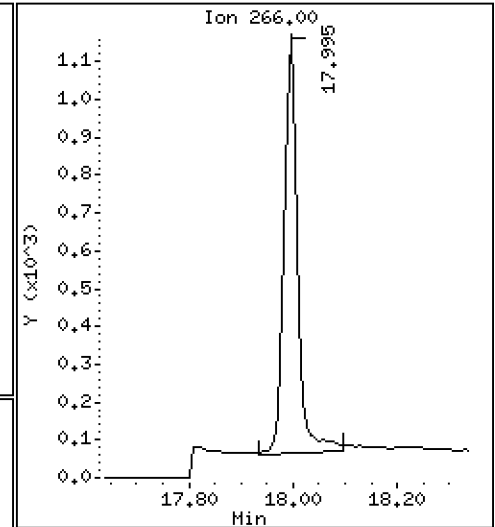
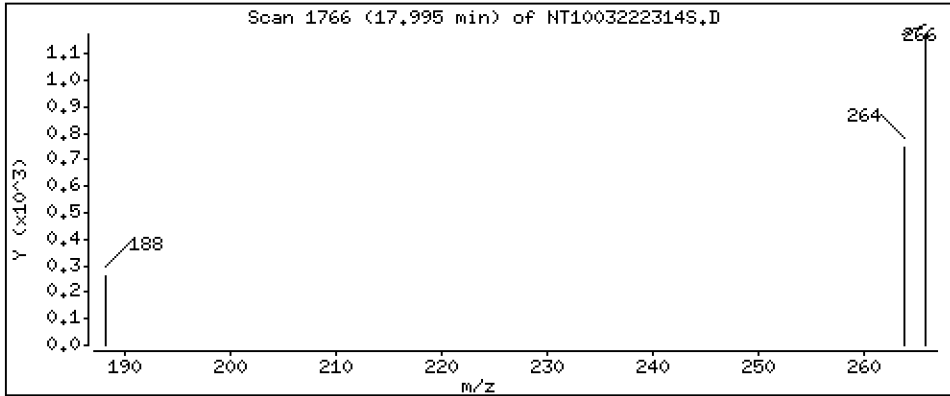
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

58 Pentachlorophenol

Concentration: 0.08415 ug/L



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05

Volume Injected (uL): 1.0

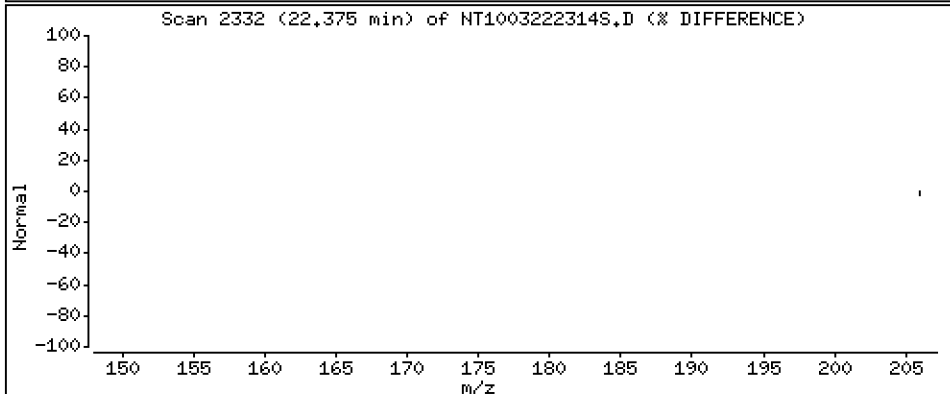
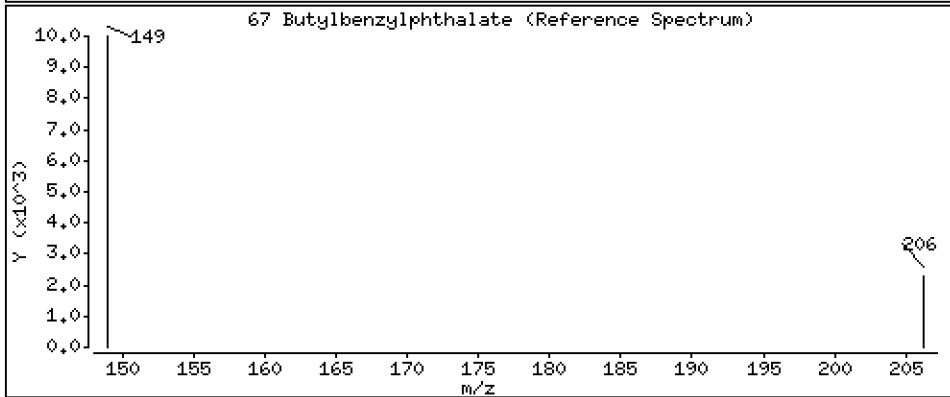
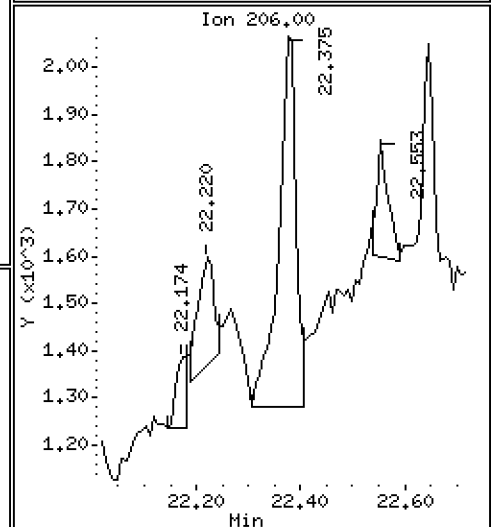
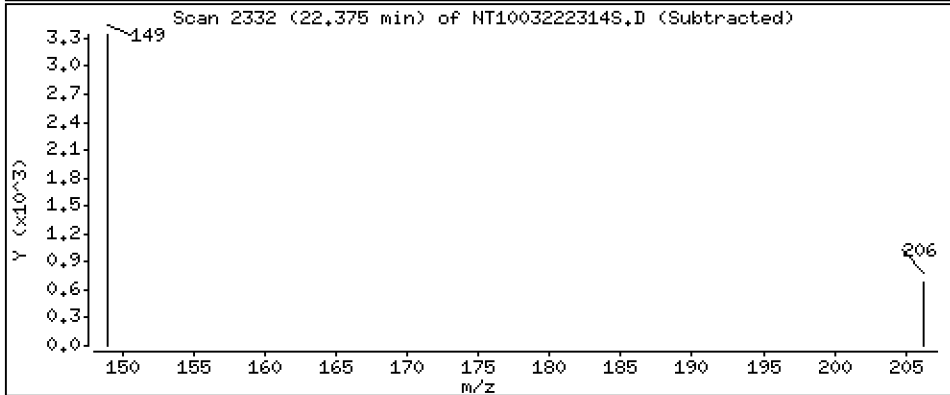
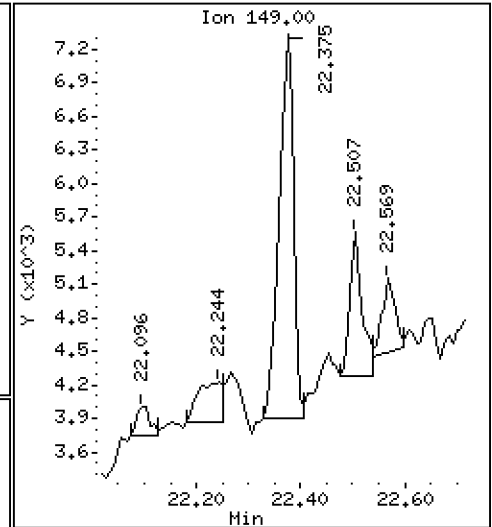
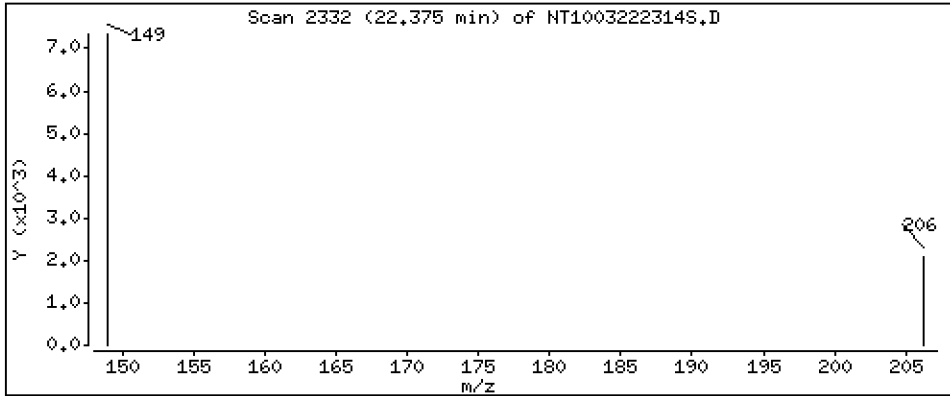
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.07681 ug/L



Date : 23-MAR-2023 01:21

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-05

Volume Injected (uL): 1.0

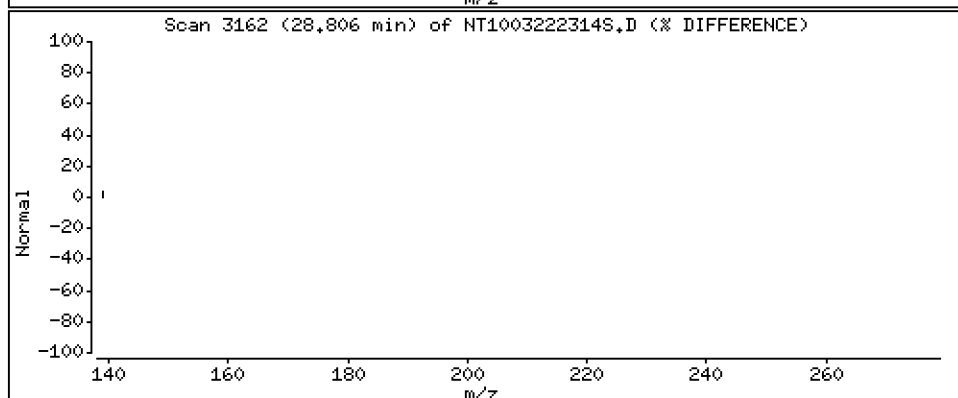
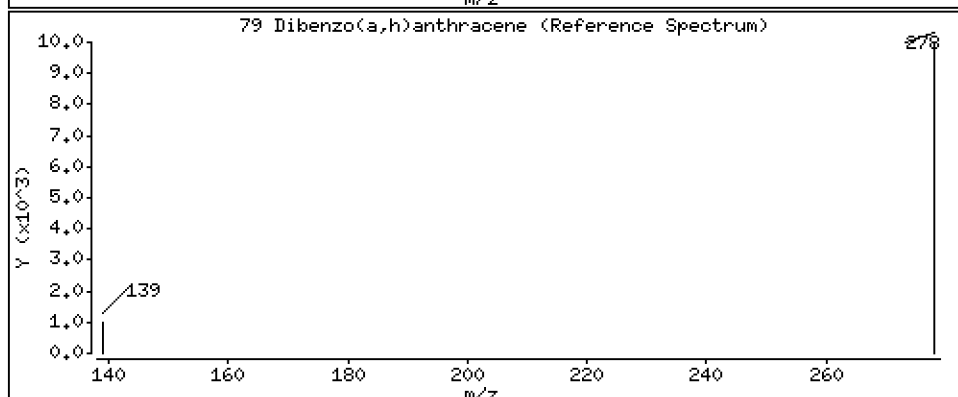
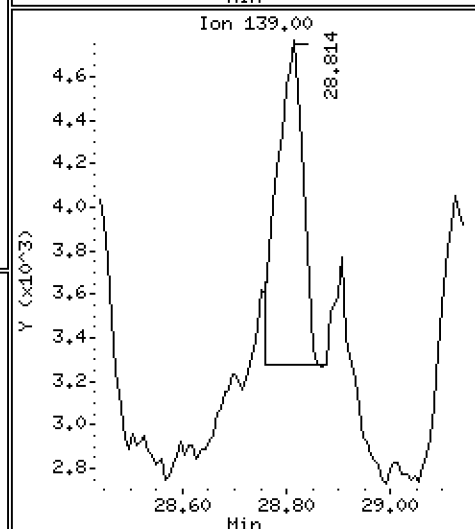
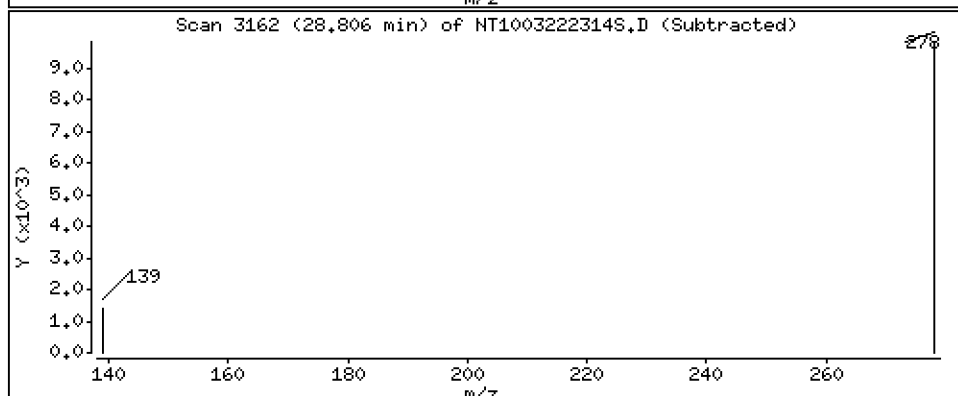
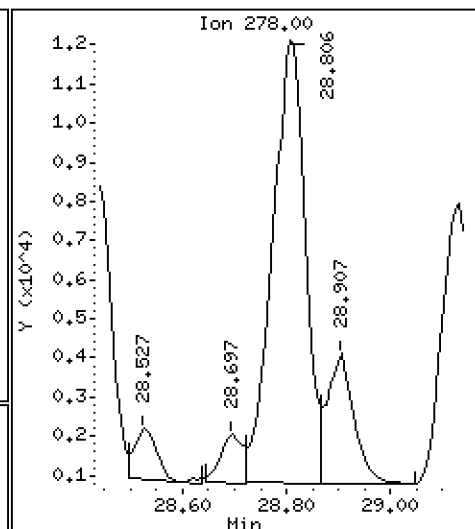
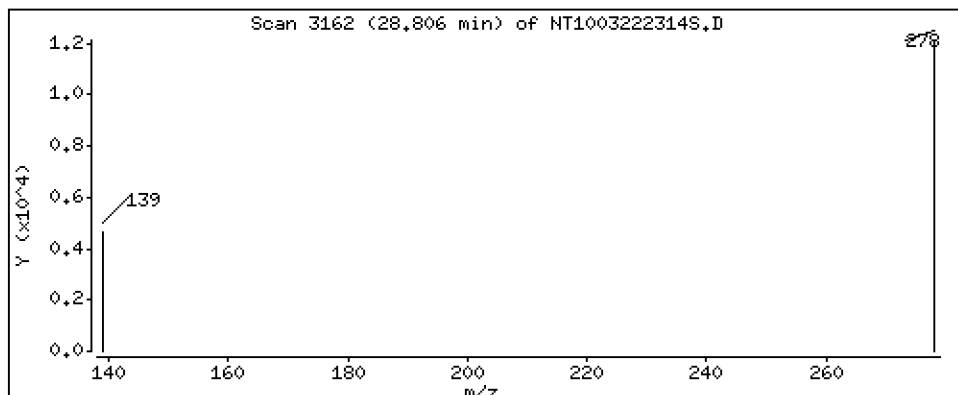
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2101 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222314S.D  
 Lab Smp Id: 23A0179-05  
 Inj Date : 23-MAR-2023 01:21 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : 23A0179-05  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Meth Date : 25-Mar-2023 13:23 yev Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 14  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: ORGDATA102

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT                     | EXP RT         | REL RT | RESPONSE | CONCENTRATIONS |             |
|-------------------------------|-------|-----|------------------------|----------------|--------|----------|----------------|-------------|
|                               |       |     |                        |                |        |          | ON-COLUMN      | FINAL       |
|                               | MASS  |     |                        |                |        |          | (ug/mL)        | ( ug/L)     |
| \$ 1 2-Fluorophenol           | 112   |     | 6.864                  | 6.856 (0.755)  |        | 339648   | 5.88440        | 5.884 (R)   |
| 3 Phenol                      | 94    |     | 8.479                  | 8.471 (0.933)  |        | 170124   | 2.14835        | 2.148       |
| 7 1,3-Dichlorobenzene         | 146   |     | Compound Not Detected. |                |        |          |                |             |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.090                  | 9.090 (1.000)  |        | 190341   | 4.00000        |             |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.113                  | 9.113 (1.003)  |        | 451      | 0.00631        | 0.006305    |
| 11 Benzyl alcohol             | 79    |     | 9.361                  | 9.361 (1.030)  |        | 6339     | 0.13808        | 0.1381 (M)  |
| 12 1,2-Dichlorobenzene        | 146   |     | Compound Not Detected. |                |        |          |                |             |
| 13 2-Methylphenol             | 108   |     | Compound Not Detected. |                |        |          |                |             |
| 15 4-Methylphenol             | 108   |     | 9.866                  | 9.858 (1.085)  |        | 35240    | 0.61806        | 0.6181      |
| 16 N-Nitroso-di-n-propylamine | 70    |     | Compound Not Detected. |                |        |          |                |             |
| 22 2,4-Dimethylphenol         | 107   |     | 10.906                 | 10.897 (0.942) |        | 511      | 0.00870        | 0.008703    |
| 24 Benzoic acid               | 105   |     | 11.008                 | 11.025 (0.951) |        | 15751    | 0.48986        | 0.4899      |
| 26 1,2,4-Trichlorobenzene     | 180   |     | Compound Not Detected. |                |        |          |                |             |
| * 27 Naphthalene-d8           | 136   |     | 11.577                 | 11.569 (1.000) |        | 679303   | 4.00000        |             |
| 30 Hexachlorobutadiene        | 225   |     | Compound Not Detected. |                |        |          |                |             |
| 39 Dimethylphthalate          | 163   |     | 14.711                 | 14.703 (0.968) |        | 1746     | 0.01672        | 0.01672 (M) |
| * 42 Acenaphthene-d10         | 162   |     | 15.198                 | 15.198 (1.000) |        | 330974   | 4.00000        |             |
| 50 Diethylphthalate           | 149   |     | 16.172                 | 16.165 (1.064) |        | 14561    | 0.13457        | 0.1346      |
| 54 N-Nitrosodiphenylamine     | 169   |     | Compound Not Detected. |                |        |          |                |             |
| 57 Hexachlorobenzene          | 284   |     | Compound Not Detected. |                |        |          |                |             |

| Compounds                 | QUANT SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|
|                           |           |                        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>( ug/L) |
| 58 Pentachlorophenol      | 266       | 17.995                 | 17.987 | (0.986) | 1951     | 0.08415              | 0.08415 (M)      |
| * 59 Phenanthrene-d10     | 188       | 18.258                 | 18.250 | (1.000) | 699078   | 4.00000              |                  |
| \$ 66 Terphenyl-d14       | 244       | 21.438                 | 21.422 | (0.918) | 524985   | 5.12749              | 5.127 (R)        |
| 67 Butylbenzylphthalate   | 149       | 22.375                 | 22.367 | (0.958) | 6347     | 0.07681              | 0.07681          |
| * 69 Chrysene-d12         | 240       | 23.358                 | 23.343 | (1.000) | 628385   | 4.00000              |                  |
| * 77 Perylene-d12         | 264       | 26.045                 | 26.029 | (1.000) | 737138   | 4.00000              |                  |
| 79 Dibenzo(a,h)anthracene | 278       | 28.806                 | 28.790 | (1.106) | 50779    | 0.21005              | 0.2101           |
| 90 N-Nitrosodimethylamine | 74        | Compound Not Detected. |        |         |          |                      |                  |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.



ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT1003222314S.D  
 Lab Smp Id: 23A0179-05  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Misc Info:

Calibration Date: 22-MAR-2023  
 Calibration Time: 18:20  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 135191   | 67596      | 270382  | 190341 | 40.79 |
| 27 Naphthalene-d8   | 487226   | 243613     | 974452  | 679303 | 39.42 |
| 42 Acenaphthene-d10 | 246588   | 123294     | 493176  | 330974 | 34.22 |
| 59 Phenanthrene-d10 | 479352   | 239676     | 958704  | 699078 | 45.84 |
| 69 Chrysene-d12     | 439791   | 219896     | 879582  | 628385 | 42.88 |
| 77 Perylene-d12     | 505700   | 252850     | 1011400 | 737138 | 45.77 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.09     | 8.59     | 9.59  | 9.09   | 0.00  |
| 27 Naphthalene-d8   | 11.57    | 11.07    | 12.07 | 11.58  | 0.07  |
| 42 Acenaphthene-d10 | 15.20    | 14.70    | 15.70 | 15.20  | 0.00  |
| 59 Phenanthrene-d10 | 18.25    | 17.75    | 18.75 | 18.26  | 0.04  |
| 69 Chrysene-d12     | 23.34    | 22.84    | 23.84 | 23.36  | 0.07  |
| 77 Perylene-d12     | 26.03    | 25.53    | 26.53 | 26.05  | 0.06  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222314S.D

Lab ID: 23A0179-05

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 23-MAR-2023 01:21

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

---

NONE

RRT check based on Ccal File: SIM.b/NT1003222303S.D

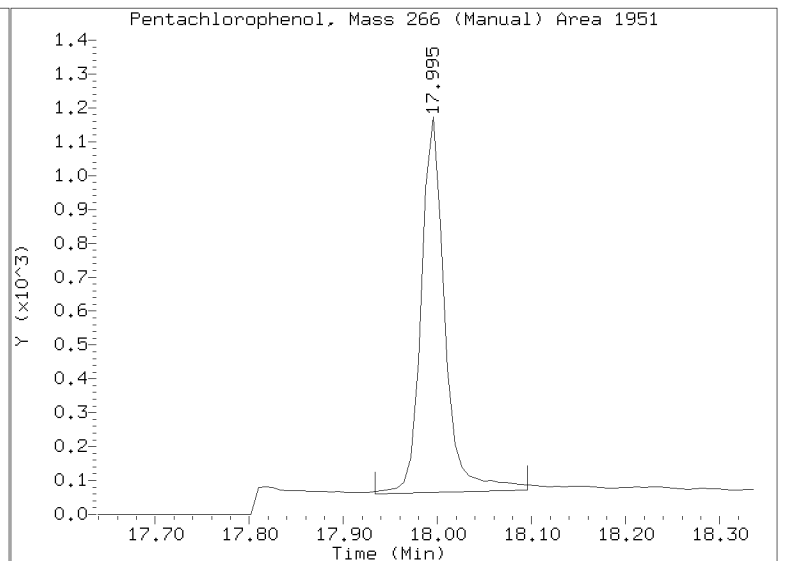
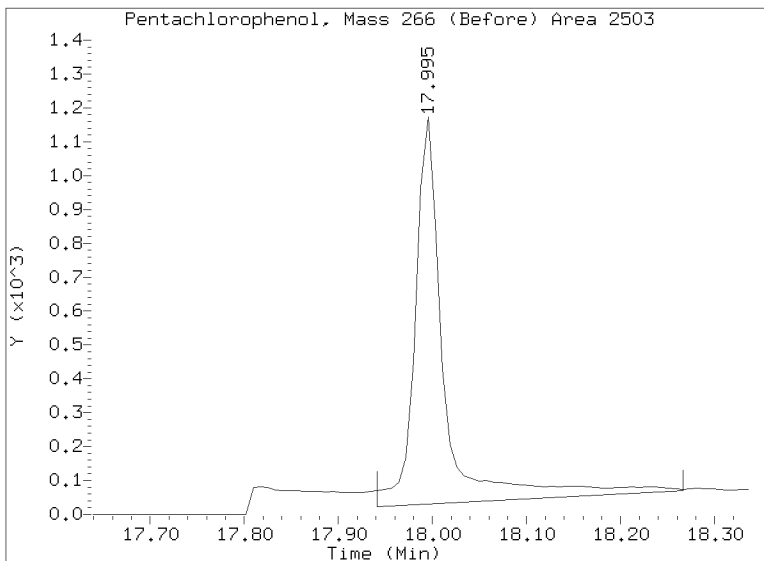
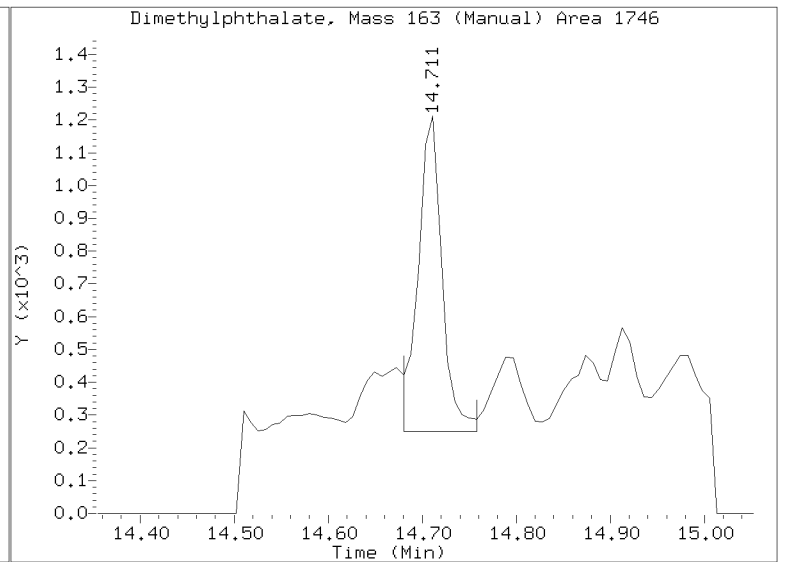
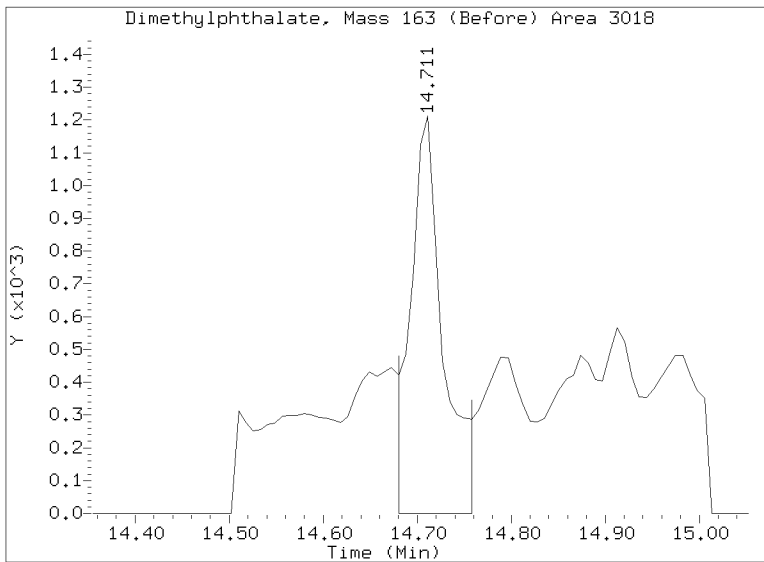
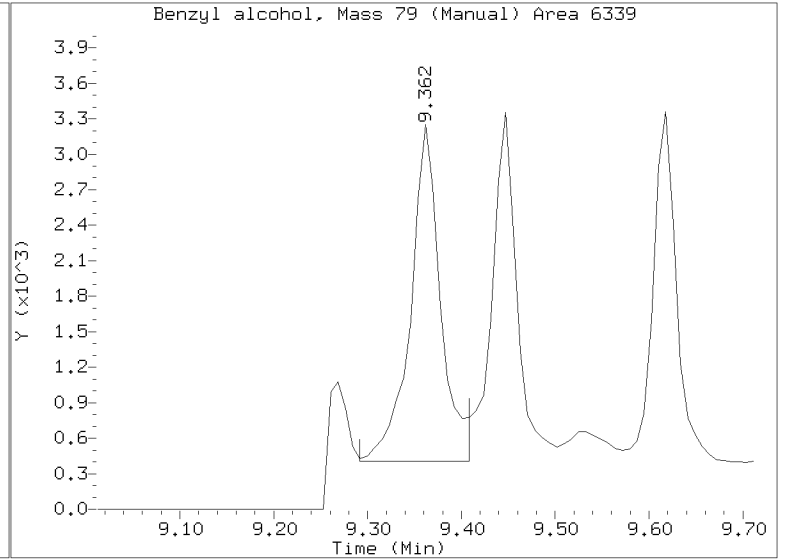
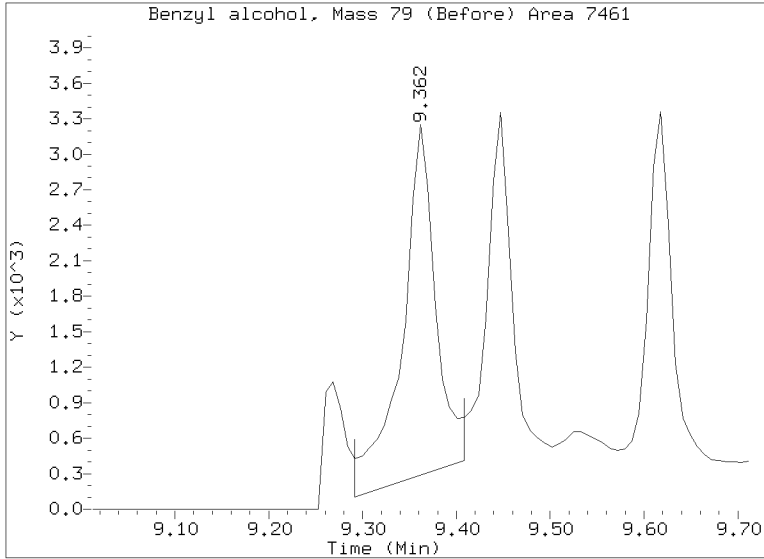
On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222314S.D  
Injection Date: 23-MAR-2023 01:21  
Lab ID:23A0179-05 Client ID:  
Report Date: 03/25/2023 13:23





Form I  
ORGANIC ANALYSIS DATA SHEET  
EPA 8270E-SIM  
SIM SVOC Organics (Dual scan list)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-06RE1 A

SDG: 23A0179

Sampled: 01/10/23 09:54

Prepared: 03/17/23 14:20

File ID: NT1003222315S.D

% Solids: 53.98

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 01:59

Batch: BLC0442

Sequence: SLC0407

Initial/Final: 18.84 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00049

Cleanups: GPC

| CAS NO.  | COMPOUND               | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|------------------------|----------|----------------------|---|------|------|
| 106-46-7 | 1,4-Dichlorobenzene    | 1        | 2.1                  | J | 0.6  | 4.9  |
| 95-50-1  | 1,2-Dichlorobenzene    | 1        | 4.9                  | U | 0.7  | 4.9  |
| 100-51-6 | Benzyl Alcohol         | 1        | 23.8                 |   | 2.4  | 19.7 |
| 65-85-0  | Benzoic acid           | 1        | 59.6                 | J | 13.2 | 98.3 |
| 105-67-9 | 2,4-Dimethylphenol     | 1        | 19.7                 | U | 2.1  | 19.7 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1        | 4.9                  | U | 2.6  | 4.9  |
| 86-30-6  | N-Nitrosodiphenylamine | 1        | 4.9                  | U | 1.3  | 4.9  |
| 87-86-5  | Pentachlorophenol      | 1        | 2.5                  | J | 2.1  | 19.7 |

| SURROGATES      | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|-----------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol  | 737.48                | 560                   | 75.9  | 27 - 120  |   |
| p-Terphenyl-d14 | 491.65                | 511                   | 104   | 37 - 120  |   |

Data File: \\target\share\chem3\nt10.1\20230322.16\SIM.B\NT10032223155.D

Date: 23-MAR-2023 01:59

Client ID:

Sample Info: 23A0179-06

Volume Injected (uL): 1.0

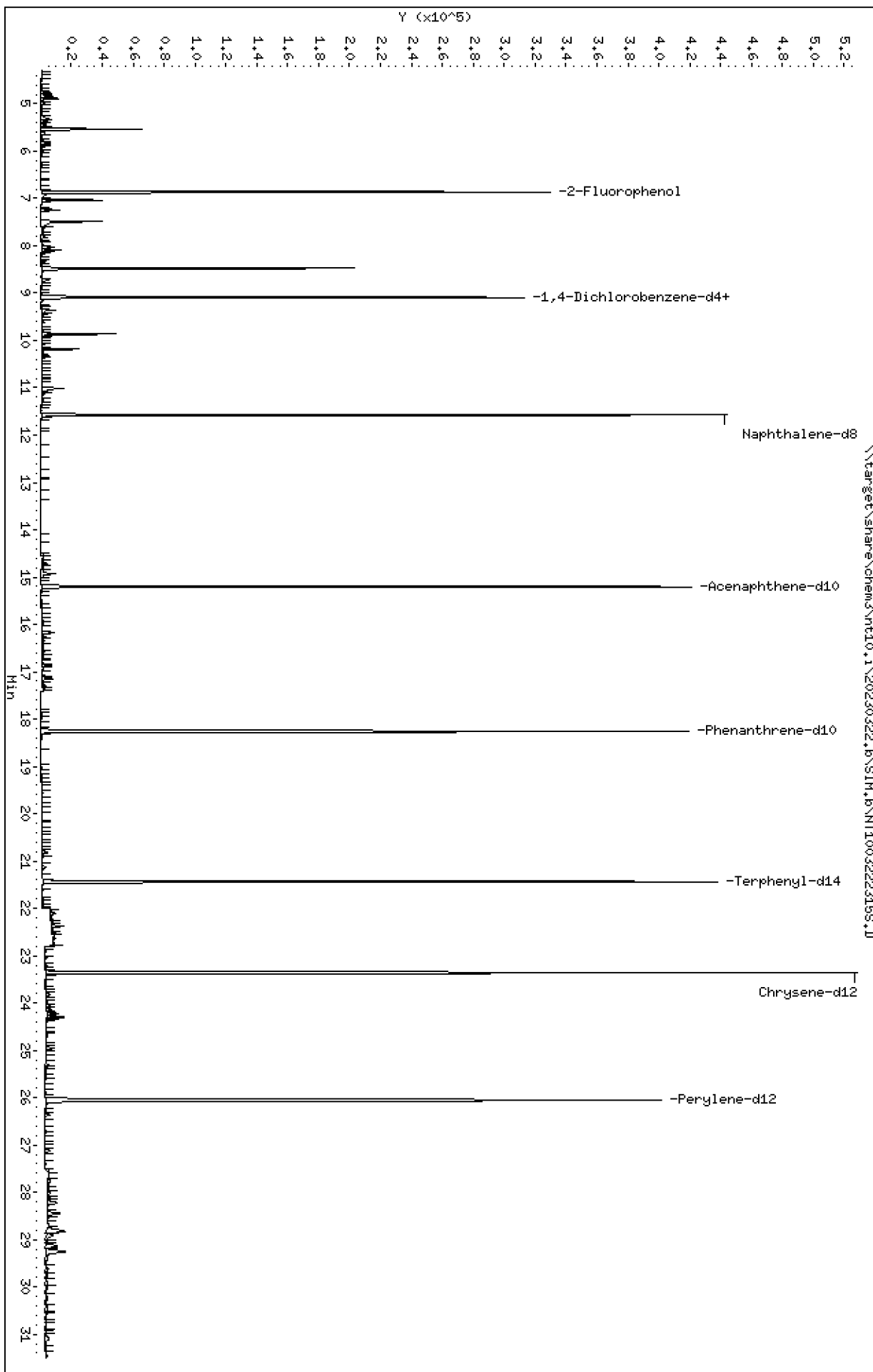
Column phase: ZB-5msi

Instrument: nt10.1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06

Volume Injected (uL): 1.0

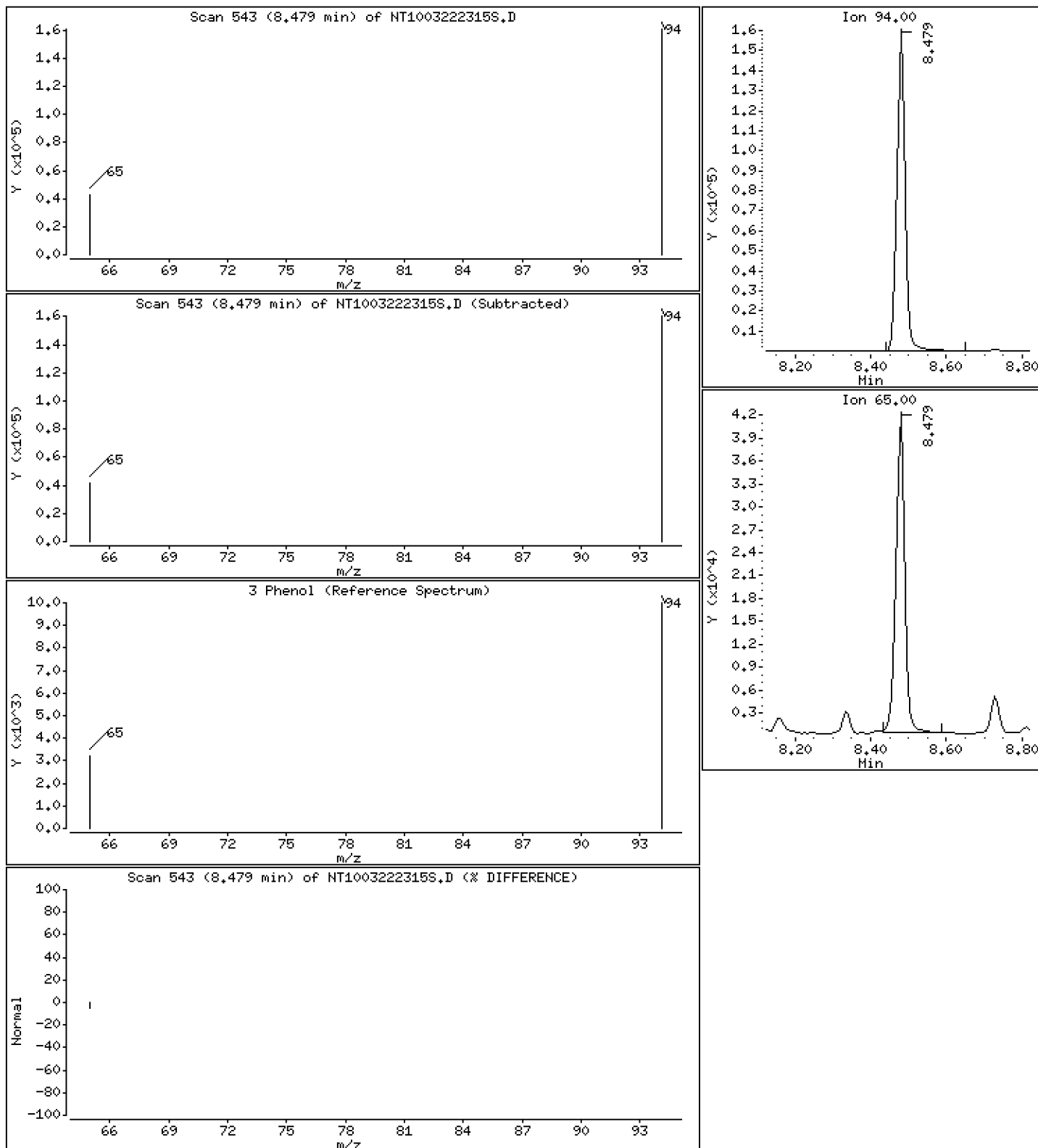
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 3,012 ug/L



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06

Volume Injected (uL): 1.0

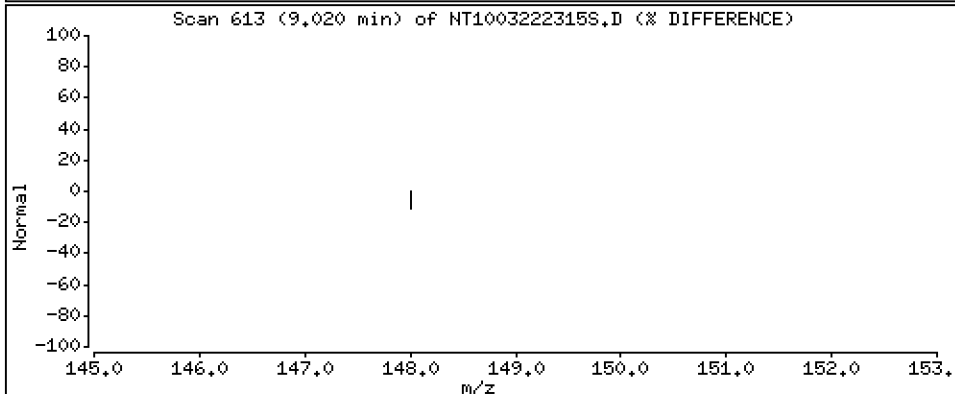
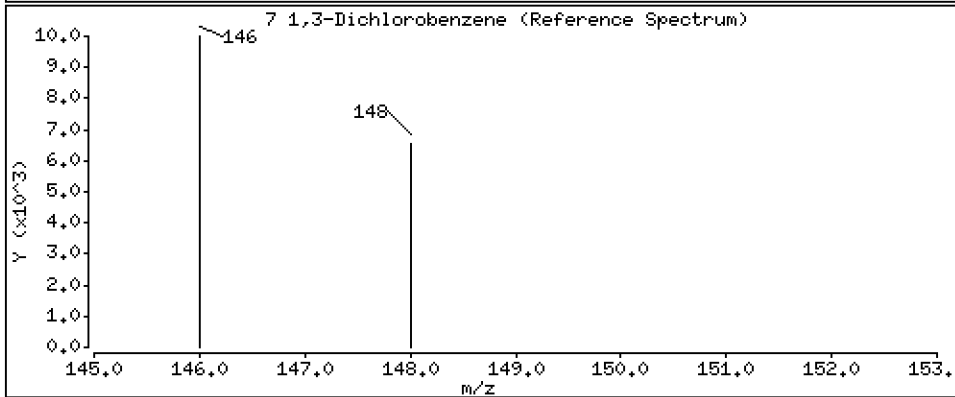
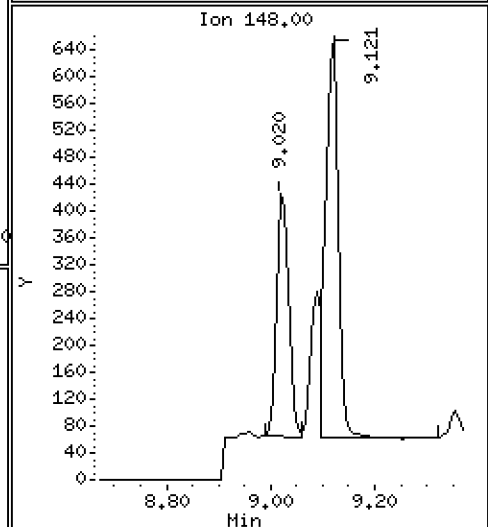
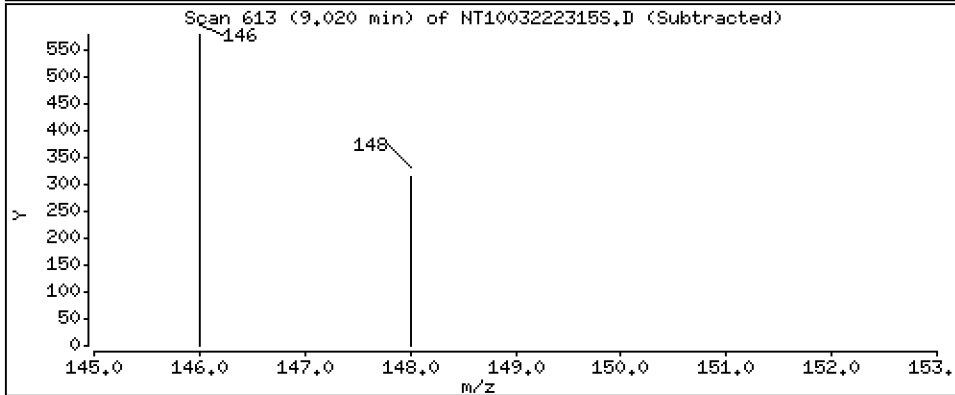
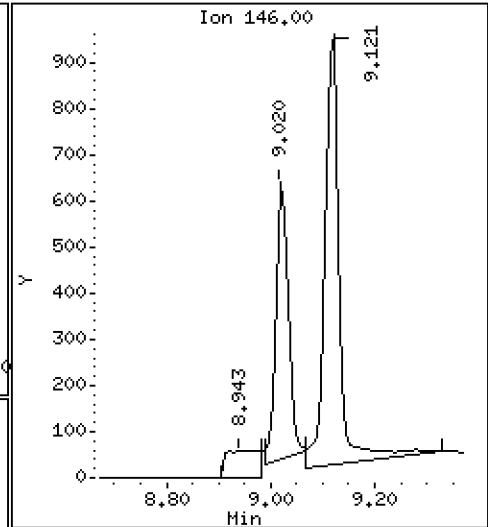
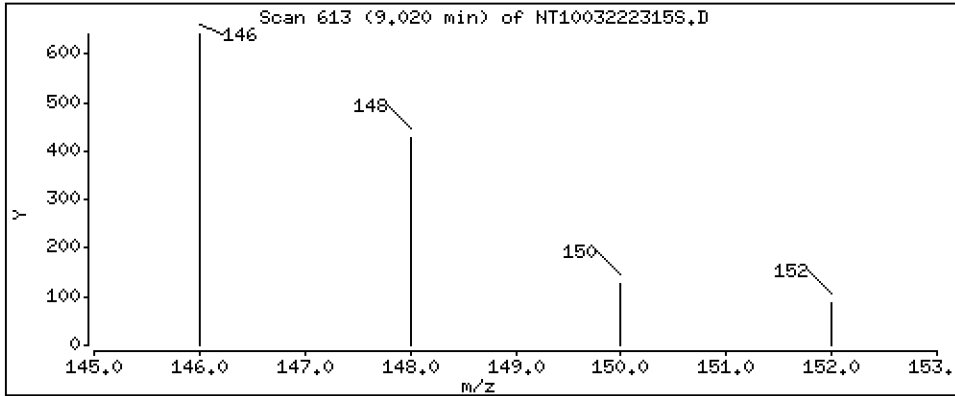
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,01333 ug/L



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06

Volume Injected (uL): 1.0

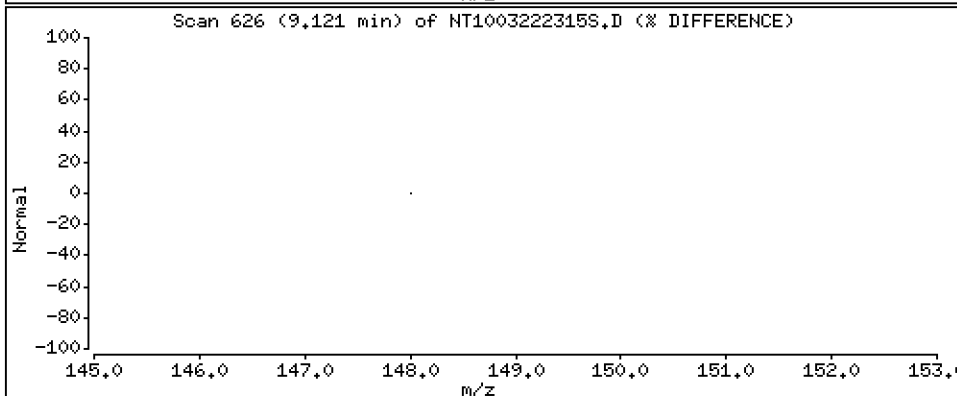
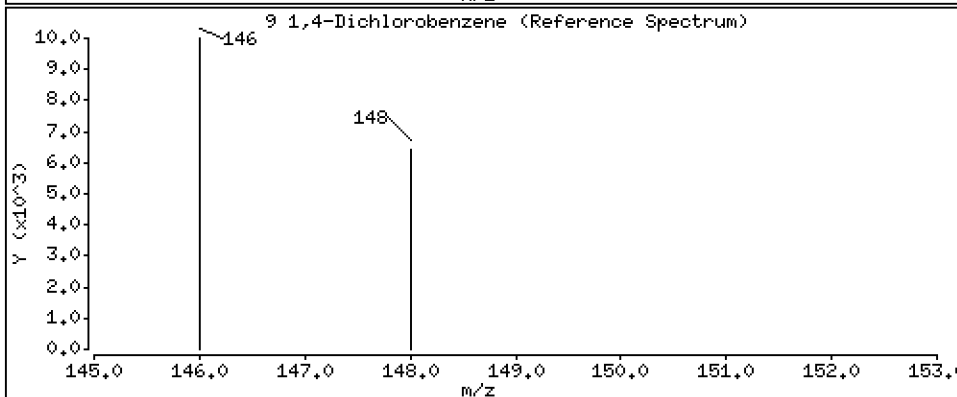
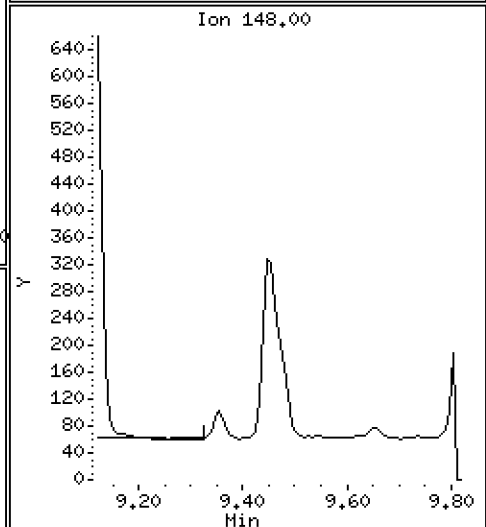
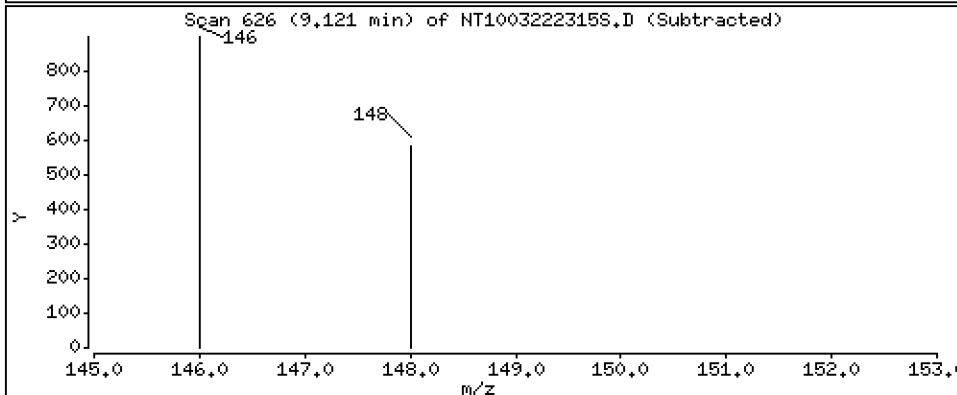
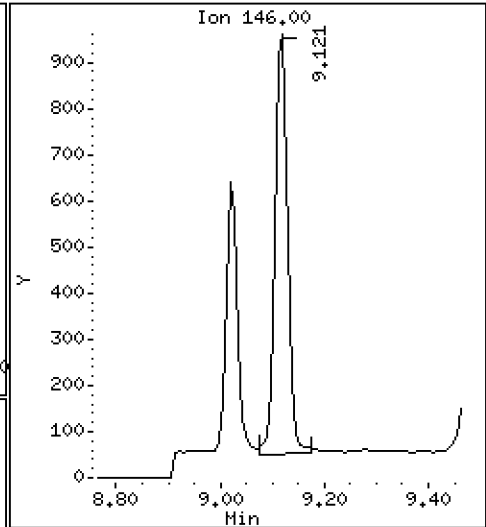
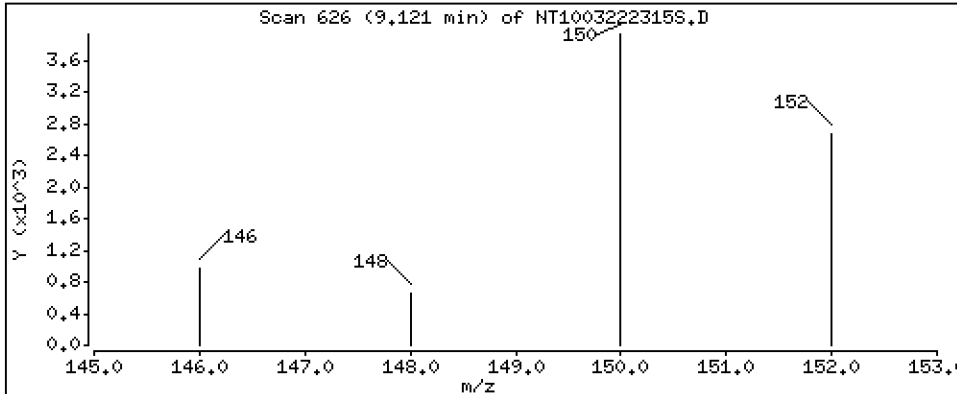
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,02108 ug/L





Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06

Volume Injected (uL): 1.0

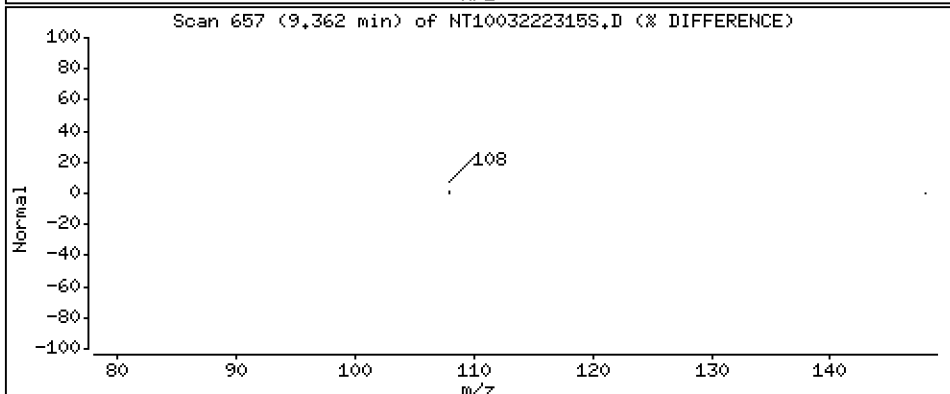
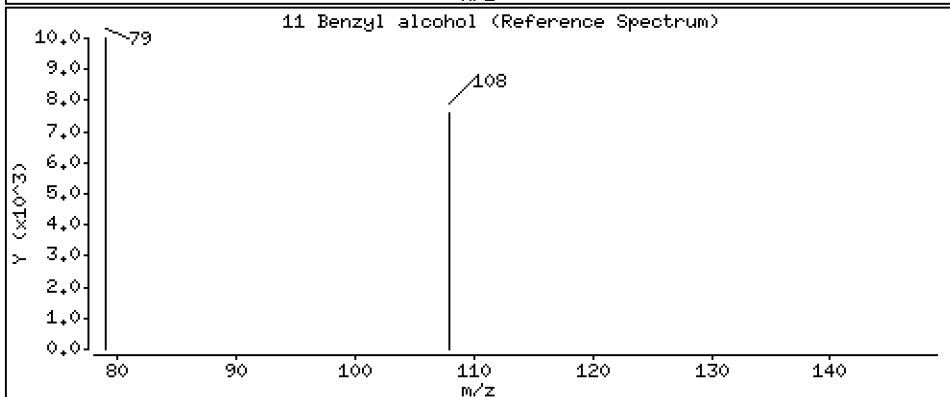
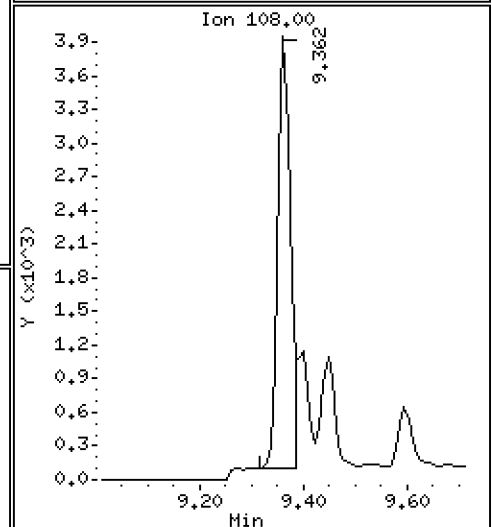
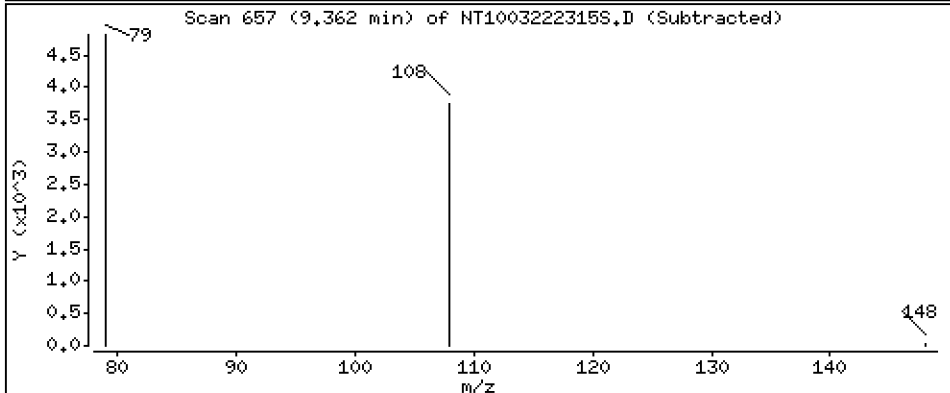
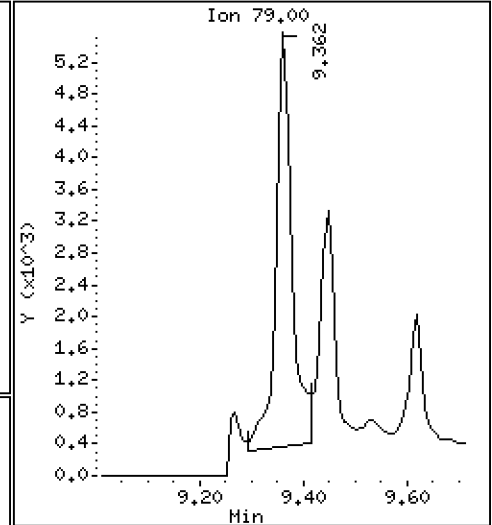
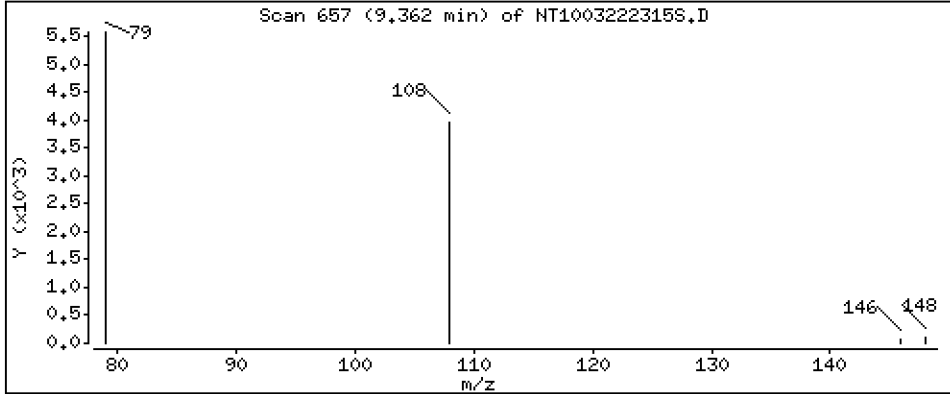
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 0,2425 ug/L



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06

Volume Injected (uL): 1.0

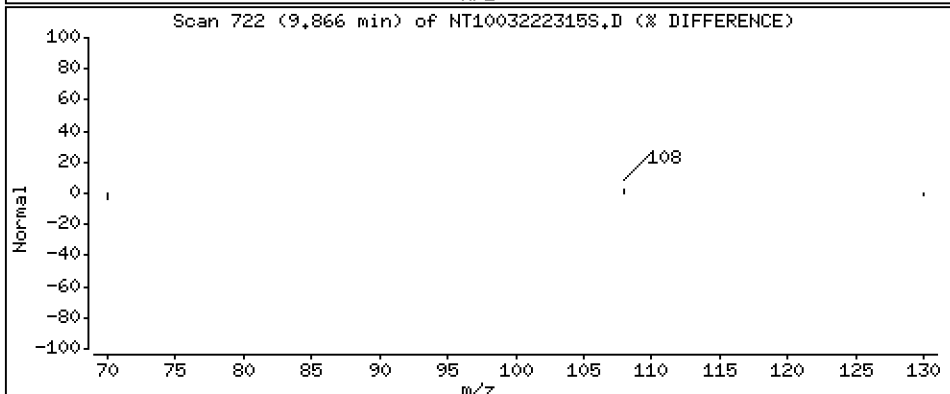
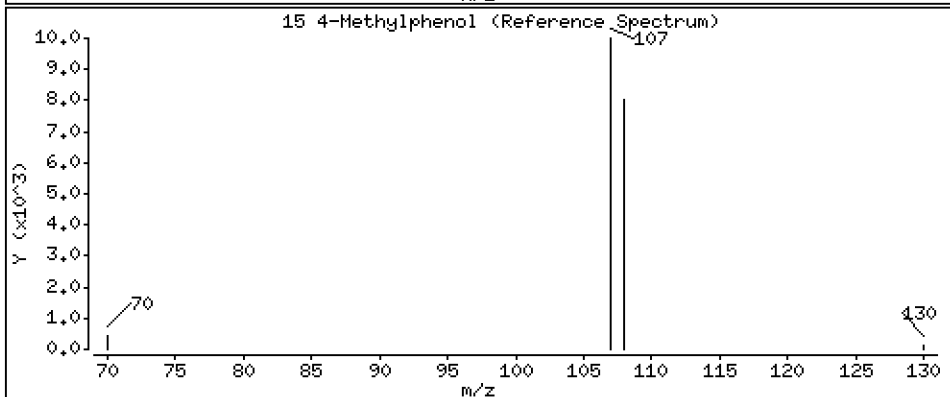
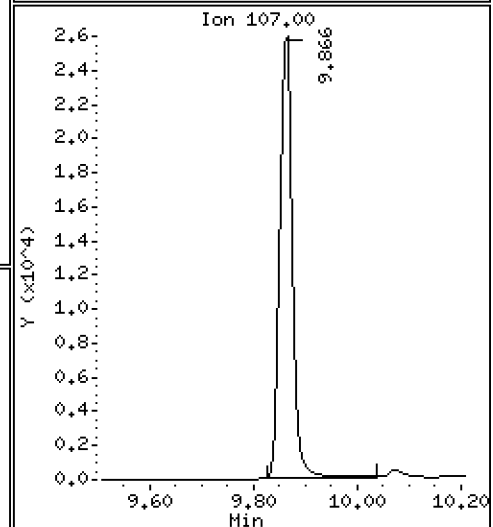
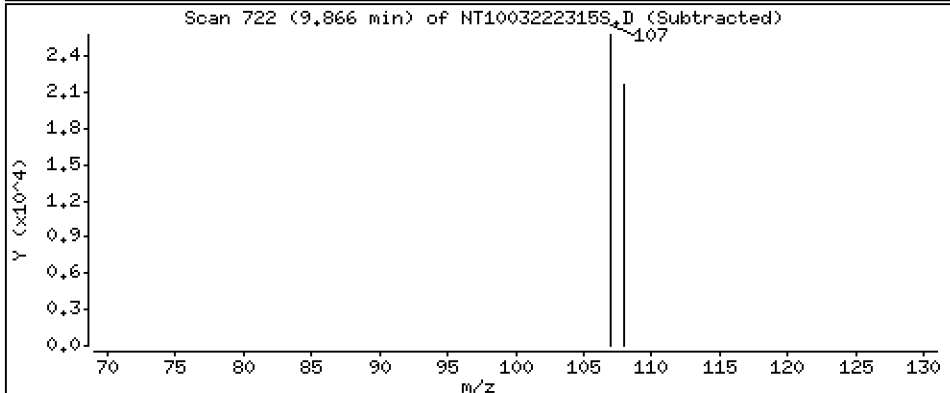
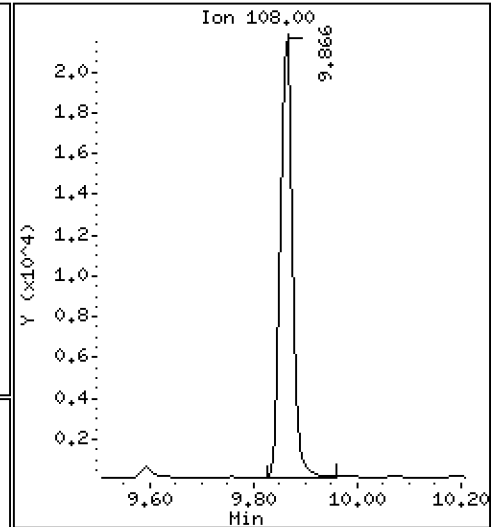
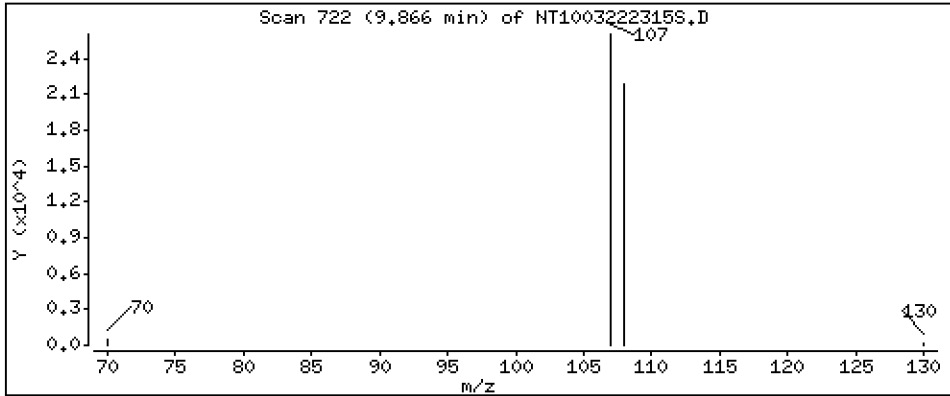
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.6078 ug/L



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06

Volume Injected (uL): 1.0

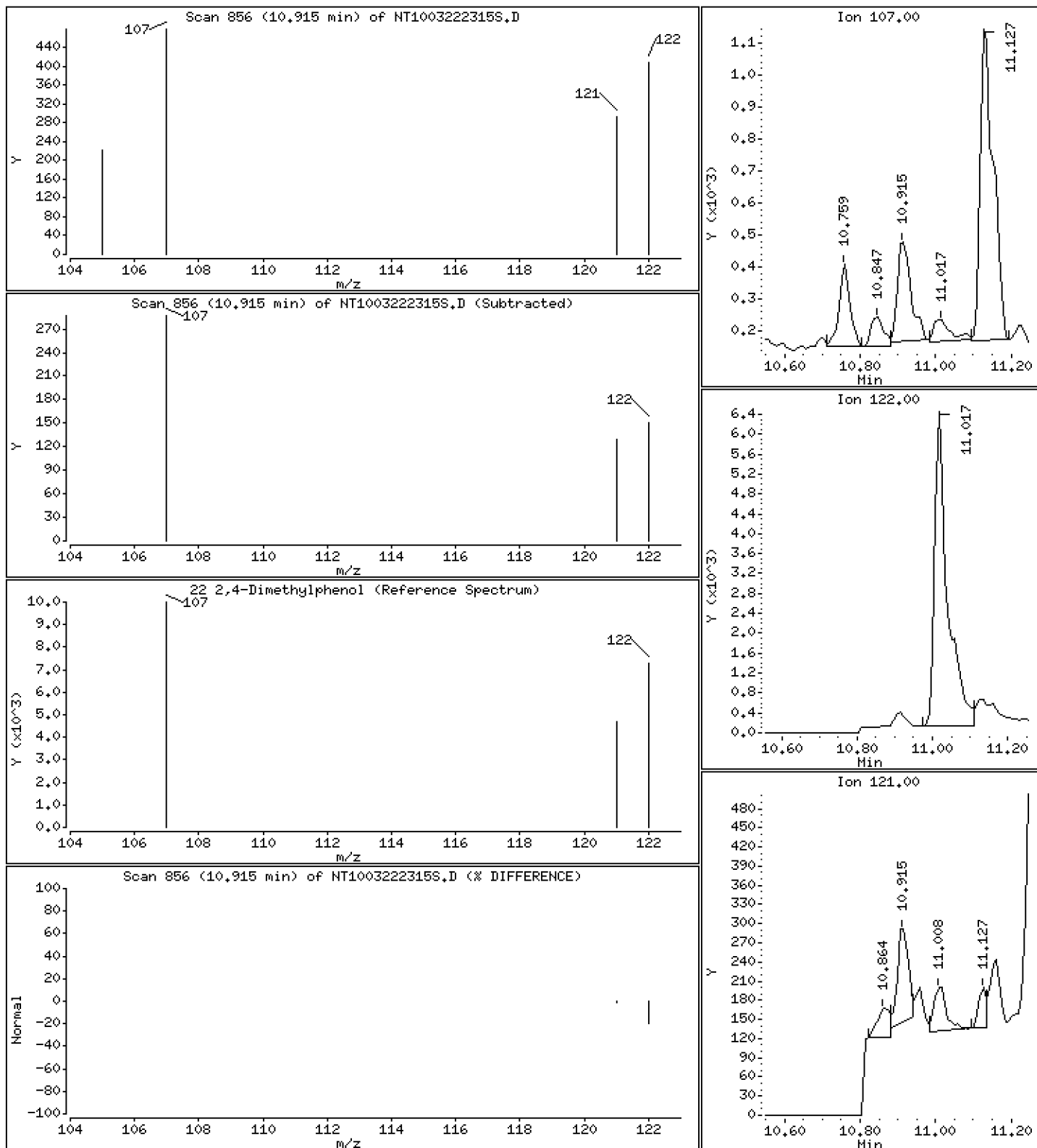
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 0.01354 ug/L



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06

Volume Injected (uL): 1.0

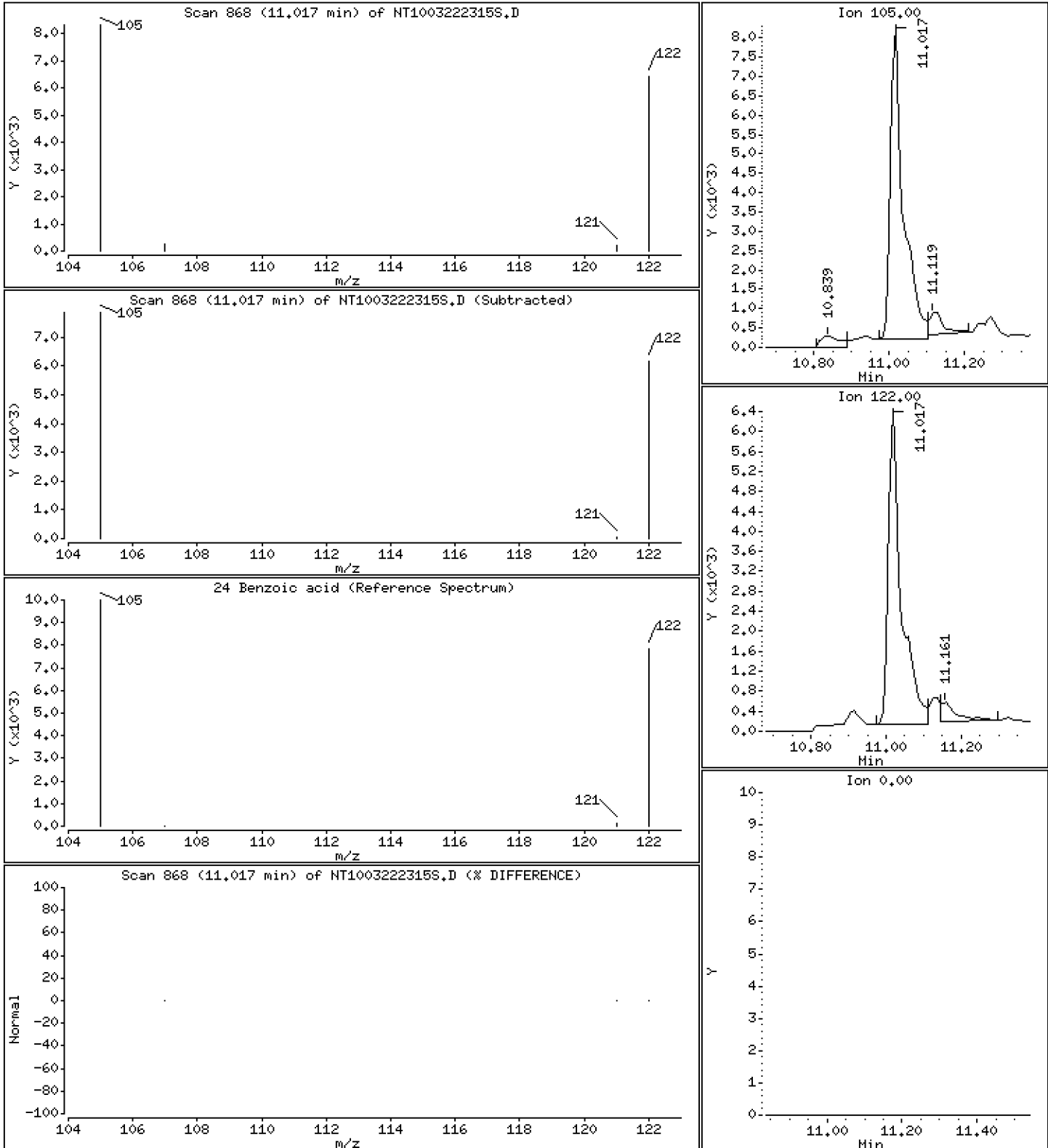
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.6057 ug/L



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06

Volume Injected (uL): 1.0

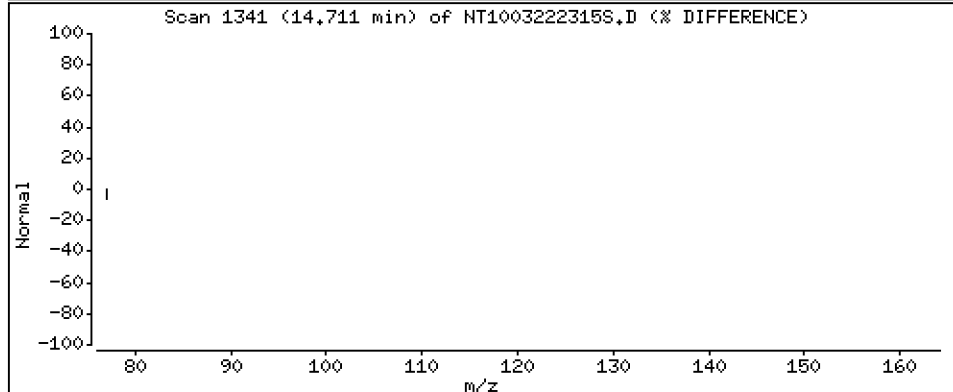
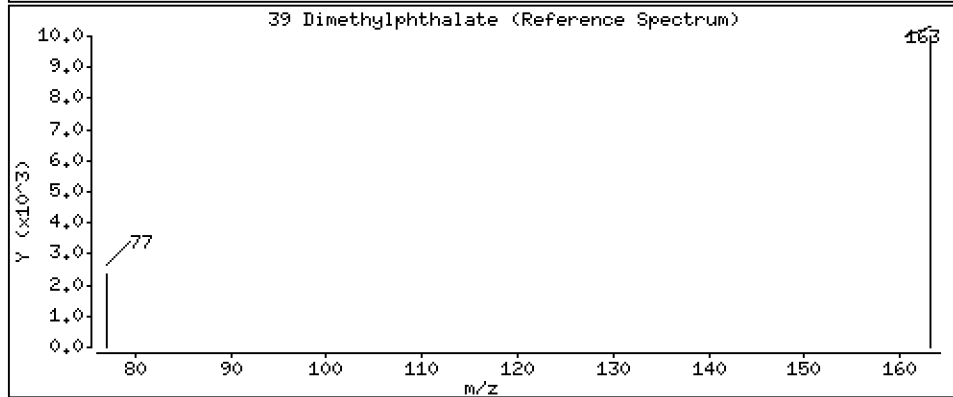
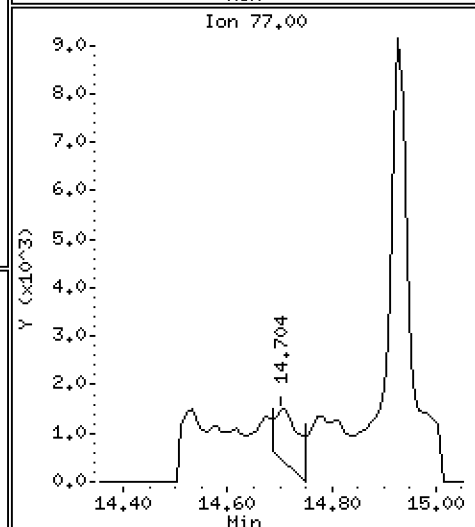
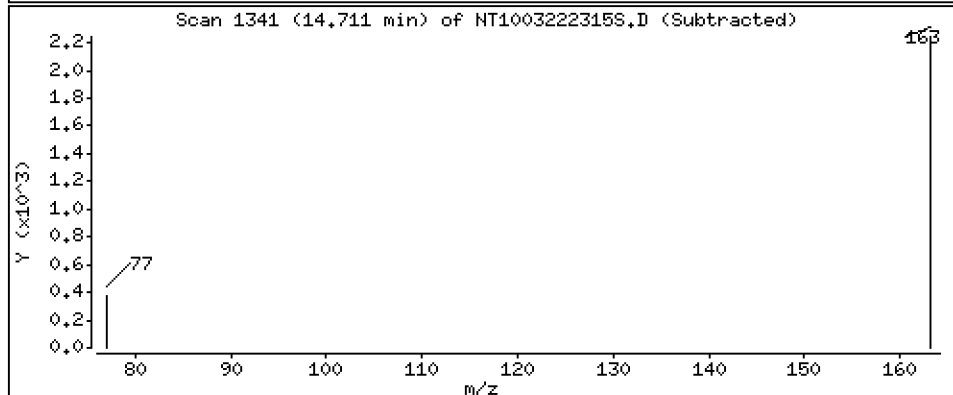
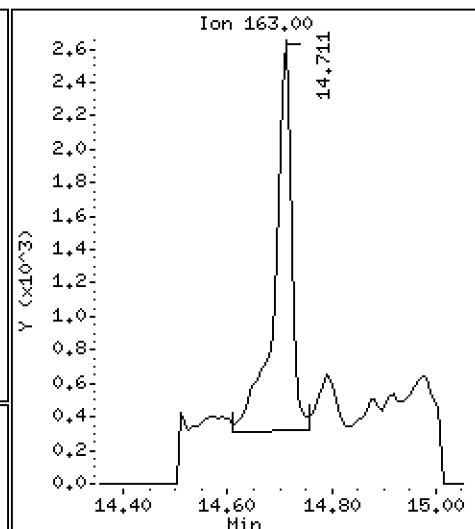
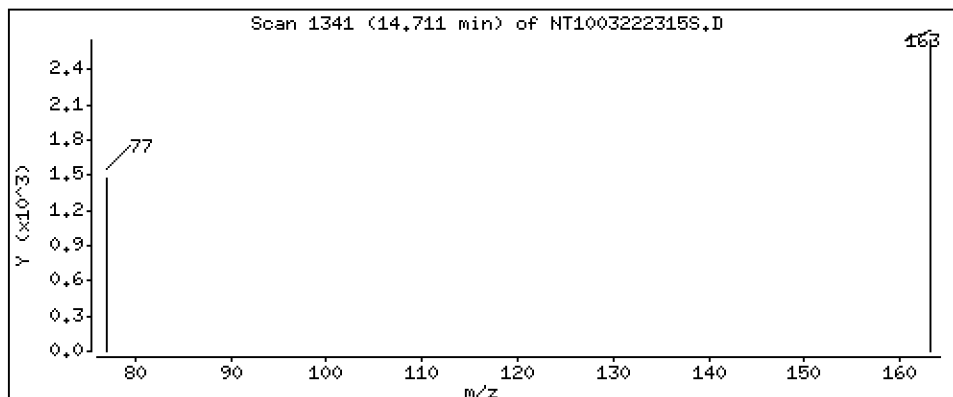
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,04906 ug/L



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06

Volume Injected (uL): 1.0

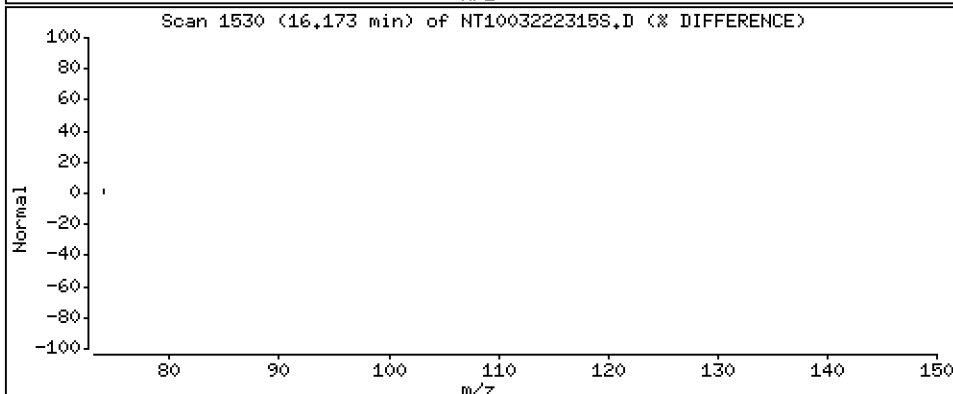
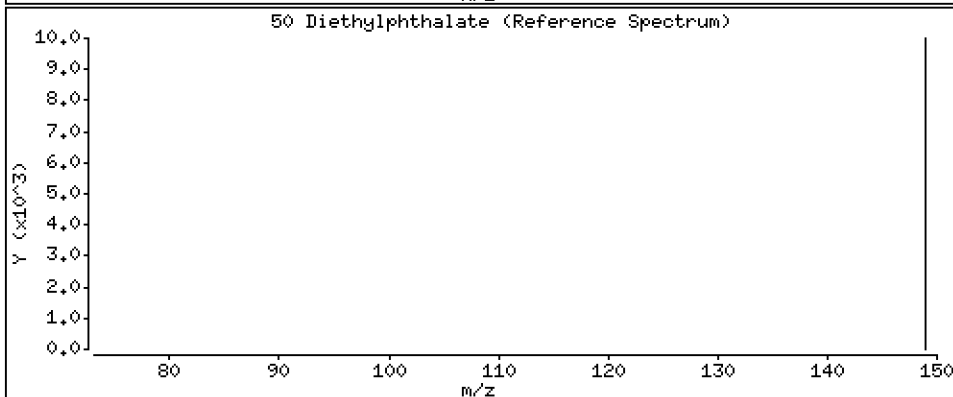
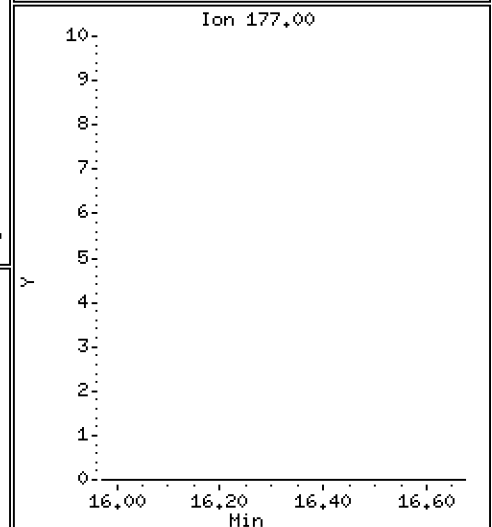
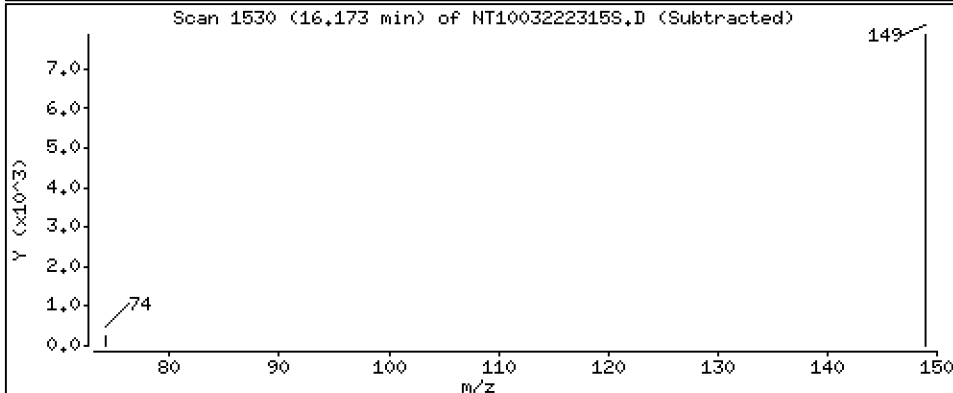
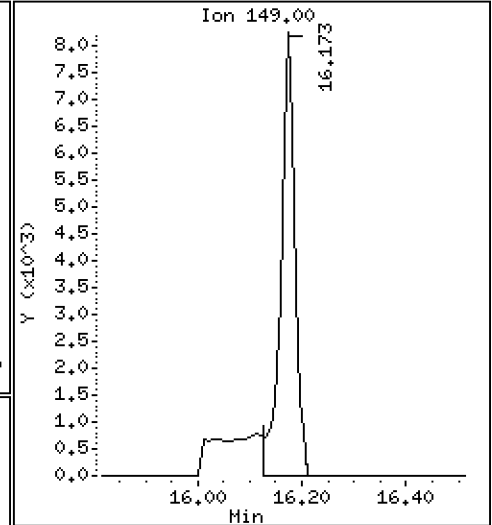
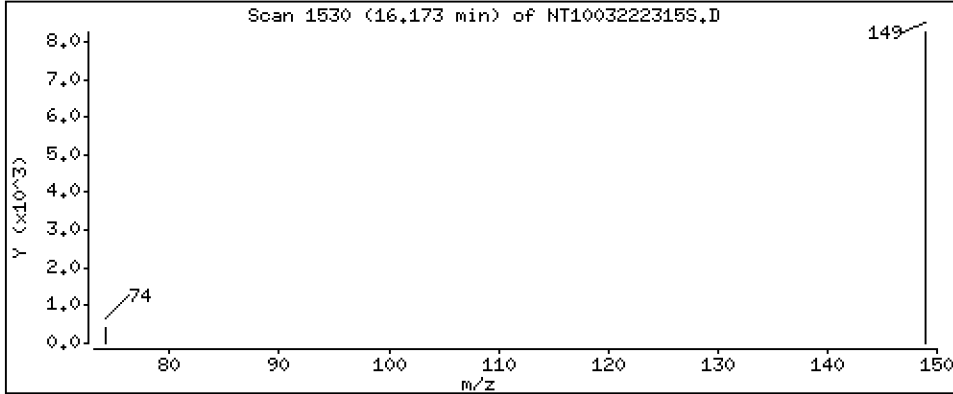
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,1439 ug/L



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06

Volume Injected (uL): 1.0

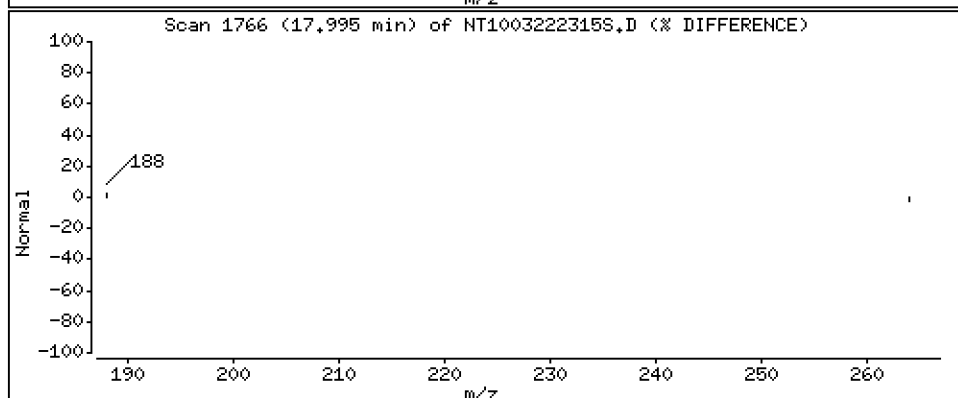
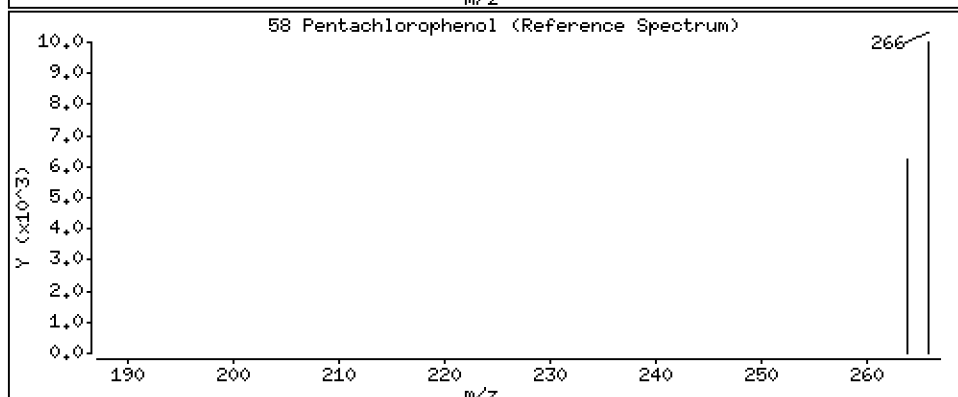
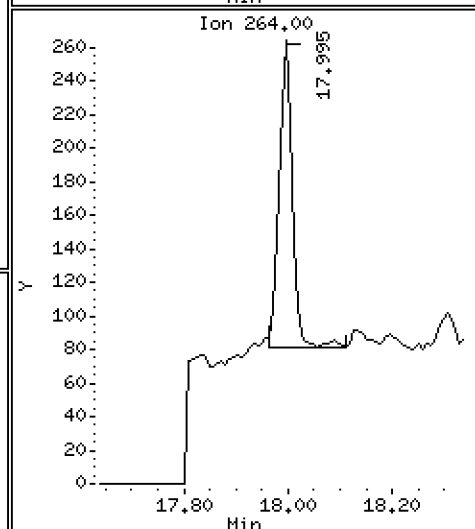
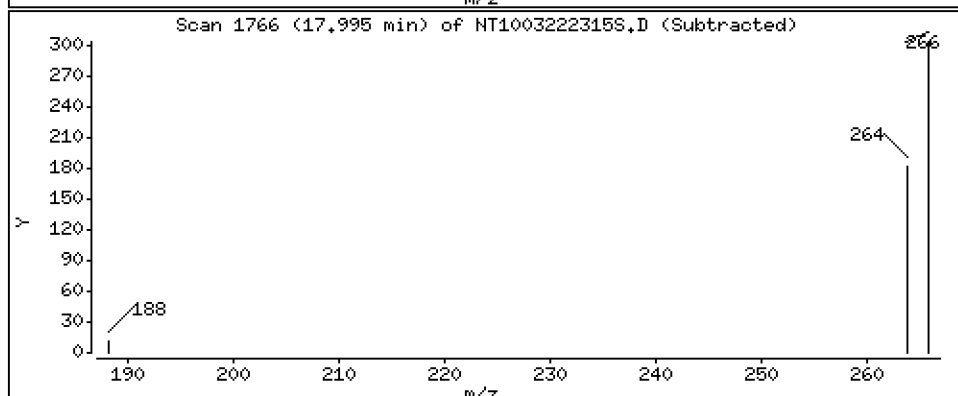
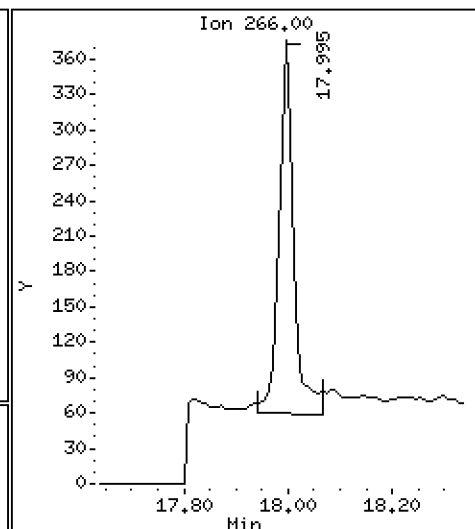
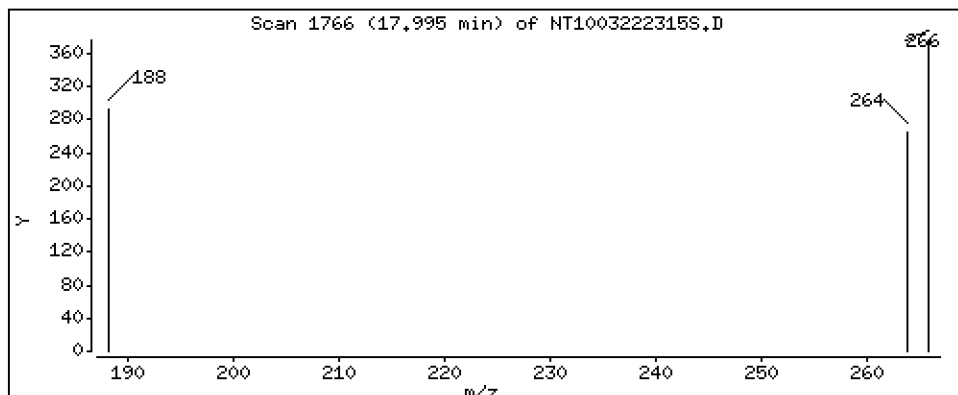
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,02558 ug/L



Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06

Volume Injected (uL): 1.0

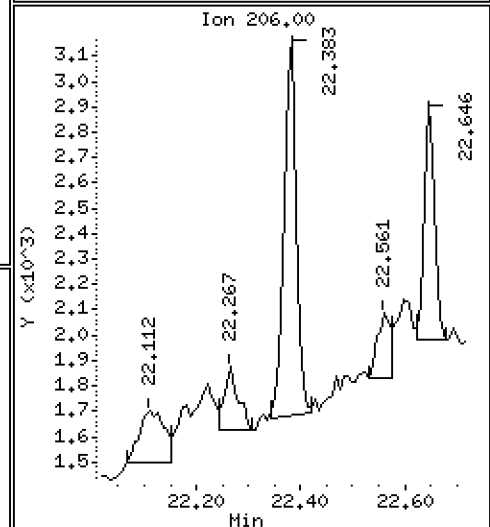
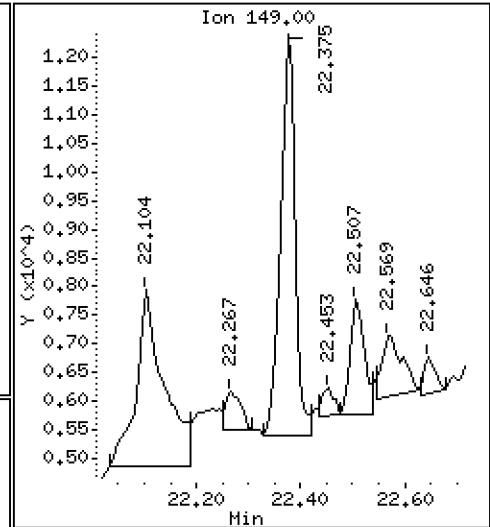
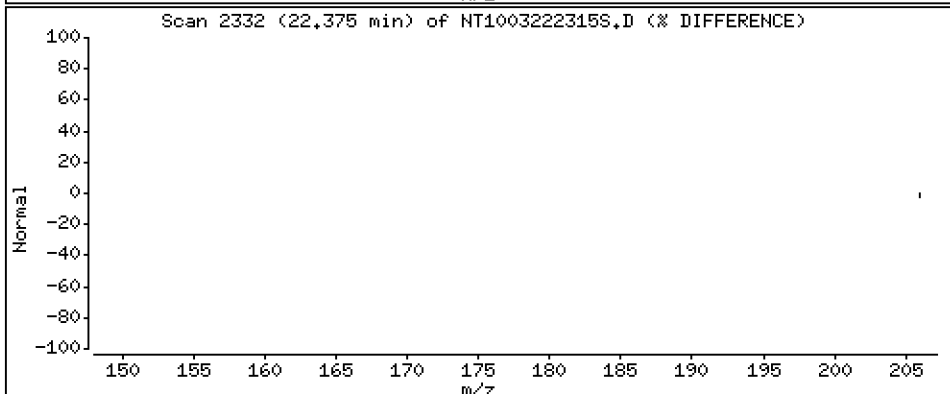
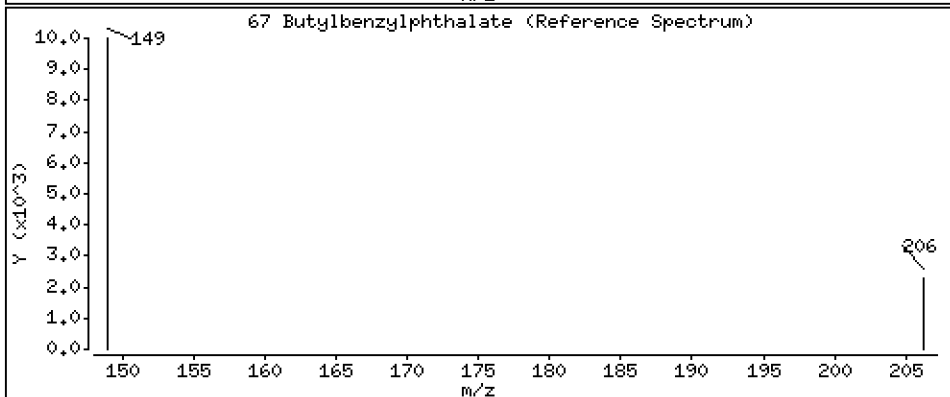
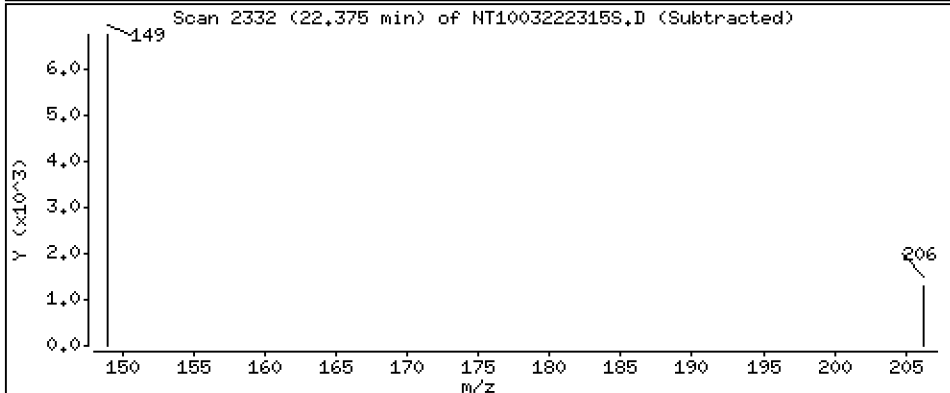
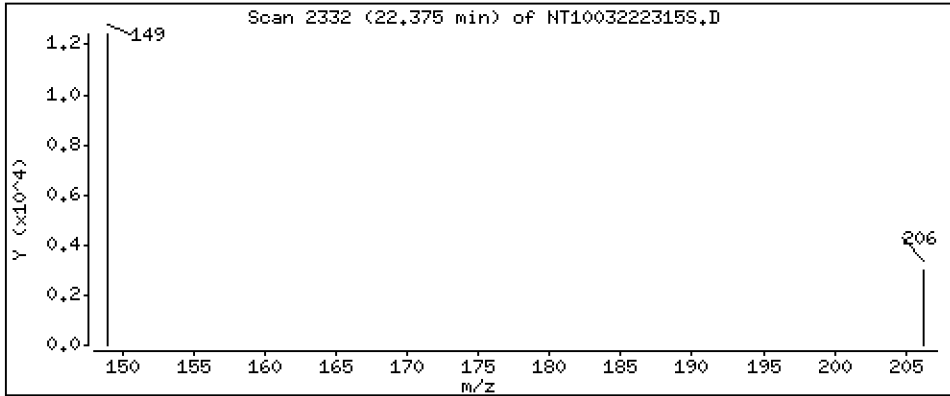
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.1531 ug/L





Date : 23-MAR-2023 01:59

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-06

Volume Injected (uL): 1.0

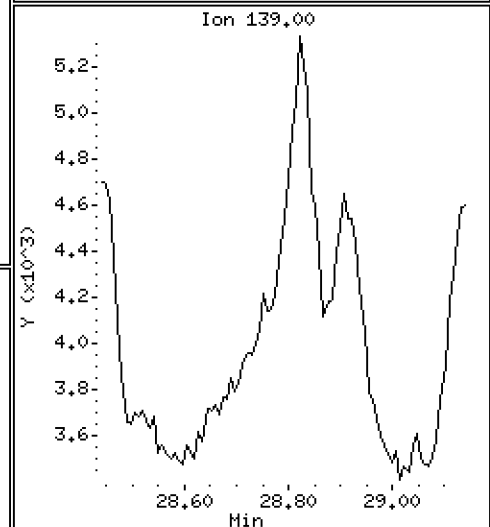
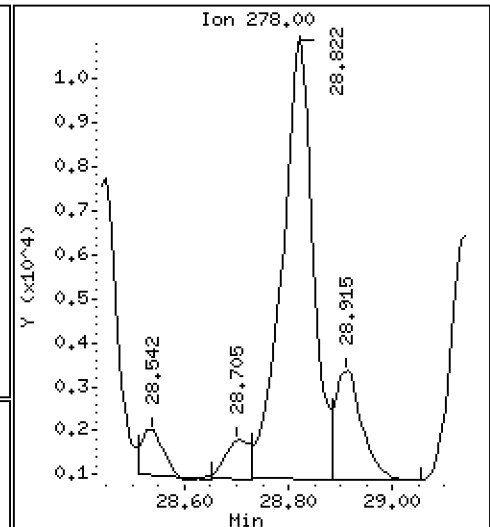
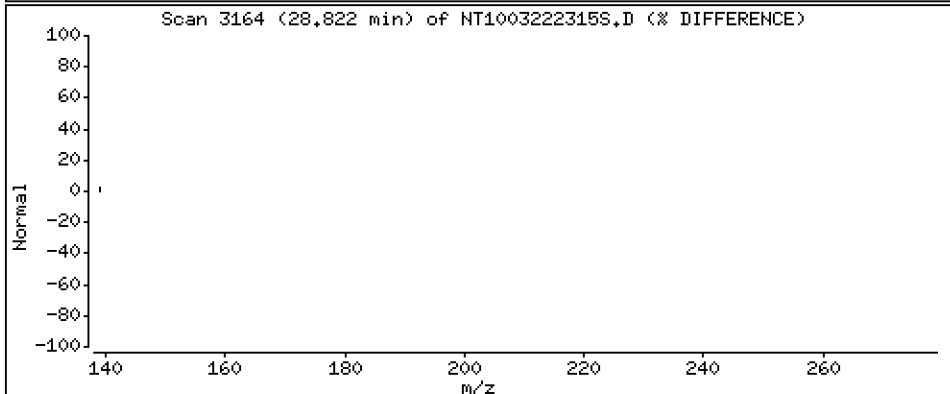
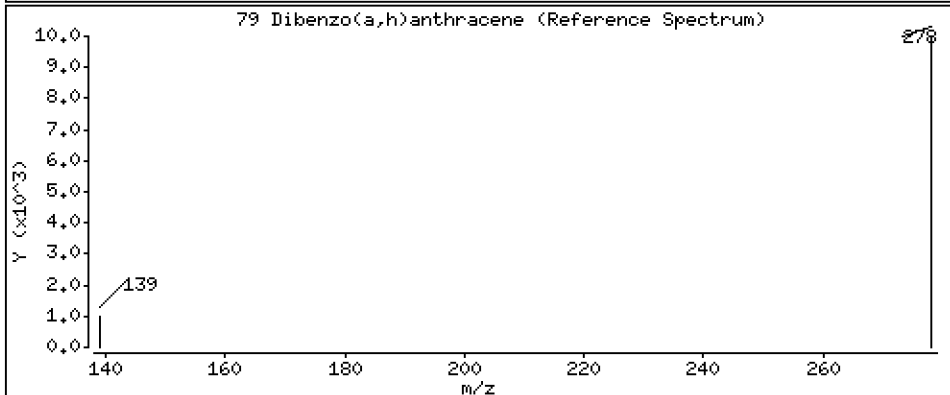
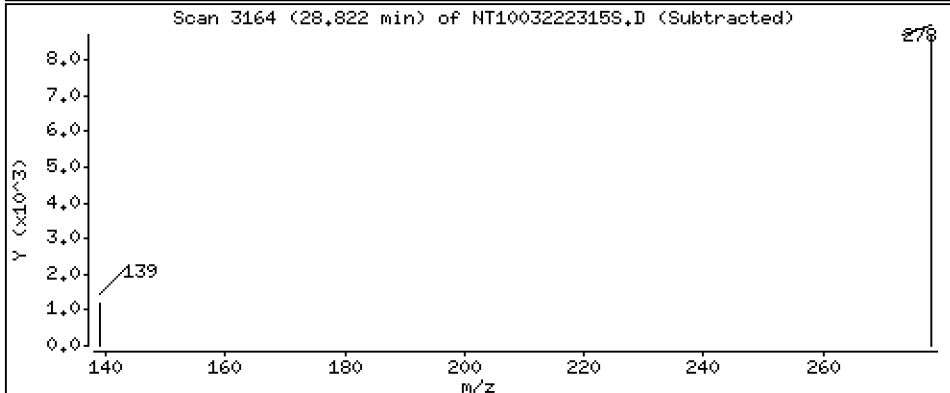
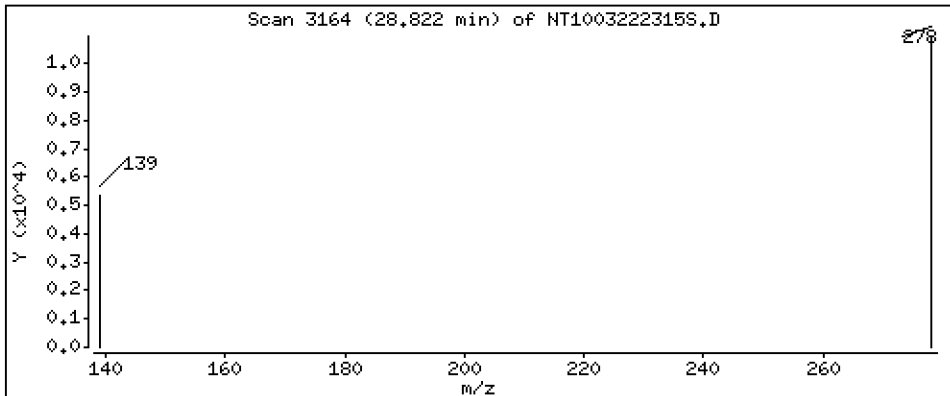
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1735 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222315S.D  
 Lab Smp Id: 23A0179-06  
 Inj Date : 23-MAR-2023 01:59 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : 23A0179-06  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Meth Date : 25-Mar-2023 13:23 yev Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 15  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: ORGDATA102

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT     | EXP RT         | REL RT | RESPONSE               | CONCENTRATIONS |             |
|-------------------------------|-------|-----|--------|----------------|--------|------------------------|----------------|-------------|
|                               |       |     |        |                |        |                        | ON-COLUMN      | FINAL       |
|                               | MASS  |     |        |                |        |                        | (ug/mL)        | ( ug/L)     |
| \$ 1 2-Fluorophenol           | 112   |     | 6.864  | 6.856 (0.755)  |        | 321025                 | 5.69077        | 5.691 (R)   |
| 3 Phenol                      | 94    |     | 8.479  | 8.471 (0.933)  |        | 233113                 | 3.01206        | 3.012       |
| 7 1,3-Dichlorobenzene         | 146   |     | 9.020  | 9.020 (0.992)  |        | 965                    | 0.01333        | 0.01333     |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.090  | 9.090 (1.000)  |        | 186026                 | 4.00000        |             |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.121  | 9.113 (1.003)  |        | 1474                   | 0.02108        | 0.02108 (M) |
| 11 Benzyl alcohol             | 79    |     | 9.361  | 9.361 (1.030)  |        | 10881                  | 0.24251        | 0.2425 (M)  |
| 12 1,2-Dichlorobenzene        | 146   |     |        |                |        | Compound Not Detected. |                |             |
| 13 2-Methylphenol             | 108   |     |        |                |        | Compound Not Detected. |                |             |
| 15 4-Methylphenol             | 108   |     | 9.866  | 9.858 (1.085)  |        | 33867                  | 0.60776        | 0.6078      |
| 16 N-Nitroso-di-n-propylamine | 70    |     |        |                |        | Compound Not Detected. |                |             |
| 22 2,4-Dimethylphenol         | 107   |     | 10.914 | 10.897 (0.943) |        | 790                    | 0.01354        | 0.01354     |
| 24 Benzoic acid               | 105   |     | 11.016 | 11.025 (0.952) |        | 19366                  | 0.60571        | 0.6057      |
| 26 1,2,4-Trichlorobenzene     | 180   |     |        |                |        | Compound Not Detected. |                |             |
| * 27 Naphthalene-d8           | 136   |     | 11.577 | 11.569 (1.000) |        | 675158                 | 4.00000        |             |
| 30 Hexachlorobutadiene        | 225   |     |        |                |        | Compound Not Detected. |                |             |
| 39 Dimethylphthalate          | 163   |     | 14.711 | 14.703 (0.967) |        | 5147                   | 0.04906        | 0.04906 (M) |
| * 42 Acenaphthene-d10         | 162   |     | 15.206 | 15.198 (1.000) |        | 332455                 | 4.00000        |             |
| 50 Diethylphthalate           | 149   |     | 16.172 | 16.165 (1.064) |        | 15644                  | 0.14394        | 0.1439      |
| 54 N-Nitrosodiphenylamine     | 169   |     |        |                |        | Compound Not Detected. |                |             |
| 57 Hexachlorobenzene          | 284   |     |        |                |        | Compound Not Detected. |                |             |

| Compounds                 | QUANT SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|
|                           |           |                        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>( ug/L) |
| 58 Pentachlorophenol      | 266       | 17.995                 | 17.987 | (0.986) | 602      | 0.02558              | 0.02558 (M)      |
| * 59 Phenanthrene-d10     | 188       | 18.258                 | 18.250 | (1.000) | 709699   | 4.00000              |                  |
| \$ 66 Terphenyl-d14       | 244       | 21.438                 | 21.422 | (0.918) | 546658   | 5.19475              | 5.195 (R)        |
| 67 Butylbenzylphthalate   | 149       | 22.375                 | 22.367 | (0.958) | 13014    | 0.15310              | 0.1531           |
| * 69 Chrysene-d12         | 240       | 23.358                 | 23.343 | (1.000) | 645854   | 4.00000              |                  |
| * 77 Perylene-d12         | 264       | 26.052                 | 26.029 | (1.000) | 745650   | 4.00000              |                  |
| 79 Dibenzo(a,h)anthracene | 278       | 28.821                 | 28.790 | (1.106) | 42445    | 0.17354              | 0.1735           |
| 90 N-Nitrosodimethylamine | 74        | Compound Not Detected. |        |         |          |                      |                  |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT1003222315S.D  
 Lab Smp Id: 23A0179-06  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Misc Info:

Calibration Date: 22-MAR-2023  
 Calibration Time: 18:20  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 135191   | 67596      | 270382  | 186026 | 37.60 |
| 27 Naphthalene-d8   | 487226   | 243613     | 974452  | 675158 | 38.57 |
| 42 Acenaphthene-d10 | 246588   | 123294     | 493176  | 332455 | 34.82 |
| 59 Phenanthrene-d10 | 479352   | 239676     | 958704  | 709699 | 48.05 |
| 69 Chrysene-d12     | 439791   | 219896     | 879582  | 645854 | 46.85 |
| 77 Perylene-d12     | 505700   | 252850     | 1011400 | 745650 | 47.45 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.09     | 8.59     | 9.59  | 9.09   | 0.00  |
| 27 Naphthalene-d8   | 11.57    | 11.07    | 12.07 | 11.58  | 0.07  |
| 42 Acenaphthene-d10 | 15.20    | 14.70    | 15.70 | 15.21  | 0.05  |
| 59 Phenanthrene-d10 | 18.25    | 17.75    | 18.75 | 18.26  | 0.04  |
| 69 Chrysene-d12     | 23.34    | 22.84    | 23.84 | 23.36  | 0.07  |
| 77 Perylene-d12     | 26.03    | 25.53    | 26.53 | 26.05  | 0.09  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222315S.D

Lab ID: 23A0179-06

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 23-MAR-2023 01:59

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

---

NONE

RRT check based on Ccal File: SIM.b/NT1003222303S.D

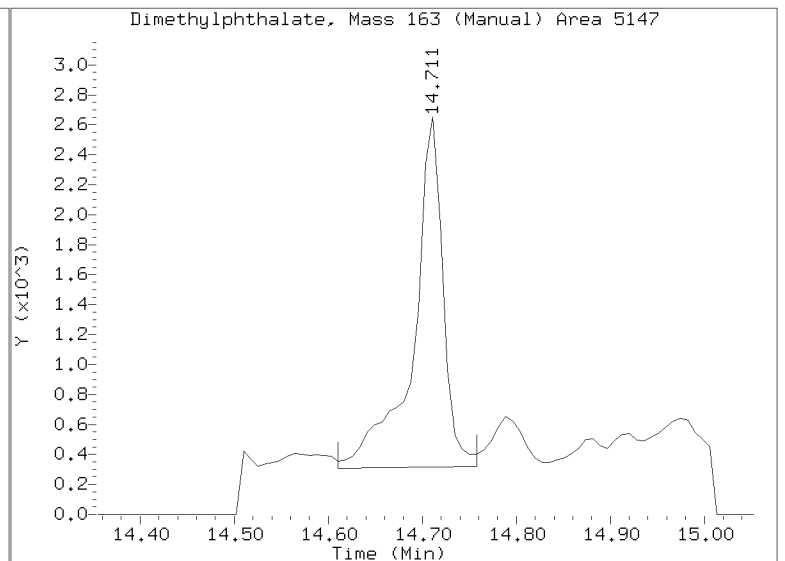
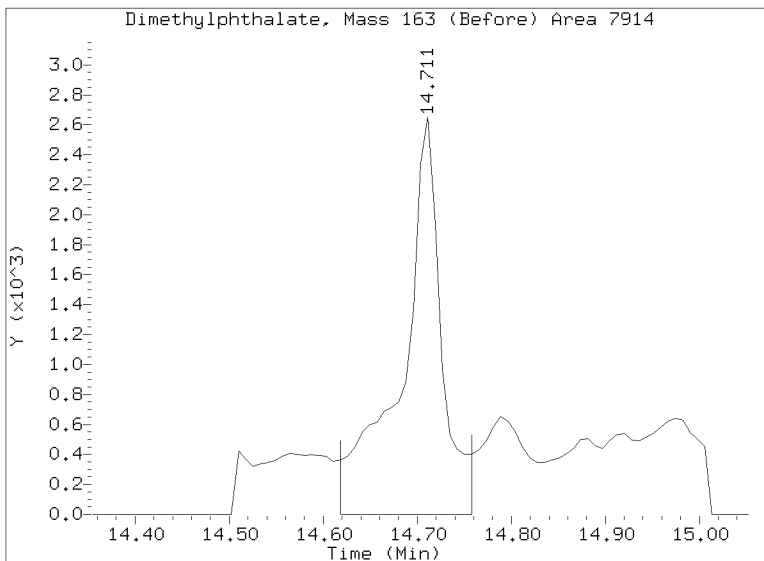
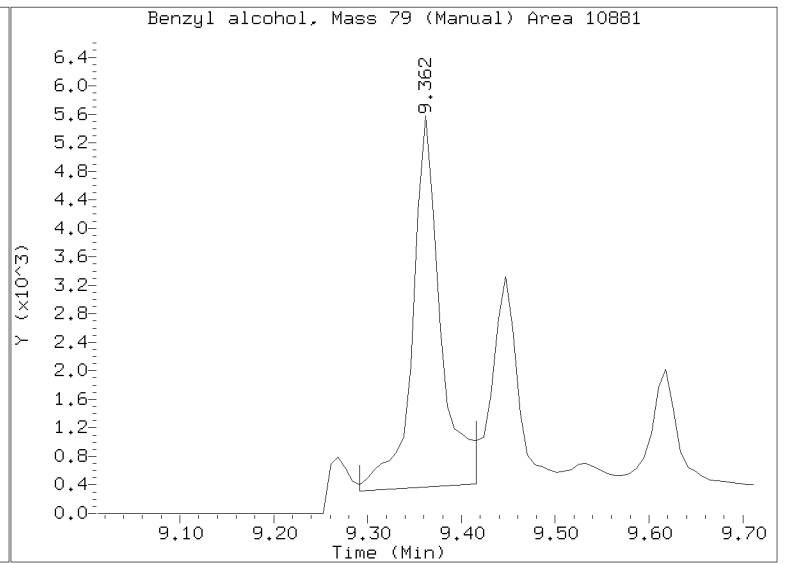
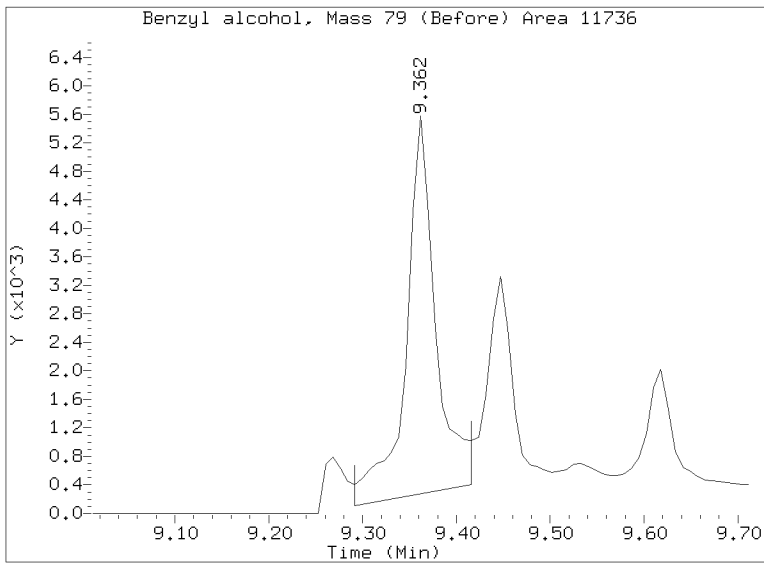
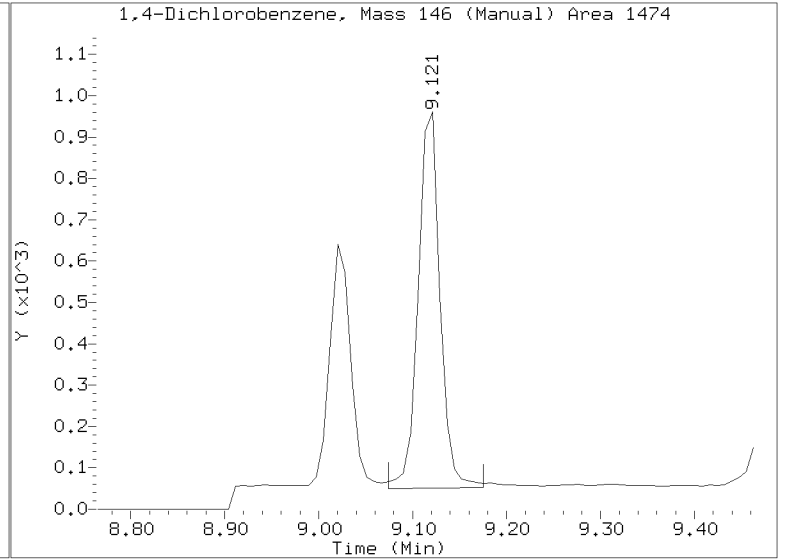
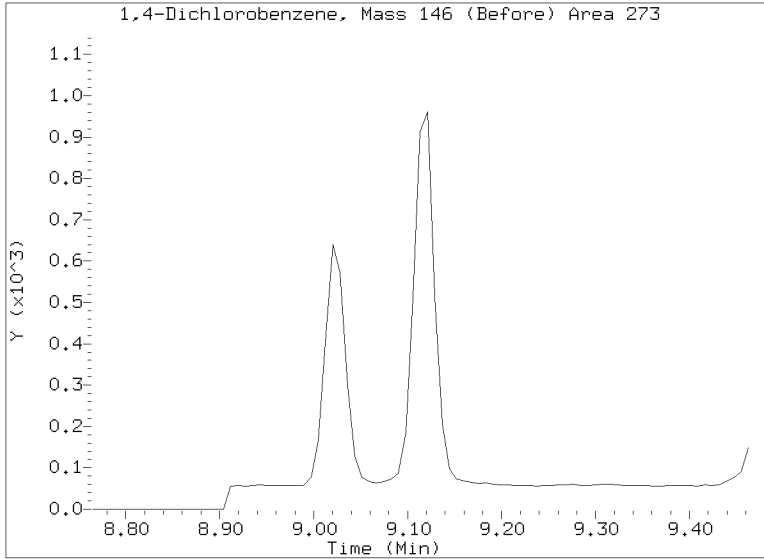
On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

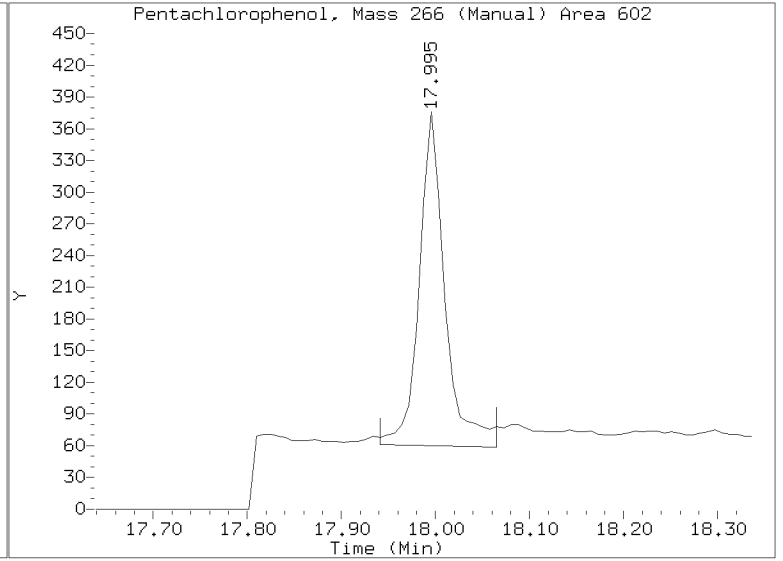
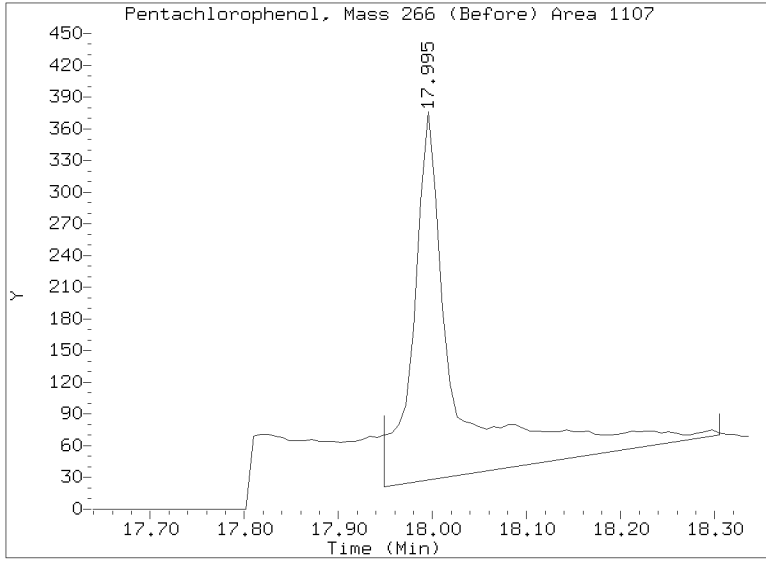
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222315S.D  
Injection Date: 23-MAR-2023 01:59  
Lab ID:23A0179-06 Client ID:  
Report Date: 03/25/2023 13:23



# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222315S.D  
Injection Date: 23-MAR-2023 01:59  
Lab ID:23A0179-06 Client ID:  
Report Date: 03/25/2023 13:23





Form I  
ORGANIC ANALYSIS DATA SHEET  
EPA 8270E-SIM  
SIM SVOC Organics (Dual scan list)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-07RE1 A

SDG: 23A0179

Sampled: 01/10/23 10:10

Prepared: 03/17/23 14:20

File ID: NT1003222316S.D

% Solids: 74.59

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 02:37

Batch: BLC0442

Sequence: SLC0407

Initial/Final: 13.41 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00049

Cleanups: GPC

| CAS NO.  | COMPOUND               | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|------------------------|----------|----------------------|---|------|------|
| 106-46-7 | 1,4-Dichlorobenzene    | 1        | 5.0                  | U | 0.6  | 5.0  |
| 95-50-1  | 1,2-Dichlorobenzene    | 1        | 5.0                  | U | 0.7  | 5.0  |
| 100-51-6 | Benzyl Alcohol         | 1        | 5.5                  | J | 2.5  | 20.0 |
| 65-85-0  | Benzoic acid           | 1        | 26.3                 | J | 13.4 | 100  |
| 105-67-9 | 2,4-Dimethylphenol     | 1        | 20.0                 | U | 2.2  | 20.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1        | 5.0                  | U | 2.7  | 5.0  |
| 86-30-6  | N-Nitrosodiphenylamine | 1        | 5.0                  | U | 1.3  | 5.0  |
| 87-86-5  | Pentachlorophenol      | 1        | 20.0                 | U | 2.1  | 20.0 |

| SURROGATES      | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|-----------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol  | 749.81                | 604                   | 80.5  | 27 - 120  |   |
| p-Terphenyl-d14 | 499.87                | 554                   | 111   | 37 - 120  |   |



Data File: \\target\share\chem3\nt10.1\20230322.16\SIM.B\NT1003222316S.D

Date: 23-MAR-2023 02:37

Client ID:

Sample Info: 23A0179-07

Volume Injected (uL): 1.0

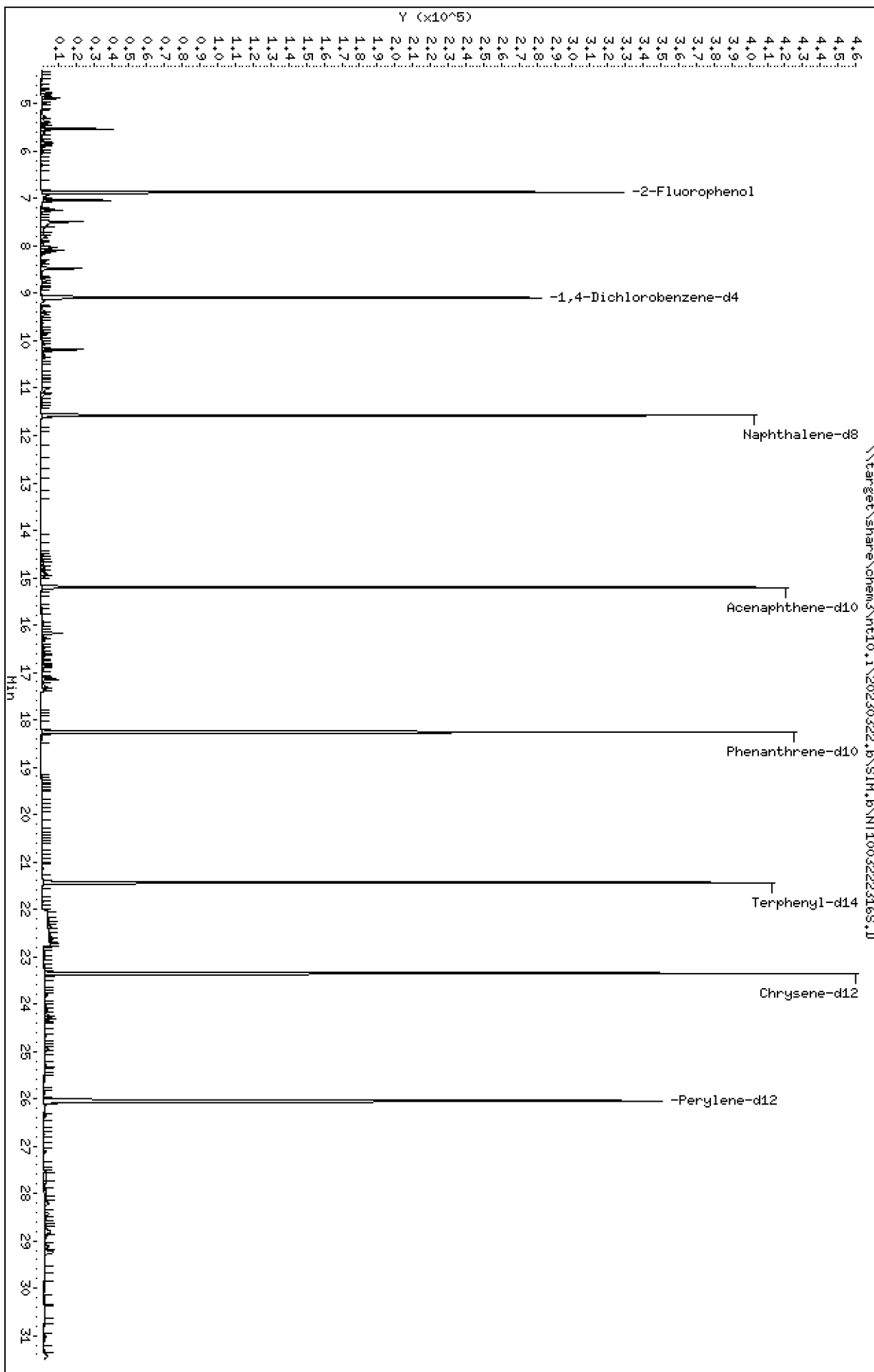
Column phase: ZB-5msi

Instrument: nt10.1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07

Volume Injected (uL): 1.0

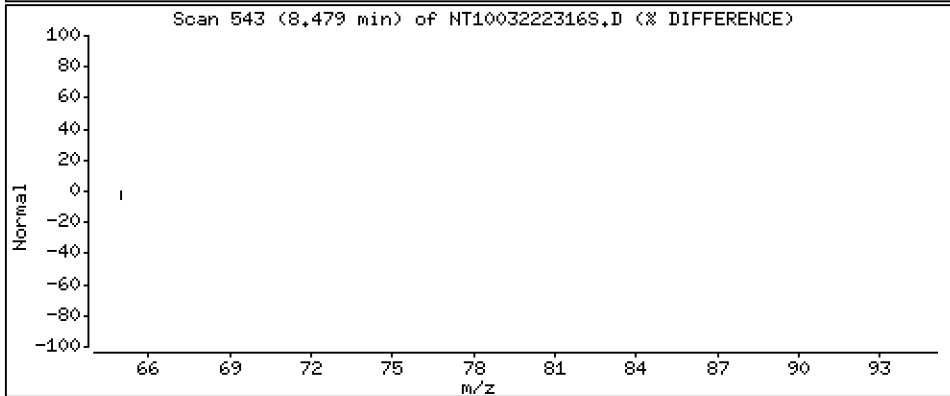
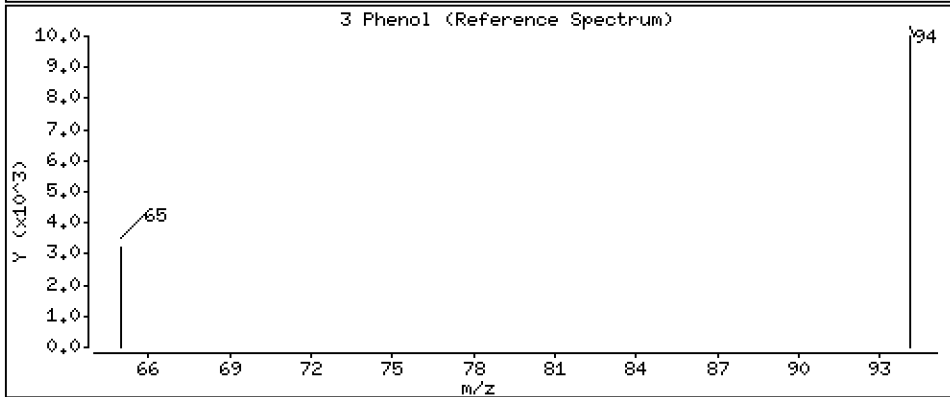
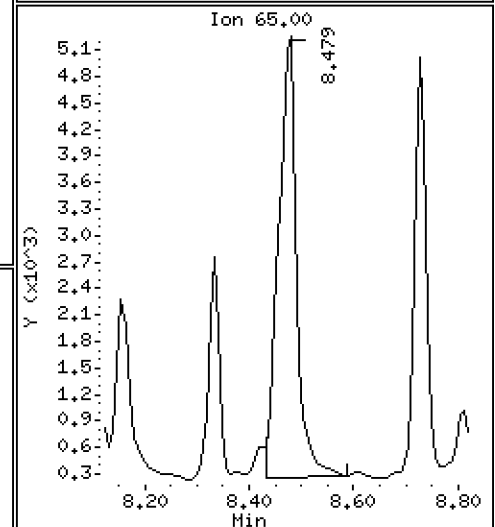
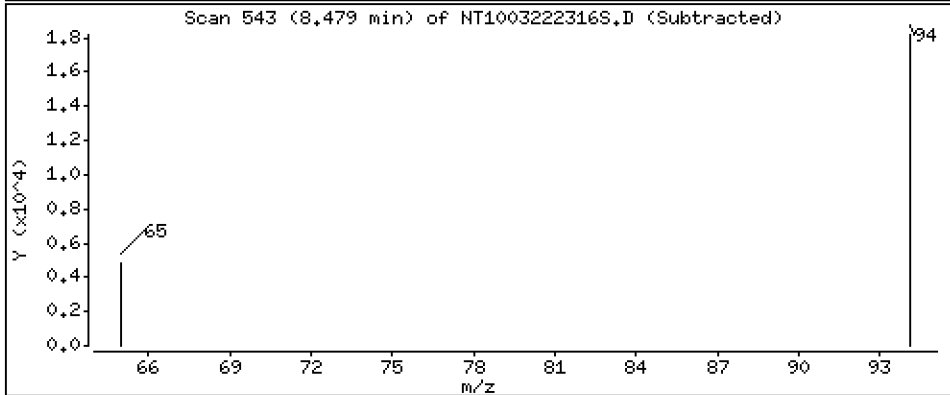
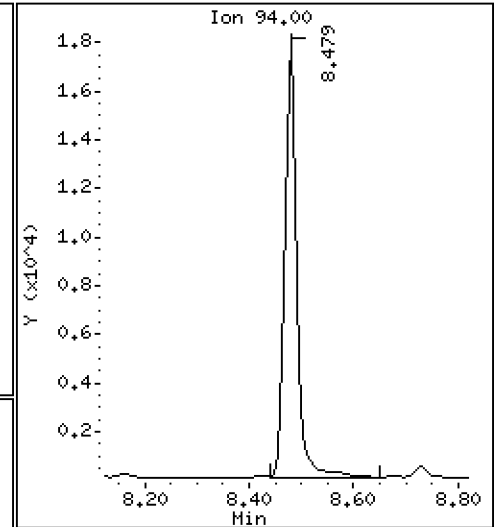
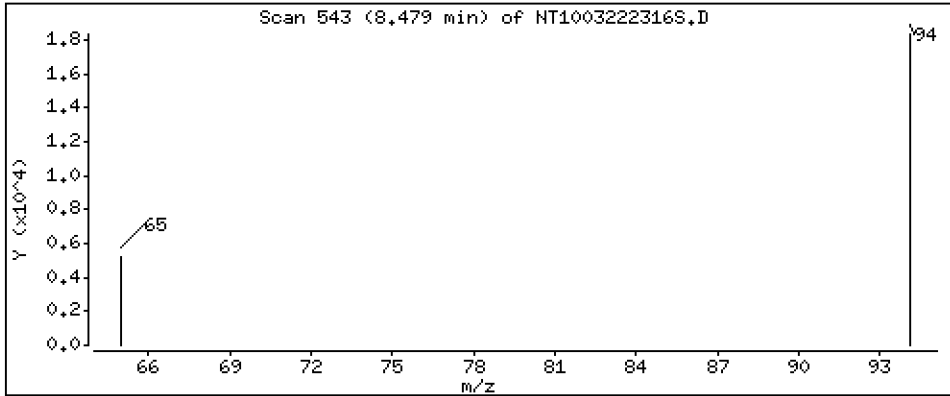
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 0.3690 ug/L



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07

Volume Injected (uL): 1.0

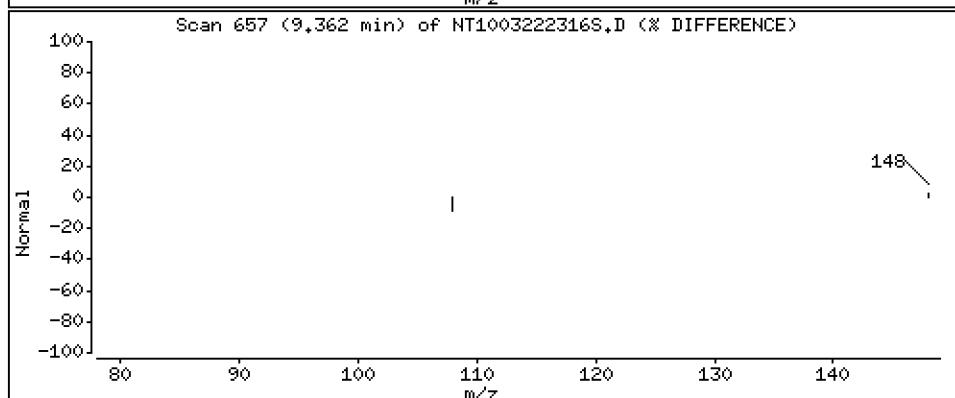
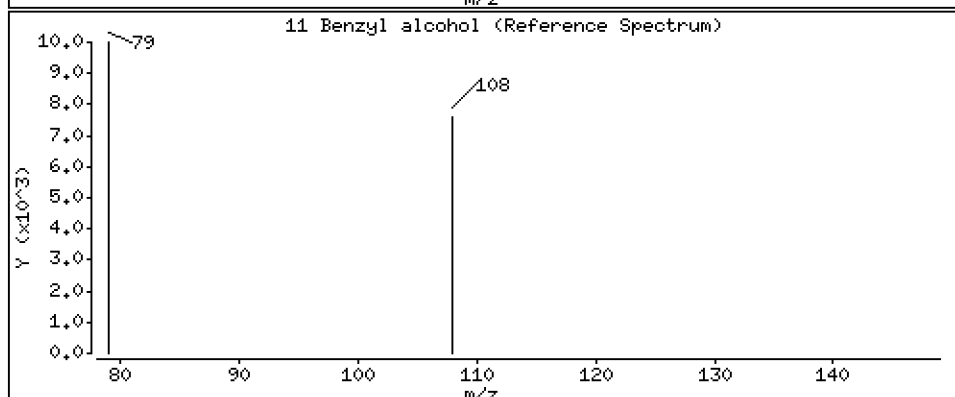
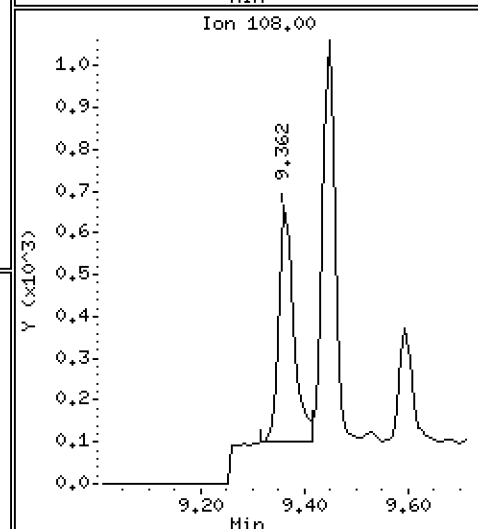
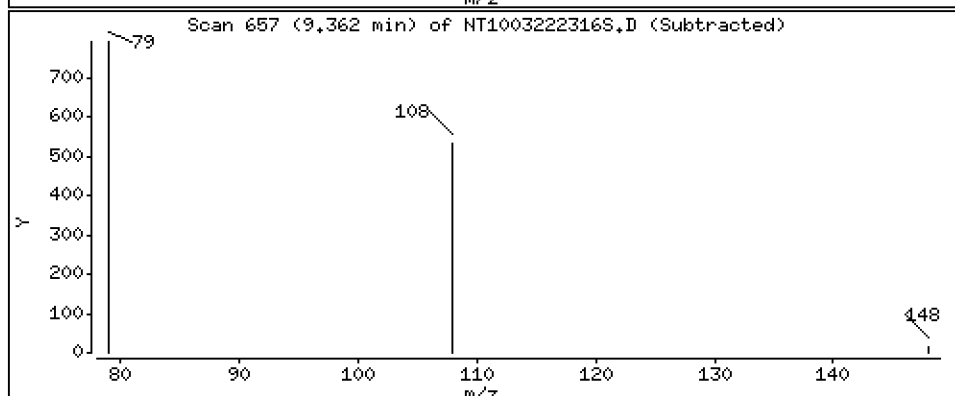
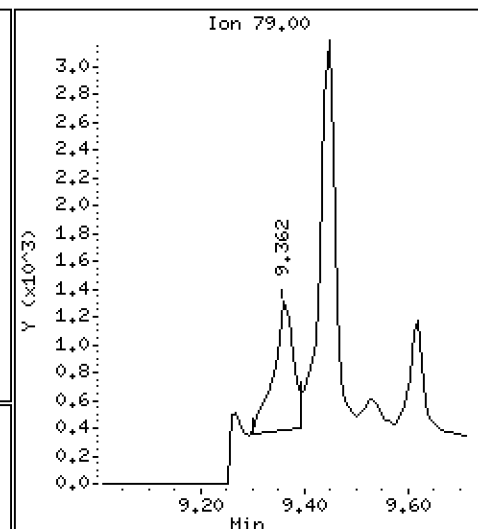
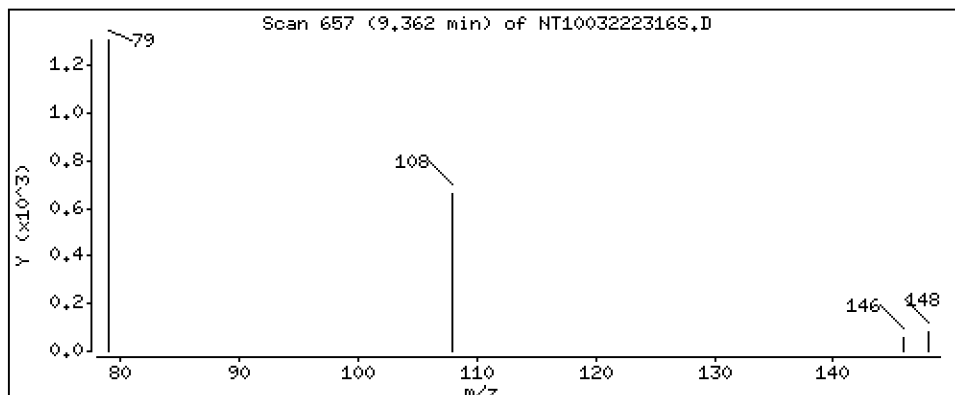
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.05520 ug/L



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07

Volume Injected (uL): 1.0

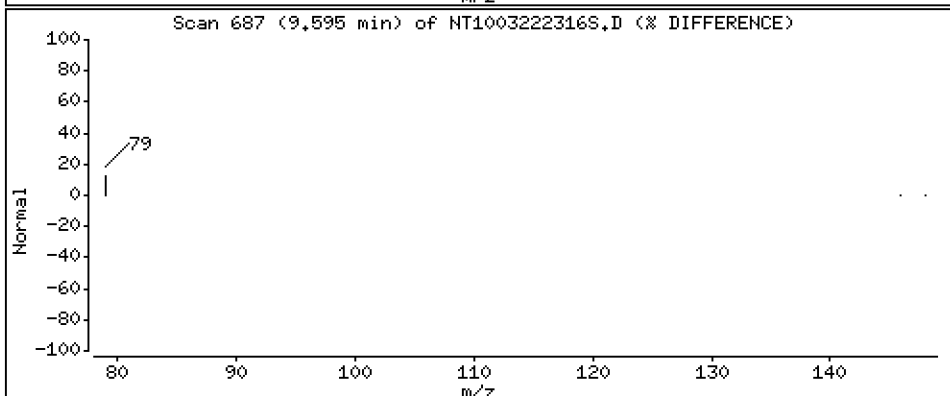
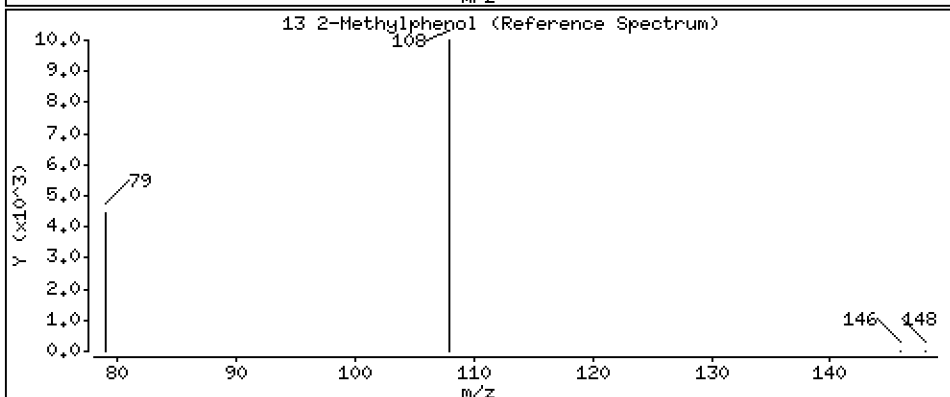
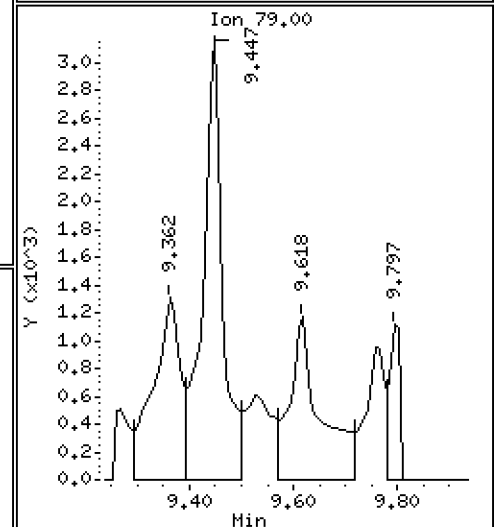
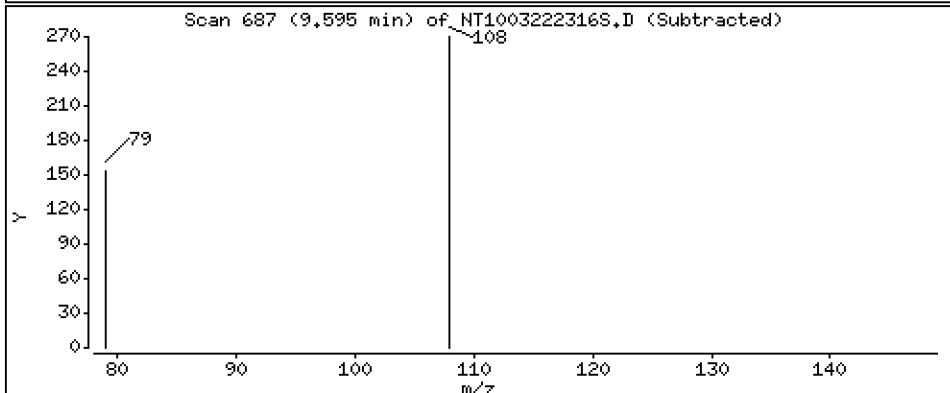
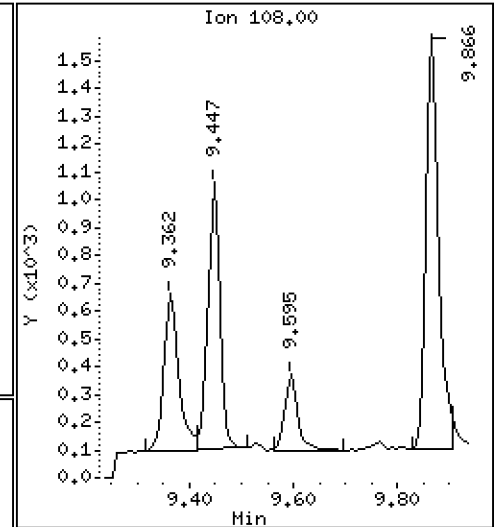
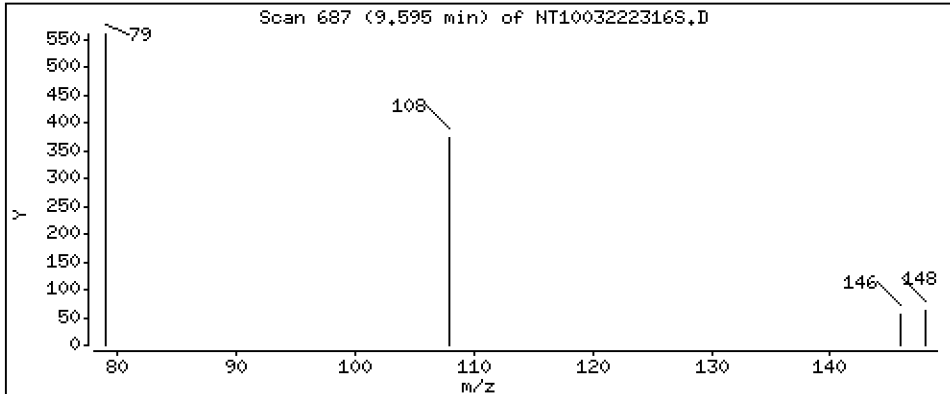
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.009160 ug/L



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07

Volume Injected (uL): 1.0

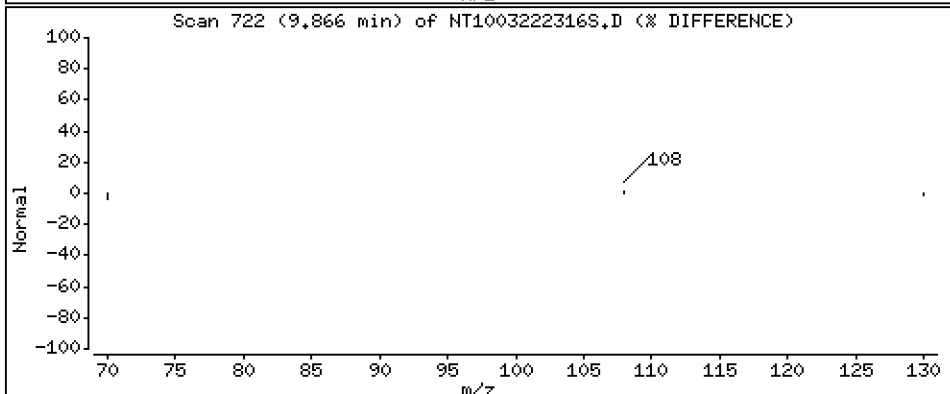
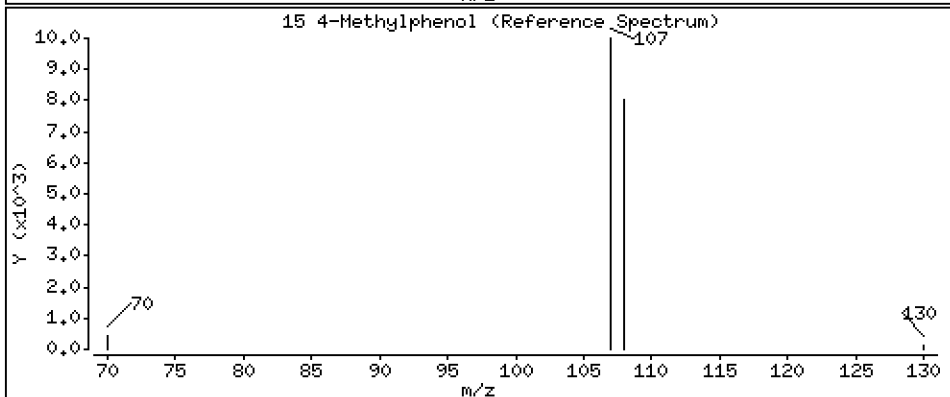
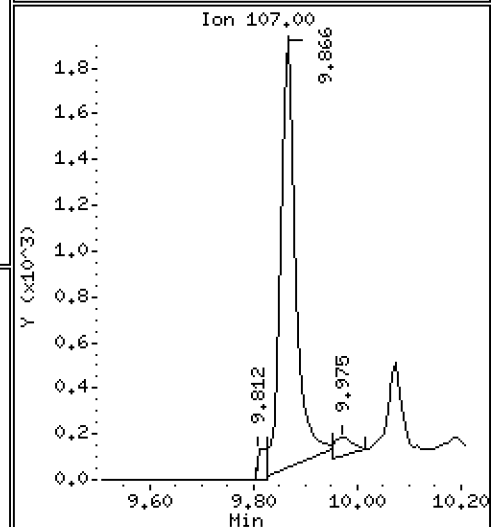
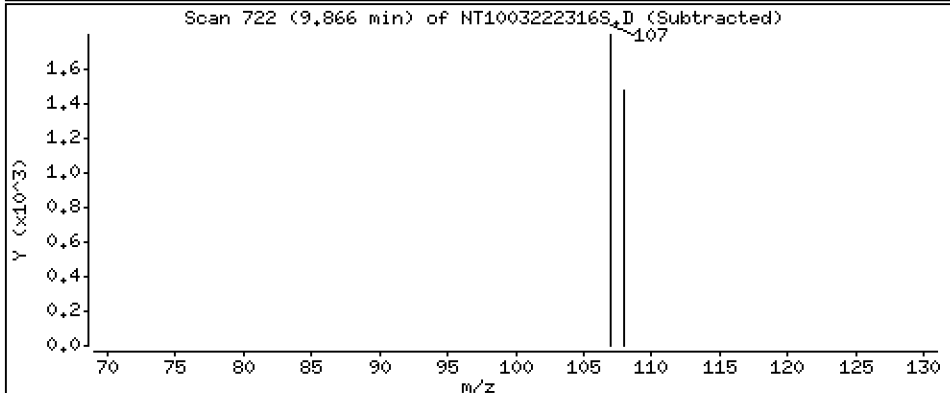
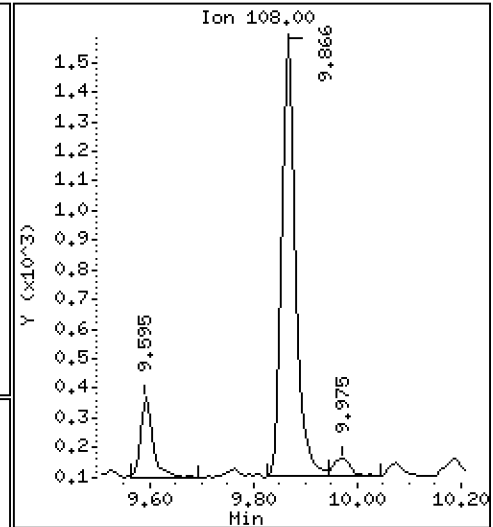
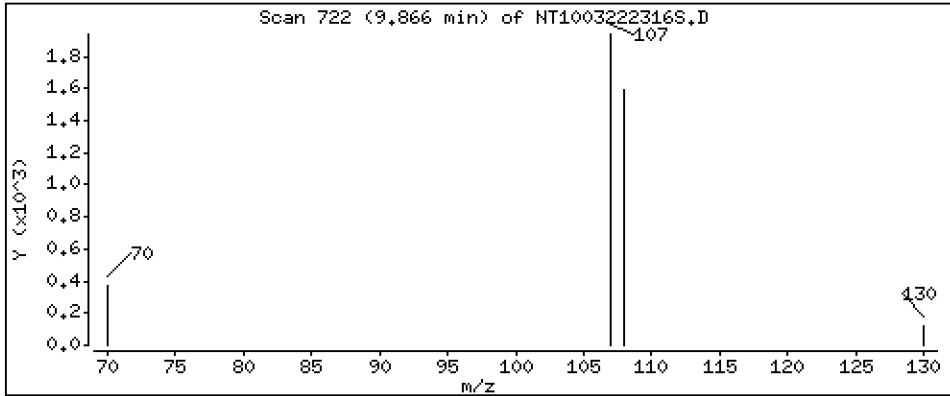
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.04996 ug/L



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07

Volume Injected (uL): 1.0

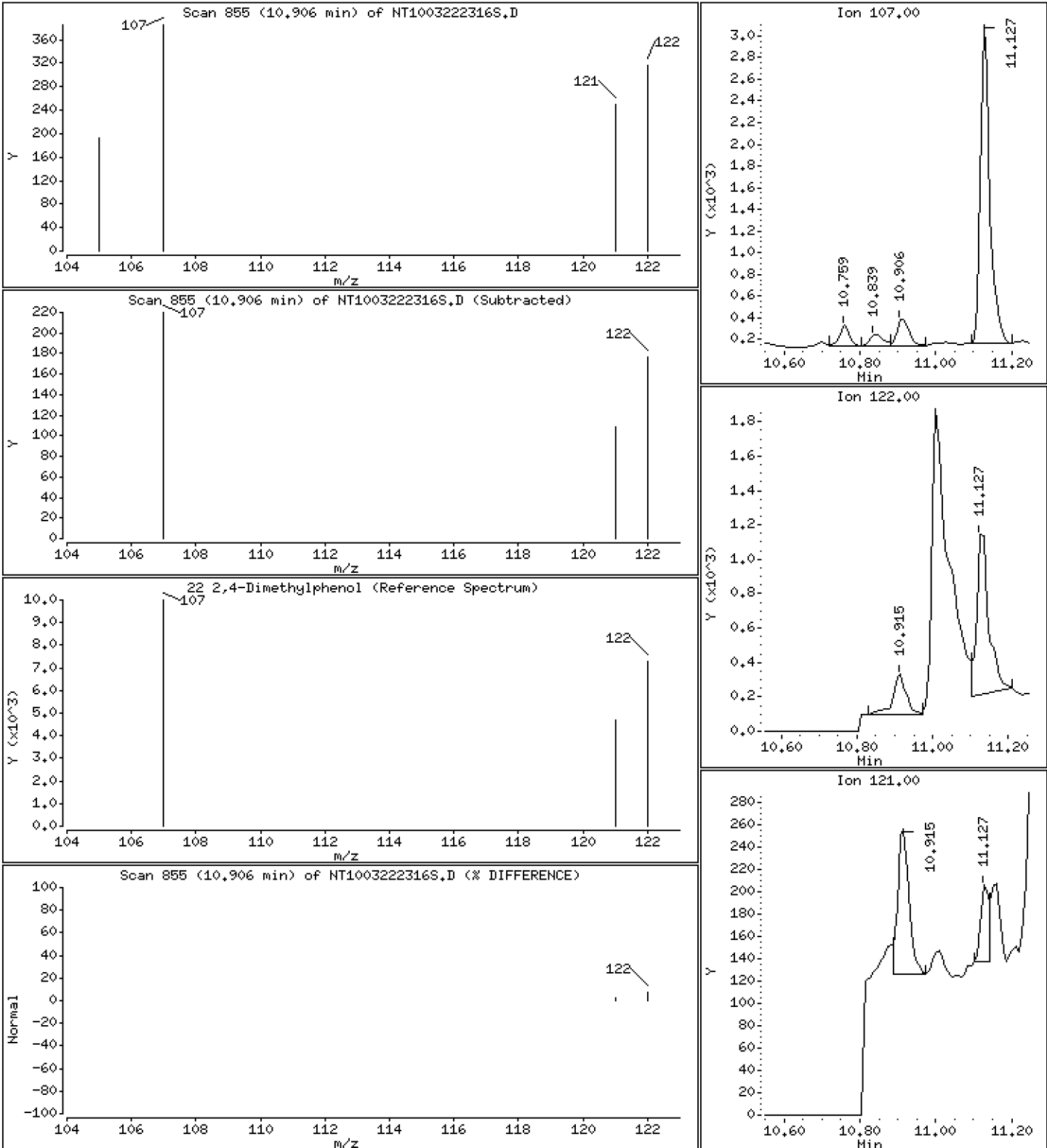
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 0.01015 ug/L



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07

Volume Injected (uL): 1.0

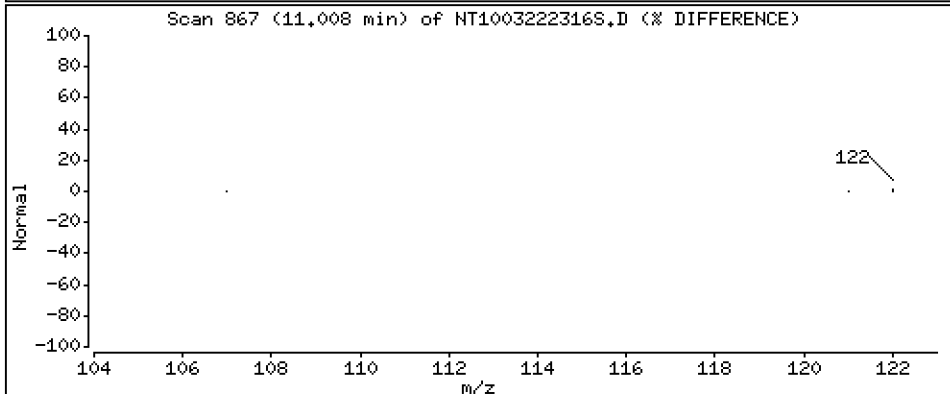
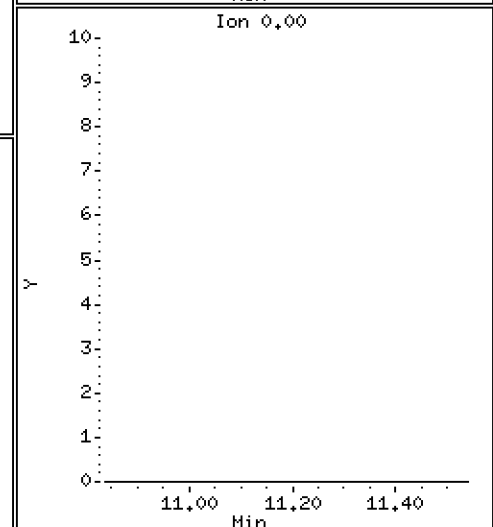
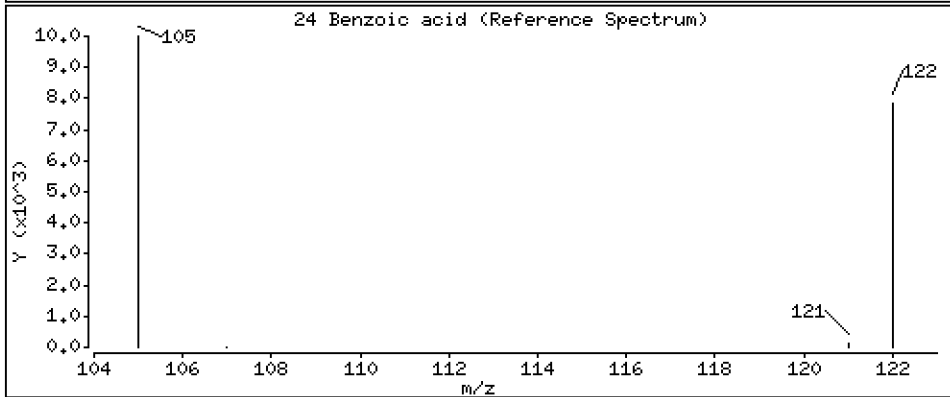
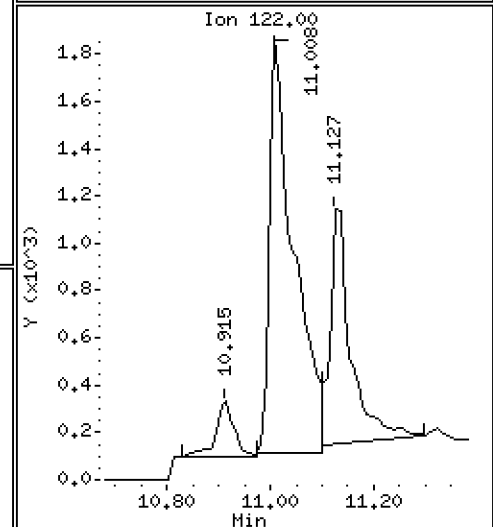
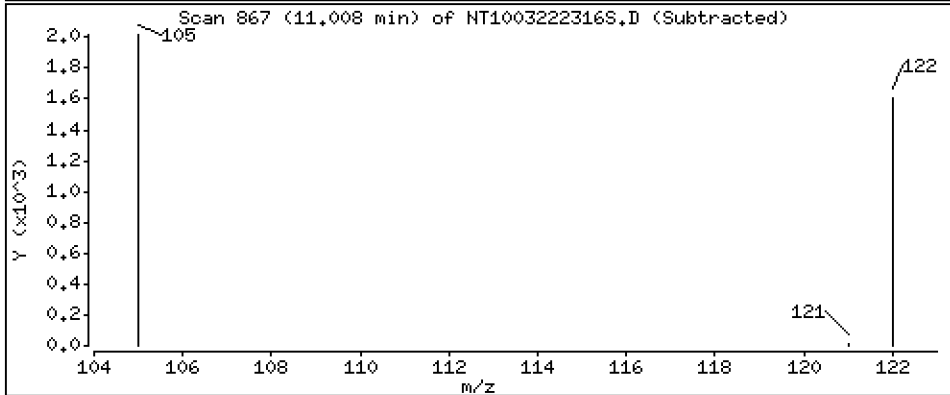
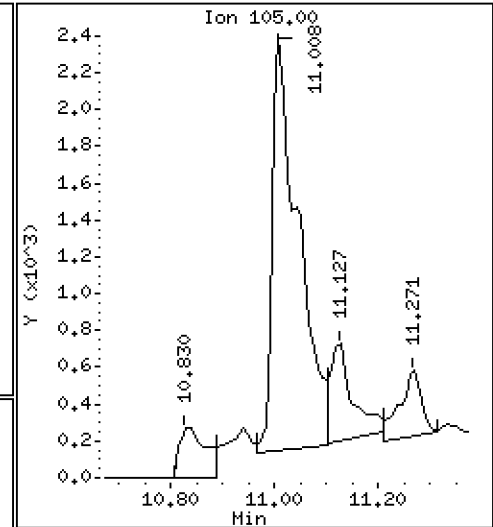
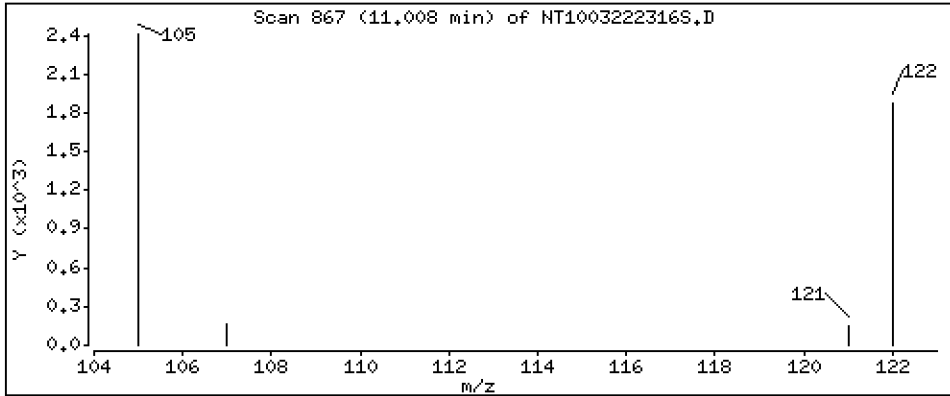
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.2634 ug/L



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07

Volume Injected (uL): 1.0

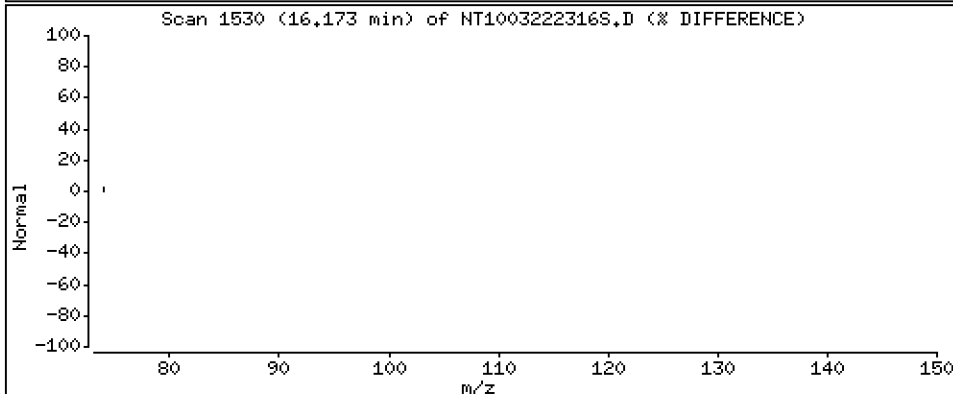
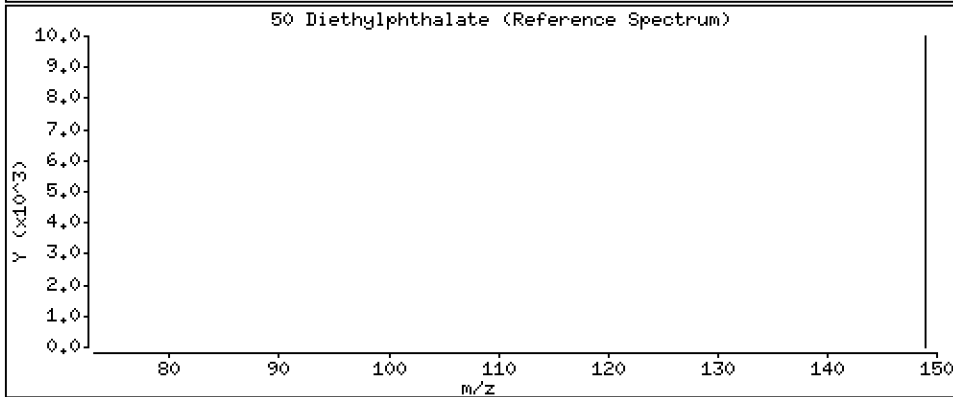
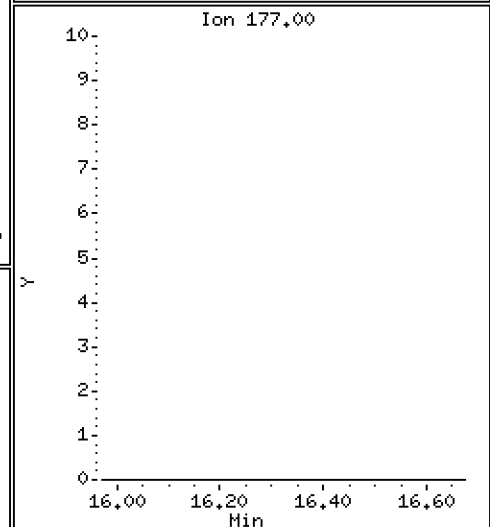
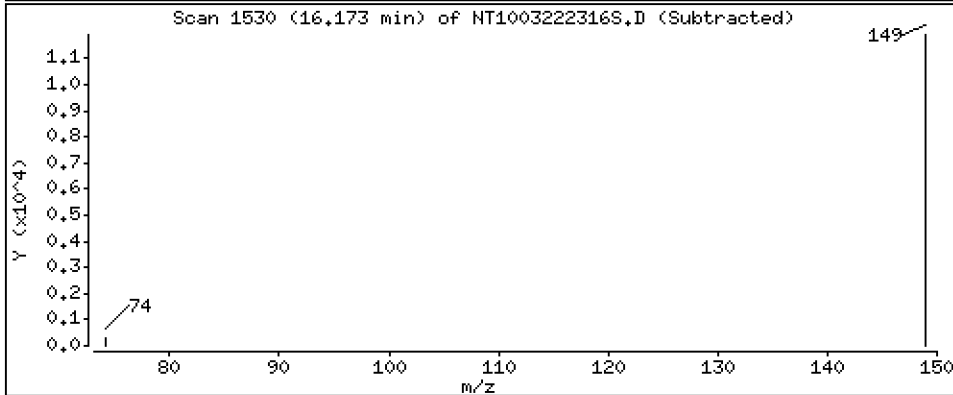
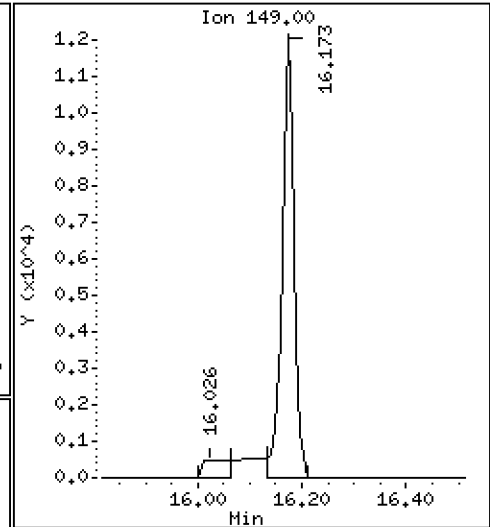
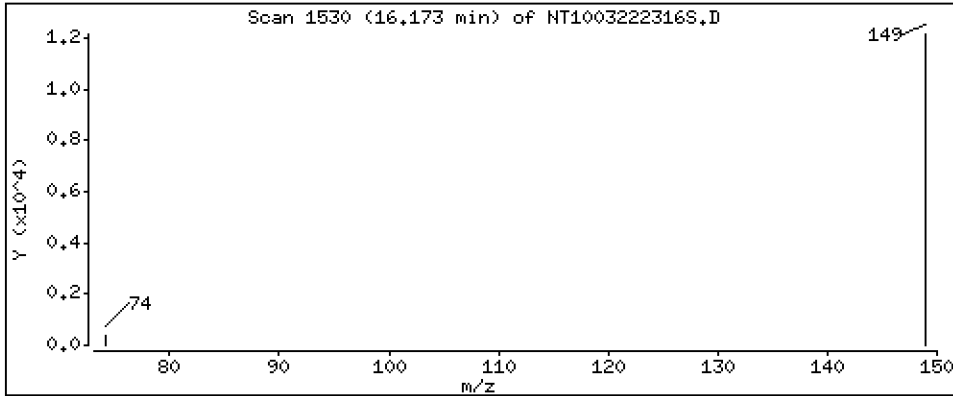
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,1899 ug/L





Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07

Volume Injected (uL): 1.0

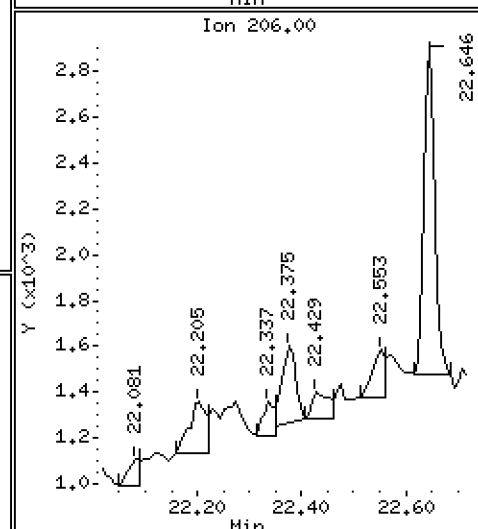
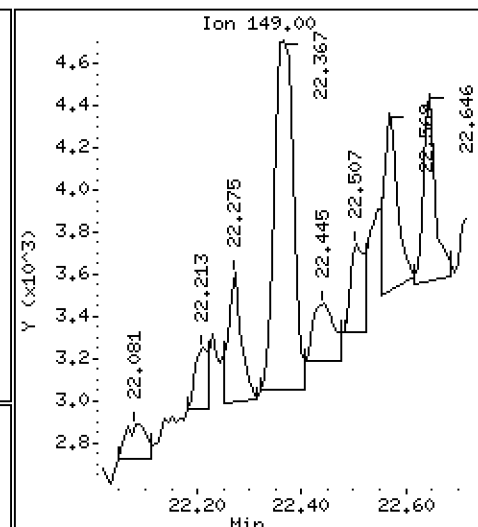
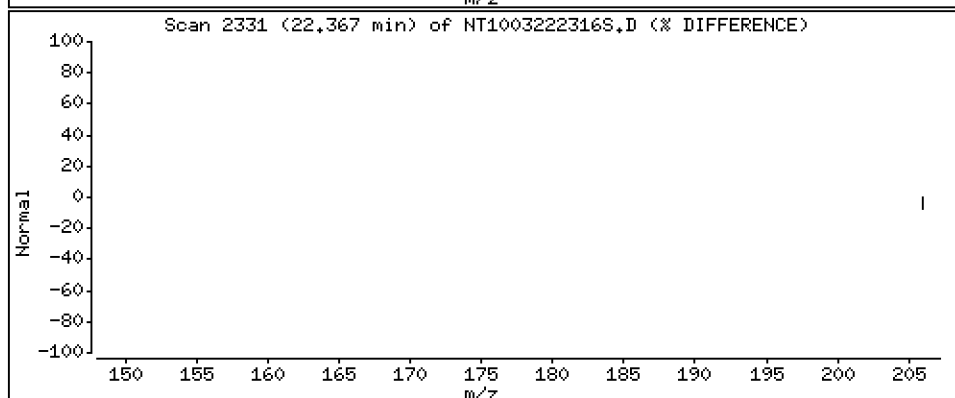
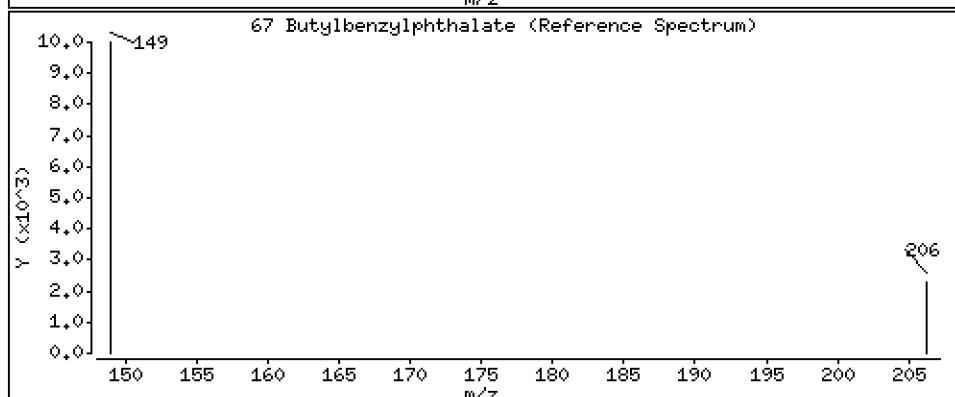
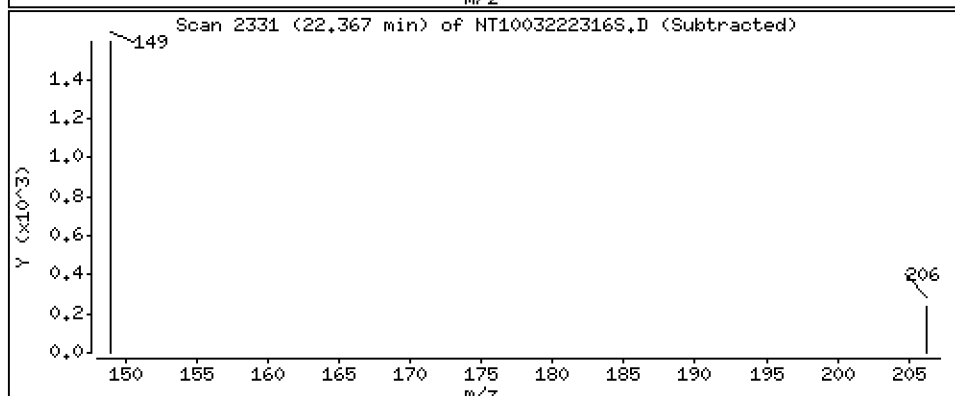
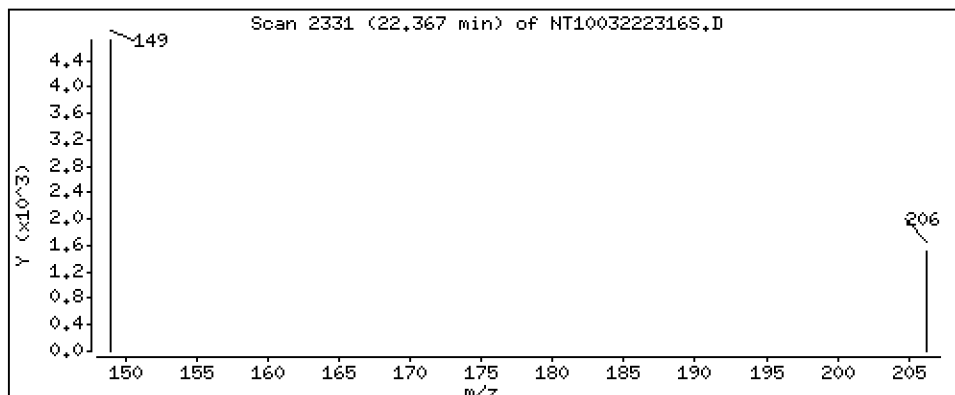
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,05377 ug/L



Date : 23-MAR-2023 02:37

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-07

Volume Injected (uL): 1.0

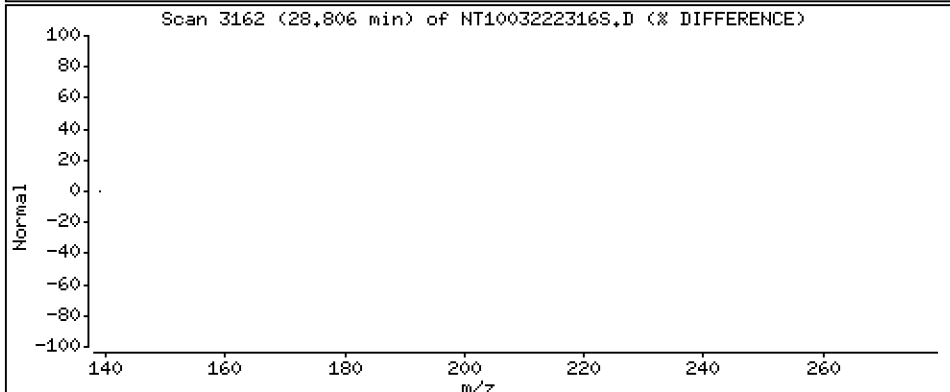
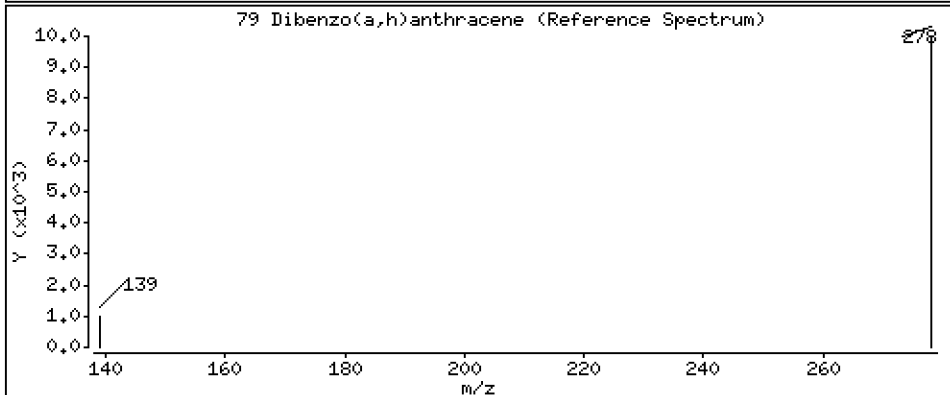
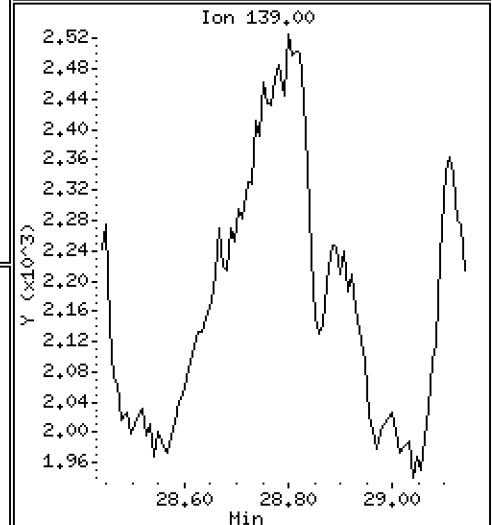
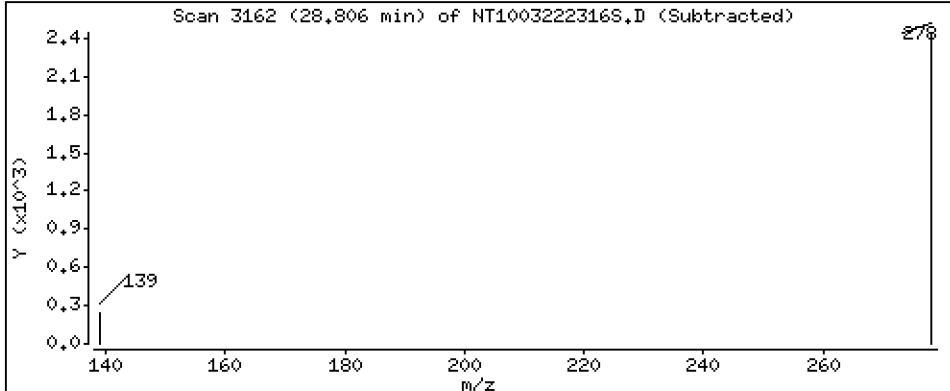
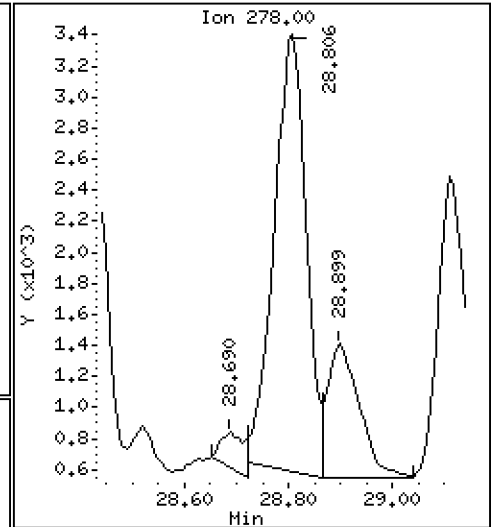
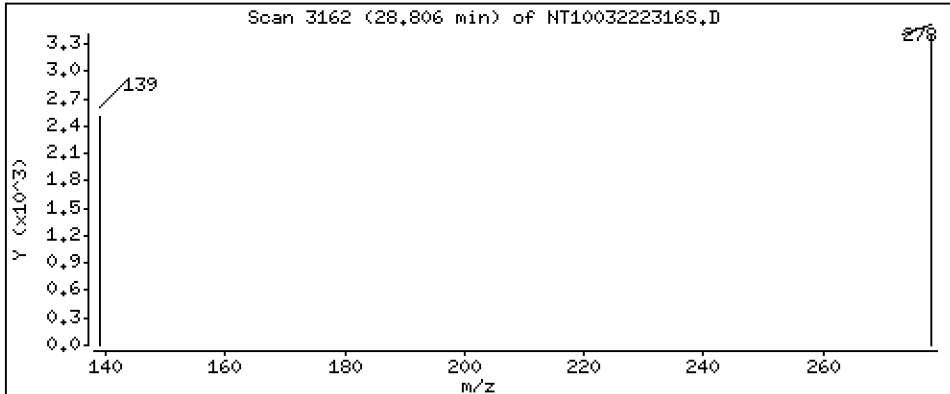
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,05438 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222316S.D  
 Lab Smp Id: 23A0179-07  
 Inj Date : 23-MAR-2023 02:37 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : 23A0179-07  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Meth Date : 25-Mar-2023 13:23 yev Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 16  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: ORGDATA102

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT     | EXP RT         | REL RT | RESPONSE               | CONCENTRATIONS |             |
|-------------------------------|-------|-----|--------|----------------|--------|------------------------|----------------|-------------|
|                               |       |     |        |                |        |                        | ON-COLUMN      | FINAL       |
|                               | MASS  |     |        |                |        |                        | (ug/mL)        | ( ug/L)     |
| \$ 1 2-Fluorophenol           | 112   |     | 6.864  | 6.856 (0.755)  |        | 327964                 | 6.03766        | 6.038 (R)   |
| 3 Phenol                      | 94    |     | 8.479  | 8.471 (0.933)  |        | 27502                  | 0.36904        | 0.3690      |
| 7 1,3-Dichlorobenzene         | 146   |     |        |                |        | Compound Not Detected. |                |             |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.090  | 9.090 (1.000)  |        | 179128                 | 4.00000        |             |
| 9 1,4-Dichlorobenzene         | 146   |     |        |                |        | Compound Not Detected. |                |             |
| 11 Benzyl alcohol             | 79    |     | 9.361  | 9.361 (1.030)  |        | 2385                   | 0.05520        | 0.05520 (M) |
| 12 1,2-Dichlorobenzene        | 146   |     |        |                |        | Compound Not Detected. |                |             |
| 13 2-Methylphenol             | 108   |     | 9.594  | 9.586 (1.056)  |        | 473                    | 0.00916        | 0.009160    |
| 15 4-Methylphenol             | 108   |     | 9.866  | 9.858 (1.085)  |        | 2681                   | 0.04996        | 0.04996     |
| 16 N-Nitroso-di-n-propylamine | 70    |     |        |                |        | Compound Not Detected. |                |             |
| 22 2,4-Dimethylphenol         | 107   |     | 10.906 | 10.897 (0.942) |        | 558                    | 0.01015        | 0.01015     |
| 24 Benzoic acid               | 105   |     | 11.008 | 11.025 (0.951) |        | 7924                   | 0.26338        | 0.2634      |
| 26 1,2,4-Trichlorobenzene     | 180   |     |        |                |        | Compound Not Detected. |                |             |
| * 27 Naphthalene-d8           | 136   |     | 11.577 | 11.569 (1.000) |        | 636177                 | 4.00000        |             |
| 30 Hexachlorobutadiene        | 225   |     |        |                |        | Compound Not Detected. |                |             |
| 39 Dimethylphthalate          | 163   |     |        |                |        | Compound Not Detected. |                |             |
| * 42 Acenaphthene-d10         | 162   |     | 15.206 | 15.198 (1.000) |        | 313559                 | 4.00000        |             |
| 50 Diethylphthalate           | 149   |     | 16.172 | 16.165 (1.064) |        | 19468                  | 0.18992        | 0.1899      |
| 54 N-Nitrosodiphenylamine     | 169   |     |        |                |        | Compound Not Detected. |                |             |
| 57 Hexachlorobenzene          | 284   |     |        |                |        | Compound Not Detected. |                |             |

| Compounds                 | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |           |
|---------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-----------|
|                           |       |     |                        |        |         |          | ON-COLUMN      | FINAL     |
|                           | MASS  |     |                        |        |         |          | (ug/mL)        | ( ug/L)   |
| =====                     | ===== |     | =====                  | =====  | =====   | =====    | =====          | =====     |
| 58 Pentachlorophenol      | 266   |     | Compound Not Detected. |        |         |          |                |           |
| * 59 Phenanthrene-d10     | 188   |     | 18.258                 | 18.250 | (1.000) | 658568   | 4.00000        |           |
| \$ 66 Terphenyl-d14       | 244   |     | 21.438                 | 21.422 | (0.918) | 526353   | 5.54424        | 5.544 (R) |
| 67 Butylbenzylphthalate   | 149   |     | 22.367                 | 22.367 | (0.958) | 4119     | 0.05377        | 0.05377   |
| * 69 Chrysene-d12         | 240   |     | 23.358                 | 23.343 | (1.000) | 582665   | 4.00000        |           |
| * 77 Perylene-d12         | 264   |     | 26.045                 | 26.029 | (1.000) | 696672   | 4.00000        |           |
| 79 Dibenzo(a,h)anthracene | 278   |     | 28.806                 | 28.790 | (1.106) | 12436    | 0.05438        | 0.05438   |
| 90 N-Nitrosodimethylamine | 74    |     | Compound Not Detected. |        |         |          |                |           |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT1003222316S.D  
 Lab Smp Id: 23A0179-07  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Misc Info:

Calibration Date: 22-MAR-2023  
 Calibration Time: 18:20  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 135191   | 67596      | 270382  | 179128 | 32.50 |
| 27 Naphthalene-d8   | 487226   | 243613     | 974452  | 636177 | 30.57 |
| 42 Acenaphthene-d10 | 246588   | 123294     | 493176  | 313559 | 27.16 |
| 59 Phenanthrene-d10 | 479352   | 239676     | 958704  | 658568 | 37.39 |
| 69 Chrysene-d12     | 439791   | 219896     | 879582  | 582665 | 32.49 |
| 77 Perylene-d12     | 505700   | 252850     | 1011400 | 696672 | 37.76 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.09     | 8.59     | 9.59  | 9.09   | 0.00  |
| 27 Naphthalene-d8   | 11.57    | 11.07    | 12.07 | 11.58  | 0.07  |
| 42 Acenaphthene-d10 | 15.20    | 14.70    | 15.70 | 15.21  | 0.05  |
| 59 Phenanthrene-d10 | 18.25    | 17.75    | 18.75 | 18.26  | 0.04  |
| 69 Chrysene-d12     | 23.34    | 22.84    | 23.84 | 23.36  | 0.07  |
| 77 Perylene-d12     | 26.03    | 25.53    | 26.53 | 26.05  | 0.06  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222316S.D

Lab ID: 23A0179-07

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 23-MAR-2023 02:37

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

---

NONE

RRT check based on Ccal File: SIM.b/NT1003222303S.D

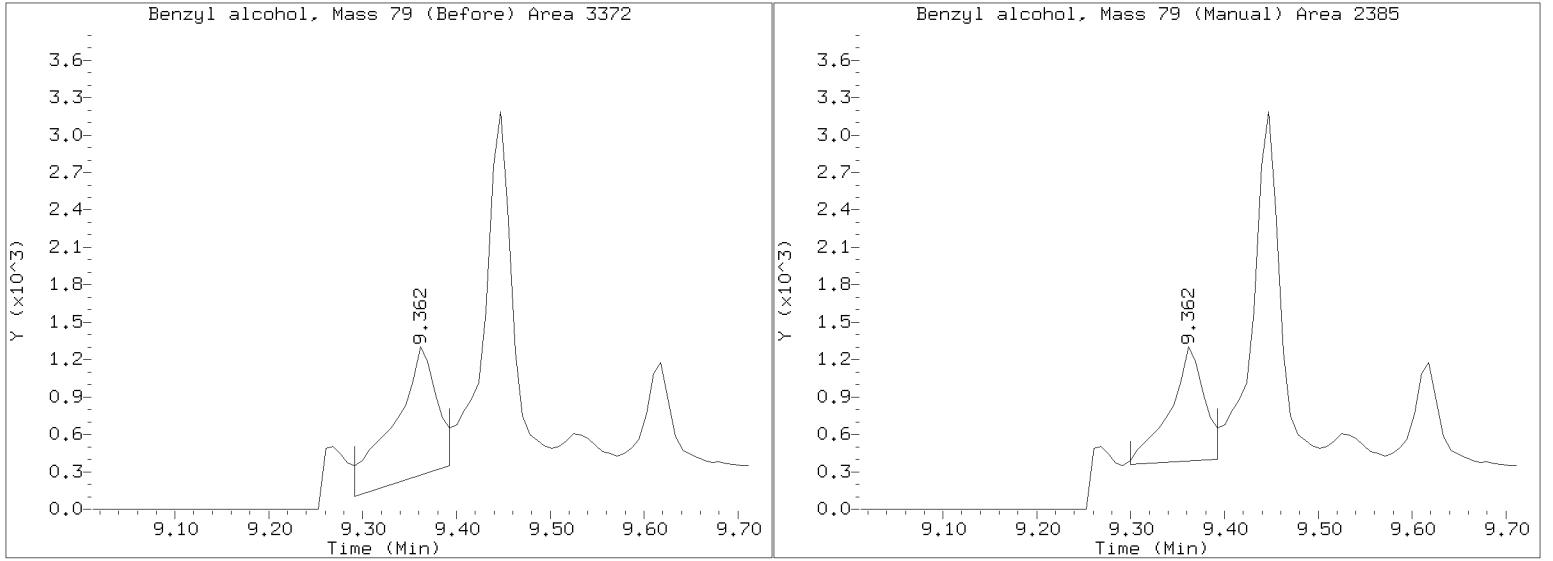
On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222316S.D  
Injection Date: 23-MAR-2023 02:37  
Lab ID: 23A0179-07 Client ID:  
Report Date: 03/25/2023 13:23





Form I  
ORGANIC ANALYSIS DATA SHEET  
EPA 8270E-SIM  
SIM SVOC Organics (Dual scan list)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-08RE1 A

SDG: 23A0179

Sampled: 01/10/23 10:56

Prepared: 03/17/23 14:20

File ID: NT1003222324S.D

% Solids: 61.36

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 07:39

Batch: BLC0442

Sequence: SLC0407

Initial/Final: 16.95 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00049

Cleanups: GPC

| CAS NO.  | COMPOUND               | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|------------------------|----------|----------------------|---|------|------|
| 106-46-7 | 1,4-Dichlorobenzene    | 1        | 1.8                  | J | 0.6  | 4.8  |
| 95-50-1  | 1,2-Dichlorobenzene    | 1        | 4.8                  | U | 0.7  | 4.8  |
| 100-51-6 | Benzyl Alcohol         | 1        | 28.5                 |   | 2.4  | 19.2 |
| 65-85-0  | Benzoic acid           | 1        | 94.9                 | J | 12.9 | 96.1 |
| 105-67-9 | 2,4-Dimethylphenol     | 1        | 4.4                  | J | 2.1  | 19.2 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1        | 4.8                  | U | 2.6  | 4.8  |
| 86-30-6  | N-Nitrosodiphenylamine | 1        | 4.8                  | U | 1.3  | 4.8  |
| 87-86-5  | Pentachlorophenol      | 1        | 5.4                  | J | 2.0  | 19.2 |

| SURROGATES      | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|-----------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol  | 721.12                | 539                   | 74.8  | 27 - 120  |   |
| p-Terphenyl-d14 | 480.75                | 488                   | 102   | 37 - 120  |   |



Data File: \\target\share\chem3\nt10.1\20230322.16\SIH.6\NT1003222324S.D

Date: 23-MAR-2023 07:39

Client ID:

Sample Info: 23A0179-08

Volume Injected (uL): 1.0

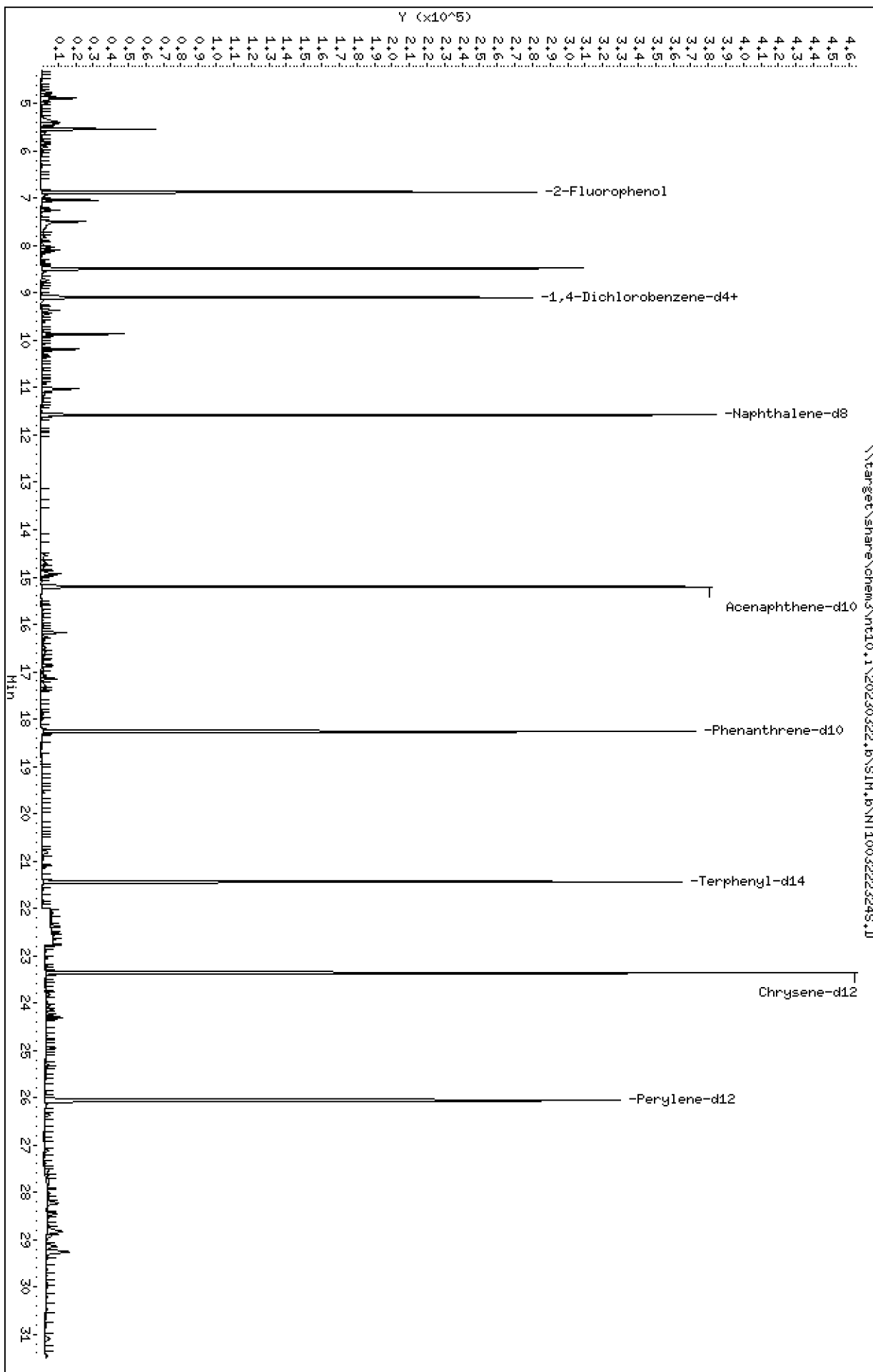
Column phase: ZB-5msi

Instrument: nt10.1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08

Volume Injected (uL): 1.0

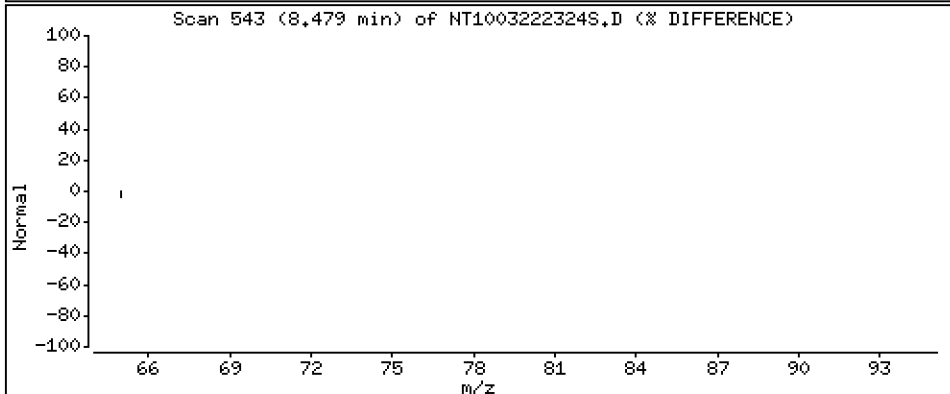
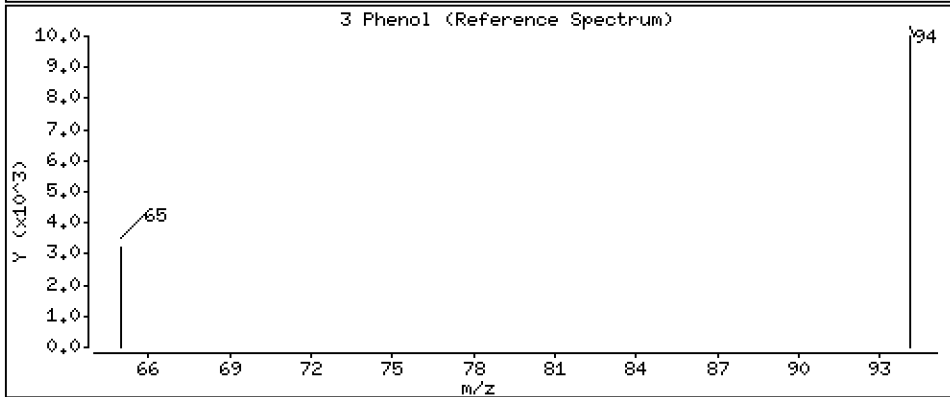
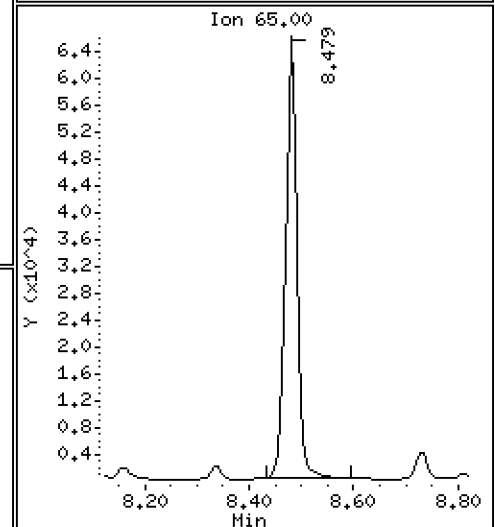
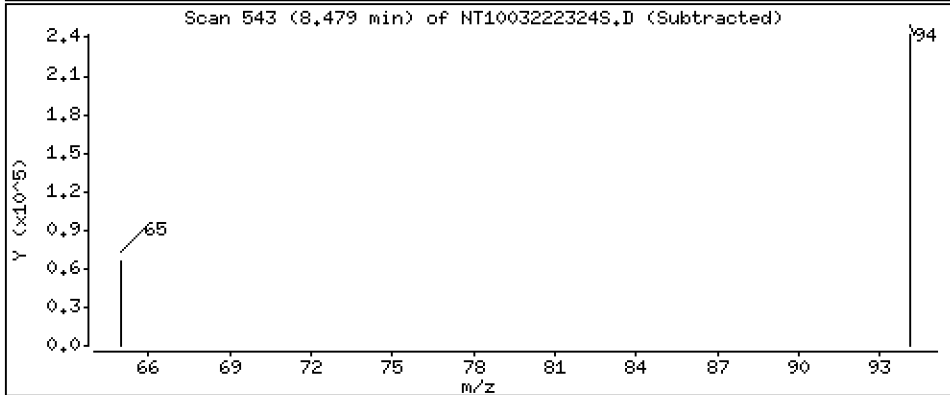
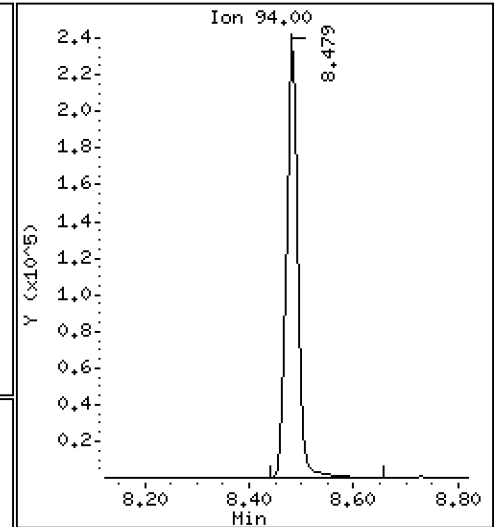
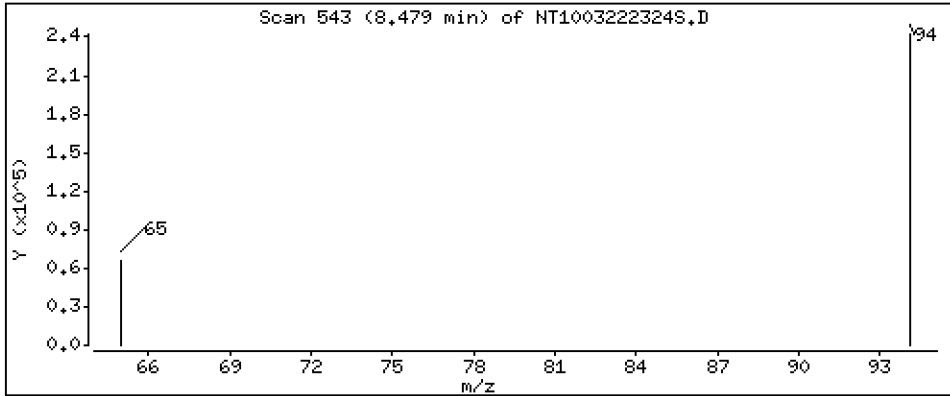
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 5,227 ug/L



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08

Volume Injected (uL): 1.0

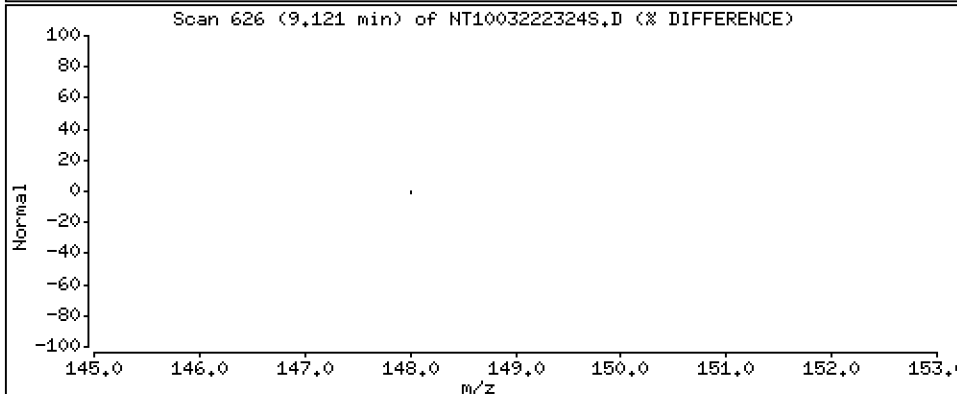
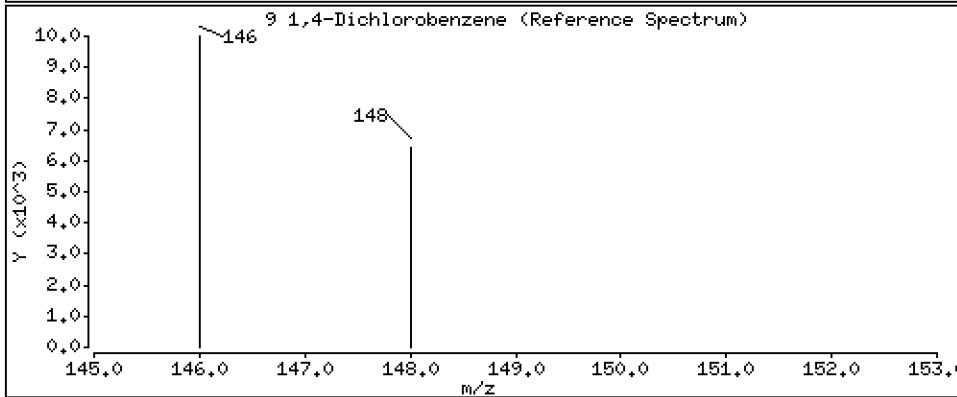
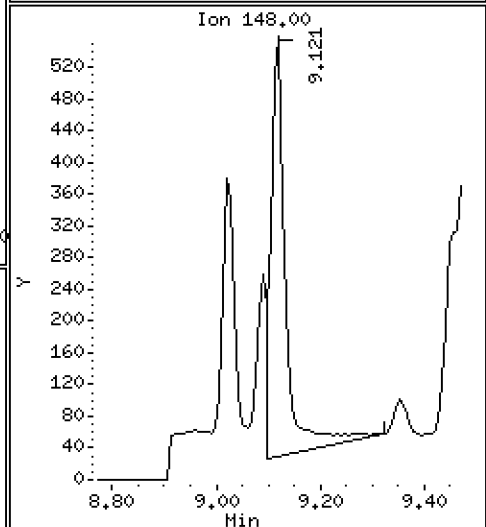
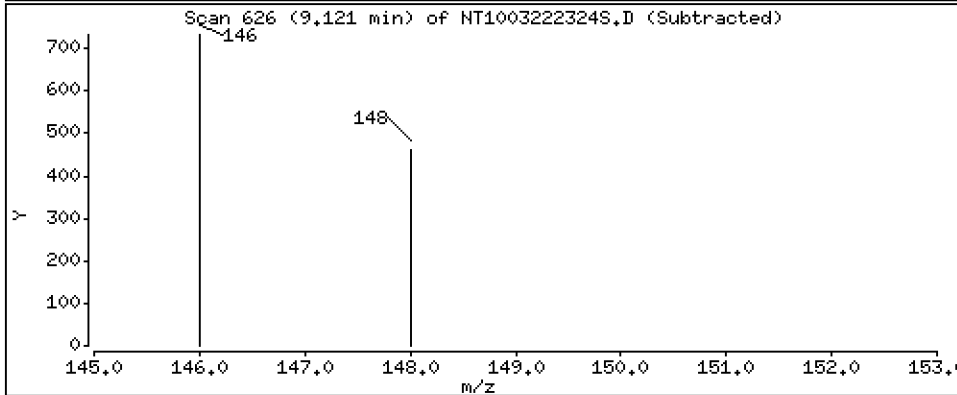
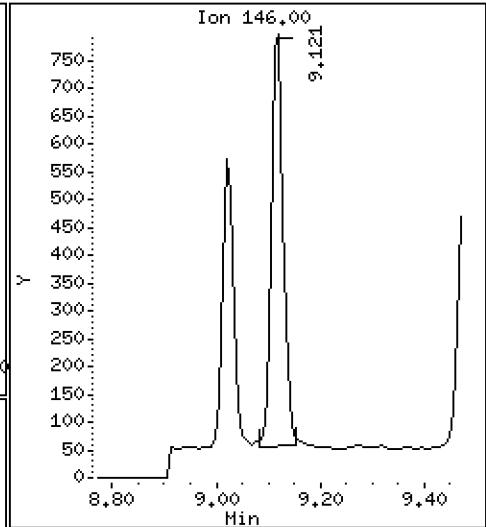
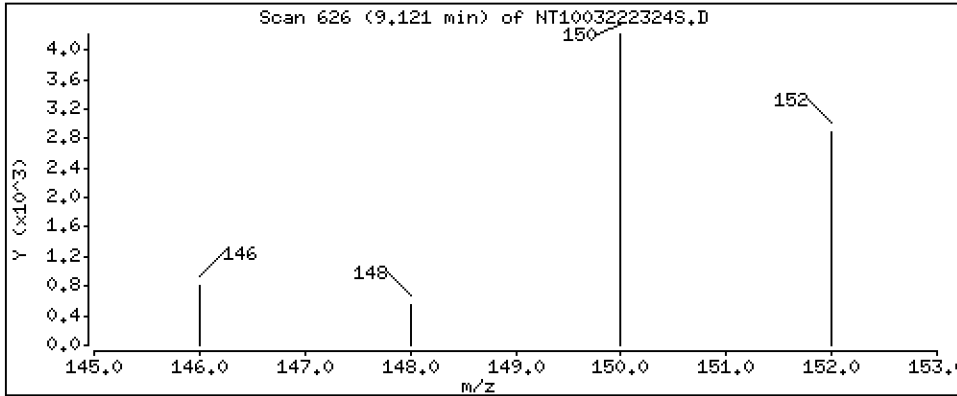
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,01879 ug/L



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08

Volume Injected (uL): 1.0

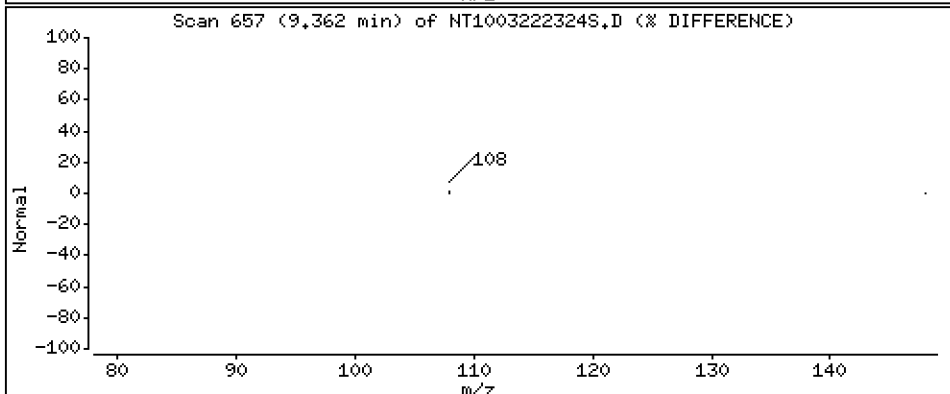
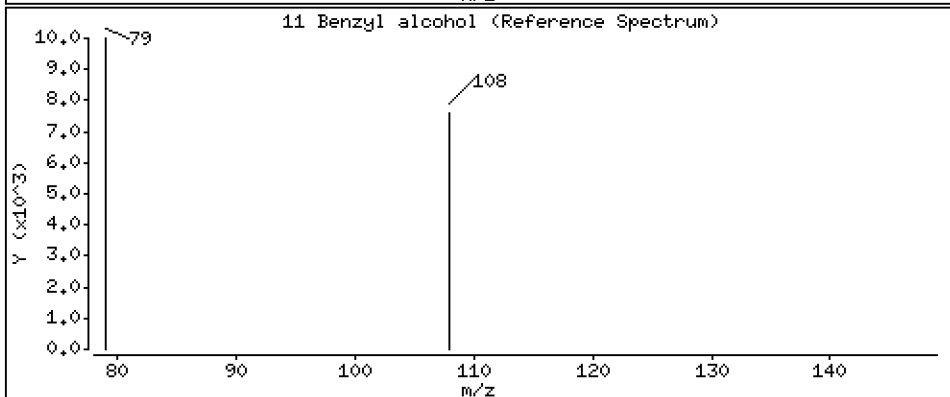
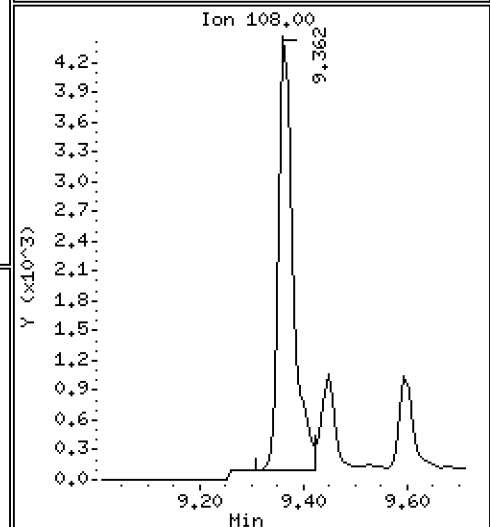
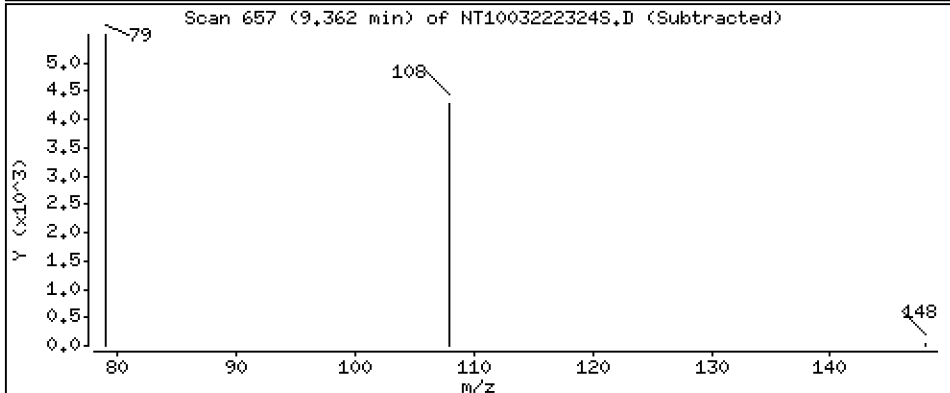
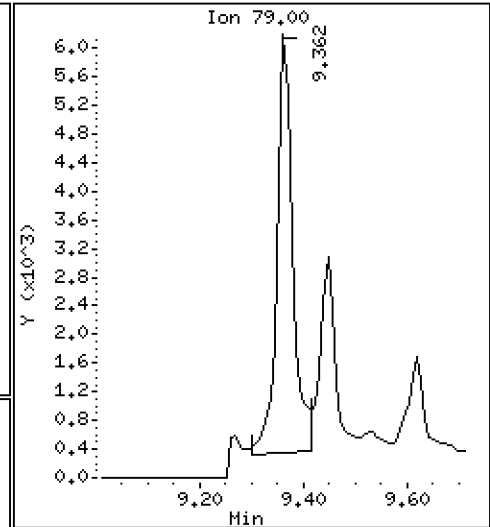
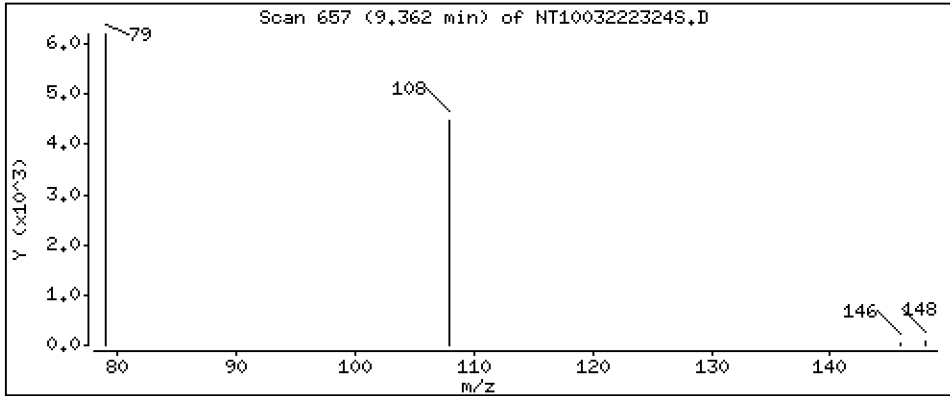
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.2967 ug/L



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08

Volume Injected (uL): 1.0

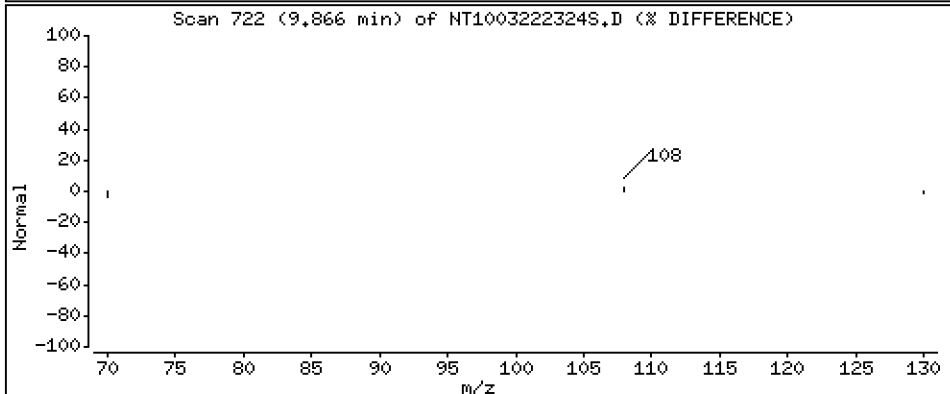
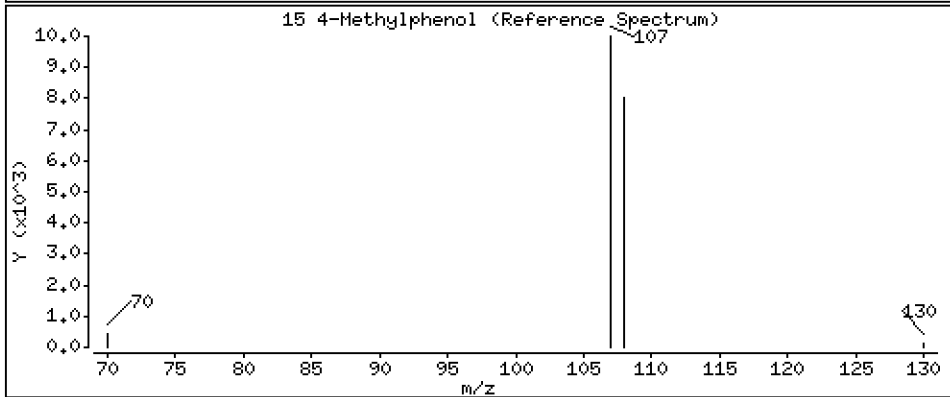
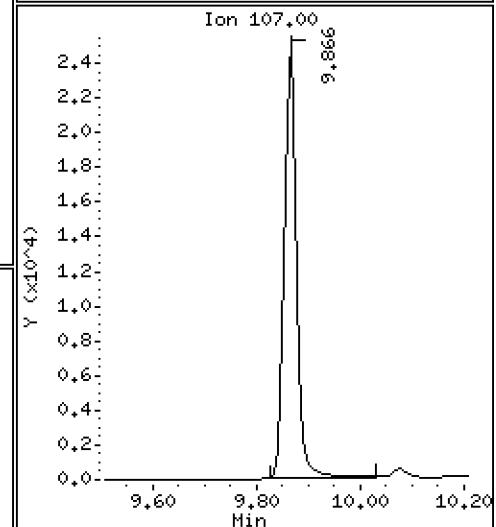
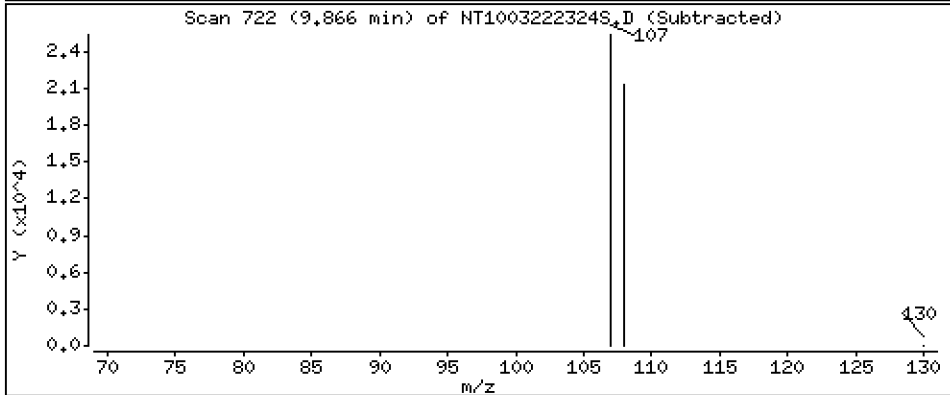
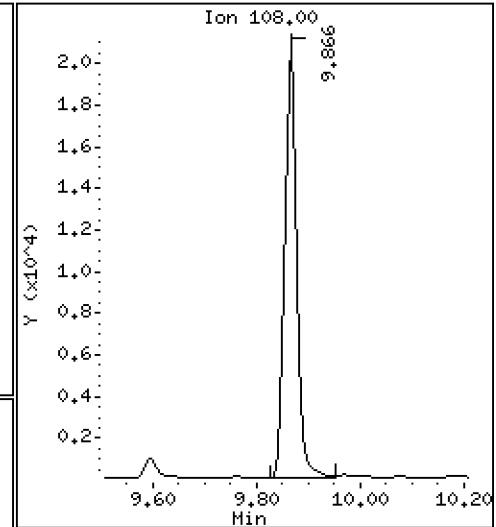
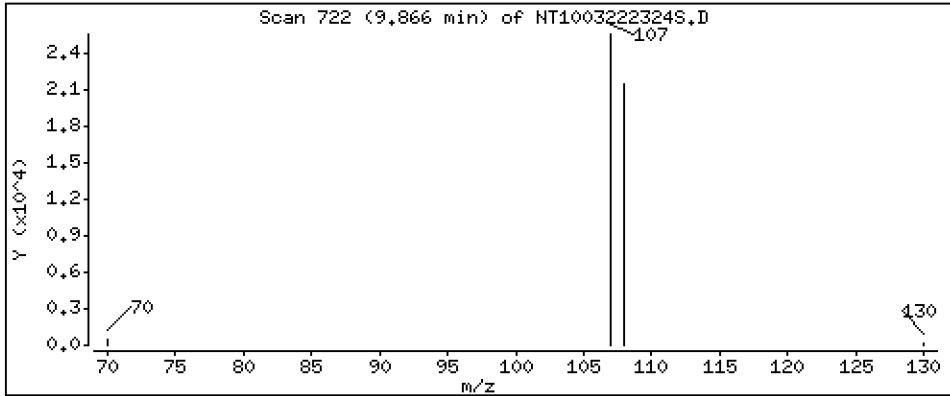
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.6522 ug/L



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08

Volume Injected (uL): 1.0

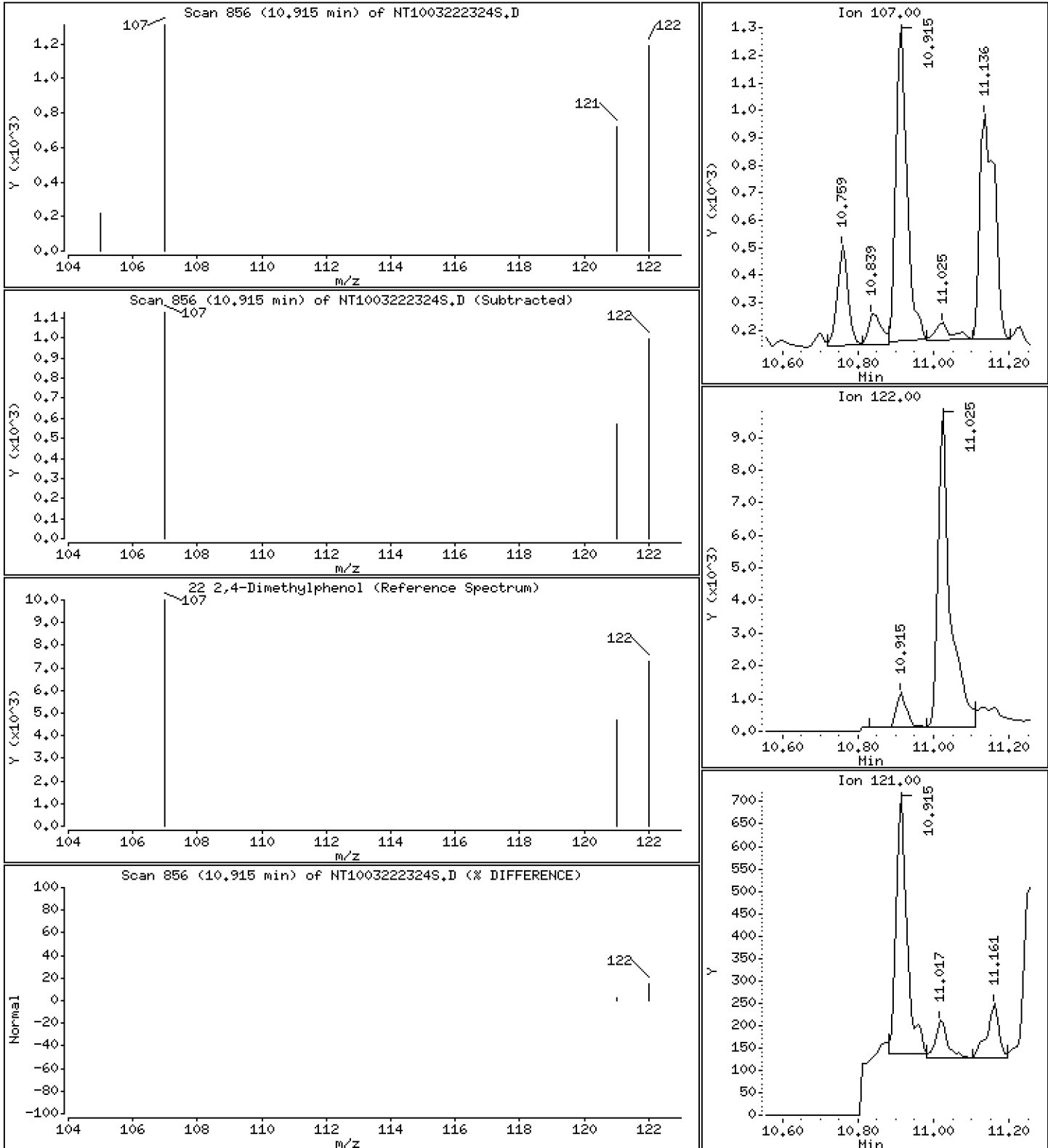
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 0.04541 ug/L



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08

Volume Injected (uL): 1.0

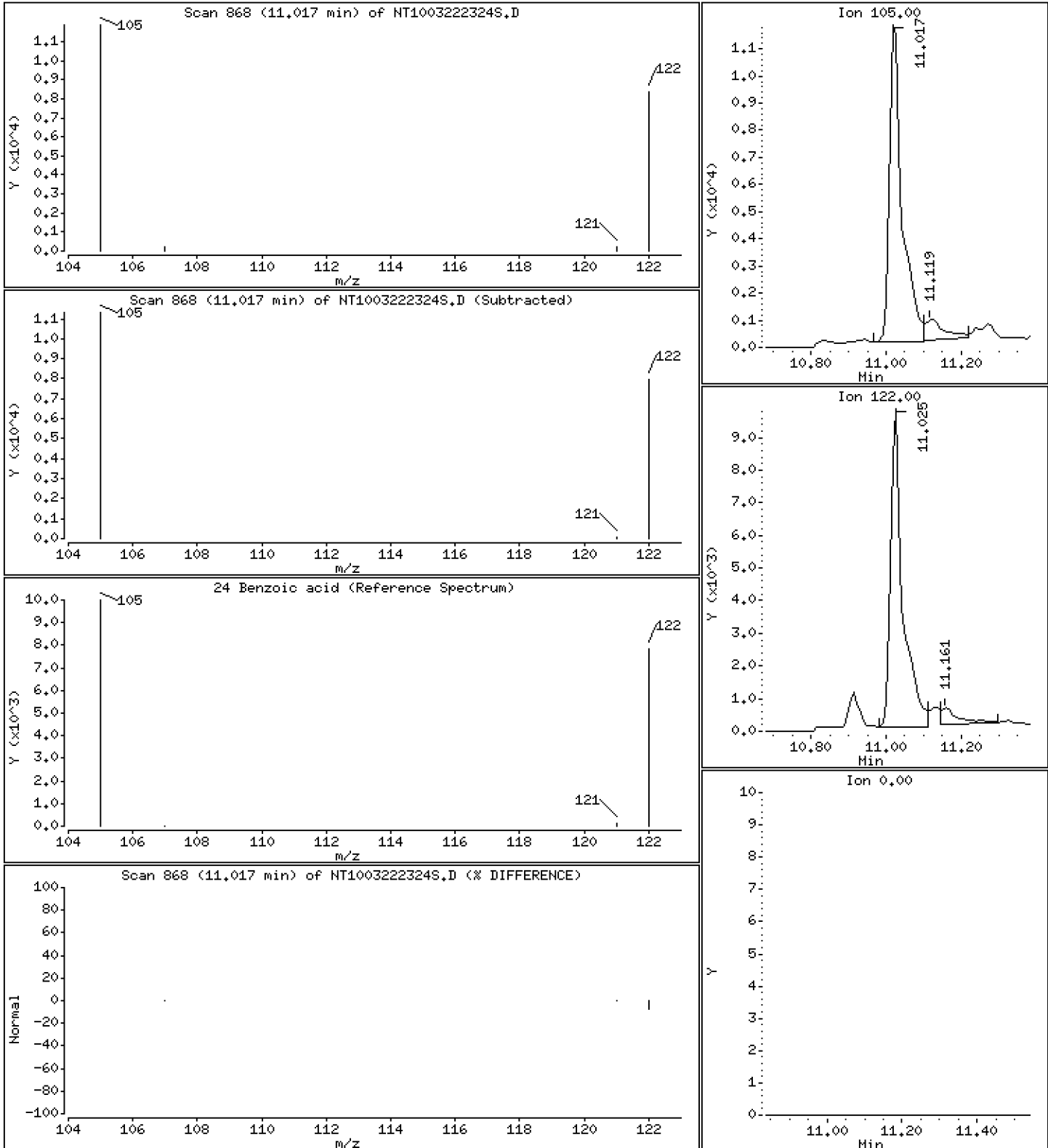
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.9874 ug/L



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08

Volume Injected (uL): 1.0

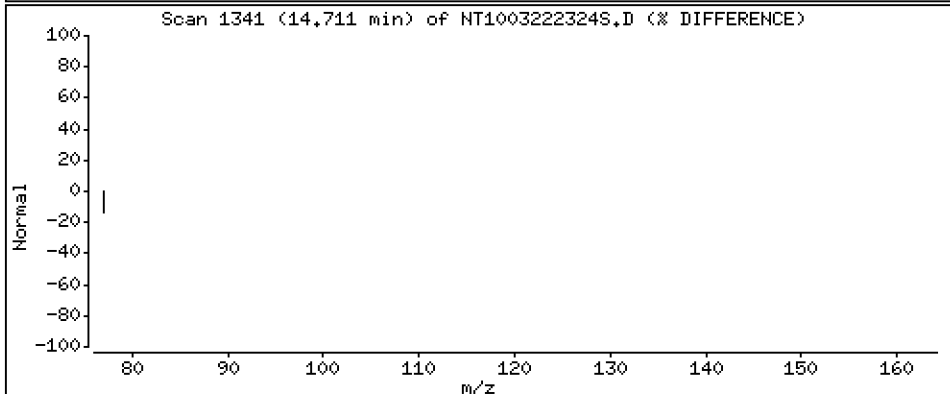
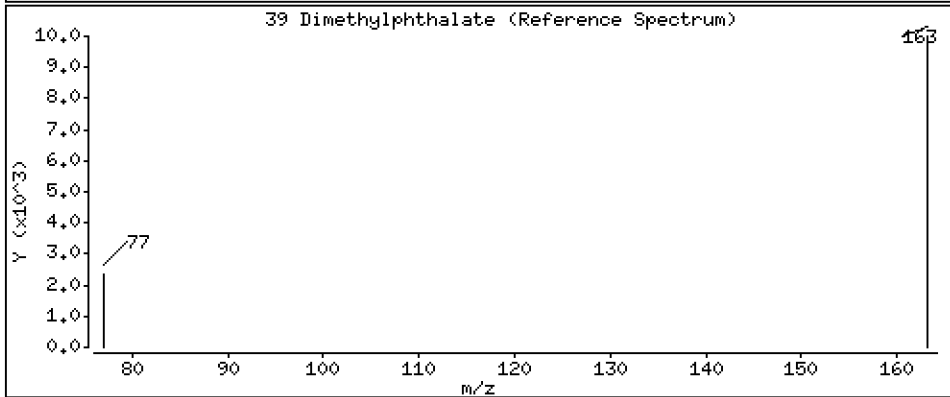
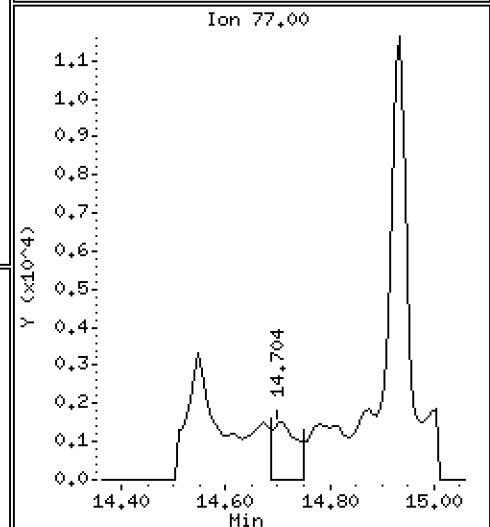
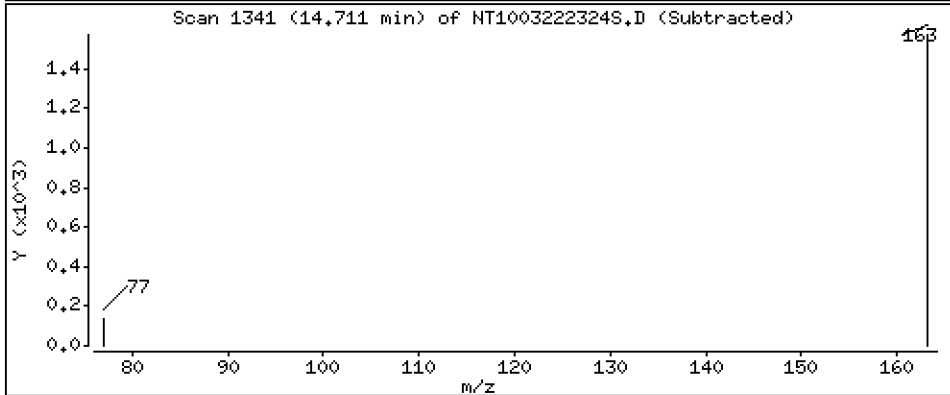
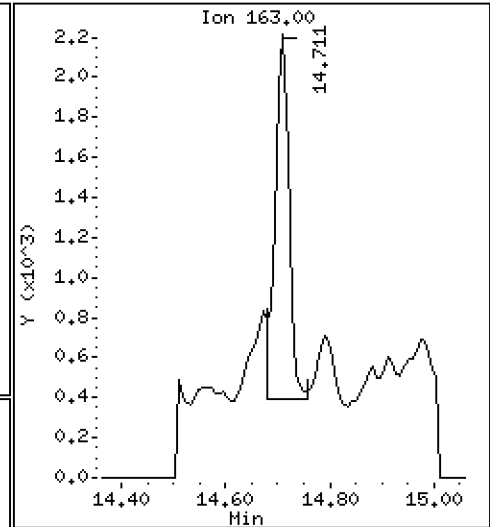
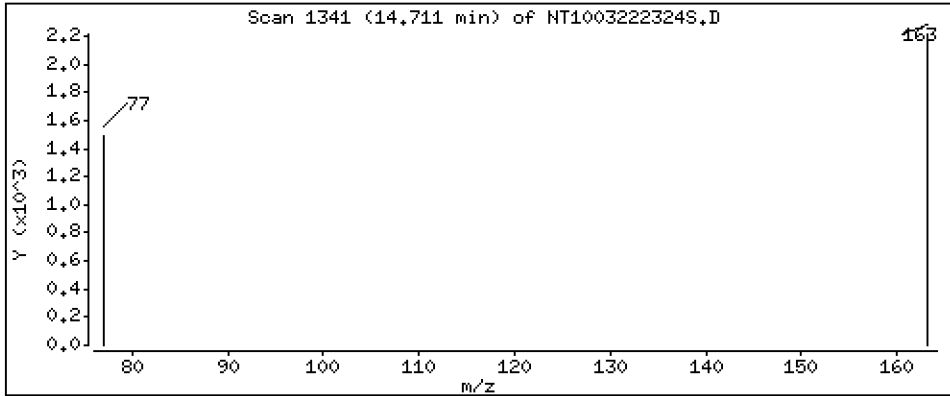
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

39 Dimethylphthalate

Concentration: 0.03517 ug/L





Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08

Volume Injected (uL): 1.0

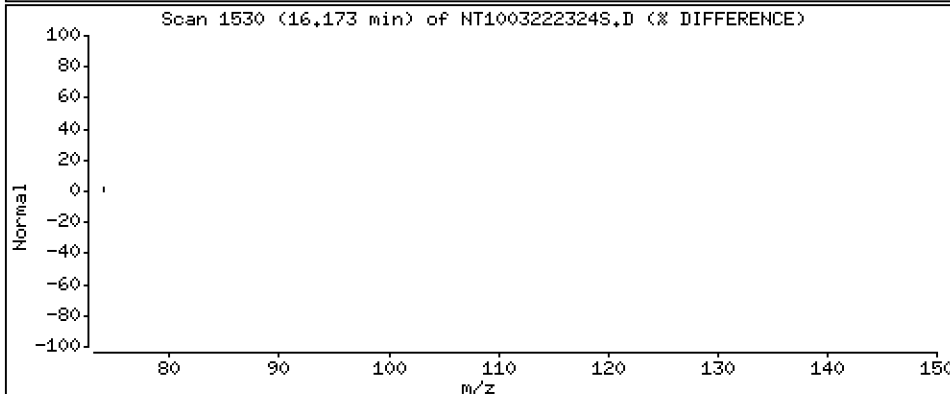
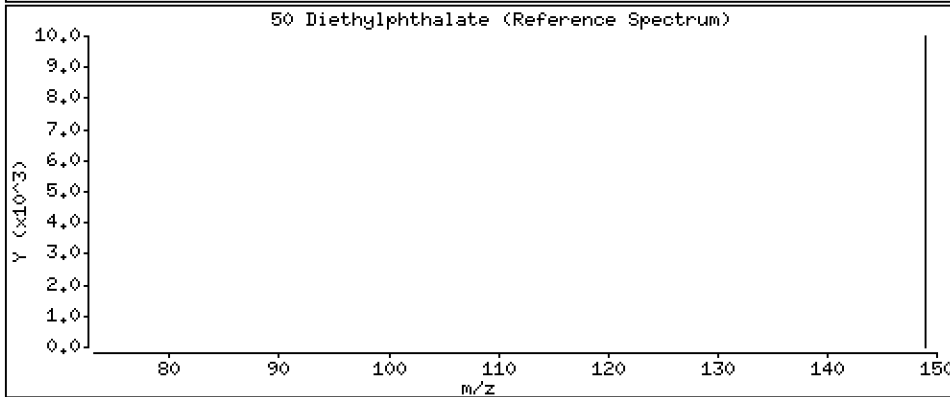
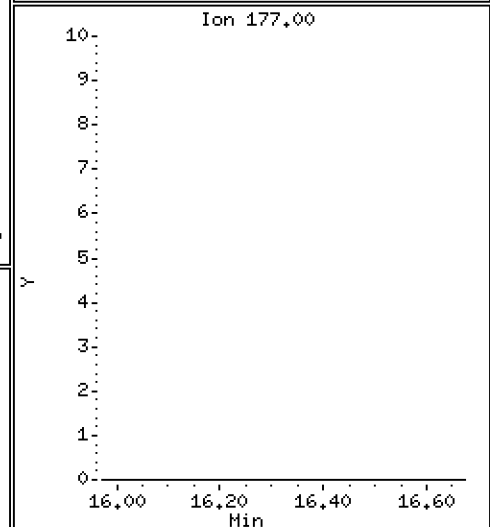
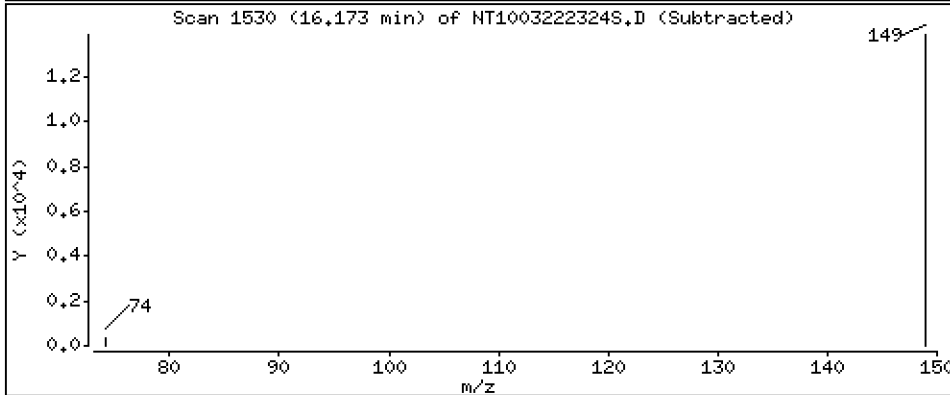
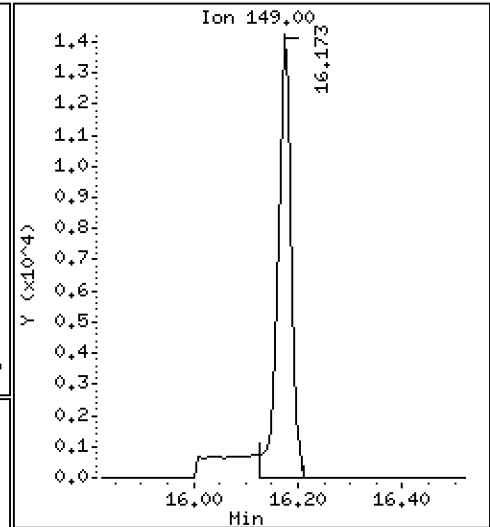
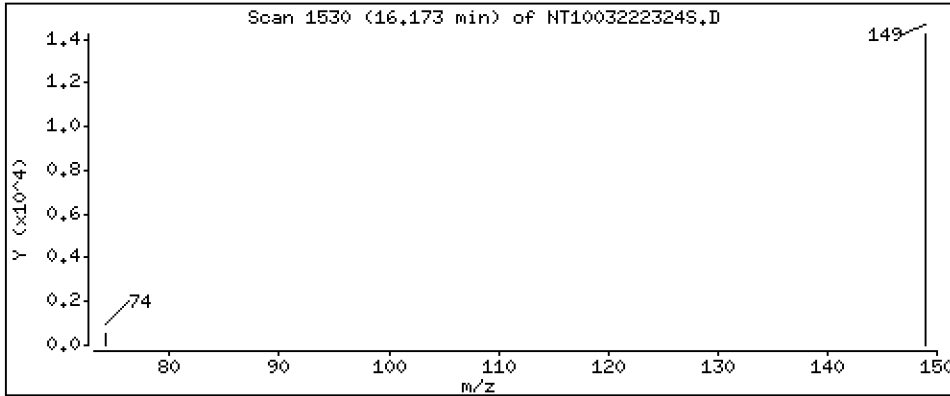
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2563 ug/L



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08

Volume Injected (uL): 1.0

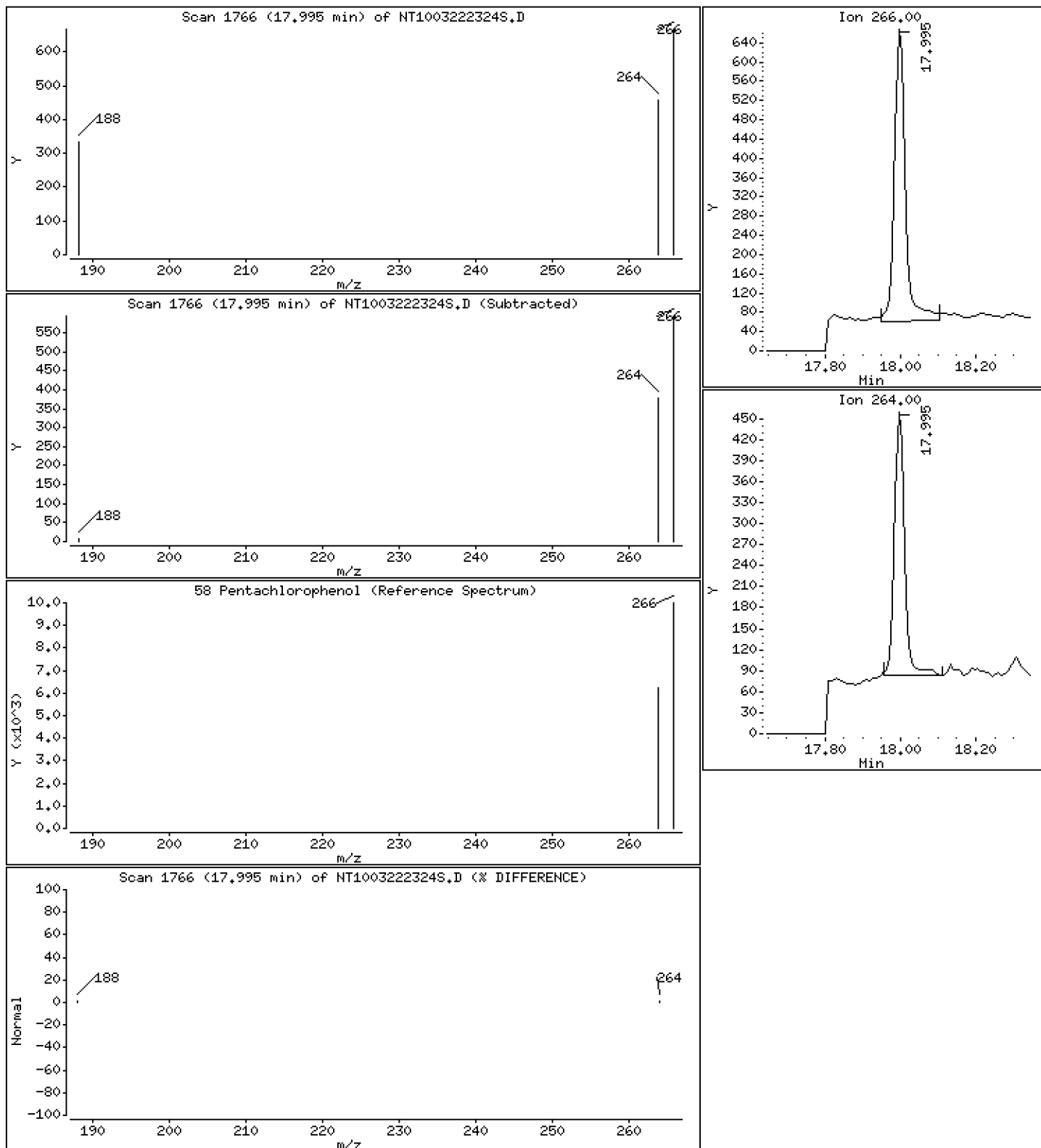
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,05582 ug/L



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08

Volume Injected (uL): 1.0

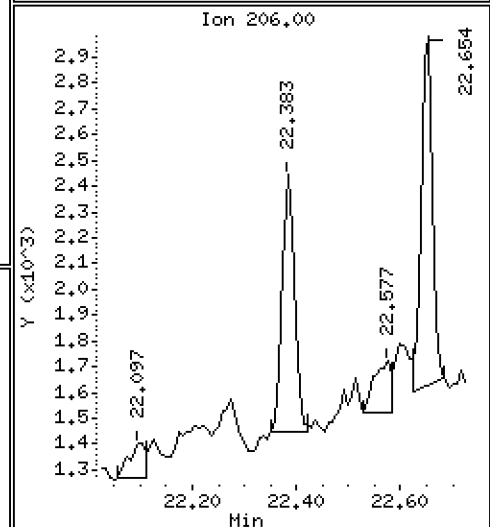
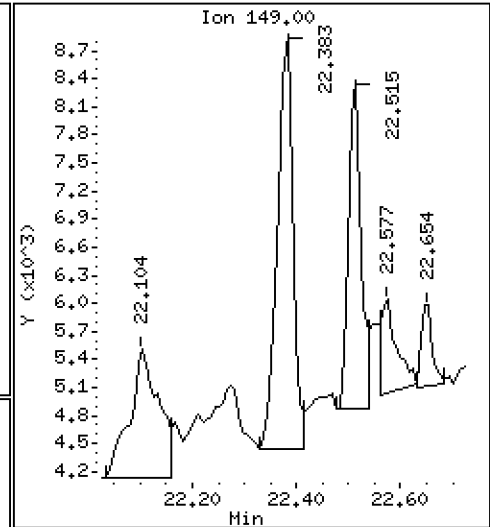
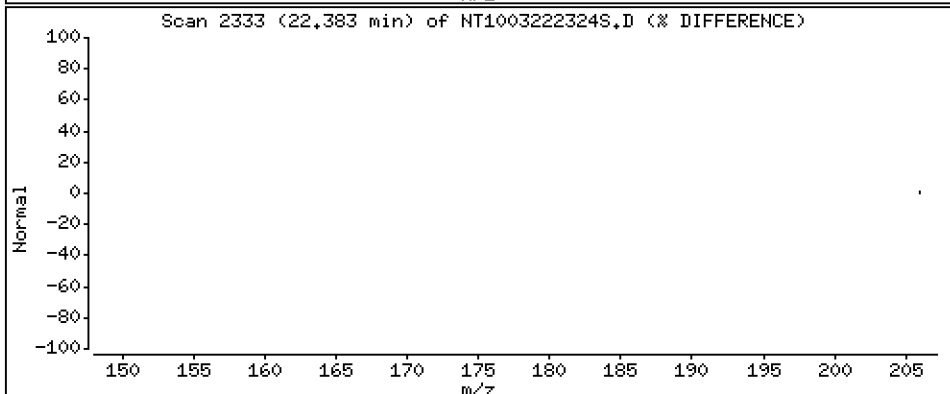
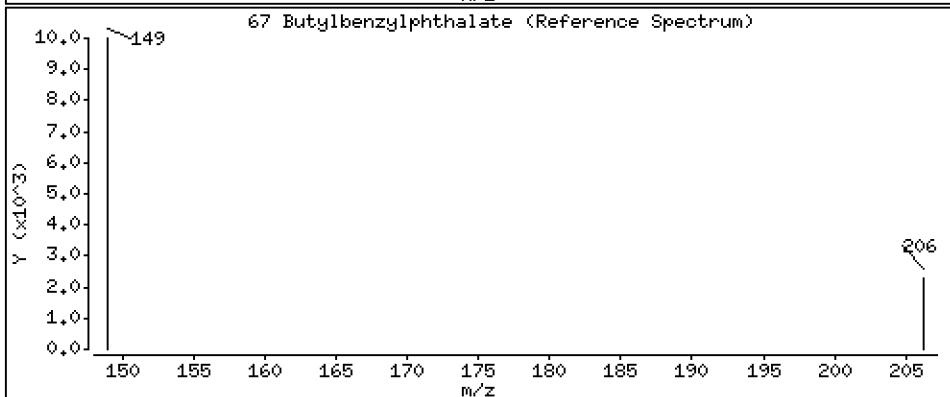
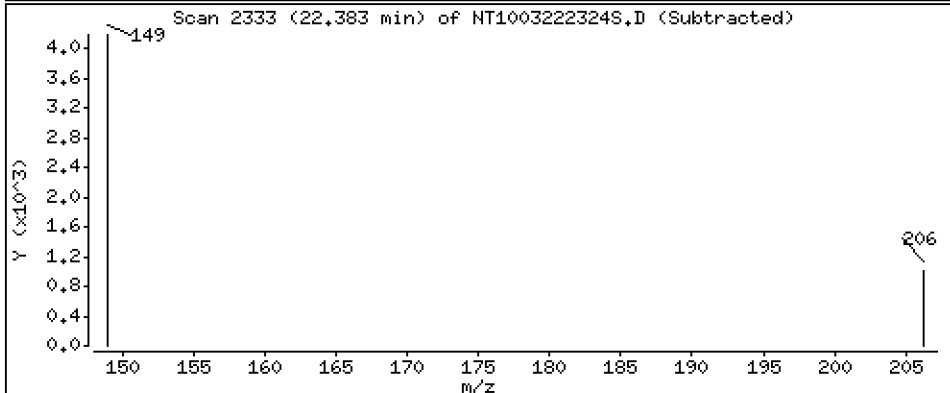
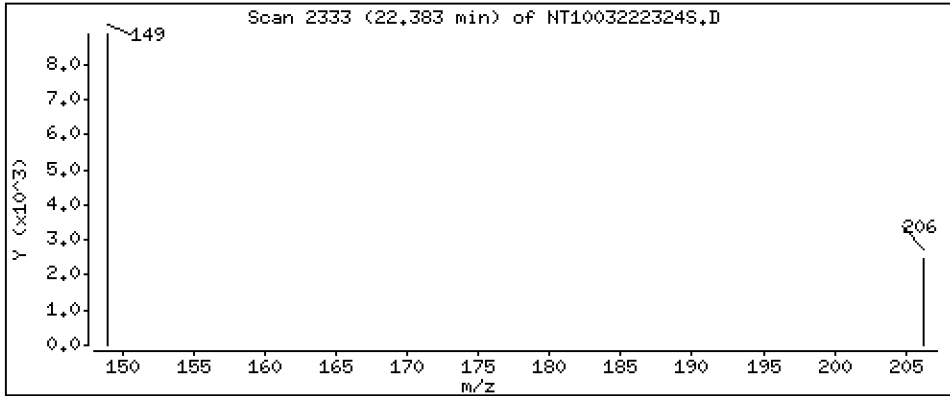
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,1145 ug/L



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08

Volume Injected (uL): 1.0

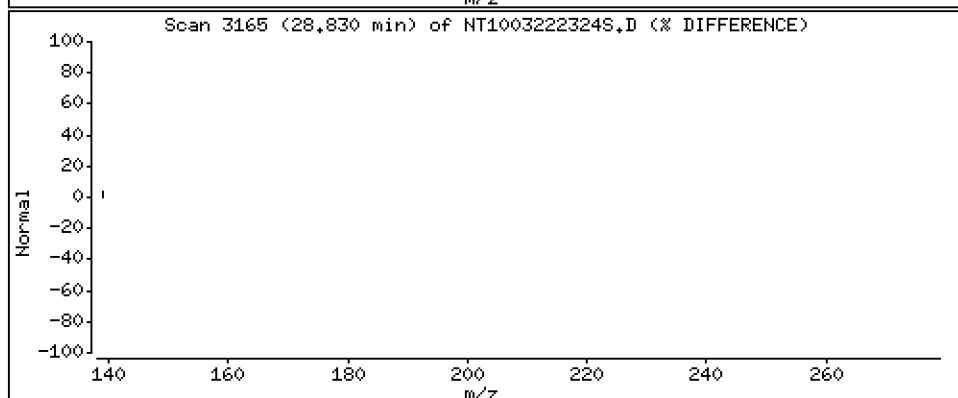
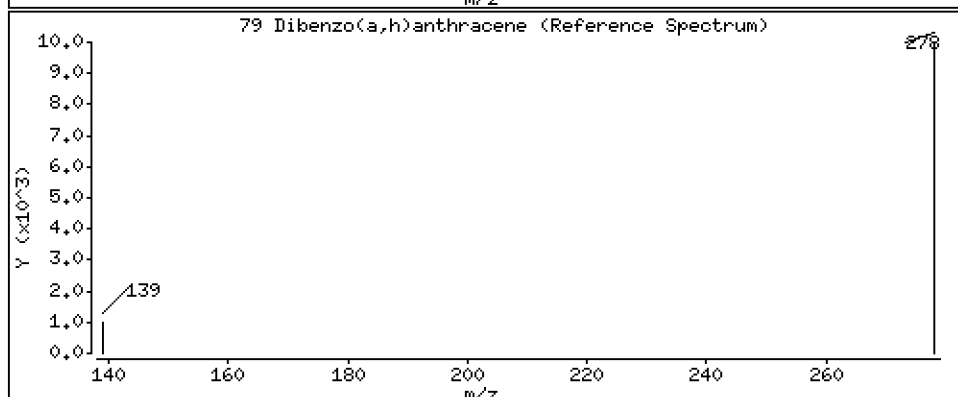
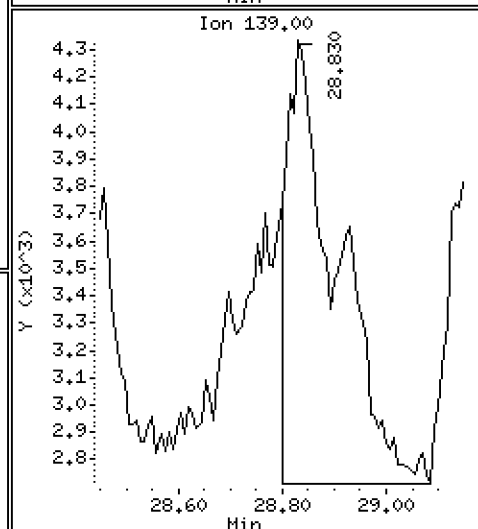
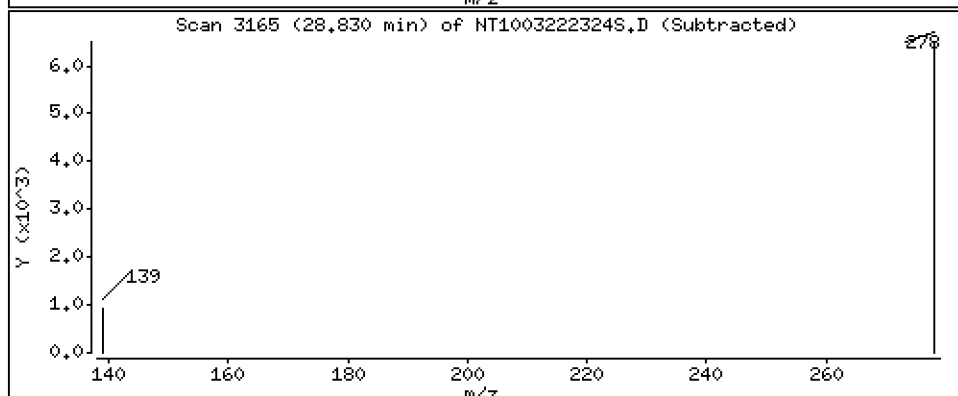
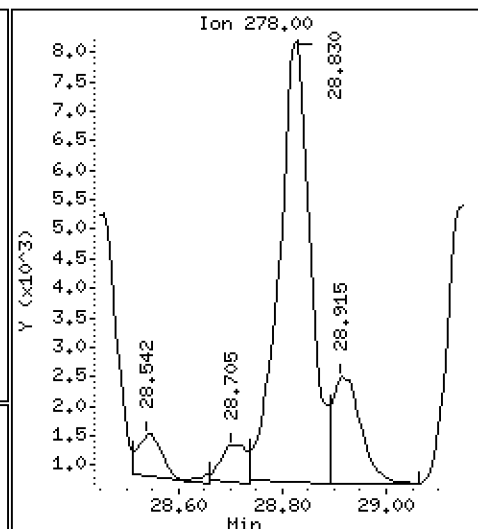
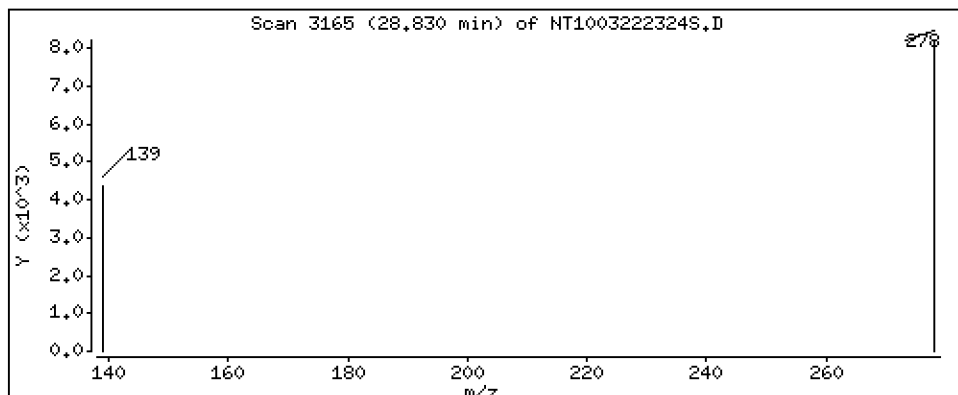
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1468 ug/L



Date : 23-MAR-2023 07:39

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-08

Volume Injected (uL): 1.0

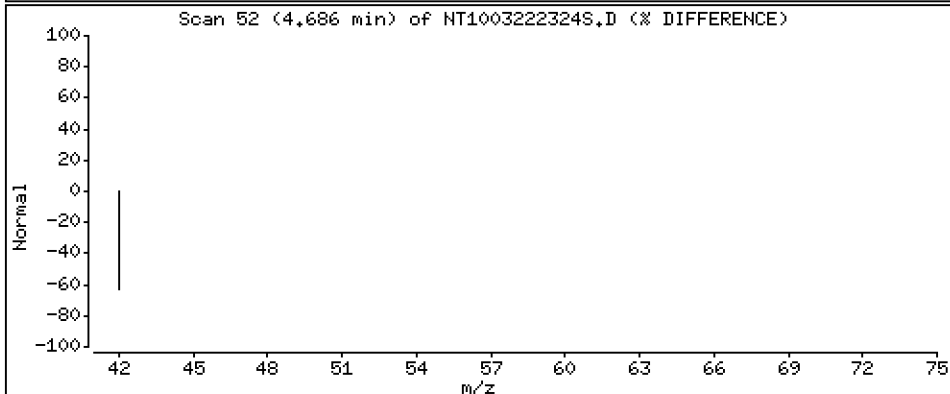
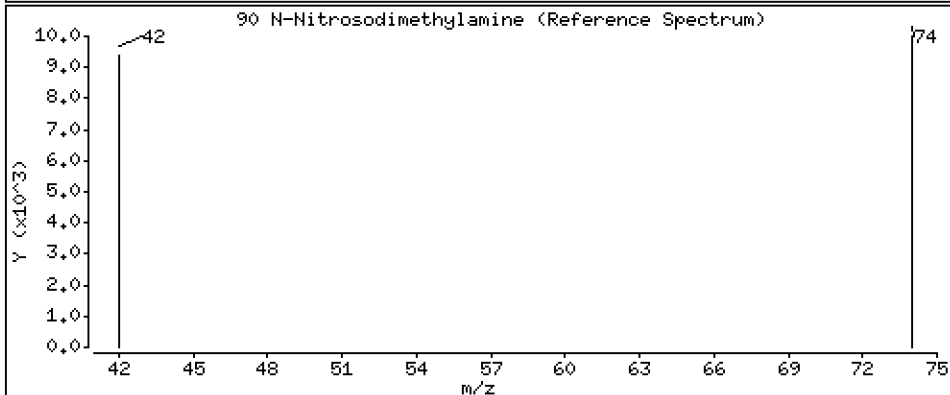
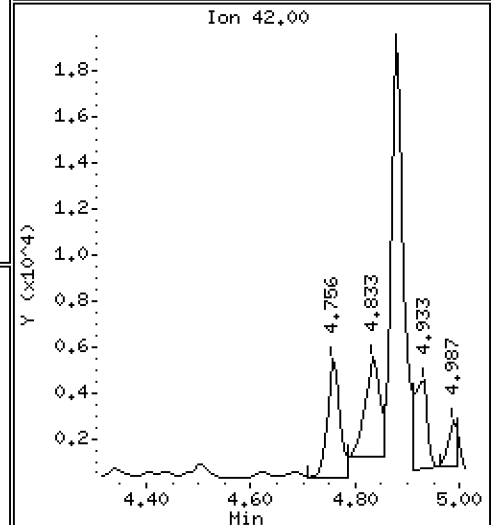
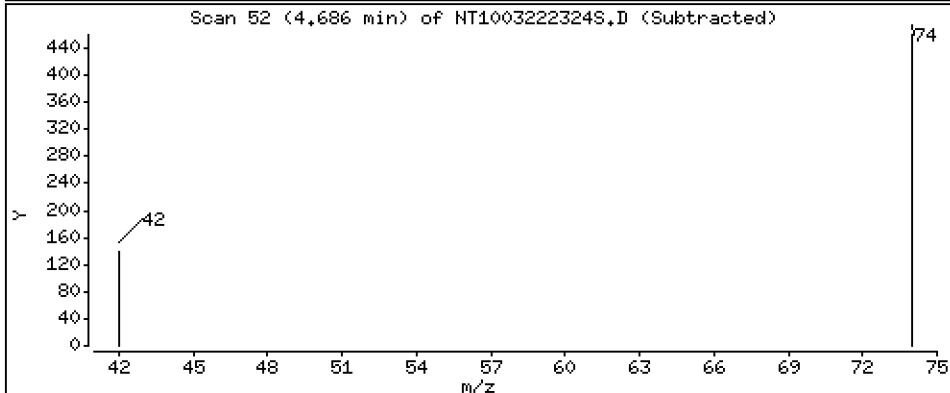
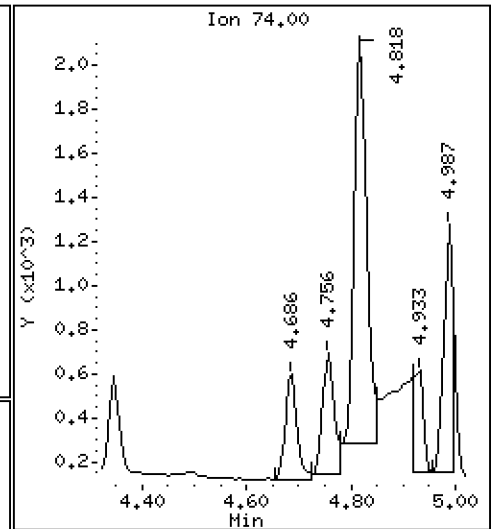
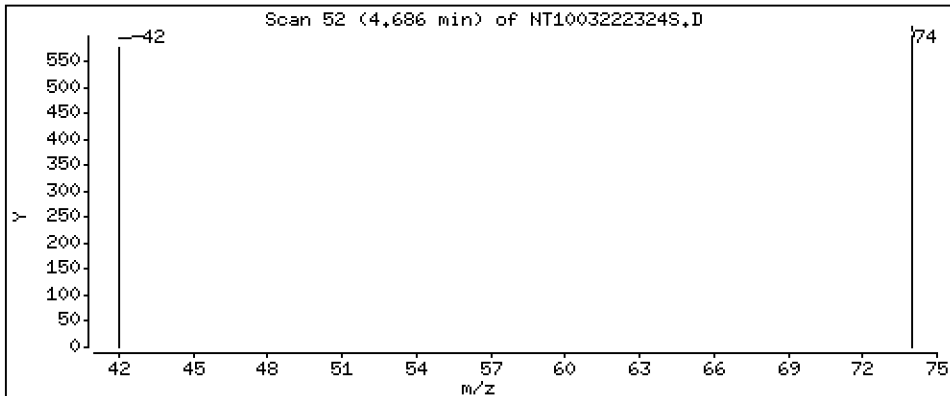
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 0.02364 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222324S.D  
 Lab Smp Id: 23A0179-08  
 Inj Date : 23-MAR-2023 07:39 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : 23A0179-08  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Meth Date : 25-Mar-2023 16:11 yev Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 19  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: ORGDATA102

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT                     | EXP RT         | REL RT | RESPONSE | CONCENTRATIONS |            |
|-------------------------------|-------|-----|------------------------|----------------|--------|----------|----------------|------------|
|                               |       |     |                        |                |        |          | ON-COLUMN      | FINAL      |
|                               | MASS  |     |                        |                |        |          | (ug/mL)        | ( ug/L)    |
| \$ 1 2-Fluorophenol           | 112   |     | 6.864                  | 6.856 (0.755)  |        | 280768   | 5.60635        | 5.606(R)   |
| 3 Phenol                      | 94    |     | 8.479                  | 8.471 (0.933)  |        | 359104   | 5.22659        | 5.227      |
| 7 1,3-Dichlorobenzene         | 146   |     | Compound Not Detected. |                |        |          |                |            |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.090                  | 9.090 (1.000)  |        | 165148   | 4.00000        |            |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.121                  | 9.121 (1.003)  |        | 1166     | 0.01879        | 0.01879(M) |
| 11 Benzyl alcohol             | 79    |     | 9.361                  | 9.361 (1.030)  |        | 11817    | 0.29667        | 0.2967(M)  |
| 12 1,2-Dichlorobenzene        | 146   |     | Compound Not Detected. |                |        |          |                |            |
| 13 2-Methylphenol             | 108   |     | Compound Not Detected. |                |        |          |                |            |
| 15 4-Methylphenol             | 108   |     | 9.866                  | 9.858 (1.085)  |        | 32265    | 0.65221        | 0.6522     |
| 16 N-Nitroso-di-n-propylamine | 70    |     | Compound Not Detected. |                |        |          |                |            |
| 22 2,4-Dimethylphenol         | 107   |     | 10.915                 | 10.906 (0.943) |        | 2341     | 0.04541        | 0.04541    |
| 24 Benzoic acid               | 105   |     | 11.016                 | 11.033 (0.952) |        | 27929    | 0.98741        | 0.9874     |
| 26 1,2,4-Trichlorobenzene     | 180   |     | Compound Not Detected. |                |        |          |                |            |
| * 27 Naphthalene-d8           | 136   |     | 11.577                 | 11.577 (1.000) |        | 596405   | 4.00000        |            |
| 30 Hexachlorobutadiene        | 225   |     | Compound Not Detected. |                |        |          |                |            |
| 39 Dimethylphthalate          | 163   |     | 14.711                 | 14.711 (0.967) |        | 3274     | 0.03517        | 0.03517(M) |
| * 42 Acenaphthene-d10         | 162   |     | 15.206                 | 15.206 (1.000) |        | 294954   | 4.00000        |            |
| 50 Diethylphthalate           | 149   |     | 16.172                 | 16.172 (1.064) |        | 24711    | 0.25627        | 0.2563     |
| 54 N-Nitrosodiphenylamine     | 169   |     | Compound Not Detected. |                |        |          |                |            |
| 57 Hexachlorobenzene          | 284   |     | Compound Not Detected. |                |        |          |                |            |

| Compounds                 | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                           |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>( ug/L) |
| 58 Pentachlorophenol      | 266       | 17.995 | 17.995 | (0.986) | 1165     | 0.05582              | 0.05582 (M)      |
| * 59 Phenanthrene-d10     | 188       | 18.258 | 18.258 | (1.000) | 629413   | 4.00000              |                  |
| \$ 66 Terphenyl-d14       | 244       | 21.438 | 21.438 | (0.918) | 483157   | 5.07509              | 5.075 (R)        |
| 67 Butylbenzylphthalate   | 149       | 22.383 | 22.375 | (0.958) | 8799     | 0.11447              | 0.1145           |
| * 69 Chrysene-d12         | 240       | 23.358 | 23.350 | (1.000) | 584289   | 4.00000              |                  |
| * 77 Perylene-d12         | 264       | 26.052 | 26.037 | (1.000) | 668897   | 4.00000              |                  |
| 79 Dibenzo(a,h)anthracene | 278       | 28.829 | 28.798 | (1.107) | 32211    | 0.14678              | 0.1468           |
| 90 N-Nitrosodimethylamine | 74        | 4.686  | 4.670  | (0.516) | 751      | 0.02364              | 0.02364          |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT1003222324S.D  
 Lab Smp Id: 23A0179-08  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Misc Info:

Calibration Date: 23-MAR-2023  
 Calibration Time: 03:52  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 140507   | 70254      | 281014  | 165148 | 17.54 |
| 27 Naphthalene-d8   | 499190   | 249595     | 998380  | 596405 | 19.47 |
| 42 Acenaphthene-d10 | 250303   | 125152     | 500606  | 294954 | 17.84 |
| 59 Phenanthrene-d10 | 496896   | 248448     | 993792  | 629413 | 26.67 |
| 69 Chrysene-d12     | 465837   | 232919     | 931674  | 584289 | 25.43 |
| 77 Perylene-d12     | 551078   | 275539     | 1102156 | 668897 | 21.38 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.09     | 8.59     | 9.59  | 9.09   | 0.00  |
| 27 Naphthalene-d8   | 11.58    | 11.08    | 12.08 | 11.58  | 0.00  |
| 42 Acenaphthene-d10 | 15.21    | 14.71    | 15.71 | 15.21  | 0.00  |
| 59 Phenanthrene-d10 | 18.26    | 17.76    | 18.76 | 18.26  | 0.00  |
| 69 Chrysene-d12     | 23.35    | 22.85    | 23.85 | 23.36  | 0.03  |
| 77 Perylene-d12     | 26.04    | 25.54    | 26.54 | 26.05  | 0.06  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



REVIEW SUMMARY FOR FILE - NT1003222324S.D

Lab ID: 23A0179-08

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 23-MAR-2023 07:39

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

---

NONE

RRT check based on Ccal File: SIM.b/NT1003222318S.D

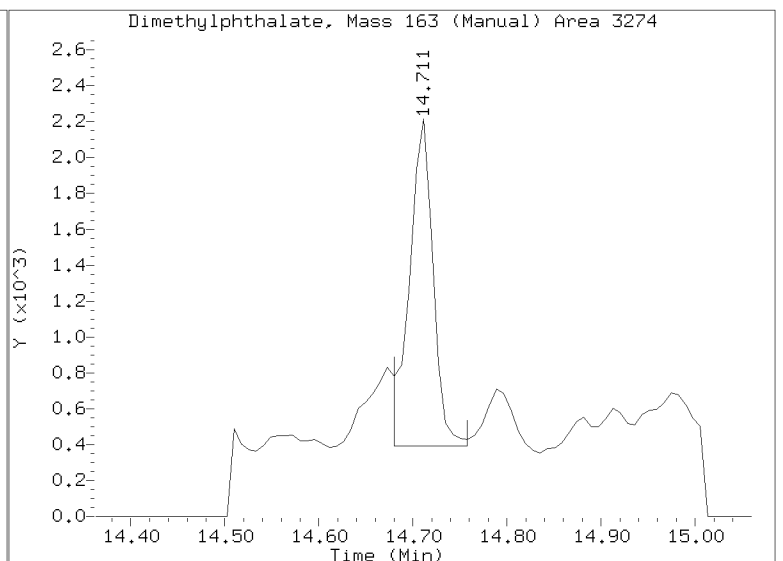
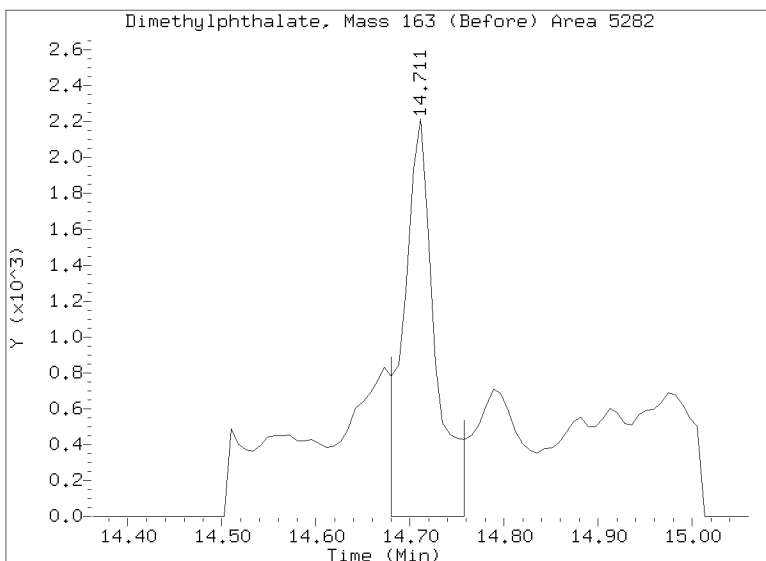
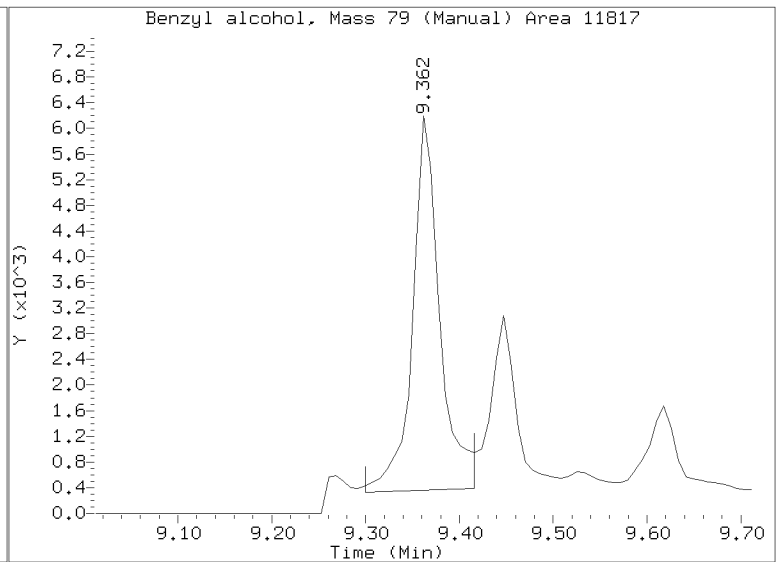
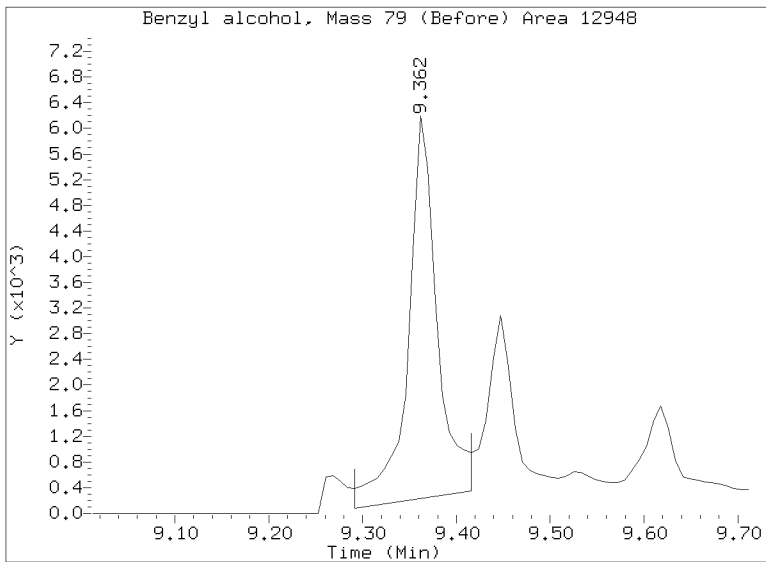
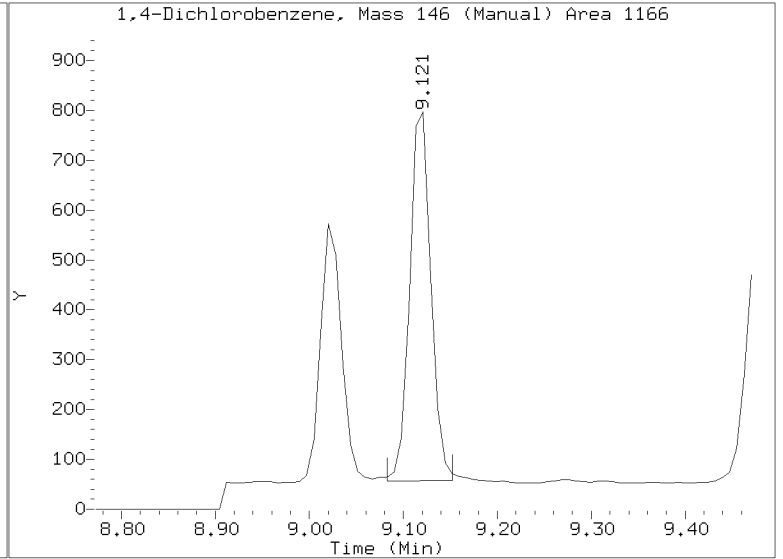
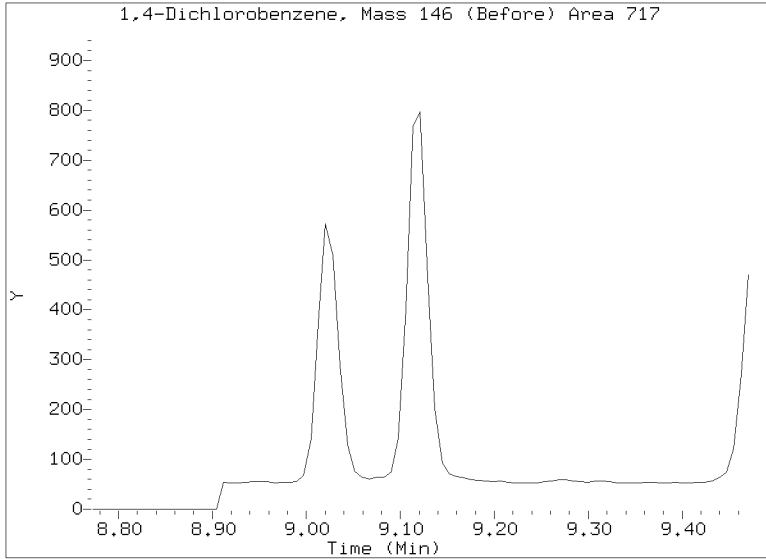
On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

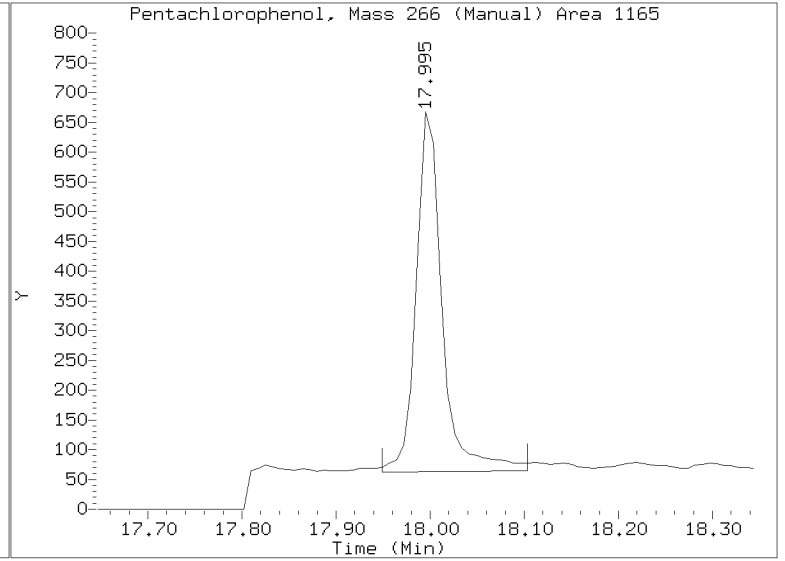
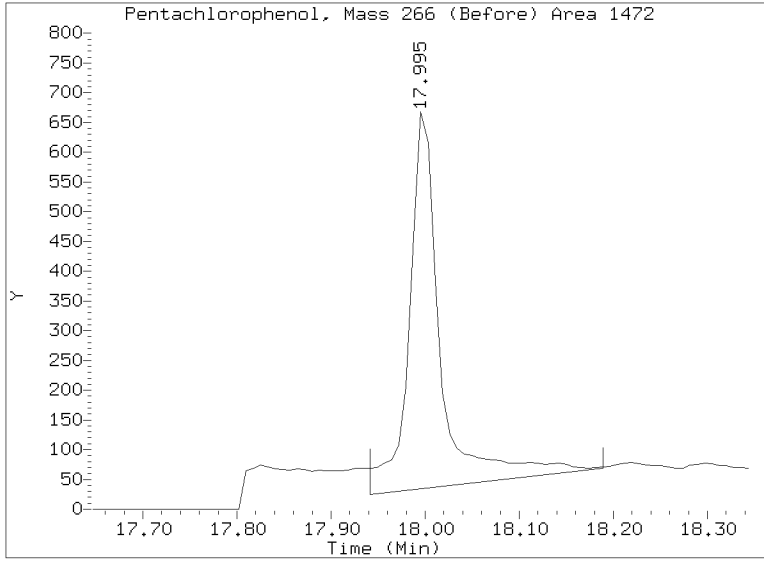
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222324S.D  
Injection Date: 23-MAR-2023 07:39  
Lab ID:23A0179-08 Client ID:  
Report Date: 03/25/2023 16:12



# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222324S.D  
Injection Date: 23-MAR-2023 07:39  
Lab ID:23A0179-08 Client ID:  
Report Date: 03/25/2023 16:12





**Form I**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8270E-SIM**  
**SIM SVOC Organics (Dual scan list)**

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-09RE1 A

SDG: 23A0179

Sampled: 01/10/23 11:08

Prepared: 03/17/23 14:20

File ID: NT1003222325S.D

% Solids: 53.02

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 08:17

Batch: BLC0442

Sequence: SLC0407

Initial/Final: 18.9 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00049

Cleanups: GPC

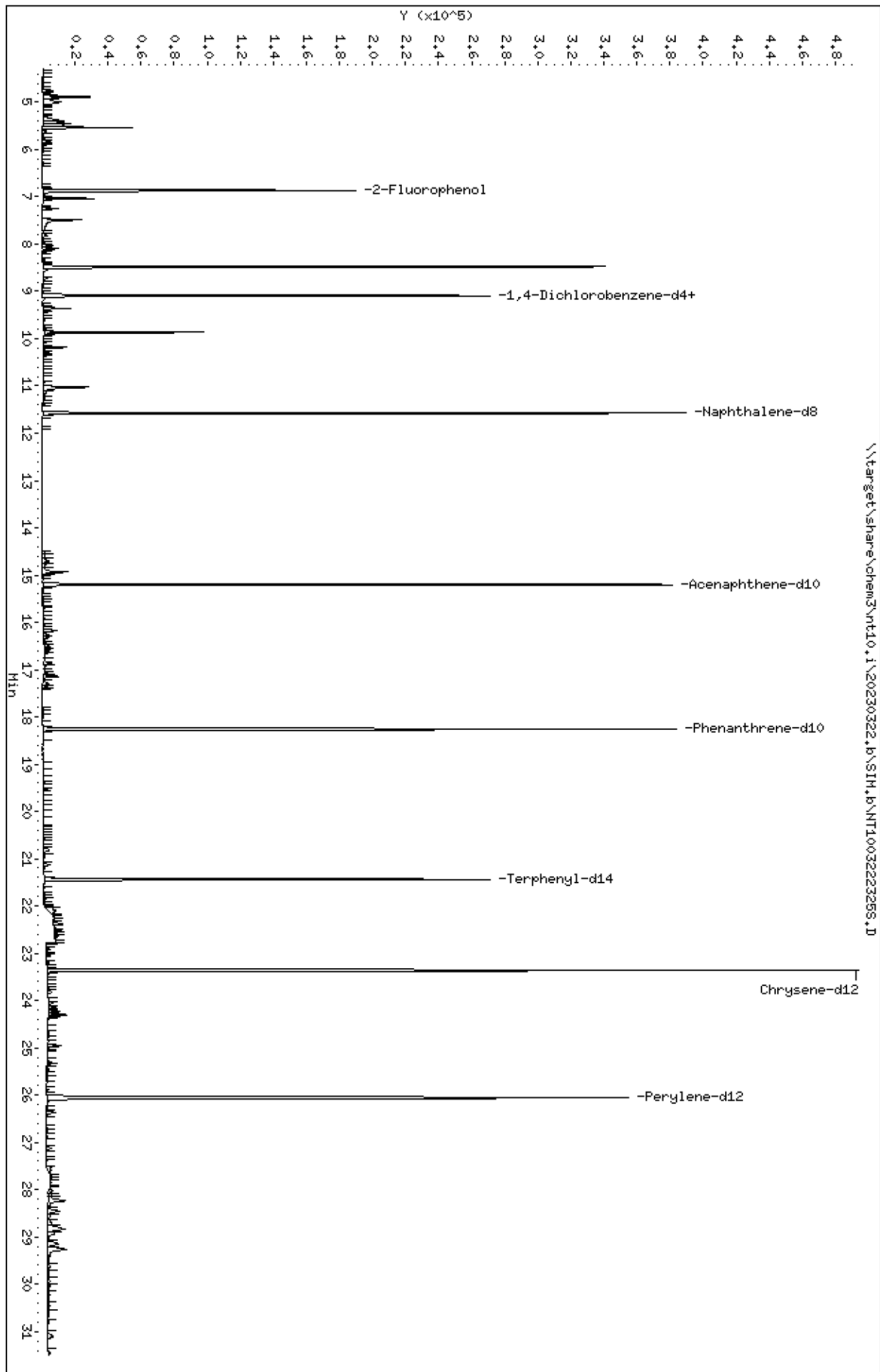
| CAS NO.  | COMPOUND               | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|------------------------|----------|----------------------|---|------|------|
| 106-46-7 | 1,4-Dichlorobenzene    | 1        | 1.1                  | J | 0.6  | 5.0  |
| 95-50-1  | 1,2-Dichlorobenzene    | 1        | 5.0                  | U | 0.7  | 5.0  |
| 100-51-6 | Benzyl Alcohol         | 1        | 46.7                 |   | 2.5  | 20.0 |
| 65-85-0  | Benzoic acid           | 1        | 124                  |   | 13.4 | 99.8 |
| 105-67-9 | 2,4-Dimethylphenol     | 1        | 20.0                 | U | 2.2  | 20.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1        | 5.0                  | U | 2.7  | 5.0  |
| 86-30-6  | N-Nitrosodiphenylamine | 1        | 5.0                  | U | 1.3  | 5.0  |
| 87-86-5  | Pentachlorophenol      | 1        | 3.0                  | J | 2.1  | 20.0 |

| SURROGATES      | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|-----------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol  | 748.44                | 388                   | 51.9  | 27 - 120  |   |
| p-Terphenyl-d14 | 498.96                | 339                   | 68.0  | 37 - 120  |   |

Data File: \\target\share\chem3\nt10.1\20230322.16\SIM.6\NT10032223255.D  
Date: 23-MAR-2023 08:17  
Client ID:  
Sample Info: 23A0179-09  
Volume Injected (uL): 1.0  
Column phase: ZB-5msi

Instrument: nt10.1  
Operator: JGR  
Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\SIM.6\NT10032223255.D



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09

Volume Injected (uL): 1.0

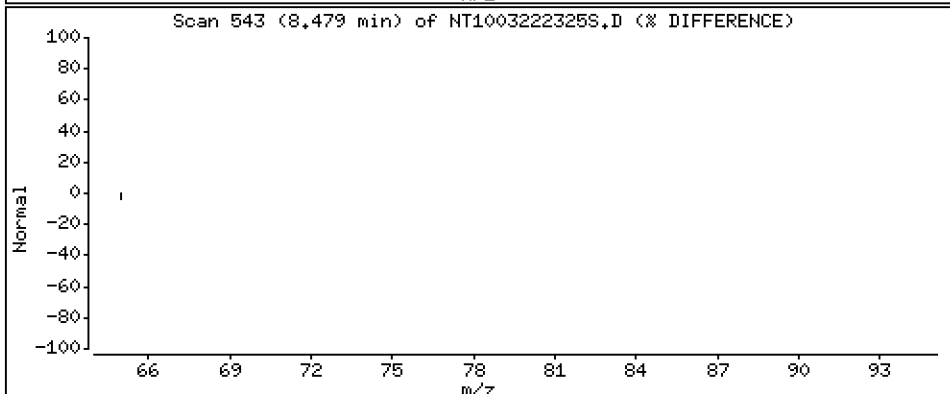
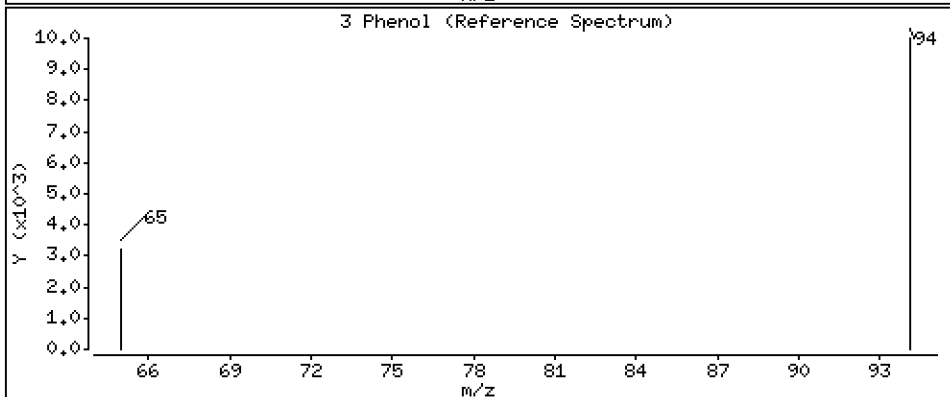
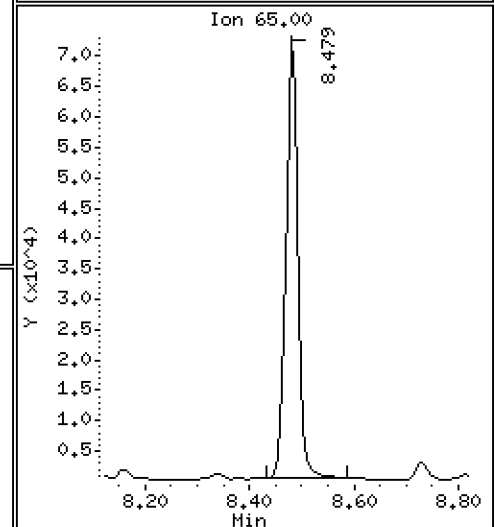
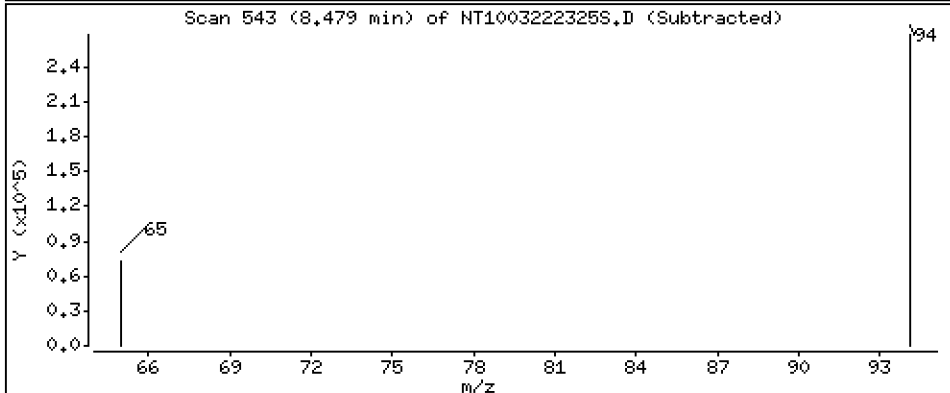
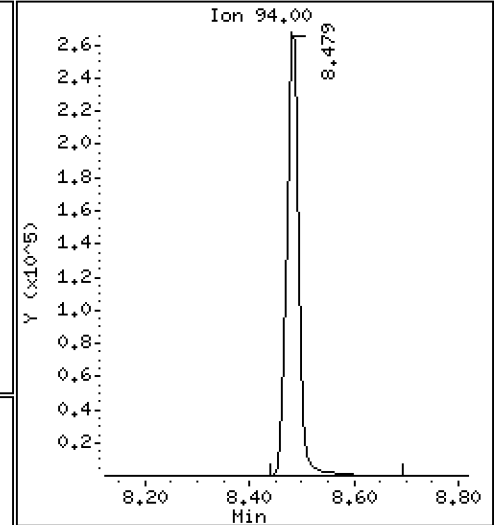
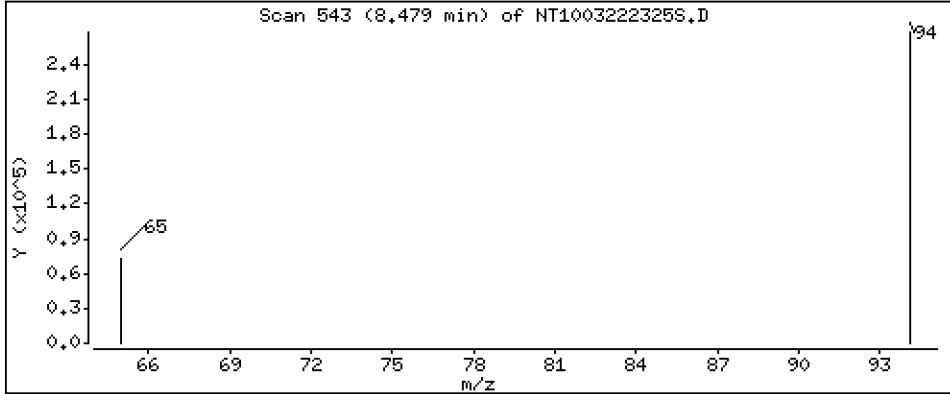
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 6.253 ug/L



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09

Volume Injected (uL): 1.0

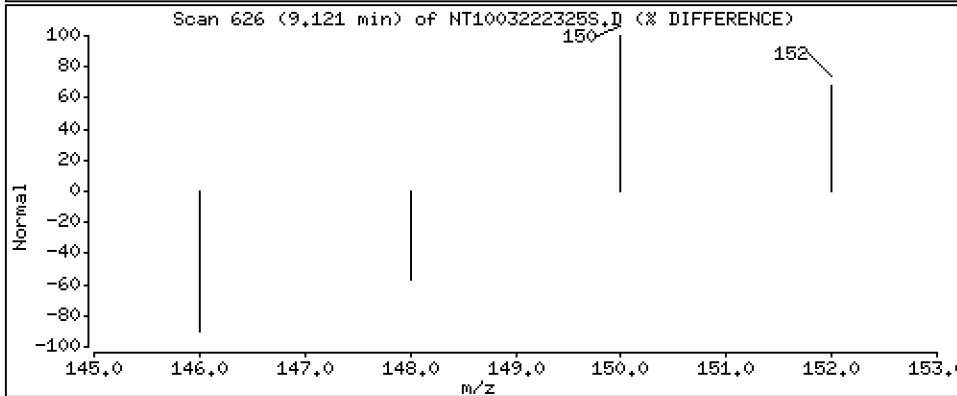
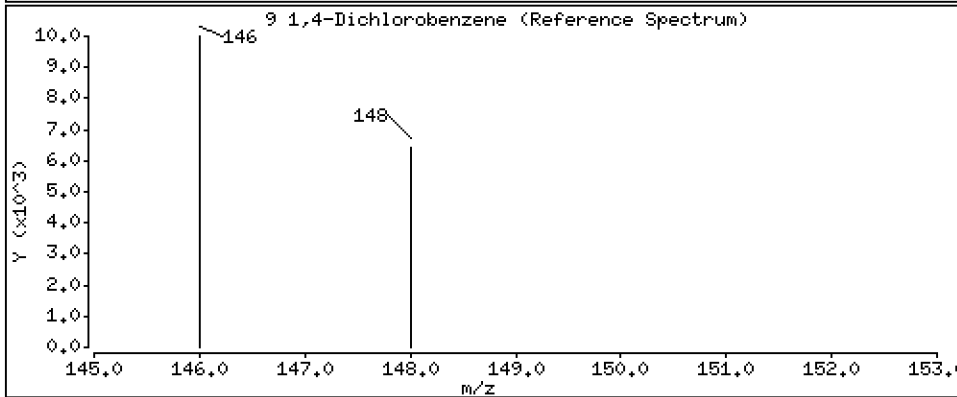
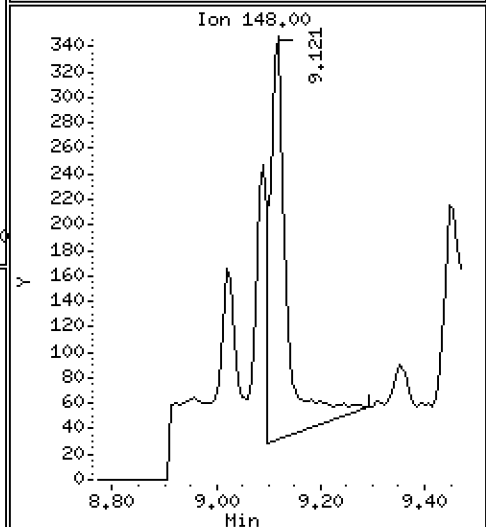
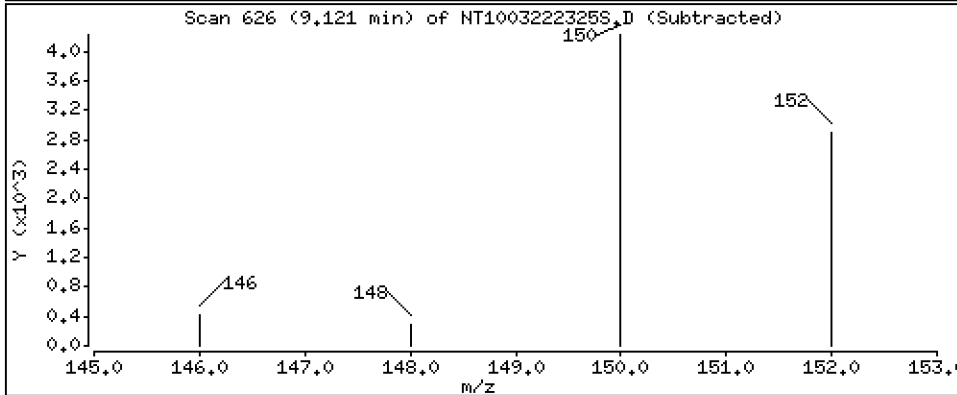
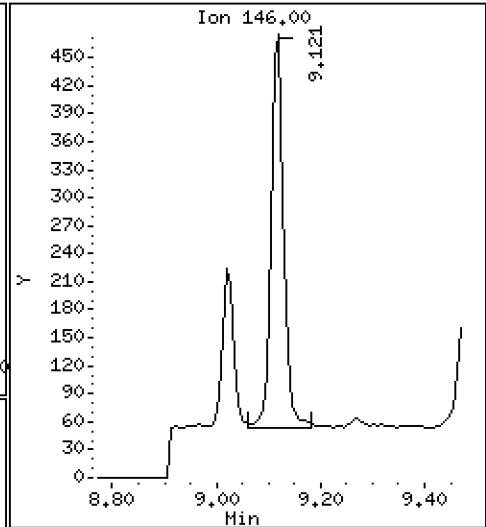
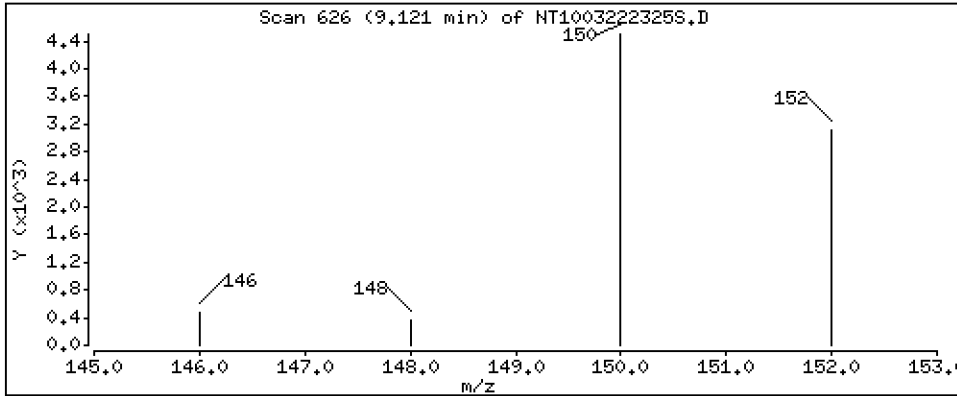
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,01131 ug/L



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09

Volume Injected (uL): 1.0

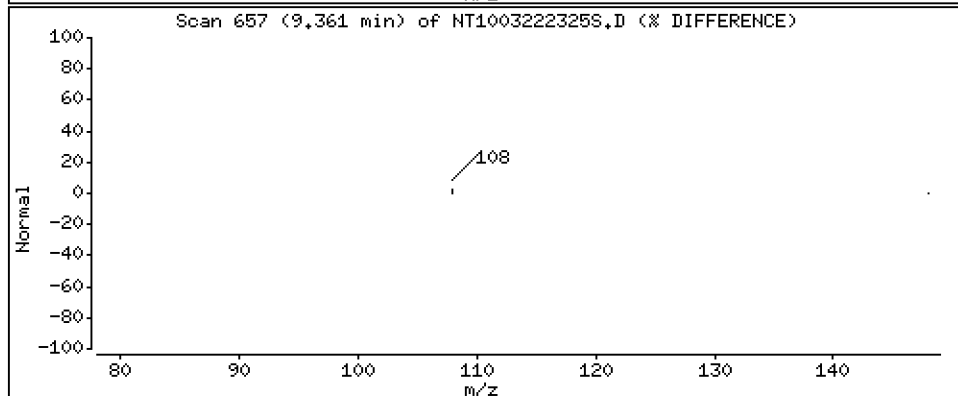
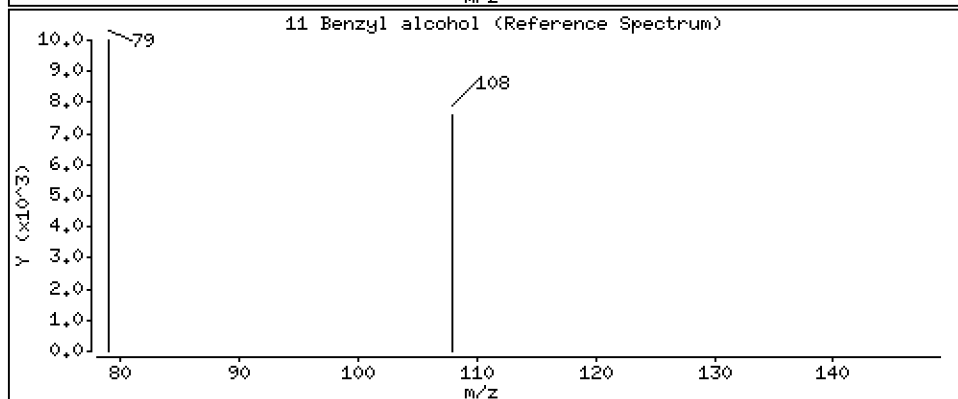
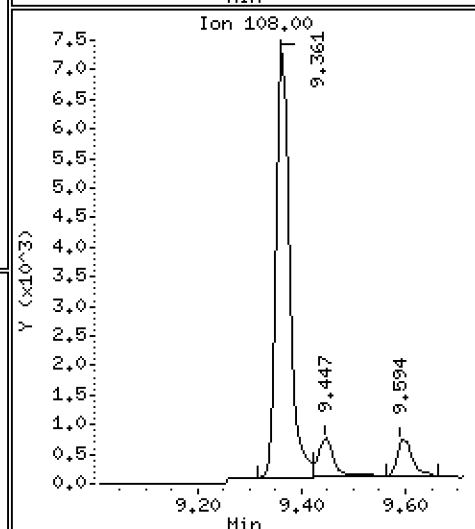
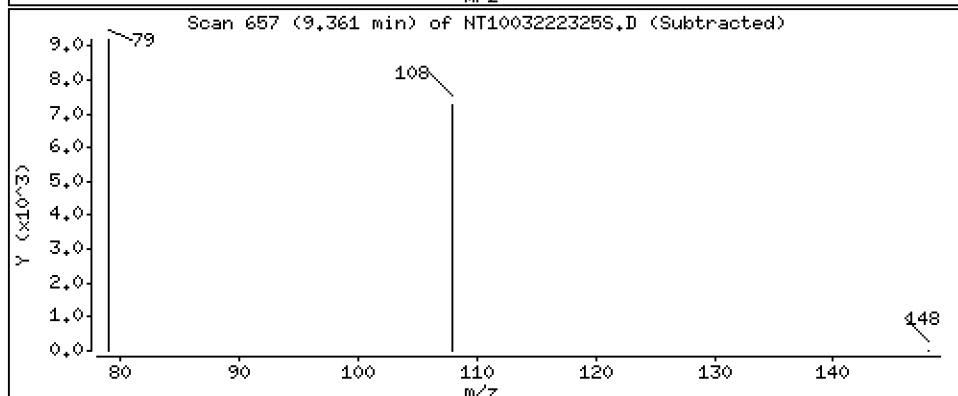
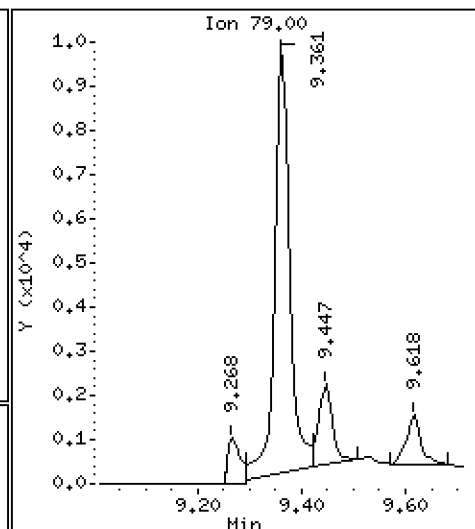
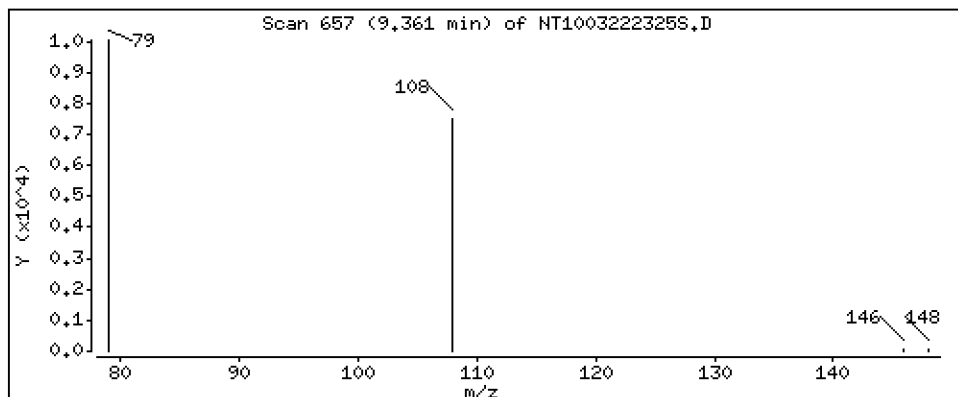
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.4678 ug/L





Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09

Volume Injected (uL): 1.0

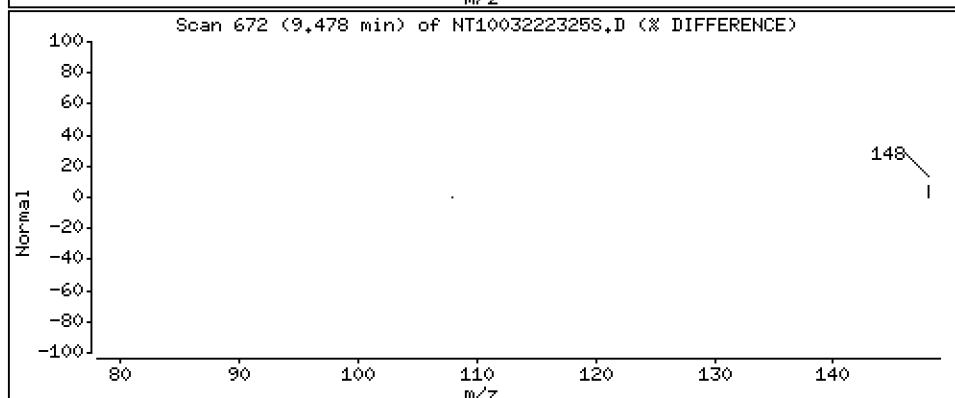
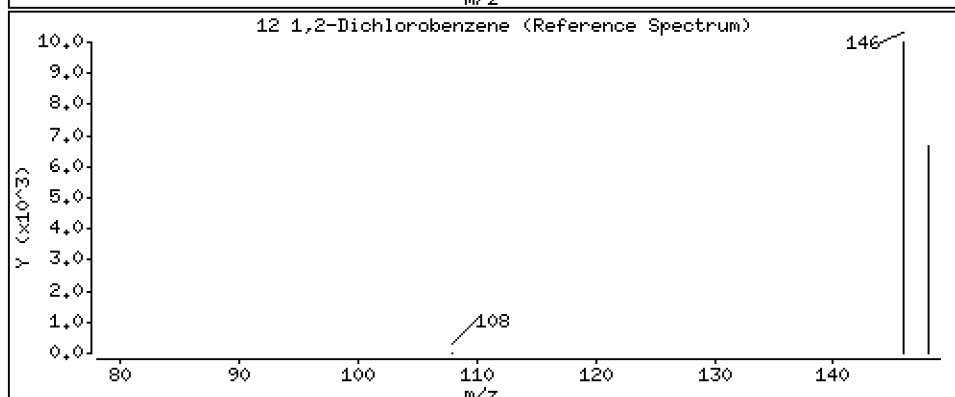
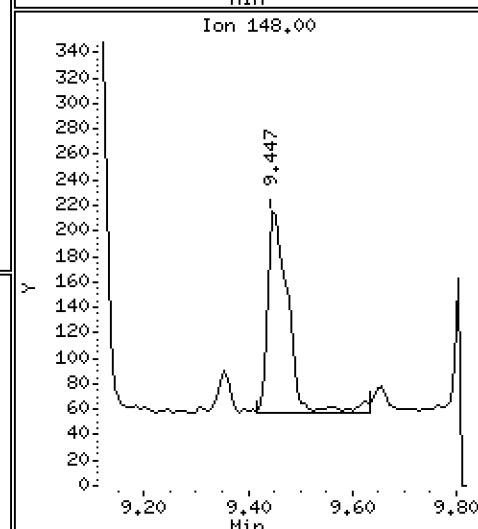
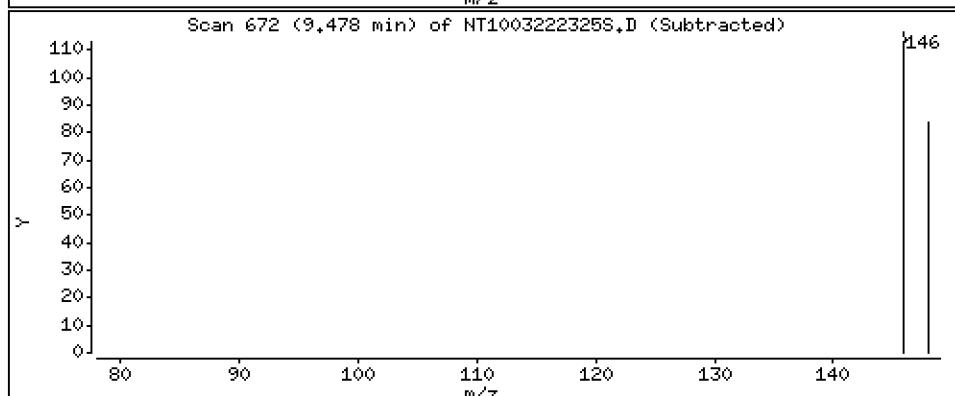
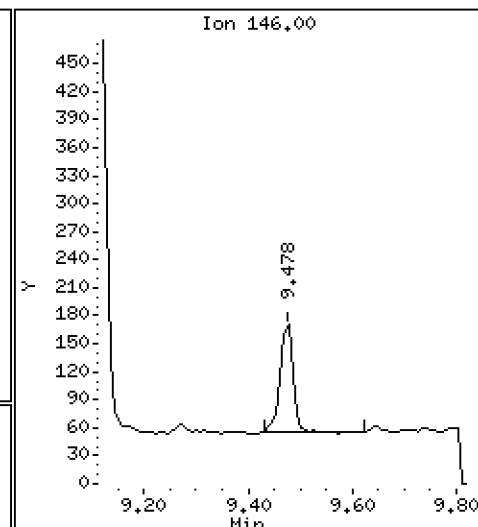
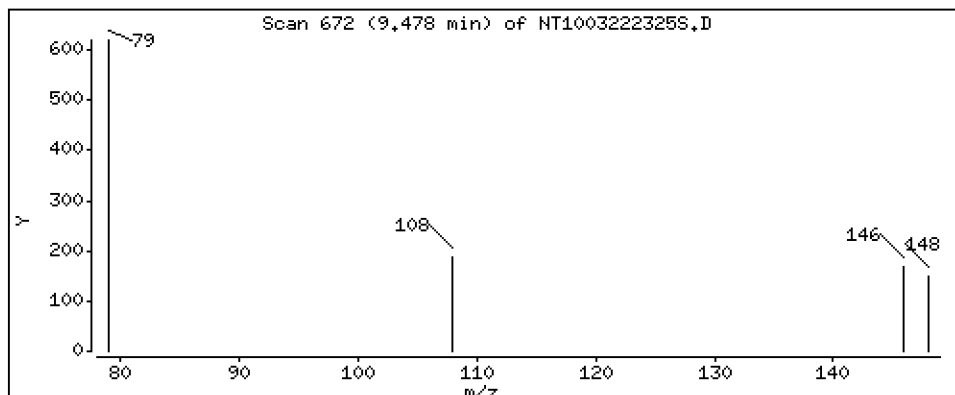
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,002940 ug/L



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09

Volume Injected (uL): 1.0

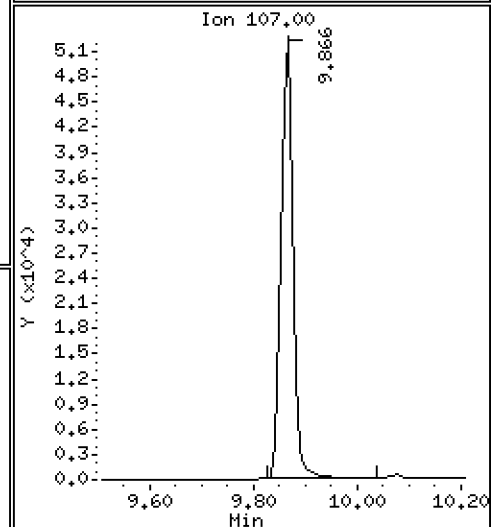
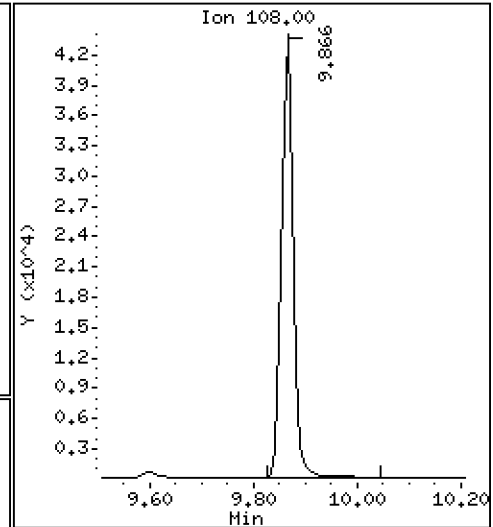
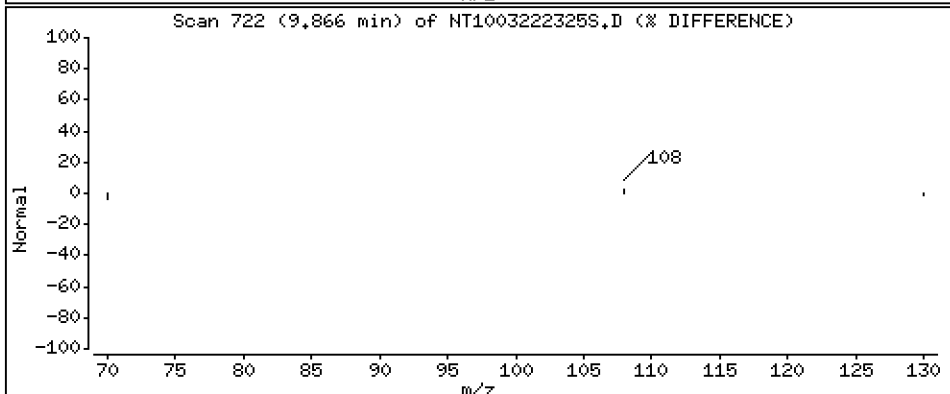
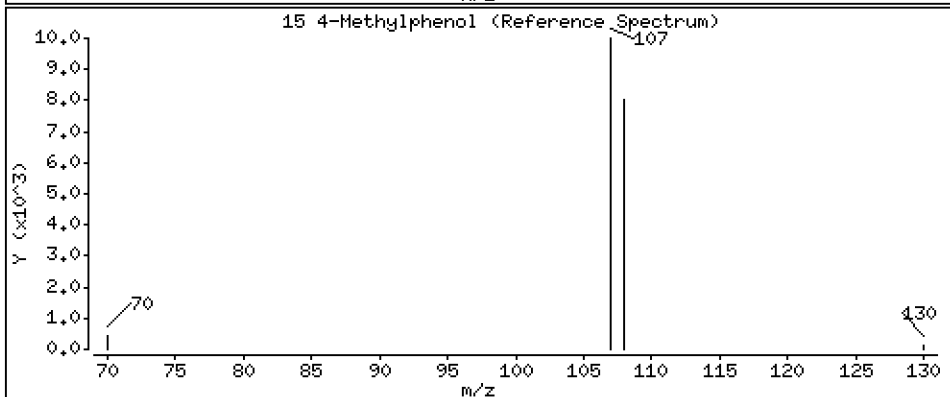
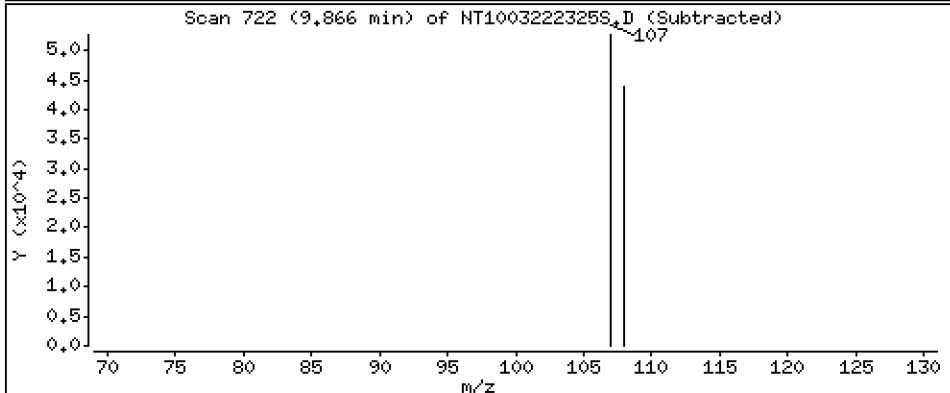
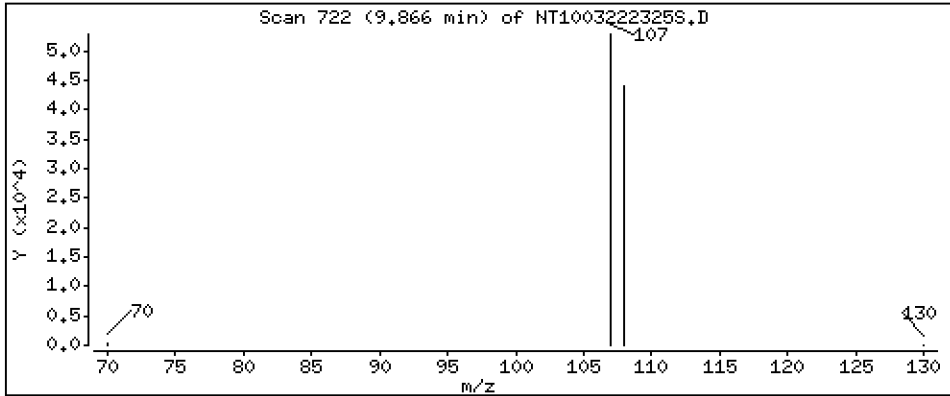
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 1,343 ug/L



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09

Volume Injected (uL): 1.0

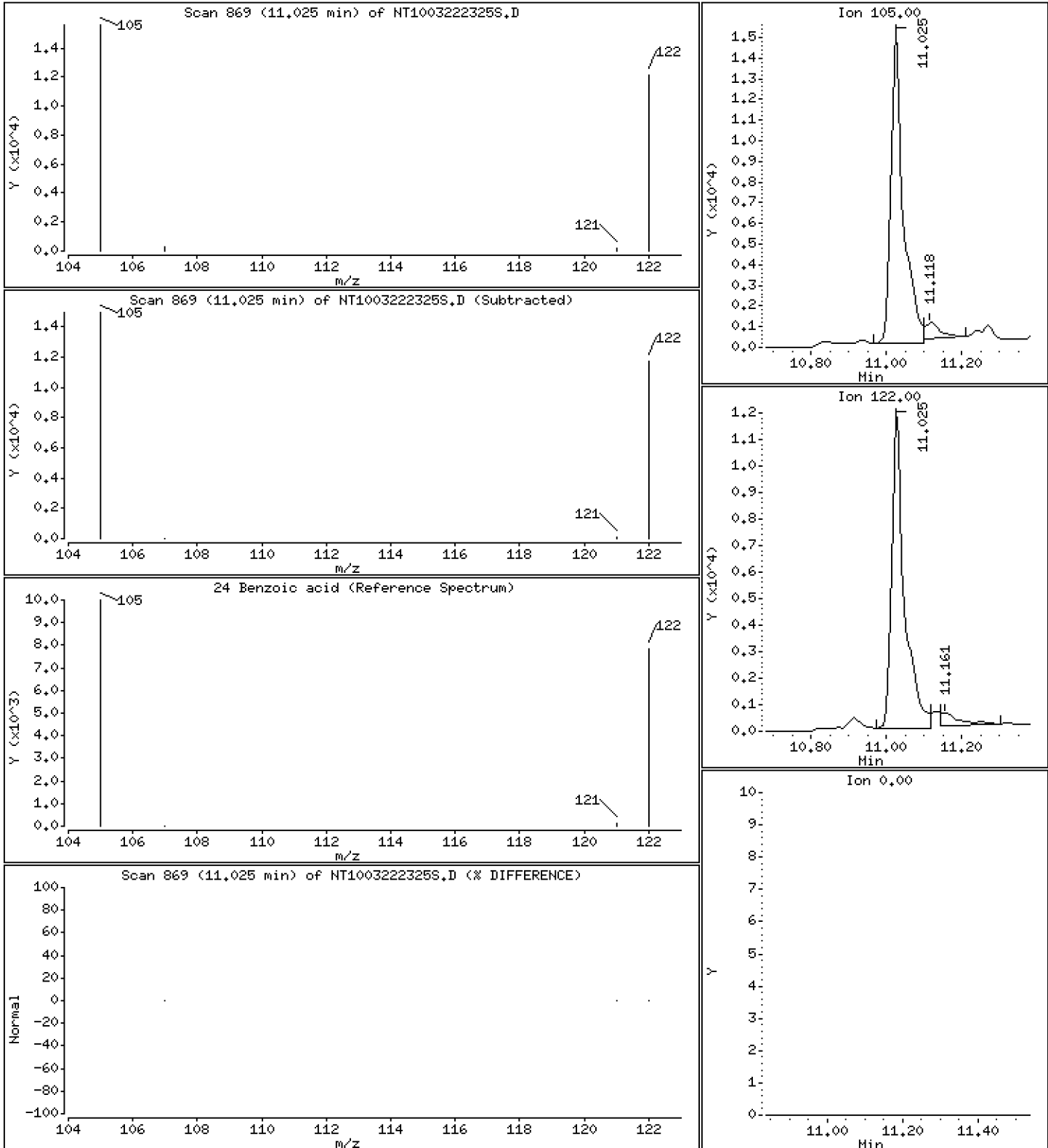
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 1,244 ug/L



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09

Volume Injected (uL): 1.0

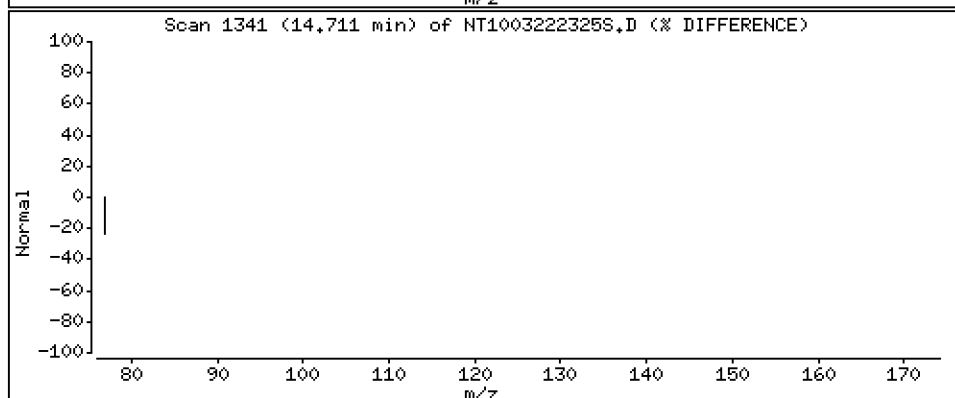
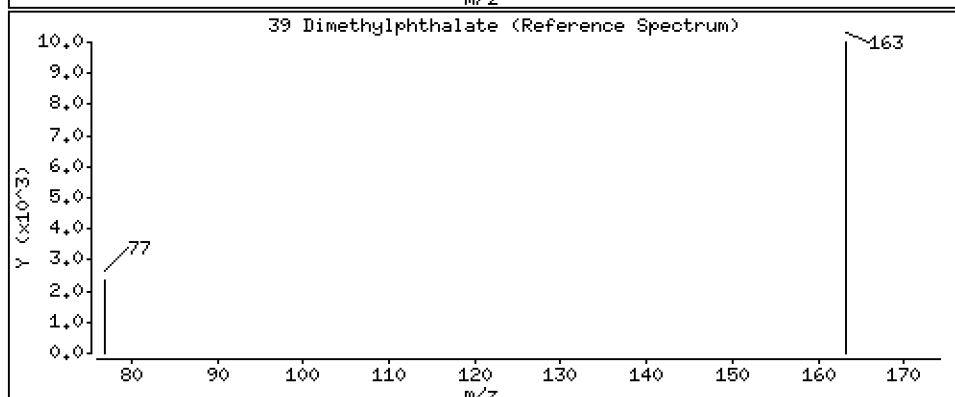
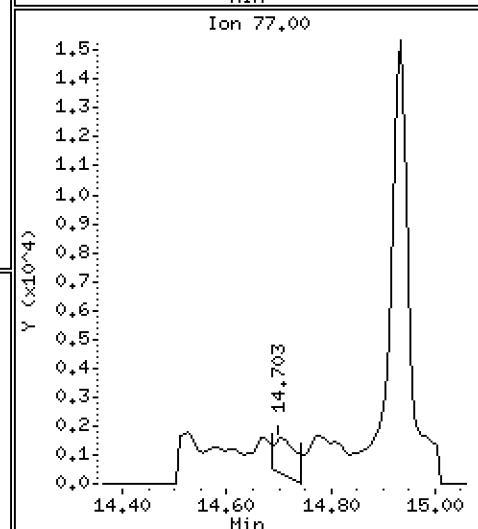
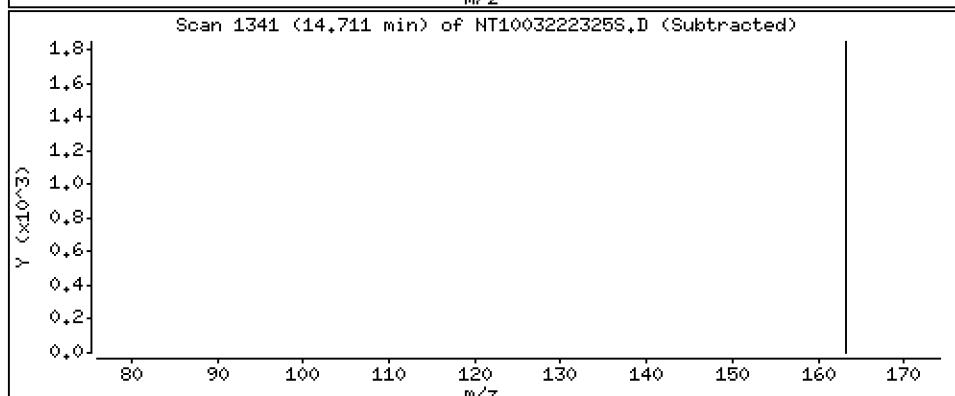
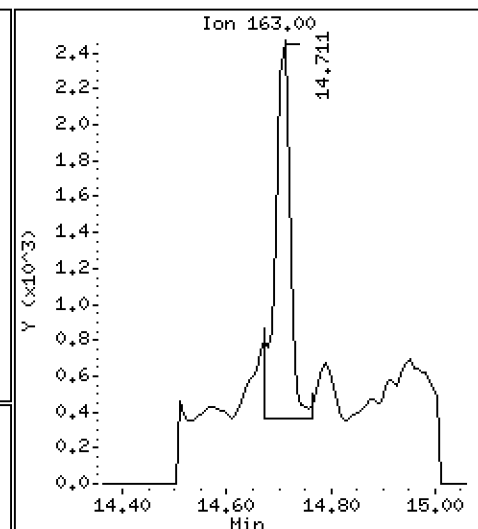
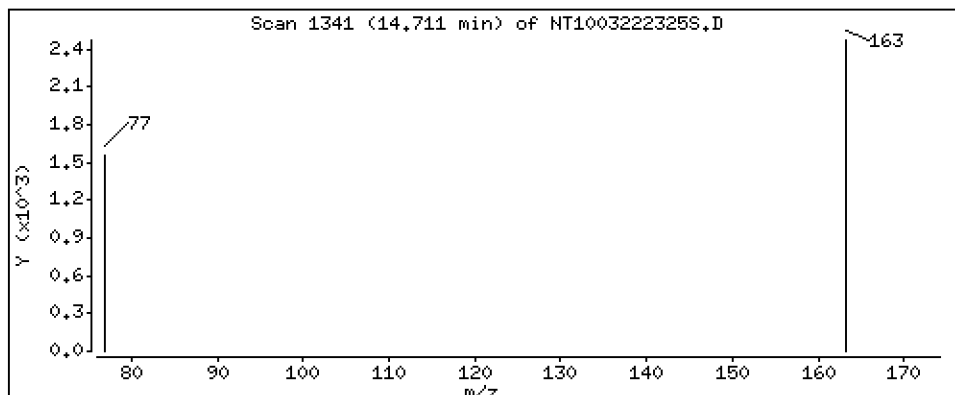
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,04158 ug/L



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09

Volume Injected (uL): 1.0

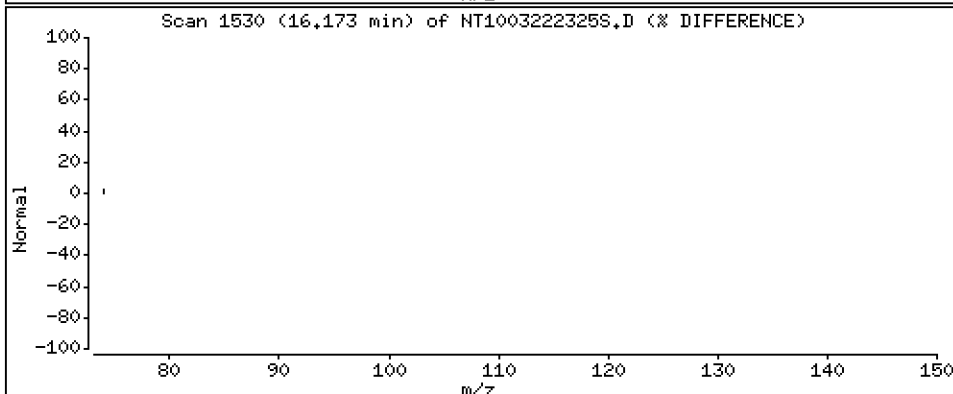
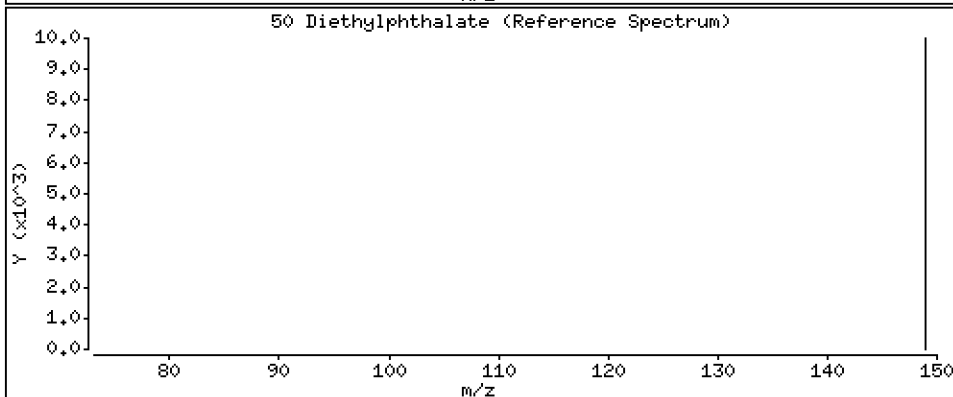
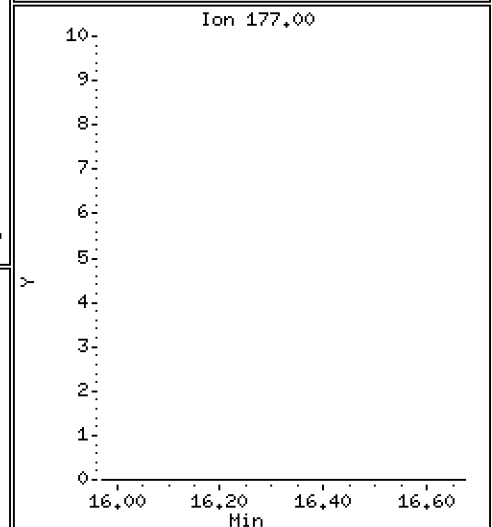
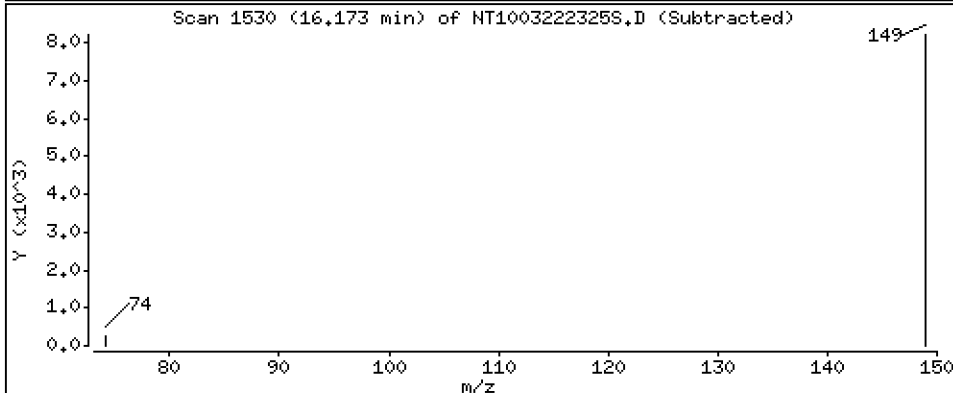
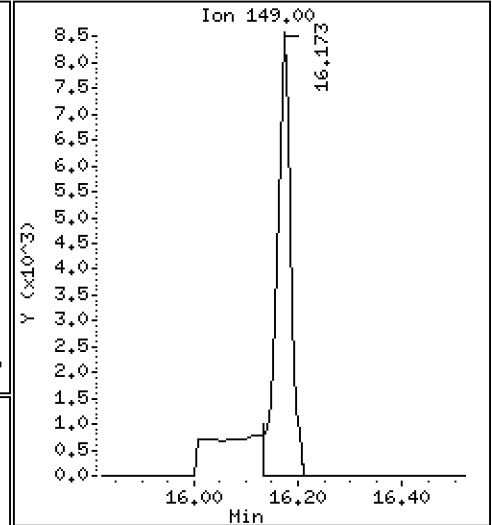
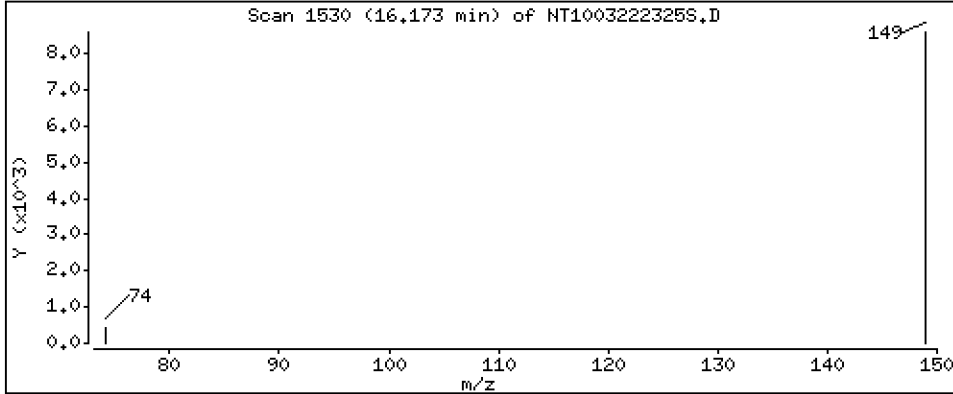
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,1564 ug/L



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09

Volume Injected (uL): 1.0

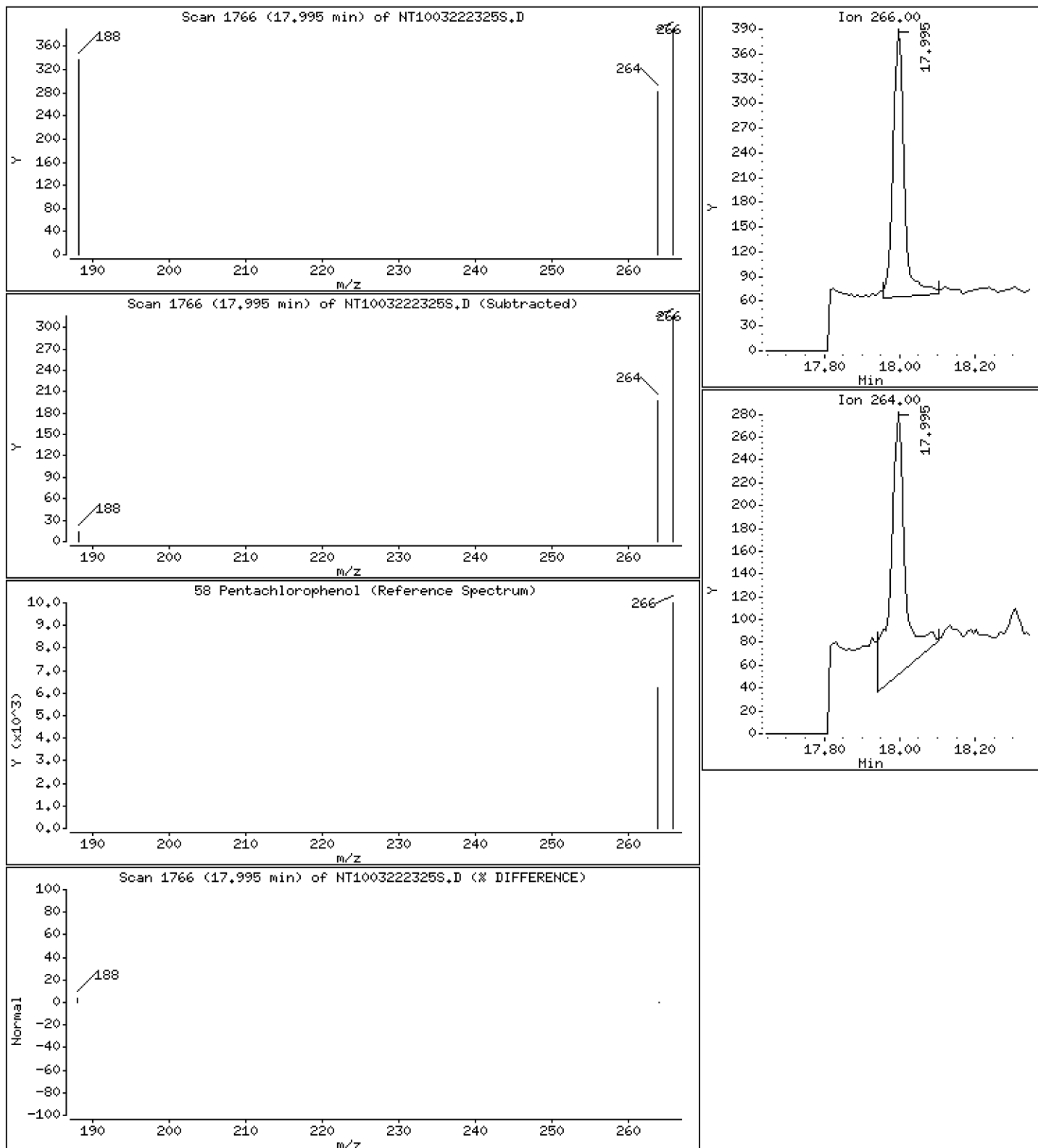
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,02988 ug/L



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09

Volume Injected (uL): 1.0

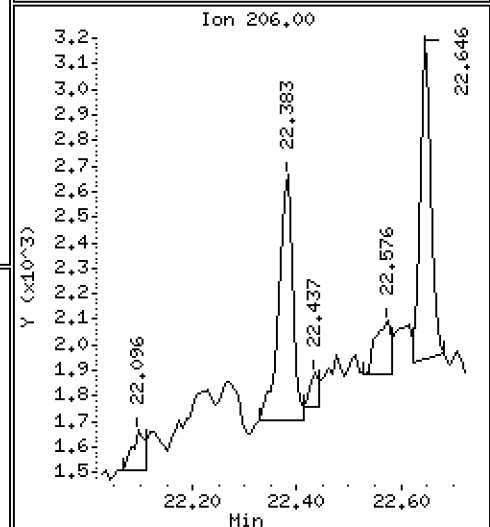
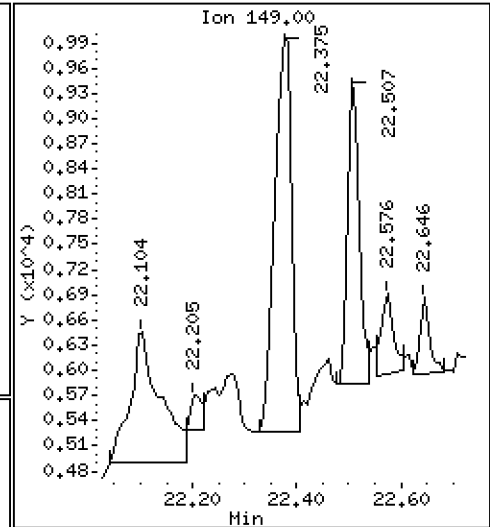
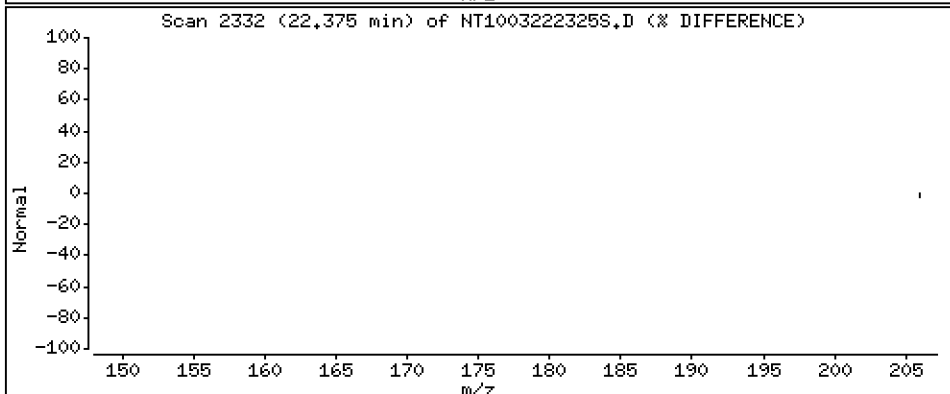
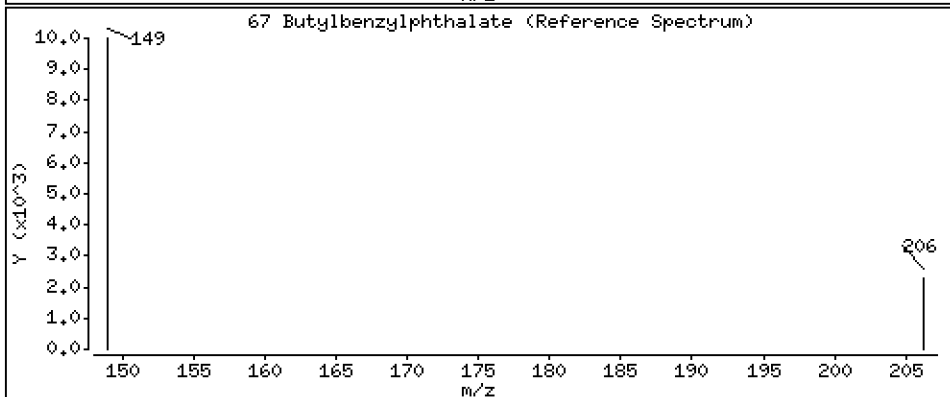
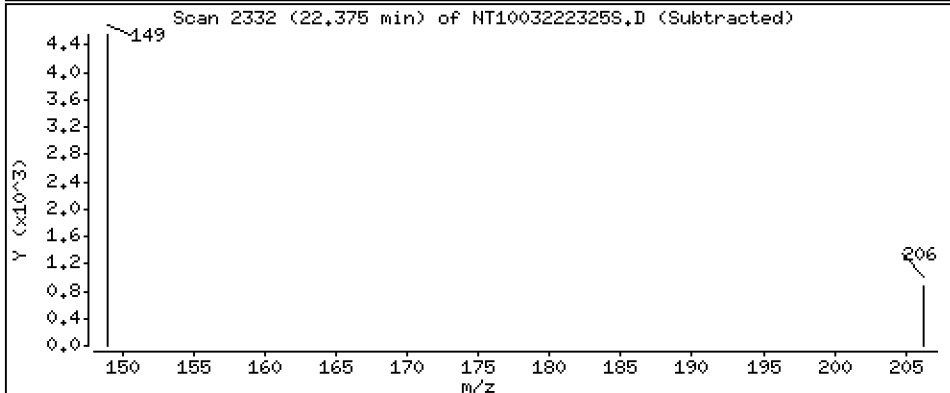
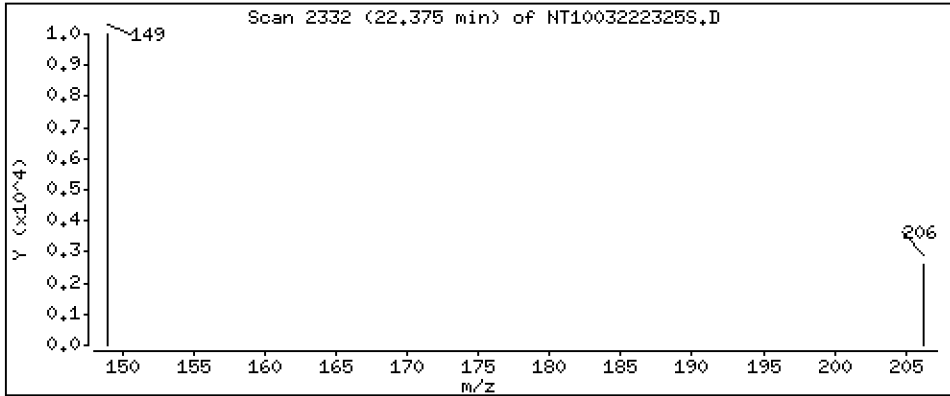
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.1298 ug/L



Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09

Volume Injected (uL): 1.0

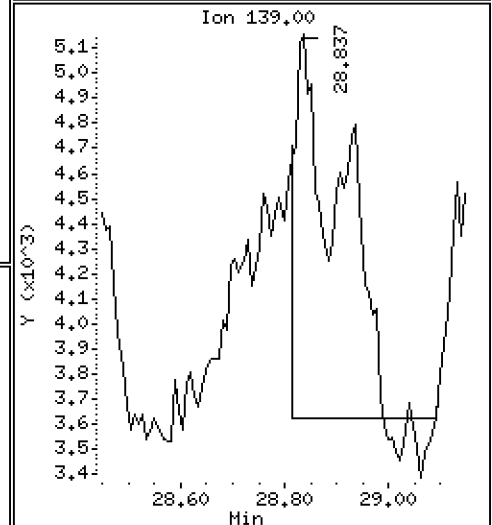
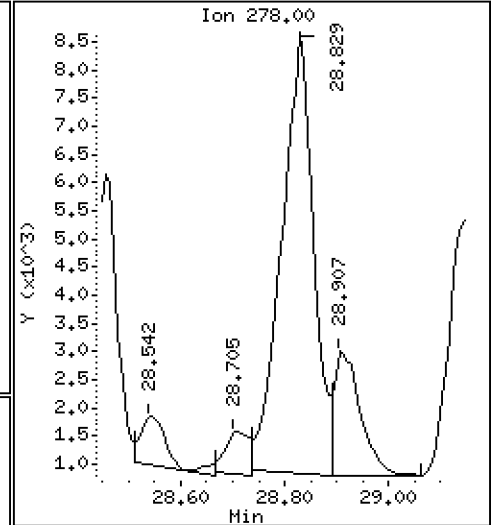
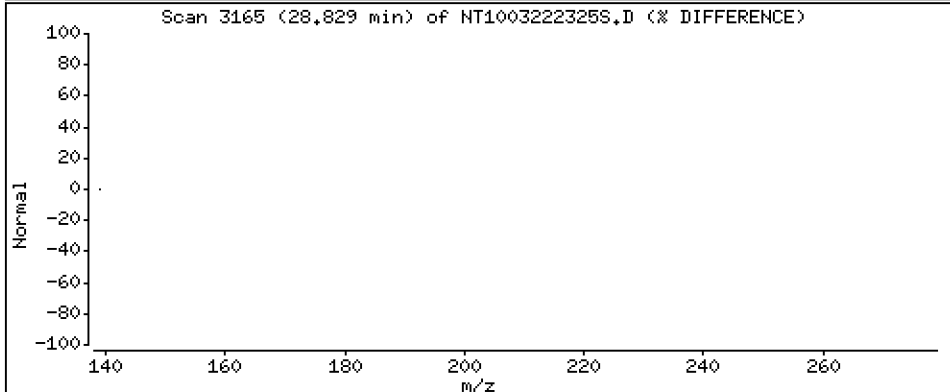
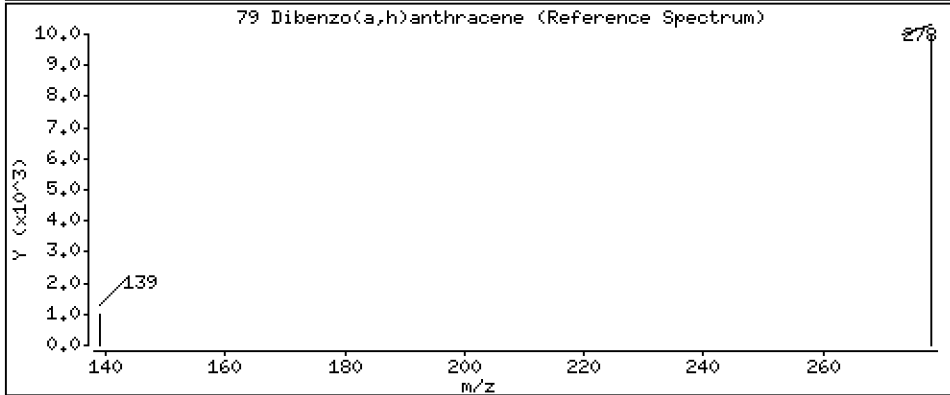
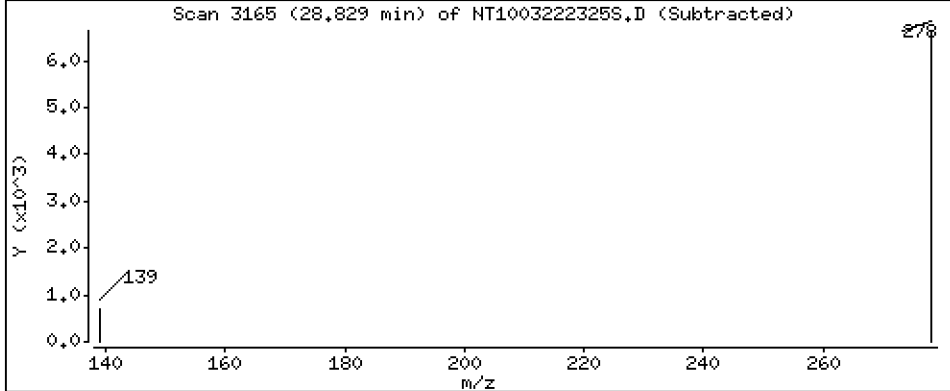
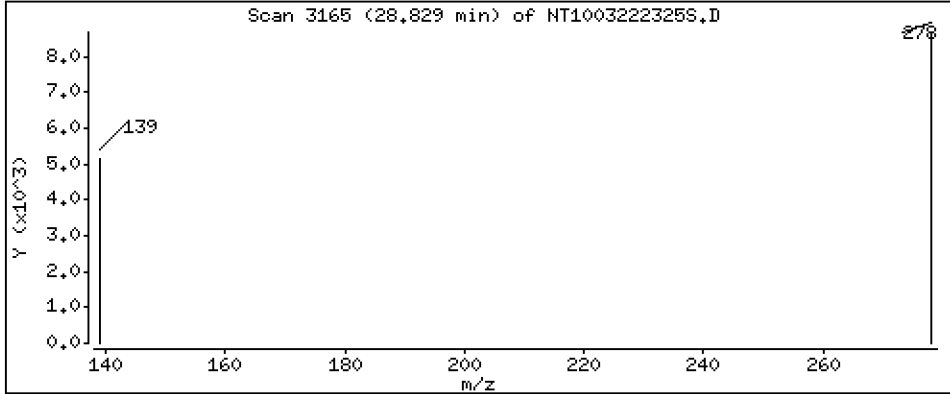
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1556 ug/L





Date : 23-MAR-2023 08:17

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-09

Volume Injected (uL): 1.0

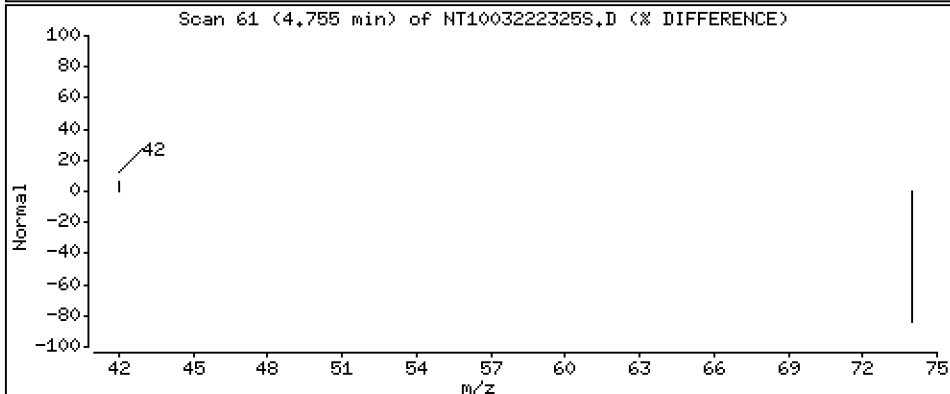
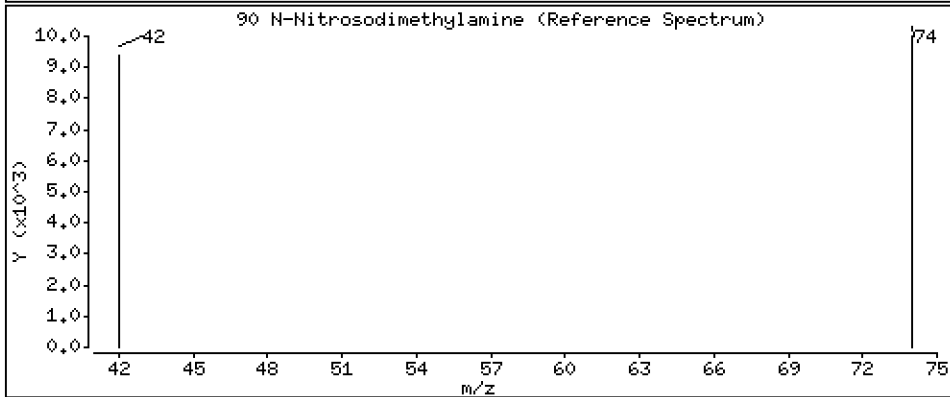
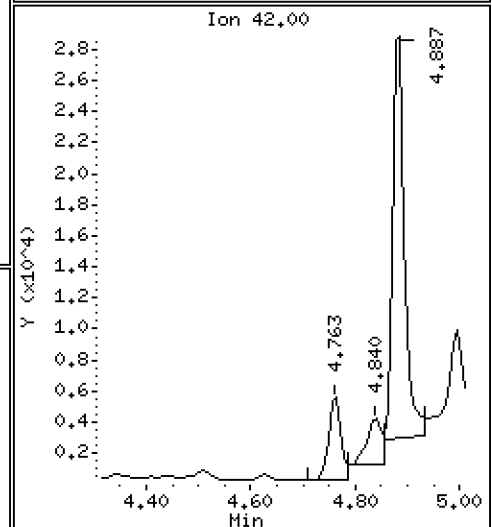
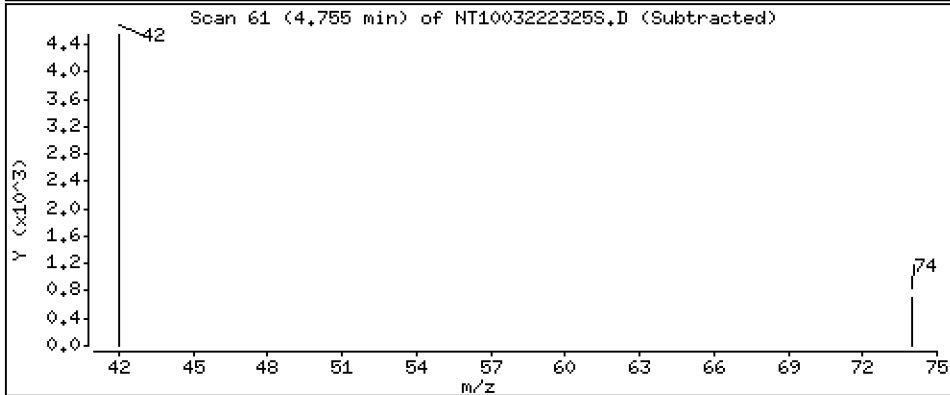
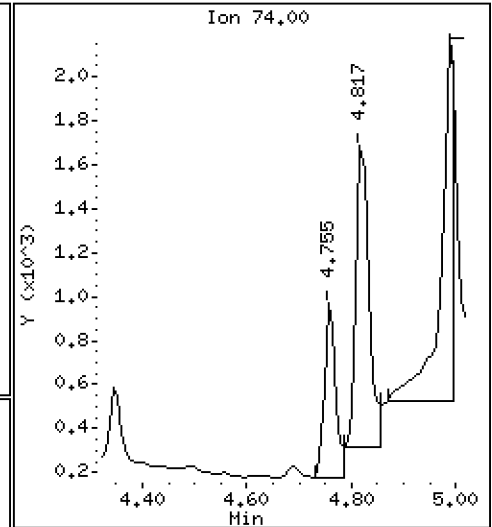
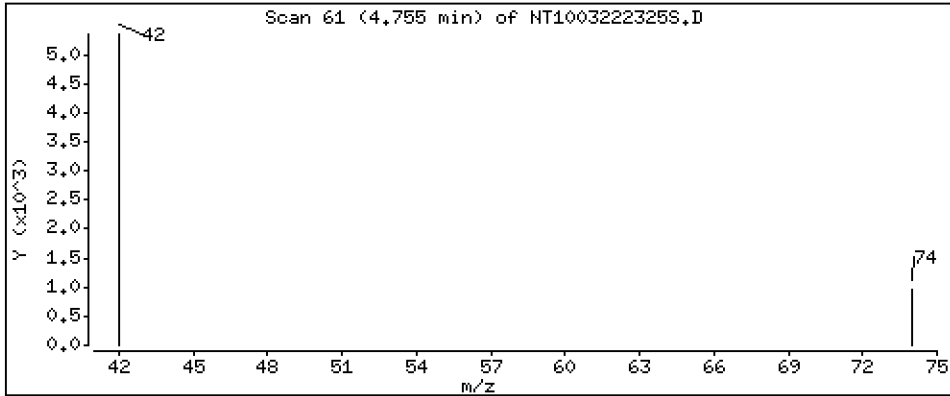
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 0.03741 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222325S.D  
 Lab Smp Id: 23A0179-09  
 Inj Date : 23-MAR-2023 08:17 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : 23A0179-09  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Meth Date : 25-Mar-2023 16:11 yev Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 20  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: ORGDATA102

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT                     | EXP RT         | REL RT | RESPONSE | CONCENTRATIONS |             |
|-------------------------------|-------|-----|------------------------|----------------|--------|----------|----------------|-------------|
|                               |       |     |                        |                |        |          | ON-COLUMN      | FINAL       |
|                               | MASS  |     |                        |                |        |          | (ug/mL)        | ( ug/L)     |
| \$ 1 2-Fluorophenol           | 112   |     | 6.864                  | 6.856 (0.755)  |        | 195480   | 3.89079        | 3.891 (R)   |
| 3 Phenol                      | 94    |     | 8.478                  | 8.471 (0.933)  |        | 431004   | 6.25292        | 6.253       |
| 7 1,3-Dichlorobenzene         | 146   |     | Compound Not Detected. |                |        |          |                |             |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.089                  | 9.090 (1.000)  |        | 165680   | 4.00000        |             |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.120                  | 9.121 (1.003)  |        | 704      | 0.01131        | 0.01131 (M) |
| 11 Benzyl alcohol             | 79    |     | 9.361                  | 9.361 (1.030)  |        | 18693    | 0.46779        | 0.4678      |
| 12 1,2-Dichlorobenzene        | 146   |     | 9.477                  | 9.470 (1.043)  |        | 180      | 0.00294        | 0.002940    |
| 13 2-Methylphenol             | 108   |     | Compound Not Detected. |                |        |          |                |             |
| 15 4-Methylphenol             | 108   |     | 9.866                  | 9.858 (1.085)  |        | 66671    | 1.34337        | 1.343       |
| 16 N-Nitroso-di-n-propylamine | 70    |     | Compound Not Detected. |                |        |          |                |             |
| 22 2,4-Dimethylphenol         | 107   |     | Compound Not Detected. |                |        |          |                |             |
| 24 Benzoic acid               | 105   |     | 11.024                 | 11.033 (0.952) |        | 35328    | 1.24396        | 1.244       |
| 26 1,2,4-Trichlorobenzene     | 180   |     | Compound Not Detected. |                |        |          |                |             |
| * 27 Naphthalene-d8           | 136   |     | 11.577                 | 11.577 (1.000) |        | 598211   | 4.00000        |             |
| 30 Hexachlorobutadiene        | 225   |     | Compound Not Detected. |                |        |          |                |             |
| 39 Dimethylphthalate          | 163   |     | 14.710                 | 14.711 (0.967) |        | 3970     | 0.04158        | 0.04158 (M) |
| * 42 Acenaphthene-d10         | 162   |     | 15.206                 | 15.206 (1.000) |        | 302560   | 4.00000        |             |
| 50 Diethylphthalate           | 149   |     | 16.172                 | 16.172 (1.064) |        | 15468    | 0.15638        | 0.1564      |
| 54 N-Nitrosodiphenylamine     | 169   |     | Compound Not Detected. |                |        |          |                |             |
| 57 Hexachlorobenzene          | 284   |     | Compound Not Detected. |                |        |          |                |             |

| Compounds                 | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                           |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>( ug/L) |
| 58 Pentachlorophenol      | 266       | 17.995 | 17.995 | (0.986) | 636      | 0.02988              | 0.02988 (M)      |
| * 59 Phenanthrene-d10     | 188       | 18.258 | 18.258 | (1.000) | 642018   | 4.00000              |                  |
| \$ 66 Terphenyl-d14       | 244       | 21.438 | 21.438 | (0.918) | 334235   | 3.39961              | 3.400 (R)        |
| 67 Butylbenzylphthalate   | 149       | 22.374 | 22.375 | (0.958) | 10305    | 0.12979              | 0.1298           |
| * 69 Chrysene-d12         | 240       | 23.358 | 23.350 | (1.000) | 603401   | 4.00000              |                  |
| * 77 Perylene-d12         | 264       | 26.052 | 26.037 | (1.000) | 670397   | 4.00000              |                  |
| 79 Dibenzo(a,h)anthracene | 278       | 28.829 | 28.798 | (1.107) | 34227    | 0.15563              | 0.1556           |
| 90 N-Nitrosodimethylamine | 74        | 4.755  | 4.670  | (0.523) | 1192     | 0.03741              | 0.03741          |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT1003222325S.D  
 Lab Smp Id: 23A0179-09  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Misc Info:

Calibration Date: 23-MAR-2023  
 Calibration Time: 03:52  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 140507   | 70254      | 281014  | 165680 | 17.92 |
| 27 Naphthalene-d8   | 499190   | 249595     | 998380  | 598211 | 19.84 |
| 42 Acenaphthene-d10 | 250303   | 125152     | 500606  | 302560 | 20.88 |
| 59 Phenanthrene-d10 | 496896   | 248448     | 993792  | 642018 | 29.21 |
| 69 Chrysene-d12     | 465837   | 232919     | 931674  | 603401 | 29.53 |
| 77 Perylene-d12     | 551078   | 275539     | 1102156 | 670397 | 21.65 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.09     | 8.59     | 9.59  | 9.09   | -0.00 |
| 27 Naphthalene-d8   | 11.58    | 11.08    | 12.08 | 11.58  | -0.00 |
| 42 Acenaphthene-d10 | 15.21    | 14.71    | 15.71 | 15.21  | -0.00 |
| 59 Phenanthrene-d10 | 18.26    | 17.76    | 18.76 | 18.26  | -0.00 |
| 69 Chrysene-d12     | 23.35    | 22.85    | 23.85 | 23.36  | 0.03  |
| 77 Perylene-d12     | 26.04    | 25.54    | 26.54 | 26.05  | 0.06  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222325S.D

Lab ID: 23A0179-09

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 23-MAR-2023 08:17

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND               |
|-------|---------|--------|------------------------|
| 0.523 | 0.514   | 0.0093 | N-Nitrosodimethylamine |

RRT check based on Ccal File: SIM.b/NT1003222318S.D

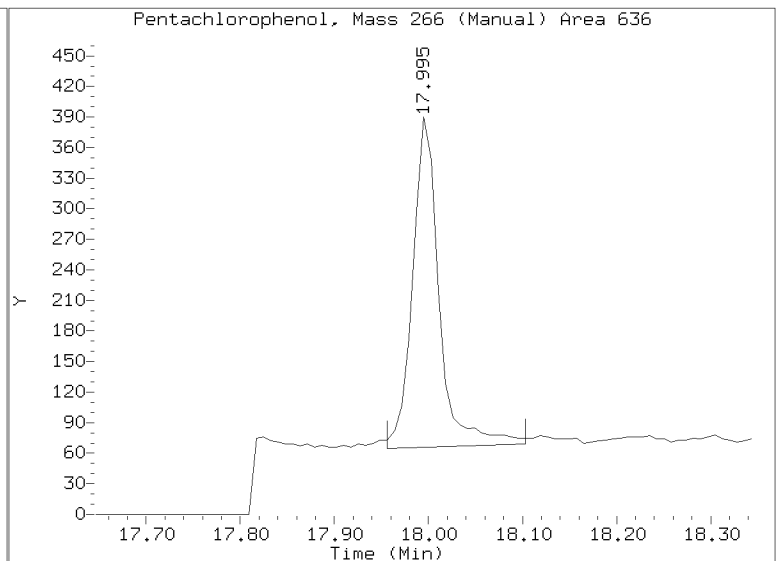
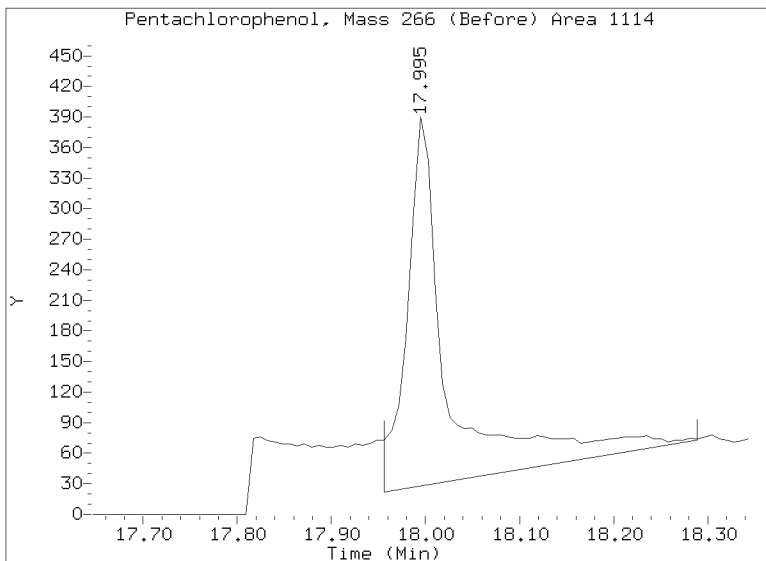
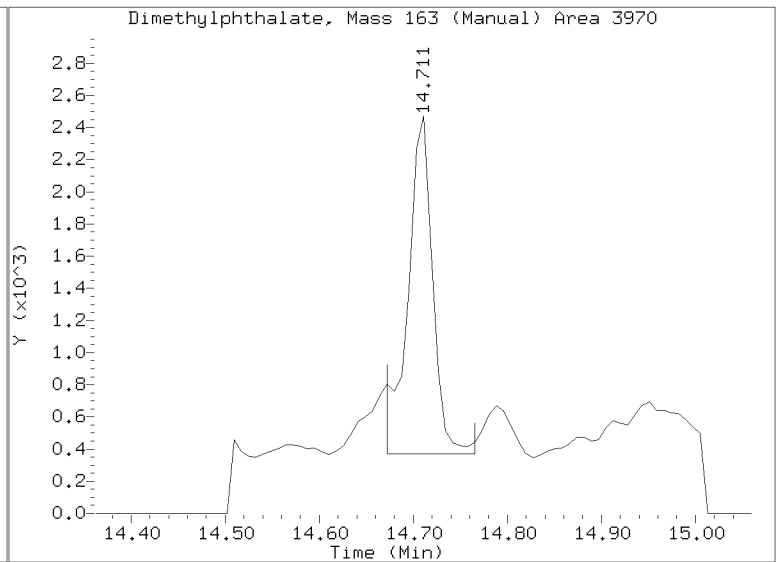
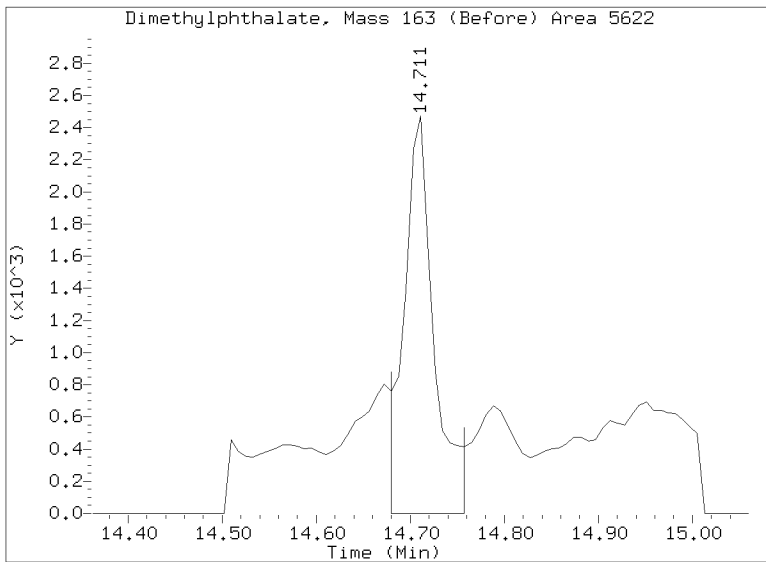
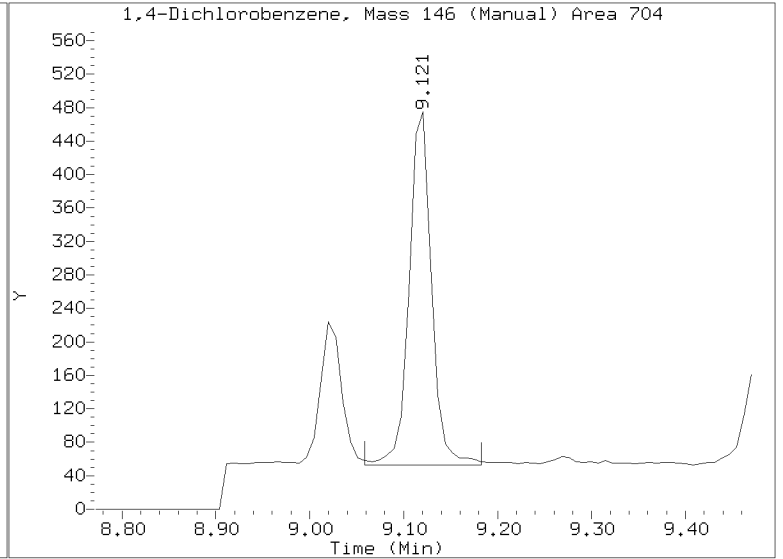
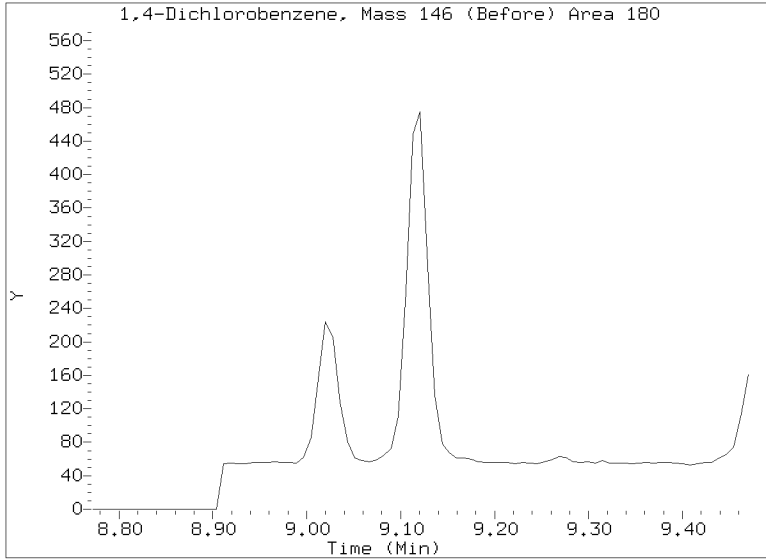
On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222325S.D  
Injection Date: 23-MAR-2023 08:17  
Lab ID:23A0179-09 Client ID:  
Report Date: 03/25/2023 16:12





Form I  
ORGANIC ANALYSIS DATA SHEET  
EPA 8270E-SIM  
SIM SVOC Organics (Dual scan list)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-10RE1 A

SDG: 23A0179

Sampled: 01/10/23 11:28

Prepared: 03/17/23 14:20

File ID: NT1003222326S.D

% Solids: 49.27

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 08:55

Batch: BLC0442

Sequence: SLC0407

Initial/Final: 20.77 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00049

Cleanups: GPC

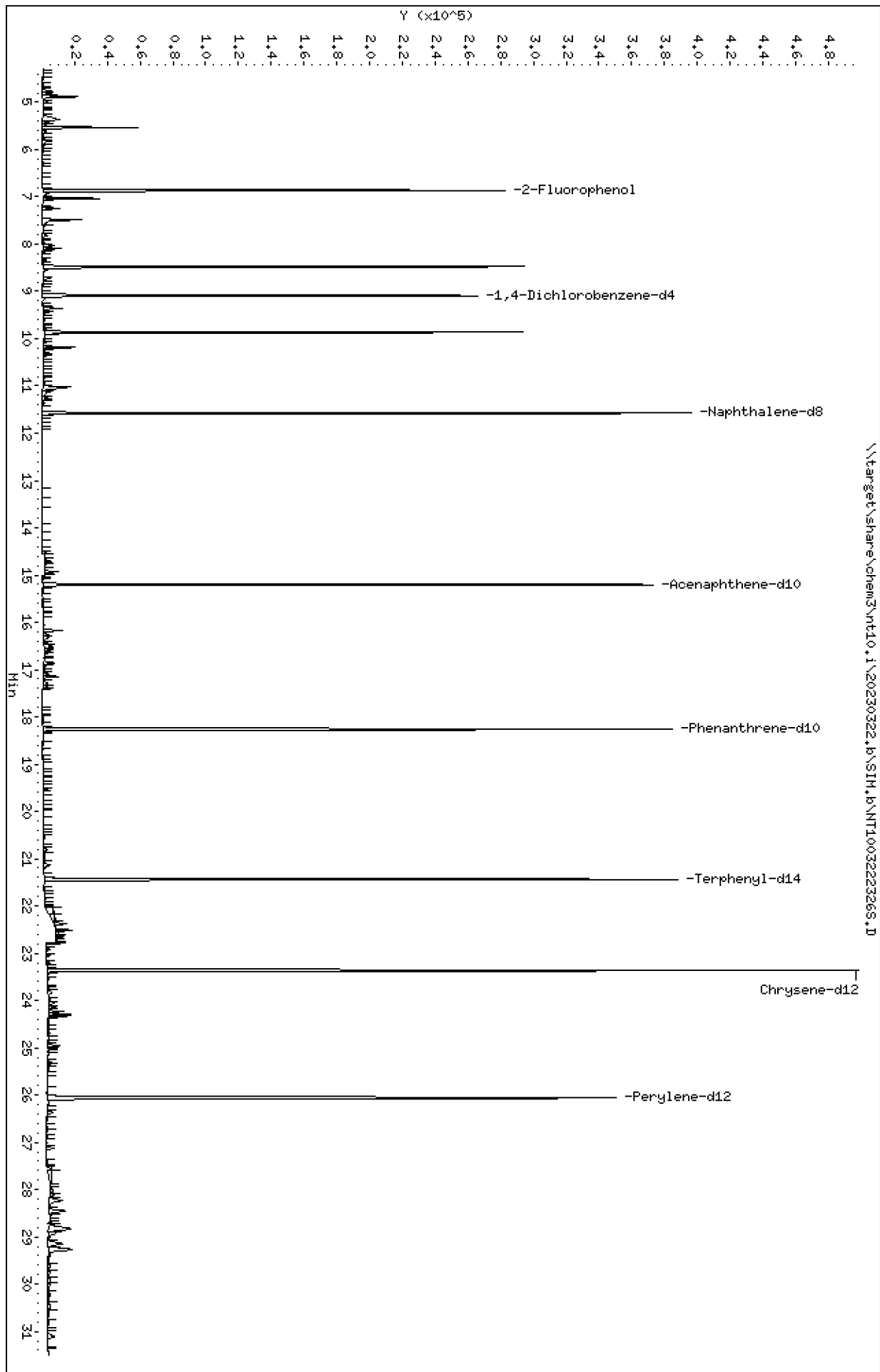
| CAS NO.  | COMPOUND               | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|------------------------|----------|----------------------|---|------|------|
| 106-46-7 | 1,4-Dichlorobenzene    | 1        | 4.9                  | U | 0.6  | 4.9  |
| 95-50-1  | 1,2-Dichlorobenzene    | 1        | 4.9                  | U | 0.7  | 4.9  |
| 100-51-6 | Benzyl Alcohol         | 1        | 32.3                 |   | 2.4  | 19.5 |
| 65-85-0  | Benzoic acid           | 1        | 89.2                 | J | 13.1 | 97.7 |
| 105-67-9 | 2,4-Dimethylphenol     | 1        | 19.5                 | U | 2.1  | 19.5 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1        | 4.9                  | U | 2.6  | 4.9  |
| 86-30-6  | N-Nitrosodiphenylamine | 1        | 4.9                  | U | 1.3  | 4.9  |
| 87-86-5  | Pentachlorophenol      | 1        | 2.8                  | J | 2.1  | 19.5 |

| SURROGATES      | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|-----------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol  | 732.90                | 549                   | 74.9  | 27 - 120  |   |
| p-Terphenyl-d14 | 488.60                | 473                   | 96.9  | 37 - 120  |   |

Data File: \\target\share\chem3\nt10.1\20230322.16\SIM.6\N10032223265.D  
Date: 23-MAR-2023 08:55  
Client ID:  
Sample Info: 23A0179-10  
Volume Injected (uL): 1.0  
Column phase: ZB-5msi

Instrument: nt10.1  
Operator: JGR  
Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\SIM.6\N10032223265.D





Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10

Volume Injected (uL): 1.0

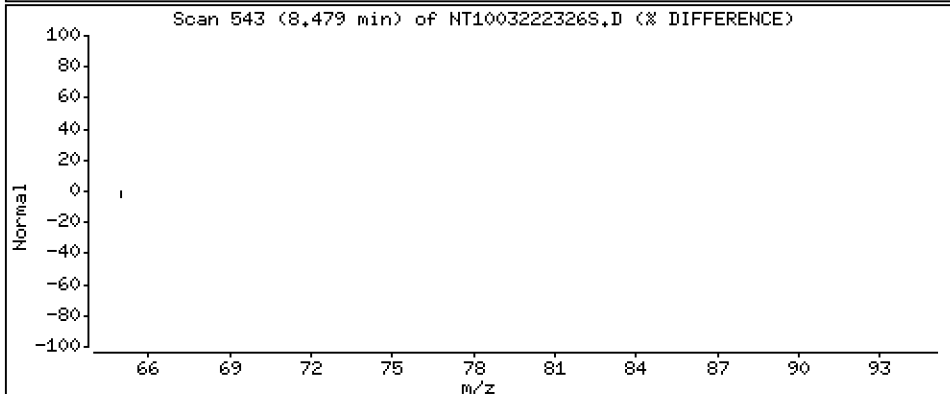
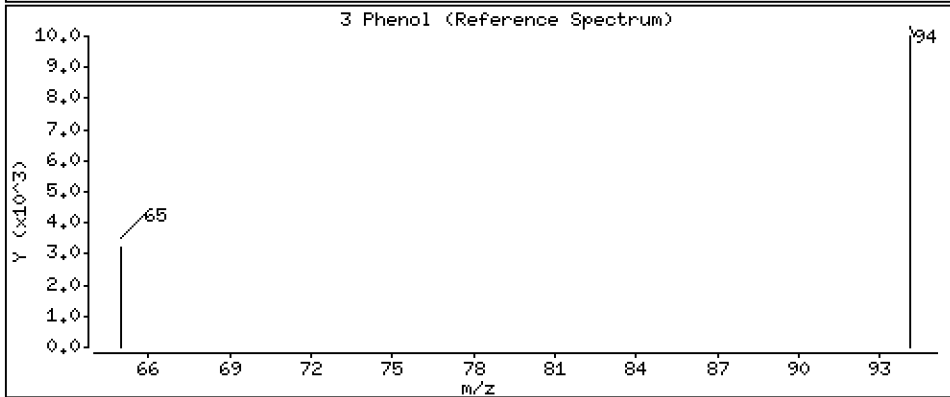
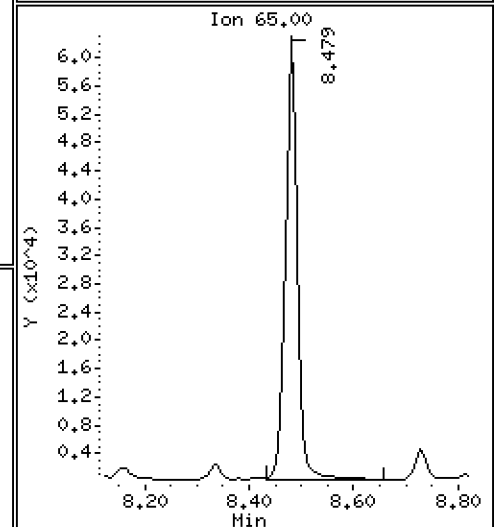
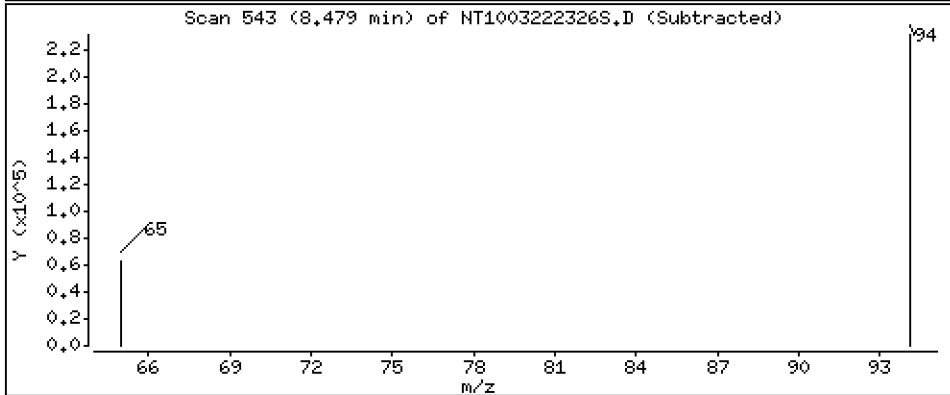
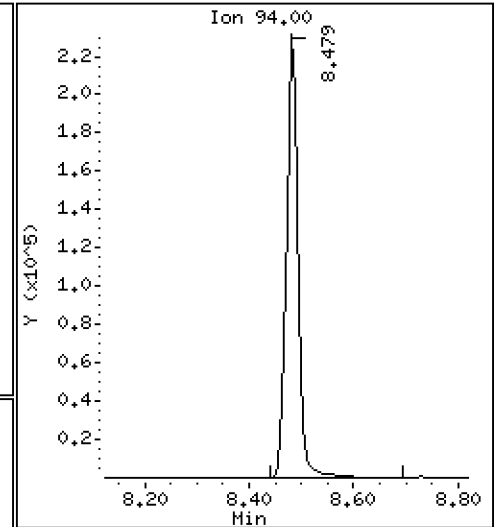
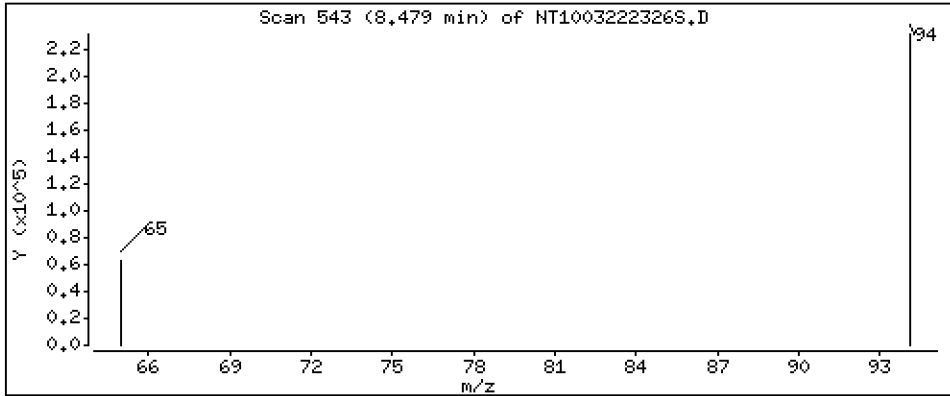
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 5,164 ug/L



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10

Volume Injected (uL): 1.0

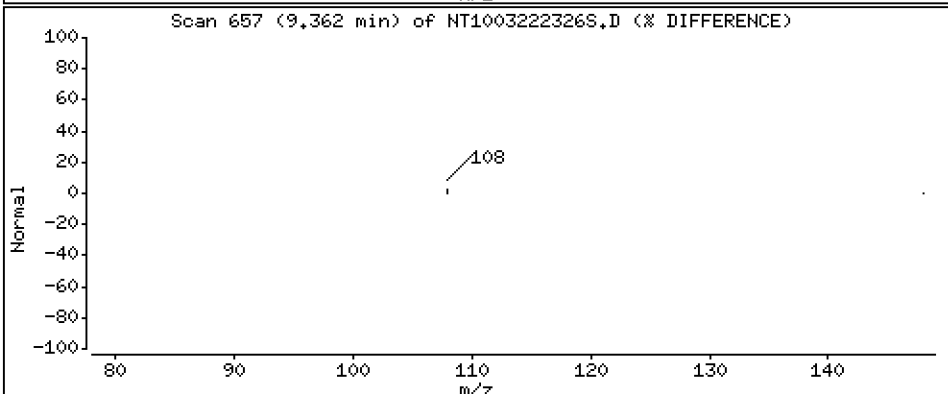
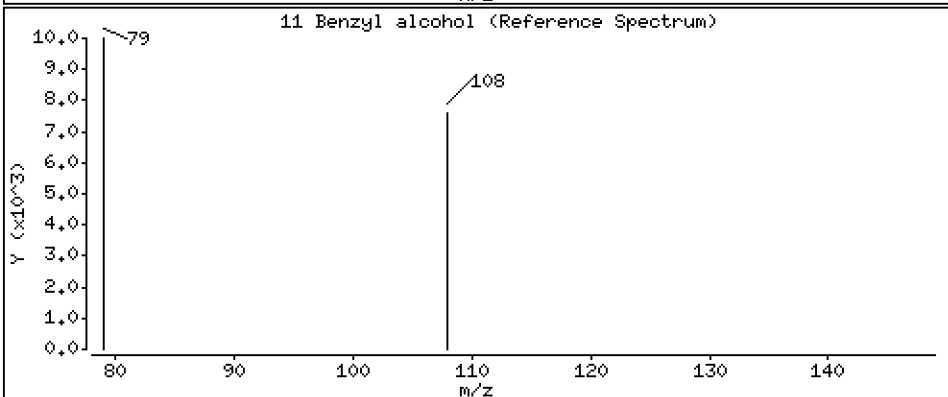
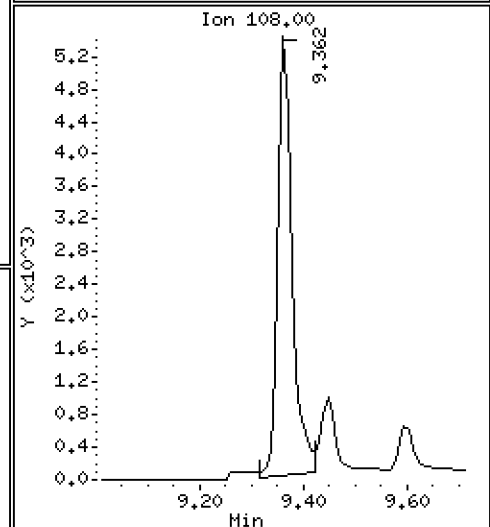
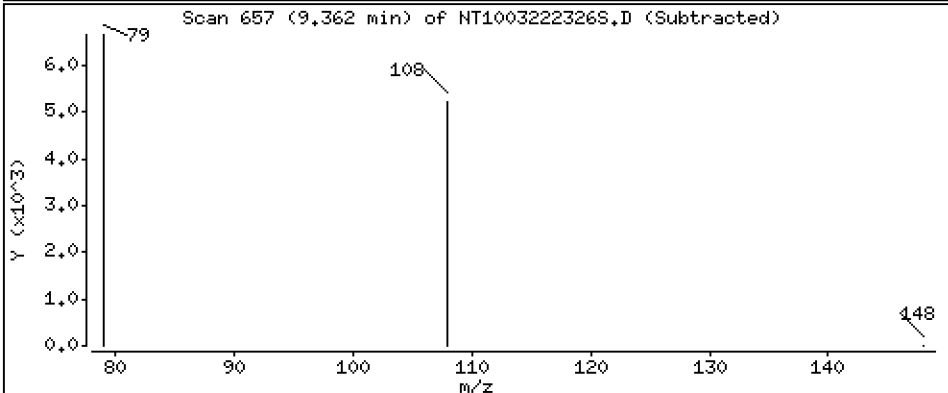
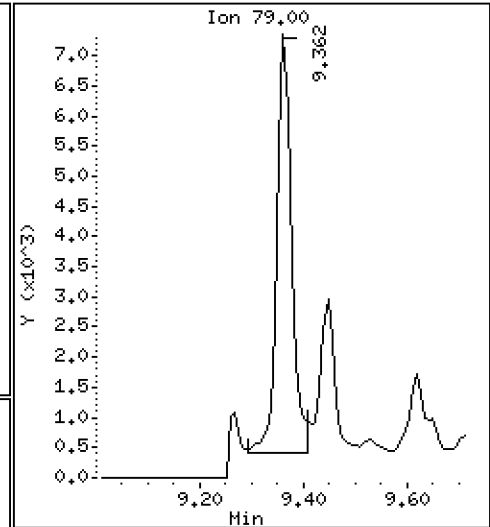
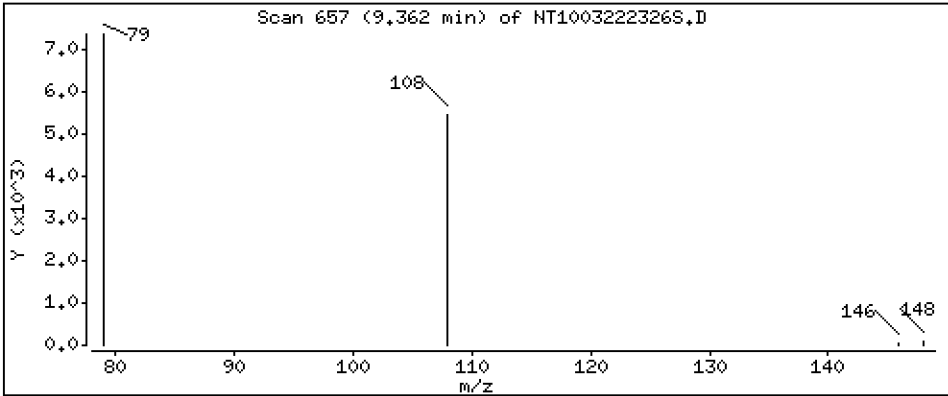
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 0,3310 ug/L



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10

Volume Injected (uL): 1.0

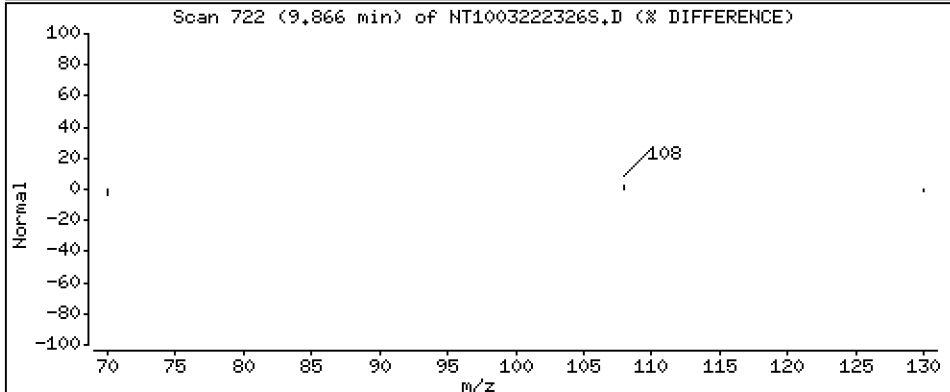
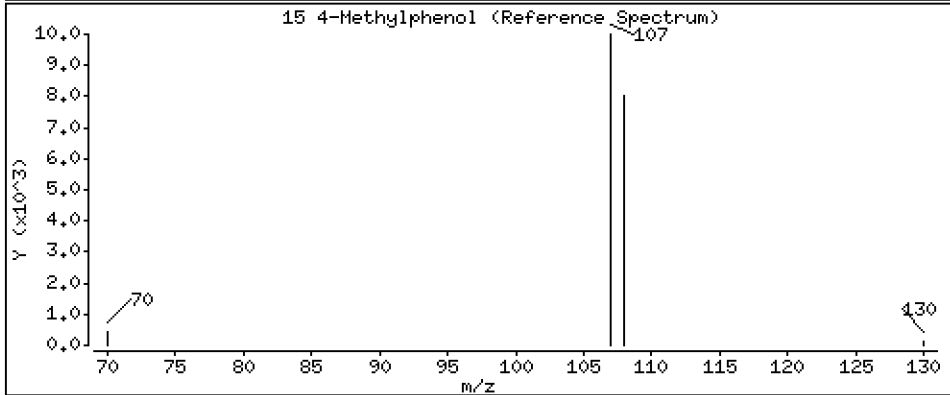
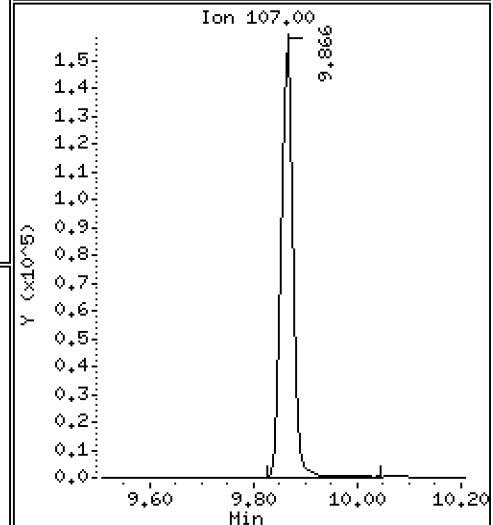
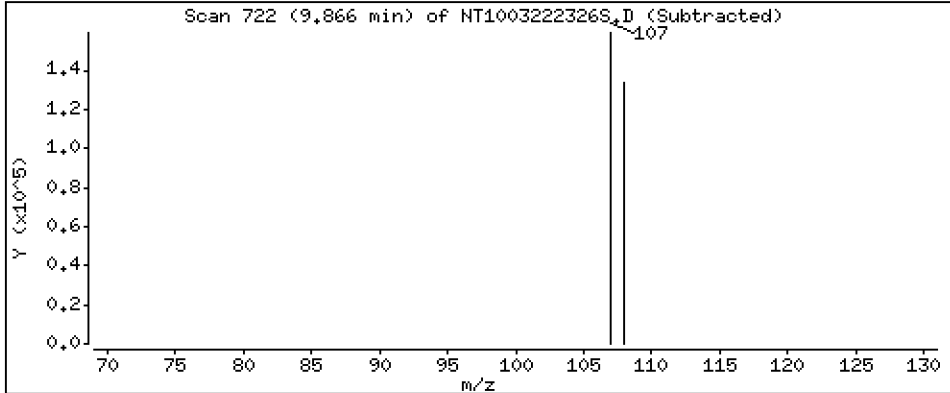
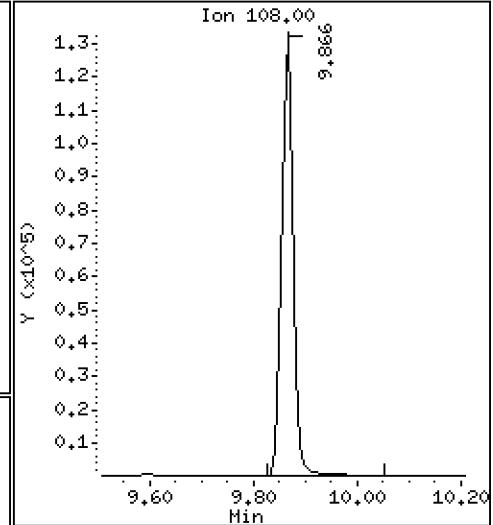
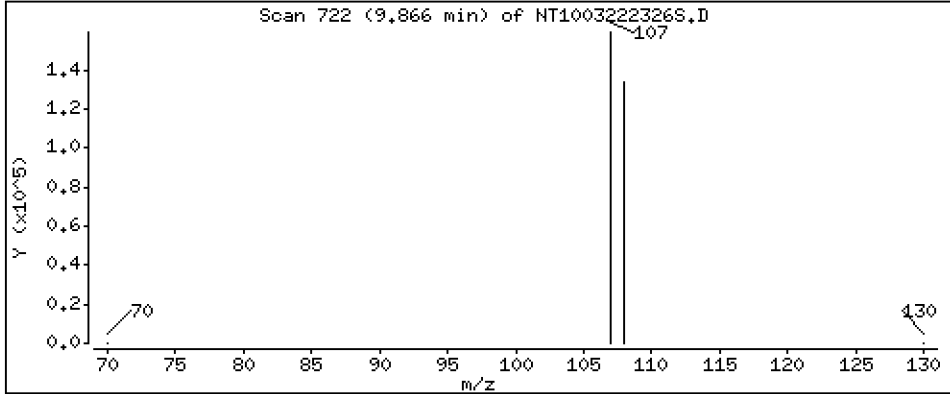
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 3,994 ug/L



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10

Volume Injected (uL): 1.0

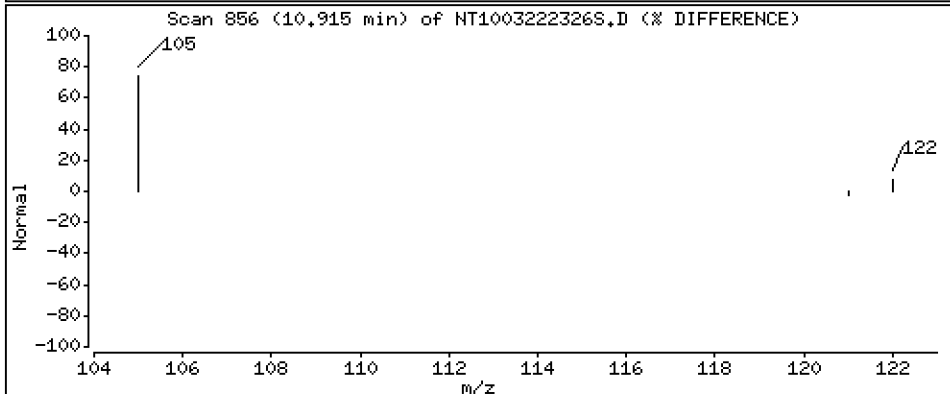
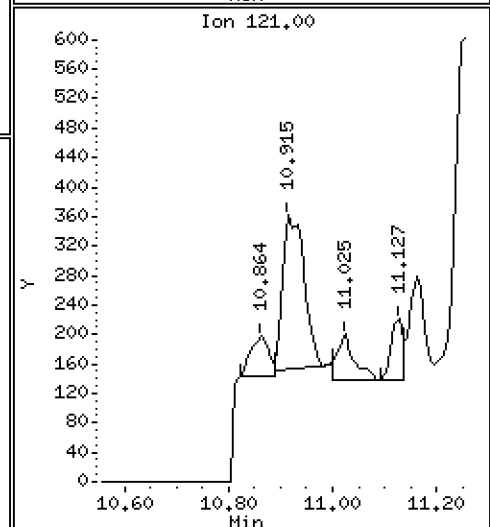
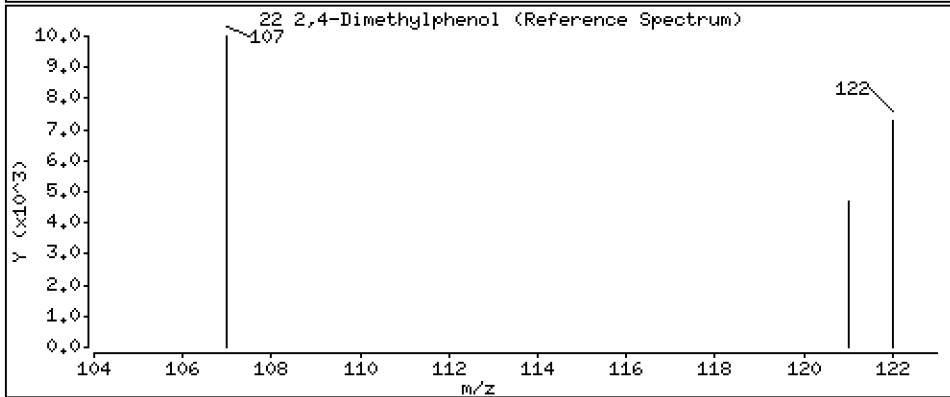
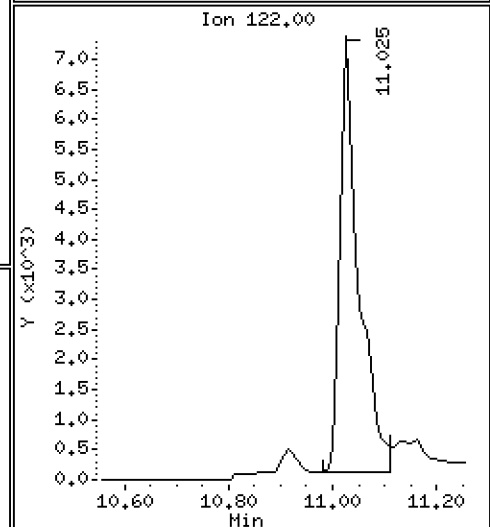
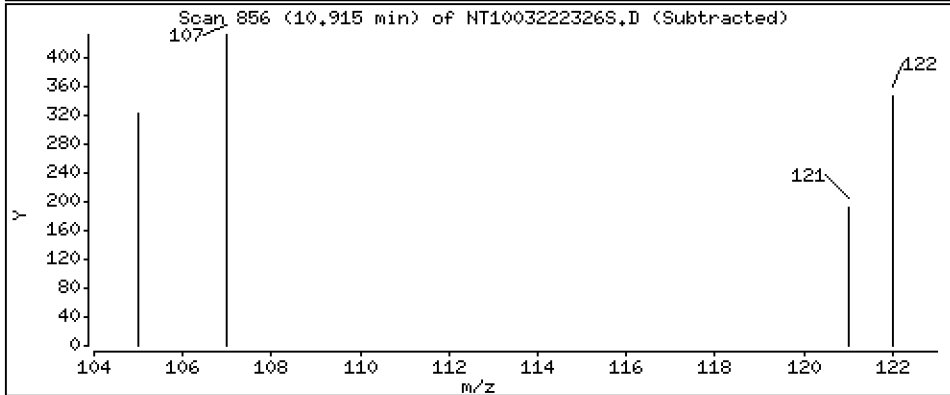
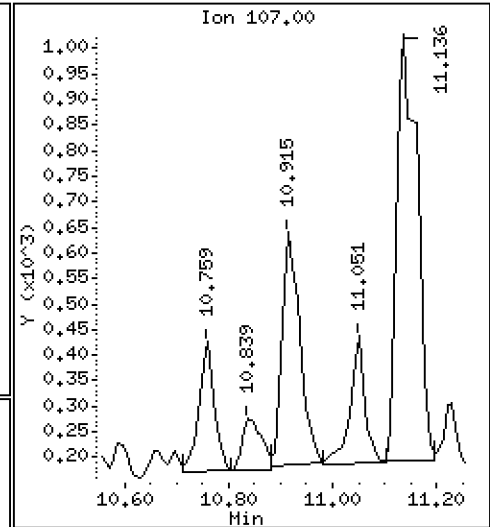
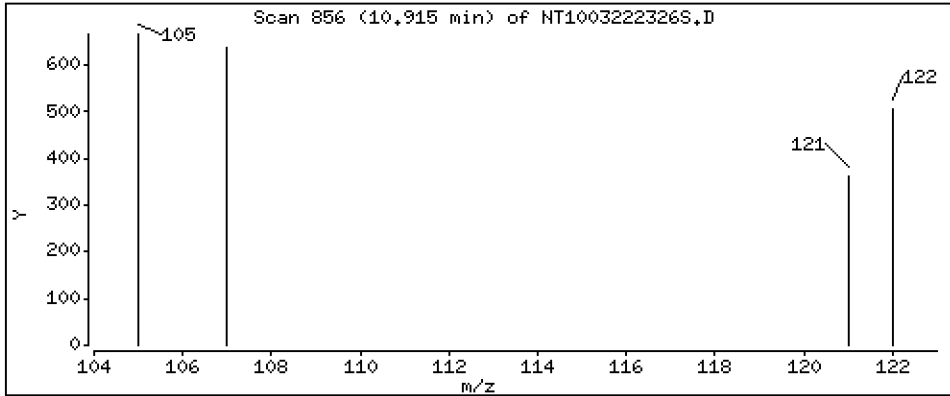
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 0.02075 ug/L



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10

Volume Injected (uL): 1.0

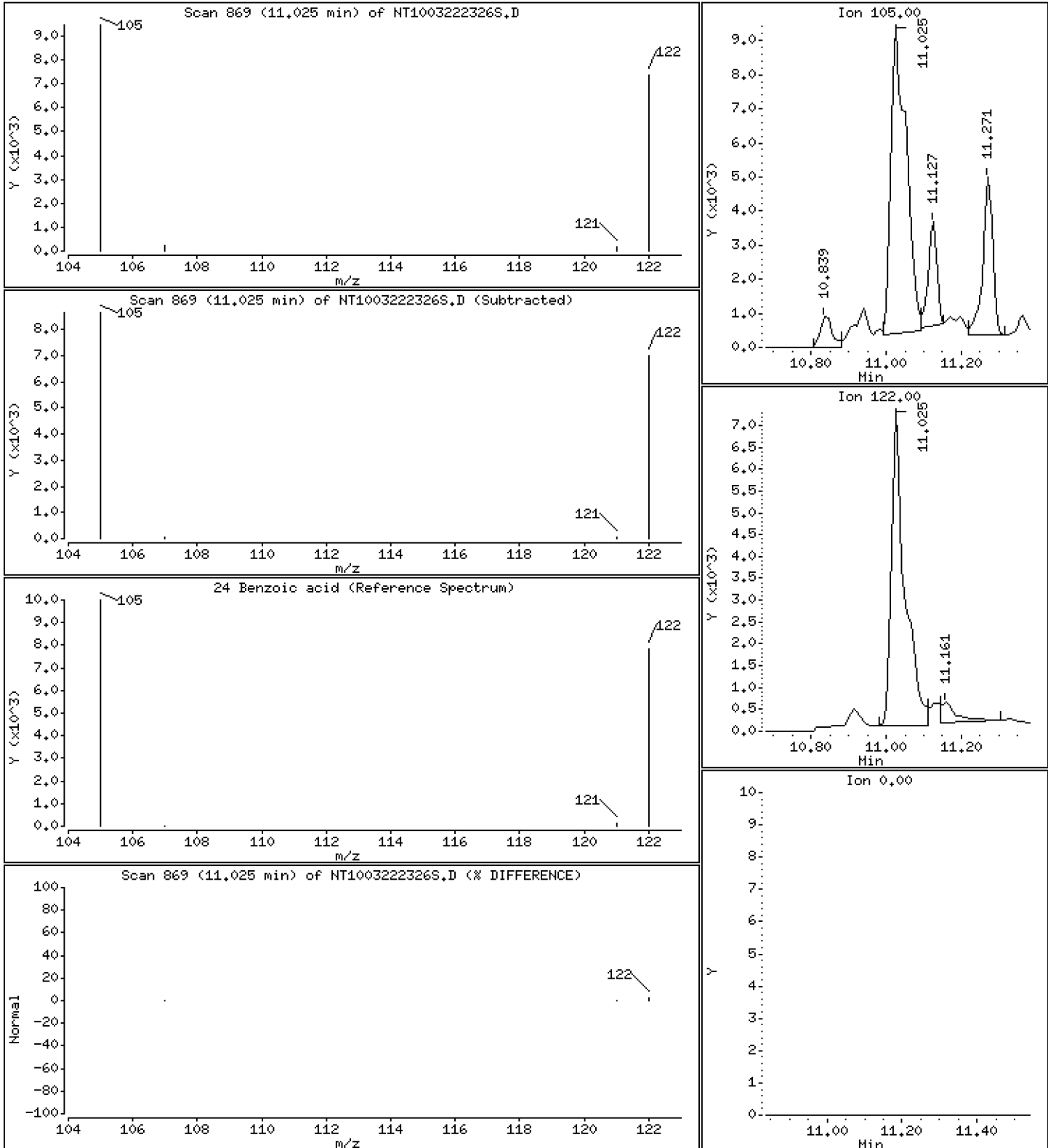
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.9128 ug/L



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10

Volume Injected (uL): 1.0

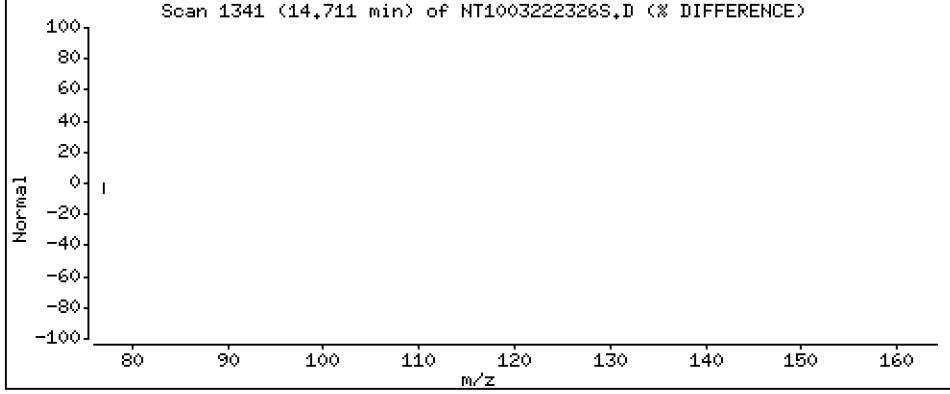
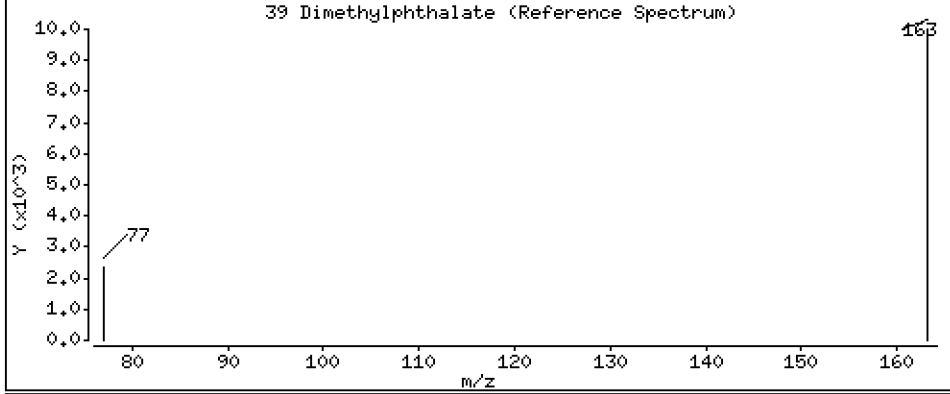
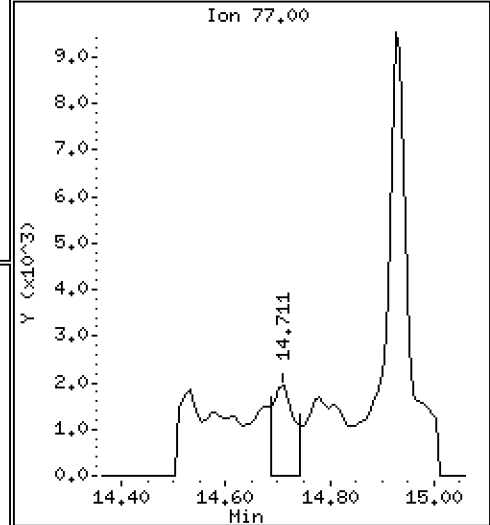
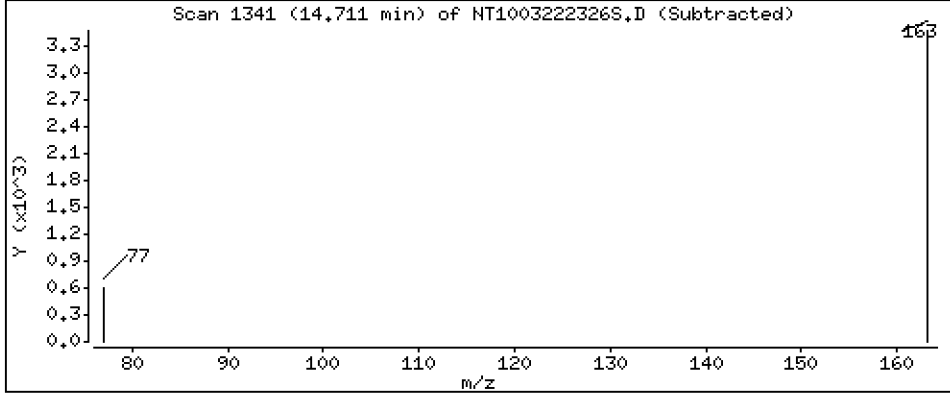
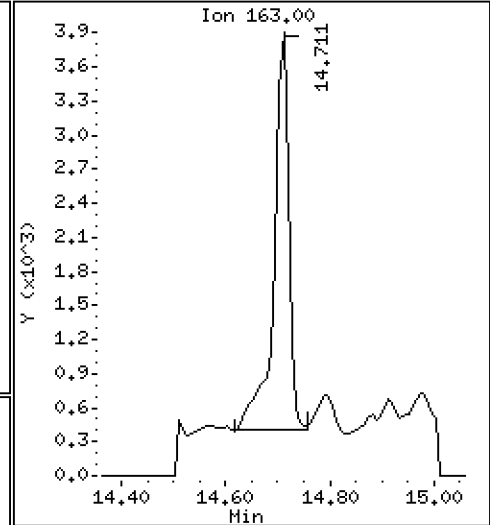
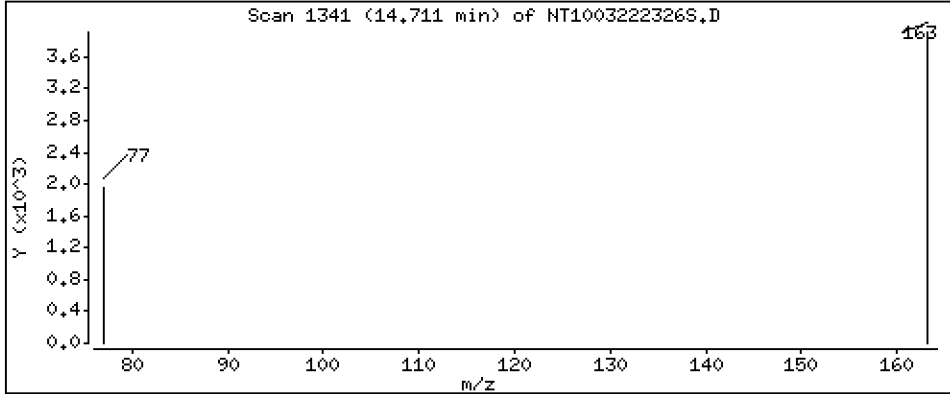
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

39 Dimethylphthalate

Concentration: 0.07144 ug/L



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10

Volume Injected (uL): 1.0

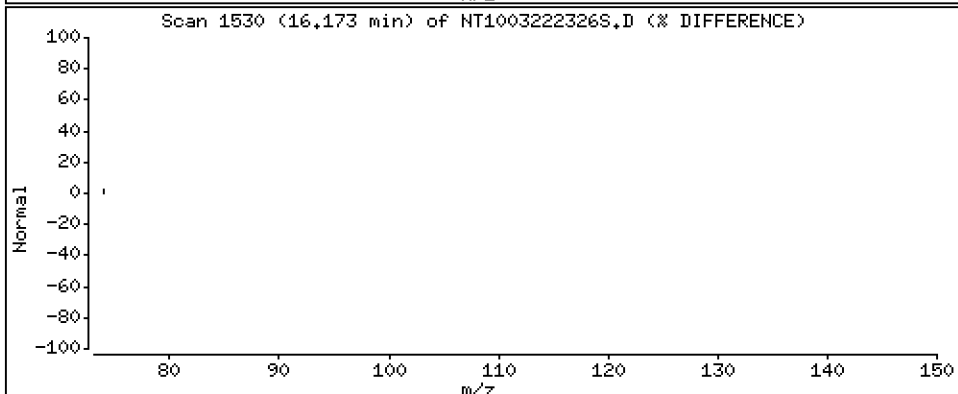
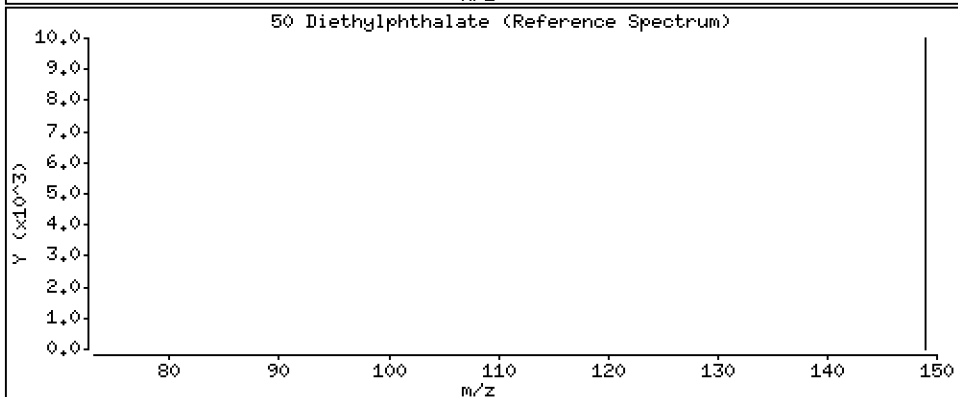
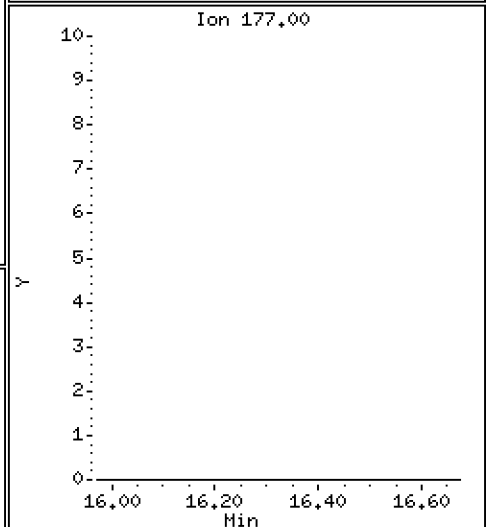
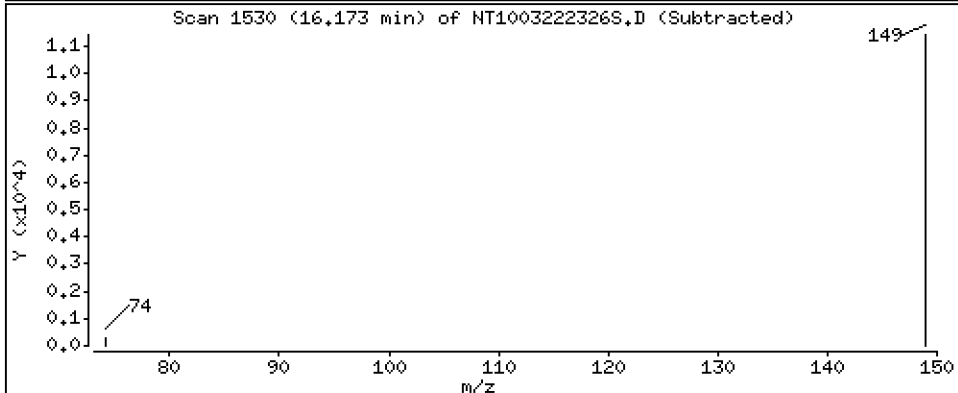
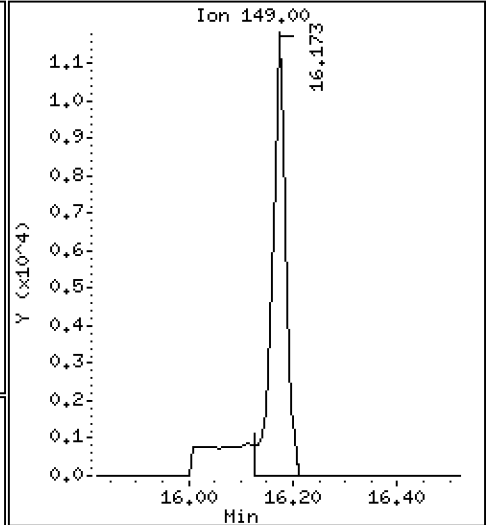
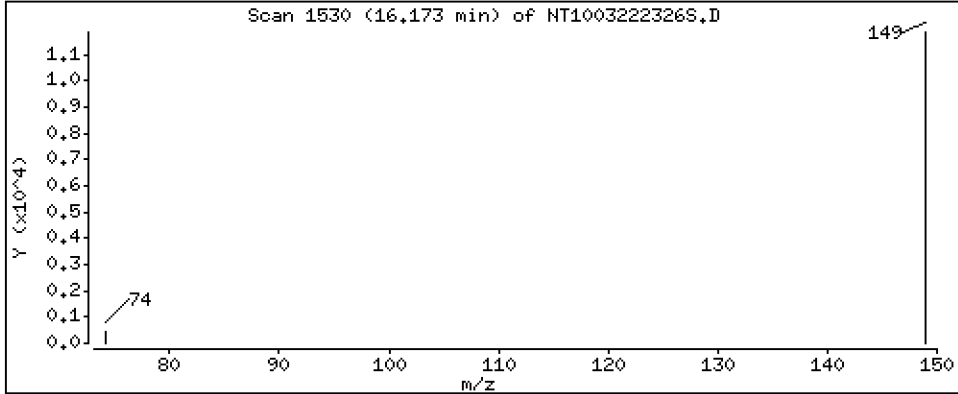
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2161 ug/L



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10

Volume Injected (uL): 1.0

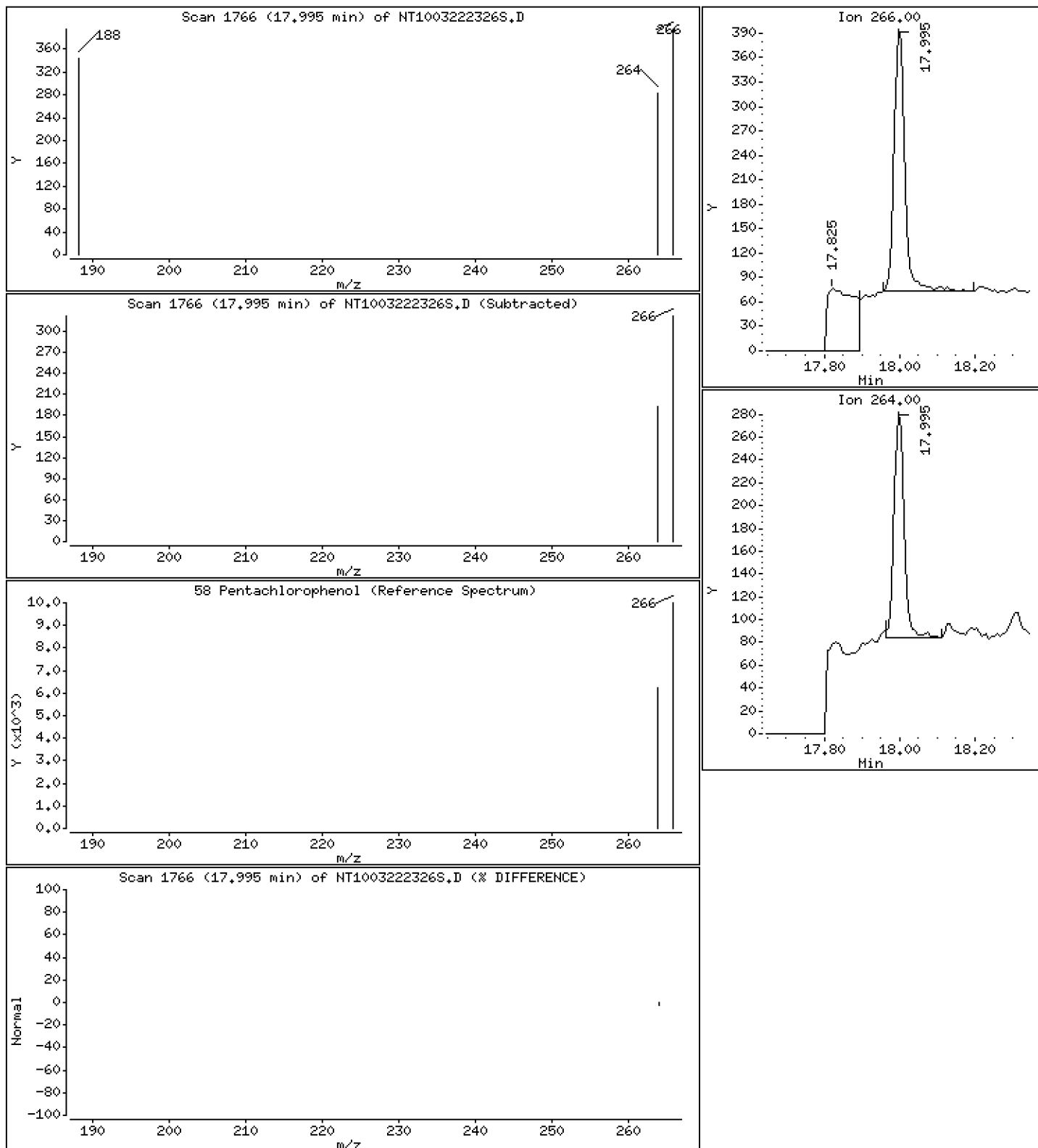
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,02885 ug/L





Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10

Volume Injected (uL): 1.0

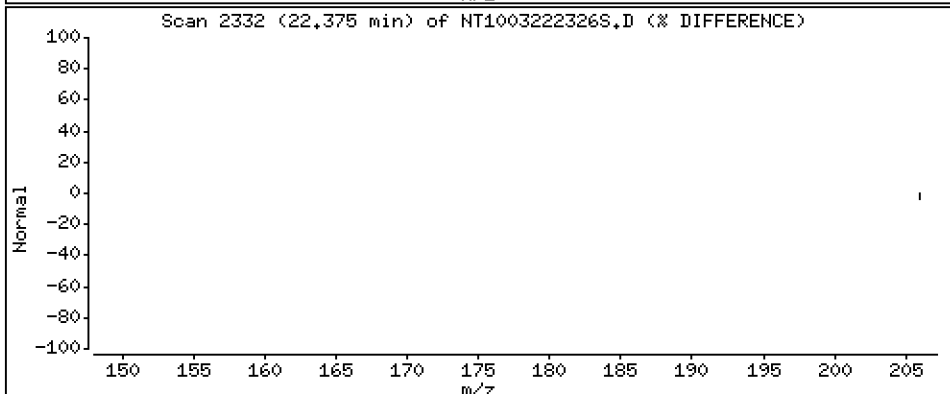
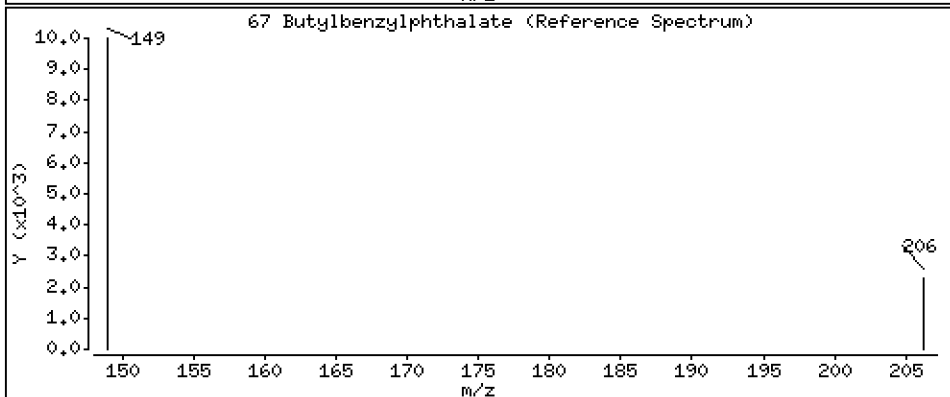
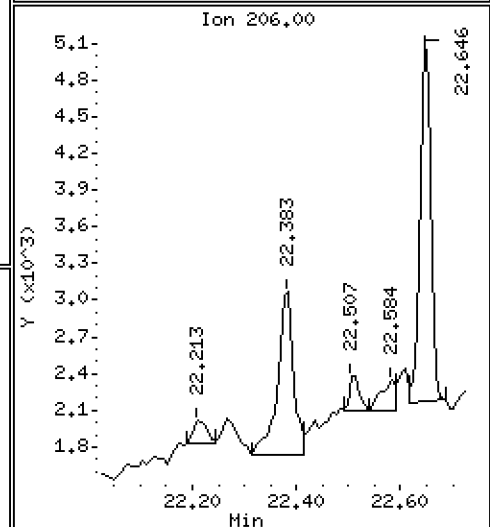
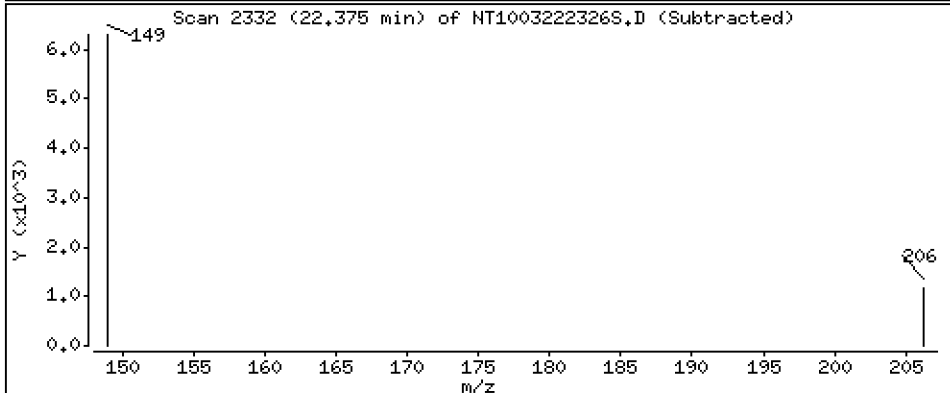
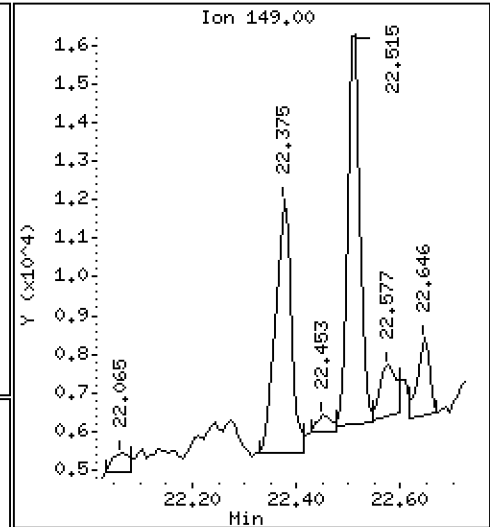
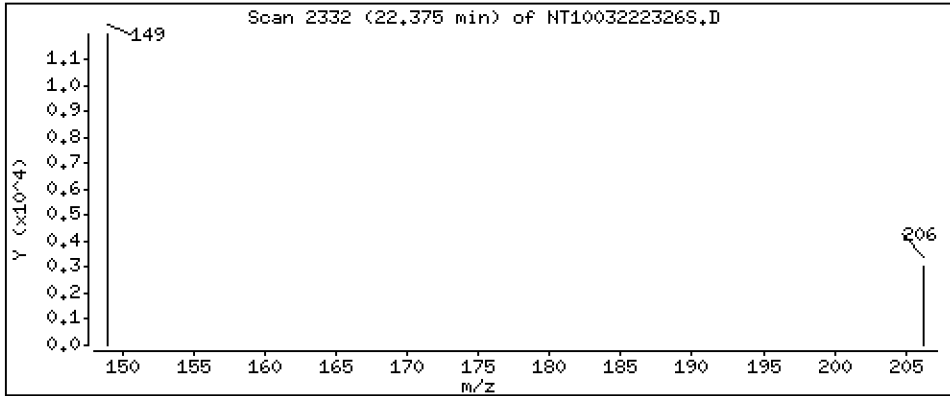
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.1666 ug/L



Date : 23-MAR-2023 08:55

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-10

Volume Injected (uL): 1.0

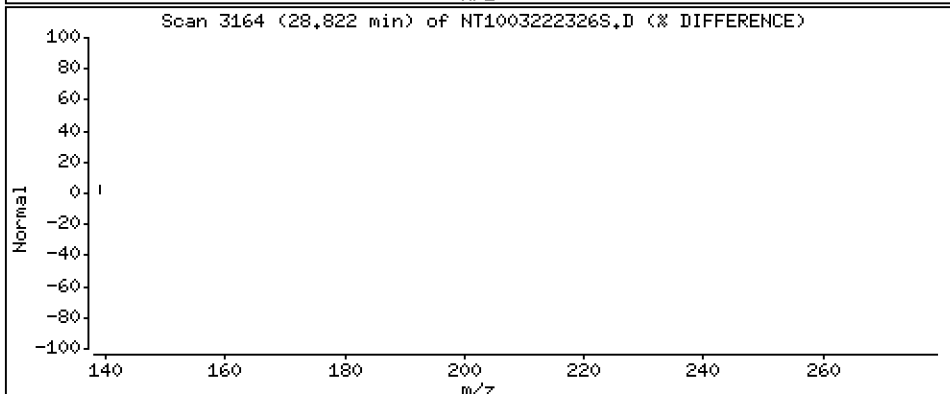
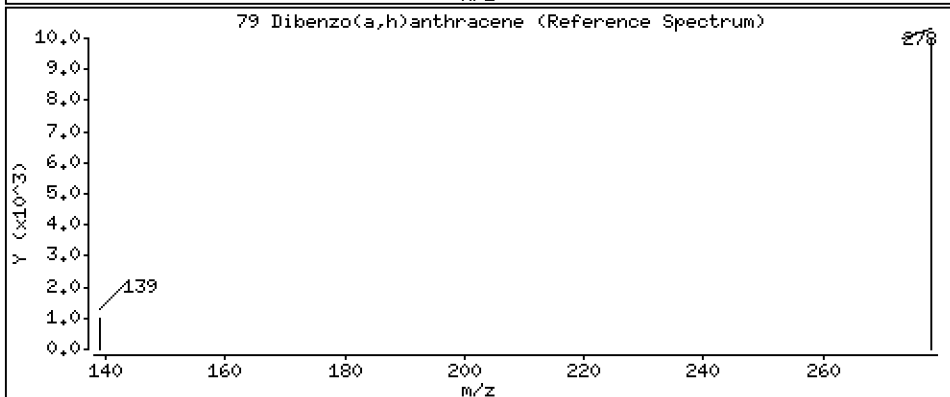
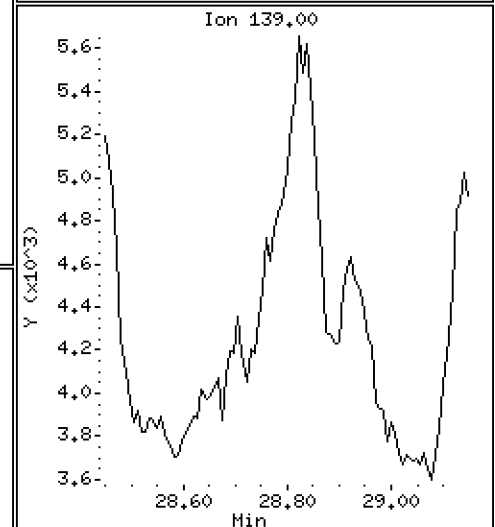
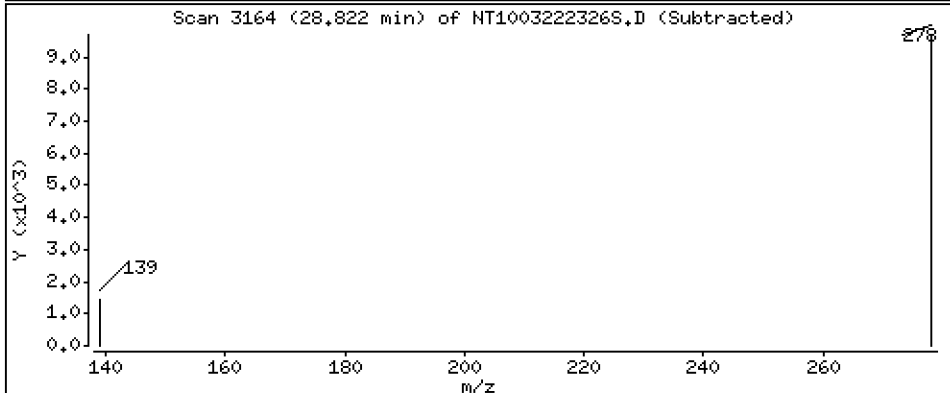
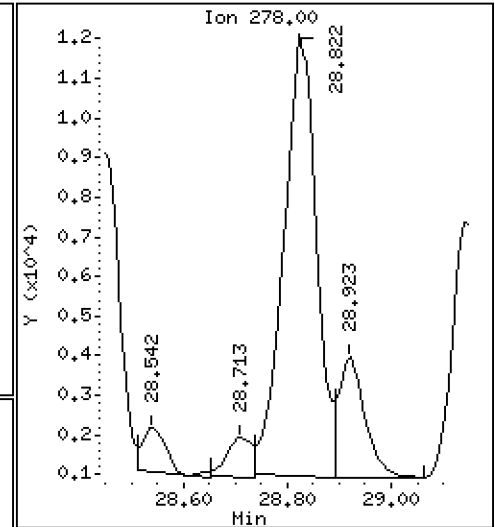
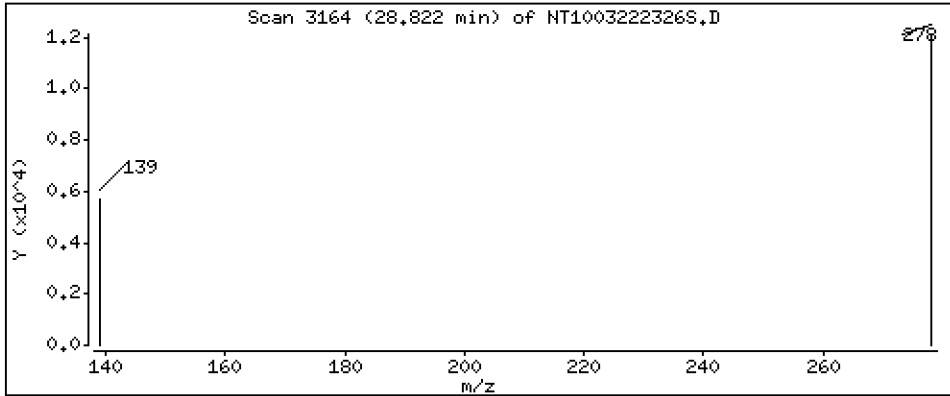
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2305 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222326S.D  
 Lab Smp Id: 23A0179-10  
 Inj Date : 23-MAR-2023 08:55 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : 23A0179-10  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Meth Date : 25-Mar-2023 16:11 yev Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 21  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: ORGDATA102

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT     | EXP RT         | REL RT | RESPONSE               | CONCENTRATIONS |             |
|-------------------------------|-------|-----|--------|----------------|--------|------------------------|----------------|-------------|
|                               |       |     |        |                |        |                        | ON-COLUMN      | FINAL       |
|                               | MASS  |     |        |                |        |                        | (ug/mL)        | ( ug/L)     |
| \$ 1 2-Fluorophenol           | 112   |     | 6.864  | 6.856 (0.755)  |        | 280714                 | 5.61727        | 5.617 (R)   |
| 3 Phenol                      | 94    |     | 8.479  | 8.471 (0.933)  |        | 354073                 | 5.16440        | 5.164       |
| 7 1,3-Dichlorobenzene         | 146   |     |        |                |        | Compound Not Detected. |                |             |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.090  | 9.090 (1.000)  |        | 164795                 | 4.00000        |             |
| 9 1,4-Dichlorobenzene         | 146   |     |        |                |        | Compound Not Detected. |                |             |
| 11 Benzyl alcohol             | 79    |     | 9.361  | 9.361 (1.030)  |        | 13156                  | 0.33099        | 0.3310 (M)  |
| 12 1,2-Dichlorobenzene        | 146   |     |        |                |        | Compound Not Detected. |                |             |
| 13 2-Methylphenol             | 108   |     |        |                |        | Compound Not Detected. |                |             |
| 15 4-Methylphenol             | 108   |     | 9.866  | 9.858 (1.085)  |        | 197184                 | 3.99445        | 3.994       |
| 16 N-Nitroso-di-n-propylamine | 70    |     |        |                |        | Compound Not Detected. |                |             |
| 22 2,4-Dimethylphenol         | 107   |     | 10.914 | 10.906 (0.943) |        | 1074                   | 0.02075        | 0.02075     |
| 24 Benzoic acid               | 105   |     | 11.025 | 11.033 (0.952) |        | 25908                  | 0.91277        | 0.9128      |
| 26 1,2,4-Trichlorobenzene     | 180   |     |        |                |        | Compound Not Detected. |                |             |
| * 27 Naphthalene-d8           | 136   |     | 11.577 | 11.577 (1.000) |        | 598663                 | 4.00000        |             |
| 30 Hexachlorobutadiene        | 225   |     |        |                |        | Compound Not Detected. |                |             |
| 39 Dimethylphthalate          | 163   |     | 14.711 | 14.711 (0.968) |        | 6640                   | 0.07144        | 0.07144 (M) |
| * 42 Acenaphthene-d10         | 162   |     | 15.198 | 15.206 (1.000) |        | 294535                 | 4.00000        |             |
| 50 Diethylphthalate           | 149   |     | 16.172 | 16.172 (1.064) |        | 20806                  | 0.21608        | 0.2161      |
| 54 N-Nitrosodiphenylamine     | 169   |     |        |                |        | Compound Not Detected. |                |             |
| 57 Hexachlorobenzene          | 284   |     |        |                |        | Compound Not Detected. |                |             |

| Compounds                 | QUANT SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|
|                           |           |                        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>( ug/L) |
| 58 Pentachlorophenol      | 266       | 17.995                 | 17.995 | (0.986) | 612      | 0.02885              | 0.02885          |
| * 59 Phenanthrene-d10     | 188       | 18.258                 | 18.258 | (1.000) | 639886   | 4.00000              |                  |
| \$ 66 Terphenyl-d14       | 244       | 21.438                 | 21.438 | (0.918) | 478477   | 4.84269              | 4.843(R)         |
| 67 Butylbenzylphthalate   | 149       | 22.375                 | 22.375 | (0.958) | 13302    | 0.16664              | 0.1666           |
| * 69 Chrysene-d12         | 240       | 23.358                 | 23.350 | (1.000) | 606398   | 4.00000              |                  |
| * 77 Perylene-d12         | 264       | 26.060                 | 26.037 | (1.000) | 664262   | 4.00000              |                  |
| 79 Dibenzo(a,h)anthracene | 278       | 28.821                 | 28.798 | (1.106) | 50216    | 0.23054              | 0.2305           |
| 90 N-Nitrosodimethylamine | 74        | Compound Not Detected. |        |         |          |                      |                  |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT1003222326S.D  
 Lab Smp Id: 23A0179-10  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Misc Info:

Calibration Date: 23-MAR-2023  
 Calibration Time: 03:52  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 140507   | 70254      | 281014  | 164795 | 17.29 |
| 27 Naphthalene-d8   | 499190   | 249595     | 998380  | 598663 | 19.93 |
| 42 Acenaphthene-d10 | 250303   | 125152     | 500606  | 294535 | 17.67 |
| 59 Phenanthrene-d10 | 496896   | 248448     | 993792  | 639886 | 28.78 |
| 69 Chrysene-d12     | 465837   | 232919     | 931674  | 606398 | 30.17 |
| 77 Perylene-d12     | 551078   | 275539     | 1102156 | 664262 | 20.54 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.09     | 8.59     | 9.59  | 9.09   | 0.00  |
| 27 Naphthalene-d8   | 11.58    | 11.08    | 12.08 | 11.58  | 0.00  |
| 42 Acenaphthene-d10 | 15.21    | 14.71    | 15.71 | 15.20  | -0.05 |
| 59 Phenanthrene-d10 | 18.26    | 17.76    | 18.76 | 18.26  | 0.00  |
| 69 Chrysene-d12     | 23.35    | 22.85    | 23.85 | 23.36  | 0.03  |
| 77 Perylene-d12     | 26.04    | 25.54    | 26.54 | 26.06  | 0.09  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222326S.D

Lab ID: 23A0179-10

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 23-MAR-2023 08:55

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

---

NONE

RRT check based on Ccal File: SIM.b/NT1003222318S.D

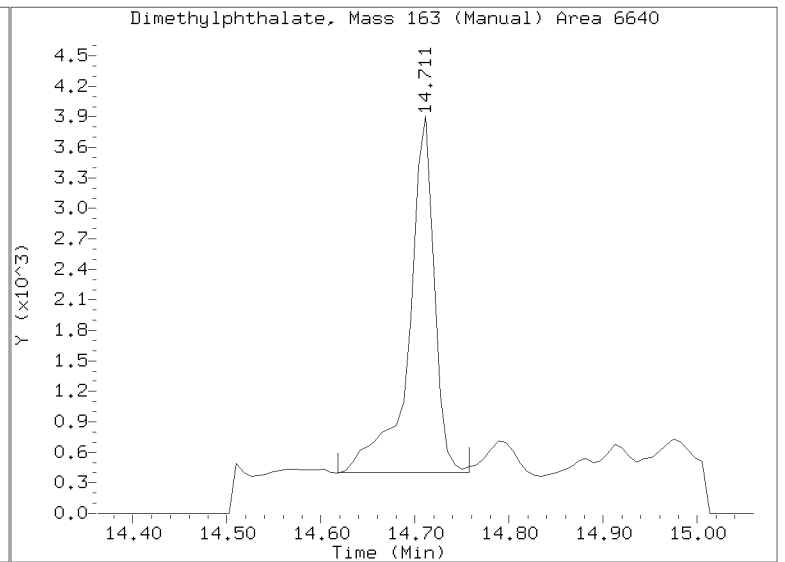
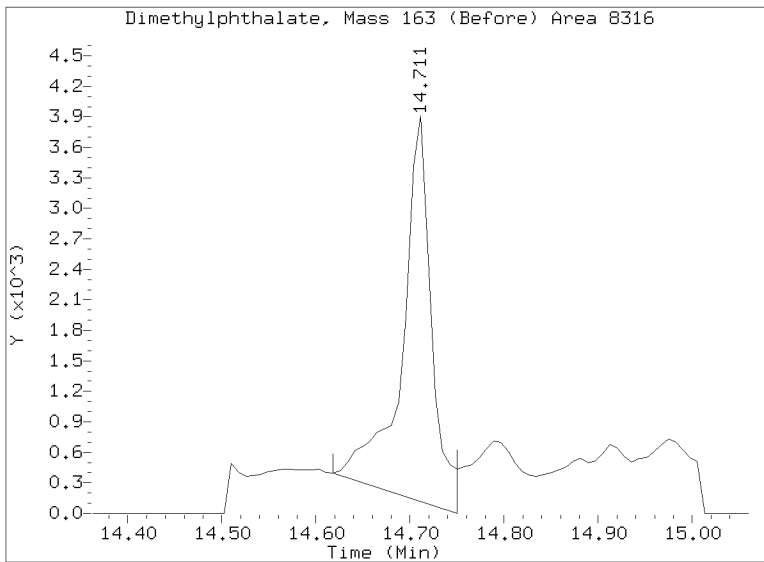
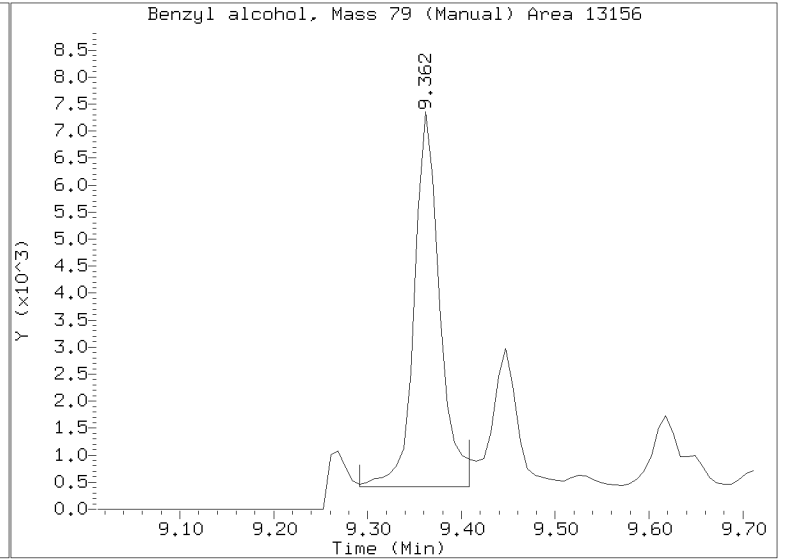
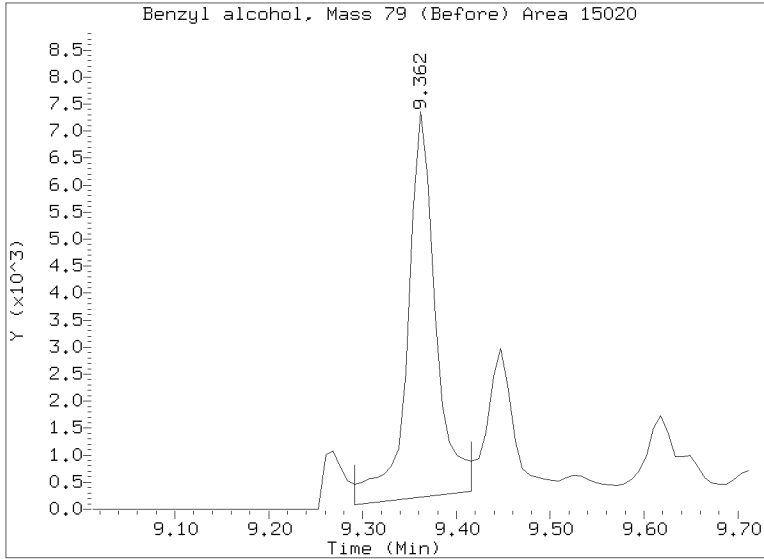
On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222326S.D  
Injection Date: 23-MAR-2023 08:55  
Lab ID:23A0179-10 Client ID:  
Report Date: 03/25/2023 16:12





Form I  
ORGANIC ANALYSIS DATA SHEET  
EPA 8270E-SIM  
SIM SVOC Organics (Dual scan list)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-11RE1 A

SDG: 23A0179

Sampled: 01/10/23 11:56

Prepared: 03/17/23 14:20

File ID: NT1003222327S.D

% Solids: 49.64

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 09:33

Batch: BLC0442

Sequence: SLC0407

Initial/Final: 20.83 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00049

Cleanups: GPC

| CAS NO.  | COMPOUND               | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|------------------------|----------|----------------------|---|------|------|
| 106-46-7 | 1,4-Dichlorobenzene    | 1        | 1.4                  | J | 0.6  | 4.8  |
| 95-50-1  | 1,2-Dichlorobenzene    | 1        | 4.8                  | U | 0.7  | 4.8  |
| 100-51-6 | Benzyl Alcohol         | 1        | 38.1                 |   | 2.4  | 19.3 |
| 65-85-0  | Benzoic acid           | 1        | 68.8                 | J | 13.0 | 96.7 |
| 105-67-9 | 2,4-Dimethylphenol     | 1        | 19.3                 | U | 2.1  | 19.3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1        | 4.8                  | U | 2.6  | 4.8  |
| 86-30-6  | N-Nitrosodiphenylamine | 1        | 4.8                  | U | 1.3  | 4.8  |
| 87-86-5  | Pentachlorophenol      | 1        | 3.5                  | J | 2.1  | 19.3 |

| SURROGATES      | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|-----------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol  | 725.34                | 547                   | 75.4  | 27 - 120  |   |
| p-Terphenyl-d14 | 483.56                | 514                   | 106   | 37 - 120  |   |



Data File: \\target\share\chem3\nt10.1\20230322.16\SIM.B\NT1003222327S.D

Date: 23-MAR-2023 09:33

Client ID:

Sample Info: 23A0179-11

Volume Injected (uL): 1.0

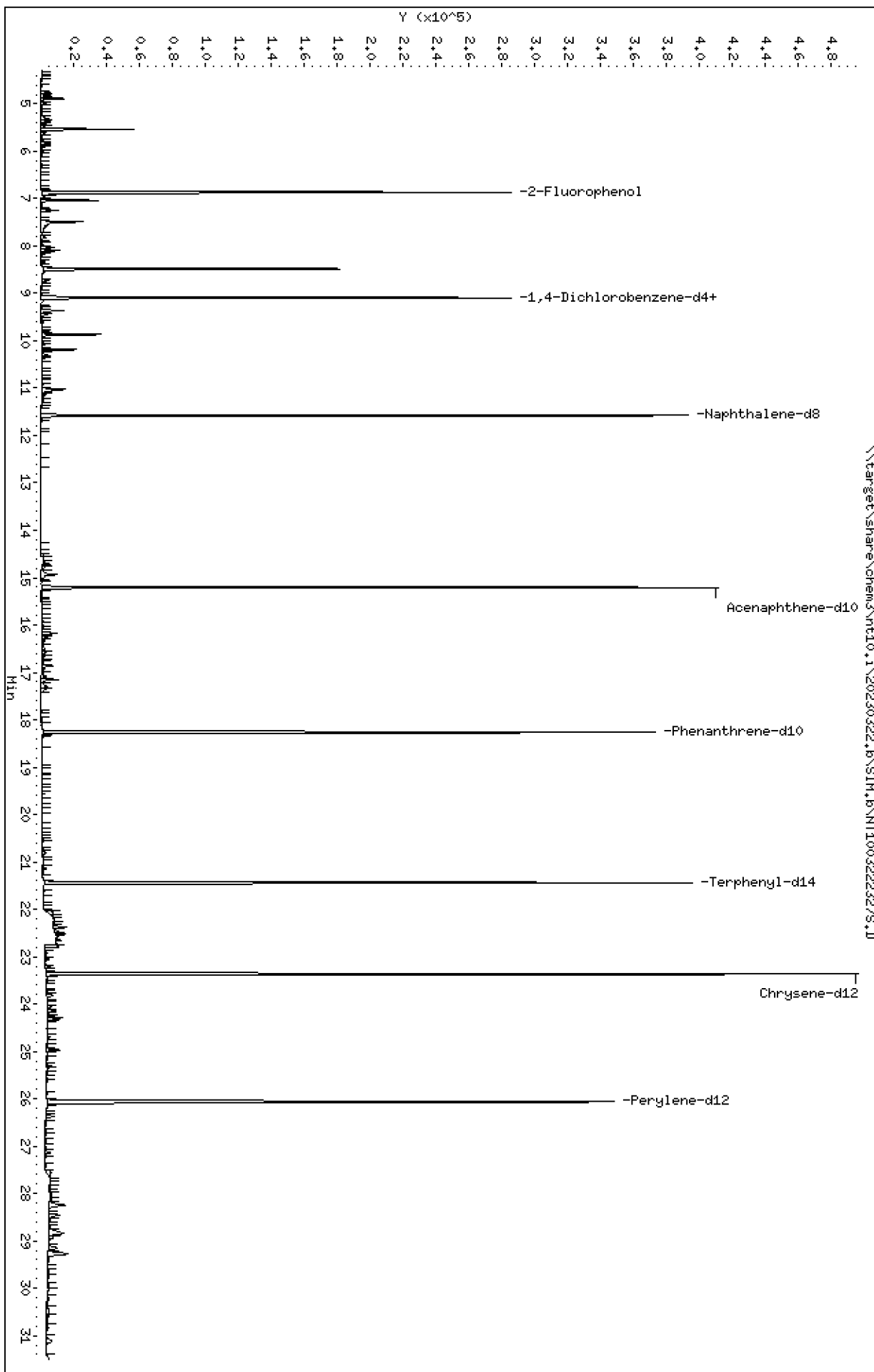
Column phase: ZB-5msi

Instrument: nt10.1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11

Volume Injected (uL): 1.0

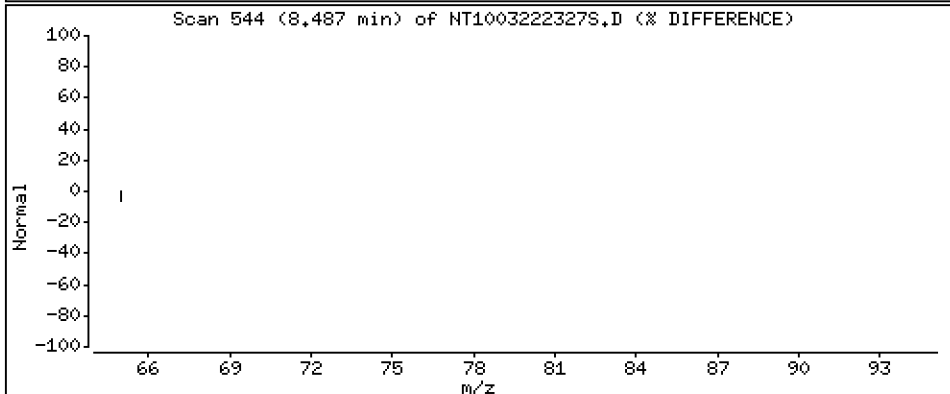
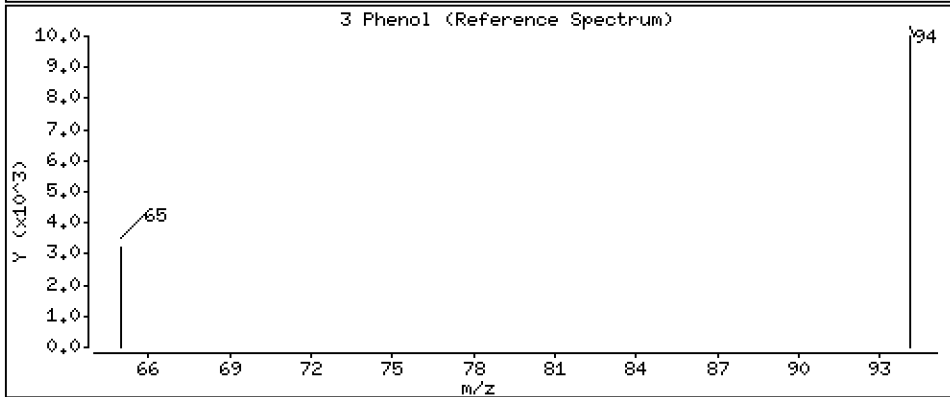
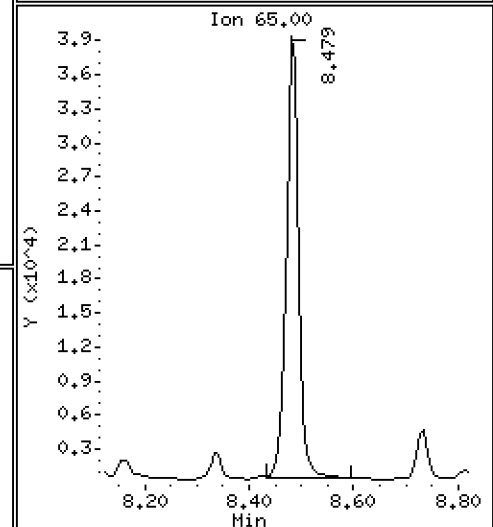
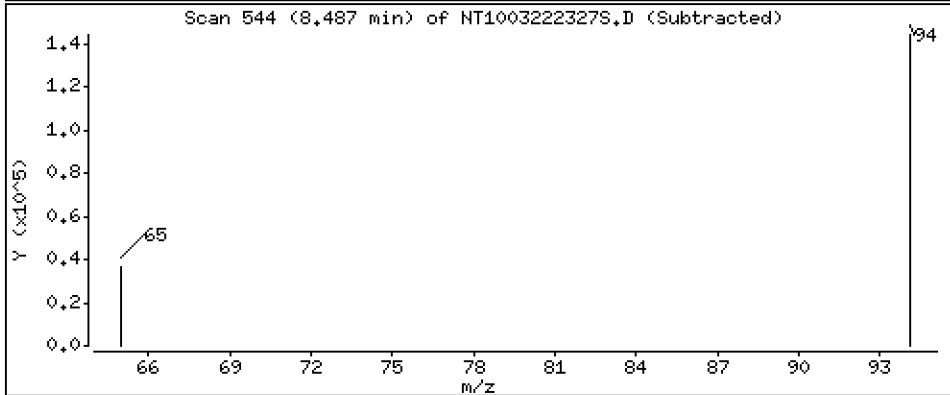
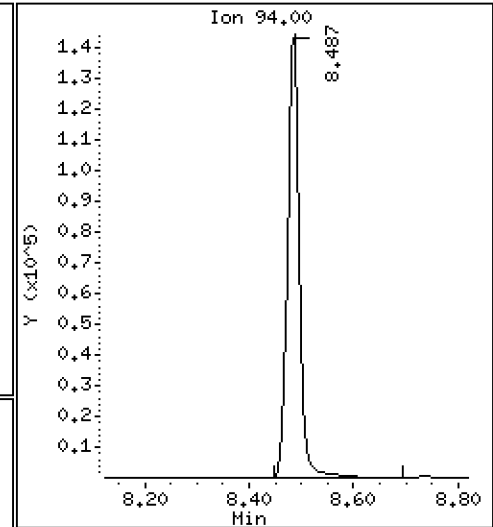
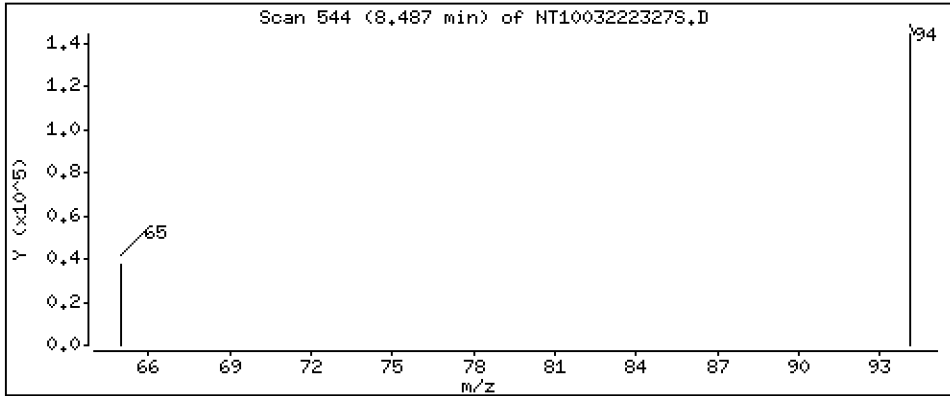
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 3,107 ug/L



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11

Volume Injected (uL): 1.0

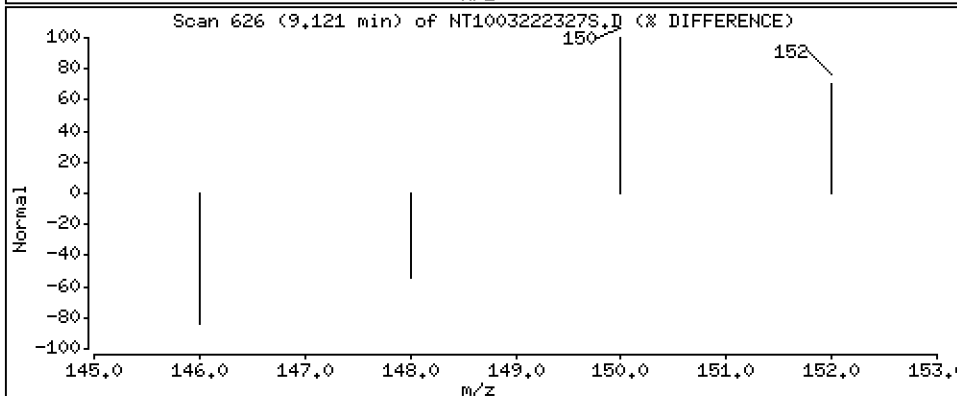
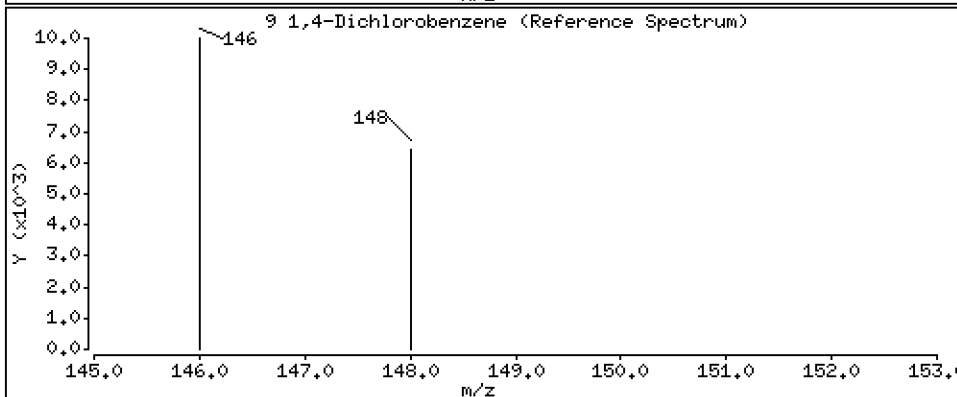
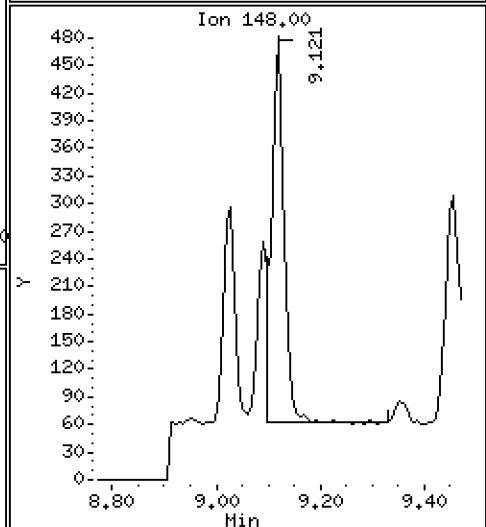
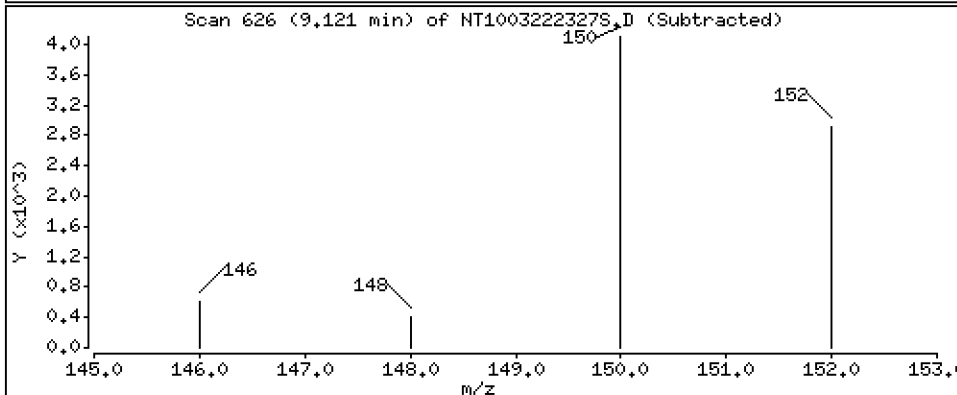
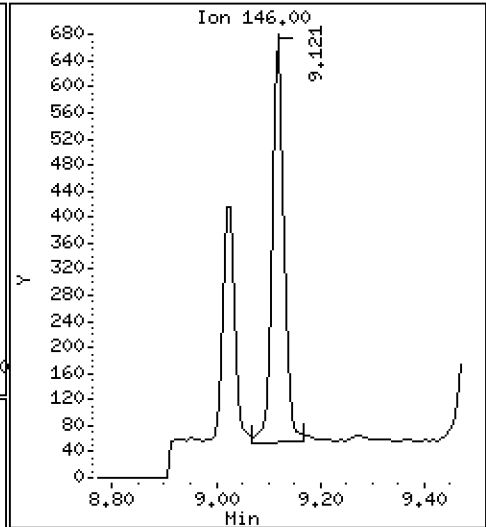
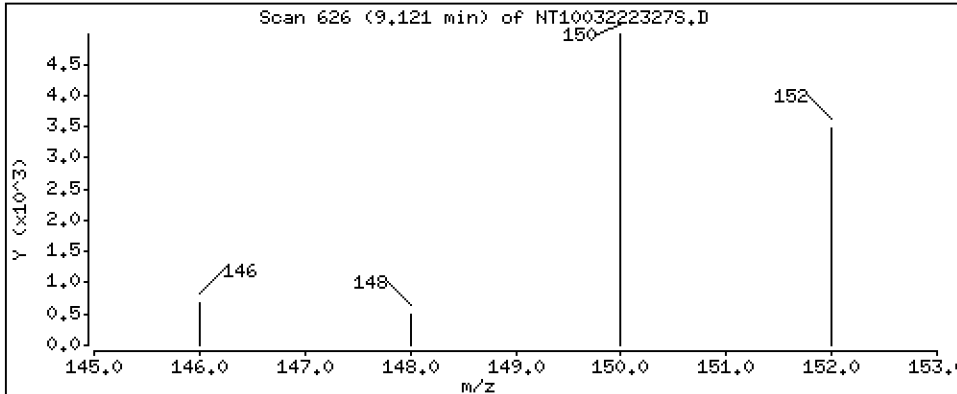
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,01461 ug/L



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11

Volume Injected (uL): 1.0

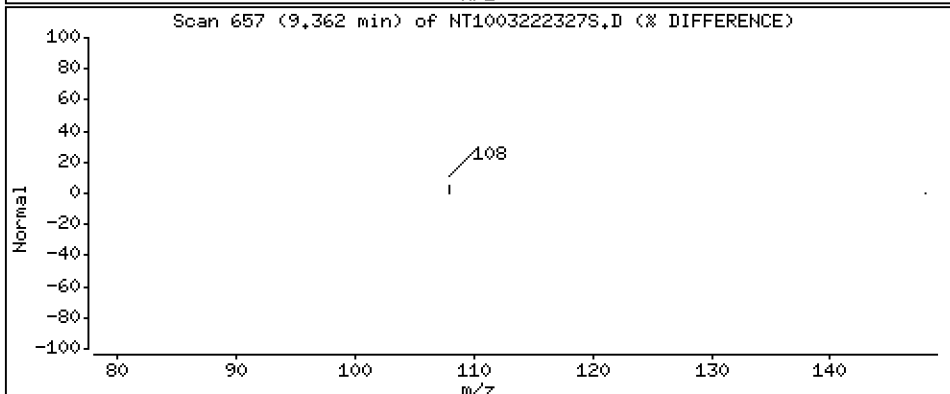
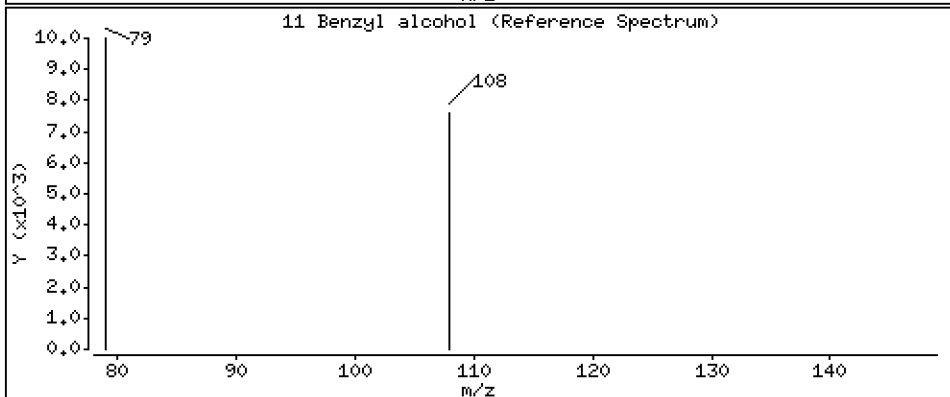
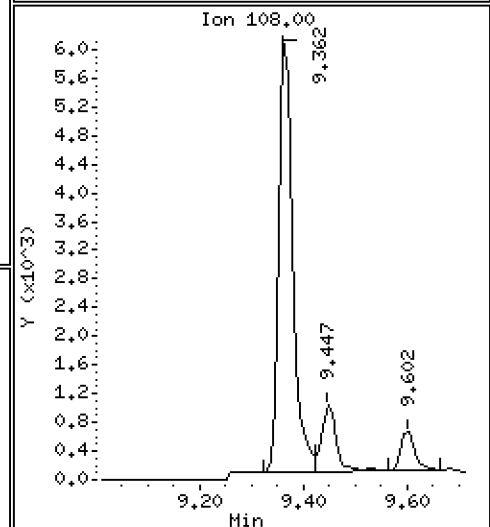
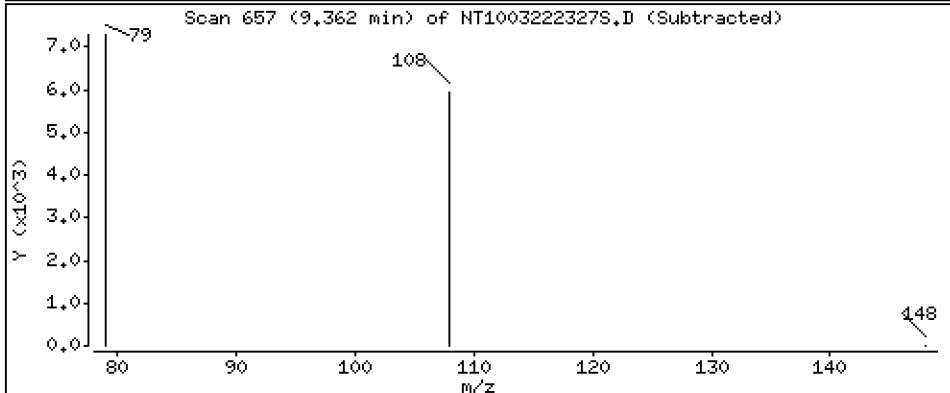
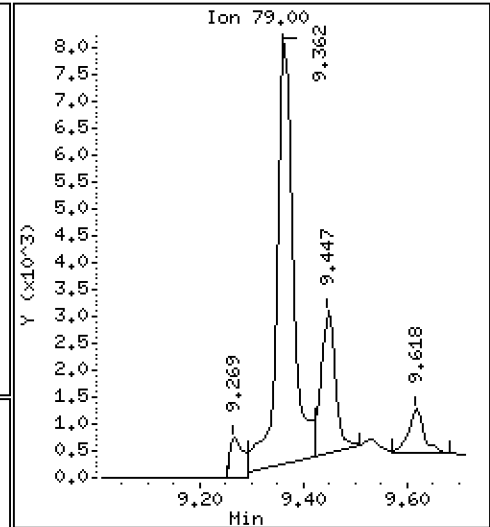
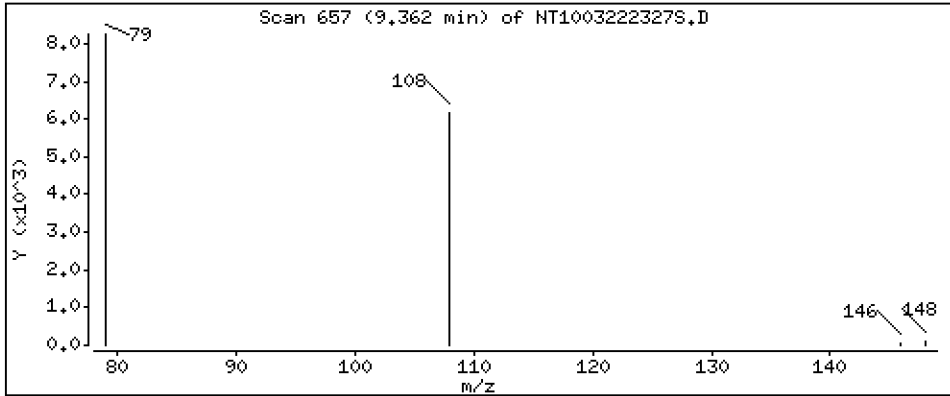
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.3944 ug/L



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11

Volume Injected (uL): 1.0

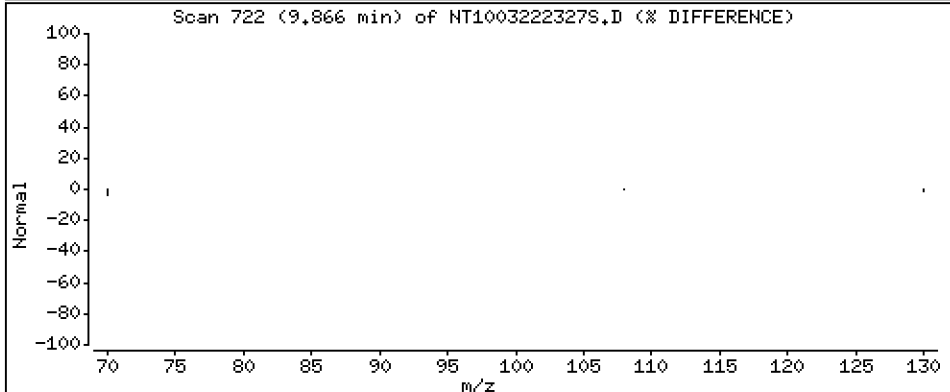
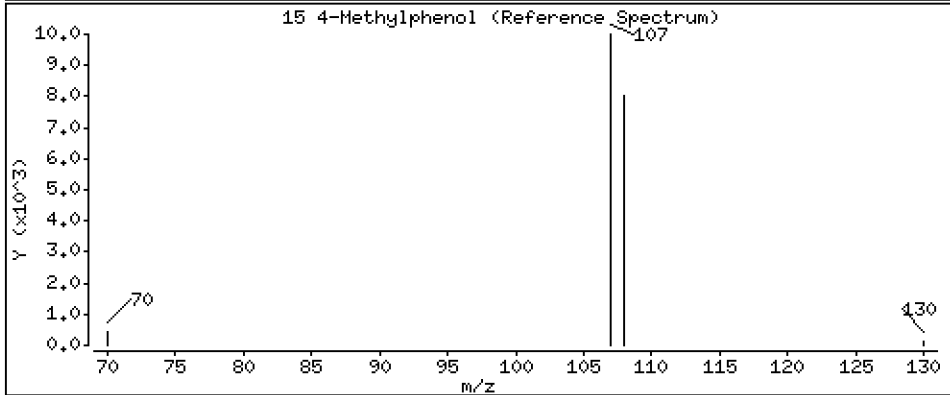
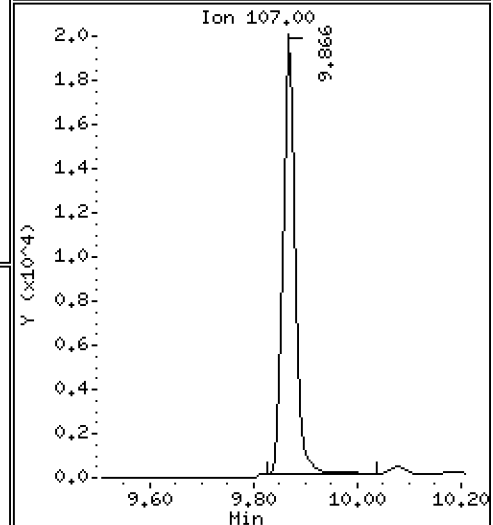
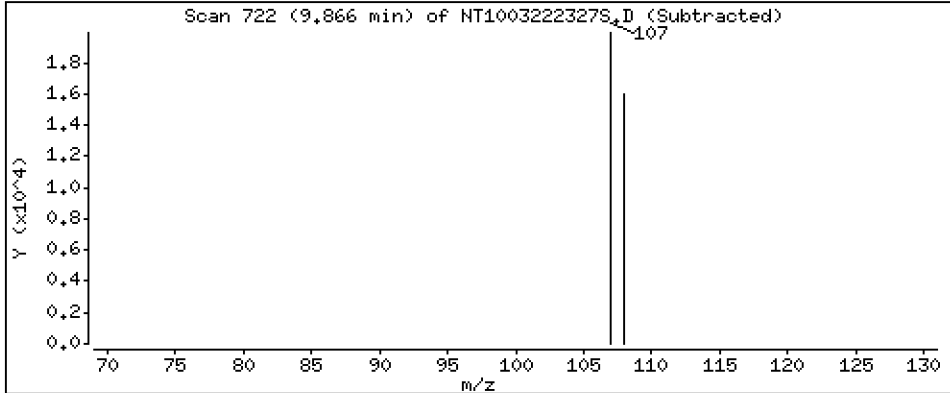
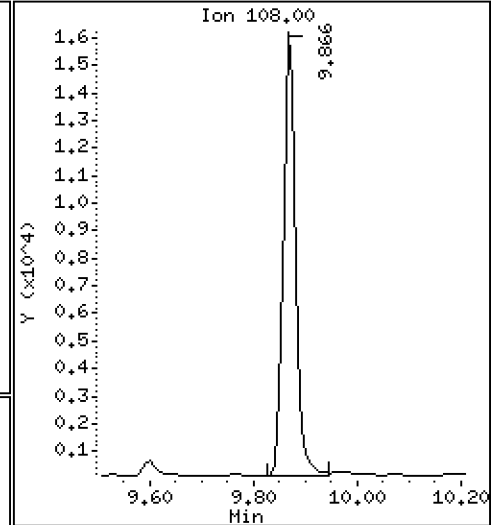
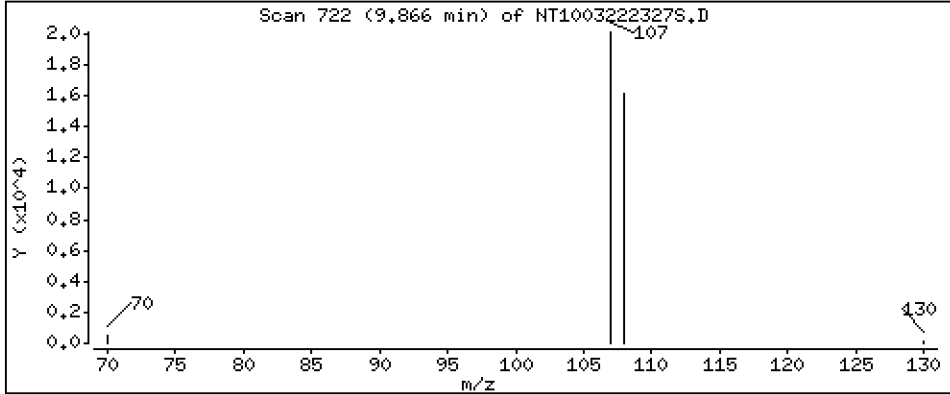
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.4962 ug/L



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11

Volume Injected (uL): 1.0

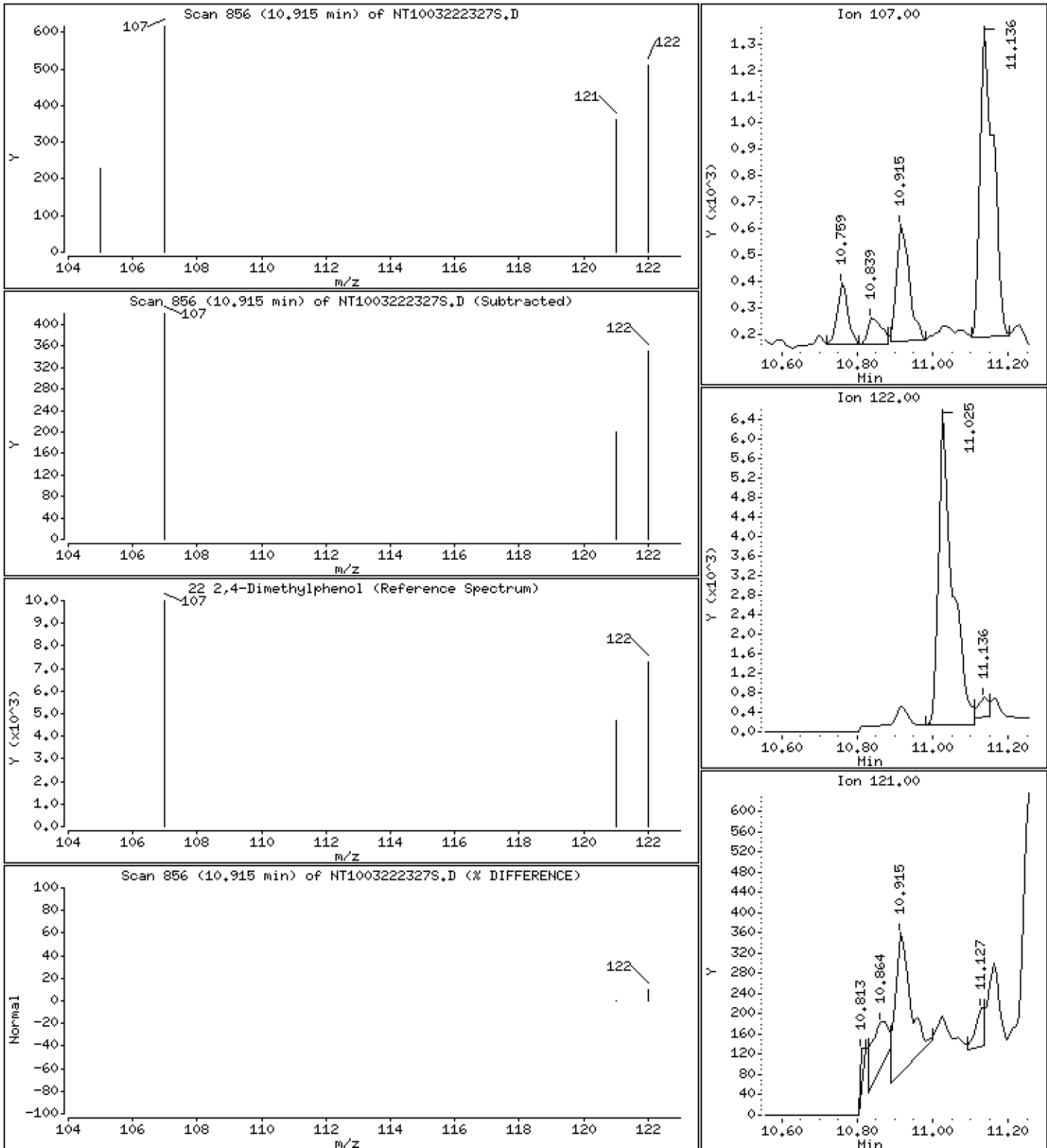
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 0.01888 ug/L



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11

Volume Injected (uL): 1.0

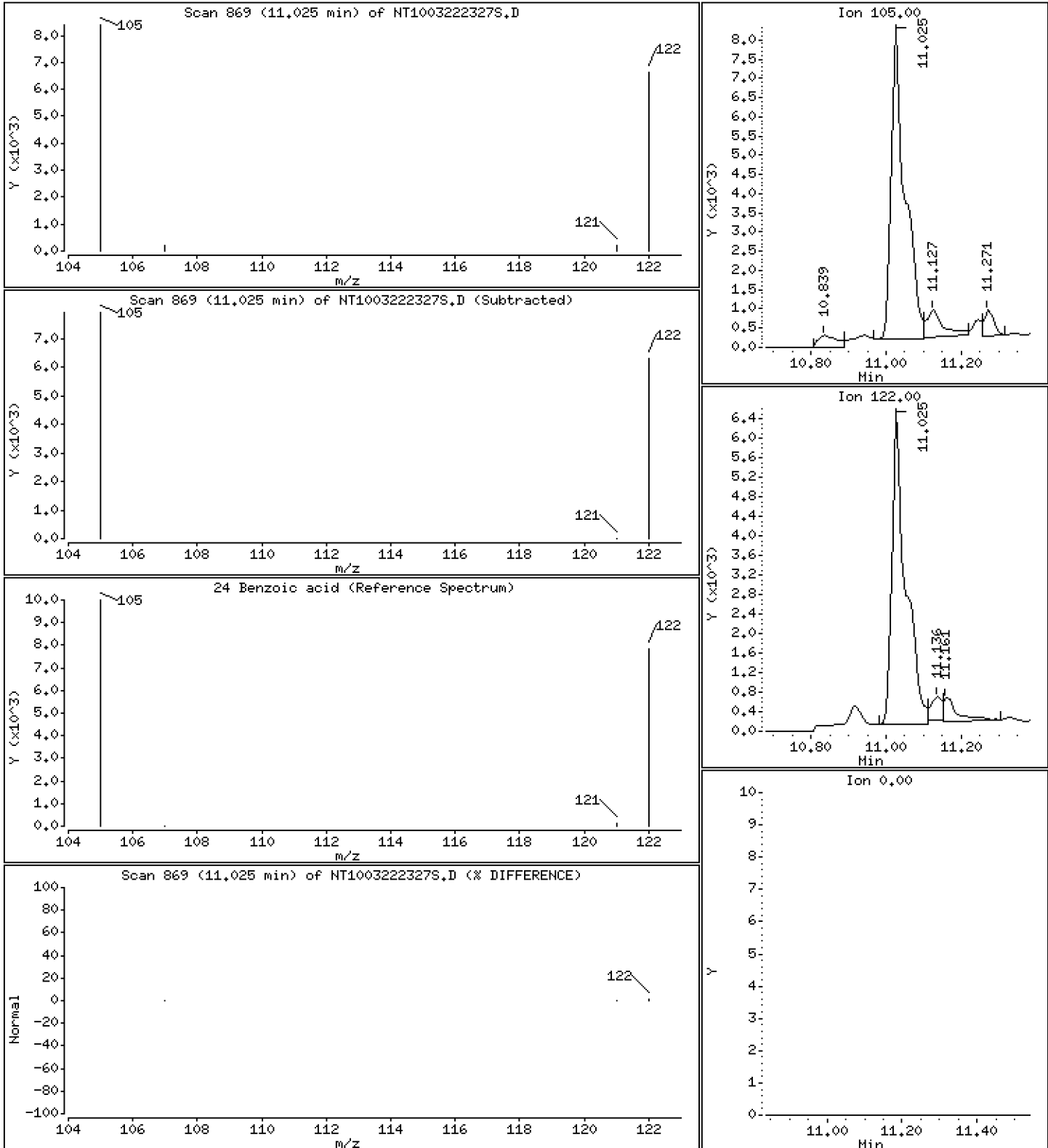
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.7109 ug/L



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11

Volume Injected (uL): 1.0

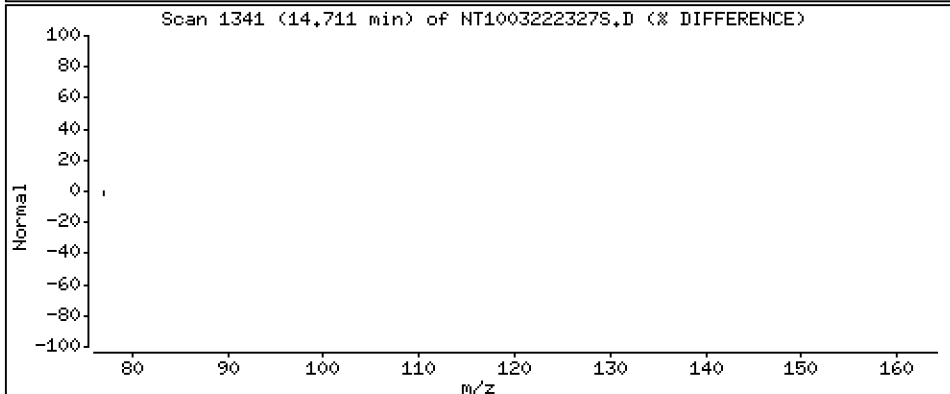
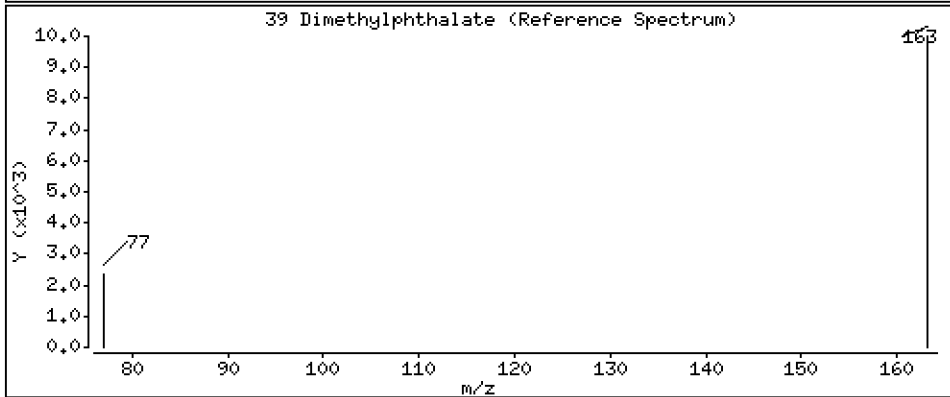
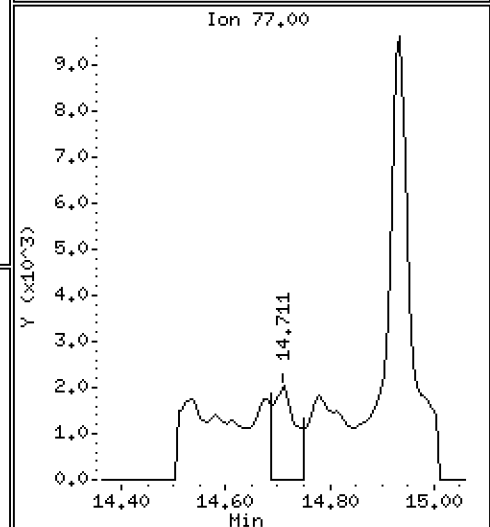
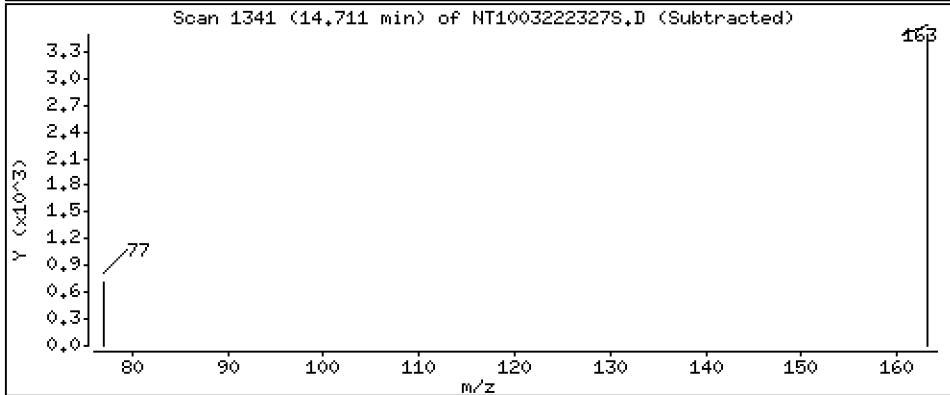
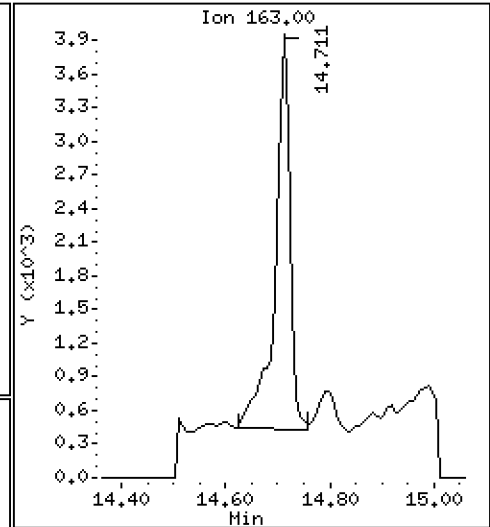
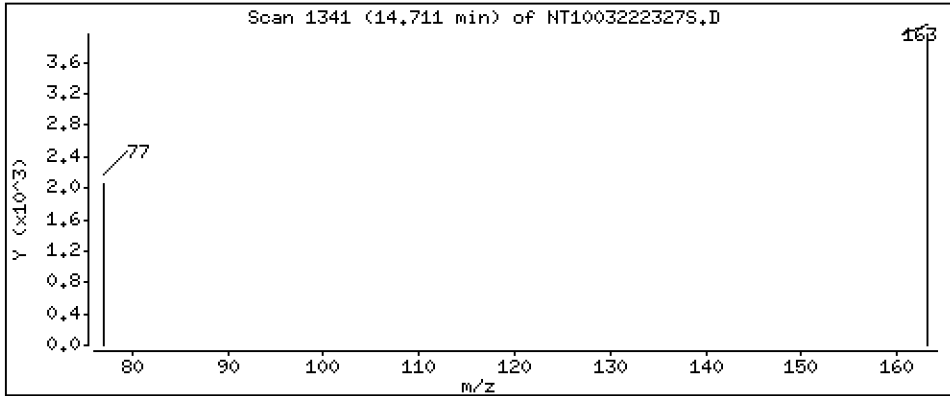
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,06877 ug/L





Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11

Volume Injected (uL): 1.0

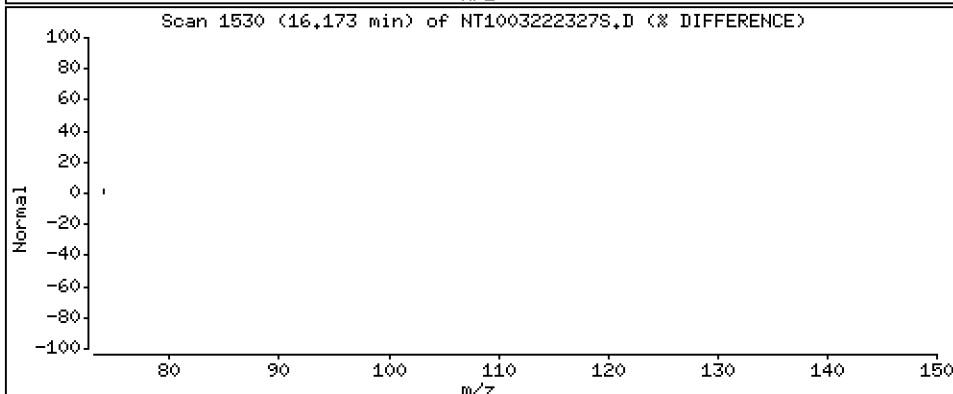
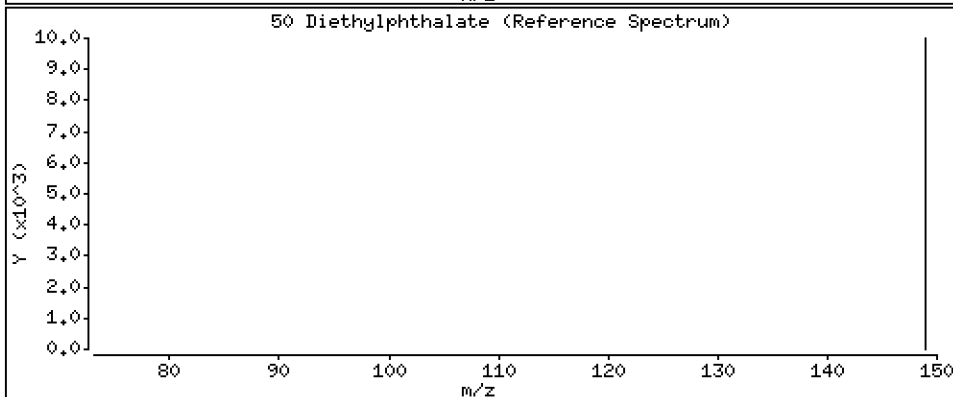
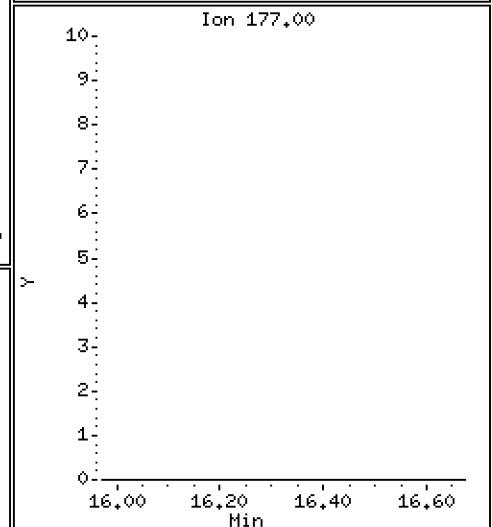
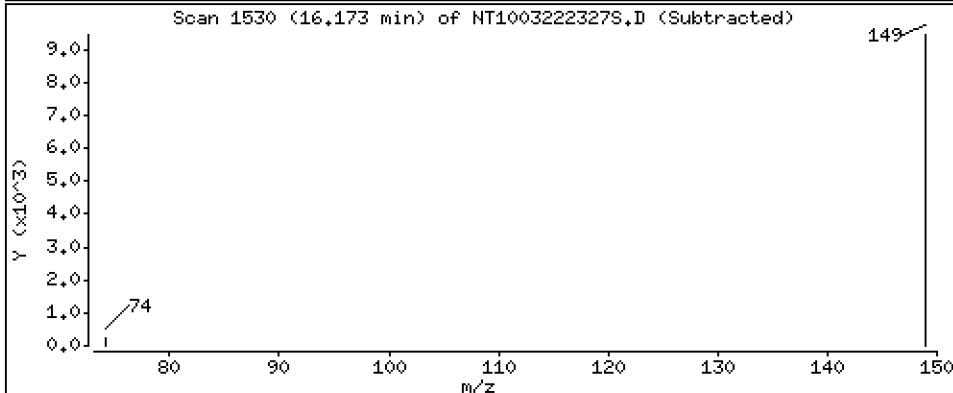
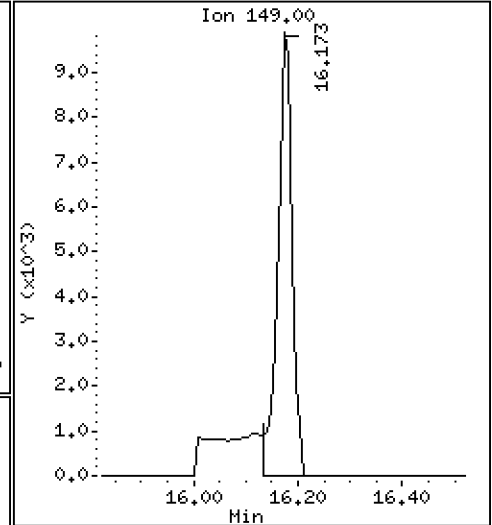
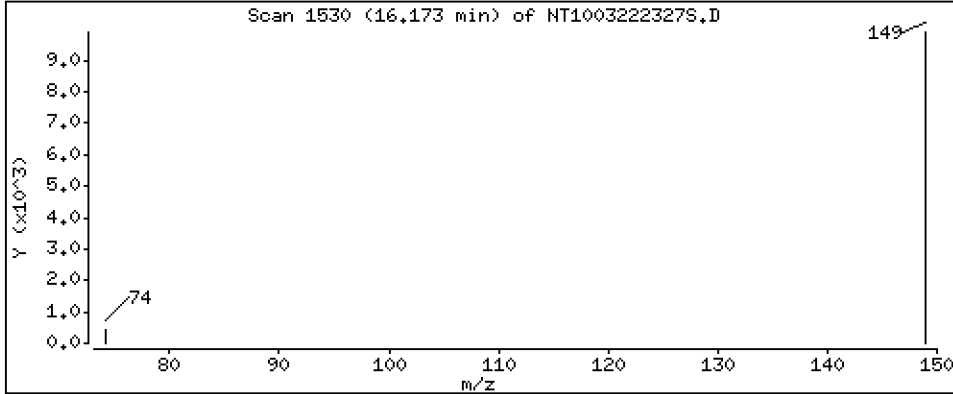
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,1865 ug/L



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11

Volume Injected (uL): 1.0

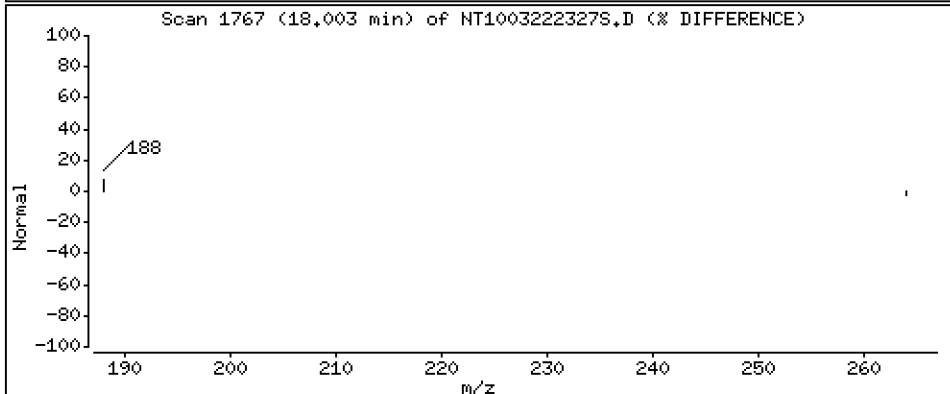
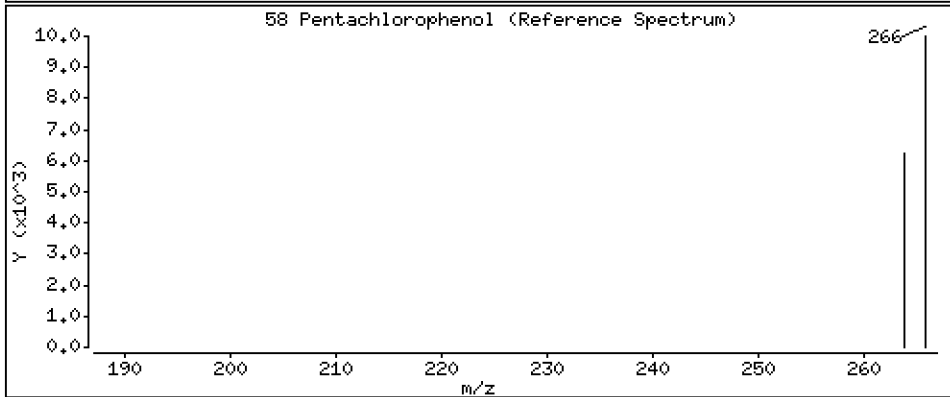
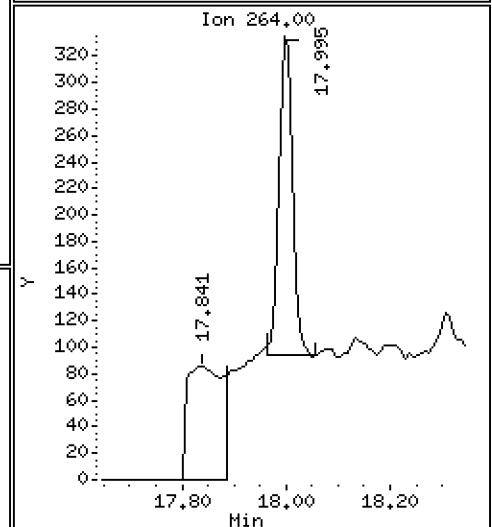
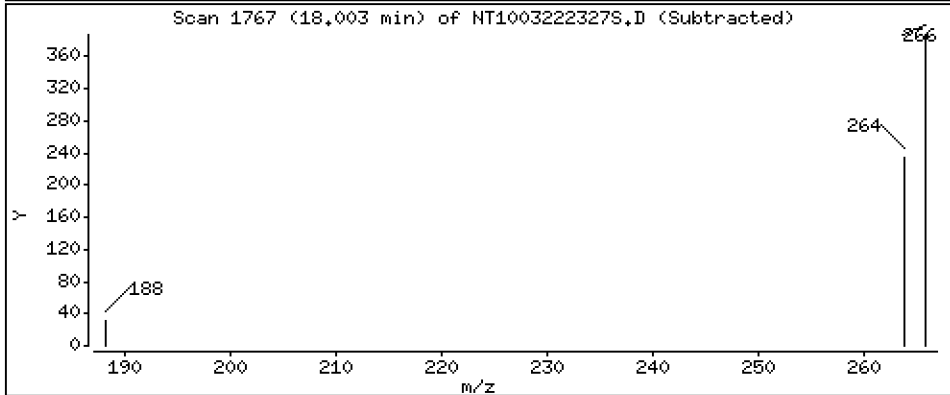
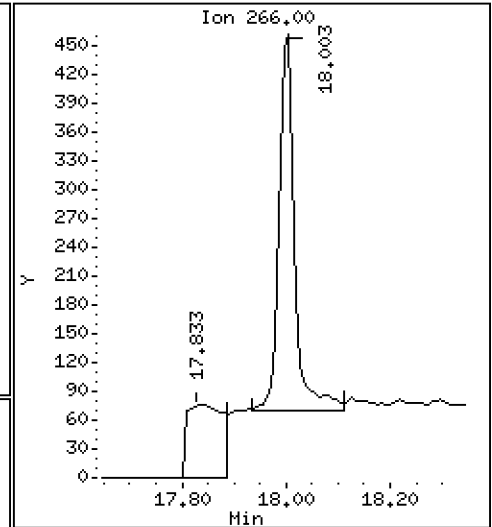
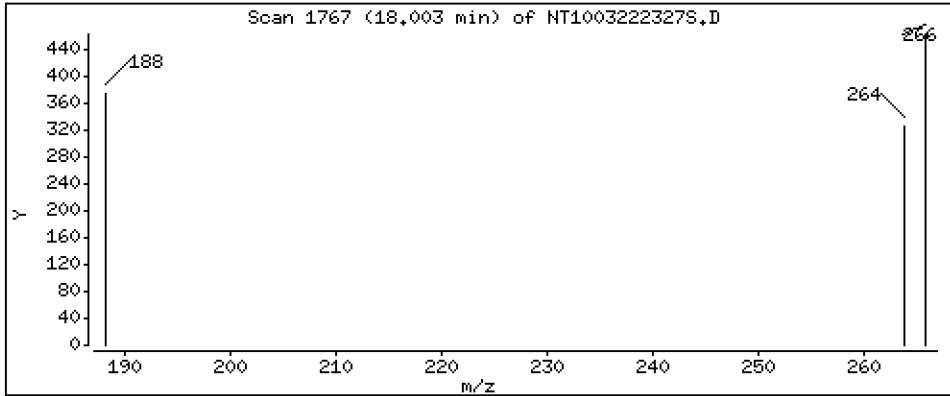
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,03621 ug/L



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11

Volume Injected (uL): 1.0

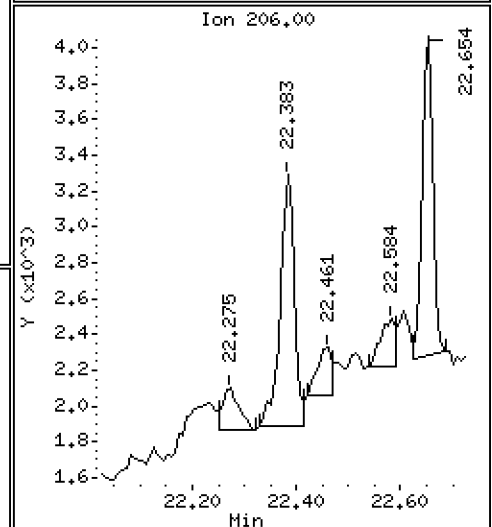
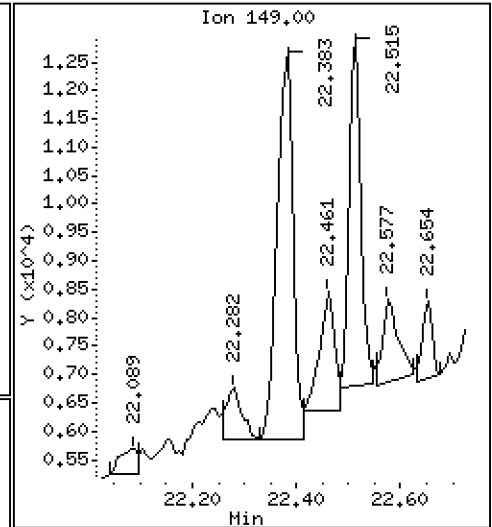
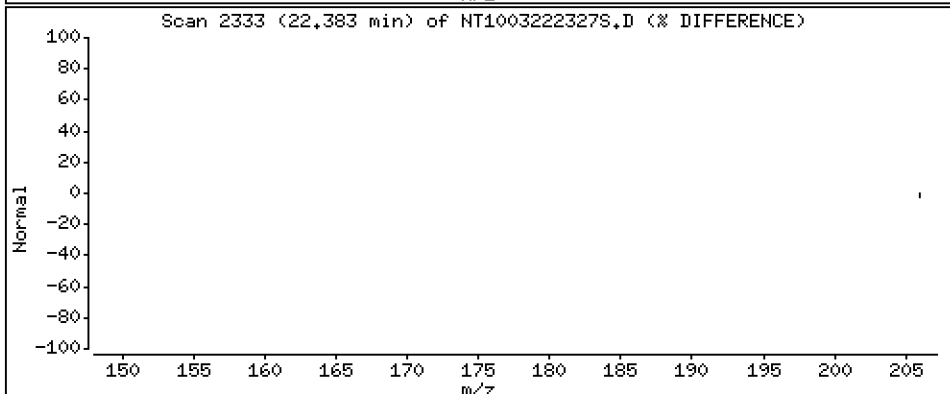
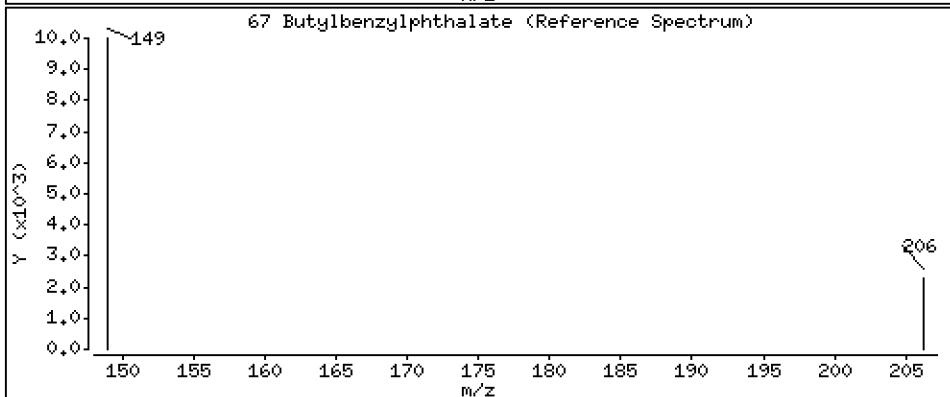
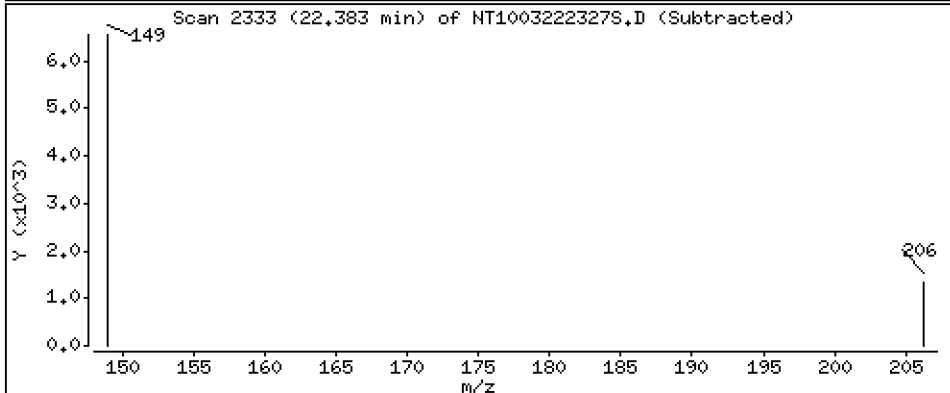
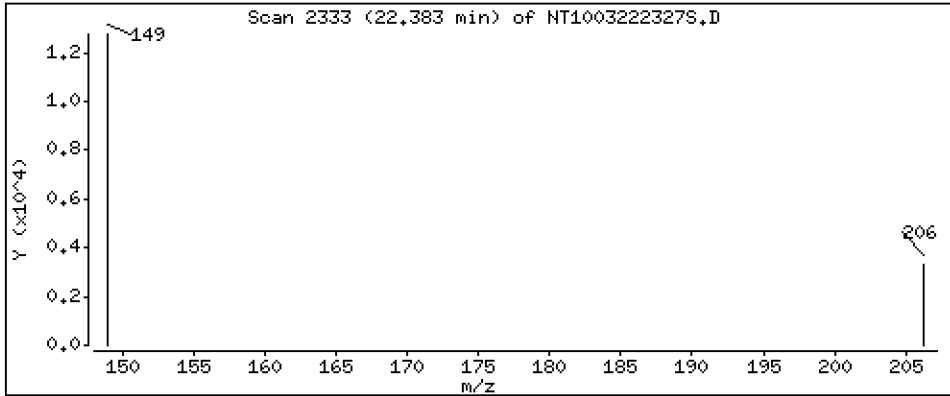
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,1763 ug/L



Date : 23-MAR-2023 09:33

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-11

Volume Injected (uL): 1.0

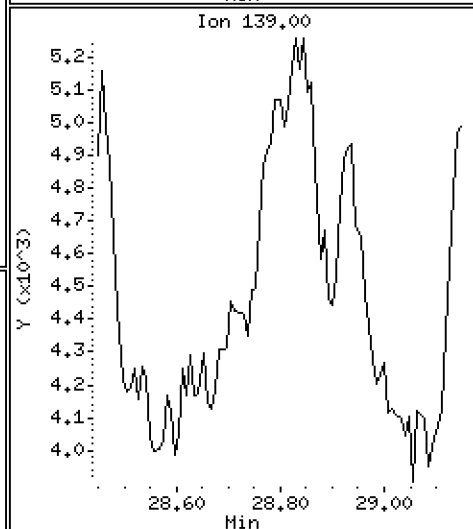
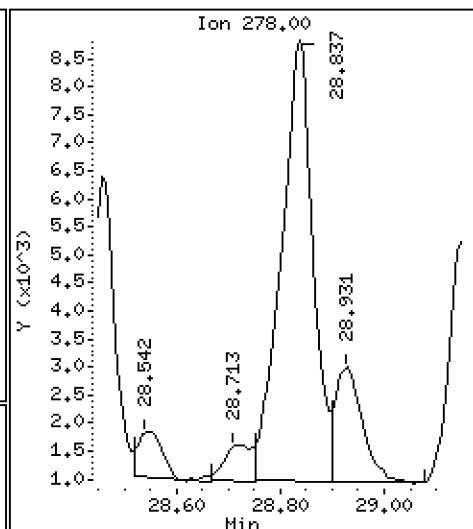
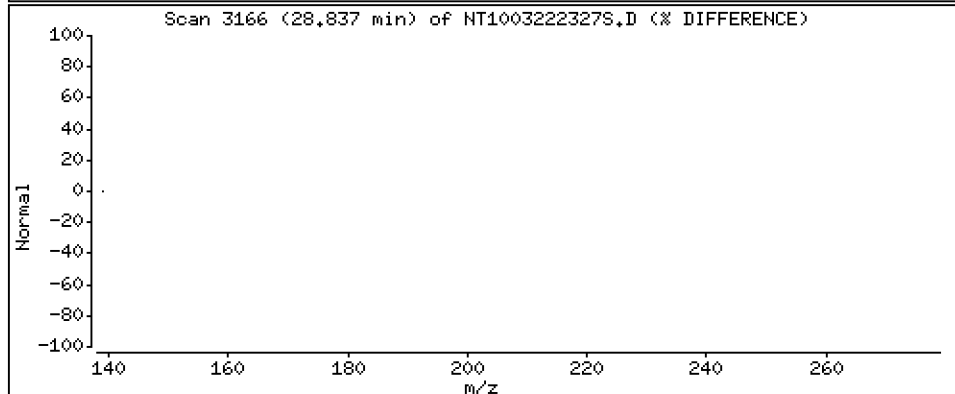
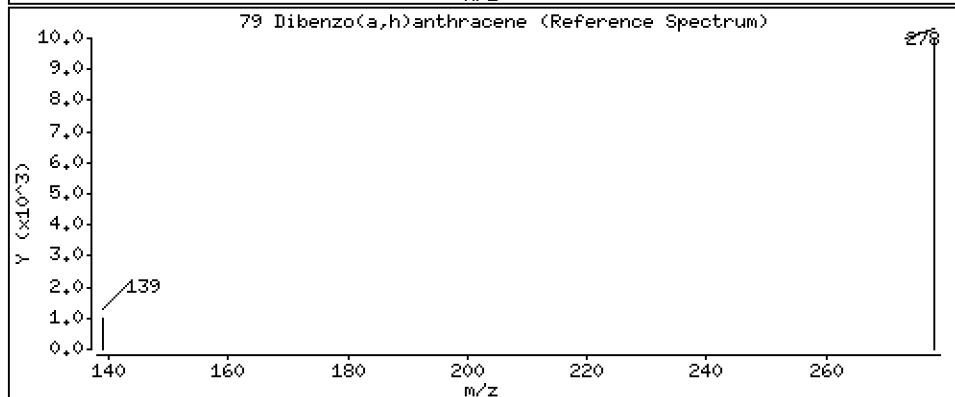
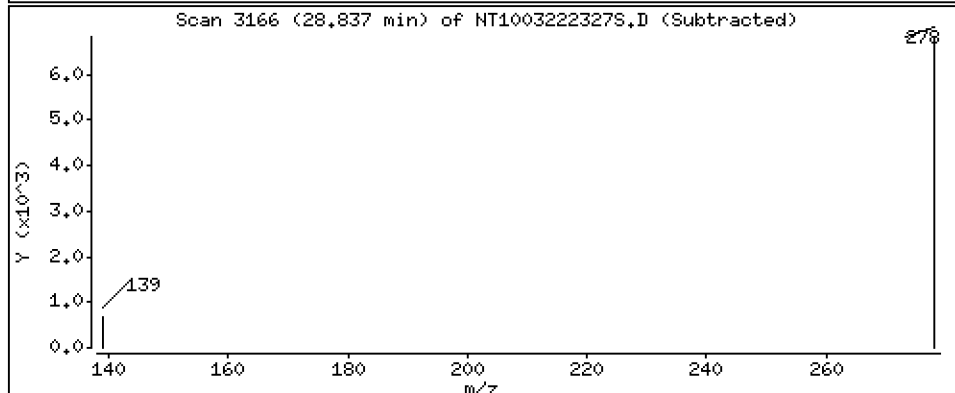
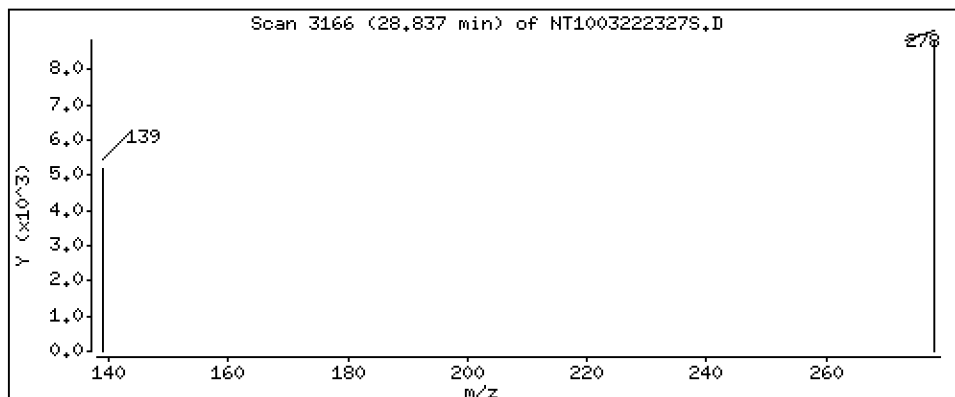
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1561 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222327S.D  
 Lab Smp Id: 23A0179-11  
 Inj Date : 23-MAR-2023 09:33 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : 23A0179-11  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Meth Date : 25-Mar-2023 16:11 yev Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 22  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: ORGDATA102

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |             |
|-------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-------------|
|                               |       |     |                        |        |         |          | ON-COLUMN      | FINAL       |
|                               | MASS  |     |                        |        |         |          | (ug/mL)        | ( ug/L)     |
| \$ 1 2-Fluorophenol           | 112   |     | 6.872                  | 6.856  | (0.756) | 301374   | 5.65253        | 5.653 (R)   |
| 3 Phenol                      | 94    |     | 8.487                  | 8.471  | (0.934) | 227278   | 3.10714        | 3.107       |
| 7 1,3-Dichlorobenzene         | 146   |     | Compound Not Detected. |        |         |          |                |             |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.090                  | 9.090  | (1.000) | 175820   | 4.00000        |             |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.121                  | 9.121  | (1.003) | 965      | 0.01461        | 0.01461 (M) |
| 11 Benzyl alcohol             | 79    |     | 9.361                  | 9.361  | (1.030) | 16727    | 0.39445        | 0.3944      |
| 12 1,2-Dichlorobenzene        | 146   |     | Compound Not Detected. |        |         |          |                |             |
| 13 2-Methylphenol             | 108   |     | Compound Not Detected. |        |         |          |                |             |
| 15 4-Methylphenol             | 108   |     | 9.866                  | 9.858  | (1.085) | 26132    | 0.49617        | 0.4962      |
| 16 N-Nitroso-di-n-propylamine | 70    |     | Compound Not Detected. |        |         |          |                |             |
| 22 2,4-Dimethylphenol         | 107   |     | 10.915                 | 10.906 | (0.943) | 1020     | 0.01888        | 0.01888     |
| 24 Benzoic acid               | 105   |     | 11.025                 | 11.033 | (0.952) | 21045    | 0.71091        | 0.7109      |
| 26 1,2,4-Trichlorobenzene     | 180   |     | Compound Not Detected. |        |         |          |                |             |
| * 27 Naphthalene-d8           | 136   |     | 11.577                 | 11.577 | (1.000) | 624863   | 4.00000        |             |
| 30 Hexachlorobutadiene        | 225   |     | Compound Not Detected. |        |         |          |                |             |
| 39 Dimethylphthalate          | 163   |     | 14.711                 | 14.711 | (0.967) | 6668     | 0.06877        | 0.06877 (M) |
| * 42 Acenaphthene-d10         | 162   |     | 15.206                 | 15.206 | (1.000) | 307249   | 4.00000        |             |
| 50 Diethylphthalate           | 149   |     | 16.172                 | 16.172 | (1.064) | 18737    | 0.18654        | 0.1865      |
| 54 N-Nitrosodiphenylamine     | 169   |     | Compound Not Detected. |        |         |          |                |             |
| 57 Hexachlorobenzene          | 284   |     | Compound Not Detected. |        |         |          |                |             |

| Compounds                 | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |          |
|---------------------------|-------|-----|------------------------|--------|---------|----------|----------------|----------|
|                           |       |     |                        |        |         |          | ON-COLUMN      | FINAL    |
|                           | MASS  |     |                        |        |         |          | (ug/mL)        | ( ug/L)  |
| =====                     | ===== |     | =====                  | =====  | =====   | =====    | =====          | =====    |
| 58 Pentachlorophenol      | 266   |     | 18.003                 | 17.995 | (0.986) | 783      | 0.03621        | 0.03621  |
| * 59 Phenanthrene-d10     | 188   |     | 18.258                 | 18.258 | (1.000) | 652187   | 4.00000        |          |
| \$ 66 Terphenyl-d14       | 244   |     | 21.438                 | 21.438 | (0.917) | 523126   | 5.31871        | 5.319(R) |
| 67 Butylbenzylphthalate   | 149   |     | 22.383                 | 22.375 | (0.958) | 14010    | 0.17629        | 0.1763   |
| * 69 Chrysene-d12         | 240   |     | 23.366                 | 23.350 | (1.000) | 603648   | 4.00000        |          |
| * 77 Perylene-d12         | 264   |     | 26.060                 | 26.037 | (1.000) | 663172   | 4.00000        |          |
| 79 Dibenzo(a,h)anthracene | 278   |     | 28.837                 | 28.798 | (1.107) | 33957    | 0.15608        | 0.1561   |
| 90 N-Nitrosodimethylamine | 74    |     | Compound Not Detected. |        |         |          |                |          |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT1003222327S.D  
 Lab Smp Id: 23A0179-11  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Misc Info:

Calibration Date: 23-MAR-2023  
 Calibration Time: 03:52  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 140507   | 70254      | 281014  | 175820 | 25.13 |
| 27 Naphthalene-d8   | 499190   | 249595     | 998380  | 624863 | 25.18 |
| 42 Acenaphthene-d10 | 250303   | 125152     | 500606  | 307249 | 22.75 |
| 59 Phenanthrene-d10 | 496896   | 248448     | 993792  | 652187 | 31.25 |
| 69 Chrysene-d12     | 465837   | 232919     | 931674  | 603648 | 29.58 |
| 77 Perylene-d12     | 551078   | 275539     | 1102156 | 663172 | 20.34 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.09     | 8.59     | 9.59  | 9.09   | 0.00  |
| 27 Naphthalene-d8   | 11.58    | 11.08    | 12.08 | 11.58  | 0.00  |
| 42 Acenaphthene-d10 | 15.21    | 14.71    | 15.71 | 15.21  | 0.00  |
| 59 Phenanthrene-d10 | 18.26    | 17.76    | 18.76 | 18.26  | 0.00  |
| 69 Chrysene-d12     | 23.35    | 22.85    | 23.85 | 23.37  | 0.07  |
| 77 Perylene-d12     | 26.04    | 25.54    | 26.54 | 26.06  | 0.09  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222327S.D

Lab ID: 23A0179-11

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 23-MAR-2023 09:33

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

---

NONE

RRT check based on Ccal File: SIM.b/NT1003222318S.D

On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

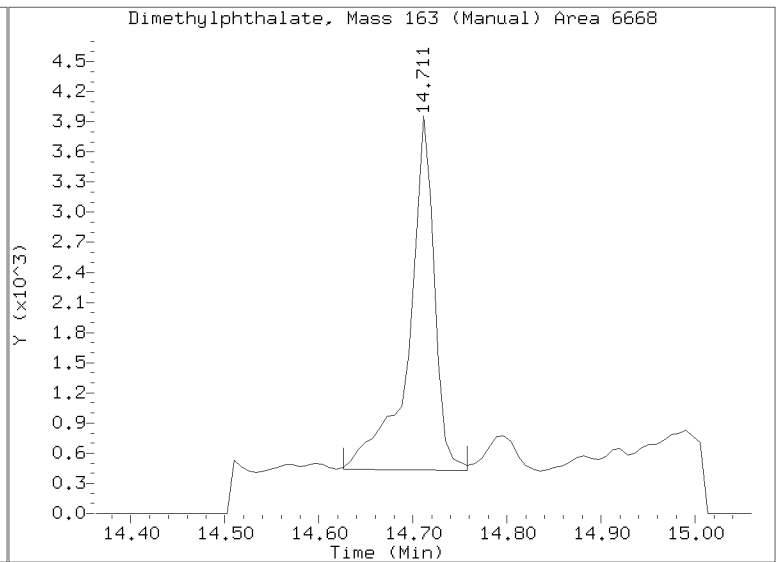
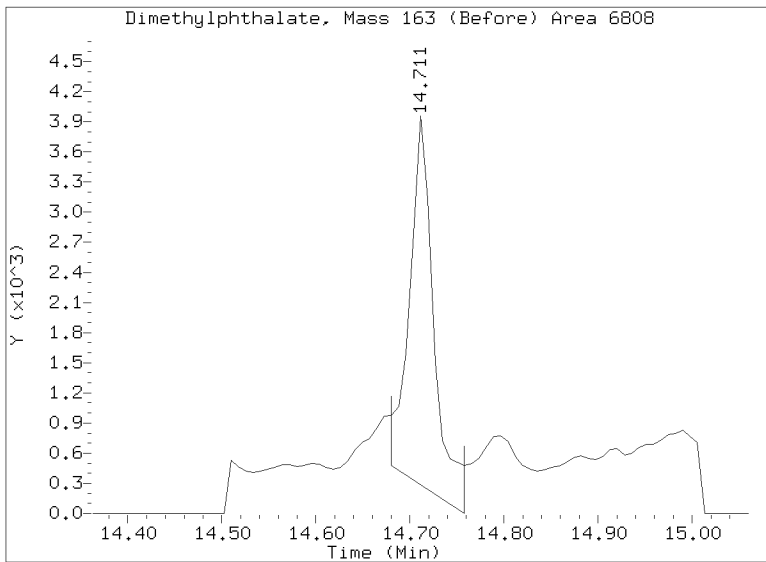
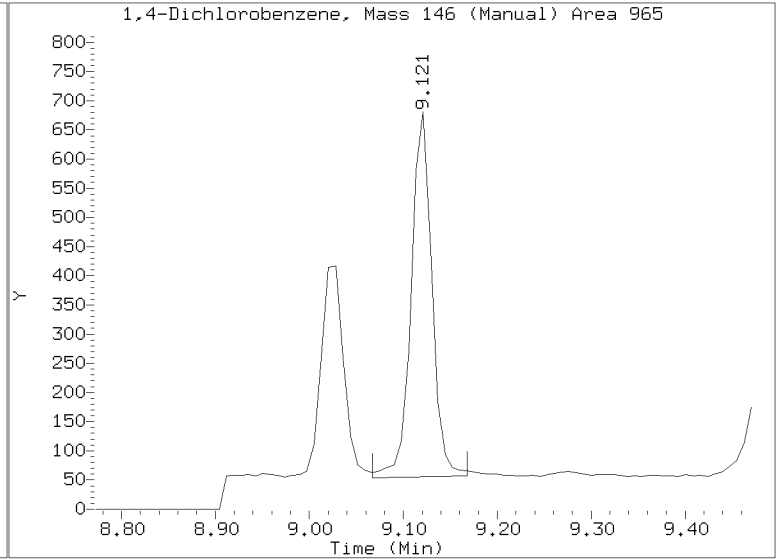
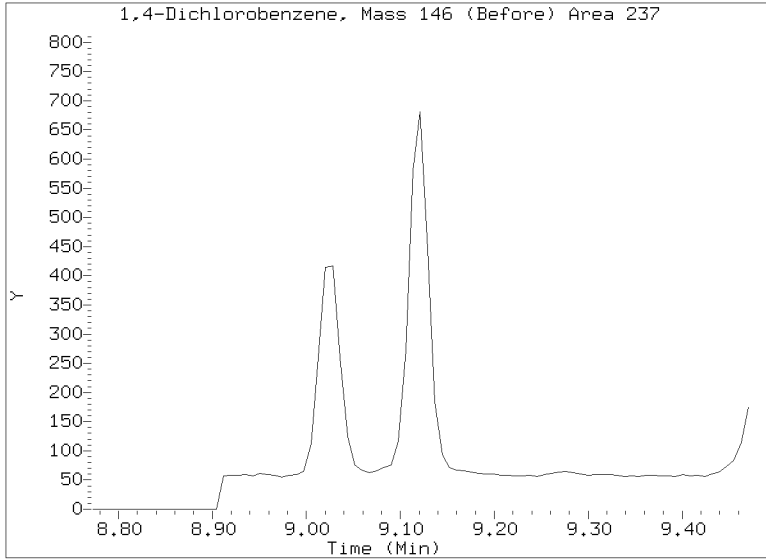
Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*



# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222327S.D  
Injection Date: 23-MAR-2023 09:33  
Lab ID:23A0179-11 Client ID:  
Report Date: 03/25/2023 16:12





Form I  
ORGANIC ANALYSIS DATA SHEET  
EPA 8270E-SIM  
SIM SVOC Organics (Dual scan list)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-12RE1 A

SDG: 23A0179

Sampled: 01/10/23 12:48

Prepared: 03/17/23 14:20

File ID: NT1003222328S.D

% Solids: 49.35

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 10:11

Batch: BLC0442

Sequence: SLC0407

Initial/Final: 20.82 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00049

Cleanups: GPC

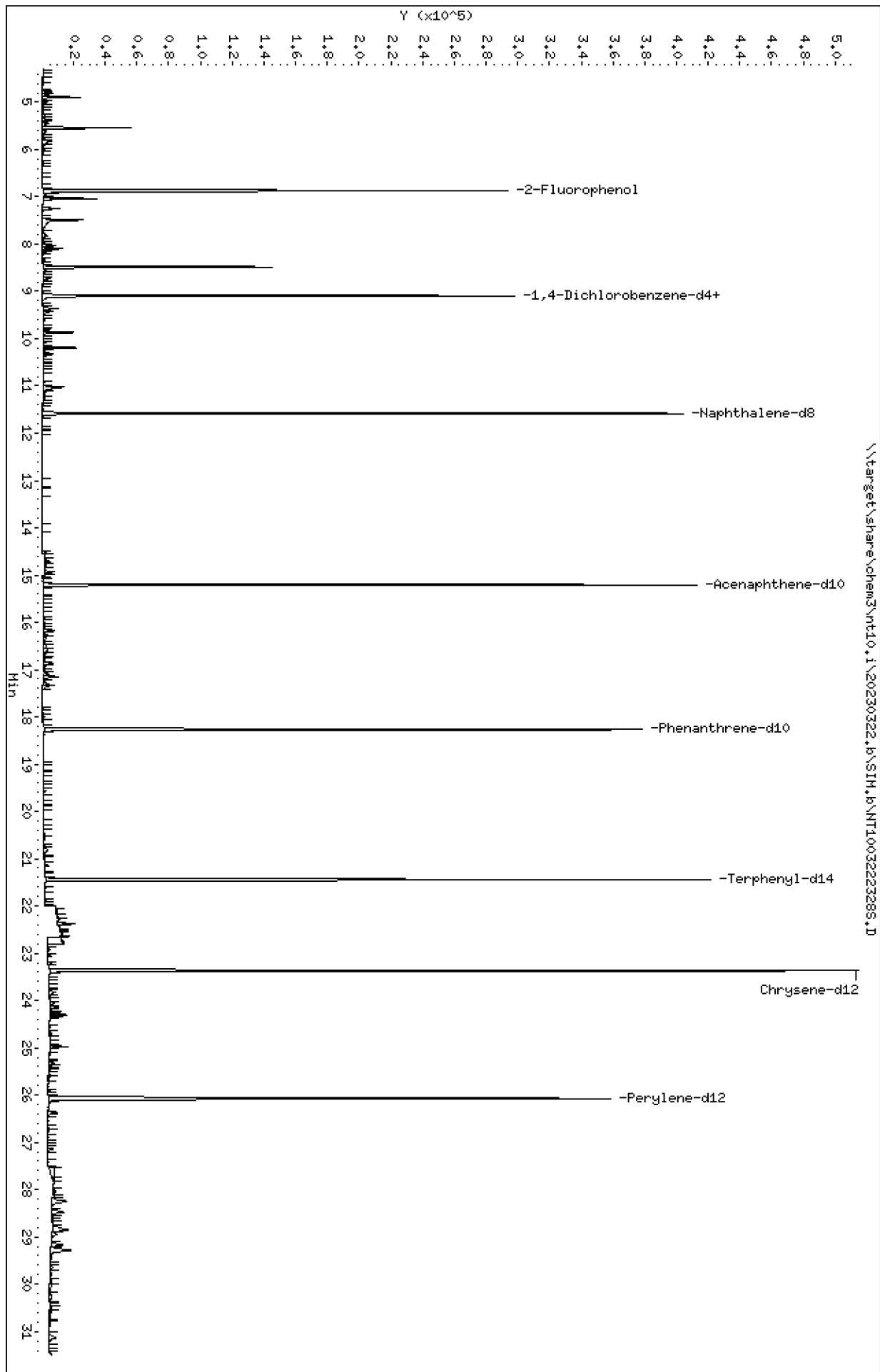
| CAS NO.  | COMPOUND               | DILUTION | CONC:<br>(ug/kg dry) | Q | DL   | RL   |
|----------|------------------------|----------|----------------------|---|------|------|
| 106-46-7 | 1,4-Dichlorobenzene    | 1        | 1.7                  | J | 0.6  | 4.9  |
| 95-50-1  | 1,2-Dichlorobenzene    | 1        | 4.9                  | U | 0.7  | 4.9  |
| 100-51-6 | Benzyl Alcohol         | 1        | 28.2                 |   | 2.4  | 19.5 |
| 65-85-0  | Benzoic acid           | 1        | 61.8                 | J | 13.0 | 97.3 |
| 105-67-9 | 2,4-Dimethylphenol     | 1        | 19.5                 | U | 2.1  | 19.5 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1        | 4.9                  | U | 2.6  | 4.9  |
| 86-30-6  | N-Nitrosodiphenylamine | 1        | 4.9                  | U | 1.3  | 4.9  |
| 87-86-5  | Pentachlorophenol      | 1        | 7.9                  | J | 2.1  | 19.5 |

| SURROGATES      | ADDED:<br>(ug/kg dry) | FOUND:<br>(ug/kg dry) | % REC | QC LIMITS | Q |
|-----------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol  | 729.95                | 528                   | 72.4  | 27 - 120  |   |
| p-Terphenyl-d14 | 486.63                | 492                   | 101   | 37 - 120  |   |

Data File: \\target\share\chem3\nt10.1\20230322.16\SIM.B\NT1003223288.D  
Date: 23-MAR-2023 10:11  
Client ID:  
Sample Info: 23A0179-12  
Volume Injected (uL): 1.0  
Column phase: ZB-5msi

Instrument: nt10.1  
Operator: JGR  
Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\SIM.B\NT1003223288.D



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12

Volume Injected (uL): 1.0

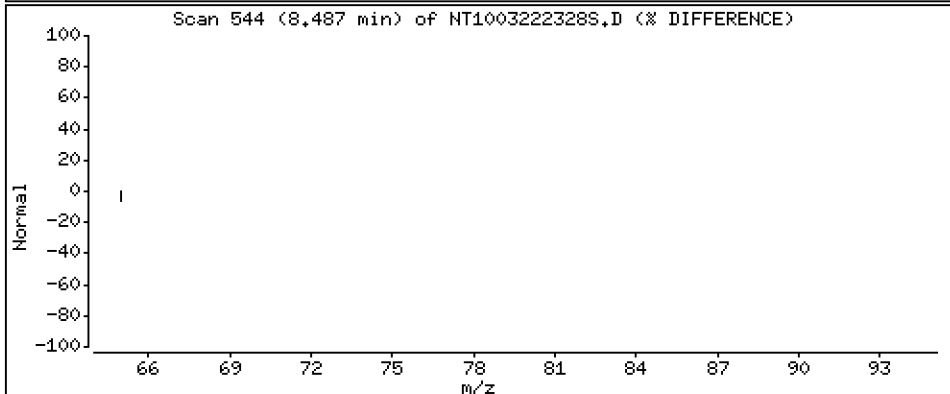
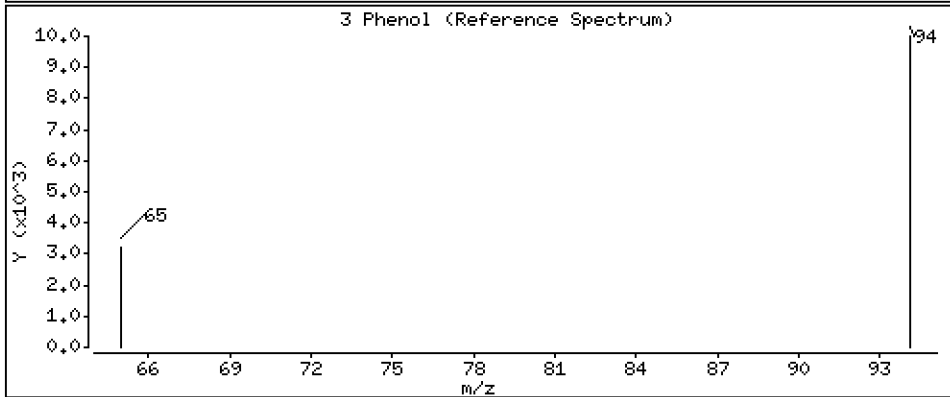
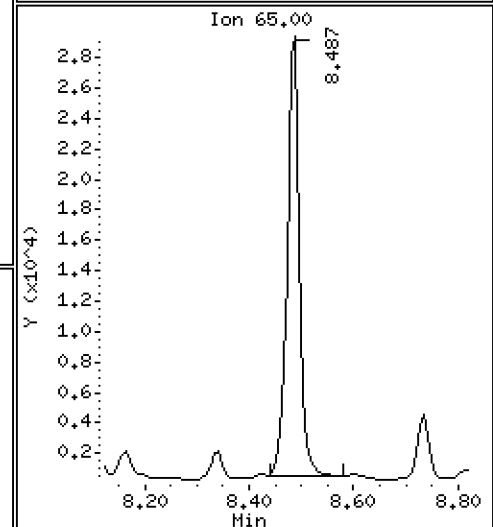
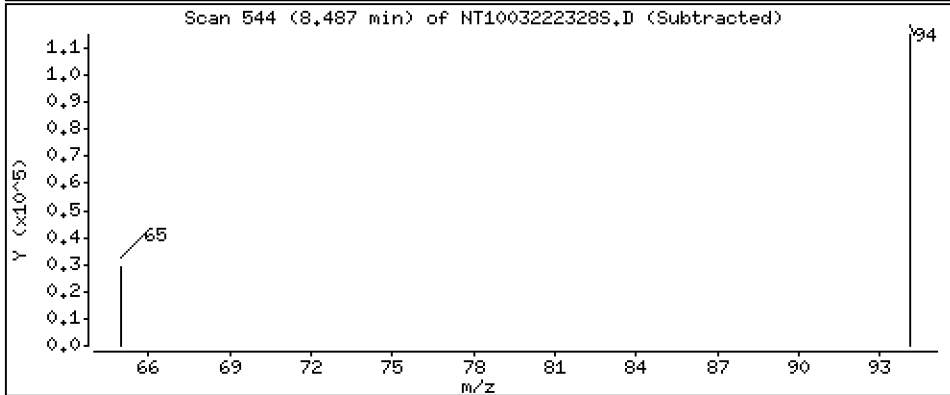
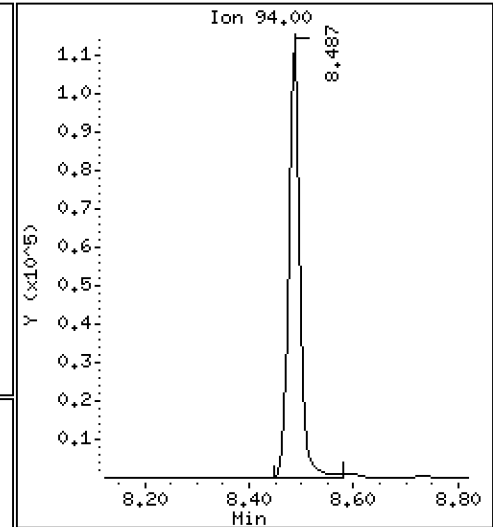
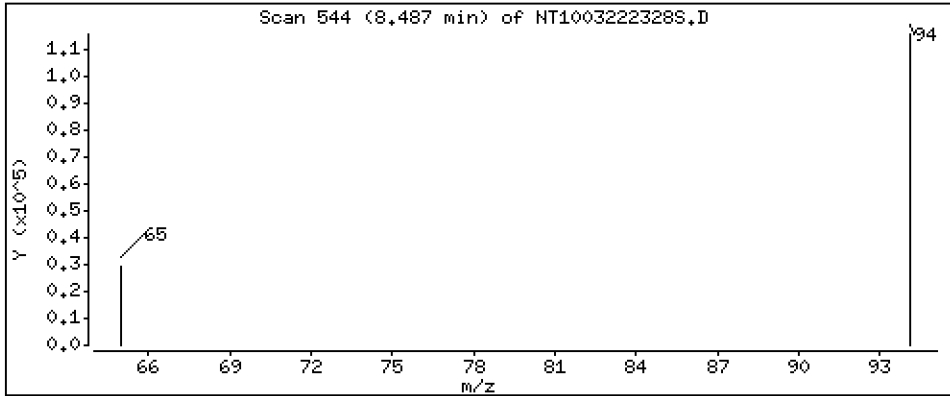
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 2,312 ug/L



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12

Volume Injected (uL): 1.0

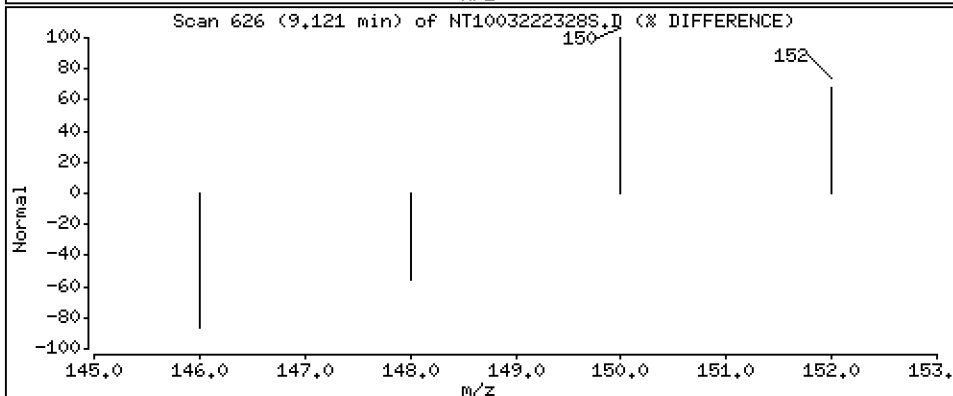
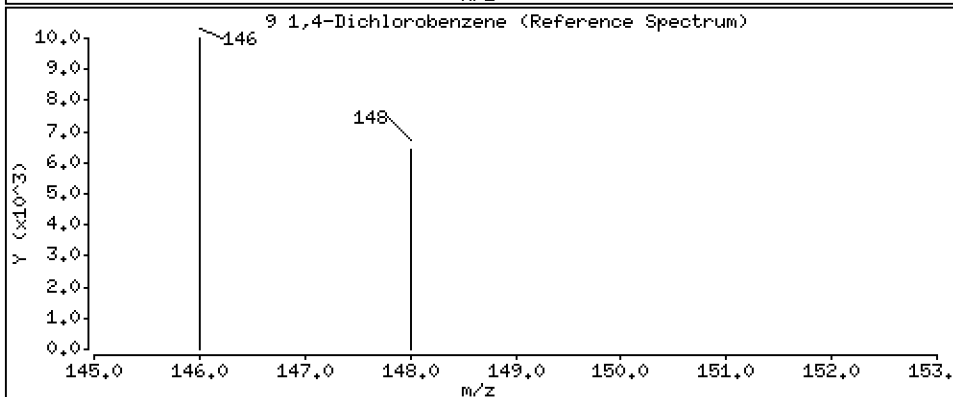
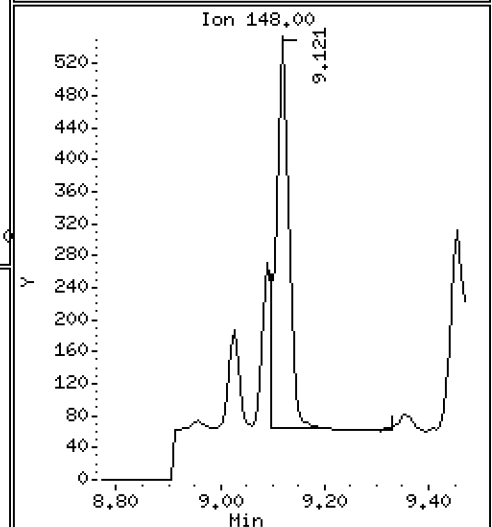
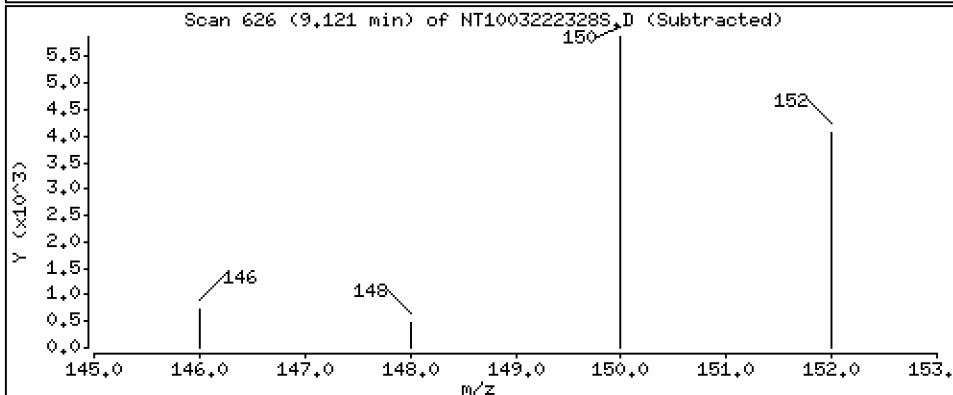
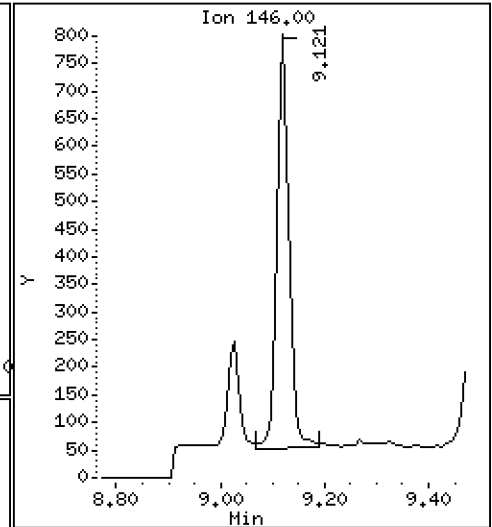
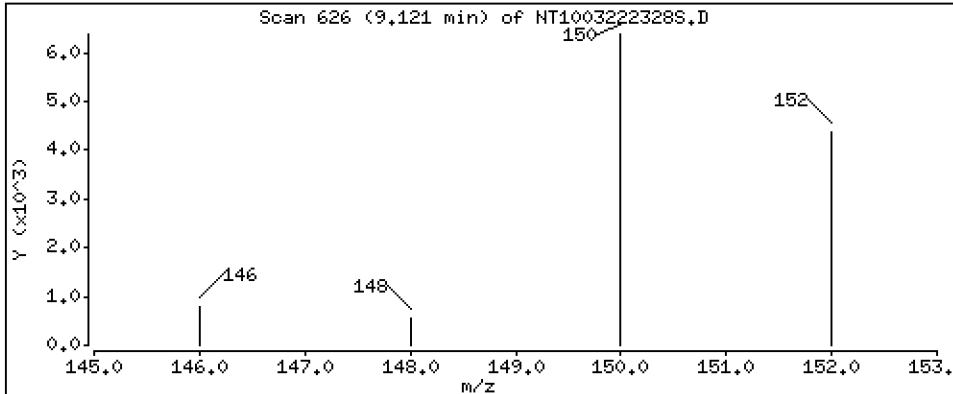
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,01775 ug/L



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12

Volume Injected (uL): 1.0

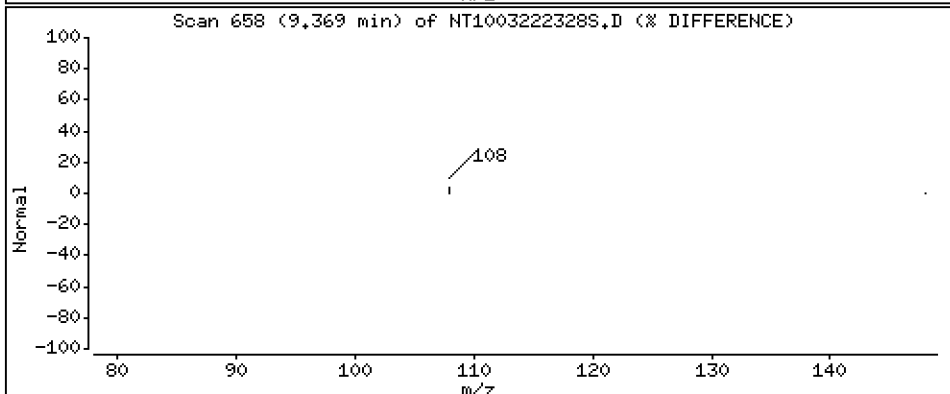
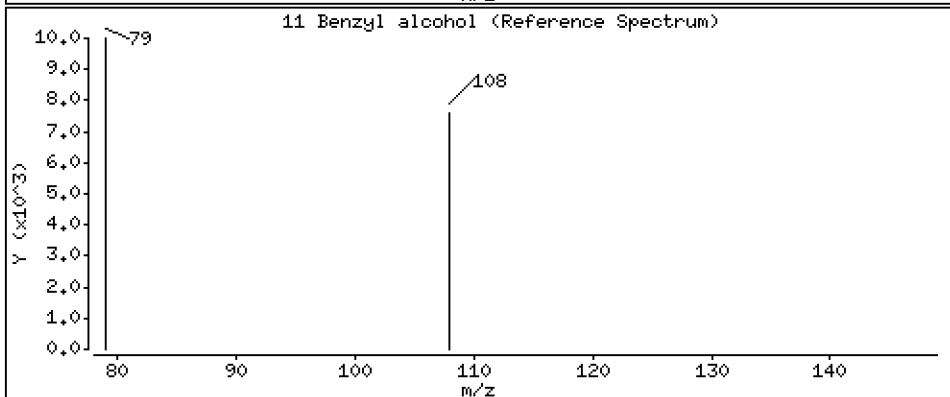
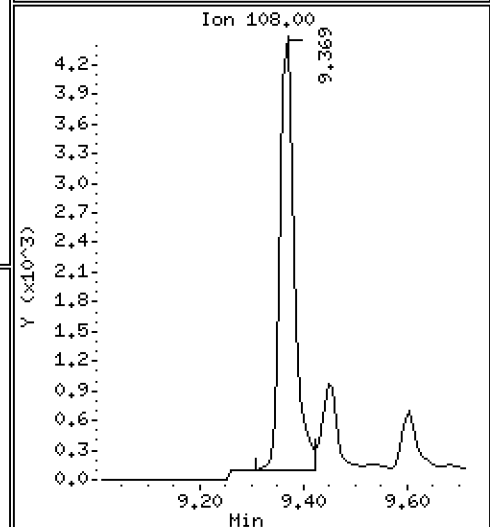
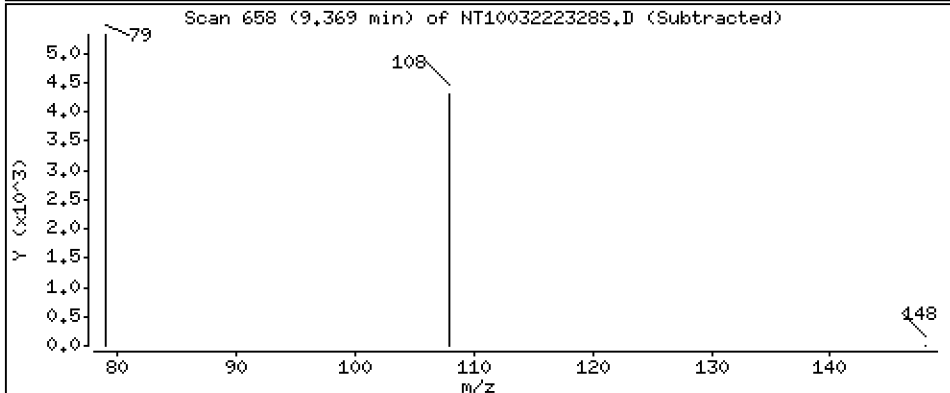
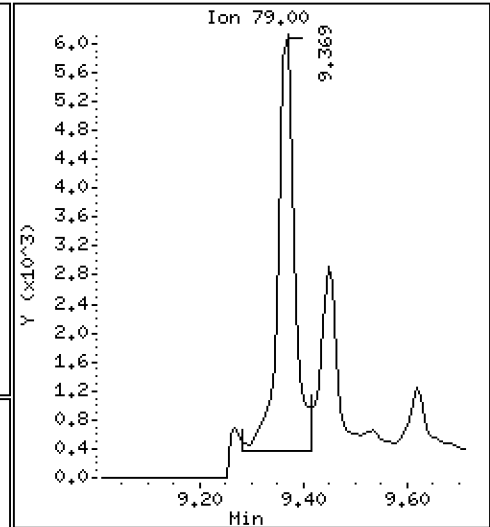
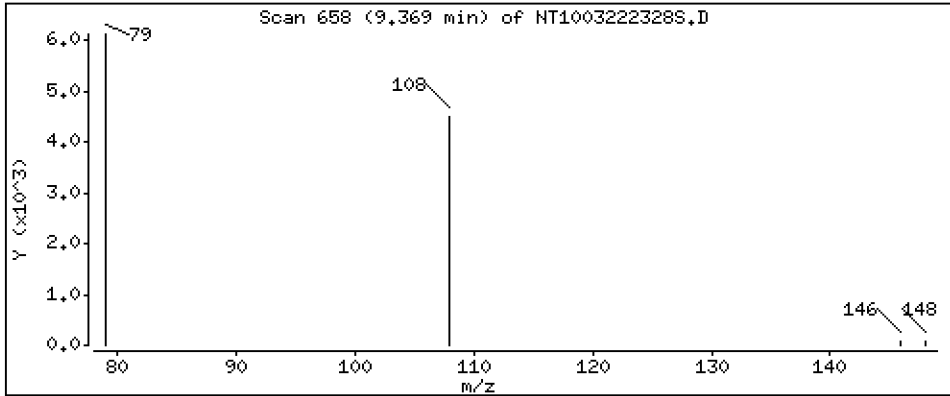
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.2898 ug/L



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12

Volume Injected (uL): 1.0

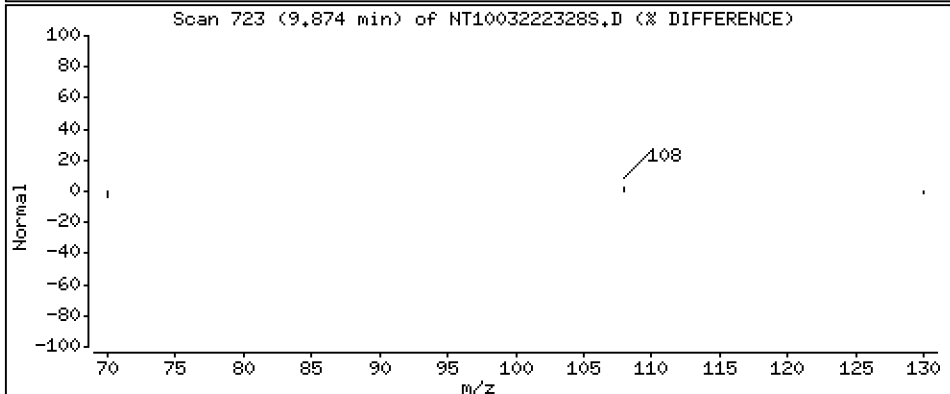
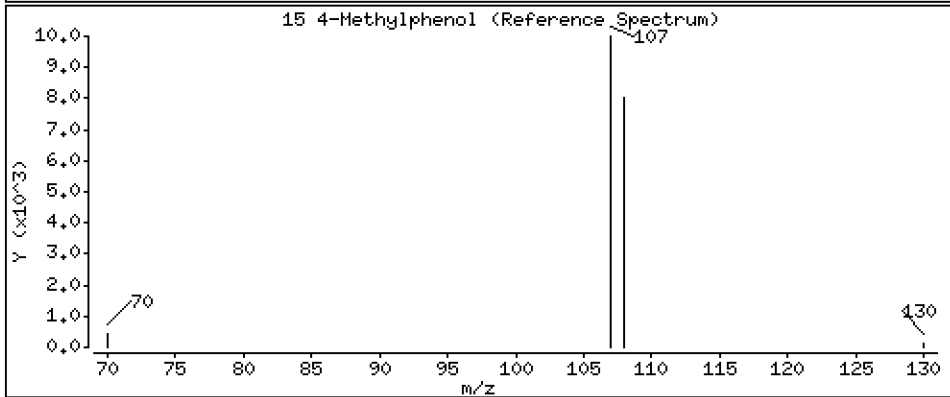
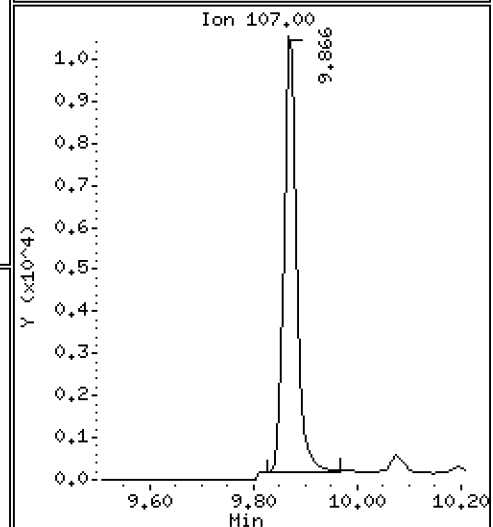
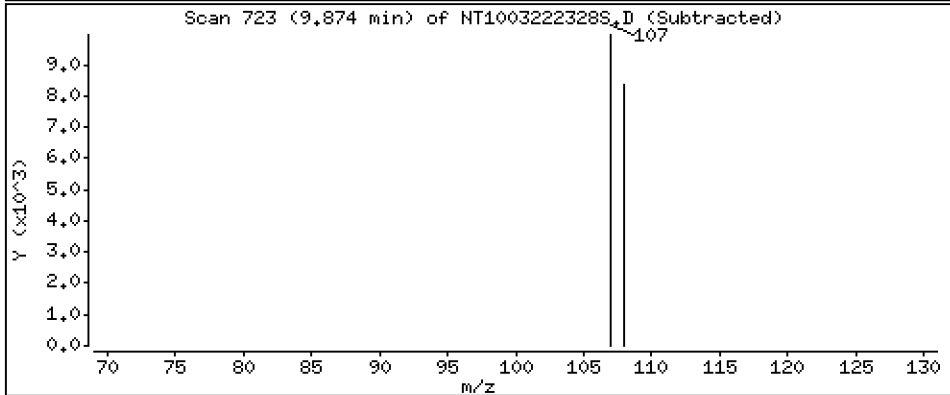
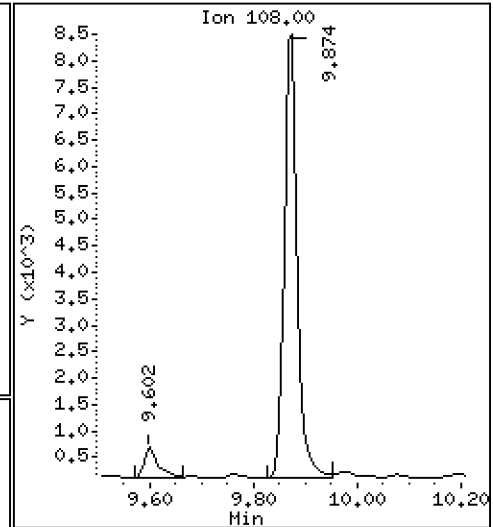
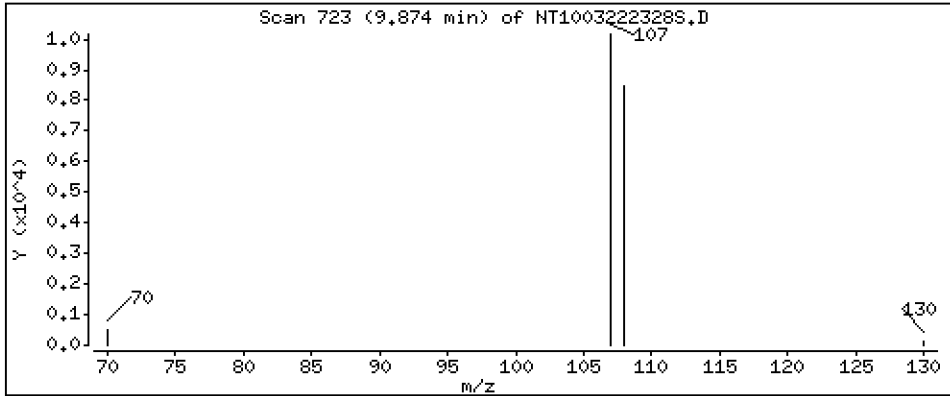
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.2729 ug/L



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12

Volume Injected (uL): 1.0

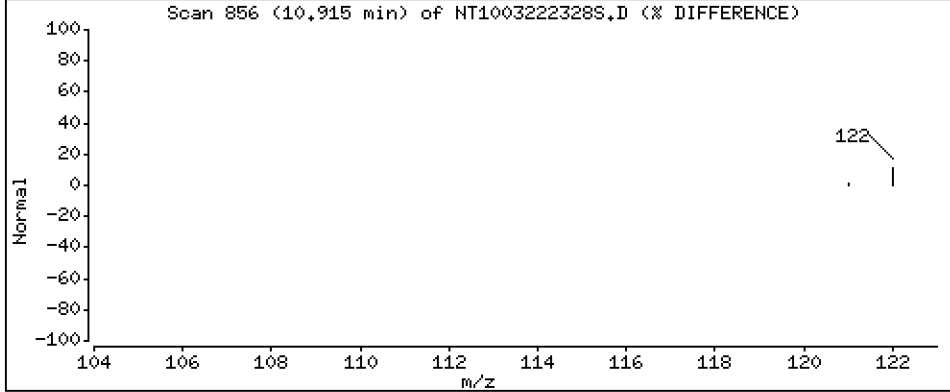
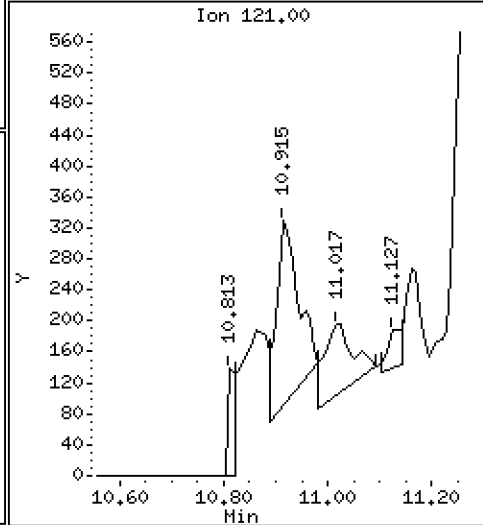
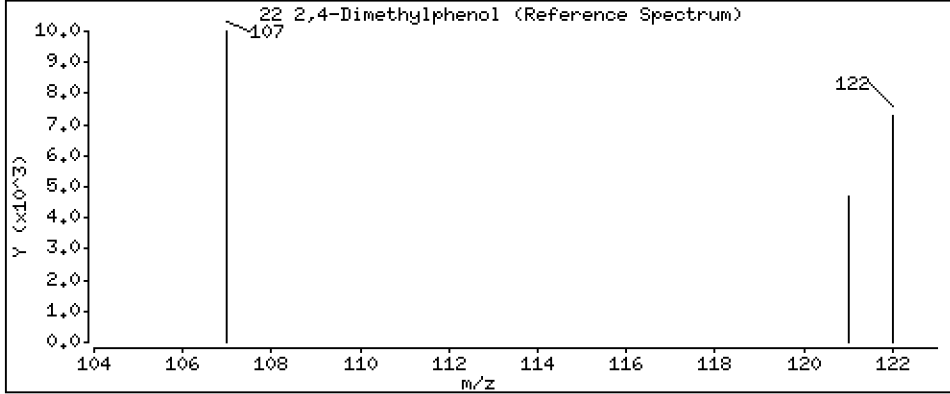
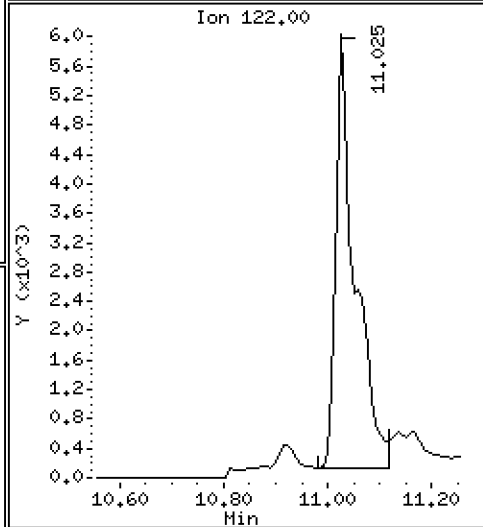
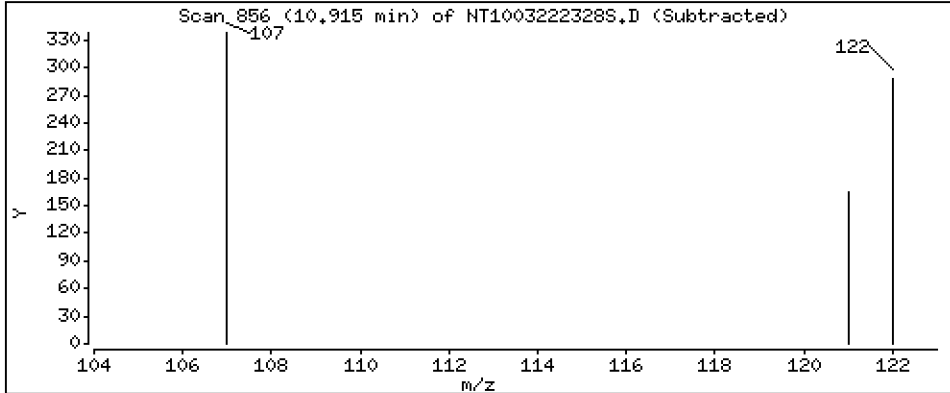
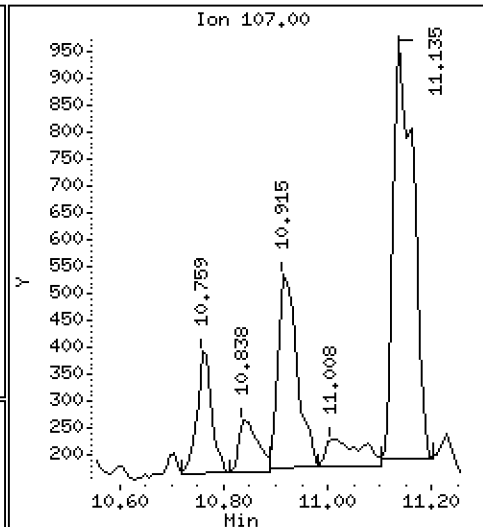
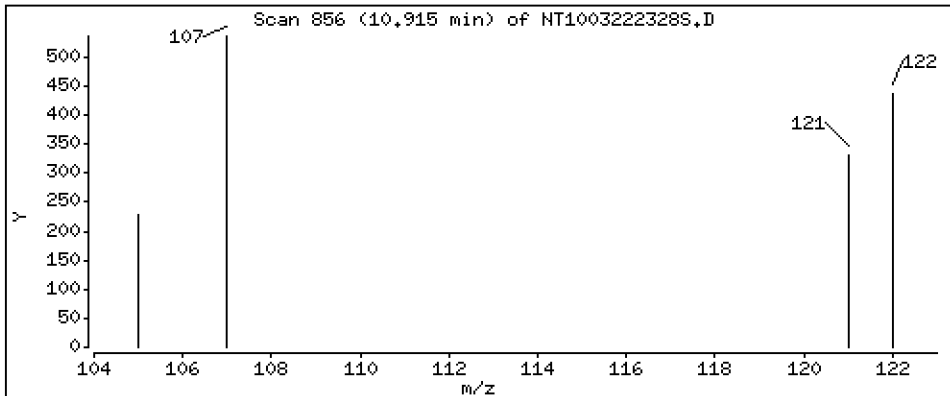
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 0.01641 ug/L





Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12

Volume Injected (uL): 1.0

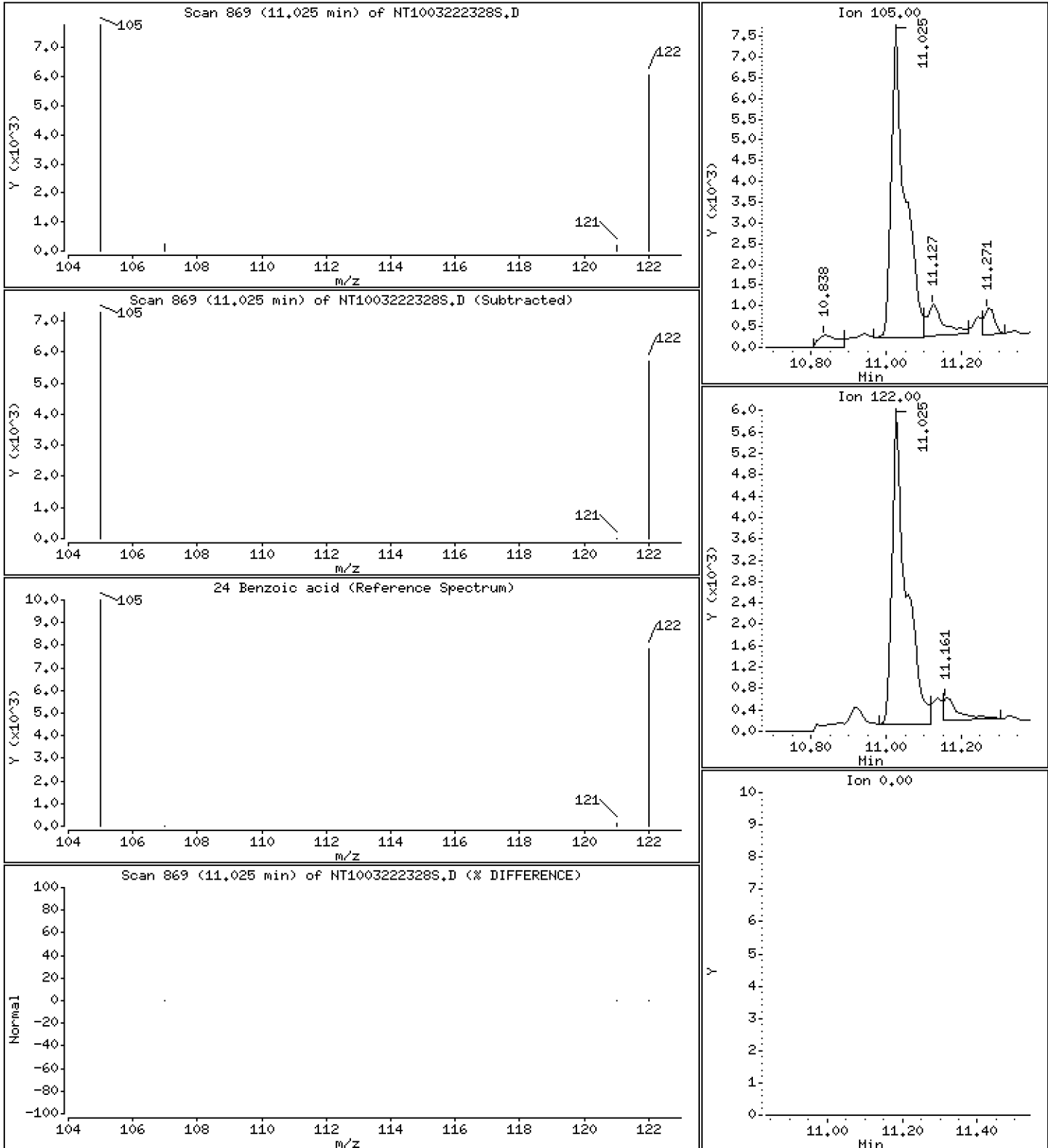
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.6353 ug/L



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12

Volume Injected (uL): 1.0

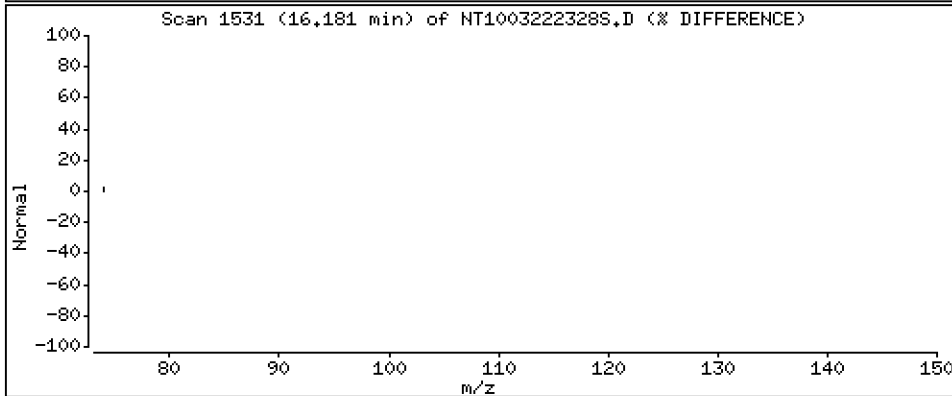
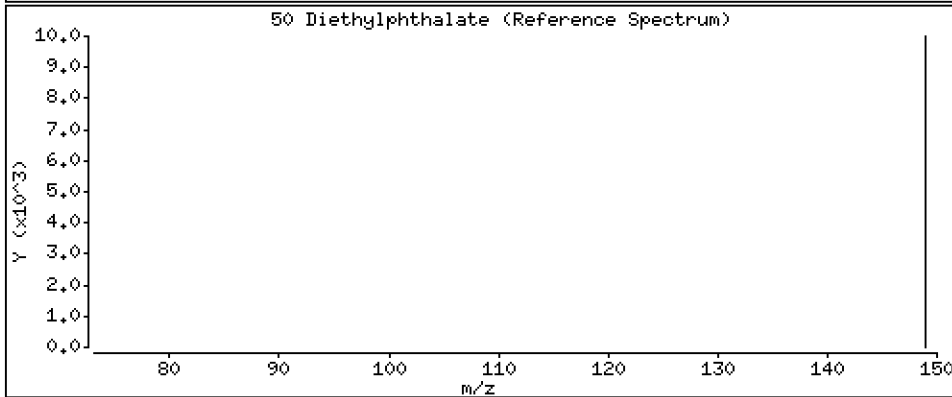
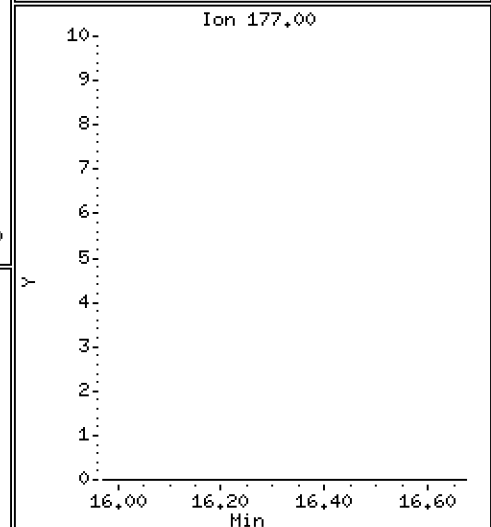
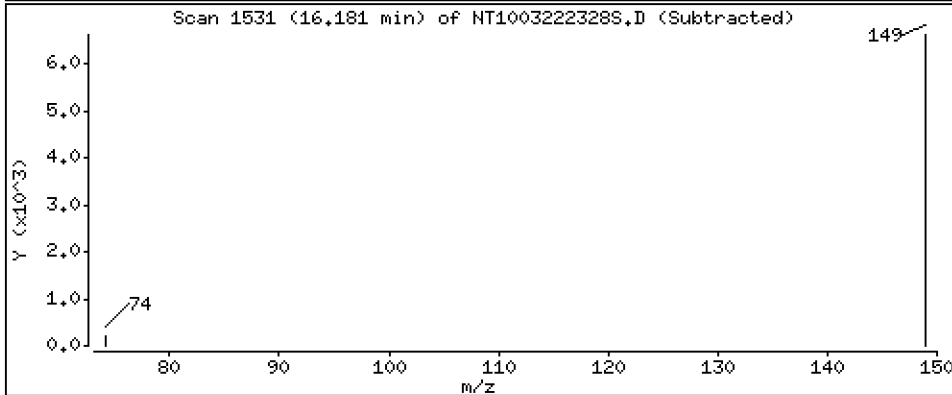
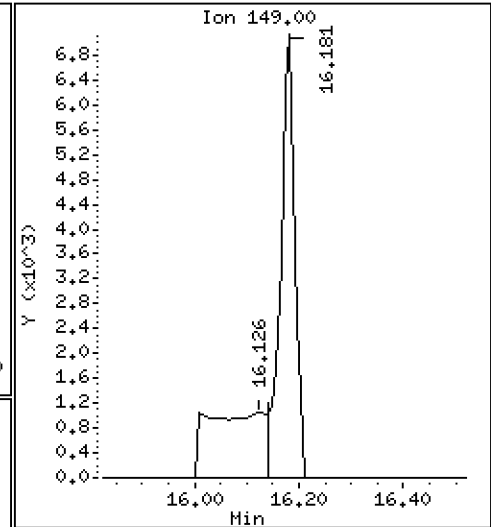
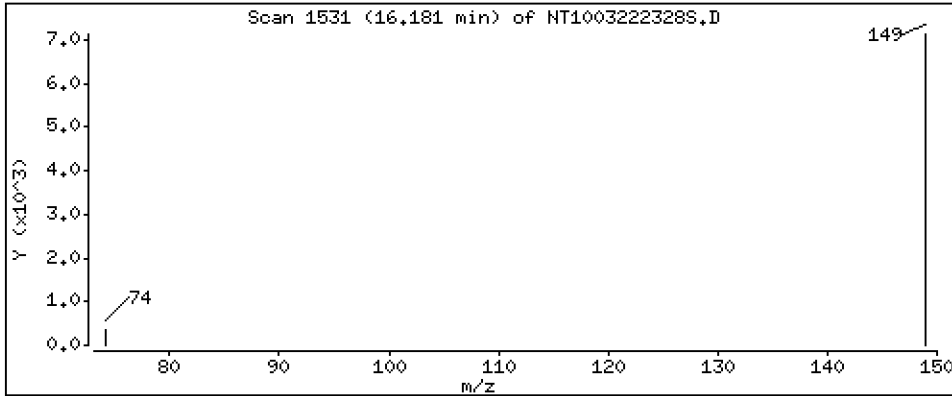
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,1335 ug/L



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12

Volume Injected (uL): 1.0

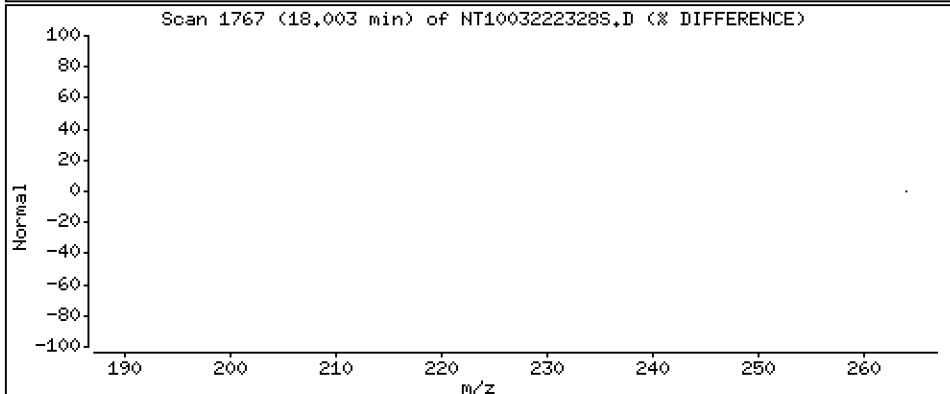
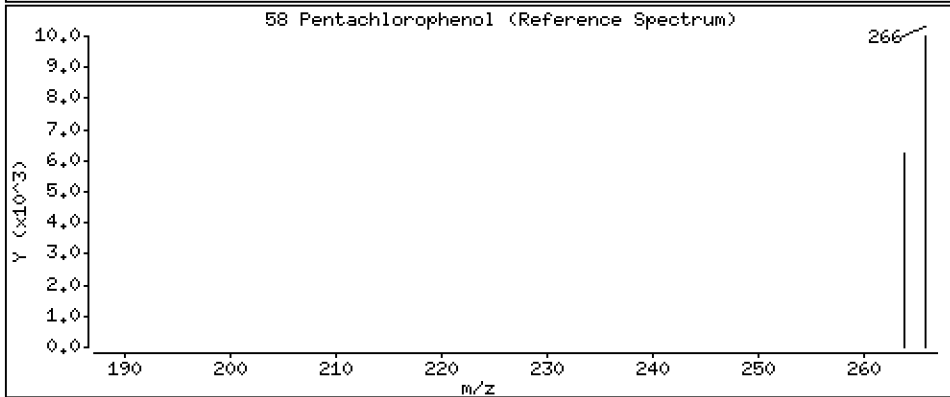
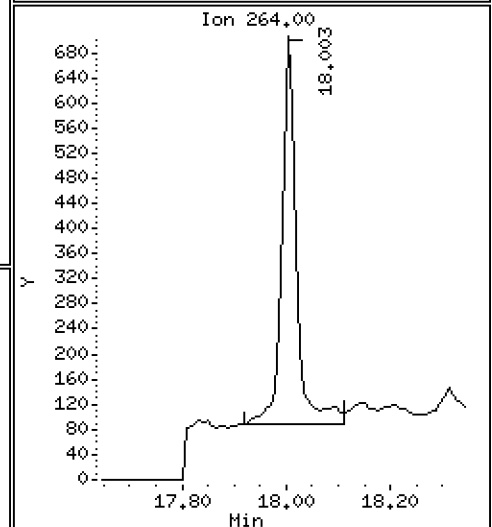
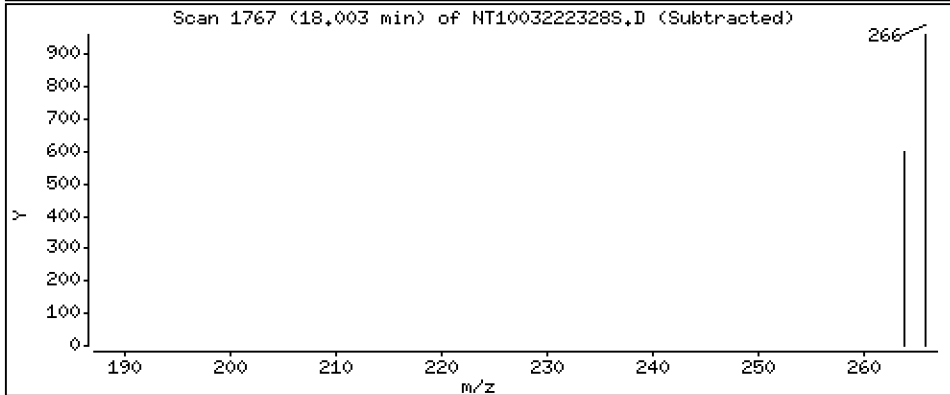
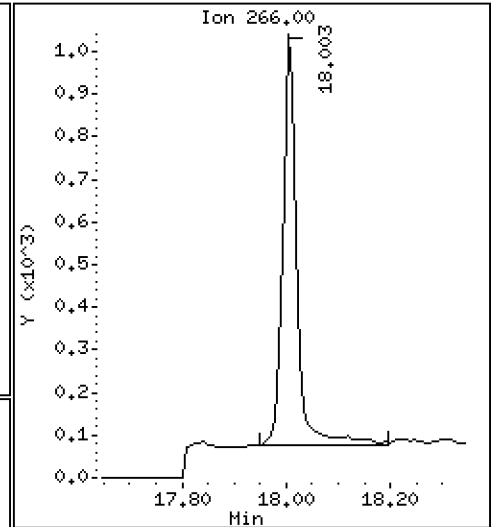
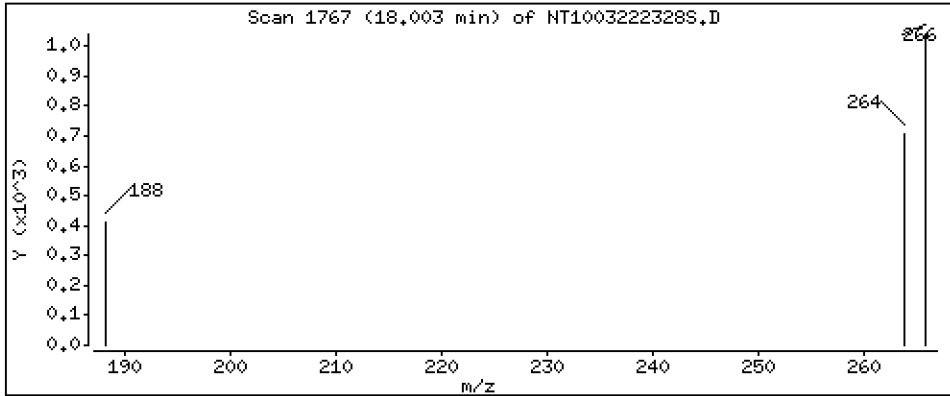
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,08075 ug/L



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12

Volume Injected (uL): 1.0

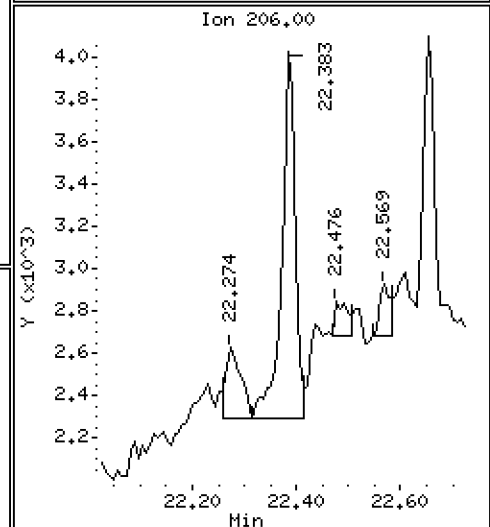
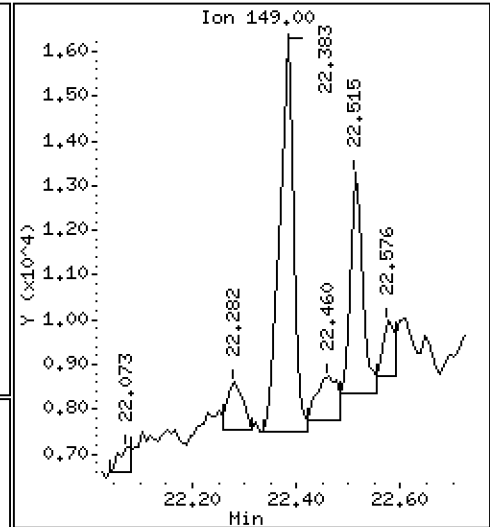
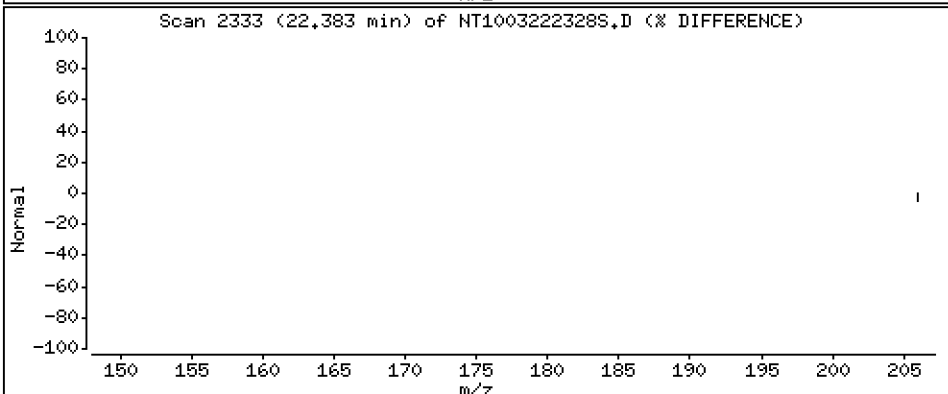
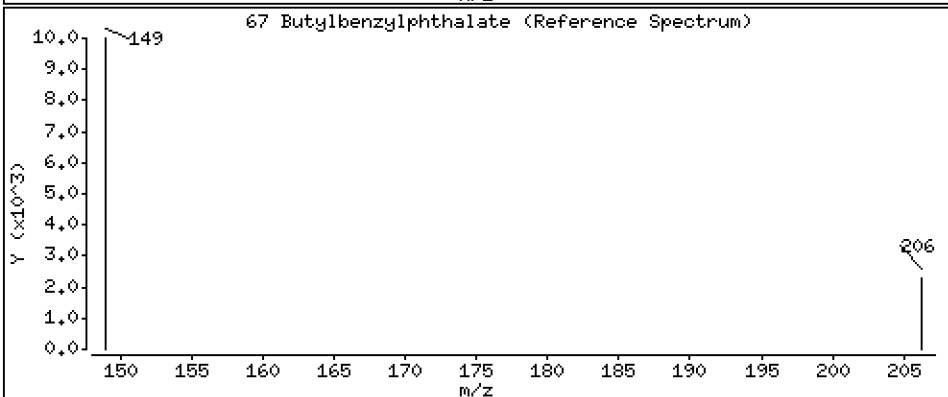
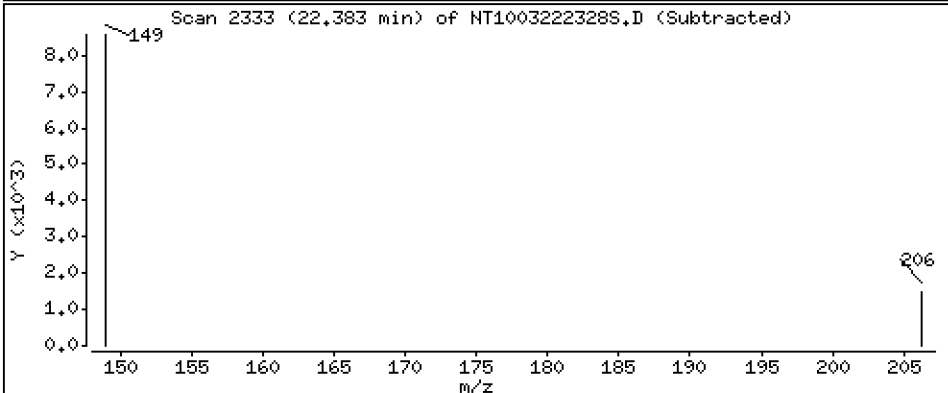
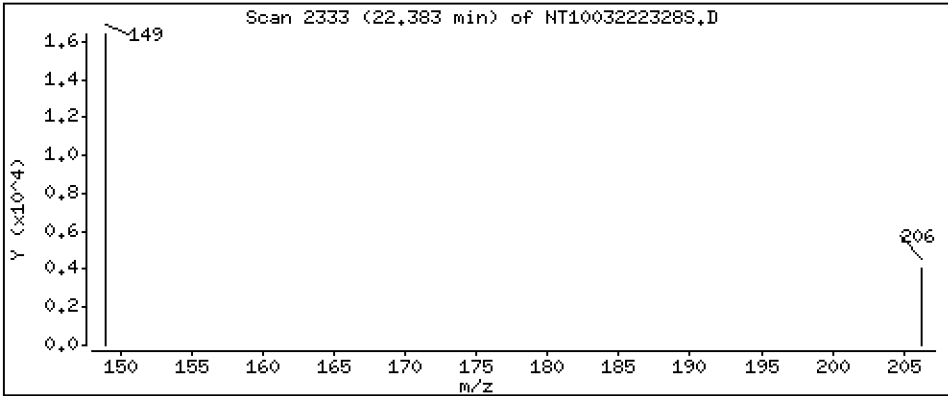
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,1952 ug/L



Date : 23-MAR-2023 10:11

Client ID:

Instrument: nt10.i

Sample Info: 23A0179-12

Volume Injected (uL): 1.0

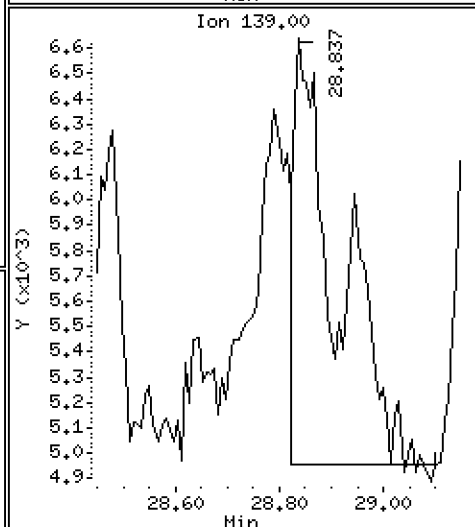
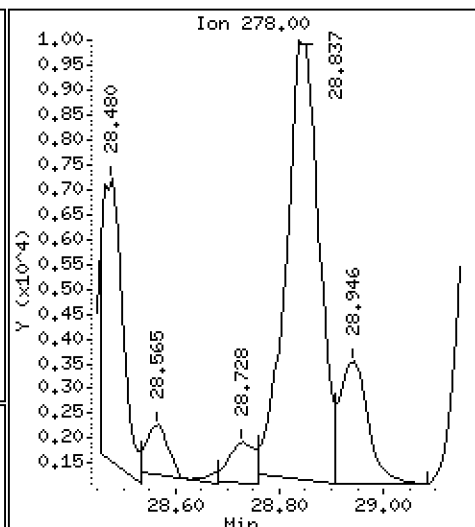
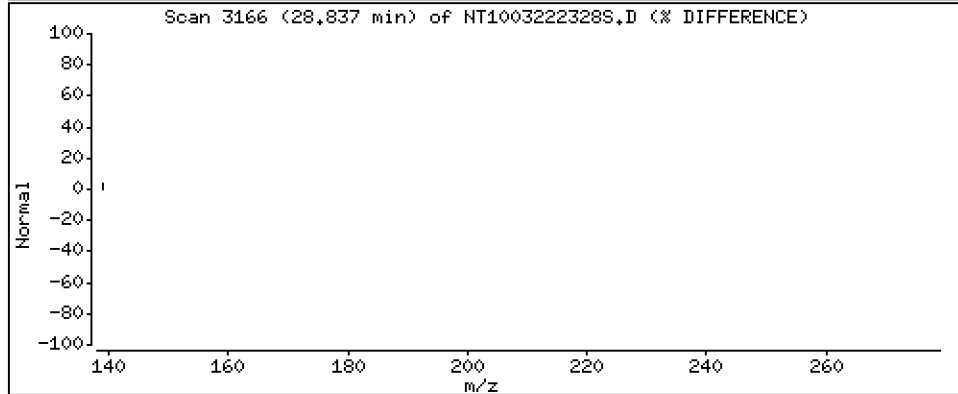
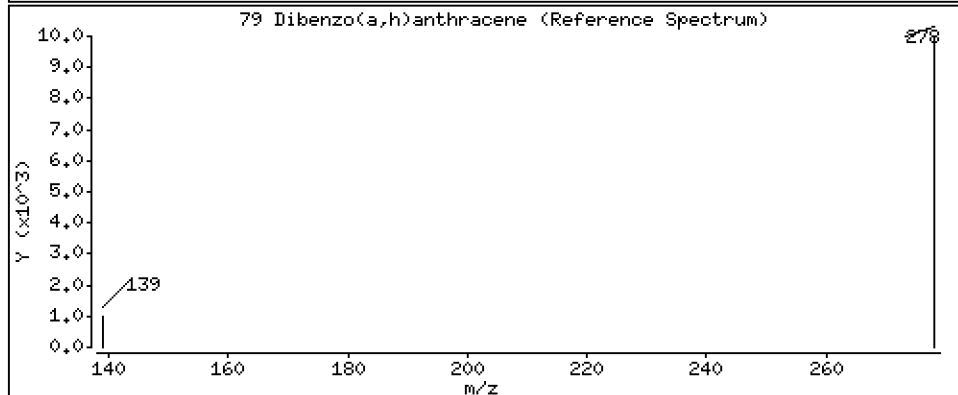
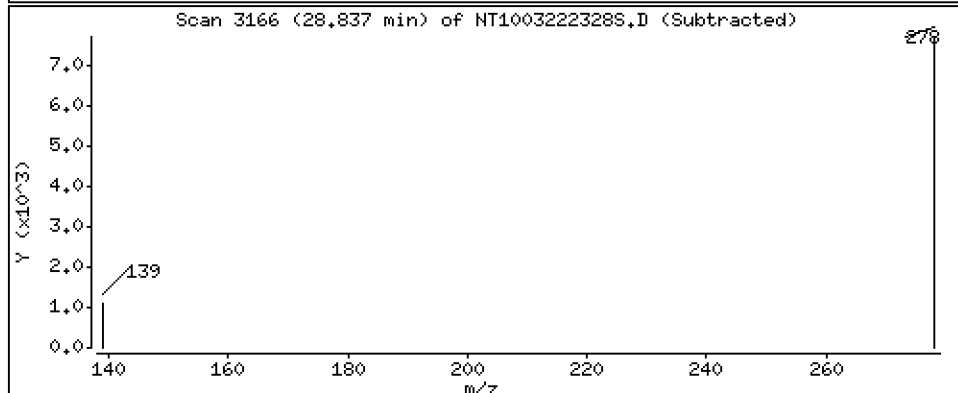
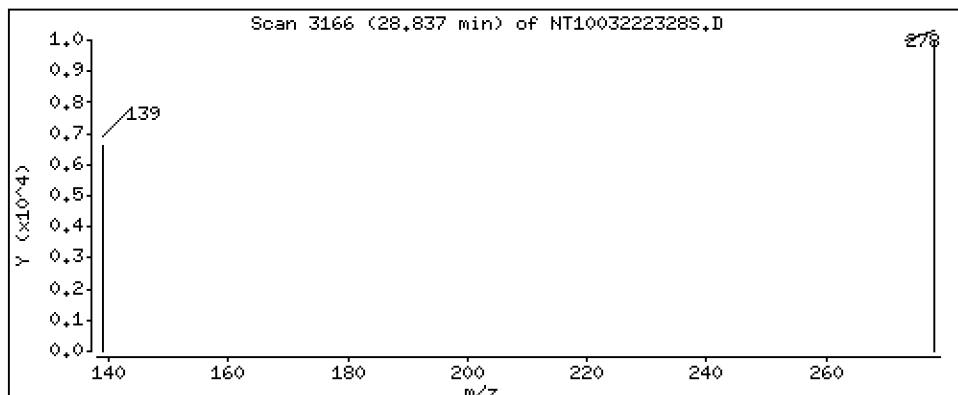
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1800 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222328S.D  
 Lab Smp Id: 23A0179-12  
 Inj Date : 23-MAR-2023 10:11 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : 23A0179-12  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Meth Date : 25-Mar-2023 16:11 yev Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 23  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSSDA.sub  
 Target Version: 4.14  
 Processing Host: ORGDATA102

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |             |
|-------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-------------|
|                               |       |     |                        |        |         |          | ON-COLUMN      | FINAL       |
|                               | MASS  |     |                        |        |         |          | (ug/mL)        | ( ug/L)     |
| \$ 1 2-Fluorophenol           | 112   |     | 6.872                  | 6.856  | (0.756) | 291915   | 5.42786        | 5.428 (R)   |
| 3 Phenol                      | 94    |     | 8.486                  | 8.471  | (0.934) | 170558   | 2.31159        | 2.312       |
| 7 1,3-Dichlorobenzene         | 146   |     | Compound Not Detected. |        |         |          |                |             |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.090                  | 9.090  | (1.000) | 177351   | 4.00000        |             |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.121                  | 9.121  | (1.003) | 1183     | 0.01775        | 0.01775 (M) |
| 11 Benzyl alcohol             | 79    |     | 9.369                  | 9.361  | (1.031) | 12398    | 0.28984        | 0.2898 (M)  |
| 12 1,2-Dichlorobenzene        | 146   |     | Compound Not Detected. |        |         |          |                |             |
| 13 2-Methylphenol             | 108   |     | Compound Not Detected. |        |         |          |                |             |
| 15 4-Methylphenol             | 108   |     | 9.874                  | 9.858  | (1.086) | 14498    | 0.27290        | 0.2729      |
| 16 N-Nitroso-di-n-propylamine | 70    |     | Compound Not Detected. |        |         |          |                |             |
| 22 2,4-Dimethylphenol         | 107   |     | 10.914                 | 10.906 | (0.942) | 911      | 0.01641        | 0.01641     |
| 24 Benzoic acid               | 105   |     | 11.025                 | 11.033 | (0.952) | 19323    | 0.63529        | 0.6353      |
| 26 1,2,4-Trichlorobenzene     | 180   |     | Compound Not Detected. |        |         |          |                |             |
| * 27 Naphthalene-d8           | 136   |     | 11.585                 | 11.577 | (1.000) | 642224   | 4.00000        |             |
| 30 Hexachlorobutadiene        | 225   |     | Compound Not Detected. |        |         |          |                |             |
| 39 Dimethylphthalate          | 163   |     | Compound Not Detected. |        |         |          |                |             |
| * 42 Acenaphthene-d10         | 162   |     | 15.206                 | 15.206 | (1.000) | 313530   | 4.00000        |             |
| 50 Diethylphthalate           | 149   |     | 16.180                 | 16.172 | (1.064) | 13682    | 0.13349        | 0.1335      |
| 54 N-Nitrosodiphenylamine     | 169   |     | Compound Not Detected. |        |         |          |                |             |
| 57 Hexachlorobenzene          | 284   |     | Compound Not Detected. |        |         |          |                |             |

| Compounds                 | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |           |
|---------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-----------|
|                           |       |     |                        |        |         |          | ON-COLUMN      | FINAL     |
|                           | MASS  |     |                        |        |         |          | (ug/mL)        | ( ug/L)   |
| =====                     | ===== |     | =====                  | =====  | =====   | =====    | =====          | =====     |
| 58 Pentachlorophenol      | 266   |     | 18.002                 | 17.995 | (0.986) | 1783     | 0.08075        | 0.08075   |
| * 59 Phenanthrene-d10     | 188   |     | 18.266                 | 18.258 | (1.000) | 665755   | 4.00000        |           |
| \$ 66 Terphenyl-d14       | 244   |     | 21.446                 | 21.438 | (0.918) | 512822   | 5.05007        | 5.050 (R) |
| 67 Butylbenzylphthalate   | 149   |     | 22.382                 | 22.375 | (0.958) | 16017    | 0.19517        | 0.1952    |
| * 69 Chrysene-d12         | 240   |     | 23.366                 | 23.350 | (1.000) | 623237   | 4.00000        |           |
| * 77 Perylene-d12         | 264   |     | 26.068                 | 26.037 | (1.000) | 675873   | 4.00000        |           |
| 79 Dibenzo(a,h)anthracene | 278   |     | 28.837                 | 28.798 | (1.106) | 39901    | 0.17999        | 0.1800    |
| 90 N-Nitrosodimethylamine | 74    |     | Compound Not Detected. |        |         |          |                |           |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT1003222328S.D  
 Lab Smp Id: 23A0179-12  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Misc Info:

Calibration Date: 23-MAR-2023  
 Calibration Time: 03:52  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 140507   | 70254      | 281014  | 177351 | 26.22 |
| 27 Naphthalene-d8   | 499190   | 249595     | 998380  | 642224 | 28.65 |
| 42 Acenaphthene-d10 | 250303   | 125152     | 500606  | 313530 | 25.26 |
| 59 Phenanthrene-d10 | 496896   | 248448     | 993792  | 665755 | 33.98 |
| 69 Chrysene-d12     | 465837   | 232919     | 931674  | 623237 | 33.79 |
| 77 Perylene-d12     | 551078   | 275539     | 1102156 | 675873 | 22.65 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.09     | 8.59     | 9.59  | 9.09   | -0.00 |
| 27 Naphthalene-d8   | 11.58    | 11.08    | 12.08 | 11.59  | 0.07  |
| 42 Acenaphthene-d10 | 15.21    | 14.71    | 15.71 | 15.21  | -0.00 |
| 59 Phenanthrene-d10 | 18.26    | 17.76    | 18.76 | 18.27  | 0.04  |
| 69 Chrysene-d12     | 23.35    | 22.85    | 23.85 | 23.37  | 0.07  |
| 77 Perylene-d12     | 26.04    | 25.54    | 26.54 | 26.07  | 0.12  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



REVIEW SUMMARY FOR FILE - NT1003222328S.D

Lab ID: 23A0179-12

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 23-MAR-2023 10:11

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT CCV RRT DELTA COMPOUND

---

NONE

RRT check based on Ccal File: SIM.b/NT1003222318S.D

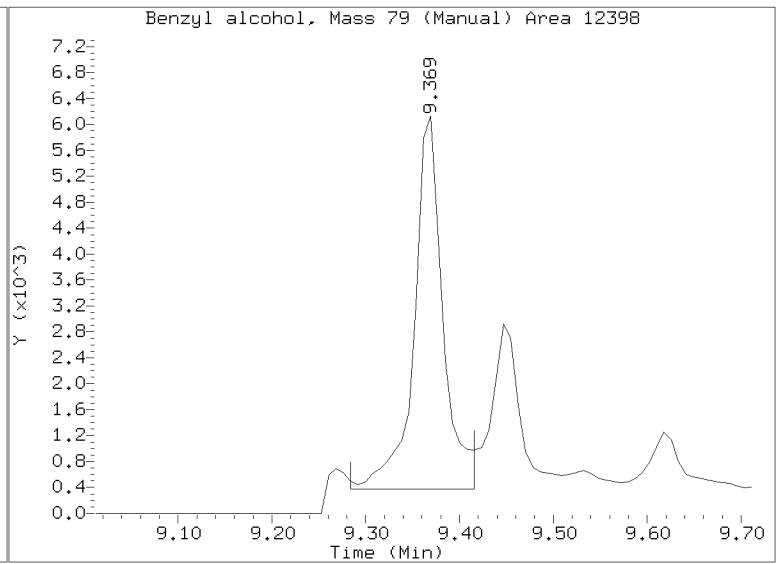
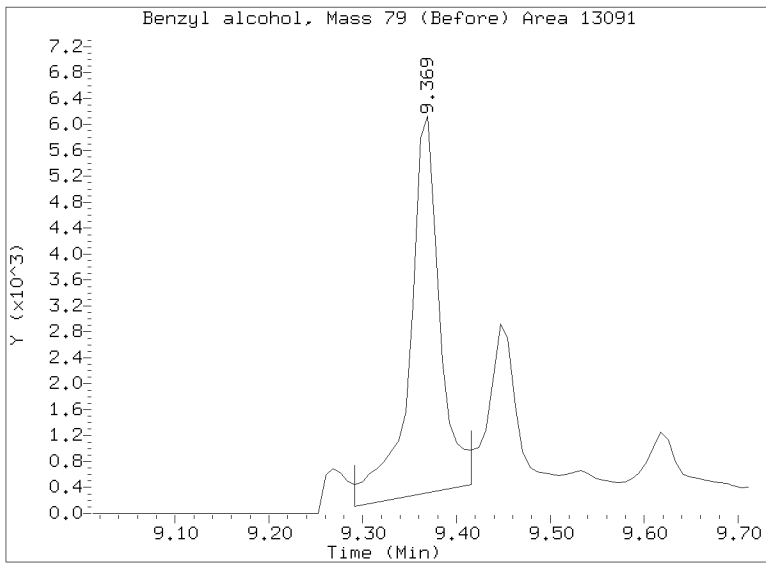
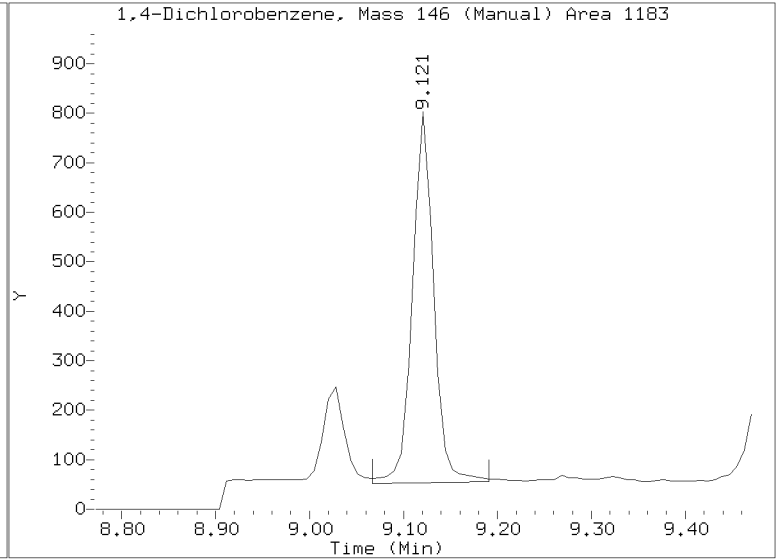
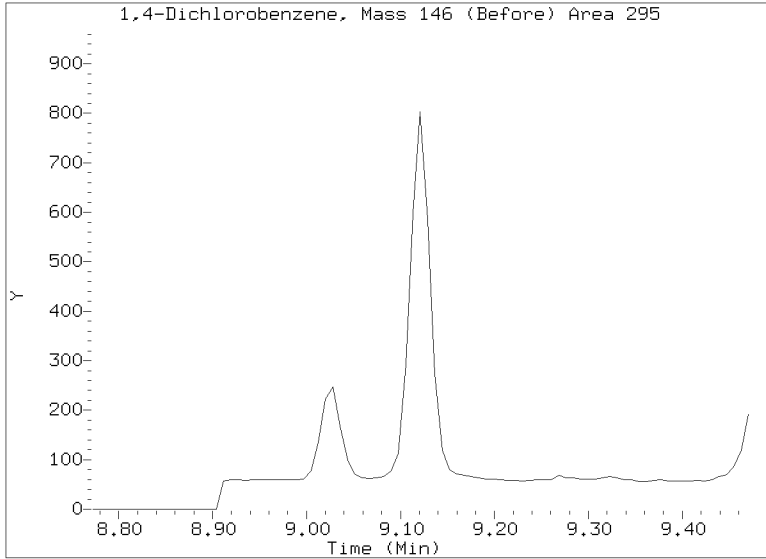
On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222328S.D  
Injection Date: 23-MAR-2023 10:11  
Lab ID:23A0179-12 Client ID:  
Report Date: 03/25/2023 16:12





## PREPARATION BATCH SUMMARY

Laboratory:

SDG:

Client:

Project:

Batch:

Batch Matrix:

Preparation:

| SAMPLE NAME | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|-------------|---------------|-------------|---------------|--------------|
|             |               |             |               |              |





WO Comments

23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)  
23A0180: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Analysis: 8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf)

| Lab Number & Container | % Solids | Initial (g)          |        | (REQ) GPC C/U (1:1) 1 2 3 | Water Wash 1mL | Final Effective Vol (mL) | Vol (mL) to Lab | Extraction Comments                |
|------------------------|----------|----------------------|--------|---------------------------|----------------|--------------------------|-----------------|------------------------------------|
|                        |          | Target Dry: 10 (Wet) | Actual |                           |                |                          |                 |                                    |
| 23A0179-01RE1 A        | 59.0     | (16.96)              | 16.98  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-02RE1 A        | 66.2     | (15.10)              | 15.11  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-03RE1 A        | 58.6     | (17.07)              | 17.10  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-04RE1 A        | 53.7     | (18.61)              | 18.63  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-05RE1 A        | 67.4     | (14.84)              | 14.88  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-06RE1 A        | 54.0     | (18.53)              | 18.61  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-07RE1 A        | 74.6     | (13.41)              | 13.46  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-08RE1 A        | 61.4     | (16.30)              | 16.39  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-09RE1 A        | 53.0     | (18.86)              | 18.88  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-10RE1 A        | 49.3     | (20.30)              | 20.35  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-11RE1 A        | 49.6     | (20.15)              | 20.18  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-12RE1 A        | 49.4     | (20.26)              | 20.27  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0180-01RE1 A        | 51.4     | (19.47)              | 19.47  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0180-02RE1 A        | 53.0     | (18.86)              | 18.93  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0180-03RE1 A        | 54.3     | (18.41)              | 18.41  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0180-04RE1 A        | 56.1     | (17.83)              | 17.88  | (1:1)                     | 1mL            | 1                        | 0.5             | From BLA0557 by CTO on 16-Mar-2023 |

Batch QC

| Lab Number   | % Solids | Initial (g)          |        | (REQ) GPC C/U (1:1) 1 2 3 | Water Wash 1mL | Final Effective Vol (mL) | Vol (mL) to Lab | Extraction Comments                      |
|--------------|----------|----------------------|--------|---------------------------|----------------|--------------------------|-----------------|--|
|              |          | Target Dry: 10 (Wet) | Actual |                           |                |                          |                 |  |
| BLC0442-BLK1 | 100.0    | (10.00)              | 10.00  | (1:1)                     | 1mL            | 1                        | 0.5             | Use 5g Neutral Sodium Sulfate for Blanks |
| BLC0442-BS1  | 100.0    | (10.00)              | 10.00  | (1:1)                     | 1mL            | 1                        | 0.5             | Use 5g Neutral Sodium Sulfate for Blanks |



Batch: BLC0442

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:AOC4 List)

**WO Comments**  
 23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E>  
 <H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)  
 23A0180: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E>  
 <H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

|              |       |                           |              |       |     |   |     |  |
|--------------|-------|---------------------------|--------------|-------|-----|---|-----|--|
| BLC0442-BSD1 | 100.0 | (10.00)                   | <u>16.60</u> | (1:1) | 1mL | 1 | 0.5 | Use 5g Neutral Sodium Sulfate for Blanks |
| BLC0442-MS1  | 74.6  | (13.41)                   | <u>13.41</u> | (1:1) | 1mL | 1 | 0.5 | Use 23A0179-07RE1                        |
| BLC0442-MSD1 | 74.6  | (13.41)                   | <u>13.41</u> | (1:1) | 1mL | 1 | 0.5 | Use 23A0179-07RE1                        |
| BLC0442-SRM1 | 100.0 | <del>(10.00)</del> (1.00) | <u>1.00</u>  | (1:1) | 1mL | 1 | 0.5 | Use K003477                              |

+1g DI WATER

Client ID: 03/17/23 Date: 3/17/23 Preparation Reviewed By: GO Date: 3/21/23 Extraction Date and Time: 03/17/23 11:16





Batch: BLC0442

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:AOC4 List)

**WO Comments**  
 23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E>  
 <H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)  
 23A0180: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E>  
 <H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

| Prep Steps   | Reagents Used  | Surrogates & Spike Standards Used  |
|--|--|--|
| <b>Microwave</b><br>CT 2 3<br>3/17/23<br>Analyst/Date  | <b>Station/Reagent</b><br>Microwave<br>Analyst: <i>CT</i> Date: <i>3/17/23</i><br>Anhydrous Sodium Sulfate<br>1:1 Methylene Chloride/Acetone<br>Methylene Chloride<br>Pre-Deactivated Glass Wool | <b>Type</b><br>Surrogate<br>100/150µg/mL<br>Full List Spike (Freezer)<br>100µg/mL<br>Base Spike<br>200µg/mL<br>Acid Spike<br>100/200µg/mL  |
| <b>Pre-GPC KD</b><br>100°C<br>Exchange to Hexane (add 10 mL to KD)<br>0 2 4 5 6<br>TWC 3/18/23<br>Analyst/Date | <b>Standard ID</b><br>L002484<br>L002244<br>L002621<br>L0041923<br>Pre GPC KD<br>Analyst: <i>TWC</i> Date: <i>3/18/23</i><br>Pre-Deactivated Glass Wool  | <b>Vial ID / Standard ID</b><br>A L001153<br>Exp Date: <i>8/1/2423</i><br>7 L001812 (V)<br>Exp Date: <i>2/4/2423</i><br>56 L001812 (V)<br>Exp Date: <i>3/24/2423</i><br>38 L001812 (V)<br>Exp Date: <i>3/24/2423</i> |
| <b>TurboVap Pre GPC</b><br>1 2 3 4 5<br>TWC 3/18/23<br>Analyst/Date  | Anhydrous Sodium Sulfate<br>Methylene Chloride<br>Hexane<br>GPC Filter Prep<br>Analyst: <i>TWC</i> Date: <i>3/18/23</i>  | <b>Vol uL</b><br>50µL<br>50µL<br>50µL<br>50µL  |
| <b>Post GPC KD</b><br>80-85°C<br>1 0 2 4 5 6<br>LW/SA 3-21<br>Analyst/Date                                     | Methylene Chloride<br>GPC Filter<br>GPC<br>Analyst: <i>LW/SA</i> Date: <i>3/20/23</i>  | <b>Analyst</b><br><i>CT</i><br><i>CT</i><br><i>CT</i><br><i>CT</i>   |
| <b>TurboVap</b><br>1 2 3 4 5<br>CTO 3/21/23<br>Analyst/Date  | Methylene Chloride<br>GPC Calibration File<br>Post GPC KD<br>Analyst: <i>LW/SA</i> Date: <i>3-21-23</i>  | <b>Witness</b><br><i>CT</i><br><i>CT</i><br><i>CT</i><br><i>CT</i>   |
| <b>Water Wash</b><br>CTO 3/21/23<br>Analyst/Date   | Methylene Chloride<br>Vialing<br>Analyst: <i>CTO</i> Date: <i>3/21/23</i><br>Methylene Chloride  |  |

**MANUALLY ENTER EXPIRATION DATES!**

(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.

If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator in the Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).



Extraction Parameter: SWA Extraction Batch BLC0442 RE

Total Solids Batch: N/A Work Order(s): 23A0179, 180

| Screens: Soil/Sediment/Solid/Other:  | Analyst/Date       |
|--|--------------------|
| <input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)=  |                    |
| <input type="checkbox"/> Standing Water Decanted (Not shared)=   |                    |
| <input type="checkbox"/> Standing Water Homogenized (Shared samples)=  |                    |
| <input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=  |                    |
| <input type="checkbox"/> Rocks (%+size)?   |                    |
| <input type="checkbox"/> Organics (Leaves/sticks/grass)=   |                    |
| <input checked="" type="checkbox"/> Oily, obvious fuel/sulfur odors= <u>23A0179</u> <u>23A0180</u><br><u>01-12</u> <u>01-04</u>                          | <u>03/17/23</u>    |
| <input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=  |                    |
| <input checked="" type="checkbox"/> Previously Frozen = <u>23A0179</u> <u>23A0180</u><br><u>01-12</u> <u>=01-04</u>                                      | <u>03/17/23</u>    |
| <input type="checkbox"/> Other (Details)=  |                    |
| <b>Aqueous:</b>  |                    |
| <input checked="" type="checkbox"/> No Anomalies   |                    |
| <input type="checkbox"/> Turbid/Color=   |                    |
| <input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)  |                    |
| <input type="checkbox"/> Emulsions (%)=  |                    |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors=  |                    |
| <input type="checkbox"/> Other (Details)=  |                    |
| <input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=   |                    |
| <input checked="" type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).   | <u>TWC 3/18/23</u> |
| <u>179-04 = Sample over-pressurized while kd-ing causing Syngas to fly off and some of sample was lost (amount lost is unclear even for an estimate)</u> |                    |
| <input checked="" type="checkbox"/> Share Samples Y/N  | <u>03/17/23</u>    |
| <input checked="" type="checkbox"/> Multiple Jars Y/N  | <u>03/17/23</u>    |
| <input type="checkbox"/> Sample Pre-Screens indicate analyte activity=   |                    |
| <input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=   |                    |





Batch: BLC0442 **RE**

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:AOC4 List)

Matrix: Solid

Date Prepared: **03/17/23**

Balance ID: **B146462614**

Set Up By: **CTO 3/16/23**

From BLA0557 on 3/16/2023 by CTO

**WO Comments**  
 23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>  
 <H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)  
 23A0180: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>  
 <H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

**The following standards may be missing from this batch!**

| Designator | Description         |
|------------|---------------------|
| 39         | Benzidine Spike     |
| QLS 14     | QLS Spike (Freezer) |



**Batch: BLC0442**

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:AOC4 List)

**WO Comments**

23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM 1009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)  
23A0180: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM 1009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

**Prep Instructions**

**SPECIAL INSTRUCTIONS:**

1. Weigh into beakers-lightly dry with Sodium Sulfate.
2. Transfer to microwave vessel.
3. Add DCM ONLY to the vessels (until solvent is 3 inches above soil layer after homogenization).
4. Add surr/spike.
5. Microwave on appropriate power setting determined by # of samples.
6. After microwave-re-homogenize while hot then let cool 10-15 min in Refrigerator 05. Re-homogenize while cool.
7. Decant DCM into Erlenmeyer flask with a funnel containing pre-deactivated glasswool.
8. Rinse with DCM
9. Microwave a 2nd time using 1:1 DCM/ACE.
10. Let cool and decant the solvent then empty the soil into the funnel and rinse with DCM.
11. KD: Add 10 mL Hexane directly to extract in the KD.
12. GPC REQUIRED 100°C water bath (CLP) KD to 5mL.
13. Vialers to take 1:5 Split Pre- GPC.
14. (After GPC): KD at 80°C.
15. TurboVap to 1mL in DCM.
16. WATER WASH REQUIRED:
  - 16a. Vial 1mL of all extracts in 2mL amber vials in DCM.
  - 16b. Add ~0.5mL DI water and vortex for ~5 seconds each.
  - 16c. Centrifuge extracts for 5 minutes at 1500-2000rpm.
  - 16d. Transfer and vial 0.5mL to new 2mL amber vials (Avoiding collecting water in syringe and cleaning syringe with Acetone and DCM between each vial).
17. Archive water washed vials and deliver new vials to GC Department for analysis.

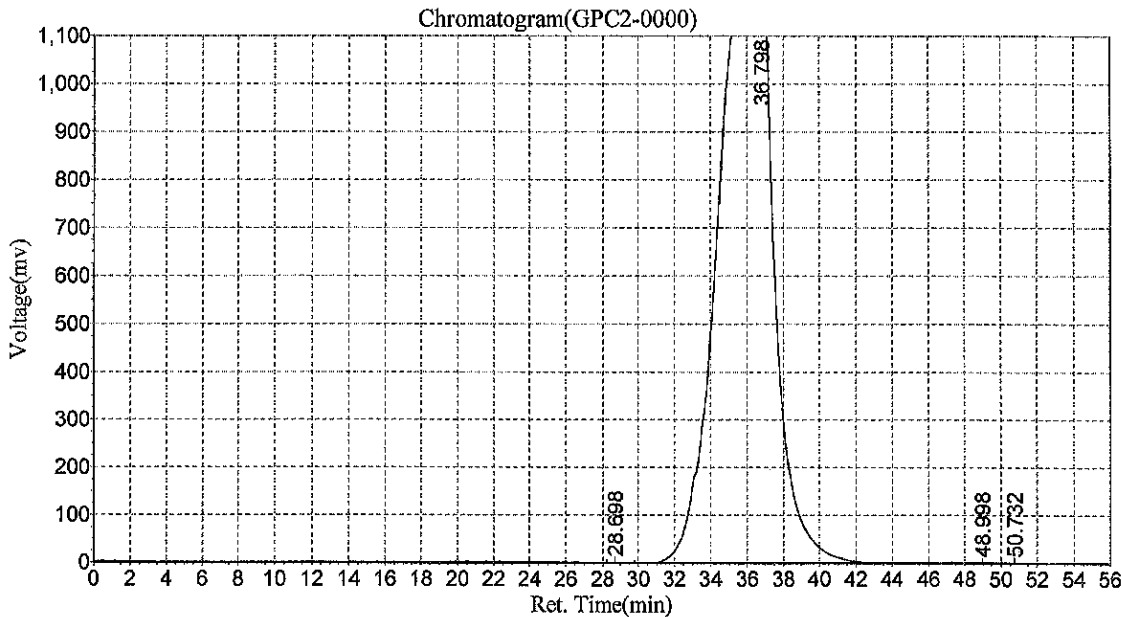
A. Need Total Solids Y /  N

B. Archive/Freeze  Y /  N

*BLK1*  
**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-20,2:01:58 PM  
Data File:c:\n2000\data\gpc2\032023\GPC2-0000  
Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
Date/Time:2023-03-20,2:01:58 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 28.698   | 2386.429    | 128857.344    | 0.0475  |
| 2            |         | 36.798   | 1249813.875 | 271069312.000 | 99.8549 |
| 3            |         | 48.998   | 1236.742    | 120339.891    | 0.0443  |
| 4            |         | 50.732   | 1735.484    | 144730.859    | 0.0533  |
| <b>Total</b> |         |          | 1255172.530 | 271463240.094 | 100.000 |

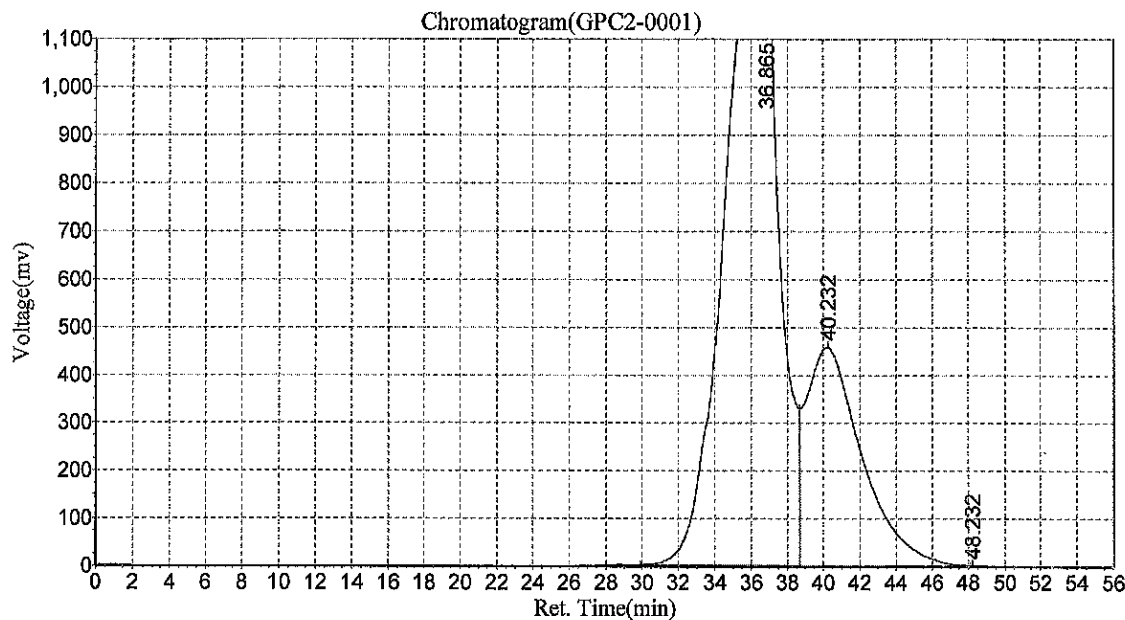
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

BS1  
**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-20,2:59:45 PM  
Data File:c:\n2000\data\gpc2\032023\GPC2-0001  
Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
Date/Time:2023-03-20,2:59:46 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 36.865   | 1247080.000 | 272841920.000 | 73.5257 |
| 2            |         | 40.232   | 458391.156  | 98079440.000  | 26.4306 |
| 3            |         | 48.232   | 2981.619    | 162174.125    | 0.0437  |
| <b>Total</b> |         |          | 1708452.775 | 371083534.125 | 100.000 |

**Ingredient Table**

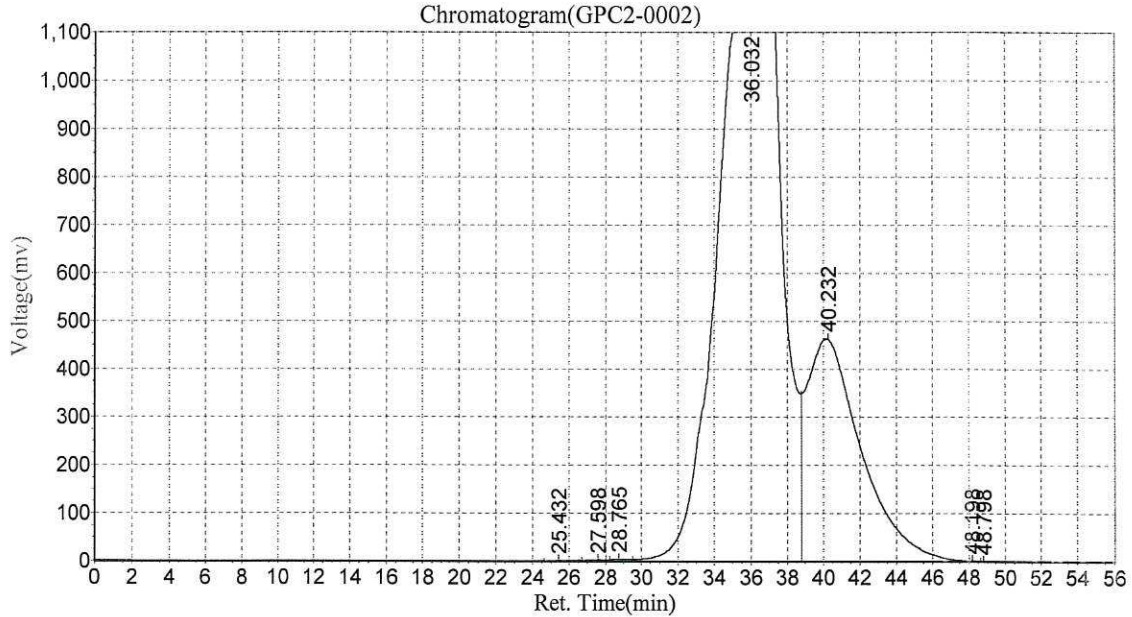
| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

BSP1

**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-20,3:57:27 PM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0002  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-20,3:57:28 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 25.432   | 2696.384    | 119099.922    | 0.0294  |
| 2            |         | 27.598   | 5152.632    | 317832.719    | 0.0785  |
| 3            |         | 28.765   | 6547.766    | 475432.563    | 0.1175  |
| 4            |         | 36.032   | 1248679.750 | 305185728.000 | 75.4120 |
| 5            |         | 40.232   | 465755.688  | 98314256.000  | 24.2936 |
| 6            |         | 48.198   | 4011.195    | 135911.688    | 0.0336  |
| 7            |         | 48.798   | 3280.464    | 143139.766    | 0.0354  |
| <b>Total</b> |         |          | 1736123.877 | 404691400.656 | 100.000 |

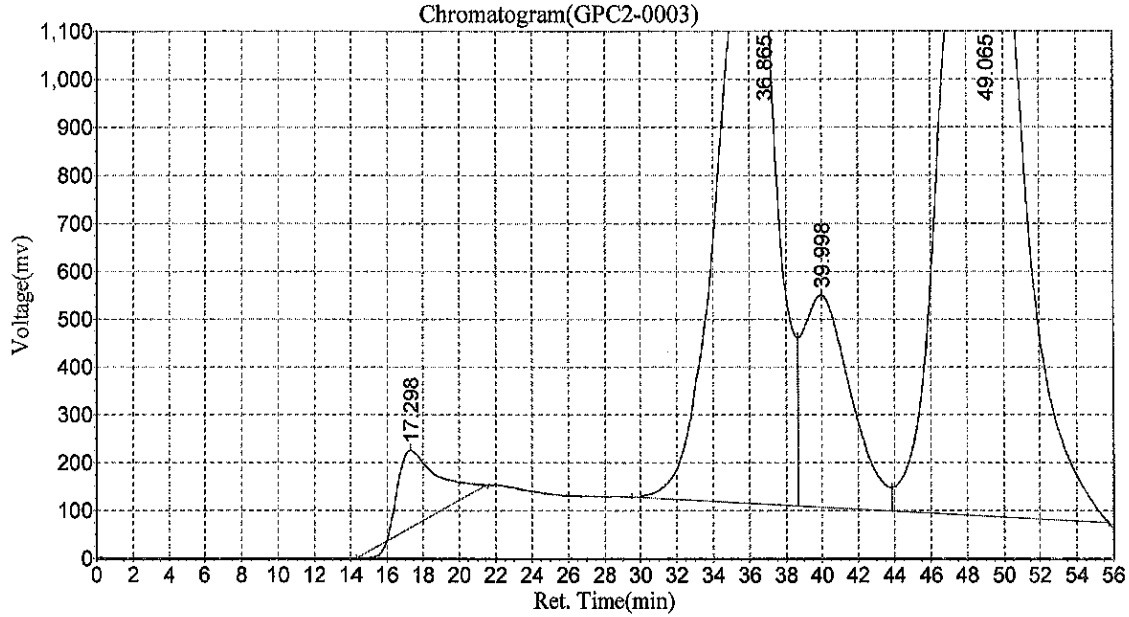
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

*MJI*  
**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-20,4:55:10 PM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0003  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-20,4:55:10 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.298   | 163019.422  | 23469964.000  | 3.0047  |
| 2            |         | 36.865   | 1135126.250 | 272298016.000 | 34.8610 |
| 3            |         | 39.998   | 443069.094  | 81847288.000  | 10.4785 |
| 4            |         | 49.065   | 1161551.125 | 403480256.000 | 51.6557 |
| <b>Total</b> |         |          | 2902765.891 | 781095524.000 | 100.000 |

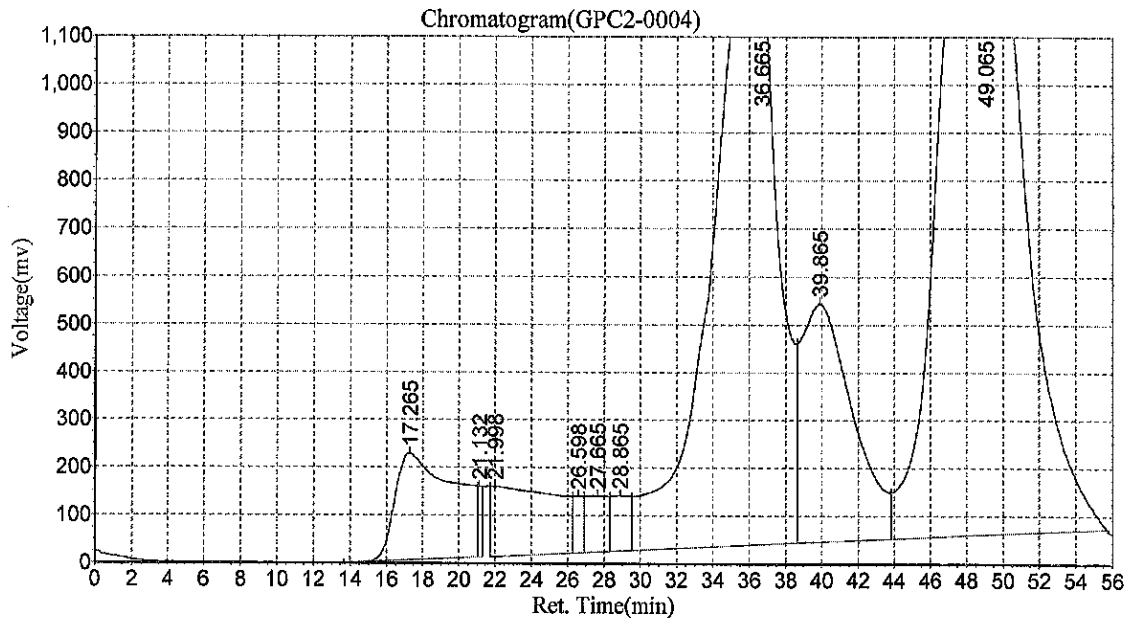
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

*MSD*  
**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-20,5:52:52 PM  
Data File:c:\n2000\data\gpc2\032023\GPC2-0004  
Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
Date/Time:2023-03-20,5:52:52 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.265   | 224383.953  | 51508632.000  | 5.4540  |
| 2            |         | 21.132   | 147925.859  | 2066188.875   | 0.2188  |
| 3            |         | 21.998   | 146094.359  | 35864208.000  | 3.7975  |
| 4            |         | 26.598   | 117965.445  | 4709386.500   | 0.4987  |
| 5            |         | 27.665   | 116690.898  | 9762018.000   | 1.0337  |
| 6            |         | 28.865   | 114923.656  | 8224336.000   | 0.8708  |
| 7            |         | 36.665   | 1205647.125 | 314043680.000 | 33.2528 |
| 8            |         | 39.865   | 496703.469  | 96731880.000  | 10.2426 |
| 9            |         | 49.065   | 1187798.625 | 421501184.000 | 44.6311 |
| <b>Total</b> |         |          | 3758133.391 | 944411513.375 | 100.000 |

**Ingredient Table**

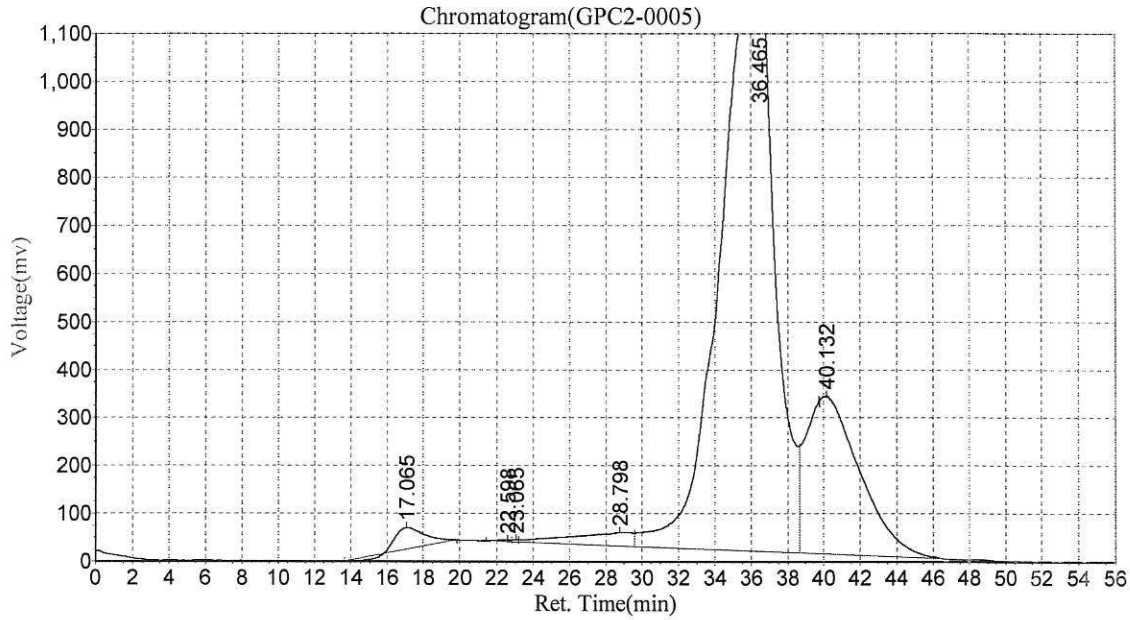
| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |



*SEM 1*  
**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-20,6:50:39 PM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0005  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-20,6:50:39 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.065   | 46099.746   | 4760543.000   | 1.4296  |
| 2            |         | 22.598   | 3937.567    | 208280.641    | 0.0625  |
| 3            |         | 23.065   | 4928.899    | 111123.672    | 0.0334  |
| 4            |         | 28.798   | 28887.830   | 6873306.000   | 2.0641  |
| 5            |         | 36.465   | 1200763.625 | 253297968.000 | 76.0653 |
| 6            |         | 40.132   | 329563.750  | 67749696.000  | 20.3452 |
| <b>Total</b> |         |          | 1614181.417 | 333000917.313 | 100.000 |

**Ingredient Table**

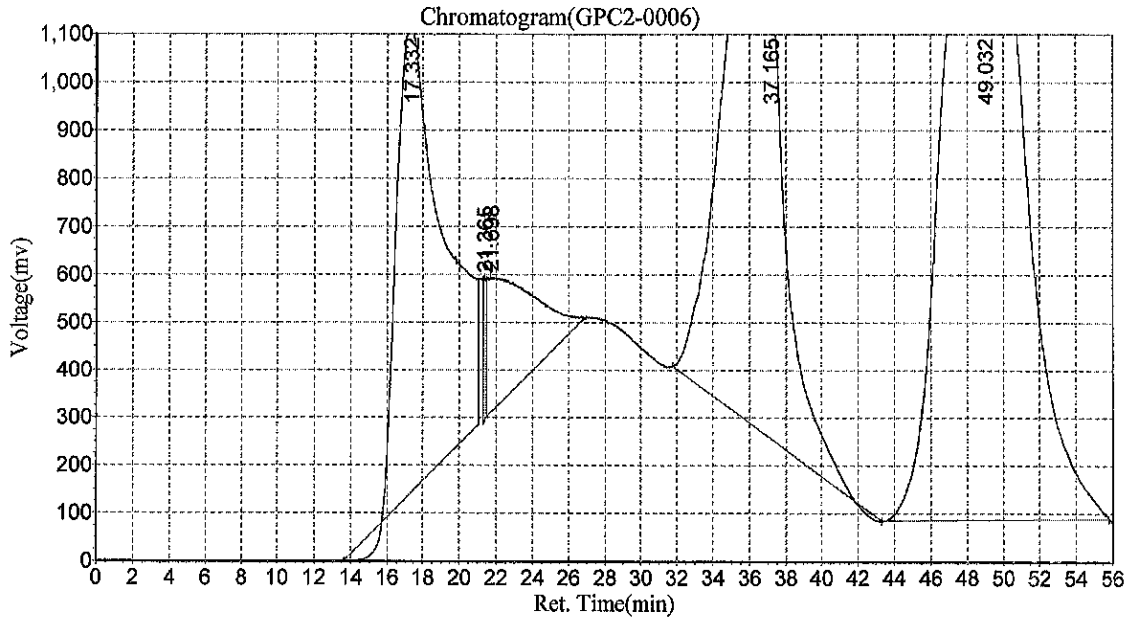
| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |



**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-20,7:48:21 PM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0006  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:°NRB  
 Date/Time:2023-03-20,7:48:21 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.332   | 979148.750  | 170481424.000 | 19.5358 |
| 2            |         | 21.365   | 295223.969  | 3518400.750   | 0.4032  |
| 3            |         | 21.698   | 283869.500  | 47592488.000  | 5.4537  |
| 4            |         | 37.165   | 992281.188  | 246763088.000 | 28.2770 |
| 5            |         | 49.032   | 1163002.125 | 404307264.000 | 46.3303 |
| <b>Total</b> |         |          | 3713525.531 | 872662664.750 | 100.000 |

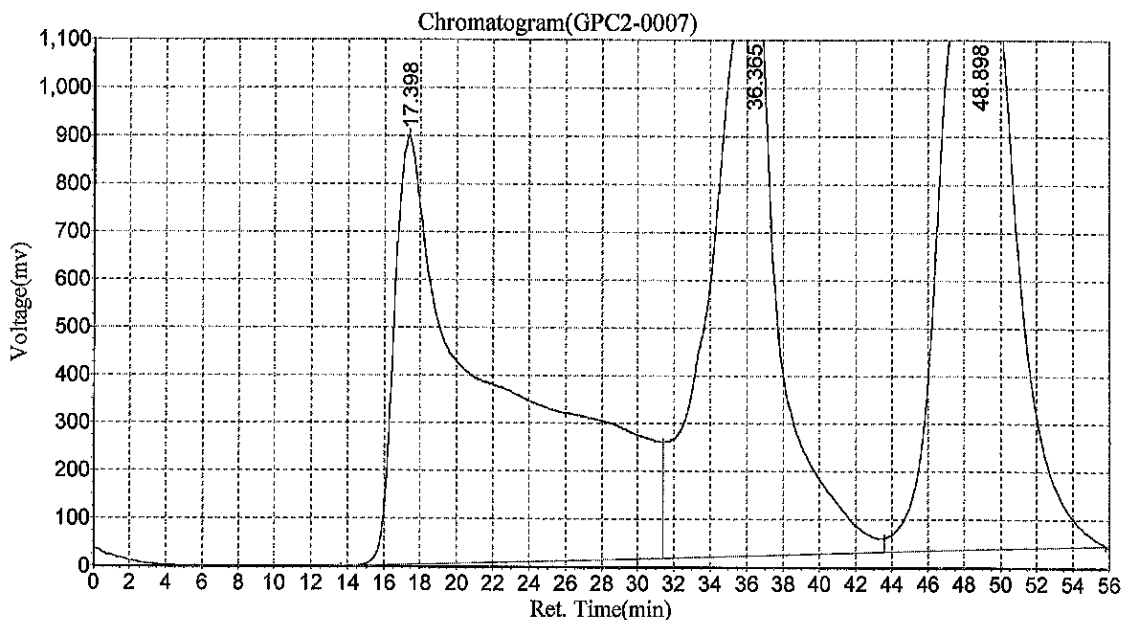
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-20,8:46:03 PM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0007  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-20,8:46:04 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area           | Conc    |
|--------------|---------|----------|-------------|----------------|---------|
| 1            |         | 17.398   | 898157.438  | 362966528.000  | 34.7954 |
| 2            |         | 36.365   | 1210978.125 | 317889504.000  | 30.4742 |
| 3            |         | 48.898   | 1210915.000 | 362287808.000  | 34.7304 |
| <b>Total</b> |         |          | 3320050.563 | 1043143840.000 | 100.000 |

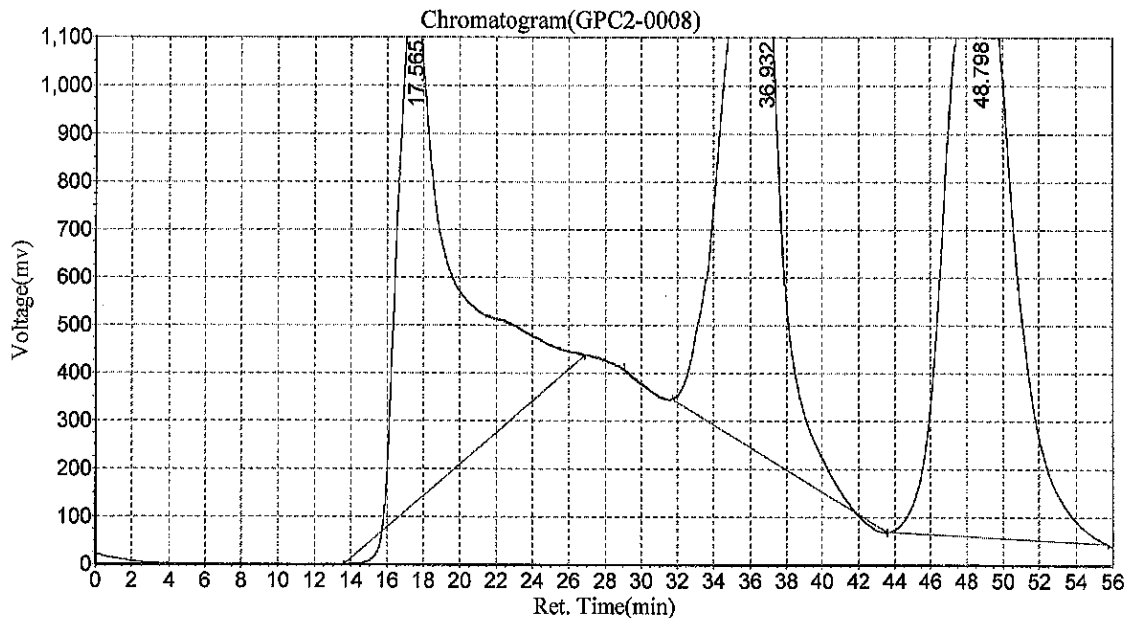
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLC0442/423/23A0179/180/23C0174** <sup>03</sup>

Date:2023-03-20,9:43:44 PM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0008  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-20,9:43:45 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.565   | 1083207.875 | 226174944.000 | 28.7724 |
| 2            |         | 36.932   | 1022889.500 | 243226224.000 | 30.9415 |
| 3            |         | 48.798   | 1181953.750 | 316682464.000 | 40.2861 |
| <b>Total</b> |         |          | 3288051.125 | 786083632.000 | 100.000 |

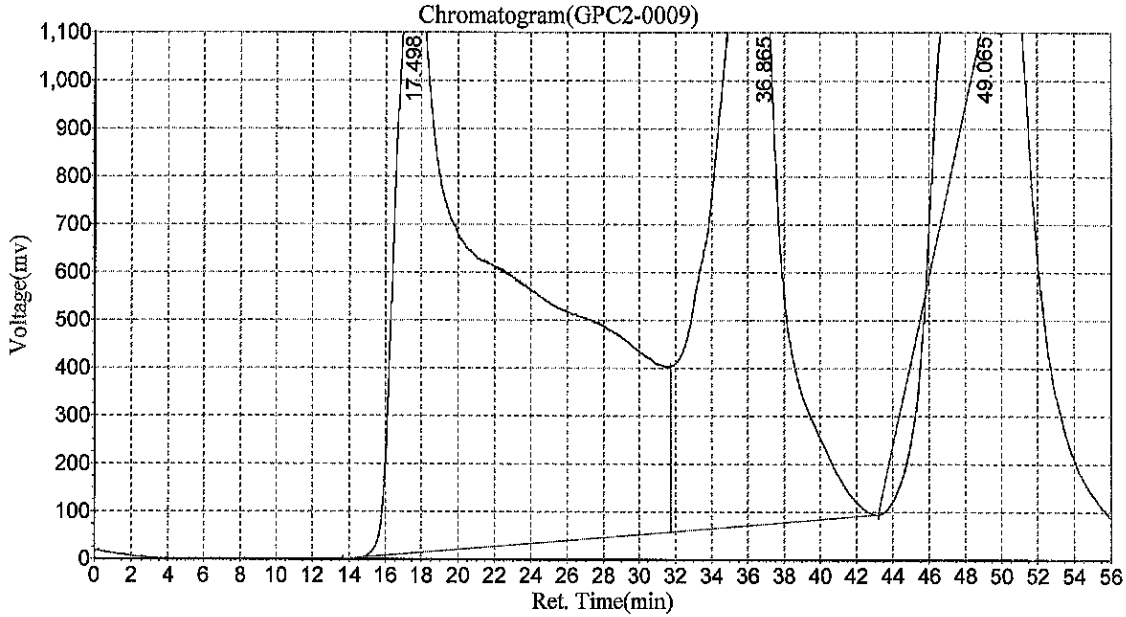
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-20,10:41:32 PM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0009  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-20,10:41:33 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.498   | 1238220.375 | 561533952.000 | 59.0078 |
| 2            |         | 36.865   | 1173152.625 | 348418464.000 | 36.6129 |
| 3            |         | 49.065   | 118636.492  | 41674752.000  | 4.3793  |
| <b>Total</b> |         |          | 2530009.492 | 951627168.000 | 100.000 |

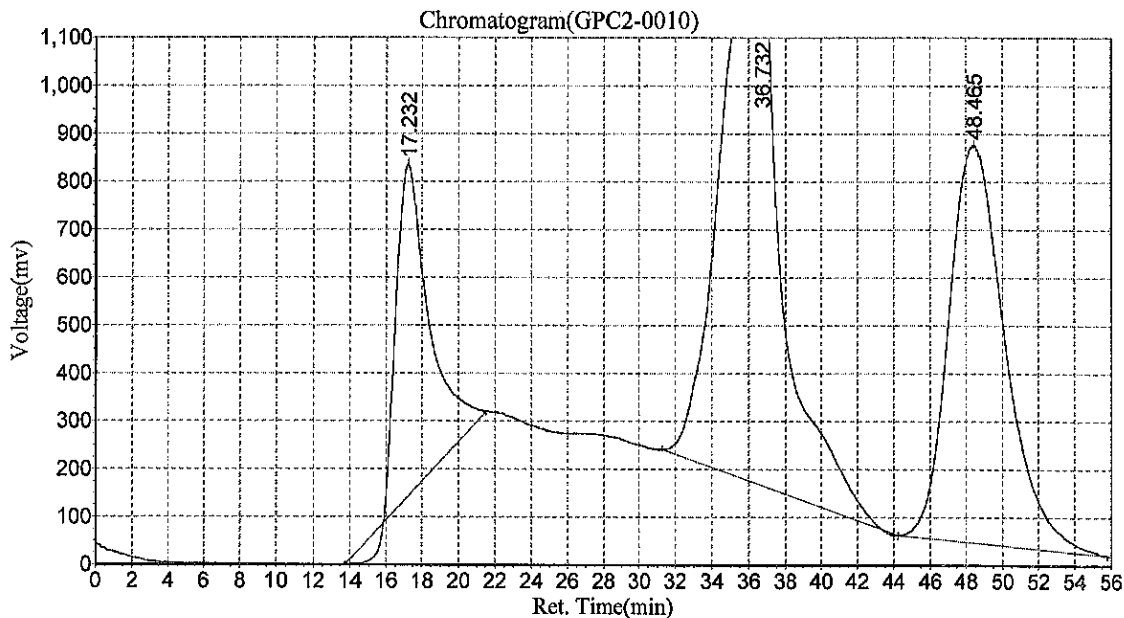
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-20,11:39:14 PM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0010  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-20,11:39:14 PM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.232   | 694219.438  | 84725520.000  | 16.1240 |
| 2            |         | 36.732   | 1080109.125 | 261837552.000 | 49.8300 |
| 3            |         | 48.465   | 827919.750  | 178898656.000 | 34.0460 |
| <b>Total</b> |         |          | 2602248.313 | 525461728.000 | 100.000 |

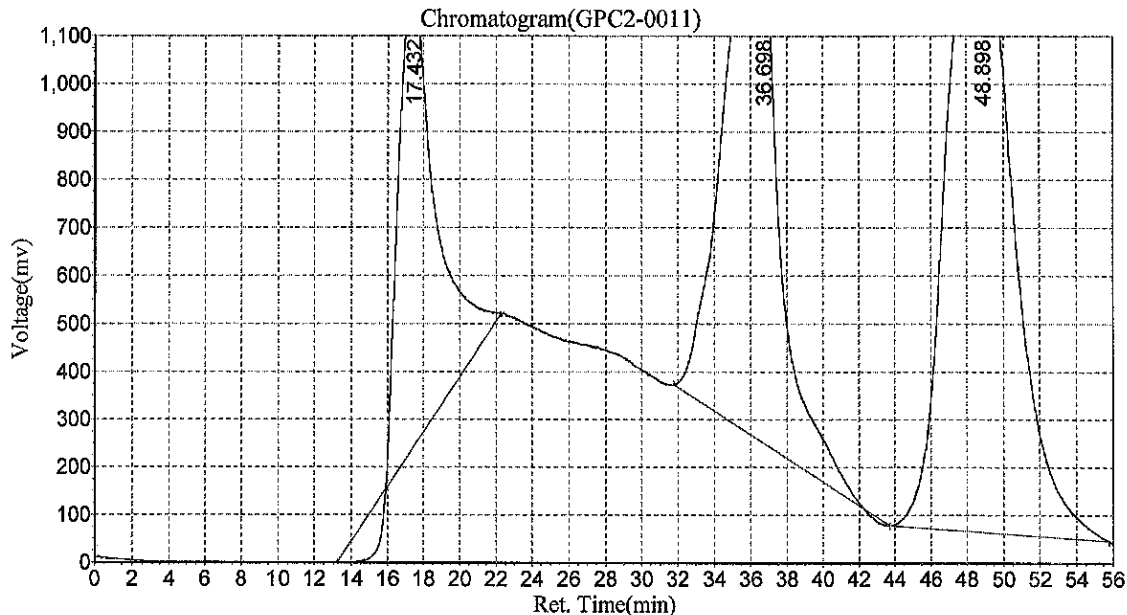
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-21,12:36:57 AM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0011  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-21,12:36:57 AM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.432   | 956759.750  | 130376792.000 | 19.2410 |
| 2            |         | 36.698   | 995375.375  | 227247792.000 | 33.5372 |
| 3            |         | 48.898   | 1177791.875 | 319975264.000 | 47.2219 |
| <b>Total</b> |         |          | 3129927.000 | 677599848.000 | 100.000 |

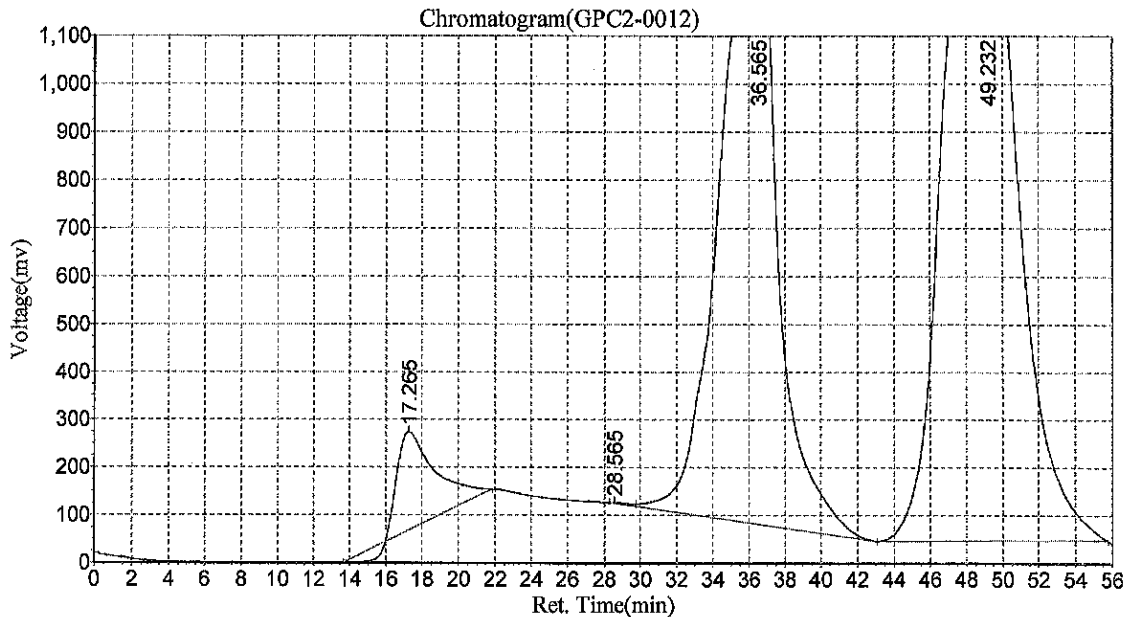
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-21,1:34:38 AM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0012  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-21,1:34:39 AM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.265   | 206298.266  | 28425322.000  | 4.1575  |
| 2            |         | 28.565   | 1922.153    | 276825.531    | 0.0405  |
| 3            |         | 36.565   | 1164358.750 | 279324448.000 | 40.8542 |
| 4            |         | 49.232   | 1203026.000 | 375683552.000 | 54.9478 |
| <b>Total</b> |         |          | 2575605.169 | 683710147.531 | 100.000 |

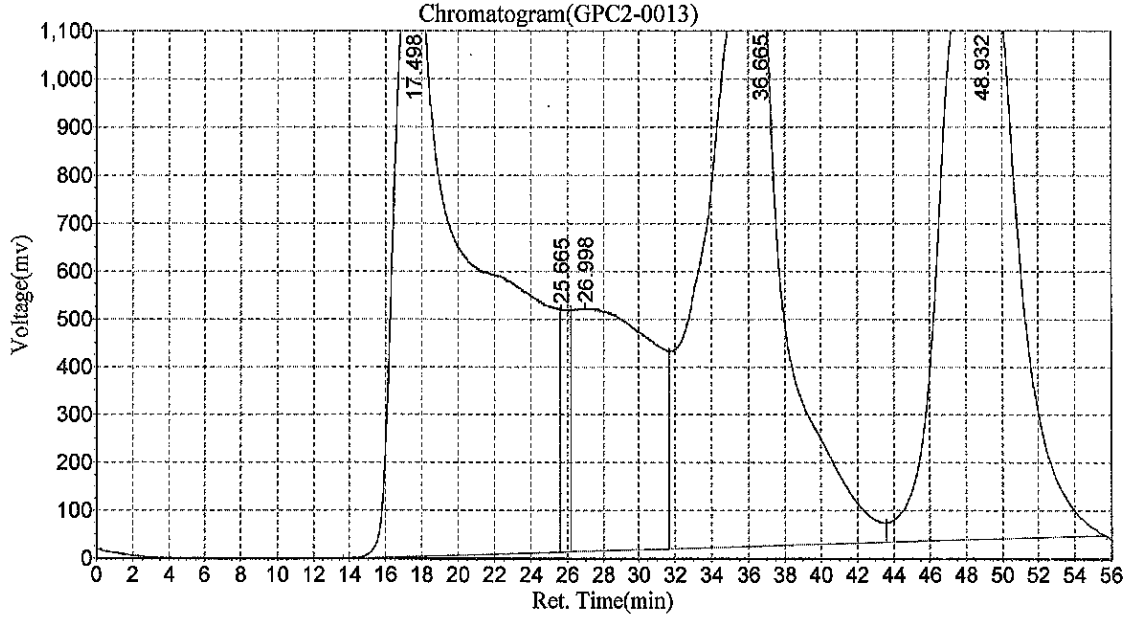
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLC0442/423/23A0179/180/23C0174** <sup>-08</sup>

Date:2023-03-21,2:32:26 AM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0013  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-21,2:32:27 AM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area           | Conc    |
|--------------|---------|----------|-------------|----------------|---------|
| 1            |         | 17.498   | 1247212.625 | 412758112.000  | 31.1969 |
| 2            |         | 25.665   | 506934.438  | 18199000.000   | 1.3755  |
| 3            |         | 26.998   | 506449.750  | 155369360.000  | 11.7431 |
| 4            |         | 36.665   | 1219960.625 | 377302816.000  | 28.5172 |
| 5            |         | 48.932   | 1207576.125 | 359443488.000  | 27.1673 |
| <b>Total</b> |         |          | 4688133.563 | 1323072776.000 | 100.000 |

**Ingredient Table**

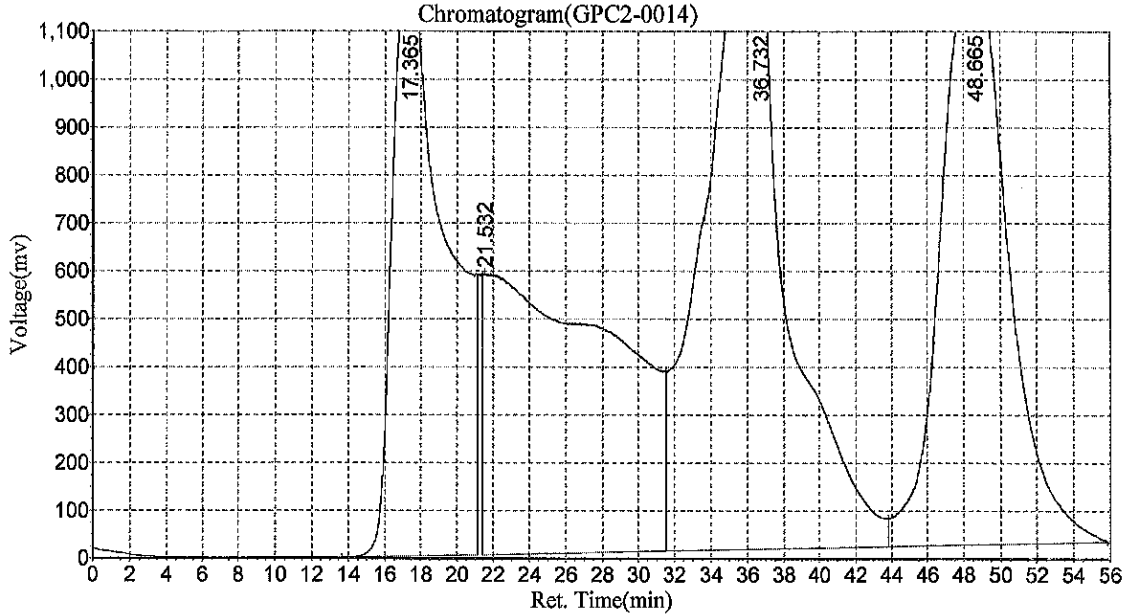
| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |



**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-21,3:30:08 AM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0014  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-21,3:30:08 AM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area           | Conc    |
|--------------|---------|----------|-------------|----------------|---------|
| 1            |         | 17.365   | 1245955.750 | 254981072.000  | 20.2470 |
| 2            |         | 21.532   | 585070.313  | 292012704.000  | 23.1876 |
| 3            |         | 36.732   | 1225911.125 | 407100576.000  | 32.3262 |
| 4            |         | 48.665   | 1177588.750 | 305256832.000  | 24.2392 |
| <b>Total</b> |         |          | 4234525.938 | 1259351184.000 | 100.000 |

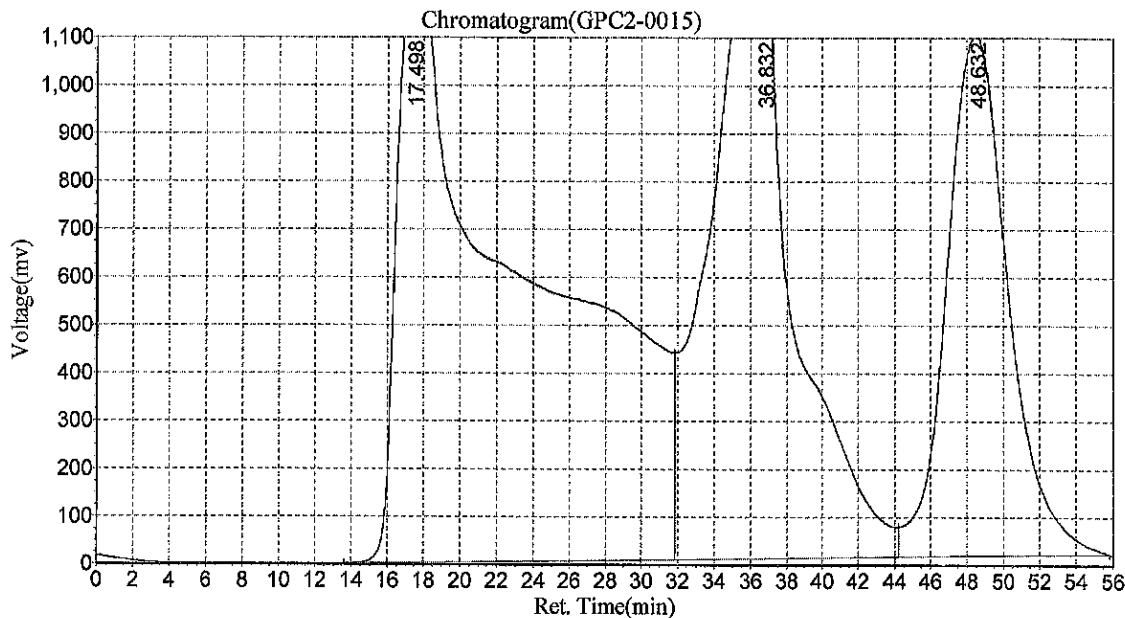
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLC0442/423/23A0179/180/23C0174** <sup>10</sup>

Date:2023-03-21,4:27:51 AM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0015  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-21,4:27:51 AM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area           | Conc    |
|--------------|---------|----------|-------------|----------------|---------|
| 1            |         | 17.498   | 1248121.500 | 624849280.000  | 48.2619 |
| 2            |         | 36.832   | 1233413.875 | 413760672.000  | 31.9579 |
| 3            |         | 48.632   | 1084263.875 | 256093952.000  | 19.7801 |
| <b>Total</b> |         |          | 3565799.250 | 1294703904.000 | 100.000 |

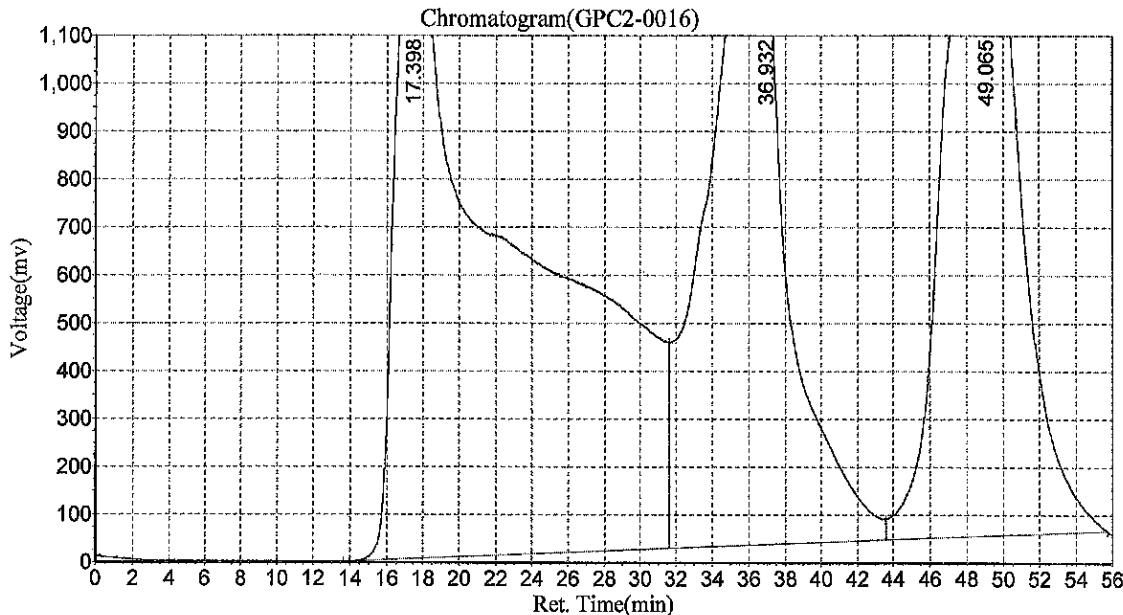
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLC0442/423/23A0179/180/23C0174 -11**

Date:2023-03-21,5:25:33 AM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0016  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-21,5:25:33 AM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area           | Conc    |
|--------------|---------|----------|-------------|----------------|---------|
| 1            |         | 17.398   | 1243660.000 | 647777728.000  | 45.1377 |
| 2            |         | 36.932   | 1208860.375 | 404613344.000  | 28.1938 |
| 3            |         | 49.065   | 1191889.500 | 382724800.000  | 26.6686 |
| <b>Total</b> |         |          | 3644409.875 | 1435115872.000 | 100.000 |

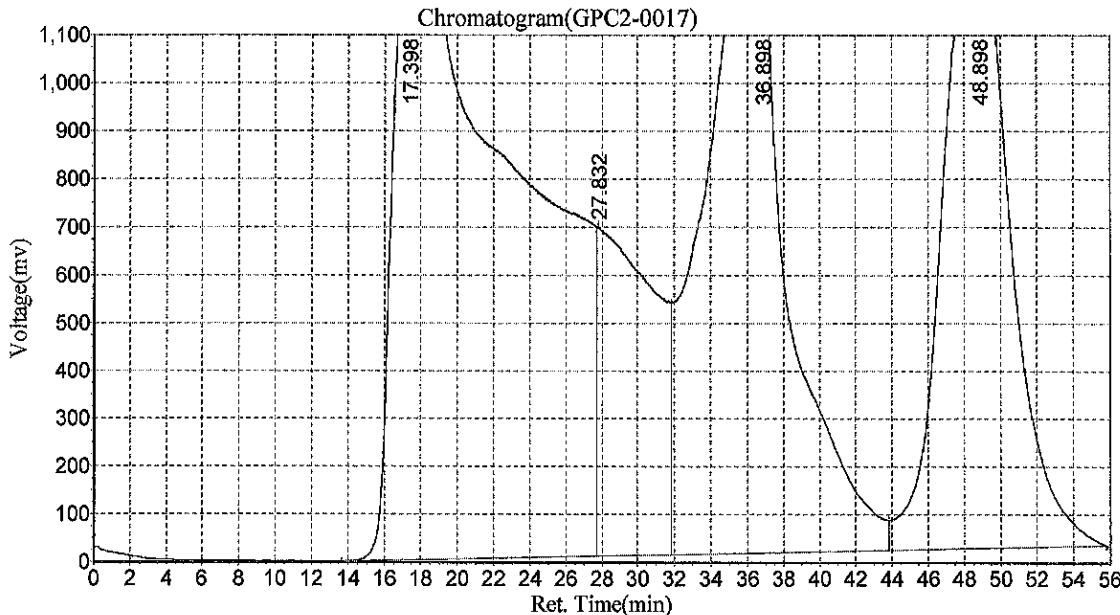
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-21,6:23:16 AM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0017  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-21,6:23:16 AM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area           | Conc    |
|--------------|---------|----------|-------------|----------------|---------|
| 1            |         | 17.398   | 1245895.500 | 639083648.000  | 41.4942 |
| 2            |         | 27.832   | 689824.063  | 148648768.000  | 9.6514  |
| 3            |         | 36.898   | 1226104.875 | 422137248.000  | 27.4084 |
| 4            |         | 48.898   | 1212363.625 | 330307360.000  | 21.4461 |
| <b>Total</b> |         |          | 4374188.063 | 1540177024.000 | 100.000 |

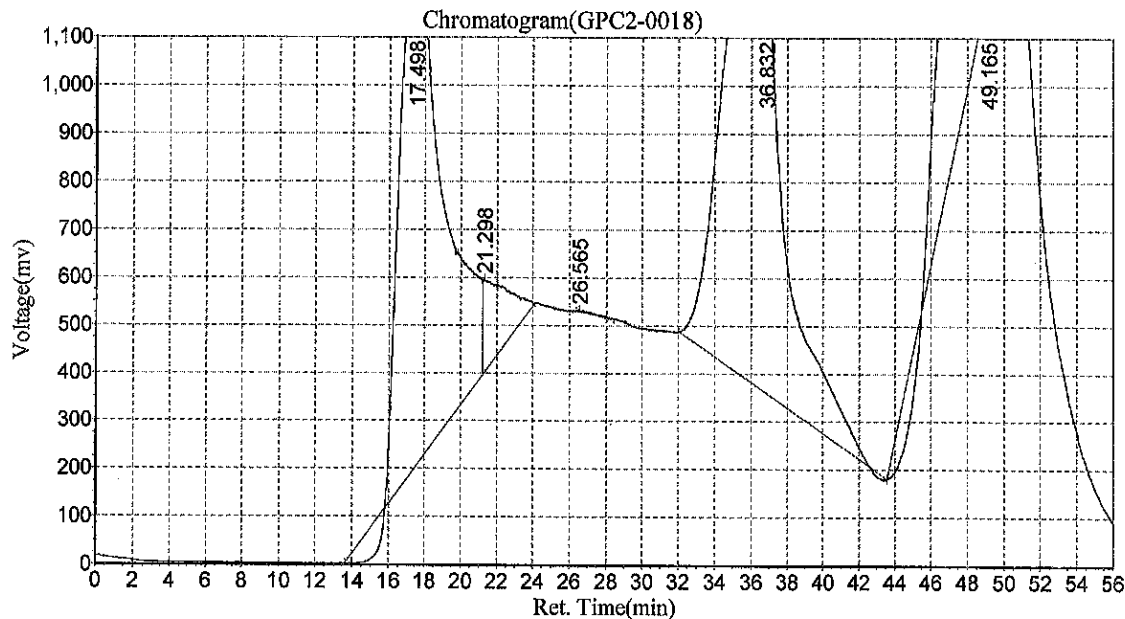
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-21,7:20:57 AM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0018  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-21,7:20:57 AM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.498   | 1047066.625 | 174874240.000 | 37.7677 |
| 2            |         | 21.298   | 196352.656  | 17526248.000  | 3.7852  |
| 3            |         | 26.565   | 3524.936    | 189172.000    | 0.0409  |
| 4            |         | 36.832   | 887701.250  | 218651632.000 | 47.2224 |
| 5            |         | 49.165   | 49400.109   | 51784408.000  | 11.1839 |
| <b>Total</b> |         |          | 2184045.576 | 463025700.000 | 100.000 |

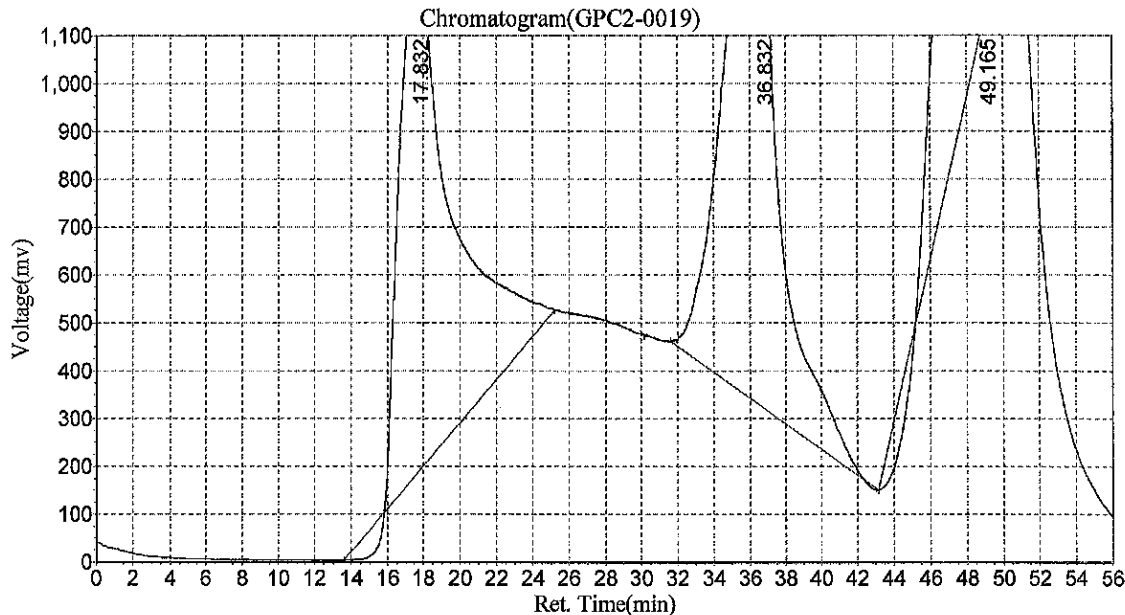
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

02  
**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-21,8:18:40 AM  
Data File:c:\n2000\data\gpc2\032023\GPC2-0019  
Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
Date/Time:2023-03-21,8:18:41 AM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.832   | 1057970.250 | 218716800.000 | 42.8052 |
| 2            |         | 36.832   | 926899.563  | 226352768.000 | 44.2996 |
| 3            |         | 49.165   | 90555.180   | 65889392.000  | 12.8952 |
| <b>Total</b> |         |          | 2075424.992 | 510958960.000 | 100.000 |

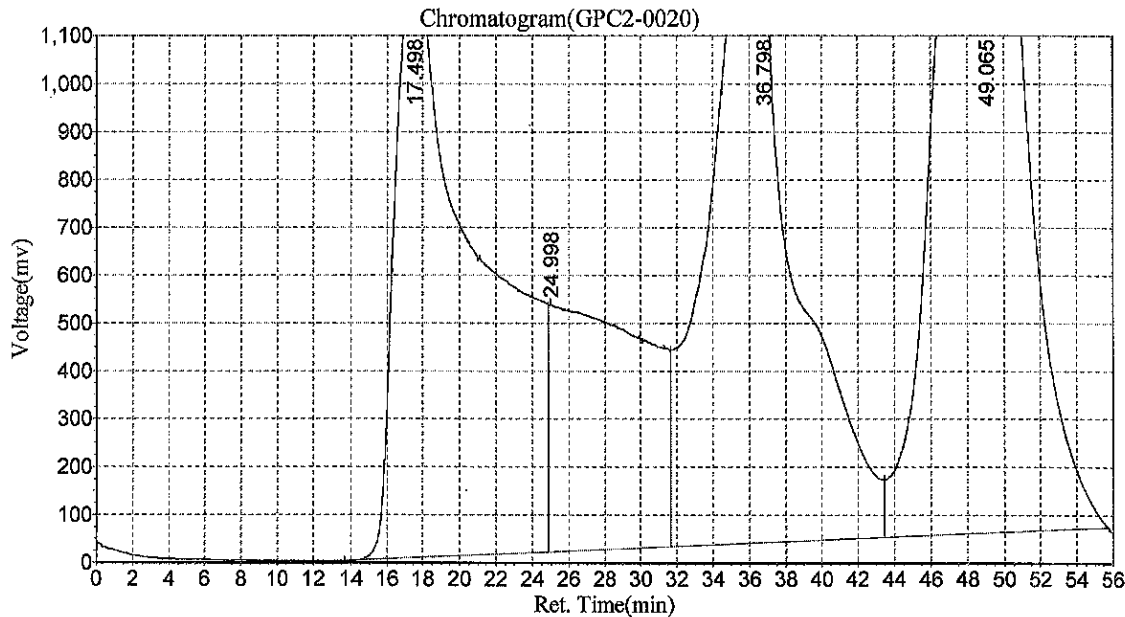
**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

# BLC0442/423/23A0179/180/23C0174

Date:2023-03-21,9:16:22 AM  
 Data File:c:\n2000\data\gpc2\032023\GPC2-0020  
 Method File:E:\GPC2\_InHouse.mtd

Analyst:NRB  
 Date/Time:2023-03-21,9:16:23 AM



### Results

| Peak No.     | Peak ID | Ret Time | Height      | Area           | Conc    |
|--------------|---------|----------|-------------|----------------|---------|
| 1            |         | 17.498   | 1241627.375 | 400978336.000  | 26.7973 |
| 2            |         | 24.998   | 517815.500  | 188737536.000  | 12.6133 |
| 3            |         | 36.798   | 1204099.875 | 429762208.000  | 28.7209 |
| 4            |         | 49.065   | 1187190.125 | 476859840.000  | 31.8685 |
| <b>Total</b> |         |          | 4150732.875 | 1496337920.000 | 100.000 |

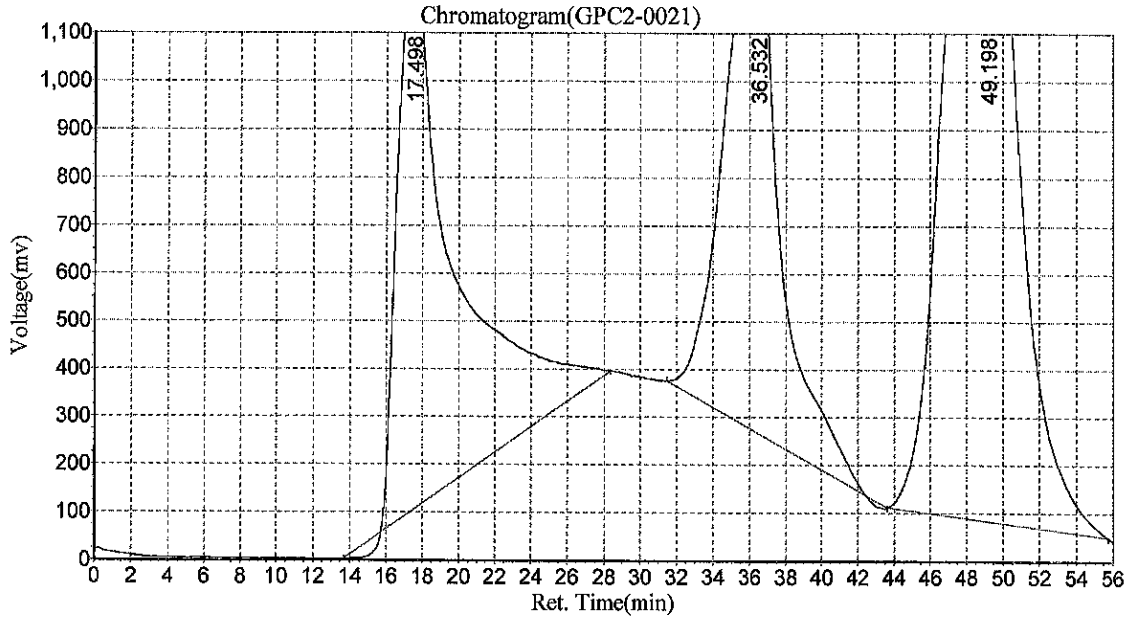
### Ingredient Table

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |

04  
**BLC0442/423/23A0179/180/23C0174**

Date:2023-03-21,10:14:10 AM  
Data File:c:\n2000\data\gpc2\032023\GPC2-0021  
Method File:E:\GPC2\_InHouse.mtd

Analyst:°NRB  
Date/Time:2023-03-21,10:14:10 AM



**Results**

| Peak No.     | Peak ID | Ret Time | Height      | Area          | Conc    |
|--------------|---------|----------|-------------|---------------|---------|
| 1            |         | 17.498   | 1146666.000 | 254363952.000 | 29.5232 |
| 2            |         | 36.532   | 982837.875  | 225198368.000 | 26.1381 |
| 3            |         | 49.198   | 1169467.125 | 382009568.000 | 44.3387 |
| <b>Total</b> |         |          | 3298971.000 | 861571888.000 | 100.000 |

**Ingredient Table**

| No | Peak ID      | Ret Time | Peak Width | Factor1   | Factor2   | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1  | Collect Pest | 29.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 2  | Dump Pest    | 46.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 3  | Dump BAN     | 48.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |
| 4  | Collect BAN  | 24.000   | 0.010      | 0.00E+000 | 0.00E+000 | 0.0000   |





## CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLB0033

Cleanup Type: GPC

Cleanup Method: EPA 3640A GPC Cleanup 1:1

Analysis: EPA 8270E-SIM

| SAMPLE NAME  | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|--------------|---------------|-------------|---------------|--------------|
| LDW23-SS1277 | 23A0179-01    |             | 02/05/2023    |              |
| LDW23-SS1271 | 23A0179-02    |             | 02/05/2023    |              |
| LDW23-SS1266 | 23A0179-03    |             | 02/05/2023    |              |
| LDW23-SS1248 | 23A0179-04    |             | 02/05/2023    |              |
| LDW23-SS1239 | 23A0179-05    |             | 02/05/2023    |              |
| LDW23-SS1213 | 23A0179-06    |             | 02/05/2023    |              |
| LDW23-SS1200 | 23A0179-07    |             | 02/05/2023    |              |
| LDW23-SS1178 | 23A0179-08    |             | 02/05/2023    |              |
| LDW23-SS1171 | 23A0179-09    |             | 02/05/2023    |              |
| LDW23-SS1112 | 23A0179-10    |             | 02/05/2023    |              |
| LDW23-SS1039 | 23A0179-11    |             | 02/05/2023    |              |
| LDW23-SS1007 | 23A0179-12    |             | 02/05/2023    |              |



**CLEANUP BENCH SHEET**

CLB0033

Matrix: Solid      Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1      Check Standard: CLA0166-GPC1      Printed: 2/5/2023 10:16:35AM

| Lab Number | Sample Container | Sample Name  | Extract Container | Initial (uL) | Final (uL) | Analysis   | Clean Up Date | Cleaned By | Cleanup Comments |
|------------|------------------|--------------|-------------------|--------------|------------|--|---------------|------------|------------------|
| 23A0179-01 | A                | LDW23-SS1277 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-01 | A                | LDW23-SS1277 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-02 | A                | LDW23-SS1271 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-02 | A                | LDW23-SS1271 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-03 | A                | LDW23-SS1266 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-03 | A                | LDW23-SS1266 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-04 | A                | LDW23-SS1248 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-04 | A                | LDW23-SS1248 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-05 | A                | LDW23-SS1239 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-05 | A                | LDW23-SS1239 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-06 | A                | LDW23-SS1213 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-06 | A                | LDW23-SS1213 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-07 | A                | LDW23-SS1200 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-07 | A                | LDW23-SS1200 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-08 | A                | LDW23-SS1178 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-08 | A                | LDW23-SS1178 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-09 | A                | LDW23-SS1171 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-09 | A                | LDW23-SS1171 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-10 | A                | LDW23-SS1112 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-10 | A                | LDW23-SS1112 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-11 | A                | LDW23-SS1039 | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0179-11 | A                | LDW23-SS1039 | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |



**CLEANUP BENCH SHEET**

CLB0033

Matrix: Solid      Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1      Check Standard: CLA0166-GPC1      Printed: 2/5/2023 10:16:35AM

| Lab Number   | Sample Container | Sample Name      | Extract Container | Initial (uL) | Final (uL) | Analysis   | Clean Up Date | Cleaned By | Cleanup Comments |
|--------------|------------------|------------------|-------------------|--------------|------------|--|---------------|------------|------------------|
| 23A0179-12   | A                | LDW23-SS1007     | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0179-12   | A                | LDW23-SS1007     | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0180-01   | A                | LDW23-SC1164     | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0180-01   | A                | LDW23-SC1164     | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0180-02   | A                | LDW23-SC1164-FD  | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0180-02   | A                | LDW23-SC1164-FD  | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0180-03   | A                | LDW23-SC1158     | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| 23A0180-03   | A                | LDW23-SC1158     | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0180-04   | A                | LDW23-SC1151     | A 04              | 1            | 1          | 8270E-SIM Dual Scan SVOC                         | 2/5/2023      | NRB        |                  |
| 23A0180-04   | A                | LDW23-SC1151     | A 02              | 1            | 1          | VOC (20ug/kg solid or 0.2ug/L low H <sub>2</sub> | 2/5/2023      | NRB        |                  |
| BLA0557-BLK1 | -                | Blank            | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-BLK2 | -                | Blank            | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-BS1  | -                | LCS              | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-BS2  | -                | LCS              | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-BSD1 | -                | LCS Dup          | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-BSD2 | -                | LCS Dup          | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-MS1  | -                | Matrix Spike     | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-MS2  | -                | Matrix Spike     | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-MSD1 | -                | Matrix Spike Dup | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-MSD2 | -                | Matrix Spike Dup | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-SRM1 | -                | Reference        | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |
| BLA0557-SRM2 | -                | Reference        | -                 | 1            | 1          | -  | 2/5/2023      | NRB        |                  |



### CLEANUP BENCH SHEET

CLB0033

**Matrix: Solid**      **Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1**      **Check Standard: CLA0166-GPC1**      **Printed: 2/5/2023 10:16:35AM**

| Lab Number | Sample Container | Sample Name | Extract Container | Initial (uL) | Final (uL) | Analysis | Clean Up Date | Cleaned By | Cleanup Comments |
|------------|------------------|-------------|-------------------|--------------|------------|----------|---------------|------------|------------------|
|------------|------------------|-------------|-------------------|--------------|------------|----------|---------------|------------|------------------|



## CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLC0186

Cleanup Type: GPC

Cleanup Method: EPA 3640A GPC Cleanup 1:1

Analysis: EPA 8270E-SIM

| SAMPLE NAME      | LAB SAMPLE ID | LAB FILE ID     | DATE PREPARED | OBSERVATIONS |
|------------------|---------------|-----------------|---------------|--------------|
| LDW23-SS1266     | 23A0179-03RE1 | NT1003222312S.D | 03/21/2023    |              |
| LDW23-SS1039     | 23A0179-11RE1 | NT1003222327S.D | 03/21/2023    |              |
| LDW23-SS1112     | 23A0179-10RE1 | NT1003222326S.D | 03/21/2023    |              |
| LDW23-SS1171     | 23A0179-09RE1 | NT1003222325S.D | 03/21/2023    |              |
| LDW23-SS1178     | 23A0179-08RE1 | NT1003222324S.D | 03/21/2023    |              |
| LDW23-SS1200     | 23A0179-07RE1 | NT1003222316S.D | 03/21/2023    |              |
| LDW23-SS1213     | 23A0179-06RE1 | NT1003222315S.D | 03/21/2023    |              |
| LDW23-SS1007     | 23A0179-12RE1 | NT1003222328S.D | 03/21/2023    |              |
| LDW23-SS1248     | 23A0179-04RE1 | NT1003222313S.D | 03/21/2023    |              |
| Reference        | BLC0442-SRM2  | NT1003222309S.D | 03/21/2023    |              |
| LDW23-SS1271     | 23A0179-02RE1 | NT1003222311S.D | 03/21/2023    |              |
| LDW23-SS1277     | 23A0179-01RE1 | NT1003222310S.D | 03/21/2023    |              |
| Blank            | BLC0442-BLK2  | NT1003222306S.D | 03/21/2023    |              |
| LCS              | BLC0442-BS2   | NT1003222307S.D | 03/21/2023    |              |
| LCS Dup          | BLC0442-BSD2  | NT1003222308S.D | 03/21/2023    |              |
| Matrix Spike     | BLC0442-MS2   | NT1003222322S.D | 03/21/2023    |              |
| Matrix Spike Dup | BLC0442-MSD2  | NT1003222323S.D | 03/21/2023    |              |
| LDW23-SS1239     | 23A0179-05RE1 | NT1003222314S.D | 03/21/2023    |              |



## CLEANUP BENCH SHEET

CLC0186

Matrix: Solid

Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1

Check Standard: CLB0132-GPC2

Printed: 3/21/2023 2:52:34PM

| Lab Number    | Sample Container | Sample Name  | Extract Container | Initial (uL) | Final (uL) | Analysis                           | Clean Up Date | Cleaned By | Cleanup Comments |
|---------------|------------------|--------------|-------------------|--------------|------------|------------------------------------|---------------|------------|------------------|
| 23A0179-01RE1 | A                | LDW23-SS1277 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0179-01RE1 | A                | LDW23-SS1277 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-02RE1 | A                | LDW23-SS1271 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-02RE1 | A                | LDW23-SS1271 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0179-03RE1 | A                | LDW23-SS1266 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-03RE1 | A                | LDW23-SS1266 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0179-04RE1 | A                | LDW23-SS1248 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-04RE1 | A                | LDW23-SS1248 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0179-05RE1 | A                | LDW23-SS1239 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-05RE1 | A                | LDW23-SS1239 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0179-06RE1 | A                | LDW23-SS1213 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-06RE1 | A                | LDW23-SS1213 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0179-07RE1 | A                | LDW23-SS1200 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0179-07RE1 | A                | LDW23-SS1200 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-08RE1 | A                | LDW23-SS1178 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-08RE1 | A                | LDW23-SS1178 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0179-09RE1 | A                | LDW23-SS1171 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-09RE1 | A                | LDW23-SS1171 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0179-10RE1 | A                | LDW23-SS1112 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0179-10RE1 | A                | LDW23-SS1112 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-11RE1 | A                | LDW23-SS1039 | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-11RE1 | A                | LDW23-SS1039 | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |



## CLEANUP BENCH SHEET

CLC0186

Matrix: Solid

Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1

Check Standard: CLB0132-GPC2

Printed: 3/21/2023 2:52:34PM

| Lab Number    | Sample Container | Sample Name      | Extract Container | Initial (uL) | Final (uL) | Analysis                           | Clean Up Date | Cleaned By | Cleanup Comments |
|---------------|------------------|------------------|-------------------|--------------|------------|------------------------------------|---------------|------------|------------------|
| 23A0179-12RE1 | A                | LDW23-SS1007     | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0179-12RE1 | A                | LDW23-SS1007     | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0180-01RE1 | A                | LDW23-SC1164     | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0180-01RE1 | A                | LDW23-SC1164     | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0180-02RE1 | A                | LDW23-SC1164-FD  | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0180-02RE1 | A                | LDW23-SC1164-FD  | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0180-03RE1 | A                | LDW23-SC1158     | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| 23A0180-03RE1 | A                | LDW23-SC1158     | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0180-04RE1 | A                | LDW23-SC1151     | A 05              | 1            | 1          | OC (20ug/kg solid or 0.2ug/L low l | 3/21/2023     | CTO        |                  |
| 23A0180-04RE1 | A                | LDW23-SC1151     | A 06              | 1            | 1          | 8270E-SIM Dual Scan SVOC           | 3/21/2023     | CTO        |                  |
| BLC0442-BLK1  | -                | Blank            | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-BLK2  | -                | Blank            | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-BS1   | -                | LCS              | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-BS2   | -                | LCS              | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-BSD1  | -                | LCS Dup          | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-BSD2  | -                | LCS Dup          | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-MS1   | -                | Matrix Spike     | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-MS2   | -                | Matrix Spike     | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-MSD1  | -                | Matrix Spike Dup | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-MSD2  | -                | Matrix Spike Dup | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-SRM1  | -                | Reference        | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |
| BLC0442-SRM2  | -                | Reference        | -                 | 1            | 1          | -                                  | 3/21/2023     | CTO        |                  |



# CLEANUP BENCH SHEET

CLC0186

Matrix: Solid

Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1

Check Standard: CLB0132-GPC2

Printed: 3/21/2023 2:52:34PM

| Lab Number | Sample Container | Sample Name | Extract Container | Initial (uL) | Final (uL) | Analysis | Clean Up Date | Cleaned By | Cleanup Comments |
|------------|------------------|-------------|-------------------|--------------|------------|----------|---------------|------------|------------------|
|------------|------------------|-------------|-------------------|--------------|------------|----------|---------------|------------|------------------|





**Form I**  
**METHOD BLANK DATA SHEET**  
**EPA 8270E-SIM**

|       |
|-------|
| Blank |
|-------|

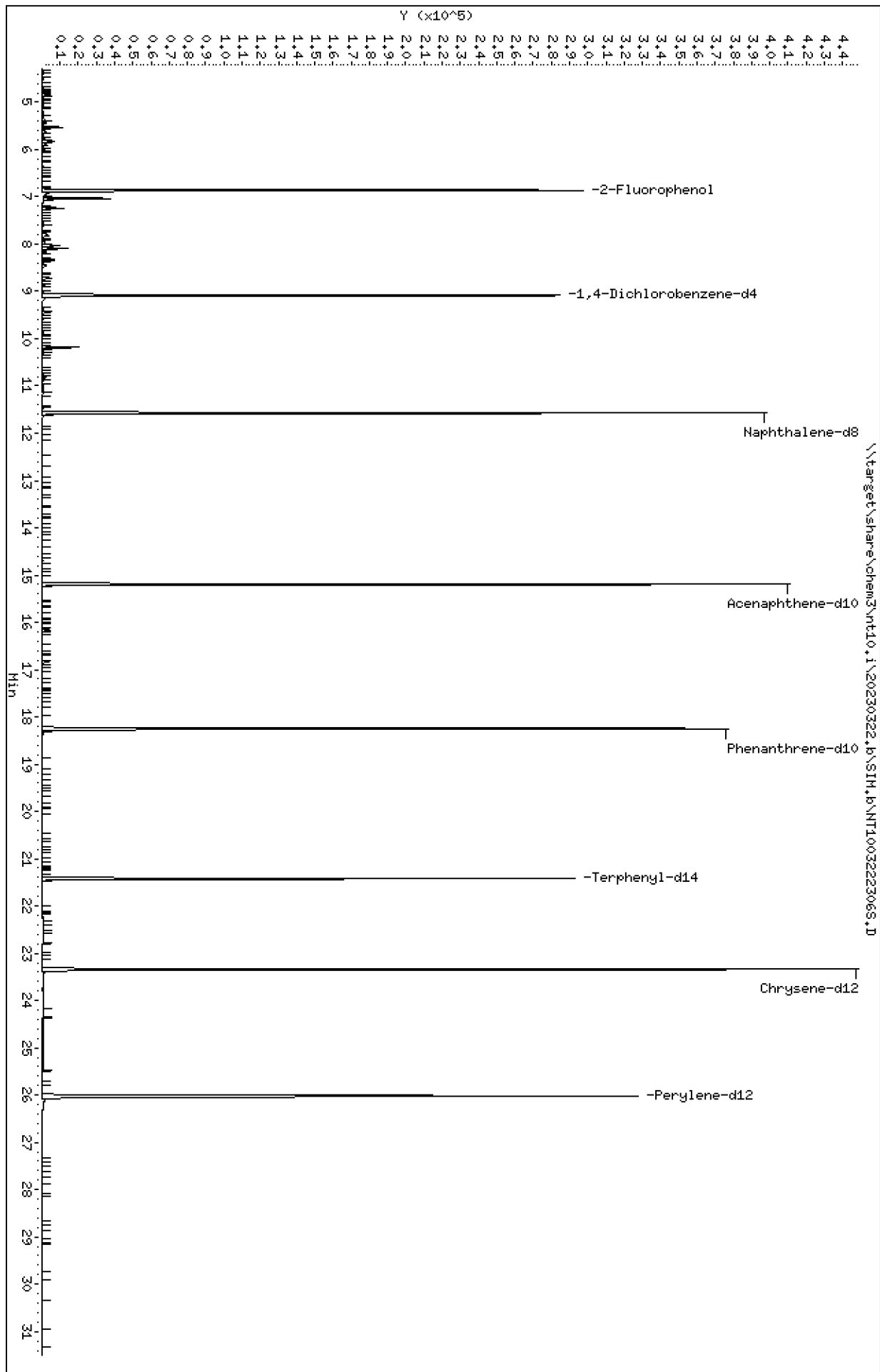
|             |                                  |                |                             |
|-------------|----------------------------------|----------------|-----------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>              |
| Client:     | <u>Anchor QEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u>      |
| Matrix:     | <u>Solid</u>                     | Laboratory ID: | <u>BLC0442-BLK2</u>         |
| Sampled:    | <u>N/A</u>                       | Prepared:      | <u>03/17/23 11:16</u>       |
| Solids:     |                                  | Preparation:   | <u>EPA 3546 (Microwave)</u> |
| Batch:      | <u>BLC0442</u>                   | Sequence:      | <u>SLC0407</u>              |
| Instrument: | <u>NT10</u>                      | Column:        | <u>ZB-5MSi</u>              |
|             |                                  | File ID:       | <u>NT1003222306S.D</u>      |
|             |                                  | Analyzed:      | <u>03/22/23 20:16</u>       |
|             |                                  | Initial/Final: | <u>10 g / 1 mL</u>          |
|             |                                  | Calibration:   | <u>GC00049</u>              |
|             |                                  | Cleanups:      | <u>GPC</u>                  |

| CAS NO.  | COMPOUND               | DILUTION | CONC:<br>(ug/kg wet) | Q | DL   | RL   |
|----------|------------------------|----------|----------------------|---|------|------|
| 106-46-7 | 1,4-Dichlorobenzene    | 1        | 5.0                  | U | 0.6  | 5.0  |
| 95-50-1  | 1,2-Dichlorobenzene    | 1        | 5.0                  | U | 0.7  | 5.0  |
| 100-51-6 | Benzyl Alcohol         | 1        | 20.0                 | U | 2.5  | 20.0 |
| 65-85-0  | Benzoic acid           | 1        | 100                  | U | 13.4 | 100  |
| 105-67-9 | 2,4-Dimethylphenol     | 1        | 20.0                 | U | 2.2  | 20.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1        | 5.0                  | U | 2.7  | 5.0  |
| 86-30-6  | N-Nitrosodiphenylamine | 1        | 5.0                  | U | 1.3  | 5.0  |
| 87-86-5  | Pentachlorophenol      | 1        | 20.0                 | U | 2.1  | 20.0 |

| SURROGATES      | ADDED:<br>(ug/kg wet) | FOUND:<br>(ug/kg wet) | % REC | QC LIMITS | Q |
|-----------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol  | 750.00                | 531                   | 70.8  | 27 - 120  |   |
| p-Terphenyl-d14 | 500.00                | 421                   | 84.1  | 37 - 120  |   |

Data File: \\target\share\chem3\nt10.1\20230322.16\SIM.B\NT100322306S.D  
Date: 22-MAR-2023 20:16  
Client ID:  
Sample Info: BLC0442-BLK1  
Volume Injected (uL): 1.0  
Column phase: ZB-5msi

Instrument: nt10.1  
Operator: JGR  
Column diameter: 0.25



Date : 22-MAR-2023 20:16

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BLK1

Volume Injected (uL): 1.0

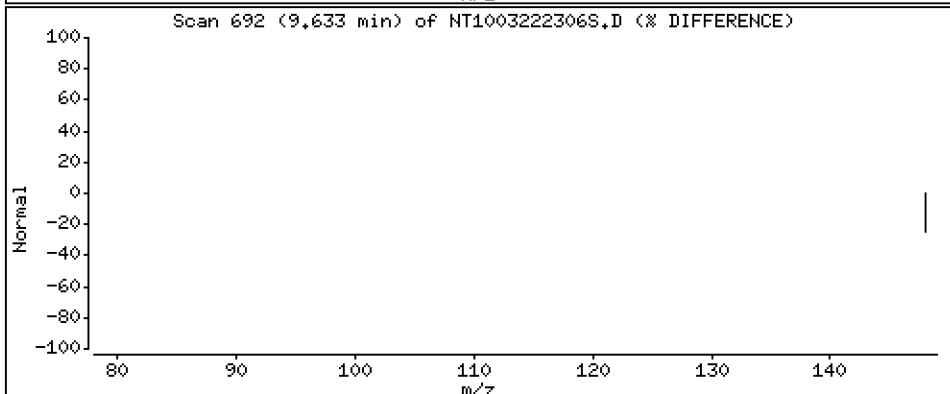
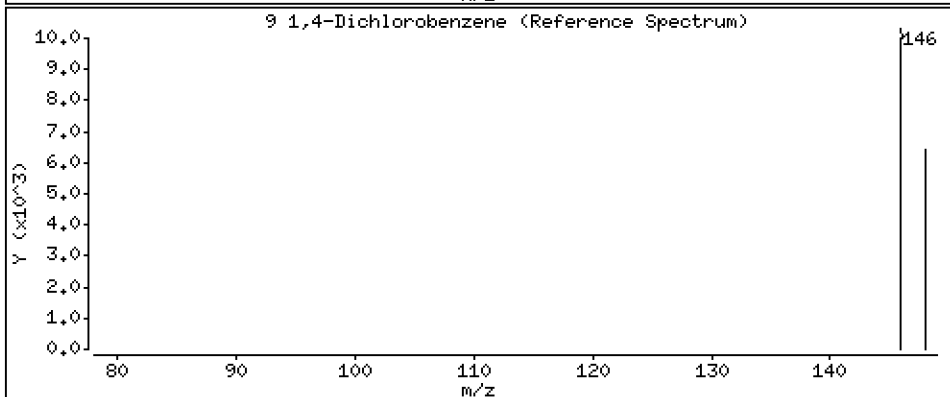
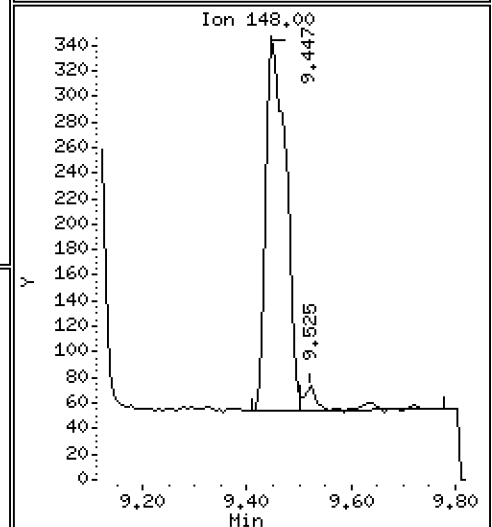
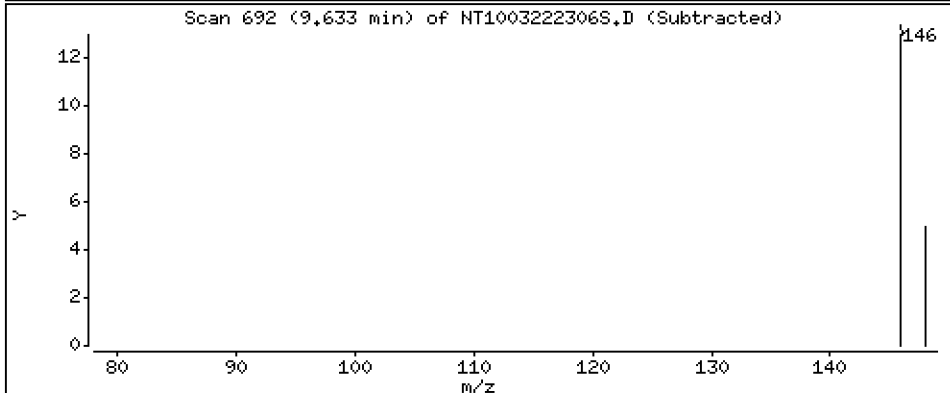
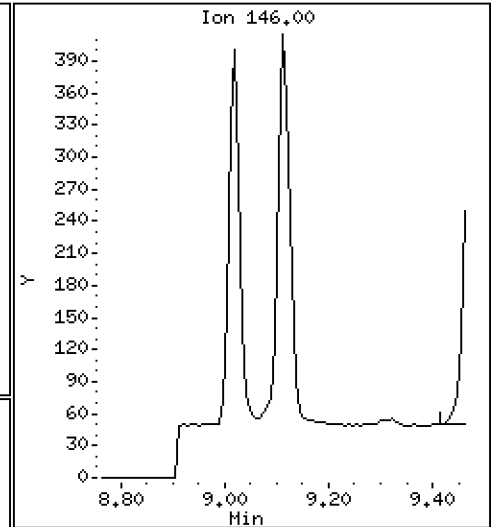
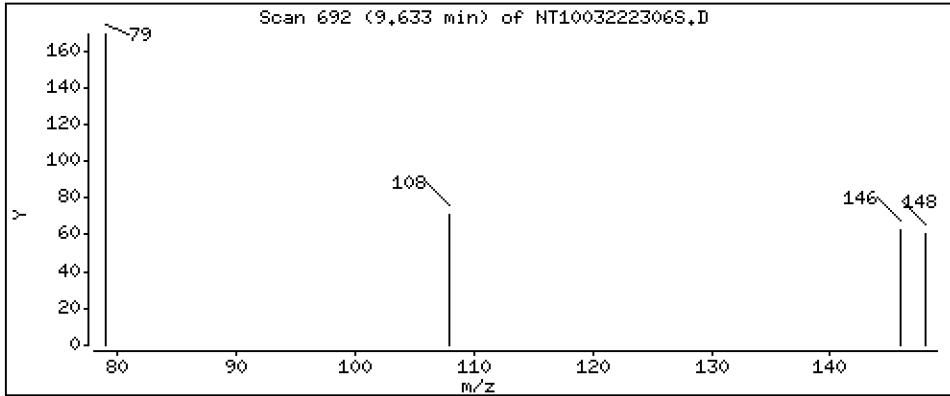
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,0003456 ug/L



Date : 22-MAR-2023 20:16

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BLK1

Volume Injected (uL): 1.0

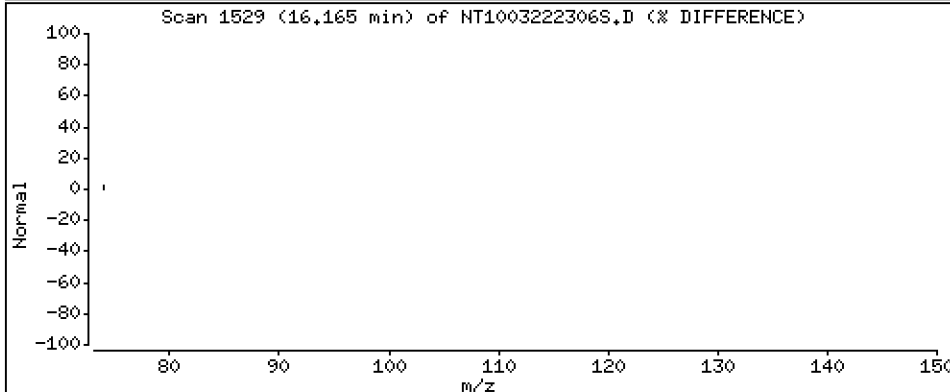
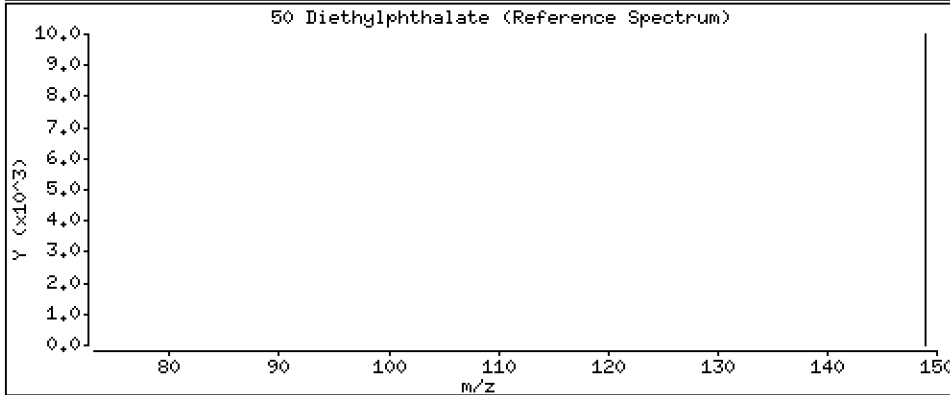
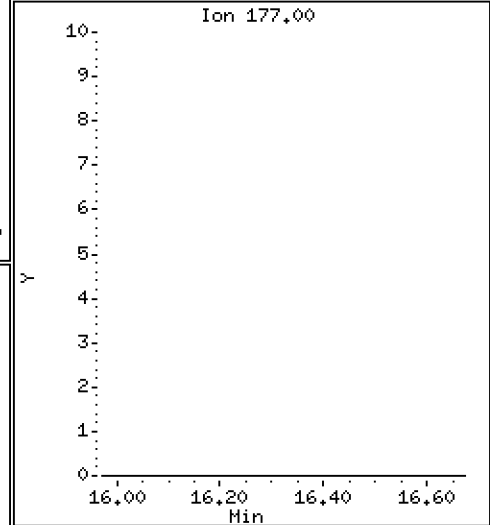
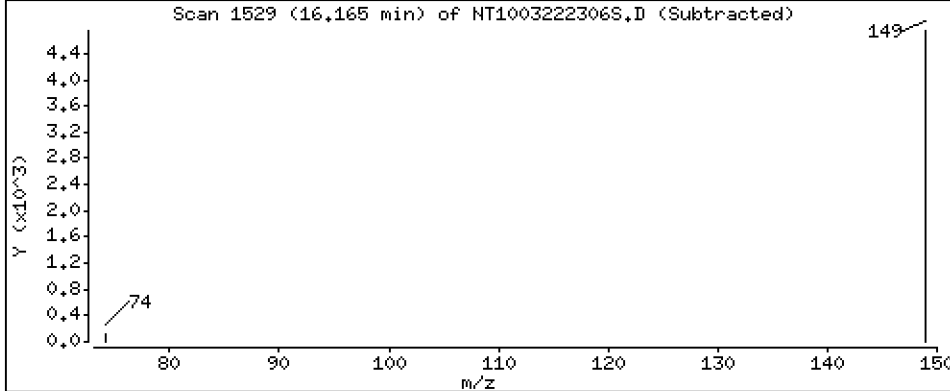
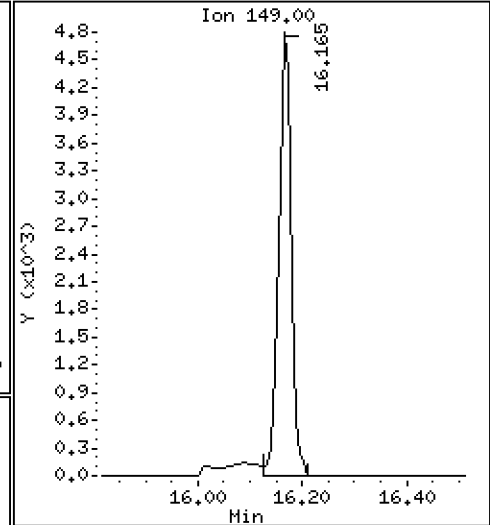
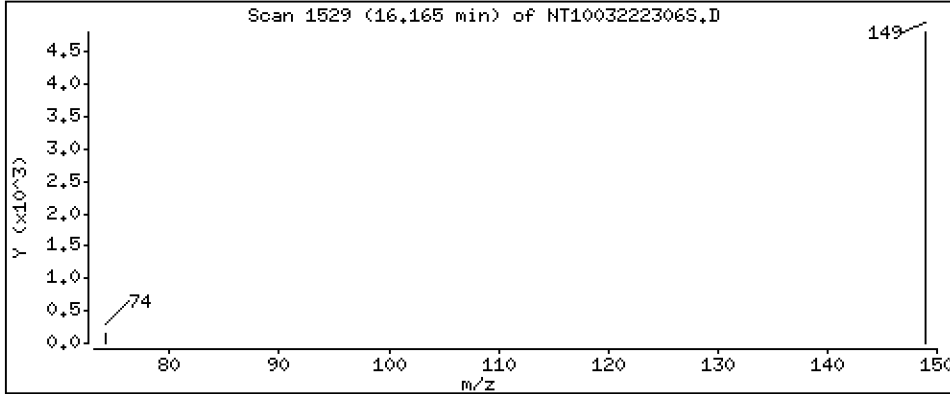
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,07539 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222306S.D  
 Lab Smp Id: BLC0442-BLK2  
 Inj Date : 22-MAR-2023 20:16 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : BLC0442-BLK1  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Meth Date : 25-Mar-2023 13:23 yev Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 6  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: ORGDATA102

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |               |
|-------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|---------------|
|                               |       |     |                        |        |         |          | ON-COLUMN      | FINAL         |
|                               | MASS  |     |                        |        |         |          | (ug/mL)        | ( ug/L)       |
| \$ 1 2-Fluorophenol           | 112   |     | 6.864                  | 6.856  | (0.755) | 297521   | 5.30997        | 5.310 (R)     |
| 3 Phenol                      | 94    |     | Compound Not Detected. |        |         |          |                |               |
| 7 1,3-Dichlorobenzene         | 146   |     | Compound Not Detected. |        |         |          |                |               |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.089                  | 9.090  | (1.000) | 184770   | 4.00000        |               |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.633                  | 9.113  | (1.060) | 24       | 3e-004         | 0.0003456 (H) |
| 11 Benzyl alcohol             | 79    |     | Compound Not Detected. |        |         |          |                |               |
| 12 1,2-Dichlorobenzene        | 146   |     | Compound Not Detected. |        |         |          |                |               |
| 13 2-Methylphenol             | 108   |     | Compound Not Detected. |        |         |          |                |               |
| 15 4-Methylphenol             | 108   |     | Compound Not Detected. |        |         |          |                |               |
| 16 N-Nitroso-di-n-propylamine | 70    |     | Compound Not Detected. |        |         |          |                |               |
| 22 2,4-Dimethylphenol         | 107   |     | Compound Not Detected. |        |         |          |                |               |
| 24 Benzoic acid               | 105   |     | Compound Not Detected. |        |         |          |                |               |
| 26 1,2,4-Trichlorobenzene     | 180   |     | Compound Not Detected. |        |         |          |                |               |
| * 27 Naphthalene-d8           | 136   |     | 11.569                 | 11.569 | (1.000) | 645327   | 4.00000        |               |
| 30 Hexachlorobutadiene        | 225   |     | Compound Not Detected. |        |         |          |                |               |
| 39 Dimethylphthalate          | 163   |     | Compound Not Detected. |        |         |          |                |               |
| * 42 Acenaphthene-d10         | 162   |     | 15.198                 | 15.198 | (1.000) | 320820   | 4.00000        |               |
| 50 Diethylphthalate           | 149   |     | 16.165                 | 16.165 | (1.064) | 7907     | 0.07539        | 0.07539       |
| 54 N-Nitrosodiphenylamine     | 169   |     | Compound Not Detected. |        |         |          |                |               |
| 57 Hexachlorobenzene          | 284   |     | Compound Not Detected. |        |         |          |                |               |

| Compounds                 | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |          |
|---------------------------|-------|-----|------------------------|--------|---------|----------|----------------|----------|
|                           |       |     |                        |        |         |          | ON-COLUMN      | FINAL    |
|                           | MASS  |     |                        |        |         |          | (ug/mL)        | ( ug/L)  |
| =====                     | ===== |     | =====                  | =====  | =====   | =====    | =====          | =====    |
| 58 Pentachlorophenol      | 266   |     | Compound Not Detected. |        |         |          |                |          |
| * 59 Phenanthrene-d10     | 188   |     | 18.250                 | 18.250 | (1.000) | 609921   | 4.00000        |          |
| \$ 66 Terphenyl-d14       | 244   |     | 21.422                 | 21.422 | (0.918) | 362001   | 4.20654        | 4.207(R) |
| 67 Butylbenzylphthalate   | 149   |     | Compound Not Detected. |        |         |          |                |          |
| * 69 Chrysene-d12         | 240   |     | 23.342                 | 23.343 | (1.000) | 528163   | 4.00000        |          |
| * 77 Perylene-d12         | 264   |     | 26.021                 | 26.029 | (1.000) | 592176   | 4.00000        |          |
| 79 Dibenzo(a,h)anthracene | 278   |     | Compound Not Detected. |        |         |          |                |          |
| 90 N-Nitrosodimethylamine | 74    |     | Compound Not Detected. |        |         |          |                |          |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT1003222306S.D  
 Lab Smp Id: BLC0442-BLK2  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Misc Info:

Calibration Date: 22-MAR-2023  
 Calibration Time: 18:20  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 135191   | 67596      | 270382  | 184770 | 36.67 |
| 27 Naphthalene-d8   | 487226   | 243613     | 974452  | 645327 | 32.45 |
| 42 Acenaphthene-d10 | 246588   | 123294     | 493176  | 320820 | 30.10 |
| 59 Phenanthrene-d10 | 479352   | 239676     | 958704  | 609921 | 27.24 |
| 69 Chrysene-d12     | 439791   | 219896     | 879582  | 528163 | 20.09 |
| 77 Perylene-d12     | 505700   | 252850     | 1011400 | 592176 | 17.10 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.09     | 8.59     | 9.59  | 9.09   | -0.00 |
| 27 Naphthalene-d8   | 11.57    | 11.07    | 12.07 | 11.57  | -0.00 |
| 42 Acenaphthene-d10 | 15.20    | 14.70    | 15.70 | 15.20  | -0.00 |
| 59 Phenanthrene-d10 | 18.25    | 17.75    | 18.75 | 18.25  | -0.00 |
| 69 Chrysene-d12     | 23.34    | 22.84    | 23.84 | 23.34  | -0.00 |
| 77 Perylene-d12     | 26.03    | 25.53    | 26.53 | 26.02  | -0.03 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222306S.D

Lab ID: BLC0442-BLK2

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 22-MAR-2023 20:16

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND            |
|-------|---------|--------|---------------------|
| 1.060 | 1.003   | 0.0572 | 1,4-Dichlorobenzene |

RRT check based on Ccal File: SIM.b/NT1003222303S.D

On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*





**LCS / LCS DUPLICATE RECOVERY**  
**EPA 8270E-SIM**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Analyzed: 03/22/23 20:54

Batch: BLC0442

Laboratory ID: BLC0442-BS2

Preparation: EPA 3546 (Microwave)

Sequence Name: LCS

Initial/Final: 10 g / 1 mL

| COMPOUND               | SPIKE ADDED (ug/kg wet) | LCS CONCENTRATION (ug/kg wet) | Q | LCS % REC. # | QC LIMITS REC. |
|------------------------|-------------------------|-------------------------------|---|--------------|----------------|
| 1,4-Dichlorobenzene    | 500                     | 399                           |   | 79.7         | 36 - 120       |
| 1,2-Dichlorobenzene    | 500                     | 397                           |   | 79.3         | 36 - 120       |
| Benzyl Alcohol         | 500                     | 421                           |   | 84.1         | 25 - 123       |
| Benzoic acid           | 2300                    | 2930                          |   | 128          | 10 - 160       |
| 2,4-Dimethylphenol     | 1300                    | 549                           |   | 42.2         | 10 - 120       |
| 1,2,4-Trichlorobenzene | 500                     | 400                           |   | 79.9         | 35 - 120       |
| N-Nitrosodiphenylamine | 500                     | 411                           |   | 82.2         | 27 - 120       |
| Pentachlorophenol      | 1300                    | 1560                          |   | 120          | 26 - 120       |

\* Indicates values outside of QC limits

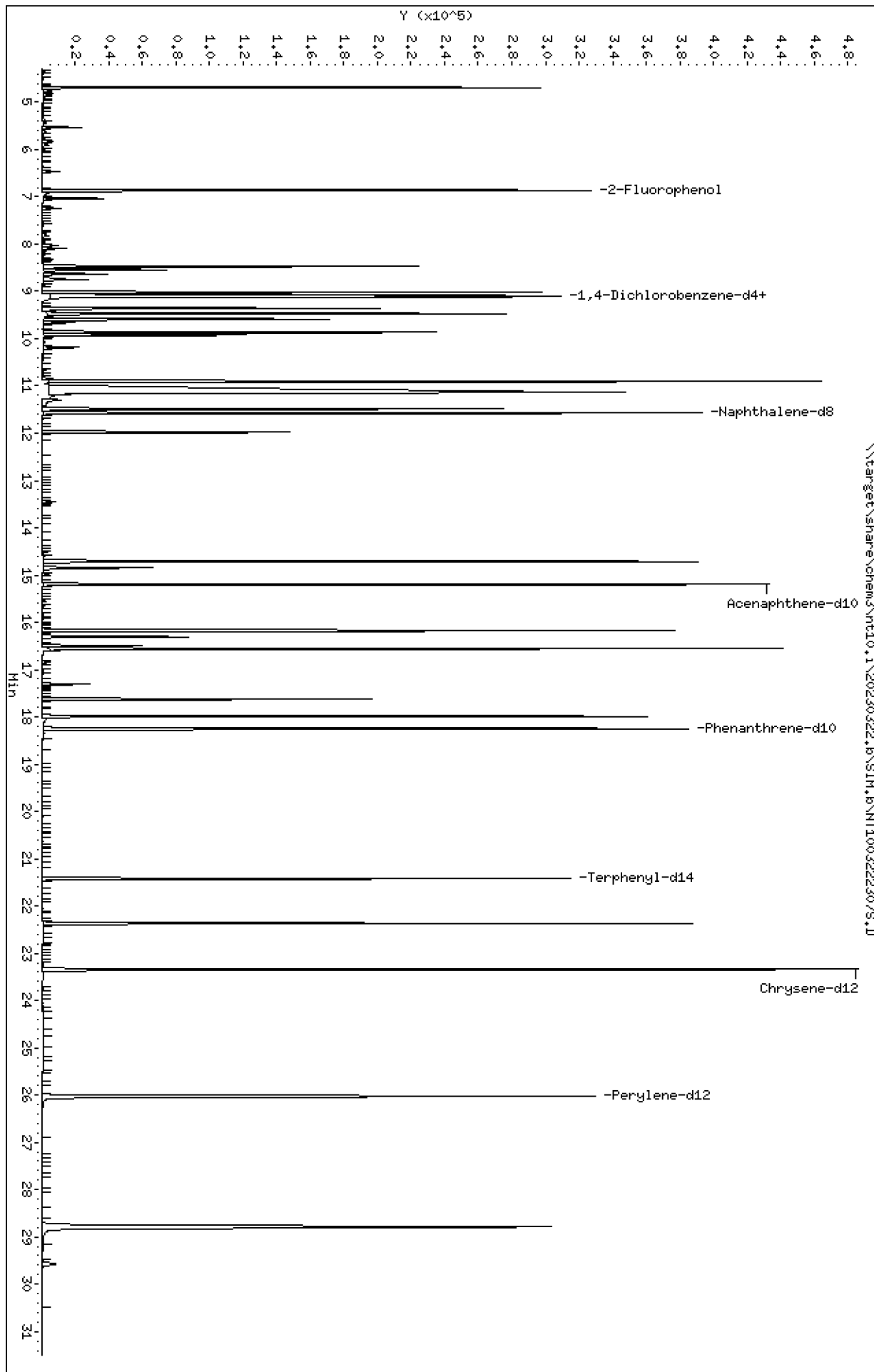
| COMPOUND               | SPIKE ADDED (ug/kg wet) | LCSD CONCENTRATION (ug/kg wet) | Q | LCSD % REC. # | % RPD # | QC LIMITS |          |
|------------------------|-------------------------|--------------------------------|---|---------------|---------|-----------|----------|
|                        |                         |                                |   |               |         | RPD       | REC.     |
| 1,4-Dichlorobenzene    | 500                     | 406                            |   | 81.3          | 1.94    | 30        | 36 - 120 |
| 1,2-Dichlorobenzene    | 500                     | 408                            |   | 81.6          | 2.78    | 30        | 36 - 120 |
| Benzyl Alcohol         | 500                     | 436                            |   | 87.3          | 3.66    | 30        | 25 - 123 |
| Benzoic acid           | 2300                    | 3040                           |   | 132           | 3.64    | 30        | 10 - 160 |
| 2,4-Dimethylphenol     | 1300                    | 557                            |   | 42.9          | 1.51    | 30        | 10 - 120 |
| 1,2,4-Trichlorobenzene | 500                     | 412                            |   | 82.3          | 2.95    | 30        | 35 - 120 |
| N-Nitrosodiphenylamine | 500                     | 435                            |   | 87.1          | 5.76    | 30        | 27 - 120 |
| Pentachlorophenol      | 1300                    | 1550                           |   | 119           | 0.775   | 30        | 26 - 120 |

\* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230322.16\SIH.6\NT100322307S.D  
Date: 22-MAR-2023 20:54  
Client ID:  
Sample Info: BLC0442-BS1  
Volume Injected (uL): 1.0  
Column phase: ZB-5msi

Instrument: nt10.1  
Operator: JGR  
Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\SIH.6\NT100322307S.D



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

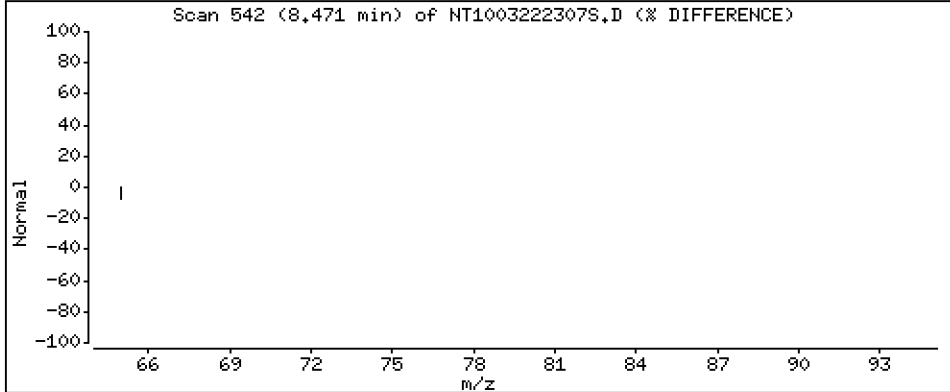
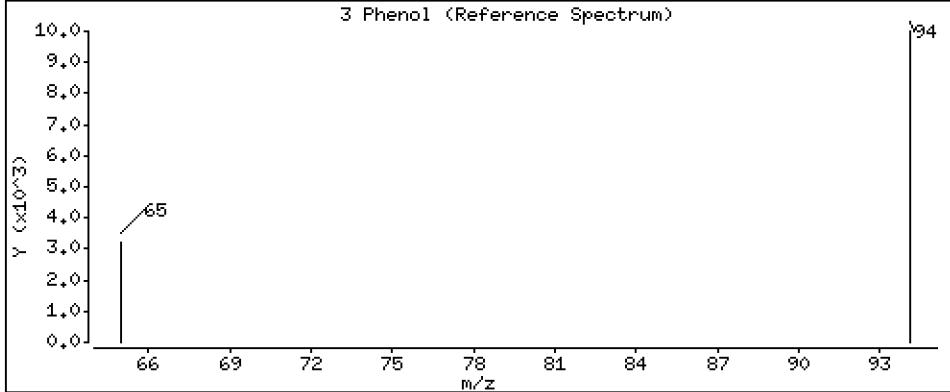
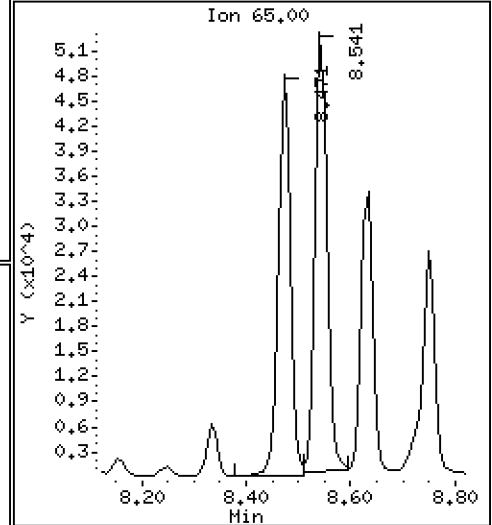
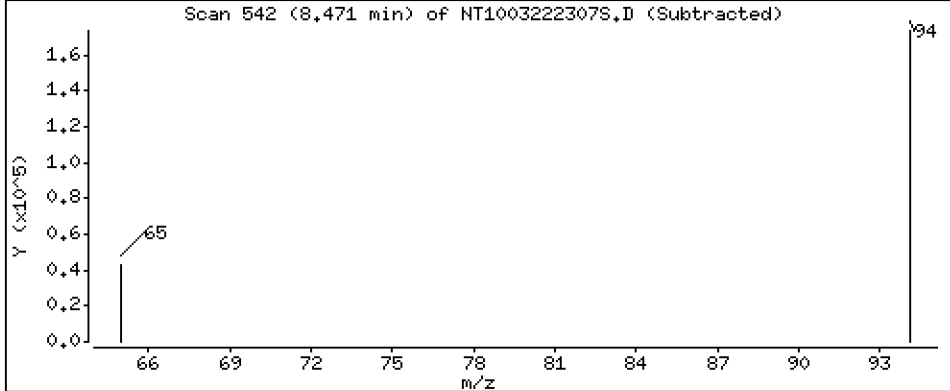
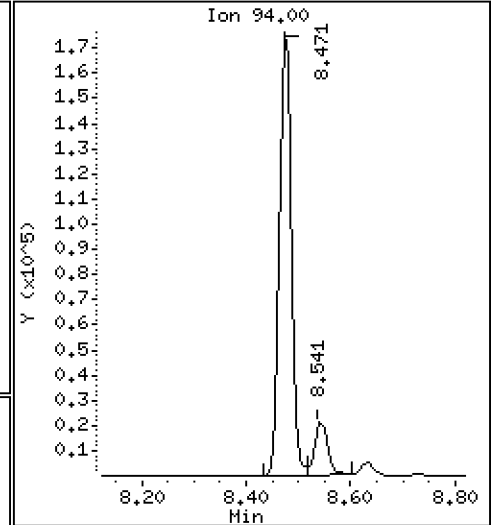
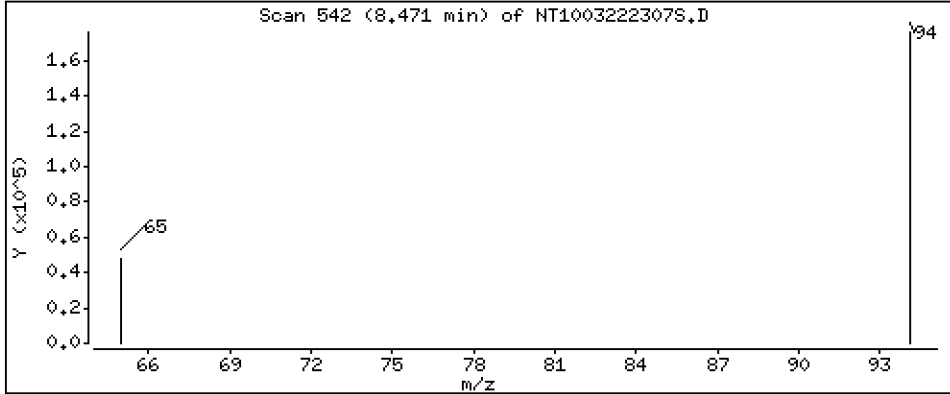
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 3,648 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

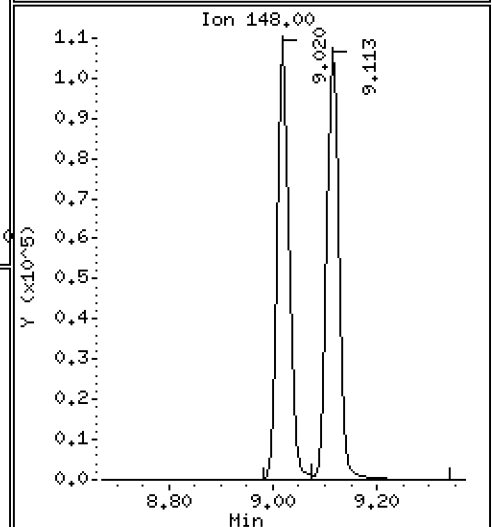
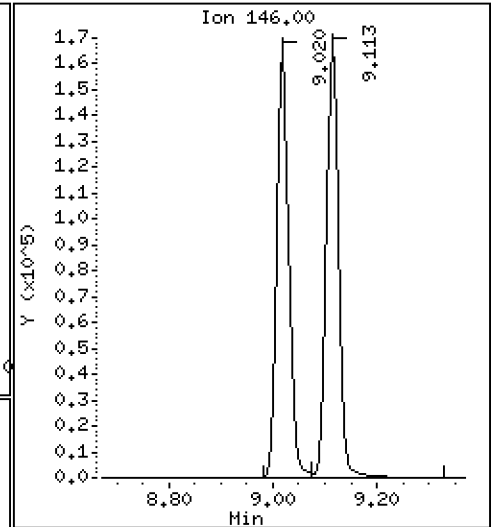
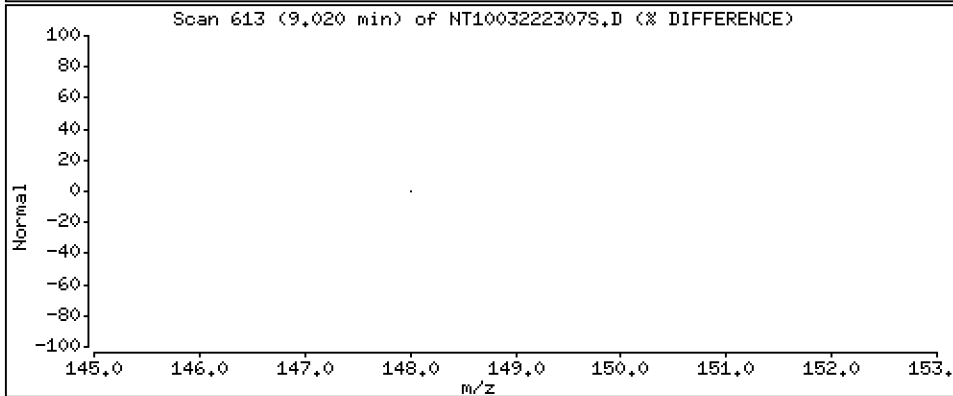
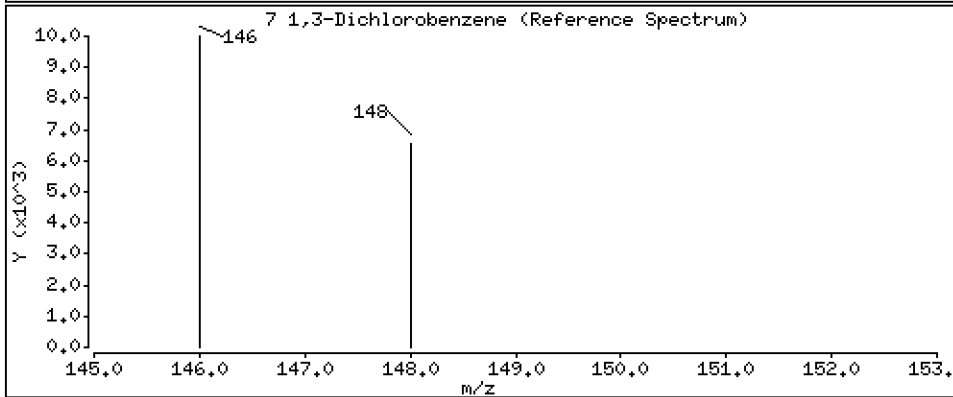
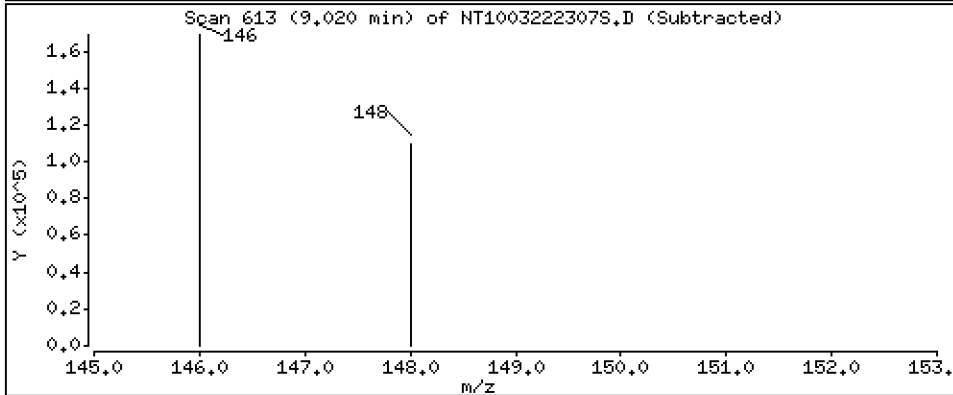
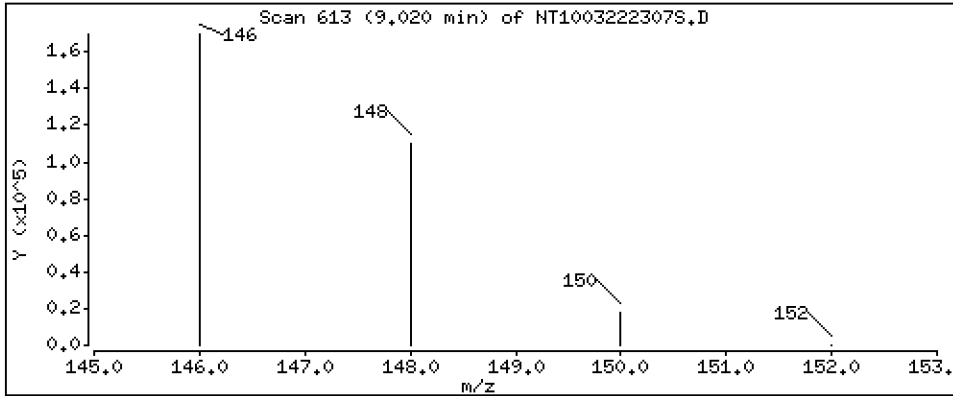
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 3,834 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

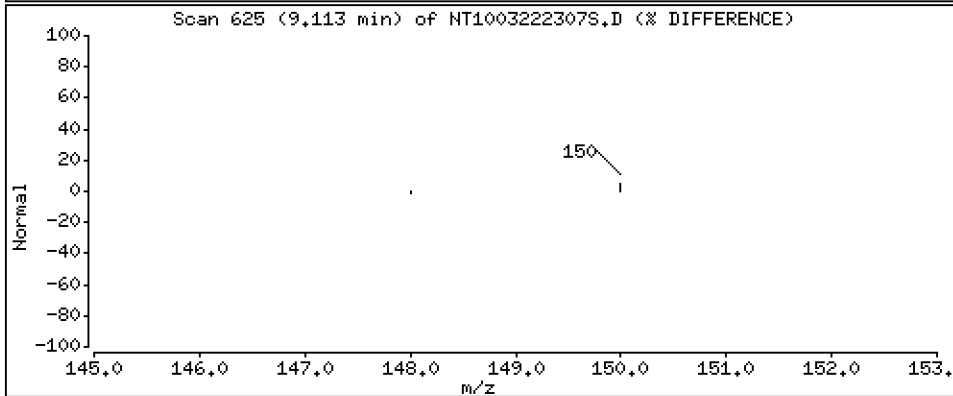
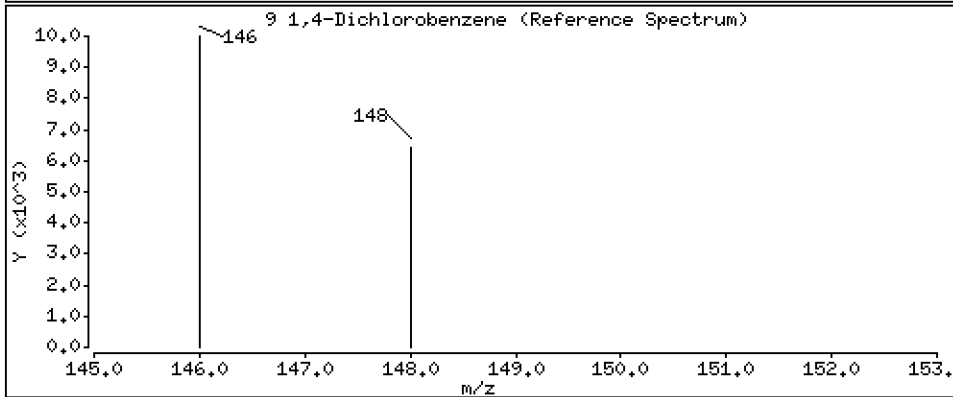
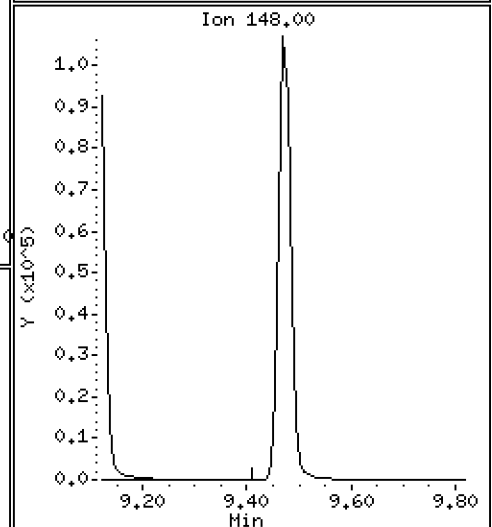
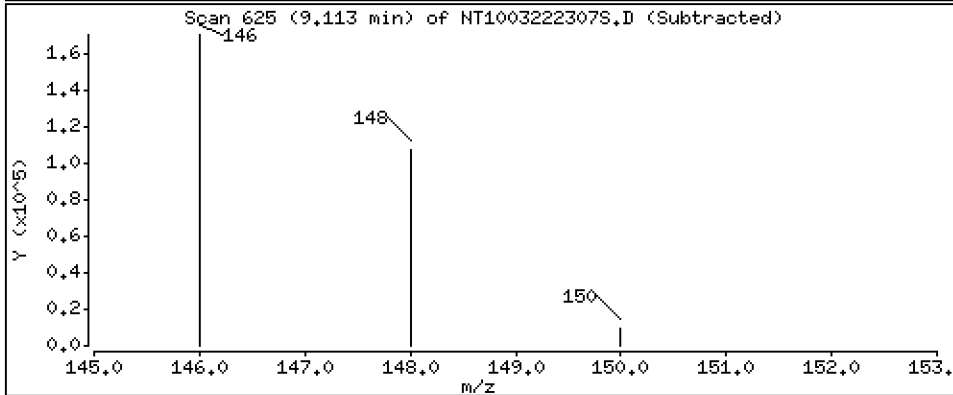
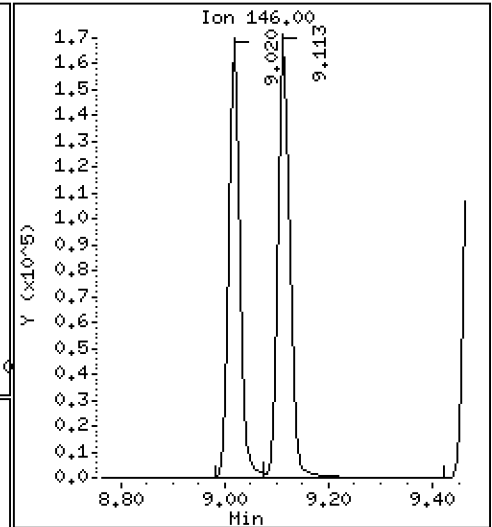
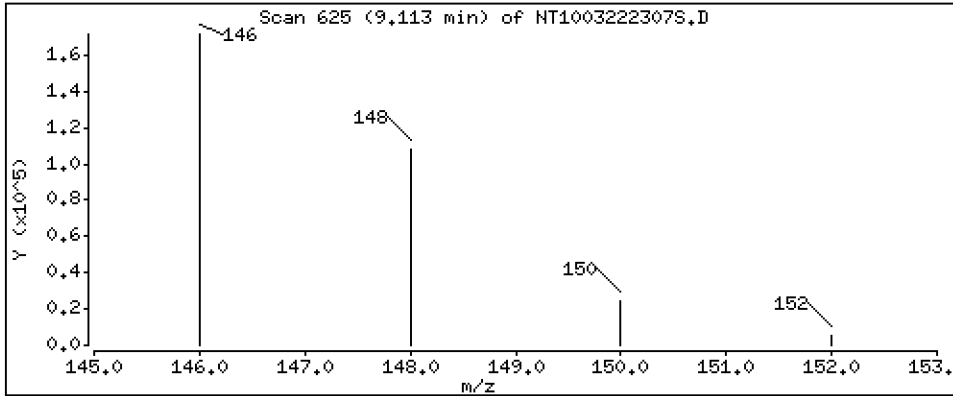
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 3.986 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

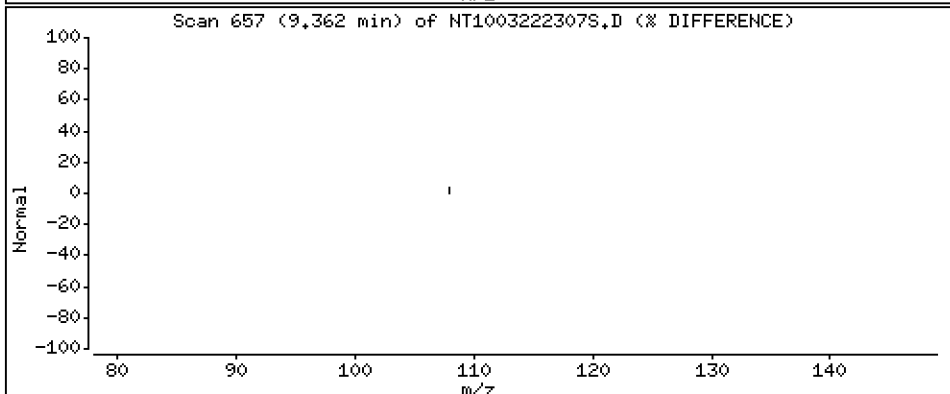
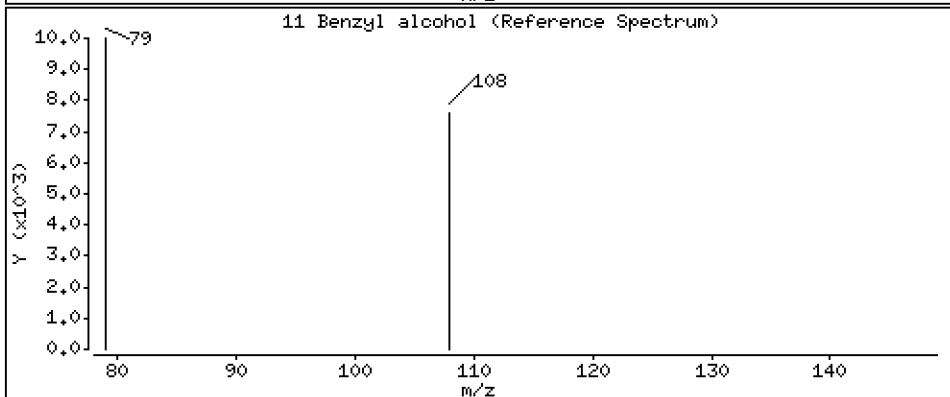
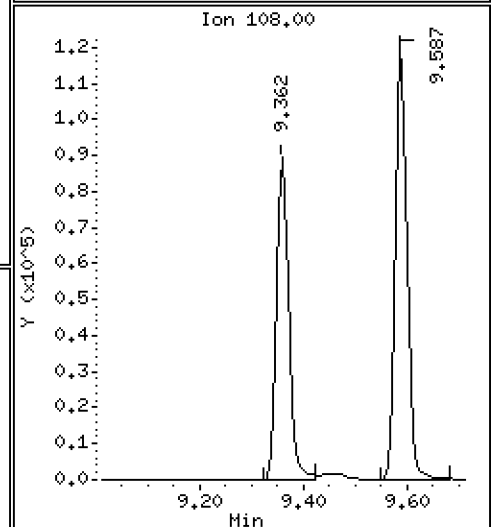
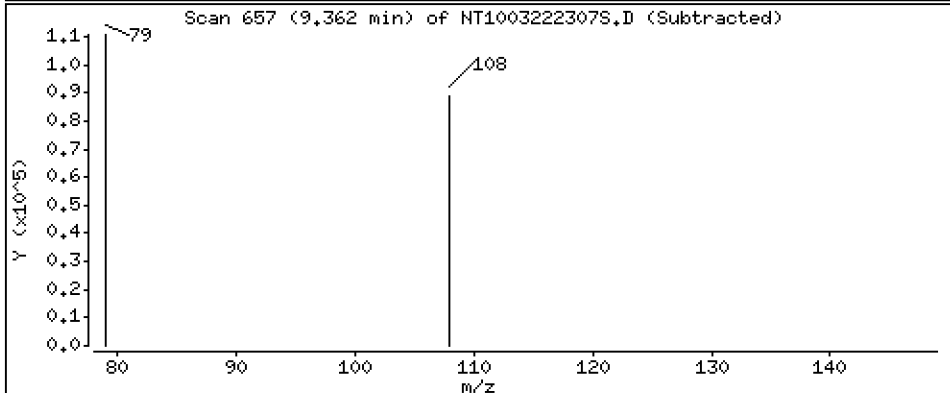
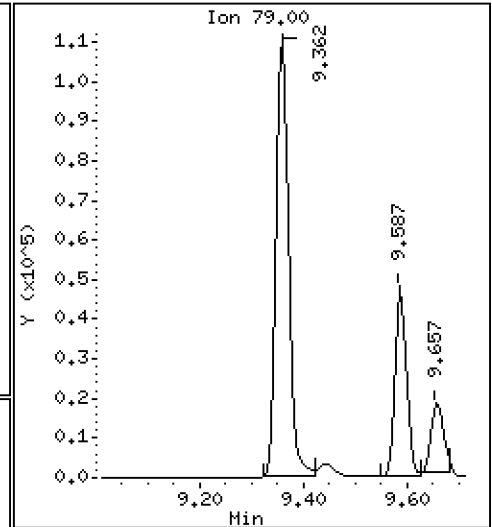
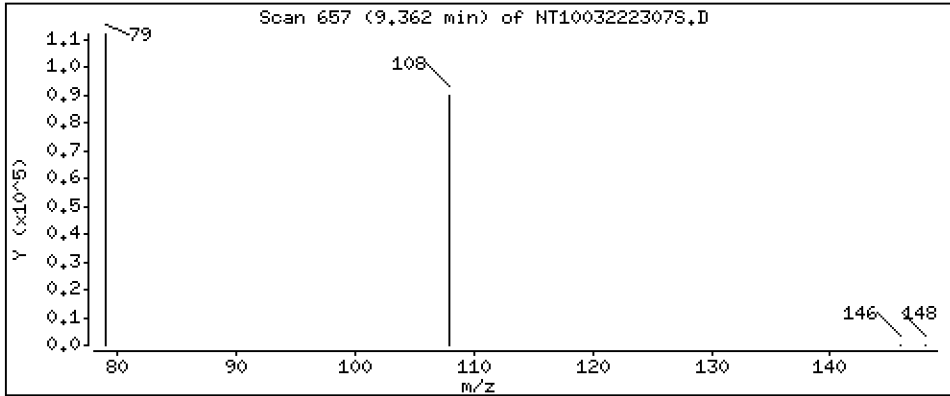
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.207 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

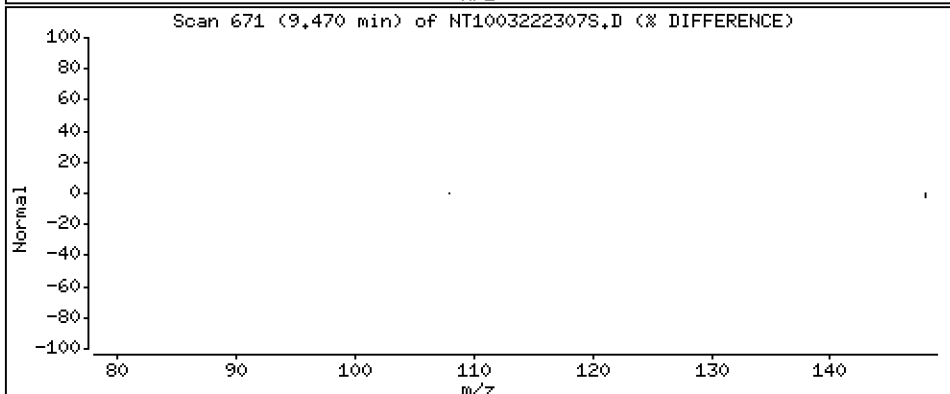
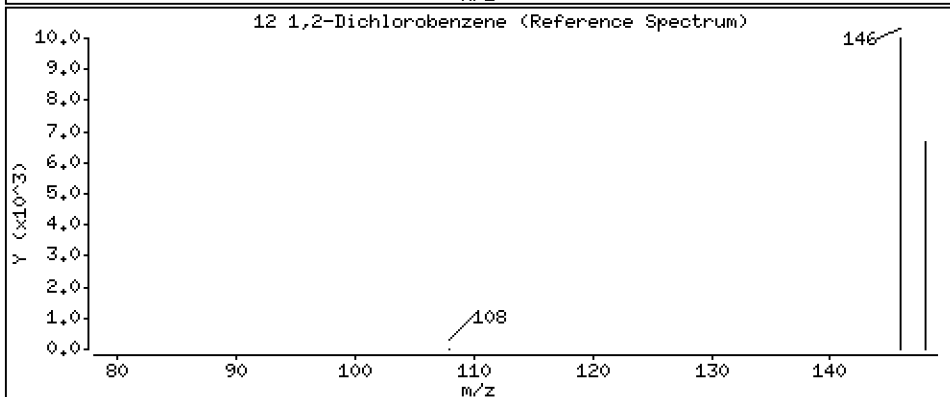
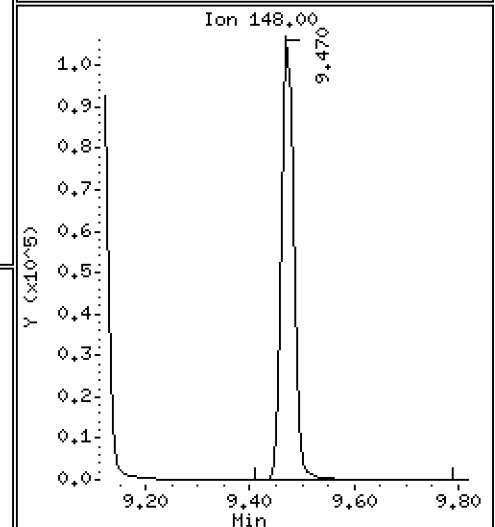
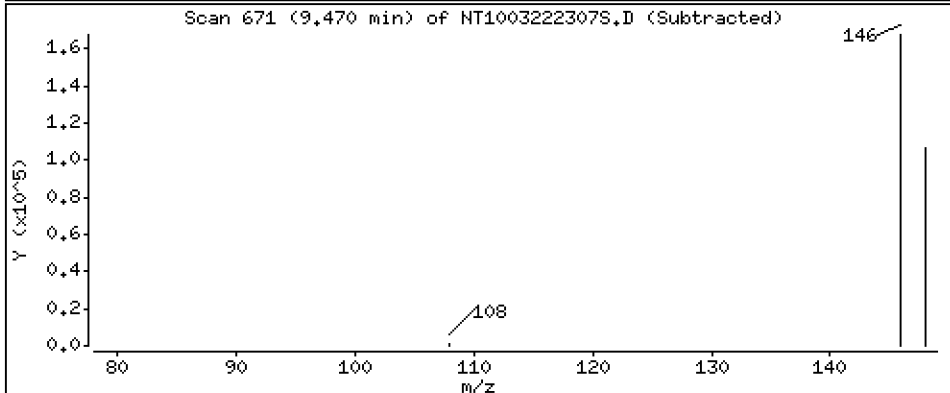
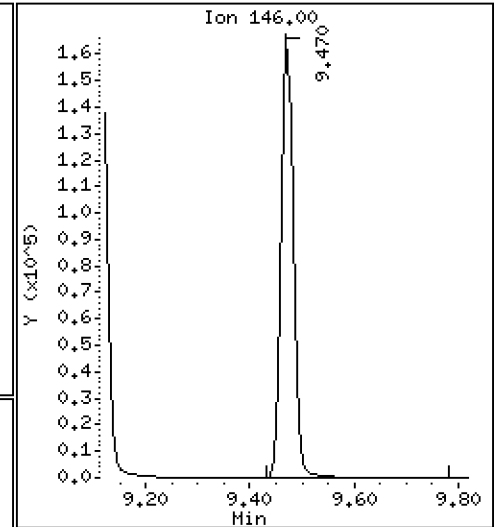
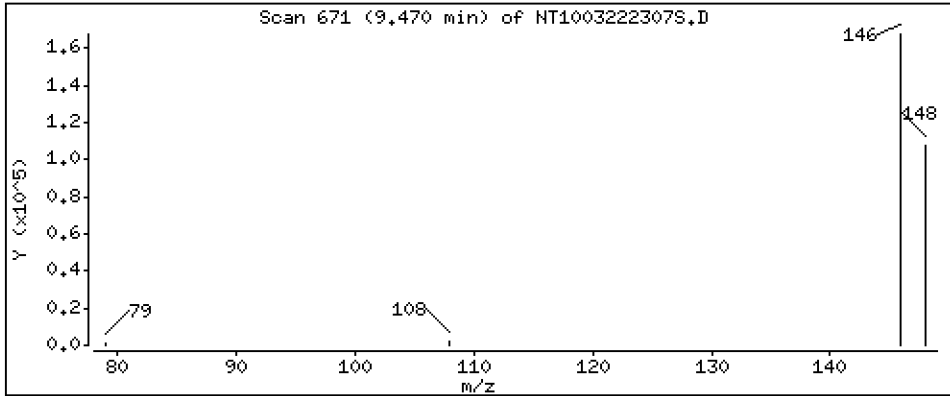
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 3,967 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

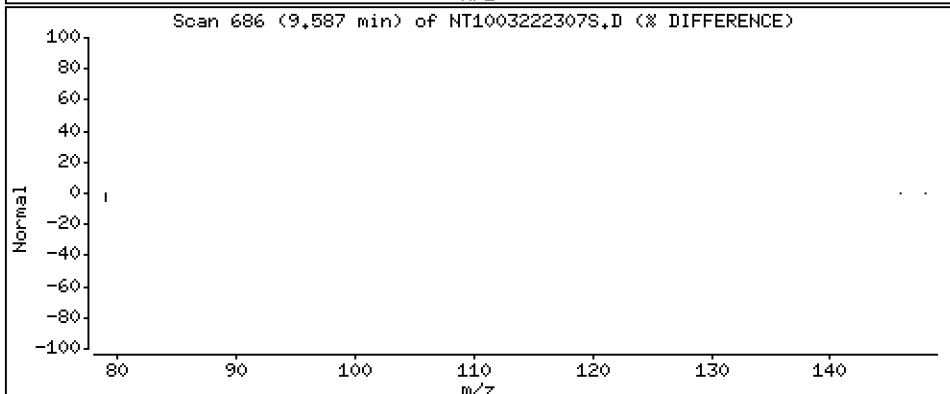
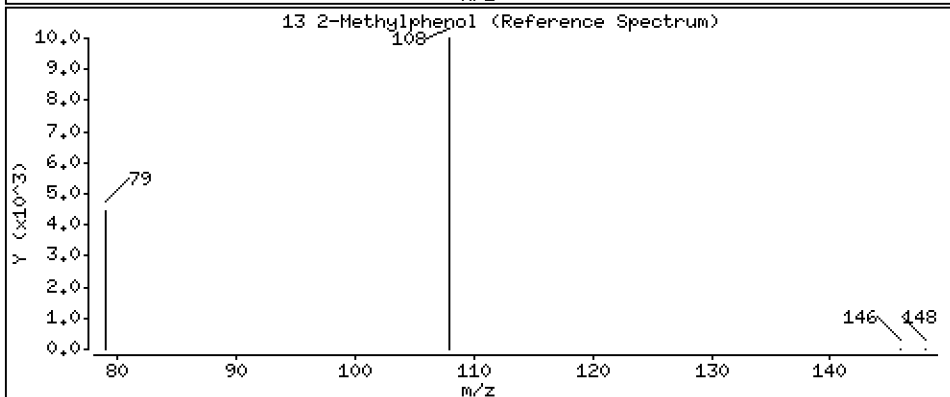
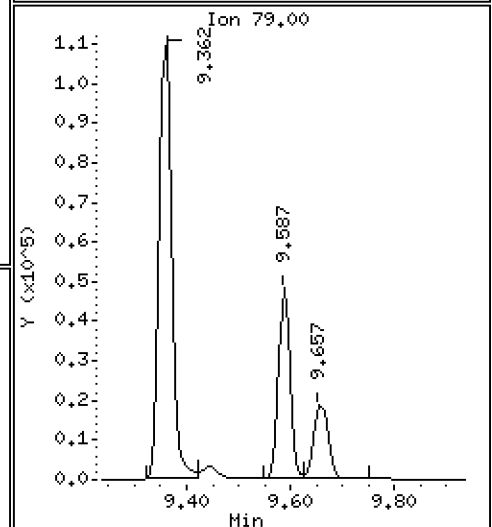
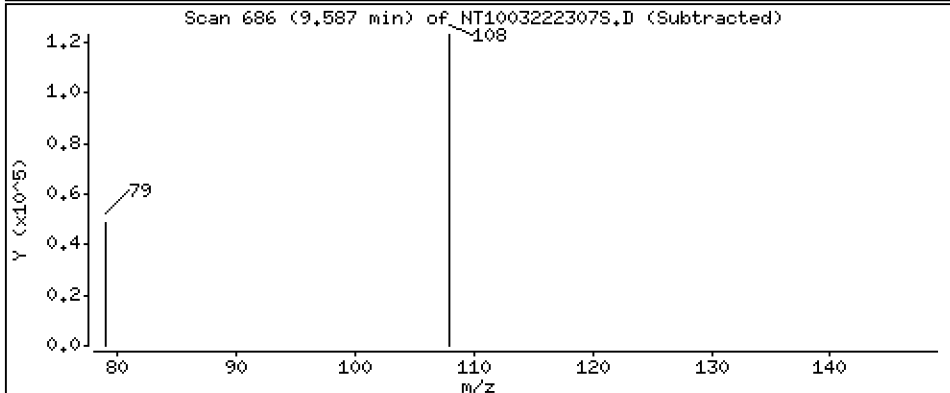
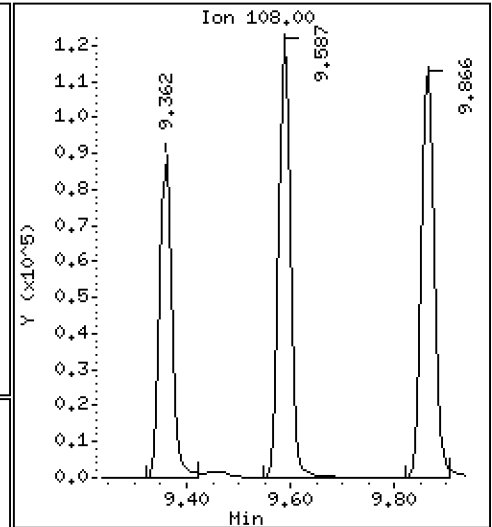
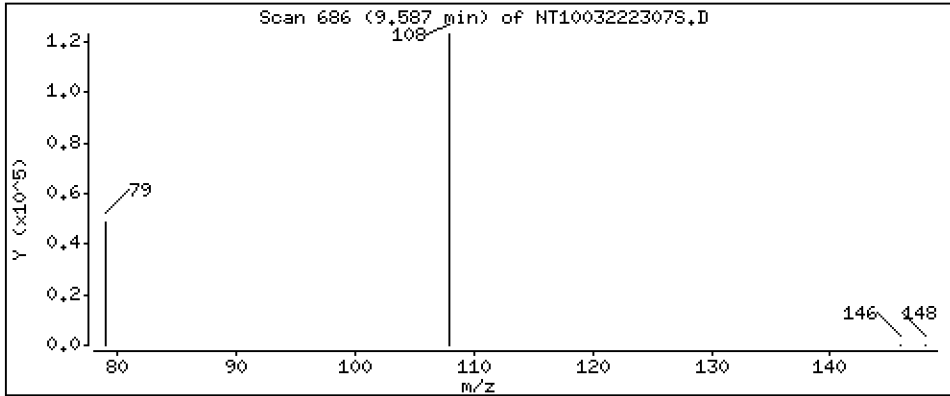
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 3.592 ug/L





Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

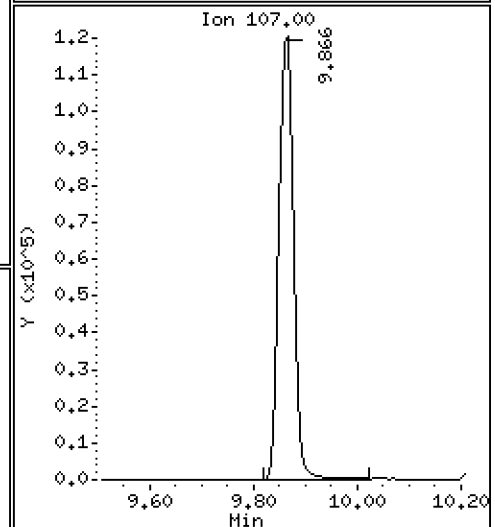
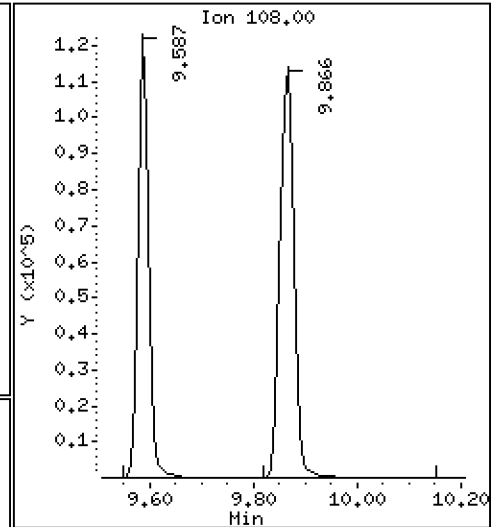
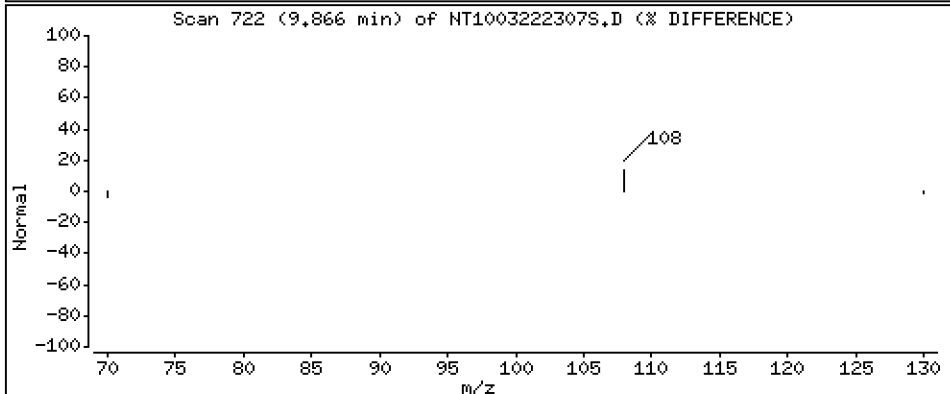
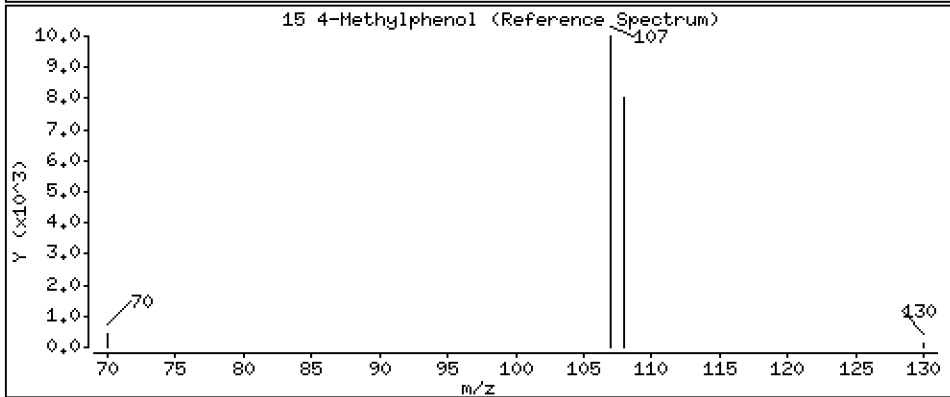
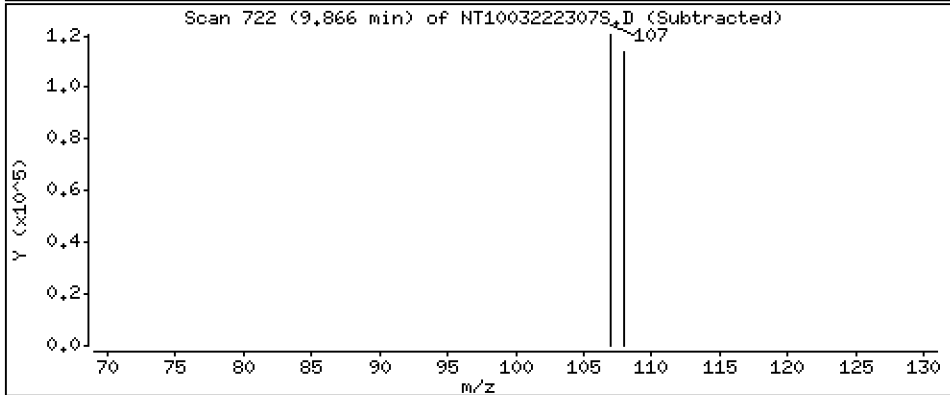
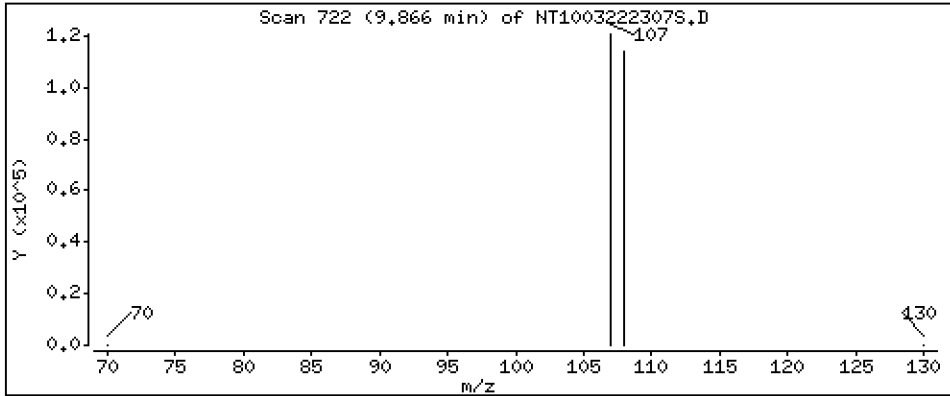
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 4.004 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

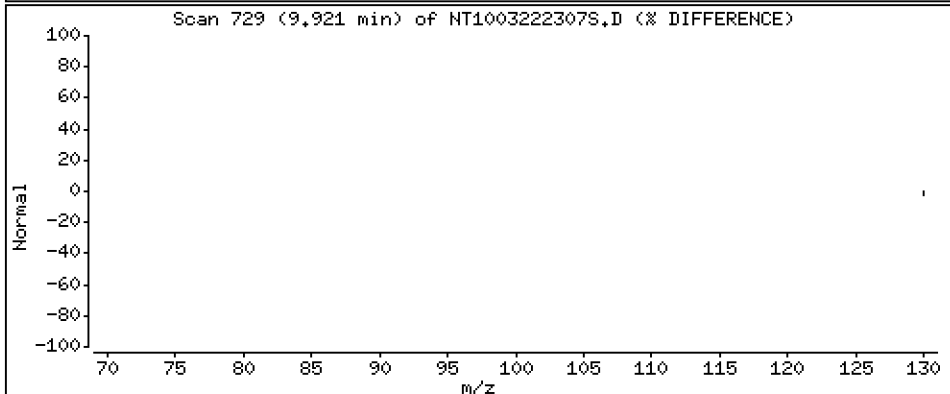
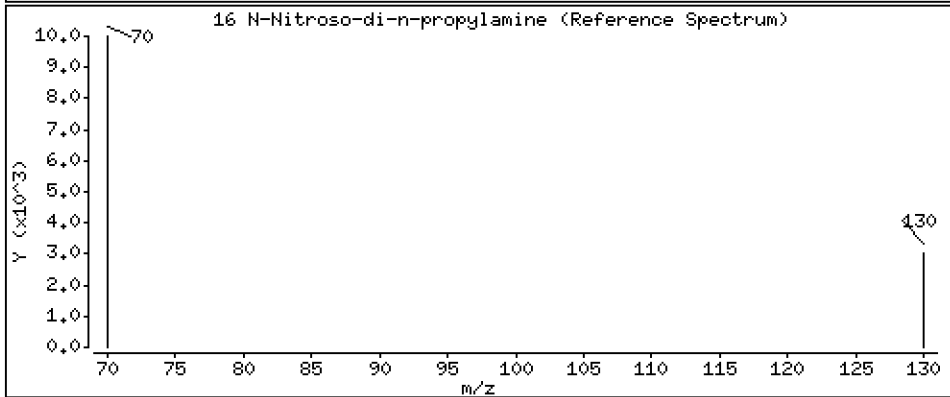
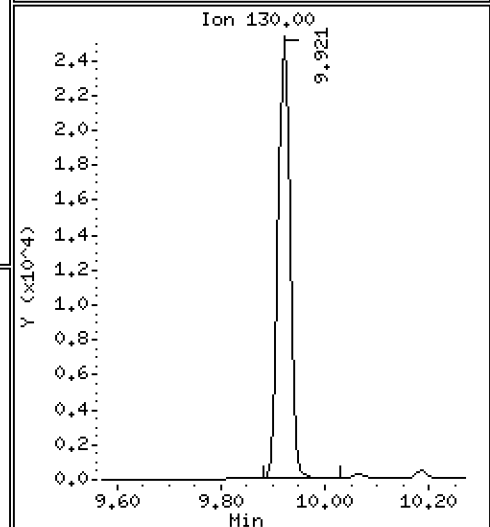
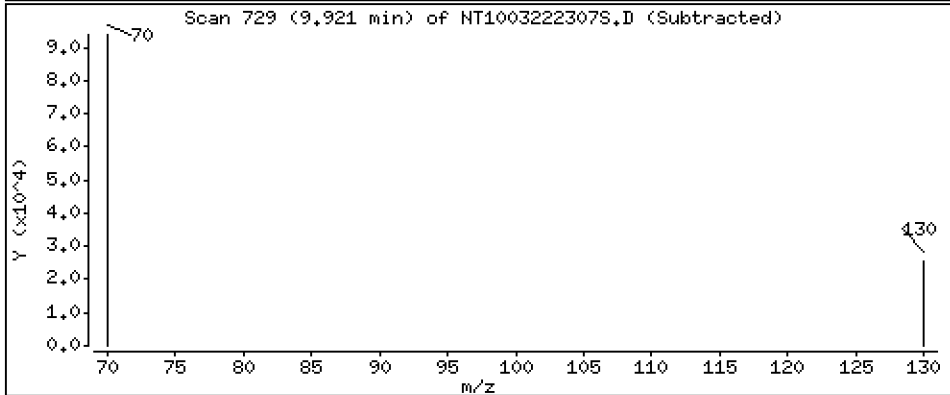
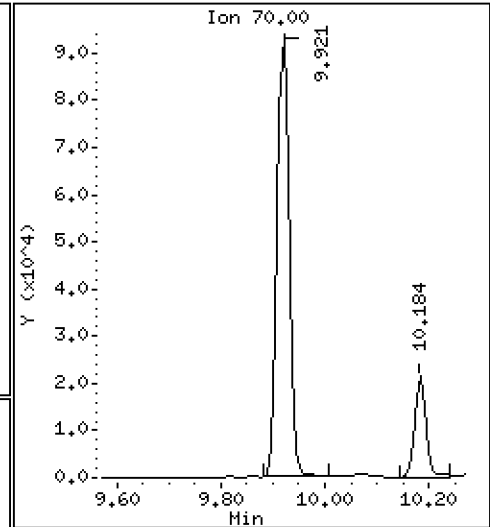
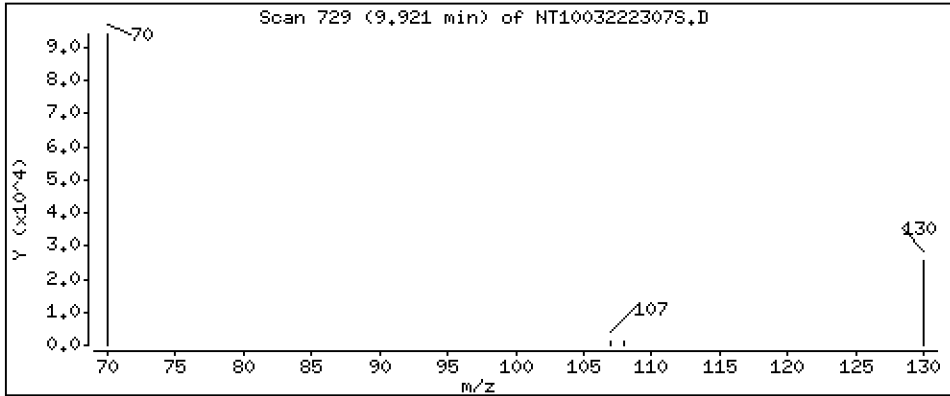
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 3,866 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

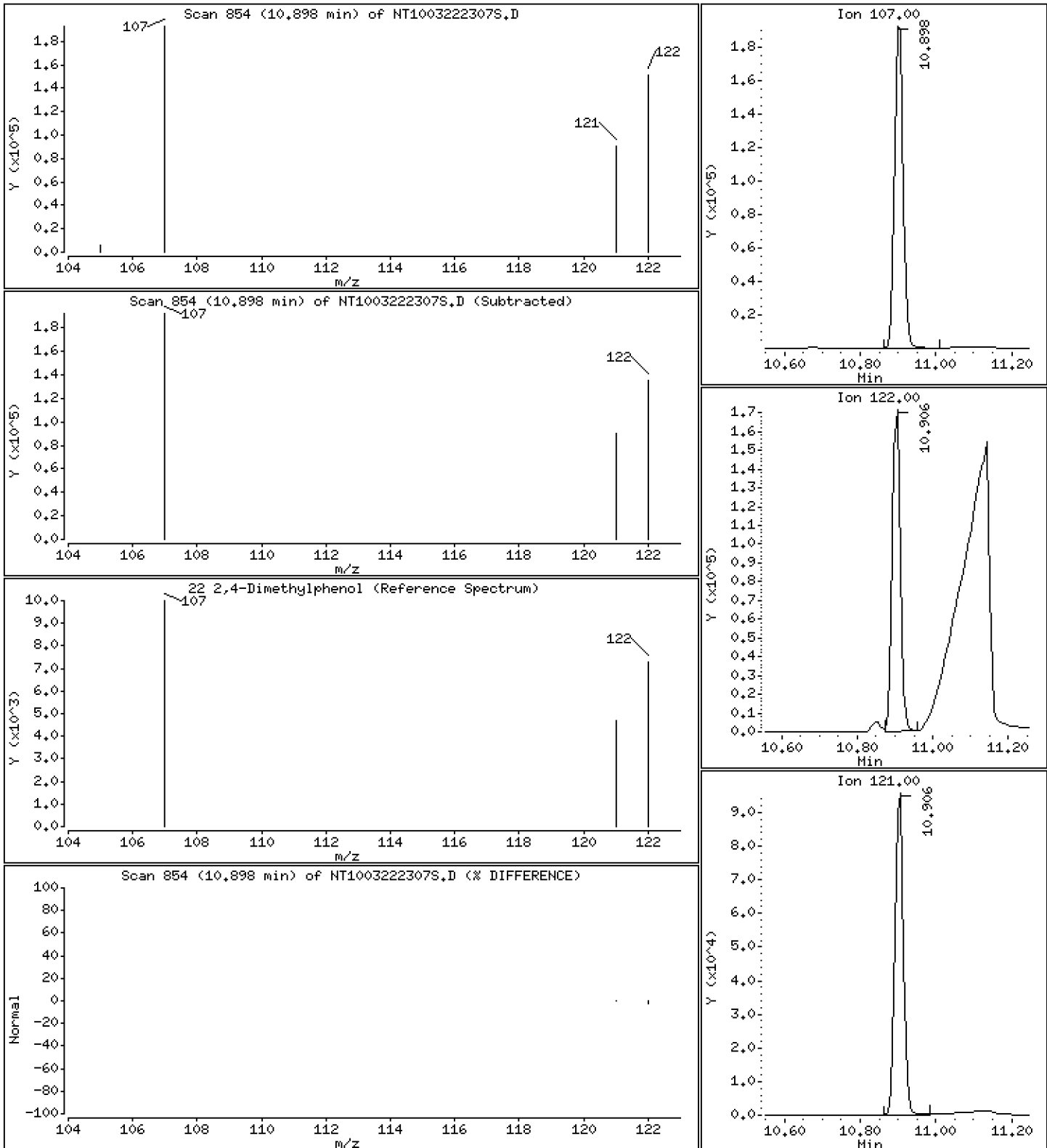
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 5.489 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

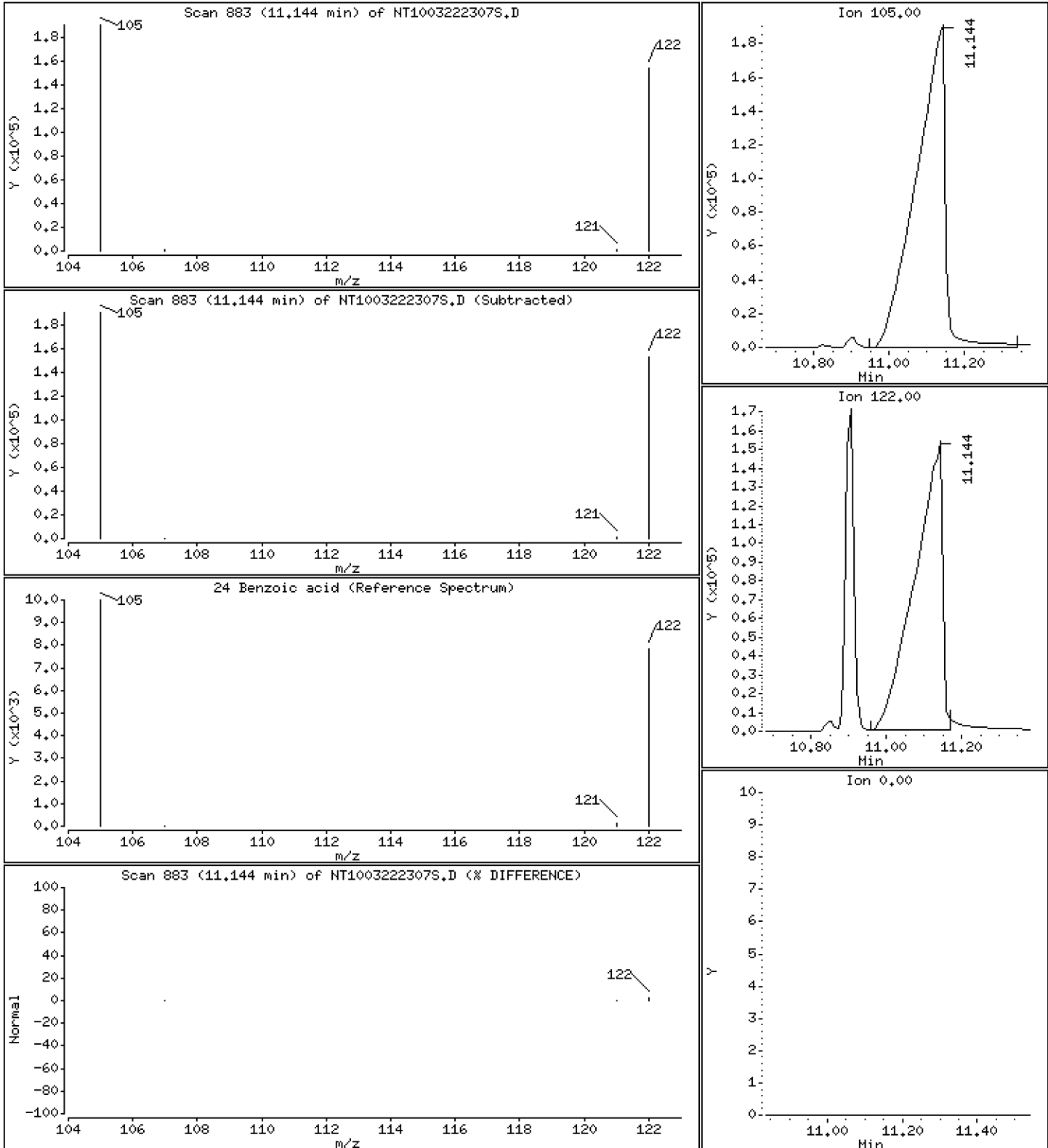
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 29,34 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

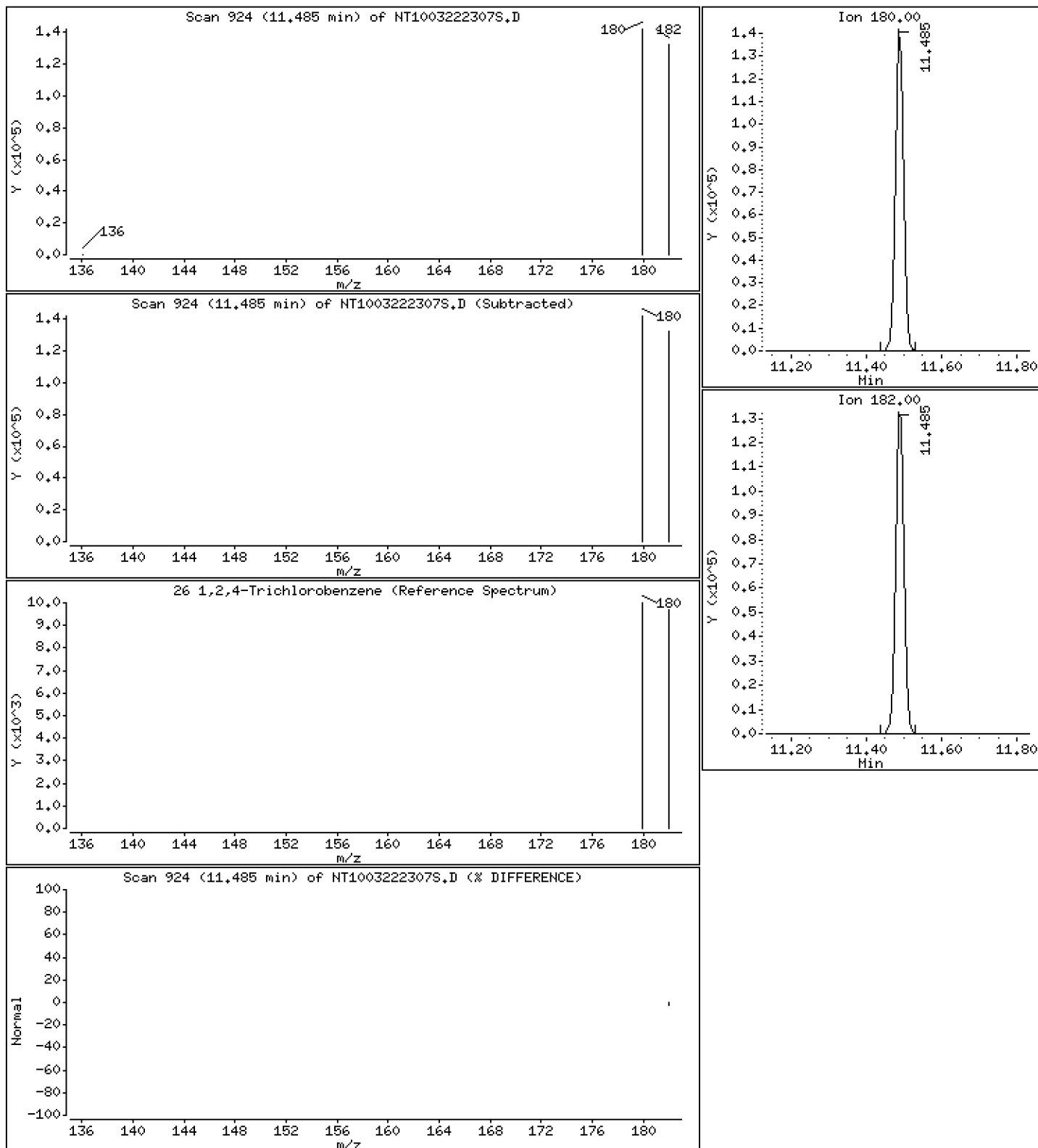
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 3,996 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

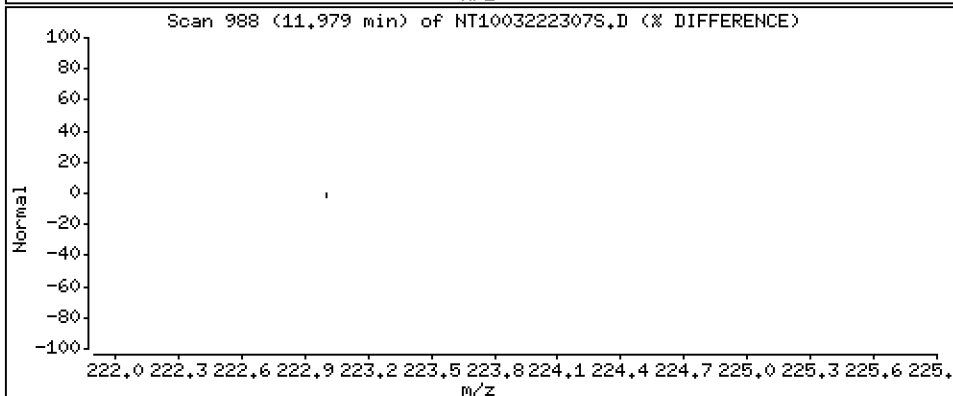
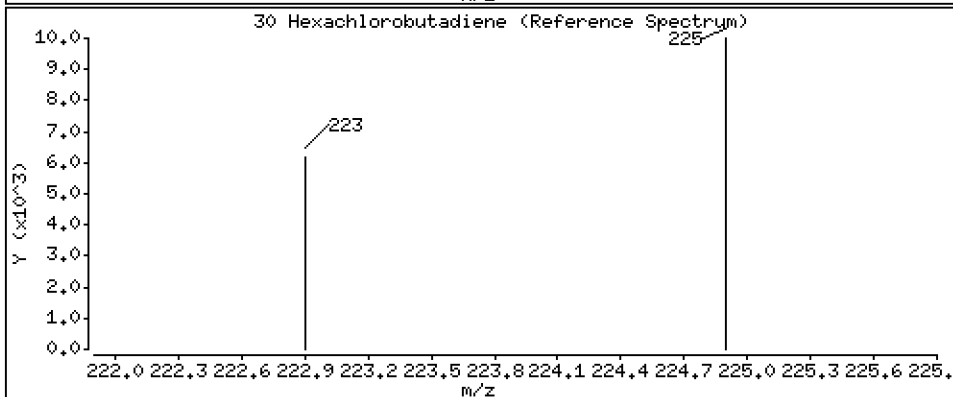
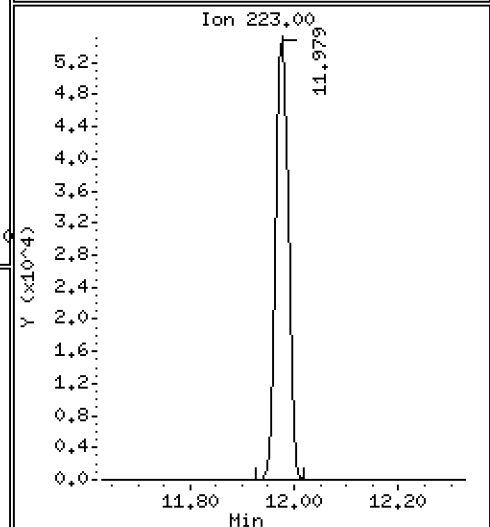
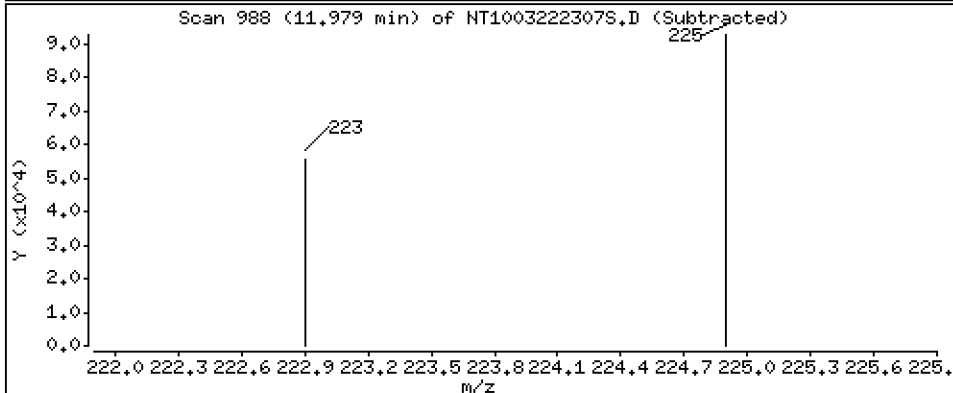
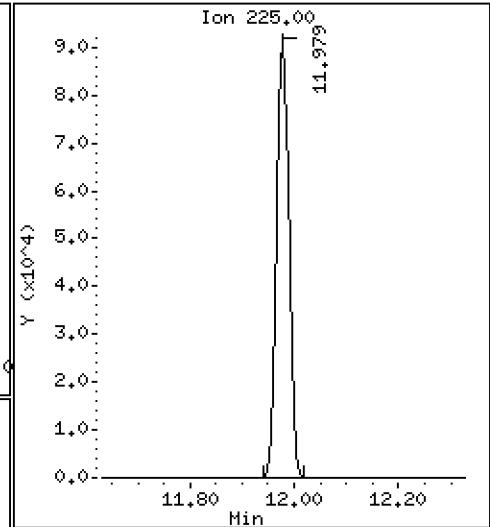
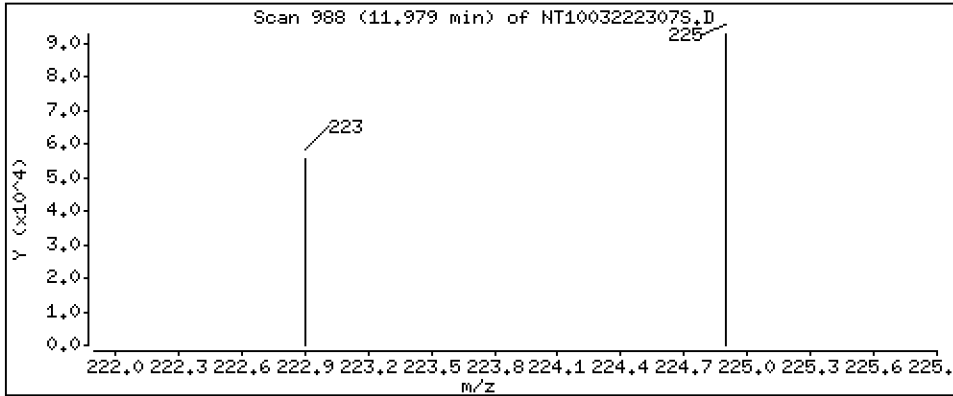
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,209 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

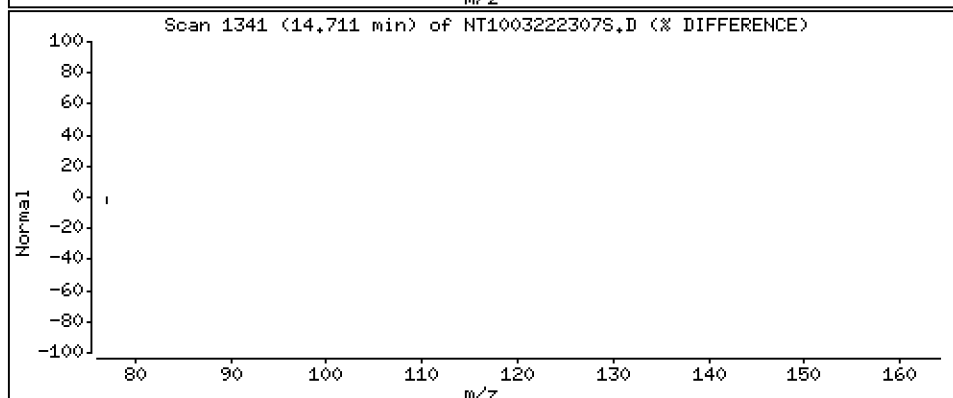
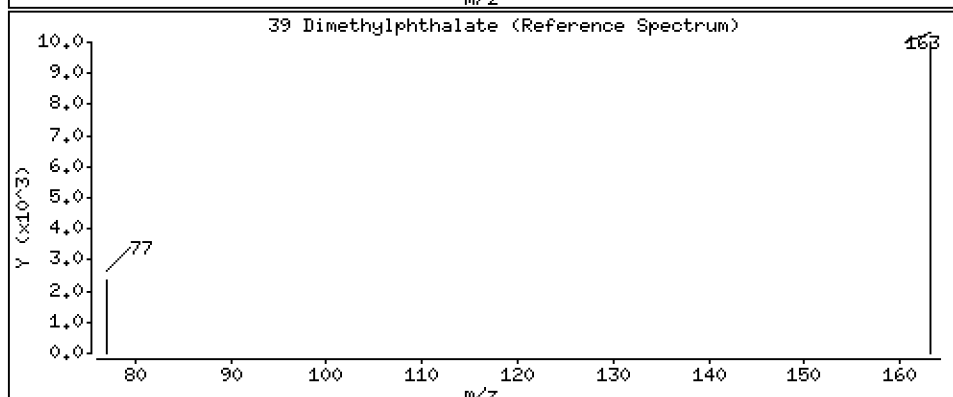
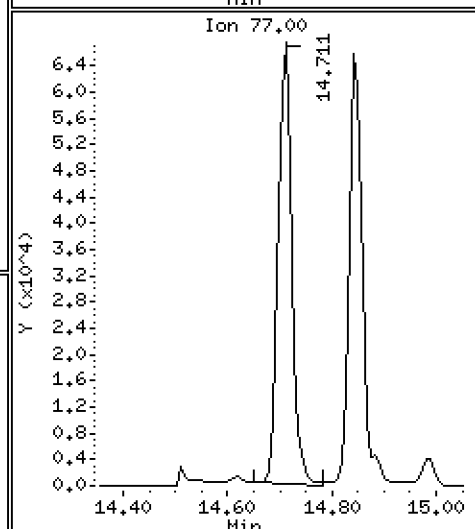
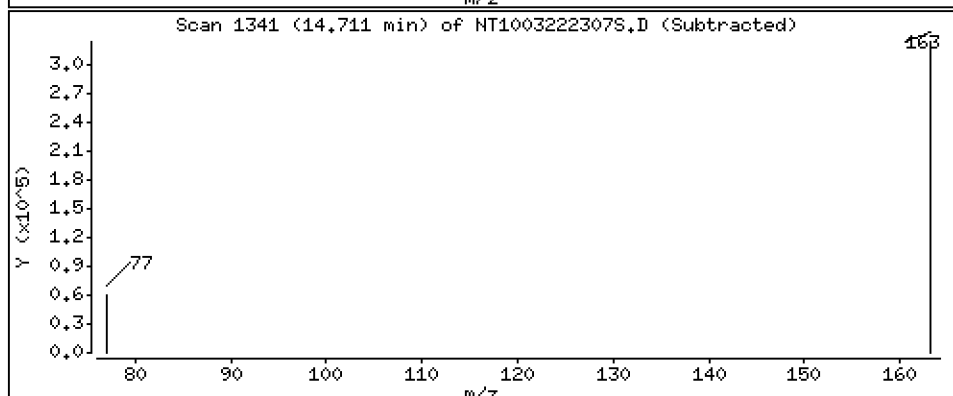
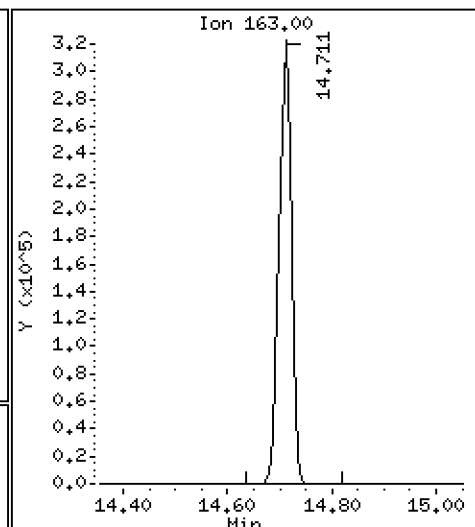
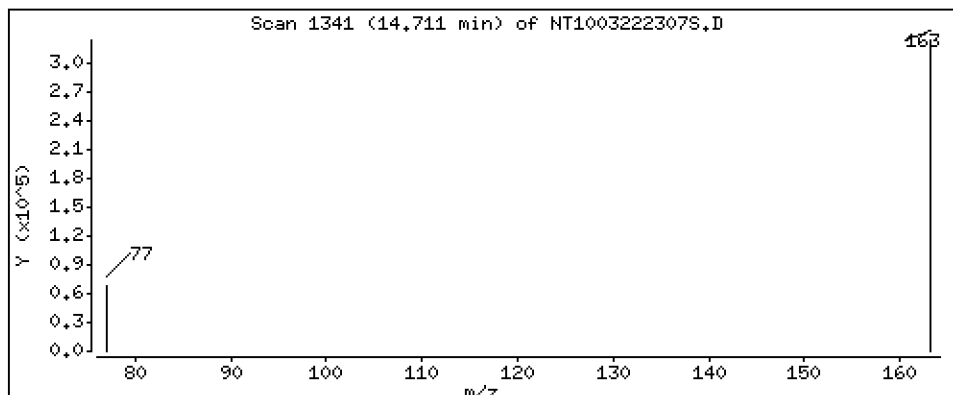
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,100 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

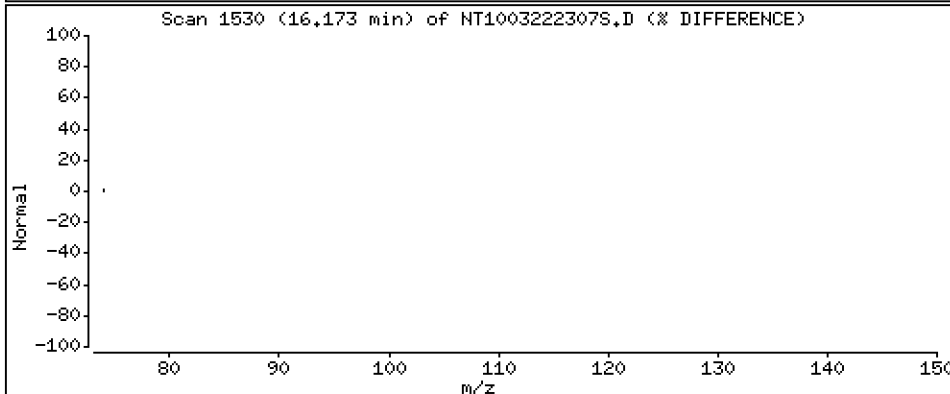
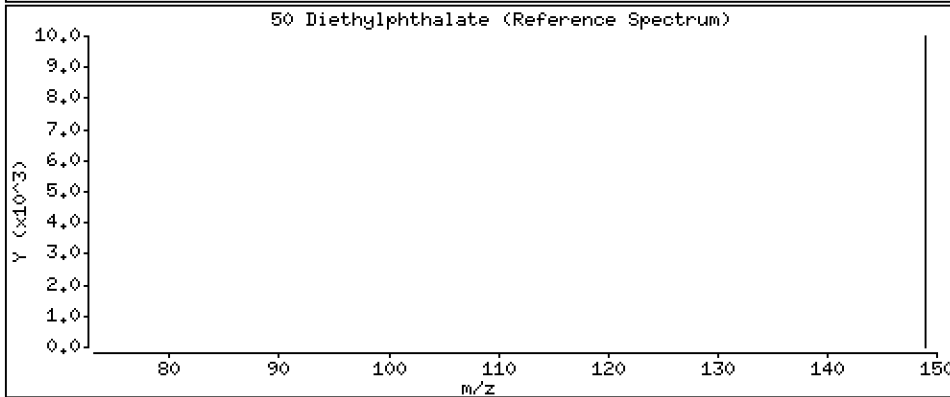
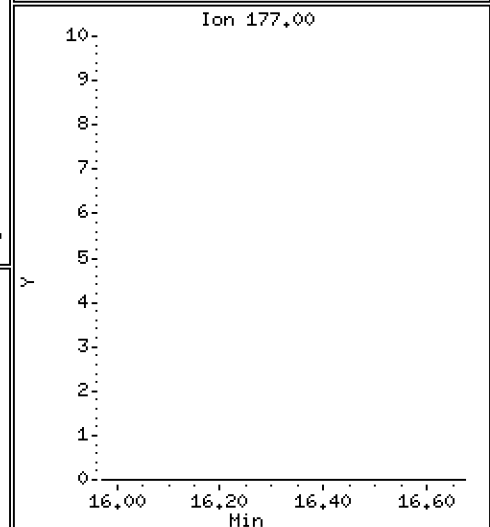
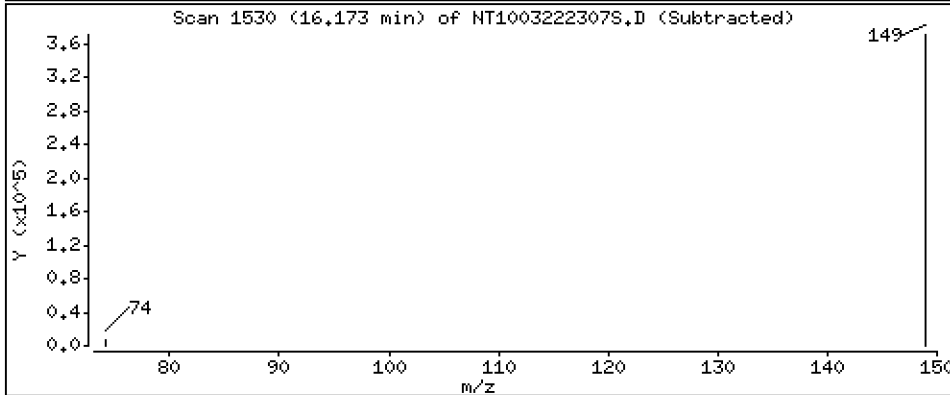
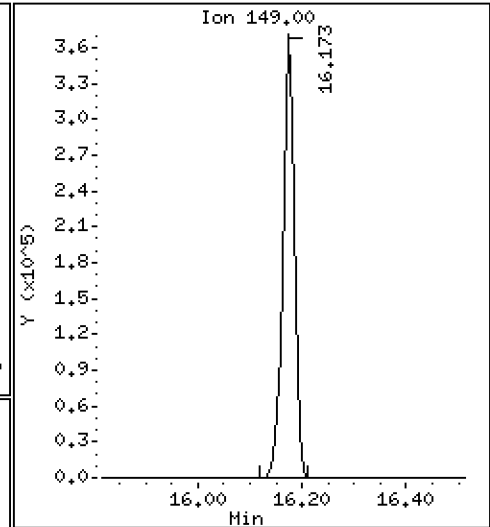
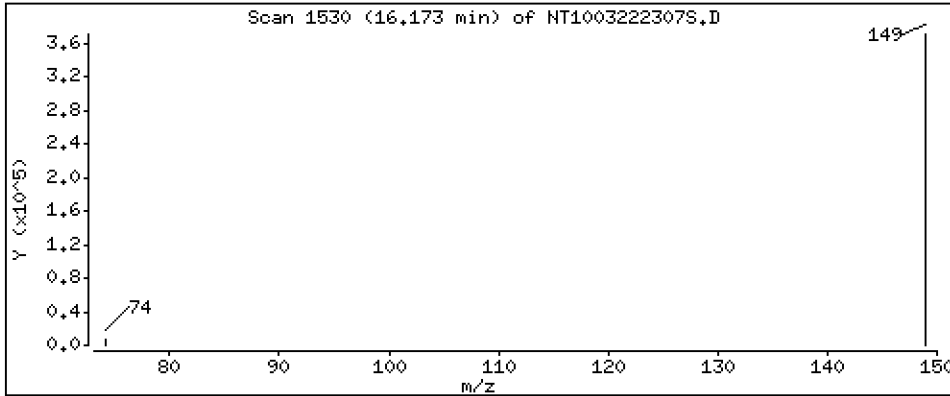
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,511 ug/L





Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

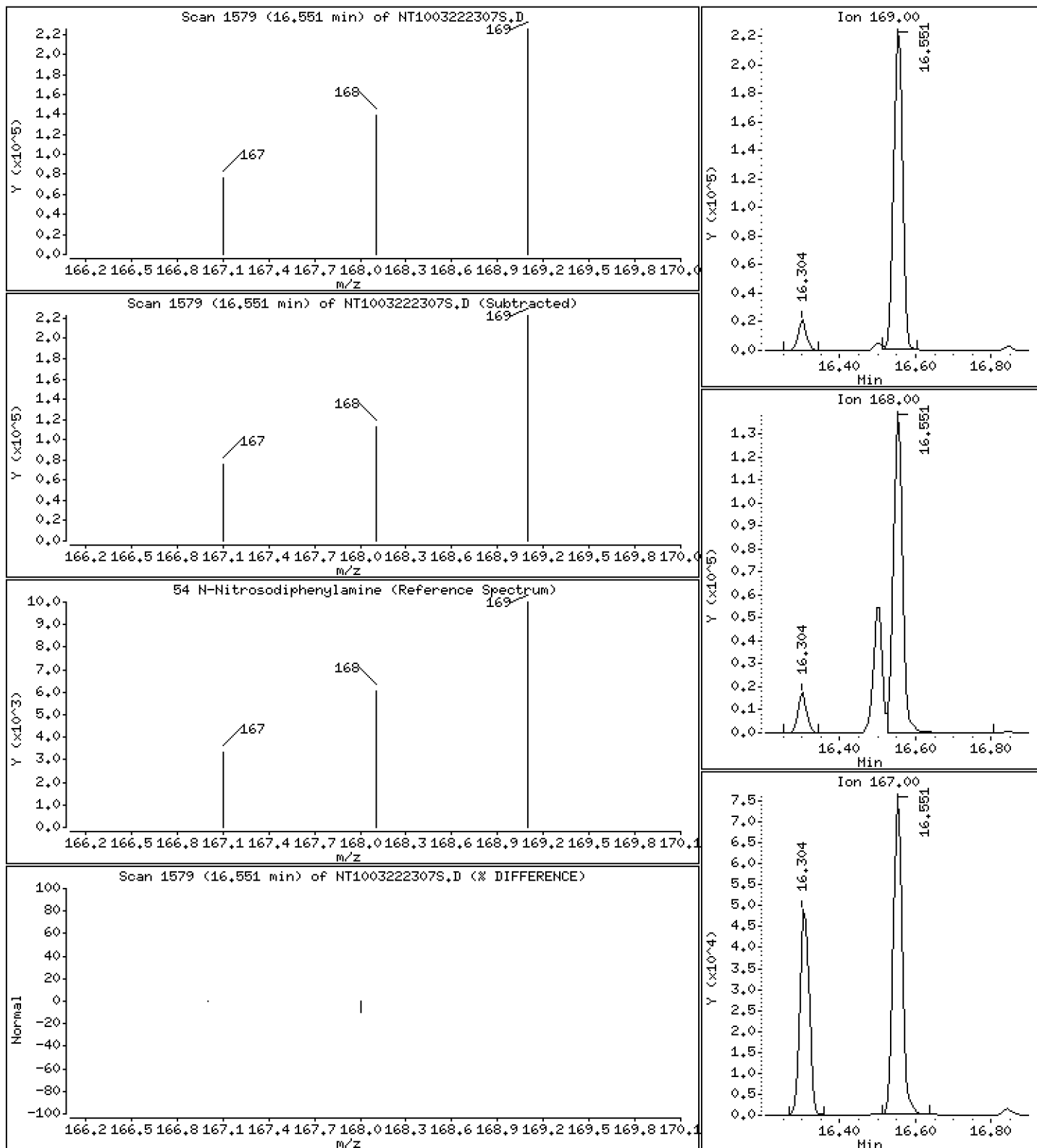
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,109 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

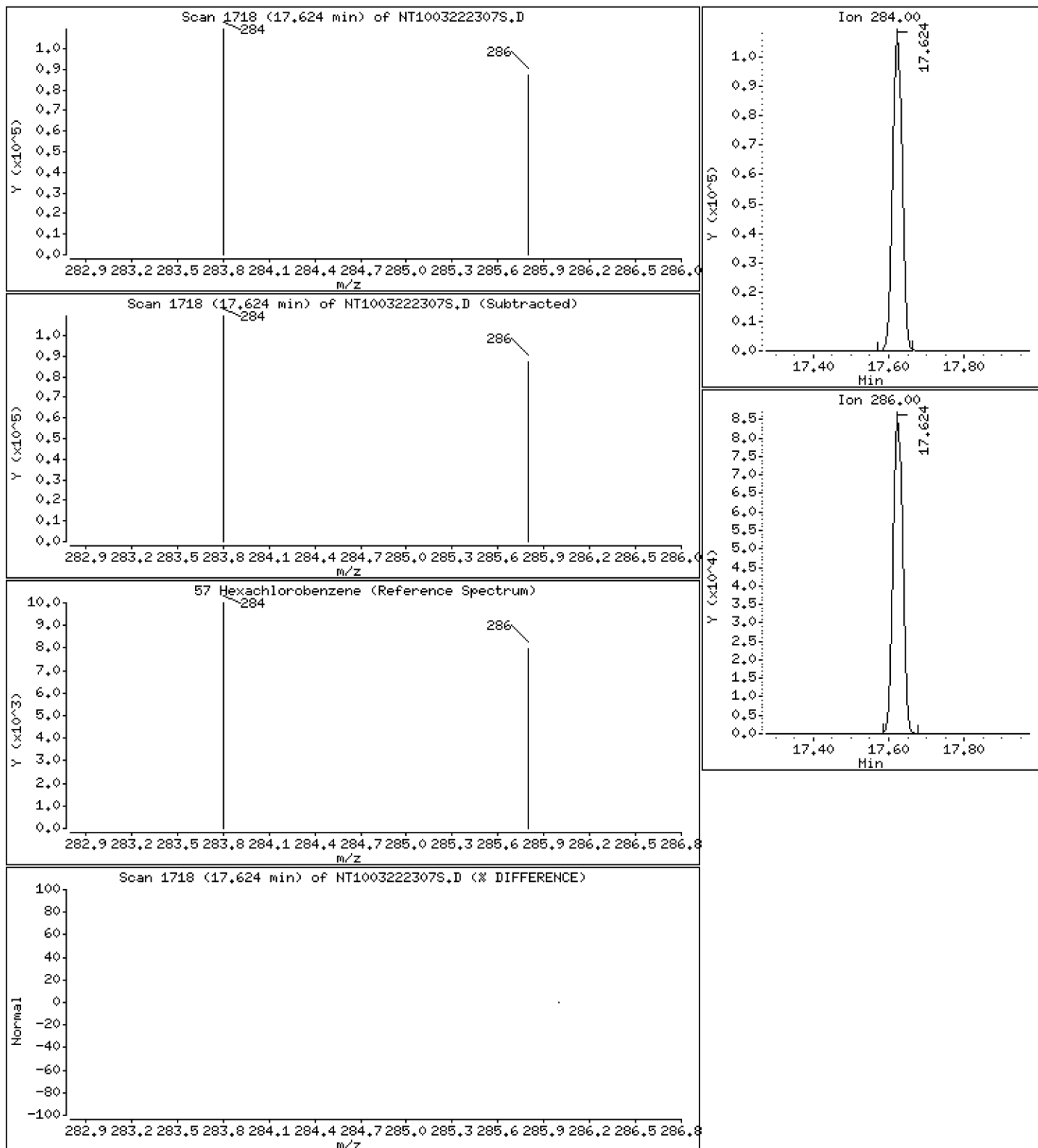
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,712 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

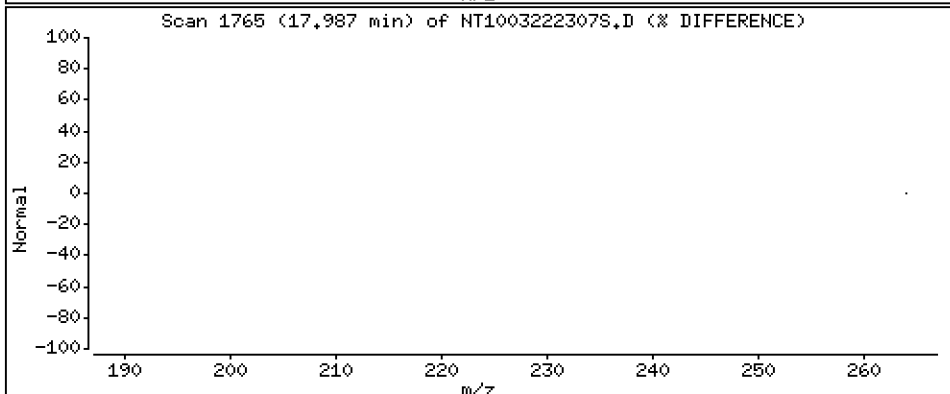
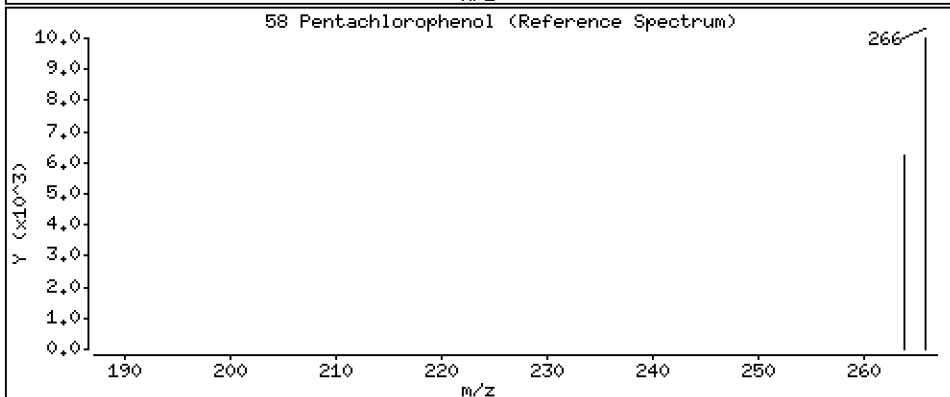
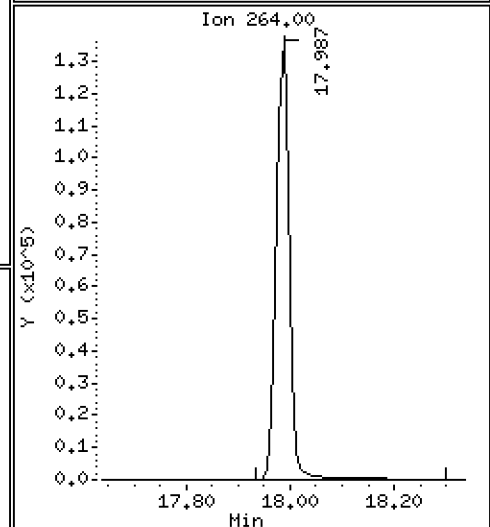
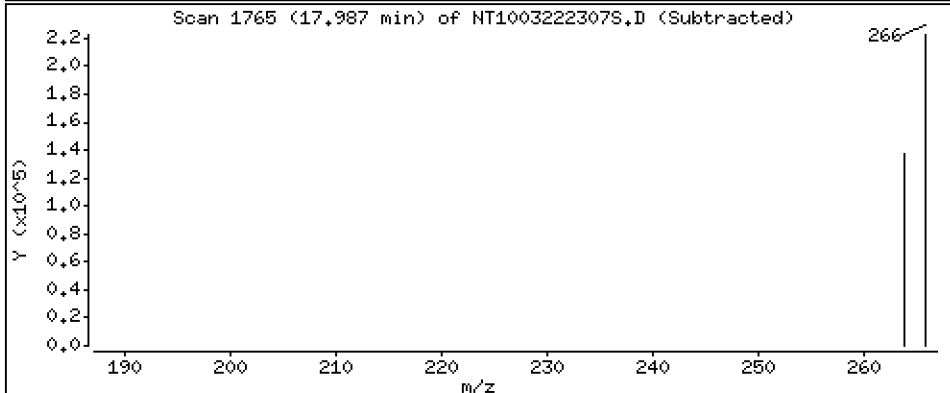
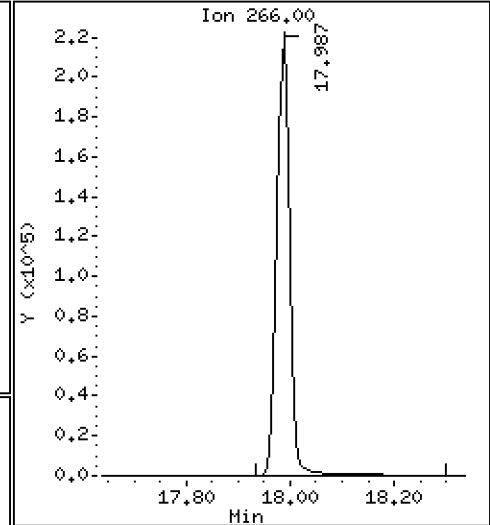
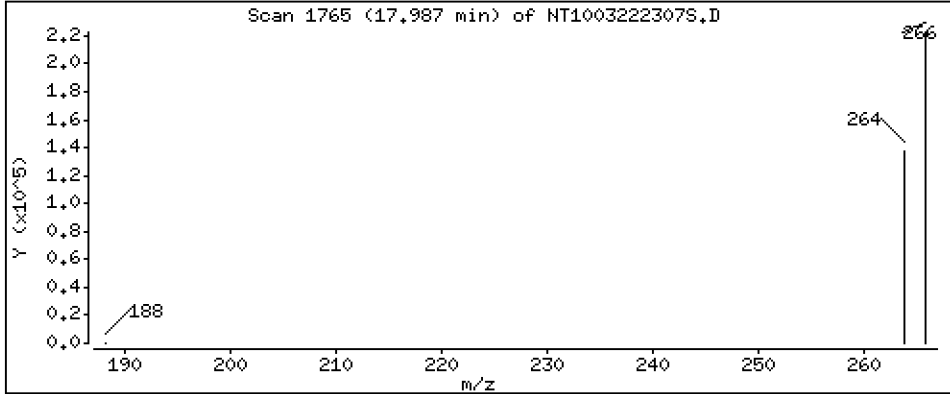
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 15,58 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

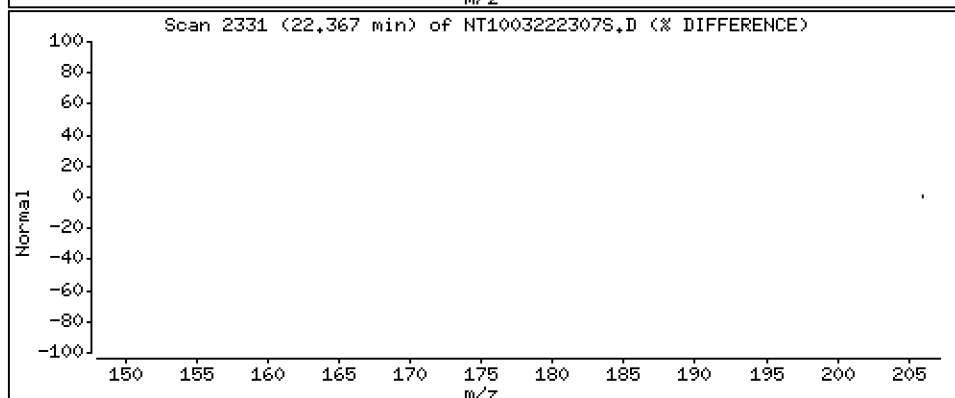
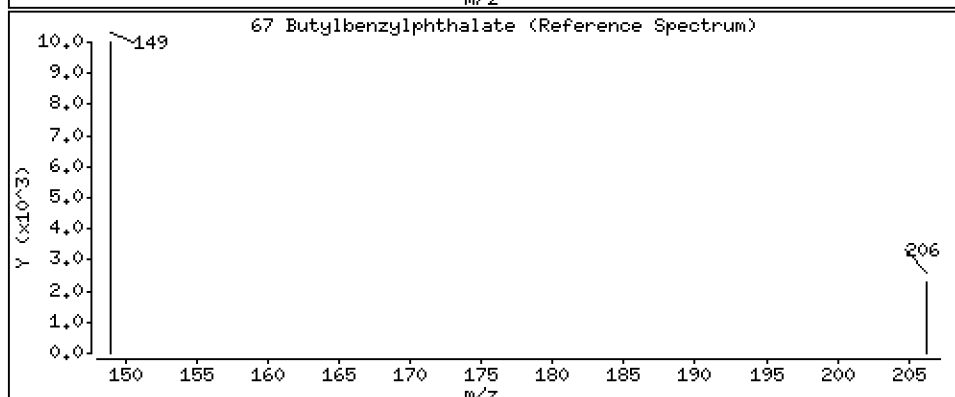
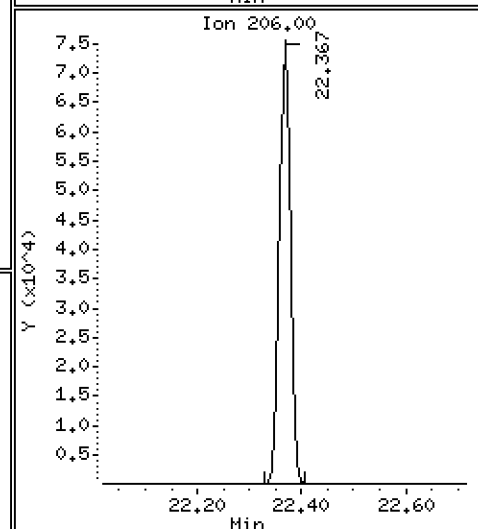
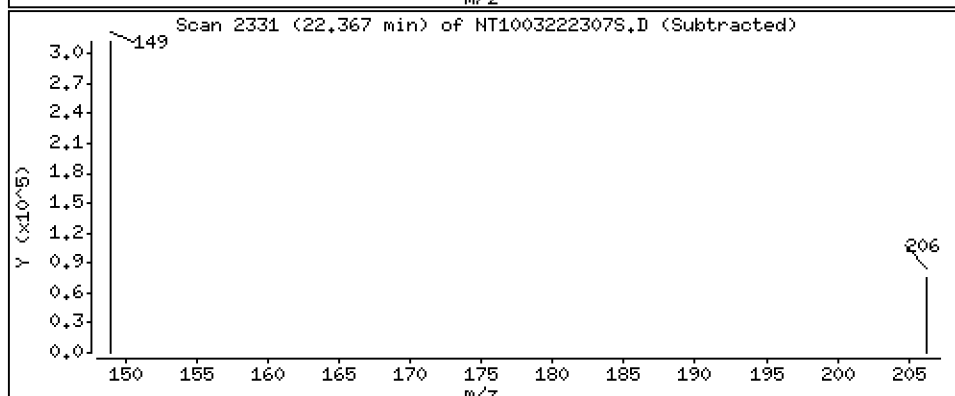
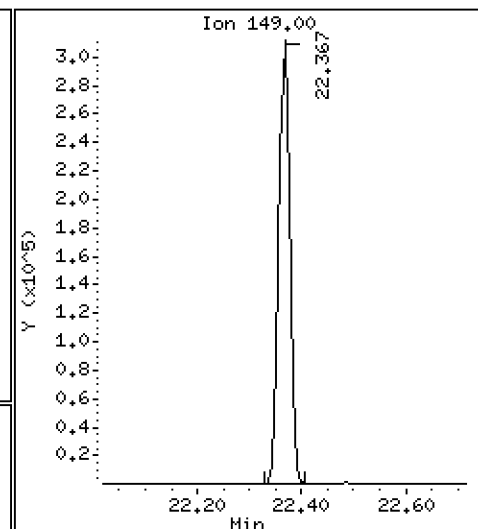
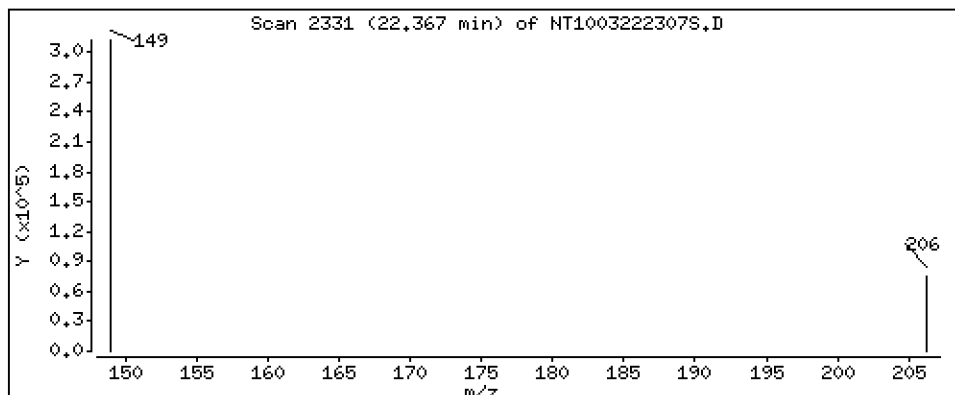
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,381 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

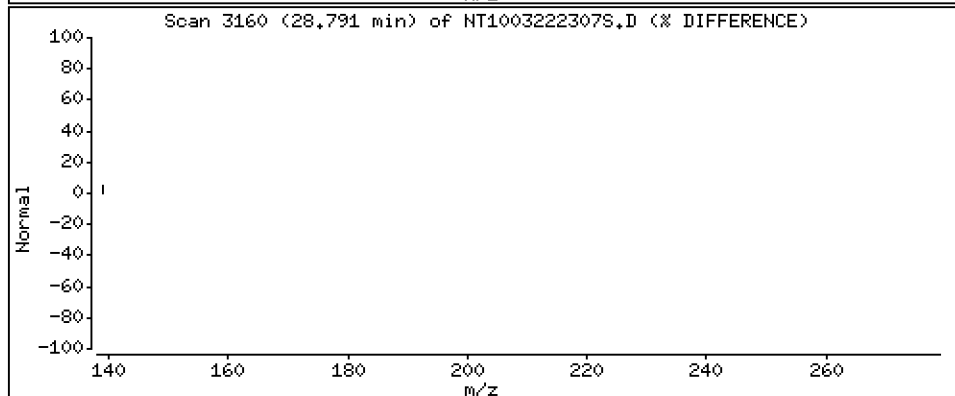
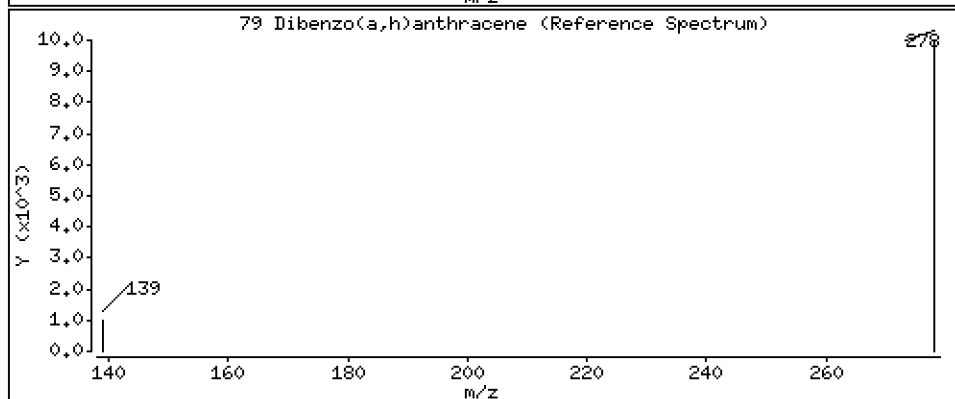
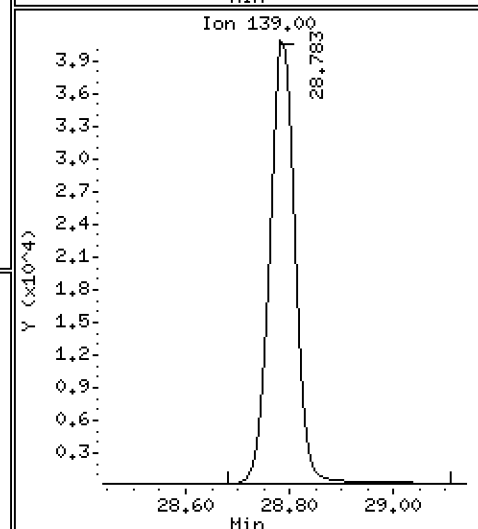
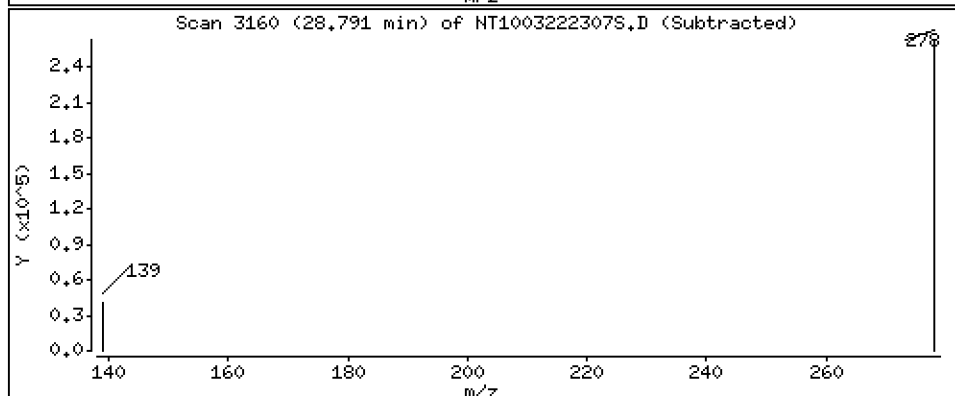
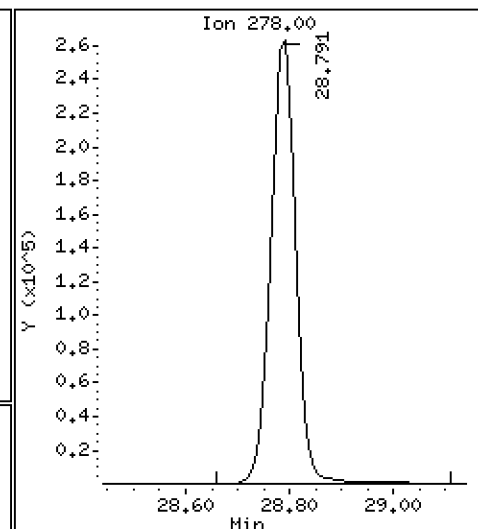
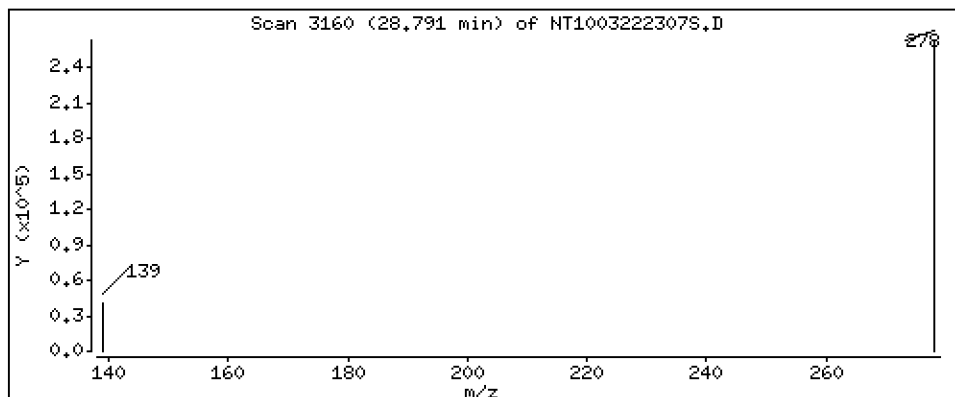
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,273 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

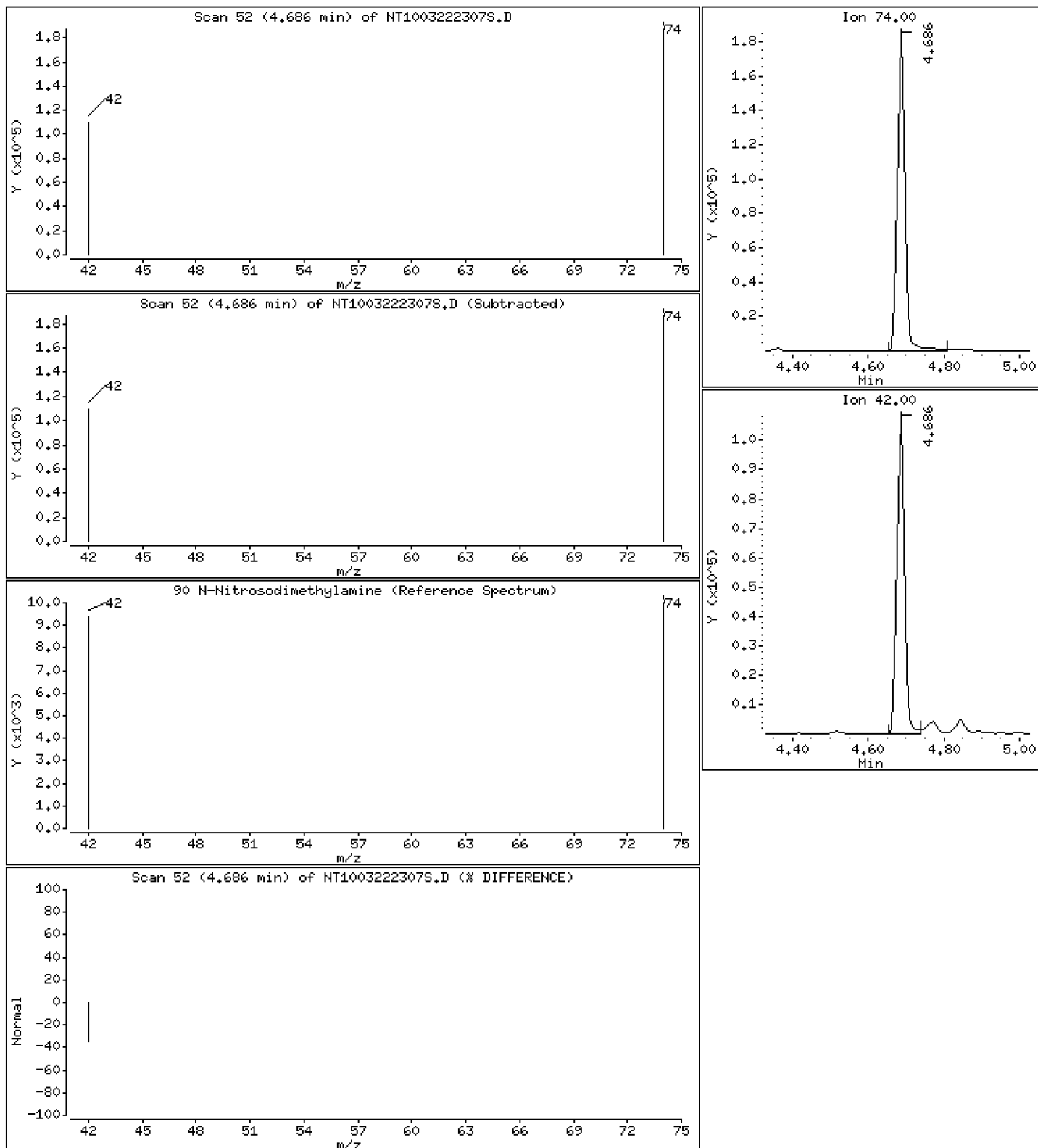
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 7.417 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222307S.D  
 Lab Smp Id: BLC0442-BS2  
 Inj Date : 22-MAR-2023 20:54 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : BLC0442-BS1  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Meth Date : 25-Mar-2023 13:23 yev Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: ORGDATA102

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT     | EXP RT         | REL RT | RESPONSE | CONCENTRATIONS |           |
|-------------------------------|-------|-----|--------|----------------|--------|----------|----------------|-----------|
|                               |       |     |        |                |        |          | ON-COLUMN      | FINAL     |
|                               | MASS  |     |        |                |        |          | (ug/mL)        | ( ug/L)   |
| \$ 1 2-Fluorophenol           | 112   |     | 6.864  | 6.856 (0.756)  |        | 309614   | 5.84776        | 5.848 (R) |
| 3 Phenol                      | 94    |     | 8.471  | 8.471 (0.933)  |        | 264980   | 3.64794        | 3.648     |
| 7 1,3-Dichlorobenzene         | 146   |     | 9.020  | 9.020 (0.993)  |        | 260618   | 3.83430        | 3.834     |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.082  | 9.090 (1.000)  |        | 174597   | 4.00000        |           |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.113  | 9.113 (1.003)  |        | 261538   | 3.98604        | 3.986     |
| 11 Benzyl alcohol             | 79    |     | 9.361  | 9.361 (1.031)  |        | 177159   | 4.20694        | 4.207     |
| 12 1,2-Dichlorobenzene        | 146   |     | 9.470  | 9.470 (1.043)  |        | 255968   | 3.96682        | 3.967     |
| 13 2-Methylphenol             | 108   |     | 9.586  | 9.586 (1.056)  |        | 180784   | 3.59184        | 3.592     |
| 15 4-Methylphenol             | 108   |     | 9.866  | 9.858 (1.086)  |        | 209433   | 4.00440        | 4.004     |
| 16 N-Nitroso-di-n-propylamine | 70    |     | 9.920  | 9.920 (1.092)  |        | 142995   | 3.86606        | 3.866     |
| 22 2,4-Dimethylphenol         | 107   |     | 10.897 | 10.897 (0.941) |        | 303456   | 5.48861        | 5.489     |
| 24 Benzoic acid               | 105   |     | 11.143 | 11.025 (0.963) |        | 1020567  | 29.3391        | 29.34     |
| 26 1,2,4-Trichlorobenzene     | 180   |     | 11.485 | 11.485 (0.992) |        | 222262   | 3.99619        | 3.996     |
| * 27 Naphthalene-d8           | 136   |     | 11.577 | 11.569 (1.000) |        | 639634   | 4.00000        |           |
| 30 Hexachlorobutadiene        | 225   |     | 11.979 | 11.979 (1.035) |        | 142333   | 4.20919        | 4.209     |
| 39 Dimethylphthalate          | 163   |     | 14.711 | 14.703 (0.968) |        | 519216   | 5.10038        | 5.100     |
| * 42 Acenaphthene-d10         | 162   |     | 15.198 | 15.198 (1.000) |        | 322589   | 4.00000        |           |
| 50 Diethylphthalate           | 149   |     | 16.172 | 16.165 (1.064) |        | 581207   | 5.51117        | 5.511     |
| 54 N-Nitrosodiphenylamine     | 169   |     | 16.550 | 16.550 (0.907) |        | 349077   | 4.10928        | 4.109     |
| 57 Hexachlorobenzene          | 284   |     | 17.623 | 17.623 (0.966) |        | 179177   | 4.71173        | 4.712     |

| Compounds                 | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                           |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>( ug/L) |
| 58 Pentachlorophenol      | 266       | 17.987 | 17.987 | (0.986) | 362520   | 15.5757              | 15.58            |
| * 59 Phenanthrene-d10     | 188       | 18.250 | 18.250 | (1.000) | 633150   | 4.00000              |                  |
| \$ 66 Terphenyl-d14       | 244       | 21.422 | 21.422 | (0.918) | 414950   | 4.44725              | 4.447 (R)        |
| 67 Butylbenzylphthalate   | 149       | 22.367 | 22.367 | (0.958) | 431780   | 5.38075              | 5.381            |
| * 69 Chrysene-d12         | 240       | 23.342 | 23.343 | (1.000) | 572648   | 4.00000              |                  |
| * 77 Perylene-d12         | 264       | 26.029 | 26.029 | (1.000) | 635593   | 4.00000              |                  |
| 79 Dibenzo(a,h)anthracene | 278       | 28.790 | 28.790 | (1.106) | 869927   | 4.27347              | 4.273            |
| 90 N-Nitrosodimethylamine | 74        | 4.686  | 4.678  | (0.516) | 249065   | 7.41704              | 7.417            |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.



ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT1003222307S.D  
 Lab Smp Id: BLC0442-BS2  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Misc Info:

Calibration Date: 22-MAR-2023  
 Calibration Time: 18:20  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 135191   | 67596      | 270382  | 174597 | 29.15 |
| 27 Naphthalene-d8   | 487226   | 243613     | 974452  | 639634 | 31.28 |
| 42 Acenaphthene-d10 | 246588   | 123294     | 493176  | 322589 | 30.82 |
| 59 Phenanthrene-d10 | 479352   | 239676     | 958704  | 633150 | 32.08 |
| 69 Chrysene-d12     | 439791   | 219896     | 879582  | 572648 | 30.21 |
| 77 Perylene-d12     | 505700   | 252850     | 1011400 | 635593 | 25.69 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.09     | 8.59     | 9.59  | 9.08   | -0.09 |
| 27 Naphthalene-d8   | 11.57    | 11.07    | 12.07 | 11.58  | 0.07  |
| 42 Acenaphthene-d10 | 15.20    | 14.70    | 15.70 | 15.20  | -0.00 |
| 59 Phenanthrene-d10 | 18.25    | 17.75    | 18.75 | 18.25  | -0.00 |
| 69 Chrysene-d12     | 23.34    | 22.84    | 23.84 | 23.34  | -0.00 |
| 77 Perylene-d12     | 26.03    | 25.53    | 26.53 | 26.03  | -0.00 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222307S.D

Lab ID: BLC0442-BS2

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 22-MAR-2023 20:54

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND     |
|-------|---------|--------|--------------|
| 0.963 | 0.953   | 0.0096 | Benzoic acid |

RRT check based on Ccal File: SIM.b/NT1003222303S.D

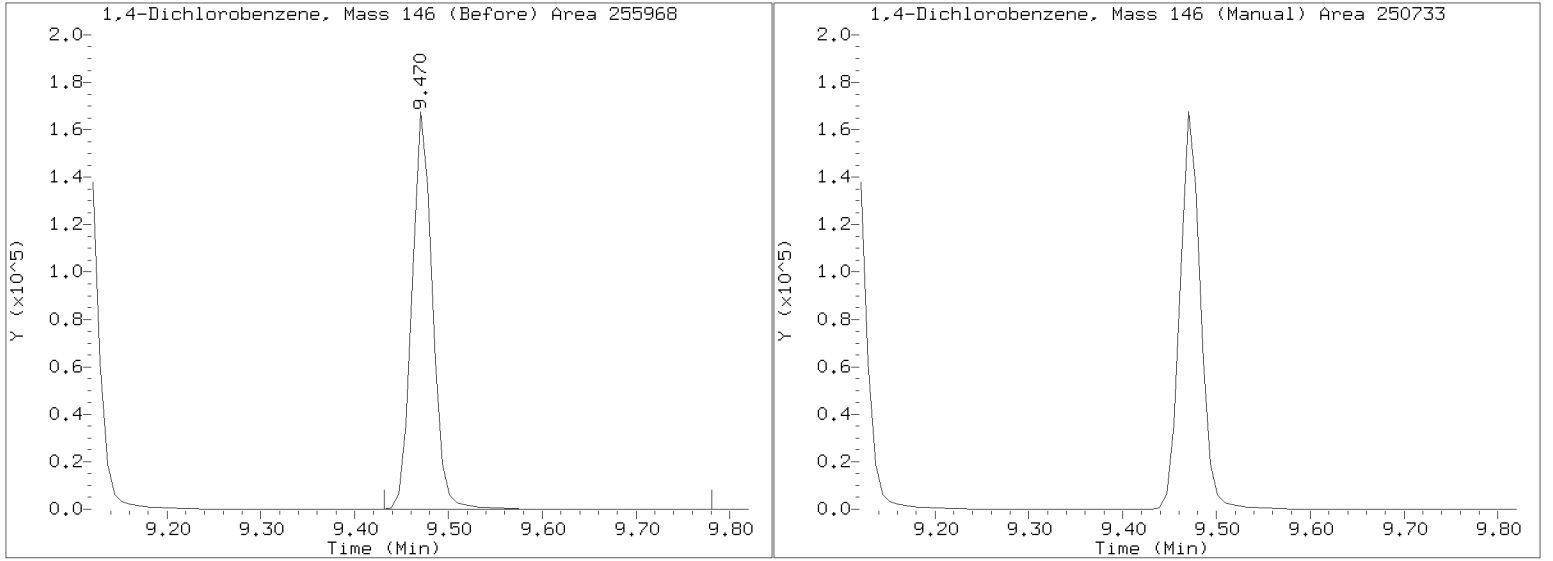
On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

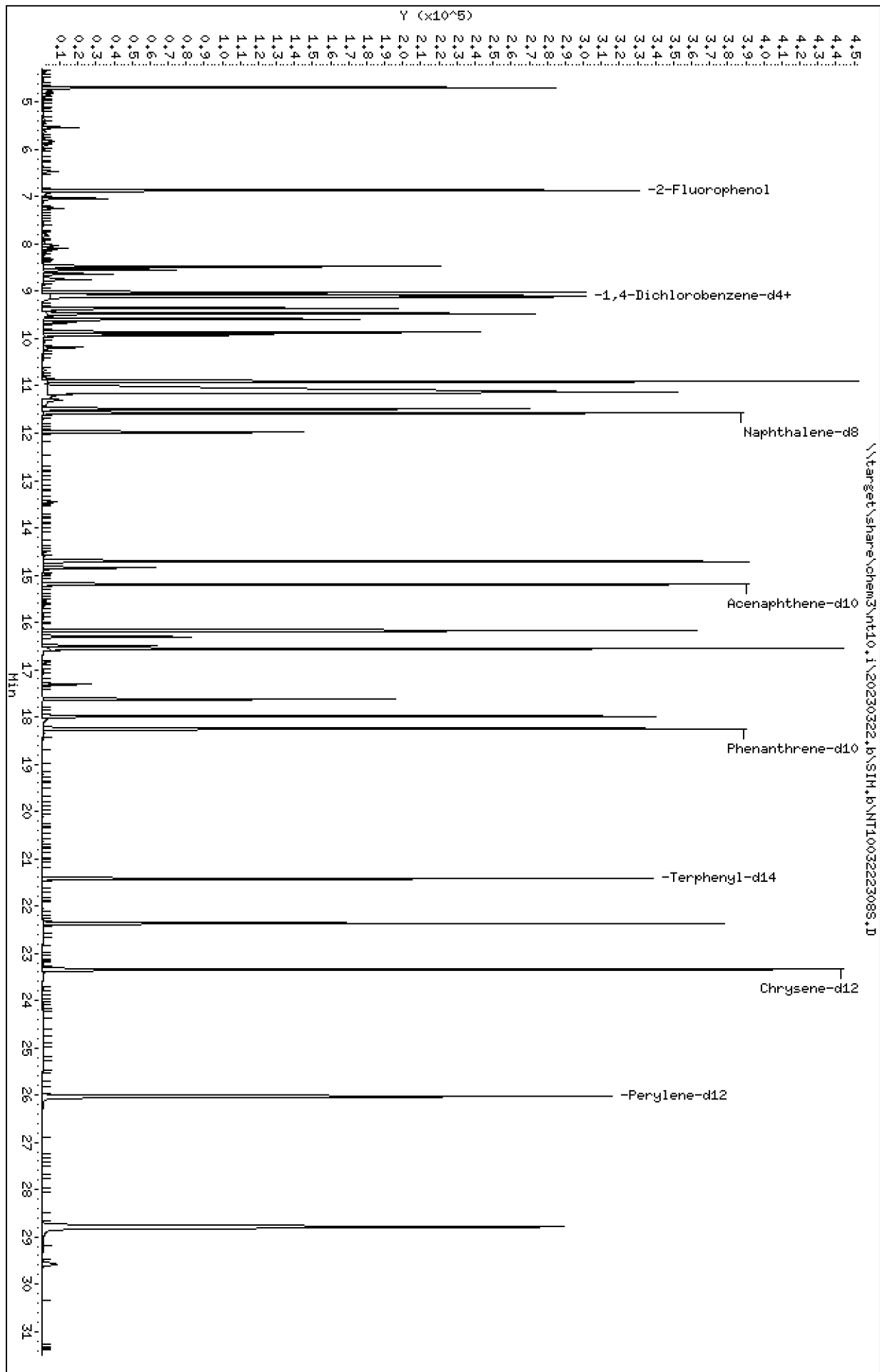
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222307S.D  
Injection Date: 22-MAR-2023 20:54  
Lab ID: BLC0442-BS1 Client ID:  
Report Date: 03/25/2023 12:07



Data File: \\target\share\chem3\nt10.1\20230322.16\SIM.B\N100322308S.D  
 Date : 22-MAR-2023 21:32  
 Client ID:  
 Sample Info: BLC0442-BSM1  
 Volume Injected (uL): 1.0  
 Column phase: ZB-5msi

Instrument: nt10.1  
 Operator: JGR  
 Column diameter: 0.25



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

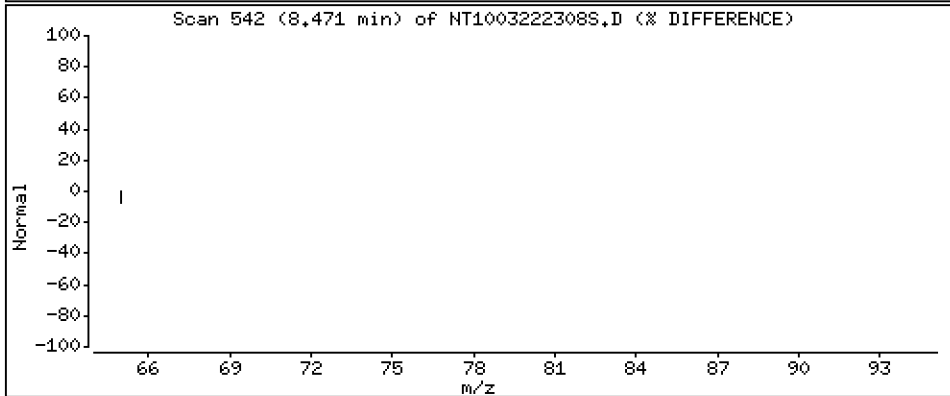
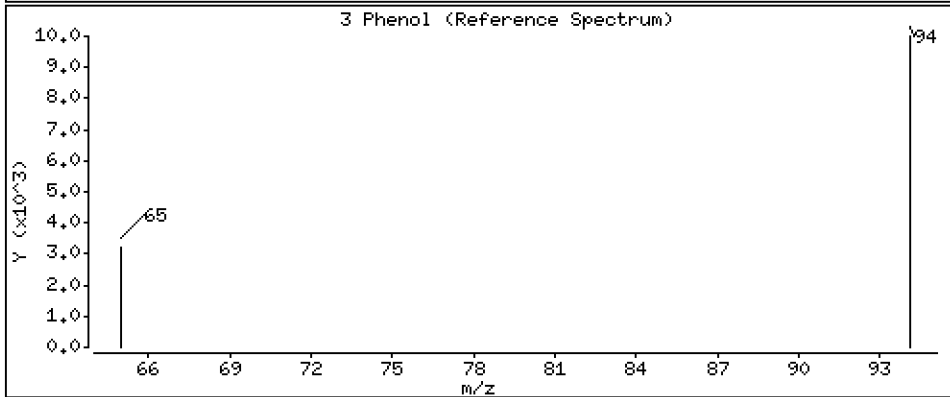
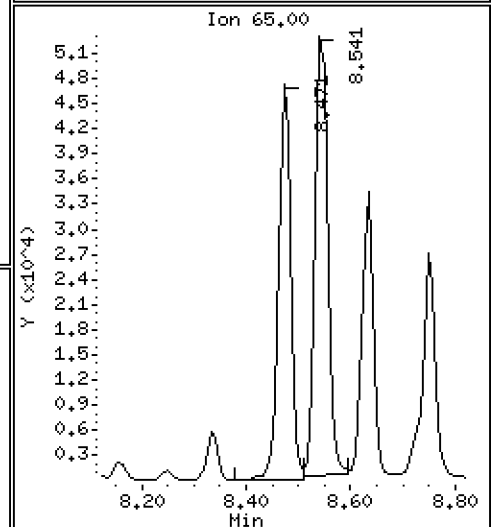
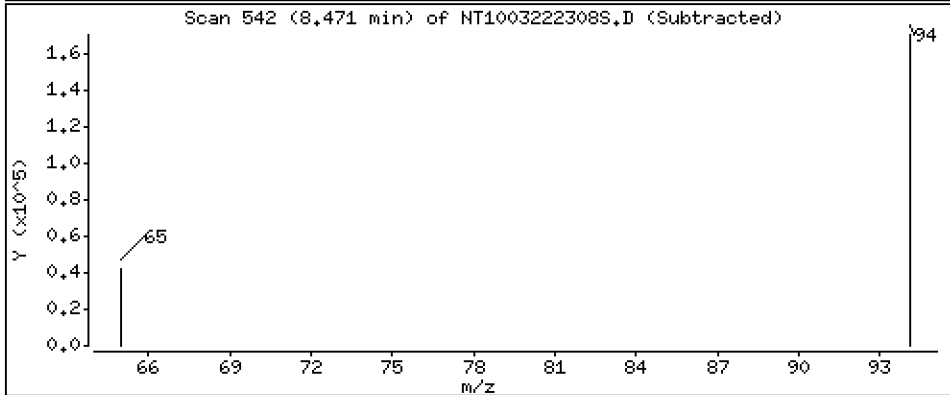
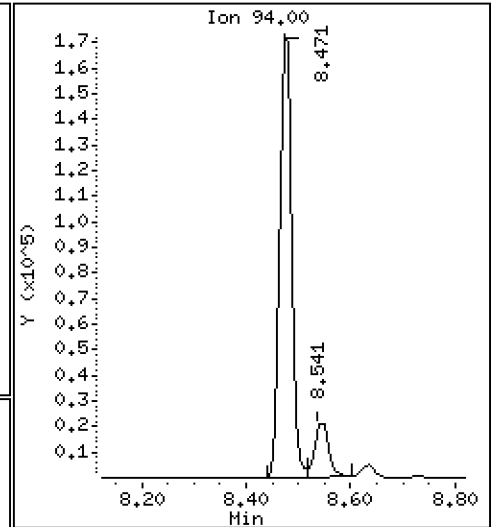
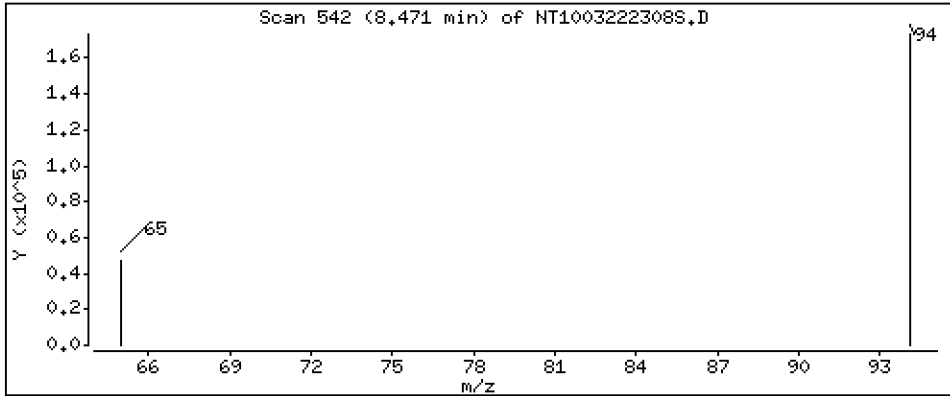
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 3,727 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

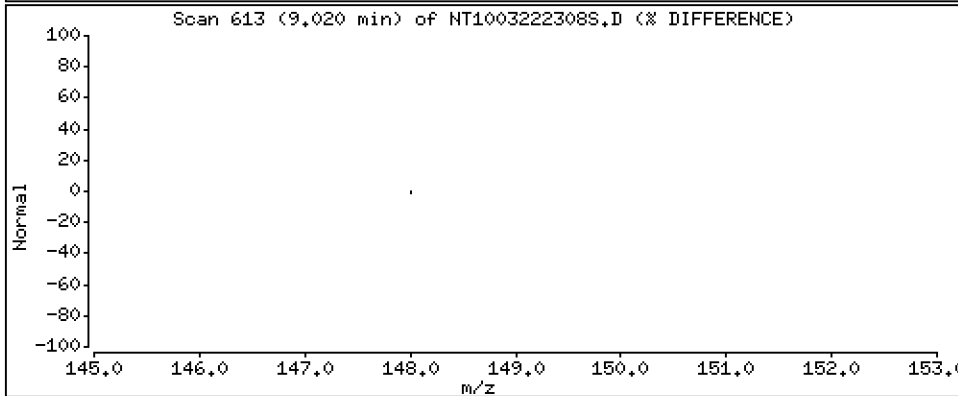
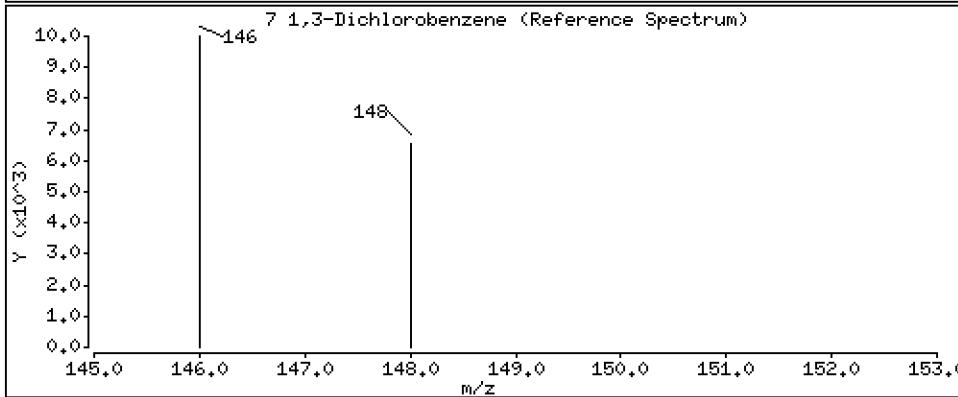
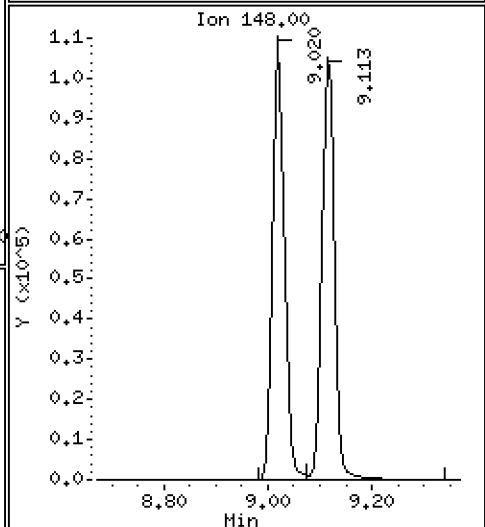
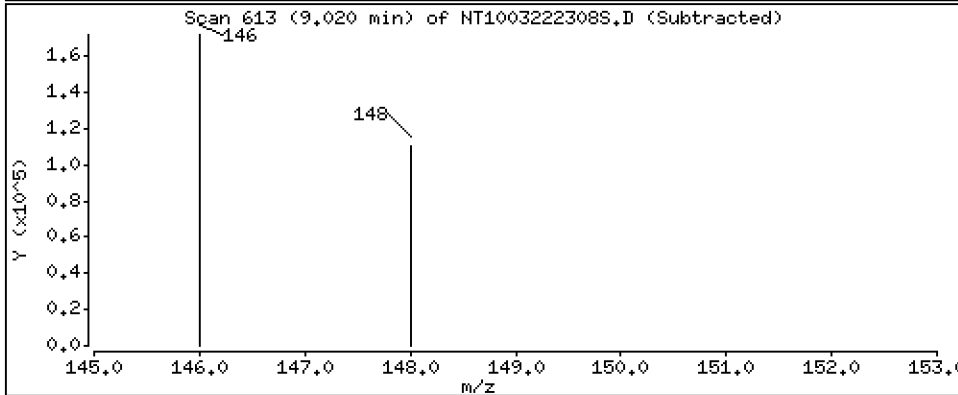
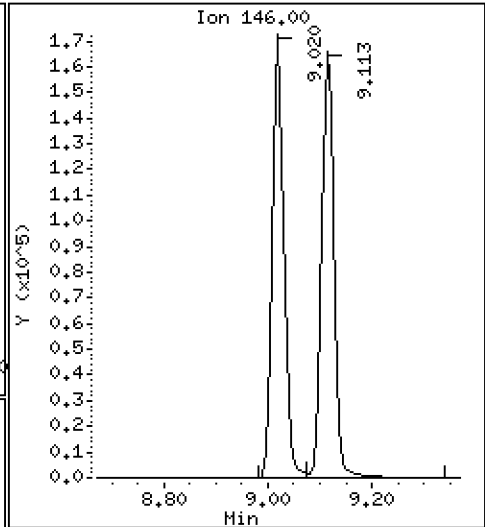
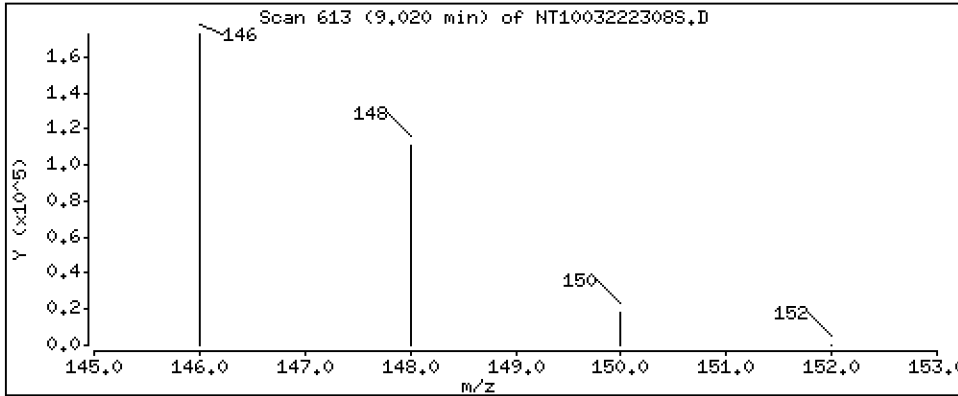
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 3,957 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

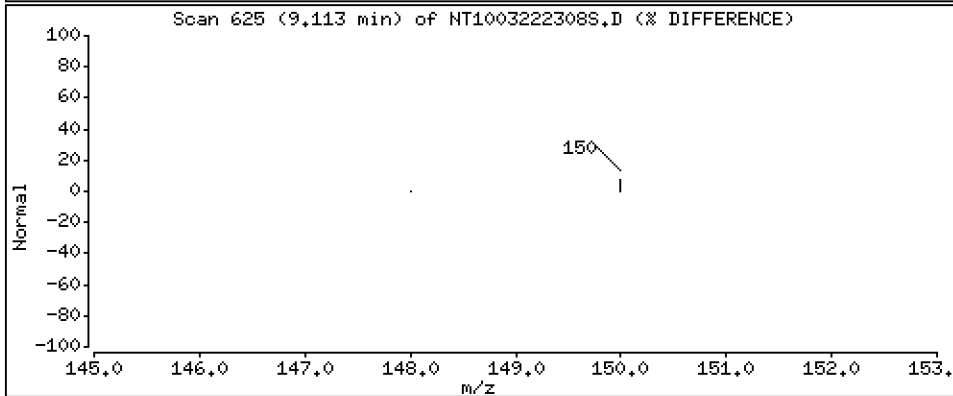
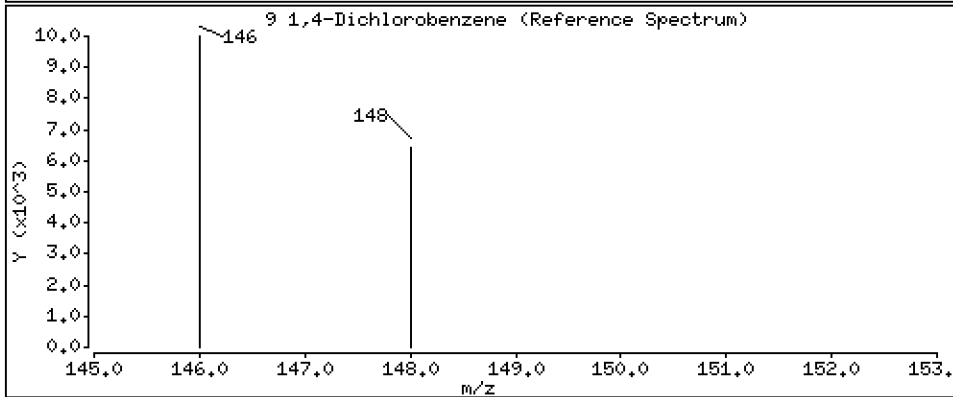
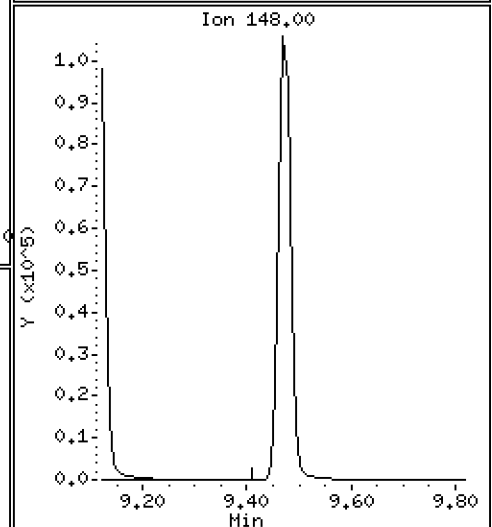
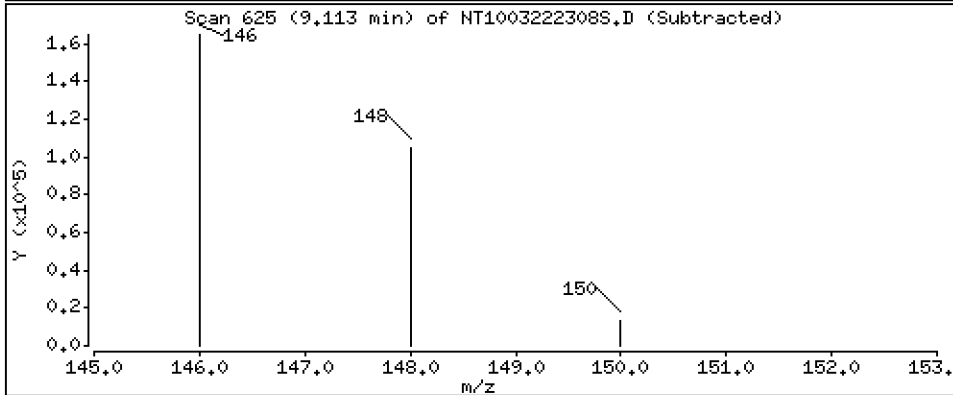
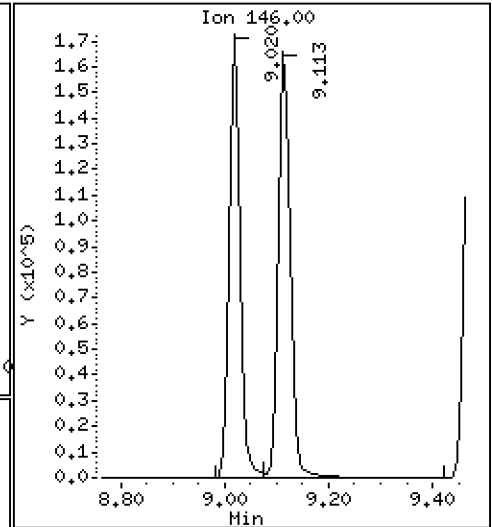
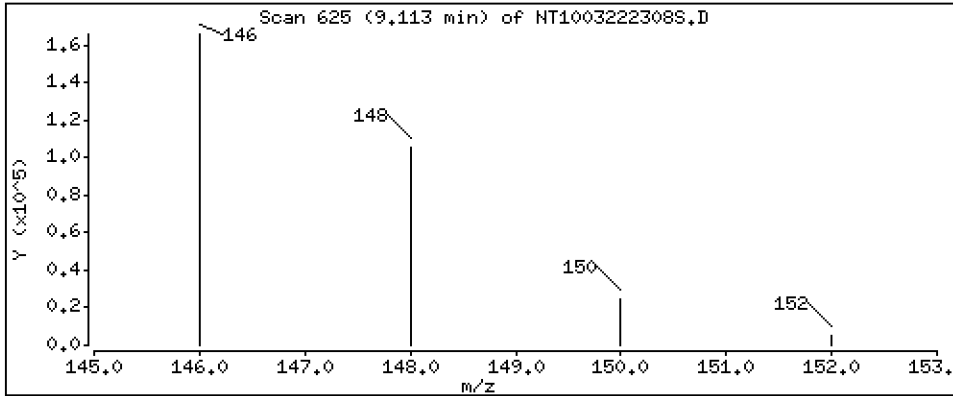
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 4.064 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

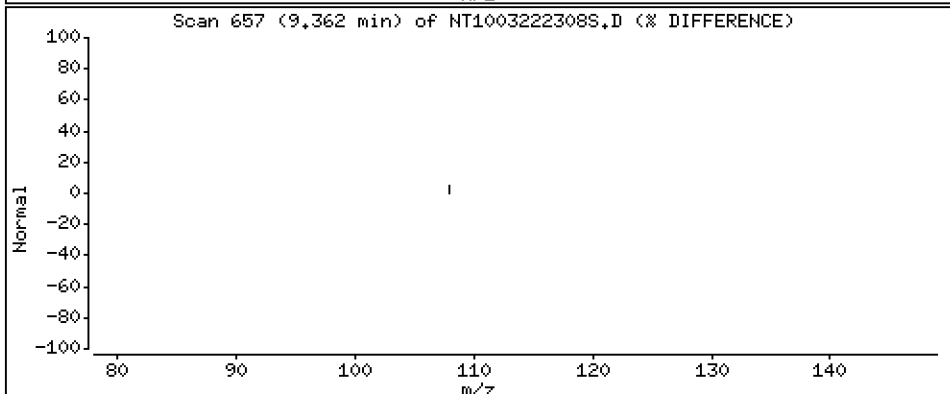
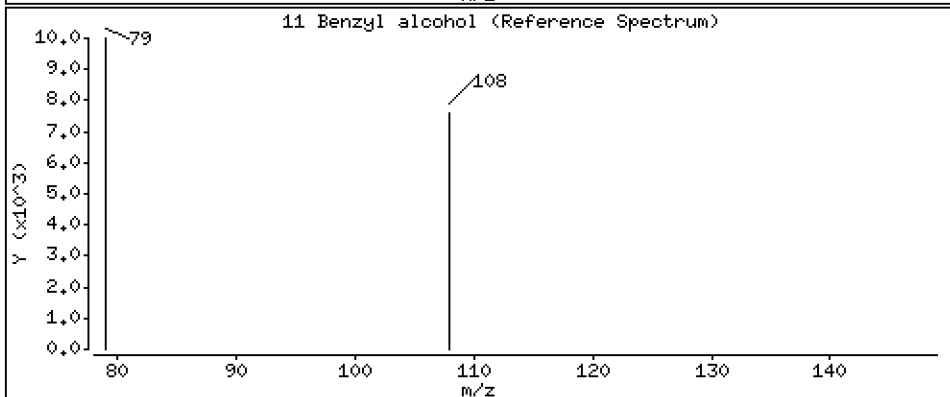
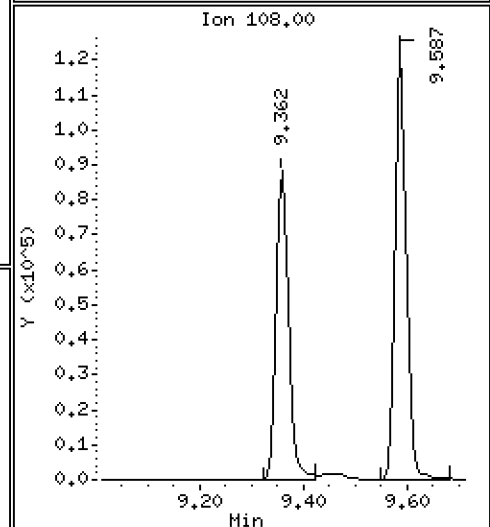
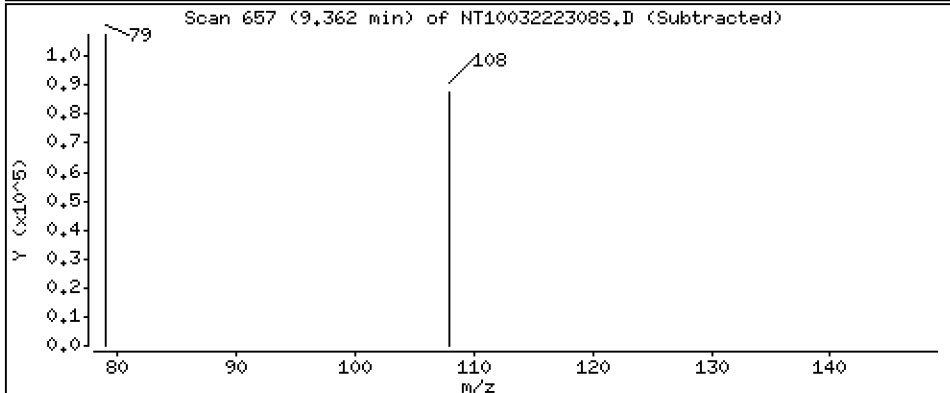
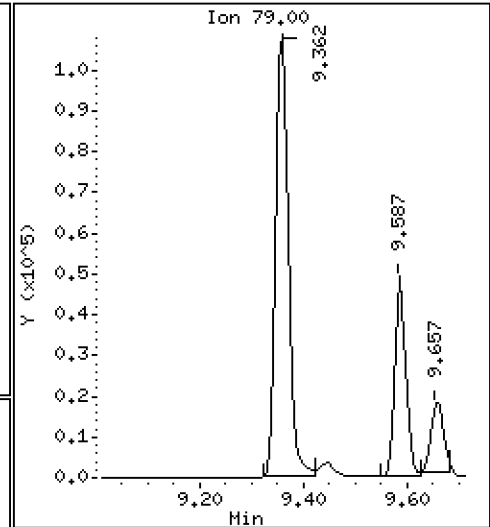
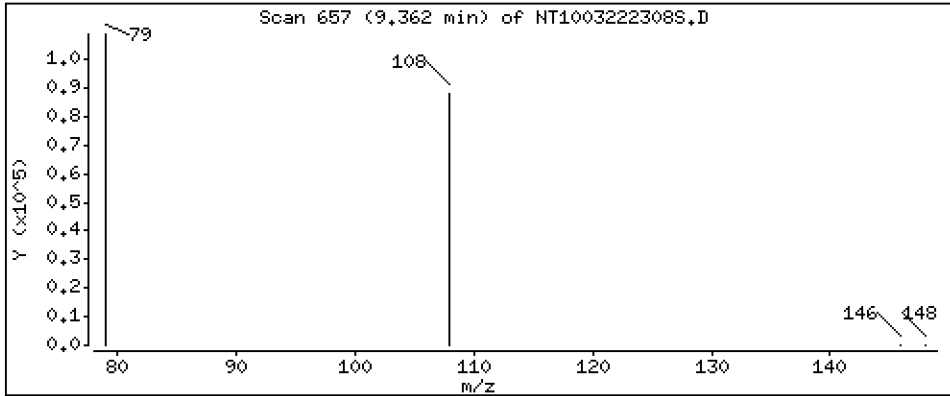
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.364 ug/L





Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

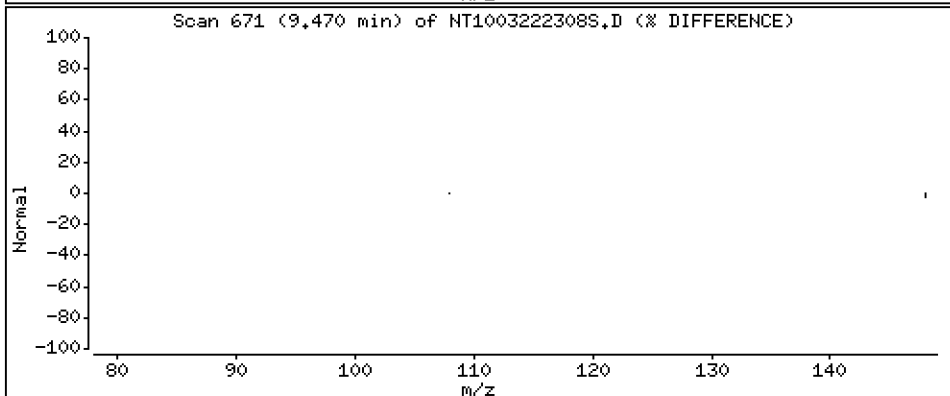
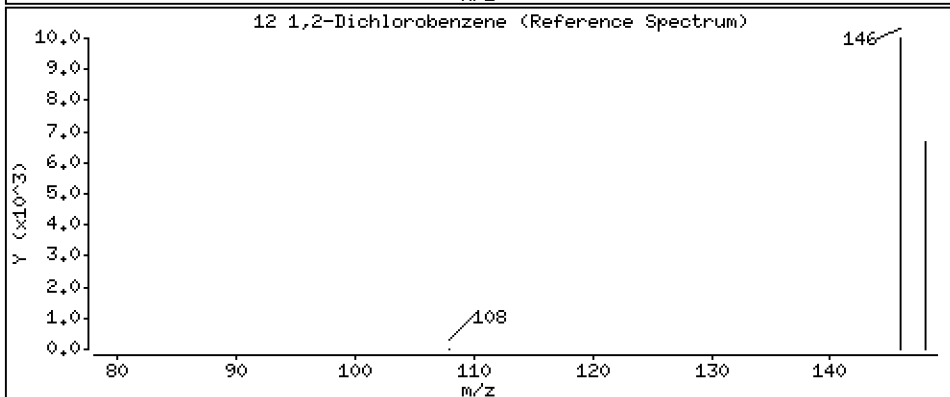
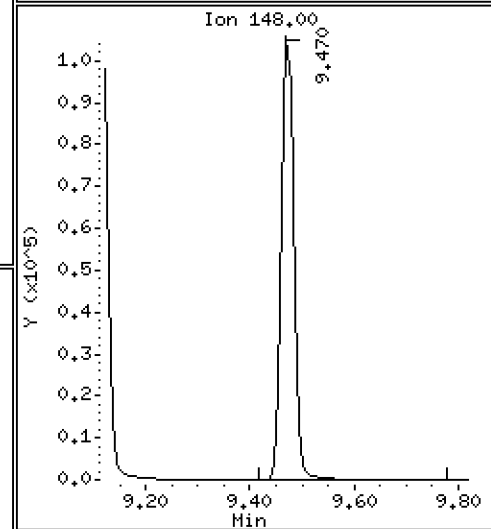
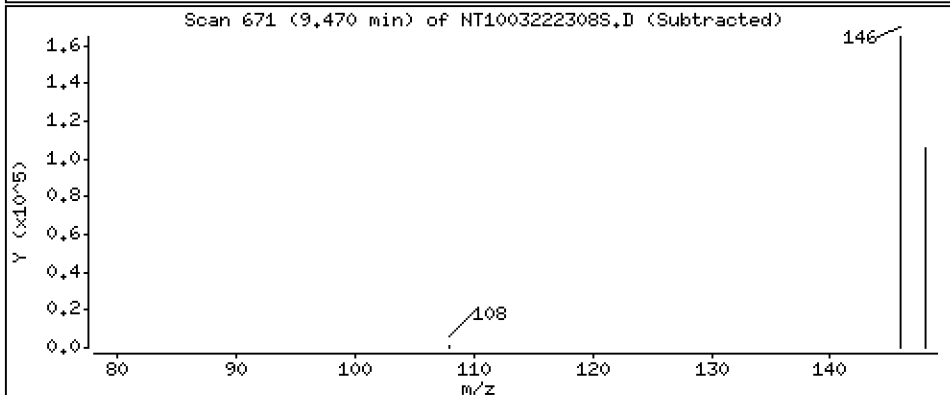
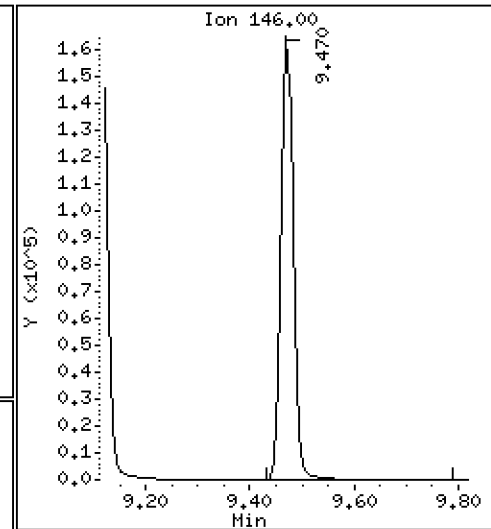
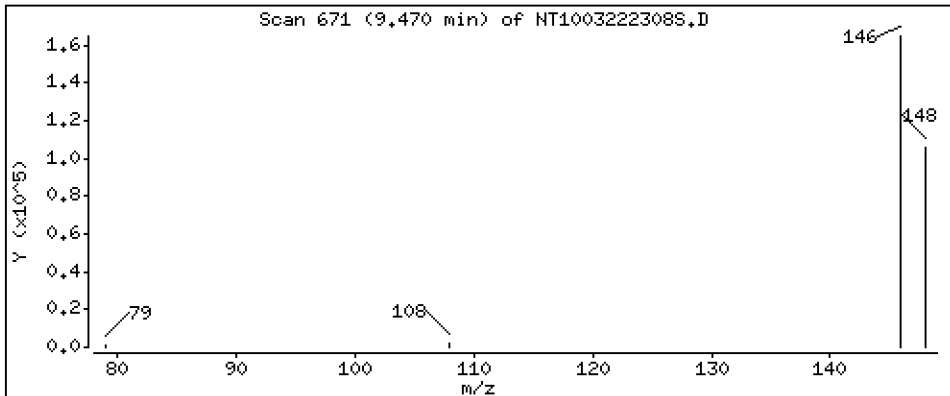
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 4.079 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

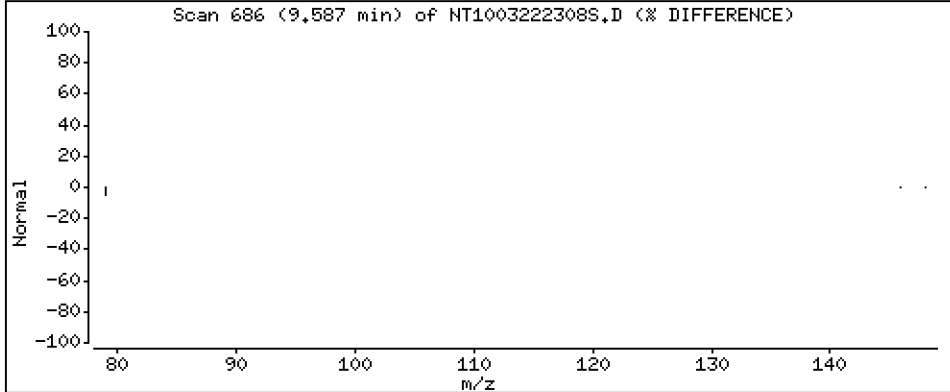
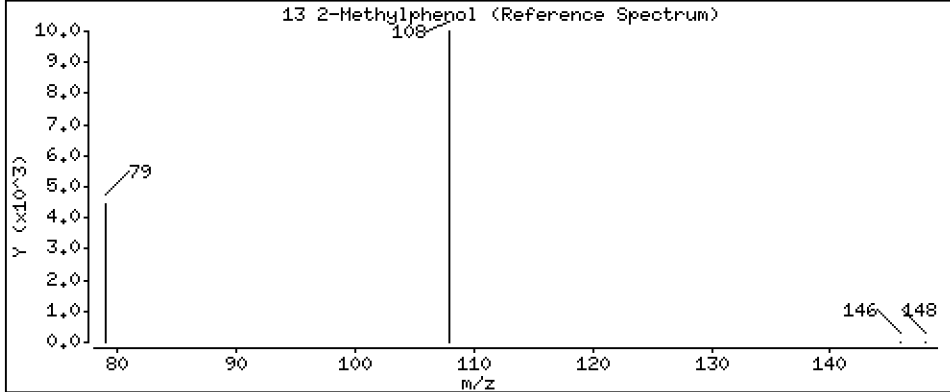
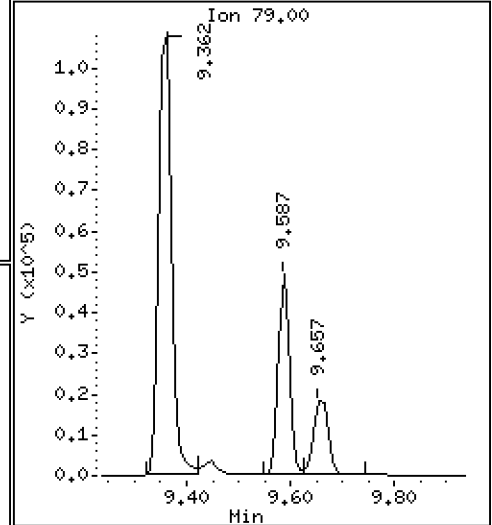
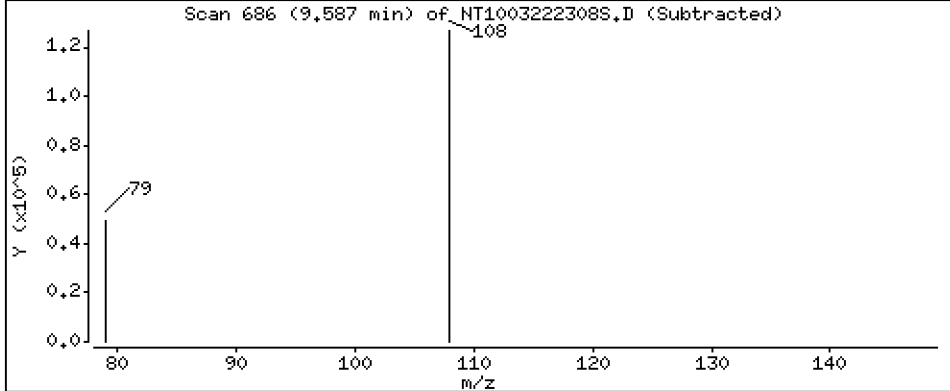
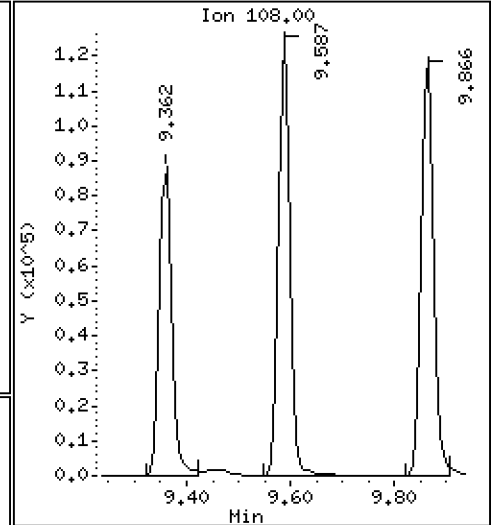
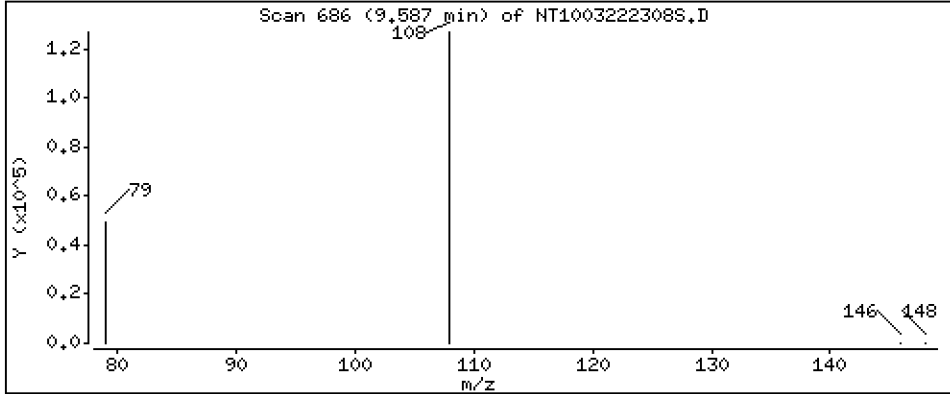
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 3,680 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

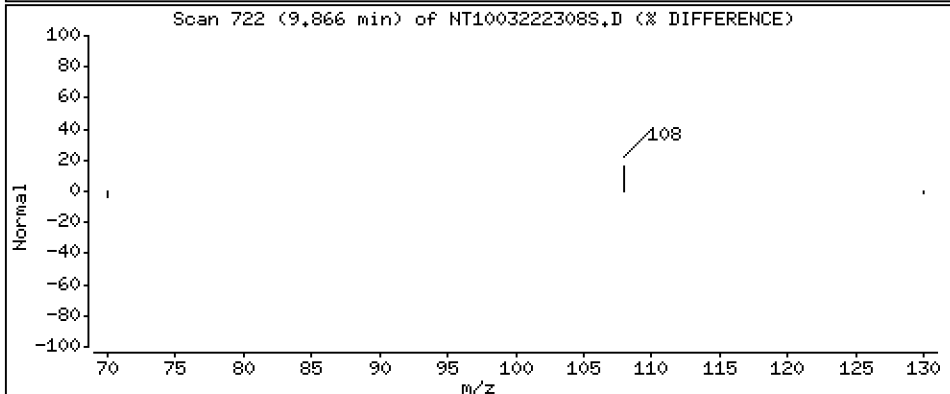
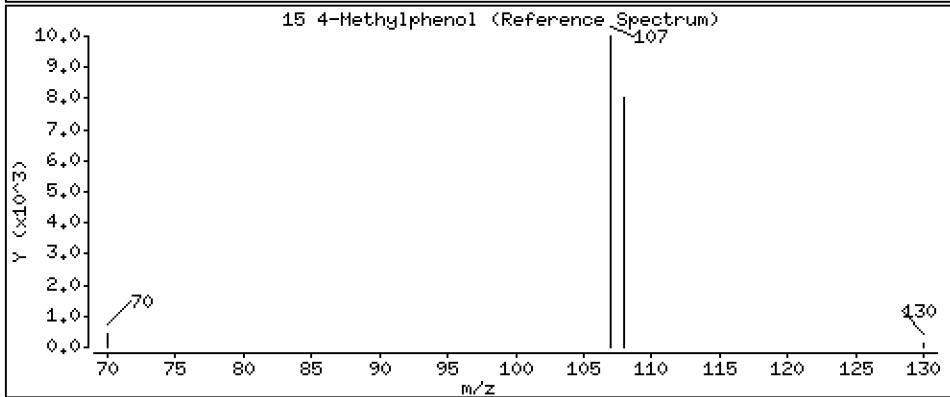
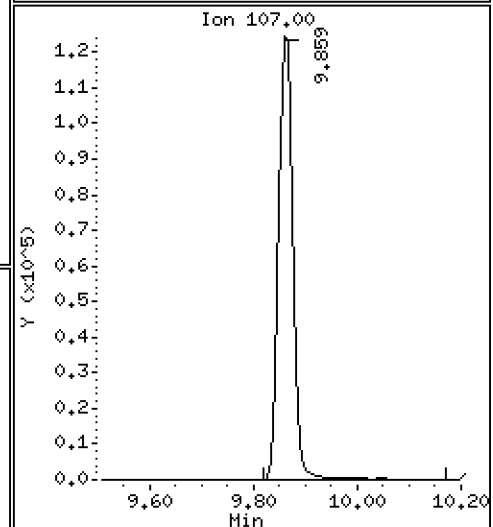
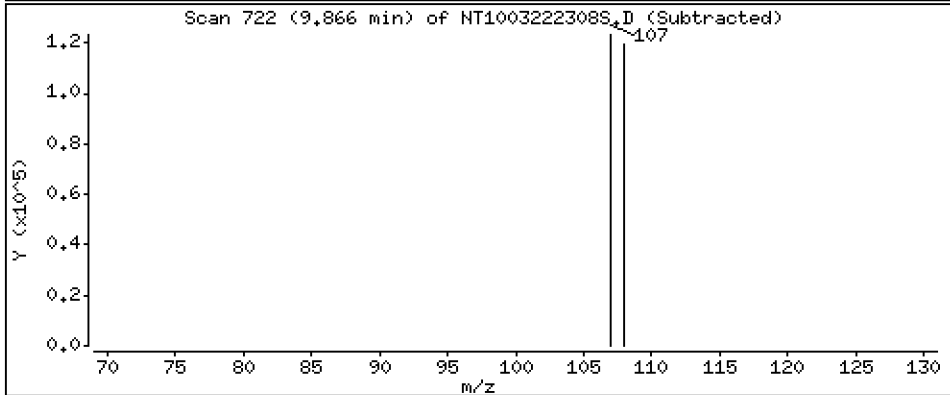
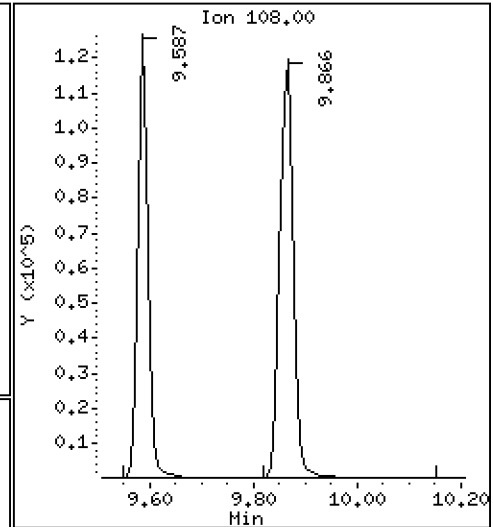
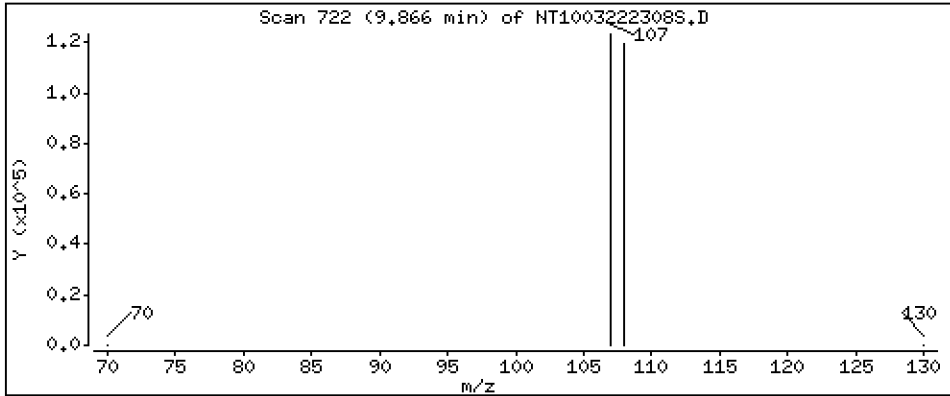
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 4.152 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

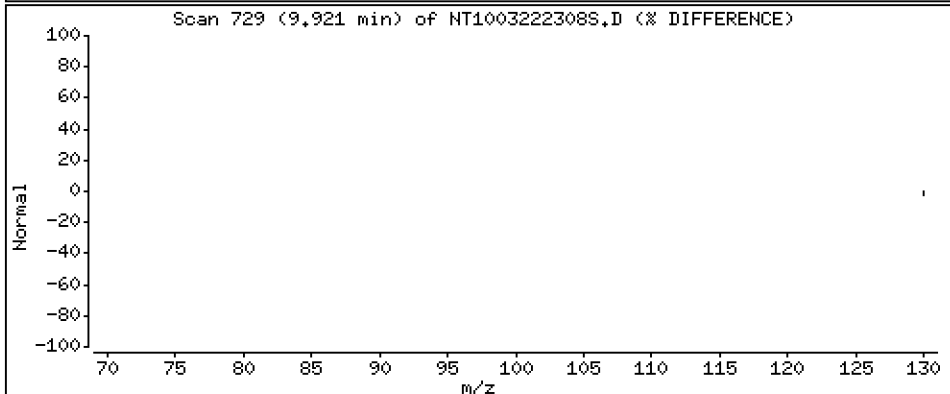
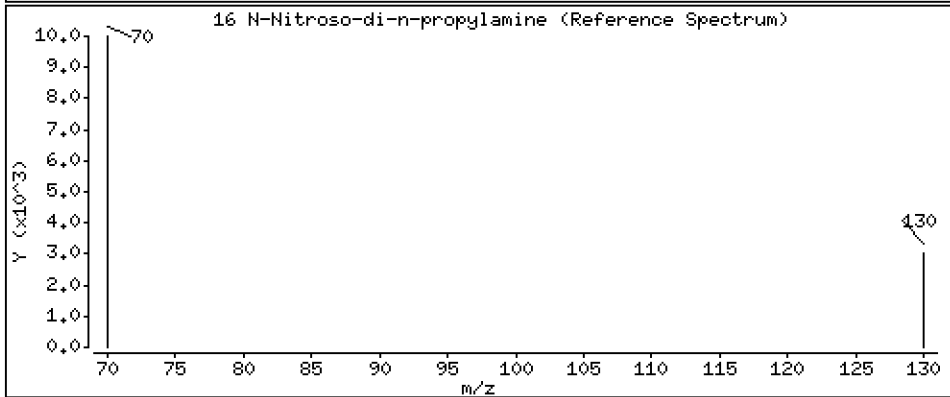
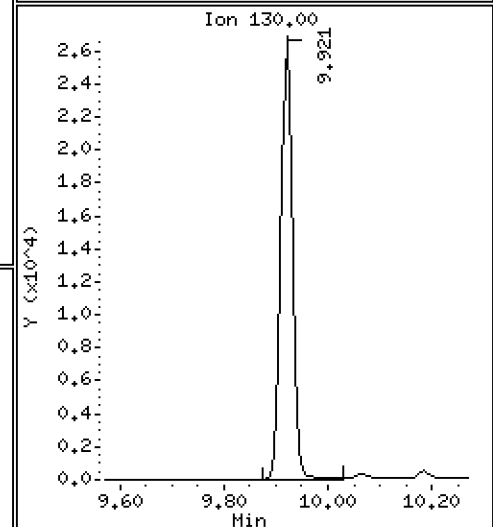
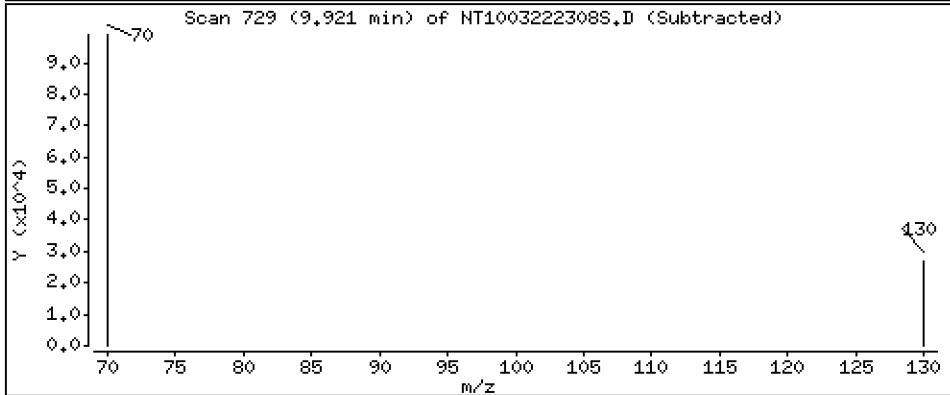
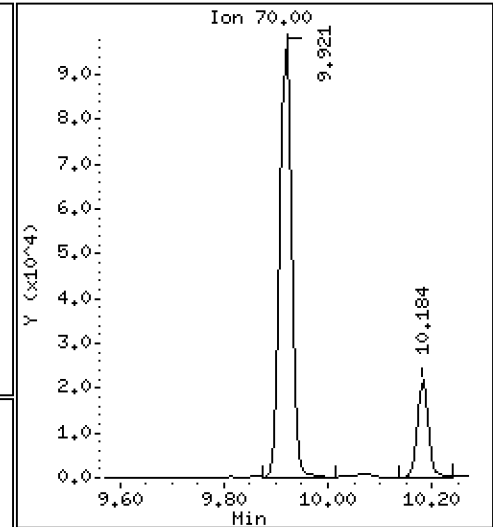
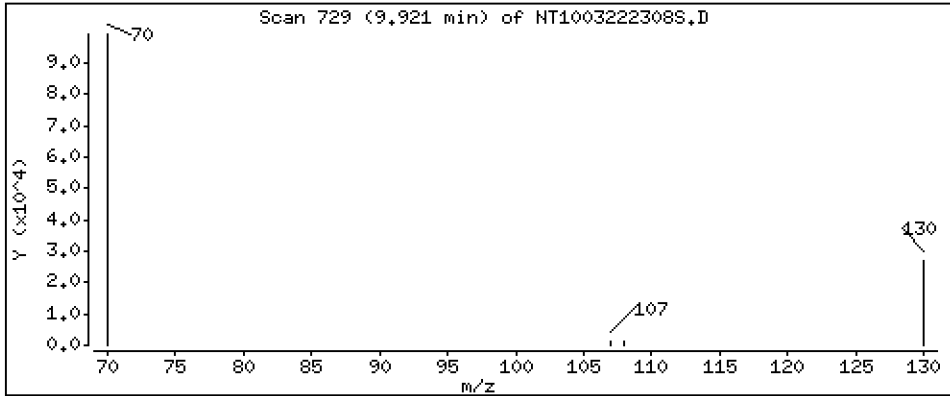
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 4.031 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

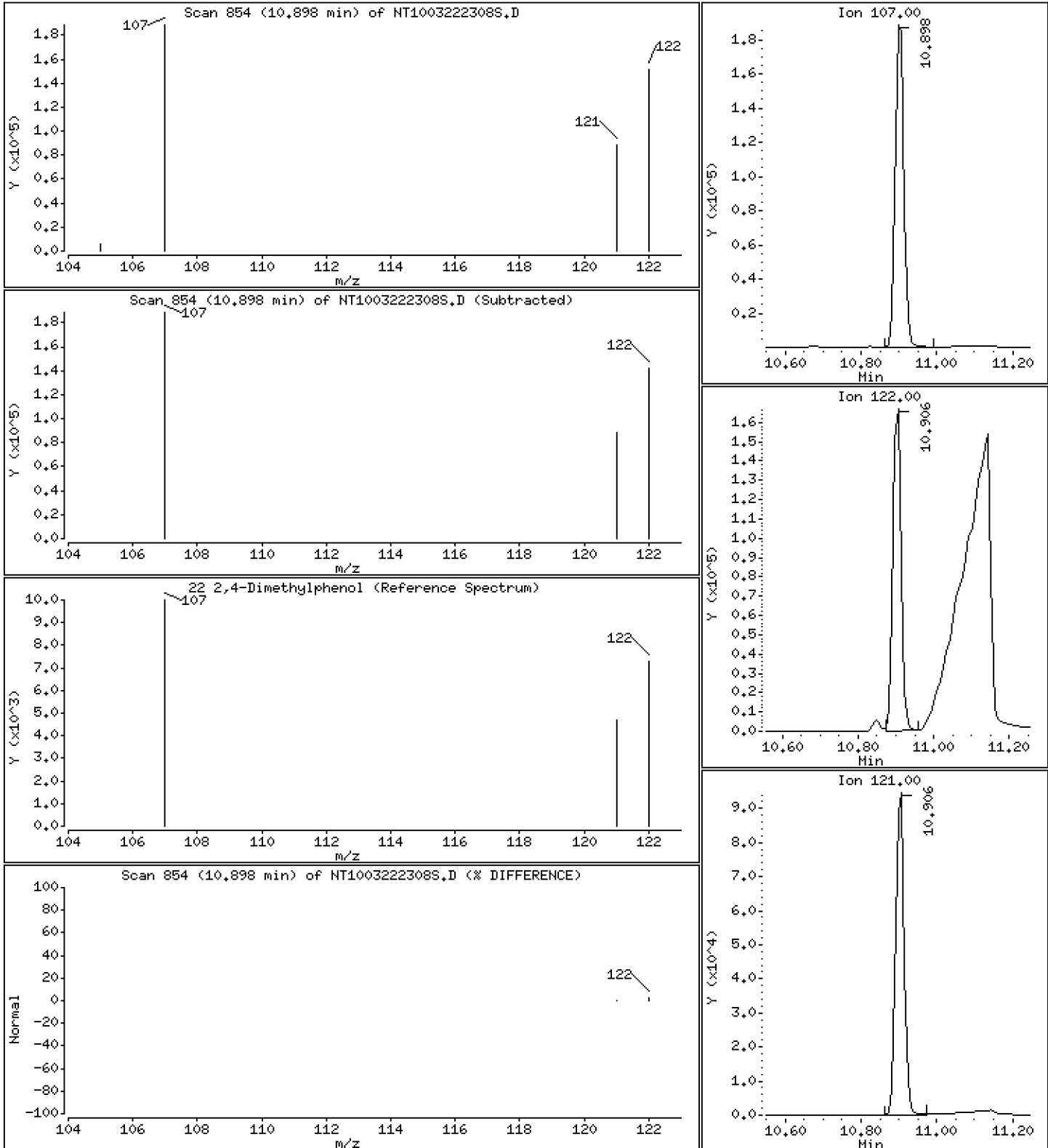
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 5,572 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

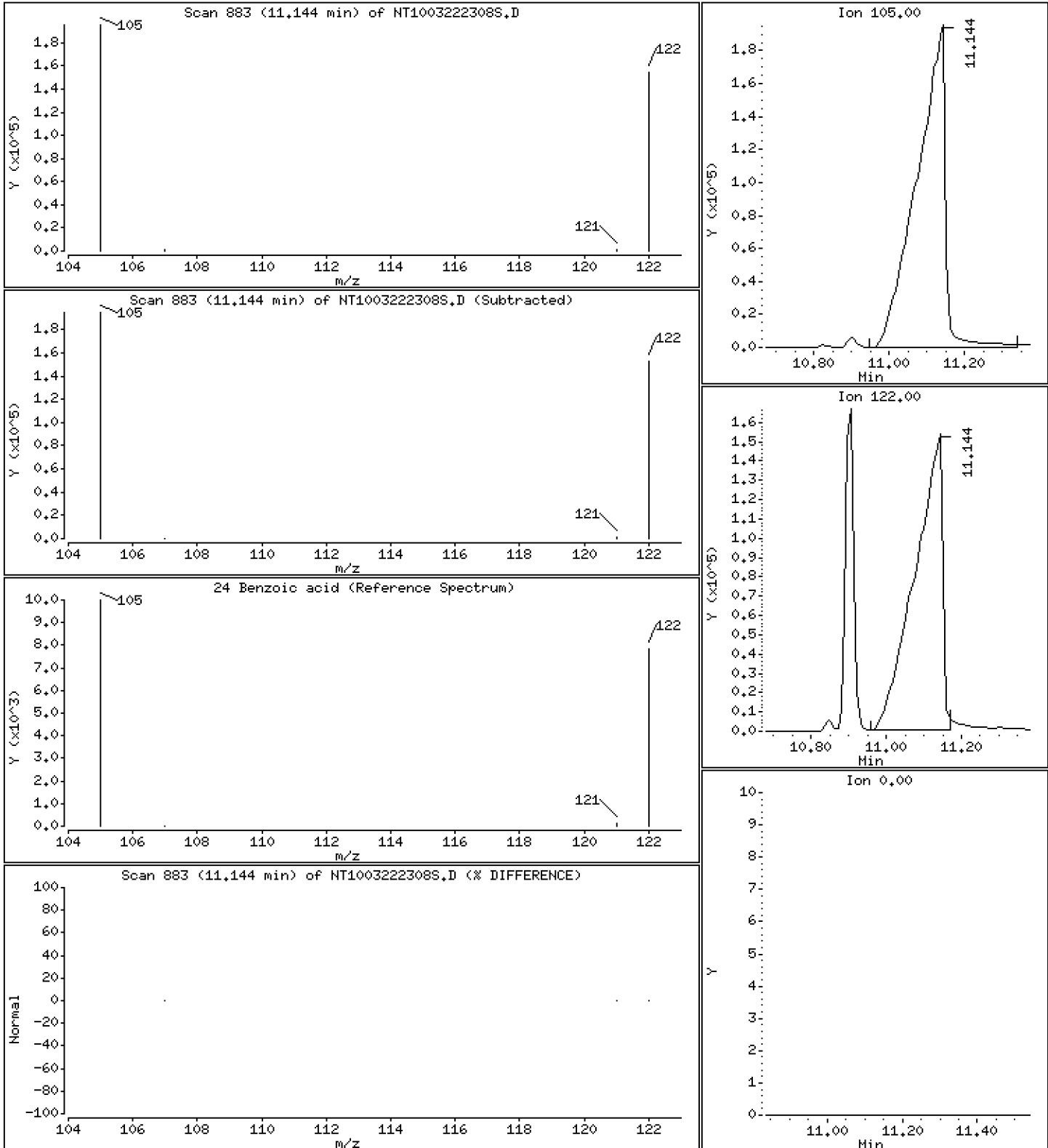
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 30,43 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

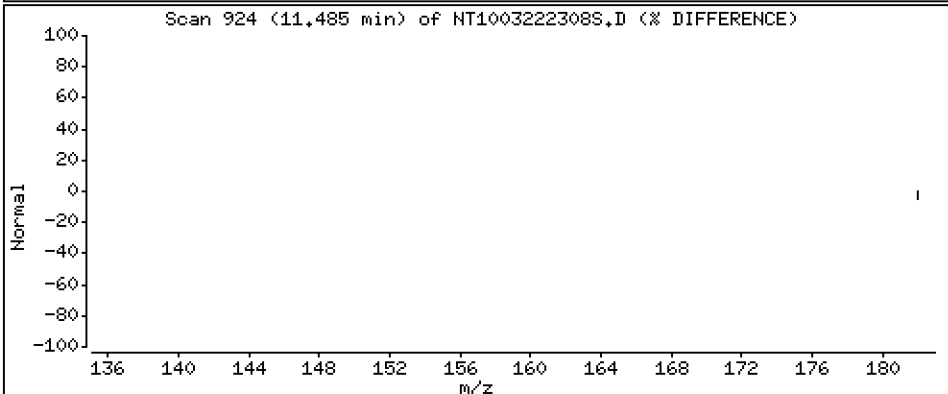
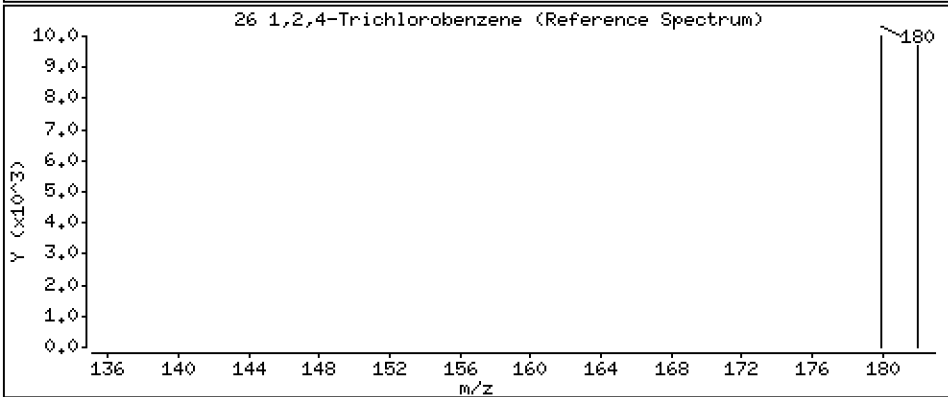
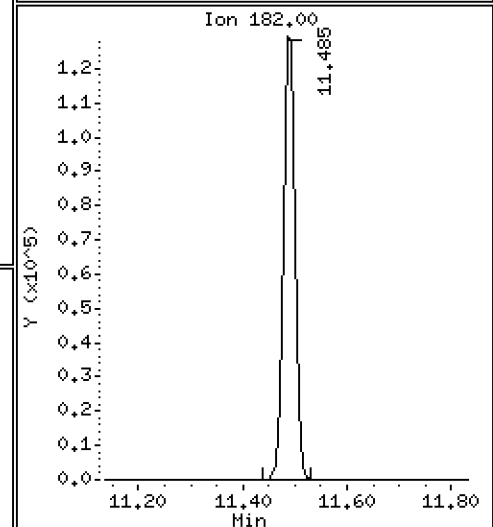
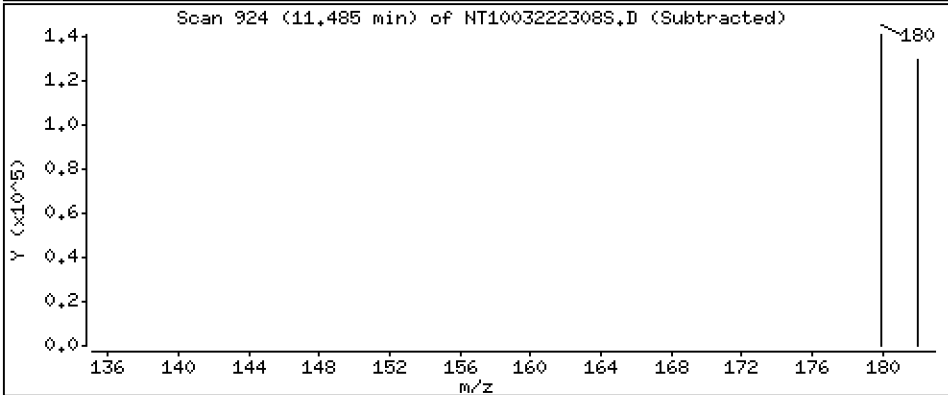
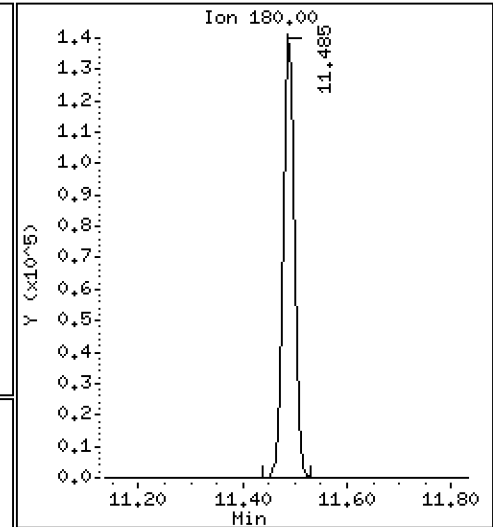
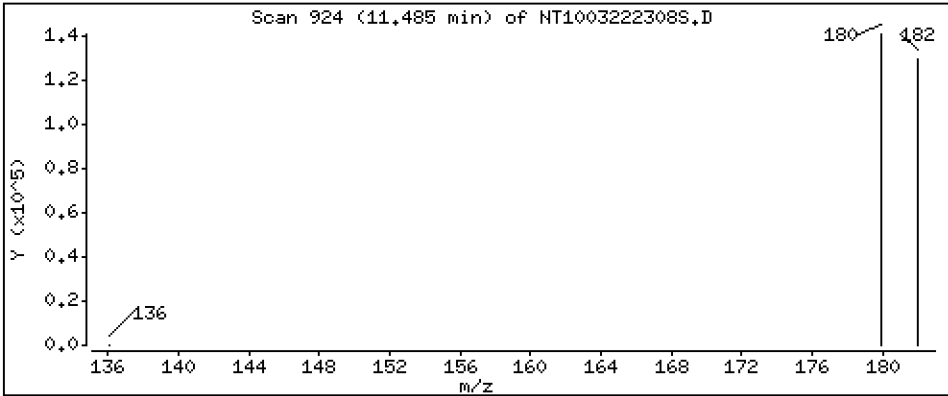
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

26 1,2,4-Trichlorobenzene

Concentration: 4.116 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

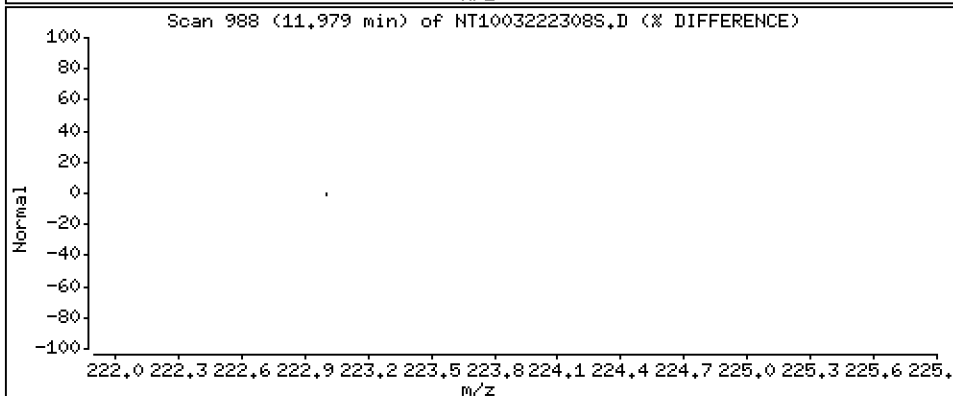
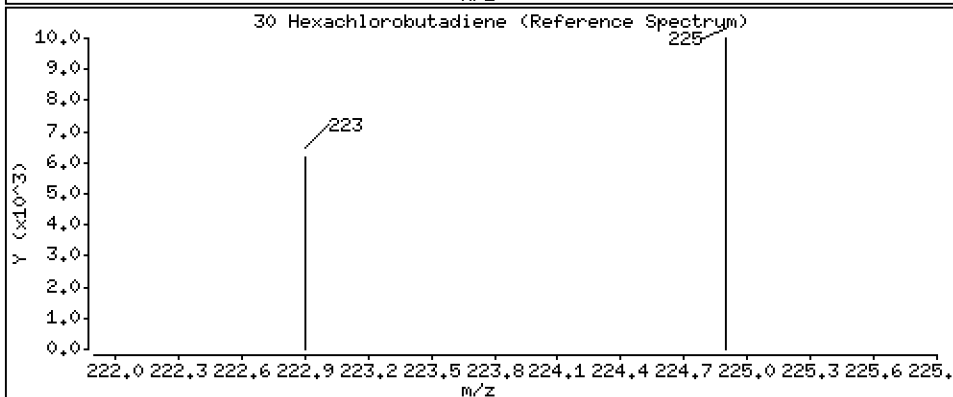
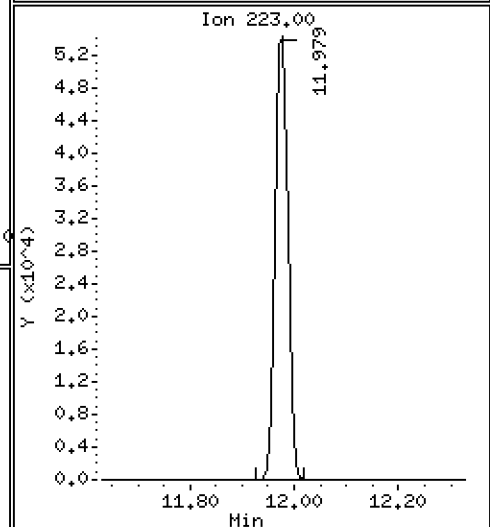
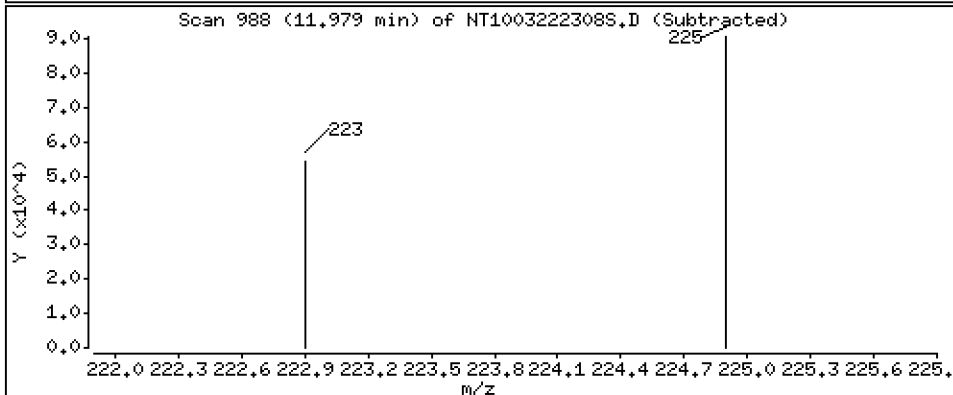
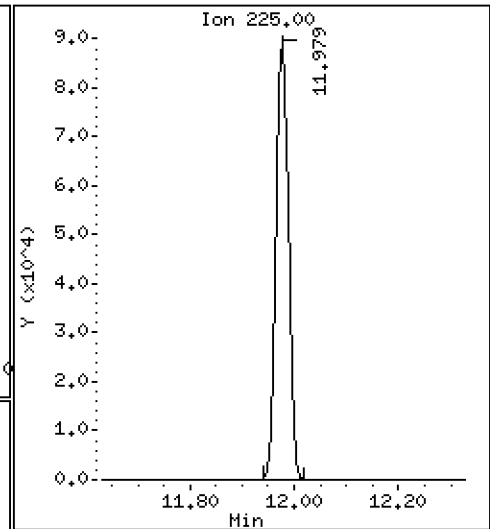
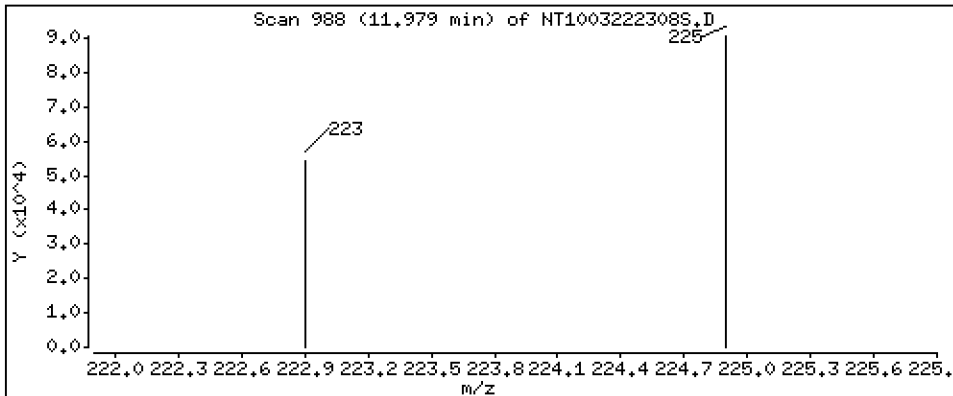
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,322 ug/L





Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

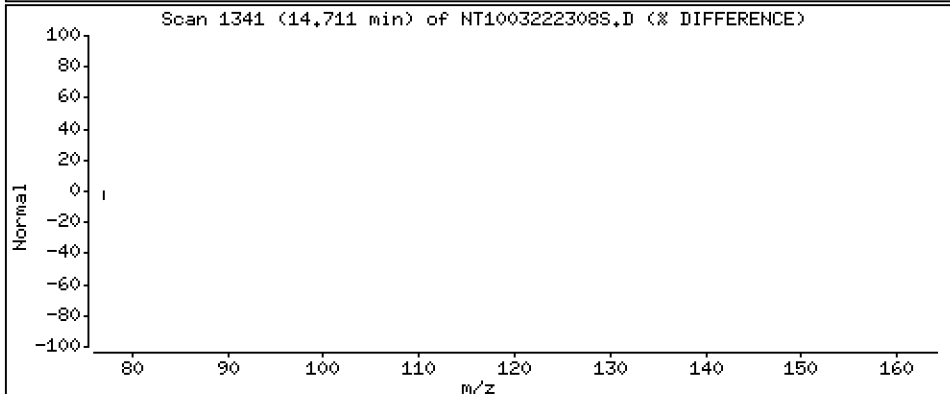
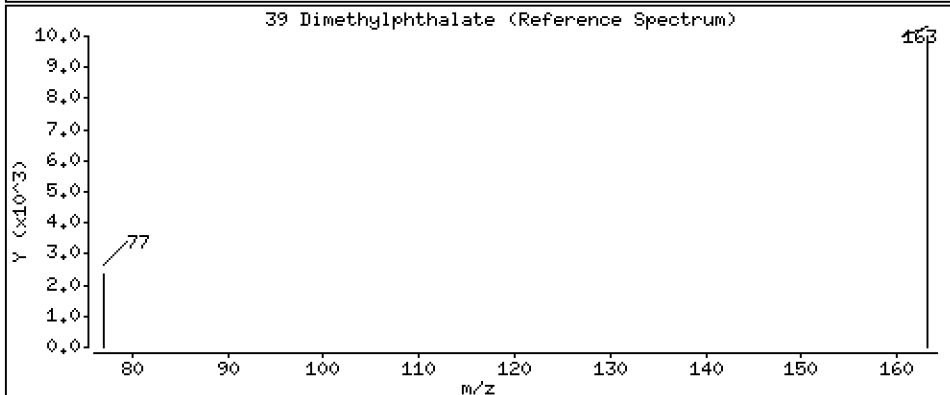
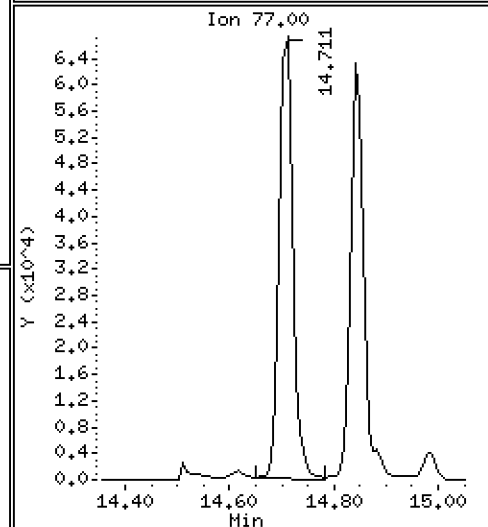
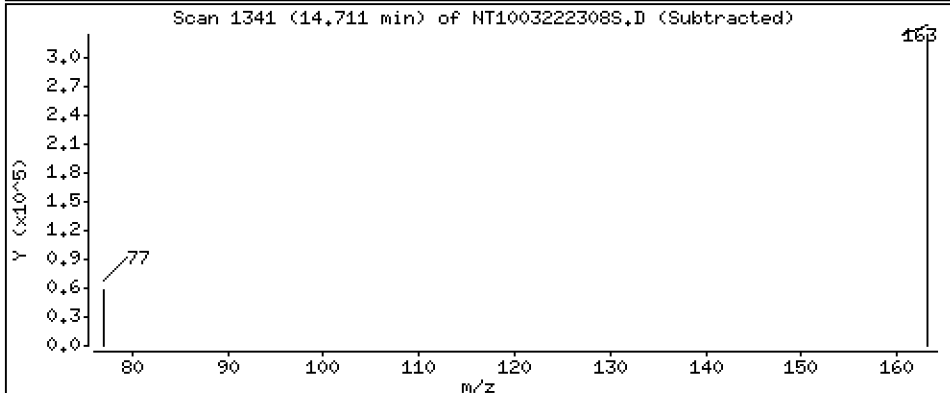
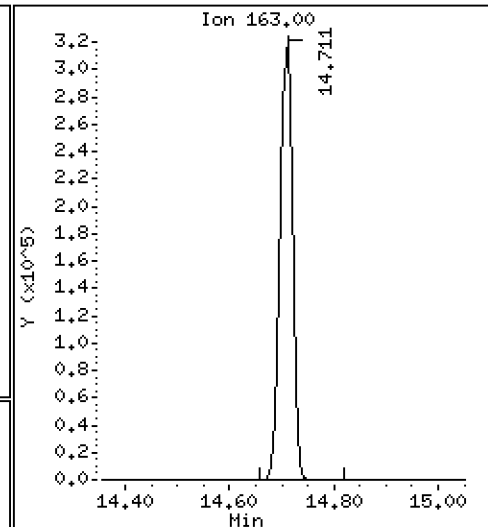
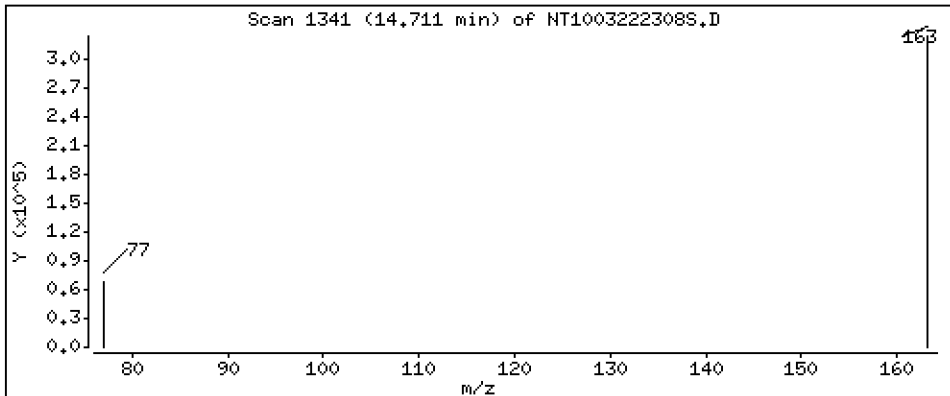
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,129 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

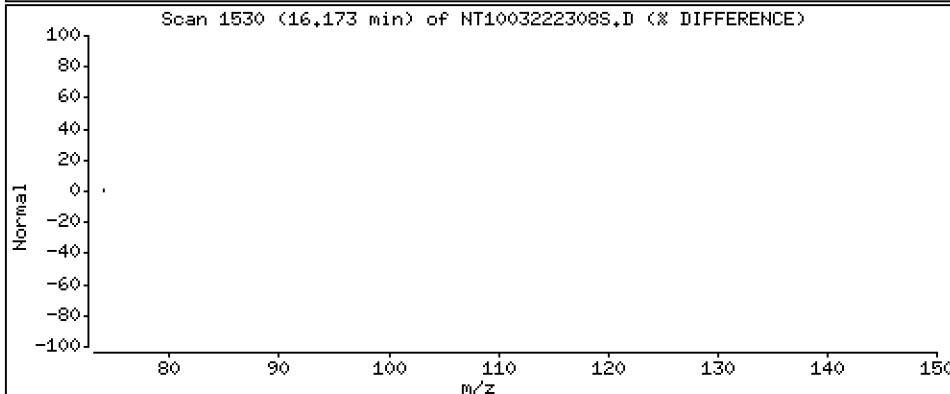
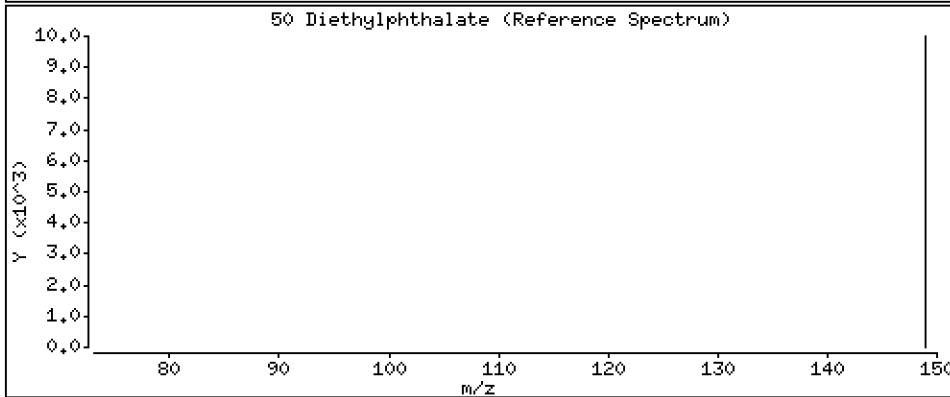
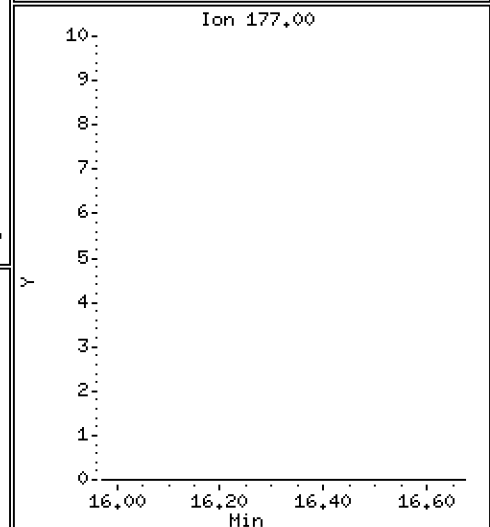
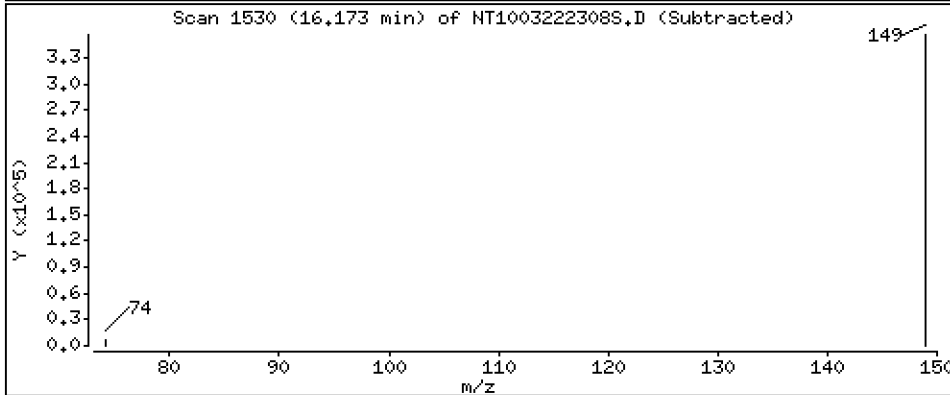
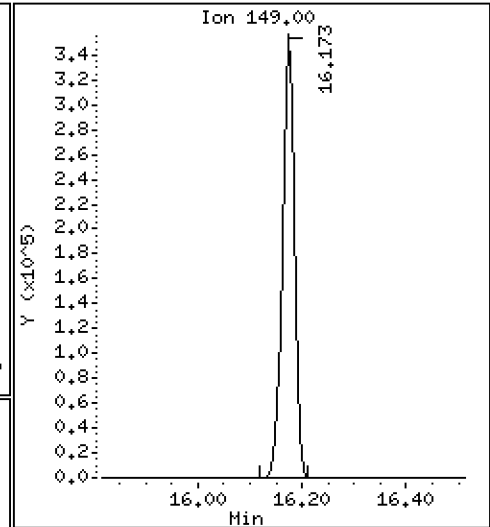
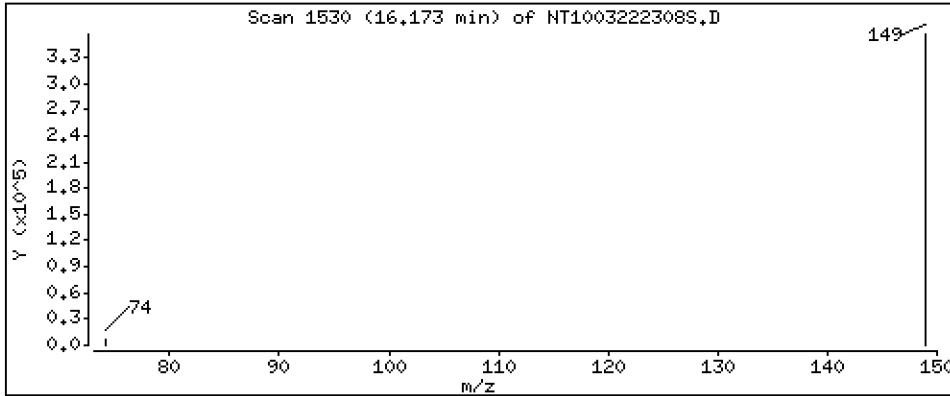
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,641 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

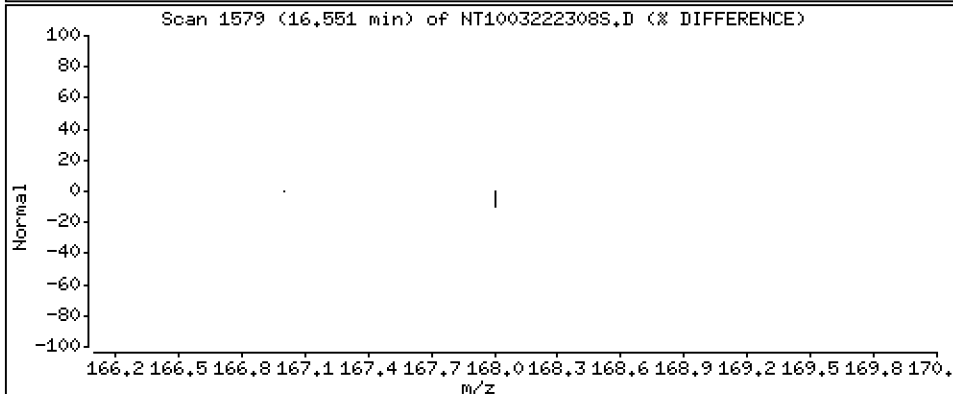
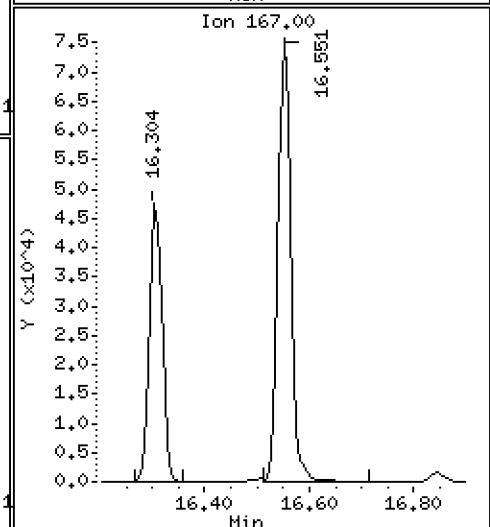
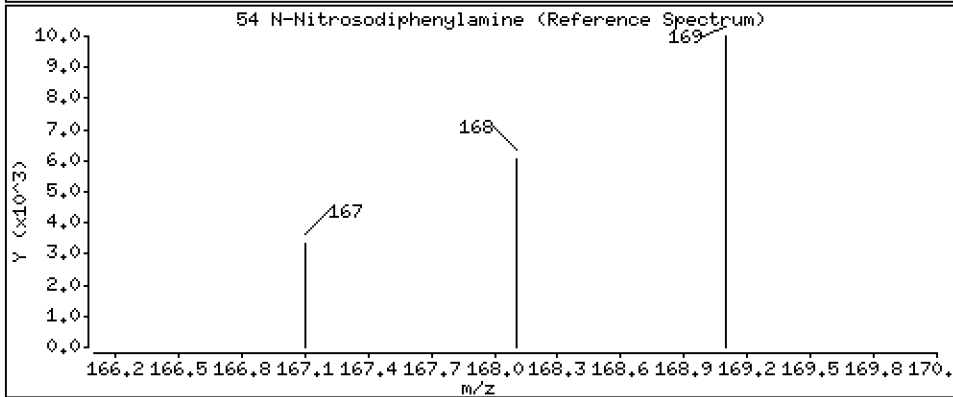
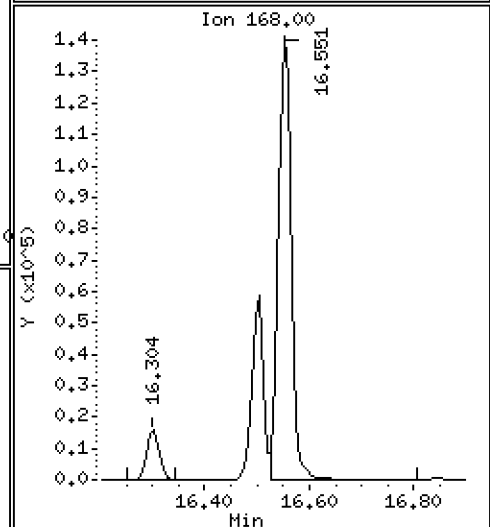
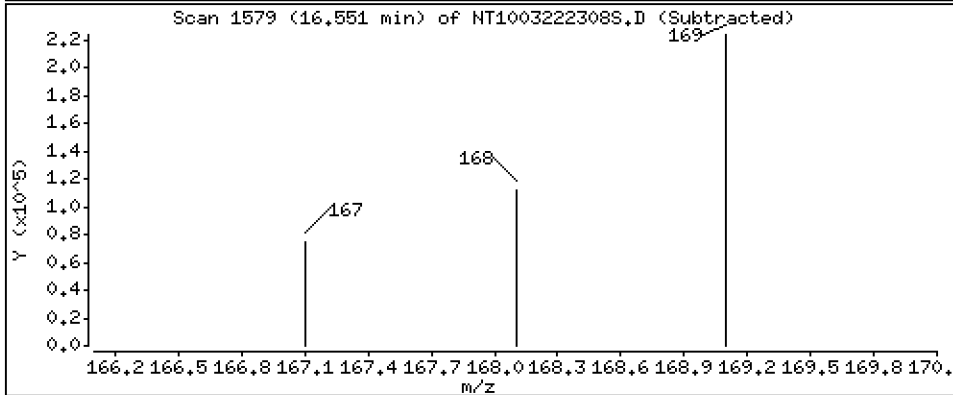
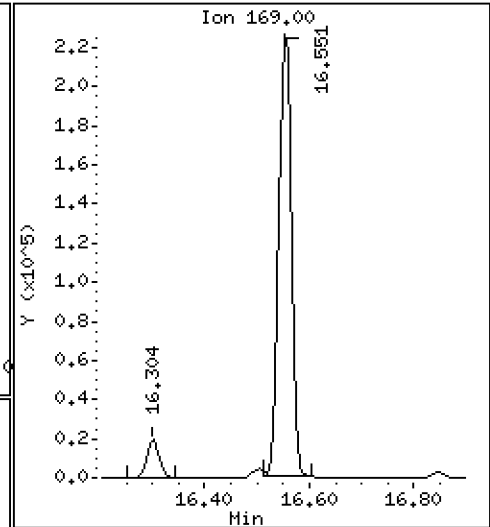
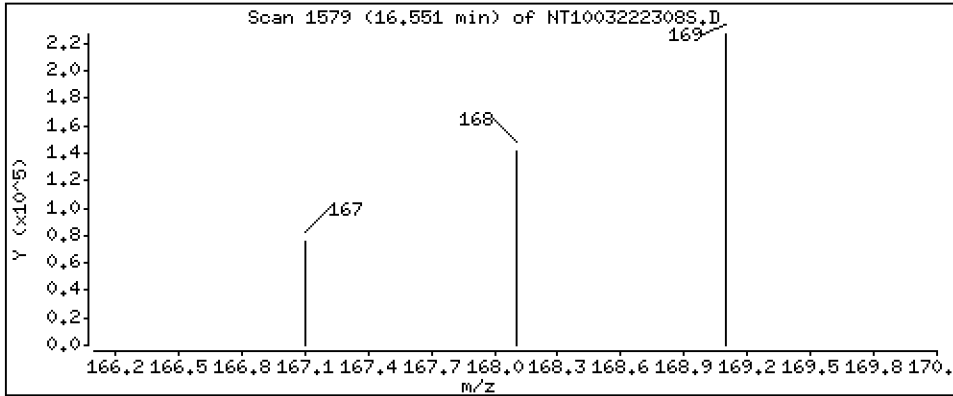
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,353 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

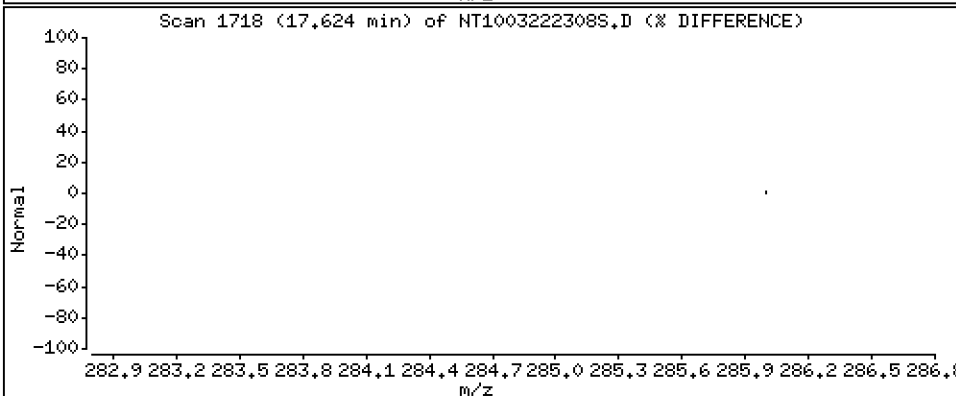
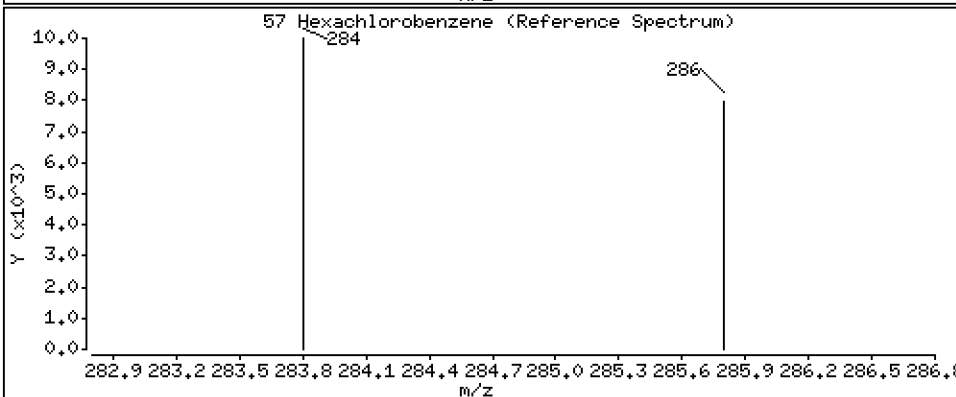
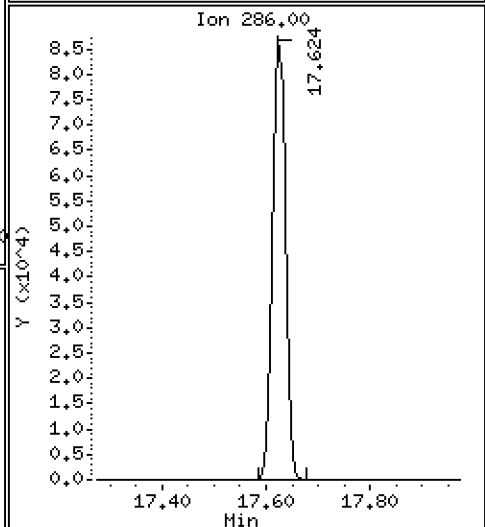
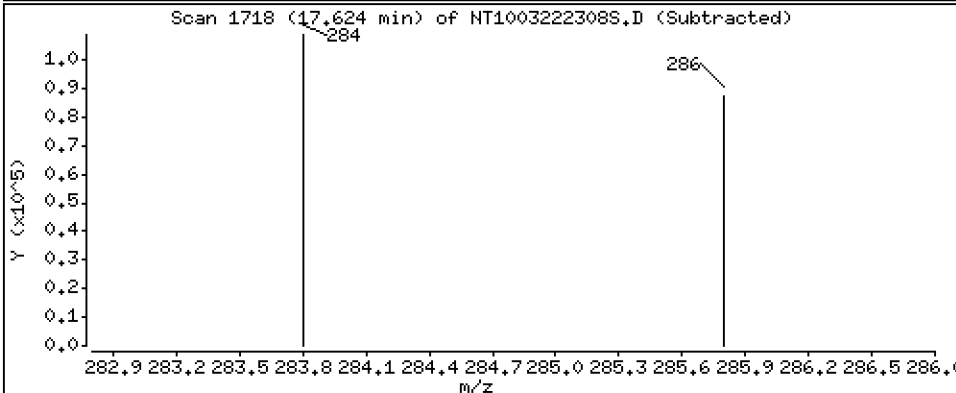
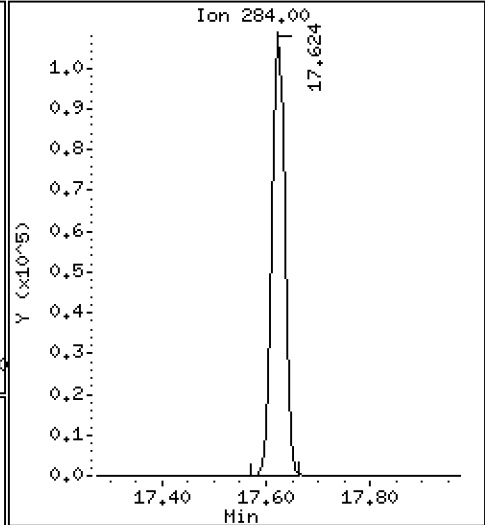
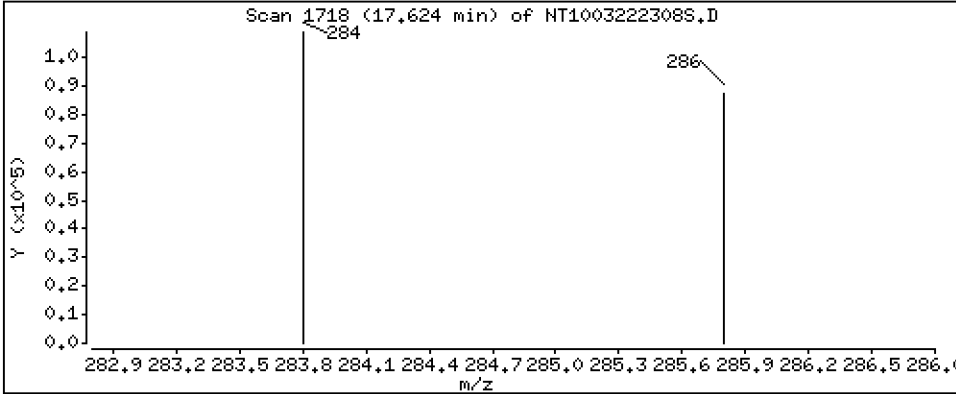
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,696 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

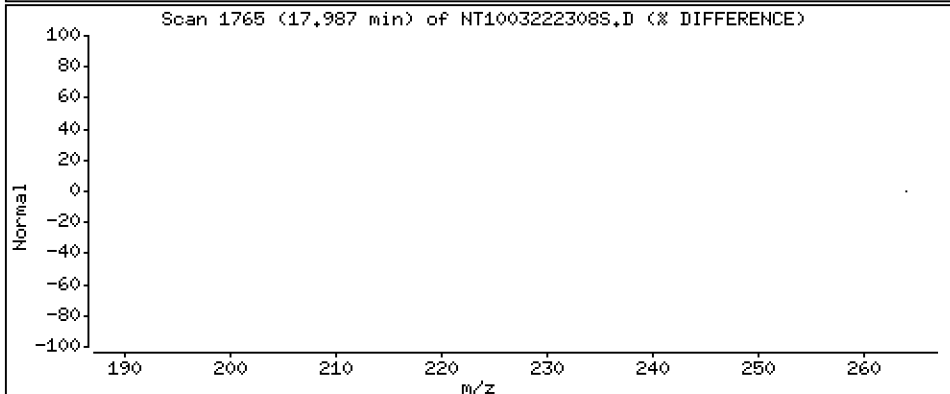
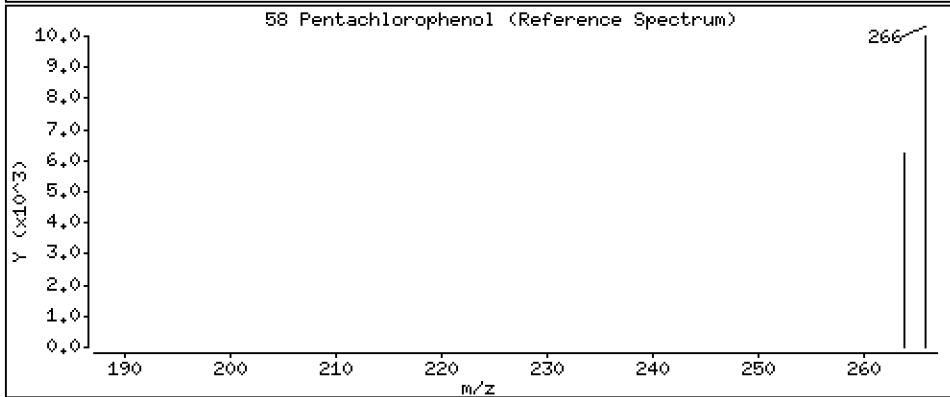
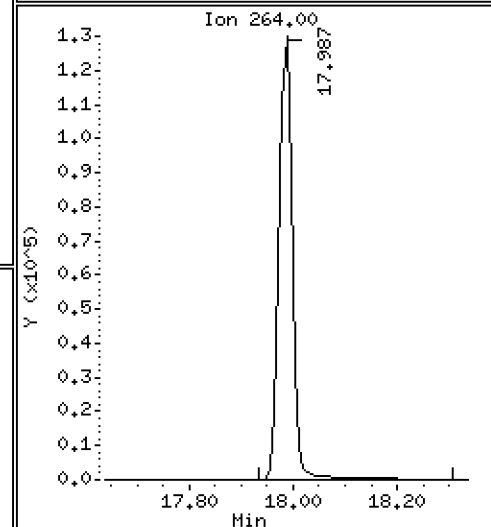
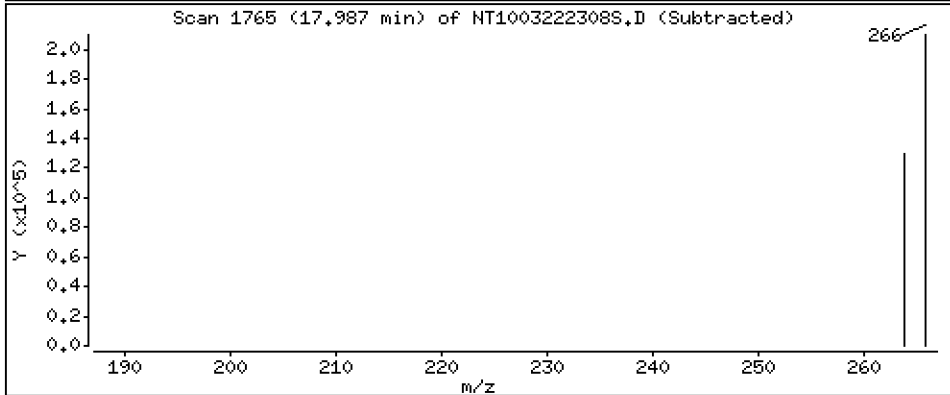
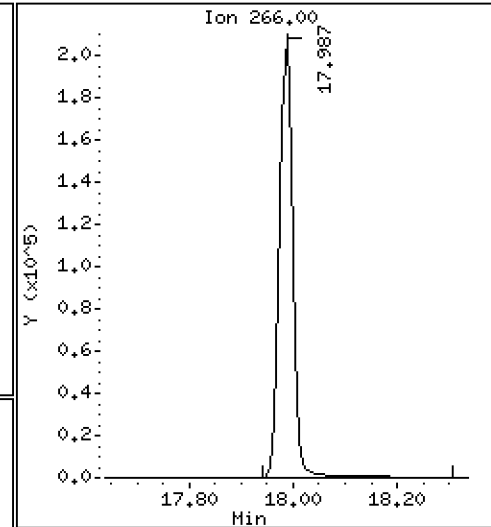
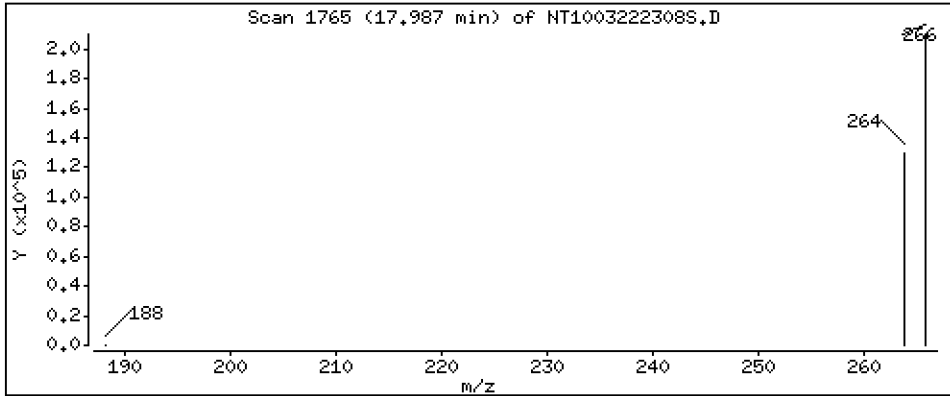
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

58 Pentachlorophenol

Concentration: 15.46 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

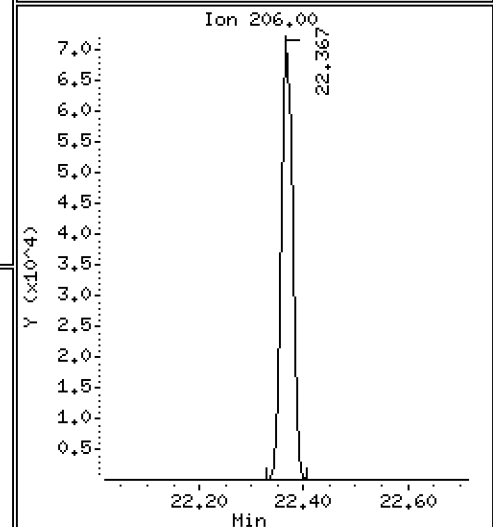
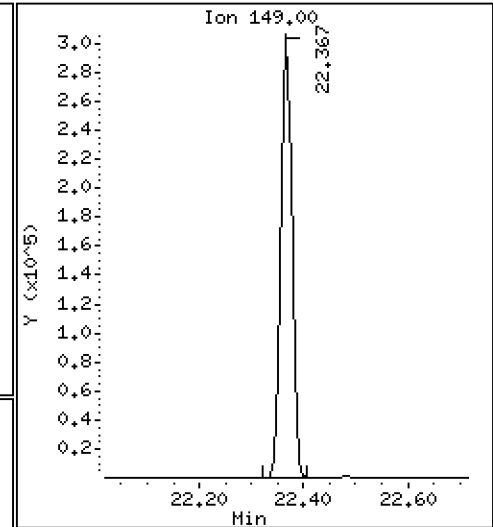
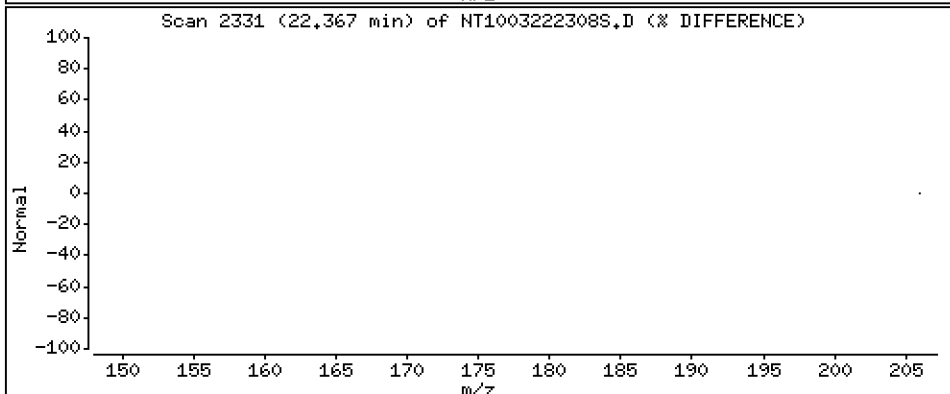
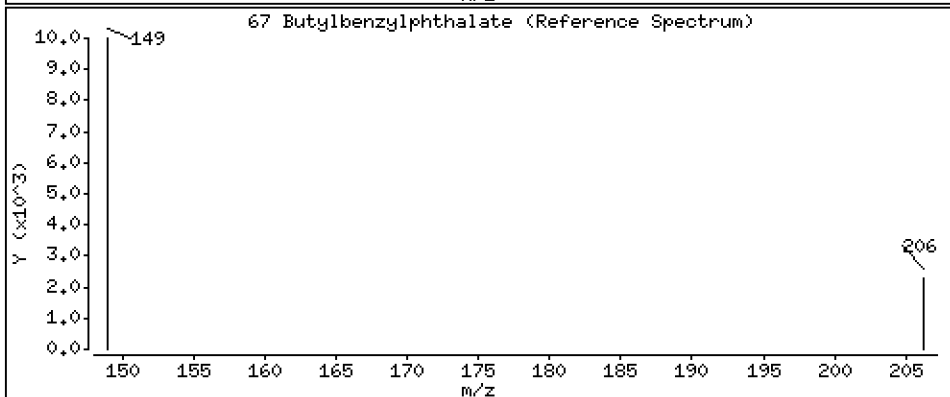
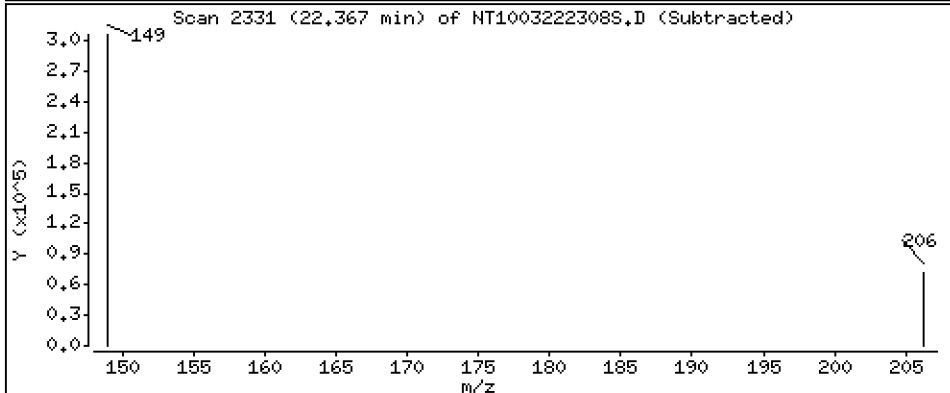
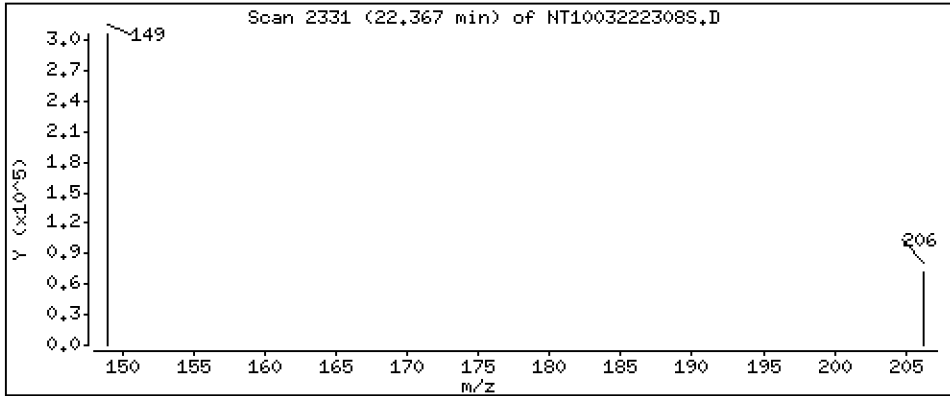
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,544 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

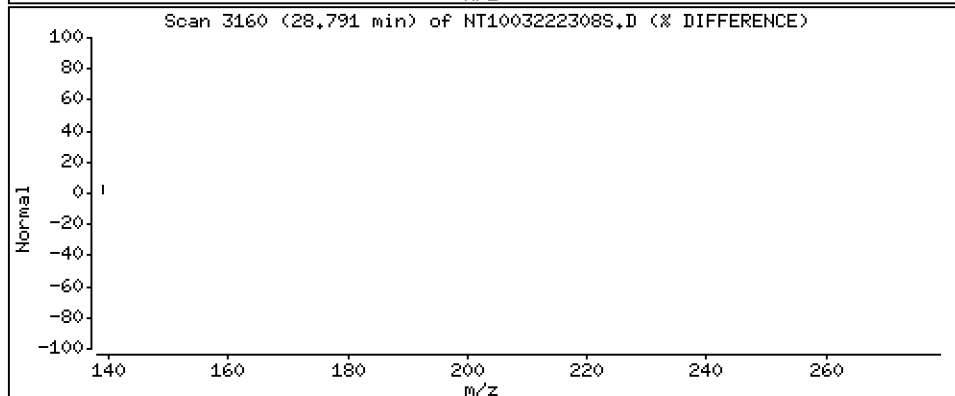
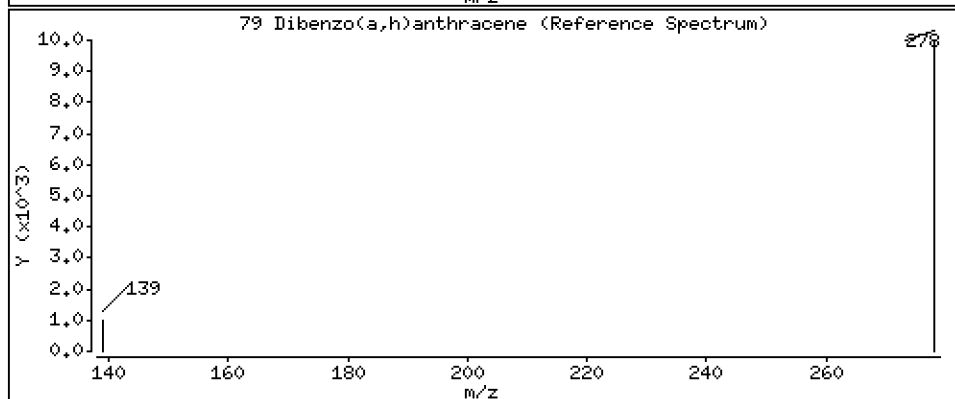
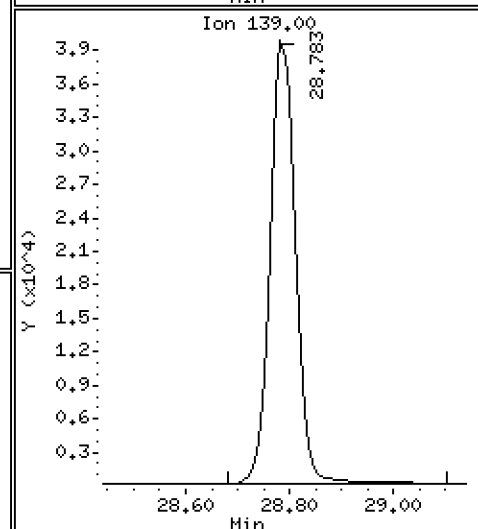
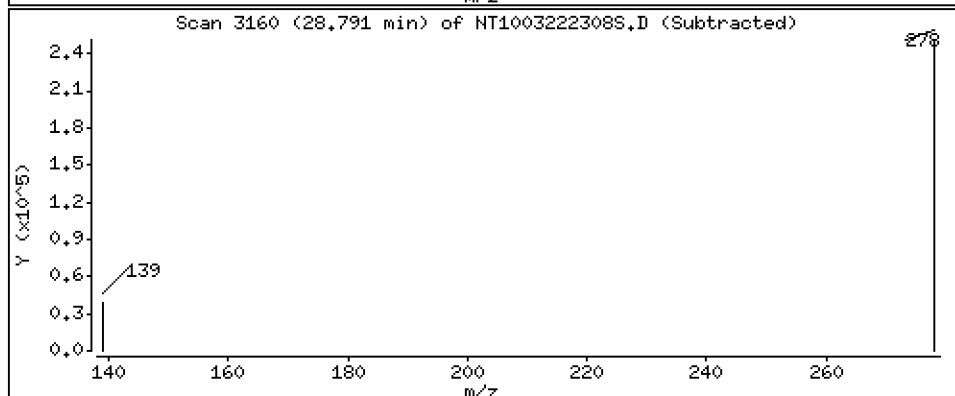
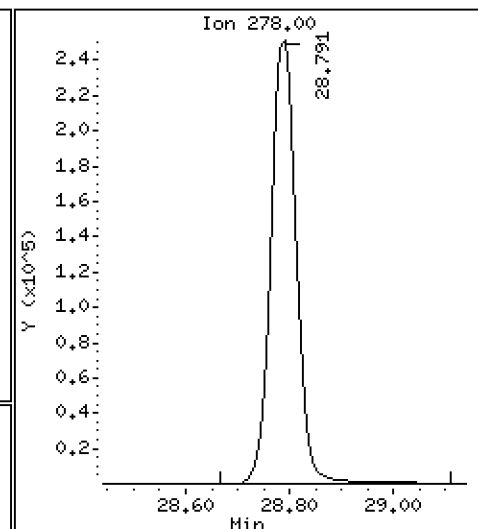
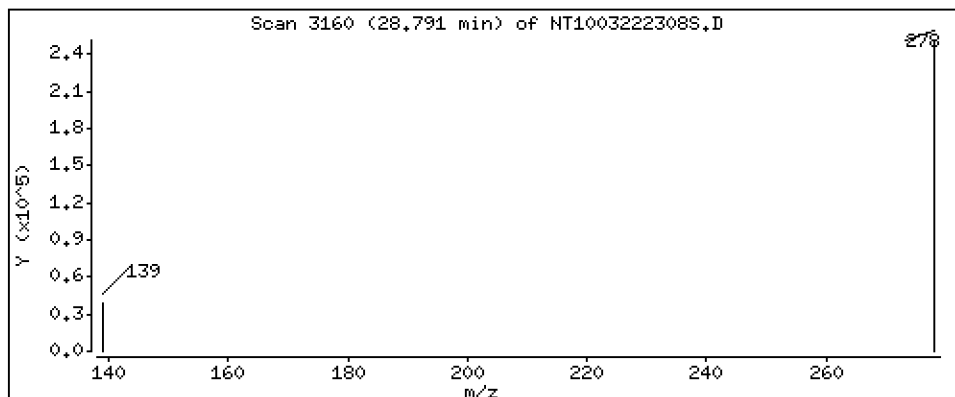
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,338 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

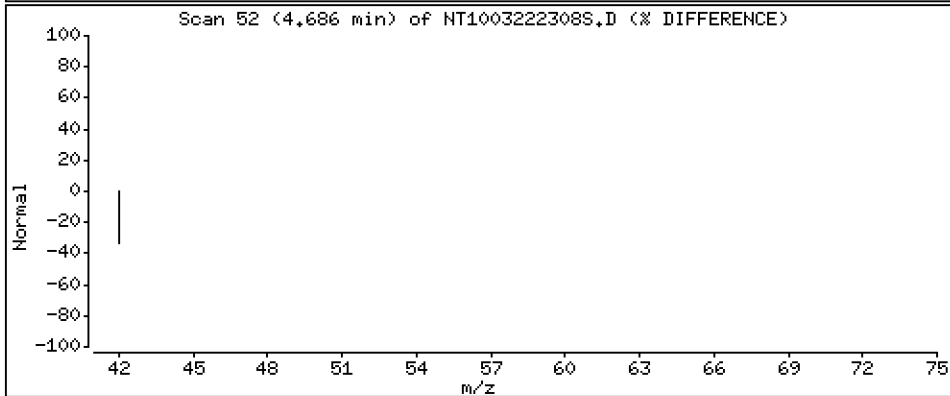
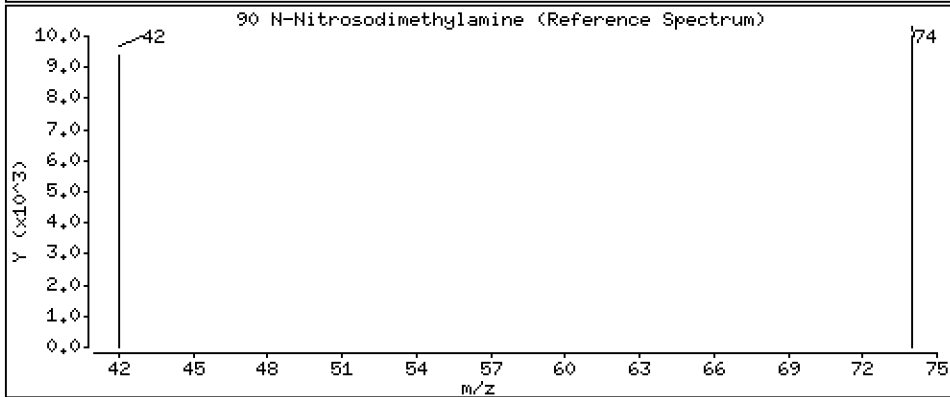
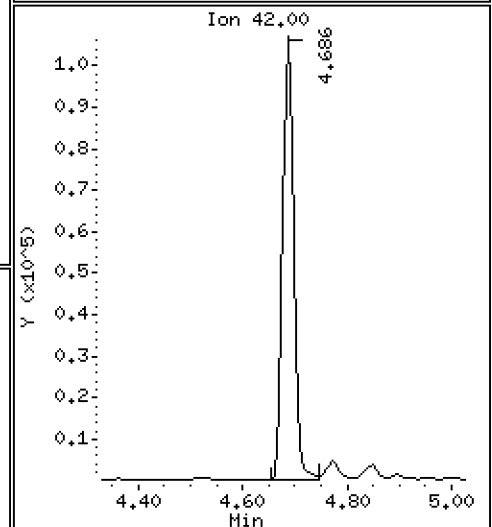
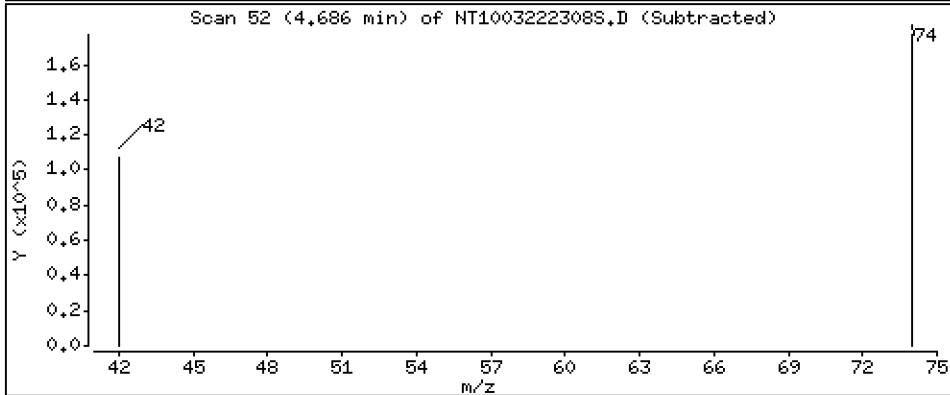
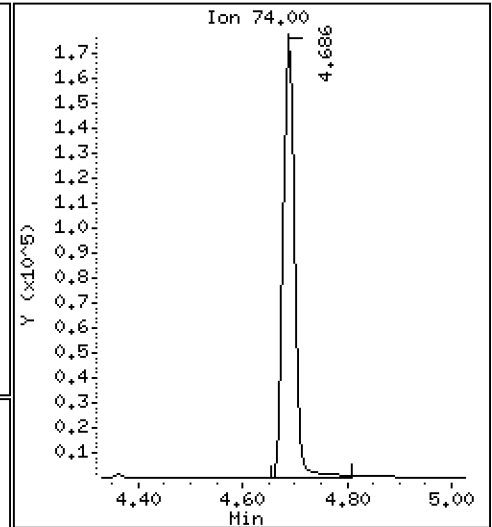
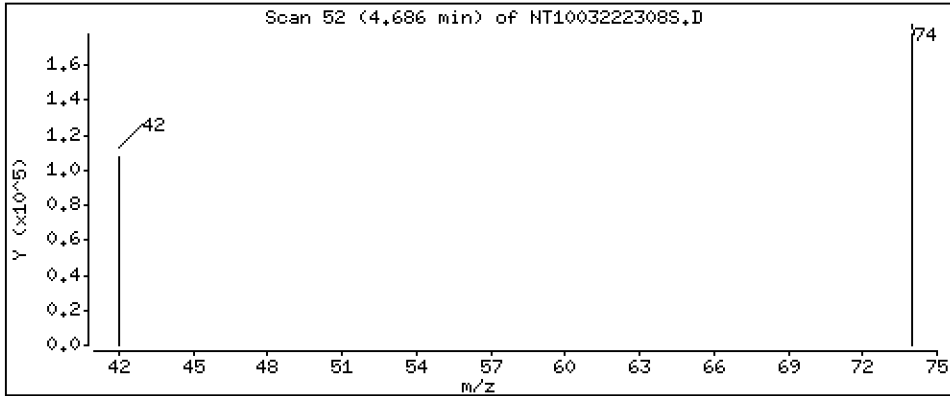
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 7.848 ug/L





ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222308S.D  
 Lab Smp Id: BLC0442-BSD2  
 Inj Date : 22-MAR-2023 21:32 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : BLC0442-BSD1  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Meth Date : 25-Mar-2023 13:23 yev Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 8  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: ORGDATA102

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT     | EXP RT         | REL RT | RESPONSE | CONCENTRATIONS    |              |
|-------------------------------|-------|-----|--------|----------------|--------|----------|-------------------|--------------|
|                               |       |     |        |                |        |          | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| \$ 1 2-Fluorophenol           | 112   |     | 6.864  | 6.856 (0.755)  |        | 312989   | 6.12890           | 6.129 (R)    |
| 3 Phenol                      | 94    |     | 8.471  | 8.471 (0.932)  |        | 261141   | 3.72730           | 3.727        |
| 7 1,3-Dichlorobenzene         | 146   |     | 9.020  | 9.020 (0.992)  |        | 259441   | 3.95735           | 3.957        |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.090  | 9.090 (1.000)  |        | 168404   | 4.00000           |              |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.113  | 9.113 (1.003)  |        | 257209   | 4.06422           | 4.064        |
| 11 Benzyl alcohol             | 79    |     | 9.361  | 9.361 (1.030)  |        | 177250   | 4.36389           | 4.364        |
| 12 1,2-Dichlorobenzene        | 146   |     | 9.470  | 9.470 (1.042)  |        | 253853   | 4.07871           | 4.079        |
| 13 2-Methylphenol             | 108   |     | 9.586  | 9.586 (1.055)  |        | 178661   | 3.68020           | 3.680        |
| 15 4-Methylphenol             | 108   |     | 9.866  | 9.858 (1.085)  |        | 209428   | 4.15156           | 4.152        |
| 16 N-Nitroso-di-n-propylamine | 70    |     | 9.920  | 9.920 (1.091)  |        | 143812   | 4.03113           | 4.031        |
| 22 2,4-Dimethylphenol         | 107   |     | 10.897 | 10.897 (0.941) |        | 297257   | 5.57216           | 5.572        |
| 24 Benzoic acid               | 105   |     | 11.143 | 11.025 (0.963) |        | 1028113  | 30.4278           | 30.43        |
| 26 1,2,4-Trichlorobenzene     | 180   |     | 11.485 | 11.485 (0.992) |        | 220874   | 4.11576           | 4.116        |
| * 27 Naphthalene-d8           | 136   |     | 11.577 | 11.569 (1.000) |        | 617172   | 4.00000           |              |
| 30 Hexachlorobutadiene        | 225   |     | 11.979 | 11.979 (1.035) |        | 141030   | 4.32245           | 4.322        |
| 39 Dimethylphthalate          | 163   |     | 14.711 | 14.703 (0.968) |        | 508655   | 5.12946           | 5.129        |
| * 42 Acenaphthene-d10         | 162   |     | 15.198 | 15.198 (1.000) |        | 314236   | 4.00000           |              |
| 50 Diethylphthalate           | 149   |     | 16.172 | 16.165 (1.064) |        | 579513   | 5.64118           | 5.641        |
| 54 N-Nitrosodiphenylamine     | 169   |     | 16.550 | 16.550 (0.907) |        | 363316   | 4.35308           | 4.353        |
| 57 Hexachlorobenzene          | 284   |     | 17.623 | 17.623 (0.966) |        | 175441   | 4.69566           | 4.696        |

| Compounds                 | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                           |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>( ug/L) |
| 58 Pentachlorophenol      | 266       | 17.987 | 17.987 | (0.986) | 353096   | 15.4555              | 15.46            |
| * 59 Phenanthrene-d10     | 188       | 18.250 | 18.250 | (1.000) | 622069   | 4.00000              |                  |
| \$ 66 Terphenyl-d14       | 244       | 21.422 | 21.422 | (0.918) | 413228   | 4.70693              | 4.707 (R)        |
| 67 Butylbenzylphthalate   | 149       | 22.367 | 22.367 | (0.958) | 419508   | 5.54409              | 5.544            |
| * 69 Chrysene-d12         | 240       | 23.343 | 23.343 | (1.000) | 538810   | 4.00000              |                  |
| * 77 Perylene-d12         | 264       | 26.029 | 26.029 | (1.000) | 608756   | 4.00000              |                  |
| 79 Dibenzo(a,h)anthracene | 278       | 28.790 | 28.790 | (1.106) | 845550   | 4.33842              | 4.338            |
| 90 N-Nitrosodimethylamine | 74        | 4.686  | 4.678  | (0.516) | 254204   | 7.84847              | 7.848            |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT1003222308S.D  
 Lab Smp Id: BLC0442-BSD2  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Misc Info:

Calibration Date: 22-MAR-2023  
 Calibration Time: 18:20  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 135191   | 67596      | 270382  | 168404 | 24.57 |
| 27 Naphthalene-d8   | 487226   | 243613     | 974452  | 617172 | 26.67 |
| 42 Acenaphthene-d10 | 246588   | 123294     | 493176  | 314236 | 27.43 |
| 59 Phenanthrene-d10 | 479352   | 239676     | 958704  | 622069 | 29.77 |
| 69 Chrysene-d12     | 439791   | 219896     | 879582  | 538810 | 22.52 |
| 77 Perylene-d12     | 505700   | 252850     | 1011400 | 608756 | 20.38 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.09     | 8.59     | 9.59  | 9.09   | -0.00 |
| 27 Naphthalene-d8   | 11.57    | 11.07    | 12.07 | 11.58  | 0.07  |
| 42 Acenaphthene-d10 | 15.20    | 14.70    | 15.70 | 15.20  | -0.00 |
| 59 Phenanthrene-d10 | 18.25    | 17.75    | 18.75 | 18.25  | -0.00 |
| 69 Chrysene-d12     | 23.34    | 22.84    | 23.84 | 23.34  | -0.00 |
| 77 Perylene-d12     | 26.03    | 25.53    | 26.53 | 26.03  | -0.00 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222308S.D

Lab ID: BLC0442-BSD2

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 22-MAR-2023 21:32

RT CO-ELUTION COMPOUNDS

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NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND     |
|-------|---------|--------|--------------|
| 0.963 | 0.953   | 0.0096 | Benzoic acid |

RRT check based on Ccal File: SIM.b/NT1003222303S.D

On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*



**MS / MS DUPLICATE RECOVERY**  
**EPA 8270E-SIM**

|                |                                  |                |                        |
|----------------|----------------------------------|----------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>         |
| Client:        | <u>Anchor OEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u> |
| Matrix:        | <u>Solid</u>                     | Analyzed:      | <u>03/23/23 06:24</u>  |
| Batch:         | <u>BLC0442</u>                   | Laboratory ID: | <u>BLC0442-MS2</u>     |
| Preparation:   | <u>EPA 3546 (Microwave)</u>      | Sequence Name: | <u>Matrix Spike</u>    |
| Initial/Final: | <u>13.41 g / 1 mL</u>            | Source Sample: | <u>LDW23-SS1200</u>    |

| COMPOUND               | SPIKE ADDED (ug/kg dry) | SAMPLE CONCENTRATION (ug/kg dry) | Q | MS CONCENTRATION (ug/kg dry) | Q | MS % REC. # | QC LIMITS REC. |
|------------------------|-------------------------|----------------------------------|---|------------------------------|---|-------------|----------------|
| 1,4-Dichlorobenzene    | 500                     | ND                               | U | 392                          |   | 78.4        | 36 - 120       |
| 1,2-Dichlorobenzene    | 500                     | ND                               | U | 391                          |   | 78.2        | 36 - 120       |
| Benzyl Alcohol         | 500                     | 5.5                              | J | 410                          |   | 81.0        | 25 - 123       |
| Benzoic acid           | 2300                    | 26.3                             | J | 2510                         |   | 108         | 10 - 160       |
| 2,4-Dimethylphenol     | 1300                    | ND                               | U | 1100                         |   | 84.7        | 10 - 120       |
| 1,2,4-Trichlorobenzene | 500                     | ND                               | U | 400                          |   | 80.0        | 35 - 120       |
| N-Nitrosodiphenylamine | 500                     | ND                               | U | 410                          |   | 81.9        | 27 - 120       |
| Pentachlorophenol      | 1300                    | ND                               | U | 1640                         | * | 126 *       | 26 - 120       |

\* Values outside of QC limits



**MS / MS DUPLICATE RECOVERY**  
**EPA 8270E-SIM**

|                |                                  |                |                         |
|----------------|----------------------------------|----------------|-------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>          |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u>  |
| Matrix:        | <u>Solid</u>                     | Analyzed:      | <u>03/23/23 07:01</u>   |
| Batch:         | <u>BLC0442</u>                   | Laboratory ID: | <u>BLC0442-MSD2</u>     |
| Preparation:   | <u>EPA 3546 (Microwave)</u>      | Sequence Name: | <u>Matrix Spike Dup</u> |
| Initial/Final: | <u>13.41 g / 1 mL</u>            | Source Sample: | <u>LDW23-SS1200</u>     |

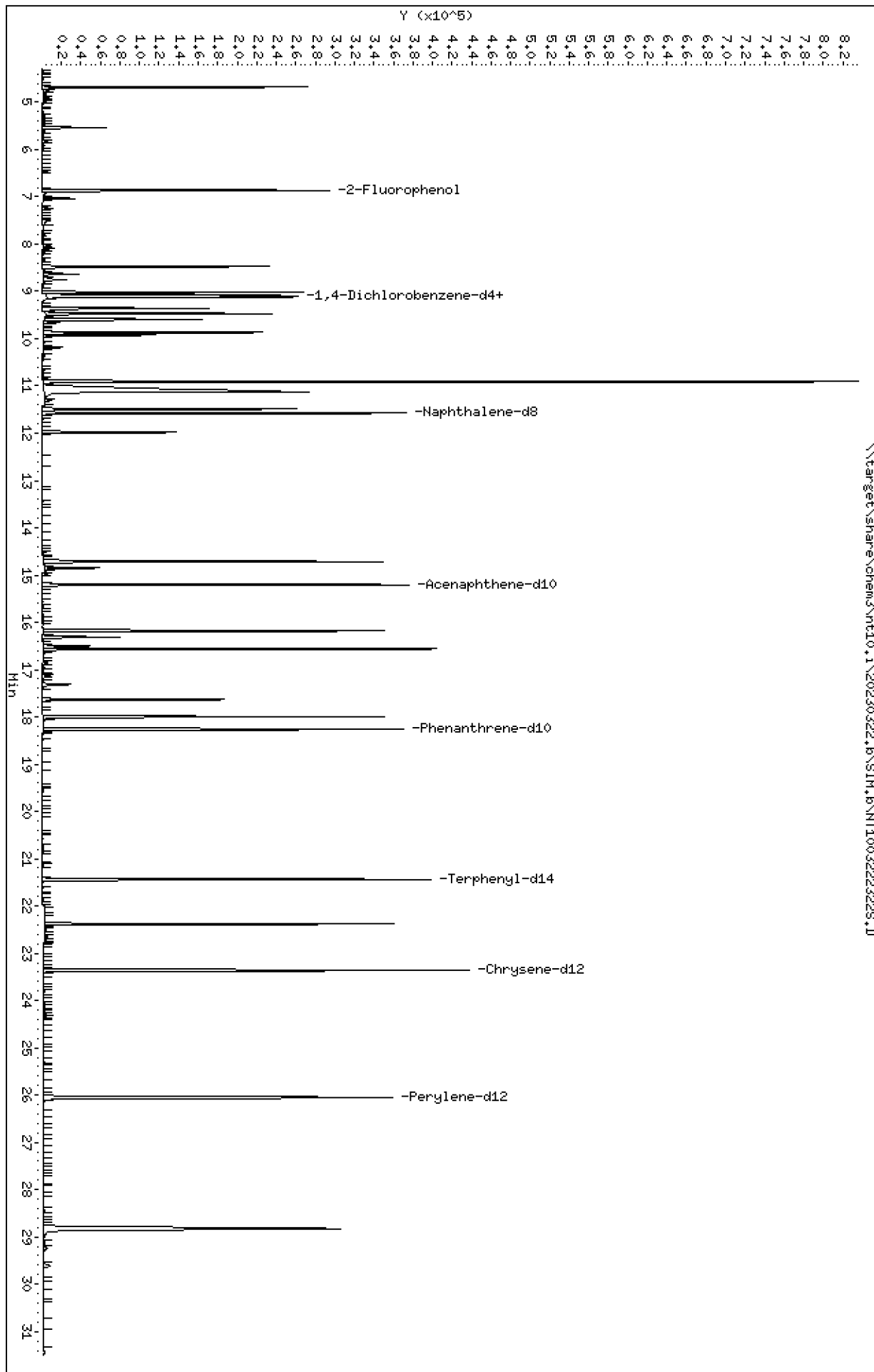
| COMPOUND               | SPIKE ADDED (ug/kg dry) | MSD CONCENTRATION (ug/kg dry) | Q | MSD % REC. # | % RPD # | QC LIMITS |          |
|------------------------|-------------------------|-------------------------------|---|--------------|---------|-----------|----------|
|                        |                         |                               |   |              |         | RPD       | REC.     |
| 1,4-Dichlorobenzene    | 500                     | 356                           |   | 71.2         | 9.63    | 30        | 36 - 120 |
| 1,2-Dichlorobenzene    | 500                     | 358                           |   | 71.7         | 8.77    | 30        | 36 - 120 |
| Benzyl Alcohol         | 500                     | 388                           |   | 76.5         | 5.65    | 30        | 25 - 123 |
| Benzoic acid           | 2300                    | 2560                          |   | 110          | 2.14    | 30        | 10 - 160 |
| 2,4-Dimethylphenol     | 1300                    | 304                           | * | 23.4         | 114 *   | 30        | 10 - 120 |
| 1,2,4-Trichlorobenzene | 500                     | 377                           |   | 75.3         | 5.99    | 30        | 35 - 120 |
| N-Nitrosodiphenylamine | 500                     | 372                           |   | 74.3         | 9.73    | 30        | 27 - 120 |
| Pentachlorophenol      | 1300                    | 1550                          |   | 119          | 5.21    | 30        | 26 - 120 |

\* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230322.16\SIH.6\NT1003222322S.D  
Date: 23-MAR-2023 06:24  
Client ID:  
Sample Info: BLC0442-HS1  
Volume Injected (uL): 1.0  
Column phase: ZB-5msi

Instrument: nt10.1  
Operator: JGR  
Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\SIH.6\NT1003222322S.D



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

Volume Injected (uL): 1.0

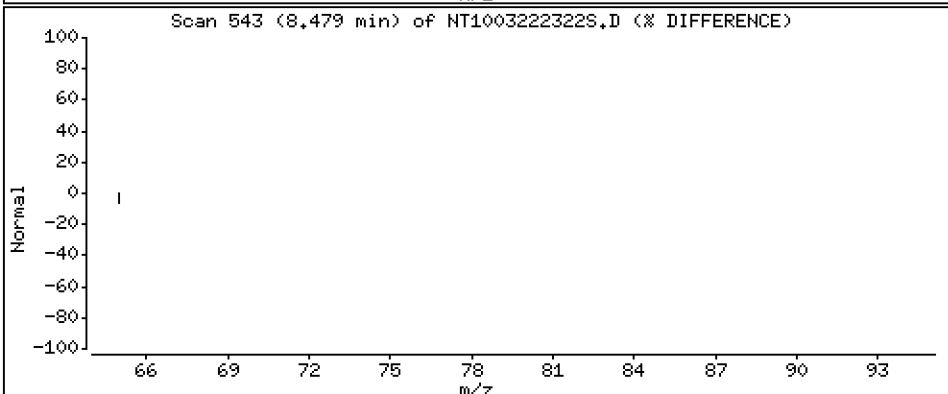
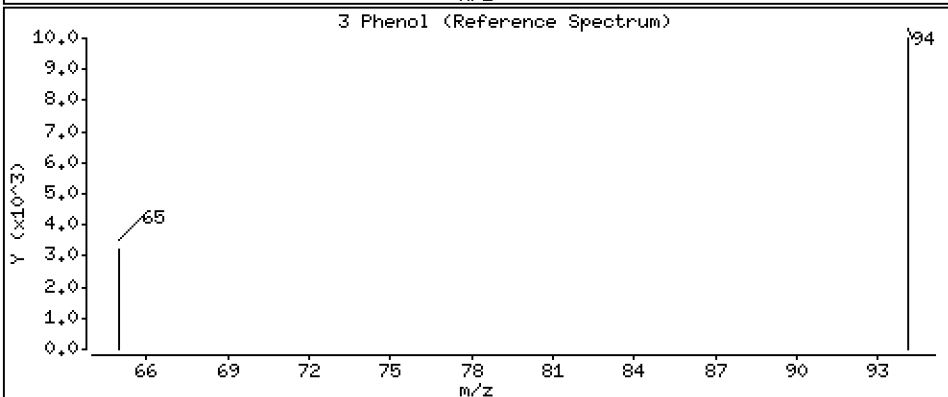
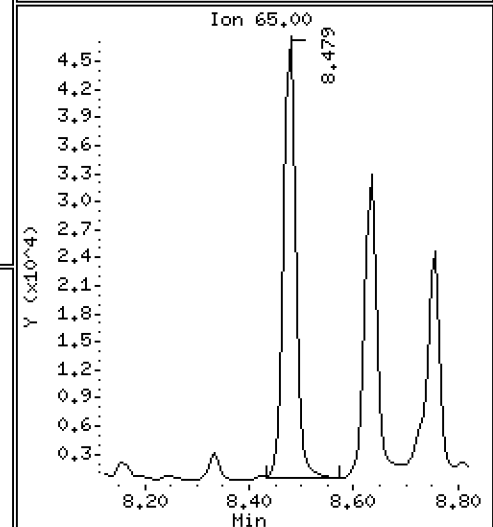
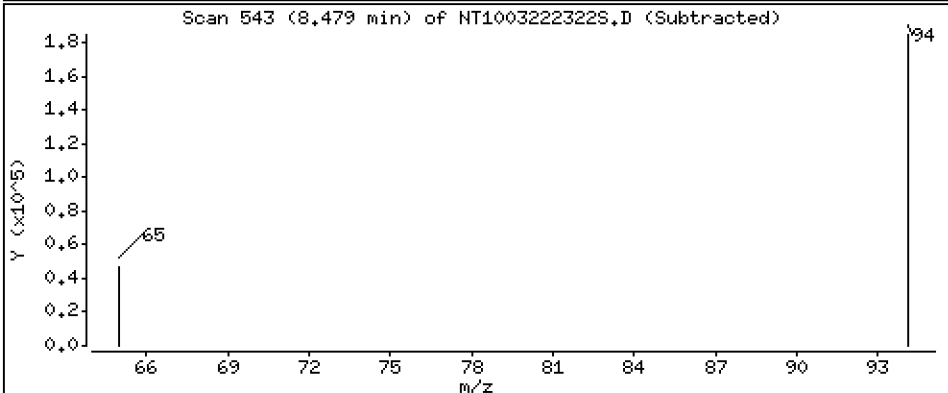
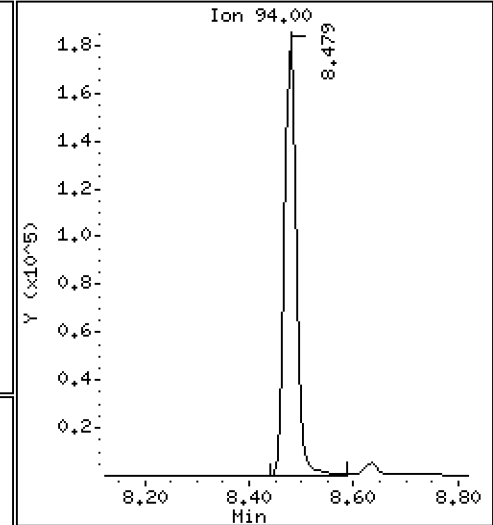
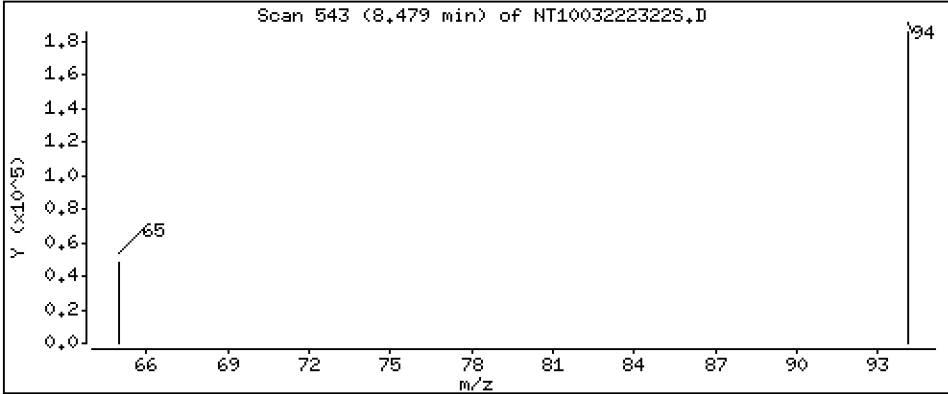
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 4.114 ug/L





Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

Volume Injected (uL): 1.0

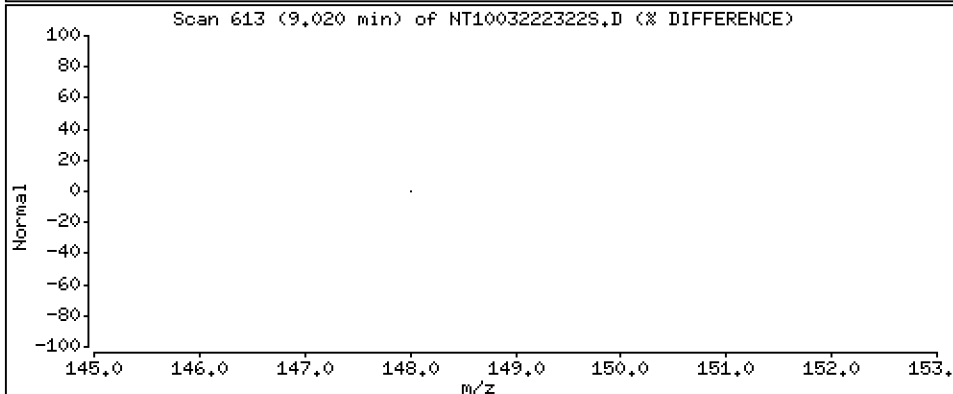
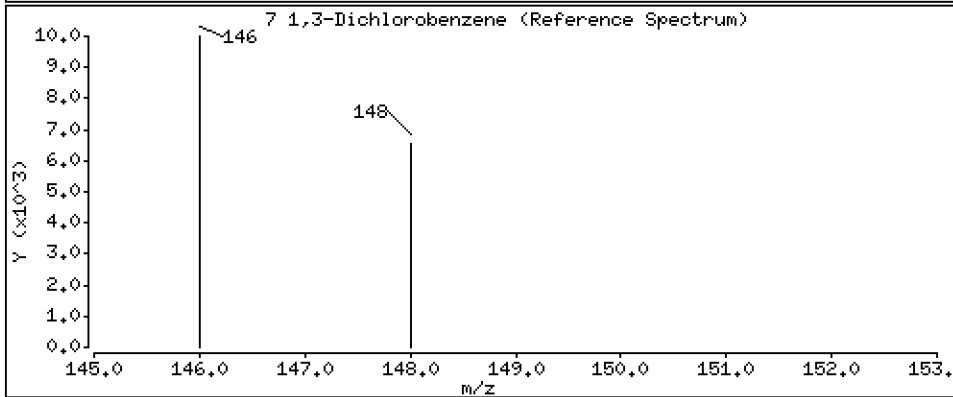
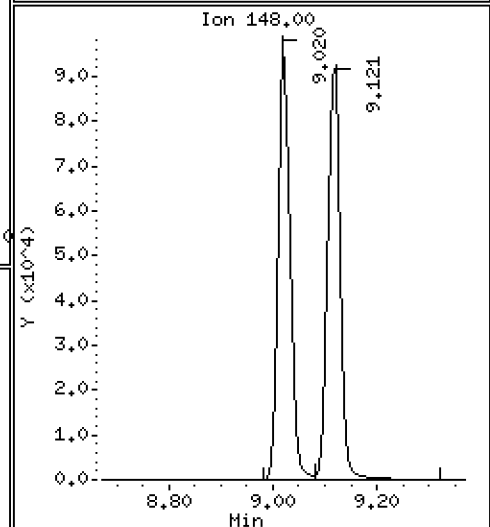
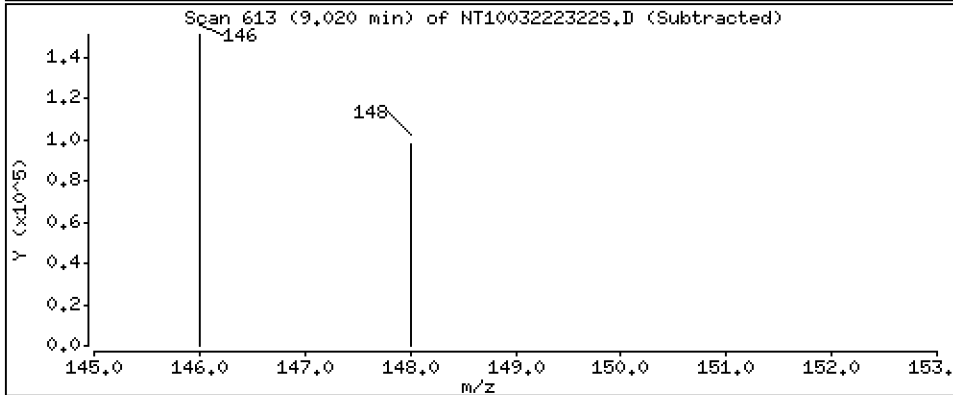
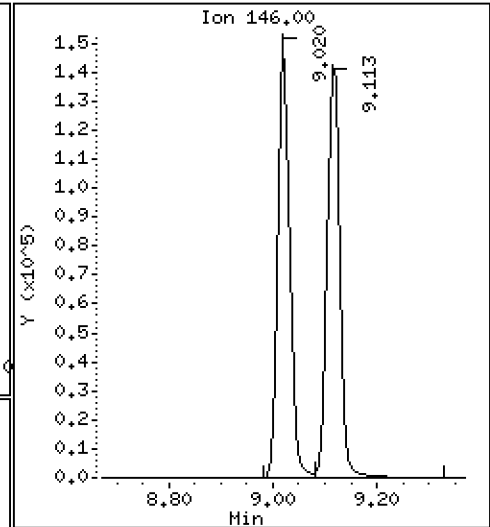
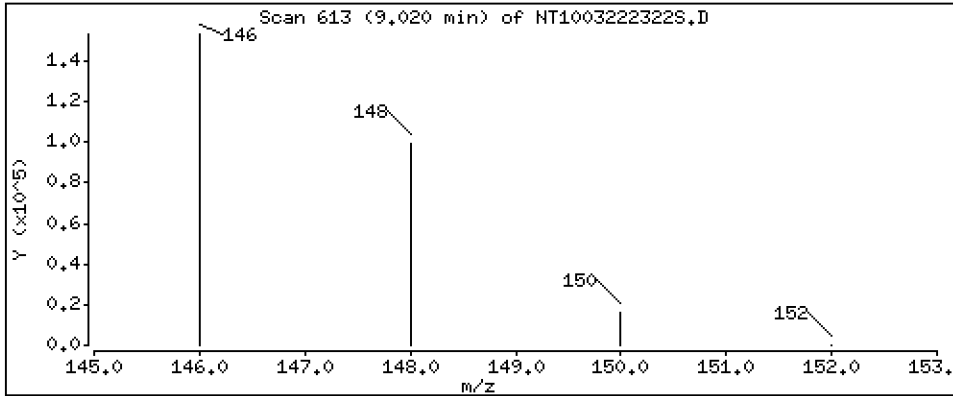
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 3,776 ug/L



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

Volume Injected (uL): 1.0

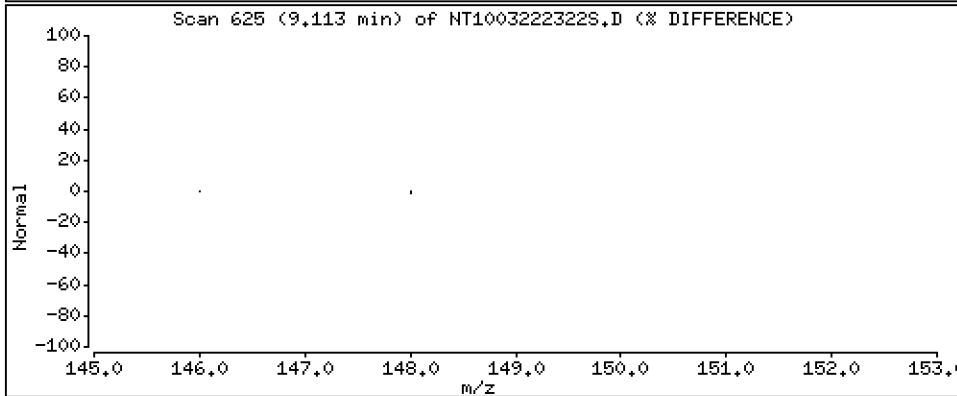
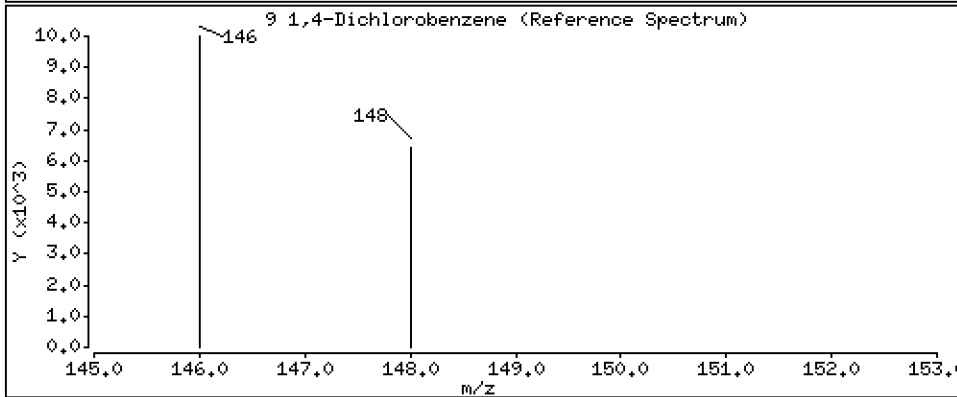
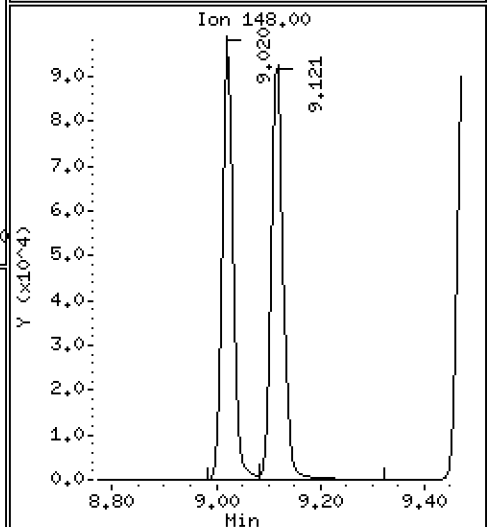
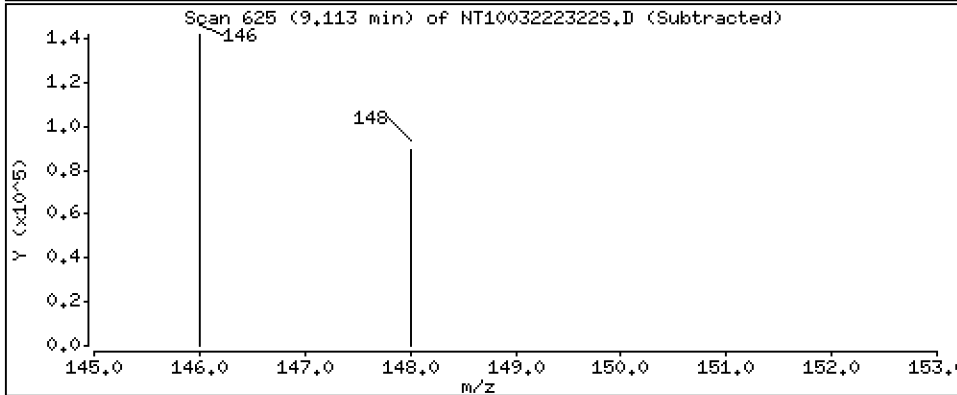
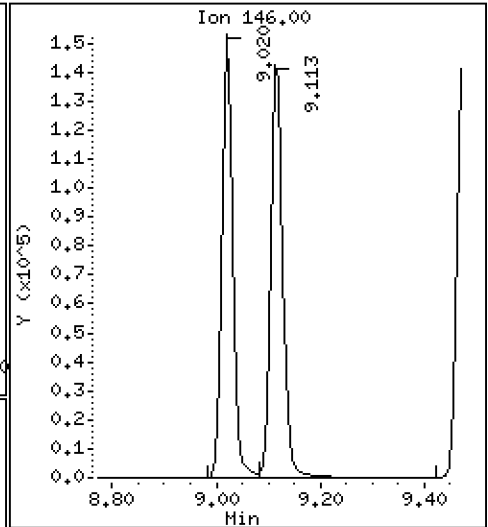
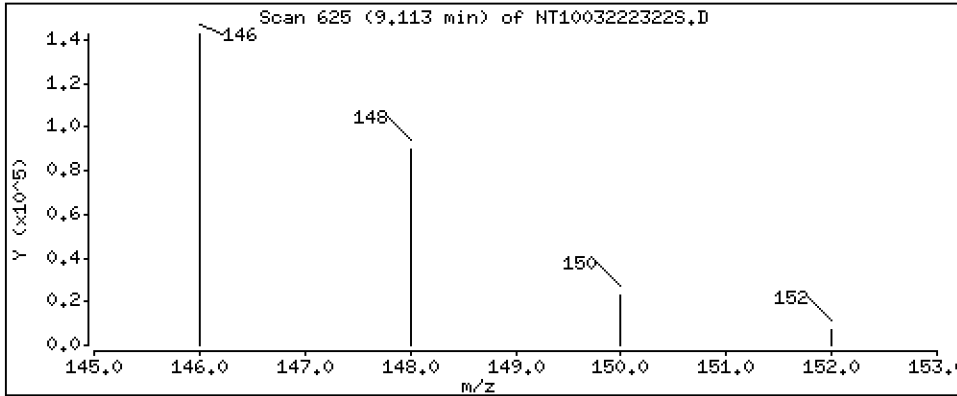
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 3.919 ug/L



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

Volume Injected (uL): 1.0

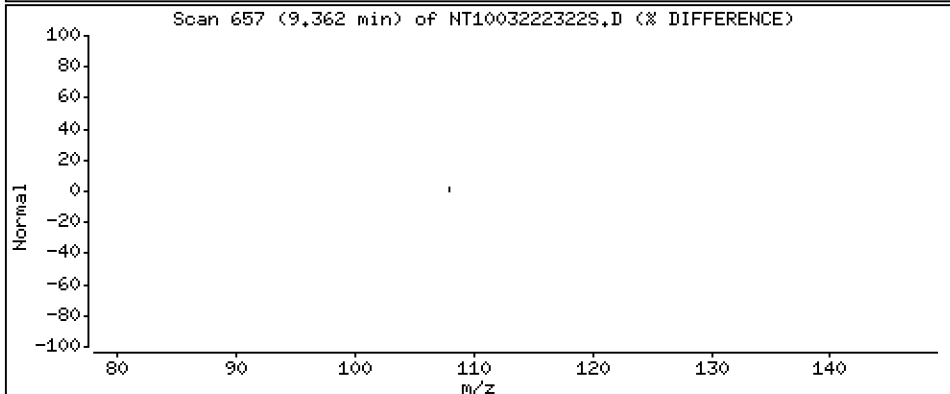
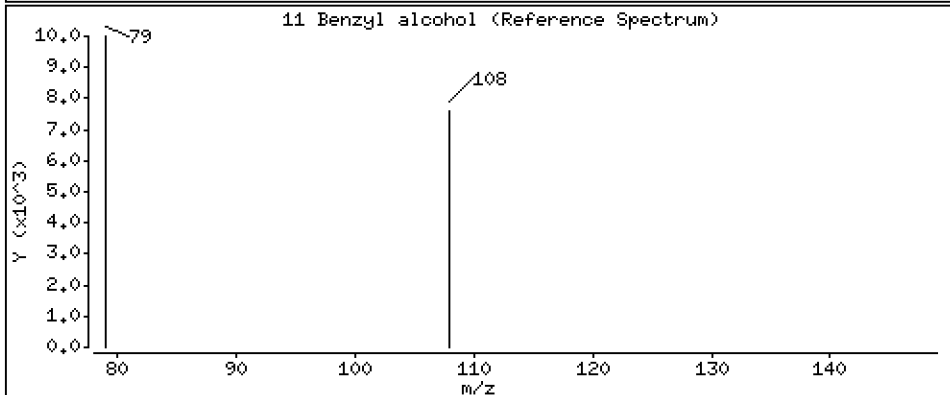
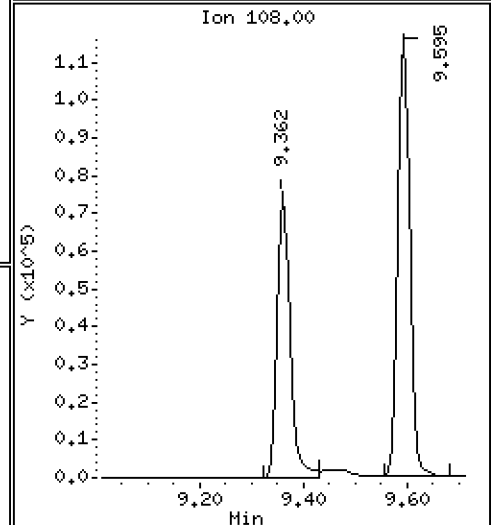
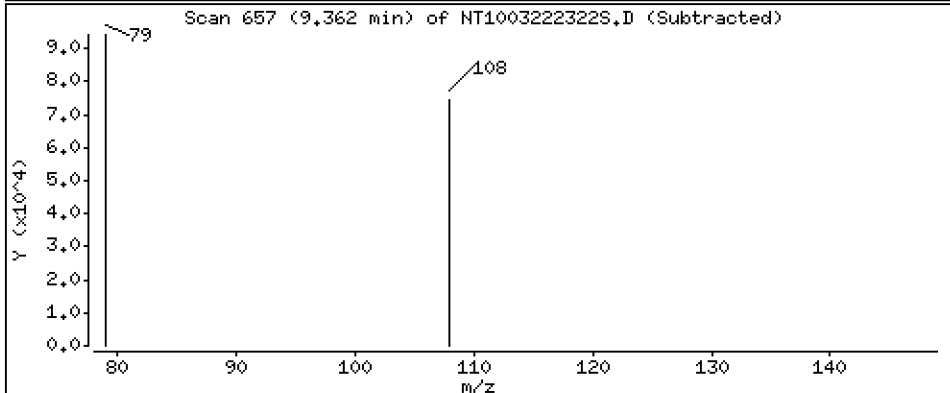
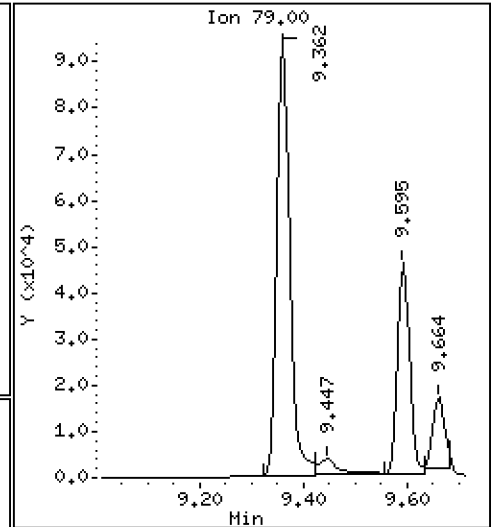
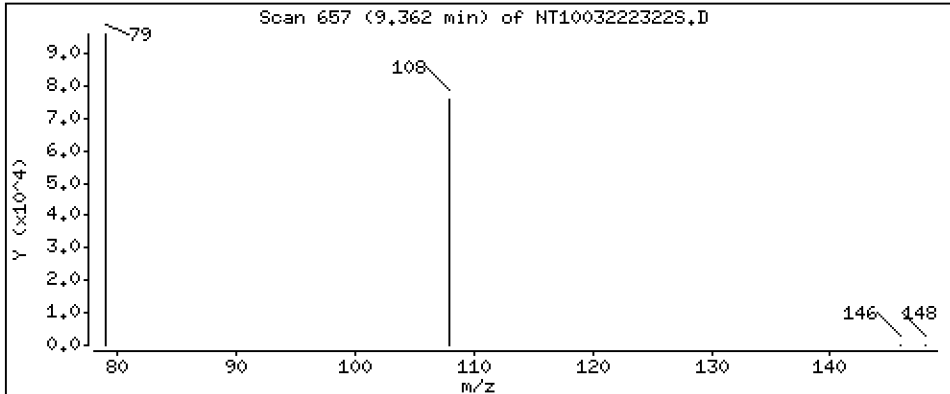
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.104 ug/L



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

Volume Injected (uL): 1.0

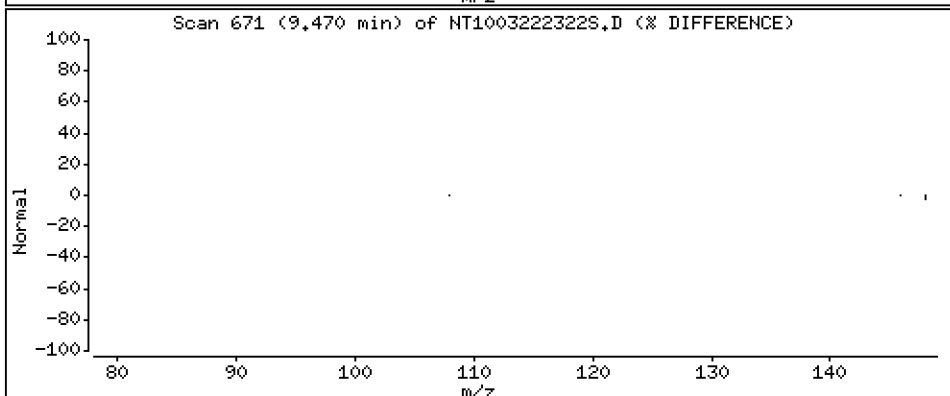
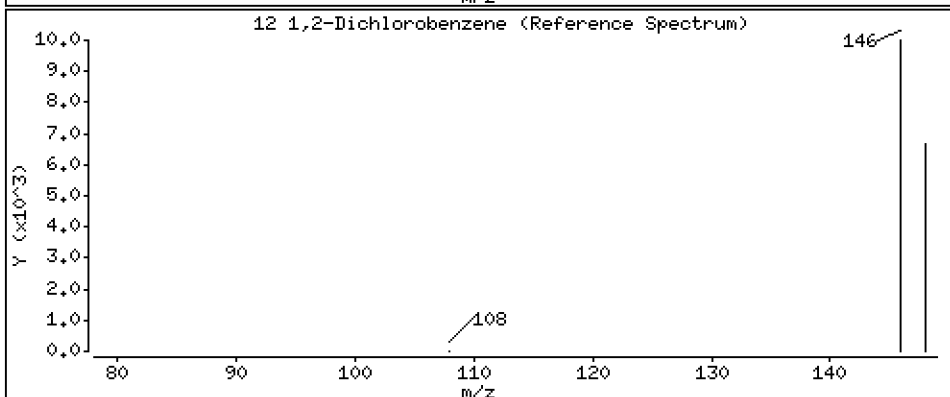
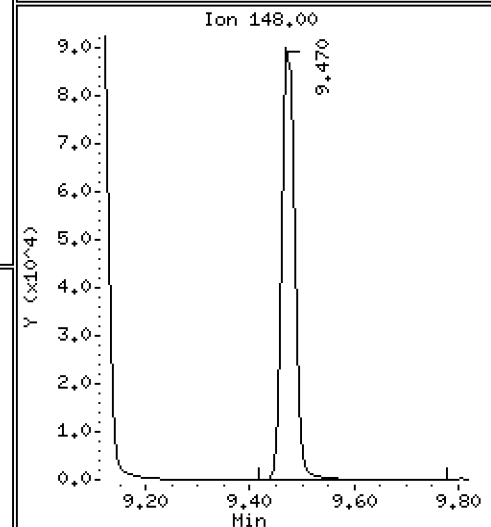
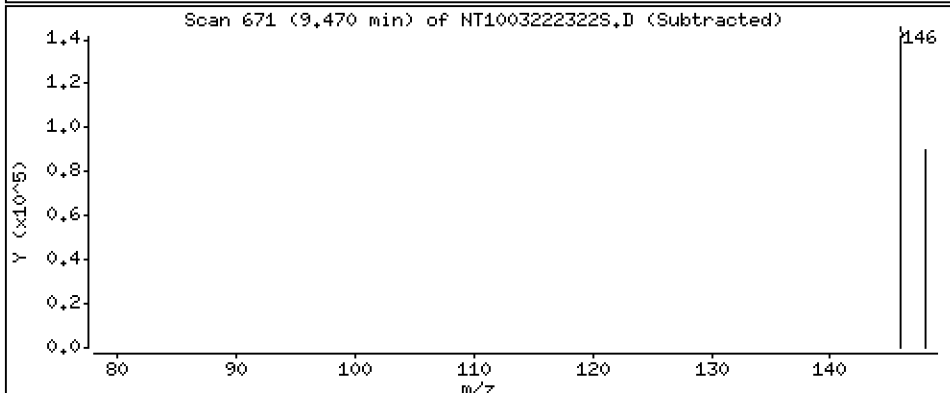
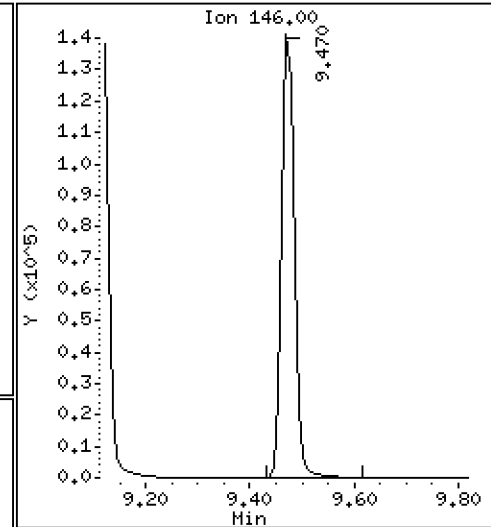
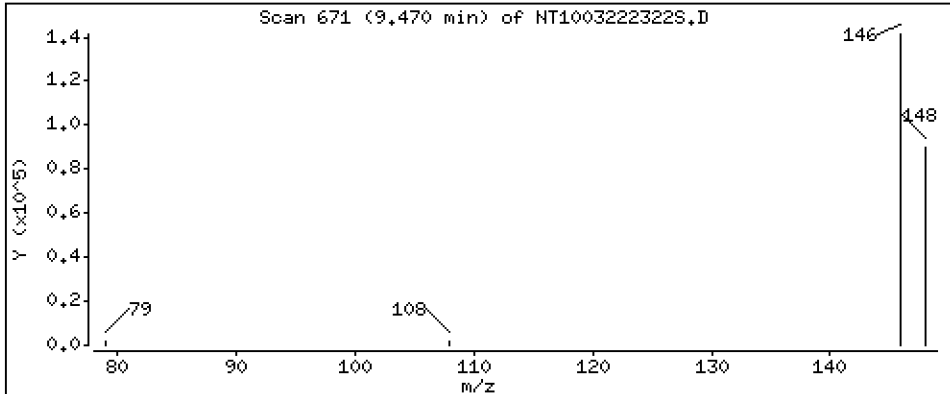
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 3,912 ug/L



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

Volume Injected (uL): 1.0

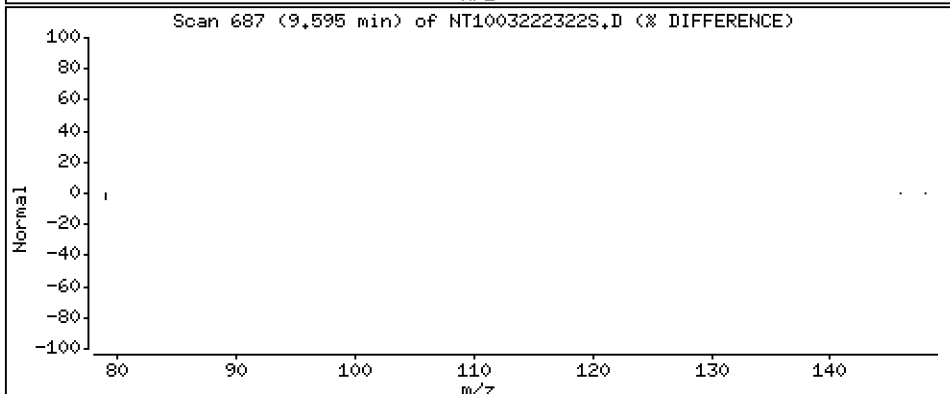
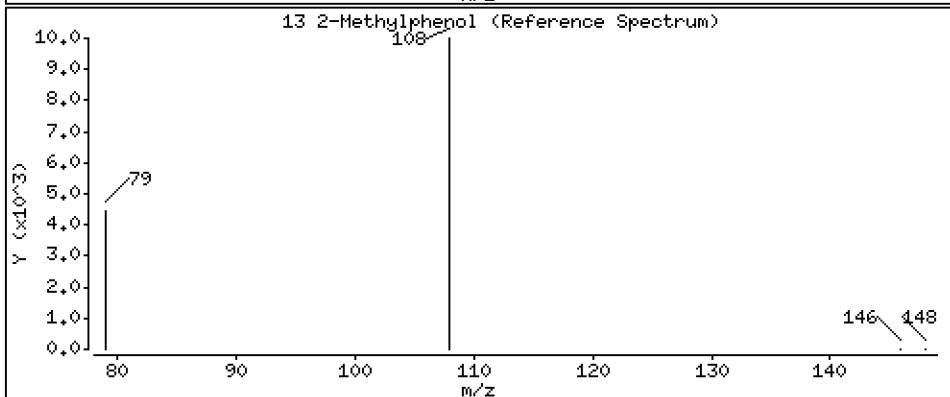
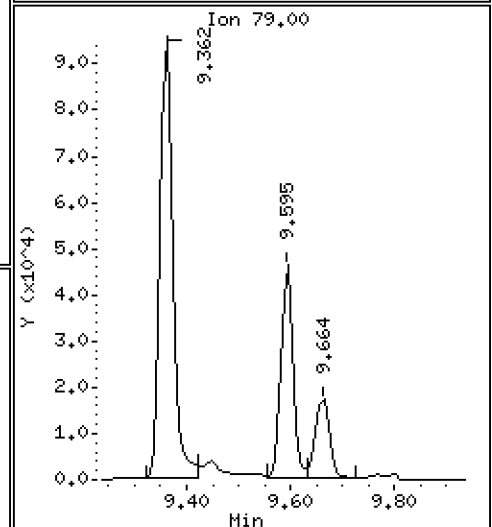
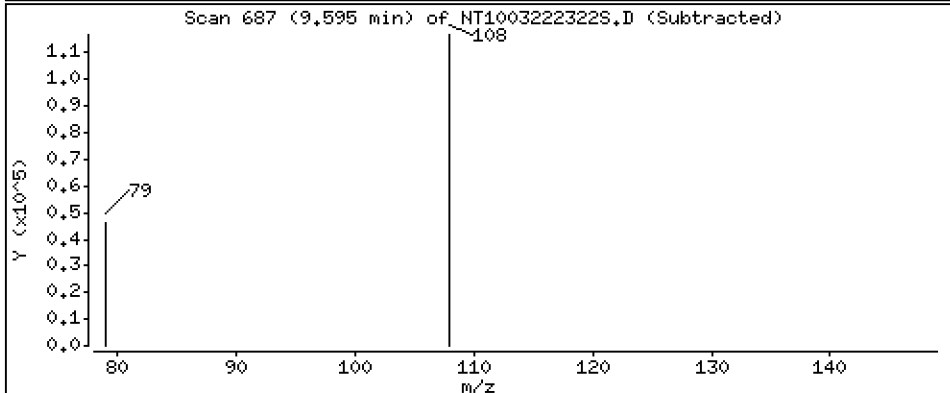
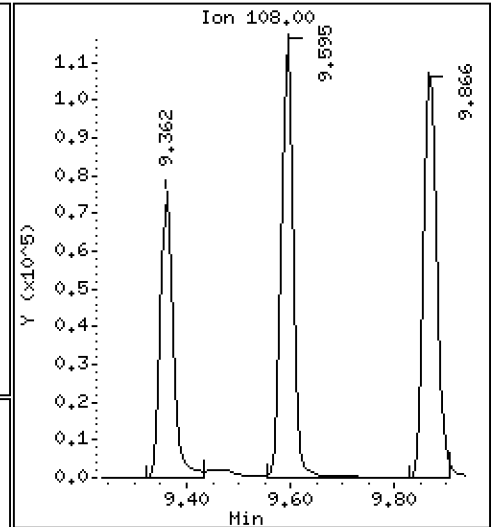
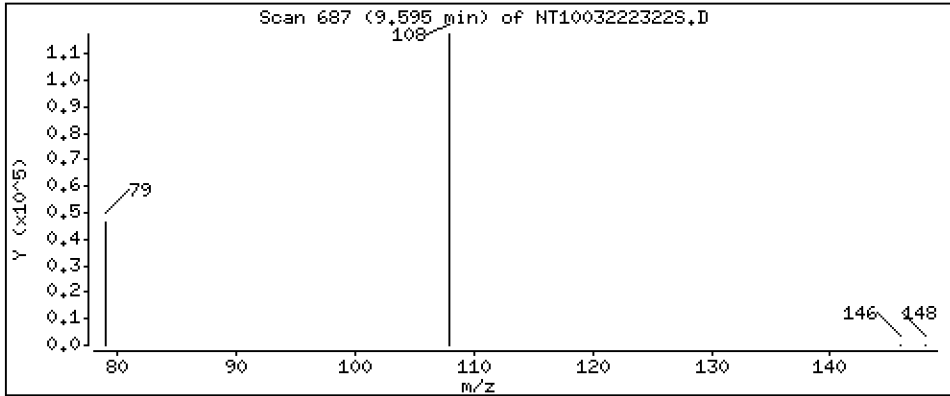
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 3.937 ug/L



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

Volume Injected (uL): 1.0

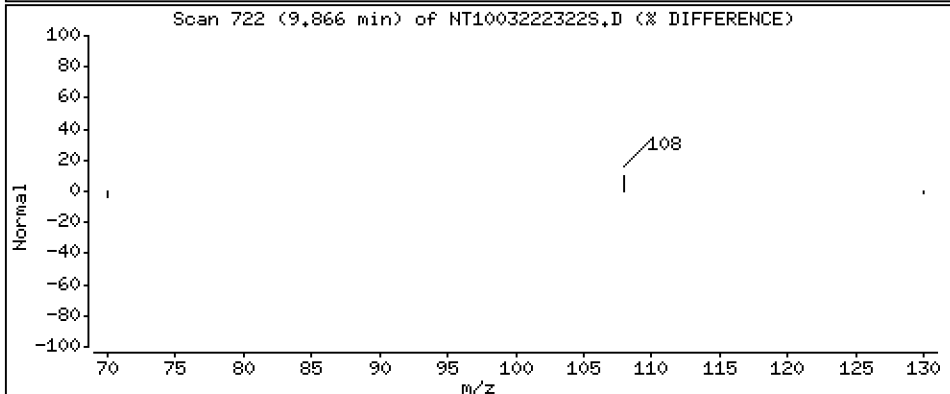
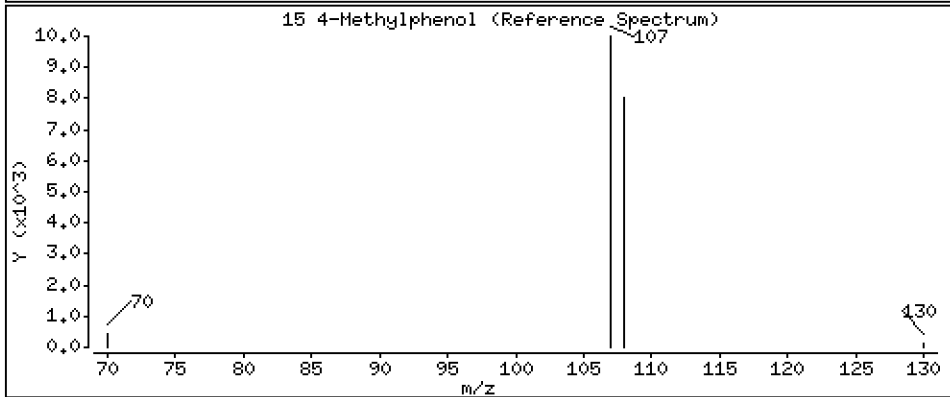
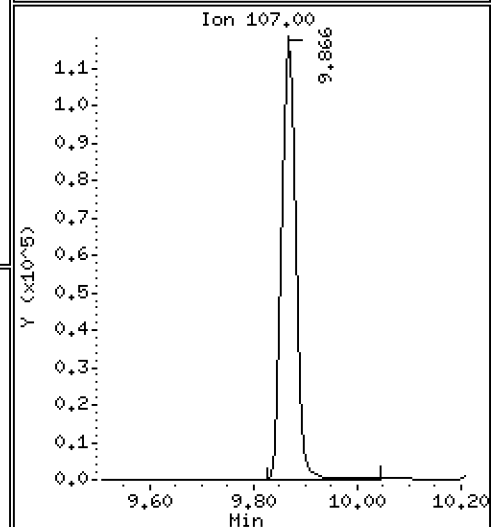
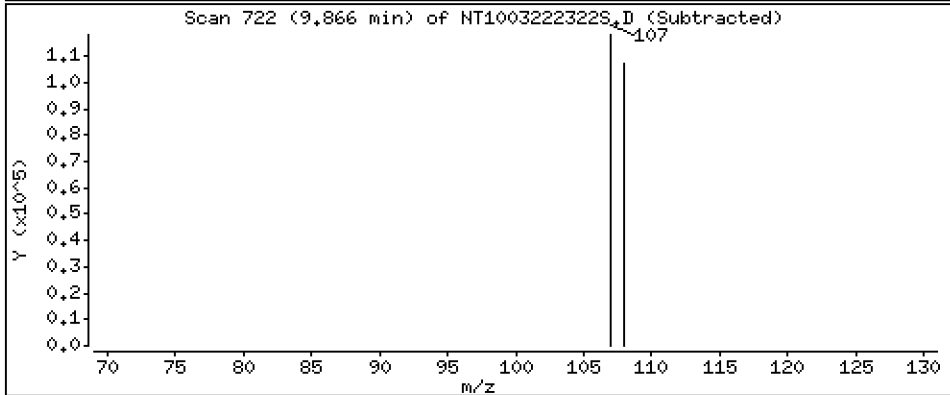
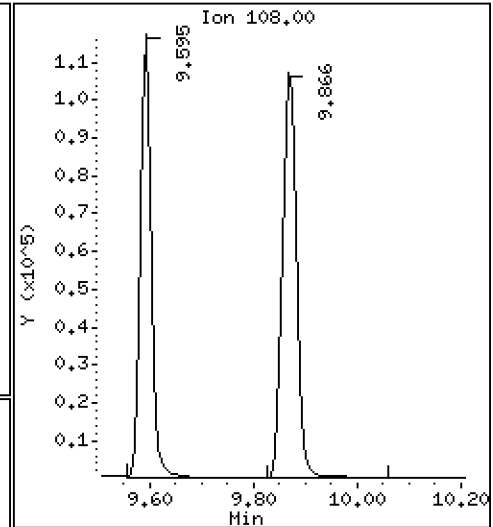
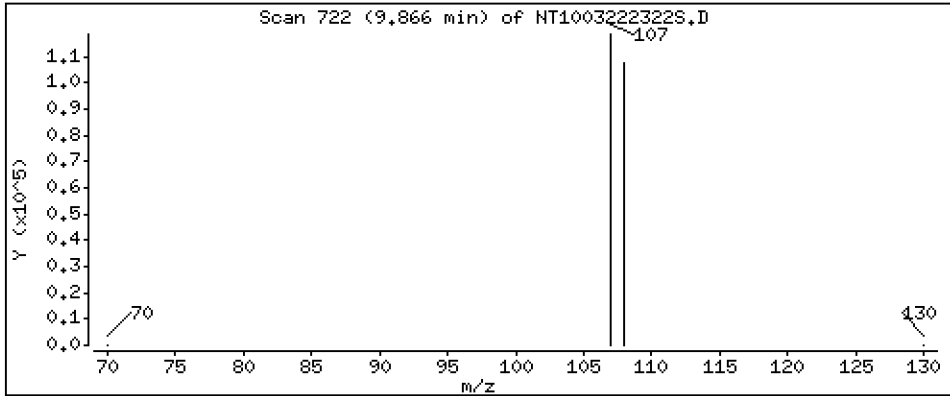
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 4.285 ug/L



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

Volume Injected (uL): 1.0

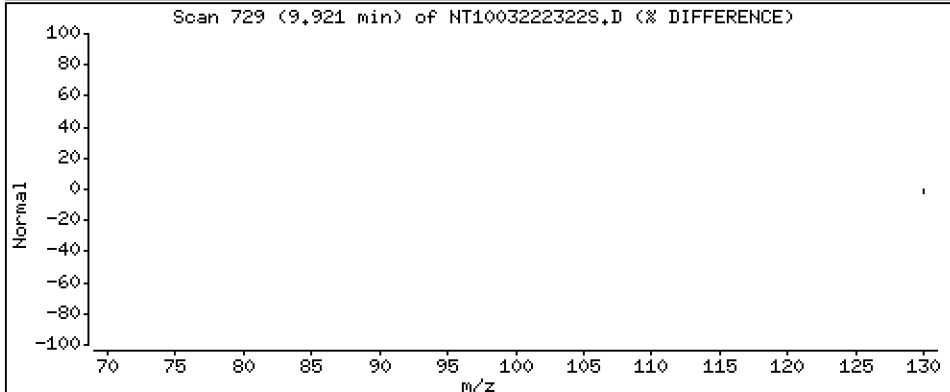
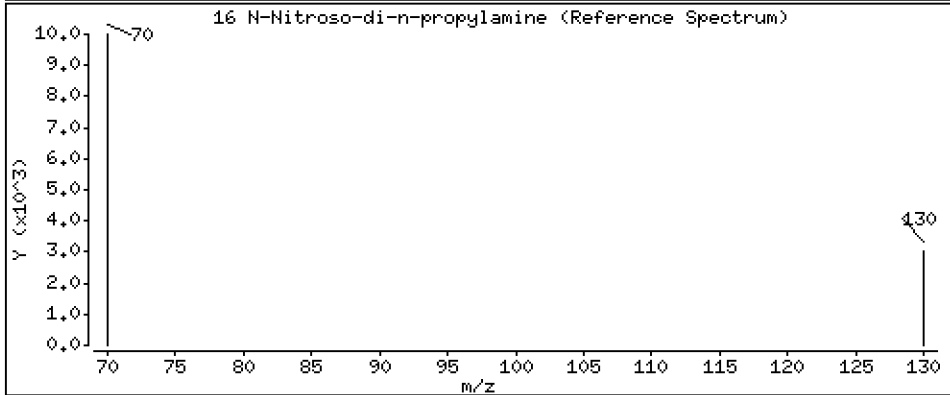
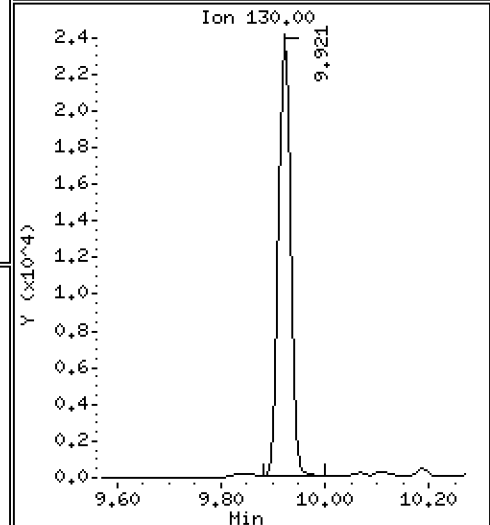
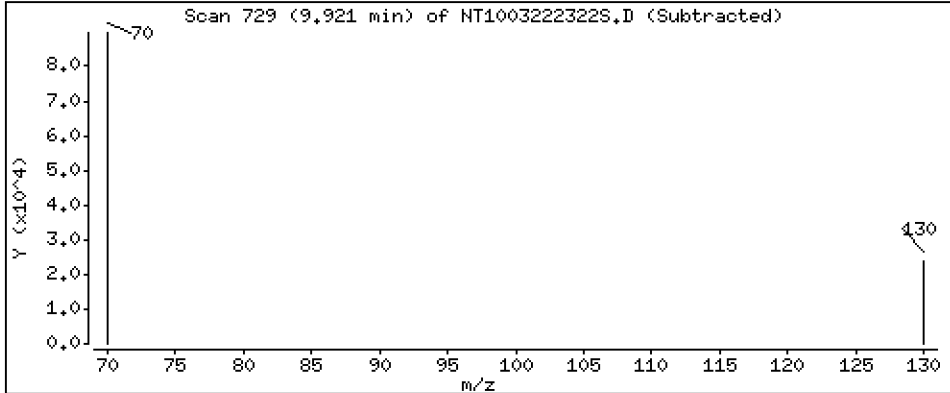
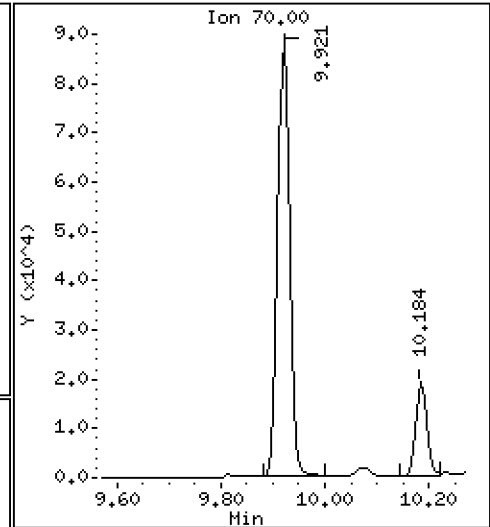
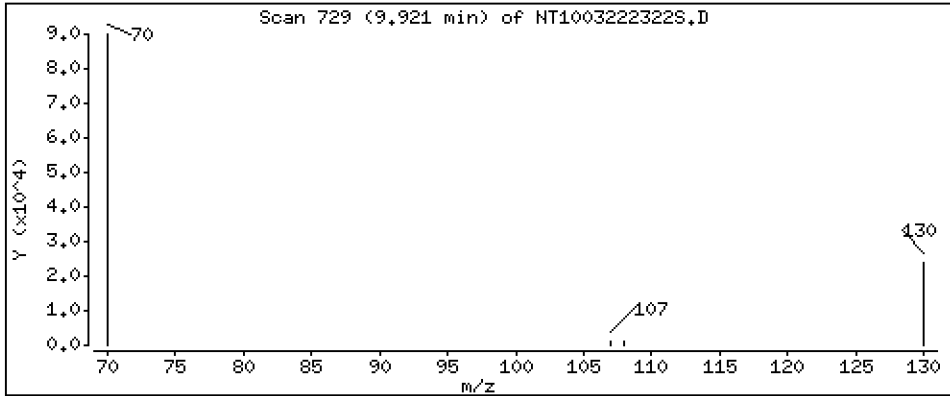
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 4.047 ug/L



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

Volume Injected (uL): 1.0

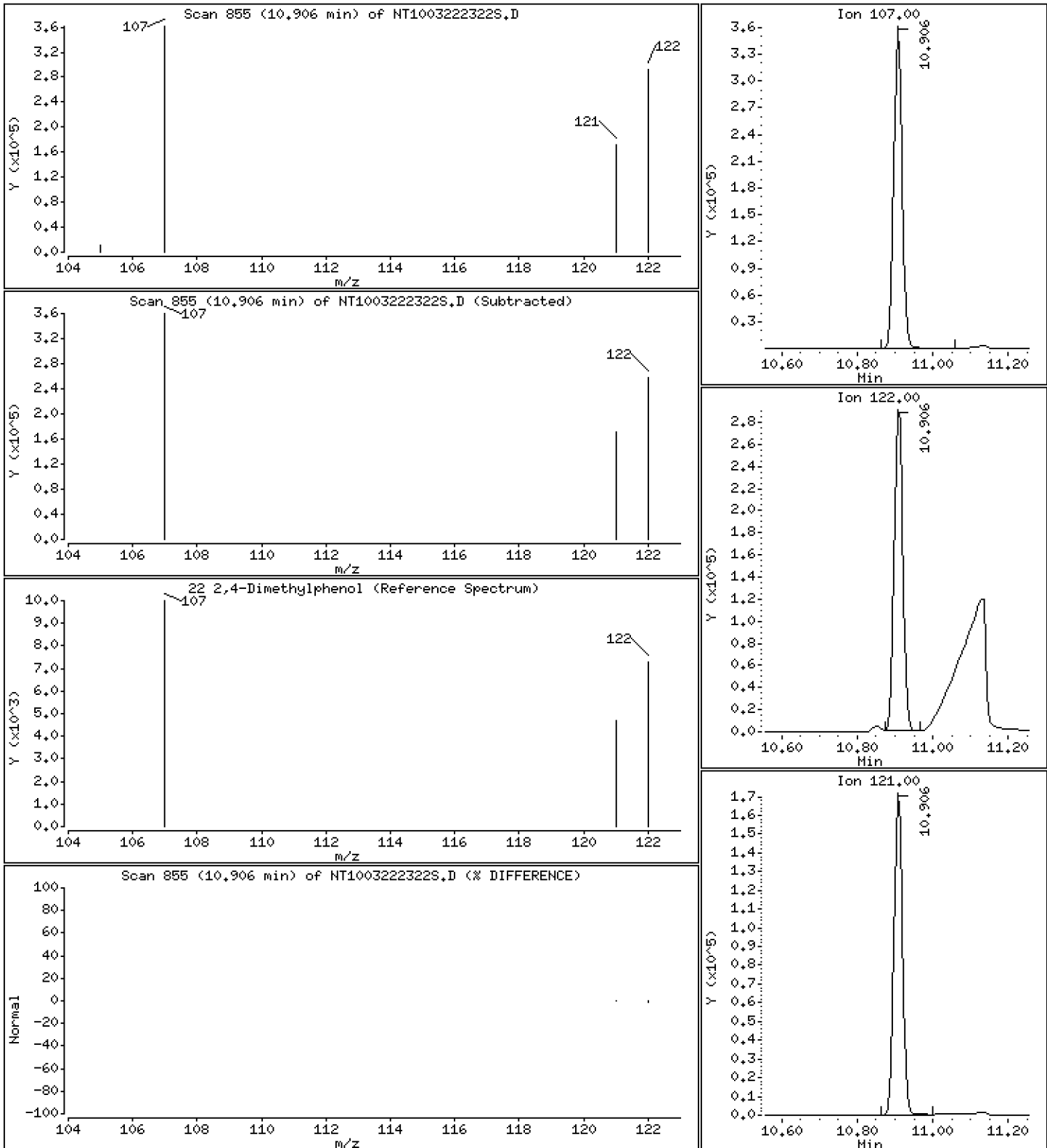
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 11.01 ug/L





Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

Volume Injected (uL): 1.0

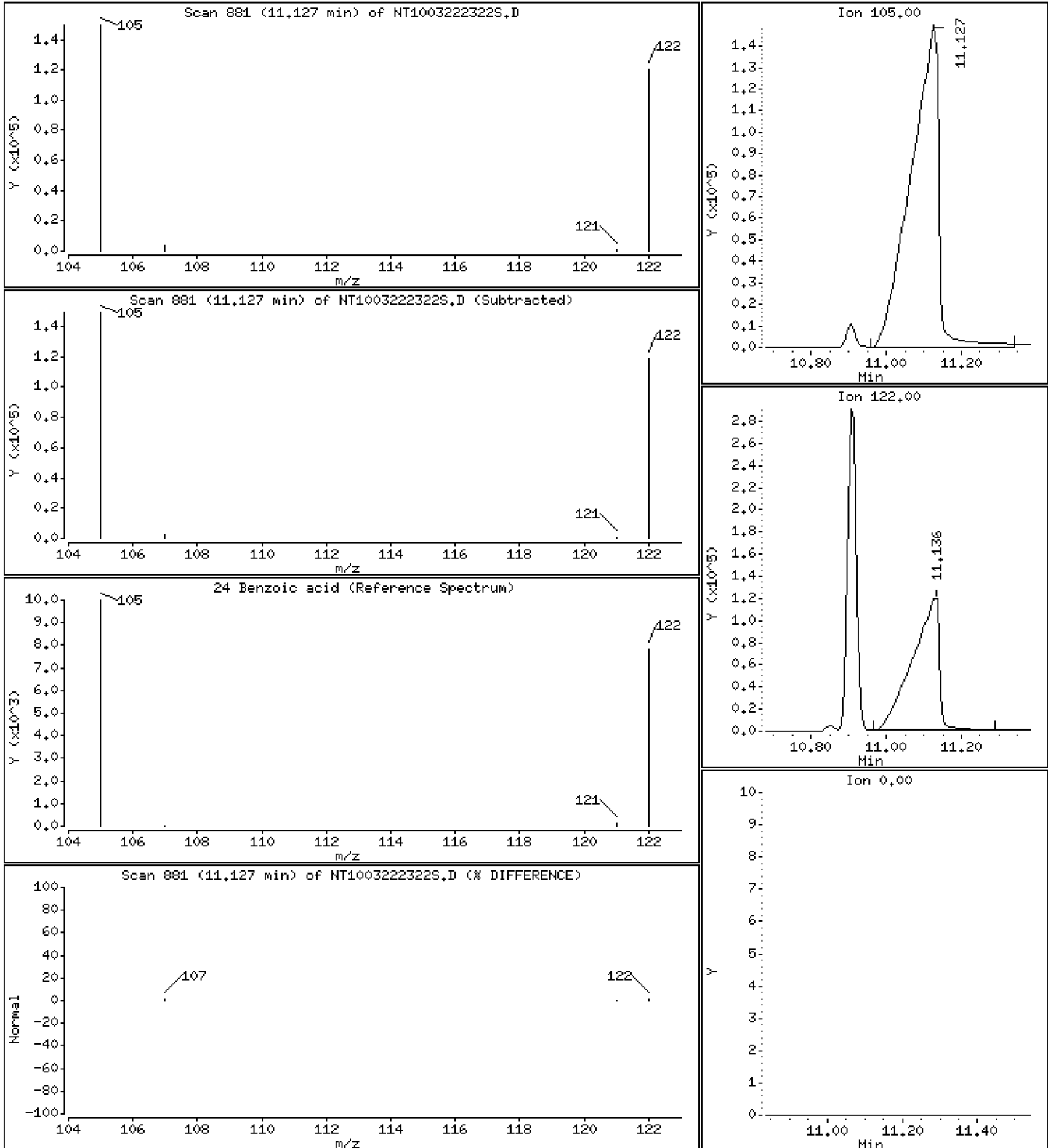
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 25,06 ug/L



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

Volume Injected (uL): 1.0

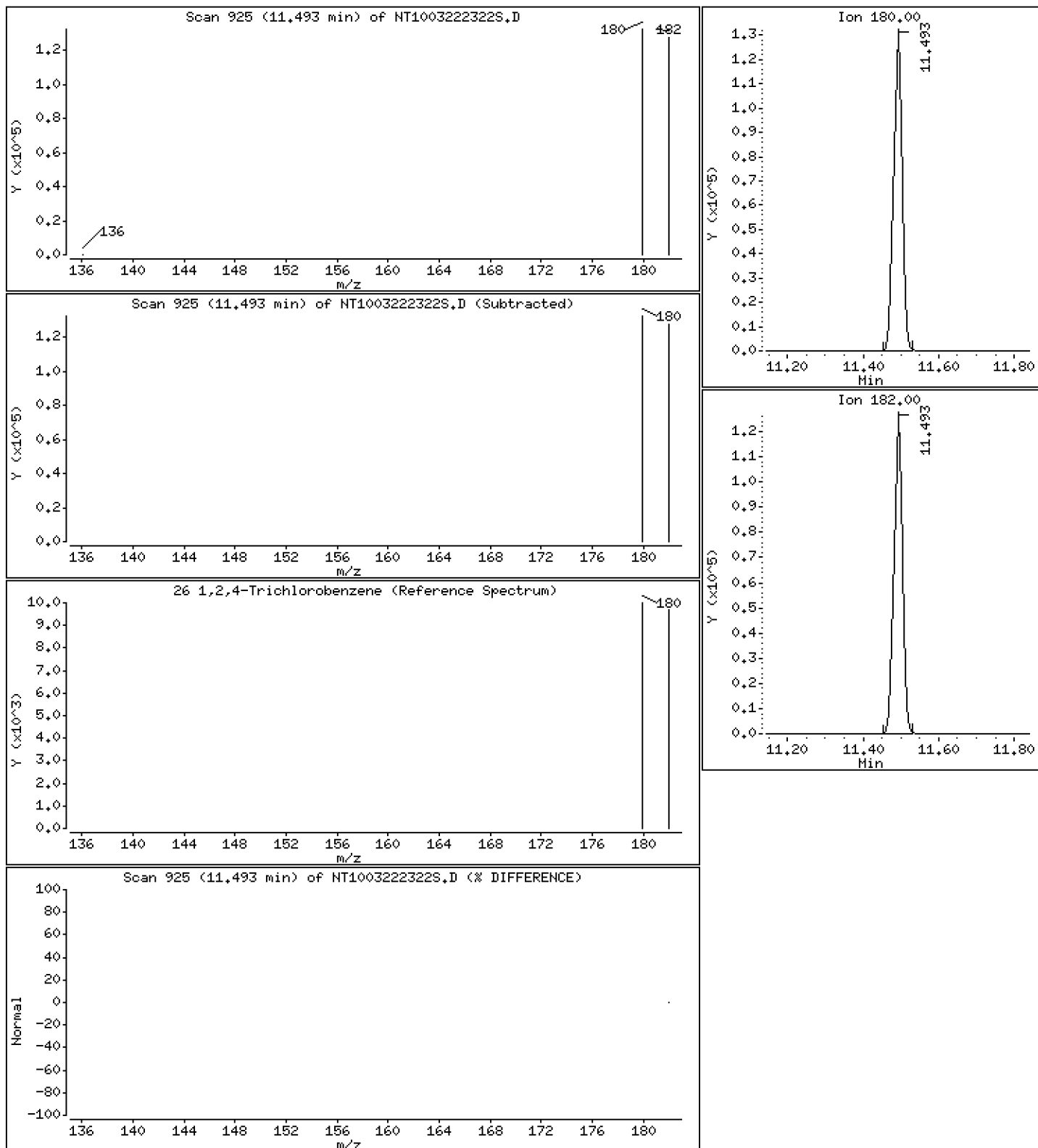
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

26 1,2,4-Trichlorobenzene

Concentration: 4,000 ug/L



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

Volume Injected (uL): 1.0

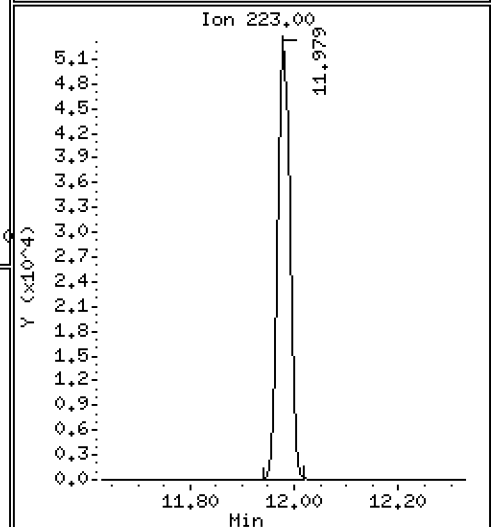
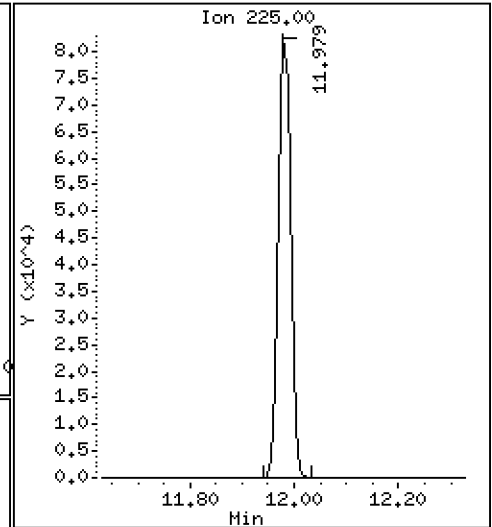
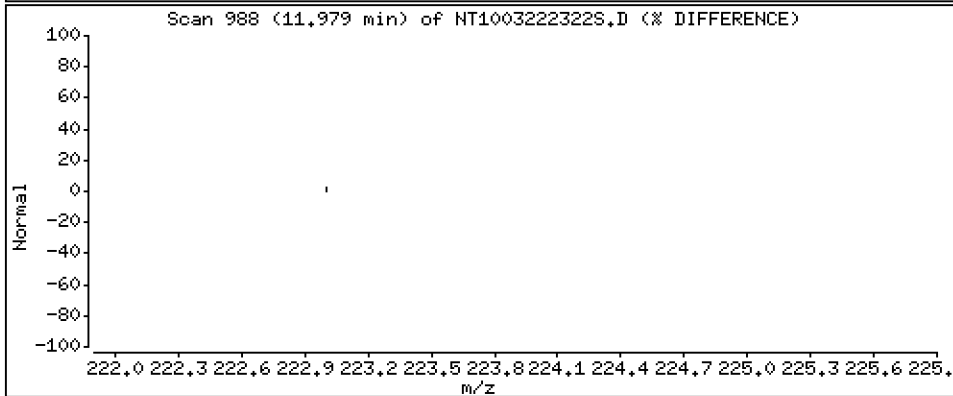
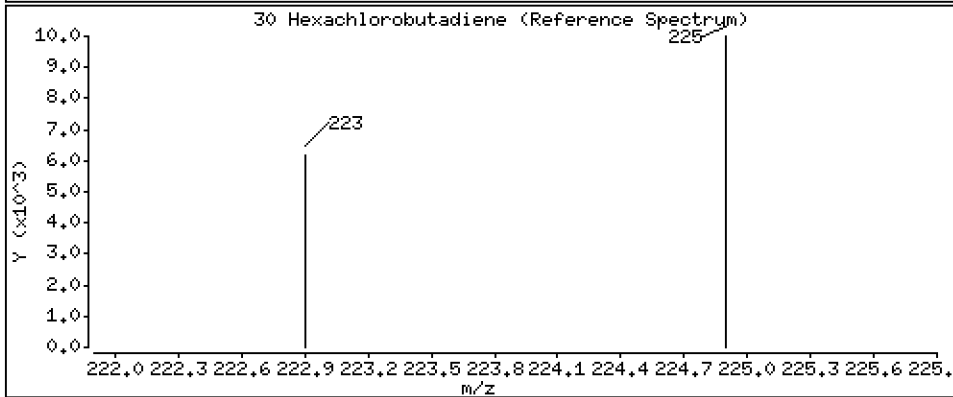
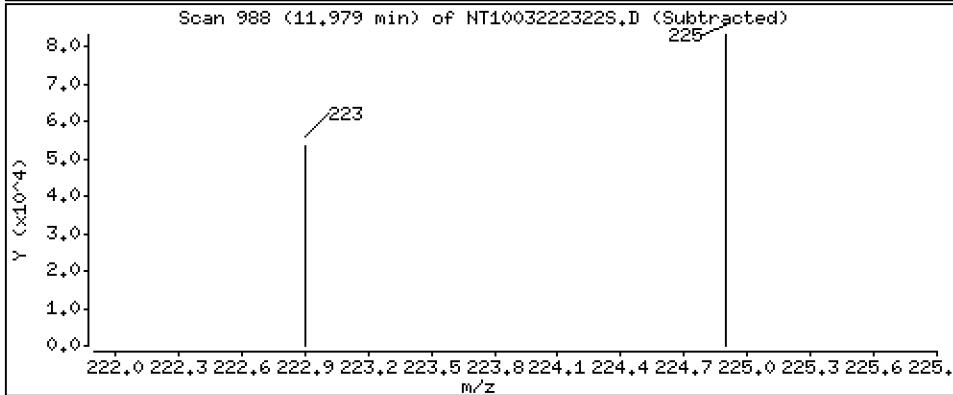
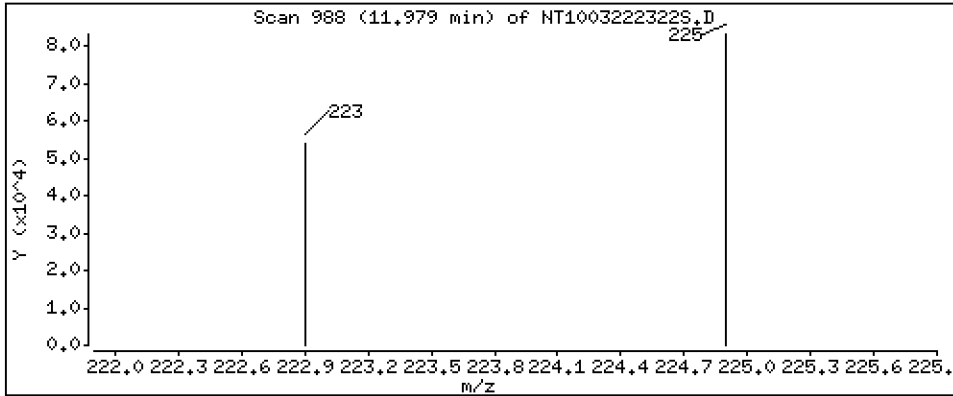
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,262 ug/L



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

Volume Injected (uL): 1.0

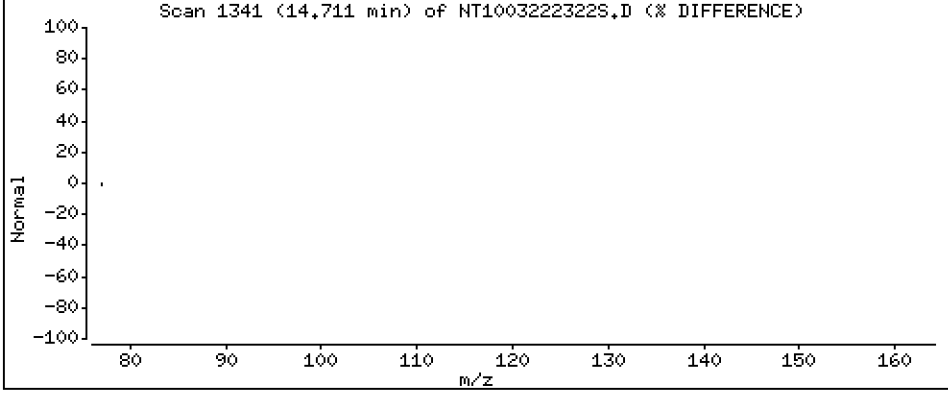
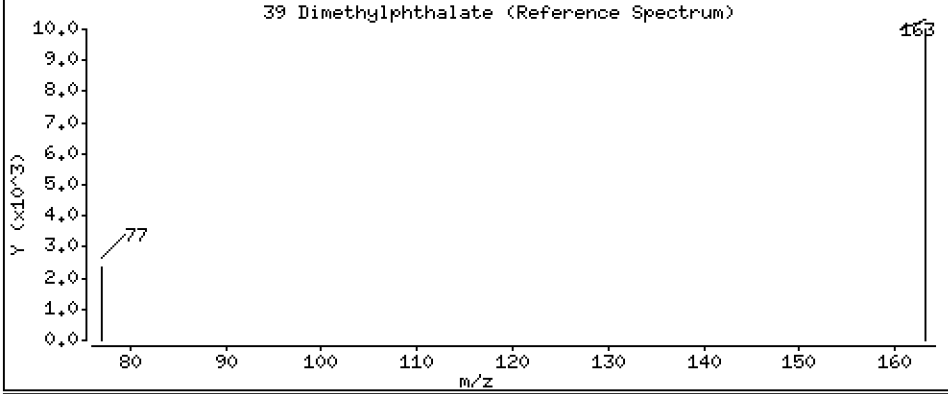
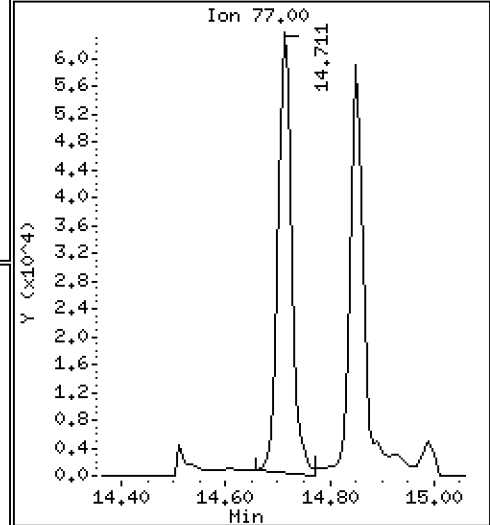
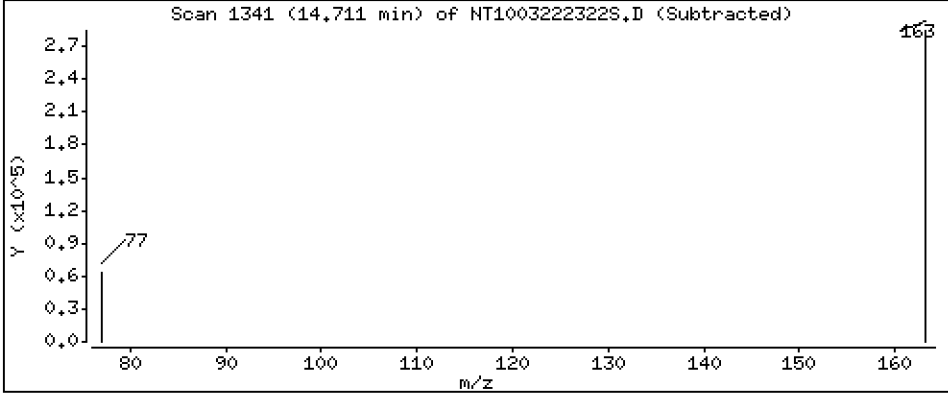
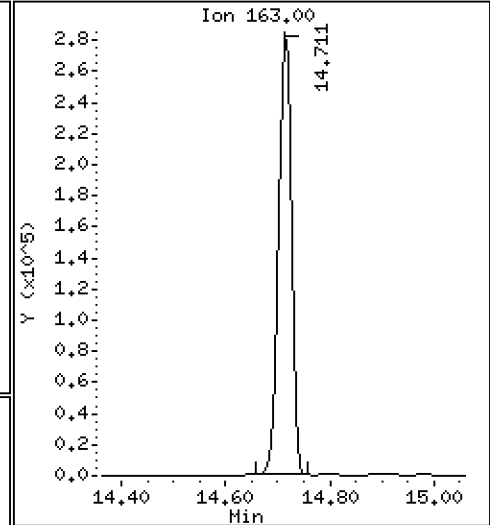
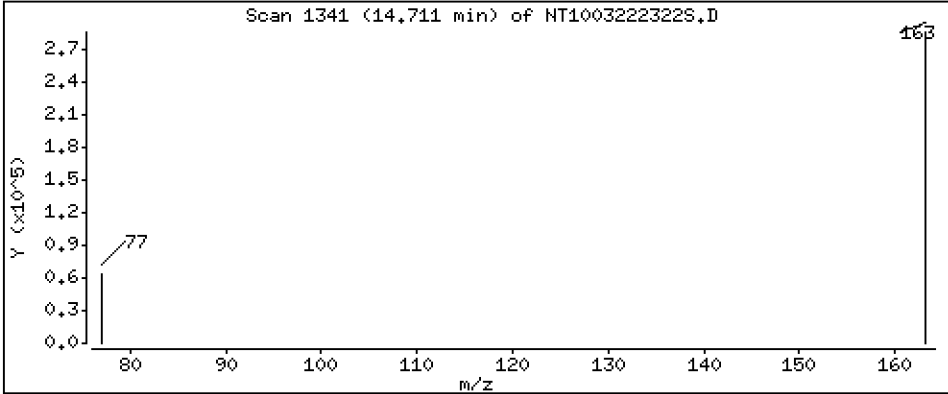
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,008 ug/L



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

Volume Injected (uL): 1.0

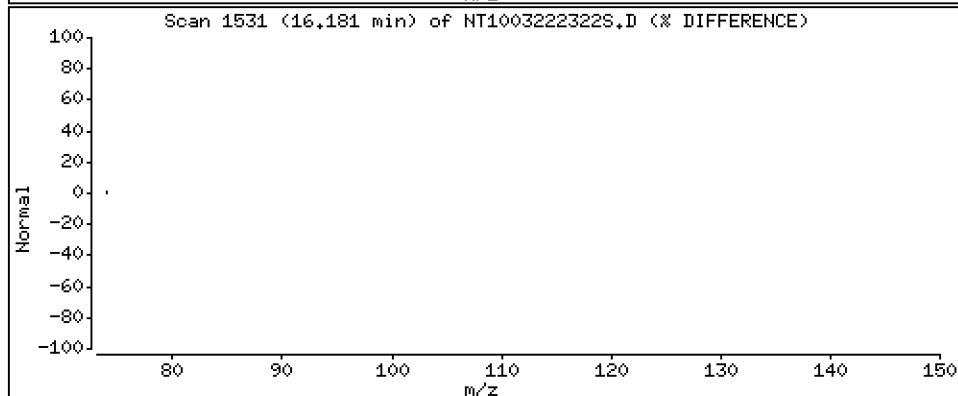
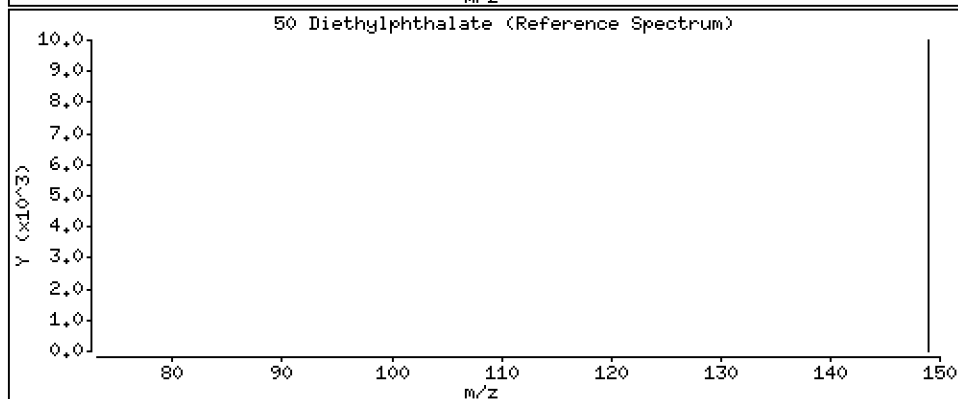
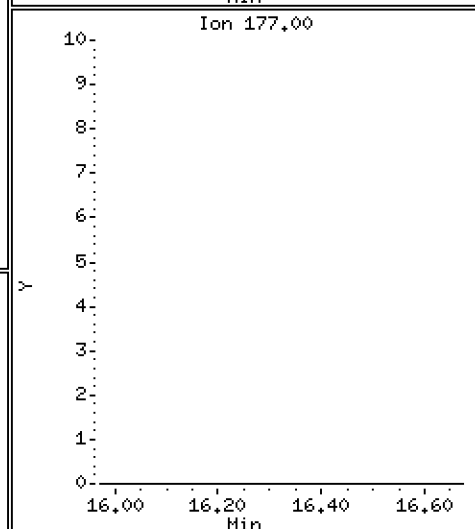
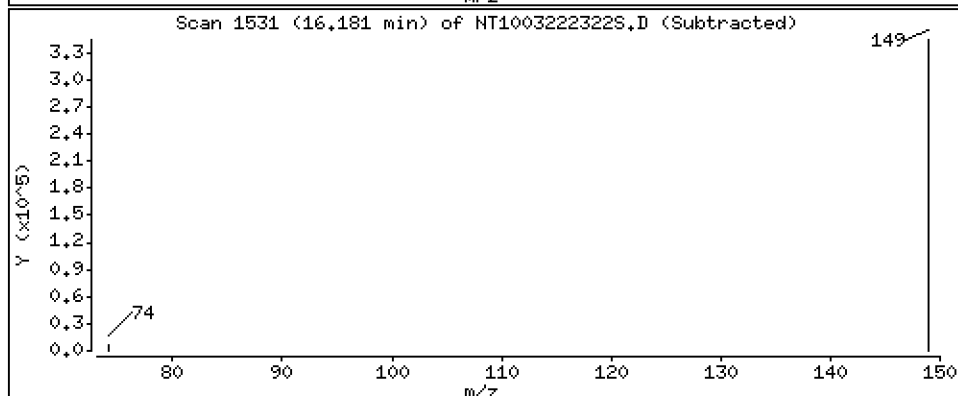
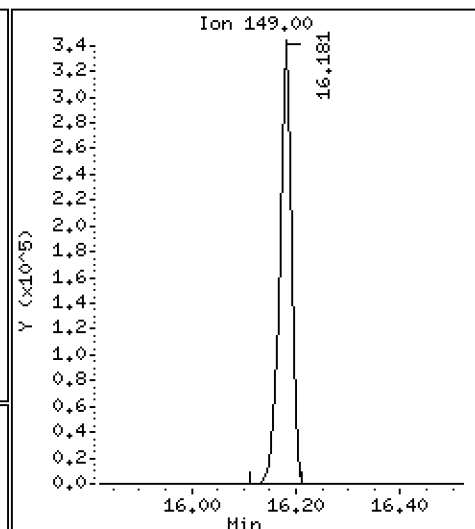
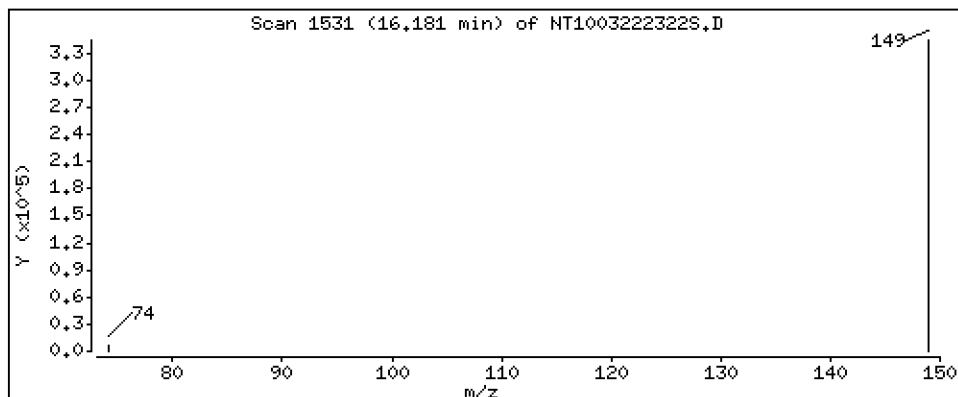
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,655 ug/L



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

Volume Injected (uL): 1.0

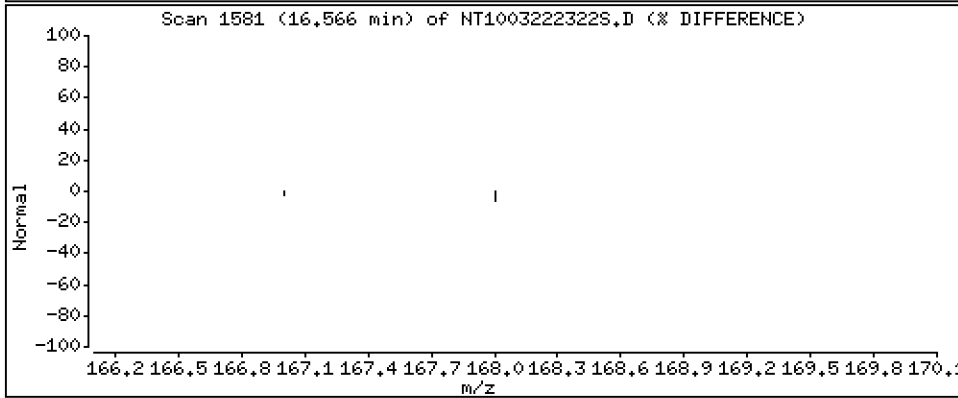
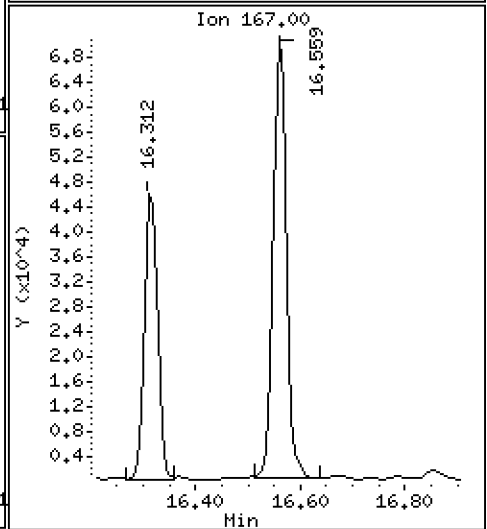
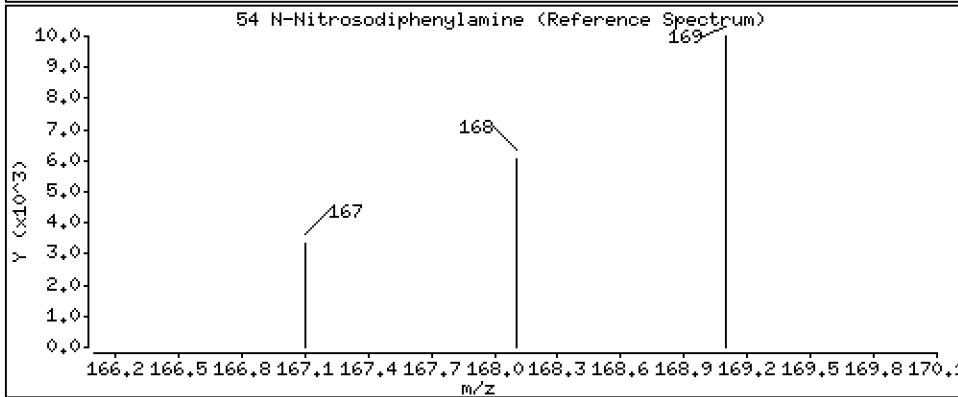
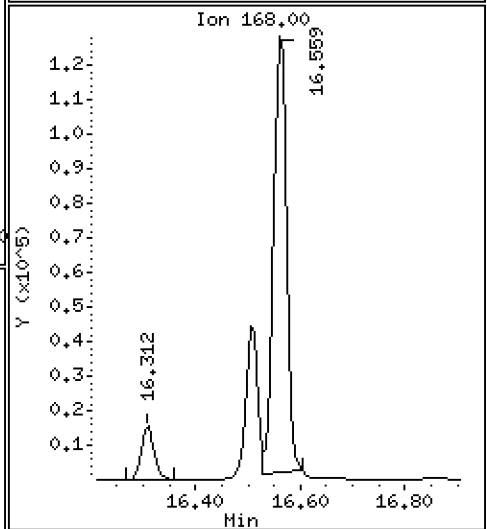
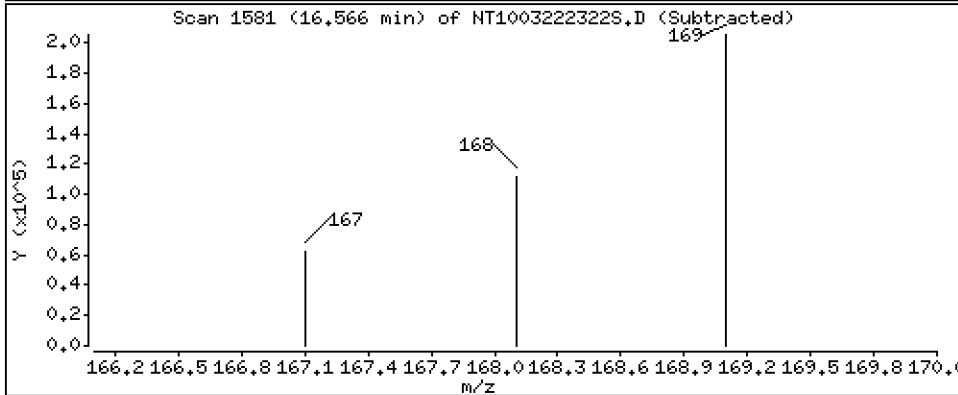
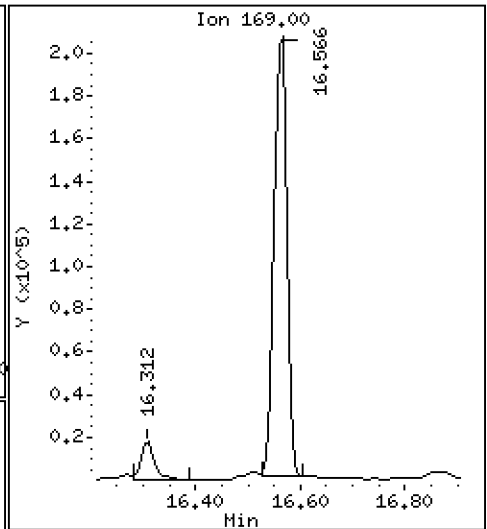
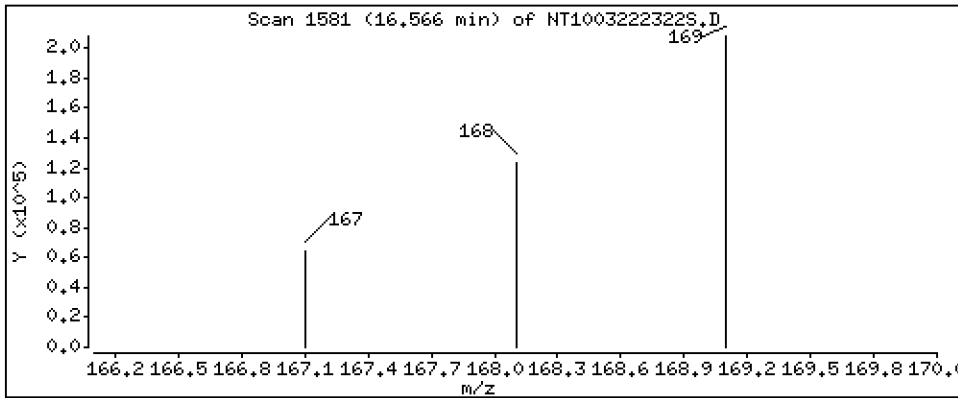
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 4.097 ug/L



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

Volume Injected (uL): 1.0

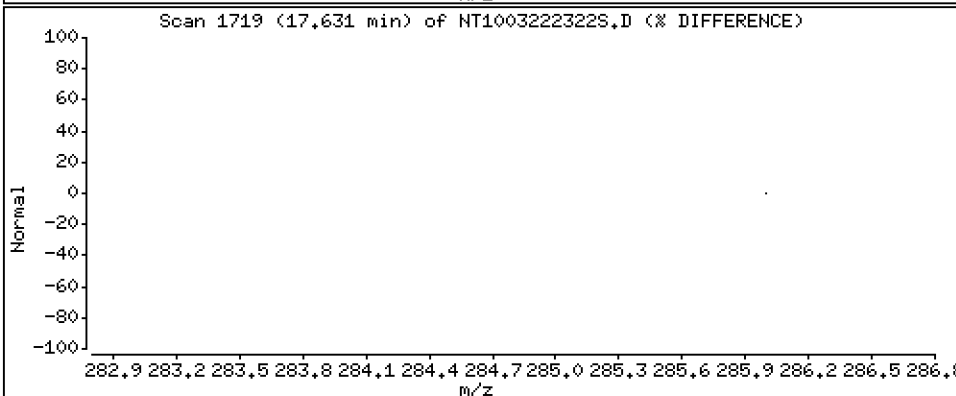
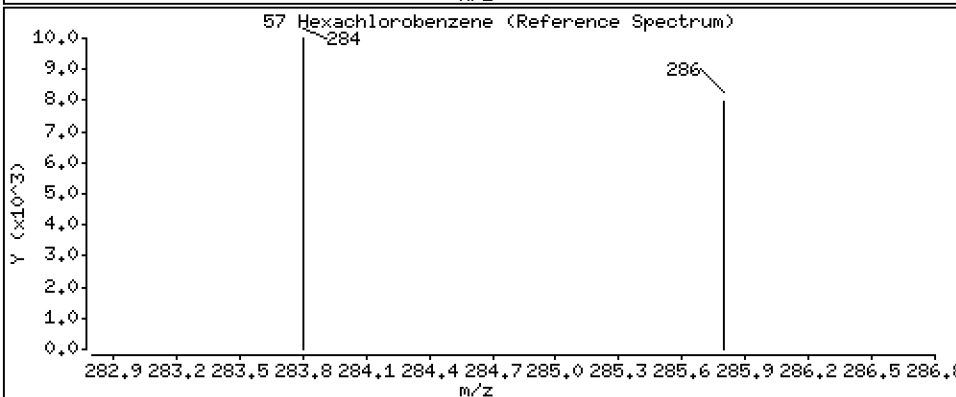
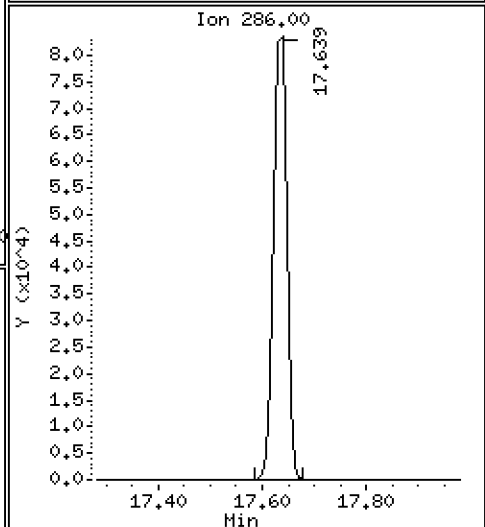
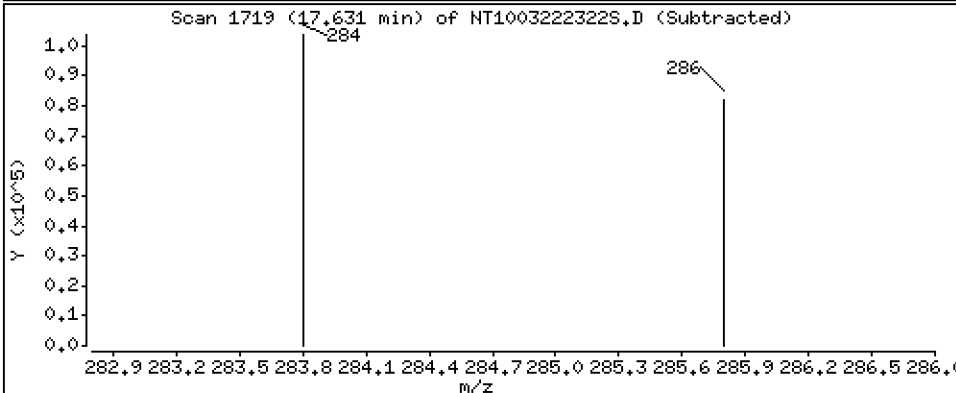
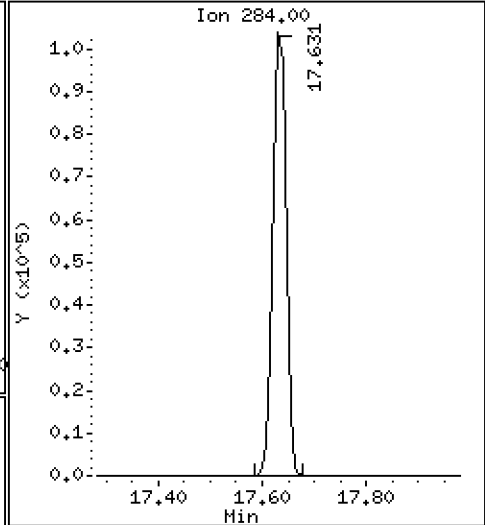
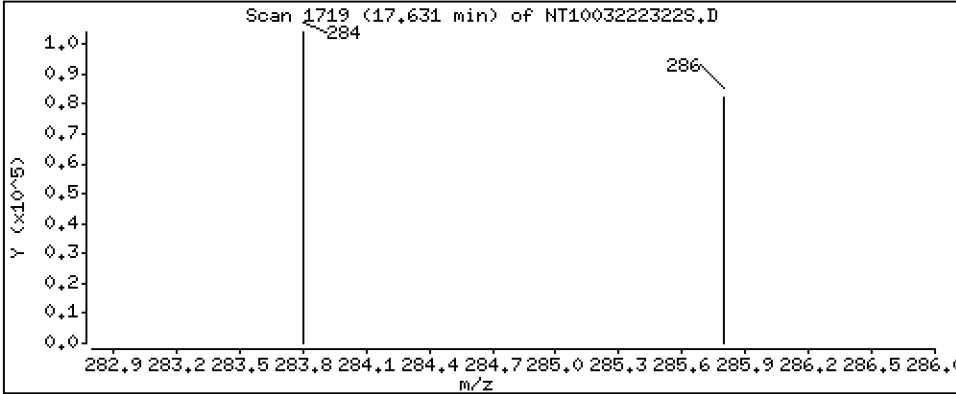
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,718 ug/L



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

Volume Injected (uL): 1.0

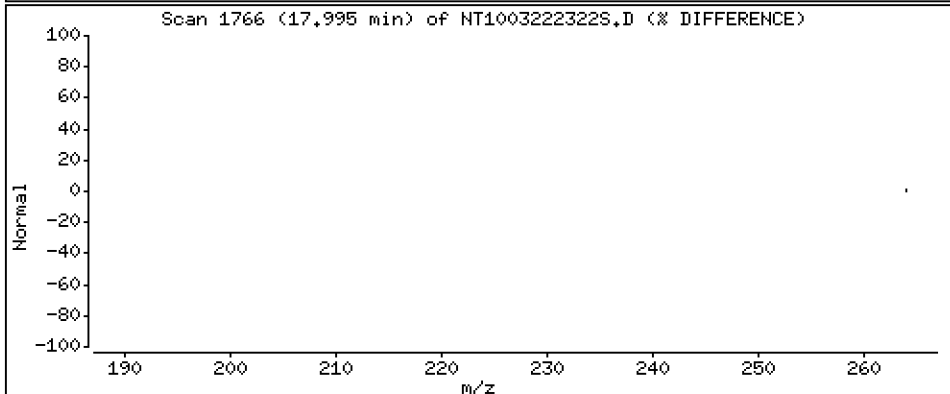
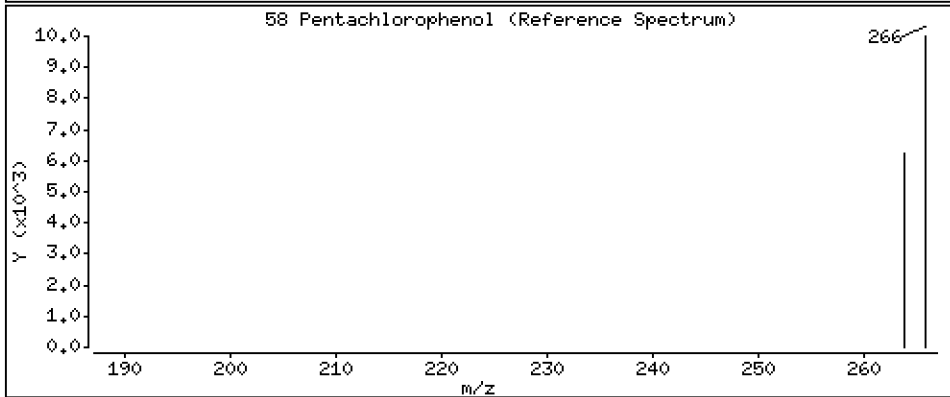
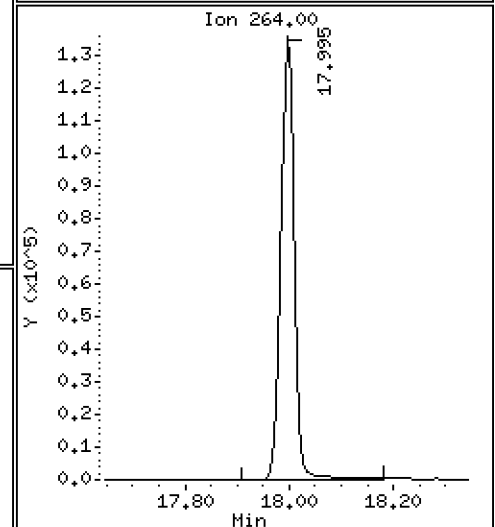
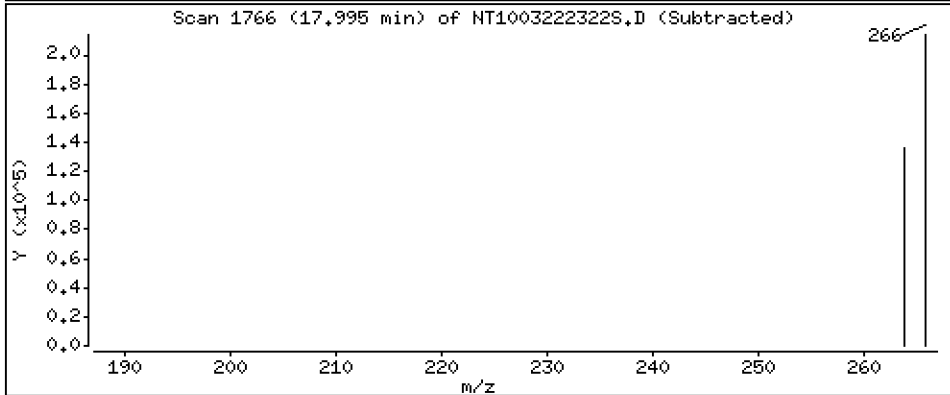
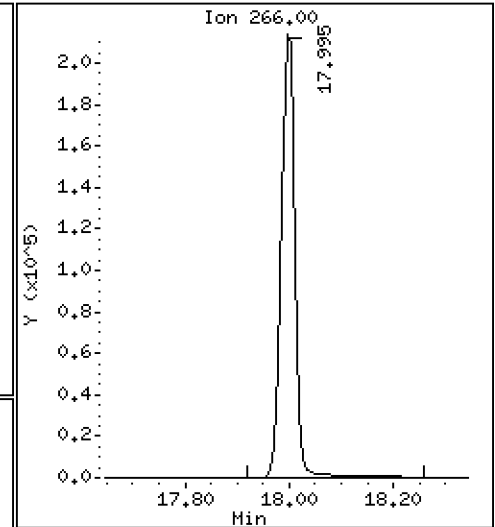
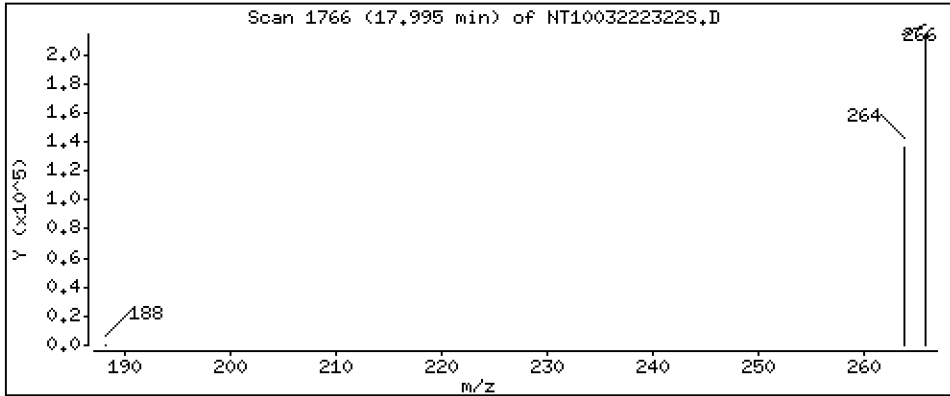
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 16,36 ug/L





Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

Volume Injected (uL): 1.0

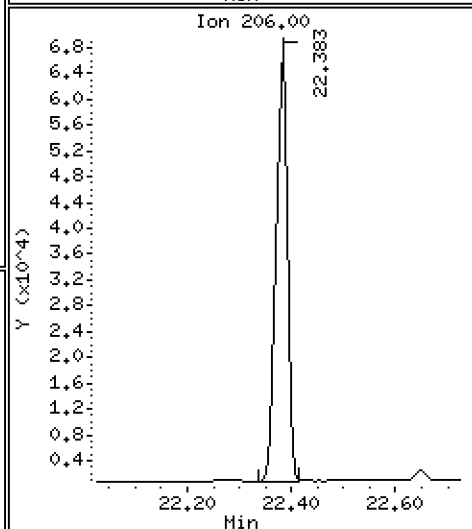
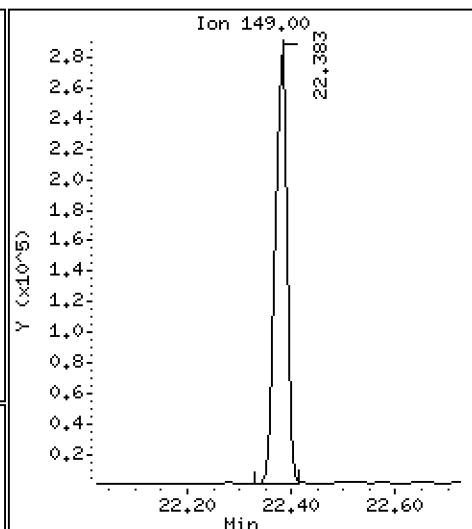
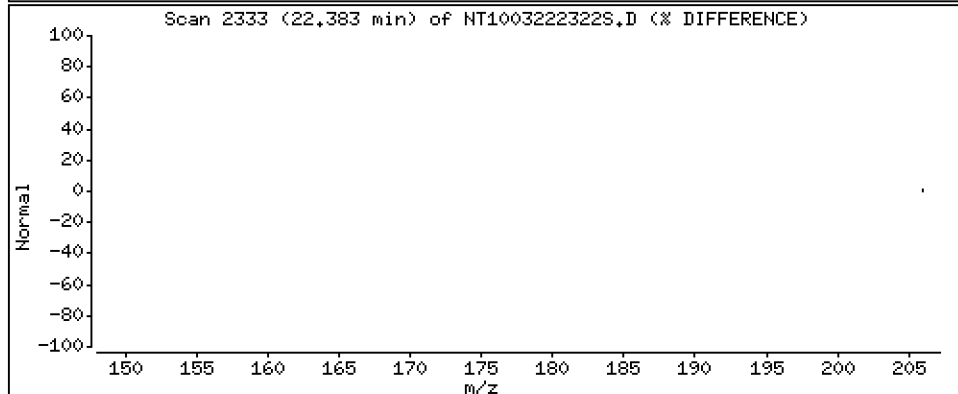
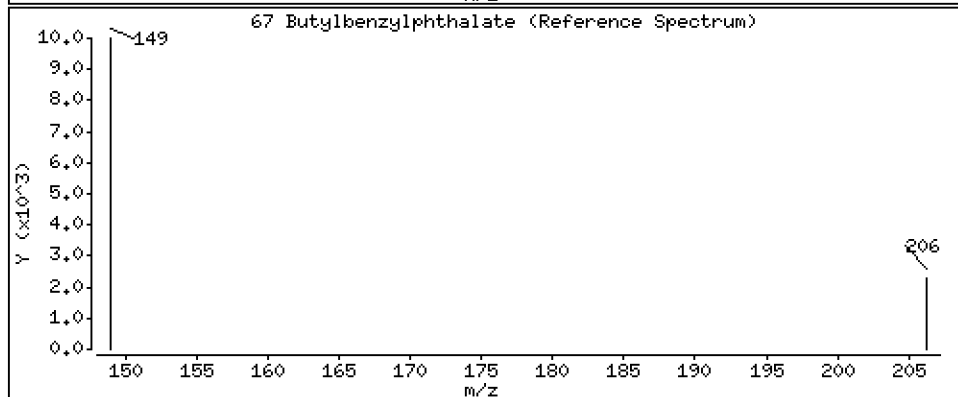
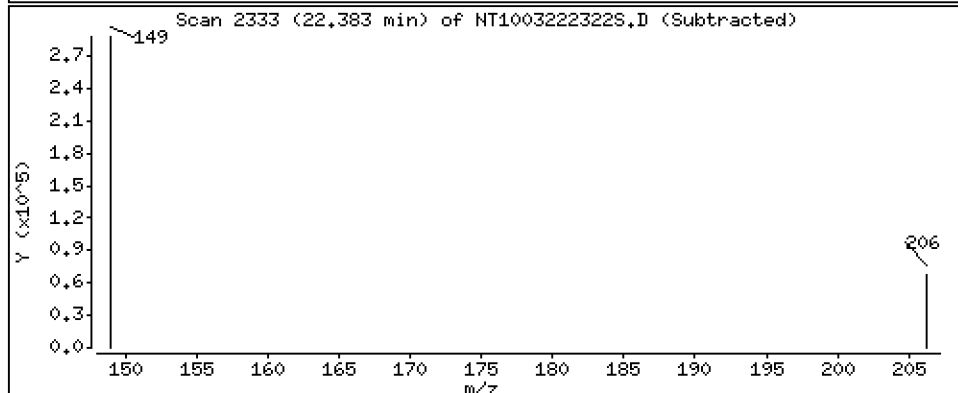
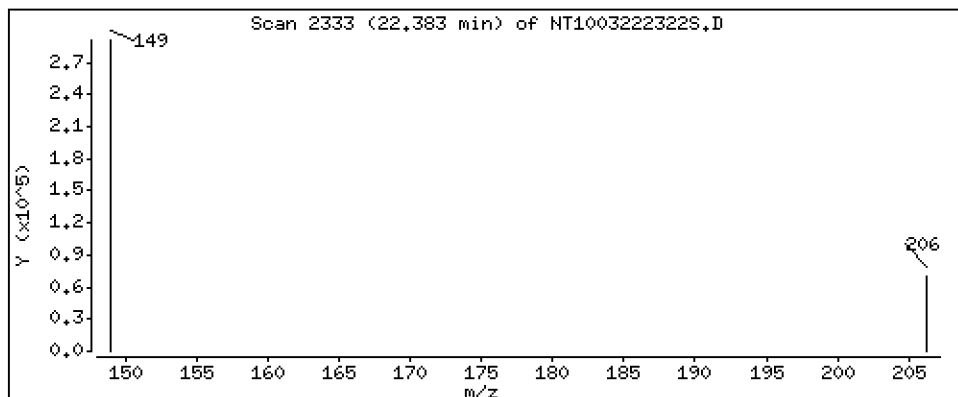
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 5.469 ug/L



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

Volume Injected (uL): 1.0

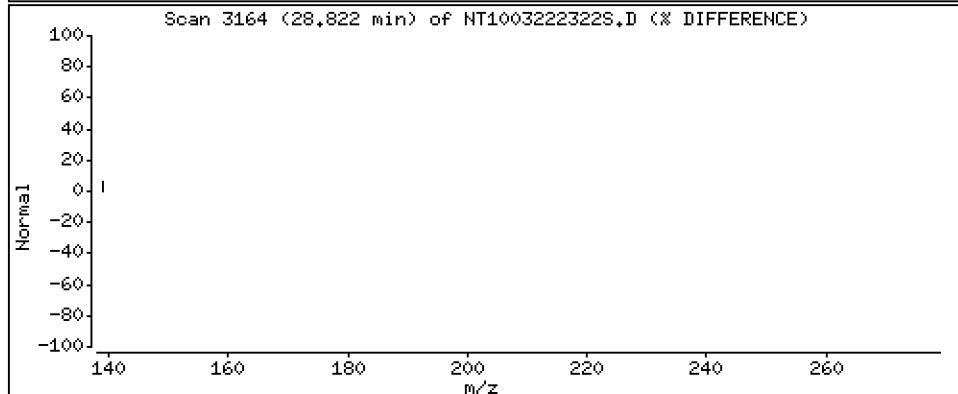
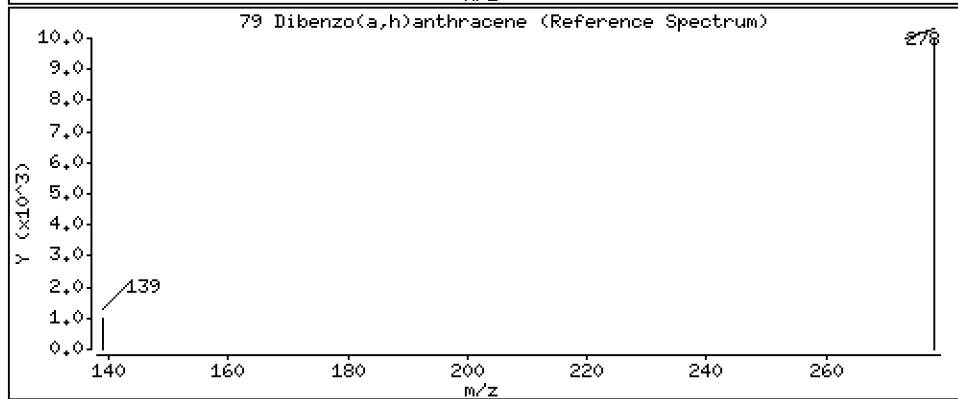
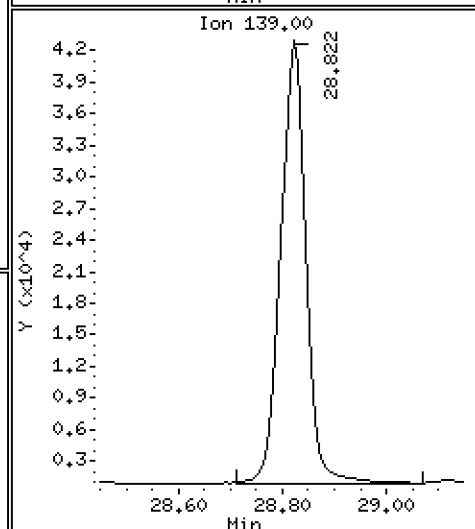
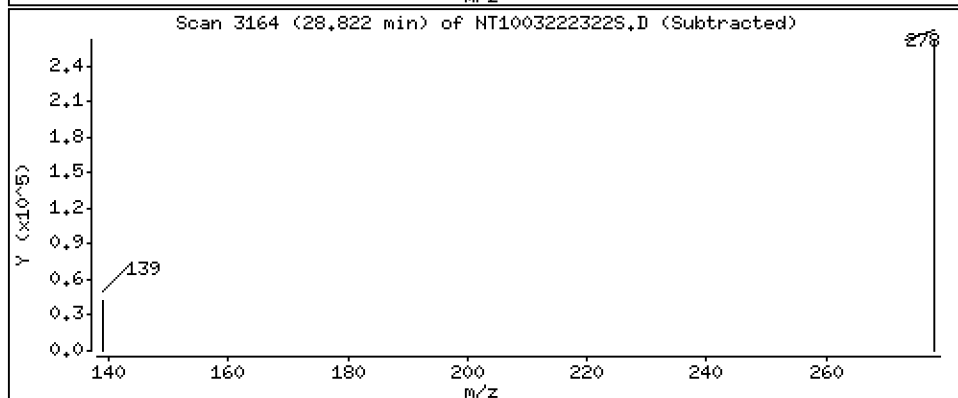
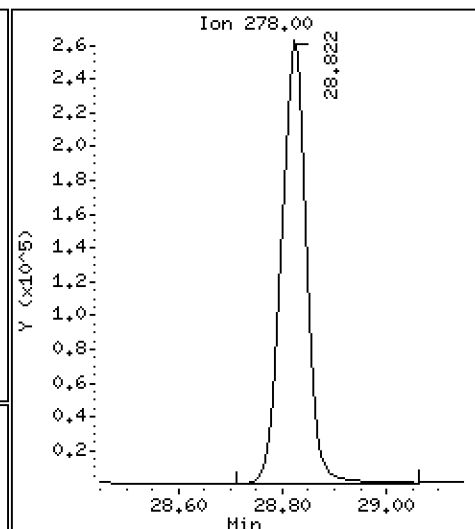
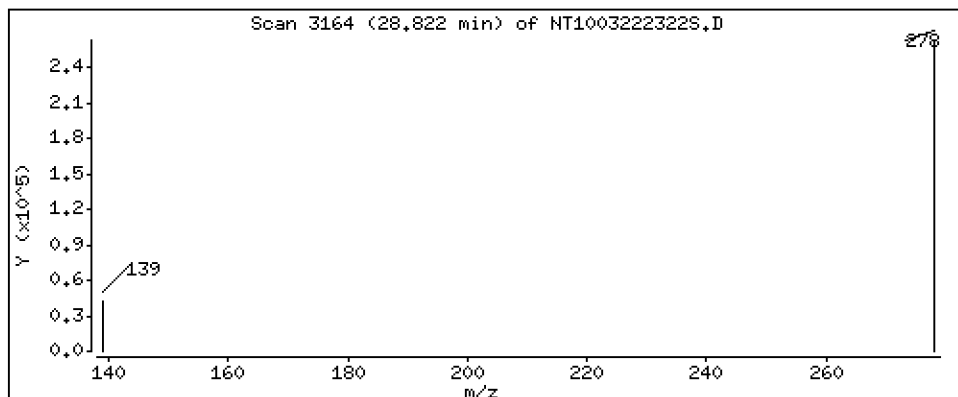
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,058 ug/L



Date : 23-MAR-2023 06:24

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MS1

Volume Injected (uL): 1.0

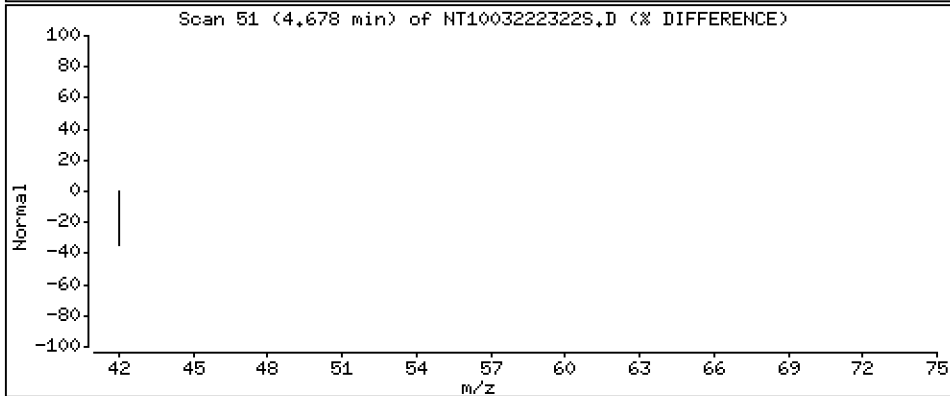
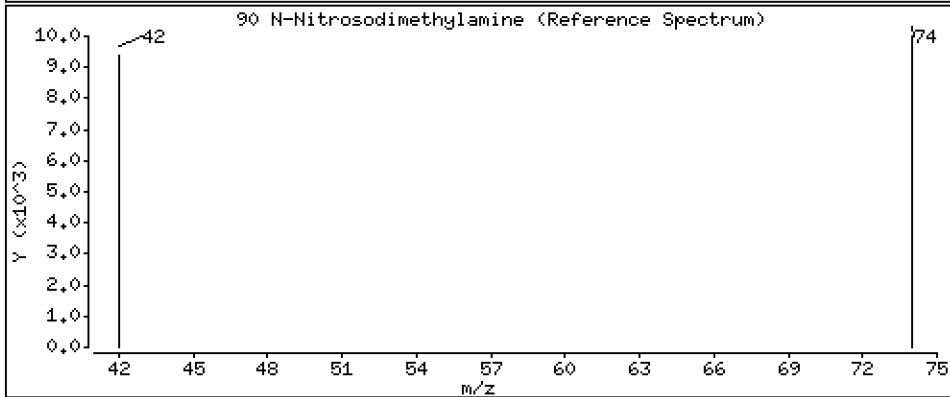
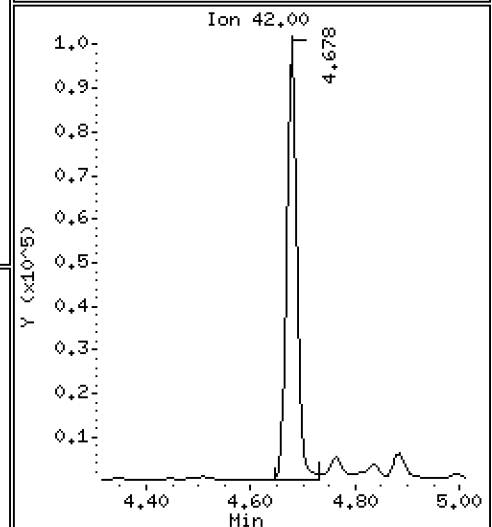
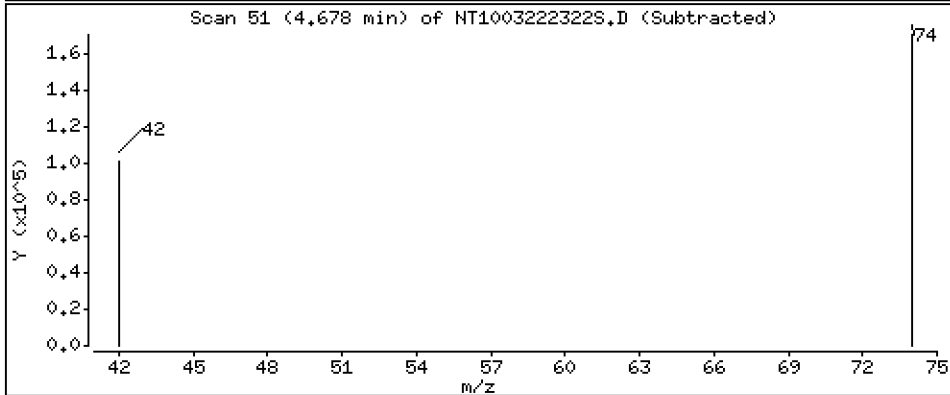
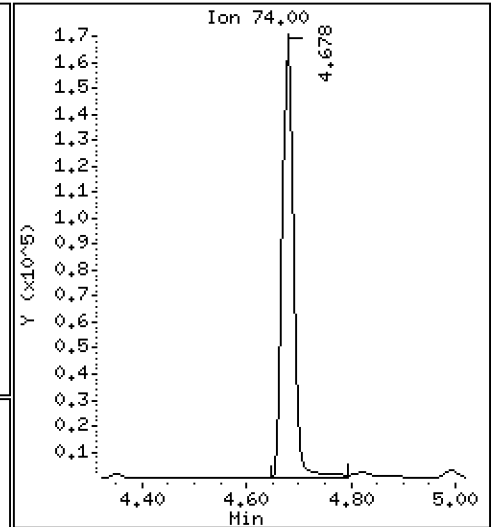
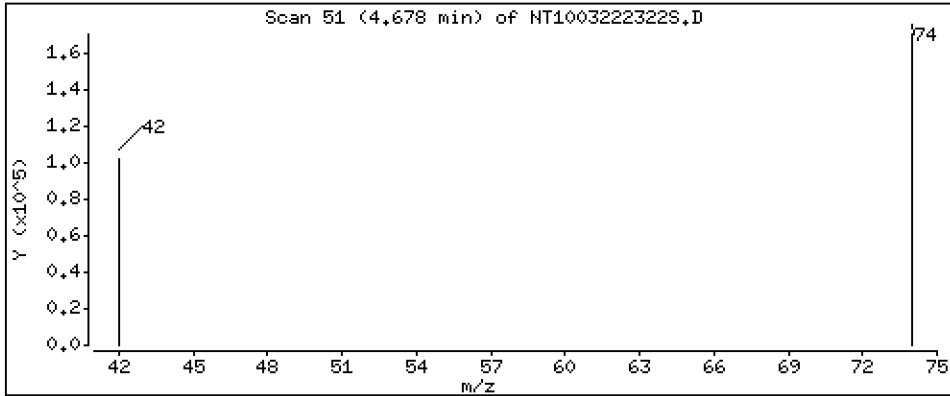
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 7.872 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222322S.D  
 Lab Smp Id: BLC0442-MS2  
 Inj Date : 23-MAR-2023 06:24 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : BLC0442-MS1  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Meth Date : 25-Mar-2023 16:11 yev Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 17  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: ORGDATA102

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT     | EXP RT         | REL RT | RESPONSE | CONCENTRATIONS    |              |
|-------------------------------|-------|-----|--------|----------------|--------|----------|-------------------|--------------|
|                               |       |     |        |                |        |          | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| \$ 1 2-Fluorophenol           | 112   |     | 6.864  | 6.856 (0.755)  |        | 283731   | 5.95188           | 5.952 (R)    |
| 3 Phenol                      | 94    |     | 8.479  | 8.471 (0.933)  |        | 269059   | 4.11397           | 4.114        |
| 7 1,3-Dichlorobenzene         | 146   |     | 9.020  | 9.020 (0.992)  |        | 231111   | 3.77643           | 3.776        |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.090  | 9.090 (1.000)  |        | 157202   | 4.00000           |              |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.113  | 9.121 (1.003)  |        | 231509   | 3.91880           | 3.919        |
| 11 Benzyl alcohol             | 79    |     | 9.361  | 9.361 (1.030)  |        | 155613   | 4.10420           | 4.104        |
| 12 1,2-Dichlorobenzene        | 146   |     | 9.470  | 9.470 (1.042)  |        | 227286   | 3.91208           | 3.912        |
| 13 2-Methylphenol             | 108   |     | 9.594  | 9.586 (1.056)  |        | 178409   | 3.93688           | 3.937        |
| 15 4-Methylphenol             | 108   |     | 9.866  | 9.858 (1.085)  |        | 201780   | 4.28499           | 4.285        |
| 16 N-Nitroso-di-n-propylamine | 70    |     | 9.920  | 9.920 (1.091)  |        | 134768   | 4.04681           | 4.047        |
| 22 2,4-Dimethylphenol         | 107   |     | 10.906 | 10.906 (0.942) |        | 546028   | 11.0124           | 11.01        |
| 24 Benzoic acid               | 105   |     | 11.127 | 11.033 (0.961) |        | 762688   | 25.0643           | 25.06        |
| 26 1,2,4-Trichlorobenzene     | 180   |     | 11.492 | 11.492 (0.993) |        | 199507   | 3.99979           | 4.000        |
| * 27 Naphthalene-d8           | 136   |     | 11.577 | 11.577 (1.000) |        | 573631   | 4.00000           |              |
| 30 Hexachlorobutadiene        | 225   |     | 11.979 | 11.979 (1.035) |        | 129236   | 4.26163           | 4.262        |
| 39 Dimethylphthalate          | 163   |     | 14.711 | 14.711 (0.967) |        | 466872   | 5.00821           | 5.008        |
| * 42 Acenaphthene-d10         | 162   |     | 15.206 | 15.206 (1.000) |        | 295406   | 4.00000           |              |
| 50 Diethylphthalate           | 149   |     | 16.180 | 16.172 (1.064) |        | 546154   | 5.65534           | 5.655        |
| 54 N-Nitrosodiphenylamine     | 169   |     | 16.566 | 16.558 (0.907) |        | 338382   | 4.09651           | 4.097        |
| 57 Hexachlorobenzene          | 284   |     | 17.631 | 17.631 (0.966) |        | 174446   | 4.71760           | 4.718        |

| Compounds                 | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                           |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>( ug/L) |
| 58 Pentachlorophenol      | 266       | 17.995 | 17.995 | (0.986) | 372574   | 16.3602              | 16.36            |
| * 59 Phenanthrene-d10     | 188       | 18.258 | 18.258 | (1.000) | 615665   | 4.00000              |                  |
| \$ 66 Terphenyl-d14       | 244       | 21.438 | 21.438 | (0.918) | 497312   | 5.47014              | 5.470 (R)        |
| 67 Butylbenzylphthalate   | 149       | 22.382 | 22.375 | (0.958) | 428145   | 5.46934              | 5.469            |
| * 69 Chrysene-d12         | 240       | 23.358 | 23.350 | (1.000) | 557974   | 4.00000              |                  |
| * 77 Perylene-d12         | 264       | 26.052 | 26.037 | (1.000) | 678005   | 4.00000              |                  |
| 79 Dibenzo(a,h)anthracene | 278       | 28.821 | 28.798 | (1.106) | 882313   | 4.05827              | 4.058            |
| 90 N-Nitrosodimethylamine | 74        | 4.678  | 4.670  | (0.515) | 238010   | 7.87212              | 7.872            |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT1003222322S.D  
 Lab Smp Id: BLC0442-MS2  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Misc Info:

Calibration Date: 23-MAR-2023  
 Calibration Time: 03:52  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 140507   | 70254      | 281014  | 157202 | 11.88 |
| 27 Naphthalene-d8   | 499190   | 249595     | 998380  | 573631 | 14.91 |
| 42 Acenaphthene-d10 | 250303   | 125152     | 500606  | 295406 | 18.02 |
| 59 Phenanthrene-d10 | 496896   | 248448     | 993792  | 615665 | 23.90 |
| 69 Chrysene-d12     | 465837   | 232919     | 931674  | 557974 | 19.78 |
| 77 Perylene-d12     | 551078   | 275539     | 1102156 | 678005 | 23.03 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.09     | 8.59     | 9.59  | 9.09   | -0.00 |
| 27 Naphthalene-d8   | 11.58    | 11.08    | 12.08 | 11.58  | -0.00 |
| 42 Acenaphthene-d10 | 15.21    | 14.71    | 15.71 | 15.21  | -0.00 |
| 59 Phenanthrene-d10 | 18.26    | 17.76    | 18.76 | 18.26  | -0.00 |
| 69 Chrysene-d12     | 23.35    | 22.85    | 23.85 | 23.36  | 0.03  |
| 77 Perylene-d12     | 26.04    | 25.54    | 26.54 | 26.05  | 0.06  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222322S.D

Lab ID: BLC0442-MS2

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 23-MAR-2023 06:24

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND     |
|-------|---------|--------|--------------|
| 0.961 | 0.953   | 0.0081 | Benzoic acid |

RRT check based on Ccal File: SIM.b/NT1003222318S.D

On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

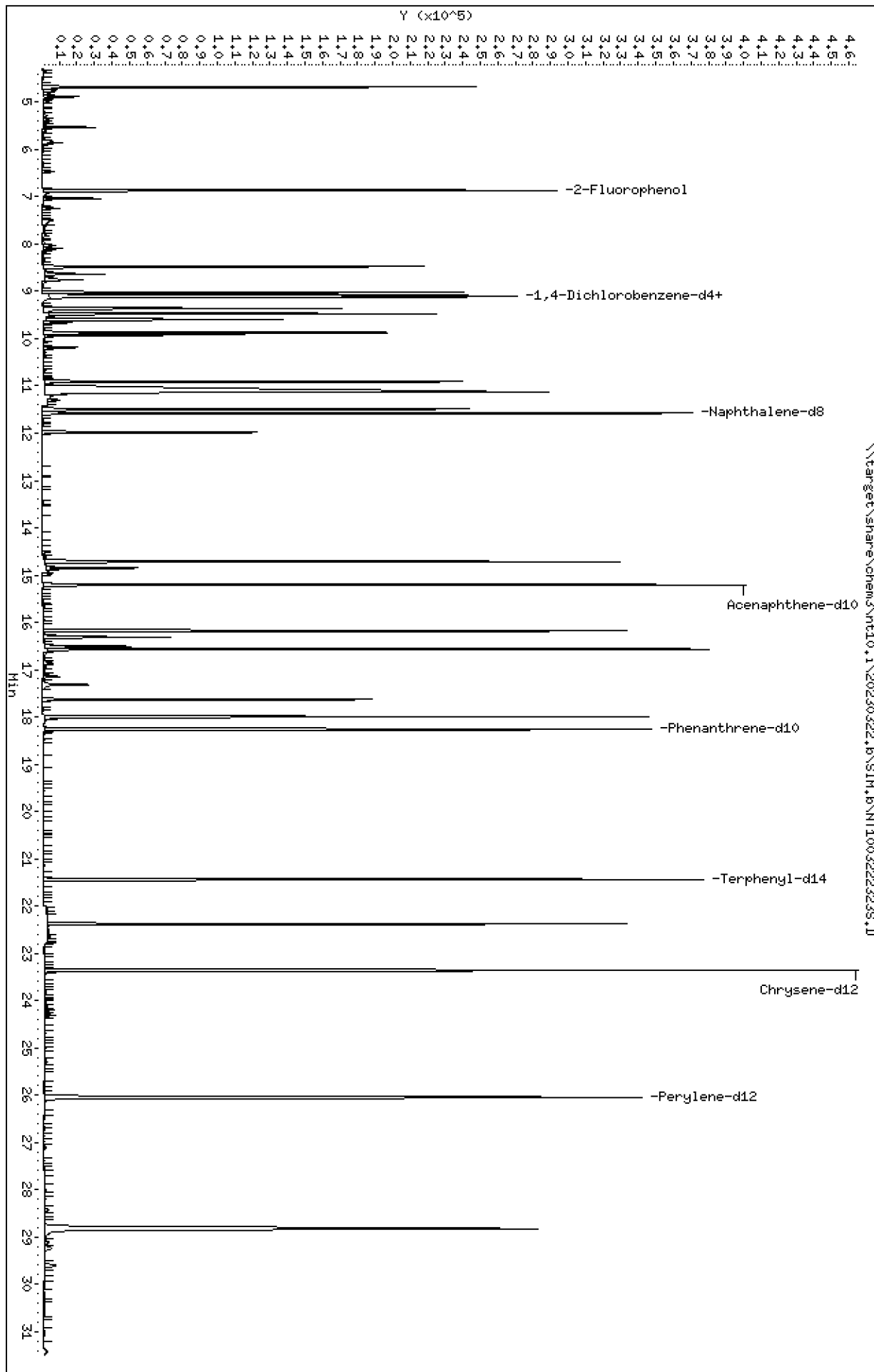
Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

Data File: \\target\share\chem3\nt10.i\20230322.B\SIM.B\NT1003222323S.D  
Date: 23-MAR-2023 07:01  
Client ID:  
Sample Info: BLC0442-HSD1  
Volume Injected (uL): 1.0  
Column phase: ZB-5msi

Instrument: nt10.i  
Operator: JGR  
Column diameter: 0.25

\\target\share\chem3\nt10.i\20230322.B\SIM.B\NT1003222323S.D





Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

Volume Injected (uL): 1.0

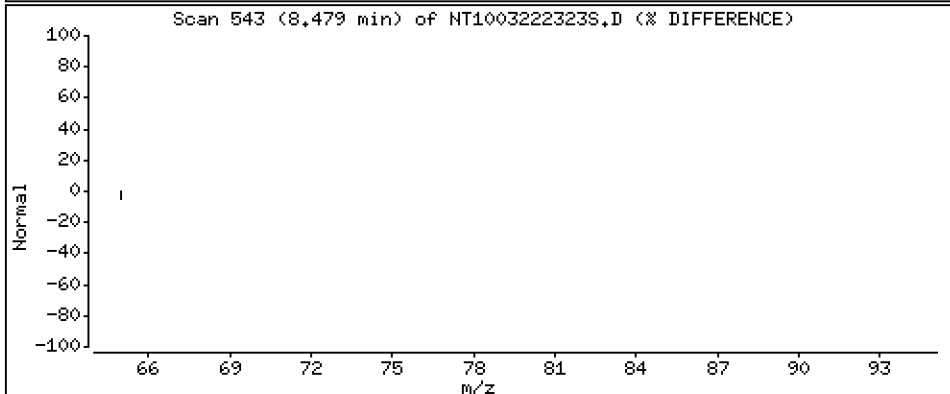
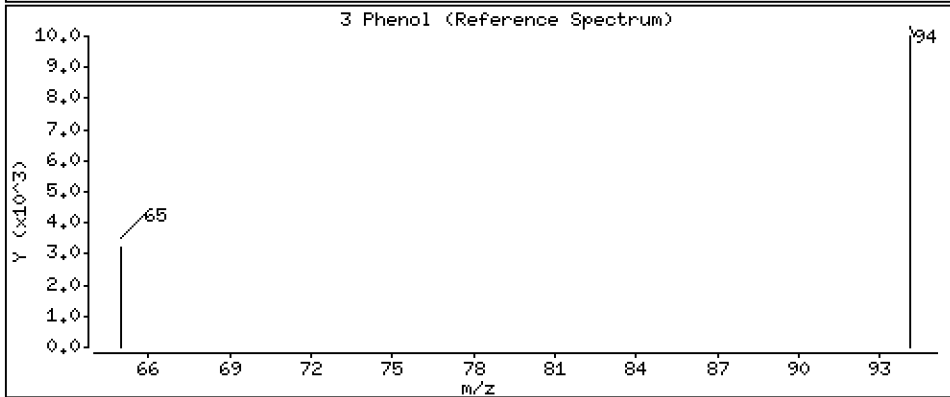
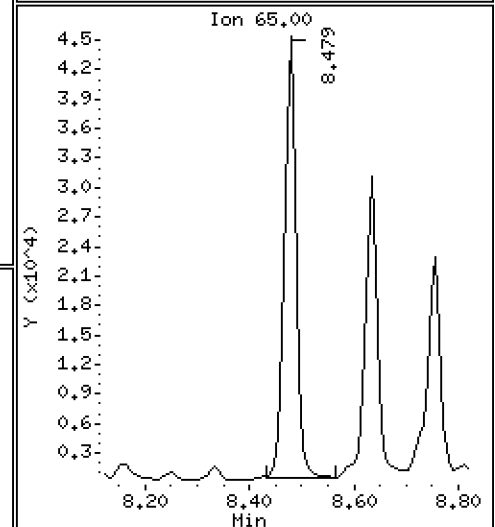
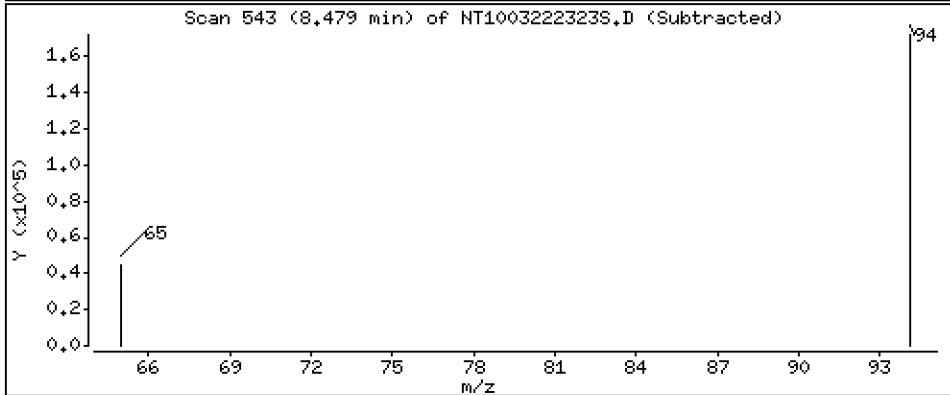
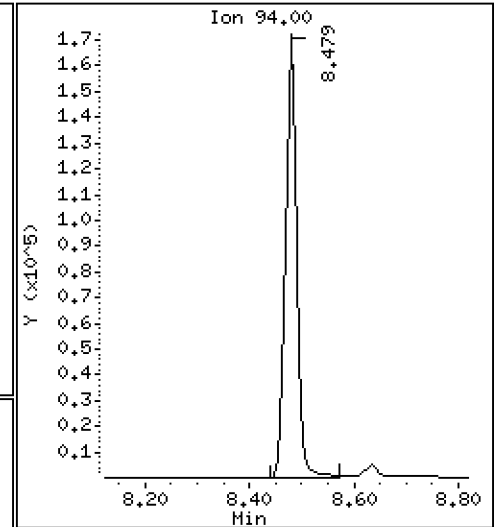
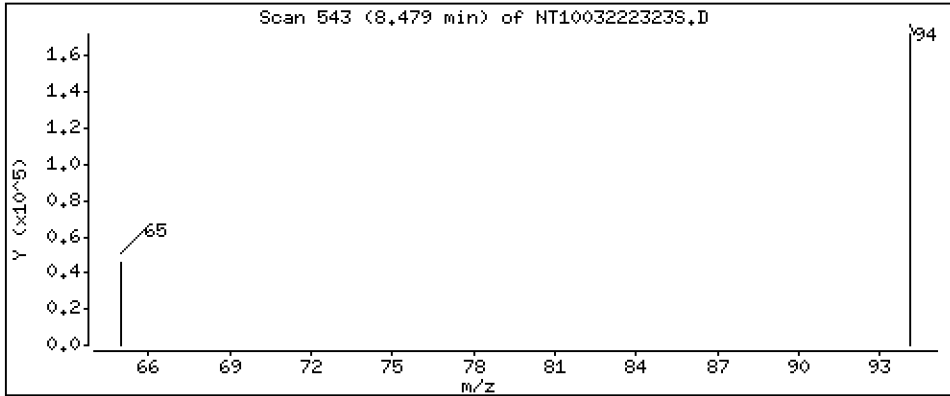
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 3,710 ug/L



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

Volume Injected (uL): 1.0

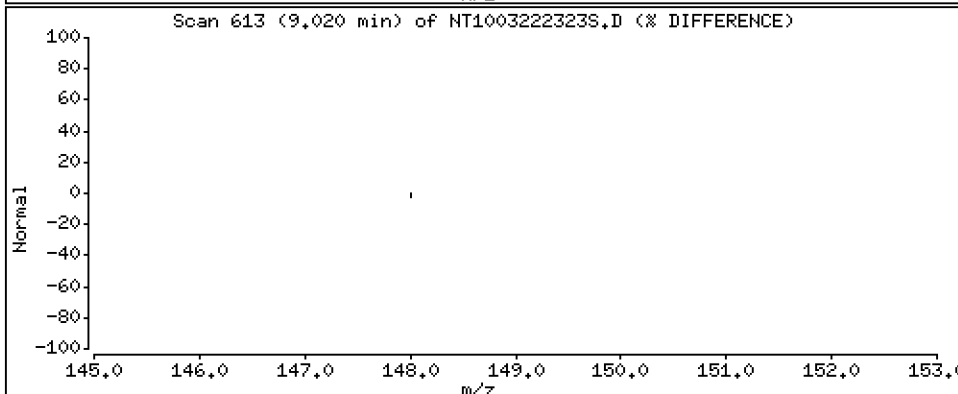
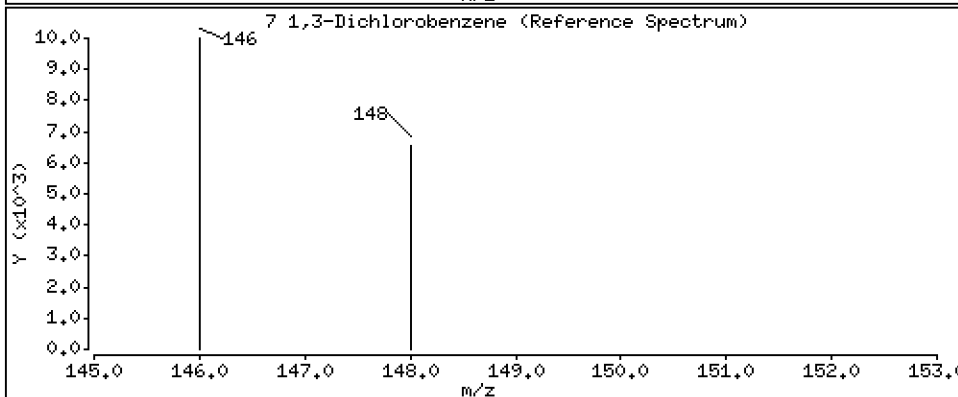
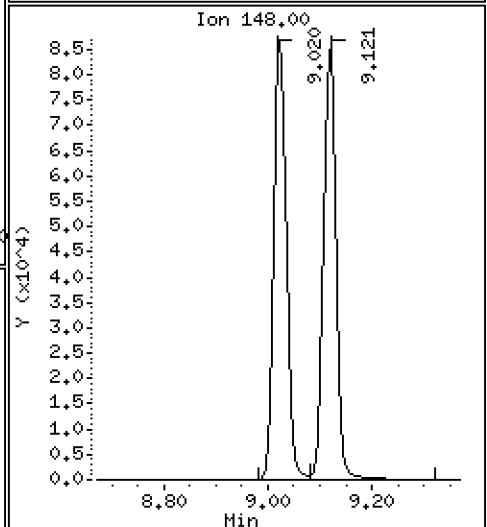
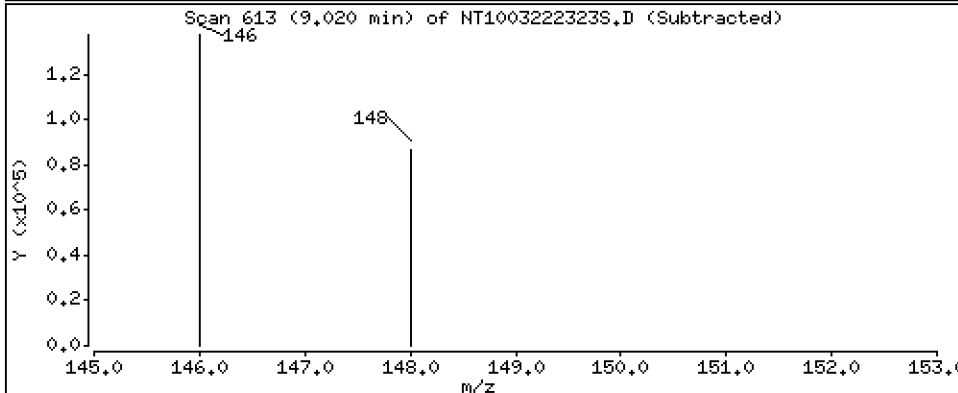
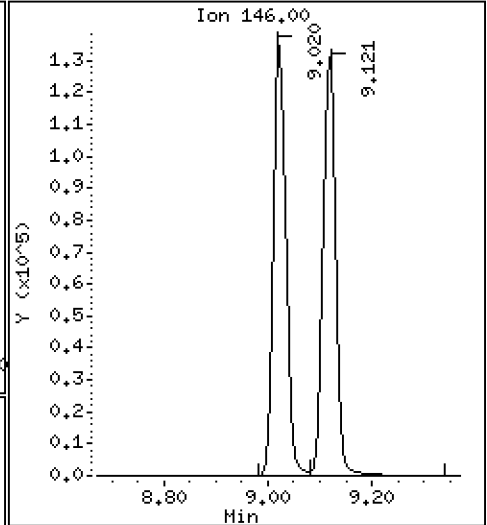
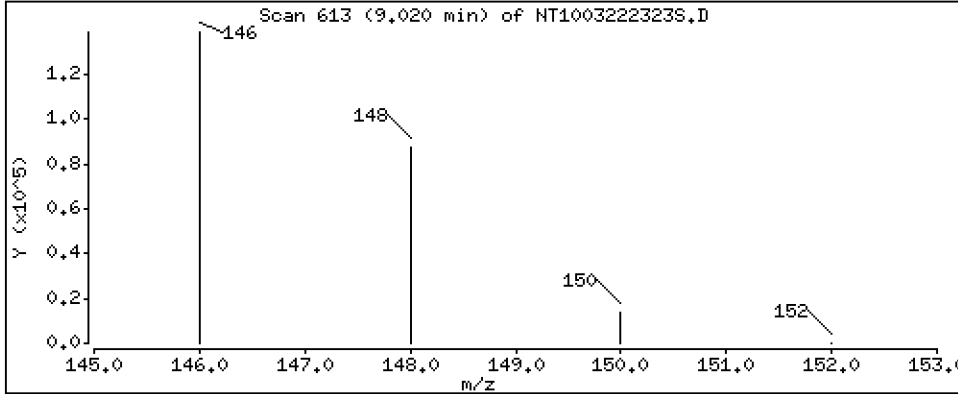
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 3.478 ug/L



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

Volume Injected (uL): 1.0

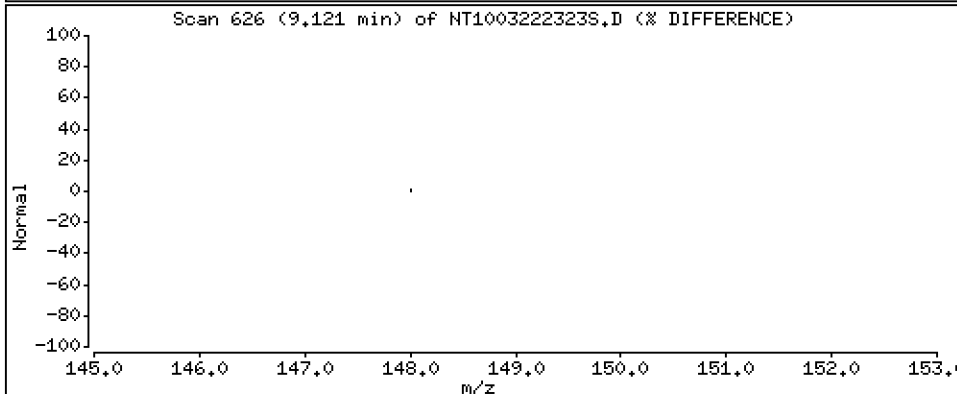
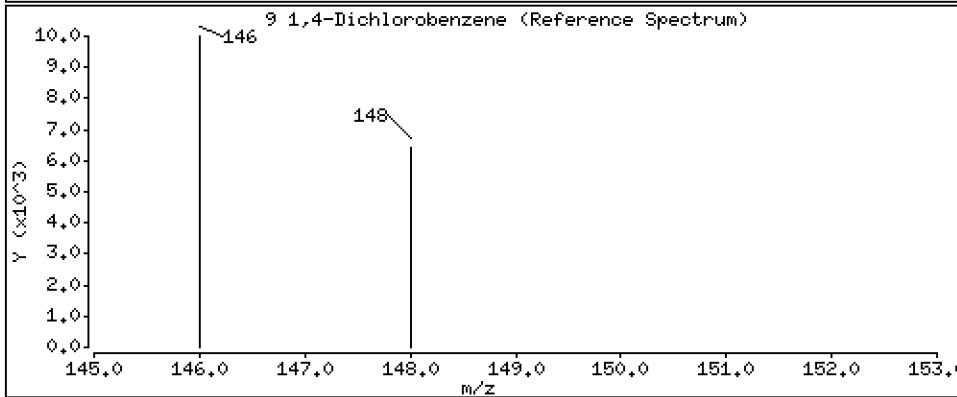
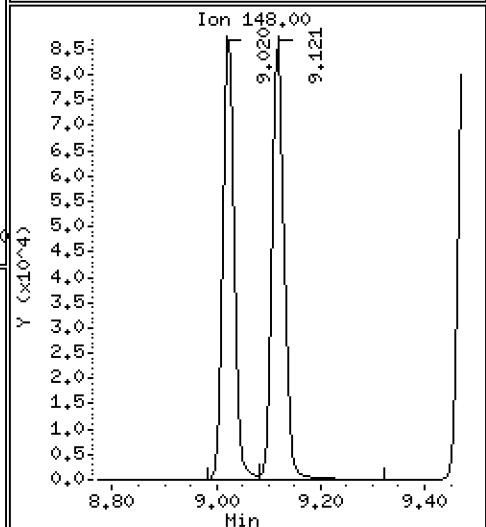
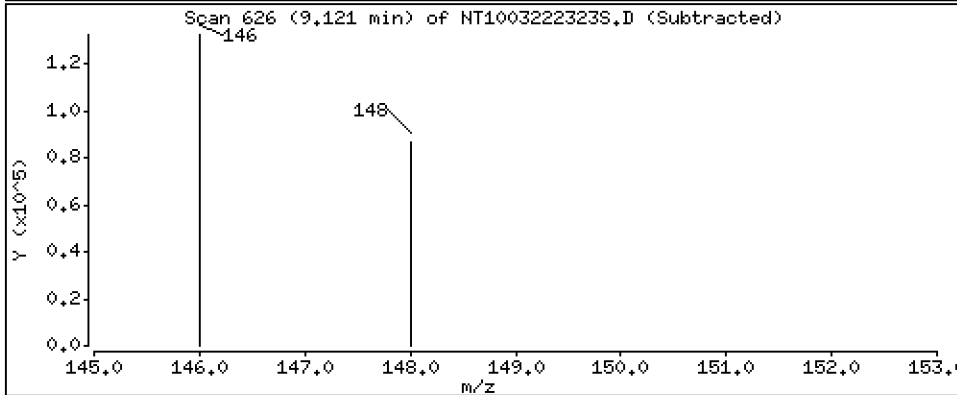
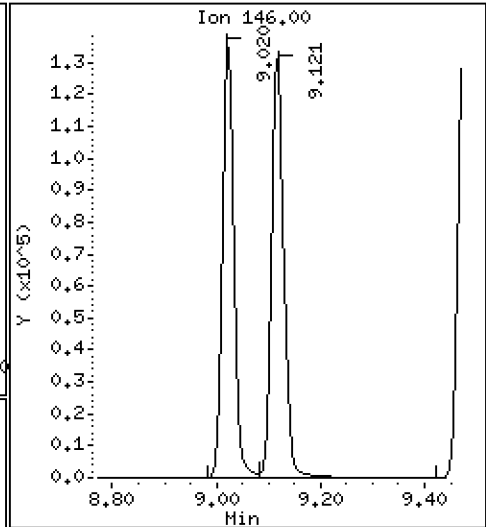
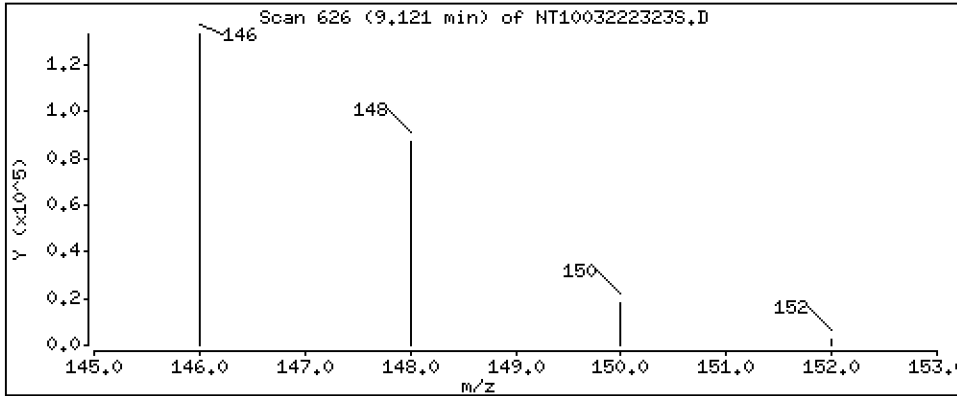
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 3,559 ug/L



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

Volume Injected (uL): 1.0

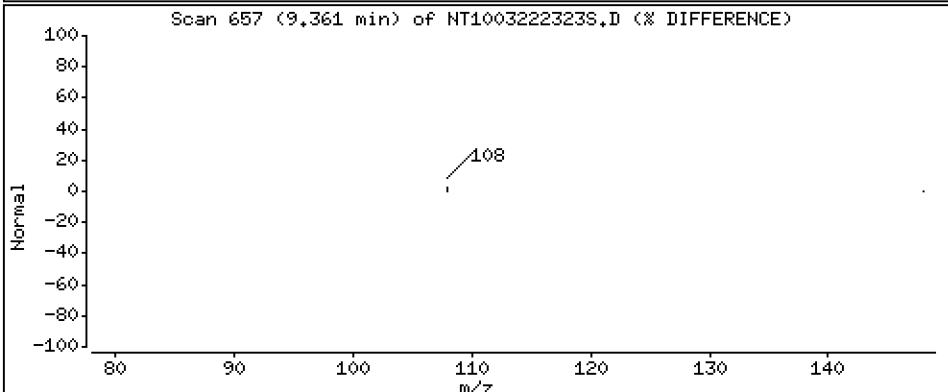
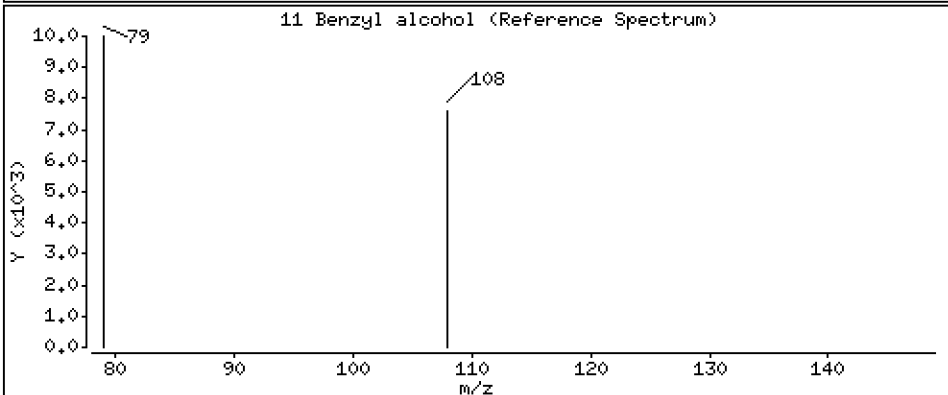
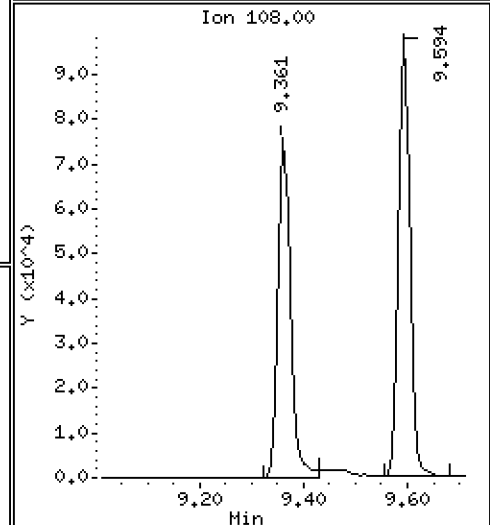
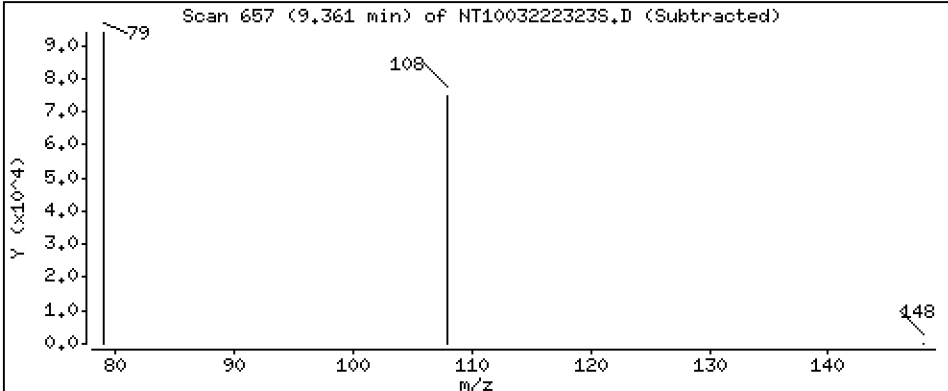
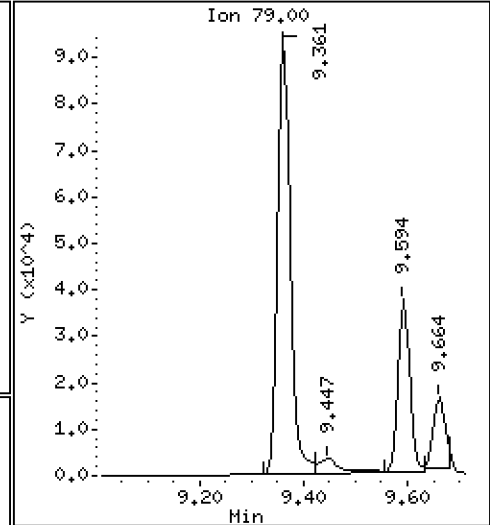
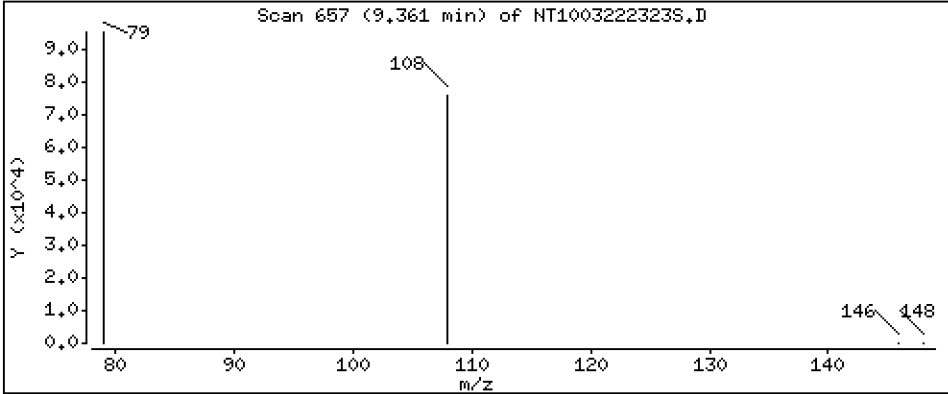
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 3,879 ug/L



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

Volume Injected (uL): 1.0

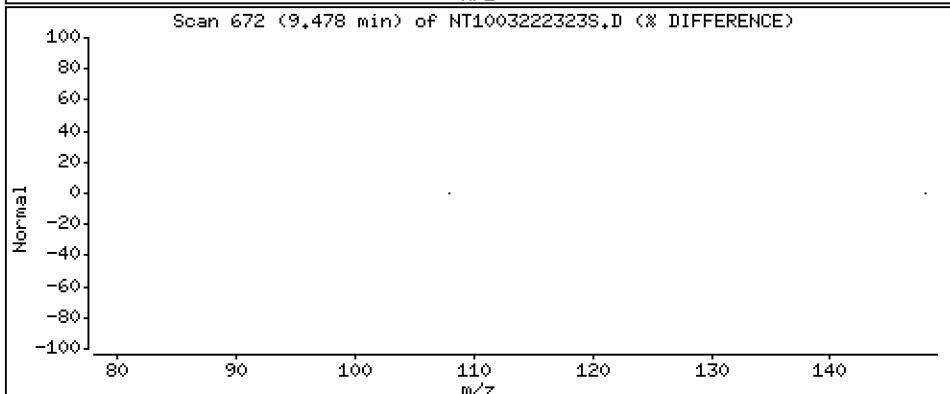
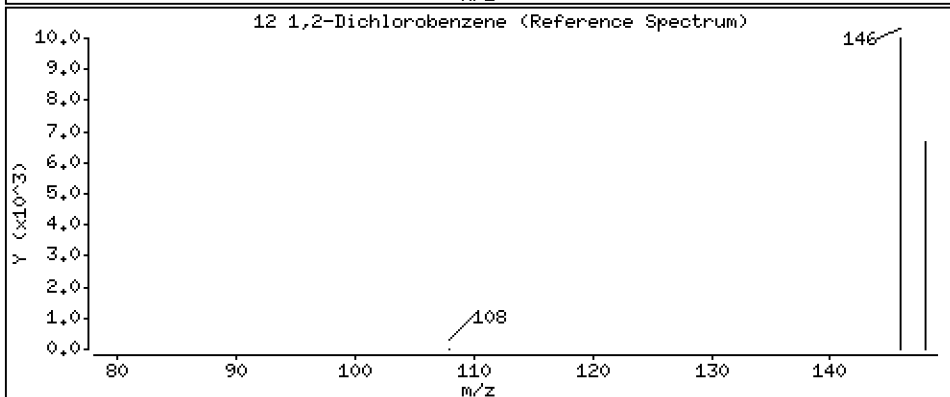
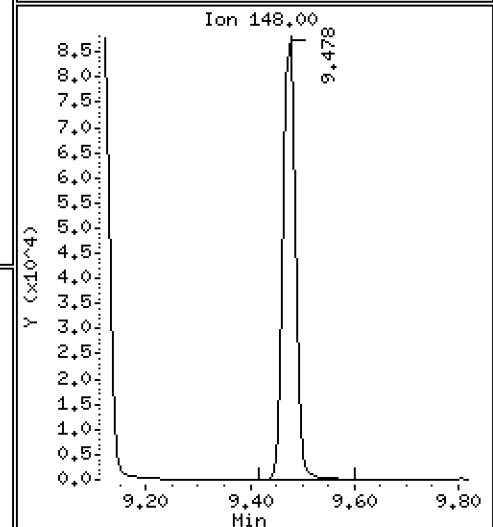
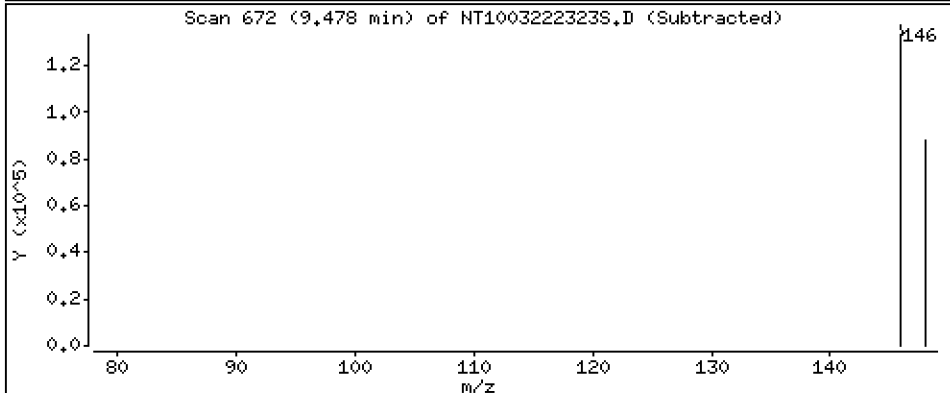
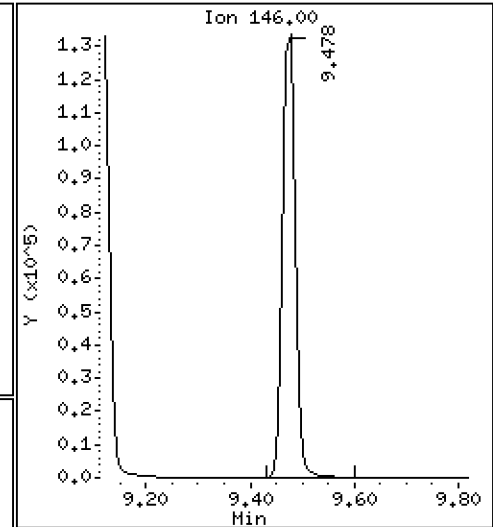
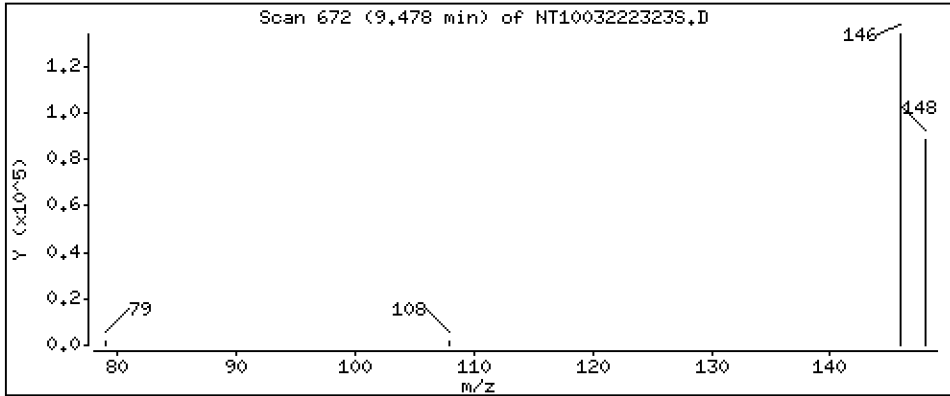
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 3.583 ug/L



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

Volume Injected (uL): 1.0

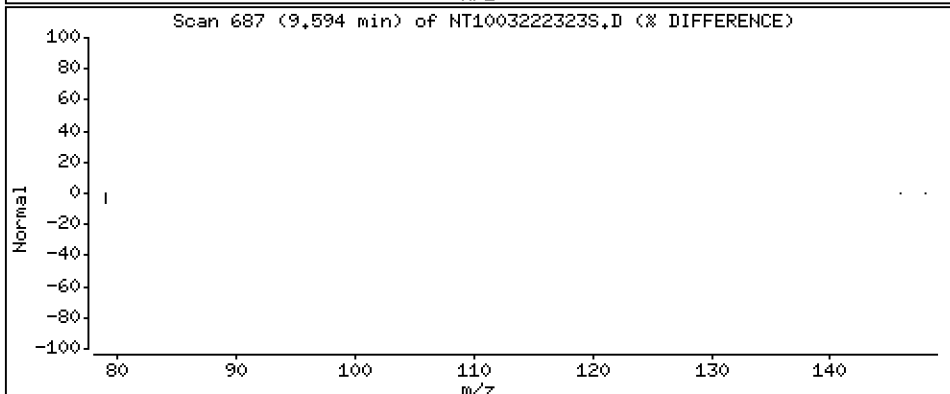
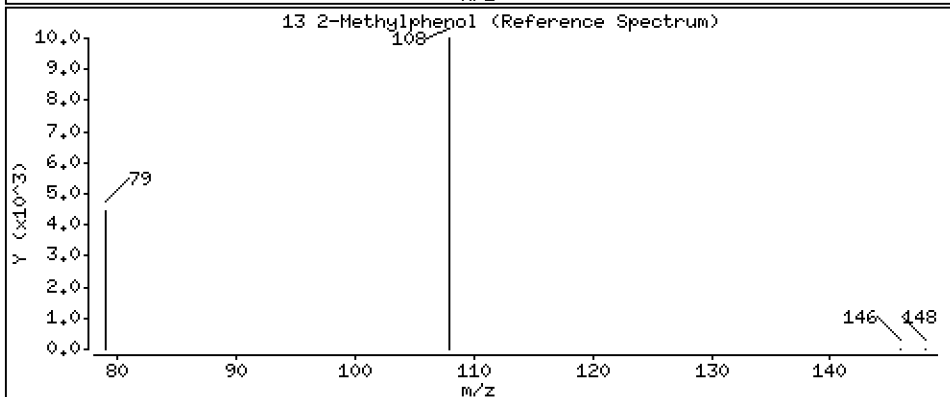
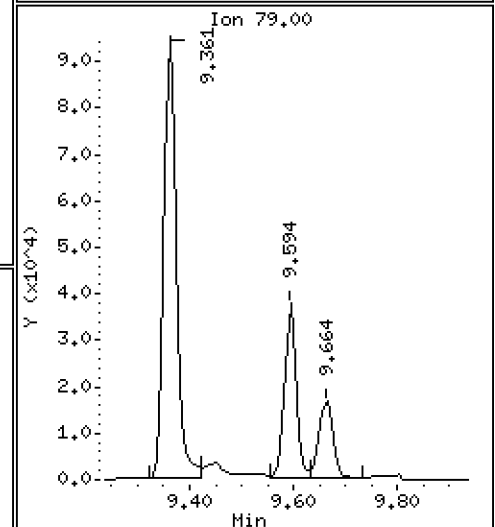
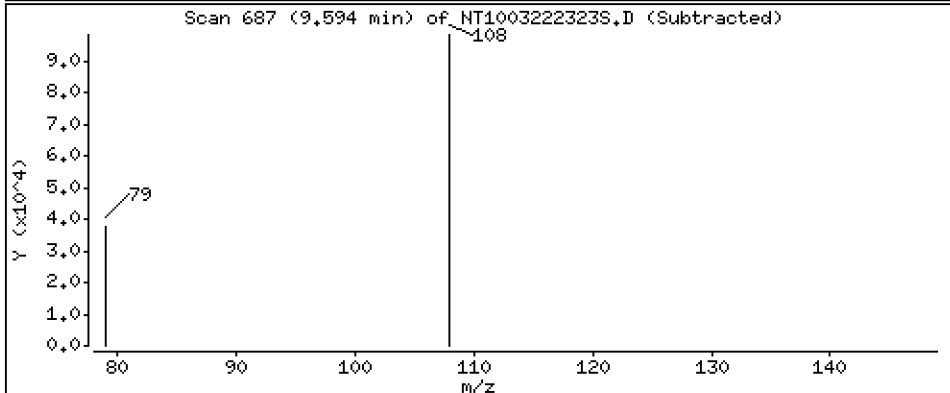
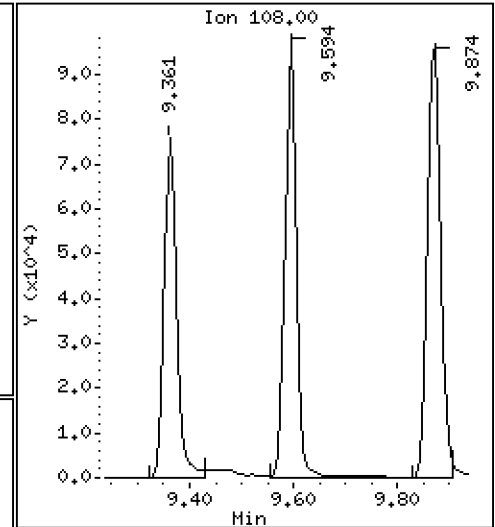
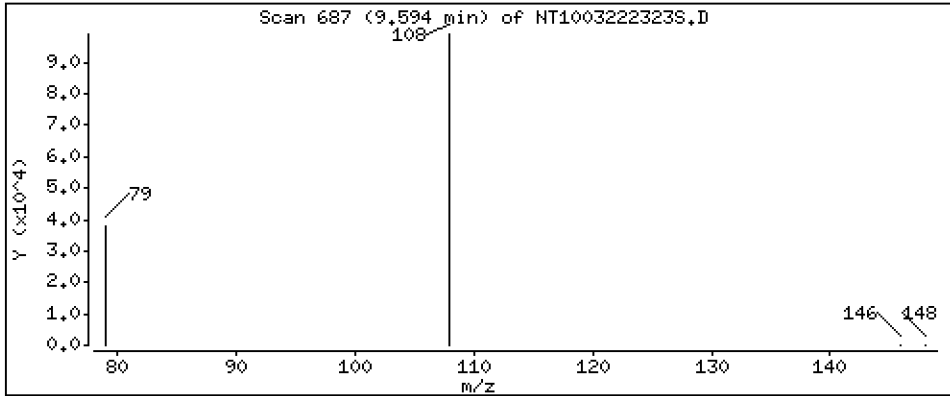
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 3.065 ug/L



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

Volume Injected (uL): 1.0

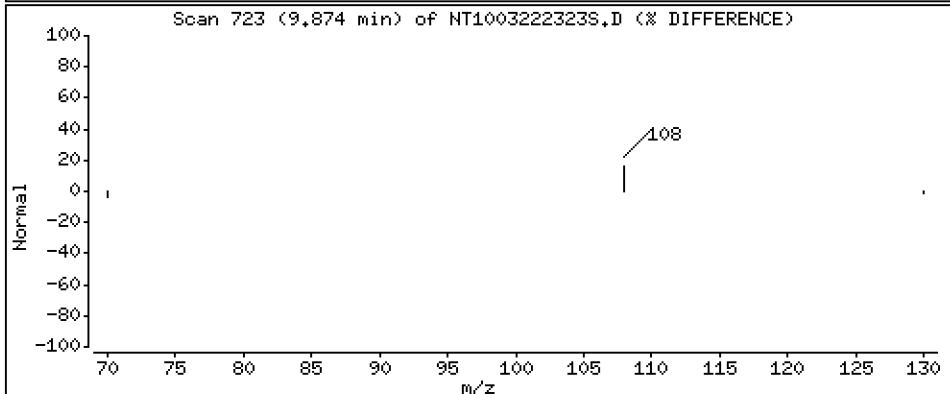
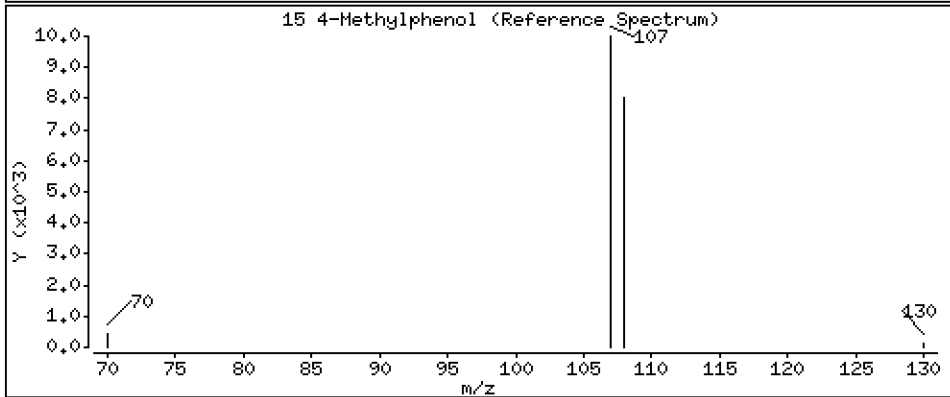
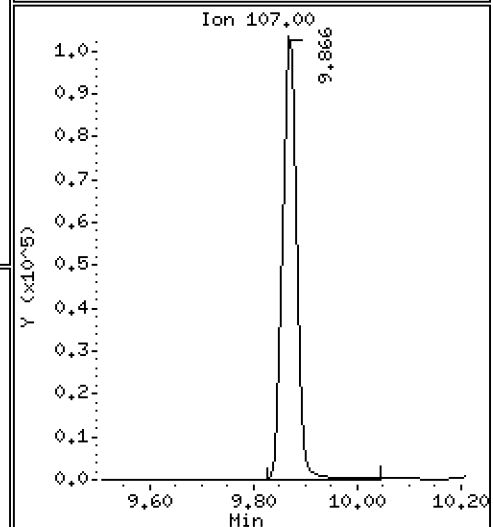
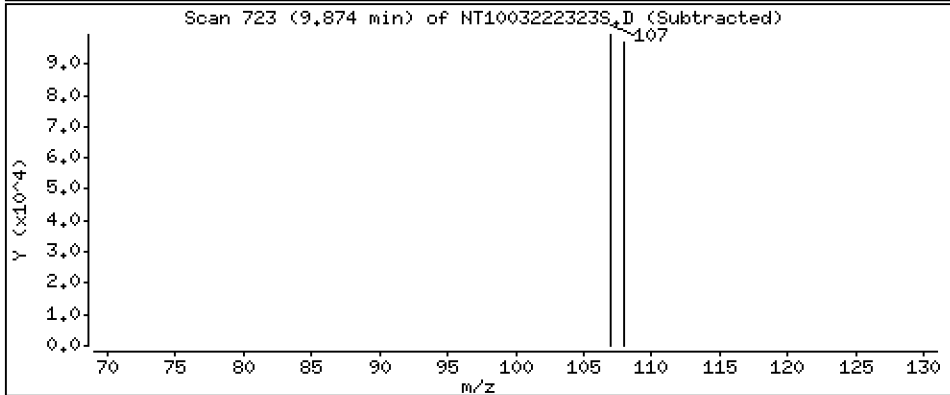
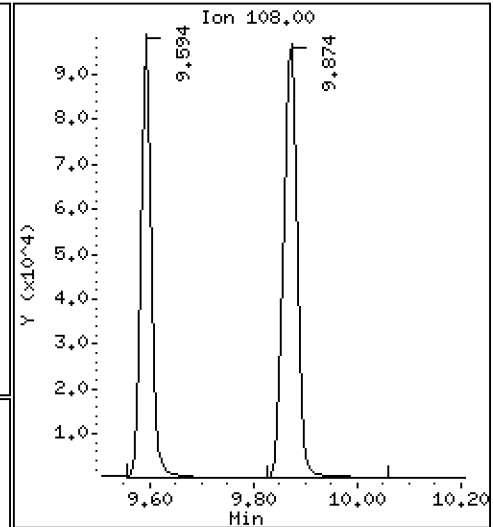
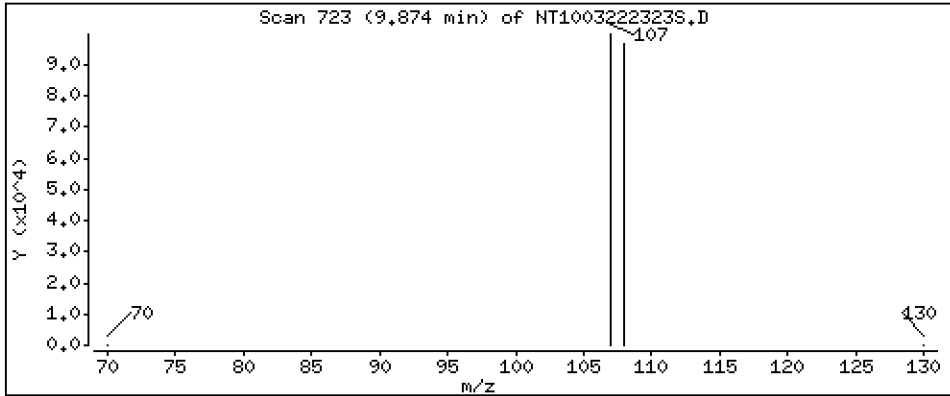
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 3.713 ug/L



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

Volume Injected (uL): 1.0

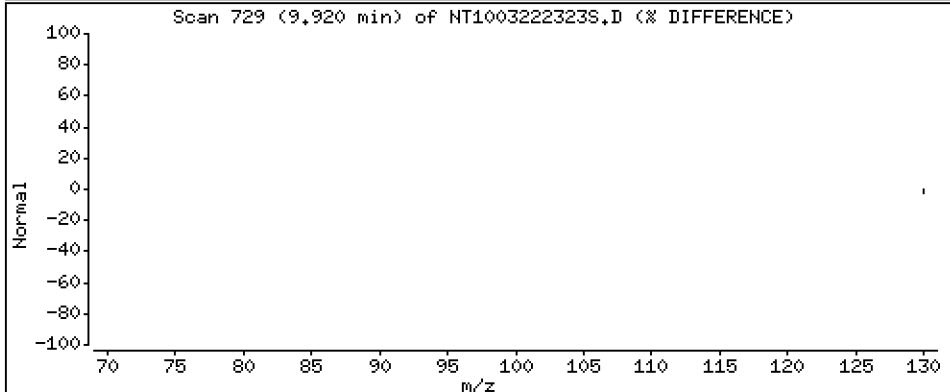
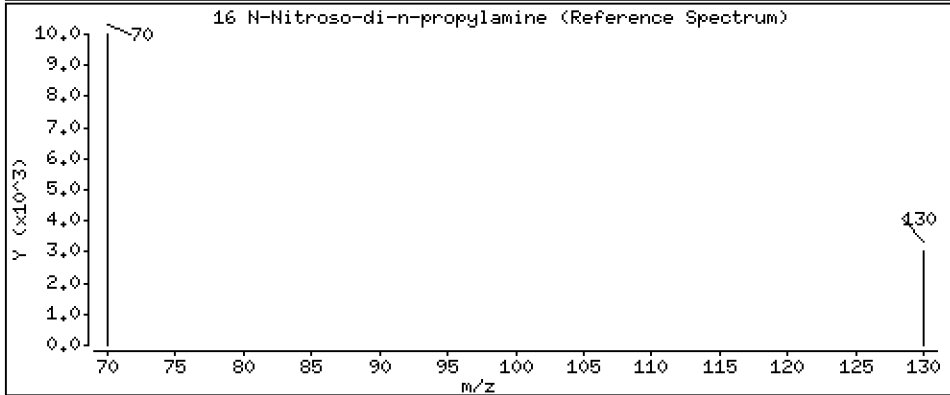
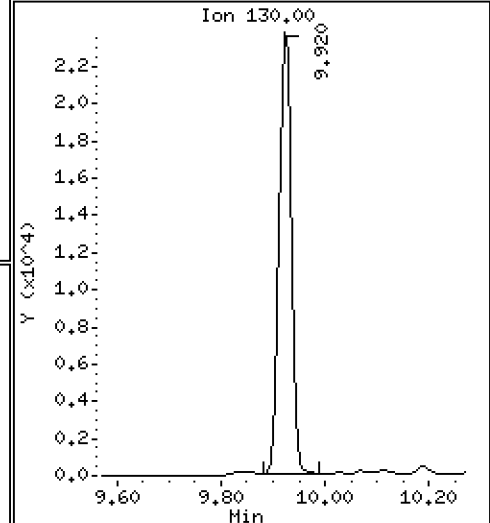
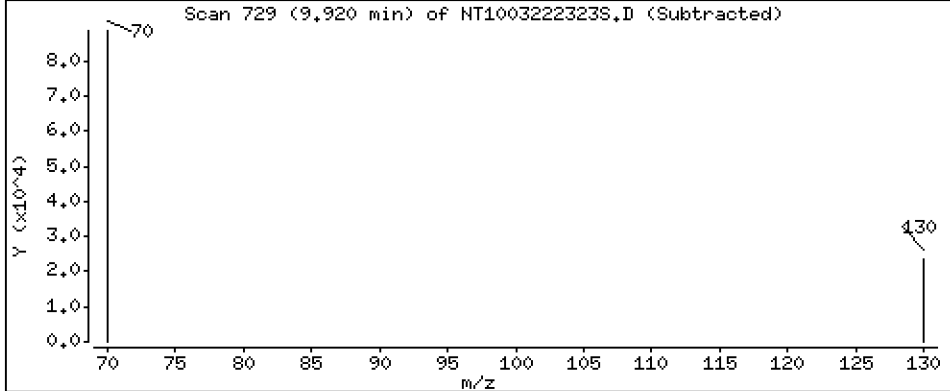
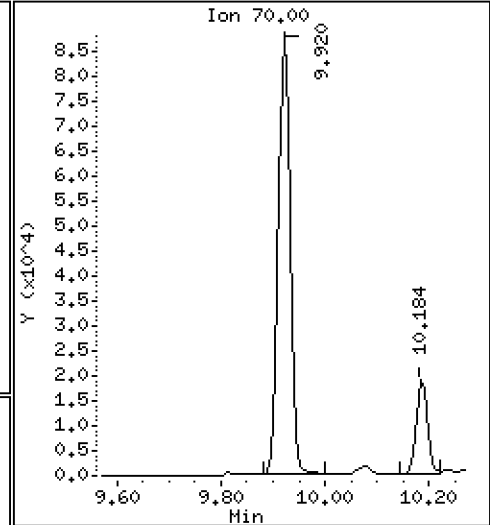
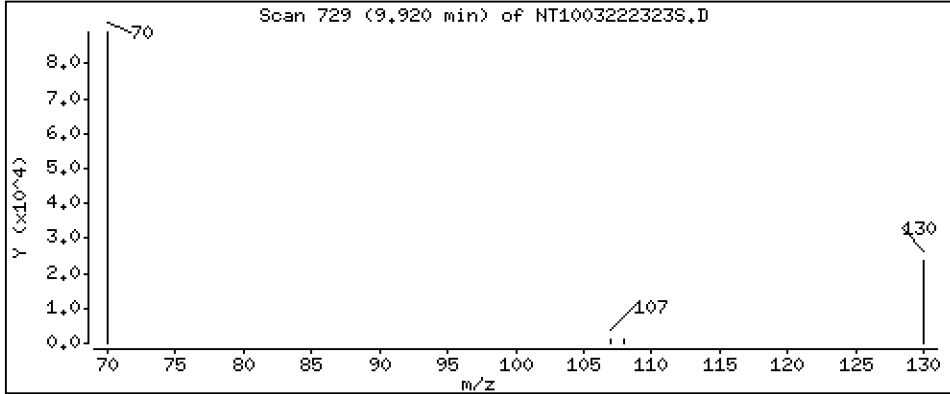
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 3,896 ug/L





Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

Volume Injected (uL): 1.0

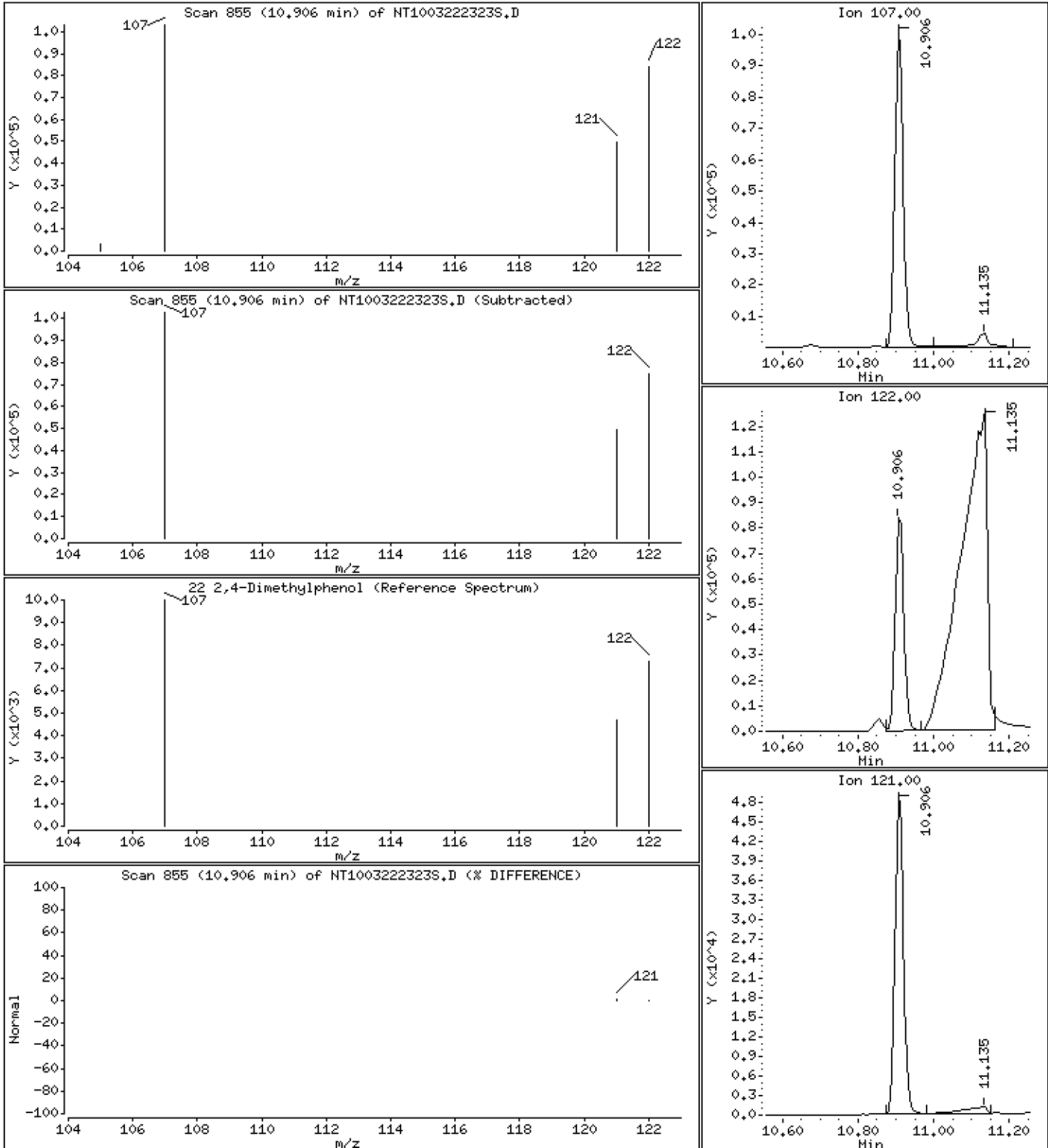
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 3.038 ug/L



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

Volume Injected (uL): 1.0

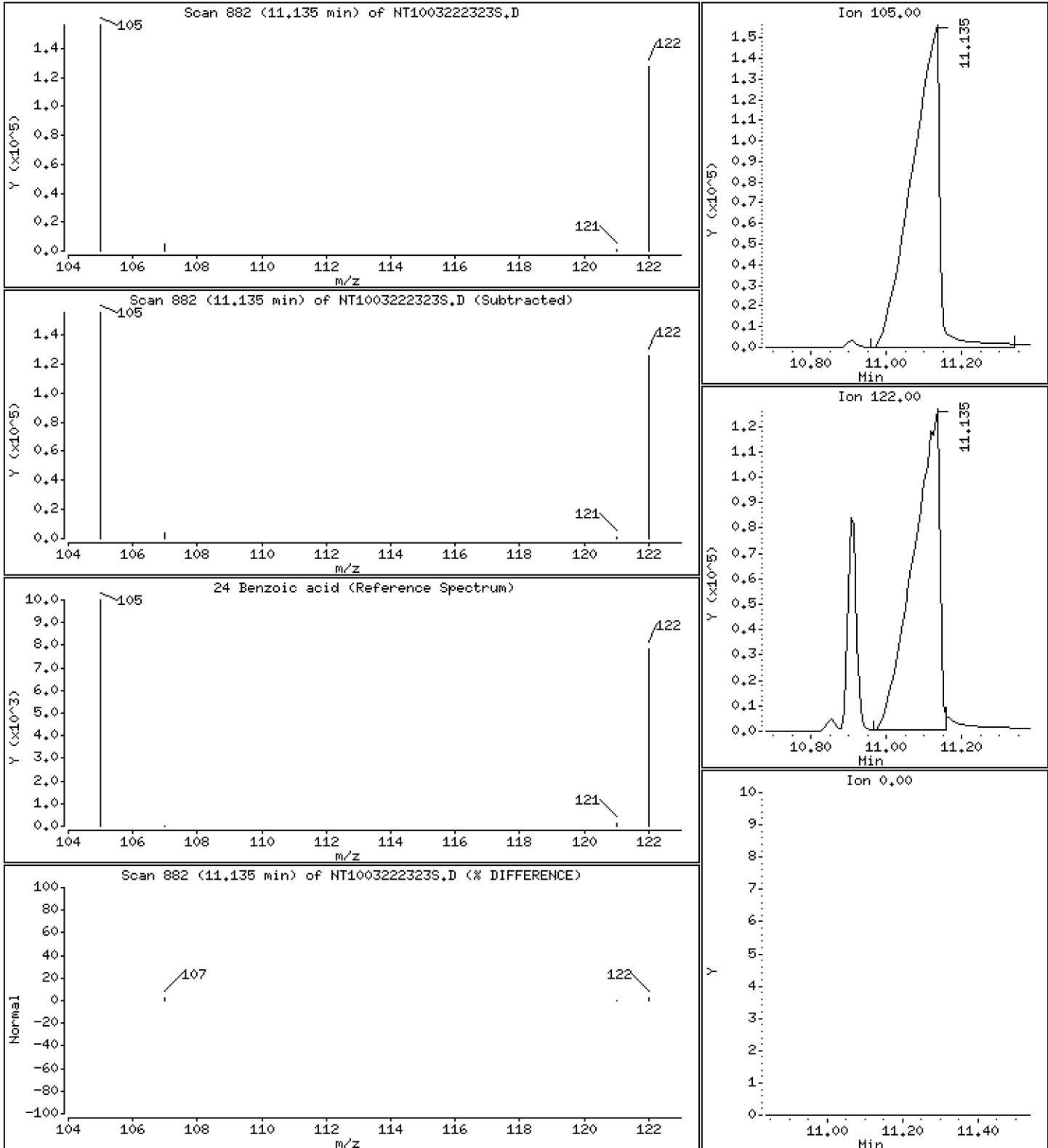
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 25,61 ug/L



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

Volume Injected (uL): 1.0

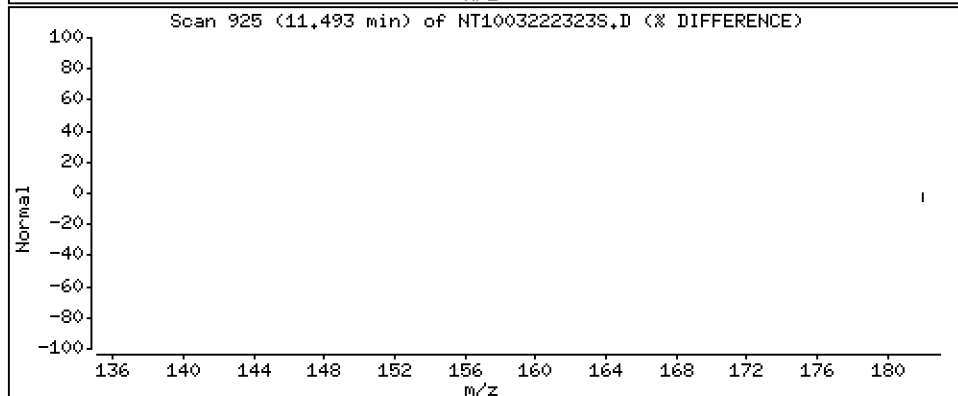
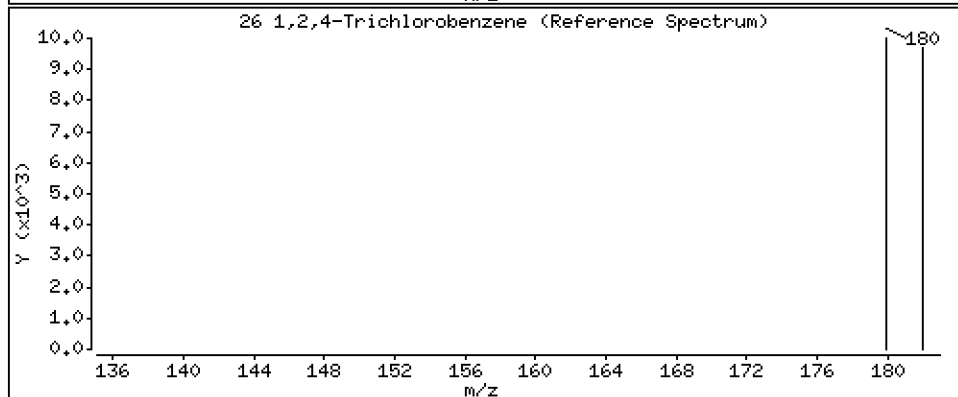
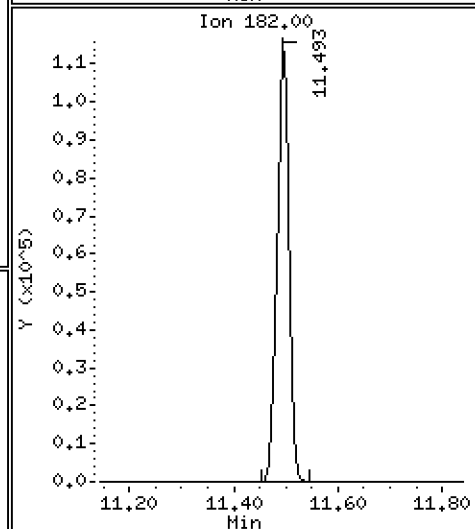
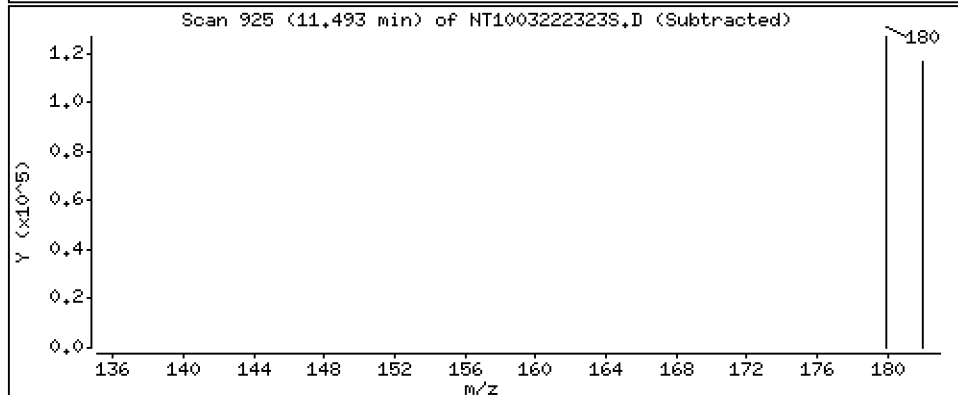
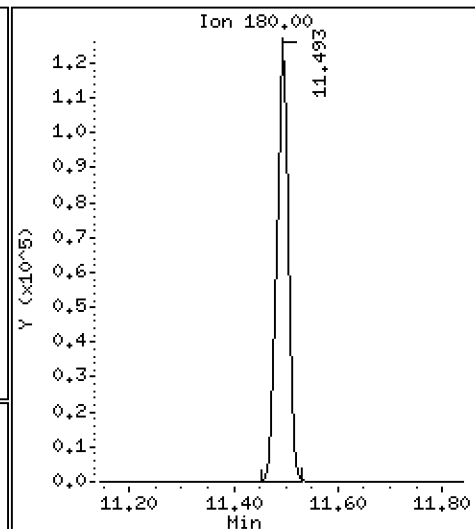
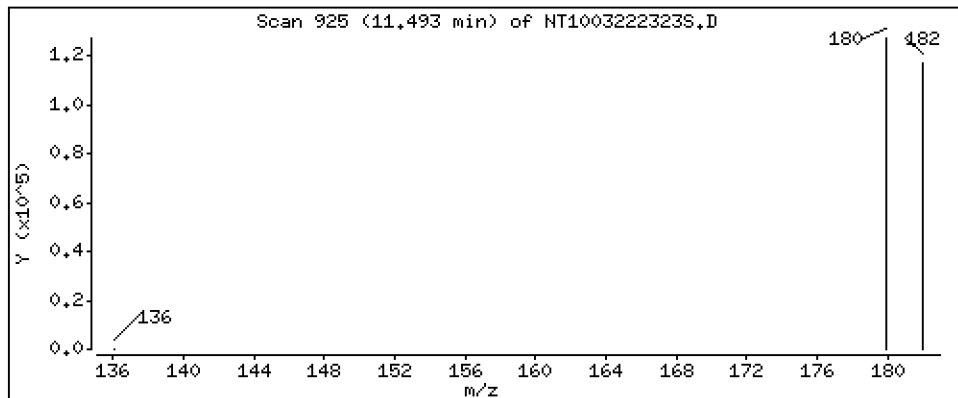
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 3,767 ug/L



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

Volume Injected (uL): 1.0

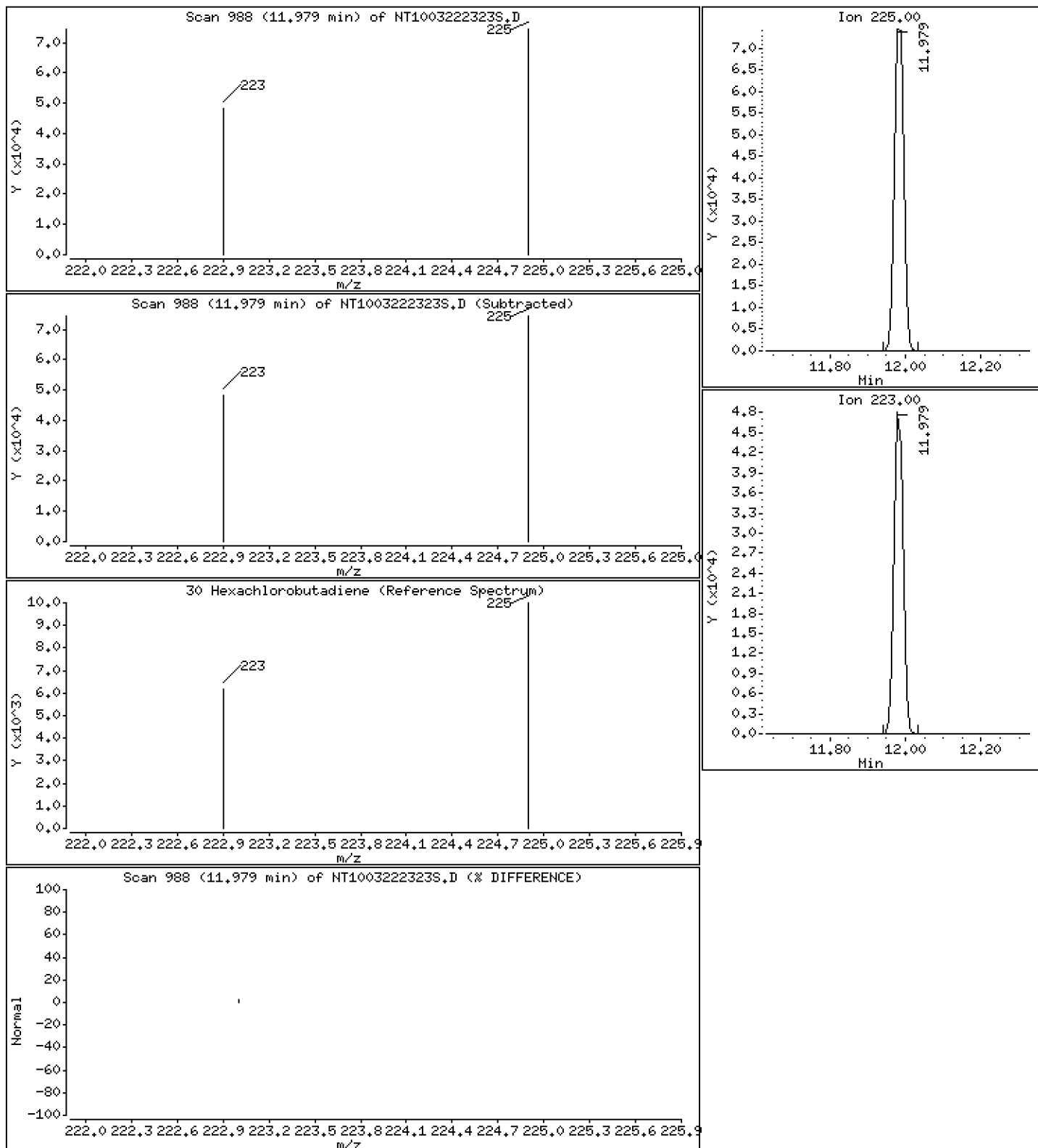
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 3,977 ug/L



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

Volume Injected (uL): 1.0

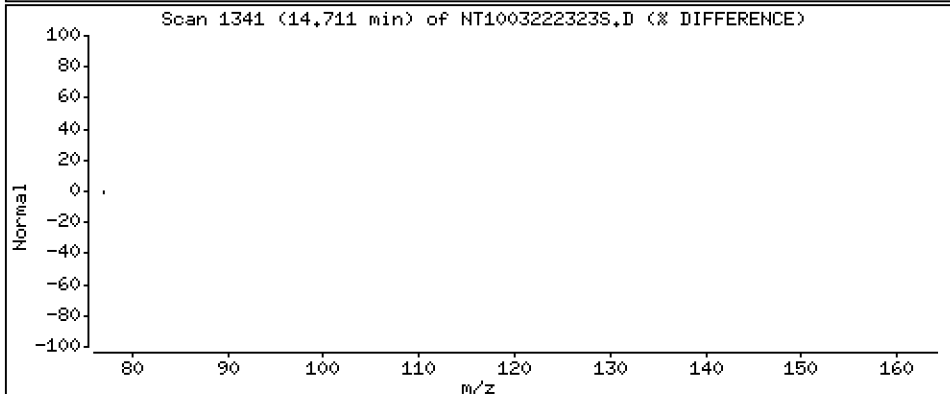
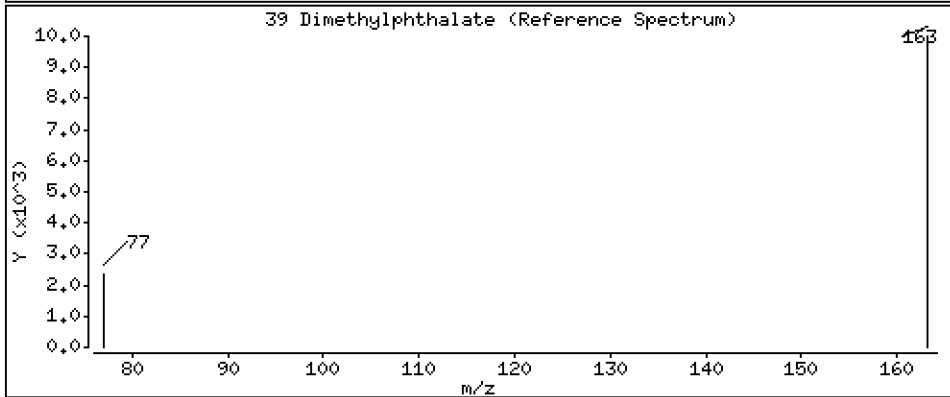
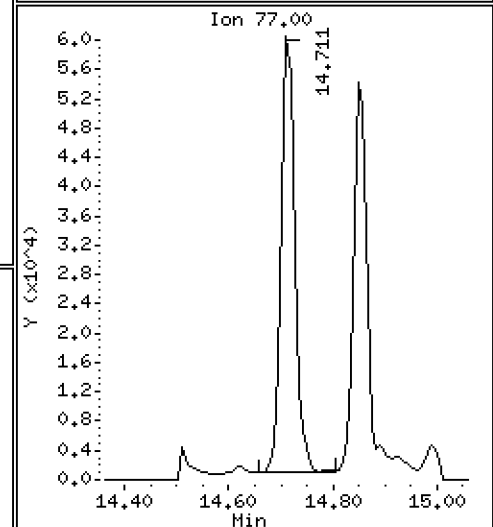
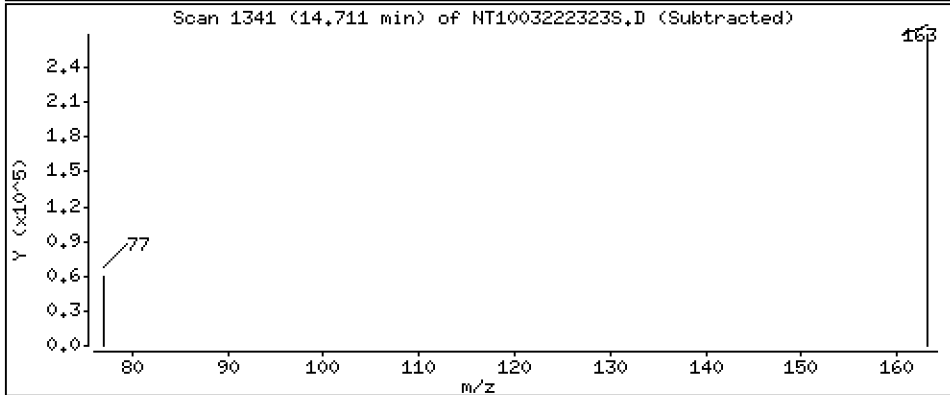
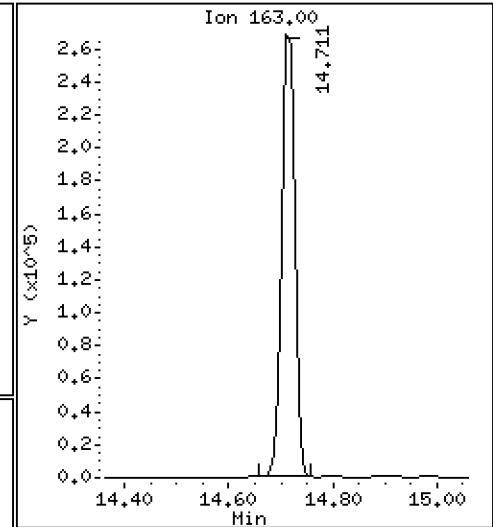
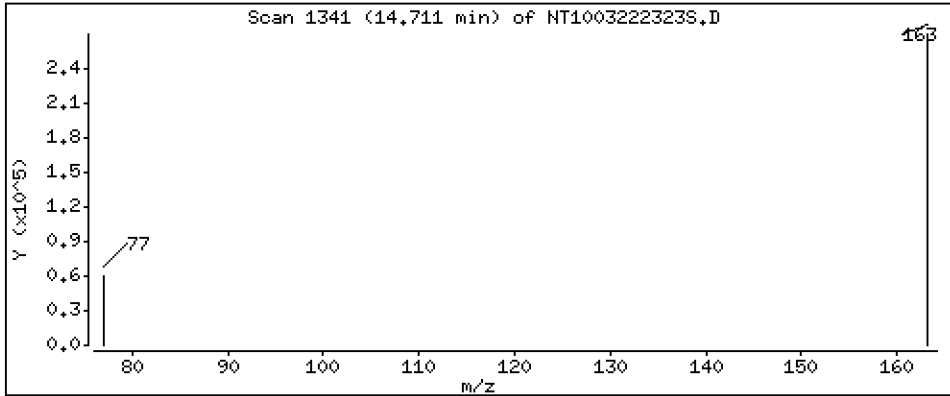
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,686 ug/L



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

Volume Injected (uL): 1.0

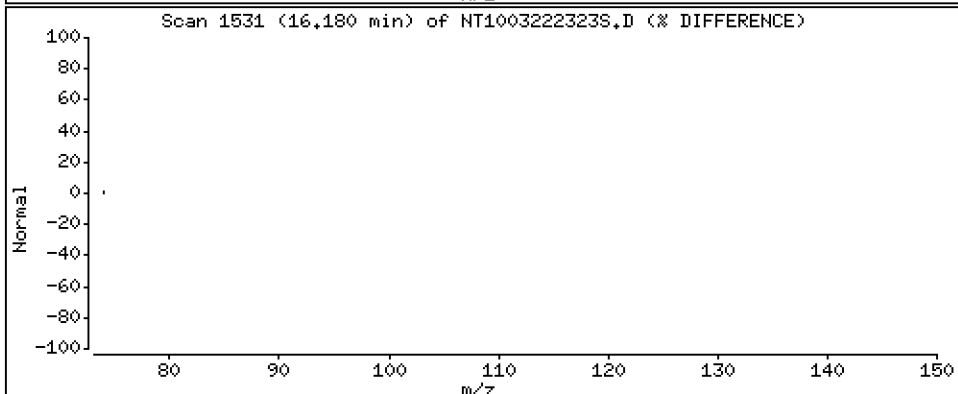
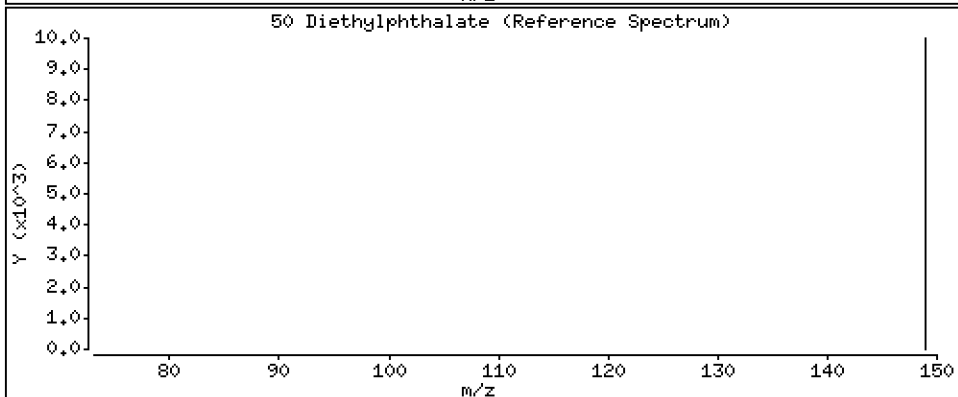
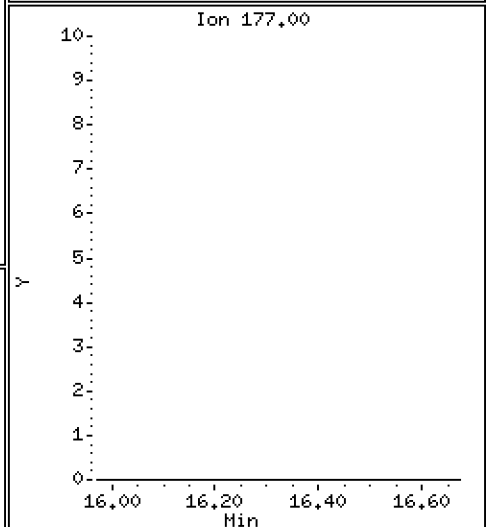
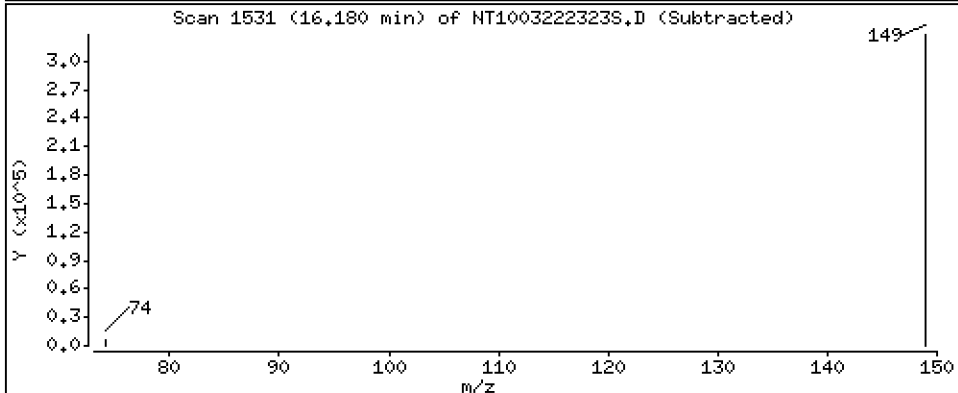
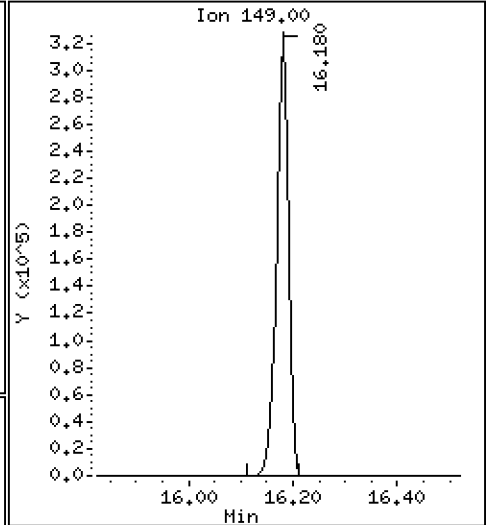
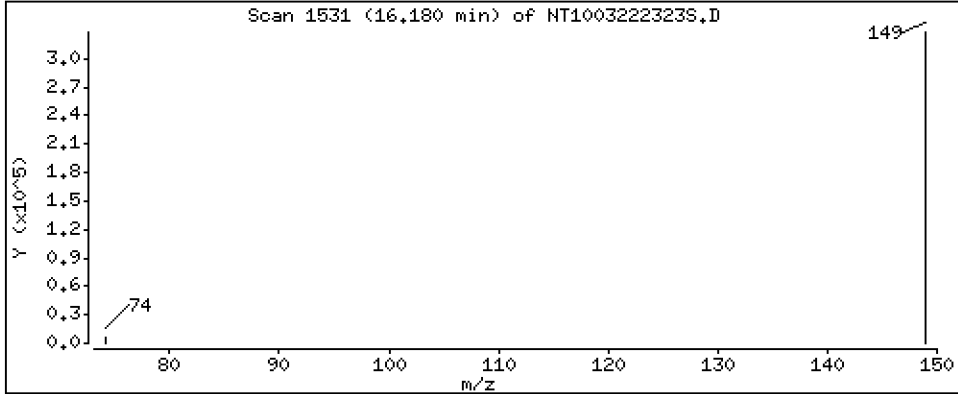
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,327 ug/L



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

Volume Injected (uL): 1.0

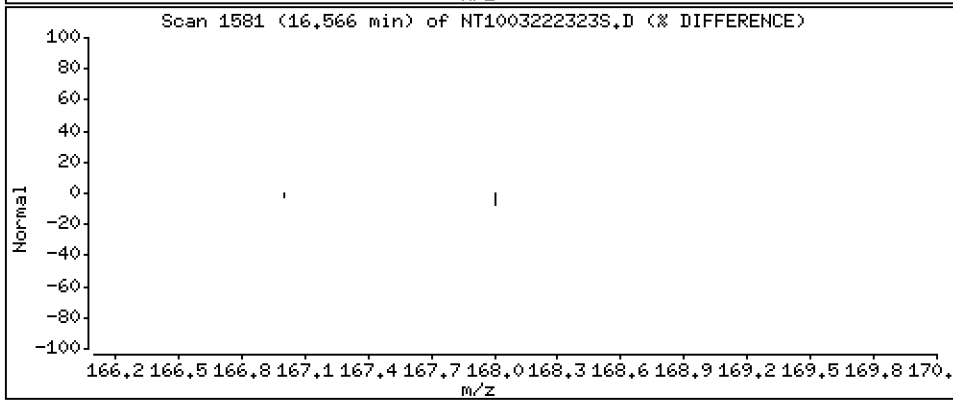
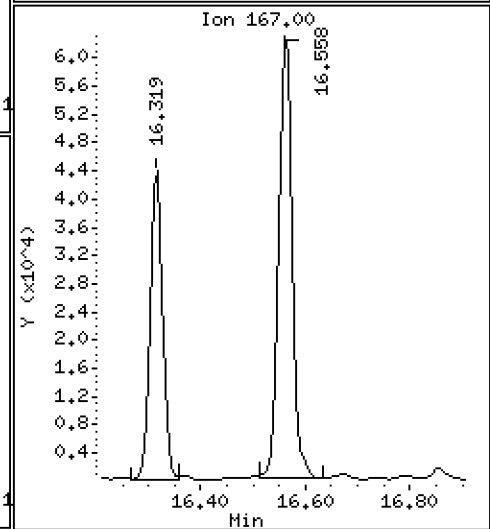
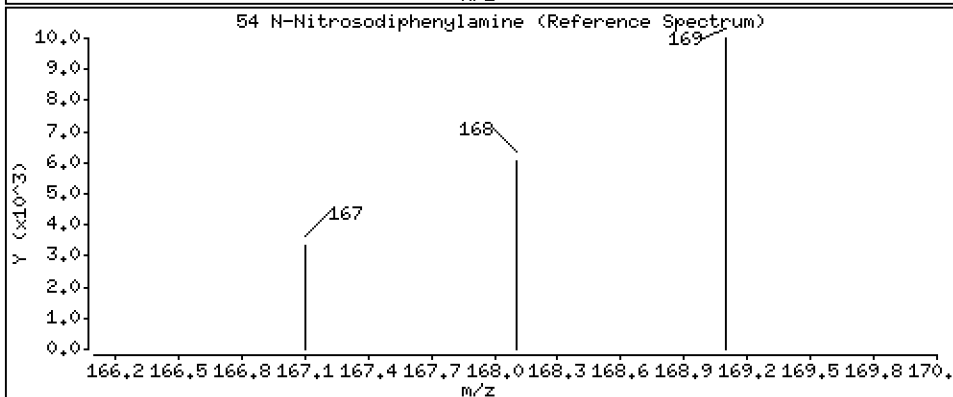
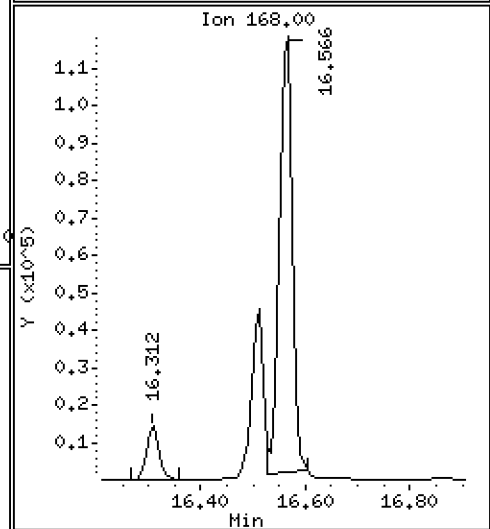
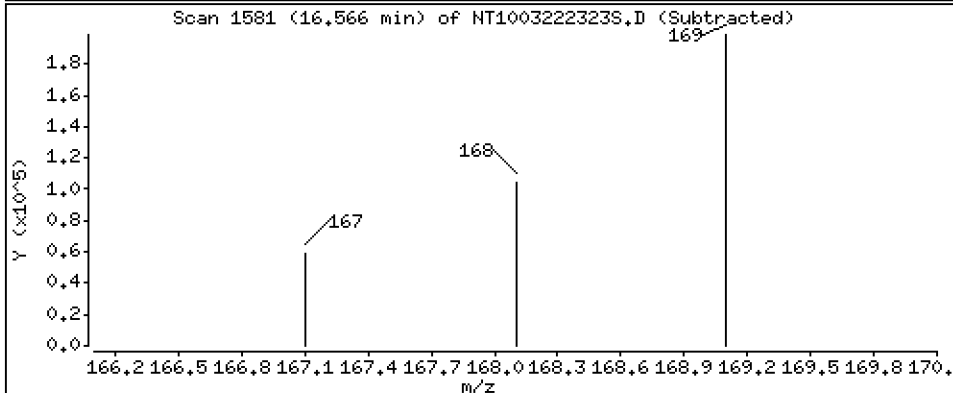
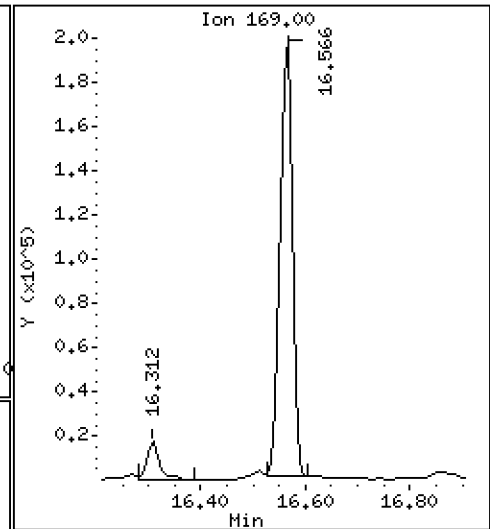
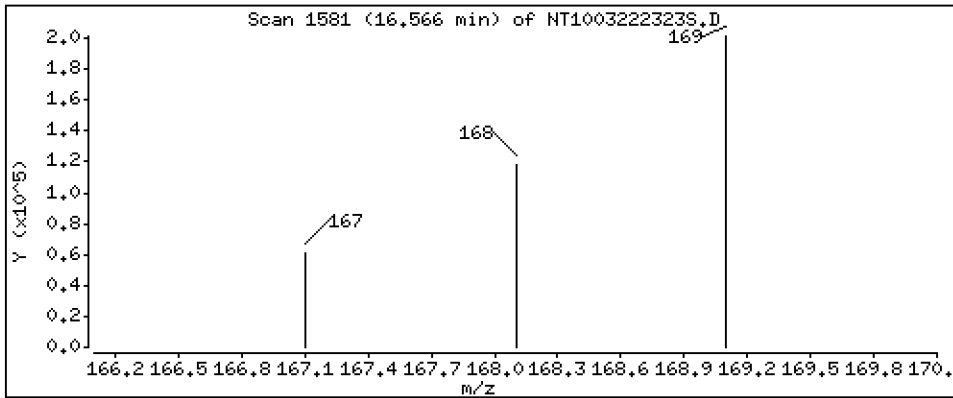
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 3.717 ug/L



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

Volume Injected (uL): 1.0

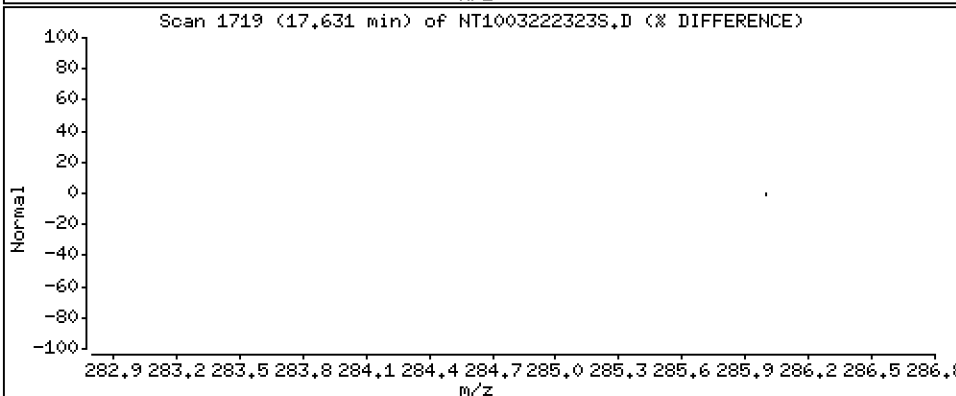
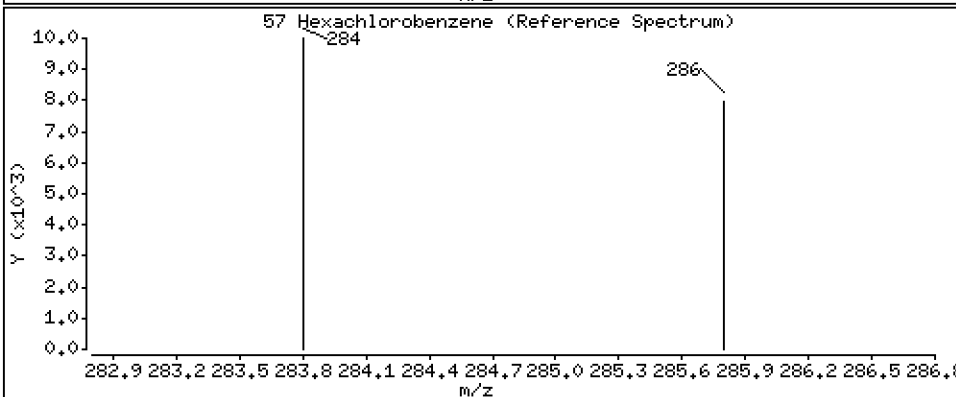
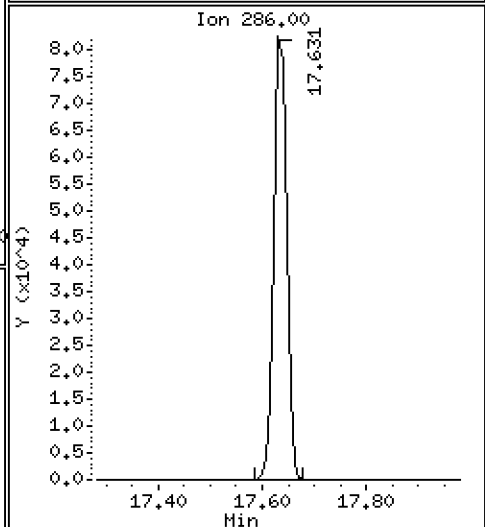
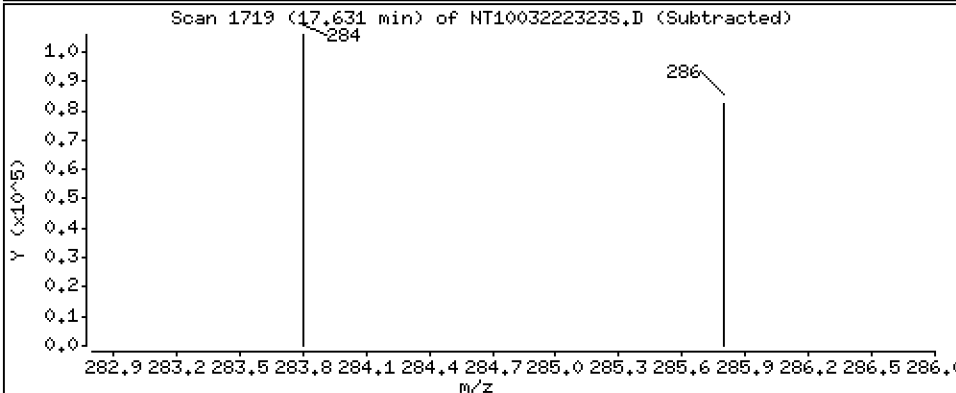
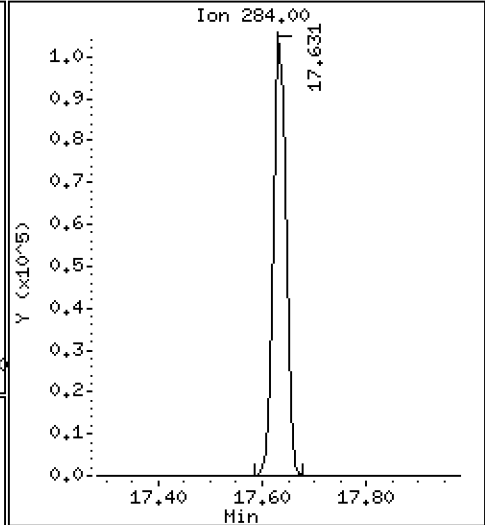
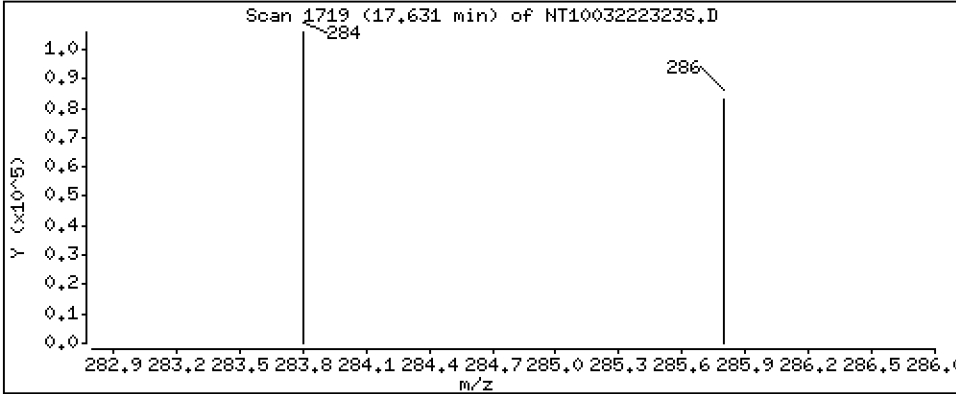
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 4.387 ug/L





Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

Volume Injected (uL): 1.0

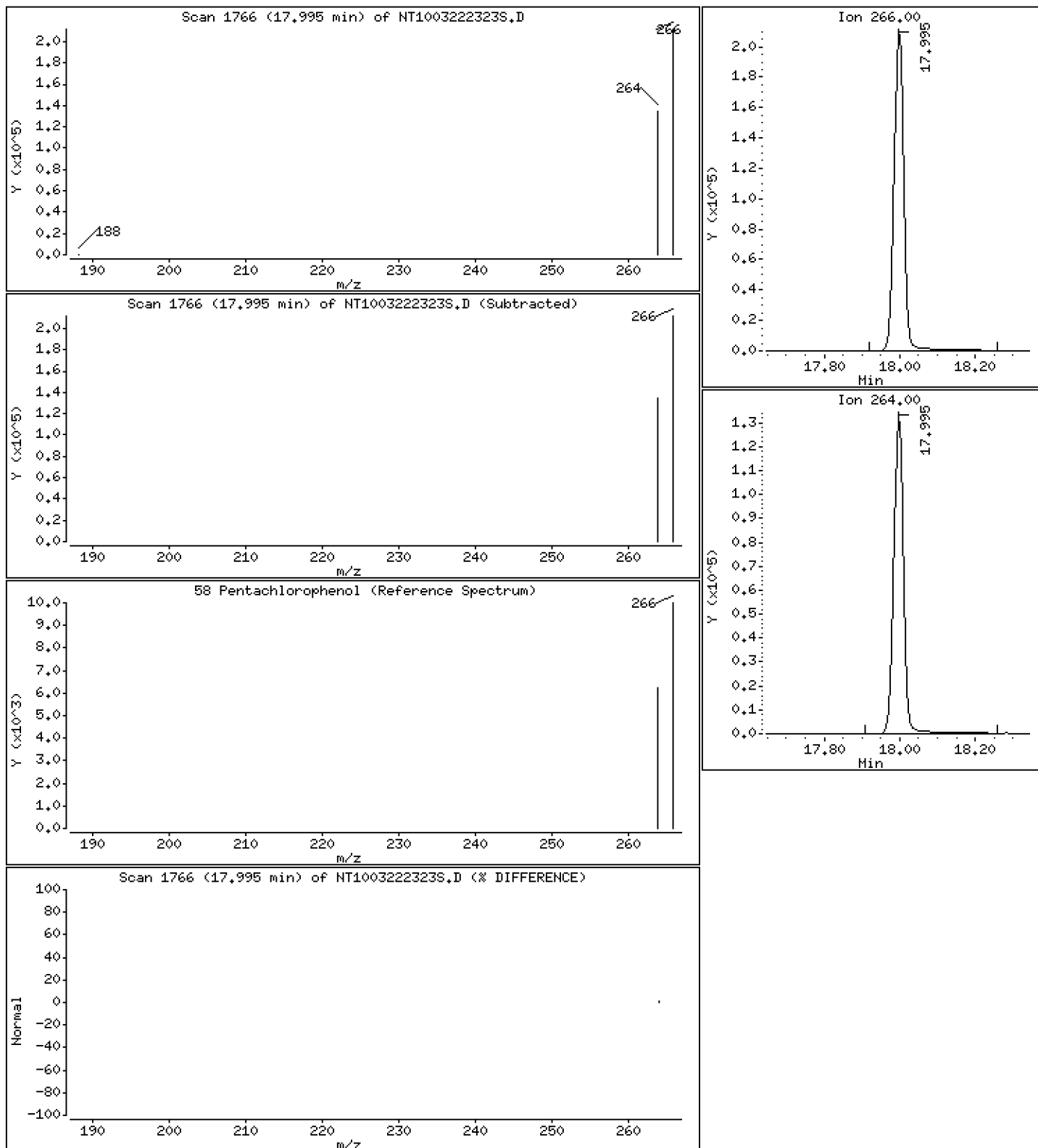
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 15,53 ug/L



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

Volume Injected (uL): 1.0

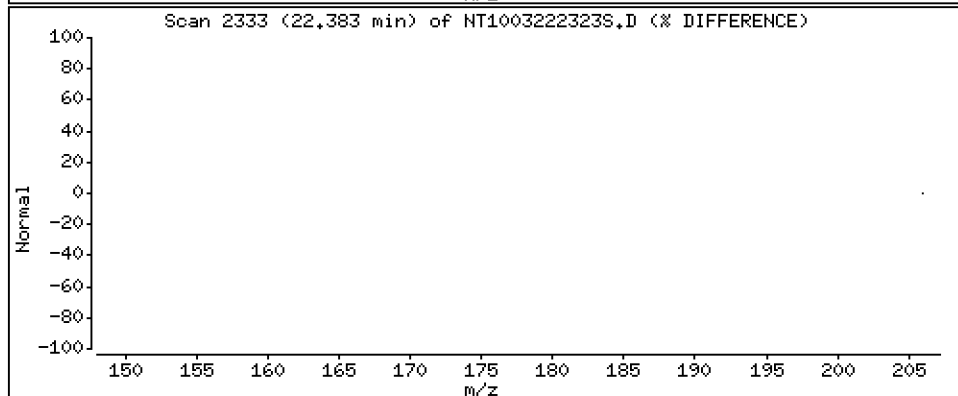
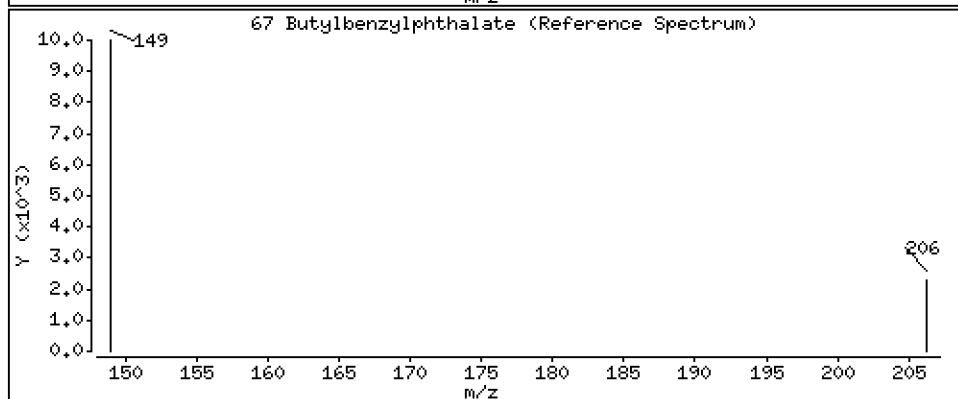
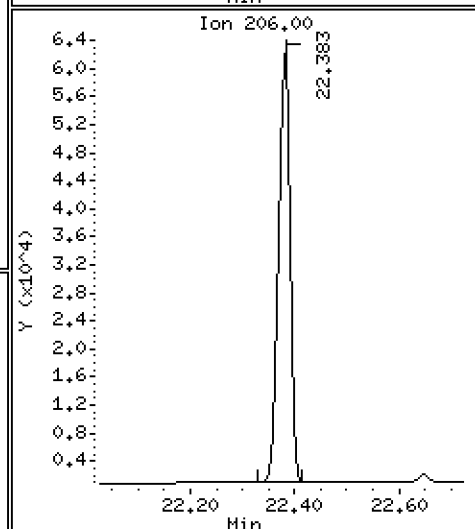
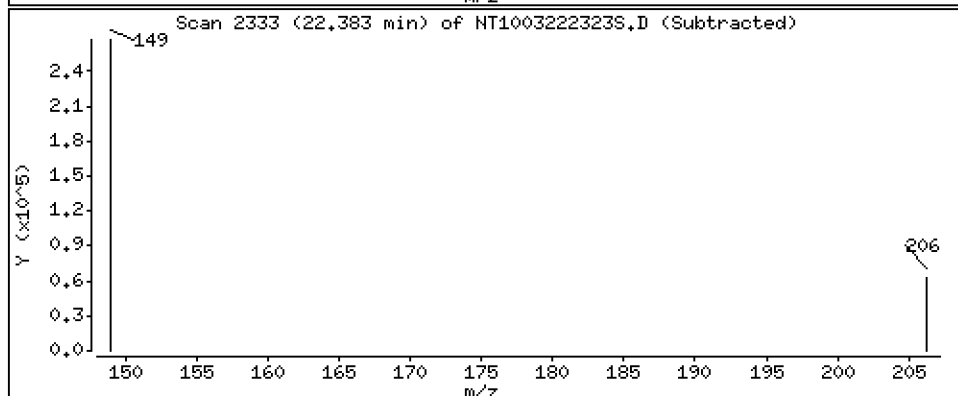
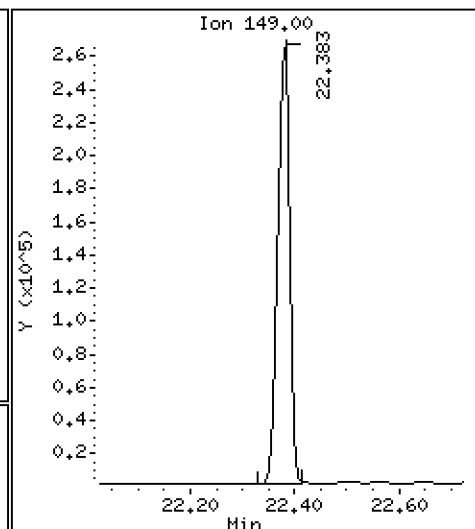
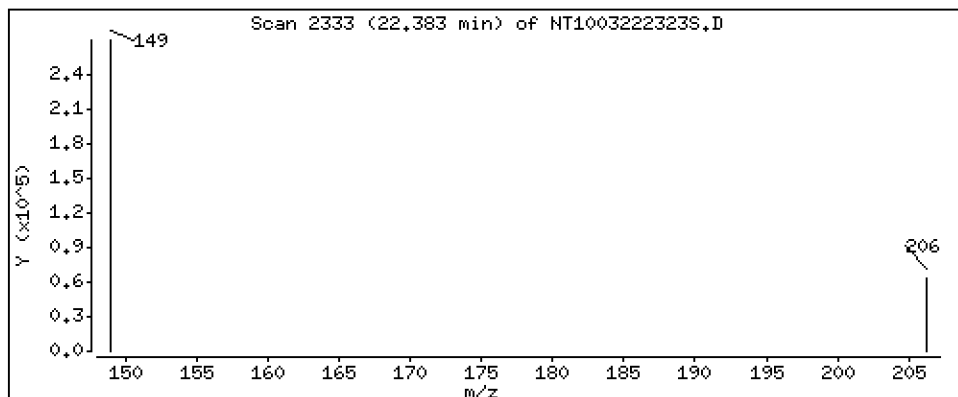
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,188 ug/L



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

Volume Injected (uL): 1.0

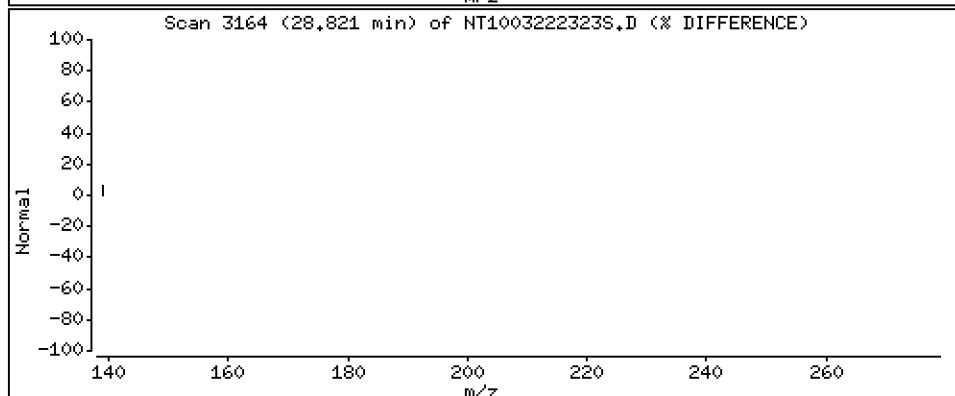
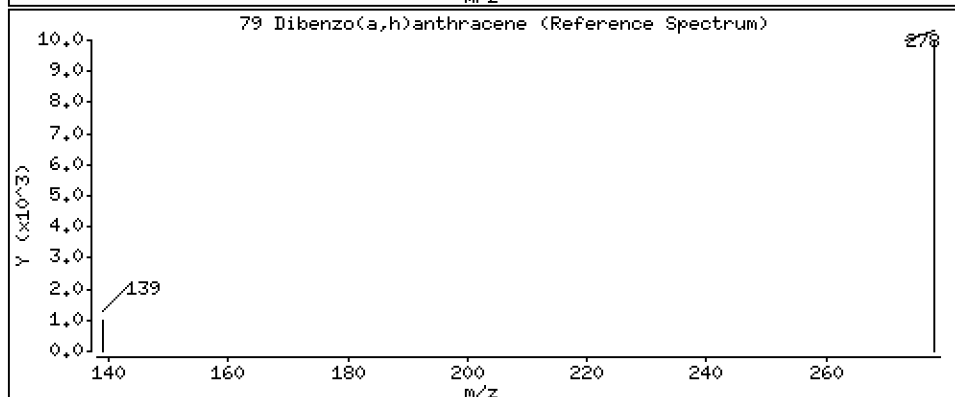
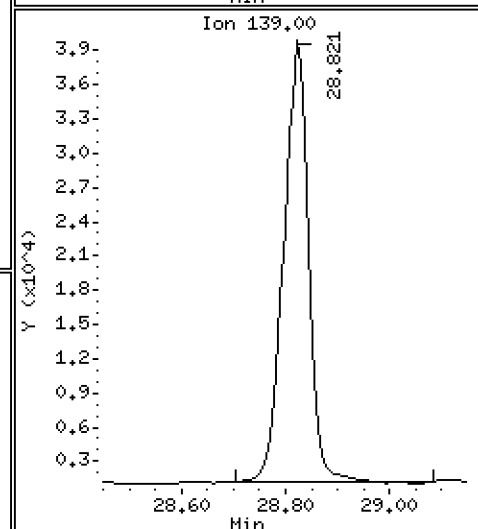
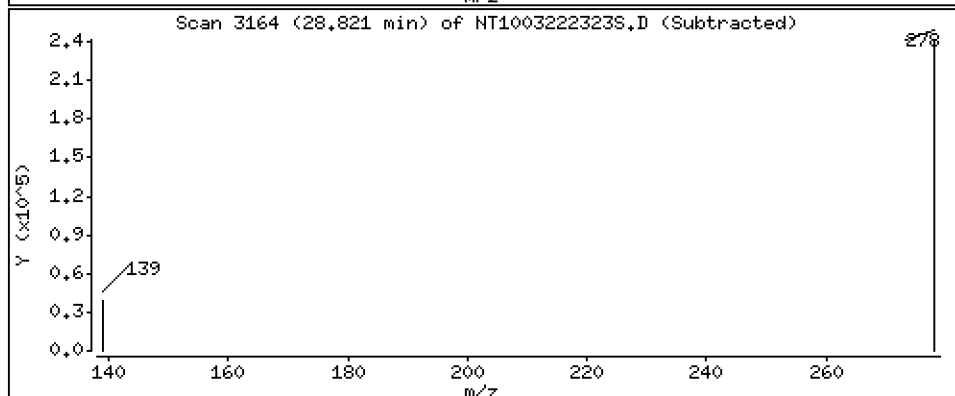
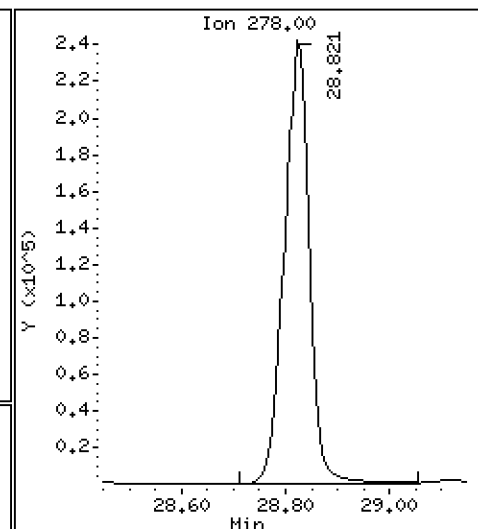
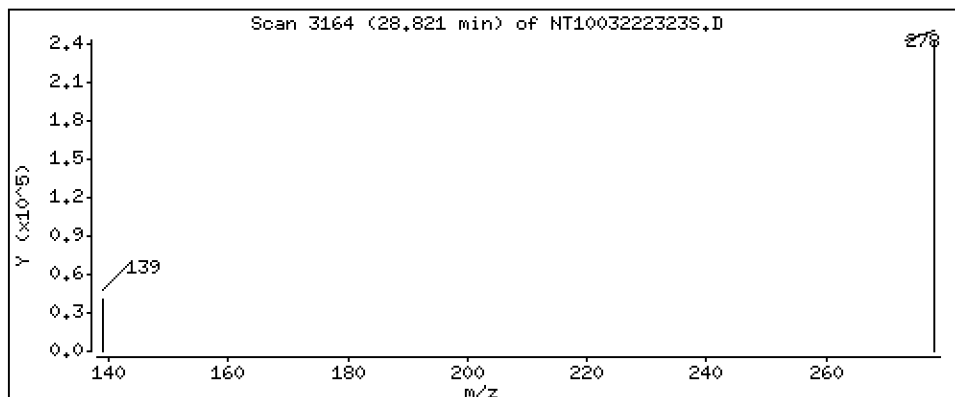
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 3,899 ug/L



Date : 23-MAR-2023 07:01

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-MSD1

Volume Injected (uL): 1.0

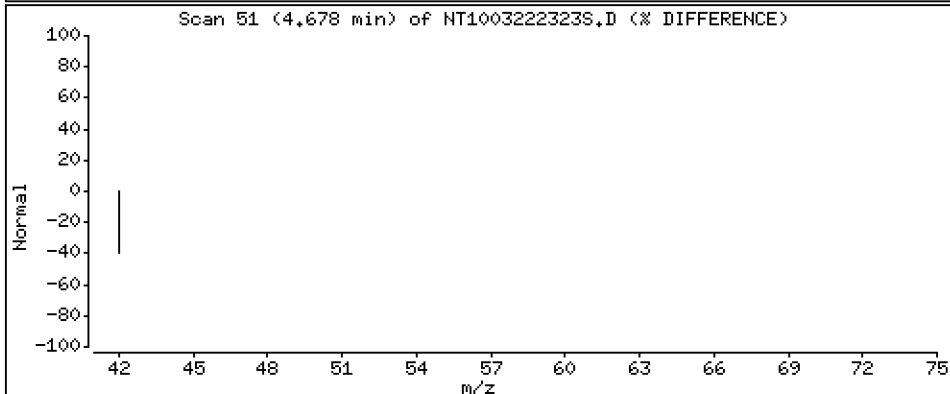
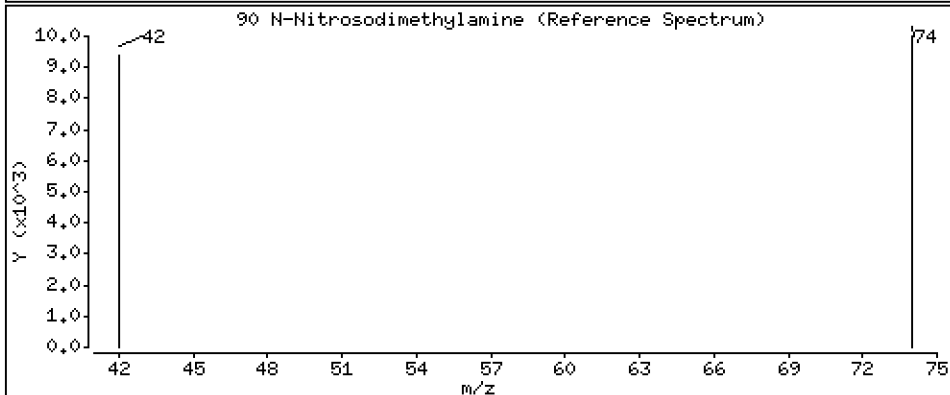
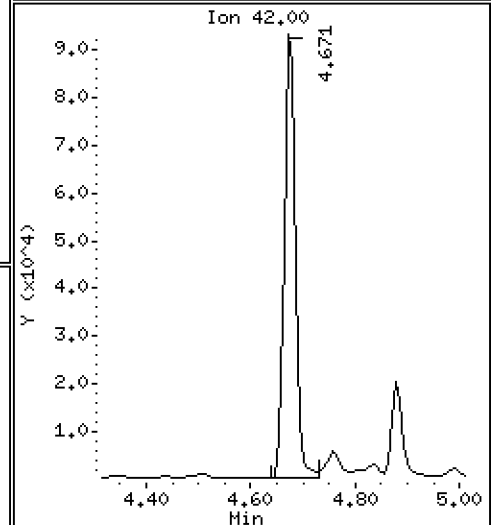
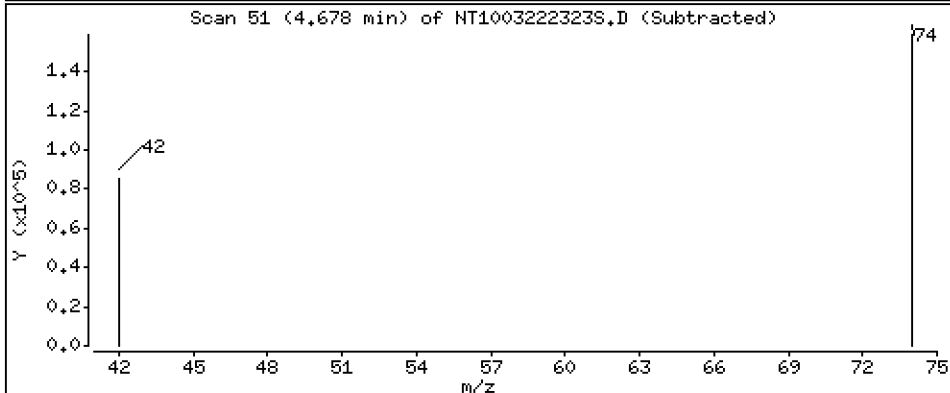
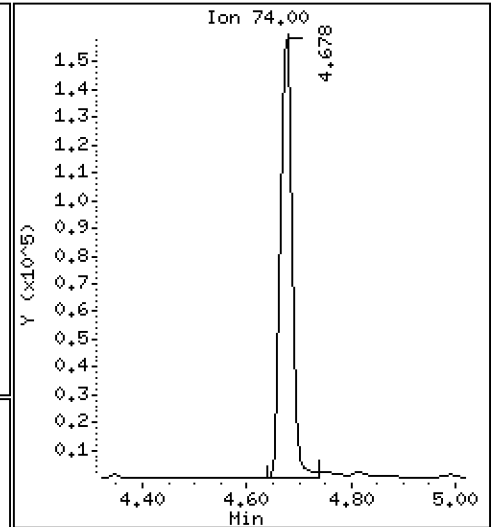
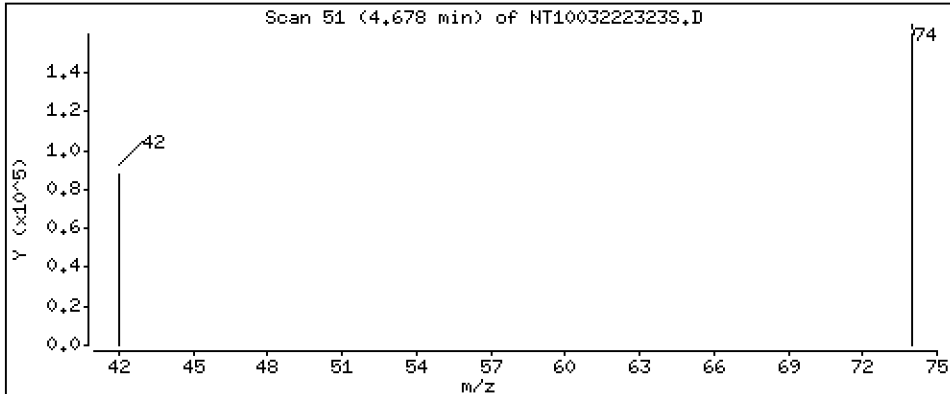
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 7.698 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222323S.D  
 Lab Smp Id: BLC0442-MSD2  
 Inj Date : 23-MAR-2023 07:01 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : BLC0442-MSD1  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Meth Date : 25-Mar-2023 16:11 yev Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 18  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: ORGDATA102

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT     | EXP RT         | REL RT | RESPONSE | CONCENTRATIONS |          |
|-------------------------------|-------|-----|--------|----------------|--------|----------|----------------|----------|
|                               |       |     |        |                |        |          | ON-COLUMN      | FINAL    |
|                               | MASS  |     |        |                |        |          | (ug/mL)        | ( ug/L)  |
| \$ 1 2-Fluorophenol           | 112   |     | 6.864  | 6.856 (0.755)  |        | 272767   | 5.57455        | 5.575(R) |
| 3 Phenol                      | 94    |     | 8.478  | 8.471 (0.933)  |        | 249062   | 3.71015        | 3.710    |
| 7 1,3-Dichlorobenzene         | 146   |     | 9.020  | 9.020 (0.992)  |        | 218502   | 3.47845        | 3.478    |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.089  | 9.090 (1.000)  |        | 161357   | 4.00000        |          |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.120  | 9.121 (1.003)  |        | 215791   | 3.55868        | 3.559    |
| 11 Benzyl alcohol             | 79    |     | 9.361  | 9.361 (1.030)  |        | 150956   | 3.87885        | 3.879    |
| 12 1,2-Dichlorobenzene        | 146   |     | 9.477  | 9.470 (1.043)  |        | 213697   | 3.58347        | 3.583    |
| 13 2-Methylphenol             | 108   |     | 9.594  | 9.586 (1.056)  |        | 142582   | 3.06528        | 3.065    |
| 15 4-Methylphenol             | 108   |     | 9.873  | 9.858 (1.086)  |        | 179459   | 3.71284        | 3.713    |
| 16 N-Nitroso-di-n-propylamine | 70    |     | 9.920  | 9.920 (1.091)  |        | 133164   | 3.89568        | 3.896    |
| 22 2,4-Dimethylphenol         | 107   |     | 10.906 | 10.906 (0.942) |        | 152479   | 3.03810        | 3.038    |
| 24 Benzoic acid               | 105   |     | 11.135 | 11.033 (0.962) |        | 791122   | 25.6068        | 25.61    |
| 26 1,2,4-Trichlorobenzene     | 180   |     | 11.492 | 11.492 (0.993) |        | 190208   | 3.76734        | 3.767    |
| * 27 Naphthalene-d8           | 136   |     | 11.577 | 11.577 (1.000) |        | 580639   | 4.00000        |          |
| 30 Hexachlorobutadiene        | 225   |     | 11.979 | 11.979 (1.035) |        | 122091   | 3.97743        | 3.977    |
| 39 Dimethylphthalate          | 163   |     | 14.711 | 14.711 (0.967) |        | 444593   | 4.68602        | 4.686    |
| * 42 Acenaphthene-d10         | 162   |     | 15.206 | 15.206 (1.000) |        | 300651   | 4.00000        |          |
| 50 Diethylphthalate           | 149   |     | 16.180 | 16.172 (1.064) |        | 523613   | 5.32734        | 5.327    |
| 54 N-Nitrosodiphenylamine     | 169   |     | 16.566 | 16.558 (0.907) |        | 314257   | 3.71654        | 3.717    |
| 57 Hexachlorobenzene          | 284   |     | 17.631 | 17.631 (0.966) |        | 166071   | 4.38734        | 4.387    |

| Compounds                 | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                           |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>( ug/L) |
| 58 Pentachlorophenol      | 266       | 17.995 | 17.995 | (0.986) | 359636   | 15.5291              | 15.53            |
| * 59 Phenanthrene-d10     | 188       | 18.258 | 18.258 | (1.000) | 630227   | 4.00000              |                  |
| \$ 66 Terphenyl-d14       | 244       | 21.438 | 21.438 | (0.918) | 482484   | 5.34561              | 5.346(R)         |
| 67 Butylbenzylphthalate   | 149       | 22.382 | 22.375 | (0.958) | 401666   | 5.18763              | 5.188            |
| * 69 Chrysene-d12         | 240       | 23.358 | 23.350 | (1.000) | 553948   | 4.00000              |                  |
| * 77 Perylene-d12         | 264       | 26.052 | 26.037 | (1.000) | 656455   | 4.00000              |                  |
| 79 Dibenzo(a,h)anthracene | 278       | 28.821 | 28.798 | (1.106) | 821518   | 3.89917              | 3.899            |
| 90 N-Nitrosodimethylamine | 74        | 4.678  | 4.670  | (0.515) | 238887   | 7.69767              | 7.698            |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT1003222323S.D  
 Lab Smp Id: BLC0442-MSD2  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Misc Info:

Calibration Date: 23-MAR-2023  
 Calibration Time: 03:52  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 140507   | 70254      | 281014  | 161357 | 14.84 |
| 27 Naphthalene-d8   | 499190   | 249595     | 998380  | 580639 | 16.32 |
| 42 Acenaphthene-d10 | 250303   | 125152     | 500606  | 300651 | 20.11 |
| 59 Phenanthrene-d10 | 496896   | 248448     | 993792  | 630227 | 26.83 |
| 69 Chrysene-d12     | 465837   | 232919     | 931674  | 553948 | 18.91 |
| 77 Perylene-d12     | 551078   | 275539     | 1102156 | 656455 | 19.12 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.09     | 8.59     | 9.59  | 9.09   | -0.00 |
| 27 Naphthalene-d8   | 11.58    | 11.08    | 12.08 | 11.58  | -0.00 |
| 42 Acenaphthene-d10 | 15.21    | 14.71    | 15.71 | 15.21  | -0.00 |
| 59 Phenanthrene-d10 | 18.26    | 17.76    | 18.76 | 18.26  | -0.00 |
| 69 Chrysene-d12     | 23.35    | 22.85    | 23.85 | 23.36  | 0.03  |
| 77 Perylene-d12     | 26.04    | 25.54    | 26.54 | 26.05  | 0.06  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222323S.D

Lab ID: BLC0442-MSD2

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 23-MAR-2023 07:01

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV RRT | DELTA  | COMPOUND     |
|-------|---------|--------|--------------|
| 0.962 | 0.953   | 0.0088 | Benzoic acid |

RRT check based on Ccal File: SIM.b/NT1003222318S.D

On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*





**STANDARD REFERENCE MATERIAL RECOVERY**  
**EPA 8270E-SIM**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Matrix:** Solid

**Laboratory ID:** BLC0442-SRM2

**Batch:** BLC0442

**Initial/Final:** 1 g / 1 mL

**Preparation:** EPA 3546 (Microwave)

**Analyzed:** 03/22/2023 22:10

**Standard ID:** K003477

**Expires:** 01/31/2024

**Standard Lot#:** CRM 143 (LRAC8918)

**Description:** CRM 143 BNAs - Sandy Loam

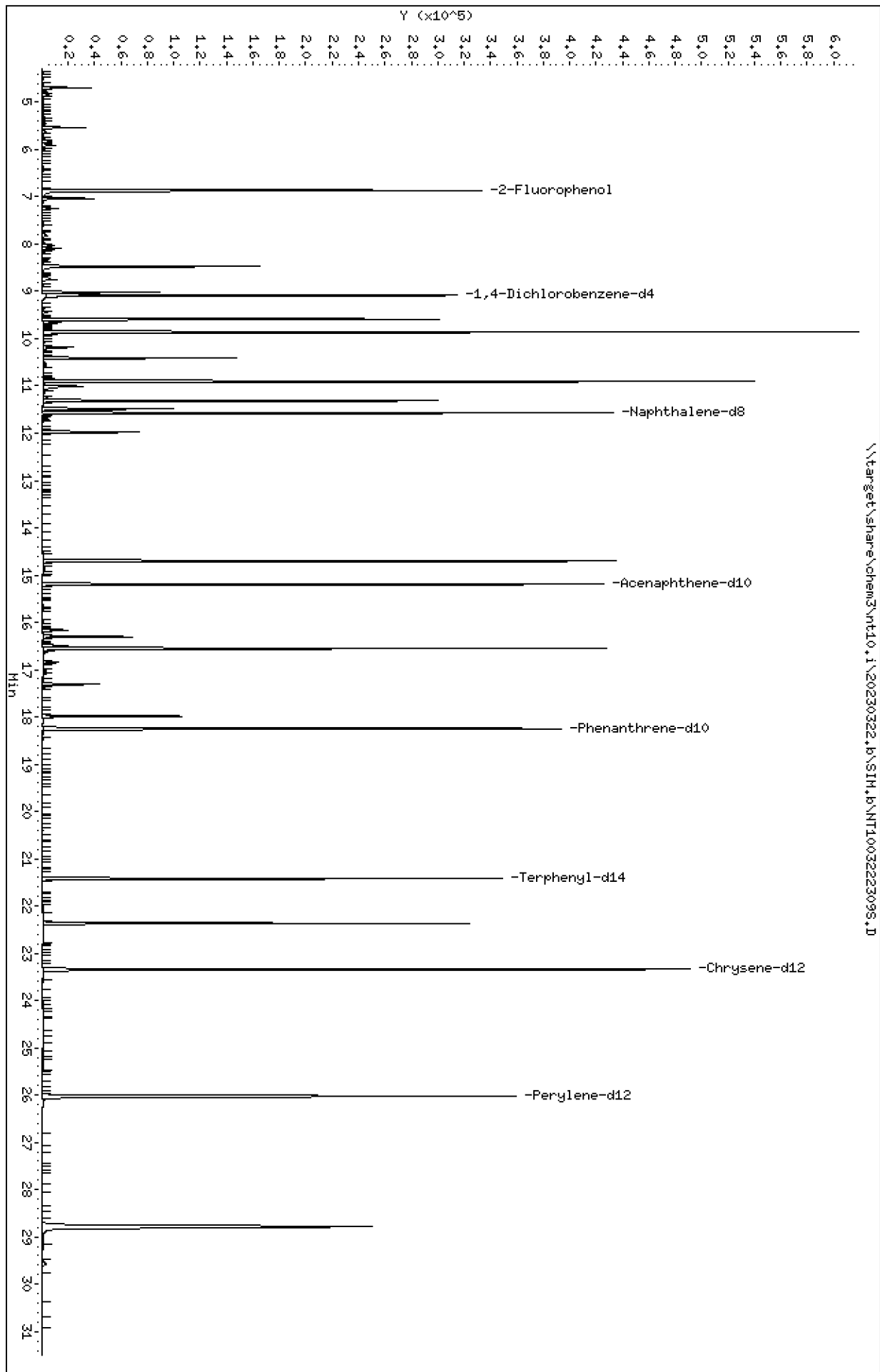
| ANALYTE                | TRUE<br>(ug/kg wet) | FOUND<br>(ug/kg wet) | MDL  | MRL  | Q | SRM<br>%<br>REC. | QC<br>LIMITS<br>REC. |
|------------------------|---------------------|----------------------|------|------|---|------------------|----------------------|
| 2,4-Dimethylphenol     | 6357.0              | 5900                 | 21.7 | 200  |   | 92.7             | 0 - 220              |
| 1,2,4-Trichlorobenzene | 1477.0              | 1280                 | 26.8 | 50.0 |   | 86.8             | 10 - 193             |
| N-Nitrosodiphenylamine | 2854.0              | 3640                 | 13.1 | 50.0 |   | 128              | 40 - 160             |
| Pentachlorophenol      | 3411.0              | 4970                 | 21.3 | 200  |   | 146              | 10 - 206             |

\* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230322.16\SIM.B\NT100322309S.D  
Date: 22-MAR-2023 22:10  
Client ID:  
Sample Info: BLC0442-SRM1  
Volume Injected (uL): 1.0  
Column phase: ZB-5msi

Instrument: nt10.1  
Operator: JGR  
Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\SIM.B\NT100322309S.D



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

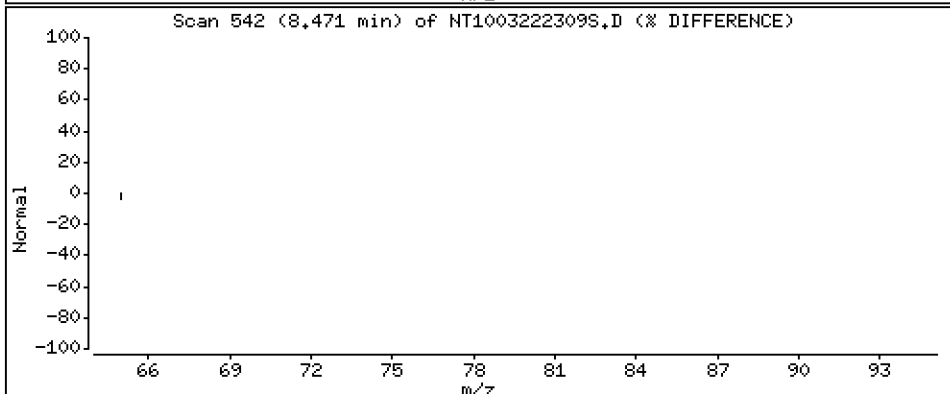
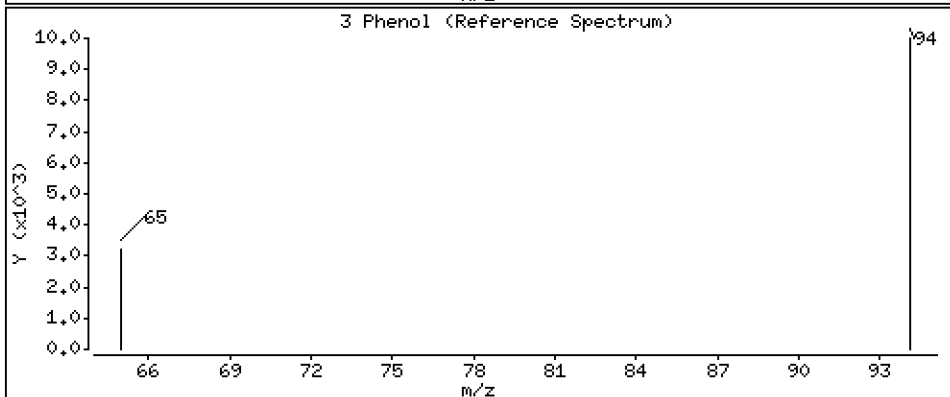
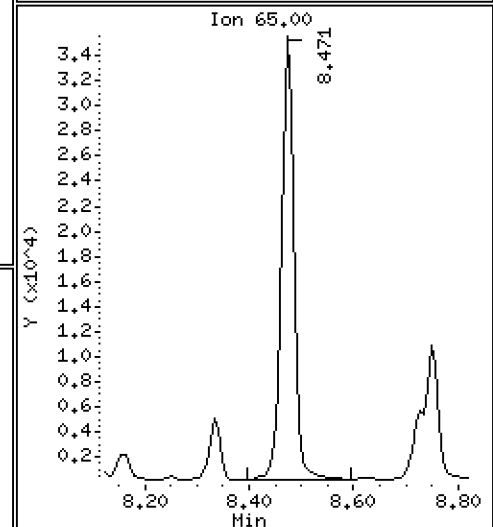
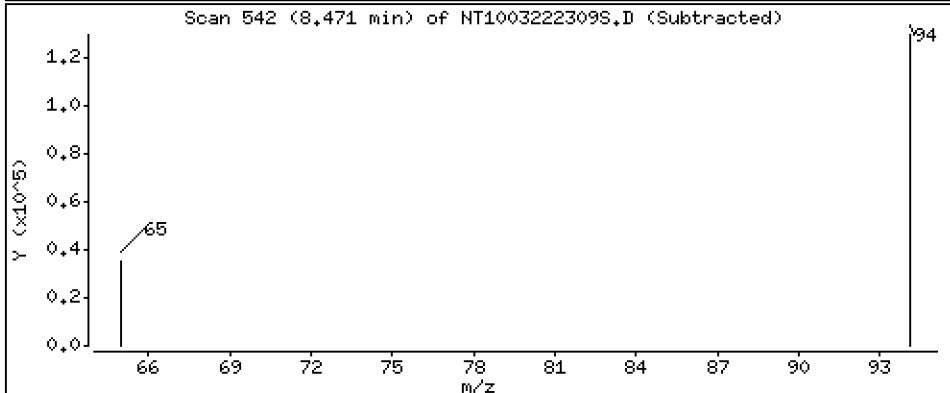
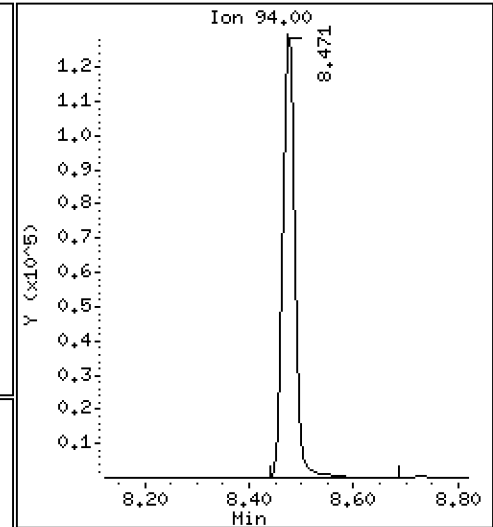
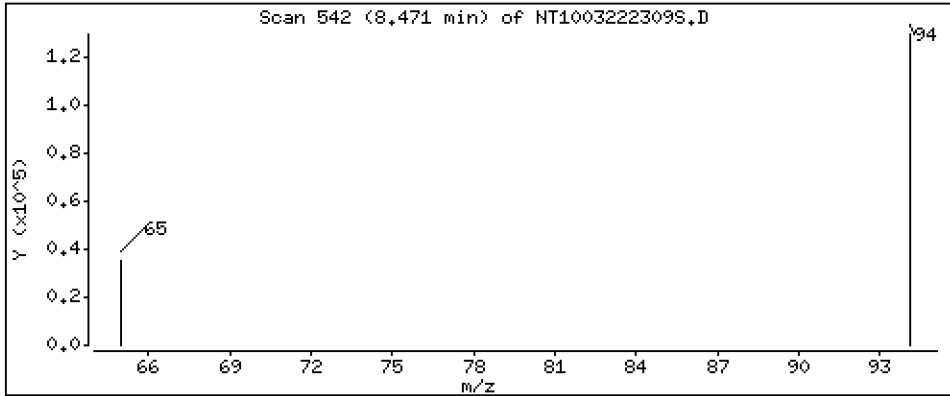
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 2,470 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

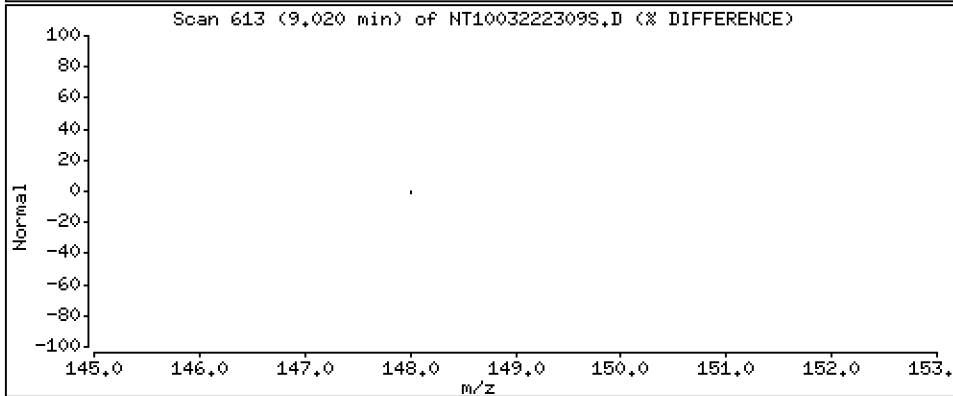
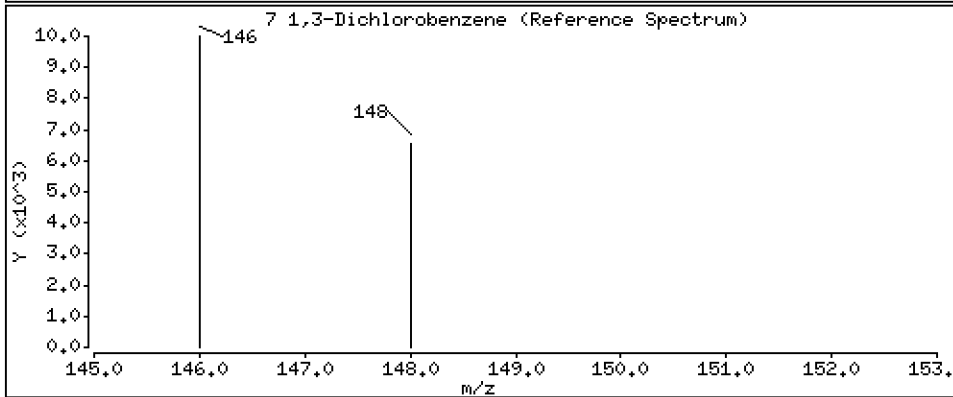
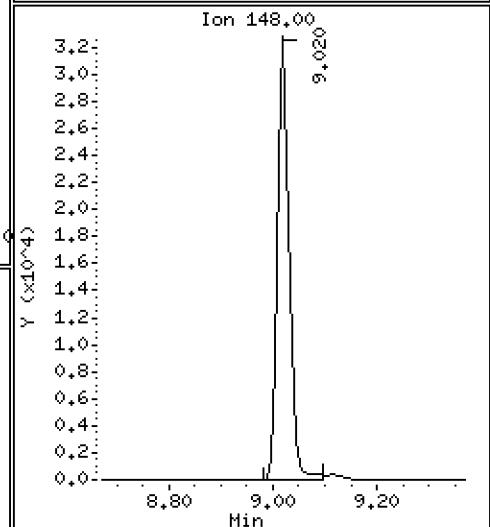
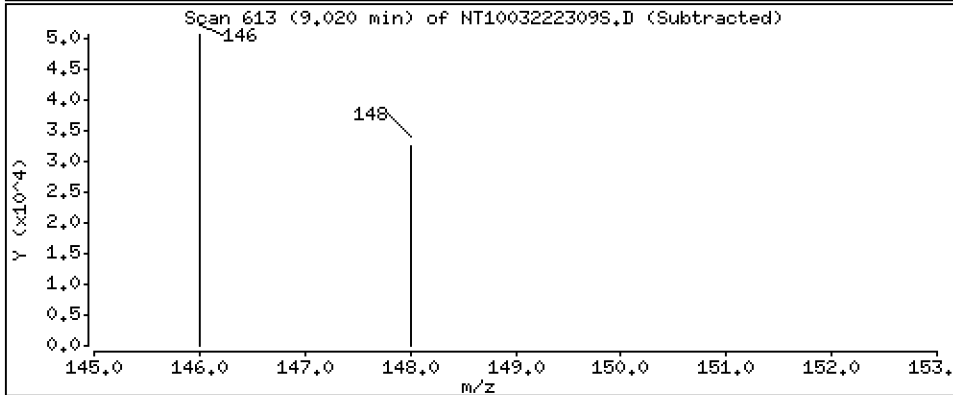
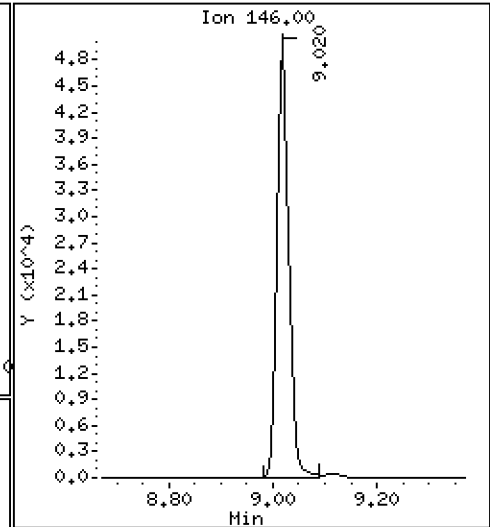
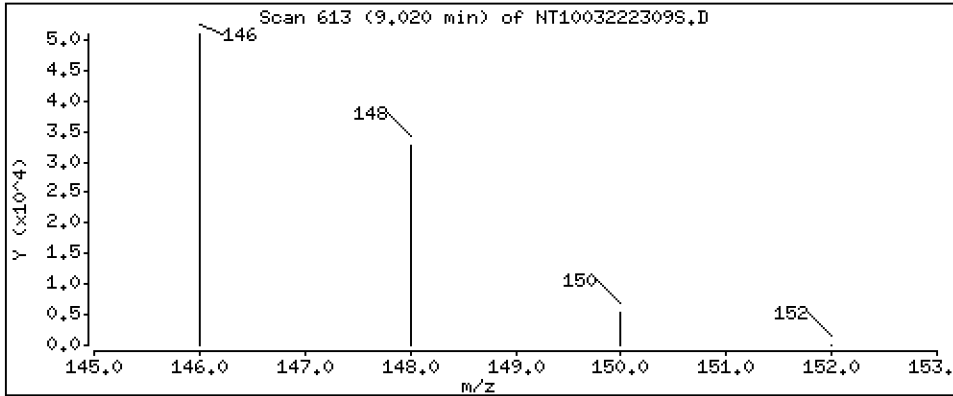
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 1.010 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

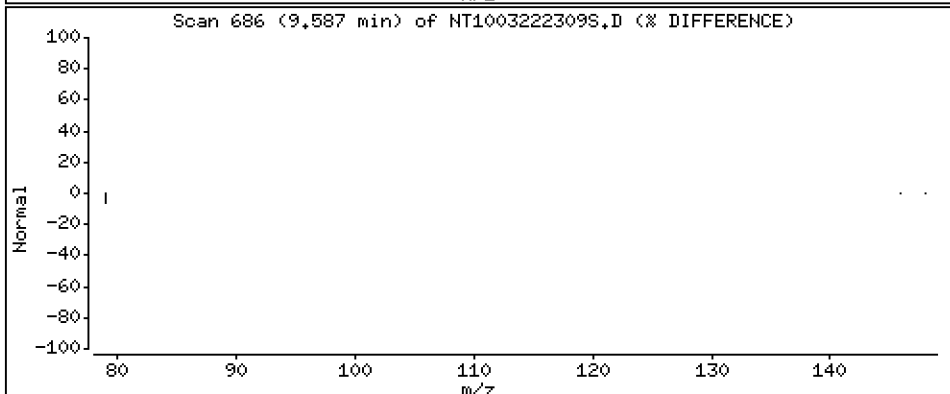
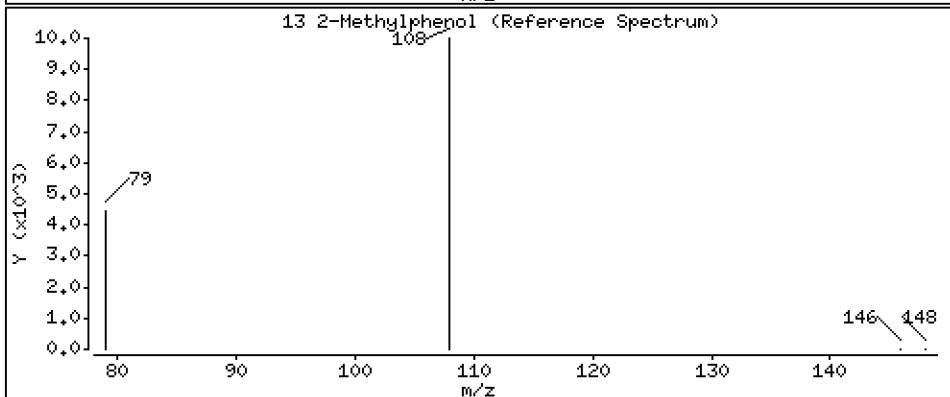
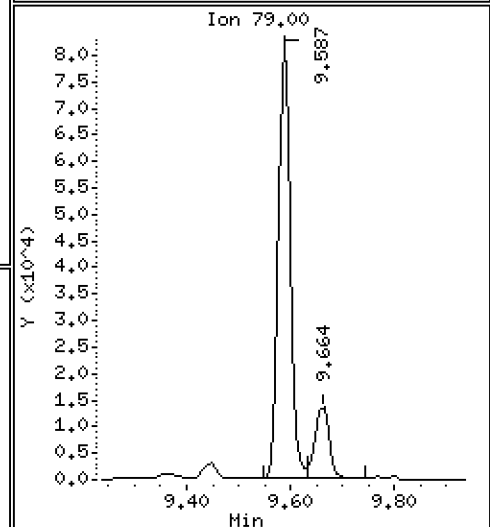
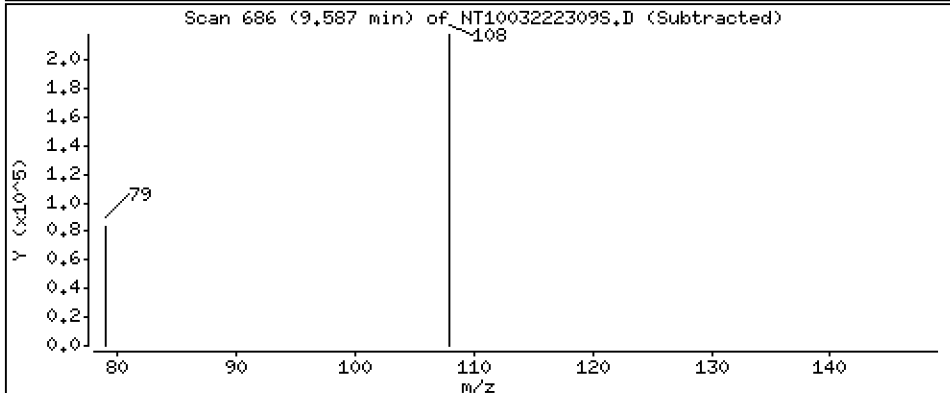
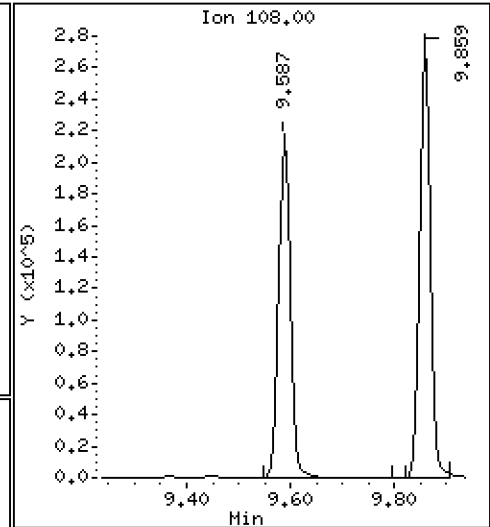
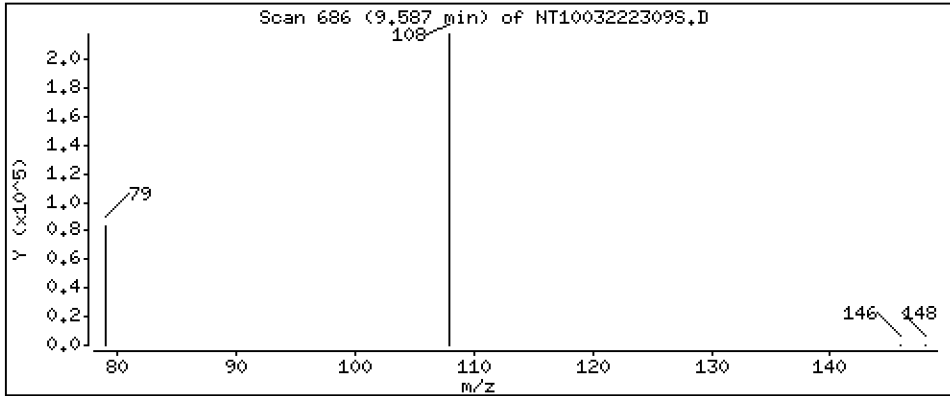
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 5.690 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

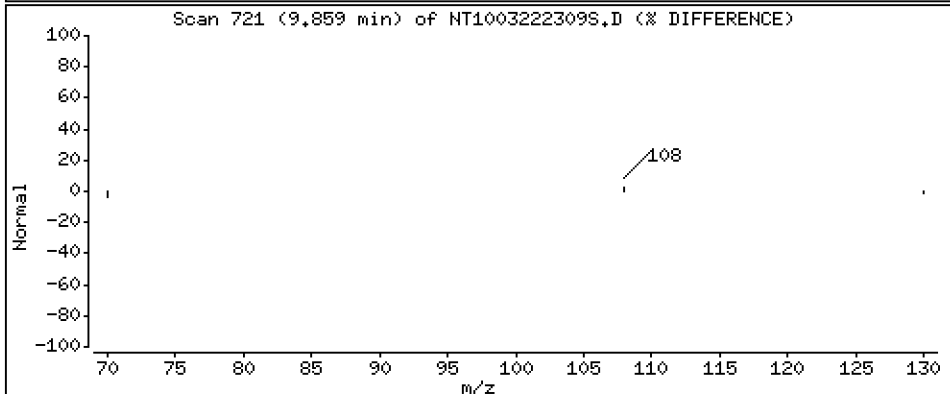
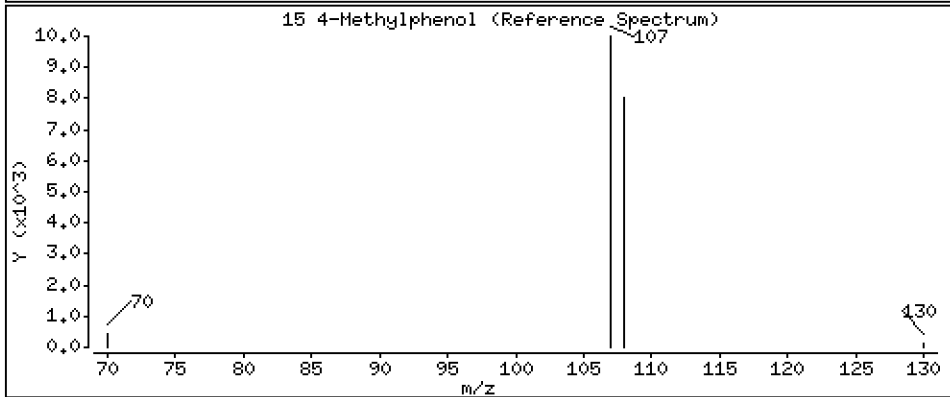
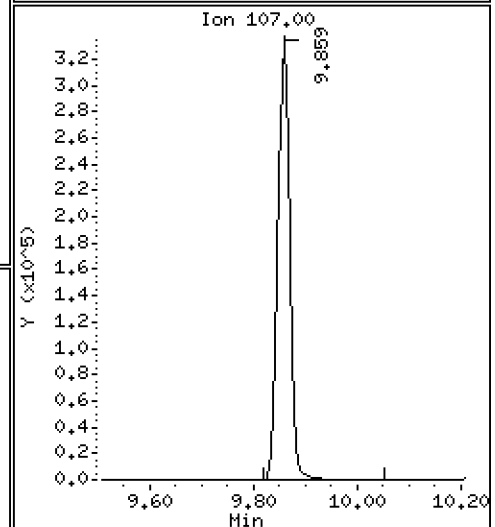
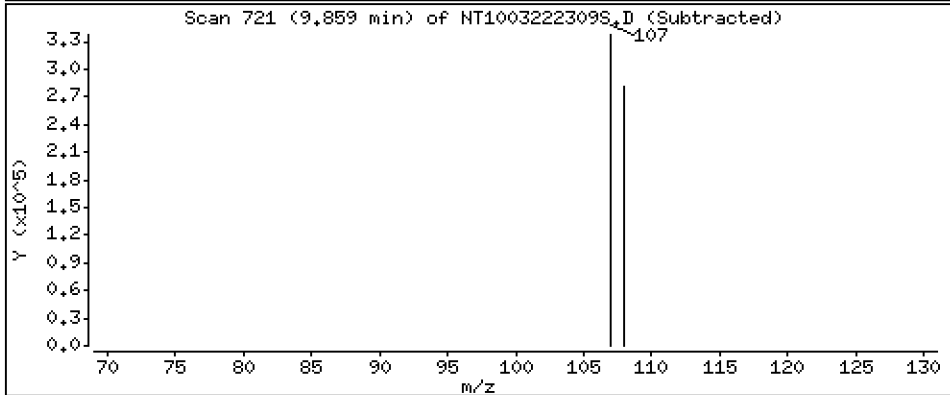
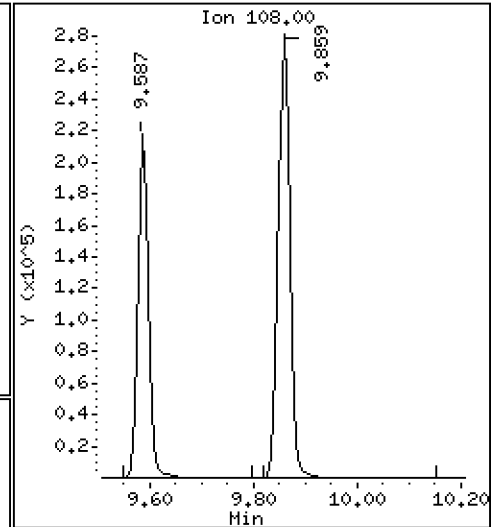
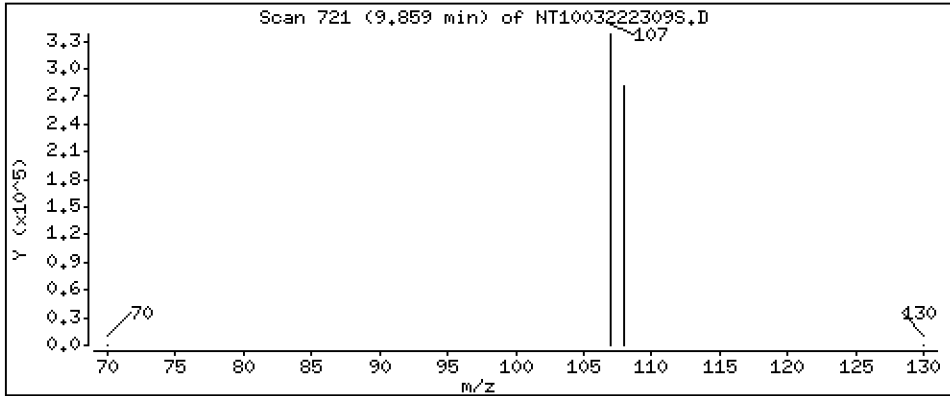
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 7.137 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

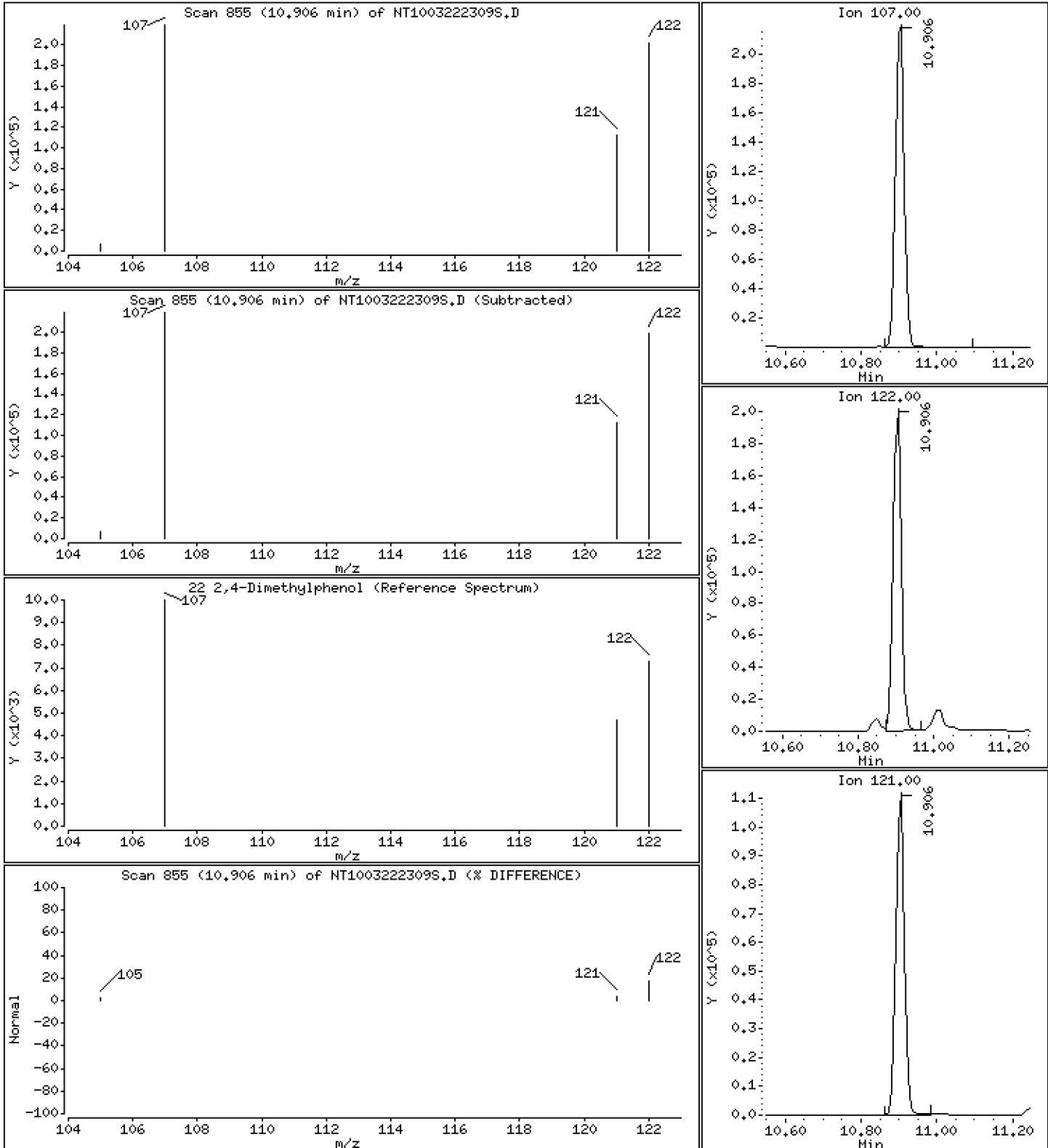
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 5.896 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

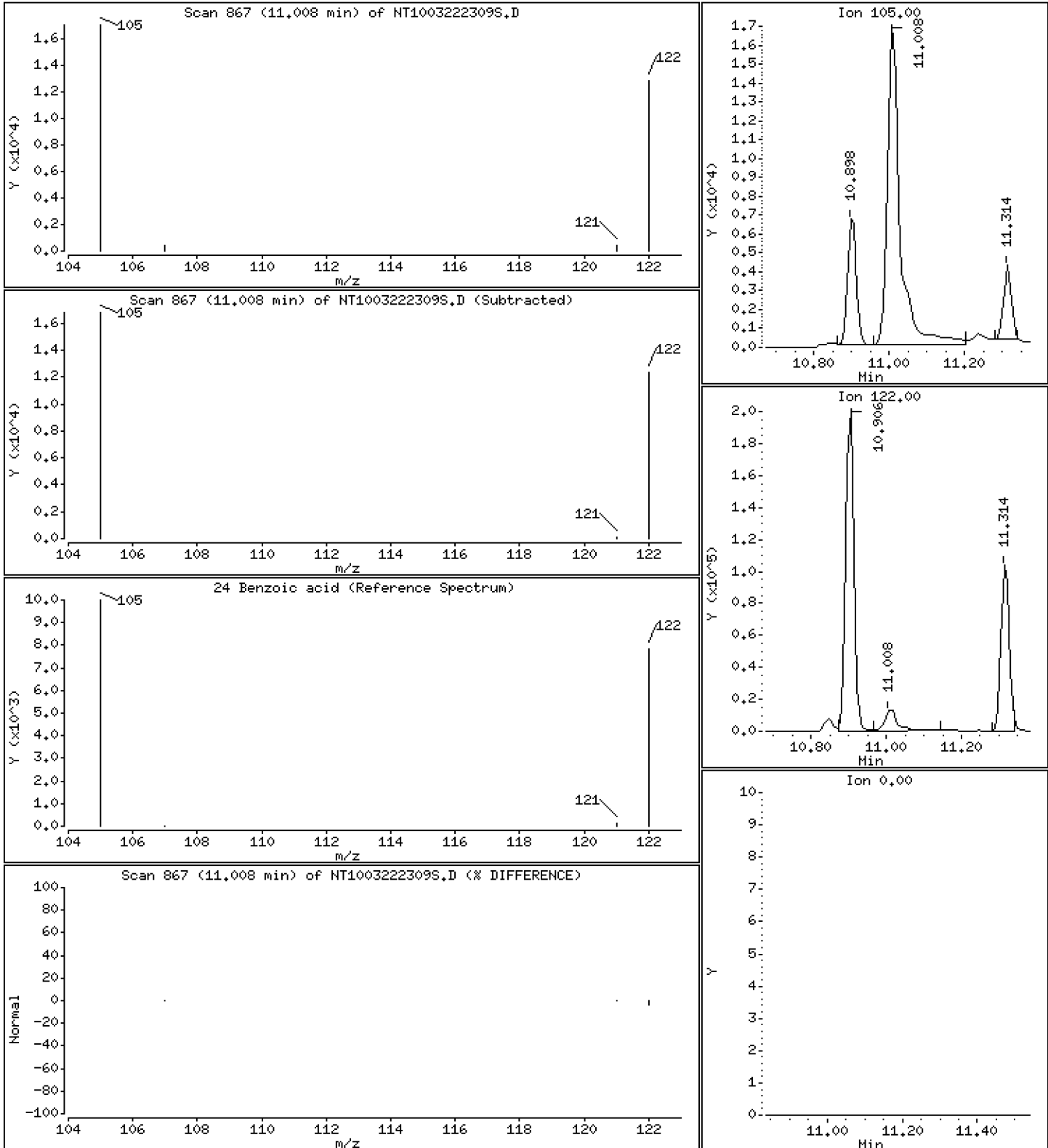
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 1,212 ug/L





Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

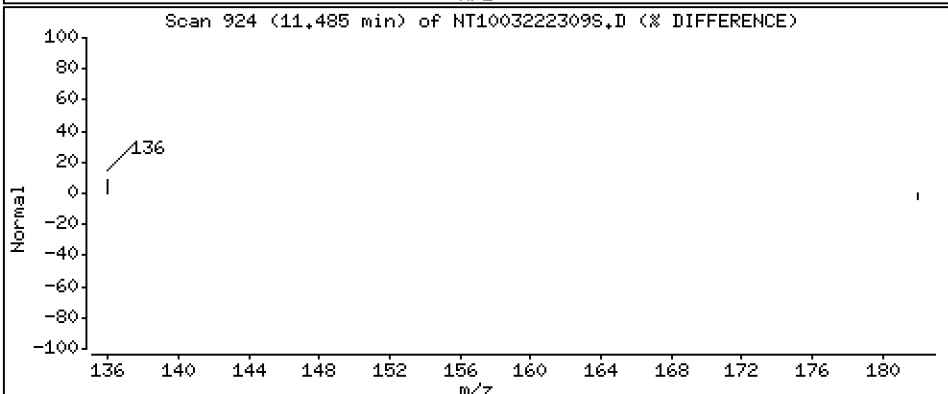
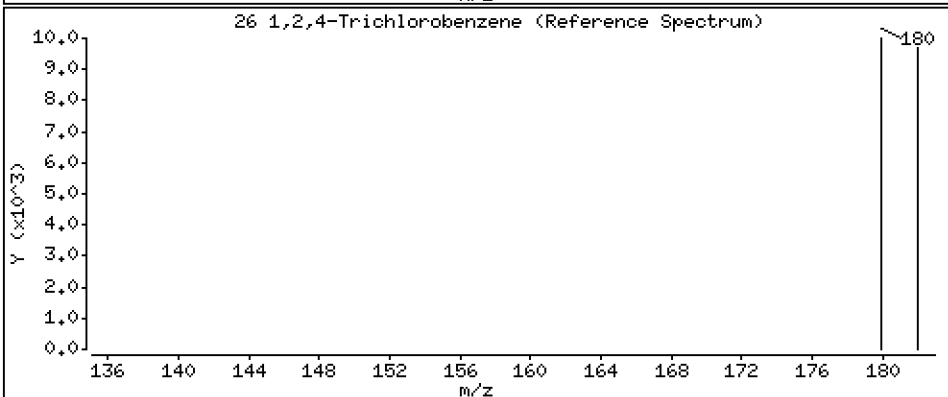
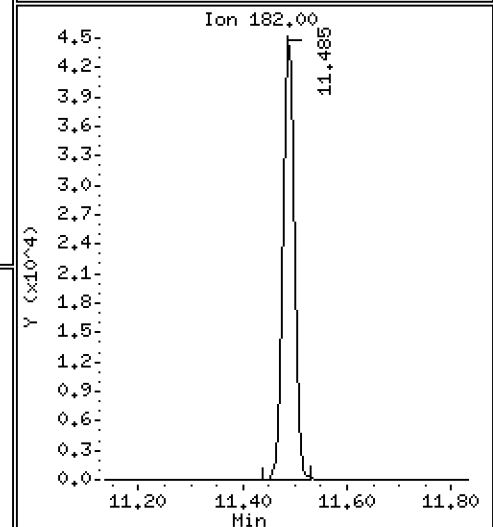
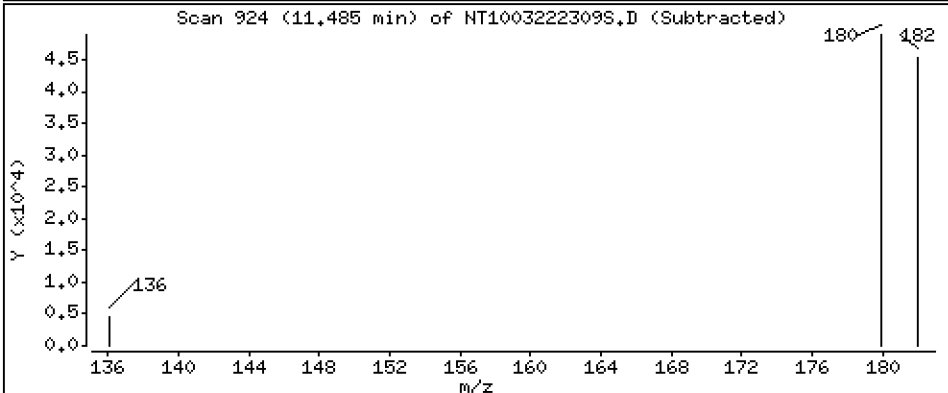
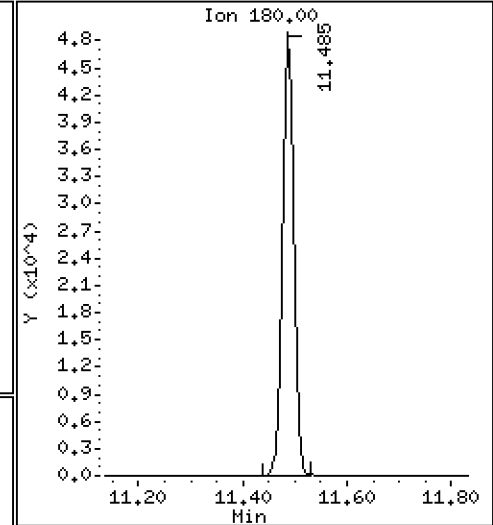
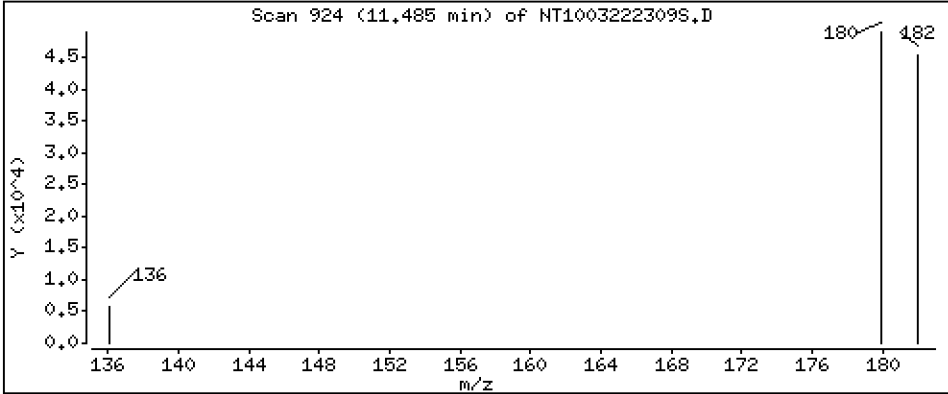
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 1,282 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

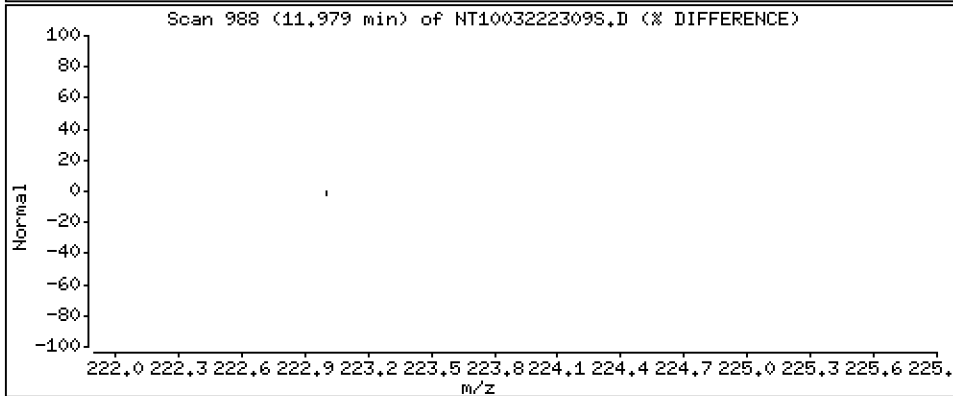
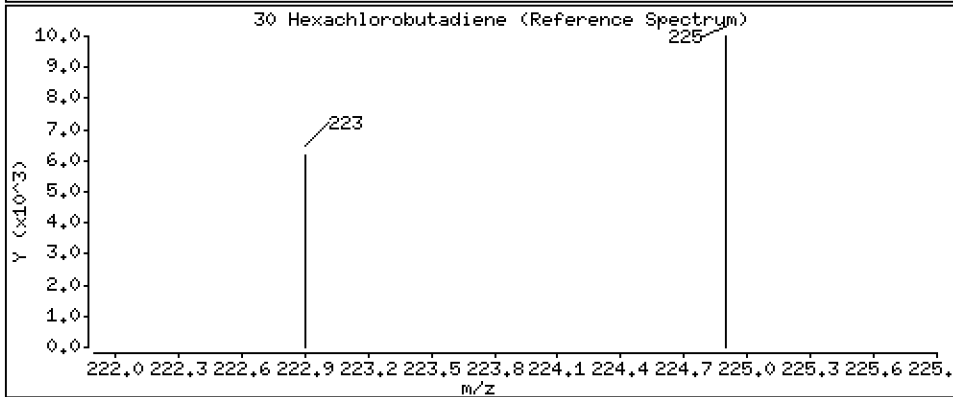
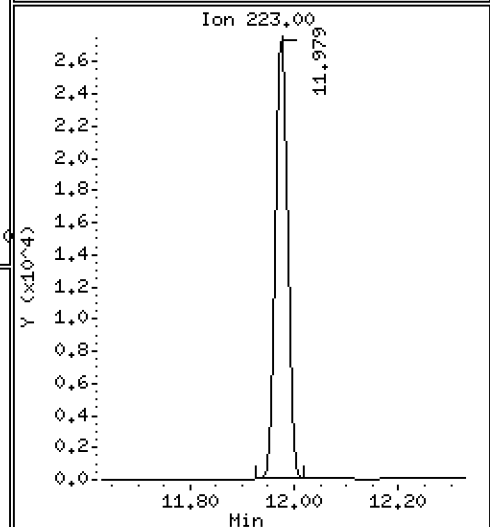
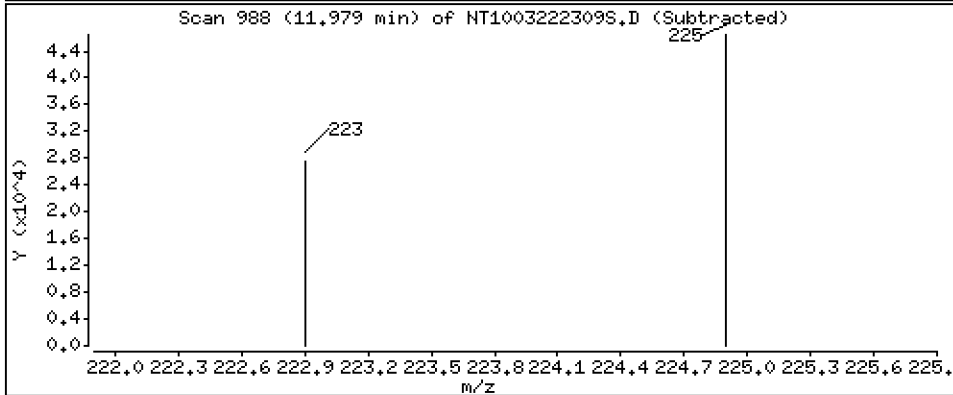
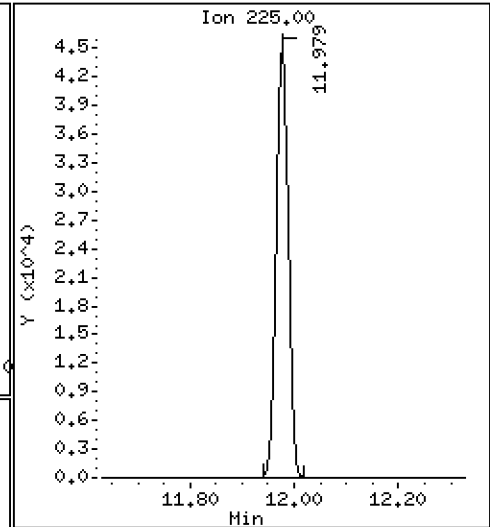
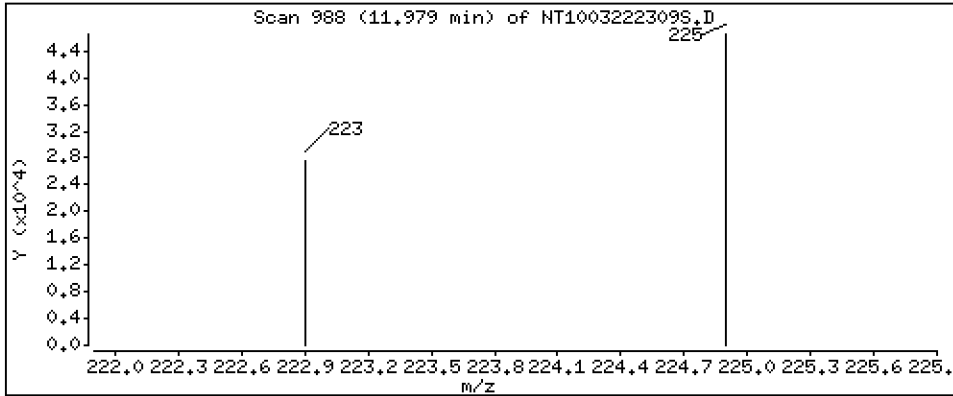
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 1,882 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

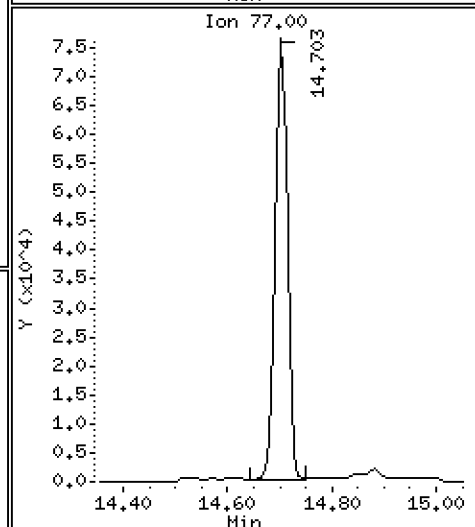
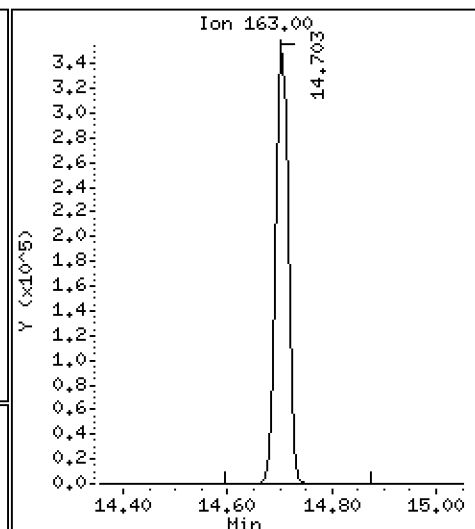
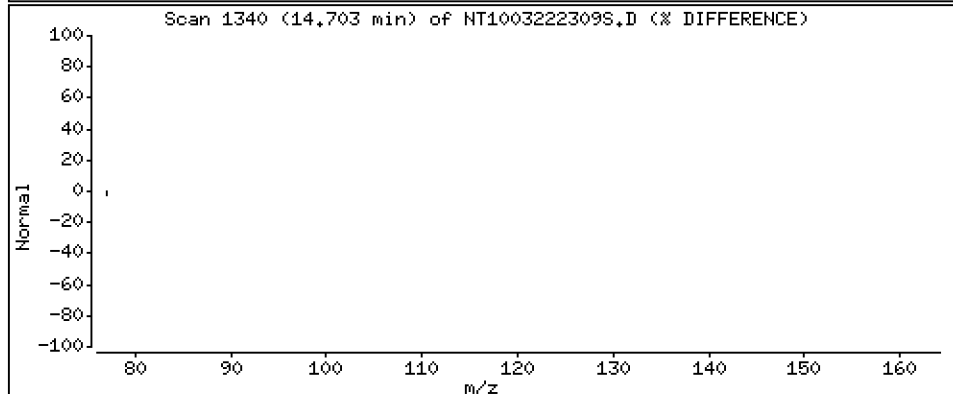
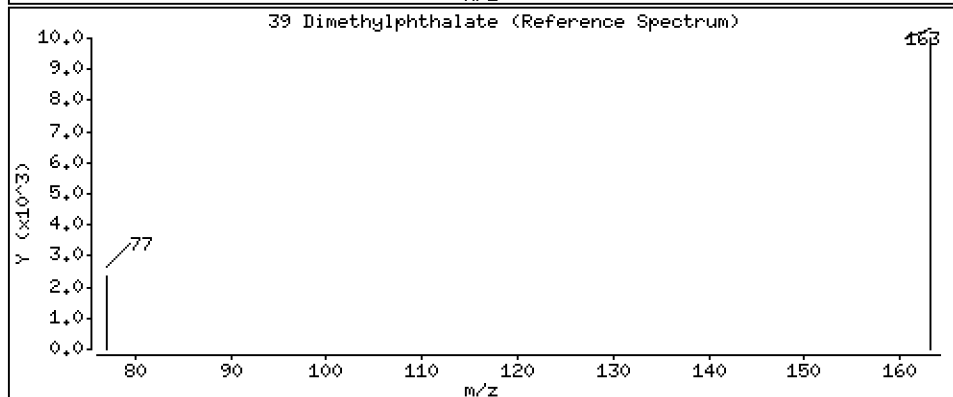
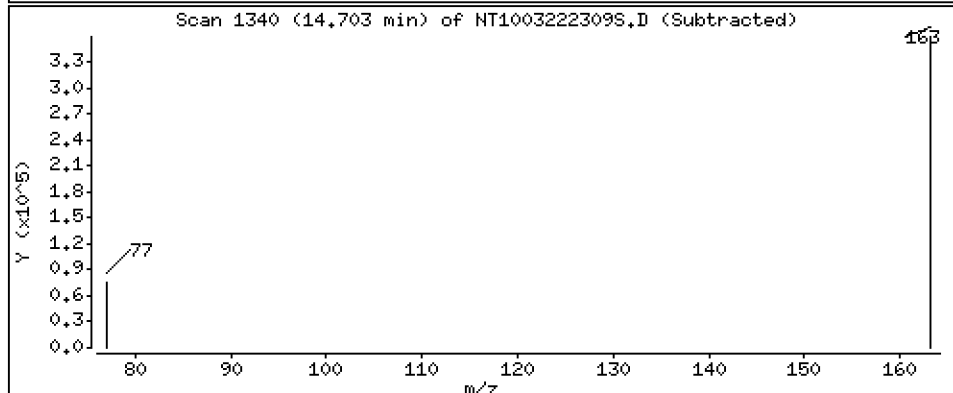
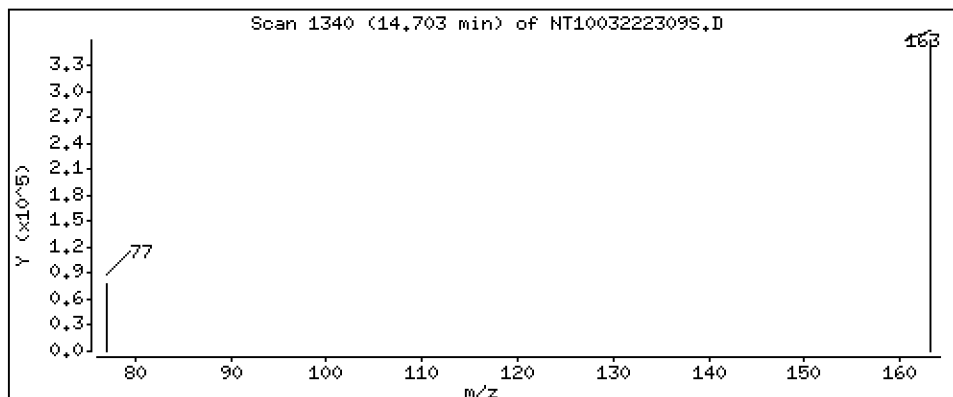
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,229 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

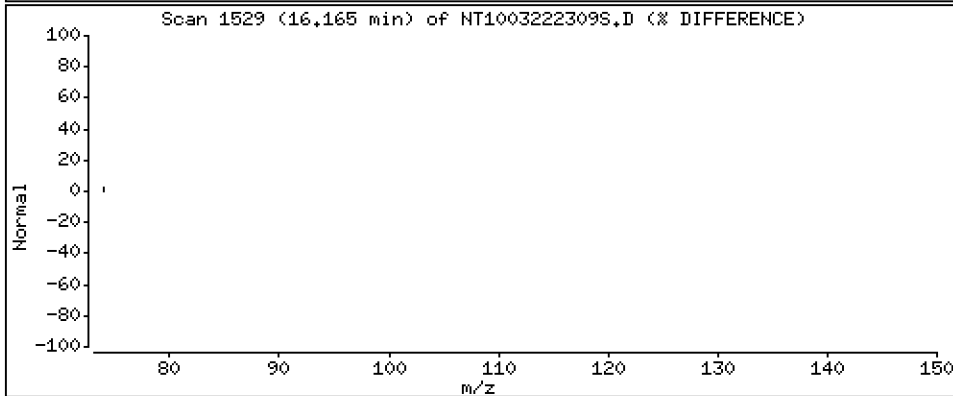
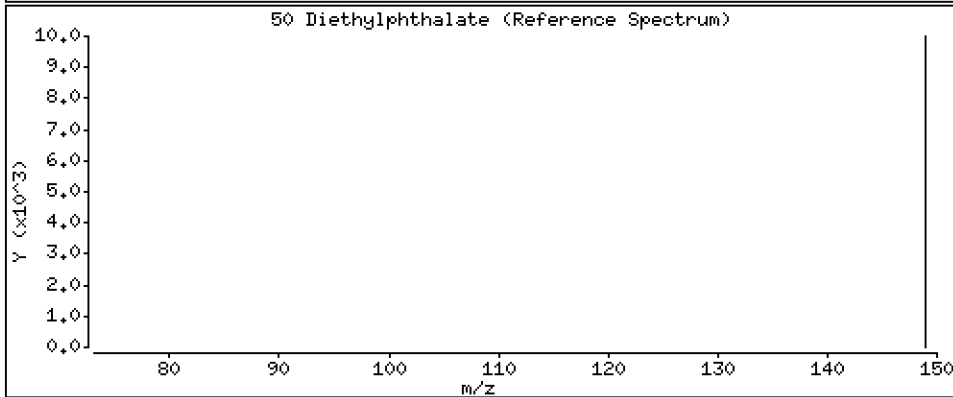
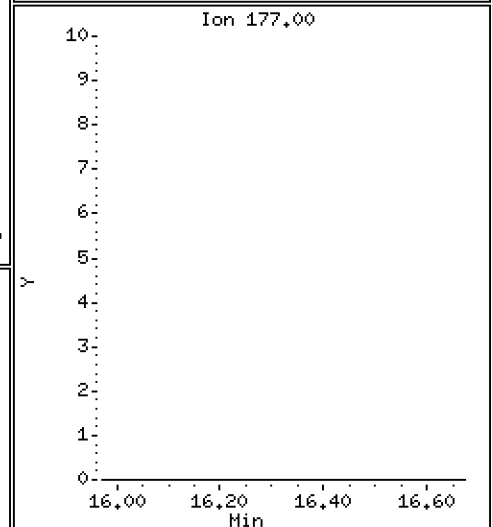
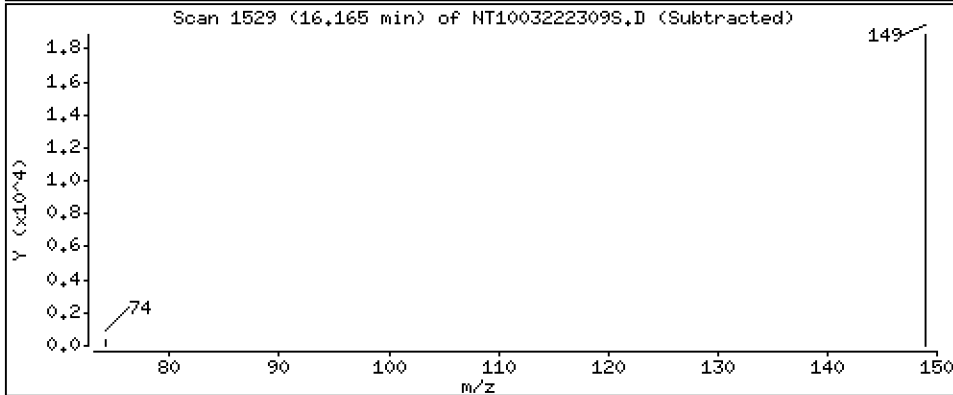
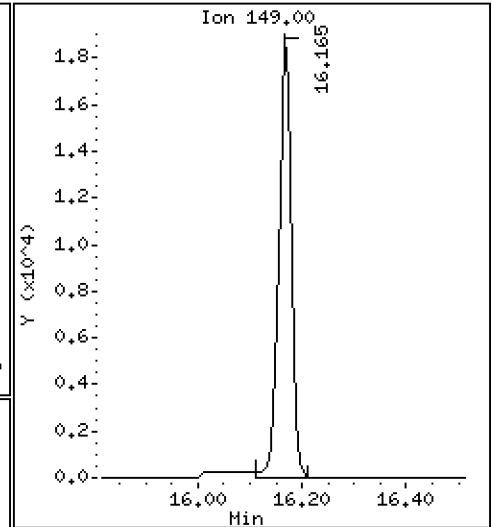
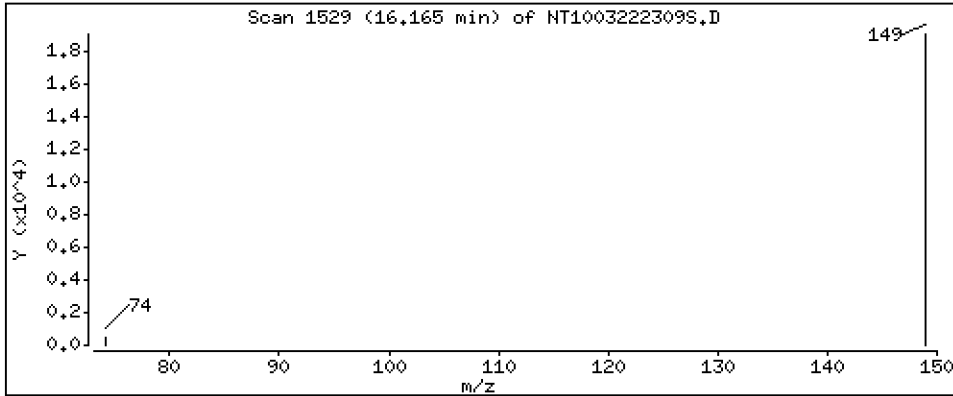
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 0.2815 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

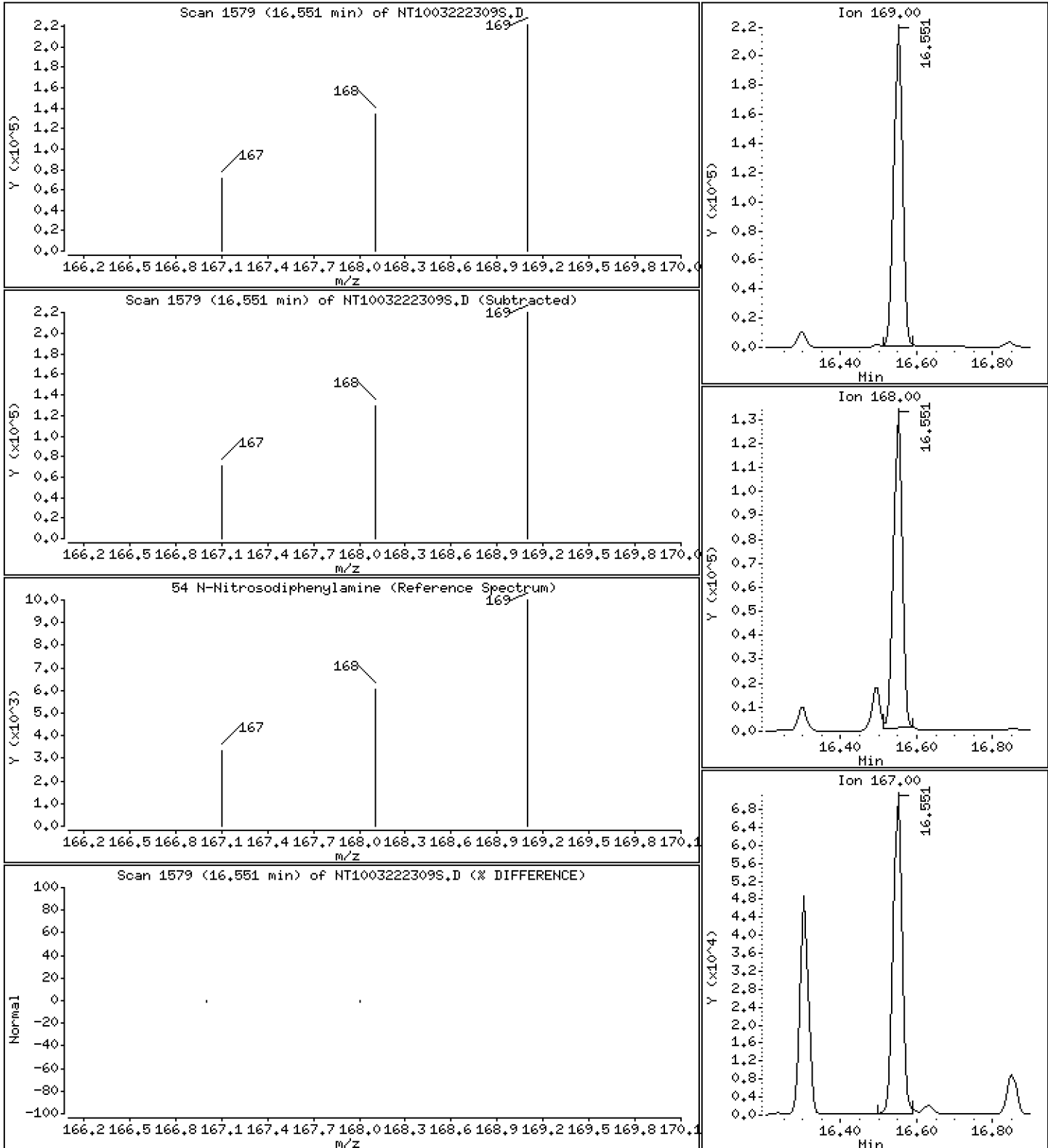
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 3,641 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

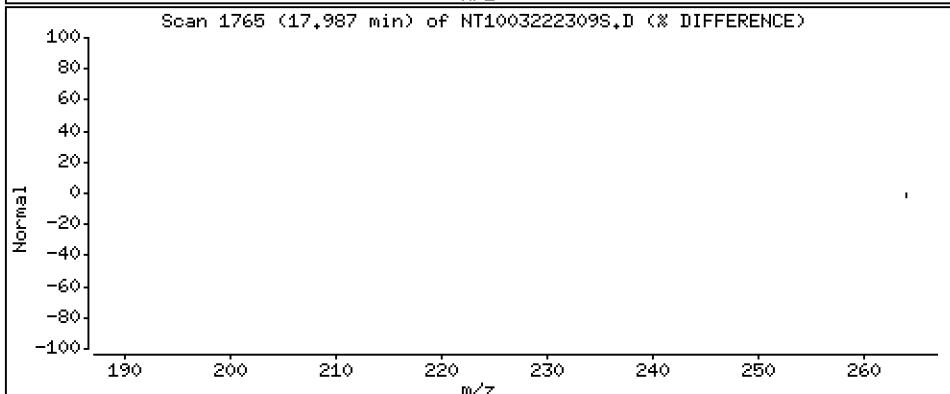
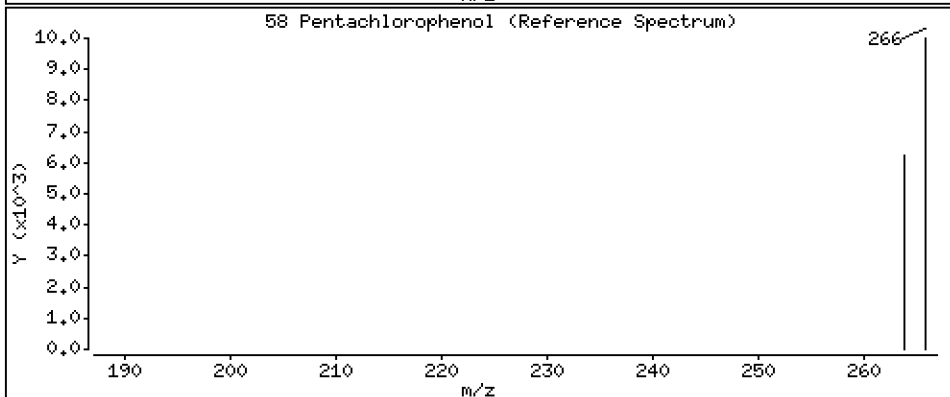
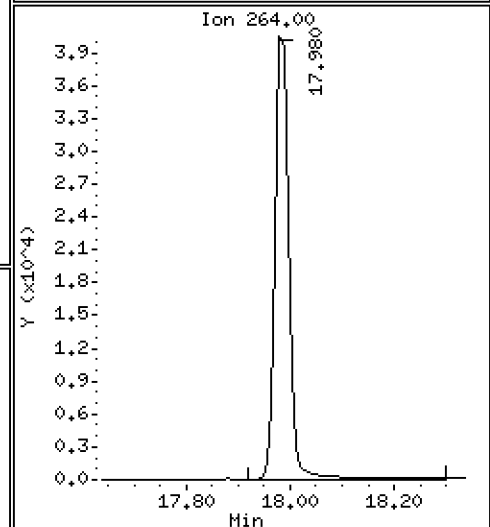
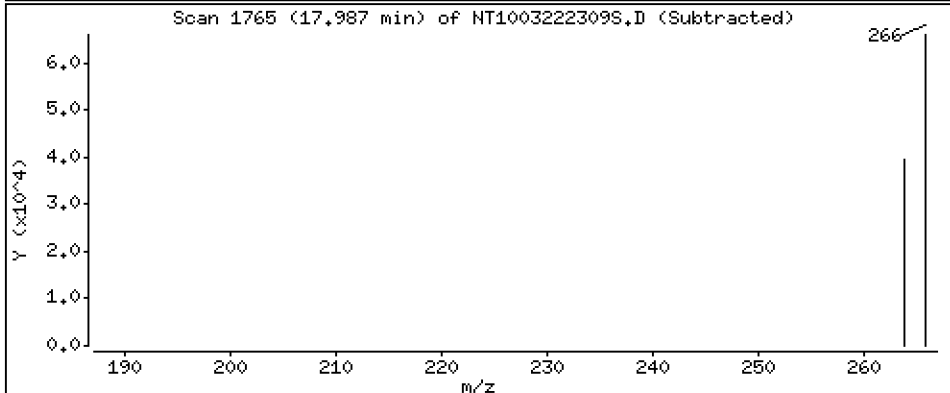
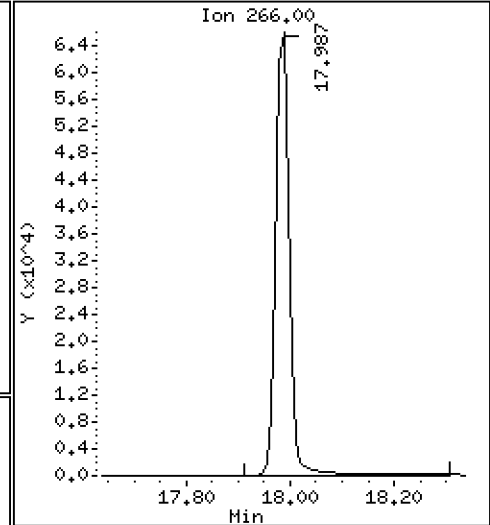
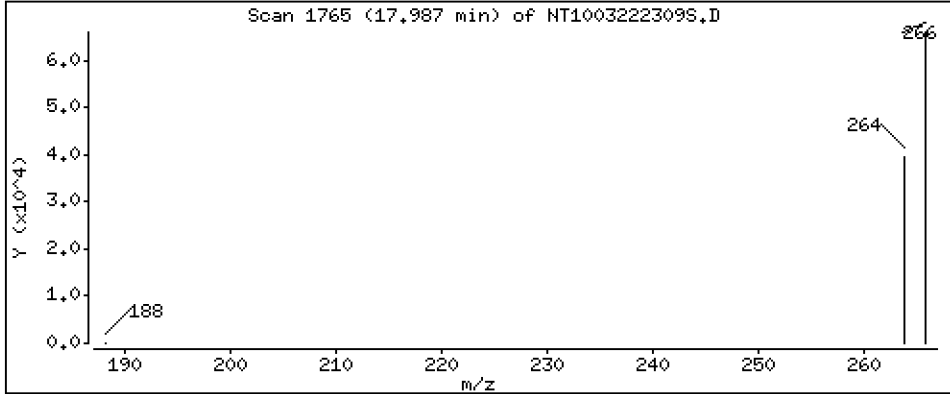
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

58 Pentachlorophenol

Concentration: 4.971 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

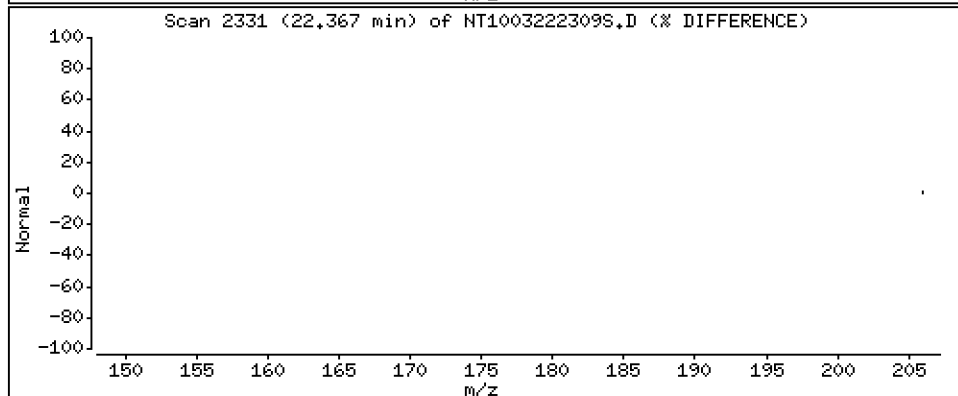
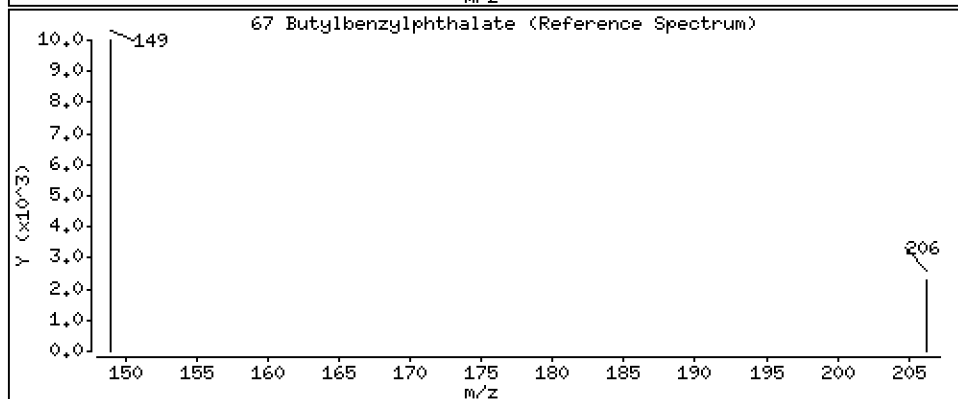
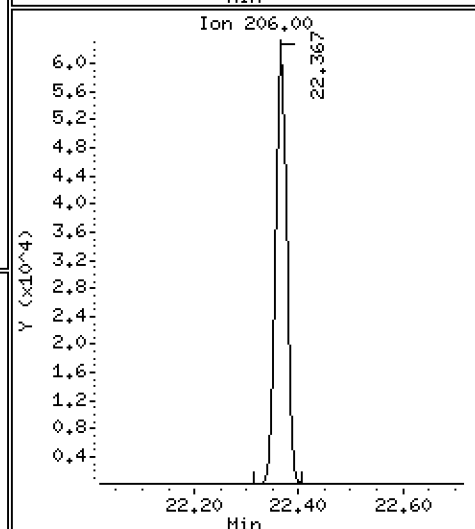
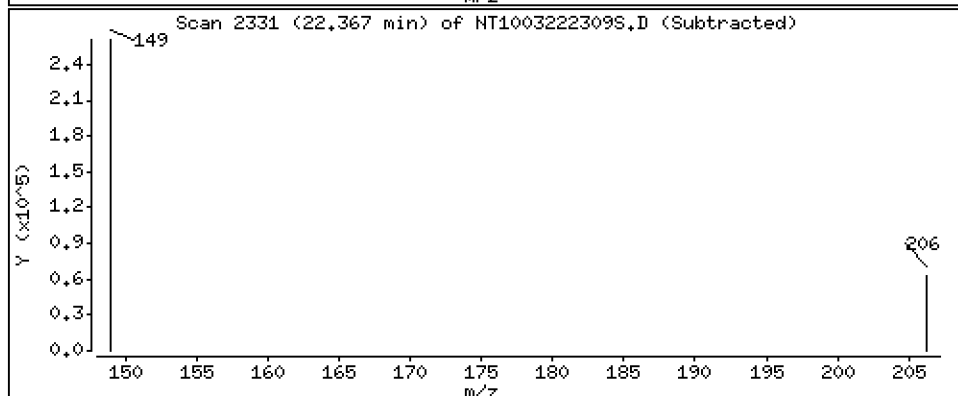
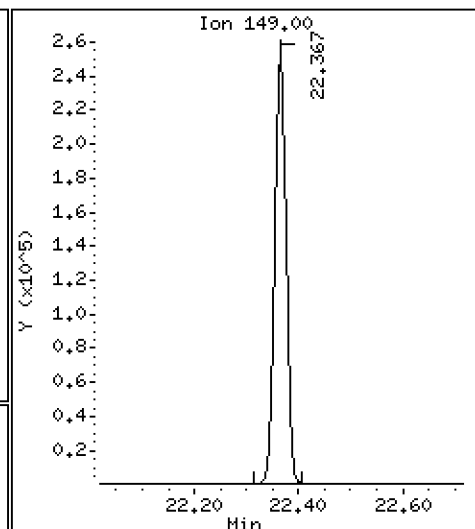
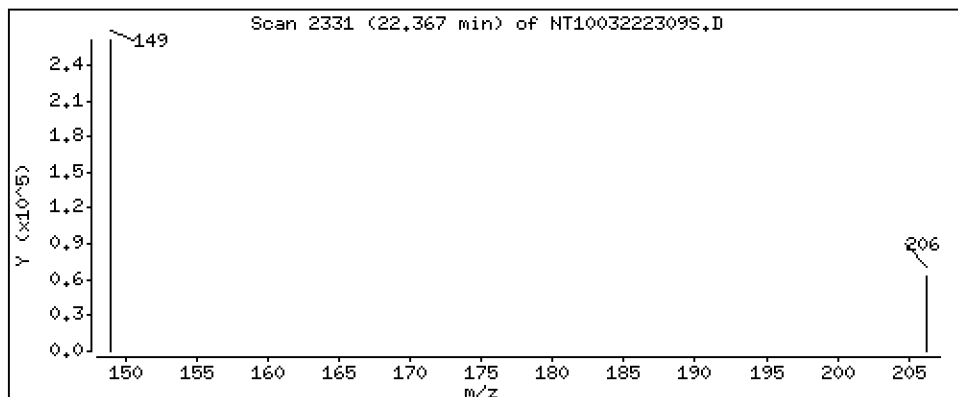
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,392 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

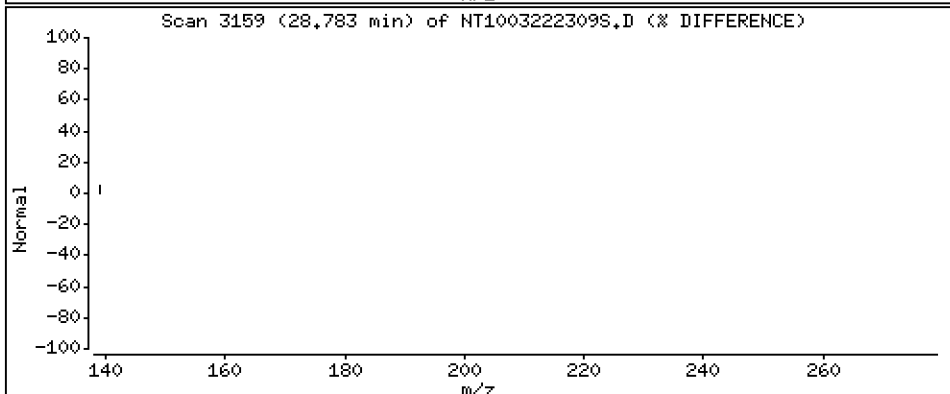
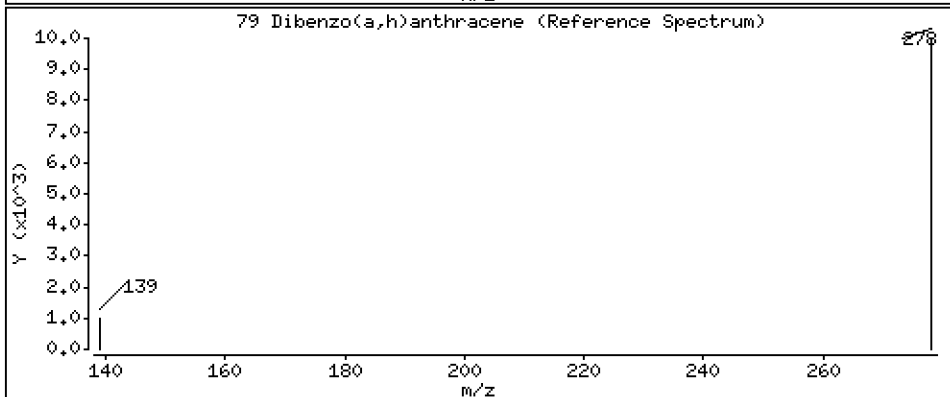
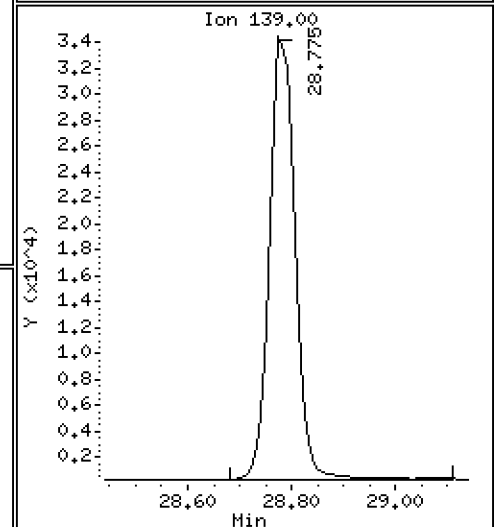
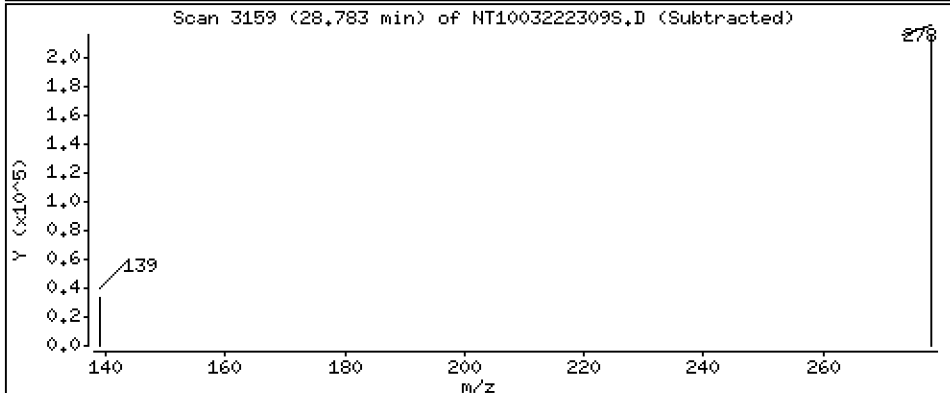
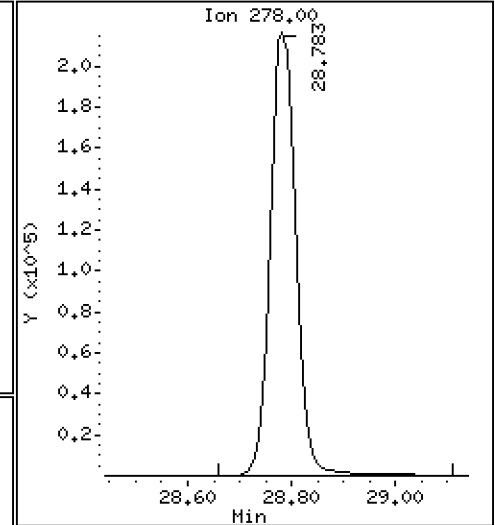
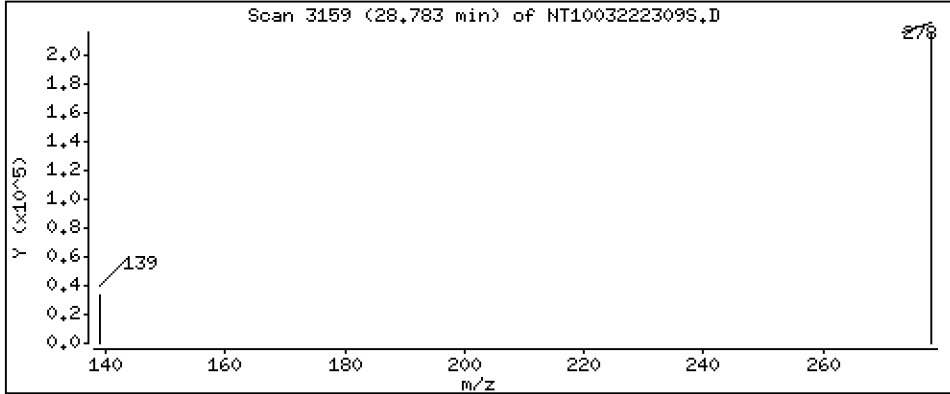
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 3,364 ug/L





Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

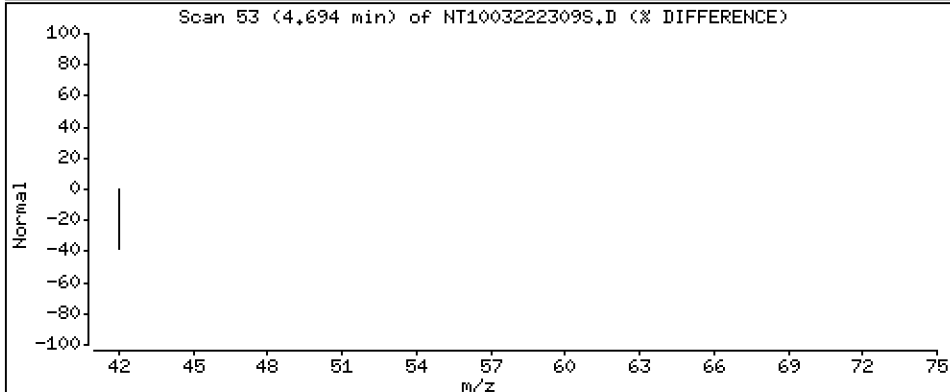
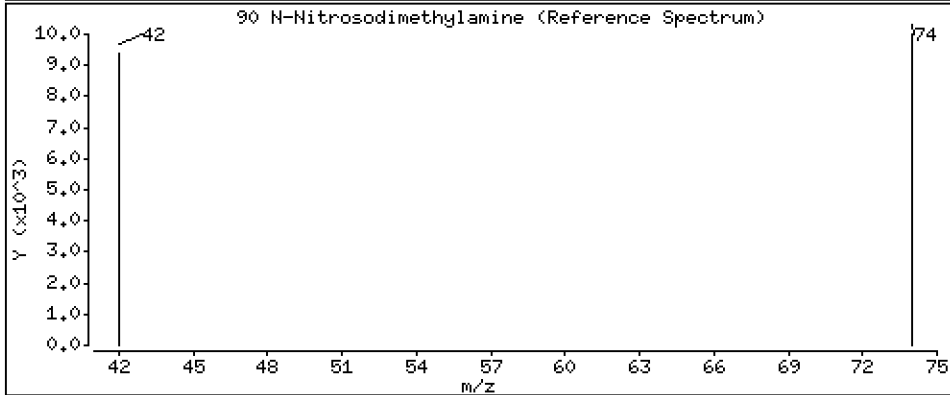
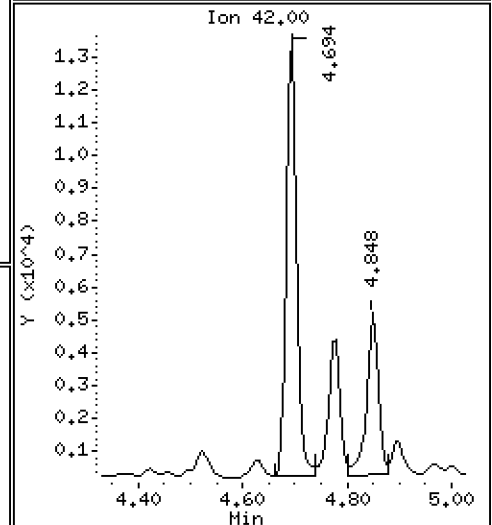
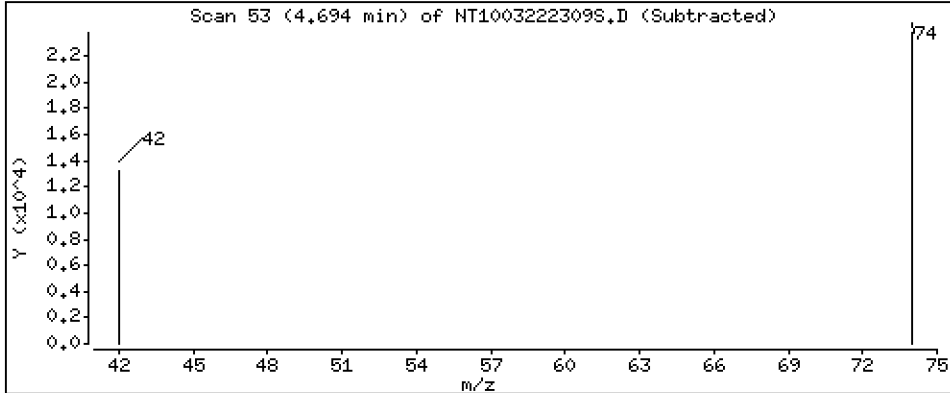
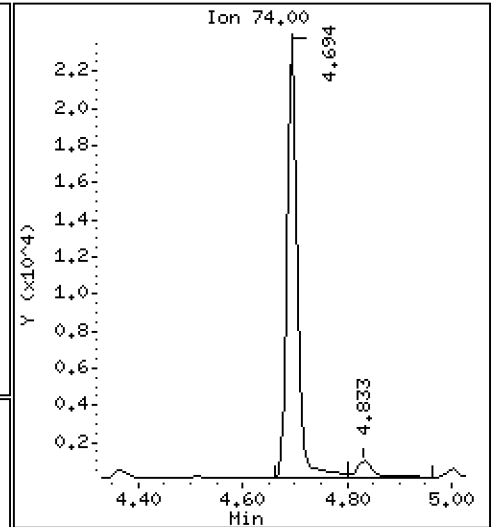
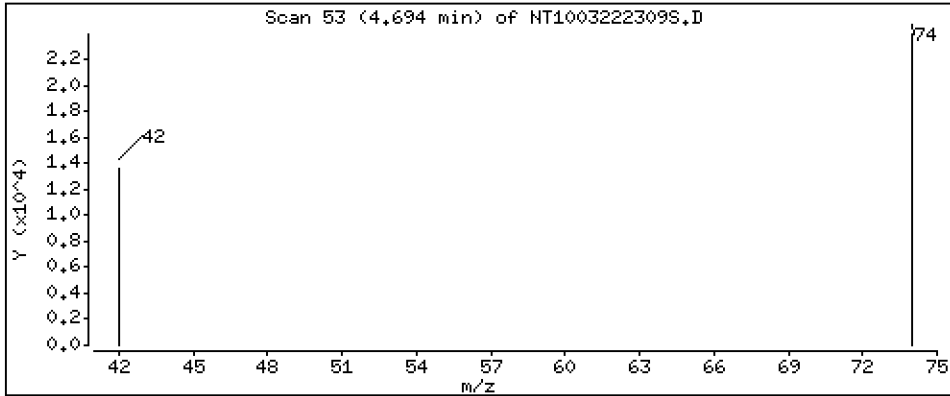
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 0.8943 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222309S.D  
 Lab Smp Id: BLC0442-SRM2  
 Inj Date : 22-MAR-2023 22:10 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : BLC0442-SRM1  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Meth Date : 25-Mar-2023 13:23 yev Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 9  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: ORGDATA102

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT     | EXP RT         | REL RT | RESPONSE               | CONCENTRATIONS |           |
|-------------------------------|-------|-----|--------|----------------|--------|------------------------|----------------|-----------|
|                               |       |     |        |                |        |                        | ON-COLUMN      | FINAL     |
|                               | MASS  |     |        |                |        |                        | (ug/mL)        | ( ug/L)   |
| \$ 1 2-Fluorophenol           | 112   |     | 6.864  | 6.856 (0.756)  |        | 341846                 | 5.79999        | 5.800 (R) |
| 3 Phenol                      | 94    |     | 8.471  | 8.471 (0.933)  |        | 199757                 | 2.47038        | 2.470     |
| 7 1,3-Dichlorobenzene         | 146   |     | 9.020  | 9.020 (0.993)  |        | 76455                  | 1.01045        | 1.010     |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.082  | 9.090 (1.000)  |        | 194361                 | 4.00000        |           |
| 9 1,4-Dichlorobenzene         | 146   |     |        |                |        | Compound Not Detected. |                |           |
| 11 Benzyl alcohol             | 79    |     |        |                |        | Compound Not Detected. |                |           |
| 12 1,2-Dichlorobenzene        | 146   |     |        |                |        | Compound Not Detected. |                |           |
| 13 2-Methylphenol             | 108   |     | 9.586  | 9.586 (1.056)  |        | 318816                 | 5.69017        | 5.690     |
| 15 4-Methylphenol             | 108   |     | 9.858  | 9.858 (1.085)  |        | 415535                 | 7.13720        | 7.137     |
| 16 N-Nitroso-di-n-propylamine | 70    |     |        |                |        | Compound Not Detected. |                |           |
| 22 2,4-Dimethylphenol         | 107   |     | 10.906 | 10.897 (0.943) |        | 350965                 | 5.89579        | 5.896     |
| 24 Benzoic acid               | 105   |     | 11.008 | 11.025 (0.951) |        | 39618                  | 1.21191        | 1.212     |
| 26 1,2,4-Trichlorobenzene     | 180   |     | 11.485 | 11.485 (0.993) |        | 76796                  | 1.28242        | 1.282     |
| * 27 Naphthalene-d8           | 136   |     | 11.569 | 11.569 (1.000) |        | 688684                 | 4.00000        |           |
| 30 Hexachlorobutadiene        | 225   |     | 11.979 | 11.979 (1.035) |        | 68504                  | 1.88157        | 1.882     |
| 39 Dimethylphthalate          | 163   |     | 14.703 | 14.703 (0.967) |        | 561333                 | 5.22878        | 5.229     |
| * 42 Acenaphthene-d10         | 162   |     | 15.198 | 15.198 (1.000) |        | 340192                 | 4.00000        |           |
| 50 Diethylphthalate           | 149   |     | 16.165 | 16.165 (1.064) |        | 31304                  | 0.28147        | 0.2815    |
| 54 N-Nitrosodiphenylamine     | 169   |     | 16.550 | 16.550 (0.907) |        | 327060                 | 3.64079        | 3.641     |
| 57 Hexachlorobenzene          | 284   |     |        |                |        | Compound Not Detected. |                |           |

| Compounds                 | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                           |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>( ug/L) |
| 58 Pentachlorophenol      | 266       | 17.987 | 17.987 | (0.986) | 113647   | 4.97121              | 4.971            |
| * 59 Phenanthrene-d10     | 188       | 18.250 | 18.250 | (1.000) | 669550   | 4.00000              |                  |
| \$ 66 Terphenyl-d14       | 244       | 21.422 | 21.422 | (0.918) | 442907   | 4.60100              | 4.601(R)         |
| 67 Butylbenzylphthalate   | 149       | 22.367 | 22.367 | (0.958) | 358964   | 4.39182              | 4.392            |
| * 69 Chrysene-d12         | 240       | 23.343 | 23.343 | (1.000) | 590805   | 4.00000              |                  |
| * 77 Perylene-d12         | 264       | 26.021 | 26.029 | (1.000) | 678670   | 4.00000              |                  |
| 79 Dibenzo(a,h)anthracene | 278       | 28.782 | 28.790 | (1.106) | 735059   | 3.36436              | 3.364            |
| 90 N-Nitrosodimethylamine | 74        | 4.693  | 4.678  | (0.517) | 33431    | 0.89432              | 0.8943           |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT1003222309S.D  
 Lab Smp Id: BLC0442-SRM2  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Misc Info:

Calibration Date: 22-MAR-2023  
 Calibration Time: 18:20  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 135191   | 67596      | 270382  | 194361 | 43.77 |
| 27 Naphthalene-d8   | 487226   | 243613     | 974452  | 688684 | 41.35 |
| 42 Acenaphthene-d10 | 246588   | 123294     | 493176  | 340192 | 37.96 |
| 59 Phenanthrene-d10 | 479352   | 239676     | 958704  | 669550 | 39.68 |
| 69 Chrysene-d12     | 439791   | 219896     | 879582  | 590805 | 34.34 |
| 77 Perylene-d12     | 505700   | 252850     | 1011400 | 678670 | 34.20 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.09     | 8.59     | 9.59  | 9.08   | -0.09 |
| 27 Naphthalene-d8   | 11.57    | 11.07    | 12.07 | 11.57  | -0.00 |
| 42 Acenaphthene-d10 | 15.20    | 14.70    | 15.70 | 15.20  | -0.00 |
| 59 Phenanthrene-d10 | 18.25    | 17.75    | 18.75 | 18.25  | -0.00 |
| 69 Chrysene-d12     | 23.34    | 22.84    | 23.84 | 23.34  | -0.00 |
| 77 Perylene-d12     | 26.03    | 25.53    | 26.53 | 26.02  | -0.03 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222309S.D

Lab ID: BLC0442-SRM2

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 22-MAR-2023 22:10

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

---

NONE

RRT check based on Ccal File: SIM.b/NT1003222303S.D

On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*



**MASS SPECTROMETER  
INSTRUMENT PERFORMANCE CHECK  
EPA 8270E-SIM**

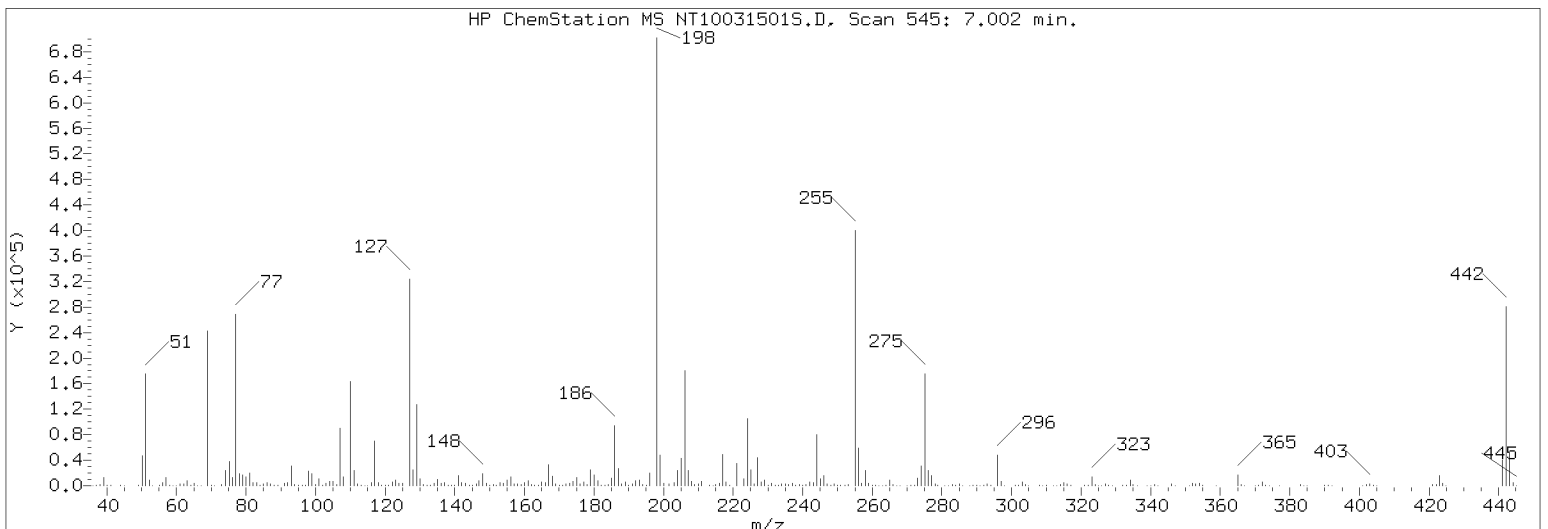
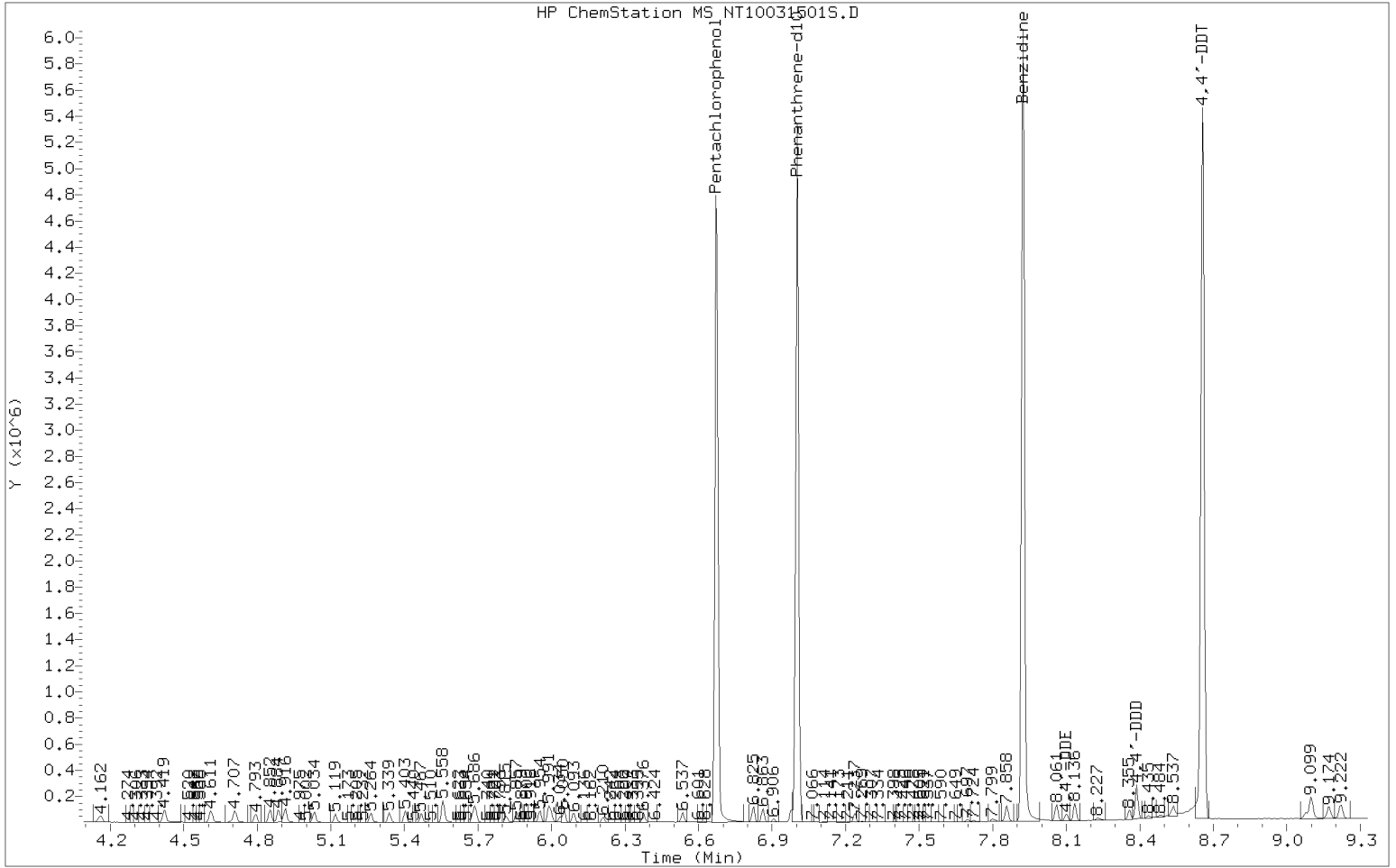
|                |                                  |                 |                        |
|----------------|----------------------------------|-----------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:            | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:        | <u>AOC5 MR Phase 1</u> |
| Lab File ID:   | <u>NT10031501S.D</u>             | Injection Date: | <u>03/15/23</u>        |
| Instrument ID: | <u>NT10</u>                      | Injection Time: | <u>20:19</u>           |
| Sequence:      | <u>SLC0238</u>                   | Lab Sample ID:  | <u>SLC0238-TUN1</u>    |

| m/z      | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |      |
|----------|------------------------------------|----------------------|------|
| 68       | Less than 2% of 69                 | 0.372                | PASS |
| 69       | Less than 100% of 198              | 36.5                 | PASS |
| 70       | Less than 2% of 69                 | 0.498                | PASS |
| 197      | Less than 2% of 198                | 0                    | PASS |
| 198      | Base peak, 100% relative abundance | 100                  | PASS |
| 199      | 5 - 9% of 198                      | 6.88                 | PASS |
| 365      | 1 - 100% of 198                    | 2.52                 | PASS |
| 441      | Less than 150% of 443              | 77.1                 | PASS |
| 442      | 1 - 200% of 198                    | 42.8                 | PASS |
| 443      | 15 - 24% of 442                    | 18.5                 | PASS |
| 4,4'-DDD | Less than 20% of 4,4'-DDT          |                      |      |
| 4,4'-DDE | Less than 20% of 4,4'-DDT          |                      |      |
| 4,4'-DDT | Less than 200% of                  |                      |      |

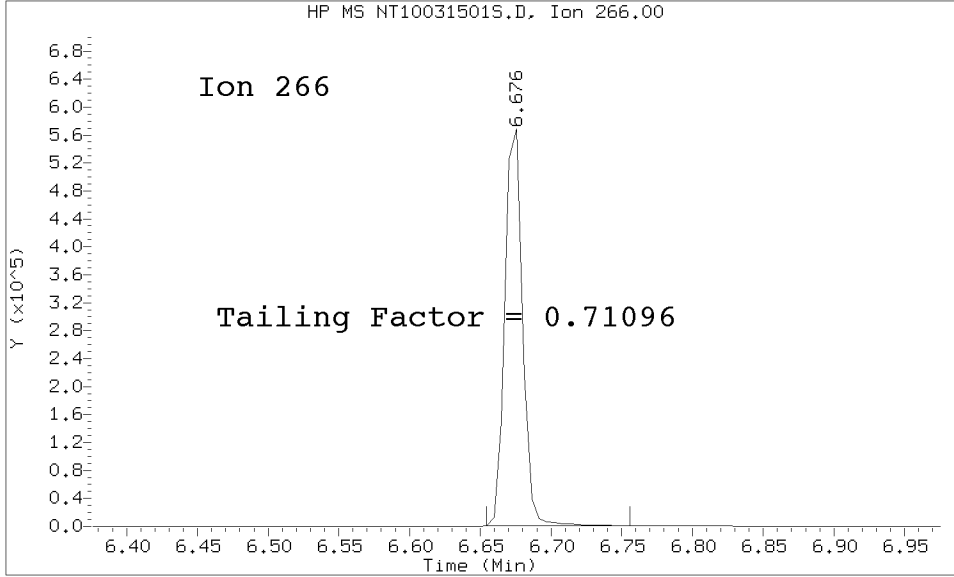
| Client Sample ID    | Lab Sample ID | Lab File ID   | Date Analyzed | Time Analyzed |
|---------------------|---------------|---------------|---------------|---------------|
| MS Tune             | SLC0238-TUN1  | NT10031501S.D | 03/15/2023    | 20:19         |
| Cal Standard        | SLC0238-CAL8  | NT10031503S.D | 03/15/2023    | 21:12         |
| Cal Standard        | SLC0238-CAL7  | NT10031504S.D | 03/15/2023    | 21:50         |
| Cal Standard        | SLC0238-CAL6  | NT10031505S.D | 03/15/2023    | 22:28         |
| Cal Standard        | SLC0238-CAL5  | NT10031506S.D | 03/15/2023    | 23:06         |
| Cal Standard        | SLC0238-CAL4  | NT10031507S.D | 03/15/2023    | 23:44         |
| Cal Standard        | SLC0238-CAL3  | NT10031508S.D | 03/16/2023    | 0:22          |
| Cal Standard        | SLC0238-CAL2  | NT10031509S.D | 03/16/2023    | 1:00          |
| Cal Standard        | SLC0238-CAL1  | NT10031510S.D | 03/16/2023    | 1:38          |
| Secondary Cal Check | SLC0238-SCV1  | NT10031511S.D | 03/16/2023    | 2:16          |
| Initial Cal Blank   | SLC0238-ICB1  | NT10031512S.D | 03/16/2023    | 2:54          |

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230315.b/20230315.b/NT10031501S.D/NT10031501S.D  
 Method Used: \20230315.b\20230315.b\DFTPP8270E.m Inst: nt10  
 Injection Date: 15-MAR-2023 20:19 Operator: JGR  
 Sample Info: SLC0238-TUN1 SLC0238-TUN1  
 Report Date: 03/16/2023 14:49



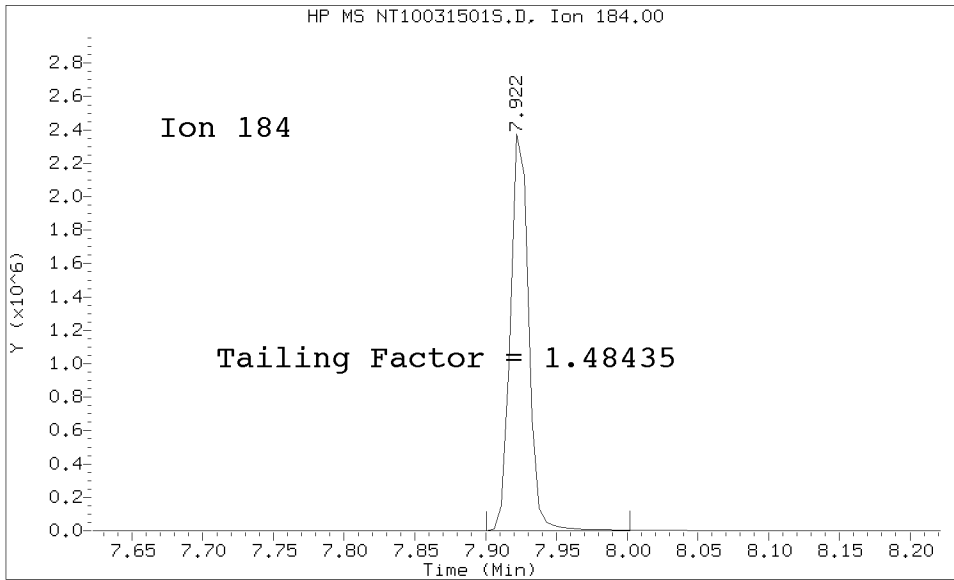
Datafile Analyzed: /20230315.b/20230315.b/NT10031501S.D/NT10031501S.D  
Method Used: \20230315.b\20230315.b\DFTPP8270E.m\sw846ddt.m Inst: nt10  
Injection Date: 15-MAR-2023 20:19 Operator: JGR  
Sample Info: SEQ-TUN1  
Report Date: 03/16/2023 14:49



Pentachlorophenol

=====  
Exp. RT = 6.676  
Found RT = 6.676

Tail Factor = 0.711 Maximum Allowed = 2.0



Benzidine

=====  
Exp. RT = 7.922  
Found RT = 7.922

Tail Factor = 1.484 Maximum Allowed = 2.0



8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

| Compound          | Tail Factor | Max Allowed | Test |
|-------------------|-------------|-------------|------|
| Pentachlorophenol | 0.7109557   | 2.000       | PASS |
| Benzidine         | 1.4843493   | 2.000       | PASS |

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

| Compound      | Response | %Breakdown | Max Allowed | Test |
|---------------|----------|------------|-------------|------|
| 4,4-DDT       | 962640   |            |             | N/A  |
| 4,4-DDE       | 5158     | 0.5        | 20.0        | PASS |
| 4,4-DDD       | 41277    | 4.1        | 20.0        | PASS |
| 4,4-DDD + DDE | 46435    | 4.6        | 20.0        | PASS |

Tuning Sample, nt10.i/20230315.b/20230315.b/NT10031501S.D, \*\*\* PASSED \*\*\*

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00               |
| 68  | Less than 2.00% of mass 69         | 0.14 ( 0.37)         |
| 69  | Mass 69 relative abundance         | 36.50                |
| 70  | Less than 2.00% of mass 69         | 0.18 ( 0.50)         |
| 197 | Less than 2.00% of mass 198        | 0.00                 |
| 199 | 5.00 - 9.00% of mass 198           | 6.88                 |
| 365 | 1.00 - 100.00% of mass 198         | 2.52                 |
| 441 | Less than 150.00% of mass 443      | 6.11 ( 77.09)        |
| 442 | Less than 200.00% of mass 198      | 42.80                |
| 443 | 15.00 - 24.00% of mass 442         | 7.92 ( 18.52)        |

Data File: NT10031501S.D  
Spectrum: Avg. Scans 544-546 ( 7.00), Background Scan 536  
Location of Maximum: 198.00  
Number of points: 316

| m/z   | Y      | m/z    | Y      | m/z    | Y      | m/z    | Y     |
|-------|--------|--------|--------|--------|--------|--------|-------|
| 36.00 | 226    | 124.00 | 3185   | 207.00 | 17112  | 293.00 | 2318  |
| 37.00 | 575    | 125.00 | 2909   | 208.00 | 4722   | 294.00 | 588   |
| 38.00 | 1820   | 127.00 | 243264 | 209.00 | 1586   | 295.00 | 171   |
| 39.00 | 10159  | 128.00 | 18696  | 210.00 | 2002   | 296.00 | 36168 |
| 40.00 | 405    | 129.00 | 96304  | 211.00 | 5093   | 297.00 | 5056  |
| 41.00 | 312    | 130.00 | 8257   | 213.00 | 371    | 298.00 | 351   |
| 42.00 | 59     | 131.00 | 1626   | 214.00 | 74     | 301.00 | 422   |
| 45.00 | 283    | 132.00 | 820    | 215.00 | 1549   | 302.00 | 552   |
| 49.00 | 910    | 133.00 | 415    | 216.00 | 2822   | 303.00 | 4130  |
| 50.00 | 35800  | 134.00 | 2800   | 217.00 | 36520  | 304.00 | 1107  |
| 51.00 | 136000 | 135.00 | 7704   | 218.00 | 4515   | 305.00 | 126   |
| 52.00 | 7201   | 136.00 | 3195   | 219.00 | 360    | 308.00 | 532   |
| 53.00 | 294    | 137.00 | 3970   | 221.00 | 25672  | 309.00 | 330   |
| 55.00 | 668    | 138.00 | 948    | 222.00 | 2863   | 310.00 | 461   |
| 56.00 | 4206   | 139.00 | 563    | 223.00 | 8094   | 312.00 | 63    |
| 57.00 | 9877   | 140.00 | 1193   | 224.00 | 76160  | 313.00 | 360   |
| 58.00 | 478    | 141.00 | 12476  | 225.00 | 18680  | 314.00 | 1762  |
| 59.00 | 106    | 142.00 | 3876   | 226.00 | 2197   | 315.00 | 4011  |
| 60.00 | 125    | 143.00 | 2757   | 227.00 | 32752  | 316.00 | 2200  |
| 61.00 | 1897   | 144.00 | 726    | 228.00 | 4949   | 317.00 | 416   |
| 62.00 | 2103   | 145.00 | 710    | 229.00 | 6725   | 321.00 | 1068  |
| 63.00 | 6654   | 146.00 | 2200   | 230.00 | 933    | 322.00 | 491   |
| 64.00 | 895    | 147.00 | 6157   | 231.00 | 2854   | 323.00 | 10541 |
| 65.00 | 3279   | 148.00 | 13642  | 232.00 | 574    | 324.00 | 1817  |
| 66.00 | 188    | 149.00 | 2992   | 233.00 | 660    | 325.00 | 178   |
| 67.00 | 249    | 150.00 | 753    | 234.00 | 2022   | 326.00 | 218   |
| 68.00 | 704    | 151.00 | 1678   | 235.00 | 2475   | 327.00 | 2103  |
| 69.00 | 189184 | 152.00 | 893    | 236.00 | 1621   | 328.00 | 1092  |
| 70.00 | 943    | 153.00 | 4091   | 237.00 | 2803   | 329.00 | 211   |
| 71.00 | 156    | 154.00 | 3154   | 238.00 | 375    | 332.00 | 739   |
| 73.00 | 1307   | 155.00 | 6743   | 239.00 | 1387   | 333.00 | 975   |
| 74.00 | 18768  | 156.00 | 10344  | 240.00 | 943    | 334.00 | 6536  |
| 75.00 | 30000  | 157.00 | 2091   | 241.00 | 1718   | 335.00 | 1733  |
| 76.00 | 10364  | 158.00 | 2204   | 242.00 | 4096   | 336.00 | 201   |
| 77.00 | 207552 | 159.00 | 1689   | 243.00 | 3931   | 339.00 | 148   |
| 78.00 | 14246  | 160.00 | 3864   | 244.00 | 58560  | 340.00 | 135   |
| 79.00 | 13356  | 161.00 | 5891   | 245.00 | 7760   | 341.00 | 1142  |
| 80.00 | 10539  | 162.00 | 1637   | 246.00 | 11941  | 342.00 | 277   |
| 81.00 | 15173  | 163.00 | 475    | 247.00 | 2526   | 346.00 | 2192  |
| 82.00 | 3906   | 164.00 | 608    | 248.00 | 602    | 347.00 | 346   |
| 83.00 | 3545   | 165.00 | 4507   | 249.00 | 2169   | 351.00 | 182   |
| 84.00 | 178    | 166.00 | 3807   | 250.00 | 370    | 352.00 | 3059  |
| 85.00 | 2559   | 167.00 | 24880  | 251.00 | 462    | 353.00 | 1950  |
| 86.00 | 4226   | 168.00 | 11639  | 252.00 | 590    | 354.00 | 3010  |
| 87.00 | 1998   | 169.00 | 2046   | 253.00 | 1331   | 355.00 | 569   |
| 88.00 | 783    | 170.00 | 776    | 255.00 | 296384 | 359.00 | 242   |
| 89.00 | 418    | 171.00 | 1036   | 256.00 | 43272  | 365.00 | 13085 |
| 91.00 | 3237   | 172.00 | 2248   | 257.00 | 3394   | 366.00 | 1813  |
| 92.00 | 3764   | 173.00 | 2906   | 258.00 | 18176  | 367.00 | 150   |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 93.00  | 24104  | 174.00 | 5113   | 259.00 | 2926   | 370.00 | 291    |
| 94.00  | 1672   | 175.00 | 9851   | 260.00 | 520    | 371.00 | 690    |
| 95.00  | 503    | 176.00 | 2588   | 261.00 | 479    | 372.00 | 4605   |
| 96.00  | 1130   | 177.00 | 4756   | 262.00 | 60     | 373.00 | 1002   |
| 97.00  | 380    | 178.00 | 1657   | 263.00 | 151    | 374.00 | 50     |
| 98.00  | 17936  | 179.00 | 18424  | 264.00 | 377    | 377.00 | 67     |
| 99.00  | 14658  | 180.00 | 12975  | 265.00 | 6992   | 383.00 | 1157   |
| 100.00 | 1303   | 181.00 | 6000   | 266.00 | 984    | 384.00 | 328    |
| 101.00 | 8724   | 182.00 | 963    | 267.00 | 105    | 385.00 | 50     |
| 102.00 | 480    | 183.00 | 493    | 268.00 | 248    | 390.00 | 595    |
| 103.00 | 2859   | 184.00 | 1456   | 270.00 | 285    | 391.00 | 401    |
| 104.00 | 5461   | 185.00 | 9317   | 271.00 | 631    | 392.00 | 204    |
| 105.00 | 5056   | 186.00 | 70384  | 272.00 | 750    | 401.00 | 211    |
| 106.00 | 1781   | 187.00 | 20112  | 273.00 | 8749   | 402.00 | 1564   |
| 107.00 | 67936  | 188.00 | 2185   | 274.00 | 23296  | 403.00 | 2292   |
| 108.00 | 10471  | 189.00 | 4453   | 275.00 | 129008 | 404.00 | 796    |
| 109.00 | 595    | 190.00 | 772    | 276.00 | 17320  | 405.00 | 237    |
| 110.00 | 122760 | 191.00 | 2090   | 277.00 | 11470  | 421.00 | 1827   |
| 111.00 | 18400  | 192.00 | 5915   | 278.00 | 2005   | 422.00 | 1658   |
| 112.00 | 2357   | 193.00 | 6863   | 279.00 | 468    | 423.00 | 12304  |
| 113.00 | 756    | 194.00 | 1470   | 281.00 | 147    | 424.00 | 2795   |
| 114.00 | 128    | 195.00 | 841    | 282.00 | 368    | 425.00 | 263    |
| 115.00 | 298    | 196.00 | 14341  | 283.00 | 1453   | 441.00 | 31664  |
| 116.00 | 3871   | 198.00 | 518272 | 284.00 | 874    | 442.00 | 221824 |
| 117.00 | 54088  | 199.00 | 35680  | 285.00 | 2012   | 443.00 | 41072  |
| 118.00 | 3919   | 200.00 | 2830   | 286.00 | 333    | 444.00 | 3778   |
| 119.00 | 531    | 201.00 | 2302   | 288.00 | 146    | 445.00 | 177    |
| 120.00 | 920    | 203.00 | 3657   | 289.00 | 446    |        |        |
| 121.00 | 362    | 204.00 | 18200  | 290.00 | 444    |        |        |
| 122.00 | 4396   | 205.00 | 31664  | 291.00 | 199    |        |        |
| 123.00 | 6778   | 206.00 | 132736 | 292.00 | 486    |        |        |



**INITIAL CALIBRATION DATA**  
**EPA 8270E-SIM**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GC00049                   | Instrument: | NT10            |
| Calibration Date: | 03/15/2023                | Column (1): | ZB-5MSi         |

Calibration Comments: SIM ABN ICAL

| Compound               | Level 01 |              | Level 02 |              | Level 03 |              | Level 04 |              | Level 05 |           | Level 06 |           |
|------------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|-----------|----------|-----------|
|                        | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF       | Conc     | RRF       |
| 1,4-Dichlorobenzene    | 0.05     | 1.592272     | 0.1      | 1.586931     | 0.2      | 1.531032     | 0.5      | 1.525923     | 1        | 1.515432  | 2.5      | 1.504782  |
| 1,2-Dichlorobenzene    | 0.05     | 1.56064      | 0.1      | 1.560751     | 0.2      | 1.516719     | 0.5      | 1.51987      | 1        | 1.490507  | 2.5      | 1.472424  |
| Benzyl Alcohol         | 0.05     | 0.782671     | 0.1      | 0.8201691    | 0.2      | 0.8740273    | 0.5      | 1.001336     | 1        | 1.030407  | 2.5      | 1.109109  |
| Benzoic acid           | 0.2      |              | 0.4      |              | 0.8      | 6.708155E-03 | 2        | 6.190403E-02 | 4        | 0.1152489 | 10       | 0.1827842 |
| 2,4-Dimethylphenol     | 0.1      | 0.3036003    | 0.2      | 0.3286116    | 0.4      | 0.3508719    | 1        | 0.3747964    | 2        | 0.3711962 | 5        | 0.3672727 |
| 1,2,4-Trichlorobenzene | 0.05     | 0.3845889    | 0.1      | 0.3611836    | 0.2      | 0.3536726    | 0.5      | 0.3564226    | 1        | 0.3477346 | 2.5      | 0.3419587 |
| N-Nitrosodiphenylamine | 0.05     | 0.4535426    | 0.1      | 0.5106592    | 0.2      | 0.5366733    | 0.5      | 0.5716845    | 1        | 0.5845597 | 2.5      | 0.5722409 |
| Pentachlorophenol      | 0.1      | 2.310914E-02 | 0.2      | 3.752894E-02 | 0.4      | 5.531502E-02 | 1        | 8.792089E-02 | 2        | 0.1125666 | 5        | 0.1349126 |
| 2-Fluorophenol         | 0.075    | 1.096851     | 0.15     | 1.182501     | 0.3      | 1.198448     | 0.75     | 1.278705     | 1.5      | 1.28736   | 3.75     | 1.294114  |
| p-Terphenyl-d14        | 0.05     | 0.6363201    | 0.1      | 0.6085315    | 0.2      | 0.6174532    | 0.5      | 0.6484741    | 1        | 0.6506625 | 2.5      | 0.6938122 |



**INITIAL CALIBRATION DATA**  
**EPA 8270E-SIM**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GC00049                   | Instrument: | NT10            |
| Calibration Date: | 03/15/2023                | Column (1): | ZB-5MSi         |

Calibration Comments: SIM ABN ICAL

| Compound               | Level 07 |           | Level 08 |           | Level 09 |     | Level 10 |     | Level 11 |     | Level 12 |     |
|------------------------|----------|-----------|----------|-----------|----------|-----|----------|-----|----------|-----|----------|-----|
|                        | Conc     | RRF       | Conc     | RRF       | Conc     | RRF | Conc     | RRF | Conc     | RRF | Conc     | RRF |
| 1,4-Dichlorobenzene    | 5        | 1.407857  | 10       | 1.361355  |          |     |          |     |          |     |          |     |
| 1,2-Dichlorobenzene    | 5        | 1.378422  | 10       | 1.327177  |          |     |          |     |          |     |          |     |
| Benzyl Alcohol         | 5        | 1.078683  | 10       | 1.021686  |          |     |          |     |          |     |          |     |
| Benzoic acid           | 20       | 0.2157908 | 40       | 0.2329458 |          |     |          |     |          |     |          |     |
| 2,4-Dimethylphenol     | 10       | 0.3419758 | 20       | 0.3276736 |          |     |          |     |          |     |          |     |
| 1,2,4-Trichlorobenzene | 5        | 0.3213898 | 10       | 0.3155673 |          |     |          |     |          |     |          |     |
| N-Nitrosodiphenylamine | 5        | 0.5475779 | 10       | 0.5164376 |          |     |          |     |          |     |          |     |
| Pentachlorophenol      | 10       | 0.1437906 | 20       | 0.1522559 |          |     |          |     |          |     |          |     |
| 2-Fluorophenol         | 7.5      | 1.204517  | 15       | 1.16136   |          |     |          |     |          |     |          |     |
| p-Terphenyl-d14        | 5        | 0.6837    | 10       | 0.6749908 |          |     |          |     |          |     |          |     |





ANALYSIS SEQUENCE

SLC0238

Instrument ID: NT10                      GCMS Description: Agilent 5975/MS http://bi  
Calibration ID: GC00049                GCMS Column ID: L002830  
MS EM Level: 1271 EV

| Lab Number   | Sample Name       | Analysis | Container | Order | STD ID  | ISTD ID | Analyzed         | File ID       | Analyst | Comments |
|--------------|-------------------|----------|-----------|-------|---------|---------|------------------|---------------|---------|----------|
| SLC0238-TUN1 | MS Tune           | QC       |           | 1     | L002618 |         | 03/15/2023 20:19 | NT10031501S.D | JGR     |          |
| SLC0238-CAL8 | ABN 10.0          | QC       |           | 2     | K011110 | K010831 | 03/15/2023 21:12 | NT10031503S.D | JGR     |          |
| SLC0238-CAL7 | ABN 5.0           | QC       |           | 3     | K011109 | K010831 | 03/15/2023 21:50 | NT10031504S.D | JGR     |          |
| SLC0238-CAL6 | ABN 2.5           | QC       |           | 4     | K011108 | K010831 | 03/15/2023 22:28 | NT10031505S.D | JGR     |          |
| SLC0238-CAL5 | ABN 1.0           | QC       |           | 5     | K011107 | K010831 | 03/15/2023 23:06 | NT10031506S.D | JGR     |          |
| SLC0238-CAL4 | ABN 0.5           | QC       |           | 6     | K011106 | K010831 | 03/15/2023 23:44 | NT10031507S.D | JGR     |          |
| SLC0238-CAL3 | ABN 0.2           | QC       |           | 7     | K011105 | K010831 | 03/16/2023 00:22 | NT10031508S.D | JGR     |          |
| SLC0238-CAL2 | ABN 0.1           | QC       |           | 8     | L002877 | K010831 | 03/16/2023 01:00 | NT10031509S.D | JGR     |          |
| SLC0238-CAL1 | ABN 0.05          | QC       |           | 9     | L002878 | K010831 | 03/16/2023 01:38 | NT10031510S.D | JGR     |          |
| SLC0238-SCV1 | SCV 5.0           | QC       |           | 10    | K010066 | K010831 | 03/16/2023 02:16 | NT10031511S.D | JGR     |          |
| SLC0238-ICB1 | Initial Cal Blank | QC       |           | 11    | K005156 | K010831 | 03/16/2023 02:54 | NT10031512S.D | JGR     |          |



INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b\20230315.b

| Time    | Filename      | LabID          | ClientId | DF  |
|---------|---------------|----------------|----------|---|
| 1 2019  | NT10031501S.D | SLC0238-TUN1   |          | 1  NO ISTDS FOUND   |
| 2 2034  | NT10031502S.D | FULL SCAN ONLY |          | 1   9.31 193857  11.78 709633  15.39 344841  18.43 635594  23.46 392013  26.19 449978 |
| 3 2112  | NT10031503S.D | SLC0238-CAL8   |          | 1   9.31 192425  11.78 689875  15.39 341663  18.42 651934  23.45 482051  26.19 502718 |
| 4 2150  | NT10031504S.D | SLC0238-CAL7   |          | 1   9.30 187419  11.77 682446  15.38 331603  18.42 598629  23.45 389338  26.19 466441 |
| 5 2228  | NT10031505S.D | SLC0238-CAL6   |          | 1   9.30 173412  11.78 624286  15.38 310309  18.43 554860  23.46 385144  26.19 456369 |
| 6 2306  | NT10031506S.D | SLC0238-CAL5   |          | 1   9.30 188081  11.77 674549  15.39 328275  18.42 597140  23.45 466503  26.19 518203 |
| 7 2344  | NT10031507S.D | SLC0238-CAL4   |          | 1   9.30 191648  11.77 679665  15.39 335786  18.42 613961  23.45 464623  26.19 521317 |
| 8 0022  | NT10031508S.D | SLC0238-CAL3   |          | 1   9.30 188644  11.78 664117  15.38 328147  18.42 603272  23.46 468991  26.18 525052 |
| 9 0100  | NT10031509S.D | SLC0238-CAL2   |          | 1   9.30 190985  11.77 684638  15.39 328366  18.42 602202  23.45 451316  26.19 517188 |
| 10 0138 | NT10031510S.D | SLC0238-CAL1   |          | 1   9.30 187154  11.78 654413  15.38 318969  18.42 583319  23.46 440533  26.19 488759 |
| 11 0216 | NT10031511S.D | SLC0238-SCV1   |          | 1   9.31 166866  11.78 612104  15.39 302524  18.43 553619  23.46 465428  26.19 532593 |
| 12 0254 | NT10031512S.D | SLC0238-ICB1   |          | 1   9.31 189475  11.77 676186  15.38 328650  18.42 617605  23.45 473513  26.19 534734 |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b\20230315.b

Instrument: nt10.i Date: 15-MAR-2023

| Time | Filename      | LabID          | DF | Manually Integrated Compounds |
|------|---------------|----------------|----|-------------------------------|
| 2019 | NT10031501S.D | SLC0238-TUN1   | 1  | NO MANUAL INTEGRATION         |
| 2034 | NT10031502S.D | FULL SCAN ONLY | 1  | NO MANUAL INTEGRATION         |
| 2112 | NT10031503S.D | SLC0238-CAL8   | 1  | NO MANUAL INTEGRATION         |
| 2150 | NT10031504S.D | SLC0238-CAL7   | 1  | NO MANUAL INTEGRATION         |
| 2228 | NT10031505S.D | SLC0238-CAL6   | 1  | NO MANUAL INTEGRATION         |
| 2306 | NT10031506S.D | SLC0238-CAL5   | 1  | NO MANUAL INTEGRATION         |
| 2344 | NT10031507S.D | SLC0238-CAL4   | 1  | NO MANUAL INTEGRATION         |
| 0022 | NT10031508S.D | SLC0238-CAL3   | 1  | Benzoic acid,                 |
| 0100 | NT10031509S.D | SLC0238-CAL2   | 1  | Pentachlorophenol,            |
| 0138 | NT10031510S.D | SLC0238-CAL1   | 1  | Pentachlorophenol,            |
| 0216 | NT10031511S.D | SLC0238-SCV1   | 1  | Terphenyl-d14,                |
| 0254 | NT10031512S.D | SLC0238-ICB1   | 1  | NO MANUAL INTEGRATION         |

Security Status Report

Date: 16-Mar-2023 14:47

|               |             |                        |
|---------------|-------------|------------------------|
| NT10031501S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031502S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031503S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031504S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031505S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031506S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031507S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031508S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031509S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031510S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031511S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031512S.D | Data Locked | van, 16-Mar-2023 14:47 |

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INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 21:12  
 End Cal Date : 16-MAR-2023 01:38  
 Quant Method : ISTD  
 Origin : Force  
 Target Version : 4.14  
 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Last Edit : 16-Mar-2023 14:34 van

Calibration File Names:

- Level 1: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031510S.D
- Level 2: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031509S.D
- Level 3: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031508S.D
- Level 4: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031507S.D
- Level 5: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031506S.D
- Level 6: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031505S.D
- Level 7: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031504S.D
- Level 8: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031503S.D

| Compound            | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | Curve | b | Coefficients |    | %RSD<br>or R <sup>2</sup> |
|---------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|---------------------------|
|                     | Level 1   | Level 2   | Level 3   | Level 4   | Level 5 | Level 6 |       |   | m1           | m2 |                           |
|                     | 5.0000    | 10.0000   |           |           |         |         |       |   |              |    |                           |
|                     | Level 7   | Level 8   |           |           |         |         |       |   |              |    |                           |
| 138 Chlorobenzilate | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                     | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 139 Isodrin         | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                     | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 140 Diallyate A     | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                     | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |

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 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Last Edit : 16-Mar-2023 14:34 van

| Compound                        | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|---------------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|----------------|
|                                 | Level 1   | Level 2   | Level 3   | Level 4   | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                                 | 5.0000    | 10.0000   |           |           |         |         |       |   |              |    |                |
|                                 | Level 7   | Level 8   |           |           |         |         |       |   |              |    |                |
| 141 Diallate B                  | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                |
|                                 | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 142 1,2-Dibromo-3-Chloropropane | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                |
|                                 | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 135 2,3,5,6-Tetrachlorophenol   | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                |
|                                 | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 136 2,3,4,5-tetrachlorophenol   | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                |
|                                 | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 137 NewCpnd_131                 | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                |
|                                 | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 133 Butylatedhydroxytoluene     | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                |
|                                 | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 132 3,6-Dimethylphenanthrene    | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                |
|                                 | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |

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 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Last Edit : 16-Mar-2023 14:34 van

| Compound                    | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|-----------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|----------------|
|                             | Level 1   | Level 2   | Level 3   | Level 4   | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                             | 5.0000    | 10.0000   |           |           |         |         |       |   |              |    |                |
|                             | Level 7   | Level 8   |           |           |         |         |       |   |              |    |                |
| 131 1-Methylphenanthrene    | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                             | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 146 Benzo(j)fluoranthene    | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                             | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 130 Dibenzothiophene        | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                             | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 129 1-Methylfluorene        | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                             | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 128 N-Hexadecane            | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                             | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 127 2-Isopropyl-naphthalene | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                             | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 126 N-Tetradecane           | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                             | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |

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Start Cal Date : 15-MAR-2023 21:12  
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 Quant Method : ISTD  
 Origin : Force  
 Target Version : 4.14  
 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Last Edit : 16-Mar-2023 14:34 van

| Compound               | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | Curve | b | Coefficients |    | %RSD<br>or R <sup>2</sup> |
|------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|---------------------------|
|                        | Level 1   | Level 2   | Level 3   | Level 4   | Level 5 | Level 6 |       |   | m1           | m2 |                           |
|                        | 5.0000    | 10.0000   |           |           |         |         |       |   |              |    |                           |
|                        | Level 7   | Level 8   |           |           |         |         |       |   |              |    |                           |
| 144 alpha-Terpineol    | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                        | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 125 Safrole            | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                        | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 124 3,4-Dimethylphenol | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                        | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 123 Acetophenone       | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                        | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 122 Furfuraldehyde     | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                        | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 143 1,4-Dioxane        | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                        | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 121 Quinoline          | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                        | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |

ARI Labs, Inc.

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 Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Last Edit : 16-Mar-2023 14:34 van

| Compound                          | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | Curve | b | Coefficients |    | %RSD<br>or R <sup>2</sup> |
|-----------------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|---------------------------|
|                                   | Level 1   | Level 2   | Level 3   | Level 4   | Level 5 | Level 6 |       |   | m1           | m2 |                           |
|                                   | 5.0000    | 10.0000   |           |           |         |         |       |   |              |    |                           |
|                                   | Level 7   | Level 8   |           |           |         |         |       |   |              |    |                           |
| 120 2,3,4,6-Tetrachlorophenol     | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                           |
|                                   | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 119 7,12-Dimethylbenz(a)anthracen | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                           |
|                                   | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 118 Triphenyl Phosphate           | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                           |
|                                   | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 117 Butyl Diphenyl Phosphate      | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                           |
|                                   | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 116 Dibutyl Phenyl Phosphate      | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                           |
|                                   | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 115 Tributyl Phosphate            | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                           |
|                                   | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 114 Beta-Pinene                   | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                           |
|                                   | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |



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 Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Last Edit : 16-Mar-2023 14:34 van

| Compound                          | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | Curve | b | Coefficients |    | %RSD<br>or R <sup>2</sup> |
|-----------------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|---------------------------|
|                                   | Level 1   | Level 2   | Level 3   | Level 4   | Level 5 | Level 6 |       |   | m1           | m2 |                           |
| 113 Diphenyl Oxide                | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                                   | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 112 Biphenyl                      | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                                   | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 111 Azobenzene (1,2-DP-Hydrazine) | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                                   | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 110 Tetrachloroguaiacol           | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                                   | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 109 3,4,5-Trichloroguaiacol       | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                                   | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 108 4,5,6-Trichloroguaiacol       | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                                   | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 107 4,5-Dichloro-2-Methoxyphenol  | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                                   | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |

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 Last Edit : 16-Mar-2023 14:34 van

| Compound                  | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|---------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|----------------|
|                           | Level 1   | Level 2   | Level 3   | Level 4   | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                           | 5.0000    | 10.0000   |           |           |         |         |       |   |              |    |                |
|                           | Level 7   | Level 8   |           |           |         |         |       |   |              |    |                |
| 106 Guaiacol              | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                           | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 105 1-methylnaphthalene   | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                           | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 3 Phenol                  | 1.56149   | 1.65772   | 1.68063   | 1.76515   | 1.75148 | 1.75667 |       |   |              |    |                |
|                           | 1.62297   | 1.51697   |           |           |         |         | AVRG  |   | 1.66414      |    | 5.59099        |
| 4 Bis(2-Chloroethyl)ether | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                           | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 6 2-Chlorophenol          | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                           | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 7 1,3-Dichlorobenzene     | 1.66537   | 1.66694   | 1.59369   | 1.58637   | 1.56403 | 1.55057 |       |   |              |    |                |
|                           | 1.44651   | 1.38404   |           |           |         |         | AVRG  |   | 1.55719      |    | 6.34113        |
| 9 1,4-Dichlorobenzene     | 1.59227   | 1.58693   | 1.53103   | 1.52592   | 1.51543 | 1.50478 |       |   |              |    |                |
|                           | 1.40786   | 1.36136   |           |           |         |         | AVRG  |   | 1.50320      |    | 5.36917        |

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| Compound                        | 0.0500000           | 0.1000000           | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | Curve | b | Coefficients |    | %RSD<br>or R <sup>2</sup> |
|---------------------------------|---------------------|---------------------|-----------|-----------|---------|---------|-------|---|--------------|----|---------------------------|
|                                 | Level 1             | Level 2             | Level 3   | Level 4   | Level 5 | Level 6 |       |   | m1           | m2 |                           |
|                                 | 5.0000              | 10.0000             |           |           |         |         |       |   |              |    |                           |
|                                 | Level 7             | Level 8             |           |           |         |         |       |   |              |    |                           |
| 11 Benzyl alcohol               | 0.78267 <br>1.07868 | 0.82017 <br>1.02169 | 0.87403   | 1.00134   | 1.03041 | 1.10911 |       |   |              |    |                           |
|                                 |                     |                     |           |           |         |         | AVRG  |   | 0.96476      |    | 12.69470                  |
| 12 1,2-Dichlorobenzene          | 1.56064 <br>1.37842 | 1.56075 <br>1.32718 | 1.51672   | 1.51987   | 1.49051 | 1.47242 |       |   |              |    |                           |
|                                 |                     |                     |           |           |         |         | AVRG  |   | 1.47831      |    | 5.70440                   |
| 13 2-Methylphenol               | 1.10796 <br>1.18782 | 1.06982 <br>1.15101 | 1.09063   | 1.18375   | 1.19440 | 1.23938 |       |   |              |    |                           |
|                                 |                     |                     |           |           |         |         | AVRG  |   | 1.15310      |    | 5.09645                   |
| 14 2,2'-oxybis(1-Chloropropane) | ++++ <br>++++       | ++++ <br>++++       | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                           |
|                                 |                     |                     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 15 4-Methylphenol               | 1.03102 <br>1.27388 | 1.10647 <br>1.22012 | 1.13727   | 1.24194   | 1.26988 | 1.30504 |       |   |              |    |                           |
|                                 |                     |                     |           |           |         |         | AVRG  |   | 1.19820      |    | 8.02665                   |
| 16 N-Nitroso-di-n-propylamine   | 0.74420 <br>0.89355 | 0.77640 <br>0.85105 | 0.80427   | 0.88191   | 0.89897 | 0.92866 |       |   |              |    |                           |
|                                 |                     |                     |           |           |         |         | AVRG  |   | 0.84738      |    | 7.74495                   |
| 17 Hexachloroethane             | ++++ <br>++++       | ++++ <br>++++       | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                           |
|                                 |                     |                     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |

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Start Cal Date : 15-MAR-2023 21:12  
 End Cal Date : 16-MAR-2023 01:38  
 Quant Method : ISTD  
 Origin : Force  
 Target Version : 4.14  
 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Last Edit : 16-Mar-2023 14:34 van

| Compound                      | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | Curve | b          | Coefficients |          | %RSD<br>or R^2 |
|-------------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|------------|--------------|----------|----------------|
|                               | Level 1   | Level 2   | Level 3   | Level 4   | Level 5 | Level 6 |       |            | m1           | m2       |                |
|                               | 5.0000    | 10.0000   |           |           |         |         |       |            |              |          |                |
|                               | Level 7   | Level 8   |           |           |         |         |       |            |              |          |                |
| 19 Nitrobenzene               | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |            |              |          |                |
|                               | ++++      | ++++      |           |           |         |         | AVRG  |            | 0.000e+000   |          | 0.000e+000     |
| 20 Isophorone                 | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |            |              |          |                |
|                               | ++++      | ++++      |           |           |         |         | AVRG  |            | 0.000e+000   |          | 0.000e+000     |
| 21 2-Nitrophenol              | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |            |              |          |                |
|                               | ++++      | ++++      |           |           |         |         | AVRG  |            | 0.000e+000   |          | 0.000e+000     |
| 22 2,4-Dimethylphenol         | 0.30360   | 0.32861   | 0.35087   | 0.37480   | 0.37120 | 0.36727 |       |            |              |          |                |
|                               | 0.34198   | 0.32767   |           |           |         |         | AVRG  |            | 0.34575      |          | 7.24468        |
| 23 Bis(2-Chloroethoxy)methane | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |            |              |          |                |
|                               | ++++      | ++++      |           |           |         |         | AVRG  |            | 0.000e+000   |          | 0.000e+000     |
| 24 Benzoic acid               | ++++      | ++++      | 891       | 21037     | 77741   | 285274  |       |            |              |          |                |
|                               | 736328    | 1607035   |           |           |         |         | QUAD  | 0.000e+000 | 5.29174      | -0.43541 | 0.99817        |
| 25 2,4-Dichlorophenol         | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |            |              |          |                |
|                               | ++++      | ++++      |           |           |         |         | AVRG  |            | 0.000e+000   |          | 0.000e+000     |

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 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Last Edit : 16-Mar-2023 14:34 van

| Compound                     | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | Curve | b | Coefficients |    | %RSD<br>or R <sup>2</sup> |
|------------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|---------------------------|
|                              | Level 1   | Level 2   | Level 3   | Level 4   | Level 5 | Level 6 |       |   | m1           | m2 |                           |
|                              | 5.0000    | 10.0000   |           |           |         |         |       |   |              |    |                           |
|                              | Level 7   | Level 8   |           |           |         |         |       |   |              |    |                           |
| 26 1,2,4-Trichlorobenzene    | 0.38459   | 0.36118   | 0.35367   | 0.35642   | 0.34773 | 0.34196 |       |   |              |    |                           |
|                              | 0.32139   | 0.31557   |           |           |         |         | AVRG  |   | 0.34781      |    | 6.34752                   |
| 28 Naphthalene               | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                           |
|                              | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 29 4-Chloroaniline           | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                           |
|                              | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 30 Hexachlorobutadiene       | 0.23044   | 0.21302   | 0.21319   | 0.21525   | 0.21116 | 0.21214 |       |   |              |    |                           |
|                              | 0.19866   | 0.19786   |           |           |         |         | AVRG  |   | 0.21146      |    | 4.82681                   |
| 31 4-Chloro-3-methylphenol   | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                           |
|                              | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 32 2-Methylnaphthalene       | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                           |
|                              | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 33 Hexachlorocyclopentadiene | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                           |
|                              | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |

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 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Last Edit : 16-Mar-2023 14:34 van

| Compound                 | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|--------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|----------------|
|                          | Level 1   | Level 2   | Level 3   | Level 4   | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                          | 5.0000    | 10.0000   |           |           |         |         |       |   |              |    |                |
|                          | Level 7   | Level 8   |           |           |         |         |       |   |              |    |                |
| 34 2,4,6-Trichlorophenol | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                          | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 35 2,4,5-Trichlorophenol | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                          | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 37 2-Chloronaphthalene   | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                          | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 38 2-Nitroaniline        | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                          | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 39 Dimethylphthalate     | 1.27787   | 1.27224   | 1.24048   | 1.29313   | 1.32502 | 1.28149 |       |   |              |    |                |
|                          | 1.22328   | 1.18473   |           |           |         |         | AVRG  |   | 1.26228      |    | 3.49321        |
| 40 Acenaphthylene        | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                          | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 41 2,6-Dinitrotoluene    | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                          | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |

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 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Last Edit : 16-Mar-2023 14:34 van

| Compound              | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|-----------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|----------------|
|                       | Level 1   | Level 2   | Level 3   | Level 4   | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                       | 5.0000    | 10.0000   |           |           |         |         |       |   |              |    |                |
|                       | Level 7   | Level 8   |           |           |         |         |       |   |              |    |                |
| 43 3-Nitroaniline     | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                       | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 44 Acenaphthene       | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                       | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 45 2,4-Dinitrophenol  | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                       | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 46 Dibenzofuran       | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                       | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 47 4-Nitrophenol      | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                       | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 48 2,4-Dinitrotoluene | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                       | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 49 Fluorene           | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                       | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |

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 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Last Edit : 16-Mar-2023 14:34 van

| Compound                      | 0.0500000           | 0.1000000           | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|-------------------------------|---------------------|---------------------|-----------|-----------|---------|---------|-------|---|--------------|----|----------------|
|                               | Level 1             | Level 2             | Level 3   | Level 4   | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                               | 5.0000              | 10.0000             |           |           |         |         |       |   |              |    |                |
|                               | Level 7             | Level 8             |           |           |         |         |       |   |              |    |                |
| 50 Diethylphthalate           | 1.09879 <br>1.35423 | 1.17308 <br>1.35415 | 1.27815   | 1.36289   | 1.42716 | 1.41289 |       |   | 1.30767      |    | 8.92477        |
| 51 4-Chlorophenyl-phenylether | ++++ <br>++++       | ++++ <br>++++       | ++++      | ++++      | ++++    | ++++    |       |   | 0.000e+000   |    | 0.000e+000     |
| 52 4-Nitroaniline             | ++++ <br>++++       | ++++ <br>++++       | ++++      | ++++      | ++++    | ++++    |       |   | 0.000e+000   |    | 0.000e+000     |
| 53 4,6-Dinitro-2-methylphenol | ++++ <br>++++       | ++++ <br>++++       | ++++      | ++++      | ++++    | ++++    |       |   | 0.000e+000   |    | 0.000e+000     |
| 54 N-Nitrosodiphenylamine     | 0.45354 <br>0.54758 | 0.51066 <br>0.51644 | 0.53667   | 0.57168   | 0.58456 | 0.57224 |       |   | 0.53667      |    | 7.99896        |
| 56 4-Bromophenyl-phenylether  | ++++ <br>++++       | ++++ <br>++++       | ++++      | ++++      | ++++    | ++++    |       |   | 0.000e+000   |    | 0.000e+000     |
| 57 Hexachlorobenzene          | 0.25043 <br>0.23339 | 0.25088 <br>0.22020 | 0.24115   | 0.24237   | 0.24203 | 0.24151 |       |   | 0.24025      |    | 4.08944        |



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| Compound               | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | Curve | b          | Coefficients |          | %RSD<br>or R <sup>2</sup> |
|------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|------------|--------------|----------|---------------------------|
|                        | Level 1   | Level 2   | Level 3   | Level 4   | Level 5 | Level 6 |       |            | m1           | m2       |                           |
|                        | 5.0000    | 10.0000   |           |           |         |         |       |            |              |          |                           |
|                        | Level 7   | Level 8   |           |           |         |         |       |            |              |          |                           |
| 58 Pentachlorophenol   | ++++      | 1130      | 3337      | 13495     | 33609   | 93572   |       |            |              |          |                           |
|                        | 215193    | 496304    |           |           |         |         | QUAD  | 0.000e+000 | 7.54154      | -1.29368 | 0.99963                   |
| 60 Phenanthrene        | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |            |              |          |                           |
|                        | ++++      | ++++      |           |           |         |         | AVRG  | 0.000e+000 |              |          | 0.000e+000                |
| 61 Anthracene          | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |            |              |          |                           |
|                        | ++++      | ++++      |           |           |         |         | AVRG  | 0.000e+000 |              |          | 0.000e+000                |
| 62 Carbazole           | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |            |              |          |                           |
|                        | ++++      | ++++      |           |           |         |         | AVRG  | 0.000e+000 |              |          | 0.000e+000                |
| 63 Di-n-butylphthalate | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |            |              |          |                           |
|                        | ++++      | ++++      |           |           |         |         | AVRG  | 0.000e+000 |              |          | 0.000e+000                |
| 64 Fluoranthene        | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |            |              |          |                           |
|                        | ++++      | ++++      |           |           |         |         | AVRG  | 0.000e+000 |              |          | 0.000e+000                |
| 65 Pyrene              | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |            |              |          |                           |
|                        | ++++      | ++++      |           |           |         |         | AVRG  | 0.000e+000 |              |          | 0.000e+000                |

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| Compound                      | 0.0500000      | 0.1000000      | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | Curve | Coefficients |         |          | %RSD<br>or R <sup>2</sup> |
|-------------------------------|----------------|----------------|-----------|-----------|---------|---------|-------|--------------|---------|----------|---------------------------|
|                               | Level 1        | Level 2        | Level 3   | Level 4   | Level 5 | Level 6 |       | b            | m1      | m2       |                           |
|                               | 5.0000         | 10.0000        |           |           |         |         |       |              |         |          |                           |
|                               | Level 7        | Level 8        |           |           |         |         |       |              |         |          |                           |
| 67 Butylbenzylphthalate       | 1336<br>271734 | 3284<br>722761 | 7787      | 24470     | 56297   | 133147  | QUAD  | 0.000e+000   | 1.90264 | -0.15728 | 0.99983                   |
| 68 Benzo(a)anthracene         | ++++<br>++++   | ++++<br>++++   | ++++      | ++++      | ++++    | ++++    | AVRG  | 0.000e+000   |         |          | 0.000e+000                |
| 70 3,3'-Dichlorobenzidine     | ++++<br>++++   | ++++<br>++++   | ++++      | ++++      | ++++    | ++++    | AVRG  | 0.000e+000   |         |          | 0.000e+000                |
| 71 Chrysene                   | ++++<br>++++   | ++++<br>++++   | ++++      | ++++      | ++++    | ++++    | AVRG  | 0.000e+000   |         |          | 0.000e+000                |
| 72 bis(2-Ethylhexyl)phthalate | ++++<br>++++   | ++++<br>++++   | ++++      | ++++      | ++++    | ++++    | AVRG  | 0.000e+000   |         |          | 0.000e+000                |
| 73 Di-n-octylphthalate        | ++++<br>++++   | ++++<br>++++   | ++++      | ++++      | ++++    | ++++    | AVRG  | 0.000e+000   |         |          | 0.000e+000                |
| 74 Benzo(b)fluoranthene       | ++++<br>++++   | ++++<br>++++   | ++++      | ++++      | ++++    | ++++    | AVRG  | 0.000e+000   |         |          | 0.000e+000                |

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| Compound                  | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | Curve | b          | Coefficients |         | %RSD<br>or R^2 |
|---------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|------------|--------------|---------|----------------|
|                           | Level 1   | Level 2   | Level 3   | Level 4   | Level 5 | Level 6 |       |            | m1           | m2      |                |
|                           | 5.0000    | 10.0000   |           |           |         |         |       |            |              |         |                |
|                           | Level 7   | Level 8   |           |           |         |         |       |            |              |         |                |
| 75 Benzo(k)fluoranthene   | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |            |              |         |                |
|                           | +++++     | +++++     |           |           |         |         | AVRG  |            | 0.000e+000   |         | 0.000e+000     |
| 76 Benzo(a)pyrene         | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |            |              |         |                |
|                           | +++++     | +++++     |           |           |         |         | AVRG  |            | 0.000e+000   |         | 0.000e+000     |
| 78 Indeno(1,2,3-cd)pyrene | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |            |              |         |                |
|                           | +++++     | +++++     |           |           |         |         | AVRG  |            | 0.000e+000   |         | 0.000e+000     |
| 79 Dibenzo(a,h)anthracene | 4785      | 11218     | 24266     | 72052     | 155363  | 368157  |       |            |              |         |                |
|                           | 751404    | 1559411   |           |           |         |         | QUAD  | 0.000e+000 | 0.76135      | 0.01405 | 0.99989        |
| 80 Benzo(g,h,i)perylene   | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |            |              |         |                |
|                           | +++++     | +++++     |           |           |         |         | AVRG  |            | 0.000e+000   |         | 0.000e+000     |
| 90 N-Nitrosodimethylamine | 0.74719   | 0.78006   | 0.77776   | 0.82263   | 0.80430 | 0.80649 |       |            |              |         |                |
|                           | 0.73835   | 0.67774   |           |           |         |         | AVRG  |            | 0.76932      |         | 6.11057        |
| 91 Aniline                | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |            |              |         |                |
|                           | +++++     | +++++     |           |           |         |         | AVRG  |            | 0.000e+000   |         | 0.000e+000     |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 21:12  
 End Cal Date : 16-MAR-2023 01:38  
 Quant Method : ISTD  
 Origin : Force  
 Target Version : 4.14  
 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Last Edit : 16-Mar-2023 14:34 van

| Compound                 | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|--------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|----------------|
|                          | Level 1   | Level 2   | Level 3   | Level 4   | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                          | 5.0000    | 10.0000   |           |           |         |         |       |   |              |    |                |
|                          | Level 7   | Level 8   |           |           |         |         |       |   |              |    |                |
| 92 1,2-Diphenylhydrazine | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                          | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 93 Benzidine             | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                          | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 96 p-Cymene              | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                          | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 97 Caffeine              | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                          | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 98 Retene                | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                          | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 99 Perylene              | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                          | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| 100 3-beta-Coprostanol   | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                          | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 21:12  
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 Quant Method : ISTD  
 Origin : Force  
 Target Version : 4.14  
 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Last Edit : 16-Mar-2023 14:34 van

| Compound               | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | Curve | b | Coefficients |    | %RSD<br>or R <sup>2</sup> |
|------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|---------------------------|
|                        | Level 1   | Level 2   | Level 3   | Level 4   | Level 5 | Level 6 |       |   | m1           | m2 |                           |
|                        | 5.0000    | 10.0000   |           |           |         |         |       |   |              |    |                           |
|                        | Level 7   | Level 8   |           |           |         |         |       |   |              |    |                           |
| 101 Cholesterol        | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                        | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 102 beta-Sitosterol    | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                        | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| 103 Pyridine           | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                        | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| \$ 1 2-Fluorophenol    | 1.09685   | 1.18250   | 1.19845   | 1.27871   | 1.28736 | 1.29411 |       |   |              |    |                           |
|                        | 1.20452   | 1.16136   |           |           |         |         | AVRG  |   | 1.21298      |    | 5.72847                   |
| \$ 145 d8-1,4-Dioxane  | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                        | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| \$ 2 Phenol-d5         | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                        | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |
| \$ 5 2-Chlorophenol-d4 | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                           |
|                        | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000                |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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 Origin : Force  
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 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Last Edit : 16-Mar-2023 14:34 van

| Compound                     | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|------------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|----------------|
|                              | Level 1   | Level 2   | Level 3   | Level 4   | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                              | 5.0000    | 10.0000   |           |           |         |         |       |   |              |    |                |
|                              | Level 7   | Level 8   |           |           |         |         |       |   |              |    |                |
| \$ 10 1,2-Dichlorobenzene-d4 | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                |
|                              | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| \$ 18 Nitrobenzene-d5        | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                |
|                              | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| \$ 36 2-Fluorobiphenyl       | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                |
|                              | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| \$ 55 2,4,6-Tribromophenol   | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                |
|                              | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| \$ 66 Terphenyl-d14          | 0.63632   | 0.60853   | 0.61745   | 0.64847   | 0.65066 | 0.69381 |       |   |              |    |                |
|                              | 0.68370   | 0.67499   |           |           |         |         | AVRG  |   | 0.65174      |    | 4.72002        |
| \$ 85 p-Cresol-d4            | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                |
|                              | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| \$ 86 Anthracene-d10         | ++++      | ++++      | ++++      | ++++      | ++++    | ++++    |       |   |              |    |                |
|                              | ++++      | ++++      |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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 Quant Method : ISTD  
 Origin : Force  
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 Integrator : HP RTE  
 Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Last Edit : 16-Mar-2023 14:34 van

| Compound                        | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000  | 2.5000  | Curve | b | Coefficients |    | %RSD<br>or R^2 |
|---------------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|----------------|
|                                 | Level 1   | Level 2   | Level 3   | Level 4   | Level 5 | Level 6 |       |   | m1           | m2 |                |
|                                 | 5.0000    | 10.0000   |           |           |         |         |       |   |              |    |                |
|                                 | Level 7   | Level 8   |           |           |         |         |       |   |              |    |                |
| \$ 87 Fluoranthene-d10          | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                                 | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| \$ 88 Dibenz(a,h)anthracene-d14 | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                                 | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| \$ 89 Diphenyl-d10              | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                                 | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |
| \$ 95 D10-1-methylnaphthalene   | +++++     | +++++     | +++++     | +++++     | +++++   | +++++   |       |   |              |    |                |
|                                 | +++++     | +++++     |           |           |         |         | AVRG  |   | 0.000e+000   |    | 0.000e+000     |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 21:12  
End Cal Date : 16-MAR-2023 01:38  
Quant Method : ISTD  
Origin : Force  
Target Version : 4.14  
Integrator : HP RTE  
Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
Last Edit : 16-Mar-2023 14:34 van

| Curve    | Formula                     | Units    |
|----------|-----------------------------|----------|
| Averaged | Amt = Rsp/m1                | Response |
| Quad     | Amt = b + m1*Rsp + m2*Rsp^2 | Response |



ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b
Inst ID: nt10.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07 RT08
FILENAME: NT10031503S NT10031504S NT10031505S NT10031506S NT10031507S NT10031508S NT10031509S NT10031510S
INJ. DATE: 15-MAR-2023 15-MAR-2023 15-MAR-2023 15-MAR-2023 15-MAR-2023 16-MAR-2023 16-MAR-2023 16-MAR-2023
INJ. TIME: 21:12 21:50 22:28 23:06 23:44 00:22 01:00 01:38

Table with 13 columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, RT08, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows include various chemical compounds like 2-Fluorophenol, Chlorobenzilate, Isodrin, etc.

Reviewer 1 \_\_\_\_\_ Date: \_\_\_\_\_
Reviewer 2 \_\_\_\_\_ Date: \_\_\_\_\_

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b  
 Inst ID: nt10.i

| Compound                    | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | RT07  | RT08  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 127 2-Isopropyl-naphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 23.349   | 22.849-23.849 | +++++  | +++++   |
| 126 N-Tetradecane           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 22.474   | 21.974-22.974 | +++++  | +++++   |
| 144 alpha-Terpineol         | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.191   | 10.691-11.691 | +++++  | +++++   |
| 125 Safrole                 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 17.779   | 17.279-18.279 | +++++  | +++++   |
| 124 3,4-Dimethylphenol      | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 16.310   | 15.810-16.810 | +++++  | +++++   |
| 123 Acetophenone            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 17.707   | 17.207-18.207 | +++++  | +++++   |
| 122 Furfuraldehyde          | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.921    | 8.421-9.421   | +++++  | +++++   |
| 143 1,4-Dioxane             | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 3.736    | 3.236-4.236   | +++++  | +++++   |
| 145 d8-1,4-Dioxane          | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 2.914    | 2.414-3.414   | +++++  | +++++   |
| 121 Quinoline               | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.148   | 19.648-20.648 | +++++  | +++++   |
| 120 2,3,4,6-Tetrachlorophe  | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 15.588   | 15.088-16.088 | +++++  | +++++   |
| 119 7,12-Dimethylbenz(a)an  | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 38.587   | 38.087-39.087 | +++++  | +++++   |
| 118 Triphenyl Phosphate     | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.382   | 19.882-20.882 | +++++  | +++++   |
| 117 Butyl Diphenyl Phospha  | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 18.734   | 18.234-19.234 | +++++  | +++++   |
| 116 Dibutyl Phenyl Phospha  | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 16.987   | 16.487-17.487 | +++++  | +++++   |
| 115 Tributyl Phosphate      | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 15.204   | 14.704-15.704 | +++++  | +++++   |
| 114 Beta-Pinene             | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.540   | 14.040-15.040 | +++++  | +++++   |
| 113 Diphenyl Oxide          | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 21.586   | 21.086-22.086 | +++++  | +++++   |
| 112 Biphenyl                | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 17.692   | 17.192-18.192 | +++++  | +++++   |
| 111 Azobenzene (1,2-DP-Hyd  | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 16.268   | 15.768-16.768 | +++++  | +++++   |
| 110 Tetrachloroguaiacol     | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 18.055   | 17.555-18.555 | +++++  | +++++   |
| 109 3,4,5-Trichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 17.228   | 16.728-17.728 | +++++  | +++++   |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b  
Inst ID: nt10.i

| Compound                     | RT01   | RT02   | RT03   | RT04   | RT05   | RT06   | RT07   | RT08   | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 108 4,5,6-Trichloroguaiaco   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 16.517   | 16.017-17.017 | +++++  | +++++   |
| 107 4,5-Dichloro-2-Methoxy   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 14.803   | 14.303-15.303 | +++++  | +++++   |
| 106 Guaiacol                 | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 11.843   | 11.343-12.343 | +++++  | +++++   |
| 105 1-methylnaphthalene      | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 12.927   | 12.427-13.427 | +++++  | +++++   |
| \$ 2 Phenol-d5               | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 8.235    | 7.735-8.735   | +++++  | +++++   |
| 3 Phenol                     | 8.664  | 8.665  | 8.657  | 8.657  | 8.657  | 8.657  | 8.657  | 8.665  | 8.665    | 8.165-9.165   | 8.660  | 0.004   |
| 4 Bis(2-Chloroethyl)ethe     | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 8.397    | 7.897-8.897   | +++++  | +++++   |
| \$ 5 2-Chlorophenol-d4       | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 8.490    | 7.990-8.990   | +++++  | +++++   |
| 6 2-Chlorophenol             | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 8.521    | 8.021-9.021   | +++++  | +++++   |
| 7 1,3-Dichlorobenzene        | 9.236  | 9.237  | 9.237  | 9.237  | 9.237  | 9.237  | 9.237  | 9.237  | 9.237    | 8.737-9.737   | 9.237  | 0.000   |
| * 8 1,4-Dichlorobenzene-d4   | 9.306  | 9.299  | 9.299  | 9.299  | 9.299  | 9.299  | 9.299  | 9.299  | 9.299    | 8.799-9.799   | 9.300  | 0.003   |
| 9 1,4-Dichlorobenzene        | 9.330  | 9.330  | 9.330  | 9.330  | 9.330  | 9.330  | 9.330  | 9.330  | 9.330    | 8.830-9.830   | 9.330  | 0.000   |
| \$ 10 1,2-Dichlorobenzene-d4 | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 9.230    | 8.730-9.730   | +++++  | +++++   |
| 11 Benzyl alcohol            | 9.562  | 9.563  | 9.563  | 9.563  | 9.563  | 9.563  | 9.563  | 9.570  | 9.570    | 9.070-10.070  | 9.564  | 0.003   |
| 12 1,2-Dichlorobenzene       | 9.687  | 9.687  | 9.687  | 9.687  | 9.687  | 9.687  | 9.687  | 9.687  | 9.687    | 9.187-10.187  | 9.687  | 0.000   |
| 13 2-Methylphenol            | 9.780  | 9.772  | 9.772  | 9.772  | 9.772  | 9.772  | 9.772  | 9.772  | 9.772    | 9.272-10.272  | 9.773  | 0.003   |
| 14 2,2'-oxybis(1-Chloropr    | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 9.413    | 8.913-9.913   | +++++  | +++++   |
| 15 4-Methylphenol            | 10.044 | 10.036 | 10.036 | 10.036 | 10.036 | 10.036 | 10.036 | 10.036 | 10.036   | 9.536-10.536  | 10.037 | 0.003   |
| 16 N-Nitroso-di-n-propyla    | 10.121 | 10.114 | 10.114 | 10.114 | 10.114 | 10.114 | 10.114 | 10.114 | 10.114   | 9.614-10.614  | 10.115 | 0.003   |
| 17 Hexachloroethane          | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 9.809    | 9.309-10.309  | +++++  | +++++   |
| \$ 18 Nitrobenzene-d5        | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 9.917    | 9.417-10.417  | +++++  | +++++   |
| 19 Nitrobenzene              | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 9.948    | 9.448-10.448  | +++++  | +++++   |
| 20 Isophorone                | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 10.399   | 9.899-10.899  | +++++  | +++++   |
| 21 2-Nitrophenol             | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 10.575   | 10.075-11.075 | +++++  | +++++   |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m

Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b

Inst ID: nt10.i

| Compound                  | RT01   | RT02   | RT03   | RT04   | RT05   | RT06   | RT07   | RT08   | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 22 2,4-Dimethylphenol     | 11.086 | 11.086 | 11.079 | 11.078 | 11.086 | 11.079 | 11.086 | 11.087 | 11.087   | 10.587-11.587 | 11.083 | 0.004   |
| 23 Bis(2-Chloroethoxy)met | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 10.830   | 10.330-11.330 | +++++  | +++++   |
| 24 Benzoic acid           | 11.332 | 11.273 | 11.223 | 11.188 | 11.171 | 11.189 | +++++  | +++++  | 11.189   | 10.689-11.689 | 11.229 | 0.062   |
| 25 2,4-Dichlorophenol     | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 11.033   | 10.533-11.533 | +++++  | +++++   |
| 26 1,2,4-Trichlorobenzene | 11.689 | 11.690 | 11.691 | 11.689 | 11.690 | 11.691 | 11.690 | 11.690 | 11.690   | 11.190-12.190 | 11.690 | 0.001   |
| * 27 Naphthalene-d8       | 11.782 | 11.775 | 11.775 | 11.774 | 11.775 | 11.775 | 11.775 | 11.775 | 11.775   | 11.275-12.275 | 11.776 | 0.003   |
| 28 Naphthalene            | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 11.326   | 10.826-11.826 | +++++  | +++++   |
| 29 4-Chloroaniline        | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 11.457   | 10.957-11.957 | +++++  | +++++   |
| 30 Hexachlorobutadiene    | 12.176 | 12.169 | 12.169 | 12.176 | 12.176 | 12.169 | 12.176 | 12.169 | 12.169   | 11.669-12.669 | 12.173 | 0.004   |
| 31 4-Chloro-3-methylpheno | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 12.432   | 11.932-12.932 | +++++  | +++++   |
| 32 2-Methylnaphthalene    | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 12.710   | 12.210-13.210 | +++++  | +++++   |
| 33 Hexachlorocyclopentadi | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 13.182   | 12.682-13.682 | +++++  | +++++   |
| 34 2,4,6-Trichlorophenol  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 13.330   | 12.830-13.830 | +++++  | +++++   |
| 35 2,4,5-Trichlorophenol  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 13.415   | 12.915-13.915 | +++++  | +++++   |
| \$ 36 2-Fluorobiphenyl    | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 13.484   | 12.984-13.984 | +++++  | +++++   |
| 37 2-Chloronaphthalene    | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 13.686   | 13.186-14.186 | +++++  | +++++   |
| 38 2-Nitroaniline         | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 13.941   | 13.441-14.441 | +++++  | +++++   |
| 39 Dimethylphthalate      | 14.885 | 14.877 | 14.878 | 14.877 | 14.877 | 14.878 | 14.877 | 14.878 | 14.878   | 14.378-15.378 | 14.878 | 0.003   |
| 40 Acenaphthylene         | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 14.545   | 14.045-15.045 | +++++  | +++++   |
| 41 2,6-Dinitrotoluene     | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 14.506   | 14.006-15.006 | +++++  | +++++   |
| * 42 Acenaphthene-d10     | 15.388 | 15.380 | 15.381 | 15.388 | 15.388 | 15.381 | 15.388 | 15.381 | 15.381   | 14.881-15.881 | 15.384 | 0.004   |
| 43 3-Nitroaniline         | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 14.785   | 14.285-15.285 | +++++  | +++++   |
| 44 Acenaphthene           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 14.924   | 14.424-15.424 | +++++  | +++++   |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b  
Inst ID: nt10.i

| Compound                  | RT01   | RT02   | RT03   | RT04   | RT05   | RT06   | RT07   | RT08   | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 45 2,4-Dinitrophenol      | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 15.001   | 14.501-15.501 | +++++  | +++++   |
| 46 Dibenzofuran           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 15.248   | 14.748-15.748 | +++++  | +++++   |
| 47 4-Nitrophenol          | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 15.171   | 14.671-15.671 | +++++  | +++++   |
| 48 2,4-Dinitrotoluene     | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 15.302   | 14.802-15.802 | +++++  | +++++   |
| 49 Fluorene               | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 15.952   | 15.452-16.452 | +++++  | +++++   |
| 50 Diethylphthalate       | 16.339 | 16.331 | 16.332 | 16.331 | 16.331 | 16.324 | 16.331 | 16.324 | 16.324   | 15.824-16.824 | 16.330 | 0.005   |
| 51 4-Chlorophenyl-phenyle | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 15.952   | 15.452-16.452 | +++++  | +++++   |
| 52 4-Nitroaniline         | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 16.037   | 15.537-16.537 | +++++  | +++++   |
| 53 4,6-Dinitro-2-methylph | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 16.145   | 15.645-16.645 | +++++  | +++++   |
| 54 N-Nitrosodiphenylamine | 16.724 | 16.717 | 16.718 | 16.724 | 16.717 | 16.718 | 16.717 | 16.718 | 16.718   | 16.218-17.218 | 16.719 | 0.003   |
| 55 2,4,6-Tribromophenol   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 16.477   | 15.977-16.977 | +++++  | +++++   |
| 56 4-Bromophenyl-phenylet | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 16.939   | 16.439-17.439 | +++++  | +++++   |
| 57 Hexachlorobenzene      | 17.797 | 17.797 | 17.798 | 17.797 | 17.797 | 17.790 | 17.797 | 17.798 | 17.798   | 17.298-18.298 | 17.797 | 0.003   |
| 58 Pentachlorophenol      | 18.153 | 18.146 | 18.154 | 18.153 | 18.154 | 18.154 | 18.154 | 18.154 | 18.154   | 17.654-18.654 | 18.153 | 0.003   |
| 59 Phenanthrene-d10       | 18.424 | 18.417 | 18.425 | 18.424 | 18.424 | 18.418 | 18.424 | 18.417 | 18.417   | 17.917-18.917 | 18.422 | 0.004   |
| 60 Phenanthrene           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 17.899   | 17.399-18.399 | +++++  | +++++   |
| 61 Anthracene             | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 17.991   | 17.491-18.491 | +++++  | +++++   |
| 62 Carbazole              | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 18.324   | 17.824-18.824 | +++++  | +++++   |
| 63 Di-n-butylphthalate    | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 19.152   | 18.652-19.652 | +++++  | +++++   |
| 64 Fluoranthene           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 20.289   | 19.789-20.789 | +++++  | +++++   |
| 65 Pyrene                 | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 20.715   | 20.215-21.215 | +++++  | +++++   |
| 66 Terphenyl-d14          | 21.542 | 21.542 | 21.543 | 21.542 | 21.542 | 21.543 | 21.542 | 21.543 | 21.543   | 21.043-22.043 | 21.543 | 0.000   |
| 67 Butylbenzylphthalate   | 22.464 | 22.456 | 22.465 | 22.464 | 22.464 | 22.465 | 22.464 | 22.465 | 22.465   | 21.965-22.965 | 22.463 | 0.003   |
| 68 Benzo(a)anthracene     | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 22.875   | 22.375-23.375 | +++++  | +++++   |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b  
Inst ID: nt10.i

| Compound                     | RT01   | RT02   | RT03   | RT04   | RT05   | RT06   | RT07   | RT08   | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| * 69 Chrysene-d12            | 23.455 | 23.455 | 23.456 | 23.455 | 23.455 | 23.456 | 23.455 | 23.456 | 23.456   | 22.956-23.956 | 23.455 | 0.000   |
| 70 3,3'-Dichlorobenzidine    | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 22.844   | 22.344-23.344 | +++++  | +++++   |
| 71 Chrysene                  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 22.952   | 22.452-23.452 | +++++  | +++++   |
| 72 bis(2-Ethylhexyl)phtha    | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 23.007   | 22.507-23.507 | +++++  | +++++   |
| 73 Di-n-octylphthalate       | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 23.990   | 23.490-24.490 | +++++  | +++++   |
| 74 Benzo(b)fluoranthene      | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 24.687   | 24.187-25.187 | +++++  | +++++   |
| 75 Benzo(k)fluoranthene      | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 24.725   | 24.225-25.225 | +++++  | +++++   |
| 76 Benzo(a)pyrene            | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 25.283   | 24.783-25.783 | +++++  | +++++   |
| * 77 Perylene-d12            | 26.188 | 26.188 | 26.189 | 26.188 | 26.188 | 26.181 | 26.188 | 26.189 | 26.189   | 25.689-26.689 | 26.187 | 0.003   |
| 78 Indeno(1,2,3-cd)pyrene    | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 27.794   | 27.294-28.294 | +++++  | +++++   |
| 79 Dibenzo(a,h)anthracene    | 29.033 | 29.018 | 29.019 | 29.010 | 29.010 | 29.003 | 29.010 | 29.019 | 29.019   | 28.519-29.519 | 29.015 | 0.009   |
| 80 Benzo(g,h,i)perylene      | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 28.494   | 27.994-28.994 | +++++  | +++++   |
| \$ 85 p-Cresol-d4            | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 17.238   | 16.738-17.738 | +++++  | +++++   |
| \$ 86 Anthracene-d10         | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 29.316   | 28.816-29.816 | +++++  | +++++   |
| \$ 87 Fluoranthene-d10       | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 26.007   | 25.507-26.507 | +++++  | +++++   |
| \$ 88 Dibenz(a,h)anthracene- | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 44.609   | 44.109-45.109 | +++++  | +++++   |
| \$ 89 Diphenyl-d10           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 16.085   | 15.585-16.585 | +++++  | +++++   |
| 90 N-Nitrosodimethylamine    | 4.941  | 4.933  | 4.926  | 4.941  | 4.941  | 4.941  | 4.941  | 4.949  | 4.949    | 4.449-5.449   | 4.939  | 0.007   |
| 91 Aniline                   | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 8.305    | 7.805-8.805   | +++++  | +++++   |
| 92 1,2-Diphenylhydrazine     | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 21.615   | 21.115-22.115 | +++++  | +++++   |
| 93 Benzidine                 | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 20.529   | 20.029-21.029 | +++++  | +++++   |
| \$ 95 D10-1-methylnaphthalen | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 17.686   | 17.186-18.186 | +++++  | +++++   |
| 96 p-Cymene                  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 14.540   | 14.040-15.040 | +++++  | +++++   |
| 97 Caffeine                  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 26.957   | 26.457-27.457 | +++++  | +++++   |

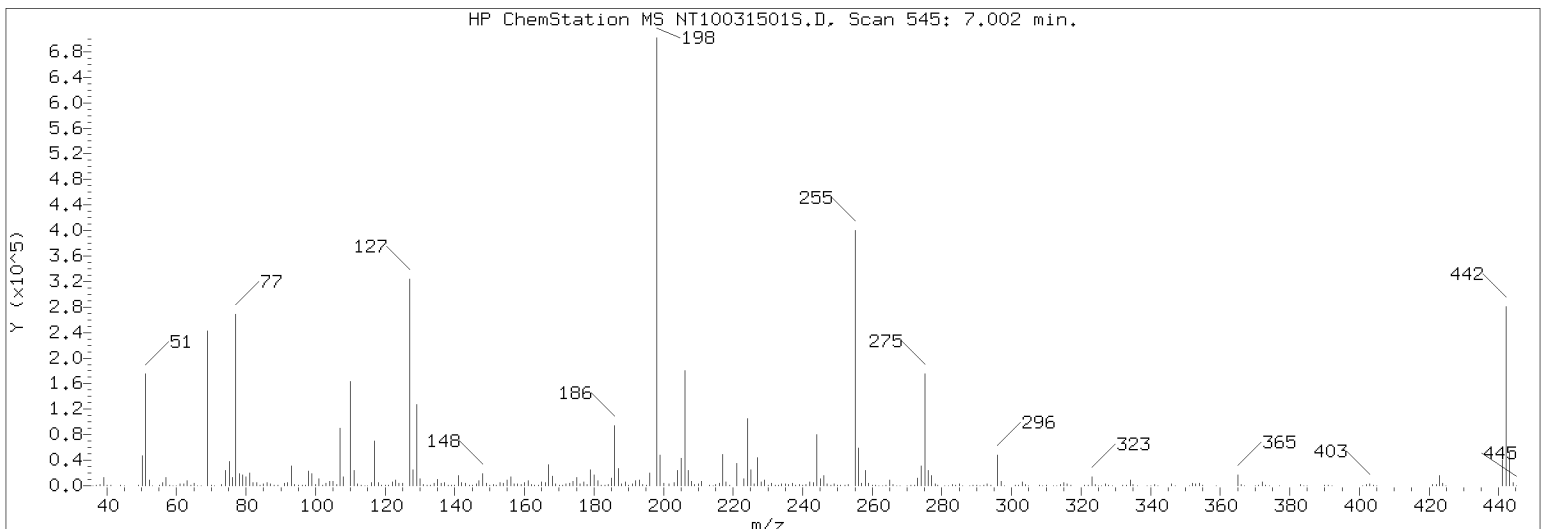
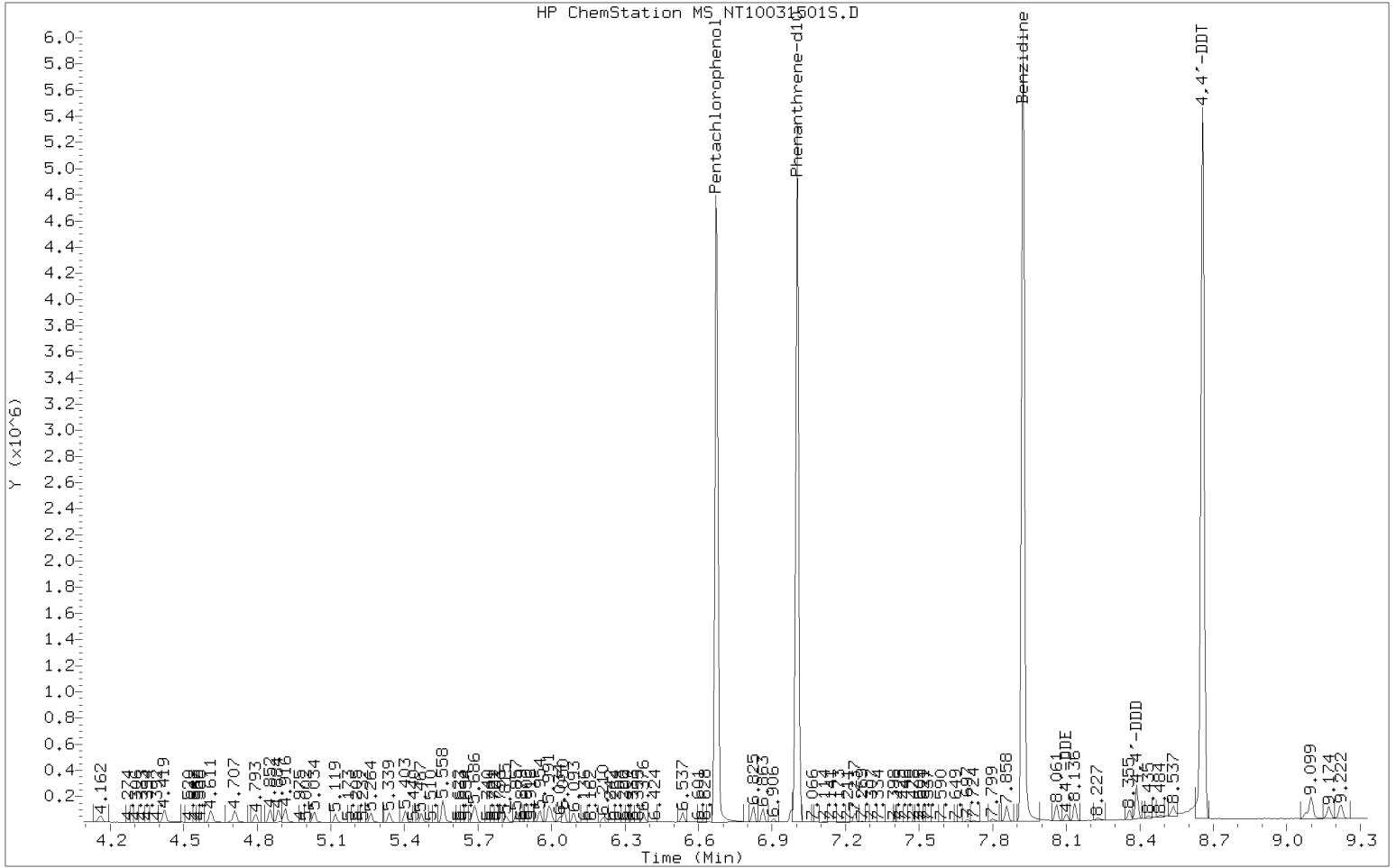
ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b  
Inst ID: nt10.i

| Compound               | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | RT07  | RT08  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 98 Retene              | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 19.609   | 19.109-20.109 | +++++  | +++++   |
| 99 Perylene            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 25.438   | 24.938-25.938 | +++++  | +++++   |
| 100 3-beta-Coprostanol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 26.384   | 25.884-26.884 | +++++  | +++++   |
| 101 Cholesterol        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 43.881   | 43.381-44.381 | +++++  | +++++   |
| 102 beta-Sitosterol    | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 45.573   | 45.073-46.073 | +++++  | +++++   |
| 103 Pyridine           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.535    | 4.035-5.035   | +++++  | +++++   |

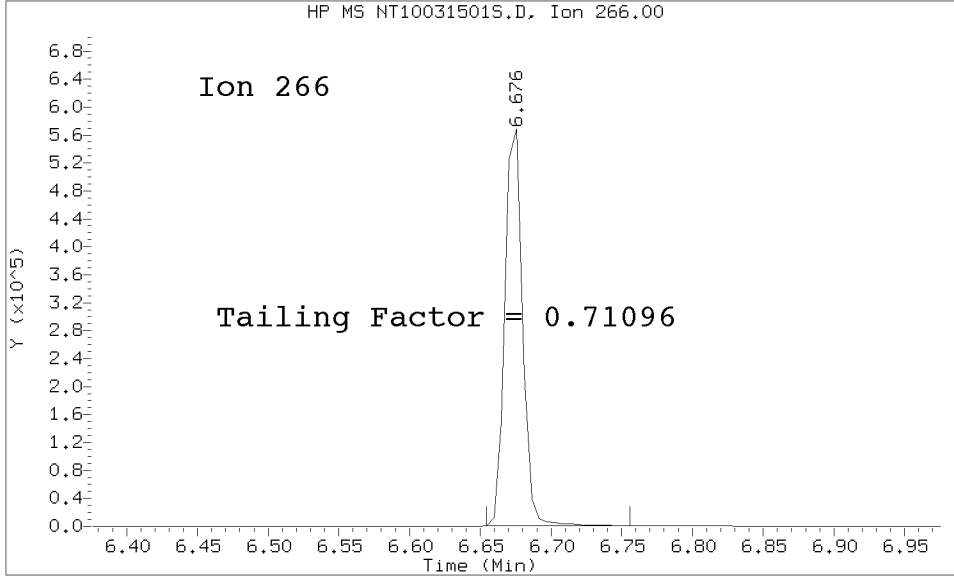
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230315.b/20230315.b/NT10031501S.D/NT10031501S.D  
 Method Used: \20230315.b\20230315.b\DFTPP8270E.m Inst: nt10  
 Injection Date: 15-MAR-2023 20:19 Operator: JGR  
 Sample Info: SLC0238-TUN1 SLC0238-TUN1  
 Report Date: 03/16/2023 14:49





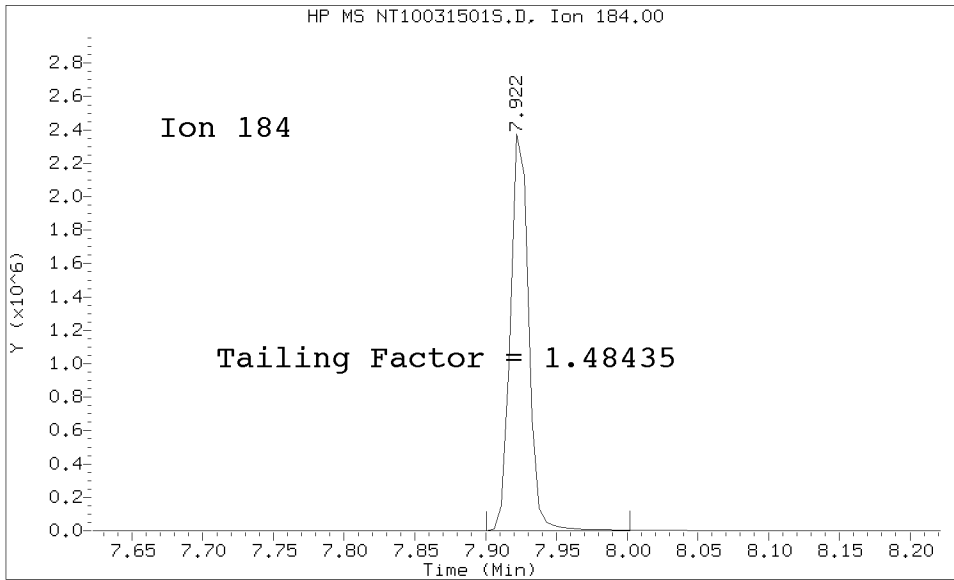
Datafile Analyzed: /20230315.b/20230315.b/NT10031501S.D/NT10031501S.D  
Method Used: \20230315.b\20230315.b\DFTPP8270E.m\sw846ddt.m Inst: nt10  
Injection Date: 15-MAR-2023 20:19 Operator: JGR  
Sample Info: SEQ-TUN1  
Report Date: 03/16/2023 14:49



Pentachlorophenol

=====  
Exp. RT = 6.676  
Found RT = 6.676

Tail Factor = 0.711 Maximum Allowed = 2.0



Benzidine

=====  
Exp. RT = 7.922  
Found RT = 7.922

Tail Factor = 1.484 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

| Compound          | Tail Factor | Max Allowed | Test |
|-------------------|-------------|-------------|------|
| Pentachlorophenol | 0.7109557   | 2.000       | PASS |
| Benzidine         | 1.4843493   | 2.000       | PASS |

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

| Compound      | Response | %Breakdown | Max Allowed | Test |
|---------------|----------|------------|-------------|------|
| 4,4-DDT       | 962640   |            |             | N/A  |
| 4,4-DDE       | 5158     | 0.5        | 20.0        | PASS |
| 4,4-DDD       | 41277    | 4.1        | 20.0        | PASS |
| 4,4-DDD + DDE | 46435    | 4.6        | 20.0        | PASS |

Tuning Sample, nt10.i/20230315.b/20230315.b/NT10031501S.D, \*\*\* PASSED \*\*\*

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00               |
| 68  | Less than 2.00% of mass 69         | 0.14 ( 0.37)         |
| 69  | Mass 69 relative abundance         | 36.50                |
| 70  | Less than 2.00% of mass 69         | 0.18 ( 0.50)         |
| 197 | Less than 2.00% of mass 198        | 0.00                 |
| 199 | 5.00 - 9.00% of mass 198           | 6.88                 |
| 365 | 1.00 - 100.00% of mass 198         | 2.52                 |
| 441 | Less than 150.00% of mass 443      | 6.11 ( 77.09)        |
| 442 | Less than 200.00% of mass 198      | 42.80                |
| 443 | 15.00 - 24.00% of mass 442         | 7.92 ( 18.52)        |

Data File: NT10031501S.D  
 Spectrum: Avg. Scans 544-546 ( 7.00), Background Scan 536  
 Location of Maximum: 198.00  
 Number of points: 316

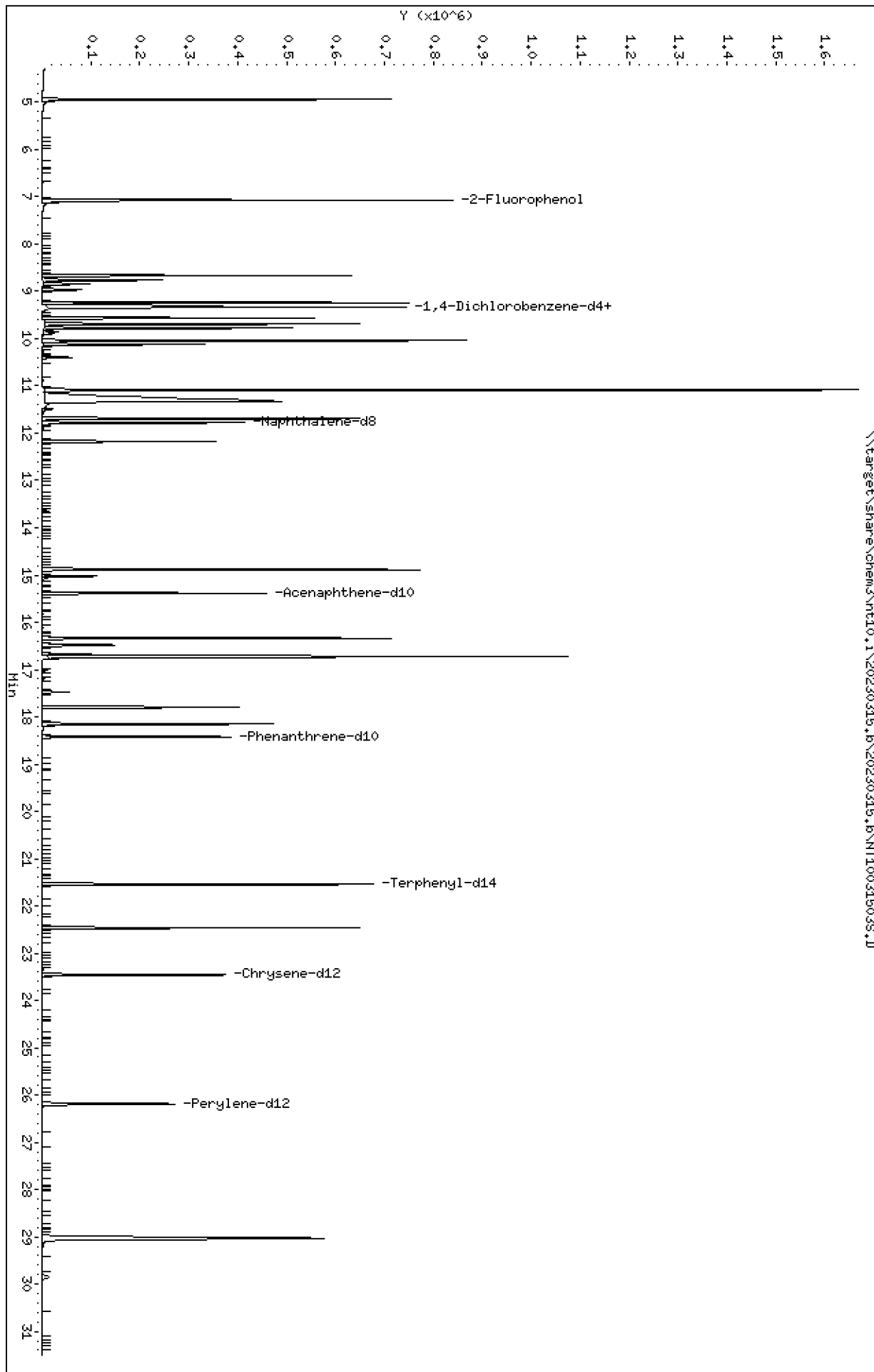
| m/z   | Y      | m/z    | Y      | m/z    | Y      | m/z    | Y     |
|-------|--------|--------|--------|--------|--------|--------|-------|
| 36.00 | 226    | 124.00 | 3185   | 207.00 | 17112  | 293.00 | 2318  |
| 37.00 | 575    | 125.00 | 2909   | 208.00 | 4722   | 294.00 | 588   |
| 38.00 | 1820   | 127.00 | 243264 | 209.00 | 1586   | 295.00 | 171   |
| 39.00 | 10159  | 128.00 | 18696  | 210.00 | 2002   | 296.00 | 36168 |
| 40.00 | 405    | 129.00 | 96304  | 211.00 | 5093   | 297.00 | 5056  |
| 41.00 | 312    | 130.00 | 8257   | 213.00 | 371    | 298.00 | 351   |
| 42.00 | 59     | 131.00 | 1626   | 214.00 | 74     | 301.00 | 422   |
| 45.00 | 283    | 132.00 | 820    | 215.00 | 1549   | 302.00 | 552   |
| 49.00 | 910    | 133.00 | 415    | 216.00 | 2822   | 303.00 | 4130  |
| 50.00 | 35800  | 134.00 | 2800   | 217.00 | 36520  | 304.00 | 1107  |
| 51.00 | 136000 | 135.00 | 7704   | 218.00 | 4515   | 305.00 | 126   |
| 52.00 | 7201   | 136.00 | 3195   | 219.00 | 360    | 308.00 | 532   |
| 53.00 | 294    | 137.00 | 3970   | 221.00 | 25672  | 309.00 | 330   |
| 55.00 | 668    | 138.00 | 948    | 222.00 | 2863   | 310.00 | 461   |
| 56.00 | 4206   | 139.00 | 563    | 223.00 | 8094   | 312.00 | 63    |
| 57.00 | 9877   | 140.00 | 1193   | 224.00 | 76160  | 313.00 | 360   |
| 58.00 | 478    | 141.00 | 12476  | 225.00 | 18680  | 314.00 | 1762  |
| 59.00 | 106    | 142.00 | 3876   | 226.00 | 2197   | 315.00 | 4011  |
| 60.00 | 125    | 143.00 | 2757   | 227.00 | 32752  | 316.00 | 2200  |
| 61.00 | 1897   | 144.00 | 726    | 228.00 | 4949   | 317.00 | 416   |
| 62.00 | 2103   | 145.00 | 710    | 229.00 | 6725   | 321.00 | 1068  |
| 63.00 | 6654   | 146.00 | 2200   | 230.00 | 933    | 322.00 | 491   |
| 64.00 | 895    | 147.00 | 6157   | 231.00 | 2854   | 323.00 | 10541 |
| 65.00 | 3279   | 148.00 | 13642  | 232.00 | 574    | 324.00 | 1817  |
| 66.00 | 188    | 149.00 | 2992   | 233.00 | 660    | 325.00 | 178   |
| 67.00 | 249    | 150.00 | 753    | 234.00 | 2022   | 326.00 | 218   |
| 68.00 | 704    | 151.00 | 1678   | 235.00 | 2475   | 327.00 | 2103  |
| 69.00 | 189184 | 152.00 | 893    | 236.00 | 1621   | 328.00 | 1092  |
| 70.00 | 943    | 153.00 | 4091   | 237.00 | 2803   | 329.00 | 211   |
| 71.00 | 156    | 154.00 | 3154   | 238.00 | 375    | 332.00 | 739   |
| 73.00 | 1307   | 155.00 | 6743   | 239.00 | 1387   | 333.00 | 975   |
| 74.00 | 18768  | 156.00 | 10344  | 240.00 | 943    | 334.00 | 6536  |
| 75.00 | 30000  | 157.00 | 2091   | 241.00 | 1718   | 335.00 | 1733  |
| 76.00 | 10364  | 158.00 | 2204   | 242.00 | 4096   | 336.00 | 201   |
| 77.00 | 207552 | 159.00 | 1689   | 243.00 | 3931   | 339.00 | 148   |
| 78.00 | 14246  | 160.00 | 3864   | 244.00 | 58560  | 340.00 | 135   |
| 79.00 | 13356  | 161.00 | 5891   | 245.00 | 7760   | 341.00 | 1142  |
| 80.00 | 10539  | 162.00 | 1637   | 246.00 | 11941  | 342.00 | 277   |
| 81.00 | 15173  | 163.00 | 475    | 247.00 | 2526   | 346.00 | 2192  |
| 82.00 | 3906   | 164.00 | 608    | 248.00 | 602    | 347.00 | 346   |
| 83.00 | 3545   | 165.00 | 4507   | 249.00 | 2169   | 351.00 | 182   |
| 84.00 | 178    | 166.00 | 3807   | 250.00 | 370    | 352.00 | 3059  |
| 85.00 | 2559   | 167.00 | 24880  | 251.00 | 462    | 353.00 | 1950  |
| 86.00 | 4226   | 168.00 | 11639  | 252.00 | 590    | 354.00 | 3010  |
| 87.00 | 1998   | 169.00 | 2046   | 253.00 | 1331   | 355.00 | 569   |
| 88.00 | 783    | 170.00 | 776    | 255.00 | 296384 | 359.00 | 242   |
| 89.00 | 418    | 171.00 | 1036   | 256.00 | 43272  | 365.00 | 13085 |
| 91.00 | 3237   | 172.00 | 2248   | 257.00 | 3394   | 366.00 | 1813  |
| 92.00 | 3764   | 173.00 | 2906   | 258.00 | 18176  | 367.00 | 150   |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 93.00  | 24104  | 174.00 | 5113   | 259.00 | 2926   | 370.00 | 291    |
| 94.00  | 1672   | 175.00 | 9851   | 260.00 | 520    | 371.00 | 690    |
| 95.00  | 503    | 176.00 | 2588   | 261.00 | 479    | 372.00 | 4605   |
| 96.00  | 1130   | 177.00 | 4756   | 262.00 | 60     | 373.00 | 1002   |
| 97.00  | 380    | 178.00 | 1657   | 263.00 | 151    | 374.00 | 50     |
| 98.00  | 17936  | 179.00 | 18424  | 264.00 | 377    | 377.00 | 67     |
| 99.00  | 14658  | 180.00 | 12975  | 265.00 | 6992   | 383.00 | 1157   |
| 100.00 | 1303   | 181.00 | 6000   | 266.00 | 984    | 384.00 | 328    |
| 101.00 | 8724   | 182.00 | 963    | 267.00 | 105    | 385.00 | 50     |
| 102.00 | 480    | 183.00 | 493    | 268.00 | 248    | 390.00 | 595    |
| 103.00 | 2859   | 184.00 | 1456   | 270.00 | 285    | 391.00 | 401    |
| 104.00 | 5461   | 185.00 | 9317   | 271.00 | 631    | 392.00 | 204    |
| 105.00 | 5056   | 186.00 | 70384  | 272.00 | 750    | 401.00 | 211    |
| 106.00 | 1781   | 187.00 | 20112  | 273.00 | 8749   | 402.00 | 1564   |
| 107.00 | 67936  | 188.00 | 2185   | 274.00 | 23296  | 403.00 | 2292   |
| 108.00 | 10471  | 189.00 | 4453   | 275.00 | 129008 | 404.00 | 796    |
| 109.00 | 595    | 190.00 | 772    | 276.00 | 17320  | 405.00 | 237    |
| 110.00 | 122760 | 191.00 | 2090   | 277.00 | 11470  | 421.00 | 1827   |
| 111.00 | 18400  | 192.00 | 5915   | 278.00 | 2005   | 422.00 | 1658   |
| 112.00 | 2357   | 193.00 | 6863   | 279.00 | 468    | 423.00 | 12304  |
| 113.00 | 756    | 194.00 | 1470   | 281.00 | 147    | 424.00 | 2795   |
| 114.00 | 128    | 195.00 | 841    | 282.00 | 368    | 425.00 | 263    |
| 115.00 | 298    | 196.00 | 14341  | 283.00 | 1453   | 441.00 | 31664  |
| 116.00 | 3871   | 198.00 | 518272 | 284.00 | 874    | 442.00 | 221824 |
| 117.00 | 54088  | 199.00 | 35680  | 285.00 | 2012   | 443.00 | 41072  |
| 118.00 | 3919   | 200.00 | 2830   | 286.00 | 333    | 444.00 | 3778   |
| 119.00 | 531    | 201.00 | 2302   | 288.00 | 146    | 445.00 | 177    |
| 120.00 | 920    | 203.00 | 3657   | 289.00 | 446    |        |        |
| 121.00 | 362    | 204.00 | 18200  | 290.00 | 444    |        |        |
| 122.00 | 4396   | 205.00 | 31664  | 291.00 | 199    |        |        |
| 123.00 | 6778   | 206.00 | 132736 | 292.00 | 486    |        |        |

Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT10031503S.D  
Date: 15-MAR-2023 21:12  
Client ID:  
Sample Info: SLC0238-CAL8  
Volume Injected (uL): 1.0  
Column phase: ZB-5msi

Instrument: nt10.1  
Operator: JGR  
Column diameter: 0.25

\\target\share\chem3\nt10.1\20230315.1\20230315.1\NT10031503S.D



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031503S.D  
 Lab Smp Id: SLC0238-CAL8  
 Inj Date : 15-MAR-2023 21:12 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : SLC0238-CAL8  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 3 Calibration Sample, Level: 8  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT     | EXP RT         | REL RT | RESPONSE | AMOUNTS         |                |
|-------------------------------|-------|-----|--------|----------------|--------|----------|-----------------|----------------|
|                               |       |     |        |                |        |          | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol           | 112   |     | 7.072  | 7.073 (0.760)  |        | 838030   | 15.0000         | 14.36          |
| 3 Phenol                      | 94    |     | 8.664  | 8.664 (0.931)  |        | 729755   | 10.0000         | 9.116          |
| 7 1,3-Dichlorobenzene         | 146   |     | 9.236  | 9.236 (0.992)  |        | 665810   | 10.0000         | 8.888          |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.306  | 9.298 (1.000)  |        | 192425   | 4.00000         |                |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.329  | 9.329 (1.002)  |        | 654897   | 10.0000         | 9.056          |
| 11 Benzyl alcohol             | 79    |     | 9.562  | 9.570 (1.028)  |        | 491495   | 10.0000         | 10.59          |
| 12 1,2-Dichlorobenzene        | 146   |     | 9.686  | 9.686 (1.041)  |        | 638455   | 10.0000         | 8.978          |
| 13 2-Methylphenol             | 108   |     | 9.779  | 9.772 (1.051)  |        | 553708   | 10.0000         | 9.982          |
| 15 4-Methylphenol             | 108   |     | 10.043 | 10.036 (1.079) |        | 586952   | 10.0000         | 10.18          |
| 16 N-Nitroso-di-n-propylamine | 70    |     | 10.121 | 10.113 (1.088) |        | 409406   | 10.0000         | 10.04          |
| 22 2,4-Dimethylphenol         | 107   |     | 11.085 | 11.087 (0.941) |        | 1130269  | 20.0000         | 18.95          |
| 24 Benzoic acid               | 105   |     | 11.332 | 11.189 (0.962) |        | 1607035  | 40.0000         | 39.86          |
| 26 1,2,4-Trichlorobenzene     | 180   |     | 11.689 | 11.690 (0.992) |        | 544255   | 10.0000         | 9.073          |
| * 27 Naphthalene-d8           | 136   |     | 11.781 | 11.775 (1.000) |        | 689875   | 4.00000         |                |
| 30 Hexachlorobutadiene        | 225   |     | 12.175 | 12.169 (1.033) |        | 341241   | 10.0000         | 9.357          |
| 39 Dimethylphthalate          | 163   |     | 14.884 | 14.877 (0.967) |        | 1011946  | 10.0000         | 9.386          |
| * 42 Acenaphthene-d10         | 162   |     | 15.387 | 15.380 (1.000) |        | 341663   | 4.00000         |                |
| 50 Diethylphthalate           | 149   |     | 16.338 | 16.324 (1.062) |        | 1156658  | 10.0000         | 10.36          |
| 54 N-Nitrosodiphenylamine     | 169   |     | 16.724 | 16.717 (0.908) |        | 841708   | 10.0000         | 9.623          |
| 57 Hexachlorobenzene          | 284   |     | 17.797 | 17.798 (0.966) |        | 358890   | 10.0000         | 9.166          |

| Compounds                 | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|---------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                           | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| =====                     | =====     |  | =====  | =====  | =====   | =====    | =====              | =====             |
| 58 Pentachlorophenol      | 266       |  | 18.153 | 18.154 | (0.985) | 496304   | 20.0000            | 19.97             |
| * 59 Phenanthrene-d10     | 188       |  | 18.424 | 18.417 | (1.000) | 651934   | 4.00000            |                   |
| \$ 66 Terphenyl-d14       | 244       |  | 21.542 | 21.543 | (0.918) | 813450   | 10.0000            | 10.36             |
| 67 Butylbenzylphthalate   | 149       |  | 22.463 | 22.465 | (0.958) | 722761   | 10.0000            | 9.997             |
| * 69 Chrysene-d12         | 240       |  | 23.454 | 23.455 | (1.000) | 482051   | 4.00000            |                   |
| * 77 Perylene-d12         | 264       |  | 26.187 | 26.188 | (1.000) | 502718   | 4.00000            |                   |
| 79 Dibenzo(a,h)anthracene | 278       |  | 29.033 | 29.019 | (1.109) | 1559411  | 10.0000            | 9.987             |
| 90 N-Nitrosodimethylamine | 74        |  | 4.940  | 4.948  | (0.531) | 652075   | 20.0000            | 17.62             |



ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT10031503S.D  
 Lab Smp Id: SLC0238-CAL8  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Misc Info:

Calibration Date: 15-MAR-2023  
 Calibration Time: 23:06  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 188081   | 94041      | 376162  | 192425 | 2.31  |
| 27 Naphthalene-d8   | 674549   | 337275     | 1349098 | 689875 | 2.27  |
| 42 Acenaphthene-d10 | 328275   | 164138     | 656550  | 341663 | 4.08  |
| 59 Phenanthrene-d10 | 597140   | 298570     | 1194280 | 651934 | 9.18  |
| 69 Chrysene-d12     | 466503   | 233252     | 933006  | 482051 | 3.33  |
| 77 Perylene-d12     | 518203   | 259102     | 1036406 | 502718 | -2.99 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.30     | 8.80     | 9.80  | 9.31   | 0.08  |
| 27 Naphthalene-d8   | 11.77    | 11.27    | 12.27 | 11.78  | 0.06  |
| 42 Acenaphthene-d10 | 15.39    | 14.89    | 15.89 | 15.39  | -0.00 |
| 59 Phenanthrene-d10 | 18.42    | 17.92    | 18.92 | 18.42  | -0.00 |
| 69 Chrysene-d12     | 23.45    | 22.95    | 23.95 | 23.45  | -0.00 |
| 77 Perylene-d12     | 26.19    | 25.69    | 26.69 | 26.19  | -0.00 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT10031503S.D

Lab ID: SLC0238-CAL8

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

15-MAR-2023 21:12

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV   | RRT    | DELTA | COMPOUND     |
|-------|-------|--------|-------|--------------|
| 0.962 | 0.000 | 0.9618 |       | Benzoic acid |

RRT check based on Ccal File: 20230315.b/NT10031510S.D

On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

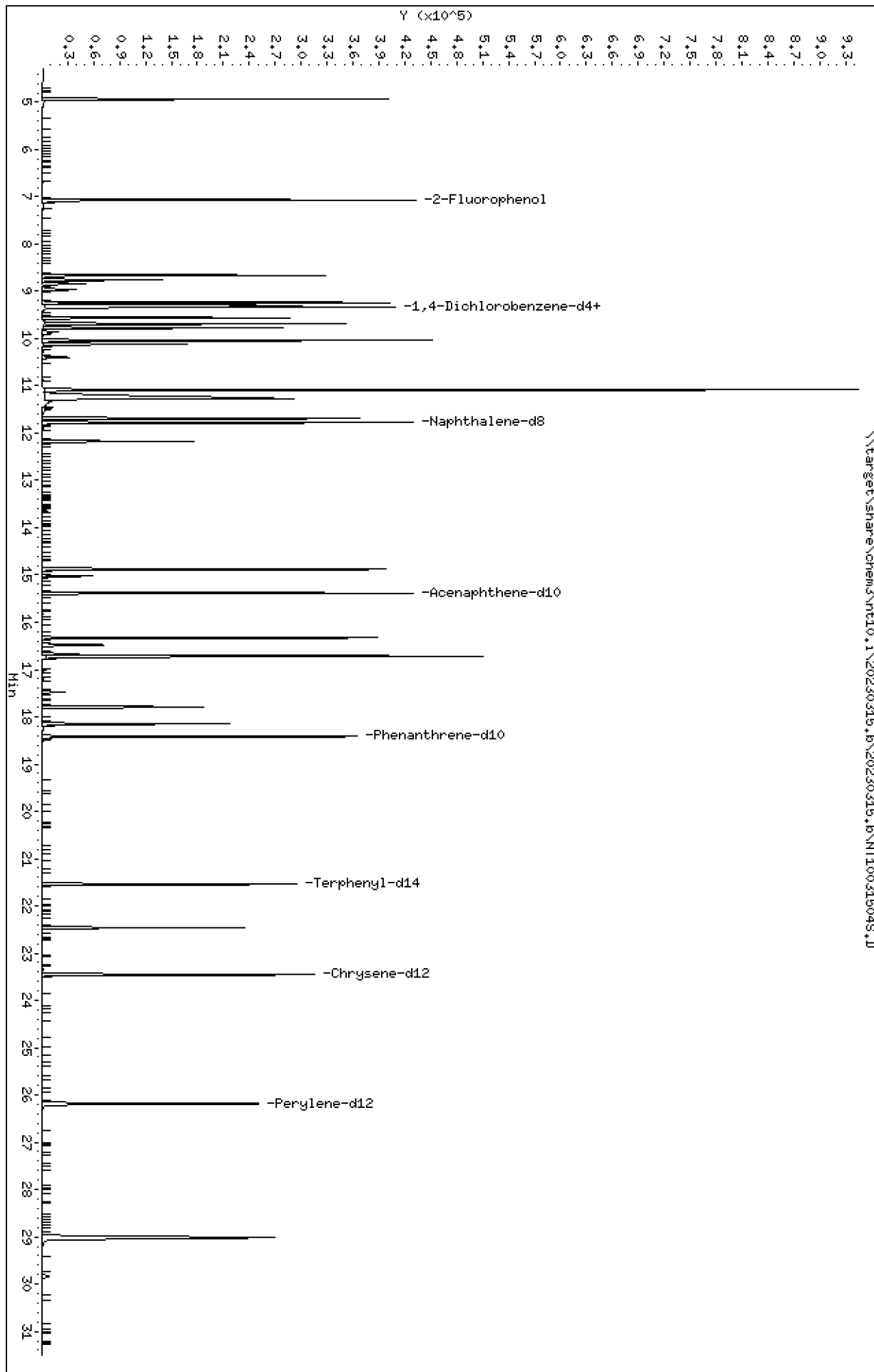
Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT10031504S.D  
 Date: 15-MAR-2023 21:50  
 Client ID:  
 Sample Info: SLC0238-CAL7  
 Volume Injected (uL): 1.0  
 Column phase: ZB-5msi

Instrument: nt10.1  
 Operator: JGR  
 Column diameter: 0.25

\\target\share\chem3\nt10.1\20230315.1\20230315.1\NT10031504S.D



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031504S.D  
 Lab Smp Id: SLC0238-CAL7  
 Inj Date : 15-MAR-2023 21:50 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : SLC0238-CAL7  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 4 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS         |                |
|-------------------------------|-------|-----|--------|--------|---------|----------|-----------------|----------------|
|                               |       |     |        |        |         |          | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol           | 112   |     | 7.073  | 7.073  | (0.761) | 423280   | 7.50000         | 7.448          |
| 3 Phenol                      | 94    |     | 8.664  | 8.664  | (0.932) | 380220   | 5.00000         | 4.876          |
| 7 1,3-Dichlorobenzene         | 146   |     | 9.236  | 9.236  | (0.993) | 338879   | 5.00000         | 4.645          |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.298  | 9.298  | (1.000) | 187419   | 4.00000         |                |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.329  | 9.329  | (1.003) | 329824   | 5.00000         | 4.683          |
| 11 Benzyl alcohol             | 79    |     | 9.562  | 9.570  | (1.028) | 252707   | 5.00000         | 5.590          |
| 12 1,2-Dichlorobenzene        | 146   |     | 9.686  | 9.686  | (1.042) | 322928   | 5.00000         | 4.662          |
| 13 2-Methylphenol             | 108   |     | 9.772  | 9.772  | (1.051) | 278276   | 5.00000         | 5.151          |
| 15 4-Methylphenol             | 108   |     | 10.036 | 10.036 | (1.079) | 298436   | 5.00000         | 5.316          |
| 16 N-Nitroso-di-n-propylamine | 70    |     | 10.113 | 10.113 | (1.088) | 209335   | 5.00000         | 5.272          |
| 22 2,4-Dimethylphenol         | 107   |     | 11.086 | 11.087 | (0.942) | 583450   | 10.0000         | 9.891          |
| 24 Benzoic acid               | 105   |     | 11.272 | 11.189 | (0.957) | 736328   | 20.0000         | 20.81          |
| 26 1,2,4-Trichlorobenzene     | 180   |     | 11.689 | 11.690 | (0.993) | 274164   | 5.00000         | 4.620          |
| * 27 Naphthalene-d8           | 136   |     | 11.774 | 11.775 | (1.000) | 682446   | 4.00000         |                |
| 30 Hexachlorobutadiene        | 225   |     | 12.168 | 12.169 | (1.033) | 169468   | 5.00000         | 4.697          |
| 39 Dimethylphthalate          | 163   |     | 14.877 | 14.877 | (0.967) | 507054   | 5.00000         | 4.846          |
| * 42 Acenaphthene-d10         | 162   |     | 15.380 | 15.380 | (1.000) | 331603   | 4.00000         |                |
| 50 Diethylphthalate           | 149   |     | 16.331 | 16.324 | (1.062) | 561334   | 5.00000         | 5.178          |
| 54 N-Nitrosodiphenylamine     | 169   |     | 16.716 | 16.717 | (0.908) | 409745   | 5.00000         | 5.102          |
| 57 Hexachlorobenzene          | 284   |     | 17.797 | 17.798 | (0.966) | 174645   | 5.00000         | 4.857          |

| Compounds                 | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|---------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                           | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| =====                     | =====     |  | =====  | =====  | =====   | =====    | =====              | =====             |
| 58 Pentachlorophenol      | 266       |  | 18.145 | 18.154 | (0.985) | 215193   | 10.0000            | 10.18             |
| * 59 Phenanthrene-d10     | 188       |  | 18.416 | 18.417 | (1.000) | 598629   | 4.00000            |                   |
| \$ 66 Terphenyl-d14       | 244       |  | 21.542 | 21.543 | (0.918) | 332738   | 5.00000            | 5.245             |
| 67 Butylbenzylphthalate   | 149       |  | 22.456 | 22.465 | (0.957) | 271734   | 5.00000            | 5.005             |
| * 69 Chrysene-d12         | 240       |  | 23.454 | 23.455 | (1.000) | 389338   | 4.00000            |                   |
| * 77 Perylene-d12         | 264       |  | 26.187 | 26.188 | (1.000) | 466441   | 4.00000            |                   |
| 79 Dibenzo(a,h)anthracene | 278       |  | 29.017 | 29.019 | (1.108) | 751404   | 5.00000            | 5.052             |
| 90 N-Nitrosodimethylamine | 74        |  | 4.933  | 4.948  | (0.531) | 345951   | 10.0000            | 9.597             |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT10031504S.D  
 Lab Smp Id: SLC0238-CAL7  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Misc Info:

Calibration Date: 15-MAR-2023  
 Calibration Time: 23:06  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|---------------------|----------|------------|---------|--------|--------|
|                     |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze | 188081   | 94041      | 376162  | 187419 | -0.35  |
| 27 Naphthalene-d8   | 674549   | 337275     | 1349098 | 682446 | 1.17   |
| 42 Acenaphthene-d10 | 328275   | 164138     | 656550  | 331603 | 1.01   |
| 59 Phenanthrene-d10 | 597140   | 298570     | 1194280 | 598629 | 0.25   |
| 69 Chrysene-d12     | 466503   | 233252     | 933006  | 389338 | -16.54 |
| 77 Perylene-d12     | 518203   | 259102     | 1036406 | 466441 | -9.99  |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.30     | 8.80     | 9.80  | 9.30   | 0.00  |
| 27 Naphthalene-d8   | 11.77    | 11.27    | 12.27 | 11.77  | 0.00  |
| 42 Acenaphthene-d10 | 15.39    | 14.89    | 15.89 | 15.38  | -0.05 |
| 59 Phenanthrene-d10 | 18.42    | 17.92    | 18.92 | 18.42  | -0.04 |
| 69 Chrysene-d12     | 23.45    | 22.95    | 23.95 | 23.45  | 0.00  |
| 77 Perylene-d12     | 26.19    | 25.69    | 26.69 | 26.19  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT10031504S.D

Lab ID: SLC0238-CAL7

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

15-MAR-2023 21:50

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV   | RRT    | DELTA | COMPOUND     |
|-------|-------|--------|-------|--------------|
| 0.957 | 0.000 | 0.9574 |       | Benzoic acid |

---

RRT check based on Ccal File: 20230315.b/NT10031510S.D

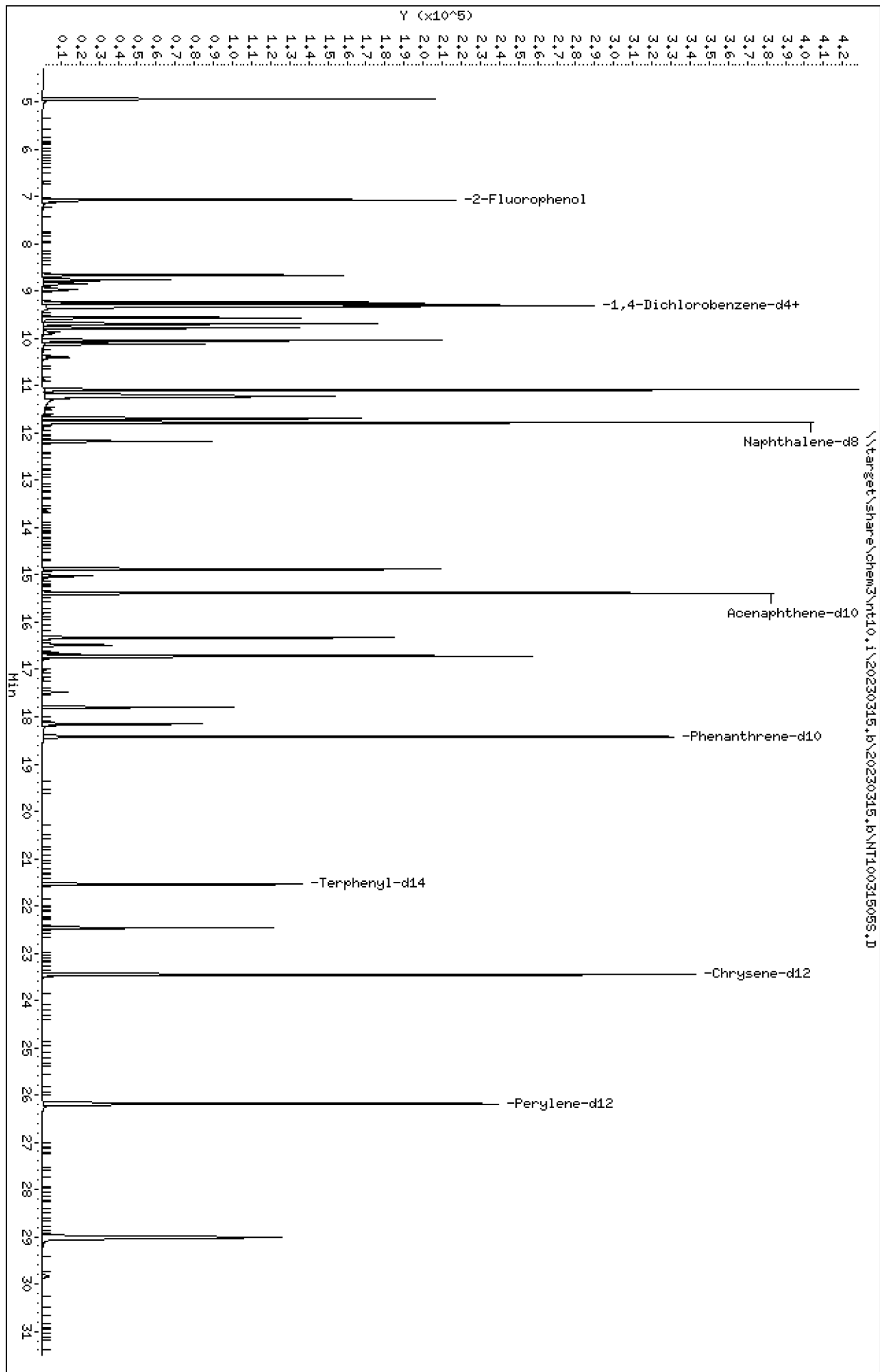
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT100315055.D  
 Date: 15-MAR-2023 22:28  
 Client ID:  
 Sample Info: SLC0238-CAL6  
 Volume Injected (uL): 1.0  
 Column phase: ZB-5msi

Instrument: nt10.1  
 Operator: JGR  
 Column diameter: 0.25





ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031505S.D  
 Lab Smp Id: SLC0238-CAL6  
 Inj Date : 15-MAR-2023 22:28 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : SLC0238-CAL6  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 5 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT     | EXP RT         | REL RT | RESPONSE | AMOUNTS         |                |
|-------------------------------|-------|-----|--------|----------------|--------|----------|-----------------|----------------|
|                               |       |     |        |                |        |          | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol           | 112   |     | 7.065  | 7.073 (0.760)  |        | 210389   | 3.75000         | 4.001          |
| 3 Phenol                      | 94    |     | 8.657  | 8.664 (0.931)  |        | 190392   | 2.50000         | 2.639          |
| 7 1,3-Dichlorobenzene         | 146   |     | 9.236  | 9.236 (0.993)  |        | 168055   | 2.50000         | 2.489          |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.299  | 9.298 (1.000)  |        | 173412   | 4.00000         |                |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.330  | 9.329 (1.003)  |        | 163092   | 2.50000         | 2.503          |
| 11 Benzyl alcohol             | 79    |     | 9.562  | 9.570 (1.028)  |        | 120208   | 2.50000         | 2.874          |
| 12 1,2-Dichlorobenzene        | 146   |     | 9.687  | 9.686 (1.042)  |        | 159585   | 2.50000         | 2.490          |
| 13 2-Methylphenol             | 108   |     | 9.772  | 9.772 (1.051)  |        | 134327   | 2.50000         | 2.687          |
| 15 4-Methylphenol             | 108   |     | 10.036 | 10.036 (1.079) |        | 141444   | 2.50000         | 2.723          |
| 16 N-Nitroso-di-n-propylamine | 70    |     | 10.114 | 10.113 (1.088) |        | 100651   | 2.50000         | 2.740          |
| 22 2,4-Dimethylphenol         | 107   |     | 11.078 | 11.087 (0.941) |        | 286604   | 5.00000         | 5.311          |
| 24 Benzoic acid               | 105   |     | 11.222 | 11.189 (0.953) |        | 285274   | 10.0000         | 9.309          |
| 26 1,2,4-Trichlorobenzene     | 180   |     | 11.690 | 11.690 (0.993) |        | 133425   | 2.50000         | 2.458          |
| * 27 Naphthalene-d8           | 136   |     | 11.775 | 11.775 (1.000) |        | 624286   | 4.00000         |                |
| 30 Hexachlorobutadiene        | 225   |     | 12.169 | 12.169 (1.033) |        | 82773    | 2.50000         | 2.508          |
| 39 Dimethylphthalate          | 163   |     | 14.878 | 14.877 (0.967) |        | 248536   | 2.50000         | 2.538          |
| * 42 Acenaphthene-d10         | 162   |     | 15.381 | 15.380 (1.000) |        | 310309   | 4.00000         |                |
| 50 Diethylphthalate           | 149   |     | 16.332 | 16.324 (1.062) |        | 274020   | 2.50000         | 2.701          |
| 54 N-Nitrosodiphenylamine     | 169   |     | 16.717 | 16.717 (0.907) |        | 198446   | 2.50000         | 2.666          |
| 57 Hexachlorobenzene          | 284   |     | 17.798 | 17.798 (0.966) |        | 83753    | 2.50000         | 2.513          |

| Compounds                 | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|---------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                           | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| =====                     | =====     |  | =====  | =====  | =====   | =====    | =====              | =====             |
| 58 Pentachlorophenol      | 266       |  | 18.154 | 18.154 | (0.985) | 93572    | 5.00000            | 4.940             |
| * 59 Phenanthrene-d10     | 188       |  | 18.425 | 18.417 | (1.000) | 554860   | 4.00000            |                   |
| \$ 66 Terphenyl-d14       | 244       |  | 21.543 | 21.543 | (0.918) | 167011   | 2.50000            | 2.661             |
| 67 Butylbenzylphthalate   | 149       |  | 22.464 | 22.465 | (0.958) | 133147   | 2.50000            | 2.556             |
| * 69 Chrysene-d12         | 240       |  | 23.455 | 23.455 | (1.000) | 385144   | 4.00000            |                   |
| * 77 Perylene-d12         | 264       |  | 26.188 | 26.188 | (1.000) | 456369   | 4.00000            |                   |
| 79 Dibenzo(a,h)anthracene | 278       |  | 29.018 | 29.019 | (1.108) | 368157   | 2.50000            | 2.493             |
| 90 N-Nitrosodimethylamine | 74        |  | 4.925  | 4.948  | (0.530) | 174819   | 5.00000            | 5.242             |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT10031505S.D  
 Lab Smp Id: SLC0238-CAL6  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Misc Info:

Calibration Date: 15-MAR-2023  
 Calibration Time: 23:06  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|---------------------|----------|------------|---------|--------|--------|
|                     |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze | 188081   | 94041      | 376162  | 173412 | -7.80  |
| 27 Naphthalene-d8   | 674549   | 337275     | 1349098 | 624286 | -7.45  |
| 42 Acenaphthene-d10 | 328275   | 164138     | 656550  | 310309 | -5.47  |
| 59 Phenanthrene-d10 | 597140   | 298570     | 1194280 | 554860 | -7.08  |
| 69 Chrysene-d12     | 466503   | 233252     | 933006  | 385144 | -17.44 |
| 77 Perylene-d12     | 518203   | 259102     | 1036406 | 456369 | -11.93 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.30     | 8.80     | 9.80  | 9.30   | 0.00  |
| 27 Naphthalene-d8   | 11.77    | 11.27    | 12.27 | 11.78  | 0.01  |
| 42 Acenaphthene-d10 | 15.39    | 14.89    | 15.89 | 15.38  | -0.04 |
| 59 Phenanthrene-d10 | 18.42    | 17.92    | 18.92 | 18.43  | 0.01  |
| 69 Chrysene-d12     | 23.45    | 22.95    | 23.95 | 23.46  | 0.00  |
| 77 Perylene-d12     | 26.19    | 25.69    | 26.69 | 26.19  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT10031505S.D

Lab ID: SLC0238-CAL6

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

15-MAR-2023 22:28

RT CO-ELUTION COMPOUNDS

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NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV   | RRT    | DELTA | COMPOUND     |
|-------|-------|--------|-------|--------------|
| 0.953 | 0.000 | 0.9531 |       | Benzoic acid |

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RRT check based on Ccal File: 20230315.b/NT10031510S.D

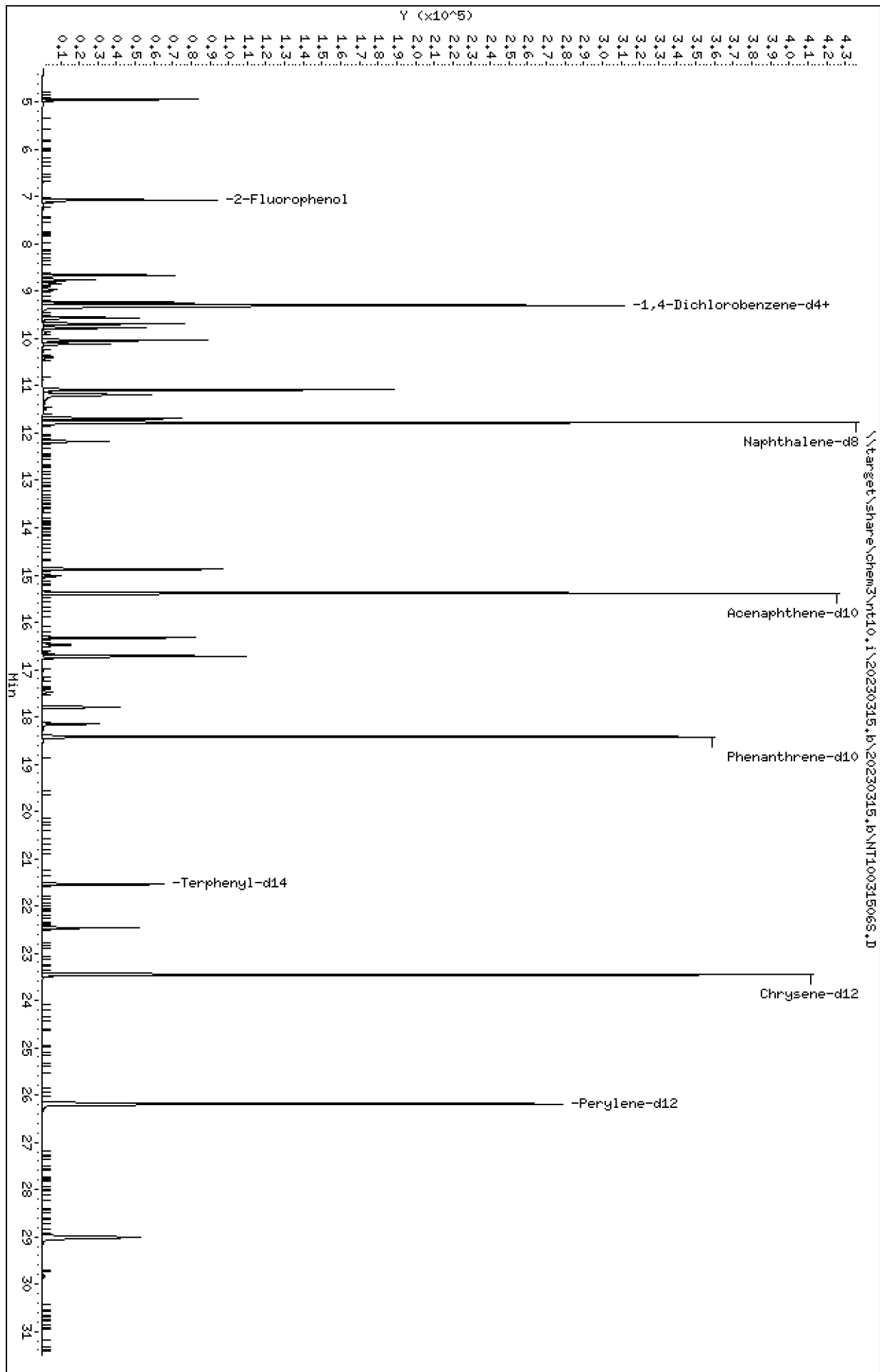
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT10031506S.D  
Date: 15-MAR-2023 23:06  
Client ID:  
Sample Info: SLC0238-CAL5  
Volume Injected (uL): 1.0  
Column phase: ZB-5msi

Instrument: nt10.1  
Operator: JGR  
Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031506S.D  
 Lab Smp Id: SLC0238-CAL5  
 Inj Date : 15-MAR-2023 23:06 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : SLC0238-CAL5  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 6 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT     | EXP RT         | REL RT | RESPONSE | AMOUNTS         |                |
|-------------------------------|-------|-----|--------|----------------|--------|----------|-----------------|----------------|
|                               |       |     |        |                |        |          | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol           | 112   |     | 7.072  | 7.073 (0.761)  |        | 90798    | 1.50000         | 1.592          |
| 3 Phenol                      | 94    |     | 8.656  | 8.664 (0.931)  |        | 82355    | 1.00000         | 1.052          |
| 7 1,3-Dichlorobenzene         | 146   |     | 9.236  | 9.236 (0.993)  |        | 73541    | 1.00000         | 1.004          |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.298  | 9.298 (1.000)  |        | 188081   | 4.00000         |                |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.329  | 9.329 (1.003)  |        | 71256    | 1.00000         | 1.008          |
| 11 Benzyl alcohol             | 79    |     | 9.562  | 9.570 (1.028)  |        | 48450    | 1.00000         | 1.068          |
| 12 1,2-Dichlorobenzene        | 146   |     | 9.686  | 9.686 (1.042)  |        | 70084    | 1.00000         | 1.008          |
| 13 2-Methylphenol             | 108   |     | 9.772  | 9.772 (1.051)  |        | 56161    | 1.00000         | 1.036          |
| 15 4-Methylphenol             | 108   |     | 10.036 | 10.036 (1.079) |        | 59710    | 1.00000         | 1.060          |
| 16 N-Nitroso-di-n-propylamine | 70    |     | 10.113 | 10.113 (1.088) |        | 42270    | 1.00000         | 1.061          |
| 22 2,4-Dimethylphenol         | 107   |     | 11.077 | 11.087 (0.941) |        | 125195   | 2.00000         | 2.147          |
| 24 Benzoic acid               | 105   |     | 11.187 | 11.189 (0.950) |        | 77741    | 4.00000         | 2.416          |
| 26 1,2,4-Trichlorobenzene     | 180   |     | 11.689 | 11.690 (0.993) |        | 58641    | 1.00000         | 0.9998         |
| * 27 Naphthalene-d8           | 136   |     | 11.774 | 11.775 (1.000) |        | 674549   | 4.00000         |                |
| 30 Hexachlorobutadiene        | 225   |     | 12.176 | 12.169 (1.034) |        | 35610    | 1.00000         | 0.9986         |
| 39 Dimethylphthalate          | 163   |     | 14.877 | 14.877 (0.967) |        | 108743   | 1.00000         | 1.050          |
| * 42 Acenaphthene-d10         | 162   |     | 15.387 | 15.380 (1.000) |        | 328275   | 4.00000         |                |
| 50 Diethylphthalate           | 149   |     | 16.330 | 16.324 (1.061) |        | 117125   | 1.00000         | 1.091          |
| 54 N-Nitrosodiphenylamine     | 169   |     | 16.724 | 16.717 (0.908) |        | 87266    | 1.00000         | 1.089          |
| 57 Hexachlorobenzene          | 284   |     | 17.797 | 17.798 (0.966) |        | 36131    | 1.00000         | 1.007          |

| Compounds                 | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|---------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                           | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| =====                     | =====     |  | =====  | =====  | =====   | =====    | =====              | =====             |
| 58 Pentachlorophenol      | 266       |  | 18.153 | 18.154 | (0.985) | 33609    | 2.00000            | 1.681             |
| * 59 Phenanthrene-d10     | 188       |  | 18.424 | 18.417 | (1.000) | 597140   | 4.00000            |                   |
| \$ 66 Terphenyl-d14       | 244       |  | 21.542 | 21.543 | (0.918) | 75884    | 1.00000            | 0.9983            |
| 67 Butylbenzylphthalate   | 149       |  | 22.463 | 22.465 | (0.958) | 56297    | 1.00000            | 0.9093            |
| * 69 Chrysene-d12         | 240       |  | 23.454 | 23.455 | (1.000) | 466503   | 4.00000            |                   |
| * 77 Perylene-d12         | 264       |  | 26.187 | 26.188 | (1.000) | 518203   | 4.00000            |                   |
| 79 Dibenzo(a,h)anthracene | 278       |  | 29.009 | 29.019 | (1.108) | 155363   | 1.00000            | 0.9181            |
| 90 N-Nitrosodimethylamine | 74        |  | 4.940  | 4.948  | (0.531) | 75637    | 2.00000            | 2.091             |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT10031506S.D  
 Lab Smp Id: SLC0238-CAL5  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Misc Info:

Calibration Date: 15-MAR-2023  
 Calibration Time: 23:06  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 188081   | 94041      | 376162  | 188081 | 0.00  |
| 27 Naphthalene-d8   | 674549   | 337275     | 1349098 | 674549 | 0.00  |
| 42 Acenaphthene-d10 | 328275   | 164138     | 656550  | 328275 | 0.00  |
| 59 Phenanthrene-d10 | 597140   | 298570     | 1194280 | 597140 | 0.00  |
| 69 Chrysene-d12     | 466503   | 233252     | 933006  | 466503 | 0.00  |
| 77 Perylene-d12     | 518203   | 259102     | 1036406 | 518203 | 0.00  |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.30     | 8.80     | 9.80  | 9.30   | 0.00  |
| 27 Naphthalene-d8   | 11.77    | 11.27    | 12.27 | 11.77  | 0.00  |
| 42 Acenaphthene-d10 | 15.39    | 14.89    | 15.89 | 15.39  | 0.00  |
| 59 Phenanthrene-d10 | 18.42    | 17.92    | 18.92 | 18.42  | 0.00  |
| 69 Chrysene-d12     | 23.45    | 22.95    | 23.95 | 23.45  | 0.00  |
| 77 Perylene-d12     | 26.19    | 25.69    | 26.69 | 26.19  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



REVIEW SUMMARY FOR FILE - NT10031506S.D

Lab ID: SLC0238-CAL5

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

15-MAR-2023 23:06

RT CO-ELUTION COMPOUNDS

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NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV   | RRT    | DELTA | COMPOUND     |
|-------|-------|--------|-------|--------------|
| 0.950 | 0.000 | 0.9502 |       | Benzoic acid |

RRT check based on Ccal File: 20230315.b/NT10031510S.D

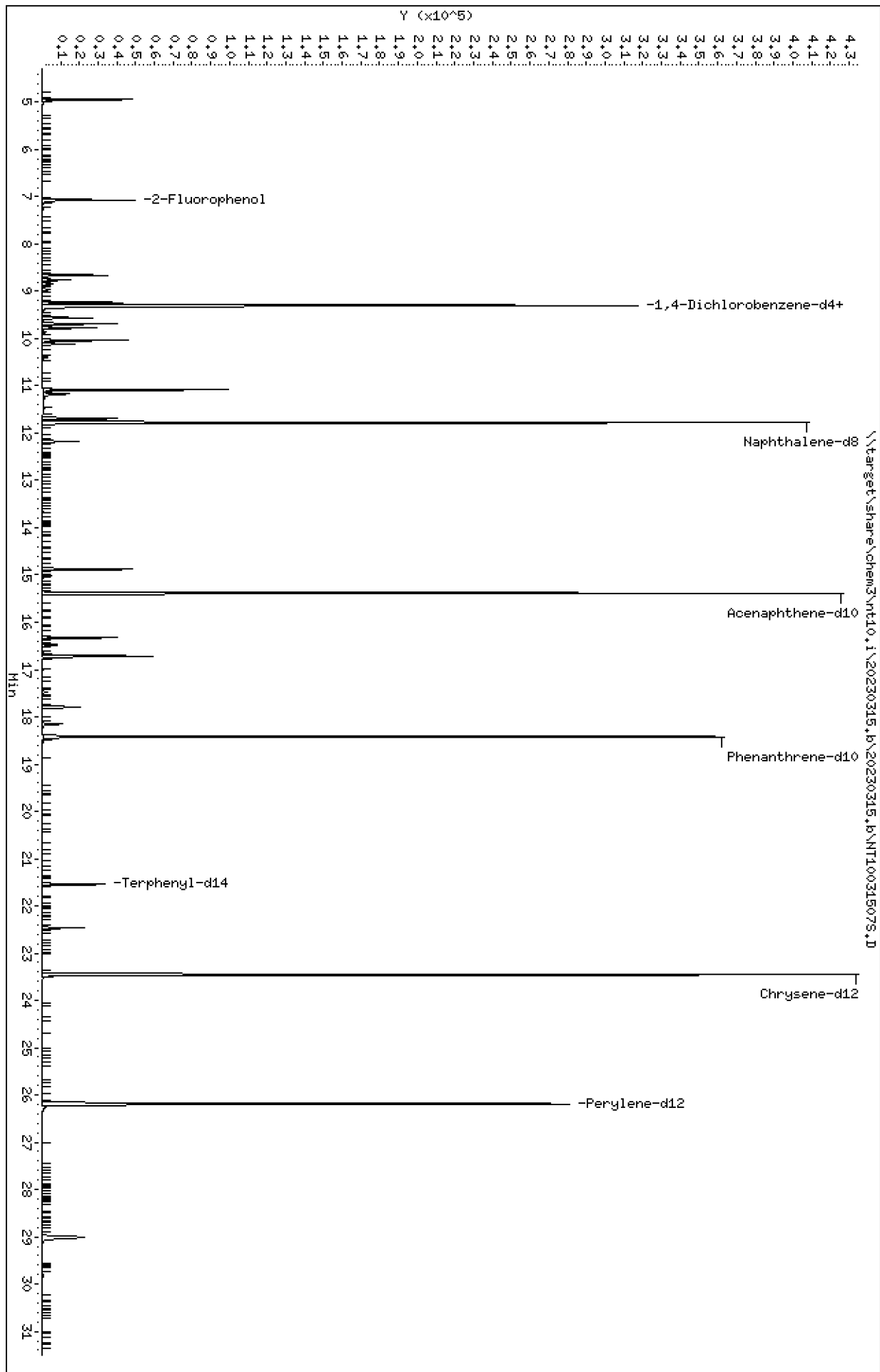
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT10031507S.D  
 Date : 15-MAR-2023 23:44  
 Client ID:  
 Sample Info: SLC0238-CAL4  
 Volume Injected (uL): 1.0  
 Column phase: ZB-5msi

Instrument: nt10.1  
 Operator: JGR  
 Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031507S.D  
 Lab Smp Id: SLC0238-CAL4  
 Inj Date : 15-MAR-2023 23:44 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : SLC0238-CAL4  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 7 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS         |                |
|-------------------------------|-------|-----|--------|--------|---------|----------|-----------------|----------------|
|                               |       |     |        |        |         |          | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol           | 112   |     | 7.073  | 7.073  | (0.761) | 45949    | 0.75000         | 0.7906         |
| 3 Phenol                      | 94    |     | 8.657  | 8.664  | (0.931) | 42286    | 0.50000         | 0.5304         |
| 7 1,3-Dichlorobenzene         | 146   |     | 9.236  | 9.236  | (0.993) | 38003    | 0.50000         | 0.5094         |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.298  | 9.298  | (1.000) | 191648   | 4.00000         |                |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.329  | 9.329  | (1.003) | 36555    | 0.50000         | 0.5076         |
| 11 Benzyl alcohol             | 79    |     | 9.562  | 9.570  | (1.028) | 23988    | 0.50000         | 0.5190         |
| 12 1,2-Dichlorobenzene        | 146   |     | 9.686  | 9.686  | (1.042) | 36410    | 0.50000         | 0.5141         |
| 13 2-Methylphenol             | 108   |     | 9.772  | 9.772  | (1.051) | 28358    | 0.50000         | 0.5133         |
| 15 4-Methylphenol             | 108   |     | 10.036 | 10.036 | (1.079) | 29752    | 0.50000         | 0.5183         |
| 16 N-Nitroso-di-n-propylamine | 70    |     | 10.113 | 10.113 | (1.088) | 21127    | 0.50000         | 0.5204         |
| 22 2,4-Dimethylphenol         | 107   |     | 11.086 | 11.087 | (0.942) | 63684    | 1.00000         | 1.084          |
| 24 Benzoic acid               | 105   |     | 11.171 | 11.189 | (0.949) | 21037    | 2.00000         | 0.6535         |
| 26 1,2,4-Trichlorobenzene     | 180   |     | 11.689 | 11.690 | (0.993) | 30281    | 0.50000         | 0.5124         |
| * 27 Naphthalene-d8           | 136   |     | 11.774 | 11.775 | (1.000) | 679665   | 4.00000         |                |
| 30 Hexachlorobutadiene        | 225   |     | 12.176 | 12.169 | (1.034) | 18287    | 0.50000         | 0.5089         |
| 39 Dimethylphthalate          | 163   |     | 14.877 | 14.877 | (0.967) | 54277    | 0.50000         | 0.5122         |
| * 42 Acenaphthene-d10         | 162   |     | 15.387 | 15.380 | (1.000) | 335786   | 4.00000         |                |
| 50 Diethylphthalate           | 149   |     | 16.331 | 16.324 | (1.061) | 57205    | 0.50000         | 0.5211         |
| 54 N-Nitrosodiphenylamine     | 169   |     | 16.716 | 16.717 | (0.907) | 43874    | 0.50000         | 0.5326         |
| 57 Hexachlorobenzene          | 284   |     | 17.797 | 17.798 | (0.966) | 18601    | 0.50000         | 0.5044         |

| Compounds                 | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|---------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                           | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 58 Pentachlorophenol      | 266       |  | 18.153 | 18.154 | (0.985) | 13495    | 1.00000            | 0.6606            |
| * 59 Phenanthrene-d10     | 188       |  | 18.424 | 18.417 | (1.000) | 613961   | 4.00000            |                   |
| \$ 66 Terphenyl-d14       | 244       |  | 21.542 | 21.543 | (0.918) | 37662    | 0.50000            | 0.4975            |
| 67 Butylbenzylphthalate   | 149       |  | 22.463 | 22.465 | (0.958) | 24470    | 0.50000            | 0.3991            |
| * 69 Chrysene-d12         | 240       |  | 23.454 | 23.455 | (1.000) | 464623   | 4.00000            |                   |
| * 77 Perylene-d12         | 264       |  | 26.187 | 26.188 | (1.000) | 521317   | 4.00000            |                   |
| 79 Dibenzo(a,h)anthracene | 278       |  | 29.010 | 29.019 | (1.108) | 72052    | 0.50000            | 0.4220            |
| 90 N-Nitrosodimethylamine | 74        |  | 4.941  | 4.948  | (0.531) | 39414    | 1.00000            | 1.069             |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT10031507S.D  
 Lab Smp Id: SLC0238-CAL4  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Misc Info:

Calibration Date: 15-MAR-2023  
 Calibration Time: 23:06  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 188081   | 94041      | 376162  | 191648 | 1.90  |
| 27 Naphthalene-d8   | 674549   | 337275     | 1349098 | 679665 | 0.76  |
| 42 Acenaphthene-d10 | 328275   | 164138     | 656550  | 335786 | 2.29  |
| 59 Phenanthrene-d10 | 597140   | 298570     | 1194280 | 613961 | 2.82  |
| 69 Chrysene-d12     | 466503   | 233252     | 933006  | 464623 | -0.40 |
| 77 Perylene-d12     | 518203   | 259102     | 1036406 | 521317 | 0.60  |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.30     | 8.80     | 9.80  | 9.30   | 0.00  |
| 27 Naphthalene-d8   | 11.77    | 11.27    | 12.27 | 11.77  | 0.00  |
| 42 Acenaphthene-d10 | 15.39    | 14.89    | 15.89 | 15.39  | 0.00  |
| 59 Phenanthrene-d10 | 18.42    | 17.92    | 18.92 | 18.42  | 0.00  |
| 69 Chrysene-d12     | 23.45    | 22.95    | 23.95 | 23.45  | 0.00  |
| 77 Perylene-d12     | 26.19    | 25.69    | 26.69 | 26.19  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT10031507S.D

Lab ID: SLC0238-CAL4

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

15-MAR-2023 23:44

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV   | RRT    | DELTA | COMPOUND     |
|-------|-------|--------|-------|--------------|
| 0.949 | 0.000 | 0.9487 |       | Benzoic acid |

---

RRT check based on Ccal File: 20230315.b/NT10031510S.D

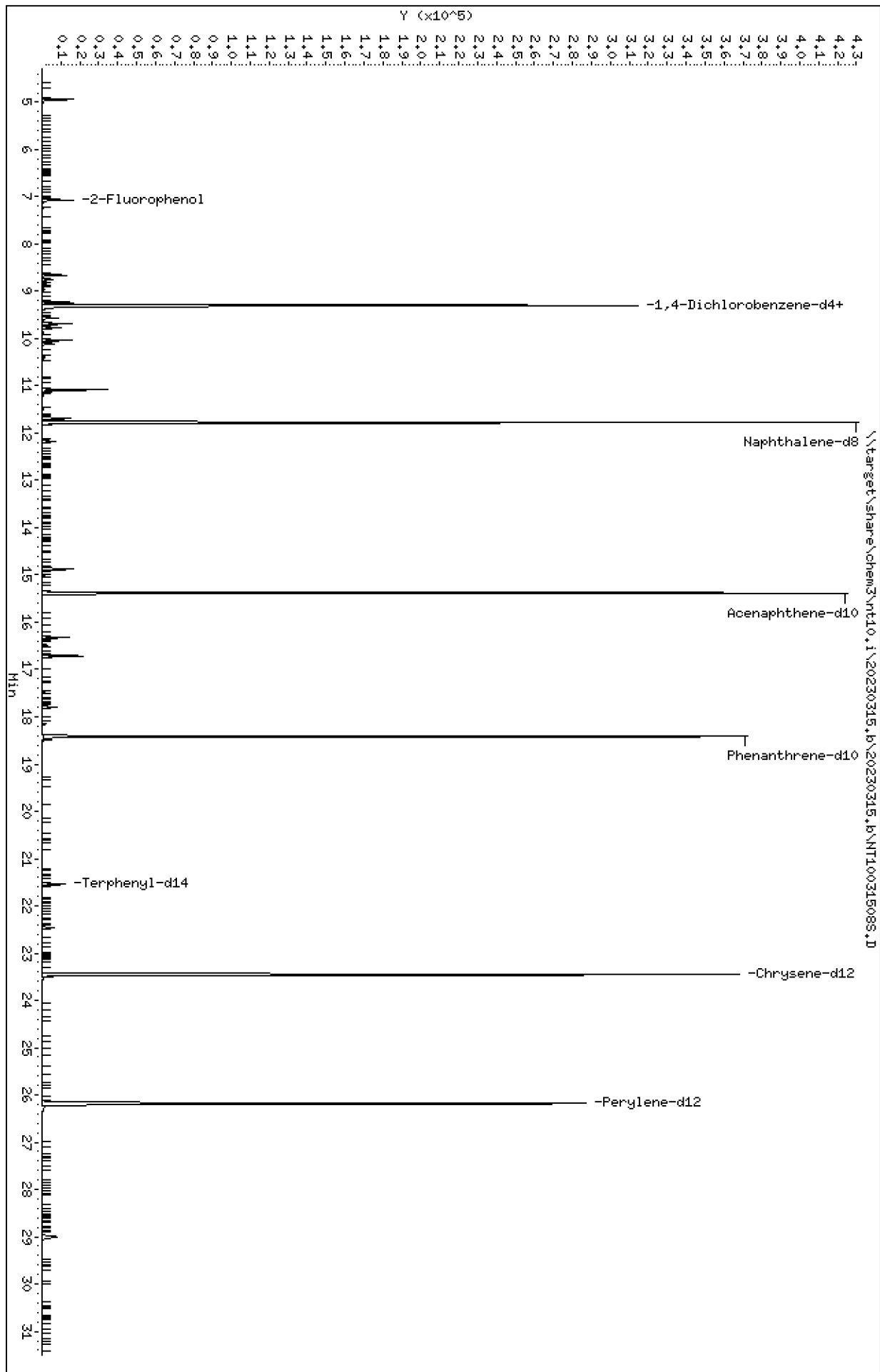
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT100315085.D  
Date: 16-MAR-2023 00:22  
Client ID:  
Sample Info: SLC0238-CAL3  
Volume Injected (uL): 1.0  
Column phase: ZB-5msi

Instrument: nt10.1  
Operator: JGR  
Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031508S.D  
 Lab Smp Id: SLC0238-CAL3  
 Inj Date : 16-MAR-2023 00:22 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : SLC0238-CAL3  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 8 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS            |                   |
|-------------------------------|-------|-----|--------|--------|---------|----------|--------------------|-------------------|
|                               |       |     |        |        |         |          | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| \$ 1 2-Fluorophenol           | 112   |     | 7.073  | 7.073  | (0.761) | 16956    | 0.30000            | 0.2964            |
| 3 Phenol                      | 94    |     | 8.657  | 8.664  | (0.931) | 15852    | 0.20000            | 0.2020            |
| 7 1,3-Dichlorobenzene         | 146   |     | 9.236  | 9.236  | (0.993) | 15032    | 0.20000            | 0.2047            |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.299  | 9.298  | (1.000) | 188644   | 4.00000            |                   |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.330  | 9.329  | (1.003) | 14441    | 0.20000            | 0.2037            |
| 11 Benzyl alcohol             | 79    |     | 9.562  | 9.570  | (1.028) | 8244     | 0.20000            | 0.1812            |
| 12 1,2-Dichlorobenzene        | 146   |     | 9.687  | 9.686  | (1.042) | 14306    | 0.20000            | 0.2052            |
| 13 2-Methylphenol             | 108   |     | 9.772  | 9.772  | (1.051) | 10287    | 0.20000            | 0.1892            |
| 15 4-Methylphenol             | 108   |     | 10.036 | 10.036 | (1.079) | 10727    | 0.20000            | 0.1898            |
| 16 N-Nitroso-di-n-propylamine | 70    |     | 10.114 | 10.113 | (1.088) | 7586     | 0.20000            | 0.1898            |
| 22 2,4-Dimethylphenol         | 107   |     | 11.078 | 11.087 | (0.941) | 23302    | 0.40000            | 0.4059            |
| 24 Benzoic acid               | 105   |     | 11.189 | 11.189 | (0.950) | 891      | 0.80000            | 0.02840 (M)       |
| 26 1,2,4-Trichlorobenzene     | 180   |     | 11.690 | 11.690 | (0.993) | 11744    | 0.20000            | 0.2034            |
| * 27 Naphthalene-d8           | 136   |     | 11.775 | 11.775 | (1.000) | 664117   | 4.00000            |                   |
| 30 Hexachlorobutadiene        | 225   |     | 12.169 | 12.169 | (1.033) | 7079     | 0.20000            | 0.2016            |
| 39 Dimethylphthalate          | 163   |     | 14.878 | 14.877 | (0.967) | 20353    | 0.20000            | 0.1965            |
| * 42 Acenaphthene-d10         | 162   |     | 15.381 | 15.380 | (1.000) | 328147   | 4.00000            |                   |
| 50 Diethylphthalate           | 149   |     | 16.324 | 16.324 | (1.061) | 20971    | 0.20000            | 0.1955            |
| 54 N-Nitrosodiphenylamine     | 169   |     | 16.717 | 16.717 | (0.908) | 16188    | 0.20000            | 0.2000            |
| 57 Hexachlorobenzene          | 284   |     | 17.790 | 17.798 | (0.966) | 7274     | 0.20000            | 0.2008            |



| Compounds                 | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|---------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                           | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 58 Pentachlorophenol      | 266       |  | 18.154 | 18.154 | (0.986) | 3337     | 0.40000            | 0.1667            |
| * 59 Phenanthrene-d10     | 188       |  | 18.417 | 18.417 | (1.000) | 603272   | 4.00000            |                   |
| \$ 66 Terphenyl-d14       | 244       |  | 21.543 | 21.543 | (0.918) | 14479    | 0.20000            | 0.1895            |
| 67 Butylbenzylphthalate   | 149       |  | 22.464 | 22.465 | (0.958) | 7787     | 0.20000            | 0.1262            |
| * 69 Chrysene-d12         | 240       |  | 23.455 | 23.455 | (1.000) | 468991   | 4.00000            |                   |
| * 77 Perylene-d12         | 264       |  | 26.181 | 26.188 | (1.000) | 525052   | 4.00000            |                   |
| 79 Dibenzo(a,h)anthracene | 278       |  | 29.003 | 29.019 | (1.108) | 24266    | 0.20000            | 0.1409            |
| 90 N-Nitrosodimethylamine | 74        |  | 4.941  | 4.948  | (0.531) | 14672    | 0.40000            | 0.4044            |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT10031508S.D  
 Lab Smp Id: SLC0238-CAL3  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Misc Info:

Calibration Date: 15-MAR-2023  
 Calibration Time: 23:06  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 188081   | 94041      | 376162  | 188644 | 0.30  |
| 27 Naphthalene-d8   | 674549   | 337275     | 1349098 | 664117 | -1.55 |
| 42 Acenaphthene-d10 | 328275   | 164138     | 656550  | 328147 | -0.04 |
| 59 Phenanthrene-d10 | 597140   | 298570     | 1194280 | 603272 | 1.03  |
| 69 Chrysene-d12     | 466503   | 233252     | 933006  | 468991 | 0.53  |
| 77 Perylene-d12     | 518203   | 259102     | 1036406 | 525052 | 1.32  |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.30     | 8.80     | 9.80  | 9.30   | 0.00  |
| 27 Naphthalene-d8   | 11.77    | 11.27    | 12.27 | 11.78  | 0.01  |
| 42 Acenaphthene-d10 | 15.39    | 14.89    | 15.89 | 15.38  | -0.04 |
| 59 Phenanthrene-d10 | 18.42    | 17.92    | 18.92 | 18.42  | -0.04 |
| 69 Chrysene-d12     | 23.45    | 22.95    | 23.95 | 23.46  | 0.00  |
| 77 Perylene-d12     | 26.19    | 25.69    | 26.69 | 26.18  | -0.03 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT10031508S.D

Lab ID: SLC0238-CAL3

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

16-MAR-2023 00:22

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV   | RRT    | DELTA | COMPOUND     |
|-------|-------|--------|-------|--------------|
| 0.950 | 0.000 | 0.9502 |       | Benzoic acid |

RRT check based on Ccal File: 20230315.b/NT10031510S.D

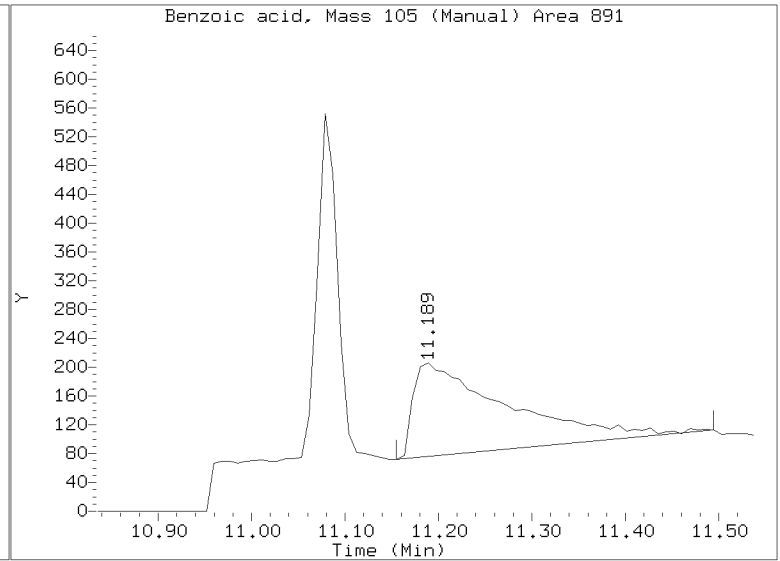
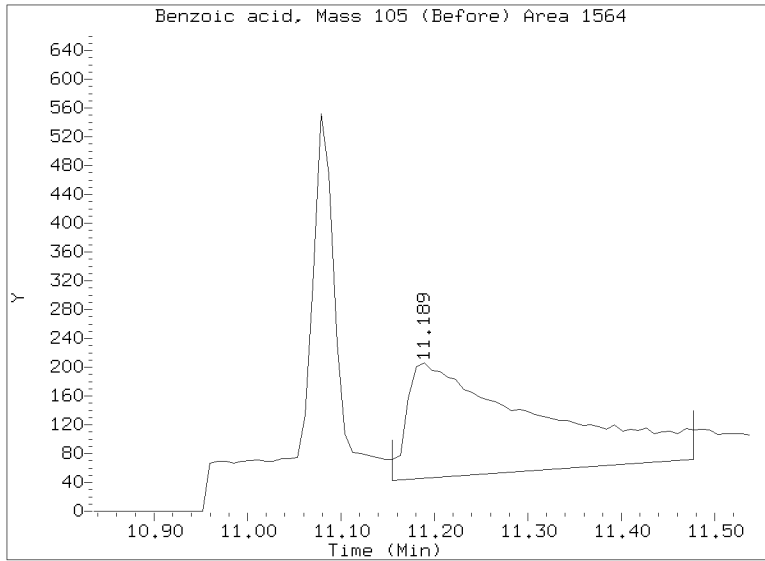
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

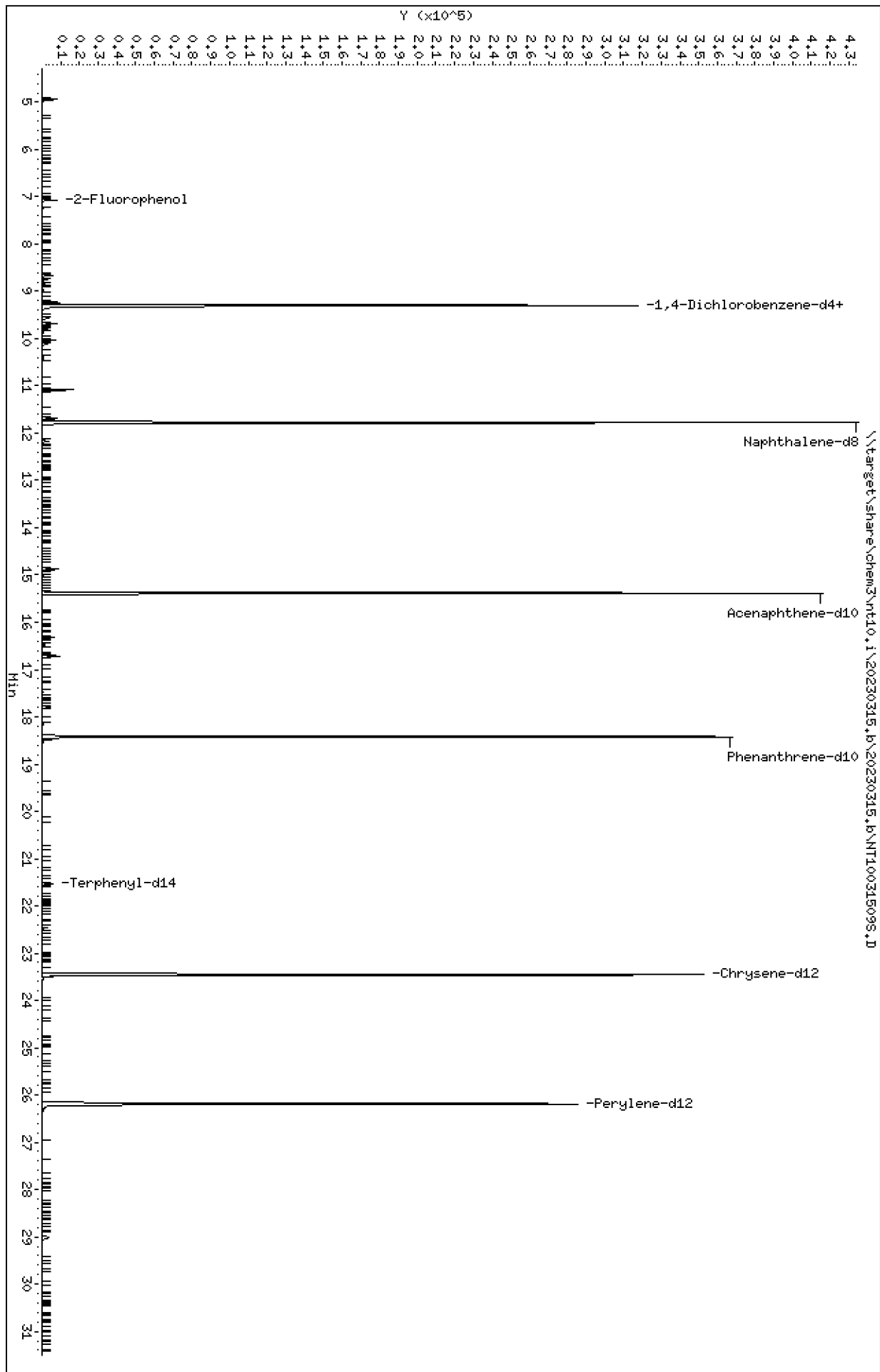
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031508S.D  
Injection Date: 16-MAR-2023 00:22  
Lab ID:SLC0238-CAL3 Client ID:  
Report Date: 03/16/2023 14:49



Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT10031509S.D  
Date: 16-MAR-2023 01:00  
Client ID:  
Sample Info: SLC0238-CAL2  
Volume Injected (uL): 1.0  
Column phase: ZB-5msi

Instrument: nt10.1  
Operator: JGR  
Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031509S.D  
 Lab Smp Id: SLC0238-CAL2  
 Inj Date : 16-MAR-2023 01:00 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : SLC0238-CAL2  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 9 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | AMOUNTS         |                |
|-------------------------------|-------|-----|------------------------|--------|---------|----------|-----------------|----------------|
|                               |       |     |                        |        |         |          | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol           | 112   |     | 7.073                  | 7.073  | (0.761) | 8469     | 0.15000         | 0.1462         |
| 3 Phenol                      | 94    |     | 8.657                  | 8.664  | (0.931) | 7915     | 0.10000         | 0.09961        |
| 7 1,3-Dichlorobenzene         | 146   |     | 9.236                  | 9.236  | (0.993) | 7959     | 0.10000         | 0.1070         |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.298                  | 9.298  | (1.000) | 190985   | 4.00000         |                |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.329                  | 9.329  | (1.003) | 7577     | 0.10000         | 0.1056         |
| 11 Benzyl alcohol             | 79    |     | 9.562                  | 9.570  | (1.028) | 3916     | 0.10000         | 0.08501        |
| 12 1,2-Dichlorobenzene        | 146   |     | 9.686                  | 9.686  | (1.042) | 7452     | 0.10000         | 0.1056         |
| 13 2-Methylphenol             | 108   |     | 9.772                  | 9.772  | (1.051) | 5108     | 0.10000         | 0.09278        |
| 15 4-Methylphenol             | 108   |     | 10.036                 | 10.036 | (1.079) | 5283     | 0.10000         | 0.09234        |
| 16 N-Nitroso-di-n-propylamine | 70    |     | 10.113                 | 10.113 | (1.088) | 3707     | 0.10000         | 0.09162        |
| 22 2,4-Dimethylphenol         | 107   |     | 11.086                 | 11.087 | (0.942) | 11249    | 0.20000         | 0.1901         |
| 24 Benzoic acid               | 105   |     | Compound Not Detected. |        |         |          |                 |                |
| 26 1,2,4-Trichlorobenzene     | 180   |     | 11.689                 | 11.690 | (0.993) | 6182     | 0.10000         | 0.1038         |
| * 27 Naphthalene-d8           | 136   |     | 11.774                 | 11.775 | (1.000) | 684638   | 4.00000         |                |
| 30 Hexachlorobutadiene        | 225   |     | 12.176                 | 12.169 | (1.034) | 3646     | 0.10000         | 0.1007         |
| 39 Dimethylphthalate          | 163   |     | 14.877                 | 14.877 | (0.967) | 10444    | 0.10000         | 0.1008         |
| * 42 Acenaphthene-d10         | 162   |     | 15.387                 | 15.380 | (1.000) | 328366   | 4.00000         |                |
| 50 Diethylphthalate           | 149   |     | 16.331                 | 16.324 | (1.061) | 9630     | 0.10000         | 0.08971        |
| 54 N-Nitrosodiphenylamine     | 169   |     | 16.716                 | 16.717 | (0.907) | 7688     | 0.10000         | 0.09515        |
| 57 Hexachlorobenzene          | 284   |     | 17.797                 | 17.798 | (0.966) | 3777     | 0.10000         | 0.1044         |

| Compounds                 | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|---------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                           | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 58 Pentachlorophenol      | 266       |  | 18.153 | 18.154 | (0.985) | 1130     | 0.20000            | 0.05659 (M)       |
| * 59 Phenanthrene-d10     | 188       |  | 18.424 | 18.417 | (1.000) | 602202   | 4.00000            |                   |
| \$ 66 Terphenyl-d14       | 244       |  | 21.542 | 21.543 | (0.918) | 6866     | 0.10000            | 0.09337           |
| 67 Butylbenzylphthalate   | 149       |  | 22.463 | 22.465 | (0.958) | 3284     | 0.10000            | 0.05534           |
| * 69 Chrysene-d12         | 240       |  | 23.454 | 23.455 | (1.000) | 451316   | 4.00000            |                   |
| * 77 Perylene-d12         | 264       |  | 26.187 | 26.188 | (1.000) | 517188   | 4.00000            |                   |
| 79 Dibenzo(a,h)anthracene | 278       |  | 29.010 | 29.019 | (1.108) | 11218    | 0.10000            | 0.06608           |
| 90 N-Nitrosodimethylamine | 74        |  | 4.941  | 4.948  | (0.531) | 7449     | 0.20000            | 0.2028            |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT10031509S.D  
 Lab Smp Id: SLC0238-CAL2  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Misc Info:

Calibration Date: 15-MAR-2023  
 Calibration Time: 23:06  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 188081   | 94041      | 376162  | 190985 | 1.54  |
| 27 Naphthalene-d8   | 674549   | 337275     | 1349098 | 684638 | 1.50  |
| 42 Acenaphthene-d10 | 328275   | 164138     | 656550  | 328366 | 0.03  |
| 59 Phenanthrene-d10 | 597140   | 298570     | 1194280 | 602202 | 0.85  |
| 69 Chrysene-d12     | 466503   | 233252     | 933006  | 451316 | -3.26 |
| 77 Perylene-d12     | 518203   | 259102     | 1036406 | 517188 | -0.20 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.30     | 8.80     | 9.80  | 9.30   | 0.00  |
| 27 Naphthalene-d8   | 11.77    | 11.27    | 12.27 | 11.77  | 0.00  |
| 42 Acenaphthene-d10 | 15.39    | 14.89    | 15.89 | 15.39  | 0.00  |
| 59 Phenanthrene-d10 | 18.42    | 17.92    | 18.92 | 18.42  | 0.00  |
| 69 Chrysene-d12     | 23.45    | 22.95    | 23.95 | 23.45  | 0.00  |
| 77 Perylene-d12     | 26.19    | 25.69    | 26.69 | 26.19  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



REVIEW SUMMARY FOR FILE - NT10031509S.D

Lab ID: SLC0238-CAL2

nt10.i, 20230315.b\20230315.b\SIMABN2.m, 16-MAR-2023 01:00

RT CO-ELUTION COMPOUNDS

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NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

---

NONE

RRT check based on Ccal File: 20230315.b/NT10031510S.D

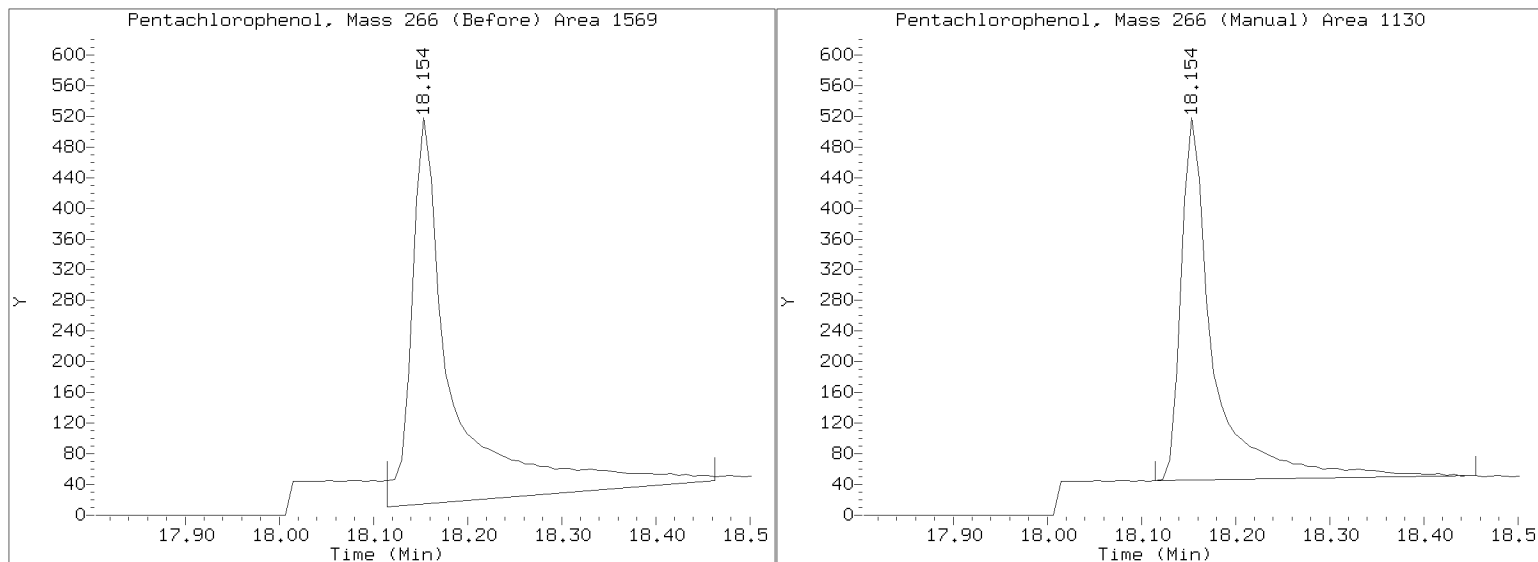
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

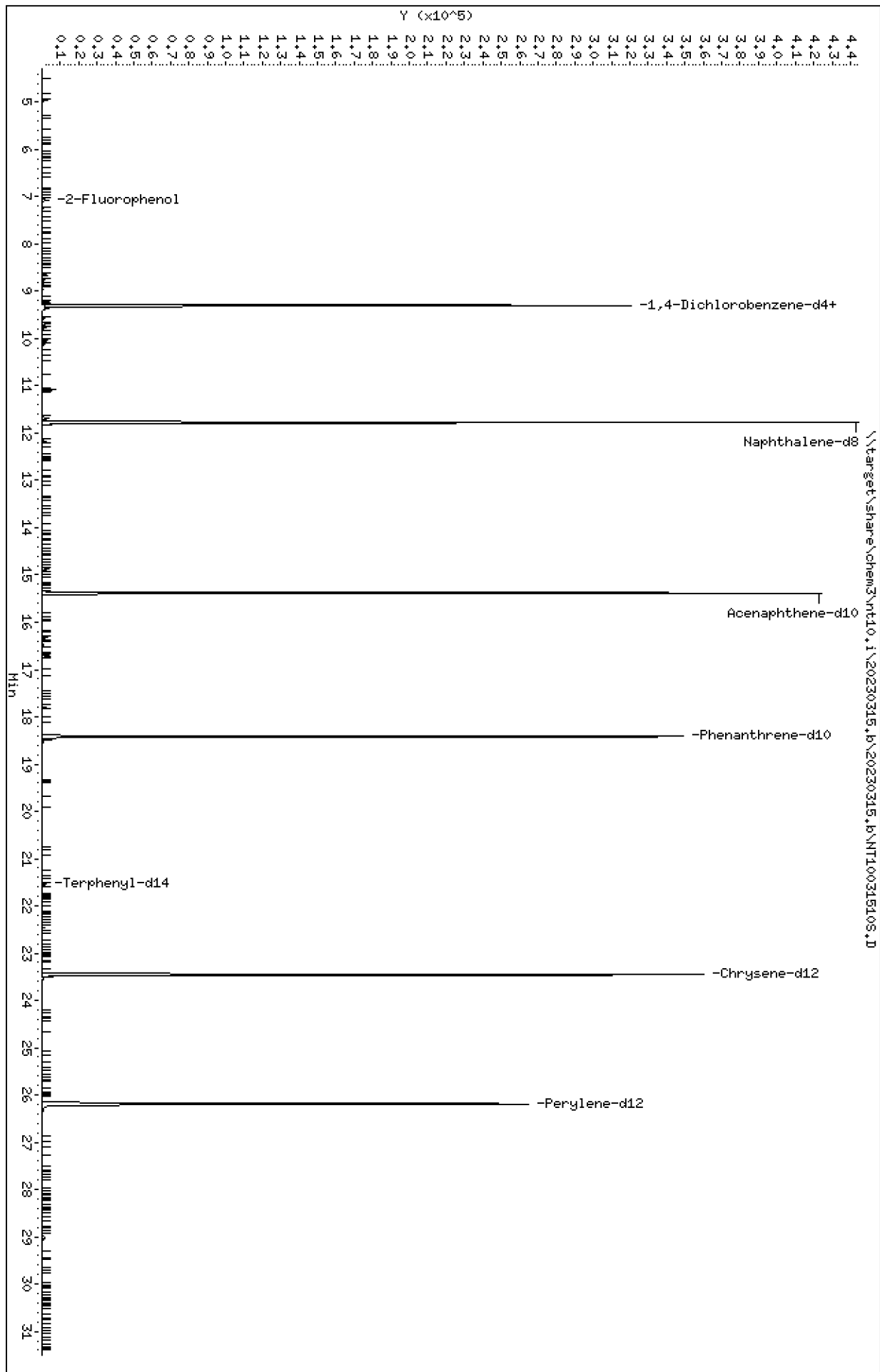
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031509S.D  
Injection Date: 16-MAR-2023 01:00  
Lab ID: SLC0238-CAL2 Client ID:  
Report Date: 03/16/2023 14:49



Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT10031510S.D  
 Date: 16-MAR-2023 01:38  
 Client ID:  
 Sample Info: SLC0238-CAL1  
 Volume Injected (uL): 1.0  
 Column phase: ZB-5msi

Instrument: nt10.1  
 Operator: JGR  
 Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031510S.D  
 Lab Smp Id: SLC0238-CAL1  
 Inj Date : 16-MAR-2023 01:38 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : SLC0238-CAL1  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 10 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

Concentration Formula:  $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | AMOUNTS         |                |
|-------------------------------|-------|-----|------------------------|--------|---------|----------|-----------------|----------------|
|                               |       |     |                        |        |         |          | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol           | 112   |     | 7.073                  | 7.073  | (0.761) | 3849     | 0.07500         | 0.06782        |
| 3 Phenol                      | 94    |     | 8.664                  | 8.664  | (0.932) | 3653     | 0.05000         | 0.04692        |
| 7 1,3-Dichlorobenzene         | 146   |     | 9.236                  | 9.236  | (0.993) | 3896     | 0.05000         | 0.05347        |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.298                  | 9.298  | (1.000) | 187154   | 4.00000         |                |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.329                  | 9.329  | (1.003) | 3725     | 0.05000         | 0.05296        |
| 11 Benzyl alcohol             | 79    |     | 9.570                  | 9.570  | (1.029) | 1831     | 0.05000         | 0.04056        |
| 12 1,2-Dichlorobenzene        | 146   |     | 9.686                  | 9.686  | (1.042) | 3651     | 0.05000         | 0.05278        |
| 13 2-Methylphenol             | 108   |     | 9.772                  | 9.772  | (1.051) | 2592     | 0.05000         | 0.04804        |
| 15 4-Methylphenol             | 108   |     | 10.036                 | 10.036 | (1.079) | 2412     | 0.05000         | 0.04302        |
| 16 N-Nitroso-di-n-propylamine | 70    |     | 10.113                 | 10.113 | (1.088) | 1741     | 0.05000         | 0.04391        |
| 22 2,4-Dimethylphenol         | 107   |     | 11.087                 | 11.087 | (0.942) | 4967     | 0.10000         | 0.08781        |
| 24 Benzoic acid               | 105   |     | Compound Not Detected. |        |         |          |                 |                |
| 26 1,2,4-Trichlorobenzene     | 180   |     | 11.690                 | 11.690 | (0.993) | 3146     | 0.05000         | 0.05529        |
| * 27 Naphthalene-d8           | 136   |     | 11.775                 | 11.775 | (1.000) | 654413   | 4.00000         |                |
| 30 Hexachlorobutadiene        | 225   |     | 12.169                 | 12.169 | (1.033) | 1885     | 0.05000         | 0.05449        |
| 39 Dimethylphthalate          | 163   |     | 14.877                 | 14.877 | (0.967) | 5095     | 0.05000         | 0.05062        |
| * 42 Acenaphthene-d10         | 162   |     | 15.380                 | 15.380 | (1.000) | 318969   | 4.00000         |                |
| 50 Diethylphthalate           | 149   |     | 16.324                 | 16.324 | (1.061) | 4381     | 0.05000         | 0.04201        |
| 54 N-Nitrosodiphenylamine     | 169   |     | 16.717                 | 16.717 | (0.908) | 3307     | 0.05000         | 0.04226        |
| 57 Hexachlorobenzene          | 284   |     | 17.798                 | 17.798 | (0.966) | 1826     | 0.05000         | 0.05212        |

| Compounds                 | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|---------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                           | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| 58 Pentachlorophenol      | 266       |  | 18.154 | 18.154 | (0.986) | 337      | 0.10000            | 0.01743 (M)       |
| * 59 Phenanthrene-d10     | 188       |  | 18.417 | 18.417 | (1.000) | 583319   | 4.00000            |                   |
| \$ 66 Terphenyl-d14       | 244       |  | 21.543 | 21.543 | (0.918) | 3504     | 0.05000            | 0.04882           |
| 67 Butylbenzylphthalate   | 149       |  | 22.464 | 22.465 | (0.958) | 1336     | 0.05000            | 0.02307           |
| * 69 Chrysene-d12         | 240       |  | 23.455 | 23.455 | (1.000) | 440533   | 4.00000            |                   |
| * 77 Perylene-d12         | 264       |  | 26.188 | 26.188 | (1.000) | 488759   | 4.00000            |                   |
| 79 Dibenzo(a,h)anthracene | 278       |  | 29.018 | 29.019 | (1.108) | 4785     | 0.05000            | 0.02982           |
| 90 N-Nitrosodimethylamine | 74        |  | 4.948  | 4.948  | (0.532) | 3496     | 0.10000            | 0.09712           |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT10031510S.D  
 Lab Smp Id: SLC0238-CAL1  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Misc Info:

Calibration Date: 15-MAR-2023  
 Calibration Time: 23:06  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 188081   | 94041      | 376162  | 187154 | -0.49 |
| 27 Naphthalene-d8   | 674549   | 337275     | 1349098 | 654413 | -2.99 |
| 42 Acenaphthene-d10 | 328275   | 164138     | 656550  | 318969 | -2.83 |
| 59 Phenanthrene-d10 | 597140   | 298570     | 1194280 | 583319 | -2.31 |
| 69 Chrysene-d12     | 466503   | 233252     | 933006  | 440533 | -5.57 |
| 77 Perylene-d12     | 518203   | 259102     | 1036406 | 488759 | -5.68 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.30     | 8.80     | 9.80  | 9.30   | 0.00  |
| 27 Naphthalene-d8   | 11.77    | 11.27    | 12.27 | 11.78  | 0.01  |
| 42 Acenaphthene-d10 | 15.39    | 14.89    | 15.89 | 15.38  | -0.04 |
| 59 Phenanthrene-d10 | 18.42    | 17.92    | 18.92 | 18.42  | -0.04 |
| 69 Chrysene-d12     | 23.45    | 22.95    | 23.95 | 23.46  | 0.00  |
| 77 Perylene-d12     | 26.19    | 25.69    | 26.69 | 26.19  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT10031510S.D

Lab ID: SLC0238-CAL1

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

16-MAR-2023 01:38

RT CO-ELUTION COMPOUNDS

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NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

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NONE

RRT check based on Ccal File: 20230315.b/NT10031510S.D

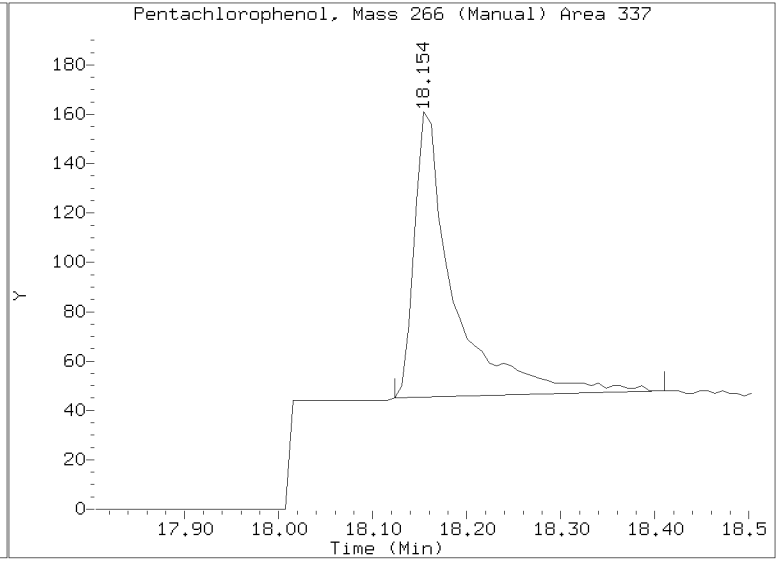
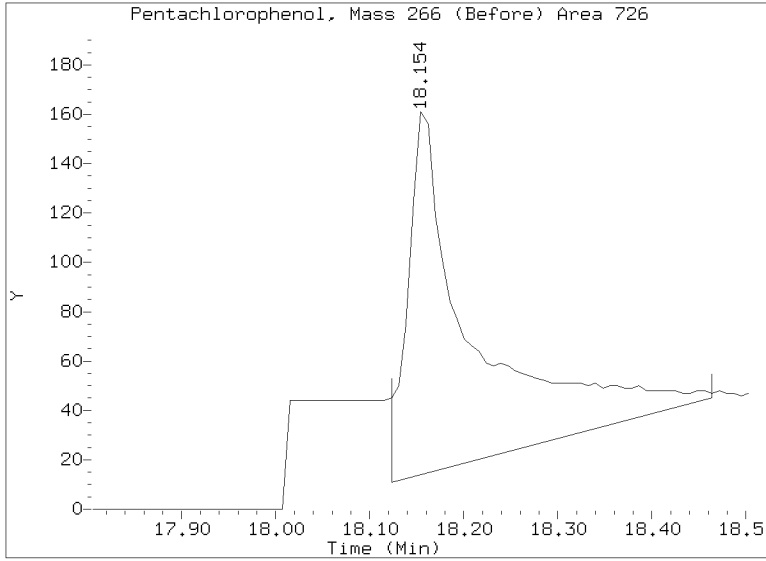
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031510S.D  
Injection Date: 16-MAR-2023 01:38  
Lab ID: SLC0238-CAL1 Client ID:  
Report Date: 03/16/2023 14:49

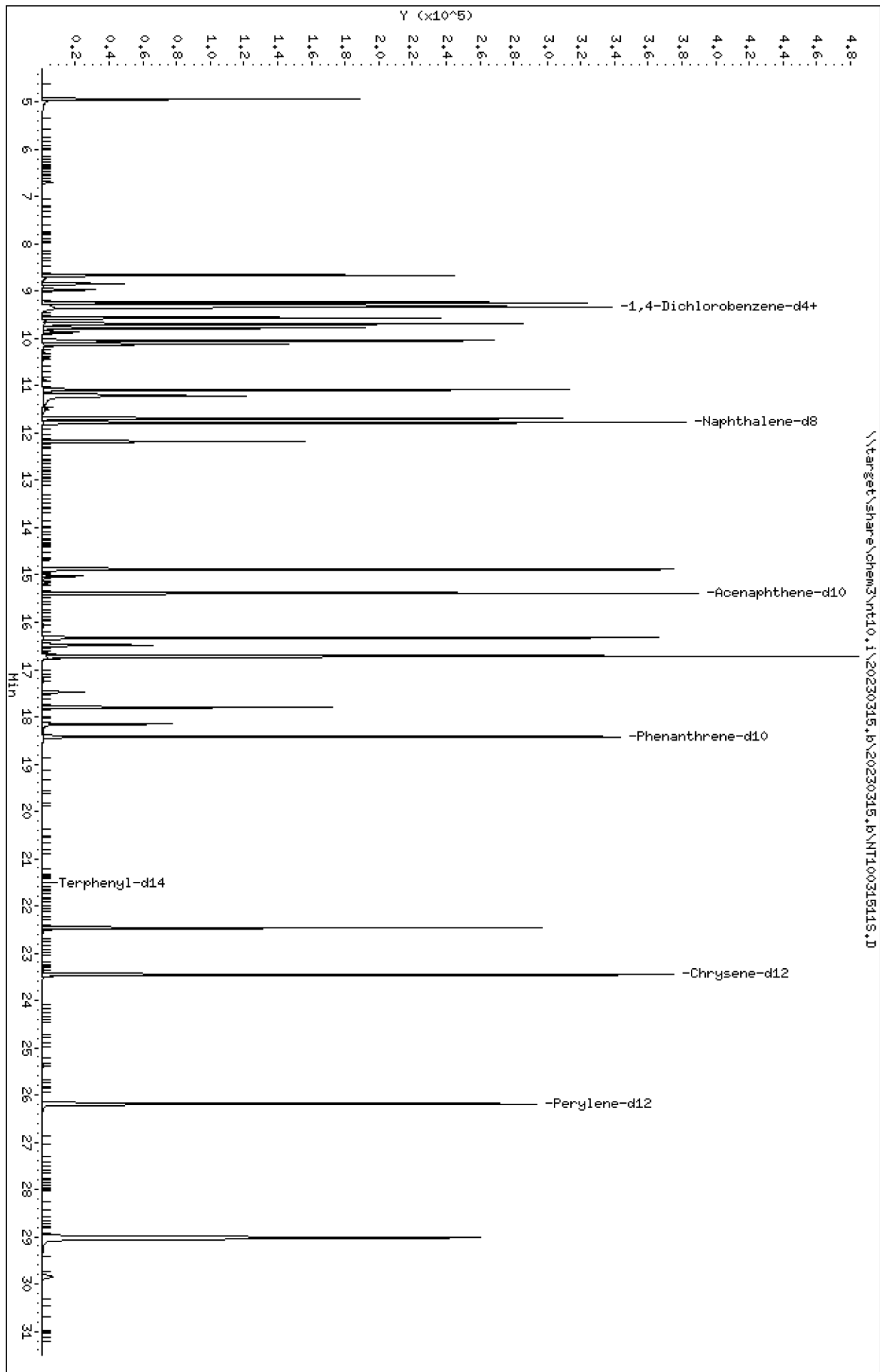




Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT100315115.D  
 Date: 16-MAR-2023 02:16  
 Client ID:  
 Sample Info: SLC0238-SCV1  
 Volume Injected (uL): 1.0  
 Column phase: ZB-5msi

Instrument: nt10.1  
 Operator: JGR  
 Column diameter: 0.25

\\target\share\chem3\nt10.1\20230315.1\20230315.1\NT100315115.D



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

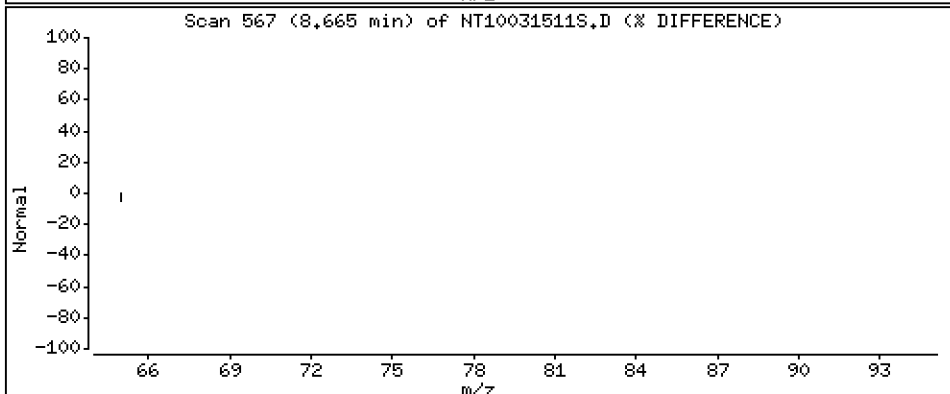
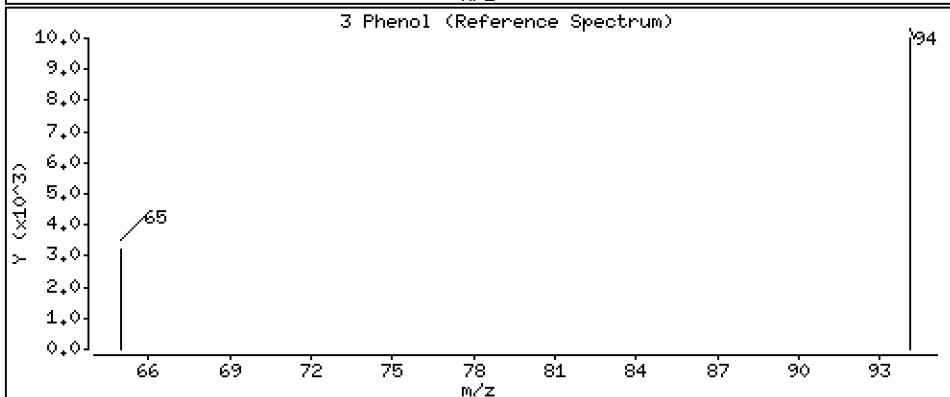
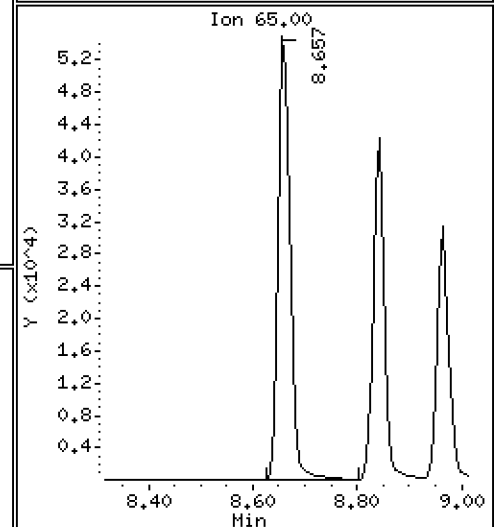
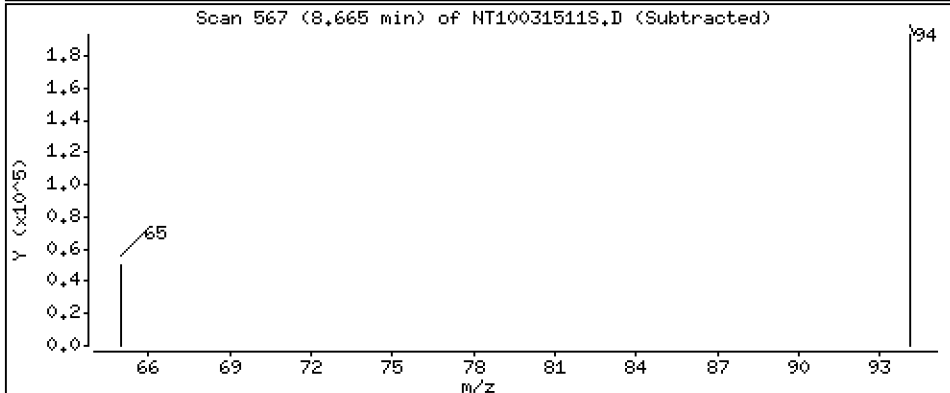
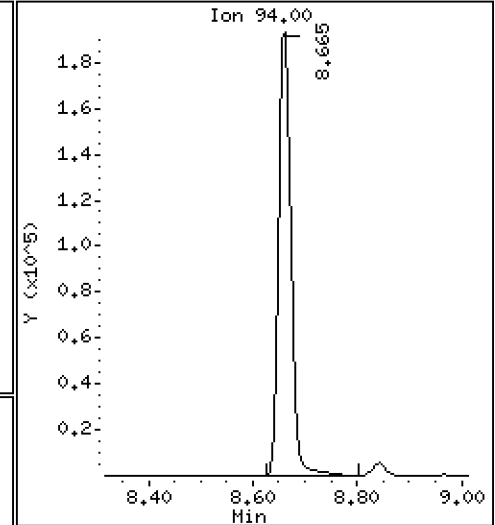
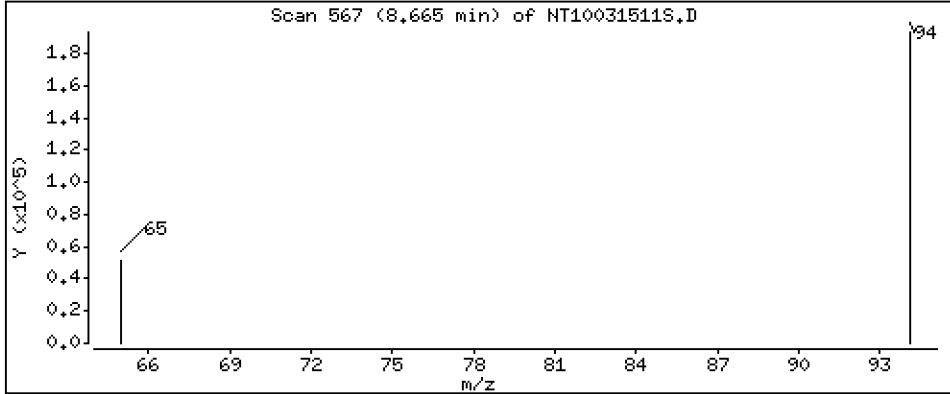
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 4.373 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

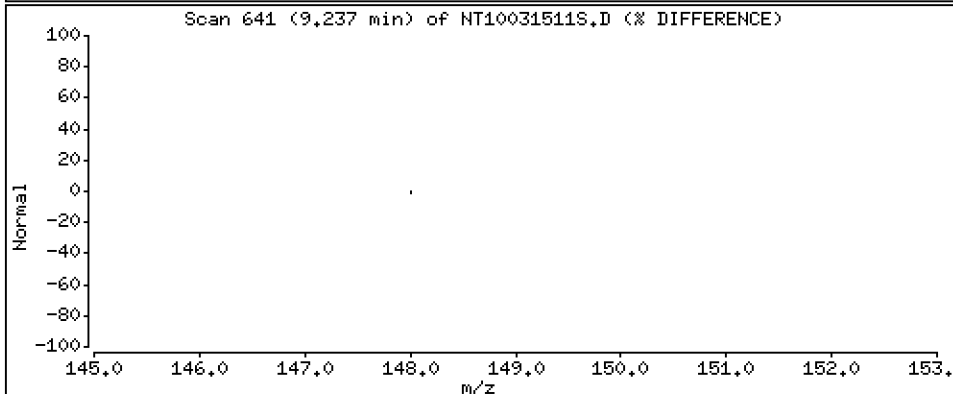
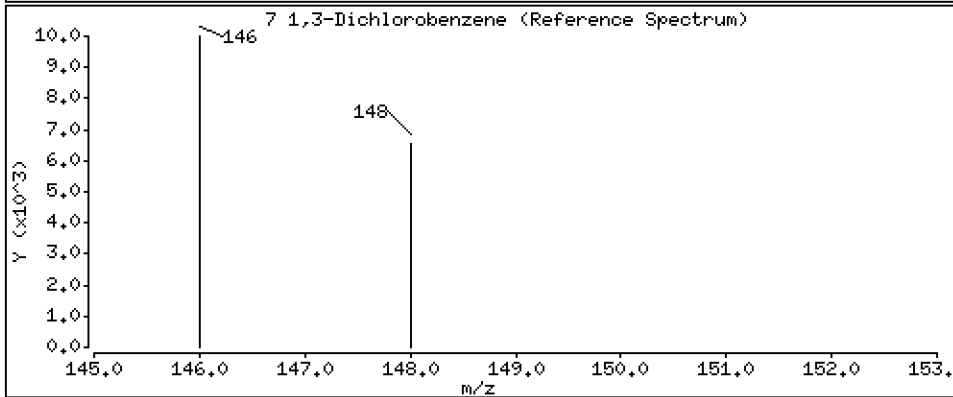
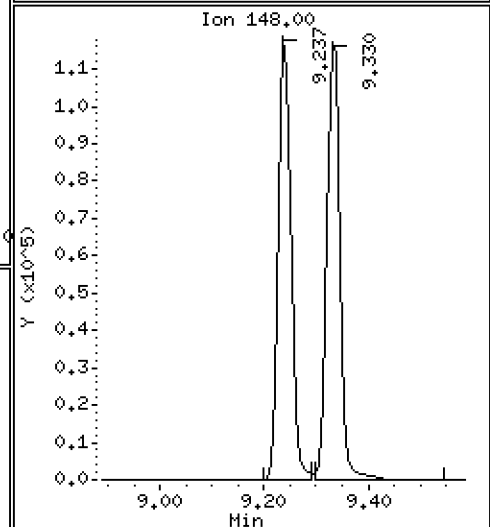
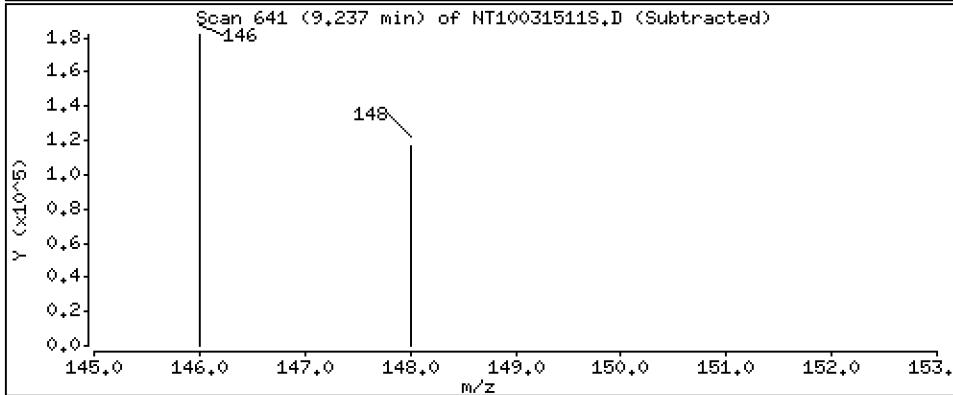
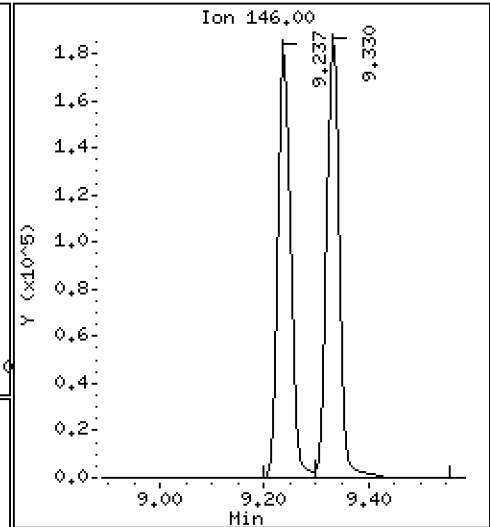
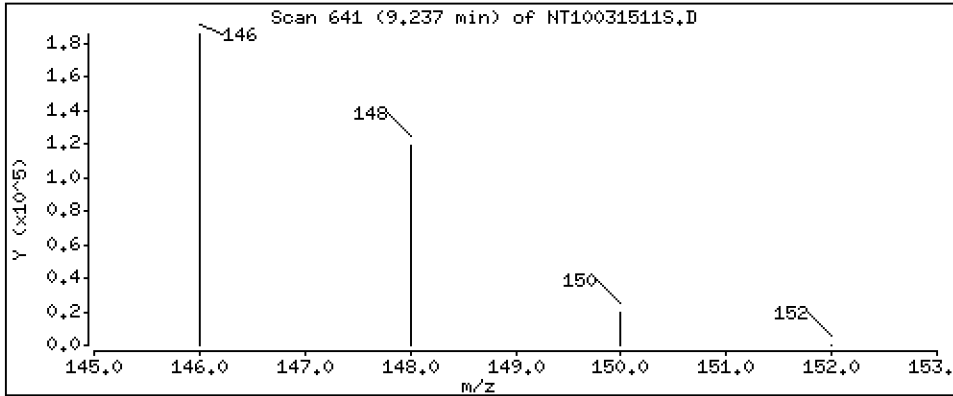
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 4.643 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

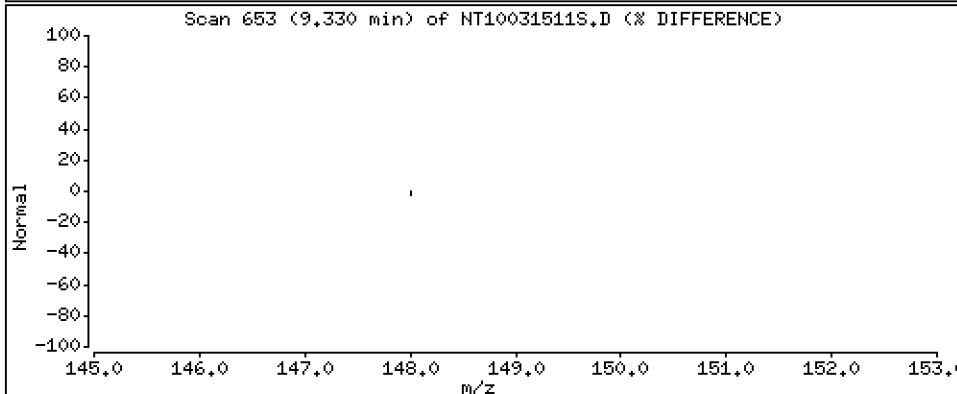
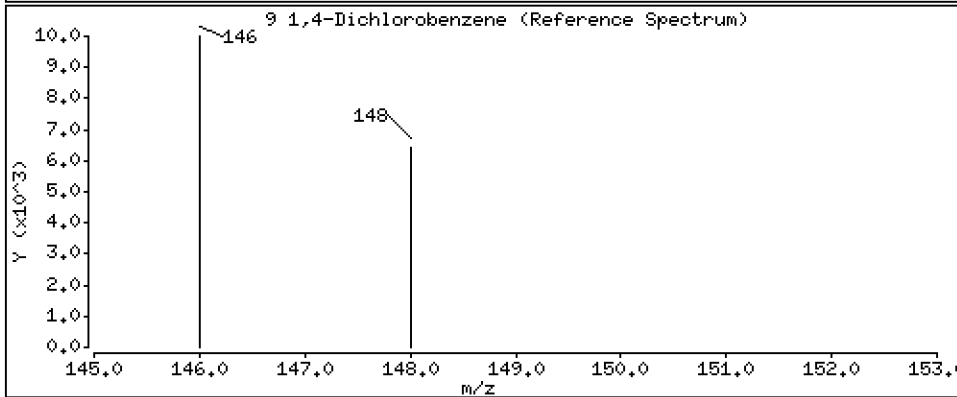
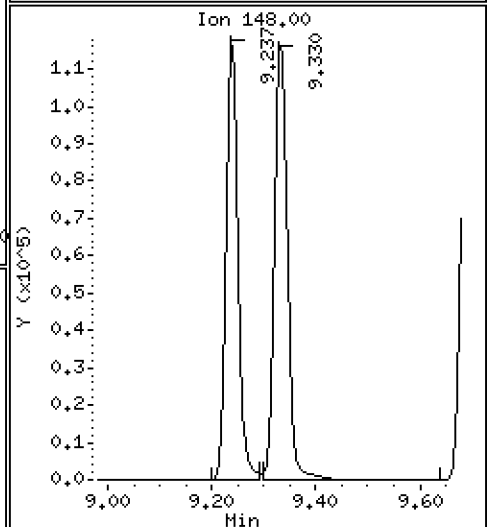
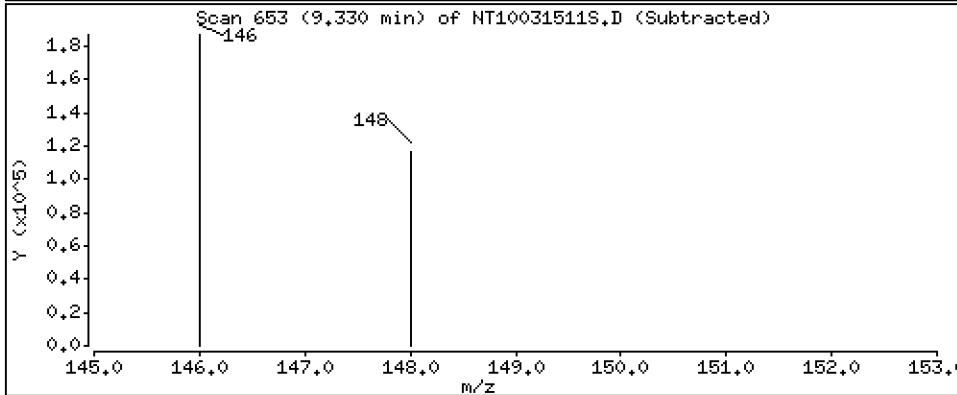
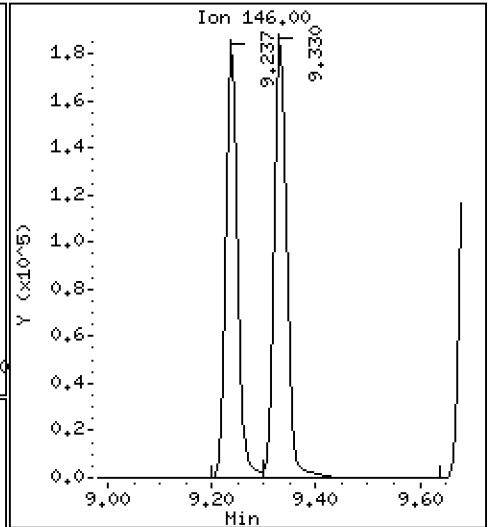
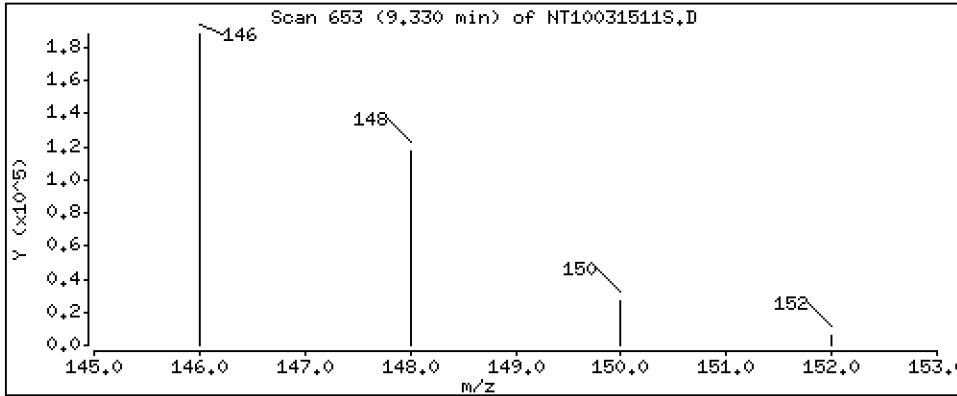
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 4.838 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

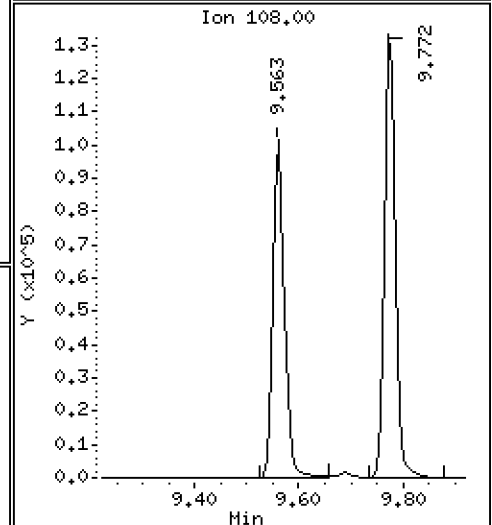
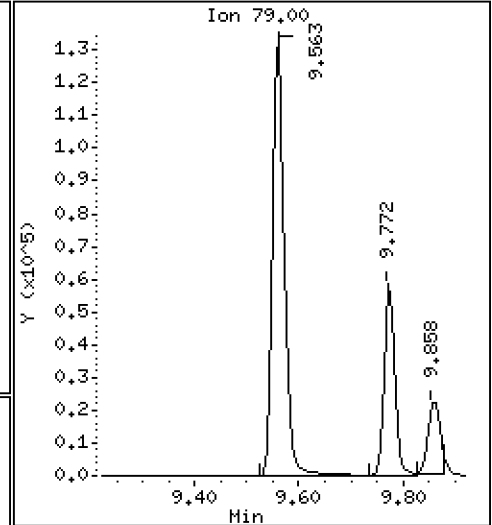
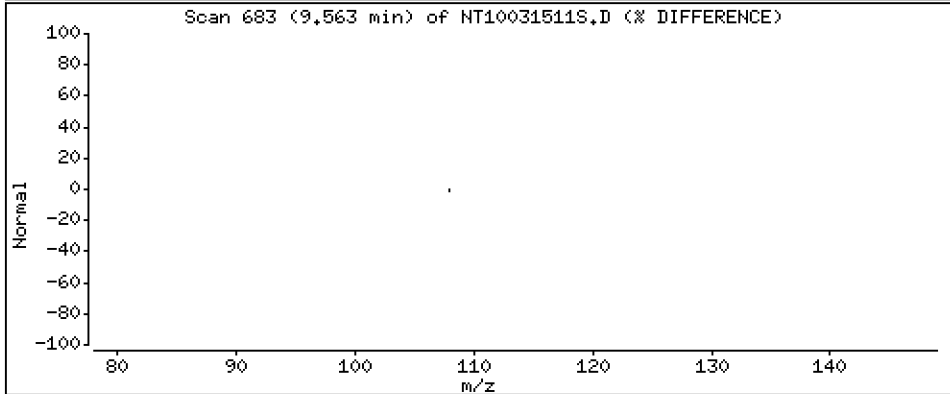
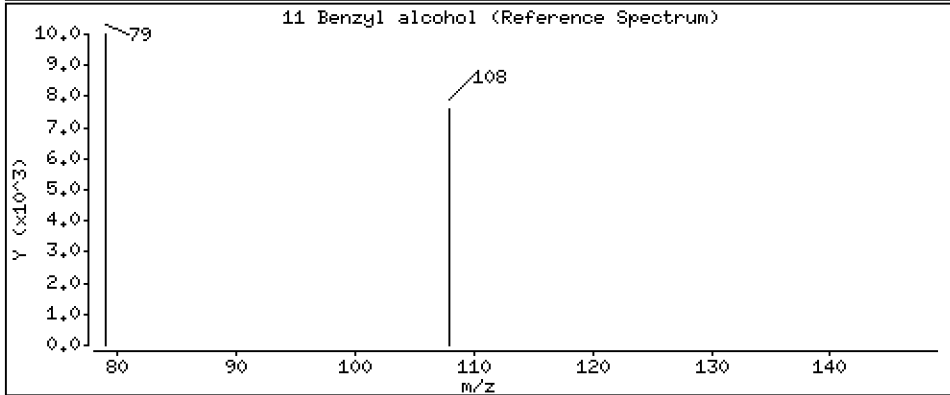
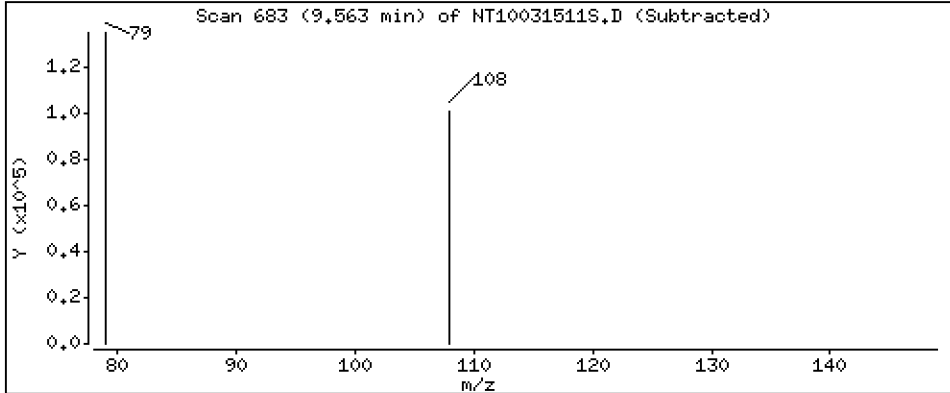
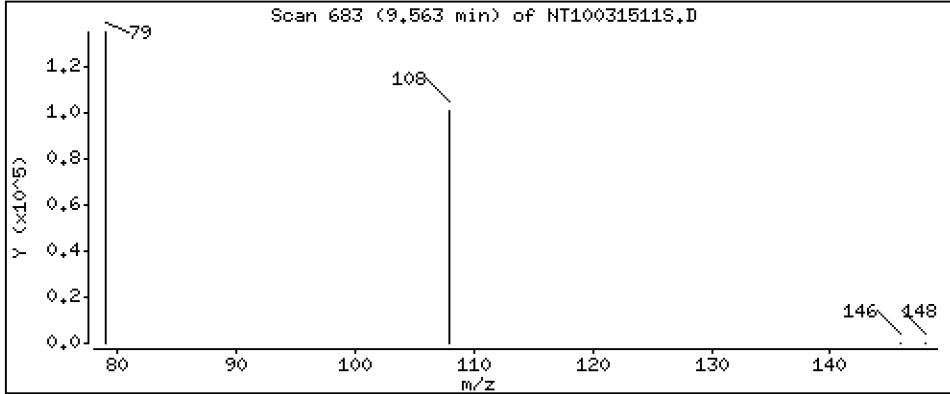
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 5.181 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

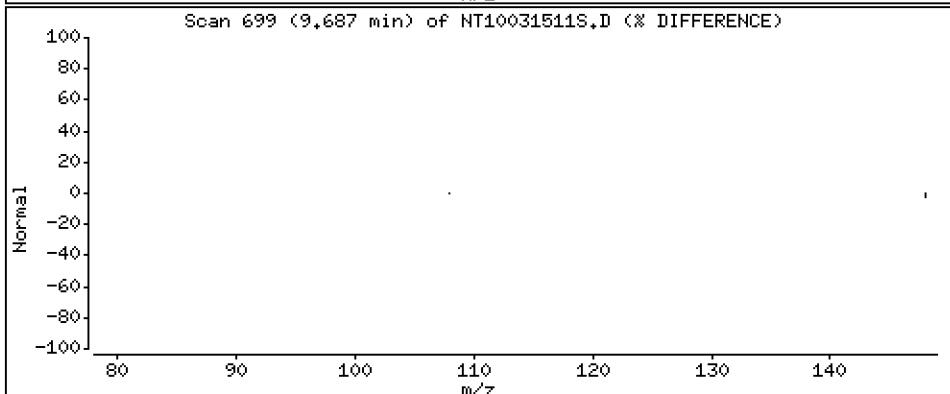
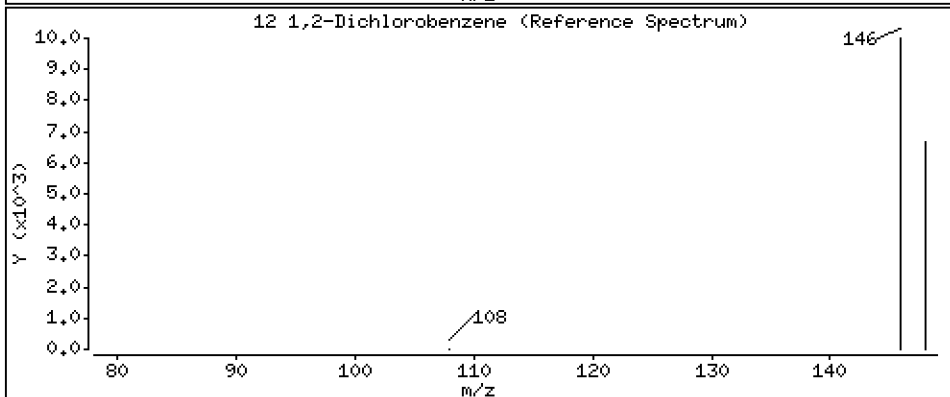
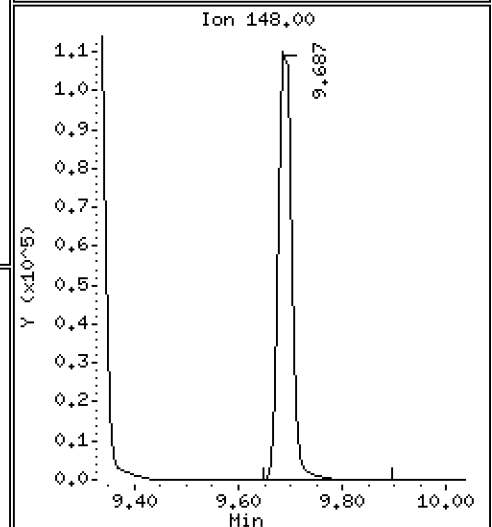
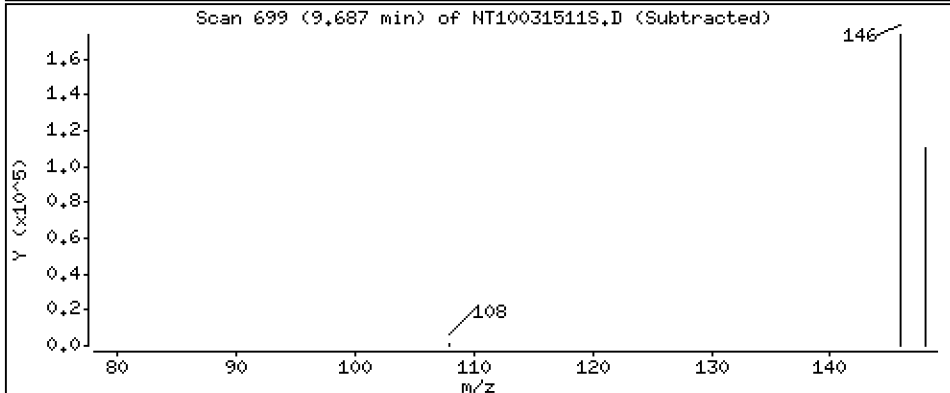
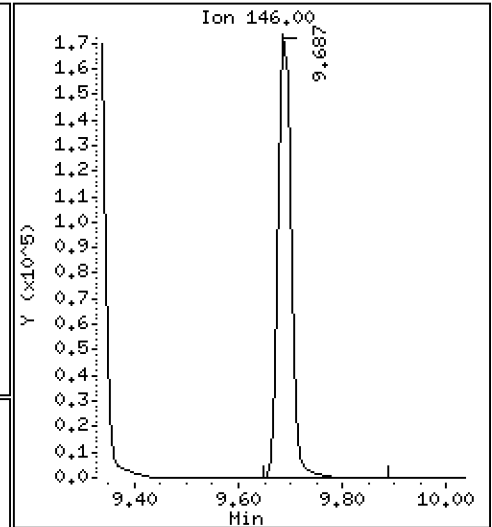
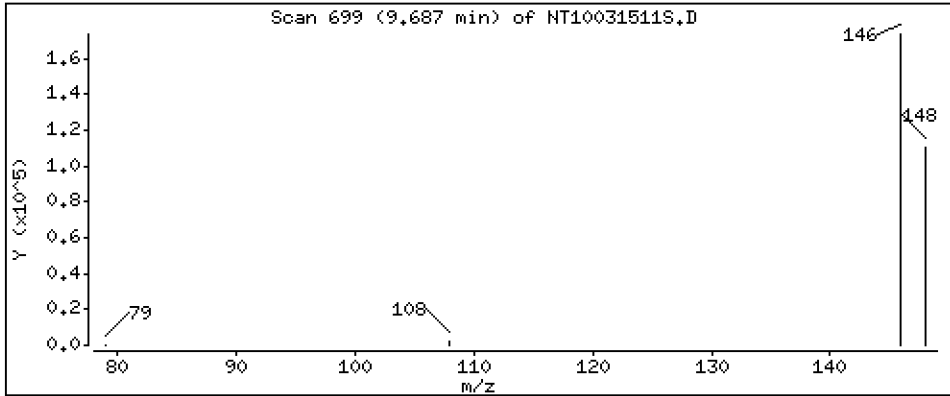
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 4.679 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

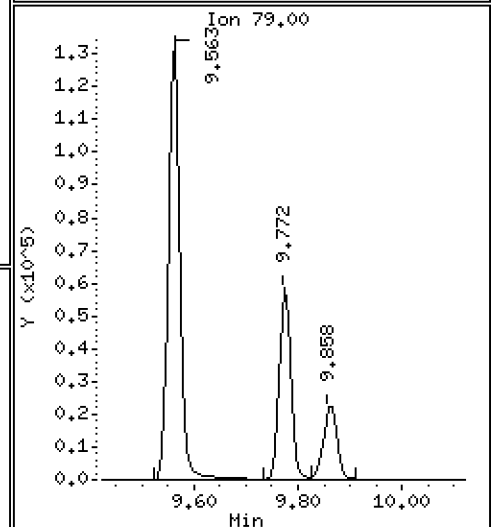
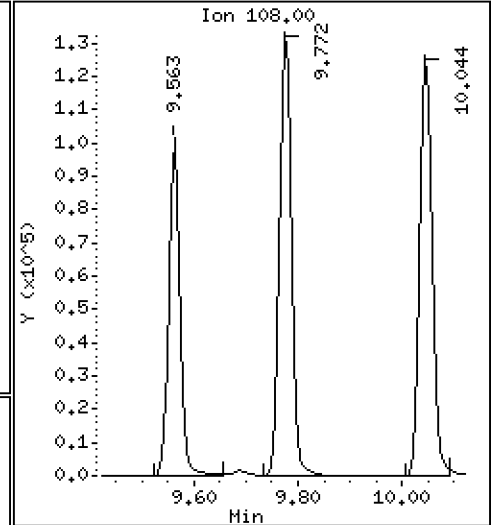
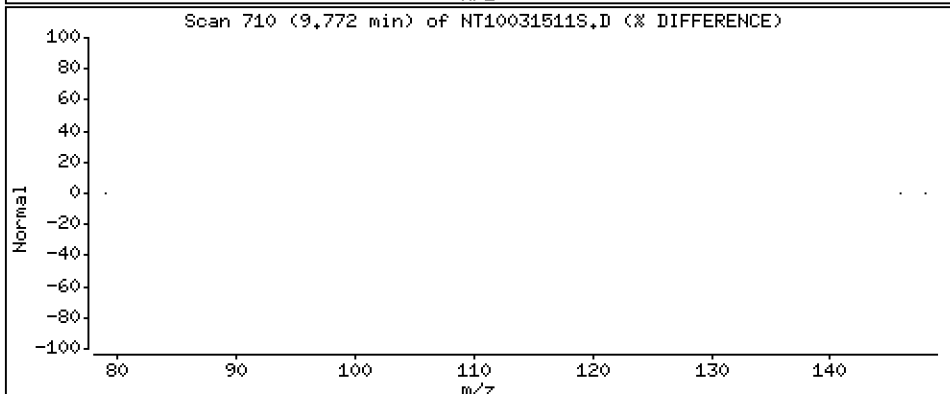
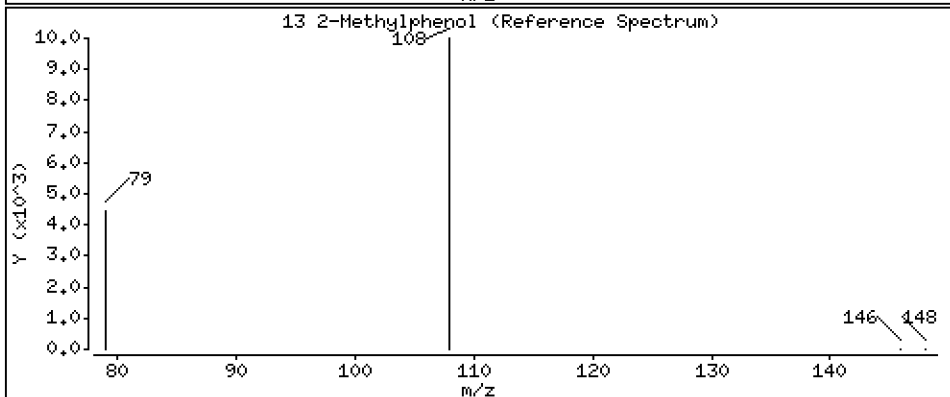
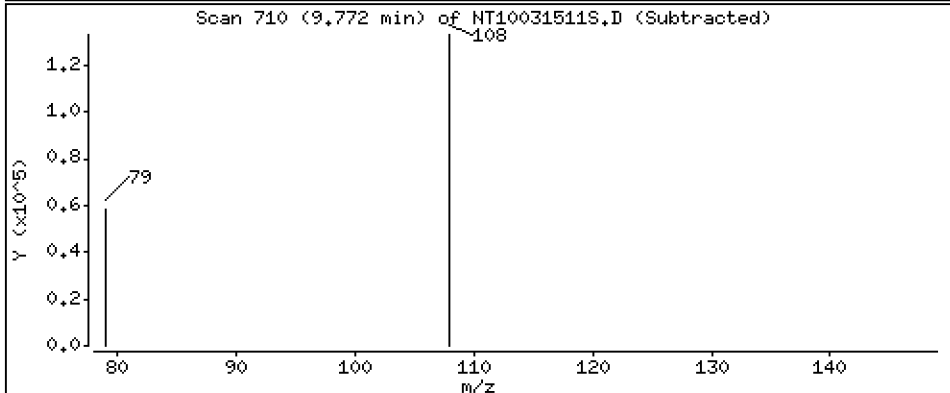
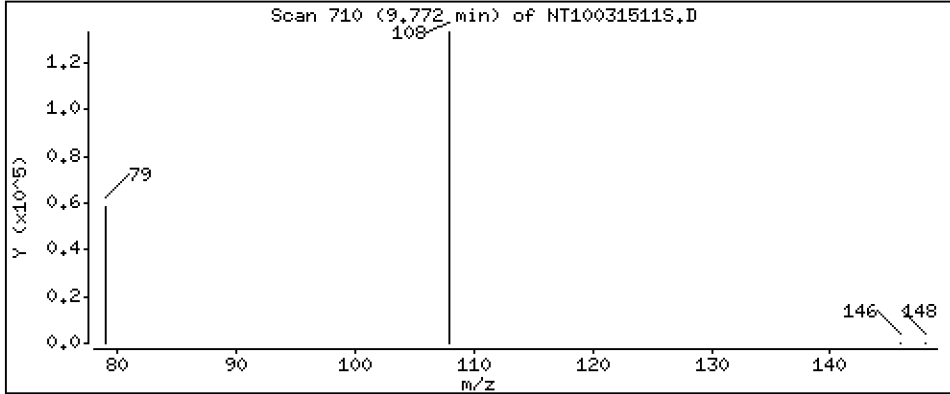
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.197 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

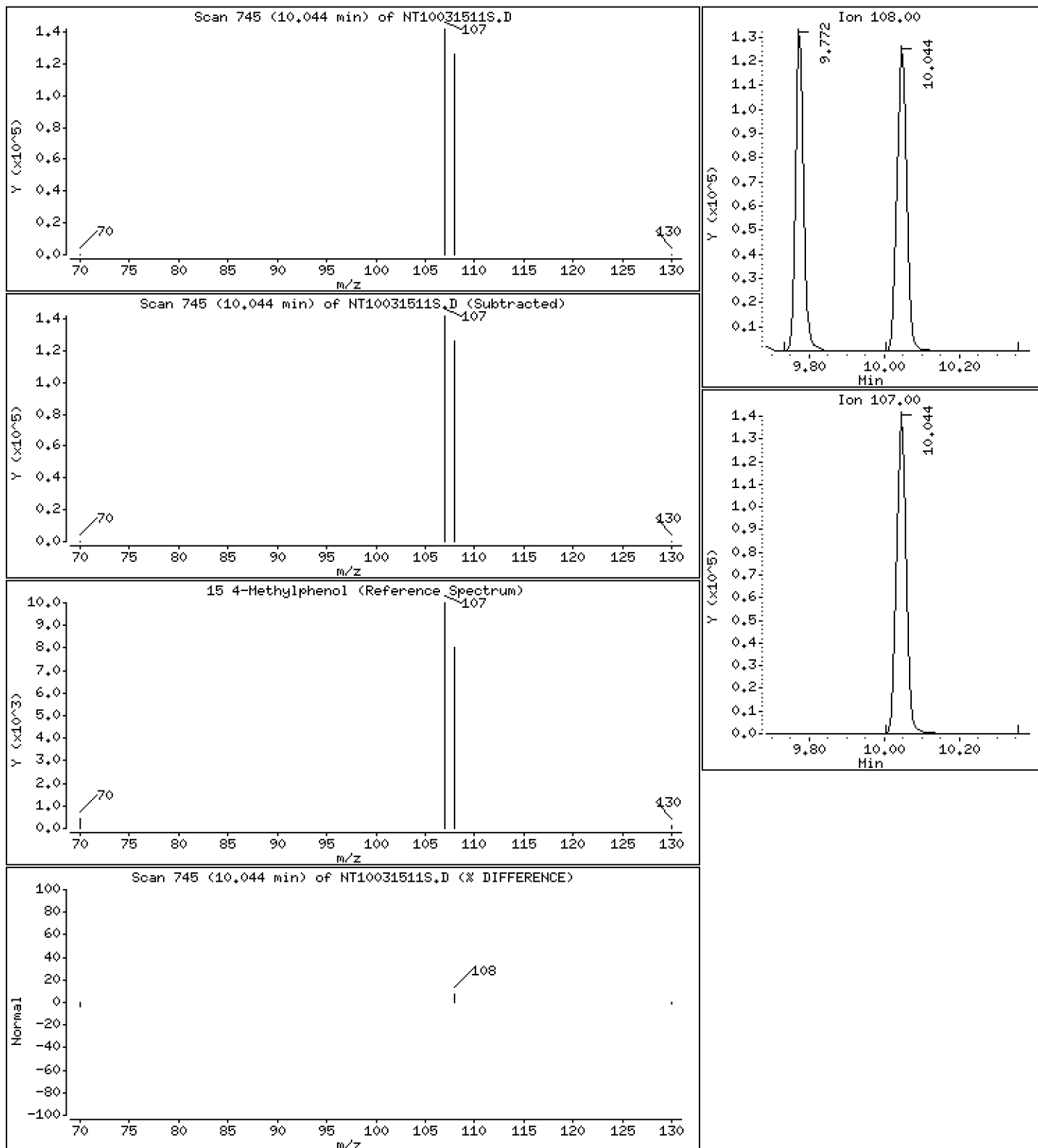
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,463 ug/L





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

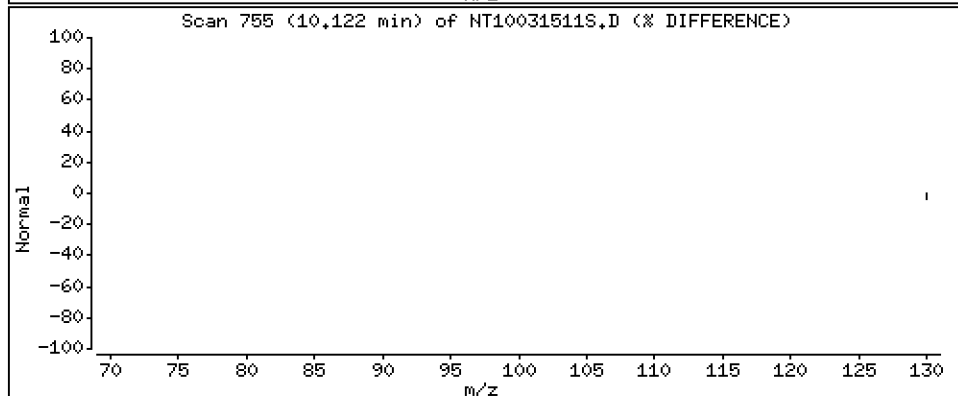
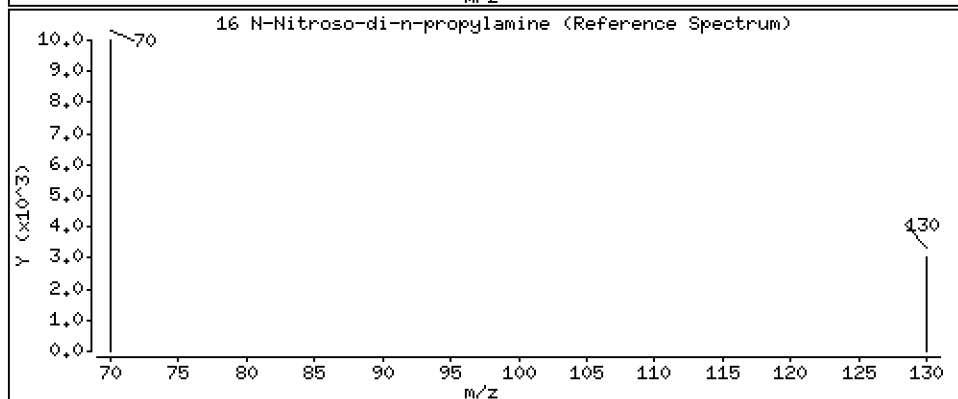
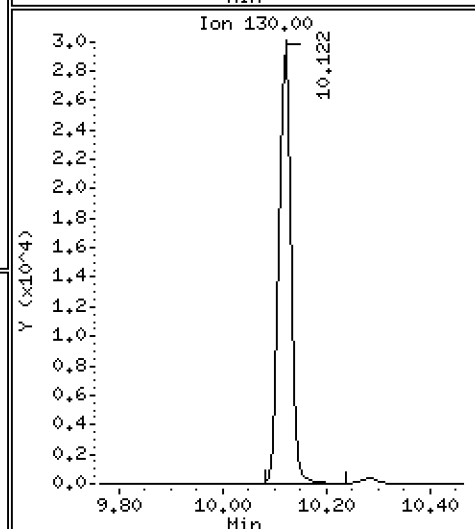
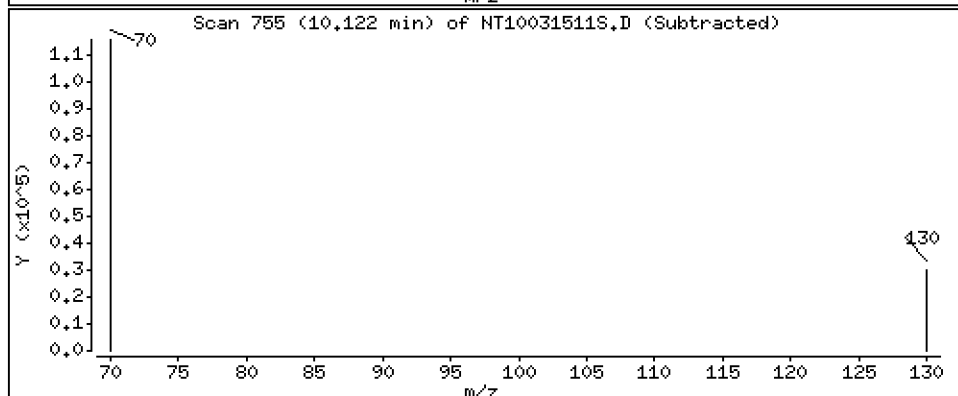
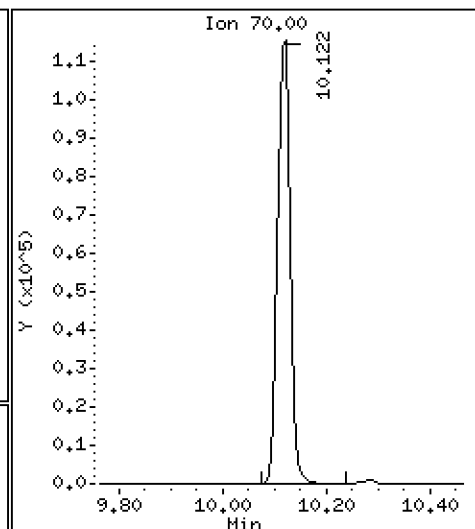
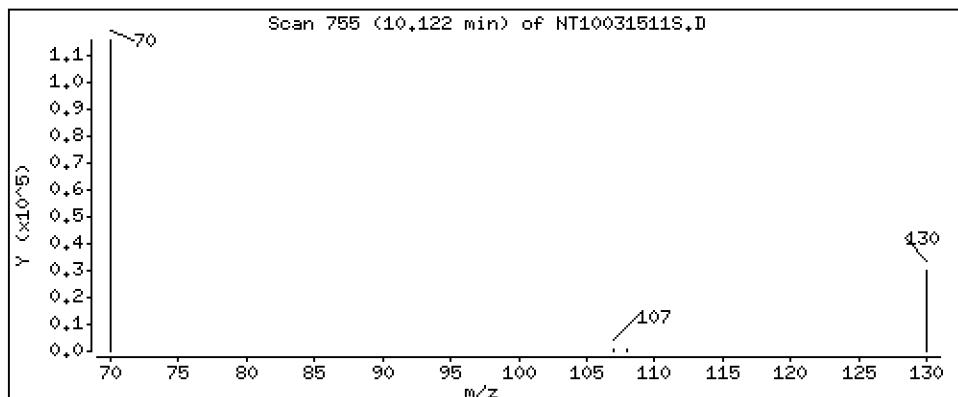
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,282 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

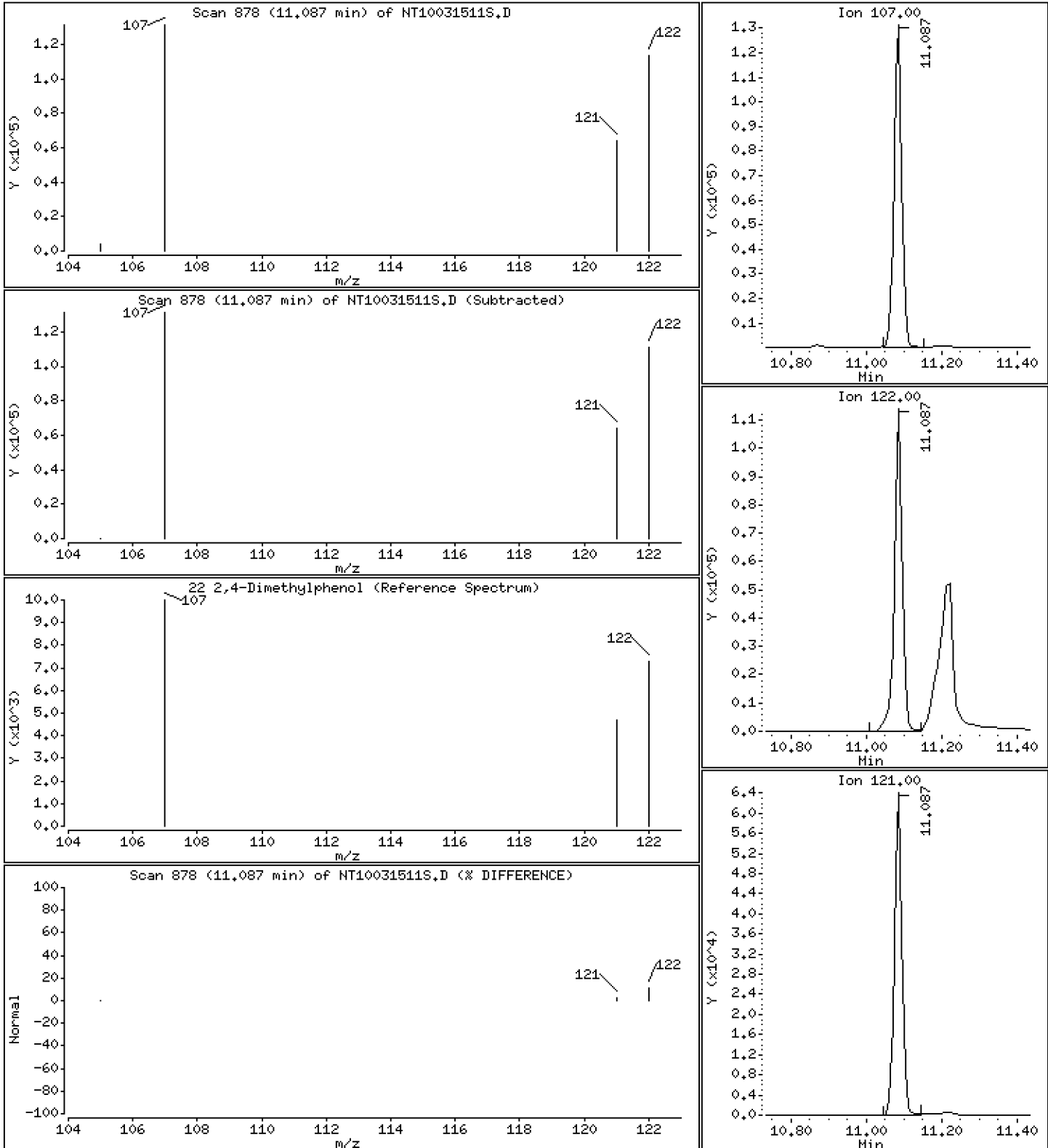
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 3,660 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

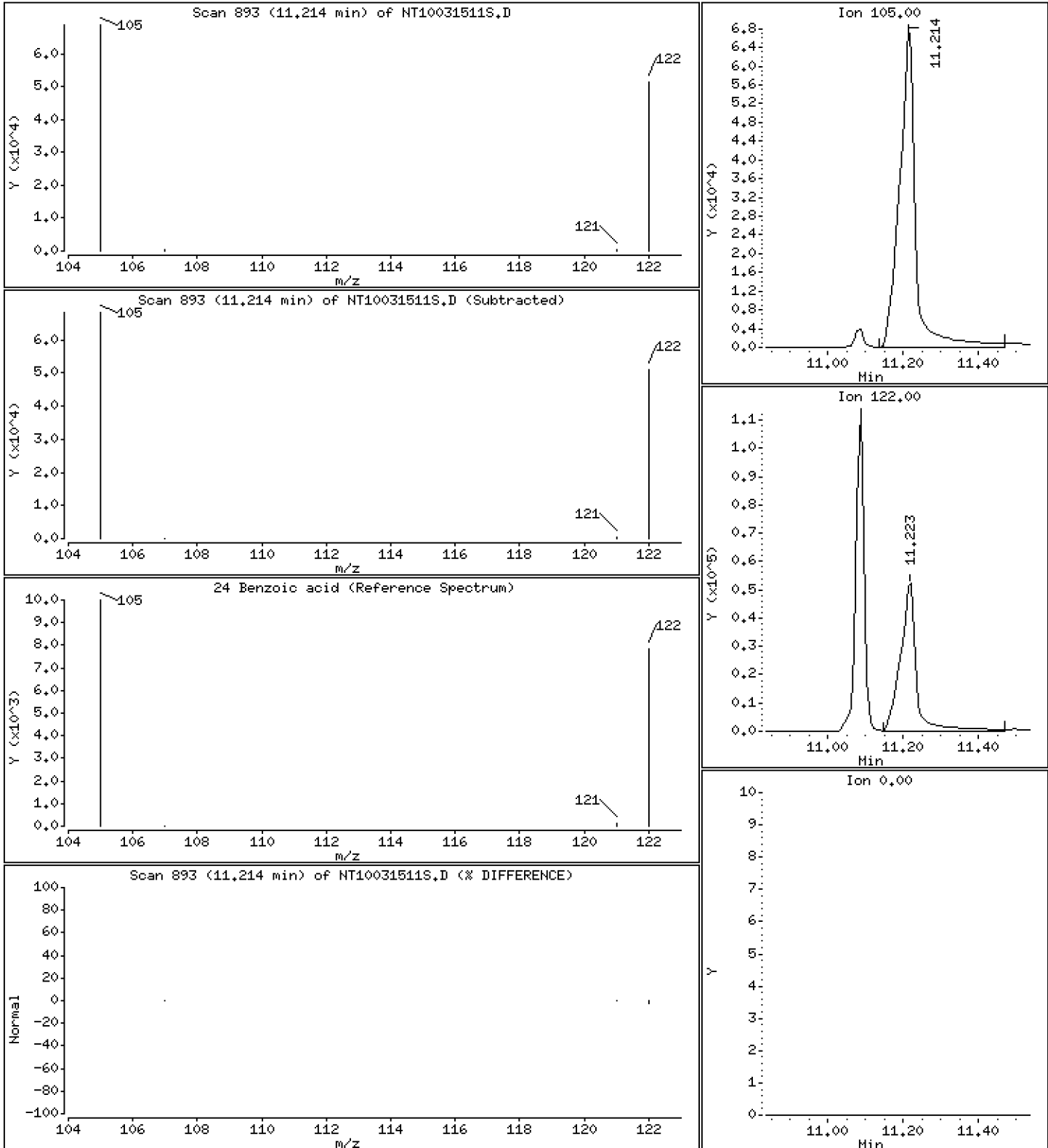
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 6,746 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

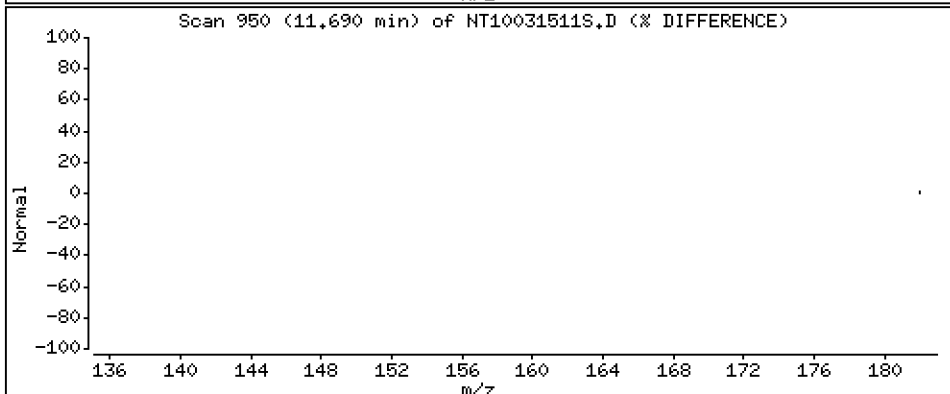
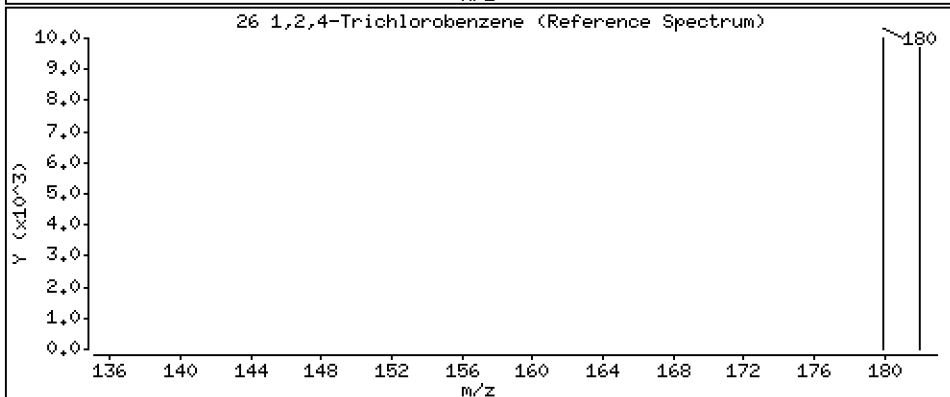
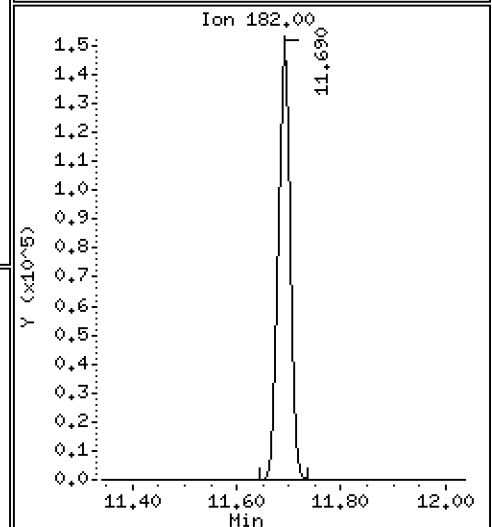
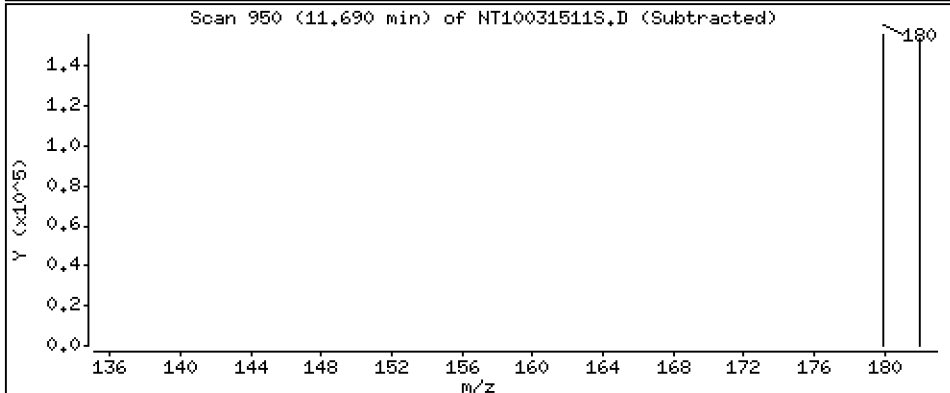
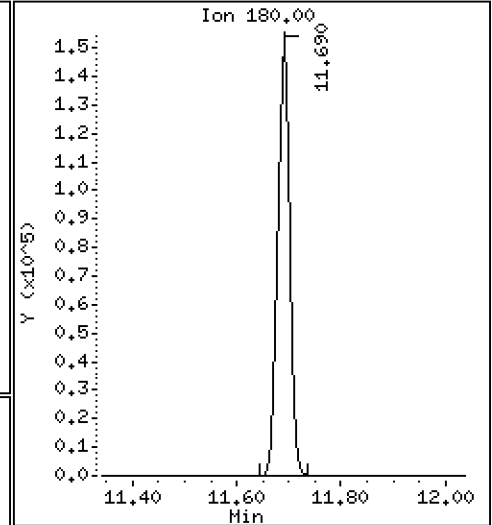
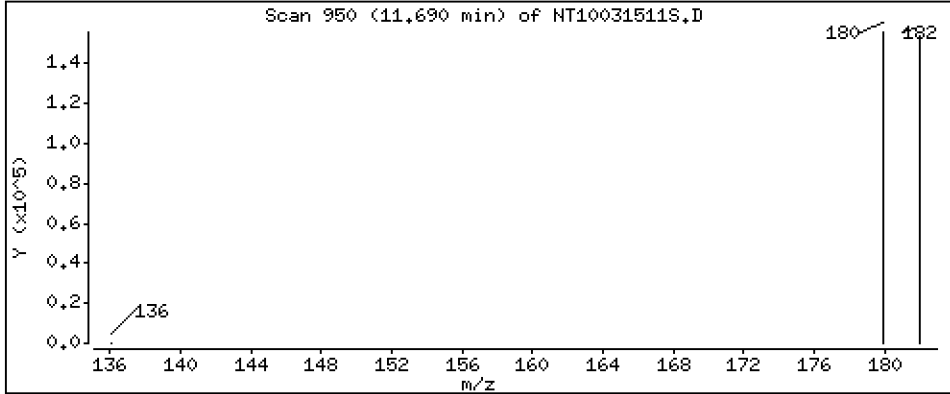
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,445 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

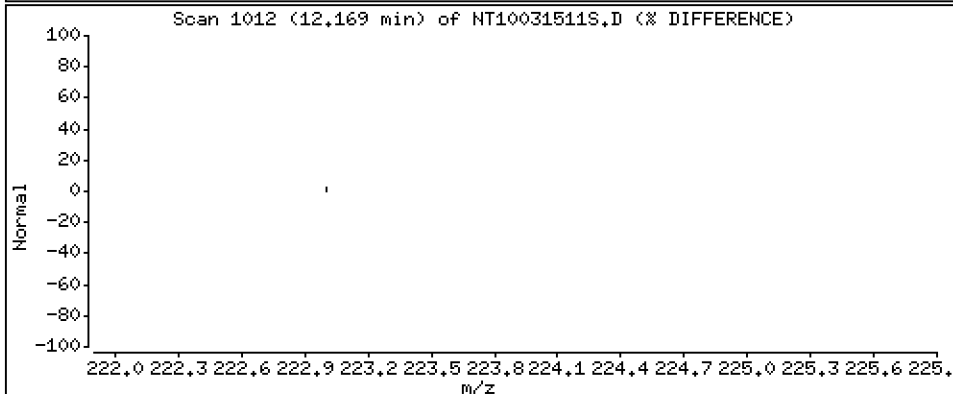
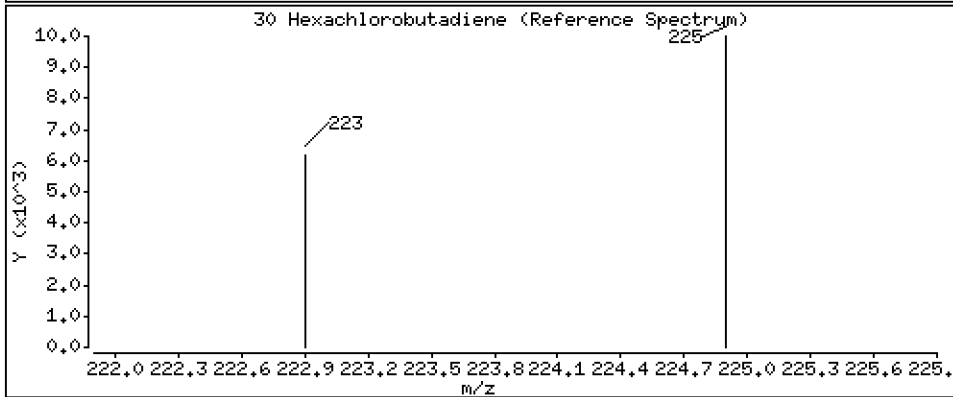
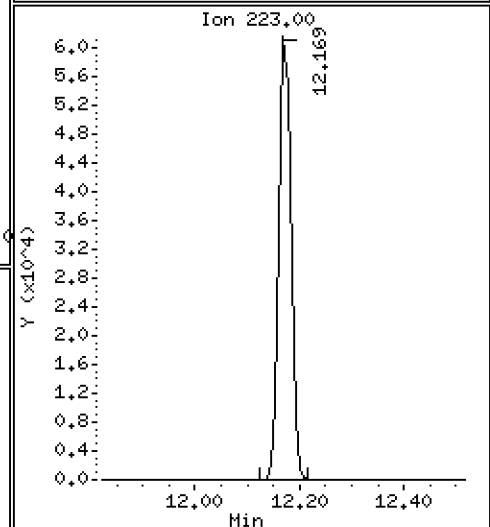
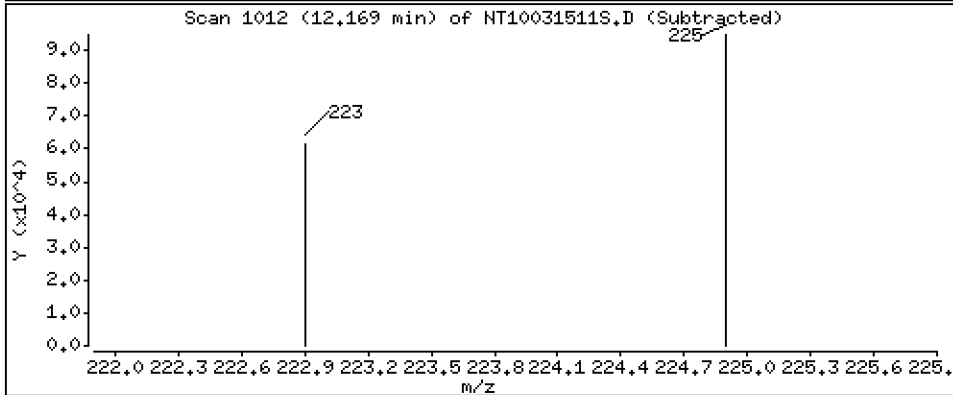
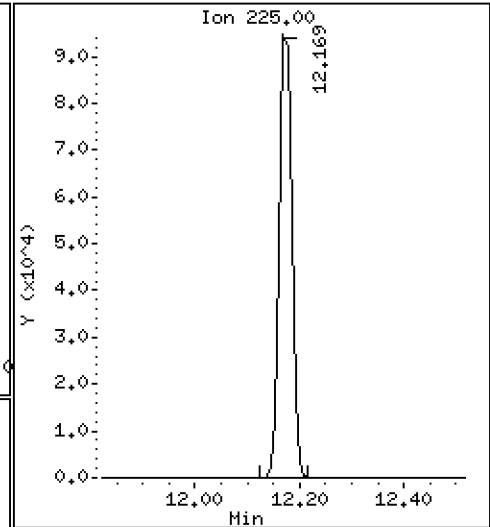
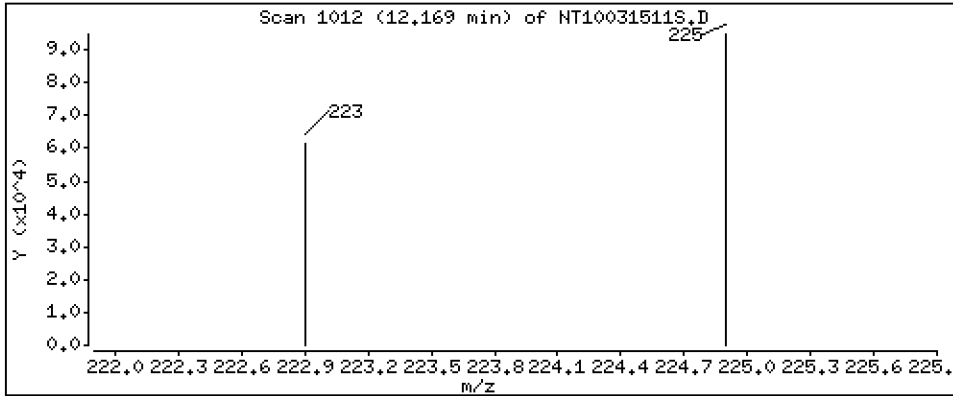
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,653 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

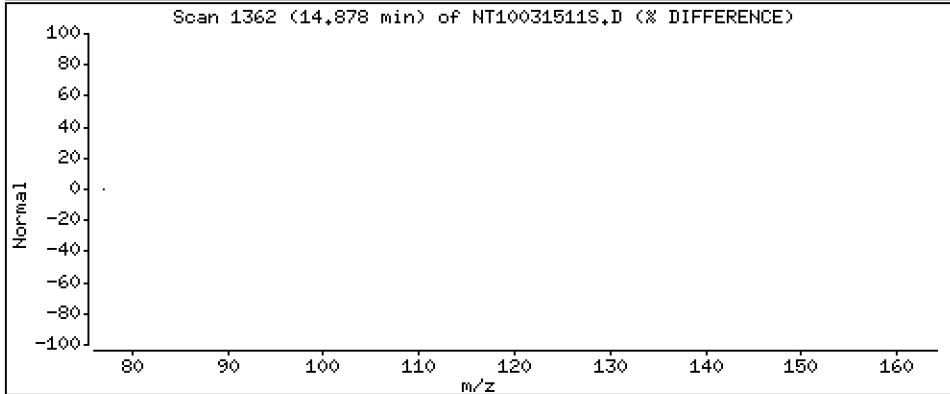
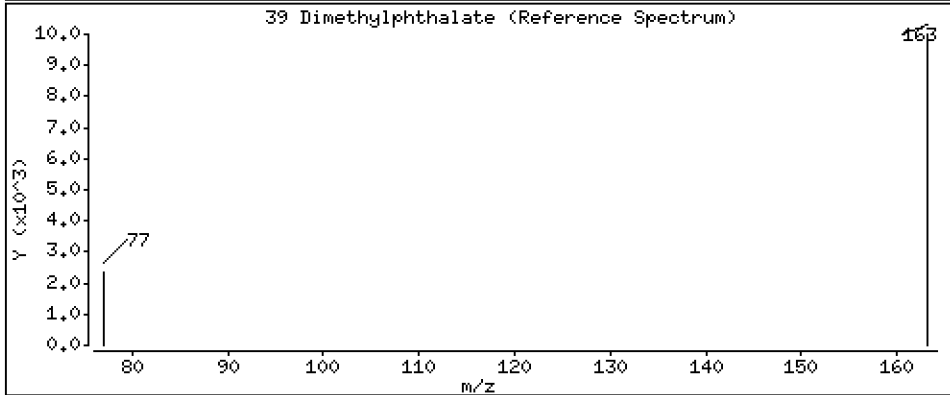
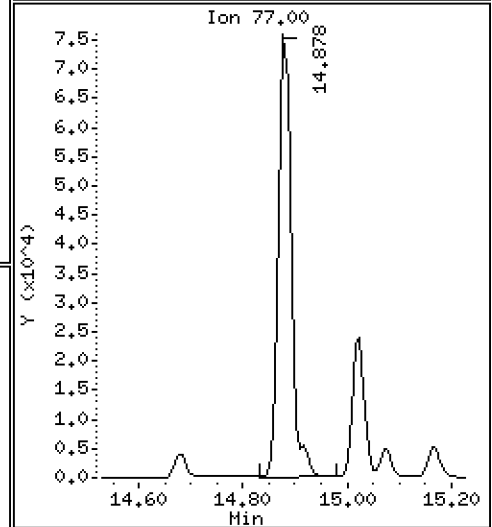
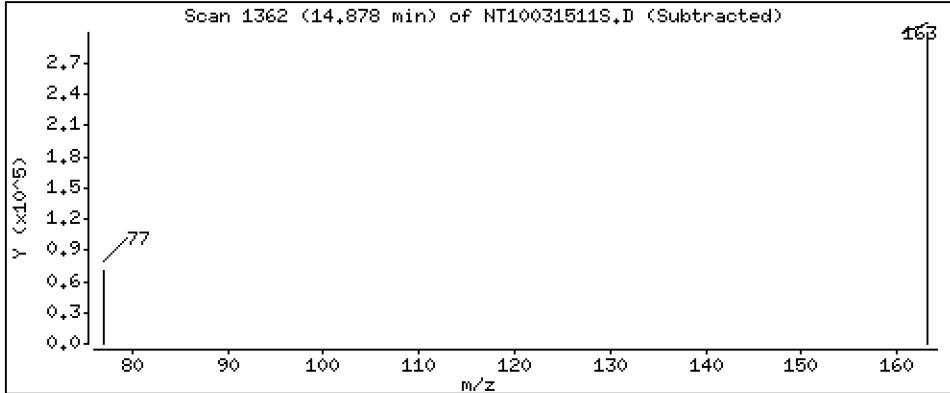
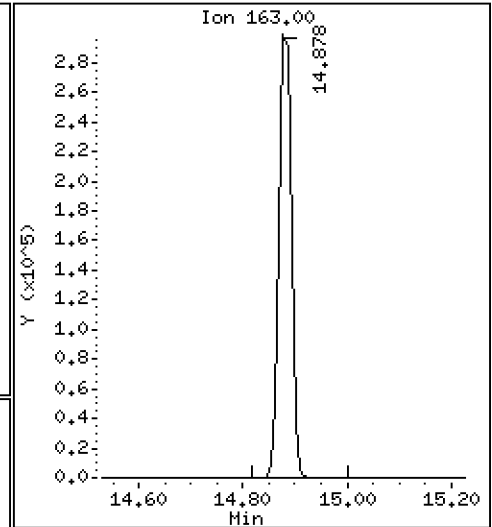
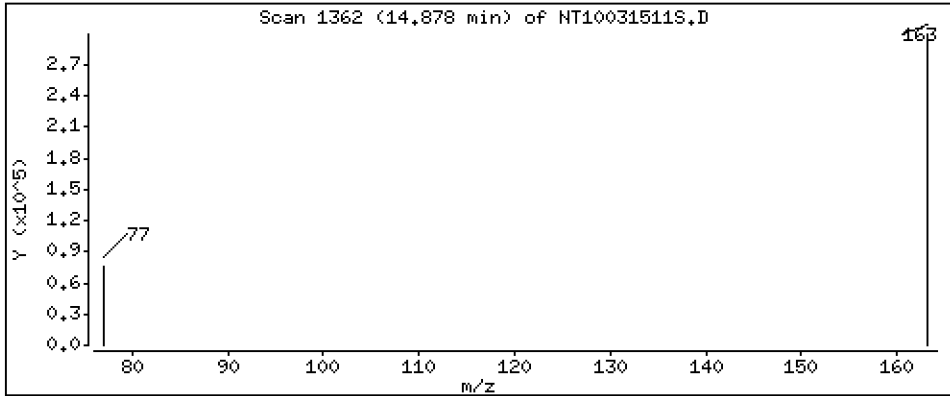
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,948 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

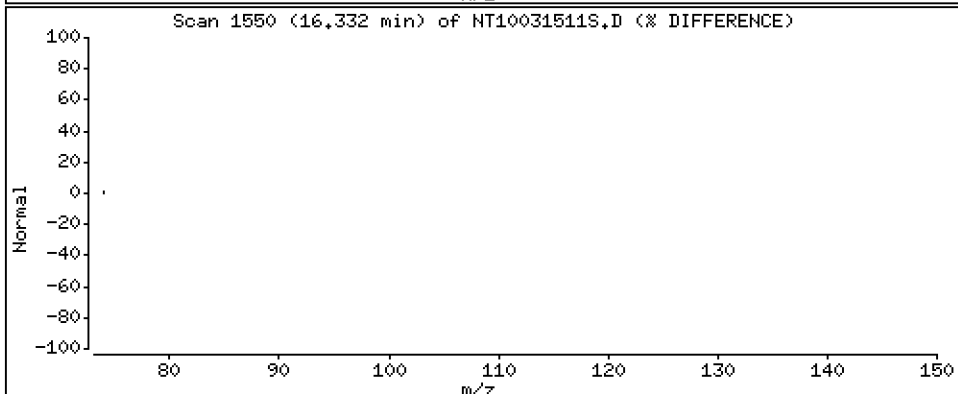
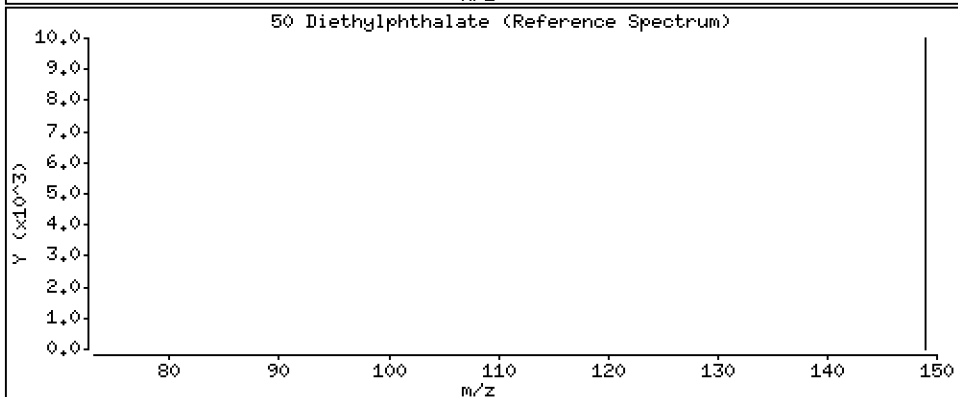
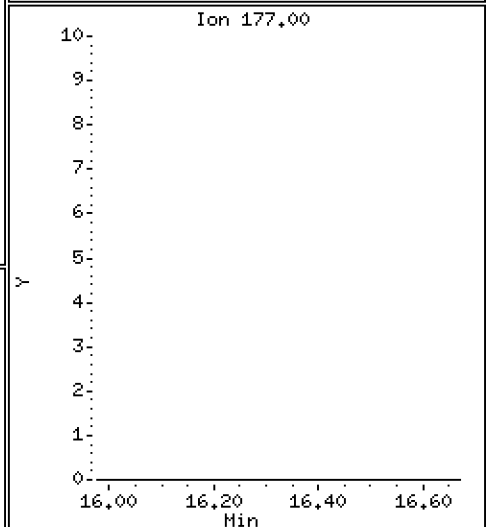
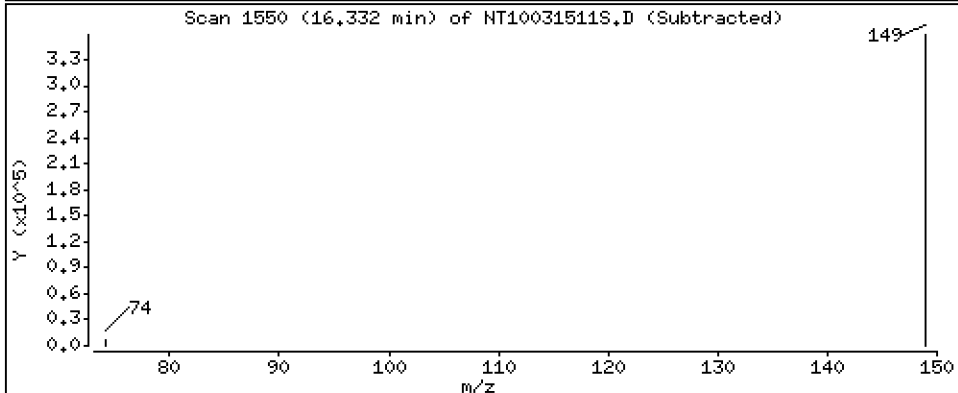
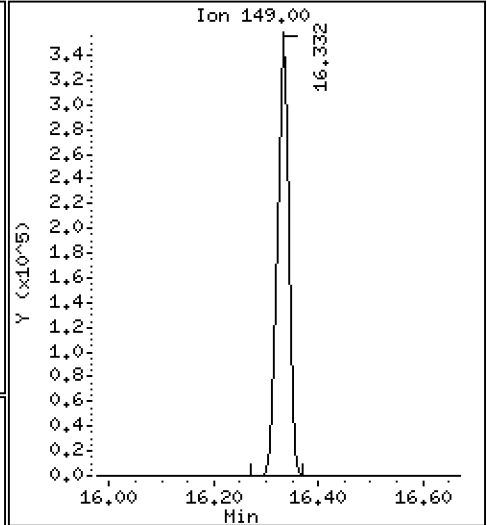
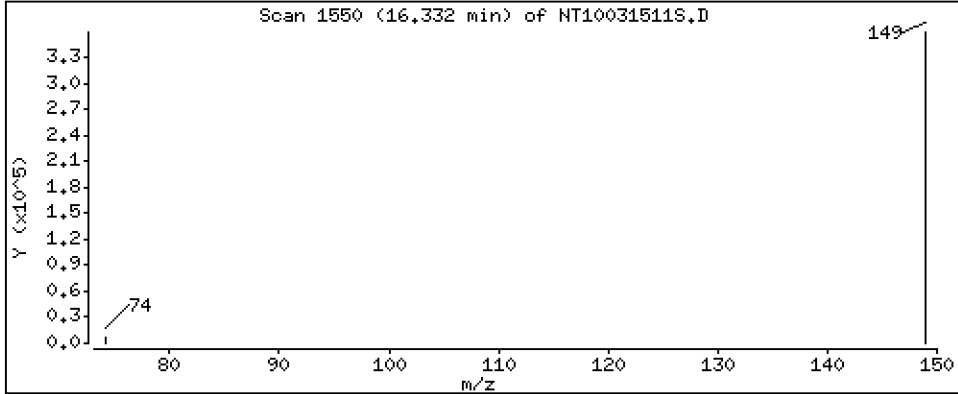
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 5.364 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

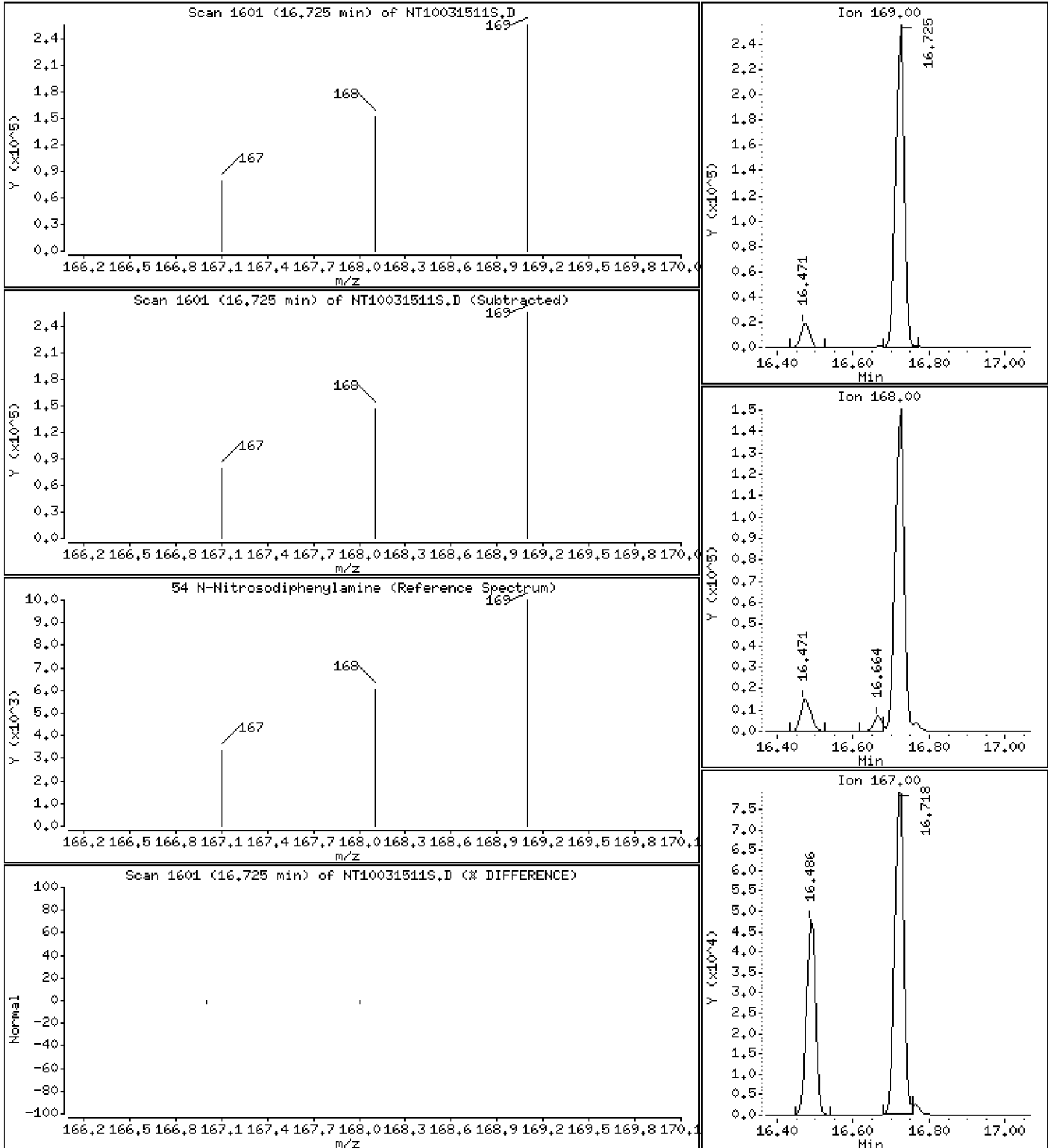
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 5.080 ug/L





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

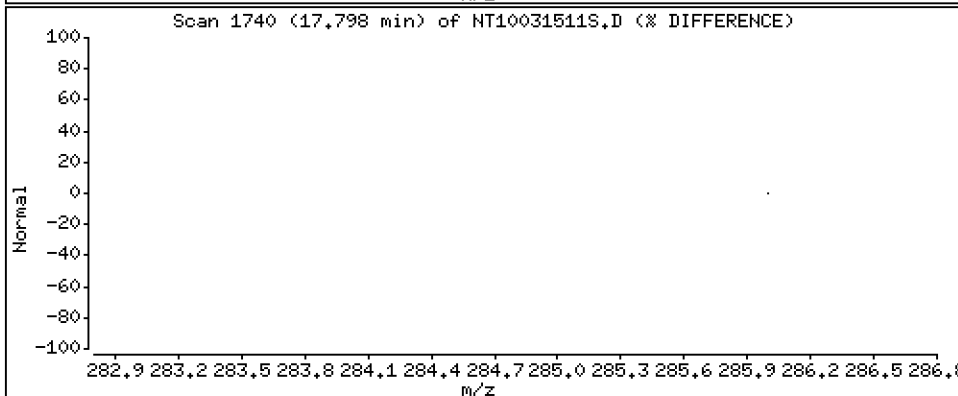
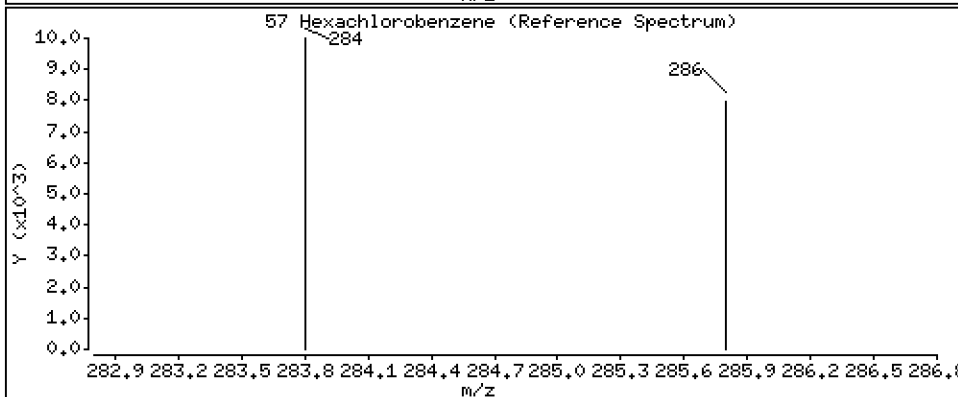
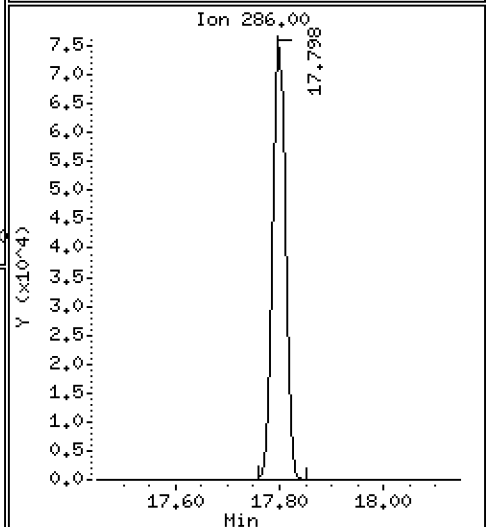
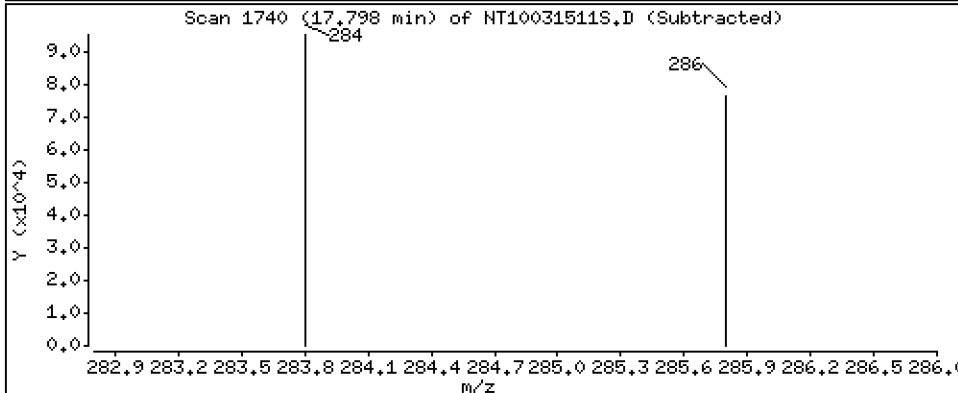
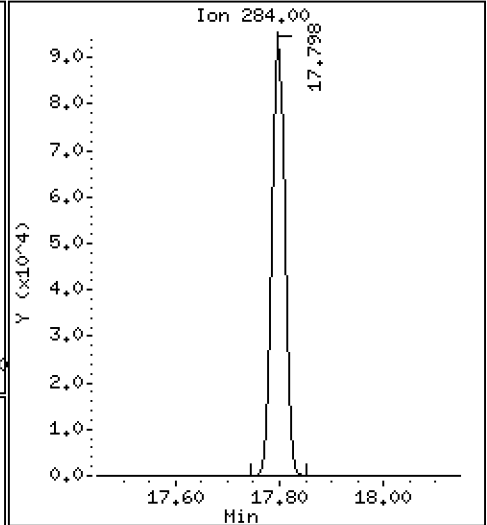
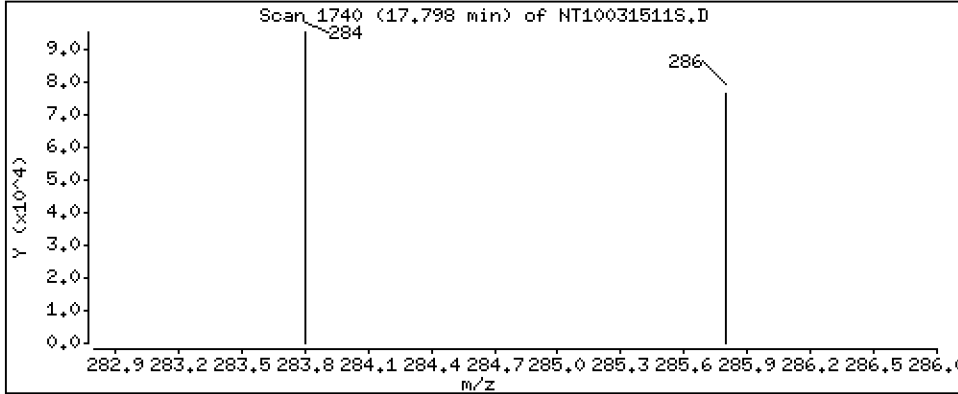
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,614 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

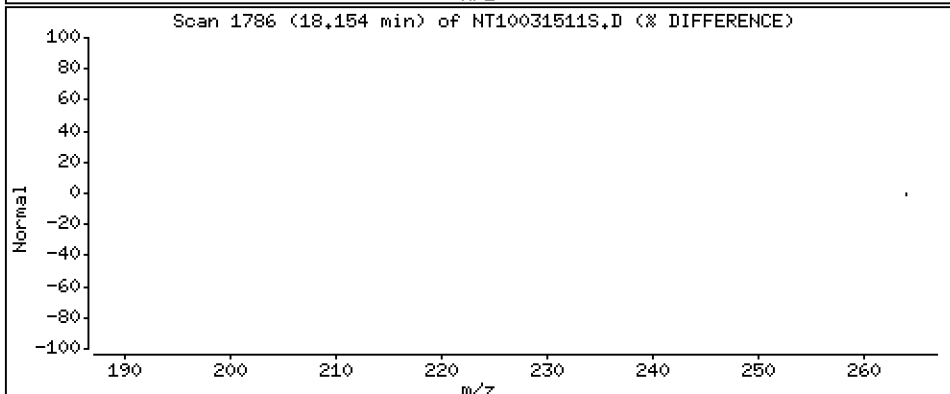
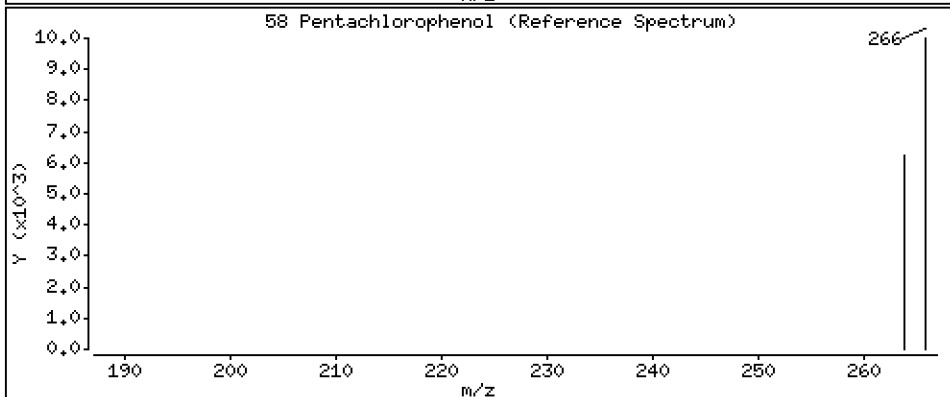
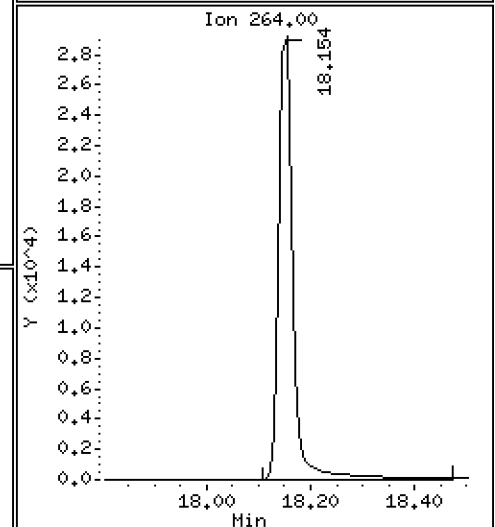
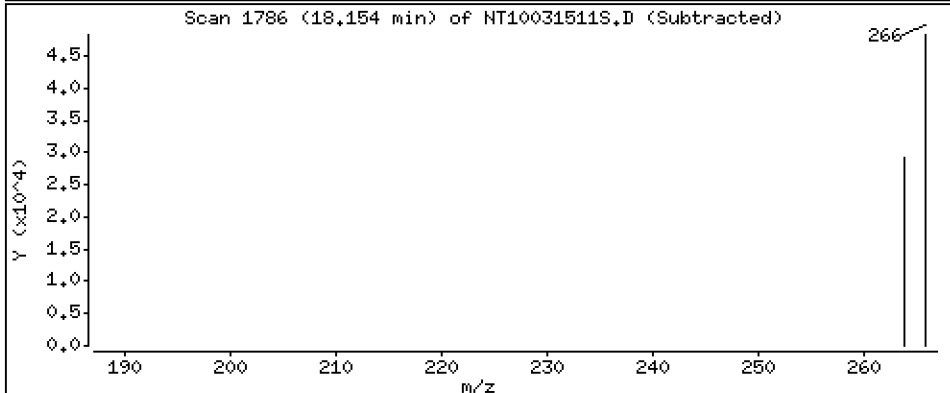
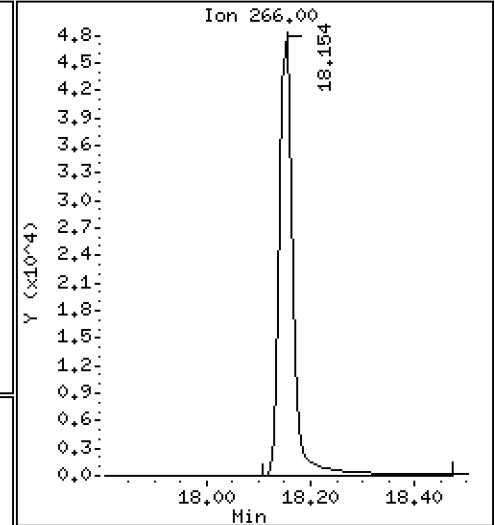
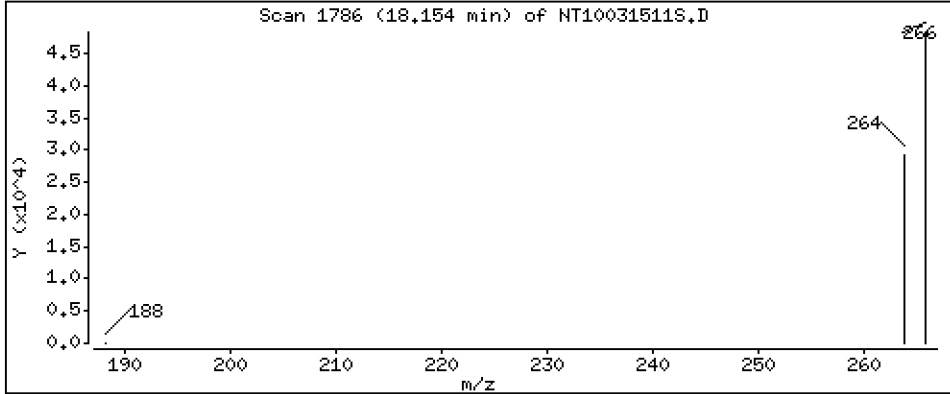
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 4,418 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

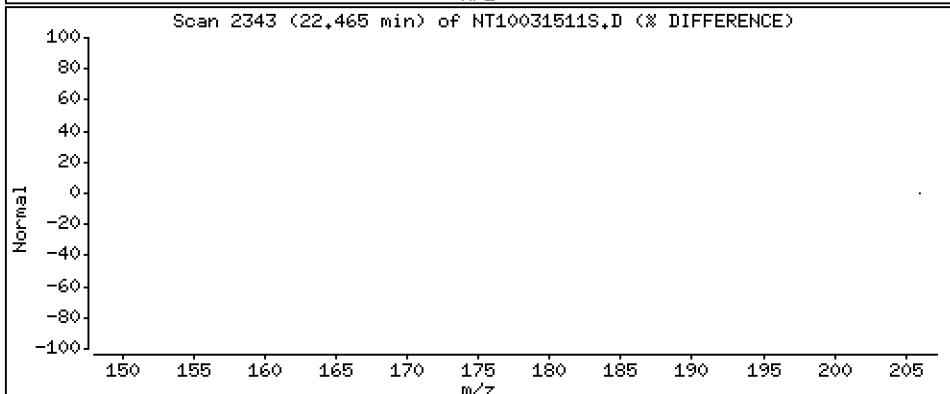
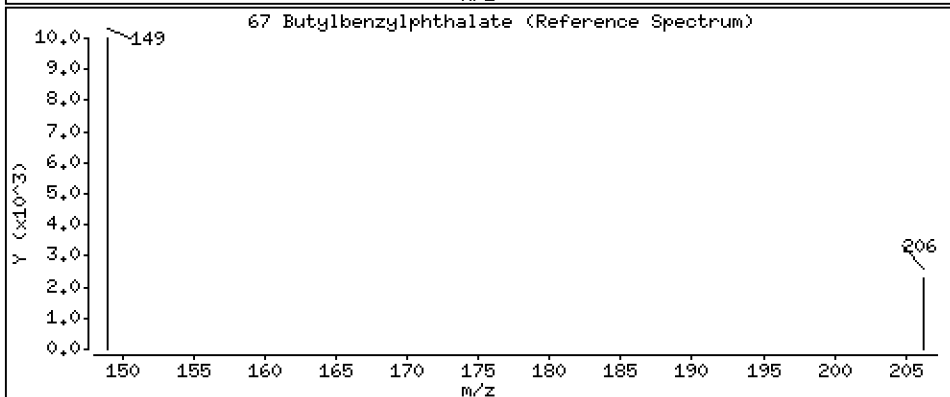
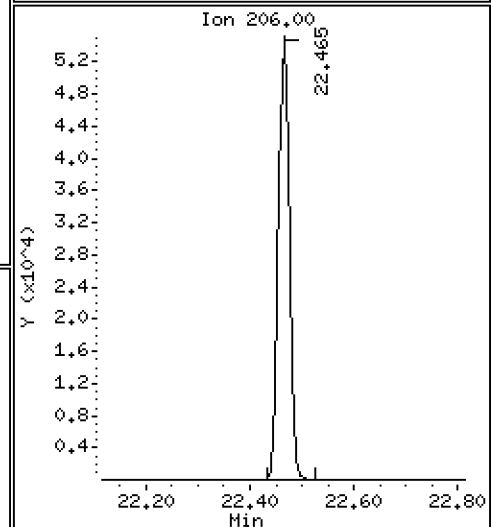
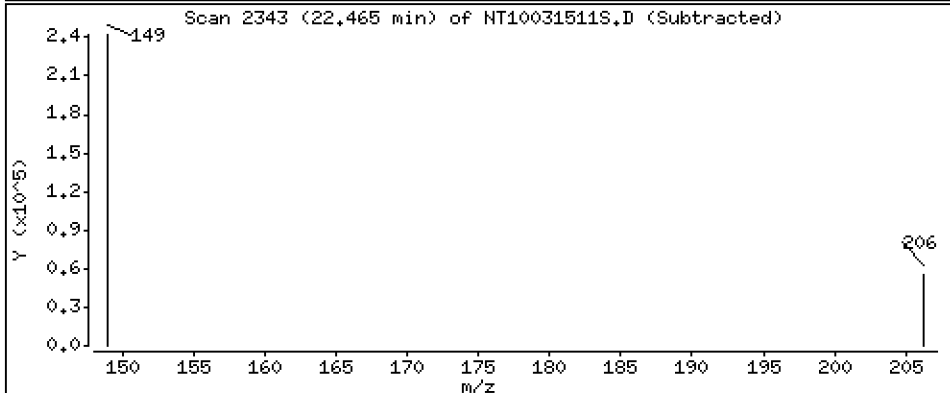
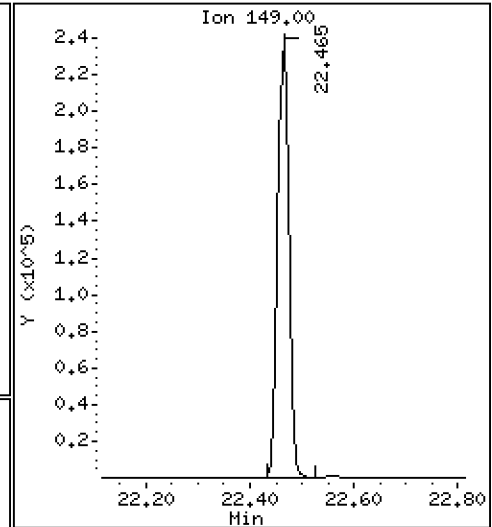
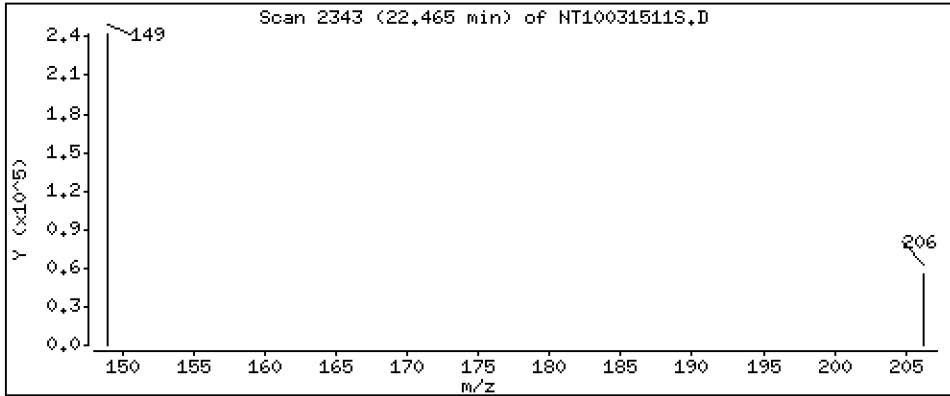
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,121 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

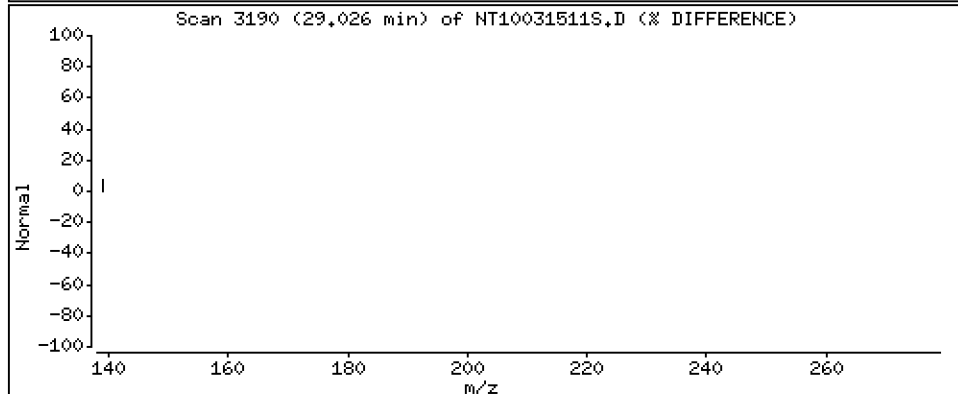
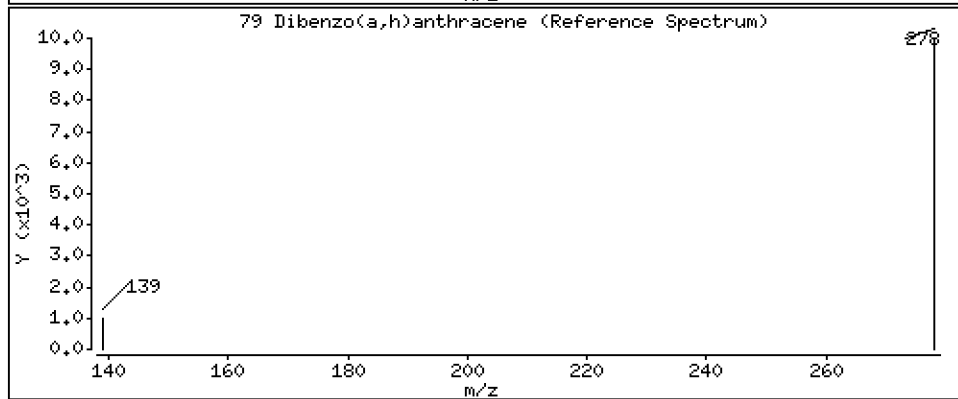
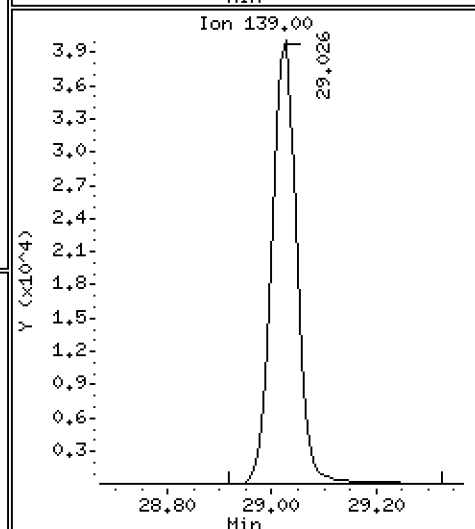
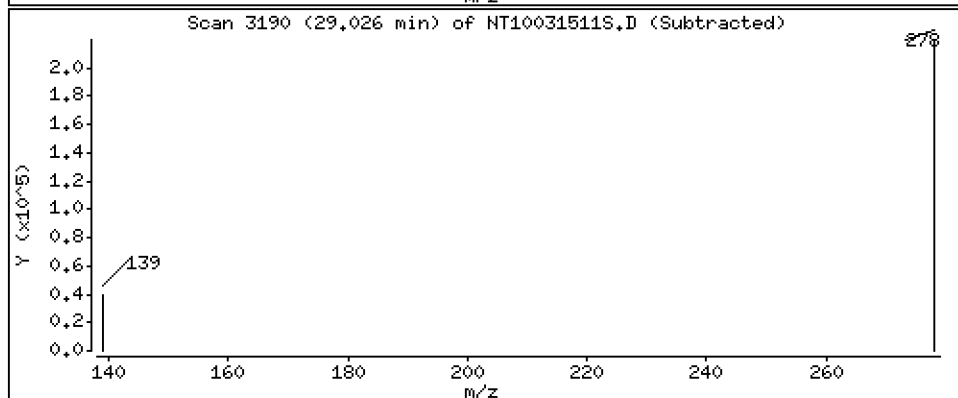
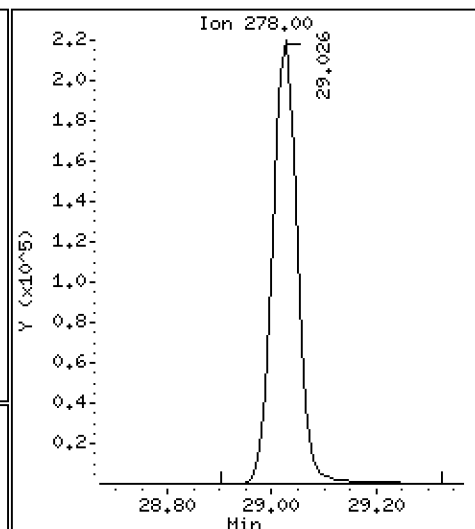
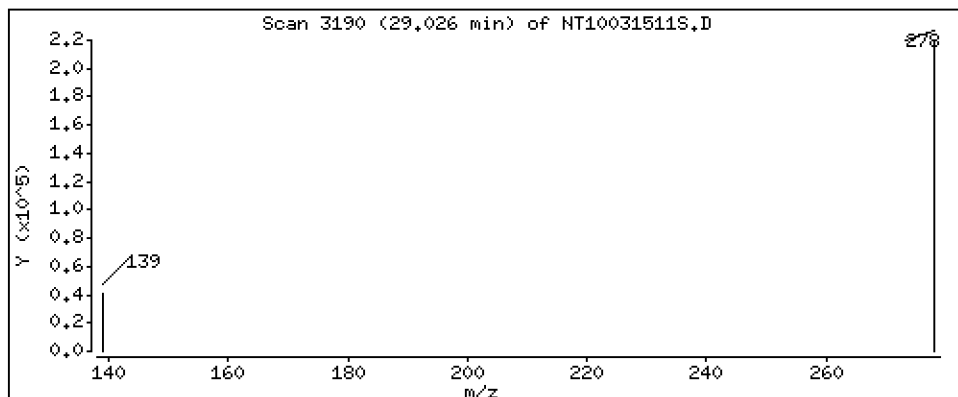
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,238 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

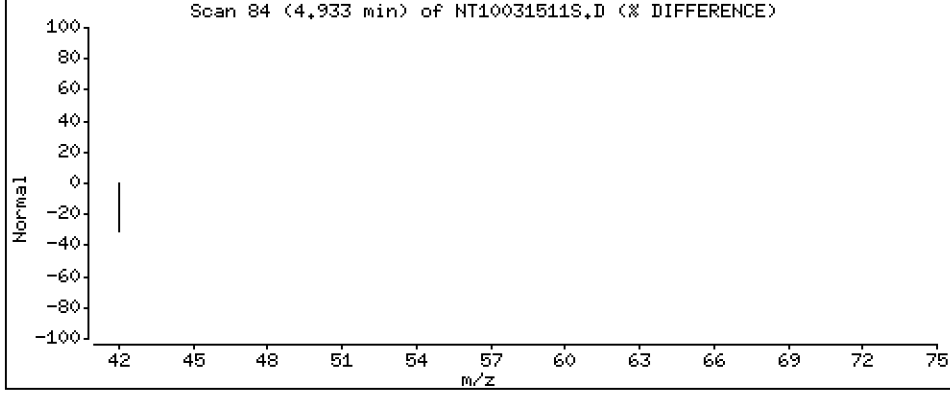
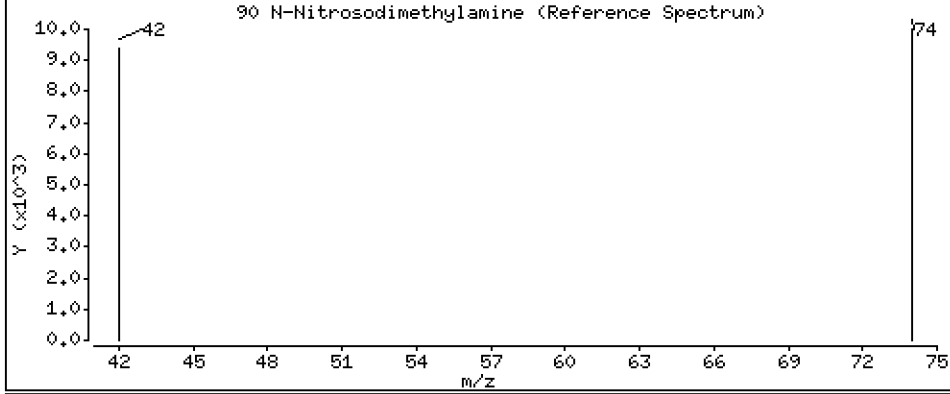
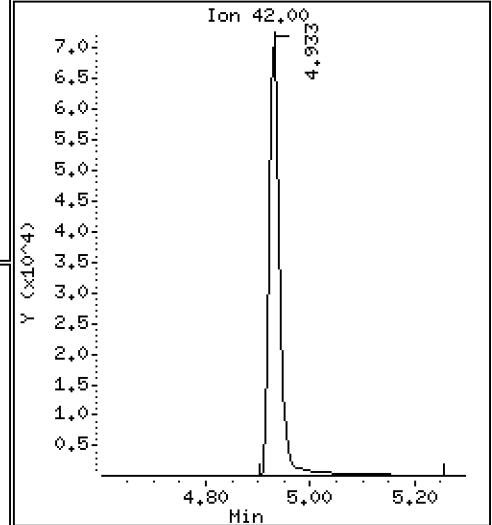
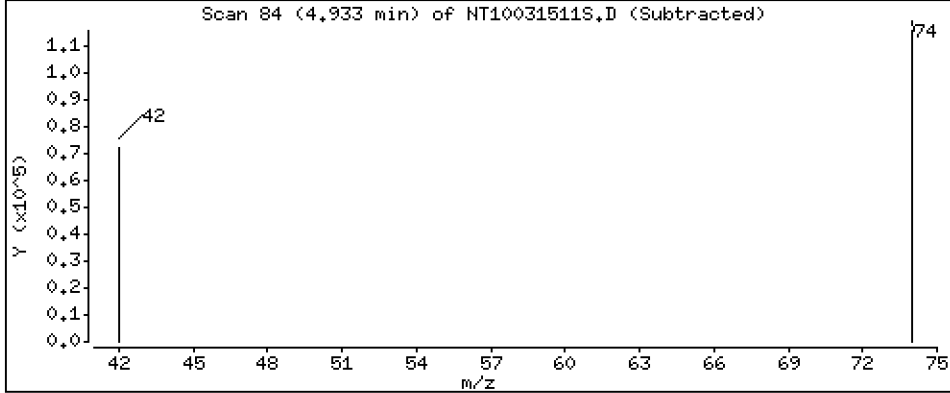
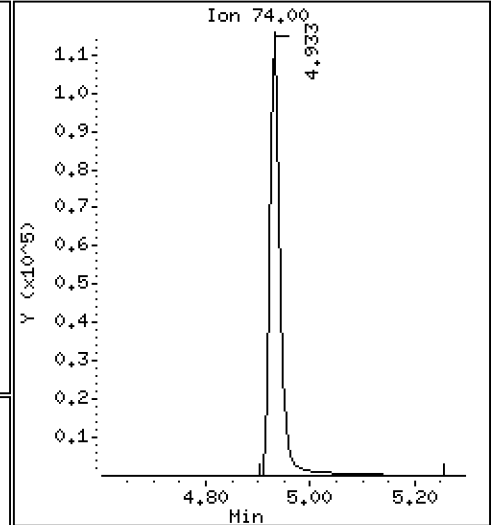
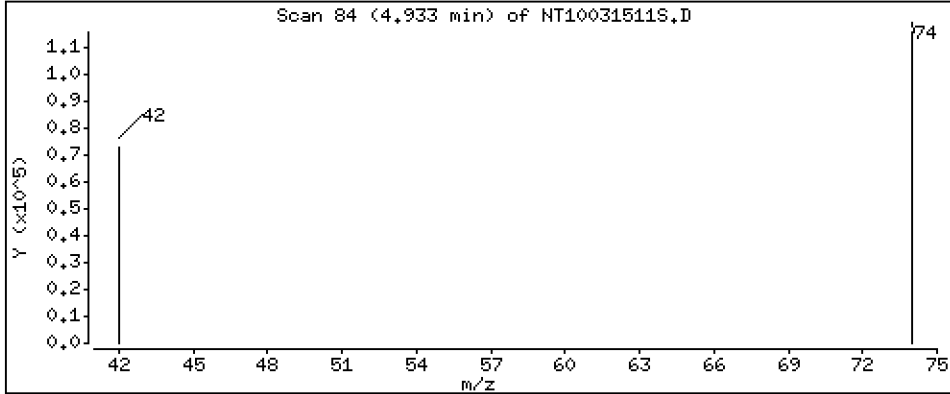
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 5.096 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D  
 Lab Smp Id: SLC0238-SCV1  
 Inj Date : 16-MAR-2023 02:16 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : SLC0238-SCV1  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |         |
|-------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|---------|
|                               |       |     |                        |        |         |          | ON-COLUMN      | FINAL   |
|                               | MASS  |     |                        |        |         |          | (ug/mL)        | ( ug/L) |
| \$ 1 2-Fluorophenol           | 112   |     | Compound Not Detected. |        |         |          |                |         |
| 3 Phenol                      | 94    |     | 8.664                  | 8.664  | (0.931) | 303581   | 4.37299        | 4.373   |
| 7 1,3-Dichlorobenzene         | 146   |     | 9.236                  | 9.236  | (0.992) | 301605   | 4.64290        | 4.643   |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.306                  | 9.298  | (1.000) | 166866   | 4.00000        |         |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.329                  | 9.329  | (1.002) | 303390   | 4.83813        | 4.838   |
| 11 Benzyl alcohol             | 79    |     | 9.562                  | 9.570  | (1.028) | 208505   | 5.18071        | 5.181   |
| 12 1,2-Dichlorobenzene        | 146   |     | 9.686                  | 9.686  | (1.041) | 288539   | 4.67875        | 4.679   |
| 13 2-Methylphenol             | 108   |     | 9.772                  | 9.772  | (1.050) | 201888   | 4.19698        | 4.197   |
| 15 4-Methylphenol             | 108   |     | 10.043                 | 10.036 | (1.079) | 223083   | 4.46301        | 4.463   |
| 16 N-Nitroso-di-n-propylamine | 70    |     | 10.121                 | 10.113 | (1.088) | 186707   | 5.28174        | 5.282   |
| 22 2,4-Dimethylphenol         | 107   |     | 11.086                 | 11.087 | (0.942) | 193654   | 3.66015        | 3.660   |
| 24 Benzoic acid               | 105   |     | 11.214                 | 11.189 | (0.952) | 200487   | 6.74612        | 6.746   |
| 26 1,2,4-Trichlorobenzene     | 180   |     | 11.690                 | 11.690 | (0.993) | 236605   | 4.44540        | 4.445   |
| * 27 Naphthalene-d8           | 136   |     | 11.775                 | 11.775 | (1.000) | 612104   | 4.00000        |         |
| 30 Hexachlorobutadiene        | 225   |     | 12.169                 | 12.169 | (1.033) | 150581   | 4.65339        | 4.653   |
| 39 Dimethylphthalate          | 163   |     | 14.877                 | 14.877 | (0.967) | 472341   | 4.94766        | 4.948   |
| * 42 Acenaphthene-d10         | 162   |     | 15.388                 | 15.380 | (1.000) | 302524   | 4.00000        |         |
| 50 Diethylphthalate           | 149   |     | 16.331                 | 16.324 | (1.061) | 530540   | 5.36440        | 5.364   |
| 54 N-Nitrosodiphenylamine     | 169   |     | 16.725                 | 16.717 | (0.908) | 377357   | 5.08034        | 5.080   |
| 57 Hexachlorobenzene          | 284   |     | 17.798                 | 17.798 | (0.966) | 153405   | 4.61353        | 4.614   |

| Compounds                 | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                           |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>( ug/L) |
| 58 Pentachlorophenol      | 266       | 18.154 | 18.154 | (0.985) | 83223    | 4.41780              | 4.418            |
| * 59 Phenanthrene-d10     | 188       | 18.425 | 18.417 | (1.000) | 553619   | 4.00000              |                  |
| \$ 66 Terphenyl-d14       | 244       | 21.543 | 21.543 | (0.918) | 117      | 0.00154              | 0.001543 (RM)    |
| 67 Butylbenzylphthalate   | 149       | 22.464 | 22.465 | (0.958) | 332887   | 5.12147              | 5.121            |
| * 69 Chrysene-d12         | 240       | 23.455 | 23.455 | (1.000) | 465428   | 4.00000              |                  |
| * 77 Perylene-d12         | 264       | 26.188 | 26.188 | (1.000) | 532593   | 4.00000              |                  |
| 79 Dibenzo(a,h)anthracene | 278       | 29.026 | 29.019 | (1.108) | 722983   | 4.23762              | 4.238            |
| 90 N-Nitrosodimethylamine | 74        | 4.933  | 4.948  | (0.530) | 163555   | 5.09625              | 5.096            |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT10031511S.D  
 Lab Smp Id: SLC0238-SCV1  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Misc Info:

Calibration Date: 15-MAR-2023  
 Calibration Time: 23:06  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|---------------------|----------|------------|---------|--------|--------|
|                     |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze | 188081   | 94041      | 376162  | 166866 | -11.28 |
| 27 Naphthalene-d8   | 674549   | 337275     | 1349098 | 612104 | -9.26  |
| 42 Acenaphthene-d10 | 328275   | 164138     | 656550  | 302524 | -7.84  |
| 59 Phenanthrene-d10 | 597140   | 298570     | 1194280 | 553619 | -7.29  |
| 69 Chrysene-d12     | 466503   | 233252     | 933006  | 465428 | -0.23  |
| 77 Perylene-d12     | 518203   | 259102     | 1036406 | 532593 | 2.78   |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.30     | 8.80     | 9.80  | 9.31   | 0.08  |
| 27 Naphthalene-d8   | 11.77    | 11.27    | 12.27 | 11.78  | 0.01  |
| 42 Acenaphthene-d10 | 15.39    | 14.89    | 15.89 | 15.39  | 0.01  |
| 59 Phenanthrene-d10 | 18.42    | 17.92    | 18.92 | 18.43  | 0.00  |
| 69 Chrysene-d12     | 23.45    | 22.95    | 23.95 | 23.46  | 0.00  |
| 77 Perylene-d12     | 26.19    | 25.69    | 26.69 | 26.19  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



REVIEW SUMMARY FOR FILE - NT10031511S.D

Lab ID: SLC0238-SCV1

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

16-MAR-2023 02:16

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV   | RRT    | DELTA | COMPOUND     |
|-------|-------|--------|-------|--------------|
| 0.952 | 0.000 | 0.9524 |       | Benzoic acid |

RRT check based on Ccal File: 20230315.b/NT10031510S.D

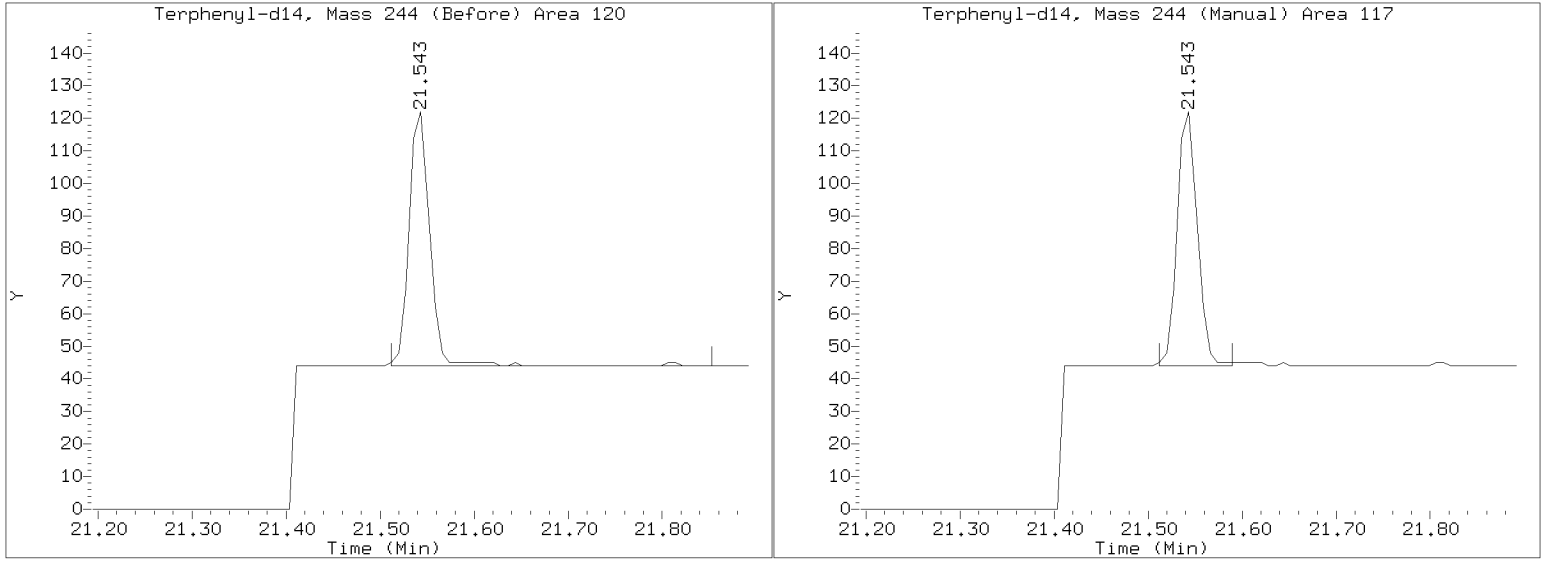
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

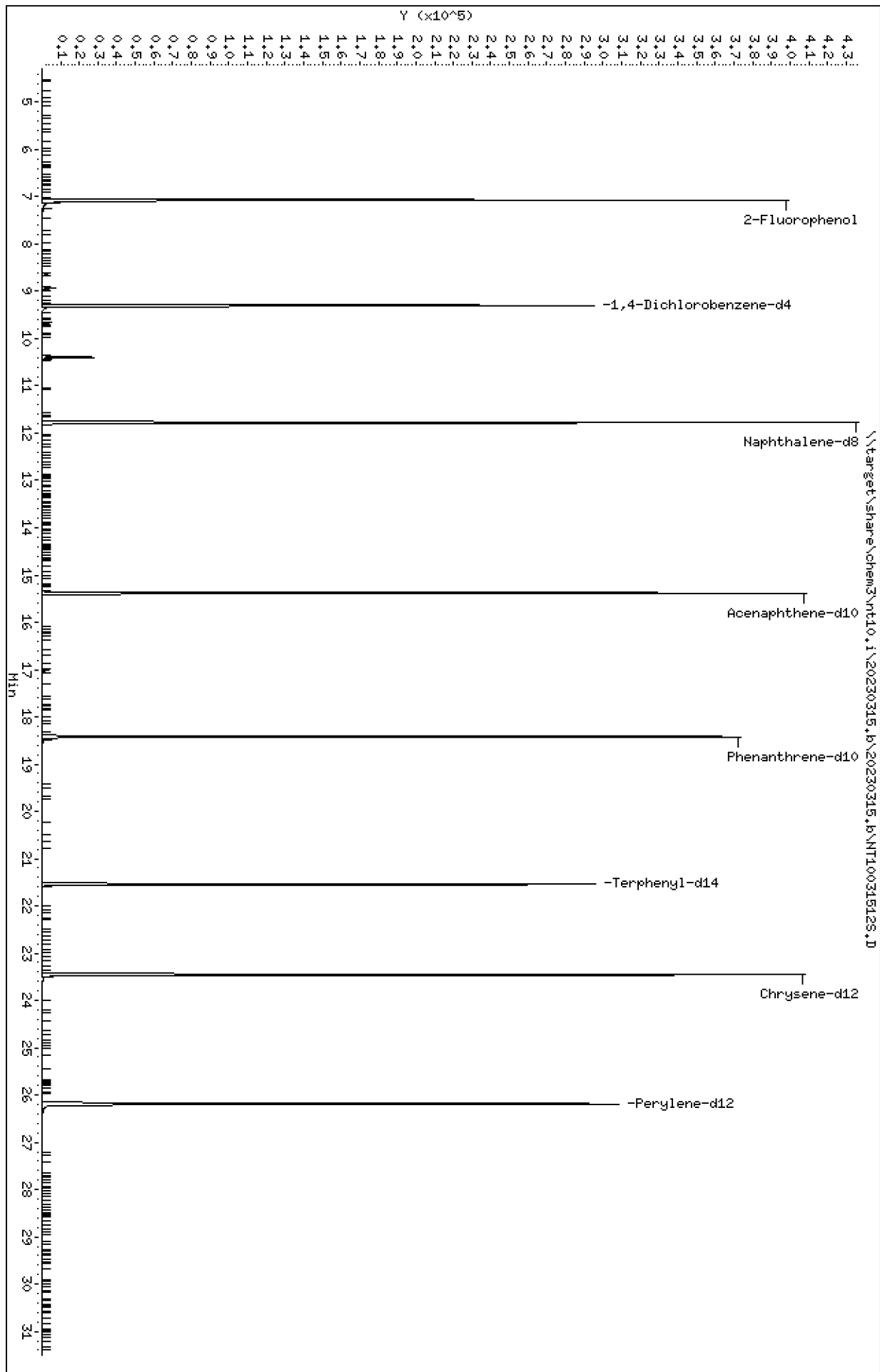
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031511S.D  
Injection Date: 16-MAR-2023 02:16  
Lab ID: SLC0238-SCV1 Client ID:  
Report Date: 03/16/2023 14:49



Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT10031512S.D  
Date : 16-MAR-2023 02:54  
Client ID:  
Sample Info: SLC0238-ICB1  
Volume Injected (uL): 1.0  
Column phase: ZB-5msi

Instrument: nt10.1  
Operator: JGR  
Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031512S.D  
 Lab Smp Id: SLC0238-ICB1  
 Inj Date : 16-MAR-2023 02:54 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : SLC0238-ICB1  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 12  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

Concentration Formula:  $Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable$

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE               | CONCENTRATIONS |          |
|-------------------------------|-------|-----|--------|--------|---------|------------------------|----------------|----------|
|                               |       |     |        |        |         |                        | ON-COLUMN      | FINAL    |
|                               | MASS  |     |        |        |         |                        | (ug/mL)        | ( ug/L)  |
| \$ 1 2-Fluorophenol           | 112   |     | 7.072  | 7.073  | (0.760) | 392056                 | 6.82342        | 6.823(R) |
| 3 Phenol                      | 94    |     |        |        |         | Compound Not Detected. |                |          |
| 7 1,3-Dichlorobenzene         | 146   |     |        |        |         | Compound Not Detected. |                |          |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.306  | 9.298  | (1.000) | 189475                 | 4.00000        |          |
| 9 1,4-Dichlorobenzene         | 146   |     |        |        |         | Compound Not Detected. |                |          |
| 11 Benzyl alcohol             | 79    |     |        |        |         | Compound Not Detected. |                |          |
| 12 1,2-Dichlorobenzene        | 146   |     |        |        |         | Compound Not Detected. |                |          |
| 13 2-Methylphenol             | 108   |     |        |        |         | Compound Not Detected. |                |          |
| 15 4-Methylphenol             | 108   |     |        |        |         | Compound Not Detected. |                |          |
| 16 N-Nitroso-di-n-propylamine | 70    |     |        |        |         | Compound Not Detected. |                |          |
| 22 2,4-Dimethylphenol         | 107   |     |        |        |         | Compound Not Detected. |                |          |
| 24 Benzoic acid               | 105   |     |        |        |         | Compound Not Detected. |                |          |
| 26 1,2,4-Trichlorobenzene     | 180   |     |        |        |         | Compound Not Detected. |                |          |
| * 27 Naphthalene-d8           | 136   |     | 11.774 | 11.775 | (1.000) | 676186                 | 4.00000        |          |
| 30 Hexachlorobutadiene        | 225   |     |        |        |         | Compound Not Detected. |                |          |
| 39 Dimethylphthalate          | 163   |     |        |        |         | Compound Not Detected. |                |          |
| * 42 Acenaphthene-d10         | 162   |     | 15.379 | 15.380 | (1.000) | 328650                 | 4.00000        |          |
| 50 Diethylphthalate           | 149   |     |        |        |         | Compound Not Detected. |                |          |
| 54 N-Nitrosodiphenylamine     | 169   |     |        |        |         | Compound Not Detected. |                |          |
| 57 Hexachlorobenzene          | 284   |     |        |        |         | Compound Not Detected. |                |          |

| Compounds                 | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE               | CONCENTRATIONS       |                  |
|---------------------------|-----------|--------|--------|---------|------------------------|----------------------|------------------|
|                           |           |        |        |         |                        | ON-COLUMN<br>(ug/mL) | FINAL<br>( ug/L) |
| 58 Pentachlorophenol      | 266       |        |        |         | Compound Not Detected. |                      |                  |
| * 59 Phenanthrene-d10     | 188       | 18.424 | 18.417 | (1.000) | 617605                 | 4.00000              |                  |
| \$ 66 Terphenyl-d14       | 244       | 21.542 | 21.543 | (0.918) | 340833                 | 4.41767              | 4.418 (R)        |
| 67 Butylbenzylphthalate   | 149       |        |        |         | Compound Not Detected. |                      |                  |
| * 69 Chrysene-d12         | 240       | 23.454 | 23.455 | (1.000) | 473513                 | 4.00000              |                  |
| * 77 Perylene-d12         | 264       | 26.187 | 26.188 | (1.000) | 534734                 | 4.00000              |                  |
| 79 Dibenzo(a,h)anthracene | 278       |        |        |         | Compound Not Detected. |                      |                  |
| 90 N-Nitrosodimethylamine | 74        |        |        |         | Compound Not Detected. |                      |                  |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT10031512S.D  
 Lab Smp Id: SLC0238-ICB1  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Misc Info:

Calibration Date: 15-MAR-2023  
 Calibration Time: 23:06  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 188081   | 94041      | 376162  | 189475 | 0.74  |
| 27 Naphthalene-d8   | 674549   | 337275     | 1349098 | 676186 | 0.24  |
| 42 Acenaphthene-d10 | 328275   | 164138     | 656550  | 328650 | 0.11  |
| 59 Phenanthrene-d10 | 597140   | 298570     | 1194280 | 617605 | 3.43  |
| 69 Chrysene-d12     | 466503   | 233252     | 933006  | 473513 | 1.50  |
| 77 Perylene-d12     | 518203   | 259102     | 1036406 | 534734 | 3.19  |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.30     | 8.80     | 9.80  | 9.31   | 0.08  |
| 27 Naphthalene-d8   | 11.77    | 11.27    | 12.27 | 11.77  | -0.00 |
| 42 Acenaphthene-d10 | 15.39    | 14.89    | 15.89 | 15.38  | -0.05 |
| 59 Phenanthrene-d10 | 18.42    | 17.92    | 18.92 | 18.42  | -0.00 |
| 69 Chrysene-d12     | 23.45    | 22.95    | 23.95 | 23.45  | -0.00 |
| 77 Perylene-d12     | 26.19    | 25.69    | 26.69 | 26.19  | -0.00 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT10031512S.D

Lab ID: SLC0238-ICB1

nt10.i, 20230315.b\20230315.b\SIMABN2.m, 16-MAR-2023 02:54

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

---

NONE

RRT check based on Ccal File: 20230315.b/NT10031510S.D

On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*



**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 8270E-SIM**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GC00049

**Laboratory ID:** SLC0238-SCV1

**Sequence:** SLC0238

**Sequence Name:** SCV 5.0

**Standard ID:** K010066

| ANALYTE                | EXPECTED<br>(ug/mL) | FOUND<br>(ug/mL) | % DRIFT | QC LIMIT |
|------------------------|---------------------|------------------|---------|----------|
| 1,4-Dichlorobenzene    | 5.0000              | 4.8              | -3.2    | 20.00    |
| 1,2-Dichlorobenzene    | 5.0000              | 4.7              | -6.4    | 20.00    |
| Benzyl Alcohol         | 5.0000              | 5.2              | 3.6     | 20.00    |
| Benzoic acid           | 10.000              | 6.7              | -32.5 * | 20.00    |
| 2,4-Dimethylphenol     | 5.0000              | 3.7              | -26.8 * | 20.00    |
| 1,2,4-Trichlorobenzene | 5.0000              | 4.4              | -11.1   | 20.00    |
| N-Nitrosodiphenylamine | 5.0000              | 5.1              | 1.6     | 20.00    |
| Pentachlorophenol      | 5.0000              | 4.4              | -11.6   | 20.00    |
| 2-Fluorophenol         | 7.5000              | 0.00             |         |          |
| p-Terphenyl-d14        | 5.0000              | 0.00154          | -100    |          |

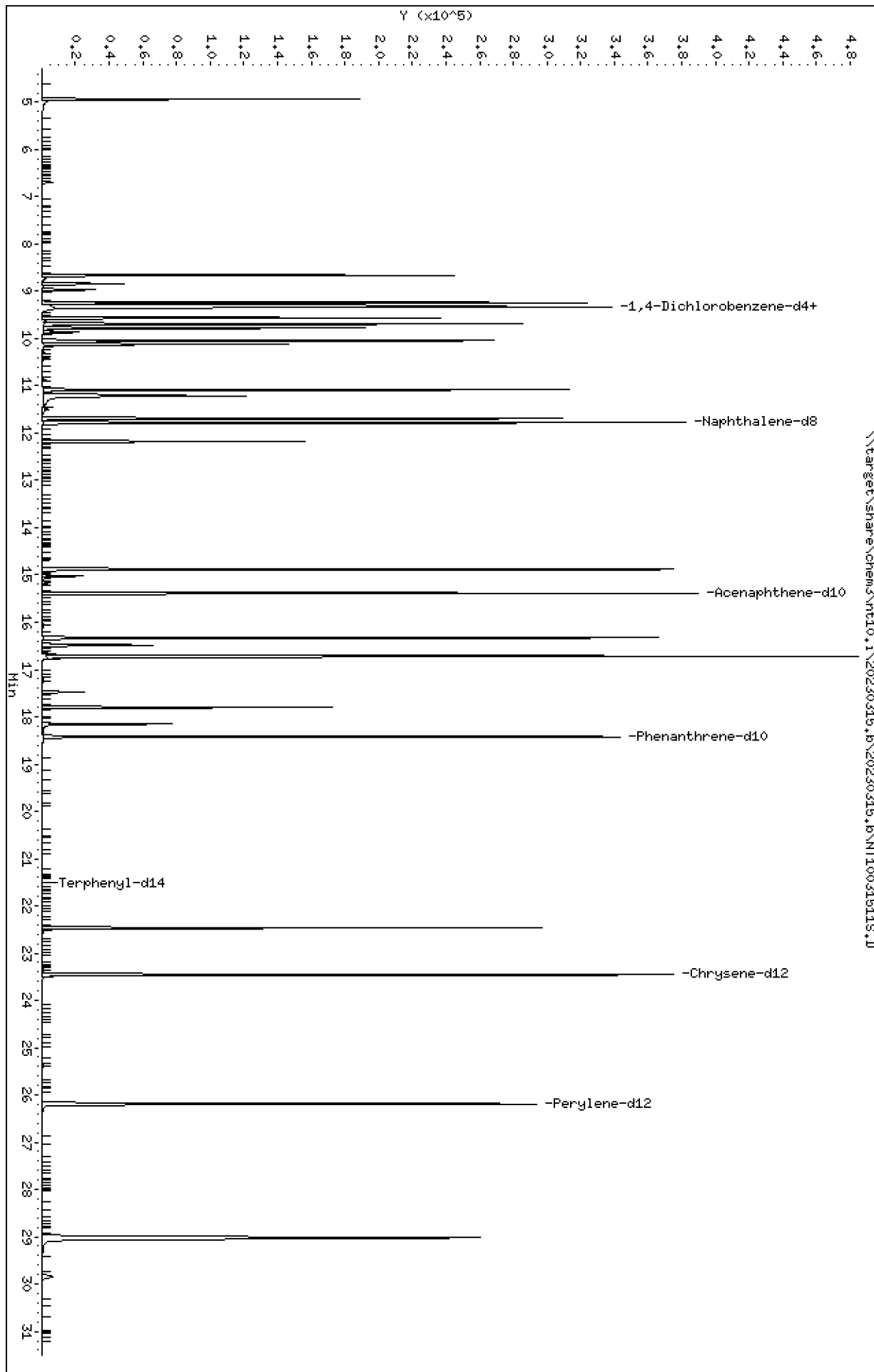
\* Indicates values outside of QC limits



Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT100315115.D  
Date: 16-MAR-2023 02:16  
Client ID:  
Sample Info: SLC0238-SCV1  
Volume Injected (uL): 1.0  
Column phase: ZB-5msi

Instrument: nt10.1  
Operator: JGR  
Column diameter: 0.25

\\target\share\chem3\nt10.1\20230315.1\20230315.1\NT100315115.D



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

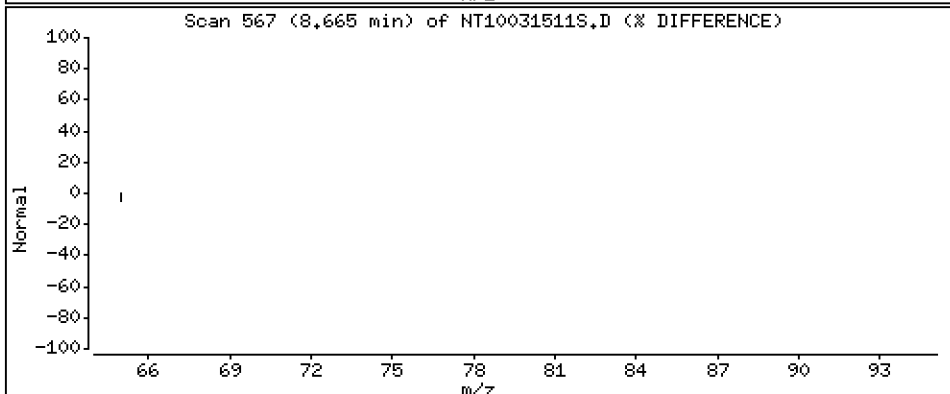
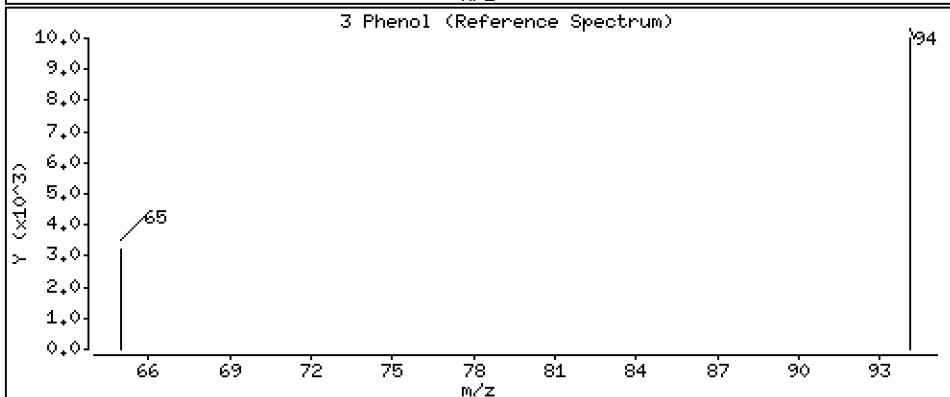
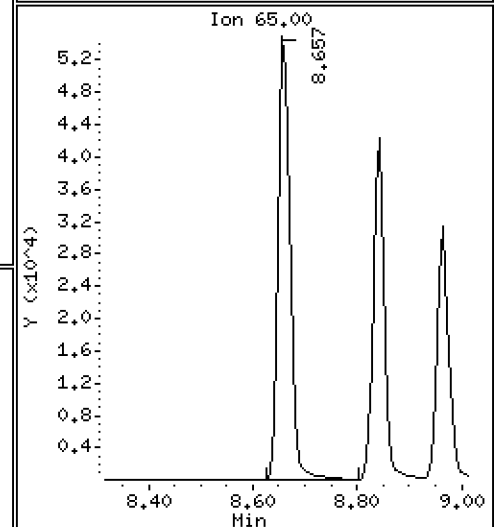
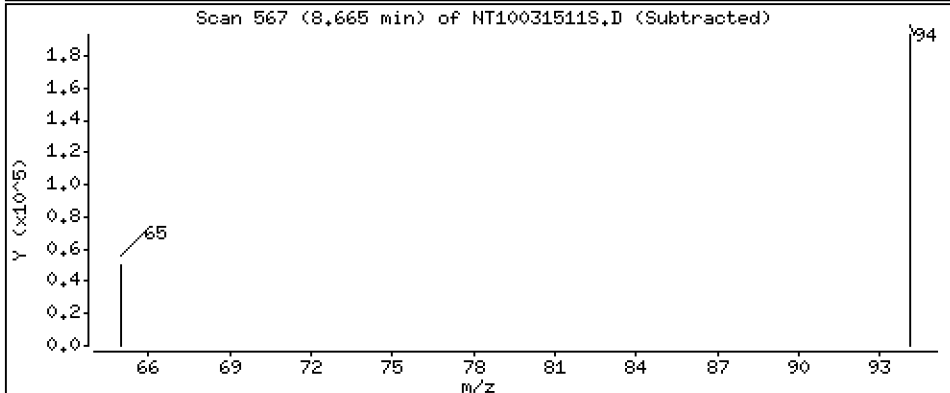
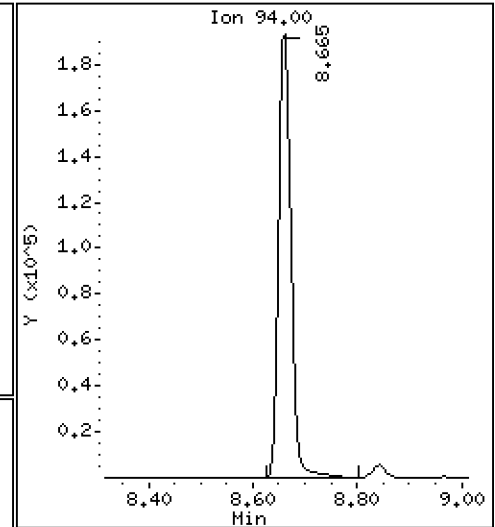
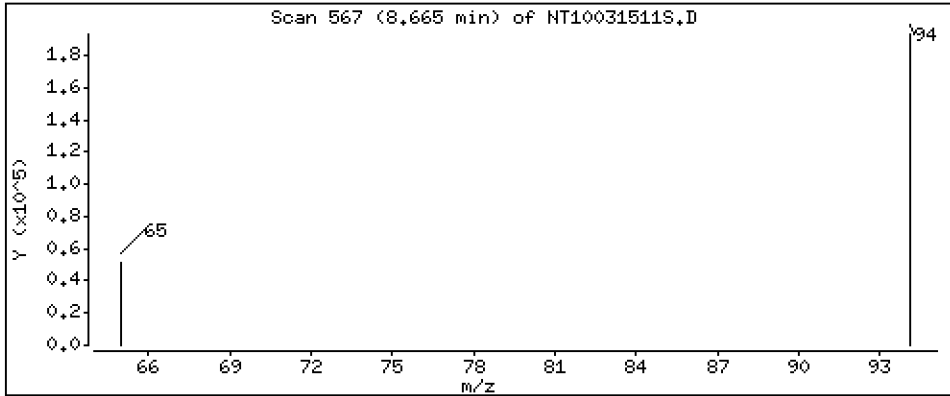
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 4.373 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

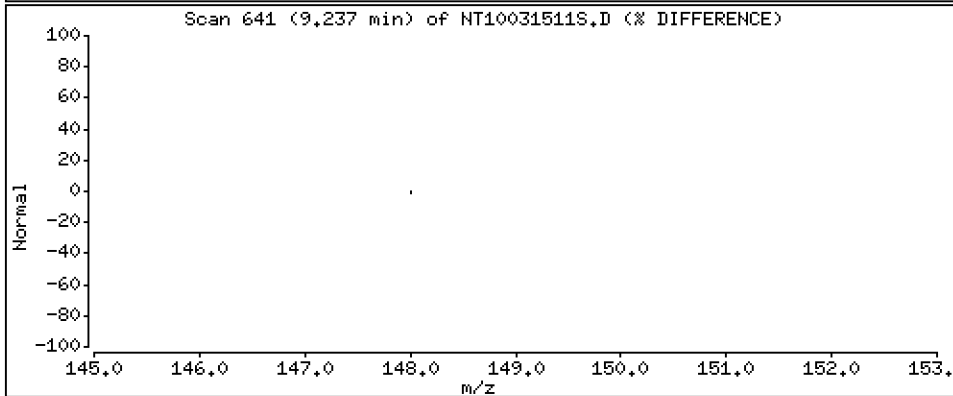
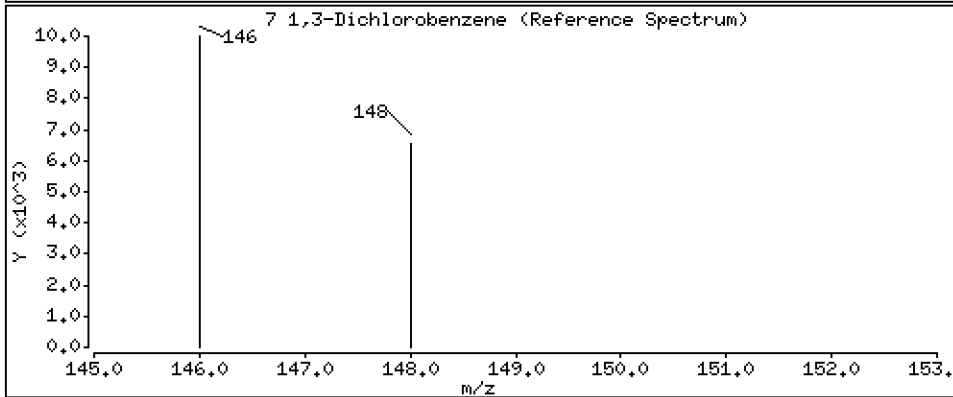
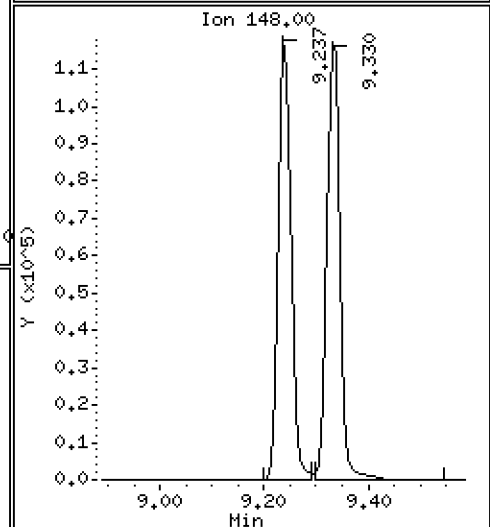
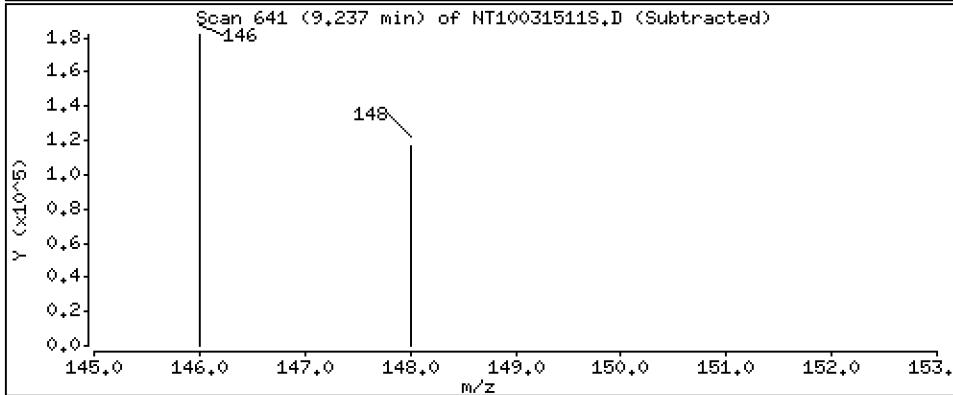
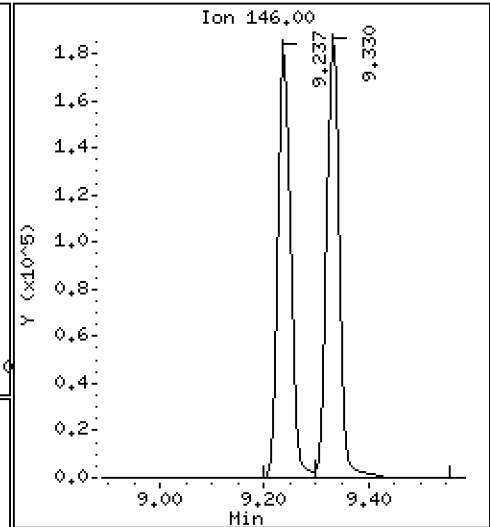
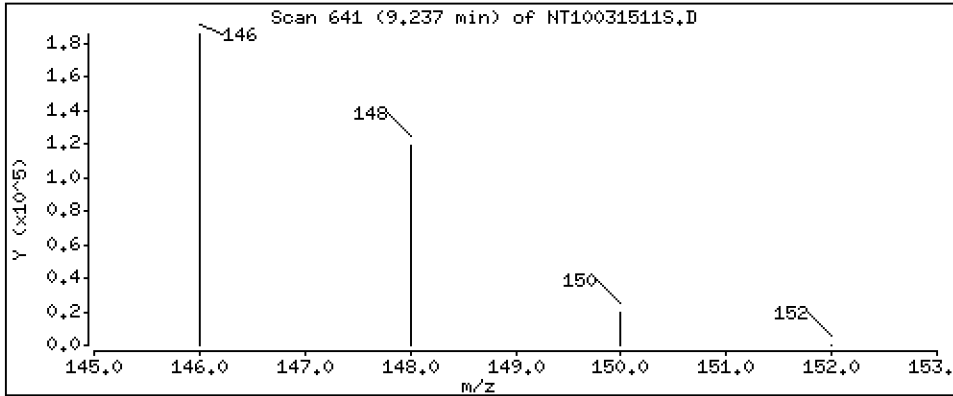
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 4.643 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

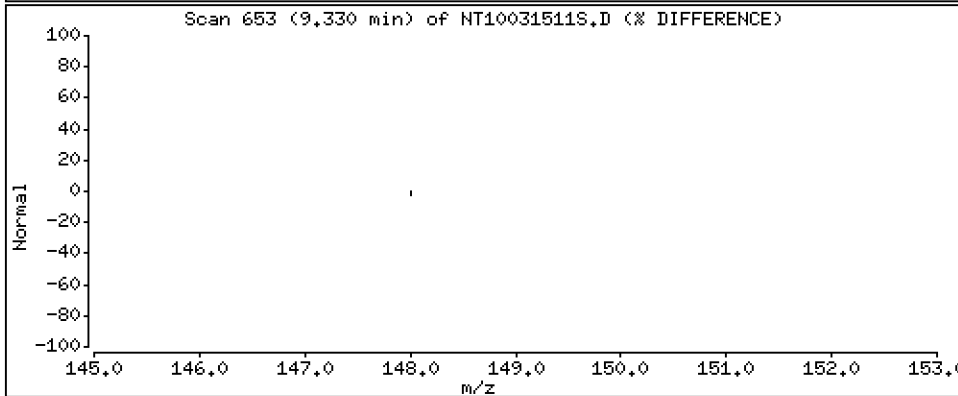
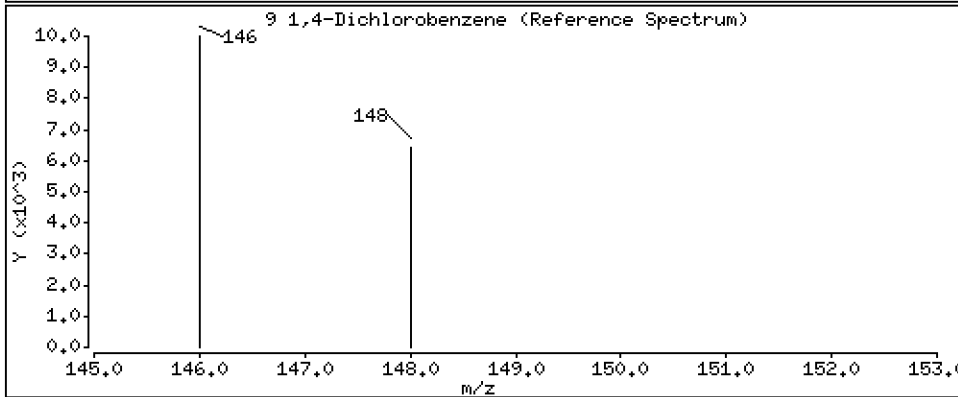
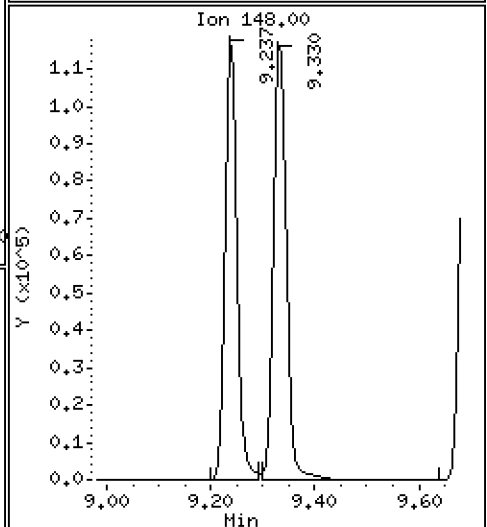
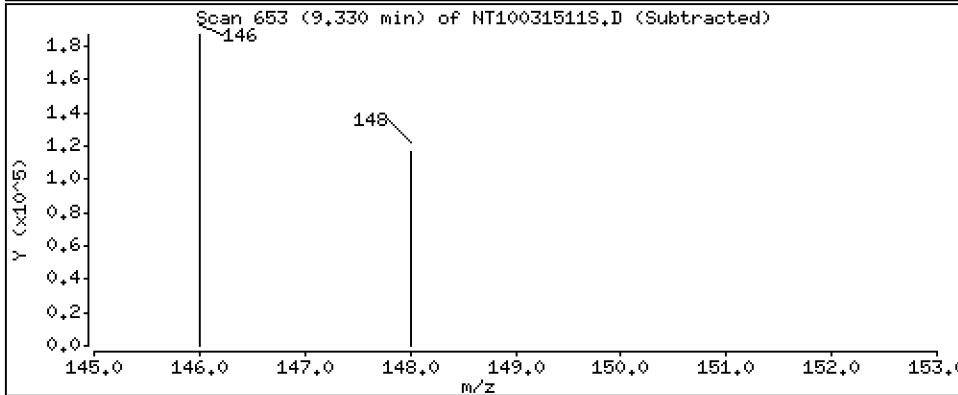
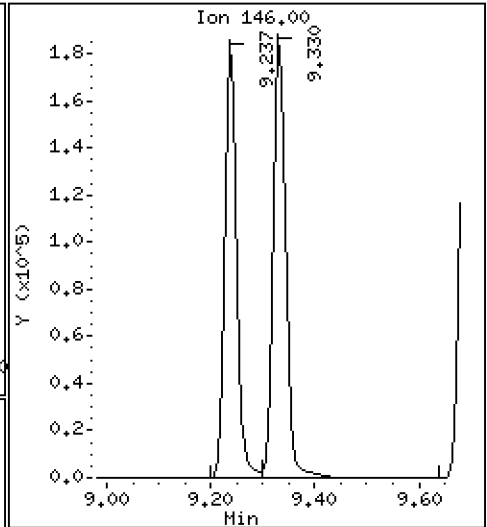
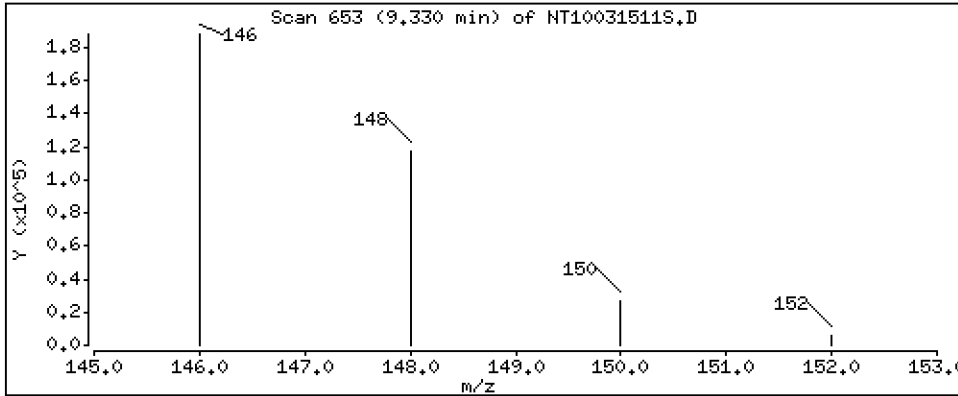
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 4.838 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

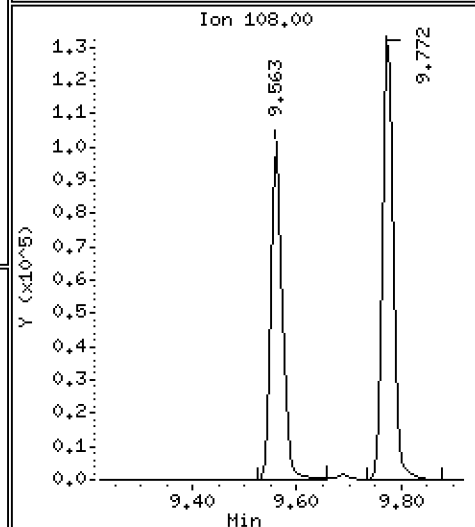
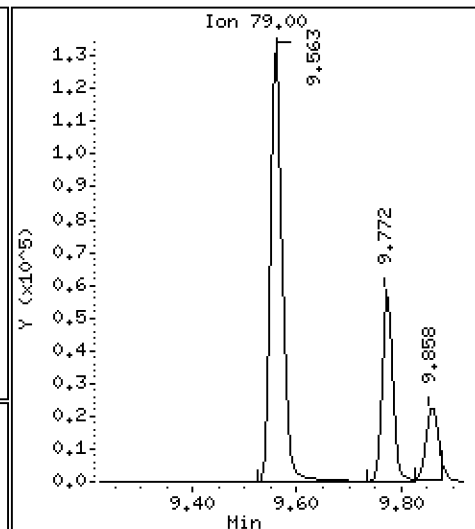
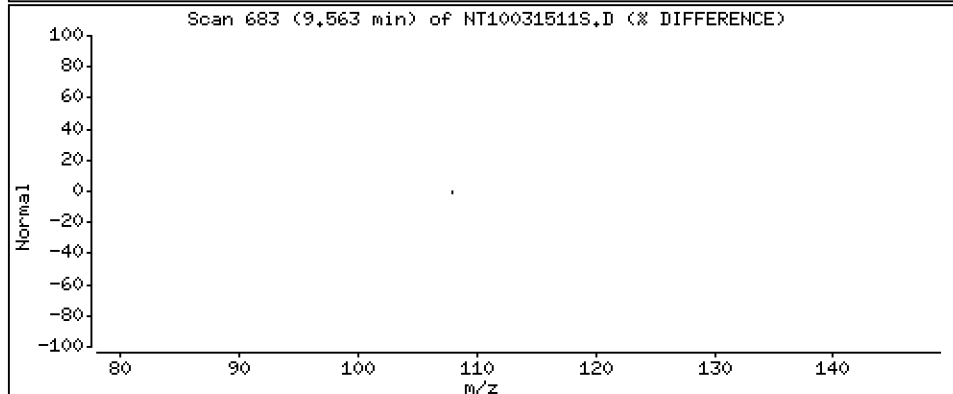
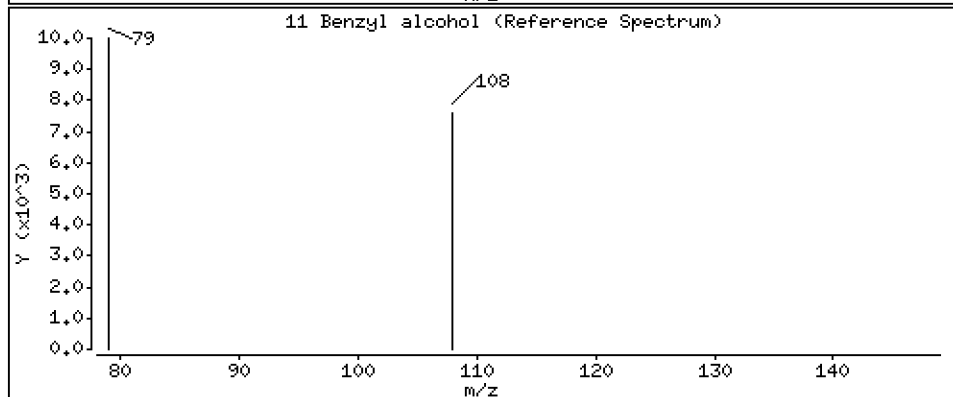
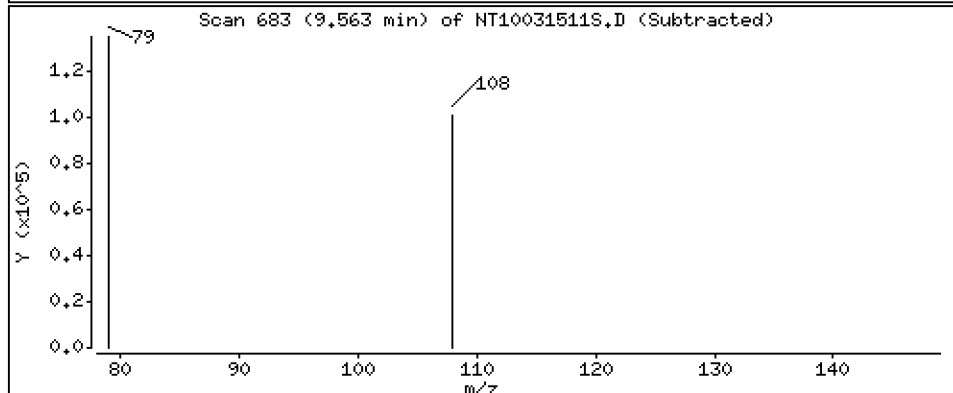
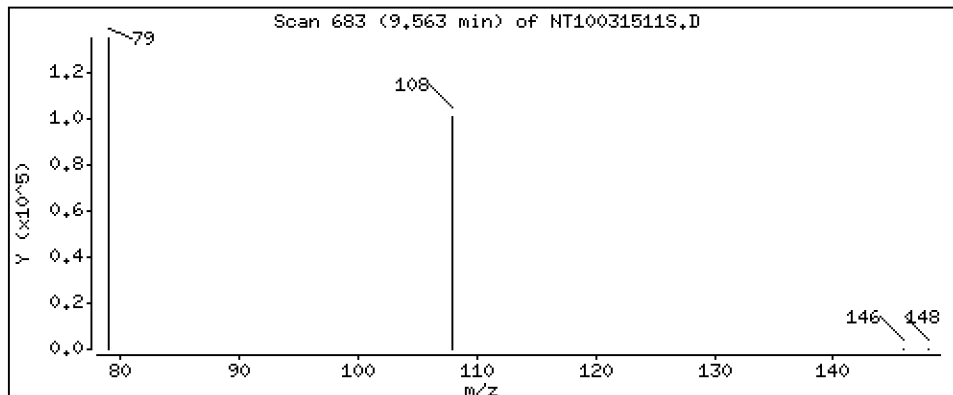
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 5.181 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

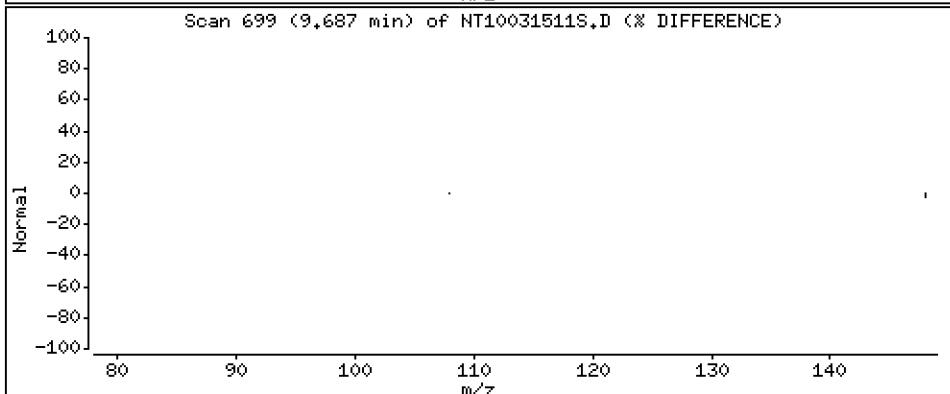
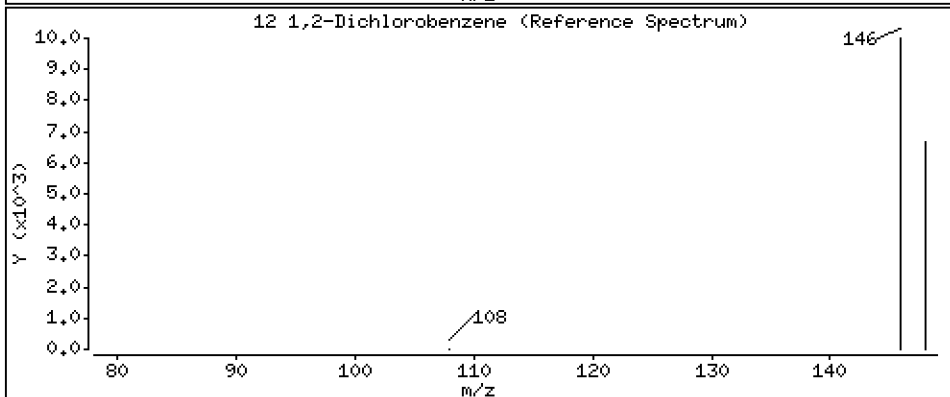
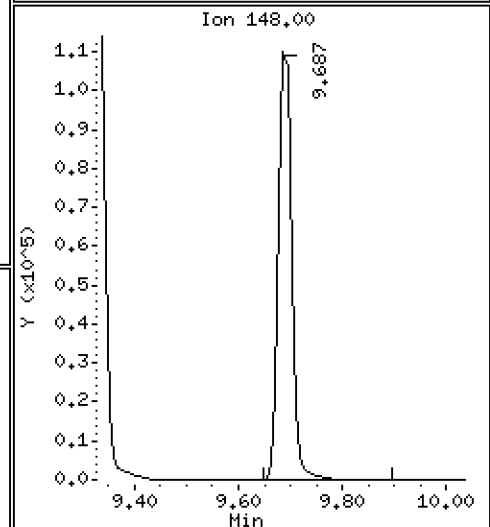
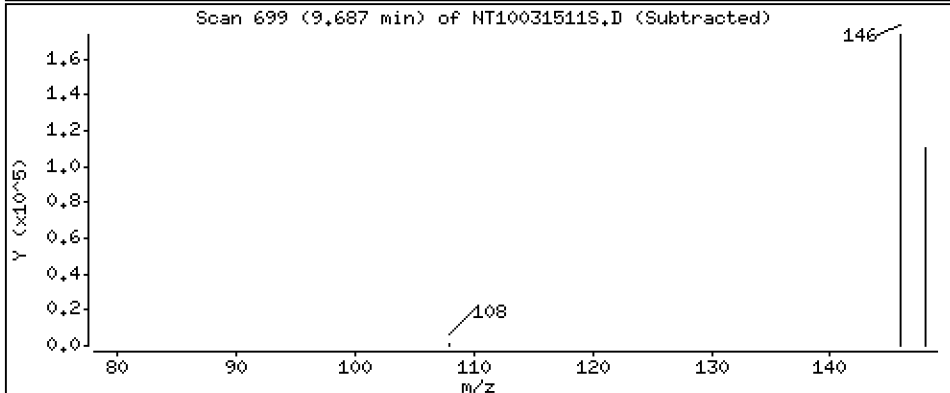
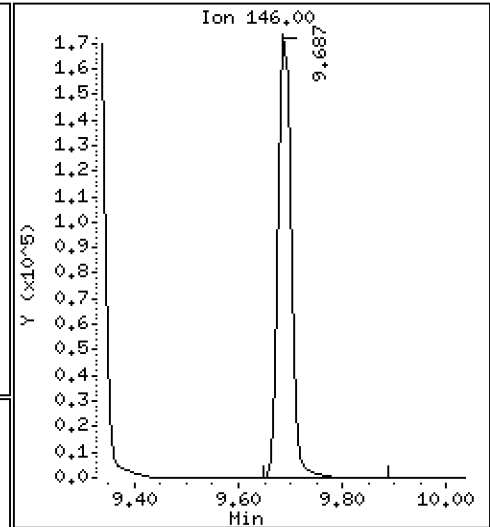
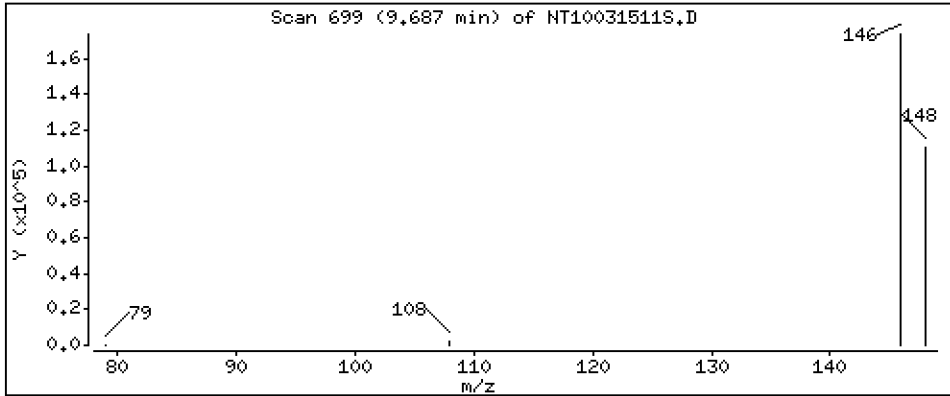
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 4.679 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

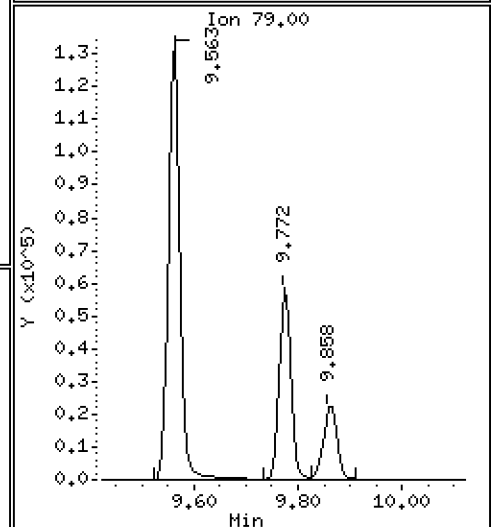
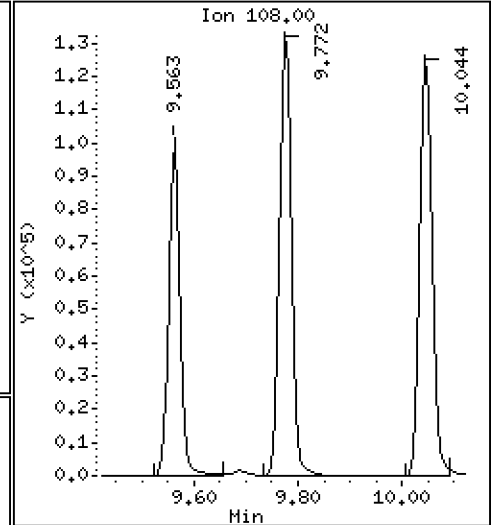
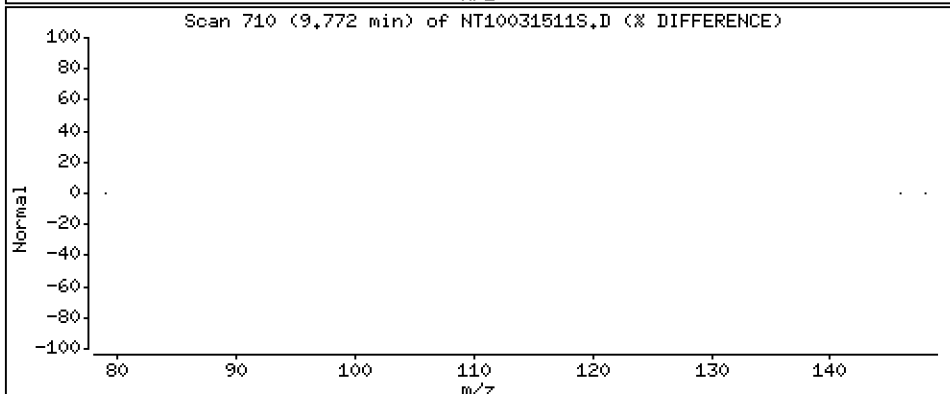
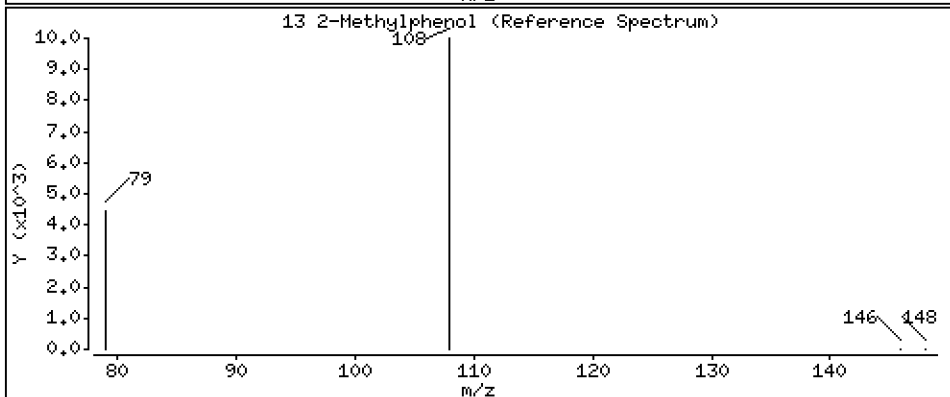
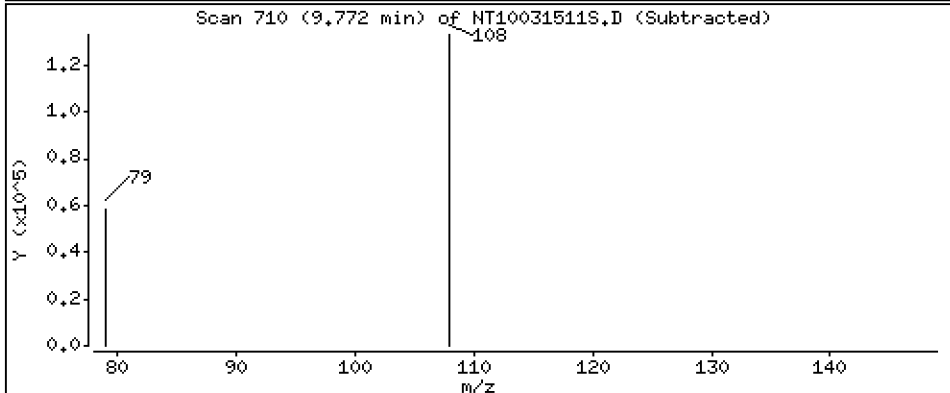
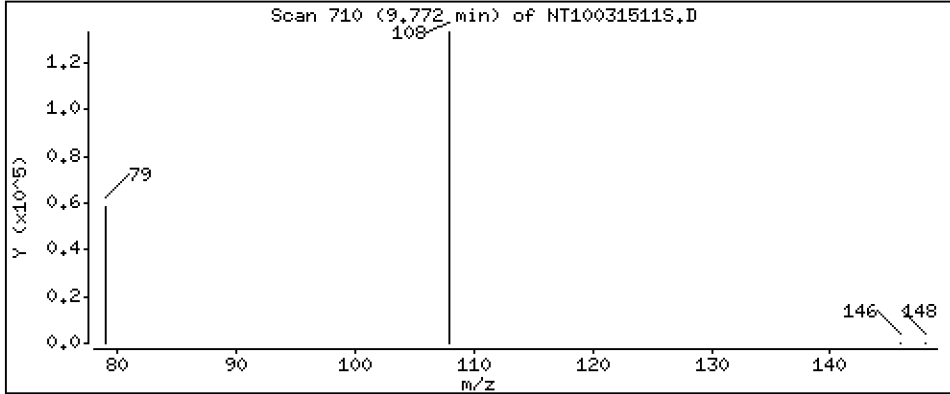
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.197 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

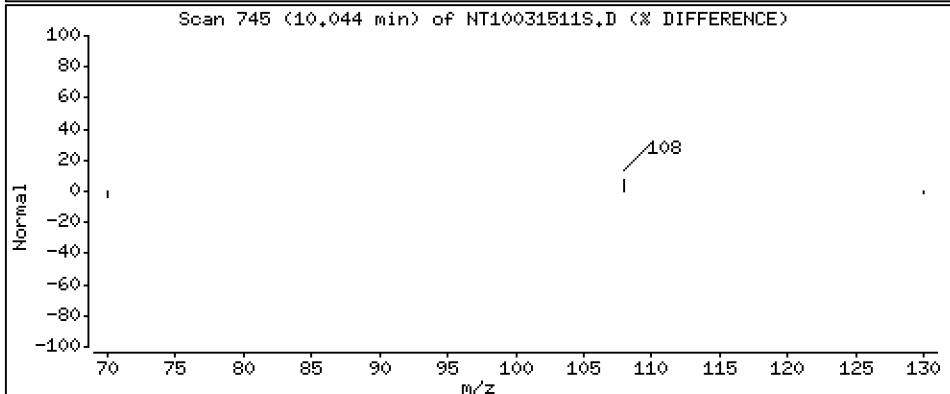
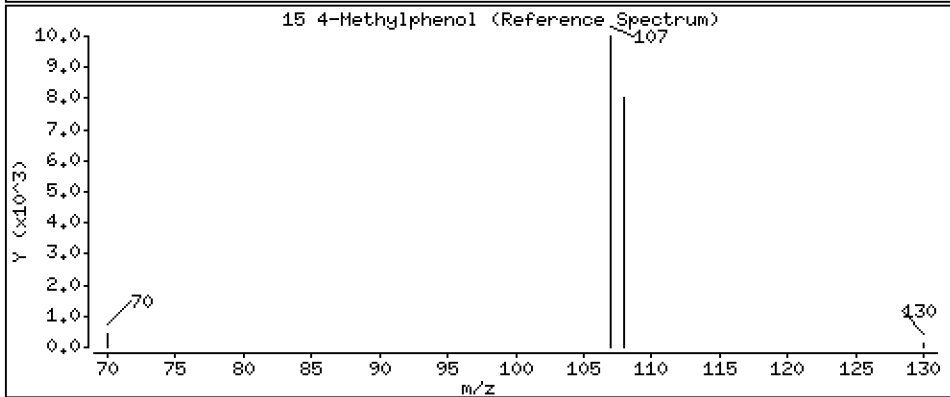
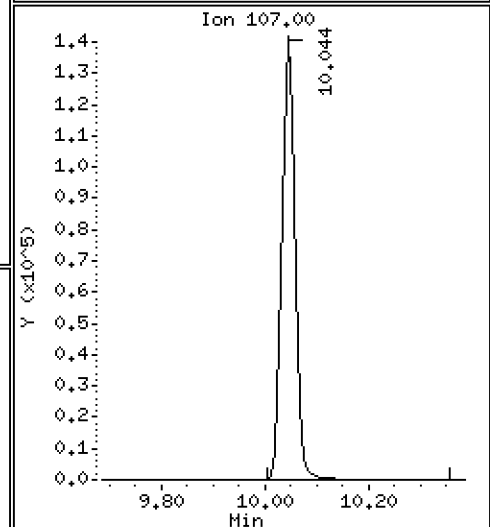
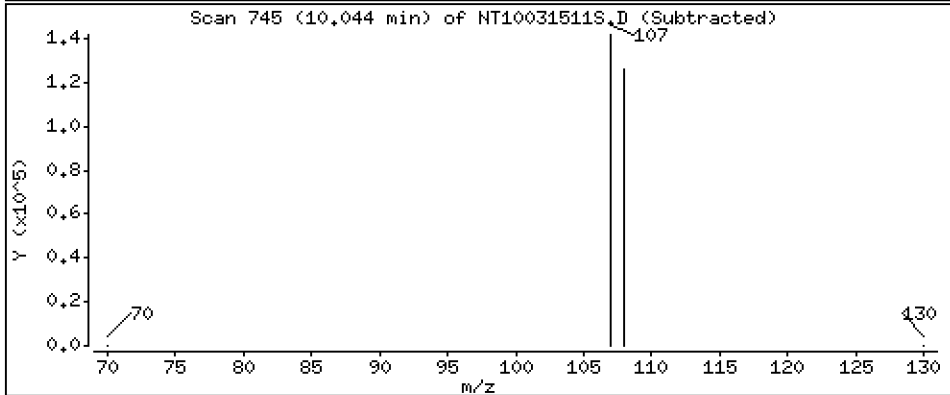
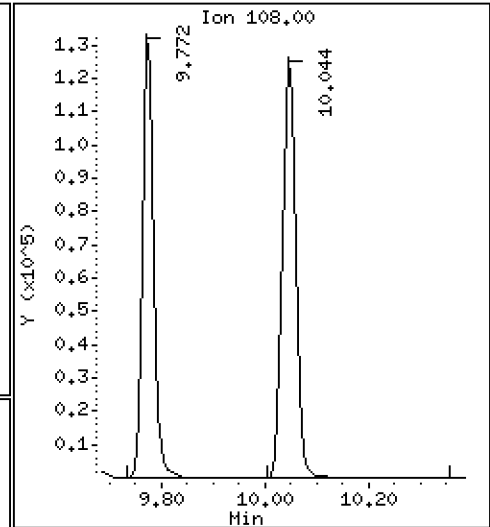
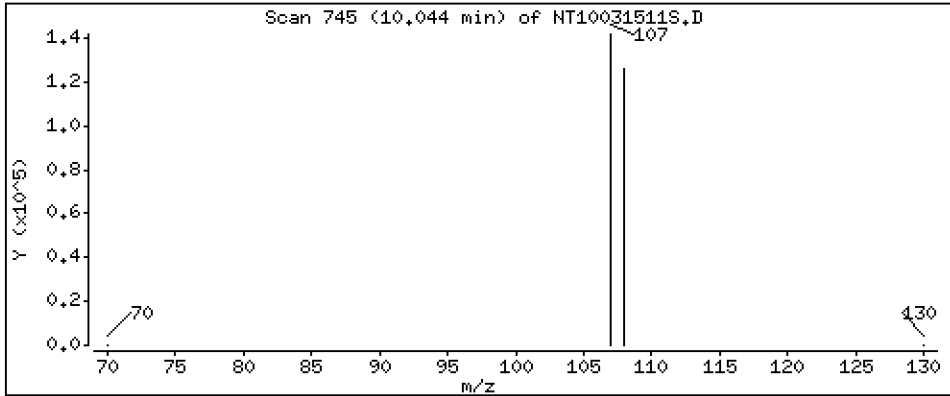
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 4.463 ug/L





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

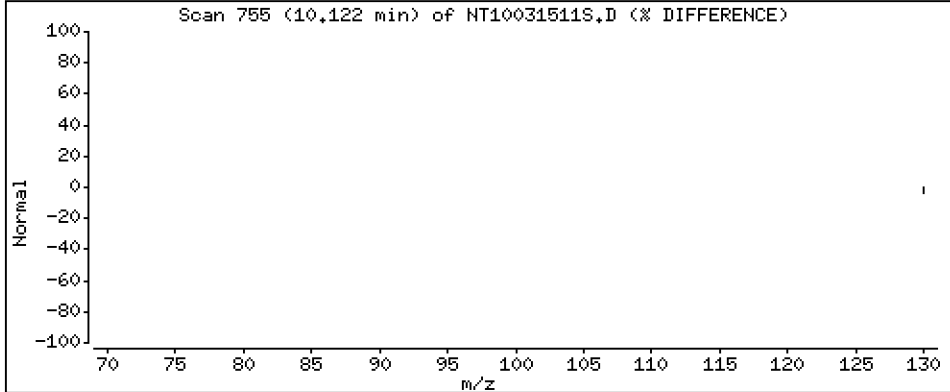
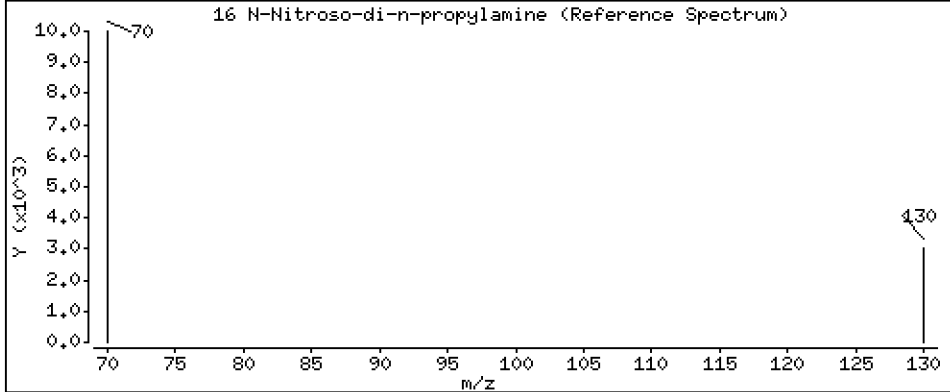
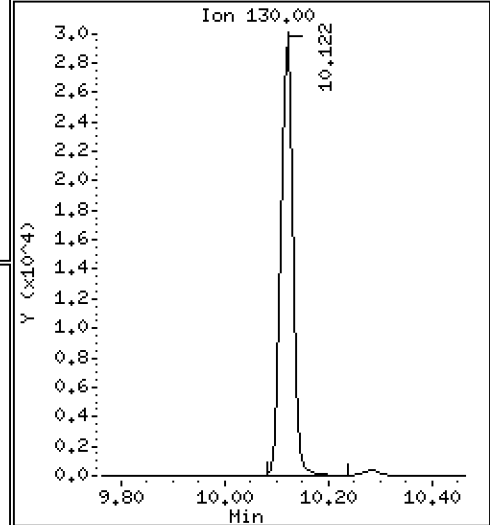
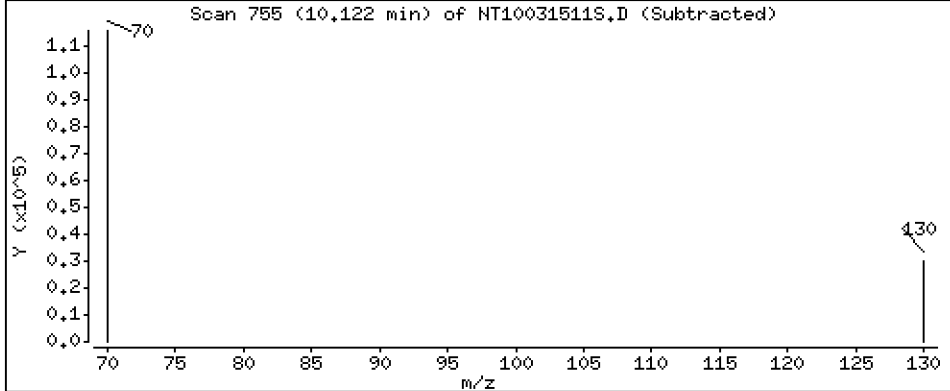
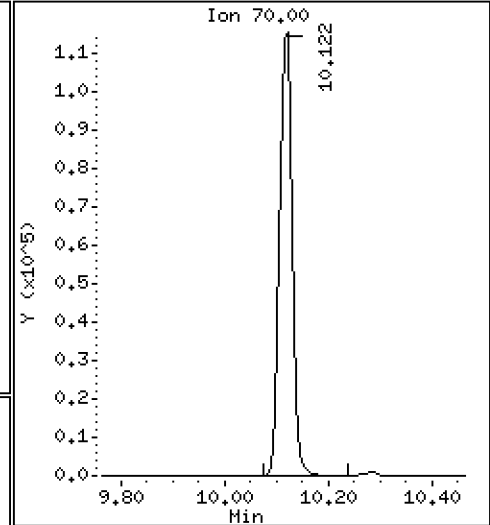
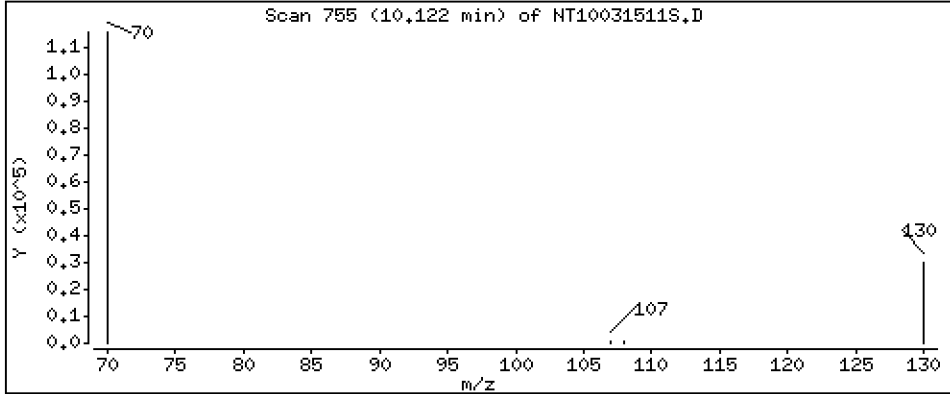
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,282 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

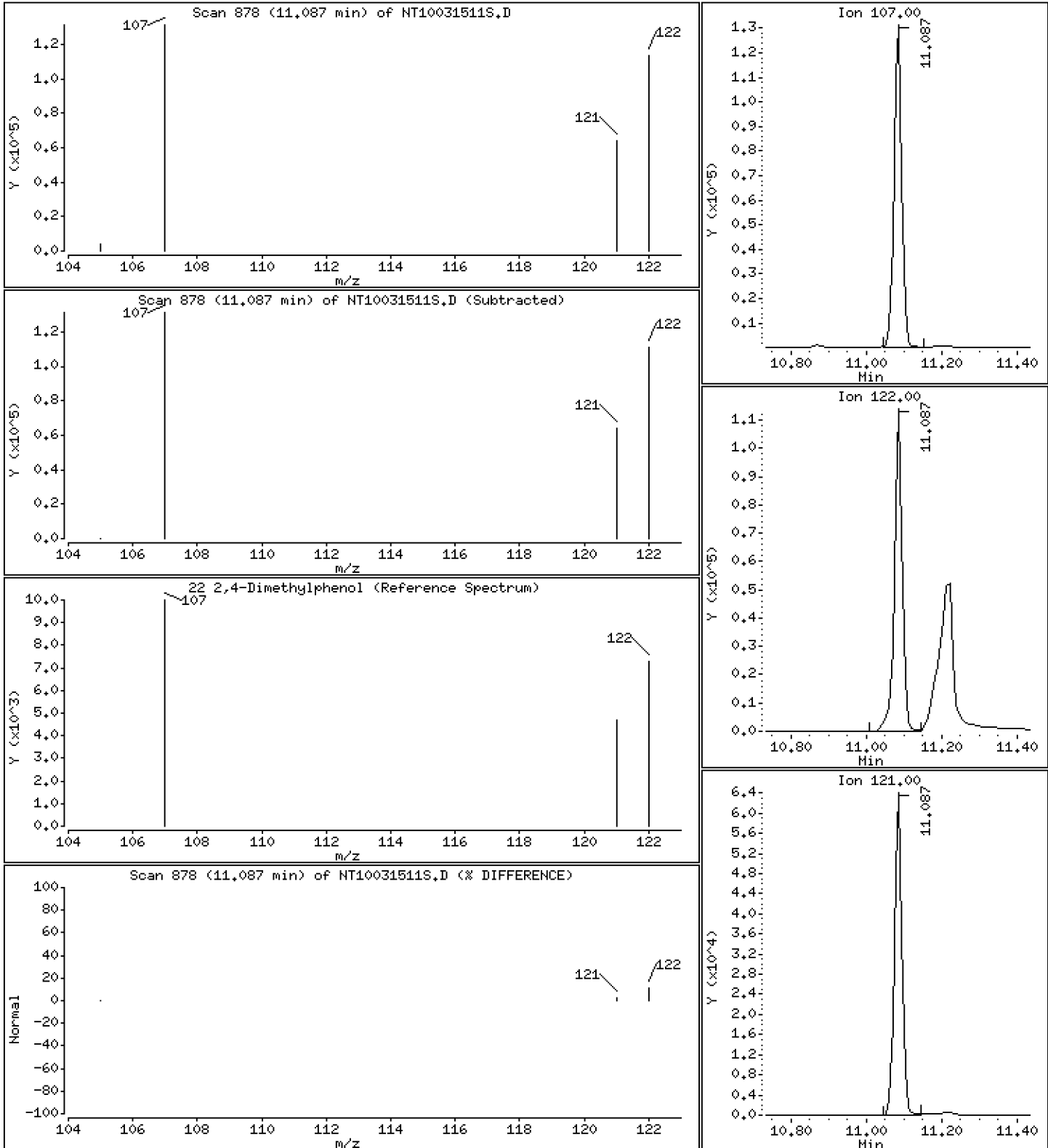
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 3,660 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

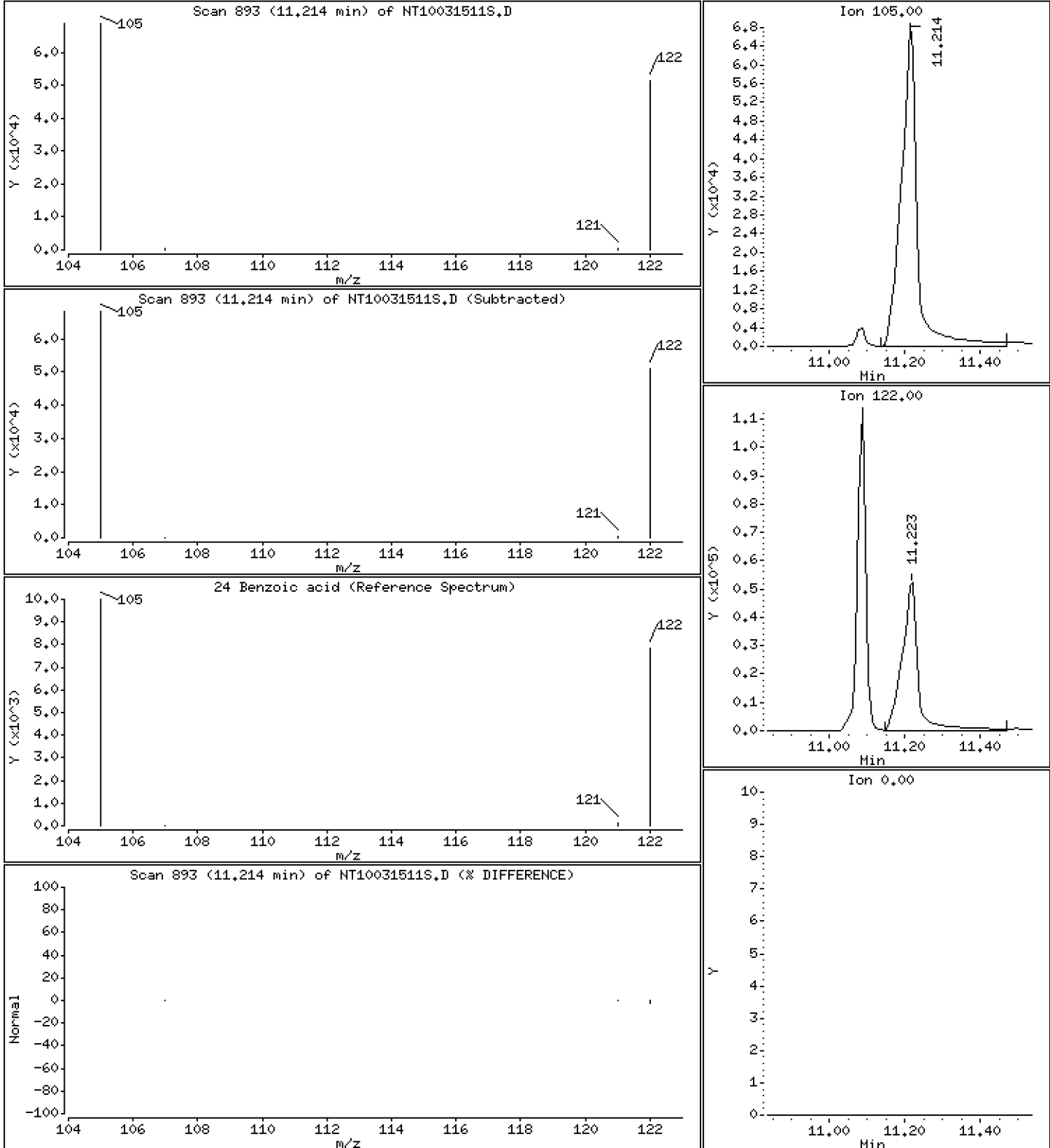
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 6,746 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

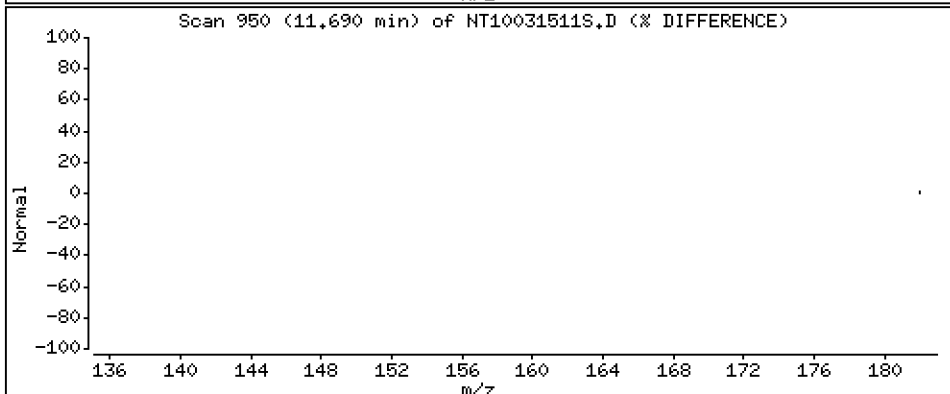
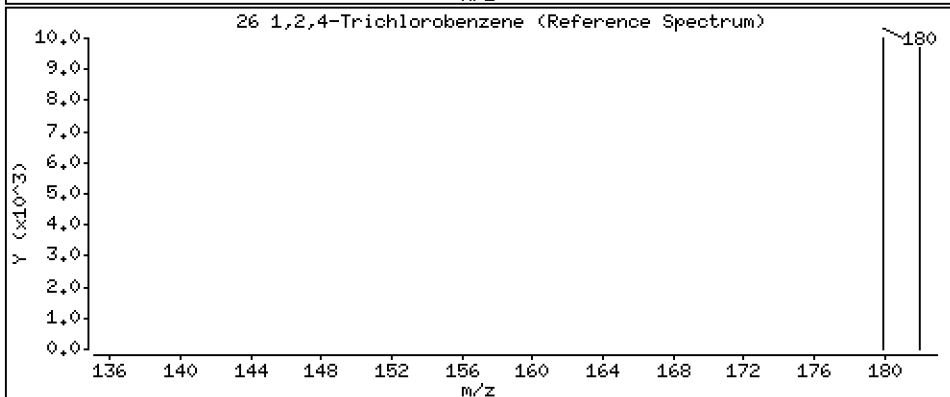
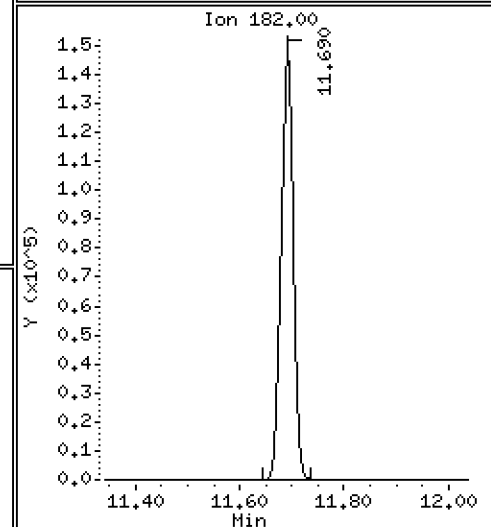
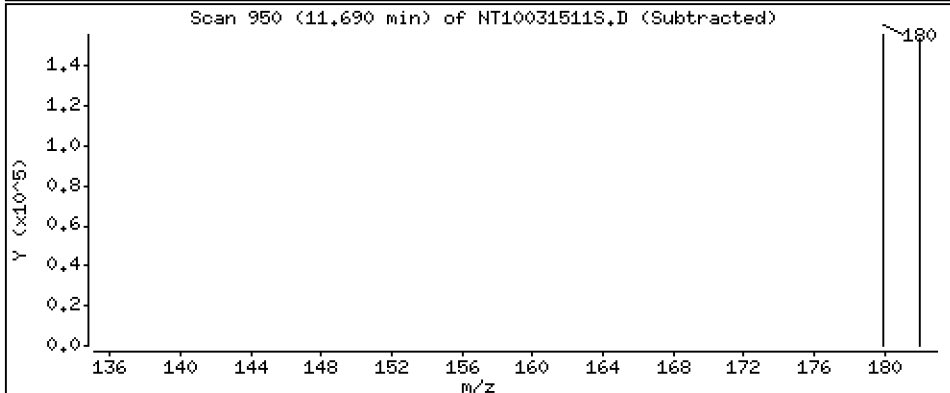
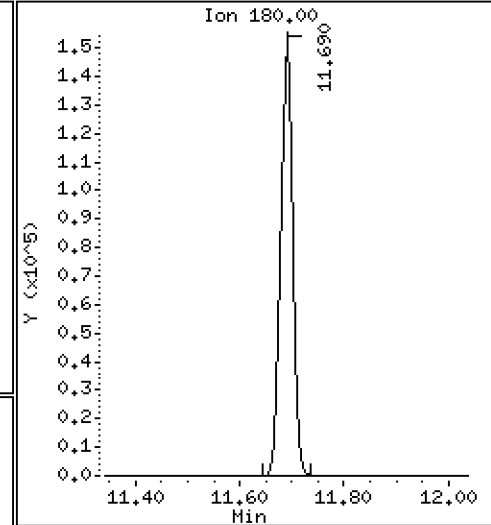
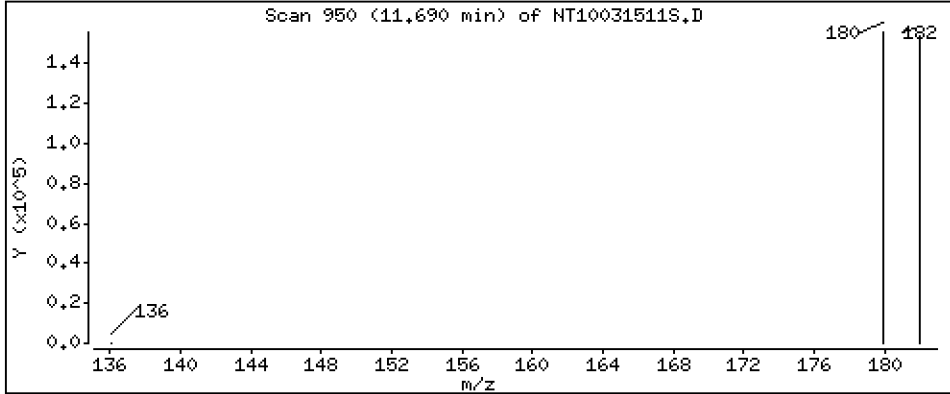
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,445 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

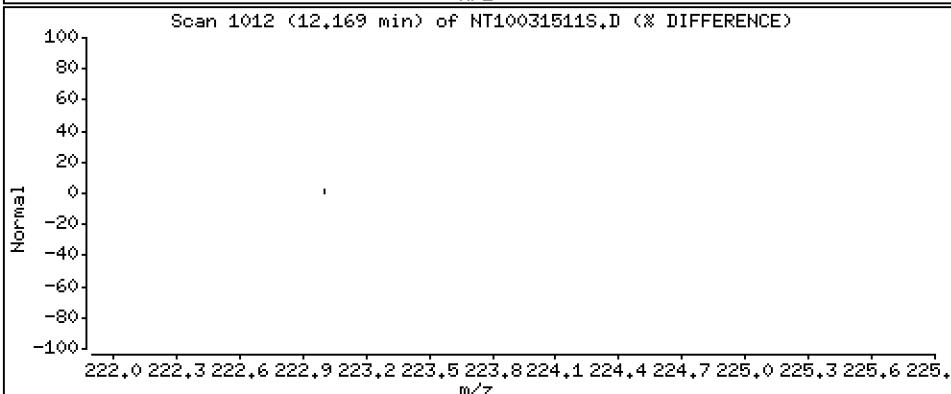
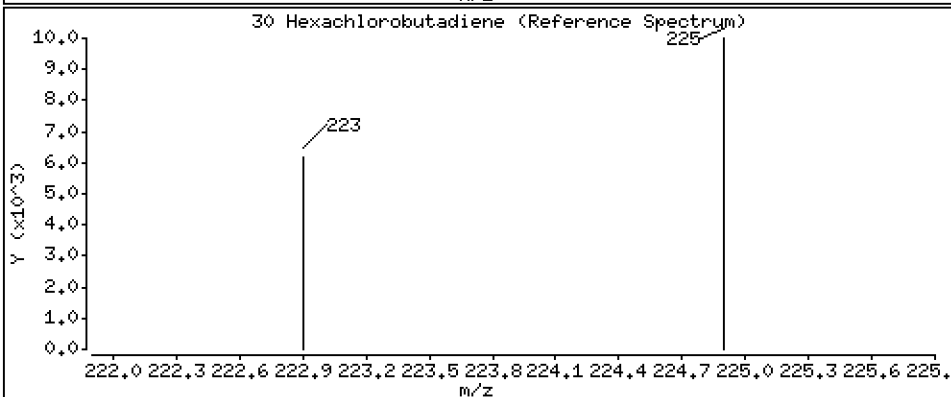
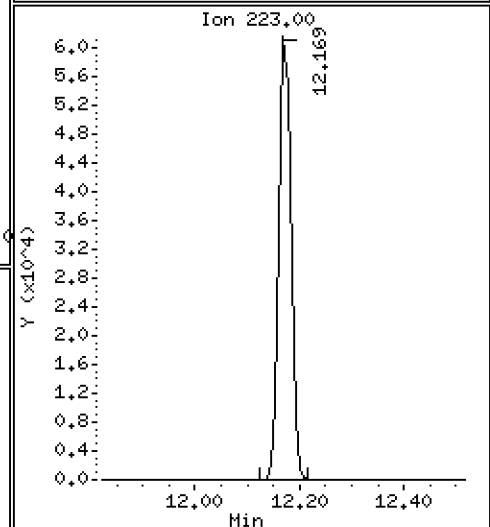
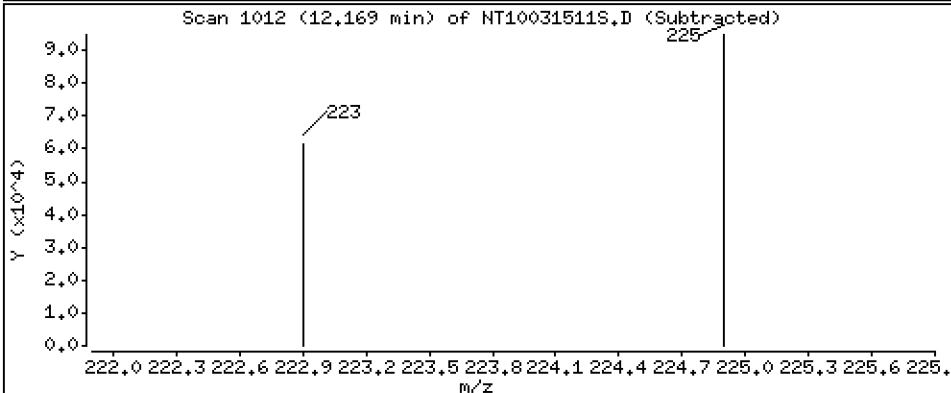
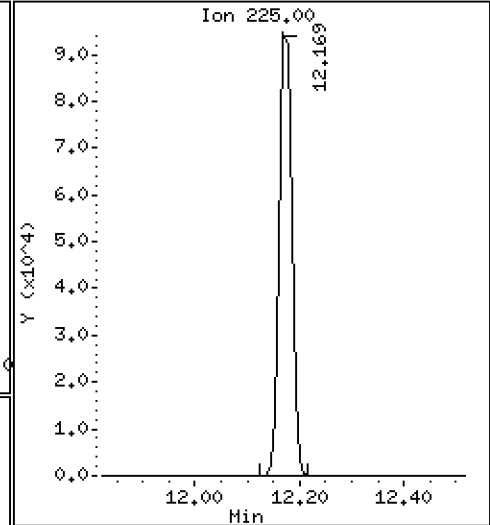
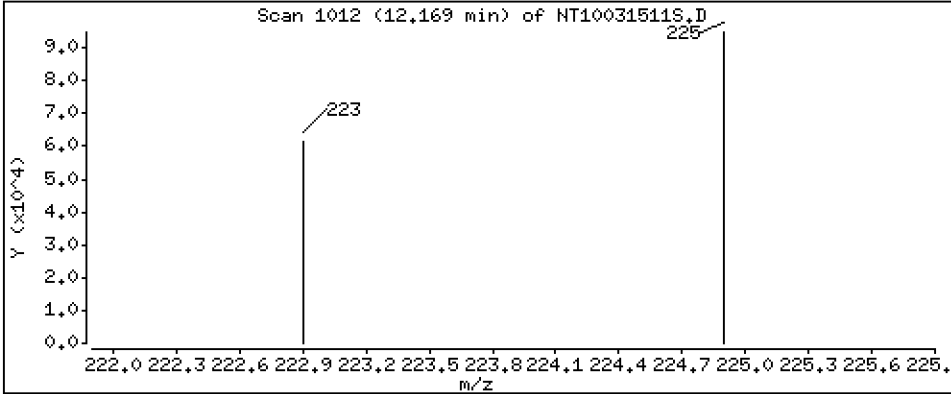
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,653 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

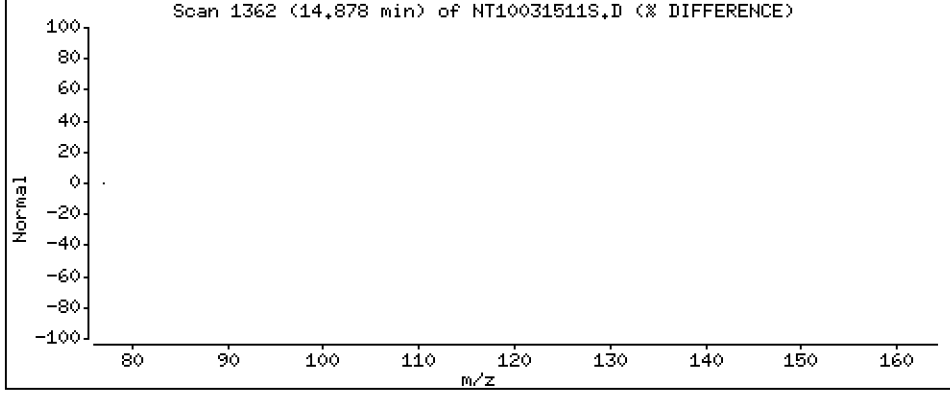
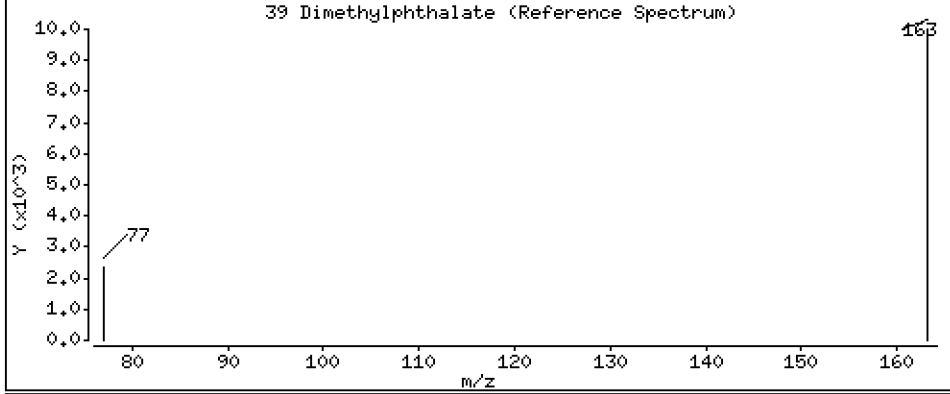
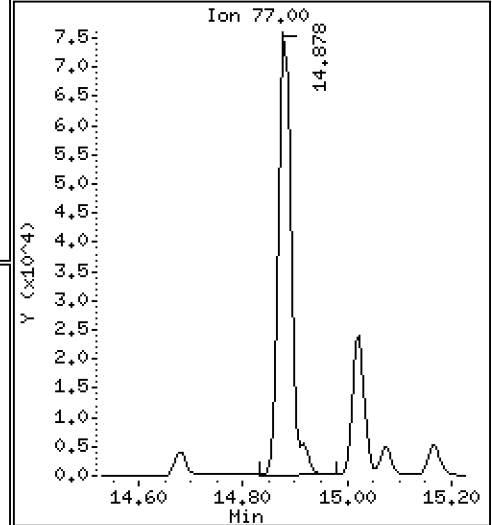
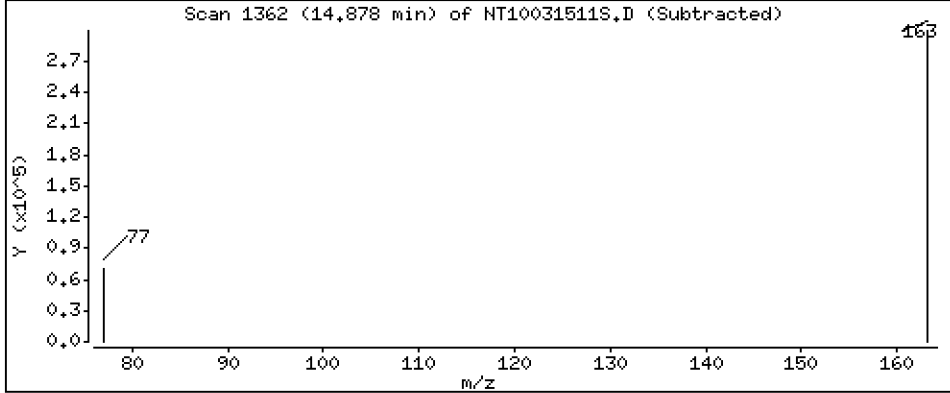
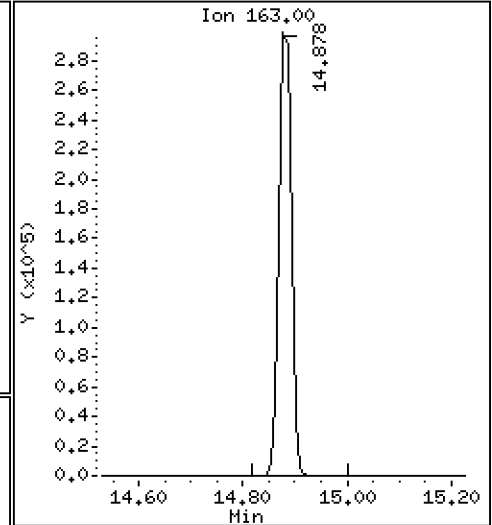
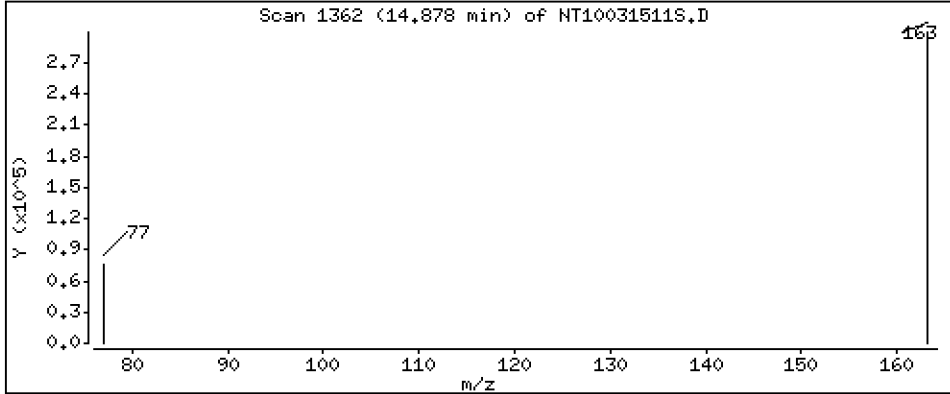
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,948 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

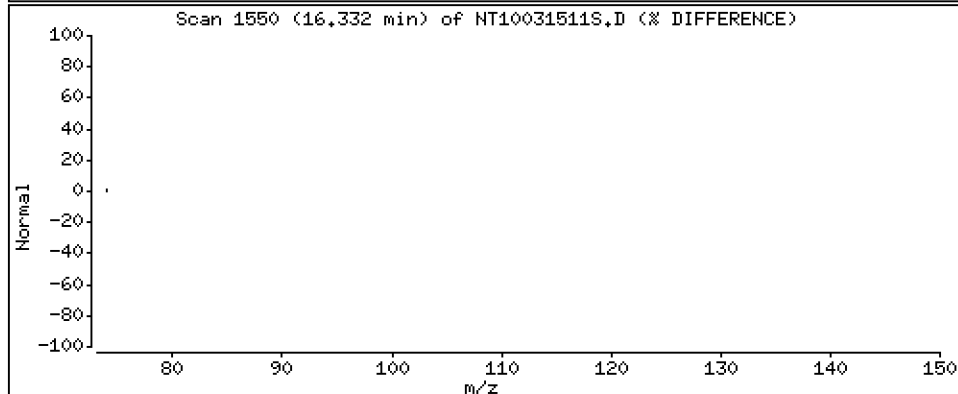
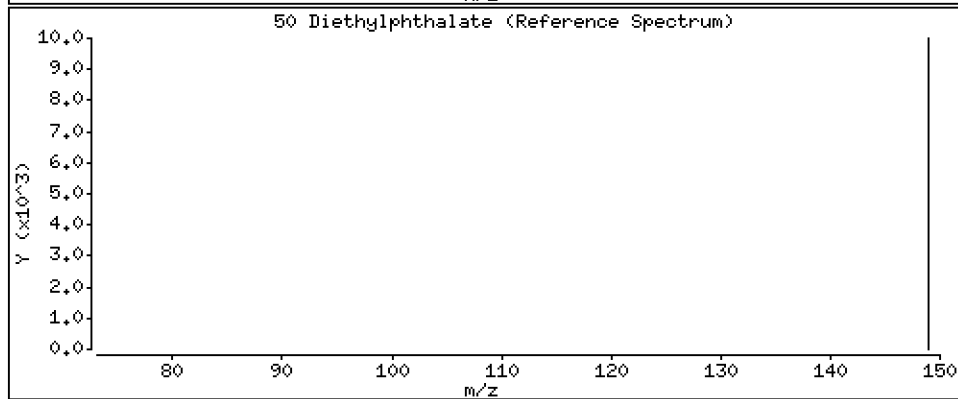
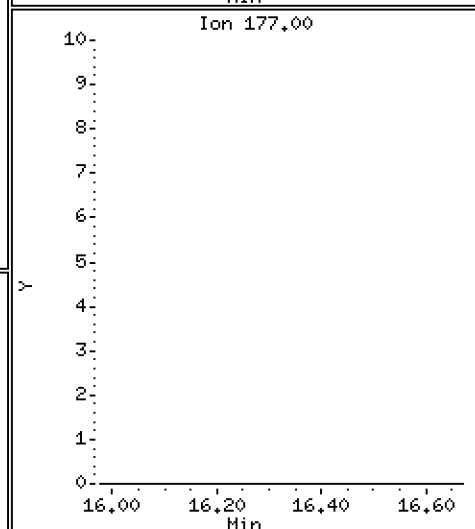
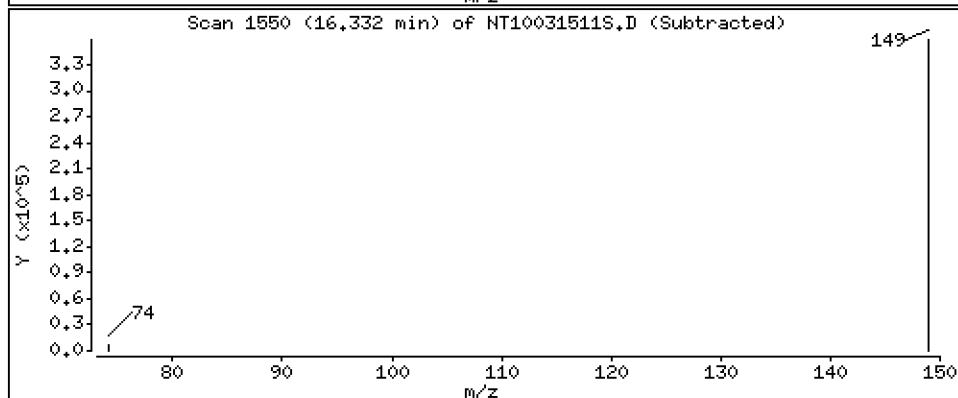
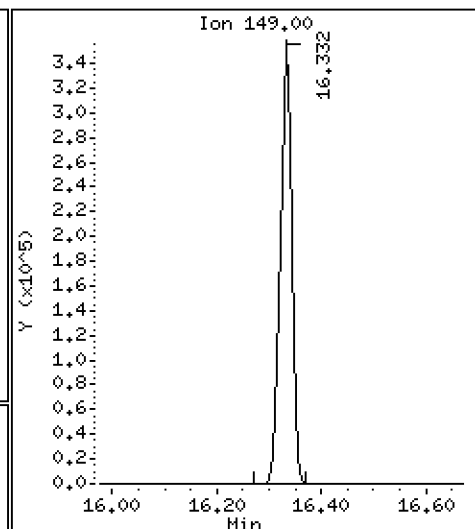
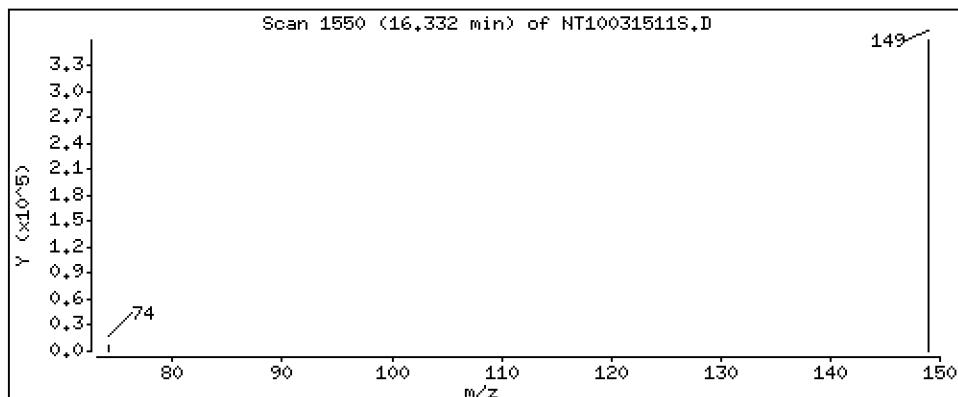
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 5.364 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

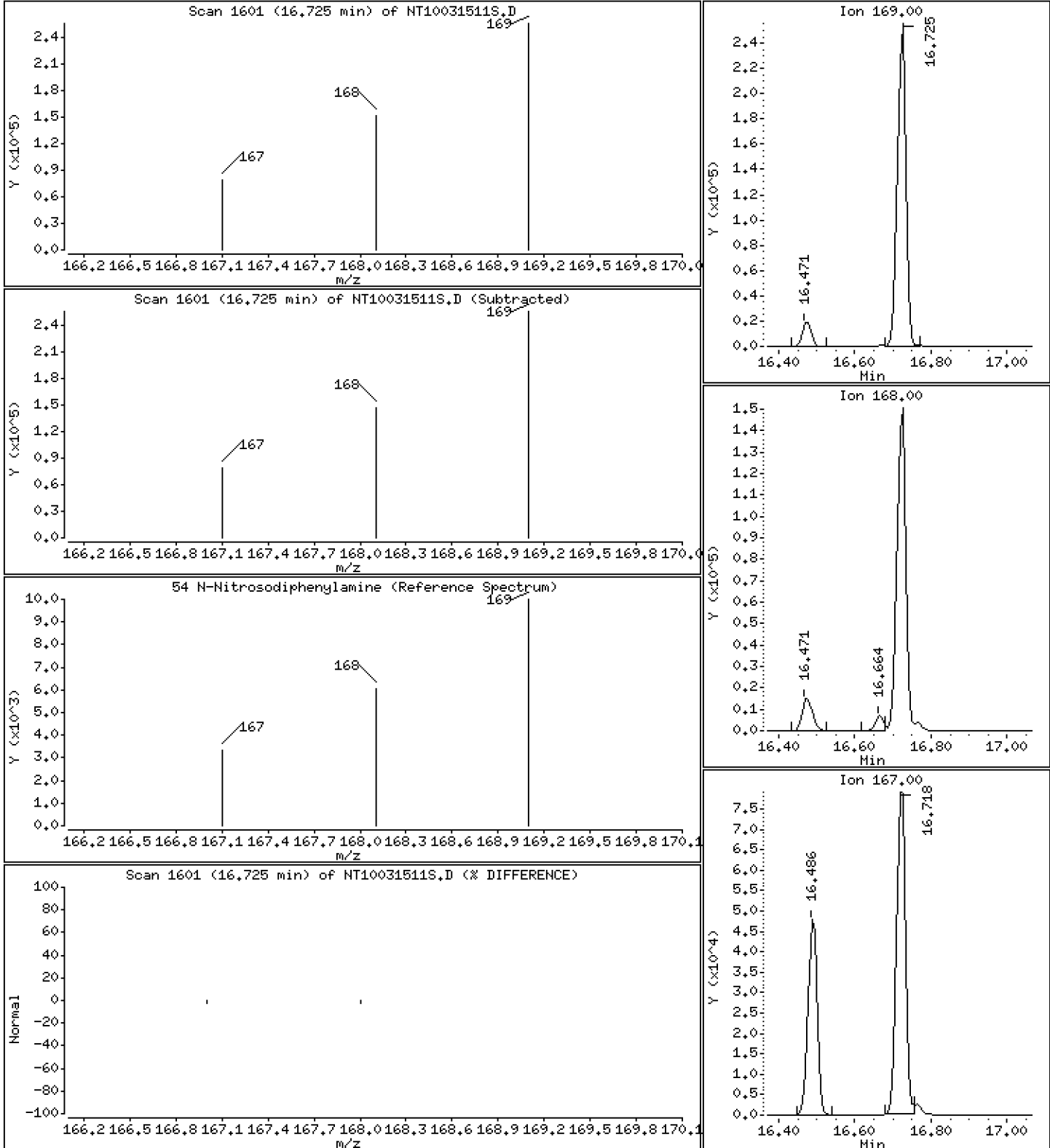
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 5.080 ug/L





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

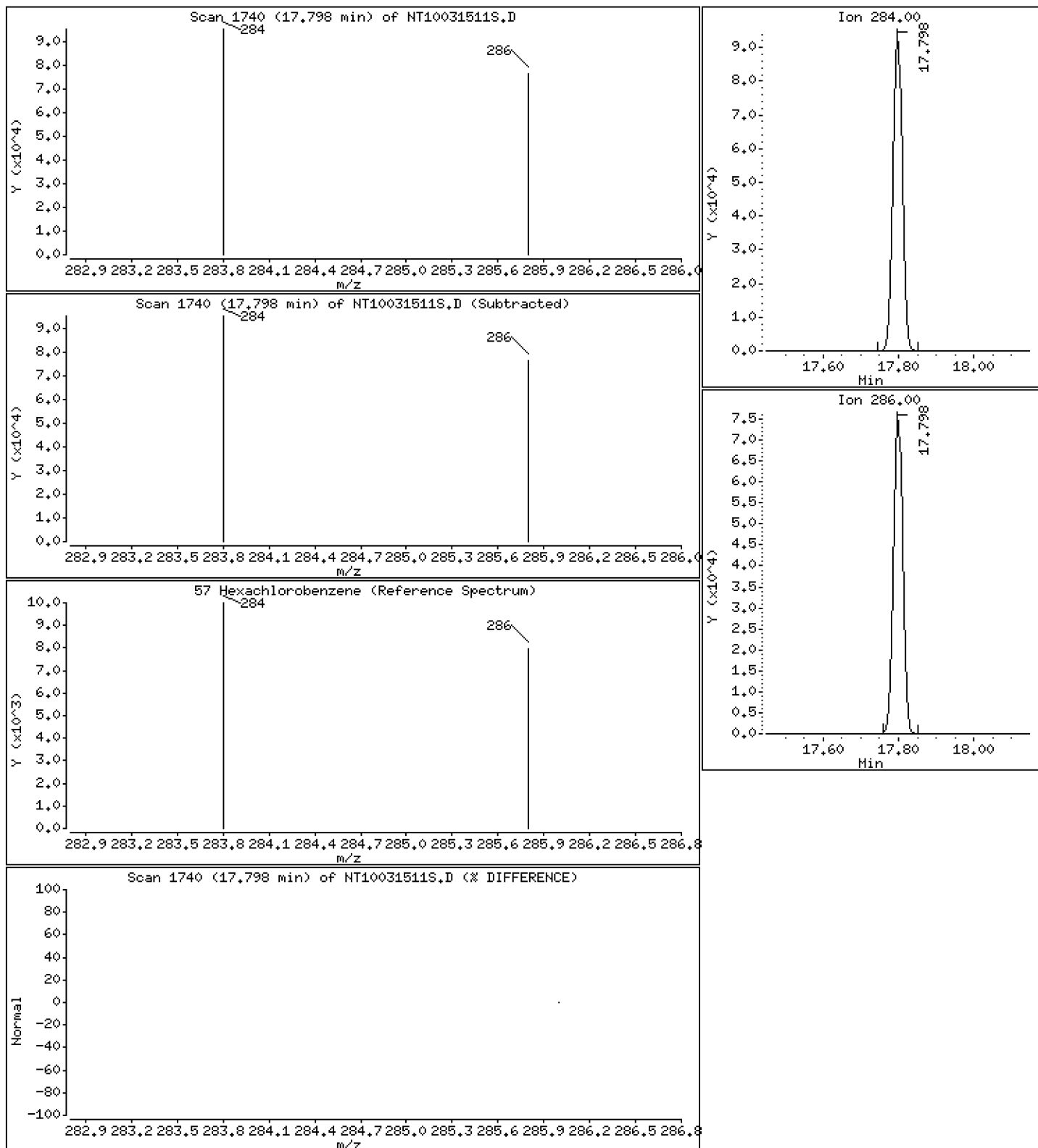
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,614 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

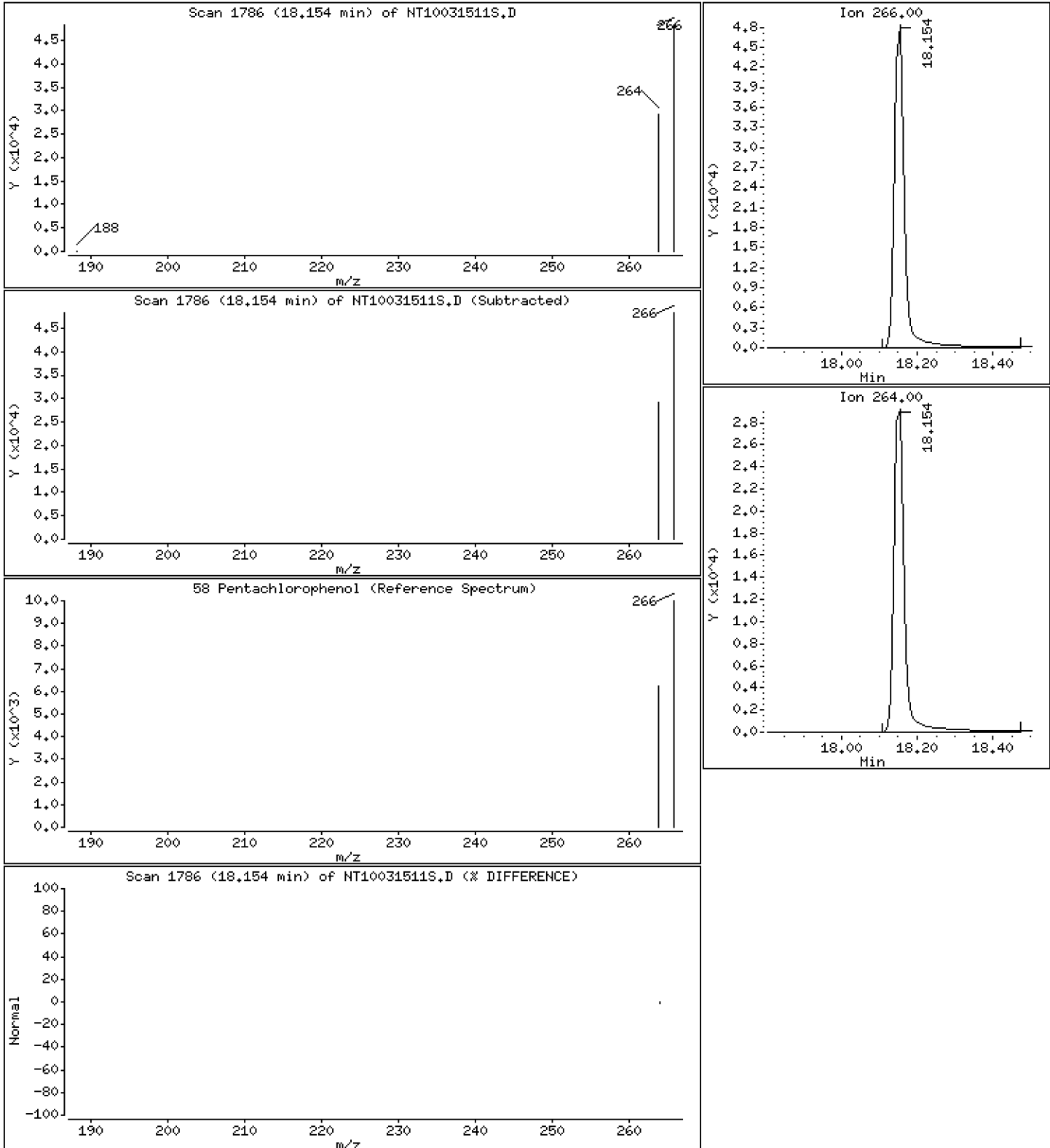
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 4,418 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

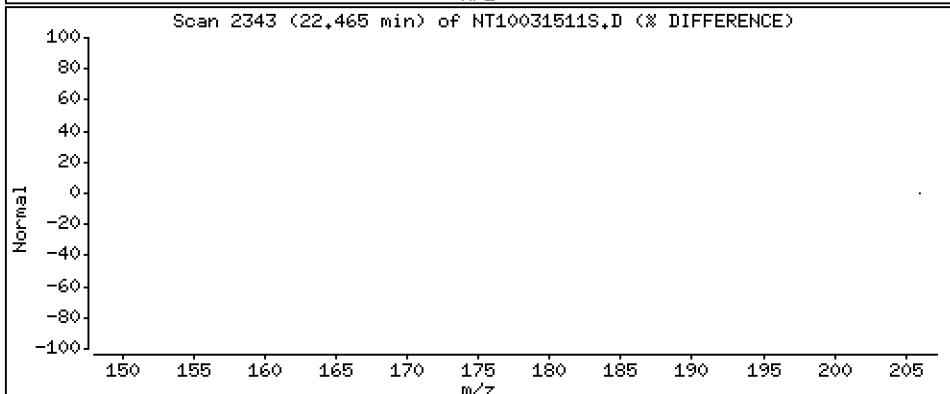
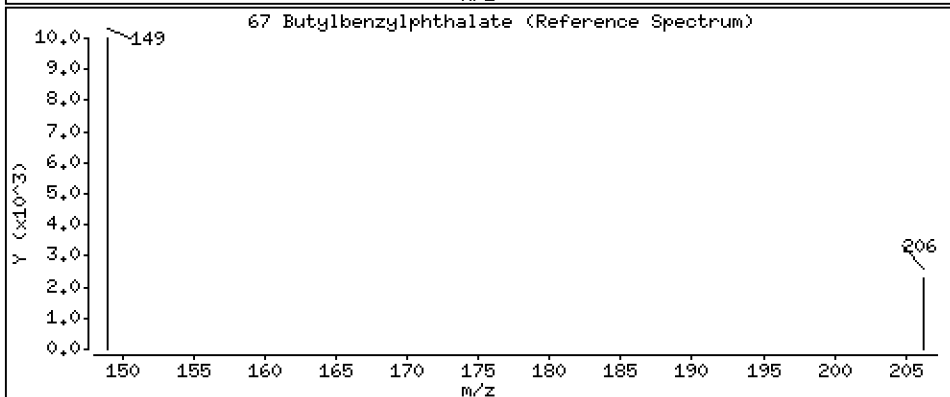
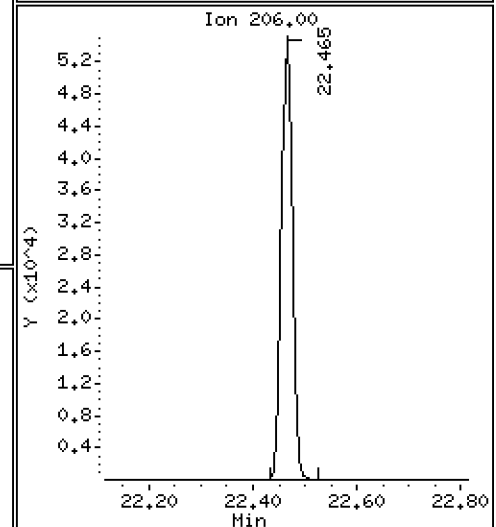
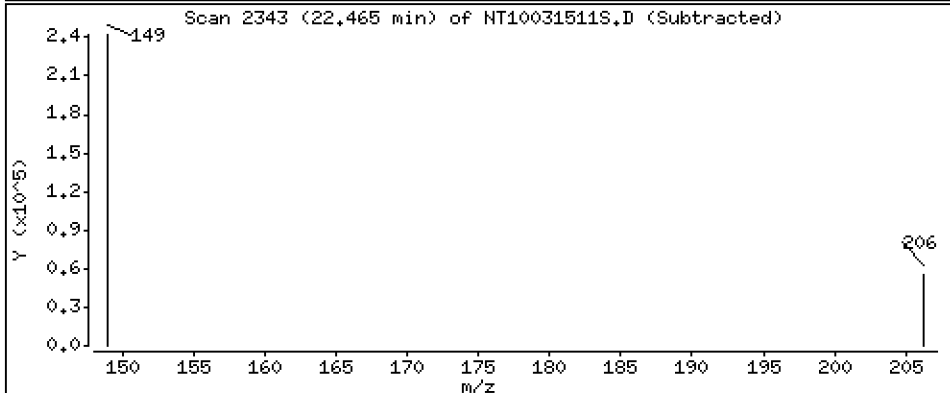
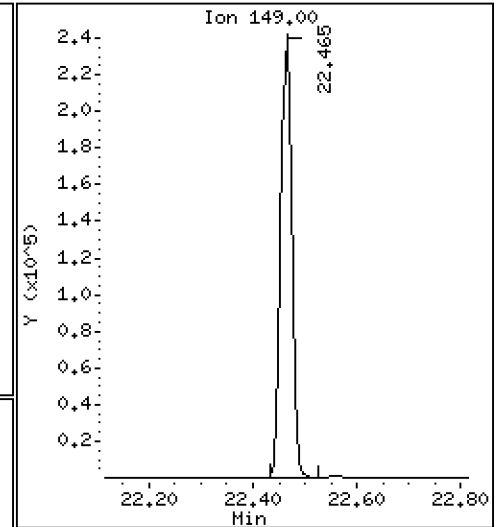
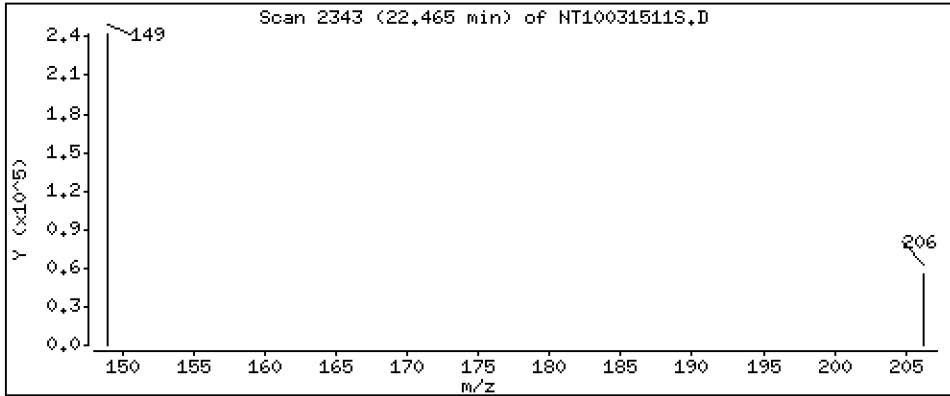
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,121 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

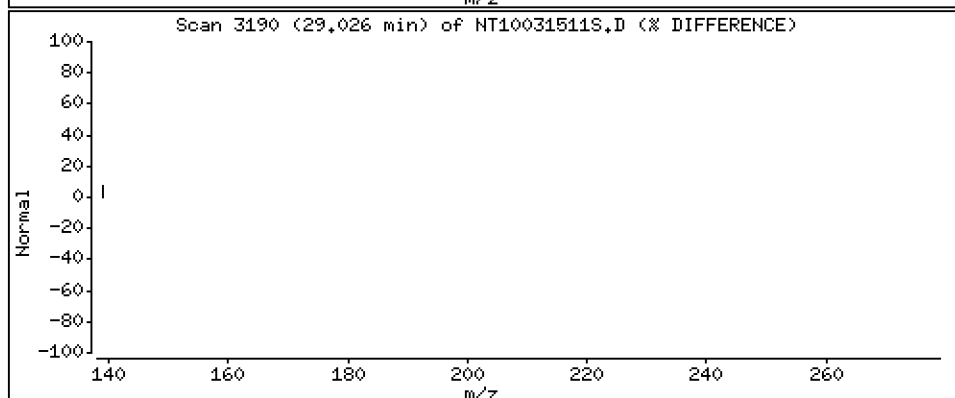
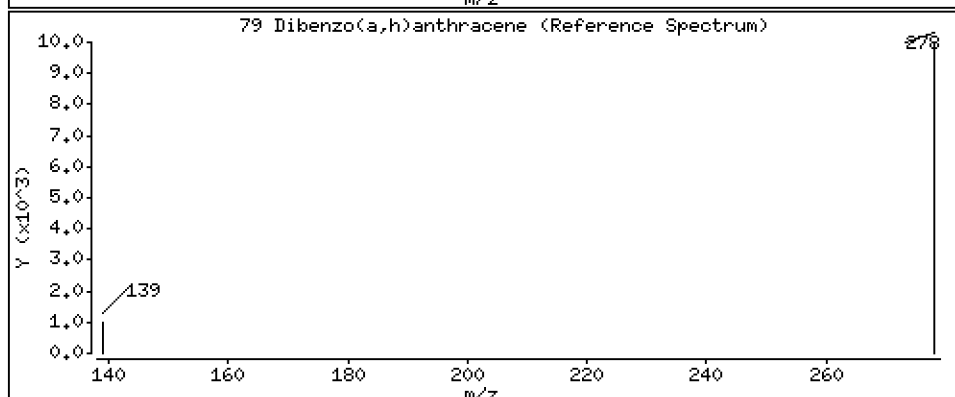
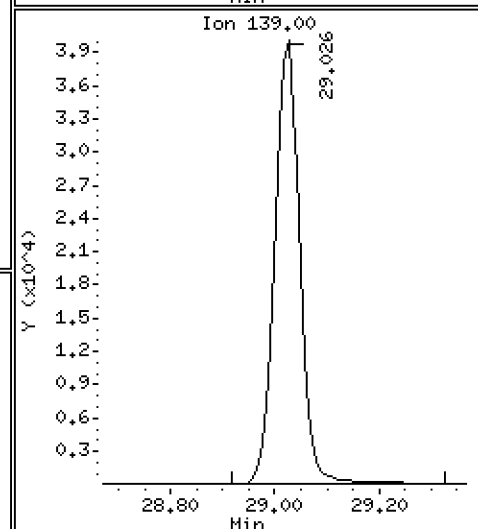
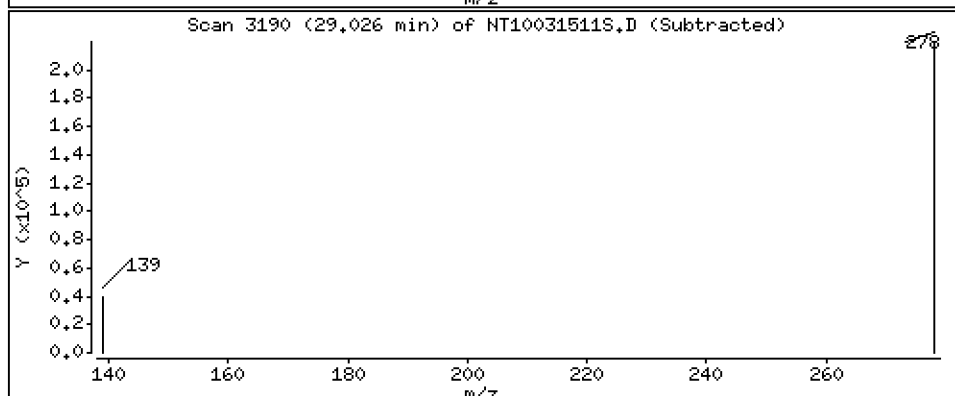
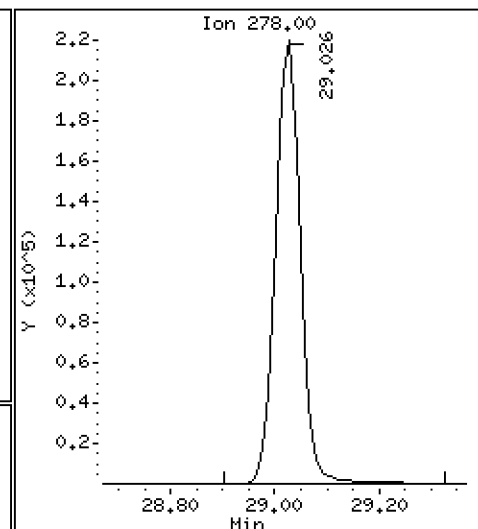
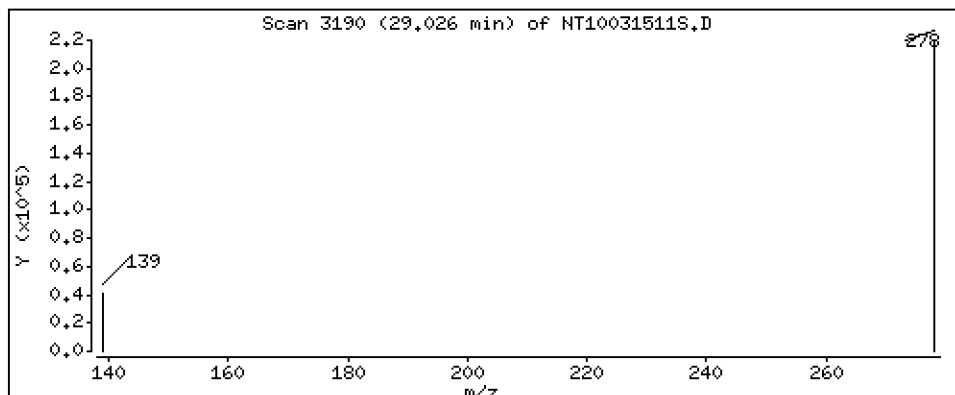
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,238 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

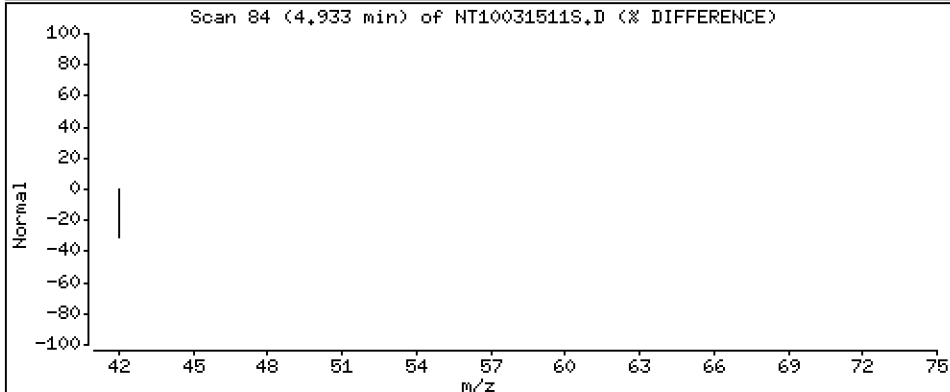
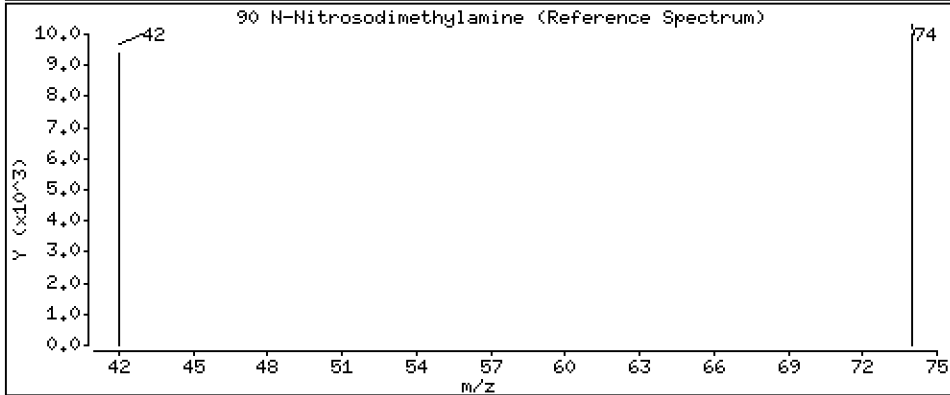
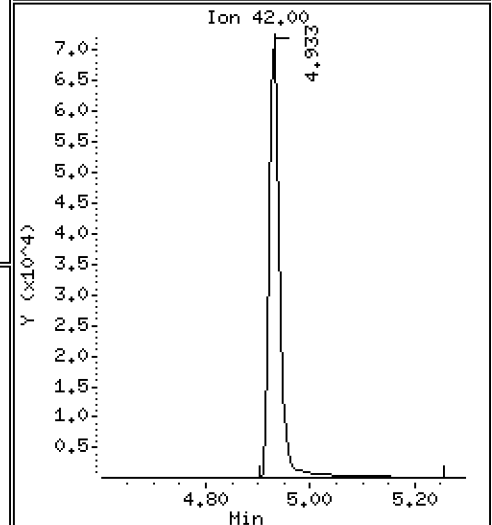
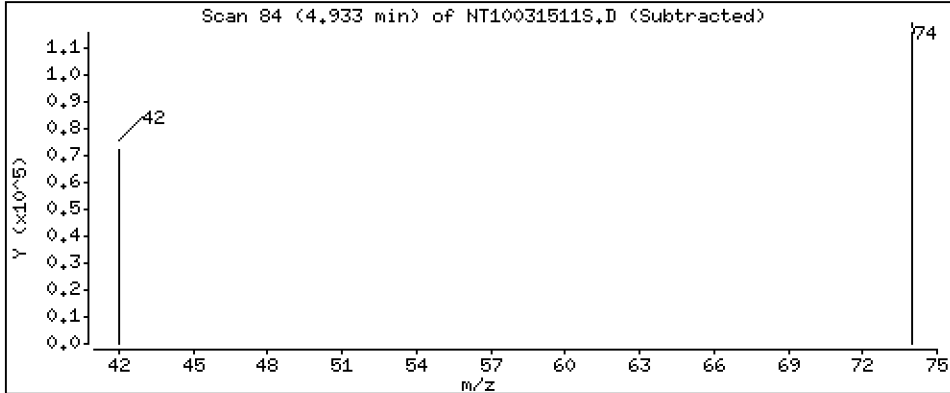
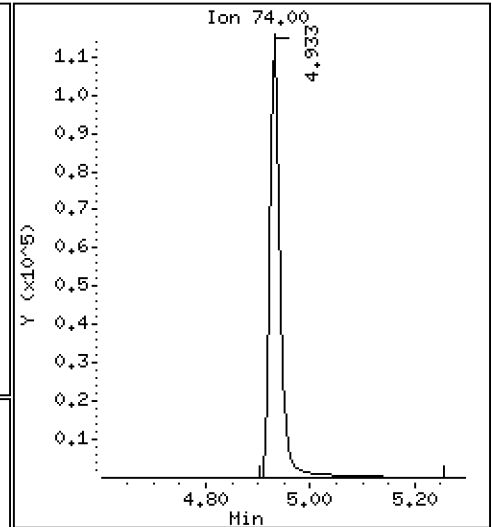
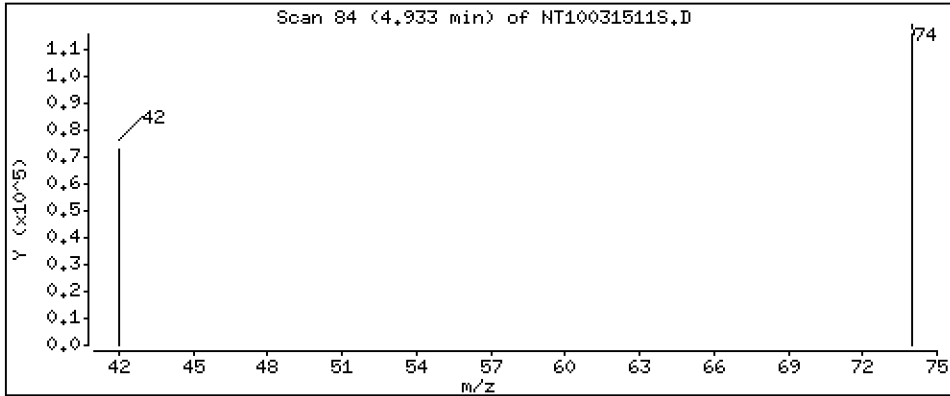
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 5.096 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D  
 Lab Smp Id: SLC0238-SCV1  
 Inj Date : 16-MAR-2023 02:16 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : SLC0238-SCV1  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

Concentration Formula:  $Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable$

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |         |
|-------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|---------|
|                               |       |     |                        |        |         |          | ON-COLUMN      | FINAL   |
|                               | MASS  |     |                        |        |         |          | (ug/mL)        | ( ug/L) |
| \$ 1 2-Fluorophenol           | 112   |     | Compound Not Detected. |        |         |          |                |         |
| 3 Phenol                      | 94    |     | 8.664                  | 8.664  | (0.931) | 303581   | 4.37299        | 4.373   |
| 7 1,3-Dichlorobenzene         | 146   |     | 9.236                  | 9.236  | (0.992) | 301605   | 4.64290        | 4.643   |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.306                  | 9.298  | (1.000) | 166866   | 4.00000        |         |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.329                  | 9.329  | (1.002) | 303390   | 4.83813        | 4.838   |
| 11 Benzyl alcohol             | 79    |     | 9.562                  | 9.570  | (1.028) | 208505   | 5.18071        | 5.181   |
| 12 1,2-Dichlorobenzene        | 146   |     | 9.686                  | 9.686  | (1.041) | 288539   | 4.67875        | 4.679   |
| 13 2-Methylphenol             | 108   |     | 9.772                  | 9.772  | (1.050) | 201888   | 4.19698        | 4.197   |
| 15 4-Methylphenol             | 108   |     | 10.043                 | 10.036 | (1.079) | 223083   | 4.46301        | 4.463   |
| 16 N-Nitroso-di-n-propylamine | 70    |     | 10.121                 | 10.113 | (1.088) | 186707   | 5.28174        | 5.282   |
| 22 2,4-Dimethylphenol         | 107   |     | 11.086                 | 11.087 | (0.942) | 193654   | 3.66015        | 3.660   |
| 24 Benzoic acid               | 105   |     | 11.214                 | 11.189 | (0.952) | 200487   | 6.74612        | 6.746   |
| 26 1,2,4-Trichlorobenzene     | 180   |     | 11.690                 | 11.690 | (0.993) | 236605   | 4.44540        | 4.445   |
| * 27 Naphthalene-d8           | 136   |     | 11.775                 | 11.775 | (1.000) | 612104   | 4.00000        |         |
| 30 Hexachlorobutadiene        | 225   |     | 12.169                 | 12.169 | (1.033) | 150581   | 4.65339        | 4.653   |
| 39 Dimethylphthalate          | 163   |     | 14.877                 | 14.877 | (0.967) | 472341   | 4.94766        | 4.948   |
| * 42 Acenaphthene-d10         | 162   |     | 15.388                 | 15.380 | (1.000) | 302524   | 4.00000        |         |
| 50 Diethylphthalate           | 149   |     | 16.331                 | 16.324 | (1.061) | 530540   | 5.36440        | 5.364   |
| 54 N-Nitrosodiphenylamine     | 169   |     | 16.725                 | 16.717 | (0.908) | 377357   | 5.08034        | 5.080   |
| 57 Hexachlorobenzene          | 284   |     | 17.798                 | 17.798 | (0.966) | 153405   | 4.61353        | 4.614   |

| Compounds                 | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
|                           |       |     |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>( ug/L) |
| 58 Pentachlorophenol      | 266   |     | 18.154 | 18.154 | (0.985) | 83223    | 4.41780              | 4.418            |
| * 59 Phenanthrene-d10     | 188   |     | 18.425 | 18.417 | (1.000) | 553619   | 4.00000              |                  |
| \$ 66 Terphenyl-d14       | 244   |     | 21.543 | 21.543 | (0.918) | 117      | 0.00154              | 0.001543 (RM)    |
| 67 Butylbenzylphthalate   | 149   |     | 22.464 | 22.465 | (0.958) | 332887   | 5.12147              | 5.121            |
| * 69 Chrysene-d12         | 240   |     | 23.455 | 23.455 | (1.000) | 465428   | 4.00000              |                  |
| * 77 Perylene-d12         | 264   |     | 26.188 | 26.188 | (1.000) | 532593   | 4.00000              |                  |
| 79 Dibenzo(a,h)anthracene | 278   |     | 29.026 | 29.019 | (1.108) | 722983   | 4.23762              | 4.238            |
| 90 N-Nitrosodimethylamine | 74    |     | 4.933  | 4.948  | (0.530) | 163555   | 5.09625              | 5.096            |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT10031511S.D  
 Lab Smp Id: SLC0238-SCV1  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Misc Info:

Calibration Date: 15-MAR-2023  
 Calibration Time: 23:06  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|---------------------|----------|------------|---------|--------|--------|
|                     |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze | 188081   | 94041      | 376162  | 166866 | -11.28 |
| 27 Naphthalene-d8   | 674549   | 337275     | 1349098 | 612104 | -9.26  |
| 42 Acenaphthene-d10 | 328275   | 164138     | 656550  | 302524 | -7.84  |
| 59 Phenanthrene-d10 | 597140   | 298570     | 1194280 | 553619 | -7.29  |
| 69 Chrysene-d12     | 466503   | 233252     | 933006  | 465428 | -0.23  |
| 77 Perylene-d12     | 518203   | 259102     | 1036406 | 532593 | 2.78   |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.30     | 8.80     | 9.80  | 9.31   | 0.08  |
| 27 Naphthalene-d8   | 11.77    | 11.27    | 12.27 | 11.78  | 0.01  |
| 42 Acenaphthene-d10 | 15.39    | 14.89    | 15.89 | 15.39  | 0.01  |
| 59 Phenanthrene-d10 | 18.42    | 17.92    | 18.92 | 18.43  | 0.00  |
| 69 Chrysene-d12     | 23.45    | 22.95    | 23.95 | 23.46  | 0.00  |
| 77 Perylene-d12     | 26.19    | 25.69    | 26.69 | 26.19  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



REVIEW SUMMARY FOR FILE - NT10031511S.D

Lab ID: SLC0238-SCV1

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

16-MAR-2023 02:16

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV   | RRT    | DELTA | COMPOUND     |
|-------|-------|--------|-------|--------------|
| 0.952 | 0.000 | 0.9524 |       | Benzoic acid |

RRT check based on Ccal File: 20230315.b/NT10031510S.D

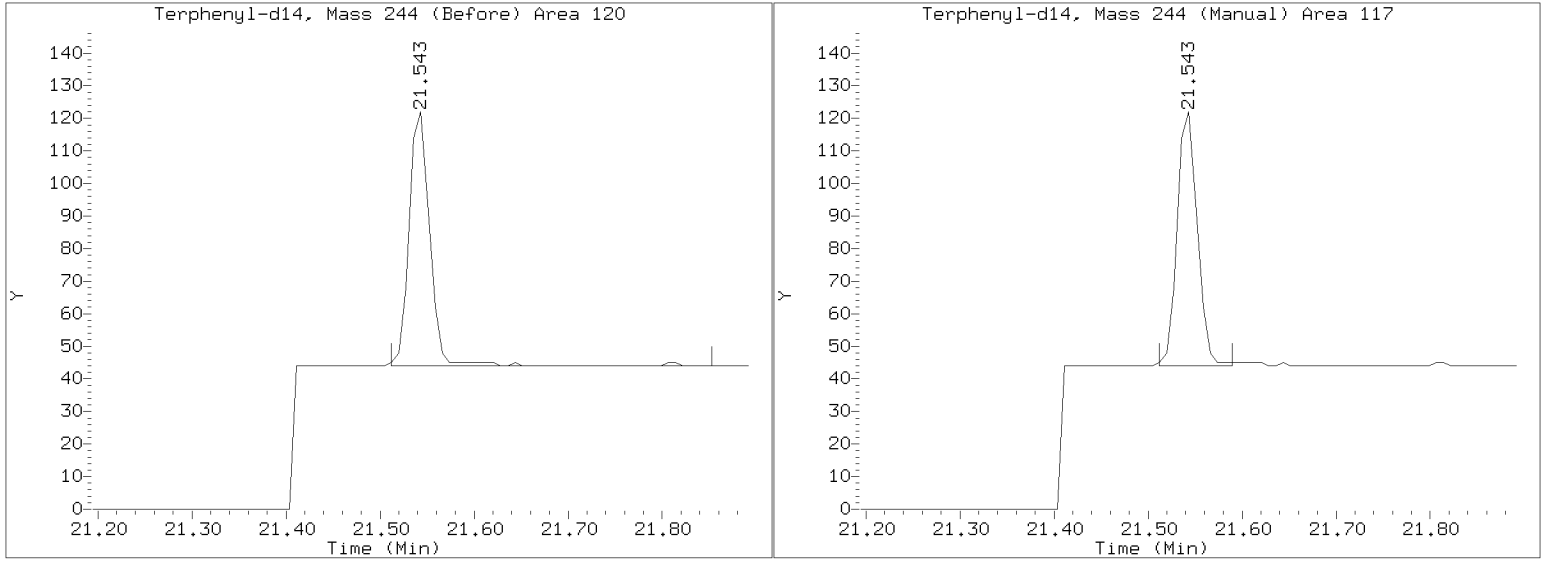
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031511S.D  
Injection Date: 16-MAR-2023 02:16  
Lab ID: SLC0238-SCV1 Client ID:  
Report Date: 03/16/2023 14:49





## SECOND-SOURCE CALIBRATION VERIFICATION

### EPA 8270E-SIM

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00049

Laboratory ID: SLC0238-SCV1

Sequence: SLC0238

Standard ID: K010066

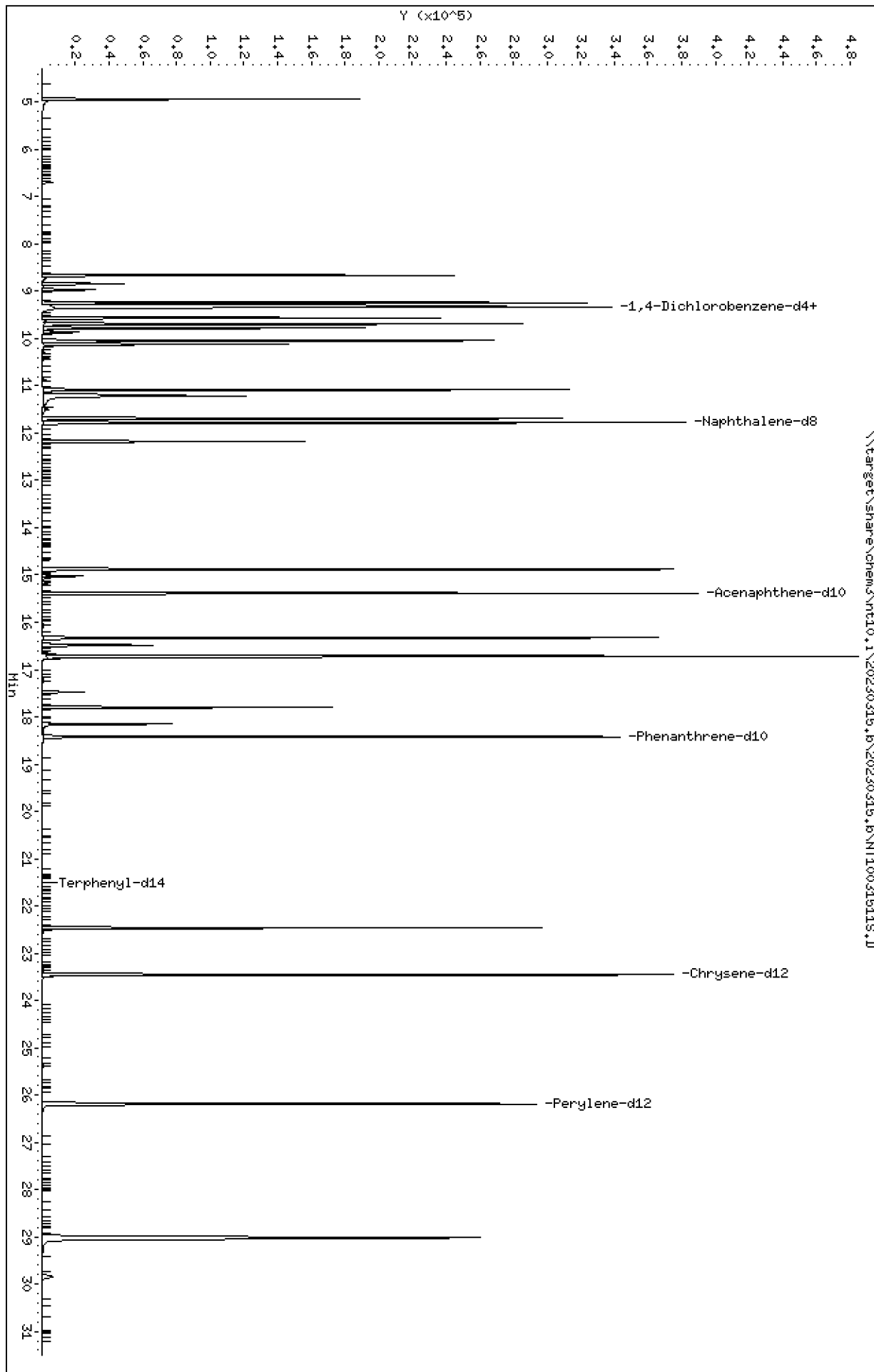
| ANALYTE                | EXPECTED<br>(ug/mL) | FOUND<br>(ug/mL) | % DRIFT | QC LIMIT |
|------------------------|---------------------|------------------|---------|----------|
| 1,4-Dichlorobenzene    | 5.0000              | 4.8              | -3.2    | 20.00    |
| 1,2-Dichlorobenzene    | 5.0000              | 4.7              | -6.4    | 20.00    |
| Benzyl Alcohol         | 5.0000              | 5.2              | 3.6     | 20.00    |
| Benzoic acid           | 10.000              | 6.7              | -32.5 * | 20.00    |
| 2,4-Dimethylphenol     | 5.0000              | 3.7              | -26.8 * | 20.00    |
| 1,2,4-Trichlorobenzene | 5.0000              | 4.4              | -11.1   | 20.00    |
| N-Nitrosodiphenylamine | 5.0000              | 5.1              | 1.6     | 20.00    |
| Pentachlorophenol      | 5.0000              | 4.4              | -11.6   | 20.00    |
| 2-Fluorophenol         | 7.5000              | 0.00             |         |          |
| p-Terphenyl-d14        | 5.0000              | 0.00154          | -100    |          |

\* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT100315115.D  
Date: 16-MAR-2023 02:16  
Client ID:  
Sample Info: SLC0238-SCV1  
Volume Injected (uL): 1.0  
Column phase: ZB-5msi

Instrument: nt10.1  
Operator: JGR  
Column diameter: 0.25

\\target\share\chem3\nt10.1\20230315.1\20230315.1\NT100315115.D



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

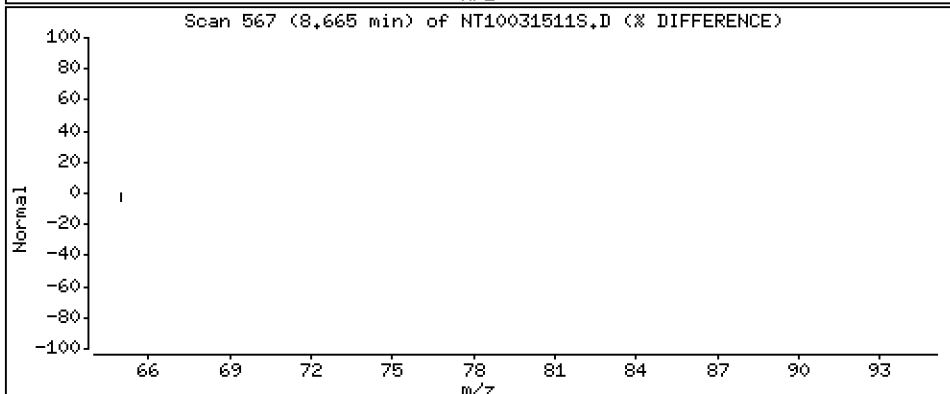
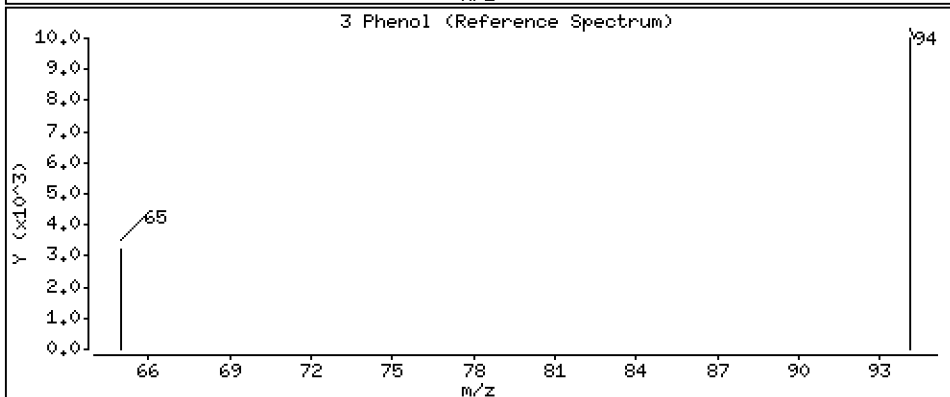
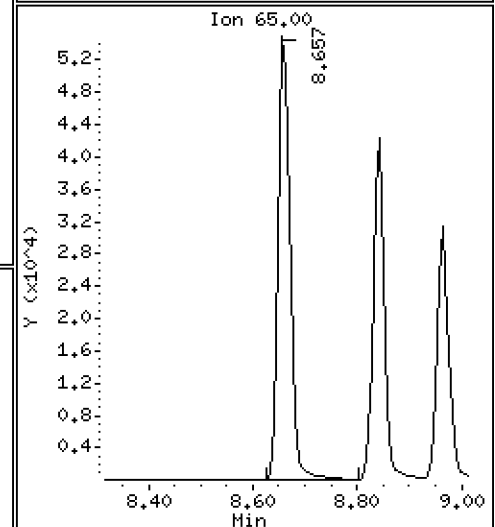
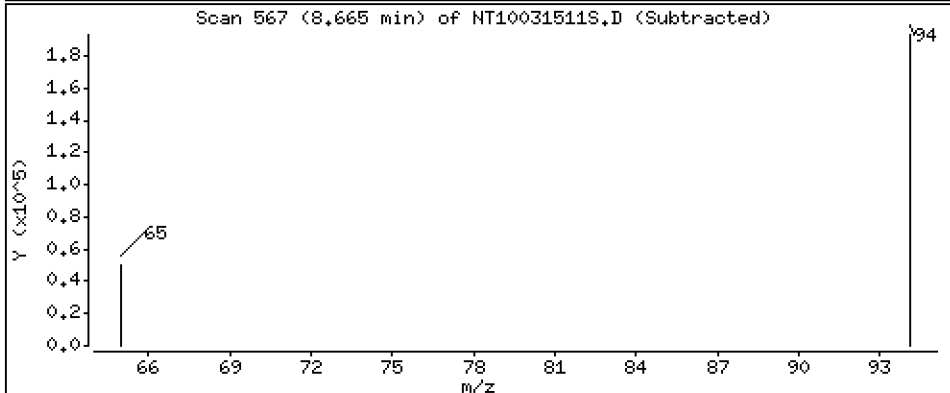
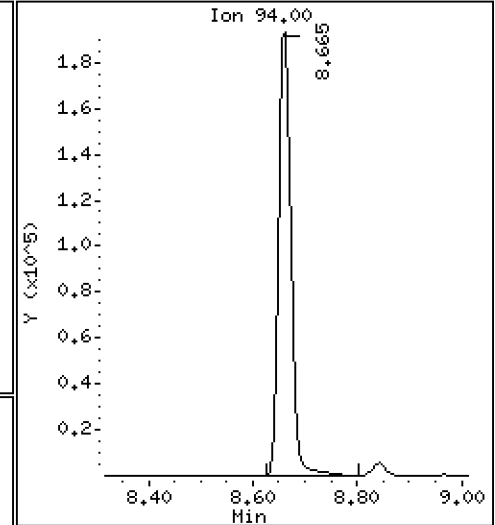
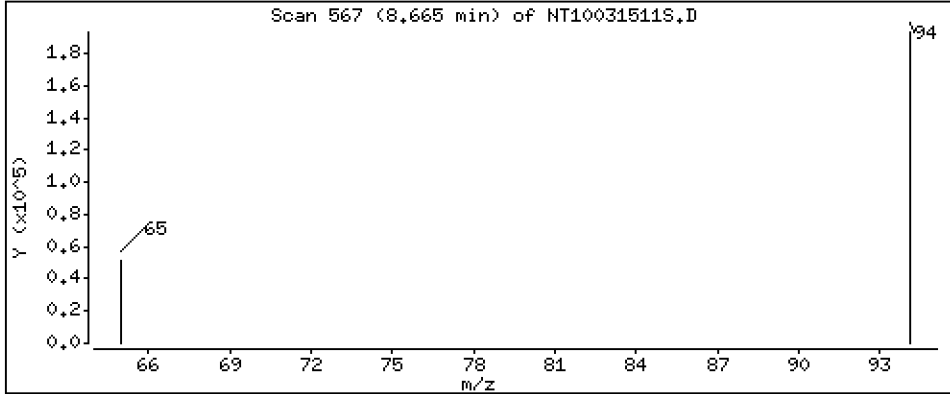
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 4.373 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

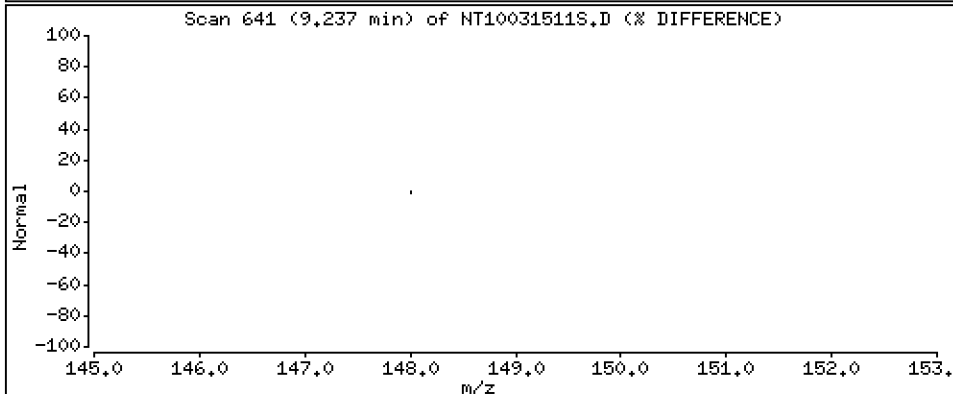
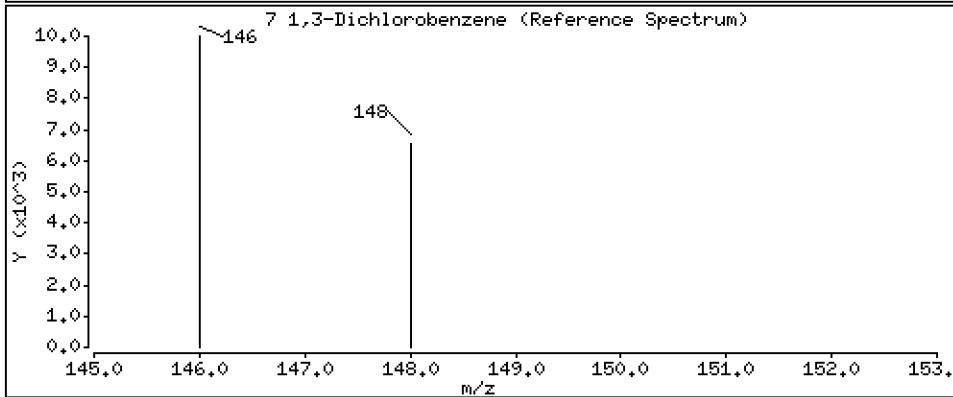
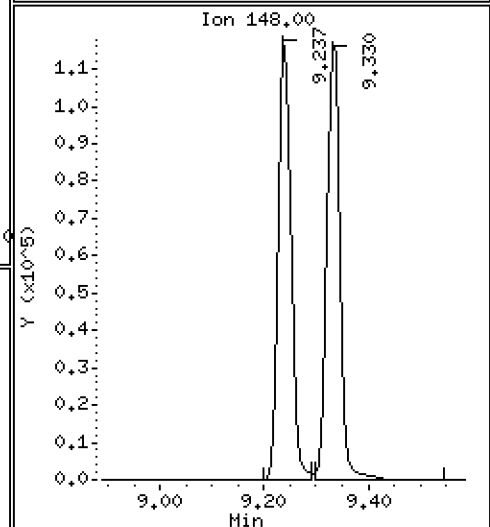
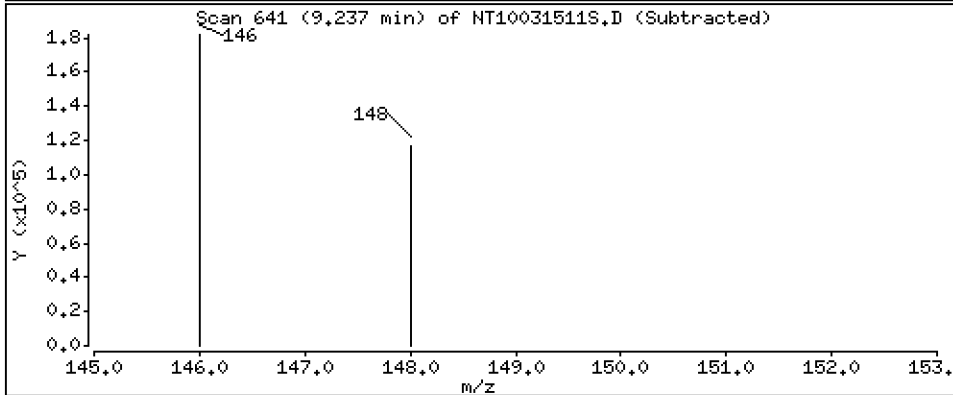
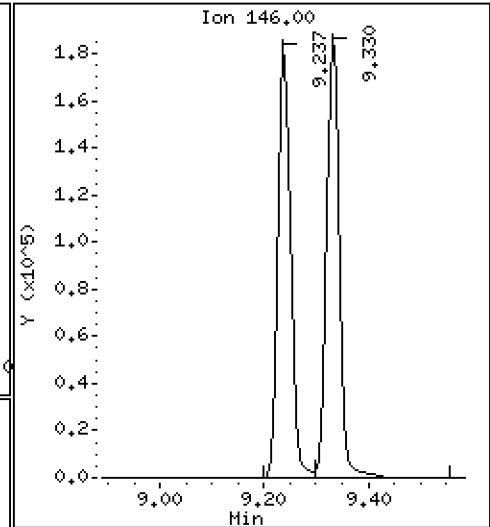
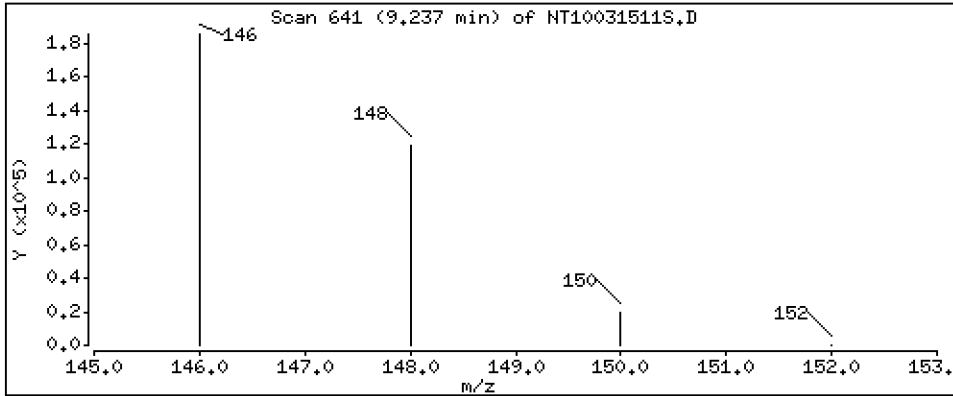
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 4.643 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

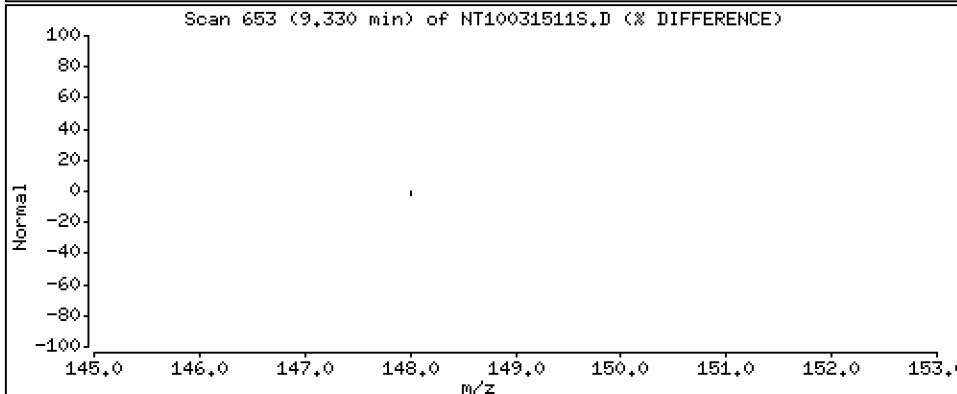
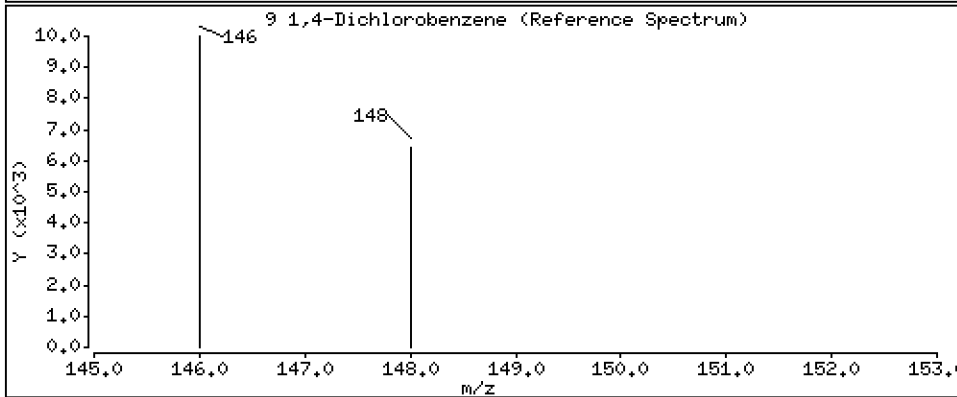
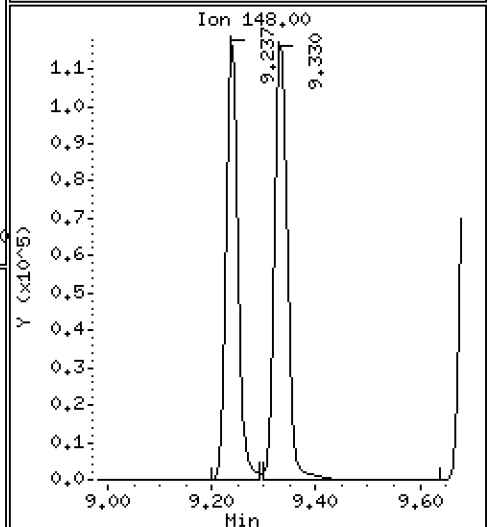
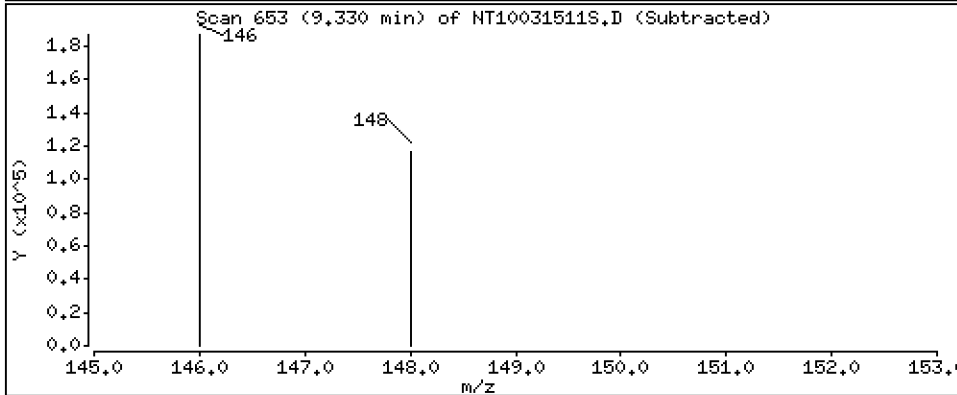
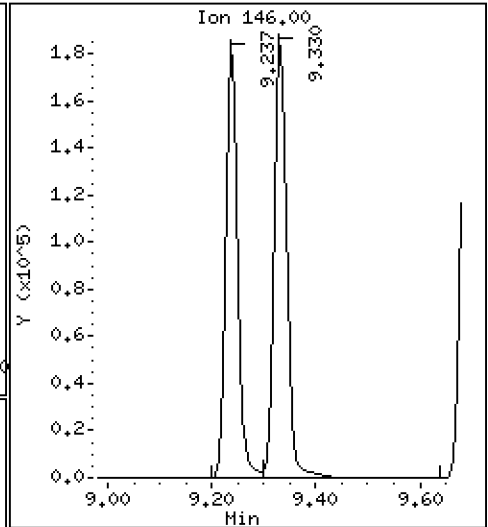
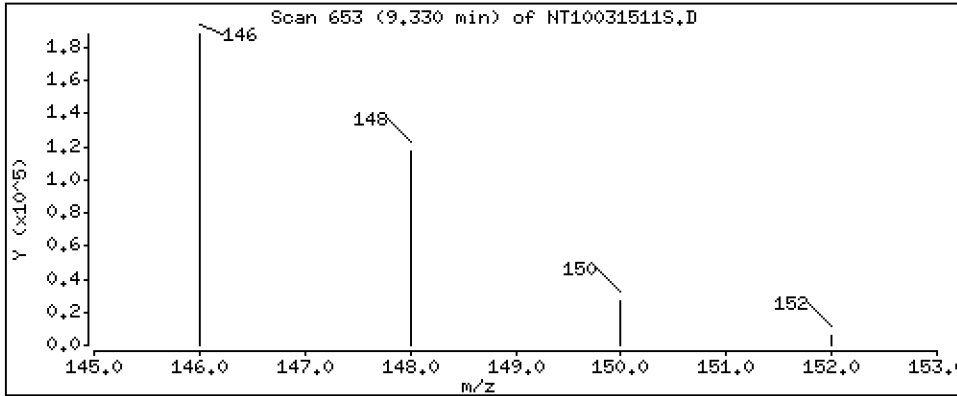
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 4.838 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

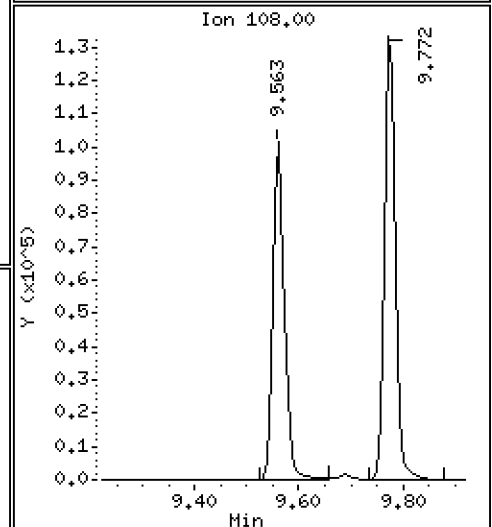
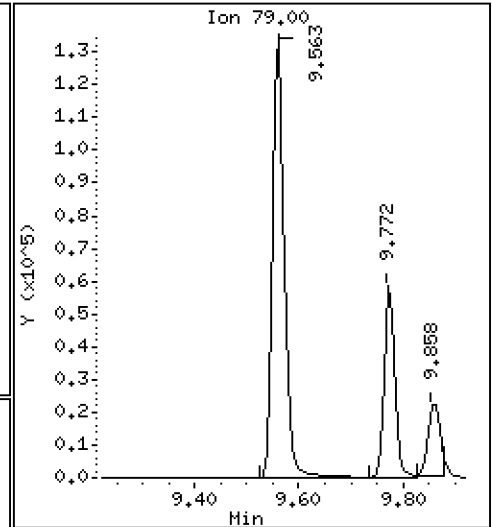
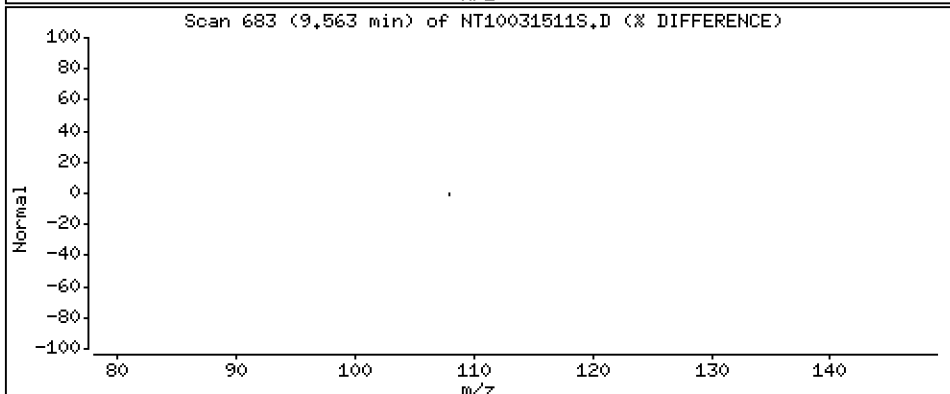
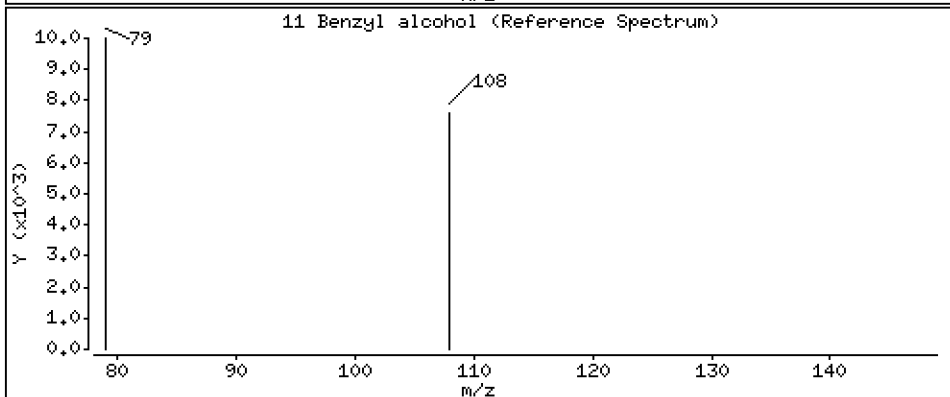
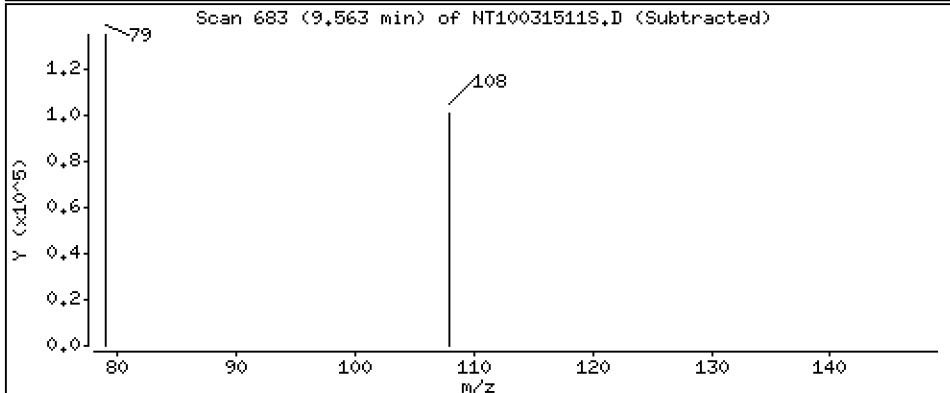
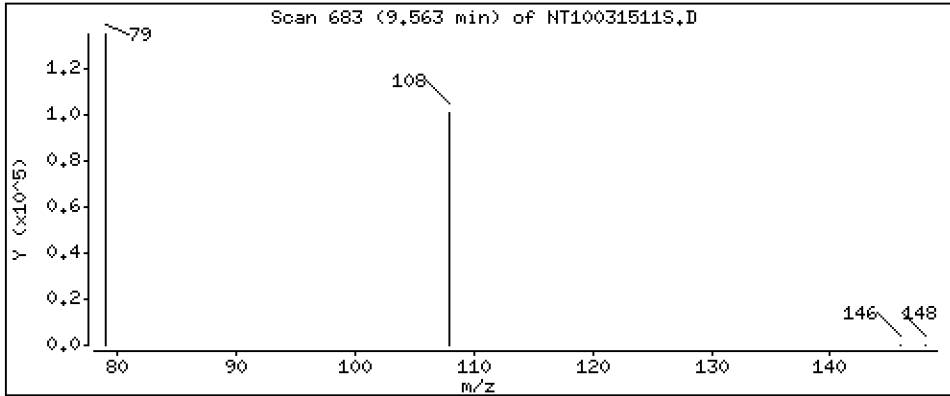
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 5.181 ug/L





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

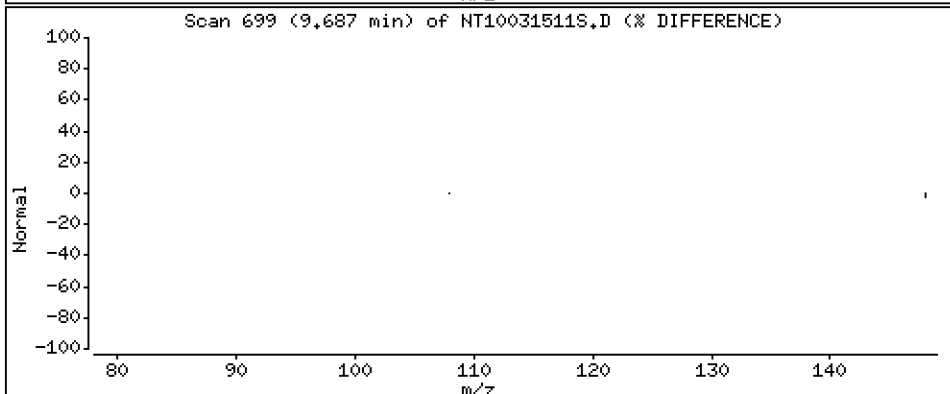
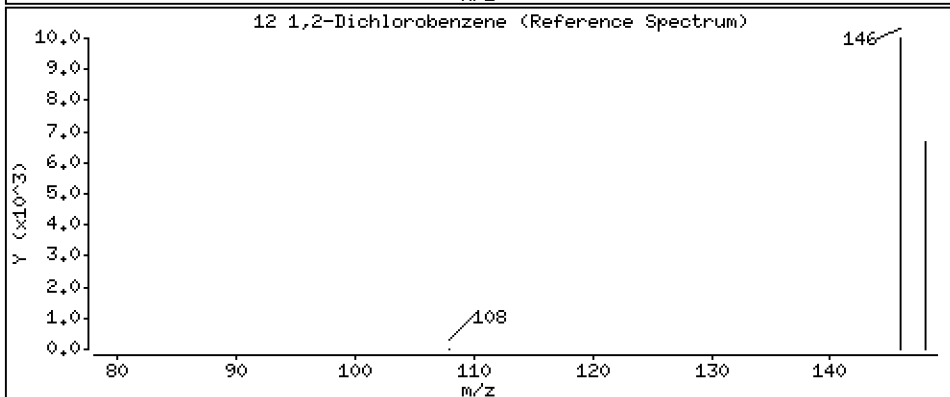
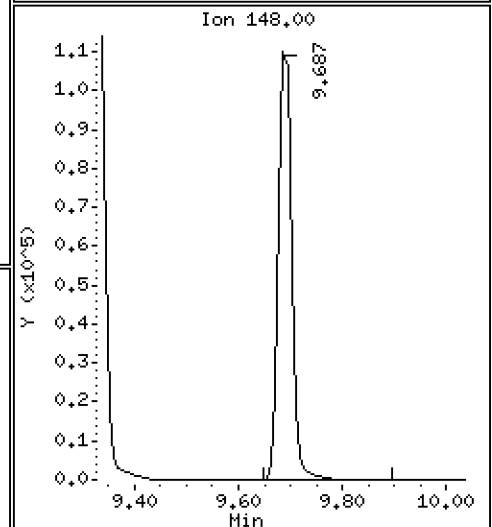
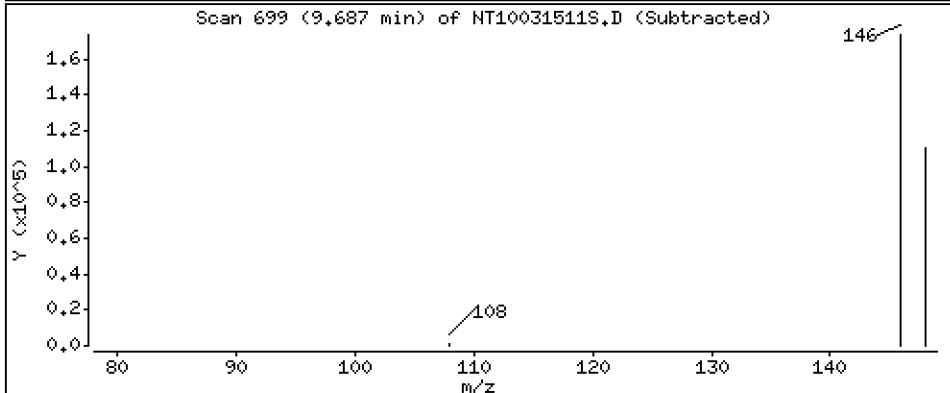
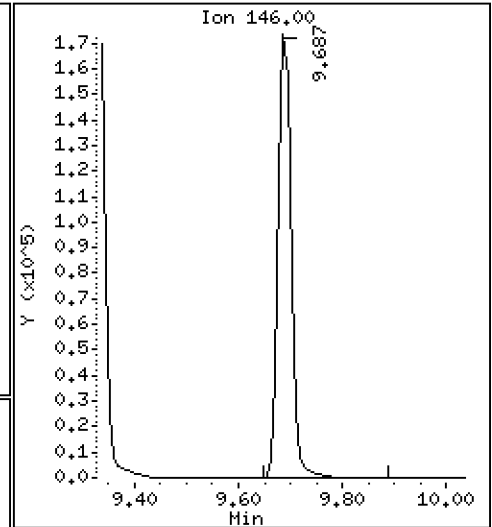
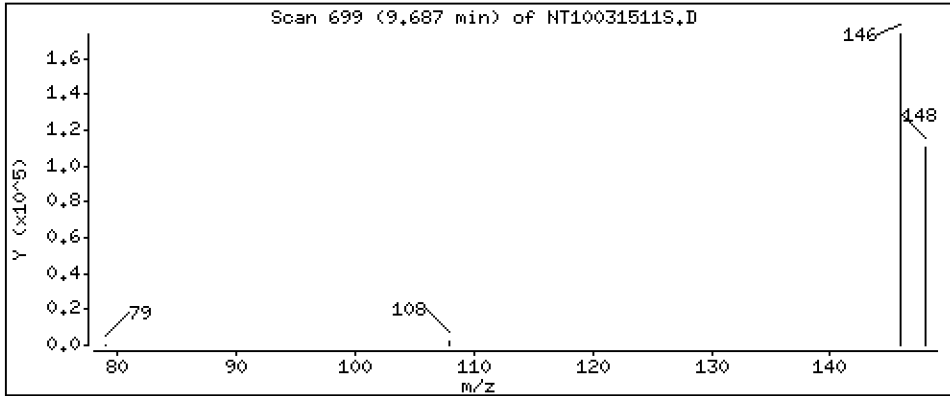
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 4.679 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

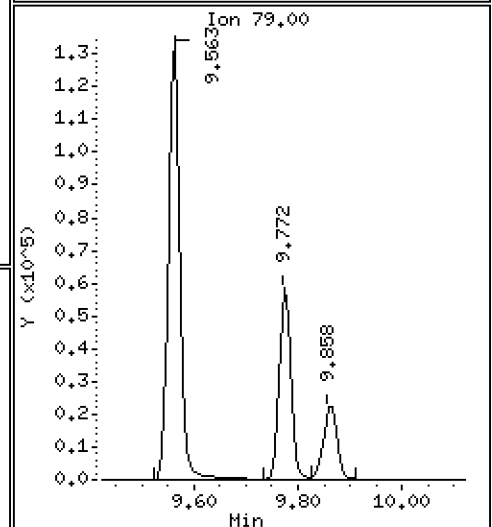
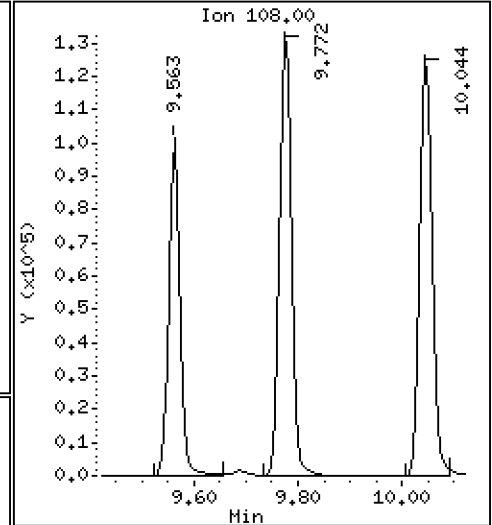
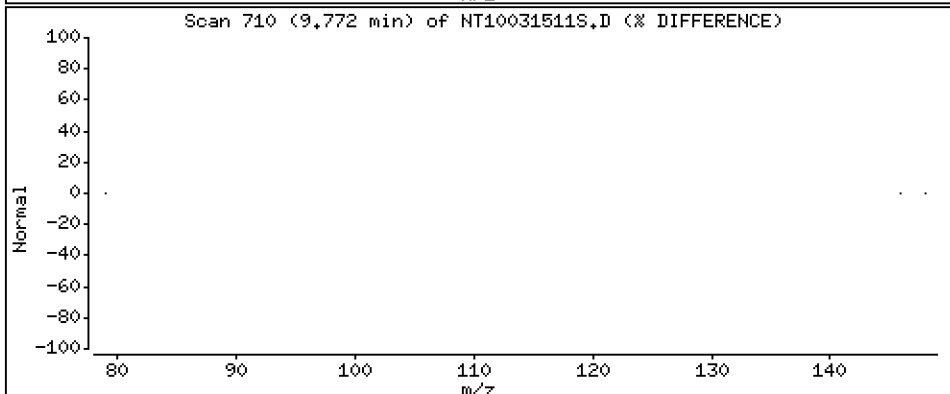
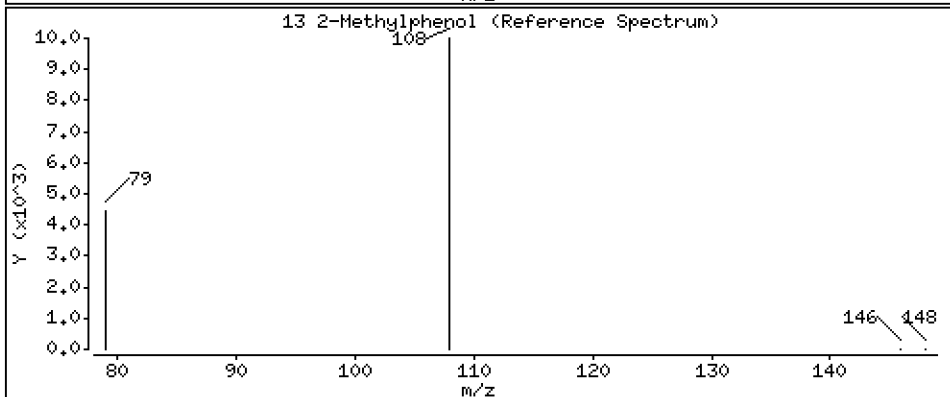
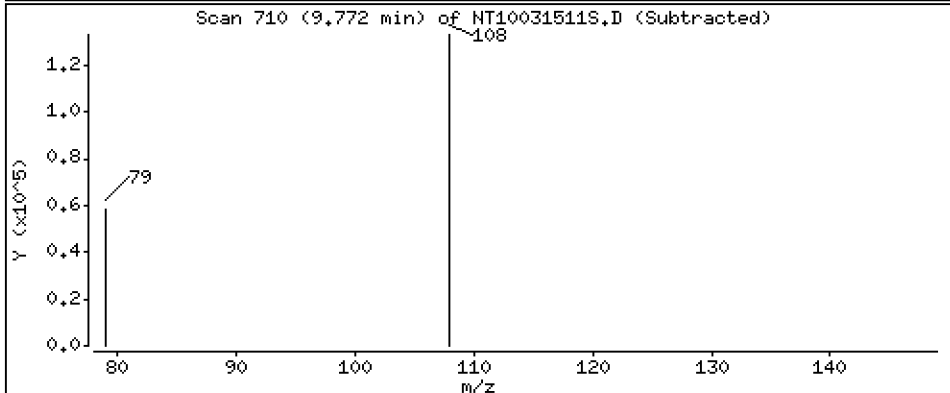
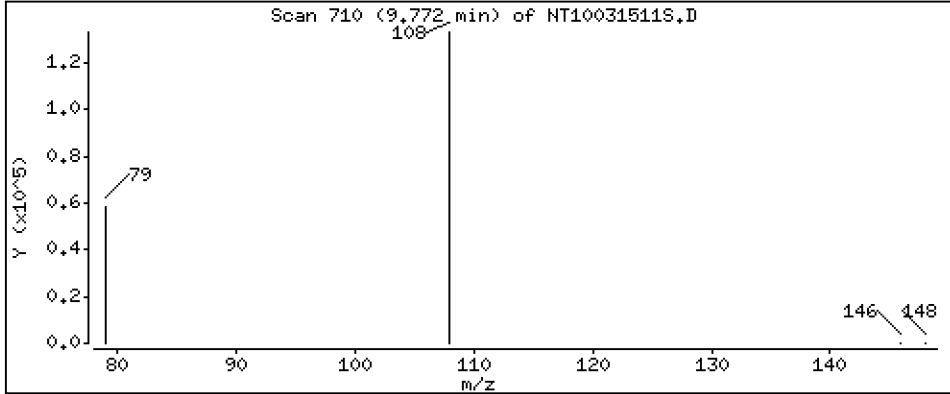
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.197 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

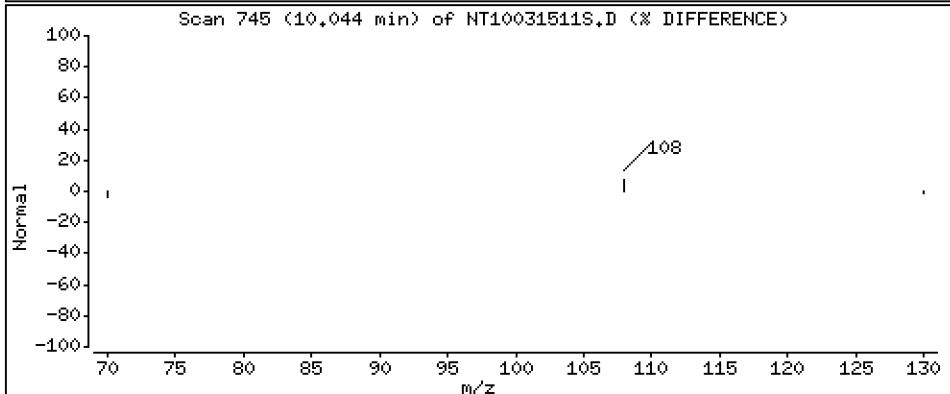
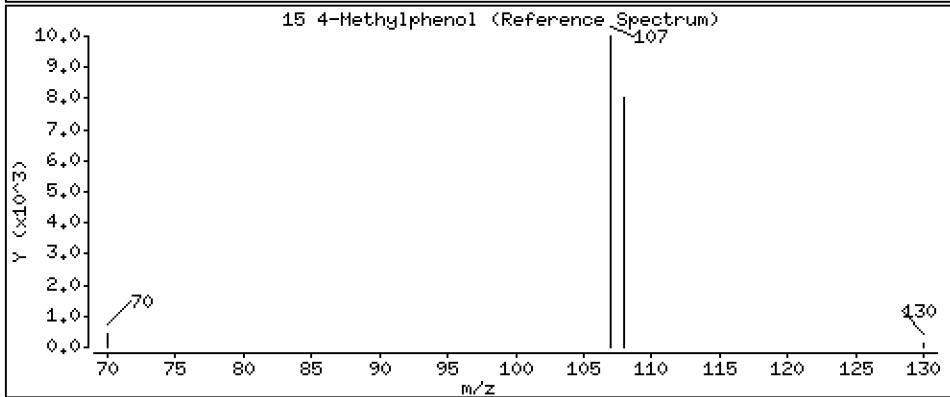
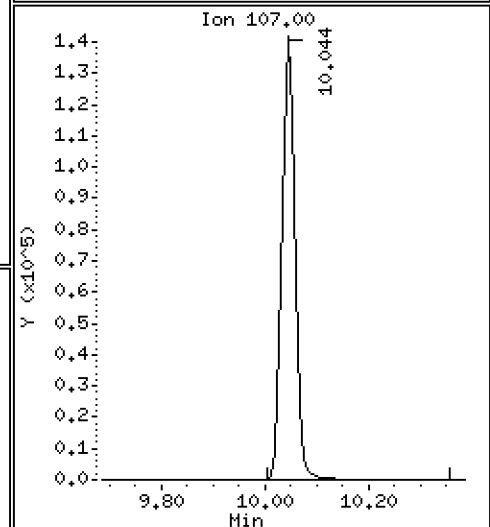
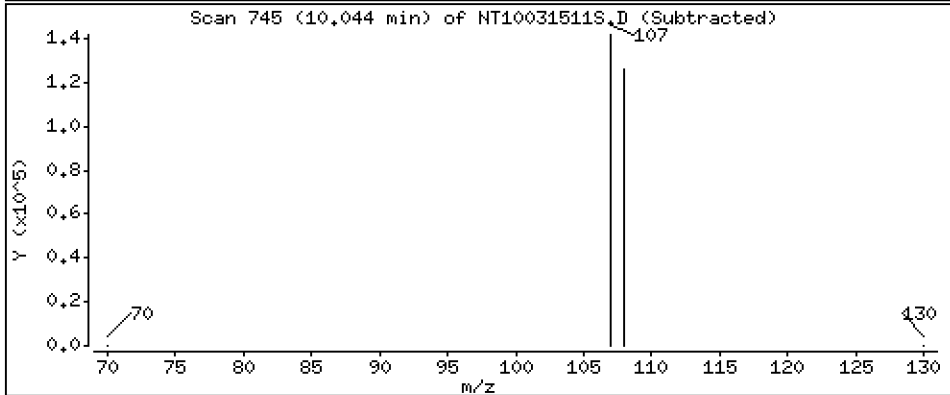
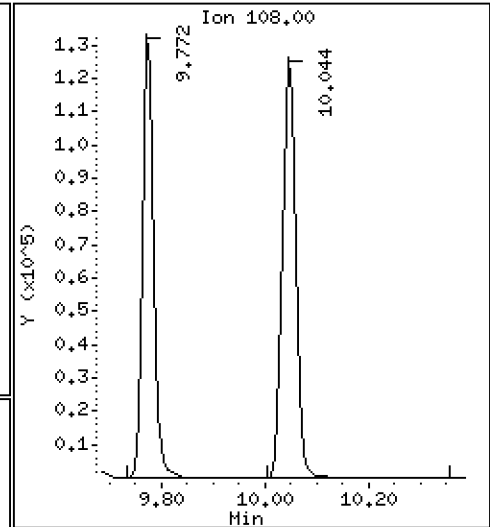
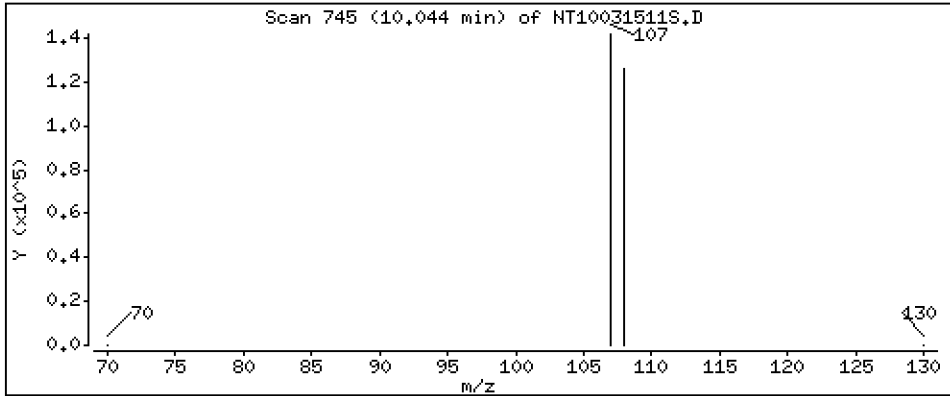
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 4.463 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

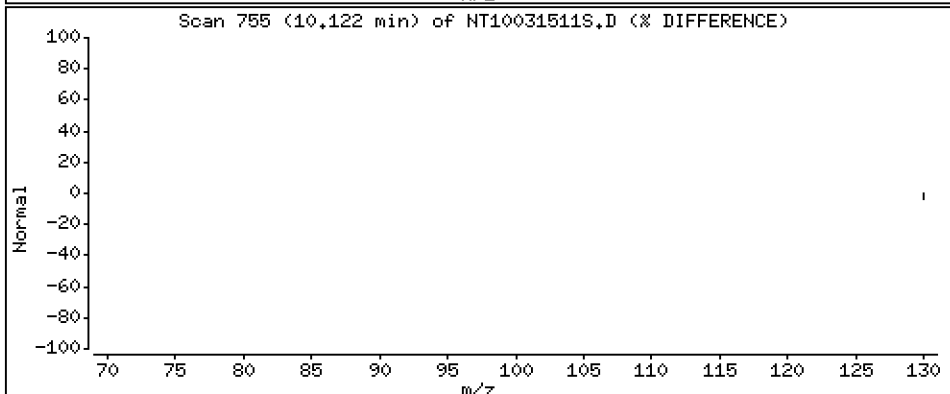
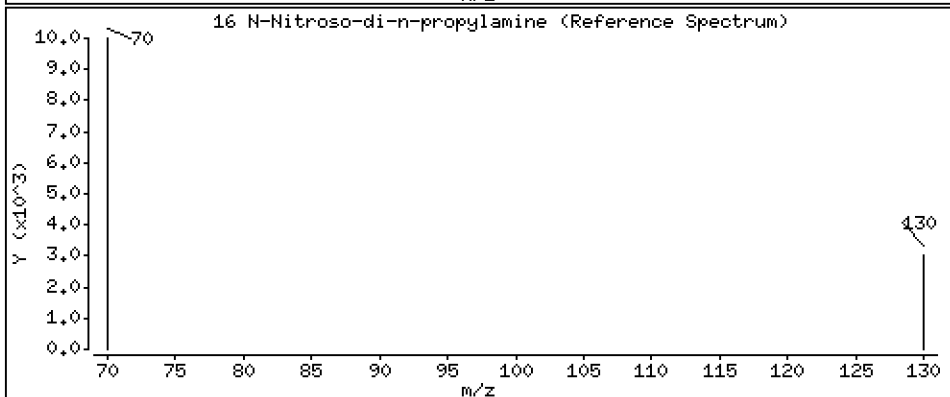
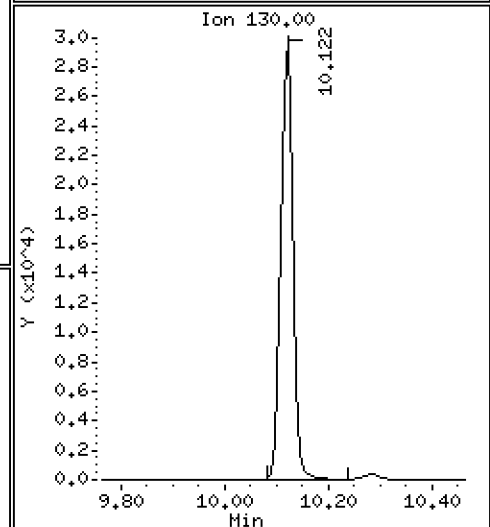
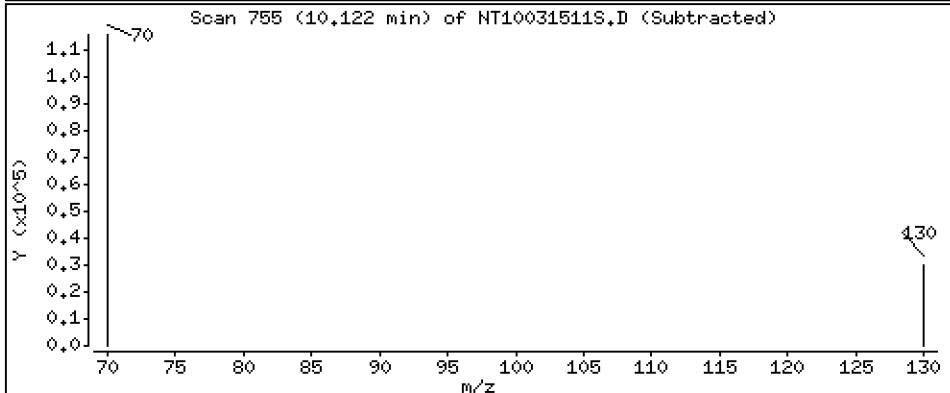
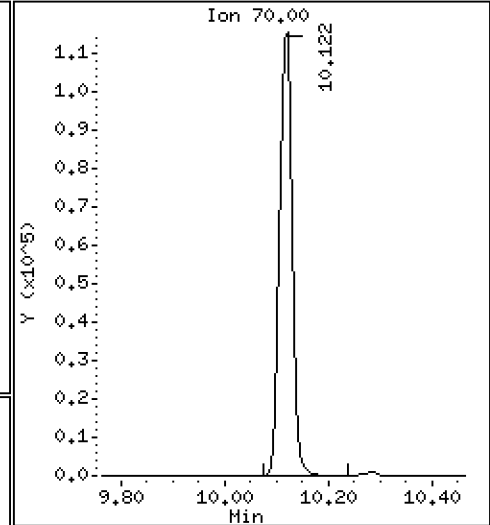
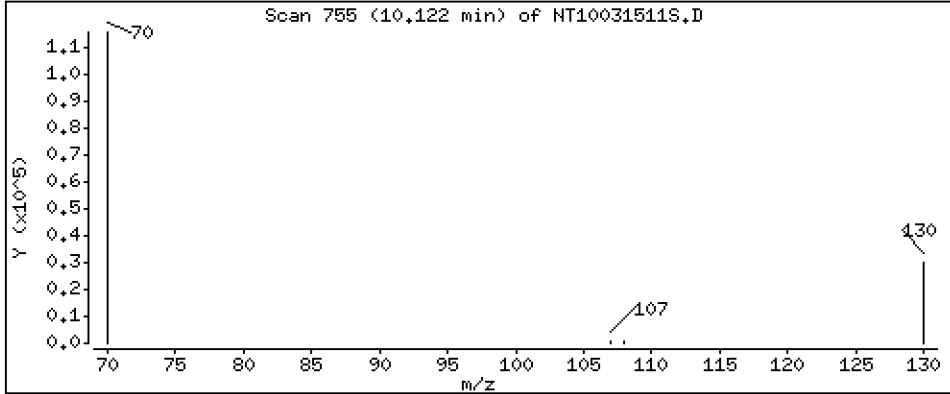
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,282 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

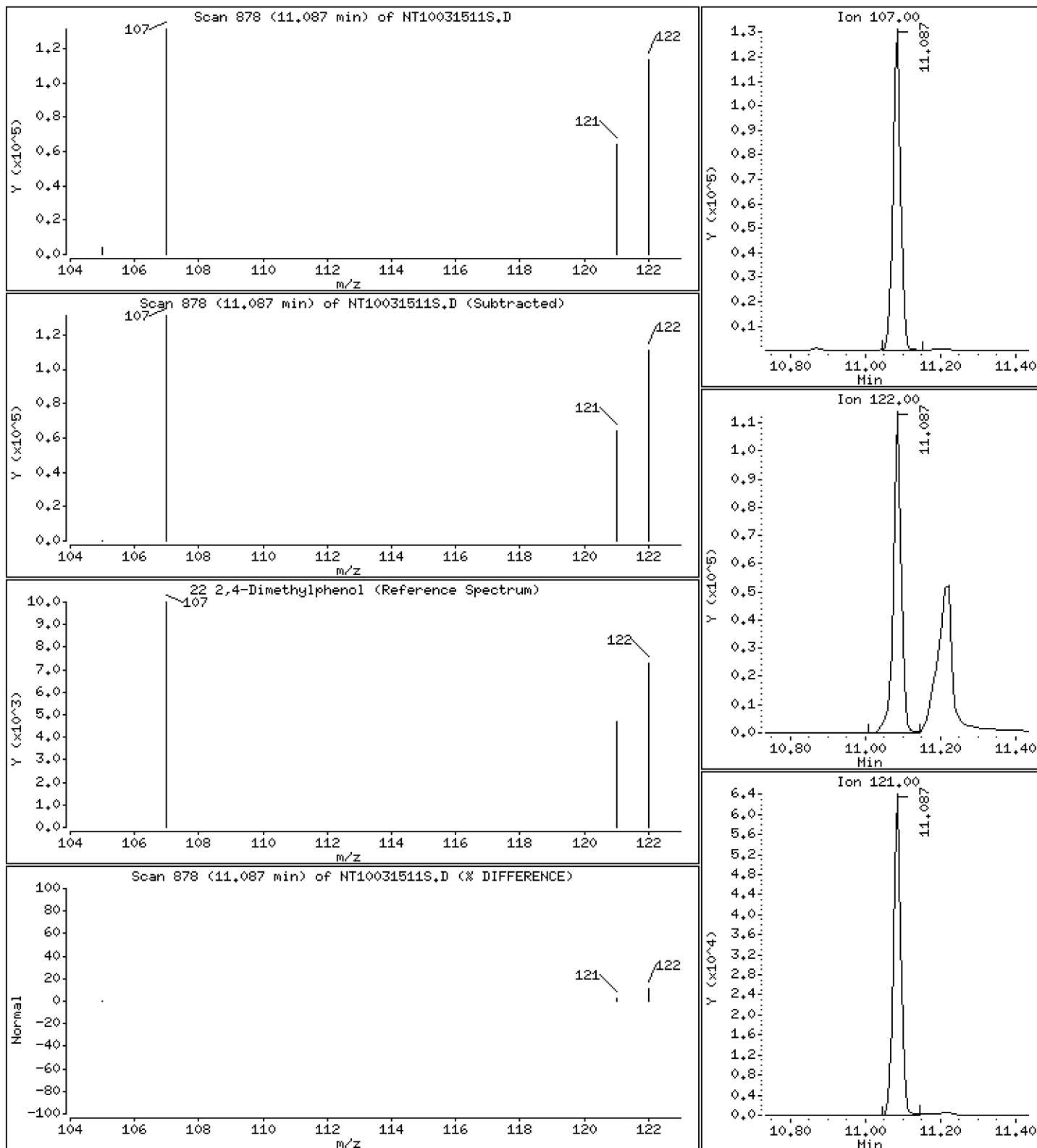
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 3,660 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

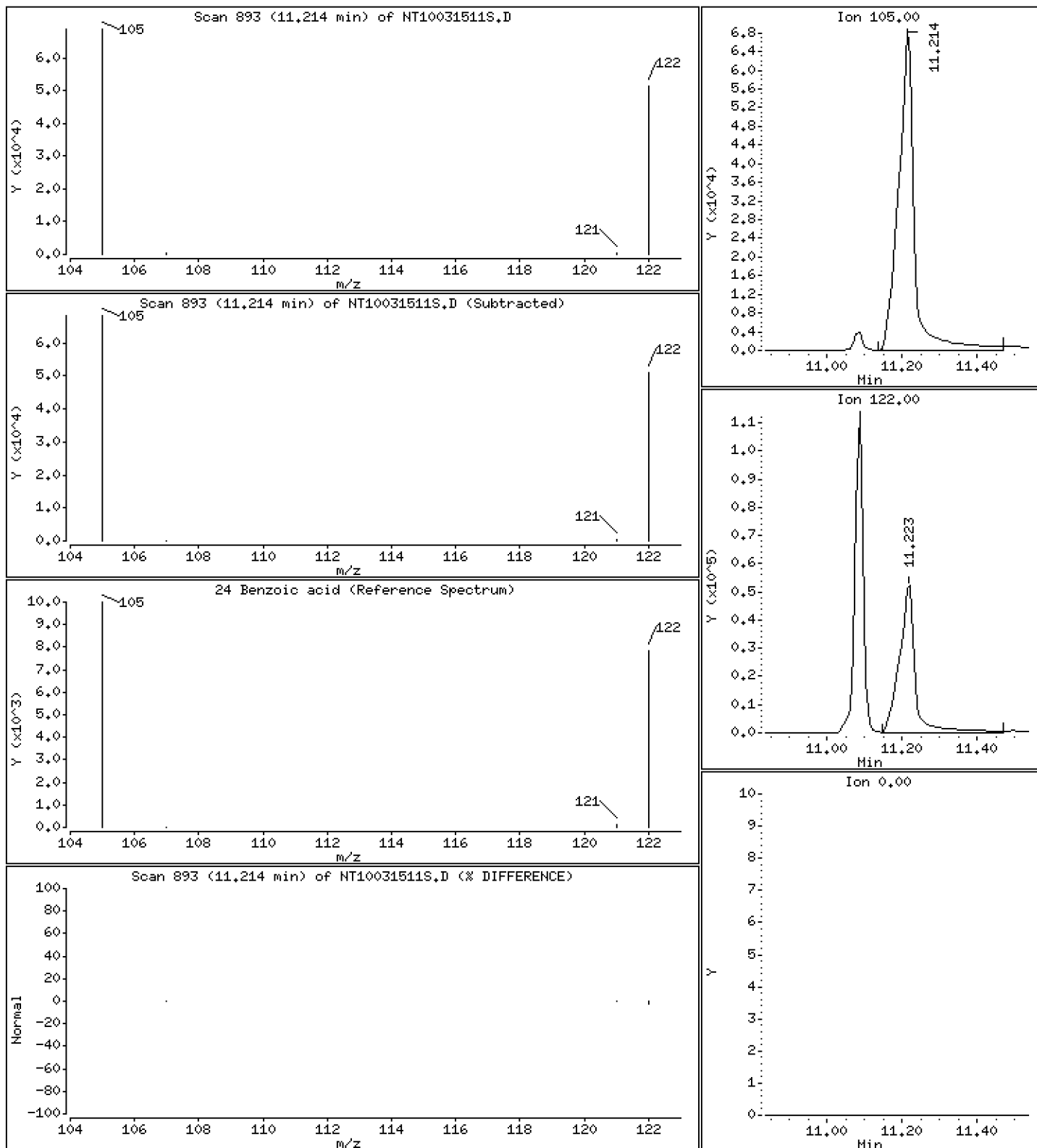
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 6,746 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

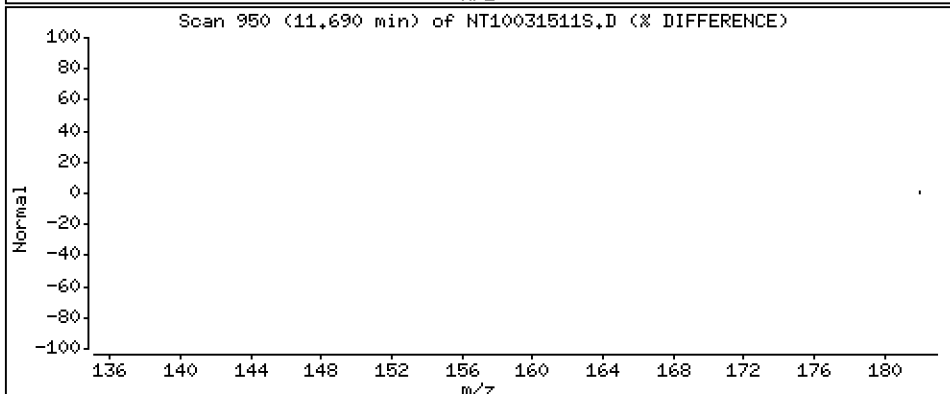
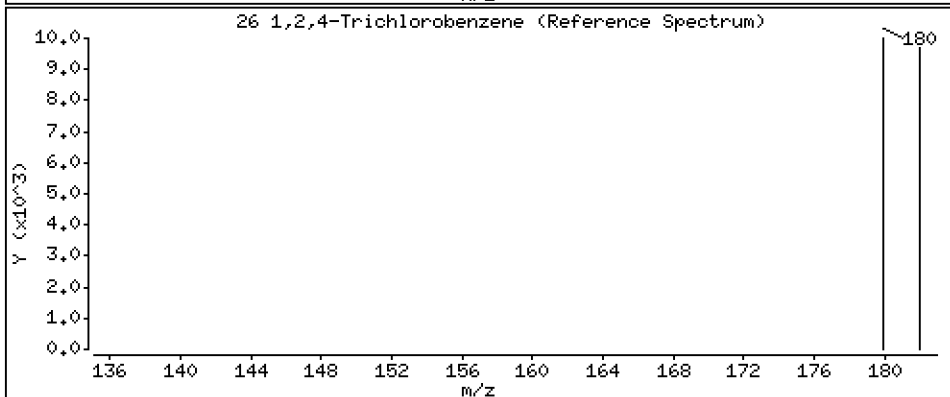
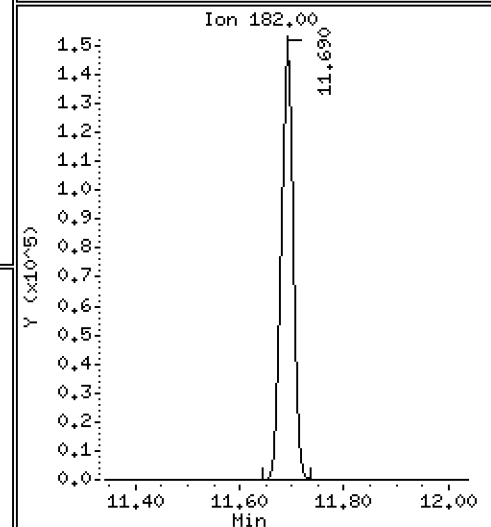
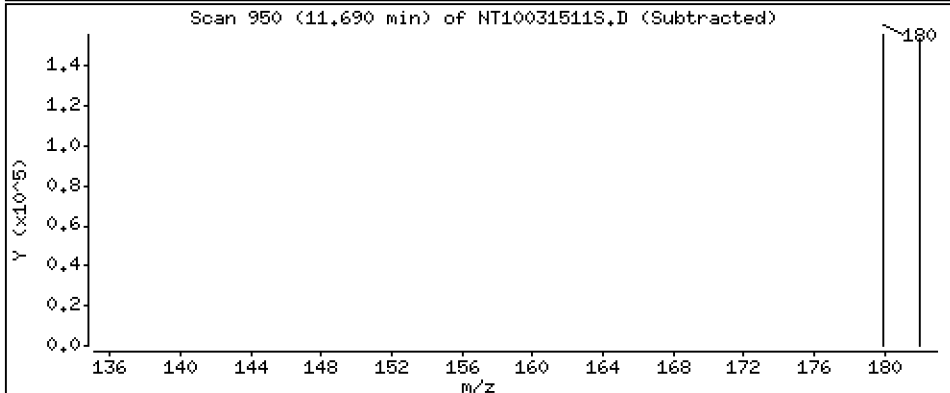
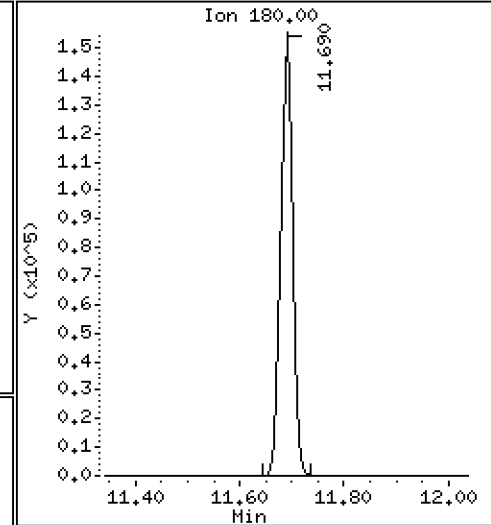
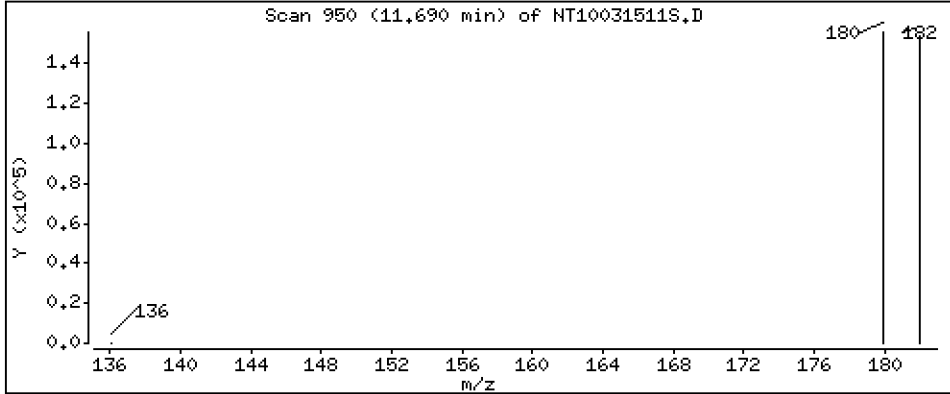
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,445 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

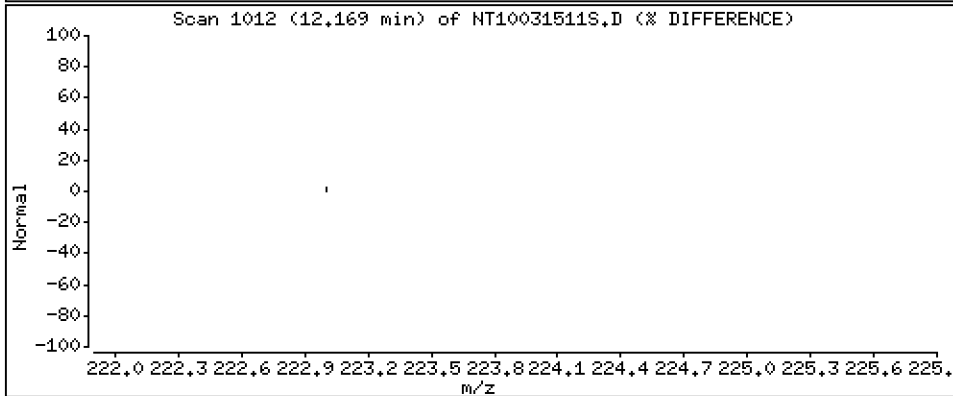
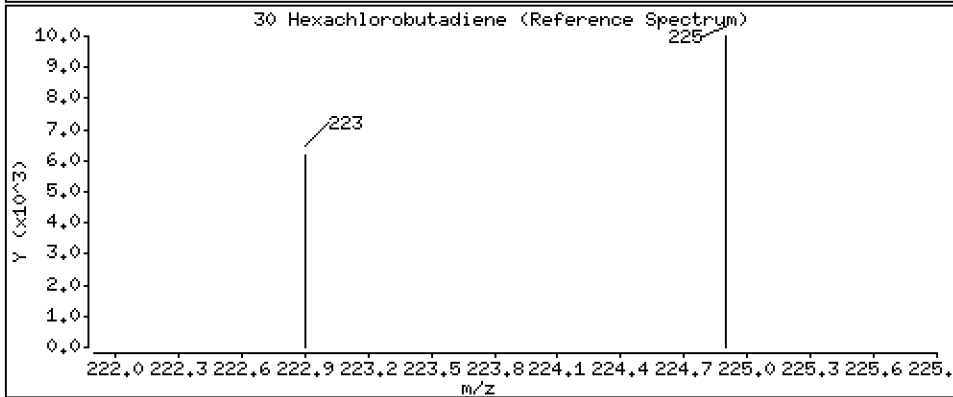
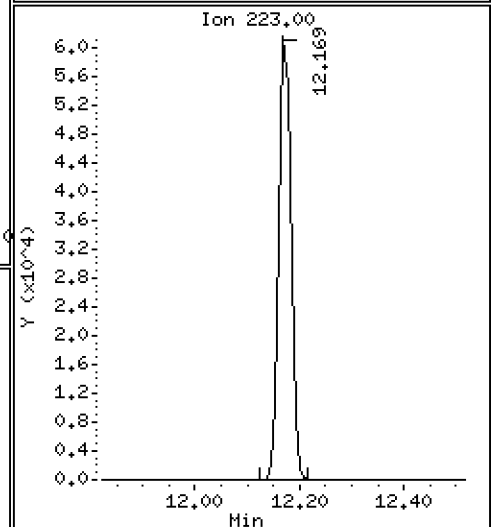
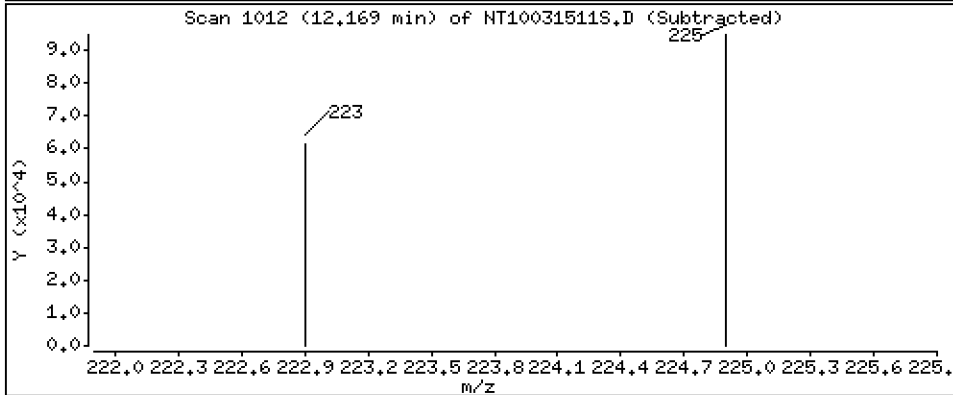
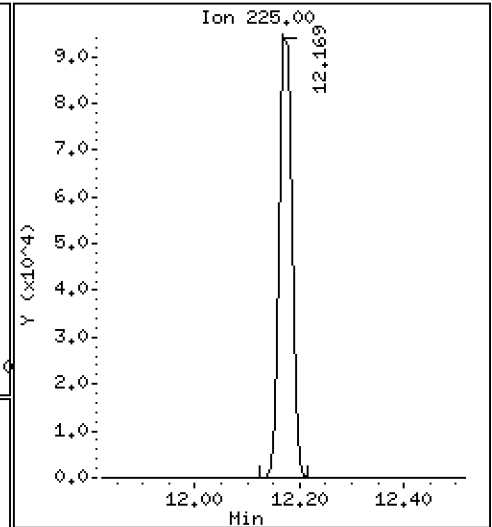
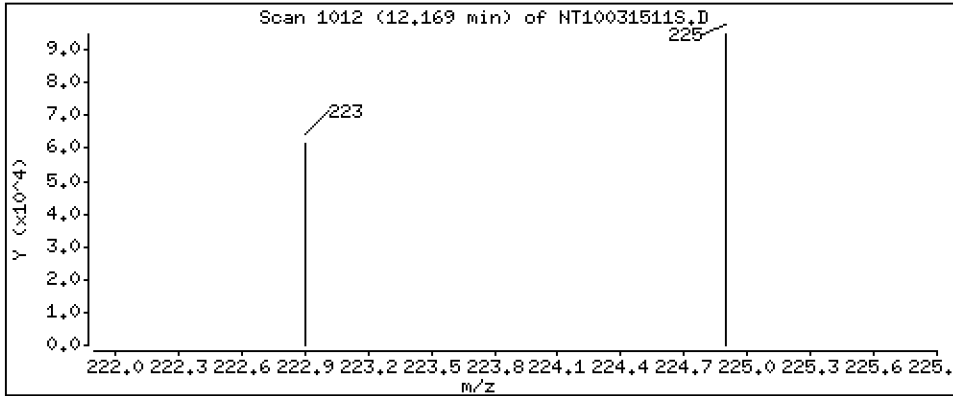
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,653 ug/L





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

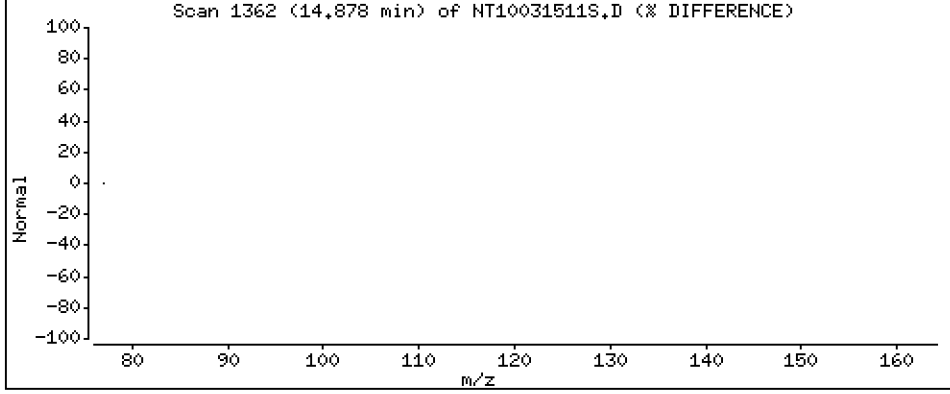
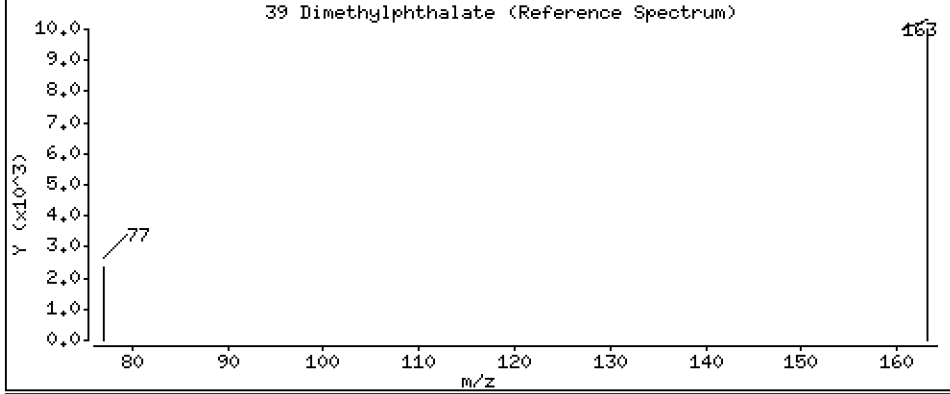
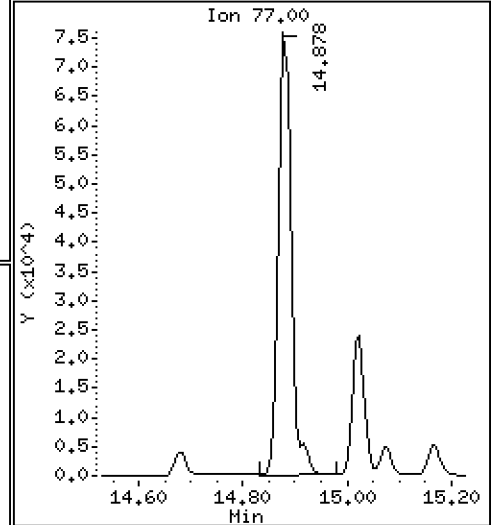
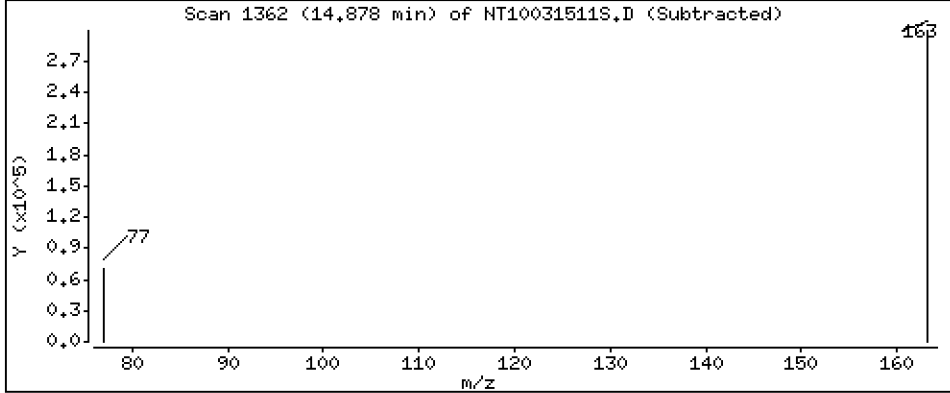
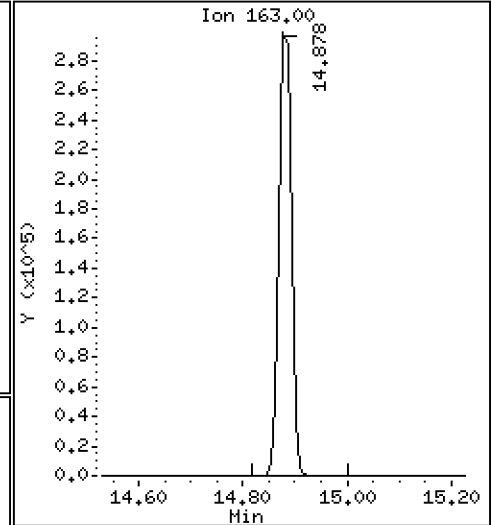
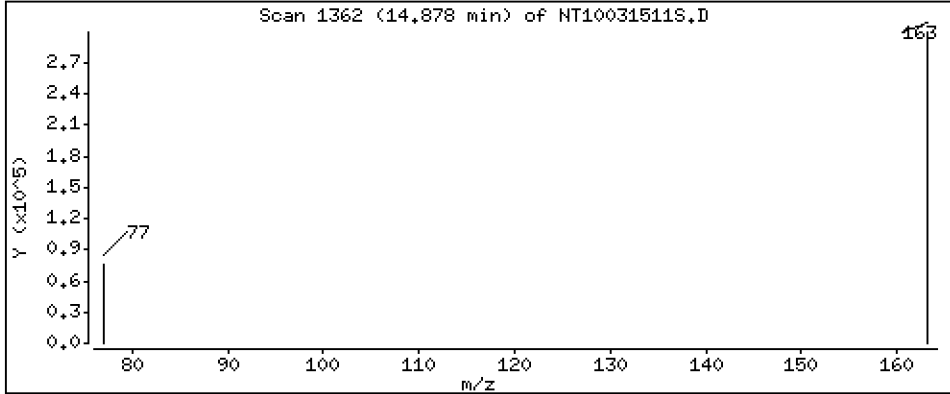
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,948 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

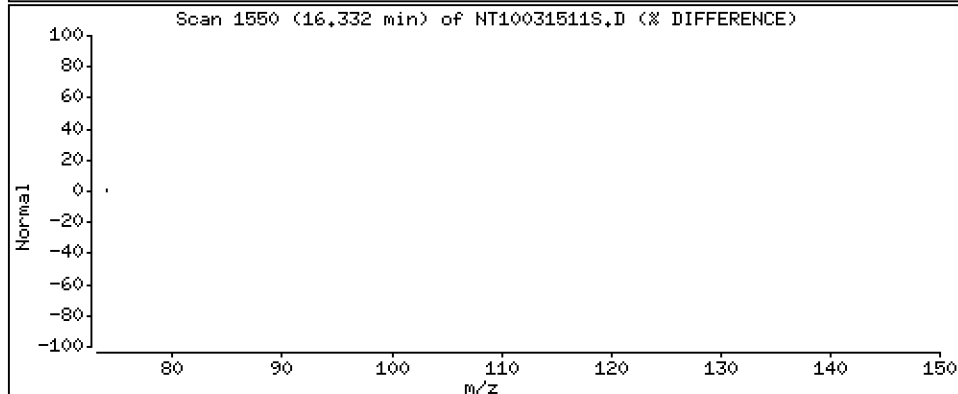
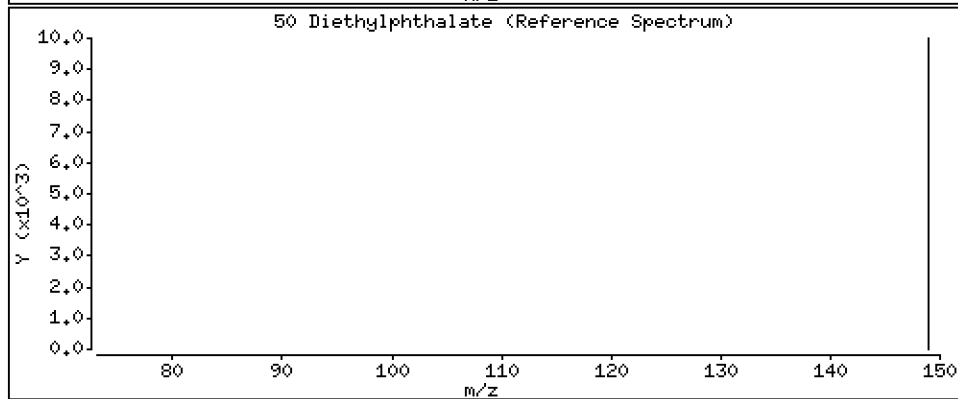
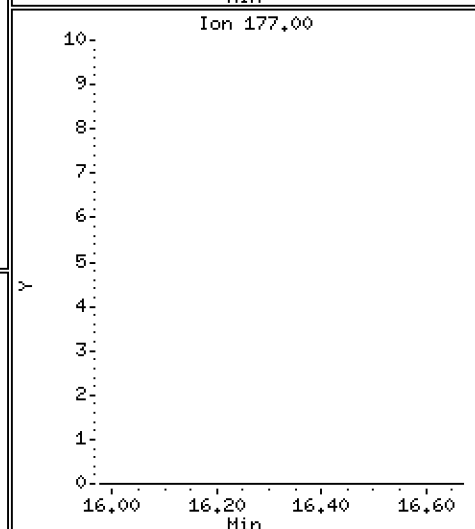
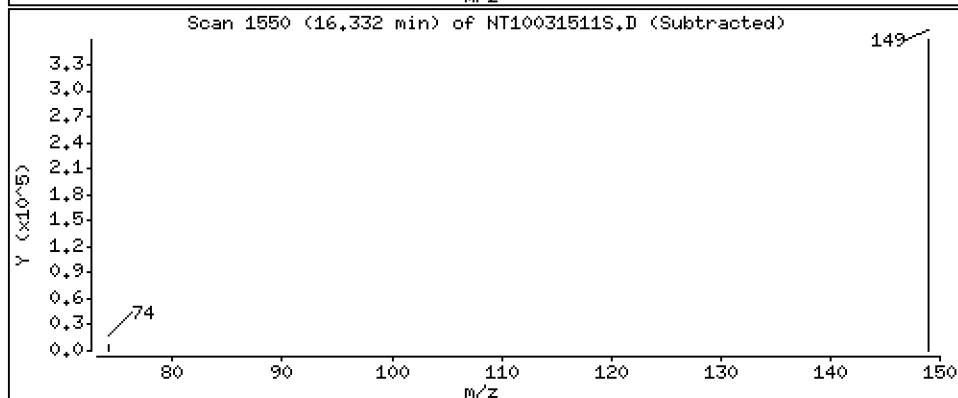
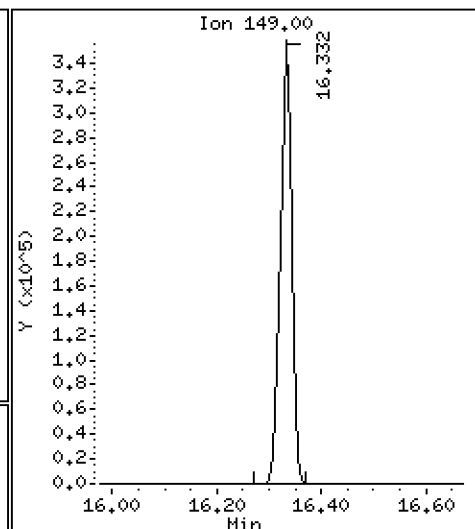
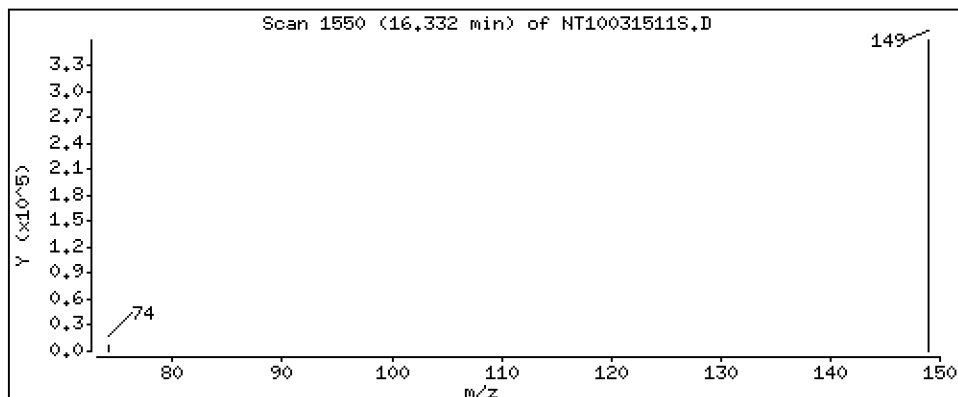
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 5.364 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

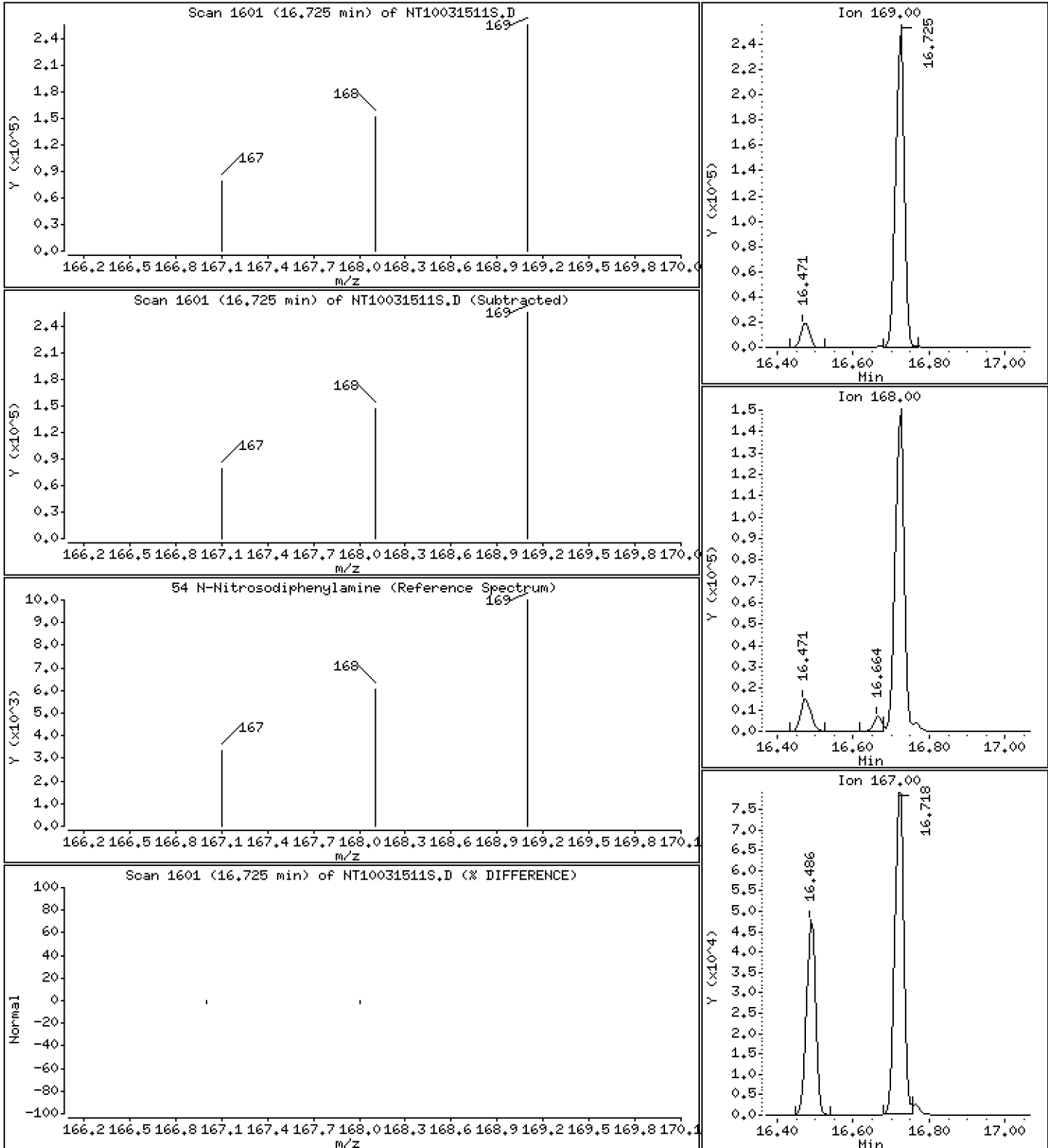
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 5.080 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

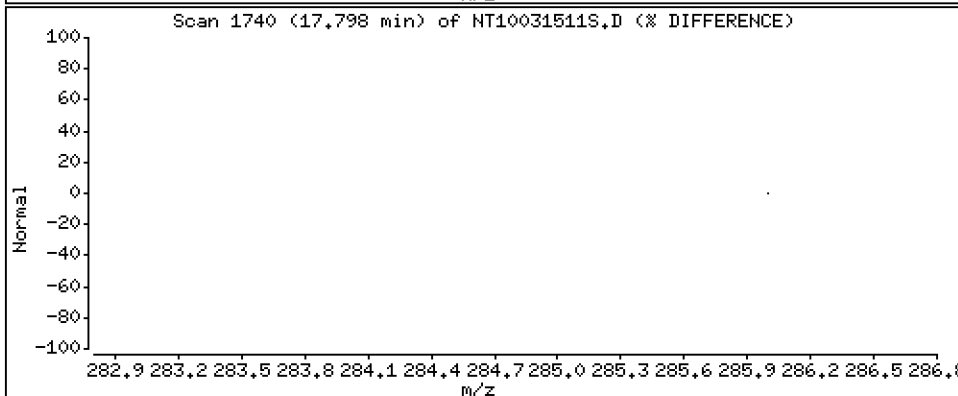
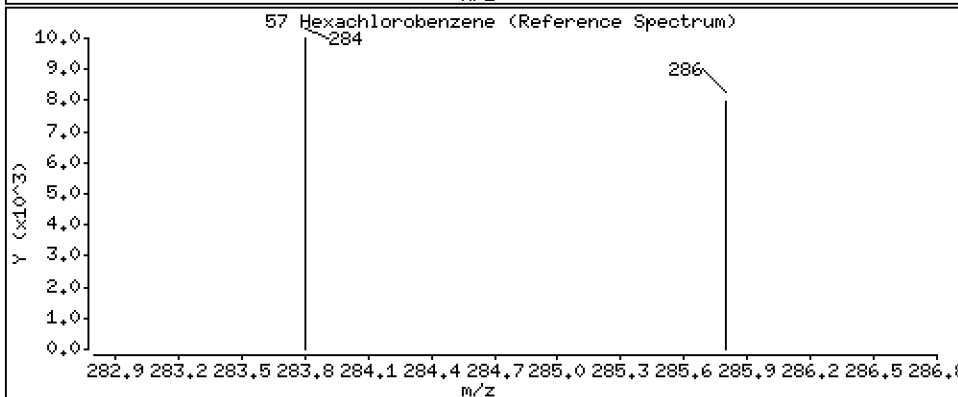
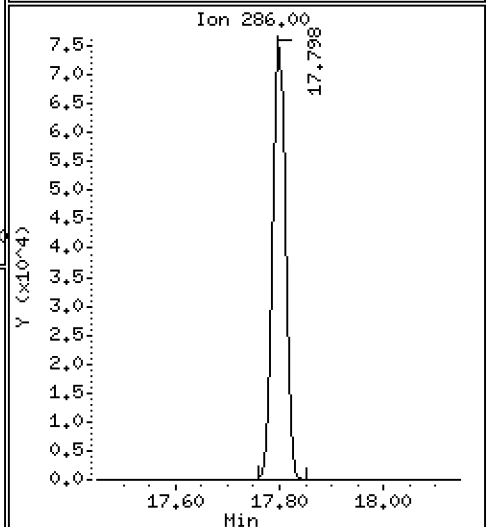
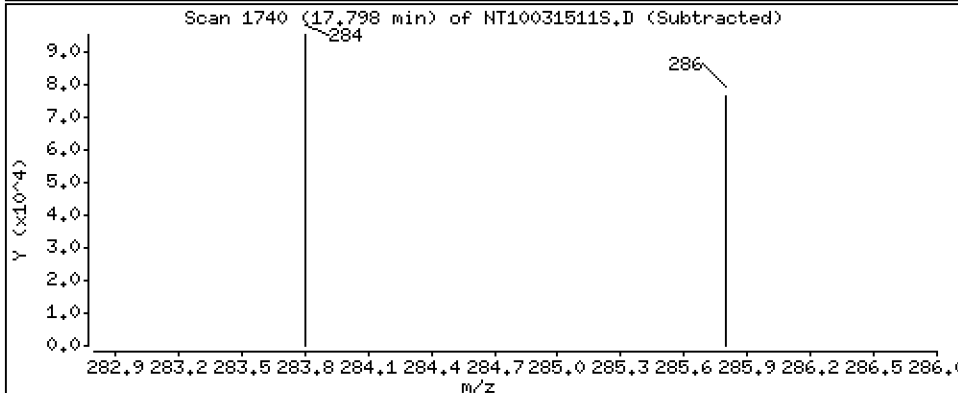
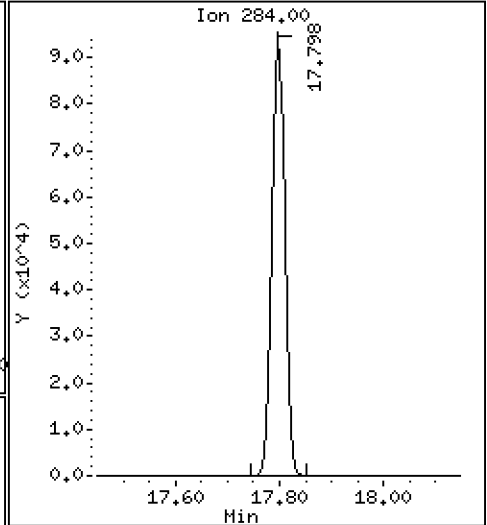
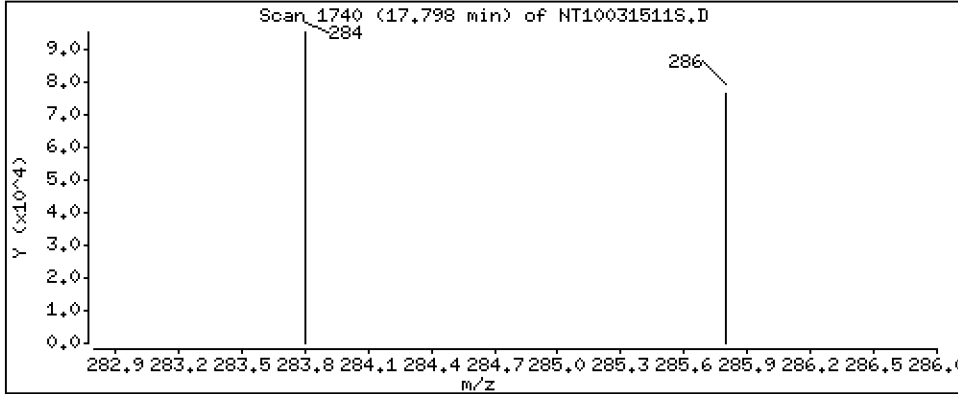
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,614 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

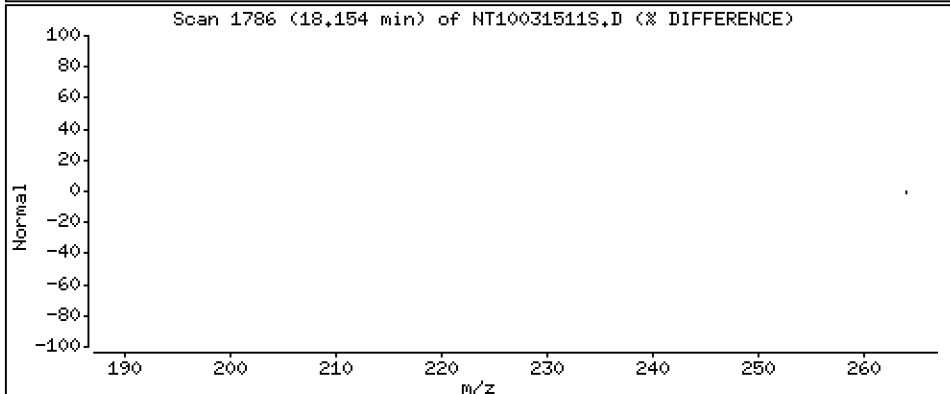
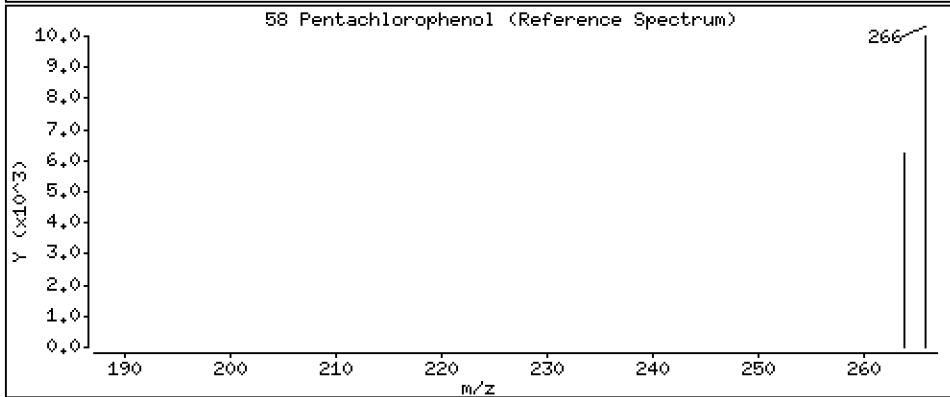
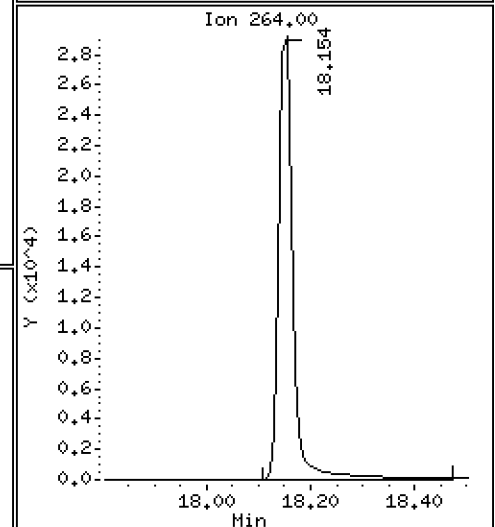
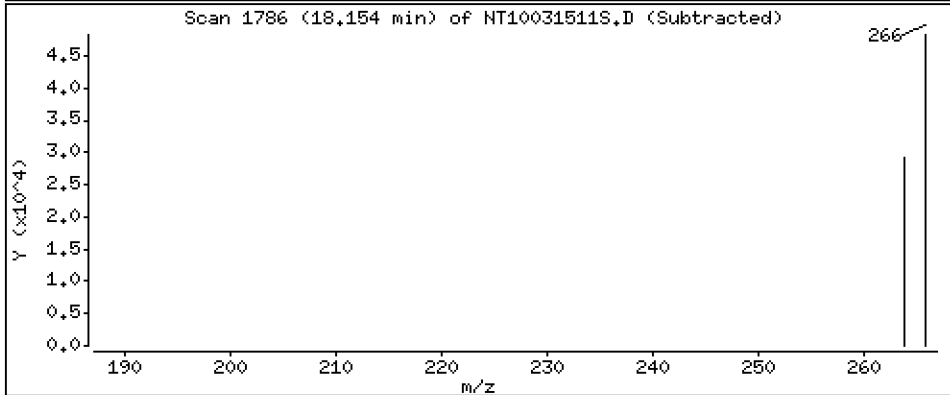
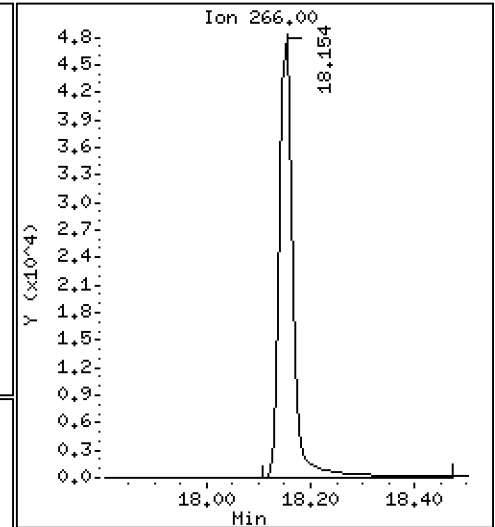
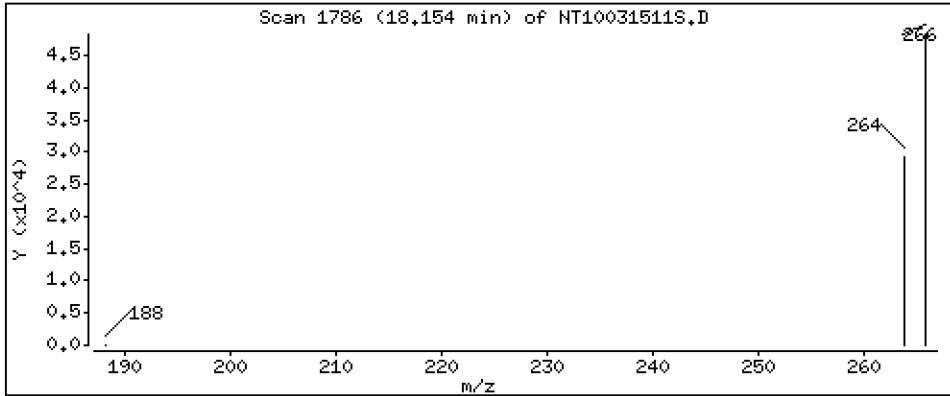
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 4,418 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

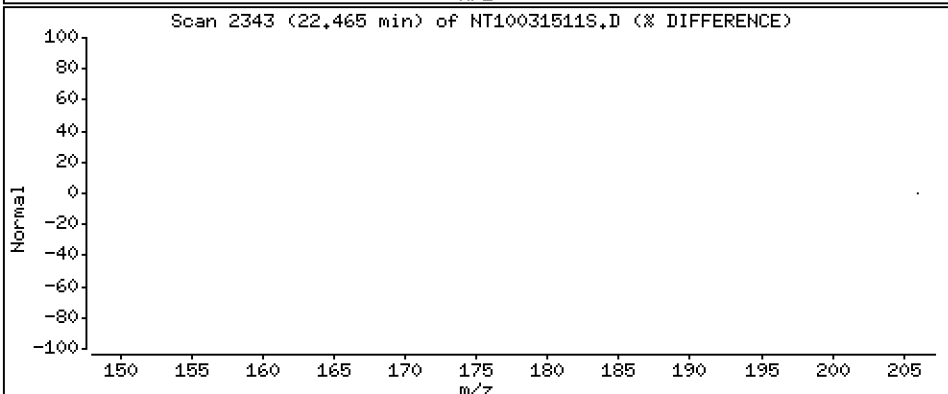
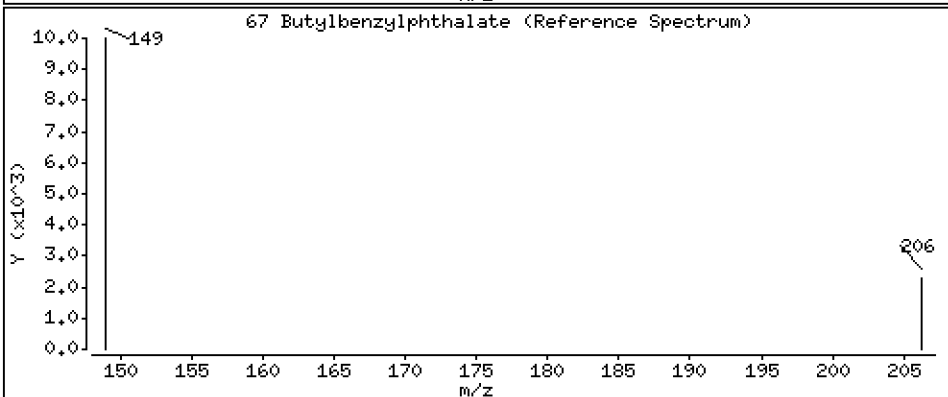
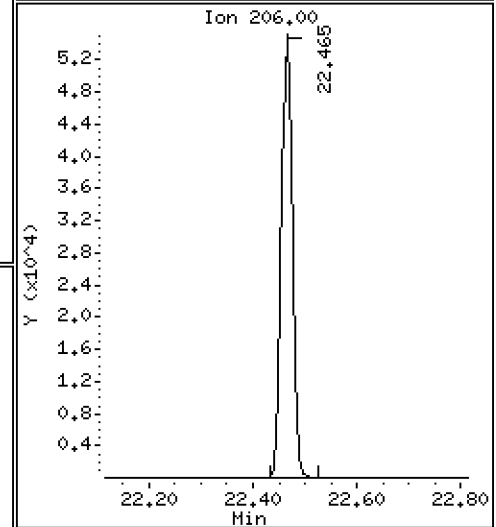
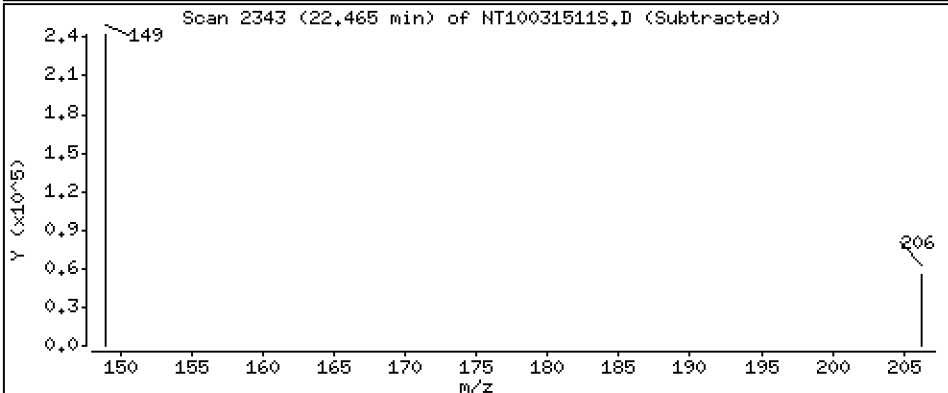
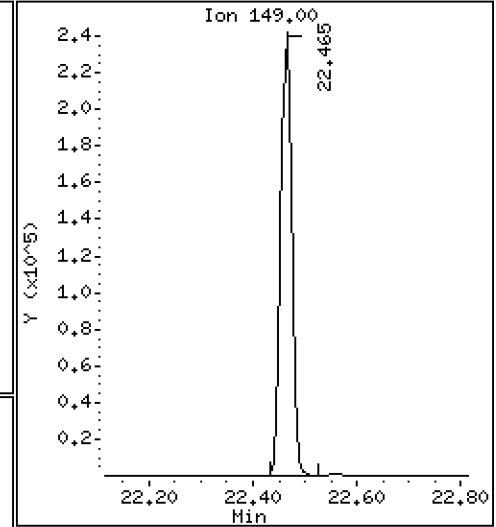
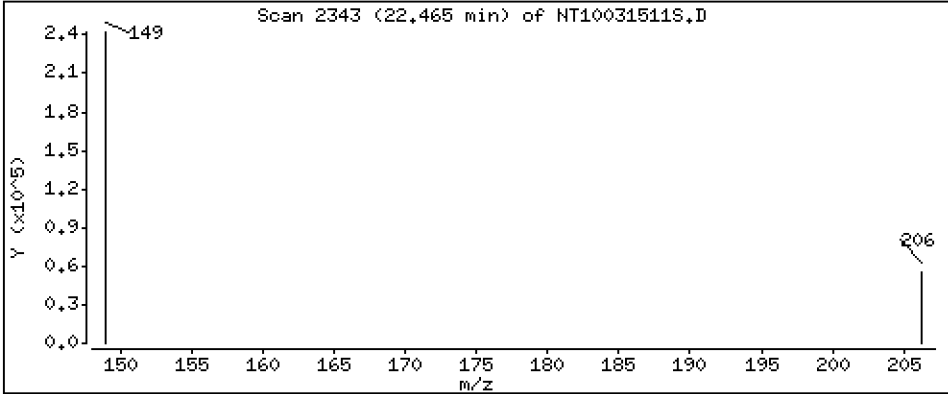
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,121 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

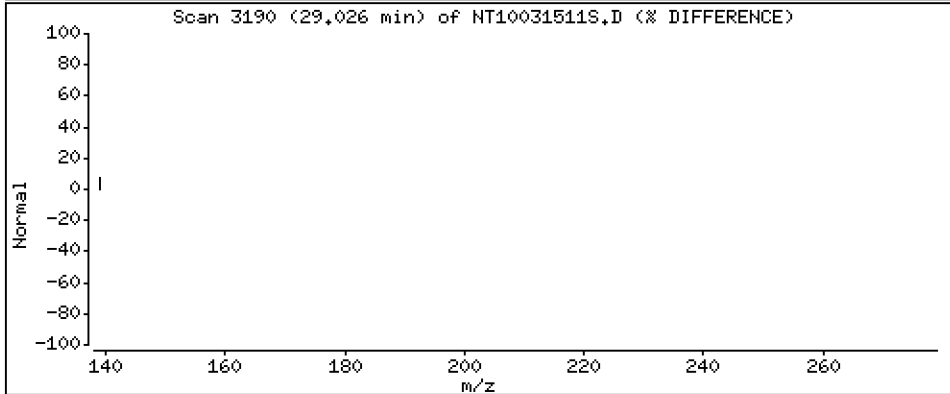
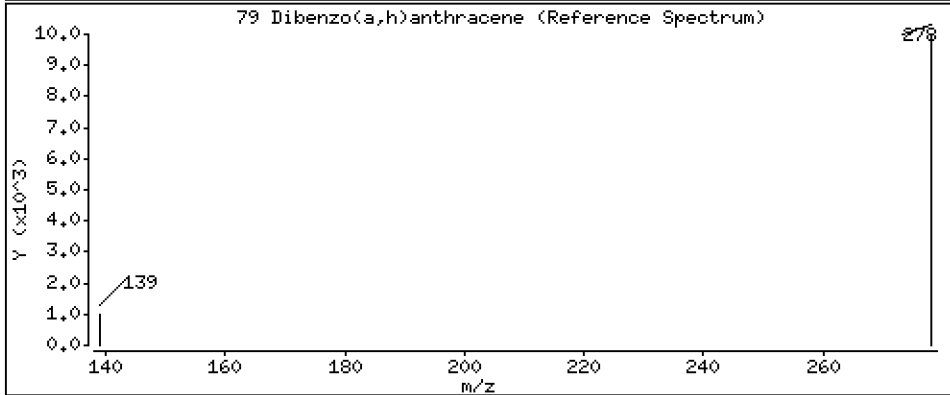
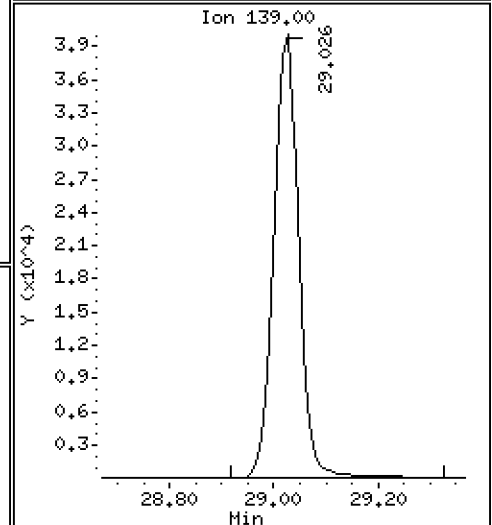
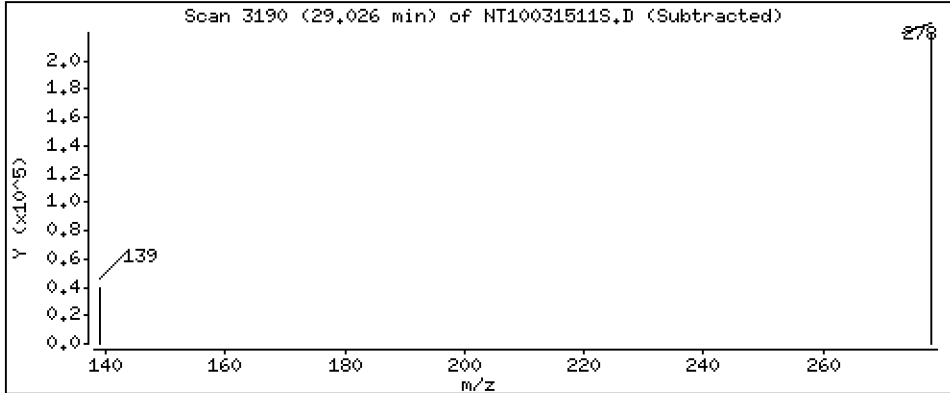
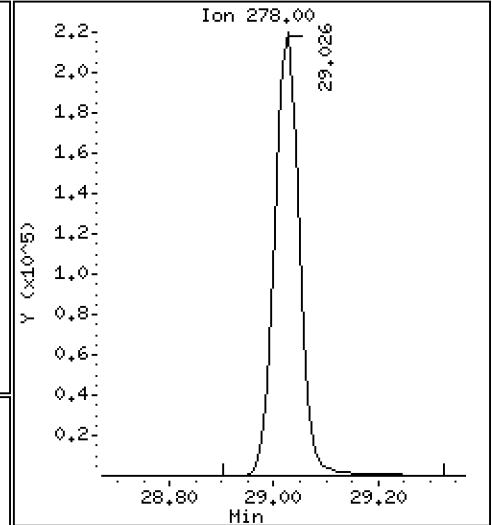
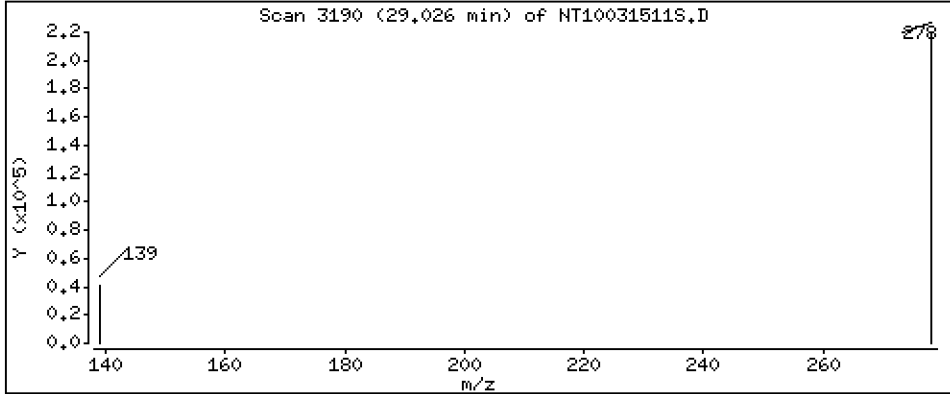
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,238 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

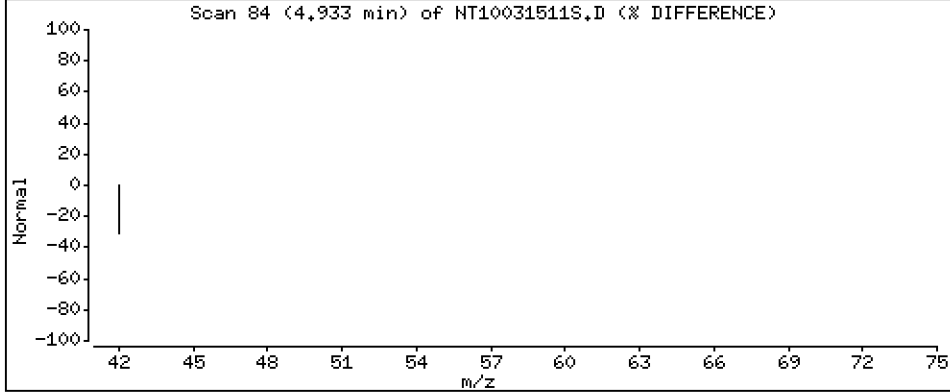
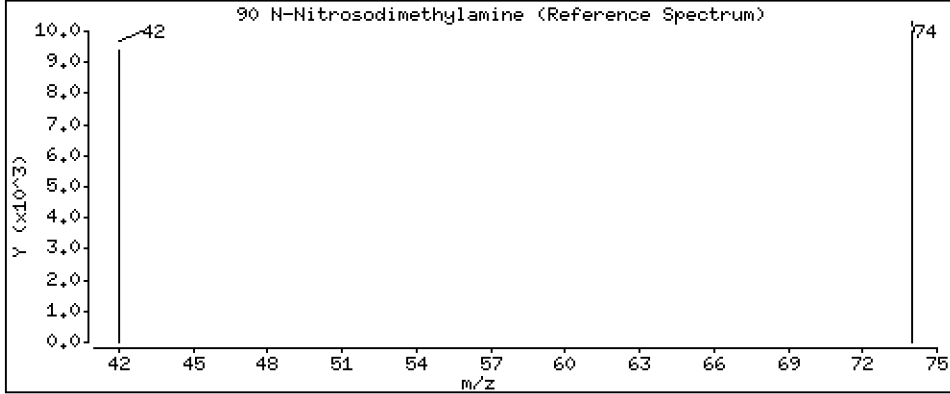
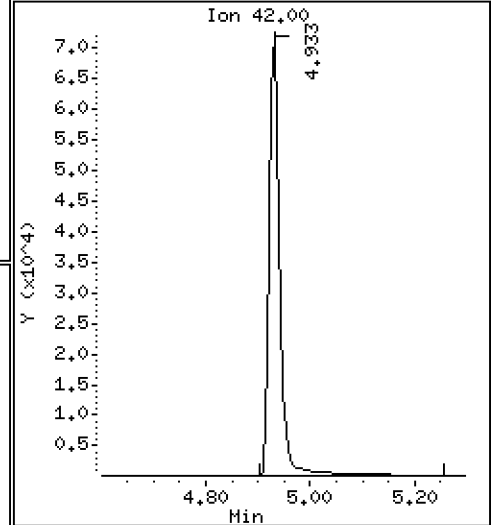
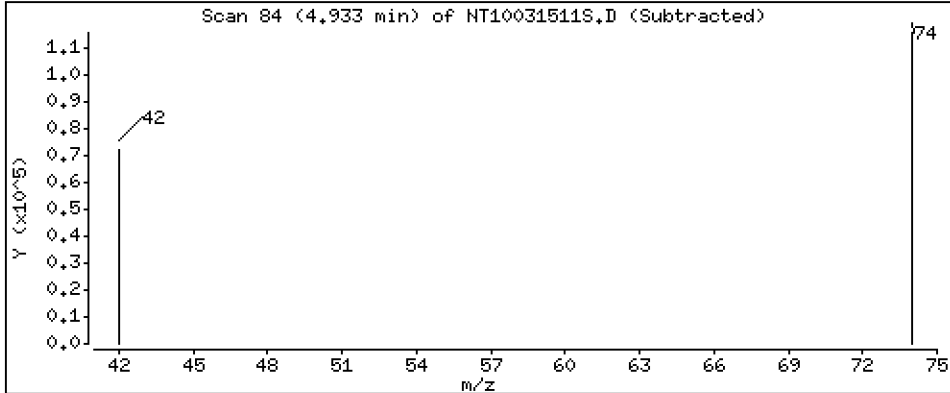
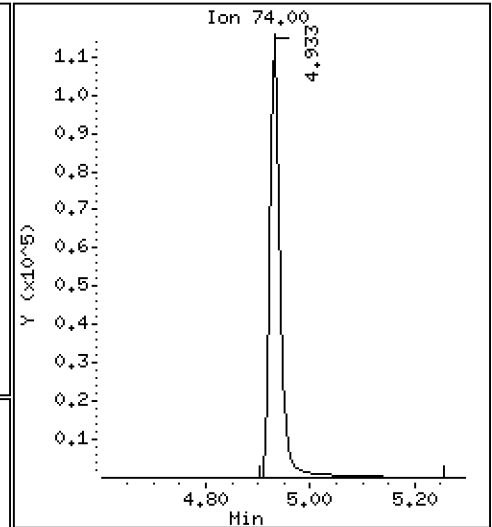
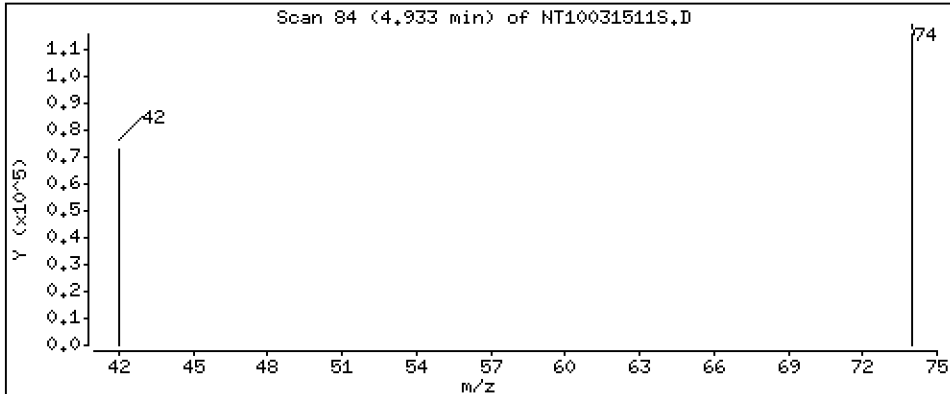
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 5.096 ug/L





ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D  
 Lab Smp Id: SLC0238-SCV1  
 Inj Date : 16-MAR-2023 02:16 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : SLC0238-SCV1  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |         |
|-------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|---------|
|                               |       |     |                        |        |         |          | ON-COLUMN      | FINAL   |
|                               | MASS  |     |                        |        |         |          | (ug/mL)        | ( ug/L) |
| \$ 1 2-Fluorophenol           | 112   |     | Compound Not Detected. |        |         |          |                |         |
| 3 Phenol                      | 94    |     | 8.664                  | 8.664  | (0.931) | 303581   | 4.37299        | 4.373   |
| 7 1,3-Dichlorobenzene         | 146   |     | 9.236                  | 9.236  | (0.992) | 301605   | 4.64290        | 4.643   |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.306                  | 9.298  | (1.000) | 166866   | 4.00000        |         |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.329                  | 9.329  | (1.002) | 303390   | 4.83813        | 4.838   |
| 11 Benzyl alcohol             | 79    |     | 9.562                  | 9.570  | (1.028) | 208505   | 5.18071        | 5.181   |
| 12 1,2-Dichlorobenzene        | 146   |     | 9.686                  | 9.686  | (1.041) | 288539   | 4.67875        | 4.679   |
| 13 2-Methylphenol             | 108   |     | 9.772                  | 9.772  | (1.050) | 201888   | 4.19698        | 4.197   |
| 15 4-Methylphenol             | 108   |     | 10.043                 | 10.036 | (1.079) | 223083   | 4.46301        | 4.463   |
| 16 N-Nitroso-di-n-propylamine | 70    |     | 10.121                 | 10.113 | (1.088) | 186707   | 5.28174        | 5.282   |
| 22 2,4-Dimethylphenol         | 107   |     | 11.086                 | 11.087 | (0.942) | 193654   | 3.66015        | 3.660   |
| 24 Benzoic acid               | 105   |     | 11.214                 | 11.189 | (0.952) | 200487   | 6.74612        | 6.746   |
| 26 1,2,4-Trichlorobenzene     | 180   |     | 11.690                 | 11.690 | (0.993) | 236605   | 4.44540        | 4.445   |
| * 27 Naphthalene-d8           | 136   |     | 11.775                 | 11.775 | (1.000) | 612104   | 4.00000        |         |
| 30 Hexachlorobutadiene        | 225   |     | 12.169                 | 12.169 | (1.033) | 150581   | 4.65339        | 4.653   |
| 39 Dimethylphthalate          | 163   |     | 14.877                 | 14.877 | (0.967) | 472341   | 4.94766        | 4.948   |
| * 42 Acenaphthene-d10         | 162   |     | 15.388                 | 15.380 | (1.000) | 302524   | 4.00000        |         |
| 50 Diethylphthalate           | 149   |     | 16.331                 | 16.324 | (1.061) | 530540   | 5.36440        | 5.364   |
| 54 N-Nitrosodiphenylamine     | 169   |     | 16.725                 | 16.717 | (0.908) | 377357   | 5.08034        | 5.080   |
| 57 Hexachlorobenzene          | 284   |     | 17.798                 | 17.798 | (0.966) | 153405   | 4.61353        | 4.614   |

| Compounds                 | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                           |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>( ug/L) |
| 58 Pentachlorophenol      | 266       | 18.154 | 18.154 | (0.985) | 83223    | 4.41780              | 4.418            |
| * 59 Phenanthrene-d10     | 188       | 18.425 | 18.417 | (1.000) | 553619   | 4.00000              |                  |
| \$ 66 Terphenyl-d14       | 244       | 21.543 | 21.543 | (0.918) | 117      | 0.00154              | 0.001543 (RM)    |
| 67 Butylbenzylphthalate   | 149       | 22.464 | 22.465 | (0.958) | 332887   | 5.12147              | 5.121            |
| * 69 Chrysene-d12         | 240       | 23.455 | 23.455 | (1.000) | 465428   | 4.00000              |                  |
| * 77 Perylene-d12         | 264       | 26.188 | 26.188 | (1.000) | 532593   | 4.00000              |                  |
| 79 Dibenzo(a,h)anthracene | 278       | 29.026 | 29.019 | (1.108) | 722983   | 4.23762              | 4.238            |
| 90 N-Nitrosodimethylamine | 74        | 4.933  | 4.948  | (0.530) | 163555   | 5.09625              | 5.096            |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT10031511S.D  
 Lab Smp Id: SLC0238-SCV1  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Misc Info:

Calibration Date: 15-MAR-2023  
 Calibration Time: 23:06  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|---------------------|----------|------------|---------|--------|--------|
|                     |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze | 188081   | 94041      | 376162  | 166866 | -11.28 |
| 27 Naphthalene-d8   | 674549   | 337275     | 1349098 | 612104 | -9.26  |
| 42 Acenaphthene-d10 | 328275   | 164138     | 656550  | 302524 | -7.84  |
| 59 Phenanthrene-d10 | 597140   | 298570     | 1194280 | 553619 | -7.29  |
| 69 Chrysene-d12     | 466503   | 233252     | 933006  | 465428 | -0.23  |
| 77 Perylene-d12     | 518203   | 259102     | 1036406 | 532593 | 2.78   |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.30     | 8.80     | 9.80  | 9.31   | 0.08  |
| 27 Naphthalene-d8   | 11.77    | 11.27    | 12.27 | 11.78  | 0.01  |
| 42 Acenaphthene-d10 | 15.39    | 14.89    | 15.89 | 15.39  | 0.01  |
| 59 Phenanthrene-d10 | 18.42    | 17.92    | 18.92 | 18.43  | 0.00  |
| 69 Chrysene-d12     | 23.45    | 22.95    | 23.95 | 23.46  | 0.00  |
| 77 Perylene-d12     | 26.19    | 25.69    | 26.69 | 26.19  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT10031511S.D

Lab ID: SLC0238-SCV1

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

16-MAR-2023 02:16

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV   | RRT    | DELTA | COMPOUND     |
|-------|-------|--------|-------|--------------|
| 0.952 | 0.000 | 0.9524 |       | Benzoic acid |

---

RRT check based on Ccal File: 20230315.b/NT10031510S.D

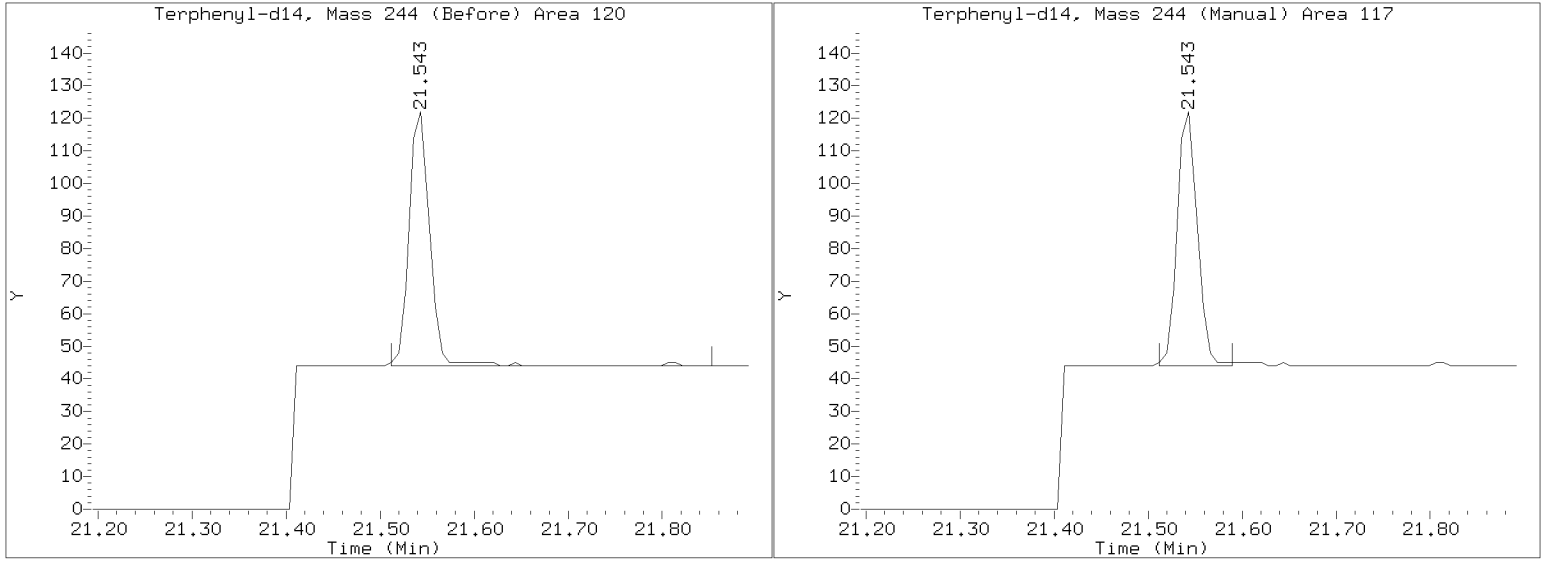
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031511S.D  
Injection Date: 16-MAR-2023 02:16  
Lab ID: SLC0238-SCV1 Client ID:  
Report Date: 03/16/2023 14:49





**INITIAL CALIBRATION CHECK**  
**EPA 8270E-SIM**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT10

Calibration: GC00049

Lab File ID: NT1003222303S.D

Calibration Date: 03/15/2023

Sequence: SLC0407

Injection Date: 03/22/23

Lab Sample ID: SLC0407-ICV1

Injection Time: 18:20

Sequence Name: ABN 1

| COMPOUND               | TYPE | CONC. (ug/mL) |       | RESPONSE FACTOR |           |     | % DRIFT/DIFF |       |
|------------------------|------|---------------|-------|-----------------|-----------|-----|--------------|-------|
|                        |      | STD           | ICV   | ICAL            | ICV       | MIN | ICV          | LIMIT |
| 1,4-Dichlorobenzene    | A    | 1.0000        | 1.0   | 1.5031980       | 1.4859270 |     | -1.2         | +/-20 |
| 1,2-Dichlorobenzene    | A    | 1.0000        | 1.0   | 1.4783140       | 1.5294510 |     | 3.5          | +/-20 |
| Benzyl Alcohol         | A    | 1.0000        | 1.0   | 0.9647610       | 0.9208009 |     | -4.6         | +/-20 |
| Benzoic acid           | A    | 4.0000        | 4.0   | 0.1358970       | 0.1923830 |     | 0.2          | +/-20 |
| 2,4-Dimethylphenol     | A    | 2.0000        | 1.9   | 0.3457498       | 0.3261895 |     | -5.7         | +/-20 |
| 1,2,4-Trichlorobenzene | A    | 1.0000        | 1.1   | 0.3478148       | 0.3655716 |     | 5.1          | +/-20 |
| N-Nitrosodiphenylamine | A    | 1.0000        | 1.1   | 0.5366720       | 0.5872762 |     | 9.4          | +/-20 |
| Pentachlorophenol      | A    | 2.0000        | 2.0   | 0.0934250       | 0.1348737 |     | 0.6          | +/-20 |
| 2-Fluorophenol         | A    | 1.5000        | 1.53  | 1.2129820       | 1.2384850 |     | 2.1          | +/-20 |
| p-Terphenyl-d14        | A    | 1.0000        | 0.979 | 0.6517430       | 0.6380940 |     | -2.1         | +/-20 |
| 1,4-Dichlorobenzene-d4 | A    | 4.0000        | 4.0   | 46867.7500      | 1.0000    |     | 0.0          |       |
| Naphthalene-d8         | A    | 4.0000        | 4.0   | 167312.2000     | 1.0000    |     | 0.0          |       |
| Acenaphthene-d10       | A    | 4.0000        | 4.0   | 81972.4400      | 1.0000    |     | 0.0          |       |
| Phenanthrene-d10       | A    | 4.0000        | 4.0   | 150166.2000     | 1.0000    |     | 0.0          |       |
| Chrysene-d12           | A    | 4.0000        | 4.0   | 110890.6000     | 1.0000    |     | 0.0          |       |
| Perylene-d12           | A    | 4.0000        | 4.0   | 124876.5000     | 1.0000    |     | 0.0          |       |

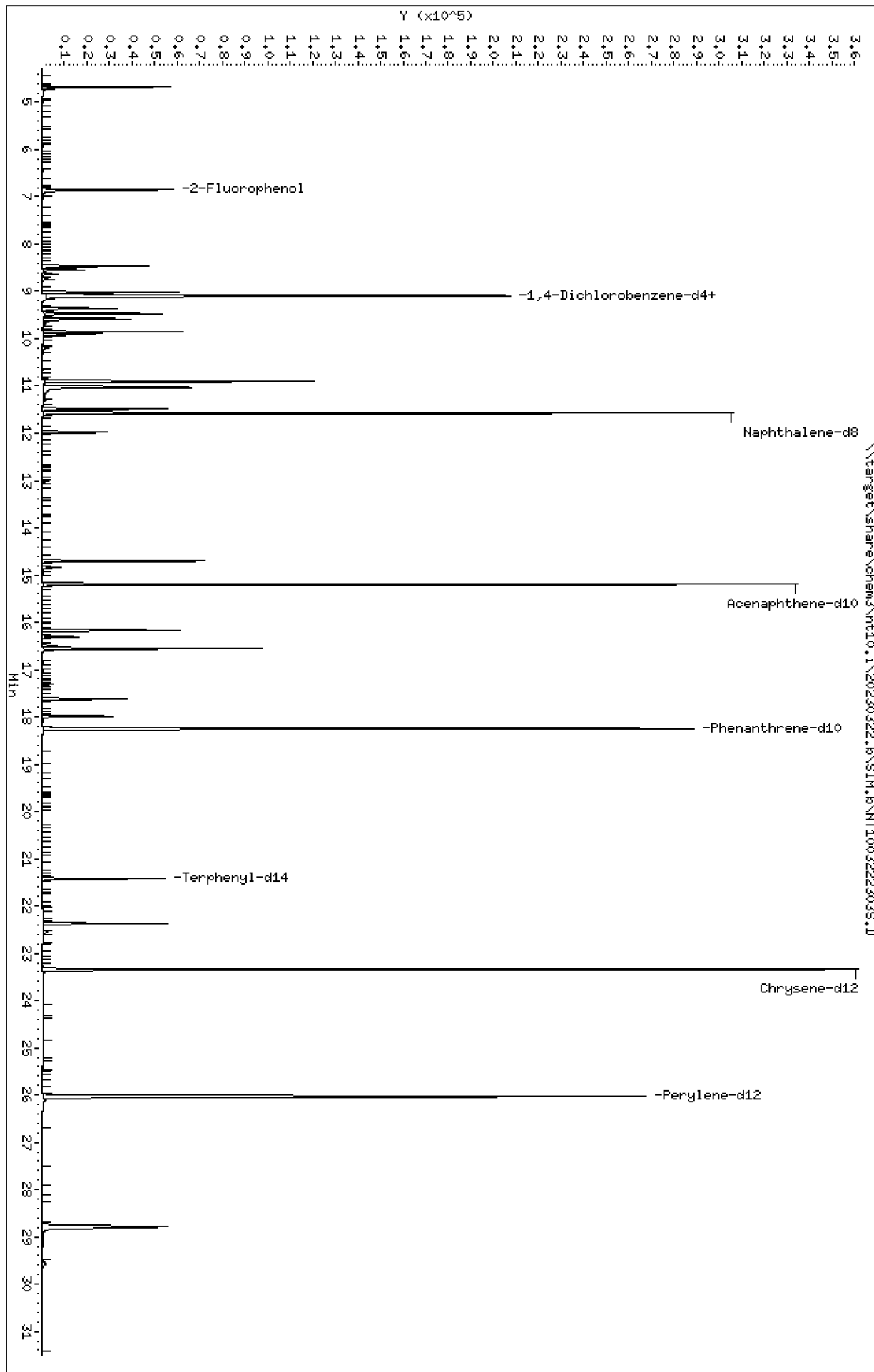
\* Values outside of QC limits

\* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230322.16\SIM.B\NT100322303S.D  
Date: 22-MAR-2023 18:20  
Client ID:  
Sample Info: SED-ICVSIH  
Volume Injected (uL): 1.0  
Column phase: ZB-5msi

Instrument: nt10.1  
Operator: JGR  
Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\SIM.B\NT100322303S.D



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222303S.D  
 Lab Smp Id: SLC0407-ICV1  
 Inj Date : 22-MAR-2023 18:20 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : SEQ-ICVSIM  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Meth Date : 25-Mar-2023 13:23 yev Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 3 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSSDA.sub  
 Target Version: 4.14  
 Processing Host: ORGDATA102

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS         |                |
|-------------------------------|-------|-----|--------|--------|---------|----------|-----------------|----------------|
|                               |       |     |        |        |         |          | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol           | 112   |     | 6.856  | 6.856  | (0.754) | 62787    | 1.50000         | 1.532          |
| 3 Phenol                      | 94    |     | 8.471  | 8.471  | (0.932) | 56824    | 1.00000         | 1.010          |
| 7 1,3-Dichlorobenzene         | 146   |     | 9.020  | 9.020  | (0.992) | 54094    | 1.00000         | 1.028          |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.090  | 9.090  | (1.000) | 135191   | 4.00000         |                |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.113  | 9.113  | (1.003) | 50221    | 1.00000         | 0.9885 (M)     |
| 11 Benzyl alcohol             | 79    |     | 9.361  | 9.361  | (1.030) | 31121    | 1.00000         | 0.9544         |
| 12 1,2-Dichlorobenzene        | 146   |     | 9.470  | 9.470  | (1.042) | 51692    | 1.00000         | 1.035          |
| 13 2-Methylphenol             | 108   |     | 9.586  | 9.586  | (1.055) | 39561    | 1.00000         | 1.015 (H)      |
| 15 4-Methylphenol             | 108   |     | 9.858  | 9.858  | (1.085) | 42555    | 1.00000         | 1.051          |
| 16 N-Nitroso-di-n-propylamine | 70    |     | 9.920  | 9.920  | (1.091) | 27307    | 1.00000         | 0.9535 (H)     |
| 22 2,4-Dimethylphenol         | 107   |     | 10.897 | 10.897 | (0.942) | 79464    | 2.00000         | 1.887          |
| 24 Benzoic acid               | 105   |     | 11.025 | 11.025 | (0.953) | 93734    | 4.00000         | 4.008          |
| 26 1,2,4-Trichlorobenzene     | 180   |     | 11.485 | 11.485 | (0.993) | 44529    | 1.00000         | 1.051          |
| * 27 Naphthalene-d8           | 136   |     | 11.569 | 11.569 | (1.000) | 487226   | 4.00000         |                |
| 30 Hexachlorobutadiene        | 225   |     | 11.979 | 11.979 | (1.035) | 27180    | 1.00000         | 1.055          |
| 39 Dimethylphthalate          | 163   |     | 14.703 | 14.703 | (0.967) | 90719    | 1.00000         | 1.166          |
| * 42 Acenaphthene-d10         | 162   |     | 15.198 | 15.198 | (1.000) | 246588   | 4.00000         |                |
| 50 Diethylphthalate           | 149   |     | 16.165 | 16.165 | (1.064) | 94036    | 1.00000         | 1.167          |
| 54 N-Nitrosodiphenylamine     | 169   |     | 16.550 | 16.550 | (0.907) | 70378    | 1.00000         | 1.094          |
| 57 Hexachlorobenzene          | 284   |     | 17.623 | 17.623 | (0.966) | 33438    | 1.00000         | 1.161          |



| Compounds                 | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS |         |
|---------------------------|-------|-----|--------|--------|---------|----------|---------|---------|
|                           |       |     |        |        |         |          | CAL-AMT | ON-COL  |
|                           | MASS  |     |        |        |         |          | (ug/mL) | (ug/mL) |
| =====                     | ===== |     | =====  | =====  | =====   | =====    | =====   | =====   |
| 58 Pentachlorophenol      | 266   |     | 17.987 | 17.987 | (0.986) | 32326    | 2.00000 | 2.011   |
| * 59 Phenanthrene-d10     | 188   |     | 18.250 | 18.250 | (1.000) | 479352   | 4.00000 |         |
| \$ 66 Terphenyl-d14       | 244   |     | 21.422 | 21.422 | (0.918) | 70157    | 1.00000 | 0.9791  |
| 67 Butylbenzylphthalate   | 149   |     | 22.367 | 22.367 | (0.958) | 64846    | 1.00000 | 1.108   |
| * 69 Chrysene-d12         | 240   |     | 23.343 | 23.343 | (1.000) | 439791   | 4.00000 |         |
| * 77 Perylene-d12         | 264   |     | 26.029 | 26.029 | (1.000) | 505700   | 4.00000 |         |
| 79 Dibenzo(a,h)anthracene | 278   |     | 28.790 | 28.790 | (1.106) | 164239   | 1.00000 | 0.9950  |
| 90 N-Nitrosodimethylamine | 74    |     | 4.678  | 4.678  | (0.515) | 50473    | 2.00000 | 1.941   |

QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT1003222303S.D  
 Lab Smp Id: SLC0407-ICV1  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Misc Info:

Calibration Date: 22-MAR-2023  
 Calibration Time: 12:38  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 135191   | 67596      | 270382  | 135191 | 0.00  |
| 27 Naphthalene-d8   | 487226   | 243613     | 974452  | 487226 | 0.00  |
| 42 Acenaphthene-d10 | 246588   | 123294     | 493176  | 246588 | 0.00  |
| 59 Phenanthrene-d10 | 479352   | 239676     | 958704  | 479352 | 0.00  |
| 69 Chrysene-d12     | 439791   | 219896     | 879582  | 439791 | 0.00  |
| 77 Perylene-d12     | 505700   | 252850     | 1011400 | 505700 | 0.00  |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.09     | 8.59     | 9.59  | 9.09   | 0.00  |
| 27 Naphthalene-d8   | 11.57    | 11.07    | 12.07 | 11.57  | 0.00  |
| 42 Acenaphthene-d10 | 15.20    | 14.70    | 15.70 | 15.20  | 0.00  |
| 59 Phenanthrene-d10 | 18.25    | 17.75    | 18.75 | 18.25  | 0.00  |
| 69 Chrysene-d12     | 23.34    | 22.84    | 23.84 | 23.34  | 0.00  |
| 77 Perylene-d12     | 26.03    | 25.53    | 26.53 | 26.03  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222303S.D

Lab ID: SLC0407-ICV1

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 22-MAR-2023 18:20

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Ccal file.

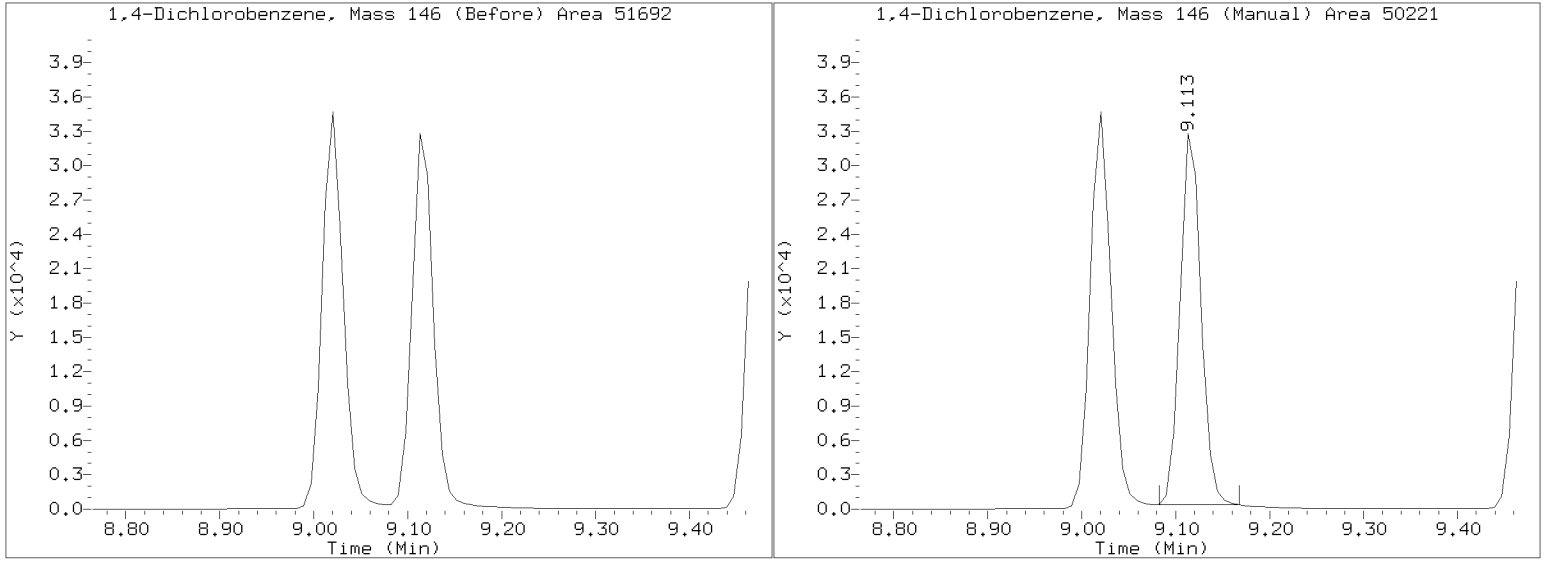
On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222303S.D  
Injection Date: 22-MAR-2023 18:20  
Lab ID: SLC0407-ICV1 Client ID:  
Report Date: 03/25/2023 13:23



Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b\SIM.b

Instrument: nt10.i Date: 22-MAR-2023 Method: SIM.b\SIMABN2.m

INITIAL CAL: 15-MAR-2023

| Compound   | %RSD or R <sup>2</sup> |
|------------|------------------------|
| -----      |                        |
| NO Q-FLAGS |                        |
| -----      |                        |

ICV CAL: NT1003222303S.D 22-MAR-2023 18:20

| Compound   | %D |
|------------|----|
| -----      |    |
| NO Q-FLAGS |    |
| -----      |    |



**INITIAL CALIBRATION CHECK**  
**EPA 8270E-SIM**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT10

Calibration: GC00049

Lab File ID: NT1003222318S.D

Calibration Date: 03/15/2023

Sequence: SLC0407

Injection Date: 03/23/23

Lab Sample ID: SLC0407-ICV2

Injection Time: 03:52

Sequence Name: ABN 1

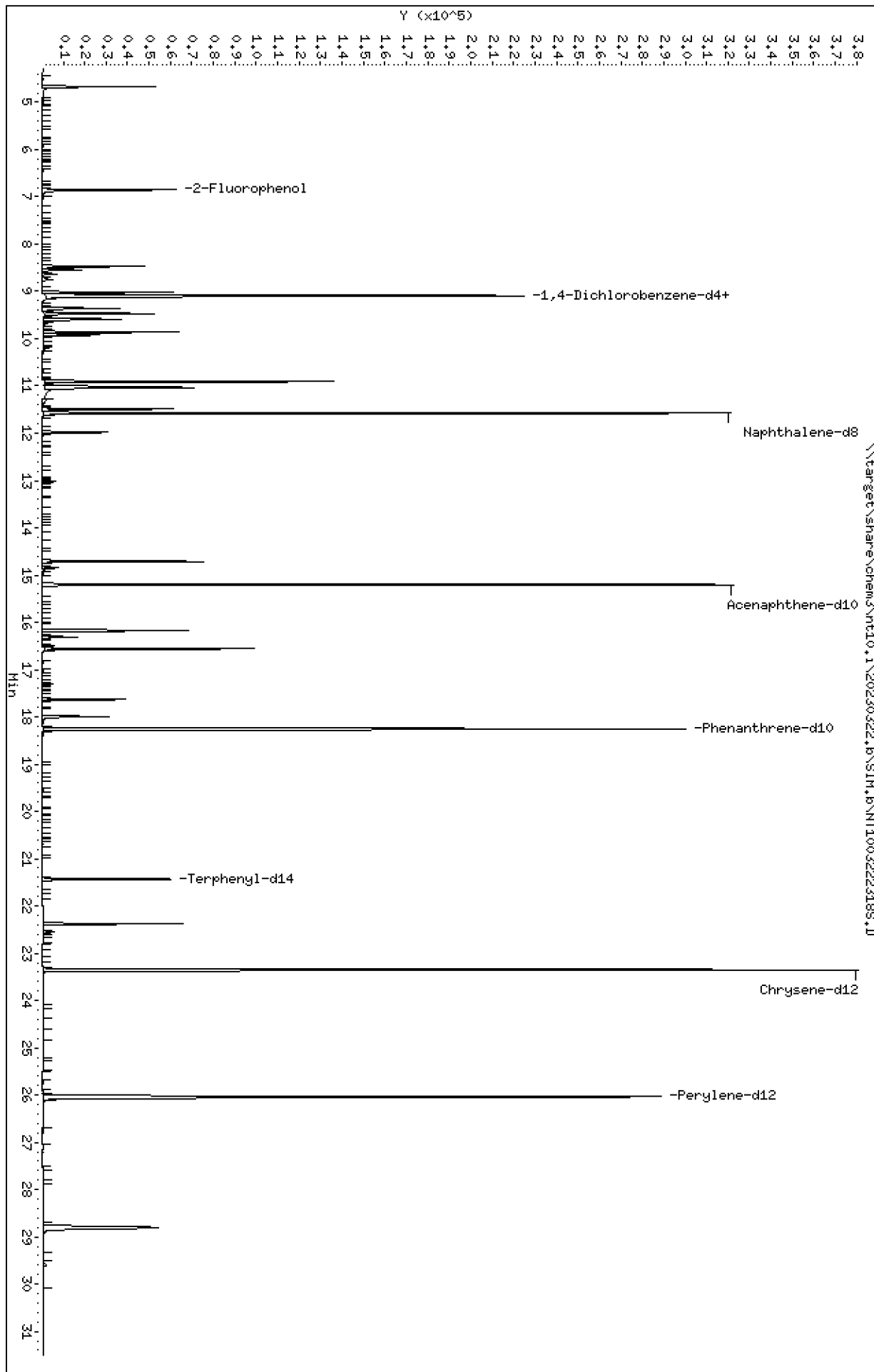
| COMPOUND               | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |       |
|------------------------|------|---------------|------|-----------------|-----------|-----|--------------|-------|
|                        |      | STD           | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT |
| 1,4-Dichlorobenzene    | A    | 1.0000        | 1.0  | 1.5031980       | 1.5272120 |     | 1.6          | +/-20 |
| 1,2-Dichlorobenzene    | A    | 1.0000        | 1.0  | 1.4783140       | 1.5003380 |     | 1.5          | +/-20 |
| Benzyl Alcohol         | A    | 1.0000        | 1.0  | 0.9647610       | 0.9562513 |     | -0.9         | +/-20 |
| Benzoic acid           | A    | 4.0000        | 4.2  | 0.1358970       | 0.2018991 |     | 5.1          | +/-20 |
| 2,4-Dimethylphenol     | A    | 2.0000        | 1.9  | 0.3457498       | 0.3285362 |     | -5.0         | +/-20 |
| 1,2,4-Trichlorobenzene | A    | 1.0000        | 1.1  | 0.3478148       | 0.3707206 |     | 6.6          | +/-20 |
| N-Nitrosodiphenylamine | A    | 1.0000        | 1.1  | 0.5366720       | 0.5779157 |     | 7.7          | +/-20 |
| Pentachlorophenol      | A    | 2.0000        | 2.1  | 0.0934250       | 0.1375217 |     | 2.5          | +/-20 |
| 2-Fluorophenol         | A    | 1.5000        | 1.58 | 1.2129820       | 1.2785320 |     | 5.4          | +/-20 |
| p-Terphenyl-d14        | A    | 1.0000        | 1.02 | 0.6517430       | 0.6627039 |     | 1.7          | +/-20 |
| 1,4-Dichlorobenzene-d4 | A    | 4.0000        | 4.0  | 46867.7500      | 1.0000    |     | 0.0          |       |
| Naphthalene-d8         | A    | 4.0000        | 4.0  | 167312.2000     | 1.0000    |     | 0.0          |       |
| Acenaphthene-d10       | A    | 4.0000        | 4.0  | 81972.4400      | 1.0000    |     | 0.0          |       |
| Phenanthrene-d10       | A    | 4.0000        | 4.0  | 150166.2000     | 1.0000    |     | 0.0          |       |
| Chrysene-d12           | A    | 4.0000        | 4.0  | 110890.6000     | 1.0000    |     | 0.0          |       |
| Perylene-d12           | A    | 4.0000        | 4.0  | 124876.5000     | 1.0000    |     | 0.0          |       |

\* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230322.16\SIM.6\N10032223185.D  
Date: 23-MAR-2023 03:52  
Client ID:  
Sample Info: SED-OCV31H  
Volume Injected (uL): 1.0  
Column phase: ZB-5msi

Instrument: nt10.1  
Operator: JGR  
Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\SIM.6\N10032223185.D



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222318S.D  
 Lab Smp Id: SLC0407-ICV2  
 Inj Date : 23-MAR-2023 03:52 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : SEQ-CCVSIM  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Meth Date : 25-Mar-2023 16:11 yev Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 3 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: ORGDATA102

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS         |                |
|-------------------------------|-------|-----|--------|--------|---------|----------|-----------------|----------------|
|                               |       |     |        |        |         |          | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol           | 112   |     | 6.856  | 6.856  | (0.754) | 67366    | 1.50000         | 1.581          |
| 3 Phenol                      | 94    |     | 8.471  | 8.471  | (0.932) | 57865    | 1.00000         | 0.9899         |
| 7 1,3-Dichlorobenzene         | 146   |     | 9.020  | 9.020  | (0.992) | 55617    | 1.00000         | 1.017          |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.090  | 9.090  | (1.000) | 140507   | 4.00000         |                |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.121  | 9.121  | (1.003) | 53646    | 1.00000         | 1.016          |
| 11 Benzyl alcohol             | 79    |     | 9.361  | 9.361  | (1.030) | 33590    | 1.00000         | 0.9912         |
| 12 1,2-Dichlorobenzene        | 146   |     | 9.470  | 9.470  | (1.042) | 52702    | 1.00000         | 1.015          |
| 13 2-Methylphenol             | 108   |     | 9.586  | 9.586  | (1.055) | 42933    | 1.00000         | 1.060          |
| 15 4-Methylphenol             | 108   |     | 9.858  | 9.858  | (1.085) | 45858    | 1.00000         | 1.090          |
| 16 N-Nitroso-di-n-propylamine | 70    |     | 9.920  | 9.920  | (1.091) | 29826    | 1.00000         | 1.002          |
| 22 2,4-Dimethylphenol         | 107   |     | 10.906 | 10.906 | (0.942) | 82001    | 2.00000         | 1.900          |
| 24 Benzoic acid               | 105   |     | 11.033 | 11.033 | (0.953) | 100786   | 4.00000         | 4.203          |
| 26 1,2,4-Trichlorobenzene     | 180   |     | 11.492 | 11.492 | (0.993) | 46265    | 1.00000         | 1.066          |
| * 27 Naphthalene-d8           | 136   |     | 11.577 | 11.577 | (1.000) | 499190   | 4.00000         |                |
| 30 Hexachlorobutadiene        | 225   |     | 11.979 | 11.979 | (1.035) | 28412    | 1.00000         | 1.077          |
| 39 Dimethylphthalate          | 163   |     | 14.711 | 14.711 | (0.967) | 91708    | 1.00000         | 1.161          |
| * 42 Acenaphthene-d10         | 162   |     | 15.206 | 15.206 | (1.000) | 250303   | 4.00000         |                |
| 50 Diethylphthalate           | 149   |     | 16.172 | 16.172 | (1.064) | 99387    | 1.00000         | 1.215          |
| 54 N-Nitrosodiphenylamine     | 169   |     | 16.558 | 16.558 | (0.907) | 71791    | 1.00000         | 1.077          |
| 57 Hexachlorobenzene          | 284   |     | 17.631 | 17.631 | (0.966) | 35020    | 1.00000         | 1.173          |



| Compounds                 | QUANT SIG |  |        |        |         |          | AMOUNTS            |                   |
|---------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
|                           | MASS      |  | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>(ug/mL) | ON-COL<br>(ug/mL) |
| =====                     | =====     |  | =====  | =====  | =====   | =====    | =====              | =====             |
| 58 Pentachlorophenol      | 266       |  | 17.995 | 17.995 | (0.986) | 34167    | 2.00000            | 2.050             |
| * 59 Phenanthrene-d10     | 188       |  | 18.258 | 18.258 | (1.000) | 496896   | 4.00000            |                   |
| \$ 66 Terphenyl-d14       | 244       |  | 21.438 | 21.438 | (0.918) | 77178    | 1.00000            | 1.017             |
| 67 Butylbenzylphthalate   | 149       |  | 22.375 | 22.375 | (0.958) | 75143    | 1.00000            | 1.211             |
| * 69 Chrysene-d12         | 240       |  | 23.350 | 23.350 | (1.000) | 465837   | 4.00000            |                   |
| * 77 Perylene-d12         | 264       |  | 26.037 | 26.037 | (1.000) | 551078   | 4.00000            |                   |
| 79 Dibenzo(a,h)anthracene | 278       |  | 28.798 | 28.798 | (1.106) | 173728   | 1.00000            | 0.9657            |
| 90 N-Nitrosodimethylamine | 74        |  | 4.670  | 4.670  | (0.514) | 52897    | 2.00000            | 1.957             |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT1003222318S.D  
 Lab Smp Id: SLC0407-ICV2  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Misc Info:

Calibration Date: 22-MAR-2023  
 Calibration Time: 18:20  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 8 1,4-Dichlorobenze | 135191   | 67596      | 270382  | 140507 | 3.93  |
| 27 Naphthalene-d8   | 487226   | 243613     | 974452  | 499190 | 2.46  |
| 42 Acenaphthene-d10 | 246588   | 123294     | 493176  | 250303 | 1.51  |
| 59 Phenanthrene-d10 | 479352   | 239676     | 958704  | 496896 | 3.66  |
| 69 Chrysene-d12     | 439791   | 219896     | 879582  | 465837 | 5.92  |
| 77 Perylene-d12     | 505700   | 252850     | 1011400 | 551078 | 8.97  |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.09     | 8.59     | 9.59  | 9.09   | 0.00  |
| 27 Naphthalene-d8   | 11.57    | 11.07    | 12.07 | 11.58  | 0.07  |
| 42 Acenaphthene-d10 | 15.20    | 14.70    | 15.70 | 15.21  | 0.05  |
| 59 Phenanthrene-d10 | 18.25    | 17.75    | 18.75 | 18.26  | 0.04  |
| 69 Chrysene-d12     | 23.34    | 22.84    | 23.84 | 23.35  | 0.03  |
| 77 Perylene-d12     | 26.03    | 25.53    | 26.53 | 26.04  | 0.03  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1003222318S.D

Lab ID: SLC0407-ICV2

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 23-MAR-2023 03:52

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Ccal file.

On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b\SIM.b

Instrument: nt10.i Date: 23-MAR-2023 Method: SIM.b\SIMABN2.m

INITIAL CAL: 15-MAR-2023

| Compound   | %RSD or R <sup>2</sup> |
|------------|------------------------|
| -----      |                        |
| NO Q-FLAGS |                        |
| -----      |                        |

ICV CAL: NT1003222318S.D 23-MAR-2023 03:52

| Compound             | %D   |
|----------------------|------|
| -----                |      |
| Diethylphthalate     | 21.5 |
| Butylbenzylphthalate | 21.1 |
| -----                |      |



**SECOND-SOURCE  
CONTINUING CALIBRATION CHECK  
EPA 8270E-SIM**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT10</u>                      | Calibration:      | <u>GC00049</u>         |
| Lab File ID:   | <u>NT10031511S.D</u>             | Calibration Date: | <u>03/15/2023</u>      |
| Sequence:      | <u>SLC0238</u>                   | Injection Date:   | <u>03/16/23</u>        |
| Lab Sample ID: | <u>SLC0238-SCV1</u>              | Injection Time:   | <u>02:16</u>           |
| Sequence Name: | <u>SCV 5.0</u>                   |                   |                        |

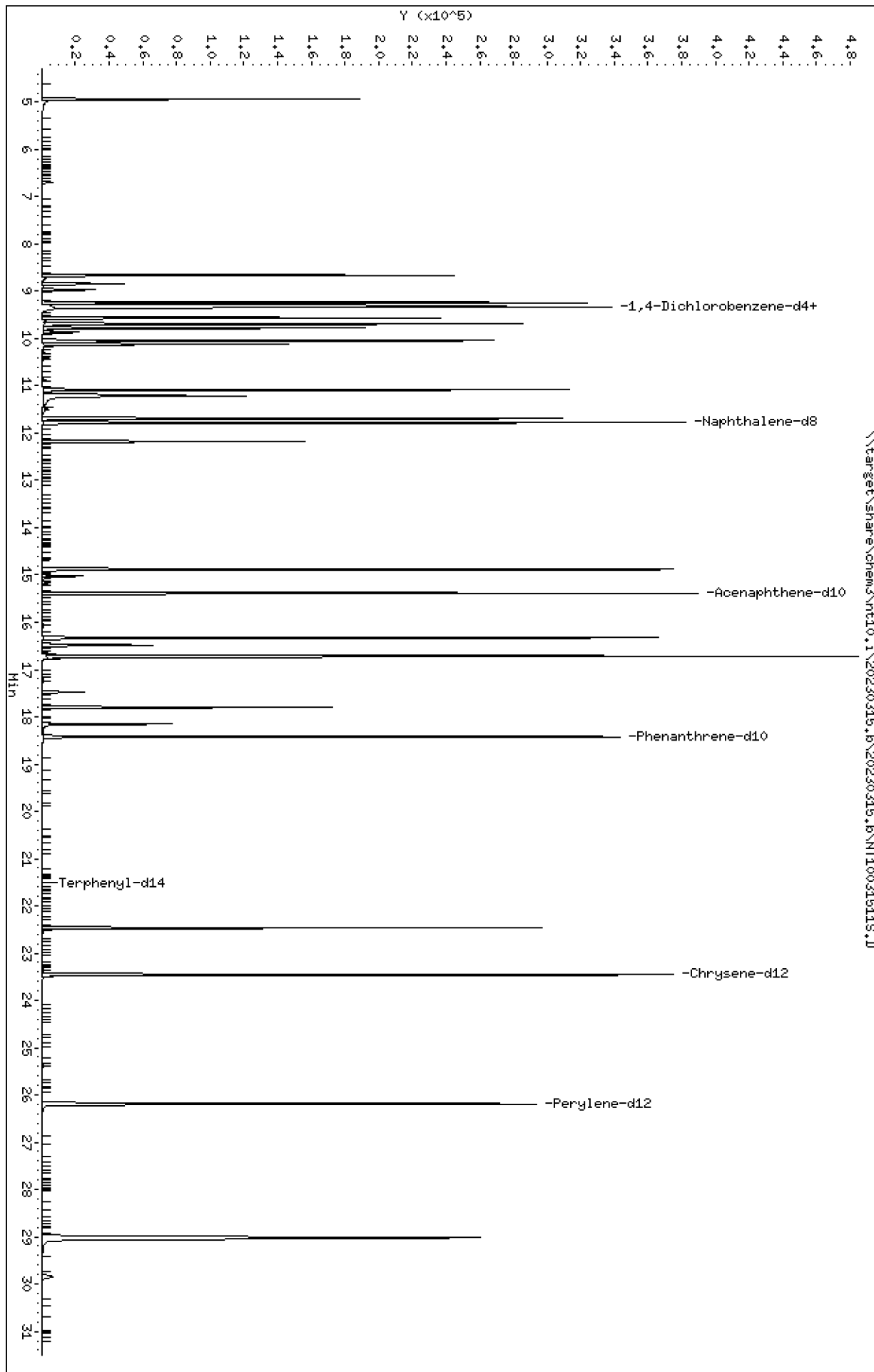
| COMPOUND               | TYPE | CONC. (ug/mL) |         | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|------------------------|------|---------------|---------|-----------------------|-----------|-----|--------------|---------|
|                        |      | STD           | CCV     | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| 1,4-Dichlorobenzene    | A    | 5.0000        | 4.8     | 1.5031980             | 1.4545320 |     | -3.2         | +/-20   |
| 1,2-Dichlorobenzene    | A    | 5.0000        | 4.7     | 1.4783140             | 1.3833330 |     | -6.4         | +/-20   |
| Benzyl Alcohol         | A    | 5.0000        | 5.2     | 0.9647610             | 0.9996284 |     | 3.6          | +/-20   |
| Benzoic acid           | A    | 10.000        | 6.7     | 0.1358970             | 0.1310150 |     | -32.5        | +/-20 * |
| 2,4-Dimethylphenol     | A    | 5.0000        | 3.7     | 0.3457498             | 0.2530995 |     | -26.8        | +/-20 * |
| 1,2,4-Trichlorobenzene | A    | 5.0000        | 4.4     | 0.3478148             | 0.3092350 |     | -11.1        | +/-20   |
| N-Nitrosodiphenylamine | A    | 5.0000        | 5.1     | 0.5366720             | 0.5452949 |     | 1.6          | +/-20   |
| Pentachlorophenol      | A    | 5.0000        | 4.4     | 0.0934250             | 0.1202603 |     | -11.6        | +/-20   |
| 2-Fluorophenol         | A    | 7.5000        | 0.00    | 1.2129820             |           |     |              |         |
| p-Terphenyl-d14        | A    | 5.0000        | 0.00154 | 0.6517430             | 0.0002011 |     | -100         |         |

\* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT100315115.D  
Date: 16-MAR-2023 02:16  
Client ID:  
Sample Info: SLC0238-SCV1  
Volume Injected (uL): 1.0  
Column phase: ZB-5msi

Instrument: nt10.1  
Operator: JGR  
Column diameter: 0.25

\\target\share\chem3\nt10.1\20230315.1\20230315.1\NT100315115.D



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

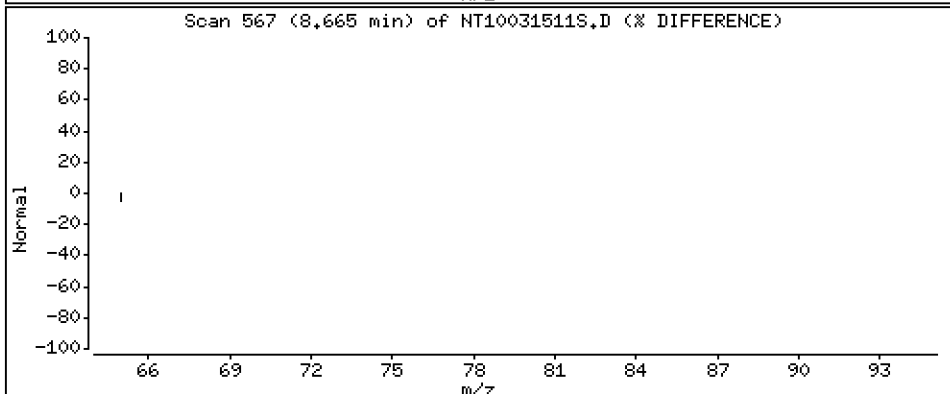
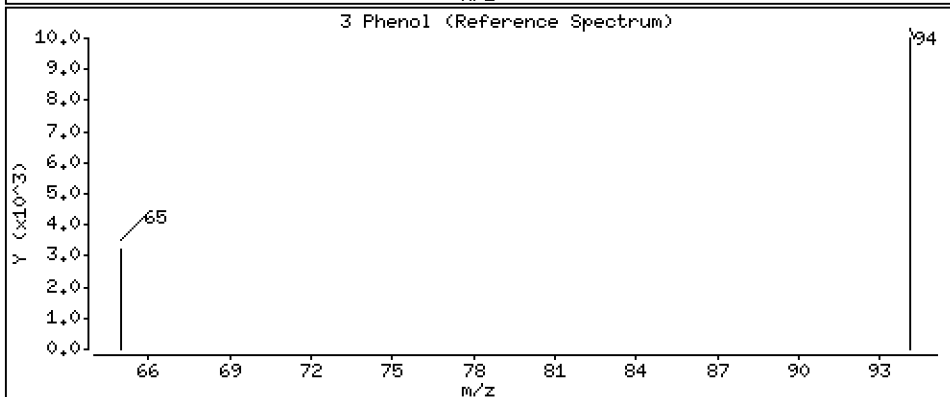
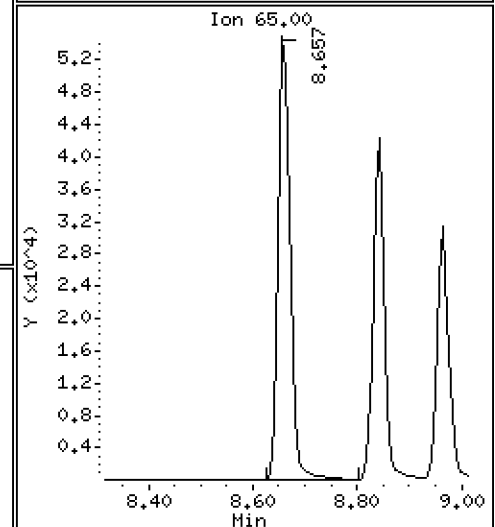
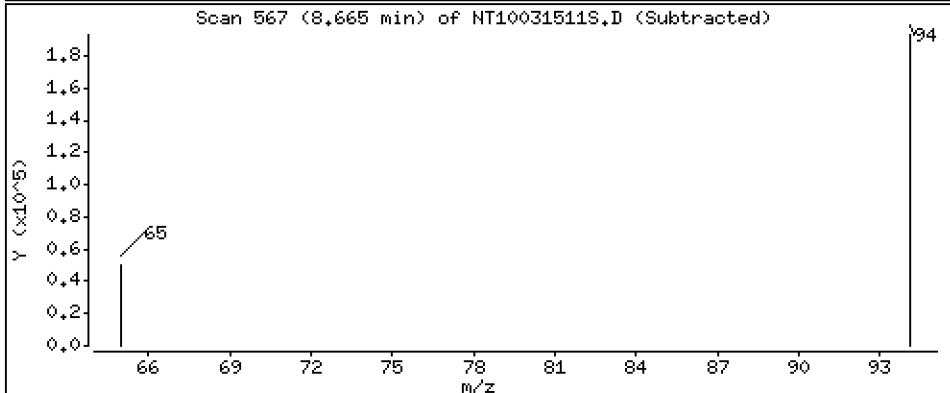
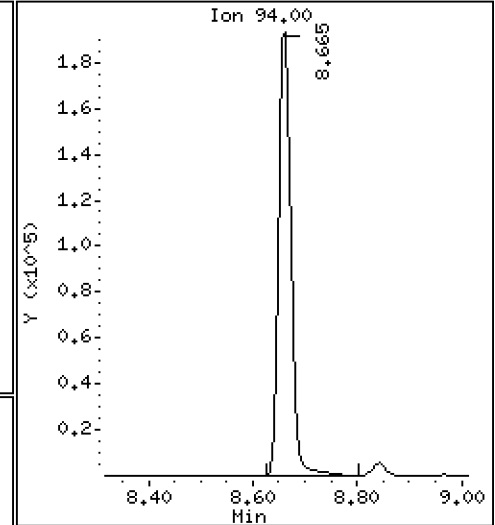
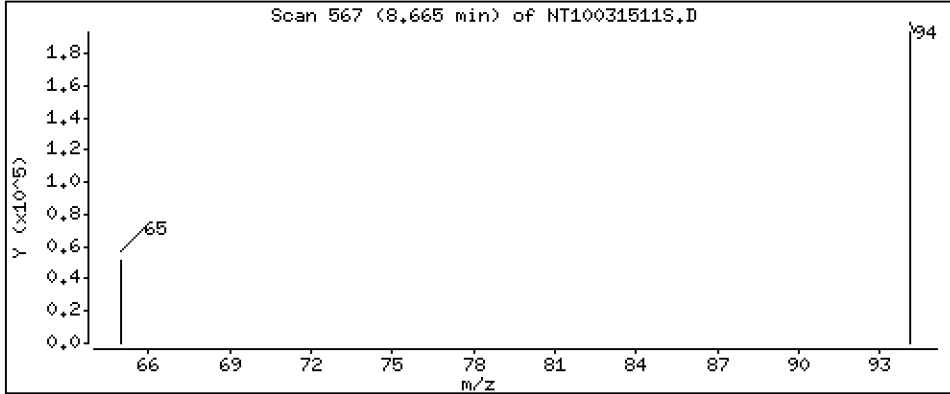
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 4.373 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

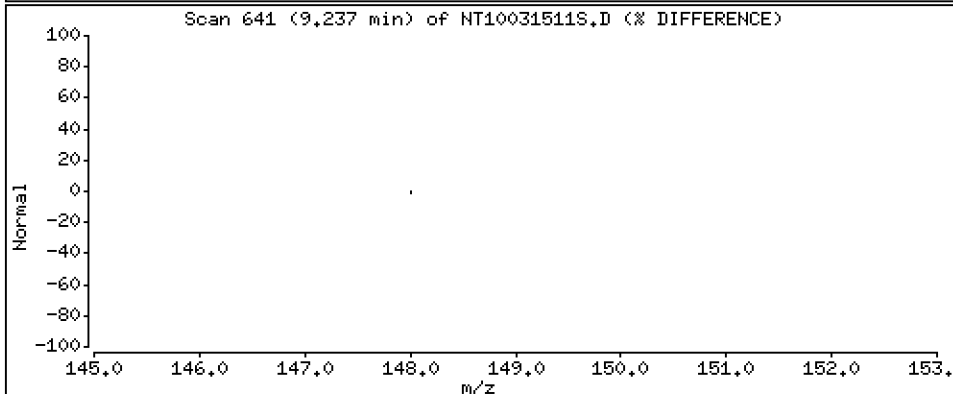
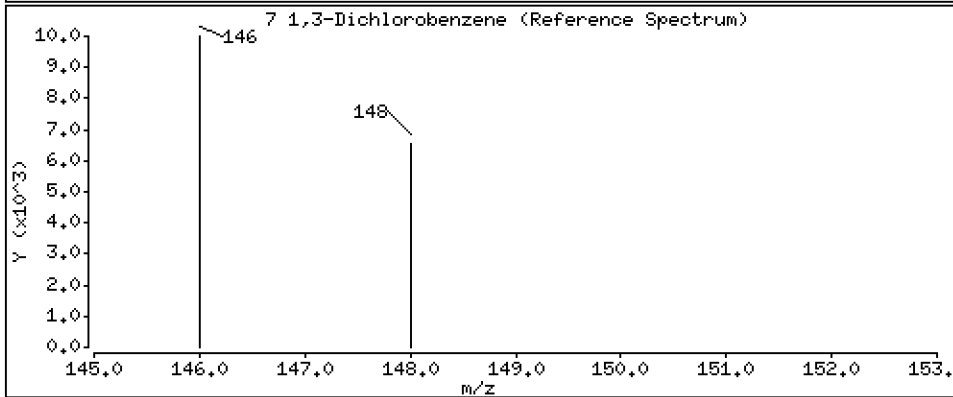
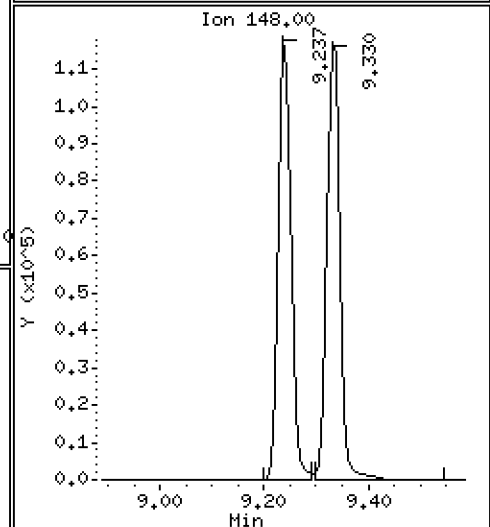
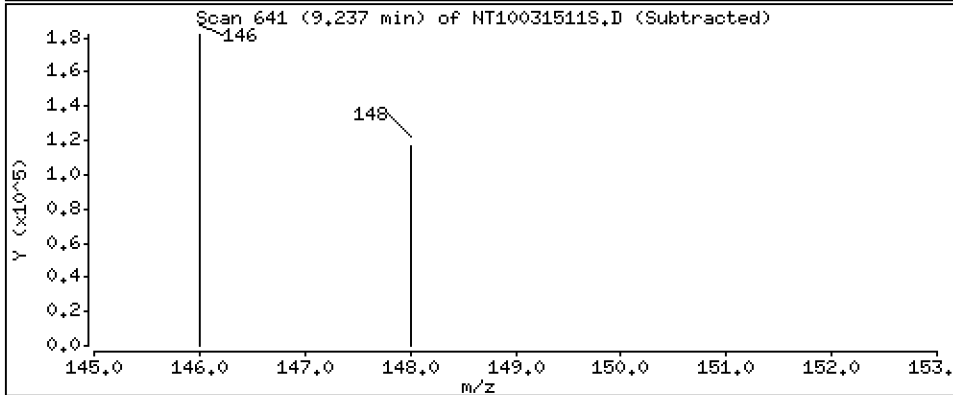
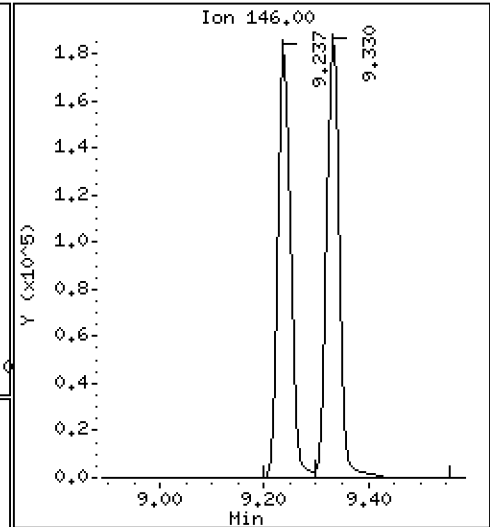
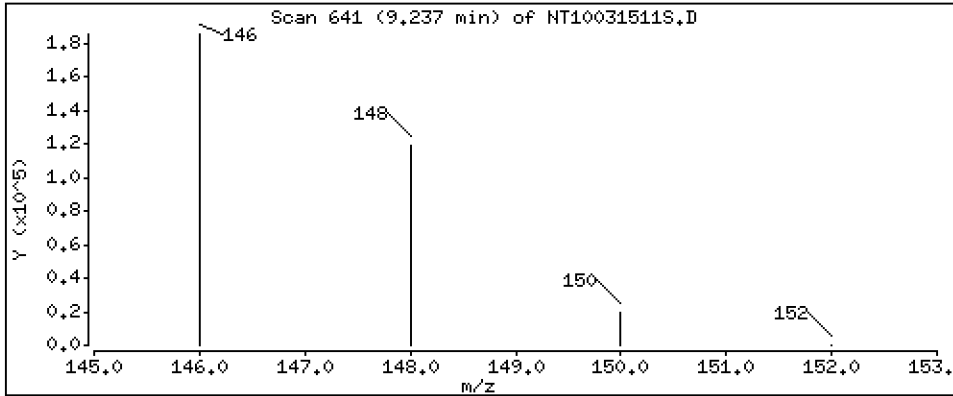
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 4.643 ug/L





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

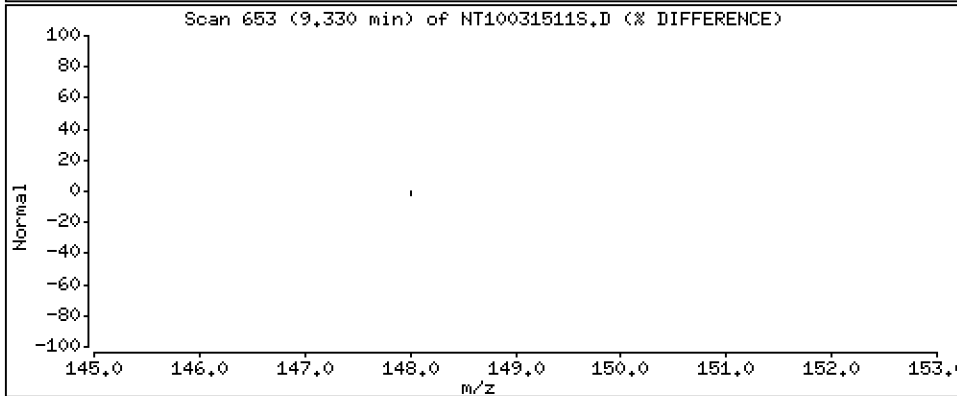
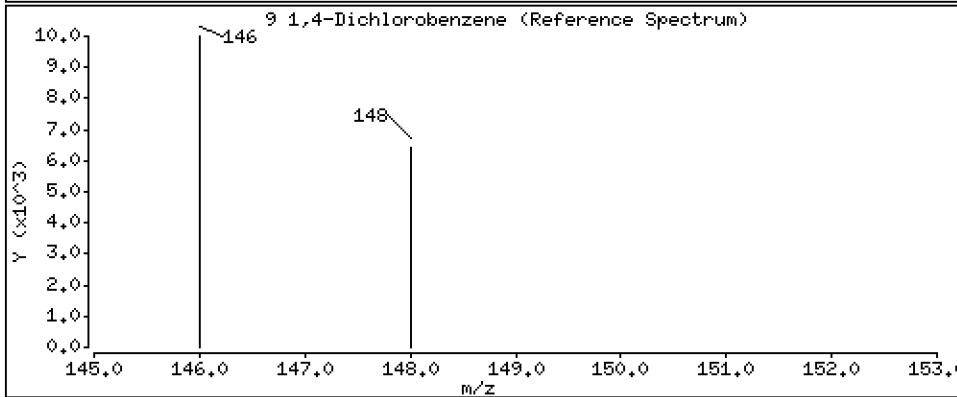
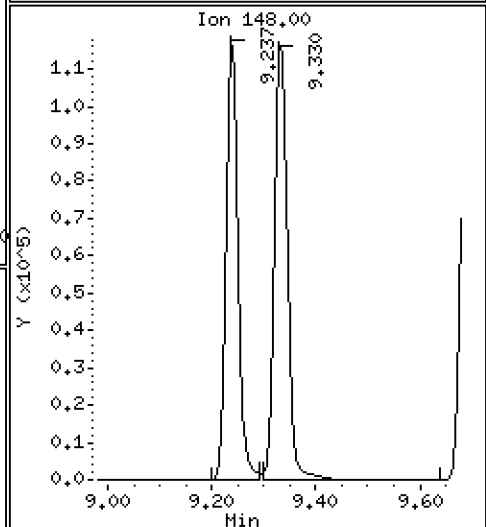
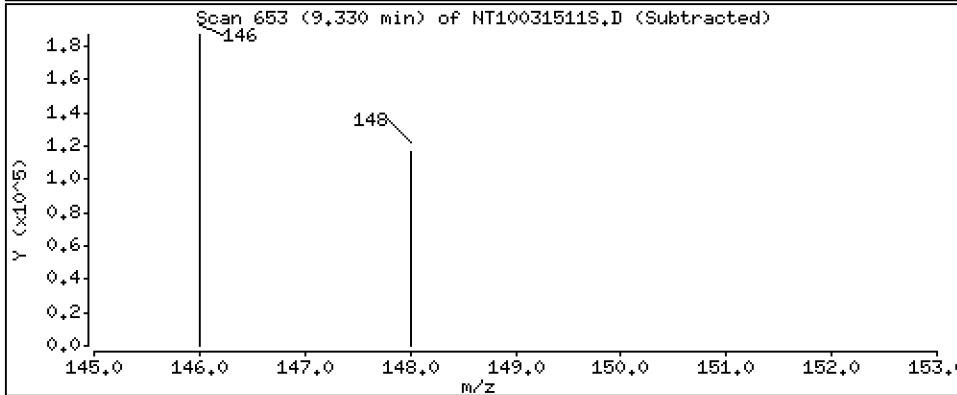
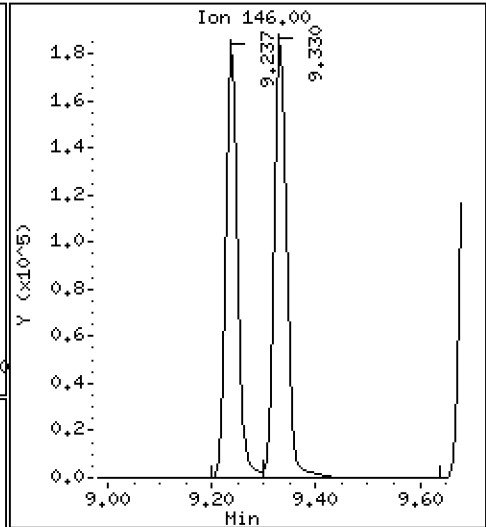
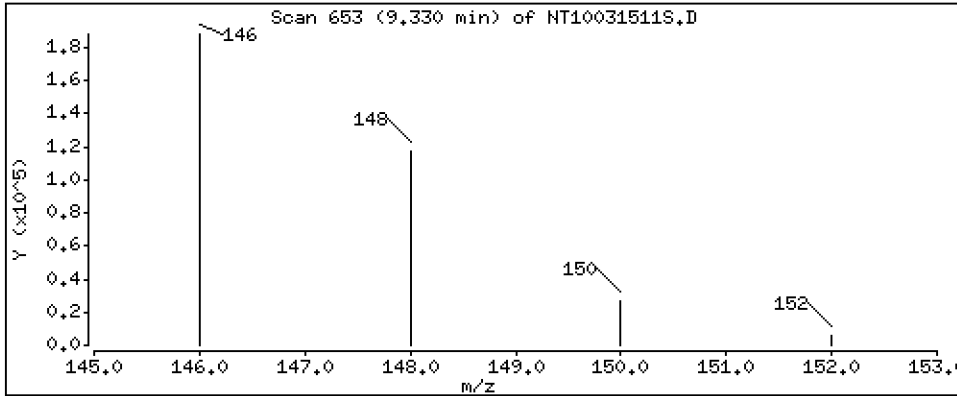
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 4.838 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

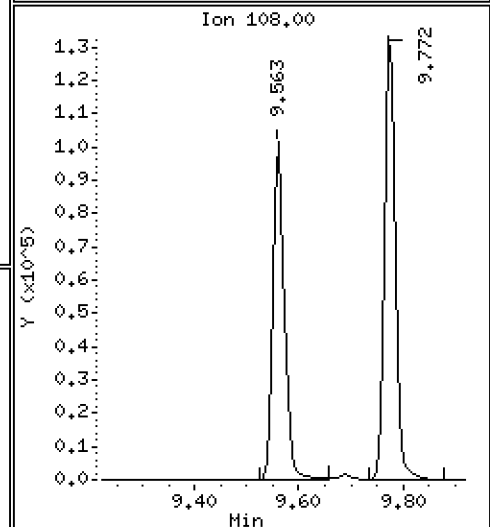
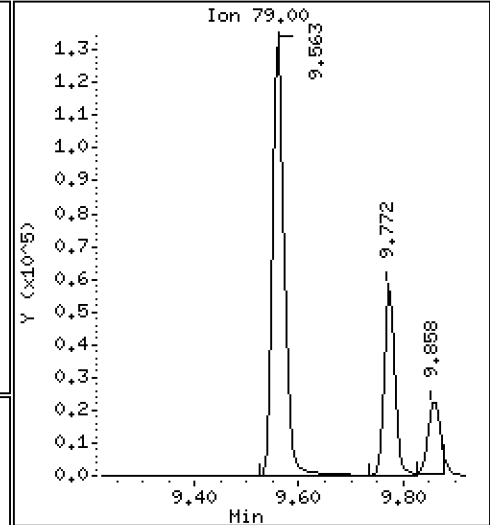
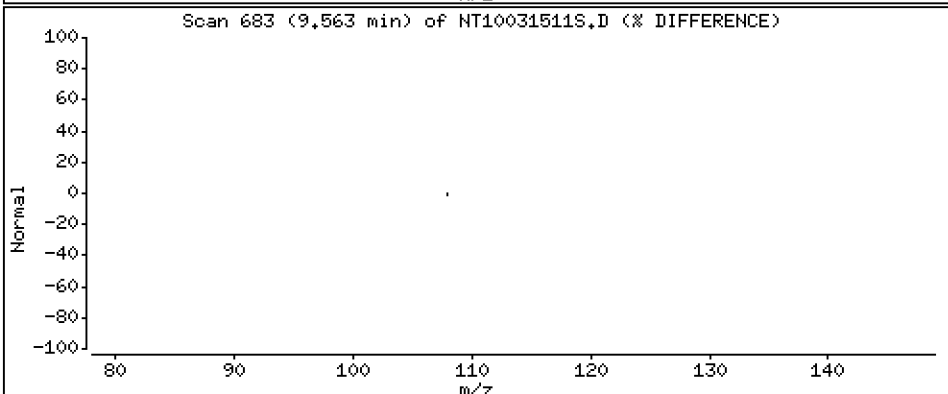
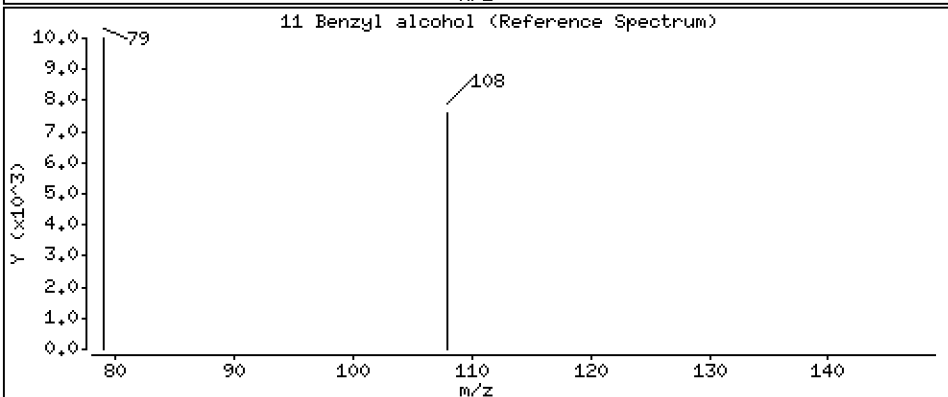
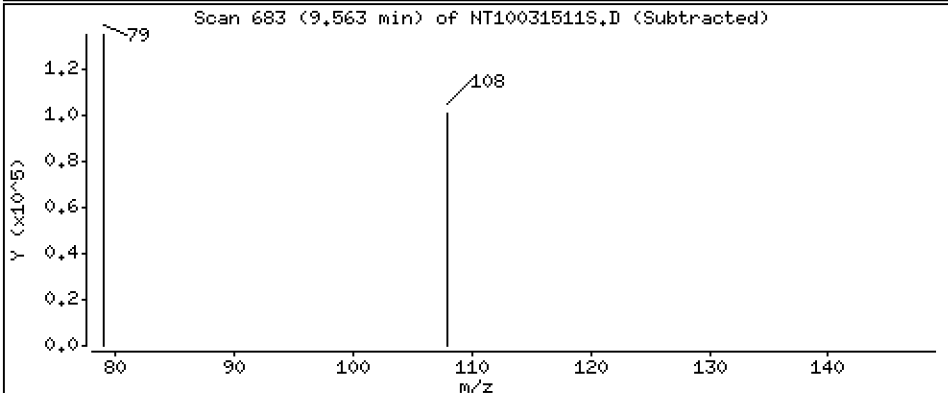
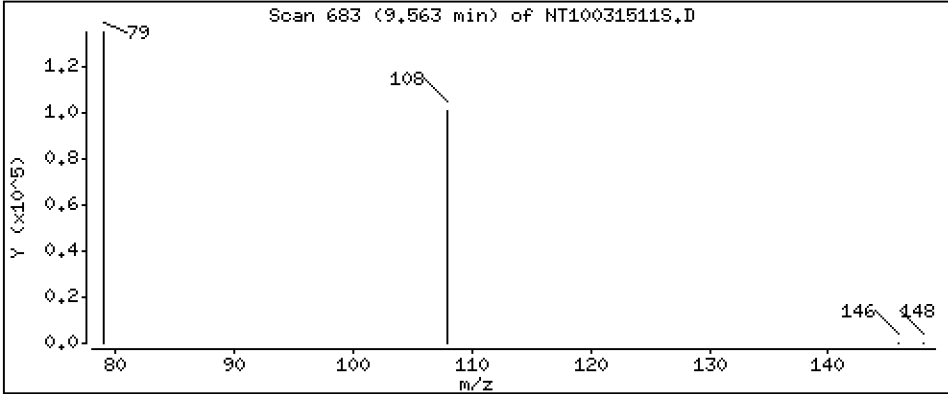
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 5.181 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

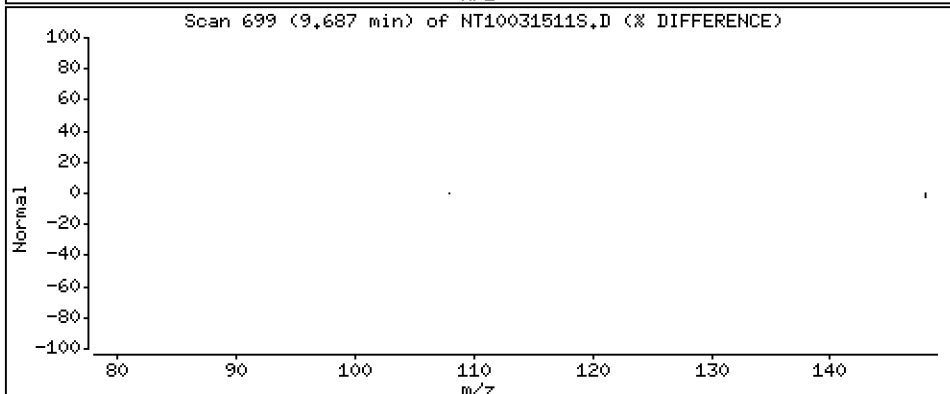
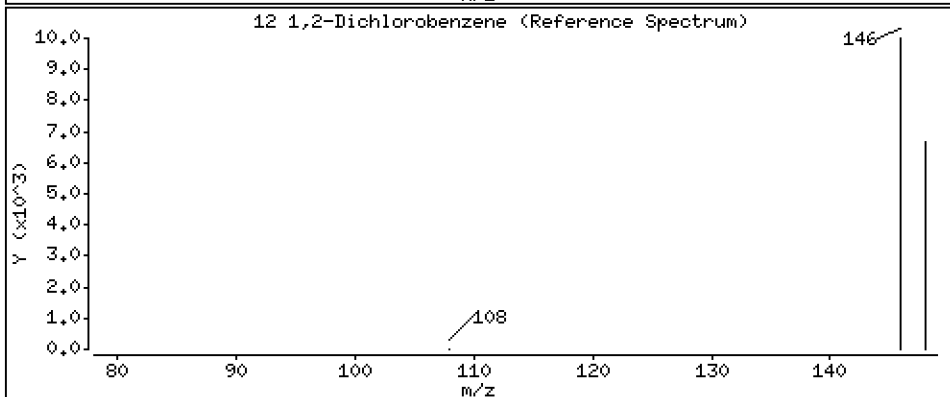
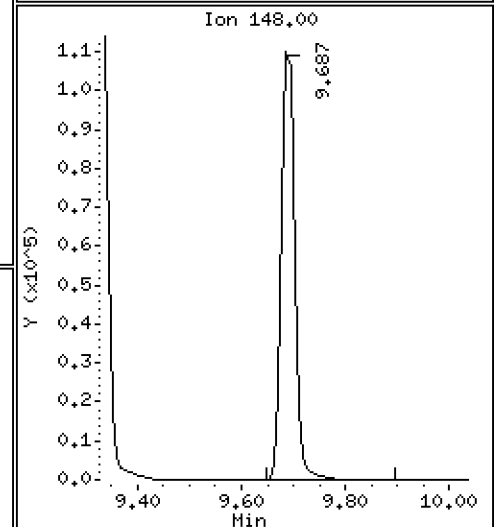
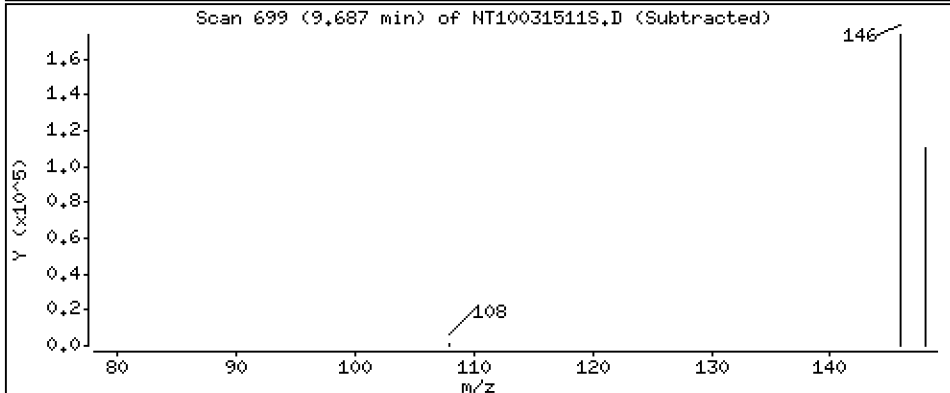
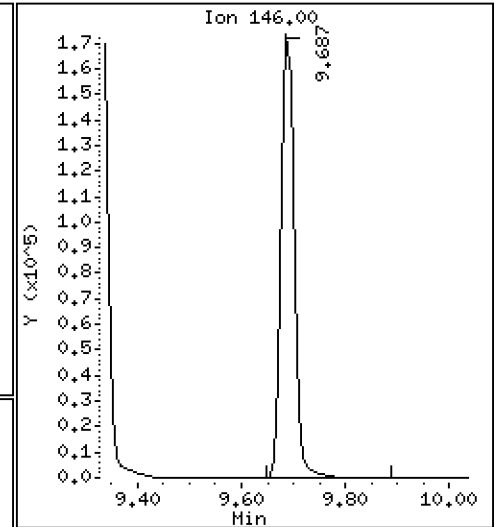
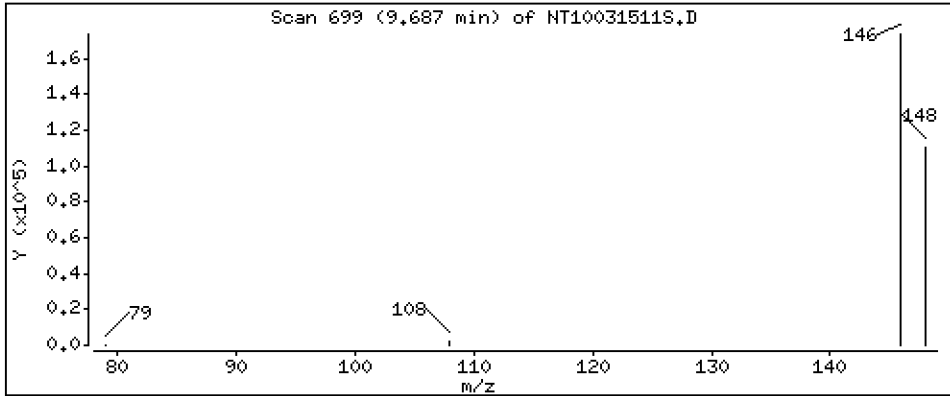
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 4.679 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

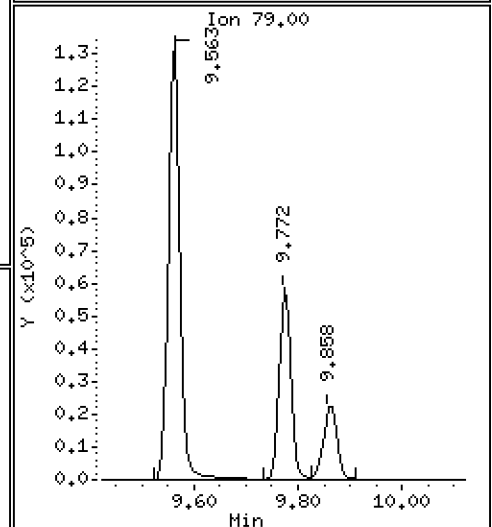
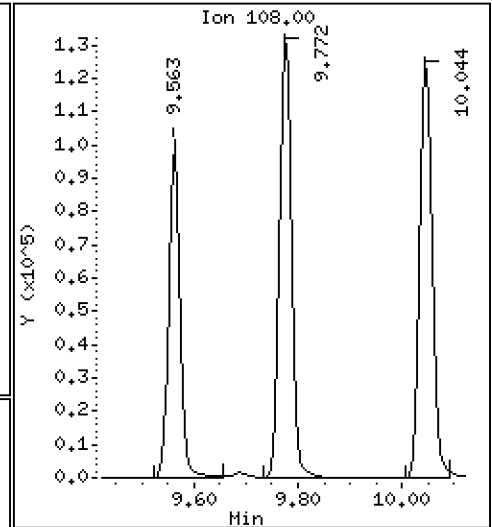
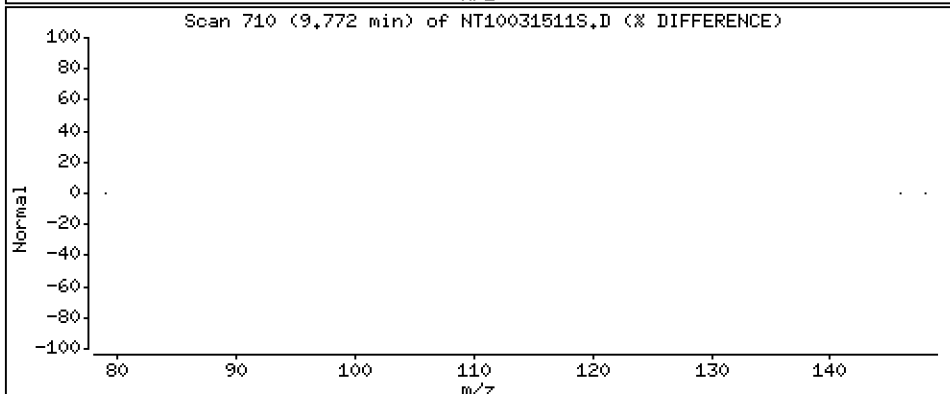
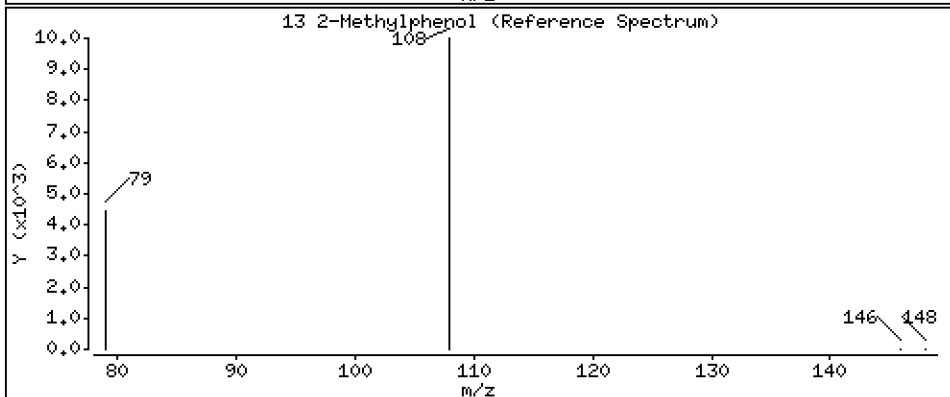
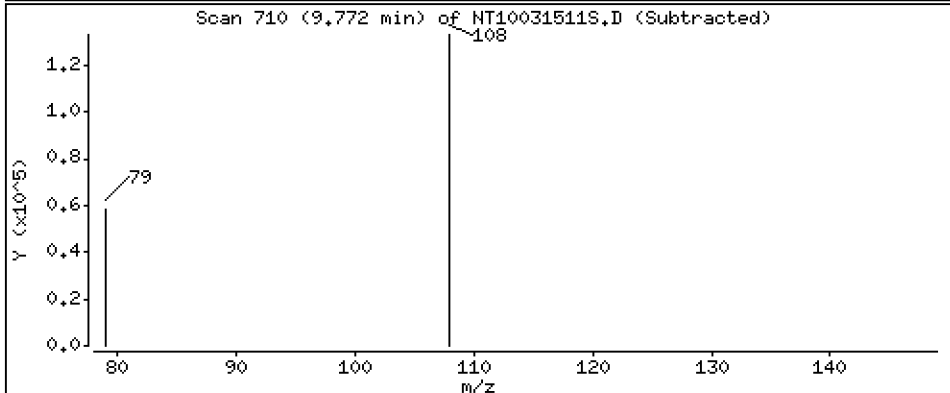
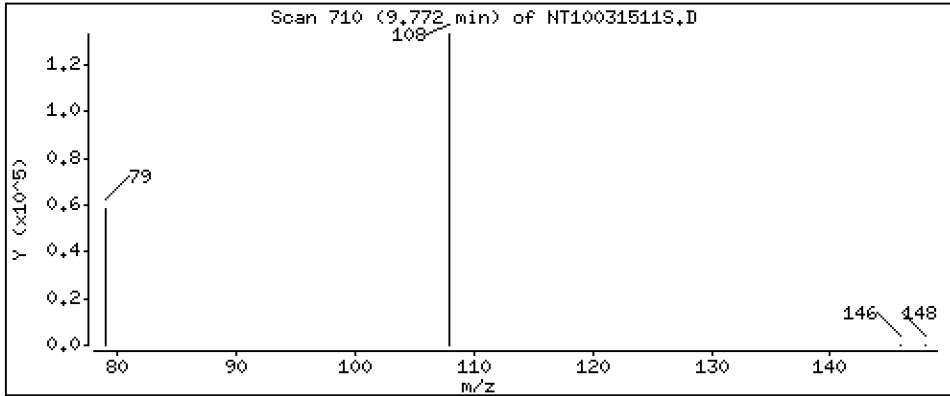
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.197 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

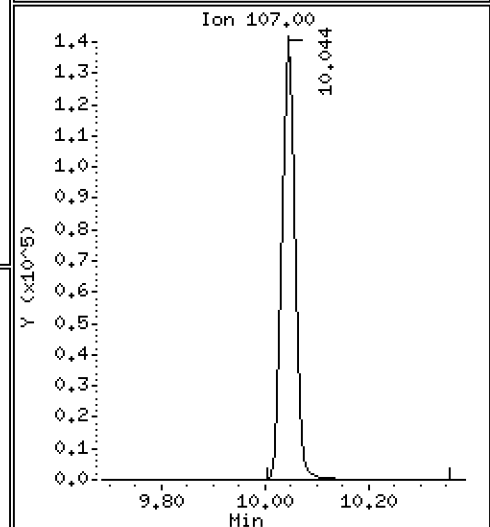
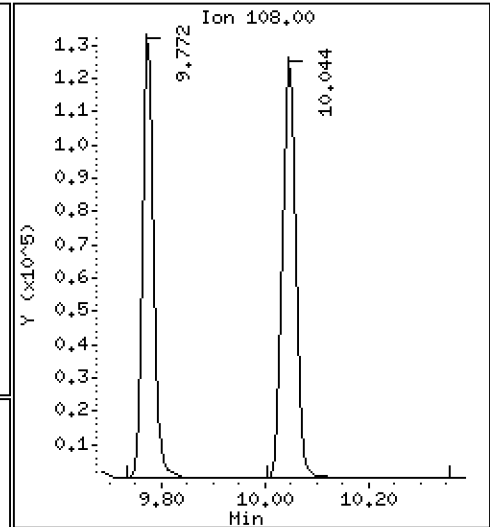
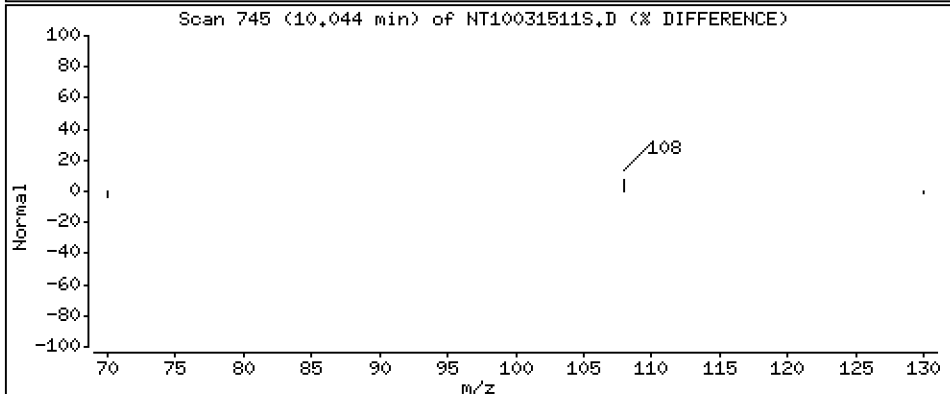
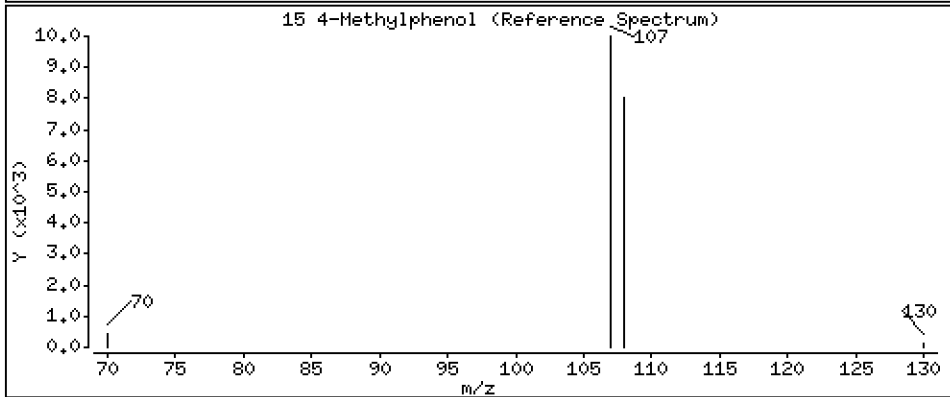
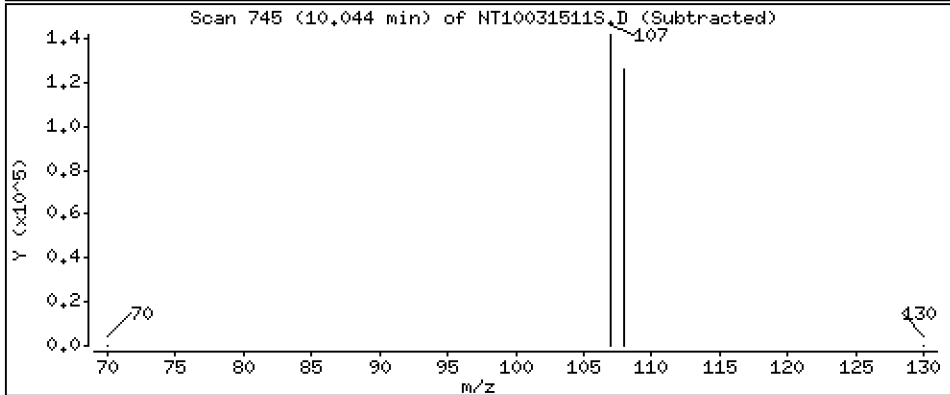
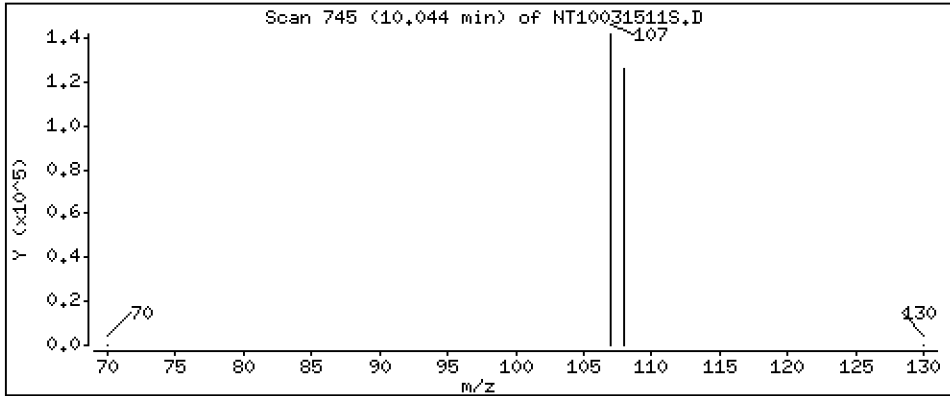
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 4.463 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

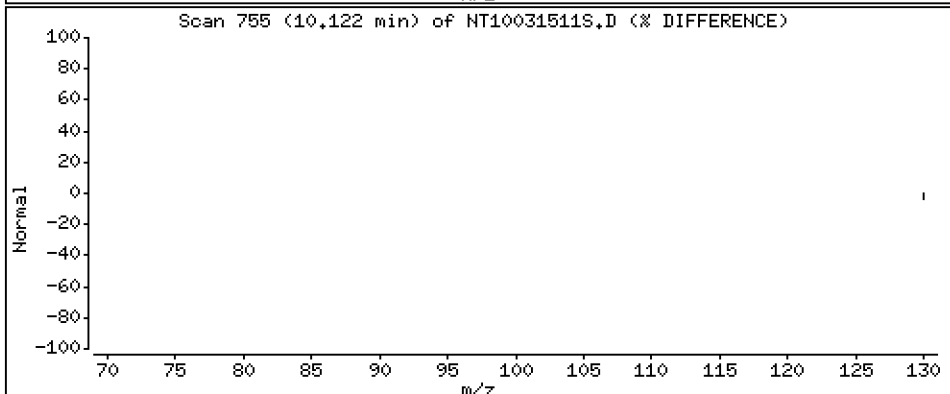
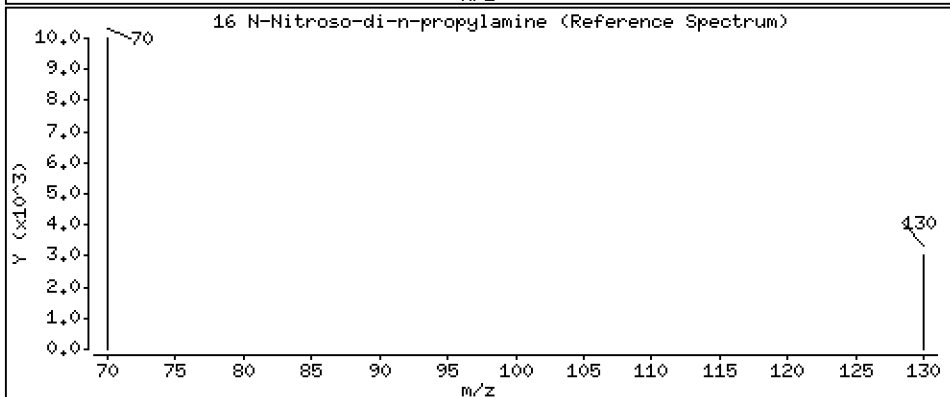
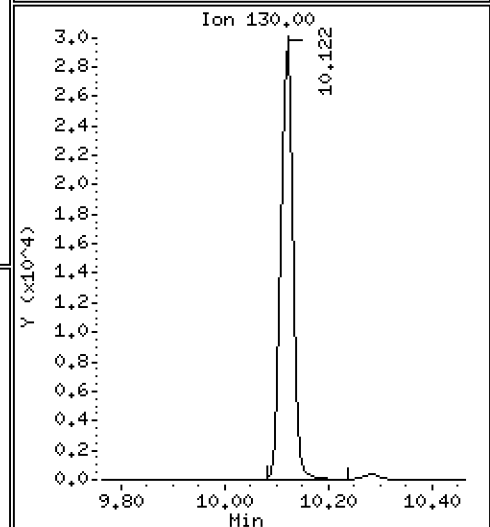
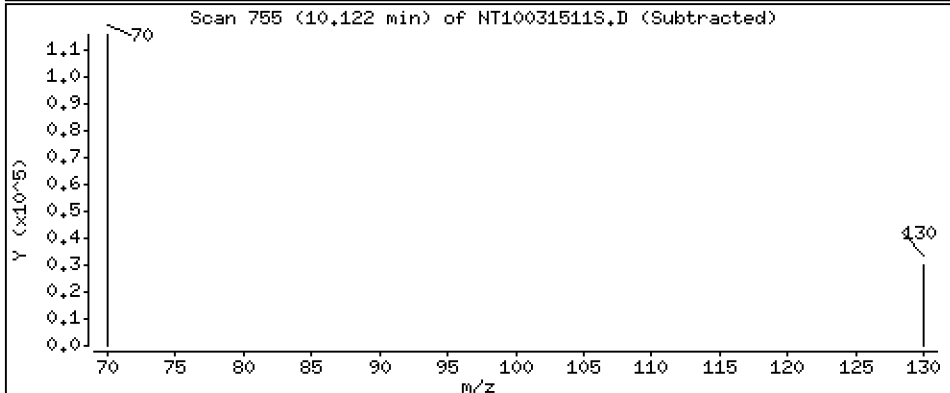
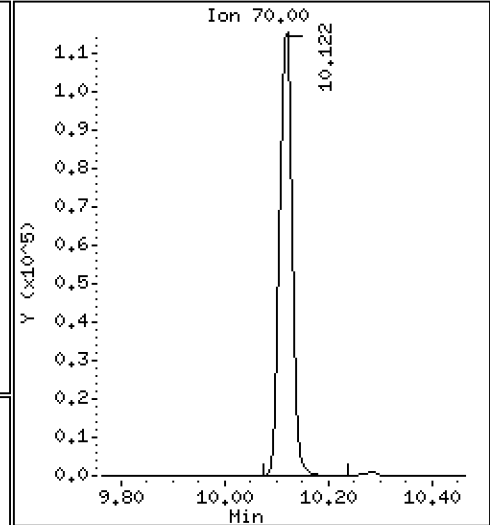
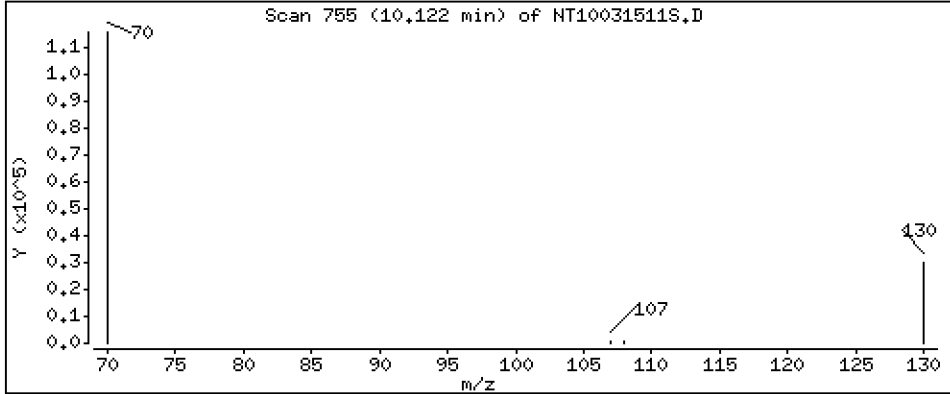
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,282 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

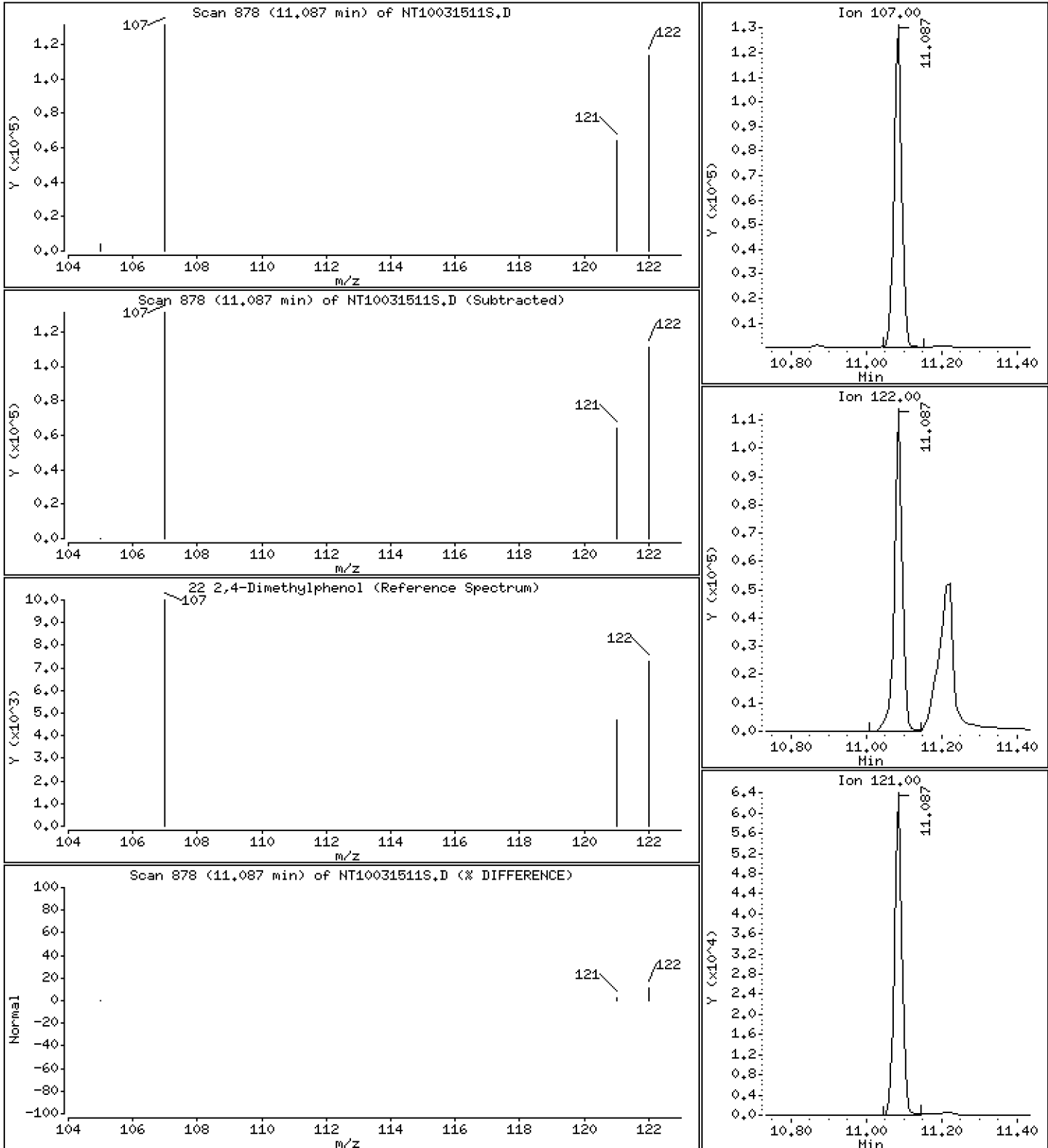
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 3,660 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

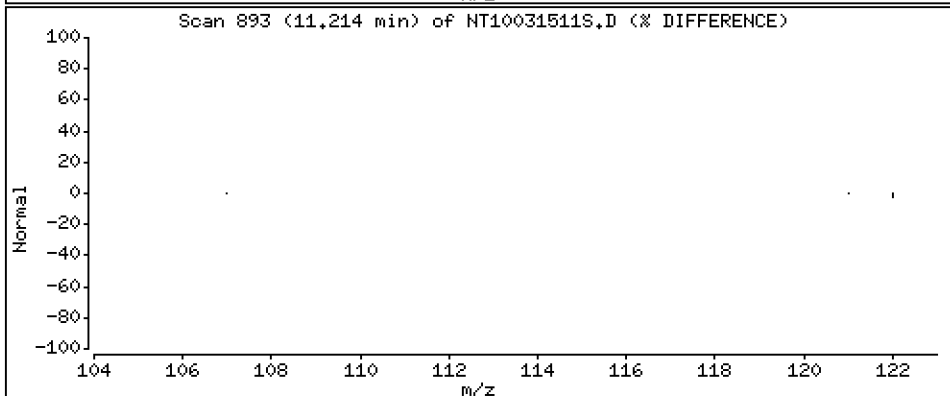
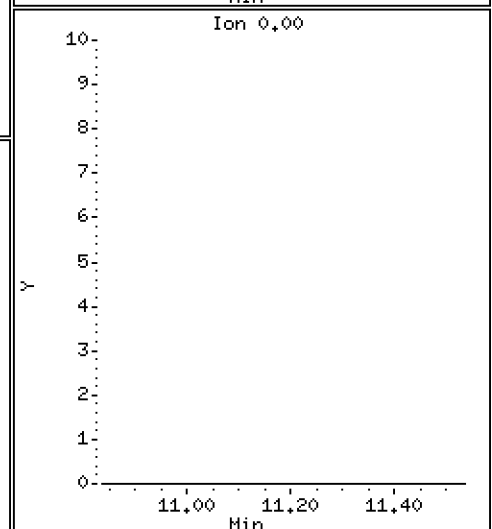
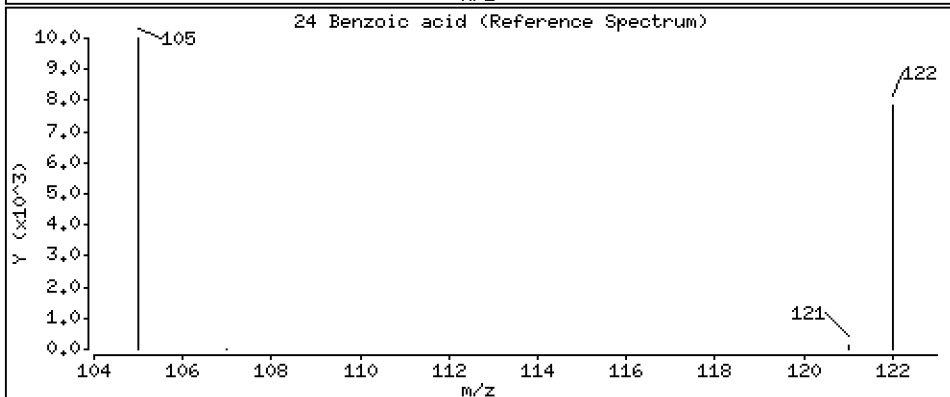
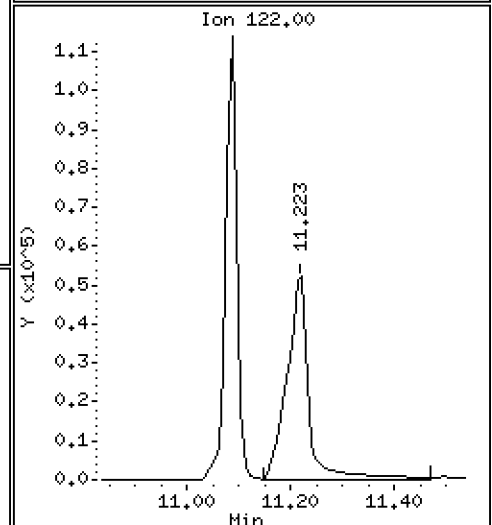
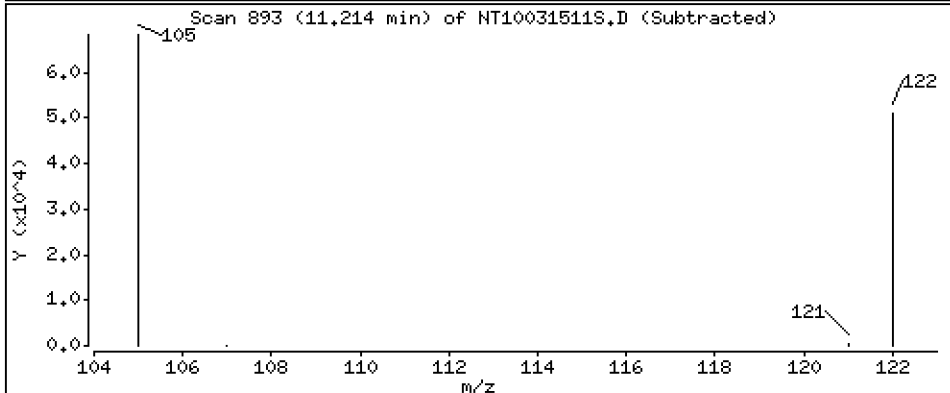
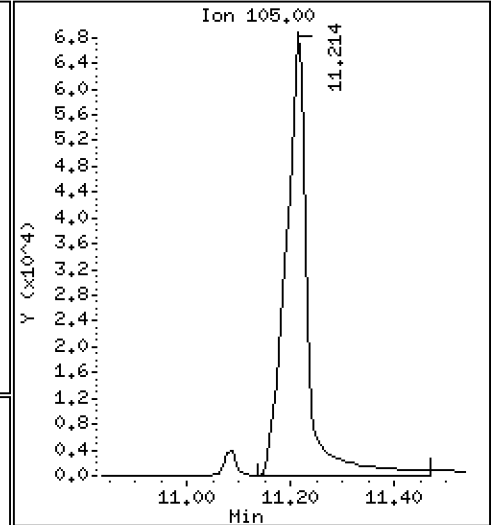
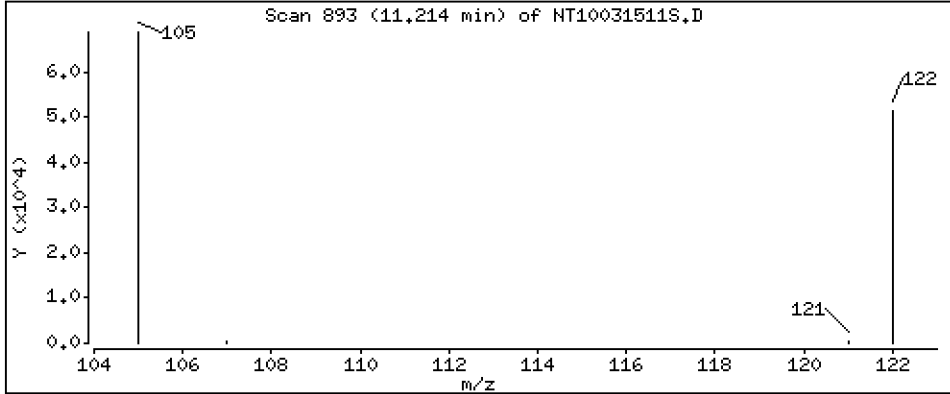
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 6.746 ug/L





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

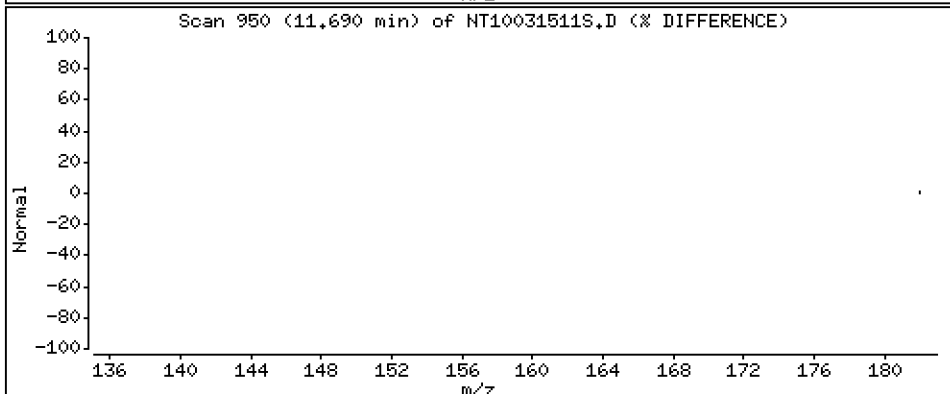
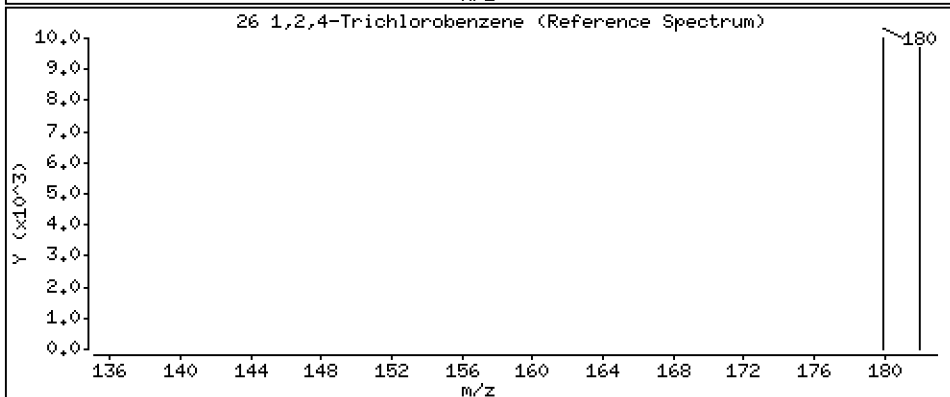
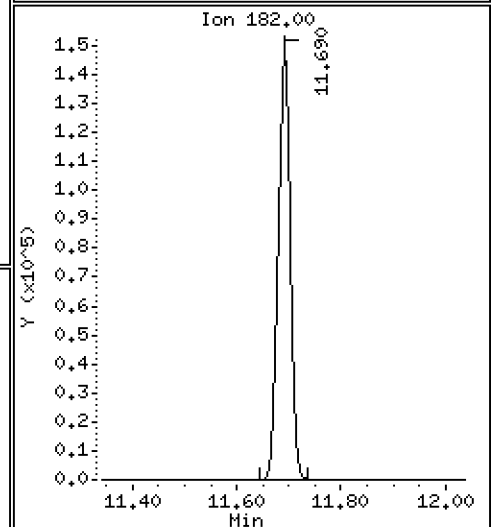
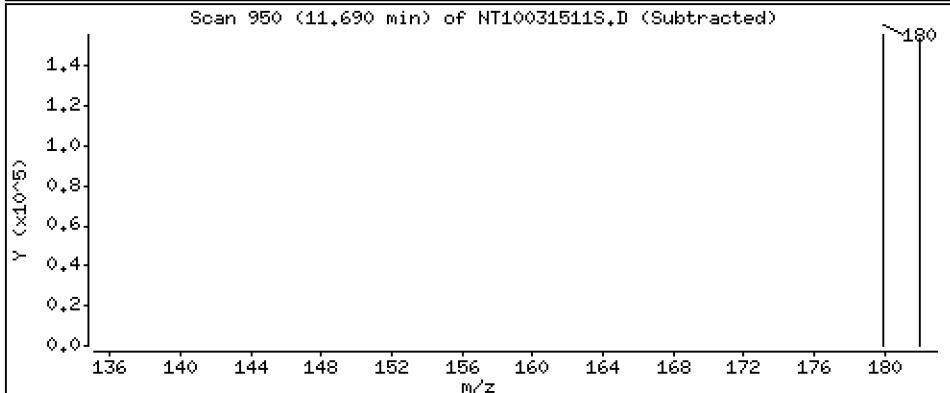
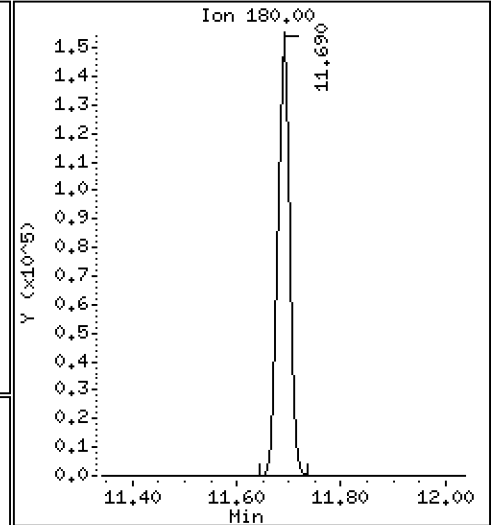
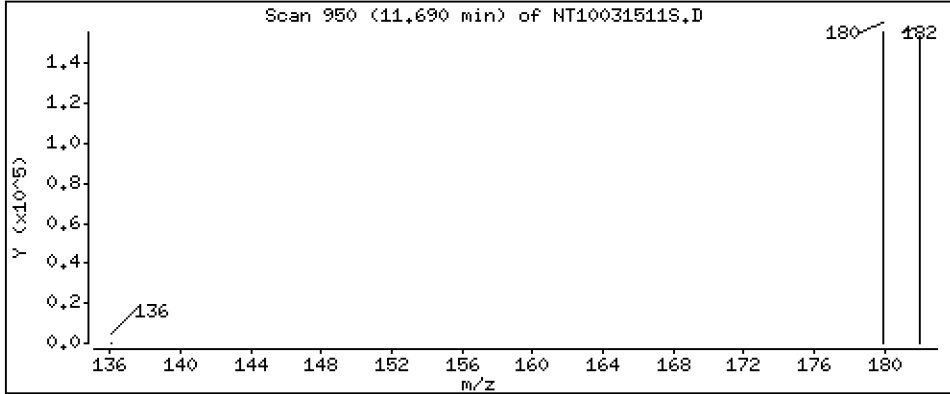
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

26 1,2,4-Trichlorobenzene

Concentration: 4.445 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

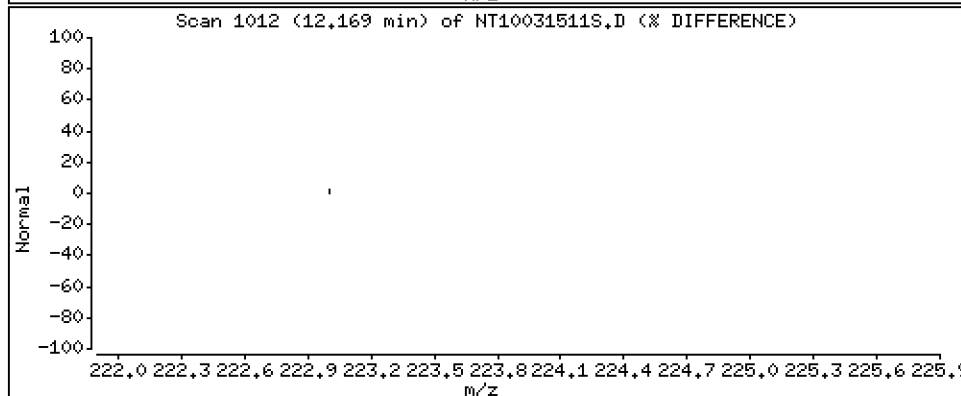
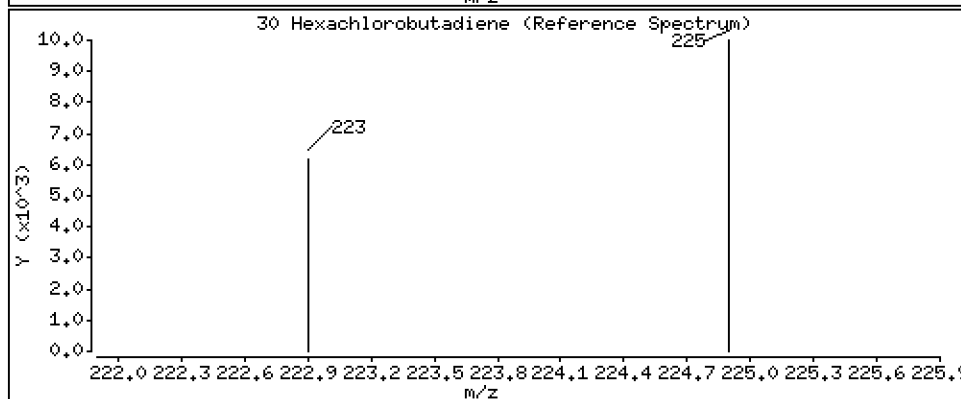
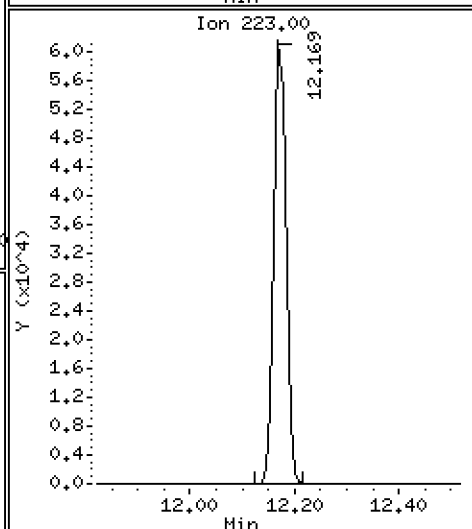
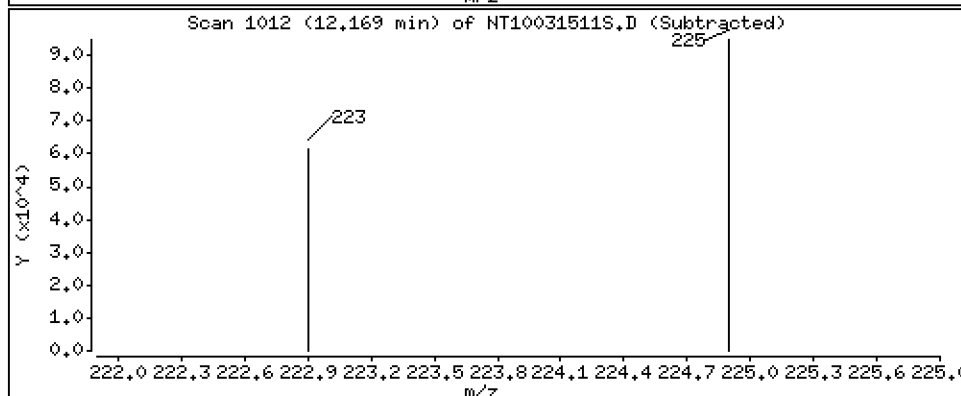
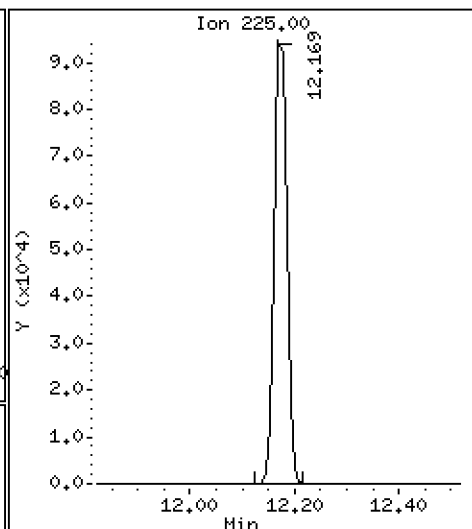
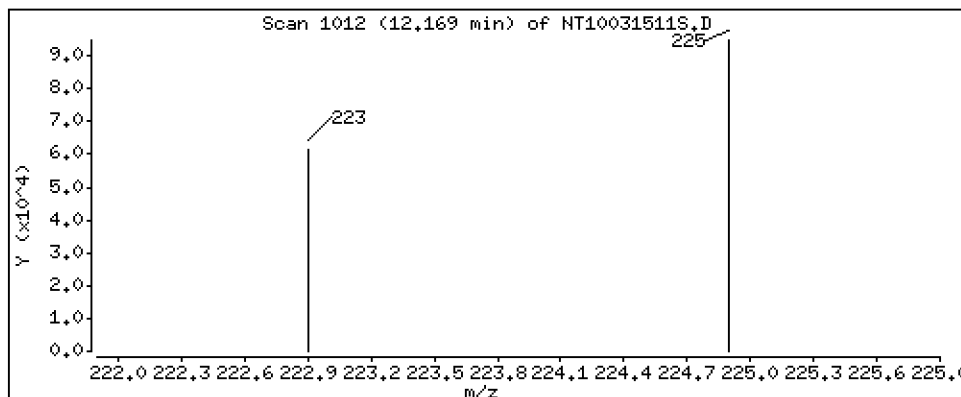
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,653 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

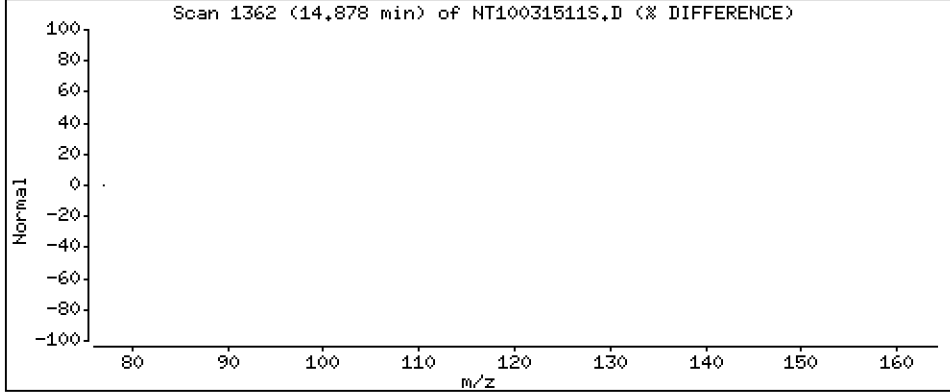
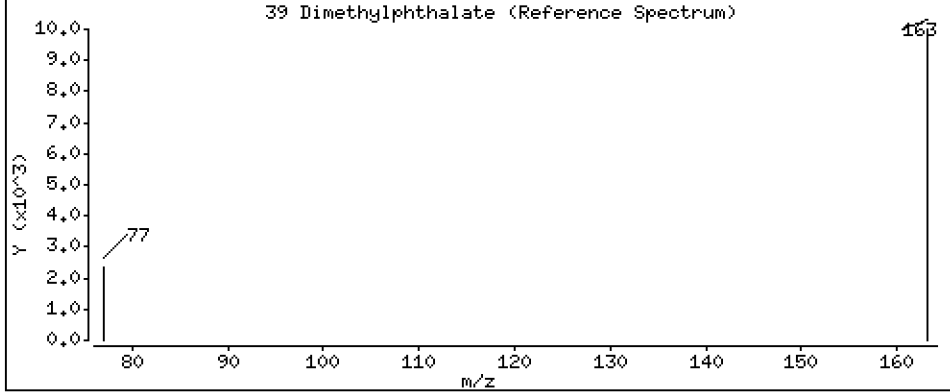
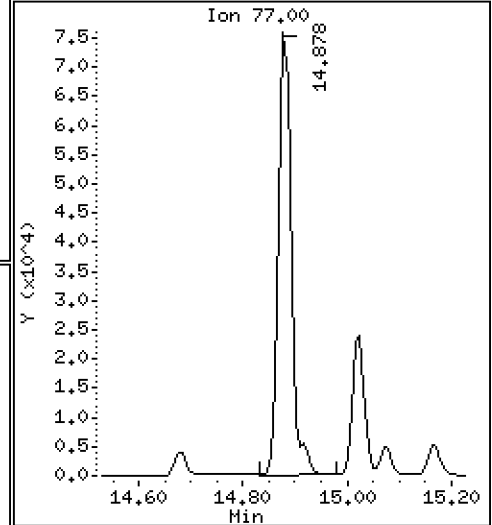
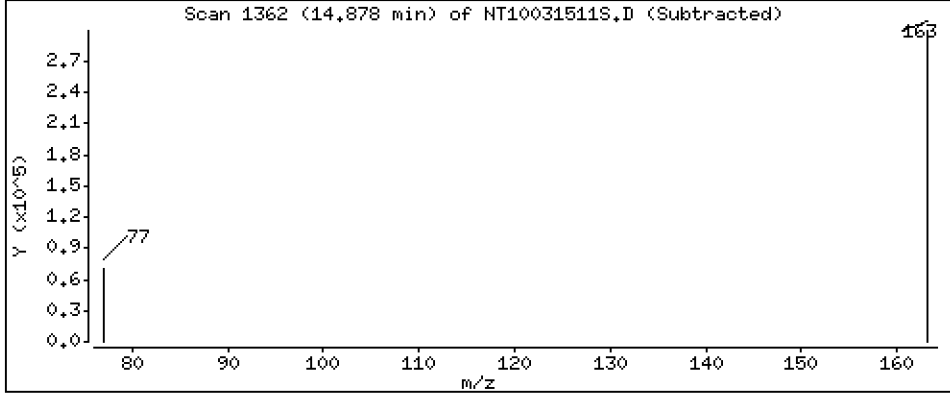
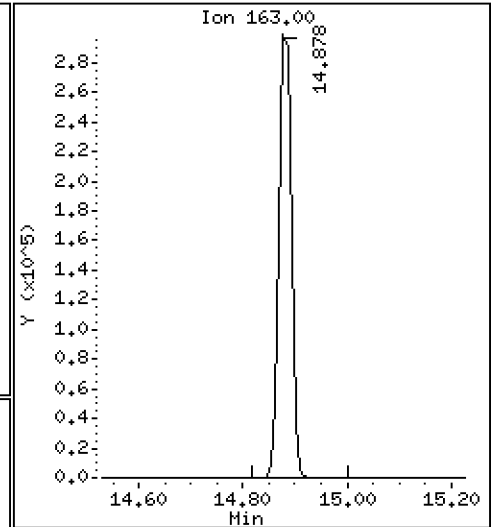
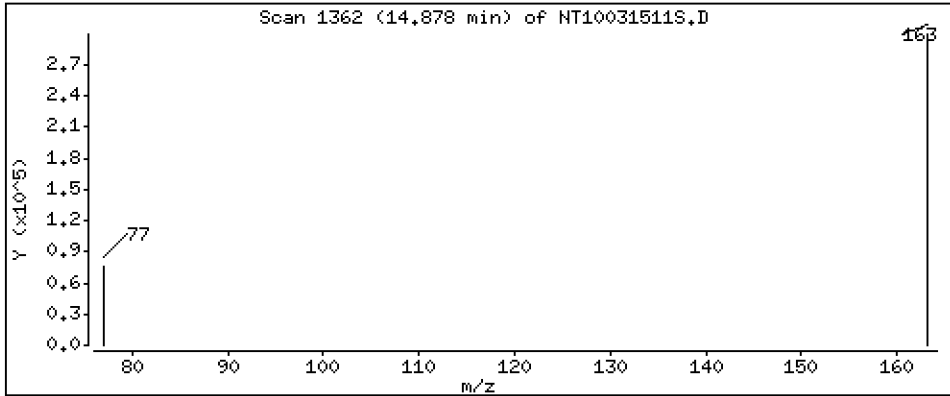
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,948 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

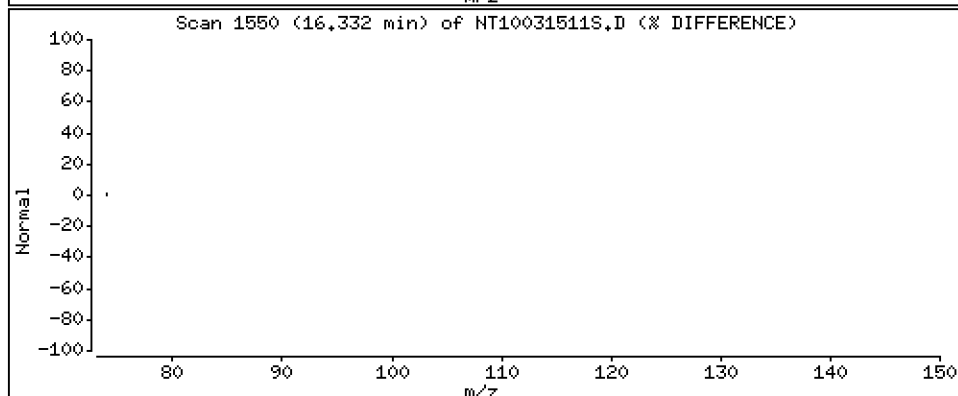
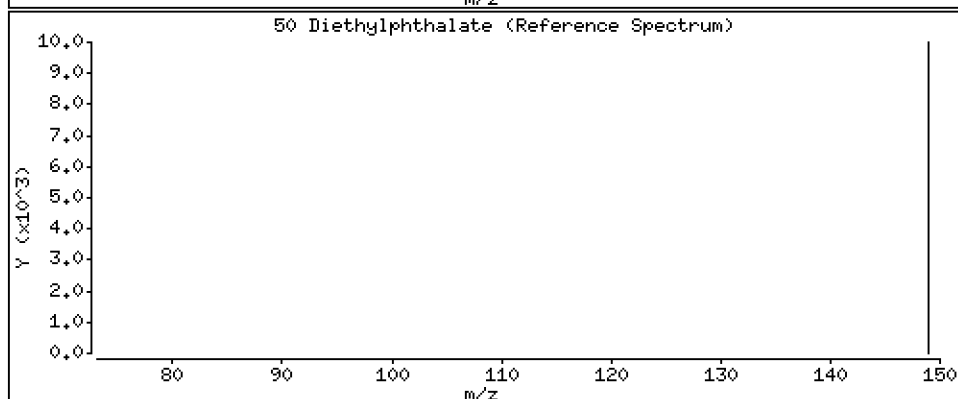
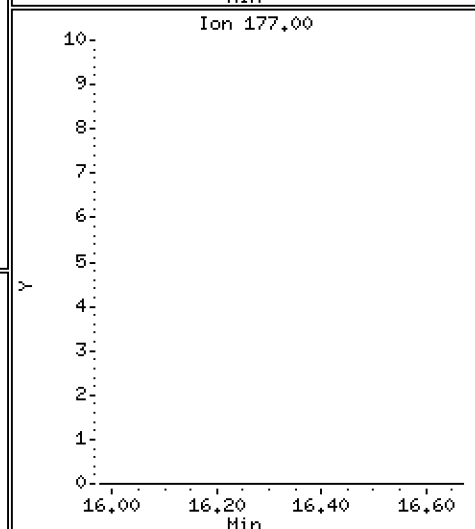
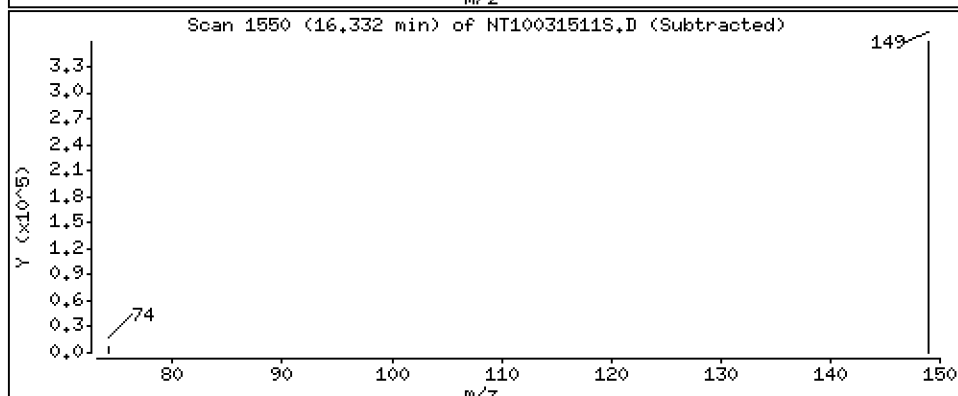
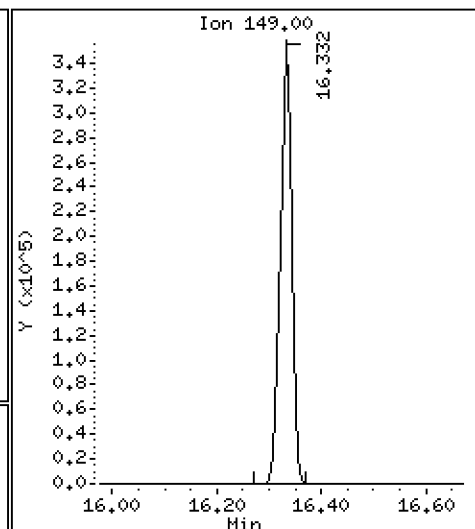
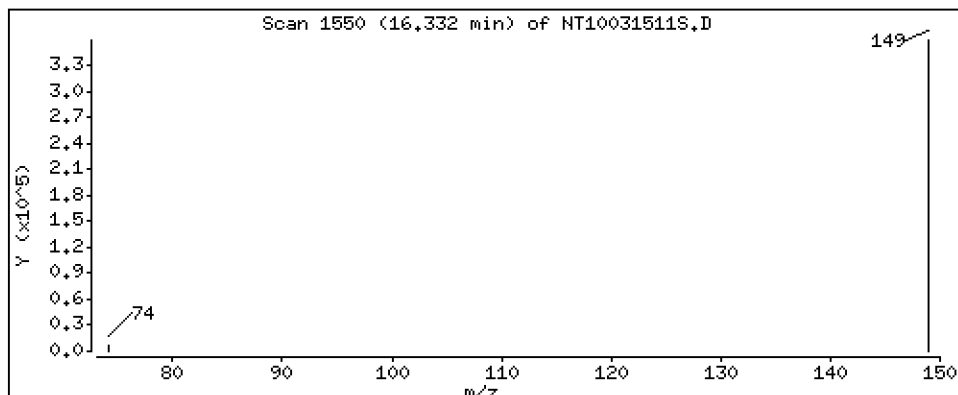
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,364 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

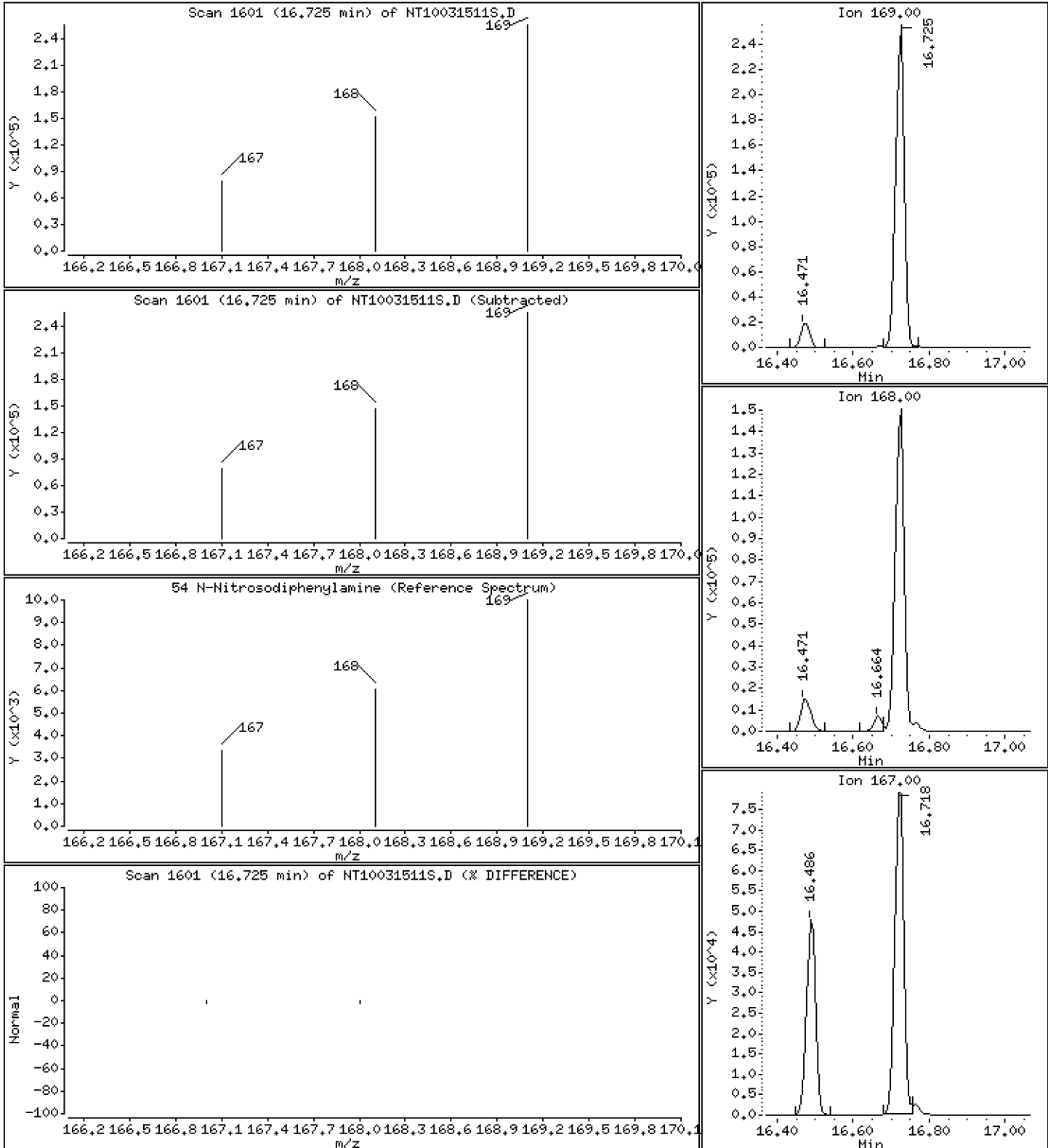
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 5.080 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

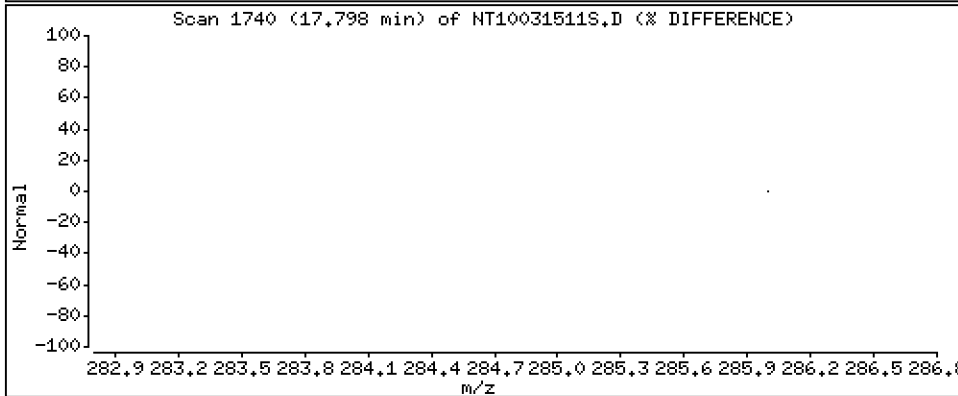
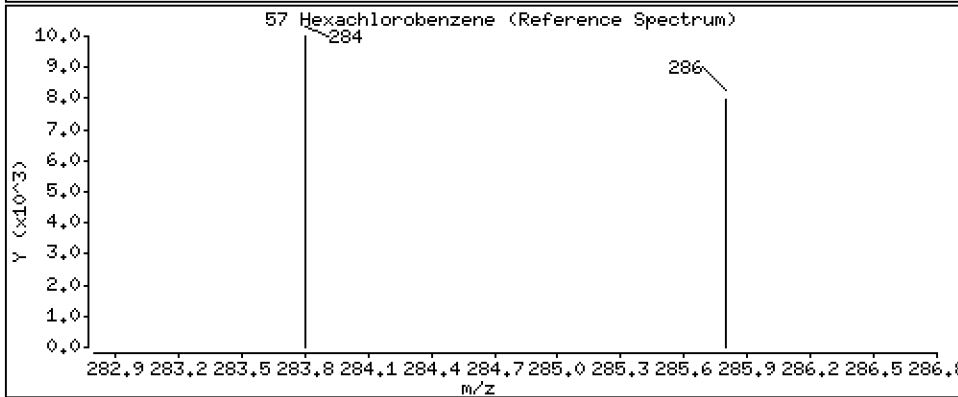
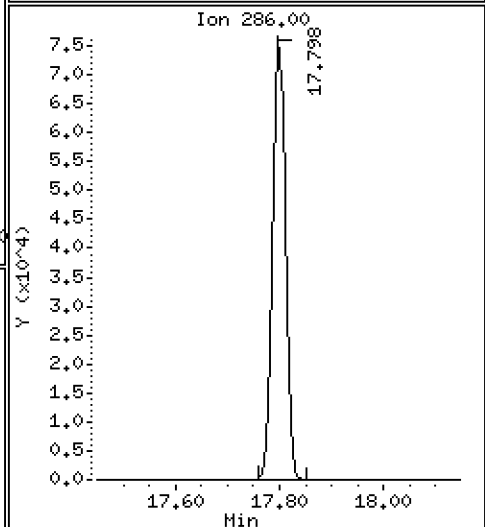
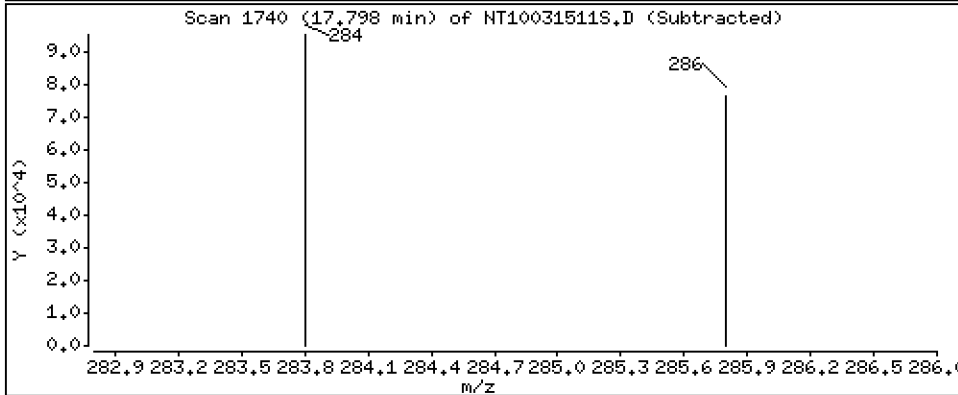
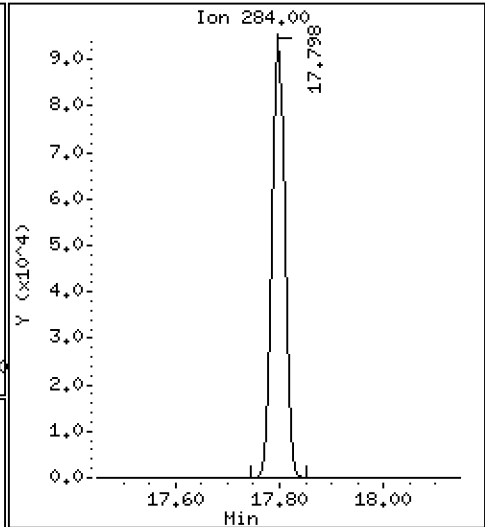
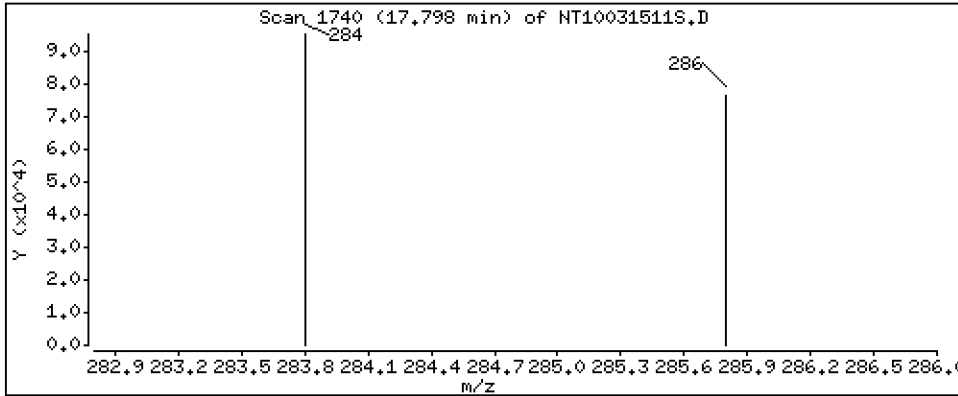
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,614 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

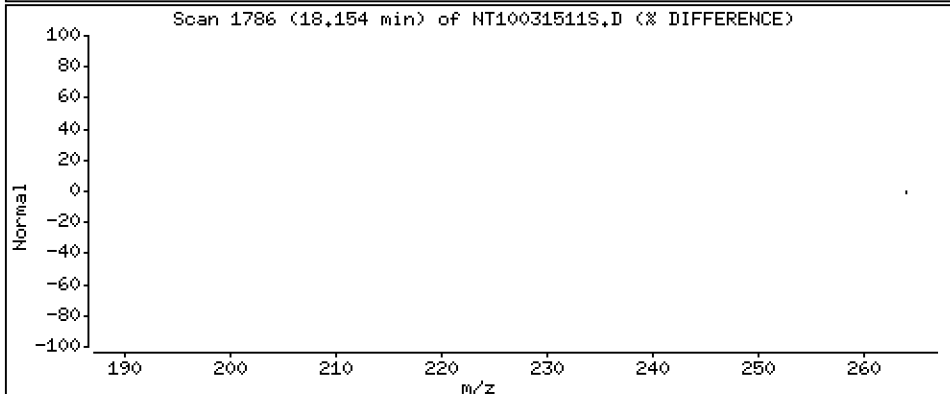
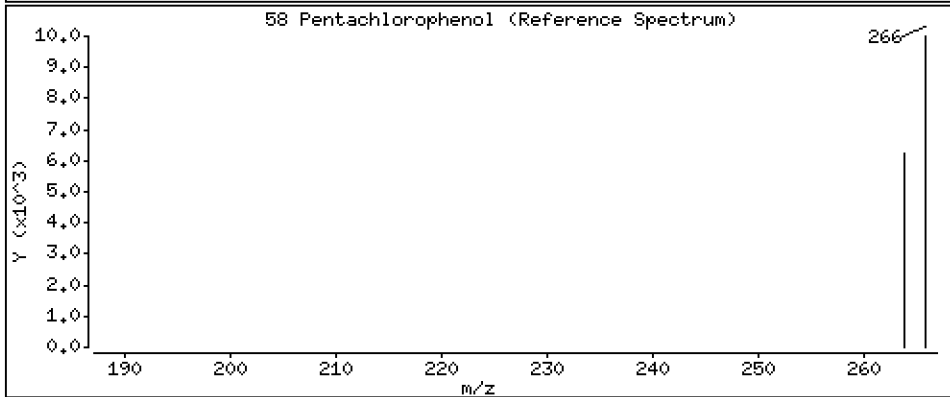
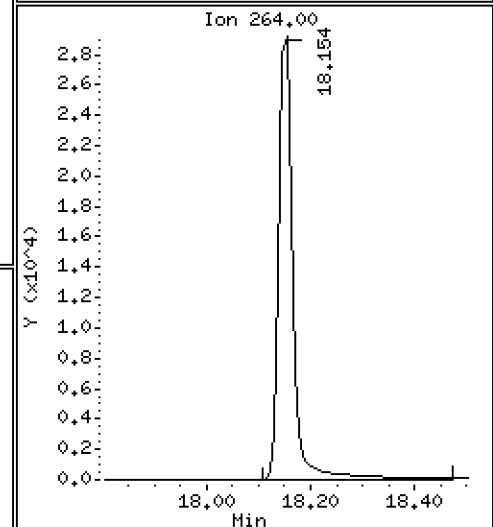
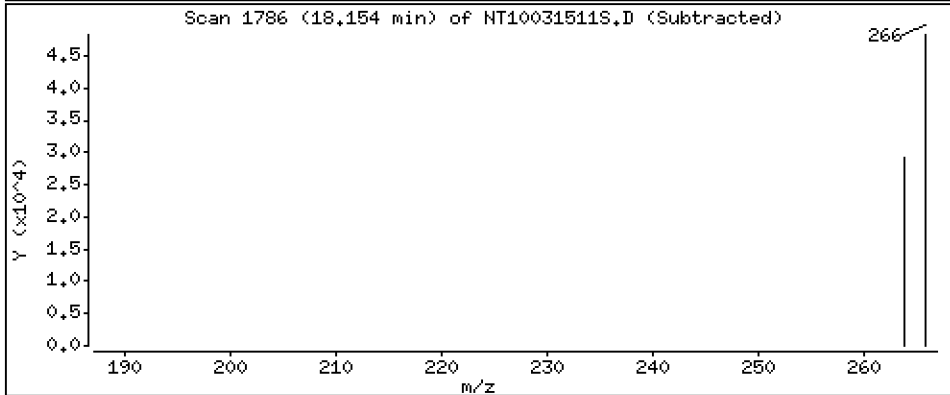
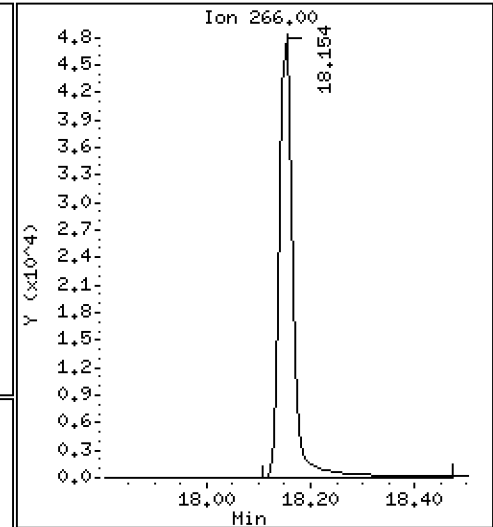
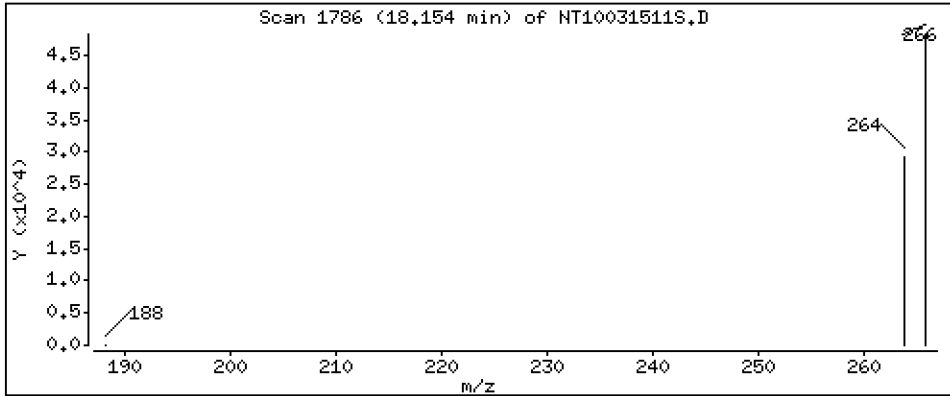
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 4,418 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

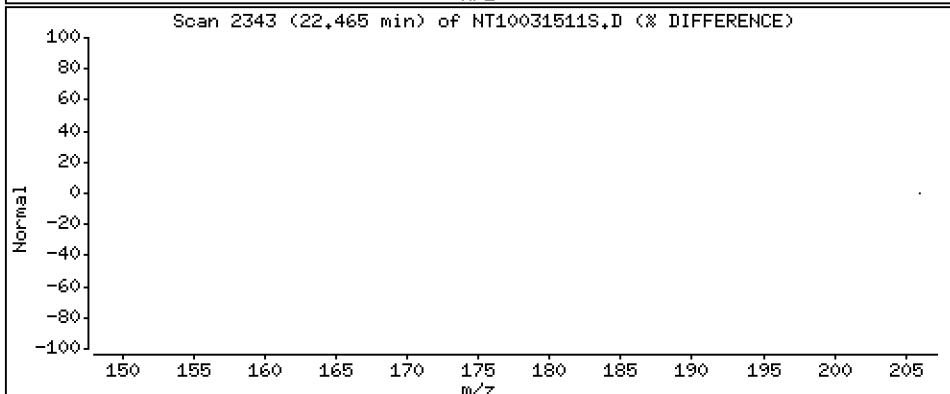
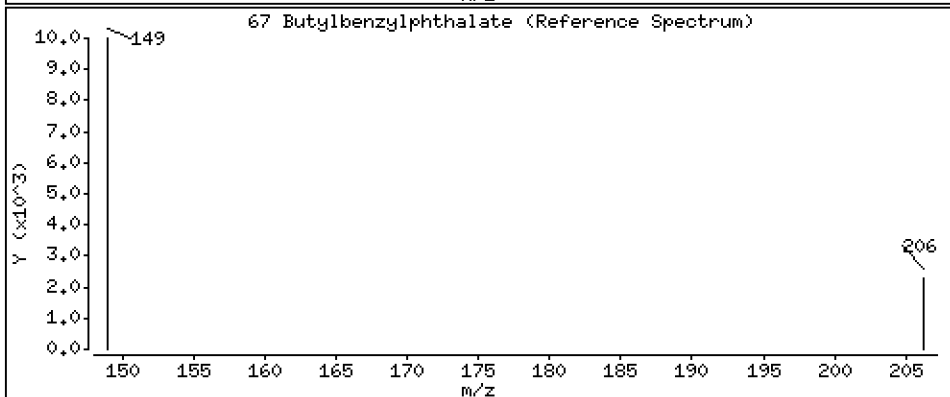
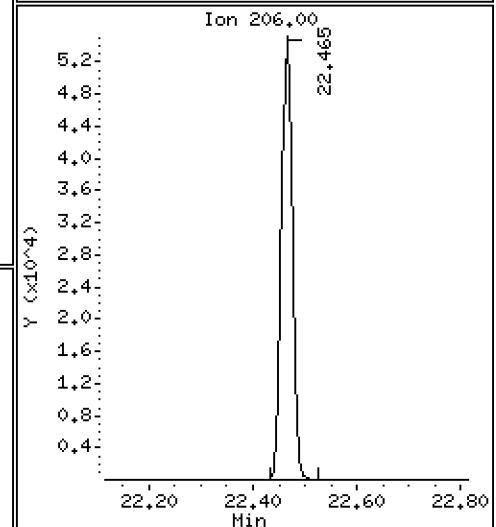
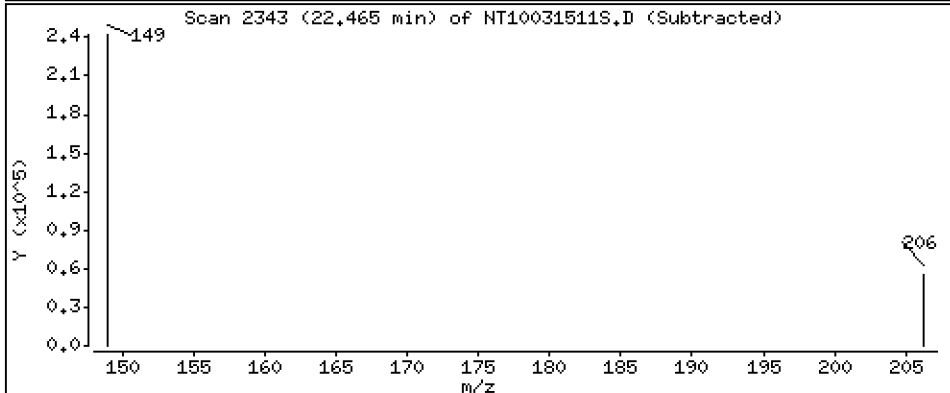
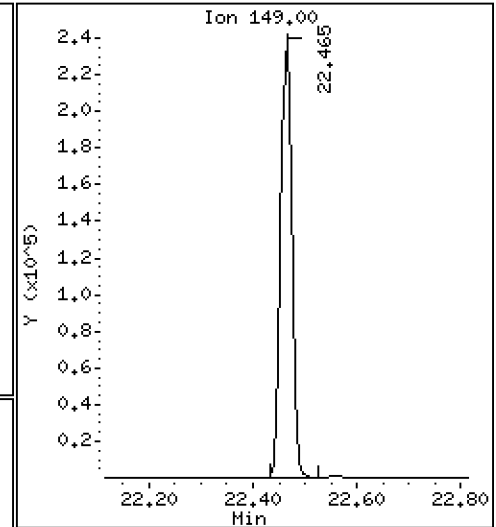
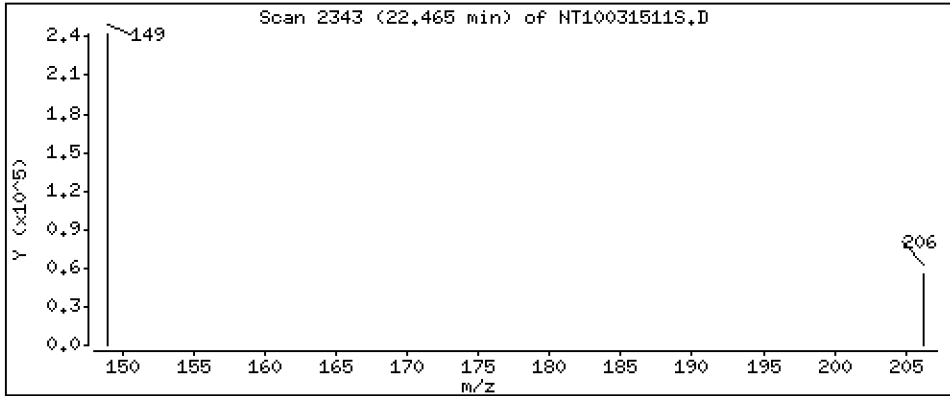
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,121 ug/L





Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

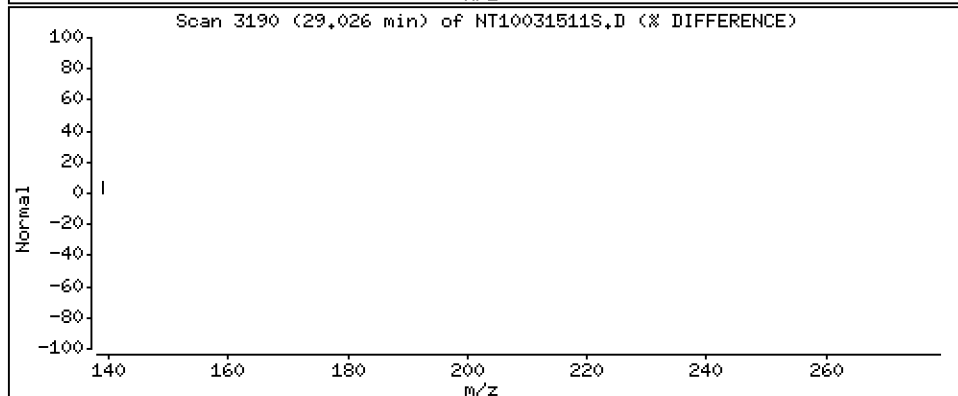
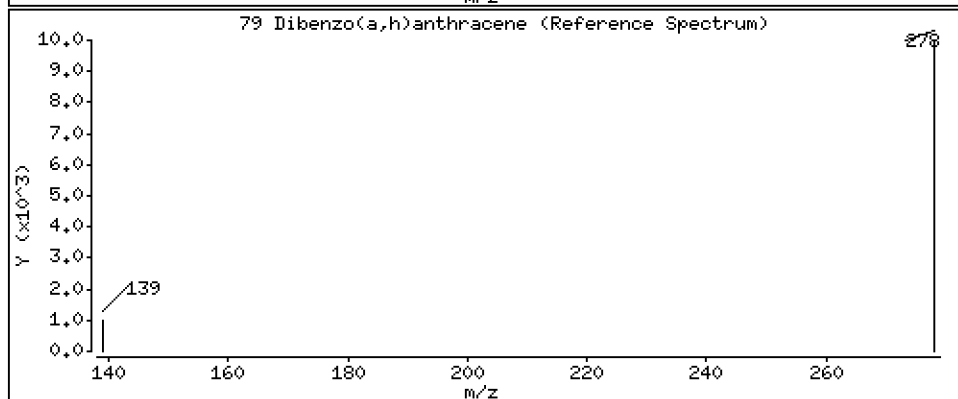
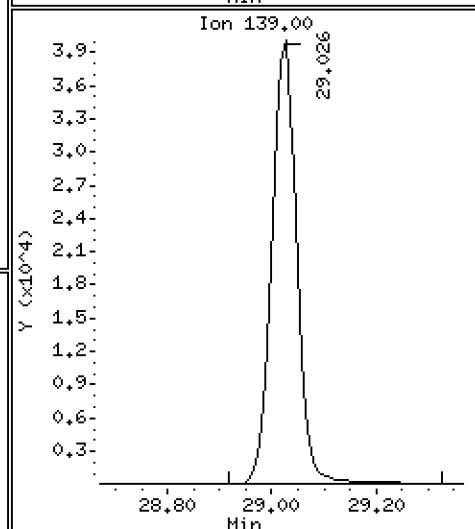
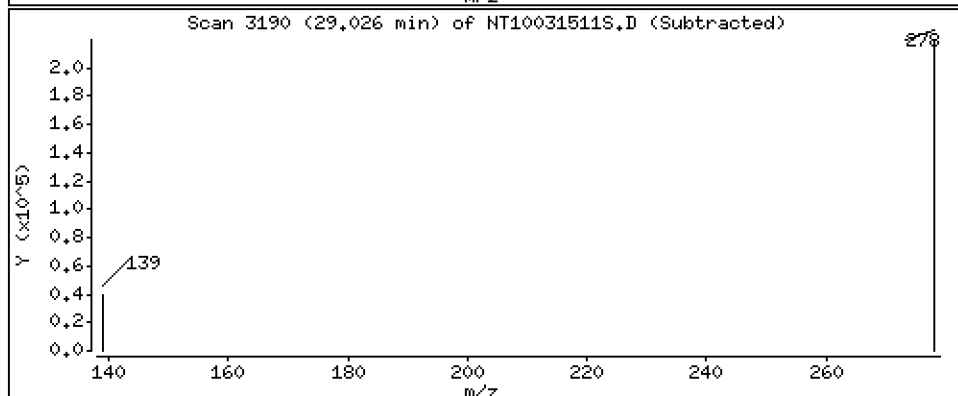
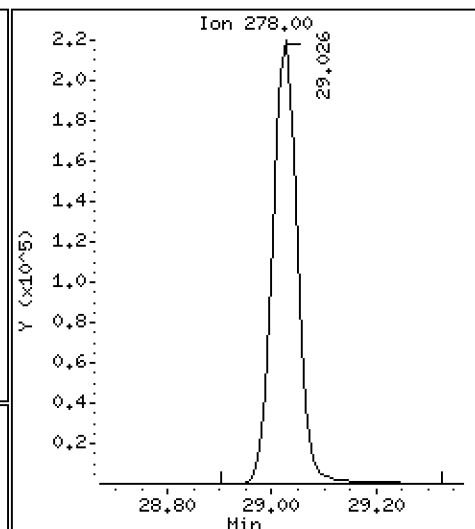
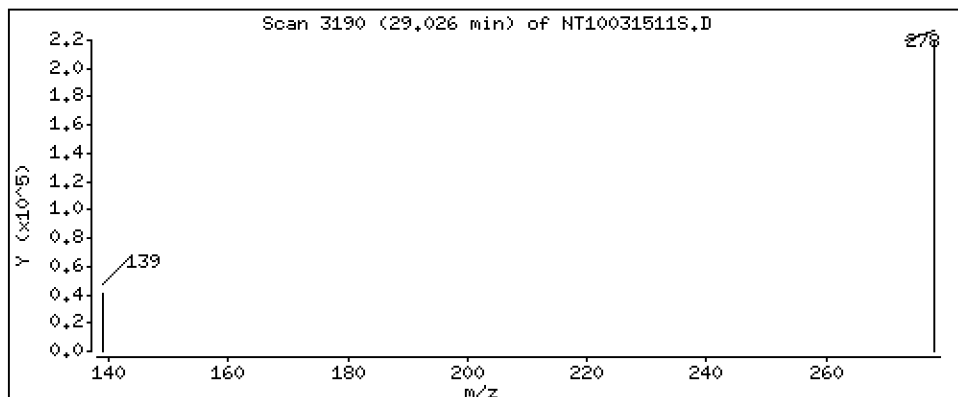
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,238 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

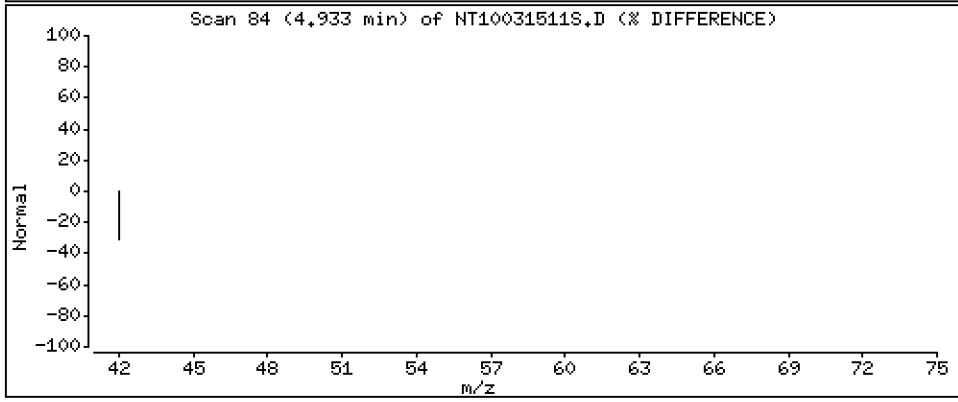
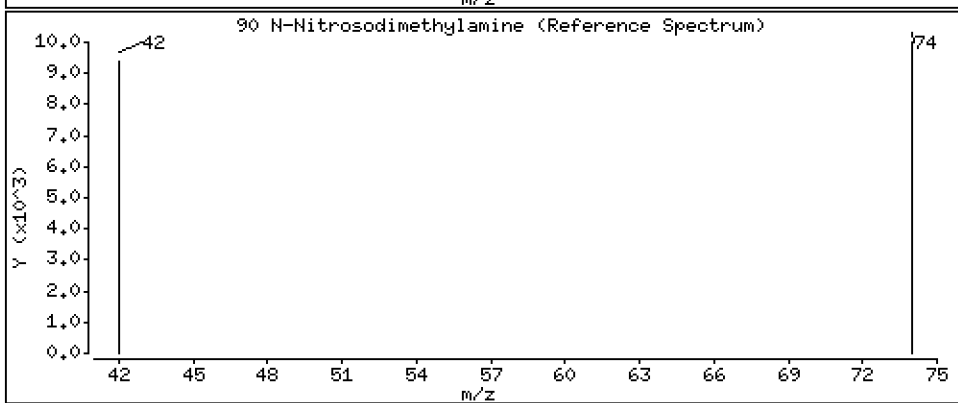
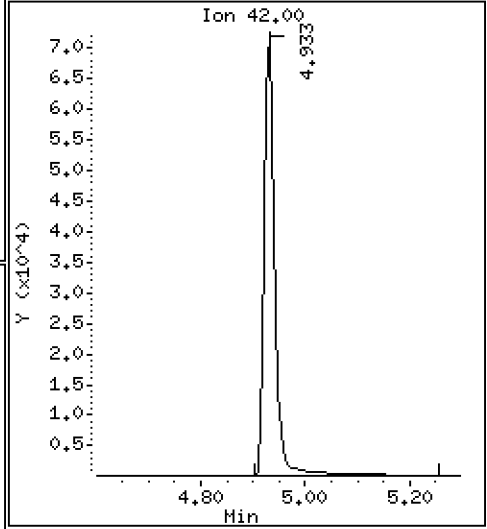
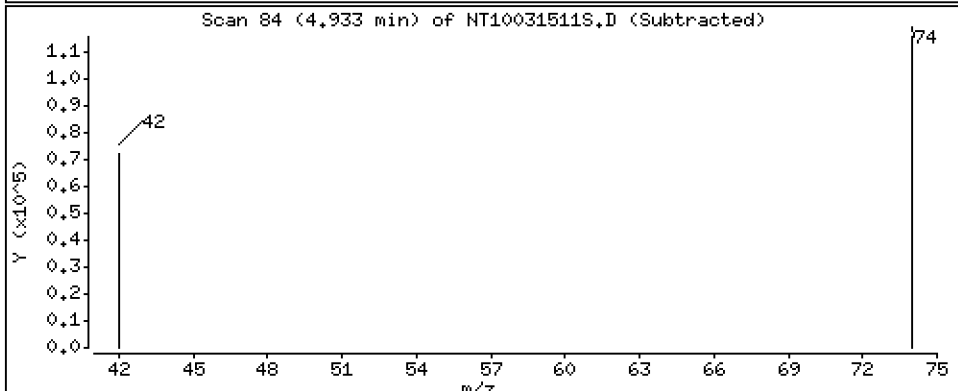
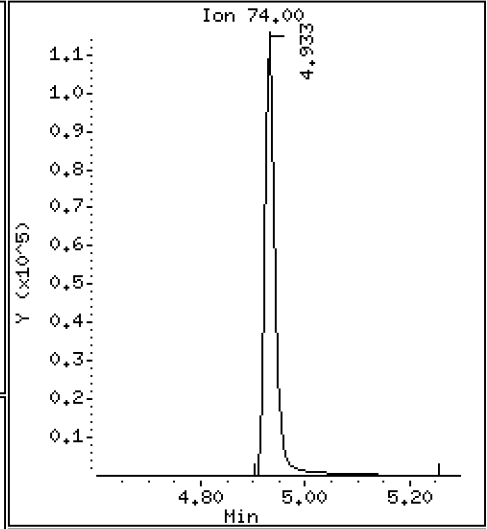
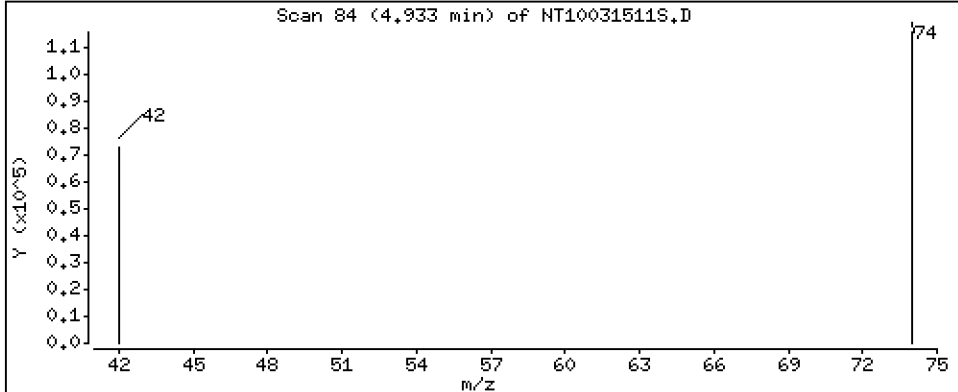
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 5.096 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D  
 Lab Smp Id: SLC0238-SCV1  
 Inj Date : 16-MAR-2023 02:16 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : SLC0238-SCV1  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: VANS-201906

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS |         |
|-------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|---------|
|                               |       |     |                        |        |         |          | ON-COLUMN      | FINAL   |
|                               | MASS  |     |                        |        |         |          | (ug/mL)        | ( ug/L) |
| \$ 1 2-Fluorophenol           | 112   |     | Compound Not Detected. |        |         |          |                |         |
| 3 Phenol                      | 94    |     | 8.664                  | 8.664  | (0.931) | 303581   | 4.37299        | 4.373   |
| 7 1,3-Dichlorobenzene         | 146   |     | 9.236                  | 9.236  | (0.992) | 301605   | 4.64290        | 4.643   |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.306                  | 9.298  | (1.000) | 166866   | 4.00000        |         |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.329                  | 9.329  | (1.002) | 303390   | 4.83813        | 4.838   |
| 11 Benzyl alcohol             | 79    |     | 9.562                  | 9.570  | (1.028) | 208505   | 5.18071        | 5.181   |
| 12 1,2-Dichlorobenzene        | 146   |     | 9.686                  | 9.686  | (1.041) | 288539   | 4.67875        | 4.679   |
| 13 2-Methylphenol             | 108   |     | 9.772                  | 9.772  | (1.050) | 201888   | 4.19698        | 4.197   |
| 15 4-Methylphenol             | 108   |     | 10.043                 | 10.036 | (1.079) | 223083   | 4.46301        | 4.463   |
| 16 N-Nitroso-di-n-propylamine | 70    |     | 10.121                 | 10.113 | (1.088) | 186707   | 5.28174        | 5.282   |
| 22 2,4-Dimethylphenol         | 107   |     | 11.086                 | 11.087 | (0.942) | 193654   | 3.66015        | 3.660   |
| 24 Benzoic acid               | 105   |     | 11.214                 | 11.189 | (0.952) | 200487   | 6.74612        | 6.746   |
| 26 1,2,4-Trichlorobenzene     | 180   |     | 11.690                 | 11.690 | (0.993) | 236605   | 4.44540        | 4.445   |
| * 27 Naphthalene-d8           | 136   |     | 11.775                 | 11.775 | (1.000) | 612104   | 4.00000        |         |
| 30 Hexachlorobutadiene        | 225   |     | 12.169                 | 12.169 | (1.033) | 150581   | 4.65339        | 4.653   |
| 39 Dimethylphthalate          | 163   |     | 14.877                 | 14.877 | (0.967) | 472341   | 4.94766        | 4.948   |
| * 42 Acenaphthene-d10         | 162   |     | 15.388                 | 15.380 | (1.000) | 302524   | 4.00000        |         |
| 50 Diethylphthalate           | 149   |     | 16.331                 | 16.324 | (1.061) | 530540   | 5.36440        | 5.364   |
| 54 N-Nitrosodiphenylamine     | 169   |     | 16.725                 | 16.717 | (0.908) | 377357   | 5.08034        | 5.080   |
| 57 Hexachlorobenzene          | 284   |     | 17.798                 | 17.798 | (0.966) | 153405   | 4.61353        | 4.614   |

| Compounds                 | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                           |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>( ug/L) |
| 58 Pentachlorophenol      | 266       | 18.154 | 18.154 | (0.985) | 83223    | 4.41780              | 4.418            |
| * 59 Phenanthrene-d10     | 188       | 18.425 | 18.417 | (1.000) | 553619   | 4.00000              |                  |
| \$ 66 Terphenyl-d14       | 244       | 21.543 | 21.543 | (0.918) | 117      | 0.00154              | 0.001543 (RM)    |
| 67 Butylbenzylphthalate   | 149       | 22.464 | 22.465 | (0.958) | 332887   | 5.12147              | 5.121            |
| * 69 Chrysene-d12         | 240       | 23.455 | 23.455 | (1.000) | 465428   | 4.00000              |                  |
| * 77 Perylene-d12         | 264       | 26.188 | 26.188 | (1.000) | 532593   | 4.00000              |                  |
| 79 Dibenzo(a,h)anthracene | 278       | 29.026 | 29.019 | (1.108) | 722983   | 4.23762              | 4.238            |
| 90 N-Nitrosodimethylamine | 74        | 4.933  | 4.948  | (0.530) | 163555   | 5.09625              | 5.096            |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT10031511S.D  
 Lab Smp Id: SLC0238-SCV1  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m  
 Misc Info:

Calibration Date: 15-MAR-2023  
 Calibration Time: 23:06  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|---------------------|----------|------------|---------|--------|--------|
|                     |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze | 188081   | 94041      | 376162  | 166866 | -11.28 |
| 27 Naphthalene-d8   | 674549   | 337275     | 1349098 | 612104 | -9.26  |
| 42 Acenaphthene-d10 | 328275   | 164138     | 656550  | 302524 | -7.84  |
| 59 Phenanthrene-d10 | 597140   | 298570     | 1194280 | 553619 | -7.29  |
| 69 Chrysene-d12     | 466503   | 233252     | 933006  | 465428 | -0.23  |
| 77 Perylene-d12     | 518203   | 259102     | 1036406 | 532593 | 2.78   |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.30     | 8.80     | 9.80  | 9.31   | 0.08  |
| 27 Naphthalene-d8   | 11.77    | 11.27    | 12.27 | 11.78  | 0.01  |
| 42 Acenaphthene-d10 | 15.39    | 14.89    | 15.89 | 15.39  | 0.01  |
| 59 Phenanthrene-d10 | 18.42    | 17.92    | 18.92 | 18.43  | 0.00  |
| 69 Chrysene-d12     | 23.45    | 22.95    | 23.95 | 23.46  | 0.00  |
| 77 Perylene-d12     | 26.19    | 25.69    | 26.69 | 26.19  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT10031511S.D

Lab ID: SLC0238-SCV1

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

16-MAR-2023 02:16

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT   | CCV   | RRT    | DELTA | COMPOUND     |
|-------|-------|--------|-------|--------------|
| 0.952 | 0.000 | 0.9524 |       | Benzoic acid |

RRT check based on Ccal File: 20230315.b/NT10031510S.D

On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*

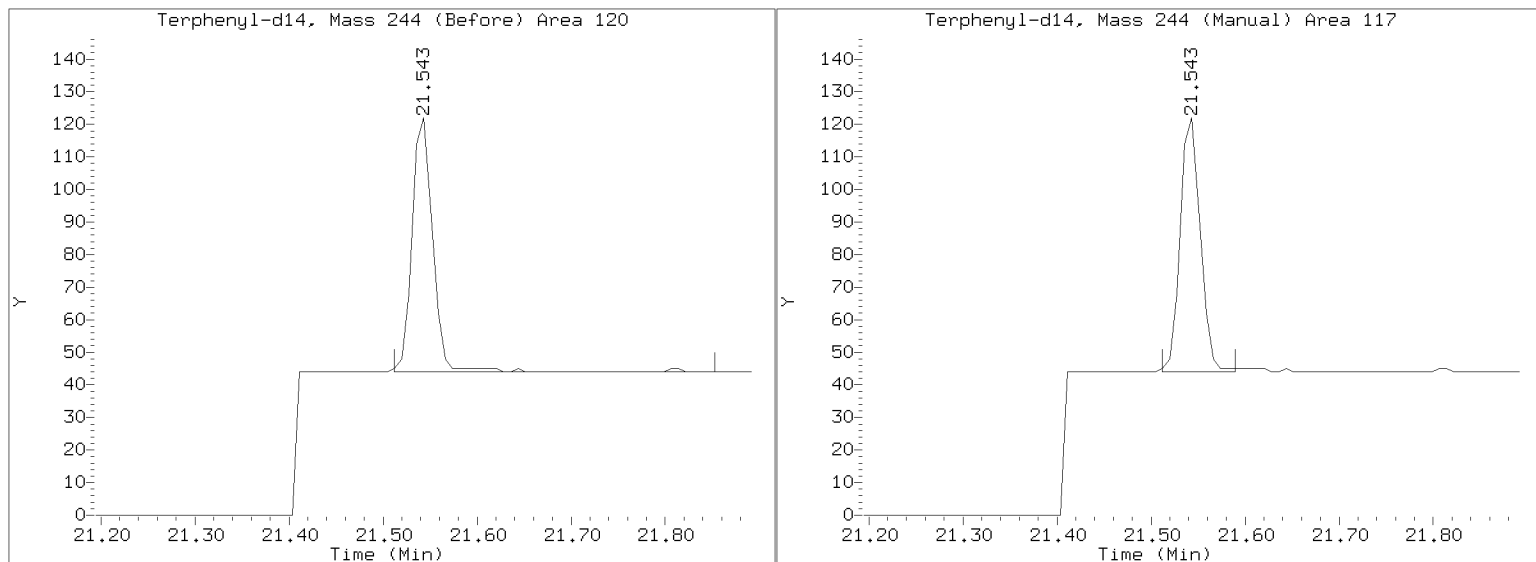
# Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031511S.D

Injection Date: 16-MAR-2023 02:16

Lab ID: SLC0238-SCV1 Client ID:

Report Date: 03/16/2023 14:49





**CONTINUING CALIBRATION CHECK**  
**EPA 8270E-SIM**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT10</u>                      | Calibration:      | <u>GC00049</u>         |
| Lab File ID:   | <u>NT1003222334S.D</u>           | Calibration Date: | <u>03/15/2023</u>      |
| Sequence:      | <u>SLC0407</u>                   | Injection Date:   | <u>03/23/23</u>        |
| Lab Sample ID: | <u>SLC0407-CCV1</u>              | Injection Time:   | <u>14:00</u>           |
| Sequence Name: | <u>Calibration Check</u>         |                   |                        |

| COMPOUND               | TYPE | CONC. (ug/mL) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|---------|
|                        |      | STD           | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| 1,4-Dichlorobenzene    | A    | 1.0000        | 1.0  | 1.5031980             | 1.5726420 |     | 4.6          | +/-50   |
| 1,2-Dichlorobenzene    | A    | 1.0000        | 1.0  | 1.4783140             | 1.5268160 |     | 3.3          | +/-50   |
| Benzyl Alcohol         | A    | 1.0000        | 1.1  | 0.9647610             | 1.0482100 |     | 8.7          | +/-50   |
| Benzoic acid           | A    | 4.0000        | 4.0  | 0.1358970             | 0.1911392 |     | -0.4         | +/-50   |
| 2,4-Dimethylphenol     | A    | 2.0000        | 2.0  | 0.3457498             | 0.3387292 |     | -2.0         | +/-50   |
| 1,2,4-Trichlorobenzene | A    | 1.0000        | 1.1  | 0.3478148             | 0.3750798 |     | 7.8          | +/-50   |
| N-Nitrosodiphenylamine | A    | 1.0000        | 1.1  | 0.5366720             | 0.5677816 |     | 5.8          | +/-50   |
| Pentachlorophenol      | A    | 2.0000        | 1.9  | 0.0934250             | 0.1239893 |     | -7.5         | +/-50   |
| 2-Fluorophenol         | A    | 1.5000        | 1.63 | 1.2129820             | 1.3167270 |     | 8.6          | +/-50   |
| p-Terphenyl-d14        | A    | 1.0000        | 1.86 | 0.6517430             | 1.2154790 |     | 86.5         | +/-50 * |

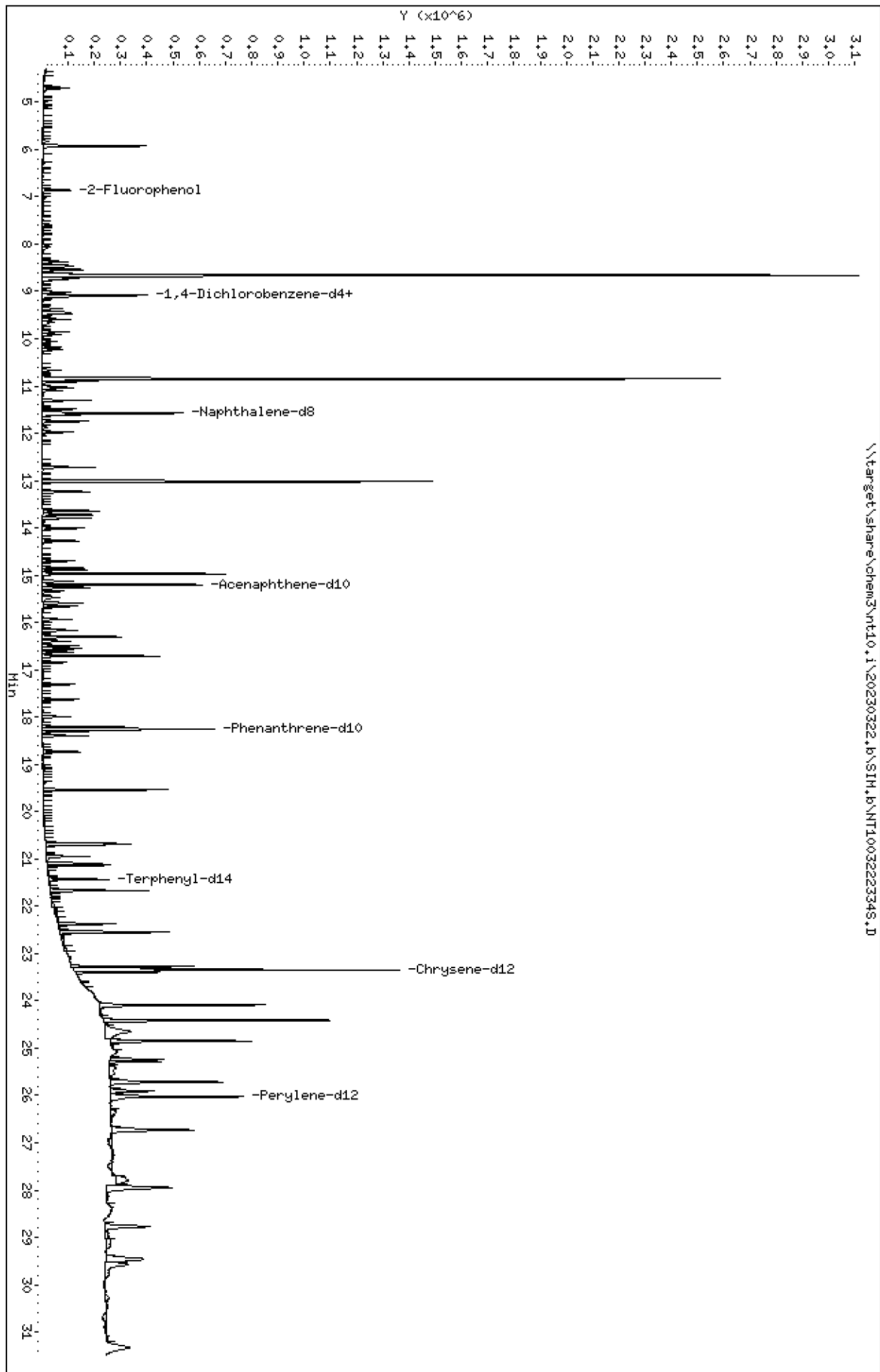
\* Values outside of QC limits



Data File: \\target\share\chem3\nt10.1\20230322.16\SIH.6\NT100322334S.D  
 Date: 23-MAR-2023 14:00  
 Client ID:  
 Sample Info: SED-CVSIH  
 Volume Injected (uL): 1.0  
 Column phase: ZB-5msi

Instrument: nt10.1  
 Operator: JGR  
 Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\SIH.6\NT100322334S.D



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

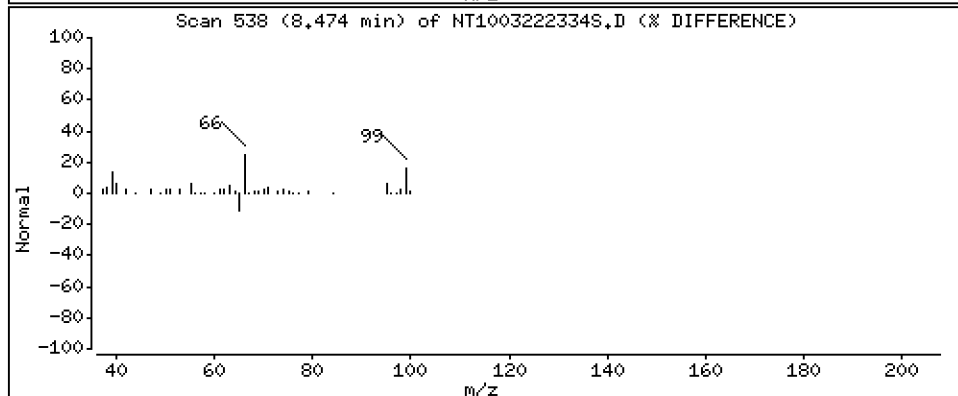
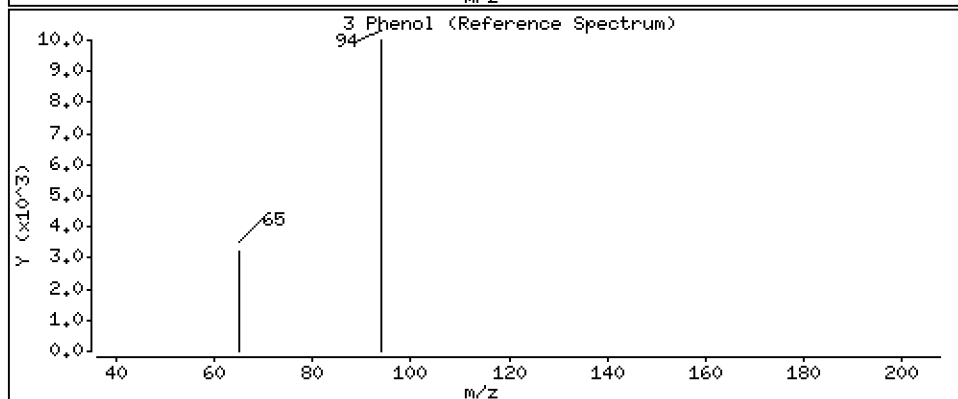
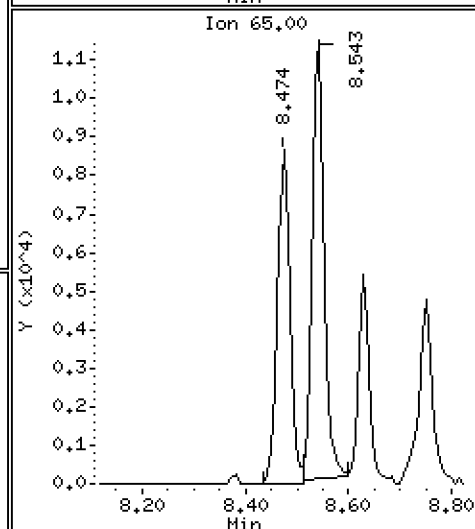
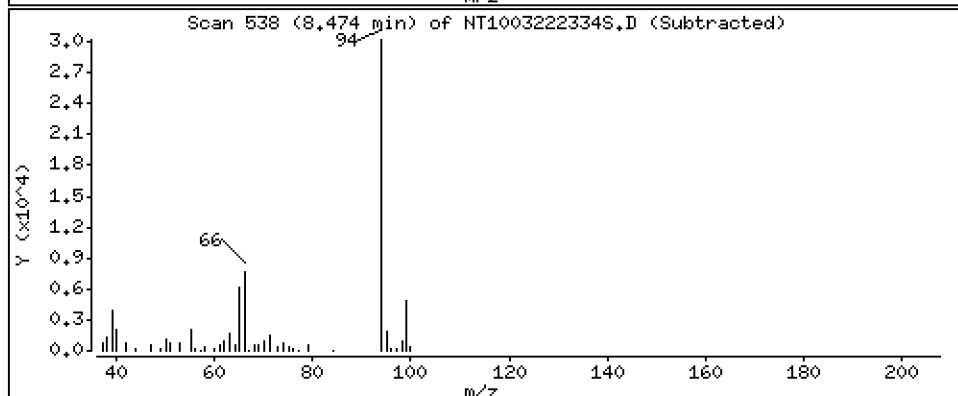
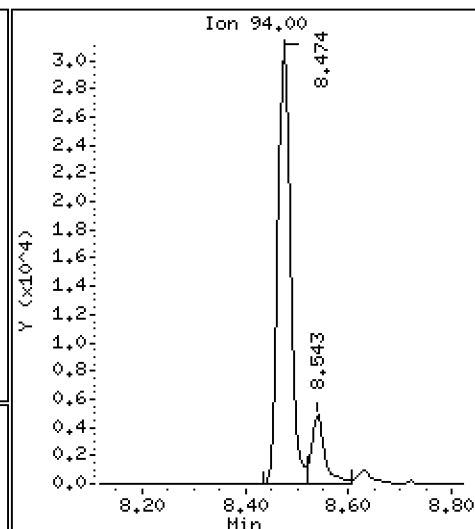
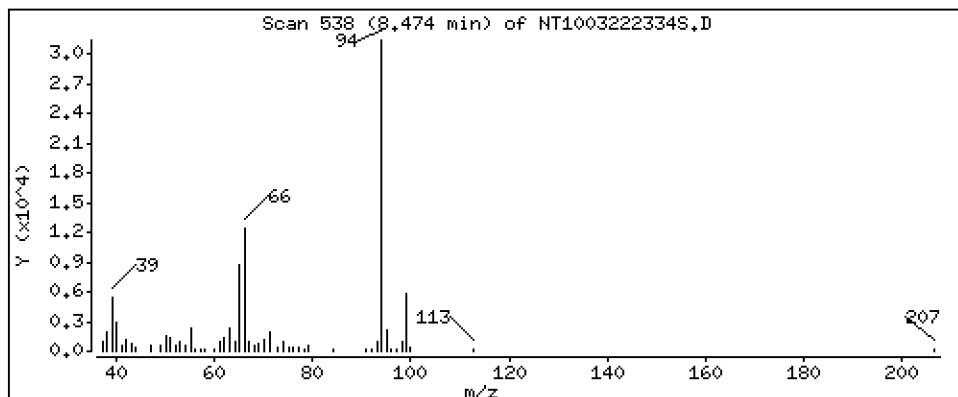
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 1.023 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

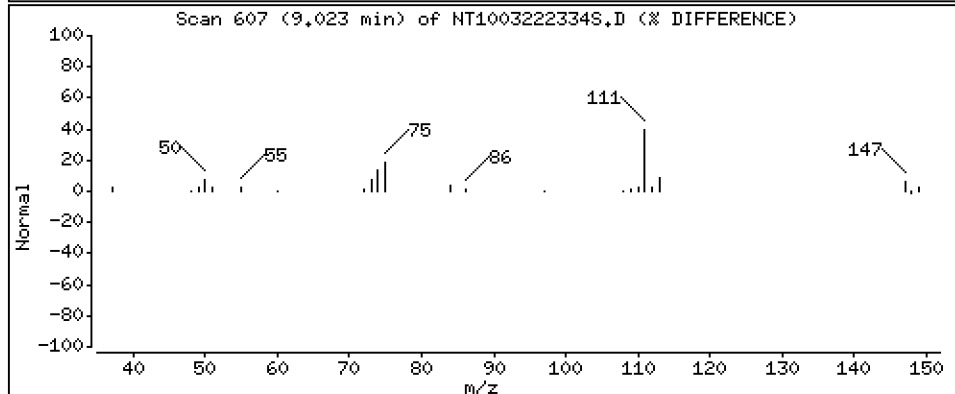
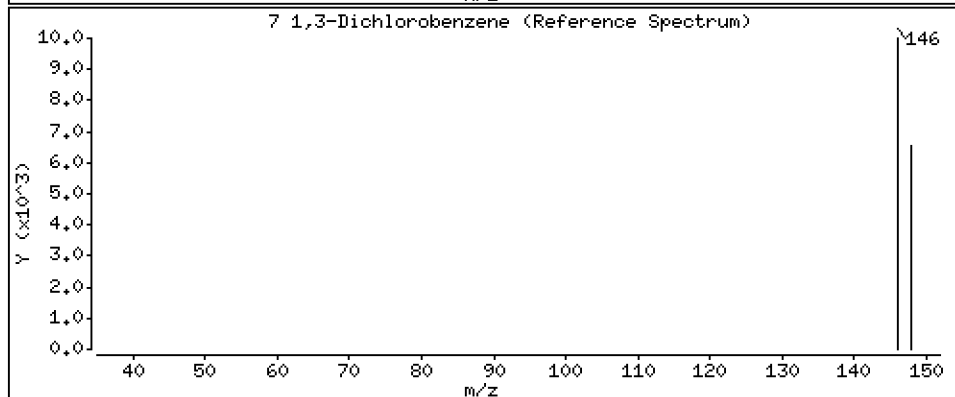
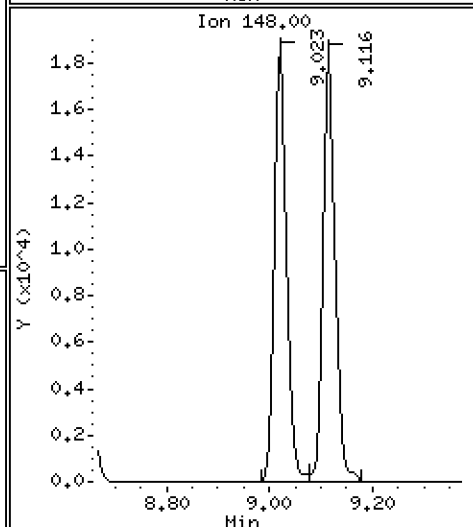
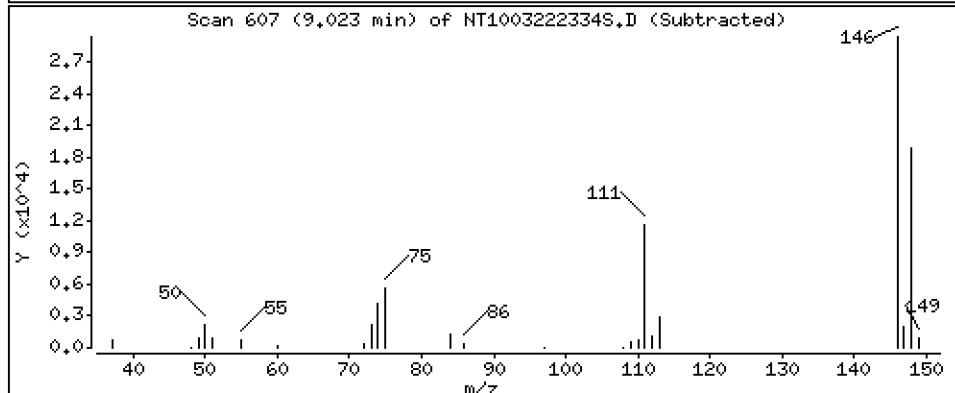
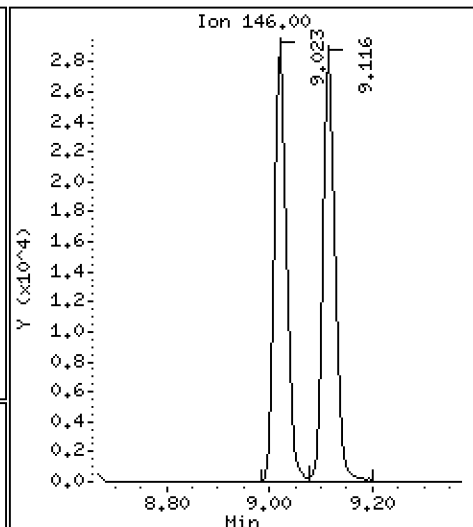
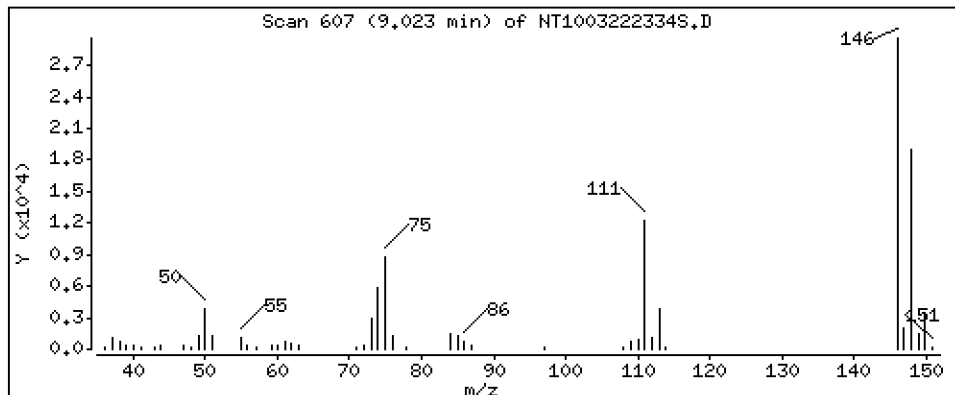
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 1,043 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

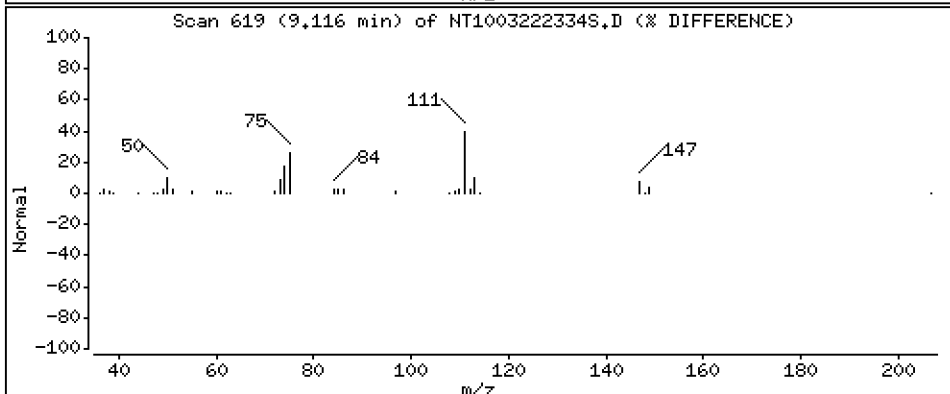
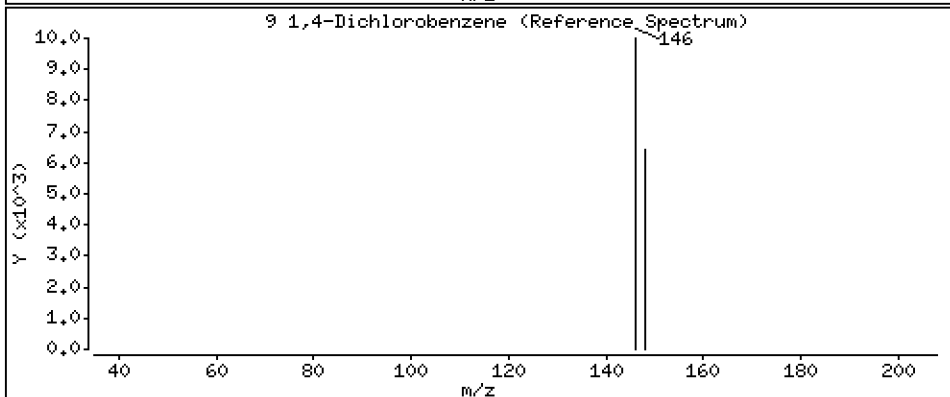
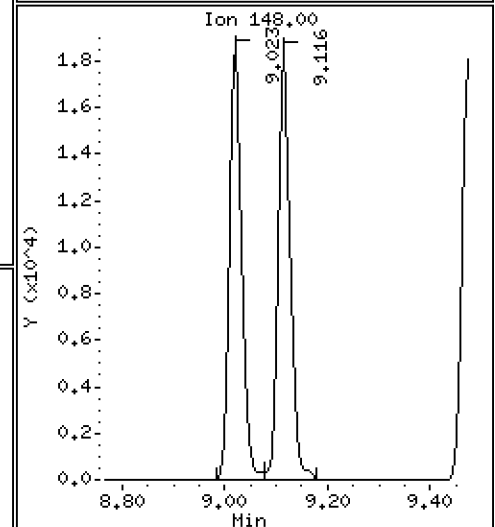
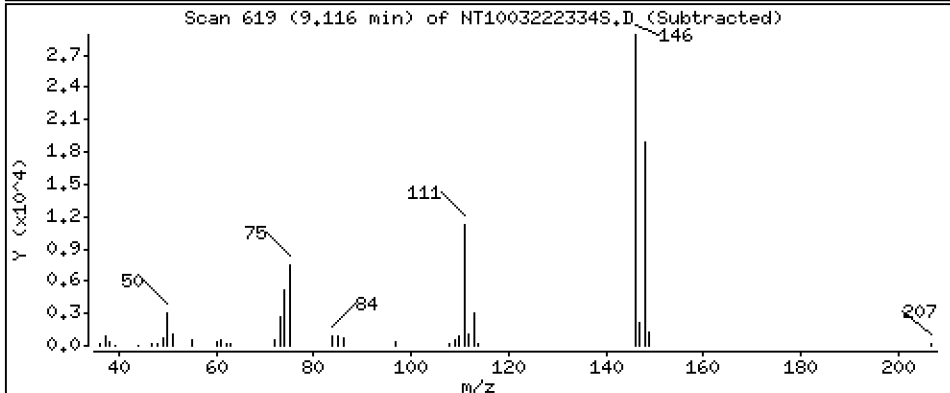
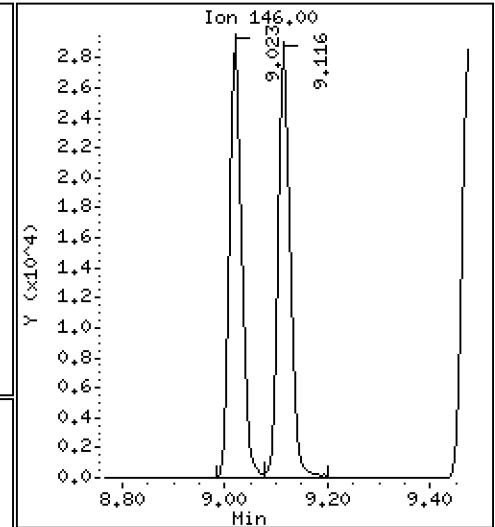
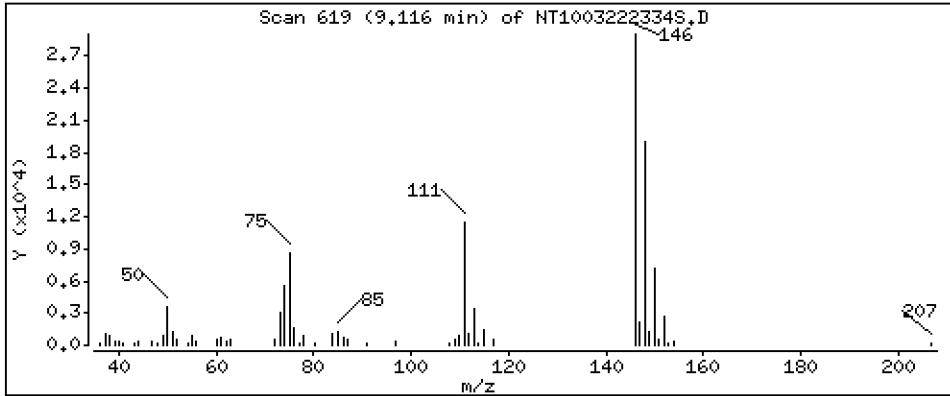
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 1.046 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIM

Volume Injected (uL): 1.0

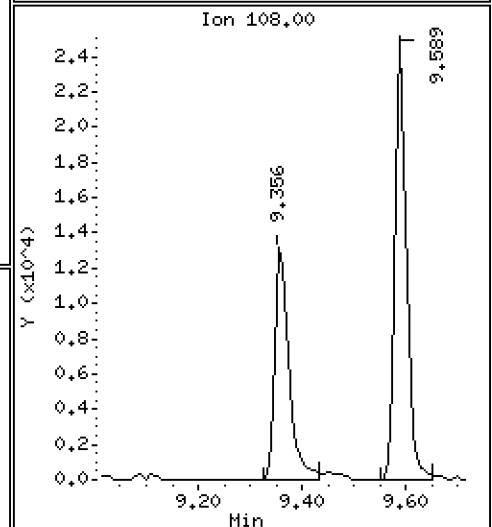
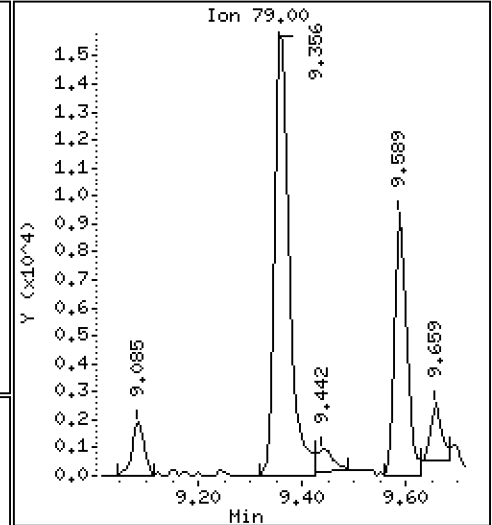
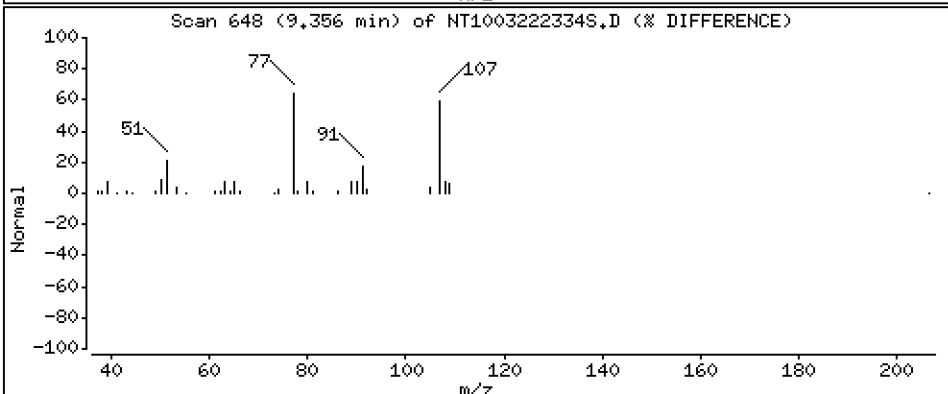
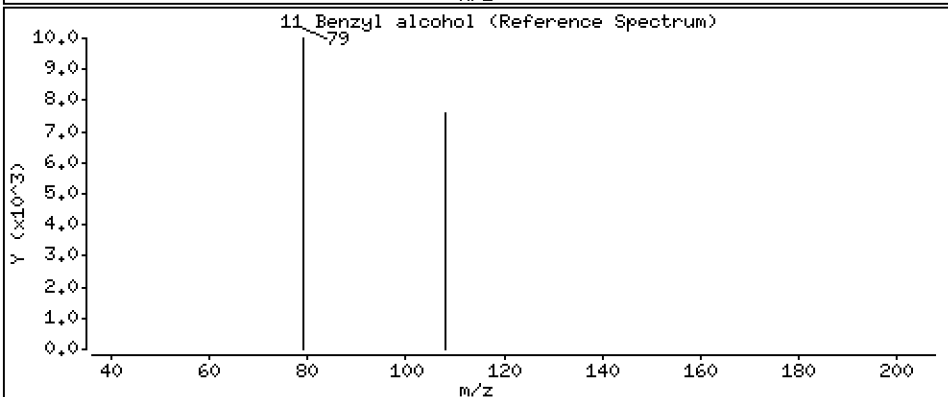
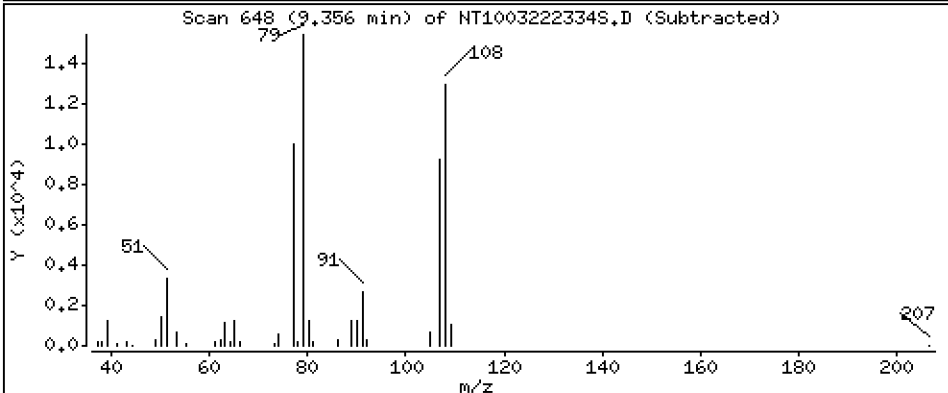
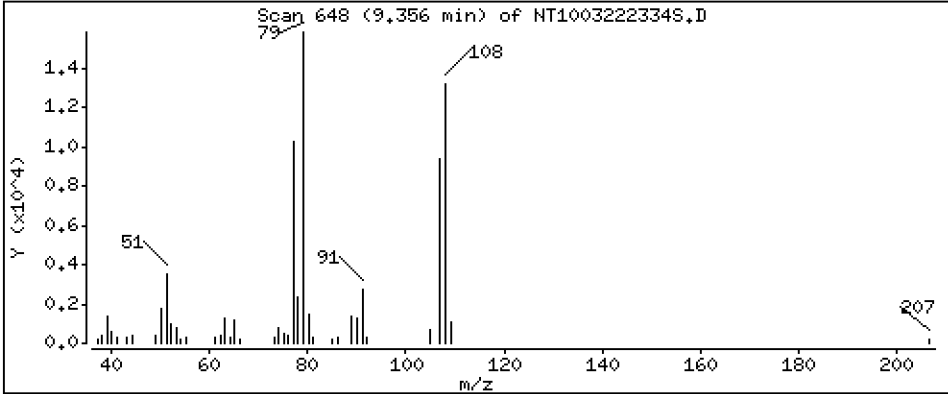
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 1.086 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

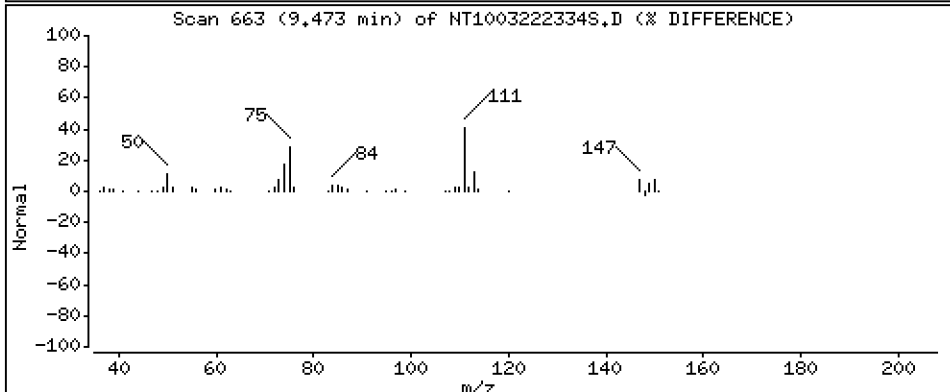
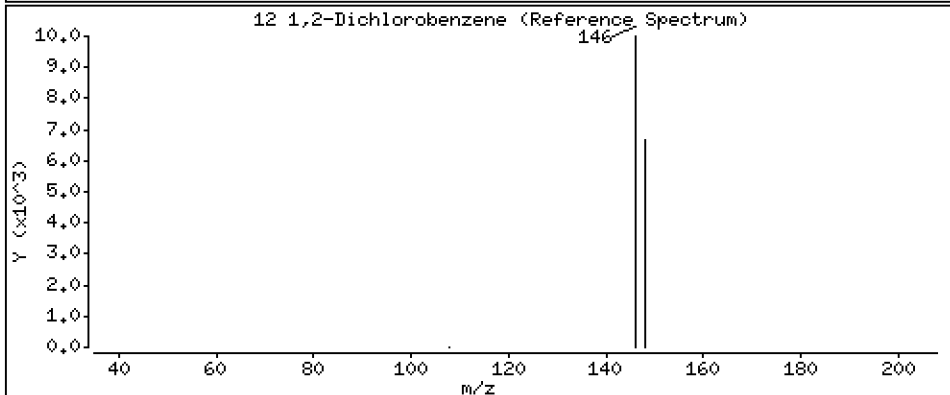
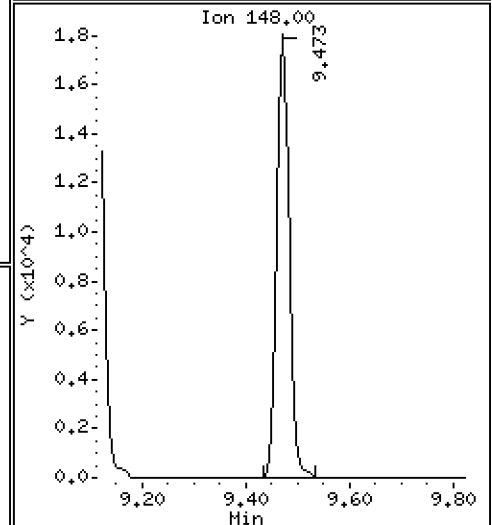
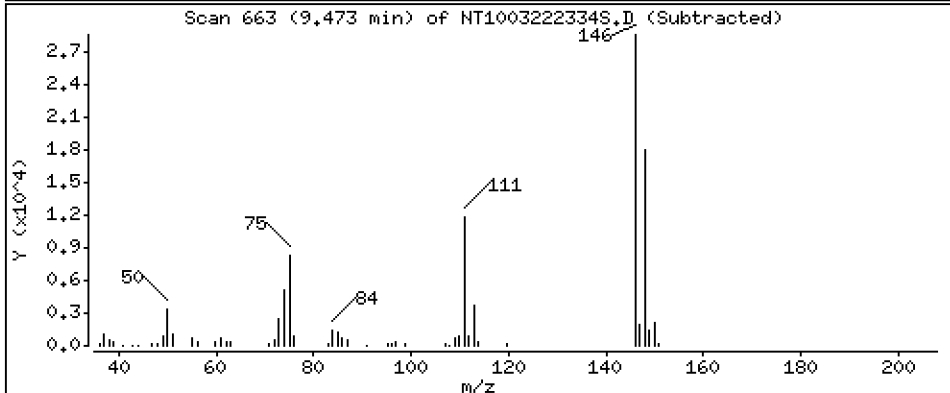
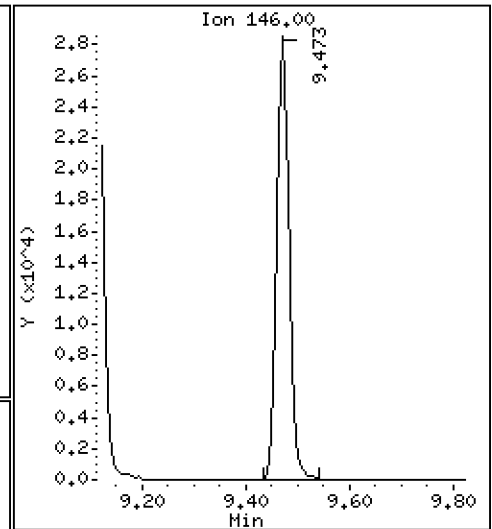
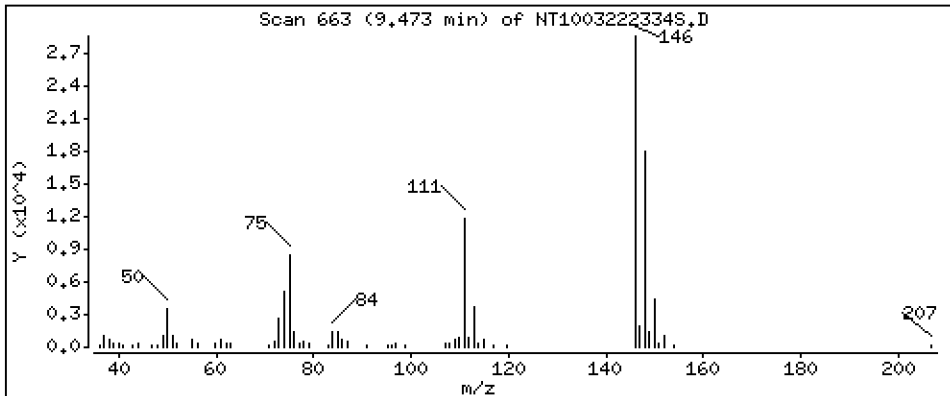
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 1.033 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

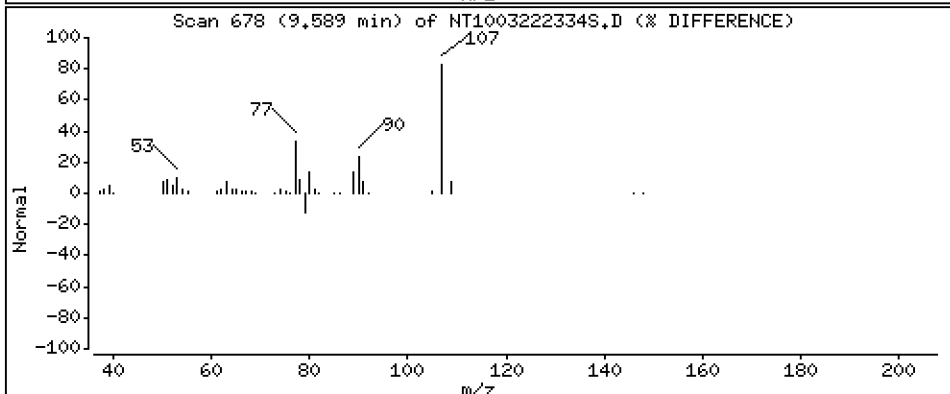
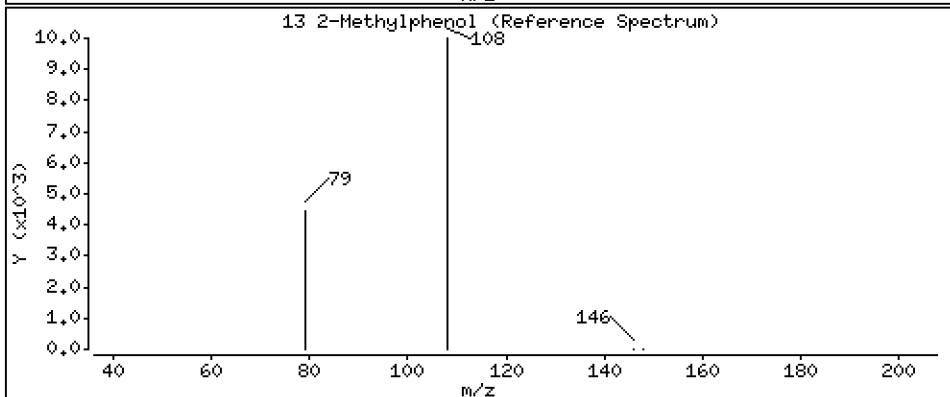
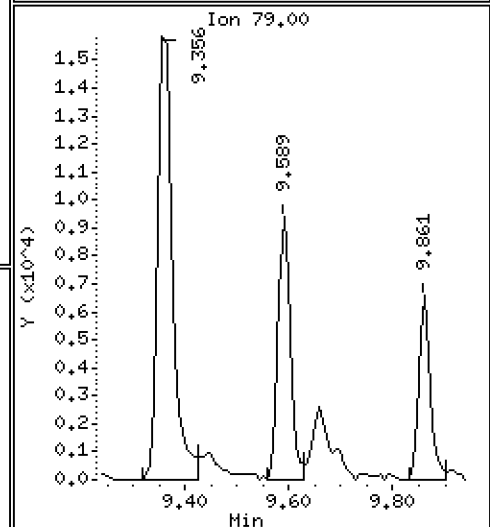
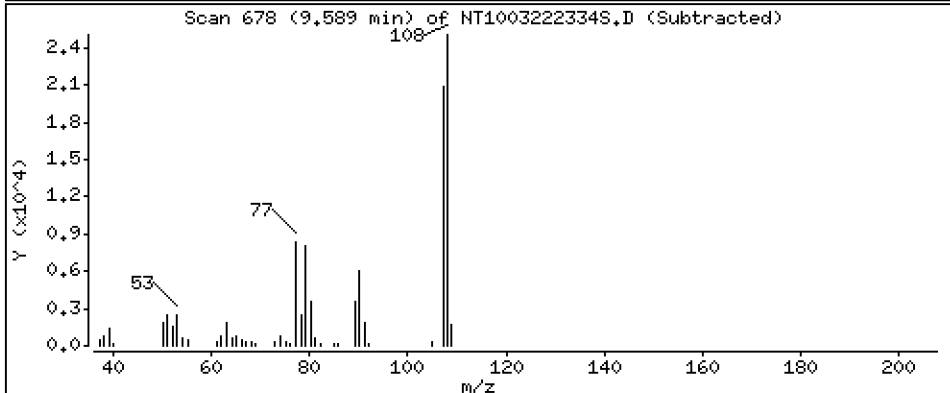
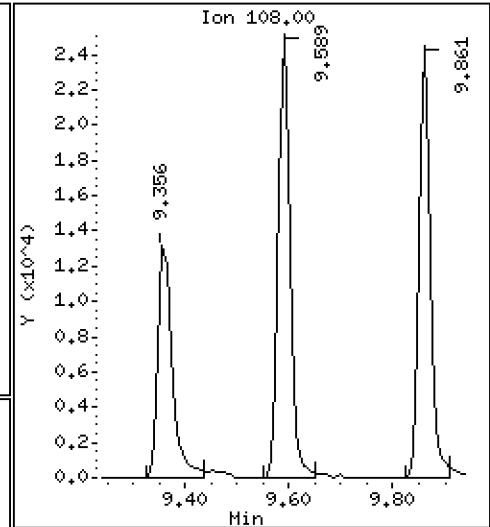
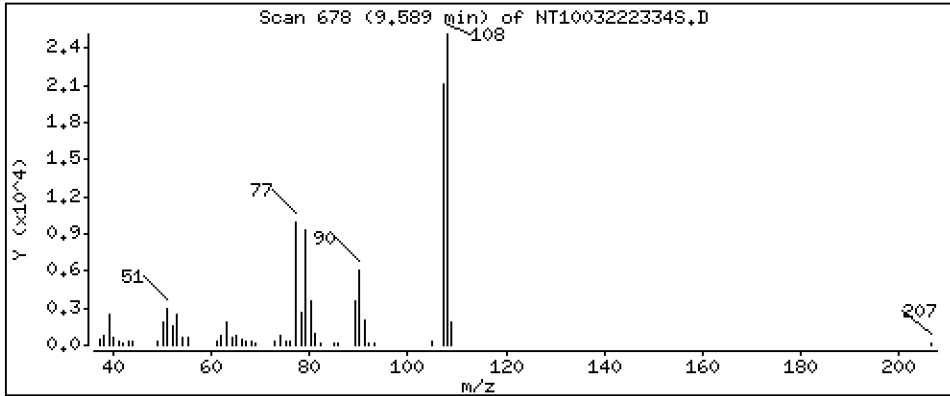
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 1.117 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

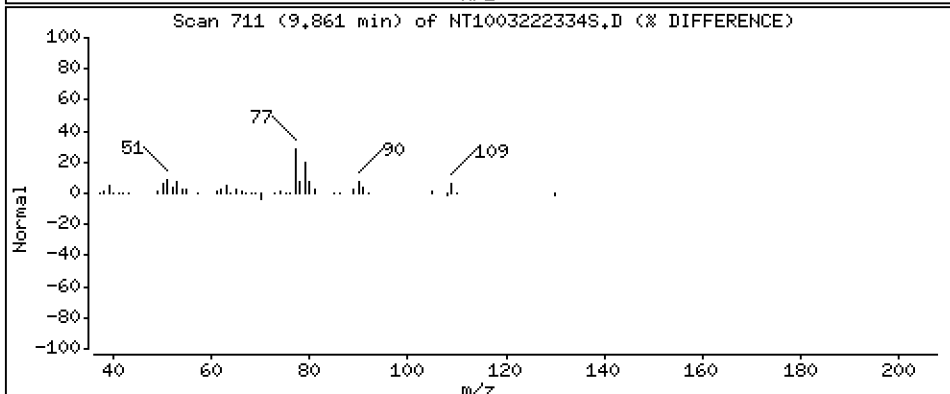
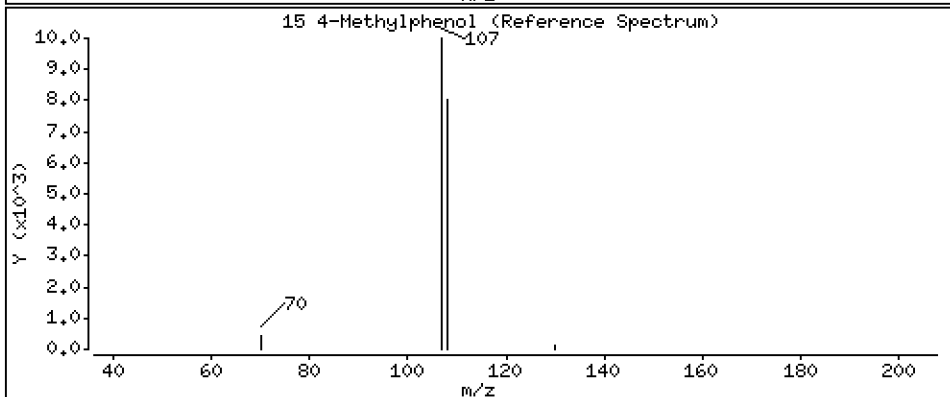
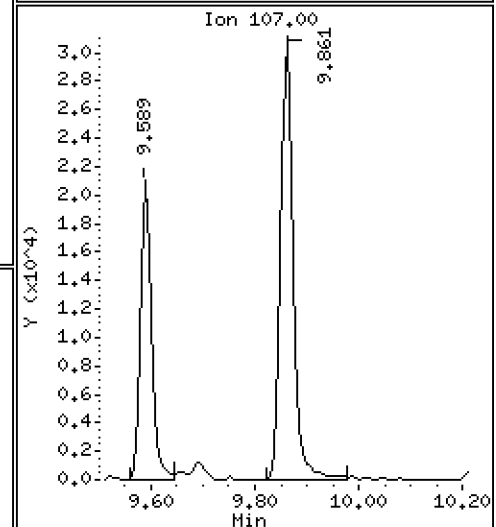
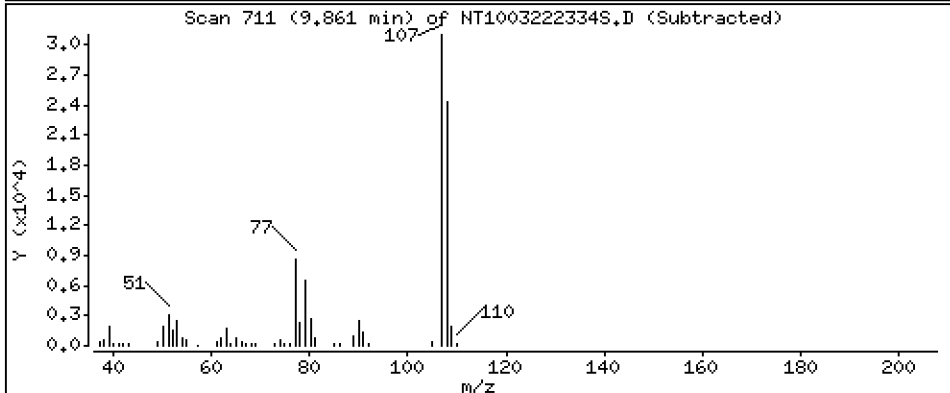
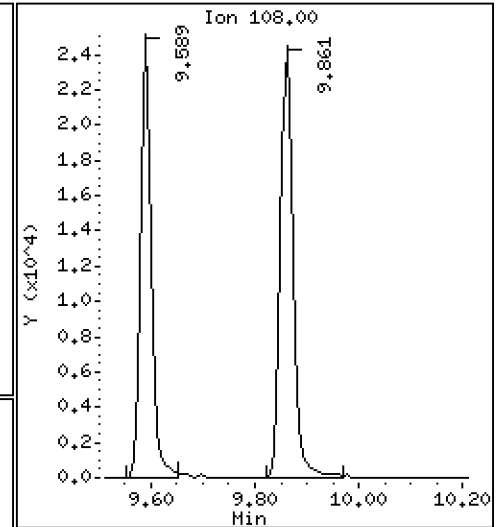
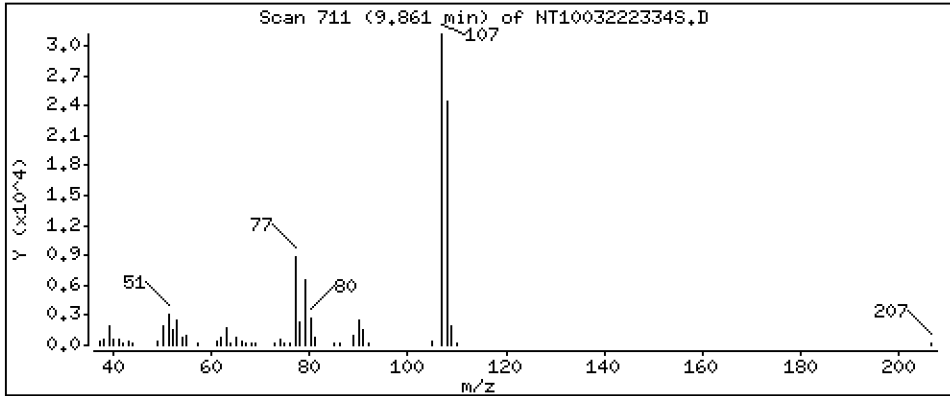
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 1.136 ug/L





Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

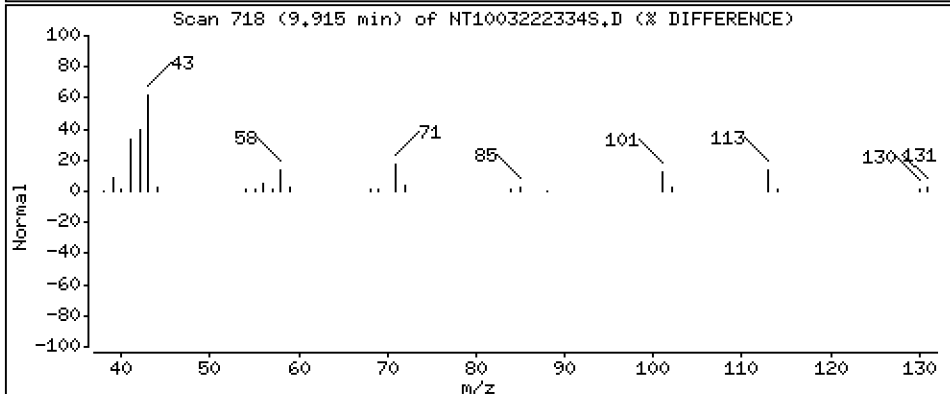
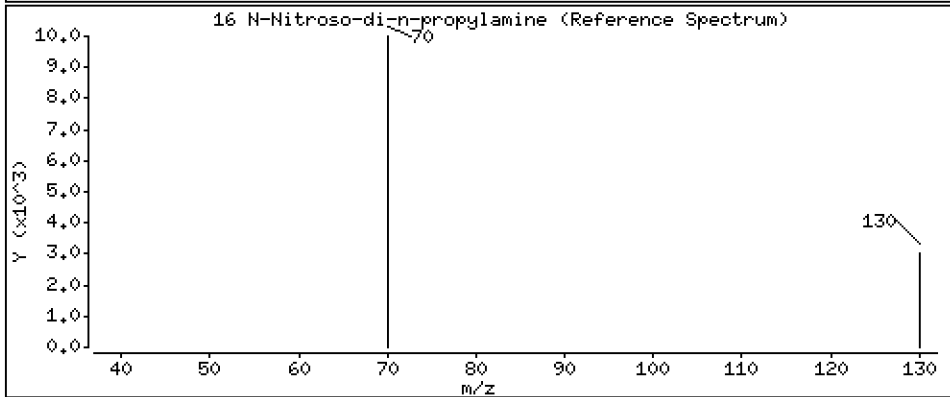
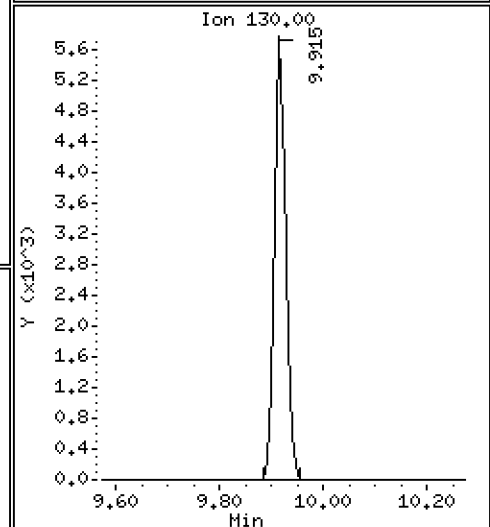
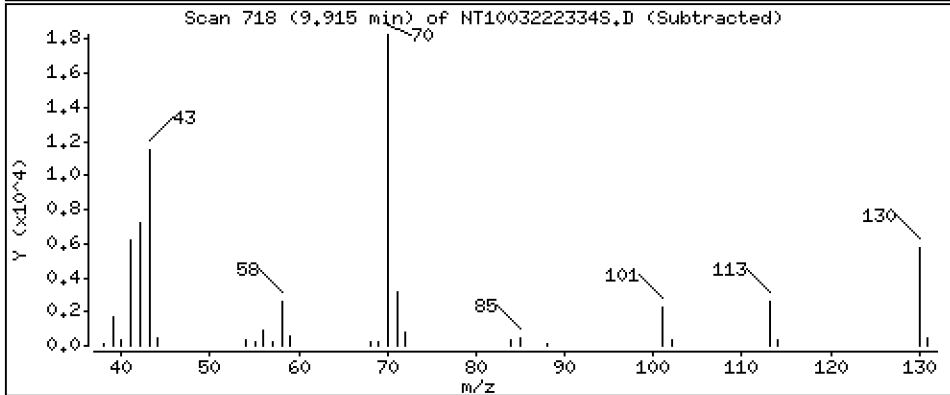
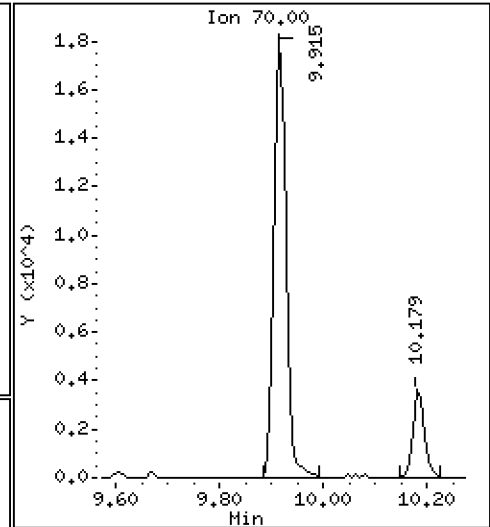
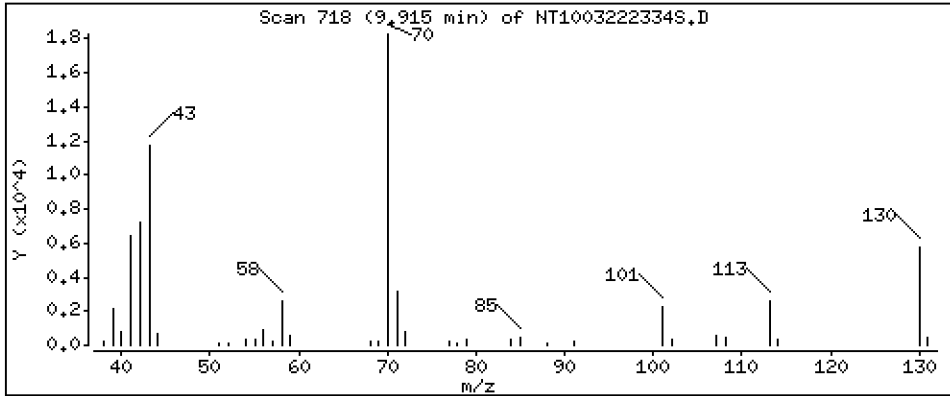
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 1.121 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

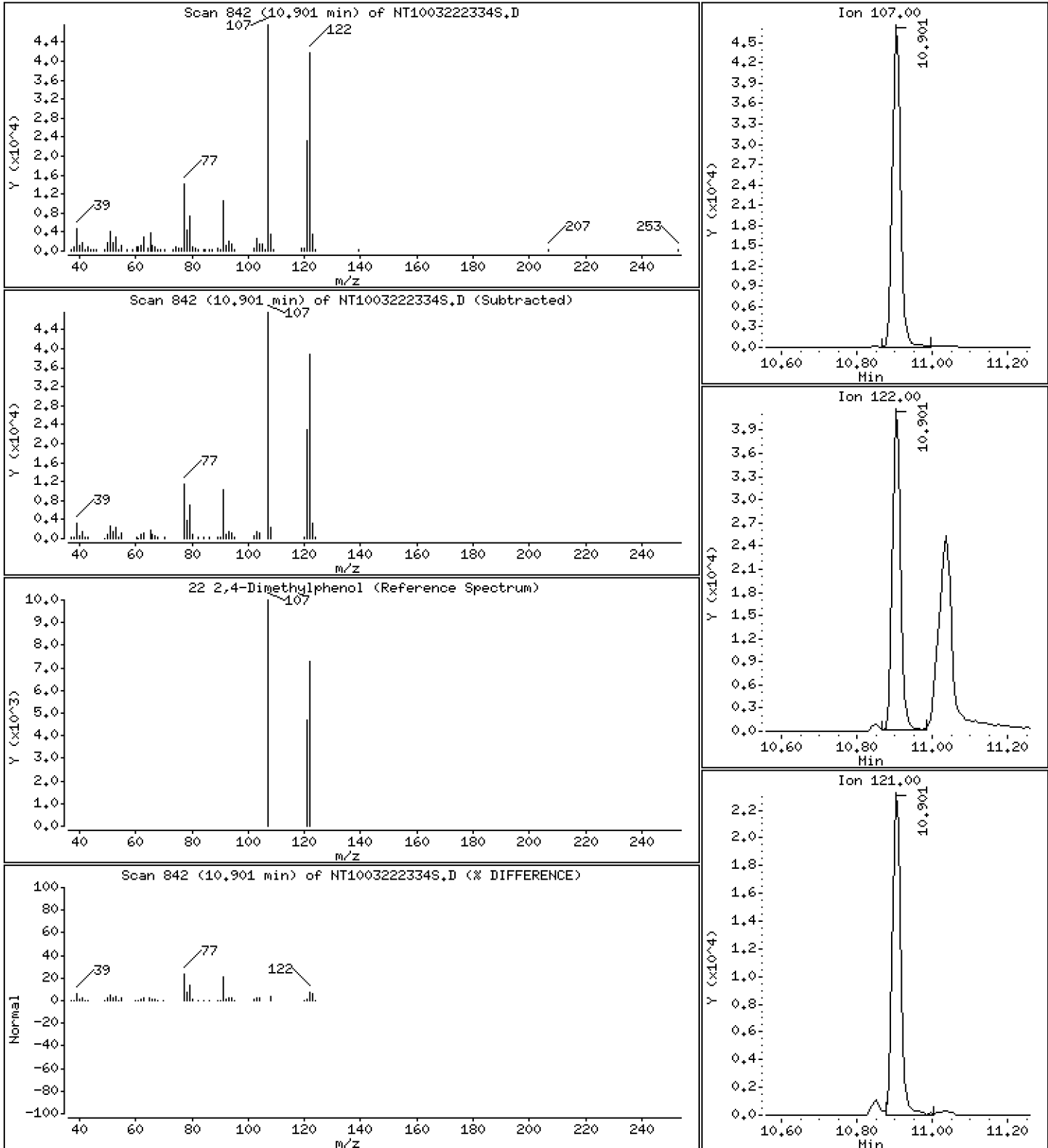
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 1,959 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

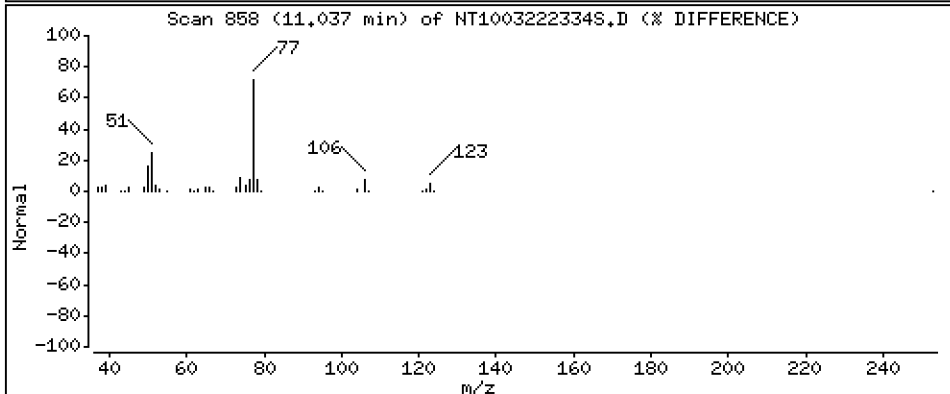
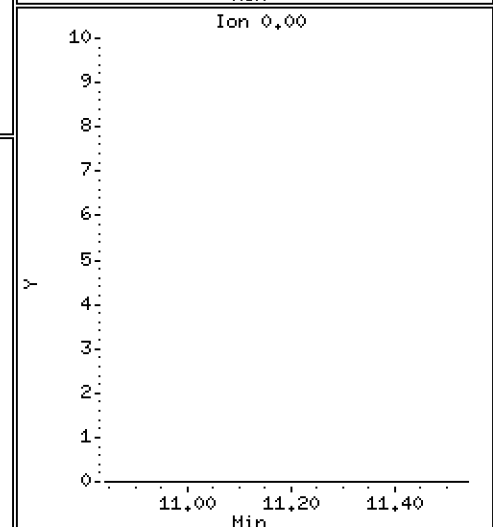
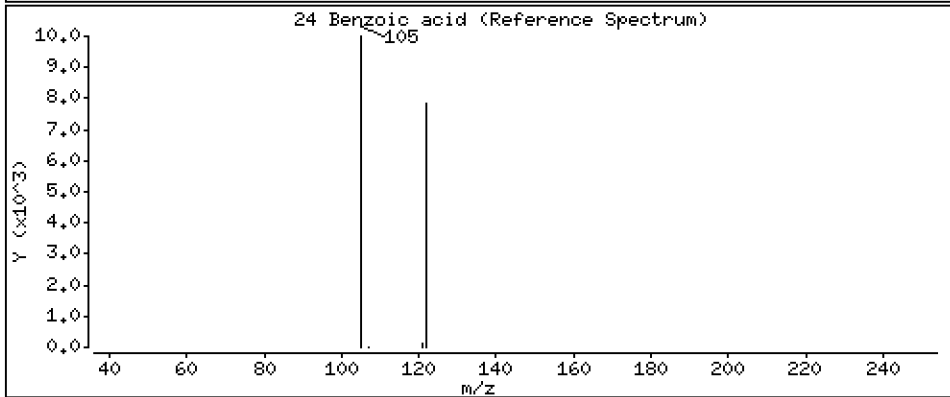
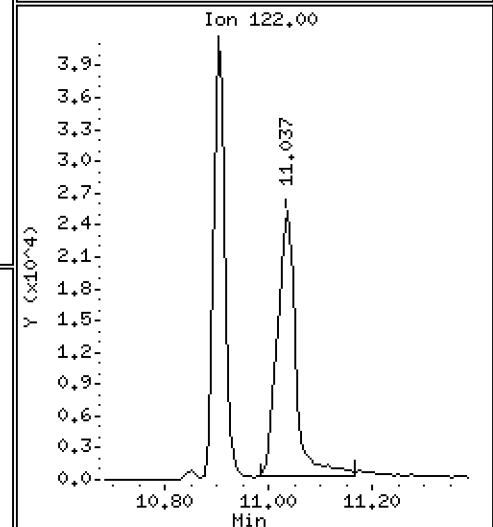
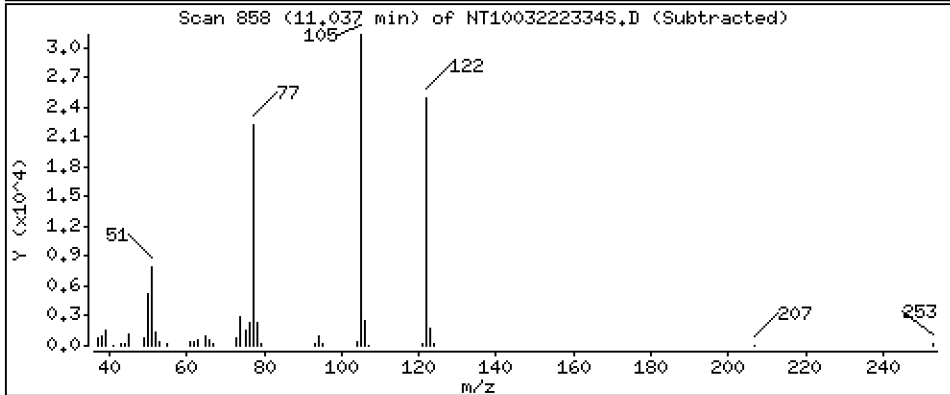
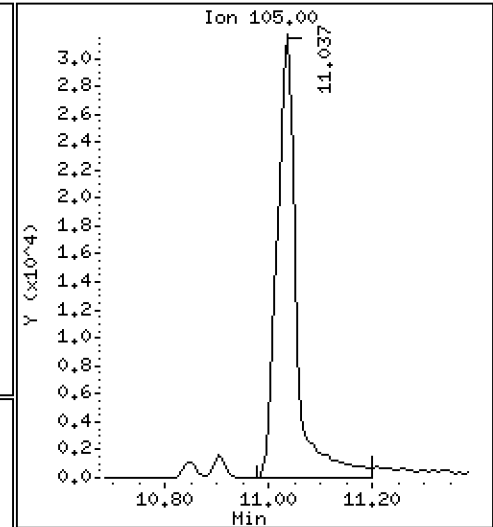
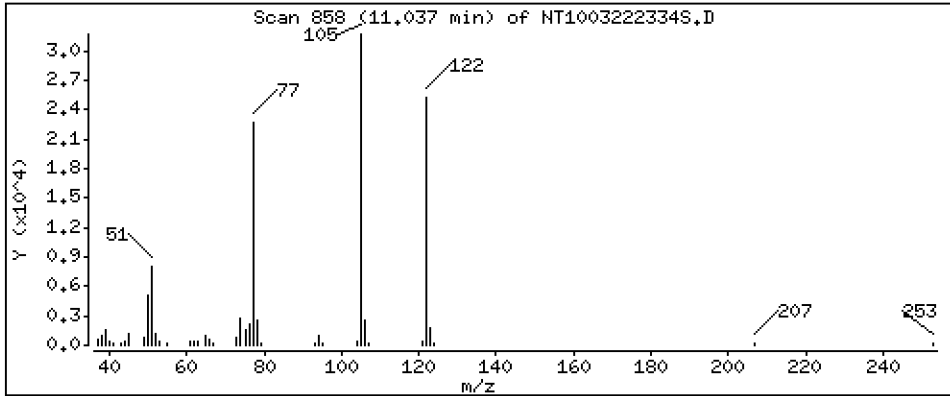
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 3,982 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIM

Volume Injected (uL): 1.0

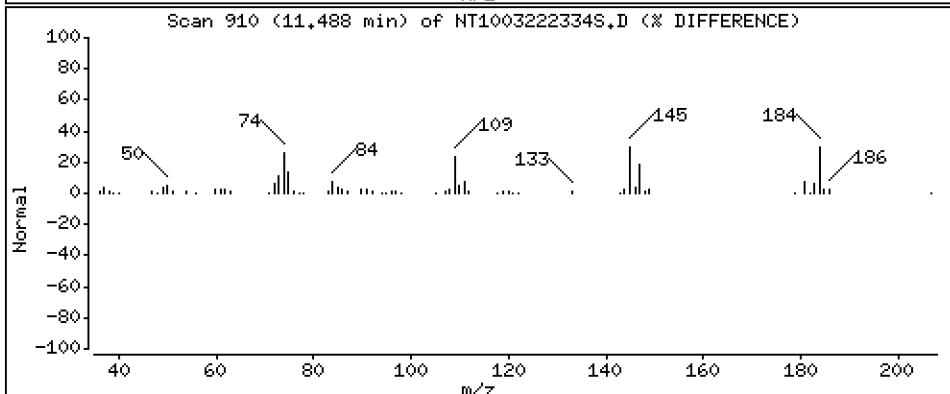
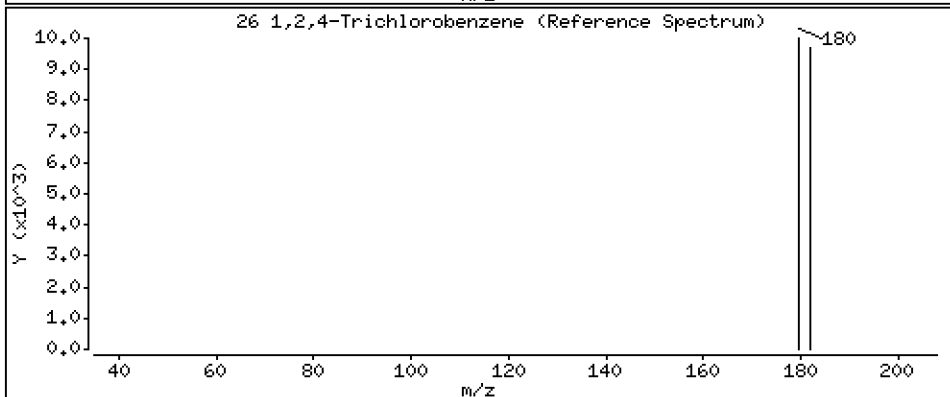
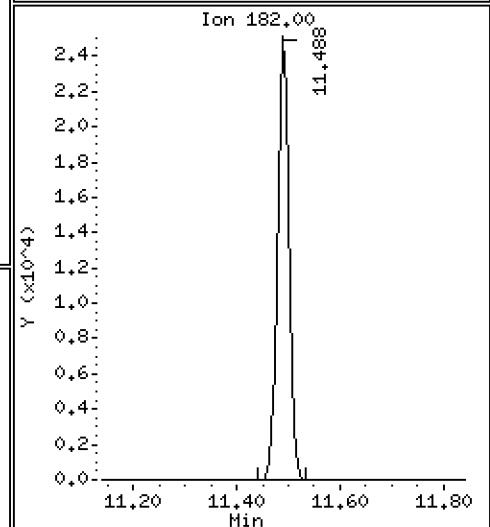
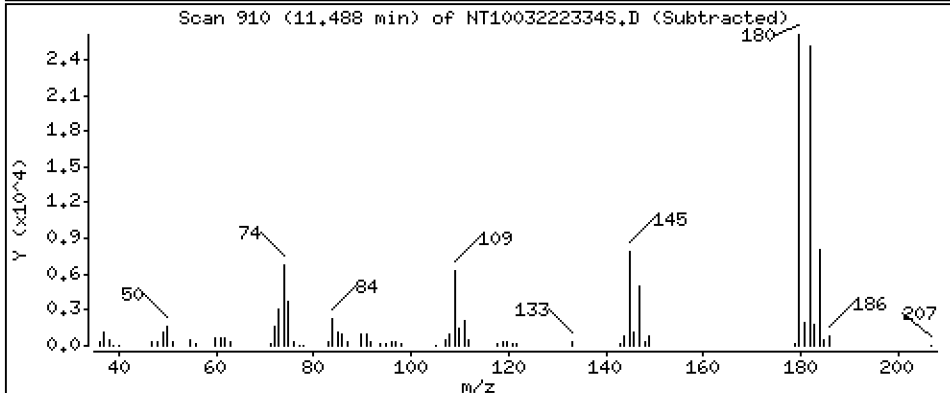
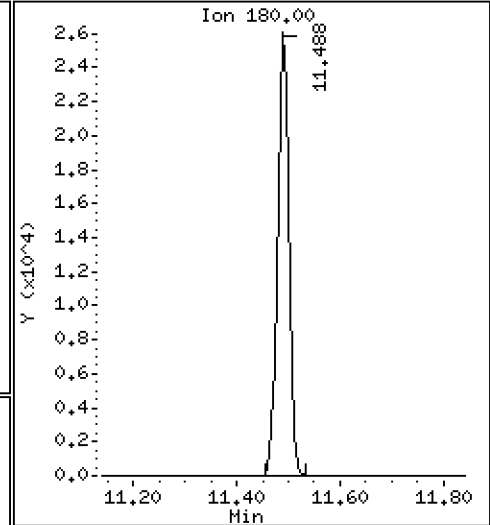
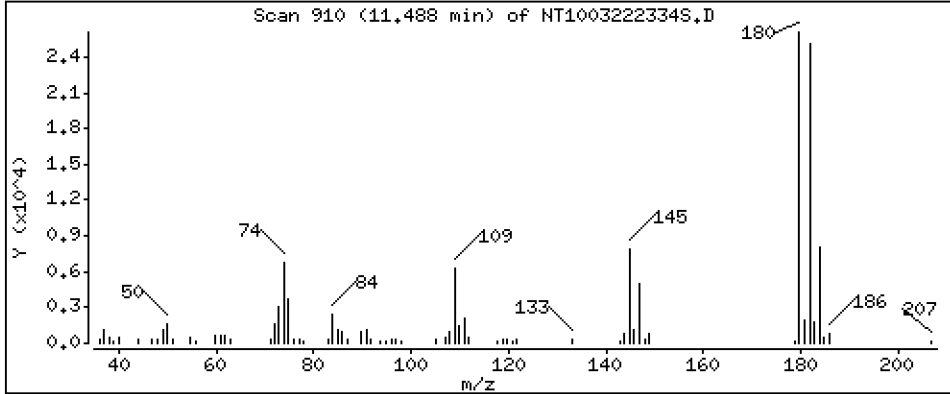
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 1,078 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

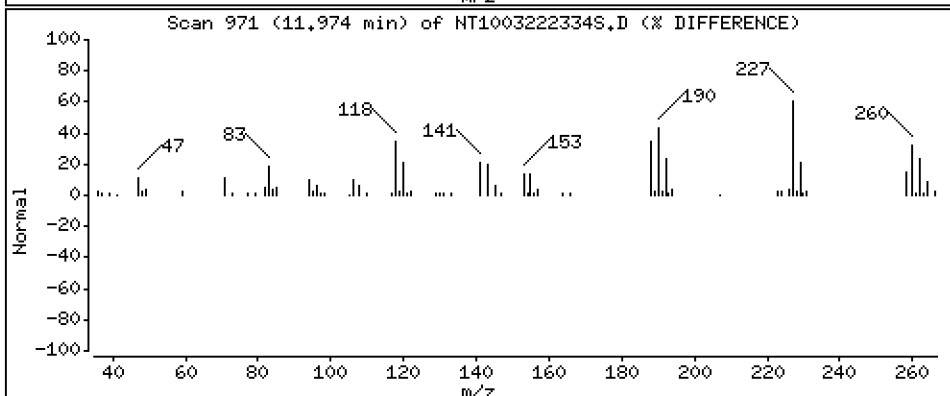
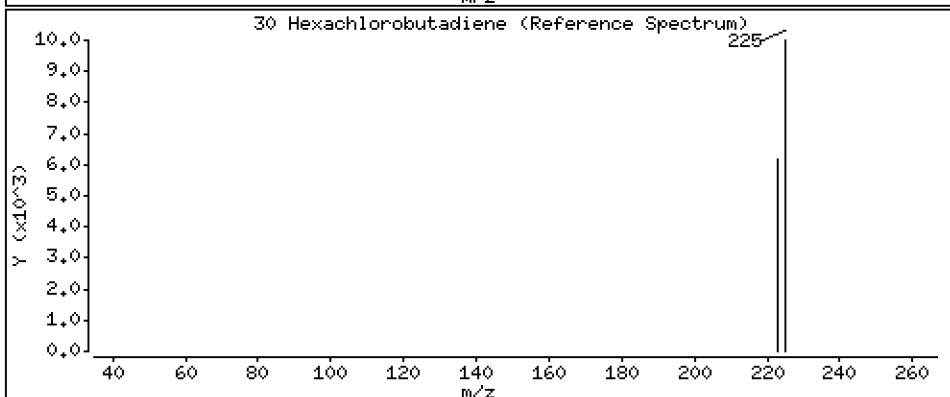
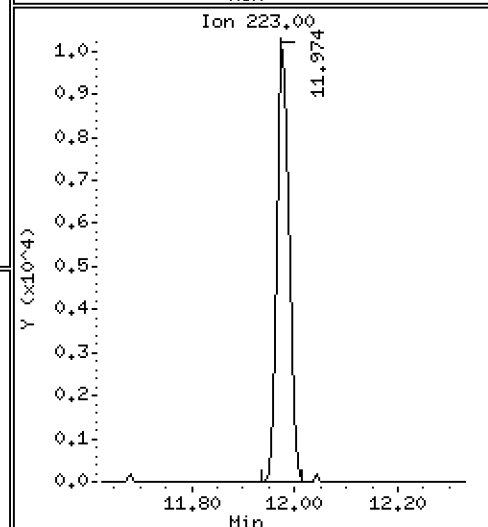
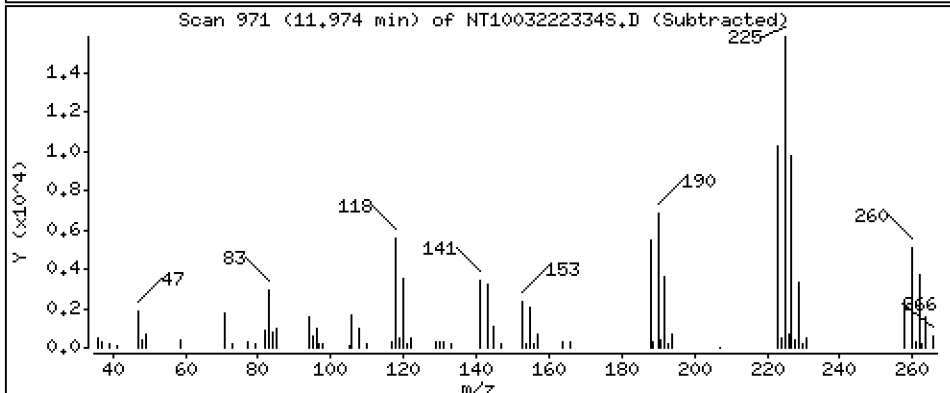
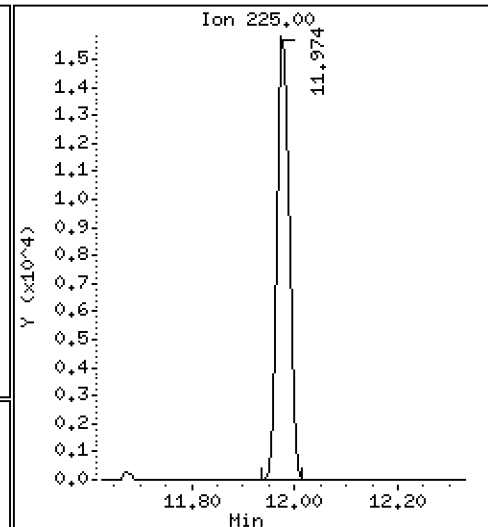
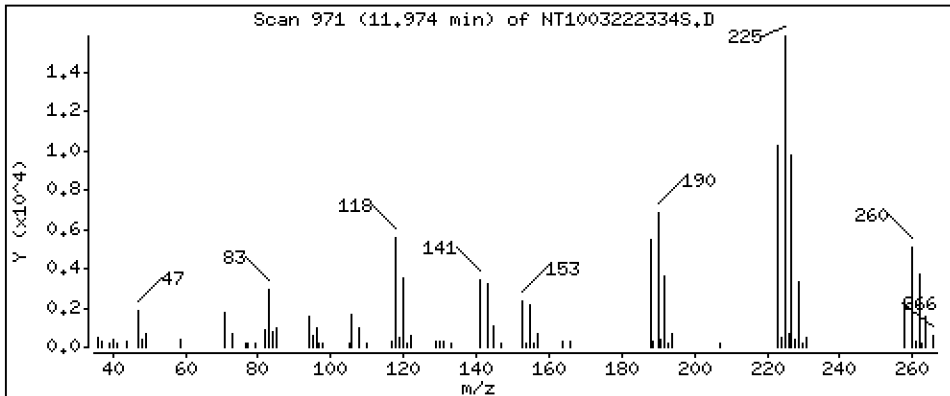
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 1,090 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

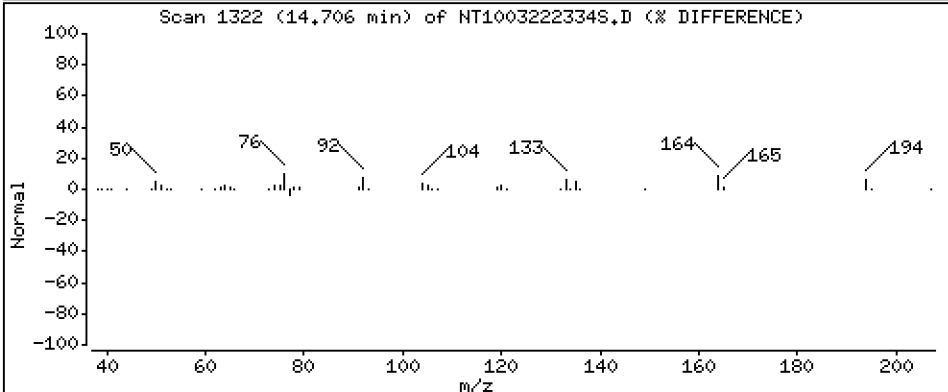
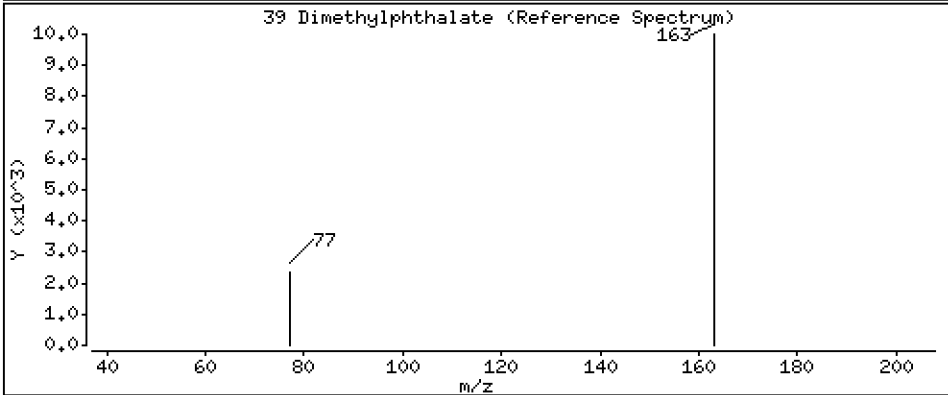
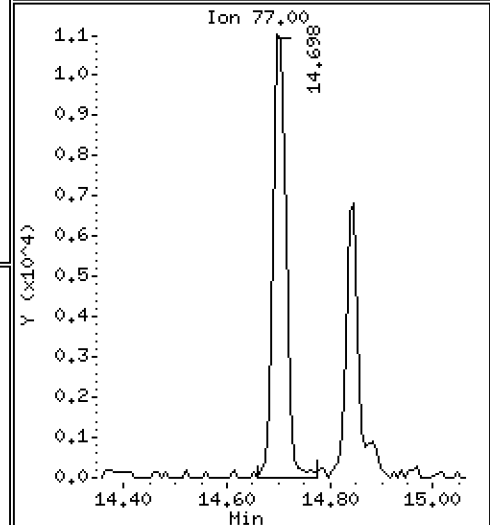
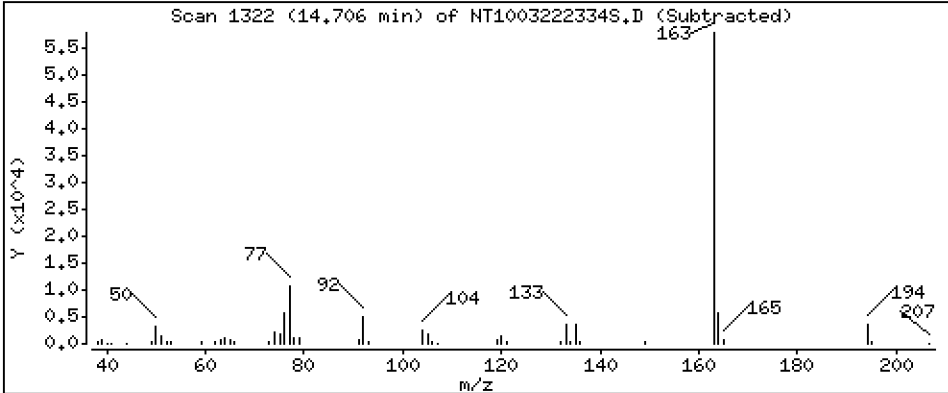
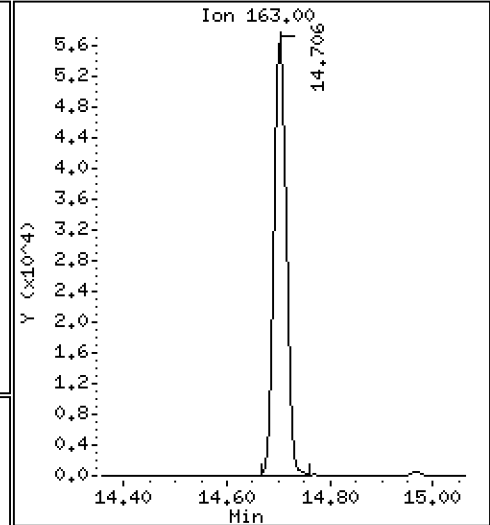
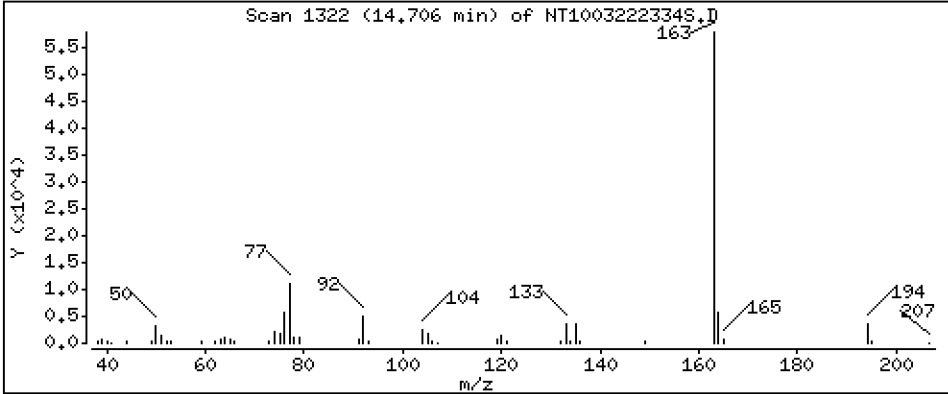
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

39 Dimethylphthalate

Concentration: 1.250 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

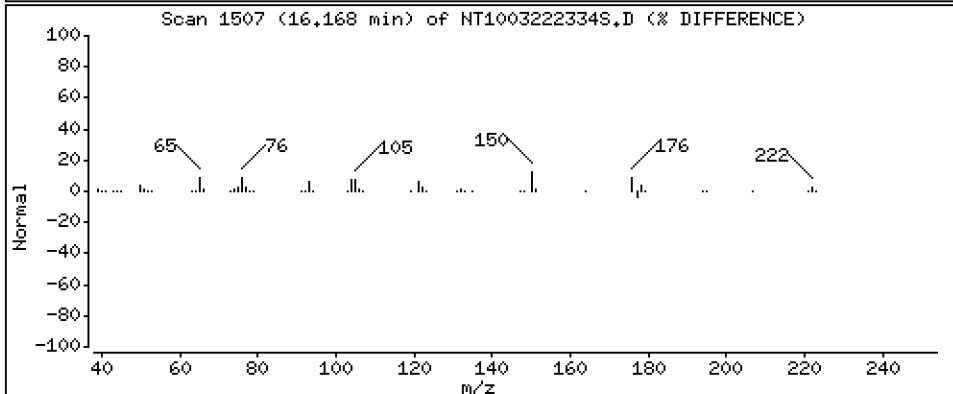
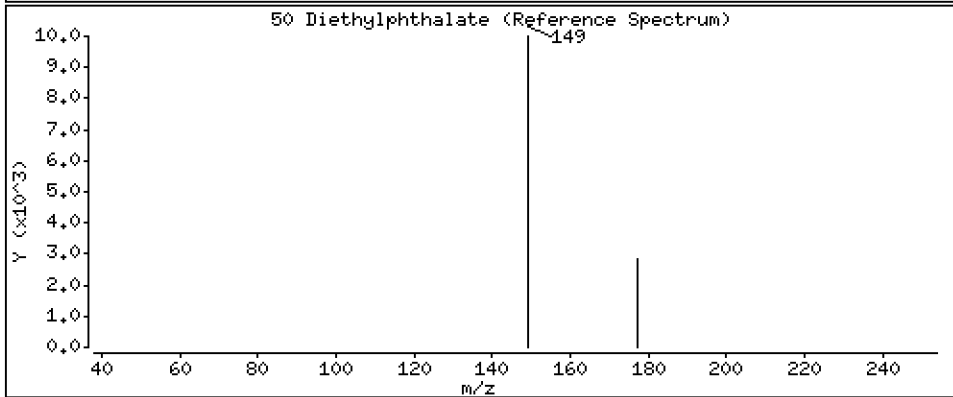
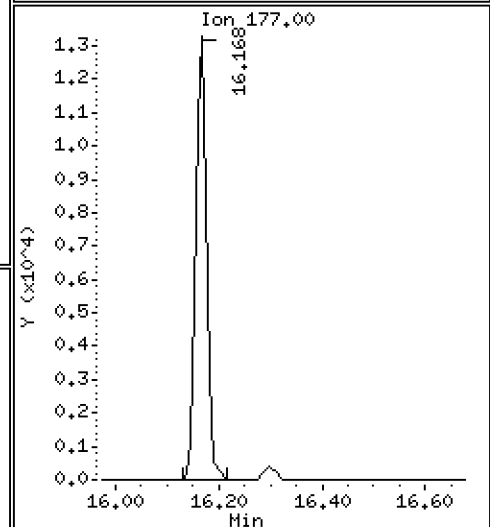
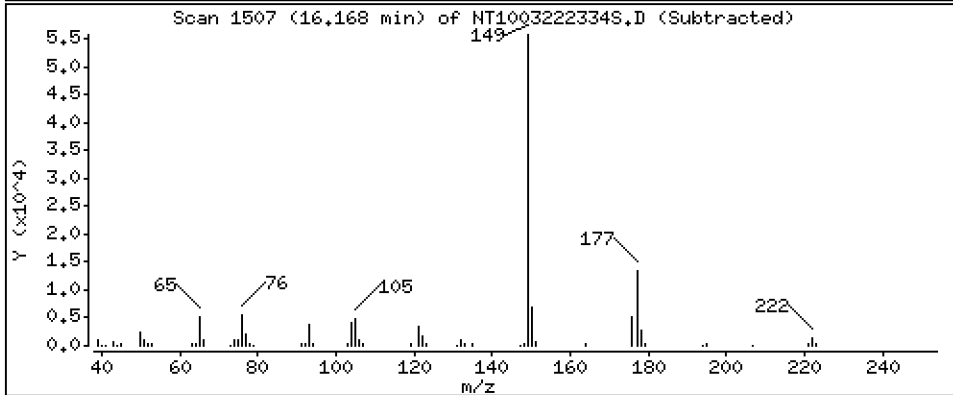
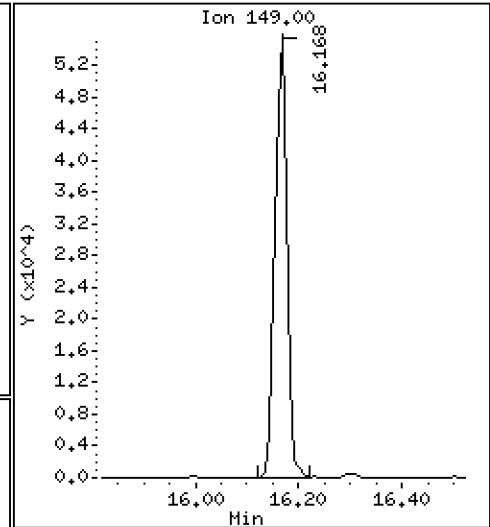
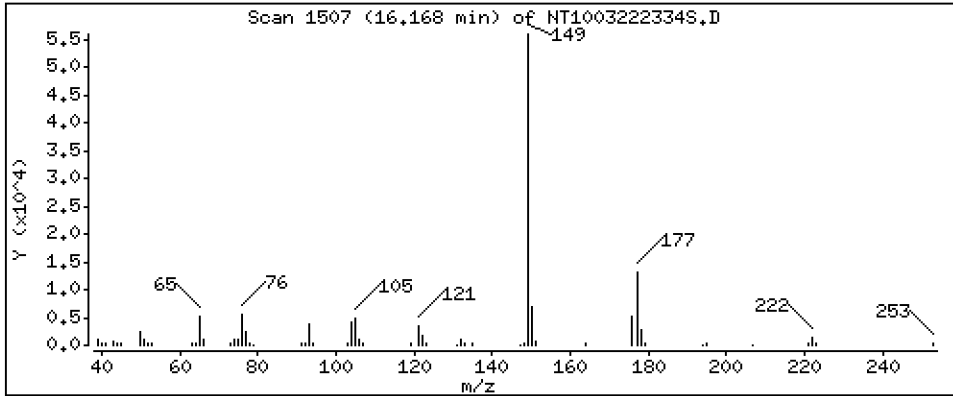
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 1,362 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

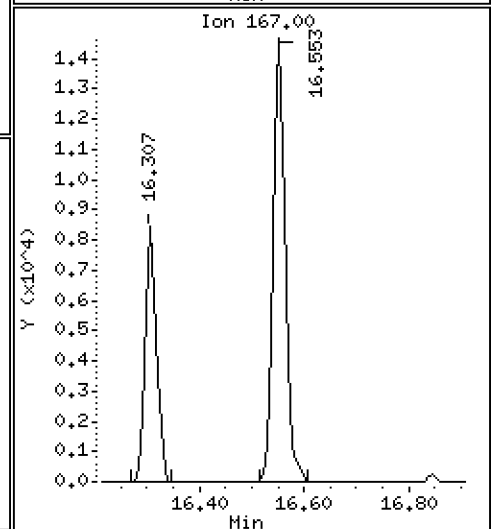
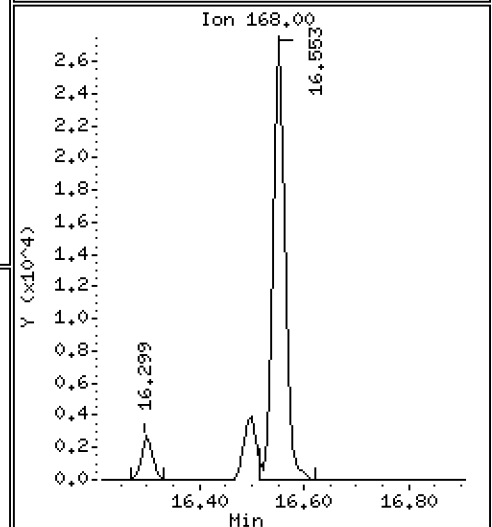
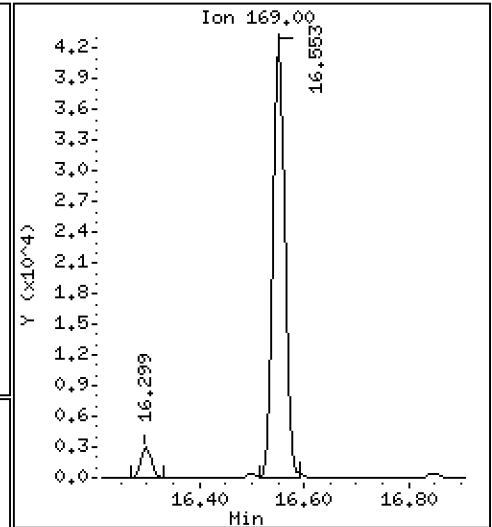
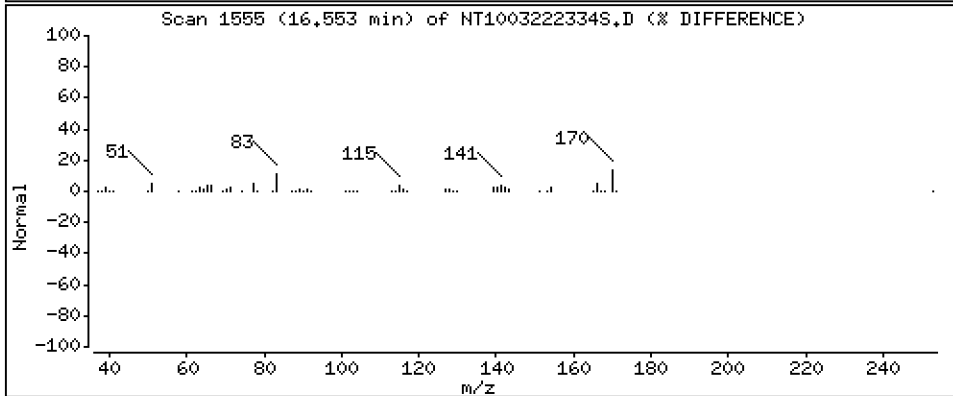
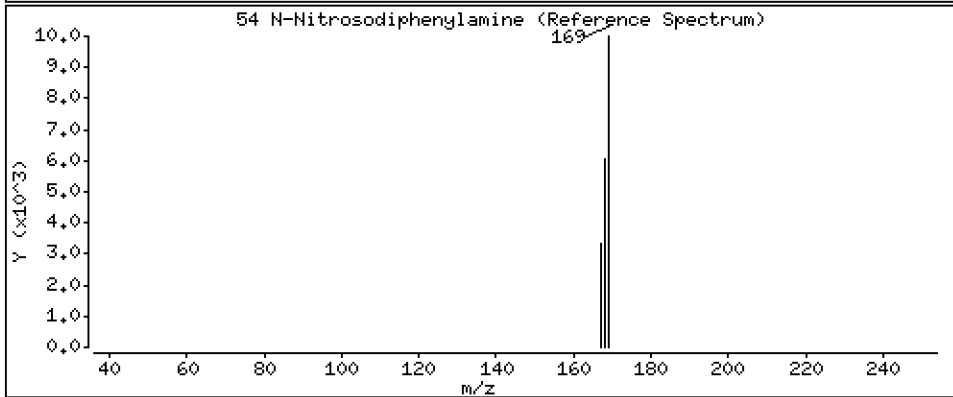
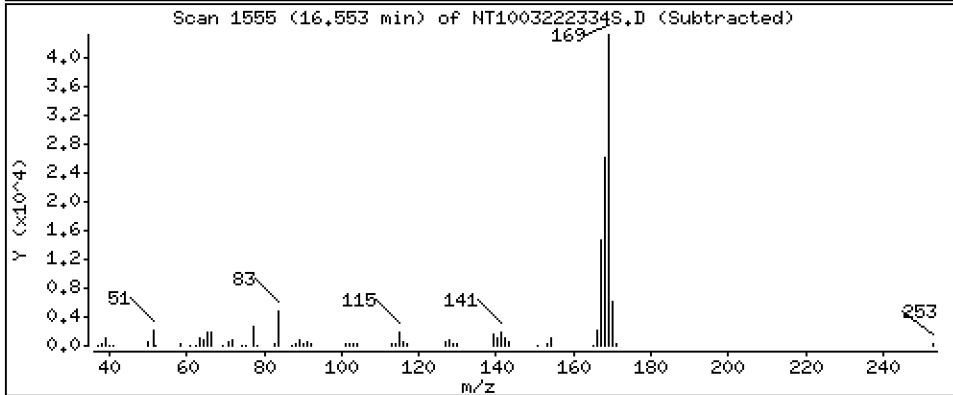
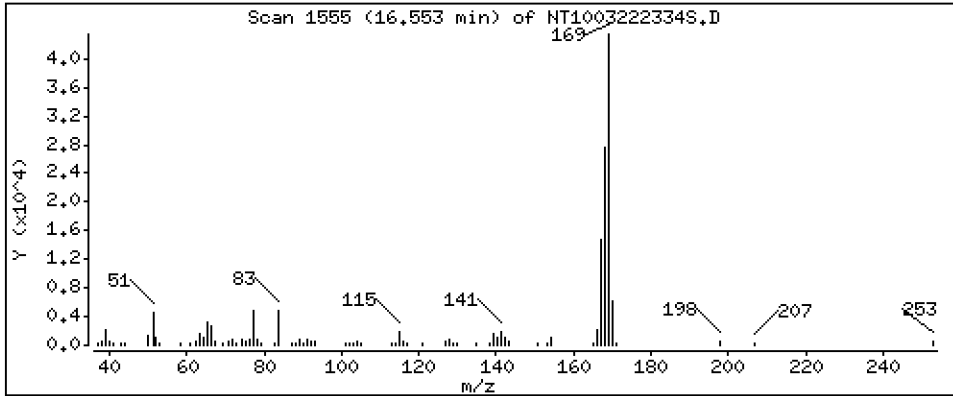
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 1.058 ug/L





Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

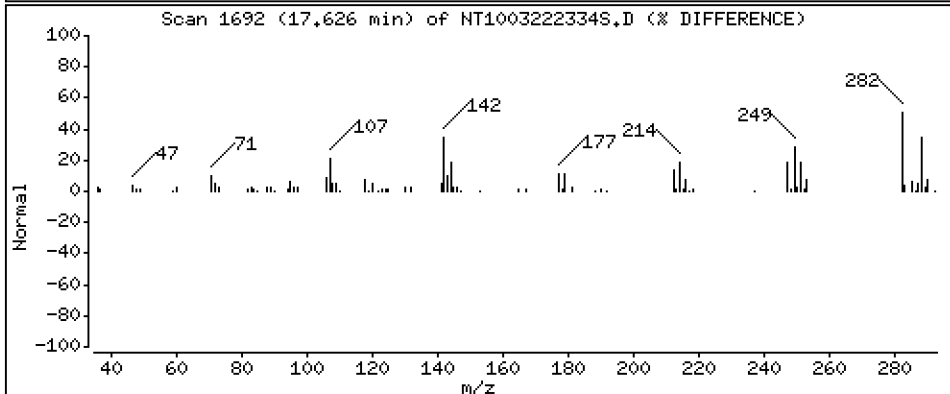
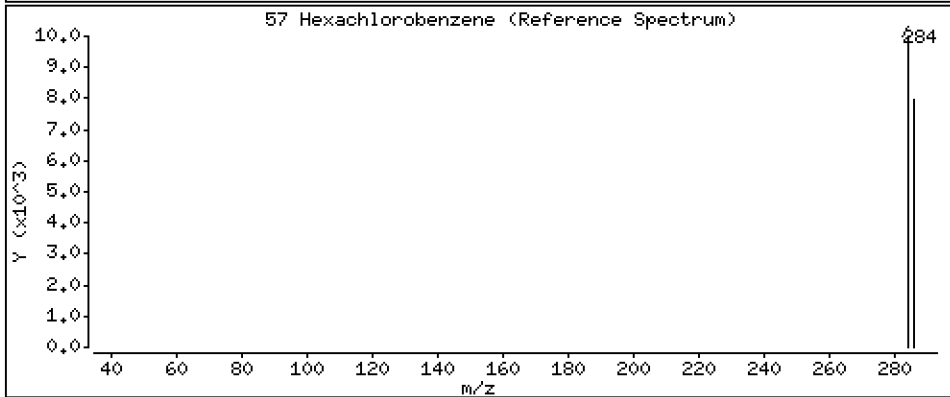
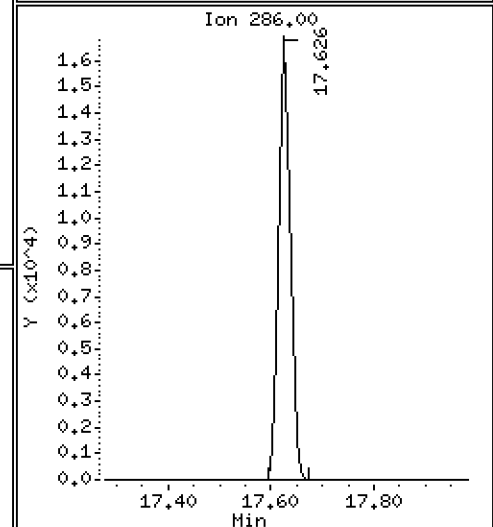
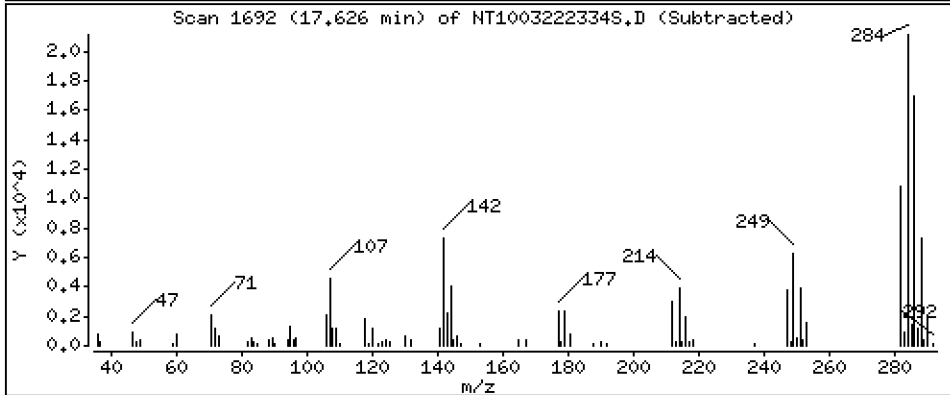
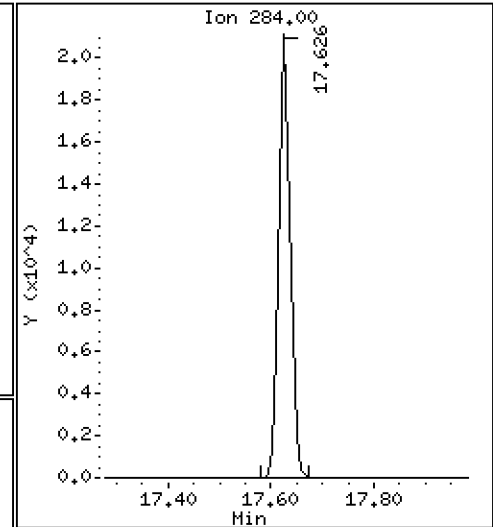
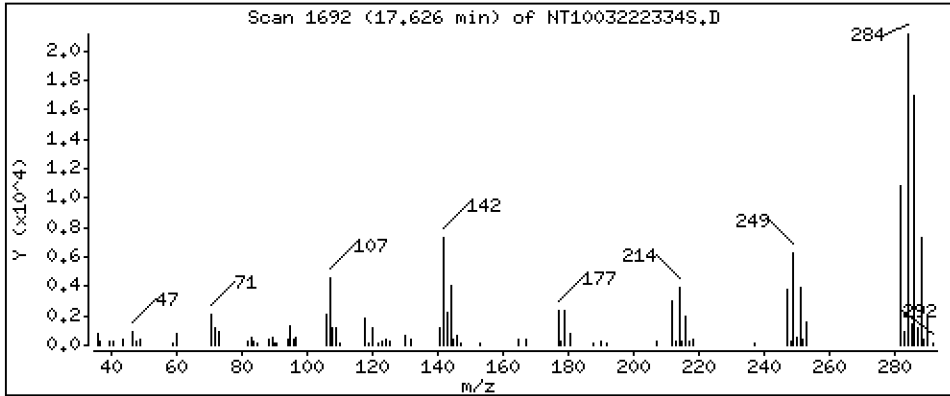
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 1,165 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

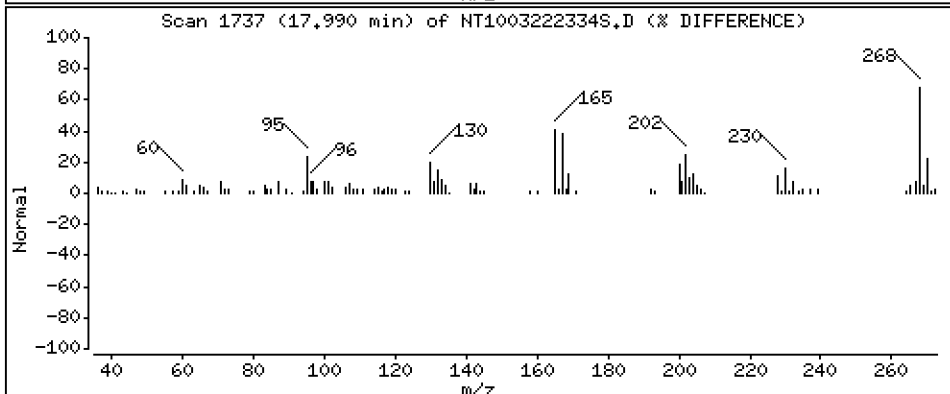
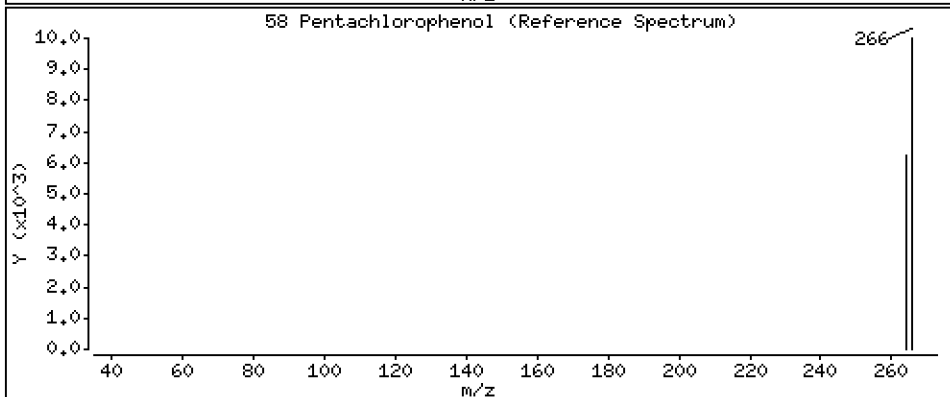
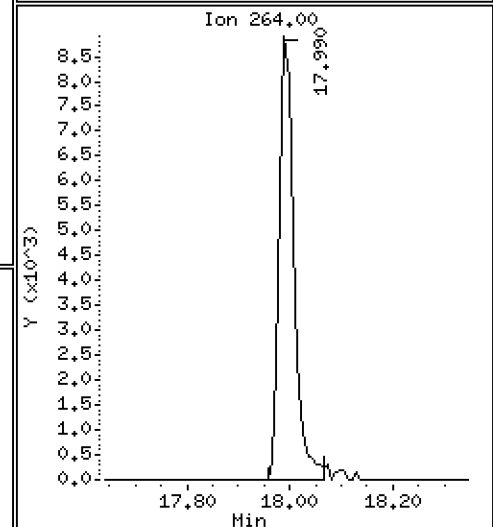
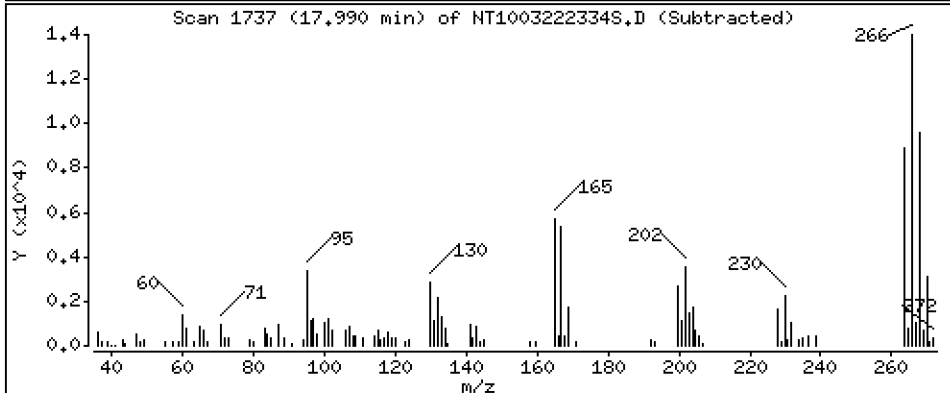
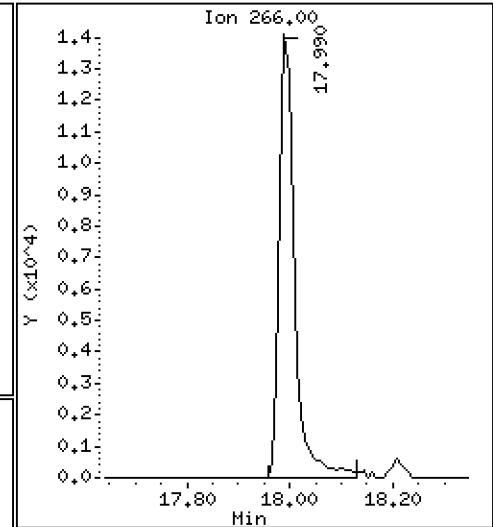
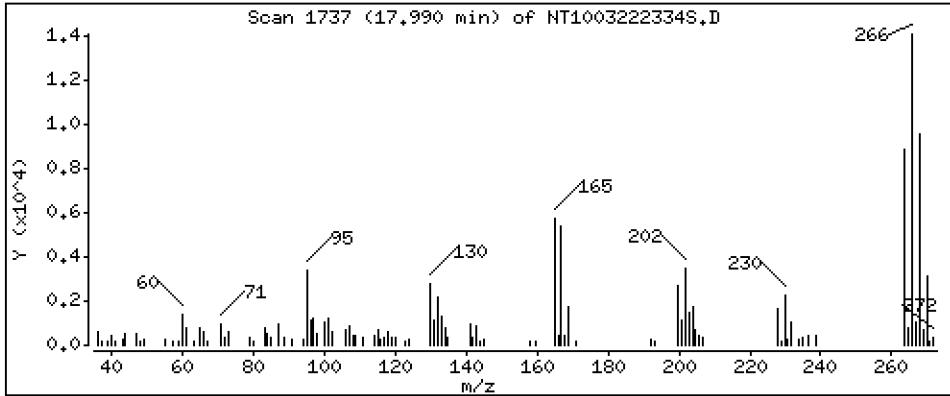
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 1,850 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

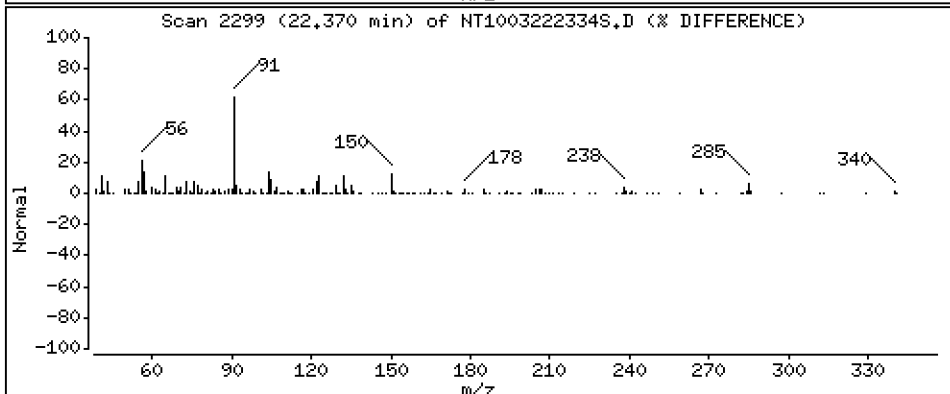
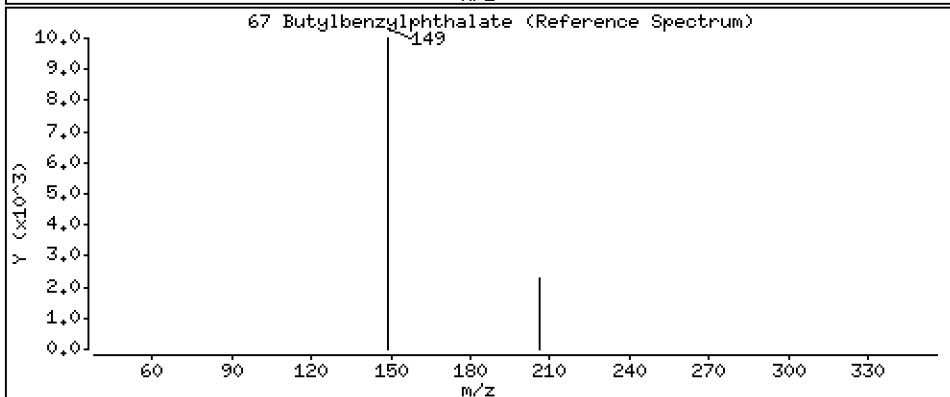
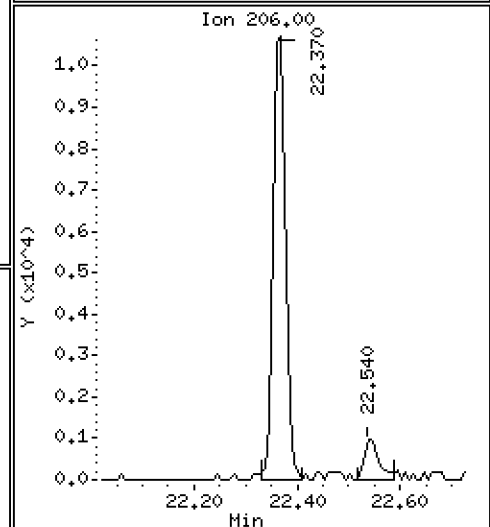
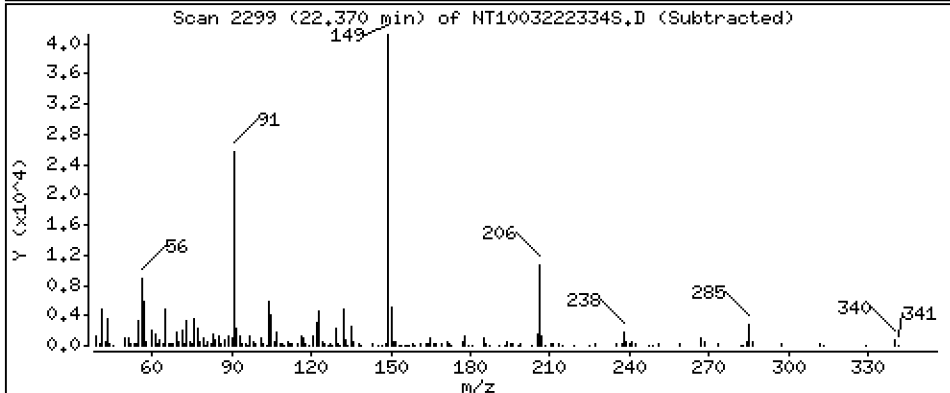
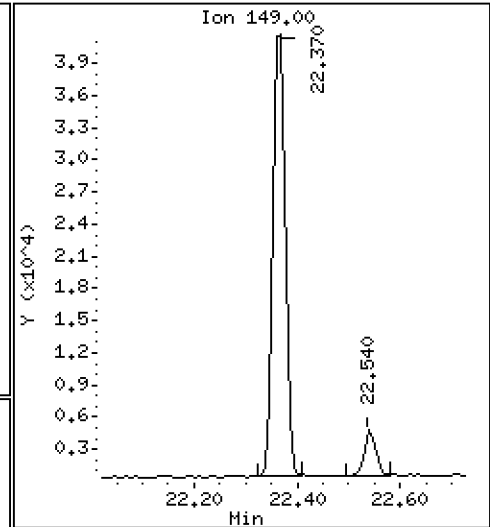
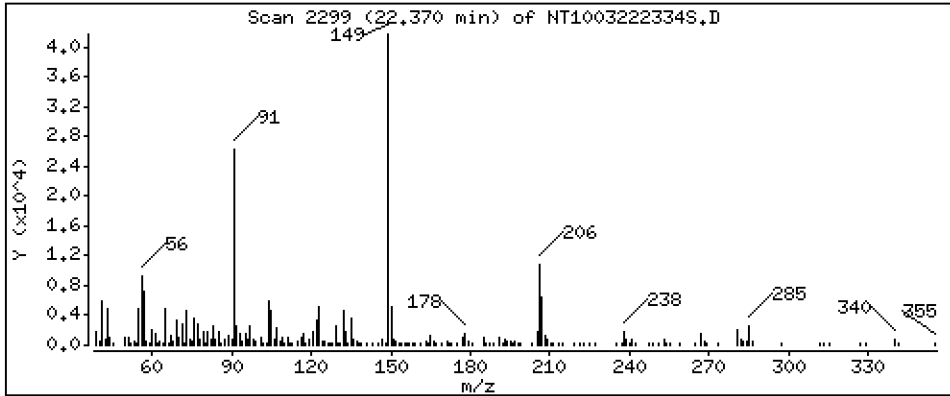
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 1,169 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

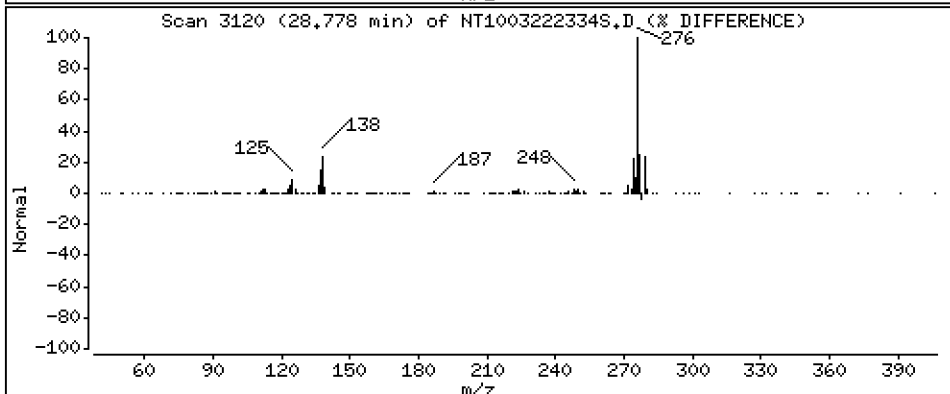
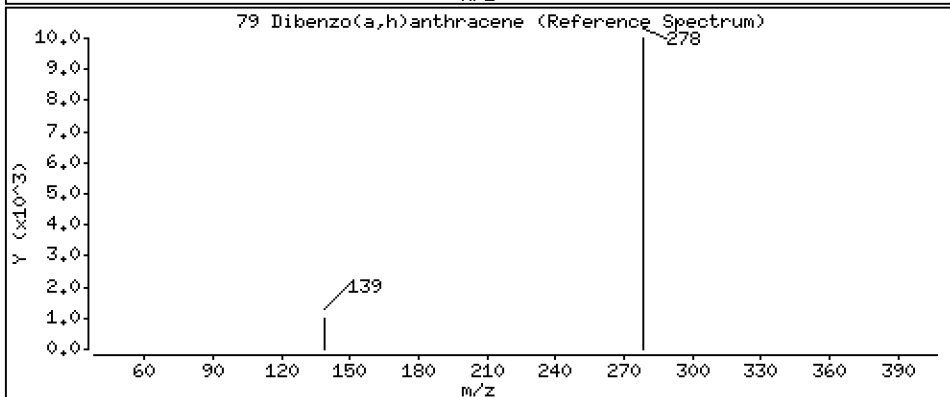
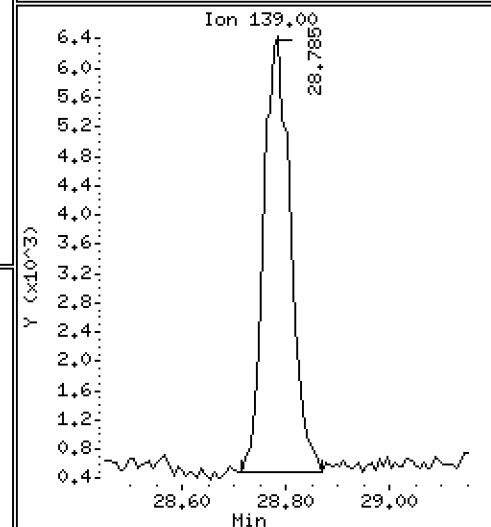
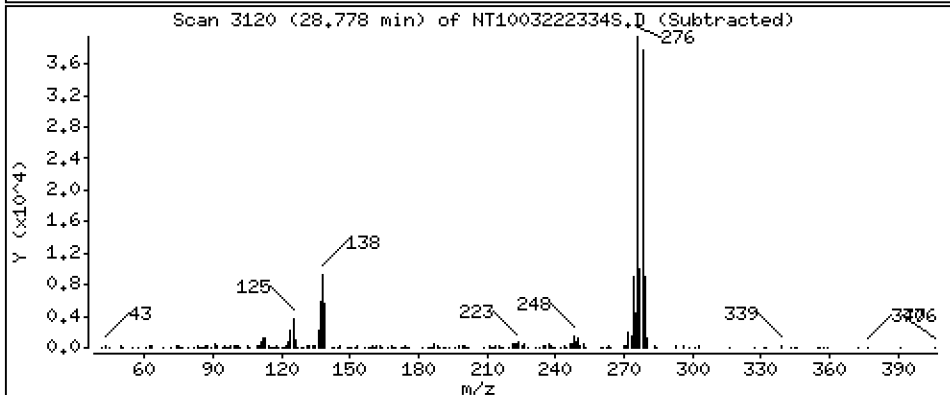
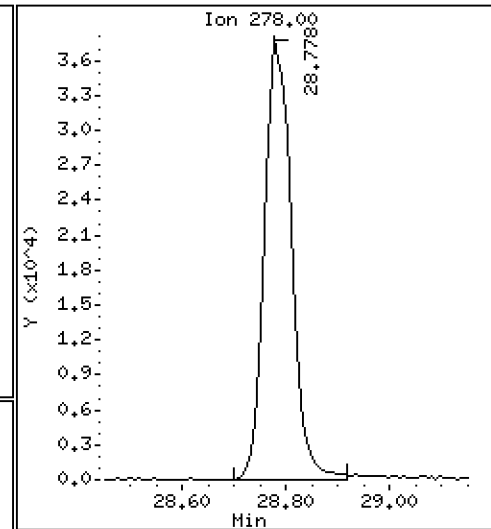
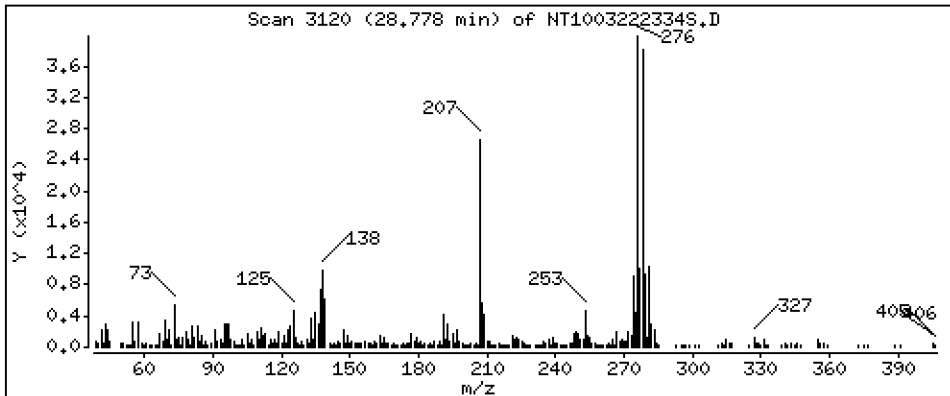
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,9084 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

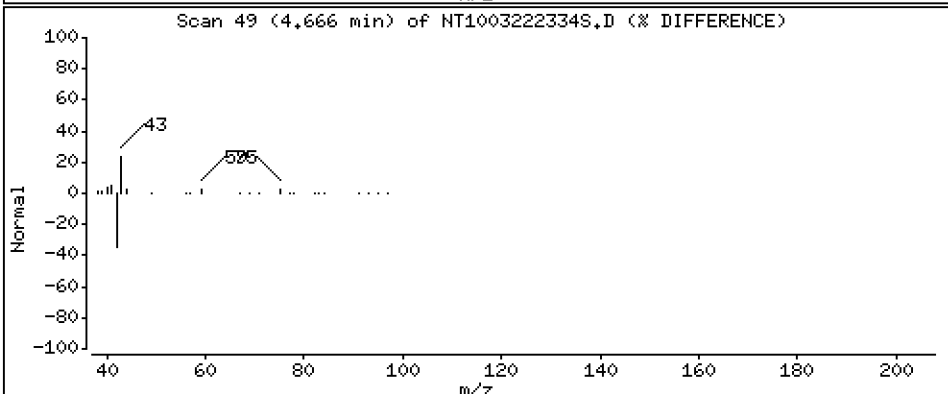
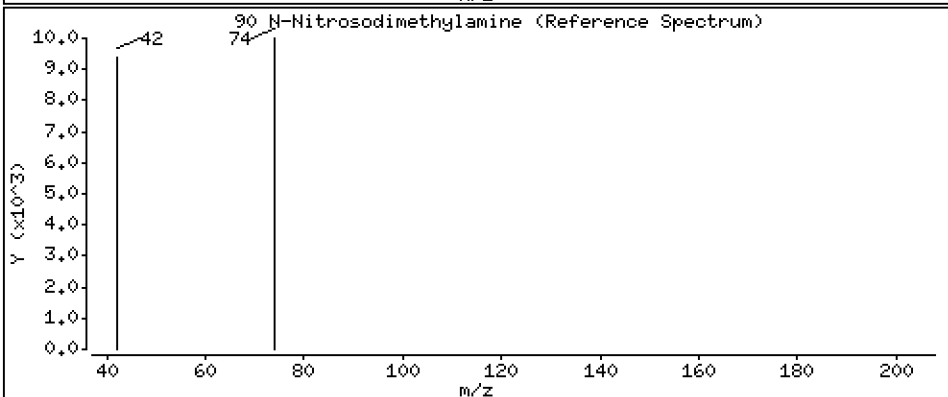
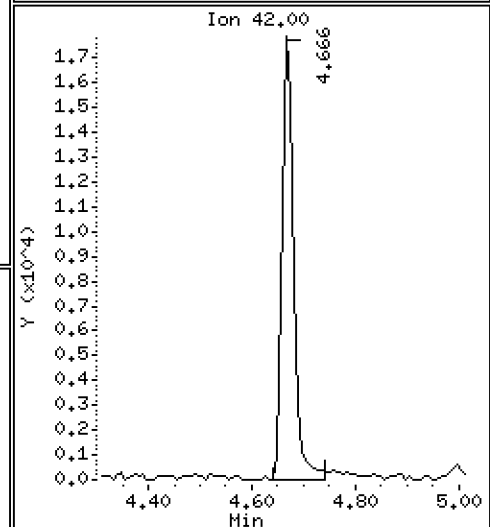
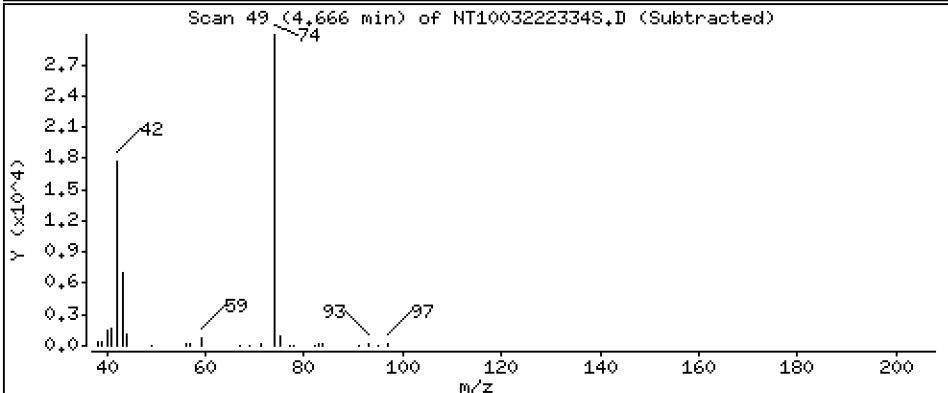
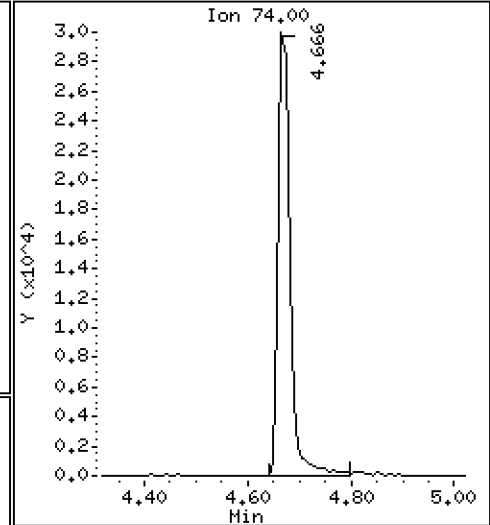
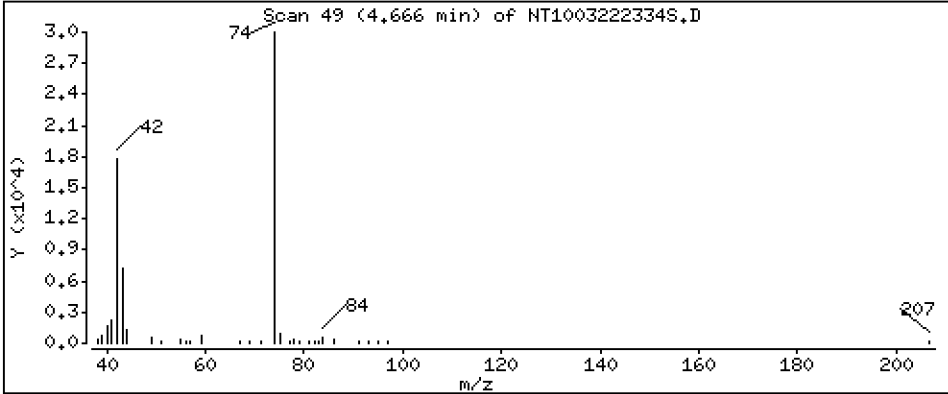
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 2.031 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222334S.D  
 Lab Smp Id: SLC0407-CCV1  
 Inj Date : 23-MAR-2023 14:00 MS Autotune Date: 16-JAN-2023 17:42  
 Operator : JGR Inst ID: nt10.i  
 Smp Info : SEQ-CCVSIM  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Meth Date : 25-Mar-2023 16:11 yev Quant Type: ISTD  
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D  
 Als bottle: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: PSDDA.sub  
 Target Version: 4.14  
 Processing Host: ORGDATA102

Concentration Formula: Amt \* DF \* Uf \* Vt/(Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vi            | 1.000    | Volume injected (uL)            |
| Uf            | 1.000    | ng unit correction factor       |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                     | QUANT | SIG | RT     | EXP RT         | REL RT | RESPONSE | CONCENTRATIONS |           |
|-------------------------------|-------|-----|--------|----------------|--------|----------|----------------|-----------|
|                               |       |     |        |                |        |          | ON-COLUMN      | FINAL     |
|                               | MASS  |     |        |                |        |          | (ug/mL)        | ( ug/L)   |
| \$ 1 2-Fluorophenol           | 112   |     | 6.859  | 6.856 (0.755)  |        | 57366    | 1.62829        | 1.628 (R) |
| 3 Phenol                      | 94    |     | 8.473  | 8.471 (0.933)  |        | 49439    | 1.02285        | 1.023     |
| 7 1,3-Dichlorobenzene         | 146   |     | 9.022  | 9.020 (0.993)  |        | 47160    | 1.04271        | 1.043     |
| * 8 1,4-Dichlorobenzene-d4    | 152   |     | 9.084  | 9.090 (1.000)  |        | 116179   | 4.00000        |           |
| 9 1,4-Dichlorobenzene         | 146   |     | 9.115  | 9.121 (1.003)  |        | 45677    | 1.04620        | 1.046     |
| 11 Benzyl alcohol             | 79    |     | 9.356  | 9.361 (1.030)  |        | 30445    | 1.08650        | 1.086     |
| 12 1,2-Dichlorobenzene        | 146   |     | 9.472  | 9.470 (1.043)  |        | 44346    | 1.03281        | 1.033     |
| 13 2-Methylphenol             | 108   |     | 9.589  | 9.586 (1.056)  |        | 37404    | 1.11682        | 1.117     |
| 15 4-Methylphenol             | 108   |     | 9.861  | 9.858 (1.085)  |        | 39551    | 1.13647        | 1.136     |
| 16 N-Nitroso-di-n-propylamine | 70    |     | 9.915  | 9.920 (1.091)  |        | 27580    | 1.12060        | 1.121     |
| 22 2,4-Dimethylphenol         | 107   |     | 10.901 | 10.906 (0.942) |        | 72935    | 1.95939        | 1.959     |
| 24 Benzoic acid               | 105   |     | 11.036 | 11.033 (0.954) |        | 82312    | 3.98220        | 3.982     |
| 26 1,2,4-Trichlorobenzene     | 180   |     | 11.487 | 11.492 (0.993) |        | 40381    | 1.07839        | 1.078     |
| * 27 Naphthalene-d8           | 136   |     | 11.572 | 11.577 (1.000) |        | 430639   | 4.00000        |           |
| 30 Hexachlorobutadiene        | 225   |     | 11.974 | 11.979 (1.035) |        | 24819    | 1.09017        | 1.090     |
| 39 Dimethylphthalate          | 163   |     | 14.706 | 14.711 (0.967) |        | 88915    | 1.24962        | 1.250     |
| * 42 Acenaphthene-d10         | 162   |     | 15.201 | 15.206 (1.000) |        | 225476   | 4.00000        |           |
| 50 Diethylphthalate           | 149   |     | 16.167 | 16.172 (1.064) |        | 100413   | 1.36224        | 1.362     |
| 54 N-Nitrosodiphenylamine     | 169   |     | 16.553 | 16.558 (0.907) |        | 63565    | 1.05797        | 1.058     |
| 57 Hexachlorobenzene          | 284   |     | 17.626 | 17.631 (0.966) |        | 31345    | 1.16540        | 1.165     |

| Compounds                 | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS       |                  |
|---------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
|                           |           |        |        |         |          | ON-COLUMN<br>(ug/mL) | FINAL<br>( ug/L) |
| 58 Pentachlorophenol      | 266       | 17.990 | 17.995 | (0.986) | 27762    | 1.85025              | 1.850            |
| * 59 Phenanthrene-d10     | 188       | 18.253 | 18.258 | (1.000) | 447813   | 4.00000              |                  |
| \$ 66 Terphenyl-d14       | 244       | 21.425 | 21.438 | (0.918) | 128698   | 1.86497              | 1.865(R)         |
| 67 Butylbenzylphthalate   | 149       | 22.369 | 22.375 | (0.958) | 65884    | 1.16867              | 1.169            |
| * 69 Chrysene-d12         | 240       | 23.345 | 23.350 | (1.000) | 423530   | 4.00000              |                  |
| * 77 Perylene-d12         | 264       | 26.024 | 26.037 | (1.000) | 462101   | 4.00000              |                  |
| 79 Dibenzo(a,h)anthracene | 278       | 28.777 | 28.798 | (1.106) | 137091   | 0.90842              | 0.9084           |
| 90 N-Nitrosodimethylamine | 74        | 4.665  | 4.670  | (0.514) | 45372    | 2.03056              | 2.031            |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: nt10.i  
 Lab File ID: NT1003222334S.D  
 Lab Smp Id: SLC0407-CCV1  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: JGR  
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m  
 Misc Info:

Calibration Date: 23-MAR-2023  
 Calibration Time: 03:52  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Last Continuing Calibrator.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|---------------------|----------|------------|---------|--------|--------|
|                     |          | LOWER      | UPPER   |        |        |
| 8 1,4-Dichlorobenze | 140507   | 70254      | 281014  | 116179 | -17.31 |
| 27 Naphthalene-d8   | 499190   | 249595     | 998380  | 430639 | -13.73 |
| 42 Acenaphthene-d10 | 250303   | 125152     | 500606  | 225476 | -9.92  |
| 59 Phenanthrene-d10 | 496896   | 248448     | 993792  | 447813 | -9.88  |
| 69 Chrysene-d12     | 465837   | 232919     | 931674  | 423530 | -9.08  |
| 77 Perylene-d12     | 551078   | 275539     | 1102156 | 462101 | -16.15 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 8 1,4-Dichlorobenze | 9.09     | 8.59     | 9.59  | 9.08   | -0.06 |
| 27 Naphthalene-d8   | 11.58    | 11.08    | 12.08 | 11.57  | -0.05 |
| 42 Acenaphthene-d10 | 15.21    | 14.71    | 15.71 | 15.20  | -0.03 |
| 59 Phenanthrene-d10 | 18.26    | 17.76    | 18.76 | 18.25  | -0.03 |
| 69 Chrysene-d12     | 23.35    | 22.85    | 23.85 | 23.35  | -0.02 |
| 77 Perylene-d12     | 26.04    | 25.54    | 26.54 | 26.02  | -0.05 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



REVIEW SUMMARY FOR FILE - NT1003222334S.D

Lab ID: SLC0407-CCV1

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 23-MAR-2023 14:00

RT CO-ELUTION COMPOUNDS

---

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-----|-----|-----|-------|----------|
|-----|-----|-----|-------|----------|

---

NONE

RRT check based on Ccal File: SIM.b/NT1003222318S.D

On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

\* Only compounds listed in the work order have been verified by the analyst \*



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 8270E-SIM

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLC0238

Instrument: NT10

Calibration: GC00049

| Sample Name       | Lab Sample ID | Lab File ID   | Matrix | Analysis Date/Time |
|-------------------|---------------|---------------|--------|--------------------|
| MS Tune           | SLC0238-TUN1  | NT10031501S.D | NA     | 03/15/23 20:19     |
| ABN 10.0          | SLC0238-CAL8  | NT10031503S.D | NA     | 03/15/23 21:12     |
| ABN 5.0           | SLC0238-CAL7  | NT10031504S.D | NA     | 03/15/23 21:50     |
| ABN 2.5           | SLC0238-CAL6  | NT10031505S.D | NA     | 03/15/23 22:28     |
| ABN 1.0           | SLC0238-CAL5  | NT10031506S.D | NA     | 03/15/23 23:06     |
| ABN 0.5           | SLC0238-CAL4  | NT10031507S.D | NA     | 03/15/23 23:44     |
| ABN 0.2           | SLC0238-CAL3  | NT10031508S.D | NA     | 03/16/23 00:22     |
| ABN 0.1           | SLC0238-CAL2  | NT10031509S.D | NA     | 03/16/23 01:00     |
| ABN 0.05          | SLC0238-CAL1  | NT10031510S.D | NA     | 03/16/23 01:38     |
| SCV 5.0           | SLC0238-SCV1  | NT10031511S.D | NA     | 03/16/23 02:16     |
| Initial Cal Blank | SLC0238-ICB1  | NT10031512S.D | NA     | 03/16/23 02:54     |



ANALYSIS SEQUENCE

SLC0238

Instrument ID: NT10      GCMS Description: Agilent 5975/MS http://bi  
Calibration ID: GC00049      GCMS Column ID: L002830  
MS EM Level: 1271 EV

| Lab Number   | Sample Name       | Analysis | Container | Order | STD ID  | ISTD ID | Analyzed         | File ID       | Analyst | Comments |
|--------------|-------------------|----------|-----------|-------|---------|---------|------------------|---------------|---------|----------|
| SLC0238-TUN1 | MS Tune           | QC       |           | 1     | L002618 |         | 03/15/2023 20:19 | NT10031501S.D | JGR     |          |
| SLC0238-CAL8 | ABN 10.0          | QC       |           | 2     | K011110 | K010831 | 03/15/2023 21:12 | NT10031503S.D | JGR     |          |
| SLC0238-CAL7 | ABN 5.0           | QC       |           | 3     | K011109 | K010831 | 03/15/2023 21:50 | NT10031504S.D | JGR     |          |
| SLC0238-CAL6 | ABN 2.5           | QC       |           | 4     | K011108 | K010831 | 03/15/2023 22:28 | NT10031505S.D | JGR     |          |
| SLC0238-CAL5 | ABN 1.0           | QC       |           | 5     | K011107 | K010831 | 03/15/2023 23:06 | NT10031506S.D | JGR     |          |
| SLC0238-CAL4 | ABN 0.5           | QC       |           | 6     | K011106 | K010831 | 03/15/2023 23:44 | NT10031507S.D | JGR     |          |
| SLC0238-CAL3 | ABN 0.2           | QC       |           | 7     | K011105 | K010831 | 03/16/2023 00:22 | NT10031508S.D | JGR     |          |
| SLC0238-CAL2 | ABN 0.1           | QC       |           | 8     | L002877 | K010831 | 03/16/2023 01:00 | NT10031509S.D | JGR     |          |
| SLC0238-CAL1 | ABN 0.05          | QC       |           | 9     | L002878 | K010831 | 03/16/2023 01:38 | NT10031510S.D | JGR     |          |
| SLC0238-SCV1 | SCV 5.0           | QC       |           | 10    | K010066 | K010831 | 03/16/2023 02:16 | NT10031511S.D | JGR     |          |
| SLC0238-ICB1 | Initial Cal Blank | QC       |           | 11    | K005156 | K010831 | 03/16/2023 02:54 | NT10031512S.D | JGR     |          |

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b\20230315.b

| Time | Filename | LabID         | ClientId       | DF |                |        |       |        |       |        |       |        |       |        |       |        |
|------|----------|---------------|----------------|----|----------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 1    | 2019     | NT10031501S.D | SLC0238-TUN1   | 1  | NO ISTDS FOUND |        |       |        |       |        |       |        |       |        |       |        |
| 2    | 2034     | NT10031502S.D | FULL SCAN ONLY | 1  | 9.31           | 193857 | 11.78 | 709633 | 15.39 | 344841 | 18.43 | 635594 | 23.46 | 392013 | 26.19 | 449978 |
| 3    | 2112     | NT10031503S.D | SLC0238-CAL8   | 1  | 9.31           | 192425 | 11.78 | 689875 | 15.39 | 341663 | 18.42 | 651934 | 23.45 | 482051 | 26.19 | 502718 |
| 4    | 2150     | NT10031504S.D | SLC0238-CAL7   | 1  | 9.30           | 187419 | 11.77 | 682446 | 15.38 | 331603 | 18.42 | 598629 | 23.45 | 389338 | 26.19 | 466441 |
| 5    | 2228     | NT10031505S.D | SLC0238-CAL6   | 1  | 9.30           | 173412 | 11.78 | 624286 | 15.38 | 310309 | 18.43 | 554860 | 23.46 | 385144 | 26.19 | 456369 |
| 6    | 2306     | NT10031506S.D | SLC0238-CAL5   | 1  | 9.30           | 188081 | 11.77 | 674549 | 15.39 | 328275 | 18.42 | 597140 | 23.45 | 466503 | 26.19 | 518203 |
| 7    | 2344     | NT10031507S.D | SLC0238-CAL4   | 1  | 9.30           | 191648 | 11.77 | 679665 | 15.39 | 335786 | 18.42 | 613961 | 23.45 | 464623 | 26.19 | 521317 |
| 8    | 0022     | NT10031508S.D | SLC0238-CAL3   | 1  | 9.30           | 188644 | 11.78 | 664117 | 15.38 | 328147 | 18.42 | 603272 | 23.46 | 468991 | 26.18 | 525052 |
| 9    | 0100     | NT10031509S.D | SLC0238-CAL2   | 1  | 9.30           | 190985 | 11.77 | 684638 | 15.39 | 328366 | 18.42 | 602202 | 23.45 | 451316 | 26.19 | 517188 |
| 10   | 0138     | NT10031510S.D | SLC0238-CAL1   | 1  | 9.30           | 187154 | 11.78 | 654413 | 15.38 | 318969 | 18.42 | 583319 | 23.46 | 440533 | 26.19 | 488759 |
| 11   | 0216     | NT10031511S.D | SLC0238-SCV1   | 1  | 9.31           | 166866 | 11.78 | 612104 | 15.39 | 302524 | 18.43 | 553619 | 23.46 | 465428 | 26.19 | 532593 |
| 12   | 0254     | NT10031512S.D | SLC0238-ICB1   | 1  | 9.31           | 189475 | 11.77 | 676186 | 15.38 | 328650 | 18.42 | 617605 | 23.45 | 473513 | 26.19 | 534734 |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b\20230315.b

Instrument: nt10.i Date: 15-MAR-2023

| Time | Filename      | LabID          | DF | Manually Integrated Compounds |
|------|---------------|----------------|----|-------------------------------|
| 2019 | NT10031501S.D | SLC0238-TUN1   | 1  | NO MANUAL INTEGRATION         |
| 2034 | NT10031502S.D | FULL SCAN ONLY | 1  | NO MANUAL INTEGRATION         |
| 2112 | NT10031503S.D | SLC0238-CAL8   | 1  | NO MANUAL INTEGRATION         |
| 2150 | NT10031504S.D | SLC0238-CAL7   | 1  | NO MANUAL INTEGRATION         |
| 2228 | NT10031505S.D | SLC0238-CAL6   | 1  | NO MANUAL INTEGRATION         |
| 2306 | NT10031506S.D | SLC0238-CAL5   | 1  | NO MANUAL INTEGRATION         |
| 2344 | NT10031507S.D | SLC0238-CAL4   | 1  | NO MANUAL INTEGRATION         |
| 0022 | NT10031508S.D | SLC0238-CAL3   | 1  | Benzoic acid,                 |
| 0100 | NT10031509S.D | SLC0238-CAL2   | 1  | Pentachlorophenol,            |
| 0138 | NT10031510S.D | SLC0238-CAL1   | 1  | Pentachlorophenol,            |
| 0216 | NT10031511S.D | SLC0238-SCV1   | 1  | Terphenyl-d14,                |
| 0254 | NT10031512S.D | SLC0238-ICB1   | 1  | NO MANUAL INTEGRATION         |

Security Status Report

Date: 16-Mar-2023 14:47

|               |             |                        |
|---------------|-------------|------------------------|
| NT10031501S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031502S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031503S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031504S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031505S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031506S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031507S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031508S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031509S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031510S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031511S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031512S.D | Data Locked | van, 16-Mar-2023 14:47 |



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 8270E-SIM

|             |                                  |              |                        |
|-------------|----------------------------------|--------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG:         | <u>23A0179</u>         |
| Client:     | <u>Anchor QEA, LLC</u>           | Project:     | <u>AOC5 MR Phase 1</u> |
| Sequence:   | <u>SLC0407</u>                   | Instrument:  | <u>NT10</u>            |
|             |                                  | Calibration: | <u>GC00049</u>         |

| Sample Name       | Lab Sample ID | Lab File ID     | Matrix | Analysis Date/Time |
|-------------------|---------------|-----------------|--------|--------------------|
| ABN 1             | SLC0407-ICV1  | NT1003222303S.D | NA     | 03/22/23 18:20     |
| Blank             | BLC0442-BLK2  | NT1003222306S.D | Solid  | 03/22/23 20:16     |
| LCS               | BLC0442-BS2   | NT1003222307S.D | Solid  | 03/22/23 20:54     |
| LCS Dup           | BLC0442-BSD2  | NT1003222308S.D | Solid  | 03/22/23 21:32     |
| Reference         | BLC0442-SRM2  | NT1003222309S.D | Solid  | 03/22/23 22:10     |
| LDW23-SS1277      | 23A0179-01RE1 | NT1003222310S.D | Solid  | 03/22/23 22:49     |
| LDW23-SS1271      | 23A0179-02RE1 | NT1003222311S.D | Solid  | 03/22/23 23:27     |
| LDW23-SS1266      | 23A0179-03RE1 | NT1003222312S.D | Solid  | 03/23/23 00:05     |
| LDW23-SS1248      | 23A0179-04RE1 | NT1003222313S.D | Solid  | 03/23/23 00:43     |
| LDW23-SS1239      | 23A0179-05RE1 | NT1003222314S.D | Solid  | 03/23/23 01:21     |
| LDW23-SS1213      | 23A0179-06RE1 | NT1003222315S.D | Solid  | 03/23/23 01:59     |
| LDW23-SS1200      | 23A0179-07RE1 | NT1003222316S.D | Solid  | 03/23/23 02:37     |
| ABN 1             | SLC0407-ICV2  | NT1003222318S.D | NA     | 03/23/23 03:52     |
| Instrument Blank  | SLC0407-IBL1  | NT1003222321S.D | NA     | 03/23/23 05:46     |
| LDW23-SS1200      | BLC0442-MS2   | NT1003222322S.D | Solid  | 03/23/23 06:24     |
| LDW23-SS1200      | BLC0442-MSD2  | NT1003222323S.D | Solid  | 03/23/23 07:01     |
| LDW23-SS1178      | 23A0179-08RE1 | NT1003222324S.D | Solid  | 03/23/23 07:39     |
| LDW23-SS1171      | 23A0179-09RE1 | NT1003222325S.D | Solid  | 03/23/23 08:17     |
| LDW23-SS1112      | 23A0179-10RE1 | NT1003222326S.D | Solid  | 03/23/23 08:55     |
| LDW23-SS1039      | 23A0179-11RE1 | NT1003222327S.D | Solid  | 03/23/23 09:33     |
| LDW23-SS1007      | 23A0179-12RE1 | NT1003222328S.D | Solid  | 03/23/23 10:11     |
| ZZZZZ             | 23A0180-01RE1 | NT1003222329S.D | Solid  | 03/23/23 10:49     |
| ZZZZZ             | 23A0180-02RE1 | NT1003222330S.D | Solid  | 03/23/23 11:27     |
| ZZZZZ             | 23A0180-03RE1 | NT1003222331S.D | Solid  | 03/23/23 12:05     |
| ZZZZZ             | 23A0180-04RE1 | NT1003222332S.D | Solid  | 03/23/23 12:44     |
| Calibration Check | SLC0407-CCV1  | NT1003222334S.D | NA     | 03/23/23 14:00     |



ANALYSIS SEQUENCE

SLC0407

Instrument: NT10  
Calibration ID: GC00049

Printed: 3/25/2023 4:56:28PM

| Lab Number    | Analysis                 | Container | Order | Position | STD ID  | ISTD ID | Client          | Comments                         |
|---------------|--------------------------|-----------|-------|----------|---------|---------|-----------------|----------------------------------|
| SLC0407-ICV1  | QC                       |           | 1     |          | K011107 | K010831 |                 |                                  |
| BLC0442-BLK2  | QC                       |           | 2     |          |         | K010831 |                 |                                  |
| BLC0442-BS2   | QC                       |           | 3     |          |         | K010831 |                 |                                  |
| BLC0442-BSD2  | QC                       |           | 4     |          |         | K010831 |                 |                                  |
| BLC0442-SRM2  | QC                       |           | 5     |          |         | K010831 |                 |                                  |
| 23A0179-01RE1 | 8270E-SIM Dual Scan SVOC | A 05      | 6     |          |         | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| 23A0179-02RE1 | 8270E-SIM Dual Scan SVOC | A 05      | 7     |          |         | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| 23A0179-03RE1 | 8270E-SIM Dual Scan SVOC | A 05      | 8     |          |         | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| 23A0179-04RE1 | 8270E-SIM Dual Scan SVOC | A 05      | 9     |          |         | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| 23A0179-05RE1 | 8270E-SIM Dual Scan SVOC | A 05      | 10    |          |         | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| 23A0179-06RE1 | 8270E-SIM Dual Scan SVOC | A 05      | 11    |          |         | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| 23A0179-07RE1 | 8270E-SIM Dual Scan SVOC | A 05      | 12    |          |         | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| SLC0407-ICV2  | QC                       |           | 13    |          | K011107 | K010831 |                 |                                  |
| SLC0407-IBL1  | QC                       |           | 14    |          | K005156 | K010831 |                 |                                  |
| BLC0442-MS2   | QC                       |           | 15    |          |         | K010831 |                 |                                  |
| BLC0442-MSD2  | QC                       |           | 16    |          |         | K010831 |                 |                                  |
| 23A0179-08RE1 | 8270E-SIM Dual Scan SVOC | A 05      | 17    |          |         | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| 23A0179-09RE1 | 8270E-SIM Dual Scan SVOC | A 05      | 18    |          |         | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| 23A0179-10RE1 | 8270E-SIM Dual Scan SVOC | A 05      | 19    |          |         | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| 23A0179-11RE1 | 8270E-SIM Dual Scan SVOC | A 05      | 20    |          |         | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| 23A0179-12RE1 | 8270E-SIM Dual Scan SVOC | A 05      | 21    |          |         | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |

Samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

Data Processed By \_\_\_\_\_ Date \_\_\_\_\_





## INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b\SIM.b

| Time | Filename | LabID           | ClientId     | DF |   |  |      |               |               |               |               |               |        |
|------|----------|-----------------|--------------|----|---|--|------|---------------|---------------|---------------|---------------|---------------|--------|
| 1    | 1820     | NT1003222303S.D | SLC0407-ICV1 |    | 1 |  | 9.09 | 135191  11.57 | 487226  15.20 | 246588  18.25 | 479352  23.34 | 439791  26.03 | 505700 |
| 2    | 1859     | NT1003222304S.D | SEQ-LCV200   |    | 1 |  | 9.09 | 159020  11.57 | 550053  15.19 | 274703  18.25 | 513021  23.34 | 466881  26.03 | 527507 |
| 3    | 1937     | NT1003222305S.D | SEQ-LCV100   |    | 1 |  | 9.09 | 144866  11.57 | 500650  15.19 | 248801  18.25 | 469361  23.34 | 412326  26.02 | 473527 |
| 4    | 2016     | NT1003222306S.D | BLC0442-BLK2 |    | 1 |  | 9.09 | 184770  11.57 | 645327  15.20 | 320820  18.25 | 609921  23.34 | 528163  26.02 | 592176 |
| 5    | 2054     | NT1003222307S.D | BLC0442-BS2  |    | 1 |  | 9.08 | 174597  11.58 | 639634  15.20 | 322589  18.25 | 633150  23.34 | 572648  26.03 | 635593 |
| 6    | 2132     | NT1003222308S.D | BLC0442-BSD2 |    | 1 |  | 9.09 | 168404  11.58 | 617172  15.20 | 314236  18.25 | 622069  23.34 | 538810  26.03 | 608756 |
| 7    | 2210     | NT1003222309S.D | BLC0442-SRM2 |    | 1 |  | 9.08 | 194361  11.57 | 688684  15.20 | 340192  18.25 | 669550  23.34 | 590805  26.02 | 678670 |
| 8    | 2249     | NT1003222310S.D | 23A0179-01   |    | 1 |  | 9.09 | 182866  11.58 | 659488  15.20 | 329944  18.25 | 685590  23.35 | 633755  26.04 | 747858 |
| 9    | 2327     | NT1003222311S.D | 23A0179-02   |    | 1 |  | 9.09 | 200759  11.58 | 720656  15.20 | 343861  18.26 | 729888  23.35 | 650043  26.05 | 755158 |
| 10   | 0005     | NT1003222312S.D | 23A0179-03   |    | 1 |  | 9.09 | 193127  11.58 | 694580  15.20 | 337082  18.26 | 714334  23.35 | 642901  26.04 | 755383 |
| 11   | 0043     | NT1003222313S.D | 23A0179-04   |    | 1 |  | 9.09 | 182142  11.58 | 673218  15.20 | 326672  18.26 | 703974  23.36 | 629362  26.05 | 740470 |
| 12   | 0121     | NT1003222314S.D | 23A0179-05   |    | 1 |  | 9.09 | 190341  11.58 | 679303  15.20 | 330974  18.26 | 699078  23.36 | 628385  26.05 | 737138 |
| 13   | 0159     | NT1003222315S.D | 23A0179-06   |    | 1 |  | 9.09 | 186026  11.58 | 675158  15.21 | 332455  18.26 | 709699  23.36 | 645854  26.05 | 745650 |
| 14   | 0237     | NT1003222316S.D | 23A0179-07   |    | 1 |  | 9.09 | 179128  11.58 | 636177  15.21 | 313559  18.26 | 658568  23.36 | 582665  26.05 | 696672 |
| 15   | 0315     | NT1003222317S.D | SEQ-CCVFULL  |    | 1 |  | 9.09 | 151791  11.58 | 551037  15.21 | 273343  18.26 | 563483  23.36 | 522164  26.05 | 615484 |
| 16   | 0352     | NT1003222318S.D | SLC0407-ICV2 |    | 1 |  | 9.09 | 140507  11.58 | 499190  15.21 | 250303  18.26 | 496896  23.35 | 465837  26.04 | 551078 |
| 17   | 0430     | NT1003222319S.D | SEQ-LCV200   |    | 1 |  | 9.08 | 151557  11.58 | 530339  15.20 | 264545  18.26 | 511794  23.35 | 472783  26.05 | 558622 |
| 18   | 0508     | NT1003222320S.D | SEQ-LCV100   |    | 1 |  | 9.08 | 134658  11.58 | 471414  15.20 | 232569  18.26 | 446973  23.35 | 418273  26.05 | 488417 |
| 19   | 0546     | NT1003222321S.D | SLC0407-IBL1 |    | 1 |  | 9.08 | 178871  11.58 | 638364  15.20 | 315474  18.26 | 604250  23.35 | 549439  26.04 | 633519 |
| 20   | 0624     | NT1003222322S.D | BLC0442-MS2  |    | 1 |  | 9.09 | 157202  11.58 | 573631  15.21 | 295406  18.26 | 615665  23.36 | 557974  26.05 | 678005 |

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b\SIM.b

| Time | Filename | LabID           | ClientId     | DF |   |  |      |               |               |               |               |               |        |
|------|----------|-----------------|--------------|----|---|--|------|---------------|---------------|---------------|---------------|---------------|--------|
| 21   | 0701     | NT1003222323S.D | BLC0442-MSD2 |    | 1 |  | 9.09 | 161357  11.58 | 580639  15.21 | 300651  18.26 | 630227  23.36 | 553948  26.05 | 656455 |
| 22   | 0739     | NT1003222324S.D | 23A0179-08   |    | 1 |  | 9.09 | 165148  11.58 | 596405  15.21 | 294954  18.26 | 629413  23.36 | 584289  26.05 | 668897 |
| 23   | 0817     | NT1003222325S.D | 23A0179-09   |    | 1 |  | 9.09 | 165680  11.58 | 598211  15.21 | 302560  18.26 | 642018  23.36 | 603401  26.05 | 670397 |
| 24   | 0855     | NT1003222326S.D | 23A0179-10   |    | 1 |  | 9.09 | 164795  11.58 | 598663  15.20 | 294535  18.26 | 639886  23.36 | 606398  26.06 | 664262 |
| 25   | 0933     | NT1003222327S.D | 23A0179-11   |    | 1 |  | 9.09 | 175820  11.58 | 624863  15.21 | 307249  18.26 | 652187  23.37 | 603648  26.06 | 663172 |
| 26   | 1011     | NT1003222328S.D | 23A0179-12   |    | 1 |  | 9.09 | 177351  11.59 | 642224  15.21 | 313530  18.27 | 665755  23.37 | 623237  26.07 | 675873 |
| 27   | 1049     | NT1003222329S.D | 23A0180-01   |    | 1 |  | 9.09 | 162405  11.59 | 584903  15.21 | 286668  18.27 | 630971  23.37 | 572641  26.08 | 618527 |
| 28   | 1127     | NT1003222330S.D | 23A0180-02   |    | 1 |  | 9.09 | 164380  11.59 | 592145  15.21 | 287707  18.27 | 626634  23.37 | 550041  26.08 | 591581 |
| 29   | 1205     | NT1003222331S.D | 23A0180-03   |    | 1 |  | 9.09 | 159142  11.58 | 578341  15.20 | 281002  18.26 | 611326  23.36 | 556524  26.05 | 602291 |
| 30   | 1244     | NT1003222332S.D | 23A0180-04   |    | 1 |  | 9.09 | 145720  11.58 | 534791  15.20 | 261557  18.26 | 577037  23.36 | 540918  26.04 | 578351 |
| 31   | 1322     | NT1003222333S.D | SEQ-CCVFULL  |    | 1 |  | 9.09 | 116166  11.57 | 422030  15.20 | 231219  18.25 | 458729  23.35 | 445925  26.02 | 483312 |
| 32   | 1400     | NT1003222334S.D | SLC0407-CCV1 |    | 1 |  | 9.08 | 116179  11.57 | 430639  15.20 | 225476  18.25 | 447813  23.35 | 423530  26.02 | 462101 |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b\SIM.b

ARI Job No.: SLC0 Method: SIM.b\SIMABN2.m Instrument: nt10.i Date: 22-MAR-2023

| Time | Filename        | LabID        | ClientId | DF | Manually Integrated Compounds  |
|------|-----------------|--------------|----------|----|--|
| 1820 | NT1003222303S.D | SLC0407-ICV1 |          | 1  | 1,4-Dichlorobenzene,   |
| 1859 | NT1003222304S.D | SEQ-LCV200   |          | 1  | NO MANUAL INTEGRATION  |
| 1937 | NT1003222305S.D | SEQ-LCV100   |          | 1  | NO MANUAL INTEGRATION  |
| 2016 | NT1003222306S.D | BLC0442-BLK2 |          | 1  | NO MANUAL INTEGRATION  |
| 2054 | NT1003222307S.D | BLC0442-BS2  |          | 1  | NO MANUAL INTEGRATION  |
| 2132 | NT1003222308S.D | BLC0442-BSD2 |          | 1  | NO MANUAL INTEGRATION  |
| 2210 | NT1003222309S.D | BLC0442-SRM2 |          | 1  | NO MANUAL INTEGRATION  |
| 2249 | NT1003222310S.D | 23A0179-01   |          | 1  | 1,4-Dichlorobenzene, Benzyl alcohol, Dimethylphthalate, Pentachlorophenol, |
| 2327 | NT1003222311S.D | 23A0179-02   |          | 1  | 1,4-Dichlorobenzene, Benzyl alcohol, Dimethylphthalate, Pentachlorophenol, |
| 0005 | NT1003222312S.D | 23A0179-03   |          | 1  | 1,4-Dichlorobenzene, Benzyl alcohol, Pentachlorophenol,                    |
| 0043 | NT1003222313S.D | 23A0179-04   |          | 1  | 1,4-Dichlorobenzene, Benzyl alcohol,                                       |
| 0121 | NT1003222314S.D | 23A0179-05   |          | 1  | Benzyl alcohol, Dimethylphthalate, Pentachlorophenol,                      |
| 0159 | NT1003222315S.D | 23A0179-06   |          | 1  | 1,4-Dichlorobenzene, Benzyl alcohol, Dimethylphthalate, Pentachlorophenol, |
| 0237 | NT1003222316S.D | 23A0179-07   |          | 1  | Benzyl alcohol,  |
| 0315 | NT1003222317S.D | SEQ-CCVFULL  |          | 1  | NO MANUAL INTEGRATION  |
| 0352 | NT1003222318S.D | SLC0407-ICV2 |          | 1  | NO MANUAL INTEGRATION  |
| 0430 | NT1003222319S.D | SEQ-LCV200   |          | 1  | NO MANUAL INTEGRATION  |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b\SIM.b

| Time | Filename        | LabID        | ClientId | DF | Manually Integrated Compounds  |
|------|-----------------|--------------|----------|----|--|
| 0508 | NT1003222320S.D | SEQ-LCV100   |          | 1  | NO MANUAL INTEGRATION  |
| 0546 | NT1003222321S.D | SLC0407-IBL1 |          | 1  | Phenol,  |
| 0624 | NT1003222322S.D | BLC0442-MS2  |          | 1  | NO MANUAL INTEGRATION  |
| 0701 | NT1003222323S.D | BLC0442-MSD2 |          | 1  | NO MANUAL INTEGRATION  |
| 0739 | NT1003222324S.D | 23A0179-08   |          | 1  | 1,4-Dichlorobenzene, Benzyl alcohol, Dimethylphthalate, Pentachlorophenol,                                   |
| 0817 | NT1003222325S.D | 23A0179-09   |          | 1  | 1,4-Dichlorobenzene, Dimethylphthalate, Pentachlorophenol,   |
| 0855 | NT1003222326S.D | 23A0179-10   |          | 1  | Benzyl alcohol, Dimethylphthalate,   |
| 0933 | NT1003222327S.D | 23A0179-11   |          | 1  | 1,4-Dichlorobenzene, Dimethylphthalate,  |
| 1011 | NT1003222328S.D | 23A0179-12   |          | 1  | 1,4-Dichlorobenzene, Benzyl alcohol,   |
| 1049 | NT1003222329S.D | 23A0180-01   |          | 1  | 1,4-Dichlorobenzene, Benzyl alcohol, Benzoic acid, Dimethylphthalate,  |
| 1127 | NT1003222330S.D | 23A0180-02   |          | 1  | 1,4-Dichlorobenzene, Benzyl alcohol, Benzoic acid, Dimethylphthalate,  |
| 1205 | NT1003222331S.D | 23A0180-03   |          | 1  | 1,4-Dichlorobenzene, Benzyl alcohol, 2,4-Dimethylphenol, Benzoic acid, Dimethylphthalate, Pentachlorophenol, |
| 1244 | NT1003222332S.D | 23A0180-04   |          | 1  | 1,4-Dichlorobenzene, Benzyl alcohol, Benzoic acid, Dimethylphthalate, Pentachlorophenol,                     |
| 1322 | NT1003222333S.D | SEQ-CCVFULL  |          | 1  | NO MANUAL INTEGRATION  |
| 1400 | NT1003222334S.D | SLC0407-CCV1 |          | 1  | NO MANUAL INTEGRATION  |

Security Status Report

Date: 25-Mar-2023 16:17

|                 |             |          |
|-----------------|-------------|----------|
| NT1003222303S.D | Data Locked | yev, 25- |
| NT1003222304S.D | Data Locked | yev, 25- |
| NT1003222305S.D | Data Locked | yev, 25- |
| NT1003222306S.D | Data Locked | yev, 25- |
| NT1003222307S.D | Data Locked | yev, 25- |
| NT1003222308S.D | Data Locked | yev, 25- |
| NT1003222309S.D | Data Locked | yev, 25- |
| NT1003222310S.D | Data Locked | yev, 25- |
| NT1003222311S.D | Data Locked | yev, 25- |
| NT1003222312S.D | Data Locked | yev, 25- |
| NT1003222313S.D | Data Locked | yev, 25- |
| NT1003222314S.D | Data Locked | yev, 25- |
| NT1003222315S.D | Data Locked | yev, 25- |
| NT1003222316S.D | Data Locked | yev, 25- |
| NT1003222317S.D | Data Locked | yev, 25- |
| NT1003222318S.D | Data Locked | yev, 25- |
| NT1003222319S.D | Data Locked | yev, 25- |
| NT1003222320S.D | Data Locked | yev, 25- |
| NT1003222321S.D | Data Locked | yev, 25- |
| NT1003222322S.D | Data Locked | yev, 25- |
| NT1003222323S.D | Data Locked | yev, 25- |
| NT1003222324S.D | Data Locked | yev, 25- |
| NT1003222325S.D | Data Locked | yev, 25- |
| NT1003222326S.D | Data Locked | yev, 25- |
| NT1003222327S.D | Data Locked | yev, 25- |
| NT1003222328S.D | Data Locked | yev, 25- |
| NT1003222329S.D | Data Locked | yev, 25- |
| NT1003222330S.D | Data Locked | yev, 25- |
| NT1003222331S.D | Data Locked | yev, 25- |
| NT1003222332S.D | Data Locked | yev, 25- |
| NT1003222333S.D | Data Locked | yev, 25- |
| NT1003222334S.D | Data Locked | yev, 25- |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8270E-SIM**

|              |                                  |                   |                        |
|--------------|----------------------------------|-------------------|------------------------|
| Laboratory:  | <u>Analytical Resources, LLC</u> | SDG/WO:           | <u>23A0179</u>         |
| Client:      | <u>Anchor OEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Sequence:    | <u>SLC0238</u>                   | Instrument:       | <u>NT10</u>            |
| Calibration: | <u>GC00049</u>                   | Calibration Date: | <u>03/16/2023</u>      |

| Surrogate Compound          | Spike Level ug/mL | % Recovery                 | Recovery Limits | RT     | Calibration Mean RT      | RT Diff | RT Diff Limit | Q |
|-----------------------------|-------------------|----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| <b>SLC0238-SCV1 (Solid)</b> |                   | Lab File ID: NT10031511S.D |                 |        | Analyzed: 03/16/23 02:16 |         |               |   |
| 2-Fluorophenol              | 7.5000            |                            | 0 - 200         |        | 7.07175                  | -7.0718 | N/A           |   |
| p-Terphenyl-d14             | 5.0000            | 0.0308                     | 0 - 200         | 21.543 | 21.54237                 | 0.0006  | N/A           |   |
| <b>SLC0238-ICB1 (Solid)</b> |                   | Lab File ID: NT10031512S.D |                 |        | Analyzed: 03/16/23 02:54 |         |               |   |
| 2-Fluorophenol              | 7.5000            | 91.0                       | 27 - 120        | 7.072  | 7.07175                  | 0.0003  | N/A           |   |
| p-Terphenyl-d14             | 5.0000            | 88.4                       | 37 - 120        | 21.542 | 21.54237                 | -0.0004 | N/A           |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8270E-SIM**

|              |                                  |                   |                        |
|--------------|----------------------------------|-------------------|------------------------|
| Laboratory:  | <u>Analytical Resources, LLC</u> | SDG/WO:           | <u>23A0179</u>         |
| Client:      | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Sequence:    | <u>SLC0407</u>                   | Instrument:       | <u>NT10</u>            |
| Calibration: | <u>GC00049</u>                   | Calibration Date: | <u>03/16/2023</u>      |

| Surrogate Compound   | Spike Level ug/mL | % Recovery | Recovery Limits | RT     | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|-------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| <b>SLC0407-ICV1 (Solid)</b> Lab File ID: NT1003222303S.D Analyzed: 03/22/23 18:20  |                   |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 1.5000            | 102        | 80 - 120        | 6.856  | 7.07175             | -0.2158 | N/A           |   |
| p-Terphenyl-d14  | 1.0000            | 97.9       | 80 - 120        | 21.422 | 21.54237            | -0.1204 | N/A           |   |
| <b>BLC0442-BLK2 (Solid)</b> Lab File ID: NT1003222306S.D Analyzed: 03/22/23 20:16  |                   |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 750.00            | 70.8       | 27 - 120        | 6.864  | 7.07175             | -0.2078 | N/A           |   |
| p-Terphenyl-d14  | 500.00            | 84.1       | 37 - 120        | 21.422 | 21.54237            | -0.1204 | N/A           |   |
| <b>BLC0442-BS2 (Solid)</b> Lab File ID: NT1003222307S.D Analyzed: 03/22/23 20:54   |                   |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 750.00            | 78.0       | 27 - 120        | 6.864  | 7.07175             | -0.2078 | N/A           |   |
| p-Terphenyl-d14  | 500.00            | 88.9       | 37 - 120        | 21.422 | 21.54237            | -0.1204 | N/A           |   |
| <b>BLC0442-BSD2 (Solid)</b> Lab File ID: NT1003222308S.D Analyzed: 03/22/23 21:32  |                   |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 750.00            | 81.7       | 27 - 120        | 6.864  | 7.07175             | -0.2078 | N/A           |   |
| p-Terphenyl-d14  | 500.00            | 94.1       | 37 - 120        | 21.422 | 21.54237            | -0.1204 | N/A           |   |
| <b>BLC0442-SRM2 (Solid)</b> Lab File ID: NT1003222309S.D Analyzed: 03/22/23 22:10  |                   |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 7500.0            | 77.3       | 27 - 120        | 6.864  | 7.07175             | -0.2078 | N/A           |   |
| p-Terphenyl-d14  | 5000.0            | 92.0       | 37 - 120        | 21.422 | 21.54237            | -0.1204 | N/A           |   |
| <b>23A0179-01RE1 (Solid)</b> Lab File ID: NT1003222310S.D Analyzed: 03/22/23 22:49 |                   |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 745.82            | 71.1       | 27 - 120        | 6.864  | 7.07175             | -0.2078 | N/A           |   |
| p-Terphenyl-d14  | 497.21            | 97.7       | 37 - 120        | 21.43  | 21.54237            | -0.1124 | N/A           |   |
| <b>23A0179-02RE1 (Solid)</b> Lab File ID: NT1003222311S.D Analyzed: 03/22/23 23:27 |                   |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 716.03            | 74.4       | 27 - 120        | 6.864  | 7.07175             | -0.2078 | N/A           |   |
| p-Terphenyl-d14  | 477.35            | 107        | 37 - 120        | 21.43  | 21.54237            | -0.1124 | N/A           |   |
| <b>23A0179-03RE1 (Solid)</b> Lab File ID: NT1003222312S.D Analyzed: 03/23/23 00:05 |                   |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 720.48            | 76.6       | 27 - 120        | 6.871  | 7.07175             | -0.2007 | N/A           |   |
| p-Terphenyl-d14  | 480.32            | 101        | 37 - 120        | 21.43  | 21.54237            | -0.1124 | N/A           |   |
| <b>23A0179-04RE1 (Solid)</b> Lab File ID: NT1003222313S.D Analyzed: 03/23/23 00:43 |                   |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 746.71            | 74.4       | 27 - 120        | 6.864  | 7.07175             | -0.2078 | N/A           |   |
| p-Terphenyl-d14  | 497.81            | 106        | 37 - 120        | 21.438 | 21.54237            | -0.1044 | N/A           |   |





**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8270E-SIM**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLC0407  
Calibration: GC00049

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT10  
Calibration Date: 03/16/2023

| Surrogate Compound   | Spike Level ug/kg dry | % Recovery | Recovery Limits | RT     | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|-----------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| <b>23A0179-05RE1 (Solid)</b> Lab File ID: NT1003222314S.D Analyzed: 03/23/23 01:21 |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 737.42                | 78.5       | 27 - 120        | 6.864  | 7.07175             | -0.2078 | N/A           |   |
| p-Terphenyl-d14  | 491.61                | 103        | 37 - 120        | 21.438 | 21.54237            | -0.1044 | N/A           |   |
| <b>23A0179-06RE1 (Solid)</b> Lab File ID: NT1003222315S.D Analyzed: 03/23/23 01:59 |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 737.48                | 75.9       | 27 - 120        | 6.864  | 7.07175             | -0.2078 | N/A           |   |
| p-Terphenyl-d14  | 491.65                | 104        | 37 - 120        | 21.438 | 21.54237            | -0.1044 | N/A           |   |
| <b>23A0179-07RE1 (Solid)</b> Lab File ID: NT1003222316S.D Analyzed: 03/23/23 02:37 |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 749.81                | 80.5       | 27 - 120        | 6.864  | 7.07175             | -0.2078 | N/A           |   |
| p-Terphenyl-d14  | 499.87                | 111        | 37 - 120        | 21.438 | 21.54237            | -0.1044 | N/A           |   |
| <b>SLC0407-ICV2 (Solid)</b> Lab File ID: NT1003222318S.D Analyzed: 03/23/23 03:52  |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 1.5000                | 105        | 80 - 120        | 6.856  | 7.07175             | -0.2158 | N/A           |   |
| p-Terphenyl-d14  | 1.0000                | 102        | 80 - 120        | 21.438 | 21.54237            | -0.1044 | N/A           |   |
| <b>SLC0407-IBL1 (Solid)</b> Lab File ID: NT1003222321S.D Analyzed: 03/23/23 05:46  |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 7.5000                | 72.1       | 27 - 120        | 6.864  | 7.07175             | -0.2078 | N/A           |   |
| p-Terphenyl-d14  | 5.0000                | 82.7       | 37 - 120        | 21.43  | 21.54237            | -0.1124 | N/A           |   |
| <b>BLC0442-MS2 (Solid)</b> Lab File ID: NT1003222322S.D Analyzed: 03/23/23 06:24   |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 749.81                | 79.4       | 27 - 120        | 6.864  | 7.07175             | -0.2078 | N/A           |   |
| p-Terphenyl-d14  | 499.87                | 109        | 37 - 120        | 21.438 | 21.54237            | -0.1044 | N/A           |   |
| <b>BLC0442-MSD2 (Solid)</b> Lab File ID: NT1003222323S.D Analyzed: 03/23/23 07:01  |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 749.81                | 74.3       | 27 - 120        | 6.864  | 7.07175             | -0.2078 | N/A           |   |
| p-Terphenyl-d14  | 499.87                | 107        | 37 - 120        | 21.438 | 21.54237            | -0.1044 | N/A           |   |
| <b>23A0179-08RE1 (Solid)</b> Lab File ID: NT1003222324S.D Analyzed: 03/23/23 07:39 |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 721.12                | 74.8       | 27 - 120        | 6.864  | 7.07175             | -0.2078 | N/A           |   |
| p-Terphenyl-d14  | 480.75                | 102        | 37 - 120        | 21.438 | 21.54237            | -0.1044 | N/A           |   |
| <b>23A0179-09RE1 (Solid)</b> Lab File ID: NT1003222325S.D Analyzed: 03/23/23 08:17 |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 748.44                | 51.9       | 27 - 120        | 6.864  | 7.07175             | -0.2078 | N/A           |   |
| p-Terphenyl-d14  | 498.96                | 68.0       | 37 - 120        | 21.438 | 21.54237            | -0.1044 | N/A           |   |
| <b>23A0179-10RE1 (Solid)</b> Lab File ID: NT1003222326S.D Analyzed: 03/23/23 08:55 |                       |            |                 |        |                     |         |               |   |
| 2-Fluorophenol   | 732.90                | 74.9       | 27 - 120        | 6.864  | 7.07175             | -0.2078 | N/A           |   |
| p-Terphenyl-d14  | 488.60                | 96.9       | 37 - 120        | 21.438 | 21.54237            | -0.1044 | N/A           |   |





**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E-SIM**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLC0238

Instrument: NT10

Calibration: GC00049

| Internal Standard                         | Response | RT      | Reference Response         | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|---|----------|---------|----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Secondary Cal Check (SLC0238-SCV1)</b> |          | (Solid) | Lab File ID: NT10031511S.D |              |        | Analyzed: 03/16/23 02:16 |         |               |   |
| 1,4-Dichlorobenzene-d4                    | 166866   | 9.306   | 188081                     | 9.298        | 89     | 50 - 200                 | 0.008   | +/-0.50       |   |
| Naphthalene-d8                            | 612104   | 11.775  | 674549                     | 11.774       | 91     | 50 - 200                 | 0.001   | +/-0.50       |   |
| Acenaphthene-d10                          | 302524   | 15.388  | 328275                     | 15.387       | 92     | 50 - 200                 | 0.001   | +/-0.50       |   |
| Phenanthrene-d10                          | 553619   | 18.425  | 597140                     | 18.424       | 93     | 50 - 200                 | 0.001   | +/-0.50       |   |
| Chrysene-d12                              | 465428   | 23.455  | 466503                     | 23.454       | 100    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Perylene-d12                              | 532593   | 26.188  | 518203                     | 26.187       | 103    | 50 - 200                 | 0.001   | +/-0.50       |   |
| <b>Initial Cal Blank (SLC0238-ICB1)</b>   |          | (Solid) | Lab File ID: NT10031512S.D |              |        | Analyzed: 03/16/23 02:54 |         |               |   |
| 1,4-Dichlorobenzene-d4                    | 189475   | 9.306   | 188081                     | 9.298        | 101    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Naphthalene-d8                            | 676186   | 11.774  | 674549                     | 11.774       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                          | 328650   | 15.379  | 328275                     | 15.387       | 100    | 50 - 200                 | -0.008  | +/-0.50       |   |
| Phenanthrene-d10                          | 617605   | 18.424  | 597140                     | 18.424       | 103    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                              | 473513   | 23.454  | 466503                     | 23.454       | 102    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Perylene-d12                              | 534734   | 26.187  | 518203                     | 26.187       | 103    | 50 - 200                 | 0.000   | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E-SIM**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLC0407

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: NT10  
Calibration: GC00049

| Internal Standard                       | Response | RT      | Reference Response           | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|---|----------|---------|------------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Initial Cal Check (SLC0407-ICV1)</b> |          | (Solid) | Lab File ID: NT1003222303S.D |              |        | Analyzed: 03/22/23 18:20 |         |               |   |
| 1,4-Dichlorobenzene-d4                  | 135191   | 9.09    | 135191                       | 9.09         | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                          | 487226   | 11.569  | 487226                       | 11.569       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                        | 246588   | 15.198  | 246588                       | 15.198       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                        | 479352   | 18.25   | 479352                       | 18.25        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                            | 439791   | 23.343  | 439791                       | 23.343       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Perylene-d12                            | 505700   | 26.029  | 505700                       | 26.029       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>Blank (BLC0442-BLK2)</b>             |          | (Solid) | Lab File ID: NT1003222306S.D |              |        | Analyzed: 03/22/23 20:16 |         |               |   |
| 1,4-Dichlorobenzene-d4                  | 184770   | 9.089   | 135191                       | 9.09         | 137    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Naphthalene-d8                          | 645327   | 11.569  | 487226                       | 11.569       | 132    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                        | 320820   | 15.198  | 246588                       | 15.198       | 130    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                        | 609921   | 18.25   | 479352                       | 18.25        | 127    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                            | 528163   | 23.342  | 439791                       | 23.343       | 120    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Perylene-d12                            | 592176   | 26.021  | 505700                       | 26.029       | 117    | 50 - 200                 | -0.008  | +/-0.50       |   |
| <b>LCS (BLC0442-BS2)</b>                |          | (Solid) | Lab File ID: NT1003222307S.D |              |        | Analyzed: 03/22/23 20:54 |         |               |   |
| 1,4-Dichlorobenzene-d4                  | 174597   | 9.082   | 135191                       | 9.09         | 129    | 50 - 200                 | -0.008  | +/-0.50       |   |
| Naphthalene-d8                          | 639634   | 11.577  | 487226                       | 11.569       | 131    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Acenaphthene-d10                        | 322589   | 15.198  | 246588                       | 15.198       | 131    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                        | 633150   | 18.25   | 479352                       | 18.25        | 132    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                            | 572648   | 23.342  | 439791                       | 23.343       | 130    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Perylene-d12                            | 635593   | 26.029  | 505700                       | 26.029       | 126    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>LCS Dup (BLC0442-BSD2)</b>           |          | (Solid) | Lab File ID: NT1003222308S.D |              |        | Analyzed: 03/22/23 21:32 |         |               |   |
| 1,4-Dichlorobenzene-d4                  | 168404   | 9.09    | 135191                       | 9.09         | 125    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                          | 617172   | 11.577  | 487226                       | 11.569       | 127    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Acenaphthene-d10                        | 314236   | 15.198  | 246588                       | 15.198       | 127    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                        | 622069   | 18.25   | 479352                       | 18.25        | 130    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                            | 538810   | 23.343  | 439791                       | 23.343       | 123    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Perylene-d12                            | 608756   | 26.029  | 505700                       | 26.029       | 120    | 50 - 200                 | 0.000   | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E-SIM**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLC0407

Instrument: NT10

Calibration: GC00049

| Internal Standard                   | Response | RT      | Reference Response           | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|-------------------------------------|----------|---------|------------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Reference (BLC0442-SRM2)</b>     |          | (Solid) | Lab File ID: NT1003222309S.D |              |        | Analyzed: 03/22/23 22:10 |         |               |   |
| 1,4-Dichlorobenzene-d4              | 194361   | 9.082   | 135191                       | 9.09         | 144    | 50 - 200                 | -0.008  | +/-0.50       |   |
| Naphthalene-d8                      | 688684   | 11.569  | 487226                       | 11.569       | 141    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                    | 340192   | 15.198  | 246588                       | 15.198       | 138    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                    | 669550   | 18.25   | 479352                       | 18.25        | 140    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                        | 590805   | 23.343  | 439791                       | 23.343       | 134    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Perylene-d12                        | 678670   | 26.021  | 505700                       | 26.029       | 134    | 50 - 200                 | -0.008  | +/-0.50       |   |
| <b>LDW23-SS1277 (23A0179-01RE1)</b> |          | (Solid) | Lab File ID: NT1003222310S.D |              |        | Analyzed: 03/22/23 22:49 |         |               |   |
| 1,4-Dichlorobenzene-d4              | 182866   | 9.089   | 135191                       | 9.09         | 135    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Naphthalene-d8                      | 659488   | 11.577  | 487226                       | 11.569       | 135    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Acenaphthene-d10                    | 329944   | 15.198  | 246588                       | 15.198       | 134    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                    | 685590   | 18.25   | 479352                       | 18.25        | 143    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                        | 633755   | 23.35   | 439791                       | 23.343       | 144    | 50 - 200                 | 0.007   | +/-0.50       |   |
| Perylene-d12                        | 747858   | 26.044  | 505700                       | 26.029       | 148    | 50 - 200                 | 0.015   | +/-0.50       |   |
| <b>LDW23-SS1271 (23A0179-02RE1)</b> |          | (Solid) | Lab File ID: NT1003222311S.D |              |        | Analyzed: 03/22/23 23:27 |         |               |   |
| 1,4-Dichlorobenzene-d4              | 200759   | 9.09    | 135191                       | 9.09         | 149    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                      | 720656   | 11.577  | 487226                       | 11.569       | 148    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Acenaphthene-d10                    | 343861   | 15.198  | 246588                       | 15.198       | 139    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                    | 729888   | 18.258  | 479352                       | 18.25        | 152    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Chrysene-d12                        | 650043   | 23.35   | 439791                       | 23.343       | 148    | 50 - 200                 | 0.007   | +/-0.50       |   |
| Perylene-d12                        | 755158   | 26.045  | 505700                       | 26.029       | 149    | 50 - 200                 | 0.016   | +/-0.50       |   |
| <b>LDW23-SS1266 (23A0179-03RE1)</b> |          | (Solid) | Lab File ID: NT1003222312S.D |              |        | Analyzed: 03/23/23 00:05 |         |               |   |
| 1,4-Dichlorobenzene-d4              | 193127   | 9.089   | 135191                       | 9.09         | 143    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Naphthalene-d8                      | 694580   | 11.577  | 487226                       | 11.569       | 143    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Acenaphthene-d10                    | 337082   | 15.198  | 246588                       | 15.198       | 137    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                    | 714334   | 18.258  | 479352                       | 18.25        | 149    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Chrysene-d12                        | 642901   | 23.35   | 439791                       | 23.343       | 146    | 50 - 200                 | 0.007   | +/-0.50       |   |
| Perylene-d12                        | 755383   | 26.044  | 505700                       | 26.029       | 149    | 50 - 200                 | 0.015   | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E-SIM**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLC0407

Instrument: NT10

Calibration: GC00049

| Internal Standard                    | Response | RT      | Reference Response           | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|--------------------------------------|----------|---------|------------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>LDW23-SS1248 (23A0179-04RE1 )</b> |          | (Solid) | Lab File ID: NT1003222313S.D |              |        | Analyzed: 03/23/23 00:43 |         |               |   |
| 1,4-Dichlorobenzene-d4               | 182142   | 9.09    | 135191                       | 9.09         | 135    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                       | 673218   | 11.577  | 487226                       | 11.569       | 138    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Acenaphthene-d10                     | 326672   | 15.198  | 246588                       | 15.198       | 132    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                     | 703974   | 18.258  | 479352                       | 18.25        | 147    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Chrysene-d12                         | 629362   | 23.358  | 439791                       | 23.343       | 143    | 50 - 200                 | 0.015   | +/-0.50       |   |
| Perylene-d12                         | 740470   | 26.045  | 505700                       | 26.029       | 146    | 50 - 200                 | 0.016   | +/-0.50       |   |
| <b>LDW23-SS1239 (23A0179-05RE1 )</b> |          | (Solid) | Lab File ID: NT1003222314S.D |              |        | Analyzed: 03/23/23 01:21 |         |               |   |
| 1,4-Dichlorobenzene-d4               | 190341   | 9.09    | 135191                       | 9.09         | 141    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                       | 679303   | 11.577  | 487226                       | 11.569       | 139    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Acenaphthene-d10                     | 330974   | 15.198  | 246588                       | 15.198       | 134    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                     | 699078   | 18.258  | 479352                       | 18.25        | 146    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Chrysene-d12                         | 628385   | 23.358  | 439791                       | 23.343       | 143    | 50 - 200                 | 0.015   | +/-0.50       |   |
| Perylene-d12                         | 737138   | 26.045  | 505700                       | 26.029       | 146    | 50 - 200                 | 0.016   | +/-0.50       |   |
| <b>LDW23-SS1213 (23A0179-06RE1 )</b> |          | (Solid) | Lab File ID: NT1003222315S.D |              |        | Analyzed: 03/23/23 01:59 |         |               |   |
| 1,4-Dichlorobenzene-d4               | 186026   | 9.09    | 135191                       | 9.09         | 138    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                       | 675158   | 11.577  | 487226                       | 11.569       | 139    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Acenaphthene-d10                     | 332455   | 15.206  | 246588                       | 15.198       | 135    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Phenanthrene-d10                     | 709699   | 18.258  | 479352                       | 18.25        | 148    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Chrysene-d12                         | 645854   | 23.358  | 439791                       | 23.343       | 147    | 50 - 200                 | 0.015   | +/-0.50       |   |
| Perylene-d12                         | 745650   | 26.052  | 505700                       | 26.029       | 147    | 50 - 200                 | 0.023   | +/-0.50       |   |
| <b>LDW23-SS1200 (23A0179-07RE1 )</b> |          | (Solid) | Lab File ID: NT1003222316S.D |              |        | Analyzed: 03/23/23 02:37 |         |               |   |
| 1,4-Dichlorobenzene-d4               | 179128   | 9.09    | 135191                       | 9.09         | 132    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                       | 636177   | 11.577  | 487226                       | 11.569       | 131    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Acenaphthene-d10                     | 313559   | 15.206  | 246588                       | 15.198       | 127    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Phenanthrene-d10                     | 658568   | 18.258  | 479352                       | 18.25        | 137    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Chrysene-d12                         | 582665   | 23.358  | 439791                       | 23.343       | 132    | 50 - 200                 | 0.015   | +/-0.50       |   |
| Perylene-d12                         | 696672   | 26.045  | 505700                       | 26.029       | 138    | 50 - 200                 | 0.016   | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E-SIM**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLC0407

Instrument: NT10

Calibration: GC00049

| Internal Standard                       | Response | RT      | Reference Response           | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|---|----------|---------|------------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Initial Cal Check (SLC0407-ICV2)</b> |          | (Solid) | Lab File ID: NT1003222318S.D |              |        | Analyzed: 03/23/23 03:52 |         |               |   |
| 1,4-Dichlorobenzene-d4                  | 140507   | 9.09    | 140507                       | 9.09         | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                          | 499190   | 11.577  | 499190                       | 11.577       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                        | 250303   | 15.206  | 250303                       | 15.206       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                        | 496896   | 18.258  | 496896                       | 18.258       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                            | 465837   | 23.35   | 465837                       | 23.35        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Perylene-d12                            | 551078   | 26.037  | 551078                       | 26.037       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>Instrument Blank (SLC0407-IBL1)</b>  |          | (Solid) | Lab File ID: NT1003222321S.D |              |        | Analyzed: 03/23/23 05:46 |         |               |   |
| 1,4-Dichlorobenzene-d4                  | 178871   | 9.082   | 140507                       | 9.09         | 127    | 50 - 200                 | -0.008  | +/-0.50       |   |
| Naphthalene-d8                          | 638364   | 11.577  | 499190                       | 11.577       | 128    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                        | 315474   | 15.198  | 250303                       | 15.206       | 126    | 50 - 200                 | -0.008  | +/-0.50       |   |
| Phenanthrene-d10                        | 604250   | 18.258  | 496896                       | 18.258       | 122    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                            | 549439   | 23.35   | 465837                       | 23.35        | 118    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Perylene-d12                            | 633519   | 26.044  | 551078                       | 26.037       | 115    | 50 - 200                 | 0.007   | +/-0.50       |   |
| <b>Matrix Spike (BLC0442-MS2)</b>       |          | (Solid) | Lab File ID: NT1003222322S.D |              |        | Analyzed: 03/23/23 06:24 |         |               |   |
| 1,4-Dichlorobenzene-d4                  | 157202   | 9.09    | 140507                       | 9.09         | 112    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                          | 573631   | 11.577  | 499190                       | 11.577       | 115    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                        | 295406   | 15.206  | 250303                       | 15.206       | 118    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                        | 615665   | 18.258  | 496896                       | 18.258       | 124    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                            | 557974   | 23.358  | 465837                       | 23.35        | 120    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                            | 678005   | 26.052  | 551078                       | 26.037       | 123    | 50 - 200                 | 0.015   | +/-0.50       |   |
| <b>Matrix Spike Dup (BLC0442-MSD2)</b>  |          | (Solid) | Lab File ID: NT1003222323S.D |              |        | Analyzed: 03/23/23 07:01 |         |               |   |
| 1,4-Dichlorobenzene-d4                  | 161357   | 9.089   | 140507                       | 9.09         | 115    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Naphthalene-d8                          | 580639   | 11.577  | 499190                       | 11.577       | 116    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                        | 300651   | 15.206  | 250303                       | 15.206       | 120    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                        | 630227   | 18.258  | 496896                       | 18.258       | 127    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                            | 553948   | 23.358  | 465837                       | 23.35        | 119    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                            | 656455   | 26.052  | 551078                       | 26.037       | 119    | 50 - 200                 | 0.015   | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E-SIM**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLC0407

Instrument: NT10

Calibration: GC00049

| Internal Standard                    | Response | RT      | Reference Response           | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|--------------------------------------|----------|---------|------------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>LDW23-SS1178 (23A0179-08RE1 )</b> |          | (Solid) | Lab File ID: NT1003222324S.D |              |        | Analyzed: 03/23/23 07:39 |         |               |   |
| 1,4-Dichlorobenzene-d4               | 165148   | 9.09    | 140507                       | 9.09         | 118    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                       | 596405   | 11.577  | 499190                       | 11.577       | 119    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                     | 294954   | 15.206  | 250303                       | 15.206       | 118    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                     | 629413   | 18.258  | 496896                       | 18.258       | 127    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                         | 584289   | 23.358  | 465837                       | 23.35        | 125    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                         | 668897   | 26.052  | 551078                       | 26.037       | 121    | 50 - 200                 | 0.015   | +/-0.50       |   |
| <b>LDW23-SS1171 (23A0179-09RE1 )</b> |          | (Solid) | Lab File ID: NT1003222325S.D |              |        | Analyzed: 03/23/23 08:17 |         |               |   |
| 1,4-Dichlorobenzene-d4               | 165680   | 9.089   | 140507                       | 9.09         | 118    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Naphthalene-d8                       | 598211   | 11.577  | 499190                       | 11.577       | 120    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                     | 302560   | 15.206  | 250303                       | 15.206       | 121    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                     | 642018   | 18.258  | 496896                       | 18.258       | 129    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                         | 603401   | 23.358  | 465837                       | 23.35        | 130    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                         | 670397   | 26.052  | 551078                       | 26.037       | 122    | 50 - 200                 | 0.015   | +/-0.50       |   |
| <b>LDW23-SS1112 (23A0179-10RE1 )</b> |          | (Solid) | Lab File ID: NT1003222326S.D |              |        | Analyzed: 03/23/23 08:55 |         |               |   |
| 1,4-Dichlorobenzene-d4               | 164795   | 9.09    | 140507                       | 9.09         | 117    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                       | 598663   | 11.577  | 499190                       | 11.577       | 120    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                     | 294535   | 15.198  | 250303                       | 15.206       | 118    | 50 - 200                 | -0.008  | +/-0.50       |   |
| Phenanthrene-d10                     | 639886   | 18.258  | 496896                       | 18.258       | 129    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                         | 606398   | 23.358  | 465837                       | 23.35        | 130    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Perylene-d12                         | 664262   | 26.06   | 551078                       | 26.037       | 121    | 50 - 200                 | 0.023   | +/-0.50       |   |
| <b>LDW23-SS1039 (23A0179-11RE1 )</b> |          | (Solid) | Lab File ID: NT1003222327S.D |              |        | Analyzed: 03/23/23 09:33 |         |               |   |
| 1,4-Dichlorobenzene-d4               | 175820   | 9.09    | 140507                       | 9.09         | 125    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                       | 624863   | 11.577  | 499190                       | 11.577       | 125    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Acenaphthene-d10                     | 307249   | 15.206  | 250303                       | 15.206       | 123    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                     | 652187   | 18.258  | 496896                       | 18.258       | 131    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Chrysene-d12                         | 603648   | 23.366  | 465837                       | 23.35        | 130    | 50 - 200                 | 0.016   | +/-0.50       |   |
| Perylene-d12                         | 663172   | 26.06   | 551078                       | 26.037       | 120    | 50 - 200                 | 0.023   | +/-0.50       |   |





**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8270E-SIM**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLC0407

Instrument: NT10

Calibration: GC00049

| Internal Standard                        | Response | RT      | Reference Response           | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|--|----------|---------|------------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>LDW23-SS1007 (23A0179-12RE1 )</b>     |          | (Solid) | Lab File ID: NT1003222328S.D |              |        | Analyzed: 03/23/23 10:11 |         |               |   |
| 1,4-Dichlorobenzene-d4                   | 177351   | 9.09    | 140507                       | 9.09         | 126    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Naphthalene-d8                           | 642224   | 11.585  | 499190                       | 11.577       | 129    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Acenaphthene-d10                         | 313530   | 15.206  | 250303                       | 15.206       | 125    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Phenanthrene-d10                         | 665755   | 18.266  | 496896                       | 18.258       | 134    | 50 - 200                 | 0.008   | +/-0.50       |   |
| Chrysene-d12                             | 623237   | 23.366  | 465837                       | 23.35        | 134    | 50 - 200                 | 0.016   | +/-0.50       |   |
| Perylene-d12                             | 675873   | 26.068  | 551078                       | 26.037       | 123    | 50 - 200                 | 0.031   | +/-0.50       |   |
| <b>Calibration Check (SLC0407-CCV1 )</b> |          | (Solid) | Lab File ID: NT1003222334S.D |              |        | Analyzed: 03/23/23 14:00 |         |               |   |
| 1,4-Dichlorobenzene-d4                   | 116179   | 9.084   | 140507                       | 9.09         | 83     | 50 - 200                 | -0.006  | +/-0.50       |   |
| Naphthalene-d8                           | 430639   | 11.572  | 499190                       | 11.577       | 86     | 50 - 200                 | -0.005  | +/-0.50       |   |
| Acenaphthene-d10                         | 225476   | 15.201  | 250303                       | 15.206       | 90     | 50 - 200                 | -0.005  | +/-0.50       |   |
| Phenanthrene-d10                         | 447813   | 18.253  | 496896                       | 18.258       | 90     | 50 - 200                 | -0.005  | +/-0.50       |   |
| Chrysene-d12                             | 423530   | 23.345  | 465837                       | 23.35        | 91     | 50 - 200                 | -0.005  | +/-0.50       |   |
| Perylene-d12                             | 462101   | 26.024  | 551078                       | 26.037       | 84     | 50 - 200                 | -0.013  | +/-0.50       |   |



## HOLDING TIME SUMMARY

**Analysis: EPA 8270E-SIM**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

| Sample Name                      | Date Collected    | Date Received     | Date Prepared     | Days to Prep | Max Days to Prep | Date Analyzed     | Days to Analysis | Max Days to Analysis | Q |
|----------------------------------|-------------------|-------------------|-------------------|--------------|------------------|-------------------|------------------|----------------------|---|
| LDW23-SS1277<br>23A0179-01RE1    | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 03/17/23<br>14:20 | 66           | 365              | 03/22/23<br>22:49 | 5                | 40                   |   |
| LDW23-SS1271<br>23A0179-02RE1    | 01/10/23<br>08:43 | 01/10/23<br>17:10 | 03/17/23<br>14:20 | 66           | 365              | 03/22/23<br>23:27 | 5                | 40                   |   |
| LDW23-SS1266<br>23A0179-03RE1    | 01/10/23<br>09:04 | 01/10/23<br>17:10 | 03/17/23<br>14:20 | 66           | 365              | 03/23/23<br>00:05 | 5                | 40                   |   |
| LDW23-SS1248<br>23A0179-04RE1    | 01/10/23<br>09:20 | 01/10/23<br>17:10 | 03/17/23<br>14:20 | 66           | 365              | 03/23/23<br>00:43 | 5                | 40                   |   |
| LDW23-SS1239<br>23A0179-05RE1    | 01/10/23<br>09:35 | 01/10/23<br>17:10 | 03/17/23<br>14:20 | 66           | 365              | 03/23/23<br>01:21 | 5                | 40                   |   |
| LDW23-SS1213<br>23A0179-06RE1    | 01/10/23<br>09:54 | 01/10/23<br>17:10 | 03/17/23<br>14:20 | 66           | 365              | 03/23/23<br>01:59 | 5                | 40                   |   |
| LDW23-SS1200<br>23A0179-07RE1    | 01/10/23<br>10:10 | 01/10/23<br>17:10 | 03/17/23<br>14:20 | 66           | 365              | 03/23/23<br>02:37 | 6                | 40                   |   |
| LDW23-SS1178<br>23A0179-08RE1    | 01/10/23<br>10:56 | 01/10/23<br>17:10 | 03/17/23<br>14:20 | 66           | 365              | 03/23/23<br>07:39 | 6                | 40                   |   |
| LDW23-SS1171<br>23A0179-09RE1    | 01/10/23<br>11:08 | 01/10/23<br>17:10 | 03/17/23<br>14:20 | 66           | 365              | 03/23/23<br>08:17 | 6                | 40                   |   |
| LDW23-SS1112<br>23A0179-10RE1    | 01/10/23<br>11:28 | 01/10/23<br>17:10 | 03/17/23<br>14:20 | 66           | 365              | 03/23/23<br>08:55 | 6                | 40                   |   |
| LDW23-SS1039<br>23A0179-11RE1    | 01/10/23<br>11:56 | 01/10/23<br>17:10 | 03/17/23<br>14:20 | 66           | 365              | 03/23/23<br>09:33 | 6                | 40                   |   |
| LDW23-SS1007<br>23A0179-12RE1    | 01/10/23<br>12:48 | 01/10/23<br>17:10 | 03/17/23<br>14:20 | 66           | 365              | 03/23/23<br>10:11 | 6                | 40                   |   |
| Matrix Spike<br>BLC0442-MS2      | 01/10/23<br>10:10 | 01/10/23<br>17:10 | 03/17/23<br>11:16 | 66           | 365              | 03/23/23<br>06:24 | 6                | 40                   |   |
| Matrix Spike Dup<br>BLC0442-MSD2 | 01/10/23<br>10:10 | 01/10/23<br>17:10 | 03/17/23<br>11:16 | 66           | 365              | 03/23/23<br>07:01 | 6                | 40                   |   |

\* Indicates hold time exceedance.



**METHOD DETECTION  
AND REPORTING LIMITS**

**EPA 8270E-SIM**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Instrument: NT10

| <b>Analyte</b>         | <b>MDL</b> | <b>RL</b> | <b>Units</b> |
|------------------------|------------|-----------|--------------|
| 1,4-Dichlorobenzene    | 0.6        | 5.0       | ug/kg        |
| 1,2-Dichlorobenzene    | 0.7        | 5.0       | ug/kg        |
| Benzyl Alcohol         | 2.5        | 20.0      | ug/kg        |
| Benzoic acid           | 13.4       | 100       | ug/kg        |
| 2,4-Dimethylphenol     | 2.2        | 20.0      | ug/kg        |
| 1,2,4-Trichlorobenzene | 2.7        | 5.0       | ug/kg        |
| N-Nitrosodiphenylamine | 1.3        | 5.0       | ug/kg        |
| Pentachlorophenol      | 2.1        | 20.0      | ug/kg        |



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: NA

Chemical: Tributyl Phosphate

Manufacturer: Chemservice

Product #: 0-916

Lot #: 59-57A

Purity: 99%

Analyst: VFB

Element: B000954



Description: SVOC 4,4 DDT  
 Standard Type: Calibration Stan  
 Solvent: N/A  
 Final Volume (mls): 1  
 Vials: 1  
 Vendor: Chem Service  
 Vendor Catalog #:

Expires: 31-Dec-29  
 Prepared: 23-Sep-13  
 Prepared By: Jianqing Zhou  
 Department: Organics  
 Last Edit: 23-Sep-13 11:46 by JZ  
 Lot #: 198-128A

**Comments**

Neat, Purity @ 99.2%. (ARI#: 790A)

| Analyte  | CAS Number | Concentration | Units |
|----------|------------|---------------|-------|
| 4,4'-DDT | 50-29-3    | 1000000       | ug/mL |



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: \_\_\_\_\_

Chemical: 4,4' DDT

Manufacturer: Chem Service

Product #: \_\_\_\_\_

Lot #: 198-128A

Purity: 99.2%

Analyst: AS



Description: SVOC alpha-Terpineol Expires: 31-Dec-29  
Standard Type: Calibration Stan Prepared: 31-Dec-12  
Solvent: N/A Prepared By: Jianqing Zhou  
Final Volume (mls): 1 Department: Organics  
Vials: 1 Last Edit: 23-Sep-13 12:13 by JZ  
Vendor: ACROS Organics Lot #: AD16481201  
Vendor Catalog #:

**Comments**

Neat, Purity @ 98%. (ARI#: I1582A)

| Analyte         | CAS Number | Concentration | Units |
|-----------------|------------|---------------|-------|
| alpha-Terpineol | 98-55-5    | 1000000       | ug/mL |

Reviewed By

Date



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: \_\_\_\_\_

Chemical: alpha-Terpineol

Manufacturer: Acros Organics

Product #: \_\_\_\_\_

Lot #: AD6481201

Purity: 98%

Analyst: 12





Description: SVOA Dibutyl Phenyl phosphate Expires: 31-Dec-29  
Standard Type: Calibration Stan Prepared: 31-Dec-12  
Solvent: NA Prepared By: Jianqing Zhou  
Final Volume (mls): 1 Department: Organics  
Vials: 1 Last Edit: 23-Sep-13 15:45 by JZ  
Vendor: Monsanto Lot #: N/A  
Vendor Catalog #:

**Comments**

Neat, Purity @ 98.9%.

| Analyte                  | CAS Number | Concentration | Units |
|--------------------------|------------|---------------|-------|
| Dibutyl Phenyl Phosphate | 2528-36-1  | 1000000       | ug/mL |

Reviewed By

Date



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: \_\_\_\_\_

Chemical: Dibutyl Phenyl Phosphate

Manufacturer: Monsanto

Product #: N/A

Lot #: N/A

Purity: 98.9%

Analyst: AD



Description: SVOC Triphenyl Phosphate Expires: 31-Dec-29  
Standard Type: Calibration Stan Prepared: 31-Dec-12  
Solvent: NA Prepared By: Jianqing Zhou  
Final Volume (mls): 1 Department: Organics  
Vials: 1 Last Edit: 23-Sep-13 15:59 by JZ  
Vendor: Aldrich Lot #: 04902CM  
Vendor Catalog #:

**Comments**

Neat, Purity @ 99%.

| Analyte             | CAS Number | Concentration | Units |
|---------------------|------------|---------------|-------|
| Triphenyl Phosphate | 115-86-6   | 1000000       | ug/mL |

Reviewed By

Date



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: \_\_\_\_\_

Chemical: Triphenyl phosphate

Manufacturer: Aldrich

Product #: \_\_\_\_\_

Lot #: 04902CM

Purity: 99%

Analyst: [Signature]



|                     |                               |              |                       |
|---------------------|-------------------------------|--------------|-----------------------|
| Description:        | SVOC Butylated Hydroxytoluene | Expires:     | 31-Dec-29             |
| Standard Type:      | Calibration Stan              | Prepared:    | 31-Dec-12             |
| Solvent:            | NA                            | Prepared By: | Jianqing Zhou         |
| Final Volume (mls): | 1                             | Department:  | Organics              |
| Vials:              | 1                             | Last Edit:   | 23-Sep-13 16:18 by JZ |
| Vendor:             | SIGMA                         | Lot #:       | 39F-0197              |
| Vendor Catalog #:   |                               |              |                       |

**Comments**

neat,Purity @ 99.9%.

| Analyte                  | CAS Number | Concentration | Units |
|--------------------------|------------|---------------|-------|
| Butylated Hydroxytoluene | 128-37-0   | 1000000       | ug/mL |

Reviewed By

Date



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: \_\_\_\_\_

Chemical: Bulkyated Hydroxytoluene

Manufacturer: Sigma

Product #: \_\_\_\_\_

Lot #: 39F-0197

Purity: 99.8%

Analyst: AB



|                     |                               |              |                       |
|---------------------|-------------------------------|--------------|-----------------------|
| Description:        | SVOC Butyl Diphenyl Phosphate | Expires:     | 31-Dec-29             |
| Standard Type:      | Calibration Stan              | Prepared:    | 31-Dec-12             |
| Solvent:            | NA                            | Prepared By: | Jianqing Zhou         |
| Final Volume (mls): | 1                             | Department:  | Organics              |
| Vials:              | 1                             | Last Edit:   | 23-Sep-13 17:02 by JZ |
| Vendor:             | Monsanto                      | Lot #:       | N/A                   |
| Vendor Catalog #:   |                               |              |                       |

**Comments**

Neat, Purity @ 98%.

| Analyte                  | CAS Number | Concentration | Units |
|--------------------------|------------|---------------|-------|
| Butyl Diphenyl Phosphate | 2752-95-6  | 1000000       | ug/mL |

Reviewed By

Date



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: \_\_\_\_\_

Chemical: Butyl Diphenyl Phosphate

Manufacturer: Monsanto

Product #: NA

Lot #: NA

Purity: 99%

Analyst: R.





Description: SVOC 2,4-Dinitrophenol  
 Standard Type: Calibration Stan  
 Solvent: NA  
 Final Volume (mls): 1  
 Vials: 1  
 Vendor: SIGMA  
 Vendor Catalog #:

Expires: 31-Dec-29  
 Prepared: 25-Sep-13  
 Prepared By: Jianqing Zhou  
 Department: Organics  
 Last Edit: 25-Sep-13 13:45 by JZ  
 Lot #: 65H5021

**Comments**

Neat, Purity @ 90-95%. (ARI#: 0466)

| Analyte           | CAS Number | Concentration | Units |
|-------------------|------------|---------------|-------|
| 2,4-Dinitrophenol | 51-28-5    | 1000000       | ug/mL |

**B001941**

SVOA 2,4-Dinitrophenol  
 Expires 12/31/2029  
*Prepared By Jianqing Zhou 9/25/2013*



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: \_\_\_\_\_

Chemical: 2,4-Dinitrophenol

Manufacturer: Sigma

Product #: \_\_\_\_\_

Lot #: 644 5021

Purity: 90.29%

Analyst: AB



|                     |                   |              |                       |
|---------------------|-------------------|--------------|-----------------------|
| Description:        | SVOC Benzoic Acid | Expires:     | 31-Dec-29             |
| Standard Type:      | Calibration Stan  | Prepared:    | 31-Dec-12             |
| Solvent:            | NA                | Prepared By: | Jianqing Zhou         |
| Final Volume (mls): | 1                 | Department:  | Organics              |
| Vials:              | 1                 | Last Edit:   | 25-Sep-13 15:23 by JZ |
| Vendor:             | ACROS Organics    | Lot #:       | A0224339              |
| Vendor Catalog #:   |                   |              |                       |

**Comments**

Neat, Purity @ 98%.

| Analyte      | CAS Number | Concentration | Units |
|--------------|------------|---------------|-------|
| Benzoic acid | 65-85-0    | 1000000       | ug/mL |

**B001945**

SVOC Benzoic Acid  
Expires 12/31/2029

*Prepared By Jianqing Zhou 12/31/2012*

Reviewed By

Date



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: \_\_\_\_\_

Chemical: Benzoic Acid

Manufacturer: ACROS Organics

Product #: \_\_\_\_\_

Lot #: A0224339

Purity: 98%

Analyst: AB



|                     |                                 |              |                       |
|---------------------|---------------------------------|--------------|-----------------------|
| Description:        | SVOC 4,6-Dinitro-2-Methylphenol | Expires:     | 31-Dec-29             |
| Standard Type:      | Calibration Stan                | Prepared:    | 25-Sep-13             |
| Solvent:            | NA                              | Prepared By: | Jianqing Zhou         |
| Final Volume (mls): | 1                               | Department:  | Organics              |
| Vials:              | 1                               | Last Edit:   | 25-Sep-13 15:37 by JZ |
| Vendor:             | Chem Service                    | Lot #:       | 179-31A               |
| Vendor Catalog #:   |                                 |              |                       |

**Comments**

Neat, Purity @ 99%. (ARI#: 009A)

| Analyte                    | CAS Number | Concentration | Units |
|----------------------------|------------|---------------|-------|
| 4,6-Dinitro-2-methylphenol | 534-52-1   | 1000000       | ug/mL |

**B001948**

SVOA 4,6-Dinitro-2-Methylphenol  
Expires 12/31/2029  
*Prepared By Jianqing Zhou 9/25/2013*



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: \_\_\_\_\_

Chemical: 4,6-Dinitro-2-Methylphenol

Manufacturer: Chem Service

Product #: \_\_\_\_\_

Lot #: 179-31A

Purity: 99%

Analyst: RB



|                     |                          |              |                       |
|---------------------|--------------------------|--------------|-----------------------|
| Description:        | SVOA 1-Methylnaphthalene | Expires:     | 02-Apr-14             |
| Standard Type:      | Analyte Spike            | Prepared:    | 13-Dec-12             |
| Solvent:            | NA                       | Prepared By: | Jianqing Zhou         |
| Final Volume (mls): | 1                        | Department:  | Organics              |
| Vials:              | 1                        | Last Edit:   | 04-Oct-13 18:32 by JZ |
| Vendor:             | Chem Service             | Lot #:       | 62-5B                 |
| Vendor Catalog #:   |                          |              |                       |

**Comments**

Neat, Purity @ 99%

| Analyte             | CAS Number | Concentration | Units |
|---------------------|------------|---------------|-------|
| 1-Methylnaphthalene | 90-12-0    | 1000000       | ug/mL |



**B002054**  
SVOA 1-Methylnaphthalene  
Solvent / Lot: NA  
Prep: 12/13/2012 by JZ  
Exp: 12/31/2029  
Location:



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: \_\_\_\_\_

Chemical: 1-Methyl naphthalene

Manufacturer: Chem Service

Product #: 0787

Lot #: 62-53

Purity: 99%

Analyst: AB





Description: SVOA Benzidine Expires: 31-Dec-29  
Standard Type: Analyte Spike Prepared: 15-Oct-13  
Solvent: N/A Prepared By: Jianqing Zhou  
Final Volume (mls): 1 Department: Organics  
Vials: 1 Last Edit: 15-Oct-13 12:07 by JZ  
Vendor: SIGMA Lot #: 18C0024  
Vendor Catalog #:

**Comments**

Purity @ 95%. ARI#: 0467.

| Analyte   | CAS Number | Concentration | Units |
|-----------|------------|---------------|-------|
| Benzidine | 92-87-5    | 1000000       | ug/mL |



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: \_\_\_\_\_

Chemical: Benzidine

Manufacturer: Sigma

Product #: B-3503

Lot #: 18C0024

Purity: 95%

Analyst: B.

# Certificate of Analysis

Product Name: 1,2,4,5-Tetrachlorobenzene  
Product Description: 98%  
Product Brand: Sigma-Aldrich  
Product Number: 131857  
Molecular Weight: 215.89  
CAS Number: 95-94-3

## TEST

APPEARANCE  
INFRARED SPECTRUM

&nbsp;

&nbsp;

&nbsp;

GAS LIQUID

QUALITY CONTROL

## SPECIFICATION

WHITE POWDER, CHIPS OR CRYSTALS  
CONFORMS TO STRUCTURE.

97.5% (MINIMUM)

## LOT 19309JR RESULTS

WHITE CHIPS  
CONFORMS TO STRUCTURE AND  
STANDARD AS  
ILLUSTRATED ON PAGE 1011C OF EDITION  
I,  
VOLUME 1 OF "THE ALDRICH LIBRARY OF  
FT-IR  
SPECTRA".  
99.9 %  
JULY 1997



Barbara Rajzer, Supervisor  
Quality Control  
Milwaukee, Wisconsin USA

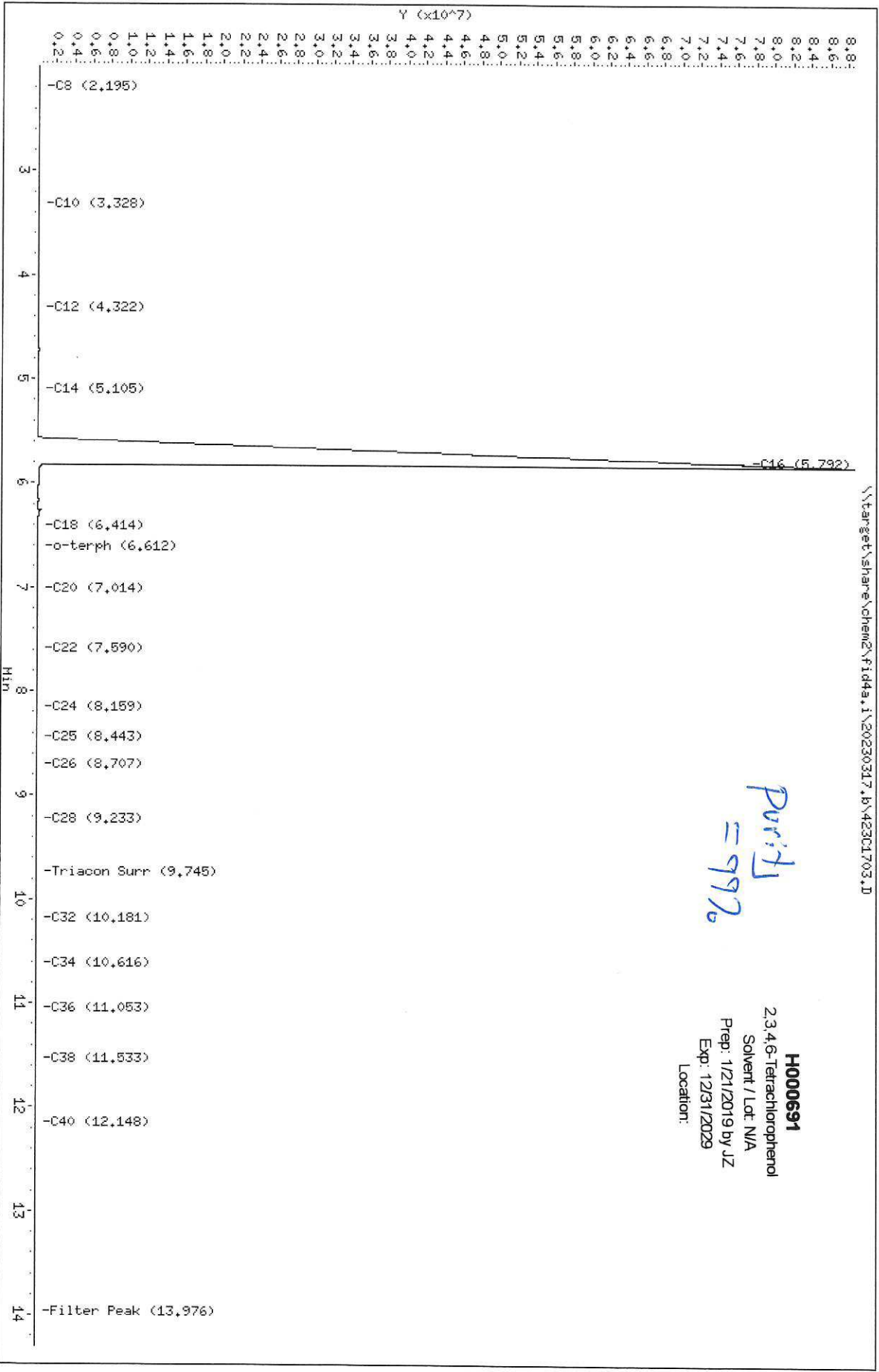
**F009172**

SVOC 1,2,4,5-Tetrachlorobenzene  
Expires 12/31/2079  
*Prepared By Joshua Rains 10/6/2017*

Data File: \\target\share\chem2\fid4a,1\20230317,1\42301703.D  
Date: 17-MAR-2023 10:46  
Client ID:  
Sample Info: K007226

Column phase: RTX-1

Instrument: fid4a.i  
Operator: AA  
Column diameter: 0.25



Purity  
= 99%

**H000691**  
2,3,4,6-Tetrachlorophenol  
Solvent / Lot: N/A  
Prep: 1/21/2019 by JZ  
Exp: 12/31/2029  
Location:

H000691

ARI Labs, Inc.

Data file : \\target\share\chem2\fid4a.i\20230317.b\423C1703.D  
 Lab Smp Id: K007226  
 Inj Date : 17-MAR-2023 10:46  
 Operator : AA Inst ID: fid4a.i  
 Smp Info : K007226  
 Misc Info :  
 Comment :  
 Method : \\target\share\chem2\fid4a.i\20230317.b\FID4TPH.m  
 Meth Date : 17-Mar-2023 16:58 alfonso Quant Type: AREA%  
 Cal Date : 18-AUG-2022 11:51 Cal File: 422H1803.D  
 Als bottle: 10  
 Dil Factor: 1.00000  
 Integrator: Falcon+ Compound Sublist: tph.sub  
 Target Version: 4.14  
 Processing Host: ALFONSO-201901

Concentration Formula: Amt \* DF \* CpndVariable  
 Cpnd Variable Local Compound Variable

| RT    | AREA  | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|-----------|
| 2.043 | 81395 | 55677  | 0.684   | 0.012  | 1 Toluene |
| 2.074 | 68503 | 39991  | 0.584   | 0.010  |           |
| 2.104 | 85451 | 37158  | 0.435   | 0.012  |           |
| 2.146 | 59381 | 25207  | 0.424   | 0.008  |           |
| 2.181 | 11414 | 22862  | 2.003   | 0.001  |           |
| 2.195 | 34939 | 23199  | 0.664   | 0.005  | 2 C8      |
| 2.218 | 8679  | 21808  | 2.513   | 0.001  |           |
| 2.224 | 21070 | 21832  | 1.036   | 0.003  |           |
| 2.243 | 45086 | 20191  | 0.448   | 0.006  |           |
| 2.286 | 3130  | 15677  | 5.009   | 0.000  |           |
| 2.291 | 12615 | 15880  | 1.259   | 0.001  |           |
| 2.313 | 20979 | 15888  | 0.757   | 0.003  |           |
| 2.333 | 7621  | 15373  | 2.017   | 0.001  |           |
| 2.348 | 31874 | 17112  | 0.537   | 0.004  |           |
| 2.373 | 4619  | 13267  | 2.872   | 0.000  |           |
| 2.380 | 12003 | 13446  | 1.120   | 0.001  |           |
| 2.393 | 10327 | 13347  | 1.292   | 0.001  |           |
| 2.408 | 9963  | 12697  | 1.274   | 0.001  |           |
| 2.446 | 24366 | 11882  | 0.488   | 0.003  |           |
| 2.498 | 24898 | 10214  | 0.410   | 0.003  |           |
| 2.557 | 1592  | 6395   | 4.017   | 0.000  |           |
| 2.570 | 4427  | 6384   | 1.442   | 0.000  |           |
| 2.583 | 4275  | 6215   | 1.454   | 0.000  |           |
| 2.595 | 1208  | 6068   | 5.024   | 0.000  |           |
| 2.602 | 3076  | 6230   | 2.025   | 0.000  |           |
| 2.607 | 1560  | 6270   | 4.019   | 0.000  |           |
| 2.631 | 17195 | 8933   | 0.520   | 0.002  |           |
| 2.654 | 17386 | 7637   | 0.439   | 0.002  |           |
| 2.703 | 4531  | 5468   | 1.207   | 0.000  |           |
| 2.717 | 9156  | 5741   | 0.627   | 0.001  |           |
| 2.740 | 3955  | 5045   | 1.275   | 0.000  |           |

| RT    | AREA  | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|-----------|
| 2.768 | 1029  | 4134   | 4.017   | 0.000  |           |
| 2.771 | 830   | 4189   | 5.050   | 0.000  |           |
| 2.778 | 1924  | 4438   | 2.307   | 0.000  |           |
| 2.784 | 5498  | 4564   | 0.830   | 0.000  |           |
| 2.846 | 25970 | 8400   | 0.323   | 0.003  |           |
| 2.880 | 939   | 3165   | 3.370   | 0.000  |           |
| 2.884 | 1885  | 3183   | 1.688   | 0.000  |           |
| 2.901 | 4805  | 3504   | 0.729   | 0.000  |           |
| 2.938 | 581   | 1990   | 3.423   | 0.000  |           |
| 2.944 | 1450  | 2016   | 1.390   | 0.000  |           |
| 2.955 | 449   | 1816   | 4.043   | 0.000  |           |
| 2.967 | 1234  | 2009   | 1.629   | 0.000  |           |
| 2.982 | 712   | 2087   | 2.931   | 0.000  |           |
| 2.988 | 1000  | 2338   | 2.337   | 0.000  |           |
| 3.001 | 3475  | 3541   | 1.019   | 0.000  |           |
| 3.018 | 3528  | 3705   | 1.050   | 0.000  |           |
| 3.033 | 983   | 2521   | 2.564   | 0.000  |           |
| 3.038 | 1297  | 2686   | 2.070   | 0.000  |           |
| 3.044 | 2547  | 2541   | 0.997   | 0.000  |           |
| 3.069 | 389   | 1330   | 3.418   | 0.000  |           |
| 3.078 | 728   | 1545   | 2.123   | 0.000  |           |
| 3.085 | 1244  | 1637   | 1.316   | 0.000  |           |
| 3.098 | 1115  | 1624   | 1.457   | 0.000  |           |
| 3.108 | 926   | 1475   | 1.593   | 0.000  |           |
| 3.119 | 239   | 1202   | 5.036   | 0.000  |           |
| 3.125 | 540   | 1251   | 2.315   | 0.000  |           |
| 3.133 | 409   | 1219   | 2.978   | 0.000  |           |
| 3.144 | 2600  | 1886   | 0.725   | 0.000  |           |
| 3.165 | 620   | 1604   | 2.588   | 0.000  |           |
| 3.173 | 554   | 1647   | 2.972   | 0.000  |           |
| 3.192 | 2423  | 2273   | 0.938   | 0.000  |           |
| 3.197 | 582   | 2418   | 4.158   | 0.000  |           |
| 3.204 | 1161  | 2723   | 2.346   | 0.000  |           |
| 3.208 | 825   | 2777   | 3.364   | 0.000  |           |
| 3.228 | 4472  | 3391   | 0.758   | 0.000  |           |
| 3.246 | 1586  | 2676   | 1.688   | 0.000  |           |
| 3.279 | 1194  | 2070   | 1.734   | 0.000  |           |
| 3.293 | 854   | 1951   | 2.285   | 0.000  |           |
| 3.298 | 595   | 2029   | 3.408   | 0.000  |           |
| 3.315 | 2640  | 2597   | 0.984   | 0.000  |           |
| 3.320 | 1015  | 2542   | 2.504   | 0.000  |           |
| 3.328 | 1549  | 2593   | 1.674   | 0.000  | 3 C10     |
| 3.338 | 1314  | 2533   | 1.928   | 0.000  |           |
| 3.350 | 523   | 2159   | 4.130   | 0.000  |           |
| 3.358 | 1776  | 2105   | 1.185   | 0.000  |           |
| 3.371 | 356   | 1797   | 5.043   | 0.000  |           |
| 3.378 | 914   | 1880   | 2.057   | 0.000  |           |
| 3.383 | 380   | 1927   | 5.068   | 0.000  |           |
| 3.387 | 595   | 2023   | 3.399   | 0.000  |           |
| 3.395 | 1390  | 2270   | 1.633   | 0.000  |           |
| 3.405 | 1490  | 1994   | 1.338   | 0.000  |           |
| 3.423 | 690   | 1601   | 2.321   | 0.000  |           |
| 3.435 | 821   | 1554   | 1.894   | 0.000  |           |
| 3.441 | 387   | 1583   | 4.087   | 0.000  |           |
| 3.444 | 401   | 1625   | 4.051   | 0.000  |           |
| 3.448 | 403   | 1636   | 4.060   | 0.000  |           |
| 3.455 | 1216  | 1700   | 1.398   | 0.000  |           |

| RT    | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|------|--------|---------|--------|-----------|
| 3.478 | 235  | 1185   | 5.047   | 0.000  |           |
| 3.482 | 412  | 1229   | 2.986   | 0.000  |           |
| 3.488 | 695  | 1177   | 1.694   | 0.000  |           |
| 3.501 | 239  | 969    | 4.063   | 0.000  |           |
| 3.509 | 914  | 1149   | 1.258   | 0.000  |           |
| 3.520 | 1078 | 1069   | 0.992   | 0.000  |           |
| 3.540 | 301  | 927    | 3.079   | 0.000  |           |
| 3.556 | 406  | 849    | 2.089   | 0.000  |           |
| 3.567 | 370  | 873    | 2.359   | 0.000  |           |
| 3.572 | 178  | 939    | 5.270   | 0.000  |           |
| 3.578 | 591  | 1171   | 1.981   | 0.000  |           |
| 3.591 | 869  | 1353   | 1.556   | 0.000  |           |
| 3.596 | 741  | 1352   | 1.826   | 0.000  |           |
| 3.606 | 471  | 1401   | 2.976   | 0.000  |           |
| 3.613 | 548  | 1411   | 2.577   | 0.000  |           |
| 3.618 | 433  | 1521   | 3.511   | 0.000  |           |
| 3.625 | 710  | 1635   | 2.303   | 0.000  |           |
| 3.630 | 910  | 1667   | 1.832   | 0.000  |           |
| 3.652 | 661  | 1562   | 2.362   | 0.000  |           |
| 3.670 | 462  | 1214   | 2.627   | 0.000  |           |
| 3.686 | 1036 | 1453   | 1.403   | 0.000  |           |
| 3.690 | 829  | 1374   | 1.658   | 0.000  |           |
| 3.702 | 531  | 1191   | 2.241   | 0.000  |           |
| 3.712 | 452  | 1355   | 3.001   | 0.000  |           |
| 3.716 | 820  | 1423   | 1.736   | 0.000  |           |
| 3.736 | 2685 | 2093   | 0.780   | 0.000  |           |
| 3.752 | 689  | 2030   | 2.946   | 0.000  |           |
| 3.760 | 4109 | 2349   | 0.572   | 0.000  |           |
| 3.805 | 3183 | 2036   | 0.640   | 0.000  |           |
| 3.823 | 496  | 1686   | 3.401   | 0.000  |           |
| 3.835 | 1641 | 2314   | 1.410   | 0.000  |           |
| 3.859 | 9243 | 4616   | 0.499   | 0.001  |           |
| 3.897 | 851  | 1745   | 2.051   | 0.000  |           |
| 3.904 | 503  | 1721   | 3.419   | 0.000  |           |
| 3.927 | 3866 | 3293   | 0.852   | 0.000  |           |
| 3.941 | 5520 | 3558   | 0.645   | 0.000  |           |
| 3.980 | 573  | 1715   | 2.991   | 0.000  |           |
| 3.992 | 1027 | 1794   | 1.748   | 0.000  |           |
| 3.995 | 1494 | 1860   | 1.245   | 0.000  |           |
| 4.010 | 887  | 1639   | 1.847   | 0.000  |           |
| 4.021 | 663  | 1724   | 2.602   | 0.000  |           |
| 4.026 | 1380 | 1776   | 1.287   | 0.000  |           |
| 4.045 | 306  | 1546   | 5.059   | 0.000  |           |
| 4.053 | 1001 | 1758   | 1.757   | 0.000  |           |
| 4.061 | 1137 | 1804   | 1.586   | 0.000  |           |
| 4.072 | 779  | 1773   | 2.275   | 0.000  |           |
| 4.080 | 989  | 1896   | 1.917   | 0.000  |           |
| 4.087 | 561  | 1905   | 3.396   | 0.000  |           |
| 4.098 | 1956 | 2156   | 1.103   | 0.000  |           |
| 4.106 | 1168 | 2044   | 1.750   | 0.000  |           |
| 4.127 | 1049 | 1627   | 1.551   | 0.000  |           |
| 4.142 | 587  | 1545   | 2.633   | 0.000  |           |
| 4.148 | 1155 | 1572   | 1.361   | 0.000  |           |
| 4.173 | 3682 | 2398   | 0.651   | 0.000  |           |
| 4.189 | 1023 | 1738   | 1.700   | 0.000  |           |
| 4.204 | 549  | 1627   | 2.961   | 0.000  |           |
| 4.213 | 628  | 1658   | 2.641   | 0.000  |           |

| RT    | AREA   | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|--------|--------|---------|--------|-----------|
| 4.221 | 1039   | 1830   | 1.761   | 0.000  |           |
| 4.227 | 447    | 1814   | 4.058   | 0.000  |           |
| 4.248 | 2703   | 2638   | 0.976   | 0.000  |           |
| 4.256 | 1387   | 2945   | 2.123   | 0.000  |           |
| 4.260 | 743    | 2988   | 4.022   | 0.000  |           |
| 4.265 | 912    | 3081   | 3.378   | 0.000  |           |
| 4.268 | 779    | 3140   | 4.031   | 0.000  |           |
| 4.275 | 1736   | 3217   | 1.853   | 0.000  |           |
| 4.289 | 2688   | 3495   | 1.300   | 0.000  |           |
| 4.295 | 3466   | 3448   | 0.995   | 0.000  |           |
| 4.322 | 1054   | 2680   | 2.543   | 0.000  | 4 C12     |
| 4.330 | 1686   | 2627   | 1.558   | 0.000  |           |
| 4.358 | 1066   | 1974   | 1.852   | 0.000  |           |
| 4.378 | 434    | 1758   | 4.054   | 0.000  |           |
| 4.384 | 1324   | 1879   | 1.419   | 0.000  |           |
| 4.403 | 860    | 1608   | 1.869   | 0.000  |           |
| 4.414 | 457    | 1567   | 3.431   | 0.000  |           |
| 4.421 | 1117   | 1675   | 1.499   | 0.000  |           |
| 4.433 | 910    | 1538   | 1.690   | 0.000  |           |
| 4.439 | 865    | 1534   | 1.774   | 0.000  |           |
| 4.449 | 764    | 1302   | 1.705   | 0.000  |           |
| 4.471 | 433    | 1123   | 2.593   | 0.000  |           |
| 4.476 | 734    | 1135   | 1.546   | 0.000  |           |
| 4.490 | 385    | 1005   | 2.610   | 0.000  |           |
| 4.498 | 555    | 1186   | 2.137   | 0.000  |           |
| 4.502 | 695    | 1166   | 1.677   | 0.000  |           |
| 4.518 | 587    | 949    | 1.618   | 0.000  |           |
| 4.526 | 316    | 925    | 2.924   | 0.000  |           |
| 4.533 | 560    | 989    | 1.765   | 0.000  |           |
| 4.543 | 469    | 1001   | 2.135   | 0.000  |           |
| 4.548 | 222    | 916    | 4.130   | 0.000  |           |
| 4.553 | 188    | 980    | 5.207   | 0.000  |           |
| 4.558 | 255    | 1038   | 4.076   | 0.000  |           |
| 4.568 | 652    | 1157   | 1.775   | 0.000  |           |
| 4.573 | 338    | 1151   | 3.409   | 0.000  |           |
| 4.580 | 487    | 1283   | 2.636   | 0.000  |           |
| 4.596 | 3801   | 1950   | 0.513   | 0.000  |           |
| 4.631 | 531    | 1429   | 2.692   | 0.000  |           |
| 4.663 | 4548   | 3737   | 0.822   | 0.000  |           |
| 4.667 | 2815   | 3822   | 1.358   | 0.000  |           |
| 4.679 | 2199   | 3760   | 1.710   | 0.000  |           |
| 4.688 | 1068   | 3585   | 3.356   | 0.000  |           |
| 4.694 | 2166   | 3742   | 1.727   | 0.000  |           |
| 4.723 | 372603 | 172476 | 0.463   | 0.055  |           |
| 4.894 | 47034  | 21828  | 0.464   | 0.006  |           |
| 4.956 | 80510  | 28154  | 0.350   | 0.011  |           |
| 4.999 | 54273  | 16950  | 0.312   | 0.008  |           |
| 5.068 | 1137   | 5713   | 5.027   | 0.000  |           |
| 5.072 | 8415   | 5792   | 0.688   | 0.001  |           |
| 5.105 | 4203   | 4316   | 1.027   | 0.000  | 5 C14     |
| 5.146 | 660    | 2685   | 4.070   | 0.000  |           |
| 5.153 | 2524   | 2649   | 1.050   | 0.000  |           |
| 5.170 | 1076   | 2437   | 2.265   | 0.000  |           |
| 5.174 | 2371   | 2438   | 1.028   | 0.000  |           |
| 5.201 | 1013   | 2011   | 1.986   | 0.000  |           |
| 5.210 | 2064   | 2332   | 1.130   | 0.000  |           |
| 5.224 | 1083   | 2304   | 2.127   | 0.000  |           |



| RT    | AREA      | HEIGHT   | HT/AREA | % AREA | COMPOUNDS    |
|-------|-----------|----------|---------|--------|--------------|
| 5.228 | 2027      | 2354     | 1.162   | 0.000  |              |
| 5.276 | 4673      | 2682     | 0.574   | 0.000  |              |
| 5.322 | 195       | 844      | 4.328   | 0.000  |              |
| 5.331 | 977       | 1203     | 1.231   | 0.000  |              |
| 5.356 | 490       | 993      | 2.027   | 0.000  |              |
| 5.361 | 814       | 1044     | 1.283   | 0.000  |              |
| 5.382 | 115       | 387      | 3.351   | 0.000  |              |
| 5.399 | 619       | 960      | 1.551   | 0.000  |              |
| 5.406 | 402       | 1035     | 2.576   | 0.000  |              |
| 5.410 | 378       | 1122     | 2.968   | 0.000  |              |
| 5.423 | 1663      | 1555     | 0.935   | 0.000  |              |
| 5.452 | 5951      | 5020     | 0.844   | 0.000  |              |
| 5.501 | 290       | 797      | 2.753   | 0.000  |              |
| 5.523 | 2317      | 2472     | 1.067   | 0.000  |              |
| 5.538 | 5946      | 6823     | 1.147   | 0.000  |              |
| 5.792 | 501855376 | 76456669 | 0.152   | 74.449 | 6 C16        |
| 5.807 | 79757019  | 82319946 | 1.032   | 11.775 |              |
| 5.823 | 77929961  | 88539160 | 1.136   | 11.505 |              |
| 5.962 | 75333     | 84828    | 1.126   | 0.011  |              |
| 5.986 | 474748    | 124326   | 0.262   | 0.070  |              |
| 6.070 | 17103     | 57180    | 3.343   | 0.002  |              |
| 6.074 | 120761    | 57565    | 0.477   | 0.017  |              |
| 6.113 | 90233     | 47140    | 0.522   | 0.013  |              |
| 6.165 | 407438    | 218439   | 0.536   | 0.060  |              |
| 6.263 | 944101    | 374166   | 0.396   | 0.139  |              |
| 6.414 | 114839    | 39498    | 0.344   | 0.016  | 7 C18        |
| 6.464 | 53190     | 31177    | 0.586   | 0.007  |              |
| 6.523 | 31509     | 25870    | 0.821   | 0.004  |              |
| 6.551 | 4785      | 23963    | 5.008   | 0.000  |              |
| 6.559 | 51194     | 25409    | 0.496   | 0.007  |              |
| 6.590 | 21354     | 21666    | 1.015   | 0.003  |              |
| 6.612 | 35061     | 21127    | 0.603   | 0.005  | \$ 8 o-terph |
| 6.638 | 17712     | 19934    | 1.125   | 0.002  |              |
| 6.672 | 22159     | 19651    | 0.887   | 0.003  |              |
| 6.683 | 26846     | 19268    | 0.718   | 0.003  |              |
| 6.708 | 5413      | 18142    | 3.351   | 0.000  |              |
| 6.713 | 24941     | 18247    | 0.732   | 0.003  |              |
| 6.747 | 50657     | 18478    | 0.365   | 0.007  |              |
| 6.795 | 23973     | 17444    | 0.728   | 0.003  |              |
| 6.814 | 28457     | 17895    | 0.629   | 0.004  |              |
| 6.837 | 10746     | 15445    | 1.437   | 0.001  |              |
| 6.871 | 29974     | 21406    | 0.714   | 0.004  |              |
| 6.874 | 4287      | 21471    | 5.009   | 0.000  |              |
| 6.882 | 20520     | 21675    | 1.056   | 0.003  |              |
| 6.944 | 32864     | 17445    | 0.531   | 0.004  |              |
| 6.978 | 9138      | 15347    | 1.679   | 0.001  |              |
| 7.014 | 4130      | 13830    | 3.348   | 0.000  | 9 C20        |
| 7.025 | 12567     | 14083    | 1.121   | 0.001  |              |
| 7.038 | 4952      | 14274    | 2.882   | 0.000  |              |
| 7.044 | 6508      | 14578    | 2.240   | 0.000  |              |
| 7.050 | 25344     | 14736    | 0.581   | 0.003  |              |
| 7.099 | 5531      | 12365    | 2.236   | 0.000  |              |
| 7.108 | 16440     | 12371    | 0.752   | 0.002  |              |
| 7.129 | 9415      | 11275    | 1.198   | 0.001  |              |
| 7.175 | 3589      | 10327    | 2.878   | 0.000  |              |
| 7.182 | 7285      | 10474    | 1.438   | 0.001  |              |
| 7.212 | 11252     | 10002    | 0.889   | 0.001  |              |

| RT    | AREA  | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|-----------|
| 7.227 | 5193  | 9506   | 1.830   | 0.000  |           |
| 7.237 | 5172  | 9476   | 1.832   | 0.000  |           |
| 7.247 | 4652  | 9357   | 2.011   | 0.000  |           |
| 7.254 | 3258  | 9369   | 2.875   | 0.000  |           |
| 7.259 | 7003  | 9455   | 1.350   | 0.001  |           |
| 7.272 | 5540  | 9252   | 1.670   | 0.000  |           |
| 7.283 | 4511  | 9087   | 2.014   | 0.000  |           |
| 7.296 | 5828  | 9031   | 1.550   | 0.000  |           |
| 7.308 | 4850  | 8866   | 1.828   | 0.000  |           |
| 7.318 | 3111  | 9014   | 2.897   | 0.000  |           |
| 7.324 | 3191  | 9168   | 2.873   | 0.000  |           |
| 7.328 | 2775  | 9325   | 3.360   | 0.000  |           |
| 7.339 | 6190  | 9713   | 1.569   | 0.000  |           |
| 7.344 | 2920  | 9761   | 3.343   | 0.000  |           |
| 7.350 | 17091 | 9874   | 0.578   | 0.002  |           |
| 7.379 | 7217  | 8616   | 1.194   | 0.001  |           |
| 7.395 | 5430  | 8408   | 1.548   | 0.000  |           |
| 7.404 | 2492  | 8342   | 3.348   | 0.000  |           |
| 7.409 | 1666  | 8354   | 5.014   | 0.000  |           |
| 7.415 | 2955  | 8500   | 2.877   | 0.000  |           |
| 7.423 | 3887  | 8782   | 2.259   | 0.000  |           |
| 7.465 | 28160 | 14253  | 0.506   | 0.004  |           |
| 7.471 | 6466  | 14499  | 2.242   | 0.000  |           |
| 7.480 | 6649  | 15111  | 2.273   | 0.000  |           |
| 7.484 | 26595 | 15197  | 0.571   | 0.003  |           |
| 7.514 | 13964 | 13621  | 0.975   | 0.002  |           |
| 7.539 | 8118  | 12614  | 1.554   | 0.001  |           |
| 7.553 | 10540 | 12495  | 1.185   | 0.001  |           |
| 7.584 | 2820  | 11307  | 4.010   | 0.000  |           |
| 7.590 | 4522  | 11429  | 2.527   | 0.000  | 10 C22    |
| 7.620 | 16634 | 10435  | 0.627   | 0.002  |           |
| 7.653 | 6793  | 9783   | 1.440   | 0.001  |           |
| 7.663 | 8606  | 9666   | 1.123   | 0.001  |           |
| 7.675 | 2827  | 9464   | 3.347   | 0.000  |           |
| 7.683 | 9373  | 9620   | 1.026   | 0.001  |           |
| 7.699 | 3657  | 9205   | 2.517   | 0.000  |           |
| 7.708 | 5071  | 9290   | 1.832   | 0.000  |           |
| 7.713 | 10483 | 9274   | 0.885   | 0.001  |           |
| 7.735 | 10686 | 9257   | 0.866   | 0.001  |           |
| 7.752 | 4732  | 8664   | 1.831   | 0.000  |           |
| 7.765 | 5624  | 8765   | 1.558   | 0.000  |           |
| 7.773 | 5614  | 8686   | 1.547   | 0.000  |           |
| 7.784 | 3375  | 8506   | 2.520   | 0.000  |           |
| 7.793 | 2118  | 8517   | 4.021   | 0.000  |           |
| 7.799 | 10086 | 8544   | 0.847   | 0.001  |           |
| 7.817 | 7761  | 8325   | 1.073   | 0.001  |           |
| 7.833 | 2415  | 8088   | 3.350   | 0.000  |           |
| 7.838 | 2838  | 8160   | 2.875   | 0.000  |           |
| 7.844 | 3649  | 8173   | 2.240   | 0.000  |           |
| 7.858 | 2009  | 8069   | 4.017   | 0.000  |           |
| 7.864 | 4482  | 8197   | 1.829   | 0.000  |           |
| 7.871 | 3688  | 8223   | 2.230   | 0.000  |           |
| 7.879 | 4875  | 8269   | 1.696   | 0.000  |           |
| 7.889 | 2009  | 8061   | 4.013   | 0.000  |           |
| 7.897 | 4080  | 8308   | 2.036   | 0.000  |           |
| 7.916 | 17828 | 10103  | 0.567   | 0.002  |           |
| 7.935 | 4052  | 9086   | 2.242   | 0.000  |           |

| RT    | AREA  | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|-----------|
| 7.940 | 2229  | 8948   | 4.015   | 0.000  |           |
| 7.945 | 5765  | 8973   | 1.556   | 0.000  |           |
| 7.954 | 6458  | 8765   | 1.357   | 0.000  |           |
| 7.976 | 2099  | 8428   | 4.016   | 0.000  |           |
| 7.984 | 10213 | 8807   | 0.862   | 0.001  |           |
| 7.999 | 4897  | 8282   | 1.691   | 0.000  |           |
| 8.013 | 8782  | 8112   | 0.924   | 0.001  |           |
| 8.028 | 5860  | 7858   | 1.341   | 0.000  |           |
| 8.040 | 3929  | 7871   | 2.003   | 0.000  |           |
| 8.054 | 9161  | 8146   | 0.889   | 0.001  |           |
| 8.067 | 2701  | 7766   | 2.876   | 0.000  |           |
| 8.074 | 3069  | 7702   | 2.510   | 0.000  |           |
| 8.081 | 2694  | 7742   | 2.874   | 0.000  |           |
| 8.088 | 2705  | 7793   | 2.881   | 0.000  |           |
| 8.095 | 5842  | 7832   | 1.341   | 0.000  |           |
| 8.104 | 5419  | 7841   | 1.447   | 0.000  |           |
| 8.119 | 5740  | 7735   | 1.348   | 0.000  |           |
| 8.134 | 4986  | 7768   | 1.558   | 0.000  |           |
| 8.141 | 5893  | 8009   | 1.359   | 0.000  |           |
| 8.159 | 9098  | 8027   | 0.882   | 0.001  | 11 C24    |
| 8.174 | 3156  | 7971   | 2.526   | 0.000  |           |
| 8.185 | 2376  | 7967   | 3.353   | 0.000  |           |
| 8.190 | 4739  | 7937   | 1.675   | 0.000  |           |
| 8.202 | 5181  | 8028   | 1.549   | 0.000  |           |
| 8.212 | 1994  | 8027   | 4.025   | 0.000  |           |
| 8.223 | 6137  | 8270   | 1.348   | 0.000  |           |
| 8.236 | 6864  | 8171   | 1.190   | 0.001  |           |
| 8.248 | 2383  | 7986   | 3.351   | 0.000  |           |
| 8.253 | 2405  | 8059   | 3.351   | 0.000  |           |
| 8.259 | 5294  | 8207   | 1.550   | 0.000  |           |
| 8.268 | 2866  | 8235   | 2.874   | 0.000  |           |
| 8.280 | 6583  | 8312   | 1.263   | 0.000  |           |
| 8.289 | 4538  | 8296   | 1.828   | 0.000  |           |
| 8.295 | 2060  | 8300   | 4.029   | 0.000  |           |
| 8.300 | 2063  | 8291   | 4.020   | 0.000  |           |
| 8.313 | 7062  | 8400   | 1.189   | 0.001  |           |
| 8.318 | 1667  | 8375   | 5.023   | 0.000  |           |
| 8.332 | 11362 | 9100   | 0.801   | 0.001  |           |
| 8.343 | 4357  | 8741   | 2.006   | 0.000  |           |
| 8.358 | 1267  | 8458   | 6.676   | 0.000  |           |
| 8.363 | 2991  | 8621   | 2.882   | 0.000  |           |
| 8.371 | 3980  | 8983   | 2.257   | 0.000  |           |
| 8.379 | 6330  | 9083   | 1.435   | 0.000  |           |
| 8.385 | 3111  | 8963   | 2.881   | 0.000  |           |
| 8.393 | 6706  | 9050   | 1.349   | 0.000  |           |
| 8.404 | 4903  | 8943   | 1.824   | 0.000  |           |
| 8.417 | 8437  | 8972   | 1.063   | 0.001  |           |
| 8.438 | 7166  | 9103   | 1.270   | 0.001  |           |
| 8.443 | 3211  | 9227   | 2.873   | 0.000  | 12 C25    |
| 8.450 | 3688  | 9295   | 2.521   | 0.000  |           |
| 8.455 | 2313  | 9276   | 4.010   | 0.000  |           |
| 8.475 | 30054 | 13714  | 0.456   | 0.004  |           |
| 8.504 | 5760  | 9733   | 1.690   | 0.000  |           |
| 8.519 | 2799  | 9376   | 3.350   | 0.000  |           |
| 8.529 | 4766  | 9710   | 2.037   | 0.000  |           |
| 8.537 | 4875  | 9815   | 2.013   | 0.000  |           |
| 8.543 | 8411  | 9973   | 1.186   | 0.001  |           |

| RT    | AREA  | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|-----------|
| 8.555 | 2969  | 9916   | 3.340   | 0.000  |           |
| 8.560 | 3974  | 9987   | 2.513   | 0.000  |           |
| 8.568 | 2483  | 9997   | 4.026   | 0.000  |           |
| 8.572 | 5007  | 10043  | 2.006   | 0.000  |           |
| 8.591 | 14074 | 10725  | 0.762   | 0.002  |           |
| 8.602 | 2648  | 10665  | 4.028   | 0.000  |           |
| 8.606 | 2159  | 10862  | 5.032   | 0.000  |           |
| 8.609 | 2183  | 10952  | 5.017   | 0.000  |           |
| 8.633 | 7361  | 10561  | 1.435   | 0.001  |           |
| 8.647 | 6774  | 10495  | 1.549   | 0.001  |           |
| 8.658 | 2596  | 10420  | 4.014   | 0.000  |           |
| 8.663 | 4723  | 10573  | 2.239   | 0.000  |           |
| 8.669 | 3156  | 10589  | 3.355   | 0.000  |           |
| 8.687 | 15405 | 11334  | 0.736   | 0.002  |           |
| 8.699 | 6103  | 11158  | 1.828   | 0.000  |           |
| 8.707 | 2223  | 11136  | 5.009   | 0.000  | 13 C26    |
| 8.730 | 28697 | 12536  | 0.437   | 0.004  |           |
| 8.754 | 8658  | 11553  | 1.334   | 0.001  |           |
| 8.763 | 2896  | 11612  | 4.010   | 0.000  |           |
| 8.780 | 15029 | 12352  | 0.822   | 0.002  |           |
| 8.788 | 1833  | 12243  | 6.680   | 0.000  |           |
| 8.798 | 11854 | 12679  | 1.070   | 0.001  |           |
| 8.806 | 1873  | 12509  | 6.677   | 0.000  |           |
| 8.809 | 3133  | 12565  | 4.011   | 0.000  |           |
| 8.813 | 2506  | 12550  | 5.008   | 0.000  |           |
| 8.819 | 7588  | 12757  | 1.681   | 0.001  |           |
| 8.829 | 4418  | 12679  | 2.870   | 0.000  |           |
| 8.835 | 6988  | 12762  | 1.826   | 0.001  |           |
| 8.848 | 13711 | 13258  | 0.967   | 0.002  |           |
| 8.872 | 26625 | 13656  | 0.513   | 0.003  |           |
| 8.894 | 4575  | 13127  | 2.869   | 0.000  |           |
| 8.898 | 2631  | 13188  | 5.013   | 0.000  |           |
| 8.902 | 5918  | 13262  | 2.241   | 0.000  |           |
| 8.914 | 8577  | 13313  | 1.552   | 0.001  |           |
| 8.922 | 4011  | 13433  | 3.349   | 0.000  |           |
| 8.926 | 4724  | 13546  | 2.867   | 0.000  |           |
| 8.933 | 6787  | 13651  | 2.011   | 0.001  |           |
| 8.946 | 9614  | 13923  | 1.448   | 0.001  |           |
| 8.951 | 6274  | 14004  | 2.232   | 0.000  |           |
| 8.960 | 5592  | 14036  | 2.510   | 0.000  |           |
| 8.966 | 3513  | 14090  | 4.011   | 0.000  |           |
| 8.969 | 2829  | 14171  | 5.009   | 0.000  |           |
| 8.973 | 4976  | 14233  | 2.860   | 0.000  |           |
| 8.980 | 4289  | 14365  | 3.350   | 0.000  |           |
| 8.996 | 27708 | 16441  | 0.593   | 0.004  |           |
| 9.013 | 8129  | 14847  | 1.827   | 0.001  |           |
| 9.025 | 8129  | 14840  | 1.826   | 0.001  |           |
| 9.036 | 7503  | 15229  | 2.030   | 0.001  |           |
| 9.040 | 4559  | 15225  | 3.340   | 0.000  |           |
| 9.057 | 14920 | 16251  | 1.089   | 0.002  |           |
| 9.067 | 9915  | 16831  | 1.698   | 0.001  |           |
| 9.076 | 8535  | 17331  | 2.031   | 0.001  |           |
| 9.081 | 5250  | 17596  | 3.352   | 0.000  |           |
| 9.084 | 10558 | 17675  | 1.674   | 0.001  |           |
| 9.095 | 4386  | 17601  | 4.013   | 0.000  |           |
| 9.111 | 30564 | 19262  | 0.630   | 0.004  |           |
| 9.128 | 8346  | 18722  | 2.243   | 0.001  |           |

| RT    | AREA  | HEIGHT | HT/AREA | % AREA | COMPOUNDS          |
|-------|-------|--------|---------|--------|--------------------|
| 9.139 | 15095 | 18986  | 1.258   | 0.002  |                    |
| 9.149 | 6655  | 19050  | 2.862   | 0.000  |                    |
| 9.158 | 23240 | 19719  | 0.848   | 0.003  |                    |
| 9.171 | 1903  | 19042  | 10.005  | 0.000  |                    |
| 9.175 | 4773  | 19156  | 4.013   | 0.000  |                    |
| 9.187 | 23630 | 19927  | 0.843   | 0.003  |                    |
| 9.199 | 4925  | 19763  | 4.013   | 0.000  |                    |
| 9.208 | 14115 | 20394  | 1.445   | 0.002  |                    |
| 9.219 | 12303 | 20691  | 1.682   | 0.001  |                    |
| 9.226 | 7266  | 20831  | 2.867   | 0.001  |                    |
| 9.233 | 15622 | 21000  | 1.344   | 0.002  | 14 C28             |
| 9.247 | 9280  | 20714  | 2.232   | 0.001  |                    |
| 9.262 | 45057 | 27849  | 0.618   | 0.006  |                    |
| 9.281 | 22651 | 23200  | 1.024   | 0.003  |                    |
| 9.304 | 13489 | 22820  | 1.692   | 0.001  |                    |
| 9.307 | 18038 | 22862  | 1.267   | 0.002  |                    |
| 9.328 | 8656  | 21778  | 2.516   | 0.001  |                    |
| 9.334 | 8635  | 21650  | 2.507   | 0.001  |                    |
| 9.343 | 16240 | 21738  | 1.339   | 0.002  |                    |
| 9.354 | 5409  | 21709  | 4.013   | 0.000  |                    |
| 9.367 | 16481 | 22234  | 1.349   | 0.002  |                    |
| 9.370 | 6683  | 22346  | 3.344   | 0.000  |                    |
| 9.382 | 14775 | 23166  | 1.568   | 0.002  |                    |
| 9.390 | 11679 | 23531  | 2.015   | 0.001  |                    |
| 9.394 | 12888 | 23584  | 1.830   | 0.001  |                    |
| 9.408 | 18752 | 23645  | 1.261   | 0.002  |                    |
| 9.416 | 4675  | 23396  | 5.004   | 0.000  |                    |
| 9.428 | 25138 | 24392  | 0.970   | 0.003  |                    |
| 9.438 | 20233 | 24095  | 1.191   | 0.002  |                    |
| 9.468 | 67429 | 26696  | 0.396   | 0.009  |                    |
| 9.496 | 8413  | 24122  | 2.867   | 0.001  |                    |
| 9.507 | 12049 | 24259  | 2.013   | 0.001  |                    |
| 9.527 | 36362 | 25771  | 0.709   | 0.005  |                    |
| 9.538 | 12891 | 25911  | 2.010   | 0.001  |                    |
| 9.543 | 6452  | 25853  | 4.007   | 0.000  |                    |
| 9.551 | 10420 | 26202  | 2.515   | 0.001  |                    |
| 9.557 | 29750 | 26593  | 0.894   | 0.004  |                    |
| 9.574 | 6252  | 25071  | 4.010   | 0.000  |                    |
| 9.593 | 29143 | 27655  | 0.949   | 0.004  |                    |
| 9.599 | 40783 | 27905  | 0.684   | 0.006  |                    |
| 9.620 | 13159 | 26364  | 2.004   | 0.001  |                    |
| 9.632 | 17259 | 26799  | 1.553   | 0.002  |                    |
| 9.640 | 13210 | 26592  | 2.013   | 0.001  |                    |
| 9.664 | 35362 | 28170  | 0.797   | 0.005  |                    |
| 9.672 | 27890 | 28134  | 1.009   | 0.004  |                    |
| 9.696 | 26737 | 28634  | 1.071   | 0.003  |                    |
| 9.711 | 53475 | 30848  | 0.577   | 0.007  |                    |
| 9.745 | 33266 | 29504  | 0.887   | 0.004  | \$ 15 Triacon Surr |
| 9.752 | 7348  | 29501  | 4.015   | 0.001  |                    |
| 9.756 | 20542 | 29565  | 1.439   | 0.003  |                    |
| 9.768 | 7255  | 29059  | 4.005   | 0.001  |                    |
| 9.773 | 7275  | 29173  | 4.010   | 0.001  |                    |
| 9.785 | 31543 | 30611  | 0.970   | 0.004  |                    |
| 9.803 | 46804 | 32832  | 0.701   | 0.006  |                    |
| 9.821 | 10456 | 30060  | 2.875   | 0.001  |                    |
| 9.833 | 30772 | 31156  | 1.012   | 0.004  |                    |
| 9.860 | 77784 | 33514  | 0.431   | 0.011  |                    |

| RT     | AREA  | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------|-------|--------|---------|--------|-----------|
| 9.881  | 12779 | 32069  | 2.510   | 0.001  |           |
| 9.892  | 14531 | 32668  | 2.248   | 0.002  |           |
| 9.896  | 8201  | 32902  | 4.012   | 0.001  |           |
| 9.908  | 23357 | 33882  | 1.451   | 0.003  |           |
| 9.912  | 27050 | 34095  | 1.260   | 0.003  |           |
| 9.939  | 14585 | 32570  | 2.233   | 0.002  |           |
| 9.951  | 23032 | 33095  | 1.437   | 0.003  |           |
| 9.956  | 11596 | 33292  | 2.871   | 0.001  |           |
| 9.966  | 16544 | 33271  | 2.011   | 0.002  |           |
| 9.971  | 11660 | 33391  | 2.864   | 0.001  |           |
| 9.975  | 10051 | 33617  | 3.345   | 0.001  |           |
| 9.983  | 15209 | 33983  | 2.234   | 0.002  |           |
| 9.988  | 15177 | 33830  | 2.229   | 0.002  |           |
| 9.996  | 10128 | 33907  | 3.348   | 0.001  |           |
| 10.018 | 43348 | 35629  | 0.822   | 0.006  |           |
| 10.021 | 7133  | 35693  | 5.004   | 0.001  |           |
| 10.025 | 8960  | 35988  | 4.016   | 0.001  |           |
| 10.034 | 42064 | 36944  | 0.878   | 0.006  |           |
| 10.063 | 65447 | 38699  | 0.591   | 0.009  |           |
| 10.077 | 7375  | 36906  | 5.004   | 0.001  |           |
| 10.083 | 16743 | 37428  | 2.235   | 0.002  |           |
| 10.095 | 34467 | 38665  | 1.122   | 0.005  |           |
| 10.118 | 90921 | 40621  | 0.447   | 0.013  |           |
| 10.151 | 37738 | 38047  | 1.008   | 0.005  |           |
| 10.158 | 11383 | 38037  | 3.342   | 0.001  |           |
| 10.168 | 36074 | 38274  | 1.061   | 0.005  |           |
| 10.181 | 15072 | 37809  | 2.509   | 0.002  | 16 C32    |
| 10.185 | 5655  | 37746  | 6.675   | 0.000  |           |
| 10.198 | 43905 | 38471  | 0.876   | 0.006  |           |
| 10.208 | 24771 | 38177  | 1.541   | 0.003  |           |
| 10.218 | 19031 | 38113  | 2.003   | 0.002  |           |
| 10.228 | 13353 | 38279  | 2.867   | 0.001  |           |
| 10.237 | 21225 | 38826  | 1.829   | 0.003  |           |
| 10.243 | 30946 | 38929  | 1.258   | 0.004  |           |
| 10.266 | 43064 | 39733  | 0.923   | 0.006  |           |
| 10.275 | 11912 | 39784  | 3.340   | 0.001  |           |
| 10.278 | 19932 | 39886  | 2.001   | 0.002  |           |
| 10.293 | 46366 | 40725  | 0.878   | 0.006  |           |
| 10.318 | 46465 | 41024  | 0.883   | 0.006  |           |
| 10.328 | 24720 | 41353  | 1.673   | 0.003  |           |
| 10.334 | 10308 | 41278  | 4.005   | 0.001  |           |
| 10.343 | 29100 | 41866  | 1.439   | 0.004  |           |
| 10.354 | 22822 | 41695  | 1.827   | 0.003  |           |
| 10.360 | 16568 | 41490  | 2.504   | 0.002  |           |
| 10.376 | 31388 | 42321  | 1.348   | 0.004  |           |
| 10.384 | 36478 | 43119  | 1.182   | 0.005  |           |
| 10.393 | 21427 | 43144  | 2.014   | 0.003  |           |
| 10.416 | 82339 | 44731  | 0.543   | 0.012  |           |
| 10.434 | 23173 | 42257  | 1.824   | 0.003  |           |
| 10.455 | 42801 | 43684  | 1.021   | 0.006  |           |
| 10.459 | 19648 | 44004  | 2.240   | 0.002  |           |
| 10.469 | 19632 | 43883  | 2.235   | 0.002  |           |
| 10.492 | 56113 | 45807  | 0.816   | 0.008  |           |
| 10.497 | 20626 | 45915  | 2.226   | 0.003  |           |
| 10.503 | 27439 | 45837  | 1.671   | 0.004  |           |
| 10.513 | 31833 | 45842  | 1.440   | 0.004  |           |
| 10.523 | 6773  | 45190  | 6.672   | 0.001  |           |

| RT     | AREA   | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------|--------|--------|---------|--------|-----------|
| 10.529 | 22697  | 45513  | 2.005   | 0.003  |           |
| 10.543 | 39087  | 46432  | 1.188   | 0.005  |           |
| 10.552 | 16284  | 46719  | 2.869   | 0.002  |           |
| 10.558 | 18796  | 47158  | 2.509   | 0.002  |           |
| 10.576 | 69878  | 48769  | 0.698   | 0.010  |           |
| 10.586 | 12085  | 48384  | 4.004   | 0.001  |           |
| 10.592 | 21757  | 48469  | 2.228   | 0.003  |           |
| 10.609 | 46960  | 50482  | 1.075   | 0.006  |           |
| 10.616 | 40486  | 50812  | 1.255   | 0.005  | 17 C34    |
| 10.628 | 52392  | 50284  | 0.960   | 0.007  |           |
| 10.665 | 99744  | 52644  | 0.528   | 0.014  |           |
| 10.680 | 20832  | 52264  | 2.509   | 0.003  |           |
| 10.699 | 126137 | 55939  | 0.443   | 0.018  |           |
| 10.723 | 18258  | 52316  | 2.865   | 0.002  |           |
| 10.733 | 65550  | 52928  | 0.807   | 0.009  |           |
| 10.751 | 49102  | 51903  | 1.057   | 0.007  |           |
| 10.765 | 10288  | 51490  | 5.005   | 0.001  |           |
| 10.777 | 73220  | 52877  | 0.722   | 0.010  |           |
| 10.791 | 15621  | 52150  | 3.338   | 0.002  |           |
| 10.799 | 46819  | 52190  | 1.115   | 0.006  |           |
| 10.817 | 52000  | 52328  | 1.006   | 0.007  |           |
| 10.828 | 13014  | 52167  | 4.008   | 0.001  |           |
| 10.833 | 18275  | 52280  | 2.861   | 0.002  |           |
| 10.838 | 67284  | 52271  | 0.777   | 0.009  |           |
| 10.860 | 15395  | 51401  | 3.339   | 0.002  |           |
| 10.867 | 15366  | 51252  | 3.335   | 0.002  |           |
| 10.874 | 25712  | 51608  | 2.007   | 0.003  |           |
| 10.885 | 59363  | 52064  | 0.877   | 0.008  |           |
| 10.901 | 33199  | 51247  | 1.544   | 0.004  |           |
| 10.911 | 35859  | 51446  | 1.435   | 0.005  |           |
| 10.925 | 15150  | 50526  | 3.335   | 0.002  |           |
| 10.936 | 27761  | 50508  | 1.819   | 0.004  |           |
| 10.954 | 40634  | 51235  | 1.261   | 0.005  |           |
| 10.958 | 17973  | 51428  | 2.861   | 0.002  |           |
| 10.982 | 101216 | 54997  | 0.543   | 0.014  |           |
| 10.999 | 80380  | 54264  | 0.675   | 0.011  |           |
| 11.022 | 15822  | 52869  | 3.342   | 0.002  |           |
| 11.029 | 23878  | 53171  | 2.227   | 0.003  |           |
| 11.032 | 23908  | 53219  | 2.226   | 0.003  |           |
| 11.044 | 39793  | 53228  | 1.338   | 0.005  |           |
| 11.053 | 13218  | 52959  | 4.007   | 0.001  | 19 C36    |
| 11.057 | 26491  | 53088  | 2.004   | 0.003  |           |
| 11.069 | 47933  | 53454  | 1.115   | 0.007  |           |
| 11.079 | 78088  | 52997  | 0.679   | 0.011  |           |
| 11.132 | 4853   | 48537  | 10.002  | 0.000  |           |
| 11.138 | 21933  | 48845  | 2.227   | 0.003  |           |
| 11.148 | 46678  | 49317  | 1.057   | 0.006  |           |
| 11.158 | 12248  | 49060  | 4.006   | 0.001  |           |
| 11.164 | 14711  | 49102  | 3.338   | 0.002  |           |
| 11.179 | 64473  | 49939  | 0.775   | 0.009  |           |
| 11.192 | 19751  | 49439  | 2.503   | 0.002  |           |
| 11.197 | 14848  | 49541  | 3.337   | 0.002  |           |
| 11.202 | 17336  | 49566  | 2.859   | 0.002  |           |
| 11.206 | 12400  | 49639  | 4.003   | 0.001  |           |
| 11.212 | 56808  | 49881  | 0.878   | 0.008  |           |
| 11.230 | 26830  | 48794  | 1.819   | 0.003  |           |
| 11.263 | 19014  | 47590  | 2.503   | 0.002  |           |

| RT     | AREA  | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------|-------|--------|---------|--------|-----------|
| 11.267 | 11927 | 47790  | 4.007   | 0.001  |           |
| 11.285 | 66432 | 50042  | 0.753   | 0.009  |           |
| 11.308 | 17214 | 49235  | 2.860   | 0.002  |           |
| 11.312 | 19684 | 49285  | 2.504   | 0.002  |           |
| 11.322 | 19740 | 49570  | 2.511   | 0.002  |           |
| 11.331 | 27467 | 50208  | 1.828   | 0.004  |           |
| 11.334 | 12565 | 50301  | 4.003   | 0.001  |           |
| 11.338 | 17617 | 50367  | 2.859   | 0.002  |           |
| 11.356 | 50450 | 50688  | 1.005   | 0.007  |           |
| 11.383 | 31641 | 48774  | 1.541   | 0.004  |           |
| 11.392 | 14562 | 48589  | 3.337   | 0.002  |           |
| 11.398 | 14566 | 48593  | 3.336   | 0.002  |           |
| 11.405 | 21947 | 48858  | 2.226   | 0.003  |           |
| 11.418 | 36961 | 49602  | 1.342   | 0.005  |           |
| 11.428 | 52174 | 49838  | 0.955   | 0.007  |           |
| 11.438 | 46900 | 49605  | 1.058   | 0.006  |           |
| 11.456 | 66003 | 49218  | 0.746   | 0.009  |           |
| 11.481 | 84312 | 48818  | 0.579   | 0.012  |           |
| 11.518 | 39837 | 46996  | 1.180   | 0.005  |           |
| 11.533 | 55836 | 46822  | 0.839   | 0.008  | 20 C38    |
| 11.560 | 30101 | 46465  | 1.544   | 0.004  |           |
| 11.568 | 20916 | 46512  | 2.224   | 0.003  |           |
| 11.573 | 11637 | 46596  | 4.004   | 0.001  |           |
| 11.579 | 23274 | 46598  | 2.002   | 0.003  |           |
| 11.586 | 13953 | 46531  | 3.335   | 0.002  |           |
| 11.591 | 9318  | 46631  | 5.004   | 0.001  |           |
| 11.623 | 97892 | 48831  | 0.499   | 0.014  |           |
| 11.631 | 17107 | 48984  | 2.863   | 0.002  |           |
| 11.638 | 22090 | 49260  | 2.230   | 0.003  |           |
| 11.642 | 32050 | 49351  | 1.540   | 0.004  |           |
| 11.669 | 95446 | 50981  | 0.534   | 0.014  |           |
| 11.685 | 95822 | 49865  | 0.520   | 0.014  |           |
| 11.788 | 8918  | 44609  | 5.002   | 0.001  |           |
| 11.791 | 35704 | 44768  | 1.254   | 0.005  |           |
| 11.804 | 11082 | 44350  | 4.002   | 0.001  |           |
| 11.813 | 22172 | 44403  | 2.003   | 0.003  |           |
| 11.823 | 19993 | 44543  | 2.228   | 0.002  |           |
| 11.829 | 13395 | 44754  | 3.341   | 0.001  |           |
| 11.837 | 20184 | 44981  | 2.228   | 0.002  |           |
| 11.852 | 26933 | 44942  | 1.669   | 0.003  |           |
| 11.866 | 36041 | 45224  | 1.255   | 0.005  |           |
| 11.877 | 15835 | 45355  | 2.864   | 0.002  |           |
| 11.883 | 18222 | 45726  | 2.509   | 0.002  |           |
| 11.889 | 15985 | 45741  | 2.861   | 0.002  |           |
| 11.896 | 20679 | 46117  | 2.230   | 0.003  |           |
| 11.905 | 23259 | 46896  | 2.016   | 0.003  |           |
| 11.929 | 70146 | 49826  | 0.710   | 0.010  |           |
| 11.936 | 52288 | 50085  | 0.958   | 0.007  |           |
| 11.951 | 14787 | 49369  | 3.339   | 0.002  |           |
| 11.957 | 17313 | 49595  | 2.865   | 0.002  |           |
| 11.961 | 32199 | 49647  | 1.542   | 0.004  |           |
| 11.971 | 19578 | 49063  | 2.506   | 0.002  |           |
| 11.980 | 34244 | 49065  | 1.433   | 0.005  |           |
| 12.019 | 96987 | 51133  | 0.527   | 0.014  |           |
| 12.025 | 48685 | 51499  | 1.058   | 0.007  |           |
| 12.053 | 38386 | 51386  | 1.339   | 0.005  |           |
| 12.062 | 38575 | 51549  | 1.336   | 0.005  |           |



| RT     | AREA   | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------|--------|--------|---------|--------|-----------|
| 12.070 | 17923  | 51300  | 2.862   | 0.002  |           |
| 12.078 | 45780  | 51141  | 1.117   | 0.006  |           |
| 12.105 | 31495  | 48817  | 1.550   | 0.004  |           |
| 12.118 | 85510  | 48295  | 0.565   | 0.012  |           |
| 12.148 | 55474  | 46657  | 0.841   | 0.008  | 21 C40    |
| 12.172 | 34299  | 45899  | 1.338   | 0.005  |           |
| 12.181 | 18286  | 45754  | 2.502   | 0.002  |           |
| 12.188 | 20565  | 45727  | 2.223   | 0.003  |           |
| 12.198 | 29701  | 45787  | 1.542   | 0.004  |           |
| 12.212 | 11377  | 45530  | 4.002   | 0.001  |           |
| 12.218 | 29576  | 45566  | 1.541   | 0.004  |           |
| 12.237 | 41054  | 45750  | 1.114   | 0.006  |           |
| 12.243 | 13695  | 45701  | 3.337   | 0.002  |           |
| 12.253 | 27528  | 46122  | 1.675   | 0.004  |           |
| 12.260 | 16149  | 46201  | 2.861   | 0.002  |           |
| 12.272 | 32473  | 46571  | 1.434   | 0.004  |           |
| 12.347 | 231342 | 54259  | 0.235   | 0.034  |           |
| 12.355 | 96470  | 54322  | 0.563   | 0.014  |           |
| 12.383 | 13155  | 52687  | 4.005   | 0.001  |           |
| 12.389 | 52817  | 52930  | 1.002   | 0.007  |           |
| 12.434 | 117936 | 55204  | 0.468   | 0.017  |           |
| 12.440 | 19323  | 55283  | 2.861   | 0.002  |           |
| 12.448 | 22049  | 55156  | 2.502   | 0.003  |           |
| 12.460 | 127044 | 56114  | 0.442   | 0.018  |           |
| 12.500 | 63536  | 55700  | 0.877   | 0.009  |           |
| 12.519 | 44746  | 56237  | 1.257   | 0.006  |           |
| 12.523 | 16928  | 56556  | 3.341   | 0.002  |           |
| 12.528 | 14154  | 56666  | 4.003   | 0.002  |           |
| 12.532 | 14154  | 56644  | 4.002   | 0.002  |           |
| 12.538 | 25607  | 57089  | 2.229   | 0.003  |           |
| 12.543 | 31284  | 57010  | 1.822   | 0.004  |           |
| 12.560 | 76588  | 57084  | 0.745   | 0.011  |           |
| 12.574 | 22463  | 56167  | 2.500   | 0.003  |           |
| 12.583 | 192414 | 56305  | 0.293   | 0.028  |           |
| 12.668 | 201456 | 54098  | 0.269   | 0.029  |           |
| 12.722 | 63529  | 49368  | 0.777   | 0.009  |           |
| 12.744 | 14574  | 48683  | 3.340   | 0.002  |           |
| 12.757 | 68233  | 49046  | 0.719   | 0.010  |           |
| 12.777 | 29106  | 48653  | 1.672   | 0.004  |           |
| 12.802 | 69072  | 49884  | 0.722   | 0.010  |           |
| 12.805 | 19947  | 49915  | 2.502   | 0.002  |           |
| 12.813 | 12457  | 49907  | 4.006   | 0.001  |           |
| 12.826 | 42860  | 50672  | 1.182   | 0.006  |           |
| 12.830 | 15192  | 50711  | 3.338   | 0.002  |           |
| 12.835 | 63121  | 50727  | 0.804   | 0.009  |           |
| 12.856 | 30109  | 50299  | 1.671   | 0.004  |           |
| 12.871 | 12459  | 49875  | 4.003   | 0.001  |           |
| 12.876 | 24950  | 49913  | 2.001   | 0.003  |           |
| 12.883 | 12458  | 49860  | 4.002   | 0.001  |           |
| 12.892 | 24999  | 50091  | 2.004   | 0.003  |           |
| 12.904 | 37682  | 50442  | 1.339   | 0.005  |           |
| 12.918 | 60965  | 51059  | 0.838   | 0.009  |           |
| 12.929 | 15268  | 50972  | 3.338   | 0.002  |           |
| 12.950 | 101236 | 52476  | 0.518   | 0.014  |           |
| 12.991 | 32619  | 50285  | 1.542   | 0.004  |           |
| 13.030 | 23826  | 47690  | 2.002   | 0.003  |           |
| 13.047 | 49429  | 47410  | 0.959   | 0.007  |           |

| RT     | AREA   | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------|--------|--------|---------|--------|-----------|
| 13.072 | 11668  | 46709  | 4.003   | 0.001  |           |
| 13.077 | 14056  | 46964  | 3.341   | 0.002  |           |
| 13.083 | 21201  | 47214  | 2.227   | 0.003  |           |
| 13.092 | 45034  | 47490  | 1.055   | 0.006  |           |
| 13.103 | 33139  | 47401  | 1.430   | 0.004  |           |
| 13.119 | 58622  | 47300  | 0.807   | 0.008  |           |
| 13.136 | 61979  | 46406  | 0.749   | 0.009  |           |
| 13.163 | 36232  | 45399  | 1.253   | 0.005  |           |
| 13.172 | 13552  | 45219  | 3.337   | 0.002  |           |
| 13.178 | 13550  | 45211  | 3.337   | 0.002  |           |
| 13.183 | 13581  | 45318  | 3.337   | 0.002  |           |
| 13.188 | 15867  | 45365  | 2.859   | 0.002  |           |
| 13.193 | 11350  | 45433  | 4.003   | 0.001  |           |
| 13.206 | 54879  | 45909  | 0.837   | 0.008  |           |
| 13.233 | 74220  | 46899  | 0.632   | 0.010  |           |
| 13.246 | 18724  | 46923  | 2.506   | 0.002  |           |
| 13.250 | 14089  | 47028  | 3.338   | 0.002  |           |
| 13.254 | 9392   | 46999  | 5.004   | 0.001  |           |
| 13.261 | 35241  | 47103  | 1.337   | 0.005  |           |
| 13.270 | 21093  | 46884  | 2.223   | 0.003  |           |
| 13.278 | 16404  | 46889  | 2.858   | 0.002  |           |
| 13.284 | 28108  | 46937  | 1.670   | 0.004  |           |
| 13.309 | 27777  | 46575  | 1.677   | 0.004  |           |
| 13.313 | 11643  | 46617  | 4.004   | 0.001  |           |
| 13.323 | 30391  | 46938  | 1.544   | 0.004  |           |
| 13.337 | 49696  | 47554  | 0.957   | 0.007  |           |
| 13.345 | 11906  | 47686  | 4.005   | 0.001  |           |
| 13.352 | 21499  | 47921  | 2.229   | 0.003  |           |
| 13.358 | 14416  | 48133  | 3.339   | 0.002  |           |
| 13.366 | 24163  | 48487  | 2.007   | 0.003  |           |
| 13.391 | 108474 | 49842  | 0.459   | 0.016  |           |
| 13.411 | 39818  | 49922  | 1.254   | 0.005  |           |
| 13.421 | 140245 | 49882  | 0.356   | 0.020  |           |
| 13.468 | 75433  | 46221  | 0.613   | 0.011  |           |
| 13.519 | 59701  | 44435  | 0.744   | 0.008  |           |
| 13.538 | 26345  | 44021  | 1.671   | 0.003  |           |
| 13.553 | 17475  | 43727  | 2.502   | 0.002  |           |
| 13.559 | 19699  | 43828  | 2.225   | 0.002  |           |
| 13.566 | 15324  | 43832  | 2.860   | 0.002  |           |
| 13.574 | 28519  | 43956  | 1.541   | 0.004  |           |
| 13.585 | 21950  | 43943  | 2.002   | 0.003  |           |
| 13.595 | 26497  | 44341  | 1.673   | 0.003  |           |
| 13.603 | 22230  | 44574  | 2.005   | 0.003  |           |
| 13.608 | 11135  | 44585  | 4.004   | 0.001  |           |
| 13.633 | 100703 | 46371  | 0.460   | 0.014  |           |
| 13.650 | 25255  | 45974  | 1.820   | 0.003  |           |
| 13.663 | 20511  | 45675  | 2.227   | 0.003  |           |
| 13.670 | 15945  | 45584  | 2.859   | 0.002  |           |
| 13.677 | 40973  | 45642  | 1.114   | 0.006  |           |
| 13.688 | 4544   | 45448  | 10.002  | 0.000  |           |
| 13.693 | 29520  | 45508  | 1.542   | 0.004  |           |
| 13.718 | 24720  | 44995  | 1.820   | 0.003  |           |
| 13.727 | 11216  | 44890  | 4.002   | 0.001  |           |
| 13.735 | 29185  | 45025  | 1.543   | 0.004  |           |
| 13.752 | 17874  | 44782  | 2.505   | 0.002  |           |
| 13.767 | 35874  | 45020  | 1.255   | 0.005  |           |
| 13.775 | 36036  | 45104  | 1.252   | 0.005  |           |

| RT                 | AREA               | HEIGHT           | HT/AREA | % AREA | COMPOUNDS      |
|--------------------|--------------------|------------------|---------|--------|----------------|
| 13.785             | 11226              | 44939            | 4.003   | 0.001  |                |
| 13.790             | 47016              | 44953            | 0.956   | 0.006  |                |
| 13.813             | 11118              | 44516            | 4.004   | 0.001  |                |
| 13.818             | 37641              | 44507            | 1.182   | 0.005  |                |
| 13.832             | 15424              | 44192            | 2.865   | 0.002  |                |
| 13.838             | 17564              | 43967            | 2.503   | 0.002  |                |
| 13.844             | 26339              | 43892            | 1.666   | 0.003  |                |
| 13.855             | 30567              | 43821            | 1.434   | 0.004  |                |
| 13.865             | 23854              | 43526            | 1.825   | 0.003  |                |
| 13.882             | 28266              | 43639            | 1.544   | 0.004  |                |
| 13.886             | 30418              | 43629            | 1.434   | 0.004  |                |
| 13.901             | 34702              | 43472            | 1.253   | 0.005  |                |
| 13.920             | 48162              | 44005            | 0.914   | 0.007  |                |
| 13.928             | 17577              | 43956            | 2.501   | 0.002  |                |
| 13.941             | 15410              | 44084            | 2.861   | 0.002  |                |
| 13.946             | 11045              | 44251            | 4.006   | 0.001  |                |
| 13.949             | 24369              | 44341            | 1.820   | 0.003  |                |
| 13.959             | 22103              | 44264            | 2.003   | 0.003  |                |
| 13.967             | 22088              | 44195            | 2.001   | 0.003  |                |
| 13.976             | 33207              | 44336            | 1.335   | 0.004  | 18 Filter Peak |
| 13.998             | 24195              | 44018            | 1.819   | 0.003  |                |
| 14.007             | 15335              | 43888            | 2.862   | 0.002  |                |
| 14.014             | 17519              | 43863            | 2.504   | 0.002  |                |
| 14.019             | 54335              | 43870            | 0.807   | 0.008  |                |
| 14.046             | 10722              | 42915            | 4.003   | 0.001  |                |
| 14.052             | 19305              | 42955            | 2.225   | 0.002  |                |
| 14.058             | 8568               | 42864            | 5.003   | 0.001  |                |
| 14.067             | 38739              | 43159            | 1.114   | 0.005  |                |
| 14.077             | 15012              | 42931            | 2.860   | 0.002  |                |
| 14.083             | 25753              | 42977            | 1.669   | 0.003  |                |
| 14.102             | 25682              | 42913            | 1.671   | 0.003  |                |
| 14.108             | 19267              | 42865            | 2.225   | 0.002  |                |
| 14.116             | 12834              | 42815            | 3.336   | 0.001  |                |
| 14.126             | 25874              | 43369            | 1.676   | 0.003  |                |
| 14.133             | 56339              | 43595            | 0.774   | 0.008  |                |
| 14.161             | 32503              | 43582            | 1.341   | 0.004  |                |
| 14.165             | 10909              | 43696            | 4.006   | 0.001  |                |
| 14.170             | 15313              | 43822            | 2.862   | 0.002  |                |
| 14.175             | 10960              | 43911            | 4.007   | 0.001  |                |
| 14.178             | 13176              | 43945            | 3.335   | 0.001  |                |
| 14.183             | 19785              | 43976            | 2.223   | 0.002  |                |
| 14.191             | 8796               | 44018            | 5.005   | 0.001  |                |
| 14.197             | 17636              | 44177            | 2.505   | 0.002  |                |
| 14.208             | 28815              | 44459            | 1.543   | 0.004  |                |
| 14.219             | 8873               | 44379            | 5.002   | 0.001  |                |
| 14.223             | 13318              | 44445            | 3.337   | 0.001  |                |
| 14.229             | 28860              | 44456            | 1.540   | 0.004  |                |
| 14.247             | 15436              | 44194            | 2.863   | 0.002  |                |
| 14.260             | 37147              | 43758            | 1.178   | 0.005  |                |
| 14.274             | 45685              | 43705            | 0.957   | 0.006  |                |
| =====<br>677340272 | =====<br>268782821 | =====<br>100.000 |         |        |                |

Total unknown % area = 25.478

## Certificate of Composition - Analytical Standard

## ACID STOCK

**Product no.:** 22523046  
**Lot no.:** LRAC9812  
**Expiry Date:** May 2023  
**Manufacturing Date:** May 2021  
**Storage:** Refrigerate  
**Solvent/Matrix:** Dichloromethane  
**Certificate version:** LRAC9812.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: [www.sigma-aldrich.com](http://www.sigma-aldrich.com) for the most current version.)

**J005200**  
 SVOA-ABN ACID STOCK-200-800ug/ml  
 Solvent / Lot: DCM  
 Prep: 5/18/2021 by JZ  
 Exp: 5/31/2023  
 Location:

 5/18/21

| Analyte                                     | Assigned Value | Units | Raw Material Purity, % | Raw Material Lot |
|---|----------------|-------|------------------------|------------------|
| 2,4-DIMETHYLPHENOL<br>CAS# 105-67-9         | 802            | µg/mL | 99.9                   | LB88935          |
| 2,4-DICHLOROPHENOL<br>CAS# 120-83-2         | 802            | µg/mL | 100.0                  | BCBZ6787         |
| 2,4,5-TRICHLOROPHENOL<br>CAS# 95-95-4       | 802            | µg/mL | 99.9                   | JS00008          |
| 2,4-DINITROPHENOL<br>CAS# 51-28-5           | 1806           | µg/mL | 75.9                   | MKBP5833V        |
| 2,4,6-TRICHLOROPHENOL<br>CAS# 88-06-2       | 803            | µg/mL | 98.7                   | LB82983          |
| 4-CHLORO-3-METHYLPHENOL<br>CAS# 59-50-7     | 801            | µg/mL | 99.9                   | JS00013          |
| 4-NITROPHENOL<br>CAS# 100-02-7              | 801            | µg/mL | 99.9                   | LC10889          |
| 2-METHYL-4,6-DINITROPHENOL<br>CAS# 534-52-1 | 1804           | µg/mL | 99.7                   | LC18338          |
| PENTACHLOROPHENOL<br>CAS# 87-86-5           | 803            | µg/mL | 98.7                   | MKCK8156         |
| BENZOIC ACID<br>CAS# 65-85-0                | 1805           | µg/mL | 99.9                   | LC16514          |

**Measurement method:** Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

**Intended use:** Intended for R&D and Analytical Use only. Not for drug, household or other uses.

**Packaging:** 1 mL in amber ampule

**Instructions for handling and correct use:** Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user's location. Open slowly and carefully to avoid dispersion of the material.

**Health and safety information:** All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.



# Certificate of Analysis

**J008074**

 SVOA PAH STD 2000ug/ml  
 Expires 6/30/2023  
 Prepared By Joshua Rains 8/5/2021

**Product Name:** PAH Standard

**Product Number:** US-106N-1

**Lot Issue Date:** 11-Jun-2020

**Lot Number:** 0006540449

**Expiration Date:** 30-Jun-2023

**Description:**

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte                | CAS#        | Analyte Lot | Concentration ± Uncertainty |
|------------------------|-------------|-------------|-----------------------------|
| acenaphthene           | 000083-32-9 | RM10879     | 2008 ± 10 µg/mL             |
| acenaphthylene         | 000208-96-8 | RM10891     | 2003 ± 10 µg/mL             |
| anthracene             | 000120-12-7 | RM14212     | 2006 ± 10 µg/mL             |
| benz[a]anthracene      | 000056-55-3 | RM16072     | 2006 ± 10 µg/mL             |
| benzo[b]fluoranthene   | 000205-99-2 | RM14571     | 2005 ± 10 µg/mL             |
| benzo[k]fluoranthene   | 000207-08-9 | RM14321     | 2009 ± 10 µg/mL             |
| benzo[ghi]perylene     | 000191-24-2 | RM15761     | 2008 ± 10 µg/mL             |
| benzo[a]pyrene         | 000050-32-8 | RM12669     | 2009 ± 10 µg/mL             |
| chrysene               | 000218-01-9 | RM12260     | 2009 ± 10 µg/mL             |
| dibenz[a,h]anthracene  | 000053-70-3 | RM06786     | 2009 ± 10 µg/mL             |
| fluoranthene           | 000206-44-0 | RM12277     | 2004 ± 10 µg/mL             |
| fluorene               | 000086-73-7 | RM09441     | 2009 ± 10 µg/mL             |
| indeno[1,2,3-cd]pyrene | 000193-39-5 | RM14192     | 2009 ± 10 µg/mL             |
| naphthalene            | 000091-20-3 | NT00970     | 2008 ± 10 µg/mL             |
| phenanthrene           | 000085-01-8 | RM10495     | 2009 ± 10 µg/mL             |
| pyrene                 | 000129-00-0 | RM03479     | 2008 ± 10 µg/mL             |

**Matrix:** methylene chloride/benzene (1:1)

 ISO 17034 Cert No.  
 AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 2

[www.agilent.com/quality/](http://www.agilent.com/quality/)

 ISO 17025 Cert  
 No. AT-1937

# Certificate of Analysis

**Product Number:** US-106N-1

**Lot Number:** 0006540449

**Storage Conditions:** Store at Room Temperature (15° to 30°C).

**Traceability:**

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

**Homogeneity:**

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Intended Use:**

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

**Hazards:**

Refer to the Safety Data Sheet on [www.agilent.com](http://www.agilent.com) for information regarding this RM.

**Expiration of Certification:**

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

**Maintenance of Certification:**

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

**Sample lot approver:**



Monica Bourgeois  
QMS Representative



ISO 17034 Cert No.  
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 2 of 2

[www.agilent.com/quality/](http://www.agilent.com/quality/)



ISO 17025 Cert  
No. AT-1937

# Certificate of Analysis

**Produced by Phenova**

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Access your Safety Data Sheets and digital Certificates at [www.phenova.com/documents](http://www.phenova.com/documents).

## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101244

**Lot Number:** CL16062

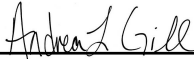
**Description:** Benzidines Standard

**Certification Date:** November 19, 2020

**Storage:** 4 °C

**Expiration Date:** November 30, 2030

**Provided As:** 1 mL in 2 mL Ampoule in Methylene Chloride



Andrea Gill, Certified Reference Materials Manager

| Component              | CAS #   | Certified Value<br>µg/mL | Expanded Uncertainty |
|------------------------|---------|--------------------------|----------------------|
| Benzidine              | 92-87-5 | 2000                     | ± 2.740%             |
| 3,3'-Dichlorobenzidine | 91-94-1 | 2000                     | ± 3.229%             |

**J008310**

Benzidines std @2000ug/ml  
Expires 11/30/2030

Prepared By Van Spohn 8/12/2021



# Certificate of Analysis

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31<sup>1</sup> and ISO Guide 35.<sup>2</sup>
2. Quality Standards: Phenova is accredited by A2LA to ISO 17034<sup>3</sup> and ISO/IEC 17025<sup>4</sup> as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at [www.phenova.com/documents](http://www.phenova.com/documents).
6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98<sup>5</sup> and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

## References:

<sup>1</sup> ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.

<sup>2</sup> ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.

<sup>3</sup> ISO 17034 – General Requirements for the Competence of Reference Material Producers.

<sup>4</sup> ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.

<sup>5</sup> ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer  
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material  
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



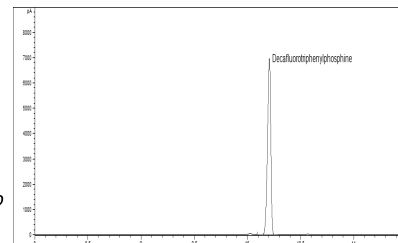
Chemical Testing Laboratory  
Certificate No. 2427.03



# Certificate of Analysis - Certified Reference Material

## Decafluorotriphenylphosphine solution

**Product no.:** 48724-U  
**Lot no.:** LRAD0628  
**Expiry Date:** October 2024  
**Manufacturing Date:** September 2021  
**Storage:** ROOM TEMPERATURE  
**Solvent/Matrix:** DICHLOROMETHANE  
**Certificate version:** LRAD0628.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: [www.sigma-aldrich.com](http://www.sigma-aldrich.com) for the most current version.)



### Certified Values:

| Analyte                 | Certified Value | Units | Raw Material Purity, % | Raw Material Lot |
|-------------------------|-----------------|-------|------------------------|------------------|
| DFTPP<br>CAS# 5074-71-5 | 25.2 ± 2.6      | mg/mL | 97.0                   | 10220909         |

### ASSAY Method

#### METHOD: GC (BELLEFONTE)

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness

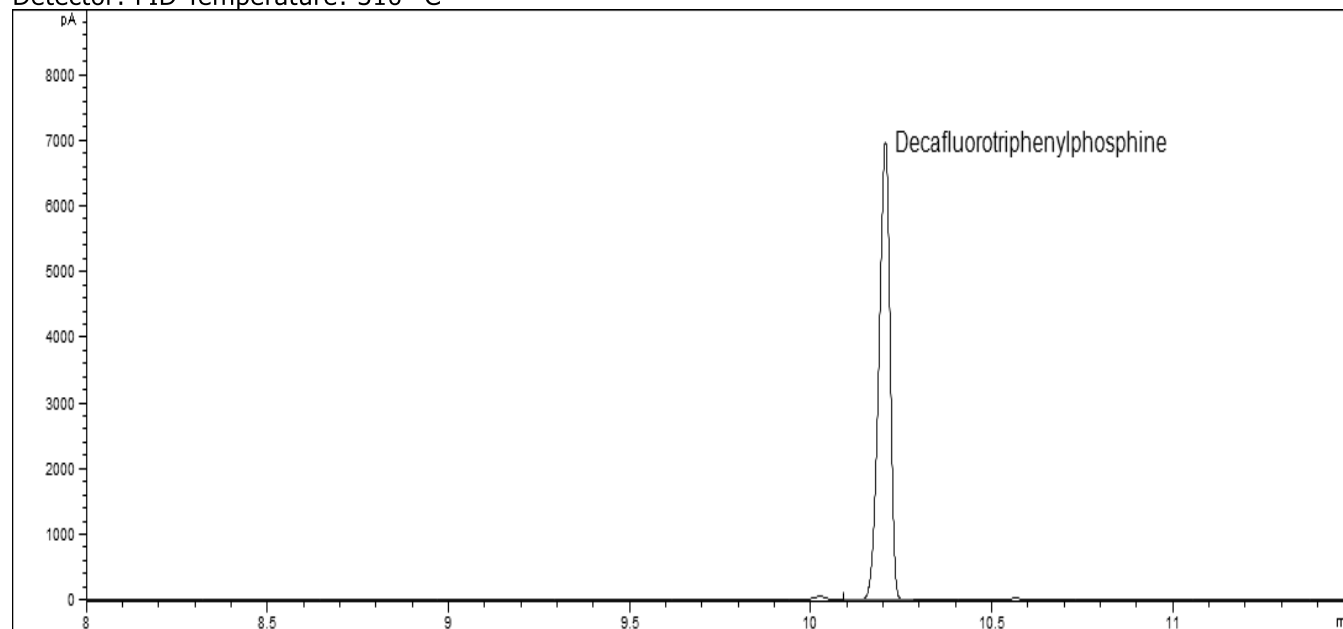
Carrier Gas: H<sub>2</sub> Flow Rate: 4.3 mL/min

Inlet Temperature: 250 °C Injection Volume: 1 µL

Injection Mode: 25:1

Temperature Program: 120 °C (Hold 0 min) @ 12 °C/min to 260 °C (Hold 0 min)

Detector: FID Temperature: 310 °C



**Elution details:**

| EO | RT(MIN) | ANALYTE                      |
|----|---------|------------------------------|
| 1  | 10.206  | Decafluorotriphenylphosphine |

**Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

**Measurement method:** Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

**Intended use:** Intended for R&D and Analytical Use only. Not for drug, household or other uses.

**Minimum sample size:** 1 µL

**Packaging:** 1 mL in amber ampule

**Instructions for handling and correct use:** Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

**Health and safety information:** All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

**Accreditation:** Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

**Certificate issue date:** 30-Sep-2021



Andy Ommen - QC Manager

Scott Stetler - QA Manager

**Details on metrological traceability:** This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

**Associated uncertainty:** Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

**Homogeneity assessment:** Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

**Stability assessment:**

Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

**Certificate of analysis revision history:**

| <b>Certificate version</b> | <b>Date</b> | <b>Reason for version</b> |
|----------------------------|-------------|---------------------------|
| LRAD0628.01                | 30-Sep-2021 | Original Release Date     |

**Disclaimer:** The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

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The life science business of Merck KGaA, Darmstadt, Germany  
operates as MilliporeSigma in the US and Canada.



# Certificate of Analysis

## BNAs - Sandy Loam 1

*Certified  
Reference  
Material*

### Description

Product ID CRM143-50G  
Lot LRAC8918  
Expiration Date January 2024  
Manufacturing Date January 2021  
Storage Conditions Refrigerate  
Solvent/Matrix SOIL

### Certified Values

| Analyte  | Units | Certified <sup>1,4</sup><br>Value |
|--|-------|-----------------------------------|
| 1,2,4-Trichlorobenzene                                     | µg/Kg | 1477 ± 181                        |
| 1,3-Dichlorobenzene (m-Dichlorobenzene)                    | µg/Kg | 1625 ± 292                        |
| 1-Chloronaphthalene  | µg/Kg | 2809 ± 84                         |
| 2,3-Dimethylphenol   | µg/Kg | 4552 ± 137                        |
| 2,4,5-Trichlorophenol                                      | µg/Kg | 3438 ± 245                        |
| 2,4,6-Trichlorophenol                                      | µg/Kg | 2194 ± 251                        |
| 2,4-Dichlorophenol   | µg/Kg | 6991 ± 394                        |
| 2,4-Dimethylphenol   | µg/Kg | 6357 ± 879                        |
| 2,4-Dinitrophenol  | µg/Kg | 2922 ± 523                        |
| 2,4-Dinitrotoluene (2,4-DNT)                               | µg/Kg | 3318 ± 442                        |
| 2,6-Dichlorophenol   | µg/Kg | 4578 ± 874                        |
| 2,6-Dimethylphenol   | µg/Kg | 7582 ± 228                        |
| 2-Chloronaphthalene  | µg/Kg | 2223 ± 168                        |
| 2-Chlorophenol   | µg/Kg | 1678 ± 202                        |
| 2-Methyl-4,6-dinitrophenol<br>(4,6-Dinitro-2-methylphenol) | µg/Kg | 5148 ± 685                        |
| 2-Methylphenol (o-Cresol)                                  | µg/Kg | 6004 ± 573                        |
| 2-Nitrophenol  | µg/Kg | 6456 ± 383                        |
| 3,4-Dimethylphenol   | µg/Kg | 7185 ± 216                        |
| 3+4-Methylphenol (m+p-Cresol)                              | µg/Kg | 8033 ± 1613                       |
| 4-Bromophenyl phenyl ether (BDE-3)                         | µg/Kg | 7169 ± 310                        |
| 4-Chloro-3-methylphenol                                    | µg/Kg | 2071 ± 110                        |
| 4-Chlorophenyl phenylether                                 | µg/Kg | 2052 ± 113                        |
| 4-Methylphenol (p-Cresol)                                  | µg/Kg | 6617 ± 1371                       |
| 4-Nitrophenol  | µg/Kg | 6812 ± 595                        |
| Acenaphthene   | µg/Kg | 5489 ± 380                        |



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## Description

Lot **LRAC8918**  
Expiration Date January 2024  
Manufacturing Date January 2021  
Storage Conditions Refrigerate  
Solvent/Matrix SOIL

|  |       |            |
|--|-------|------------|
| Acenaphthylene   | µg/Kg | 1948 ± 240 |
| Anthracene   | µg/Kg | 2866 ± 237 |
| Benzo(a)anthracene   | µg/Kg | 5751 ± 552 |
| Benzo(a)pyrene   | µg/Kg | 5902 ± 612 |
| Benzo(b)fluoranthene   | µg/Kg | 3010 ± 409 |
| Benzo(b+k)fluoranthene   | µg/Kg | 6534 ± 196 |
| Benzo(g,h,i)perylene   | µg/Kg | 1380 ± 136 |
| Benzo(k)fluoranthene   | µg/Kg | 2215 ± 237 |
| Butyl benzyl phthalate   | µg/Kg | 3511 ± 384 |
| Carbazole  | µg/Kg | 5412 ± 407 |
| Chrysene   | µg/Kg | 1477 ± 72  |
| Di(2-ethylhexyl) phthalate<br>(bis(2-Ethylhexyl)phthalate, DEHP) | µg/Kg | 2905 ± 321 |
| Dibenzo(a,h)anthracene   | µg/Kg | 3420 ± 302 |
| Dibenzofuran   | µg/Kg | 6130 ± 253 |
| Dimethyl phthalate   | µg/Kg | 4537 ± 250 |
| Di-n-butyl phthalate   | µg/Kg | 1721 ± 154 |
| Di-n-octyl phthalate   | µg/Kg | 2744 ± 288 |
| Fluoranthene   | µg/Kg | 2497 ± 222 |
| Fluorene   | µg/Kg | 3724 ± 222 |
| Hexachlorobutadiene  | µg/Kg | 1877 ± 245 |
| Indeno(1,2,3-cd) pyrene  | µg/Kg | 3914 ± 409 |
| Isophorone   | µg/Kg | 1615 ± 170 |
| Naphthalene  | µg/Kg | 4458 ± 480 |
| Nitrobenzene   | µg/Kg | 3539 ± 266 |
| n-Nitrosodimethylamine   | µg/Kg | 1580 ± 402 |
| n-Nitrosodiphenylamine   | µg/Kg | 2854 ± 379 |
| Pentachlorophenol  | µg/Kg | 3411 ± 358 |
| Phenanthrene   | µg/Kg | 5052 ± 385 |
| Phenol   | µg/Kg | 2660 ± 184 |
| Pyrene   | µg/Kg | 2964 ± 256 |
| Pyridine   | µg/Kg | 1008 ± 30  |

## Informational Values



# Certificate of Analysis

## BNAs - Sandy Loam 1

*Certified  
Reference  
Material*

### Description

**Product ID** CRM143-50G  
**Lot** LRAC8918  
**Expiration Date** January 2024  
**Manufacturing Date** January 2021  
**Storage Conditions** Refrigerate  
**Solvent/Matrix** SOIL

| Analyte  | Units | Suggested Acceptance Windows | Standard Deviation |
|--|-------|------------------------------|--------------------|
| 1,2,4-Trichlorobenzene                                     | µg/Kg | 148 to 2853                  | 459                |
| 1,3-Dichlorobenzene<br>(m-Dichlorobenzene)                 | µg/Kg | 163 to 3440                  | 605                |
| 1-Chloronaphthalene  | µg/Kg | 1123 to 4494                 | 562                |
| 2,3-Dimethylphenol   | µg/Kg | 1821 to 7284                 | 910                |
| 2,4,5-Trichlorophenol                                      | µg/Kg | 1003 to 5872                 | 811                |
| 2,4,6-Trichlorophenol                                      | µg/Kg | 640 to 3748                  | 518                |
| 2,4-Dichlorophenol   | µg/Kg | 2391 to 11591                | 1533               |
| 2,4-Dimethylphenol   | µg/Kg | 0.00 to 13959                | 2534               |
| 2,4-Dinitrophenol  | µg/Kg | 1169 to 4675                 | 584                |
| 2,4-Dinitrotoluene (2,4-DNT)                               | µg/Kg | 1248 to 5388                 | 690                |
| 2,6-Dichlorophenol   | µg/Kg | 1831 to 7324                 | 916                |
| 2,6-Dimethylphenol   | µg/Kg | 3033 to 12132                | 1516               |
| 2-Chloronaphthalene  | µg/Kg | 748 to 3699                  | 492                |
| 2-Chlorophenol   | µg/Kg | 415 to 2942                  | 421                |
| 2-Methyl-4,6-dinitrophenol<br>(4,6-Dinitro-2-methylphenol) | µg/Kg | 0.00 to 10347                | 1733               |
| 2-Methylphenol (o-Cresol)                                  | µg/Kg | 1306 to 10702                | 1566               |
| 2-Nitrophenol  | µg/Kg | 1534 to 11379                | 1641               |
| 3,4-Dimethylphenol   | µg/Kg | 2874 to 11495                | 1437               |
| 3+4-Methylphenol (m+p-Cresol)                              | µg/Kg | 4054 to 16218                | 2027               |
| 4-Bromophenyl phenyl ether (BDE-3)                         | µg/Kg | 2901 to 11437                | 1423               |
| 4-Chloro-3-methylphenol                                    | µg/Kg | 677 to 3464                  | 464                |
| 4-Chlorophenyl phenylether                                 | µg/Kg | 756 to 3348                  | 432                |
| 4-Methylphenol (p-Cresol)                                  | µg/Kg | 2647 to 10587                | 1323               |
| 4-Nitrophenol  | µg/Kg | 681 to 14762                 | 2650               |
| Acenaphthene   | µg/Kg | 2243 to 8736                 | 1082               |
| Acenaphthylene   | µg/Kg | 712 to 3183                  | 412                |
| Anthracene   | µg/Kg | 1218 to 4515                 | 550                |
| Benzo(a)anthracene   | µg/Kg | 2806 to 8696                 | 982                |
| Benzo(a)pyrene   | µg/Kg | 2512 to 9292                 | 1130               |
| Benzo(b)fluoranthene                                       | µg/Kg | 1197 to 4822                 | 604                |
| Benzo(b+k)fluoranthene                                     | µg/Kg | 2614 to 10454                | 1307               |



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## Description

Lot **LRAC8918**  
Expiration Date January 2024  
Manufacturing Date January 2021  
Storage Conditions Refrigerate  
Solvent/Matrix SOIL

|   |       |              |      |
|---|-------|--------------|------|
| Benzo(g,h,i)perylene  | µg/Kg | 489 to 2271  | 297  |
| Benzo(k)fluoranthene  | µg/Kg | 892 to 3537  | 441  |
| Butyl benzyl phthalate  | µg/Kg | 1255 to 5766 | 752  |
| Carbazole   | µg/Kg | 2032 to 8792 | 1127 |
| Chrysene  | µg/Kg | 669 to 2284  | 269  |
| Di(2-ethylhexyl) phthalate<br>(bis(2-Ethylhexyl)phthalate,<br>DEHP) | µg/Kg | 765 to 5045  | 713  |
| Dibenzo(a,h)anthracene  | µg/Kg | 1257 to 5583 | 721  |
| Dibenzofuran  | µg/Kg | 2766 to 9493 | 1121 |
| Dimethyl phthalate  | µg/Kg | 1842 to 7231 | 898  |
| Di-n-butyl phthalate  | µg/Kg | 495 to 2947  | 409  |
| Di-n-octyl phthalate  | µg/Kg | 690 to 4798  | 685  |
| Fluoranthene  | µg/Kg | 984 to 4009  | 504  |
| Fluorene  | µg/Kg | 1638 to 5810 | 695  |
| Hexachlorobutadiene   | µg/Kg | 425 to 3329  | 484  |
| Indeno(1,2,3-cd) pyrene   | µg/Kg | 870 to 6957  | 1015 |
| Isophorone  | µg/Kg | 437 to 2792  | 392  |
| Naphthalene   | µg/Kg | 1131 to 7784 | 1109 |
| Nitrobenzene  | µg/Kg | 1024 to 6054 | 838  |
| n-Nitrosodimethylamine  | µg/Kg | 632 to 2528  | 316  |
| n-Nitrosodiphenylamine  | µg/Kg | 1142 to 4567 | 571  |
| Pentachlorophenol   | µg/Kg | 341 to 7037  | 1209 |
| Phenanthrene  | µg/Kg | 2307 to 7798 | 915  |
| Phenol  | µg/Kg | 681 to 4639  | 660  |
| Pyrene  | µg/Kg | 1118 to 4810 | 615  |
| Pyridine  | µg/Kg | 403 to 1613  | 202  |

### Additional Information:

#### DESCRIPTION

The organic sample is a soil containing extractable BNAs for analysis by 8100, 8270, 8310 or equivalent methods.

This product consist of a 5 vials each containing 10g of soil for analysis of PAHs. Each vial is identical and has been tested how homogeneity. Only one vial is need for test the remaining vials are to be used for multiple methods or routine testing.

The soil has been sterilized to minimize degradation of the sample.

The sample has been sized to 100 mesh.

Required storage condition is 4°C.

The sample has been intentionally prepared with an apparent headspace.

#### STORAGE

The sample should be stored at 4°C. It has been determined to be stable for the duration of the expiration date.

After sub-sampling replace cap securely and store remaining sample at 4°C.

The shelf life of the product was determined by historic stability of similar CRM's. The expiration date may be extended based on stock and popularity upon successful stability testing by a 17025 accredited laboratory.

# Certificate of Analysis

## BNAs - Sandy Loam 1

*Certified  
Reference  
Material*

### Description

**Product ID** CRM143-50G  
**Lot** LRAC8918  
**Expiration Date** January 2024  
**Manufacturing Date** January 2021  
**Storage Conditions** Refrigerate  
**Solvent/Matrix** SOIL

Stability and shelf life after opening must be determined by the user, taking into account sampling frequency/volume and all local conditions.

### SAMPLE PREPARATION

Extract the complete contents of a single vial. Transfer entire contents of one vial to extraction vessel. Rinse vial and cap with extraction solvent.

Assume a 10g sample size for all calculations.

Note: Sample extracts and calibration solutions should be in the same solvent.

Report all results on a wet weight basis, do not correct for moisture.

NOTE: For method 8100 and using a packed column gas chromatographic method or cannot adequately resolve the following may coelute in four pairs of compounds: anthracene and phenanthrene; chrysene and benzo(a)anthracene; benzo(b)fluoranthene and benzo(k)fluoranthene; and dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene.

### SCOPE AND APPLICATION

The BNAs in Soil Certified Reference Material (CRM) consists of 5 10mL VOA vials, with a Teflon lined closures containing approximately 10 grams of soil, fortified with BNAs. Being a natural matrix waste sample the analyst is challenged by the same preparation problems, analytical interferences, etc. as is typical for similar matrices received by the laboratory for analysis.



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## Description

Lot **LRAC8918**  
Expiration Date January 2024  
Manufacturing Date January 2021  
Storage Conditions Refrigerate  
Solvent/Matrix SOIL

**1 Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.  
**4 Ucrm - Uncertainty** values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. K=2 unless specified. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

**k:** Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

**6 Analytical Value-** For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

**Traceability:** The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

**Homogeneity:** Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

**THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH ISO/IEC 17025:2017 (ANAB Cert AT-1467) and ISO 17034:2016 (ANAB Cert AR-1470).**



Andy Ommen - QC Manager



Mark Pooler - QA Supervisor

**Certification Date** January 05, 2021  
**Version** 0-152021





# Certificate of Analysis

**Product Name:** Toxic Substances Standard

**Product Number:** US-103N-1

**Lot Issue Date:** 25-May-2021

**Lot Number:** 0006609664

**Expiration Date:** 30-Jun-2024

**Description:**

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte               | CAS#        | Analyte Lot | Concentration ± Uncertainty |
|-----------------------|-------------|-------------|-----------------------------|
| benzoic acid          | 000065-85-0 | RM01884     | 2005 ± 10 µg/mL             |
| o-cresol              | 000095-48-7 | RM12877     | 2005 ± 10 µg/mL             |
| p-cresol              | 000106-44-5 | RM01988     | 2005 ± 10 µg/mL             |
| 2,4,5-trichlorophenol | 000095-95-4 | NT00344     | 2004 ± 10 µg/mL             |

**Matrix:** methylene chloride (dichloromethane)

**Storage Conditions:** Store at Room Temperature (15° to 30°C).

**Traceability:**

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

**Homogeneity:**

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Intended Use:**

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

**Hazards:**

Refer to the Safety Data Sheet on [www.agilent.com](http://www.agilent.com) for information regarding this RM.

*[Handwritten signature]*  
*5/11/22*

**K004539**

toxic sub mix#1

Solvent / Lot: methylene chloride

Prep: 5/11/2022 by JZ

Exp: 6/30/2024

Location:



ISO 17034 Cert  
No. AR-1936

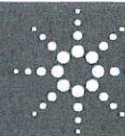
RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 2

[www.agilent.com/quality/](http://www.agilent.com/quality/)  
CSD-QA-015.1



ISO 17025 Cert  
No. AT-1937



## Reference Material Certificate

**Product Name:** Phenols Standard **Lot Number:** 0006648297  
**Product Number:** US-107N-1 **Lot Issue Date:** 17-Nov-2021  
**Storage Conditions:** Store at Room Temperature (15° to 30°C). **Expiration Date:** 31-Dec-2024

| Component Name             | CERTIFIED VALUES |                      |  | CAS#        | Analyte Lot |
|----------------------------|------------------|----------------------|--|-------------|-------------|
|                            | Concentration    | Expanded Uncertainty |  |             |             |
| 4-chloro-3-methylphenol    | 2006             | ± 10 µg/mL           |  | 000059-50-7 | RM01885     |
| 2-chlorophenol             | 2007             | ± 10 µg/mL           |  | 000095-57-8 | RM01871     |
| 2,4-dichlorophenol         | 2005             | ± 10 µg/mL           |  | 000120-83-2 | RM13878     |
| 2,4-dimethylphenol         | 2006             | ± 10 µg/mL           |  | 000105-67-9 | RM13009     |
| 2,4-dinitrophenol          | 2006             | ± 10 µg/mL           |  | 000051-28-5 | RM02112     |
| 2-methyl-4,6-dinitrophenol | 2005             | ± 10 µg/mL           |  | 000534-52-1 | RM02292     |
| 2-nitrophenol              | 2007             | ± 10 µg/mL           |  | 000088-75-5 | RM13445     |
| 4-nitrophenol              | 2006             | ± 10 µg/mL           |  | 000100-02-7 | RM03752     |
| pentachlorophenol          | 2006             | ± 10 µg/mL           |  | 000087-86-5 | RM02474     |
| phenol                     | 2006             | ± 10 µg/mL           |  | 000108-95-2 | RM11471     |
| 2,4,6-trichlorophenol      | 2006             | ± 10 µg/mL           |  | 000088-06-2 | RM18096     |

**Matrix:** methylene chloride (dichloromethane)

**Description:**

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

**Traceability:**

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

**Homogeneity:**

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

**Safety:**

Refer to the Safety Data Sheet on [www.agilent.com](http://www.agilent.com) for information regarding this analytical reference material.

*JZ* 5/11/22



## Reference Material Certificate

**Product Name:** PAH Standard**Lot Number:** 0006627349**Product Number:** US-106N-1**Lot Issue Date:** 17-Sep-2021**Storage Conditions:** Store at Room Temperature (15° to 30°C).**Expiration Date:** 31-Oct-2024

| Component Name         | CERTIFIED VALUES |                      |  | CAS#        | Analyte Lot |
|------------------------|------------------|----------------------|--|-------------|-------------|
|                        | Concentration    | Expanded Uncertainty |  |             |             |
| acenaphthene           | 2007             | ± 10 µg/mL           |  | 000083-32-9 | RM10879     |
| acenaphthylene         | 2004             | ± 10 µg/mL           |  | 000208-96-8 | RM10891     |
| anthracene             | 2006             | ± 10 µg/mL           |  | 000120-12-7 | RM14212     |
| benz[a]anthracene      | 2006             | ± 10 µg/mL           |  | 000056-55-3 | RM16072     |
| benzo[b]fluoranthene   | 2006             | ± 10 µg/mL           |  | 000205-99-2 | RM14571     |
| benzo[k]fluoranthene   | 2006             | ± 10 µg/mL           |  | 000207-08-9 | RM18376     |
| benzo[ghi]perylene     | 2006             | ± 10 µg/mL           |  | 000191-24-2 | RM15761     |
| benzo[a]pyrene         | 2006             | ± 10 µg/mL           |  | 000050-32-8 | RM17573     |
| chrysene               | 2007             | ± 10 µg/mL           |  | 000218-01-9 | RM13771     |
| dibenz[a,h]anthracene  | 2006             | ± 10 µg/mL           |  | 000053-70-3 | RM06786     |
| fluoranthene           | 2006             | ± 10 µg/mL           |  | 000206-44-0 | RM12277     |
| fluorene               | 2006             | ± 10 µg/mL           |  | 000086-73-7 | RM09441     |
| indeno[1,2,3-cd]pyrene | 2006             | ± 10 µg/mL           |  | 000193-39-5 | RM14192     |
| naphthalene            | 2007             | ± 10 µg/mL           |  | 000091-20-3 | RM10445     |
| phenanthrene           | 2005             | ± 10 µg/mL           |  | 000085-01-8 | RM10495     |
| pyrene                 | 2005             | ± 10 µg/mL           |  | 000129-00-0 | RM16126     |

**Matrix:** methylene chloride/benzene (1:1)**Description:**

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

**Traceability:**

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

**Homogeneity:**

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**K004541**

SVOA PAH STD 2000ug/ml

Solvent / Lot: DCM/BENZENE

Prep: 5/11/2022 by JZ

Exp: 10/31/2024

Location: Fridge 19

Page: 1 of 2

CSD-QA-015.1





Reference Materials Producer  
Cert #2495.01



## Certificate of Analysis



Chemical Testing  
Cert #2495.02

**Catalog Number:** ECS-A-030 **Lot No.** AA210126005  
**Description:** Base/Neutrals Mix 1  
**Matrix:** Methylene Chloride **Manufactured Date:** 1-26-2021  
**Expiration Date:** 1-26-2024

This SPEXOrganics® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

### Certified Compounds:

| <u>Compound</u>                   | <u>CAS #</u> | <u>Labeled</u> | <u>Purity</u> | <u>Certified†</u> | <u>Uncertainty</u> |
|-----------------------------------|--------------|----------------|---------------|-------------------|--------------------|
| 1,2,4-Trichlorobenzene            | 120-82-1     | 2000 µg/mL     | 99%           | 2010 µg/mL        | ± 50 µg/mL         |
| 1,2-Dichlorobenzene               | 95-50-1      | 2000 µg/mL     | 99%           | 2002 µg/mL        | ± 50 µg/mL         |
| 1,3-Dichlorobenzene               | 541-73-1     | 2000 µg/mL     | 98%           | 2021 µg/mL        | ± 51 µg/mL         |
| 1,4-Dichlorobenzene               | 106-46-7     | 2000 µg/mL     | 99%           | 2012 µg/mL        | ± 50 µg/mL         |
| 2,4-Dinitrotoluene                | 121-14-2     | 2000 µg/mL     | 97%           | 2006 µg/mL        | ± 50 µg/mL         |
| 2,6-Dinitrotoluene                | 606-20-2     | 2000 µg/mL     | 99.6%         | 2012 µg/mL        | ± 50 µg/mL         |
| 2-Chloronaphthalene               | 91-58-7      | 2000 µg/mL     | 98%           | 2004 µg/mL        | ± 50 µg/mL         |
| 4-Bromodiphenyl ether             | 101-55-3     | 2000 µg/mL     | 99%           | 2022 µg/mL        | ± 51 µg/mL         |
| 4-Chlorophenyl-phenyl ether       | 7005-72-3    | 2000 µg/mL     | 98%           | 2001 µg/mL        | ± 50 µg/mL         |
| Azobenzene                        | 103-33-3     | 2000 µg/mL     | 98%           | 2001 µg/mL        | ± 50 µg/mL         |
| Bis(2-chloro-1-methylethyl) ether | 108-60-1     | 2000 µg/mL     | 98.9%         | 2010 µg/mL        | ± 50 µg/mL         |
| bis(2-Chloroethoxy)methane        | 111-91-1     | 2000 µg/mL     | 97%           | 2001 µg/mL        | ± 50 µg/mL         |
| bis(2-Chloroethyl)ether           | 111-44-4     | 2000 µg/mL     | 99%           | 2002 µg/mL        | ± 50 µg/mL         |
| Bis(2-Ethylhexyl)phthalate        | 117-81-7     | 2000 µg/mL     | 99%           | 2003 µg/mL        | ± 50 µg/mL         |
| Butylbenzyl phthalate             | 85-68-7      | 2000 µg/mL     | 98%           | 2000 µg/mL        | ± 50 µg/mL         |
| Carbazole                         | 86-74-8      | 2000 µg/mL     | 95%           | 2009 µg/mL        | ± 50 µg/mL         |
| Di-n-butyl phthalate              | 84-74-2      | 2000 µg/mL     | 99%           | 2020 µg/mL        | ± 50 µg/mL         |
| Di-n-octyl phthalate              | 117-84-0     | 2000 µg/mL     | 98%           | 2000 µg/mL        | ± 50 µg/mL         |
| Diethyl phthalate                 | 84-66-2      | 2000 µg/mL     | 99.5%         | 2002 µg/mL        | ± 50 µg/mL         |
| Dimethyl phthalate                | 131-11-3     | 2000 µg/mL     | 99%           | 2006 µg/mL        | ± 50 µg/mL         |
| Hexachlorobenzene                 | 118-74-1     | 2000 µg/mL     | 99%           | 2003 µg/mL        | ± 50 µg/mL         |
| Hexachlorobutadiene               | 87-68-3      | 2000 µg/mL     | 97%           | 2003 µg/mL        | ± 50 µg/mL         |
| Hexachlorocyclopentadiene         | 77-47-4      | 2000 µg/mL     | 99%           | 2003 µg/mL        | ± 50 µg/mL         |
| Hexachloroethane                  | 67-72-1      | 2000 µg/mL     | 98%           | 2003 µg/mL        | ± 50 µg/mL         |
| Isophorone                        | 78-59-1      | 2000 µg/mL     | 97%           | 2003 µg/mL        | ± 50 µg/mL         |
| N-Nitrosodi-n-propylamine         | 621-64-7     | 2000 µg/mL     | 98%           | 2000 µg/mL        | ± 50 µg/mL         |
| N-Nitrosodiphenylamine            | 86-30-6      | 2000 µg/mL     | 97%           | 2001 µg/mL        | ± 50 µg/mL         |
| Nitrobenzene                      | 98-95-3      | 2000 µg/mL     | 99%           | 2001 µg/mL        | ± 50 µg/mL         |
| Pyridine                          | 110-86-1     | 2000 µg/mL     | 99%           | 2004 µg/mL        | ± 50 µg/mL         |
| N-Nitrosodimethylamine            | 62-75-9      | 2000 µg/mL     | 97%           | 2000 µg/mL        | ± 50 µg/mL         |

*Certificate of Reference Material*

|                        |                     |                           |             |
|------------------------|---------------------|---------------------------|-------------|
| <b>Catalog Number:</b> | ECS-A-030           | <b>Lot No.</b>            | AA210126005 |
| <b>Description:</b>    | Base/Neutrals Mix 1 | <b>Manufactured Date:</b> | 1-26-2021   |
| <b>Matrix:</b>         | Methylene Chloride  | <b>Expiration Date:</b>   | 1-26-2024   |

**Final Solution Verification:**

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-26-2021

Certifying Officer: Shannon Mave

# Report of Certification

**Catalog Number:** ECS-A-030 **Lot No.** AA210126005  
**Description:** Base/Neutrals Mix 1  
**Matrix:** Methylene Chloride **Manufactured Date:** 1-26-2021  
**Expiration Date:** 1-26-2024

**This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:**

- ISO 9001:2008: Quality management systems - Requirements - Certified by UL-DQS
- ISO 17025:2005: General Requirements for the Competence of Testing and Calibration Laboratories - Accredited by A2LA
- ISO Guide 34:2009: General Requirements for the Competence of Reference Material Producers - Accredited by A2LA
- ISO Guide 31:2000: Reference Materials - Contents of Certificates and Labels
- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement 1997
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference material producers
- ISO/REMCO N280

## **Storage Requirements:**

To ensure the stability of the product once it arrives in your laboratory, please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

## **Instructions for Use:**

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5 µL with a 25 µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

## **Material Source:**

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

## **Method of Preparation:**

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been used in all preparations.

## **Homogeneity:**

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

## **Statistical Estimator and Confidence Limits:**

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$  where X=certified value, U=expanded uncertainty, x=property value
- $U = k u_c$  where k=2 is the coverage factor at the 95% confidence level
- $u_c =$  combined standard uncertainty obtained by combining the individual compound standard uncertainty components  $u_i$ , where  $u_c = \sqrt{\sum u_i^2}$

## **Legal Notice:**

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breach of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

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Phone: 1-732-549-7144 • Fax 1-732-603-9647







Reference Materials Producer  
Cert #2495.01



## Certificate of Analysis



Chemical Testing  
Cert #2495.02

**Catalog Number:** ECS-A-030

**Lot No.** AA210126005

**Description:** Base/Neutrals Mix 1

**Manufactured Date:** 1-26-2021

**Matrix:** Methylene Chloride

**Expiration Date:** 1-26-2024

This SPEXOrganics® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

### Certified Compounds:

| <u>Compound</u>                   | <u>CAS #</u> | <u>Labeled</u> | <u>Purity</u> | <u>Certified†</u> | <u>Uncertainty</u> |
|-----------------------------------|--------------|----------------|---------------|-------------------|--------------------|
| 1,2,4-Trichlorobenzene            | 120-82-1     | 2000 µg/mL     | 99%           | 2010 µg/mL        | ± 50 µg/mL         |
| 1,2-Dichlorobenzene               | 95-50-1      | 2000 µg/mL     | 99%           | 2002 µg/mL        | ± 50 µg/mL         |
| 1,3-Dichlorobenzene               | 541-73-1     | 2000 µg/mL     | 98%           | 2021 µg/mL        | ± 51 µg/mL         |
| 1,4-Dichlorobenzene               | 106-46-7     | 2000 µg/mL     | 99%           | 2012 µg/mL        | ± 50 µg/mL         |
| 2,4-Dinitrotoluene                | 121-14-2     | 2000 µg/mL     | 97%           | 2006 µg/mL        | ± 50 µg/mL         |
| 2,6-Dinitrotoluene                | 606-20-2     | 2000 µg/mL     | 99.6%         | 2012 µg/mL        | ± 50 µg/mL         |
| 2-Chloronaphthalene               | 91-58-7      | 2000 µg/mL     | 98%           | 2004 µg/mL        | ± 50 µg/mL         |
| 4-Bromodiphenyl ether             | 101-55-3     | 2000 µg/mL     | 99%           | 2022 µg/mL        | ± 51 µg/mL         |
| 4-Chlorophenyl-phenyl ether       | 7005-72-3    | 2000 µg/mL     | 98%           | 2001 µg/mL        | ± 50 µg/mL         |
| Azobenzene                        | 103-33-3     | 2000 µg/mL     | 98%           | 2001 µg/mL        | ± 50 µg/mL         |
| Bis(2-chloro-1-methylethyl) ether | 108-60-1     | 2000 µg/mL     | 98.9%         | 2010 µg/mL        | ± 50 µg/mL         |
| bis(2-Chloroethoxy)methane        | 111-91-1     | 2000 µg/mL     | 97%           | 2001 µg/mL        | ± 50 µg/mL         |
| bis(2-Chloroethyl)ether           | 111-44-4     | 2000 µg/mL     | 99%           | 2002 µg/mL        | ± 50 µg/mL         |
| Bis(2-Ethylhexyl)phthalate        | 117-81-7     | 2000 µg/mL     | 99%           | 2003 µg/mL        | ± 50 µg/mL         |
| Butylbenzyl phthalate             | 85-68-7      | 2000 µg/mL     | 98%           | 2000 µg/mL        | ± 50 µg/mL         |
| Carbazole                         | 86-74-8      | 2000 µg/mL     | 95%           | 2009 µg/mL        | ± 50 µg/mL         |
| Di-n-butyl phthalate              | 84-74-2      | 2000 µg/mL     | 99%           | 2020 µg/mL        | ± 50 µg/mL         |
| Di-n-octyl phthalate              | 117-84-0     | 2000 µg/mL     | 98%           | 2000 µg/mL        | ± 50 µg/mL         |
| Diethyl phthalate                 | 84-66-2      | 2000 µg/mL     | 99.5%         | 2002 µg/mL        | ± 50 µg/mL         |
| Dimethyl phthalate                | 131-11-3     | 2000 µg/mL     | 99%           | 2006 µg/mL        | ± 50 µg/mL         |
| Hexachlorobenzene                 | 118-74-1     | 2000 µg/mL     | 99%           | 2003 µg/mL        | ± 50 µg/mL         |
| Hexachlorobutadiene               | 87-68-3      | 2000 µg/mL     | 97%           | 2003 µg/mL        | ± 50 µg/mL         |
| Hexachlorocyclopentadiene         | 77-47-4      | 2000 µg/mL     | 99%           | 2003 µg/mL        | ± 50 µg/mL         |
| Hexachloroethane                  | 67-72-1      | 2000 µg/mL     | 98%           | 2003 µg/mL        | ± 50 µg/mL         |
| Isophorone                        | 78-59-1      | 2000 µg/mL     | 97%           | 2003 µg/mL        | ± 50 µg/mL         |
| N-Nitrosodi-n-propylamine         | 621-64-7     | 2000 µg/mL     | 98%           | 2000 µg/mL        | ± 50 µg/mL         |
| N-Nitrosodiphenylamine            | 86-30-6      | 2000 µg/mL     | 97%           | 2001 µg/mL        | ± 50 µg/mL         |
| Nitrobenzene                      | 98-95-3      | 2000 µg/mL     | 99%           | 2001 µg/mL        | ± 50 µg/mL         |
| Pyridine                          | 110-86-1     | 2000 µg/mL     | 99%           | 2004 µg/mL        | ± 50 µg/mL         |
| N-Nitrosodimethylamine            | 62-75-9      | 2000 µg/mL     | 97%           | 2000 µg/mL        | ± 50 µg/mL         |

K004542



## Certificate of Reference Material

**Catalog Number:** ECS-A-030

**Lot No.** AA210126005

**Description:** Base/Neutrals Mix 1

**Matrix:** Methylene Chloride

**Manufactured Date:** 1-26-2021

**Expiration Date:** 1-26-2024

### **Final Solution Verification:**

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at [crmsales@spexcsp.com](mailto:crmsales@spexcsp.com).

Date of Certification: 1-26-2021

Certifying Officer: Shannon Nove





# Certificate of Analysis

**Product Name:** 1-Methylnaphthalene Standard

**Product Number:** EPA-1225-1

**Lot Issue Date:** 19-Jul-2021

**Lot Number:** 0006624769

**Expiration Date:** 31-Jul-2023

**Description:**

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte             | CAS#        | Analyte Lot | Concentration ± Uncertainty |
|---------------------|-------------|-------------|-----------------------------|
| 1-methylnaphthalene | 000090-12-0 | RM07712     | 999.3 ± 5.0 µg/mL           |

**Matrix:** methanol (methyl alcohol)

**Storage Conditions:** Store at Room Temperature (15° to 30°C).

**Traceability:**

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

**Homogeneity:**

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Intended Use:**

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

**Hazards:**

Refer to the Safety Data Sheet on [www.agilent.com](http://www.agilent.com) for information regarding this RM.

**Expiration of Certification:**

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

**Maintenance of Certification:**

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

**K004543**

1-Methylnaphthalene  
Solvent / Lot: MEOH  
Prep: 5/11/2022 by JZ  
Exp: 7/31/2023  
Location:

*[Handwritten signature]*  
*5/11/22*

**Sample lot approver:**

*[Handwritten signature]*  
Monica Bourgeois  
QMS Representative



ISO 17034 Cert  
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 1

[www.agilent.com/quality/](http://www.agilent.com/quality/)  
CSD-QA-015.1



ISO 17025 Cert  
No. AT-1937



# Certificate of Analysis

**Product Name:** Toxic Substances Standard

**Product Number:** US-104N-1

**Lot Issue Date:** 02-Jul-2021

**Lot Number:** 0006620643

**Expiration Date:** 31-Jul-2023

**Description:**

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte             | CAS#        | Analyte Lot | Concentration ± Uncertainty |
|---------------------|-------------|-------------|-----------------------------|
| aniline             | 000062-53-3 | RM12853     | 2005 ± 10 µg/mL             |
| benzyl alcohol      | 000100-51-6 | RM10547     | 2004 ± 10 µg/mL             |
| 4-chloroaniline     | 000106-47-8 | RM01886     | 2002 ± 10 µg/mL             |
| dibenzofuran        | 000132-64-9 | RM02077     | 2002 ± 10 µg/mL             |
| 2-methylnaphthalene | 000091-57-6 | RM01258     | 2006 ± 10 µg/mL             |
| 2-nitroaniline      | 000088-74-4 | RM02402     | 2003 ± 10 µg/mL             |
| 3-nitroaniline      | 000099-09-2 | RM02424     | 2003 ± 10 µg/mL             |
| 4-nitroaniline      | 000100-01-6 | RM02425     | 2003 ± 10 µg/mL             |

**Matrix:** methylene chloride (dichloromethane)

**Storage Conditions:** Store at Room Temperature (15° to 30°C).

**Traceability:**

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

**Homogeneity:**

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Intended Use:**

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

**K004544**

toxic sub mix#2

Solvent / Lot: methylene chloride

Prep: 5/11/2022 by JZ

Exp: 7/31/2023

Location:

*JZ* 05/11/22



ISO 17034 Cert  
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 2

[www.agilent.com/quality/](http://www.agilent.com/quality/)  
CSD-QA-015.1



ISO 17025 Cert  
No. AT-1937





CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 31493 Lot No.: A0181243
Description: CLP 04.1 BNA Surrogate Mix
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: October 31, 2025 Storage: 10°C or colder
Handling: Sonicate prior to use. Ship: Ambient

Handwritten signature and date: 05/11/22

K004545
CLP 04.1 BNA SURR MIX
Solvent / Lot: AO175316
Prep: 5/11/2022 by JZ
Exp: 10/20/2025
Location:

Table with 7 columns: Elution Order, Compound, CAS #, Purity, Weight, Concentration, and Method. Contains 7 rows of data for various compounds like 2-Fluorophenol, Phenol-d6, 2-Chlorophenol-d4, etc.

# Certificate of Analysis

**Produced by Phenova**

6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com  
Access your Safety Data Sheets and digital Certificates at [www.phenova.com/documents](http://www.phenova.com/documents).

## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101246

**Lot Number:** CL17953

**Description:** Benzoic Acid

**Certification Date:** January 31, 2022

**Storage:** 4 °C

**Expiration Date:** January 31, 2032

**Provided As:** 1 mL in 2 mL Ampoule in Methylene Chloride

*Andrea Gill*

Andrea Gill, Certified Reference Materials Manager

| Component    | CAS #   | Certified Value<br>µg/mL | Expanded Uncertainty |
|--------------|---------|--------------------------|----------------------|
| Benzoic acid | 65-85-0 | 2000                     | ± 2.714%             |

**K004603**

Benzoic Acid @2000ug/ml

Solvent / Lot: N/A

Prep: 5/13/2022 by JZ

Exp: 1/31/2032

Location: GC

*5/13/22*



Reference Material Producer  
Certificate No. 2427.02



phenova®  
Certified Reference Materials

A Phenomenex  
Company

Phenova is an accredited ISO/IEC 17034 Reference Material  
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory  
Certificate No. 2427.03

# Certificate of Analysis

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## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101244

**Lot Number:** CL17662

**Description:** Benzidines Standard

**Certification Date:** December 2, 2021

**Storage:** 4 °C

**Expiration Date:** November 30, 2031

**Provided As:** 1 mL in 2 mL Ampoule in Methylene Chloride

*Andrea Gill*

Andrea Gill, Certified Reference Materials Manager

| Component              | CAS #   | Certified Value<br>µg/mL | Expanded Uncertainty |
|------------------------|---------|--------------------------|----------------------|
| Benzidine              | 92-87-5 | 2000                     | ± 0.211%             |
| 3,3'-Dichlorobenzidine | 91-94-1 | 2000                     | ± 1.305%             |

**K004604**

Benzidines std @2000ug/ml  
Solvent / Lot: Mecl2  
Prep: 5/13/2022 by JZ  
Exp: 11/30/2031  
Location: GC

*JZ 5/13/22*



Reference Material Producer  
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material  
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



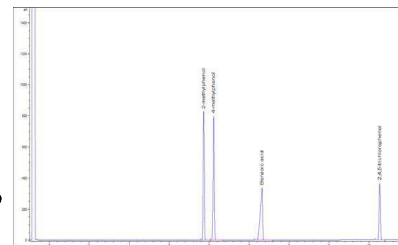
Chemical Testing Laboratory  
Certificate No. 2427.03



# Certificate of Analysis - Certified Reference Material

## EPA TCL Hazardous Substances Mix 1

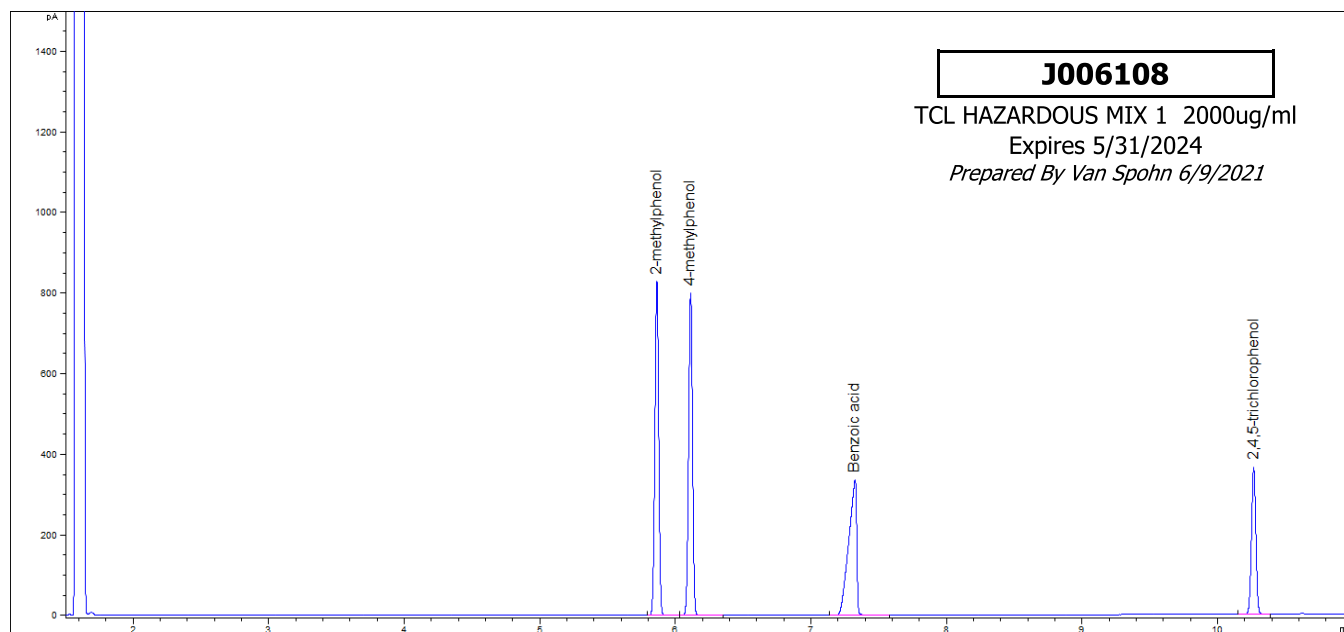
**Product no.:** 48907  
**Lot no.:** LRAC9610  
**Expiry Date:** May 2024  
**Manufacturing Date:** May 2021  
**Storage:** Refrigerate  
**Solvent/Matrix:** DICHLOROMETHANE  
**Certificate version:** LRAC9610.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: [www.sigma-aldrich.com](http://www.sigma-aldrich.com) for the most current version.)



### Certified Values:

| Analyte                               | Certified Value | Units | Raw Material Purity, % | Elution order | Raw Material Lot |
|---------------------------------------|-----------------|-------|------------------------|---------------|------------------|
| 2-METHYLPHENOL<br>CAS# 95-48-7        | 2004 ± 9        | µg/mL | 99.0                   | 1             | G1735A           |
| 4-METHYLPHENOL<br>CAS# 106-44-5       | 2004 ± 13       | µg/mL | 98.9                   | 2             | 06921MG          |
| BENZOIC ACID<br>CAS# 65-85-0          | 2012 ± 6        | µg/mL | 99.9                   | 3             | LC16514          |
| 2,4,5-TRICHLOROPHENOL<br>CAS# 95-95-4 | 2003 ± 6        | µg/mL | 99.9                   | 4             | JS00008          |

### Informational Values:



### Additional Information:

**Analytical Method Parameters:**  
 Column: Equity-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #98)  
 Carrier Gas: H<sub>2</sub>, Flow: 4.5 mL/min  
 Inlet Temperature: 170 °C, Injection Volume: 1 µL  
 Injection Mode: Split, Split Ratio: 20:1





Temperature Program: 80 °C @ 10 °C/min to 190 °C (Hold 5 min)  
Detector: FID  
Detector Temperature: 310 °C

**Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

**Measurement method:** Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

**Intended use:** Intended for R&D and Analytical Use only. Not for drug, household or other uses.

**Packaging:** 1 mL in amber ampule

**Instructions for handling and correct use:** Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

**Health and safety information:** All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

**Accreditation:** Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

**Certificate issue date:** 20-May-2021



Handwritten signature of Andy Ommen in black ink.

Andy Ommen - QC Manager

Handwritten signature of Mark Pooler in black ink.

Mark Pooler - QA Supervisor

**Details on metrological traceability:** This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

**Associated uncertainty:** Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

**Homogeneity assessment:** Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

**Stability assessment:**

Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

**Certificate of analysis revision history:**

| Certificate version | Date        | Reason for version    |
|---------------------|-------------|-----------------------|
| LRAC9610.01         | 20-May-2021 | Original Release Date |

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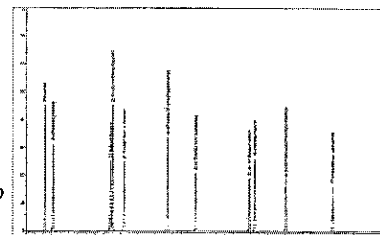
The life science business of Merck KGaA, Darmstadt, Germany  
operates as MilliporeSigma in the US and Canada.



# Certificate of Analysis - Certified Reference Material

## EPA TCL Phenols Mix

**Product no.:** 48904  
**Lot no.:** LRAD0139  
**Expiry Date:** July 2024  
**Manufacturing Date:** July 2021  
**Storage:** REFRIGERATE  
**Solvent/Matrix:** DICHLOROMETHANE  
**Certificate version:** LRAD0139.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: [www.sigma-aldrich.com](http://www.sigma-aldrich.com) for the most current version.)



### Certified Values:

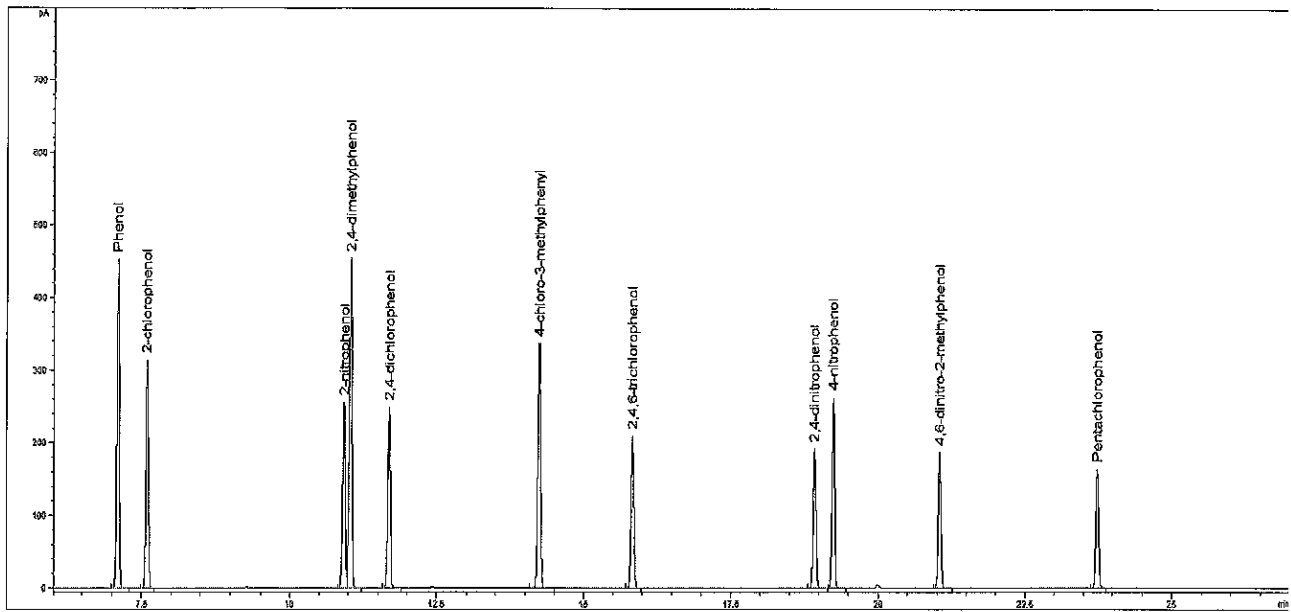
| Analyte                                     | Certified Value | Units | Raw Material Purity, % | Raw Material Lot |
|---|-----------------|-------|------------------------|------------------|
| 2-CHLOROPHENOL<br>CAS# 95-57-8              | 2001 ± 25       | µg/mL | 99.9                   | STBG3033V        |
| 2-NITROPHENOL<br>CAS# 88-75-5               | 1999 ± 18       | µg/mL | 99.3                   | 15905BB          |
| 2,4-DIMETHYLPHENOL<br>CAS# 105-67-9         | 2000 ± 14       | µg/mL | 99.2                   | 05421CO          |
| 2,4-DICHLOROPHENOL<br>CAS# 120-83-2         | 2000 ± 17       | µg/mL | 99.5                   | 03221TN          |
| 4-CHLORO-3-METHYLPHENOL<br>CAS# 59-50-7     | 2000 ± 5        | µg/mL | 99.9                   | JS00013          |
| 2,4,6-TRICHLOROPHENOL<br>CAS# 88-06-2       | 2002 ± 5        | µg/mL | 99.5                   | 04212PS          |
| 2,4-DINITROPHENOL<br>CAS# 51-28-5           | 2000 ± 28       | µg/mL | 66.9                   | STBJ5751         |
| 4-NITROPHENOL<br>CAS# 100-02-7              | 2000 ± 33       | µg/mL | 99.0                   | 04628LT          |
| 2-METHYL-4,6-DINITROPHENOL<br>CAS# 534-52-1 | 2000 ± 27       | µg/mL | 99.7                   | LC18338          |
| PENTACHLOROPHENOL<br>CAS# 87-86-5           | 1999 ± 25       | µg/mL | 97.9                   | MKCD2150         |

### ASSAY Method

#### J013597

TCL Phenols Mix 2000ug/ml  
 Solvent / Lot: LRAD0139  
 Prep: 12/30/2021 by VS  
 Exp: 7/31/2024  
 Location:





**METHOD: GC (Bellefonte Method )**

Column: SPB-5, 30 m x 0.53 mm I.D., 1.5 µm film thickness

Carrier Gas: H<sub>2</sub> Flow Rate: 4.5 mL/min

Inlet Temperature: 200 °C Injection Volume: 1.0 µL

Injection Mode: 25:1

Temperature Program: 80 °C (Hold 2 min) @ 6 °C/min to 260 °C (Hold 5 min)

Detector: FID Temperature: 310 °C

**Elution details:**

| EO | RT(MIN) | ANALYTE                    |
|----|---------|----------------------------|
| 1  | 7.095   | Phenol                     |
| 2  | 7.585   | 2-chlorophenol             |
| 3  | 10.925  | 2-nitrophenol              |
| 4  | 11.037  | 2,4-dimethylphenol         |
| 5  | 11.696  | 2,4-dichlorophenol         |
| 6  | 14.242  | 4-chloro-3-methylphenol    |
| 7  | 15.842  | 2,4,6-trichlorophenol      |
| 8  | 18.93   | 2,4-dinitrophenol          |
| 9  | 19.25   | 4-nitrophenol              |
| 10 | 21.05   | 4,6-dinitro-2-methylphenol |
| 11 | 23.752  | Pentachlorophenol          |

**Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

**Measurement method:** Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

**Intended use:** Intended for R&D and Analytical Use only. Not for drug, household or other uses.

**Packaging:** 1 mL in amber ampule

**Instructions for handling and correct use:** Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

**Health and safety information:** All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

**Accreditation:** Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

**Certificate issue date:** 12-Jul-2021



Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

**Details on metrological traceability:**

This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

**Associated uncertainty:**

Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

**Homogeneity assessment:**

Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

**Stability assessment:**

Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

**Certificate of analysis revision history:**

| <b>Certificate version</b> | <b>Date</b> | <b>Reason for version</b> |
|----------------------------|-------------|---------------------------|
| LRAD0139.01                | 12-Jul-2021 | Original Release Date     |

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**K007194**  
 CLP 04.1 BNA SURR MIX  
 Solvent / Lot: A0187400  
 Prep: 8/5/2022 by VS  
 Exp: 4/30/2026  
 Location:

IAL



# Certificate of Analysis



**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31493 **Lot No.:** A0187400  
**Description :** CLP 04.1 BNA Surrogate Mix  
CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** April 30, 2026 **Storage:** 10°C or colder  
**Handling:** Sonicate prior to use. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound                        | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) |       |             |             |
|---------------|---------------------------------|-----------------------------|--------------------------------------|-------|-------------|-------------|
|               |                                 |                             | µg/mL                                | µg/mL | µg/mL       | Gravimetric |
| 1             | 2-Fluorophenol                  | 1,508.0 µg/mL               | +/- 8.9571                           | µg/mL | Gravimetric |             |
|               | CAS # 367-12-4 (Lot STBJ3299)   |                             | +/- 44.0466                          | µg/mL | Unstressed  |             |
|               | Purity 99%                      |                             | +/- 53.4340                          | µg/mL | Stressed    |             |
| 2             | Phenol-d6                       | 1,510.0 µg/mL               | +/- 8.9689                           | µg/mL | Gravimetric |             |
|               | CAS # 13127-88-3 (Lot SL210831) |                             | +/- 44.1050                          | µg/mL | Unstressed  |             |
|               | Purity 99%                      |                             | +/- 53.5049                          | µg/mL | Stressed    |             |
| 3             | 2-Chlorophenol-d4               | 1,512.0 µg/mL               | +/- 8.9808                           | µg/mL | Gravimetric |             |
|               | CAS # 93951-73-6 (Lot PR-30568) |                             | +/- 44.1635                          | µg/mL | Unstressed  |             |
|               | Purity 99%                      |                             | +/- 53.5758                          | µg/mL | Stressed    |             |
| 4             | 1,2-Dichlorobenzene-d4          | 1,004.0 µg/mL               | +/- 5.9635                           | µg/mL | Gravimetric |             |
|               | CAS # 2199-69-1 (Lot PR-32597)  |                             | +/- 29.3255                          | µg/mL | Unstressed  |             |
|               | Purity 99%                      |                             | +/- 35.5754                          | µg/mL | Stressed    |             |
| 5             | Nitrobenzene-d5                 | 1,004.0 µg/mL               | +/- 5.9635                           | µg/mL | Gravimetric |             |
|               | CAS # 4165-60-0 (Lot PR-29940A) |                             | +/- 29.3255                          | µg/mL | Unstressed  |             |
|               | Purity 99%                      |                             | +/- 35.5754                          | µg/mL | Stressed    |             |
| 6             | 2-Fluorobiphenyl                | 1,004.0 µg/mL               | +/- 5.9635                           | µg/mL | Gravimetric |             |
|               | CAS # 321-60-8 (Lot 00021384)   |                             | +/- 29.3255                          | µg/mL | Unstressed  |             |
|               | Purity 99%                      |                             | +/- 35.5754                          | µg/mL | Stressed    |             |
| 7             | 2,4,6-Tribromophenol            | 1,502.0 µg/mL               | +/- 8.9214                           | µg/mL | Gravimetric |             |
|               | CAS # 118-79-6 (Lot MKCJ7664)   |                             | +/- 43.8714                          | µg/mL | Unstressed  |             |
|               | Purity 99%                      |                             | +/- 53.2214                          | µg/mL | Stressed    |             |

|   |                 |                |               |             |       |             |
|---|-----------------|----------------|---------------|-------------|-------|-------------|
| 8 | p-Terphenyl-d14 |                | 1,002.0 µg/mL | +/- 5.9516  | µg/mL | Gravimetric |
|   | CAS # 1718-51-0 | (Lot PR-30504) |               | +/- 29.2671 | µg/mL | Unstressed  |
|   | Purity 99%      |                |               | +/- 35.5046 | µg/mL | Stressed    |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

**Tech Tips:**

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

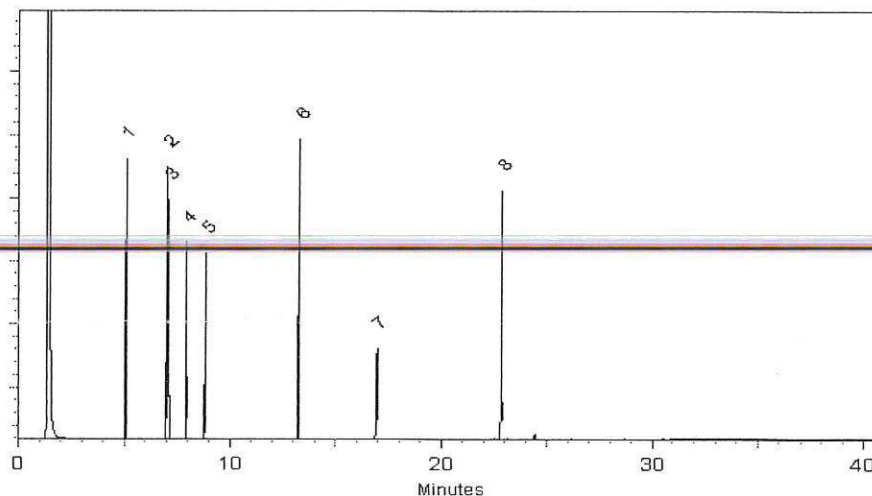
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Bryan Snyder*  
Bryan Snyder - Operations Tech I

**Date Mixed:** 17-Jul-2022      **Balance:** 1128353505

*Christie Mills*  
Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 21-Jul-2022

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ $\mu$ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us) for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions  | Standard Conditions | Non-Standard Conditions |
|---|---------------------|-------------------------|
| 25°C Nominal (Room Temperature)                           | < 60°C              | ≥ 60°C up to 7 days     |
| 10°C or colder (Refrigerate)                              | < 40°C              | ≥ 40°C up to 7 days     |
| 0°C or colder (Freezer)<br>-20°C or colder (Deep Freezer) | < 25°C              | ≥ 25°C up to 7 days     |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us).
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



# Certificate of Analysis

**Produced by Phenova**

6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com  
Access your Safety Data Sheets and digital Certificates at [www.phenova.com/documents](http://www.phenova.com/documents).

## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101444

**Lot Number:** CL18355

**Description:** 8270 Calibration Standard

**Certification Date:** July 25, 2022

**Storage:** -18 °C

**Expiration Date:** August 31, 2023

**Provided As:** 1 mL in 2 mL Ampoule in MeCl<sub>2</sub>/Methanol (97:3)

**K007995**

SVOA-8270 LCS MIX 1000ug/ml

Solvent / Lot: N/A

Prep: 8/29/2022 by JZ

Exp: 8/31/2023

Location: FREEZER 44



Aaron Dukes, Certified Reference Materials Manager

| Component                    | CAS #    | Certified Value<br>µg/mL | Expanded Uncertainty |
|------------------------------|----------|--------------------------|----------------------|
| Acenaphthene                 | 83-32-9  | 1000                     | ± 0.300%             |
| Acenaphthylene               | 208-96-8 | 1000                     | ± 0.225%             |
| Anthracene                   | 120-12-7 | 1000                     | ± 6.858%             |
| Azobenzene                   | 103-33-3 | 1000                     | ± 0.224%             |
| Benzo(a)anthracene           | 56-55-3  | 1000                     | ± 0.247%             |
| Benzo(a)pyrene               | 50-32-8  | 1000                     | ± 0.270%             |
| Benzo(b)fluoranthene         | 205-99-2 | 1000                     | ± 0.635%             |
| Benzo(k)fluoranthene         | 207-08-9 | 1000                     | ± 0.682%             |
| Benzo(g,h,i)perylene         | 191-24-2 | 1000                     | ± 0.272%             |
| Benzyl alcohol               | 100-51-6 | 1000                     | ± 0.231%             |
| Benzyl butyl phthalate       | 85-68-7  | 1000                     | ± 0.480%             |
| bis(2-Chloroethoxy)methane   | 111-91-1 | 1000                     | ± 0.479%             |
| bis(2-Chloroethyl) ether     | 111-44-4 | 1000                     | ± 0.479%             |
| bis(2-Chloroisopropyl) ether | 108-60-1 | 1000                     | ± 0.550%             |
| bis(2-Ethylhexyl) adipate    | 103-23-1 | 1000                     | ± 0.479%             |
| bis(2-Ethylhexyl) phthalate  | 117-81-7 | 1000                     | ± 0.479%             |
| 4-Bromophenyl phenyl ether   | 101-55-3 | 1000                     | ± 0.479%             |
| Carbazole                    | 86-74-8  | 1000                     | ± 0.146%             |

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| Component                   | CAS #     | Certified Value<br>µg/mL | Expanded Uncertainty |
|-----------------------------|-----------|--------------------------|----------------------|
| 4-Chloroaniline             | 106-47-8  | 1000                     | ± 0.300%             |
| 4-Chloro-3-methylphenol     | 59-50-7   | 1000                     | ± 0.545%             |
| 2-Chloronaphthalene         | 91-58-7   | 1000                     | ± 0.224%             |
| 2-Chlorophenol              | 95-57-8   | 1000                     | ± 0.507%             |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | 1000                     | ± 0.479%             |
| Chrysene                    | 218-01-9  | 1000                     | ± 0.145%             |
| Dibenz(a,h)anthracene       | 53-70-3   | 1000                     | ± 1.058%             |
| Dibenzofuran                | 132-64-9  | 1000                     | ± 0.302%             |
| Di-n-butyl phthalate        | 84-74-2   | 1000                     | ± 0.518%             |
| 1,2-Dichlorobenzene         | 95-50-1   | 1000                     | ± 0.247%             |
| 1,3-Dichlorobenzene         | 541-73-1  | 1000                     | ± 0.225%             |
| 1,4-Dichlorobenzene         | 106-46-7  | 1000                     | ± 0.224%             |
| 2,4-Dichlorophenol          | 120-83-2  | 1000                     | ± 0.545%             |
| Diethyl phthalate           | 84-66-2   | 1000                     | ± 0.518%             |
| 2,4-Dimethylphenol          | 105-67-9  | 1000                     | ± 0.507%             |
| Dimethyl phthalate          | 131-11-3  | 1000                     | ± 0.518%             |
| 1,2-Dinitrobenzene          | 528-29-0  | 1000                     | ± 0.361%             |
| 1,3-Dinitrobenzene          | 99-65-0   | 1000                     | ± 0.300%             |
| 1,4-Dinitrobenzene          | 100-25-4  | 1000                     | ± 0.242%             |
| 2,4-Dinitrophenol           | 51-28-5   | 1000                     | ± 0.545%             |
| 2,4-Dinitrotoluene          | 121-14-2  | 1000                     | ± 1.128%             |

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**Catalog No.:** AL0-101444

**Lot Number:** CL18355

**Description:** 8270 Calibration Standard

**Certification Date:** July 25, 2022

**Storage:** -18 °C

**Expiration Date:** August 31, 2023

**Provided As:** 1 mL in 2 mL Ampoule in MeCl<sub>2</sub>/Methanol (97:3)

| Component                  | CAS #    | Certified Value<br>µg/mL | Expanded Uncertainty |
|----------------------------|----------|--------------------------|----------------------|
| 2,6-Dinitrotoluene         | 606-20-2 | 1000                     | ± 0.224%             |
| Di-n-octyl phthalate       | 117-84-0 | 1000                     | ± 0.486%             |
| Fluoranthene               | 206-44-0 | 1000                     | ± 0.224%             |
| Fluorene                   | 86-73-7  | 1000                     | ± 0.224%             |
| Hexachlorobenzene          | 118-74-1 | 1000                     | ± 0.152%             |
| Hexachlorobutadiene        | 87-68-3  | 1000                     | ± 0.746%             |
| Hexachlorocyclopentadiene  | 77-47-4  | 1000                     | ± 0.153%             |
| Hexachloroethane           | 67-72-1  | 1000                     | ± 0.300%             |
| Indeno(1,2,3-cd)pyrene     | 193-39-5 | 1000                     | ± 0.883%             |
| Isophorone                 | 78-59-1  | 1000                     | ± 0.145%             |
| 2-Methyl-4,6-dinitrophenol | 534-52-1 | 1000                     | ± 0.508%             |
| 1-Methylnaphthalene        | 90-12-0  | 1000                     | ± 0.479%             |
| 2-Methylnaphthalene        | 91-57-6  | 1000                     | ± 0.487%             |
| 2-Methylphenol             | 95-48-7  | 1000                     | ± 0.545%             |
| 3-Methylphenol             | 108-39-4 | 500                      | ± 0.279%             |
| 4-Methylphenol             | 106-44-5 | 500                      | ± 0.399%             |
| Naphthalene                | 91-20-3  | 1000                     | ± 0.226%             |
| 2-Nitroaniline             | 88-74-4  | 1000                     | ± 0.224%             |
| 3-Nitroaniline             | 99-09-2  | 1000                     | ± 0.235%             |
| 4-Nitroaniline             | 100-01-6 | 1000                     | ± 0.300%             |
| Nitrobenzene               | 98-95-3  | 1000                     | ± 0.300%             |

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## Certified Reference Material

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**Catalog No.:** AL0-101444      **Lot Number:** CL18355  
**Description:** 8270 Calibration Standard      **Certification Date:** July 25, 2022  
**Storage:** -18 °C      **Expiration Date:** August 31, 2023  
**Provided As:** 1 mL in 2 mL Ampoule in MeCl<sub>2</sub>/Methanol (97:3)

| Component                 | CAS #    | Certified Value<br>µg/mL | Expanded Uncertainty |
|---------------------------|----------|--------------------------|----------------------|
| 2-Nitrophenol             | 88-75-5  | 1000                     | ± 0.514%             |
| 4-Nitrophenol             | 100-02-7 | 1000                     | ± 0.519%             |
| N-Nitrosodimethylamine    | 62-75-9  | 1000                     | ± 0.503%             |
| N-Nitrosodiphenylamine    | 86-30-6  | 1000                     | ± 0.476%             |
| N-Nitrosodi-n-propylamine | 621-64-7 | 1000                     | ± 0.461%             |
| Pentachlorophenol         | 87-86-5  | 1000                     | ± 0.202%             |
| Phenanthrene              | 85-01-8  | 1000                     | ± 0.145%             |
| Phenol                    | 108-95-2 | 1000                     | ± 0.545%             |
| Pyrene                    | 129-00-0 | 1000                     | ± 0.147%             |
| Pyridine                  | 110-86-1 | 1000                     | ± 0.503%             |
| 2,3,4,6-Tetrachlorophenol | 58-90-2  | 1000                     | ± 0.247%             |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | 1000                     | ± 0.247%             |
| 1,2,4-Trichlorobenzene    | 120-82-1 | 1000                     | ± 0.224%             |
| 2,4,5-Trichlorophenol     | 95-95-4  | 1000                     | ± 0.507%             |
| 2,4,6-Trichlorophenol     | 88-06-2  | 1000                     | ± 0.509%             |

**Notes:** The proper chemical name for Bis(2-Chloroisopropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.



Reference Material Producer  
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material  
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory  
Certificate No. 2427.03



# Certificate of Analysis

## Produced by Phenova

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Access your Safety Data Sheets and digital Certificates at [www.phenova.com/documents](http://www.phenova.com/documents).

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31<sup>1</sup> and ISO Guide 35.<sup>2</sup>
2. Quality Standards: Phenova is accredited by A2LA to ISO 17034<sup>3</sup> and ISO/IEC 17025<sup>4</sup> as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at [www.phenova.com/documents](http://www.phenova.com/documents).
6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98<sup>5</sup> and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$u_{CRM} = \sqrt{u_M^2 + u_H^2 + u_{LTS}^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

## References:

<sup>1</sup> ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.

<sup>2</sup> ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.

<sup>3</sup> ISO 17034 – General Requirements for the Competence of Reference Material Producers.

<sup>4</sup> ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.

<sup>5</sup> ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

# Certificate of Composition - Analytical Standard

## BASE STOCK

**Product no.:** 22523051  
**Lot no.:** LRAD2751  
**Expiry Date:** June 2024  
**Manufacturing Date:** June 2022  
**Storage:** REFRIGERATE  
**Solvent/Matrix:** DICHLOROMETHANE  
**Certificate version:** LRAD2751.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: [www.sigma-aldrich.com](http://www.sigma-aldrich.com) for the most current version.)*

| Analyte   | Assigned Value | Units | Raw Material Purity, % | Raw Material Lot |
|---|----------------|-------|------------------------|------------------|
| 3,3'-DICHLOROBENZIDINE, 100MG, NEAT<br>CAS# 91-94-1 | 799            | µg/mL | 99.8                   | LRAD2376         |
| 2,4-DINITROTOLUENE<br>CAS# 121-14-2                 | 801            | µg/mL | 97.8                   | LB46632          |
| 2,6-DINITROTOLUENE<br>CAS# 606-20-2                 | 800            | µg/mL | 99.2                   | 11231AN          |
| HEXACHLOROCYCLOPENTADIENE<br>CAS# 77-47-4           | 800            | µg/mL | 96.0                   | LB95525          |
| N-NITROSODIMETHYLAMINE<br>CAS# 62-75-9              | 800            | µg/mL | 95.0                   | 2019-030598<br>5 |
| PERYLENE<br>CAS# 198-55-0                           | 200            | µg/mL | 99.6                   | 04101PG          |
| ANILINE<br>CAS# 62-53-3                             | 800            | µg/mL | 99.9                   | LA41596          |
| 4-CHLOROANILINE<br>CAS# 106-47-8                    | 800            | µg/mL | 100.0                  | MKBZ6909V        |
| 2-NITROANILINE<br>CAS# 88-74-4                      | 799            | µg/mL | 99.9                   | 07411KN          |
| 3-NITROANILINE<br>CAS# 99-09-2                      | 800            | µg/mL | 99.9                   | LC09264          |
| 4-NITROANILINE<br>CAS# 100-01-6                     | 800            | µg/mL | 99.9                   | 15609AA          |
| PYRIDINE (LOW WATER)<br>CAS# 110-86-1               | 800            | µg/mL | 100.0                  | SHBJ9218         |

**Measurement method:** Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

**Intended use:** Intended for R&D and Analytical Use only. Not for drug, household or other uses.

**Packaging:** 1 mL in amber ampule

**Instructions for handling and correct use:** Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user's location. Open slowly and carefully to avoid dispersion of the material.





**Health and safety information:**

All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

**Certificate issue date:**

03 JUN 2022



Andy Ommen - QC Manager



Scott Stetler - QA Manager

**Certificate of analysis revision history:**

| Certificate version | Date        | Reason for version    |
|---------------------|-------------|-----------------------|
| LRAD2751.01         | 03 JUN 2022 | Original Release Date |

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The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.



# Certificate of Composition - Analytical Standard

## ACID STOCK

**Product no.:** 22523046  
**Lot no.:** LRAD2750  
**Expiry Date:** June 2024  
**Manufacturing Date:** June 2022  
**Storage:** REFRIGERATE  
**Solvent/Matrix:** DICHLOROMETHANE  
**Certificate version:** LRAD2750.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: [www.sigma-aldrich.com](http://www.sigma-aldrich.com) for the most current version.)

| Analyte                                     | Assigned Value | Units | Raw Material Purity, % | Raw Material Lot |
|---|----------------|-------|------------------------|------------------|
| 2,4-DIMETHYLPHENOL<br>CAS# 105-67-9         | 800            | µg/mL | 99.9                   | LB88935          |
| 2,4-DICHLOROPHENOL<br>CAS# 120-83-2         | 800            | µg/mL | 100.0                  | BCBZ6787         |
| 2,4,5-TRICHLOROPHENOL<br>CAS# 95-95-4       | 801            | µg/mL | 99.9                   | JS00008          |
| 2,4-DINITROPHENOL<br>CAS# 51-28-5           | 1799           | µg/mL | 66.9                   | STBJ5751         |
| 2,4,6-TRICHLOROPHENOL<br>CAS# 88-06-2       | 800            | µg/mL | 98.7                   | LB82983          |
| 4-CHLORO-3-METHYLPHENOL<br>CAS# 59-50-7     | 800            | µg/mL | 100.0                  | BCCD4461         |
| 4-NITROPHENOL<br>CAS# 100-02-7              | 800            | µg/mL | 100.0                  | MKCN1089         |
| 2-METHYL-4,6-DINITROPHENOL<br>CAS# 534-52-1 | 1800           | µg/mL | 100.0                  | BCBX5762         |
| PENTACHLOROPHENOL<br>CAS# 87-86-5           | 800            | µg/mL | 99.0                   | 23614-01         |
| BENZOIC ACID<br>CAS# 65-85-0                | 1800           | µg/mL | 99.9                   | LC16514          |

**Measurement method:** Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

**Intended use:** Intended for R&D and Analytical Use only. Not for drug, household or other uses.

**Packaging:** 1 mL in amber ampule

**Instructions for handling and correct use:** Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user's location. Open slowly and carefully to avoid dispersion of the material.

**Health and safety information:** All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.



Certificate issue date: 03 JUN 2022



Andy Ommen - QC Manager



Scott Stetler - QA Manager

**Certificate of analysis revision history:**

| Certificate version | Date        | Reason for version    |
|---------------------|-------------|-----------------------|
| LRAD2750.01         | 03 JUN 2022 | Original Release Date |

**Disclaimer:** The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

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## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101244

**Lot Number:** CL18939

**Description:** Benzidines Standard

**Certification Date:** September 7, 2022

**Storage:** 4 °C

**Expiration Date:** August 31, 2032

**Provided As:** 1 mL in 2 mL Ampoule in Methylene Chloride



Aaron Dukes, Certified Reference Materials Manager

| Component              | CAS #   | Certified Value<br>µg/mL | Expanded Uncertainty |
|------------------------|---------|--------------------------|----------------------|
| Benzidine              | 92-87-5 | 2000                     | ± 3.812%             |
| 3,3'-Dichlorobenzidine | 91-94-1 | 2000                     | ± 1.419%             |

### L001288

Benzidines std @2000ug/ml  
Solvent / Lot: CL18939  
Prep: 2/7/2023 by VS  
Exp: 8/31/2032  
Location: GC



Reference Material Producer  
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material  
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory  
Certificate No. 2427.03

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## Certified Reference Material

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**Catalog No.:** AL0-101443

**Lot Number:** CL18741

**Description:** Aniline

**Certification Date:** July 21, 2022

**Storage:** 4 °C

**Expiration Date:** July 31, 2030

**Provided As:** 1 mL in 2 mL Ampoule in Methylene Chloride



Aaron Duker, Certified Reference Materials Manager

| Component | CAS #   | Certified Value<br>µg/mL | Expanded Uncertainty |
|-----------|---------|--------------------------|----------------------|
| Aniline   | 62-53-3 | 1000                     | ± 1.719%             |

**L001290**

Aniline-1000ug/mL  
Solvent / Lot: CL18741  
Prep: 2/7/2023 by VS  
Exp: 7/31/2030  
Location: GC



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## Certified Reference Material

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**Catalog No.:** AL0-101444

**Lot Number:** CL18811

**Description:** 8270 Calibration Standard

**Certification Date:** August 9, 2022

**Storage:** -18 °C

**Expiration Date:** November 30, 2023

**Provided As:** 1 mL in 2 mL Ampoule in MeCl<sub>2</sub>/Methanol (97:3)



Aaron Dukes, Certified Reference Materials Manager

### L001291

SVOA-8270 LCS MIX 1000ug/ml

Solvent / Lot: CL18811

Prep: 2/7/2023 by VS

Exp: 11/30/2023

Location: FREEZER 44

| Component                    | CAS #    | µg/mL | Expanded Uncertainty |
|------------------------------|----------|-------|----------------------|
| Acenaphthene                 | 83-32-9  | 1000  | ± 1.643%             |
| Acenaphthylene               | 208-96-8 | 1000  | ± 1.317%             |
| Anthracene                   | 120-12-7 | 1000  | ± 2.136%             |
| Azobenzene                   | 103-33-3 | 1000  | ± 1.630%             |
| Benzo(a)anthracene           | 56-55-3  | 1000  | ± 2.372%             |
| Benzo(a)pyrene               | 50-32-8  | 1000  | ± 3.028%             |
| Benzo(b)fluoranthene         | 205-99-2 | 1000  | ± 2.377%             |
| Benzo(k)fluoranthene         | 207-08-9 | 1000  | ± 2.286%             |
| Benzo(g,h,i)perylene         | 191-24-2 | 1000  | ± 2.561%             |
| Benzyl alcohol               | 100-51-6 | 1000  | ± 1.803%             |
| Benzyl butyl phthalate       | 85-68-7  | 1000  | ± 1.855%             |
| bis(2-Chloroethoxy)methane   | 111-91-1 | 1000  | ± 1.626%             |
| bis(2-Chloroethyl) ether     | 111-44-4 | 1000  | ± 1.776%             |
| bis(2-Chloroisopropyl) ether | 108-60-1 | 1000  | ± 2.406%             |
| bis(2-Ethylhexyl) adipate    | 103-23-1 | 1000  | ± 2.415%             |
| bis(2-Ethylhexyl) phthalate  | 117-81-7 | 1000  | ± 2.350%             |
| 4-Bromophenyl phenyl ether   | 101-55-3 | 1000  | ± 1.708%             |
| Carbazole                    | 86-74-8  | 1000  | ± 1.844%             |



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**Catalog No.:** AL0-101444

**Lot Number:** CL18811

**Description:** 8270 Calibration Standard

**Certification Date:** August 9, 2022

**Storage:** -18 °C

**Expiration Date:** November 30, 2023

**Provided As:** 1 mL in 2 mL Ampoule in MeCl<sub>2</sub>/Methanol (97:3)

| Component                   | CAS #     | Certified Value<br>µg/mL | Expanded Uncertainty |
|-----------------------------|-----------|--------------------------|----------------------|
| 4-Chloroaniline             | 106-47-8  | 1000                     | ± 2.831%             |
| 4-Chloro-3-methylphenol     | 59-50-7   | 1000                     | ± 1.571%             |
| 2-Chloronaphthalene         | 91-58-7   | 1000                     | ± 2.022%             |
| 2-Chlorophenol              | 95-57-8   | 1000                     | ± 2.001%             |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | 1000                     | ± 1.634%             |
| Chrysene                    | 218-01-9  | 1000                     | ± 2.358%             |
| Dibenz(a,h)anthracene       | 53-70-3   | 1000                     | ± 2.452%             |
| Dibenzofuran                | 132-64-9  | 1000                     | ± 0.310%             |
| Di-n-butyl phthalate        | 84-74-2   | 1000                     | ± 2.347%             |
| 1,2-Dichlorobenzene         | 95-50-1   | 1000                     | ± 1.803%             |
| 1,3-Dichlorobenzene         | 541-73-1  | 1000                     | ± 1.808%             |
| 1,4-Dichlorobenzene         | 106-46-7  | 1000                     | ± 1.503%             |
| 2,4-Dichlorophenol          | 120-83-2  | 1000                     | ± 1.393%             |
| Diethyl phthalate           | 84-66-2   | 1000                     | ± 1.870%             |
| 2,4-Dimethylphenol          | 105-67-9  | 1000                     | ± 2.495%             |
| Dimethyl phthalate          | 131-11-3  | 1000                     | ± 2.113%             |
| 1,2-Dinitrobenzene          | 528-29-0  | 1000                     | ± 0.240%             |
| 1,3-Dinitrobenzene          | 99-65-0   | 1000                     | ± 1.221%             |
| 1,4-Dinitrobenzene          | 100-25-4  | 1000                     | ± 0.246%             |
| 2,4-Dinitrophenol           | 51-28-5   | 1000                     | ± 0.519%             |
| 2,4-Dinitrotoluene          | 121-14-2  | 1000                     | ± 2.242%             |



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**Catalog No.:** AL0-101444      **Lot Number:** CL18811  
**Description:** 8270 Calibration Standard      **Certification Date:** August 9, 2022  
**Storage:** -18 °C      **Expiration Date:** November 30, 2023  
**Provided As:** 1 mL in 2 mL Ampoule in MeCl<sub>2</sub>/Methanol (97:3)

| Component                  | CAS #    | Certified Value<br>µg/mL | Expanded Uncertainty |
|----------------------------|----------|--------------------------|----------------------|
| 2,6-Dinitrotoluene         | 606-20-2 | 1000                     | ± 2.154%             |
| Di-n-octyl phthalate       | 117-84-0 | 1000                     | ± 2.670%             |
| Fluoranthene               | 206-44-0 | 1000                     | ± 2.103%             |
| Fluorene                   | 86-73-7  | 1000                     | ± 0.890%             |
| Hexachlorobenzene          | 118-74-1 | 1000                     | ± 1.210%             |
| Hexachlorobutadiene        | 87-68-3  | 1000                     | ± 1.304%             |
| Hexachlorocyclopentadiene  | 77-47-4  | 1000                     | ± 1.510%             |
| Hexachloroethane           | 67-72-1  | 1000                     | ± 3.281%             |
| Indeno(1,2,3-cd)pyrene     | 193-39-5 | 1000                     | ± 1.921%             |
| Isophorone                 | 78-59-1  | 1000                     | ± 2.022%             |
| 2-Methyl-4,6-dinitrophenol | 534-52-1 | 1000                     | ± 1.661%             |
| 1-Methylnaphthalene        | 90-12-0  | 1000                     | ± 1.929%             |
| 2-Methylnaphthalene        | 91-57-6  | 1000                     | ± 2.220%             |
| 2-Methylphenol             | 95-48-7  | 1000                     | ± 2.168%             |
| 3-Methylphenol             | 108-39-4 | 500                      | ± 1.025%             |
| 4-Methylphenol             | 106-44-5 | 500                      | ± 1.064%             |
| Naphthalene                | 91-20-3  | 1000                     | ± 1.199%             |
| 2-Nitroaniline             | 88-74-4  | 1000                     | ± 1.874%             |
| 3-Nitroaniline             | 99-09-2  | 1000                     | ± 2.146%             |
| 4-Nitroaniline             | 100-01-6 | 1000                     | ± 0.300%             |
| Nitrobenzene               | 98-95-3  | 1000                     | ± 1.704%             |



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**Storage:** -18 °C      **Expiration Date:** November 30, 2023  
**Provided As:** 1 mL in 2 mL Ampoule in MeCl<sub>2</sub>/Methanol (97:3)

| Component                 | CAS #    | Certified Value<br>µg/mL | Expanded Uncertainty |
|---------------------------|----------|--------------------------|----------------------|
| 2-Nitrophenol             | 88-75-5  | 1000                     | ± 2.051%             |
| 4-Nitrophenol             | 100-02-7 | 1000                     | ± 1.413%             |
| N-Nitrosodimethylamine    | 62-75-9  | 1000                     | ± 0.545%             |
| N-Nitrosodiphenylamine    | 86-30-6  | 1000                     | ± 1.669%             |
| N-Nitrosodi-n-propylamine | 621-64-7 | 1000                     | ± 0.712%             |
| Pentachlorophenol         | 87-86-5  | 1000                     | ± 2.454%             |
| Phenanthrene              | 85-01-8  | 1000                     | ± 2.072%             |
| Phenol                    | 108-95-2 | 1000                     | ± 2.140%             |
| Pyrene                    | 129-00-0 | 1000                     | ± 1.869%             |
| Pyridine                  | 110-86-1 | 1000                     | ± 0.545%             |
| 2,3,4,6-Tetrachlorophenol | 58-90-2  | 1000                     | ± 2.552%             |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | 1000                     | ± 2.220%             |
| 1,2,4-Trichlorobenzene    | 120-82-1 | 1000                     | ± 1.632%             |
| 2,4,5-Trichlorophenol     | 95-95-4  | 1000                     | ± 1.596%             |
| 2,4,6-Trichlorophenol     | 88-06-2  | 1000                     | ± 0.481%             |

**Notes:** The proper chemical name for Bis(2-Chloroisopropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.



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# Certificate of Analysis

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1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31<sup>1</sup> and ISO Guide 35.<sup>2</sup>
2. **Quality Standards:** Phenova is accredited by A2LA to ISO 17034<sup>3</sup> and ISO/IEC 17025<sup>4</sup> as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at [www.phenova.com/documents](http://www.phenova.com/documents).
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98<sup>5</sup> and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

## References:

<sup>1</sup> ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.

<sup>2</sup> ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.

<sup>3</sup> ISO 17034 – General Requirements for the Competence of Reference Material Producers.

<sup>4</sup> ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.

<sup>5</sup> ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



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**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8081B**

|  |  |
|--|--|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0179</u>                        |
| Client: <u>Anchor QEA, LLC</u>               |  |
| Project: <u>AOC5 MR Phase 1</u>              |  |
| Matrix: <u>Solid</u>                         | Laboratory ID: <u>23A0179-01 A</u>         |
|  | File ID: <u>23020930.D</u>                 |
| Sampled: <u>01/10/23 08:24</u>               | Prepared: <u>01/26/23 12:35</u>            |
|  | Analyzed: <u>02/10/23 04:09</u>            |
| % Solids: <u>58.98</u>                       | Preparation: <u>EPA 3546 (Microwave)</u>   |
|  | Initial/Final: <u>21.82 g Wet / 2.5 mL</u> |
| Batch: <u>BLA0556</u>                        | Sequence: <u>SLB0156</u>                   |
|  | Calibration: <u>FL00041</u>                |
| Instrument: <u>ECD6</u>                      | Column 1: <u>STX-CLP</u>                   |
|  | Column 2: <u>STX-CLPII</u>                 |

| CAS NO.  | COMPOUND          | Col # | DILUTION | CONC. (ug/kg dry) | MDL  | MRL  | Q |
|----------|-------------------|-------|----------|-------------------|------|------|---|
| 118-74-1 | Hexachlorobenzene | 1     | 1        | 0.49              | 0.14 | 0.49 | U |

| SURROGATES                   | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i>    | 1     | 7.7703            | 6.52             | 83.9  | 30 - 160  |   |
| <i>Decachlorobiphenyl</i>    | 2     | 7.7703            | 6.82             | 87.8  | 30 - 160  |   |
| <i>Tetrachlorometaxylene</i> | 1     | 7.7703            | 5.66             | 72.9  | 30 - 160  |   |
| <i>Tetrachlorometaxylene</i> | 2     | 7.7703            | 5.37             | 69.1  | 30 - 160  |   |



Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020930.D  
Data file 2: /20230209.b/B20230209.b/23020930.D  
Method: \20230209.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: AA/JR

ARI ID: 23A0179-01  
Client ID:  
Injection Date: 10-FEB-2023 04:09  
Report Date: 02/11/2023 07:14  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT     | CLP2 Col<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD   | Compound/Flag |                      |
|-------|-------------------------------|----------------------------|--------|----------------------------|-------------------|----------------|-------|---------------|----------------------|
| 4.286 | -0.024                        | 72238                      | 4.817  | -0.016                     | 11860             | 4.02           | 0.44  | 160.9*        | alpha-BHC            |
| 4.674 | -0.019                        | 9349                       | 5.316  | 0.007                      | 14242             | 1.35           | 1.38  | 1.7           | beta-BHC             |
| 4.871 | -0.005                        | 65025                      | ----   | ----                       | ----              | 4.43           | 0.00  | ---           | delta-BHC            |
| 4.604 | -0.008                        | 30370                      | 5.209  | -0.020                     | 7684              | 1.95           | 0.33  | 141.8*        | gamma-BHC (Lindane)  |
| 5.067 | -0.025                        | 17972                      | 5.746  | -0.008                     | 32065             | 1.30           | 1.53  | 16.6          | Heptachlor           |
| 5.419 | 0.005                         | 52453                      | 6.138  | -0.020                     | 39383             | 3.38           | 1.65  | 68.9*         | Aldrin               |
| 6.061 | -0.028                        | 24910                      | ----   | ----                       | ----              | 1.85           | 0.00  | ---           | Heptachlor epoxide b |
| ----  | ----                          | ----                       | ----   | ----                       | ----              | 0.00           | 0.00  | ---           | Endosulfan I         |
| ----  | ----                          | ----                       | ----   | ----                       | ----              | 0.00           | 0.00  | ---           | Dieldrin             |
| 6.431 | -0.021                        | 102455                     | 7.320  | -0.022                     | 101863            | 8.32           | 5.77  | 36.1          | 4,4'-DDE             |
| 7.050 | 0.009                         | 246314                     | 7.886  | 0.010                      | 200832            | 26.79          | 15.87 | 51.2*         | Endrin               |
| 7.290 | 0.012                         | 14728                      | ----   | ----                       | ----              | 1.78           | 0.00  | ---           | Endosulfan II        |
| ----  | ----                          | ----                       | 7.927  | -0.022                     | 54579             | 0.00           | 4.43  | ---           | 4,4'-DDD             |
| ----  | ----                          | ----                       | 8.702  | 0.016                      | 63859             | 0.00           | 5.60  | ---           | Endosulfan sulfates  |
| ----  | ----                          | ----                       | 8.254  | -0.012                     | 357077            | 0.00           | 30.05 | ---           | 4,4'-DDT             |
| 7.893 | 0.016                         | 25765                      | 8.927  | 0.018                      | 16771             | 6.95           | 3.19  | 74.1*         | Methoxychlor         |
| ----  | ----                          | ----                       | 9.206  | -0.004                     | 253918            | 0.00           | 20.63 | ---           | Endrin ketone        |
| 7.715 | 0.008                         | 61174                      | 8.393  | -0.025                     | 63228             | 9.26           | 6.91  | 29.1          | Endrin aldehyde      |
| 6.259 | 0.029                         | 9528                       | 7.039  | 0.014                      | 134951            | 0.70           | 6.85  | 163.0*        | trans-Chlordane      |
| 6.381 | 0.005                         | 67836                      | 7.162  | -0.023                     | 12827             | 4.95           | 0.67  | 152.6*        | cis-Chlordane        |
| 2.292 | -0.012                        | 14724                      | 2.504  | 0.022                      | 4094              | 0.78           | 0.16  | 132.7*        | Hexachlorobutadiene  |
| 4.141 | -0.012                        | 20717                      | 4.669  | -0.024                     | 49780             | 1.24           | 2.01  | 47.1*         | Hexachlorobenzene M  |
| 3.790 | -0.010                        | 369475                     | 4.181  | -0.015                     | 528152            | 29.14          | 27.62 | 5.3           | Tetrachloro-m-xylene |
| 9.306 | -0.013                        | 238655                     | 10.403 | -0.026                     | 345608            | 33.58          | 35.13 | 4.5           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 672426         | 932286      | 38.6 |
| Hexabromobiphenyl  | 609723         | 701428      | 15.0 |

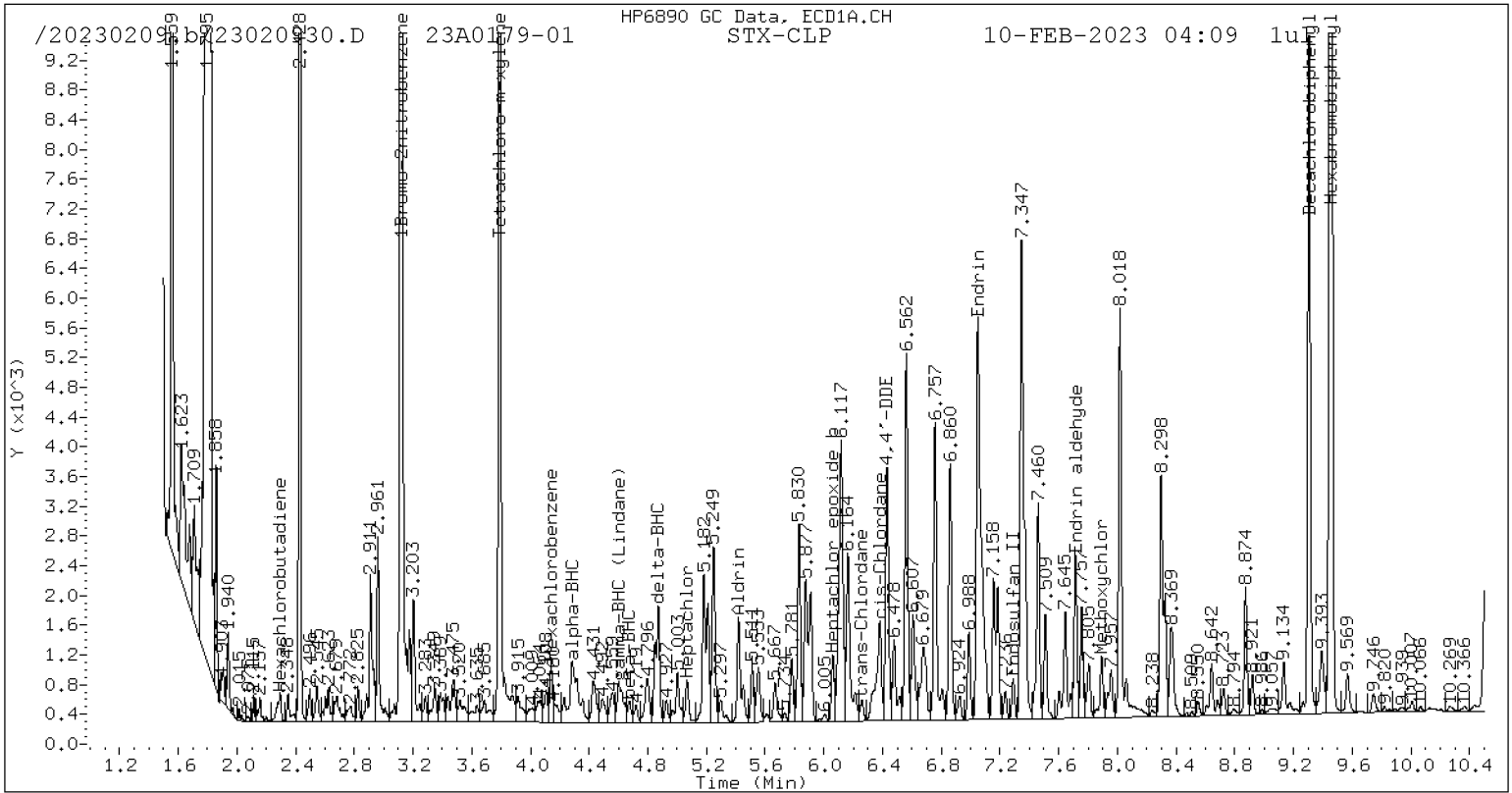
| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1006482        | 1358249     | 35.0 |
| Hexabromobiphenyl  | 769764         | 890242      | 15.7 |

\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

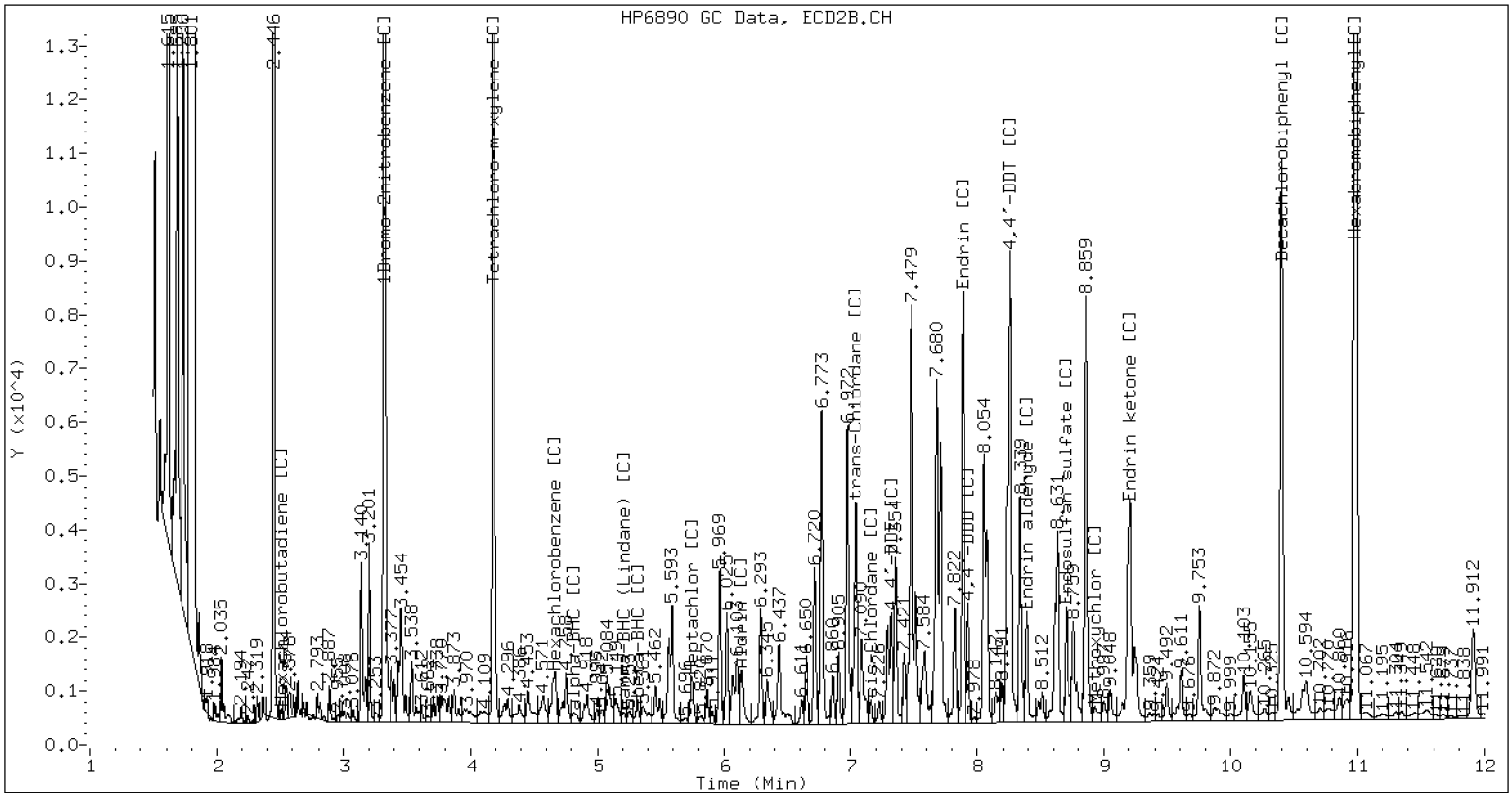
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

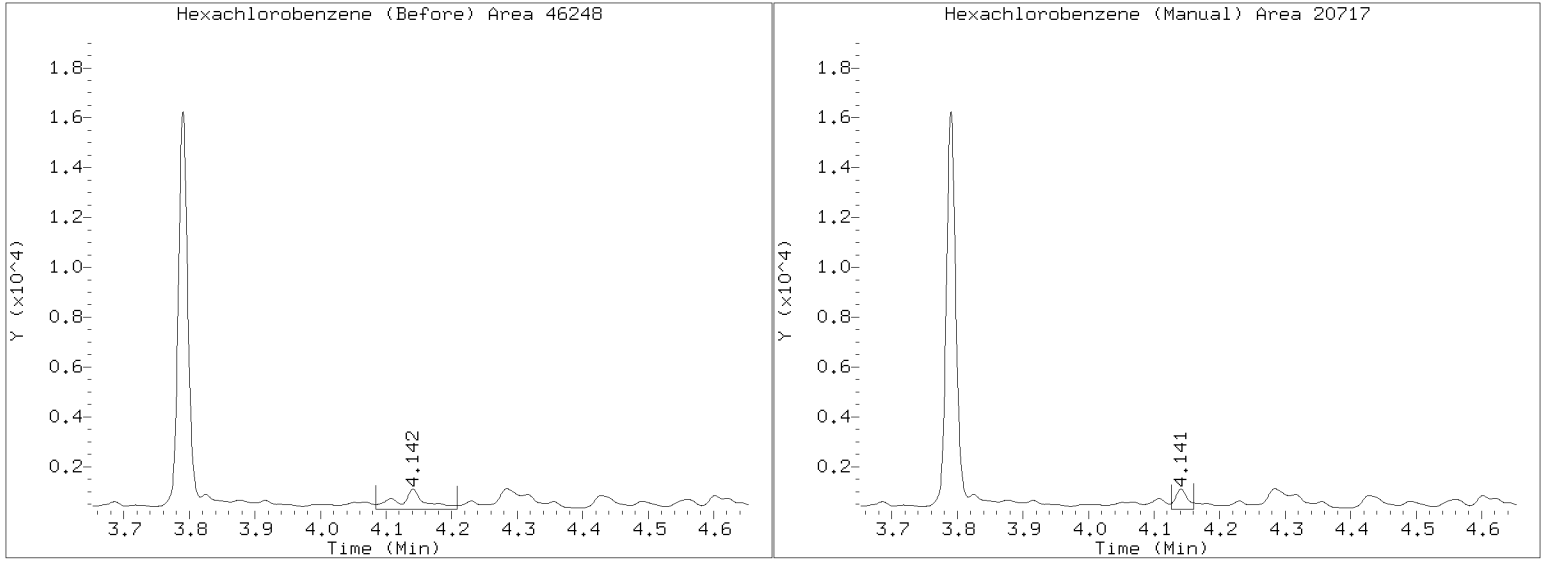
/20230209.b/B20230209.b/23020930.D 23A0179-01 CLP2



CLP-2 Manual Integration: NO

Manual Peak Adjustment Report, STX-CLP

Datafile: /20230209.b/23020930.D  
Injection Date: 10-FEB-2023 04:09  
Lab ID:23A0179-01 Client ID:  
Report Date: 02/11/2023 07:14







**Dual Column**

**LDW23-SS1271**

**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8081B**

|  |  |  |
|--|--|--|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0179</u>                      |  |
| Client: <u>Anchor QEA, LLC</u>               |  |  |
| Project: <u>AOC5 MR Phase 1</u>              |  |  |
| Matrix: <u>Solid</u>                         | Laboratory ID: <u>23A0179-02 A</u>       | File ID: <u>23020931.D</u>                 |
| Sampled: <u>01/10/23 08:43</u>               | Prepared: <u>01/26/23 12:35</u>          | Analyzed: <u>02/10/23 04:26</u>            |
| % Solids: <u>66.21</u>                       | Preparation: <u>EPA 3546 (Microwave)</u> | Initial/Final: <u>19.05 g Wet / 2.5 mL</u> |
| Batch: <u>BLA0556</u>                        | Sequence: <u>SLB0156</u>                 | Calibration: <u>FL00041</u>                |
| Instrument: <u>ECD6</u>                      | Column 1: <u>STX-CLP</u>                 | Column 2: <u>STX-CLPII</u>                 |

| CAS NO.  | COMPOUND          | Col # | DILUTION | CONC. (ug/kg dry) | MDL  | MRL  | Q |
|----------|-------------------|-------|----------|-------------------|------|------|---|
| 118-74-1 | Hexachlorobenzene | 1     | 1        | 0.50              | 0.14 | 0.50 | U |

| SURROGATES                   | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i>    | 1     | 7.9283            | 6.72             | 84.8  | 30 - 160  |   |
| <i>Decachlorobiphenyl</i>    | 2     | 7.9283            | 7.25             | 91.5  | 30 - 160  |   |
| <i>Tetrachlorometaxylene</i> | 1     | 7.9283            | 5.35             | 67.5  | 30 - 160  |   |
| <i>Tetrachlorometaxylene</i> | 2     | 7.9283            | 5.35             | 67.5  | 30 - 160  |   |

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020931.D  
Data file 2: /20230209.b/B20230209.b/23020931.D  
Method: \20230209.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: AA/JR

ARI ID: 23A0179-02  
Client ID:  
Injection Date: 10-FEB-2023 04:26  
Report Date: 02/11/2023 07:15  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT     | CLP2 Col<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD   | Compound/Flag |                      |
|-------|-------------------------------|----------------------------|--------|----------------------------|-------------------|----------------|-------|---------------|----------------------|
| 4.313 | 0.002                         | 34327                      | 4.819  | -0.013                     | 8582              | 2.01           | 0.31  | 146.6*        | alpha-BHC            |
| 4.673 | -0.019                        | 5793                       | 5.316  | 0.007                      | 10316             | 0.88           | 0.98  | 10.4          | beta-BHC             |
| 4.871 | -0.005                        | 51756                      | ----   | ----                       | ----              | 3.71           | 0.00  | ---           | delta-BHC            |
| 4.602 | -0.010                        | 19951                      | 5.208  | -0.021                     | 4189              | 1.35           | 0.18  | 153.3*        | gamma-BHC (Lindane)  |
| 5.067 | -0.025                        | 12834                      | 5.746  | -0.009                     | 30743             | 0.97           | 1.44  | 38.7          | Heptachlor           |
| 5.419 | 0.005                         | 43237                      | 6.157  | -0.001                     | 76802             | 2.93           | 3.16  | 7.4           | Aldrin               |
| 6.061 | -0.028                        | 21513                      | ----   | ----                       | ----              | 1.68           | 0.00  | ---           | Heptachlor epoxide b |
| ----  | ----                          | ----                       | ----   | ----                       | ----              | 0.00           | 0.00  | ---           | Endosulfan I         |
| ----  | ----                          | ----                       | ----   | ----                       | ----              | 0.00           | 0.00  | ---           | Dieldrin             |
| 6.430 | -0.021                        | 81210                      | 7.319  | -0.022                     | 79189             | 6.93           | 4.41  | 44.6*         | 4,4'-DDE             |
| 7.049 | 0.008                         | 294022                     | 7.886  | 0.010                      | 309186            | 32.07          | 0.00  | ---           | Endrin               |
| 7.290 | 0.012                         | 14372                      | ----   | ----                       | ----              | 1.74           | 0.00  | ---           | Endosulfan II        |
| ----  | ----                          | ----                       | 7.978  | 0.029                      | 2633              | 0.00           | 0.00  | ---           | 4,4'-DDD             |
| ----  | ----                          | ----                       | 8.702  | 0.016                      | 117170            | 0.00           | 0.00  | ---           | Endosulfan sulfate   |
| ----  | ----                          | ----                       | 8.254  | -0.012                     | 417340            | 0.00           | 0.00  | ---           | 4,4'-DDT             |
| 7.856 | -0.022                        | 13086                      | 8.926  | 0.017                      | 22089             | 3.54           | 0.00  | ---           | Methoxychlor         |
| ----  | ----                          | ----                       | 9.207  | -0.002                     | 569164            | 0.00           | 0.00  | ---           | Endrin ketone        |
| 7.715 | 0.008                         | 132989                     | 8.394  | -0.025                     | 128638            | 20.20          | 0.00  | ---           | Endrin aldehyde      |
| ----  | ----                          | ----                       | 7.039  | 0.014                      | 117505            | 0.00           | 5.85  | ---           | trans-Chlordane      |
| 6.380 | 0.005                         | 48506                      | 7.162  | -0.023                     | 8731              | 3.72           | 0.44  | 157.3*        | cis-Chlordane        |
| 2.280 | -0.024                        | 8279                       | 2.505  | 0.022                      | 4169              | 0.46           | 0.16  | 98.1*         | Hexachlorobutadiene  |
| 4.141 | -0.012                        | 8184                       | ----   | ----                       | ----              | 0.52           | 0.00  | ---           | Hexachlorobenzene    |
| 3.791 | -0.010                        | 325825                     | 4.181  | -0.015                     | 526159            | 27.02          | 27.01 | 0.0           | Tetrachloro-m-xylene |
| 9.306 | -0.013                        | 240192                     | 10.402 | -0.027                     | 362985            | 33.90          | 0.00  | ---           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 672426         | 886831      | 31.9 |
| Hexabromobiphenyl  | 609723         | 699224      | 14.7 |

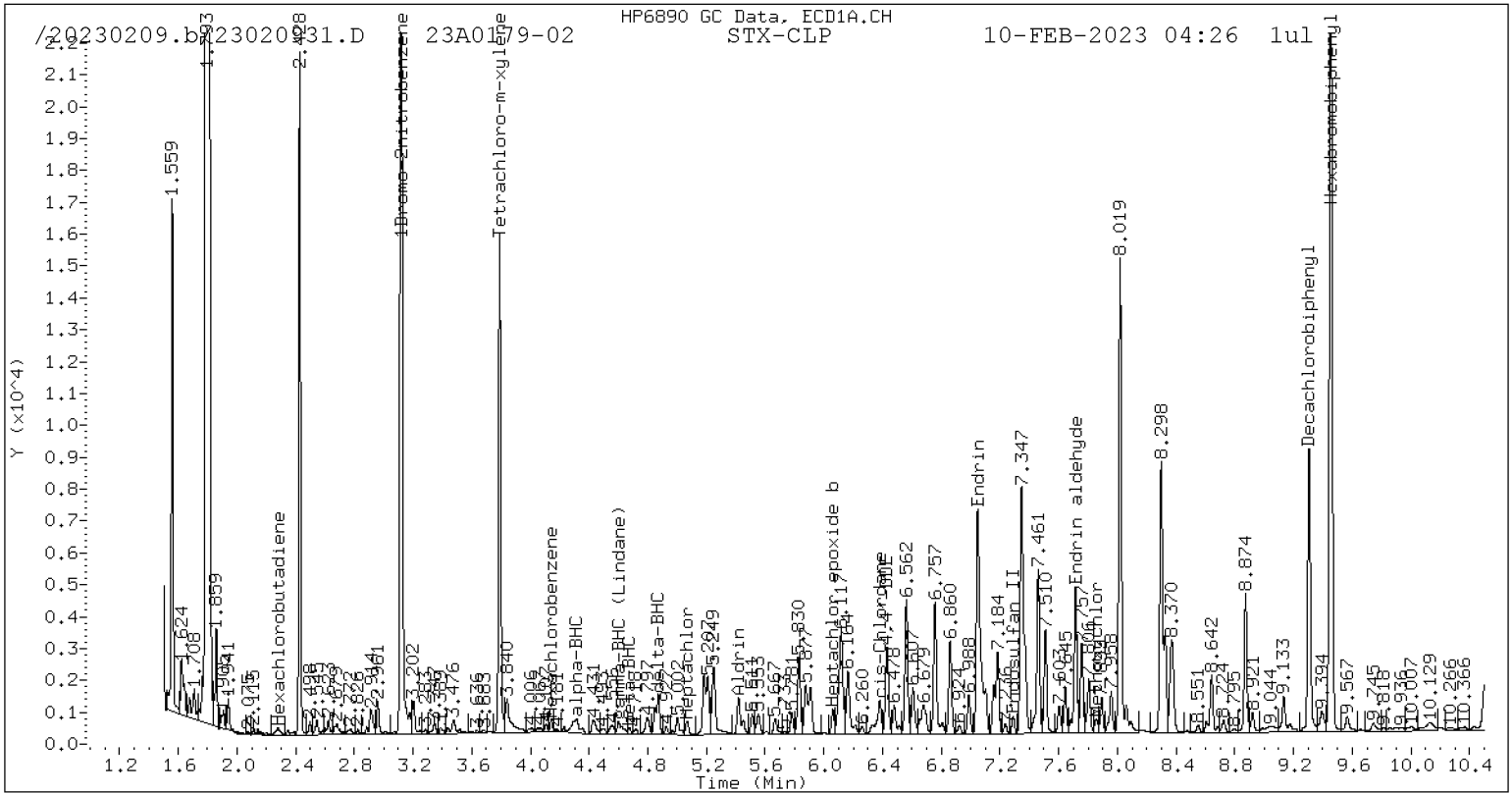
| Standard Cpnd      | Column 2       |             | %D        |
|--------------------|----------------|-------------|-----------|
|                    | Standard Area* | Sample Area |           |
| Bromo-Nitrobenzene | 1006482        | 1383776     | 37.5      |
| Hexabromobiphenyl  | 769764         | 0           | -100.0 <- |

\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

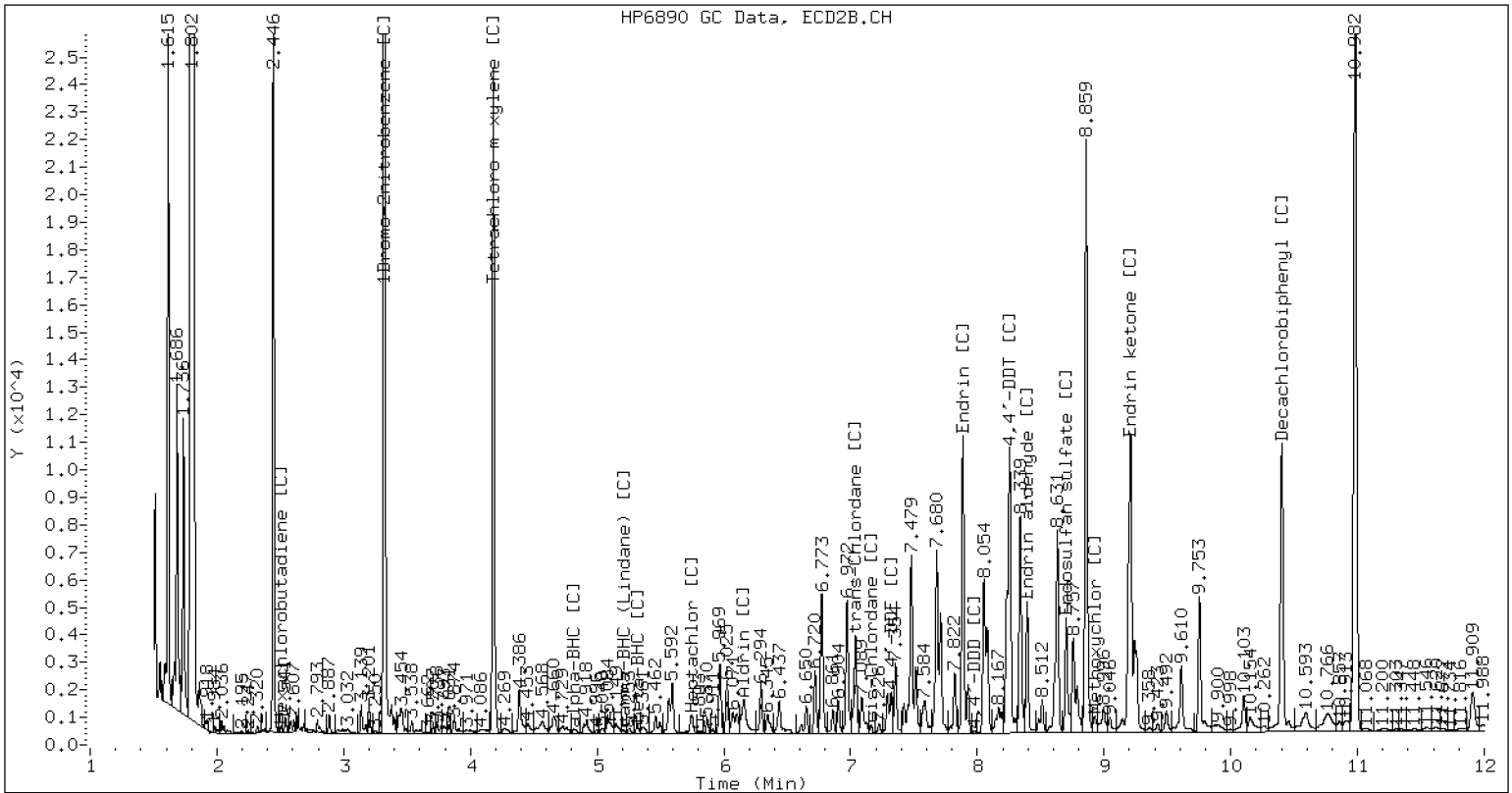
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

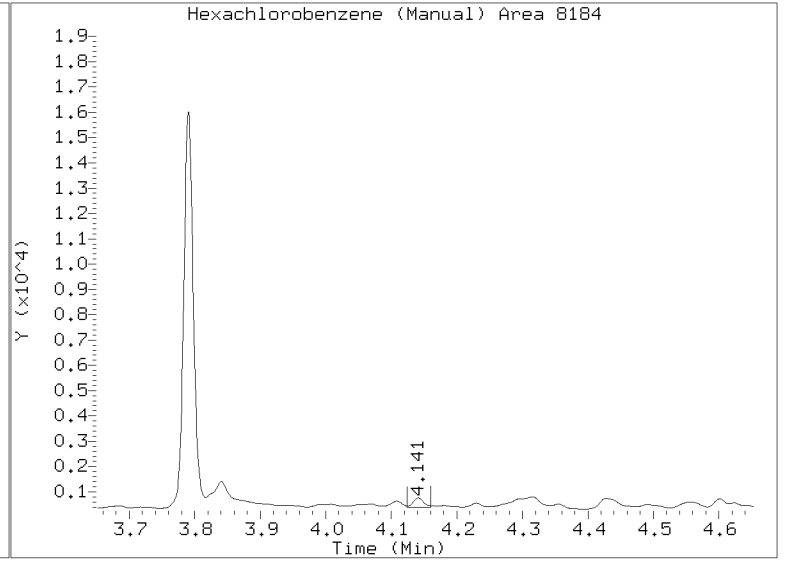
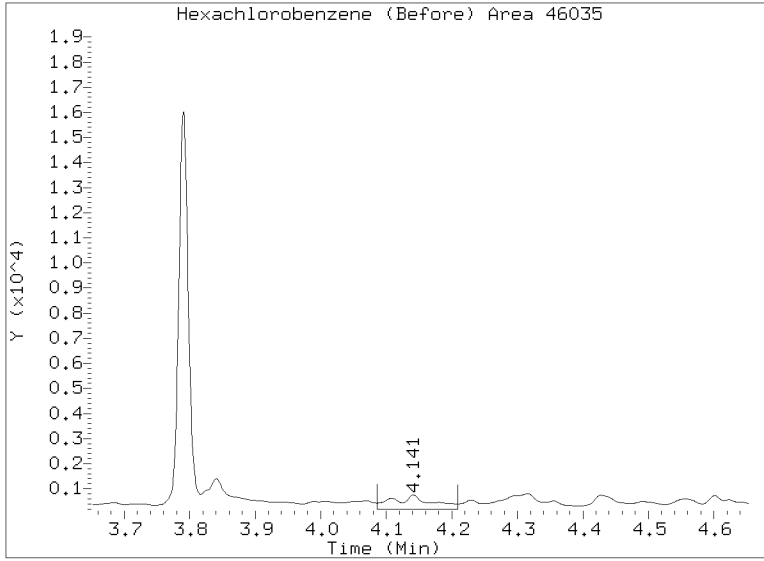
/20230209.b/B20230209.b/23020931.D 23A0179-02 CLP2



CLP-2 Manual Integration: NO

Manual Peak Adjustment Report, STX-CLP

Datafile: /20230209.b/23020931.D  
Injection Date: 10-FEB-2023 04:26  
Lab ID:23A0179-02 Client ID:  
Report Date: 02/11/2023 07:15

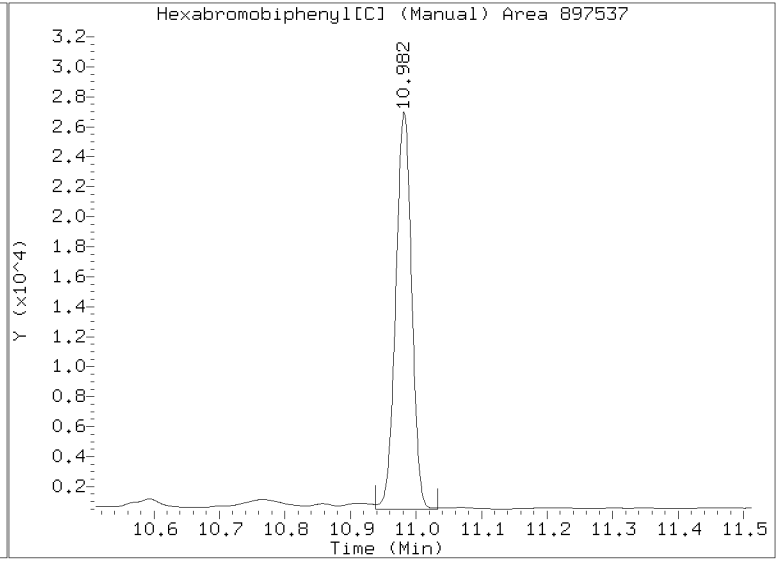
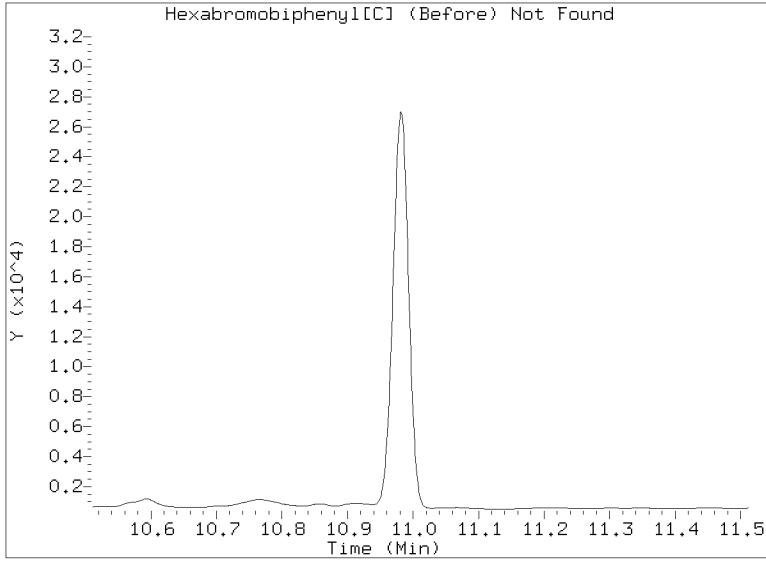


Manual Peak Adjustment Report, CLP-2

Datafile: /20230209.b/B20230209.b/23020931.D

Injection Date: 10-FEB-2023 04:26

Lab ID:23A0179-02 Client ID:





**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8081B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: 23A0179-03 A

File ID: 23020932.D

Sampled: 01/10/23 09:04

Prepared: 01/26/23 12:35

Analyzed: 02/10/23 04:44

% Solids: 58.58

Preparation: EPA 3546 (Microwave)

Initial/Final: 21.9 g Wet / 2.5 mL

Batch: BLA0556

Sequence: SLB0156

Calibration: FL00041

Instrument: ECD6

Column 1: STX-CLP

Column 2: STX-CLPII

| CAS NO.  | COMPOUND          | Col # | DILUTION | CONC. (ug/kg dry) | MDL  | MRL  | Q |
|----------|-------------------|-------|----------|-------------------|------|------|---|
| 118-74-1 | Hexachlorobenzene | 1     | 1        | 0.49              | 0.14 | 0.49 | U |

| SURROGATES                   | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i>    | 1     | 7.7948            | 6.68             | 85.7  | 30 - 160  |   |
| <i>Decachlorobiphenyl</i>    | 2     | 7.7948            | 7.00             | 89.8  | 30 - 160  |   |
| <i>Tetrachlorometaxylene</i> | 1     | 7.7948            | 5.45             | 69.9  | 30 - 160  |   |
| <i>Tetrachlorometaxylene</i> | 2     | 7.7948            | 5.12             | 65.7  | 30 - 160  |   |

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020932.D  
Data file 2: /20230209.b/B20230209.b/23020932.D  
Method: \20230209.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: AA/JR

ARI ID: 23A0179-03  
Client ID:  
Injection Date: 10-FEB-2023 04:44  
Report Date: 02/11/2023 07:15  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col |        |          | CLP2 Col |        |          | STX-CLP | CLP2   | RPD    | Compound/Flag        |
|-------------|--------|----------|----------|--------|----------|---------|--------|--------|----------------------|
| RT          | Shift  | Response | RT       | Shift  | Response | on col  | on col |        |                      |
| 4.315       | 0.004  | 43198    | 4.833    | 0.000  | 8866     | 2.44    | 0.31   | 154.8* | alpha-BHC            |
| 4.674       | -0.019 | 8034     | 5.316    | 0.007  | 13411    | 1.18    | 1.23   | 4.8    | beta-BHC             |
| 4.871       | -0.005 | 71199    | 5.689    | 0.028  | 6987     | 4.91    | 0.30   | 177.2* | delta-BHC            |
| 4.602       | -0.010 | 24977    | 5.208    | -0.021 | 5247     | 1.62    | 0.22   | 153.0* | gamma-BHC (Lindane)  |
| 5.066       | -0.026 | 19908    | 5.747    | -0.007 | 33177    | 1.46    | 1.51   | 3.8    | Heptachlor           |
| 5.418       | 0.004  | 52052    | ----     |        |          | 3.40    | 0.00   | ---    | Aldrin               |
| 6.117       | 0.028  | 170169   | ----     |        |          | 12.80   | 0.00   | ---    | Heptachlor epoxide b |
| ----        |        |          | ----     |        |          | 0.00    | 0.00   | ---    | Endosulfan I         |
| 6.805       | 0.014  | 12825    | ----     |        |          | 0.98    | 0.00   | ---    | Dieldrin             |
| 6.431       | -0.021 | 103077   | 7.319    | -0.022 | 109334   | 8.47    | 5.91   | 35.7   | 4,4'-DDE             |
| 7.051       | 0.009  | 220090   | 7.886    | 0.010  | 176495   | 23.54   | 13.51  | 54.1*  | Endrin               |
| 7.291       | 0.013  | 15840    | ----     |        |          | 1.88    | 0.00   | ---    | Endosulfan II        |
| ----        |        |          | 7.927    | -0.022 | 57846    | 0.00    | 4.55   | ---    | 4,4'-DDD             |
| ----        |        |          | 8.702    | 0.015  | 46391    | 0.00    | 3.95   | ---    | Endosulfan sulfate   |
| ----        |        |          | 8.254    | -0.012 | 365085   | 0.00    | 29.77  | ---    | 4,4'-DDT             |
| 7.893       | 0.016  | 32511    | ----     |        |          | 8.62    | 0.00   | ---    | Methoxychlor         |
| ----        |        |          | 9.206    | -0.003 | 237470   | 0.00    | 18.70  | ---    | Endrin ketone        |
| 7.716       | 0.009  | 50499    | 8.392    | -0.026 | 62568    | 7.52    | 6.63   | 12.7   | Endrin aldehyde      |
| 6.258       | 0.029  | 6848     | 7.039    | 0.014  | 123922   | 0.51    | 5.99   | 168.8* | trans-Chlordane      |
| 6.380       | 0.005  | 64788    | 7.162    | -0.022 | 13498    | 4.78    | 0.67   | 151.0* | cis-Chlordane        |
| 2.278       | -0.026 | 10245    | 2.505    | 0.023  | 4743     | 0.55    | 0.17   | 103.7* | Hexachlorobutadiene  |
| ----        |        |          | 4.662    | -0.030 | 35605    | 0.00    | 1.37   | ---    | Hexachlorobenzene    |
| 3.790       | -0.010 | 350390   | 4.181    | -0.015 | 527455   | 27.97   | 26.29  | 6.2    | Tetrachloro-m-xylene |
| 9.306       | -0.013 | 247658   | 10.403   | -0.026 | 364591   | 34.27   | 35.91  | 4.7    | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits



INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 672426         | 921120      | 37.0 |
| Hexabromobiphenyl  | 609723         | 713279      | 17.0 |

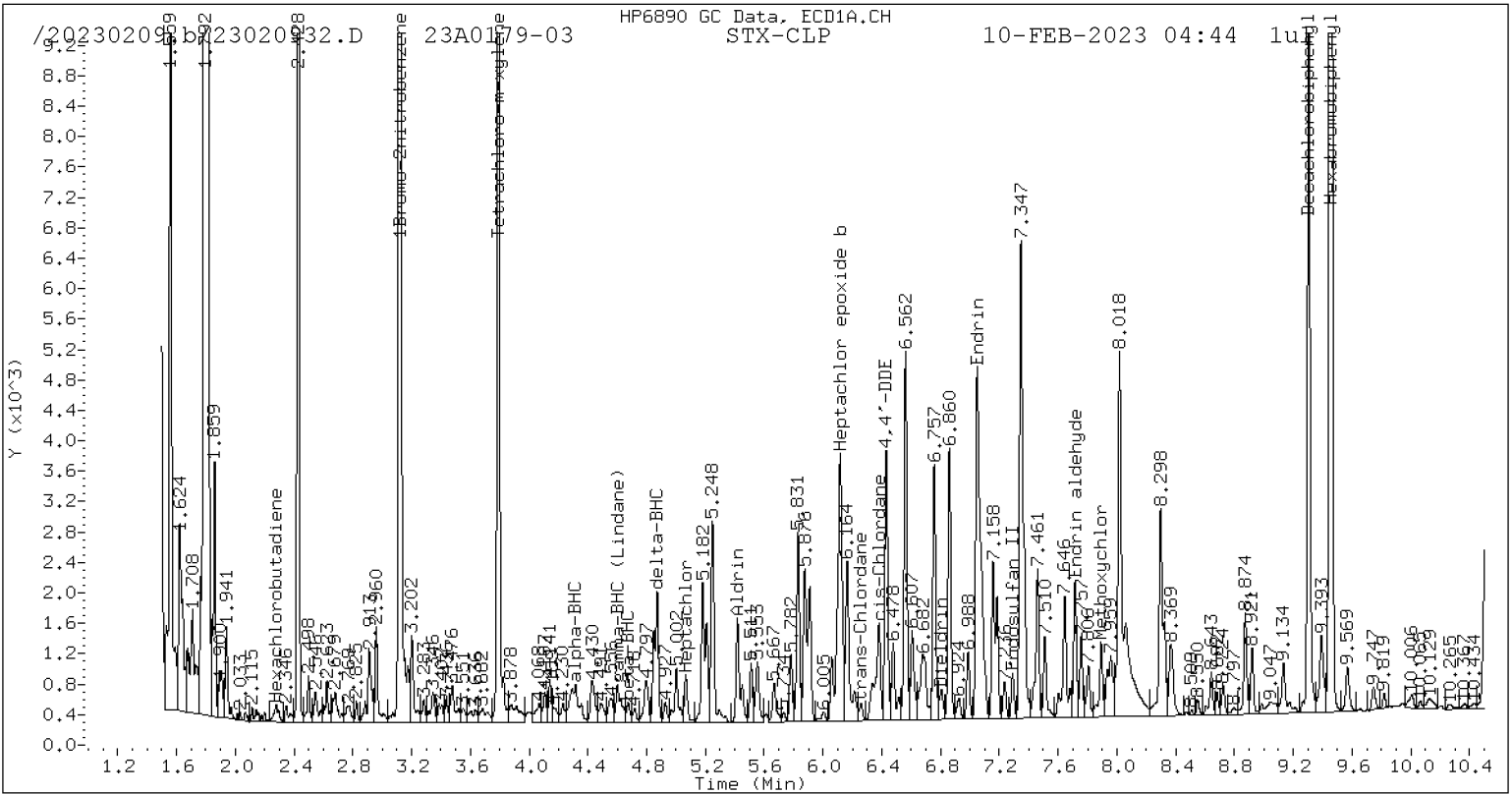
| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1006482        | 1425237     | 41.6 |
| Hexabromobiphenyl  | 769764         | 918593      | 19.3 |

\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

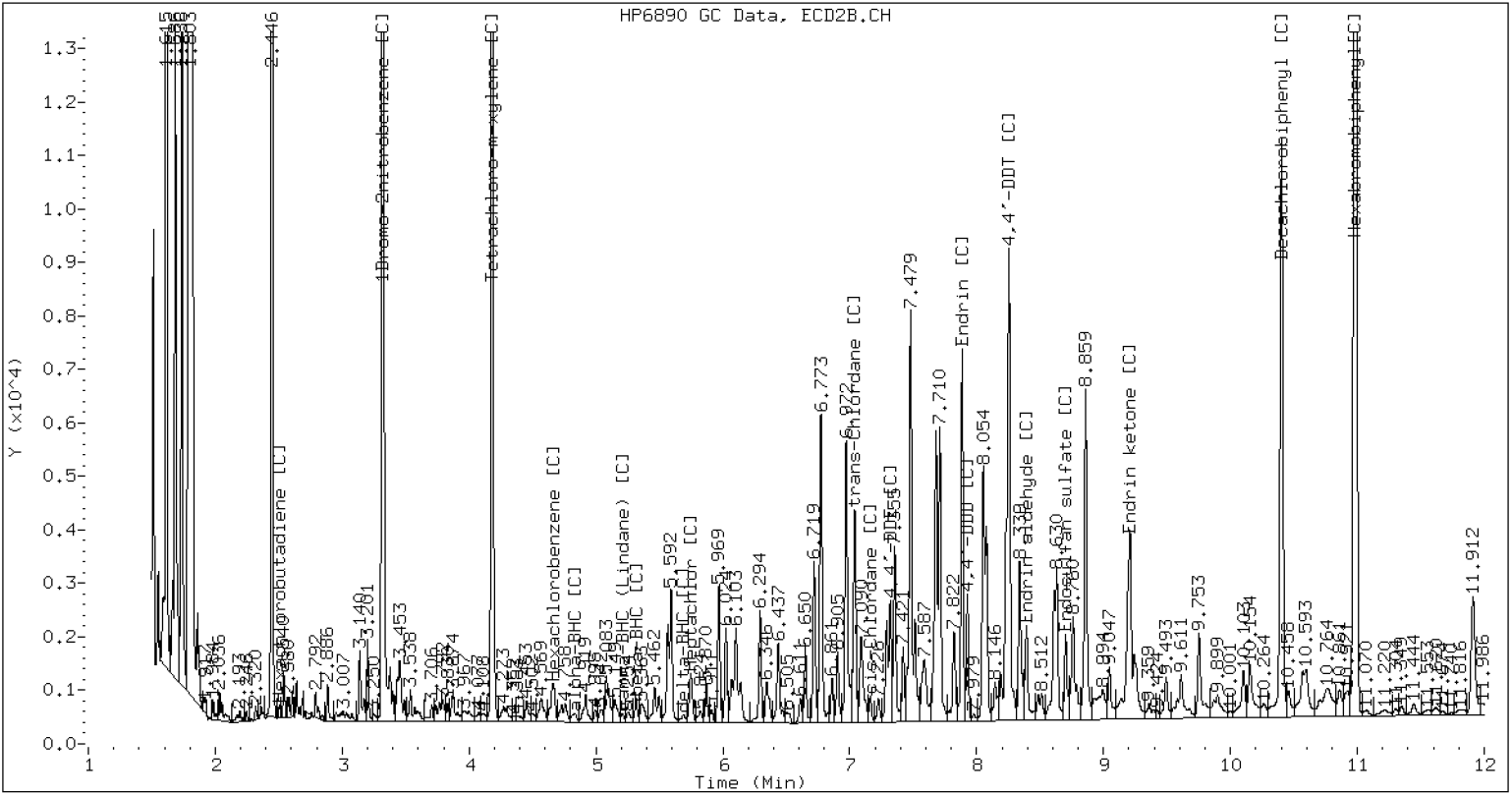
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230209.b/B20230209.b/23020932.D 23A0179-03 CLP2



CLP-2 Manual Integration: NO



**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8081B**

|  |   |
|--|---|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0179</u>                       |
| Client: <u>Anchor QEA, LLC</u>               |   |
| Project: <u>AOC5 MR Phase 1</u>              |   |
| Matrix: <u>Solid</u>                         | Laboratory ID: <u>23A0179-04 A</u>        |
|  | File ID: <u>23020933.D</u>                |
| Sampled: <u>01/10/23 09:20</u>               | Prepared: <u>01/26/23 12:35</u>           |
|  | Analyzed: <u>02/10/23 05:02</u>           |
| % Solids: <u>53.74</u>                       | Preparation: <u>EPA 3546 (Microwave)</u>  |
|  | Initial/Final: <u>23.9 g Wet / 2.5 mL</u> |
| Batch: <u>BLA0556</u>                        | Sequence: <u>SLB0156</u>                  |
|  | Calibration: <u>FL00041</u>               |
| Instrument: <u>ECD6</u>                      | Column 1: <u>STX-CLP</u>                  |
|  | Column 2: <u>STX-CLPII</u>                |

| CAS NO.  | COMPOUND          | Col # | DILUTION | CONC. (ug/kg dry) | MDL  | MRL  | Q |
|----------|-------------------|-------|----------|-------------------|------|------|---|
| 118-74-1 | Hexachlorobenzene | 1     | 1        | 0.49              | 0.14 | 0.49 | U |

| SURROGATES                   | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i>    | 1     | 7.7858            | 6.96             | 89.4  | 30 - 160  |   |
| <i>Decachlorobiphenyl</i>    | 2     | 7.7858            | 6.97             | 89.5  | 30 - 160  |   |
| <i>Tetrachlorometaxylene</i> | 1     | 7.7858            | 5.08             | 65.3  | 30 - 160  |   |
| <i>Tetrachlorometaxylene</i> | 2     | 7.7858            | 5.12             | 65.8  | 30 - 160  |   |

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020933.D  
Data file 2: /20230209.b/B20230209.b/23020933.D  
Method: \20230209.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: AA/JR

ARI ID: 23A0179-04  
Client ID:  
Injection Date: 10-FEB-2023 05:02  
Report Date: 02/11/2023 07:16  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Response | RT     | CLP2 Col<br>Shift Response | CLP2 Col<br>Response | STX-CLP<br>on col | CLP2<br>on col | RPD    | Compound/Flag        |
|-------|-------------------------------|----------------------|--------|----------------------------|----------------------|-------------------|----------------|--------|----------------------|
| 4.293 | -0.017                        | 48642                | 4.819  | -0.013                     | 15857                | 2.70              | 0.59           | 127.9* | alpha-BHC            |
| 4.720 | 0.027                         | 10018                | 5.316  | 0.006                      | 15242                | 1.44              | 1.50           | 3.8    | beta-BHC             |
| 4.871 | -0.005                        | 66240                | ----   | ----                       | ----                 | 4.50              | 0.00           | ---    | delta-BHC            |
| 4.602 | -0.009                        | 43471                | 5.210  | -0.019                     | 8274                 | 2.78              | 0.37           | 153.6* | gamma-BHC (Lindane)  |
| 5.067 | -0.025                        | 18548                | 5.745  | -0.009                     | 35695                | 1.33              | 1.74           | 26.3   | Heptachlor           |
| 5.419 | 0.005                         | 56684                | 6.138  | -0.020                     | 30496                | 3.64              | 1.30           | 94.7*  | Aldrin               |
| 6.060 | -0.028                        | 28516                | ----   | ----                       | ----                 | 2.11              | 0.00           | ---    | Heptachlor epoxide b |
| ----  | ----                          | ----                 | ----   | ----                       | ----                 | 0.00              | 0.00           | ---    | Endosulfan I         |
| ----  | ----                          | ----                 | ----   | ----                       | ----                 | 0.00              | 0.00           | ---    | Dieldrin             |
| 6.431 | -0.021                        | 113784               | 7.320  | -0.022                     | 59198                | 9.21              | 3.42           | 91.7*  | 4,4'-DDE             |
| 7.051 | 0.009                         | 344480               | 7.886  | 0.010                      | 280550               | 38.72             | 22.47          | 53.1*  | Endrin               |
| 7.290 | 0.012                         | 19686                | 8.079  | -0.008                     | 137443               | 2.46              | 10.74          | 125.5* | Endosulfan II        |
| ----  | ----                          | ----                 | 7.927  | -0.022                     | 72010                | 0.00              | 5.93           | ---    | 4,4'-DDD             |
| ----  | ----                          | ----                 | 8.702  | 0.016                      | 202389               | 0.00              | 18.01          | ---    | Endosulfan sulfate   |
| ----  | ----                          | ----                 | 8.255  | -0.012                     | 469427               | 0.00              | 40.04          | ---    | 4,4'-DDT             |
| 7.894 | 0.017                         | 47287                | 8.926  | 0.017                      | 28219                | 13.18             | 5.44           | 83.1*  | Methoxychlor         |
| ----  | ----                          | ----                 | 9.199  | -0.011                     | 731436               | 0.00              | 60.25          | ---    | Endrin ketone        |
| 7.716 | 0.009                         | 221238               | 8.394  | -0.024                     | 181004               | 34.63             | 20.05          | 53.3*  | Endrin aldehyde      |
| 6.259 | 0.030                         | 9942                 | 7.040  | 0.015                      | 155694               | 0.73              | 8.05           | 167.0* | trans-Chlordane      |
| 6.381 | 0.005                         | 70801                | 7.163  | -0.022                     | 14532                | 5.15              | 0.77           | 148.1* | cis-Chlordane        |
| 2.279 | -0.024                        | 8229                 | 2.504  | 0.022                      | 3644                 | 0.44              | 0.14           | 100.9* | Hexachlorobutadiene  |
| ----  | ----                          | ----                 | ----   | ----                       | ----                 | 0.00              | 0.00           | ---    | Hexachlorobenzene    |
| 3.790 | -0.010                        | 332243               | 4.181  | -0.015                     | 493480               | 26.11             | 26.30          | 0.7    | Tetrachloro-m-xylene |
| 9.306 | -0.012                        | 245980               | 10.403 | -0.026                     | 347559               | 35.77             | 35.81          | 0.1    | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 672426         | 935539      | 39.1 |
| Hexabromobiphenyl  | 609723         | 678609      | 11.3 |

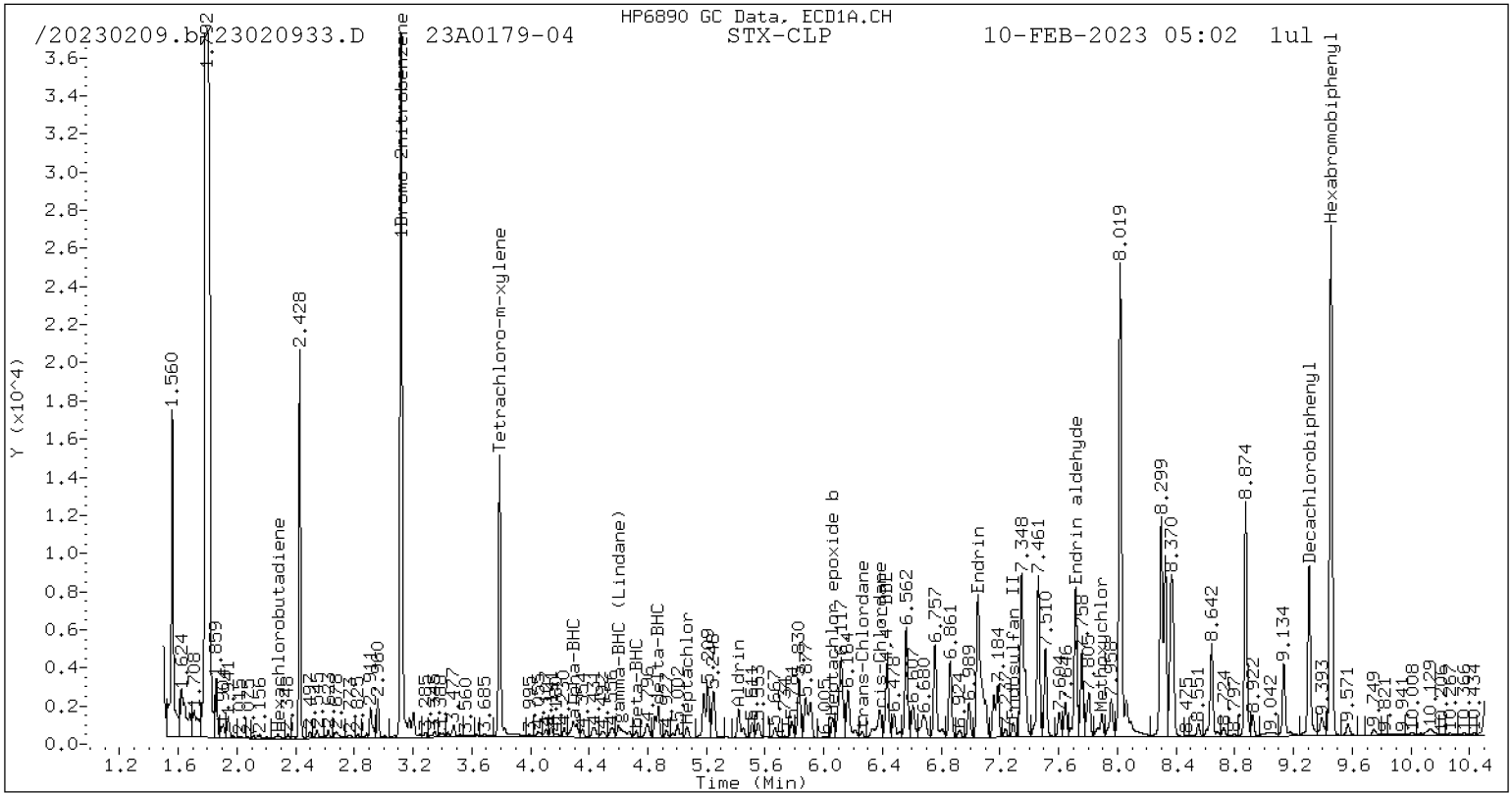
| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1006482        | 1332840     | 32.4 |
| Hexabromobiphenyl  | 769764         | 878184      | 14.1 |

\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

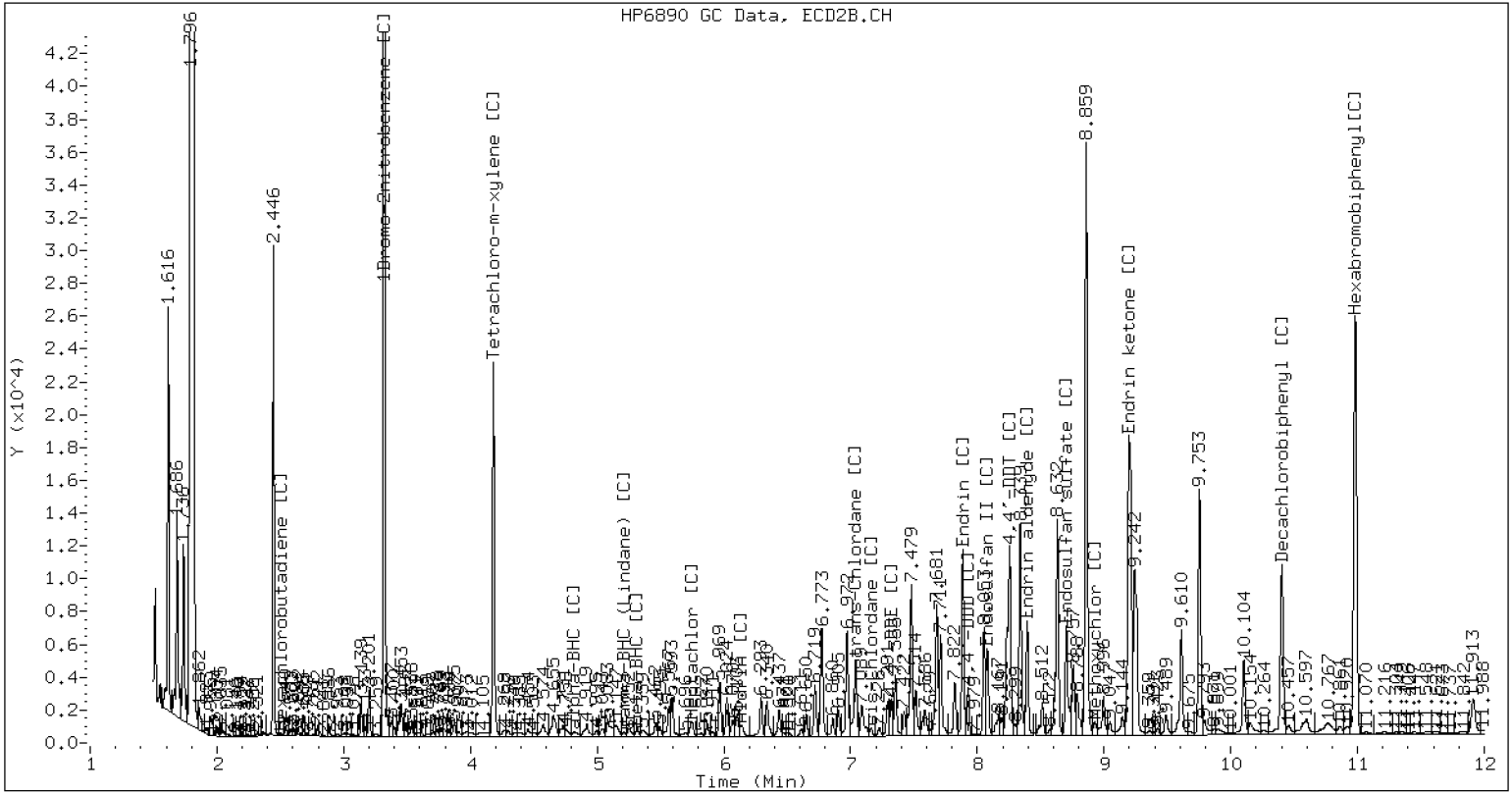
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230209.b/B20230209.b/23020933.D 23A0179-04 CLP2



CLP-2 Manual Integration: NO



**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8081B**

|  |  |  |
|--|--|--|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0179</u>                      |  |
| Client: <u>Anchor QEA, LLC</u>               |  |  |
| Project: <u>AOC5 MR Phase 1</u>              |  |  |
| Matrix: <u>Solid</u>                         | Laboratory ID: <u>23A0179-05 A</u>       | File ID: <u>23020934.D</u>                 |
| Sampled: <u>01/10/23 09:35</u>               | Prepared: <u>01/26/23 12:35</u>          | Analyzed: <u>02/10/23 05:20</u>            |
| % Solids: <u>67.40</u>                       | Preparation: <u>EPA 3546 (Microwave)</u> | Initial/Final: <u>18.79 g Wet / 2.5 mL</u> |
| Batch: <u>BLA0556</u>                        | Sequence: <u>SLB0156</u>                 | Calibration: <u>FL00041</u>                |
| Instrument: <u>ECD6</u>                      | Column 1: <u>STX-CLP</u>                 | Column 2: <u>STX-CLPII</u>                 |

| CAS NO.  | COMPOUND          | Col # | DILUTION | CONC. (ug/kg dry) | MDL  | MRL  | Q |
|----------|-------------------|-------|----------|-------------------|------|------|---|
| 118-74-1 | Hexachlorobenzene | 1     | 1        | 0.49              | 0.14 | 0.49 | U |

| SURROGATES                   | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i>    | 1     | 7.8961            | 6.94             | 87.9  | 30 - 160  |   |
| <i>Decachlorobiphenyl</i>    | 2     | 7.8961            | 7.00             | 88.6  | 30 - 160  |   |
| <i>Tetrachlorometaxylene</i> | 1     | 7.8961            | 5.91             | 74.9  | 30 - 160  |   |
| <i>Tetrachlorometaxylene</i> | 2     | 7.8961            | 5.03             | 63.7  | 30 - 160  |   |

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020934.D  
Data file 2: /20230209.b/B20230209.b/23020934.D  
Method: \20230209.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: AA/JR

ARI ID: 23A0179-05  
Client ID:  
Injection Date: 10-FEB-2023 05:20  
Report Date: 02/11/2023 07:16  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT     | CLP2 Col<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD   | Compound/Flag |                      |
|-------|-------------------------------|----------------------------|--------|----------------------------|-------------------|----------------|-------|---------------|----------------------|
| 4.291 | -0.020                        | 23840                      | 4.835  | 0.002                      | 6586              | 1.36           | 0.23  | 141.4*        | alpha-BHC            |
| 4.674 | -0.019                        | 5451                       | 5.316  | 0.007                      | 9148              | 0.81           | 0.85  | 5.4           | beta-BHC             |
| 4.871 | -0.005                        | 43685                      | 5.689  | 0.028                      | 5914              | 3.05           | 0.25  | 169.2*        | delta-BHC            |
| 4.601 | -0.010                        | 17350                      | 5.210  | -0.019                     | 4240              | 1.14           | 0.18  | 146.3*        | gamma-BHC (Lindane)  |
| 5.067 | -0.026                        | 11160                      | 5.746  | -0.009                     | 21893             | 0.83           | 1.01  | 20.0          | Heptachlor           |
| 5.419 | 0.005                         | 52055                      | 6.150  | -0.007                     | 50210             | 3.44           | 2.03  | 51.6*         | Aldrin               |
| 6.061 | -0.028                        | 27730                      | ----   | ----                       | ----              | 2.11           | 0.00  | ---           | Heptachlor epoxide b |
| ----  | ----                          | ----                       | ----   | ----                       | ----              | 0.00           | 0.00  | ---           | Endosulfan I         |
| 6.806 | 0.015                         | 13482                      | ----   | ----                       | ----              | 1.04           | 0.00  | ---           | Dieldrin             |
| 6.430 | -0.022                        | 97920                      | 7.355  | 0.013                      | 105444            | 8.15           | 5.77  | 34.2          | 4,4'-DDE             |
| 7.051 | 0.010                         | 196692                     | 7.865  | -0.011                     | 483015            | 21.67          | 0.00  | ---           | Endrin               |
| 7.290 | 0.012                         | 13925                      | ----   | ----                       | ----              | 1.70           | 0.00  | ---           | Endosulfan II        |
| ----  | ----                          | ----                       | ----   | ----                       | ----              | 0.00           | 0.00  | ---           | 4,4'-DDD             |
| ----  | ----                          | ----                       | 8.702  | 0.015                      | 39465             | 0.00           | 0.00  | ---           | Endosulfan sulfate   |
| ----  | ----                          | ----                       | 8.252  | -0.015                     | 414428            | 0.00           | 0.00  | ---           | 4,4'-DDT             |
| 7.893 | 0.016                         | 31521                      | ----   | ----                       | ----              | 8.61           | 0.00  | ---           | Methoxychlor         |
| ----  | ----                          | ----                       | 9.207  | -0.003                     | 203187            | 0.00           | 0.00  | ---           | Endrin ketone        |
| 7.715 | 0.008                         | 38317                      | 8.392  | -0.026                     | 45347             | 5.88           | 0.00  | ---           | Endrin aldehyde      |
| ----  | ----                          | ----                       | 7.040  | 0.015                      | 121412            | 0.00           | 5.95  | ---           | trans-Chlordane      |
| 6.381 | 0.005                         | 51836                      | 7.162  | -0.023                     | 8357              | 3.88           | 0.42  | 161.0*        | cis-Chlordane        |
| 2.278 | -0.026                        | 6474                       | 2.504  | 0.022                      | 4057              | 0.35           | 0.15  | 79.9*         | Hexachlorobutadiene  |
| 4.142 | -0.011                        | 12042                      | ----   | ----                       | ----              | 0.74           | 0.00  | ---           | Hexachlorobenzene    |
| 3.791 | -0.009                        | 370407                     | 4.182  | -0.015                     | 504878            | 29.94          | 25.49 | 16.1          | Tetrachloro-m-xylene |
| 9.305 | -0.014                        | 246728                     | 10.403 | -0.027                     | 349174            | 35.17          | 0.00  | ---           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits



INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 672426         | 909681      | 35.3 |
| Hexabromobiphenyl  | 609723         | 692451      | 13.6 |

| Column 2           |                |             |           |
|--------------------|----------------|-------------|-----------|
| Standard Cpnd      | Standard Area* | Sample Area | %D        |
| Bromo-Nitrobenzene | 1006482        | 1407346     | 39.8      |
| Hexabromobiphenyl  | 769764         | 0           | -100.0 <- |

\* Standard Areas taken from Initial Cal Level 5

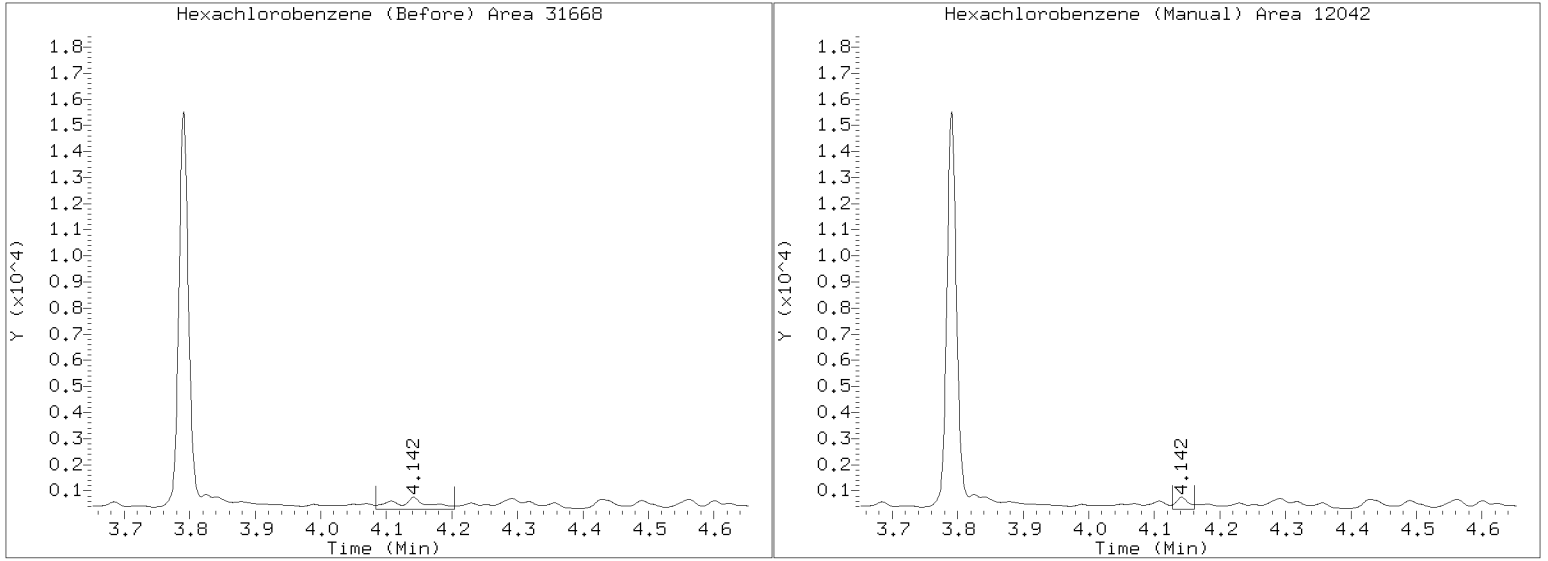
Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)



Manual Peak Adjustment Report, STX-CLP

Datafile: /20230209.b/23020934.D  
Injection Date: 10-FEB-2023 05:20  
Lab ID:23A0179-05 Client ID:  
Report Date: 02/11/2023 07:16

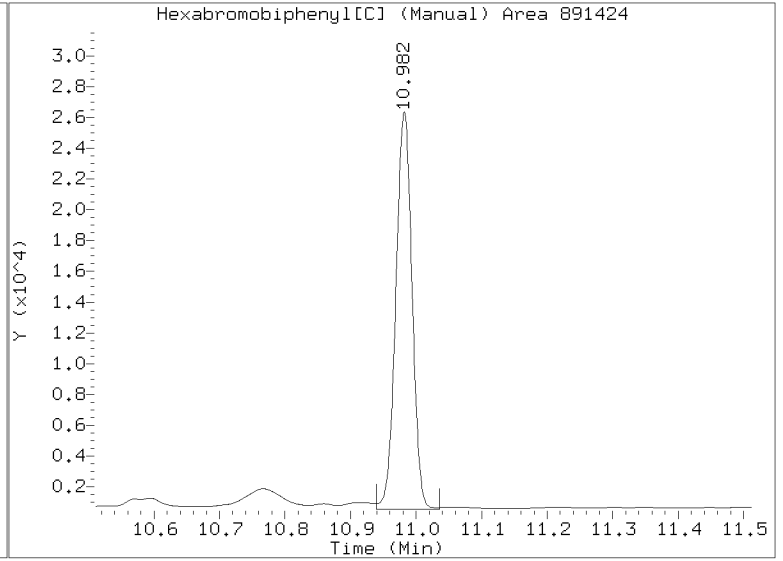
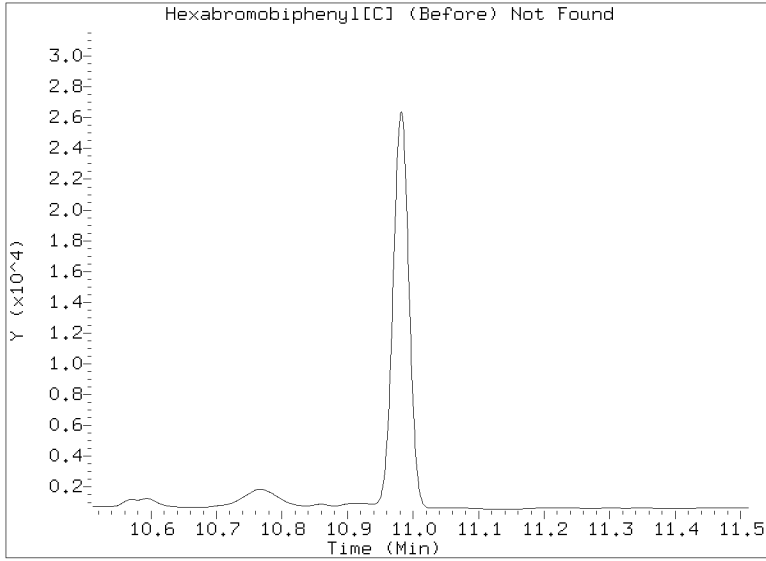


Manual Peak Adjustment Report, CLP-2

Datafile: /20230209.b/B20230209.b/23020934.D

Injection Date: 10-FEB-2023 05:20

Lab ID:23A0179-05 Client ID:





**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8081B**

|  |  |
|--|--|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0179</u>                        |
| Client: <u>Anchor QEA, LLC</u>               |  |
| Project: <u>AOC5 MR Phase 1</u>              |  |
| Matrix: <u>Solid</u>                         | Laboratory ID: <u>23A0179-06 A</u>         |
|  | File ID: <u>23020935.D</u>                 |
| Sampled: <u>01/10/23 09:54</u>               | Prepared: <u>01/26/23 12:35</u>            |
|  | Analyzed: <u>02/10/23 05:38</u>            |
| % Solids: <u>53.98</u>                       | Preparation: <u>EPA 3546 (Microwave)</u>   |
|  | Initial/Final: <u>23.98 g Wet / 2.5 mL</u> |
| Batch: <u>BLA0556</u>                        | Sequence: <u>SLB0156</u>                   |
|  | Calibration: <u>FL00041</u>                |
| Instrument: <u>ECD6</u>                      | Column 1: <u>STX-CLP</u>                   |
|  | Column 2: <u>STX-CLPII</u>                 |

| CAS NO.  | COMPOUND          | Col # | DILUTION | CONC. (ug/kg dry) | MDL  | MRL  | Q |
|----------|-------------------|-------|----------|-------------------|------|------|---|
| 118-74-1 | Hexachlorobenzene | 1     | 1        | 0.48              | 0.14 | 0.48 | U |

| SURROGATES                   | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i>    | 1     | 7.7253            | 7.00             | 90.6  | 30 - 160  |   |
| <i>Decachlorobiphenyl</i>    | 2     | 7.7253            | 6.92             | 89.6  | 30 - 160  |   |
| <i>Tetrachlorometaxylene</i> | 1     | 7.7253            | 5.55             | 71.9  | 30 - 160  |   |
| <i>Tetrachlorometaxylene</i> | 2     | 7.7253            | 5.22             | 67.6  | 30 - 160  |   |

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020935.D  
Data file 2: /20230209.b/B20230209.b/23020935.D  
Method: \20230209.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: AA/JR

ARI ID: 23A0179-06  
Client ID:  
Injection Date: 10-FEB-2023 05:38  
Report Date: 02/11/2023 12:40  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col |        |          | CLP2 Col |        |          | STX-CLP | CLP2   | RPD    | Compound/Flag        |
|-------------|--------|----------|----------|--------|----------|---------|--------|--------|----------------------|
| RT          | Shift  | Response | RT       | Shift  | Response | on col  | on col |        |                      |
| 4.312       | 0.001  | 67357    | 4.834    | 0.002  | 14189    | 3.74    | 0.52   | 151.4* | alpha-BHC            |
| 4.719       | 0.027  | 9840     | 5.316    | 0.007  | 18645    | 1.42    | 1.79   | 22.9   | beta-BHC             |
| 4.870       | -0.005 | 108509   | ----     |        |          | 7.37    | 0.00   | ---    | delta-BHC            |
| 4.601       | -0.010 | 51456    | 5.211    | -0.018 | 8561     | 3.30    | 0.37   | 159.9* | gamma-BHC (Lindane)  |
| 5.066       | -0.027 | 27480    | 5.747    | -0.008 | 61576    | 1.98    | 2.92   | 38.4   | Heptachlor           |
| 5.418       | 0.004  | 83905    | 6.142    | -0.016 | 40908    | 5.39    | 1.70   | 104.2* | Aldrin               |
| 6.117       | 0.029  | 233784   | ----     |        |          | 17.32   | 0.00   | ---    | Heptachlor epoxide b |
| ----        |        |          | ----     |        |          | 0.00    | 0.00   | ---    | Endosulfan I         |
| 6.805       | 0.015  | 17353    | ----     |        |          | 1.30    | 0.00   | ---    | Dieldrin             |
| 6.431       | -0.021 | 134529   | 7.320    | -0.022 | 142890   | 10.89   | 8.03   | 30.2   | 4,4'-DDE             |
| 7.051       | 0.010  | 286723   | 7.886    | 0.010  | 210335   | 30.64   | 16.13  | 62.0*  | Endrin               |
| 7.290       | 0.012  | 18725    | ----     |        |          | 2.22    | 0.00   | ---    | Endosulfan II        |
| ----        |        |          | 7.927    | -0.022 | 105004   | 0.00    | 0.00   | ---    | 4,4'-DDD             |
| 8.138       | -0.002 | 51595    | 8.702    | 0.016  | 54162    | 6.45    | 4.61   | 33.2   | Endosulfan sulfate   |
| ----        |        |          | 8.254    | -0.012 | 438859   | 0.00    | 35.85  | ---    | 4,4'-DDT             |
| 7.895       | 0.018  | 73583    | ----     |        |          | 19.49   | 0.00   | ---    | Methoxychlor         |
| ----        |        |          | 9.206    | -0.003 | 294980   | 0.00    | 23.27  | ---    | Endrin ketone        |
| 7.716       | 0.009  | 57191    | 8.391    | -0.027 | 90605    | 8.51    | 9.61   | 12.1   | Endrin aldehyde      |
| 6.259       | 0.030  | 8937     | 7.038    | 0.013  | 191475   | 0.65    | 9.64   | 174.7* | trans-Chlordane      |
| 6.381       | 0.005  | 83130    | 7.162    | -0.023 | 16641    | 6.05    | 0.86   | 150.4* | cis-Chlordane        |
| 2.294       | -0.009 | 54393    | ----     |        |          | 2.88    | 0.00   | ---    | Hexachlorobutadiene  |
| ----        |        |          | ----     |        |          | 0.00    | 0.00   | ---    | Hexachlorobenzene    |
| 3.790       | -0.010 | 365642   | 4.181    | -0.015 | 521368   | 28.75   | 27.04  | 6.1    | Tetrachloro-m-xylene |
| 9.306       | -0.013 | 262180   | 10.402   | -0.027 | 363343   | 36.25   | 35.85  | 1.1    | Decachlorobiphenyl N |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 672426         | 935228      | 39.1 |
| Hexabromobiphenyl  | 609723         | 713832      | 17.1 |

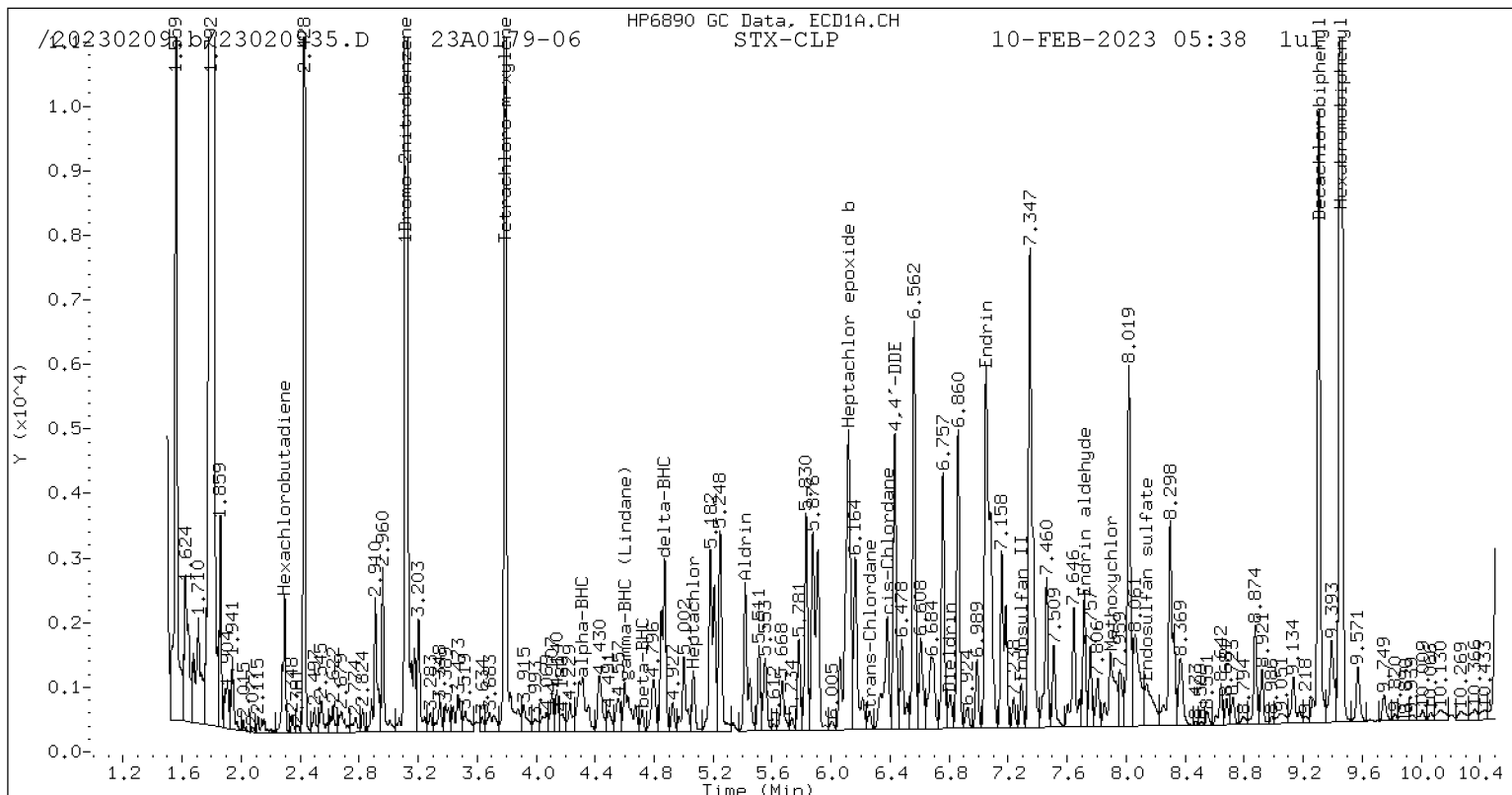
| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1006482        | 1369832     | 36.1 |
| Hexabromobiphenyl  | 769764         | 917054      | 19.1 |

\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

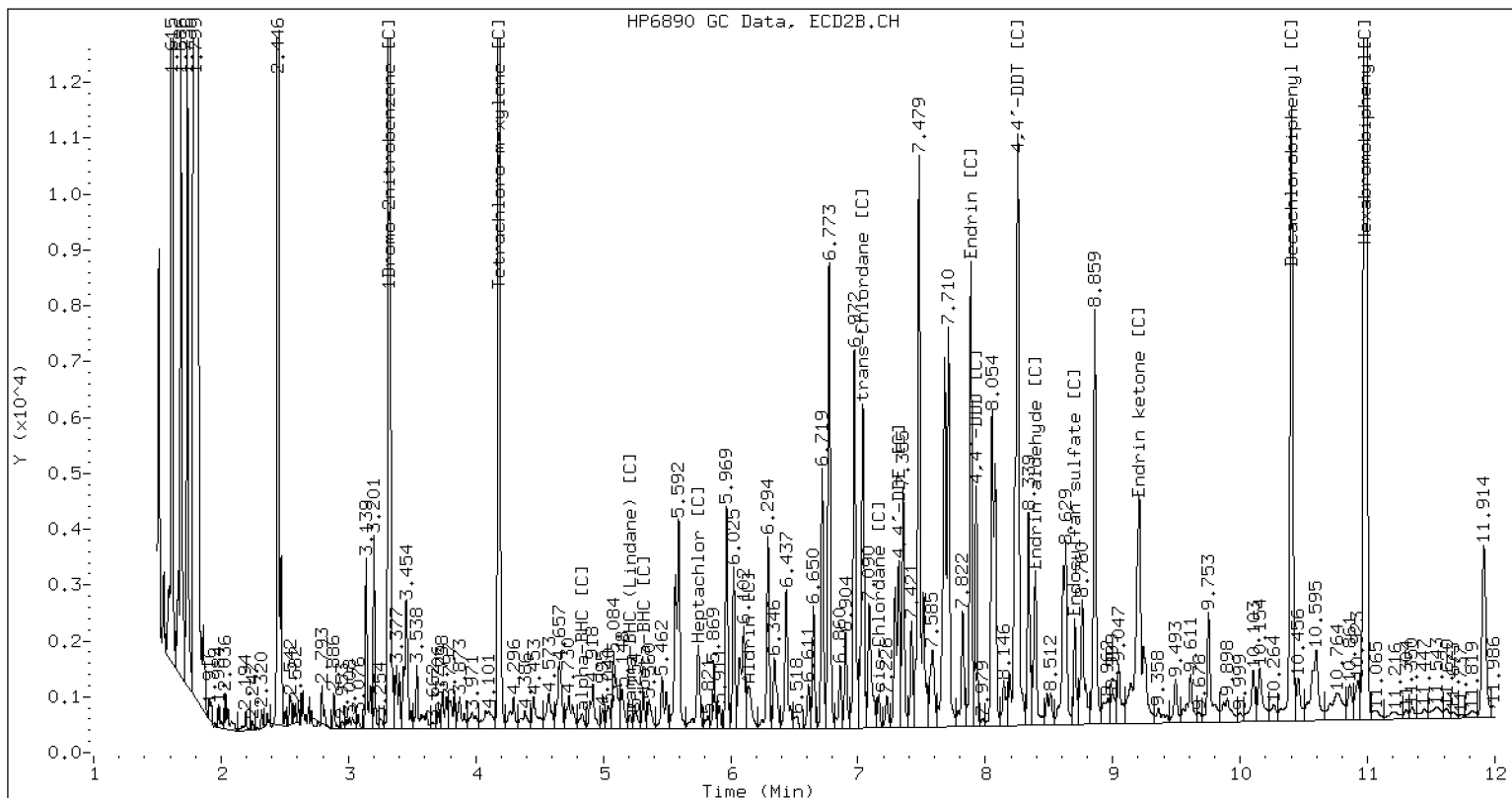
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230209.b/B20230209.b/23020935.D 23A0179-06 CLP2



CLP-2 Manual Integration: YES

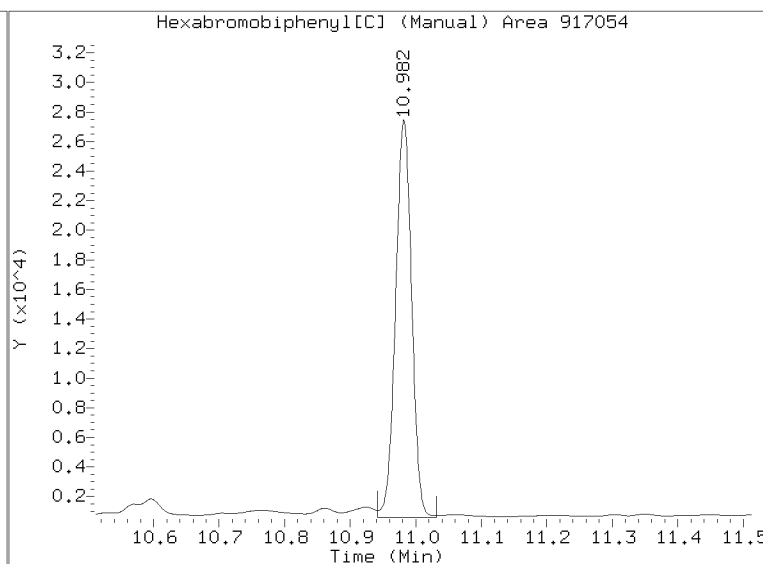
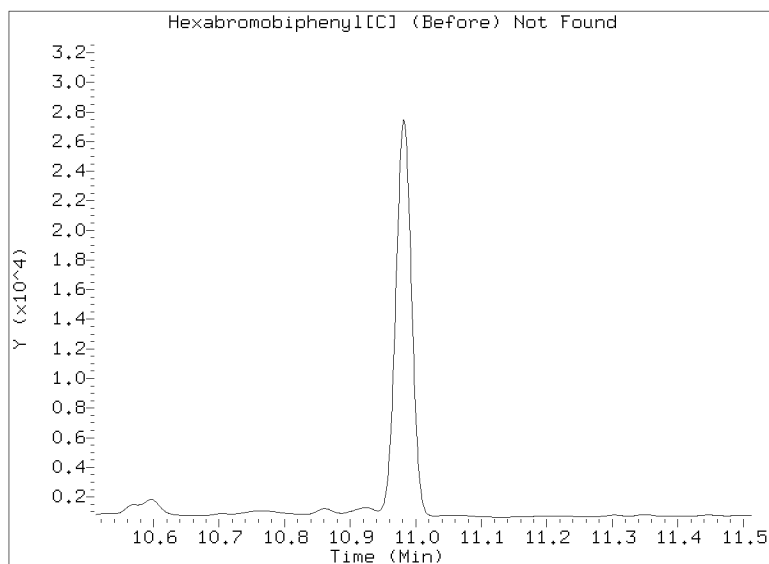
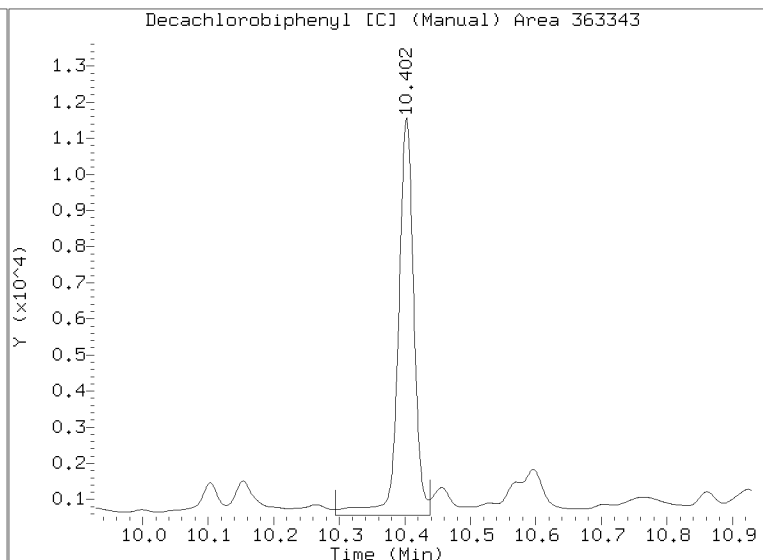
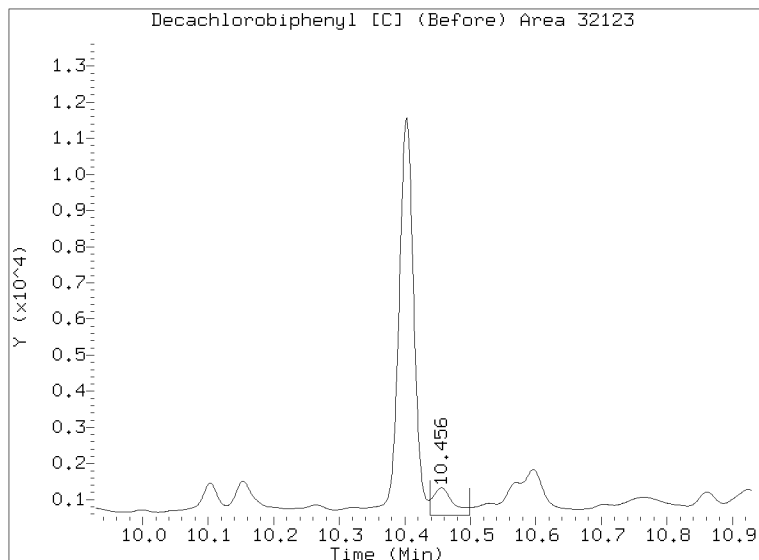


# Manual Peak Adjustment Report, CLP-2

Datafile: /20230209.b/B20230209.b/23020935.D

Injection Date: 10-FEB-2023 05:38

Lab ID:23A0179-06 Client ID:





Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020938.D  
Data file 2: /20230209.b/B20230209.b/23020938.D  
Method: \20230209.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: AA/JR

ARI ID: 23A0179-07  
Client ID:  
Injection Date: 10-FEB-2023 06:32  
Report Date: 02/11/2023 06:18  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT     | CLP2 Col<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD   | Compound/Flag |                      |
|-------|-------------------------------|----------------------------|--------|----------------------------|-------------------|----------------|-------|---------------|----------------------|
| 4.293 | -0.018                        | 30377                      | 4.817  | -0.016                     | 11088             | 1.71           | 0.38  | 126.9*        | alpha-BHC            |
| 4.719 | 0.026                         | 9344                       | 5.315  | 0.006                      | 2867              | 1.37           | 0.26  | 136.0*        | beta-BHC             |
| 4.868 | -0.007                        | 12752                      | ----   | ----                       | ----              | 0.88           | 0.00  | ---           | delta-BHC            |
| 4.603 | -0.009                        | 26765                      | 5.253  | 0.024                      | 17202             | 1.74           | 0.70  | 85.3*         | gamma-BHC (Lindane)  |
| 5.071 | -0.021                        | 5113                       | 5.742  | -0.012                     | 7143              | 0.37           | 0.32  | 15.2          | Heptachlor           |
| ----  | ----                          | ----                       | 6.139  | -0.019                     | 32529             | 0.00           | 1.28  | ---           | Aldrin               |
| 6.060 | -0.029                        | 6656                       | ----   | ----                       | ----              | 0.50           | 0.00  | ---           | Heptachlor epoxide b |
| ----  | ----                          | ----                       | ----   | ----                       | ----              | 0.00           | 0.00  | ---           | Endosulfan I         |
| ----  | ----                          | ----                       | ----   | ----                       | ----              | 0.00           | 0.00  | ---           | Dieldrin             |
| 6.429 | -0.022                        | 20145                      | 7.354  | 0.013                      | 36477             | 1.66           | 1.94  | 16.0          | 4,4'-DDE             |
| 7.050 | 0.009                         | 49284                      | 7.886  | 0.010                      | 50515             | 5.19           | 0.00  | ---           | Endrin               |
| 7.289 | 0.011                         | 2915                       | ----   | ----                       | ----              | 0.34           | 0.00  | ---           | Endosulfan II        |
| ----  | ----                          | ----                       | 7.973  | 0.024                      | 1083              | 0.00           | 0.00  | ---           | 4,4'-DDD             |
| ----  | ----                          | ----                       | 8.702  | 0.015                      | 14757             | 0.00           | 0.00  | ---           | Endosulfan sulfate   |
| ----  | ----                          | ----                       | 8.254  | -0.012                     | 73195             | 0.00           | 0.00  | ---           | 4,4'-DDT             |
| 7.892 | 0.015                         | 6206                       | ----   | ----                       | ----              | 1.62           | 0.00  | ---           | Methoxychlor         |
| ----  | ----                          | ----                       | 9.204  | -0.006                     | 77685             | 0.00           | 0.00  | ---           | Endrin ketone        |
| 7.715 | 0.008                         | 12382                      | 8.393  | -0.025                     | 12537             | 1.82           | 0.00  | ---           | Endrin aldehyde      |
| ----  | ----                          | ----                       | 7.040  | 0.015                      | 28101             | 0.00           | 1.34  | ---           | trans-Chlordane      |
| 6.380 | 0.005                         | 14331                      | 7.162  | -0.023                     | 1770              | 1.06           | 0.09  | 169.8*        | cis-Chlordane        |
| 2.277 | -0.027                        | 5325                       | 2.505  | 0.022                      | 4537              | 0.29           | 0.17  | 53.8*         | Hexachlorobutadiene  |
| 4.142 | -0.011                        | 26519                      | ----   | ----                       | ----              | 1.61           | 0.00  | ---           | Hexachlorobenzene    |
| 3.790 | -0.010                        | 349527                     | 4.181  | -0.015                     | 515574            | 27.91          | 25.36 | 9.6           | Tetrachloro-m-xylene |
| 9.305 | -0.013                        | 228882                     | 10.402 | -0.027                     | 334831            | 31.17          | 0.00  | ---           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 672426         | 920883      | 36.9 |
| Hexabromobiphenyl  | 609723         | 724642      | 18.8 |

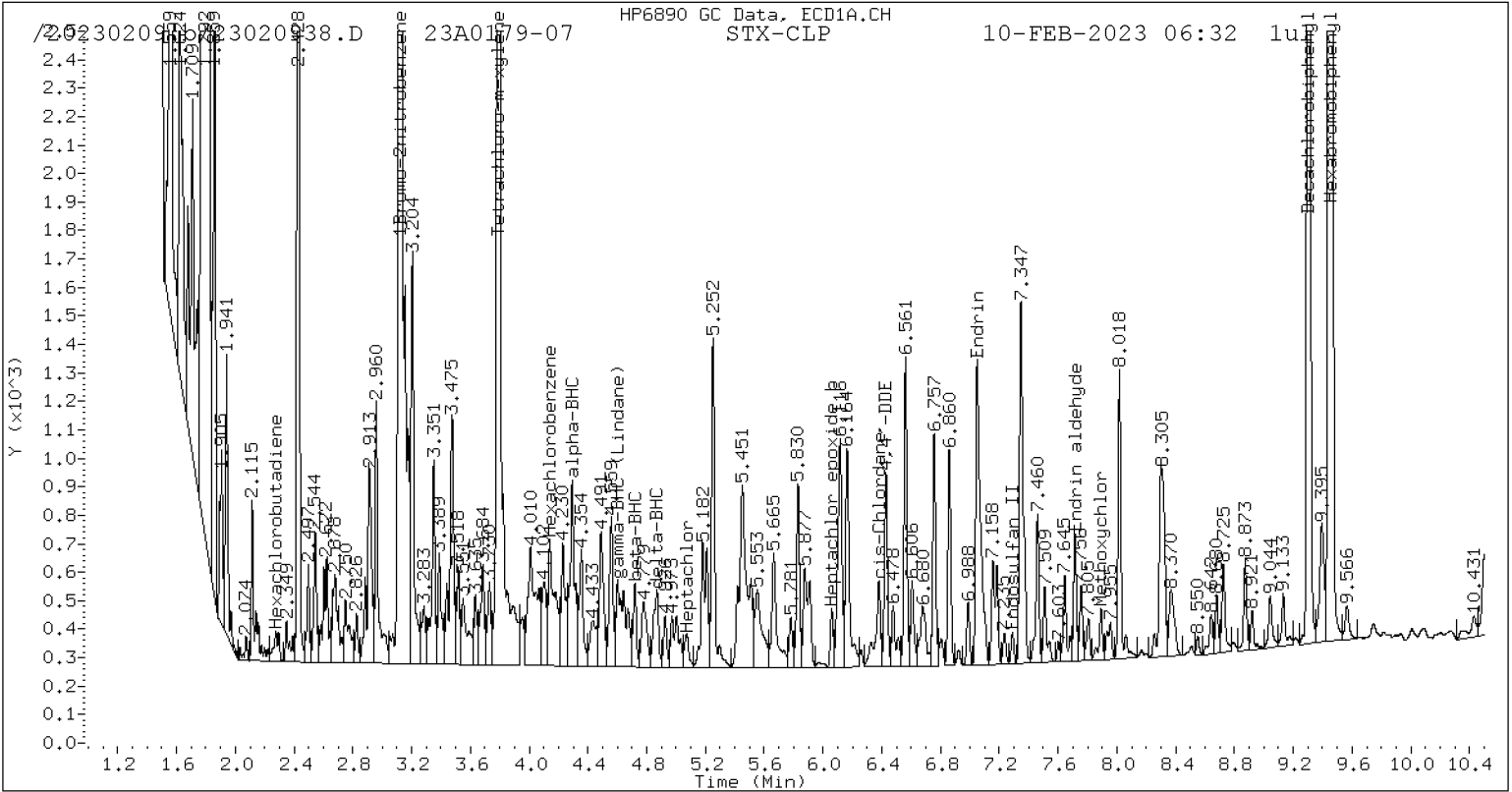
| Column 2           |                |             |           |
|--------------------|----------------|-------------|-----------|
| Standard Cpnd      | Standard Area* | Sample Area | %D        |
| Bromo-Nitrobenzene | 1006482        | 1444108     | 43.5      |
| Hexabromobiphenyl  | 769764         | 0           | -100.0 <- |

\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

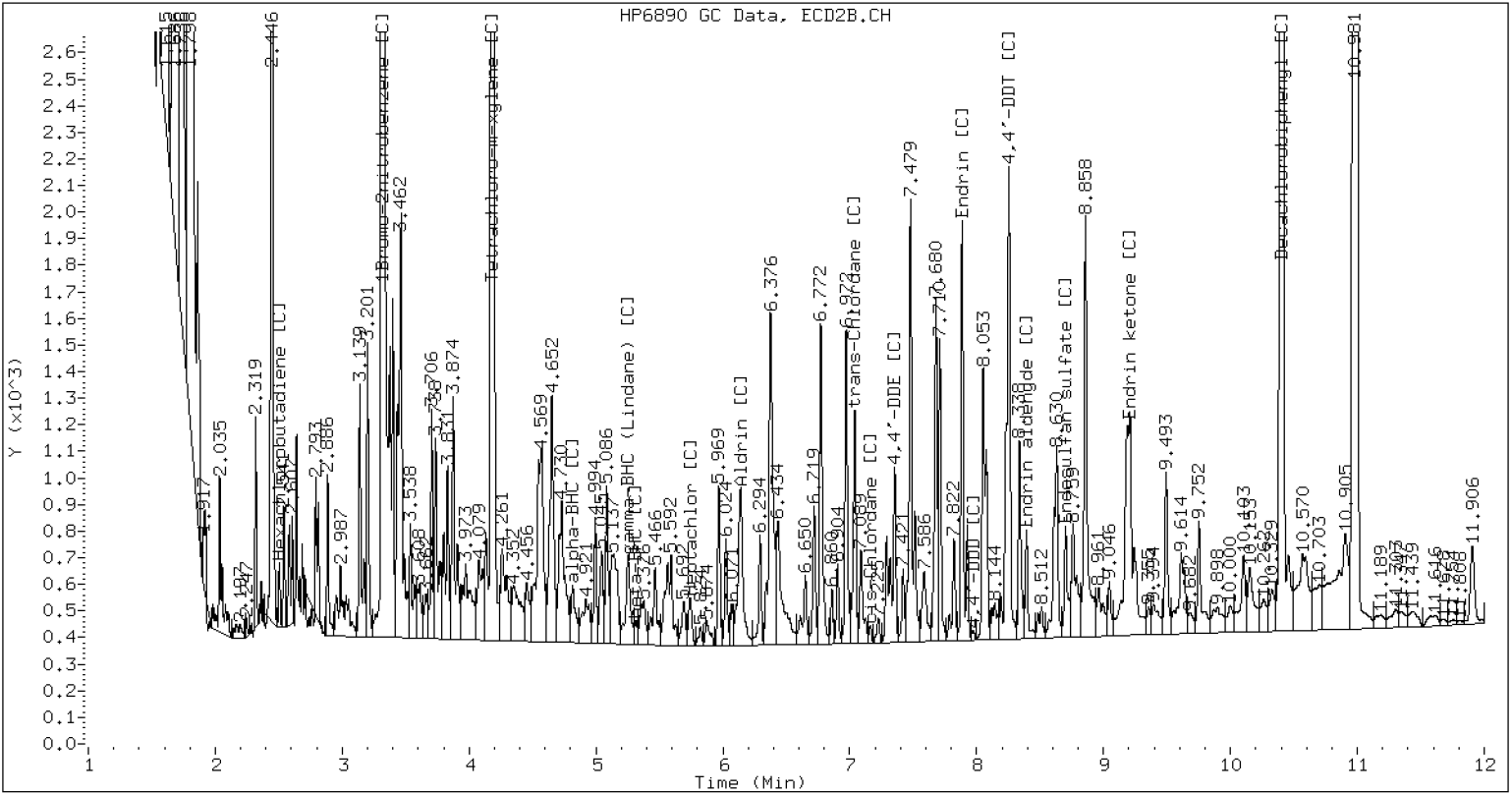
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230209.b/B20230209.b/23020938.D 23A0179-07 CLP2



CLP-2 Manual Integration: NO



**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8081B**

|  |  |
|--|--|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0179</u>                        |
| Client: <u>Anchor QEA, LLC</u>               |  |
| Project: <u>AOC5 MR Phase 1</u>              |  |
| Matrix: <u>Solid</u>                         | Laboratory ID: <u>23A0179-08 A</u>         |
|  | File ID: <u>23020939.D</u>                 |
| Sampled: <u>01/10/23 10:56</u>               | Prepared: <u>01/26/23 12:35</u>            |
|  | Analyzed: <u>02/10/23 06:49</u>            |
| % Solids: <u>61.36</u>                       | Preparation: <u>EPA 3546 (Microwave)</u>   |
|  | Initial/Final: <u>21.06 g Wet / 2.5 mL</u> |
| Batch: <u>BLA0556</u>                        | Sequence: <u>SLB0156</u>                   |
|  | Calibration: <u>FL00041</u>                |
| Instrument: <u>ECD6</u>                      | Column 1: <u>STX-CLP</u>                   |
|  | Column 2: <u>STX-CLPII</u>                 |

| CAS NO.  | COMPOUND          | Col # | DILUTION | CONC. (ug/kg dry) | MDL  | MRL  | Q |
|----------|-------------------|-------|----------|-------------------|------|------|---|
| 118-74-1 | Hexachlorobenzene | 1     | 1        | 0.48              | 0.14 | 0.48 | U |

| SURROGATES                   | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i>    | 1     | 7.7385            | 6.66             | 86.1  | 30 - 160  |   |
| <i>Decachlorobiphenyl</i>    | 2     | 7.7385            | 6.30             | 81.4  | 30 - 160  |   |
| <i>Tetrachlorometaxylene</i> | 1     | 7.7385            | 5.20             | 67.1  | 30 - 160  |   |
| <i>Tetrachlorometaxylene</i> | 2     | 7.7385            | 5.18             | 66.9  | 30 - 160  |   |

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020939.D  
Data file 2: /20230209.b/B20230209.b/23020939.D  
Method: \20230209.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: AA/JR

ARI ID: 23A0179-08  
Client ID:  
Injection Date: 10-FEB-2023 06:49  
Report Date: 02/11/2023 07:17  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Response | RT     | CLP2 Col<br>Shift Response | CLP2 Col<br>Response | STX-CLP<br>on col | CLP2<br>on col | RPD    | Compound/Flag        |
|-------|-------------------------------|----------------------|--------|----------------------------|----------------------|-------------------|----------------|--------|----------------------|
| 4.292 | -0.019                        | 22930                | 4.834  | 0.001                      | 10995                | 1.37              | 0.41           | 107.4* | alpha-BHC            |
| 4.674 | -0.019                        | 19573                | 5.316  | 0.007                      | 15977                | 3.03              | 1.57           | 63.3*  | beta-BHC             |
| 4.871 | -0.005                        | 79105                | 5.669  | 0.008                      | 1839                 | 5.77              | 0.08           | 194.3* | delta-BHC            |
| 4.601 | -0.010                        | 16263                | 5.209  | -0.020                     | 6275                 | 1.12              | 0.28           | 120.6* | gamma-BHC (Lindane)  |
| 5.066 | -0.027                        | 23163                | 5.747  | -0.008                     | 32361                | 1.79              | 1.58           | 12.7   | Heptachlor           |
| 5.418 | 0.004                         | 38081                | 6.136  | -0.022                     | 20373                | 2.63              | 0.87           | 100.5* | Aldrin               |
| 6.117 | 0.029                         | 152505               | 6.828  | 0.013                      | 3407                 | 12.13             | 0.18           | 194.3* | Heptachlor epoxide b |
| ----  |                               |                      | ----   |                            |                      | 0.00              | 0.00           | ---    | Endosulfan I         |
| 6.805 | 0.014                         | 12106                | ----   |                            |                      | 0.98              | 0.00           | ---    | Dieldrin             |
| 6.431 | -0.021                        | 91571                | 7.319  | -0.023                     | 51300                | 7.96              | 2.96           | 91.4*  | 4,4'-DDE             |
| 7.050 | 0.009                         | 195712               | 7.886  | 0.010                      | 162406               | 21.05             | 0.00           | ---    | Endrin               |
| 7.290 | 0.012                         | 13850                | 8.076  | -0.011                     | 79951                | 1.66              | 0.00           | ---    | Endosulfan II        |
| ----  |                               |                      | 7.927  | -0.022                     | 55220                | 0.00              | 0.00           | ---    | 4,4'-DDD             |
| 8.120 | -0.021                        | 9351                 | 8.701  | 0.015                      | 38645                | 1.18              | 0.00           | ---    | Endosulfan sulfate   |
| ----  |                               |                      | 8.254  | -0.012                     | 293389               | 0.00              | 0.00           | ---    | 4,4'-DDT             |
| 7.893 | 0.016                         | 26570                | 8.926  | 0.017                      | 9277                 | 7.09              | 0.00           | ---    | Methoxychlor         |
| ----  |                               |                      | 9.208  | -0.002                     | 122959               | 0.00              | 0.00           | ---    | Endrin ketone        |
| 7.715 | 0.009                         | 48770                | 8.393  | -0.026                     | 45691                | 7.31              | 0.00           | ---    | Endrin aldehyde      |
| 6.212 | -0.017                        | 12698                | 7.039  | 0.013                      | 111627               | 0.99              | 5.78           | 141.2* | trans-Chlordane      |
| 6.380 | 0.005                         | 59009                | 7.162  | -0.023                     | 12402                | 4.61              | 0.66           | 150.2* | cis-Chlordane        |
| 2.276 | -0.028                        | 8144                 | 2.503  | 0.021                      | 4163                 | 0.46              | 0.16           | 95.4*  | Hexachlorobutadiene  |
| ----  |                               |                      | ----   |                            |                      | 0.00              | 0.00           | ---    | Hexachlorobenzene    |
| 3.790 | -0.010                        | 318112               | 4.181  | -0.015                     | 501864               | 26.86             | 26.76          | 0.3    | Tetrachloro-m-xylene |
| 9.306 | -0.013                        | 247288               | 10.402 | -0.027                     | 328697               | 34.42             | 0.00           | ---    | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 672426         | 870981      | 29.5 |
| Hexabromobiphenyl  | 609723         | 709017      | 16.3 |

| Column 2           |                |             |           |
|--------------------|----------------|-------------|-----------|
| Standard Cpnd      | Standard Area* | Sample Area | %D        |
| Bromo-Nitrobenzene | 1006482        | 1332115     | 32.4      |
| Hexabromobiphenyl  | 769764         | 0           | -100.0 <- |

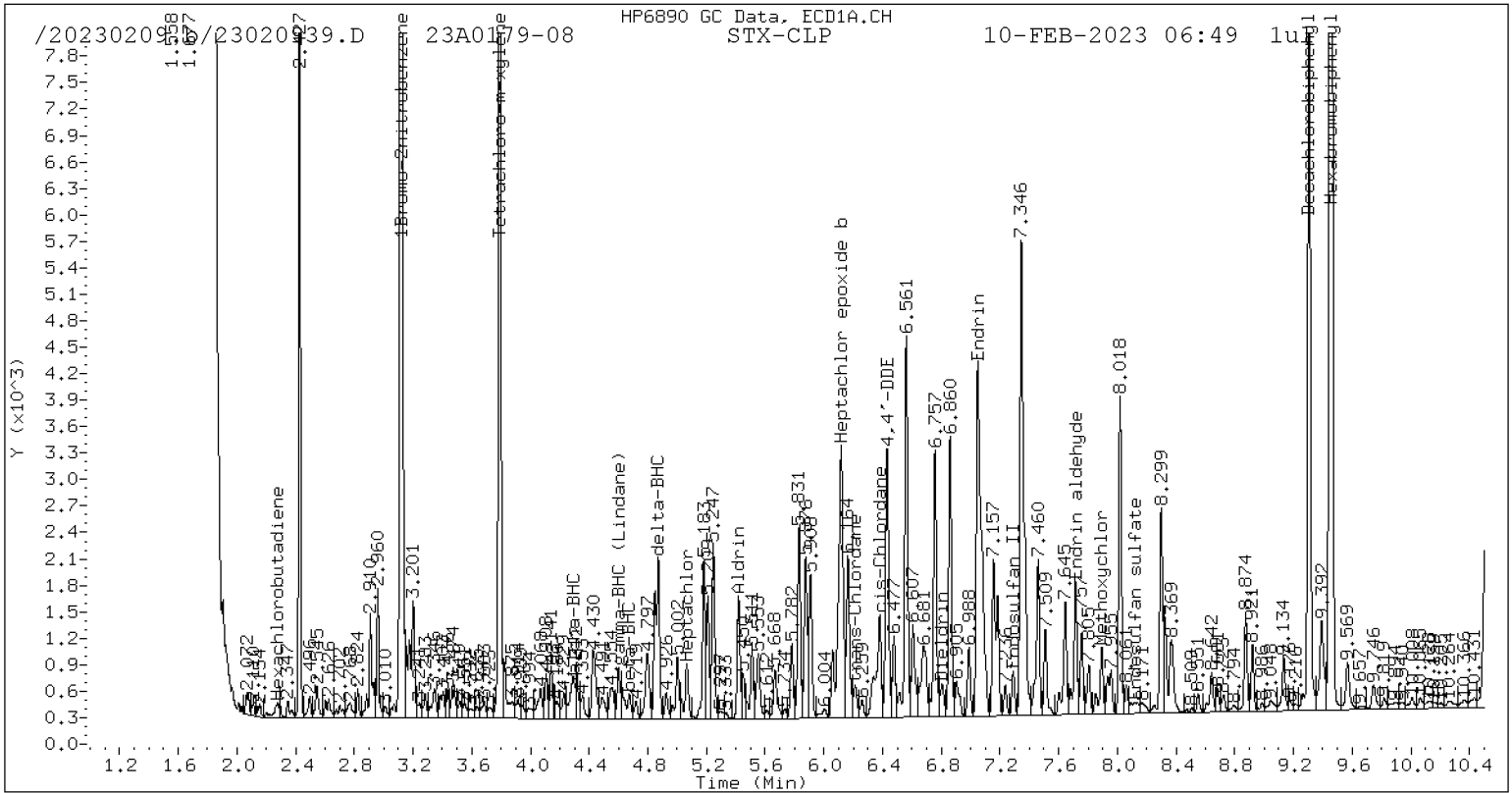
\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

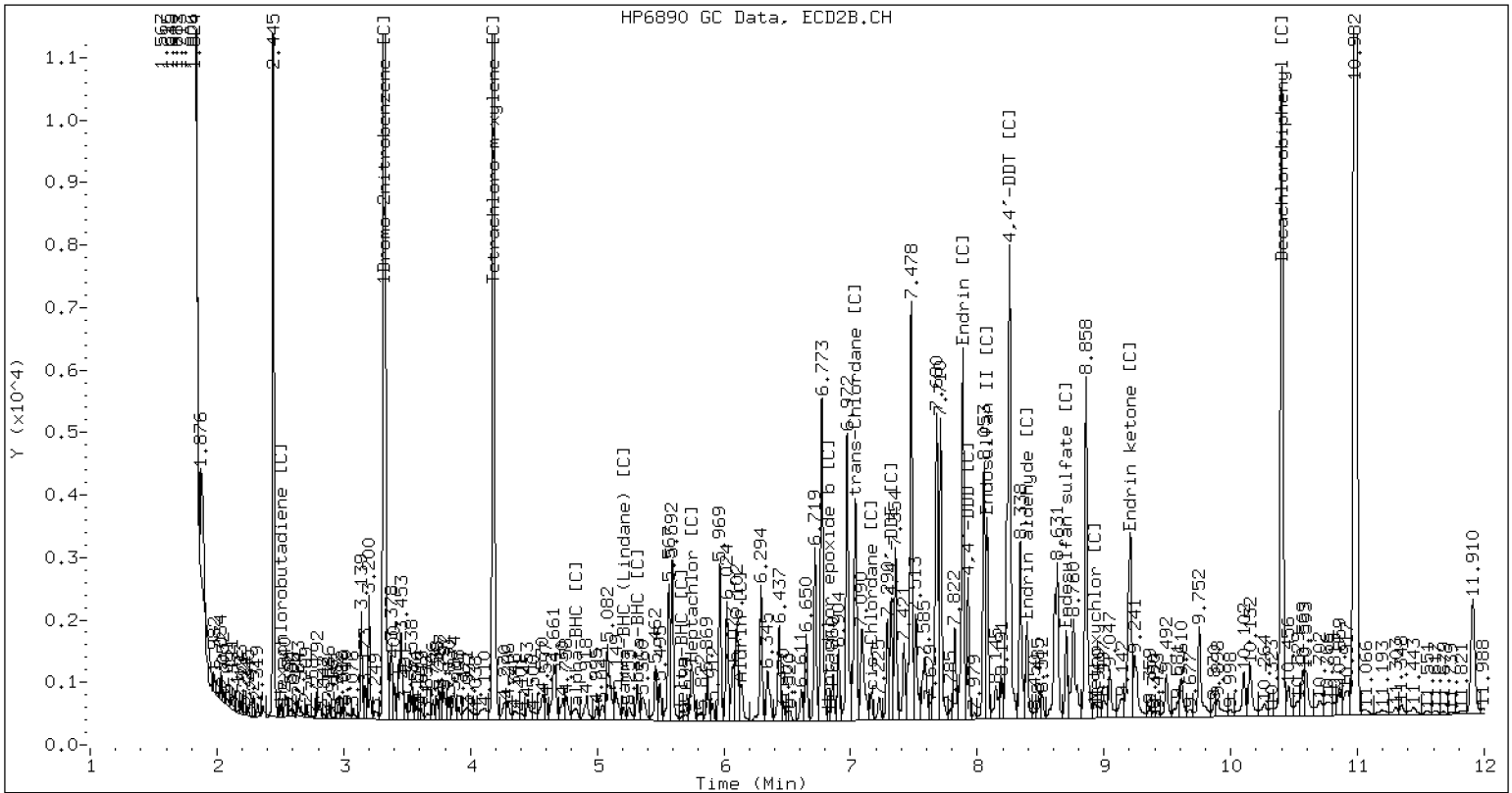


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230209.b/B20230209.b/23020939.D 23A0179-08 CLP2



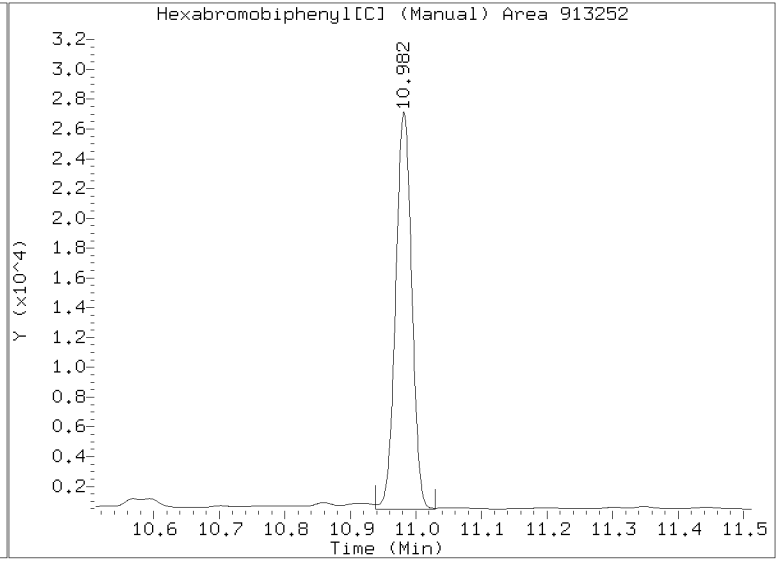
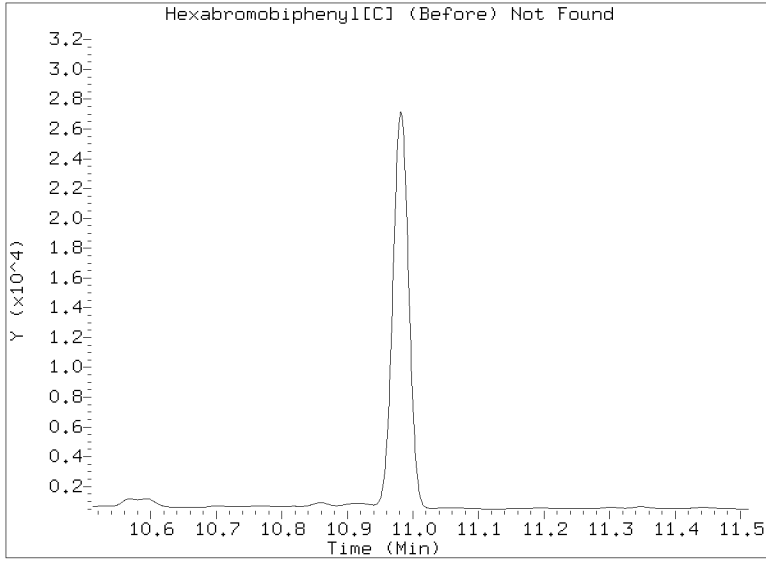
CLP-2 Manual Integration: NO

Manual Peak Adjustment Report, CLP-2

Datafile: /20230209.b/B20230209.b/23020939.D

Injection Date: 10-FEB-2023 06:49

Lab ID:23A0179-08 Client ID:





**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8081B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: 23A0179-09 A

File ID: 23020940.D

Sampled: 01/10/23 11:08

Prepared: 01/26/23 12:35

Analyzed: 02/10/23 07:07

% Solids: 53.02

Preparation: EPA 3546 (Microwave)

Initial/Final: 23.6 g Wet / 2.5 mL

Batch: BLA0556

Sequence: SLB0156

Calibration: FL00041

Instrument: ECD6

Column 1: STX-CLP

Column 2: STX-CLPII

| CAS NO.  | COMPOUND          | Col # | DILUTION | CONC. (ug/kg dry) | MDL  | MRL  | Q |
|----------|-------------------|-------|----------|-------------------|------|------|---|
| 118-74-1 | Hexachlorobenzene | 1     | 1        | 0.50              | 0.14 | 0.50 | U |

| SURROGATES                   | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i>    | 1     | 7.9919            | 8.29             | 104   | 30 - 160  |   |
| <i>Decachlorobiphenyl</i>    | 2     | 7.9919            | 7.63             | 95.5  | 30 - 160  |   |
| <i>Tetrachlorometaxylene</i> | 1     | 7.9919            | 5.70             | 71.3  | 30 - 160  |   |
| <i>Tetrachlorometaxylene</i> | 2     | 7.9919            | 5.86             | 73.3  | 30 - 160  |   |

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020940.D  
Data file 2: /20230209.b/B20230209.b/23020940.D  
Method: \20230209.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: AA/JR

ARI ID: 23A0179-09  
Client ID:  
Injection Date: 10-FEB-2023 07:07  
Report Date: 02/11/2023 07:18  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT     | CLP2 Col<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD   | Compound/Flag |                      |
|-------|-------------------------------|----------------------------|--------|----------------------------|-------------------|----------------|-------|---------------|----------------------|
| 4.286 | -0.024                        | 18125                      | 4.833  | 0.000                      | 12243             | 1.07           | 0.46  | 78.9*         | alpha-BHC            |
| 4.674 | -0.019                        | 7257                       | 5.315  | 0.006                      | 19687             | 1.11           | 1.96  | 55.4*         | beta-BHC             |
| 4.871 | -0.005                        | 104442                     | 5.669  | 0.008                      | 3224              | 7.51           | 0.15  | 192.3*        | delta-BHC            |
| 4.601 | -0.011                        | 30120                      | 5.208  | -0.021                     | 6529              | 2.04           | 0.29  | 150.2*        | gamma-BHC (Lindane)  |
| 5.065 | -0.027                        | 25331                      | 5.746  | -0.009                     | 47254             | 1.93           | 2.32  | 18.5          | Heptachlor           |
| 5.418 | 0.004                         | 78457                      | ----   | ----                       | ----              | 5.34           | 0.00  | ---           | Aldrin               |
| 6.117 | 0.028                         | 288085                     | 6.826  | 0.012                      | 7482              | 22.60          | 0.39  | 193.2*        | Heptachlor epoxide b |
| ----  | ----                          | ----                       | ----   | ----                       | ----              | 0.00           | 0.00  | ---           | Endosulfan I         |
| ----  | ----                          | ----                       | ----   | ----                       | ----              | 0.00           | 0.00  | ---           | Dieldrin             |
| 6.430 | -0.021                        | 160872                     | 7.320  | -0.022                     | 82254             | 13.78          | 4.80  | 96.7*         | 4,4'-DDE             |
| 7.050 | 0.009                         | 535107                     | 7.886  | 0.010                      | 484072            | 56.97          | 37.16 | 42.1*         | Endrin               |
| 7.290 | 0.012                         | 26637                      | 8.079  | -0.009                     | 182335            | 3.15           | 13.65 | 125.0*        | Endosulfan II        |
| ----  | ----                          | ----                       | 7.927  | -0.022                     | 84966             | 0.00           | 6.70  | ---           | 4,4'-DDD             |
| 8.167 | 0.026                         | 16491                      | 8.702  | 0.016                      | 179794            | 2.05           | 15.33 | 152.7*        | Endosulfan sulfate   |
| ----  | ----                          | ----                       | 8.255  | -0.012                     | 675194            | 0.00           | 55.20 | ---           | 4,4'-DDT             |
| 7.856 | -0.021                        | 21990                      | 8.926  | 0.017                      | 23537             | 5.80           | 4.35  | 28.7          | Methoxychlor         |
| ----  | ----                          | ----                       | 9.199  | -0.011                     | 580130            | 0.00           | 45.80 | ---           | Endrin ketone        |
| 7.715 | 0.008                         | 212117                     | 8.394  | -0.025                     | 188010            | 31.45          | 19.96 | 44.7*         | Endrin aldehyde      |
| ----  | ----                          | ----                       | 7.040  | 0.014                      | 233976            | 0.00           | 12.22 | ---           | trans-Chlordane      |
| 6.381 | 0.005                         | 93722                      | 7.162  | -0.023                     | 18947             | 7.22           | 1.01  | 150.8*        | cis-Chlordane        |
| 2.278 | -0.026                        | 12119                      | 2.503  | 0.021                      | 5846              | 0.68           | 0.23  | 98.0*         | Hexachlorobutadiene  |
| ----  | ----                          | ----                       | 4.671  | -0.022                     | 55183             | 0.00           | 2.29  | ---           | Hexachlorobenzene    |
| 3.790 | -0.010                        | 342879                     | 4.181  | -0.016                     | 545029            | 28.54          | 29.33 | 2.7           | Tetrachloro-m-xylene |
| 9.306 | -0.012                        | 301074                     | 10.403 | -0.026                     | 386773            | 41.47          | 38.19 | 8.2           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 672426         | 883446      | 31.4 |
| Hexabromobiphenyl  | 609723         | 716467      | 17.5 |

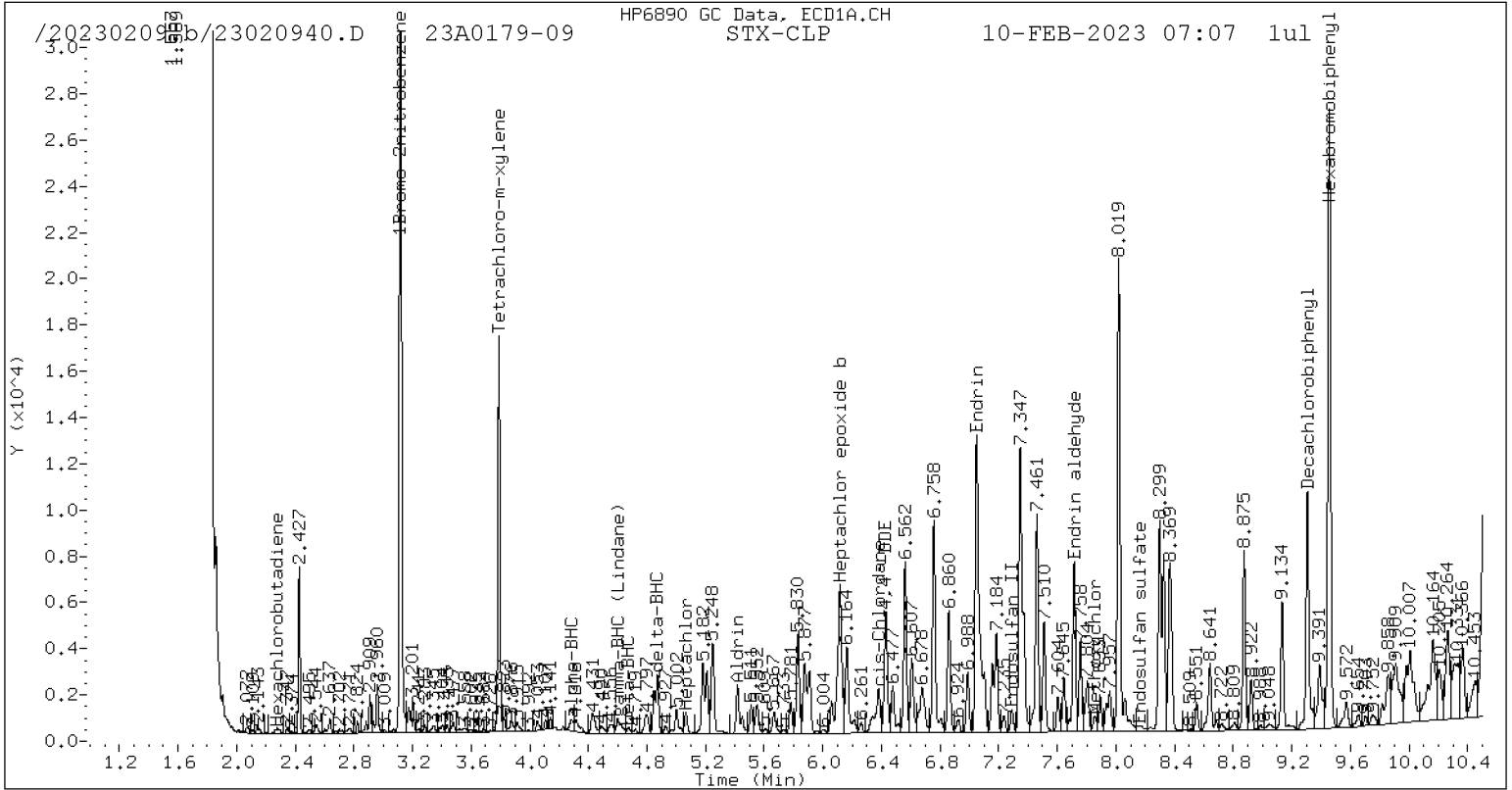
| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1006482        | 1320252     | 31.2 |
| Hexabromobiphenyl  | 769764         | 916282      | 19.0 |

\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

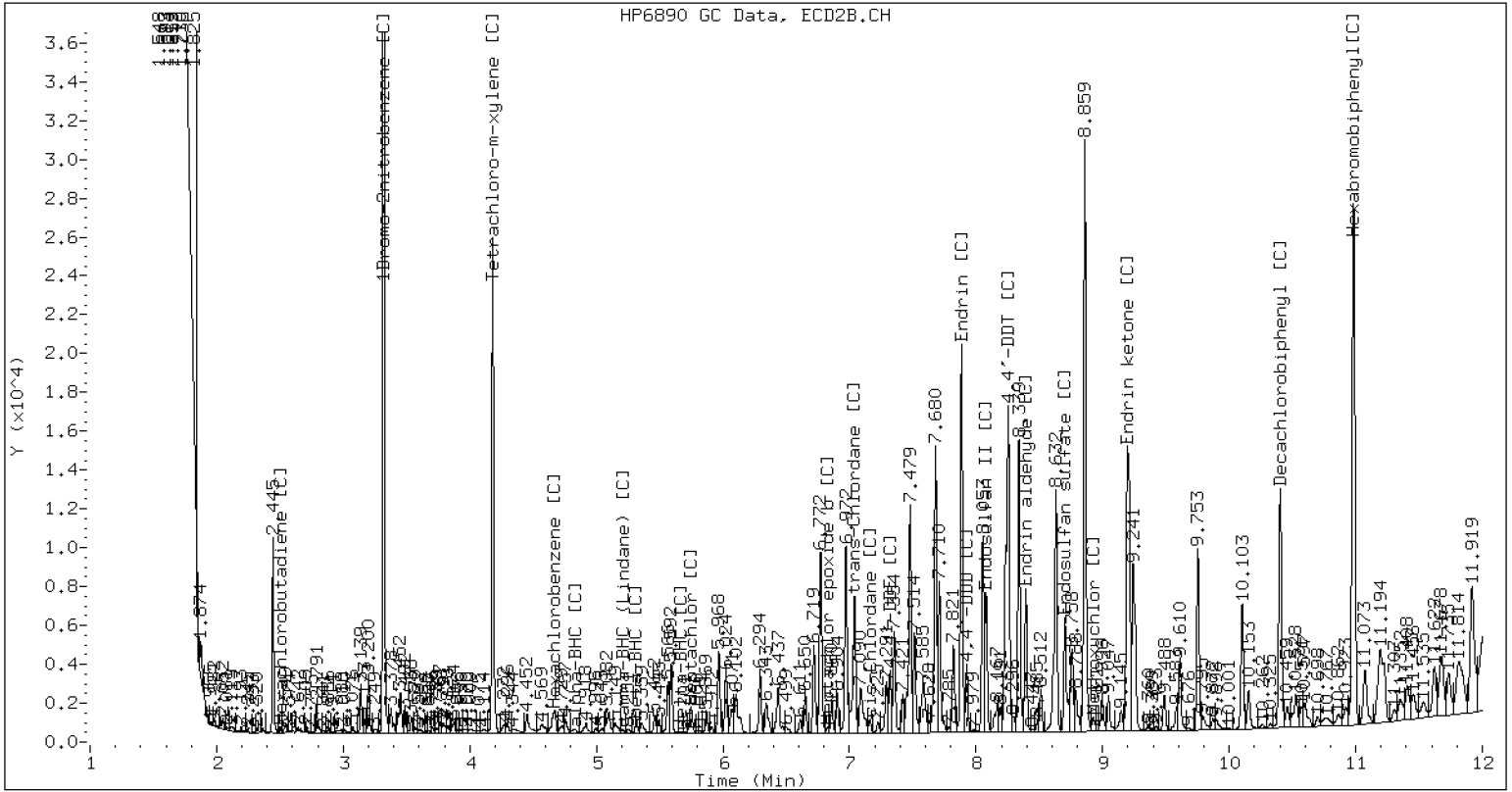
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230209.b/B20230209.b/23020940.D 23A0179-09 CLP2



CLP-2 Manual Integration: NO



**Dual Column**

**LDW23-SS1112**

**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8081B**

|  |  |
|--|--|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0179</u>                        |
| Client: <u>Anchor QEA, LLC</u>               |  |
| Project: <u>AOC5 MR Phase 1</u>              |  |
| Matrix: <u>Solid</u>                         | Laboratory ID: <u>23A0179-10 A</u>         |
|  | File ID: <u>23020941.D</u>                 |
| Sampled: <u>01/10/23 11:28</u>               | Prepared: <u>01/26/23 12:35</u>            |
|  | Analyzed: <u>02/10/23 07:25</u>            |
| % Solids: <u>49.27</u>                       | Preparation: <u>EPA 3546 (Microwave)</u>   |
|  | Initial/Final: <u>26.18 g Wet / 2.5 mL</u> |
| Batch: <u>BLA0556</u>                        | Sequence: <u>SLB0156</u>                   |
|  | Calibration: <u>FL00041</u>                |
| Instrument: <u>ECD6</u>                      | Column 1: <u>STX-CLP</u>                   |
|  | Column 2: <u>STX-CLPII</u>                 |

| CAS NO.  | COMPOUND          | Col # | DILUTION | CONC. (ug/kg dry) | MDL  | MRL  | Q |
|----------|-------------------|-------|----------|-------------------|------|------|---|
| 118-74-1 | Hexachlorobenzene | 1     | 1        | 0.48              | 0.14 | 0.48 | U |

| SURROGATES                   | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i>    | 1     | 7.7526            | 9.45             | 122   | 30 - 160  |   |
| <i>Tetrachlorometaxylene</i> | 1     | 7.7526            | 5.00             | 64.5  | 30 - 160  |   |

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020941.D  
Data file 2: /20230209.b/B20230209.b/23020941.D  
Method: \20230209.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: AA/JR

ARI ID: 23A0179-10  
Client ID:  
Injection Date: 10-FEB-2023 07:25  
Report Date: 02/11/2023 07:19  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col |        |          | CLP2 Col |        |          | STX-CLP | CLP2   | RPD    | Compound/Flag        |
|-------------|--------|----------|----------|--------|----------|---------|--------|--------|----------------------|
| RT          | Shift  | Response | RT       | Shift  | Response | on col  | on col |        |                      |
| 4.314       | 0.003  | 138437   | 4.833    | 0.000  | 33314    | 7.56    | 1.21   | 144.9* | alpha-BHC            |
| 4.720       | 0.027  | 37479    | 5.316    | 0.007  | 47400    | 5.32    | 4.52   | 16.2   | beta-BHC             |
| 4.870       | -0.005 | 178617   | 5.689    | 0.028  | 55105    | 11.93   | 2.43   | 132.4* | delta-BHC            |
| 4.601       | -0.011 | 133621   | 5.209    | -0.020 | 22570    | 8.42    | 0.96   | 158.9* | gamma-BHC (Lindane)  |
| 5.066       | -0.027 | 36912    | 5.747    | -0.008 | 102329   | 2.61    | 4.83   | 59.5*  | Heptachlor           |
| 5.418       | 0.004  | 89813    | ----     |        |          | 5.67    | 0.00   | ---    | Aldrin               |
| 6.117       | 0.029  | 333061   | ----     |        |          | 24.26   | 0.00   | ---    | Heptachlor epoxide b |
| ----        |        |          | ----     |        |          | 0.00    | 0.00   | ---    | Endosulfan I         |
| 6.807       | 0.016  | 21974    | ----     |        |          | 1.62    | 0.00   | ---    | Dieldrin             |
| 6.431       | -0.020 | 186201   | 7.320    | -0.022 | 522765   | 14.82   | 29.25  | 65.5*  | 4,4'-DDE             |
| 7.051       | 0.010  | 339260   | 7.886    | 0.011  | 275855   | 34.99   | 16.38  | 72.5*  | Endrin               |
| 7.292       | 0.014  | 36135    | 8.078    | -0.010 | 662587   | 4.14    | 38.39  | 161.1* | Endosulfan II        |
| ----        |        |          | 7.928    | -0.021 | 251472   | 0.00    | 15.35  | ---    | 4,4'-DDD             |
| ----        |        |          | 8.697    | 0.010  | 326429   | 0.00    | 21.54  | ---    | Endosulfan sulfate   |
| ----        |        |          | 8.254    | -0.012 | 1426859  | 0.00    | 90.25  | ---    | 4,4'-DDT             |
| 7.851       | -0.026 | 215319   | ----     |        |          | 55.05   | 0.00   | ---    | Methoxychlor         |
| ----        |        |          | 9.204    | -0.006 | 775633   | 0.00    | 47.38  | ---    | Endrin ketone        |
| 7.717       | 0.010  | 88251    | ----     |        |          | 12.68   | 0.00   | ---    | Endrin aldehyde      |
| 6.213       | -0.016 | 54932    | 7.037    | 0.012  | 339665   | 3.94    | 17.02  | 124.8* | trans-Chlordane      |
| 6.380       | 0.004  | 151445   | 7.163    | -0.022 | 62364    | 10.83   | 3.19   | 108.9* | cis-Chlordane        |
| 2.278       | -0.026 | 13031    | 2.505    | 0.023  | 5269     | 0.68    | 0.20   | 108.6* | Hexachlorobutadiene  |
| ----        |        |          | ----     |        |          | 0.00    | 0.00   | ---    | Hexachlorobenzene    |
| 3.790       | -0.010 | 333979   | 4.181    | -0.015 | 575591   | 25.82   | 29.72  | 14.0   | Tetrachloro-m-xylene |
| 9.307       | -0.012 | 365468   | 10.402   | -0.027 | 2279308  | 48.78   | 174.13 | 112.5* | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits



INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 672426         | 951252      | 41.5 |
| Hexabromobiphenyl  | 609723         | 739487      | 21.3 |

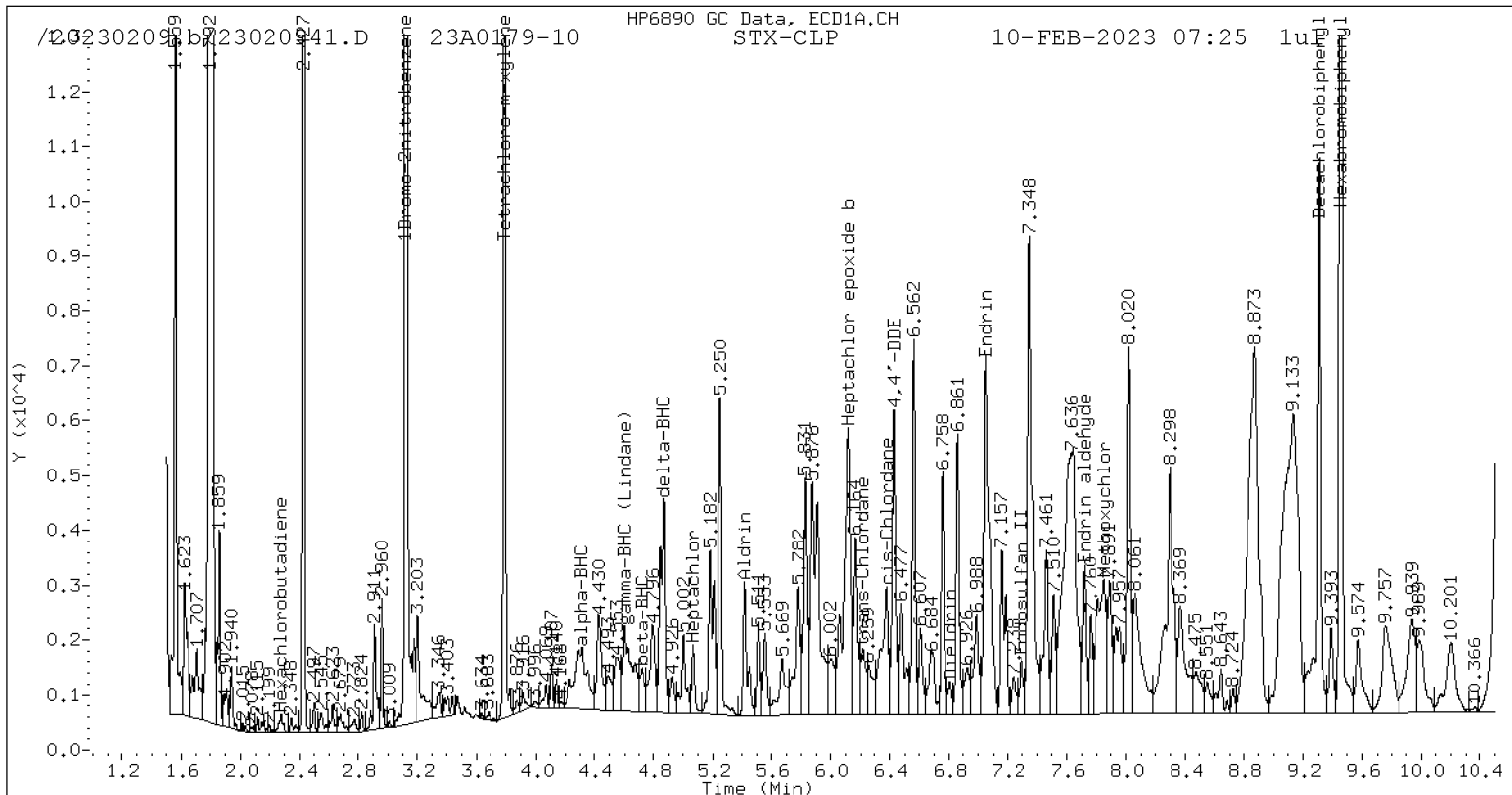
| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1006482        | 1375982     | 36.7 |
| Hexabromobiphenyl  | 769764         | 1184363     | 53.9 |

\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

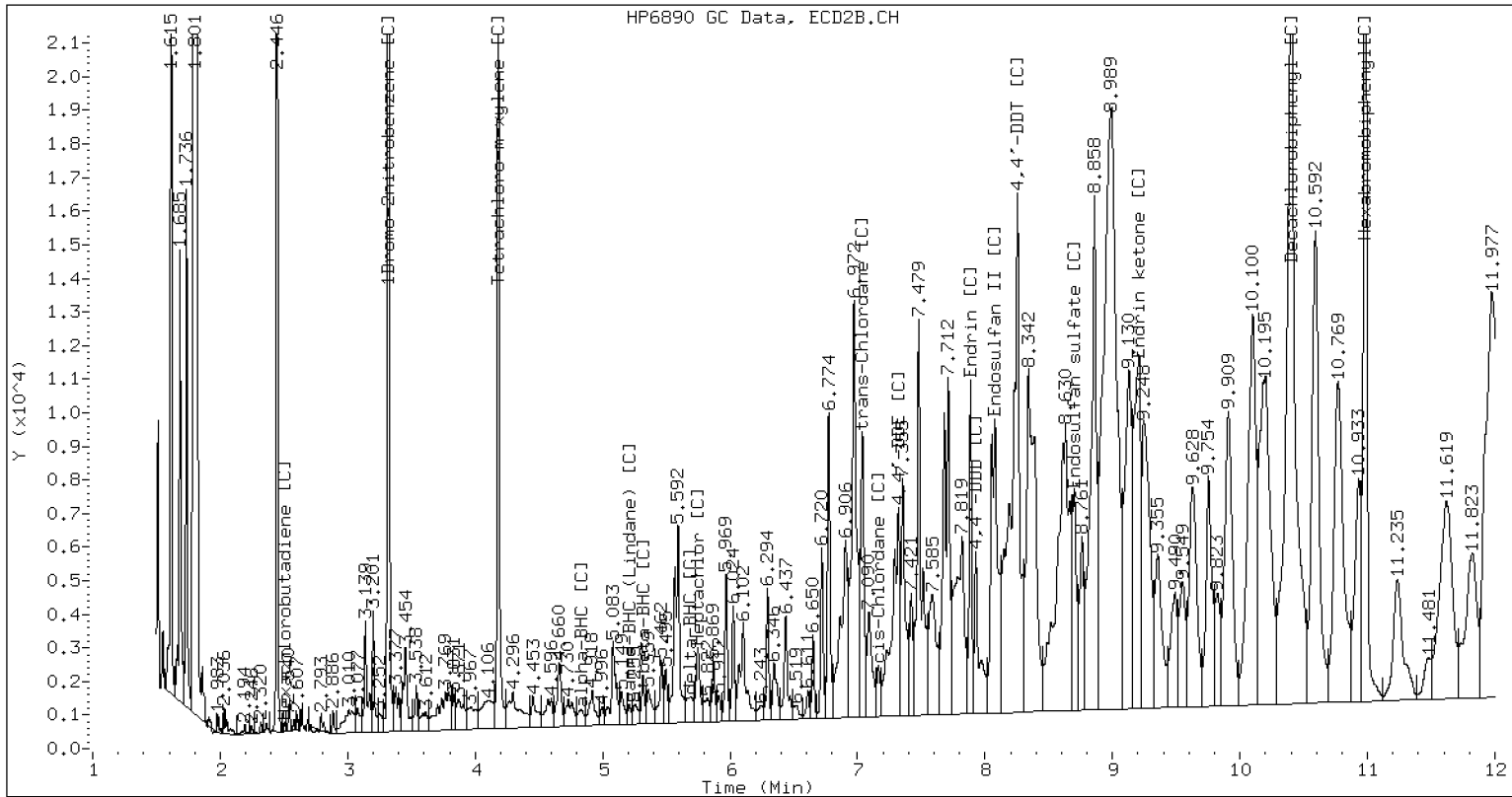
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230209.b/B20230209.b/23020941.D 23A0179-10 CLP2





**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8081B**

|  |  |  |
|--|--|--|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0179</u>                      |  |
| Client: <u>Anchor QEA, LLC</u>               |  |  |
| Project: <u>AOC5 MR Phase 1</u>              |  |  |
| Matrix: <u>Solid</u>                         | Laboratory ID: <u>23A0179-11 A</u>       | File ID: <u>23020942.D</u>                 |
| Sampled: <u>01/10/23 11:56</u>               | Prepared: <u>01/26/23 12:35</u>          | Analyzed: <u>02/10/23 07:43</u>            |
| % Solids: <u>49.64</u>                       | Preparation: <u>EPA 3546 (Microwave)</u> | Initial/Final: <u>25.22 g Wet / 2.5 mL</u> |
| Batch: <u>BLA0556</u>                        | Sequence: <u>SLB0156</u>                 | Calibration: <u>FL00041</u>                |
| Instrument: <u>ECD6</u>                      | Column 1: <u>STX-CLP</u>                 | Column 2: <u>STX-CLPII</u>                 |

| CAS NO.  | COMPOUND          | Col # | DILUTION | CONC. (ug/kg dry) | MDL  | MRL  | Q |
|----------|-------------------|-------|----------|-------------------|------|------|---|
| 118-74-1 | Hexachlorobenzene | 1     | 1        | 0.50              | 0.14 | 0.50 | U |

| SURROGATES                   | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i>    | 1     | 7.9877            | 7.99             | 100   | 30 - 160  |   |
| <i>Decachlorobiphenyl</i>    | 2     | 7.9877            | 7.89             | 98.8  | 30 - 160  |   |
| <i>Tetrachlorometaxylene</i> | 1     | 7.9877            | 5.12             | 64.1  | 30 - 160  |   |
| <i>Tetrachlorometaxylene</i> | 2     | 7.9877            | 4.95             | 62.0  | 30 - 160  |   |

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020942.D  
Data file 2: /20230209.b/B20230209.b/23020942.D  
Method: \20230209.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: AA/JR

ARI ID: 23A0179-11  
Client ID:  
Injection Date: 10-FEB-2023 07:43  
Report Date: 02/11/2023 07:19  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Response | RT     | CLP2 Col<br>Shift Response | Response | STX-CLP<br>on col | CLP2<br>on col | RPD    | Compound/Flag        |
|-------|-------------------------------|----------------------|--------|----------------------------|----------|-------------------|----------------|--------|----------------------|
| 4.314 | 0.003                         | 35985                | 4.834  | 0.001                      | 8759     | 2.11              | 0.33           | 146.3* | alpha-BHC            |
| 4.674 | -0.019                        | 7630                 | 5.315  | 0.006                      | 32141    | 1.16              | 3.16           | 92.5*  | beta-BHC             |
| 4.870 | -0.006                        | 159244               | 5.687  | 0.026                      | 14283    | 11.43             | 0.65           | 178.5* | delta-BHC            |
| 4.600 | -0.012                        | 37414                | 5.207  | -0.022                     | 11537    | 2.53              | 0.51           | 133.1* | gamma-BHC (Lindane)  |
| 5.065 | -0.028                        | 33212                | 5.746  | -0.009                     | 74035    | 2.52              | 3.60           | 35.2   | Heptachlor           |
| 5.418 | 0.004                         | 131292               | 6.138  | -0.020                     | 51122    | 8.91              | 2.18           | 121.4* | Aldrin               |
| 6.060 | -0.028                        | 65739                | 6.829  | 0.015                      | 9619     | 5.14              | 0.50           | 164.8* | Heptachlor epoxide b |
| ----  |                               |                      | ----   |                            |          | 0.00              | 0.00           | ---    | Endosulfan I         |
| 6.805 | 0.014                         | 34906                | ----   |                            |          | 2.77              | 0.00           | ---    | Dieldrin             |
| 6.430 | -0.021                        | 285887               | 7.320  | -0.022                     | 114777   | 24.43             | 6.62           | 114.7* | 4,4'-DDE             |
| 7.051 | 0.010                         | 493701               | 7.886  | 0.010                      | 479185   | 50.75             | 32.26          | 44.5*  | Endrin               |
| 7.291 | 0.013                         | 47220                | 8.076  | -0.012                     | 275507   | 5.39              | 18.10          | 108.2* | Endosulfan II        |
| ----  |                               |                      | 7.926  | -0.022                     | 119667   | 0.00              | 8.28           | ---    | 4,4'-DDD             |
| ----  |                               |                      | 8.701  | 0.015                      | 103543   | 0.00              | 7.75           | ---    | Endosulfan sulfate   |
| ----  |                               |                      | 8.255  | -0.011                     | 974988   | 0.00              | 69.92          | ---    | 4,4'-DDT             |
| 7.893 | 0.016                         | 89045                | 8.929  | 0.021                      | 73840    | 22.69             | 11.97          | 61.9*  | Methoxychlor         |
| ----  |                               |                      | 9.209  | -0.001                     | 320339   | 0.00              | 22.19          | ---    | Endrin ketone        |
| 7.716 | 0.009                         | 91799                | 8.392  | -0.026                     | 126952   | 13.14             | 11.82          | 10.6   | Endrin aldehyde      |
| 6.259 | 0.029                         | 14911                | 7.040  | 0.015                      | 295408   | 1.15              | 15.26          | 172.0* | trans-Chlordane      |
| 6.381 | 0.005                         | 168314               | 7.162  | -0.022                     | 32601    | 12.93             | 1.72           | 153.0* | cis-Chlordane        |
| 2.281 | -0.023                        | 10286                | 2.503  | 0.021                      | 3722     | 0.58              | 0.15           | 118.8* | Hexachlorobutadiene  |
| ----  |                               |                      | ----   |                            |          | 0.00              | 0.00           | ---    | Hexachlorobenzene    |
| 3.790 | -0.011                        | 308940               | 4.181  | -0.015                     | 465654   | 25.65             | 24.79          | 3.4    | Tetrachloro-m-xylene |
| 9.307 | -0.012                        | 300742               | 10.403 | -0.026                     | 456392   | 40.00             | 39.53          | 1.2    | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 672426         | 885720      | 31.7 |
| Hexabromobiphenyl  | 609723         | 741976      | 21.7 |

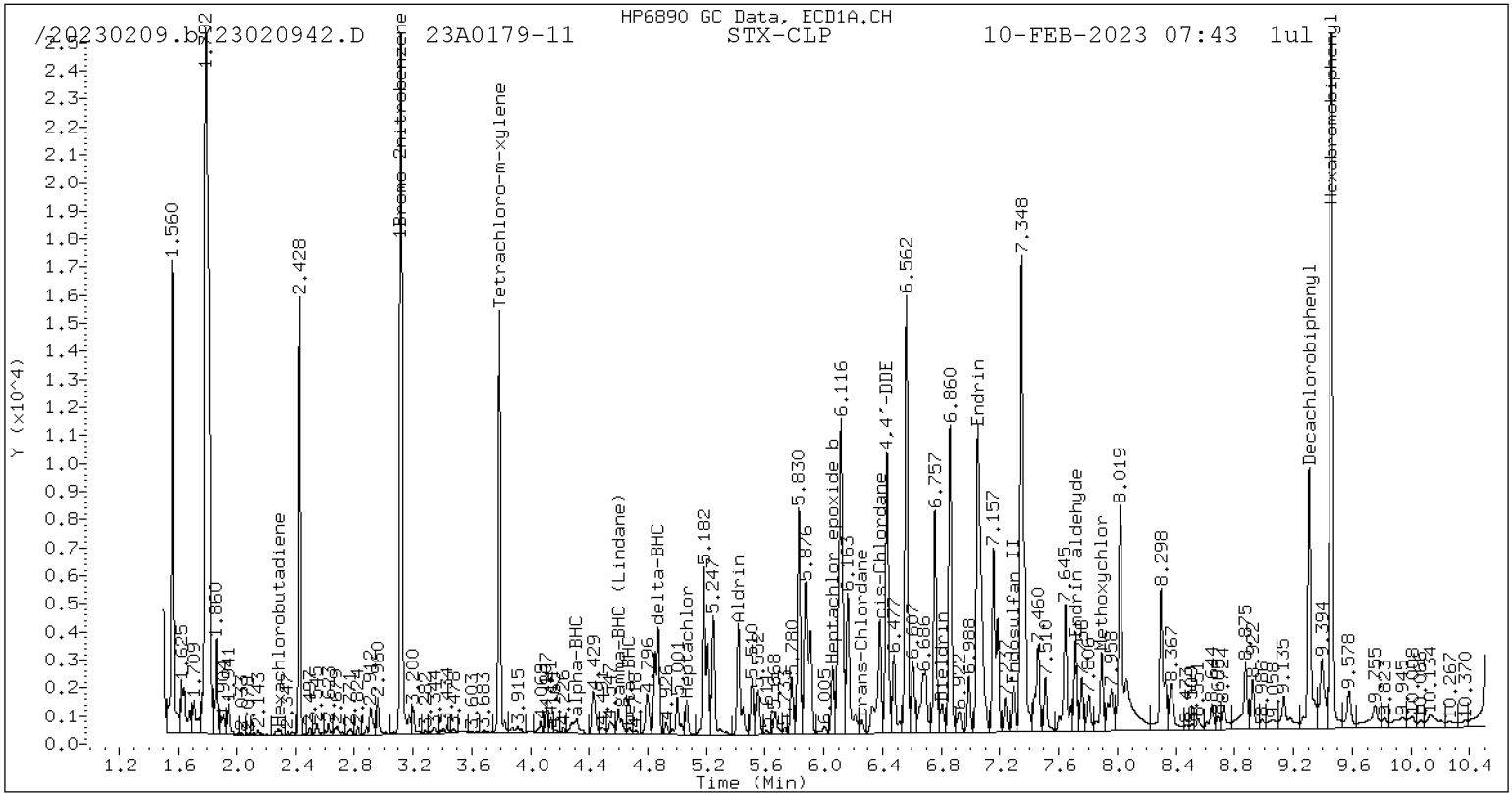
| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1006482        | 1334184     | 32.6 |
| Hexabromobiphenyl  | 769764         | 1044567     | 35.7 |

\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

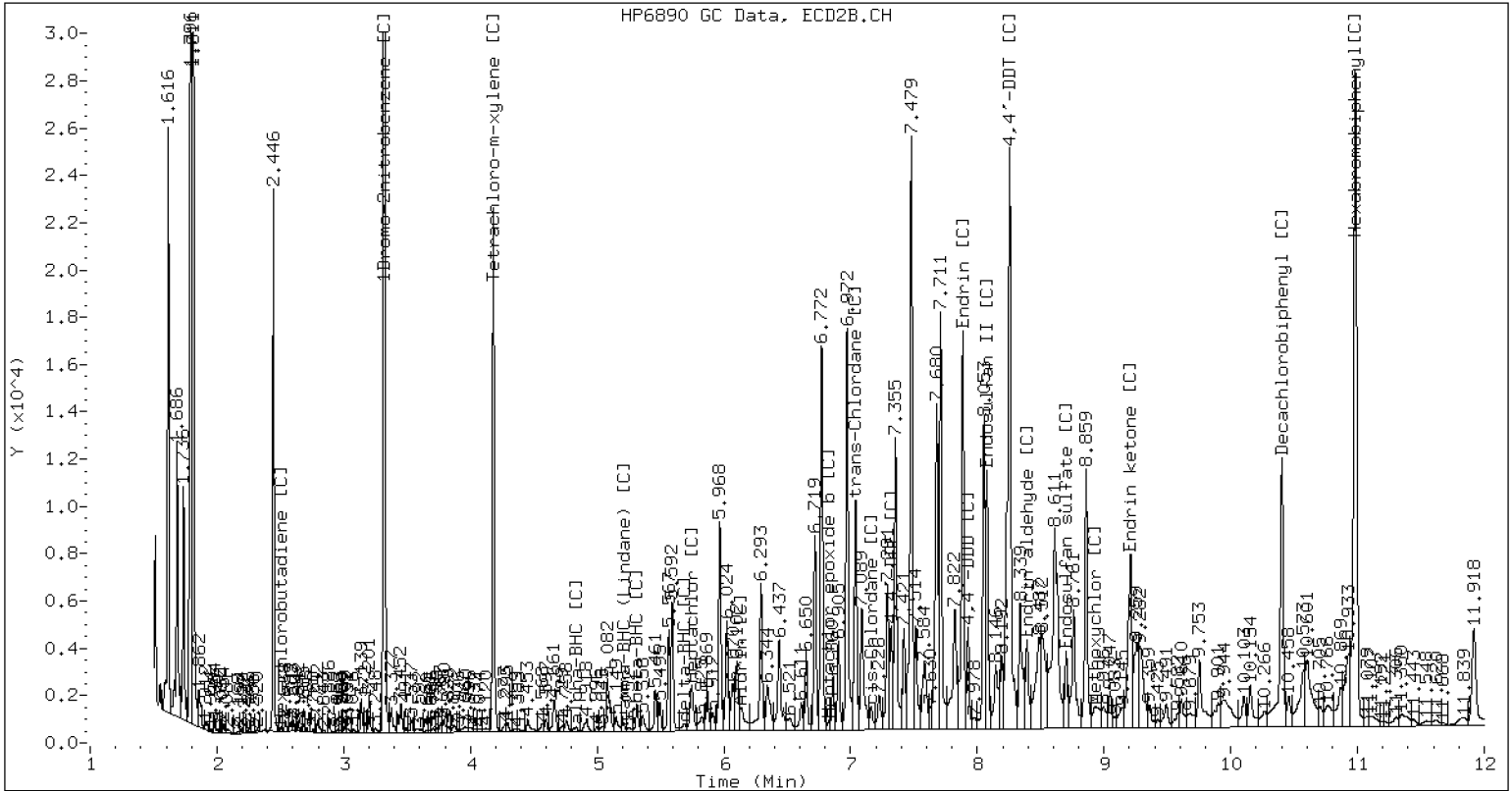
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230209.b/B20230209.b/23020942.D 23A0179-11 CLP2



CLP-2 Manual Integration: NO



Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020943.D  
Data file 2: /20230209.b/B20230209.b/23020943.D  
Method: \20230209.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: AA/JR

ARI ID: 23A0179-12  
Client ID:  
Injection Date: 10-FEB-2023 08:01  
Report Date: 02/11/2023 07:20  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Response | RT     | CLP2 Col<br>Shift Response | CLP2 Col<br>Response | STX-CLP<br>on col | CLP2<br>on col | RPD    | Compound/Flag        |
|-------|-------------------------------|----------------------|--------|----------------------------|----------------------|-------------------|----------------|--------|----------------------|
| 4.313 | 0.003                         | 41433                | 4.835  | 0.002                      | 10861                | 2.42              | 0.40           | 143.0* | alpha-BHC            |
| 4.673 | -0.019                        | 9813                 | 5.316  | 0.007                      | 24945                | 1.49              | 2.43           | 48.0*  | beta-BHC             |
| 4.870 | -0.005                        | 140405               | 5.688  | 0.027                      | 9636                 | 10.02             | 0.43           | 183.5* | delta-BHC            |
| 4.600 | -0.011                        | 35596                | 5.207  | -0.022                     | 10132                | 2.39              | 0.44           | 137.7* | gamma-BHC (Lindane)  |
| 5.066 | -0.027                        | 33232                | 5.746  | -0.008                     | 56958                | 2.51              | 2.74           | 8.6    | Heptachlor           |
| 5.418 | 0.004                         | 87814                | 6.138  | -0.020                     | 24109                | 5.92              | 1.02           | 141.5* | Aldrin               |
| 6.117 | 0.028                         | 262352               | 6.829  | 0.015                      | 7208                 | 20.41             | 0.37           | 192.9* | Heptachlor epoxide b |
| ----  |                               |                      | ----   |                            |                      | 0.00              | 0.00           | ---    | Endosulfan I         |
| 6.805 | 0.015                         | 19529                | ----   |                            |                      | 1.54              | 0.00           | ---    | Dieldrin             |
| 6.431 | -0.020                        | 158927               | 7.320  | -0.022                     | 94701                | 13.51             | 5.40           | 85.7*  | 4,4'-DDE             |
| 7.051 | 0.010                         | 329330               | 7.886  | 0.010                      | 254334               | 35.55             | 19.85          | 56.7*  | Endrin               |
| 7.291 | 0.013                         | 24650                | 8.077  | -0.011                     | 142325               | 2.96              | 10.83          | 114.3* | Endosulfan II        |
| ----  |                               |                      | 7.927  | -0.022                     | 99197                | 0.00              | 7.96           | ---    | 4,4'-DDD             |
| ----  |                               |                      | 8.702  | 0.015                      | 71121                | 0.00              | 6.17           | ---    | Endosulfan sulfate   |
| ----  |                               |                      | 8.255  | -0.012                     | 502069               | 0.00              | 41.73          | ---    | 4,4'-DDT             |
| 7.854 | -0.023                        | 18402                | 8.929  | 0.020                      | 24101                | 4.92              | 4.53           | 8.4    | Methoxychlor         |
| ----  |                               |                      | 9.208  | -0.001                     | 251463               | 0.00              | 20.18          | ---    | Endrin ketone        |
| 7.716 | 0.009                         | 79405                | 8.393  | -0.026                     | 93656                | 11.94             | 10.11          | 16.6   | Endrin aldehyde      |
| 6.213 | -0.017                        | 37009                | 7.038  | 0.013                      | 200929               | 2.84              | 10.26          | 113.4* | trans-Chlordane      |
| 6.380 | 0.004                         | 101356               | 7.162  | -0.023                     | 22169                | 7.74              | 1.16           | 148.0* | cis-Chlordane        |
| 2.280 | -0.024                        | 11021                | 2.504  | 0.022                      | 4895                 | 0.61              | 0.19           | 105.2* | Hexachlorobutadiene  |
| ----  |                               |                      | ----   |                            |                      | 0.00              | 0.00           | ---    | Hexachlorobenzene    |
| 3.790 | -0.010                        | 329401               | 4.181  | -0.015                     | 510139               | 27.20             | 26.85          | 1.3    | Tetrachloro-m-xylene |
| 9.307 | -0.012                        | 286364               | 10.404 | -0.025                     | 378940               | 39.99             | 38.04          | 5.0    | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits



INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 672426         | 890543      | 32.4 |
| Hexabromobiphenyl  | 609723         | 706687      | 15.9 |

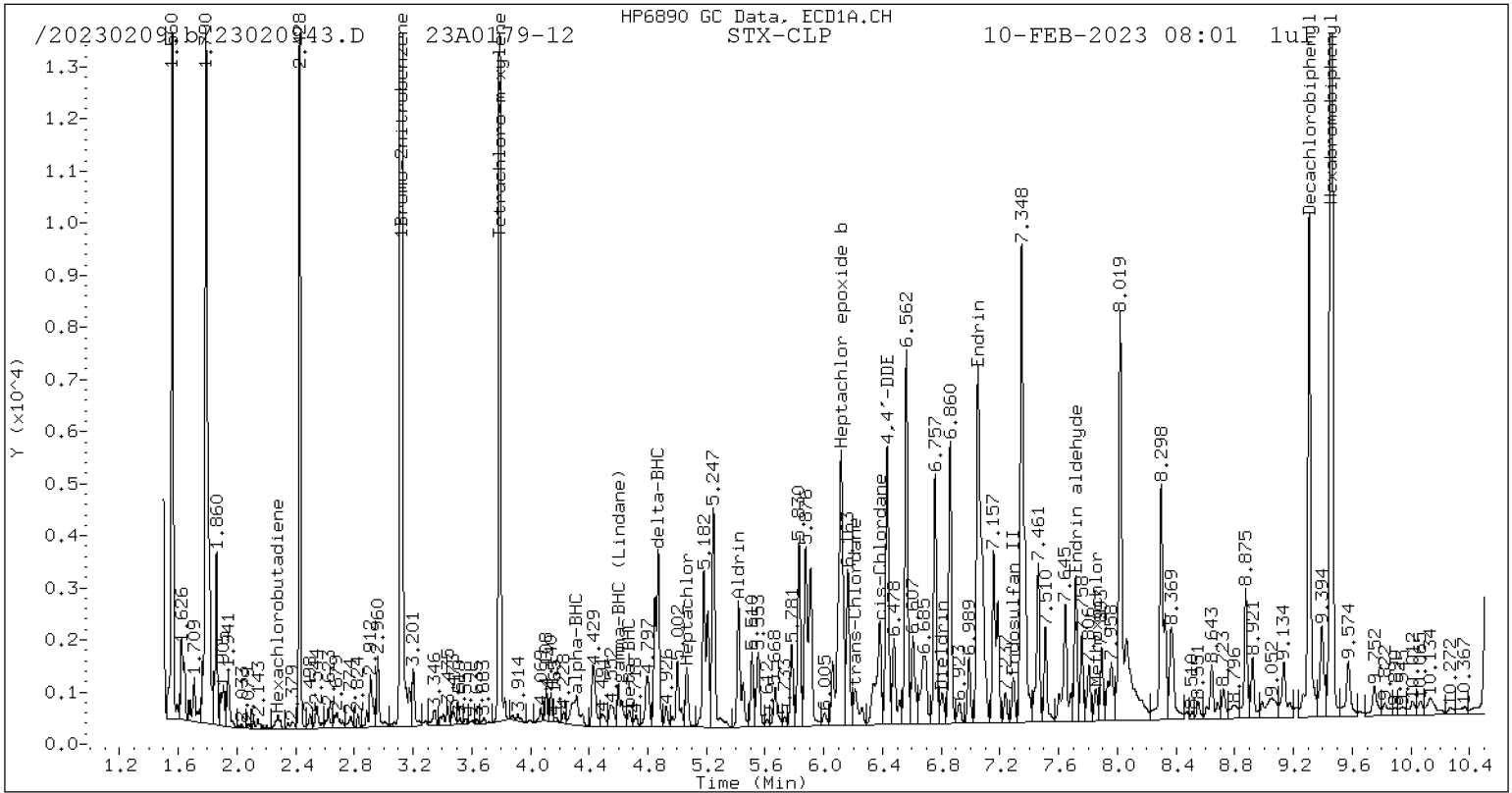
| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1006482        | 1349744     | 34.1 |
| Hexabromobiphenyl  | 769764         | 901339      | 17.1 |

\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

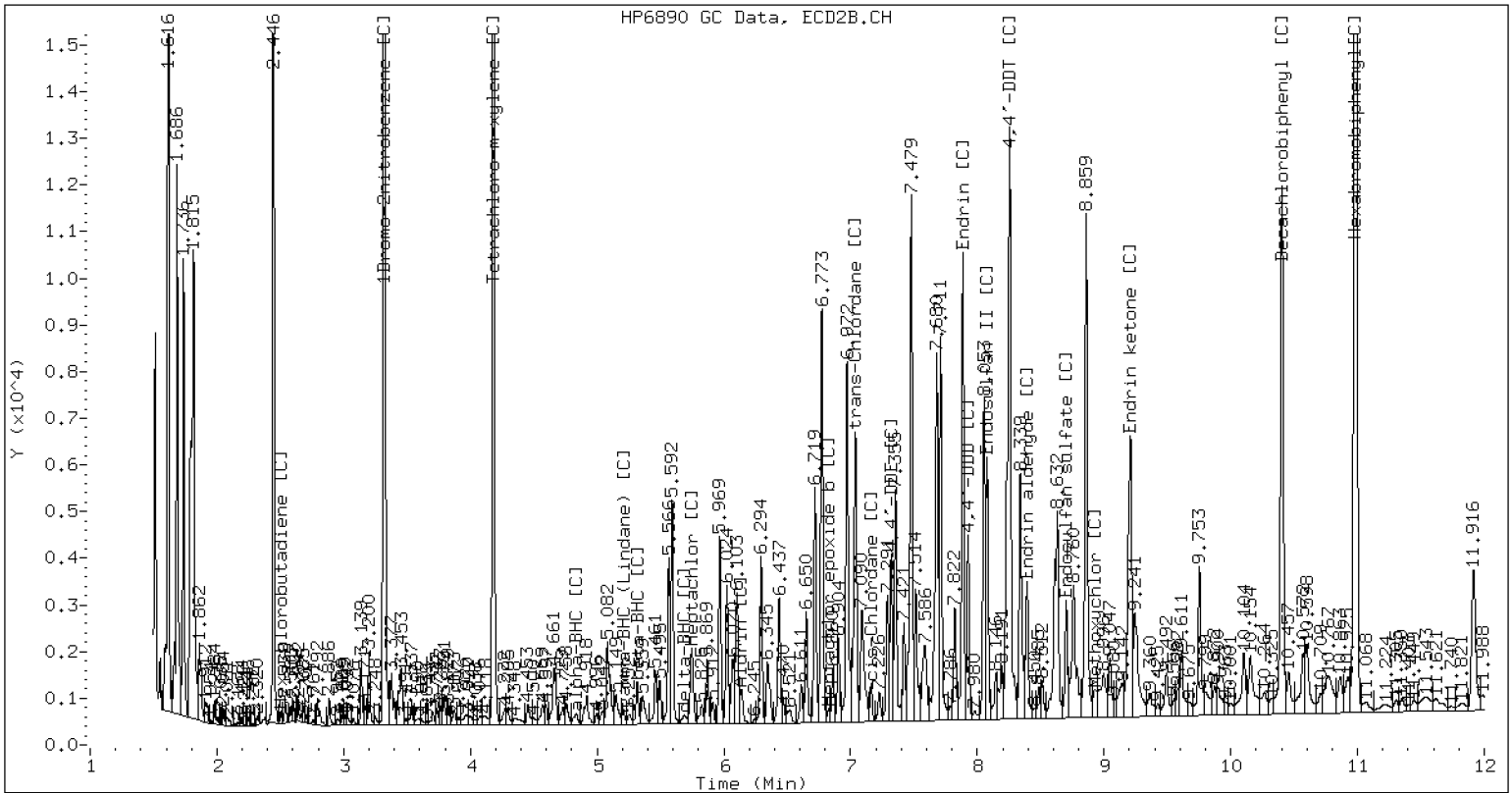
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230209.b/B20230209.b/23020943.D 23A0179-12 CLP2



CLP-2 Manual Integration: NO



**PREPARATION BATCH SUMMARY**  
**EPA 8081B**

Laboratory: Analytical Resources, LLC SDG: 23A0179  
Client: Anchor QEA, LLC Project: AOC5 MR Phase 1  
Batch: BLA0556 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

| SAMPLE NAME  | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED  | OBSERVATIONS |
|--------------|---------------|-------------|----------------|--------------|
| LDW23-SS1277 | 23A0179-01    | 23020930.D  | 01/26/23 12:35 |              |
| LDW23-SS1271 | 23A0179-02    | 23020931.D  | 01/26/23 12:35 |              |
| LDW23-SS1266 | 23A0179-03    | 23020932.D  | 01/26/23 12:35 |              |
| LDW23-SS1248 | 23A0179-04    | 23020933.D  | 01/26/23 12:35 |              |
| LDW23-SS1239 | 23A0179-05    | 23020934.D  | 01/26/23 12:35 |              |
| LDW23-SS1213 | 23A0179-06    | 23020935.D  | 01/26/23 12:35 |              |
| LDW23-SS1200 | 23A0179-07    | 23020938.D  | 01/26/23 12:35 |              |
| LDW23-SS1178 | 23A0179-08    | 23020939.D  | 01/26/23 12:35 |              |
| LDW23-SS1171 | 23A0179-09    | 23020940.D  | 01/26/23 12:35 |              |
| LDW23-SS1112 | 23A0179-10    | 23020941.D  | 01/26/23 12:35 |              |
| LDW23-SS1039 | 23A0179-11    | 23020942.D  | 01/26/23 12:35 |              |
| LDW23-SS1007 | 23A0179-12    | 23020943.D  | 01/26/23 12:35 |              |
| Blank        | BLA0556-BLK1  | 23020925.D  | 01/26/23 12:35 |              |
| LCS          | BLA0556-BS1   | 23020926.D  | 01/26/23 12:35 |              |
| LCS Dup      | BLA0556-BSD1  | 23020927.D  | 01/26/23 12:35 |              |
| LDW23-SS1200 | BLA0556-MS1   | 23020928.D  | 01/26/23 12:35 |              |
| LDW23-SS1200 | BLA0556-MSD1  | 23020929.D  | 01/26/23 12:35 |              |



Batch: BLA0556

Prepared using: EPA 3546 (Microwave)  
8081B Pest (PSDDA) in Solid (Version: HCB Only)

Matrix: Solid Date Prepared: 1/26/23 Balance ID: BL39298002 Set Up By: CRO 1/24/23

WO Comments

23A0179: <C>BPR SRM, MS, DUP <C> <M>BPR PS, MS/MSD <M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD <E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup <H> Store in freezer (except GS)  
23A0180: <C>BPR SRM, MS, DUP <C> <M>BPR PS, MS/MSD <M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD <E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup <H> Store in freezer (except GS)

The following standards may be missing from this batch!

| Designator | Description |
|------------|-------------|
| 62         | Toxaphene   |
| 44         | WND         |
| QLS 10     | QLS Spike   |

Analysis: 8081B Pest (PSDDA)

| Lab Number & Container | % Solids | Initial (g)            |              | (REQ) GPC (1:1) | <input checked="" type="checkbox"/> Yes / No Acid Clean 5mL | (REQ) Sulfur C/U 4.5mL+0.5 mL <del>Ethyl Acetate</del> | (REQ) Silica Gel C/U (2:5) | Final Effective Vol (mL) | Vol (mL) to Lab | Extraction Comments |
|------------------------|----------|------------------------|--------------|-----------------|---|--|----------------------------|--------------------------|-----------------|---------------------|
|                        |          | Target Dry: 12.5 (Wet) | Actual       |                 |   |  |                            |                          |                 |                     |
| 23A0179-01 A           | 59.0     | (21.19)                | <u>21.82</u> | 1 2 3           | 5mL   | 5mL  | (2:5) 2mL                  | 2.5                      | 1.0             |                     |
| 23A0179-02 A           | 66.2     | (18.88)                | <u>19.05</u> | (1:1)           | 5mL   | 5mL  | (2:5) 2mL                  | 2.5                      | 1.0             |                     |
| 23A0179-03 A           | 58.6     | (21.34)                | <u>21.90</u> | (1:1)           | 5mL   | 5mL  | (2:5) 2mL                  | 2.5                      | 1.0             |                     |
| 23A0179-04 A           | 53.7     | (23.26)                | <u>23.90</u> | (1:1)           | 5mL   | 5mL  | (2:5) 2mL                  | 2.5                      | 1.0             |                     |
| 23A0179-05 A           | 67.4     | (18.55)                | <u>18.79</u> | (1:1)           | 5mL   | 5mL  | (2:5) 2mL                  | 2.5                      | 1.0             |                     |
| 23A0179-06 A           | 54.0     | (23.16)                | <u>23.98</u> | (1:1)           | 5mL   | 5mL  | (2:5) 2mL                  | 2.5                      | 1.0             |                     |
| 23A0179-07 A           | 74.6     | (16.76)                | <u>16.76</u> | (1:1)           | 5mL   | 5mL  | (2:5) 2mL                  | 2.5                      | 1.0             |                     |
| 23A0179-08 A           | 61.4     | (20.37)                | <u>21.06</u> | (1:1)           | 5mL   | 5mL  | (2:5) 2mL                  | 2.5                      | 1.0             |                     |
| 23A0179-09 A           | 53.0     | (23.58)                | <u>23.60</u> | (1:1)           | 5mL   | 5mL  | (2:5) 2mL                  | 2.5                      | 1.0             |                     |
| 23A0179-10 A           | 49.3     | (25.37)                | <u>26.18</u> | (1:1)           | 5mL   | 5mL  | (2:5) 2mL                  | 2.5                      | 1.0             |                     |
| 23A0179-11 A           | 49.6     | (25.18)                | <u>25.22</u> | (1:1)           | 5mL   | 5mL  | (2:5) 2mL                  | 2.5                      | 1.0             |                     |
| 23A0179-12 A           | 49.4     | (25.33)                | <u>25.35</u> | (1:1)           | 5mL   | 5mL  | (2:5) 2mL                  | 2.5                      | 1.0             |                     |
| 23A0180-01 A           | 51.4     | (24.34)                | <u>24.62</u> | (1:1)           | 5mL   | 5mL  | (2:5) 2mL                  | 2.5                      | 1.0             |                     |
| 23A0180-02 A           | 53.0     | (23.58)                | <u>23.79</u> | (1:1)           | 5mL   | 5mL  | (2:5) 2mL                  | 2.5                      | 1.0             |                     |
| 23A0180-03 A           | 54.3     | (23.02)                | <u>23.14</u> | (1:1)           | 5mL   | 5mL  | (2:5) 2mL                  | 2.5                      | 1.0             |                     |
| 23A0180-04 A           | 56.1     | (22.28)                | <u>23.27</u> | (1:1)           | 5mL   | 5mL  | (2:5) 2mL                  | 2.5                      | 1.0             |                     |

Batch QC

| Lab Number   | % Solids | Initial (g)            |              | (REQ) GPC (1:1) | <input checked="" type="checkbox"/> Yes / No Acid Clean 5mL | (REQ) Sulfur C/U 4.5mL+0.5 mL <del>Ethyl Acetate</del> | (REQ) Silica Gel C/U (2:5) | Final Effective Vol (mL) | Vol (mL) to Lab | Extraction Comments |
|--------------|----------|------------------------|--------------|-----------------|---|--|----------------------------|--------------------------|-----------------|---------------------|
|              |          | Target Dry: 12.5 (Wet) | Actual       |                 |   |  |                            |                          |                 |                     |
| BLA0556-BLK1 | 100.0    | (12.50)                | <u>12.50</u> | 1 2 3           | 5mL   | 5mL  | (2:5) 2mL                  | 2.5                      | 1.0             |                     |
| BLA0556-BS1  | 100.0    | (12.50)                | <u>12.50</u> | (1:1)           | 5mL   | 5mL  | (2:5) 2mL                  | 2.5                      | 1.0             |                     |
| BLA0556-BSD1 | 100.0    | (12.50)                | <u>12.50</u> | (1:1)           | 5mL   | 5mL  | (2:5) 2mL                  | 2.5                      | 1.0             |                     |
| BLA0556-MS1  | 74.6     | (16.76)                | <u>16.76</u> | (1:1)           | 5mL   | 5mL  | (2:5) 2mL                  | 2.5                      | 1.0             | Use 23A0179-07      |
| BLA0556-MSD1 | 74.6     | (16.76)                | <u>16.76</u> | (1:1)           | 5mL   | 5mL  | (2:5) 2mL                  | 2.5                      | 1.0             | Use 23A0179-07      |



**Analytical Resources, LLC**  
Analytical Chemists and Consultants

**ORGANICS PREPARATION BENCH SHEET**

Batch: BLA0556

Prepared using: EPA 3546 (Microwave)  
8081B Pest (PSDDA) in Solid (Version: HCB Only)

**WO Comments**  
 23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM 1009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E>  
 <H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)  
 23A0180: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM 1009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E>  
 <H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

JR

1/26/23

LS

2/6/23

4/20/23 CT

12:35

Client ID verified By

Date

Preparation Reviewed By

Date

Extraction Date and Time





Batch: BLA0556

Prepared using: EPA 3546 (Microwave)  
8081B Pest (PSDDA) in Solid (Version: HCB Only)

**WO Comments**  
23A0179: <C>BPR SRM, MS, DUP <C> <M>BPR PS, MS/MSD <M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD <E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup <H> Store in freezer (except GS)  
23A0180: <C>BPR SRM, MS, DUP <C> <M>BPR PS, MS/MSD <M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD <E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup <H> Store in freezer (except GS)

| Prep Steps   | Reagents Used  | Surrogates & Spike Standards Used  |        |                       |         |         |         |           |           |      |    |    |        |                   |  |  |  |                 |           |       |    |    |              |                   |  |  |  |
|--|--|--|--------|-----------------------|---------|---------|---------|-----------|-----------|------|----|----|--------|-------------------|--|--|--|-----------------|-----------|-------|----|----|--------------|-------------------|--|--|--|
| <b>Microwave</b><br>① 2 3<br>OR 1/26<br>Analyst/Date   | <b>Station/Reagent</b> <b>Standard ID</b><br><b>Microwave</b><br>Analyst: OR      Date: 1/26/23  | <table border="1"> <thead> <tr> <th>Type</th> <th>Vial ID / Standard ID</th> <th>Vol uL</th> <th>Analyst</th> <th>Witness</th> </tr> </thead> <tbody> <tr> <td>Surrogate</td> <td>N L000773</td> <td>50µL</td> <td>OR</td> <td>GT</td> </tr> <tr> <td>2µg/mL</td> <td>Exp Date: 7/21/23</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Spike (Freezer)</td> <td>3 K011471</td> <td>100µL</td> <td>OR</td> <td>GT</td> </tr> <tr> <td>0.5/1.5µg/mL</td> <td>Exp Date: 6/10/23</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | Type   | Vial ID / Standard ID | Vol uL  | Analyst | Witness | Surrogate | N L000773 | 50µL | OR | GT | 2µg/mL | Exp Date: 7/21/23 |  |  |  | Spike (Freezer) | 3 K011471 | 100µL | OR | GT | 0.5/1.5µg/mL | Exp Date: 6/10/23 |  |  |  |
|  | Type   | Vial ID / Standard ID  | Vol uL | Analyst               | Witness |         |         |           |           |      |    |    |        |                   |  |  |  |                 |           |       |    |    |              |                   |  |  |  |
| Surrogate  | N L000773  | 50µL   | OR     | GT                    |         |         |         |           |           |      |    |    |        |                   |  |  |  |                 |           |       |    |    |              |                   |  |  |  |
| 2µg/mL   | Exp Date: 7/21/23  |  |        |                       |         |         |         |           |           |      |    |    |        |                   |  |  |  |                 |           |       |    |    |              |                   |  |  |  |
| Spike (Freezer)  | 3 K011471  | 100µL  | OR     | GT                    |         |         |         |           |           |      |    |    |        |                   |  |  |  |                 |           |       |    |    |              |                   |  |  |  |
| 0.5/1.5µg/mL   | Exp Date: 6/10/23  |  |        |                       |         |         |         |           |           |      |    |    |        |                   |  |  |  |                 |           |       |    |    |              |                   |  |  |  |
| <b>Pre GPC KD</b><br>100°C<br>(No Exchange)<br>① ② ③ ④ ⑤ ⑥<br>SH 1/31/23<br>Analyst/Date                               | Hexane      K0008310<br>80:20 Hexane/Acetone      L0000257<br>1:1 Hexane/Acetone      L0000646<br>Neutral Glass Wool      L0000350<br>Anhydrous Sodium Sulfate      L0000453 |  |        |                       |         |         |         |           |           |      |    |    |        |                   |  |  |  |                 |           |       |    |    |              |                   |  |  |  |
|  | <b>Pre GPC KD</b><br>Analyst: SH      Date: 1/31/23  |  |        |                       |         |         |         |           |           |      |    |    |        |                   |  |  |  |                 |           |       |    |    |              |                   |  |  |  |
| <b>TurboVap Pre GPC</b><br>1 2 3 ④ 5<br>TWC 2/1/23<br>Analyst/Date   | Hexane      K 411373<br>Anhydrous Sodium Sulfate      SH 1/31/23      N/A<br>Neutral Glass Wool      SH 1/31/23      N/A   |  |        |                       |         |         |         |           |           |      |    |    |        |                   |  |  |  |                 |           |       |    |    |              |                   |  |  |  |
|  | <b>GPC Filter Prep</b><br>Analyst: TWC      Date: 2/1/23   |  |        |                       |         |         |         |           |           |      |    |    |        |                   |  |  |  |                 |           |       |    |    |              |                   |  |  |  |
| <b>Post GPC KD</b><br>80 - 85°C<br>Hexane Exchange<br>(2 X 20 mL)<br>100°C<br>① ② ③ ④ ⑤ ⑥<br>LS 2/5/23<br>Analyst/Date | Methylene Chloride      L0000808   |  |        |                       |         |         |         |           |           |      |    |    |        |                   |  |  |  |                 |           |       |    |    |              |                   |  |  |  |
|  | <b>GPC</b><br>Analyst: TWC      Date: 2/1/23   |  |        |                       |         |         |         |           |           |      |    |    |        |                   |  |  |  |                 |           |       |    |    |              |                   |  |  |  |
| <b>TurboVap Pre-Cleanups</b><br>1 2 3 ④ 5<br>LS 2/5/23<br>Analyst/Date   | Methylene Chloride      L000808<br>Hexane      K011573   |  |        |                       |         |         |         |           |           |      |    |    |        |                   |  |  |  |                 |           |       |    |    |              |                   |  |  |  |
|  | <b>Vialing</b><br>Analyst: LS      Date: 2/6/23  |  |        |                       |         |         |         |           |           |      |    |    |        |                   |  |  |  |                 |           |       |    |    |              |                   |  |  |  |
| <b>TurboVap Post-Cleanups</b><br>1 2 ③ 4 5<br>LS 2/6/23<br>Analyst/Date  | Hexane      K011373<br>Sulfuric Acid      L001033  |  |        |                       |         |         |         |           |           |      |    |    |        |                   |  |  |  |                 |           |       |    |    |              |                   |  |  |  |
|  | <b>Vialing</b><br>Sodium Sulfite      K010363<br>Silica Gel (SPE) Darts      K011573   |  |        |                       |         |         |         |           |           |      |    |    |        |                   |  |  |  |                 |           |       |    |    |              |                   |  |  |  |

**MANUALLY ENTER EXPIRATION DATES!**

(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.

If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator in the Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).



**Analytical Resources, LLC**  
Analytical Chemists and Consultants

**ORGANICS PREPARATION BENCH SHEET**

Batch: BLA0556

Prepared using: EPA 3546 (Microwave)  
8081B Pest (PSDDA) in Solid (Version: HCB Only)

**WO Comments**

23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43,  
7935-36, K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)  
23A0180: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43,  
7935-36, K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Analyst/Date



Batch: BLA0556

Prepared using: EPA 3546 (Microwave)  
8081B Pest (PSDDA) in Solid (Version: HCB Only)

**WO Comments**

23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)  
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<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

**Prep Instructions**

**SPECIAL INSTRUCTIONS:**

1. Weigh into beakers-lightly dry with Sodium Sulfate.
2. Transfer to microwave vessels.
3. Add 1:1 Hex/ACE to the vessels (until solvent is 3" above soil layer after homogenization).
4. Add surr/spike.
5. Microwave on appropriate power setting determined by # of samples.
6. After microwave-re-homogenize while hot then let cool 15 min in cold water. Re-homogenize while cool.
7. Decant 1:1 Hex/ACE into Erlenmeyer flask using a funnel containing neutral glasswool.
8. Rinse with Hexane.
9. Microwave a 2nd time using 8:2 Hex/Ace (until solvent is 3" above soil layer after homogenization).
10. Let cool and decant the solvent then empty the soil into the funnel and rinse with Hexane.
11. KD to 5mL at 100°C. (NO HEXANE EXCHANGE).
12. TurboVap
13. GPC
14. After GPC: KD at 80 - 85°C
15. Exchange to Hexane at 100°C 2 x 20 mL).
16. TurboVap.
17. Cleanups, If Acid cleaning do not add Ethyl Acetate for Sulfur Clean. Do Not Acid Clean if Acid liable compounds are requested.
18. Vial in Hexane.

A. Need Total Solids Y/ N

B. Archive/Freeze  Y/ N





Extraction Parameter: PEST Extraction Batch BLA0556

Total Solids Batch: BLA0474 Work Order(s): 23A0179

| Screens: Soil/Sediment/Solid/Other:  | Analyst/Date       |
|--|--------------------|
| <input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= <u>01-12-</u> | <u>dy 01/21/23</u> |
| <input checked="" type="checkbox"/> Standing Water Decanted (Not shared)= <u>01-12-</u>                  | <u>dy 01/21/23</u> |
| <input type="checkbox"/> Standing Water Homogenized (Shared samples)=                                    | <u>dy</u>          |
| <input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=  |                    |
| <input type="checkbox"/> Rocks (%+size)?   |                    |
| <input type="checkbox"/> Organics (Leaves/sticks/grass)=   |                    |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors=  |                    |
| <input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=                              |                    |
| <input type="checkbox"/> Previously Frozen =   |                    |
| <input type="checkbox"/> Other (Details)=  |                    |
| <b>Aqueous:</b>  |                    |
| <input checked="" type="checkbox"/> No Anomalies   |                    |
| <input type="checkbox"/> Turbid/Color=   |                    |
| <input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)                              |                    |
| <input type="checkbox"/> Emulsions (%)=  |                    |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors=  |                    |
| <input type="checkbox"/> Other (Details)=  |                    |
| <input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=                                     |                    |
| <input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).            |                    |
| <input checked="" type="checkbox"/> Share Samples Y / N  | <u>dy 01/21/23</u> |
| <input checked="" type="checkbox"/> Multiple Jars Y / N  | <u>dy 01/21/23</u> |
| <input type="checkbox"/> Sample Pre-Screens indicate analyte activity=                                   |                    |
| <input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=                             |                    |



Extraction Parameter: PEST Extraction Batch BLA0556

Total Solids Batch: BLA0498 Work Order(s): 23A0180 01-15

| Screens: Soil/Sediment/Solid/Other:   | Analyst/Date      |
|---|-------------------|
| <input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= <u>01-15</u> | <u>CR 1/20/23</u> |
| <input checked="" type="checkbox"/> Standing Water Decanted (Not shared)= <u>01-15</u>                  | <u>CR 1/20/23</u> |
| <input type="checkbox"/> Standing Water Homogenized (Shared samples)=                                   |                   |
| <input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=   |                   |
| <input type="checkbox"/> Rocks (%+size)?  |                   |
| <input type="checkbox"/> Organics (Leaves/sticks/grass)=  |                   |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors=   |                   |
| <input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=                             |                   |
| <input checked="" type="checkbox"/> Previously Frozen = <u>01-15</u>                                    | <u>CR 1/20/23</u> |
| <input type="checkbox"/> Other (Details)=   |                   |
| Aqueous:  |                   |
| <input checked="" type="checkbox"/> No Anomalies  |                   |
| <input type="checkbox"/> Turbid/Color=  |                   |
| <input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)                             |                   |
| <input type="checkbox"/> Emulsions (%)=   |                   |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors=   |                   |
| <input type="checkbox"/> Other (Details)=   |                   |
| <input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=                                    |                   |
| <input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).           |                   |
| <input checked="" type="checkbox"/> Share Samples Y / (N)   | <u>CR 1/20/23</u> |
| <input checked="" type="checkbox"/> Multiple Jars Y / (N)   | <u>CR 1/20/23</u> |
| <input type="checkbox"/> Sample Pre-Screens indicate analyte activity=                                  |                   |
| <input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=                            |                   |



## CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLB0039

Cleanup Type: Silica Gel

Cleanup Method: EPA 3630C Silica Gel Cleanup - uL

Analysis: EPA 8081B

| SAMPLE NAME      | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|------------------|---------------|-------------|---------------|--------------|
| LDW23-SS1266     | 23A0179-03    | 23020932.D  | 02/06/2023    |              |
| LDW23-SS1039     | 23A0179-11    | 23020942.D  | 02/06/2023    |              |
| LDW23-SS1112     | 23A0179-10    | 23020941.D  | 02/06/2023    |              |
| LDW23-SS1171     | 23A0179-09    | 23020940.D  | 02/06/2023    |              |
| LDW23-SS1178     | 23A0179-08    | 23020939.D  | 02/06/2023    |              |
| LDW23-SS1200     | 23A0179-07    | 23020938.D  | 02/06/2023    |              |
| LDW23-SS1213     | 23A0179-06    | 23020935.D  | 02/06/2023    |              |
| LDW23-SS1007     | 23A0179-12    | 23020943.D  | 02/06/2023    |              |
| LDW23-SS1248     | 23A0179-04    | 23020933.D  | 02/06/2023    |              |
| Matrix Spike Dup | BLA0556-MSD1  | 23020929.D  | 02/06/2023    |              |
| LDW23-SS1271     | 23A0179-02    | 23020931.D  | 02/06/2023    |              |
| LDW23-SS1277     | 23A0179-01    | 23020930.D  | 02/06/2023    |              |
| Blank            | BLA0556-BLK1  | 23020925.D  | 02/06/2023    |              |
| LCS              | BLA0556-BS1   | 23020926.D  | 02/06/2023    |              |
| LCS Dup          | BLA0556-BSD1  | 23020927.D  | 02/06/2023    |              |
| Matrix Spike     | BLA0556-MS1   | 23020928.D  | 02/06/2023    |              |
| LDW23-SS1239     | 23A0179-05    | 23020934.D  | 02/06/2023    |              |



**CLEANUP BENCH SHEET**

CLB0039

Matrix: Solid

Cleanup using: Organics - EPA 3630C Silica Gel Cleanup - uL

Printed: 2/6/2023 12:55:53PM

| Lab Number   | Sample Container | Sample Name      | Extract Container | Initial (uL) | Final (uL) | Analysis           | Clean Up Date | Cleaned By | Cleanup Comments |
|--------------|------------------|------------------|-------------------|--------------|------------|--------------------|---------------|------------|------------------|
| 23A0179-01   | A                | LDW23-SS1277     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-02   | A                | LDW23-SS1271     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-03   | A                | LDW23-SS1266     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-04   | A                | LDW23-SS1248     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-05   | A                | LDW23-SS1239     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-06   | A                | LDW23-SS1213     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-07   | A                | LDW23-SS1200     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-08   | A                | LDW23-SS1178     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-09   | A                | LDW23-SS1171     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-10   | A                | LDW23-SS1112     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-11   | A                | LDW23-SS1039     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-12   | A                | LDW23-SS1007     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0180-01   | A                | LDW23-SC1164     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0180-02   | A                | LDW23-SC1164-FD  | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0180-03   | A                | LDW23-SC1158     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0180-04   | A                | LDW23-SC1151     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| BLA0556-BLK1 | -                | Blank            | -                 | 2.5          | 2.5        | -                  | 2/6/2023      | LMJ        |                  |
| BLA0556-BS1  | -                | LCS              | -                 | 2.5          | 2.5        | -                  | 2/6/2023      | LMJ        |                  |
| BLA0556-BSD1 | -                | LCS Dup          | -                 | 2.5          | 2.5        | -                  | 2/6/2023      | LMJ        |                  |
| BLA0556-MS1  | -                | Matrix Spike     | -                 | 2.5          | 2.5        | -                  | 2/6/2023      | LMJ        |                  |
| BLA0556-MSD1 | -                | Matrix Spike Dup | -                 | 2.5          | 2.5        | -                  | 2/6/2023      | LMJ        |                  |



## CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLB0040

Cleanup Type: Sulfur

Cleanup Method: EPA 3660B Sulfur Cleanup - uL

Analysis: EPA 8081B

| SAMPLE NAME      | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|------------------|---------------|-------------|---------------|--------------|
| LDW23-SS1266     | 23A0179-03    | 23020932.D  | 02/06/2023    |              |
| LDW23-SS1039     | 23A0179-11    | 23020942.D  | 02/06/2023    |              |
| LDW23-SS1112     | 23A0179-10    | 23020941.D  | 02/06/2023    |              |
| LDW23-SS1171     | 23A0179-09    | 23020940.D  | 02/06/2023    |              |
| LDW23-SS1178     | 23A0179-08    | 23020939.D  | 02/06/2023    |              |
| LDW23-SS1200     | 23A0179-07    | 23020938.D  | 02/06/2023    |              |
| LDW23-SS1213     | 23A0179-06    | 23020935.D  | 02/06/2023    |              |
| LDW23-SS1007     | 23A0179-12    | 23020943.D  | 02/06/2023    |              |
| LDW23-SS1248     | 23A0179-04    | 23020933.D  | 02/06/2023    |              |
| Matrix Spike Dup | BLA0556-MSD1  | 23020929.D  | 02/06/2023    |              |
| LDW23-SS1271     | 23A0179-02    | 23020931.D  | 02/06/2023    |              |
| LDW23-SS1277     | 23A0179-01    | 23020930.D  | 02/06/2023    |              |
| Blank            | BLA0556-BLK1  | 23020925.D  | 02/06/2023    |              |
| LCS              | BLA0556-BS1   | 23020926.D  | 02/06/2023    |              |
| LCS Dup          | BLA0556-BSD1  | 23020927.D  | 02/06/2023    |              |
| Matrix Spike     | BLA0556-MS1   | 23020928.D  | 02/06/2023    |              |
| LDW23-SS1239     | 23A0179-05    | 23020934.D  | 02/06/2023    |              |





**CLEANUP BENCH SHEET**

CLB0040

Matrix: Solid

Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL

Printed: 2/6/2023 12:56:33PM

| Lab Number   | Sample Container | Sample Name      | Extract Container | Initial (uL) | Final (uL) | Analysis           | Clean Up Date | Cleaned By | Cleanup Comments |
|--------------|------------------|------------------|-------------------|--------------|------------|--------------------|---------------|------------|------------------|
| 23A0179-01   | A                | LDW23-SS1277     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-02   | A                | LDW23-SS1271     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-03   | A                | LDW23-SS1266     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-04   | A                | LDW23-SS1248     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-05   | A                | LDW23-SS1239     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-06   | A                | LDW23-SS1213     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-07   | A                | LDW23-SS1200     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-08   | A                | LDW23-SS1178     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-09   | A                | LDW23-SS1171     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-10   | A                | LDW23-SS1112     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-11   | A                | LDW23-SS1039     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-12   | A                | LDW23-SS1007     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0180-01   | A                | LDW23-SC1164     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0180-02   | A                | LDW23-SC1164-FD  | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0180-03   | A                | LDW23-SC1158     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0180-04   | A                | LDW23-SC1151     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| BLA0556-BLK1 | -                | Blank            | -                 | 2.5          | 2.5        | -                  | 2/6/2023      | LMJ        |                  |
| BLA0556-BS1  | -                | LCS              | -                 | 2.5          | 2.5        | -                  | 2/6/2023      | LMJ        |                  |
| BLA0556-BSD1 | -                | LCS Dup          | -                 | 2.5          | 2.5        | -                  | 2/6/2023      | LMJ        |                  |
| BLA0556-MS1  | -                | Matrix Spike     | -                 | 2.5          | 2.5        | -                  | 2/6/2023      | LMJ        |                  |
| BLA0556-MSD1 | -                | Matrix Spike Dup | -                 | 2.5          | 2.5        | -                  | 2/6/2023      | LMJ        |                  |



## CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLB0041

Cleanup Type: Sulfuric Acid

Cleanup Method: EPA 3665 Sulfuric Acid Cleanup - uL

Analysis: EPA 8081B

| SAMPLE NAME      | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|------------------|---------------|-------------|---------------|--------------|
| LDW23-SS1266     | 23A0179-03    | 23020932.D  | 02/06/2023    |              |
| LDW23-SS1039     | 23A0179-11    | 23020942.D  | 02/06/2023    |              |
| LDW23-SS1112     | 23A0179-10    | 23020941.D  | 02/06/2023    |              |
| LDW23-SS1171     | 23A0179-09    | 23020940.D  | 02/06/2023    |              |
| LDW23-SS1178     | 23A0179-08    | 23020939.D  | 02/06/2023    |              |
| LDW23-SS1200     | 23A0179-07    | 23020938.D  | 02/06/2023    |              |
| LDW23-SS1213     | 23A0179-06    | 23020935.D  | 02/06/2023    |              |
| LDW23-SS1007     | 23A0179-12    | 23020943.D  | 02/06/2023    |              |
| LDW23-SS1248     | 23A0179-04    | 23020933.D  | 02/06/2023    |              |
| Matrix Spike Dup | BLA0556-MSD1  | 23020929.D  | 02/06/2023    |              |
| LDW23-SS1271     | 23A0179-02    | 23020931.D  | 02/06/2023    |              |
| LDW23-SS1277     | 23A0179-01    | 23020930.D  | 02/06/2023    |              |
| Blank            | BLA0556-BLK1  | 23020925.D  | 02/06/2023    |              |
| LCS              | BLA0556-BS1   | 23020926.D  | 02/06/2023    |              |
| LCS Dup          | BLA0556-BSD1  | 23020927.D  | 02/06/2023    |              |
| Matrix Spike     | BLA0556-MS1   | 23020928.D  | 02/06/2023    |              |
| LDW23-SS1239     | 23A0179-05    | 23020934.D  | 02/06/2023    |              |



**CLEANUP BENCH SHEET**

CLB0041

Matrix: Solid      Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL      Printed: 2/6/2023 12:57:12PM

| Lab Number   | Sample Container | Sample Name      | Extract Container | Initial (uL) | Final (uL) | Analysis           | Clean Up Date | Cleaned By | Cleanup Comments |
|--------------|------------------|------------------|-------------------|--------------|------------|--------------------|---------------|------------|------------------|
| 23A0179-01   | A                | LDW23-SS1277     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-02   | A                | LDW23-SS1271     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-03   | A                | LDW23-SS1266     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-04   | A                | LDW23-SS1248     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-05   | A                | LDW23-SS1239     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-06   | A                | LDW23-SS1213     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-07   | A                | LDW23-SS1200     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-08   | A                | LDW23-SS1178     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-09   | A                | LDW23-SS1171     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-10   | A                | LDW23-SS1112     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-11   | A                | LDW23-SS1039     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-12   | A                | LDW23-SS1007     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0180-01   | A                | LDW23-SC1164     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0180-02   | A                | LDW23-SC1164-FD  | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0180-03   | A                | LDW23-SC1158     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0180-04   | A                | LDW23-SC1151     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| BLA0556-BLK1 | -                | Blank            | -                 | 2.5          | 2.5        | -                  | 2/6/2023      | LMJ        |                  |
| BLA0556-BS1  | -                | LCS              | -                 | 2.5          | 2.5        | -                  | 2/6/2023      | LMJ        |                  |
| BLA0556-BSD1 | -                | LCS Dup          | -                 | 2.5          | 2.5        | -                  | 2/6/2023      | LMJ        |                  |
| BLA0556-MS1  | -                | Matrix Spike     | -                 | 2.5          | 2.5        | -                  | 2/6/2023      | LMJ        |                  |
| BLA0556-MSD1 | -                | Matrix Spike Dup | -                 | 2.5          | 2.5        | -                  | 2/6/2023      | LMJ        |                  |





## CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLB0042

Cleanup Type: GPC

Cleanup Method: EPA 3640A GPC Cleanup 1:1

Analysis: EPA 8081B

| SAMPLE NAME      | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|------------------|---------------|-------------|---------------|--------------|
| LDW23-SS1266     | 23A0179-03    | 23020932.D  | 02/06/2023    |              |
| LDW23-SS1039     | 23A0179-11    | 23020942.D  | 02/06/2023    |              |
| LDW23-SS1112     | 23A0179-10    | 23020941.D  | 02/06/2023    |              |
| LDW23-SS1171     | 23A0179-09    | 23020940.D  | 02/06/2023    |              |
| LDW23-SS1178     | 23A0179-08    | 23020939.D  | 02/06/2023    |              |
| LDW23-SS1200     | 23A0179-07    | 23020938.D  | 02/06/2023    |              |
| LDW23-SS1213     | 23A0179-06    | 23020935.D  | 02/06/2023    |              |
| LDW23-SS1007     | 23A0179-12    | 23020943.D  | 02/06/2023    |              |
| LDW23-SS1248     | 23A0179-04    | 23020933.D  | 02/06/2023    |              |
| Matrix Spike Dup | BLA0556-MSD1  | 23020929.D  | 02/06/2023    |              |
| LDW23-SS1271     | 23A0179-02    | 23020931.D  | 02/06/2023    |              |
| LDW23-SS1277     | 23A0179-01    | 23020930.D  | 02/06/2023    |              |
| Blank            | BLA0556-BLK1  | 23020925.D  | 02/06/2023    |              |
| LCS              | BLA0556-BS1   | 23020926.D  | 02/06/2023    |              |
| LCS Dup          | BLA0556-BSD1  | 23020927.D  | 02/06/2023    |              |
| Matrix Spike     | BLA0556-MS1   | 23020928.D  | 02/06/2023    |              |
| LDW23-SS1239     | 23A0179-05    | 23020934.D  | 02/06/2023    |              |



**CLEANUP BENCH SHEET**

CLB0042

Matrix: Solid      Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1      Check Standard: CLA0086-GPC1      Printed: 2/6/2023 12:58:16PM

| Lab Number   | Sample Container | Sample Name      | Extract Container | Initial (uL) | Final (uL) | Analysis           | Clean Up Date | Cleaned By | Cleanup Comments |
|--------------|------------------|------------------|-------------------|--------------|------------|--------------------|---------------|------------|------------------|
| 23A0179-01   | A                | LDW23-SS1277     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-02   | A                | LDW23-SS1271     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-03   | A                | LDW23-SS1266     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-04   | A                | LDW23-SS1248     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-05   | A                | LDW23-SS1239     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-06   | A                | LDW23-SS1213     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-07   | A                | LDW23-SS1200     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-08   | A                | LDW23-SS1178     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-09   | A                | LDW23-SS1171     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-10   | A                | LDW23-SS1112     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-11   | A                | LDW23-SS1039     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0179-12   | A                | LDW23-SS1007     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0180-01   | A                | LDW23-SC1164     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0180-02   | A                | LDW23-SC1164-FD  | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0180-03   | A                | LDW23-SC1158     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| 23A0180-04   | A                | LDW23-SC1151     | A 01              | 2.5          | 2.5        | 8081B Pest (PSDDA) | 2/6/2023      | LMJ        |                  |
| BLA0556-BLK1 | -                | Blank            | -                 | 2.5          | 2.5        | -                  | 2/6/2023      | LMJ        |                  |
| BLA0556-BS1  | -                | LCS              | -                 | 2.5          | 2.5        | -                  | 2/6/2023      | LMJ        |                  |
| BLA0556-BSD1 | -                | LCS Dup          | -                 | 2.5          | 2.5        | -                  | 2/6/2023      | LMJ        |                  |
| BLA0556-MS1  | -                | Matrix Spike     | -                 | 2.5          | 2.5        | -                  | 2/6/2023      | LMJ        |                  |
| BLA0556-MSD1 | -                | Matrix Spike Dup | -                 | 2.5          | 2.5        | -                  | 2/6/2023      | LMJ        |                  |



**Form I**  
**METHOD BLANK DATA SHEET**  
**EPA 8081B**

|       |
|-------|
| Blank |
|-------|

|             |                                  |                |   |
|-------------|----------------------------------|----------------|---|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>                                |
| Client:     | <u>Anchor QEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u>                        |
| Matrix:     | <u>Solid</u>                     | Laboratory ID: | <u>BLA0556-BLK1</u>                           |
| Sampled:    | <u>N/A</u>                       | Prepared:      | <u>01/26/23 12:35</u>                         |
| Solids:     |                                  | Preparation:   | <u>EPA 3546 (Microwave)</u>                   |
| Batch:      | <u>BLA0556</u>                   | Sequence:      | <u>SLB0156</u>                                |
| Instrument: | <u>ECD6</u>                      | Column:        | <u>STX-CLP</u>                                |
|             |                                  | File ID:       | <u>23020925.D</u>                             |
|             |                                  | Analyzed:      | <u>02/10/23 02:39</u>                         |
|             |                                  | Initial/Final: | <u>12.5 g / 2.5 mL</u>                        |
|             |                                  | Calibration:   | <u>FL00041</u>                                |
|             |                                  | Cleanups:      | <u>GPC, Silica Gel, Sulfur, Sulfuric Acid</u> |

| CAS NO.                    | COMPOUND          | DILUTION              | CONC:<br>(ug/kg wet)  | Q     | DL        | RL   |
|----------------------------|-------------------|-----------------------|-----------------------|-------|-----------|------|
| 118-74-1                   | Hexachlorobenzene | 1                     | 0.50                  | U     | 0.15      | 0.50 |
| SURROGATES                 |                   | ADDED:<br>(ug/kg wet) | FOUND:<br>(ug/kg wet) | % REC | QC LIMITS | Q    |
| Decachlorobiphenyl         |                   | 8.0000                | 10.6                  | 132   | 30 - 160  |      |
| Decachlorobiphenyl [2C]    |                   | 8.0000                | 11.2                  | 140   | 30 - 160  |      |
| Tetrachlorometaxylene      |                   | 8.0000                | 8.54                  | 107   | 30 - 160  |      |
| Tetrachlorometaxylene [2C] |                   | 8.0000                | 7.85                  | 98.1  | 30 - 160  |      |

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020925.D  
Data file 2: /20230209.b/B20230209.b/23020925.D  
Method: \20230209.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: AA/JR

ARI ID: BIA0556-BLK1  
Client ID:  
Injection Date: 10-FEB-2023 02:39  
Report Date: 02/11/2023 07:13  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT     | CLP2<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD   | Compound/Flag       |                      |
|-------|-------------------------------|----------------------------|--------|------------------------|-------------------|----------------|-------|---------------------|----------------------|
| ----  |                               |                            | ----   |                        | 0.00              | 0.00           | ---   | alpha-BHC           |                      |
| ----  |                               |                            | ----   |                        | 0.00              | 0.00           | ---   | beta-BHC            |                      |
| ----  |                               |                            | 5.688  | 0.027                  | 5432              | 0.00           | 0.26  | ---                 | delta-BHC            |
| ----  |                               |                            | ----   |                        | 0.00              | 0.00           | ---   | gamma-BHC (Lindane) |                      |
| ----  |                               |                            | 5.762  | 0.008                  | 1985              | 0.00           | 0.10  | ---                 | Heptachlor           |
| ----  |                               |                            | 6.140  | -0.018                 | 31200             | 0.00           | 1.42  | ---                 | Aldrin               |
| ----  |                               |                            | 6.797  | -0.017                 | 11082             | 0.00           | 0.61  | ---                 | Heptachlor epoxide b |
| ----  |                               |                            | 7.268  | 0.010                  | 6645              | 0.00           | 0.41  | ---                 | Endosulfan I         |
| ----  |                               |                            | ----   |                        | 0.00              | 0.00           | ---   | Dieldrin            |                      |
| ----  |                               |                            | 7.353  | 0.011                  | 15988             | 0.00           | 0.98  | ---                 | 4,4'-DDE             |
| ----  |                               |                            | 7.887  | 0.011                  | 3890              | 0.00           | 0.00  | ---                 | Endrin               |
| ----  |                               |                            | ----   |                        | 0.00              | 0.00           | ---   | Endosulfan II       |                      |
| ----  |                               |                            | 7.974  | 0.026                  | 7519              | 0.00           | 0.00  | ---                 | 4,4'-DDD             |
| ----  |                               |                            | 8.693  | 0.006                  | 9885              | 0.00           | 0.00  | ---                 | Endosulfan sulfate   |
| ----  |                               |                            | 8.249  | -0.018                 | 13761             | 0.00           | 0.00  | ---                 | 4,4'-DDT             |
| ----  |                               |                            | ----   |                        | 0.00              | 0.00           | ---   | Methoxychlor        |                      |
| ----  |                               |                            | 9.182  | -0.027                 | 50440             | 0.00           | 0.00  | ---                 | Endrin ketone        |
| ----  |                               |                            | ----   |                        | 0.00              | 0.00           | ---   | Endrin aldehyde     |                      |
| ----  |                               |                            | 7.041  | 0.016                  | 11240             | 0.00           | 0.62  | ---                 | trans-Chlordane      |
| ----  |                               |                            | 7.207  | 0.022                  | 4103              | 0.00           | 0.23  | ---                 | cis-Chlordane        |
| ----  |                               |                            | 2.506  | 0.023                  | 9439              | 0.00           | 0.40  | ---                 | Hexachlorobutadiene  |
| ----  |                               |                            | 4.674  | -0.019                 | 13166             | 0.00           | 0.58  | ---                 | Hexachlorobenzene    |
| 3.791 | -0.009                        | 466084                     | 4.182  | -0.014                 | 691728            | 42.69          | 39.23 | 8.4                 | Tetrachloro-m-xylene |
| 9.306 | -0.013                        | 328504                     | 10.402 | -0.027                 | 457793            | 52.76          | 0.00  | ---                 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 672426         | 802874      | 19.4 |
| Hexabromobiphenyl  | 609723         | 614530      | 0.8  |

| Column 2           |                |             |           |
|--------------------|----------------|-------------|-----------|
| Standard Cpnd      | Standard Area* | Sample Area | %D        |
| Bromo-Nitrobenzene | 1006482        | 1252661     | 24.5      |
| Hexabromobiphenyl  | 769764         | 0           | -100.0 <- |

\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

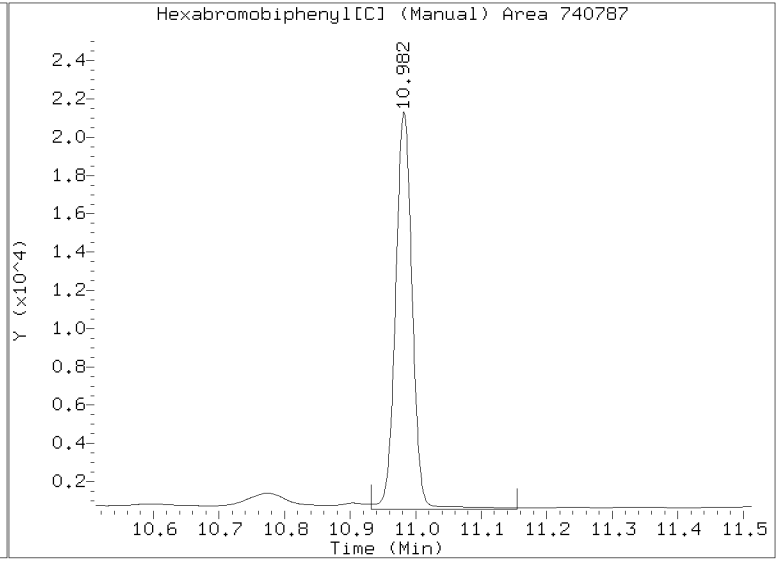
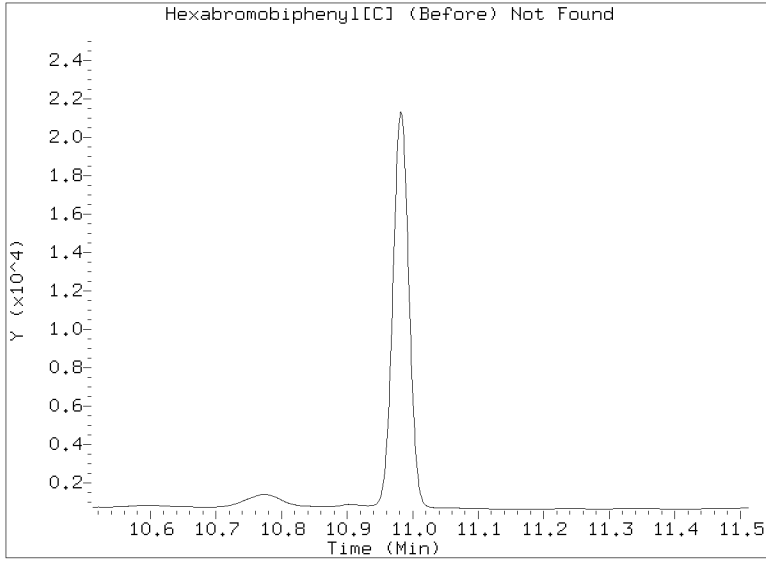


Manual Peak Adjustment Report, CLP-2

Datafile: /20230209.b/B20230209.b/23020925.D

Injection Date: 10-FEB-2023 02:39

Lab ID:BLA0556-BLK1 Client ID:





**LCS / LCS DUPLICATE RECOVERY**  
**EPA 8081B**

|                |                                  |                |                        |
|----------------|----------------------------------|----------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u> |
| Matrix:        | <u>Solid</u>                     | Analyzed:      | <u>02/10/23 02:57</u>  |
| Batch:         | <u>BLA0556</u>                   | Laboratory ID: | <u>BLA0556-BS1</u>     |
| Preparation:   | <u>EPA 3546 (Microwave)</u>      | Sequence Name: | <u>LCS</u>             |
| Initial/Final: | <u>12.5 g / 2.5 mL</u>           |                |                        |

| COMPOUND          | SPIKE ADDED<br>(ug/kg wet) | LCS CONCENTRATION<br>(ug/kg wet) | Q | LCS %<br>REC. # | QC LIMITS<br>REC. |
|-------------------|----------------------------|----------------------------------|---|-----------------|-------------------|
| Hexachlorobenzene | 4.00                       | 2.93                             |   | 73.2            | 26 - 128          |

\* Indicates values outside of QC limits

| COMPOUND          | SPIKE ADDED<br>(ug/kg wet) | LCSD CONCENTRATION<br>(ug/kg wet) | Q | LCSD %<br>REC. # | %<br>RPD # | QC LIMITS |          |
|-------------------|----------------------------|-----------------------------------|---|------------------|------------|-----------|----------|
|                   |                            |                                   |   |                  |            | RPD       | REC.     |
| Hexachlorobenzene | 4.00                       | 3.04                              |   | 76.0             | 3.73       | 30        | 26 - 128 |

\* Indicates values outside of QC limits



Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020926.D  
Data file 2: /20230209.b/B20230209.b/23020926.D  
Method: \20230209.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: AA/JR

ARI ID: BIA0556-BS1  
Client ID:  
Injection Date: 10-FEB-2023 02:57  
Report Date: 02/11/2023 06:18  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Response | RT     | CLP2 Col<br>Shift Response | CLP2 Col<br>Response | STX-CLP<br>on col | CLP2<br>on col | RPD  | Compound/Flag        |
|-------|-------------------------------|----------------------|--------|----------------------------|----------------------|-------------------|----------------|------|----------------------|
| 4.299 | -0.011                        | 260763               | 4.816  | -0.017                     | 406672               | 16.07             | 14.82          | 8.1  | alpha-BHC            |
| 4.681 | -0.012                        | 108690               | 5.291  | -0.019                     | 164551               | 17.40             | 15.78          | 9.8  | beta-BHC             |
| 4.863 | -0.013                        | 241103               | 5.642  | -0.020                     | 371203               | 18.18             | 16.43          | 10.1 | delta-BHC            |
| 4.599 | -0.012                        | 241144               | 5.210  | -0.019                     | 367147               | 17.14             | 15.77          | 8.3  | gamma-BHC (Lindane)  |
| 5.079 | -0.014                        | 219690               | 5.734  | -0.021                     | 332169               | 17.55             | 15.75          | 10.8 | Heptachlor           |
| 5.400 | -0.014                        | 226090               | 6.136  | -0.022                     | 298505               | 16.12             | 12.40          | 26.1 | Aldrin               |
| 6.072 | -0.016                        | 203649               | 6.793  | -0.021                     | 292638               | 16.74             | 14.70          | 13.0 | Heptachlor epoxide b |
| 6.515 | -0.015                        | 302723               | 7.236  | -0.021                     | 392600               | 27.12             | 22.37          | 19.2 | Endosulfan I         |
| ----  |                               |                      | ----   |                            |                      | 0.00              | 0.00           | ---  | Dieldrin             |
| 6.436 | -0.015                        | 393904               | 7.322  | -0.020                     | 516674               | 35.38             | 29.06          | 19.6 | 4,4'-DDE             |
| ----  |                               |                      | 7.865  | -0.011                     | 4152                 | 0.00              | 0.37           | ---  | Endrin               |
| 7.263 | -0.015                        | 114627               | 8.067  | -0.020                     | 143282               | 14.74             | 12.53          | 16.2 | Endosulfan II        |
| 7.085 | -0.014                        | 333564               | 7.929  | -0.019                     | 423900               | 42.86             | 39.06          | 9.3  | 4,4'-DDD             |
| 8.126 | -0.014                        | 258483               | 8.666  | -0.020                     | 265972               | 35.00             | 26.49          | 27.7 | Endosulfan sulfate   |
| 7.377 | -0.014                        | 333097               | 8.247  | -0.020                     | 409098               | 42.35             | 39.06          | 8.1  | 4,4'-DDT             |
| 7.865 | -0.012                        | 22777                | 8.890  | -0.019                     | 36500                | 6.54              | 7.88           | 18.6 | Methoxychlor         |
| 8.400 | -0.015                        | 291952               | 9.189  | -0.020                     | 346781               | 34.51             | 31.97          | 7.6  | Endrin ketone        |
| 7.692 | -0.015                        | 26727                | 8.398  | -0.020                     | 41139                | 4.31              | 5.10           | 16.8 | Endrin aldehyde      |
| 6.214 | -0.016                        | 213186               | 7.004  | -0.021                     | 292617               | 17.26             | 14.74          | 15.8 | trans-Chlordane      |
| 6.361 | -0.015                        | 211225               | 7.164  | -0.021                     | 271960               | 17.05             | 14.00          | 19.6 | cis-Chlordane        |
| 2.296 | -0.007                        | 230173               | ----   |                            |                      | 13.54             | 0.00           | ---  | Hexachlorobutadiene  |
| 4.142 | -0.010                        | 220546               | 4.676  | -0.016                     | 335731               | 14.64             | 13.45          | 8.5  | Hexachlorobenzene    |
| 3.791 | -0.009                        | 325945               | 4.183  | -0.014                     | 512337               | 28.44             | 26.59          | 6.7  | Tetrachloro-m-xylene |
| 9.306 | -0.013                        | 234849               | 10.403 | -0.026                     | 310732               | 35.18             | 35.83          | 1.9  | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 672426         | 842752      | 25.3 |
| Hexabromobiphenyl  | 609723         | 658929      | 8.1  |

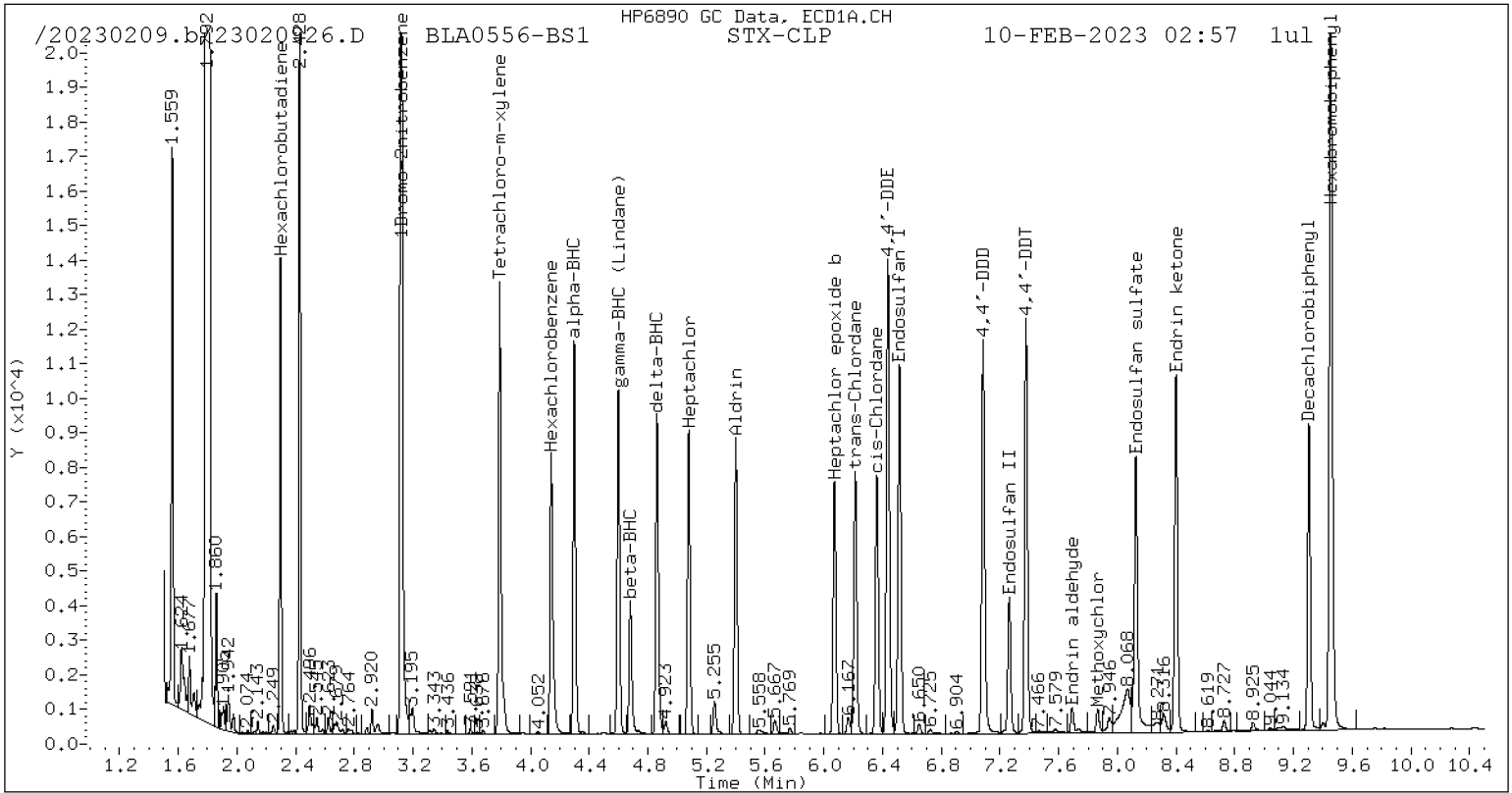
| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1006482        | 1368797     | 36.0 |
| Hexabromobiphenyl  | 769764         | 784600      | 1.9  |

\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

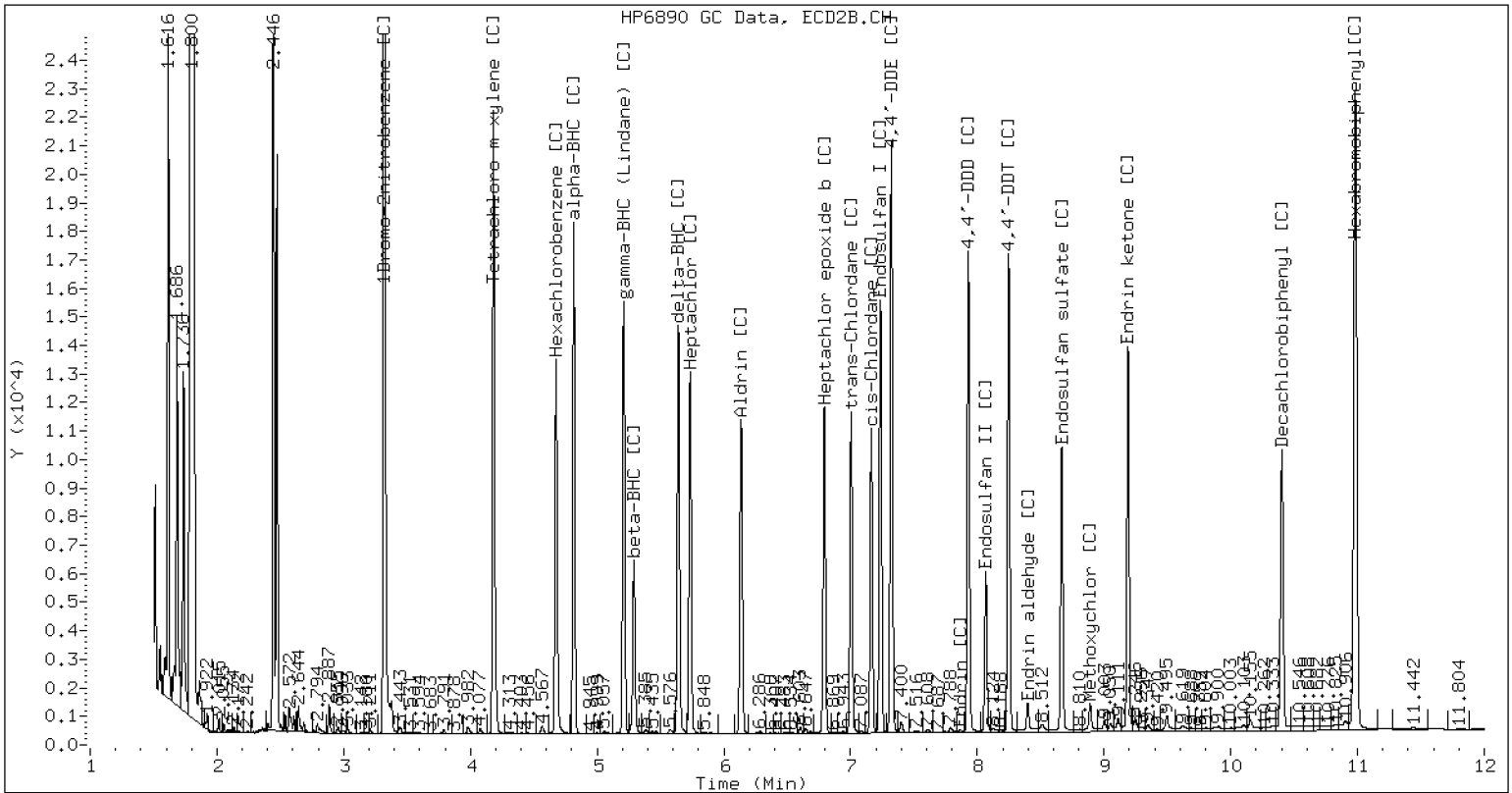
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230209.b/B20230209.b/23020926.D BLA0556-BS1 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020927.D  
Data file 2: /20230209.b/B20230209.b/23020927.D  
Method: \20230209.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: AA/JR

ARI ID: BIA0556-BSD1  
Client ID:  
Injection Date: 10-FEB-2023 03:15  
Report Date: 02/11/2023 06:18  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Response | RT     | CLP2 Col<br>Shift Response | CLP2 Col<br>Response | STX-CLP<br>on col | CLP2<br>on col | RPD  | Compound/Flag        |
|-------|-------------------------------|----------------------|--------|----------------------------|----------------------|-------------------|----------------|------|----------------------|
| 4.299 | -0.011                        | 283890               | 4.816  | -0.017                     | 441531               | 16.69             | 15.29          | 8.8  | alpha-BHC            |
| 4.681 | -0.012                        | 113400               | 5.291  | -0.019                     | 174271               | 17.32             | 15.87          | 8.7  | beta-BHC             |
| 4.863 | -0.012                        | 255674               | 5.641  | -0.021                     | 404845               | 18.39             | 17.02          | 7.8  | delta-BHC            |
| 4.599 | -0.012                        | 259103               | 5.210  | -0.019                     | 406111               | 17.57             | 16.57          | 5.9  | gamma-BHC (Lindane)  |
| 5.079 | -0.014                        | 232631               | 5.733  | -0.021                     | 362132               | 17.73             | 16.31          | 8.3  | Heptachlor           |
| 5.400 | -0.014                        | 240598               | 6.135  | -0.022                     | 317477               | 16.36             | 12.52          | 26.6 | Aldrin               |
| 6.072 | -0.016                        | 214026               | 6.792  | -0.022                     | 314221               | 16.79             | 14.99          | 11.3 | Heptachlor epoxide b |
| 6.516 | -0.015                        | 322971               | 7.236  | -0.021                     | 431407               | 27.60             | 23.35          | 16.7 | Endosulfan I         |
| ----  |                               |                      | ----   |                            |                      | 0.00              | 0.00           | ---  | Dieldrin             |
| 6.437 | -0.015                        | 418017               | 7.322  | -0.020                     | 567587               | 35.82             | 30.32          | 16.6 | 4,4'-DDE             |
| ----  |                               |                      | 7.864  | -0.011                     | 3734                 | 0.00              | 0.00           | ---  | Endrin               |
| 7.264 | -0.014                        | 83871                | 8.067  | -0.021                     | 101009               | 9.77              | 0.00           | ---  | Endosulfan II        |
| 7.086 | -0.013                        | 358162               | 7.929  | -0.020                     | 465342               | 41.67             | 0.00           | ---  | 4,4'-DDD             |
| 8.126 | -0.014                        | 219273               | 8.665  | -0.021                     | 283773               | 26.89             | 0.00           | ---  | Endosulfan sulfite   |
| 7.378 | -0.013                        | 362579               | 8.247  | -0.020                     | 444245               | 41.75             | 0.00           | ---  | 4,4'-DDT             |
| 7.865 | -0.012                        | 12491                | 8.890  | -0.019                     | 30819                | 3.25              | 0.00           | ---  | Methoxychlor         |
| 8.400 | -0.015                        | 268889               | 9.189  | -0.021                     | 325942               | 28.78             | 0.00           | ---  | Endrin ketone        |
| 7.692 | -0.015                        | 19069                | 8.398  | -0.020                     | 33068                | 2.78              | 0.00           | ---  | Endrin aldehyde      |
| 6.214 | -0.015                        | 237839               | 7.004  | -0.021                     | 320329               | 18.37             | 15.32          | 18.1 | trans-Chlordane      |
| 6.361 | -0.015                        | 221941               | 7.163  | -0.021                     | 299815               | 17.09             | 14.66          | 15.3 | cis-Chlordane        |
| 2.296 | -0.007                        | 241764               | ----   |                            |                      | 13.57             | 0.00           | ---  | Hexachlorobutadiene  |
| 4.143 | -0.010                        | 239992               | 4.676  | -0.017                     | 366419               | 15.20             | 13.94          | 8.6  | Hexachlorobenzene    |
| 3.791 | -0.009                        | 350863               | 4.182  | -0.014                     | 560932               | 29.20             | 27.65          | 5.5  | Tetrachloro-m-xylene |
| 9.306 | -0.013                        | 230761               | 10.403 | -0.026                     | 325036               | 31.30             | 0.00           | ---  | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 672426         | 883445      | 31.4 |
| Hexabromobiphenyl  | 609723         | 727664      | 19.3 |

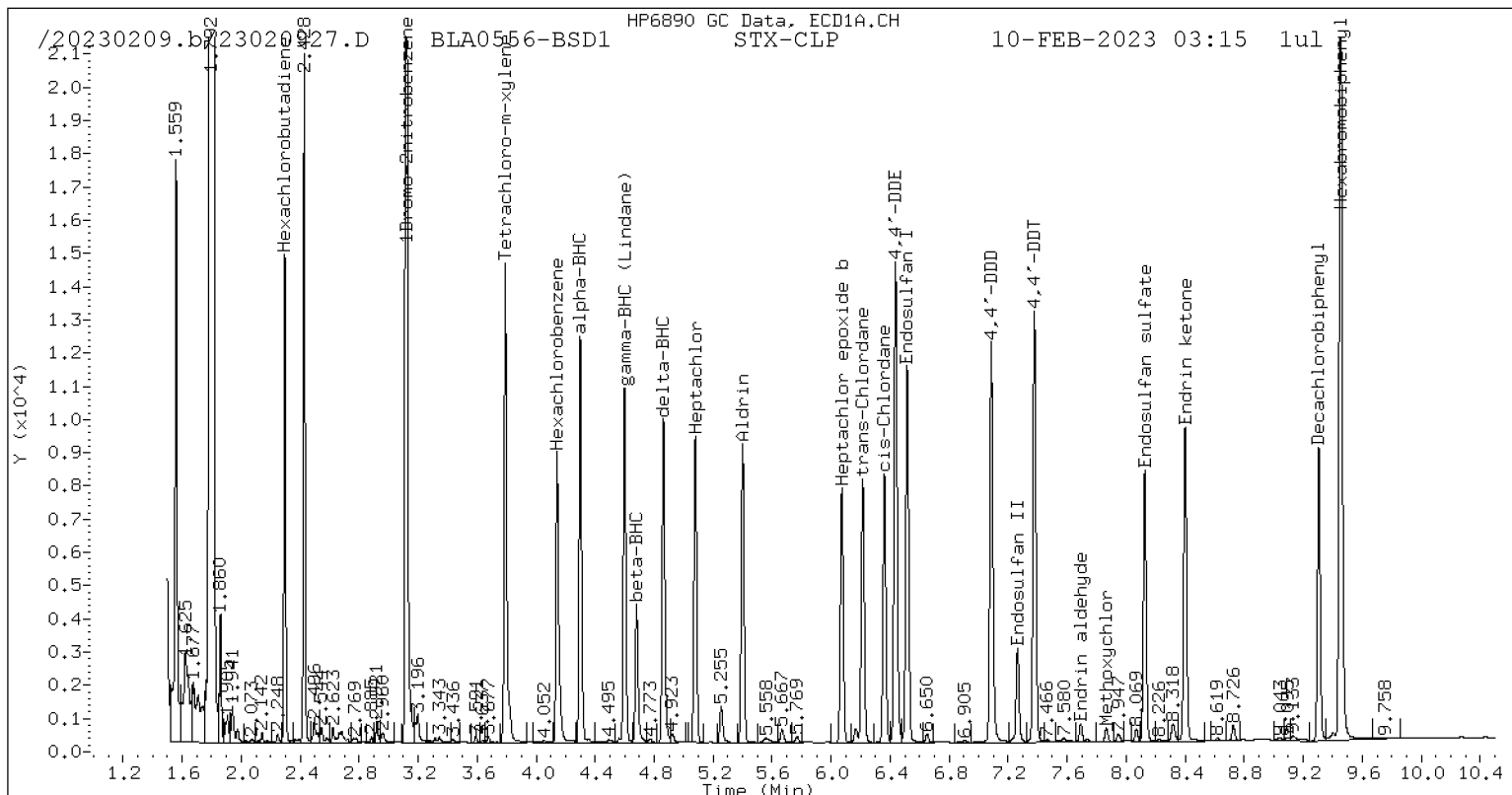
| Column 2           |                |             |           |
|--------------------|----------------|-------------|-----------|
| Standard Cpnd      | Standard Area* | Sample Area | %D        |
| Bromo-Nitrobenzene | 1006482        | 1441193     | 43.2      |
| Hexabromobiphenyl  | 769764         | 0           | -100.0 <- |

\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

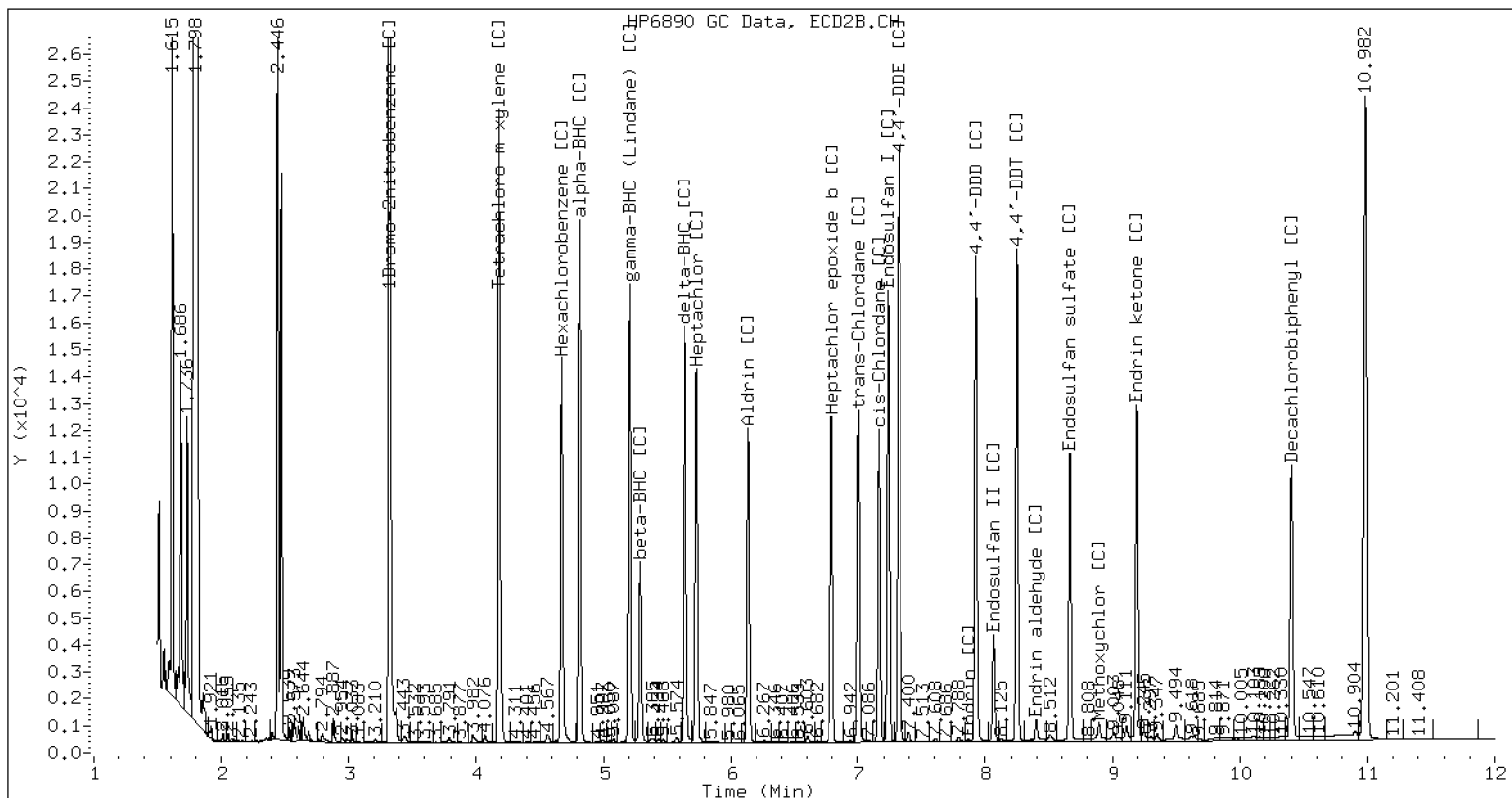
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230209.b/B20230209.b/23020927.D BLA0556-BSD1 CLP2



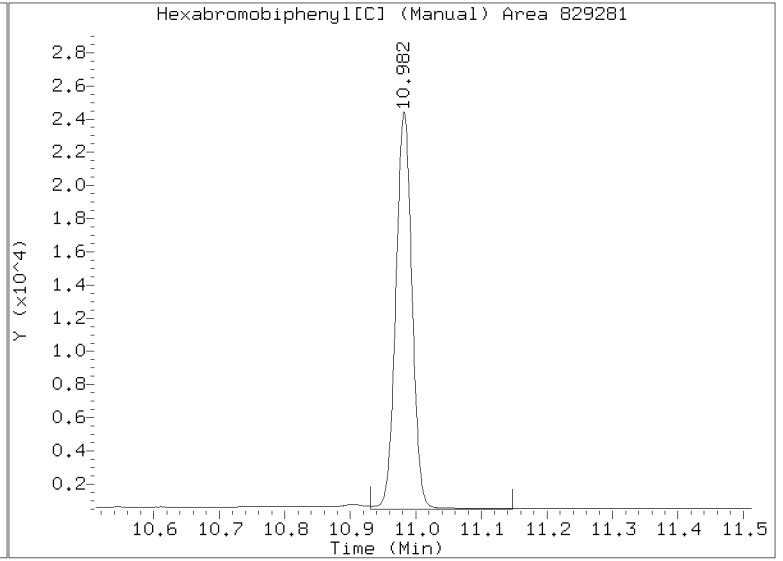
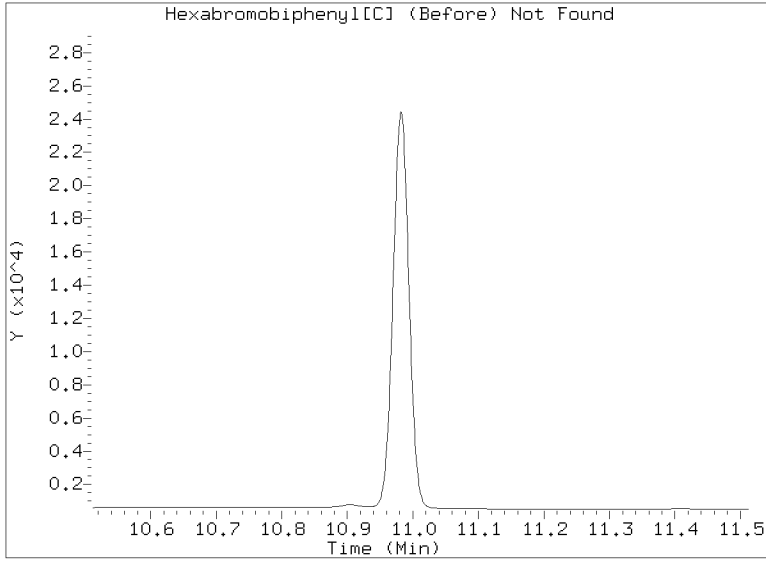
CLP-2 Manual Integration: NO

Manual Peak Adjustment Report, CLP-2

Datafile: /20230209.b/B20230209.b/23020927.D

Injection Date: 10-FEB-2023 03:15

Lab ID:BLA0556-BSD1 Client ID:





**MS / MS DUPLICATE RECOVERY**  
**EPA 8081B**

|                |                                  |                |                        |
|----------------|----------------------------------|----------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>         |
| Client:        | <u>Anchor OEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u> |
| Matrix:        | <u>Solid</u>                     | Analyzed:      | <u>02/10/23 03:33</u>  |
| Batch:         | <u>BLA0556</u>                   | Laboratory ID: | <u>BLA0556-MS1</u>     |
| Preparation:   | <u>EPA 3546 (Microwave)</u>      | Sequence Name: | <u>Matrix Spike</u>    |
| Initial/Final: | <u>16.76 g / 2.5 mL</u>          | Source Sample: | <u>LDW23-SS1200</u>    |

| COMPOUND          | SPIKE ADDED (ug/kg dry) | SAMPLE CONCENTRATION (ug/kg dry) | Q | MS CONCENTRATION (ug/kg dry) | Q | MS % REC. # | QC LIMITS REC. |
|-------------------|-------------------------|----------------------------------|---|------------------------------|---|-------------|----------------|
| Hexachlorobenzene | 4.00                    | ND                               | U | 3.01                         |   | 75.3        | 26 - 128       |

\* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.





**MS / MS DUPLICATE RECOVERY**  
**EPA 8081B**

|                |                                  |                |                         |
|----------------|----------------------------------|----------------|-------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>          |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u>  |
| Matrix:        | <u>Solid</u>                     | Analyzed:      | <u>02/10/23 03:51</u>   |
| Batch:         | <u>BLA0556</u>                   | Laboratory ID: | <u>BLA0556-MSD1</u>     |
| Preparation:   | <u>EPA 3546 (Microwave)</u>      | Sequence Name: | <u>Matrix Spike Dup</u> |
| Initial/Final: | <u>16.76 g / 2.5 mL</u>          | Source Sample: | <u>LDW23-SS1200</u>     |

| COMPOUND          | SPIKE ADDED (ug/kg dry) | MSD CONCENTRATION (ug/kg dry) | Q | MSD % REC. # | % RPD # | QC LIMITS |          |
|-------------------|-------------------------|-------------------------------|---|--------------|---------|-----------|----------|
|                   |                         |                               |   |              |         | RPD       | REC.     |
| Hexachlorobenzene | 4.00                    | 3.40                          |   | 85.0         | 12.2    | 30        | 26 - 128 |

\* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020928.D  
Data file 2: /20230209.b/B20230209.b/23020928.D  
Method: \20230209.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: AA/JR

ARI ID: BIA0556-MS1  
Client ID:  
Injection Date: 10-FEB-2023 03:33  
Report Date: 02/11/2023 06:18  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT     | CLP2 Col<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD   | Compound/Flag |                      |
|-------|-------------------------------|----------------------------|--------|----------------------------|-------------------|----------------|-------|---------------|----------------------|
| 4.298 | -0.012                        | 267563                     | 4.815  | -0.017                     | 365669            | 15.56          | 13.35 | 15.3          | alpha-BHC            |
| 4.680 | -0.013                        | 98957                      | 5.290  | -0.019                     | 141108            | 14.95          | 13.55 | 9.8           | beta-BHC             |
| 4.861 | -0.014                        | 220443                     | 5.640  | -0.021                     | 327391            | 15.69          | 14.51 | 7.8           | delta-BHC            |
| 4.599 | -0.013                        | 236537                     | 5.209  | -0.020                     | 331140            | 15.87          | 14.24 | 10.8          | gamma-BHC (Lindane)  |
| 5.079 | -0.014                        | 199323                     | 5.733  | -0.021                     | 314181            | 15.03          | 14.92 | 0.7           | Heptachlor           |
| 5.400 | -0.014                        | 198621                     | 6.135  | -0.023                     | 317386            | 13.36          | 13.20 | 1.2           | Aldrin               |
| 6.072 | -0.017                        | 194159                     | 6.792  | -0.022                     | 283594            | 15.06          | 14.26 | 5.5           | Heptachlor epoxide b |
| 6.515 | -0.016                        | 247511                     | 7.236  | -0.021                     | 345006            | 20.92          | 19.69 | 6.1           | Endosulfan I         |
| ----  |                               |                            | ----   |                            |                   | 0.00           | 0.00  | ---           | Dieldrin             |
| 6.435 | -0.016                        | 354325                     | 7.321  | -0.021                     | 524726            | 30.03          | 29.55 | 1.6           | 4,4'-DDE             |
| ----  |                               |                            | 7.886  | 0.010                      | 46211             | 0.00           | 0.00  | ---           | Endrin               |
| 7.263 | -0.015                        | 86594                      | 8.066  | -0.021                     | 152843            | 10.61          | 0.00  | ---           | Endosulfan II        |
| 7.084 | -0.016                        | 334833                     | 7.928  | -0.021                     | 416036            | 41.01          | 0.00  | ---           | 4,4'-DDD             |
| 8.126 | -0.015                        | 183915                     | 8.702  | 0.016                      | 24728             | 23.74          | 0.00  | ---           | Endosulfan sulfate   |
| 7.376 | -0.015                        | 333930                     | 8.246  | -0.020                     | 457497            | 40.47          | 0.00  | ---           | 4,4'-DDT             |
| 7.864 | -0.013                        | 16564                      | 8.925  | 0.016                      | 6205              | 4.53           | 0.00  | ---           | Methoxychlor         |
| 8.399 | -0.015                        | 258596                     | 9.189  | -0.020                     | 387417            | 29.14          | 0.00  | ---           | Endrin ketone        |
| 7.714 | 0.008                         | 35915                      | 8.431  | 0.013                      | 7100              | 5.52           | 0.00  | ---           | Endrin aldehyde      |
| 6.214 | -0.015                        | 178896                     | 7.004  | -0.022                     | 276952            | 13.66          | 13.97 | 2.2           | trans-Chlordane      |
| 6.361 | -0.015                        | 185645                     | 7.164  | -0.021                     | 256812            | 14.14          | 13.24 | 6.6           | cis-Chlordane        |
| 2.296 | -0.007                        | 233115                     | 2.473  | -0.009                     | 334727            | 12.94          | 12.87 | 0.6           | Hexachlorobutadiene  |
| 4.141 | -0.011                        | 240440                     | 4.675  | -0.017                     | 357962            | 15.06          | 14.36 | 4.8           | Hexachlorobenzene    |
| 3.790 | -0.010                        | 371620                     | 4.182  | -0.015                     | 538787            | 30.59          | 28.00 | 8.8           | Tetrachloro-m-xylene |
| 9.306 | -0.013                        | 228593                     | 10.403 | -0.026                     | 317758            | 32.64          | 0.00  | ---           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 672426         | 893167      | 32.8 |
| Hexabromobiphenyl  | 609723         | 691270      | 13.4 |

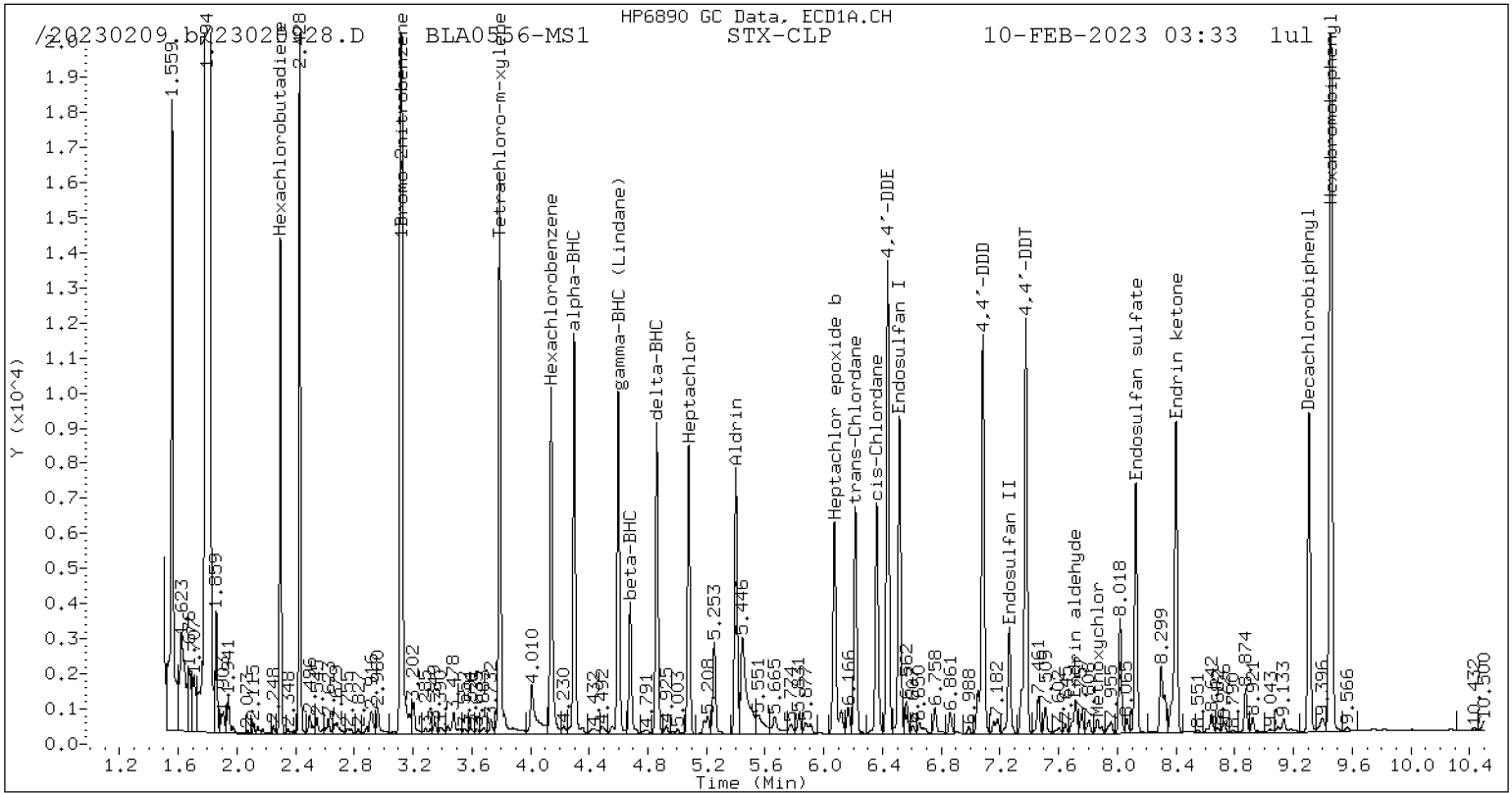
| Column 2           |                |             |           |
|--------------------|----------------|-------------|-----------|
| Standard Cpnd      | Standard Area* | Sample Area | %D        |
| Bromo-Nitrobenzene | 1006482        | 1366890     | 35.8      |
| Hexabromobiphenyl  | 769764         | 0           | -100.0 <- |

\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

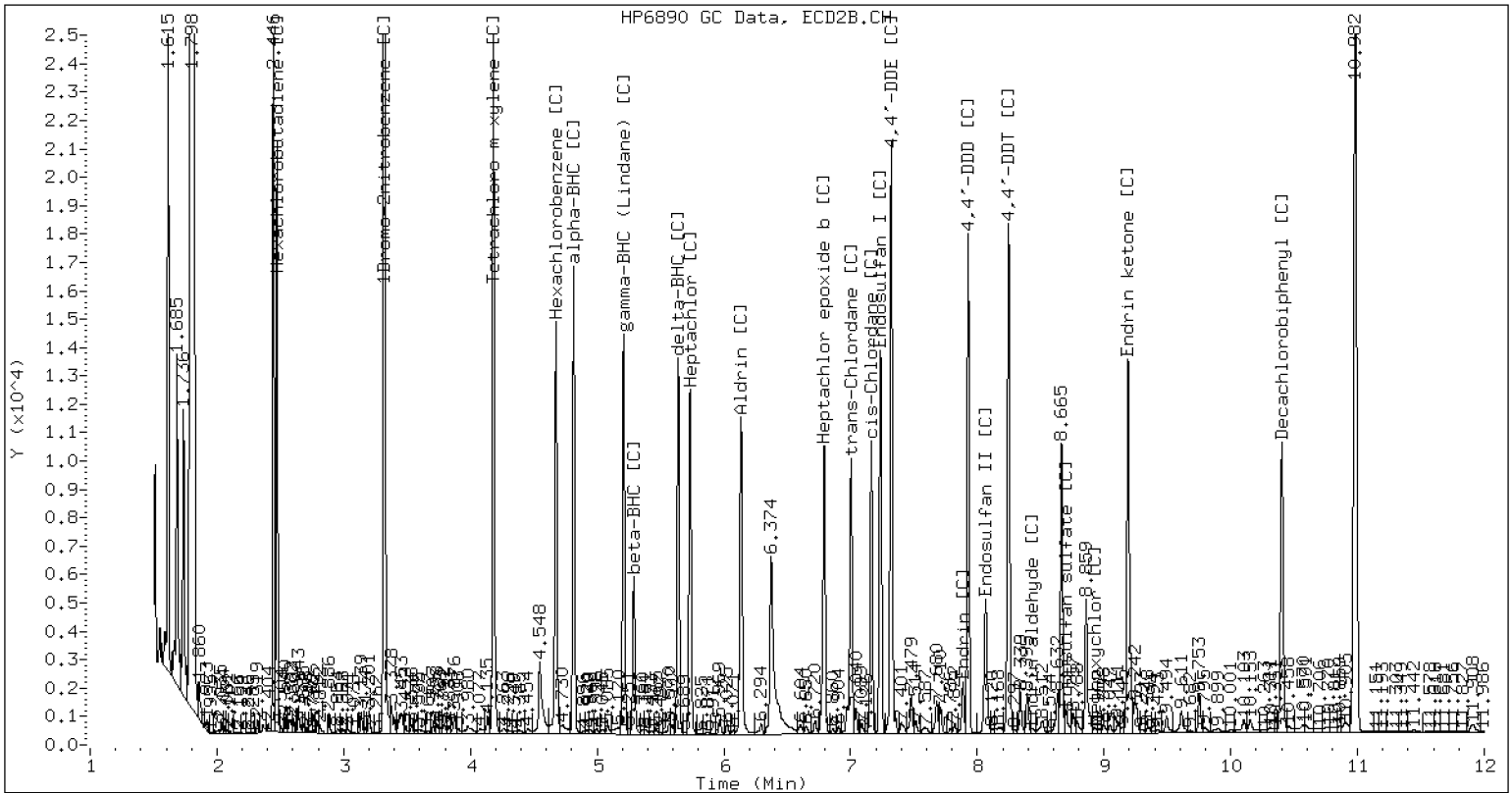
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230209.b/B20230209.b/23020928.D BLA0556-MS1 CLP2



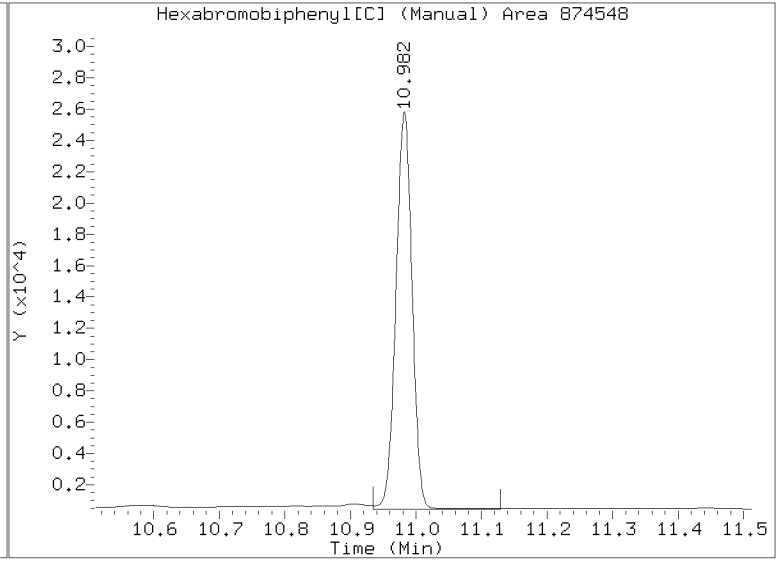
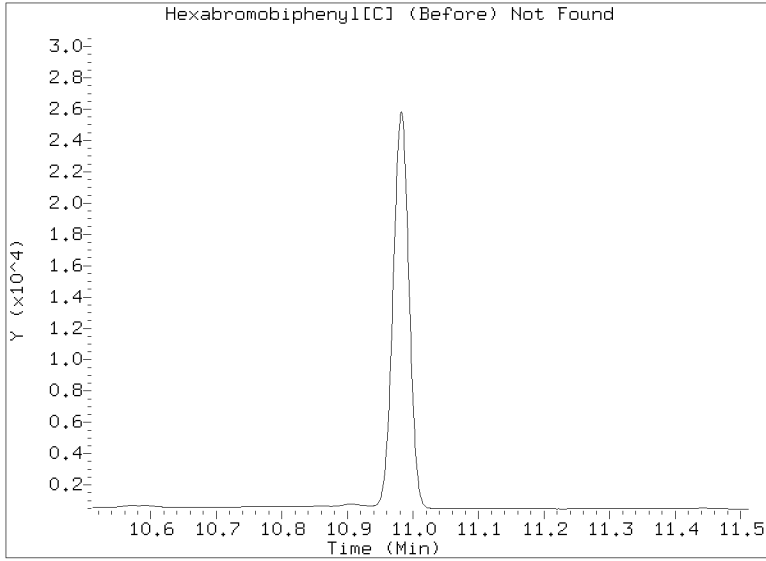
CLP-2 Manual Integration: NO

Manual Peak Adjustment Report, CLP-2

Datafile: /20230209.b/B20230209.b/23020928.D

Injection Date: 10-FEB-2023 03:33

Lab ID:BLA0556-MS1 Client ID:



Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020929.D  
Data file 2: /20230209.b/B20230209.b/23020929.D  
Method: \20230209.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: AA/JR

ARI ID: BIA0556-MSD1  
Client ID:  
Injection Date: 10-FEB-2023 03:51  
Report Date: 02/11/2023 06:18  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT     | CLP2<br>Shift Response | 339798 | STX-CLP<br>on col | CLP2<br>on col | RPD  | Compound/Flag        |
|-------|-------------------------------|----------------------------|--------|------------------------|--------|-------------------|----------------|------|----------------------|
| 4.298 | -0.012                        | 294464                     | 4.815  | -0.017                 | 385834 | 16.82             | 14.20          | 16.9 | alpha-BHC            |
| 4.680 | -0.013                        | 115186                     | 5.290  | -0.019                 | 145941 | 17.09             | 14.13          | 19.0 | beta-BHC             |
| 4.862 | -0.014                        | 232329                     | 5.640  | -0.021                 | 339798 | 16.24             | 15.19          | 6.7  | delta-BHC            |
| 4.599 | -0.013                        | 279680                     | 5.209  | -0.020                 | 356571 | 18.43             | 15.47          | 17.5 | gamma-BHC (Lindane)  |
| 5.079 | -0.014                        | 210796                     | 5.733  | -0.021                 | 335540 | 15.61             | 16.07          | 2.9  | Heptachlor           |
| 5.400 | -0.014                        | 204202                     | 6.136  | -0.022                 | 324012 | 13.49             | 13.59          | 0.7  | Aldrin               |
| 6.072 | -0.016                        | 178676                     | 6.792  | -0.022                 | 290072 | 13.62             | 14.71          | 7.7  | Heptachlor epoxide b |
| 6.515 | -0.016                        | 254408                     | 7.236  | -0.021                 | 341633 | 21.13             | 19.66          | 7.2  | Endosulfan I         |
| ----  |                               |                            | ----   |                        |        | 0.00              | 0.00           | ---  | Dieldrin             |
| 6.435 | -0.016                        | 371219                     | 7.321  | -0.021                 | 549338 | 30.90             | 31.20          | 1.0  | 4,4'-DDE             |
| ----  |                               |                            | 7.886  | 0.011                  | 36526  | 0.00              | 0.00           | ---  | Endrin               |
| 7.263 | -0.015                        | 92968                      | 8.066  | -0.021                 | 164720 | 11.49             | 0.00           | ---  | Endosulfan II        |
| 7.084 | -0.015                        | 338671                     | 7.928  | -0.021                 | 416082 | 41.82             | 0.00           | ---  | 4,4'-DDD             |
| 8.127 | -0.014                        | 175858                     | 8.665  | -0.021                 | 290127 | 22.89             | 0.00           | ---  | Endosulfan sulfates  |
| 7.376 | -0.015                        | 346070                     | 8.247  | -0.020                 | 478335 | 42.29             | 0.00           | ---  | 4,4'-DDT             |
| 7.862 | -0.015                        | 18774                      | ----   |                        |        | 5.18              | 0.00           | ---  | Methoxychlor         |
| 8.399 | -0.015                        | 250306                     | 9.189  | -0.021                 | 380406 | 28.44             | 0.00           | ---  | Endrin ketone        |
| 7.715 | 0.008                         | 29017                      | 8.395  | -0.024                 | 26291  | 4.50              | 0.00           | ---  | Endrin aldehyde      |
| 6.214 | -0.015                        | 184850                     | 7.004  | -0.021                 | 306059 | 13.87             | 15.57          | 11.5 | trans-Chlordane      |
| 6.361 | -0.015                        | 189231                     | 7.164  | -0.021                 | 265077 | 14.16             | 13.78          | 2.7  | cis-Chlordane        |
| 2.297 | -0.007                        | 231405                     | ----   |                        |        | 12.62             | 0.00           | ---  | Hexachlorobutadiene  |
| 4.141 | -0.012                        | 276664                     | 4.675  | -0.017                 | 406141 | 17.02             | 16.43          | 3.6  | Hexachlorobenzene    |
| 3.790 | -0.010                        | 401537                     | 4.182  | -0.014                 | 548698 | 32.47             | 28.76          | 12.1 | Tetrachloro-m-xylene |
| 9.306 | -0.013                        | 239553                     | 10.403 | -0.026                 | 331896 | 34.48             | 0.00           | ---  | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 672426         | 909299      | 35.2 |
| Hexabromobiphenyl  | 609723         | 685650      | 12.5 |

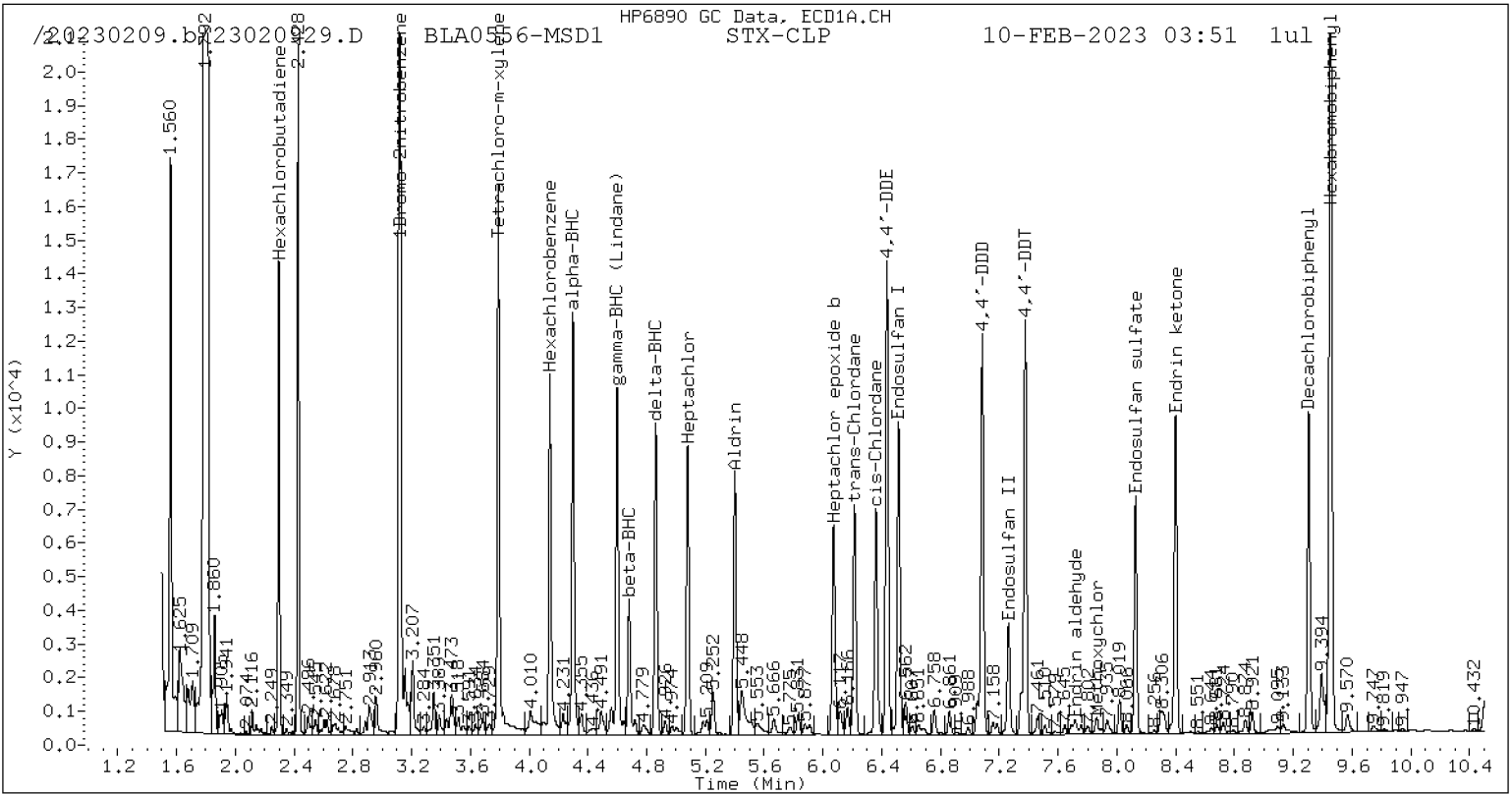
| Column 2           |                |             |           |
|--------------------|----------------|-------------|-----------|
| Standard Cpnd      | Standard Area* | Sample Area | %D        |
| Bromo-Nitrobenzene | 1006482        | 1355508     | 34.7      |
| Hexabromobiphenyl  | 769764         | 0           | -100.0 <- |

\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

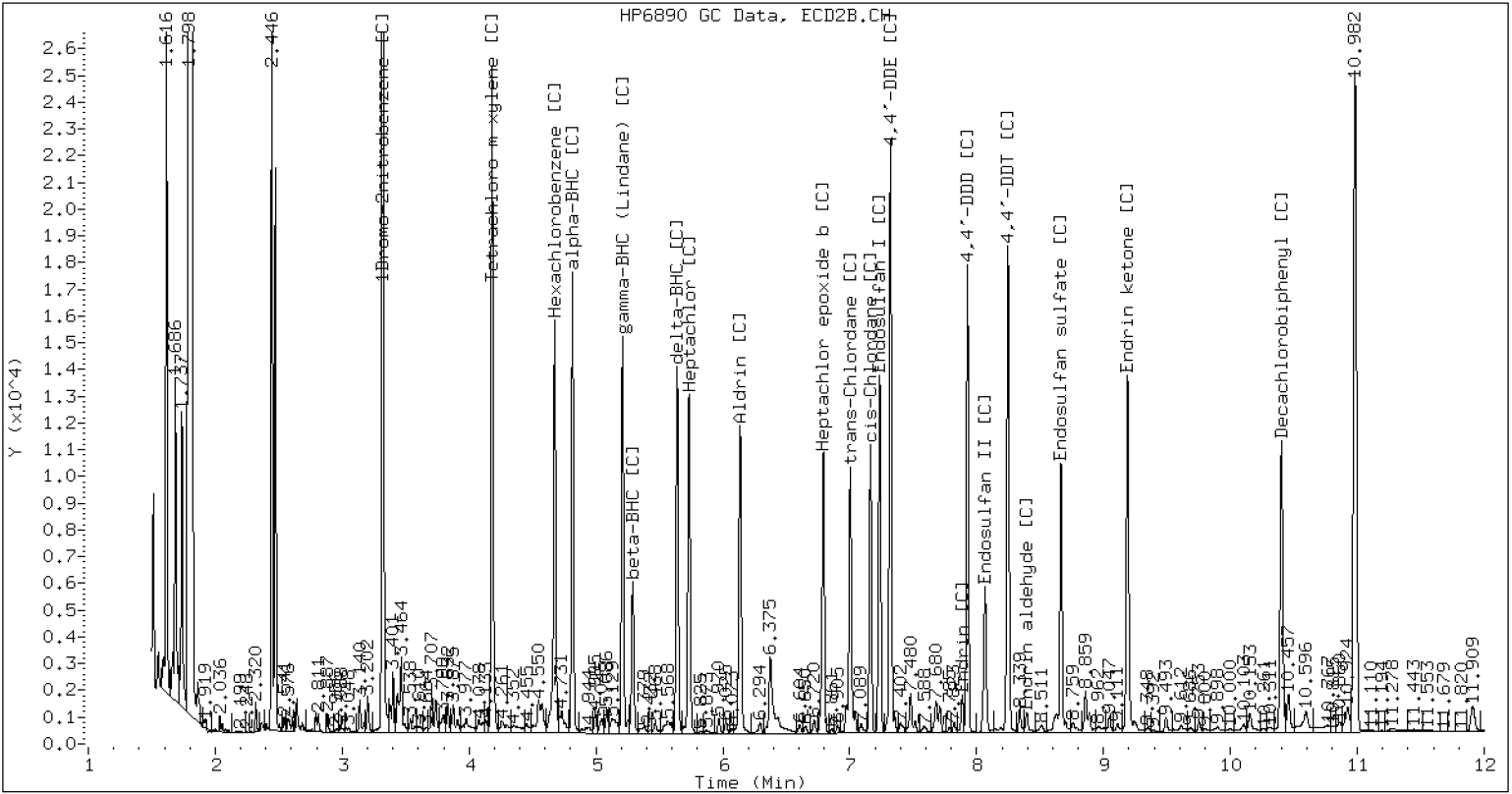
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230209.b/B20230209.b/23020929.D BLA0556-MSD1 CLP2



CLP-2 Manual Integration: NO

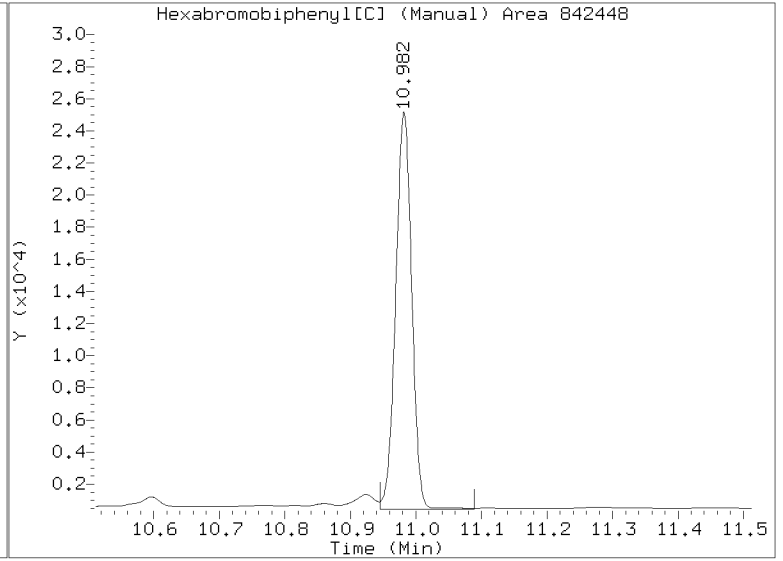
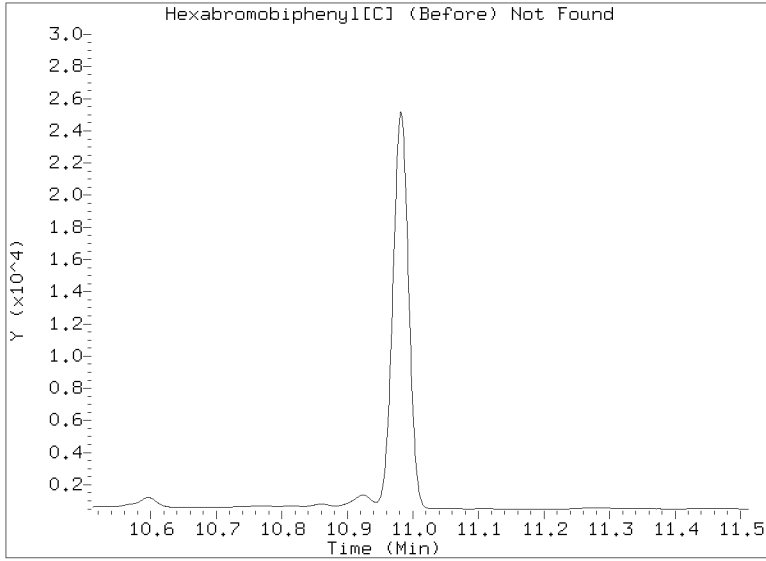


Manual Peak Adjustment Report, CLP-2

Datafile: /20230209.b/B20230209.b/23020929.D

Injection Date: 10-FEB-2023 03:51

Lab ID:BLA0556-MSD1 Client ID:





**INITIAL CALIBRATION DATA**  
**EPA 8081B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: FL00041

Instrument: ECD6

Calibration Date: 12/14/2022

Column (1): STX-CLP

| Compound                            | Level 01 |     | Level 02 |           | Level 03 |           | Level 04 |           | Level 05 |           | Level 06 |           |
|-------------------------------------|----------|-----|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|
|                                     | Conc     | RRF | Conc     | RRF       | Conc     | RRF       | Conc     | RRF       | Conc     | RRF       | Conc     | RRF       |
| alpha-BHC                           |          |     | 2.5      | 1.564682  | 5        | 1.558115  | 10       | 1.57359   | 20       | 1.566596  | 40       | 1.528219  |
| beta-BHC                            |          |     | 2.5      | 0.6501672 | 5        | 0.6116678 | 10       | 0.6049898 | 20       | 0.5910241 | 40       | 0.567415  |
| gamma-BHC (Lindane)                 |          |     | 2.5      | 1.364013  | 5        | 1.359107  | 10       | 1.367627  | 20       | 1.357913  | 40       | 1.317203  |
| delta-BHC                           |          |     | 2.5      | 1.267737  | 5        | 1.264366  | 10       | 1.278672  | 20       | 1.286232  | 40       | 1.255792  |
| Heptachlor                          |          |     | 2.5      | 1.26903   | 5        | 1.222902  | 10       | 1.218715  | 20       | 1.207966  | 40       | 1.145438  |
| Aldrin                              |          |     | 2.5      | 1.349967  | 5        | 1.349283  | 10       | 1.40535   | 20       | 1.372547  | 40       | 1.307197  |
| Heptachlor Epoxide                  |          |     | 2.5      | 1.231126  | 5        | 1.189593  | 10       | 1.20792   | 20       | 1.178021  | 40       | 1.104377  |
| trans-Chlordane<br>(beta-Chlordane) |          |     | 2.5      | 1.262297  | 5        | 1.202181  | 10       | 1.202336  | 20       | 1.19062   | 40       | 1.128117  |
| cis-Chlordane<br>(alpha-chlordane)  |          |     | 2.5      | 1.308183  | 5        | 1.222582  | 10       | 1.200602  | 20       | 1.177182  | 40       | 1.111332  |
| Endosulfan I                        |          |     | 2.5      | 1.143813  | 5        | 1.097776  | 10       | 1.093658  | 20       | 1.076133  | 40       | 1.011287  |
| 4,4'-DDE                            |          |     | 5        | 1.141182  | 10       | 1.108491  | 20       | 1.098369  | 40       | 1.077225  | 80       | 0.9961189 |
| Dieldrin                            |          |     | 5        | 1.225418  | 10       | 1.190449  | 20       | 1.185191  | 40       | 1.155764  | 80       | 1.077517  |
| Endrin                              |          |     | 5        | 1.158191  | 10       | 1.117563  | 20       | 1.079508  | 40       | 1.061387  | 80       | 0.9725989 |
| Endosulfan II                       |          |     | 5        | 0.9400399 | 10       | 0.9913797 | 20       | 1.005265  | 40       | 0.925043  | 80       | 0.9337917 |
| 4,4'-DDD                            |          |     | 5        | 1.004568  | 10       | 0.9927897 | 20       | 0.9803235 | 40       | 0.9586353 | 80       | 0.8937077 |
| Endrin Aldehyde                     |          |     | 5        | 0.8167784 | 10       | 0.7834798 | 20       | 0.7706241 | 40       | 0.7573308 | 80       | 0.7147756 |
| 4,4'-DDT                            |          |     | 5        | 1.007054  | 10       | 0.9936998 | 20       | 0.9768522 | 40       | 0.9722874 | 80       | 0.9123228 |
| Endosulfan Sulfate                  |          |     | 5        | 0.9534179 | 10       | 0.9413755 | 20       | 0.9158457 | 40       | 0.9056998 | 80       | 0.8542021 |
| Endrin Ketone                       |          |     | 5        | 1.134866  | 10       | 1.083274  | 20       | 1.043162  | 40       | 1.021136  | 80       | 0.9645492 |
| Methoxychlor                        |          |     | 25       | 0.4887243 | 50       | 0.4567517 | 100      | 0.4291758 | 200      | 0.4123964 | 400      | 0.380531  |
| Hexachlorobutadiene                 |          |     | 2.5      | 1.967135  | 5        | 1.727858  | 10       | 1.608612  | 20       | 1.550898  | 40       | 1.457962  |
| Hexachlorobenzene                   |          |     | 2.5      | 1.583946  | 5        | 1.509865  | 10       | 1.463674  | 20       | 1.414258  | 40       | 1.348389  |
| Decachlorobiphenyl                  |          |     | 5        | 0.9567749 | 10       | 0.8690419 | 20       | 0.8114883 | 40       | 0.7853665 | 80       | 0.7399881 |
| Tetrachlorometaxylene               |          |     | 5        | 1.223478  | 10       | 1.154628  | 20       | 1.122612  | 40       | 1.064313  | 80       | 1.018952  |



## INITIAL CALIBRATION DATA

### EPA 8081B

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | FL00041                   | Instrument: | ECD6            |
| Calibration Date: | 12/14/2022                | Column (1): | STX-CLP         |

| Compound                         | Level 07 |           | Level 08 |     | Level 09 |           | Level 10 |           | Level 11 |           | Level 12 |           |
|----------------------------------|----------|-----------|----------|-----|----------|-----------|----------|-----------|----------|-----------|----------|-----------|
|                                  | Conc     | RRF       | Conc     | RRF | Conc     | RRF       | Conc     | RRF       | Conc     | RRF       | Conc     | RRF       |
| alpha-BHC                        | 80       | 1.449687  |          |     |          |           |          |           |          |           |          |           |
| beta-BHC                         | 80       | 0.5324503 |          |     |          |           |          |           |          |           |          |           |
| gamma-BHC (Lindane)              | 80       | 1.246178  |          |     |          |           |          |           |          |           |          |           |
| delta-BHC                        | 80       | 1.199667  |          |     |          |           |          |           |          |           |          |           |
| Heptachlor                       | 80       | 1.064858  |          |     |          |           |          |           |          |           |          |           |
| Aldrin                           | 80       | 1.204866  |          |     |          |           |          |           |          |           |          |           |
| Heptachlor Epoxide               | 80       | 1.016142  |          |     |          |           |          |           |          |           |          |           |
| trans-Chlordane (beta-Chlordane) | 80       | 1.050129  |          |     |          |           |          |           |          |           |          |           |
| cis-Chlordane (alpha-chlordane)  | 80       | 1.036345  |          |     |          |           |          |           |          |           |          |           |
| Endosulfan I                     | 80       | 0.9344351 |          |     |          |           |          |           |          |           |          |           |
| 4,4'-DDE                         | 160      | 0.9196699 |          |     |          |           |          |           |          |           |          |           |
| Dieldrin                         | 160      | 0.9953457 |          |     |          |           |          |           |          |           |          |           |
| Endrin                           | 160      | 0.903669  |          |     |          |           |          |           |          |           |          |           |
| Endosulfan II                    | 160      | 0.8694106 |          |     |          |           |          |           |          |           |          |           |
| 4,4'-DDD                         | 160      | 0.8394108 |          |     |          |           |          |           |          |           |          |           |
| Endrin Aldehyde                  | 160      | 0.6754471 |          |     |          |           |          |           |          |           |          |           |
| 4,4'-DDT                         | 160      | 0.8666848 |          |     |          |           |          |           |          |           |          |           |
| Endosulfan Sulfate               | 160      | 0.808554  |          |     |          |           |          |           |          |           |          |           |
| Endrin Ketone                    | 160      | 0.9150773 |          |     |          |           |          |           |          |           |          |           |
| Methoxychlor                     | 800      | 0.3710888 |          |     |          |           |          |           |          |           |          |           |
| Hexachlorobutadiene              | 80       | 1.368623  |          |     |          |           |          |           |          |           |          |           |
| Hexachlorobenzene                | 80       | 1.259233  |          |     |          |           |          |           |          |           |          |           |
| 2,4'-DDE                         |          |           |          |     | 5        | 0.8703192 | 10       | 0.8471901 | 20       | 0.8231684 | 40       | 0.7887622 |
| 2,4'-DDD                         |          |           |          |     | 5        | 0.761682  | 10       | 0.7418629 | 20       | 0.7301989 | 40       | 0.7053717 |
| 2,4'-DDT                         |          |           |          |     | 5        | 0.8194572 | 10       | 0.8004965 | 20       | 0.7842725 | 40       | 0.7616258 |
| Oxychlordane                     |          |           |          |     | 5        | 1.016746  | 10       | 1.011016  | 20       | 0.9890796 | 40       | 0.9530961 |
| cis-Nonachlor                    |          |           |          |     | 5        | 1.323191  | 10       | 1.277938  | 20       | 1.243982  | 40       | 1.217703  |



**INITIAL CALIBRATION DATA**  
**EPA 8081B**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | FL00041                   | Instrument: | ECD6            |
| Calibration Date: | 12/14/2022                | Column (1): | STX-CLP         |

| Compound              | Level 07 |           | Level 08 |     | Level 09 |           | Level 10 |           | Level 11 |           | Level 12 |           |
|-----------------------|----------|-----------|----------|-----|----------|-----------|----------|-----------|----------|-----------|----------|-----------|
|                       | Conc     | RRF       | Conc     | RRF | Conc     | RRF       | Conc     | RRF       | Conc     | RRF       | Conc     | RRF       |
| trans-Nonachlor       |          |           |          |     | 5        | 1.347777  | 10       | 1.328677  | 20       | 1.28535   | 40       | 1.249062  |
| Mirex                 |          |           |          |     | 5        | 0.8317764 | 10       | 0.8043457 | 20       | 0.7641487 | 40       | 0.7481553 |
| Decachlorobiphenyl    | 160      | 0.7008722 |          |     |          |           |          |           |          |           |          |           |
| Tetrachlorometaxylene | 160      | 0.9437243 |          |     |          |           |          |           |          |           |          |           |





### INITIAL CALIBRATION DATA EPA 8081B

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | FL00041                   | Instrument: | ECD6            |
| Calibration Date: | 12/14/2022                | Column (1): | STX-CLP         |

| Compound | Level 19 |  | Level 20 |  | Level 21 |  | Level 22 |  | Level 23 |  | Level 24 |  |
|----------|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|
|          | Conc     |  | Conc     |  | Conc     |  | Conc     |  | Conc     |  | Conc     |  |
|          |          |  |          |  |          |  |          |  |          |  |          |  |



**INITIAL CALIBRATION DATA**  
**EPA 8081B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: FL00041

Instrument: ECD6

Calibration Date: 12/14/2022

Column (1): STX-CLP

| Compound | Level 25 |  | Level 26 |  | Level 27 |  | Level 28 |  | Level 29 |  | Level 30 |  |
|----------|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|
|          | Conc     |  | Conc     |  | Conc     |  | Conc     |  | Conc     |  | Conc     |  |
|          |          |  |          |  |          |  |          |  |          |  |          |  |



**INITIAL CALIBRATION DATA**  
**EPA 8081B**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | FL00041                   | Instrument: | ECD6            |
| Calibration Date: | 12/14/2022                | Column (1): | STX-CLP         |

| COMPOUND                         | Mean RRF  | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|----------------------------------|-----------|---------|------------|----------|--------------------|---|
| alpha-BHC                        | 1.540148  | 3.1     |            |          | RSD (20)           |   |
| beta-BHC                         | 0.5929524 | 6.8     |            |          | RSD (20)           |   |
| gamma-BHC (Lindane)              | 1.33534   | 3.5     |            |          | RSD (20)           |   |
| delta-BHC                        | 1.258744  | 2.5     |            |          | RSD (20)           |   |
| Heptachlor                       | 1.188151  | 6.1     |            |          | RSD (20)           |   |
| Aldrin                           | 1.331535  | 5.2     |            |          | RSD (20)           |   |
| Heptachlor Epoxide               | 1.15453   | 6.9     |            |          | RSD (20)           |   |
| trans-Chlordane (beta-Chlordane) | 1.172613  | 6.3     |            |          | RSD (20)           |   |
| cis-Chlordane (alpha-chlordane)  | 1.176038  | 8.0     |            |          | RSD (20)           |   |
| Endosulfan I                     | 1.059517  | 7.1     |            |          | RSD (20)           |   |
| 4,4'-DDE                         | 1.056843  | 7.9     |            |          | RSD (20)           |   |
| Dieldrin                         | 1.138281  | 7.6     |            |          | RSD (20)           |   |
| Endrin                           | 1.048819  | 9.0     |            |          | RSD (20)           |   |
| Endosulfan II                    | 0.944155  | 5.2     |            |          | RSD (20)           |   |
| 4,4'-DDD                         | 0.9449058 | 6.9     |            |          | RSD (20)           |   |
| Endrin Aldehyde                  | 0.7530726 | 6.7     |            |          | RSD (20)           |   |
| 4,4'-DDT                         | 0.9548168 | 5.7     |            |          | RSD (20)           |   |
| Endosulfan Sulfate               | 0.8965158 | 6.2     |            |          | RSD (20)           |   |
| Endrin Ketone                    | 1.027011  | 7.7     |            |          | RSD (20)           |   |
| Methoxychlor                     | 0.4231113 | 10.6    |            |          | RSD (20)           |   |
| Hexachlorobutadiene              | 1.613515  | 13.2    |            |          | RSD (20)           |   |
| Hexachlorobenzene                | 1.429894  | 8.1     |            |          | RSD (20)           |   |
| 2,4'-DDE                         | 0.7852778 | 10.3    |            |          | RSD (20)           |   |
| 2,4'-DDD                         | 0.698595  | 8.8     |            |          | RSD (20)           |   |
| 2,4'-DDT                         | 0.7548286 | 8.4     |            |          | RSD (20)           |   |
| Oxychlordane                     | 0.951144  | 7.5     |            |          | RSD (20)           |   |
| cis-Nonachlor                    | 1.211391  | 7.8     |            |          | RSD (20)           |   |
| trans-Nonachlor                  | 1.244025  | 8.1     |            |          | RSD (20)           |   |
| Mirex                            | 0.7535613 | 8.1     |            |          | RSD (20)           |   |
| Decachlorobiphenyl               | 0.8105886 | 11.4    |            |          | RSD (20)           |   |
| Tetrachlorometaxylene            | 1.087951  | 9.2     |            |          | RSD (20)           |   |





**INITIAL CALIBRATION DATA**  
**EPA 8081B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: FL00041

Instrument: ECD6

Calibration Date: 12/14/2022

Column (2): STX-CLPII

| Compound                                 | Level 01 |     | Level 02 |           | Level 03 |           | Level 04 |           | Level 05 |           | Level 06 |           |
|--|----------|-----|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|
|  | Conc     | RRF | Conc     | RRF       | Conc     | RRF       | Conc     | RRF       | Conc     | RRF       | Conc     | RRF       |
| alpha-BHC [2C]                           |          |     | 2.5      | 1.582358  | 5        | 1.586238  | 10       | 1.633164  | 20       | 1.640486  | 40       | 1.615441  |
| beta-BHC [2C]                            |          |     | 2.5      | 0.652782  | 5        | 0.6172948 | 10       | 0.6184608 | 20       | 0.6125812 | 40       | 0.5918008 |
| gamma-BHC (Lindane) [2C]                 |          |     | 2.5      | 1.355071  | 5        | 1.348783  | 10       | 1.381456  | 20       | 1.392772  | 40       | 1.366606  |
| delta-BHC [2C]                           |          |     | 2.5      | 1.323764  | 5        | 1.307234  | 10       | 1.339425  | 20       | 1.328433  | 40       | 1.331977  |
| Heptachlor [2C]                          |          |     | 2.5      | 1.270249  | 5        | 1.234236  | 10       | 1.258409  | 20       | 1.272245  | 40       | 1.215755  |
| Aldrin [2C]                              |          |     | 2.5      | 1.511397  | 5        | 1.416724  | 10       | 1.432636  | 20       | 1.430376  | 40       | 1.370917  |
| Heptachlor Epoxide [2C]                  |          |     | 2.5      | 1.2977    | 5        | 1.174596  | 10       | 1.174288  | 20       | 1.174706  | 40       | 1.114434  |
| trans-Chlordane<br>(beta-Chlordane) [2C] |          |     | 2.5      | 1.25449   | 5        | 1.176102  | 10       | 1.164843  | 20       | 1.168848  | 40       | 1.125534  |
| cis-Chlordane<br>(alpha-chlordane) [2C]  |          |     | 2.5      | 1.258498  | 5        | 1.153199  | 10       | 1.135052  | 20       | 1.136251  | 40       | 1.089792  |
| Endosulfan I [2C]                        |          |     | 2.5      | 1.118263  | 5        | 1.044155  | 10       | 1.035412  | 20       | 1.034697  | 40       | 0.9885012 |
| 4,4'-DDE [2C]                            |          |     | 5        | 1.120237  | 10       | 1.069625  | 20       | 1.064387  | 40       | 1.055415  | 80       | 0.9897135 |
| Dieldrin [2C]                            |          |     | 5        | 1.270008  | 10       | 1.162844  | 20       | 1.139359  | 40       | 1.136098  | 80       | 1.071389  |
| Endrin [2C]                              |          |     | 5        | 1.256912  | 10       | 1.17909   | 20       | 1.159477  | 40       | 1.149599  | 80       | 1.066056  |
| Endosulfan II [2C]                       |          |     | 5        | 1.296819  | 10       | 1.202961  | 20       | 1.188491  | 40       | 1.160501  | 80       | 1.099056  |
| 4,4'-DDD [2C]                            |          |     | 5        | 1.234482  | 10       | 1.121556  | 20       | 1.117792  | 40       | 1.112003  | 80       | 1.04628   |
| Endrin Aldehyde [2C]                     |          |     | 5        | 0.9430111 | 10       | 0.8430348 | 20       | 0.8249196 | 40       | 0.8129946 | 80       | 0.7727701 |
| 4,4'-DDT [2C]                            |          |     | 5        | 1.175911  | 10       | 1.077825  | 20       | 1.067612  | 40       | 1.073272  | 80       | 1.019364  |
| Endosulfan Sulfate [2C]                  |          |     | 5        | 1.137768  | 10       | 1.042553  | 20       | 1.030373  | 40       | 1.023023  | 80       | 0.9721732 |
| Endrin Ketone [2C]                       |          |     | 5        | 1.235631  | 10       | 1.119988  | 20       | 1.114405  | 40       | 1.100852  | 80       | 1.047659  |
| Methoxychlor [2C]                        |          |     | 25       | 0.5184064 | 50       | 0.4866753 | 100      | 0.4751666 | 200      | 0.4681736 | 400      | 0.4433957 |
| Hexachlorobutadiene [2C]                 |          |     | 2.5      | 1.975612  | 5        | 1.648845  | 10       | 1.492482  | 20       | 1.376096  | 40       | 1.341211  |
| Hexachlorobenzene [2C]                   |          |     | 2.5      | 1.602215  | 5        | 1.520618  | 10       | 1.491402  | 20       | 1.450251  | 40       | 1.385947  |
| Decachlorobiphenyl [2C]                  |          |     | 5        | 1.087142  | 10       | 0.9391597 | 20       | 0.8562421 | 40       | 0.8499592 | 80       | 0.8013928 |
| Tetrachlorometaxylene [2C]               |          |     | 5        | 1.220863  | 10       | 1.179368  | 20       | 1.164832  | 40       | 1.127982  | 80       | 1.06878   |



**INITIAL CALIBRATION DATA**  
**EPA 8081B**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | FL00041                   | Instrument: | ECD6            |
| Calibration Date: | 12/14/2022                | Column (2): | STX-CLPII       |

| Compound                                 | Level 07 |           | Level 08 |     | Level 09 |           | Level 10 |           | Level 11 |           | Level 12 |           |
|--|----------|-----------|----------|-----|----------|-----------|----------|-----------|----------|-----------|----------|-----------|
|  | Conc     | RRF       | Conc     | RRF | Conc     | RRF       | Conc     | RRF       | Conc     | RRF       | Conc     | RRF       |
| alpha-BHC [2C]                           | 80       | 1.561903  |          |     |          |           |          |           |          |           |          |           |
| beta-BHC [2C]                            | 80       | 0.5642956 |          |     |          |           |          |           |          |           |          |           |
| gamma-BHC (Lindane) [2C]                 | 80       | 1.31891   |          |     |          |           |          |           |          |           |          |           |
| delta-BHC [2C]                           | 80       | 1.29291   |          |     |          |           |          |           |          |           |          |           |
| Heptachlor [2C]                          | 80       | 1.144118  |          |     |          |           |          |           |          |           |          |           |
| Aldrin [2C]                              | 80       | 1.281263  |          |     |          |           |          |           |          |           |          |           |
| Heptachlor Epoxide [2C]                  | 80       | 1.046144  |          |     |          |           |          |           |          |           |          |           |
| trans-Chlordane<br>(beta-Chlordane) [2C] | 80       | 1.072685  |          |     |          |           |          |           |          |           |          |           |
| cis-Chlordane<br>(alpha-chlordane) [2C]  | 80       | 1.03859   |          |     |          |           |          |           |          |           |          |           |
| Endosulfan I [2C]                        | 80       | 0.9325836 |          |     |          |           |          |           |          |           |          |           |
| 4,4'-DDE [2C]                            | 160      | 0.9356313 |          |     |          |           |          |           |          |           |          |           |
| Dieldrin [2C]                            | 160      | 1.019365  |          |     |          |           |          |           |          |           |          |           |
| Endrin [2C]                              | 160      | 1.013782  |          |     |          |           |          |           |          |           |          |           |
| Endosulfan II [2C]                       | 160      | 1.047801  |          |     |          |           |          |           |          |           |          |           |
| 4,4'-DDD [2C]                            | 160      | 1.006382  |          |     |          |           |          |           |          |           |          |           |
| Endrin Aldehyde [2C]                     | 160      | 0.7380269 |          |     |          |           |          |           |          |           |          |           |
| 4,4'-DDT [2C]                            | 160      | 0.9933936 |          |     |          |           |          |           |          |           |          |           |
| Endosulfan Sulfate [2C]                  | 160      | 0.9372514 |          |     |          |           |          |           |          |           |          |           |
| Endrin Ketone [2C]                       | 160      | 1.016567  |          |     |          |           |          |           |          |           |          |           |
| Methoxychlor [2C]                        | 800      | 0.4436418 |          |     |          |           |          |           |          |           |          |           |
| Hexachlorobutadiene [2C]                 | 80       | 1.300813  |          |     |          |           |          |           |          |           |          |           |
| Hexachlorobenzene [2C]                   | 80       | 1.304223  |          |     |          |           |          |           |          |           |          |           |
| 2,4'-DDE [2C]                            |          |           |          |     | 5        | 0.8343307 | 10       | 0.8052418 | 20       | 0.7431295 | 40       | 0.7258871 |
| 2,4'-DDD [2C]                            |          |           |          |     | 5        | 0.9097548 | 10       | 0.8797099 | 20       | 0.8273813 | 40       | 0.8164191 |
| 2,4'-DDT [2C]                            |          |           |          |     | 5        | 0.9400077 | 10       | 0.8804604 | 20       | 0.8502582 | 40       | 0.8485216 |
| Oxychlordane [2C]                        |          |           |          |     | 5        | 0.9644685 | 10       | 0.9467754 | 20       | 0.9033255 | 40       | 0.8966281 |
| cis-Nonachlor [2C]                       |          |           |          |     | 5        | 1.449238  | 10       | 1.407074  | 20       | 1.376474  | 40       | 1.372123  |



### INITIAL CALIBRATION DATA

#### EPA 8081B

Laboratory: Analytical Resources, LLC                      SDG: 23A0179  
Client: Anchor QEA, LLC                                        Project: AOC5 MR Phase 1  
Calibration: FL00041     Instrument: ECD6  
Calibration Date: 12/14/2022                               Column (2): STX-CLPII

| Compound                   | Level 07 |           | Level 08 |     | Level 09 |           | Level 10 |           | Level 11 |           | Level 12 |          |
|----------------------------|----------|-----------|----------|-----|----------|-----------|----------|-----------|----------|-----------|----------|----------|
|                            | Conc     | RRF       | Conc     | RRF | Conc     | RRF       | Conc     | RRF       | Conc     | RRF       | Conc     | RRF      |
| trans-Nonachlor [2C]       |          |           |          |     | 5        | 1.488853  | 10       | 1.51762   | 20       | 1.451789  | 40       | 1.447663 |
| Mirex [2C]                 |          |           |          |     | 5        | 0.9331395 | 10       | 0.8115521 | 20       | 0.7946205 | 40       | 0.762682 |
| Decachlorobiphenyl [2C]    | 160      | 0.7711875 |          |     |          |           |          |           |          |           |          |          |
| Tetrachlorometaxylene [2C] | 160      | 0.9948184 |          |     |          |           |          |           |          |           |          |          |



**INITIAL CALIBRATION DATA**  
**EPA 8081B**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | FL00041                   | Instrument: | ECD6            |
| Calibration Date: | 12/14/2022                | Column (2): | STX-CLPII       |

| Compound             | Level 13 |           | Level 14 |           | Level 15 |     | Level 16 |     | Level 17 |     | Level 18 |     |
|----------------------|----------|-----------|----------|-----------|----------|-----|----------|-----|----------|-----|----------|-----|
|                      | Conc     | RRF       | Conc     | RRF       | Conc     | RRF | Conc     | RRF | Conc     | RRF | Conc     | RRF |
| 2,4'-DDE [2C]        | 80       | 0.6667087 | 160      | 0.6020159 |          |     |          |     |          |     |          |     |
| 2,4'-DDD [2C]        | 80       | 0.76623   | 160      | 0.7136982 |          |     |          |     |          |     |          |     |
| 2,4'-DDT [2C]        | 80       | 0.7977257 | 160      | 0.7424898 |          |     |          |     |          |     |          |     |
| Oxychlorane [2C]     | 80       | 0.8433342 | 160      | 0.7909247 |          |     |          |     |          |     |          |     |
| cis-Nonachlor [2C]   | 80       | 1.313286  | 160      | 1.248174  |          |     |          |     |          |     |          |     |
| trans-Nonachlor [2C] | 80       | 1.376815  | 160      | 1.306683  |          |     |          |     |          |     |          |     |
| Mirex [2C]           | 80       | 0.7399752 | 160      | 0.7075065 |          |     |          |     |          |     |          |     |



**INITIAL CALIBRATION DATA  
EPA 8081B**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | FL00041                   | Instrument: | ECD6            |
| Calibration Date: | 12/14/2022                | Column (2): | STX-CLPII       |

| Compound | Level 19 |  | Level 20 |  | Level 21 |  | Level 22 |  | Level 23 |  | Level 24 |  |
|----------|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|
|          | Conc     |  | Conc     |  | Conc     |  | Conc     |  | Conc     |  | Conc     |  |
|          |          |  |          |  |          |  |          |  |          |  |          |  |



Analytical Resources, LLC  
Analytical Chemists and Consultants

**INITIAL CALIBRATION DATA**  
**EPA 8081B**

Laboratory:           Analytical Resources, LLC                                 SDG:                     23A0179  
Client:                Anchor QEA, LLC    Project:                 AOC5 MR Phase 1  
Calibration:          FL00041   Instrument:            ECD6  
Calibration Date:    12/14/2022                                  Column (2):          STX-CLPII

| Compound | Level 25 |  | Level 26 |  | Level 27 |  | Level 28 |  | Level 29 |  | Level 30 |  |
|----------|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|
|          | Conc     |  | Conc     |  | Conc     |  | Conc     |  | Conc     |  | Conc     |  |
|          |          |  |          |  |          |  |          |  |          |  |          |  |



INITIAL CALIBRATION DATA  
EPA 8081B

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | FL00041                   | Instrument: | ECD6            |
| Calibration Date: | 12/14/2022                | Column (2): | STX-CLPII       |

| COMPOUND                              | Mean RRF  | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|---------------------------------------|-----------|---------|------------|----------|--------------------|---|
| alpha-BHC [2C]                        | 1.603265  | 1.9     |            |          | RSD (20)           |   |
| beta-BHC [2C]                         | 0.6095359 | 4.9     |            |          | RSD (20)           |   |
| gamma-BHC (Lindane) [2C]              | 1.3606    | 1.9     |            |          | RSD (20)           |   |
| delta-BHC [2C]                        | 1.320624  | 1.3     |            |          | RSD (20)           |   |
| Heptachlor [2C]                       | 1.232502  | 3.9     |            |          | RSD (20)           |   |
| Aldrin [2C]                           | 1.407219  | 5.4     |            |          | RSD (20)           |   |
| Heptachlor Epoxide [2C]               | 1.163645  | 7.1     |            |          | RSD (20)           |   |
| trans-Chlordane (beta-Chlordane) [2C] | 1.160417  | 5.2     |            |          | RSD (20)           |   |
| cis-Chlordane (alpha-chlordane) [2C]  | 1.13523   | 6.5     |            |          | RSD (20)           |   |
| Endosulfan I [2C]                     | 1.025602  | 6.0     |            |          | RSD (20)           |   |
| 4,4'-DDE [2C]                         | 1.039168  | 6.3     |            |          | RSD (20)           |   |
| Dieldrin [2C]                         | 1.133177  | 7.5     |            |          | RSD (20)           |   |
| Endrin [2C]                           | 1.137486  | 7.6     |            |          | RSD (20)           |   |
| Endosulfan II [2C]                    | 1.165938  | 7.4     |            |          | RSD (20)           |   |
| 4,4'-DDD [2C]                         | 1.106416  | 7.0     |            |          | RSD (20)           |   |
| Endrin Aldehyde [2C]                  | 0.8224595 | 8.5     |            |          | RSD (20)           |   |
| 4,4'-DDT [2C]                         | 1.067896  | 5.9     |            |          | RSD (20)           |   |
| Endosulfan Sulfate [2C]               | 1.023857  | 6.7     |            |          | RSD (20)           |   |
| Endrin Ketone [2C]                    | 1.10585   | 6.8     |            |          | RSD (20)           |   |
| Methoxychlor [2C]                     | 0.4725766 | 6.0     |            |          | RSD (20)           |   |
| Hexachlorobutadiene [2C]              | 1.52251   | 16.8    |            |          | RSD (20)           |   |
| Hexachlorobenzene [2C]                | 1.459109  | 7.2     |            |          | RSD (20)           |   |
| 2,4'-DDE [2C]                         | 0.7295523 | 11.8    |            |          | RSD (20)           |   |
| 2,4'-DDD [2C]                         | 0.8188656 | 8.8     |            |          | RSD (20)           |   |
| 2,4'-DDT [2C]                         | 0.8432439 | 8.1     |            |          | RSD (20)           |   |
| Oxychlordane [2C]                     | 0.8909094 | 7.3     |            |          | RSD (20)           |   |
| cis-Nonachlor [2C]                    | 1.361061  | 5.2     |            |          | RSD (20)           |   |
| trans-Nonachlor [2C]                  | 1.43157   | 5.4     |            |          | RSD (20)           |   |
| Mirex [2C]                            | 0.7915793 | 9.9     |            |          | RSD (20)           |   |
| Decachlorobiphenyl [2C]               | 0.8841805 | 13.0    |            |          | RSD (20)           |   |
| Tetrachlorometaxylene [2C]            | 1.126107  | 7.3     |            |          | RSD (20)           |   |



ANALYSIS SEQUENCE

SKL0233

Instrument: ECD6  
Calibration ID: FL00041

Element Column ID:

| Lab Number   | Sample Name | Analysis | Container | Order | STD ID  | ISTD ID | Analyzed | Comments |
|--------------|-------------|----------|-----------|-------|---------|---------|----------|----------|
| SKL0233-PEM1 | DS1         | QC       |           | 1     | K007286 | K006953 |          |          |
| SKL0233-CAL1 | INDAA       | QC       |           | 2     | K011594 | K006953 |          |          |
| SKL0233-CAL2 | INDAB       | QC       |           | 3     | K011593 | K006953 |          |          |
| SKL0233-CAL3 | INDAC       | QC       |           | 4     | K011592 | K006953 |          |          |
| SKL0233-CAL4 | INDAD       | QC       |           | 5     | K011591 | K006953 |          |          |
| SKL0233-CAL5 | INDAE       | QC       |           | 6     | K011590 | K006953 |          |          |
| SKL0233-CAL6 | INDAF       | QC       |           | 7     | K011589 | K006953 |          |          |
| SKL0233-CAL7 | INDAG       | QC       |           | 8     | K011463 | K006953 |          |          |
| SKL0233-CAL8 | WNDA        | QC       |           | 9     | K011595 | K006953 |          |          |
| SKL0233-CAL9 | WNDB        | QC       |           | 10    | K007148 | K006953 |          |          |
| SKL0233-CALA | WNDC        | QC       |           | 11    | K007147 | K006953 |          |          |
| SKL0233-CALB | WNDD        | QC       |           | 12    | K007146 | K006953 |          |          |
| SKL0233-CALC | WNDE        | QC       |           | 13    | K007145 | K006953 |          |          |
| SKL0233-CALD | WPDF        | QC       |           | 14    | K007144 | K006953 |          |          |
| SKL0233-CALE | WNDG        | QC       |           | 15    | K007093 | K006953 |          |          |
| SKL0233-CALM | NOS1        | QC       |           | 16    | K007375 | K006953 |          |          |
| SKL0233-CALN | NOS2        | QC       |           | 17    | K007374 | K006953 |          |          |
| SKL0233-CALO | NOS3        | QC       |           | 18    | K007373 | K006953 |          |          |
| SKL0233-CALP | NOS4        | QC       |           | 19    | K007372 | K006953 |          |          |
| SKL0233-CALQ | NOS5        | QC       |           | 20    | K007371 | K006953 |          |          |
| SKL0233-CALR | NOS6        | QC       |           | 21    | K007370 | K006953 |          |          |
| SKL0233-CALS | NOS7        | QC       |           | 22    | K007287 | K006953 |          |          |





ANALYSIS SEQUENCE

SKL0233

Instrument: ECD6  
Calibration ID: FL00041

Element Column ID:

| Lab Number   | Sample Name | Analysis | Container | Order | STD ID  | ISTD ID | Analyzed | Comments |
|--------------|-------------|----------|-----------|-------|---------|---------|----------|----------|
| SKL0233-CALF | TOXAPH1     | QC       |           | 23    | K011601 | K006953 |          |          |
| SKL0233-CALG | TOXAPH2     | QC       |           | 24    | K011600 | K006953 |          |          |
| SKL0233-CALH | TOXAPH3     | QC       |           | 25    | K011599 | K006953 |          |          |
| SKL0233-CALI | TOXAPH4     | QC       |           | 26    | K011598 | K006953 |          |          |
| SKL0233-CALJ | TOXAPH5     | QC       |           | 27    | K011597 | K006953 |          |          |
| SKL0233-CALK | TOXAPH6     | QC       |           | 28    | K011596 | K006953 |          |          |
| SKL0233-CALL | TOXAPH7     | QC       |           | 29    | K008546 | K006953 |          |          |

## GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

|    | Inject      | Date/Time | Filename   | DF | LabID        | ClientID |
|----|-------------|-----------|------------|----|--------------|----------|
| 1  | 14-DEC-2022 | 19:27     | 22121401.D | 1  | RINSE        |          |
| 2  | 14-DEC-2022 | 19:44     | 22121402.D | 1  | RINSE        |          |
| 3  | 14-DEC-2022 | 20:02     | 22121403.D | 1  | SEQ-IBL1     |          |
| 4  | 14-DEC-2022 | 20:20     | 22121404.D | 1  | SEQ-PEM1     |          |
| 5  | 14-DEC-2022 | 20:38     | 22121405.D | 1  | SEQ-CAL1     |          |
| 6  | 14-DEC-2022 | 20:56     | 22121406.D | 1  | SEQ-CAL2     |          |
| 7  | 14-DEC-2022 | 21:14     | 22121407.D | 1  | SEQ-CAL3     |          |
| 8  | 14-DEC-2022 | 21:31     | 22121408.D | 1  | SEQ-CAL4     |          |
| 9  | 14-DEC-2022 | 21:49     | 22121409.D | 1  | SEQ-CAL5     |          |
| 10 | 14-DEC-2022 | 22:07     | 22121410.D | 1  | SEQ-CAL6     |          |
| 11 | 14-DEC-2022 | 22:25     | 22121411.D | 1  | SEQ-CAL7     |          |
| 12 | 14-DEC-2022 | 22:43     | 22121412.D | 1  | SEQ-CAL8     |          |
| 13 | 14-DEC-2022 | 23:01     | 22121413.D | 1  | SEQ-CAL9     |          |
| 14 | 14-DEC-2022 | 23:19     | 22121414.D | 1  | SEQ-CALA     |          |
| 15 | 14-DEC-2022 | 23:36     | 22121415.D | 1  | SEQ-CALB     |          |
| 16 | 14-DEC-2022 | 23:54     | 22121416.D | 1  | SEQ-CALC     |          |
| 17 | 15-DEC-2022 | 00:12     | 22121417.D | 1  | SEQ-CALD     |          |
| 18 | 15-DEC-2022 | 00:30     | 22121418.D | 1  | SEQ-CALE     |          |
| 19 | 15-DEC-2022 | 00:48     | 22121419.D | 1  | SEQ-SCV1     |          |
| 20 | 15-DEC-2022 | 01:06     | 22121420.D | 1  | SEQ-SCV2     |          |
| 21 | 15-DEC-2022 | 01:24     | 22121421.D | 1  | SEQ-CAL1A    |          |
| 22 | 15-DEC-2022 | 01:42     | 22121422.D | 1  | SEQ-CAL2A    |          |
| 23 | 15-DEC-2022 | 01:59     | 22121423.D | 1  | SEQ-CAL3A    |          |
| 24 | 15-DEC-2022 | 02:17     | 22121424.D | 1  | SEQ-CAL4A    |          |
| 25 | 15-DEC-2022 | 02:35     | 22121425.D | 1  | SEQ-CAL5A    |          |
| 26 | 15-DEC-2022 | 02:53     | 22121426.D | 1  | SEQ-CAL6A    |          |
| 27 | 15-DEC-2022 | 03:11     | 22121427.D | 1  | SEQ-CAL7A    |          |
| 28 | 15-DEC-2022 | 03:29     | 22121428.D | 1  | SEQ-CAL8A    |          |
| 29 | 15-DEC-2022 | 03:46     | 22121429.D | 1  | SEQ-CAL9A    |          |
| 30 | 15-DEC-2022 | 04:04     | 22121430.D | 1  | SEQ-CALAA    |          |
| 31 | 15-DEC-2022 | 04:22     | 22121431.D | 1  | SEQ-CALAB    |          |
| 32 | 15-DEC-2022 | 04:40     | 22121432.D | 1  | SEQ-CALAC    |          |
| 33 | 15-DEC-2022 | 04:58     | 22121433.D | 1  | SEQ-CALAD    |          |
| 34 | 15-DEC-2022 | 05:16     | 22121434.D | 1  | SEQ-CALAE    |          |
| 35 | 15-DEC-2022 | 05:33     | 22121435.D | 1  | SEQ-PEM2     |          |
| 36 | 15-DEC-2022 | 05:51     | 22121436.D | 1  | SEQ-ICV1     |          |
| 37 | 15-DEC-2022 | 06:09     | 22121437.D | 1  | SEQ-ICV2     |          |
| 38 | 15-DEC-2022 | 06:27     | 22121438.D | 1  | SEQ-ICV3     |          |
| 39 | 15-DEC-2022 | 06:45     | 22121439.D | 1  | SEQ-ICV4     |          |
| 40 | 15-DEC-2022 | 07:03     | 22121440.D | 1  | BKK0688-BLK1 |          |
| 41 | 15-DEC-2022 | 07:21     | 22121441.D | 1  | BKK0688-BS1  |          |
| 42 | 15-DEC-2022 | 07:39     | 22121442.D | 1  | BKK0688-BS2  |          |
| 43 | 15-DEC-2022 | 07:57     | 22121443.D | 1  | BKK0688-BS3  |          |
| 44 | 15-DEC-2022 | 08:15     | 22121444.D | 1  | BKK0688-BSD1 |          |
| 45 | 15-DEC-2022 | 08:32     | 22121445.D | 1  | BKK0142-BLK1 |          |
| 46 | 15-DEC-2022 | 08:50     | 22121446.D | 1  | BKK0142-BS1  |          |
| 47 | 15-DEC-2022 | 09:08     | 22121447.D | 1  | BKK0142-BS2  |          |
| 48 | 15-DEC-2022 | 09:26     | 22121448.D | 1  | BKK0142-BSD1 |          |
| 49 | 15-DEC-2022 | 09:44     | 22121449.D | 1  | BKK0142-MS1  |          |
| 50 | 15-DEC-2022 | 10:02     | 22121450.D | 1  | BKK0142-MSD1 |          |

|    | Inject Date/Time  | Filename   | DF | LabID         | ClientID |
|----|-------------------|------------|----|---------------|----------|
| 51 | 15-DEC-2022 10:20 | 22121451.D | 1  | 22J0513-01    |          |
| 52 | 15-DEC-2022 10:38 | 22121452.D | 1  | 22J0513-04    |          |
| 53 | 15-DEC-2022 10:55 | 22121453.D | 1  | 22J0535-01    |          |
| 54 | 15-DEC-2022 11:13 | 22121454.D | 1  | 22K0429-01    |          |
| 55 | 15-DEC-2022 11:31 | 22121455.D | 1  | 22K0429-02    |          |
| 56 | 15-DEC-2022 11:49 | 22121456.D | 1  | 22K0429-03    |          |
| 57 | 15-DEC-2022 12:07 | 22121457.D | 1  | SEQ-PEM3      |          |
| 58 | 15-DEC-2022 12:25 | 22121458.D | 1  | SEQ-CCV1      |          |
| 59 | 15-DEC-2022 12:43 | 22121459.D | 1  | SEQ-CCV2      |          |
| 60 | 15-DEC-2022 13:01 | 22121460.D | 1  | SEQ-CCV3      |          |
| 61 | 15-DEC-2022 13:19 | 22121461.D | 1  | SEQ-CCV4      |          |
| 62 | 15-DEC-2022 13:36 | 22121462.D | 1  | BKK0380-BLK1  |          |
| 63 | 15-DEC-2022 13:54 | 22121463.D | 1  | BKK0380-BS1   |          |
| 64 | 15-DEC-2022 14:12 | 22121464.D | 1  | BKK0380-BSD1  |          |
| 65 | 15-DEC-2022 14:30 | 22121465.D | 1  | 22K0157-01    |          |
| 66 | 15-DEC-2022 14:48 | 22121466.D | 1  | 22K0230-01    |          |
| 67 | 15-DEC-2022 15:06 | 22121467.D | 1  | 22K0231-01    |          |
| 68 | 15-DEC-2022 15:24 | 22121468.D | 1  | BKK0382-BLK1  |          |
| 69 | 15-DEC-2022 15:42 | 22121469.D | 1  | BKK0382-BS1   |          |
| 70 | 15-DEC-2022 16:00 | 22121470.D | 1  | BKK0382-BS2   |          |
| 71 | 15-DEC-2022 16:18 | 22121471.D | 1  | BKK0382-BSD1  |          |
| 72 | 15-DEC-2022 16:35 | 22121472.D | 1  | 22K0075-01    |          |
| 73 | 15-DEC-2022 16:53 | 22121473.D | 1  | SEQ-PEM4      |          |
| 74 | 15-DEC-2022 17:11 | 22121474.D | 1  | SEQ-CCV5      |          |
| 75 | 15-DEC-2022 17:29 | 22121475.D | 1  | SEQ-CCV6      |          |
| 76 | 15-DEC-2022 17:47 | 22121476.D | 1  | SEQ-CCV7      |          |
| 77 | 15-DEC-2022 18:05 | 22121477.D | 1  | SEQ-CCV8      |          |
| 78 | 15-DEC-2022 18:23 | 22121478.D | 1  | BKK0537-BLK1  |          |
| 79 | 15-DEC-2022 18:40 | 22121479.D | 1  | BKK0537-BS1   |          |
| 80 | 15-DEC-2022 18:58 | 22121480.D | 1  | BKK0537-BS2   |          |
| 81 | 15-DEC-2022 19:16 | 22121481.D | 1  | 22K0194-01    |          |
| 82 | 15-DEC-2022 19:34 | 22121482.D | 1  | 22K0194-01RE1 | 10       |
| 83 | 15-DEC-2022 19:52 | 22121483.D | 1  | SEQ-PEM5      |          |
| 84 | 15-DEC-2022 20:09 | 22121484.D | 1  | SEQ-CCV9      |          |
| 85 | 15-DEC-2022 20:27 | 22121485.D | 1  | SEQ-CCVA      |          |
| 86 | 15-DEC-2022 20:45 | 22121486.D | 1  | SEQ-CCVB      |          |
| 87 | 15-DEC-2022 21:03 | 22121487.D | 1  | SEQ-CCVC      |          |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

ARI Job No.: RINS Method: PEST.m Instrument: ecd6.i Date: 14-DEC-2022

| Time | Filename   | LabID    | ClientId | DF | Manually Integrated Compounds |
|------|------------|----------|----------|----|-------------------------------|
| 1927 | 22121401.D | RINSE    |          | 1  | NO MANUAL INTEGRATION         |
| 1944 | 22121402.D | RINSE    |          | 1  | NO MANUAL INTEGRATION         |
| 2002 | 22121403.D | SEQ-IBL1 |          | 1  | NO MANUAL INTEGRATION         |
| 2020 | 22121404.D | SEQ-PEM1 |          | 1  | NO MANUAL INTEGRATION         |
| 2038 | 22121405.D | SEQ-CAL1 |          | 1  | NO MANUAL INTEGRATION         |
| 2056 | 22121406.D | SEQ-CAL2 |          | 1  | NO MANUAL INTEGRATION         |
| 2114 | 22121407.D | SEQ-CAL3 |          | 1  | NO MANUAL INTEGRATION         |
| 2131 | 22121408.D | SEQ-CAL4 |          | 1  | NO MANUAL INTEGRATION         |
| 2149 | 22121409.D | SEQ-CAL5 |          | 1  | NO MANUAL INTEGRATION         |
| 2207 | 22121410.D | SEQ-CAL6 |          | 1  | NO MANUAL INTEGRATION         |
| 2225 | 22121411.D | SEQ-CAL7 |          | 1  | NO MANUAL INTEGRATION         |
| 2243 | 22121412.D | SEQ-CAL8 |          | 1  | NO MANUAL INTEGRATION         |
| 2301 | 22121413.D | SEQ-CAL9 |          | 1  | NO MANUAL INTEGRATION         |
| 2319 | 22121414.D | SEQ-CALA |          | 1  | NO MANUAL INTEGRATION         |
| 2336 | 22121415.D | SEQ-CALB |          | 1  | NO MANUAL INTEGRATION         |
| 2354 | 22121416.D | SEQ-CALC |          | 1  | NO MANUAL INTEGRATION         |
| 0012 | 22121417.D | SEQ-CALD |          | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

| Time | Filename   | LabID     | ClientId | DF | Manually Integrated Compounds |
|------|------------|-----------|----------|----|-------------------------------|
| 0030 | 22121418.D | SEQ-CALE  | 1        |    | NO MANUAL INTEGRATION         |
| 0048 | 22121419.D | SEQ-SCV1  | 1        |    | NO MANUAL INTEGRATION         |
| 0106 | 22121420.D | SEQ-SCV2  | 1        |    | NO MANUAL INTEGRATION         |
| 0124 | 22121421.D | SEQ-CAL1A | 1        |    | NO MANUAL INTEGRATION         |
| 0142 | 22121422.D | SEQ-CAL2A | 1        |    | NO MANUAL INTEGRATION         |
| 0159 | 22121423.D | SEQ-CAL3A | 1        |    | NO MANUAL INTEGRATION         |
| 0217 | 22121424.D | SEQ-CAL4A | 1        |    | NO MANUAL INTEGRATION         |
| 0235 | 22121425.D | SEQ-CAL5A | 1        |    | NO MANUAL INTEGRATION         |
| 0253 | 22121426.D | SEQ-CAL6A | 1        |    | NO MANUAL INTEGRATION         |
| 0311 | 22121427.D | SEQ-CAL7A | 1        |    | NO MANUAL INTEGRATION         |
| 0329 | 22121428.D | SEQ-CAL8A | 1        |    | NO MANUAL INTEGRATION         |
| 0346 | 22121429.D | SEQ-CAL9A | 1        |    | NO MANUAL INTEGRATION         |
| 0404 | 22121430.D | SEQ-CALAA | 1        |    | NO MANUAL INTEGRATION         |
| 0422 | 22121431.D | SEQ-CALAB | 1        |    | NO MANUAL INTEGRATION         |
| 0440 | 22121432.D | SEQ-CALAC | 1        |    | NO MANUAL INTEGRATION         |
| 0458 | 22121433.D | SEQ-CALAD | 1        |    | NO MANUAL INTEGRATION         |
| 0516 | 22121434.D | SEQ-CALAE | 1        |    | NO MANUAL INTEGRATION         |
| 0533 | 22121435.D | SEQ-PEM2  | 1        |    | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

| Time | Filename   | LabID        | ClientId | DF | Manually Integrated Compounds |
|------|------------|--------------|----------|----|-------------------------------|
| 0551 | 22121436.D | SEQ-ICV1     | 1        |    | NO MANUAL INTEGRATION         |
| 0609 | 22121437.D | SEQ-ICV2     | 1        |    | NO MANUAL INTEGRATION         |
| 0627 | 22121438.D | SEQ-ICV3     | 1        |    | NO MANUAL INTEGRATION         |
| 0645 | 22121439.D | SEQ-ICV4     | 1        |    | NO MANUAL INTEGRATION         |
| 0703 | 22121440.D | BKK0688-BLK1 | 1        |    | NO MANUAL INTEGRATION         |
| 0721 | 22121441.D | BKK0688-BS1  | 1        |    | NO MANUAL INTEGRATION         |
| 0739 | 22121442.D | BKK0688-BS2  | 1        |    | NO MANUAL INTEGRATION         |
| 0757 | 22121443.D | BKK0688-BS3  | 1        |    | NO MANUAL INTEGRATION         |
| 0815 | 22121444.D | BKK0688-BSD1 | 1        |    | NO MANUAL INTEGRATION         |
| 0832 | 22121445.D | BKK0142-BLK1 | 1        |    | NO MANUAL INTEGRATION         |
| 0850 | 22121446.D | BKK0142-BS1  | 1        |    | NO MANUAL INTEGRATION         |
| 0908 | 22121447.D | BKK0142-BS2  | 1        |    | NO MANUAL INTEGRATION         |
| 0926 | 22121448.D | BKK0142-BSD1 | 1        |    | NO MANUAL INTEGRATION         |
| 0944 | 22121449.D | BKK0142-MS1  | 1        |    | NO MANUAL INTEGRATION         |
| 1002 | 22121450.D | BKK0142-MSD1 | 1        |    | NO MANUAL INTEGRATION         |
| 1020 | 22121451.D | 22J0513-01   | 1        |    | NO MANUAL INTEGRATION         |
| 1038 | 22121452.D | 22J0513-04   | 1        |    | NO MANUAL INTEGRATION         |
| 1055 | 22121453.D | 22J0535-01   | 1        |    | trans-Chlordane,              |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

| Time | Filename   | LabID        | ClientId | DF | Manually Integrated Compounds |
|------|------------|--------------|----------|----|-------------------------------|
| 1113 | 22121454.D | 22K0429-01   | 1        |    | Heptachlor epoxide b,         |
| 1131 | 22121455.D | 22K0429-02   | 1        |    | Heptachlor epoxide b,         |
| 1149 | 22121456.D | 22K0429-03   | 1        |    | Hexachlorobenzene,            |
| 1207 | 22121457.D | SEQ-PEM3     | 1        |    | NO MANUAL INTEGRATION         |
| 1225 | 22121458.D | SEQ-CCV1     | 1        |    | NO MANUAL INTEGRATION         |
| 1243 | 22121459.D | SEQ-CCV2     | 1        |    | NO MANUAL INTEGRATION         |
| 1301 | 22121460.D | SEQ-CCV3     | 1        |    | NO MANUAL INTEGRATION         |
| 1319 | 22121461.D | SEQ-CCV4     | 1        |    | NO MANUAL INTEGRATION         |
| 1336 | 22121462.D | BKK0380-BLK1 | 1        |    | NO MANUAL INTEGRATION         |
| 1354 | 22121463.D | BKK0380-BS1  | 1        |    | NO MANUAL INTEGRATION         |
| 1412 | 22121464.D | BKK0380-BSD1 | 1        |    | NO MANUAL INTEGRATION         |
| 1430 | 22121465.D | 22K0157-01   | 1        |    | NO MANUAL INTEGRATION         |
| 1448 | 22121466.D | 22K0230-01   | 1        |    | NO MANUAL INTEGRATION         |
| 1506 | 22121467.D | 22K0231-01   | 1        |    | NO MANUAL INTEGRATION         |
| 1524 | 22121468.D | BKK0382-BLK1 | 1        |    | NO MANUAL INTEGRATION         |
| 1542 | 22121469.D | BKK0382-BS1  | 1        |    | NO MANUAL INTEGRATION         |
| 1600 | 22121470.D | BKK0382-BS2  | 1        |    | NO MANUAL INTEGRATION         |
| 1618 | 22121471.D | BKK0382-BSD1 | 1        |    | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

| Time | Filename   | LabID            | ClientId | DF | Manually Integrated Compounds |
|------|------------|------------------|----------|----|-------------------------------|
| 1635 | 22121472.D | 22K0075-01       |          | 1  | NO MANUAL INTEGRATION         |
| 1653 | 22121473.D | SEQ-PEM4         |          | 1  | NO MANUAL INTEGRATION         |
| 1711 | 22121474.D | SEQ-CCV5         |          | 1  | NO MANUAL INTEGRATION         |
| 1729 | 22121475.D | SEQ-CCV6         |          | 1  | NO MANUAL INTEGRATION         |
| 1747 | 22121476.D | SEQ-CCV7         |          | 1  | NO MANUAL INTEGRATION         |
| 1805 | 22121477.D | SEQ-CCV8         |          | 1  | NO MANUAL INTEGRATION         |
| 1823 | 22121478.D | BKK0537-BLK1     |          | 1  | NO MANUAL INTEGRATION         |
| 1840 | 22121479.D | BKK0537-BS1      |          | 1  | NO MANUAL INTEGRATION         |
| 1858 | 22121480.D | BKK0537-BS2      |          | 1  | NO MANUAL INTEGRATION         |
| 1916 | 22121481.D | 22K0194-01       |          | 1  | NO MANUAL INTEGRATION         |
| 1934 | 22121482.D | 22K0194-01RE1 10 |          | 1  | NO MANUAL INTEGRATION         |
| 1952 | 22121483.D | SEQ-PEM5         |          | 1  | NO MANUAL INTEGRATION         |
| 2009 | 22121484.D | SEQ-CCV9         |          | 1  | NO MANUAL INTEGRATION         |
| 2027 | 22121485.D | SEQ-CCVA         |          | 1  | NO MANUAL INTEGRATION         |
| 2045 | 22121486.D | SEQ-CCVB         |          | 1  | NO MANUAL INTEGRATION         |
| 2103 | 22121487.D | SEQ-CCVC         |          | 1  | NO MANUAL INTEGRATION         |
| 1927 | 22121401.D | RINSE            |          | 1  | NO MANUAL INTEGRATION         |
| 1944 | 22121402.D | RINSE            |          | 1  | NO MANUAL INTEGRATION         |



MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

| Time | Filename   | LabID    | ClientId | DF | Manually Integrated Compounds |
|------|------------|----------|----------|----|-------------------------------|
| 2002 | 22121403.D | SEQ-IBL1 | 1        |    | NO MANUAL INTEGRATION         |
| 2020 | 22121404.D | SEQ-PEM1 | 1        |    | NO MANUAL INTEGRATION         |
| 2038 | 22121405.D | SEQ-CAL1 | 1        |    | NO MANUAL INTEGRATION         |
| 2056 | 22121406.D | SEQ-CAL2 | 1        |    | NO MANUAL INTEGRATION         |
| 2114 | 22121407.D | SEQ-CAL3 | 1        |    | NO MANUAL INTEGRATION         |
| 2131 | 22121408.D | SEQ-CAL4 | 1        |    | NO MANUAL INTEGRATION         |
| 2149 | 22121409.D | SEQ-CAL5 | 1        |    | NO MANUAL INTEGRATION         |
| 2207 | 22121410.D | SEQ-CAL6 | 1        |    | NO MANUAL INTEGRATION         |
| 2225 | 22121411.D | SEQ-CAL7 | 1        |    | NO MANUAL INTEGRATION         |
| 2243 | 22121412.D | SEQ-CAL8 | 1        |    | NO MANUAL INTEGRATION         |
| 2301 | 22121413.D | SEQ-CAL9 | 1        |    | NO MANUAL INTEGRATION         |
| 2319 | 22121414.D | SEQ-CALA | 1        |    | NO MANUAL INTEGRATION         |
| 2336 | 22121415.D | SEQ-CALB | 1        |    | NO MANUAL INTEGRATION         |
| 2354 | 22121416.D | SEQ-CALC | 1        |    | NO MANUAL INTEGRATION         |
| 0012 | 22121417.D | SEQ-CALD | 1        |    | NO MANUAL INTEGRATION         |
| 0030 | 22121418.D | SEQ-CALE | 1        |    | NO MANUAL INTEGRATION         |
| 0048 | 22121419.D | SEQ-SCV1 | 1        |    | NO MANUAL INTEGRATION         |
| 0106 | 22121420.D | SEQ-SCV2 | 1        |    | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

| Time | Filename   | LabID     | ClientId | DF | Manually Integrated Compounds |
|------|------------|-----------|----------|----|-------------------------------|
| 0124 | 22121421.D | SEQ-CAL1A | 1        |    | NO MANUAL INTEGRATION         |
| 0142 | 22121422.D | SEQ-CAL2A | 1        |    | NO MANUAL INTEGRATION         |
| 0159 | 22121423.D | SEQ-CAL3A | 1        |    | NO MANUAL INTEGRATION         |
| 0217 | 22121424.D | SEQ-CAL4A | 1        |    | NO MANUAL INTEGRATION         |
| 0235 | 22121425.D | SEQ-CAL5A | 1        |    | NO MANUAL INTEGRATION         |
| 0253 | 22121426.D | SEQ-CAL6A | 1        |    | NO MANUAL INTEGRATION         |
| 0311 | 22121427.D | SEQ-CAL7A | 1        |    | NO MANUAL INTEGRATION         |
| 0329 | 22121428.D | SEQ-CAL8A | 1        |    | NO MANUAL INTEGRATION         |
| 0346 | 22121429.D | SEQ-CAL9A | 1        |    | NO MANUAL INTEGRATION         |
| 0404 | 22121430.D | SEQ-CALAA | 1        |    | NO MANUAL INTEGRATION         |
| 0422 | 22121431.D | SEQ-CALAB | 1        |    | NO MANUAL INTEGRATION         |
| 0440 | 22121432.D | SEQ-CALAC | 1        |    | NO MANUAL INTEGRATION         |
| 0458 | 22121433.D | SEQ-CALAD | 1        |    | NO MANUAL INTEGRATION         |
| 0516 | 22121434.D | SEQ-CALAE | 1        |    | NO MANUAL INTEGRATION         |
| 0533 | 22121435.D | SEQ-PEM2  | 1        |    | NO MANUAL INTEGRATION         |
| 0551 | 22121436.D | SEQ-ICV1  | 1        |    | NO MANUAL INTEGRATION         |
| 0609 | 22121437.D | SEQ-ICV2  | 1        |    | NO MANUAL INTEGRATION         |
| 0627 | 22121438.D | SEQ-ICV3  | 1        |    | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

| Time | Filename   | LabID        | ClientId | DF | Manually Integrated Compounds                              |
|------|------------|--------------|----------|----|--|
| 0645 | 22121439.D | SEQ-ICV4     | 1        |    | NO MANUAL INTEGRATION                                      |
| 0703 | 22121440.D | BKK0688-BLK1 | 1        |    | NO MANUAL INTEGRATION                                      |
| 0721 | 22121441.D | BKK0688-BS1  | 1        |    | NO MANUAL INTEGRATION                                      |
| 0739 | 22121442.D | BKK0688-BS2  | 1        |    | NO MANUAL INTEGRATION                                      |
| 0757 | 22121443.D | BKK0688-BS3  | 1        |    | NO MANUAL INTEGRATION                                      |
| 0815 | 22121444.D | BKK0688-BSD1 | 1        |    | NO MANUAL INTEGRATION                                      |
| 0832 | 22121445.D | BKK0142-BLK1 | 1        |    | NO MANUAL INTEGRATION                                      |
| 0850 | 22121446.D | BKK0142-BS1  | 1        |    | NO MANUAL INTEGRATION                                      |
| 0908 | 22121447.D | BKK0142-BS2  | 1        |    | NO MANUAL INTEGRATION                                      |
| 0926 | 22121448.D | BKK0142-BSD1 | 1        |    | NO MANUAL INTEGRATION                                      |
| 0944 | 22121449.D | BKK0142-MS1  | 1        |    | NO MANUAL INTEGRATION                                      |
| 1002 | 22121450.D | BKK0142-MSD1 | 1        |    | NO MANUAL INTEGRATION                                      |
| 1020 | 22121451.D | 22J0513-01   | 1        |    | NO MANUAL INTEGRATION                                      |
| 1038 | 22121452.D | 22J0513-04   | 1        |    | NO MANUAL INTEGRATION                                      |
| 1055 | 22121453.D | 22J0535-01   | 1        |    | trans-Chlordane [C],                                       |
| 1113 | 22121454.D | 22K0429-01   | 1        |    | NO MANUAL INTEGRATION                                      |
| 1131 | 22121455.D | 22K0429-02   | 1        |    | Aldrin [C], Heptachlor epoxide b [C], trans-Chlordane [C], |
| 1149 | 22121456.D | 22K0429-03   | 1        |    | Aldrin [C],  |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

| Time | Filename                | LabID | ClientId | DF | Manually Integrated Compounds |
|------|-------------------------|-------|----------|----|-------------------------------|
| 1207 | 22121457.D SEQ-PEM3     |       | 1        |    | NO MANUAL INTEGRATION         |
| 1225 | 22121458.D SEQ-CCV1     |       | 1        |    | NO MANUAL INTEGRATION         |
| 1243 | 22121459.D SEQ-CCV2     |       | 1        |    | NO MANUAL INTEGRATION         |
| 1301 | 22121460.D SEQ-CCV3     |       | 1        |    | NO MANUAL INTEGRATION         |
| 1319 | 22121461.D SEQ-CCV4     |       | 1        |    | NO MANUAL INTEGRATION         |
| 1336 | 22121462.D BKK0380-BLK1 |       | 1        |    | NO MANUAL INTEGRATION         |
| 1354 | 22121463.D BKK0380-BS1  |       | 1        |    | NO MANUAL INTEGRATION         |
| 1412 | 22121464.D BKK0380-BSD1 |       | 1        |    | NO MANUAL INTEGRATION         |
| 1430 | 22121465.D 22K0157-01   |       | 1        |    | NO MANUAL INTEGRATION         |
| 1448 | 22121466.D 22K0230-01   |       | 1        |    | NO MANUAL INTEGRATION         |
| 1506 | 22121467.D 22K0231-01   |       | 1        |    | NO MANUAL INTEGRATION         |
| 1524 | 22121468.D BKK0382-BLK1 |       | 1        |    | NO MANUAL INTEGRATION         |
| 1542 | 22121469.D BKK0382-BS1  |       | 1        |    | NO MANUAL INTEGRATION         |
| 1600 | 22121470.D BKK0382-BS2  |       | 1        |    | NO MANUAL INTEGRATION         |
| 1618 | 22121471.D BKK0382-BSD1 |       | 1        |    | NO MANUAL INTEGRATION         |
| 1635 | 22121472.D 22K0075-01   |       | 1        |    | NO MANUAL INTEGRATION         |
| 1653 | 22121473.D SEQ-PEM4     |       | 1        |    | NO MANUAL INTEGRATION         |
| 1711 | 22121474.D SEQ-CCV5     |       | 1        |    | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

| Time | Filename   | LabID            | ClientId | DF | Manually Integrated Compounds |
|------|------------|------------------|----------|----|-------------------------------|
| 1729 | 22121475.D | SEQ-CCV6         |          | 1  | NO MANUAL INTEGRATION         |
| 1747 | 22121476.D | SEQ-CCV7         |          | 1  | NO MANUAL INTEGRATION         |
| 1805 | 22121477.D | SEQ-CCV8         |          | 1  | NO MANUAL INTEGRATION         |
| 1823 | 22121478.D | BKK0537-BLK1     |          | 1  | NO MANUAL INTEGRATION         |
| 1840 | 22121479.D | BKK0537-BS1      |          | 1  | NO MANUAL INTEGRATION         |
| 1858 | 22121480.D | BKK0537-BS2      |          | 1  | NO MANUAL INTEGRATION         |
| 1916 | 22121481.D | 22K0194-01       |          | 1  | NO MANUAL INTEGRATION         |
| 1934 | 22121482.D | 22K0194-01RE1 10 |          | 1  | NO MANUAL INTEGRATION         |
| 1952 | 22121483.D | SEQ-PEM5         |          | 1  | NO MANUAL INTEGRATION         |
| 2010 | 22121484.D | SEQ-CCV9         |          | 1  | NO MANUAL INTEGRATION         |
| 2027 | 22121485.D | SEQ-CCVA         |          | 1  | NO MANUAL INTEGRATION         |
| 2045 | 22121486.D | SEQ-CCVB         |          | 1  | NO MANUAL INTEGRATION         |
| 2103 | 22121487.D | SEQ-CCVC         |          | 1  | NO MANUAL INTEGRATION         |

Security Status Report

Date: 17-Dec-2022 10:57

|            |             |                            |
|------------|-------------|----------------------------|
| 22121401.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121402.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121403.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121404.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121405.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121406.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121407.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121408.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121409.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121410.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121411.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121412.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121413.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121414.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121415.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121416.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121417.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121418.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121419.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121420.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121421.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121422.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121423.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121424.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121425.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121426.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121427.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121428.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121429.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121430.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121431.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121432.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121433.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121434.D | Data Locked | j rains, 17-Dec-2022 10:57 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38  
 End Cal Date : 15-DEC-2022 05:16  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m  
 Last Edit : 15-Dec-2022 08:33 jrains  
 Curve Type : Average

Calibration File Names:

Level 1: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121428.D  
 Level 2: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121429.D  
 Level 3: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121430.D  
 Level 4: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121431.D  
 Level 5: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121432.D  
 Level 6: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121433.D  
 Level 7: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121434.D

| Compound                  | 1.250<br>Level 1 | 2.500<br>Level 2 | 5.000<br>Level 3 | 10.000<br>Level 4 | 20.000<br>Level 5 | 40.000<br>Level 6 | RRF     | % RSD  |
|---------------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|--------|
| 1 Hexachlorobutadiene [C] | ++++<br>1.30081  | 1.97561          | 1.64885          | 1.49248           | 1.37610           | 1.34121           | 1.52251 | 16.761 |
| 5 Hexachlorobenzene [C]   | ++++<br>1.30422  | 1.60221          | 1.52062          | 1.49140           | 1.45025           | 1.38595           | 1.45911 | 7.170  |
| 6 alpha-BHC [C]           | ++++<br>1.56190  | 1.58236          | 1.58624          | 1.63316           | 1.64049           | 1.61544           | 1.60327 | 1.946  |
| 7 gamma-BHC (Lindane) [C] | ++++<br>1.31891  | 1.35507          | 1.34878          | 1.38146           | 1.39277           | 1.36661           | 1.36060 | 1.921  |
| 8 beta-BHC [C]            | ++++<br>0.56430  | 0.65278          | 0.61729          | 0.61846           | 0.61258           | 0.59180           | 0.60954 | 4.856  |
| 9 delta-BHC [C]           | ++++<br>1.29291  | 1.32376          | 1.30723          | 1.33943           | 1.32843           | 1.33198           | 1.32062 | 1.312  |
| 10 Heptachlor [C]         | ++++<br>1.14412  | 1.27025          | 1.23424          | 1.25841           | 1.27225           | 1.21576           | 1.23250 | 3.937  |
| 11 Chlorthalonil          | ++++<br>++++     | ++++             | ++++             | ++++              | ++++              | ++++              | ++++    | ++++   |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38  
 End Cal Date : 15-DEC-2022 05:16  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m  
 Last Edit : 15-Dec-2022 08:33 j rains  
 Curve Type : Average

| Compound                    | 1.250<br>Level 1 | 2.500<br>Level 2 | 5.000<br>Level 3 | 10.000<br>Level 4 | 20.000<br>Level 5 | 40.000<br>Level 6 | RRF     | % RSD |
|-----------------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|-------|
| 80.000<br>Level 7           |                  |                  |                  |                   |                   |                   |         |       |
| 12 Aldrin [C]               | ++++<br>1.28126  | 1.51140          | 1.41672          | 1.43264           | 1.43038           | 1.37092           | 1.40722 | 5.441 |
| 13 Heptachlor Epoxide a     | ++++<br>++++     | ++++             | ++++             | ++++              | ++++              | ++++              | ++++    | ++++  |
| 14 Heptachlor epoxide b [C] | ++++<br>1.04614  | 1.29770          | 1.17460          | 1.17429           | 1.17471           | 1.11443           | 1.16364 | 7.144 |
| 15 cis-Chlordane [C]        | ++++<br>1.03859  | 1.25850          | 1.15320          | 1.13505           | 1.13625           | 1.08979           | 1.13523 | 6.464 |
| 16 trans-Chlordane [C]      | ++++<br>1.07269  | 1.25449          | 1.17610          | 1.16484           | 1.16885           | 1.12553           | 1.16042 | 5.185 |
| 17 Endosulfan I [C]         | ++++<br>0.93258  | 1.11826          | 1.04415          | 1.03541           | 1.03470           | 0.98850           | 1.02560 | 6.032 |
| 18 4,4'-DDE [C]             | ++++<br>0.93563  | 1.12024          | 1.06963          | 1.06439           | 1.05541           | 0.98971           | 1.03917 | 6.320 |
| 19 Dieldrin [C]             | ++++<br>1.01937  | 1.27001          | 1.16284          | 1.13936           | 1.13610           | 1.07139           | 1.13318 | 7.532 |
| 20 Endrin [C]               | ++++<br>1.01378  | 1.25691          | 1.17909          | 1.15948           | 1.14960           | 1.06606           | 1.13749 | 7.566 |
| 21 4,4'-DDD [C]             | ++++<br>1.00638  | 1.23448          | 1.12156          | 1.11779           | 1.11200           | 1.04628           | 1.10642 | 7.049 |
| 22 Endosulfan II [C]        | ++++<br>1.04780  | 1.29682          | 1.20296          | 1.18849           | 1.16050           | 1.09906           | 1.16594 | 7.425 |



ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38  
 End Cal Date : 15-DEC-2022 05:16  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m  
 Last Edit : 15-Dec-2022 08:33 j rains  
 Curve Type : Average

| Compound                  | 1.250<br>Level 1  | 2.500<br>Level 2 | 5.000<br>Level 3 | 10.000<br>Level 4 | 20.000<br>Level 5 | 40.000<br>Level 6 | RRF     | % RSD |
|---------------------------|-------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|-------|
| 23 4,4'-DDT [C]           | 80.000<br>Level 7 | ++++<br>1.17591  | 1.07782          | 1.06761           | 1.07327           | 1.01936           | 1.06790 | 5.878 |
| 24 Endrin aldehyde [C]    | 0.99339           | ++++<br>0.94301  | 0.84303          | 0.82492           | 0.81299           | 0.77277           | 0.82246 | 8.537 |
| 25 Endosulfan sulfate [C] | 0.73803           | ++++<br>1.13777  | 1.04255          | 1.03037           | 1.02302           | 0.97217           | 1.02386 | 6.702 |
| 26 Methoxychlor [C]       | 0.93725           | ++++<br>0.51841  | 0.48668          | 0.47517           | 0.46817           | 0.44340           | 0.47258 | 5.996 |
| 27 Endrin ketone [C]      | 0.44364           | ++++<br>1.23563  | 1.11999          | 1.11440           | 1.10085           | 1.04766           | 1.10585 | 6.827 |
| 29 Aroclor-1016(1)        | 1.01657           | ++++             | ++++             | ++++              | ++++              | ++++              | ++++    | ++++  |
| (2)                       | ++++              | ++++             | ++++             | ++++              | ++++              | ++++              | ++++    | ++++  |
| (3)                       | ++++              | ++++             | ++++             | ++++              | ++++              | ++++              | ++++    | ++++  |
| (4)                       | ++++              | ++++             | ++++             | ++++              | ++++              | ++++              | ++++    | ++++  |
| (5)                       | ++++              | ++++             | ++++             | ++++              | ++++              | ++++              | ++++    | ++++  |
| 30 Aroclor-1221(1)        | ++++              | ++++             | ++++             | ++++              | ++++              | ++++              | ++++    | ++++  |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38  
 End Cal Date : 15-DEC-2022 05:16  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m  
 Last Edit : 15-Dec-2022 08:33 j rains  
 Curve Type : Average

| Compound            | 1.250<br>Level 1 | 2.500<br>Level 2 | 5.000<br>Level 3 | 10.000<br>Level 4 | 20.000<br>Level 5 | 40.000<br>Level 6 | 80.000<br>Level 7 | RRF   | % RSD |
|---------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------|-------|
| (2)                 | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (3)                 | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (4)                 | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| 31 Aroclor-1232 (1) | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (2)                 | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (3)                 | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (4)                 | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (5)                 | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| 32 Aroclor-1242 (1) | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (2)                 | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (3)                 | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38  
 End Cal Date : 15-DEC-2022 05:16  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m  
 Last Edit : 15-Dec-2022 08:33 j rains  
 Curve Type : Average

| Compound           | 1.250<br>Level 1 | 2.500<br>Level 2 | 5.000<br>Level 3 | 10.000<br>Level 4 | 20.000<br>Level 5 | 40.000<br>Level 6 | 80.000<br>Level 7 | RRF   | % RSD |
|--------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------|-------|
| (4)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (5)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| 33 Aroclor-1248(1) | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (2)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (3)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (4)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (5)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| 34 Aroclor-1254(1) | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (2)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (3)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (4)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38  
 End Cal Date : 15-DEC-2022 05:16  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m  
 Last Edit : 15-Dec-2022 08:33 j rains  
 Curve Type : Average

| Compound           | 1.250<br>Level 1 | 2.500<br>Level 2 | 5.000<br>Level 3 | 10.000<br>Level 4 | 20.000<br>Level 5 | 40.000<br>Level 6 | 80.000<br>Level 7 | RRF   | % RSD |
|--------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------|-------|
| (5)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| 35 Aroclor-1260(1) | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (2)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (3)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (4)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (5)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| 36 Aroclor-1262(1) | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (2)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (3)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (4)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (5)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38  
 End Cal Date : 15-DEC-2022 05:16  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m  
 Last Edit : 15-Dec-2022 08:33 jrains  
 Curve Type : Average

| Compound             | 1.250<br>Level 1   | 2.500<br>Level 2 | 5.000<br>Level 3 | 10.000<br>Level 4 | 20.000<br>Level 5 | 40.000<br>Level 6 | RRF     | % RSD  |
|----------------------|--------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|--------|
| 37 Aroclor-1268 (1)  | +++++              | +++++            | +++++            | +++++             | +++++             | +++++             | +++++   | +++++  |
| (2)                  | +++++              | +++++            | +++++            | +++++             | +++++             | +++++             | +++++   | +++++  |
| (3)                  | +++++              | +++++            | +++++            | +++++             | +++++             | +++++             | +++++   | +++++  |
| (4)                  | +++++              | +++++            | +++++            | +++++             | +++++             | +++++             | +++++   | +++++  |
| (5)                  | +++++              | +++++            | +++++            | +++++             | +++++             | +++++             | +++++   | +++++  |
| 38 Toxaphene [C] (1) | 0.01492<br>0.01387 | 0.01529          | 0.01573          | 0.01558           | 0.01527           | 0.01455           | 0.01503 | 4.285  |
| (2)                  | 0.03524<br>0.03010 | 0.03538          | 0.03581          | 0.03480           | 0.03351           | 0.03170           | 0.03379 | 6.368  |
| (3)                  | 0.02615<br>0.02387 | 0.02659          | 0.02671          | 0.02640           | 0.02571           | 0.02464           | 0.02572 | 4.197  |
| (4)                  | 0.08868<br>0.07782 | 0.08690          | 0.08740          | 0.08502           | 0.08225           | 0.07926           | 0.08390 | 5.022  |
| (5)                  | 0.04138<br>0.04062 | 0.04124          | 0.04193          | 0.04145           | 0.04102           | 0.04046           | 0.04116 | 1.227  |
| 39 2,4-DDE [C]       | +++++<br>0.60202   | 0.83433          | 0.80524          | 0.74313           | 0.72589           | 0.66671           | 0.72955 | 11.810 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38  
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 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m  
 Last Edit : 15-Dec-2022 08:33 jrains  
 Curve Type : Average

| Compound                        | 1.250<br>Level 1   | 2.500<br>Level 2 | 5.000<br>Level 3 | 10.000<br>Level 4 | 20.000<br>Level 5 | 40.000<br>Level 6 | RRF     | % RSD |
|---------------------------------|--------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|-------|
| 40 2,4-DDD [C]                  | ++++<br>0.71370    | 0.90975          | 0.87971          | 0.82738           | 0.81642           | 0.76623           | 0.81887 | 8.785 |
| 41 2,4-DDT [C]                  | ++++<br>0.74249    | 0.94001          | 0.88046          | 0.85026           | 0.84852           | 0.79773           | 0.84324 | 8.052 |
| 42 Hexachloroethane [C]         | ++++<br>++++       | ++++             | ++++             | ++++              | ++++              | ++++              | ++++    | ++++  |
| 43 Oxychlordan [C]              | ++++<br>0.79092    | 0.96447          | 0.94678          | 0.90333           | 0.89663           | 0.84333           | 0.89091 | 7.271 |
| 44 trans-Nonachlor [C]          | ++++<br>1.30668    | 1.48885          | 1.51762          | 1.45179           | 1.44766           | 1.37681           | 1.43157 | 5.406 |
| 45 cis-Nonachlor [C]            | ++++<br>1.24817    | 1.44924          | 1.40707          | 1.37647           | 1.37212           | 1.31329           | 1.36106 | 5.224 |
| 46 Mirex [C]                    | ++++<br>0.70751    | 0.93314          | 0.81155          | 0.79462           | 0.76268           | 0.73998           | 0.79158 | 9.949 |
| 47 bis-(2-ethylhexyl) Phthalate | ++++<br>++++       | ++++             | ++++             | ++++              | ++++              | ++++              | ++++    | ++++  |
| 48 Chlordane (NOS) [C] (1)      | 0.03877<br>0.03764 | 0.03690          | 0.03764          | 0.03840           | 0.03761           | 0.03805           | 0.03786 | 1.615 |
| (2)                             | 0.04647<br>0.03825 | 0.04439          | 0.04416          | 0.04357           | 0.04103           | 0.03978           | 0.04252 | 6.844 |
| (3)                             | 0.14135<br>0.13812 | 0.14252          | 0.14927          | 0.15059           | 0.14418           | 0.14081           | 0.14383 | 3.173 |

ARI Labs, Inc.

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 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m  
 Last Edit : 15-Dec-2022 08:33 j rains  
 Curve Type : Average

| Compound                      | 1.250<br>Level 1 | 2.500<br>Level 2 | 5.000<br>Level 3 | 10.000<br>Level 4 | 20.000<br>Level 5 | 40.000<br>Level 6 | RRF          | % RSD        |
|-------------------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------|--------------|
| 49 Trifluralin                | ++++<br>++++     | ++++<br>++++     | ++++<br>++++     | ++++<br>++++      | ++++<br>++++      | ++++<br>++++      | ++++<br>++++ | ++++<br>++++ |
| 50 Dacthal                    | ++++<br>++++     | ++++<br>++++     | ++++<br>++++     | ++++<br>++++      | ++++<br>++++      | ++++<br>++++      | ++++<br>++++ | ++++<br>++++ |
| 51 Oxadiazon                  | ++++<br>++++     | ++++<br>++++     | ++++<br>++++     | ++++<br>++++      | ++++<br>++++      | ++++<br>++++      | ++++<br>++++ | ++++<br>++++ |
| 52 Kelthane                   | ++++<br>++++     | ++++<br>++++     | ++++<br>++++     | ++++<br>++++      | ++++<br>++++      | ++++<br>++++      | ++++<br>++++ | ++++<br>++++ |
| 53 Chlorpyrifos               | ++++<br>++++     | ++++<br>++++     | ++++<br>++++     | ++++<br>++++      | ++++<br>++++      | ++++<br>++++      | ++++<br>++++ | ++++<br>++++ |
| 54 Methyl Parathion           | ++++<br>++++     | ++++<br>++++     | ++++<br>++++     | ++++<br>++++      | ++++<br>++++      | ++++<br>++++      | ++++<br>++++ | ++++<br>++++ |
| 55 Ethyl Parathion            | ++++<br>++++     | ++++<br>++++     | ++++<br>++++     | ++++<br>++++      | ++++<br>++++      | ++++<br>++++      | ++++<br>++++ | ++++<br>++++ |
| 56 Kepone [C]                 | ++++<br>++++     | ++++<br>++++     | ++++<br>++++     | ++++<br>++++      | ++++<br>++++      | ++++<br>++++      | ++++<br>++++ | ++++<br>++++ |
| 57 1-Chloropyrene             | ++++<br>++++     | ++++<br>++++     | ++++<br>++++     | ++++<br>++++      | ++++<br>++++      | ++++<br>++++      | ++++<br>++++ | ++++<br>++++ |
| \$ 4 Tetrachloro-m-xylene [C] | ++++<br>0.99482  | 1.22086          | 1.17937          | 1.16483           | 1.12798           | 1.06878           | 1.12611      | 7.306        |
| \$ 28 Decachlorobiphenyl [C]  | ++++<br>0.77119  | 1.08714          | 0.93916          | 0.85624           | 0.84996           | 0.80139           | 0.88418      | 12.973       |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03  
 End Cal Date : 13-DEC-2022 22:43  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m  
 Last Edit : 14-Dec-2022 10:32  
 Curve Type : Average

Calibration File Names:

Level 1: \\target\share\chem4\ecd6.i\20220809.b\22080909.D  
 Level 2: \\target\share\chem4\ecd6.i\20220809.b\22080910.D  
 Level 3: \\target\share\chem4\ecd6.i\20220809.b\22080911.D  
 Level 4: \\target\share\chem4\ecd6.i\20220809.b\22080912.D  
 Level 5: \\target\share\chem4\ecd6.i\20220809.b\22080913.D  
 Level 6: \\target\share\chem4\ecd6.i\20220809.b\22080914.D  
 Level 7: \\target\share\chem4\ecd6.i\20220809.b\22080915.D

| Compound              | 1.250<br>Level 1 | 2.500<br>Level 2 | 5.000<br>Level 3 | 10.000<br>Level 4 | 20.000<br>Level 5 | 40.000<br>Level 6 | RRF     | % RSD |
|-----------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|-------|
| 1 Hexachlorobutadiene | +++++<br>1.30292 | 1.64215          | 1.55667          | 1.51049           | 1.47308           | 1.40536           | 1.48178 | 7.988 |
| 5 Hexachlorobenzene   | +++++<br>1.15582 | 1.48647          | 1.40778          | 1.36481           | 1.31957           | 1.25458           | 1.33150 | 8.750 |
| 6 alpha-BHC           | +++++<br>1.29587 | 1.41183          | 1.40802          | 1.42270           | 1.42790           | 1.37811           | 1.39074 | 3.567 |
| 7 gamma-BHC (Lindane) | +++++<br>1.11861 | 1.20108          | 1.18733          | 1.20704           | 1.21598           | 1.18532           | 1.18589 | 2.948 |
| 8 beta-BHC            | +++++<br>0.50588 | 0.65244          | 0.60612          | 0.58927           | 0.57533           | 0.54649           | 0.57925 | 8.684 |
| 9 delta-BHC           | +++++<br>1.16159 | 1.15252          | 1.13315          | 1.18185           | 1.21952           | 1.21492           | 1.17726 | 2.950 |
| 10 Heptachlor         | +++++<br>0.94214 | 1.18674          | 1.12881          | 1.11527           | 1.09009           | 1.03076           | 1.08230 | 7.897 |
| 11 Aldrin             | +++++<br>0.96536 | 1.14505          | 1.10493          | 1.10576           | 1.09698           | 1.04621           | 1.07738 | 5.877 |



## ARI Labs, Inc.

## INITIAL CALIBRATION DATA

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 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m  
 Last Edit : 14-Dec-2022 10:32  
 Curve Type : Average

| Compound                | 1.250<br>Level 1 | 2.500<br>Level 2 | 5.000<br>Level 3 | 10.000<br>Level 4 | 20.000<br>Level 5 | 40.000<br>Level 6 | RRF     | % RSD  |
|-------------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|--------|
| 80.000<br>Level 7       |                  |                  |                  |                   |                   |                   |         |        |
| 12 Chlorthalonil        | ++++             | ++++             | ++++             | ++++              | ++++              | ++++              | ++++    | ++++   |
| 13 Heptachlor Epoxide a | ++++             | ++++             | ++++             | ++++              | ++++              | ++++              | ++++    | ++++   |
| 14 Heptachlor epoxide b | ++++<br>0.81733  | 1.05278          | 0.99602          | 0.98316           | 0.95413           | 0.89408           | 0.94959 | 8.751  |
| 15 cis-Chlordane        | ++++<br>0.82943  | 1.00217          | 0.95563          | 0.94931           | 0.93343           | 0.89233           | 0.92705 | 6.424  |
| 16 trans-Chlordane      | ++++<br>0.84267  | 1.02223          | 0.96054          | 0.95840           | 0.94631           | 0.90606           | 0.93937 | 6.420  |
| 17 Endosulfan I         | ++++<br>0.77363  | 1.10444          | 1.01004          | 0.97510           | 0.92642           | 0.86761           | 0.94287 | 12.207 |
| 18 4,4'-DDE             | ++++<br>0.73346  | 0.85783          | 0.84618          | 0.86175           | 0.85068           | 0.80349           | 0.82557 | 6.027  |
| 19 Dieldrin             | ++++<br>0.79720  | 1.02112          | 0.97469          | 0.96064           | 0.93395           | 0.87876           | 0.92773 | 8.553  |
| 20 Endrin               | ++++<br>0.92125  | 1.03359          | 0.99258          | 1.01493           | 1.03951           | 0.95184           | 0.99228 | 4.755  |
| 21 4,4'-DDD             | ++++<br>1.02286  | 1.26749          | 1.21690          | 1.21140           | 1.19455           | 1.09258           | 1.16763 | 7.815  |
| 22 Endosulfan II        | ++++<br>1.05695  | 1.32213          | 1.30831          | 1.28817           | 1.25191           | 1.14300           | 1.22841 | 8.614  |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m  
 Last Edit : 14-Dec-2022 10:32  
 Curve Type : Average

| Compound              | 1.250<br>Level 1 | 2.500<br>Level 2 | 5.000<br>Level 3 | 10.000<br>Level 4 | 20.000<br>Level 5 | 40.000<br>Level 6 | RRF     | % RSD |
|-----------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|-------|
| 23 4,4'-DDT           | ++++<br>1.06544  | 1.20278          | 1.19912          | 1.21231           | 1.21971           | 1.13284           | 1.17203 | 5.186 |
| 24 Endrin aldehyde    | ++++<br>0.84575  | 1.05042          | 1.01673          | 1.00197           | 0.99460           | 0.91340           | 0.97048 | 7.836 |
| 25 Methoxychlor       | ++++<br>0.43428  | 0.56408          | 0.54010          | 0.51985           | 0.50693           | 0.45626           | 0.50358 | 9.854 |
| 26 Endosulfan sulfate | ++++<br>0.94888  | 1.14290          | 1.11216          | 1.09802           | 1.09968           | 1.00734           | 1.06816 | 6.922 |
| 27 Endrin ketone      | ++++<br>1.12695  | 1.47959          | 1.40243          | 1.34455           | 1.31335           | 1.19489           | 1.31029 | 9.966 |
| 29 Aroclor-1016(1)    | ++++<br>++++     | ++++             | ++++             | ++++              | ++++              | ++++              | ++++    | ++++  |
| (2)                   | ++++<br>++++     | ++++             | ++++             | ++++              | ++++              | ++++              | ++++    | ++++  |
| (3)                   | ++++<br>++++     | ++++             | ++++             | ++++              | ++++              | ++++              | ++++    | ++++  |
| (4)                   | ++++<br>++++     | ++++             | ++++             | ++++              | ++++              | ++++              | ++++    | ++++  |
| (5)                   | ++++<br>++++     | ++++             | ++++             | ++++              | ++++              | ++++              | ++++    | ++++  |
| 30 Aroclor-1221(1)    | ++++<br>++++     | ++++             | ++++             | ++++              | ++++              | ++++              | ++++    | ++++  |

ARI Labs, Inc.

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 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m  
 Last Edit : 14-Dec-2022 10:32  
 Curve Type : Average

| Compound            | 1.250<br>Level 1 | 2.500<br>Level 2 | 5.000<br>Level 3 | 10.000<br>Level 4 | 20.000<br>Level 5 | 40.000<br>Level 6 | 80.000<br>Level 7 | RRF   | % RSD |
|---------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------|-------|
| (2)                 | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (3)                 | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (4)                 | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| 31 Aroclor-1232 (1) | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (2)                 | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (3)                 | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (4)                 | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (5)                 | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| 32 Aroclor-1242 (1) | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (2)                 | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (3)                 | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |

ARI Labs, Inc.

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 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m  
 Last Edit : 14-Dec-2022 10:32  
 Curve Type : Average

| Compound           | 1.250<br>Level 1 | 2.500<br>Level 2 | 5.000<br>Level 3 | 10.000<br>Level 4 | 20.000<br>Level 5 | 40.000<br>Level 6 | 80.000<br>Level 7 | RRF   | % RSD |
|--------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------|-------|
| (4)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (5)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (6)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| 33 Aroclor-1248(1) | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (2)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (3)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (4)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (5)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| 34 Aroclor-1254(1) | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (2)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (3)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03  
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 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m  
 Last Edit : 14-Dec-2022 10:32  
 Curve Type : Average

| Compound           | 1.250<br>Level 1 | 2.500<br>Level 2 | 5.000<br>Level 3 | 10.000<br>Level 4 | 20.000<br>Level 5 | 40.000<br>Level 6 | 80.000<br>Level 7 | RRF   | % RSD |
|--------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------|-------|
| (4)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (5)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| 35 Aroclor-1260(1) | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (2)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (3)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (4)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (5)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| 36 Aroclor-1262(1) | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (2)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (3)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |
| (4)                | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++ | +++++ |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03  
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 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m  
 Last Edit : 14-Dec-2022 10:32  
 Curve Type : Average

| Compound           | 1.250<br>Level 1    | 2.500<br>Level 2 | 5.000<br>Level 3 | 10.000<br>Level 4 | 20.000<br>Level 5 | 40.000<br>Level 6 | 80.000<br>Level 7 | RRF     | % RSD  |
|--------------------|---------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|---------|--------|
| (5)                | +++++               | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++   | +++++  |
| 37 Aroclor-1268(1) | +++++               | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++   | +++++  |
| (2)                | +++++               | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++   | +++++  |
| (3)                | +++++               | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++   | +++++  |
| (4)                | +++++               | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++   | +++++  |
| (5)                | +++++               | +++++            | +++++            | +++++             | +++++             | +++++             |                   | +++++   | +++++  |
| 38 Toxaphene(1)    | 0.02824 <br>0.02792 | 0.03896          | 0.03693          | 0.03480           | 0.03418           | 0.02891           |                   | 0.03285 | 13.645 |
| (2)                | 0.08343 <br>0.08263 | 0.10636          | 0.10204          | 0.09499           | 0.09608           | 0.08394           |                   | 0.09278 | 10.362 |
| (3)                | 0.04776 <br>0.05119 | 0.06283          | 0.06069          | 0.06020           | 0.06090           | 0.05141           |                   | 0.05643 | 10.755 |
| (4)                | 0.05098 <br>0.06388 | 0.07225          | 0.07089          | 0.06844           | 0.06847           | 0.06296           |                   | 0.06541 | 11.021 |
| (5)                | 0.04955 <br>0.05934 | 0.06896          | 0.06748          | 0.06372           | 0.06603           | 0.05846           |                   | 0.06194 | 10.880 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03  
 End Cal Date : 13-DEC-2022 22:43  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m  
 Last Edit : 14-Dec-2022 10:32  
 Curve Type : Average

| Compound                        | 1.250<br>Level 1   | 2.500<br>Level 2 | 5.000<br>Level 3 | 10.000<br>Level 4 | 20.000<br>Level 5 | 40.000<br>Level 6 | RRF     | % RSD  |
|---------------------------------|--------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|--------|
| 39 2,4-DDE                      | ++++<br>0.89319    | 1.14103          | 1.08072          | 1.09005           | 1.06169           | 0.88466           | 1.02522 | 10.614 |
| 40 2,4-DDD                      | ++++<br>0.85318    | 1.08881          | 1.01841          | 0.99599           | 0.98400           | 0.85150           | 0.96531 | 9.816  |
| 41 2,4-DDT                      | ++++<br>0.88215    | 0.97799          | 0.97179          | 0.97332           | 0.98841           | 0.88743           | 0.94685 | 5.117  |
| 42 Hexachloroethane             | ++++<br>++++       | ++++             | ++++             | ++++              | ++++              | ++++              | ++++    | ++++   |
| 43 Oxychlordane                 | ++++<br>1.05015    | 1.32927          | 1.24890          | 1.22496           | 1.20236           | 1.04785           | 1.18392 | 9.540  |
| 44 trans-Nonachlor              | ++++<br>1.36253    | 1.68629          | 1.57989          | 1.58456           | 1.55669           | 1.34437           | 1.51906 | 8.949  |
| 45 cis-Nonachlor                | ++++<br>1.35527    | 1.62941          | 1.55213          | 1.53413           | 1.52347           | 1.34758           | 1.49033 | 7.639  |
| 46 Mirex                        | ++++<br>0.85786    | 1.20478          | 1.11168          | 1.05006           | 1.00932           | 0.85381           | 1.01459 | 13.749 |
| 47 bis-(2-ethylhexyl) Phthalate | ++++<br>++++       | ++++             | ++++             | ++++              | ++++              | ++++              | ++++    | ++++   |
| 48 Chlordane (NOS) (1)          | 0.06029<br>0.04531 | 0.05735          | 0.05369          | 0.05005           | 0.04581           | 0.04808           | 0.05151 | 11.230 |
| (2)                             | 0.15038<br>0.12030 | 0.14213          | 0.13501          | 0.13074           | 0.12020           | 0.12674           | 0.13221 | 8.482  |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03  
 End Cal Date : 13-DEC-2022 22:43  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m  
 Last Edit : 14-Dec-2022 10:32  
 Curve Type : Average

| Compound               | 1.250<br>Level 1 | 2.500<br>Level 2 | 5.000<br>Level 3 | 10.000<br>Level 4 | 20.000<br>Level 5 | 40.000<br>Level 6 | RRF     | % RSD  |
|------------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|--------|
| (3)                    | 0.17221          | 0.15459          | 0.13623          | 0.13893           | 0.12753           | 0.13518           | 0.14232 | 11.024 |
| 49 Trifluralin         | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             | +++++   | +++++  |
| 50 Dacthal             | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             | +++++   | +++++  |
| 51 Oxadiazon           | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             | +++++   | +++++  |
| 52 Kelthane            | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             | +++++   | +++++  |
| 53 Chlorpyrifos        | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             | +++++   | +++++  |
| 54 Methyl Parathion    | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             | +++++   | +++++  |
| 55 Ethyl Parathion     | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             | +++++   | +++++  |
| 56 Kepone              | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             | +++++   | +++++  |
| 57 1-Chloropyrene      | +++++            | +++++            | +++++            | +++++             | +++++             | +++++             | +++++   | +++++  |
| 4 Tetrachloro-m-xylene | 0.85040          | 1.10401          | 1.05839          | 1.02629           | 0.99588           | 0.93352           | 0.99475 | 9.166  |



ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03  
 End Cal Date : 13-DEC-2022 22:43  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m  
 Last Edit : 14-Dec-2022 10:32  
 Curve Type : Average

| Compound                 | 1.250<br>Level 1 | 2.500<br>Level 2 | 5.000<br>Level 3 | 10.000<br>Level 4 | 20.000<br>Level 5 | 40.000<br>Level 6 | RRF     | % RSD  |
|--------------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|--------|
| 80.000<br>Level 7        |                  |                  |                  |                   |                   |                   |         |        |
| \$ 28 Decachlorobiphenyl | +++++            | 0.99444          | 0.96249          | 0.90111           | 0.87014           | 0.79161           | 0.87939 | 10.607 |
|                          | 0.75653          |                  |                  |                   |                   |                   |         |        |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

Table with 7 columns: ID, RT01, RT02, RT03, RT04, RT05, RT06, RT07. Rows include FILENAME, INJ. DATE, and INJ. TIME for each RT column.

Main data table with columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Lists compounds like Hexachlorobutadiene, Aldrin, etc.

Reviewer 1 \_\_\_\_\_ Date: \_\_\_\_\_
Reviewer 2 \_\_\_\_\_ Date: \_\_\_\_\_

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m  
Batch File: \\target\share\chem4\ecd6.i\20221214.b  
Inst ID: ecd6.i

| Compound              | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | RT07  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 18 4,4'-DDE           | 6.489 | 6.489 | 6.490 | 6.490 | 6.489 | 6.489 | 6.490 | 6.489    | 6.459-6.519   | 6.489  | 0.000   |
| 19 Dieldrin           | 6.831 | 6.832 | 6.832 | 6.832 | 6.831 | 6.832 | 6.832 | 6.831    | 6.801-6.861   | 6.832  | 0.000   |
| 20 Endrin             | 7.081 | 7.081 | 7.082 | 7.082 | 7.081 | 7.082 | 7.082 | 7.081    | 7.051-7.111   | 7.082  | 0.000   |
| 21 4,4'-DDD           | 7.135 | 7.136 | 7.136 | 7.136 | 7.135 | 7.136 | 7.135 | 7.135    | 7.105-7.165   | 7.136  | 0.000   |
| 22 Endosulfan II      | 7.318 | 7.317 | 7.318 | 7.318 | 7.317 | 7.317 | 7.317 | 7.317    | 7.287-7.347   | 7.317  | 0.000   |
| 23 4,4'-DDT           | 7.427 | 7.427 | 7.428 | 7.428 | 7.427 | 7.427 | 7.428 | 7.427    | 7.397-7.457   | 7.428  | 0.000   |
| 24 Endrin aldehyde    | 7.746 | 7.746 | 7.746 | 7.746 | 7.746 | 7.746 | 7.746 | 7.746    | 7.716-7.776   | 7.746  | 0.000   |
| 25 Methoxychlor       | 7.912 | 7.912 | 7.913 | 7.912 | 7.912 | 7.912 | 7.912 | 7.912    | 7.882-7.942   | 7.912  | 0.000   |
| 26 Endosulfan sulfate | 8.180 | 8.179 | 8.180 | 8.180 | 8.180 | 8.179 | 8.180 | 8.180    | 8.150-8.210   | 8.180  | 0.000   |
| 27 Endrin ketone      | 8.453 | 8.452 | 8.454 | 8.453 | 8.453 | 8.453 | 8.454 | 8.453    | 8.423-8.483   | 8.453  | 0.001   |
| 28 Decachlorobiphenyl | 9.355 | 9.354 | 9.355 | 9.355 | 9.355 | 9.355 | 9.356 | 9.355    | 9.325-9.385   | 9.355  | 0.000   |
| 29 Aroclor-1016       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 3.765    | 3.735-3.795   | +++++  | +++++   |
| 30 Aroclor-1221       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.881    | 4.851-4.911   | +++++  | +++++   |
| 31 Aroclor-1232       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.359    | 5.329-5.389   | +++++  | +++++   |
| 32 Aroclor-1242       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 3.765    | 3.735-3.795   | +++++  | +++++   |
| 33 Aroclor-1248       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.418    | 4.388-4.448   | +++++  | +++++   |
| 34 Aroclor-1254       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.257    | 5.227-5.287   | +++++  | +++++   |
| 35 Aroclor-1260       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.045    | 6.015-6.075   | +++++  | +++++   |
| 36 Aroclor-1262       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.301    | 8.271-8.331   | +++++  | +++++   |
| 37 Aroclor-1268       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.259   | 11.229-11.289 | +++++  | +++++   |
| 38 Toxaphene          | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.931    | 6.901-6.961   | +++++  | +++++   |
| 39 2,4-DDE            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.106    | 6.076-6.136   | +++++  | +++++   |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m  
Batch File: \\target\share\chem4\ecd6.i\20221214.b  
Inst ID: ecd6.i

| Compound                  | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | RT07  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 40 2,4-DDD                | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.681    | 6.651-6.711   | +++++  | +++++   |
| 41 2,4-DDT                | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.957    | 6.927-6.987   | +++++  | +++++   |
| 42 Hexachloroethane       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.774    | 1.744-1.804   | +++++  | +++++   |
| 43 Oxychlorane            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.014    | 5.984-6.044   | +++++  | +++++   |
| 44 trans-Nonachlor        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.397    | 6.367-6.427   | +++++  | +++++   |
| 45 cis-Nonachlor          | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.112    | 7.082-7.142   | +++++  | +++++   |
| 46 Mirex                  | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.082    | 8.052-8.112   | +++++  | +++++   |
| 47 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.156   | 20.126-20.186 | +++++  | +++++   |
| 48 Chlordane (NOS)        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.593    | 5.563-5.623   | +++++  | +++++   |
| 49 Trifluralin            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.319    | 6.289-6.349   | +++++  | +++++   |
| 50 Dacthal                | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.936    | 9.906-9.966   | +++++  | +++++   |
| 51 Oxadiazon              | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.891   | 11.861-11.921 | +++++  | +++++   |
| 52 Kelthane               | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.827   | 14.797-14.857 | +++++  | +++++   |
| 53 Chlorpyrifos           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.750    | 9.720-9.780   | +++++  | +++++   |
| 54 Methyl Parathion       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.107    | 9.077-9.137   | +++++  | +++++   |
| 55 Ethyl Parathion        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.251   | 10.221-10.281 | +++++  | +++++   |
| 56 Kepone                 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.588    | 6.558-6.618   | +++++  | +++++   |
| 57 1-Chloropyrene         | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.953    | 6.923-6.983   | +++++  | +++++   |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07
FILENAME: 22121405 22121406 22121407 22121408 22121409 22121410 22121411
INJ. DATE: 14-DEC-2022 14-DEC-2022 14-DEC-2022 14-DEC-2022 14-DEC-2022 14-DEC-2022 14-DEC-2022
INJ. TIME: 20:38 20:56 21:14 21:31 21:49 22:07 22:25

Table with 12 columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows include compounds like Hexachlorobutadiene, 1Bromo-2nitrobenzene, Hexabromobiphenyl, Tetrachloro-m-xylene, Hexachlorobenzene, alpha-BHC, gamma-BHC (Lindane), beta-BHC, delta-BHC, Heptachlor, Chlorthalonil, Aldrin, Heptachlor Epoxide a, Heptachlor epoxide b, cis-Chlordane, trans-Chlordane, and Endosulfan I.

Reviewer 1 \_\_\_\_\_ Date: \_\_\_\_\_
Reviewer 2 \_\_\_\_\_ Date: \_\_\_\_\_

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m  
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b  
Inst ID: ecd6.i

| Compound                  | RT01   | RT02   | RT03   | RT04   | RT05   | RT06   | RT07   | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 18 4,4'-DDE [C]           | 7.370  | 7.370  | 7.371  | 7.371  | 7.370  | 7.371  | 7.371  | 7.371    | 7.341-7.401   | 7.371  | 0.000   |
| 19 Dieldrin [C]           | 7.582  | 7.582  | 7.583  | 7.583  | 7.582  | 7.582  | 7.583  | 7.583    | 7.553-7.613   | 7.582  | 0.000   |
| 20 Endrin [C]             | 7.906  | 7.906  | 7.906  | 7.907  | 7.907  | 7.907  | 7.907  | 7.907    | 7.877-7.937   | 7.907  | 0.000   |
| 21 4,4'-DDD [C]           | 7.976  | 7.976  | 7.976  | 7.977  | 7.976  | 7.976  | 7.976  | 7.976    | 7.946-8.006   | 7.976  | 0.000   |
| 22 Endosulfan II [C]      | 8.117  | 8.116  | 8.117  | 8.117  | 8.117  | 8.117  | 8.117  | 8.117    | 8.087-8.147   | 8.117  | 0.000   |
| 23 4,4'-DDT [C]           | 8.294  | 8.294  | 8.294  | 8.295  | 8.295  | 8.295  | 8.295  | 8.295    | 8.265-8.325   | 8.295  | 0.000   |
| 24 Endrin aldehyde [C]    | 8.448  | 8.447  | 8.448  | 8.448  | 8.448  | 8.448  | 8.448  | 8.448    | 8.418-8.478   | 8.448  | 0.000   |
| 25 Endosulfan sulfate [C] | 8.715  | 8.714  | 8.715  | 8.715  | 8.715  | 8.715  | 8.715  | 8.715    | 8.685-8.745   | 8.715  | 0.000   |
| 26 Methoxychlor [C]       | 8.935  | 8.934  | 8.935  | 8.936  | 8.935  | 8.935  | 8.936  | 8.936    | 8.906-8.966   | 8.935  | 0.001   |
| 27 Endrin ketone [C]      | 9.239  | 9.239  | 9.239  | 9.240  | 9.239  | 9.239  | 9.240  | 9.240    | 9.210-9.270   | 9.239  | 0.000   |
| 28 Decachlorobiphenyl [C] | 10.466 | 10.465 | 10.466 | 10.466 | 10.466 | 10.466 | 10.467 | 10.467   | 10.437-10.497 | 10.466 | 0.001   |
| 29 Aroclor-1016           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 4.180    | 4.150-4.210   | +++++  | +++++   |
| 30 Aroclor-1221           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 5.051    | 5.021-5.081   | +++++  | +++++   |
| 31 Aroclor-1232           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 5.171    | 5.141-5.201   | +++++  | +++++   |
| 32 Aroclor-1242           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 4.970    | 4.940-5.000   | +++++  | +++++   |
| 33 Aroclor-1248           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 5.285    | 5.255-5.315   | +++++  | +++++   |
| 34 Aroclor-1254           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 5.968    | 5.938-5.998   | +++++  | +++++   |
| 35 Aroclor-1260           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 6.767    | 6.737-6.797   | +++++  | +++++   |
| 36 Aroclor-1262           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 9.714    | 9.684-9.744   | +++++  | +++++   |
| 37 Aroclor-1268           | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 11.791   | 11.761-11.821 | +++++  | +++++   |
| 38 Toxaphene [C]          | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 7.126    | 7.096-7.156   | +++++  | +++++   |
| 39 2,4-DDE [C]            | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 7.036    | 7.006-7.066   | +++++  | +++++   |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m  
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b  
Inst ID: ecd6.i

| Compound                  | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | RT07  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 40 2,4-DDD [C]            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.591    | 7.561-7.621   | +++++  | +++++   |
| 41 2,4-DDT [C]            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.913    | 7.883-7.943   | +++++  | +++++   |
| 42 Hexachloroethane [C]   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.676    | 1.646-1.706   | +++++  | +++++   |
| 43 Oxychlorane [C]        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.741    | 6.711-6.771   | +++++  | +++++   |
| 44 trans-Nonachlor [C]    | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.155    | 7.125-7.185   | +++++  | +++++   |
| 45 cis-Nonachlor [C]      | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.975    | 7.945-8.005   | +++++  | +++++   |
| 46 Mirex [C]              | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.223    | 9.193-9.253   | +++++  | +++++   |
| 47 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 21.499   | 21.469-21.529 | +++++  | +++++   |
| 48 Chlordane (NOS) [C]    | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.612    | 5.582-5.642   | +++++  | +++++   |
| 49 Trifluralin            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.871    | 4.841-4.901   | +++++  | +++++   |
| 50 Dacthal                | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.640    | 6.610-6.670   | +++++  | +++++   |
| 51 Oxadiazon              | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.115    | 8.085-8.145   | +++++  | +++++   |
| 52 Kelthane               | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.286   | 11.256-11.316 | +++++  | +++++   |
| 53 Chlorpyrifos           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.527    | 6.497-6.557   | +++++  | +++++   |
| 54 Methyl Parathion       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.342    | 6.312-6.372   | +++++  | +++++   |
| 55 Ethyl Parathion        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.841    | 6.811-6.871   | +++++  | +++++   |
| 56 Kepone [C]             | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.336    | 7.306-7.366   | +++++  | +++++   |
| 57 1-Chloropyrene         | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.745    | 7.715-7.775   | +++++  | +++++   |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m  
Batch File: \\target\share\chem4\ecd6.i\20221214.b  
Inst ID: ecd6.i

| ID:        | RT01        | RT02        | RT03        | RT04        | RT05        | RT06        | RT07        |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| FILENAME:  | 22121412    | 22121413    | 22121414    | 22121415    | 22121416    | 22121417    | 22121418    |
| INJ. DATE: | 14-DEC-2022 | 14-DEC-2022 | 14-DEC-2022 | 14-DEC-2022 | 14-DEC-2022 | 15-DEC-2022 | 15-DEC-2022 |
| INJ. TIME: | 22:43       | 23:01       | 23:19       | 23:36       | 23:54       | 00:12       | 00:30       |

| Compound                  | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | RT07  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 1 Hexachlorobutadiene     | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 2.324    | 2.294-2.354   | +++++  | +++++   |
| * 2 1Bromo-2nitrobenzene  | 3.151 | 3.151 | 3.151 | 3.151 | 3.151 | 3.151 | 3.151 | 3.151    | 3.121-3.181   | 3.151  | 0.000   |
| * 3 Hexabromobiphenyl     | 9.504 | 9.504 | 9.504 | 9.504 | 9.504 | 9.504 | 9.504 | 9.505    | 9.475-9.535   | 9.504  | 0.000   |
| \$ 4 Tetrachloro-m-xylene | +++++ | +++++ | +++++ | +++++ | 3.800 | 3.800 | 3.800 | 3.828    | 3.798-3.858   | 3.800  | 0.000   |
| 5 Hexachlorobenzene       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.182    | 4.152-4.212   | +++++  | +++++   |
| 6 alpha-BHC               | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.342    | 4.312-4.372   | +++++  | +++++   |
| 7 gamma-BHC (Lindane)     | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.645    | 4.615-4.675   | +++++  | +++++   |
| 8 beta-BHC                | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.726    | 4.696-4.756   | +++++  | +++++   |
| 9 delta-BHC               | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.909    | 4.879-4.939   | +++++  | +++++   |
| 10 Heptachlor             | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.130    | 5.100-5.160   | +++++  | +++++   |
| 11 Aldrin                 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.454    | 5.424-5.484   | +++++  | +++++   |
| 12 Chlorthalonil          | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 13.627   | 13.597-13.657 | +++++  | +++++   |
| 13 Heptachlor Epoxide a   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.869   | 10.839-10.899 | +++++  | +++++   |
| 14 Heptachlor epoxide b   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.130    | 6.100-6.160   | +++++  | +++++   |
| 15 cis-Chlordane          | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.417    | 6.387-6.447   | +++++  | +++++   |
| 16 trans-Chlordane        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.271    | 6.241-6.301   | +++++  | +++++   |
| 17 Endosulfan I           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.572    | 6.542-6.602   | +++++  | +++++   |

Reviewer 1 \_\_\_\_\_ Date: \_\_\_\_\_  
Reviewer 2 \_\_\_\_\_ Date: \_\_\_\_\_



ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m  
Batch File: \\target\share\chem4\ecd6.i\20221214.b  
Inst ID: ecd6.i

| Compound              | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | RT07  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 18 4,4'-DDE           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.489    | 6.459-6.519   | +++++  | +++++   |
| 19 Dieldrin           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.831    | 6.801-6.861   | +++++  | +++++   |
| 20 Endrin             | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.081    | 7.051-7.111   | +++++  | +++++   |
| 21 4,4'-DDD           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.135    | 7.105-7.165   | +++++  | +++++   |
| 22 Endosulfan II      | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.317    | 7.287-7.347   | +++++  | +++++   |
| 23 4,4'-DDT           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.427    | 7.397-7.457   | +++++  | +++++   |
| 24 Endrin aldehyde    | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.746    | 7.716-7.776   | +++++  | +++++   |
| 25 Methoxychlor       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.912    | 7.882-7.942   | +++++  | +++++   |
| 26 Endosulfan sulfate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.180    | 8.150-8.210   | +++++  | +++++   |
| 27 Endrin ketone      | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.453    | 8.423-8.483   | +++++  | +++++   |
| 28 Decachlorobiphenyl | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.355    | 9.325-9.385   | +++++  | +++++   |
| 29 Aroclor-1016       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 3.765    | 3.735-3.795   | +++++  | +++++   |
| 30 Aroclor-1221       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.881    | 4.851-4.911   | +++++  | +++++   |
| 31 Aroclor-1232       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.359    | 5.329-5.389   | +++++  | +++++   |
| 32 Aroclor-1242       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 3.765    | 3.735-3.795   | +++++  | +++++   |
| 33 Aroclor-1248       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.418    | 4.388-4.448   | +++++  | +++++   |
| 34 Aroclor-1254       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.257    | 5.227-5.287   | +++++  | +++++   |
| 35 Aroclor-1260       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.045    | 6.015-6.075   | +++++  | +++++   |
| 36 Aroclor-1262       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.301    | 8.271-8.331   | +++++  | +++++   |
| 37 Aroclor-1268       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.259   | 11.229-11.289 | +++++  | +++++   |
| 38 Toxaphene          | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.931    | 6.901-6.961   | +++++  | +++++   |
| 39 2,4-DDE            | 6.106 | 6.106 | 6.106 | 6.106 | 6.106 | 6.106 | 6.106 | 6.106    | 6.076-6.136   | 6.106  | 0.000   |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m  
Batch File: \\target\share\chem4\ecd6.i\20221214.b  
Inst ID: ecd6.i

| Compound                  | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | RT07  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 40 2,4-DDD                | 6.681 | 6.681 | 6.681 | 6.681 | 6.681 | 6.681 | 6.680 | 6.681    | 6.651-6.711   | 6.681  | 0.000   |
| 41 2,4-DDT                | 6.956 | 6.957 | 6.956 | 6.956 | 6.957 | 6.956 | 6.956 | 6.957    | 6.927-6.987   | 6.956  | 0.000   |
| 42 Hexachloroethane       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.774    | 1.744-1.804   | +++++  | +++++   |
| 43 Oxychlorane            | 6.014 | 6.015 | 6.014 | 6.015 | 6.014 | 6.014 | 6.014 | 6.014    | 5.984-6.044   | 6.015  | 0.000   |
| 44 trans-Nonachlor        | 6.397 | 6.398 | 6.398 | 6.398 | 6.397 | 6.397 | 6.397 | 6.397    | 6.367-6.427   | 6.398  | 0.000   |
| 45 cis-Nonachlor          | 7.112 | 7.112 | 7.111 | 7.112 | 7.112 | 7.112 | 7.112 | 7.112    | 7.082-7.142   | 7.112  | 0.000   |
| 46 Mirex                  | 8.082 | 8.082 | 8.082 | 8.082 | 8.082 | 8.082 | 8.082 | 8.082    | 8.052-8.112   | 8.082  | 0.000   |
| 47 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.156   | 20.126-20.186 | +++++  | +++++   |
| 48 Chlordane (NOS)        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.593    | 5.563-5.623   | +++++  | +++++   |
| 49 Trifluralin            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.319    | 6.289-6.349   | +++++  | +++++   |
| 50 Dacthal                | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.936    | 9.906-9.966   | +++++  | +++++   |
| 51 Oxadiazon              | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.891   | 11.861-11.921 | +++++  | +++++   |
| 52 Kelthane               | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.827   | 14.797-14.857 | +++++  | +++++   |
| 53 Chlorpyrifos           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.750    | 9.720-9.780   | +++++  | +++++   |
| 54 Methyl Parathion       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.107    | 9.077-9.137   | +++++  | +++++   |
| 55 Ethyl Parathion        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.251   | 10.221-10.281 | +++++  | +++++   |
| 56 Kepone                 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.588    | 6.558-6.618   | +++++  | +++++   |
| 57 1-Chloropyrene         | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.953    | 6.923-6.983   | +++++  | +++++   |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07
FILENAME: 22121412 22121413 22121414 22121415 22121416 22121417 22121418
INJ. DATE: 14-DEC-2022 14-DEC-2022 14-DEC-2022 14-DEC-2022 14-DEC-2022 15-DEC-2022 15-DEC-2022
INJ. TIME: 22:43 23:01 23:19 23:36 23:54 00:12 00:30

Table with 12 columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows list various compounds like Hexachlorobutadiene, Bromo-2nitrobenzene, Hexabromobiphenyl, etc., with their respective retention times and quality indicators.

Reviewer 1 \_\_\_\_\_ Date: \_\_\_\_\_
Reviewer 2 \_\_\_\_\_ Date: \_\_\_\_\_

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m  
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b  
Inst ID: ecd6.i

| Compound                  | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | RT07   | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|--------|----------|---------------|--------|---------|
| 18 4,4'-DDE [C]           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++  | 7.371    | 7.341-7.401   | +++++  | +++++   |
| 19 Dieldrin [C]           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++  | 7.583    | 7.553-7.613   | +++++  | +++++   |
| 20 Endrin [C]             | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++  | 7.907    | 7.877-7.937   | +++++  | +++++   |
| 21 4,4'-DDD [C]           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++  | 7.976    | 7.946-8.006   | +++++  | +++++   |
| 22 Endosulfan II [C]      | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++  | 8.117    | 8.087-8.147   | +++++  | +++++   |
| 23 4,4'-DDT [C]           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++  | 8.295    | 8.265-8.325   | +++++  | +++++   |
| 24 Endrin aldehyde [C]    | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++  | 8.448    | 8.418-8.478   | +++++  | +++++   |
| 25 Endosulfan sulfate [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++  | 8.715    | 8.685-8.745   | +++++  | +++++   |
| 26 Methoxychlor [C]       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++  | 8.936    | 8.906-8.966   | +++++  | +++++   |
| 27 Endrin ketone [C]      | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++  | 9.240    | 9.210-9.270   | +++++  | +++++   |
| 28 Decachlorobiphenyl [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.471 | 10.467   | 10.437-10.497 | 10.471 | 0.000   |
| 29 Aroclor-1016           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++  | 4.180    | 4.150-4.210   | +++++  | +++++   |
| 30 Aroclor-1221           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++  | 5.051    | 5.021-5.081   | +++++  | +++++   |
| 31 Aroclor-1232           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++  | 5.171    | 5.141-5.201   | +++++  | +++++   |
| 32 Aroclor-1242           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++  | 4.970    | 4.940-5.000   | +++++  | +++++   |
| 33 Aroclor-1248           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++  | 5.285    | 5.255-5.315   | +++++  | +++++   |
| 34 Aroclor-1254           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++  | 5.968    | 5.938-5.998   | +++++  | +++++   |
| 35 Aroclor-1260           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++  | 6.767    | 6.737-6.797   | +++++  | +++++   |
| 36 Aroclor-1262           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++  | 9.714    | 9.684-9.744   | +++++  | +++++   |
| 37 Aroclor-1268           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++  | 11.791   | 11.761-11.821 | +++++  | +++++   |
| 38 Toxaphene [C]          | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++  | 7.126    | 7.096-7.156   | +++++  | +++++   |
| 39 2,4-DDE [C]            | 7.036 | 7.036 | 7.035 | 7.036 | 7.036 | 7.036 | 7.036  | 7.036    | 7.006-7.066   | 7.036  | 0.000   |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m  
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b  
Inst ID: ecd6.i

| Compound                  | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | RT07  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 40 2,4-DDD [C]            | 7.591 | 7.590 | 7.590 | 7.591 | 7.590 | 7.591 | 7.591 | 7.591    | 7.561-7.621   | 7.591  | 0.000   |
| 41 2,4-DDT [C]            | 7.913 | 7.914 | 7.913 | 7.913 | 7.913 | 7.914 | 7.913 | 7.913    | 7.883-7.943   | 7.913  | 0.000   |
| 42 Hexachloroethane [C]   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.676    | 1.646-1.706   | +++++  | +++++   |
| 43 Oxychlorane [C]        | 6.741 | 6.741 | 6.741 | 6.741 | 6.741 | 6.741 | 6.741 | 6.741    | 6.711-6.771   | 6.741  | 0.000   |
| 44 trans-Nonachlor [C]    | 7.154 | 7.154 | 7.154 | 7.155 | 7.154 | 7.155 | 7.155 | 7.155    | 7.125-7.185   | 7.154  | 0.000   |
| 45 cis-Nonachlor [C]      | 7.975 | 7.975 | 7.975 | 7.975 | 7.975 | 7.975 | 7.975 | 7.975    | 7.945-8.005   | 7.975  | 0.000   |
| 46 Mirex [C]              | 9.223 | 9.223 | 9.222 | 9.223 | 9.222 | 9.223 | 9.223 | 9.223    | 9.193-9.253   | 9.223  | 0.000   |
| 47 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 21.499   | 21.469-21.529 | +++++  | +++++   |
| 48 Chlordane (NOS) [C]    | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.612    | 5.582-5.642   | +++++  | +++++   |
| 49 Trifluralin            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.871    | 4.841-4.901   | +++++  | +++++   |
| 50 Dacthal                | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.640    | 6.610-6.670   | +++++  | +++++   |
| 51 Oxadiazon              | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.115    | 8.085-8.145   | +++++  | +++++   |
| 52 Kelthane               | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.286   | 11.256-11.316 | +++++  | +++++   |
| 53 Chlorpyrifos           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.527    | 6.497-6.557   | +++++  | +++++   |
| 54 Methyl Parathion       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.342    | 6.312-6.372   | +++++  | +++++   |
| 55 Ethyl Parathion        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.841    | 6.811-6.871   | +++++  | +++++   |
| 56 Kepone [C]             | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.336    | 7.306-7.366   | +++++  | +++++   |
| 57 1-Chloropyrene         | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.745    | 7.715-7.775   | +++++  | +++++   |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07
FILENAME: 22121421 22121422 22121423 22121424 22121425 22121426 22121427
INJ. DATE: 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022
INJ. TIME: 01:24 01:42 01:59 02:17 02:35 02:53 03:11

Table with 12 columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows list various compounds like Hexachlorobutadiene, Bromo-2nitrobenzene, Hexabromobiphenyl, etc., with their respective retention times and standard deviations.

Reviewer 1 \_\_\_\_\_ Date: \_\_\_\_\_
Reviewer 2 \_\_\_\_\_ Date: \_\_\_\_\_

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m  
Batch File: \\target\share\chem4\ecd6.i\20221214.b  
Inst ID: ecd6.i

| Compound              | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | RT07  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 18 4,4'-DDE           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.489    | 6.459-6.519   | +++++  | +++++   |
| 19 Dieldrin           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.831    | 6.801-6.861   | +++++  | +++++   |
| 20 Endrin             | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.081    | 7.051-7.111   | +++++  | +++++   |
| 21 4,4'-DDD           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.135    | 7.105-7.165   | +++++  | +++++   |
| 22 Endosulfan II      | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.317    | 7.287-7.347   | +++++  | +++++   |
| 23 4,4'-DDT           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.427    | 7.397-7.457   | +++++  | +++++   |
| 24 Endrin aldehyde    | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.746    | 7.716-7.776   | +++++  | +++++   |
| 25 Methoxychlor       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.912    | 7.882-7.942   | +++++  | +++++   |
| 26 Endosulfan sulfate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.180    | 8.150-8.210   | +++++  | +++++   |
| 27 Endrin ketone      | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.453    | 8.423-8.483   | +++++  | +++++   |
| 28 Decachlorobiphenyl | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.380 | 9.355    | 9.325-9.385   | 9.380  | 0.000   |
| 29 Aroclor-1016       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 3.765    | 3.735-3.795   | +++++  | +++++   |
| 30 Aroclor-1221       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.881    | 4.851-4.911   | +++++  | +++++   |
| 31 Aroclor-1232       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.359    | 5.329-5.389   | +++++  | +++++   |
| 32 Aroclor-1242       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 3.765    | 3.735-3.795   | +++++  | +++++   |
| 33 Aroclor-1248       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.418    | 4.388-4.448   | +++++  | +++++   |
| 34 Aroclor-1254       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.257    | 5.227-5.287   | +++++  | +++++   |
| 35 Aroclor-1260       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.045    | 6.015-6.075   | +++++  | +++++   |
| 36 Aroclor-1262       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.301    | 8.271-8.331   | +++++  | +++++   |
| 37 Aroclor-1268       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.259   | 11.229-11.289 | +++++  | +++++   |
| 38 Toxaphene          | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.931    | 6.901-6.961   | +++++  | +++++   |
| 39 2,4-DDE            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.106    | 6.076-6.136   | +++++  | +++++   |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m  
Batch File: \\target\share\chem4\ecd6.i\20221214.b  
Inst ID: ecd6.i

| Compound                  | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | RT07  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 40 2,4-DDD                | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.681    | 6.651-6.711   | +++++  | +++++   |
| 41 2,4-DDT                | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.957    | 6.927-6.987   | +++++  | +++++   |
| 42 Hexachloroethane       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.774    | 1.744-1.804   | +++++  | +++++   |
| 43 Oxychlorane            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.014    | 5.984-6.044   | +++++  | +++++   |
| 44 trans-Nonachlor        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.397    | 6.367-6.427   | +++++  | +++++   |
| 45 cis-Nonachlor          | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.112    | 7.082-7.142   | +++++  | +++++   |
| 46 Mirex                  | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.082    | 8.052-8.112   | +++++  | +++++   |
| 47 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.156   | 20.126-20.186 | +++++  | +++++   |
| 48 Chlordane (NOS)        | 5.593 | 5.593 | 5.593 | 5.593 | 5.593 | 5.592 | 5.593 | 5.593    | 5.563-5.623   | 5.593  | 0.000   |
| 49 Trifluralin            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.319    | 6.289-6.349   | +++++  | +++++   |
| 50 Dacthal                | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.936    | 9.906-9.966   | +++++  | +++++   |
| 51 Oxadiazon              | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.891   | 11.861-11.921 | +++++  | +++++   |
| 52 Kelthane               | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.827   | 14.797-14.857 | +++++  | +++++   |
| 53 Chlorpyrifos           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.750    | 9.720-9.780   | +++++  | +++++   |
| 54 Methyl Parathion       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.107    | 9.077-9.137   | +++++  | +++++   |
| 55 Ethyl Parathion        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.251   | 10.221-10.281 | +++++  | +++++   |
| 56 Kepone                 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.588    | 6.558-6.618   | +++++  | +++++   |
| 57 1-Chloropyrene         | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.953    | 6.923-6.983   | +++++  | +++++   |



ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07
FILENAME: 22121421 22121422 22121423 22121424 22121425 22121426 22121427
INJ. DATE: 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022
INJ. TIME: 01:24 01:42 01:59 02:17 02:35 02:53 03:11

Table with 12 columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows list various compounds like Hexachlorobutadiene, Bromo-2nitrobenzene, Hexabromobiphenyl, etc., with their respective retention times and standard deviations.

Reviewer 1 \_\_\_\_\_ Date: \_\_\_\_\_
Reviewer 2 \_\_\_\_\_ Date: \_\_\_\_\_

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m  
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b  
Inst ID: ecd6.i

| Compound                  | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | RT07  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 18 4,4'-DDE [C]           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.371    | 7.341-7.401   | +++++  | +++++   |
| 19 Dieldrin [C]           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.583    | 7.553-7.613   | +++++  | +++++   |
| 20 Endrin [C]             | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.907    | 7.877-7.937   | +++++  | +++++   |
| 21 4,4'-DDD [C]           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.976    | 7.946-8.006   | +++++  | +++++   |
| 22 Endosulfan II [C]      | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.117    | 8.087-8.147   | +++++  | +++++   |
| 23 4,4'-DDT [C]           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.295    | 8.265-8.325   | +++++  | +++++   |
| 24 Endrin aldehyde [C]    | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.448    | 8.418-8.478   | +++++  | +++++   |
| 25 Endosulfan sulfate [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.715    | 8.685-8.745   | +++++  | +++++   |
| 26 Methoxychlor [C]       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.936    | 8.906-8.966   | +++++  | +++++   |
| 27 Endrin ketone [C]      | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.240    | 9.210-9.270   | +++++  | +++++   |
| 28 Decachlorobiphenyl [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.467   | 10.437-10.497 | +++++  | +++++   |
| 29 Aroclor-1016           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.180    | 4.150-4.210   | +++++  | +++++   |
| 30 Aroclor-1221           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.051    | 5.021-5.081   | +++++  | +++++   |
| 31 Aroclor-1232           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.171    | 5.141-5.201   | +++++  | +++++   |
| 32 Aroclor-1242           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.970    | 4.940-5.000   | +++++  | +++++   |
| 33 Aroclor-1248           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.285    | 5.255-5.315   | +++++  | +++++   |
| 34 Aroclor-1254           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.968    | 5.938-5.998   | +++++  | +++++   |
| 35 Aroclor-1260           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.767    | 6.737-6.797   | +++++  | +++++   |
| 36 Aroclor-1262           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.714    | 9.684-9.744   | +++++  | +++++   |
| 37 Aroclor-1268           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.791   | 11.761-11.821 | +++++  | +++++   |
| 38 Toxaphene [C]          | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.126    | 7.096-7.156   | +++++  | +++++   |
| 39 2,4-DDE [C]            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.036    | 7.006-7.066   | +++++  | +++++   |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m  
 Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b  
 Inst ID: ecd6.i

| Compound                  | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | RT07  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 40 2,4-DDD [C]            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.591    | 7.561-7.621   | +++++  | +++++   |
| 41 2,4-DDT [C]            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.913    | 7.883-7.943   | +++++  | +++++   |
| 42 Hexachloroethane [C]   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.676    | 1.646-1.706   | +++++  | +++++   |
| 43 Oxychlorane [C]        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.741    | 6.711-6.771   | +++++  | +++++   |
| 44 trans-Nonachlor [C]    | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.155    | 7.125-7.185   | +++++  | +++++   |
| 45 cis-Nonachlor [C]      | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.975    | 7.945-8.005   | +++++  | +++++   |
| 46 Mirex [C]              | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.223    | 9.193-9.253   | +++++  | +++++   |
| 47 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 21.499   | 21.469-21.529 | +++++  | +++++   |
| 48 Chlordane (NOS) [C]    | 5.612 | 5.612 | 5.612 | 5.611 | 5.612 | 5.612 | 5.612 | 5.612    | 5.582-5.642   | 5.612  | 0.000   |
| 49 Trifluralin            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.871    | 4.841-4.901   | +++++  | +++++   |
| 50 Dacthal                | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.640    | 6.610-6.670   | +++++  | +++++   |
| 51 Oxadiazon              | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.115    | 8.085-8.145   | +++++  | +++++   |
| 52 Kelthane               | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.286   | 11.256-11.316 | +++++  | +++++   |
| 53 Chlorpyrifos           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.527    | 6.497-6.557   | +++++  | +++++   |
| 54 Methyl Parathion       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.342    | 6.312-6.372   | +++++  | +++++   |
| 55 Ethyl Parathion        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.841    | 6.811-6.871   | +++++  | +++++   |
| 56 Kepone [C]             | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.336    | 7.306-7.366   | +++++  | +++++   |
| 57 1-Chloropyrene         | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.745    | 7.715-7.775   | +++++  | +++++   |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m  
Batch File: \\target\share\chem4\ecd6.i\20221214.b  
Inst ID: ecd6.i

| ID:        | RT01        | RT02        | RT03        | RT04        | RT05        | RT06        | RT07        |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| FILENAME:  | 22121428    | 22121429    | 22121430    | 22121431    | 22121432    | 22121433    | 22121434    |
| INJ. DATE: | 15-DEC-2022 | 15-DEC-2022 | 15-DEC-2022 | 15-DEC-2022 | 15-DEC-2022 | 15-DEC-2022 | 15-DEC-2022 |
| INJ. TIME: | 03:29       | 03:46       | 04:04       | 04:22       | 04:40       | 04:58       | 05:16       |

| Compound                  | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | RT07  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 1 Hexachlorobutadiene     | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 2.324    | 2.294-2.354   | +++++  | +++++   |
| * 2 1Bromo-2nitrobenzene  | 3.151 | 3.151 | 3.151 | 3.151 | 3.151 | 3.151 | 3.151 | 3.151    | 3.121-3.181   | 3.151  | 0.000   |
| * 3 Hexabromobiphenyl     | 9.505 | 9.504 | 9.504 | 9.504 | 9.505 | 9.504 | 9.504 | 9.505    | 9.475-9.535   | 9.504  | 0.000   |
| \$ 4 Tetrachloro-m-xylene | 3.828 | 3.828 | 3.828 | 3.828 | 3.828 | 3.828 | 3.828 | 3.828    | 3.798-3.858   | 3.828  | 0.000   |
| 5 Hexachlorobenzene       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.182    | 4.152-4.212   | +++++  | +++++   |
| 6 alpha-BHC               | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.342    | 4.312-4.372   | +++++  | +++++   |
| 7 gamma-BHC (Lindane)     | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.645    | 4.615-4.675   | +++++  | +++++   |
| 8 beta-BHC                | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.726    | 4.696-4.756   | +++++  | +++++   |
| 9 delta-BHC               | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.909    | 4.879-4.939   | +++++  | +++++   |
| 10 Heptachlor             | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.130    | 5.100-5.160   | +++++  | +++++   |
| 11 Aldrin                 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.454    | 5.424-5.484   | +++++  | +++++   |
| 12 Chlorthalonil          | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 13.627   | 13.597-13.657 | +++++  | +++++   |
| 13 Heptachlor Epoxide a   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.869   | 10.839-10.899 | +++++  | +++++   |
| 14 Heptachlor epoxide b   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.130    | 6.100-6.160   | +++++  | +++++   |
| 15 cis-Chlordane          | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.417    | 6.387-6.447   | +++++  | +++++   |
| 16 trans-Chlordane        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.271    | 6.241-6.301   | +++++  | +++++   |
| 17 Endosulfan I           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.572    | 6.542-6.602   | +++++  | +++++   |

Reviewer 1 \_\_\_\_\_ Date: \_\_\_\_\_  
Reviewer 2 \_\_\_\_\_ Date: \_\_\_\_\_

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m  
Batch File: \\target\share\chem4\ecd6.i\20221214.b  
Inst ID: ecd6.i

| Compound              | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | RT07  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 18 4,4'-DDE           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.489    | 6.459-6.519   | +++++  | +++++   |
| 19 Dieldrin           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.831    | 6.801-6.861   | +++++  | +++++   |
| 20 Endrin             | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.081    | 7.051-7.111   | +++++  | +++++   |
| 21 4,4'-DDD           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.135    | 7.105-7.165   | +++++  | +++++   |
| 22 Endosulfan II      | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.317    | 7.287-7.347   | +++++  | +++++   |
| 23 4,4'-DDT           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.427    | 7.397-7.457   | +++++  | +++++   |
| 24 Endrin aldehyde    | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.746    | 7.716-7.776   | +++++  | +++++   |
| 25 Methoxychlor       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.912    | 7.882-7.942   | +++++  | +++++   |
| 26 Endosulfan sulfate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.180    | 8.150-8.210   | +++++  | +++++   |
| 27 Endrin ketone      | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.453    | 8.423-8.483   | +++++  | +++++   |
| 28 Decachlorobiphenyl | 9.355 | 9.355 | 9.355 | 9.355 | 9.356 | 9.356 | 9.355 | 9.355    | 9.325-9.385   | 9.356  | 0.000   |
| 29 Aroclor-1016       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 3.765    | 3.735-3.795   | +++++  | +++++   |
| 30 Aroclor-1221       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.881    | 4.851-4.911   | +++++  | +++++   |
| 31 Aroclor-1232       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.359    | 5.329-5.389   | +++++  | +++++   |
| 32 Aroclor-1242       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 3.765    | 3.735-3.795   | +++++  | +++++   |
| 33 Aroclor-1248       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.418    | 4.388-4.448   | +++++  | +++++   |
| 34 Aroclor-1254       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.257    | 5.227-5.287   | +++++  | +++++   |
| 35 Aroclor-1260       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.045    | 6.015-6.075   | +++++  | +++++   |
| 36 Aroclor-1262       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.301    | 8.271-8.331   | +++++  | +++++   |
| 37 Aroclor-1268       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.259   | 11.229-11.289 | +++++  | +++++   |
| 38 Toxaphene          | 6.931 | 6.931 | 6.931 | 6.931 | 6.931 | 6.931 | 6.931 | 6.931    | 6.901-6.961   | 6.931  | 0.000   |
| 39 2,4-DDE            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.106    | 6.076-6.136   | +++++  | +++++   |

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m  
 Batch File: \\target\share\chem4\ecd6.i\20221214.b  
 Inst ID: ecd6.i

| Compound                  | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | RT07  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 40 2,4-DDD                | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.681    | 6.651-6.711   | +++++  | +++++   |
| 41 2,4-DDT                | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.957    | 6.927-6.987   | +++++  | +++++   |
| 42 Hexachloroethane       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.774    | 1.744-1.804   | +++++  | +++++   |
| 43 Oxychlorane            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.014    | 5.984-6.044   | +++++  | +++++   |
| 44 trans-Nonachlor        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.397    | 6.367-6.427   | +++++  | +++++   |
| 45 cis-Nonachlor          | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.112    | 7.082-7.142   | +++++  | +++++   |
| 46 Mirex                  | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.082    | 8.052-8.112   | +++++  | +++++   |
| 47 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.156   | 20.126-20.186 | +++++  | +++++   |
| 48 Chlordane (NOS)        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.593    | 5.563-5.623   | +++++  | +++++   |
| 49 Trifluralin            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.319    | 6.289-6.349   | +++++  | +++++   |
| 50 Dacthal                | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.936    | 9.906-9.966   | +++++  | +++++   |
| 51 Oxadiazon              | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.891   | 11.861-11.921 | +++++  | +++++   |
| 52 Kelthane               | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.827   | 14.797-14.857 | +++++  | +++++   |
| 53 Chlorpyrifos           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.750    | 9.720-9.780   | +++++  | +++++   |
| 54 Methyl Parathion       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.107    | 9.077-9.137   | +++++  | +++++   |
| 55 Ethyl Parathion        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.251   | 10.221-10.281 | +++++  | +++++   |
| 56 Kepone                 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.588    | 6.558-6.618   | +++++  | +++++   |
| 57 1-Chloropyrene         | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.953    | 6.923-6.983   | +++++  | +++++   |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07
FILENAME: 22121428 22121429 22121430 22121431 22121432 22121433 22121434
INJ. DATE: 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022
INJ. TIME: 03:29 03:46 04:04 04:22 04:40 04:58 05:16

Table with 12 columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows list various compounds like Hexachlorobutadiene, Bromo-2nitrobenzene, Hexabromobiphenyl, etc., with their respective retention times and standard deviations.

Reviewer 1 \_\_\_\_\_ Date: \_\_\_\_\_
Reviewer 2 \_\_\_\_\_ Date: \_\_\_\_\_

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m  
 Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b  
 Inst ID: ecd6.i

| Compound                     | RT01   | RT02   | RT03   | RT04   | RT05   | RT06   | RT07   | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 18 4,4'-DDE [C]              | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 7.371    | 7.341-7.401   | +++++  | +++++   |
| 19 Dieldrin [C]              | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 7.583    | 7.553-7.613   | +++++  | +++++   |
| 20 Endrin [C]                | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 7.907    | 7.877-7.937   | +++++  | +++++   |
| 21 4,4'-DDD [C]              | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 7.976    | 7.946-8.006   | +++++  | +++++   |
| 22 Endosulfan II [C]         | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 8.117    | 8.087-8.147   | +++++  | +++++   |
| 23 4,4'-DDT [C]              | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 8.295    | 8.265-8.325   | +++++  | +++++   |
| 24 Endrin aldehyde [C]       | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 8.448    | 8.418-8.478   | +++++  | +++++   |
| 25 Endosulfan sulfate [C]    | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 8.715    | 8.685-8.745   | +++++  | +++++   |
| 26 Methoxychlor [C]          | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 8.936    | 8.906-8.966   | +++++  | +++++   |
| 27 Endrin ketone [C]         | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 9.240    | 9.210-9.270   | +++++  | +++++   |
| \$ 28 Decachlorobiphenyl [C] | 10.467 | 10.467 | 10.467 | 10.466 | 10.466 | 10.466 | 10.467 | 10.467   | 10.437-10.497 | 10.466 | 0.000   |
| 29 Aroclor-1016              | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 4.180    | 4.150-4.210   | +++++  | +++++   |
| 30 Aroclor-1221              | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 5.051    | 5.021-5.081   | +++++  | +++++   |
| 31 Aroclor-1232              | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 5.171    | 5.141-5.201   | +++++  | +++++   |
| 32 Aroclor-1242              | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 4.970    | 4.940-5.000   | +++++  | +++++   |
| 33 Aroclor-1248              | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 5.285    | 5.255-5.315   | +++++  | +++++   |
| 34 Aroclor-1254              | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 5.968    | 5.938-5.998   | +++++  | +++++   |
| 35 Aroclor-1260              | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 6.767    | 6.737-6.797   | +++++  | +++++   |
| 36 Aroclor-1262              | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 9.714    | 9.684-9.744   | +++++  | +++++   |
| 37 Aroclor-1268              | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 11.791   | 11.761-11.821 | +++++  | +++++   |
| 38 Toxaphene [C]             | 7.125  | 7.125  | 7.125  | 7.125  | 7.126  | 7.126  | 7.126  | 7.126    | 7.096-7.156   | 7.125  | 0.000   |
| 39 2,4-DDE [C]               | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | +++++  | 7.036    | 7.006-7.066   | +++++  | +++++   |



ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m  
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b  
Inst ID: ecd6.i

| Compound                  | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | RT07  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 40 2,4-DDD [C]            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.591    | 7.561-7.621   | +++++  | +++++   |
| 41 2,4-DDT [C]            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.913    | 7.883-7.943   | +++++  | +++++   |
| 42 Hexachloroethane [C]   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.676    | 1.646-1.706   | +++++  | +++++   |
| 43 Oxychlorane [C]        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.741    | 6.711-6.771   | +++++  | +++++   |
| 44 trans-Nonachlor [C]    | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.155    | 7.125-7.185   | +++++  | +++++   |
| 45 cis-Nonachlor [C]      | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.975    | 7.945-8.005   | +++++  | +++++   |
| 46 Mirex [C]              | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.223    | 9.193-9.253   | +++++  | +++++   |
| 47 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 21.499   | 21.469-21.529 | +++++  | +++++   |
| 48 Chlordane (NOS) [C]    | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.612    | 5.582-5.642   | +++++  | +++++   |
| 49 Trifluralin            | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.871    | 4.841-4.901   | +++++  | +++++   |
| 50 Dacthal                | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.640    | 6.610-6.670   | +++++  | +++++   |
| 51 Oxadiazon              | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.115    | 8.085-8.145   | +++++  | +++++   |
| 52 Kelthane               | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.286   | 11.256-11.316 | +++++  | +++++   |
| 53 Chlorpyrifos           | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.527    | 6.497-6.557   | +++++  | +++++   |
| 54 Methyl Parathion       | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.342    | 6.312-6.372   | +++++  | +++++   |
| 55 Ethyl Parathion        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.841    | 6.811-6.871   | +++++  | +++++   |
| 56 Kepone [C]             | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.336    | 7.306-7.366   | +++++  | +++++   |
| 57 1-Chloropyrene         | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.745    | 7.715-7.775   | +++++  | +++++   |

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121403.D  
Data file 2: /20221214.b/B20221214.b/22121403.D  
Method: \20221214.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-IBL1  
Client ID:  
Injection Date: 14-DEC-2022 20:02  
Report Date: 12/16/2022 15:19  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col |        |          | CLP2 Col |        |          | STX-CLP | CLP2   | RPD    | Compound/Flag        |
|-------------|--------|----------|----------|--------|----------|---------|--------|--------|----------------------|
| RT          | Shift  | Response | RT       | Shift  | Response | on col  | on col |        |                      |
| ----        |        |          | ----     |        |          | 0.00    | 0.00   | ---    | alpha-BHC            |
| ----        |        |          | ----     |        |          | 0.00    | 0.00   | ---    | beta-BHC             |
| ----        |        |          | ----     |        |          | 0.00    | 0.00   | ---    | delta-BHC            |
| ----        |        |          | ----     |        |          | 0.00    | 0.00   | ---    | gamma-BHC (Lindane)  |
| ----        |        |          | ----     |        |          | 0.00    | 0.00   | ---    | Heptachlor           |
| ----        |        |          | ----     |        |          | 0.00    | 0.00   | ---    | Aldrin               |
| ----        |        |          | 6.824    | -0.021 | 2291     | 0.00    | 0.14   | ---    | Heptachlor epoxide b |
| ----        |        |          | ----     |        |          | 0.00    | 0.00   | ---    | Endosulfan I         |
| ----        |        |          | 7.597    | 0.015  | 1696     | 0.00    | 0.11   | ---    | Dieldrin             |
| ----        |        |          | ----     |        |          | 0.00    | 0.00   | ---    | 4,4'-DDE             |
| ----        |        |          | ----     |        |          | 0.00    | 0.00   | ---    | Endrin               |
| ----        |        |          | 8.135    | 0.018  | 285      | 0.00    | 0.02   | ---    | Endosulfan II        |
| ----        |        |          | 7.975    | -0.002 | 1369     | 0.00    | 0.12   | ---    | 4,4'-DDD             |
| ----        |        |          | 8.720    | 0.005  | 243      | 0.00    | 0.02   | ---    | Endosulfan sulfate   |
| ----        |        |          | ----     |        |          | 0.00    | 0.00   | ---    | 4,4'-DDT             |
| ----        |        |          | 8.924    | -0.013 | 546      | 0.00    | 0.11   | ---    | Methoxychlor         |
| 8.444       | -0.009 | 1962     | 9.226    | -0.013 | 2888     | 0.23    | 0.25   | 10.1   | Endrin ketone        |
| ----        |        |          | ----     |        |          | 0.00    | 0.00   | ---    | Endrin aldehyde      |
| ----        |        |          | 7.070    | 0.014  | 4708     | 0.00    | 0.30   | ---    | trans-Chlordane      |
| ----        |        |          | 7.219    | 0.003  | 810      | 0.00    | 0.05   | ---    | cis-Chlordane        |
| 2.351       | 0.028  | 6378     | 2.512    | 0.012  | 33421    | 0.42    | 1.60   | 116.6* | Hexachlorobutadiene  |
| 4.183       | 0.001  | 4869     | 4.721    | 0.003  | 421      | 0.36    | 0.02   | 178.1* | Hexachlorobenzene    |
| 3.828       | 0.000  | 375293   | 4.220    | -0.000 | 579767   | 36.70   | 37.46  | 2.1    | Tetrachloro-m-xylene |
| 9.356       | 0.001  | 243291   | 10.467   | 0.000  | 323668   | 35.86   | 35.40  | 1.3    | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D  |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area |     |
| Bromo-Nitrobenzene | 710650         | 751998      | 5.8 |
| Hexabromobiphenyl  | 641833         | 669495      | 4.3 |

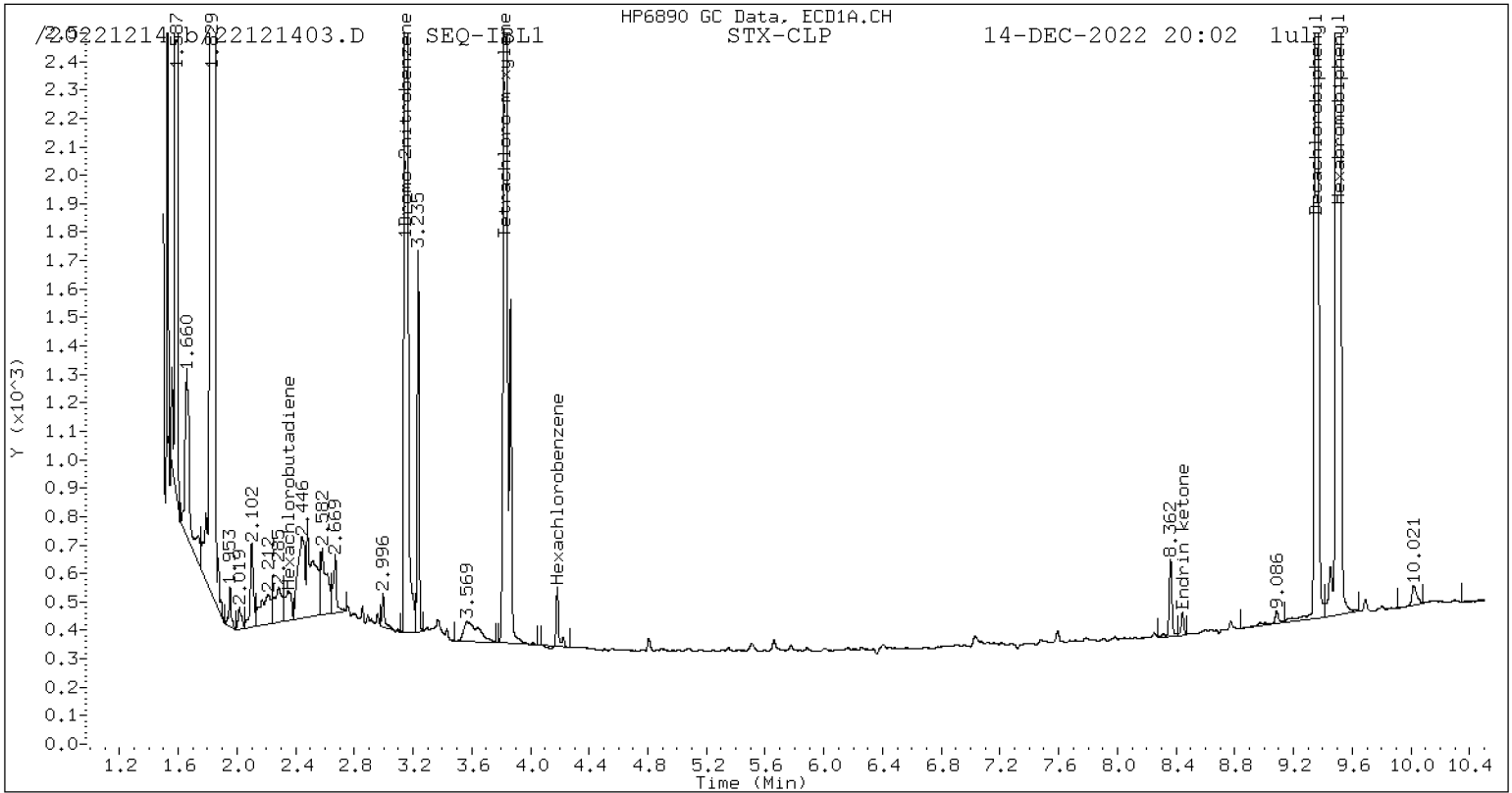
| Standard Cpnd      | Column 2       |             | %D  |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area |     |
| Bromo-Nitrobenzene | 1058848        | 1099555     | 3.8 |
| Hexabromobiphenyl  | 797125         | 827325      | 3.8 |

\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

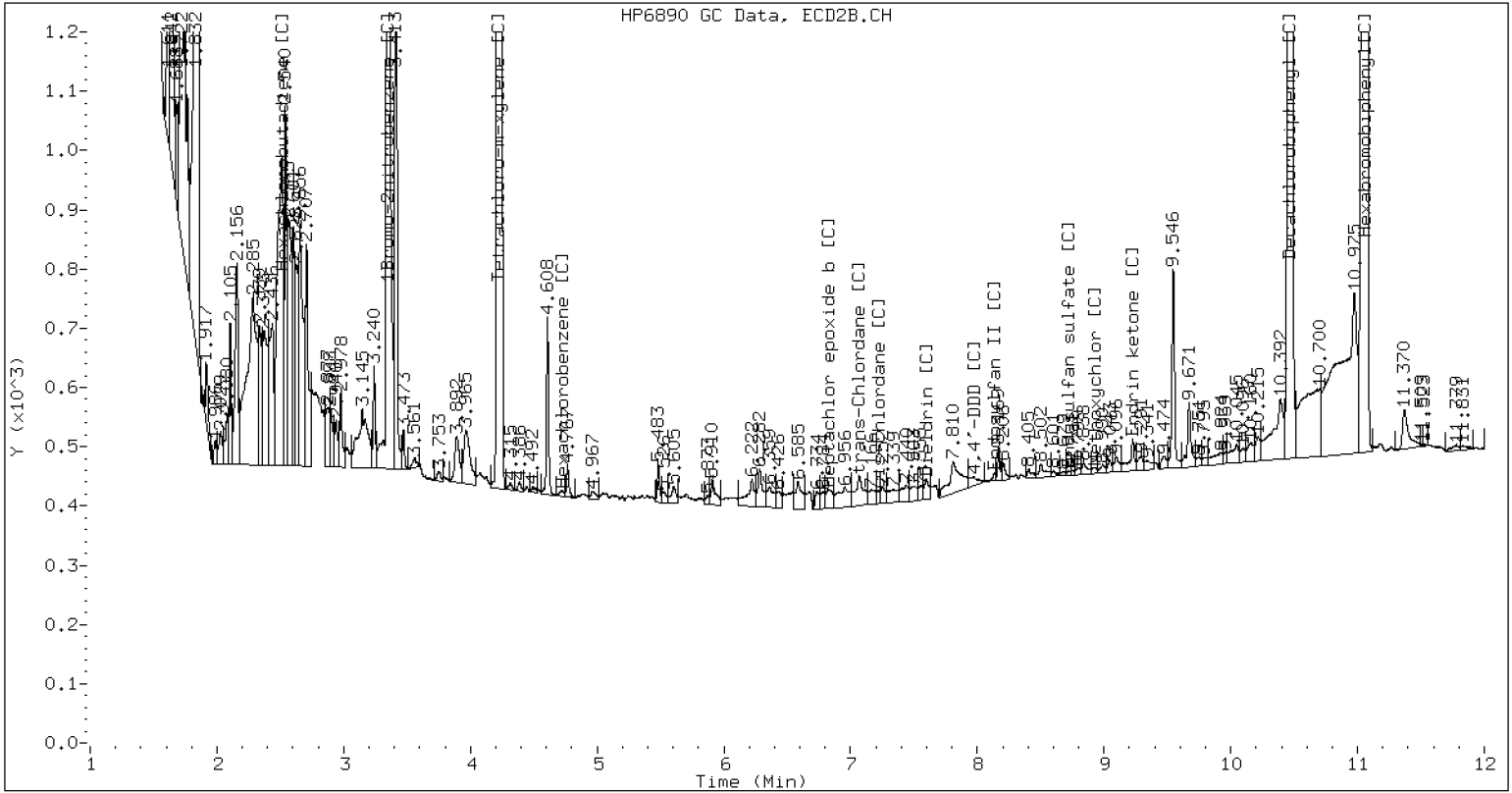
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121403.D SEQ-IBL1 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121403.D  
Data file 2: /20221214.b/B20221214.b/22121403.D  
Method: \20221214.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-IBL1  
Client ID:  
Injection Date: 14-DEC-2022 20:02  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col |                | CLP2 Col |                | STX-CLP | CLP2   |     |               |
|-------------|----------------|----------|----------------|---------|--------|-----|---------------|
| RT          | Shift Response | RT       | Shift Response | on col  | on col | RPD | Compound/Flag |

=====

7E  
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SEQ-PEM1                          InstID,Data File: ecd6.i, 22121404.D

Analysis Date: 14-DEC-2022 20:20          Init. Calib. Date: 14-DEC-2022

GC Column: STX-CLP1    ID: 0.53(mm)

| COMPOUND             | RT    | AREA    |
|----------------------|-------|---------|
| 1Bromo-2nitrobenzene | 3.151 | 683485  |
| 4,4'-DDE             | 6.490 | 6258    |
| Endrin               | 7.082 | 745471  |
| 4,4'-DDD             | 7.136 | 15566   |
| 4,4'-DDT             | 7.428 | 629664  |
| Endrin ketone        | 8.453 | 19276   |
| Endrin aldehyde      | 7.747 | 21328   |
| Hexabromobiphenyl    | 9.504 | 619012  |
| Tetrachloro-m-xylene | 3.828 | 1161664 |
| Decachlorobiphenyl   | 9.355 | 833312  |

DDT Percent Breakdown = 3.3 %  
 $((6258+15566) * 100) / (6258+15566+629664)$

Endrin Percent Breakdown = 5.2 %  
 $((21328+19276) * 100) / (21328+19276+745471)$

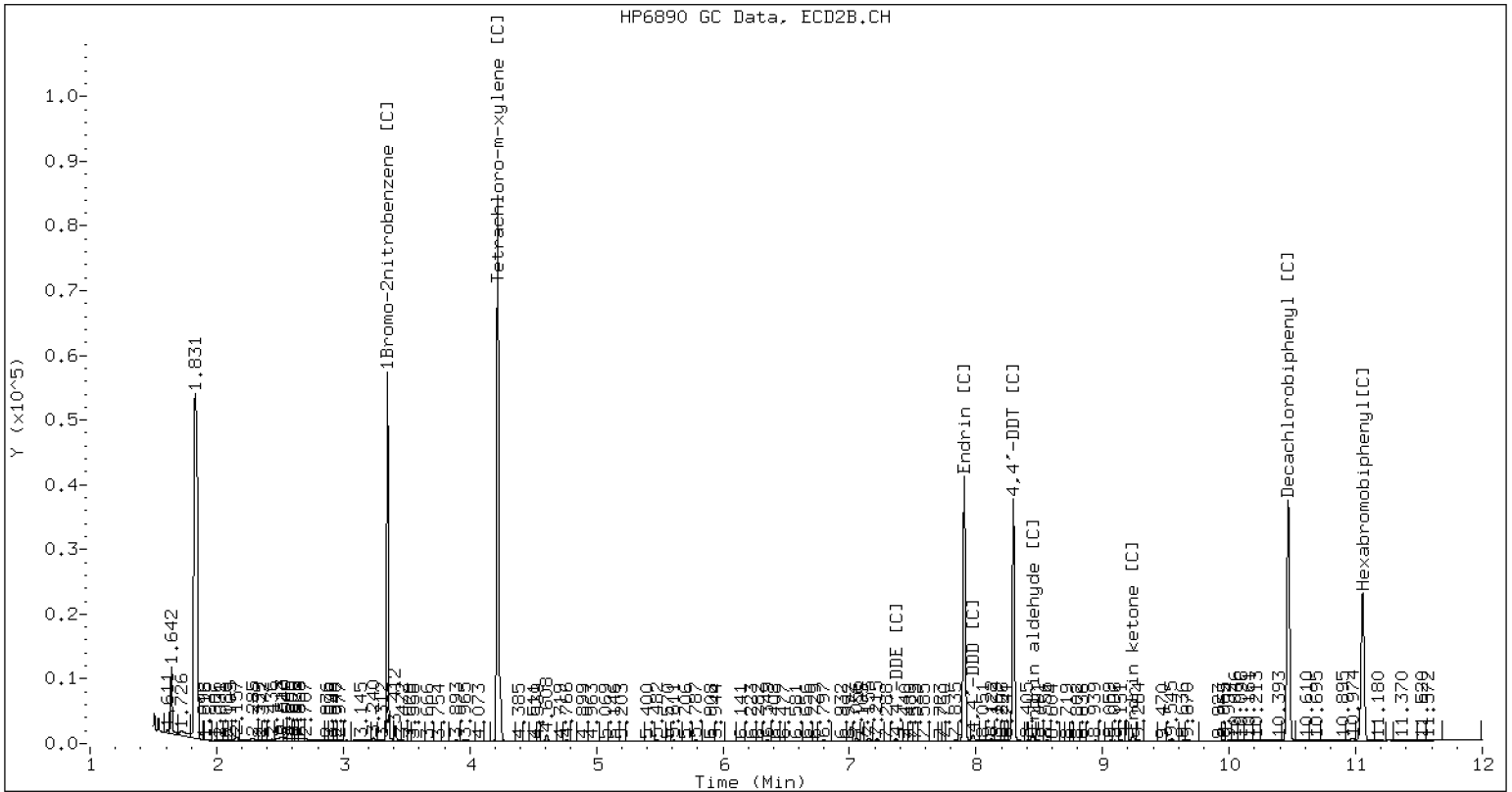
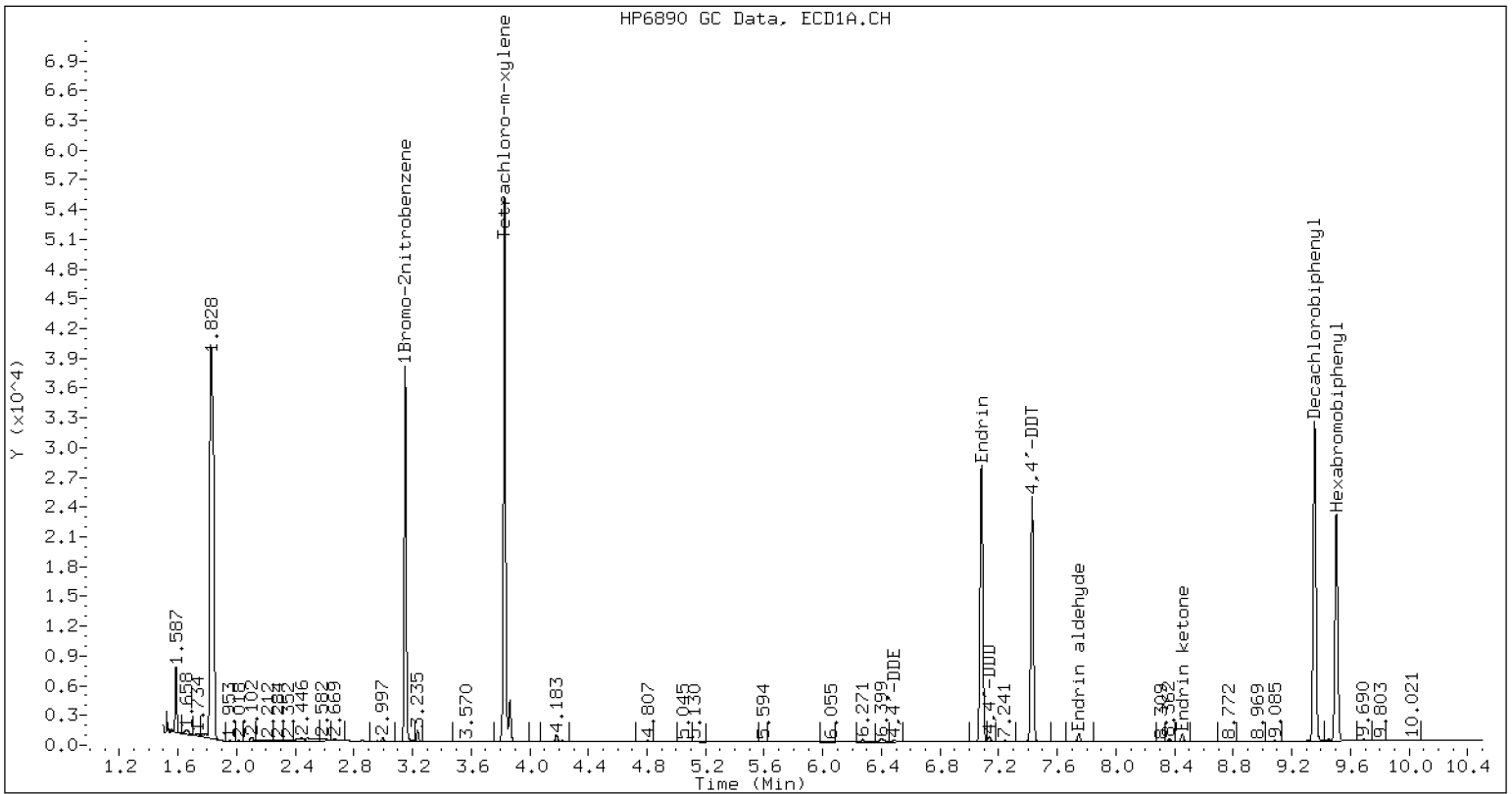
GC Column: STX-CLP2    ID: 0.53(mm)

| COMPOUND                 | RT     | AREA    |
|--------------------------|--------|---------|
| 1Bromo-2nitrobenzene [C] | 3.350  | 1005375 |
| 4,4'-DDE [C]             | 7.370  | 11906   |
| Endrin [C]               | 7.907  | 1029194 |
| 4,4'-DDD [C]             | 7.977  | 32697   |
| 4,4'-DDT [C]             | 8.295  | 890195  |
| Endrin ketone [C]        | 9.239  | 28268   |
| Endrin aldehyde [C]      | 8.448  | 31426   |
| Hexabromobiphenyl [C]    | 11.054 | 772586  |
| Tetrachloro-m-xylene [C] | 4.220  | 1890294 |
| Decachlorobiphenyl [C]   | 10.467 | 1140978 |

DDT Percent Breakdown = 4.8 %  
 $((11906+32697) * 100) / (11906+32697+890195)$

Endrin Percent Breakdown = 5.5 %  
 $((31426+28268) * 100) / (31426+28268+1029194)$







7E  
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SEQ-PEM1                      InstID,Data File: ecd6.i, 22121404.D  
Analysis Date: 14-DEC-2022 20:20      Init. Calib. Date: 14-DEC-2022

GC Column: STX-CLP1    ID: 0.53(mm)

| COMPOUND             | RT    | AREA    |
|----------------------|-------|---------|
| 1Bromo-2nitrobenzene | 3.151 | 683485  |
| 4,4'-DDE             | 6.490 | 6258    |
| Endrin               | 7.082 | 745471  |
| 4,4'-DDD             | 7.136 | 15566   |
| 4,4'-DDT             | 7.428 | 629664  |
| Endrin ketone        | 8.453 | 19276   |
| Endrin aldehyde      | 7.747 | 21328   |
| Hexabromobiphenyl    | 9.504 | 619012  |
| Tetrachloro-m-xylene | 3.828 | 1161664 |
| Decachlorobiphenyl   | 9.355 | 833312  |

DDT Percent Breakdown = 3.3 %  
 $((6258+15566) * 100)/(6258+15566+629664)$

Endrin Percent Breakdown = 5.2 %  
 $((21328+19276) * 100)/(21328+19276+745471)$

GC Column: STX-CLP1    ID: 0.53(mm)

| COMPOUND           | RT    | AREA   |
|--------------------|-------|--------|
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |

|                    |       |        |
|--------------------|-------|--------|
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121405.D  
Data file 2: /20221214.b/B20221214.b/22121405.D  
Method: \20221214.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL1  
Client ID:  
Injection Date: 14-DEC-2022 20:38  
Report Date: 12/16/2022 15:19  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT     | CLP2 Col<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD   | Compound/Flag |                      |
|-------|-------------------------------|----------------------------|--------|----------------------------|-------------------|----------------|-------|---------------|----------------------|
| 4.342 | -0.000                        | 17720                      | 4.860  | -0.001                     | 25579             | 1.30           | 1.22  | 6.4           | alpha-BHC            |
| 4.726 | -0.000                        | 7513                       | 5.337  | -0.000                     | 10927             | 1.43           | 1.37  | 4.4           | beta-BHC             |
| 4.909 | -0.000                        | 14050                      | 5.690  | -0.000                     | 21188             | 1.26           | 1.23  | 2.8           | delta-BHC            |
| 4.645 | -0.000                        | 15329                      | 5.257  | -0.001                     | 21981             | 1.30           | 1.24  | 4.9           | gamma-BHC (Lindane)  |
| 5.130 | -0.000                        | 14540                      | 5.786  | -0.000                     | 20395             | 1.38           | 1.27  | 8.9           | Heptachlor           |
| 5.453 | -0.001                        | 15026                      | 6.190  | -0.001                     | 24413             | 1.28           | 1.33  | 3.9           | Aldrin               |
| 6.130 | 0.000                         | 13937                      | 6.845  | -0.000                     | 21959             | 1.37           | 1.44  | 5.6           | Heptachlor epoxide b |
| 6.572 | -0.000                        | 13220                      | 7.288  | -0.000                     | 19257             | 1.41           | 1.44  | 1.8           | Endosulfan I         |
| 6.831 | 0.000                         | 27285                      | 7.582  | -0.001                     | 43580             | 2.71           | 2.94  | 8.2           | Dieldrin             |
| 6.489 | 0.000                         | 25951                      | 7.370  | -0.001                     | 37722             | 2.78           | 2.78  | 0.0           | 4,4'-DDE             |
| 7.081 | 0.000                         | 24429                      | 7.906  | -0.001                     | 31381             | 2.94           | 2.78  | 5.3           | Endrin               |
| 7.318 | 0.001                         | 19827                      | 8.117  | -0.000                     | 30675             | 2.65           | 2.66  | 0.3           | Endosulfan II        |
| 7.135 | 0.000                         | 20434                      | 7.976  | -0.000                     | 28995             | 2.73           | 2.65  | 3.0           | 4,4'-DDD             |
| 8.180 | -0.000                        | 19661                      | 8.715  | -0.000                     | 26689             | 2.76           | 2.63  | 4.9           | Endosulfan sulfate   |
| 7.427 | 0.000                         | 20071                      | 8.294  | -0.001                     | 26950             | 2.65           | 2.55  | 3.9           | 4,4'-DDT             |
| 7.912 | -0.000                        | 52385                      | 8.935  | -0.001                     | 65896             | 15.60          | 14.07 | 10.3          | Methoxychlor         |
| 8.453 | -0.001                        | 24276                      | 9.239  | -0.000                     | 30129             | 2.98           | 2.75  | 8.0           | Endrin ketone        |
| 7.746 | -0.000                        | 17209                      | 8.448  | -0.000                     | 21218             | 2.88           | 2.60  | 10.1          | Endrin aldehyde      |
| 6.270 | -0.001                        | 14829                      | 7.056  | -0.000                     | 22517             | 1.43           | 1.48  | 3.7           | trans-Chlordane      |
| 6.417 | 0.000                         | 15767                      | 7.215  | -0.000                     | 22150             | 1.52           | 1.49  | 1.6           | cis-Chlordane        |
| 2.323 | -0.001                        | 27320                      | 2.500  | -0.001                     | 42655             | 1.92           | 2.14  | 11.3          | Hexachlorobutadiene  |
| 4.182 | 0.000                         | 18555                      | 4.718  | -0.000                     | 27377             | 1.47           | 1.44  | 2.2           | Hexachlorobenzene    |
| 3.828 | -0.000                        | 28792                      | 4.220  | -0.001                     | 41270             | 2.99           | 2.80  | 6.5           | Tetrachloro-m-xylene |
| 9.355 | -0.000                        | 21954                      | 10.466 | -0.000                     | 30646             | 3.41           | 3.50  | 2.5           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 710650         | 707324      | -0.5 |
| Hexabromobiphenyl  | 641833         | 634819      | -1.1 |

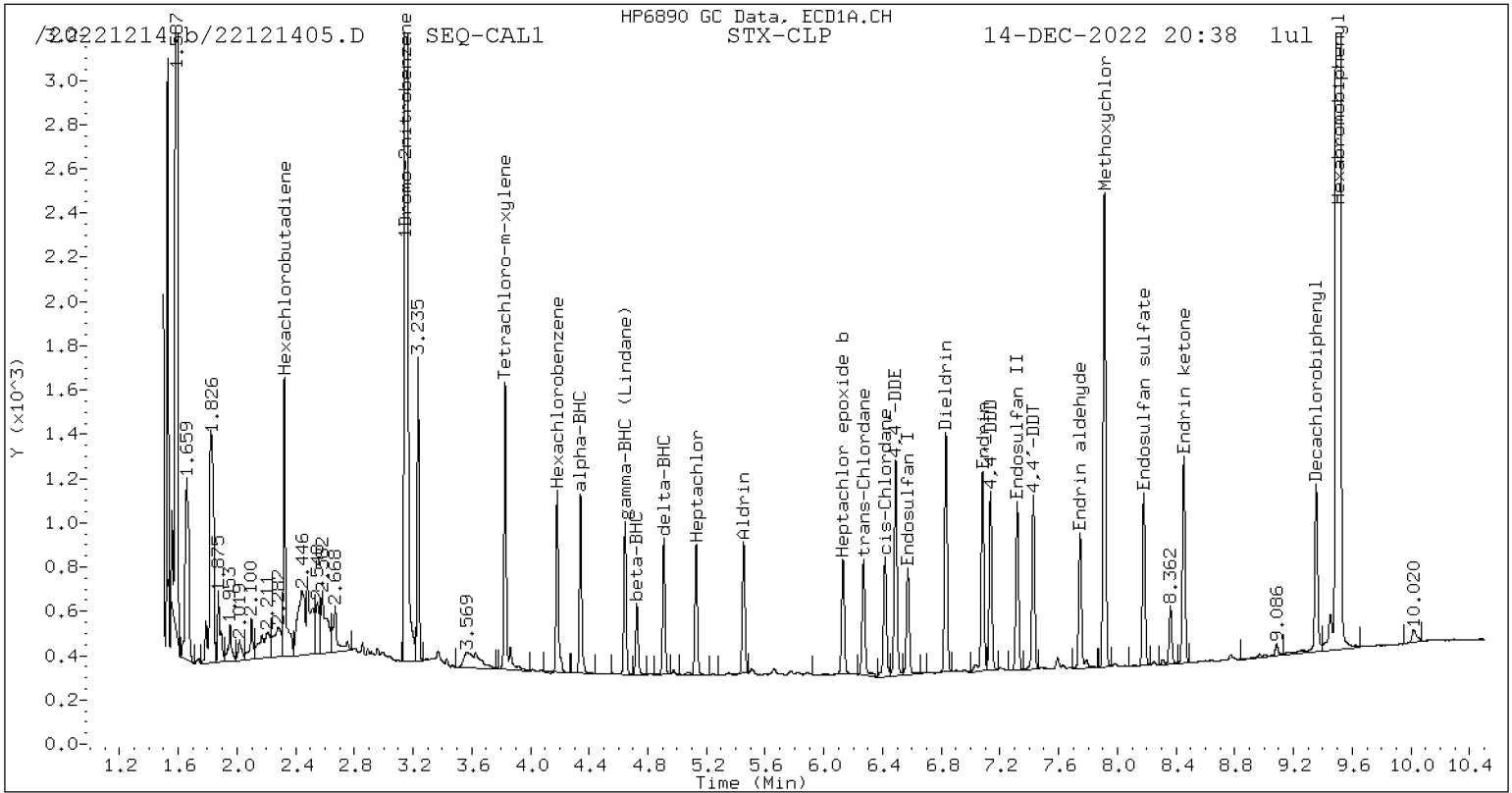
| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1058848        | 1045524     | -1.3 |
| Hexabromobiphenyl  | 797125         | 792558      | -0.6 |

\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

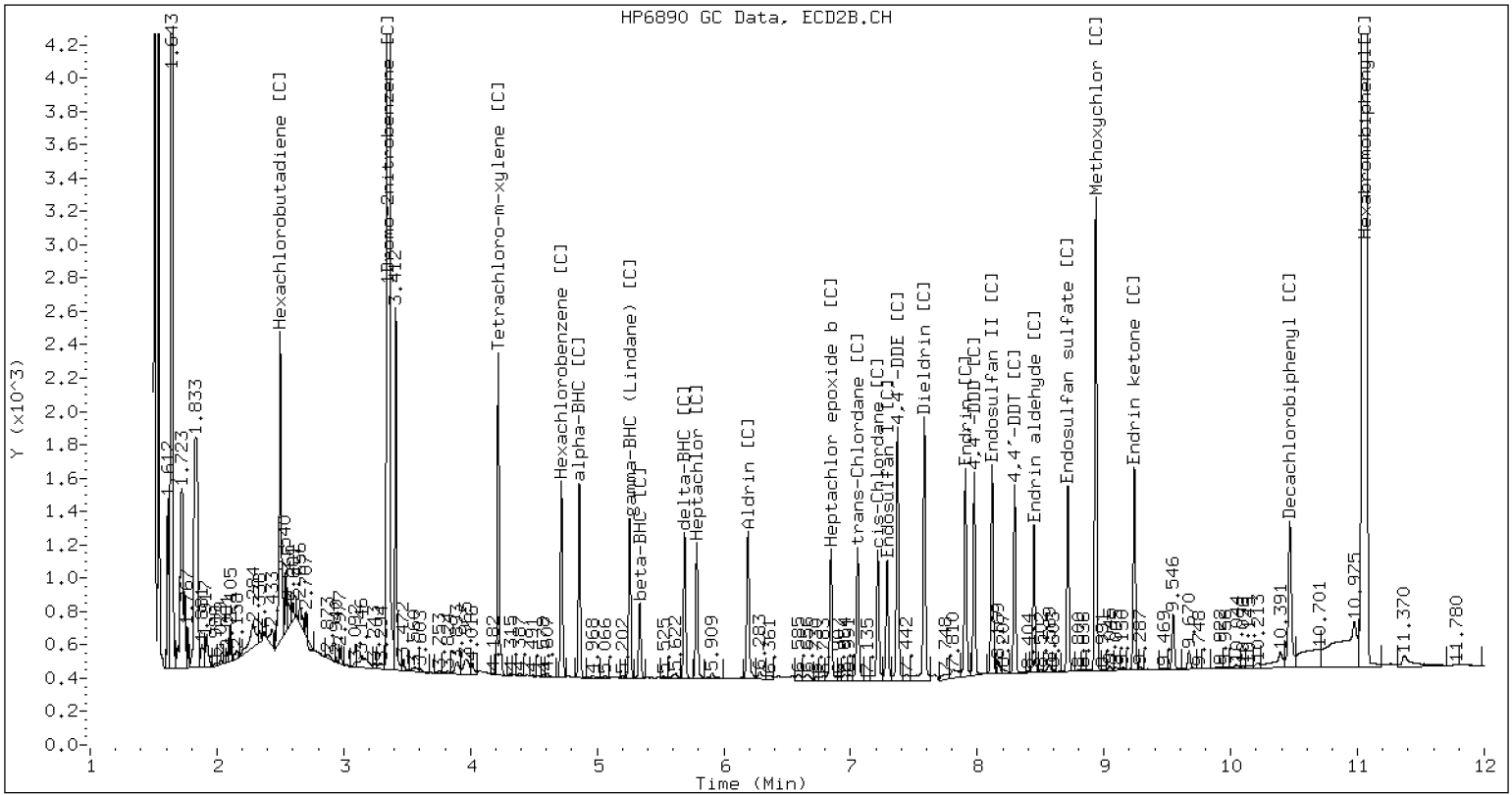
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121405.D SEQ-CAL1 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121405.D  
Data file 2: /20221214.b/B20221214.b/22121405.D  
Method: \20221214.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL1  
Client ID:  
Injection Date: 14-DEC-2022 20:38  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP  | CLP2 | RPD   | Compound/Flag |        |        |     |               |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT          | Shift    | Response | RT   | Shift | Response      | on col | on col | RPD | Compound/Flag |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121406.D  
Data file 2: /20221214.b/B20221214.b/22121406.D  
Method: \20221214.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL2  
Client ID:  
Injection Date: 14-DEC-2022 20:56  
Report Date: 12/16/2022 15:19  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT     | CLP2 Col<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD   | Compound/Flag |                      |
|-------|-------------------------------|----------------------------|--------|----------------------------|-------------------|----------------|-------|---------------|----------------------|
| 4.342 | -0.000                        | 35088                      | 4.859  | -0.001                     | 52514             | 2.54           | 2.47  | 2.9           | alpha-BHC            |
| 4.726 | -0.000                        | 14580                      | 5.337  | -0.000                     | 21664             | 2.74           | 2.68  | 2.4           | beta-BHC             |
| 4.909 | -0.000                        | 28429                      | 5.691  | -0.000                     | 43932             | 2.52           | 2.51  | 0.5           | delta-BHC            |
| 4.645 | 0.000                         | 30588                      | 5.257  | -0.001                     | 44971             | 2.55           | 2.49  | 2.5           | gamma-BHC (Lindane)  |
| 5.129 | -0.001                        | 28458                      | 5.787  | -0.000                     | 42156             | 2.67           | 2.58  | 3.6           | Heptachlor           |
| 5.453 | -0.001                        | 30273                      | 6.190  | -0.001                     | 50159             | 2.53           | 2.69  | 5.8           | Aldrin               |
| 6.130 | -0.001                        | 27608                      | 6.845  | -0.001                     | 43067             | 2.67           | 2.79  | 4.5           | Heptachlor epoxide b |
| 6.572 | -0.000                        | 25650                      | 7.288  | -0.001                     | 37112             | 2.70           | 2.73  | 1.0           | Endosulfan I         |
| 6.832 | 0.000                         | 54960                      | 7.582  | -0.001                     | 84296             | 5.38           | 5.60  | 4.0           | Dieldrin             |
| 6.489 | -0.000                        | 51182                      | 7.370  | -0.001                     | 74355             | 5.40           | 5.39  | 0.2           | 4,4'-DDE             |
| 7.081 | 0.000                         | 46577                      | 7.906  | -0.001                     | 63434             | 5.52           | 5.52  | 0.1           | Endrin               |
| 7.317 | 0.001                         | 37804                      | 8.116  | -0.001                     | 65448             | 4.98           | 5.56  | 11.1          | Endosulfan II        |
| 7.136 | 0.001                         | 40399                      | 7.976  | -0.001                     | 62302             | 5.32           | 5.58  | 4.8           | 4,4'-DDD             |
| 8.179 | -0.001                        | 38342                      | 8.714  | -0.001                     | 57421             | 5.32           | 5.56  | 4.4           | Endosulfan sulfate   |
| 7.427 | -0.000                        | 40499                      | 8.294  | -0.001                     | 59346             | 5.27           | 5.51  | 4.3           | 4,4'-DDT             |
| 7.912 | -0.000                        | 98271                      | 8.934  | -0.002                     | 130815            | 28.88          | 27.42 | 5.2           | Methoxychlor         |
| 8.452 | -0.001                        | 45639                      | 9.239  | -0.001                     | 62360             | 5.53           | 5.59  | 1.1           | Endrin ketone        |
| 7.746 | 0.000                         | 32847                      | 8.447  | -0.001                     | 47592             | 5.42           | 5.73  | 5.6           | Endrin aldehyde      |
| 6.271 | 0.000                         | 28307                      | 7.055  | -0.001                     | 41633             | 2.69           | 2.70  | 0.4           | trans-Chlordane      |
| 6.417 | 0.000                         | 29336                      | 7.215  | -0.000                     | 41766             | 2.78           | 2.77  | 0.3           | cis-Chlordane        |
| 2.323 | -0.001                        | 44113                      | 2.500  | -0.001                     | 65565             | 3.05           | 3.24  | 6.2           | Hexachlorobutadiene  |
| 4.182 | -0.000                        | 35520                      | 4.718  | -0.000                     | 53173             | 2.77           | 2.75  | 0.9           | Hexachlorobenzene    |
| 3.828 | -0.000                        | 54873                      | 4.220  | -0.001                     | 81034             | 5.62           | 5.42  | 3.7           | Tetrachloro-m-xylene |
| 9.354 | -0.001                        | 38477                      | 10.465 | -0.001                     | 54866             | 5.90           | 6.15  | 4.1           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D  |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area |     |
| Bromo-Nitrobenzene | 710650         | 717600      | 1.0 |
| Hexabromobiphenyl  | 641833         | 643445      | 0.3 |

| Standard Cpnd      | Column 2       |             | %D  |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area |     |
| Bromo-Nitrobenzene | 1058848        | 1061990     | 0.3 |
| Hexabromobiphenyl  | 797125         | 807490      | 1.3 |

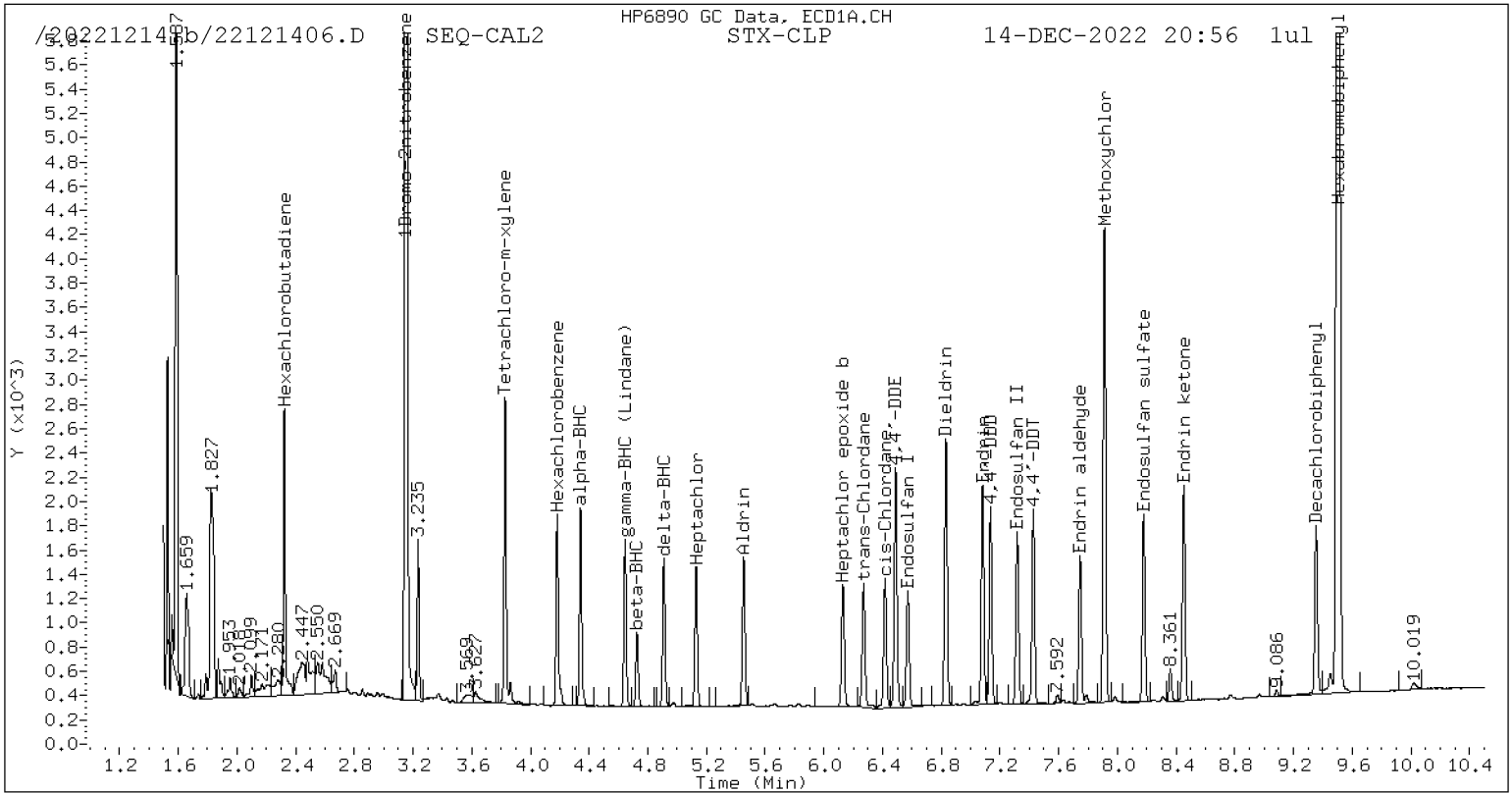
\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

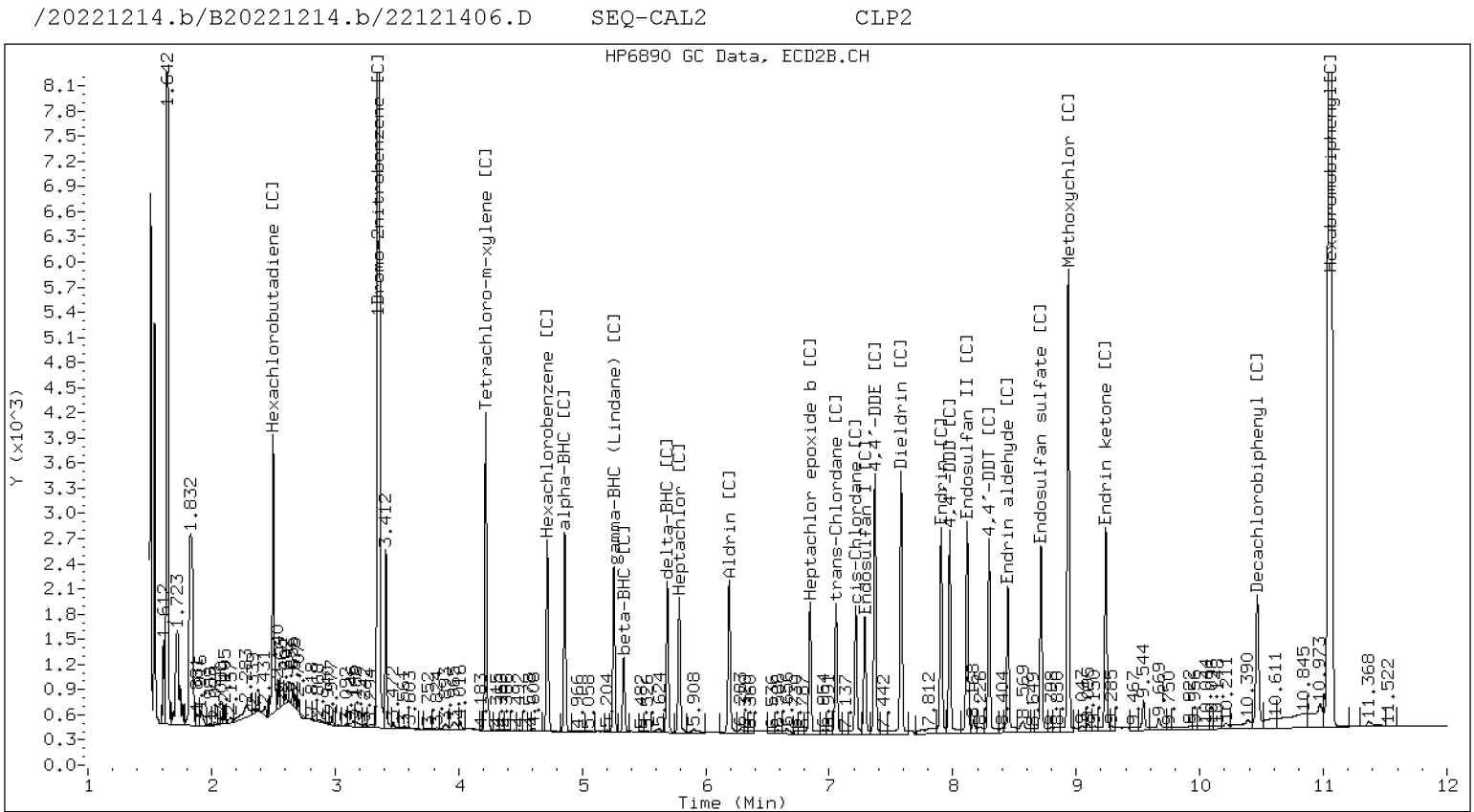
<- Indicates standard response outside Limits (-50 to +100%)



Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121406.D  
Data file 2: /20221214.b/B20221214.b/22121406.D  
Method: \20221214.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL2  
Client ID:  
Injection Date: 14-DEC-2022 20:56  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col |                | CLP2 Col |                | STX-CLP | CLP2   |     |               |
|-------------|----------------|----------|----------------|---------|--------|-----|---------------|
| RT          | Shift Response | RT       | Shift Response | on col  | on col | RPD | Compound/Flag |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121407.D  
Data file 2: /20221214.b/B20221214.b/22121407.D  
Method: \20221214.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL3  
Client ID:  
Injection Date: 14-DEC-2022 21:14  
Report Date: 12/16/2022 15:19  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT     | CLP2<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD   | Compound/Flag |                      |
|-------|-------------------------------|----------------------------|--------|------------------------|-------------------|----------------|-------|---------------|----------------------|
| 4.343 | 0.001                         | 68202                      | 4.860  | -0.000                 | 103195            | 5.06           | 4.95  | 2.2           | alpha-BHC            |
| 4.727 | 0.000                         | 26774                      | 5.338  | 0.000                  | 40159             | 5.16           | 5.06  | 1.8           | beta-BHC             |
| 4.910 | 0.001                         | 55344                      | 5.691  | 0.000                  | 85044             | 5.02           | 4.95  | 1.5           | delta-BHC            |
| 4.646 | 0.001                         | 59491                      | 5.258  | 0.000                  | 87747             | 5.09           | 4.96  | 2.6           | gamma-BHC (Lindane)  |
| 5.130 | 0.000                         | 53529                      | 5.787  | 0.000                  | 80295             | 5.15           | 5.01  | 2.7           | Heptachlor           |
| 5.455 | 0.001                         | 59061                      | 6.191  | 0.000                  | 92167             | 5.07           | 5.03  | 0.7           | Aldrin               |
| 6.132 | 0.001                         | 52071                      | 6.845  | -0.000                 | 76415             | 5.15           | 5.05  | 2.1           | Heptachlor epoxide b |
| 6.573 | 0.001                         | 48052                      | 7.289  | -0.000                 | 67929             | 5.18           | 5.09  | 1.8           | Endosulfan I         |
| 6.832 | 0.001                         | 104217                     | 7.583  | -0.000                 | 151301            | 10.46          | 10.26 | 1.9           | Dieldrin             |
| 6.490 | 0.001                         | 97042                      | 7.371  | 0.000                  | 139172            | 10.49          | 10.29 | 1.9           | 4,4'-DDE             |
| 7.082 | 0.001                         | 87185                      | 7.906  | -0.001                 | 115830            | 10.66          | 10.37 | 2.8           | Endrin               |
| 7.318 | 0.001                         | 77341                      | 8.117  | 0.000                  | 118175            | 10.50          | 10.32 | 1.8           | Endosulfan II        |
| 7.136 | 0.001                         | 77451                      | 7.976  | 0.000                  | 110178            | 10.51          | 10.14 | 3.6           | 4,4'-DDD             |
| 8.180 | 0.001                         | 73440                      | 8.715  | 0.000                  | 102417            | 10.50          | 10.18 | 3.1           | Endosulfan sulfate   |
| 7.428 | 0.001                         | 77522                      | 8.294  | -0.001                 | 105882            | 10.41          | 10.09 | 3.1           | 4,4'-DDT             |
| 7.913 | 0.001                         | 178164                     | 8.935  | -0.001                 | 239047            | 53.98          | 51.49 | 4.7           | Methoxychlor         |
| 8.454 | 0.000                         | 84510                      | 9.239  | -0.000                 | 110024            | 10.55          | 10.13 | 4.1           | Endrin ketone        |
| 7.746 | 0.001                         | 61122                      | 8.448  | -0.000                 | 82817             | 10.40          | 10.25 | 1.5           | Endrin aldehyde      |
| 6.271 | 0.001                         | 52622                      | 7.056  | -0.000                 | 76513             | 5.13           | 5.07  | 1.1           | trans-Chlordane      |
| 6.417 | 0.001                         | 53515                      | 7.216  | 0.000                  | 75023             | 5.20           | 5.08  | 2.3           | cis-Chlordane        |
| 2.324 | -0.000                        | 75632                      | 2.500  | -0.000                 | 107268            | 5.35           | 5.41  | 1.1           | Hexachlorobutadiene  |
| 4.183 | 0.001                         | 66090                      | 4.718  | -0.000                 | 98926             | 5.28           | 5.21  | 1.3           | Hexachlorobenzene    |
| 3.828 | 0.000                         | 101081                     | 4.220  | -0.000                 | 153451            | 10.61          | 10.47 | 1.3           | Tetrachloro-m-xylene |
| 9.355 | -0.000                        | 67797                      | 10.466 | -0.000                 | 92260             | 10.72          | 10.62 | 0.9           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 710650         | 700354      | -1.4 |
| Hexabromobiphenyl  | 641833         | 624108      | -2.8 |

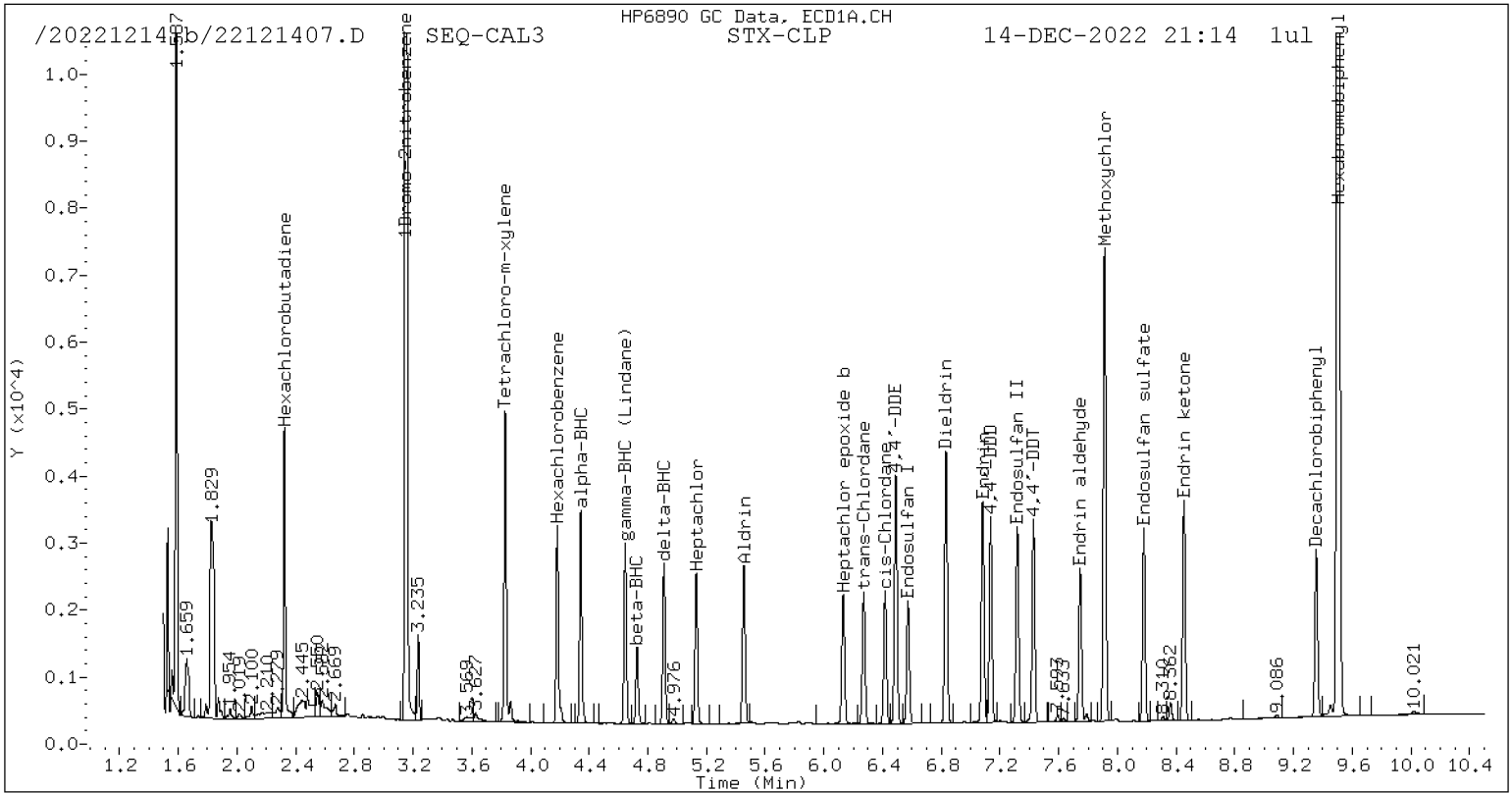
| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1058848        | 1040903     | -1.7 |
| Hexabromobiphenyl  | 797125         | 785894      | -1.4 |

\* Standard Areas taken from Initial Cal Level 5

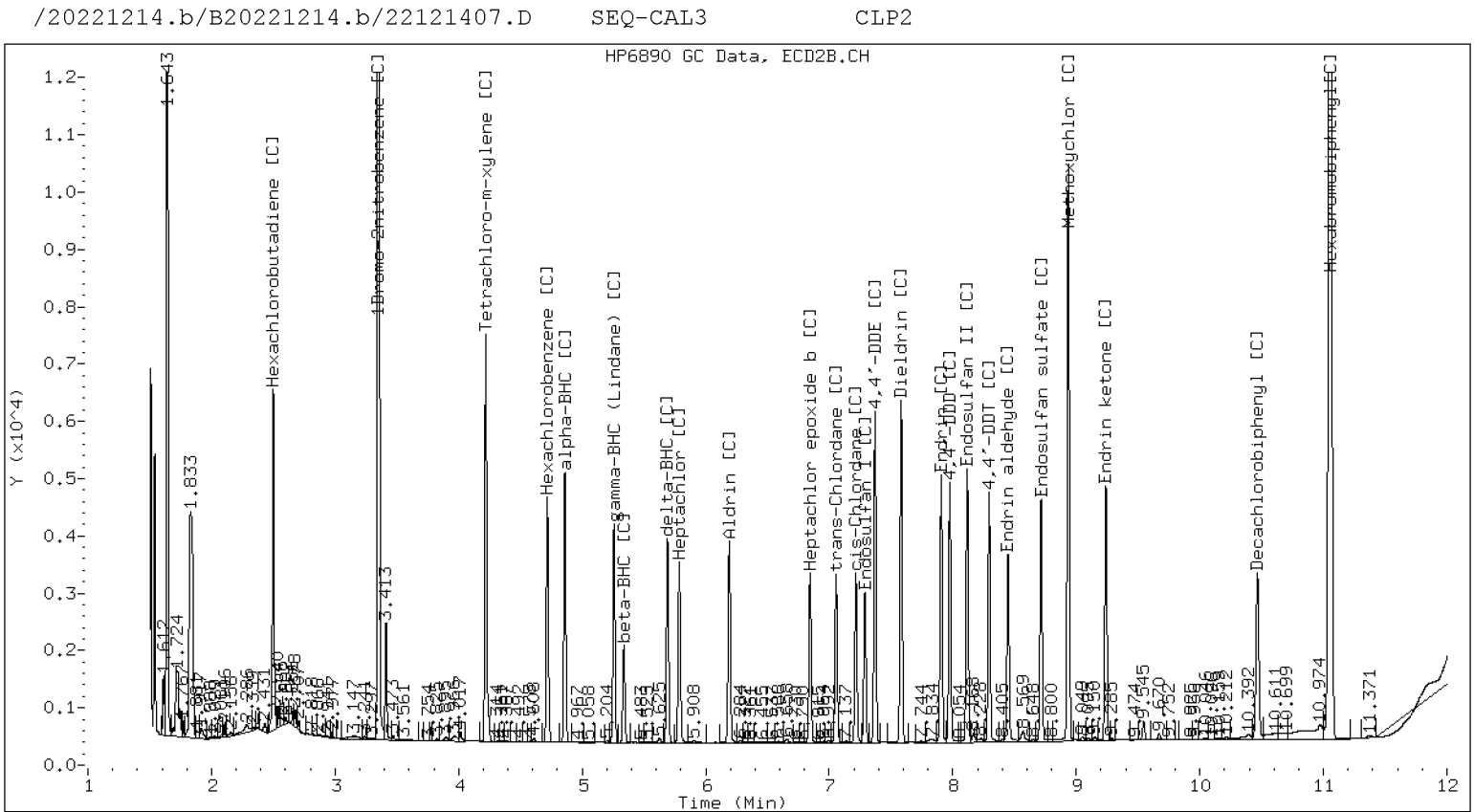
Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121407.D  
Data file 2: /20221214.b/B20221214.b/22121407.D  
Method: \20221214.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL3  
Client ID:  
Injection Date: 14-DEC-2022 21:14  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP  | CLP2 | RPD   | Compound/Flag |        |        |     |               |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT          | Shift    | Response | RT   | Shift | Response      | on col | on col | RPD | Compound/Flag |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121408.D  
Data file 2: /20221214.b/B20221214.b/22121408.D  
Method: \20221214.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL4  
Client ID:  
Injection Date: 14-DEC-2022 21:31  
Report Date: 12/16/2022 15:19  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT     | STX-CLP<br>on col | CLP2<br>on col | RPD    | Compound/Flag |     |                      |
|-------|-------------------------------|----------------------------|--------|-------------------|----------------|--------|---------------|-----|----------------------|
| 4.343 | 0.000                         | 139784                     | 4.860  | -0.000            | 216159         | 10.22  | 10.19         | 0.3 | alpha-BHC            |
| 4.726 | 0.000                         | 53742                      | 5.337  | 0.000             | 81857          | 10.20  | 10.15         | 0.6 | beta-BHC             |
| 4.910 | 0.001                         | 113586                     | 5.691  | 0.000             | 177281         | 10.16  | 10.14         | 0.2 | delta-BHC            |
| 4.646 | 0.000                         | 121488                     | 5.258  | 0.000             | 182844         | 10.24  | 10.15         | 0.9 | gamma-BHC (Lindane)  |
| 5.130 | 0.000                         | 108260                     | 5.787  | -0.000            | 166558         | 10.26  | 10.21         | 0.5 | Heptachlor           |
| 5.454 | 0.000                         | 124839                     | 6.191  | 0.000             | 189618         | 10.55  | 10.18         | 3.6 | Aldrin               |
| 6.131 | 0.001                         | 107301                     | 6.846  | 0.001             | 155424         | 10.46  | 10.09         | 3.6 | Heptachlor epoxide b |
| 6.573 | 0.000                         | 97151                      | 7.289  | 0.000             | 137043         | 10.32  | 10.10         | 2.2 | Endosulfan I         |
| 6.832 | 0.001                         | 210564                     | 7.583  | 0.000             | 301602         | 20.82  | 20.11         | 3.5 | Dieldrin             |
| 6.490 | 0.001                         | 195139                     | 7.371  | 0.000             | 281756         | 20.79  | 20.49         | 1.5 | 4,4'-DDE             |
| 7.082 | 0.001                         | 173216                     | 7.907  | -0.000            | 231062         | 20.59  | 20.39         | 1.0 | Endrin               |
| 7.318 | 0.001                         | 161303                     | 8.117  | 0.001             | 236844         | 21.29  | 20.39         | 4.4 | Endosulfan II        |
| 7.136 | 0.001                         | 157301                     | 7.977  | 0.001             | 222755         | 20.75  | 20.21         | 2.7 | 4,4'-DDD             |
| 8.180 | 0.000                         | 146955                     | 8.715  | 0.000             | 205334         | 20.43  | 20.13         | 1.5 | Endosulfan sulfate   |
| 7.428 | 0.001                         | 156744                     | 8.295  | -0.000            | 212755         | 20.46  | 19.99         | 2.3 | 4,4'-DDT             |
| 7.912 | 0.001                         | 344324                     | 8.936  | -0.001            | 473459         | 101.43 | 100.55        | 0.9 | Methoxychlor         |
| 8.453 | -0.000                        | 167384                     | 9.240  | 0.000             | 222080         | 20.31  | 20.15         | 0.8 | Endrin ketone        |
| 7.746 | 0.000                         | 123653                     | 8.448  | 0.000             | 164391         | 20.47  | 20.06         | 2.0 | Endrin aldehyde      |
| 6.271 | 0.001                         | 106805                     | 7.056  | 0.000             | 154174         | 10.25  | 10.04         | 2.1 | trans-Chlordane      |
| 6.418 | 0.001                         | 106651                     | 7.216  | 0.001             | 150231         | 10.21  | 10.00         | 2.1 | cis-Chlordane        |
| 2.323 | -0.000                        | 142895                     | 2.500  | -0.001            | 197539         | 9.97   | 9.80          | 1.7 | Hexachlorobutadiene  |
| 4.183 | 0.000                         | 130020                     | 4.718  | 0.000             | 197396         | 10.24  | 10.22         | 0.1 | Hexachlorobenzene    |
| 3.828 | 0.000                         | 199446                     | 4.220  | -0.000            | 308345         | 20.64  | 20.69         | 0.2 | Tetrachloro-m-xylene |
| 9.355 | 0.000                         | 130210                     | 10.466 | -0.000            | 170633         | 20.02  | 19.37         | 3.3 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D  |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area |     |
| Bromo-Nitrobenzene | 710650         | 710650      | 0.0 |
| Hexabromobiphenyl  | 641833         | 641833      | 0.0 |

| Standard Cpnd      | Column 2       |             | %D  |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area |     |
| Bromo-Nitrobenzene | 1058848        | 1058848     | 0.0 |
| Hexabromobiphenyl  | 797125         | 797125      | 0.0 |

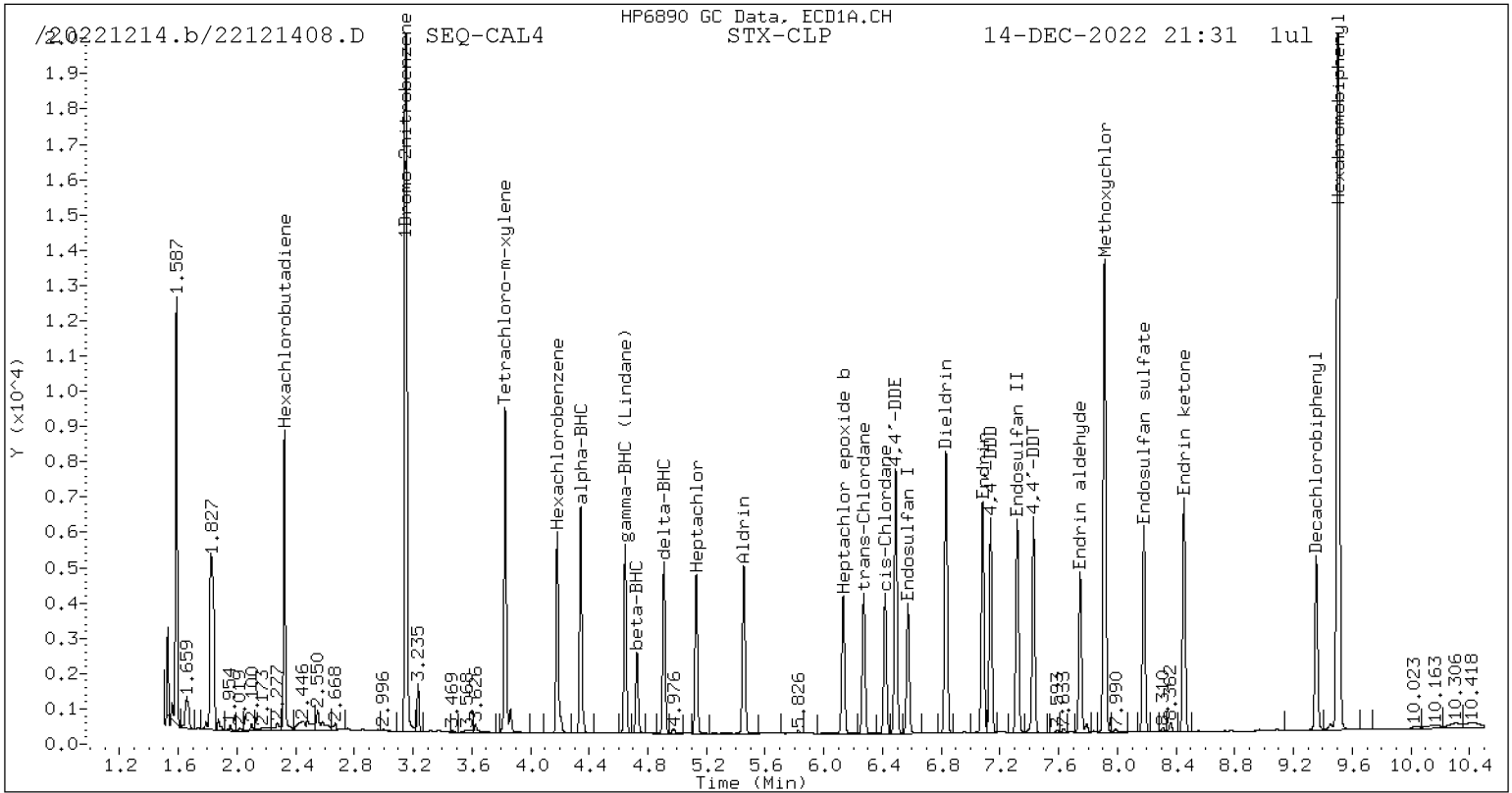
\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

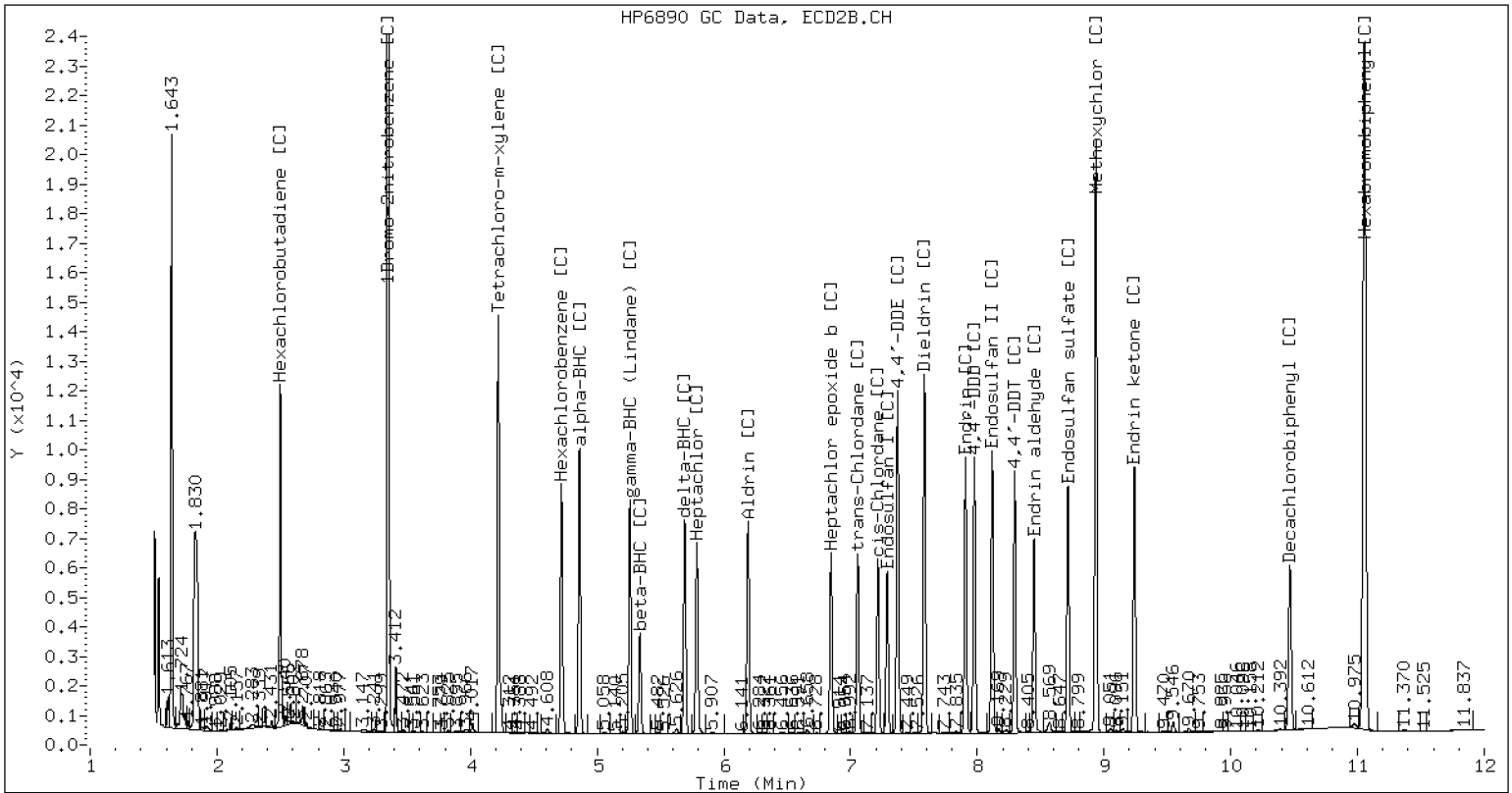


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121408.D SEQ-CAL4 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121408.D  
Data file 2: /20221214.b/B20221214.b/22121408.D  
Method: \20221214.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL4  
Client ID:  
Injection Date: 14-DEC-2022 21:31  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col |                | CLP2 Col |                | STX-CLP | CLP2   |     |               |
|-------------|----------------|----------|----------------|---------|--------|-----|---------------|
| RT          | Shift Response | RT       | Shift Response | on col  | on col | RPD | Compound/Flag |

=====

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121409.D  
Data file 2: /20221214.b/B20221214.b/22121409.D  
Method: \20221214.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL5  
Client ID:  
Injection Date: 14-DEC-2022 21:49  
Report Date: 12/16/2022 15:30  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT     | CLP2<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD    | Compound/Flag |                      |
|-------|-------------------------------|----------------------------|--------|------------------------|-------------------|----------------|--------|---------------|----------------------|
| 4.342 | 0.000                         | 263355                     | 4.860  | -0.001                 | 412780            | 20.34          | 20.46  | 0.6           | alpha-BHC            |
| 4.726 | 0.000                         | 99355                      | 5.337  | -0.000                 | 154138            | 19.93          | 20.10  | 0.8           | beta-BHC             |
| 4.909 | 0.000                         | 216224                     | 5.690  | -0.000                 | 334261            | 20.44          | 20.12  | 1.6           | delta-BHC            |
| 4.645 | 0.000                         | 228274                     | 5.258  | -0.000                 | 350450            | 20.34          | 20.47  | 0.7           | gamma-BHC (Lindane)  |
| 5.130 | 0.000                         | 203067                     | 5.787  | -0.000                 | 320123            | 20.33          | 20.64  | 1.5           | Heptachlor           |
| 5.454 | 0.000                         | 230734                     | 6.191  | -0.000                 | 359912            | 20.62          | 20.33  | 1.4           | Aldrin               |
| 6.130 | 0.000                         | 198033                     | 6.845  | -0.000                 | 295580            | 20.41          | 20.19  | 1.1           | Heptachlor epoxide b |
| 6.572 | 0.000                         | 180905                     | 7.289  | -0.000                 | 260351            | 20.31          | 20.18  | 0.7           | Endosulfan I         |
| 6.831 | 0.000                         | 388583                     | 7.582  | -0.000                 | 571731            | 40.61          | 40.10  | 1.3           | Dieldrin             |
| 6.489 | 0.000                         | 362177                     | 7.370  | -0.000                 | 531128            | 40.77          | 40.63  | 0.4           | 4,4'-DDE             |
| 7.081 | 0.000                         | 323576                     | 7.907  | -0.000                 | 442460            | 40.48          | 40.43  | 0.1           | Endrin               |
| 7.317 | 0.000                         | 282010                     | 8.117  | -0.000                 | 446656            | 39.19          | 39.81  | 1.6           | Endosulfan II        |
| 7.135 | 0.000                         | 292251                     | 7.976  | -0.000                 | 427990            | 40.58          | 40.20  | 0.9           | 4,4'-DDD             |
| 8.180 | 0.000                         | 276113                     | 8.715  | 0.000                  | 393743            | 40.41          | 39.97  | 1.1           | Endosulfan sulfate   |
| 7.427 | 0.000                         | 296413                     | 8.295  | -0.000                 | 413083            | 40.73          | 40.20  | 1.3           | 4,4'-DDT             |
| 7.912 | 0.000                         | 628619                     | 8.935  | -0.001                 | 900958            | 194.94         | 198.14 | 1.6           | Methoxychlor         |
| 8.453 | 0.000                         | 311305                     | 9.239  | -0.000                 | 423698            | 39.77          | 39.82  | 0.1           | Endrin ketone        |
| 7.746 | 0.000                         | 230881                     | 8.448  | 0.000                  | 312907            | 40.23          | 39.54  | 1.7           | Endrin aldehyde      |
| 6.271 | 0.000                         | 200151                     | 7.056  | -0.000                 | 294106            | 20.31          | 20.15  | 0.8           | trans-Chlordane      |
| 6.417 | 0.000                         | 197892                     | 7.216  | -0.000                 | 285904            | 20.02          | 20.02  | 0.0           | cis-Chlordane        |
| 2.324 | 0.000                         | 260716                     | 2.500  | -0.000                 | 346254            | 19.22          | 18.08  | 6.2           | Hexachlorobutadiene  |
| 4.182 | 0.000                         | 237746                     | 4.718  | -0.000                 | 364913            | 19.78          | 19.88  | 0.5           | Hexachlorobenzene    |
| 3.828 | 0.000                         | 357836                     | 4.220  | -0.000                 | 567647            | 39.13          | 40.07  | 2.4           | Tetrachloro-m-xylene |
| 9.355 | 0.000                         | 239428                     | 10.466 | -0.001                 | 327134            | 38.76          | 38.45  | 0.8           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D  |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area |     |
| Bromo-Nitrobenzene | 672426         | 672426      | 0.0 |
| Hexabromobiphenyl  | 609723         | 609723      | 0.0 |

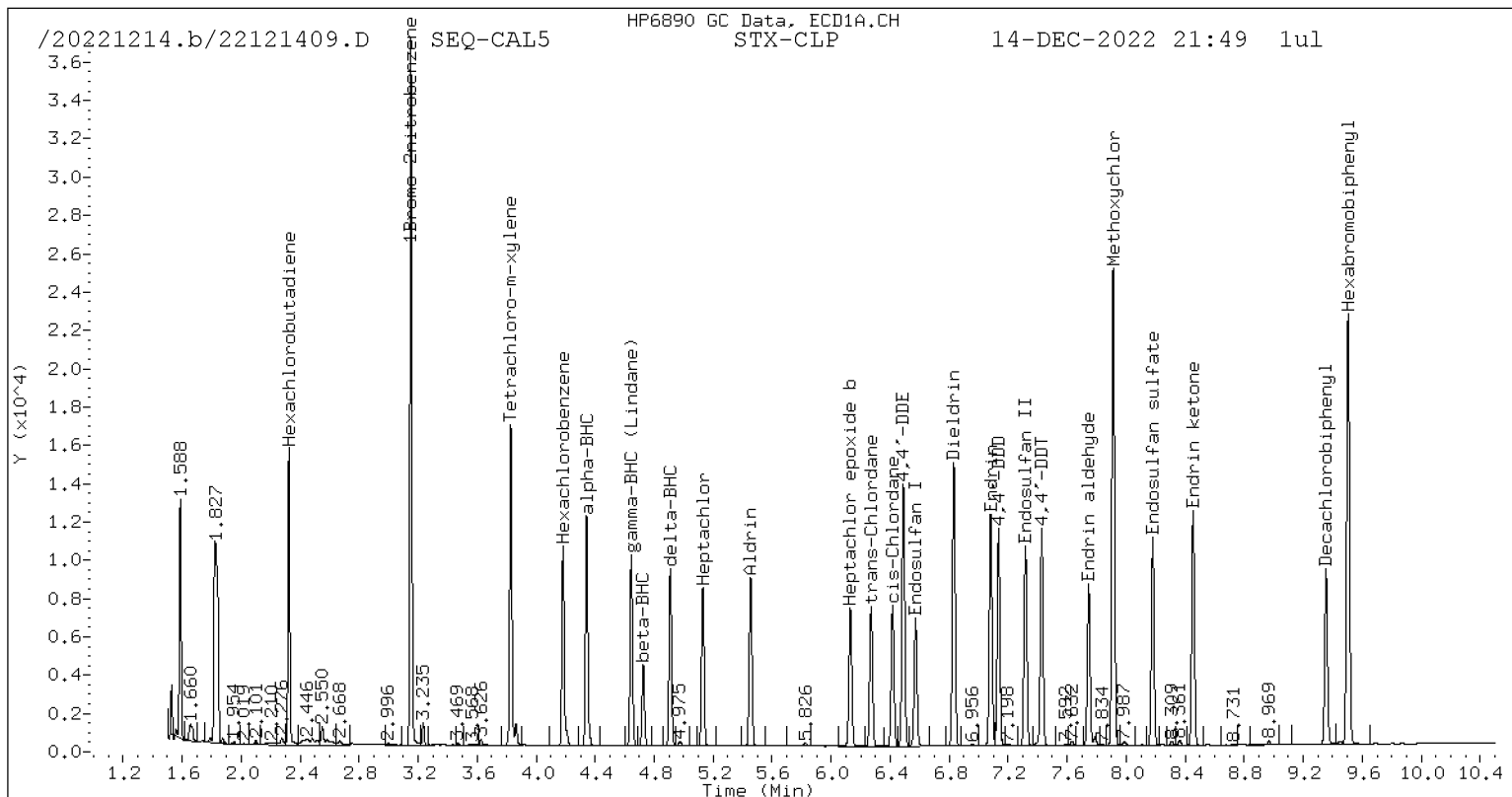
| Standard Cpnd      | Column 2       |             | %D  |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area |     |
| Bromo-Nitrobenzene | 1006482        | 1006482     | 0.0 |
| Hexabromobiphenyl  | 769764         | 769764      | 0.0 |

\* Standard Areas taken from Initial Cal Level 5

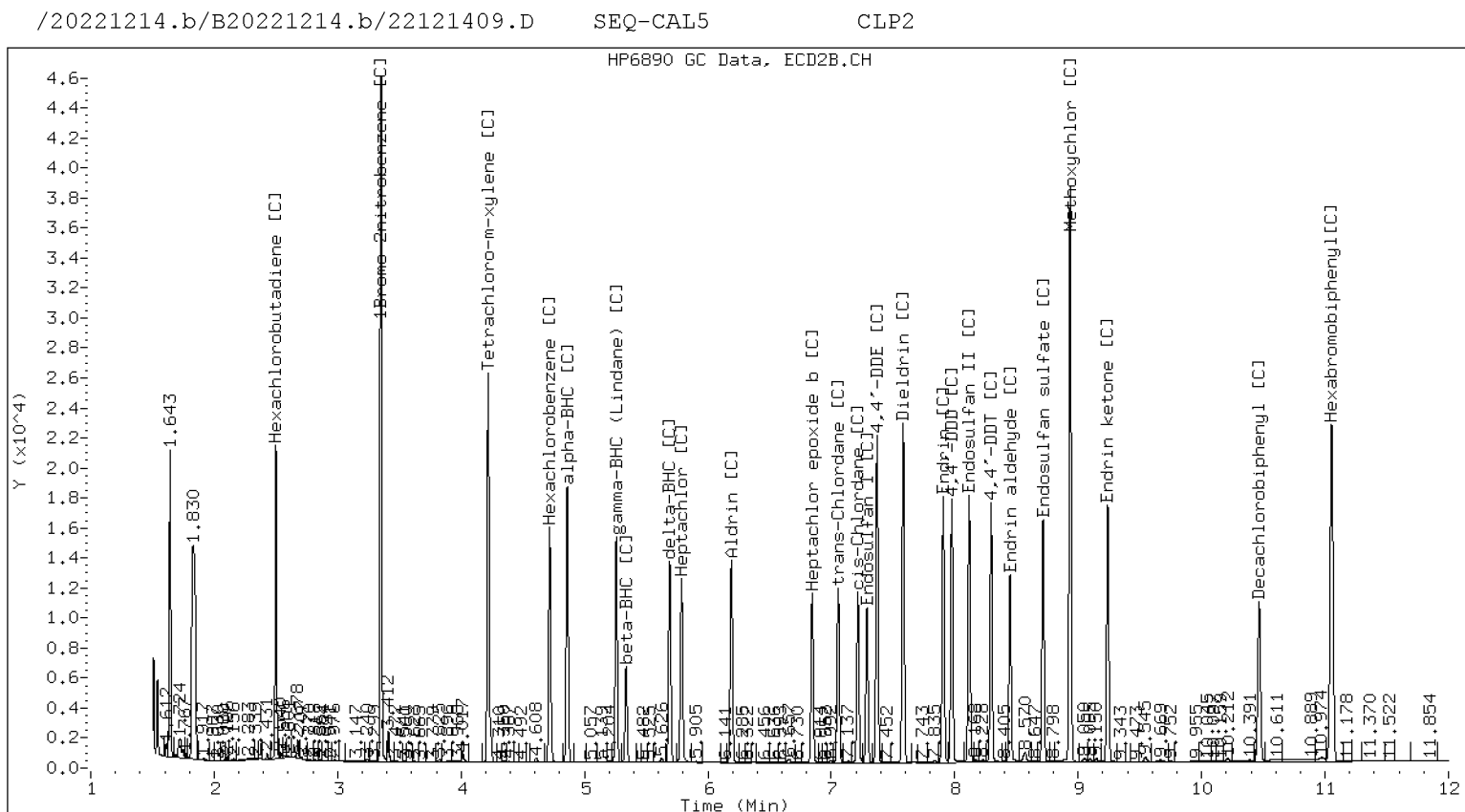
Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121409.D  
Data file 2: /20221214.b/B20221214.b/22121409.D  
Method: \20221214.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL5  
Client ID:  
Injection Date: 14-DEC-2022 21:49  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP  | CLP2 | RPD   | Compound/Flag |        |        |     |               |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT          | Shift    | Response | RT   | Shift | Response      | on col | on col | RPD | Compound/Flag |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121410.D  
Data file 2: /20221214.b/B20221214.b/22121410.D  
Method: \20221214.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL6  
Client ID:  
Injection Date: 14-DEC-2022 22:07  
Report Date: 12/16/2022 15:19  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT     | CLP2<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD    | Compound/Flag |                      |
|-------|-------------------------------|----------------------------|--------|------------------------|-------------------|----------------|--------|---------------|----------------------|
| 4.342 | 0.000                         | 535902                     | 4.860  | -0.000                 | 849533            | 39.69          | 40.30  | 1.5           | alpha-BHC            |
| 4.726 | 0.000                         | 198976                     | 5.337  | -0.000                 | 311218            | 38.28          | 38.84  | 1.4           | beta-BHC             |
| 4.910 | 0.000                         | 440370                     | 5.691  | 0.000                  | 700464            | 39.91          | 40.34  | 1.1           | delta-BHC            |
| 4.646 | 0.000                         | 461905                     | 5.258  | 0.000                  | 718675            | 39.46          | 40.18  | 1.8           | gamma-BHC (Lindane)  |
| 5.130 | 0.000                         | 401672                     | 5.787  | 0.000                  | 639345            | 38.56          | 39.46  | 2.3           | Heptachlor           |
| 5.454 | 0.000                         | 458396                     | 6.190  | -0.000                 | 720942            | 39.27          | 38.97  | 0.8           | Aldrin               |
| 6.130 | 0.000                         | 387273                     | 6.846  | 0.000                  | 586062            | 38.26          | 38.31  | 0.1           | Heptachlor epoxide b |
| 6.572 | -0.000                        | 354629                     | 7.288  | -0.001                 | 519836            | 38.18          | 38.55  | 1.0           | Endosulfan I         |
| 6.832 | 0.000                         | 755708                     | 7.582  | -0.000                 | 1126850           | 75.73          | 75.64  | 0.1           | Dieldrin             |
| 6.489 | 0.000                         | 698620                     | 7.371  | -0.000                 | 1040947           | 75.40          | 76.19  | 1.0           | 4,4'-DDE             |
| 7.082 | 0.000                         | 615481                     | 7.907  | -0.000                 | 858461            | 74.19          | 74.98  | 1.1           | Endrin               |
| 7.317 | 0.000                         | 590923                     | 8.117  | -0.000                 | 885035            | 79.12          | 75.41  | 4.8           | Endosulfan II        |
| 7.136 | 0.000                         | 565557                     | 7.976  | -0.000                 | 842536            | 75.67          | 75.65  | 0.0           | 4,4'-DDD             |
| 8.179 | -0.001                        | 540557                     | 8.715  | 0.000                  | 782860            | 76.22          | 75.96  | 0.3           | Endosulfan sulfate   |
| 7.427 | 0.000                         | 577337                     | 8.295  | -0.000                 | 820861            | 76.44          | 76.36  | 0.1           | 4,4'-DDT             |
| 7.912 | -0.000                        | 1204040                    | 8.935  | -0.001                 | 1785262           | 359.75         | 375.30 | 4.2           | Methoxychlor         |
| 8.453 | -0.001                        | 610387                     | 9.239  | -0.000                 | 843646            | 75.13          | 75.79  | 0.9           | Endrin ketone        |
| 7.746 | -0.000                        | 452325                     | 8.448  | 0.000                  | 622287            | 75.93          | 75.17  | 1.0           | Endrin aldehyde      |
| 6.271 | 0.000                         | 395598                     | 7.056  | -0.000                 | 591899            | 38.48          | 38.80  | 0.8           | trans-Chlordane      |
| 6.417 | 0.001                         | 389712                     | 7.215  | -0.000                 | 573103            | 37.80          | 38.40  | 1.6           | cis-Chlordane        |
| 2.324 | 0.000                         | 511265                     | 2.500  | -0.000                 | 705320            | 36.14          | 35.24  | 2.5           | Hexachlorobutadiene  |
| 4.183 | 0.001                         | 472841                     | 4.718  | 0.000                  | 728846            | 37.72          | 37.99  | 0.7           | Hexachlorobenzene    |
| 3.828 | -0.000                        | 714634                     | 4.221  | 0.000                  | 1124106           | 74.93          | 75.93  | 1.3           | Tetrachloro-m-xylene |
| 9.355 | -0.000                        | 468280                     | 10.466 | -0.001                 | 645336            | 73.03          | 72.51  | 0.7           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 710650         | 701342      | -1.3 |
| Hexabromobiphenyl  | 641833         | 632821      | -1.4 |

| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1058848        | 1051766     | -0.7 |
| Hexabromobiphenyl  | 797125         | 805268      | 1.0  |

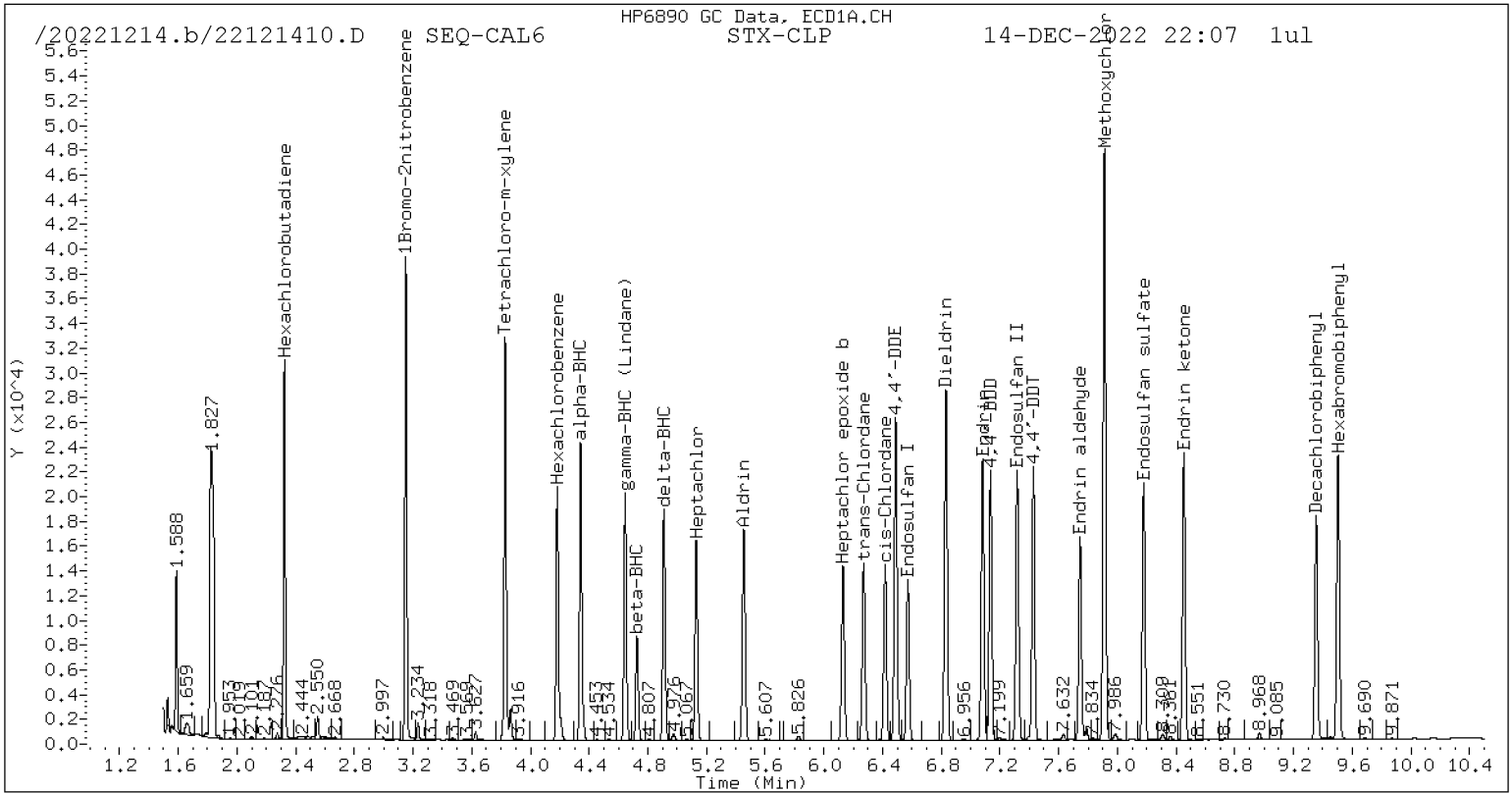
\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

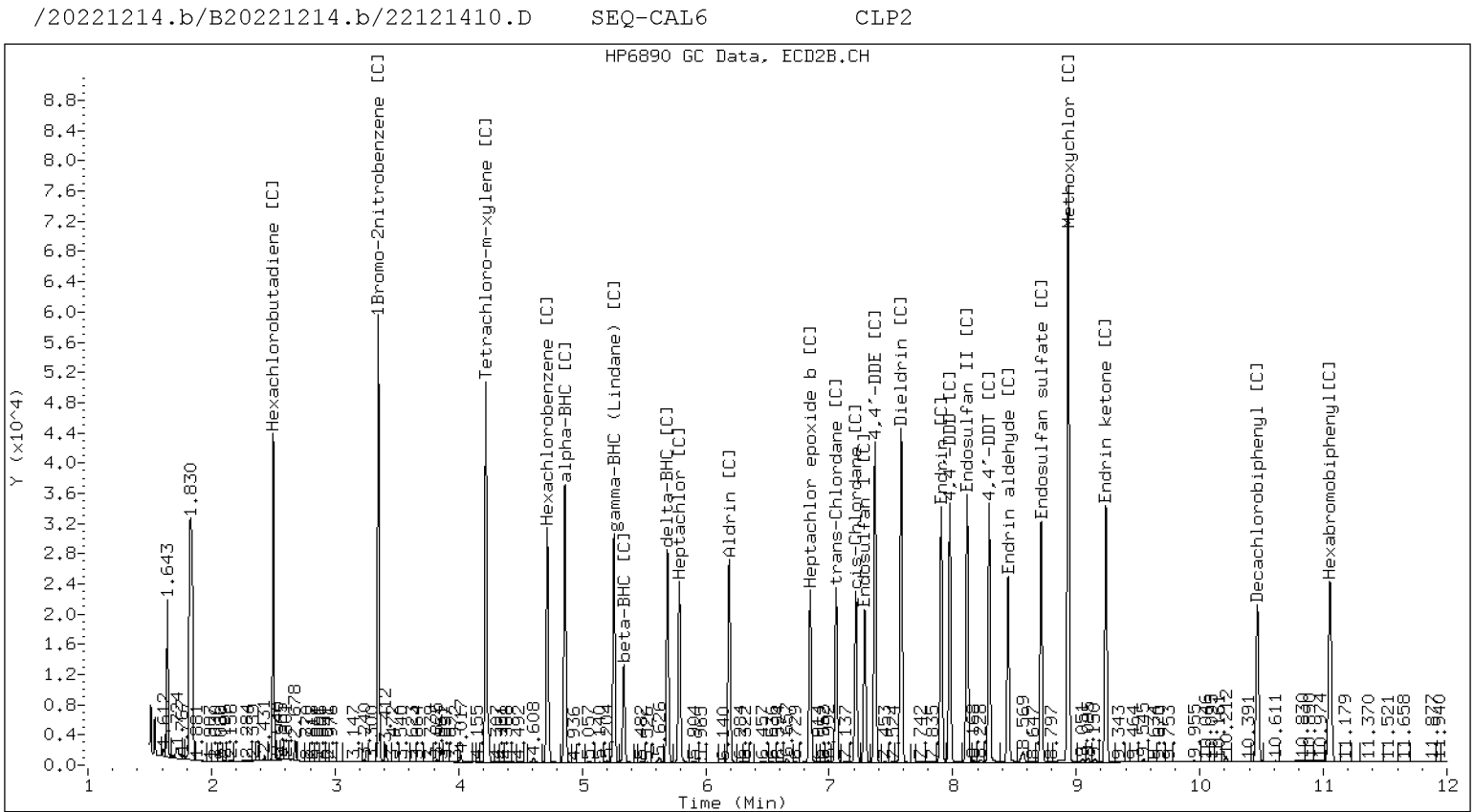
<- Indicates standard response outside Limits (-50 to +100%)



Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121410.D  
Data file 2: /20221214.b/B20221214.b/22121410.D  
Method: \20221214.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL6  
Client ID:  
Injection Date: 14-DEC-2022 22:07  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col |                | CLP2 Col |                | STX-CLP | CLP2   |     |               |
|-------------|----------------|----------|----------------|---------|--------|-----|---------------|
| RT          | Shift Response | RT       | Shift Response | on col  | on col | RPD | Compound/Flag |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121411.D  
Data file 2: /20221214.b/B20221214.b/22121411.D  
Method: \20221214.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL7  
Client ID:  
Injection Date: 14-DEC-2022 22:25  
Report Date: 12/16/2022 15:19  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col Shift Response | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD     | Compound/Flag                          |
|-------|----------------------------|-------------------------|----------------|-------------|---------|--|
| 4.342 | 0.000                      | 1012605                 | 4.861          | 0.000       | 1623058 | 75.30 77.94 3.4 alpha-BHC              |
| 4.726 | 0.000                      | 371916                  | 5.337          | 0.000       | 586390  | 71.84 74.06 3.1 beta-BHC               |
| 4.910 | 0.000                      | 837966                  | 5.691          | 0.000       | 1343533 | 76.25 78.32 2.7 delta-BHC              |
| 4.645 | -0.000                     | 870454                  | 5.258          | 0.000       | 1370551 | 74.66 77.55 3.8 gamma-BHC (Lindane)    |
| 5.130 | 0.000                      | 743802                  | 5.787          | 0.000       | 1188915 | 71.70 74.26 3.5 Heptachlor             |
| 5.454 | 0.000                      | 841598                  | 6.191          | 0.000       | 1331430 | 72.39 72.84 0.6 Aldrin                 |
| 6.130 | -0.000                     | 709774                  | 6.845          | 0.000       | 1087105 | 70.41 71.92 2.1 Heptachlor epoxide b   |
| 6.573 | 0.000                      | 652702                  | 7.289          | 0.000       | 969098  | 70.56 72.74 3.1 Endosulfan I           |
| 6.832 | 0.000                      | 1390496                 | 7.583          | 0.000       | 2118555 | 139.91 143.93 2.8 Dieldrin             |
| 6.490 | 0.001                      | 1284777                 | 7.371          | 0.000       | 1944530 | 139.23 144.06 3.4 4,4'-DDE             |
| 7.082 | 0.001                      | 1132487                 | 7.907          | 0.000       | 1618631 | 137.86 142.60 3.4 Endrin               |
| 7.317 | 0.000                      | 1089554                 | 8.117          | 0.000       | 1672946 | 147.33 143.79 2.4 Endosulfan II        |
| 7.135 | 0.000                      | 1051958                 | 7.976          | 0.000       | 1606815 | 142.14 145.53 2.4 4,4'-DDD             |
| 8.180 | 0.000                      | 1013288                 | 8.715          | 0.000       | 1496440 | 144.30 146.47 1.5 Endosulfan sulfate   |
| 7.428 | 0.001                      | 1086138                 | 8.295          | 0.000       | 1586078 | 145.23 148.84 2.5 4,4'-DDT             |
| 7.912 | 0.001                      | 2325261                 | 8.936          | 0.000       | 3541650 | 701.64 751.02 6.8 Methoxychlor         |
| 8.454 | 0.000                      | 1146784                 | 9.240          | 0.000       | 1623077 | 142.56 147.08 3.1 Endrin ketone        |
| 7.746 | -0.000                     | 846477                  | 8.448          | 0.000       | 1178353 | 143.51 143.57 0.0 Endrin aldehyde      |
| 6.271 | 0.000                      | 733514                  | 7.056          | 0.000       | 1114685 | 71.64 73.95 3.2 trans-Chlordane        |
| 6.417 | 0.001                      | 723886                  | 7.216          | 0.000       | 1079255 | 70.50 73.19 3.7 cis-Chlordane          |
| 2.324 | 0.000                      | 955982                  | 2.501          | 0.000       | 1351745 | 67.86 68.35 0.7 Hexachlorobutadiene    |
| 4.182 | 0.000                      | 879573                  | 4.718          | 0.000       | 1355289 | 70.45 71.51 1.5 Hexachlorobenzene      |
| 3.828 | 0.000                      | 1318381                 | 4.220          | 0.000       | 2067539 | 138.79 141.35 1.8 Tetrachloro-m-xylene |
| 9.356 | 0.000                      | 878340                  | 10.467         | 0.000       | 1231298 | 138.34 139.55 0.9 Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 710650         | 698499      | -1.7 |
| Hexabromobiphenyl  | 641833         | 626605      | -2.4 |

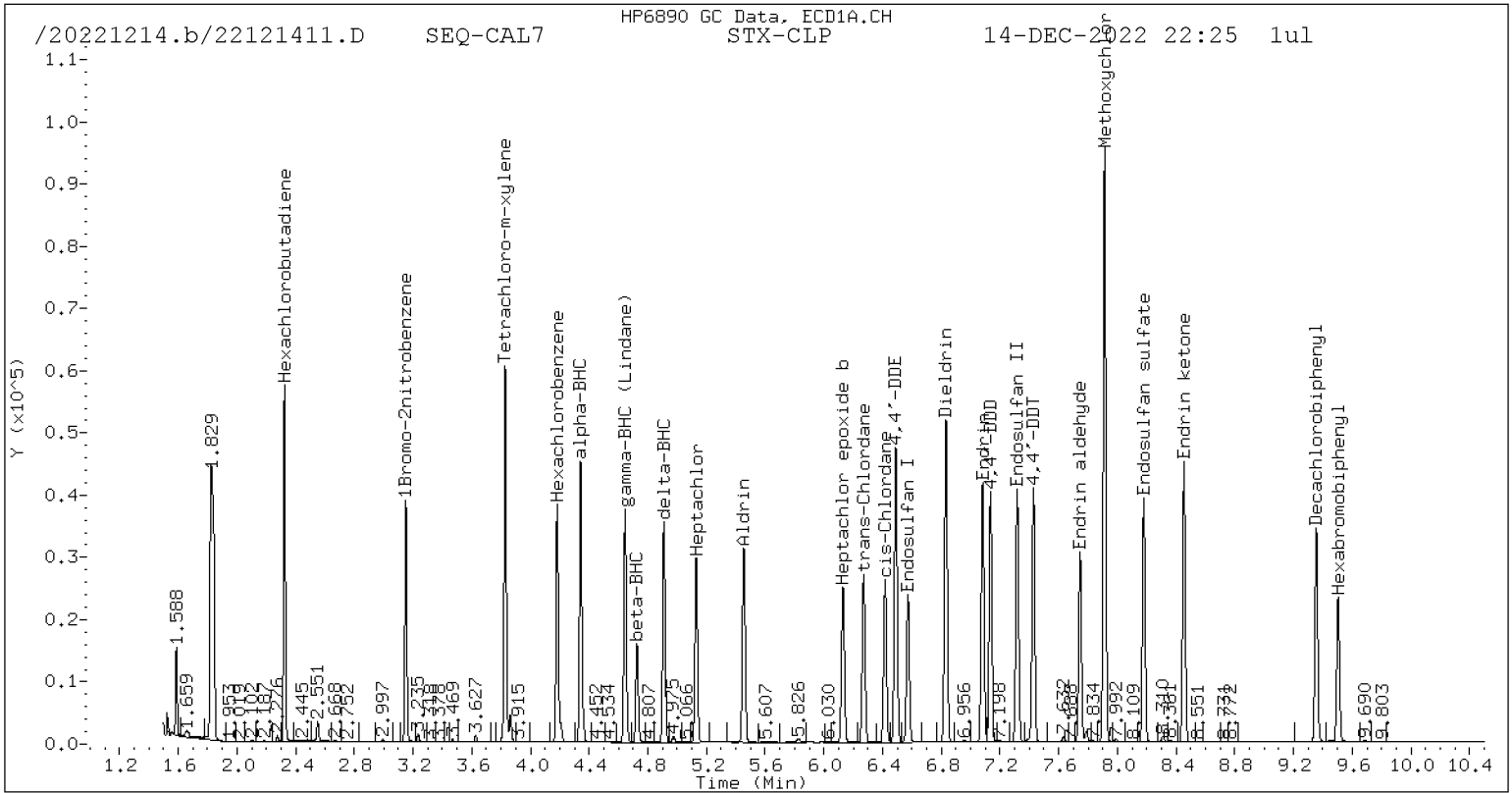
| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1058848        | 1039154     | -1.9 |
| Hexabromobiphenyl  | 797125         | 798313      | 0.1  |

\* Standard Areas taken from Initial Cal Level 5

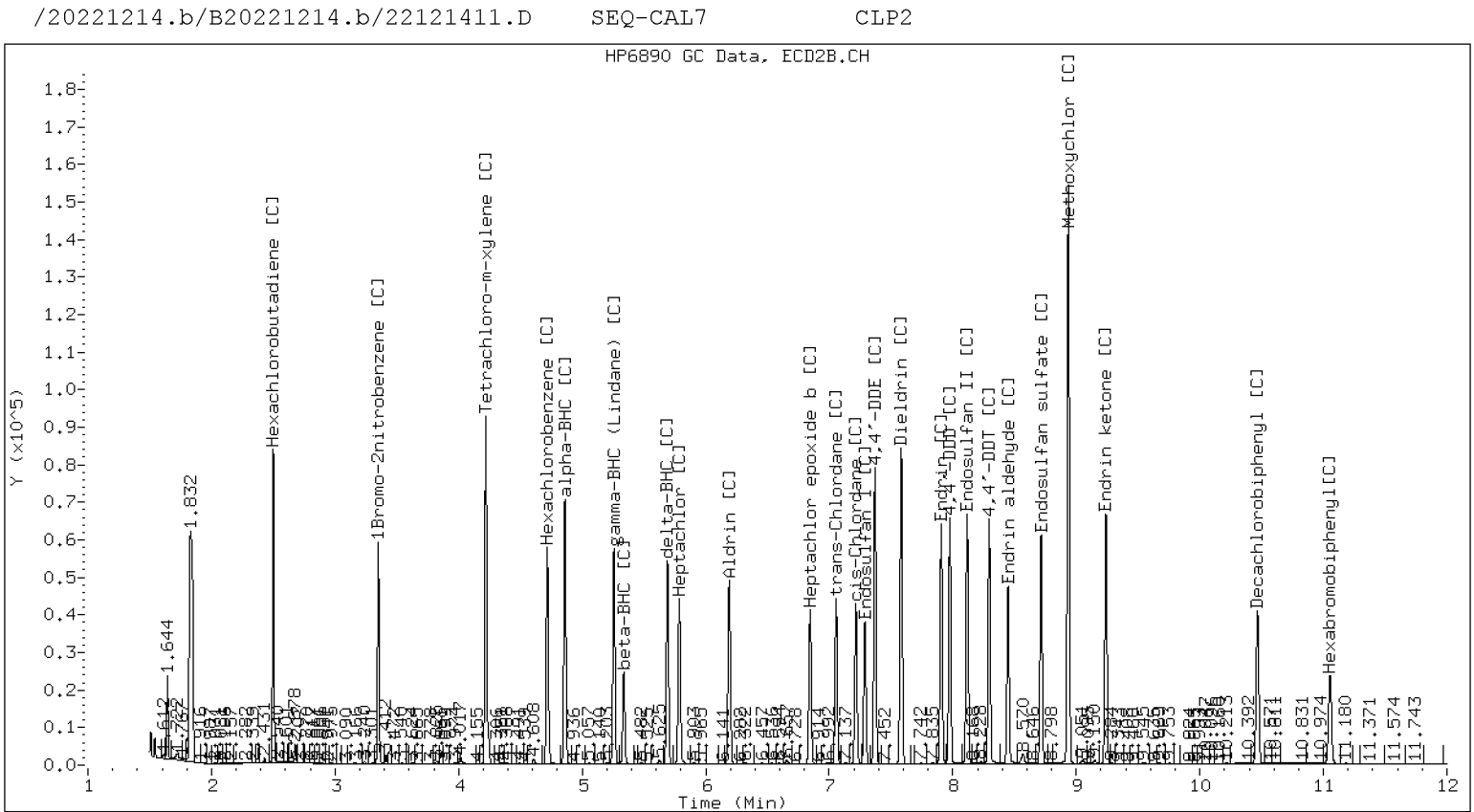
Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121411.D  
Data file 2: /20221214.b/B20221214.b/22121411.D  
Method: \20221214.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL7  
Client ID:  
Injection Date: 14-DEC-2022 22:25  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP  | CLP2 | RPD   | Compound/Flag |        |        |     |               |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT          | Shift    | Response | RT   | Shift | Response      | on col | on col | RPD | Compound/Flag |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121412.D  
 Data file 2: /20221214.b/B20221214.b/22121412.D  
 Method: \20221214.b\PEST.m  
 Compound Sublist: WND.sub  
 Instrument, Inj. Vol.: ecd6.i, 1ul  
 Operator: JGR

ARI ID: SEQ-CAL8  
 Client ID:  
 Injection Date: 14-DEC-2022 22:43  
 Report Date: 12/16/2022 15:19  
 Units: ng/mL  
 Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT    | CLP2 Col<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD  | Compound/Flag |                      |
|-------|-------------------------------|----------------------------|-------|----------------------------|-------------------|----------------|------|---------------|----------------------|
| 6.014 | -0.000                        | 22184                      | 6.741 | -0.000                     | 34211             | 2.89           | 2.85 | 1.2           | Oxychlorthane        |
| 6.106 | -0.000                        | 18661                      | 7.036 | -0.000                     | 30817             | 2.94           | 3.14 | 6.5           | 2,4-DDE              |
| 6.397 | -0.000                        | 30616                      | 7.154 | -0.001                     | 41466             | 3.05           | 2.82 | 7.5           | trans-Nonachlor      |
| 6.681 | 0.000                         | 16263                      | 7.591 | 0.000                      | 26177             | 2.88           | 3.12 | 7.9           | 2,4-DDD              |
| 6.956 | -0.001                        | 17569                      | 7.913 | -0.000                     | 24398             | 2.88           | 2.82 | 2.1           | 2,4-DDT              |
| 7.112 | -0.000                        | 29417                      | 7.975 | -0.000                     | 37972             | 3.01           | 2.72 | 9.9           | cis-Nonachlor        |
| 8.082 | -0.000                        | 18819                      | 9.223 | -0.000                     | 24312             | 3.09           | 3.00 | 3.1           | Mirex                |
| ----  |                               |                            | ----  |                            |                   | 0.00           | 0.00 | ---           | Tetrachloro-m-xylene |
| ----  |                               |                            | ----  |                            |                   | 0.00           | 0.00 | ---           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D  |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area |     |
| Bromo-Nitrobenzene | 710650         | 713898      | 0.5 |
| Hexabromobiphenyl  | 641833         | 646441      | 0.7 |

| Standard Cpnd      | Column 2       |             | %D  |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area |     |
| Bromo-Nitrobenzene | 1058848        | 1076864     | 1.7 |
| Hexabromobiphenyl  | 797125         | 820275      | 2.9 |

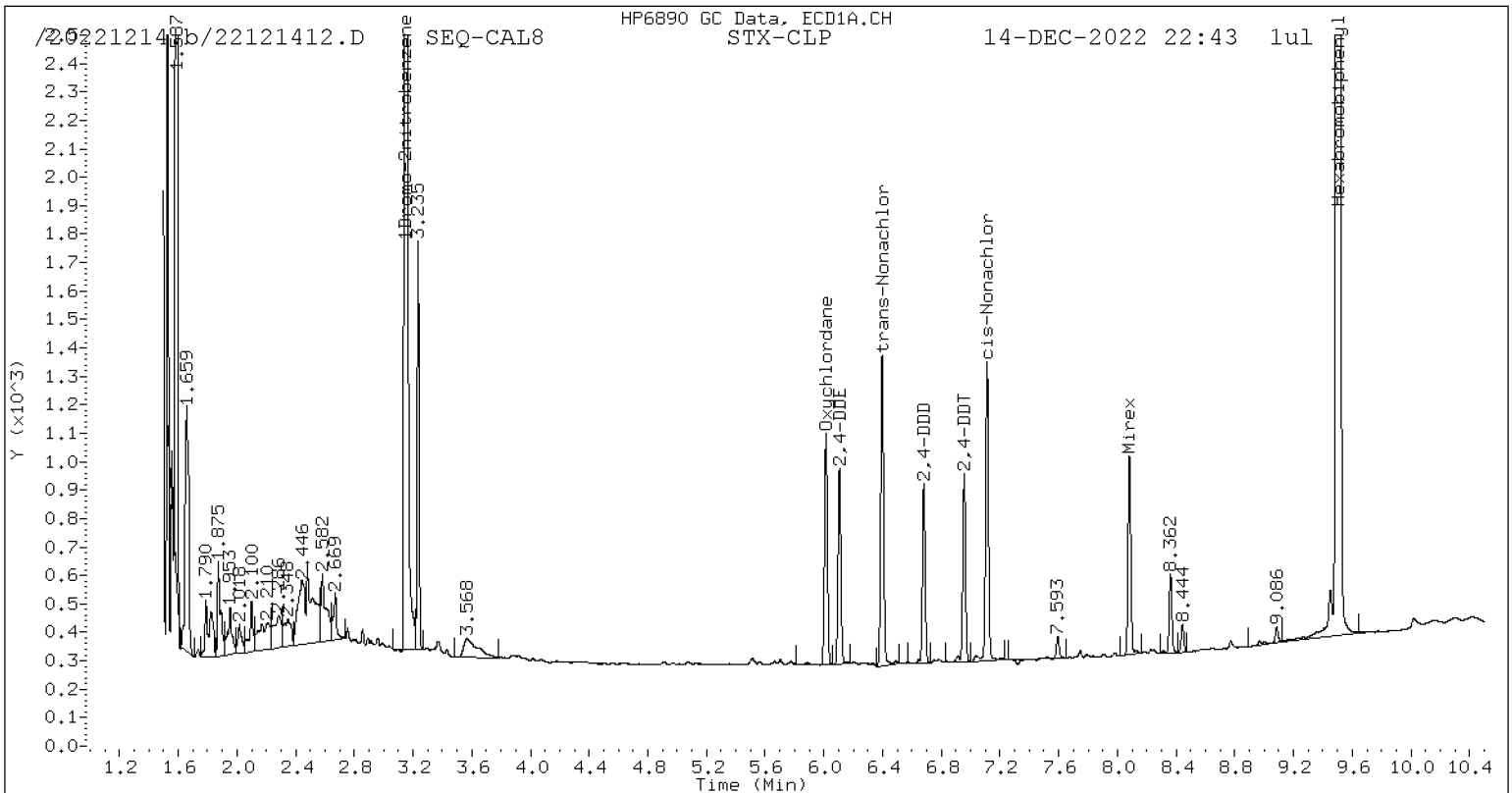
\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

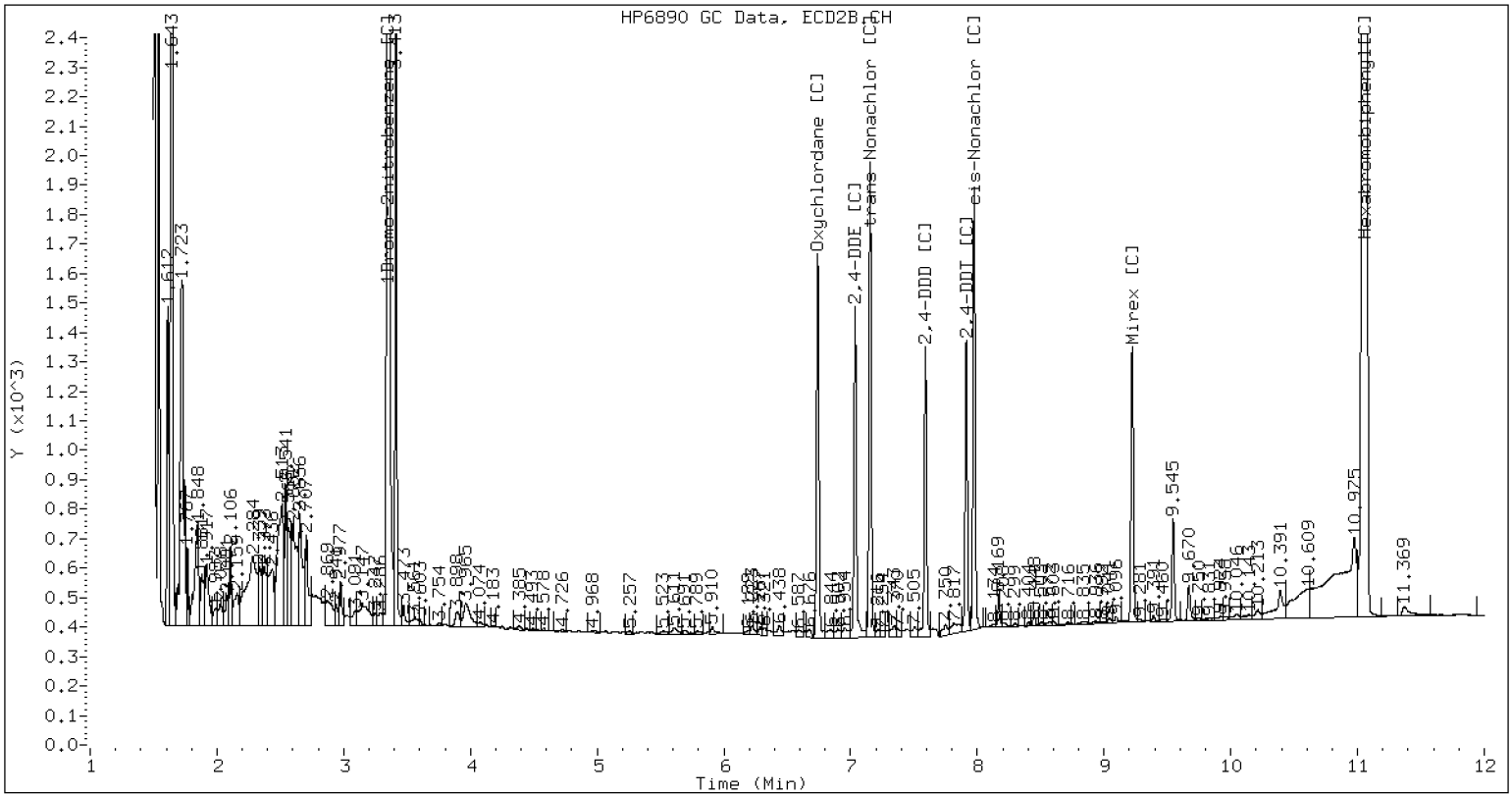


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121412.D SEQ-CAL8 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121412.D  
Data file 2: /20221214.b/B20221214.b/22121412.D  
Method: \20221214.b\PEST.m  
Compound Sublist: WND.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL8  
Client ID:  
Injection Date: 14-DEC-2022 22:43  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col       | STX-CLP | CLP2           | RPD    | Compound/Flag |  |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT          | Shift Response | RT      | Shift Response | on col | on col        |  |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121413.D  
Data file 2: /20221214.b/B20221214.b/22121413.D  
Method: \20221214.b\PEST.m  
Compound Sublist: WND.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL9  
Client ID:  
Injection Date: 14-DEC-2022 23:01  
Report Date: 12/16/2022 15:19  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT    | STX-CLP<br>on col | CLP2<br>on col | RPD | Compound/Flag        |
|-------|-------------------------------|----------------------------|-------|-------------------|----------------|-----|----------------------|
| 6.015 | 0.000 39121                   | 6.741 -0.000 61505         | 6.741 | 5.34              | 5.41           | 1.3 | Oxychlorthane        |
| 6.106 | 0.000 33487                   | 7.036 -0.000 53206         | 7.036 | 5.54              | 5.72           | 3.1 | 2,4-DDE              |
| 6.398 | 0.000 51858                   | 7.154 -0.001 72836         | 7.154 | 5.42              | 5.20           | 4.1 | trans-Nonachlor      |
| 6.681 | 0.000 29307                   | 7.590 -0.000 44506         | 7.590 | 5.45              | 5.55           | 1.9 | 2,4-DDD              |
| 6.957 | -0.000 31530                  | 7.914 0.000 45986          | 7.914 | 5.43              | 5.57           | 2.6 | 2,4-DDT              |
| 7.112 | -0.000 50912                  | 7.975 0.000 70898          | 7.975 | 5.46              | 5.32           | 2.6 | cis-Nonachlor        |
| 8.082 | -0.000 32004                  | 9.223 -0.000 45650         | 9.223 | 5.52              | 5.89           | 6.6 | Mirex                |
| ----  |                               | ----                       |       | 0.00              | 0.00           | --- | Tetrachloro-m-xylene |
| ----  |                               | ----                       |       | 0.00              | 0.00           | --- | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 710650         | 672507      | -5.4 |
| Hexabromobiphenyl  | 641833         | 615627      | -4.1 |

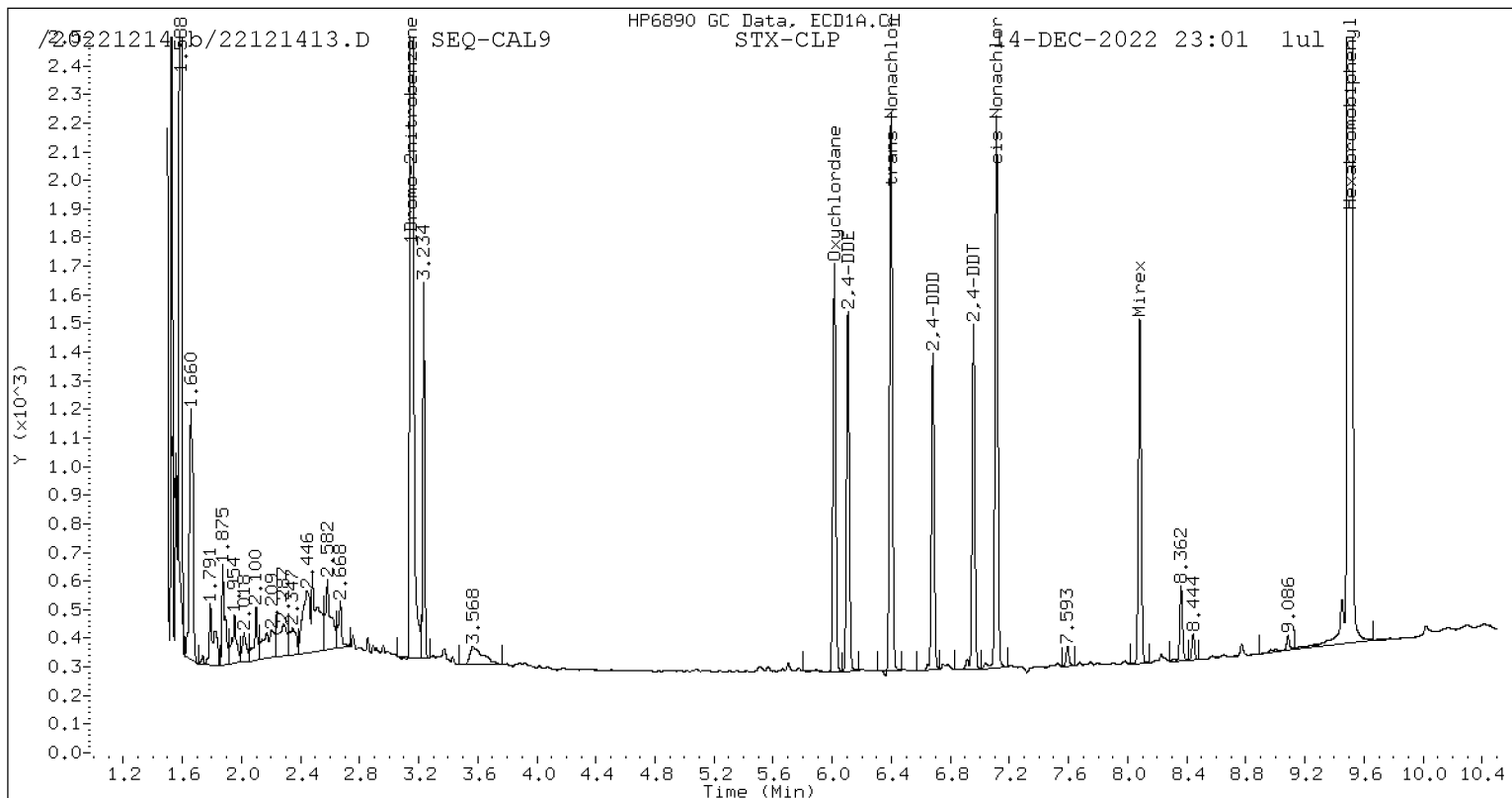
| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1058848        | 1020334     | -3.6 |
| Hexabromobiphenyl  | 797125         | 782734      | -1.8 |

\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

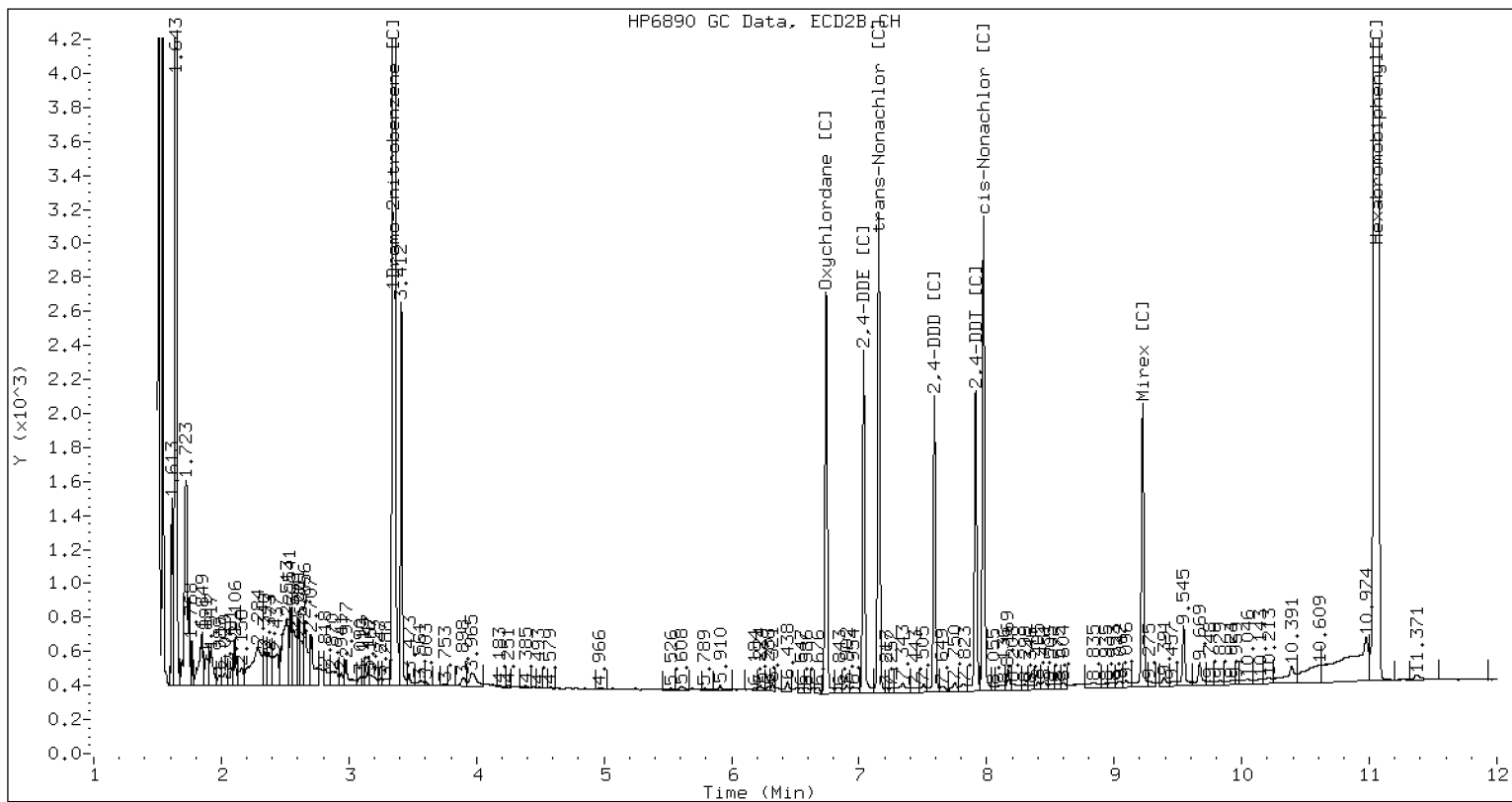
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121413.D SEQ-CAL9 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121413.D  
Data file 2: /20221214.b/B20221214.b/22121413.D  
Method: \20221214.b\PEST.m  
Compound Sublist: WND.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL9  
Client ID:  
Injection Date: 14-DEC-2022 23:01  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col       | STX-CLP | CLP2           | RPD    | Compound/Flag |  |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT          | Shift Response | RT      | Shift Response | on col | on col        |  |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121414.D  
Data file 2: /20221214.b/B20221214.b/22121414.D  
Method: \20221214.b\PEST.m  
Compound Sublist: WND.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CALA  
Client ID:  
Injection Date: 14-DEC-2022 23:19  
Report Date: 12/16/2022 15:19  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT    | STX-CLP<br>on col | CLP2<br>on col | RPD   | Compound/Flag |     |                      |
|-------|-------------------------------|----------------------------|-------|-------------------|----------------|-------|---------------|-----|----------------------|
| 6.014 | -0.000                        | 82473                      | 6.741 | -0.001            | 127500         | 10.63 | 10.63         | 0.0 | Oxychlorthane        |
| 6.106 | -0.000                        | 69109                      | 7.035 | -0.001            | 108440         | 10.79 | 11.04         | 2.3 | 2,4-DDE              |
| 6.398 | 0.000                         | 108386                     | 7.154 | -0.001            | 157712         | 10.68 | 10.60         | 0.7 | trans-Nonachlor      |
| 6.681 | 0.000                         | 60517                      | 7.590 | -0.000            | 91420          | 10.62 | 10.74         | 1.2 | 2,4-DDD              |
| 6.956 | -0.001                        | 65300                      | 7.913 | 0.000             | 91498          | 10.61 | 10.44         | 1.6 | 2,4-DDT              |
| 7.111 | -0.001                        | 104247                     | 7.975 | -0.000            | 146224         | 10.55 | 10.34         | 2.0 | cis-Nonachlor        |
| 8.082 | -0.000                        | 65614                      | 9.222 | -0.000            | 84337          | 10.67 | 10.25         | 4.0 | Mirex                |
| ----  |                               |                            | ----  |                   |                | 0.00  | 0.00          | --- | Tetrachloro-m-xylene |
| ----  |                               |                            | ----  |                   |                | 0.00  | 0.00          | --- | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D  |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area |     |
| Bromo-Nitrobenzene | 710650         | 712122      | 0.2 |
| Hexabromobiphenyl  | 641833         | 652595      | 1.7 |

| Standard Cpnd      | Column 2       |             | %D  |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area |     |
| Bromo-Nitrobenzene | 1058848        | 1077341     | 1.7 |
| Hexabromobiphenyl  | 797125         | 831365      | 4.3 |

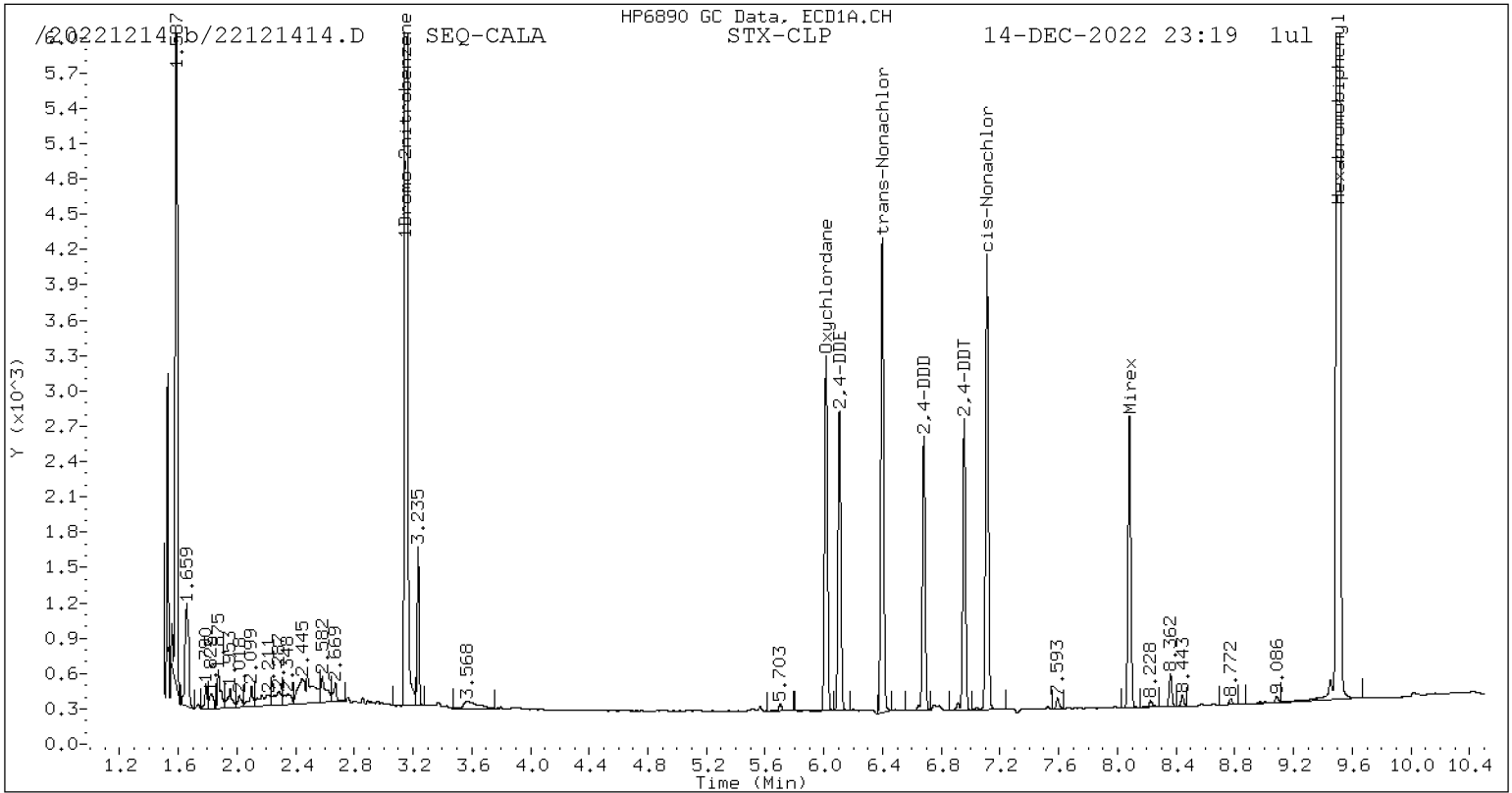
\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

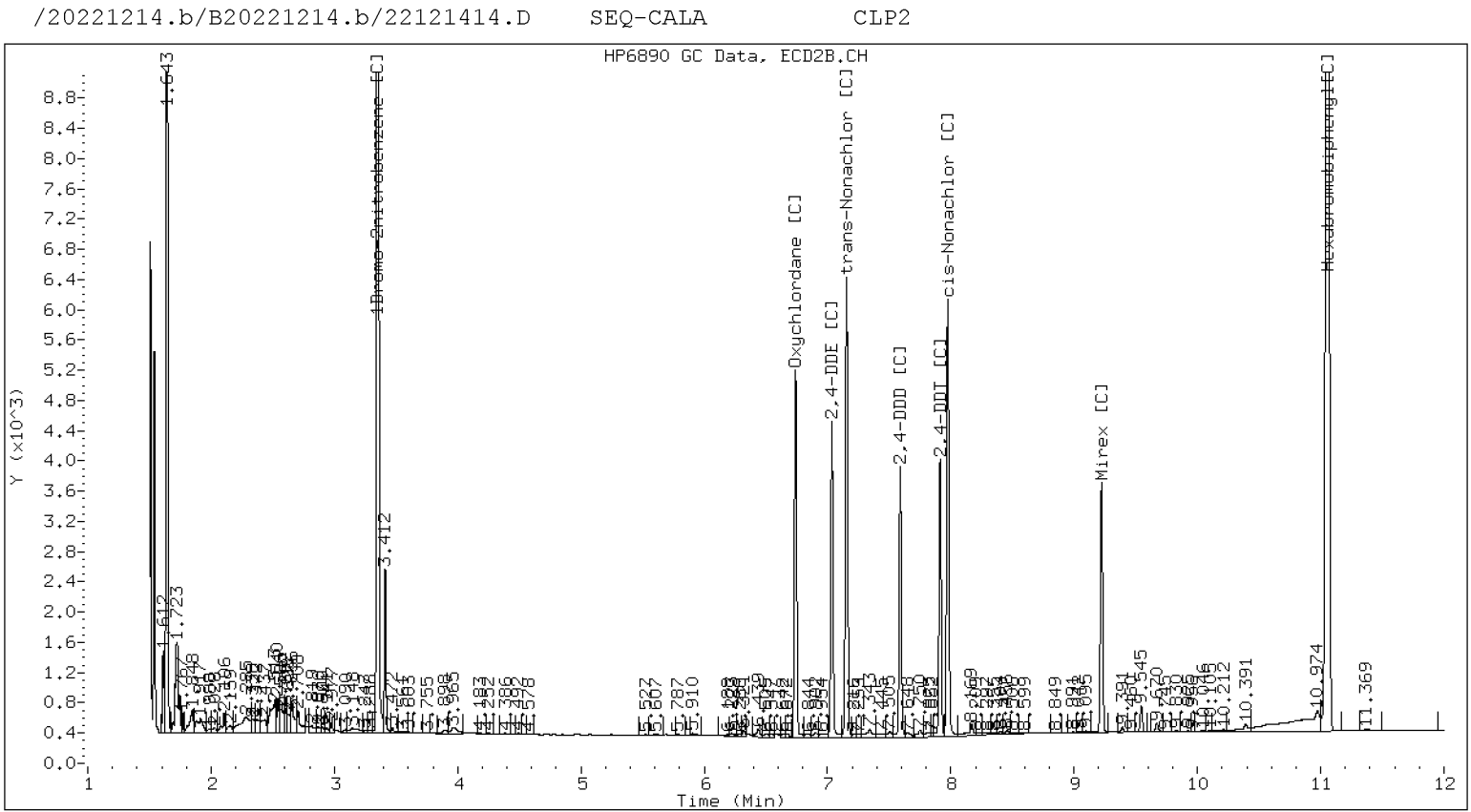
<- Indicates standard response outside Limits (-50 to +100%)



Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121414.D  
Data file 2: /20221214.b/B20221214.b/22121414.D  
Method: \20221214.b\PEST.m  
Compound Sublist: WND.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CALA  
Client ID:  
Injection Date: 14-DEC-2022 23:19  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP  | CLP2 | RPD   | Compound/Flag |        |        |     |               |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT          | Shift    | Response | RT   | Shift | Response      | on col | on col | RPD | Compound/Flag |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121415.D  
Data file 2: /20221214.b/B20221214.b/22121415.D  
Method: \20221214.b\PEST.m  
Compound Sublist: WND.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CALB  
Client ID:  
Injection Date: 14-DEC-2022 23:36  
Report Date: 12/16/2022 15:19  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Response | RT    | CLP2 Col<br>Shift Response | Response | STX-CLP<br>on col | CLP2<br>on col | RPD | Compound/Flag        |
|-------|-------------------------------|----------------------|-------|----------------------------|----------|-------------------|----------------|-----|----------------------|
| 6.015 | 0.001                         | 154379               | 6.741 | -0.000                     | 238017   | 20.80             | 20.28          | 2.5 | Oxychlorthane        |
| 6.106 | -0.000                        | 128483               | 7.036 | -0.000                     | 195807   | 20.97             | 20.37          | 2.9 | 2,4-DDE              |
| 6.398 | 0.000                         | 200622               | 7.155 | -0.000                     | 289952   | 20.66             | 20.28          | 1.9 | trans-Nonachlor      |
| 6.681 | 0.000                         | 113972               | 7.591 | 0.000                      | 165245   | 20.90             | 20.21          | 3.4 | 2,4-DDD              |
| 6.956 | -0.001                        | 122412               | 7.913 | 0.000                      | 169814   | 20.78             | 20.17          | 3.0 | 2,4-DDT              |
| 7.112 | -0.000                        | 194165               | 7.975 | -0.000                     | 274910   | 20.54             | 20.23          | 1.5 | cis-Nonachlor        |
| 8.082 | -0.000                        | 119271               | 9.223 | 0.000                      | 158702   | 20.28             | 20.08          | 1.0 | Mirex                |
| ----  |                               |                      | ----  |                            |          | 0.00              | 0.00           | --- | Tetrachloro-m-xylene |
| ----  |                               |                      | ----  |                            |          | 0.00              | 0.00           | --- | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 710650         | 693450      | -2.4 |
| Hexabromobiphenyl  | 641833         | 624334      | -2.7 |

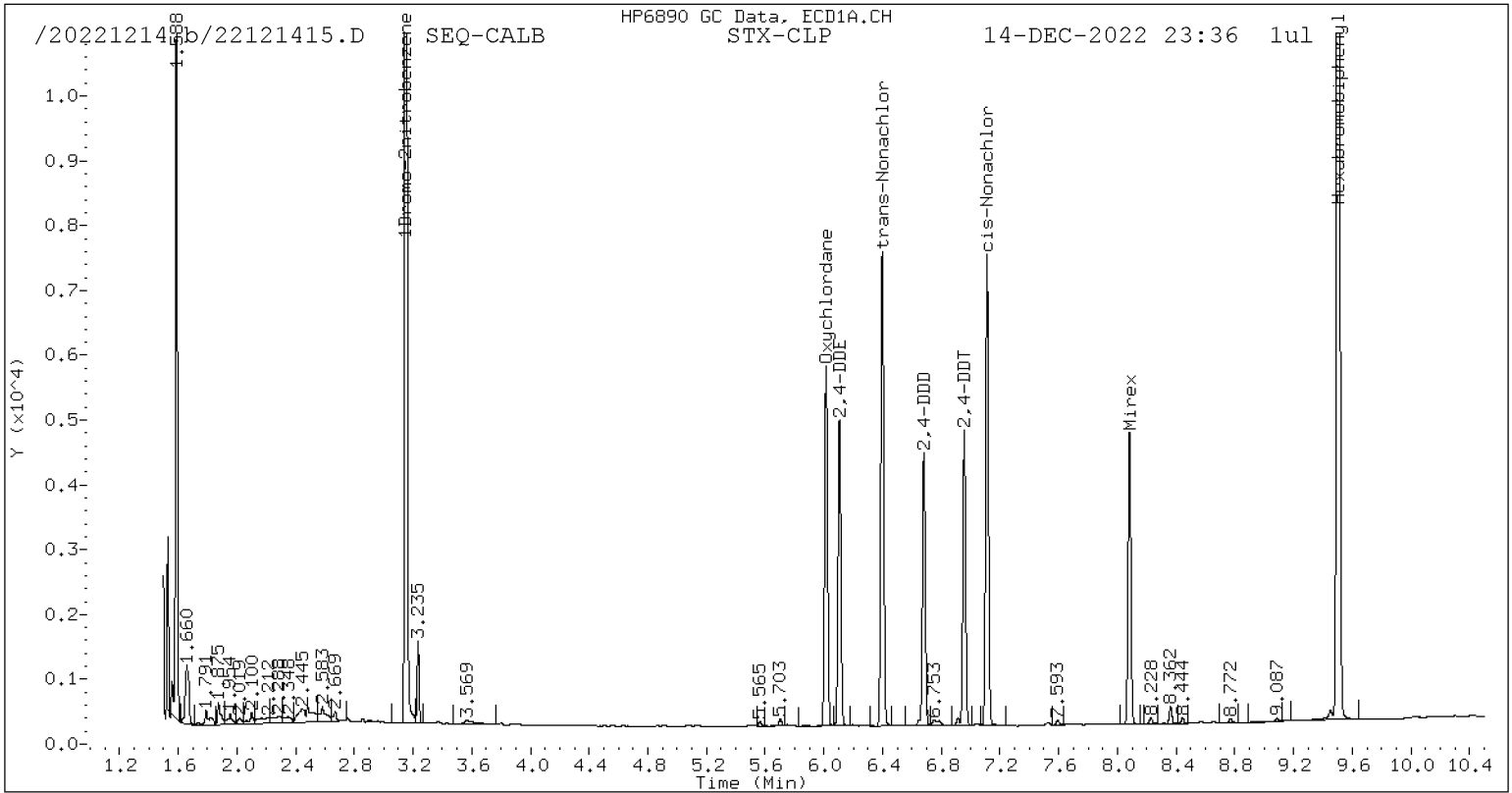
| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1058848        | 1053959     | -0.5 |
| Hexabromobiphenyl  | 797125         | 798882      | 0.2  |

\* Standard Areas taken from Initial Cal Level 5

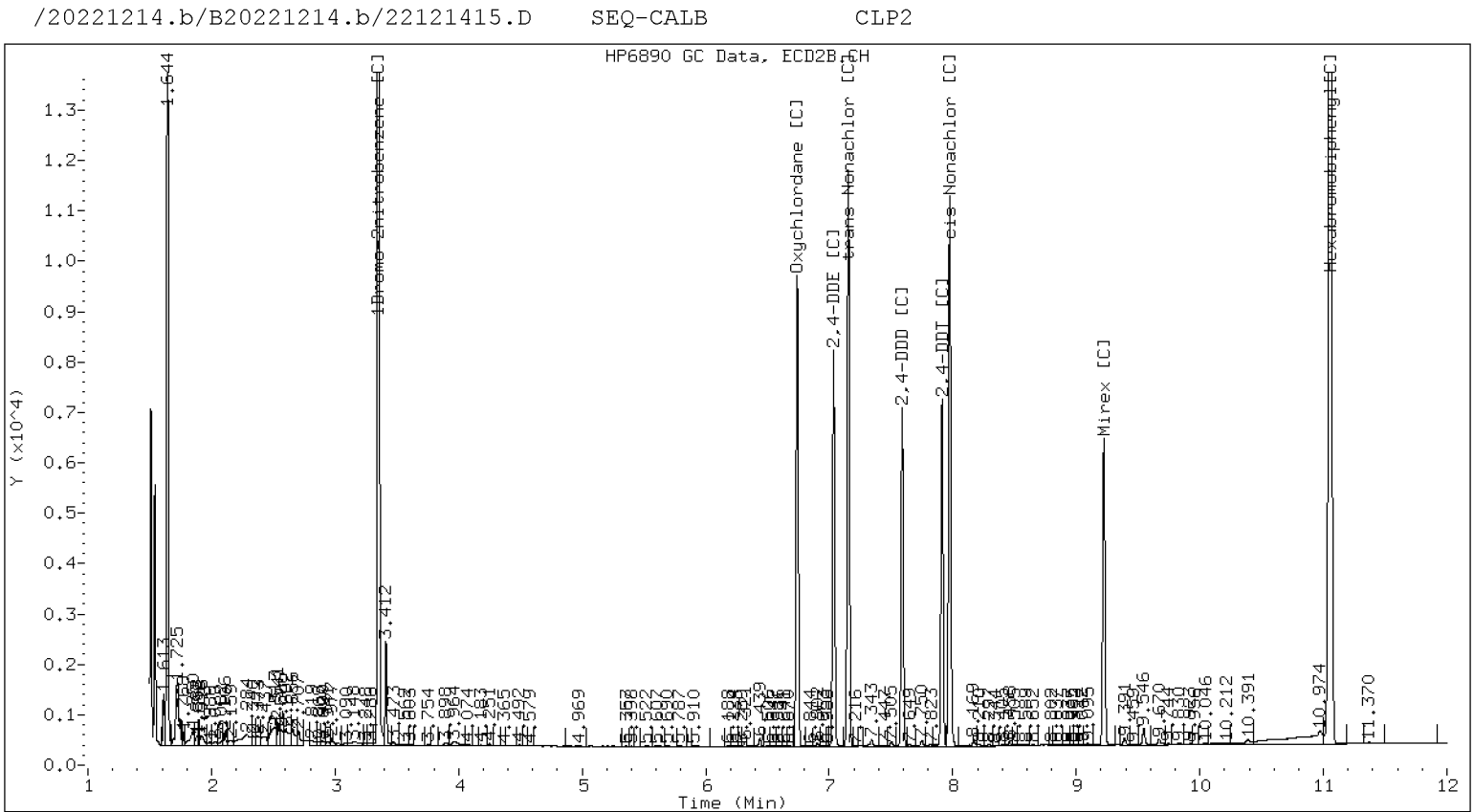
Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121415.D  
Data file 2: /20221214.b/B20221214.b/22121415.D  
Method: \20221214.b\PEST.m  
Compound Sublist: WND.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CALB  
Client ID:  
Injection Date: 14-DEC-2022 23:36  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP  | CLP2 | RPD   | Compound/Flag |        |        |     |               |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT          | Shift    | Response | RT   | Shift | Response      | on col | on col | RPD | Compound/Flag |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121416.D  
Data file 2: /20221214.b/B20221214.b/22121416.D  
Method: \20221214.b\PEST.m  
Compound Sublist: WND.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CALC  
Client ID:  
Injection Date: 14-DEC-2022 23:54  
Report Date: 12/16/2022 15:19  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col |        |          | CLP2 Col |        |          | STX-CLP | CLP2   | RPD | Compound/Flag        |
|-------------|--------|----------|----------|--------|----------|---------|--------|-----|----------------------|
| RT          | Shift  | Response | RT       | Shift  | Response | on col  | on col |     |                      |
| 6.014       | 0.000  | 292499   | 6.741    | -0.000 | 460731   | 40.08   | 40.26  | 0.4 | Oxychlorane          |
| 6.106       | 0.000  | 242066   | 7.036    | -0.000 | 372996   | 40.18   | 39.80  | 0.9 | 2,4-DDE              |
| 6.397       | 0.000  | 383329   | 7.154    | -0.001 | 567971   | 40.16   | 40.45  | 0.7 | trans-Nonachlor      |
| 6.681       | 0.000  | 216474   | 7.590    | -0.000 | 320311   | 40.39   | 39.88  | 1.3 | 2,4-DDD              |
| 6.957       | 0.000  | 233738   | 7.913    | -0.000 | 332906   | 40.36   | 40.25  | 0.3 | 2,4-DDT              |
| 7.112       | 0.000  | 373705   | 7.975    | -0.000 | 538334   | 40.21   | 40.33  | 0.3 | cis-Nonachlor        |
| 8.082       | 0.000  | 229604   | 9.222    | -0.000 | 299228   | 39.71   | 38.54  | 3.0 | Mirex                |
| 3.800       | -0.028 | 1151     | ----     |        |          | 0.13    | 0.00   | --- | Tetrachloro-m-xylene |
| ----        |        |          | ----     |        |          | 0.00    | 0.00   | --- | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 710650         | 674573      | -5.1 |
| Hexabromobiphenyl  | 641833         | 613787      | -4.4 |

| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1058848        | 1027697     | -2.9 |
| Hexabromobiphenyl  | 797125         | 784673      | -1.6 |

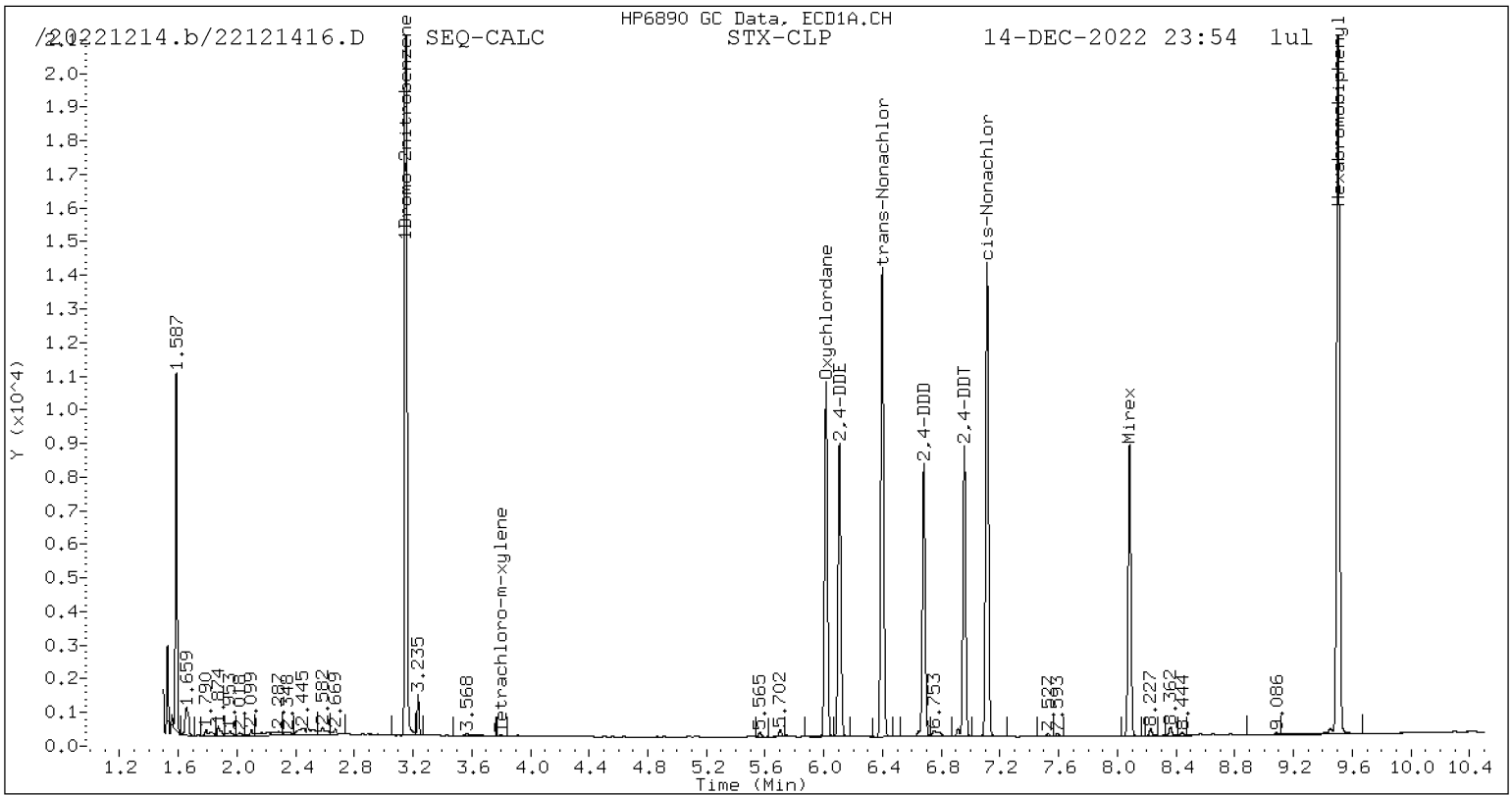
\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

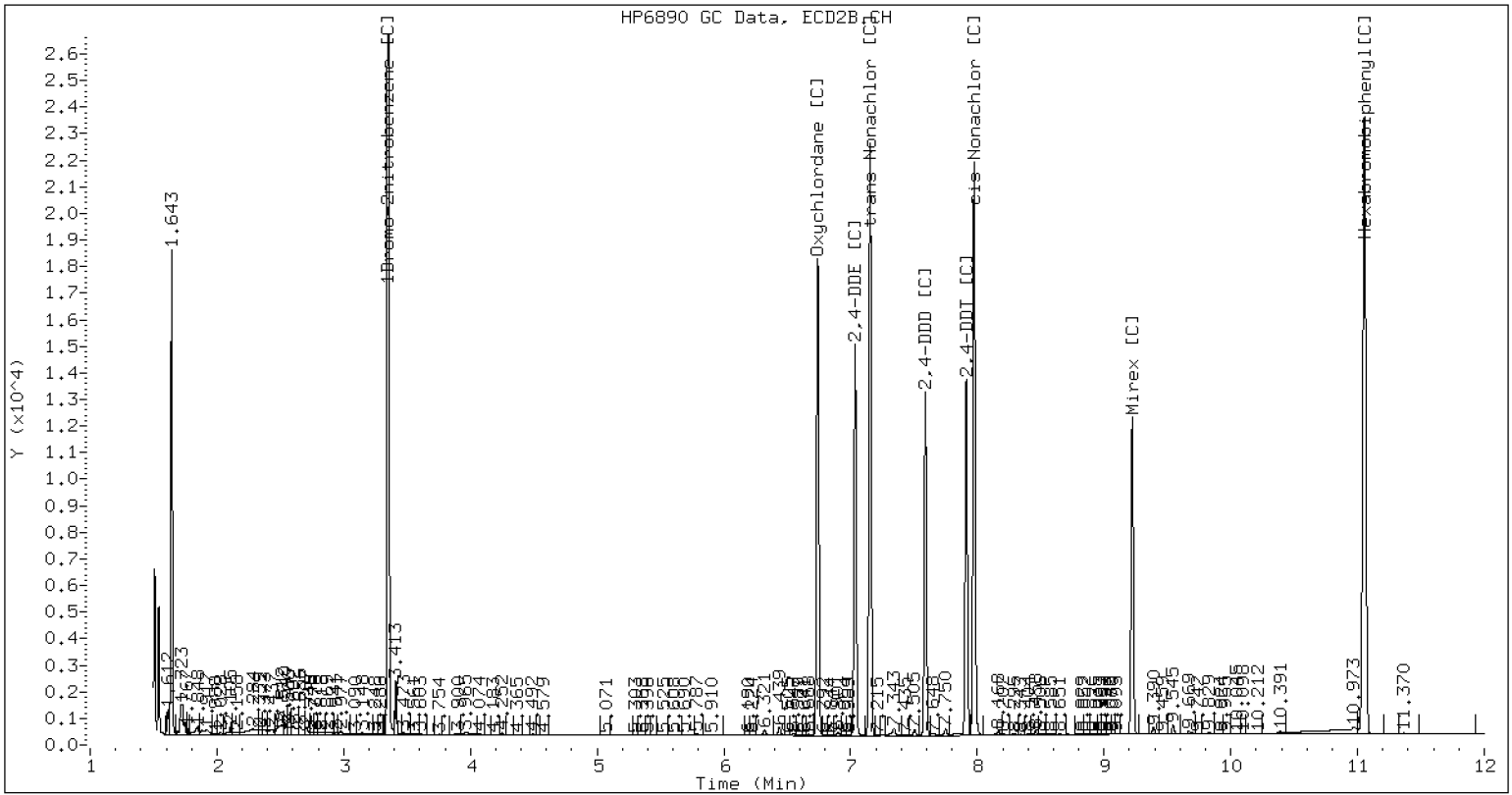


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121416.D SEQ-CALC CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121416.D  
Data file 2: /20221214.b/B20221214.b/22121416.D  
Method: \20221214.b\PEST.m  
Compound Sublist: WND.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CALC  
Client ID:  
Injection Date: 14-DEC-2022 23:54  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col       | STX-CLP | CLP2           | RPD    | Compound/Flag |  |  |
|-------------|----------------|---------|----------------|--------|---------------|--|--|
| RT          | Shift Response | RT      | Shift Response | on col | on col        |  |  |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121417.D  
Data file 2: /20221214.b/B20221214.b/22121417.D  
Method: \20221214.b\PEST.m  
Compound Sublist: WND.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CALD  
Client ID:  
Injection Date: 15-DEC-2022 00:12  
Report Date: 12/16/2022 15:19  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT    | STX-CLP<br>on col | CLP2<br>on col | RPD                  | Compound/Flag |
|-------|-------------------------------|----------------------------|-------|-------------------|----------------|----------------------|---------------|
| 6.014 | -0.000 544254                 | 6.741 -0.000 856443        | 75.85 | 75.73             | 0.2            | Oxychlorthane        |               |
| 6.106 | -0.000 438313                 | 7.036 -0.000 677072        | 73.99 | 73.11             | 1.2            | 2,4-DDE              |               |
| 6.397 | -0.000 704675                 | 7.155 0.000 1067899        | 75.09 | 76.94             | 2.4            | trans-Nonachlor      |               |
| 6.681 | 0.000 393654                  | 7.591 0.000 594311         | 74.70 | 74.86             | 0.2            | 2,4-DDD              |               |
| 6.956 | -0.001 430636                 | 7.914 0.000 618740         | 75.63 | 75.68             | 0.1            | 2,4-DDT              |               |
| 7.112 | -0.000 688257                 | 7.975 0.000 1018624        | 75.31 | 77.19             | 2.5            | cis-Nonachlor        |               |
| 8.082 | -0.001 426177                 | 9.223 0.000 573947         | 74.97 | 74.78             | 0.2            | Mirex                |               |
| 3.800 | -0.028 2109                   | ----                       | 0.23  | 0.00              | ---            | Tetrachloro-m-xylene |               |
| ----  |                               | ----                       | 0.00  | 0.00              | ---            | Decachlorobiphenyl   |               |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 710650         | 664375      | -6.5 |
| Hexabromobiphenyl  | 641833         | 603504      | -6.0 |

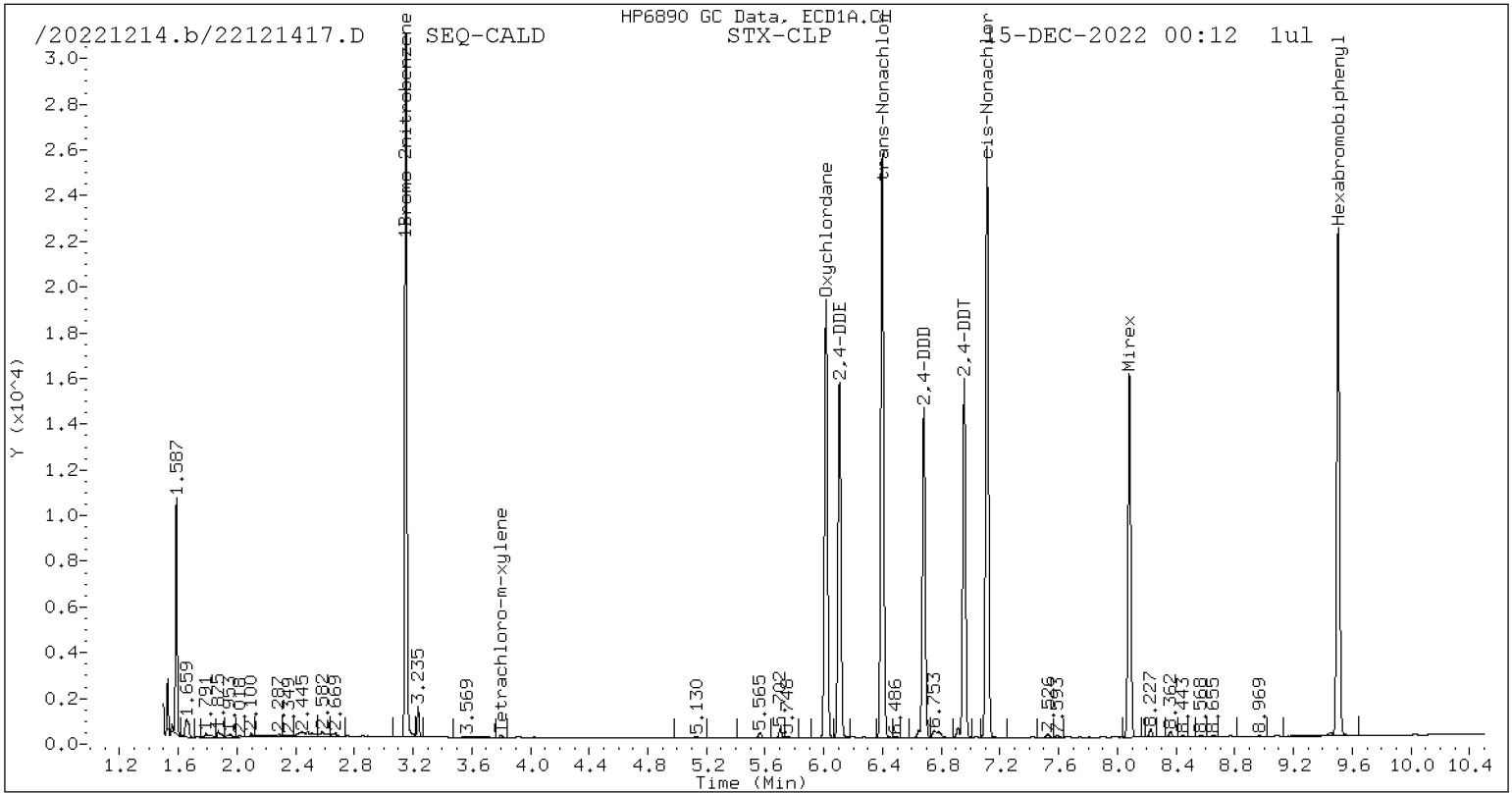
| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1058848        | 1015544     | -4.1 |
| Hexabromobiphenyl  | 797125         | 775630      | -2.7 |

\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

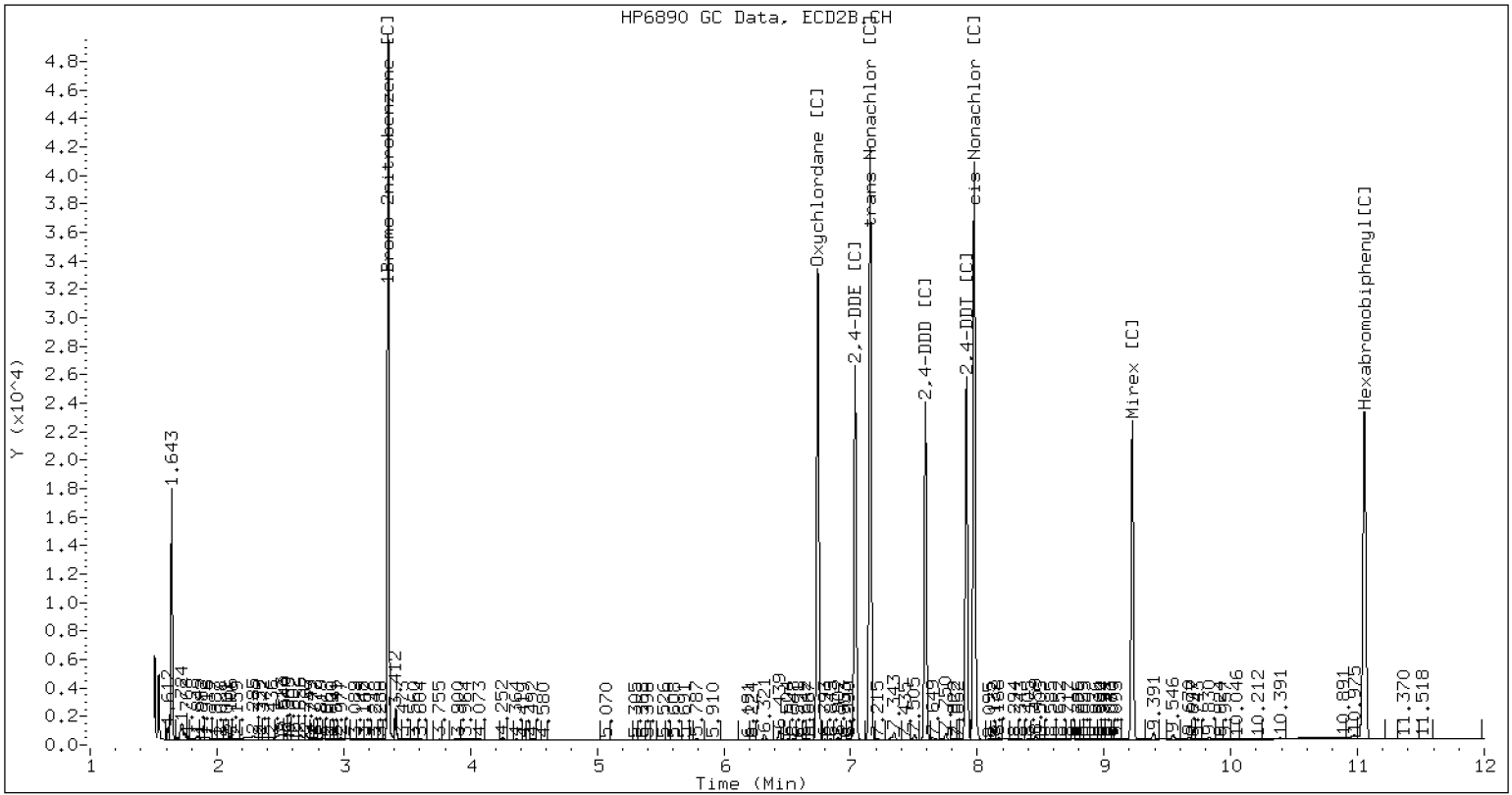
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121417.D SEQ-CALD CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121417.D  
Data file 2: /20221214.b/B20221214.b/22121417.D  
Method: \20221214.b\PEST.m  
Compound Sublist: WND.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CALD  
Client ID:  
Injection Date: 15-DEC-2022 00:12  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col       | STX-CLP | CLP2           | RPD    | Compound/Flag |  |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT          | Shift Response | RT      | Shift Response | on col | on col        |  |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121418.D  
Data file 2: /20221214.b/B20221214.b/22121418.D  
Method: \20221214.b\PEST.m  
Compound Sublist: WND.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CALE  
Client ID:  
Injection Date: 15-DEC-2022 00:30  
Report Date: 12/16/2022 15:19  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT     | CLP2<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD    | Compound/Flag |                      |
|-------|-------------------------------|----------------------------|--------|------------------------|-------------------|----------------|--------|---------------|----------------------|
| 6.014 | 0.000                         | 1020828                    | 6.741  | 0.000                  | 1630330           | 140.48         | 142.04 | 1.1           | Oxychlorane          |
| 6.106 | -0.000                        | 801828                     | 7.036  | 0.000                  | 1240933           | 133.65         | 132.03 | 1.2           | 2,4-DDE              |
| 6.397 | 0.000                         | 1327091                    | 7.155  | 0.000                  | 2047915           | 139.63         | 146.04 | 4.5           | trans-Nonachlor      |
| 6.680 | -0.000                        | 733651                     | 7.591  | 0.000                  | 1118552           | 137.46         | 139.45 | 1.4           | 2,4-DDD              |
| 6.956 | -0.001                        | 794021                     | 7.913  | 0.000                  | 1163676           | 137.69         | 140.88 | 2.3           | 2,4-DDT              |
| 7.112 | -0.000                        | 1301975                    | 7.975  | 0.000                  | 1956215           | 140.68         | 146.73 | 4.2           | cis-Nonachlor        |
| 8.082 | -0.001                        | 815059                     | 9.223  | 0.000                  | 1108848           | 141.57         | 143.01 | 1.0           | Mirex                |
| 3.800 | -0.028                        | 3997                       | ----   |                        |                   | 0.43           | 0.00   | ---           | Tetrachloro-m-xylene |
| ----  |                               |                            | 10.471 | 0.004                  | 3393              | 0.00           | 0.39   | ---           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 710650         | 675789      | -4.9 |
| Hexabromobiphenyl  | 641833         | 611199      | -4.8 |

| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1058848        | 1030648     | -2.7 |
| Hexabromobiphenyl  | 797125         | 783631      | -1.7 |

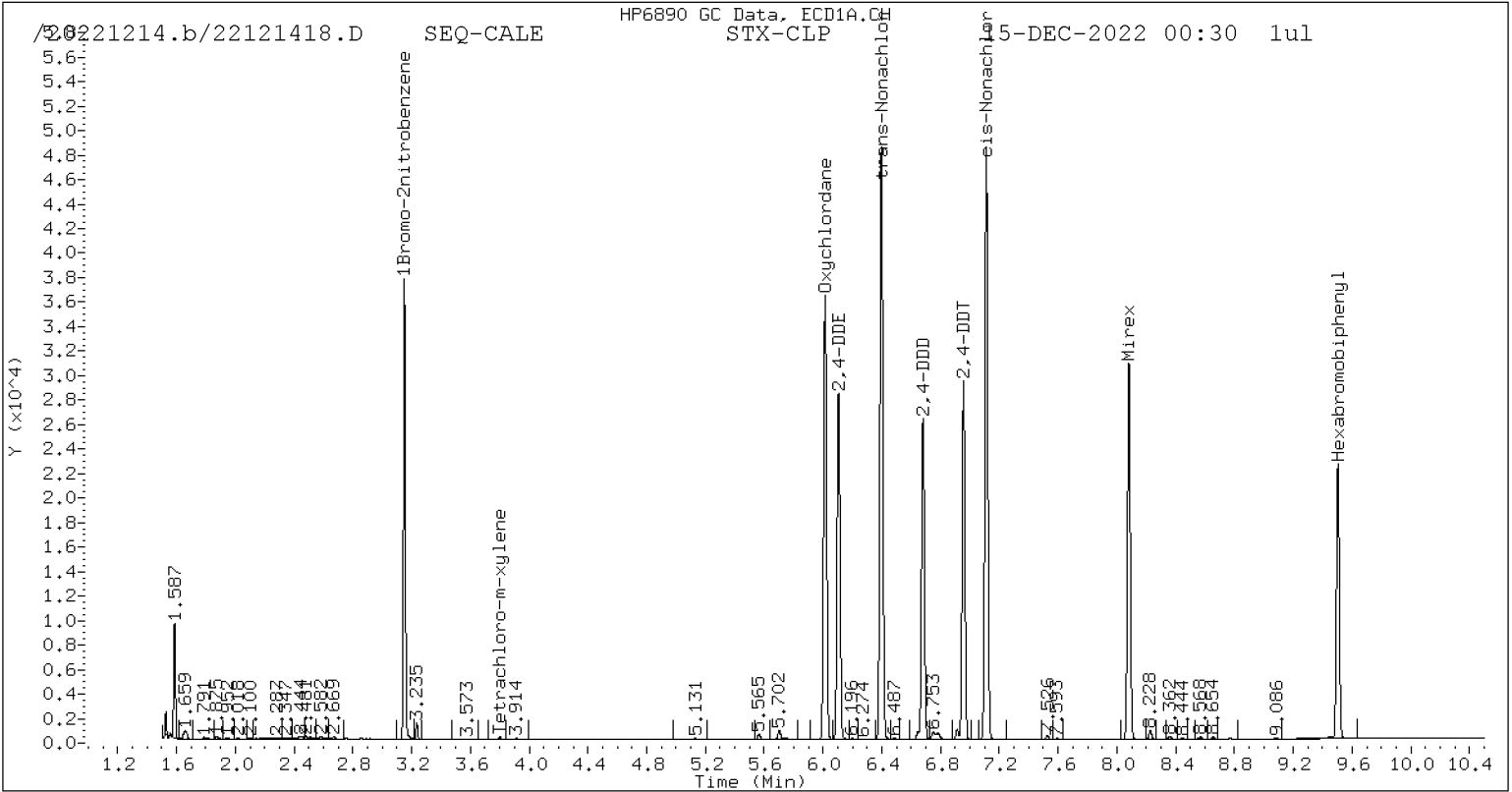
\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

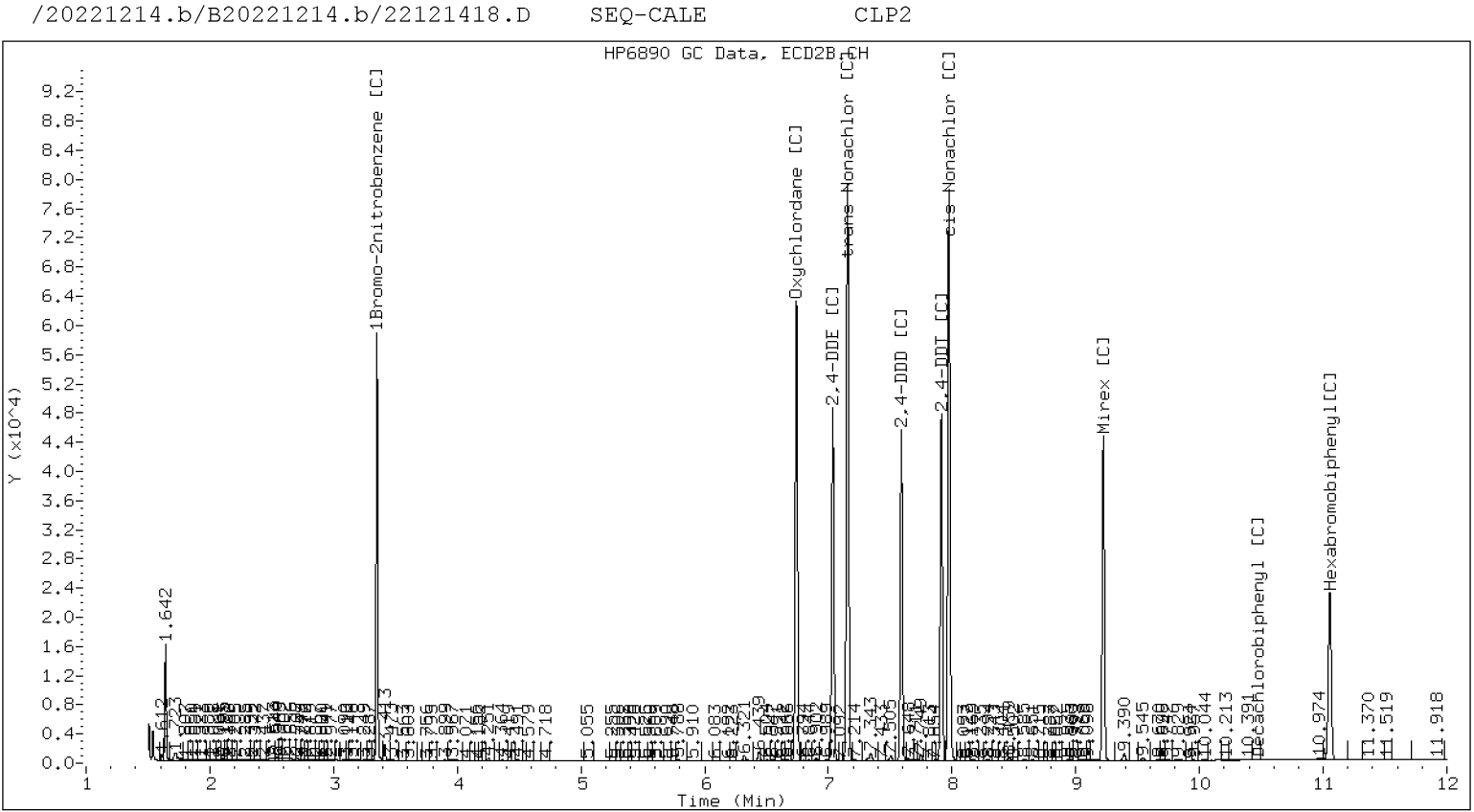
<- Indicates standard response outside Limits (-50 to +100%)



Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121418.D  
Data file 2: /20221214.b/B20221214.b/22121418.D  
Method: \20221214.b\PEST.m  
Compound Sublist: WND.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CALE  
Client ID:  
Injection Date: 15-DEC-2022 00:30  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP  | CLP2 | RPD   | Compound/Flag |        |        |     |               |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT          | Shift    | Response | RT   | Shift | Response      | on col | on col | RPD | Compound/Flag |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121419.D  
Data file 2: /20221214.b/B20221214.b/22121419.D  
Method: \20221214.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-SCV1  
Client ID:  
Injection Date: 15-DEC-2022 00:48  
Report Date: 12/16/2022 15:19  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col |        |          | CLP2 Col |        |          | STX-CLP | CLP2   | RPD | Compound/Flag        |
|-------------|--------|----------|----------|--------|----------|---------|--------|-----|----------------------|
| RT          | Shift  | Response | RT       | Shift  | Response | on col  | on col |     |                      |
| 4.342       | 0.000  | 643235   | 4.860    | -0.000 | 1047709  | 49.66   | 51.22  | 3.1 | alpha-BHC            |
| 4.726       | -0.000 | 242617   | 5.337    | 0.000  | 386388   | 48.66   | 49.69  | 2.1 | beta-BHC             |
| 4.909       | 0.000  | 554797   | 5.692    | 0.001  | 897343   | 52.41   | 53.26  | 1.6 | delta-BHC            |
| 4.646       | 0.001  | 573983   | 5.258    | 0.000  | 915596   | 51.11   | 52.75  | 3.1 | gamma-BHC (Lindane)  |
| 5.130       | 0.000  | 495138   | 5.788    | 0.001  | 804002   | 49.55   | 51.13  | 3.1 | Heptachlor           |
| 5.454       | 0.000  | 526615   | 6.191    | 0.000  | 842909   | 47.03   | 46.95  | 0.2 | Aldrin               |
| 6.130       | 0.000  | 469481   | 6.846    | 0.000  | 724932   | 48.36   | 48.83  | 1.0 | Heptachlor epoxide b |
| 6.573       | 0.000  | 423102   | 7.289    | -0.000 | 632890   | 47.49   | 48.37  | 1.8 | Endosulfan I         |
| 6.832       | 0.000  | 478299   | 7.583    | 0.000  | 724854   | 49.97   | 50.14  | 0.3 | Dieldrin             |
| 6.489       | 0.000  | 448741   | 7.371    | 0.000  | 670346   | 50.49   | 50.56  | 0.1 | 4,4'-DDE             |
| 7.082       | 0.001  | 396143   | 7.907    | 0.000  | 551004   | 50.36   | 50.73  | 0.7 | Endrin               |
| 7.318       | 0.001  | 350431   | 8.118    | 0.001  | 537104   | 49.49   | 48.24  | 2.6 | Endosulfan II        |
| 7.136       | 0.001  | 355688   | 7.977    | 0.001  | 525927   | 50.19   | 49.78  | 0.8 | 4,4'-DDD             |
| 8.180       | 0.000  | 347949   | 8.716    | 0.001  | 502438   | 51.75   | 51.39  | 0.7 | Endosulfan sulfate   |
| 7.428       | 0.001  | 368644   | 8.295    | -0.000 | 524685   | 51.48   | 51.45  | 0.1 | 4,4'-DDT             |
| 7.913       | 0.001  | 174306   | 8.935    | -0.001 | 238791   | 54.93   | 52.91  | 3.7 | Methoxychlor         |
| 8.454       | 0.000  | 394474   | 9.240    | -0.000 | 540431   | 51.21   | 51.18  | 0.1 | Endrin ketone        |
| 7.746       | 0.001  | 316262   | 8.448    | 0.000  | 449269   | 56.00   | 57.20  | 2.1 | Endrin aldehyde      |
| 6.271       | 0.000  | 490842   | 7.056    | 0.000  | 748350   | 49.78   | 50.55  | 1.5 | trans-Chlordane      |
| 6.417       | 0.001  | 469513   | 7.216    | 0.000  | 700871   | 47.47   | 48.39  | 1.9 | cis-Chlordane        |
| ----        |        |          | 2.512    | 0.011  | 11364    | 0.00    | 0.59   | --- | Hexachlorobutadiene  |
| ----        |        |          | 4.719    | 0.001  | 634      | 0.00    | 0.03   | --- | Hexachlorobenzene    |
| ----        |        |          | 4.220    | -0.000 | 1724     | 0.00    | 0.12   | --- | Tetrachloro-m-xylene |
| ----        |        |          | 10.468   | 0.001  | 643      | 0.00    | 0.08   | --- | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 710650         | 672755      | -5.3 |
| Hexabromobiphenyl  | 641833         | 599983      | -6.5 |

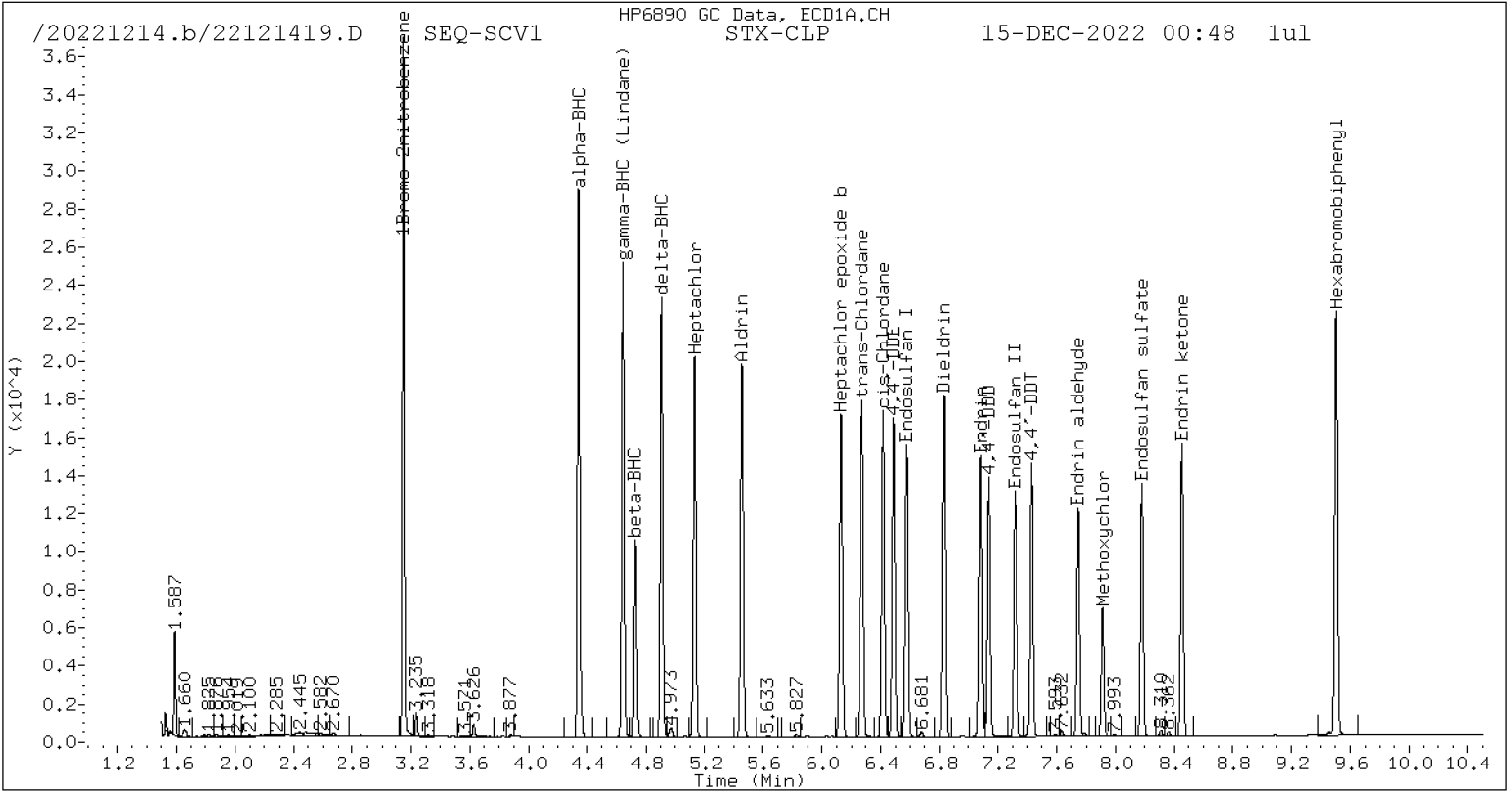
| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1058848        | 1020655     | -3.6 |
| Hexabromobiphenyl  | 797125         | 763949      | -4.2 |

\* Standard Areas taken from Initial Cal Level 5

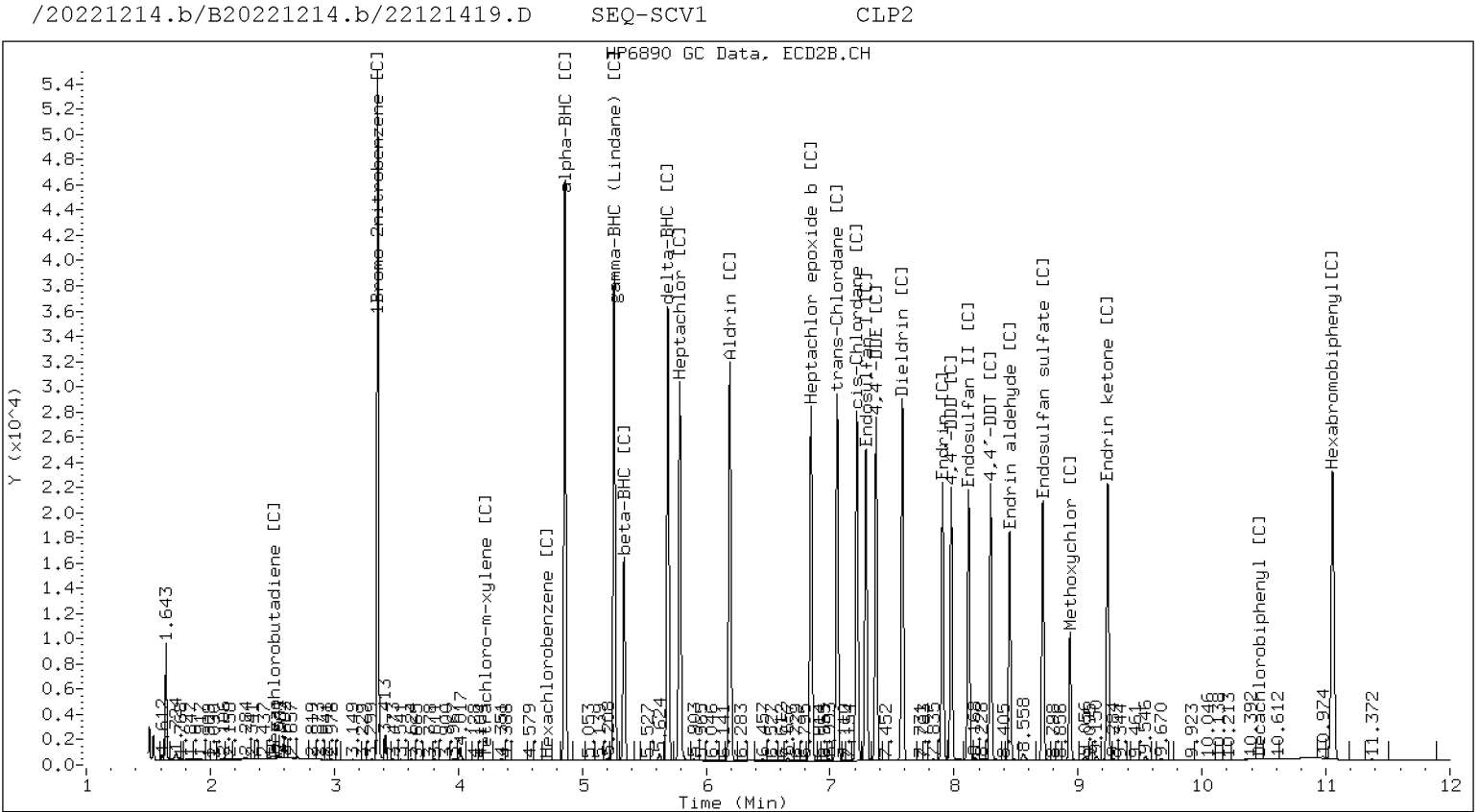
Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121419.D  
Data file 2: /20221214.b/B20221214.b/22121419.D  
Method: \20221214.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-SCV1  
Client ID:  
Injection Date: 15-DEC-2022 00:48  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col       | STX-CLP | CLP2           | RPD    | Compound/Flag |  |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT          | Shift Response | RT      | Shift Response | on col | on col        |  |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121420.D  
Data file 2: /20221214.b/B20221214.b/22121420.D  
Method: \20221214.b\PEST.m  
Compound Sublist: WND.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-SCV2  
Client ID:  
Injection Date: 15-DEC-2022 01:06  
Report Date: 12/16/2022 15:20  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT    | CLP2 Col<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD   | Compound/Flag |                      |
|-------|-------------------------------|----------------------------|-------|----------------------------|-------------------|----------------|-------|---------------|----------------------|
| 6.014 | -0.000                        | 374516                     | 6.741 | 0.000                      | 591348            | 51.08          | 50.07 | 2.0           | Oxychlorthane        |
| 6.106 | -0.000                        | 261097                     | 7.036 | -0.000                     | 403824            | 43.13          | 41.76 | 3.2           | 2,4-DDE              |
| 6.397 | -0.000                        | 444133                     | 7.155 | -0.000                     | 657777            | 46.31          | 45.91 | 0.9           | trans-Nonachlor      |
| 6.681 | 0.000                         | 222534                     | 7.591 | 0.000                      | 334706            | 41.32          | 40.84 | 1.2           | 2,4-DDD              |
| 6.956 | -0.001                        | 262722                     | 7.914 | 0.000                      | 382016            | 45.15          | 45.26 | 0.2           | 2,4-DDT              |
| 7.111 | -0.001                        | 455894                     | 7.975 | 0.000                      | 655718            | 48.82          | 48.13 | 1.4           | cis-Nonachlor        |
| 8.081 | -0.001                        | 256593                     | 9.223 | 0.000                      | 343173            | 44.17          | 43.31 | 2.0           | Mirex                |
| ----  |                               |                            | ----  |                            |                   | 0.00           | 0.00  | ---           | Tetrachloro-m-xylene |
| ----  |                               |                            | ----  |                            |                   | 0.00           | 0.00  | ---           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 710650         | 687052      | -3.3 |
| Hexabromobiphenyl  | 641833         | 616730      | -3.9 |

| Standard Cpnd      | Column 2       |             | %D  |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area |     |
| Bromo-Nitrobenzene | 1058848        | 1060438     | 0.2 |
| Hexabromobiphenyl  | 797125         | 800740      | 0.5 |

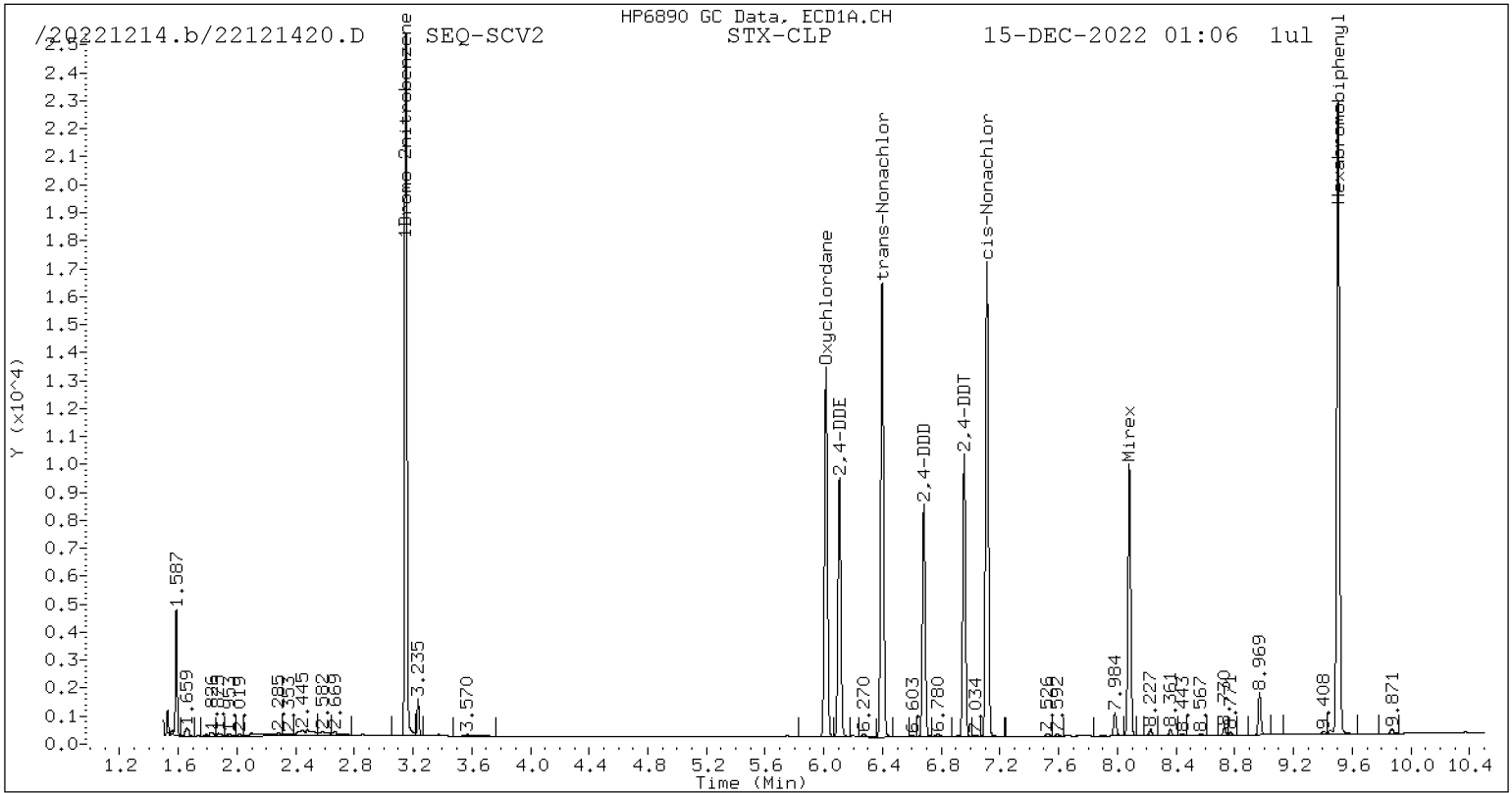
\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

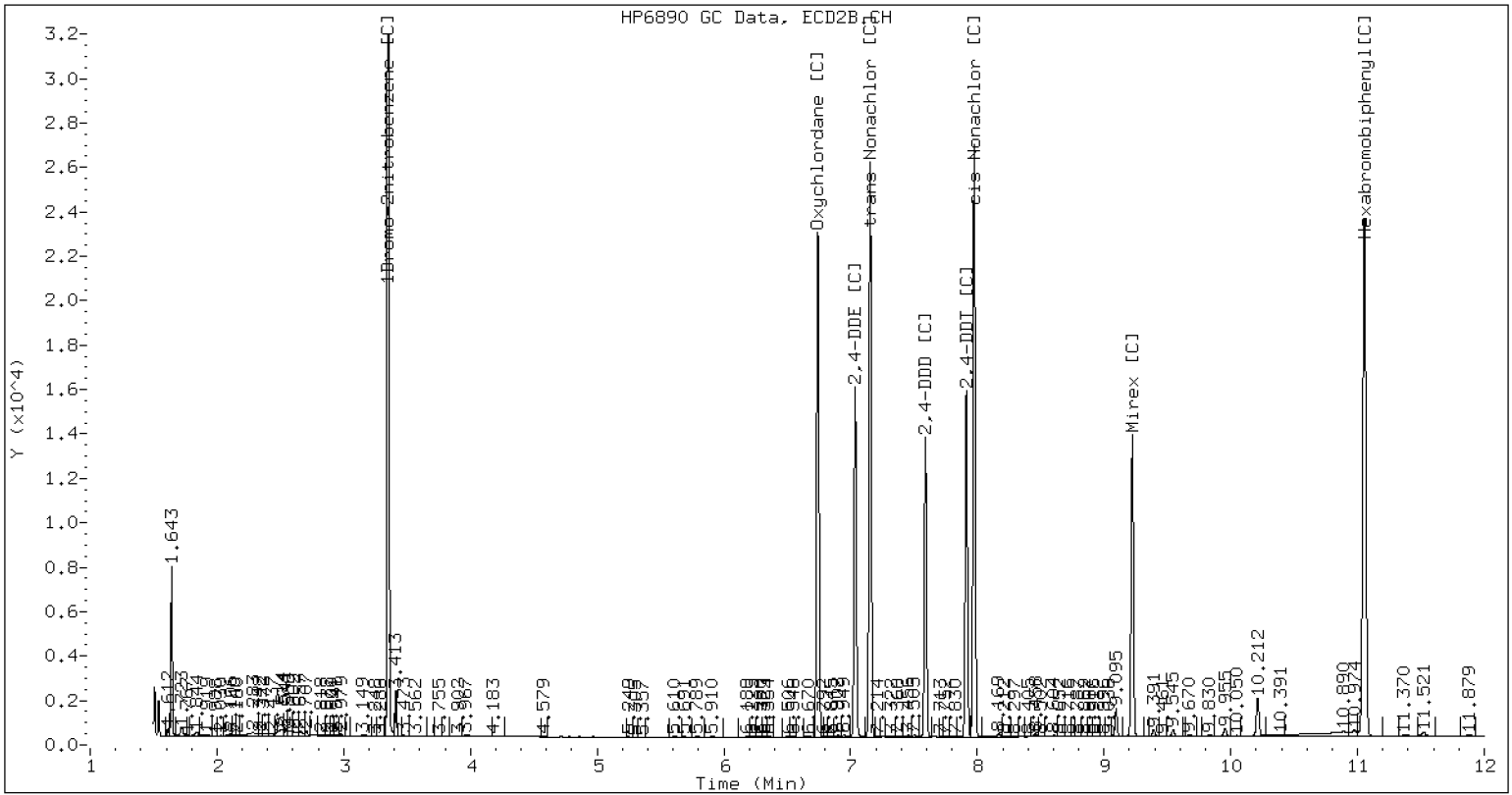


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121420.D SEQ-SCV2 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121420.D  
Data file 2: /20221214.b/B20221214.b/22121420.D  
Method: \20221214.b\PEST.m  
Compound Sublist: WND.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-SCV2  
Client ID:  
Injection Date: 15-DEC-2022 01:06  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP  | CLP2 | RPD   | Compound/Flag |        |        |     |               |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT          | Shift    | Response | RT   | Shift | Response      | on col | on col | RPD | Compound/Flag |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121421.D  
 Data file 2: /20221214.b/B20221214.b/22121421.D  
 Method: \20221214.b\PEST.m  
 Compound Sublist: TECHCHLOR.sub  
 Instrument, Inj. Vol.: ecd6.i, 1ul  
 Operator: JGR

ARI ID: SEQ-CAL1A  
 Client ID:  
 Injection Date: 15-DEC-2022 01:24  
 Report Date: 12/16/2022 15:20  
 Units: ng/mL  
 Dilution Factor: 1.000

| RT   | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | 361 | STX-CLP<br>on col | CLP2<br>on col | RPD | Compound/Flag        |
|------|-------------------------------|----------------------------|-----|-------------------|----------------|-----|----------------------|
| ---- | 4.215                         | -0.006                     | 361 | 0.00              | 0.02           | --- | Tetrachloro-m-xylene |
| ---- | ----                          |                            |     | 0.00              | 0.00           | --- | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

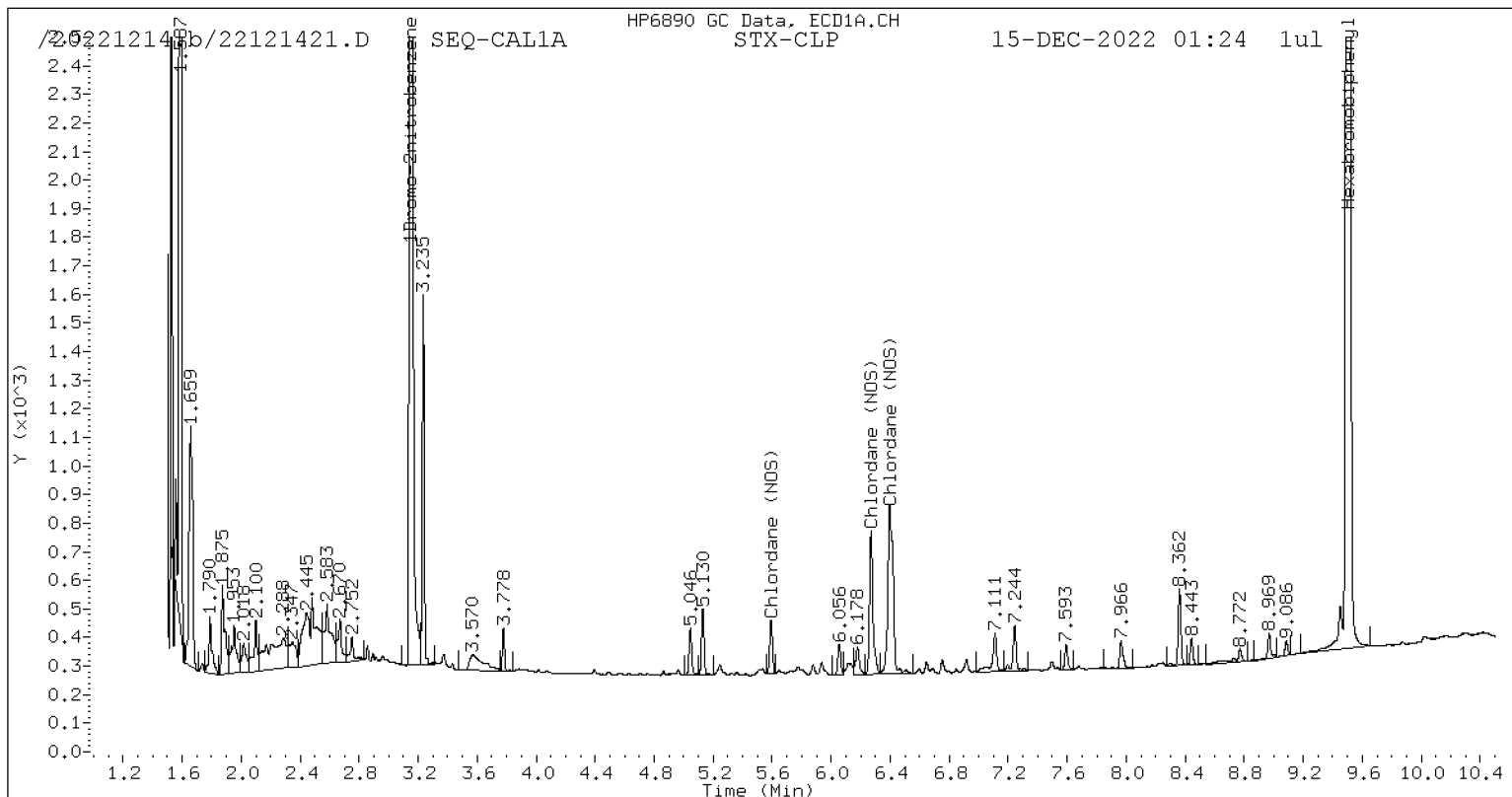
| Column 1           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 710650         | 601512      | -15.4 |
| Hexabromobiphenyl  | 641833         | 690103      | 7.5   |

| Column 2           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 1058848        | 776759      | -26.6 |
| Hexabromobiphenyl  | 797125         | 1058847     | 32.8  |

\* Standard Areas taken from Initial Cal Level 5  
 Initial Calibration Date: 14-DEC-2022  
 <- Indicates standard response outside Limits (-50 to +100%)

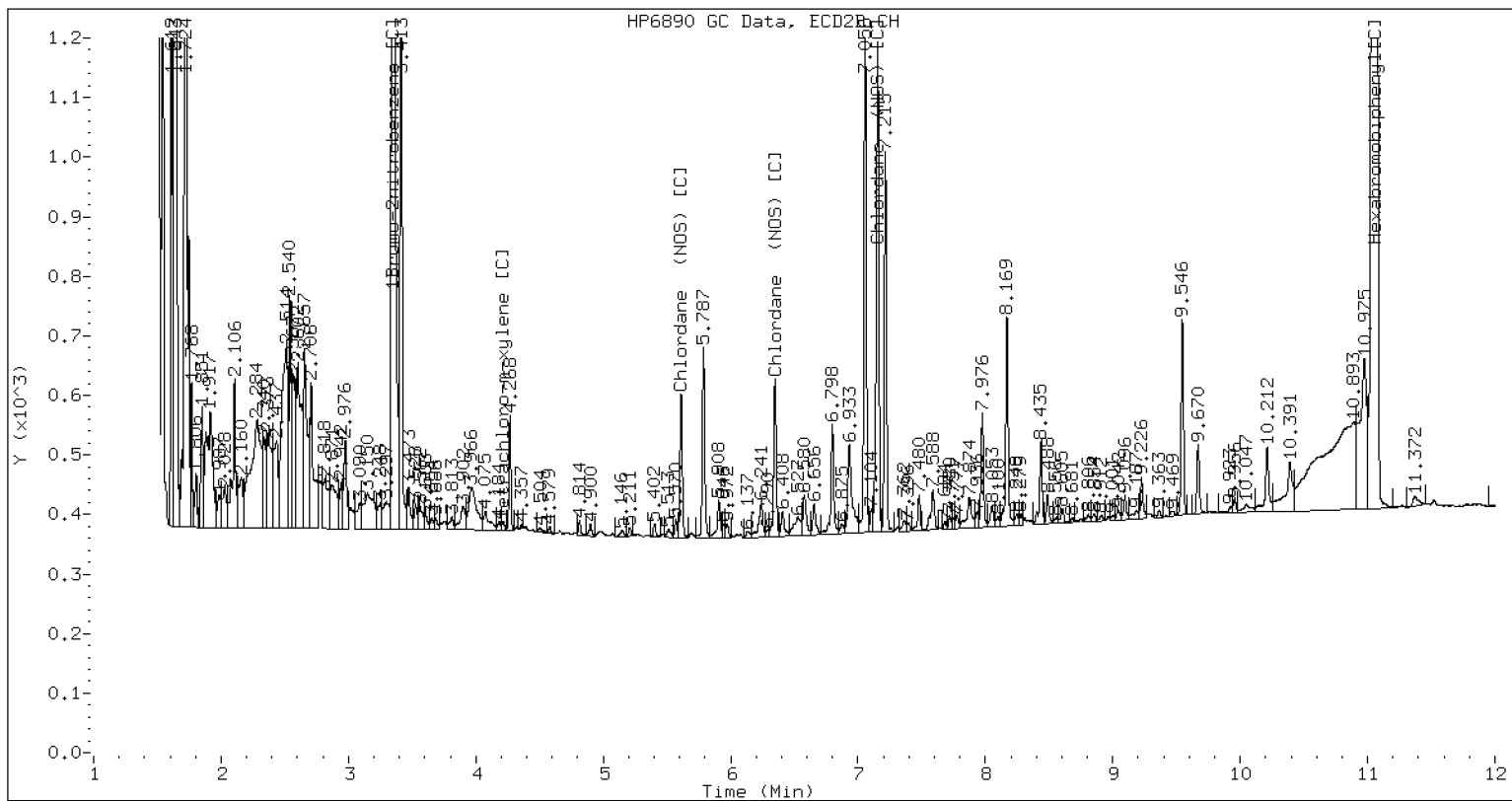
| Cpnd                               | Peak# | RT    | STX-CLP Col |        |                                 | Peak# | RT    | CLP2 Col |        |         |
|------------------------------------|-------|-------|-------------|--------|---------------------------------|-------|-------|----------|--------|---------|
|                                    |       |       | Shift       | Height | Amount                          |       |       | Shift    | Height | Amount  |
| Chlordane (NOS)                    | 1     | 5.593 | 0.000       | 5054   | 13.1                            | 1     | 5.612 | -0.000   | 6415   | 12.8    |
| Chlordane (NOS)                    | 2     | 6.271 | -0.000      | 15913  | 12.4                            | 2     | 6.349 | -0.000   | 7689   | 13.7    |
| Chlordane (NOS)                    | 3     | 6.399 | 0.000       | 29332  | 13.1                            | 3     | 7.155 | -0.001   | 23386  | 12.3    |
| Total STX-CLPAve (3 peaks): 12.882 |       |       |             |        | Total CLP2Ave (3 peaks): 12.916 |       |       |          |        | RPD = 0 |
| Corrected Ave (3 peaks): 12.882    |       |       |             |        | Corrected Ave (3 peaks): 12.916 |       |       |          |        | RPD = 0 |

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121421.D SEQ-CAL1A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121421.D  
Data file 2: /20221214.b/B20221214.b/22121421.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TECHCHLOR.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL1A  
Client ID:  
Injection Date: 15-DEC-2022 01:24  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col       | STX-CLP | CLP2           | RPD    | Compound/Flag |  |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT          | Shift Response | RT      | Shift Response | on col | on col        |  |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121422.D  
Data file 2: /20221214.b/B20221214.b/22121422.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TECHCHLOR.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL2A  
Client ID:  
Injection Date: 15-DEC-2022 01:42  
Report Date: 12/16/2022 15:20  
Units: ng/mL  
Dilution Factor: 1.000

| RT   | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD  | Compound/Flag |                      |
|------|-------------------------------|----------------------------|-------------------|----------------|------|---------------|----------------------|
| ---- |                               | ----                       |                   | 0.00           | 0.00 | ---           | Tetrachloro-m-xylene |
| ---- |                               | ----                       |                   | 0.00           | 0.00 | ---           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D    |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area |       |
| Bromo-Nitrobenzene | 710650         | 611280      | -14.0 |
| Hexabromobiphenyl  | 641833         | 704720      | 9.8   |

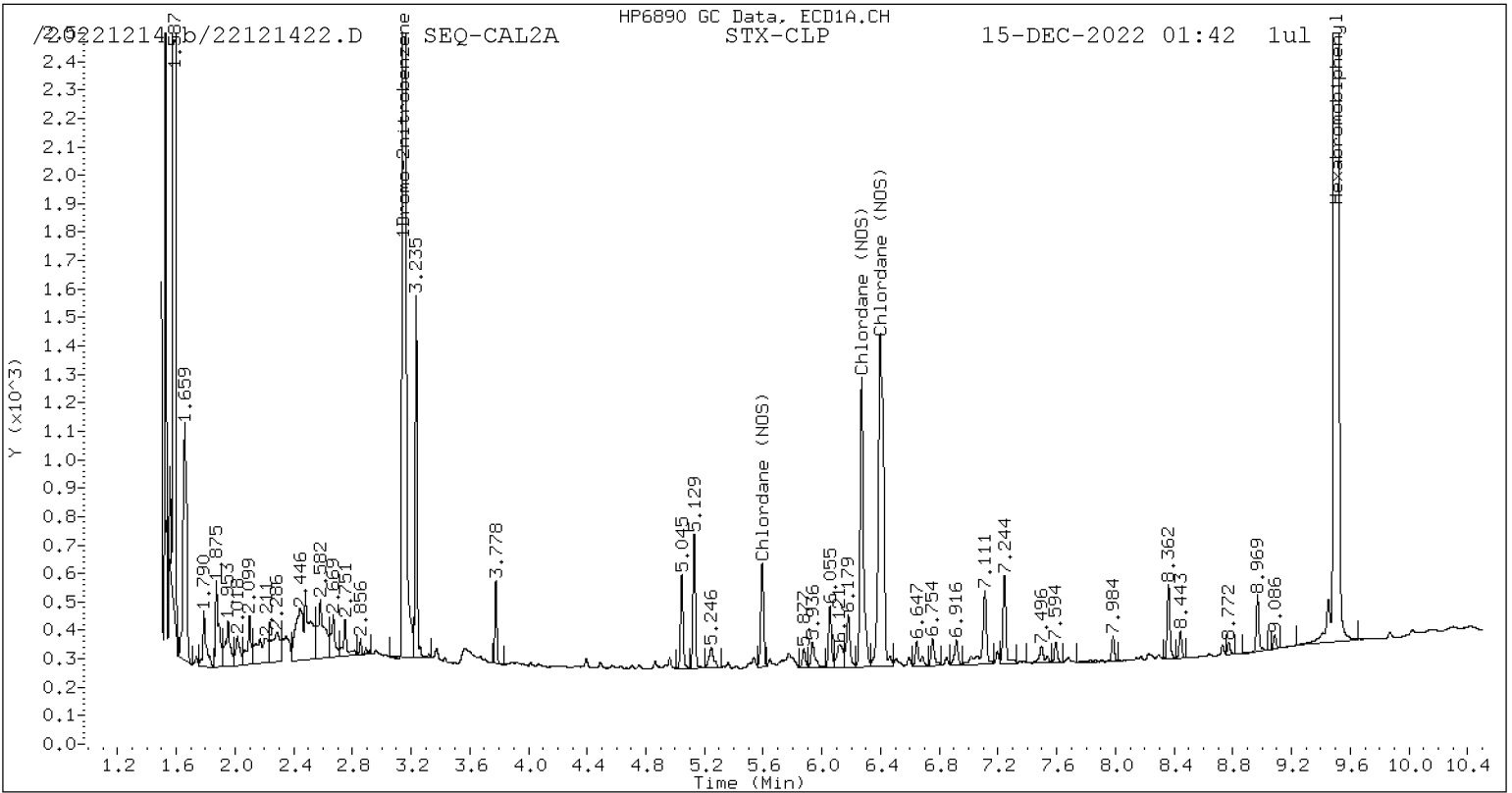
| Standard Cpnd      | Column 2       |             | %D    |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area |       |
| Bromo-Nitrobenzene | 1058848        | 793365      | -25.1 |
| Hexabromobiphenyl  | 797125         | 1083049     | 35.9  |

\* Standard Areas taken from Initial Cal Level 5  
 Initial Calibration Date: 14-DEC-2022  
 <- Indicates standard response outside Limits (-50 to +100%)

| Cpnd                               | Peak# | RT    | STX-CLP Col |        |                                 | Peak# | RT    | CLP2 Col |        |         |
|------------------------------------|-------|-------|-------------|--------|---------------------------------|-------|-------|----------|--------|---------|
|                                    |       |       | Shift       | Height | Amount                          |       |       | Shift    | Height | Amount  |
| Chlordane (NOS)                    | 1     | 5.593 | 0.000       | 10046  | 25.5                            | 1     | 5.612 | -0.000   | 12488  | 24.4    |
| Chlordane (NOS)                    | 2     | 6.271 | -0.000      | 32715  | 25.0                            | 2     | 6.348 | -0.001   | 15023  | 26.1    |
| Chlordane (NOS)                    | 3     | 6.399 | 0.000       | 58016  | 25.4                            | 3     | 7.155 | -0.000   | 48236  | 24.8    |
| Total STX-CLPAve (3 peaks): 25.309 |       |       |             |        | Total CLP2Ave (3 peaks): 25.077 |       |       |          |        | RPD = 1 |
| Corrected Ave (3 peaks): 25.309    |       |       |             |        | Corrected Ave (3 peaks): 25.077 |       |       |          |        | RPD = 1 |

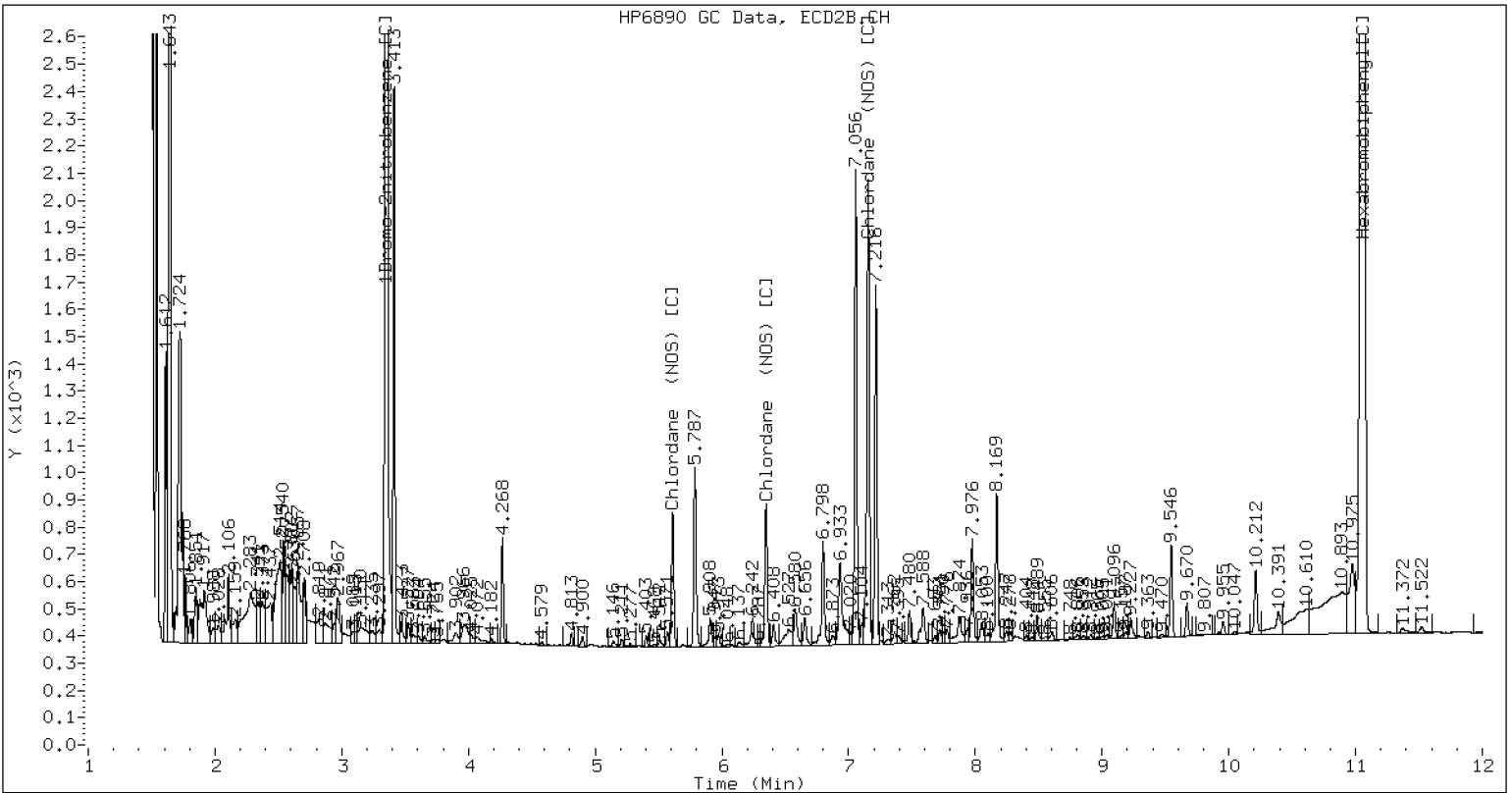


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121422.D SEQ-CAL2A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121422.D  
Data file 2: /20221214.b/B20221214.b/22121422.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TECHCHLOR.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL2A  
Client ID:  
Injection Date: 15-DEC-2022 01:42  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| RT | STX-CLP Col<br>Shift Response |  | RT | CLP2 Col<br>Shift Response |  | STX-CLP<br>on col | CLP2<br>on col | RPD | Compound/Flag |
|----|-------------------------------|--|----|----------------------------|--|-------------------|----------------|-----|---------------|
|----|-------------------------------|--|----|----------------------------|--|-------------------|----------------|-----|---------------|

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121423.D  
Data file 2: /20221214.b/B20221214.b/22121423.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TECHCHLOR.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL3A  
Client ID:  
Injection Date: 15-DEC-2022 01:59  
Report Date: 12/16/2022 15:20  
Units: ng/mL  
Dilution Factor: 1.000

| RT   | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD  | Compound/Flag |                      |
|------|-------------------------------|----------------------------|-------------------|----------------|------|---------------|----------------------|
| ---- |                               | ----                       |                   | 0.00           | 0.00 | ---           | Tetrachloro-m-xylene |
| ---- |                               | ----                       |                   | 0.00           | 0.00 | ---           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

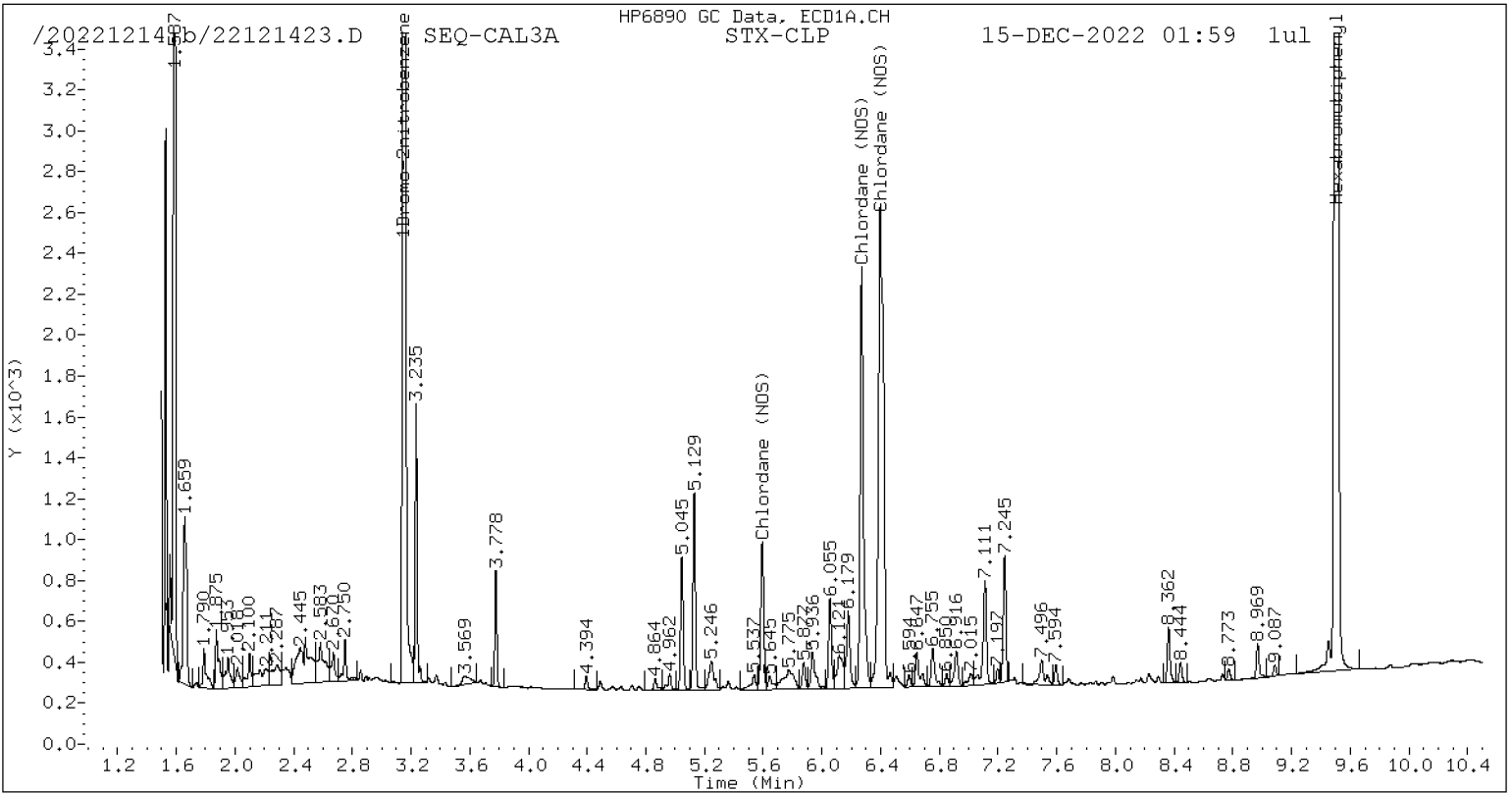
| Standard Cpnd      | Column 1       |             | %D    |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area |       |
| Bromo-Nitrobenzene | 710650         | 592438      | -16.6 |
| Hexabromobiphenyl  | 641833         | 685225      | 6.8   |

| Standard Cpnd      | Column 2       |             | %D    |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area |       |
| Bromo-Nitrobenzene | 1058848        | 769029      | -27.4 |
| Hexabromobiphenyl  | 797125         | 1054742     | 32.3  |

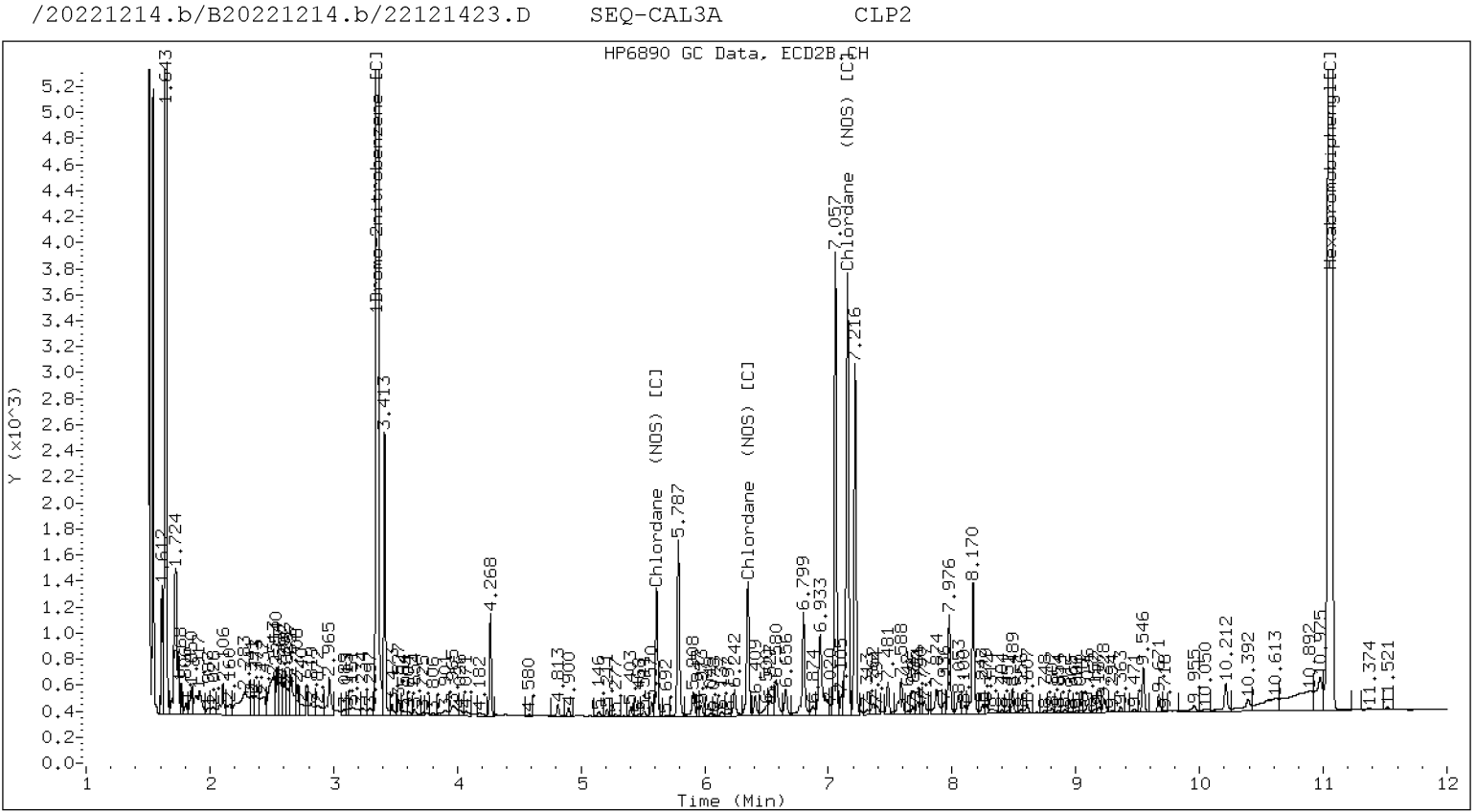
\* Standard Areas taken from Initial Cal Level 5  
 Initial Calibration Date: 14-DEC-2022  
 <- Indicates standard response outside Limits (-50 to +100%)

| Cpnd                               | Peak# | RT    | STX-CLP Col |        |                                 | Peak# | RT    | CLP2 Col |        |         |
|------------------------------------|-------|-------|-------------|--------|---------------------------------|-------|-------|----------|--------|---------|
|                                    |       |       | Shift       | Height | Amount                          |       |       | Shift    | Height | Amount  |
| Chlordane (NOS)                    | 1     | 5.593 | 0.001       | 20502  | 53.5                            | 1     | 5.612 | -0.000   | 24816  | 49.7    |
| Chlordane (NOS)                    | 2     | 6.271 | -0.000      | 66320  | 52.2                            | 2     | 6.349 | 0.000    | 29114  | 51.9    |
| Chlordane (NOS)                    | 3     | 6.399 | 0.000       | 116820 | 52.6                            | 3     | 7.155 | -0.000   | 98401  | 51.9    |
| Total STX-CLPAve (3 peaks): 52.767 |       |       |             |        | Total CLP2Ave (3 peaks): 51.179 |       |       |          |        | RPD = 3 |
| Corrected Ave (3 peaks): 52.767    |       |       |             |        | Corrected Ave (3 peaks): 51.179 |       |       |          |        | RPD = 3 |

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121423.D  
Data file 2: /20221214.b/B20221214.b/22121423.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TECHCHLOR.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL3A  
Client ID:  
Injection Date: 15-DEC-2022 01:59  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col       | STX-CLP | CLP2           | RPD    | Compound/Flag |  |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT          | Shift Response | RT      | Shift Response | on col | on col        |  |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121424.D  
Data file 2: /20221214.b/B20221214.b/22121424.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TECHCHLOR.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL4A  
Client ID:  
Injection Date: 15-DEC-2022 02:17  
Report Date: 12/16/2022 15:20  
Units: ng/mL  
Dilution Factor: 1.000

| RT   | STX-CLP Col<br>Shift Response | RT   | CLP2 Col<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD | Compound/Flag        |
|------|-------------------------------|------|----------------------------|-------------------|----------------|-----|----------------------|
| ---- |                               | ---- |                            | 0.00              | 0.00           | --- | Tetrachloro-m-xylene |
| ---- |                               | ---- |                            | 0.00              | 0.00           | --- | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D    |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area |       |
| Bromo-Nitrobenzene | 710650         | 584808      | -17.7 |
| Hexabromobiphenyl  | 641833         | 675665      | 5.3   |

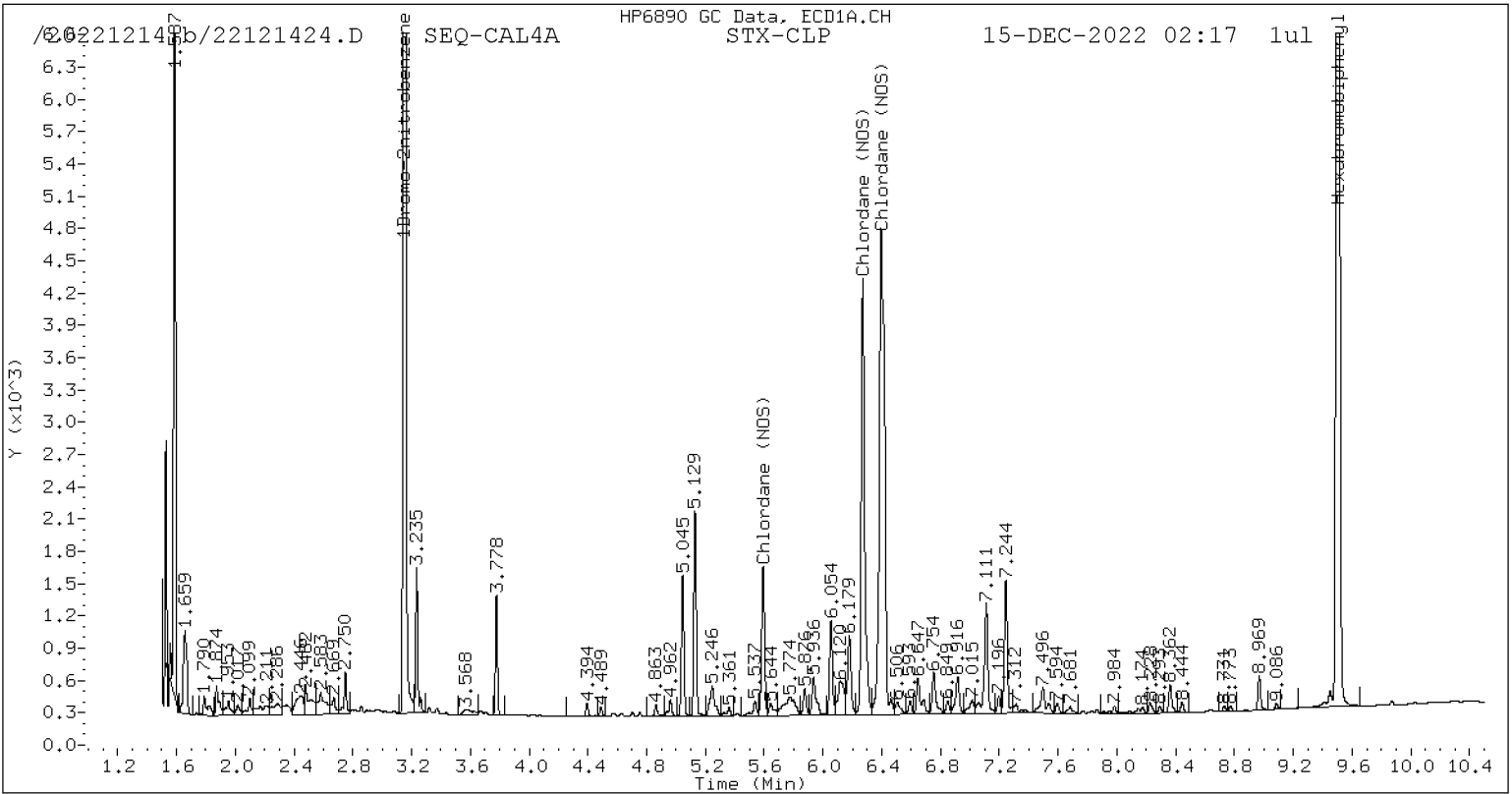
| Standard Cpnd      | Column 2       |             | %D    |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area |       |
| Bromo-Nitrobenzene | 1058848        | 758204      | -28.4 |
| Hexabromobiphenyl  | 797125         | 1039488     | 30.4  |

\* Standard Areas taken from Initial Cal Level 5  
 Initial Calibration Date: 14-DEC-2022  
 <- Indicates standard response outside Limits (-50 to +100%)

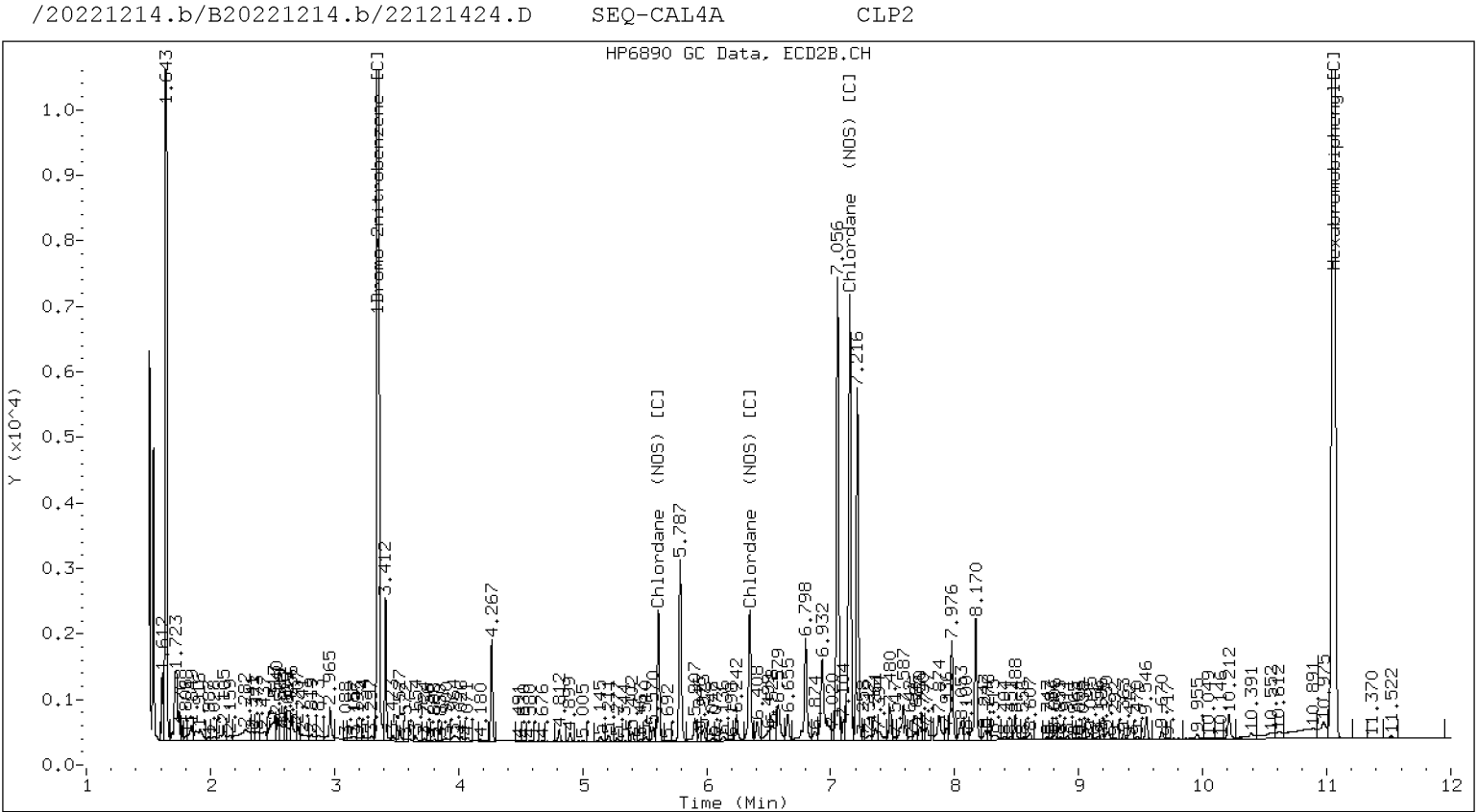
| Cpnd                                | Peak# | RT    | STX-CLP Col |        |                                  | Peak# | RT    | CLP2 Col |        |         |
|-------------------------------------|-------|-------|-------------|--------|----------------------------------|-------|-------|----------|--------|---------|
|                                     |       |       | Shift       | Height | Amount                           |       |       | Shift    | Height | Amount  |
| Chlordane (NOS)                     | 1     | 5.593 | -0.000      | 39696  | 105.0                            | 1     | 5.611 | -0.001   | 49889  | 101.4   |
| Chlordane (NOS)                     | 2     | 6.271 | -0.000      | 131726 | 105.2                            | 2     | 6.348 | -0.001   | 56608  | 102.5   |
| Chlordane (NOS)                     | 3     | 6.398 | -0.001      | 229050 | 104.6                            | 3     | 7.155 | -0.000   | 195665 | 104.7   |
| Total STX-CLPAve (3 peaks): 104.931 |       |       |             |        | Total CLP2Ave (3 peaks): 102.854 |       |       |          |        | RPD = 2 |
| Corrected Ave (3 peaks): 104.931    |       |       |             |        | Corrected Ave (3 peaks): 102.854 |       |       |          |        | RPD = 2 |



Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121424.D  
Data file 2: /20221214.b/B20221214.b/22121424.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TECHCHLOR.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL4A  
Client ID:  
Injection Date: 15-DEC-2022 02:17  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col       | STX-CLP | CLP2           | RPD    | Compound/Flag |  |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT          | Shift Response | RT      | Shift Response | on col | on col        |  |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121425.D  
Data file 2: /20221214.b/B20221214.b/22121425.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TECHCHLOR.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL5A  
Client ID:  
Injection Date: 15-DEC-2022 02:35  
Report Date: 12/16/2022 15:20  
Units: ng/mL  
Dilution Factor: 1.000

| RT   | STX-CLP Col<br>Shift Response | RT   | CLP2 Col<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD | Compound/Flag        |
|------|-------------------------------|------|----------------------------|-------------------|----------------|-----|----------------------|
| ---- |                               | ---- |                            | 0.00              | 0.00           | --- | Tetrachloro-m-xylene |
| ---- |                               | ---- |                            | 0.00              | 0.00           | --- | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

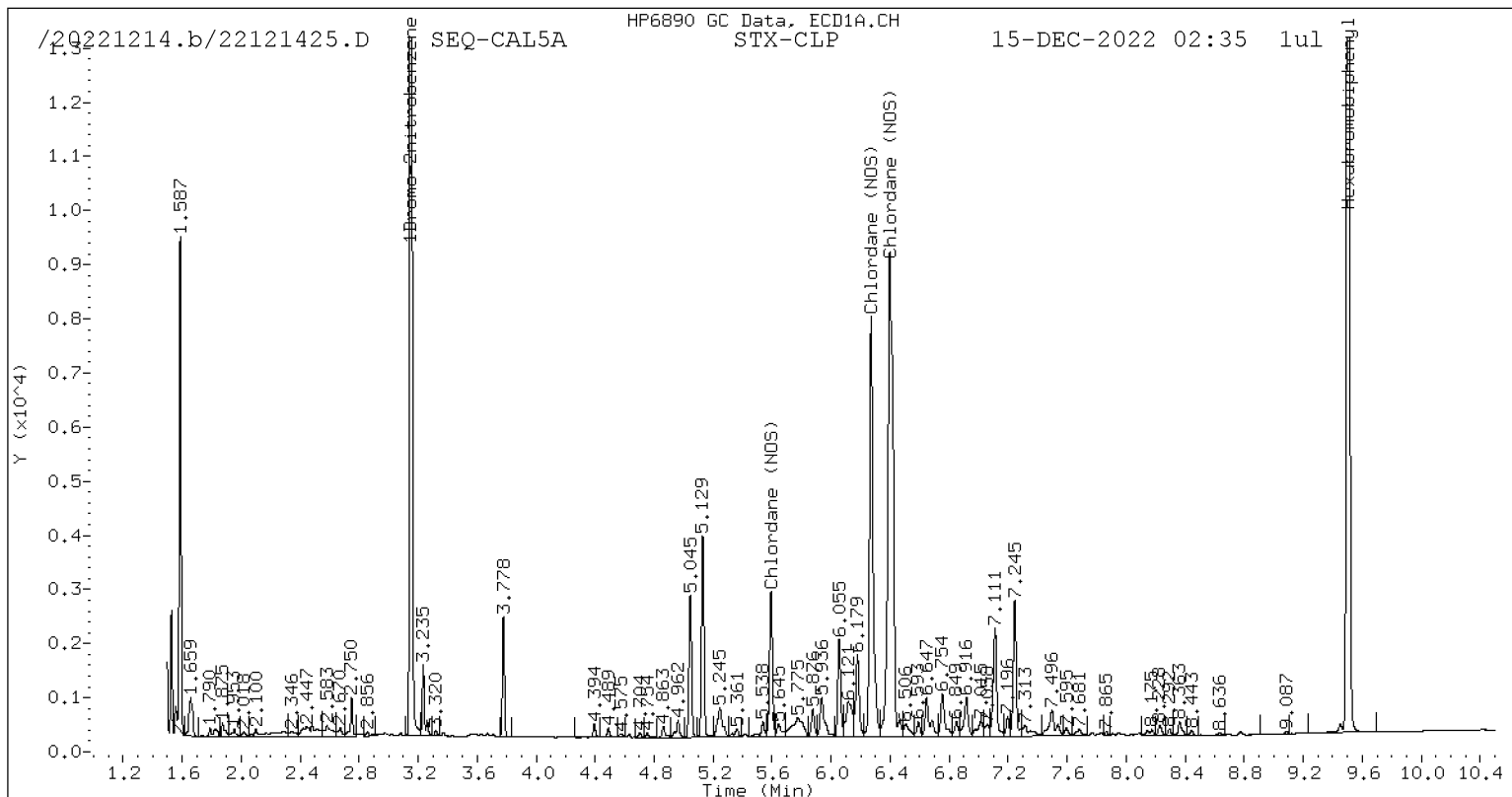
| Standard Cpnd      | Column 1       |             | %D    |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area |       |
| Bromo-Nitrobenzene | 710650         | 612592      | -13.8 |
| Hexabromobiphenyl  | 641833         | 705251      | 9.9   |

| Standard Cpnd      | Column 2       |             | %D    |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area |       |
| Bromo-Nitrobenzene | 1058848        | 792856      | -25.1 |
| Hexabromobiphenyl  | 797125         | 1079718     | 35.5  |

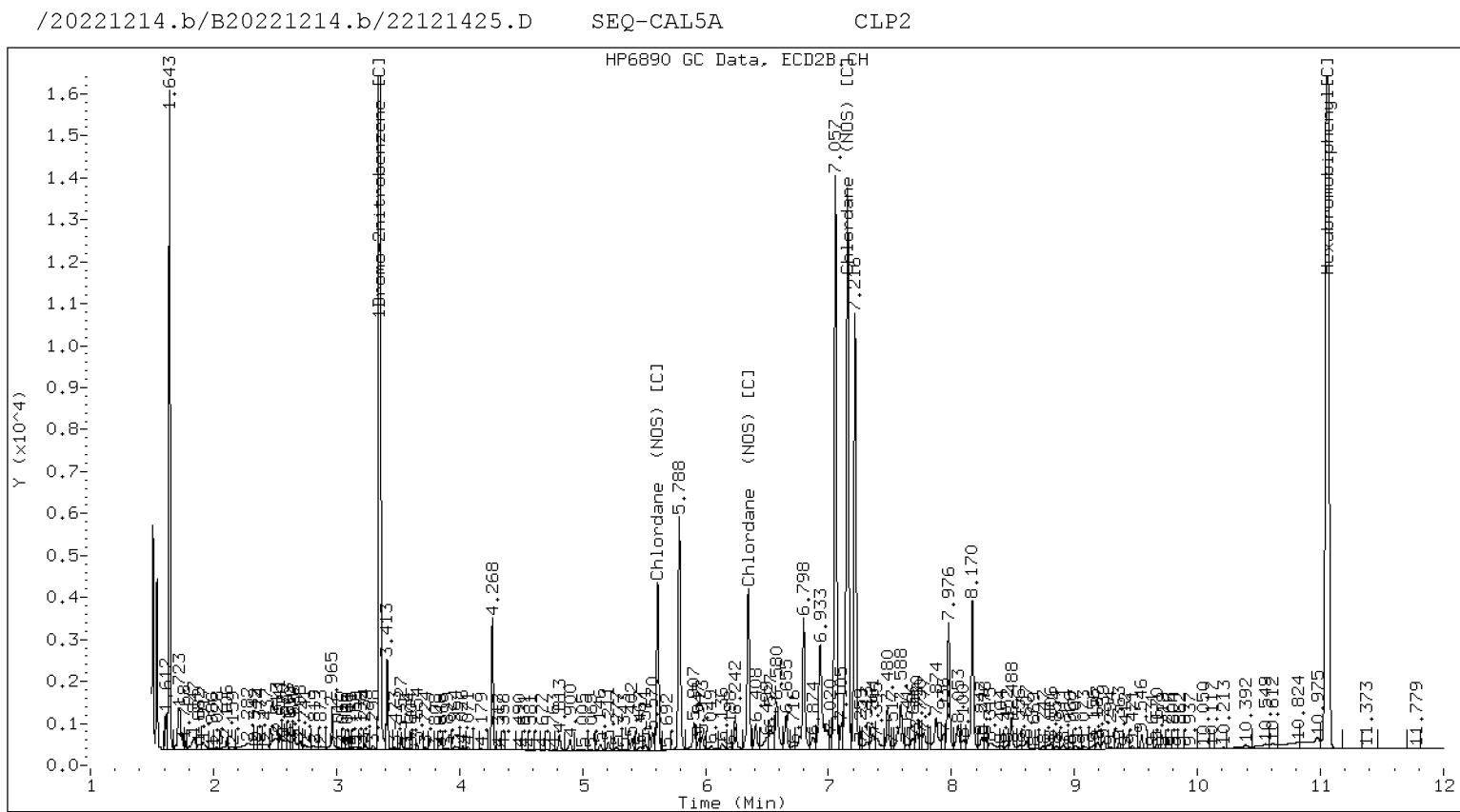
\* Standard Areas taken from Initial Cal Level 5  
 Initial Calibration Date: 14-DEC-2022  
 <- Indicates standard response outside Limits (-50 to +100%)

| Cpnd                                | Peak# | RT    | STX-CLP Col |        |                                  | Peak# | RT    | CLP2 Col |        |         |
|-------------------------------------|-------|-------|-------------|--------|----------------------------------|-------|-------|----------|--------|---------|
|                                     |       |       | Shift       | Height | Amount                           |       |       | Shift    | Height | Amount  |
| Chlordane (NOS)                     | 1     | 5.593 | 0.000       | 77307  | 196.0                            | 1     | 5.612 | -0.000   | 101527 | 198.7   |
| Chlordane (NOS)                     | 2     | 6.271 | 0.000       | 261078 | 199.7                            | 2     | 6.349 | -0.001   | 110757 | 193.0   |
| Chlordane (NOS)                     | 3     | 6.399 | 0.000       | 449301 | 196.5                            | 3     | 7.155 | -0.000   | 389197 | 200.5   |
| Total STX-CLPAve (3 peaks): 197.408 |       |       |             |        | Total CLP2Ave (3 peaks): 197.390 |       |       |          |        | RPD = 0 |
| Corrected Ave (3 peaks): 197.408    |       |       |             |        | Corrected Ave (3 peaks): 197.390 |       |       |          |        | RPD = 0 |

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121425.D  
Data file 2: /20221214.b/B20221214.b/22121425.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TECHCHLOR.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL5A  
Client ID:  
Injection Date: 15-DEC-2022 02:35  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col |                | CLP2 Col |                | STX-CLP | CLP2   |     |               |
|-------------|----------------|----------|----------------|---------|--------|-----|---------------|
| RT          | Shift Response | RT       | Shift Response | on col  | on col | RPD | Compound/Flag |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121426.D  
Data file 2: /20221214.b/B20221214.b/22121426.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TECHCHLOR.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL6A  
Client ID:  
Injection Date: 15-DEC-2022 02:53  
Report Date: 12/16/2022 15:20  
Units: ng/mL  
Dilution Factor: 1.000

| RT   | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD  | Compound/Flag |                      |
|------|-------------------------------|----------------------------|-------------------|----------------|------|---------------|----------------------|
| ---- |                               | ----                       |                   | 0.00           | 0.00 | ---           | Tetrachloro-m-xylene |
| ---- |                               | ----                       |                   | 0.00           | 0.00 | ---           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D    |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area |       |
| Bromo-Nitrobenzene | 710650         | 603526      | -15.1 |
| Hexabromobiphenyl  | 641833         | 699031      | 8.9   |

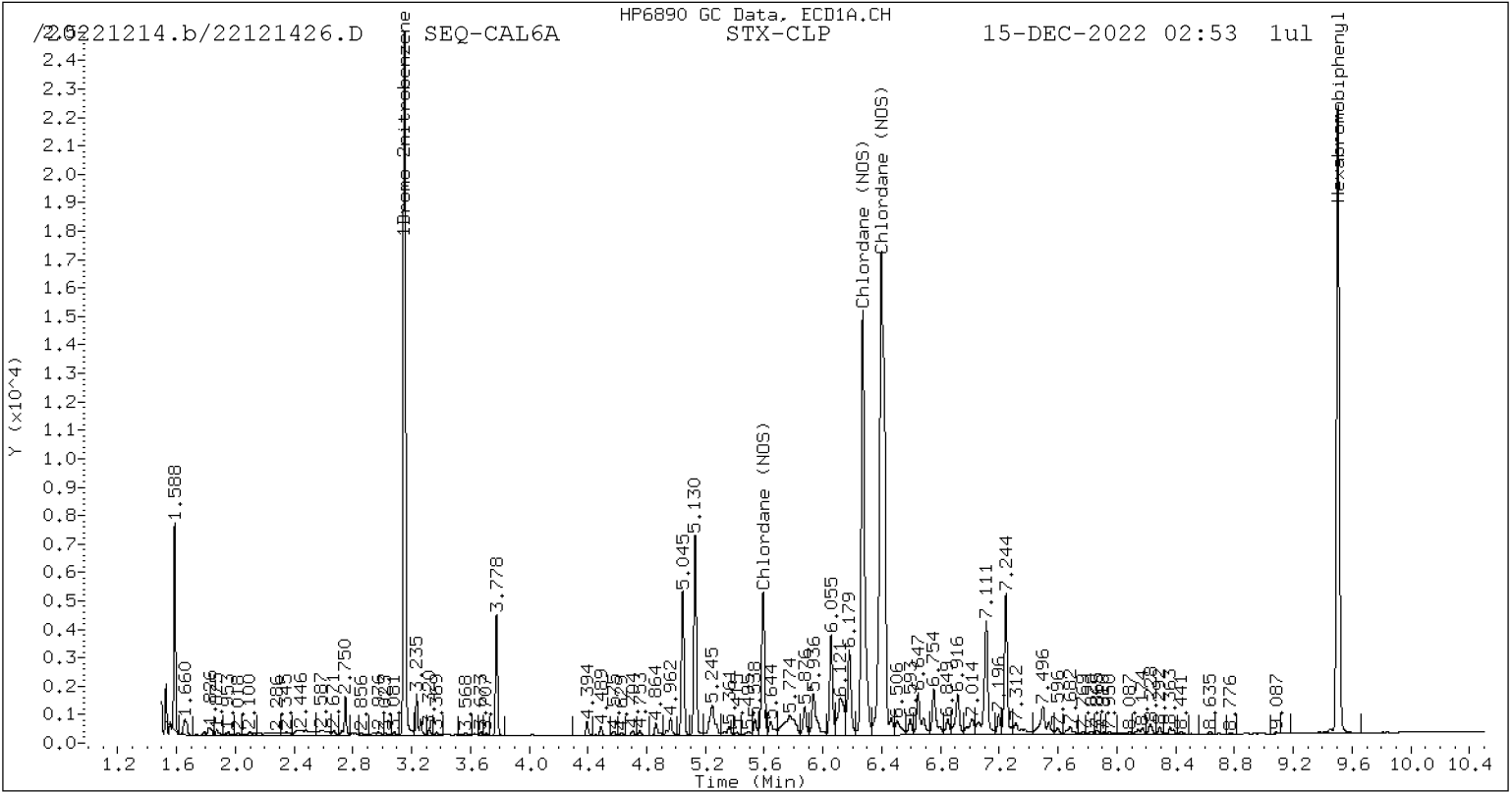
| Standard Cpnd      | Column 2       |             | %D    |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area |       |
| Bromo-Nitrobenzene | 1058848        | 779405      | -26.4 |
| Hexabromobiphenyl  | 797125         | 1068976     | 34.1  |

\* Standard Areas taken from Initial Cal Level 5  
 Initial Calibration Date: 14-DEC-2022  
 <- Indicates standard response outside Limits (-50 to +100%)

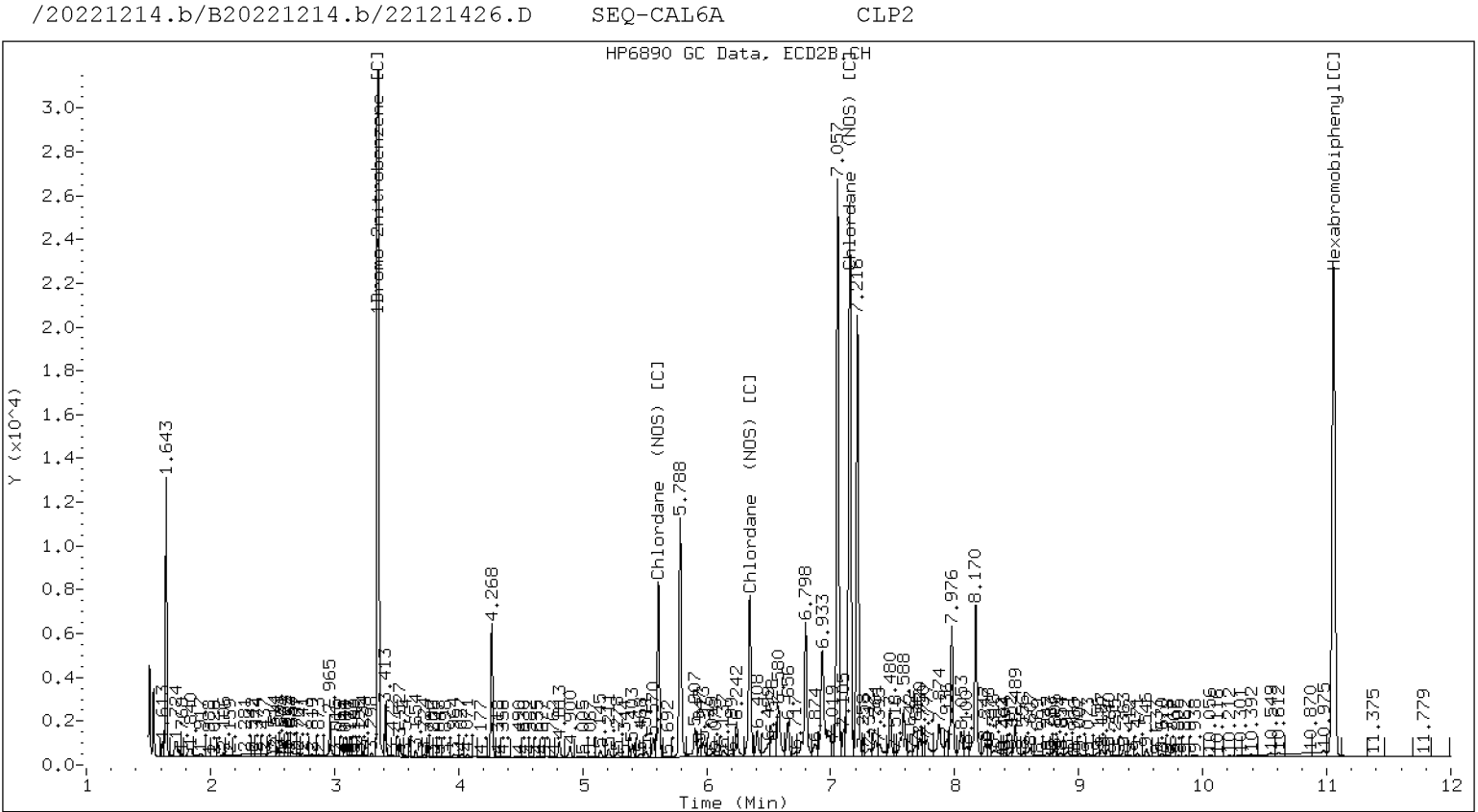
| Cpnd                                | Peak# | RT    | STX-CLP Col |        |                                  | Peak# | RT    | CLP2 Col |        |         |
|-------------------------------------|-------|-------|-------------|--------|----------------------------------|-------|-------|----------|--------|---------|
|                                     |       |       | Shift       | Height | Amount                           |       |       | Shift    | Height | Amount  |
| Chlordane (NOS)                     | 1     | 5.592 | -0.000      | 146950 | 375.8                            | 1     | 5.612 | -0.000   | 203386 | 402.0   |
| Chlordane (NOS)                     | 2     | 6.271 | -0.000      | 503310 | 388.5                            | 2     | 6.349 | -0.000   | 212637 | 374.2   |
| Chlordane (NOS)                     | 3     | 6.399 | 0.000       | 857451 | 378.4                            | 3     | 7.155 | -0.000   | 752631 | 391.6   |
| Total STX-CLPAve (3 peaks): 380.894 |       |       |             |        | Total CLP2Ave (3 peaks): 389.290 |       |       |          |        | RPD = 2 |
| Corrected Ave (3 peaks): 380.894    |       |       |             |        | Corrected Ave (3 peaks): 389.290 |       |       |          |        | RPD = 2 |



Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121426.D  
Data file 2: /20221214.b/B20221214.b/22121426.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TECHCHLOR.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL6A  
Client ID:  
Injection Date: 15-DEC-2022 02:53  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col |                | CLP2 Col |                | STX-CLP | CLP2   |     |               |
|-------------|----------------|----------|----------------|---------|--------|-----|---------------|
| RT          | Shift Response | RT       | Shift Response | on col  | on col | RPD | Compound/Flag |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121427.D  
Data file 2: /20221214.b/B20221214.b/22121427.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TECHCHLOR.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL7A  
Client ID:  
Injection Date: 15-DEC-2022 03:11  
Report Date: 12/16/2022 15:20  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col |       |          | CLP2 Col |       |          | STX-CLP | CLP2   | RPD | Compound/Flag        |
|-------------|-------|----------|----------|-------|----------|---------|--------|-----|----------------------|
| RT          | Shift | Response | RT       | Shift | Response | on col  | on col |     |                      |
| 9.380       | 0.025 | 1930     |          |       |          | 0.31    | 0.00   | --- | Decachlorobiphenyl   |
|             |       |          |          |       |          | 0.00    | 0.00   | --- | Tetrachloro-m-xylene |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

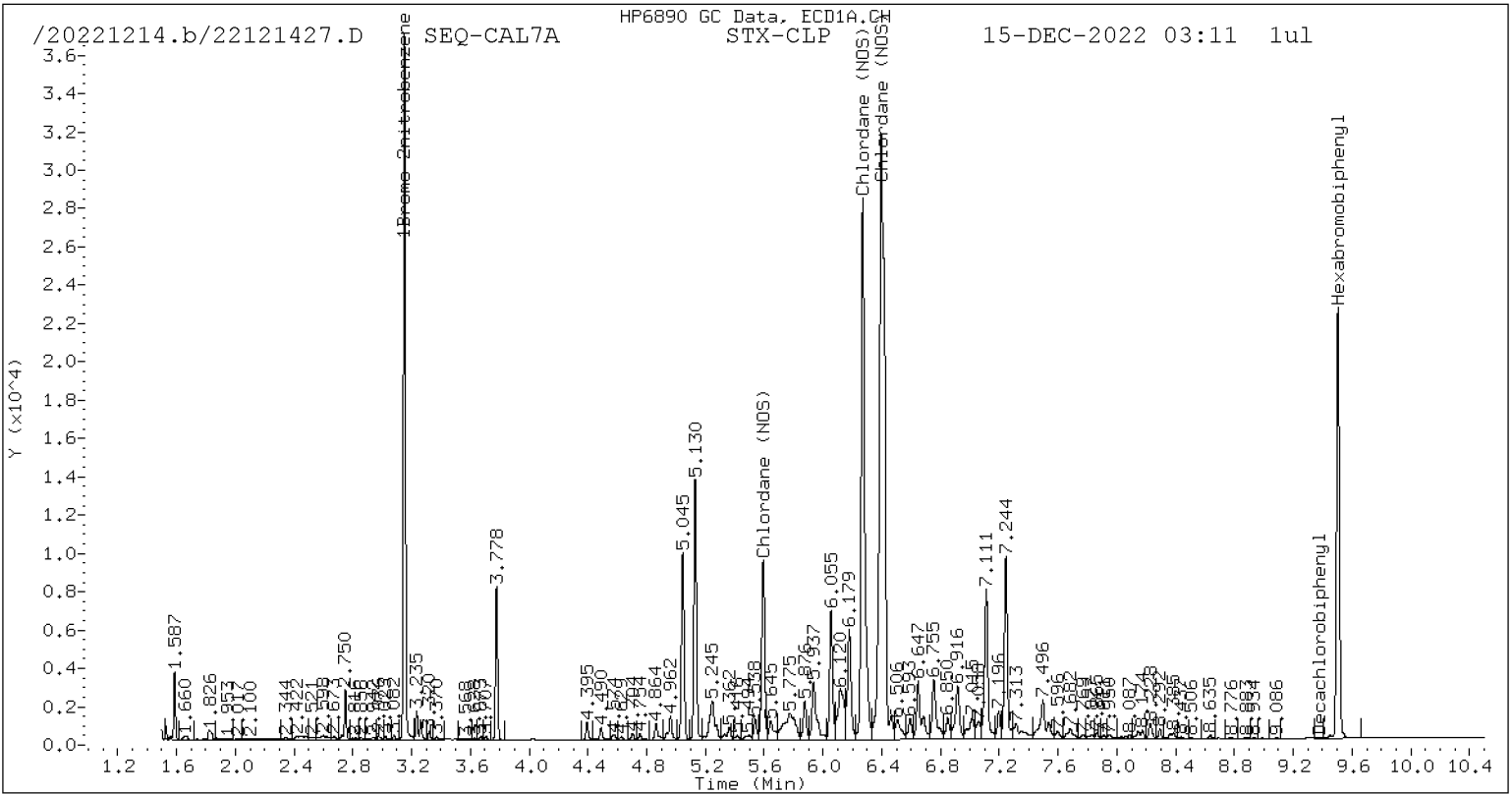
| Standard Cpnd      | Column 1       |             | %D    |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area |       |
| Bromo-Nitrobenzene | 710650         | 610159      | -14.1 |
| Hexabromobiphenyl  | 641833         | 692215      | 7.8   |

| Standard Cpnd      | Column 2       |             | %D    |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area |       |
| Bromo-Nitrobenzene | 1058848        | 790388      | -25.4 |
| Hexabromobiphenyl  | 797125         | 1059143     | 32.9  |

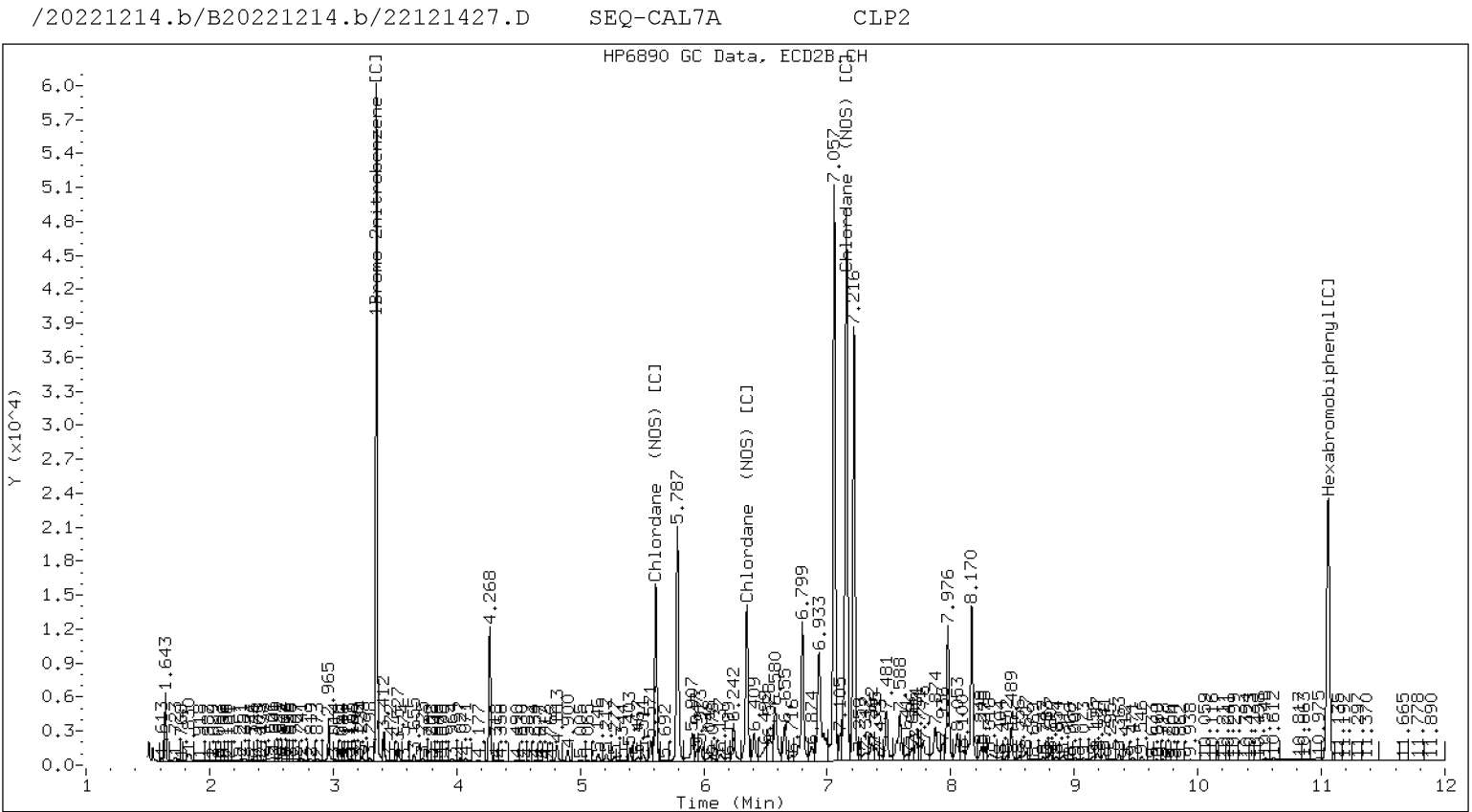
\* Standard Areas taken from Initial Cal Level 5  
 Initial Calibration Date: 14-DEC-2022  
 <- Indicates standard response outside Limits (-50 to +100%)

| Cpnd                                | Peak# | RT    | STX-CLP Col |         |                                  | Peak# | RT    | CLP2 Col |         |         |
|-------------------------------------|-------|-------|-------------|---------|----------------------------------|-------|-------|----------|---------|---------|
|                                     |       |       | Shift       | Height  | Amount                           |       |       | Shift    | Height  | Amount  |
| Chlordane (NOS)                     | 1     | 5.593 | 0.001       | 276980  | 715.3                            | 1     | 5.612 | 0.000    | 398620  | 795.3   |
| Chlordane (NOS)                     | 2     | 6.271 | -0.000      | 961368  | 749.3                            | 2     | 6.349 | 0.000    | 405170  | 719.7   |
| Chlordane (NOS)                     | 3     | 6.399 | -0.000      | 1631241 | 727.0                            | 3     | 7.155 | 0.000    | 1462876 | 768.2   |
| Total STX-CLPAve (3 peaks): 730.539 |       |       |             |         | Total CLP2Ave (3 peaks): 761.064 |       |       |          |         | RPD = 4 |
| Corrected Ave (3 peaks): 730.539    |       |       |             |         | Corrected Ave (3 peaks): 761.064 |       |       |          |         | RPD = 4 |

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121427.D  
Data file 2: /20221214.b/B20221214.b/22121427.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TECHCHLOR.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL7A  
Client ID:  
Injection Date: 15-DEC-2022 03:11  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP  | CLP2 | RPD   | Compound/Flag |        |        |     |               |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT          | Shift    | Response | RT   | Shift | Response      | on col | on col | RPD | Compound/Flag |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121428.D  
Data file 2: /20221214.b/B20221214.b/22121428.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TOXAPH.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL8A  
Client ID:  
Injection Date: 15-DEC-2022 03:29  
Report Date: 12/16/2022 15:20  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT     | CLP2 Col<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD  | Compound/Flag        |
|-------|-------------------------------|----------------------------|--------|----------------------------|-------------------|----------------|------|----------------------|
| 3.828 | 0.000 8893                    | 4.221 0.000 14795          | 4.221  | 0.000 14795                | 0.95              | 0.98           | 4.0  | Tetrachloro-m-xylene |
| 9.355 | 0.000 15511                   | 10.467 0.000 24896         | 10.467 | 0.000 24896                | 2.54              | 2.86           | 11.7 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 710650         | 691781      | -2.7 |
| Hexabromobiphenyl  | 641833         | 602865      | -6.1 |

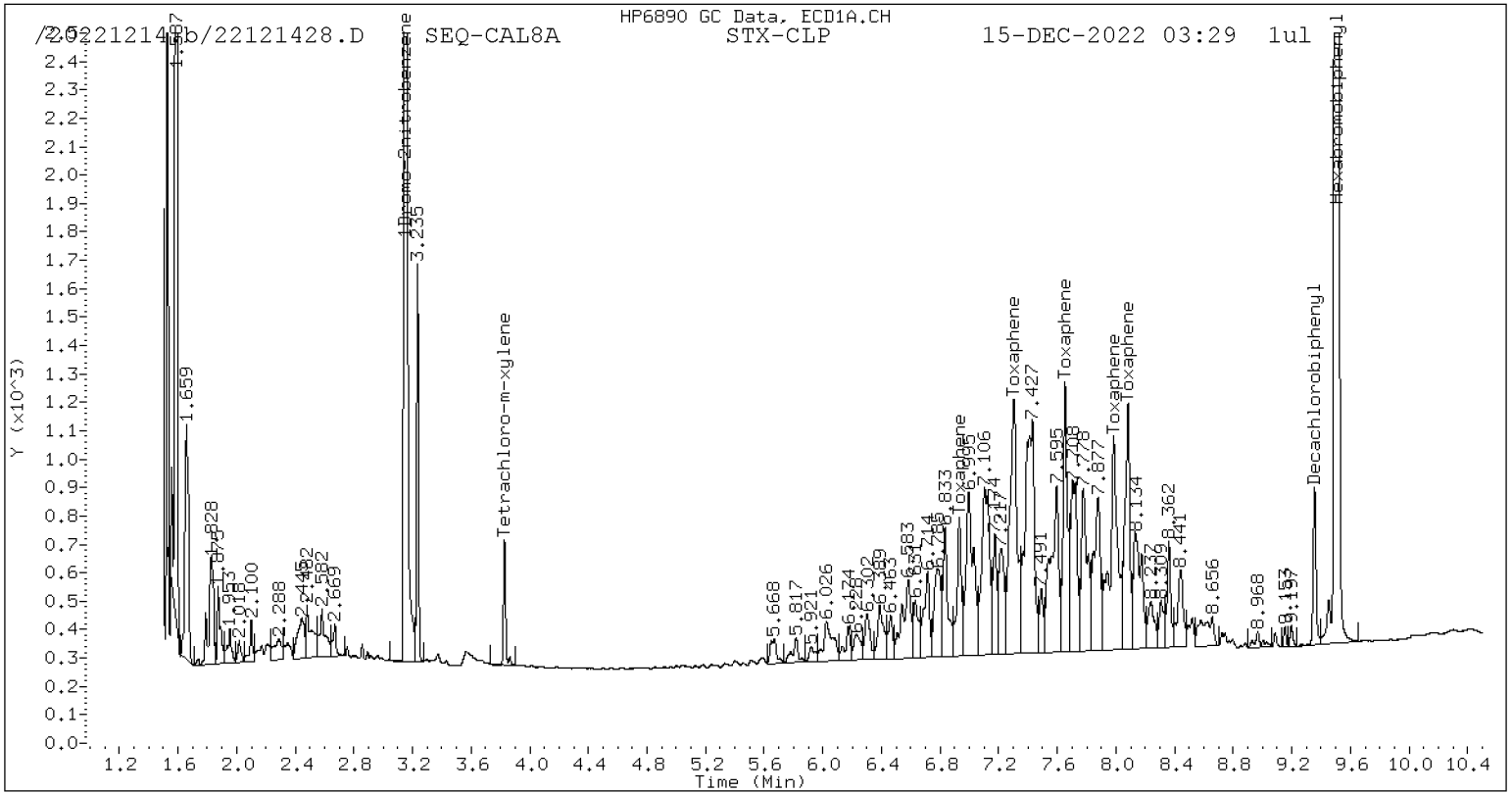
| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 1058848        | 1068328     | 0.9  |
| Hexabromobiphenyl  | 797125         | 788806      | -1.0 |

\* Standard Areas taken from Initial Cal Level 5  
 Initial Calibration Date: 14-DEC-2022  
 <- Indicates standard response outside Limits (-50 to +100%)

| Cpnd                        | Peak# | RT    | STX-CLP Col |        |         | Peak#                    | RT    | CLP2 Col |        |        |         |         |
|-----------------------------|-------|-------|-------------|--------|---------|--------------------------|-------|----------|--------|--------|---------|---------|
|                             |       |       | Shift       | Height | Amount  |                          |       | Shift    | Height | Amount |         |         |
| Toxaphene                   | 1     | 6.931 | 0.000       | 20939  | 118.9   | 1                        | 7.125 | -0.000   | 18390  | 124.1  |         |         |
| Toxaphene                   | 2     | 7.304 | 0.000       | 62921  | 127.5   | 2                        | 7.553 | -0.000   | 43437  | 130.4  |         |         |
| Toxaphene                   | 3     | 7.653 | -0.000      | 40147  | 126.2   | 3                        | 8.059 | -0.001   | 32235  | 127.1  |         |         |
| Toxaphene                   | 4     | 7.985 | -0.001      | 56816  | 133.6   | 4                        | 8.201 | -0.001   | 109296 | 132.1  |         |         |
| Toxaphene                   | 5     | 8.082 | -0.000      | 39643  | 123.4   | 5                        | 8.958 | -0.001   | 50997  | 125.7  |         |         |
| Total STX-CLPAve (5 peaks): |       |       |             |        | 125.907 | Total CLP2Ave (5 peaks): |       |          |        |        | 127.865 | RPD = 2 |
| Corrected Ave (5 peaks):    |       |       |             |        | 125.907 | Corrected Ave (5 peaks): |       |          |        |        | 127.865 | RPD = 2 |

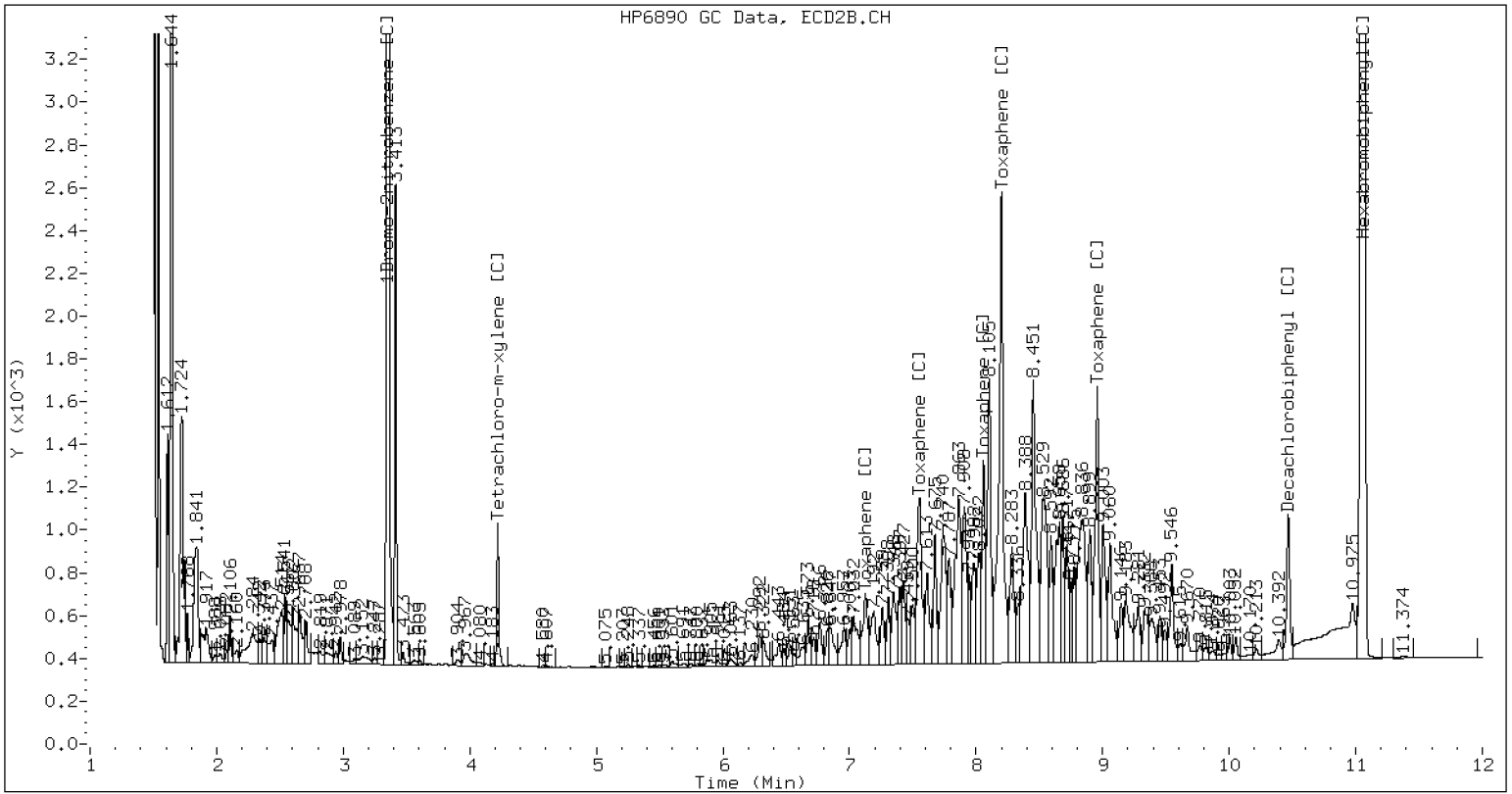


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121428.D SEQ-CAL8A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121428.D  
Data file 2: /20221214.b/B20221214.b/22121428.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TOXAPH.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL8A  
Client ID:  
Injection Date: 15-DEC-2022 03:29  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col       | STX-CLP | CLP2           | RPD    | Compound/Flag |  |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT          | Shift Response | RT      | Shift Response | on col | on col        |  |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121429.D  
Data file 2: /20221214.b/B20221214.b/22121429.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TOXAPH.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL9A  
Client ID:  
Injection Date: 15-DEC-2022 03:46  
Report Date: 12/16/2022 15:20  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col |        |          | CLP2 Col |        |          | STX-CLP | CLP2   | RPD | Compound/Flag        |
|-------------|--------|----------|----------|--------|----------|---------|--------|-----|----------------------|
| RT          | Shift  | Response | RT       | Shift  | Response | on col  | on col |     |                      |
| 3.828       | -0.000 | 18632    | 4.220    | -0.000 | 29829    | 1.92    | 1.92   | 0.1 | Tetrachloro-m-xylene |
| 9.355       | 0.000  | 29179    | 10.467   | 0.000  | 44716    | 4.64    | 4.98   | 7.1 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

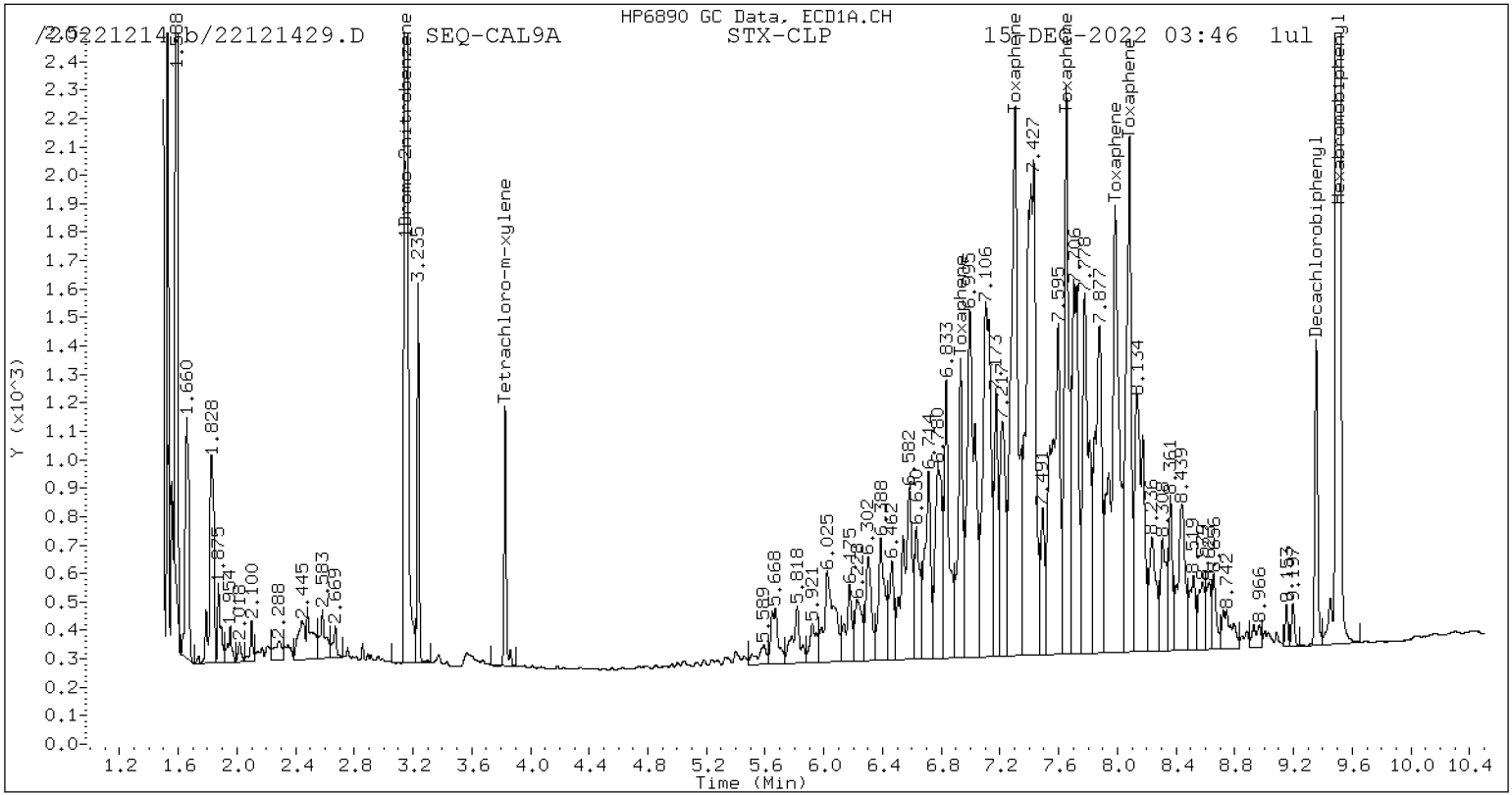
| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 710650         | 713620      | 0.4  |
| Hexabromobiphenyl  | 641833         | 620026      | -3.4 |

| Standard Cpnd      | Column 2       |             | %D  |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area |     |
| Bromo-Nitrobenzene | 1058848        | 1104488     | 4.3 |
| Hexabromobiphenyl  | 797125         | 811719      | 1.8 |

\* Standard Areas taken from Initial Cal Level 5  
 Initial Calibration Date: 14-DEC-2022  
 <- Indicates standard response outside Limits (-50 to +100%)

| Cpnd                        | Peak# | RT    | STX-CLP Col |        |         | Peak#                    | RT    | CLP2 Col |        |        | Amount  |         |
|-----------------------------|-------|-------|-------------|--------|---------|--------------------------|-------|----------|--------|--------|---------|---------|
|                             |       |       | Shift       | Height | Amount  |                          |       | Shift    | Height | Amount |         |         |
| Toxaphene                   | 1     | 6.931 | 0.000       | 47415  | 261.8   | 1                        | 7.125 | -0.001   | 38790  | 254.4  |         |         |
| Toxaphene                   | 2     | 7.302 | -0.001      | 134642 | 265.2   | 2                        | 7.552 | -0.001   | 89754  | 261.8  |         |         |
| Toxaphene                   | 3     | 7.652 | -0.001      | 86679  | 264.9   | 3                        | 8.059 | -0.001   | 67442  | 258.4  |         |         |
| Toxaphene                   | 4     | 7.985 | -0.001      | 125891 | 287.7   | 4                        | 8.200 | -0.001   | 220426 | 258.9  |         |         |
| Toxaphene                   | 5     | 8.081 | -0.000      | 85903  | 260.0   | 5                        | 8.958 | -0.001   | 104601 | 250.5  |         |         |
| Total STX-CLPAve (5 peaks): |       |       |             |        | 267.939 | Total CLP2Ave (5 peaks): |       |          |        |        | 256.784 | RPD = 4 |
| Corrected Ave (5 peaks):    |       |       |             |        | 267.939 | Corrected Ave (5 peaks): |       |          |        |        | 256.784 | RPD = 4 |

Pesticide Dual Column Chromatograms

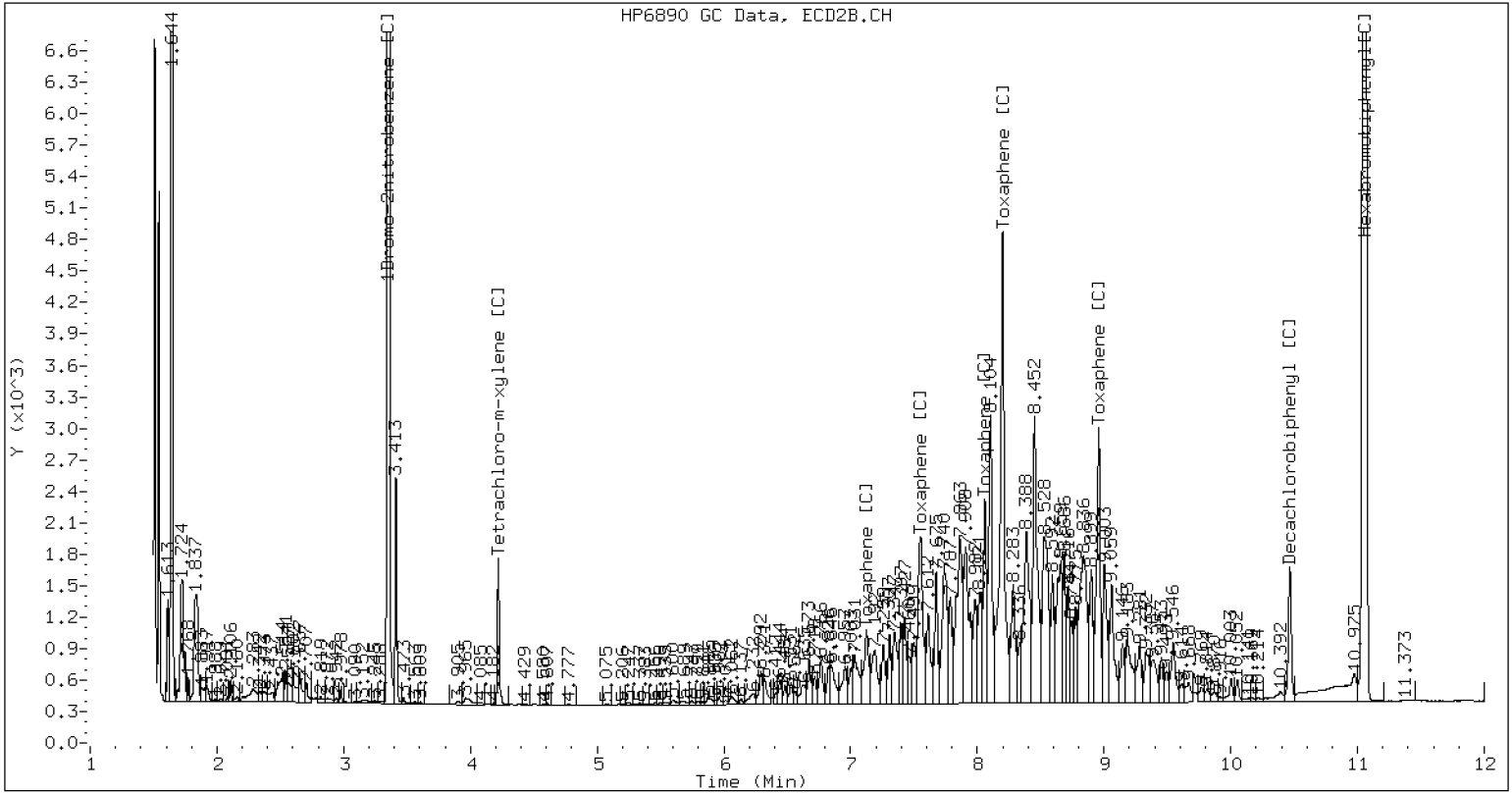


STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121429.D

SEQ-CAL9A

CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121429.D  
Data file 2: /20221214.b/B20221214.b/22121429.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TOXAPH.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CAL9A  
Client ID:  
Injection Date: 15-DEC-2022 03:46  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP  | CLP2 | RPD   | Compound/Flag |        |        |     |               |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT          | Shift    | Response | RT   | Shift | Response      | on col | on col | RPD | Compound/Flag |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121430.D  
Data file 2: /20221214.b/B20221214.b/22121430.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TOXAPH.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CALAA  
Client ID:  
Injection Date: 15-DEC-2022 04:04  
Report Date: 12/16/2022 15:20  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT     | CLP2 Col<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD  | Compound/Flag |                      |
|-------|-------------------------------|----------------------------|--------|----------------------------|-------------------|----------------|------|---------------|----------------------|
| 3.828 | -0.000                        | 37717                      | 4.220  | 0.000                      | 60469             | 3.98           | 3.98 | 0.0           | Tetrachloro-m-xylene |
| 9.355 | 0.000                         | 57106                      | 10.467 | 0.000                      | 82418             | 9.20           | 9.32 | 1.3           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 710650         | 696179      | -2.0 |
| Hexabromobiphenyl  | 641833         | 612804      | -4.5 |

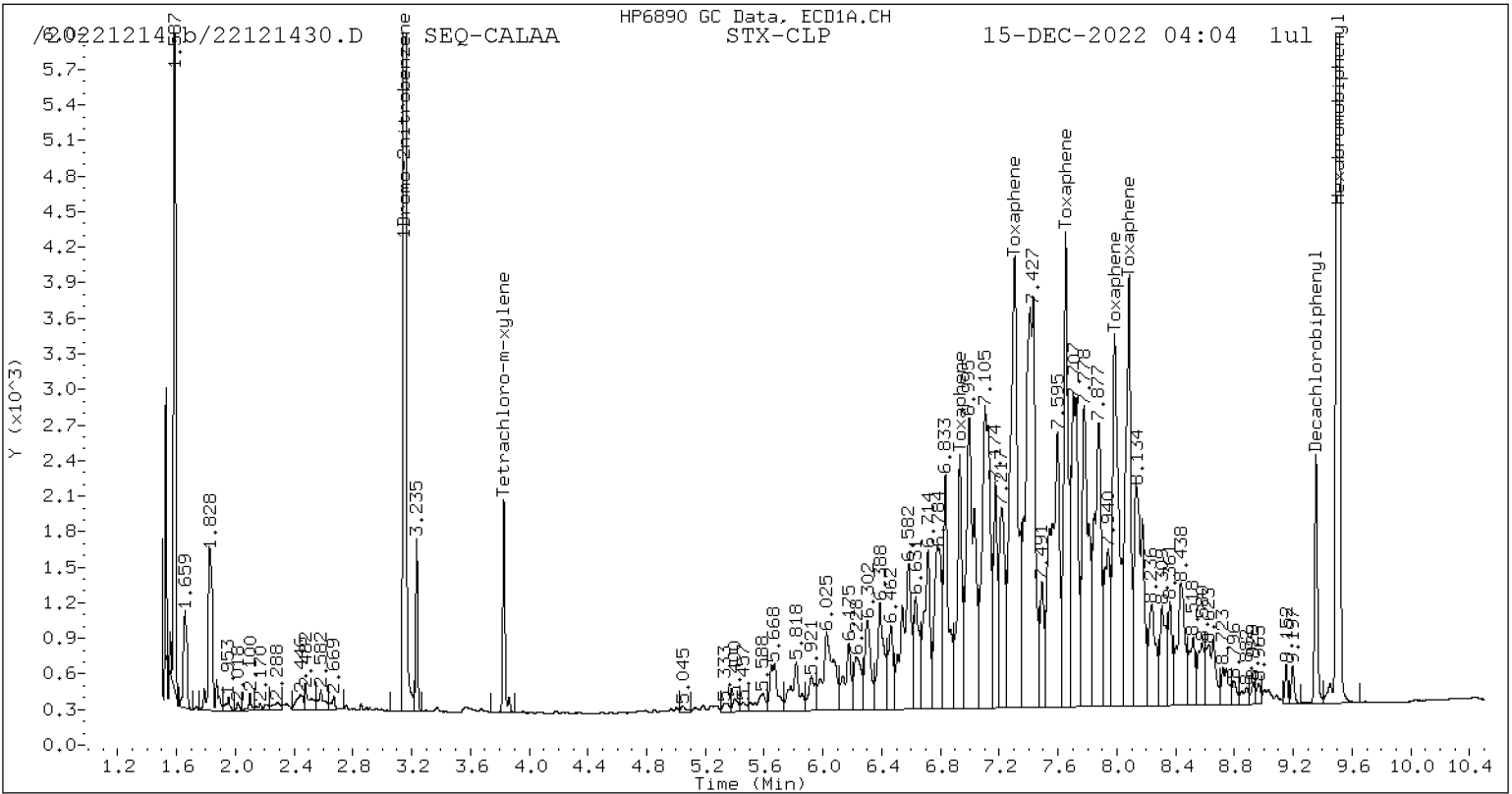
| Column 2           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 1058848        | 1078803     | 1.9 |
| Hexabromobiphenyl  | 797125         | 800071      | 0.4 |

\* Standard Areas taken from Initial Cal Level 5  
 Initial Calibration Date: 14-DEC-2022  
 <- Indicates standard response outside Limits (-50 to +100%)

| Cpnd                        | Peak# | RT    | STX-CLP Col |        |         | Peak#                    | RT    | CLP2 Col |        |        |         |         |
|-----------------------------|-------|-------|-------------|--------|---------|--------------------------|-------|----------|--------|--------|---------|---------|
|                             |       |       | Shift       | Height | Amount  |                          |       | Shift    | Height | Amount |         |         |
| Toxaphene                   | 1     | 6.931 | -0.000      | 96535  | 539.4   | 1                        | 7.125 | -0.001   | 78635  | 523.1  |         |         |
| Toxaphene                   | 2     | 7.304 | 0.000       | 273576 | 545.2   | 2                        | 7.553 | -0.001   | 179081 | 529.9  |         |         |
| Toxaphene                   | 3     | 7.652 | -0.001      | 177095 | 547.7   | 3                        | 8.059 | -0.001   | 133547 | 519.1  |         |         |
| Toxaphene                   | 4     | 7.985 | -0.001      | 190443 | 440.4   | 4                        | 8.200 | -0.001   | 437035 | 520.8  |         |         |
| Toxaphene                   | 5     | 8.082 | -0.000      | 175009 | 535.8   | 5                        | 8.958 | -0.001   | 209659 | 509.4  |         |         |
| Total STX-CLPAve (5 peaks): |       |       |             |        | 521.711 | Total CLP2Ave (5 peaks): |       |          |        |        | 520.468 | RPD = 0 |
| Corrected Ave (5 peaks):    |       |       |             |        | 521.711 | Corrected Ave (5 peaks): |       |          |        |        | 520.468 | RPD = 0 |

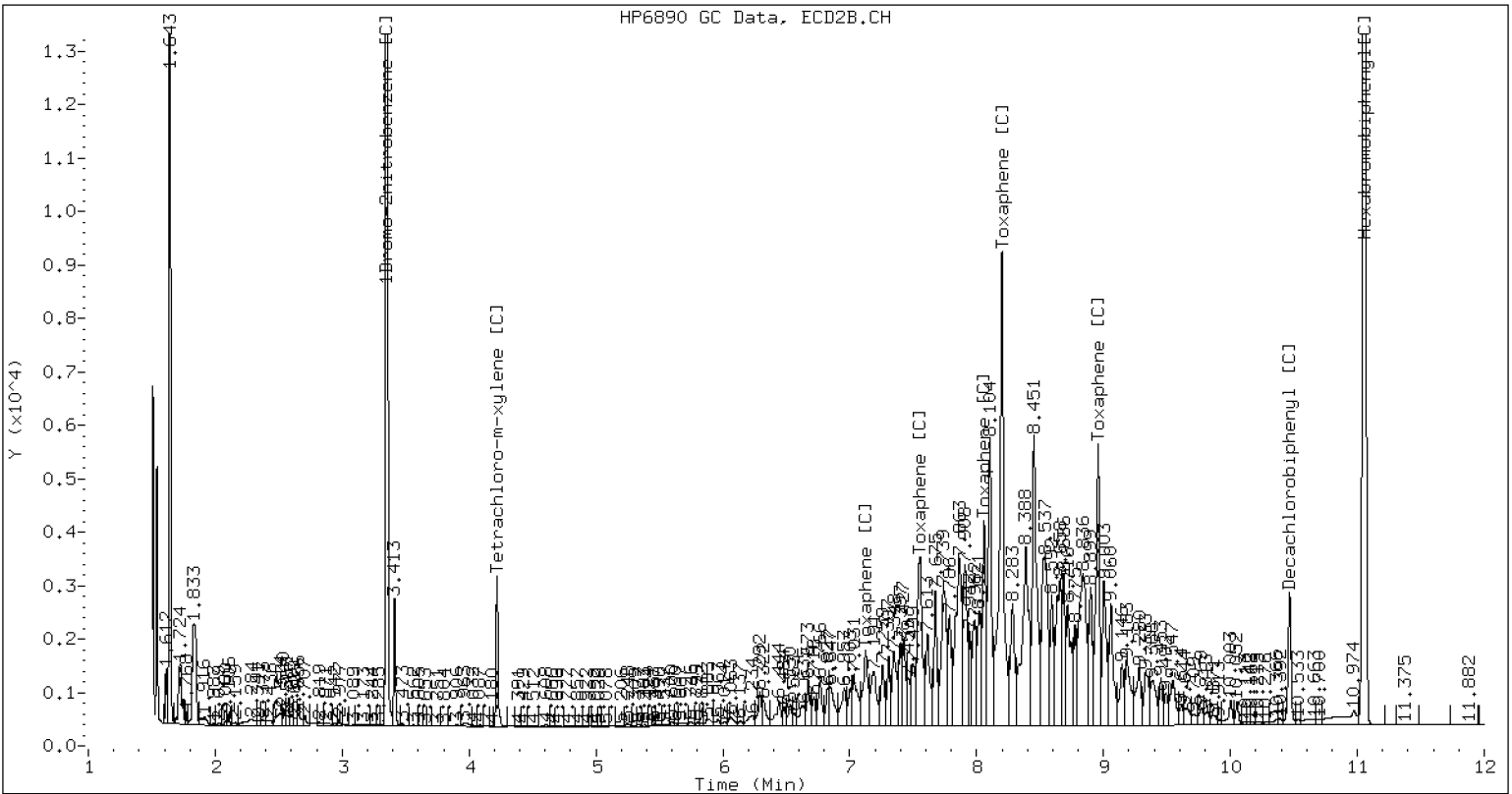


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121430.D SEQ-CALAA CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121430.D  
Data file 2: /20221214.b/B20221214.b/22121430.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TOXAPH.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CALAA  
Client ID:  
Injection Date: 15-DEC-2022 04:04  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col       | STX-CLP | CLP2           | RPD    | Compound/Flag |  |  |
|-------------|----------------|---------|----------------|--------|---------------|--|--|
| RT          | Shift Response | RT      | Shift Response | on col | on col        |  |  |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121431.D  
Data file 2: /20221214.b/B20221214.b/22121431.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TOXAPH.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CALAB  
Client ID:  
Injection Date: 15-DEC-2022 04:22  
Report Date: 12/16/2022 15:20  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT    | STX-CLP<br>on col | CLP2<br>on col | RPD                  | Compound/Flag |
|-------|-------------------------------|----------------------------|-------|-------------------|----------------|----------------------|---------------|
| 3.828 | 0.000 74347                   | 4.221 0.000 119694         | 7.73  | 7.77              | 0.5            | Tetrachloro-m-xylene |               |
| 9.355 | -0.000 107024                 | 10.466 -0.000 151970       | 17.00 | 17.11             | 0.7            | Decachlorobiphenyl   |               |

- \* Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated
- ~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

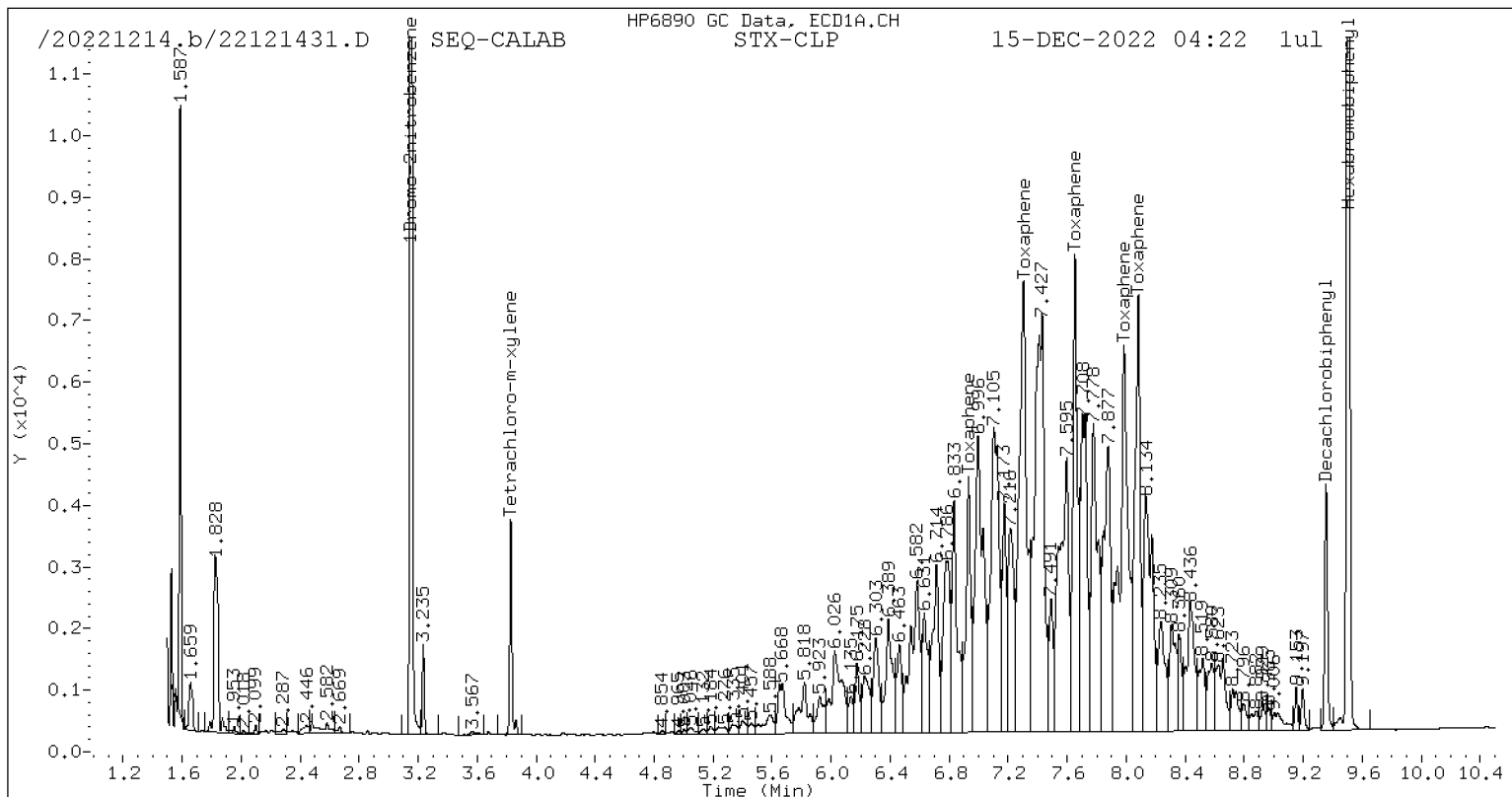
| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 710650         | 706924      | -0.5 |
| Hexabromobiphenyl  | 641833         | 621486      | -3.2 |

| Standard Cpnd      | Column 2       |             | %D  |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area |     |
| Bromo-Nitrobenzene | 1058848        | 1093936     | 3.3 |
| Hexabromobiphenyl  | 797125         | 803782      | 0.8 |

\* Standard Areas taken from Initial Cal Level 5  
 Initial Calibration Date: 14-DEC-2022  
 <- Indicates standard response outside Limits (-50 to +100%)

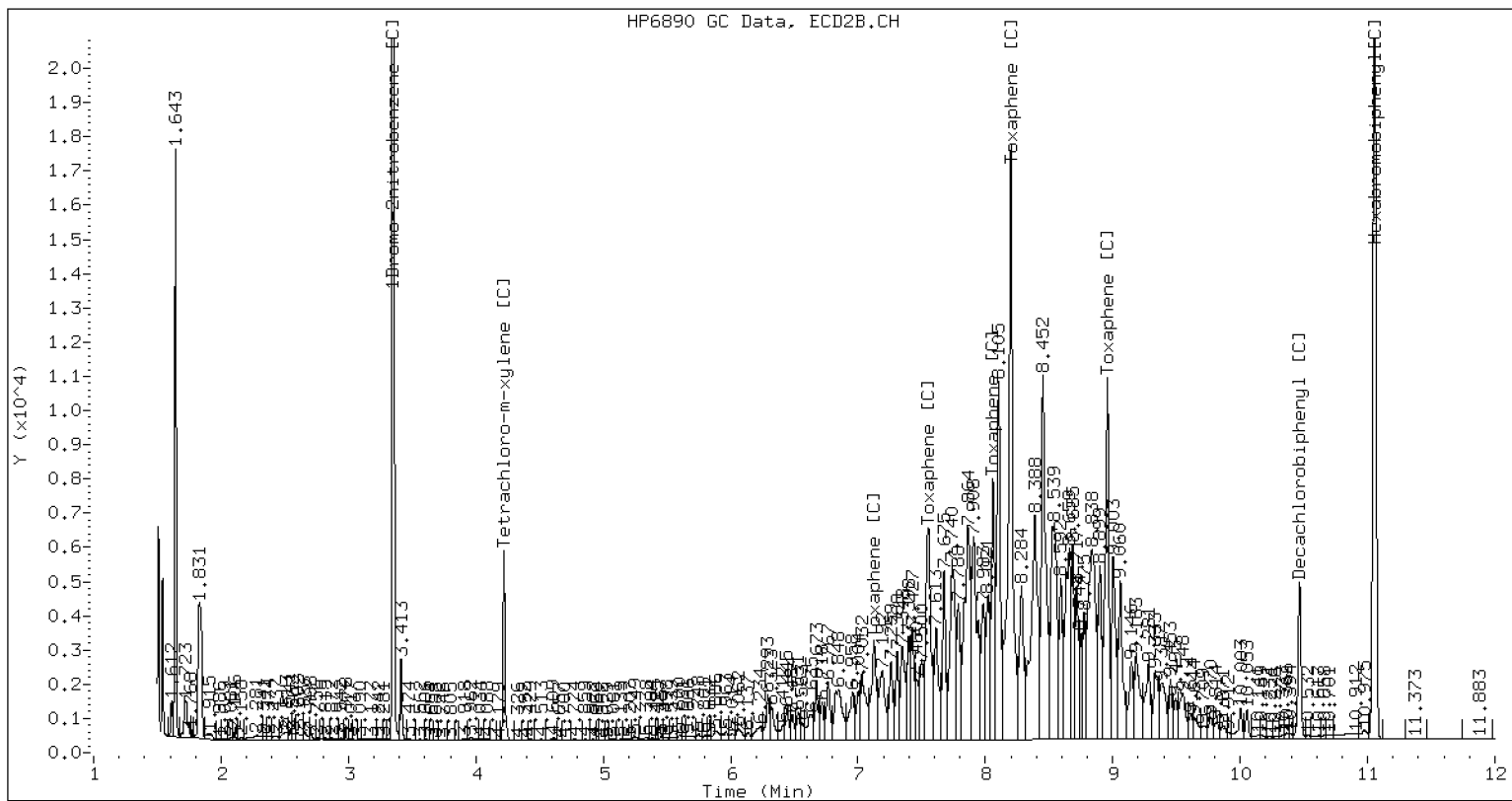
| Cpnd                        | Peak# | RT    | STX-CLP Col |        |          | Peak#                    | RT    | CLP2 Col |        |        |          |         |
|-----------------------------|-------|-------|-------------|--------|----------|--------------------------|-------|----------|--------|--------|----------|---------|
|                             |       |       | Shift       | Height | Amount   |                          |       | Shift    | Height | Amount |          |         |
| Toxaphene                   | 1     | 6.931 | 0.000       | 192757 | 1062.0   | 1                        | 7.125 | -0.000   | 156515 | 1036.5 |          |         |
| Toxaphene                   | 2     | 7.303 | -0.000      | 530863 | 1043.2   | 2                        | 7.553 | -0.001   | 349637 | 1029.8 |          |         |
| Toxaphene                   | 3     | 7.653 | -0.000      | 344194 | 1049.6   | 3                        | 8.059 | -0.000   | 265296 | 1026.5 |          |         |
| Toxaphene                   | 4     | 7.986 | -0.000      | 522105 | 1190.6   | 4                        | 8.201 | -0.001   | 854255 | 1013.3 |          |         |
| Toxaphene                   | 5     | 8.082 | -0.000      | 345477 | 1043.0   | 5                        | 8.958 | -0.001   | 416452 | 1007.1 |          |         |
| Total STX-CLPAve (5 peaks): |       |       |             |        | 1077.665 | Total CLP2Ave (5 peaks): |       |          |        |        | 1022.630 | RPD = 5 |
| Corrected Ave (5 peaks):    |       |       |             |        | 1077.665 | Corrected Ave (5 peaks): |       |          |        |        | 1022.630 | RPD = 5 |

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121431.D SEQ-CALAB CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121431.D  
Data file 2: /20221214.b/B20221214.b/22121431.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TOXAPH.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CALAB  
Client ID:  
Injection Date: 15-DEC-2022 04:22  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col       | STX-CLP | CLP2           | RPD    | Compound/Flag |  |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT          | Shift Response | RT      | Shift Response | on col | on col        |  |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121432.D  
Data file 2: /20221214.b/B20221214.b/22121432.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TOXAPH.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CALAC  
Client ID:  
Injection Date: 15-DEC-2022 04:40  
Report Date: 12/16/2022 15:20  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col |       |          | CLP2 Col |        |          | STX-CLP | CLP2   | RPD | Compound/Flag        |
|-------------|-------|----------|----------|--------|----------|---------|--------|-----|----------------------|
| RT          | Shift | Response | RT       | Shift  | Response | on col  | on col |     |                      |
| 3.828       | 0.000 | 169388   | 4.221    | 0.000  | 273030   | 18.51   | 18.69  | 1.0 | Tetrachloro-m-xylene |
| 9.356       | 0.001 | 234532   | 10.466   | -0.000 | 332716   | 40.53   | 40.11  | 1.0 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 710650         | 672958      | -5.3  |
| Hexabromobiphenyl  | 641833         | 571112      | -11.0 |

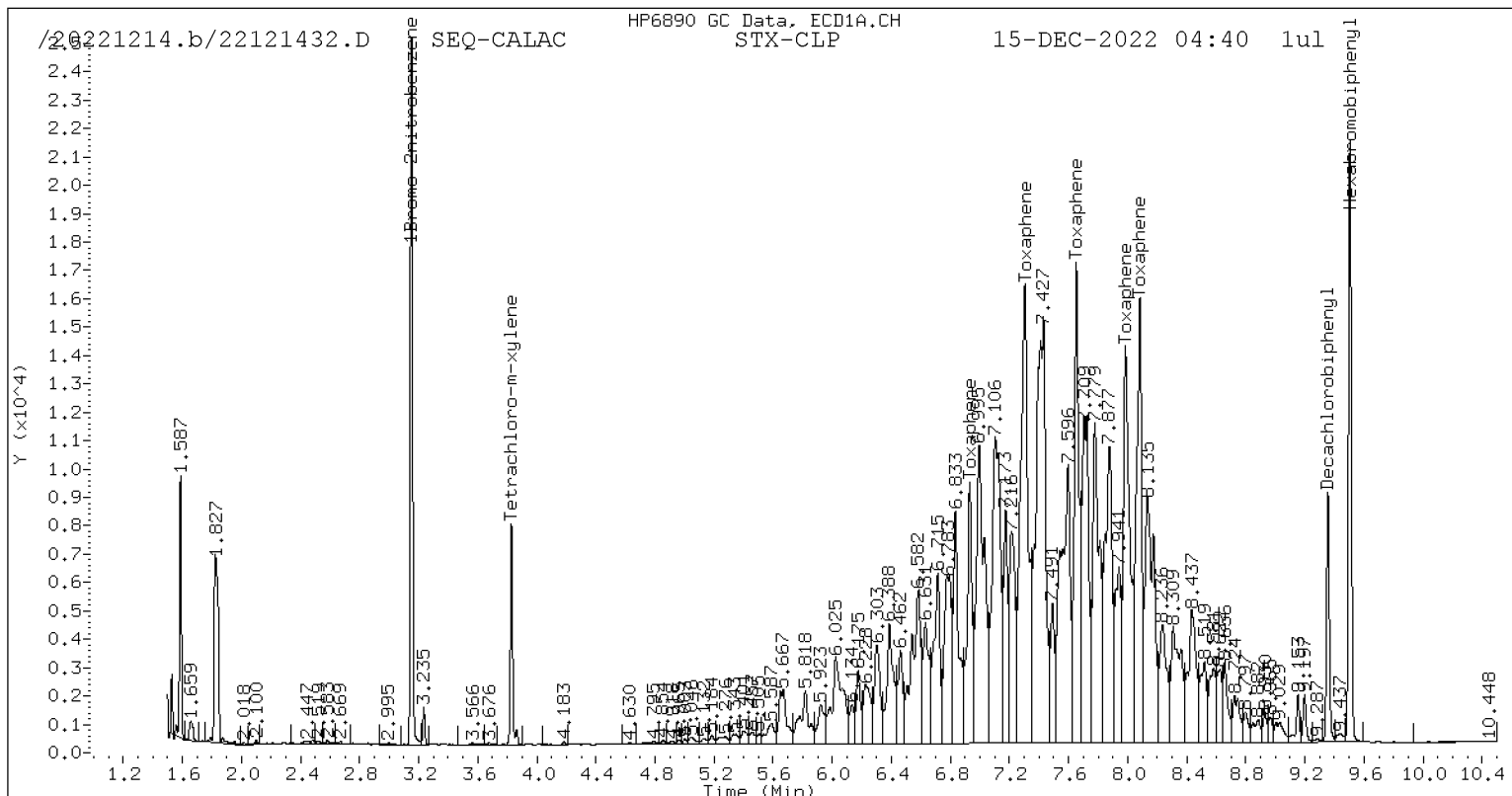
| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 1058848        | 1037593     | -2.0 |
| Hexabromobiphenyl  | 797125         | 750492      | -5.9 |

\* Standard Areas taken from Initial Cal Level 5  
 Initial Calibration Date: 14-DEC-2022  
 <- Indicates standard response outside Limits (-50 to +100%)

| Cpnd                        | Peak# | RT    | STX-CLP Col |         |          | Peak#                    | RT    | CLP2 Col |         |        |          |         |
|-----------------------------|-------|-------|-------------|---------|----------|--------------------------|-------|----------|---------|--------|----------|---------|
|                             |       |       | Shift       | Height  | Amount   |                          |       | Shift    | Height  | Amount |          |         |
| Toxaphene                   | 1     | 6.931 | 0.000       | 432250  | 2591.5   | 1                        | 7.126 | -0.000   | 358061  | 2539.5 |          |         |
| Toxaphene                   | 2     | 7.303 | 0.000       | 1180375 | 2524.1   | 2                        | 7.553 | 0.000    | 785942  | 2479.1 |          |         |
| Toxaphene                   | 3     | 7.653 | 0.000       | 762221  | 2529.4   | 3                        | 8.059 | -0.000   | 602985  | 2498.7 |          |         |
| Toxaphene                   | 4     | 7.986 | 0.000       | 863552  | 2142.9   | 4                        | 8.201 | -0.001   | 1929083 | 2450.8 |          |         |
| Toxaphene                   | 5     | 8.082 | 0.000       | 777497  | 2554.3   | 5                        | 8.958 | -0.001   | 962132  | 2492.0 |          |         |
| Total STX-CLPAve (5 peaks): |       |       |             |         | 2468.427 | Total CLP2Ave (5 peaks): |       |          |         |        | 2492.024 | RPD = 1 |
| Corrected Ave (5 peaks):    |       |       |             |         | 2468.427 | Corrected Ave (5 peaks): |       |          |         |        | 2492.024 | RPD = 1 |

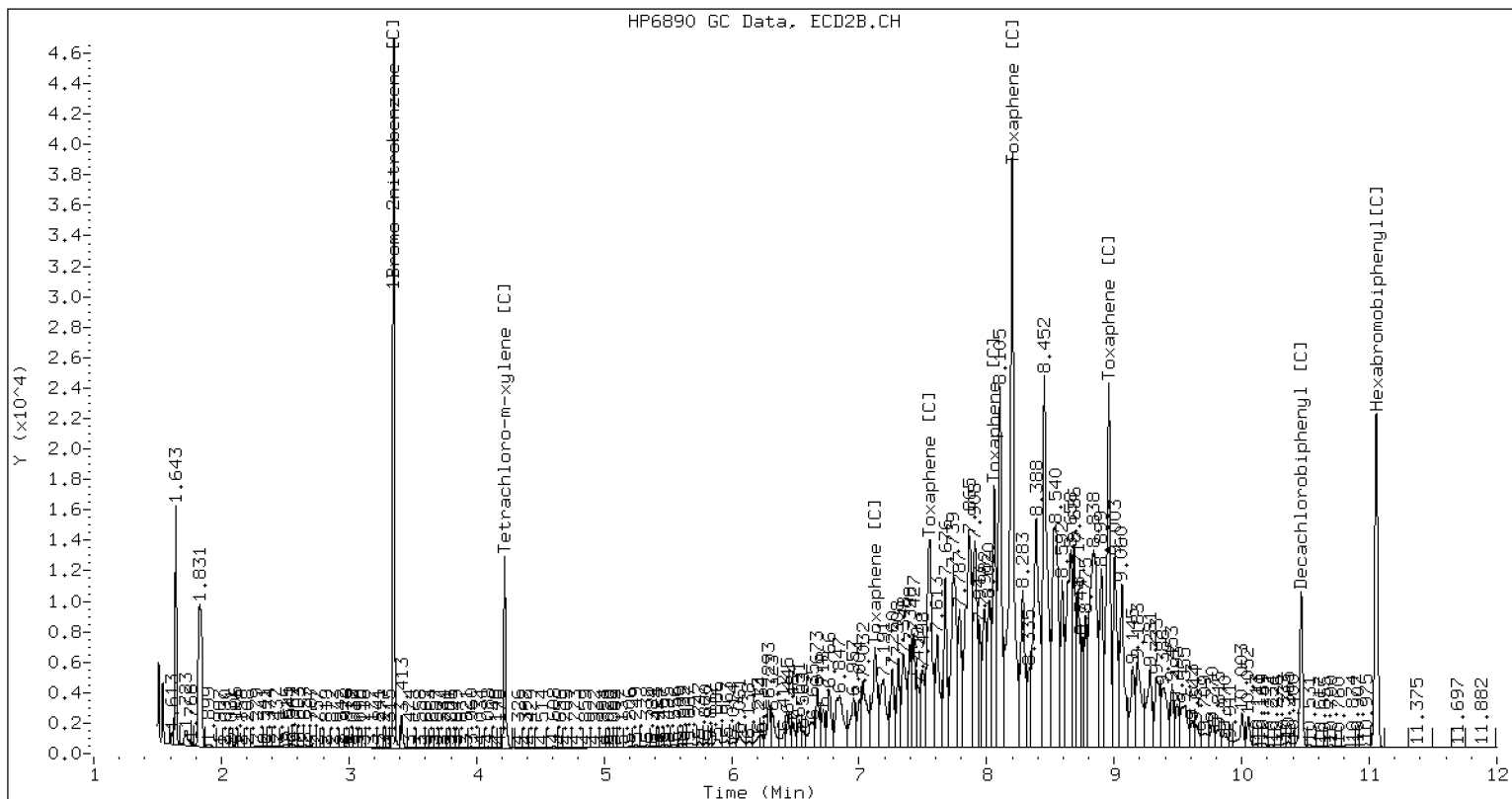


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121432.D SEQ-CALAC CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121432.D  
Data file 2: /20221214.b/B20221214.b/22121432.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TOXAPH.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CALAC  
Client ID:  
Injection Date: 15-DEC-2022 04:40  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col       | STX-CLP | CLP2           | RPD    | Compound/Flag |  |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT          | Shift Response | RT      | Shift Response | on col | on col        |  |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121433.D  
Data file 2: /20221214.b/B20221214.b/22121433.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TOXAPH.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CALAD  
Client ID:  
Injection Date: 15-DEC-2022 04:58  
Report Date: 12/16/2022 15:20  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col |        |          | CLP2 Col |        |          | STX-CLP | CLP2   | RPD | Compound/Flag        |
|-------------|--------|----------|----------|--------|----------|---------|--------|-----|----------------------|
| RT          | Shift  | Response | RT       | Shift  | Response | on col  | on col |     |                      |
| 3.828       | -0.000 | 329284   | 4.221    | 0.000  | 536251   | 34.78   | 35.63  | 2.4 | Tetrachloro-m-xylene |
| 9.356       | 0.000  | 464116   | 10.466   | -0.000 | 660536   | 76.95   | 77.19  | 0.3 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

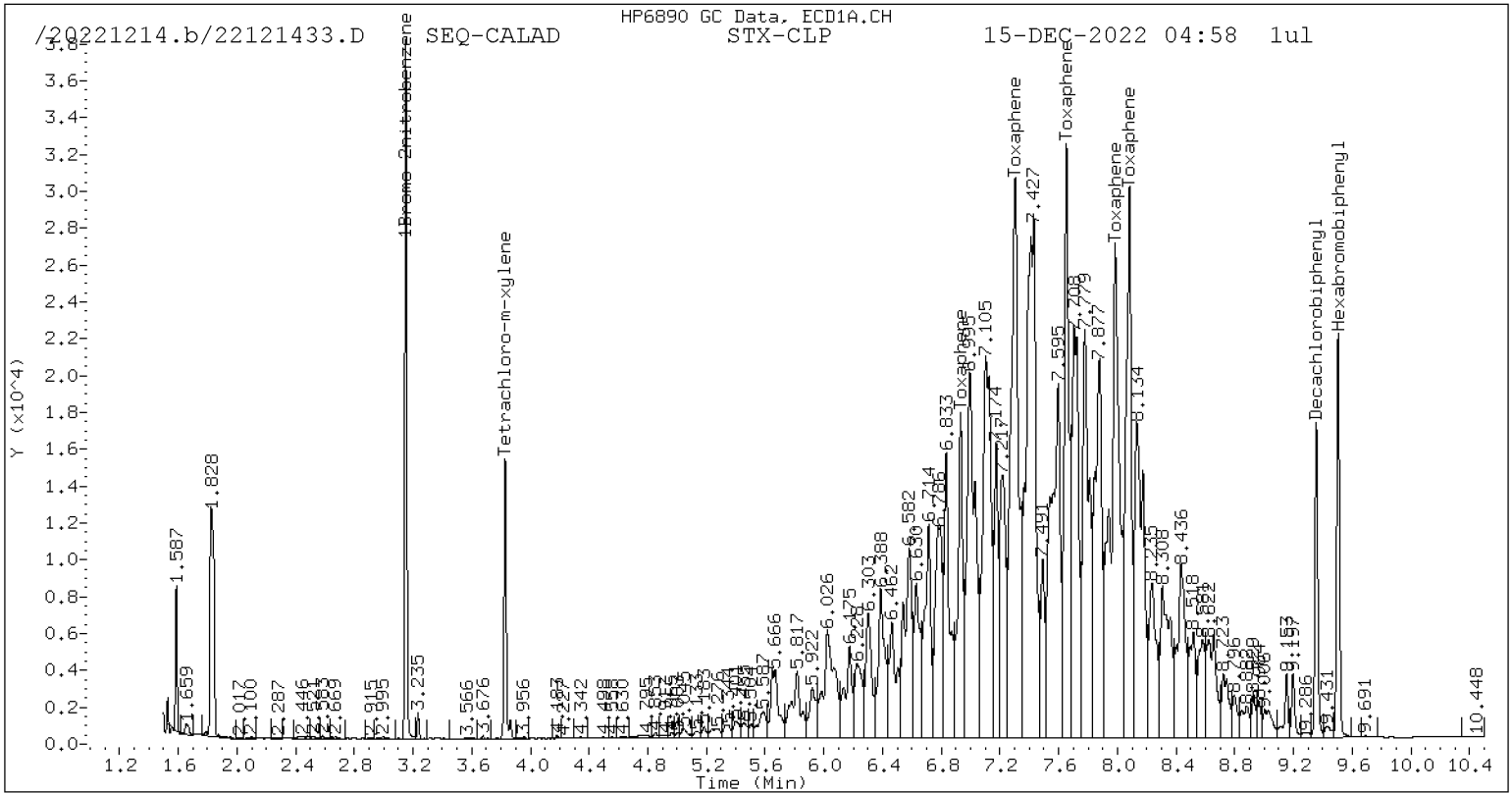
| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 710650         | 696178      | -2.0 |
| Hexabromobiphenyl  | 641833         | 595287      | -7.3 |

| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 1058848        | 1069205     | 1.0  |
| Hexabromobiphenyl  | 797125         | 774218      | -2.9 |

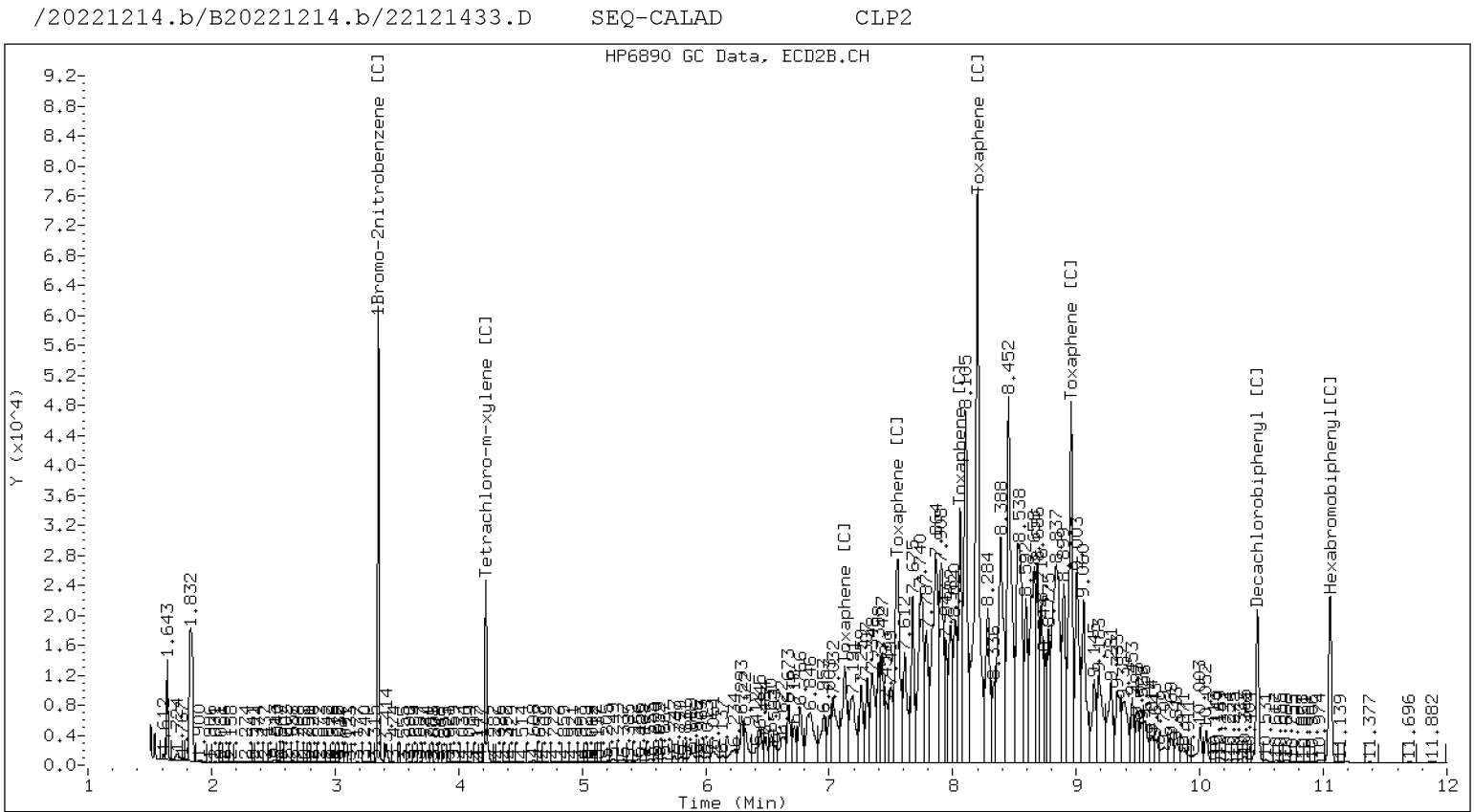
\* Standard Areas taken from Initial Cal Level 5  
 Initial Calibration Date: 14-DEC-2022  
 <- Indicates standard response outside Limits (-50 to +100%)

| Cpnd                        | Peak# | RT    | STX-CLP Col |         |          | Peak#                    | RT    | CLP2 Col |         |        |          |         |
|-----------------------------|-------|-------|-------------|---------|----------|--------------------------|-------|----------|---------|--------|----------|---------|
|                             |       |       | Shift       | Height  | Amount   |                          |       | Shift    | Height  | Amount |          |         |
| Toxaphene                   | 1     | 6.931 | 0.000       | 828531  | 4765.6   | 1                        | 7.126 | -0.000   | 704213  | 4841.5 |          |         |
| Toxaphene                   | 2     | 7.303 | -0.000      | 2275106 | 4667.4   | 2                        | 7.554 | 0.000    | 1533921 | 4690.3 |          |         |
| Toxaphene                   | 3     | 7.653 | -0.000      | 1493693 | 4755.4   | 3                        | 8.059 | -0.001   | 1192086 | 4788.5 |          |         |
| Toxaphene                   | 4     | 7.986 | 0.000       | 2318449 | 5519.5   | 4                        | 8.201 | -0.001   | 3835448 | 4723.4 |          |         |
| Toxaphene                   | 5     | 8.081 | -0.000      | 1509568 | 4758.0   | 5                        | 8.958 | -0.000   | 1957568 | 4914.8 |          |         |
| Total STX-CLPAve (5 peaks): |       |       |             |         | 4893.192 | Total CLP2Ave (5 peaks): |       |          |         |        | 4791.694 | RPD = 2 |
| Corrected Ave (5 peaks):    |       |       |             |         | 4893.192 | Corrected Ave (5 peaks): |       |          |         |        | 4791.694 | RPD = 2 |

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121433.D  
Data file 2: /20221214.b/B20221214.b/22121433.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TOXAPH.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CALAD  
Client ID:  
Injection Date: 15-DEC-2022 04:58  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP  | CLP2 | RPD   | Compound/Flag |        |        |     |               |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT          | Shift    | Response | RT   | Shift | Response      | on col | on col | RPD | Compound/Flag |

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Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121434.D  
Data file 2: /20221214.b/B20221214.b/22121434.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TOXAPH.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CALAE  
Client ID:  
Injection Date: 15-DEC-2022 05:16  
Report Date: 12/16/2022 15:20  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT     | STX-CLP<br>on col | CLP2<br>on col | RPD | Compound/Flag        |
|-------|-------------------------------|----------------------------|--------|-------------------|----------------|-----|----------------------|
| 3.828 | -0.000 626937                 | 4.221 0.000 1016753        | 4.221  | 65.66             | 67.54          | 2.8 | Tetrachloro-m-xylene |
| 9.355 | 0.000 899917                  | 10.467 0.000 1293767       | 10.467 | 145.37            | 151.89         | 4.4 | Decachlorobiphenyl   |

- \* Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated
- ~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 710650         | 702143      | -1.2 |
| Hexabromobiphenyl  | 641833         | 610983      | -4.8 |

| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1058848        | 1069521     | 1.0  |
| Hexabromobiphenyl  | 797125         | 770702      | -3.3 |

\* Standard Areas taken from Initial Cal Level 5  
 Initial Calibration Date: 14-DEC-2022  
 <- Indicates standard response outside Limits (-50 to +100%)

| Cpnd                        | Peak# | RT    | STX-CLP Col |         |          | Peak#                    | RT    | CLP2 Col |         |        |          |          |
|-----------------------------|-------|-------|-------------|---------|----------|--------------------------|-------|----------|---------|--------|----------|----------|
|                             |       |       | Shift       | Height  | Amount   |                          |       | Shift    | Height  | Amount |          |          |
| Toxaphene                   | 1     | 6.931 | 0.000       | 1553785 | 8707.6   | 1                        | 7.126 | 0.000    | 1336419 | 9229.8 |          |          |
| Toxaphene                   | 2     | 7.303 | -0.000      | 4216546 | 8428.1   | 2                        | 7.553 | 0.000    | 2900195 | 8908.4 |          |          |
| Toxaphene                   | 3     | 7.653 | -0.000      | 2652265 | 8227.0   | 3                        | 8.060 | 0.000    | 2299294 | 9278.2 |          |          |
| Toxaphene                   | 4     | 7.987 | 0.001       | 3225164 | 7480.8   | 4                        | 8.201 | 0.000    | 7496819 | 9274.6 |          |          |
| Toxaphene                   | 5     | 8.082 | -0.000      | 2882252 | 8851.2   | 5                        | 8.959 | 0.000    | 3913616 | 9870.7 |          |          |
| Total STX-CLPAve (5 peaks): |       |       |             |         | 8338.950 | Total CLP2Ave (5 peaks): |       |          |         |        | 9312.318 | RPD = 11 |
| Corrected Ave (5 peaks):    |       |       |             |         | 8338.950 | Corrected Ave (5 peaks): |       |          |         |        | 9312.318 | RPD = 11 |





Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121434.D  
Data file 2: /20221214.b/B20221214.b/22121434.D  
Method: \20221214.b\PEST.m  
Compound Sublist: TOXAPH.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: JGR

ARI ID: SEQ-CALAE  
Client ID:  
Injection Date: 15-DEC-2022 05:16  
Report Date: 12/15/2022 09:09  
Units: ng/mL  
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col       | STX-CLP | CLP2           | RPD    | Compound/Flag |  |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT          | Shift Response | RT      | Shift Response | on col | on col        |  |

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**INITIAL CALIBRATION CHECK**  
**EPA 8081B**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor OEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD6</u>                      | Calibration:      | <u>FL00041</u>         |
| Lab File ID:   | <u>23020903.D</u>                | Calibration Date: | <u>12/14/2022</u>      |
| Sequence:      | <u>SLB0156</u>                   | Injection Date:   | <u>02/09/23</u>        |
| Lab Sample ID: | <u>SLB0156-ICV1</u>              | Injection Time:   | <u>20:06</u>           |
| Sequence Name: | <u>INDAE</u>                     |                   |                        |

| COMPOUND                   | TYPE | CONC. (ng/mL) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |       |
|----------------------------|------|---------------|------|-----------------|-----------|-----|--------------|-------|
|                            |      | STD           | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT |
| Hexachlorobenzene          | A    | 20.000        | 20.9 | 1.4298940       | 1.4935180 |     | 4.4          | +/-20 |
| Hexachlorobenzene [2C]     | A    | 20.000        | 20.5 | 1.4591090       | 1.4966290 |     | 2.6          | +/-20 |
| Decachlorobiphenyl         | A    | 40.000        | 40.7 | 0.8105886       | 0.8252770 |     | 1.8          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000        | 39.6 | 0.8841805       | 0.8749715 |     | -1.0         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000        | 36.4 | 1.0879510       | 0.9889924 |     | -9.1         | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000        | 40.1 | 1.1261070       | 1.1300490 |     | 0.4          | +/-20 |

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020903.D  
Data file 2: /20230209.b/B20230209.b/23020903.D  
Method: \20230209.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: AA/JR

ARI ID: SEQ-ICV1  
Client ID:  
Injection Date: 09-FEB-2023 20:06  
Report Date: 02/11/2023 06:17  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Response | RT     | CLP2 Col<br>Shift Response | Response | STX-CLP<br>on col | CLP2<br>on col | RPD   | Compound/Flag        |
|-------|-------------------------------|----------------------|--------|----------------------------|----------|-------------------|----------------|-------|----------------------|
| 4.300 | -0.010                        | 306244               | 4.816  | -0.016                     | 493208   | 22.56             | 22.35          | 0.9   | alpha-BHC            |
| 4.682 | -0.011                        | 120773               | 5.292  | -0.017                     | 189765   | 23.10             | 22.62          | 2.1   | beta-BHC             |
| 4.865 | -0.011                        | 260979               | 5.643  | -0.018                     | 250366   | 23.52             | 13.78          | 52.3* | delta-BHC            |
| 4.600 | -0.011                        | 245387               | 5.211  | -0.018                     | 420688   | 20.85             | 22.47          | 7.5   | gamma-BHC (Lindane)  |
| 5.081 | -0.012                        | 247565               | 5.735  | -0.019                     | 373107   | 23.64             | 22.00          | 7.2   | Heptachlor           |
| 5.401 | -0.013                        | 261893               | 6.137  | -0.021                     | 425807   | 22.31             | 21.99          | 1.5   | Aldrin               |
| 6.074 | -0.015                        | 224967               | 6.794  | -0.020                     | 355677   | 22.10             | 22.21          | 0.5   | Heptachlor epoxide b |
| 6.517 | -0.014                        | 222801               | 7.238  | -0.020                     | 306609   | 23.85             | 21.72          | 9.4   | Endosulfan I         |
| 6.777 | -0.014                        | 416136               | 7.531  | -0.020                     | 657500   | 41.47             | 42.16          | 1.6   | Dieldrin             |
| 6.440 | -0.011                        | 413841               | 7.323  | -0.019                     | 622296   | 44.42             | 43.51          | 2.1   | 4,4'-DDE             |
| 7.027 | -0.014                        | 347428               | 7.856  | -0.020                     | 491309   | 42.22             | 44.52          | 5.3   | Endrin               |
| 7.265 | -0.013                        | 340096               | 8.068  | -0.019                     | 532631   | 45.91             | 47.09          | 2.5   | Endosulfan II        |
| 7.088 | -0.011                        | 367052               | 7.931  | -0.018                     | 530760   | 49.51             | 49.45          | 0.1   | 4,4'-DDD             |
| 8.128 | -0.013                        | 328801               | 8.667  | -0.019                     | 483017   | 46.74             | 48.63          | 3.9   | Endosulfan sulfate   |
| 7.378 | -0.013                        | 325866               | 8.248  | -0.018                     | 481588   | 43.50             | 46.48          | 6.6   | 4,4'-DDT             |
| 7.867 | -0.010                        | 747608               | 8.891  | -0.018                     | 970314   | 225.20            | 211.64         | 6.2   | Methoxychlor         |
| 8.401 | -0.013                        | 384430               | 9.190  | -0.019                     | 507905   | 47.71             | 47.34          | 0.8   | Endrin ketone        |
| 7.693 | -0.013                        | 269326               | 8.399  | -0.019                     | 356930   | 45.58             | 44.73          | 1.9   | Endrin aldehyde      |
| 6.217 | -0.013                        | 232325               | 7.005  | -0.020                     | 350520   | 22.47             | 21.95          | 2.4   | trans-Chlordane      |
| 6.363 | -0.013                        | 213673               | 7.165  | -0.020                     | 311151   | 20.61             | 19.92          | 3.4   | cis-Chlordane        |
| 2.296 | -0.007                        | 278841               | 2.474  | -0.008                     | 277393   | 19.60             | 13.24          | 38.8  | Hexachlorobutadiene  |
| 4.143 | -0.009                        | 263321               | 4.677  | -0.016                     | 411948   | 20.89             | 20.51          | 1.8   | Hexachlorobenzene    |
| 3.791 | -0.009                        | 348737               | 4.183  | -0.014                     | 622093   | 36.36             | 40.14          | 9.9   | Tetrachloro-m-xylene |
| 9.307 | -0.011                        | 259007               | 10.405 | -0.024                     | 339548   | 40.72             | 39.58          | 2.8   | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D  |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area |     |
| Bromo-Nitrobenzene | 672426         | 705237      | 4.9 |
| Hexabromobiphenyl  | 609723         | 627685      | 2.9 |

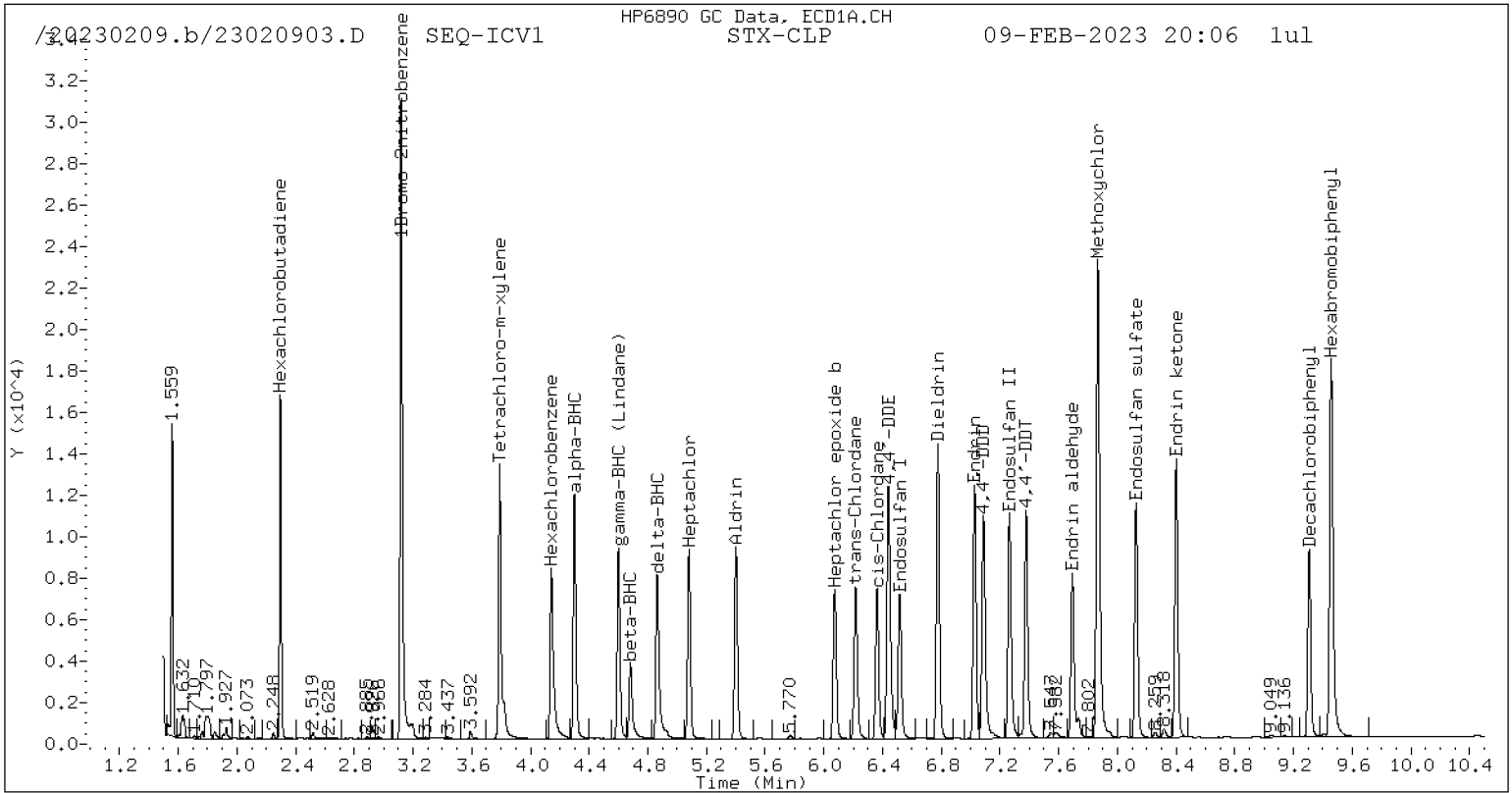
| Standard Cpnd      | Column 2       |             | %D  |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area |     |
| Bromo-Nitrobenzene | 1006482        | 1101002     | 9.4 |
| Hexabromobiphenyl  | 769764         | 776135      | 0.8 |

\* Standard Areas taken from Initial Cal Level 5

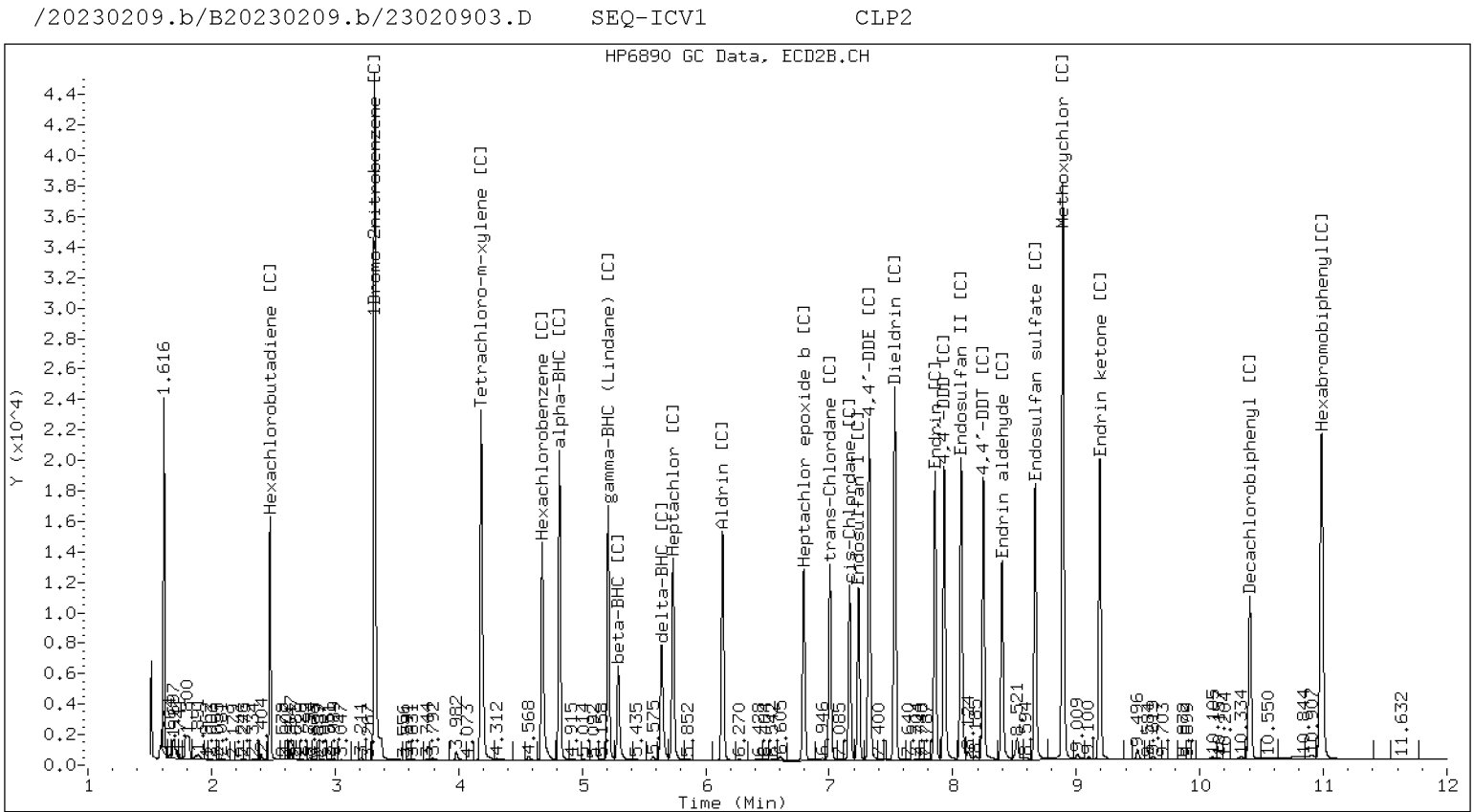
Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO



**CONTINUING CALIBRATION CHECK**  
**EPA 8081B**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD6</u>                      | Calibration:      | <u>FL00041</u>         |
| Lab File ID:   | <u>23020920.D</u>                | Calibration Date: | <u>12/14/2022</u>      |
| Sequence:      | <u>SLB0156</u>                   | Injection Date:   | <u>02/10/23</u>        |
| Lab Sample ID: | <u>SLB0156-CCV1</u>              | Injection Time:   | <u>01:10</u>           |
| Sequence Name: | <u>INDAE</u>                     |                   |                        |

| COMPOUND                   | TYPE | CONC. (ng/mL) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD           | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Hexachlorobenzene          | A    | 20.000        | 21.7 | 1.4298940             | 1.5522790 |     | 8.6          | +/-20 |
| Hexachlorobenzene [2C]     | A    | 20.000        | 19.2 | 1.4591090             | 1.4036620 |     | -3.8         | +/-20 |
| Decachlorobiphenyl         | A    | 40.000        | 40.3 | 0.8105886             | 0.8166619 |     | 0.7          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000        | 41.3 | 0.8841805             | 0.9129236 |     | 3.3          | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000        | 39.9 | 1.0879510             | 1.0862260 |     | -0.2         | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000        | 38.3 | 1.1261070             | 1.0775590 |     | -4.3         | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020920.D  
Data file 2: /20230209.b/B20230209.b/23020920.D  
Method: \20230209.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: AA/JR

ARI ID: SEQ-CCV1  
Client ID:  
Injection Date: 10-FEB-2023 01:10  
Report Date: 02/11/2023 06:18  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Response | RT     | CLP2 Col<br>Shift Response | Response | STX-CLP<br>on col | CLP2<br>on col | RPD   | Compound/Flag        |
|-------|-------------------------------|----------------------|--------|----------------------------|----------|-------------------|----------------|-------|----------------------|
| 4.301 | -0.009                        | 162721               | 4.817  | -0.016                     | 251816   | 22.96             | 20.24          | 12.6  | alpha-BHC            |
| 4.684 | -0.009                        | 64541                | 5.292  | -0.017                     | 95371    | 23.66             | 20.17          | 15.9  | beta-BHC             |
| 4.867 | -0.009                        | 136484               | 5.643  | -0.018                     | 141855   | 23.56             | 13.84          | 52.0* | delta-BHC            |
| 4.602 | -0.010                        | 132085               | 5.211  | -0.018                     | 211508   | 21.50             | 20.04          | 7.0   | gamma-BHC (Lindane)  |
| 5.081 | -0.011                        | 134855               | 5.735  | -0.019                     | 193638   | 24.67             | 20.25          | 19.7  | Heptachlor           |
| 5.401 | -0.013                        | 140568               | 6.137  | -0.021                     | 203493   | 22.94             | 18.64          | 20.7  | Aldrin               |
| 6.075 | -0.014                        | 120019               | 6.793  | -0.021                     | 168574   | 22.59             | 18.67          | 19.0  | Heptachlor epoxide b |
| 6.518 | -0.013                        | 118843               | 7.237  | -0.020                     | 137802   | 24.38             | 17.32          | 33.9  | Endosulfan I         |
| 6.778 | -0.013                        | 222835               | 7.531  | -0.020                     | 297123   | 42.55             | 33.80          | 22.9  | Dieldrin             |
| 6.442 | -0.010                        | 213444               | 7.324  | -0.018                     | 280623   | 43.89             | 34.81          | 23.1  | 4,4'-DDE             |
| 7.028 | -0.014                        | 156734               | 7.856  | -0.020                     | 186803   | 37.70             | 36.16          | 4.2   | Endrin               |
| 7.265 | -0.013                        | 182927               | 8.068  | -0.019                     | 238666   | 48.88             | 45.07          | 8.1   | Endosulfan II        |
| 7.089 | -0.010                        | 186547               | 7.931  | -0.018                     | 226858   | 49.80             | 45.15          | 9.8   | 4,4'-DDD             |
| 8.128 | -0.013                        | 200004               | 8.666  | -0.020                     | 213005   | 56.28             | 45.81          | 20.5  | Endosulfan sulfate   |
| 7.380 | -0.011                        | 175165               | 8.248  | -0.018                     | 223070   | 46.28             | 45.99          | 0.6   | 4,4'-DDT             |
| 7.867 | -0.010                        | 405802               | 8.890  | -0.018                     | 491922   | 241.94            | 229.20         | 5.4   | Methoxychlor         |
| 8.401 | -0.013                        | 200773               | 9.190  | -0.020                     | 247948   | 49.32             | 49.37          | 0.1   | Endrin ketone        |
| 7.694 | -0.013                        | 148679               | 8.399  | -0.019                     | 168469   | 49.80             | 45.10          | 9.9   | Endrin aldehyde      |
| 6.217 | -0.012                        | 122104               | 7.005  | -0.020                     | 158474   | 22.63             | 17.60          | 25.0  | trans-Chlordane      |
| 6.363 | -0.012                        | 113012               | 7.165  | -0.020                     | 146555   | 20.88             | 16.64          | 22.6  | cis-Chlordane        |
| 2.298 | -0.006                        | 157884               | 2.476  | -0.007                     | 165186   | 21.27             | 13.98          | 41.3* | Hexachlorobutadiene  |
| 4.146 | -0.007                        | 142850               | 4.678  | -0.015                     | 217809   | 21.71             | 19.24          | 12.1  | Hexachlorobenzene    |
| 3.793 | -0.007                        | 199922               | 4.184  | -0.012                     | 334414   | 39.94             | 38.28          | 4.2   | Tetrachloro-m-xylene |
| 9.307 | -0.011                        | 129494               | 10.404 | -0.025                     | 165849   | 40.30             | 41.30          | 2.5   | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits



INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D    |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area |       |
| Bromo-Nitrobenzene | 672426         | 368104      | -45.3 |
| Hexabromobiphenyl  | 609723         | 317130      | -48.0 |

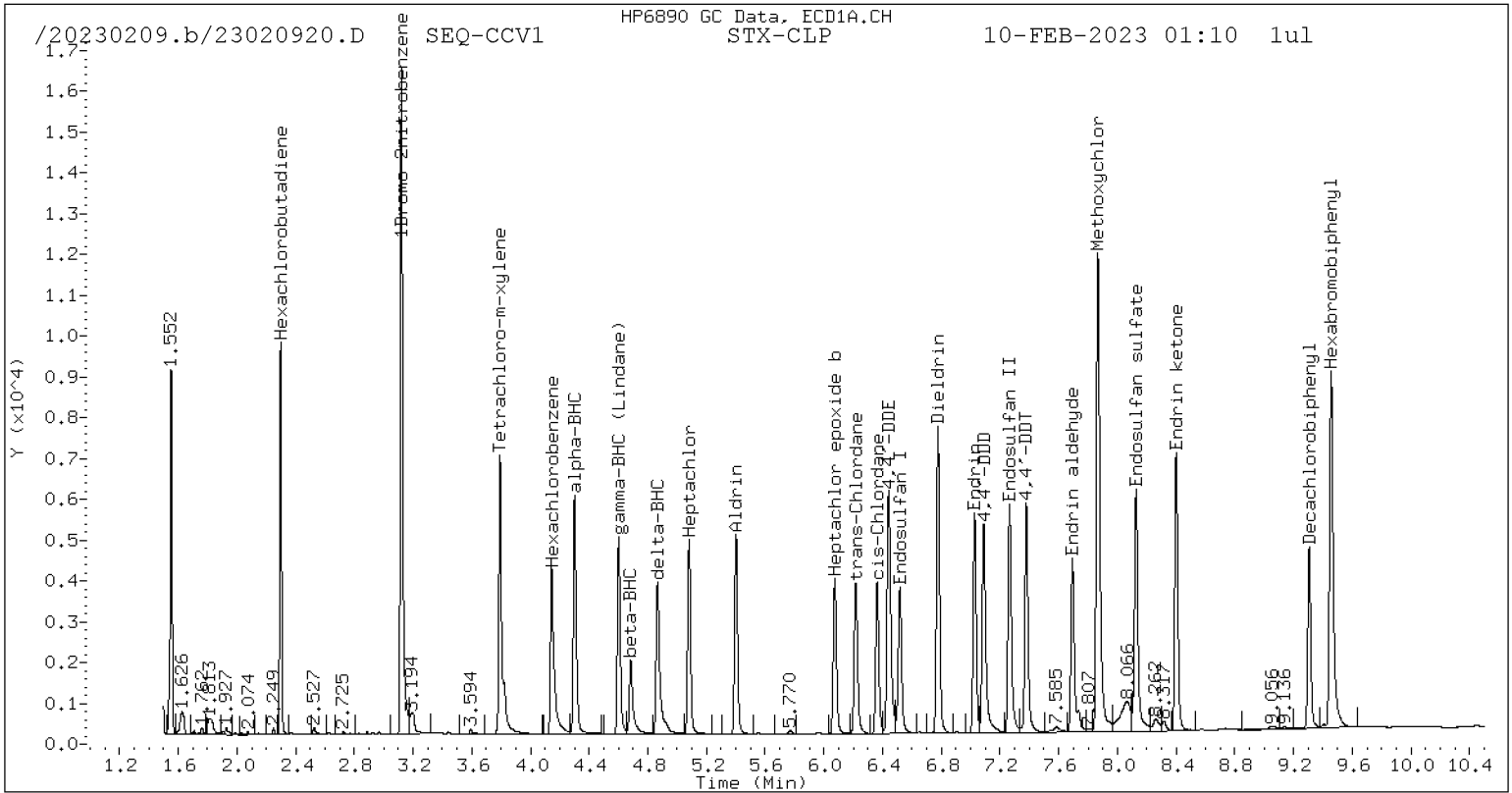
| Standard Cpnd      | Column 2       |             | %D       |
|--------------------|----------------|-------------|----------|
|                    | Standard Area* | Sample Area |          |
| Bromo-Nitrobenzene | 1006482        | 620688      | -38.3    |
| Hexabromobiphenyl  | 769764         | 363336      | -52.8 <- |

\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

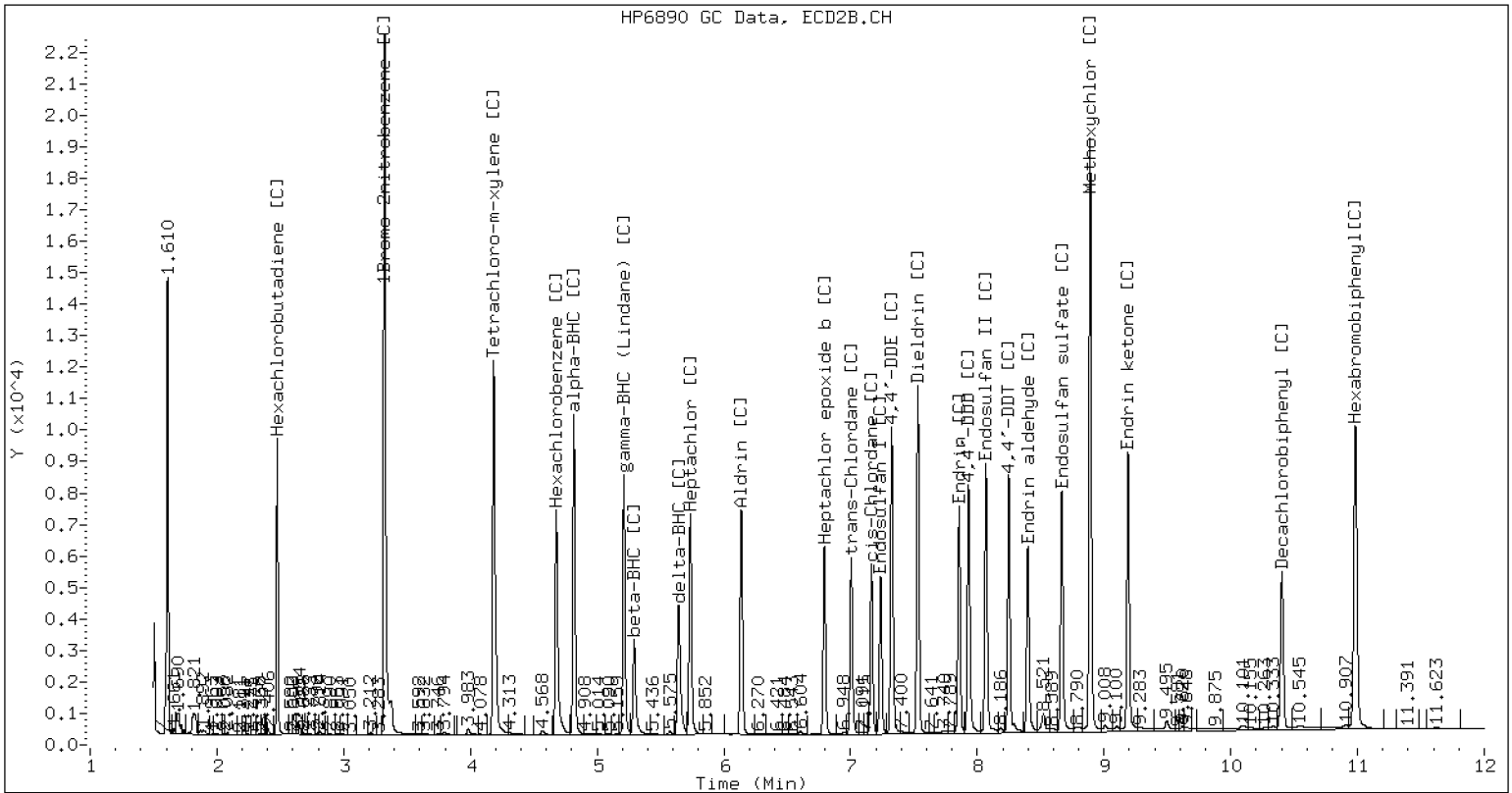
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230209.b/B20230209.b/23020920.D SEQ-CCV1 CLP2



CLP-2 Manual Integration: NO



**CONTINUING CALIBRATION CHECK**  
**EPA 8081B**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD6</u>                      | Calibration:      | <u>FL00041</u>         |
| Lab File ID:   | <u>23020937.D</u>                | Calibration Date: | <u>12/14/2022</u>      |
| Sequence:      | <u>SLB0156</u>                   | Injection Date:   | <u>02/10/23</u>        |
| Lab Sample ID: | <u>SLB0156-CCV2</u>              | Injection Time:   | <u>06:14</u>           |
| Sequence Name: | <u>INDAE</u>                     |                   |                        |

| COMPOUND                   | TYPE | CONC. (ng/mL) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD           | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Hexachlorobenzene          | A    | 20.000        | 22.1 | 1.4298940             | 1.5789030 |     | 10.4         | +/-20 |
| Hexachlorobenzene [2C]     | A    | 20.000        | 21.5 | 1.4591090             | 1.5655310 |     | 7.3          | +/-20 |
| Decachlorobiphenyl         | A    | 40.000        | 40.2 | 0.8105886             | 0.8146360 |     | 0.5          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000        | 39.3 | 0.8841805             | 0.8685354 |     | -1.8         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000        | 38.1 | 1.0879510             | 1.0355220 |     | -4.8         | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000        | 42.0 | 1.1261070             | 1.1825410 |     | 5.0          | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020937.D  
Data file 2: /20230209.b/B20230209.b/23020937.D  
Method: \20230209.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: AA/JR

ARI ID: SEQ-CCV2  
Client ID:  
Injection Date: 10-FEB-2023 06:14  
Report Date: 02/11/2023 06:18  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Response | RT     | CLP2 Col<br>Shift Response | Response | STX-CLP<br>on col | CLP2<br>on col | RPD   | Compound/Flag        |
|-------|-------------------------------|----------------------|--------|----------------------------|----------|-------------------|----------------|-------|----------------------|
| 4.300 | -0.010                        | 341995               | 4.816  | -0.017                     | 535660   | 24.42             | 23.51          | 3.8   | alpha-BHC            |
| 4.682 | -0.011                        | 132500               | 5.291  | -0.018                     | 200138   | 24.57             | 23.11          | 6.2   | beta-BHC             |
| 4.864 | -0.011                        | 290769               | 5.642  | -0.020                     | 270119   | 25.40             | 14.39          | 55.3* | delta-BHC            |
| 4.600 | -0.011                        | 268659               | 5.210  | -0.019                     | 457187   | 22.12             | 23.65          | 6.6   | gamma-BHC (Lindane)  |
| 5.080 | -0.013                        | 274318               | 5.734  | -0.021                     | 409846   | 25.39             | 23.40          | 8.2   | Heptachlor           |
| 5.401 | -0.013                        | 285653               | 6.136  | -0.022                     | 448862   | 23.59             | 22.45          | 5.0   | Aldrin               |
| 6.073 | -0.015                        | 243576               | 6.793  | -0.022                     | 381512   | 23.20             | 23.07          | 0.6   | Heptachlor epoxide b |
| 6.516 | -0.014                        | 242526               | 7.237  | -0.021                     | 324240   | 25.17             | 22.25          | 12.3  | Endosulfan I         |
| 6.777 | -0.014                        | 447796               | 7.530  | -0.021                     | 702282   | 43.26             | 43.61          | 0.8   | Dieldrin             |
| 6.440 | -0.012                        | 450506               | 7.322  | -0.019                     | 664768   | 46.88             | 45.02          | 4.0   | 4,4'-DDE             |
| 7.027 | -0.015                        | 313052               | 7.855  | -0.021                     | 426906   | 34.93             | 35.31          | 1.1   | Endrin               |
| 7.264 | -0.014                        | 382614               | 8.067  | -0.021                     | 560428   | 47.42             | 45.22          | 4.8   | Endosulfan II        |
| 7.087 | -0.012                        | 398319               | 7.929  | -0.020                     | 553296   | 49.33             | 47.05          | 4.7   | 4,4'-DDD             |
| 8.127 | -0.014                        | 402098               | 8.665  | -0.021                     | 507786   | 52.49             | 46.66          | 11.8  | Endosulfan sulfate   |
| 7.378 | -0.013                        | 371942               | 8.247  | -0.020                     | 529722   | 45.59             | 46.67          | 2.3   | 4,4'-DDT             |
| 7.866 | -0.011                        | 819804               | 8.890  | -0.019                     | 1085505  | 226.75            | 216.09         | 4.8   | Methoxychlor         |
| 8.400 | -0.014                        | 434923               | 9.189  | -0.021                     | 580082   | 49.56             | 49.35          | 0.4   | Endrin ketone        |
| 7.693 | -0.014                        | 324471               | 8.398  | -0.021                     | 409721   | 50.42             | 46.87          | 7.3   | Endrin aldehyde      |
| 6.216 | -0.014                        | 252626               | 7.004  | -0.021                     | 371351   | 23.69             | 22.52          | 5.1   | trans-Chlordane      |
| 6.362 | -0.014                        | 230867               | 7.164  | -0.021                     | 326282   | 21.59             | 20.23          | 6.5   | cis-Chlordane        |
| 2.296 | -0.007                        | 302418               | 2.474  | -0.008                     | 297263   | 20.61             | 13.74          | 40.0* | Hexachlorobutadiene  |
| 4.143 | -0.010                        | 287159               | 4.676  | -0.017                     | 444935   | 22.08             | 21.46          | 2.9   | Hexachlorobenzene    |
| 3.791 | -0.010                        | 376666               | 4.182  | -0.014                     | 672173   | 38.07             | 42.00          | 9.8   | Tetrachloro-m-xylene |
| 9.306 | -0.013                        | 278443               | 10.403 | -0.026                     | 369293   | 40.20             | 39.29          | 2.3   | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 672426         | 727490      | 8.2  |
| Hexabromobiphenyl  | 609723         | 683601      | 12.1 |

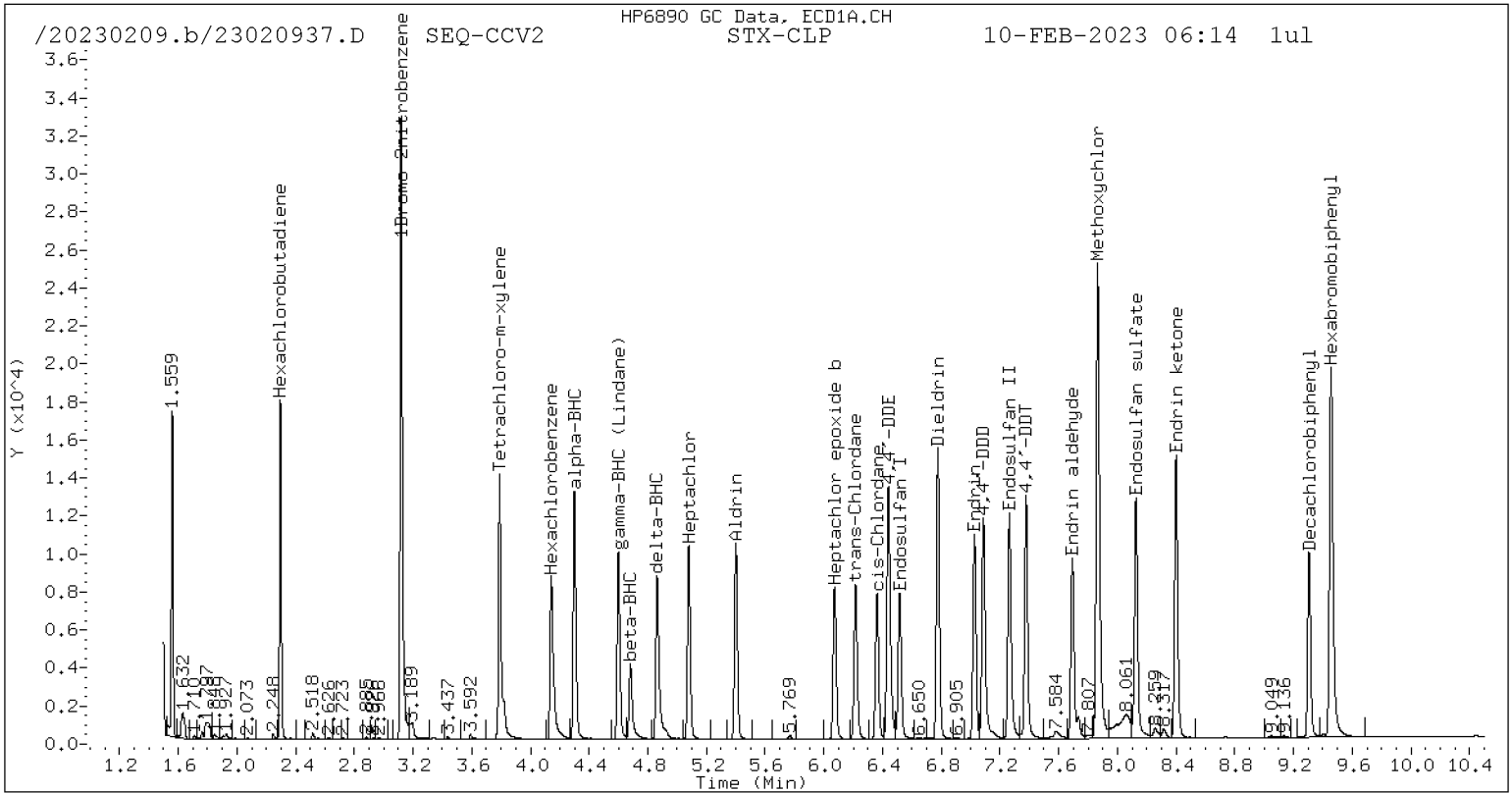
| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1006482        | 1136828     | 13.0 |
| Hexabromobiphenyl  | 769764         | 850381      | 10.5 |

\* Standard Areas taken from Initial Cal Level 5

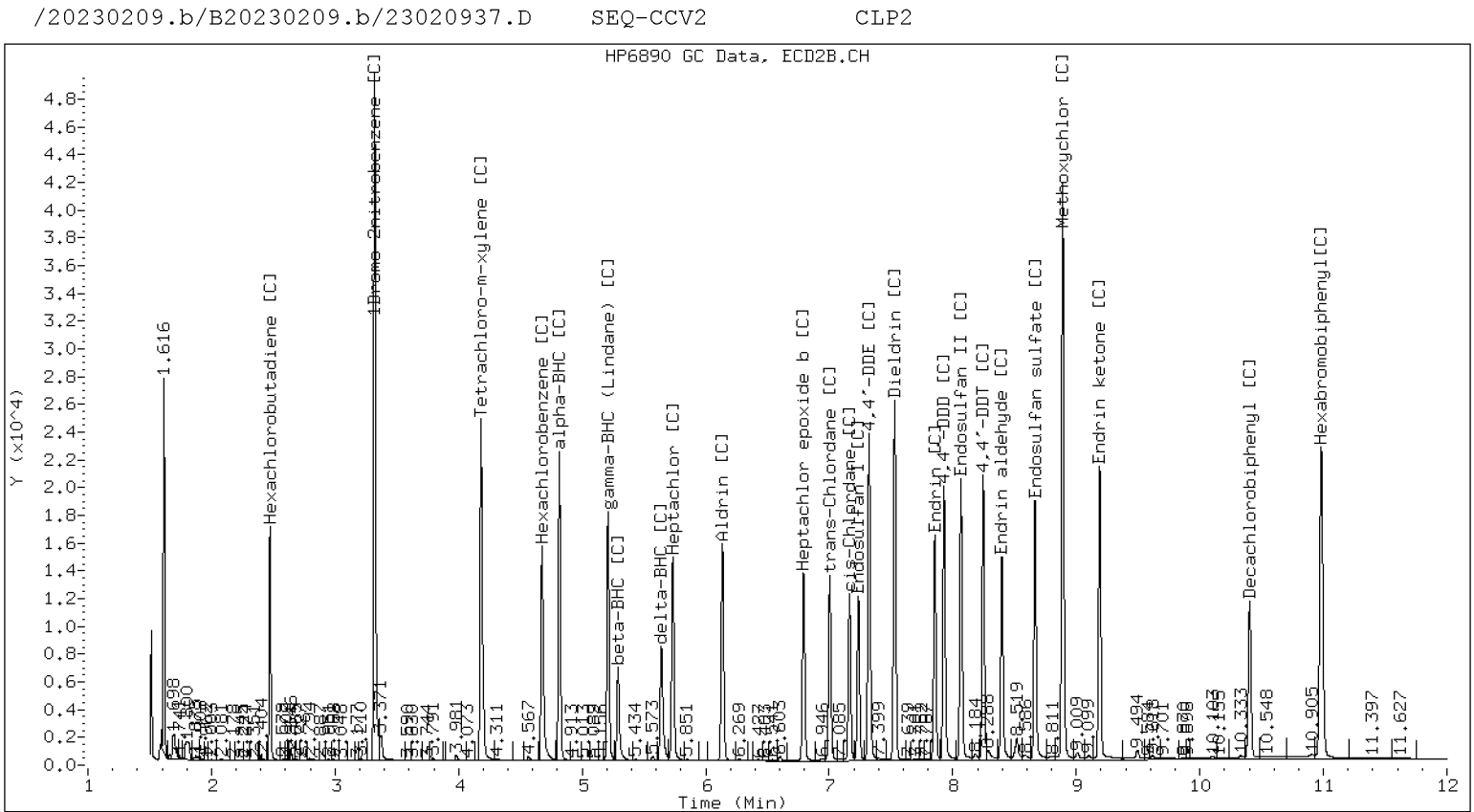
Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO



**CONTINUING CALIBRATION CHECK**  
**EPA 8081B**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD6</u>                      | Calibration:      | <u>FL00041</u>         |
| Lab File ID:   | <u>23020949.D</u>                | Calibration Date: | <u>12/14/2022</u>      |
| Sequence:      | <u>SLB0156</u>                   | Injection Date:   | <u>02/10/23</u>        |
| Lab Sample ID: | <u>SLB0156-CCV3</u>              | Injection Time:   | <u>09:48</u>           |
| Sequence Name: | <u>INDAE</u>                     |                   |                        |

| COMPOUND                   | TYPE | CONC. (ng/mL) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD           | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Hexachlorobenzene          | A    | 20.000        | 22.1 | 1.4298940             | 1.5802990 |     | 10.5         | +/-20 |
| Hexachlorobenzene [2C]     | A    | 20.000        | 21.5 | 1.4591090             | 1.5693060 |     | 7.6          | +/-20 |
| Decachlorobiphenyl         | A    | 40.000        | 40.3 | 0.8105886             | 0.8160173 |     | 0.7          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000        | 39.1 | 0.8841805             | 0.8639957 |     | -2.3         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000        | 38.1 | 1.0879510             | 1.0373350 |     | -4.7         | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000        | 42.0 | 1.1261070             | 1.1819770 |     | 5.0          | +/-20 |

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020949.D  
Data file 2: /20230209.b/B20230209.b/23020949.D  
Method: \20230209.b\PEST.m  
Compound Sublist: INDA.sub  
Instrument, Inj. Vol.: ecd6.i, 1ul  
Operator: AA/JR

ARI ID: SEQ-CCV3  
Client ID:  
Injection Date: 10-FEB-2023 09:48  
Report Date: 02/11/2023 06:18  
Units: ng/mL  
Dilution Factor: 1.000

| RT    | STX-CLP Col<br>Shift Response | CLP2 Col<br>Shift Response | RT     | CLP2 Col<br>Shift Response | STX-CLP<br>on col | CLP2<br>on col | RPD    | Compound/Flag |                      |
|-------|-------------------------------|----------------------------|--------|----------------------------|-------------------|----------------|--------|---------------|----------------------|
| 4.300 | -0.010                        | 348828                     | 4.816  | -0.017                     | 559302            | 24.18          | 23.77  | 1.7           | alpha-BHC            |
| 4.683 | -0.010                        | 136931                     | 5.291  | -0.018                     | 210709            | 24.66          | 23.55  | 4.6           | beta-BHC             |
| 4.865 | -0.011                        | 299584                     | 5.642  | -0.019                     | 281467            | 25.41          | 14.52  | 54.6*         | delta-BHC            |
| 4.601 | -0.011                        | 276190                     | 5.210  | -0.019                     | 472664            | 22.09          | 23.67  | 6.9           | gamma-BHC (Lindane)  |
| 5.080 | -0.012                        | 281975                     | 5.735  | -0.020                     | 428103            | 25.34          | 23.66  | 6.8           | Heptachlor           |
| 5.401 | -0.013                        | 294263                     | 6.137  | -0.021                     | 470710            | 23.60          | 22.79  | 3.5           | Aldrin               |
| 6.074 | -0.014                        | 249611                     | 6.793  | -0.021                     | 384711            | 23.09          | 22.52  | 2.5           | Heptachlor epoxide b |
| 6.517 | -0.014                        | 250059                     | 7.237  | -0.021                     | 324708            | 25.20          | 21.57  | 15.5          | Endosulfan I         |
| 6.777 | -0.014                        | 461028                     | 7.531  | -0.020                     | 701738            | 43.25          | 42.19  | 2.5           | Dieldrin             |
| 6.440 | -0.011                        | 463410                     | 7.323  | -0.019                     | 666767            | 46.82          | 43.71  | 6.9           | 4,4'-DDE             |
| 7.027 | -0.014                        | 308999                     | 7.855  | -0.021                     | 410472            | 33.39          | 33.63  | 0.7           | Endrin               |
| 7.264 | -0.014                        | 393371                     | 8.068  | -0.020                     | 556392            | 47.22          | 44.48  | 6.0           | Endosulfan II        |
| 7.088 | -0.012                        | 408687                     | 7.930  | -0.019                     | 547911            | 49.02          | 46.15  | 6.0           | 4,4'-DDD             |
| 8.127 | -0.013                        | 384692                     | 8.666  | -0.020                     | 503790            | 48.64          | 45.86  | 5.9           | Endosulfan sulfate   |
| 7.378 | -0.013                        | 380801                     | 8.247  | -0.019                     | 528288            | 45.20          | 46.11  | 2.0           | 4,4'-DDT             |
| 7.866 | -0.011                        | 850439                     | 8.891  | -0.018                     | 1101314           | 227.82         | 217.20 | 4.8           | Methoxychlor         |
| 8.401 | -0.013                        | 448760                     | 9.190  | -0.020                     | 574487            | 49.53          | 48.42  | 2.3           | Endrin ketone        |
| 7.693 | -0.014                        | 335271                     | 8.398  | -0.020                     | 410005            | 50.46          | 46.46  | 8.3           | Endrin aldehyde      |
| 6.217 | -0.013                        | 260215                     | 7.005  | -0.020                     | 372921            | 23.70          | 21.89  | 7.9           | trans-Chlordane      |
| 6.362 | -0.013                        | 236516                     | 7.165  | -0.020                     | 328611            | 21.48          | 19.72  | 8.5           | cis-Chlordane        |
| 2.297 | -0.007                        | 312594                     | 2.474  | -0.008                     | 306095            | 20.69          | 13.70  | 40.7*         | Hexachlorobutadiene  |
| 4.144 | -0.009                        | 295988                     | 4.677  | -0.016                     | 460698            | 22.10          | 21.51  | 2.7           | Hexachlorobenzene    |
| 3.791 | -0.009                        | 388583                     | 4.182  | -0.014                     | 693981            | 38.14          | 41.98  | 9.6           | Tetrachloro-m-xylene |
| 9.307 | -0.012                        | 287977                     | 10.403 | -0.026                     | 370814            | 40.27          | 39.09  | 3.0           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits



INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 672426         | 749195      | 11.4 |
| Hexabromobiphenyl  | 609723         | 705811      | 15.8 |

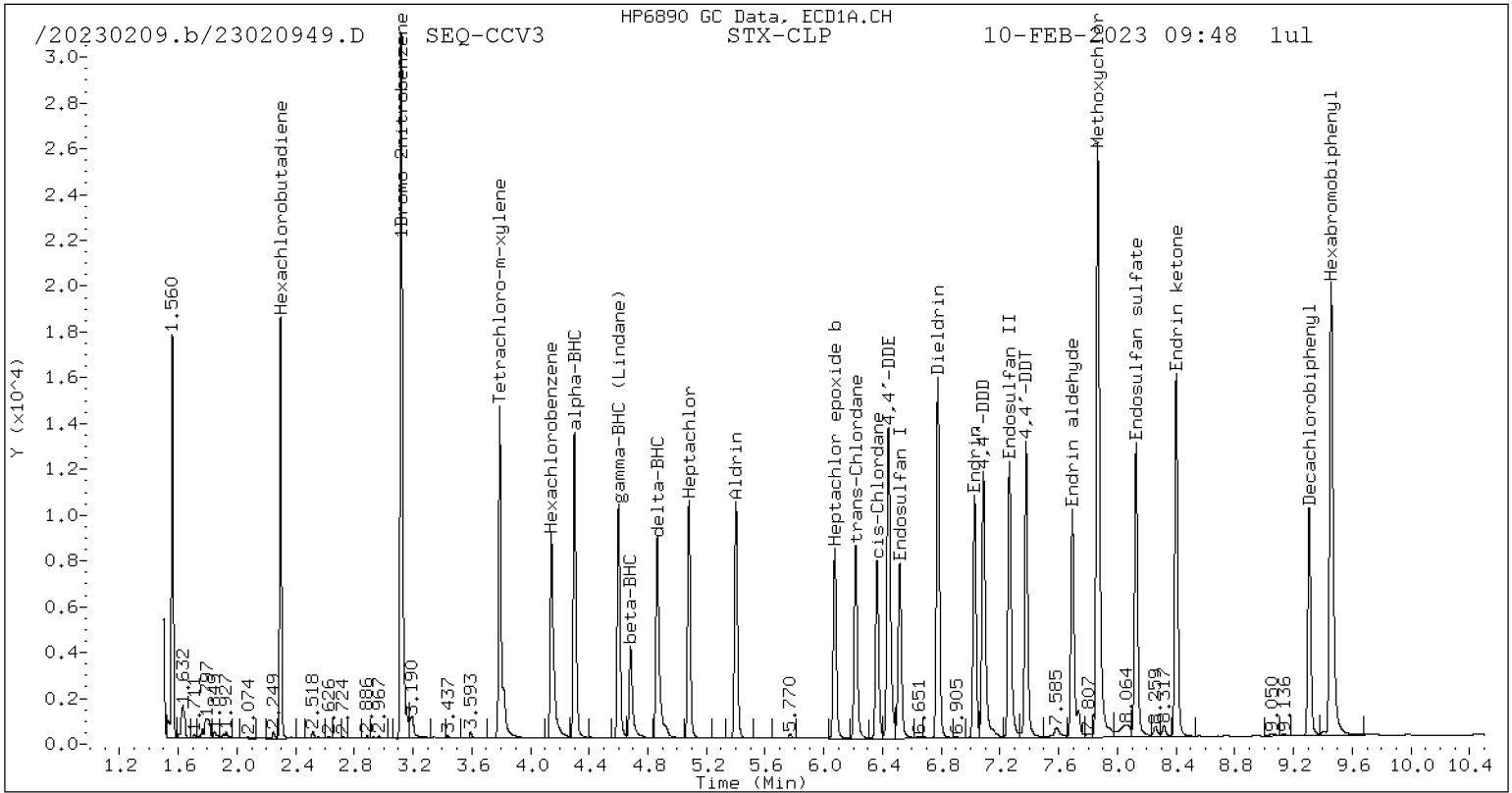
| Standard Cpnd      | Column 2       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 1006482        | 1174272     | 16.7 |
| Hexabromobiphenyl  | 769764         | 858370      | 11.5 |

\* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

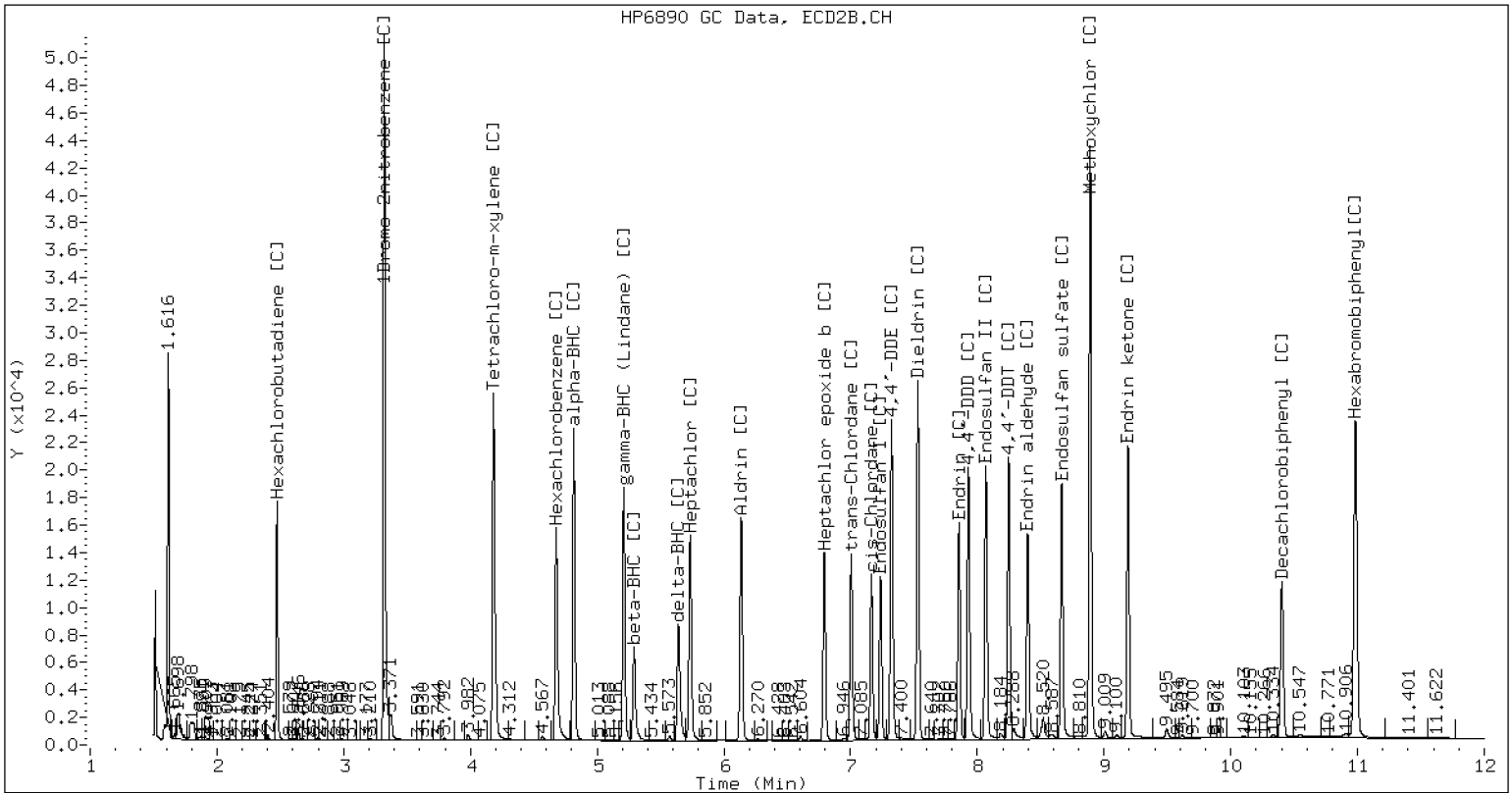
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230209.b/B20230209.b/23020949.D SEQ-CCV3 CLP2



CLP-2 Manual Integration: NO



**PERFORMANCE EVALUATION DATA SHEET**

DS1

**EPA 8081B**

Laboratory: Analytical Resources, LLC

Laboratory ID: SKL0233-PEM1

File ID: 22121404.D

Client: Anchor QEA, LLC

Matrix: Water

Instrument: ECD6

Project: AOC5 MR Phase 1

Analyzed: 12/14/2022

Sequence: SKL0233

SDG: 23A0179

Calibration: FL00041

Column: 1

| PEM COMPOUND    | RT   | Response |
|-----------------|------|----------|
| 4,4'-DDE        | 6.49 | 6258     |
| Endrin          | 7.08 | 745471   |
| 4,4'-DDD        | 7.14 | 15566    |
| Endrin Aldehyde | 7.75 | 21328    |
| 4,4'-DDT        | 7.43 | 629664   |
| Endrin Ketone   | 8.45 | 19276    |

4,4'-DDT %Breakdown (1): 3.3

Endrin %Breakdown (1): 5.2



**PERFORMANCE EVALUATION DATA SHEET**

DS1

**EPA 8081B**

Laboratory: Analytical Resources, LLC

Laboratory ID: SKL0233-PEM1

File ID: 22121404.D

Client: Anchor QEA, LLC

Matrix: Water

Instrument: ECD6

Project: AOC5 MR Phase 1

Analyzed: 12/14/2022

Sequence: SKL0233

SDG: 23A0179

Calibration: FL00041

Column: 2

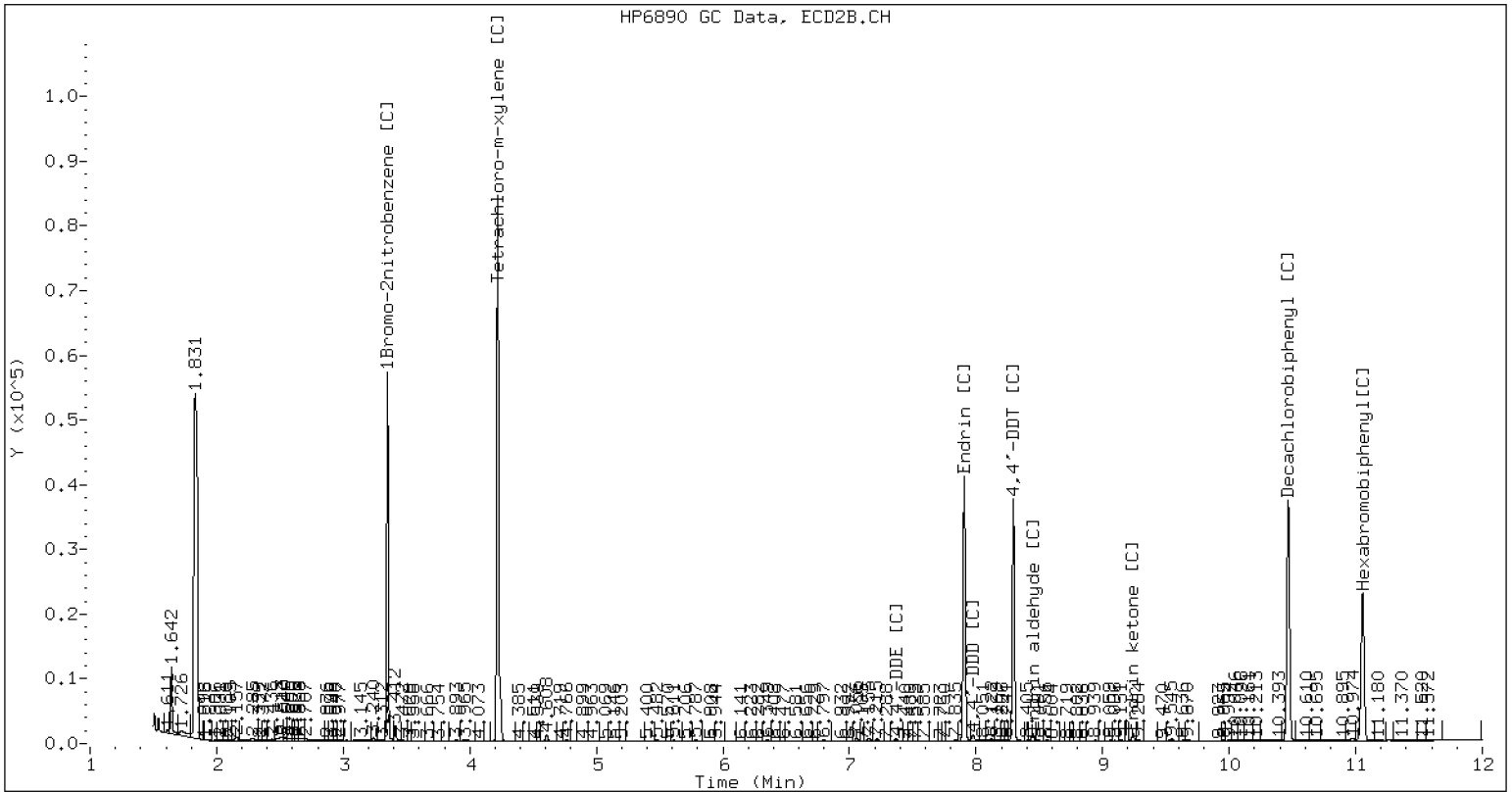
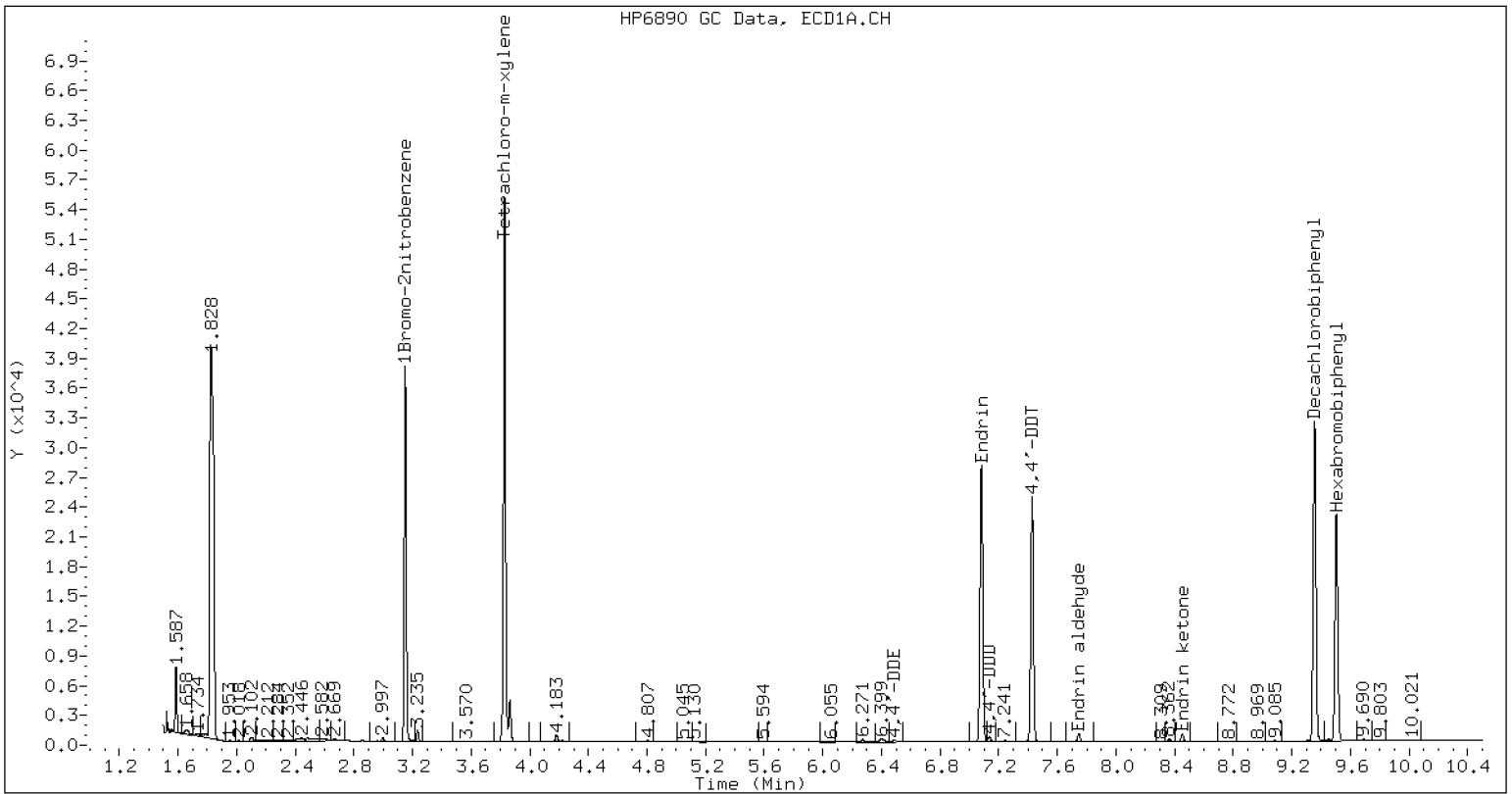
| PEM COMPOUND    | RT   | Response |
|-----------------|------|----------|
| 4,4'-DDE        | 7.37 | 11906    |
| Endrin          | 7.91 | 1029194  |
| 4,4'-DDD        | 7.98 | 32697    |
| Endrin Aldehyde | 8.45 | 31426    |
| 4,4'-DDT        | 8.30 | 890195   |
| Endrin Ketone   | 9.24 | 28268    |

4,4'-DDT %Breakdown (1): 4.8

Endrin %Breakdown (1): 5.5







7E  
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SEQ-PEM1                      InstID,Data File: ecd6.i, 22121404.D  
Analysis Date: 14-DEC-2022 20:20      Init. Calib. Date: 14-DEC-2022

GC Column: STX-CLP1    ID: 0.53(mm)

| COMPOUND             | RT    | AREA    |
|----------------------|-------|---------|
| 1Bromo-2nitrobenzene | 3.151 | 683485  |
| 4,4'-DDE             | 6.490 | 6258    |
| Endrin               | 7.082 | 745471  |
| 4,4'-DDD             | 7.136 | 15566   |
| 4,4'-DDT             | 7.428 | 629664  |
| Endrin ketone        | 8.453 | 19276   |
| Endrin aldehyde      | 7.747 | 21328   |
| Hexabromobiphenyl    | 9.504 | 619012  |
| Tetrachloro-m-xylene | 3.828 | 1161664 |
| Decachlorobiphenyl   | 9.355 | 833312  |

DDT Percent Breakdown = 3.3 %  
 $((6258+15566) * 100)/(6258+15566+629664)$

Endrin Percent Breakdown = 5.2 %  
 $((21328+19276) * 100)/(21328+19276+745471)$

GC Column: STX-CLP1    ID: 0.53(mm)

| COMPOUND           | RT    | AREA   |
|--------------------|-------|--------|
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |



|                    |       |        |
|--------------------|-------|--------|
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |



Dual Column  
ANALYSIS BATCH (SEQUENCE) SUMMARY  
EPA 8081B

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SKL0233

Instrument: ECD6

Calibration: FL00041

| Sample Name     | Lab Sample ID | Column 1 File ID | Column 2 File ID | Matrix | Analysis Date/Time |
|-----------------|---------------|------------------|------------------|--------|--------------------|
| Performance Mix | SKL0233-PEM1  | 22121404.D       | 22121404.D       | NA     | 12/14/22 20:20     |
| Cal Standard    | SKL0233-CAL1  | 22121405.D       | 22121405.D       | NA     | 12/14/22 20:38     |
| Cal Standard    | SKL0233-CAL2  | 22121406.D       | 22121406.D       | NA     | 12/14/22 20:56     |
| Cal Standard    | SKL0233-CAL3  | 22121407.D       | 22121407.D       | NA     | 12/14/22 21:14     |
| Cal Standard    | SKL0233-CAL4  | 22121408.D       | 22121408.D       | NA     | 12/14/22 21:31     |
| Cal Standard    | SKL0233-CAL5  | 22121409.D       | 22121409.D       | NA     | 12/14/22 21:49     |
| Cal Standard    | SKL0233-CAL6  | 22121410.D       | 22121410.D       | NA     | 12/14/22 22:07     |
| Cal Standard    | SKL0233-CAL7  | 22121411.D       | 22121411.D       | NA     | 12/14/22 22:25     |
| Cal Standard    | SKL0233-CAL8  | 22121412.D       | 22121412.D       | NA     | 12/14/22 22:43     |
| Cal Standard    | SKL0233-CAL9  | 22121413.D       | 22121413.D       | NA     | 12/14/22 23:01     |
| Cal Standard    | SKL0233-CALA  | 22121414.D       | 22121414.D       | NA     | 12/14/22 23:19     |
| Cal Standard    | SKL0233-CALB  | 22121415.D       | 22121415.D       | NA     | 12/14/22 23:36     |
| Cal Standard    | SKL0233-CALC  | 22121416.D       | 22121416.D       | NA     | 12/14/22 23:54     |
| Cal Standard    | SKL0233-CALD  | 22121417.D       | 22121417.D       | NA     | 12/15/22 00:12     |
| Cal Standard    | SKL0233-CALE  | 22121418.D       | 22121418.D       | NA     | 12/15/22 00:30     |



ANALYSIS SEQUENCE

SKL0233

Instrument: ECD6  
Calibration ID: FL00041

Element Column ID:

| Lab Number   | Sample Name | Analysis | Container | Order | STD ID  | ISTD ID | Analyzed | Comments |
|--------------|-------------|----------|-----------|-------|---------|---------|----------|----------|
| SKL0233-PEM1 | DS1         | QC       |           | 1     | K007286 | K006953 |          |          |
| SKL0233-CAL1 | INDAA       | QC       |           | 2     | K011594 | K006953 |          |          |
| SKL0233-CAL2 | INDAB       | QC       |           | 3     | K011593 | K006953 |          |          |
| SKL0233-CAL3 | INDAC       | QC       |           | 4     | K011592 | K006953 |          |          |
| SKL0233-CAL4 | INDAD       | QC       |           | 5     | K011591 | K006953 |          |          |
| SKL0233-CAL5 | INDAE       | QC       |           | 6     | K011590 | K006953 |          |          |
| SKL0233-CAL6 | INDAF       | QC       |           | 7     | K011589 | K006953 |          |          |
| SKL0233-CAL7 | INDAG       | QC       |           | 8     | K011463 | K006953 |          |          |
| SKL0233-CAL8 | WNDA        | QC       |           | 9     | K011595 | K006953 |          |          |
| SKL0233-CAL9 | WNDB        | QC       |           | 10    | K007148 | K006953 |          |          |
| SKL0233-CALA | WNDC        | QC       |           | 11    | K007147 | K006953 |          |          |
| SKL0233-CALB | WNDD        | QC       |           | 12    | K007146 | K006953 |          |          |
| SKL0233-CALC | WNDE        | QC       |           | 13    | K007145 | K006953 |          |          |
| SKL0233-CALD | WPDF        | QC       |           | 14    | K007144 | K006953 |          |          |
| SKL0233-CALE | WNDG        | QC       |           | 15    | K007093 | K006953 |          |          |
| SKL0233-CALM | NOS1        | QC       |           | 16    | K007375 | K006953 |          |          |
| SKL0233-CALN | NOS2        | QC       |           | 17    | K007374 | K006953 |          |          |
| SKL0233-CALO | NOS3        | QC       |           | 18    | K007373 | K006953 |          |          |
| SKL0233-CALP | NOS4        | QC       |           | 19    | K007372 | K006953 |          |          |
| SKL0233-CALQ | NOS5        | QC       |           | 20    | K007371 | K006953 |          |          |
| SKL0233-CALR | NOS6        | QC       |           | 21    | K007370 | K006953 |          |          |
| SKL0233-CALS | NOS7        | QC       |           | 22    | K007287 | K006953 |          |          |



ANALYSIS SEQUENCE

SKL0233

Instrument: ECD6  
Calibration ID: FL00041

Element Column ID:

| Lab Number   | Sample Name | Analysis | Container | Order | STD ID  | ISTD ID | Analyzed | Comments |
|--------------|-------------|----------|-----------|-------|---------|---------|----------|----------|
| SKL0233-CALF | TOXAPH1     | QC       |           | 23    | K011601 | K006953 |          |          |
| SKL0233-CALG | TOXAPH2     | QC       |           | 24    | K011600 | K006953 |          |          |
| SKL0233-CALH | TOXAPH3     | QC       |           | 25    | K011599 | K006953 |          |          |
| SKL0233-CALI | TOXAPH4     | QC       |           | 26    | K011598 | K006953 |          |          |
| SKL0233-CALJ | TOXAPH5     | QC       |           | 27    | K011597 | K006953 |          |          |
| SKL0233-CALK | TOXAPH6     | QC       |           | 28    | K011596 | K006953 |          |          |
| SKL0233-CALL | TOXAPH7     | QC       |           | 29    | K008546 | K006953 |          |          |

## GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

|    | Inject      | Date/Time | Filename   | DF | LabID        | ClientID |
|----|-------------|-----------|------------|----|--------------|----------|
| 1  | 14-DEC-2022 | 19:27     | 22121401.D | 1  | RINSE        |          |
| 2  | 14-DEC-2022 | 19:44     | 22121402.D | 1  | RINSE        |          |
| 3  | 14-DEC-2022 | 20:02     | 22121403.D | 1  | SEQ-IBL1     |          |
| 4  | 14-DEC-2022 | 20:20     | 22121404.D | 1  | SEQ-PEM1     |          |
| 5  | 14-DEC-2022 | 20:38     | 22121405.D | 1  | SEQ-CAL1     |          |
| 6  | 14-DEC-2022 | 20:56     | 22121406.D | 1  | SEQ-CAL2     |          |
| 7  | 14-DEC-2022 | 21:14     | 22121407.D | 1  | SEQ-CAL3     |          |
| 8  | 14-DEC-2022 | 21:31     | 22121408.D | 1  | SEQ-CAL4     |          |
| 9  | 14-DEC-2022 | 21:49     | 22121409.D | 1  | SEQ-CAL5     |          |
| 10 | 14-DEC-2022 | 22:07     | 22121410.D | 1  | SEQ-CAL6     |          |
| 11 | 14-DEC-2022 | 22:25     | 22121411.D | 1  | SEQ-CAL7     |          |
| 12 | 14-DEC-2022 | 22:43     | 22121412.D | 1  | SEQ-CAL8     |          |
| 13 | 14-DEC-2022 | 23:01     | 22121413.D | 1  | SEQ-CAL9     |          |
| 14 | 14-DEC-2022 | 23:19     | 22121414.D | 1  | SEQ-CALA     |          |
| 15 | 14-DEC-2022 | 23:36     | 22121415.D | 1  | SEQ-CALB     |          |
| 16 | 14-DEC-2022 | 23:54     | 22121416.D | 1  | SEQ-CALC     |          |
| 17 | 15-DEC-2022 | 00:12     | 22121417.D | 1  | SEQ-CALD     |          |
| 18 | 15-DEC-2022 | 00:30     | 22121418.D | 1  | SEQ-CALE     |          |
| 19 | 15-DEC-2022 | 00:48     | 22121419.D | 1  | SEQ-SCV1     |          |
| 20 | 15-DEC-2022 | 01:06     | 22121420.D | 1  | SEQ-SCV2     |          |
| 21 | 15-DEC-2022 | 01:24     | 22121421.D | 1  | SEQ-CAL1A    |          |
| 22 | 15-DEC-2022 | 01:42     | 22121422.D | 1  | SEQ-CAL2A    |          |
| 23 | 15-DEC-2022 | 01:59     | 22121423.D | 1  | SEQ-CAL3A    |          |
| 24 | 15-DEC-2022 | 02:17     | 22121424.D | 1  | SEQ-CAL4A    |          |
| 25 | 15-DEC-2022 | 02:35     | 22121425.D | 1  | SEQ-CAL5A    |          |
| 26 | 15-DEC-2022 | 02:53     | 22121426.D | 1  | SEQ-CAL6A    |          |
| 27 | 15-DEC-2022 | 03:11     | 22121427.D | 1  | SEQ-CAL7A    |          |
| 28 | 15-DEC-2022 | 03:29     | 22121428.D | 1  | SEQ-CAL8A    |          |
| 29 | 15-DEC-2022 | 03:46     | 22121429.D | 1  | SEQ-CAL9A    |          |
| 30 | 15-DEC-2022 | 04:04     | 22121430.D | 1  | SEQ-CALAA    |          |
| 31 | 15-DEC-2022 | 04:22     | 22121431.D | 1  | SEQ-CALAB    |          |
| 32 | 15-DEC-2022 | 04:40     | 22121432.D | 1  | SEQ-CALAC    |          |
| 33 | 15-DEC-2022 | 04:58     | 22121433.D | 1  | SEQ-CALAD    |          |
| 34 | 15-DEC-2022 | 05:16     | 22121434.D | 1  | SEQ-CALAE    |          |
| 35 | 15-DEC-2022 | 05:33     | 22121435.D | 1  | SEQ-PEM2     |          |
| 36 | 15-DEC-2022 | 05:51     | 22121436.D | 1  | SEQ-ICV1     |          |
| 37 | 15-DEC-2022 | 06:09     | 22121437.D | 1  | SEQ-ICV2     |          |
| 38 | 15-DEC-2022 | 06:27     | 22121438.D | 1  | SEQ-ICV3     |          |
| 39 | 15-DEC-2022 | 06:45     | 22121439.D | 1  | SEQ-ICV4     |          |
| 40 | 15-DEC-2022 | 07:03     | 22121440.D | 1  | BKK0688-BLK1 |          |
| 41 | 15-DEC-2022 | 07:21     | 22121441.D | 1  | BKK0688-BS1  |          |
| 42 | 15-DEC-2022 | 07:39     | 22121442.D | 1  | BKK0688-BS2  |          |
| 43 | 15-DEC-2022 | 07:57     | 22121443.D | 1  | BKK0688-BS3  |          |
| 44 | 15-DEC-2022 | 08:15     | 22121444.D | 1  | BKK0688-BSD1 |          |
| 45 | 15-DEC-2022 | 08:32     | 22121445.D | 1  | BKK0142-BLK1 |          |
| 46 | 15-DEC-2022 | 08:50     | 22121446.D | 1  | BKK0142-BS1  |          |
| 47 | 15-DEC-2022 | 09:08     | 22121447.D | 1  | BKK0142-BS2  |          |
| 48 | 15-DEC-2022 | 09:26     | 22121448.D | 1  | BKK0142-BSD1 |          |
| 49 | 15-DEC-2022 | 09:44     | 22121449.D | 1  | BKK0142-MS1  |          |
| 50 | 15-DEC-2022 | 10:02     | 22121450.D | 1  | BKK0142-MSD1 |          |

|    | Inject Date/Time  | Filename   | DF | LabID         | ClientID |
|----|-------------------|------------|----|---------------|----------|
| 51 | 15-DEC-2022 10:20 | 22121451.D | 1  | 22J0513-01    |          |
| 52 | 15-DEC-2022 10:38 | 22121452.D | 1  | 22J0513-04    |          |
| 53 | 15-DEC-2022 10:55 | 22121453.D | 1  | 22J0535-01    |          |
| 54 | 15-DEC-2022 11:13 | 22121454.D | 1  | 22K0429-01    |          |
| 55 | 15-DEC-2022 11:31 | 22121455.D | 1  | 22K0429-02    |          |
| 56 | 15-DEC-2022 11:49 | 22121456.D | 1  | 22K0429-03    |          |
| 57 | 15-DEC-2022 12:07 | 22121457.D | 1  | SEQ-PEM3      |          |
| 58 | 15-DEC-2022 12:25 | 22121458.D | 1  | SEQ-CCV1      |          |
| 59 | 15-DEC-2022 12:43 | 22121459.D | 1  | SEQ-CCV2      |          |
| 60 | 15-DEC-2022 13:01 | 22121460.D | 1  | SEQ-CCV3      |          |
| 61 | 15-DEC-2022 13:19 | 22121461.D | 1  | SEQ-CCV4      |          |
| 62 | 15-DEC-2022 13:36 | 22121462.D | 1  | BKK0380-BLK1  |          |
| 63 | 15-DEC-2022 13:54 | 22121463.D | 1  | BKK0380-BS1   |          |
| 64 | 15-DEC-2022 14:12 | 22121464.D | 1  | BKK0380-BSD1  |          |
| 65 | 15-DEC-2022 14:30 | 22121465.D | 1  | 22K0157-01    |          |
| 66 | 15-DEC-2022 14:48 | 22121466.D | 1  | 22K0230-01    |          |
| 67 | 15-DEC-2022 15:06 | 22121467.D | 1  | 22K0231-01    |          |
| 68 | 15-DEC-2022 15:24 | 22121468.D | 1  | BKK0382-BLK1  |          |
| 69 | 15-DEC-2022 15:42 | 22121469.D | 1  | BKK0382-BS1   |          |
| 70 | 15-DEC-2022 16:00 | 22121470.D | 1  | BKK0382-BS2   |          |
| 71 | 15-DEC-2022 16:18 | 22121471.D | 1  | BKK0382-BSD1  |          |
| 72 | 15-DEC-2022 16:35 | 22121472.D | 1  | 22K0075-01    |          |
| 73 | 15-DEC-2022 16:53 | 22121473.D | 1  | SEQ-PEM4      |          |
| 74 | 15-DEC-2022 17:11 | 22121474.D | 1  | SEQ-CCV5      |          |
| 75 | 15-DEC-2022 17:29 | 22121475.D | 1  | SEQ-CCV6      |          |
| 76 | 15-DEC-2022 17:47 | 22121476.D | 1  | SEQ-CCV7      |          |
| 77 | 15-DEC-2022 18:05 | 22121477.D | 1  | SEQ-CCV8      |          |
| 78 | 15-DEC-2022 18:23 | 22121478.D | 1  | BKK0537-BLK1  |          |
| 79 | 15-DEC-2022 18:40 | 22121479.D | 1  | BKK0537-BS1   |          |
| 80 | 15-DEC-2022 18:58 | 22121480.D | 1  | BKK0537-BS2   |          |
| 81 | 15-DEC-2022 19:16 | 22121481.D | 1  | 22K0194-01    |          |
| 82 | 15-DEC-2022 19:34 | 22121482.D | 1  | 22K0194-01RE1 | 10       |
| 83 | 15-DEC-2022 19:52 | 22121483.D | 1  | SEQ-PEM5      |          |
| 84 | 15-DEC-2022 20:09 | 22121484.D | 1  | SEQ-CCV9      |          |
| 85 | 15-DEC-2022 20:27 | 22121485.D | 1  | SEQ-CCVA      |          |
| 86 | 15-DEC-2022 20:45 | 22121486.D | 1  | SEQ-CCVB      |          |
| 87 | 15-DEC-2022 21:03 | 22121487.D | 1  | SEQ-CCVC      |          |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

ARI Job No.: RINS Method: PEST.m Instrument: ecd6.i Date: 14-DEC-2022

| Time | Filename   | LabID    | ClientId | DF | Manually Integrated Compounds |
|------|------------|----------|----------|----|-------------------------------|
| 1927 | 22121401.D | RINSE    |          | 1  | NO MANUAL INTEGRATION         |
| 1944 | 22121402.D | RINSE    |          | 1  | NO MANUAL INTEGRATION         |
| 2002 | 22121403.D | SEQ-IBL1 |          | 1  | NO MANUAL INTEGRATION         |
| 2020 | 22121404.D | SEQ-PEM1 |          | 1  | NO MANUAL INTEGRATION         |
| 2038 | 22121405.D | SEQ-CAL1 |          | 1  | NO MANUAL INTEGRATION         |
| 2056 | 22121406.D | SEQ-CAL2 |          | 1  | NO MANUAL INTEGRATION         |
| 2114 | 22121407.D | SEQ-CAL3 |          | 1  | NO MANUAL INTEGRATION         |
| 2131 | 22121408.D | SEQ-CAL4 |          | 1  | NO MANUAL INTEGRATION         |
| 2149 | 22121409.D | SEQ-CAL5 |          | 1  | NO MANUAL INTEGRATION         |
| 2207 | 22121410.D | SEQ-CAL6 |          | 1  | NO MANUAL INTEGRATION         |
| 2225 | 22121411.D | SEQ-CAL7 |          | 1  | NO MANUAL INTEGRATION         |
| 2243 | 22121412.D | SEQ-CAL8 |          | 1  | NO MANUAL INTEGRATION         |
| 2301 | 22121413.D | SEQ-CAL9 |          | 1  | NO MANUAL INTEGRATION         |
| 2319 | 22121414.D | SEQ-CALA |          | 1  | NO MANUAL INTEGRATION         |
| 2336 | 22121415.D | SEQ-CALB |          | 1  | NO MANUAL INTEGRATION         |
| 2354 | 22121416.D | SEQ-CALC |          | 1  | NO MANUAL INTEGRATION         |
| 0012 | 22121417.D | SEQ-CALD |          | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

| Time | Filename   | LabID     | ClientId | DF | Manually Integrated Compounds |
|------|------------|-----------|----------|----|-------------------------------|
| 0030 | 22121418.D | SEQ-CALE  | 1        |    | NO MANUAL INTEGRATION         |
| 0048 | 22121419.D | SEQ-SCV1  | 1        |    | NO MANUAL INTEGRATION         |
| 0106 | 22121420.D | SEQ-SCV2  | 1        |    | NO MANUAL INTEGRATION         |
| 0124 | 22121421.D | SEQ-CAL1A | 1        |    | NO MANUAL INTEGRATION         |
| 0142 | 22121422.D | SEQ-CAL2A | 1        |    | NO MANUAL INTEGRATION         |
| 0159 | 22121423.D | SEQ-CAL3A | 1        |    | NO MANUAL INTEGRATION         |
| 0217 | 22121424.D | SEQ-CAL4A | 1        |    | NO MANUAL INTEGRATION         |
| 0235 | 22121425.D | SEQ-CAL5A | 1        |    | NO MANUAL INTEGRATION         |
| 0253 | 22121426.D | SEQ-CAL6A | 1        |    | NO MANUAL INTEGRATION         |
| 0311 | 22121427.D | SEQ-CAL7A | 1        |    | NO MANUAL INTEGRATION         |
| 0329 | 22121428.D | SEQ-CAL8A | 1        |    | NO MANUAL INTEGRATION         |
| 0346 | 22121429.D | SEQ-CAL9A | 1        |    | NO MANUAL INTEGRATION         |
| 0404 | 22121430.D | SEQ-CALAA | 1        |    | NO MANUAL INTEGRATION         |
| 0422 | 22121431.D | SEQ-CALAB | 1        |    | NO MANUAL INTEGRATION         |
| 0440 | 22121432.D | SEQ-CALAC | 1        |    | NO MANUAL INTEGRATION         |
| 0458 | 22121433.D | SEQ-CALAD | 1        |    | NO MANUAL INTEGRATION         |
| 0516 | 22121434.D | SEQ-CALAE | 1        |    | NO MANUAL INTEGRATION         |
| 0533 | 22121435.D | SEQ-PEM2  | 1        |    | NO MANUAL INTEGRATION         |



MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

| Time | Filename   | LabID        | ClientId | DF | Manually Integrated Compounds |
|------|------------|--------------|----------|----|-------------------------------|
| 0551 | 22121436.D | SEQ-ICV1     | 1        |    | NO MANUAL INTEGRATION         |
| 0609 | 22121437.D | SEQ-ICV2     | 1        |    | NO MANUAL INTEGRATION         |
| 0627 | 22121438.D | SEQ-ICV3     | 1        |    | NO MANUAL INTEGRATION         |
| 0645 | 22121439.D | SEQ-ICV4     | 1        |    | NO MANUAL INTEGRATION         |
| 0703 | 22121440.D | BKK0688-BLK1 | 1        |    | NO MANUAL INTEGRATION         |
| 0721 | 22121441.D | BKK0688-BS1  | 1        |    | NO MANUAL INTEGRATION         |
| 0739 | 22121442.D | BKK0688-BS2  | 1        |    | NO MANUAL INTEGRATION         |
| 0757 | 22121443.D | BKK0688-BS3  | 1        |    | NO MANUAL INTEGRATION         |
| 0815 | 22121444.D | BKK0688-BSD1 | 1        |    | NO MANUAL INTEGRATION         |
| 0832 | 22121445.D | BKK0142-BLK1 | 1        |    | NO MANUAL INTEGRATION         |
| 0850 | 22121446.D | BKK0142-BS1  | 1        |    | NO MANUAL INTEGRATION         |
| 0908 | 22121447.D | BKK0142-BS2  | 1        |    | NO MANUAL INTEGRATION         |
| 0926 | 22121448.D | BKK0142-BSD1 | 1        |    | NO MANUAL INTEGRATION         |
| 0944 | 22121449.D | BKK0142-MS1  | 1        |    | NO MANUAL INTEGRATION         |
| 1002 | 22121450.D | BKK0142-MSD1 | 1        |    | NO MANUAL INTEGRATION         |
| 1020 | 22121451.D | 22J0513-01   | 1        |    | NO MANUAL INTEGRATION         |
| 1038 | 22121452.D | 22J0513-04   | 1        |    | NO MANUAL INTEGRATION         |
| 1055 | 22121453.D | 22J0535-01   | 1        |    | trans-Chlordane,              |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

| Time | Filename   | LabID        | ClientId | DF | Manually Integrated Compounds |
|------|------------|--------------|----------|----|-------------------------------|
| 1113 | 22121454.D | 22K0429-01   | 1        |    | Heptachlor epoxide b,         |
| 1131 | 22121455.D | 22K0429-02   | 1        |    | Heptachlor epoxide b,         |
| 1149 | 22121456.D | 22K0429-03   | 1        |    | Hexachlorobenzene,            |
| 1207 | 22121457.D | SEQ-PEM3     | 1        |    | NO MANUAL INTEGRATION         |
| 1225 | 22121458.D | SEQ-CCV1     | 1        |    | NO MANUAL INTEGRATION         |
| 1243 | 22121459.D | SEQ-CCV2     | 1        |    | NO MANUAL INTEGRATION         |
| 1301 | 22121460.D | SEQ-CCV3     | 1        |    | NO MANUAL INTEGRATION         |
| 1319 | 22121461.D | SEQ-CCV4     | 1        |    | NO MANUAL INTEGRATION         |
| 1336 | 22121462.D | BKK0380-BLK1 | 1        |    | NO MANUAL INTEGRATION         |
| 1354 | 22121463.D | BKK0380-BS1  | 1        |    | NO MANUAL INTEGRATION         |
| 1412 | 22121464.D | BKK0380-BSD1 | 1        |    | NO MANUAL INTEGRATION         |
| 1430 | 22121465.D | 22K0157-01   | 1        |    | NO MANUAL INTEGRATION         |
| 1448 | 22121466.D | 22K0230-01   | 1        |    | NO MANUAL INTEGRATION         |
| 1506 | 22121467.D | 22K0231-01   | 1        |    | NO MANUAL INTEGRATION         |
| 1524 | 22121468.D | BKK0382-BLK1 | 1        |    | NO MANUAL INTEGRATION         |
| 1542 | 22121469.D | BKK0382-BS1  | 1        |    | NO MANUAL INTEGRATION         |
| 1600 | 22121470.D | BKK0382-BS2  | 1        |    | NO MANUAL INTEGRATION         |
| 1618 | 22121471.D | BKK0382-BSD1 | 1        |    | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

| Time | Filename   | LabID            | ClientId | DF | Manually Integrated Compounds |
|------|------------|------------------|----------|----|-------------------------------|
| 1635 | 22121472.D | 22K0075-01       |          | 1  | NO MANUAL INTEGRATION         |
| 1653 | 22121473.D | SEQ-PEM4         |          | 1  | NO MANUAL INTEGRATION         |
| 1711 | 22121474.D | SEQ-CCV5         |          | 1  | NO MANUAL INTEGRATION         |
| 1729 | 22121475.D | SEQ-CCV6         |          | 1  | NO MANUAL INTEGRATION         |
| 1747 | 22121476.D | SEQ-CCV7         |          | 1  | NO MANUAL INTEGRATION         |
| 1805 | 22121477.D | SEQ-CCV8         |          | 1  | NO MANUAL INTEGRATION         |
| 1823 | 22121478.D | BKK0537-BLK1     |          | 1  | NO MANUAL INTEGRATION         |
| 1840 | 22121479.D | BKK0537-BS1      |          | 1  | NO MANUAL INTEGRATION         |
| 1858 | 22121480.D | BKK0537-BS2      |          | 1  | NO MANUAL INTEGRATION         |
| 1916 | 22121481.D | 22K0194-01       |          | 1  | NO MANUAL INTEGRATION         |
| 1934 | 22121482.D | 22K0194-01RE1 10 |          | 1  | NO MANUAL INTEGRATION         |
| 1952 | 22121483.D | SEQ-PEM5         |          | 1  | NO MANUAL INTEGRATION         |
| 2009 | 22121484.D | SEQ-CCV9         |          | 1  | NO MANUAL INTEGRATION         |
| 2027 | 22121485.D | SEQ-CCVA         |          | 1  | NO MANUAL INTEGRATION         |
| 2045 | 22121486.D | SEQ-CCVB         |          | 1  | NO MANUAL INTEGRATION         |
| 2103 | 22121487.D | SEQ-CCVC         |          | 1  | NO MANUAL INTEGRATION         |
| 1927 | 22121401.D | RINSE            |          | 1  | NO MANUAL INTEGRATION         |
| 1944 | 22121402.D | RINSE            |          | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

| Time | Filename   | LabID    | ClientId | DF | Manually Integrated Compounds |
|------|------------|----------|----------|----|-------------------------------|
| 2002 | 22121403.D | SEQ-IBL1 | 1        |    | NO MANUAL INTEGRATION         |
| 2020 | 22121404.D | SEQ-PEM1 | 1        |    | NO MANUAL INTEGRATION         |
| 2038 | 22121405.D | SEQ-CAL1 | 1        |    | NO MANUAL INTEGRATION         |
| 2056 | 22121406.D | SEQ-CAL2 | 1        |    | NO MANUAL INTEGRATION         |
| 2114 | 22121407.D | SEQ-CAL3 | 1        |    | NO MANUAL INTEGRATION         |
| 2131 | 22121408.D | SEQ-CAL4 | 1        |    | NO MANUAL INTEGRATION         |
| 2149 | 22121409.D | SEQ-CAL5 | 1        |    | NO MANUAL INTEGRATION         |
| 2207 | 22121410.D | SEQ-CAL6 | 1        |    | NO MANUAL INTEGRATION         |
| 2225 | 22121411.D | SEQ-CAL7 | 1        |    | NO MANUAL INTEGRATION         |
| 2243 | 22121412.D | SEQ-CAL8 | 1        |    | NO MANUAL INTEGRATION         |
| 2301 | 22121413.D | SEQ-CAL9 | 1        |    | NO MANUAL INTEGRATION         |
| 2319 | 22121414.D | SEQ-CALA | 1        |    | NO MANUAL INTEGRATION         |
| 2336 | 22121415.D | SEQ-CALB | 1        |    | NO MANUAL INTEGRATION         |
| 2354 | 22121416.D | SEQ-CALC | 1        |    | NO MANUAL INTEGRATION         |
| 0012 | 22121417.D | SEQ-CALD | 1        |    | NO MANUAL INTEGRATION         |
| 0030 | 22121418.D | SEQ-CALE | 1        |    | NO MANUAL INTEGRATION         |
| 0048 | 22121419.D | SEQ-SCV1 | 1        |    | NO MANUAL INTEGRATION         |
| 0106 | 22121420.D | SEQ-SCV2 | 1        |    | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

| Time | Filename   | LabID     | ClientId | DF | Manually Integrated Compounds |
|------|------------|-----------|----------|----|-------------------------------|
| 0124 | 22121421.D | SEQ-CAL1A | 1        |    | NO MANUAL INTEGRATION         |
| 0142 | 22121422.D | SEQ-CAL2A | 1        |    | NO MANUAL INTEGRATION         |
| 0159 | 22121423.D | SEQ-CAL3A | 1        |    | NO MANUAL INTEGRATION         |
| 0217 | 22121424.D | SEQ-CAL4A | 1        |    | NO MANUAL INTEGRATION         |
| 0235 | 22121425.D | SEQ-CAL5A | 1        |    | NO MANUAL INTEGRATION         |
| 0253 | 22121426.D | SEQ-CAL6A | 1        |    | NO MANUAL INTEGRATION         |
| 0311 | 22121427.D | SEQ-CAL7A | 1        |    | NO MANUAL INTEGRATION         |
| 0329 | 22121428.D | SEQ-CAL8A | 1        |    | NO MANUAL INTEGRATION         |
| 0346 | 22121429.D | SEQ-CAL9A | 1        |    | NO MANUAL INTEGRATION         |
| 0404 | 22121430.D | SEQ-CALAA | 1        |    | NO MANUAL INTEGRATION         |
| 0422 | 22121431.D | SEQ-CALAB | 1        |    | NO MANUAL INTEGRATION         |
| 0440 | 22121432.D | SEQ-CALAC | 1        |    | NO MANUAL INTEGRATION         |
| 0458 | 22121433.D | SEQ-CALAD | 1        |    | NO MANUAL INTEGRATION         |
| 0516 | 22121434.D | SEQ-CALAE | 1        |    | NO MANUAL INTEGRATION         |
| 0533 | 22121435.D | SEQ-PEM2  | 1        |    | NO MANUAL INTEGRATION         |
| 0551 | 22121436.D | SEQ-ICV1  | 1        |    | NO MANUAL INTEGRATION         |
| 0609 | 22121437.D | SEQ-ICV2  | 1        |    | NO MANUAL INTEGRATION         |
| 0627 | 22121438.D | SEQ-ICV3  | 1        |    | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

| Time | Filename   | LabID        | ClientId | DF | Manually Integrated Compounds                              |
|------|------------|--------------|----------|----|--|
| 0645 | 22121439.D | SEQ-ICV4     | 1        |    | NO MANUAL INTEGRATION                                      |
| 0703 | 22121440.D | BKK0688-BLK1 | 1        |    | NO MANUAL INTEGRATION                                      |
| 0721 | 22121441.D | BKK0688-BS1  | 1        |    | NO MANUAL INTEGRATION                                      |
| 0739 | 22121442.D | BKK0688-BS2  | 1        |    | NO MANUAL INTEGRATION                                      |
| 0757 | 22121443.D | BKK0688-BS3  | 1        |    | NO MANUAL INTEGRATION                                      |
| 0815 | 22121444.D | BKK0688-BSD1 | 1        |    | NO MANUAL INTEGRATION                                      |
| 0832 | 22121445.D | BKK0142-BLK1 | 1        |    | NO MANUAL INTEGRATION                                      |
| 0850 | 22121446.D | BKK0142-BS1  | 1        |    | NO MANUAL INTEGRATION                                      |
| 0908 | 22121447.D | BKK0142-BS2  | 1        |    | NO MANUAL INTEGRATION                                      |
| 0926 | 22121448.D | BKK0142-BSD1 | 1        |    | NO MANUAL INTEGRATION                                      |
| 0944 | 22121449.D | BKK0142-MS1  | 1        |    | NO MANUAL INTEGRATION                                      |
| 1002 | 22121450.D | BKK0142-MSD1 | 1        |    | NO MANUAL INTEGRATION                                      |
| 1020 | 22121451.D | 22J0513-01   | 1        |    | NO MANUAL INTEGRATION                                      |
| 1038 | 22121452.D | 22J0513-04   | 1        |    | NO MANUAL INTEGRATION                                      |
| 1055 | 22121453.D | 22J0535-01   | 1        |    | trans-Chlordane [C],                                       |
| 1113 | 22121454.D | 22K0429-01   | 1        |    | NO MANUAL INTEGRATION                                      |
| 1131 | 22121455.D | 22K0429-02   | 1        |    | Aldrin [C], Heptachlor epoxide b [C], trans-Chlordane [C], |
| 1149 | 22121456.D | 22K0429-03   | 1        |    | Aldrin [C],  |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

| Time | Filename   | LabID        | ClientId | DF | Manually Integrated Compounds |
|------|------------|--------------|----------|----|-------------------------------|
| 1207 | 22121457.D | SEQ-PEM3     | 1        |    | NO MANUAL INTEGRATION         |
| 1225 | 22121458.D | SEQ-CCV1     | 1        |    | NO MANUAL INTEGRATION         |
| 1243 | 22121459.D | SEQ-CCV2     | 1        |    | NO MANUAL INTEGRATION         |
| 1301 | 22121460.D | SEQ-CCV3     | 1        |    | NO MANUAL INTEGRATION         |
| 1319 | 22121461.D | SEQ-CCV4     | 1        |    | NO MANUAL INTEGRATION         |
| 1336 | 22121462.D | BKK0380-BLK1 | 1        |    | NO MANUAL INTEGRATION         |
| 1354 | 22121463.D | BKK0380-BS1  | 1        |    | NO MANUAL INTEGRATION         |
| 1412 | 22121464.D | BKK0380-BSD1 | 1        |    | NO MANUAL INTEGRATION         |
| 1430 | 22121465.D | 22K0157-01   | 1        |    | NO MANUAL INTEGRATION         |
| 1448 | 22121466.D | 22K0230-01   | 1        |    | NO MANUAL INTEGRATION         |
| 1506 | 22121467.D | 22K0231-01   | 1        |    | NO MANUAL INTEGRATION         |
| 1524 | 22121468.D | BKK0382-BLK1 | 1        |    | NO MANUAL INTEGRATION         |
| 1542 | 22121469.D | BKK0382-BS1  | 1        |    | NO MANUAL INTEGRATION         |
| 1600 | 22121470.D | BKK0382-BS2  | 1        |    | NO MANUAL INTEGRATION         |
| 1618 | 22121471.D | BKK0382-BSD1 | 1        |    | NO MANUAL INTEGRATION         |
| 1635 | 22121472.D | 22K0075-01   | 1        |    | NO MANUAL INTEGRATION         |
| 1653 | 22121473.D | SEQ-PEM4     | 1        |    | NO MANUAL INTEGRATION         |
| 1711 | 22121474.D | SEQ-CCV5     | 1        |    | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

| Time | Filename   | LabID            | ClientId | DF | Manually Integrated Compounds |
|------|------------|------------------|----------|----|-------------------------------|
| 1729 | 22121475.D | SEQ-CCV6         |          | 1  | NO MANUAL INTEGRATION         |
| 1747 | 22121476.D | SEQ-CCV7         |          | 1  | NO MANUAL INTEGRATION         |
| 1805 | 22121477.D | SEQ-CCV8         |          | 1  | NO MANUAL INTEGRATION         |
| 1823 | 22121478.D | BKK0537-BLK1     |          | 1  | NO MANUAL INTEGRATION         |
| 1840 | 22121479.D | BKK0537-BS1      |          | 1  | NO MANUAL INTEGRATION         |
| 1858 | 22121480.D | BKK0537-BS2      |          | 1  | NO MANUAL INTEGRATION         |
| 1916 | 22121481.D | 22K0194-01       |          | 1  | NO MANUAL INTEGRATION         |
| 1934 | 22121482.D | 22K0194-01RE1 10 |          | 1  | NO MANUAL INTEGRATION         |
| 1952 | 22121483.D | SEQ-PEM5         |          | 1  | NO MANUAL INTEGRATION         |
| 2010 | 22121484.D | SEQ-CCV9         |          | 1  | NO MANUAL INTEGRATION         |
| 2027 | 22121485.D | SEQ-CCVA         |          | 1  | NO MANUAL INTEGRATION         |
| 2045 | 22121486.D | SEQ-CCVB         |          | 1  | NO MANUAL INTEGRATION         |
| 2103 | 22121487.D | SEQ-CCVC         |          | 1  | NO MANUAL INTEGRATION         |



Security Status Report

Date: 17-Dec-2022 10:57

|            |             |                            |
|------------|-------------|----------------------------|
| 22121401.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121402.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121403.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121404.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121405.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121406.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121407.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121408.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121409.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121410.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121411.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121412.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121413.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121414.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121415.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121416.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121417.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121418.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121419.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121420.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121421.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121422.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121423.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121424.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121425.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121426.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121427.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121428.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121429.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121430.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121431.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121432.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121433.D | Data Locked | j rains, 17-Dec-2022 10:57 |
| 22121434.D | Data Locked | j rains, 17-Dec-2022 10:57 |



Dual Column  
ANALYSIS BATCH (SEQUENCE) SUMMARY  
EPA 8081B

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0156

Instrument: ECD6

Calibration: FL00041

| Sample Name       | Lab Sample ID | Column 1 File ID | Column 2 File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|------------------|--------|--------------------|
| Initial Cal Check | SLB0156-ICV1  | 23020903.D       | 23020903.D       | NA     | 02/09/23 20:06     |
| Calibration Check | SLB0156-CCV1  | 23020920.D       | 23020920.D       | NA     | 02/10/23 01:10     |
| Blank             | BLA0556-BLK1  | 23020925.D       | 23020925.D       | Solid  | 02/10/23 02:39     |
| LCS               | BLA0556-BS1   | 23020926.D       | 23020926.D       | Solid  | 02/10/23 02:57     |
| LCS Dup           | BLA0556-BSD1  | 23020927.D       | 23020927.D       | Solid  | 02/10/23 03:15     |
| LDW23-SS1200      | BLA0556-MS1   | 23020928.D       | 23020928.D       | Solid  | 02/10/23 03:33     |
| LDW23-SS1200      | BLA0556-MSD1  | 23020929.D       | 23020929.D       | Solid  | 02/10/23 03:51     |
| LDW23-SS1277      | 23A0179-01    | 23020930.D       | 23020930.D       | Solid  | 02/10/23 04:09     |
| LDW23-SS1271      | 23A0179-02    | 23020931.D       | 23020931.D       | Solid  | 02/10/23 04:26     |
| LDW23-SS1266      | 23A0179-03    | 23020932.D       | 23020932.D       | Solid  | 02/10/23 04:44     |
| LDW23-SS1248      | 23A0179-04    | 23020933.D       | 23020933.D       | Solid  | 02/10/23 05:02     |
| LDW23-SS1239      | 23A0179-05    | 23020934.D       | 23020934.D       | Solid  | 02/10/23 05:20     |
| LDW23-SS1213      | 23A0179-06    | 23020935.D       | 23020935.D       | Solid  | 02/10/23 05:38     |
| Calibration Check | SLB0156-CCV2  | 23020937.D       | 23020937.D       | NA     | 02/10/23 06:14     |
| LDW23-SS1200      | 23A0179-07    | 23020938.D       | 23020938.D       | Solid  | 02/10/23 06:32     |
| LDW23-SS1178      | 23A0179-08    | 23020939.D       | 23020939.D       | Solid  | 02/10/23 06:49     |
| LDW23-SS1171      | 23A0179-09    | 23020940.D       | 23020940.D       | Solid  | 02/10/23 07:07     |
| LDW23-SS1112      | 23A0179-10    | 23020941.D       | 23020941.D       | Solid  | 02/10/23 07:25     |
| LDW23-SS1039      | 23A0179-11    | 23020942.D       | 23020942.D       | Solid  | 02/10/23 07:43     |
| LDW23-SS1007      | 23A0179-12    | 23020943.D       | 23020943.D       | Solid  | 02/10/23 08:01     |
| Calibration Check | SLB0156-CCV3  | 23020949.D       | 23020949.D       | NA     | 02/10/23 09:48     |



ANALYSIS SEQUENCE

SLB0156

Instrument: ECD6  
Calibration ID: FL00041

Printed: 2/11/2023 12:06:57PM

| Lab Number   | Analysis           | Container | Order | Position | STD ID  | ISTD ID | Client          | Comments |
|--------------|--------------------|-----------|-------|----------|---------|---------|-----------------|----------|
| SLB0156-ICV1 | QC                 |           | 1     |          | L000845 | L000844 |                 |          |
| 23A0134-15   | 8081B Pest (PSDDA) | C 01      | 2     |          |         | L000844 | Anchor QEA, LLC |          |
| BLA0553-BLK1 | QC                 |           | 3     |          |         | L000844 |                 |          |
| BLA0553-BS1  | QC                 |           | 4     |          |         | L000844 |                 |          |
| BLA0553-BSD1 | QC                 |           | 5     |          |         | L000844 |                 |          |
| BLA0553-MS1  | QC                 |           | 6     |          |         | L000844 |                 |          |
| BLA0553-MSD1 | QC                 |           | 7     |          |         | L000844 |                 |          |
| 23A0158-04   | 8081B Pest (PSDDA) | A 01      | 8     |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0158-05   | 8081B Pest (PSDDA) | A 01      | 9     |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0158-06   | 8081B Pest (PSDDA) | A 01      | 10    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0158-07   | 8081B Pest (PSDDA) | A 01      | 11    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0158-08   | 8081B Pest (PSDDA) | A 01      | 12    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0158-09   | 8081B Pest (PSDDA) | A 01      | 13    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0158-10   | 8081B Pest (PSDDA) | A 01      | 14    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0158-11   | 8081B Pest (PSDDA) | A 01      | 15    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0158-12   | 8081B Pest (PSDDA) | A 01      | 16    |          |         | L000844 | Anchor QEA, LLC |          |
| SLB0156-PEM1 | QC                 |           | 17    |          | K007286 | L000844 |                 |          |
| SLB0156-CCV1 | QC                 |           | 18    |          | L000845 | L000844 |                 |          |
| 23A0158-13   | 8081B Pest (PSDDA) | A 01      | 19    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0158-14   | 8081B Pest (PSDDA) | A 01      | 20    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0158-15   | 8081B Pest (PSDDA) | A 01      | 21    |          |         | L000844 | Anchor QEA, LLC |          |

Samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

Data Processed By \_\_\_\_\_ Date \_\_\_\_\_



**ANALYSIS SEQUENCE**

**SLB0156**

Instrument: ECD6  
Calibration ID: FL00041

Printed: 2/11/2023 12:06:57PM

| Lab Number   | Analysis           | Container | Order | Position | STD ID  | ISTD ID | Client          | Comments |
|--------------|--------------------|-----------|-------|----------|---------|---------|-----------------|----------|
| 23A0158-16   | 8081B Pest (PSDDA) | A 01      | 22    |          |         | L000844 | Anchor QEA, LLC |          |
| BLA0556-BLK1 | QC                 |           | 23    |          |         | L000844 |                 |          |
| BLA0556-BS1  | QC                 |           | 24    |          |         | L000844 |                 |          |
| BLA0556-BSD1 | QC                 |           | 25    |          |         | L000844 |                 |          |
| BLA0556-MS1  | QC                 |           | 26    |          |         | L000844 |                 |          |
| BLA0556-MSD1 | QC                 |           | 27    |          |         | L000844 |                 |          |
| 23A0179-01   | 8081B Pest (PSDDA) | A 01      | 28    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0179-02   | 8081B Pest (PSDDA) | A 01      | 29    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0179-03   | 8081B Pest (PSDDA) | A 01      | 30    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0179-04   | 8081B Pest (PSDDA) | A 01      | 31    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0179-05   | 8081B Pest (PSDDA) | A 01      | 32    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0179-06   | 8081B Pest (PSDDA) | A 01      | 33    |          |         | L000844 | Anchor QEA, LLC |          |
| SLB0156-PEM2 | QC                 |           | 34    |          | K007286 | L000844 |                 |          |
| SLB0156-CCV2 | QC                 |           | 35    |          | L000845 | L000844 |                 |          |
| 23A0179-07   | 8081B Pest (PSDDA) | A 01      | 36    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0179-08   | 8081B Pest (PSDDA) | A 01      | 37    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0179-09   | 8081B Pest (PSDDA) | A 01      | 38    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0179-10   | 8081B Pest (PSDDA) | A 01      | 39    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0179-11   | 8081B Pest (PSDDA) | A 01      | 40    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0179-12   | 8081B Pest (PSDDA) | A 01      | 41    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0180-01   | 8081B Pest (PSDDA) | A 01      | 42    |          |         | L000844 | Anchor QEA, LLC |          |

Samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

Data Processed By \_\_\_\_\_ Date \_\_\_\_\_



ANALYSIS SEQUENCE

SLB0156

Instrument: ECD6  
Calibration ID: FL00041

Printed: 2/11/2023 12:06:57PM

| Lab Number   | Analysis           | Container | Order | Position | STD ID  | ISTD ID | Client          | Comments |
|--------------|--------------------|-----------|-------|----------|---------|---------|-----------------|----------|
| 23A0180-02   | 8081B Pest (PSDDA) | A 01      | 43    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0180-03   | 8081B Pest (PSDDA) | A 01      | 44    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0180-04   | 8081B Pest (PSDDA) | A 01      | 45    |          |         | L000844 | Anchor QEA, LLC |          |
| SLB0156-PEM3 | QC                 |           | 46    |          | K007286 | L000844 |                 |          |
| SLB0156-CCV3 | QC                 |           | 47    |          | L000845 | L000844 |                 |          |

Samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

Data Processed By \_\_\_\_\_ Date \_\_\_\_\_

## GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230209.b

|    | Inject      | Date/Time | Filename   | DF | LabID        | ClientID |
|----|-------------|-----------|------------|----|--------------|----------|
| 1  | 09-FEB-2023 | 19:30     | 23020901.D | 1  | RINSE        |          |
| 2  | 09-FEB-2023 | 19:48     | 23020902.D | 1  | SEQ-PEM1     |          |
| 3  | 09-FEB-2023 | 20:06     | 23020903.D | 1  | SEQ-ICV1     |          |
| 4  | 09-FEB-2023 | 20:24     | 23020904.D | 1  | 23A0134-15   |          |
| 5  | 09-FEB-2023 | 20:41     | 23020905.D | 1  | BLA0553-BLK1 |          |
| 6  | 09-FEB-2023 | 20:59     | 23020906.D | 1  | BLA0553-BS1  |          |
| 7  | 09-FEB-2023 | 21:17     | 23020907.D | 1  | BLA0553-BSD1 |          |
| 8  | 09-FEB-2023 | 21:35     | 23020908.D | 1  | BLA0553-MS1  |          |
| 9  | 09-FEB-2023 | 21:53     | 23020909.D | 1  | BLA0553-MSD1 |          |
| 10 | 09-FEB-2023 | 22:11     | 23020910.D | 1  | 23A0158-04   |          |
| 11 | 09-FEB-2023 | 22:29     | 23020911.D | 1  | 23A0158-05   |          |
| 12 | 09-FEB-2023 | 22:47     | 23020912.D | 1  | 23A0158-06   |          |
| 13 | 09-FEB-2023 | 23:05     | 23020913.D | 1  | 23A0158-07   |          |
| 14 | 09-FEB-2023 | 23:23     | 23020914.D | 1  | 23A0158-08   |          |
| 15 | 09-FEB-2023 | 23:40     | 23020915.D | 1  | 23A0158-09   |          |
| 16 | 09-FEB-2023 | 23:58     | 23020916.D | 1  | 23A0158-10   |          |
| 17 | 10-FEB-2023 | 00:16     | 23020917.D | 1  | 23A0158-11   |          |
| 18 | 10-FEB-2023 | 00:34     | 23020918.D | 1  | 23A0158-12   |          |
| 19 | 10-FEB-2023 | 00:52     | 23020919.D | 1  | SEQ-PEM2     |          |
| 20 | 10-FEB-2023 | 01:10     | 23020920.D | 1  | SEQ-CCV1     |          |
| 21 | 10-FEB-2023 | 01:28     | 23020921.D | 1  | 23A0158-13   |          |
| 22 | 10-FEB-2023 | 01:46     | 23020922.D | 1  | 23A0158-14   |          |
| 23 | 10-FEB-2023 | 02:04     | 23020923.D | 1  | 23A0158-15   |          |
| 24 | 10-FEB-2023 | 02:21     | 23020924.D | 1  | 23A0158-16   |          |
| 25 | 10-FEB-2023 | 02:39     | 23020925.D | 1  | BLA0556-BLK1 |          |
| 26 | 10-FEB-2023 | 02:57     | 23020926.D | 1  | BLA0556-BS1  |          |
| 27 | 10-FEB-2023 | 03:15     | 23020927.D | 1  | BLA0556-BSD1 |          |
| 28 | 10-FEB-2023 | 03:33     | 23020928.D | 1  | BLA0556-MS1  |          |
| 29 | 10-FEB-2023 | 03:51     | 23020929.D | 1  | BLA0556-MSD1 |          |
| 30 | 10-FEB-2023 | 04:09     | 23020930.D | 1  | 23A0179-01   |          |
| 31 | 10-FEB-2023 | 04:26     | 23020931.D | 1  | 23A0179-02   |          |
| 32 | 10-FEB-2023 | 04:44     | 23020932.D | 1  | 23A0179-03   |          |
| 33 | 10-FEB-2023 | 05:02     | 23020933.D | 1  | 23A0179-04   |          |
| 34 | 10-FEB-2023 | 05:20     | 23020934.D | 1  | 23A0179-05   |          |
| 35 | 10-FEB-2023 | 05:38     | 23020935.D | 1  | 23A0179-06   |          |
| 36 | 10-FEB-2023 | 05:56     | 23020936.D | 1  | SEQ-PEM3     |          |
| 37 | 10-FEB-2023 | 06:14     | 23020937.D | 1  | SEQ-CCV2     |          |
| 38 | 10-FEB-2023 | 06:32     | 23020938.D | 1  | 23A0179-07   |          |
| 39 | 10-FEB-2023 | 06:49     | 23020939.D | 1  | 23A0179-08   |          |
| 40 | 10-FEB-2023 | 07:07     | 23020940.D | 1  | 23A0179-09   |          |
| 41 | 10-FEB-2023 | 07:25     | 23020941.D | 1  | 23A0179-10   |          |
| 42 | 10-FEB-2023 | 07:43     | 23020942.D | 1  | 23A0179-11   |          |
| 43 | 10-FEB-2023 | 08:01     | 23020943.D | 1  | 23A0179-12   |          |
| 44 | 10-FEB-2023 | 08:19     | 23020944.D | 1  | 23A0180-01   |          |
| 45 | 10-FEB-2023 | 08:37     | 23020945.D | 1  | 23A0180-02   |          |
| 46 | 10-FEB-2023 | 08:54     | 23020946.D | 1  | 23A0180-03   |          |
| 47 | 10-FEB-2023 | 09:12     | 23020947.D | 1  | 23A0180-04   |          |
| 48 | 10-FEB-2023 | 09:30     | 23020948.D | 1  | SEQ-PEM4     |          |
| 49 | 10-FEB-2023 | 09:48     | 23020949.D | 1  | SEQ-CCV3     |          |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230209.b

ARI Job No.: RINS Method: PEST.m Instrument: ecd6.i Date: 09-FEB-2023

| Time | Filename   | LabID        | ClientId | DF | Manually Integrated Compounds |
|------|------------|--------------|----------|----|-------------------------------|
| 1930 | 23020901.D | RINSE        |          | 1  | NO MANUAL INTEGRATION         |
| 1948 | 23020902.D | SEQ-PEM1     |          | 1  | NO MANUAL INTEGRATION         |
| 2006 | 23020903.D | SEQ-ICV1     |          | 1  | NO MANUAL INTEGRATION         |
| 2024 | 23020904.D | 23A0134-15   |          | 1  | Hexachlorobenzene,            |
| 2041 | 23020905.D | BLA0553-BLK1 |          | 1  | NO MANUAL INTEGRATION         |
| 2059 | 23020906.D | BLA0553-BS1  |          | 1  | NO MANUAL INTEGRATION         |
| 2117 | 23020907.D | BLA0553-BSD1 |          | 1  | NO MANUAL INTEGRATION         |
| 2135 | 23020908.D | BLA0553-MS1  |          | 1  | NO MANUAL INTEGRATION         |
| 2153 | 23020909.D | BLA0553-MSD1 |          | 1  | NO MANUAL INTEGRATION         |
| 2211 | 23020910.D | 23A0158-04   |          | 1  | Hexachlorobenzene,            |
| 2229 | 23020911.D | 23A0158-05   |          | 1  | NO MANUAL INTEGRATION         |
| 2247 | 23020912.D | 23A0158-06   |          | 1  | NO MANUAL INTEGRATION         |
| 2305 | 23020913.D | 23A0158-07   |          | 1  | NO MANUAL INTEGRATION         |
| 2323 | 23020914.D | 23A0158-08   |          | 1  | NO MANUAL INTEGRATION         |
| 2340 | 23020915.D | 23A0158-09   |          | 1  | Hexachlorobenzene,            |
| 2358 | 23020916.D | 23A0158-10   |          | 1  | NO MANUAL INTEGRATION         |
| 0016 | 23020917.D | 23A0158-11   |          | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230209.b

| Time | Filename   | LabID        | ClientId | DF | Manually Integrated Compounds |
|------|------------|--------------|----------|----|-------------------------------|
| 0034 | 23020918.D | 23A0158-12   | 1        |    | NO MANUAL INTEGRATION         |
| 0052 | 23020919.D | SEQ-PEM2     | 1        |    | NO MANUAL INTEGRATION         |
| 0110 | 23020920.D | SEQ-CCV1     | 1        |    | NO MANUAL INTEGRATION         |
| 0128 | 23020921.D | 23A0158-13   | 1        |    | NO MANUAL INTEGRATION         |
| 0146 | 23020922.D | 23A0158-14   | 1        |    | NO MANUAL INTEGRATION         |
| 0204 | 23020923.D | 23A0158-15   | 1        |    | Hexachlorobenzene,            |
| 0221 | 23020924.D | 23A0158-16   | 1        |    | NO MANUAL INTEGRATION         |
| 0239 | 23020925.D | BLA0556-BLK1 | 1        |    | NO MANUAL INTEGRATION         |
| 0257 | 23020926.D | BLA0556-BS1  | 1        |    | NO MANUAL INTEGRATION         |
| 0315 | 23020927.D | BLA0556-BSD1 | 1        |    | NO MANUAL INTEGRATION         |
| 0333 | 23020928.D | BLA0556-MS1  | 1        |    | NO MANUAL INTEGRATION         |
| 0351 | 23020929.D | BLA0556-MSD1 | 1        |    | NO MANUAL INTEGRATION         |
| 0409 | 23020930.D | 23A0179-01   | 1        |    | Hexachlorobenzene,            |
| 0426 | 23020931.D | 23A0179-02   | 1        |    | Hexachlorobenzene,            |
| 0444 | 23020932.D | 23A0179-03   | 1        |    | NO MANUAL INTEGRATION         |
| 0502 | 23020933.D | 23A0179-04   | 1        |    | NO MANUAL INTEGRATION         |
| 0520 | 23020934.D | 23A0179-05   | 1        |    | Hexachlorobenzene,            |
| 0538 | 23020935.D | 23A0179-06   | 1        |    | NO MANUAL INTEGRATION         |



MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230209.b

| Time | Filename   | LabID      | ClientId | DF | Manually Integrated Compounds |
|------|------------|------------|----------|----|-------------------------------|
| 0556 | 23020936.D | SEQ-PEM3   | 1        | NO | MANUAL INTEGRATION            |
| 0614 | 23020937.D | SEQ-CCV2   | 1        | NO | MANUAL INTEGRATION            |
| 0632 | 23020938.D | 23A0179-07 | 1        | NO | MANUAL INTEGRATION            |
| 0649 | 23020939.D | 23A0179-08 | 1        | NO | MANUAL INTEGRATION            |
| 0707 | 23020940.D | 23A0179-09 | 1        | NO | MANUAL INTEGRATION            |
| 0725 | 23020941.D | 23A0179-10 | 1        | NO | MANUAL INTEGRATION            |
| 0743 | 23020942.D | 23A0179-11 | 1        | NO | MANUAL INTEGRATION            |
| 0801 | 23020943.D | 23A0179-12 | 1        | NO | MANUAL INTEGRATION            |
| 0819 | 23020944.D | 23A0180-01 | 1        | NO | MANUAL INTEGRATION            |
| 0837 | 23020945.D | 23A0180-02 | 1        | NO | MANUAL INTEGRATION            |
| 0854 | 23020946.D | 23A0180-03 | 1        | NO | MANUAL INTEGRATION            |
| 0912 | 23020947.D | 23A0180-04 | 1        | NO | MANUAL INTEGRATION            |
| 0930 | 23020948.D | SEQ-PEM4   | 1        | NO | MANUAL INTEGRATION            |
| 0948 | 23020949.D | SEQ-CCV3   | 1        | NO | MANUAL INTEGRATION            |

Security Status Report

Date: 11-Feb-2023 11:35

|            |             |          |
|------------|-------------|----------|
| 23020901.D | Data Locked | yev, 11- |
| 23020902.D | Data Locked | yev, 11- |
| 23020903.D | Data Locked | yev, 11- |
| 23020904.D | Data Locked | yev, 11- |
| 23020905.D | Data Locked | yev, 11- |
| 23020906.D | Data Locked | yev, 11- |
| 23020907.D | Data Locked | yev, 11- |
| 23020908.D | Data Locked | yev, 11- |
| 23020909.D | Data Locked | yev, 11- |
| 23020910.D | Data Locked | yev, 11- |
| 23020911.D | Data Locked | yev, 11- |
| 23020912.D | Data Locked | yev, 11- |
| 23020913.D | Data Locked | yev, 11- |
| 23020914.D | Data Locked | yev, 11- |
| 23020915.D | Data Locked | yev, 11- |
| 23020916.D | Data Locked | yev, 11- |
| 23020917.D | Data Locked | yev, 11- |
| 23020918.D | Data Locked | yev, 11- |
| 23020919.D | Data Locked | yev, 11- |
| 23020920.D | Data Locked | yev, 11- |
| 23020921.D | Data Locked | yev, 11- |
| 23020922.D | Data Locked | yev, 11- |
| 23020923.D | Data Locked | yev, 11- |
| 23020924.D | Data Locked | yev, 11- |
| 23020925.D | Data Locked | yev, 11- |
| 23020926.D | Data Locked | yev, 11- |
| 23020927.D | Data Locked | yev, 11- |
| 23020928.D | Data Locked | yev, 11- |
| 23020929.D | Data Locked | yev, 11- |
| 23020930.D | Data Locked | yev, 11- |
| 23020931.D | Data Locked | yev, 11- |
| 23020932.D | Data Locked | yev, 11- |
| 23020933.D | Data Locked | yev, 11- |
| 23020934.D | Data Locked | yev, 11- |
| 23020935.D | Data Locked | yev, 11- |
| 23020936.D | Data Locked | yev, 11- |
| 23020937.D | Data Locked | yev, 11- |
| 23020938.D | Data Locked | yev, 11- |
| 23020939.D | Data Locked | yev, 11- |
| 23020940.D | Data Locked | yev, 11- |
| 23020941.D | Data Locked | yev, 11- |
| 23020942.D | Data Locked | yev, 11- |
| 23020943.D | Data Locked | yev, 11- |
| 23020944.D | Data Locked | yev, 11- |
| 23020945.D | Data Locked | yev, 11- |
| 23020946.D | Data Locked | yev, 11- |
| 23020947.D | Data Locked | yev, 11- |
| 23020948.D | Data Locked | yev, 11- |
| 23020949.D | Data Locked | yev, 11- |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8081B**

|              |                                  |                   |                        |
|--------------|----------------------------------|-------------------|------------------------|
| Laboratory:  | <u>Analytical Resources, LLC</u> | SDG/WO:           | <u>23A0179</u>         |
| Client:      | <u>Anchor OEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Sequence:    | <u>SKL0233</u>                   | Instrument:       | <u>ECD6</u>            |
| Calibration: | <u>FL00041</u>                   | Calibration Date: | <u>12/15/2022</u>      |

| Surrogate Compound          | Spike Level ng/mL | % Recovery              | Recovery Limits | RT     | Calibration Mean RT      | RT Diff | RT Diff Limit | Q |
|-----------------------------|-------------------|-------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| <b>SKL0233-PEM1 (Water)</b> |                   | Lab File ID: 22121404.D |                 |        | Analyzed: 12/14/22 20:20 |         |               |   |
| Decachlorobiphenyl          | 160.00            | 83.0                    | 0 - 200         | 9.355  | 9.354666                 | 0.0003  | +/-0.1        |   |
| Decachlorobiphenyl [2C]     | 160.00            | 83.5                    | 0 - 200         | 10.466 | 10.4655                  | 0.0005  | +/-0.1        |   |
| Tetrachlorometaxylene       | 160.00            | 78.1                    | 0 - 200         | 3.828  | 3.827833                 | 0.0002  | +/-0.1        |   |
| Tetrachlorometaxylene [2C]  | 160.00            | 83.5                    | 0 - 200         | 4.22   | 4.219666                 | 0.0003  | +/-0.1        |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8081B**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLB0156  
Calibration: FL00041

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: ECD6  
Calibration Date: 12/14/2022

| Surrogate Compound   | Spike Level ng/mL | % Recovery | Recovery Limits | RT     | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|-------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| <b>SLB0156-ICV1 (Solid)</b> Lab File ID: 23020903.D Analyzed: 02/09/23 20:06 |                   |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000            | 102        | 80 - 120        | 9.307  | 9.354666            | -0.0477 | +/-0.1        |   |
| Decachlorobiphenyl [2C]  | 40.000            | 99.0       | 80 - 120        | 10.404 | 10.4655             | -0.0615 | +/-0.1        |   |
| Tetrachlorometaxylene  | 40.000            | 90.9       | 80 - 120        | 3.791  | 3.827833            | -0.0368 | +/-0.1        |   |
| Tetrachlorometaxylene [2C]   | 40.000            | 100        | 80 - 120        | 4.182  | 4.219666            | -0.0377 | +/-0.1        |   |
| <b>SLB0156-CCV1 (Solid)</b> Lab File ID: 23020920.D Analyzed: 02/10/23 01:10 |                   |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000            | 101        | 80 - 120        | 9.307  | 9.354666            | -0.0477 | +/-0.1        |   |
| Decachlorobiphenyl [2C]  | 40.000            | 103        | 80 - 120        | 10.403 | 10.4655             | -0.0625 | +/-0.1        |   |
| Tetrachlorometaxylene  | 40.000            | 99.8       | 80 - 120        | 3.793  | 3.827833            | -0.0348 | +/-0.1        |   |
| Tetrachlorometaxylene [2C]   | 40.000            | 95.7       | 80 - 120        | 4.183  | 4.219666            | -0.0367 | +/-0.1        |   |
| <b>BLA0556-BLK1 (Solid)</b> Lab File ID: 23020925.D Analyzed: 02/10/23 02:39 |                   |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 8.0000            | 132        | 30 - 160        | 9.305  | 9.354666            | -0.0497 | +/-0.1        |   |
| Decachlorobiphenyl [2C]  | 8.0000            | 140        | 30 - 160        | 10.402 | 10.4655             | -0.0635 | +/-0.1        |   |
| Tetrachlorometaxylene  | 8.0000            | 107        | 30 - 160        | 3.791  | 3.827833            | -0.0368 | +/-0.1        |   |
| Tetrachlorometaxylene [2C]   | 8.0000            | 98.1       | 30 - 160        | 4.182  | 4.219666            | -0.0377 | +/-0.1        |   |
| <b>BLA0556-BS1 (Solid)</b> Lab File ID: 23020926.D Analyzed: 02/10/23 02:57  |                   |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 8.0000            | 87.9       | 30 - 160        | 9.305  | 9.354666            | -0.0497 | +/-0.1        |   |
| Decachlorobiphenyl [2C]  | 8.0000            | 89.6       | 30 - 160        | 10.403 | 10.4655             | -0.0625 | +/-0.1        |   |
| Tetrachlorometaxylene  | 8.0000            | 71.1       | 30 - 160        | 3.791  | 3.827833            | -0.0368 | +/-0.1        |   |
| Tetrachlorometaxylene [2C]   | 8.0000            | 66.5       | 30 - 160        | 4.182  | 4.219666            | -0.0377 | +/-0.1        |   |
| <b>BLA0556-BSD1 (Solid)</b> Lab File ID: 23020927.D Analyzed: 02/10/23 03:15 |                   |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 8.0000            | 78.2       | 30 - 160        | 9.305  | 9.354666            | -0.0497 | +/-0.1        |   |
| Decachlorobiphenyl [2C]  | 8.0000            | 88.7       | 30 - 160        | 10.402 | 10.4655             | -0.0635 | +/-0.1        |   |
| Tetrachlorometaxylene  | 8.0000            | 73.0       | 30 - 160        | 3.791  | 3.827833            | -0.0368 | +/-0.1        |   |
| Tetrachlorometaxylene [2C]   | 8.0000            | 69.1       | 30 - 160        | 4.182  | 4.219666            | -0.0377 | +/-0.1        |   |
| <b>BLA0556-MS1 (Solid)</b> Lab File ID: 23020928.D Analyzed: 02/10/23 03:33  |                   |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 7.9992            | 81.6       | 30 - 160        | 9.305  | 9.354666            | -0.0497 | +/-0.1        |   |
| Decachlorobiphenyl [2C]  | 7.9992            | 82.2       | 30 - 160        | 10.403 | 10.4655             | -0.0625 | +/-0.1        |   |
| Tetrachlorometaxylene  | 7.9992            | 76.5       | 30 - 160        | 3.79   | 3.827833            | -0.0378 | +/-0.1        |   |
| Tetrachlorometaxylene [2C]   | 7.9992            | 70.0       | 30 - 160        | 4.181  | 4.219666            | -0.0387 | +/-0.1        |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8081B**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLB0156  
Calibration: FL00041

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: ECD6  
Calibration Date: 12/15/2022

| Surrogate Compound          | Spike Level ug/kg dry | % Recovery | Recovery Limits         | RT     | Calibration Mean RT      | RT Diff | RT Diff Limit | Q |
|-----------------------------|-----------------------|------------|-------------------------|--------|--------------------------|---------|---------------|---|
| <b>BLA0556-MSD1 (Solid)</b> |                       |            | Lab File ID: 23020929.D |        | Analyzed: 02/10/23 03:51 |         |               |   |
| Decachlorobiphenyl          | 7.9992                | 86.2       | 30 - 160                | 9.305  | 9.354666                 | -0.0497 | +/-0.1        |   |
| Decachlorobiphenyl [2C]     | 7.9992                | 89.1       | 30 - 160                | 10.402 | 10.4655                  | -0.0635 | +/-0.1        |   |
| Tetrachlorometaxylene       | 7.9992                | 81.2       | 30 - 160                | 3.79   | 3.827833                 | -0.0378 | +/-0.1        |   |
| Tetrachlorometaxylene [2C]  | 7.9992                | 71.9       | 30 - 160                | 4.181  | 4.219666                 | -0.0387 | +/-0.1        |   |
| <b>23A0179-01 (Solid)</b>   |                       |            | Lab File ID: 23020930.D |        | Analyzed: 02/10/23 04:09 |         |               |   |
| Decachlorobiphenyl          | 7.7703                | 83.9       | 30 - 160                | 9.305  | 9.354666                 | -0.0497 | +/-0.1        |   |
| Decachlorobiphenyl [2C]     | 7.7703                | 87.8       | 30 - 160                | 10.403 | 10.4655                  | -0.0625 | +/-0.1        |   |
| Tetrachlorometaxylene       | 7.7703                | 72.9       | 30 - 160                | 3.79   | 3.827833                 | -0.0378 | +/-0.1        |   |
| Tetrachlorometaxylene [2C]  | 7.7703                | 69.1       | 30 - 160                | 4.181  | 4.219666                 | -0.0387 | +/-0.1        |   |
| <b>23A0179-02 (Solid)</b>   |                       |            | Lab File ID: 23020931.D |        | Analyzed: 02/10/23 04:26 |         |               |   |
| Decachlorobiphenyl          | 7.9283                | 84.8       | 30 - 160                | 9.306  | 9.354666                 | -0.0487 | +/-0.1        |   |
| Decachlorobiphenyl [2C]     | 7.9283                | 91.5       | 30 - 160                | 10.402 | 10.4655                  | -0.0635 | +/-0.1        |   |
| Tetrachlorometaxylene       | 7.9283                | 67.5       | 30 - 160                | 3.79   | 3.827833                 | -0.0378 | +/-0.1        |   |
| Tetrachlorometaxylene [2C]  | 7.9283                | 67.5       | 30 - 160                | 4.181  | 4.219666                 | -0.0387 | +/-0.1        |   |
| <b>23A0179-03 (Solid)</b>   |                       |            | Lab File ID: 23020932.D |        | Analyzed: 02/10/23 04:44 |         |               |   |
| Decachlorobiphenyl          | 7.7948                | 85.7       | 30 - 160                | 9.305  | 9.354666                 | -0.0497 | +/-0.1        |   |
| Decachlorobiphenyl [2C]     | 7.7948                | 89.8       | 30 - 160                | 10.402 | 10.4655                  | -0.0635 | +/-0.1        |   |
| Tetrachlorometaxylene       | 7.7948                | 69.9       | 30 - 160                | 3.79   | 3.827833                 | -0.0378 | +/-0.1        |   |
| Tetrachlorometaxylene [2C]  | 7.7948                | 65.7       | 30 - 160                | 4.181  | 4.219666                 | -0.0387 | +/-0.1        |   |
| <b>23A0179-04 (Solid)</b>   |                       |            | Lab File ID: 23020933.D |        | Analyzed: 02/10/23 05:02 |         |               |   |
| Decachlorobiphenyl          | 7.7858                | 89.4       | 30 - 160                | 9.306  | 9.354666                 | -0.0487 | +/-0.1        |   |
| Decachlorobiphenyl [2C]     | 7.7858                | 89.5       | 30 - 160                | 10.402 | 10.4655                  | -0.0635 | +/-0.1        |   |
| Tetrachlorometaxylene       | 7.7858                | 65.3       | 30 - 160                | 3.789  | 3.827833                 | -0.0388 | +/-0.1        |   |
| Tetrachlorometaxylene [2C]  | 7.7858                | 65.8       | 30 - 160                | 4.181  | 4.219666                 | -0.0387 | +/-0.1        |   |
| <b>23A0179-05 (Solid)</b>   |                       |            | Lab File ID: 23020934.D |        | Analyzed: 02/10/23 05:20 |         |               |   |
| Decachlorobiphenyl          | 7.8961                | 87.9       | 30 - 160                | 9.305  | 9.354666                 | -0.0497 | +/-0.1        |   |
| Decachlorobiphenyl [2C]     | 7.8961                | 88.6       | 30 - 160                | 10.402 | 10.4655                  | -0.0635 | +/-0.1        |   |
| Tetrachlorometaxylene       | 7.8961                | 74.9       | 30 - 160                | 3.79   | 3.827833                 | -0.0378 | +/-0.1        |   |
| Tetrachlorometaxylene [2C]  | 7.8961                | 63.7       | 30 - 160                | 4.181  | 4.219666                 | -0.0387 | +/-0.1        |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8081B**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLB0156  
Calibration: FL00041

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: ECD6  
Calibration Date: 12/15/2022

| Surrogate Compound   | Spike Level ug/kg dry | % Recovery | Recovery Limits | RT     | Calibration Mean RT | RT Diff | RT Diff Limit | Q   |
|--|-----------------------|------------|-----------------|--------|---------------------|---------|---------------|-----|
| <b>23A0179-06 (Solid)</b> Lab File ID: 23020935.D Analyzed: 02/10/23 05:38   |                       |            |                 |        |                     |         |               |     |
| Decachlorobiphenyl   | 7.7253                | 90.6       | 30 - 160        | 9.306  | 9.354666            | -0.0487 | +/-0.1        |     |
| Decachlorobiphenyl [2C]  | 7.7253                | 89.6       | 30 - 160        | 10.402 | 10.4655             | -0.0635 | +/-0.1        |     |
| Tetrachlorometaxylene  | 7.7253                | 71.9       | 30 - 160        | 3.789  | 3.827833            | -0.0388 | +/-0.1        |     |
| Tetrachlorometaxylene [2C]   | 7.7253                | 67.6       | 30 - 160        | 4.181  | 4.219666            | -0.0387 | +/-0.1        |     |
| <b>SLB0156-CCV2 (Solid)</b> Lab File ID: 23020937.D Analyzed: 02/10/23 06:14 |                       |            |                 |        |                     |         |               |     |
| Decachlorobiphenyl   | 40.000                | 100        | 80 - 120        | 9.306  | 9.354666            | -0.0487 | +/-0.1        |     |
| Decachlorobiphenyl [2C]  | 40.000                | 98.2       | 80 - 120        | 10.403 | 10.4655             | -0.0625 | +/-0.1        |     |
| Tetrachlorometaxylene  | 40.000                | 95.2       | 80 - 120        | 3.79   | 3.827833            | -0.0378 | +/-0.1        |     |
| Tetrachlorometaxylene [2C]   | 40.000                | 105        | 80 - 120        | 4.181  | 4.219666            | -0.0387 | +/-0.1        |     |
| <b>23A0179-07 (Solid)</b> Lab File ID: 23020938.D Analyzed: 02/10/23 06:32   |                       |            |                 |        |                     |         |               |     |
| Decachlorobiphenyl   | 7.9992                | 77.9       | 30 - 160        | 9.305  | 9.354666            | -0.0497 | +/-0.1        |     |
| Decachlorobiphenyl [2C]  | 7.9992                | 80.9       | 30 - 160        | 10.402 | 10.4655             | -0.0635 | +/-0.1        |     |
| Tetrachlorometaxylene  | 7.9992                | 69.8       | 30 - 160        | 3.79   | 3.827833            | -0.0378 | +/-0.1        |     |
| Tetrachlorometaxylene [2C]   | 7.9992                | 63.4       | 30 - 160        | 4.181  | 4.219666            | -0.0387 | +/-0.1        |     |
| <b>23A0179-08 (Solid)</b> Lab File ID: 23020939.D Analyzed: 02/10/23 06:49   |                       |            |                 |        |                     |         |               |     |
| Decachlorobiphenyl   | 7.7385                | 86.1       | 30 - 160        | 9.305  | 9.354666            | -0.0497 | +/-0.1        |     |
| Decachlorobiphenyl [2C]  | 7.7385                | 81.4       | 30 - 160        | 10.402 | 10.4655             | -0.0635 | +/-0.1        |     |
| Tetrachlorometaxylene  | 7.7385                | 67.1       | 30 - 160        | 3.79   | 3.827833            | -0.0378 | +/-0.1        |     |
| Tetrachlorometaxylene [2C]   | 7.7385                | 66.9       | 30 - 160        | 4.181  | 4.219666            | -0.0387 | +/-0.1        |     |
| <b>23A0179-09 (Solid)</b> Lab File ID: 23020940.D Analyzed: 02/10/23 07:07   |                       |            |                 |        |                     |         |               |     |
| Decachlorobiphenyl   | 7.9919                | 104        | 30 - 160        | 9.306  | 9.354666            | -0.0487 | +/-0.1        |     |
| Decachlorobiphenyl [2C]  | 7.9919                | 95.5       | 30 - 160        | 10.402 | 10.4655             | -0.0635 | +/-0.1        |     |
| Tetrachlorometaxylene  | 7.9919                | 71.3       | 30 - 160        | 3.789  | 3.827833            | -0.0388 | +/-0.1        |     |
| Tetrachlorometaxylene [2C]   | 7.9919                | 73.3       | 30 - 160        | 4.18   | 4.219666            | -0.0397 | +/-0.1        |     |
| <b>23A0179-10 (Solid)</b> Lab File ID: 23020941.D Analyzed: 02/10/23 07:25   |                       |            |                 |        |                     |         |               |     |
| Decachlorobiphenyl   | 7.7526                | 122        | 30 - 160        | 9.306  | 9.354666            | -0.0487 | +/-0.1        |     |
| Decachlorobiphenyl [2C]  | 7.7526                |            | 30 - 160        | 10.402 | 10.4655             | -0.0635 | +/-0.1        | NRS |
| Tetrachlorometaxylene  | 7.7526                | 64.5       | 30 - 160        | 3.79   | 3.827833            | -0.0378 | +/-0.1        |     |
| Tetrachlorometaxylene [2C]   | 7.7526                | 74.3       | 30 - 160        | 4.181  | 4.219666            | -0.0387 | +/-0.1        |     |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8081B**

Laboratory: Analytical Resources, LLC

SDG/WO: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0156

Instrument: ECD6

Calibration: FL00041

Calibration Date: 12/15/2022

| Surrogate Compound          | Spike Level ug/kg dry | % Recovery              | Recovery Limits | RT     | Calibration Mean RT      | RT Diff | RT Diff Limit | Q |
|-----------------------------|-----------------------|-------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| <b>23A0179-11 (Solid)</b>   |                       | Lab File ID: 23020942.D |                 |        | Analyzed: 02/10/23 07:43 |         |               |   |
| Decachlorobiphenyl          | 7.9877                | 100                     | 30 - 160        | 9.307  | 9.354666                 | -0.0477 | +/-0.1        |   |
| Decachlorobiphenyl [2C]     | 7.9877                | 98.8                    | 30 - 160        | 10.402 | 10.4655                  | -0.0635 | +/-0.1        |   |
| Tetrachlorometaxylene       | 7.9877                | 64.1                    | 30 - 160        | 3.789  | 3.827833                 | -0.0388 | +/-0.1        |   |
| Tetrachlorometaxylene [2C]  | 7.9877                | 62.0                    | 30 - 160        | 4.18   | 4.219666                 | -0.0397 | +/-0.1        |   |
| <b>23A0179-12 (Solid)</b>   |                       | Lab File ID: 23020943.D |                 |        | Analyzed: 02/10/23 08:01 |         |               |   |
| Decachlorobiphenyl          | 7.9935                | 100                     | 30 - 160        | 9.307  | 9.354666                 | -0.0477 | +/-0.1        |   |
| Decachlorobiphenyl [2C]     | 7.9935                | 95.1                    | 30 - 160        | 10.403 | 10.4655                  | -0.0625 | +/-0.1        |   |
| Tetrachlorometaxylene       | 7.9935                | 68.0                    | 30 - 160        | 3.789  | 3.827833                 | -0.0388 | +/-0.1        |   |
| Tetrachlorometaxylene [2C]  | 7.9935                | 67.1                    | 30 - 160        | 4.18   | 4.219666                 | -0.0397 | +/-0.1        |   |
| <b>SLB0156-CCV3 (Solid)</b> |                       | Lab File ID: 23020949.D |                 |        | Analyzed: 02/10/23 09:48 |         |               |   |
| Decachlorobiphenyl          | 40.000                | 101                     | 80 - 120        | 9.307  | 9.354666                 | -0.0477 | +/-0.1        |   |
| Decachlorobiphenyl [2C]     | 40.000                | 97.7                    | 80 - 120        | 10.403 | 10.4655                  | -0.0625 | +/-0.1        |   |
| Tetrachlorometaxylene       | 40.000                | 95.3                    | 80 - 120        | 3.791  | 3.827833                 | -0.0368 | +/-0.1        |   |
| Tetrachlorometaxylene [2C]  | 40.000                | 105                     | 80 - 120        | 4.182  | 4.219666                 | -0.0377 | +/-0.1        |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8081B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SKL0233

Instrument: ECD6

Calibration: FL00041

| Internal Standard                      | Response | RT      | Reference Response      | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|--|----------|---------|-------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Performance Mix (SKL0233-PEM1 )</b> |          | (Water) | Lab File ID: 22121404.D |              |        | Analyzed: 12/14/22 20:20 |         |               |   |
| 1-Bromo-2-Nitrobenzene                 | 683485   | 3.15    | 672426                  | 3.15         | 102    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                      | 619012   | 9.503   | 609723                  | 9.504        | 102    | 50 - 200                 | -0.001  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]            | 1005375  | 3.35    | 1006482                 | 3.35         | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                 | 772586   | 11.054  | 769764                  | 11.053       | 100    | 50 - 200                 | 0.001   | +/-0.50       |   |





**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8081B**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLB0156

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: ECD6  
Calibration: FL00041

| Internal Standard                       | Response | RT      | Reference Response      | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|---|----------|---------|-------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Initial Cal Check (SLB0156-ICV1)</b> |          | (Solid) | Lab File ID: 23020903.D |              |        | Analyzed: 02/09/23 20:06 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 705237   | 3.119   | 705237                  | 3.119        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                       | 627685   | 9.457   | 627685                  | 9.457        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 1101002  | 3.319   | 1101002                 | 3.319        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 776135   | 10.984  | 776135                  | 10.984       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>Blank (BLA0556-BLK1)</b>             |          | (Solid) | Lab File ID: 23020925.D |              |        | Analyzed: 02/10/23 02:39 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 802874   | 3.118   | 705237                  | 3.119        | 114    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl                       | 614530   | 9.454   | 627685                  | 9.457        | 98     | 50 - 200                 | -0.003  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 1252661  | 3.319   | 1101002                 | 3.319        | 114    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 740787   | 10.982  | 776135                  | 10.984       | 95     | 50 - 200                 | -0.002  | +/-0.50       |   |
| <b>LCS (BLA0556-BS1)</b>                |          | (Solid) | Lab File ID: 23020926.D |              |        | Analyzed: 02/10/23 02:57 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 842752   | 3.119   | 705237                  | 3.119        | 119    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                       | 658929   | 9.454   | 627685                  | 9.457        | 105    | 50 - 200                 | -0.003  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 1368797  | 3.319   | 1101002                 | 3.319        | 124    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 784600   | 10.982  | 776135                  | 10.984       | 101    | 50 - 200                 | -0.002  | +/-0.50       |   |
| <b>LCS Dup (BLA0556-BSD1)</b>           |          | (Solid) | Lab File ID: 23020927.D |              |        | Analyzed: 02/10/23 03:15 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 883445   | 3.119   | 705237                  | 3.119        | 125    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                       | 727664   | 9.453   | 627685                  | 9.457        | 116    | 50 - 200                 | -0.004  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 1441193  | 3.319   | 1101002                 | 3.319        | 131    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 829281   | 10.981  | 776135                  | 10.984       | 107    | 50 - 200                 | -0.003  | +/-0.50       |   |
| <b>Matrix Spike (BLA0556-MS1)</b>       |          | (Solid) | Lab File ID: 23020928.D |              |        | Analyzed: 02/10/23 03:33 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 893167   | 3.118   | 705237                  | 3.119        | 127    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl                       | 691270   | 9.453   | 627685                  | 9.457        | 110    | 50 - 200                 | -0.004  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 1366890  | 3.319   | 1101002                 | 3.319        | 124    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 874548   | 10.982  | 776135                  | 10.984       | 113    | 50 - 200                 | -0.002  | +/-0.50       |   |
| <b>Matrix Spike Dup (BLA0556-MSD1)</b>  |          | (Solid) | Lab File ID: 23020929.D |              |        | Analyzed: 02/10/23 03:51 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 909299   | 3.118   | 705237                  | 3.119        | 129    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl                       | 685650   | 9.454   | 627685                  | 9.457        | 109    | 50 - 200                 | -0.003  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 1355508  | 3.319   | 1101002                 | 3.319        | 123    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 842448   | 10.981  | 776135                  | 10.984       | 109    | 50 - 200                 | -0.003  | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8081B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0156

Instrument: ECD6

Calibration: FL00041

| Internal Standard                 | Response | RT      | Reference Response      | Reference RT | Area %                   | Area % Limits | RT Diff | RT Diff Limit | Q |
|-----------------------------------|----------|---------|-------------------------|--------------|--------------------------|---------------|---------|---------------|---|
| <b>LDW23-SS1277 (23A0179-01 )</b> |          | (Solid) | Lab File ID: 23020930.D |              | Analyzed: 02/10/23 04:09 |               |         |               |   |
| 1-Bromo-2-Nitrobenzene            | 932286   | 3.118   | 705237                  | 3.119        | 132                      | 50 - 200      | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl                 | 701428   | 9.454   | 627685                  | 9.457        | 112                      | 50 - 200      | -0.003  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]       | 1358249  | 3.319   | 1101002                 | 3.319        | 123                      | 50 - 200      | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]            | 890242   | 10.982  | 776135                  | 10.984       | 115                      | 50 - 200      | -0.002  | +/-0.50       |   |
| <b>LDW23-SS1271 (23A0179-02 )</b> |          | (Solid) | Lab File ID: 23020931.D |              | Analyzed: 02/10/23 04:26 |               |         |               |   |
| 1-Bromo-2-Nitrobenzene            | 886831   | 3.118   | 705237                  | 3.119        | 126                      | 50 - 200      | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl                 | 699224   | 9.454   | 627685                  | 9.457        | 111                      | 50 - 200      | -0.003  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]       | 1383776  | 3.319   | 1101002                 | 3.319        | 126                      | 50 - 200      | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]            | 897537   | 10.981  | 776135                  | 10.984       | 116                      | 50 - 200      | -0.003  | +/-0.50       |   |
| <b>LDW23-SS1266 (23A0179-03 )</b> |          | (Solid) | Lab File ID: 23020932.D |              | Analyzed: 02/10/23 04:44 |               |         |               |   |
| 1-Bromo-2-Nitrobenzene            | 921120   | 3.118   | 705237                  | 3.119        | 131                      | 50 - 200      | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl                 | 713279   | 9.455   | 627685                  | 9.457        | 114                      | 50 - 200      | -0.002  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]       | 1425237  | 3.319   | 1101002                 | 3.319        | 129                      | 50 - 200      | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]            | 918593   | 10.982  | 776135                  | 10.984       | 118                      | 50 - 200      | -0.002  | +/-0.50       |   |
| <b>LDW23-SS1248 (23A0179-04 )</b> |          | (Solid) | Lab File ID: 23020933.D |              | Analyzed: 02/10/23 05:02 |               |         |               |   |
| 1-Bromo-2-Nitrobenzene            | 935539   | 3.118   | 705237                  | 3.119        | 133                      | 50 - 200      | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl                 | 678609   | 9.455   | 627685                  | 9.457        | 108                      | 50 - 200      | -0.002  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]       | 1332840  | 3.319   | 1101002                 | 3.319        | 121                      | 50 - 200      | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]            | 878184   | 10.982  | 776135                  | 10.984       | 113                      | 50 - 200      | -0.002  | +/-0.50       |   |
| <b>LDW23-SS1239 (23A0179-05 )</b> |          | (Solid) | Lab File ID: 23020934.D |              | Analyzed: 02/10/23 05:20 |               |         |               |   |
| 1-Bromo-2-Nitrobenzene            | 909681   | 3.118   | 705237                  | 3.119        | 129                      | 50 - 200      | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl                 | 692451   | 9.453   | 627685                  | 9.457        | 110                      | 50 - 200      | -0.004  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]       | 1407346  | 3.319   | 1101002                 | 3.319        | 128                      | 50 - 200      | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]            | 891424   | 10.981  | 776135                  | 10.984       | 115                      | 50 - 200      | -0.003  | +/-0.50       |   |
| <b>LDW23-SS1213 (23A0179-06 )</b> |          | (Solid) | Lab File ID: 23020935.D |              | Analyzed: 02/10/23 05:38 |               |         |               |   |
| 1-Bromo-2-Nitrobenzene            | 935228   | 3.118   | 705237                  | 3.119        | 133                      | 50 - 200      | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl                 | 713832   | 9.455   | 627685                  | 9.457        | 114                      | 50 - 200      | -0.002  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]       | 1369832  | 3.318   | 1101002                 | 3.319        | 124                      | 50 - 200      | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl [2C]            | 917054   | 10.981  | 776135                  | 10.984       | 118                      | 50 - 200      | -0.003  | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8081B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0156

Instrument: ECD6

Calibration: FL00041

| Internal Standard                 | Response | RT      | Reference Response      | Reference RT | Area %                   | Area % Limits | RT Diff | RT Diff Limit | Q |
|-----------------------------------|----------|---------|-------------------------|--------------|--------------------------|---------------|---------|---------------|---|
| <b>LDW23-SS1200 (23A0179-07 )</b> |          | (Solid) | Lab File ID: 23020938.D |              | Analyzed: 02/10/23 06:32 |               |         |               |   |
| 1-Bromo-2-Nitrobenzene            | 920883   | 3.118   | 705237                  | 3.119        | 131                      | 50 - 200      | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl                 | 724642   | 9.453   | 627685                  | 9.457        | 115                      | 50 - 200      | -0.004  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]       | 1444108  | 3.318   | 1101002                 | 3.319        | 131                      | 50 - 200      | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl [2C]            | 936547   | 10.981  | 776135                  | 10.984       | 121                      | 50 - 200      | -0.003  | +/-0.50       |   |
| <b>LDW23-SS1178 (23A0179-08 )</b> |          | (Solid) | Lab File ID: 23020939.D |              | Analyzed: 02/10/23 06:49 |               |         |               |   |
| 1-Bromo-2-Nitrobenzene            | 870981   | 3.118   | 705237                  | 3.119        | 124                      | 50 - 200      | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl                 | 709017   | 9.454   | 627685                  | 9.457        | 113                      | 50 - 200      | -0.003  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]       | 1332115  | 3.318   | 1101002                 | 3.319        | 121                      | 50 - 200      | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl [2C]            | 913252   | 10.981  | 776135                  | 10.984       | 118                      | 50 - 200      | -0.003  | +/-0.50       |   |
| <b>LDW23-SS1171 (23A0179-09 )</b> |          | (Solid) | Lab File ID: 23020940.D |              | Analyzed: 02/10/23 07:07 |               |         |               |   |
| 1-Bromo-2-Nitrobenzene            | 883446   | 3.118   | 705237                  | 3.119        | 125                      | 50 - 200      | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl                 | 716467   | 9.455   | 627685                  | 9.457        | 114                      | 50 - 200      | -0.002  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]       | 1320252  | 3.318   | 1101002                 | 3.319        | 120                      | 50 - 200      | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl [2C]            | 916282   | 10.982  | 776135                  | 10.984       | 118                      | 50 - 200      | -0.002  | +/-0.50       |   |
| <b>LDW23-SS1112 (23A0179-10 )</b> |          | (Solid) | Lab File ID: 23020941.D |              | Analyzed: 02/10/23 07:25 |               |         |               |   |
| 1-Bromo-2-Nitrobenzene            | 951252   | 3.118   | 705237                  | 3.119        | 135                      | 50 - 200      | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl                 | 739487   | 9.456   | 627685                  | 9.457        | 118                      | 50 - 200      | -0.001  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]       | 1375982  | 3.318   | 1101002                 | 3.319        | 125                      | 50 - 200      | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl [2C]            | 1184363  | 10.982  | 776135                  | 10.984       | 153                      | 50 - 200      | -0.002  | +/-0.50       |   |
| <b>LDW23-SS1039 (23A0179-11 )</b> |          | (Solid) | Lab File ID: 23020942.D |              | Analyzed: 02/10/23 07:43 |               |         |               |   |
| 1-Bromo-2-Nitrobenzene            | 885720   | 3.118   | 705237                  | 3.119        | 126                      | 50 - 200      | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl                 | 741976   | 9.457   | 627685                  | 9.457        | 118                      | 50 - 200      | 0.000   | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]       | 1334184  | 3.318   | 1101002                 | 3.319        | 121                      | 50 - 200      | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl [2C]            | 1044567  | 10.983  | 776135                  | 10.984       | 135                      | 50 - 200      | -0.001  | +/-0.50       |   |
| <b>LDW23-SS1007 (23A0179-12 )</b> |          | (Solid) | Lab File ID: 23020943.D |              | Analyzed: 02/10/23 08:01 |               |         |               |   |
| 1-Bromo-2-Nitrobenzene            | 890543   | 3.118   | 705237                  | 3.119        | 126                      | 50 - 200      | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl                 | 706687   | 9.456   | 627685                  | 9.457        | 113                      | 50 - 200      | -0.001  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]       | 1349744  | 3.318   | 1101002                 | 3.319        | 123                      | 50 - 200      | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl [2C]            | 901339   | 10.983  | 776135                  | 10.984       | 116                      | 50 - 200      | -0.001  | +/-0.50       |   |



## HOLDING TIME SUMMARY

**Analysis: EPA 8081B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

| Sample Name                      | Date Collected    | Date Received     | Date Prepared     | Days to Prep | Max Days to Prep | Date Analyzed     | Days to Analysis | Max Days to Analysis | Q |
|----------------------------------|-------------------|-------------------|-------------------|--------------|------------------|-------------------|------------------|----------------------|---|
| LDW23-SS1277<br>23A0179-01       | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 01/26/23<br>12:35 | 16           | 365              | 02/10/23<br>04:09 | 15               | 40                   |   |
| LDW23-SS1271<br>23A0179-02       | 01/10/23<br>08:43 | 01/10/23<br>17:10 | 01/26/23<br>12:35 | 16           | 365              | 02/10/23<br>04:26 | 15               | 40                   |   |
| LDW23-SS1266<br>23A0179-03       | 01/10/23<br>09:04 | 01/10/23<br>17:10 | 01/26/23<br>12:35 | 16           | 365              | 02/10/23<br>04:44 | 15               | 40                   |   |
| LDW23-SS1248<br>23A0179-04       | 01/10/23<br>09:20 | 01/10/23<br>17:10 | 01/26/23<br>12:35 | 16           | 365              | 02/10/23<br>05:02 | 15               | 40                   |   |
| LDW23-SS1239<br>23A0179-05       | 01/10/23<br>09:35 | 01/10/23<br>17:10 | 01/26/23<br>12:35 | 16           | 365              | 02/10/23<br>05:20 | 15               | 40                   |   |
| LDW23-SS1213<br>23A0179-06       | 01/10/23<br>09:54 | 01/10/23<br>17:10 | 01/26/23<br>12:35 | 16           | 365              | 02/10/23<br>05:38 | 15               | 40                   |   |
| LDW23-SS1200<br>23A0179-07       | 01/10/23<br>10:10 | 01/10/23<br>17:10 | 01/26/23<br>12:35 | 16           | 365              | 02/10/23<br>06:32 | 15               | 40                   |   |
| LDW23-SS1178<br>23A0179-08       | 01/10/23<br>10:56 | 01/10/23<br>17:10 | 01/26/23<br>12:35 | 16           | 365              | 02/10/23<br>06:49 | 15               | 40                   |   |
| LDW23-SS1171<br>23A0179-09       | 01/10/23<br>11:08 | 01/10/23<br>17:10 | 01/26/23<br>12:35 | 16           | 365              | 02/10/23<br>07:07 | 15               | 40                   |   |
| LDW23-SS1112<br>23A0179-10       | 01/10/23<br>11:28 | 01/10/23<br>17:10 | 01/26/23<br>12:35 | 16           | 365              | 02/10/23<br>07:25 | 15               | 40                   |   |
| LDW23-SS1039<br>23A0179-11       | 01/10/23<br>11:56 | 01/10/23<br>17:10 | 01/26/23<br>12:35 | 16           | 365              | 02/10/23<br>07:43 | 15               | 40                   |   |
| LDW23-SS1007<br>23A0179-12       | 01/10/23<br>12:48 | 01/10/23<br>17:10 | 01/26/23<br>12:35 | 15           | 365              | 02/10/23<br>08:01 | 15               | 40                   |   |
| Matrix Spike<br>BLA0556-MS1      | 01/10/23<br>10:10 | 01/10/23<br>17:10 | 01/26/23<br>12:35 | 16           | 365              | 02/10/23<br>03:33 | 15               | 40                   |   |
| Matrix Spike Dup<br>BLA0556-MSD1 | 01/10/23<br>10:10 | 01/10/23<br>17:10 | 01/26/23<br>12:35 | 16           | 365              | 02/10/23<br>03:51 | 15               | 40                   |   |

\* Indicates hold time exceedance.



**METHOD DETECTION  
AND REPORTING LIMITS**

**EPA 8081B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Instrument: ECD6

| <b>Analyte</b>         | <b>MDL</b> | <b>RL</b> | <b>Units</b> |
|------------------------|------------|-----------|--------------|
| Hexachlorobenzene      | 0.15       | 0.50      | ug/kg        |
| Hexachlorobenzene [2C] | 0.15       | 0.50      | ug/kg        |

# CERTIFICATE OF ANALYSIS

**Catalog No:** S-279N  
**Description:** Tetrachloro-m-xylene  
**Lot:** 0052481B-1  
**Solvent:** N/A  
**Hazards:** Refer to SDS for complete safety information

**Date Certified:** Jul 28, 2005  
**Expiration:** Jul 28, 2015  
**Sample Size:** 100 mg  
**Components:** 1  
**Storage Condition:** Ambient (>5 °C)



Signal Word: Warning

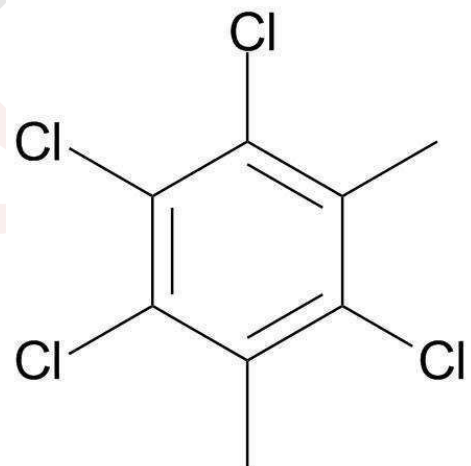
Certified Reference Material



| Component               | CAS #    | Purity %<br>(GC/FID) | Prepared<br>Concentration | Certified Analyte<br>Concentration <sup>1</sup> |
|-------------------------|----------|----------------------|---------------------------|---|
| Tetrachloro-meta-xylene | 877-09-8 | 96.0                 | N/A                       | N/A   |

**Identification:**

Molecular formula: C<sub>8</sub>H<sub>6</sub>Cl<sub>4</sub>  
Molecular weight: 243.94



**C000147**

tetrachlorometaxylene

Expires 1/15/2020

Prepared By Joshua Rains 1/15/2014

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>1</sup> The Uncertainty calculated for this product is ±2.4%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Metrological traceability is established through in-house validated methods.

Purity, if stated, is equal to 100% minus found impurity components. Impurity components have not been identified.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:

Larry Decker, Organic QC Manager



# AccuStandard

125 Market Street  
New Haven, CT 06513  
(203) 786-5290

## CERTIFICATE OF PRODUCT DATA

PRODUCT: C-209N

EXPIRATION: Jul 28, 2015

DESCRIPTION: 2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl

LOT #: 990521LB-AC

SOLVENT: N/A

This product is guaranteed accurate to  $\pm 0.5\%$  of the Certified Analyte concentration through the Expiration Date on the Label.

| Component                                   | CAS #     | Purity %<br>(GC/MS) | Prepared Concentration <sup>1</sup> | Certified Analyte Concentration <sup>2</sup> |
|---|-----------|---------------------|-------------------------------------|--|
| 2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl | 2051-24-3 | 100                 | N/A                                 | N/A  |

2;

**C000148**

decachlorobiphenyl

Expires 1/15/2020

Prepared By Joshua Rains 1/15/2014

*\* I 1768 A*

Certified by:

*R. Cooper*

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

A comma (,) is used to separate units of one-thousand or greater.  
A period (.) is used as a decimal place marker.

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/254480  
 2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is  $\pm 0.5\%$  which is the Combined Uncertainty  $U_c(y)$ . It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is  $U$  which is  $U_c(y) * K$  where  $K$  is the coverage factor at the 95% confidence level ( $K=2$ ).  
 3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

This product was manufactured in accordance to quality system requirements of ISO 9001:2000 and ISO 17025

*\* Recertified ~ 4-6-09 (S)*



**Analytical Standard Record**  
**Standard ID: C000148**

Printed: 4/23/2015 11:54:44AM

|                     |                    |              |                          |
|---------------------|--------------------|--------------|--------------------------|
| Description:        | decachlorobiphenyl | Expires:     | 15-Jan-2020              |
| Standard Type:      | Other              | Prepared:    | 15-Jan-2014              |
| Solvent:            | na/a               | Prepared By: | Joshua Rains             |
| Final Volume (mls): | 1                  | Department:  | Organics                 |
| Vials:              | 1                  | Last Edit:   | 27-Feb-2015 13:03 by JGR |
| Vendor:             | Accustandard       | Lot #:       | 9905211b-ac              |
| Vendor Catalog #:   |                    |              |                          |

**Comments**

see i1768a  
SOM calibrations added 06/12/14 sdrd

| Analyte                 | CAS Number | Concentration | Units |
|-------------------------|------------|---------------|-------|
| Decachlorobiphenyl [2C] | 2051-24-3  | 1000000       | ug/mL |
| Decachlorobiphenyl      | 2051-24-3  | 1000000       | ug/mL |
| DCB 1660 [2C]           | 2051-24-3  | 1000000       | ug/mL |
| DCB 1660                | 2051-24-3  | 1000000       | ug/mL |
| DCB [2C]                | 2051-24-3  | 1000000       | ug/mL |
| DCB (A) [2C]            | 2051-24-3  | 1000000       | ug/mL |
| DCB (A)                 | 2051-24-3  | 1000000       | ug/mL |
| DCB                     | 2051-24-3  | 1000000       | ug/mL |

Reviewed By

Date





# CERTIFICATE OF ANALYSIS

**Catalog No:** P-066S  
**Description:** Mirex  
**Lot:** 219051741-01  
**Solvent:** Methanol  
**Hazards:** Refer to SDS for complete safety information

**Date Certified:** Jun 5, 2020  
**Expiration:** Jun 5, 2024  
**Sample Size:** 1 mL  
**Components:** 1  
**Storage Condition:** Ambient (>5 °C)



Signal Word: Danger

## Certified Reference Material



| Component | CAS #     | Purity %<br>(GC/MS) | Prepared Concentration <sup>2</sup><br>(µg/mL) | Certified Analyte Concentration <sup>1</sup><br>(µg/mL) |
|-----------|-----------|---------------------|--|---|
| Mirex     | 2385-85-5 | 98.2                | 100.2  | 98.4  |



**1007970**

Mirex 2d source  
Solvent / Lot: MeOH  
Prep: 9/7/2020 by JR  
Exp: 6/5/2024  
Location:

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>2</sup> All weights are traceable through NIST, Test No. 684/289871-17

<sup>1</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is  $\pm 2.4\%$ . This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

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Certified By:

Larry Decker, Organic QC Manager

# CERTIFICATE OF ANALYSIS

**Catalog No:** P-026S  
**Description:** o,p'-DDE  
**Lot:** 218021093-01  
**Solvent:** Methanol  
**Hazards:** Refer to SDS for complete safety information

**Date Certified:** Feb 10, 2020  
**Expiration:** Feb 10, 2023  
**Sample Size:** 1 mL  
**Components:** 1  
**Storage Condition:** Ambient (>5 °C)



Signal Word: Danger

## Certified Reference Material



| Component | CAS #     | Purity % | Prepared Concentration <sup>2</sup> | Certified Analyte Concentration <sup>1</sup> |
|-----------|-----------|----------|-------------------------------------|--|
|           |           | (GC/MS)  | (µg/mL)                             | (µg/mL)                                      |
| o,p'-DDE  | 3424-82-6 | 99.9     | 100.4                               | 100.3  |

I7971

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>2</sup> All weights are traceable through NIST, Test No. 822-275872-11

<sup>1</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

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Certified By:

Larry Decker, Organic QC Manager

# CERTIFICATE OF ANALYSIS

**Catalog No:** P-184S  
**Description:** trans-Nonachlor  
**Lot:** 218011470  
**Solvent:** Methanol  
**Hazards:** Refer to SDS for complete safety information

**Date Certified:** Jan 30, 2018  
**Expiration:** Jan 30, 2028  
**Sample Size:** 1 mL  
**Components:** 1  
**Storage Condition:** Ambient (>5 °C)



Signal Word: Danger

### Certified Reference Material



| Component       | CAS #      | Purity %<br>(GC/MS) | Prepared<br>Concentration <sup>2</sup><br>(µg/mL) | Certified Analyte<br>Concentration <sup>1</sup><br>(µg/mL) |
|-----------------|------------|---------------------|---|--|
| trans-Nonachlor | 39765-80-5 | 99.0                | 100.2   | 99.2   |

I 7974

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.


<sup>2</sup> All weights are traceable through NIST, Test No. 822-275872-11

<sup>1</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is  $\pm 2.4\%$ . This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

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Certified By:   
Larry Decker, Organic QC Manager

# CERTIFICATE OF ANALYSIS

**Catalog No:** P-024S  
**Description:** o,p'-DDD  
**Lot:** 220051307  
**Solvent:** Methanol  
**Hazards:** Refer to SDS for complete safety information

**Date Certified:** May 27, 2020  
**Expiration:** Jun 27, 2022  
**Sample Size:** 1 mL  
**Components:** 1  
**Storage Condition:** Ambient (>5 °C)



## Certified Reference Material



| Component | CAS #   | Purity %<br>(GC/MS) | Prepared<br>Concentration <sup>2</sup><br>(µg/mL) | Certified Analyte<br>Concentration <sup>1</sup><br>(µg/mL) |
|-----------|---------|---------------------|---|--|
| o,p'-DDD  | 53-19-0 | 100.0               | 100.2   | 100.2  |



**I010773**

o,p'-DDD  
Solvent / Lot: methanol  
Prep: 11/20/2020 by VS  
Exp: 6/27/2022  
Location:

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>2</sup> All weights are traceable through NIST, Test No. 684/289871-17

<sup>1</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is  $\pm 2.4\%$ . This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Certified By:   
Larry Decker, Organic QC Manager

**1. Quality Standards:**

ISO 17034 – General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories ANAB Certificate Number AT-1339

ISO 9001:2015 – Quality Management System – Requirements  
Eagle Registrations Certificate Number 3774

**2 Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7

**3 Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this

**4 Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

**5 Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

**6 Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula:  $u_a = \sqrt{(u(V))^2 + (u(m))^2 + (u(IV))^2 + (u(RO))^2}$  This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

**7 Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.



# CERTIFICATE OF ANALYSIS

**Catalog No:** P-331S  
**Description:** Oxychlordane Isomer  
**Lot:** 218101131  
**Solvent:** Methanol  
**Hazards:** Refer to SDS for complete safety information

**Date Certified:** Oct 8, 2018  
**Expiration:** Nov 8, 2020  
**Sample Size:** 1 mL  
**Components:** 1  
**Storage Condition:** Ambient (>5 °C)



Signal Word: Danger

## Certified Reference Material



| Component           | CAS #      | Purity %<br>(GC/MS) | Prepared<br>Concentration <sup>2</sup><br>(µg/mL) | Certified Analyte<br>Concentration <sup>1</sup><br>(µg/mL) |
|---------------------|------------|---------------------|---|--|
| Oxychlordane Isomer | 27304-13-8 | 97.7                | 102.4*  | 100.0  |



### I010795

Oxychlordane isomer  
Solvent / Lot: methanol  
Prep: 11/20/2020 by VS  
Exp: 6/20/2022  
Location:

\* Weight compensated to 100% purity.

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.


<sup>2</sup> All weights are traceable through NIST, Test No. 684/289871-17

<sup>1</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is  $\pm 2.4\%$ . This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Certified By:   
Larry Decker, Organic QC Manager

**1. Quality Standards:**

ISO 17034 – General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

ISO/IEC 17025 – General Requirements for the Competence of Testing And Calibration Laboratories ANAB Certificate Number AT-1339

ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations Certificate Number 3774

**2 Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7

**3 Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this CRM.

**4 Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

**5 Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

**6 Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula:  $u_a = \sqrt{(u(V))^2 + (u(m))^2 + (u(IV))^2 + (u(RO))^2}$  This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

**7 Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

# CERTIFICATE OF ANALYSIS

**Catalog No:** P-297S  
**Description:** cis-Nonachlor  
**Lot:** 217121240  
**Solvent:** Methanol  
**Hazards:** Refer to SDS for complete safety information

**Date Certified:** Dec 13, 2017  
**Expiration:** Dec 13, 2020  
**Sample Size:** 1 mL  
**Components:** 1  
**Storage Condition:** Ambient (>5 °C)



## Certified Reference Material



| Component     | CAS #     | Purity %<br>(GC/MS) | Prepared<br>Concentration <sup>1</sup><br>(µg/mL) | Certified Analyte<br>Concentration <sup>2</sup><br>(µg/mL) |
|---------------|-----------|---------------------|---|--|
| cis-Nonachlor | 5103-73-1 | 98.6                | 100.4   | 99.0   |



**I010796**

cis-Nonochlor-Accustd-100ug/ml

Solvent / Lot: methanol

Prep: 11/20/2020 by VS

Exp: 11/27/2022

Location:

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>1</sup> All weights are traceable through NIST, Test No. 822-275872-11

<sup>2</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is  $\pm 2.4\%$ . This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Certified By:   
Larry Decker, Organic QC Manager



## 1. Quality Standards:

ISO 17034 – General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

ISO/IEC 17025 – General Requirements for the Competence of Testing And Calibration Laboratories ANAB Certificate Number AT-1339

ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations Certificate Number 3774

2. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 11.
3. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this CRM.
4. **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.
5. **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label
6. **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula:  $u_a = \sqrt{(u(V))^2 + (u(m))^2 + (u(IV))^2 + (u(RO))^2}$  This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.
7. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

# CERTIFICATE OF ANALYSIS

**Catalog No:** APP-9-112-D-20X  
**Description:** Hexachlorobenzene in Dichloromethane  
**Lot:** 219051389  
**Solvent:** Dichloromethane  
**Hazards:** Refer to SDS for complete safety information

**Date Certified:** May 13, 2019  
**Expiration:** May 13, 2029  
**Sample Size:** 1 mL  
**Components:** 1  
**Storage Condition:** Ambient (>5 °C)



### Certified Reference Material



| Component         | CAS #    | Purity %<br>(GC/MS) | Prepared Concentration <sup>2</sup><br>(µg/mL) | Certified Analyte Concentration <sup>1</sup><br>(µg/mL) |
|-------------------|----------|---------------------|--|---|
| Hexachlorobenzene | 118-74-1 | 99.0                | 2002   | 1982  |



### J006504

Hexachlorobenzene  
Solvent / Lot: Dichloromethane  
Prep: 6/21/2021 by YZ  
Exp: 5/13/2029  
Location:

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>2</sup> All weights are traceable through NIST, Test No. 684/289871-17

<sup>1</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is  $\pm 2.4\%$ . This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Certified By:   
Larry Decker, Organic QC Manager

**1. Quality Standards:**

ISO 17034 – General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

ISO/IEC 17025 – General Requirements for the Competence of Testing And Calibration Laboratories ANAB Certificate Number AT-1339

ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations Certificate Number 3774

**2 Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7

**3 Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this

**4 Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

**5 Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

**6 Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula:  $u_a = \sqrt{(u(V))^2 + (u(m))^2 + (u(IV))^2 + (u(RO))^2}$  This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

**7 Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

# CERTIFICATE OF ANALYSIS

**Catalog No:** P-028S  
**Description:** o,p'-DDT  
**Lot:** 221071322  
**Solvent:** Methanol  
**Hazards:** Refer to SDS for complete safety information

**Date Certified:** Jul 21, 2021  
**Expiration:** Aug 21, 2023  
**Sample Size:** 1 mL  
**Components:** 1  
**Storage Condition:** Ambient (>5 °C)



## Certified Reference Material



| Component | CAS #    | Purity %<br>(GC/MS) | Prepared<br>Concentration <sup>2</sup><br>(µg/mL) | Certified Analyte<br>Concentration <sup>1</sup><br>(µg/mL) |
|-----------|----------|---------------------|---|--|
| o,p'-DDT  | 789-02-6 | 99.9                | 100.1   | 100.0  |

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>2</sup> All weights are traceable through NIST, Test No. 684/289871-17

<sup>1</sup> Certified Analyte Concentration = Purity x Prepared Concentration.


The Uncertainty associated with the certified concentration reported on this certificate is  $\pm 2.4\%$ . This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:   
Larry Decker, Organic QC Manager

**1. Quality Standards:**

ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers

ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories

ISO 9001:2015 – Quality Management System – Requirements  
Eagle Registrations

- 2. Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.
- 3. Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.
- 4. Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.
- 5. Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label
- 6. Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula:  $u_a = \sqrt{(u(V))^2 + (u(m))^2 + (u(IV))^2 + (u(RO))^2}$  This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of  $k=2$  is chosen using approximately a 95% confidence level.
- 7. Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

# CERTIFICATE OF ANALYSIS

Catalog No: P-024S  
Description: o,p'-DDD  
Lot: 220051307-01  
Solvent: Methanol  
Hazards: Refer to SDS for complete safety information

Date Certified: Jul 6, 2021  
Expiration: Aug 6, 2023  
Sample Size: 1 mL  
Components: 1  
Storage Condition: Ambient (>5 °C)



Signal Word: Danger

Certified Reference Material



| Component | CAS #   | Purity %<br>(GC/MS) | Prepared<br>Concentration <sup>2</sup><br>(µg/mL) | Certified Analyte<br>Concentration <sup>1</sup><br>(µg/mL) |
|-----------|---------|---------------------|---|--|
| o,p'-DDD  | 53-19-0 | 100.0               | 100.2   | 100.2  |

K 0448

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>2</sup> All weights are traceable through NIST, Test No. 684/289871-17

<sup>1</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is  $\pm 2.4\%$ . This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:

Larry Decker, Organic QC Manager



# CERTIFICATE OF ANALYSIS

**Catalog No:** P-331S  
**Description:** Oxychlordane Isomer  
**Lot:** 221051706  
**Solvent:** Methanol  
**Hazards:** Refer to SDS for complete safety information

**Date Certified:** May 28, 2021  
**Expiration:** Jun 28, 2023  
**Sample Size:** 1 mL  
**Components:** 1  
**Storage Condition:** Ambient (>5 °C)



Signal Word: Danger

## Certified Reference Material



AR-1463

| Component           | CAS #      | Purity %<br>(GC/MS) | Prepared<br>Concentration <sup>2</sup><br>(µg/mL) | Certified Analyte<br>Concentration <sup>1</sup><br>(µg/mL) |
|---------------------|------------|---------------------|---|--|
| Oxychlordane Isomer | 27304-13-8 | 99.2                | 100.1   | 99.3   |

### K000449

Oxychlordane isomer  
Solvent / Lot: methanol  
Prep: 1/13/2022 by YZ  
Exp: 6/28/2023  
Location:

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>2</sup> All weights are traceable through NIST, Test No. 684/289871-17

<sup>1</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is  $\pm 2.4\%$ . This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:

Larry Decker, Organic QC Manager



**1. Quality Standards:**

ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers

ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories

ISO 9001:2015 – Quality Management System – Requirements  
Eagle Registrations

- 2. Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.
- 3. Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.
- 4. Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.
- 5. Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label
- 6. Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula:  $u_a = \sqrt{(u(V))^2 + (u(m))^2 + (u(IV))^2 + (u(RO))^2}$  This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of  $k=2$  is chosen using approximately a 95% confidence level.
- 7. Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.



# CERTIFICATE OF ANALYSIS

**Catalog No:** P-297S  
**Description:** cis-Nonachlor  
**Lot:** 221041461  
**Solvent:** Methanol  
**Hazards:** Refer to SDS for complete safety information

**Date Certified:** Apr 22, 2021  
**Expiration:** Apr 22, 2024  
**Sample Size:** 1 mL  
**Components:** 1  
**Storage Condition:** Ambient (>5 °C)



Signal Word: Danger

## Certified Reference Material



| Component     | CAS #     | Purity %<br>(GC/MS) | Prepared<br>Concentration <sup>2</sup><br>(µg/mL) | Certified Analyte<br>Concentration <sup>1</sup><br>(µg/mL) |
|---------------|-----------|---------------------|---|--|
| cis-Nonachlor | 5103-73-1 | 98.6                | 101.1   | 99.7   |

K 000450

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>2</sup> All weights are traceable through NIST, Test No. 684/289871-17

<sup>1</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:

Larry Decker, Organic QC Manager

# CERTIFICATE OF ANALYSIS

**Catalog No:** P-184S  
**Description:** trans-Nonachlor  
**Lot:** 220091107  
**Solvent:** Methanol  
**Hazards:** Refer to SDS for complete safety information

**Date Certified:** Sep 11, 2020  
**Expiration:** Sep 11, 2030  
**Sample Size:** 1 mL  
**Components:** 1  
**Storage Condition:** Ambient (>5 °C)



Signal Word: Danger

## Certified Reference Material



| Component       | CAS #      | Purity %<br>(GC/MS) | Prepared<br>Concentration <sup>2</sup><br>(µg/mL) | Certified Analyte<br>Concentration <sup>1</sup><br>(µg/mL) |
|-----------------|------------|---------------------|---|--|
| trans-Nonachlor | 39765-80-5 | 99.0                | 100.2   | 99.2   |

K-00451

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>2</sup> All weights are traceable through NIST, Test No. 684/289871-17

<sup>1</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is  $\pm 2.4\%$ . This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:

Larry Decker, Organic QC Manager



# CERTIFICATE OF ANALYSIS

Catalog No: P-066S  
Description: Mirex  
Lot: 219051741-01  
Solvent: Methanol  
Hazards: Refer to SDS for complete safety information

Date Certified: Jun 5, 2020  
Expiration: Jun 5, 2024  
Sample Size: 1 mL  
Components: 1  
Storage Condition: Ambient (>5 °C)



Signal Word: Danger

Certified Reference Material



| Component | CAS #     | Purity %<br>(GC/MS) | Prepared<br>Concentration <sup>2</sup><br>(µg/mL) | Certified Analyte<br>Concentration <sup>1</sup><br>(µg/mL) |
|-----------|-----------|---------------------|---|--|
| Mirex     | 2385-85-5 | 98.2                | 100.2   | 98.4   |

*K 000952*

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>2</sup> All weights are traceable through NIST, Test No. 684/289871-17

<sup>1</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is  $\pm 2.4\%$ . This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

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Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:

Larry Decker, Organic QC Manager

K 000 452

# CERTIFICATE OF ANALYSIS

Catalog No: P-066S

Description: Mirex

Lot: 221121451

Solvent: Methanol

Hazards: Refer to SDS for complete safety information

Date Certified: Dec 27, 2021

Expiration: Dec 27, 2025

Sample Size: 1 mL

Components: 1

Storage Condition: Ambient (>5 °C)



Signal Word: Danger

Certified Reference Material



| Component | CAS #     | Purity %<br>(GC/MS) | Prepared<br>Concentration <sup>2</sup><br>(µg/mL) | Certified Analyte<br>Concentration <sup>1</sup><br>(µg/mL) |
|-----------|-----------|---------------------|---|--|
| Mirex     | 2385-85-5 | 98.2                | 100.0   | 98.2   |

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>2</sup> All weights are traceable through NIST, Test No. 684/289871-17

<sup>1</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:

Larry Decker, Organic QC Manager



# CERTIFICATE OF ANALYSIS

**Catalog No:** M-8081-DS  
**Description:** 4,4'-DDT & Endrin  
**Lot:** 221031488-04  
**Solvent:** Hexane  
**Hazards:** Refer to SDS for complete safety information

**Date Certified:** Apr 8, 2022  
**Expiration:** May 8, 2023  
**Sample Size:** 1 mL  
**Components:** 2  
**Storage Condition:** Ambient (>5 °C)



Signal Word: Danger

Certified Reference Material



| Component | CAS #   | Purity %<br>(GC/MS) | Prepared<br>Concentration <sup>2</sup><br>(µg/mL) | Certified Analyte<br>Concentration <sup>1</sup><br>(µg/mL) |
|-----------|---------|---------------------|---|--|
| 4,4'-DDT  | 50-29-3 | 100.0               | 200.9   | 200.9  |
| Endrin    | 72-20-8 | 99.8                | 200.0   | 199.6  |

K7002

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>2</sup> All weights are traceable through NIST, Test No. 684/289871-17

<sup>1</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

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Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:

Larry Decker, Organic QC Manager



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 32292 **Lot No.:** A0185477

**Description :** Organochlorine Pesticide Mix AB # 2  
Organochlorine Pesticide Mix AB # 2 8-80 µg/mL, Hexane/Toluene(1:1), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** May 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound                       | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) |        |       |             |
|---------------|--------------------------------|-----------------------------|--------------------------------------|--------|-------|-------------|
| 1             | alpha-BHC                      | 8.1 µg/mL                   | +/-                                  | 0.0660 | µg/mL | Gravimetric |
|               | CAS # 319-84-6 (Lot 12307600)  |                             | +/-                                  | 0.3703 | µg/mL | Unstressed  |
|               | Purity 99%                     |                             | +/-                                  | 0.5325 | µg/mL | Stressed    |
| 2             | gamma-BHC (Lindane)            | 8.0 µg/mL                   | +/-                                  | 0.0654 | µg/mL | Gravimetric |
|               | CAS # 58-89-9 (Lot 13087200)   |                             | +/-                                  | 0.3672 | µg/mL | Unstressed  |
|               | Purity 99%                     |                             | +/-                                  | 0.5281 | µg/mL | Stressed    |
| 3             | beta-BHC                       | 8.1 µg/mL                   | +/-                                  | 0.0660 | µg/mL | Gravimetric |
|               | CAS # 319-85-7 (Lot 0588007-4) |                             | +/-                                  | 0.3703 | µg/mL | Unstressed  |
|               | Purity 99%                     |                             | +/-                                  | 0.5325 | µg/mL | Stressed    |
| 4             | delta-BHC                      | 8.1 µg/mL                   | +/-                                  | 0.0660 | µg/mL | Gravimetric |
|               | CAS # 319-86-8 (Lot 13112400)  |                             | +/-                                  | 0.3703 | µg/mL | Unstressed  |
|               | Purity 99%                     |                             | +/-                                  | 0.5325 | µg/mL | Stressed    |
| 5             | Heptachlor                     | 8.0 µg/mL                   | +/-                                  | 0.0654 | µg/mL | Gravimetric |
|               | CAS # 76-44-8 (Lot 803759)     |                             | +/-                                  | 0.3672 | µg/mL | Unstressed  |
|               | Purity 99%                     |                             | +/-                                  | 0.5281 | µg/mL | Stressed    |
| 6             | Aldrin                         | 8.1 µg/mL                   | +/-                                  | 0.0660 | µg/mL | Gravimetric |
|               | CAS # 309-00-2 (Lot 12983100)  |                             | +/-                                  | 0.3702 | µg/mL | Unstressed  |
|               | Purity 96%                     |                             | +/-                                  | 0.5323 | µg/mL | Stressed    |
| 7             | Heptachlor epoxide (isomer B)  | 8.1 µg/mL                   | +/-                                  | 0.0660 | µg/mL | Gravimetric |
|               | CAS # 1024-57-3 (Lot 13168200) |                             | +/-                                  | 0.3703 | µg/mL | Unstressed  |
|               | Purity 99%                     |                             | +/-                                  | 0.5325 | µg/mL | Stressed    |

|    |   |                 |            |  |                         |                                       |
|----|---|-----------------|------------|--|-------------------------|---------------------------------------|
| 8  | trans-Chlordane<br><b>CAS #</b> 5103-74-2<br><b>Purity</b> 98%    | (Lot 32943)     | 8.0 µg/mL  | +/- 0.0657<br>+/- 0.3689<br>+/- 0.5305 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 9  | cis-Chlordane<br><b>CAS #</b> 5103-71-9<br><b>Purity</b> 98%      | (Lot 31766)     | 8.0 µg/mL  | +/- 0.0657<br>+/- 0.3689<br>+/- 0.5305 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 10 | Endosulfan I<br><b>CAS #</b> 959-98-8<br><b>Purity</b> 99%        | (Lot BCCF4060)  | 8.0 µg/mL  | +/- 0.0654<br>+/- 0.3672<br>+/- 0.5281 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 11 | 4,4'-DDE<br><b>CAS #</b> 72-55-9<br><b>Purity</b> 99%             | (Lot GHYQG)     | 16.1 µg/mL | +/- 0.1314<br>+/- 0.7375<br>+/- 1.0606 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 12 | Dieldrin<br><b>CAS #</b> 60-57-1<br><b>Purity</b> 98%             | (Lot 11129900)  | 16.1 µg/mL | +/- 0.1320<br>+/- 0.7408<br>+/- 1.0653 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 13 | Endrin<br><b>CAS #</b> 72-20-8<br><b>Purity</b> 99%               | (Lot 13157400)  | 16.1 µg/mL | +/- 0.1320<br>+/- 0.7406<br>+/- 1.0650 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 14 | 4,4'-DDD<br><b>CAS #</b> 72-54-8<br><b>Purity</b> 99%             | (Lot HAN02)     | 16.1 µg/mL | +/- 0.1320<br>+/- 0.7406<br>+/- 1.0650 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 15 | Endosulfan II<br><b>CAS #</b> 33213-65-9<br><b>Purity</b> 99%     | (Lot 12448900)  | 16.0 µg/mL | +/- 0.1309<br>+/- 0.7345<br>+/- 1.0562 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 16 | 4,4'-DDT<br><b>CAS #</b> 50-29-3<br><b>Purity</b> 98%             | (Lot 220428JLM) | 16.1 µg/mL | +/- 0.1315<br>+/- 0.7378<br>+/- 1.0610 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 17 | Endrin aldehyde<br><b>CAS #</b> 7421-93-4<br><b>Purity</b> 99%    | (Lot 30720)     | 16.1 µg/mL | +/- 0.1314<br>+/- 0.7375<br>+/- 1.0606 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 18 | Endosulfan sulfate<br><b>CAS #</b> 1031-07-8<br><b>Purity</b> 99% | (Lot BCCB0424)  | 16.1 µg/mL | +/- 0.1320<br>+/- 0.7406<br>+/- 1.0650 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 19 | Methoxychlor<br><b>CAS #</b> 72-43-5<br><b>Purity</b> 98%         | (Lot 13027000)  | 80.2 µg/mL | +/- 0.5781<br>+/- 3.6697<br>+/- 5.2871 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 20 | Endrin ketone<br><b>CAS #</b> 53494-70-5<br><b>Purity</b> 99%     | (Lot 13026800)  | 16.1 µg/mL | +/- 0.1314<br>+/- 0.7375<br>+/- 1.0606 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |

**Solvent:** Hexane/Toluene (50:50)  
**CAS #** 110-54-3/108-88-3  
**Purity** 99%

**Column:**  
30m x .25mm x .2um  
Rtx-CLP II (cat.# 11323)

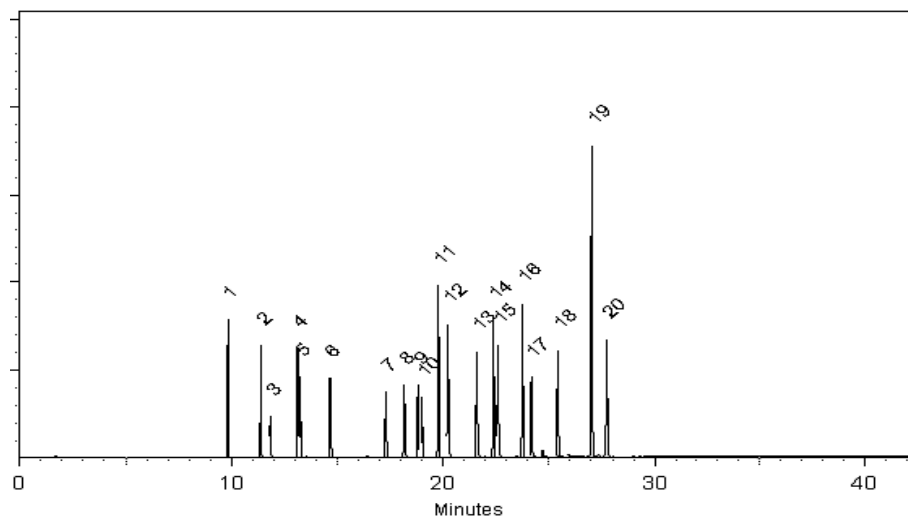
**Carrier Gas:**  
helium-constant pressure 20 psi.

**Temp. Program:**  
150°C to 300°C  
@ 4°C/min. ( hold 5 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
300°C

**Det. Type:**  
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Morgan Craighead - Mix Technician

**Date Mixed:** 19-May-2022      **Balance:** B442140311

  
Fang-Yun Lo - GC Analyst

**Date Passed:** 26-May-2022

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

*k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us) for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions  | Standard Conditions | Non-Standard Conditions |
|---|---------------------|-------------------------|
| 25°C Nominal (Room Temperature)                           | < 60°C              | ≥ 60°C up to 7 days     |
| 10°C or colder (Refrigerate)                              | < 40°C              | ≥ 40°C up to 7 days     |
| 0°C or colder (Freezer)<br>-20°C or colder (Deep Freezer) | < 25°C              | ≥ 25°C up to 7 days     |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us).
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

# CERTIFICATE OF ANALYSIS

**Catalog No:** M-502-36-10X  
**Description:** Hexachlorobutadiene  
**Lot:** 222031188  
**Solvent:** Methanol  
**Hazards:** Refer to SDS for complete safety information

**Date Certified:** Mar 11, 2022  
**Expiration:** Apr 11, 2024  
**Sample Size:** 1 mL  
**Components:** 1  
**Storage Condition:** Ambient (>5 °C)



## Certified Reference Material



| Component           | CAS #   | Purity %<br>(GC/MS) | Prepared<br>Concentration <sup>2</sup><br>(µg/mL) | Certified Analyte<br>Concentration <sup>1</sup><br>(µg/mL) |
|---------------------|---------|---------------------|---|--|
| Hexachlorobutadiene | 87-68-3 | 98.0                | 2002  | 1962   |

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>2</sup> All weights are traceable through NIST, Test No. 684/289871-17

<sup>1</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is  $\pm 2.4\%$ . This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:   
Larry Decker, Organic QC Manager

**1. Quality Standards:**

ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers

ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories

ISO 9001:2015 – Quality Management System – Requirements  
Eagle Registrations

- 2. Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.
- 3. Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.
- 4. Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.
- 5. Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label
- 6. Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula:  $u_a = \sqrt{(u(V))^2 + (u(m))^2 + (u(IV))^2 + (u(RO))^2}$  This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of  $k=2$  is chosen using approximately a 95% confidence level.
- 7. Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

# CERTIFICATE OF ANALYSIS

**Catalog No:** M-502-36-10X

**Description:** Hexachlorobutadiene

**Lot:** 222031188

**Solvent:** Methanol

**Hazards:** Refer to SDS for complete safety information

**Date Certified:** Mar 11, 2022

**Expiration:** Apr 11, 2024

**Sample Size:** 1 mL

**Components:** 1

**Storage Condition:** Ambient (>5 °C)



Signal Word: Danger

Certified Reference Material



| Component           | CAS #   | Purity %<br>(GC/MS) | Prepared<br>Concentration <sup>2</sup><br>(µg/mL) | Certified Analyte<br>Concentration <sup>1</sup><br>(µg/mL) |
|---------------------|---------|---------------------|---|--|
| Hexachlorobutadiene | 87-68-3 | 98.0                | 2002  | 1962   |

K011468

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>2</sup> All weights are traceable through NIST, Test No. 684/289871-17

<sup>1</sup> Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

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The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:

Larry Decker, Organic QC Manager



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042319ECD7.D  
Data file 2: /230204.b/230204.b/02042319ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 23A0179-01  
Client ID:  
Injection Date: 04-FEB-2023 22:14  
Report Date: 02/06/2023 16:44  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.805   | -0.001 | 178127   | 5.682  | -0.002 | 145501   | 28.2   | 30.5 | 7.9           | Tetrachloro-m-xylene |
| 13.883  | -0.005 | 140979   | 14.112 | -0.004 | 161473   | 28.5   | 26.8 | 6.3           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |       |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 447571      | -11.1 |
| Hexabromobiphenyl  | 647433         | 461811      | -28.7 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 353223      | 4.8  |
| Hexabromobiphenyl  | 382032         | 379655      | -0.6 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col                 |       |        |        |        |          |  |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|----------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                   | Peak# | RT     | Shift  | Area   | Amount   |  |
| Aroclor-1016             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1016             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1016             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1016             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1221             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1221             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1221             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1232             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1232             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1232             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1232             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1242             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1242             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1242             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1242             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1248             | 1     | 8.395  | -0.005 | 21176  | 94.6                     | 1     | 8.297  | -0.005 | 23401  | 146.6    |  |
| Aroclor-1248             | 2     | 8.563  | -0.010 | 17766  | 62.2                     | 2     | 8.703  | -0.006 | 18174  | 105.7    |  |
| Aroclor-1248             | 3     | 8.982  | -0.009 | 55521  | 101.6                    | 3     | 9.136  | -0.015 | 24756  | 117.9    |  |
| Aroclor-1248             | 4     | 9.284  | -0.006 | 63307  | 234.1                    | 4     | 9.530  | -0.045 | 24121  | 92.9     |  |
| Total CollAve (4 peaks): |       |        |        | 123.1  | Total Col2Ave (4 peaks): |       |        |        | 115.8  | RPD = 6  |  |
| Corrected Ave (3 peaks): |       |        |        | 86.1   | Corrected Ave (3 peaks): |       |        |        | 105.5  | RPD = 20 |  |
| Aroclor-1254             | 1     | 9.284  | -0.008 | 63307  | 138.8                    | 1     | 9.436  | -0.007 | 47142  | 184.0    |  |
| Aroclor-1254             | 2     | 9.360  | -0.010 | 25620  | 131.5                    | 2     | 9.953  | -0.009 | 24300  | 117.3    |  |
| Aroclor-1254             | 3     | 9.655  | -0.006 | 47624  | 162.9                    | 3     | 10.102 | -0.011 | 79524  | 176.0    |  |
| Aroclor-1254             | 4     | 9.785  | -0.014 | 88894  | 155.2                    | 4     | 10.352 | -0.011 | 106200 | 235.0    |  |
| Aroclor-1254             | 5     | 10.114 | -0.044 | 110301 | 296.2                    | 5     | 10.552 | -0.009 | 69379  | 275.7    |  |
| Total CollAve (5 peaks): |       |        |        | 176.9  | Total Col2Ave (5 peaks): |       |        |        | 197.6  | RPD = 11 |  |
| Corrected Ave (4 peaks): |       |        |        | 147.1  | Corrected Ave (4 peaks): |       |        |        | 178.1  | RPD = 19 |  |
| Aroclor-1260             | 1     | 11.031 | -0.007 | 34220  | 132.1                    | 1     | 11.642 | -0.006 | 33756  | 123.2    |  |
| Aroclor-1260             | 2     | 11.346 | -0.009 | 27187  | 102.1                    | 2     | 11.902 | -0.009 | 68500  | 98.9     |  |
| Aroclor-1260             | 3     | 11.716 | -0.011 | 76963  | 109.8                    | 3     | 12.422 | -0.008 | 27445  | 158.9    |  |
| Aroclor-1260             | 4     | 12.117 | -0.013 | 39888  | 110.1                    | 4     | 12.485 | -0.010 | 49477  | 110.3    |  |
| Aroclor-1260             | 5     | 12.232 | -0.007 | 19146  | 121.2                    | NS    | ---    |        |        | ----     |  |
| Total CollAve (5 peaks): |       |        |        | 115.0  | Total Col2Ave (4 peaks): |       |        |        | 122.8  | RPD = 7  |  |
| Corrected Ave (4 peaks): |       |        |        | 110.8  | Corrected Ave (3 peaks): |       |        |        | 110.8  | RPD = 0  |  |
| Aroclor-1262             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1262             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1262             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1262             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1268             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1268             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1268             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1268             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |

Total PCB Area Col1 (5.906 - 13.788) = 1637764 Col1 Total PCB = 0.3 ppm\*  
Total PCB Area Col2 (5.784 - 14.016) = 1413982 Col2 Total PCB = 0.4 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

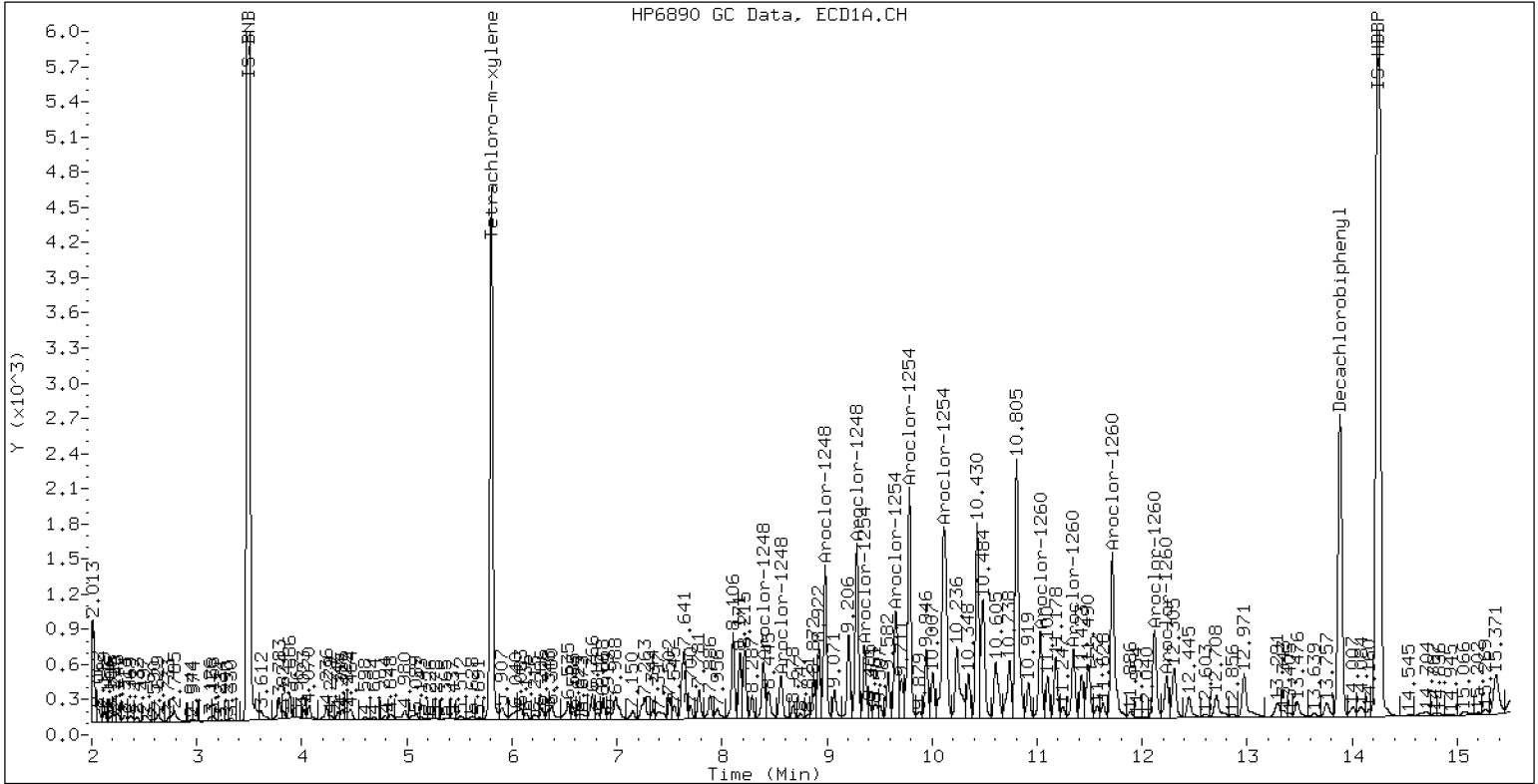
PCB-Form 10 Mod.



# PCB Dual Column Chromatograms

ECD7-ZB5 23A0179-01

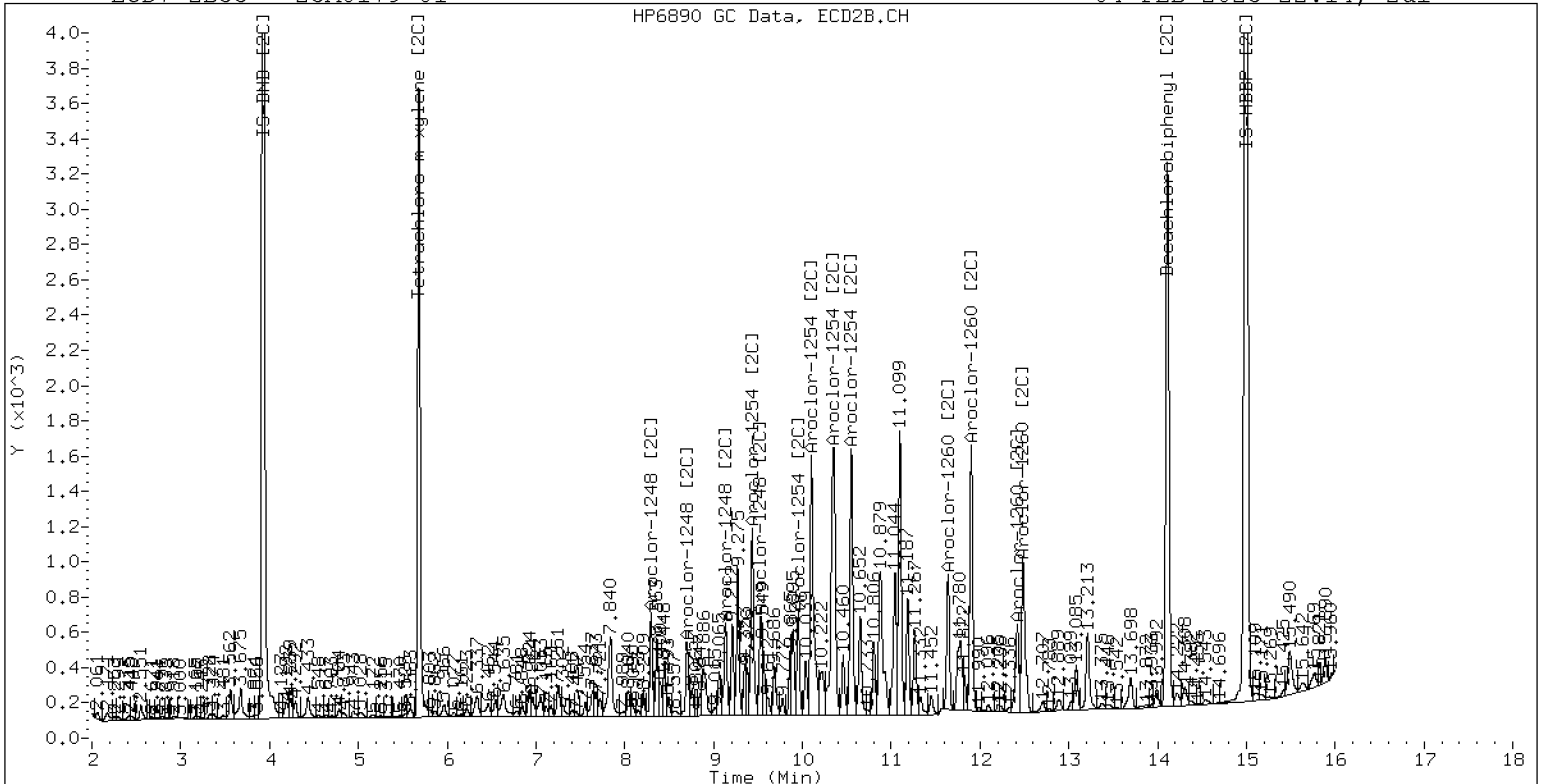
04-FEB-2023 22:14, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23A0179-01

04-FEB-2023 22:14, 2ul



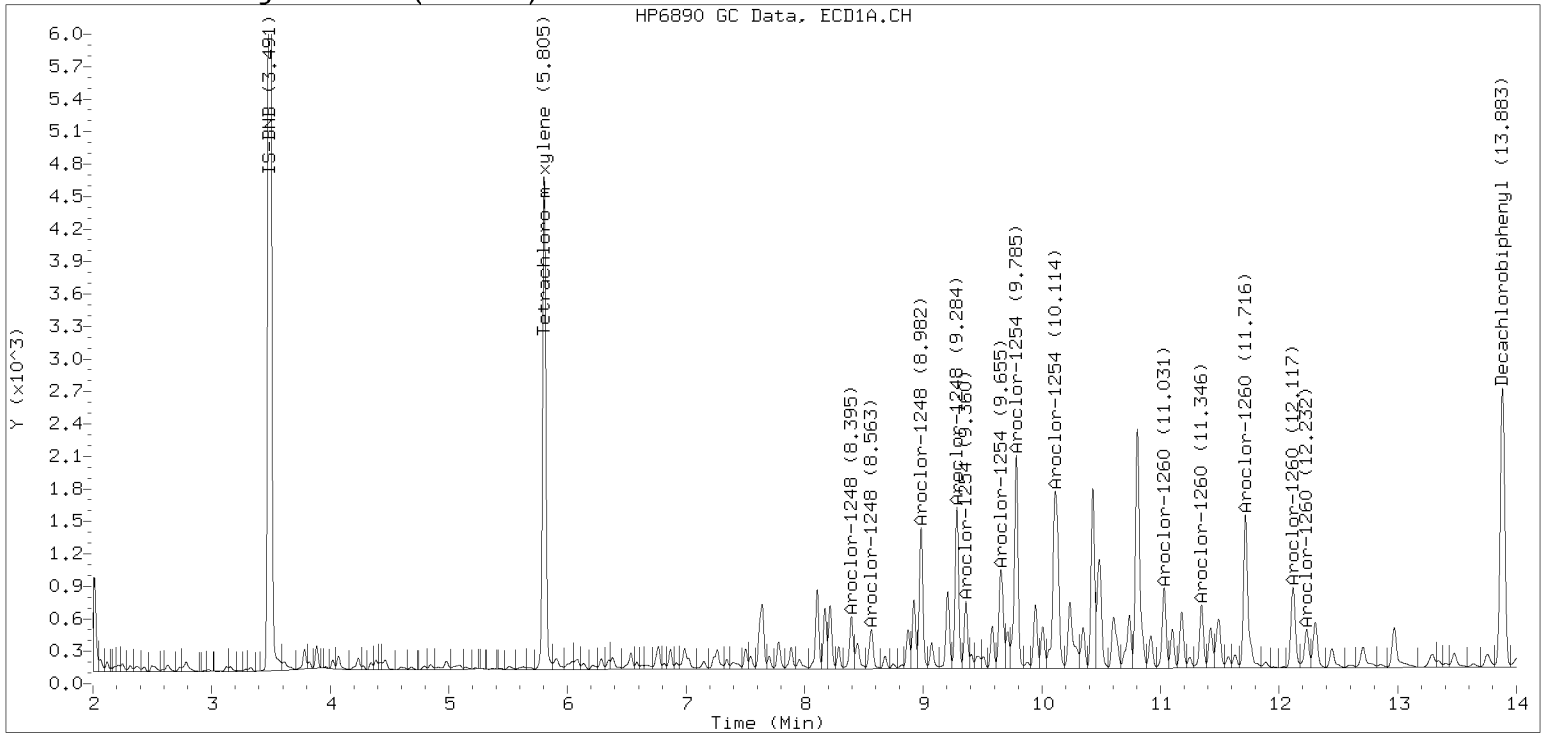
ZB-35 Manual Integration: YES

Manual Peak Adjustment, ZB-5

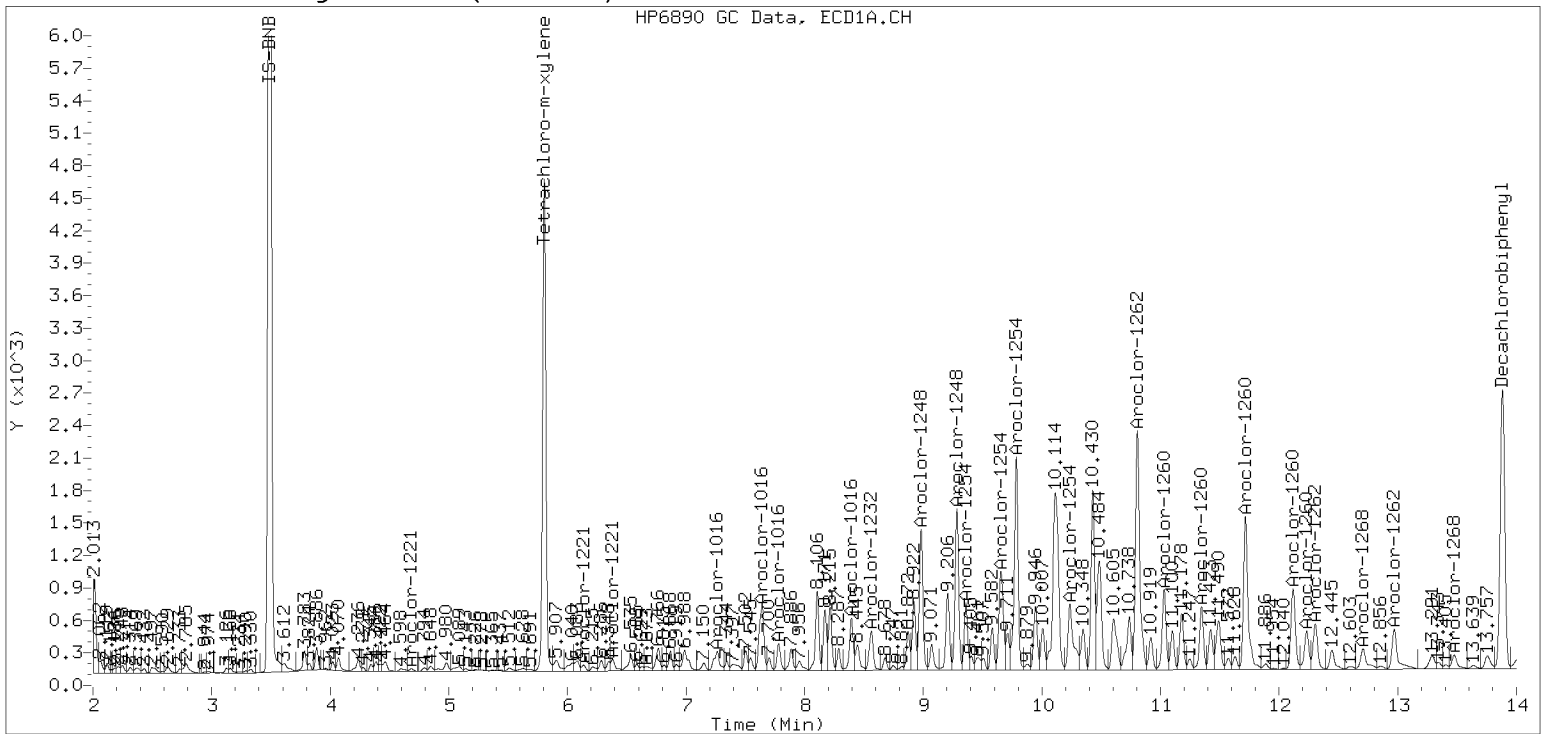
Datafile: ecd7.i/230204.b/02042319ECD7.D

Injection Date: 04-FEB-2023 22:14

Manual Integration (After)



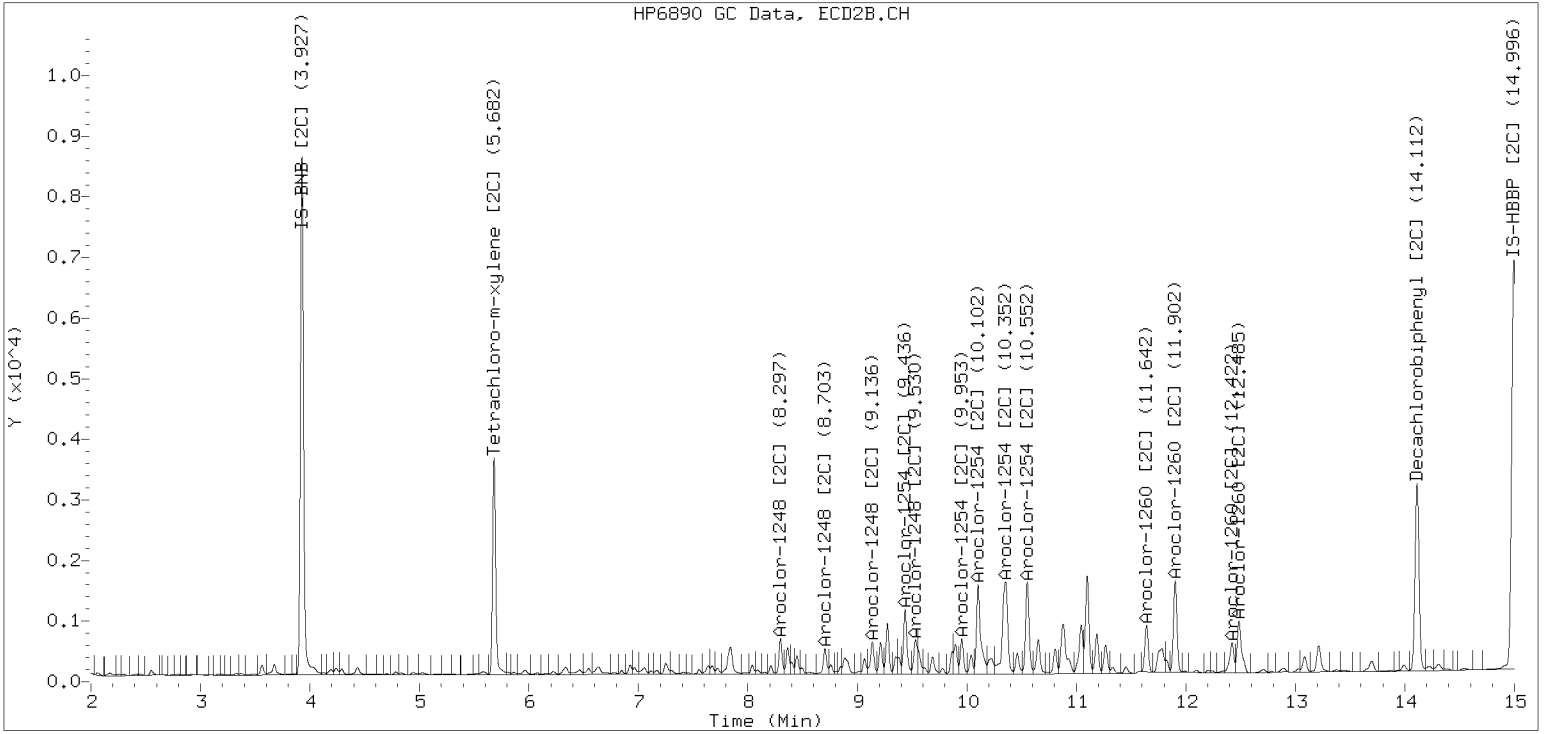
Processed Integration (Before)



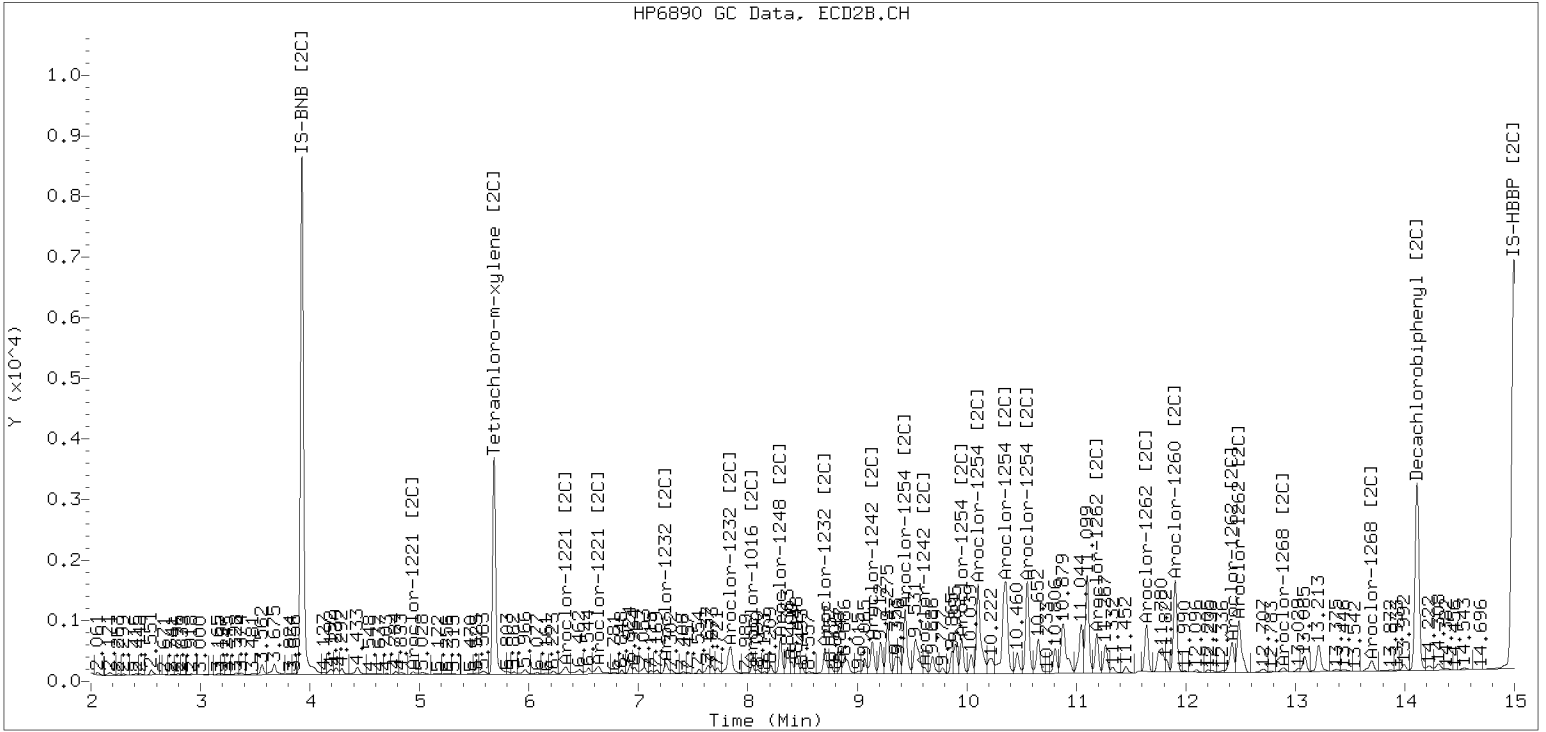
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230204.b/230204.b/02042319ECD7.D Injection Date: 04-FEB-2023

Manual Integration (After)



Processed Integration (Before)





LDW23-SS1271

**Dual Column**

**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8082A**

|  |  |
|--|--|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0179</u>                        |
| Client: <u>Anchor QEA, LLC</u>               |  |
| Project: <u>AOC5 MR Phase 1</u>              |  |
| Matrix: <u>Solid</u>                         | Laboratory ID: <u>23A0179-02 A</u>         |
| Sampled: <u>01/10/23 08:43</u>               | Prepared: <u>01/26/23 11:26</u>            |
| % Solids: <u>66.21</u>                       | Preparation: <u>EPA 3546 (Microwave)</u>   |
| Batch: <u>BLA0558</u>                        | Sequence: <u>SLB0084</u>                   |
| Instrument: <u>ECD7</u>                      | Column 1: <u>ZB5</u>                       |
|  | Column 2: <u>ZB35</u>                      |
|  | File ID: <u>02042320ECD7.D</u>             |
|  | Analyzed: <u>02/04/23 22:35</u>            |
|  | Initial/Final: <u>18.89 g Wet / 2.5 mL</u> |
|  | Calibration: <u>GA00061</u>                |

| CAS NO.    | COMPOUND     | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 11104-28-2 | Aroclor 1221 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 11141-16-5 | Aroclor 1232 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 53469-21-9 | Aroclor 1242 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 12672-29-6 | Aroclor 1248 | 1     | 1        | 31.6              | 1.6 | 4.0 |   |
| 11097-69-1 | Aroclor 1254 | 2     | 1        | 52.1              | 1.6 | 4.0 |   |
| 11096-82-5 | Aroclor 1260 | 2     | 1        | 39.6              | 0.6 | 4.0 |   |

| SURROGATES                   | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i>    | 1     | 7.9955            | 5.84             | 73.0  | 40 - 126  |   |
| <i>Tetrachlorometaxylene</i> | 1     | 7.9955            | 5.74             | 71.8  | 44 - 120  |   |
| <i>Decachlorobiphenyl</i>    | 2     | 7.9955            | 5.77             | 72.2  | 40 - 126  |   |
| <i>Tetrachlorometaxylene</i> | 2     | 7.9955            | 6.36             | 79.5  | 44 - 120  |   |

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042320ECD7.D  
Data file 2: /230204.b/230204.b/02042320ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 23A0179-02  
Client ID:  
Injection Date: 04-FEB-2023 22:35  
Report Date: 02/06/2023 16:44  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        |          | ZB35 Col |        |          | ZB5    | ZB35   | RPD  | Compound/Flag        |
|---------|--------|----------|----------|--------|----------|--------|--------|------|----------------------|
| RT      | Shift  | Response | RT       | Shift  | Response | on col | on col |      |                      |
| 5.805   | -0.001 | 185248   | 5.681    | -0.003 | 151198   | 28.7   | 31.8   | 10.2 | Tetrachloro-m-xylene |
| 13.884  | -0.004 | 137187   | 14.111   | -0.005 | 162361   | 29.2   | 28.9   | 1.1  | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |       |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 456223      | -9.4  |
| Hexabromobiphenyl  | 647433         | 439404      | -32.1 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 351658      | 4.4  |
| Hexabromobiphenyl  | 382032         | 354229      | -7.3 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col                 |       |        |        |        |          |  |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|----------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                   | Peak# | RT     | Shift  | Area   | Amount   |  |
| Aroclor-1016             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1016             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1016             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1016             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1221             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1221             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1221             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1232             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1232             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1232             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1232             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1242             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1242             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1242             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1242             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1248             | 1     | 8.395  | -0.005 | 23531  | 103.1                    | 1     | 8.297  | -0.005 | 26852  | 168.9    |  |
| Aroclor-1248             | 2     | 8.563  | -0.010 | 19277  | 66.2                     | 2     | 8.704  | -0.005 | 20014  | 117.0    |  |
| Aroclor-1248             | 3     | 8.983  | -0.008 | 78714  | 141.3                    | 3     | 9.136  | -0.015 | 25901  | 123.9    |  |
| Aroclor-1248             | 4     | 9.284  | -0.006 | 88896  | 322.5                    | 4     | 9.530  | -0.045 | 41011  | 158.6    |  |
| Total CollAve (4 peaks): |       |        |        | 158.3  | Total Col2Ave (4 peaks): |       |        |        | 142.1  | RPD = 11 |  |
| Corrected Ave (3 peaks): |       |        |        | 103.6  | Corrected Ave (3 peaks): |       |        |        | 133.2  | RPD = 25 |  |
| Aroclor-1254             | 1     | 9.284  | -0.008 | 88896  | 191.2                    | 1     | 9.435  | -0.007 | 64789  | 254.0    |  |
| Aroclor-1254             | 2     | 9.360  | -0.010 | 32950  | 166.0                    | 2     | 9.954  | -0.008 | 28314  | 137.3    |  |
| Aroclor-1254             | 3     | 9.657  | -0.004 | 59296  | 199.0                    | 3     | 10.103 | -0.011 | 107900 | 239.9    |  |
| Aroclor-1254             | 4     | 9.785  | -0.013 | 111371 | 190.8                    | 4     | 10.356 | -0.007 | 129010 | 286.8    |  |
| Aroclor-1254             | 5     | 10.111 | -0.047 | 140883 | 371.1                    | 5     | 10.552 | -0.009 | 96388  | 384.7    |  |
| Total CollAve (5 peaks): |       |        |        | 223.6  | Total Col2Ave (5 peaks): |       |        |        | 260.5  | RPD = 15 |  |
| Corrected Ave (4 peaks): |       |        |        | 186.7  | Corrected Ave (4 peaks): |       |        |        | 229.5  | RPD = 21 |  |
| Aroclor-1260             | 1     | 11.031 | -0.007 | 48627  | 197.2                    | 1     | 11.642 | -0.006 | 49040  | 191.9    |  |
| Aroclor-1260             | 2     | 11.346 | -0.009 | 41228  | 162.7                    | 2     | 11.903 | -0.008 | 111927 | 173.1    |  |
| Aroclor-1260             | 3     | 11.717 | -0.010 | 115524 | 173.2                    | 3     | 12.422 | -0.008 | 39267  | 243.7    |  |
| Aroclor-1260             | 4     | 12.118 | -0.013 | 59690  | 173.2                    | 4     | 12.486 | -0.009 | 76759  | 183.4    |  |
| Aroclor-1260             | 5     | 12.233 | -0.006 | 28211  | 187.7                    | NS    | ---    |        |        | ----     |  |
| Total CollAve (5 peaks): |       |        |        | 178.8  | Total Col2Ave (4 peaks): |       |        |        | 198.0  | RPD = 10 |  |
| Corrected Ave (4 peaks): |       |        |        | 174.2  | Corrected Ave (3 peaks): |       |        |        | 182.8  | RPD = 5  |  |
| Aroclor-1262             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1262             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1262             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1262             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1268             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1268             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1268             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1268             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |

Total PCB Area Col1 (5.906 - 13.788) = 2002150 Col1 Total PCB = 0.4 ppm\*

Total PCB Area Col2 (5.784 - 14.016) = 1736494 Col2 Total PCB = 0.5 ppm\*

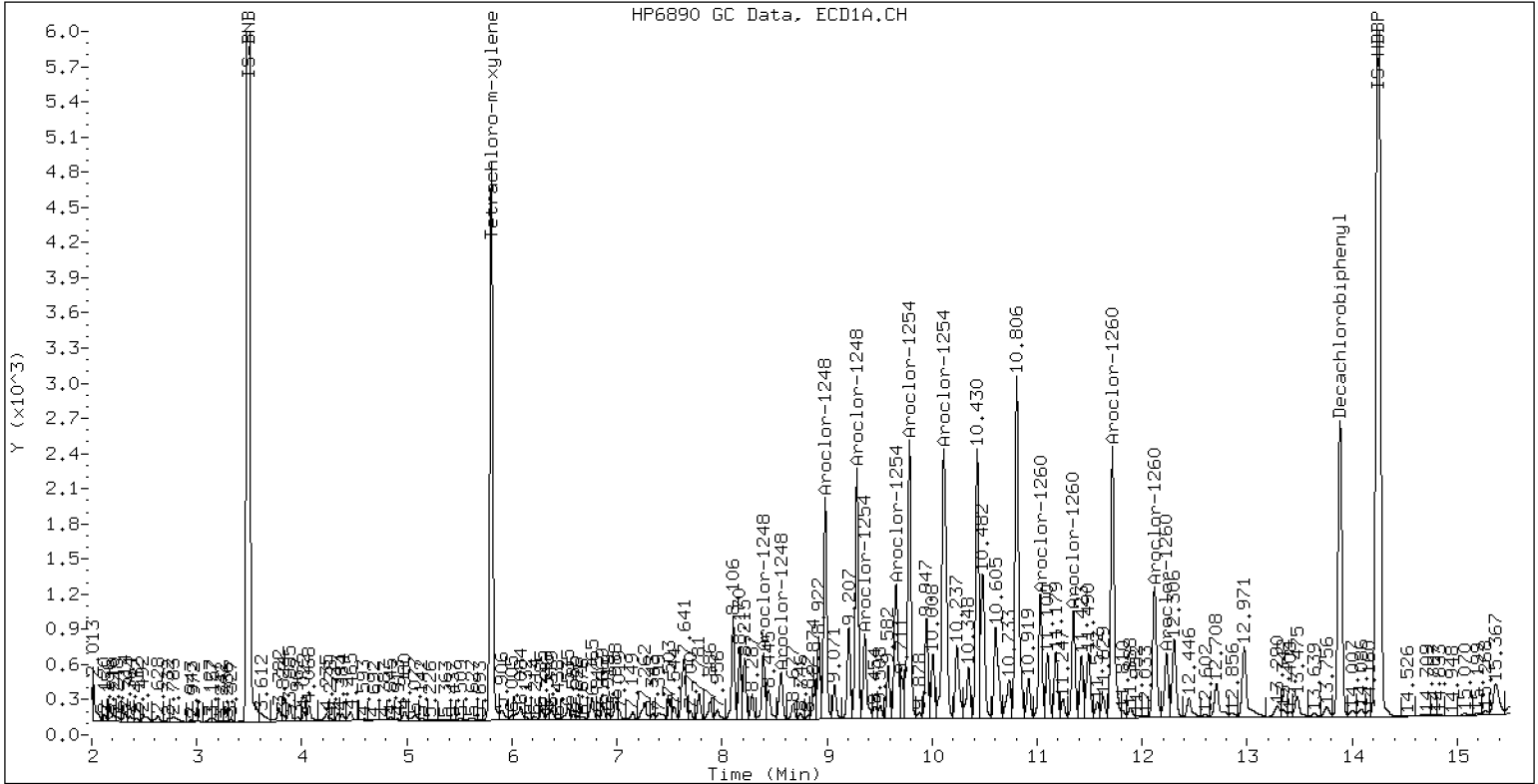
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 23A0179-02

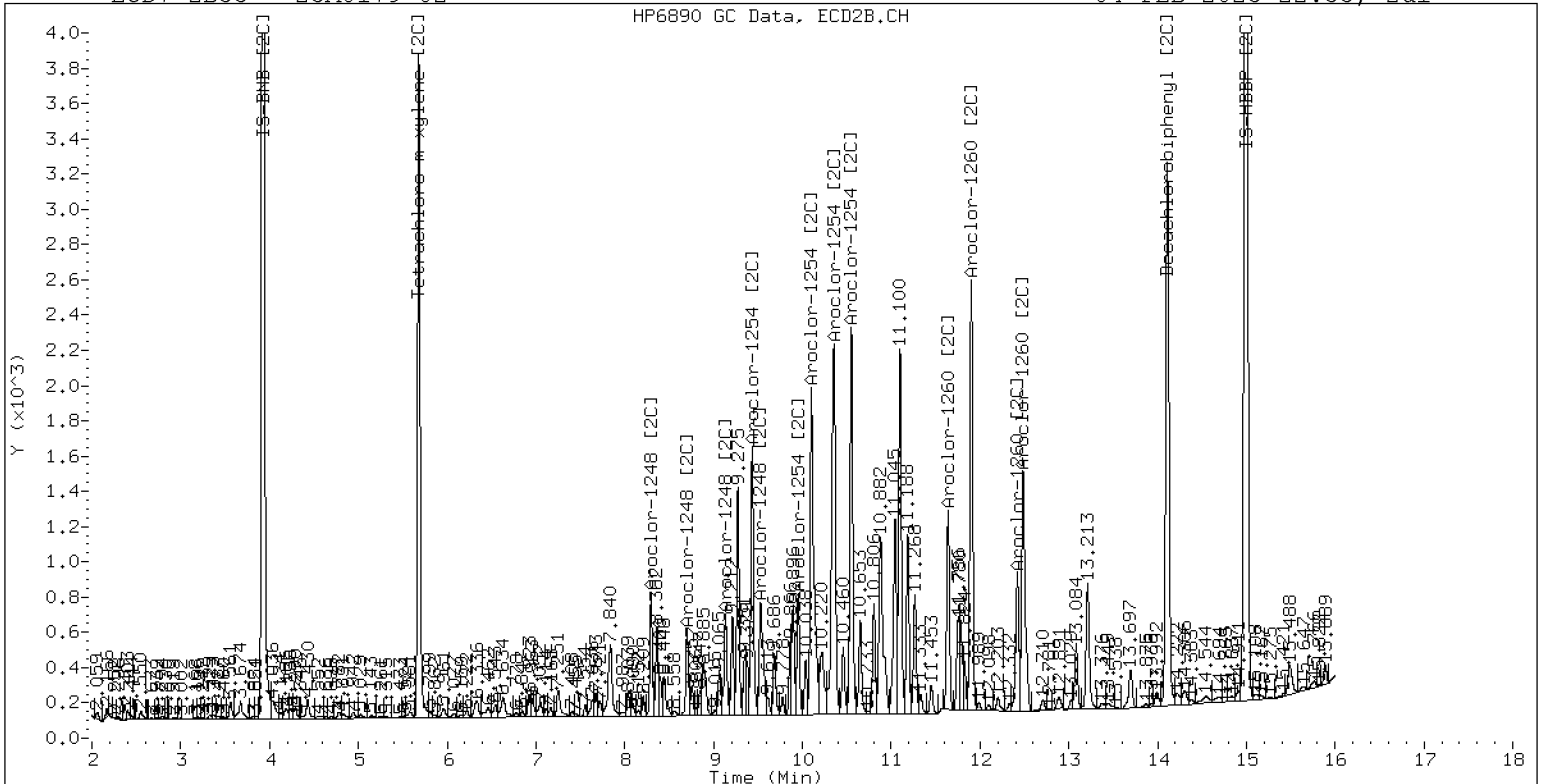
04-FEB-2023 22:35, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23A0179-02

04-FEB-2023 22:35, 2ul



ZB-35 Manual Integration: YES

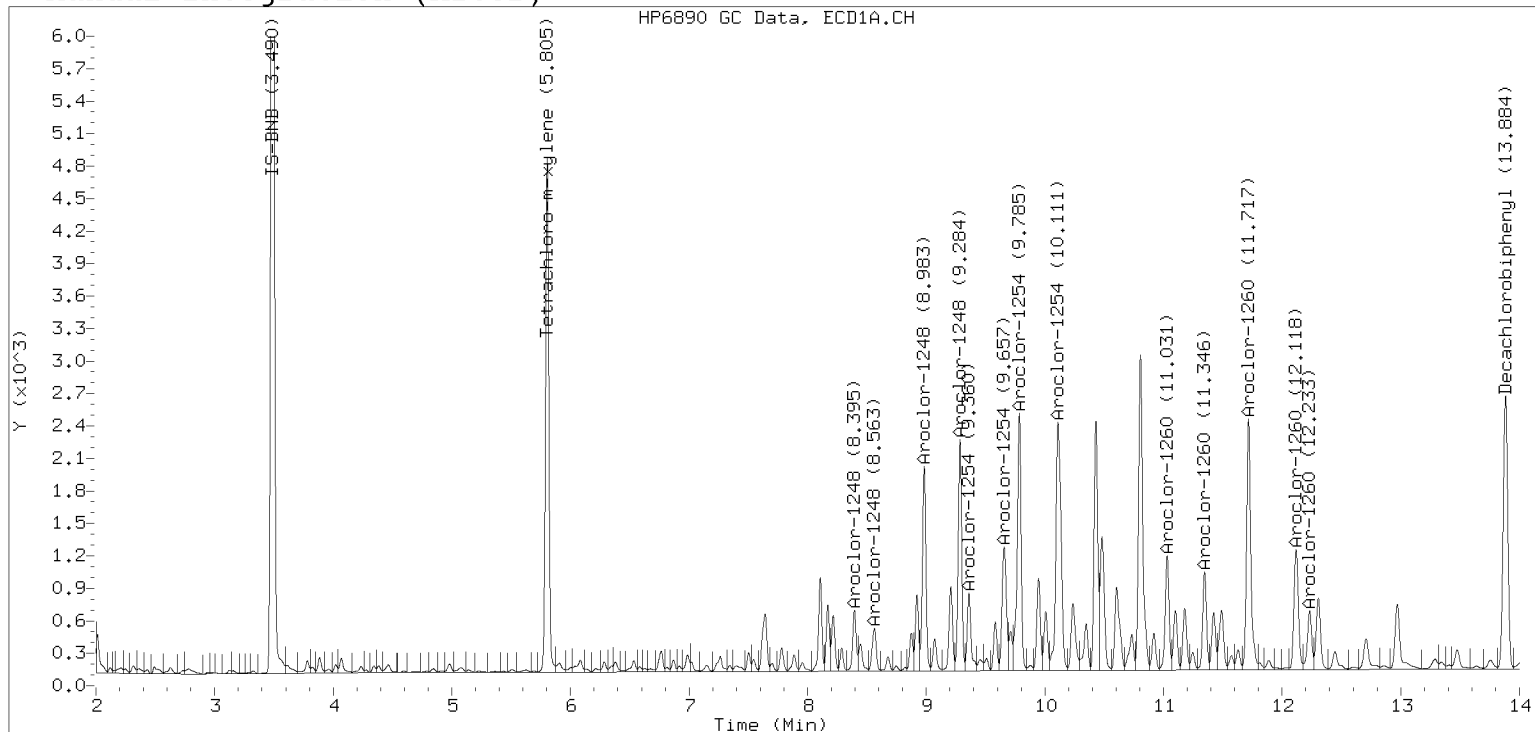


# Manual Peak Adjustment, ZB-5

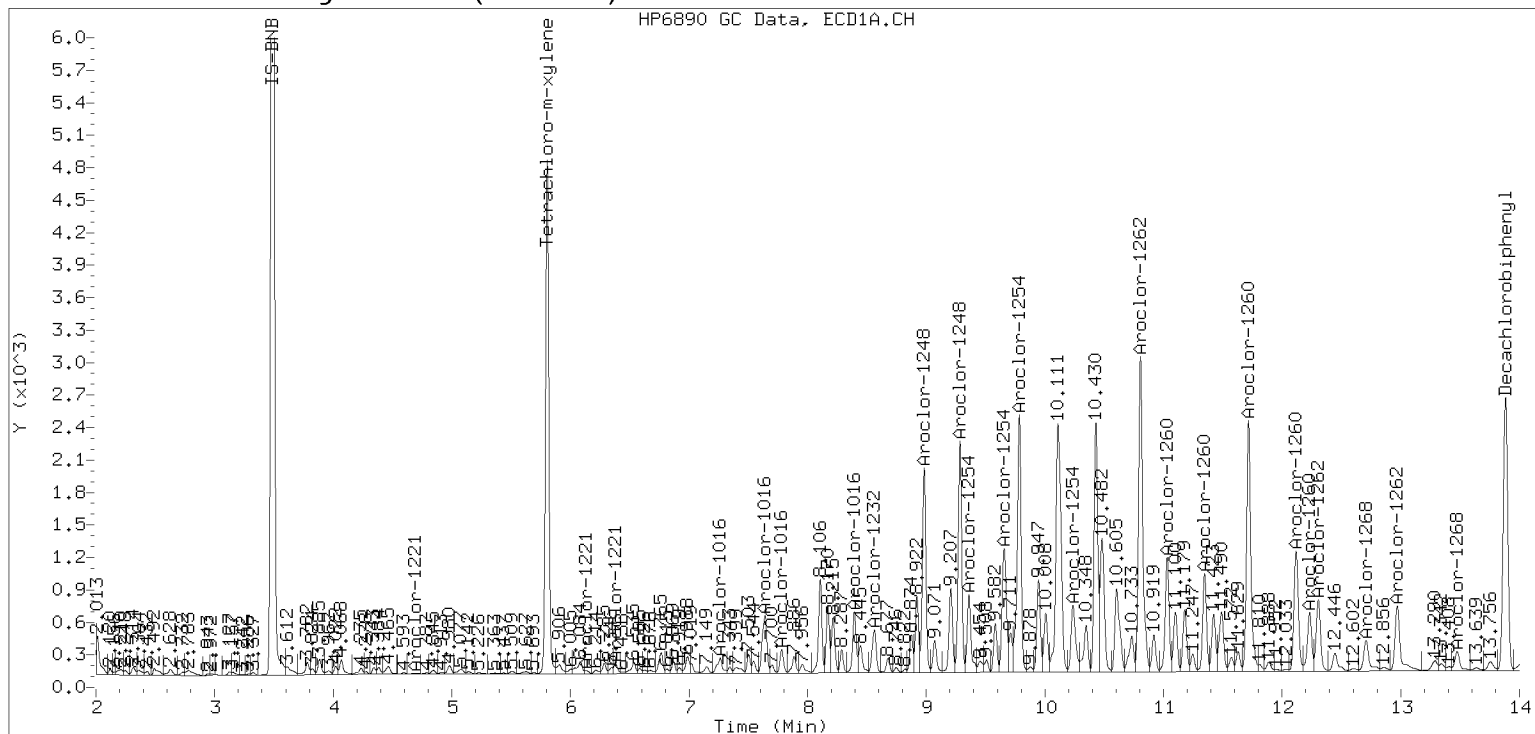
Datafile: ecd7.i/230204.b/02042320ECD7.D

Injection Date: 04-FEB-2023 22:35

## Manual Integration (After)



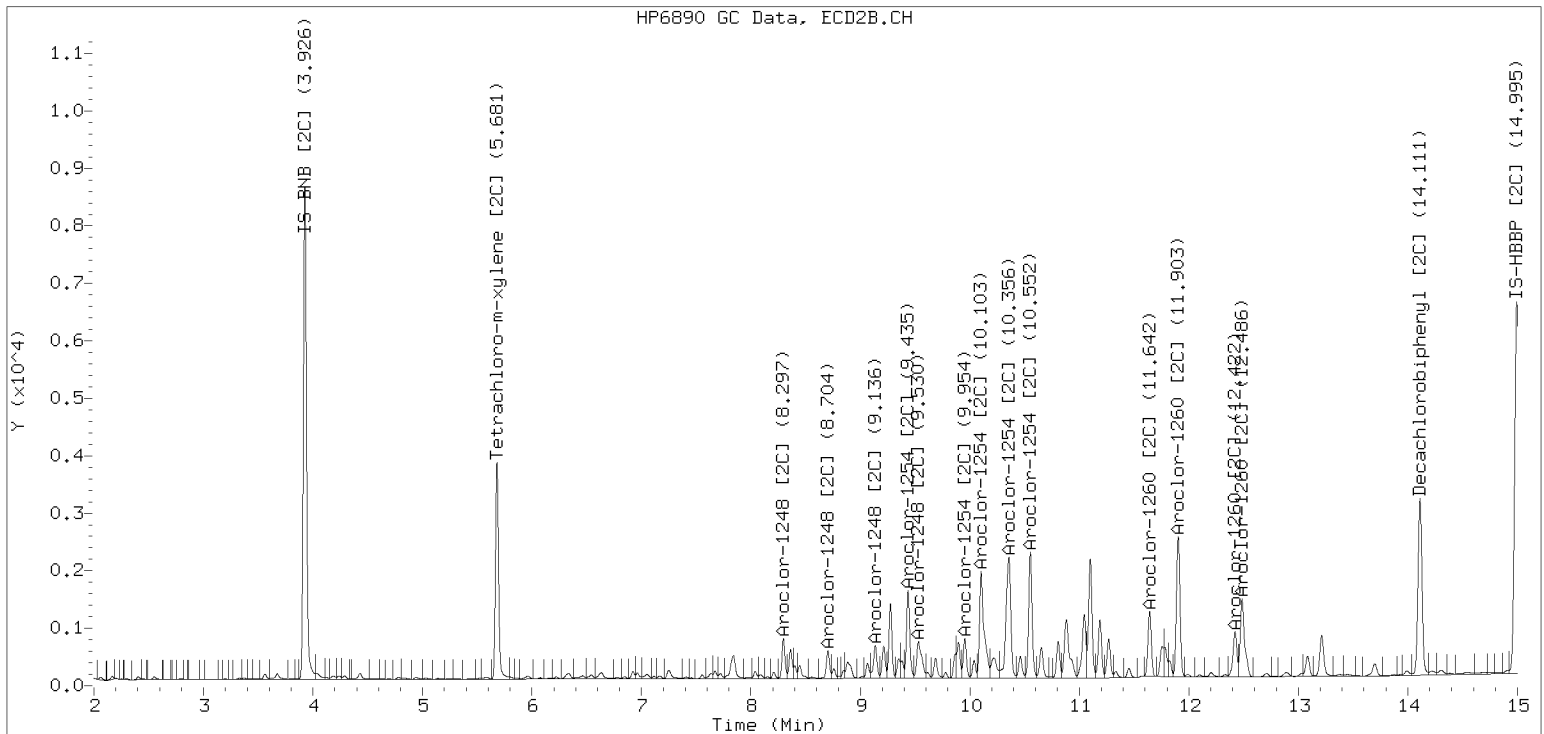
## Processed Integration (Before)



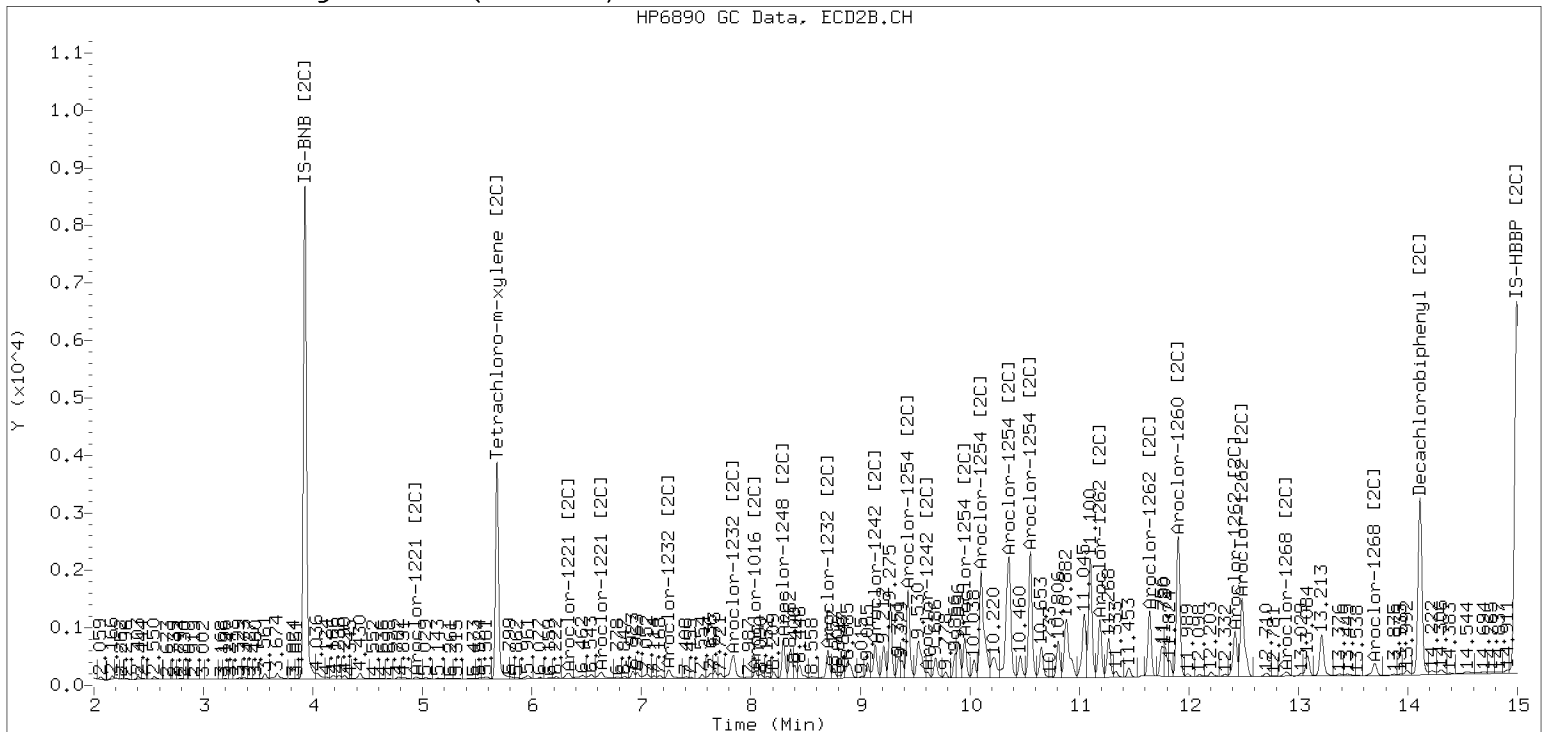
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230204.b/230204.b/02042320ECD7.D Injection Date: 04-FEB-2023

Manual Integration (After)



Processed Integration (Before)





**Dual Column**

**LDW23-SS1266**

**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8082A**

|  |  |  |
|--|--|--|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0179</u>                      |  |
| Client: <u>Anchor QEA, LLC</u>               |  |  |
| Project: <u>AOC5 MR Phase 1</u>              |  |  |
| Matrix: <u>Solid</u>                         | Laboratory ID: <u>23A0179-03 A</u>       | File ID: <u>02042321ECD7.D</u>             |
| Sampled: <u>01/10/23 09:04</u>               | Prepared: <u>01/26/23 11:26</u>          | Analyzed: <u>02/04/23 22:57</u>            |
| % Solids: <u>.58.58</u>                      | Preparation: <u>EPA 3546 (Microwave)</u> | Initial/Final: <u>21.36 g Wet / 2.5 mL</u> |
| Batch: <u>BLA0558</u>                        | Sequence: <u>SLB0084</u>                 | Calibration: <u>GA00061</u>                |
| Instrument: <u>ECD7</u>                      | Column 1: <u>ZB5</u>                     | Column 2: <u>ZB35</u>                      |

| CAS NO.    | COMPOUND     | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 11104-28-2 | Aroclor 1221 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 11141-16-5 | Aroclor 1232 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 53469-21-9 | Aroclor 1242 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 12672-29-6 | Aroclor 1248 | 2     | 1        | 20.8              | 1.6 | 4.0 |   |
| 11097-69-1 | Aroclor 1254 | 2     | 1        | 33.2              | 1.6 | 4.0 |   |
| 11096-82-5 | Aroclor 1260 | 2     | 1        | 23.6              | 0.6 | 4.0 |   |

| SURROGATES                   | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i>    | 1     | 7.9919            | 5.86             | 73.3  | 40 - 126  |   |
| <i>Tetrachlorometaxylene</i> | 1     | 7.9919            | 5.63             | 70.4  | 44 - 120  |   |
| <i>Decachlorobiphenyl</i>    | 2     | 7.9919            | 5.62             | 70.3  | 40 - 126  |   |
| <i>Tetrachlorometaxylene</i> | 2     | 7.9919            | 6.23             | 78.0  | 44 - 120  |   |

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042321ECD7.D  
Data file 2: /230204.b/230204.b/02042321ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 23A0179-03  
Client ID:  
Injection Date: 04-FEB-2023 22:57  
Report Date: 02/06/2023 16:44  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.804   | -0.002 | 180054   | 5.680  | -0.004 | 146108   | 28.2   | 31.2 | 10.2          | Tetrachloro-m-xylene |
| 13.883  | -0.005 | 134404   | 14.111 | -0.004 | 157103   | 29.3   | 28.1 | 4.3           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 452406      | -10.1 |
| Hexabromobiphenyl  | 647433         | 428402      | -33.8 |
| Column 2           |                |             |       |
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 336911         | 346582      | 2.9   |
| Hexabromobiphenyl  | 382032         | 352134      | -7.8  |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |       | ZB35 Col                 |       |        |        |       |          |  |
|--------------------------|-------|--------|--------|-------|--------------------------|-------|--------|--------|-------|----------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area  | Amount                   | Peak# | RT     | Shift  | Area  | Amount   |  |
| Aroclor-1016             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1016             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1016             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| Aroclor-1016             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |
| Aroclor-1221             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1221             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1221             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |
| Aroclor-1232             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1232             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1232             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| Aroclor-1232             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |
| Aroclor-1242             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1242             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1242             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| Aroclor-1242             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |
| Aroclor-1248             | 1     | 8.394  | -0.006 | 20208 | 89.3                     | 1     | 8.297  | -0.005 | 18617 | 118.8    |  |
| Aroclor-1248             | 2     | 8.562  | -0.010 | 16451 | 57.0                     | 2     | 8.703  | -0.006 | 17982 | 106.6    |  |
| Aroclor-1248             | 3     | 8.981  | -0.010 | 46285 | 83.8                     | 3     | 9.136  | -0.015 | 24097 | 116.9    |  |
| Aroclor-1248             | 4     | 9.284  | -0.006 | 49931 | 182.7                    | 4     | 9.531  | -0.044 | 18763 | 73.6     |  |
| Total CollAve (4 peaks): |       |        |        | 103.2 | Total Col2Ave (4 peaks): |       |        |        | 104.0 | RPD = 1  |  |
| Corrected Ave (3 peaks): |       |        |        | 76.7  | Corrected Ave (3 peaks): |       |        |        | 99.1  | RPD = 25 |  |
| Aroclor-1254             | 1     | 9.284  | -0.008 | 49931 | 108.3                    | 1     | 9.436  | -0.007 | 39178 | 155.8    |  |
| Aroclor-1254             | 2     | 9.359  | -0.011 | 19434 | 98.7                     | 2     | 9.954  | -0.008 | 21339 | 105.0    |  |
| Aroclor-1254             | 3     | 9.657  | -0.004 | 42937 | 145.3                    | 3     | 10.103 | -0.011 | 65136 | 146.9    |  |
| Aroclor-1254             | 4     | 9.784  | -0.014 | 70807 | 122.3                    | 4     | 10.350 | -0.012 | 87276 | 196.9    |  |
| Aroclor-1254             | 5     | 10.117 | -0.041 | 87855 | 233.4                    | 5     | 10.552 | -0.009 | 56051 | 227.0    |  |
| Total CollAve (5 peaks): |       |        |        | 141.6 | Total Col2Ave (5 peaks): |       |        |        | 166.3 | RPD = 16 |  |
| Corrected Ave (4 peaks): |       |        |        | 118.7 | Corrected Ave (4 peaks): |       |        |        | 151.2 | RPD = 24 |  |
| Aroclor-1260             | 1     | 11.031 | -0.007 | 25637 | 106.7                    | 1     | 11.641 | -0.007 | 30501 | 120.1    |  |
| Aroclor-1260             | 2     | 11.347 | -0.008 | 22848 | 92.5                     | 2     | 11.902 | -0.009 | 57262 | 89.1     |  |
| Aroclor-1260             | 3     | 11.716 | -0.012 | 65837 | 101.2                    | 3     | 12.421 | -0.009 | 25940 | 161.9    |  |
| Aroclor-1260             | 4     | 12.117 | -0.013 | 33655 | 100.1                    | 4     | 12.486 | -0.009 | 42174 | 101.4    |  |
| Aroclor-1260             | 5     | 12.232 | -0.007 | 16011 | 109.3                    | NS    | ---    |        |       | ----     |  |
| Total CollAve (5 peaks): |       |        |        | 102.0 | Total Col2Ave (4 peaks): |       |        |        | 118.1 | RPD = 15 |  |
| Corrected Ave (4 peaks): |       |        |        | 100.1 | Corrected Ave (3 peaks): |       |        |        | 103.5 | RPD = 3  |  |
| Aroclor-1262             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1262             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1262             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| Aroclor-1262             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |
| Aroclor-1268             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1268             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1268             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| Aroclor-1268             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |

Total PCB Area Col1 (5.906 - 13.788) = 1578100 Col1 Total PCB = 0.3 ppm\*

Total PCB Area Col2 (5.784 - 14.016) = 1394083 Col2 Total PCB = 0.4 ppm\*

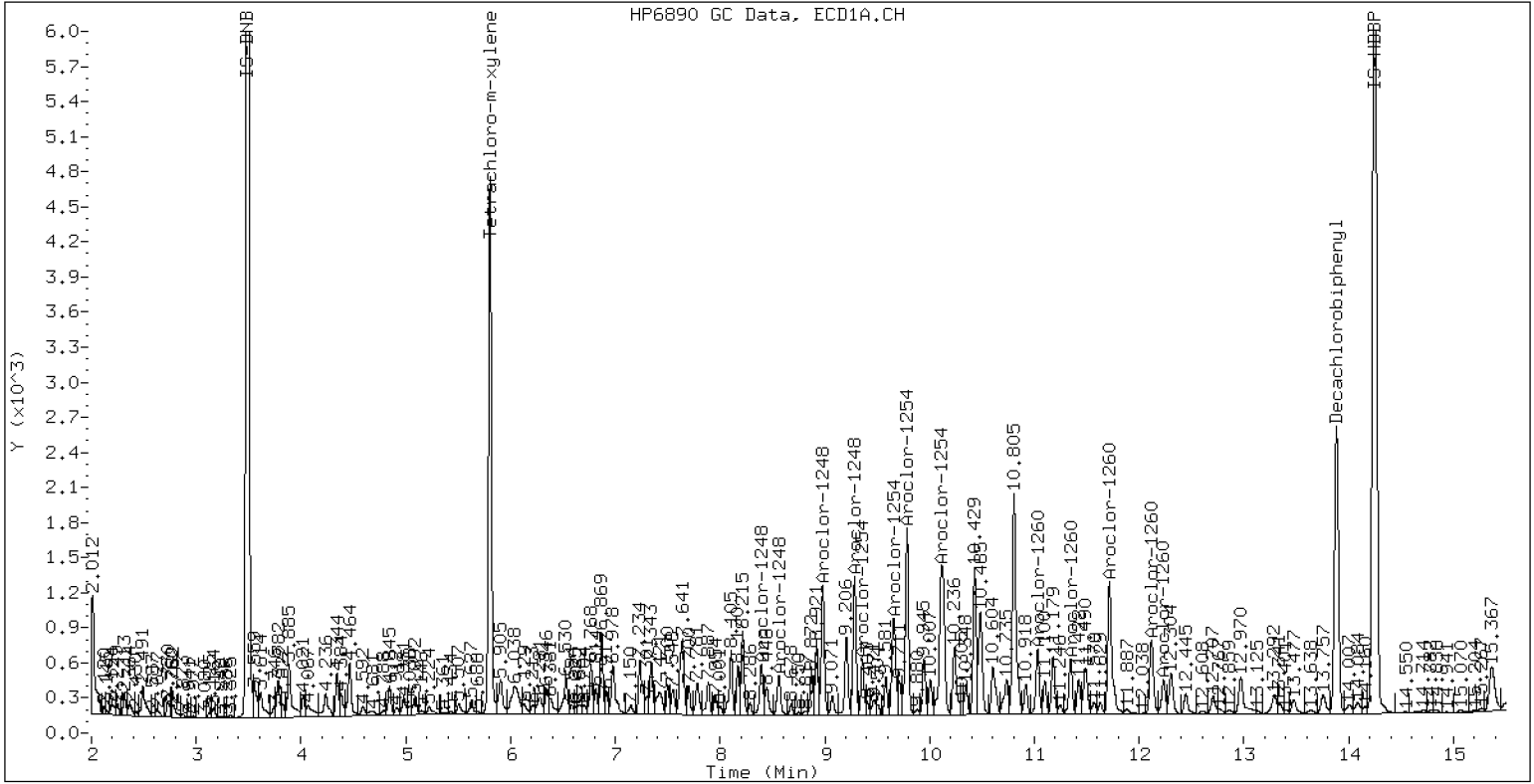
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 23A0179-03

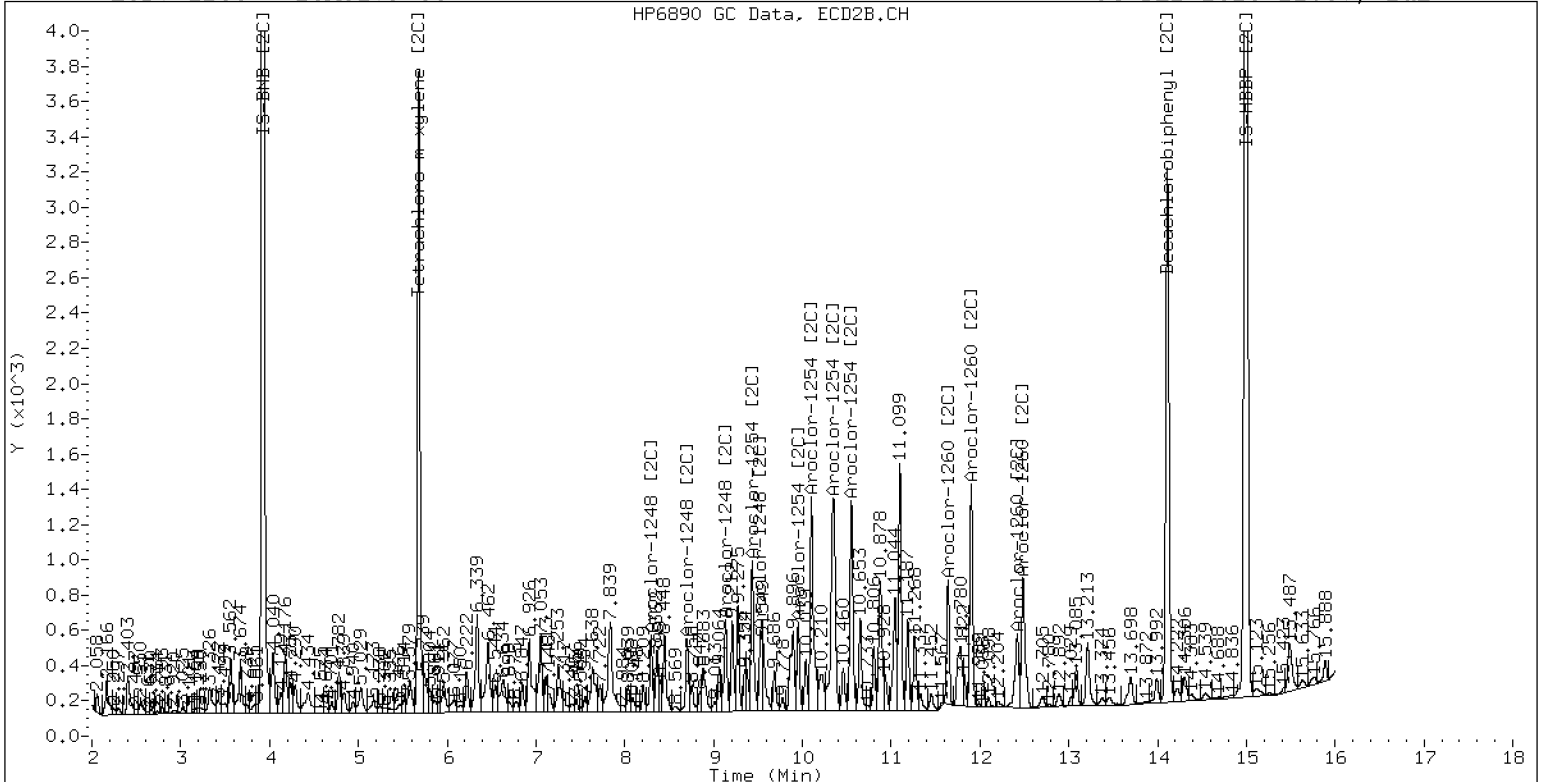
04-FEB-2023 22:57, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23A0179-03

04-FEB-2023 22:57, 2ul



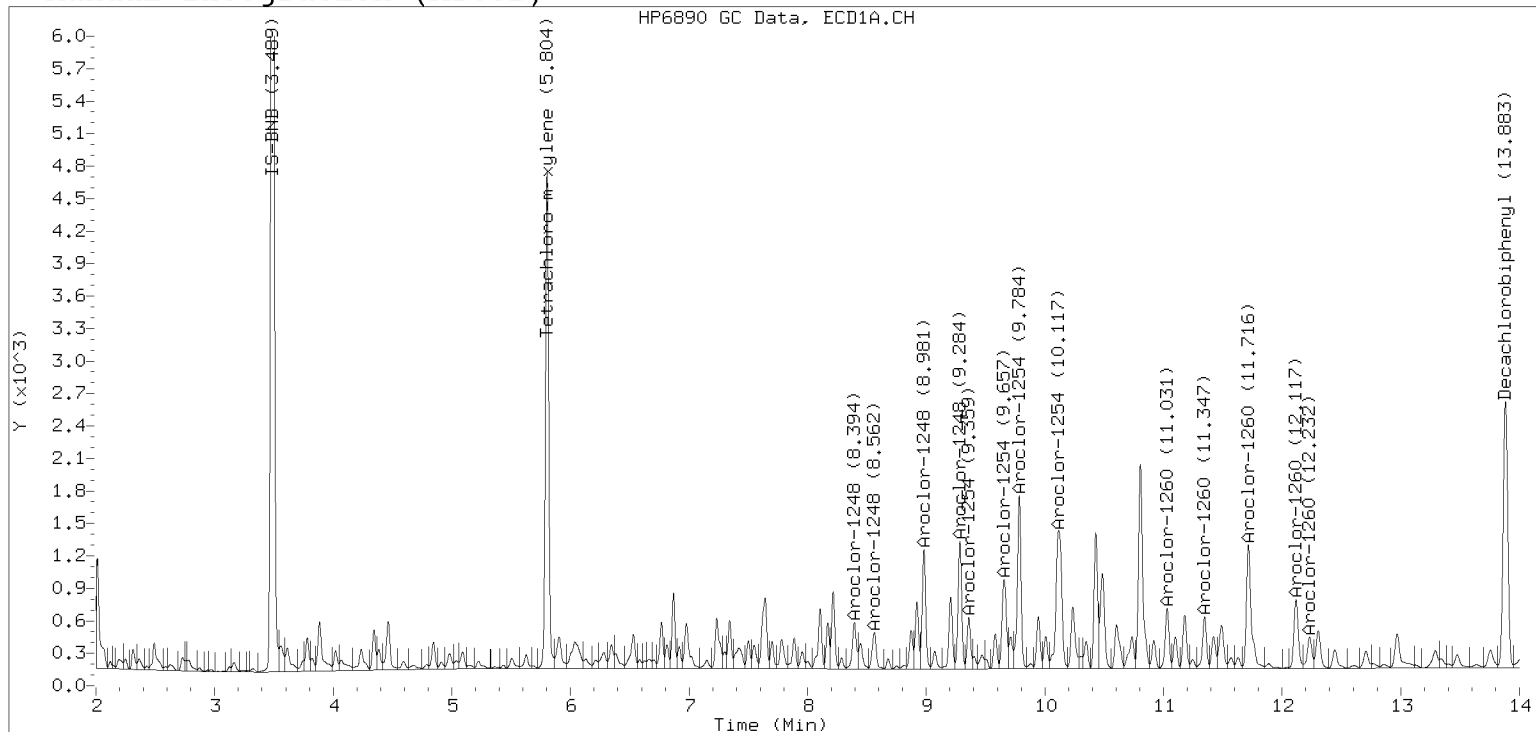
ZB-35 Manual Integration: YES

# Manual Peak Adjustment, ZB-5

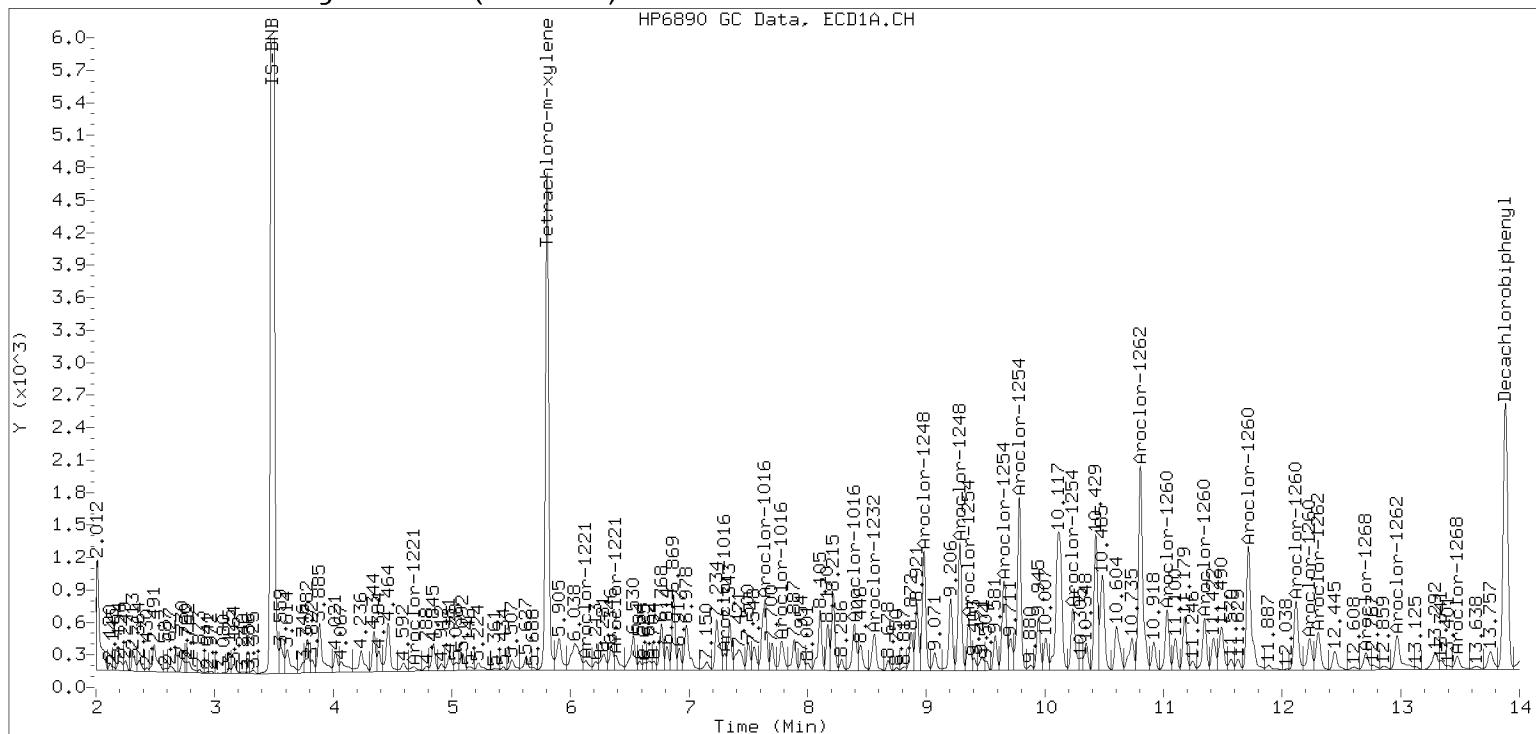
Datafile: ecd7.i/230204.b/02042321ECD7.D

Injection Date: 04-FEB-2023 22:57

## Manual Integration (After)



## Processed Integration (Before)

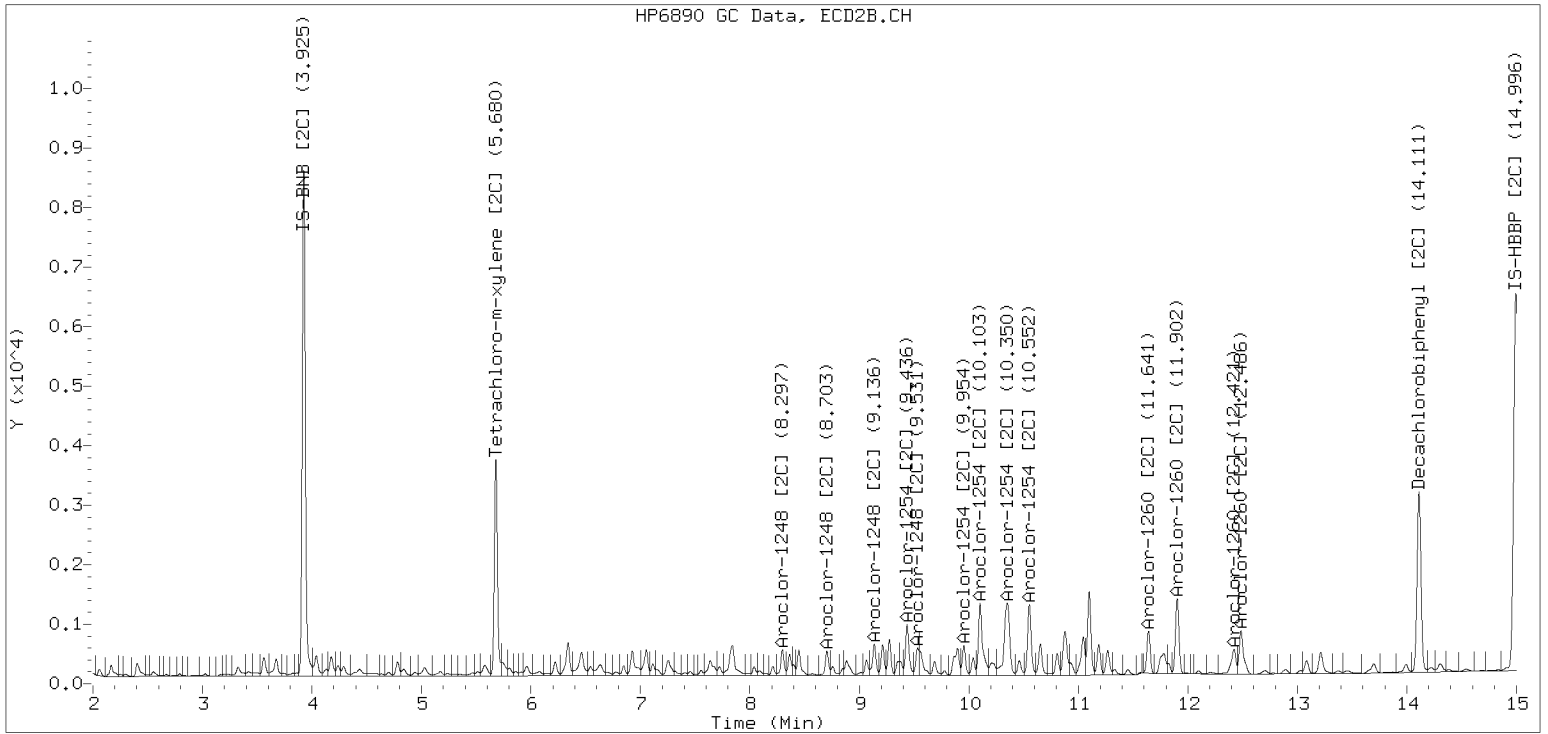




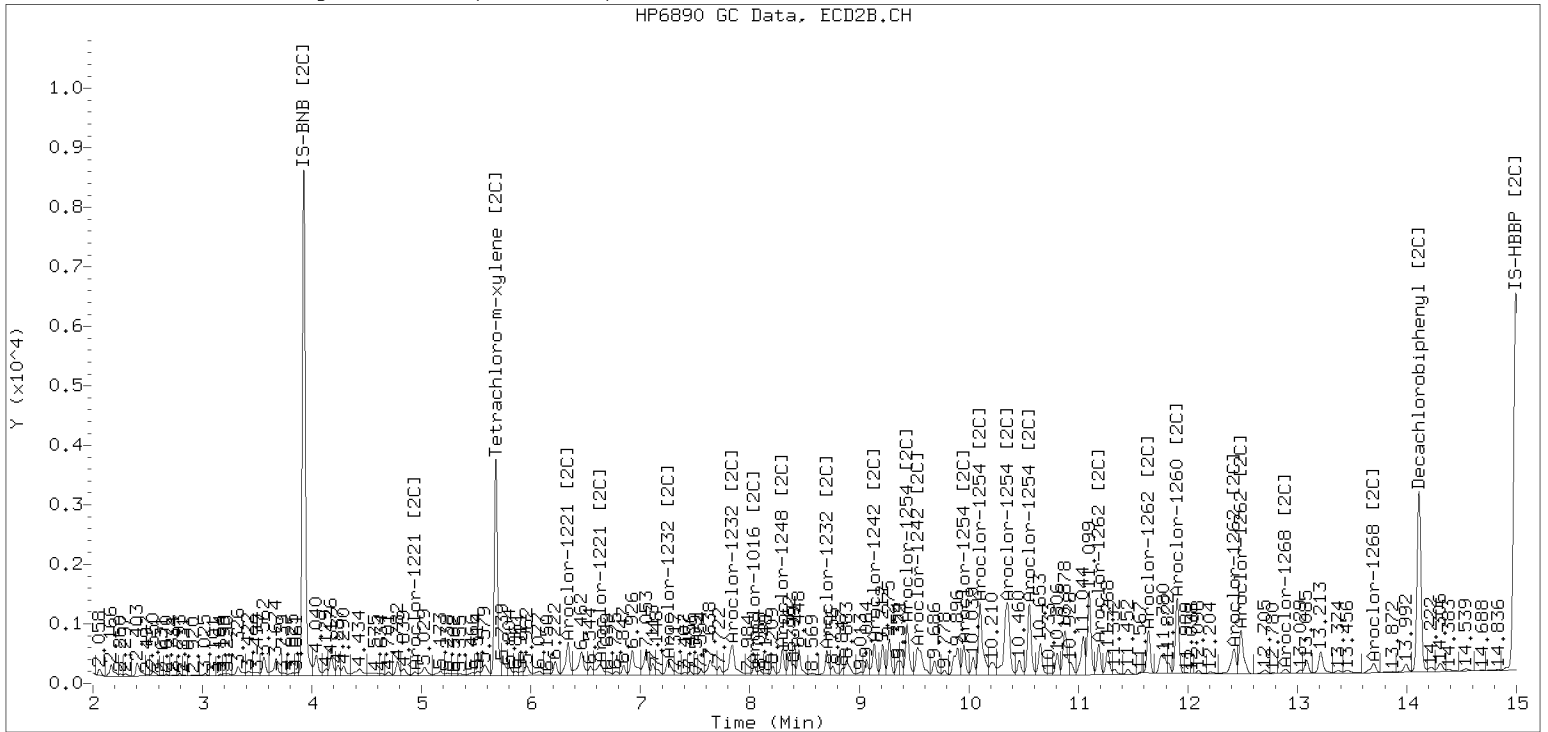
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230204.b/230204.b/02042321ECD7.D Injection Date: 04-FEB-2023

Manual Integration (After)



Processed Integration (Before)





**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC SDG: 23A0179  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Solid Laboratory ID: 23A0179-04 A File ID: 02042322ECD7.D  
 Sampled: 01/10/23 09:20 Prepared: 01/26/23 11:26 Analyzed: 02/04/23 23:18  
 % Solids: 53.74 Preparation: EPA 3546 (Microwave) Initial/Final: 23.27 g Wet / 2.5 mL  
 Batch: BLA0558 Sequence: SLB0084 Calibration: GA00061  
 Instrument: ECD7 Column 1: ZB5 Column 2: ZB35

| CAS NO.    | COMPOUND     | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 11104-28-2 | Aroclor 1221 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 11141-16-5 | Aroclor 1232 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 53469-21-9 | Aroclor 1242 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 12672-29-6 | Aroclor 1248 | 1     | 1        | 23.9              | 1.6 | 4.0 |   |
| 11097-69-1 | Aroclor 1254 | 2     | 1        | 41.1              | 1.6 | 4.0 |   |
| 11096-82-5 | Aroclor 1260 | 2     | 1        | 40.2              | 0.6 | 4.0 |   |

| SURROGATES                   | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i>    | 1     | 7.9966            | 5.66             | 70.8  | 40 - 126  |   |
| <i>Tetrachlorometaxylene</i> | 1     | 7.9966            | 5.31             | 66.4  | 44 - 120  |   |
| <i>Decachlorobiphenyl</i>    | 2     | 7.9966            | 5.48             | 68.5  | 40 - 126  |   |
| <i>Tetrachlorometaxylene</i> | 2     | 7.9966            | 6.00             | 75.0  | 44 - 120  |   |

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042322ECD7.D                   ARI ID: 23A0179-04  
Data file 2: /230204.b/230204.b/02042322ECD7.D           Client ID:  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m       Injection Date: 04-FEB-2023 23:18  
Compound Sublist: PCB.sub                                 Report Date: 02/06/2023 16:44  
Instrument, Inj. Vol.: ecd7.i, 2ul                       Matrix: NONE  
Quant Method: Internal Std                               Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.804   | -0.002 | 166250   | 5.680  | -0.004 | 137961   | 26.6   | 30.0 | 12.2          | Tetrachloro-m-xylene |
| 13.883  | -0.005 | 126016   | 14.111 | -0.004 | 148923   | 28.3   | 27.4 | 3.3           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 442563      | -12.1 |
| Hexabromobiphenyl  | 647433         | 415807      | -35.8 |

| Column 2           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 336911         | 339956      | 0.9   |
| Hexabromobiphenyl  | 382032         | 342376      | -10.4 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col                 |       |        |        |        |          |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|----------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                   | Peak# | RT     | Shift  | Area   | Amount   |
| Aroclor-1016             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |
| Aroclor-1016             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |
| Aroclor-1016             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |
| Aroclor-1016             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |
| Aroclor-1221             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |
| Aroclor-1221             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |
| Aroclor-1221             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |
| Aroclor-1232             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |
| Aroclor-1232             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |
| Aroclor-1232             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |
| Aroclor-1232             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |
| Aroclor-1242             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |
| Aroclor-1242             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |
| Aroclor-1242             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |
| Aroclor-1242             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |
| Aroclor-1248             | 1     | 8.394  | -0.006 | 20833  | 94.1                     | 1     | 8.296  | -0.006 | 22944  | 149.3    |
| Aroclor-1248             | 2     | 8.562  | -0.010 | 17029  | 60.3                     | 2     | 8.703  | -0.006 | 17023  | 102.9    |
| Aroclor-1248             | 3     | 8.982  | -0.010 | 53625  | 99.3                     | 3     | 9.136  | -0.015 | 23373  | 115.6    |
| Aroclor-1248             | 4     | 9.284  | -0.007 | 59804  | 223.7                    | 4     | 9.529  | -0.046 | 23244  | 93.0     |
| Total CollAve (4 peaks): |       |        |        | 119.3  | Total Col2Ave (4 peaks): |       |        |        | 115.2  | RPD = 4  |
| Corrected Ave (3 peaks): |       |        |        | 84.6   | Corrected Ave (3 peaks): |       |        |        | 103.9  | RPD = 20 |
| Aroclor-1254             | 1     | 9.284  | -0.009 | 59804  | 132.6                    | 1     | 9.435  | -0.007 | 45228  | 183.4    |
| Aroclor-1254             | 2     | 9.359  | -0.010 | 24741  | 128.5                    | 2     | 9.954  | -0.008 | 22826  | 114.5    |
| Aroclor-1254             | 3     | 9.656  | -0.005 | 44700  | 154.7                    | 3     | 10.102 | -0.011 | 78771  | 181.1    |
| Aroclor-1254             | 4     | 9.784  | -0.014 | 85432  | 150.9                    | 4     | 10.352 | -0.010 | 105797 | 243.3    |
| Aroclor-1254             | 5     | 10.113 | -0.044 | 108681 | 295.1                    | 5     | 10.552 | -0.009 | 73726  | 304.4    |
| Total CollAve (5 peaks): |       |        |        | 172.3  | Total Col2Ave (5 peaks): |       |        |        | 205.3  | RPD = 17 |
| Corrected Ave (4 peaks): |       |        |        | 141.6  | Corrected Ave (4 peaks): |       |        |        | 180.6  | RPD = 24 |
| Aroclor-1260             | 1     | 11.030 | -0.008 | 43464  | 186.3                    | 1     | 11.641 | -0.006 | 44387  | 179.7    |
| Aroclor-1260             | 2     | 11.346 | -0.009 | 36322  | 151.5                    | 2     | 11.902 | -0.009 | 104175 | 166.7    |
| Aroclor-1260             | 3     | 11.716 | -0.011 | 108939 | 172.6                    | 3     | 12.421 | -0.009 | 42327  | 271.7    |
| Aroclor-1260             | 4     | 12.117 | -0.014 | 54177  | 166.1                    | 4     | 12.486 | -0.009 | 75155  | 185.8    |
| Aroclor-1260             | 5     | 12.232 | -0.007 | 28804  | 202.6                    | NS    | ---    |        |        | ---      |
| Total CollAve (5 peaks): |       |        |        | 175.8  | Total Col2Ave (4 peaks): |       |        |        | 201.0  | RPD = 13 |
| Corrected Ave (4 peaks): |       |        |        | 169.1  | Corrected Ave (3 peaks): |       |        |        | 177.4  | RPD = 5  |
| Aroclor-1262             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |
| Aroclor-1262             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |
| Aroclor-1262             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |
| Aroclor-1262             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |
| Aroclor-1268             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |
| Aroclor-1268             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |
| Aroclor-1268             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |
| Aroclor-1268             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |

Total PCB Area Col1 (5.906 - 13.788) = 1767795 Col1 Total PCB = 0.3 ppm\*

Total PCB Area Col2 (5.784 - 14.016) = 1575874 Col2 Total PCB = 0.4 ppm\*

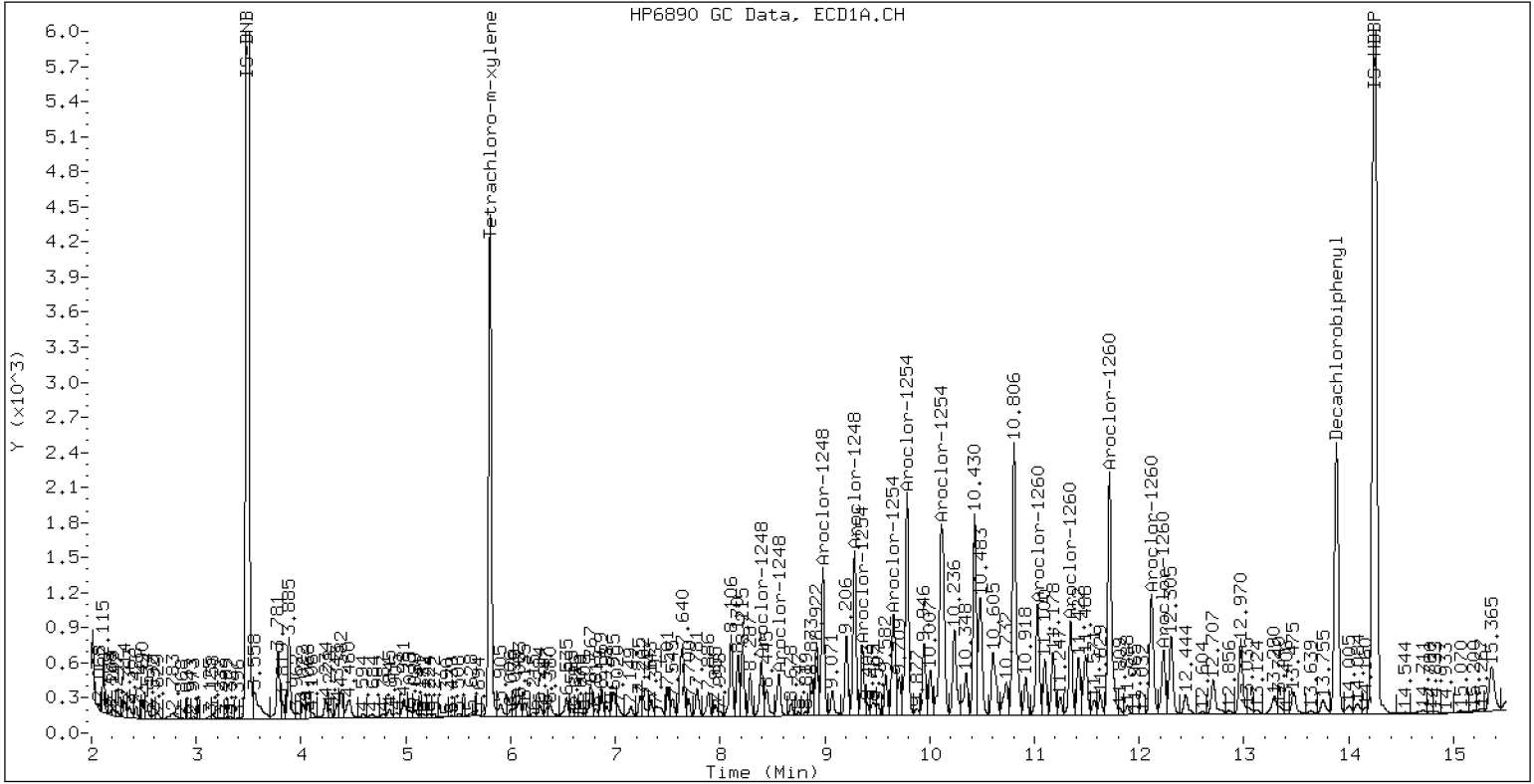
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 23A0179-04

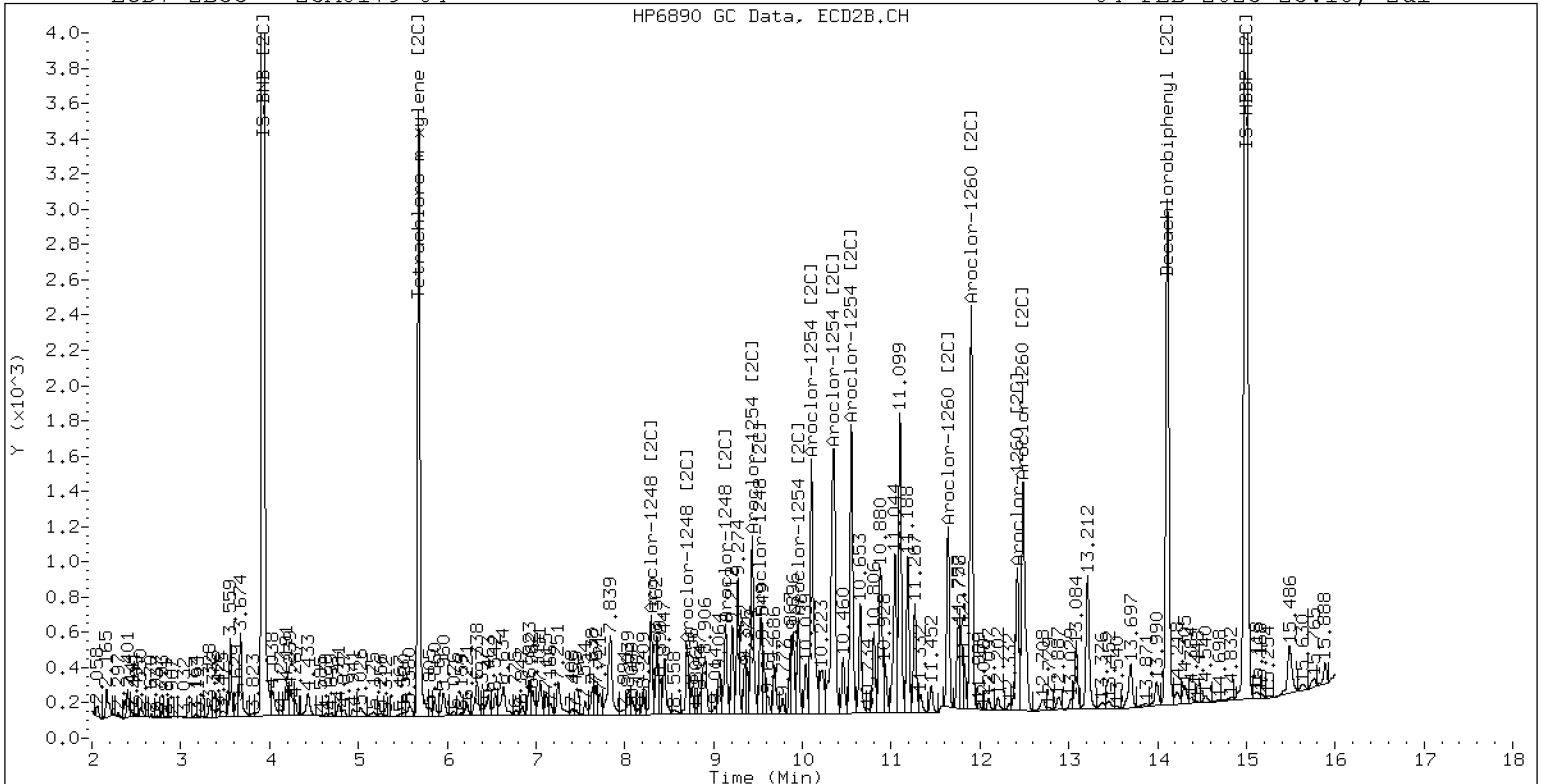
04-FEB-2023 23:18, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23A0179-04

04-FEB-2023 23:18, 2ul



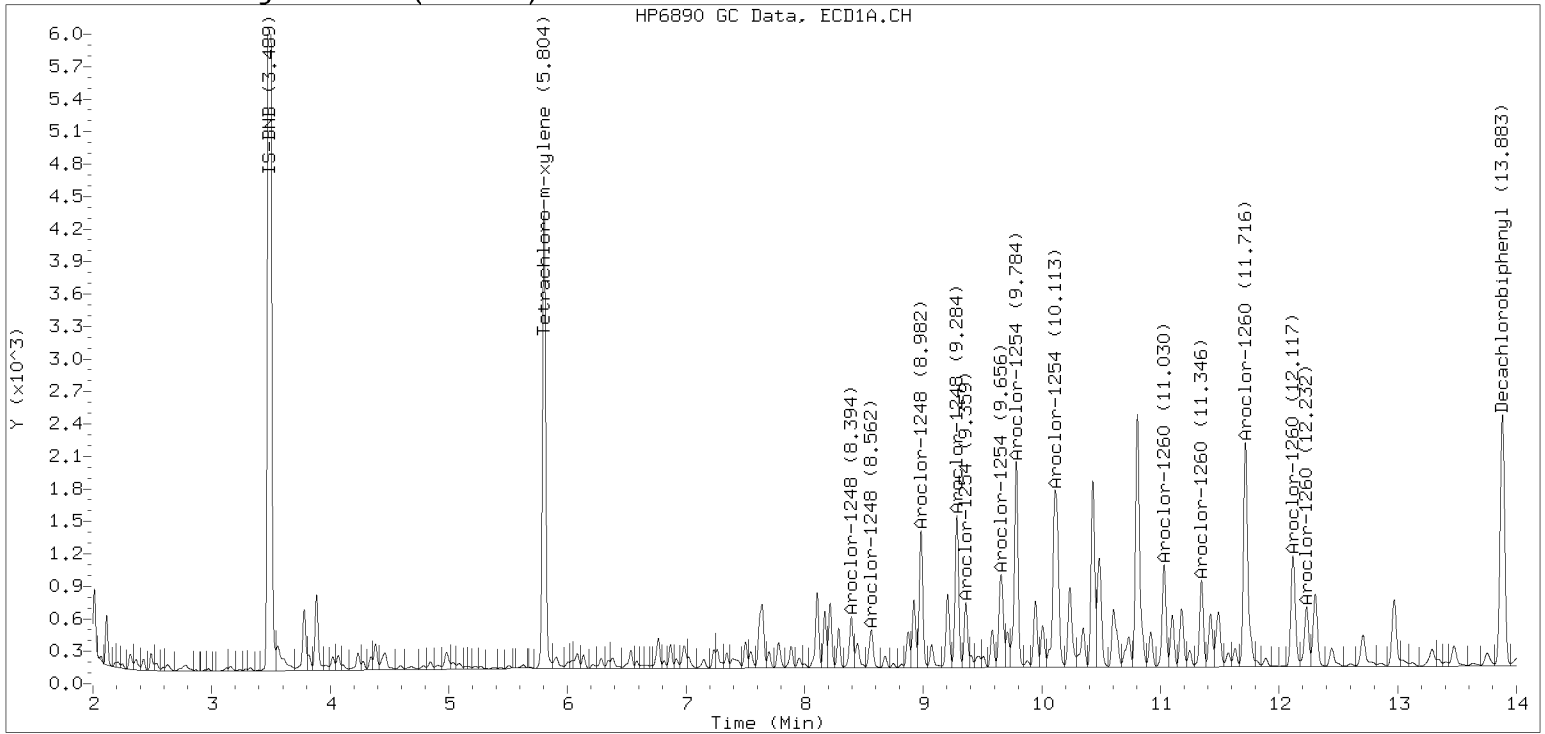
ZB-35 Manual Integration: YES

Manual Peak Adjustment, ZB-5

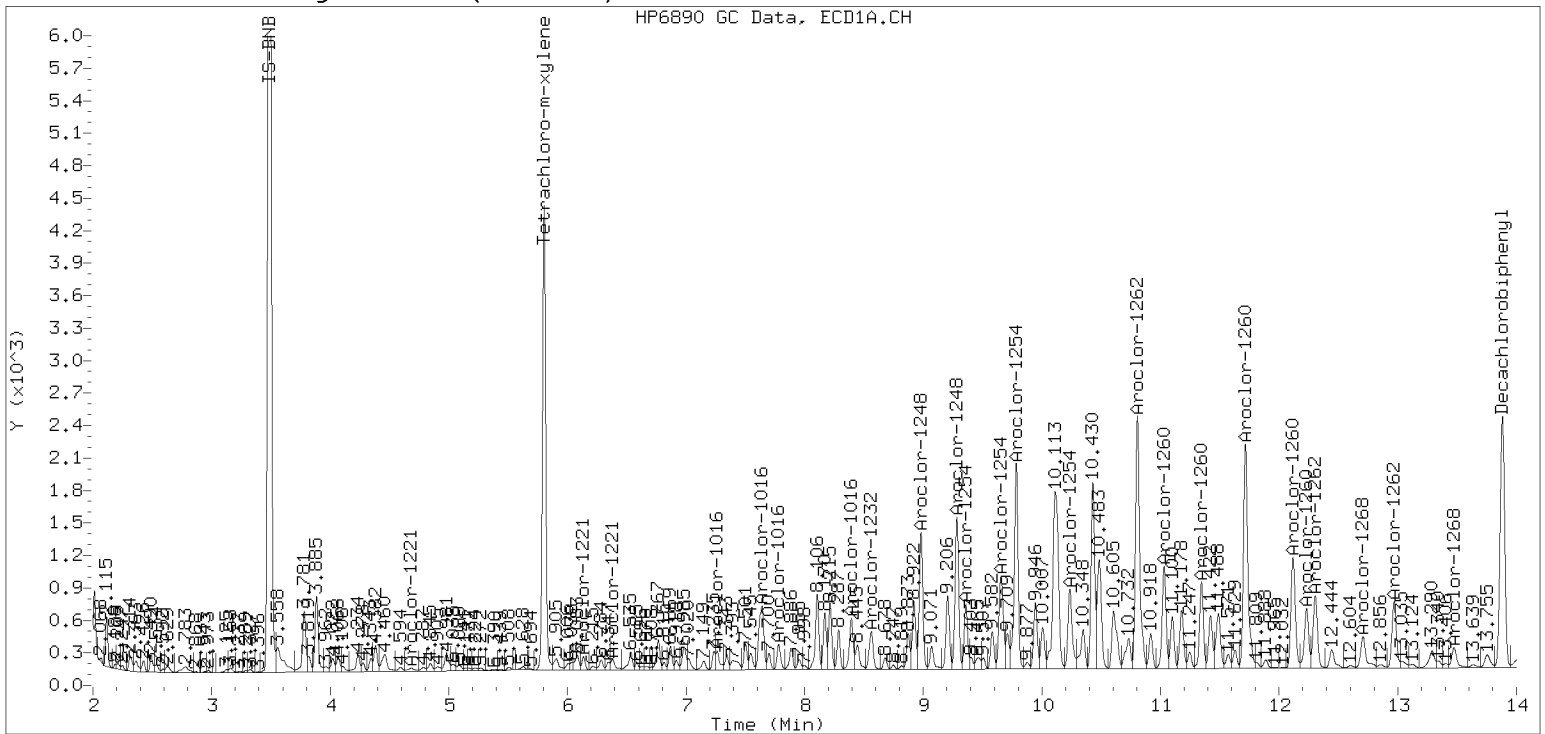
Datafile: ecd7.i/230204.b/02042322ECD7.D

Injection Date: 04-FEB-2023 23:18

Manual Integration (After)



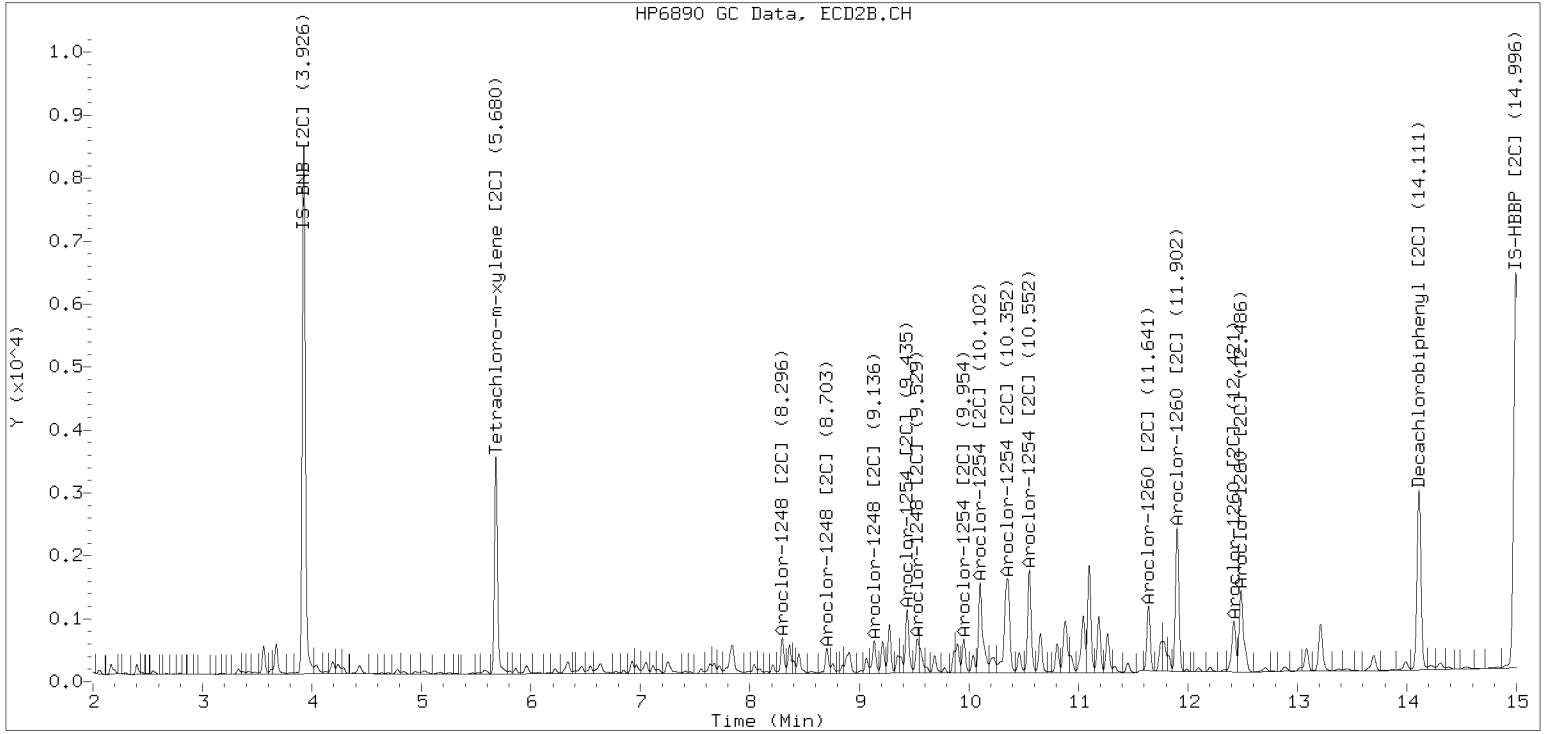
Processed Integration (Before)



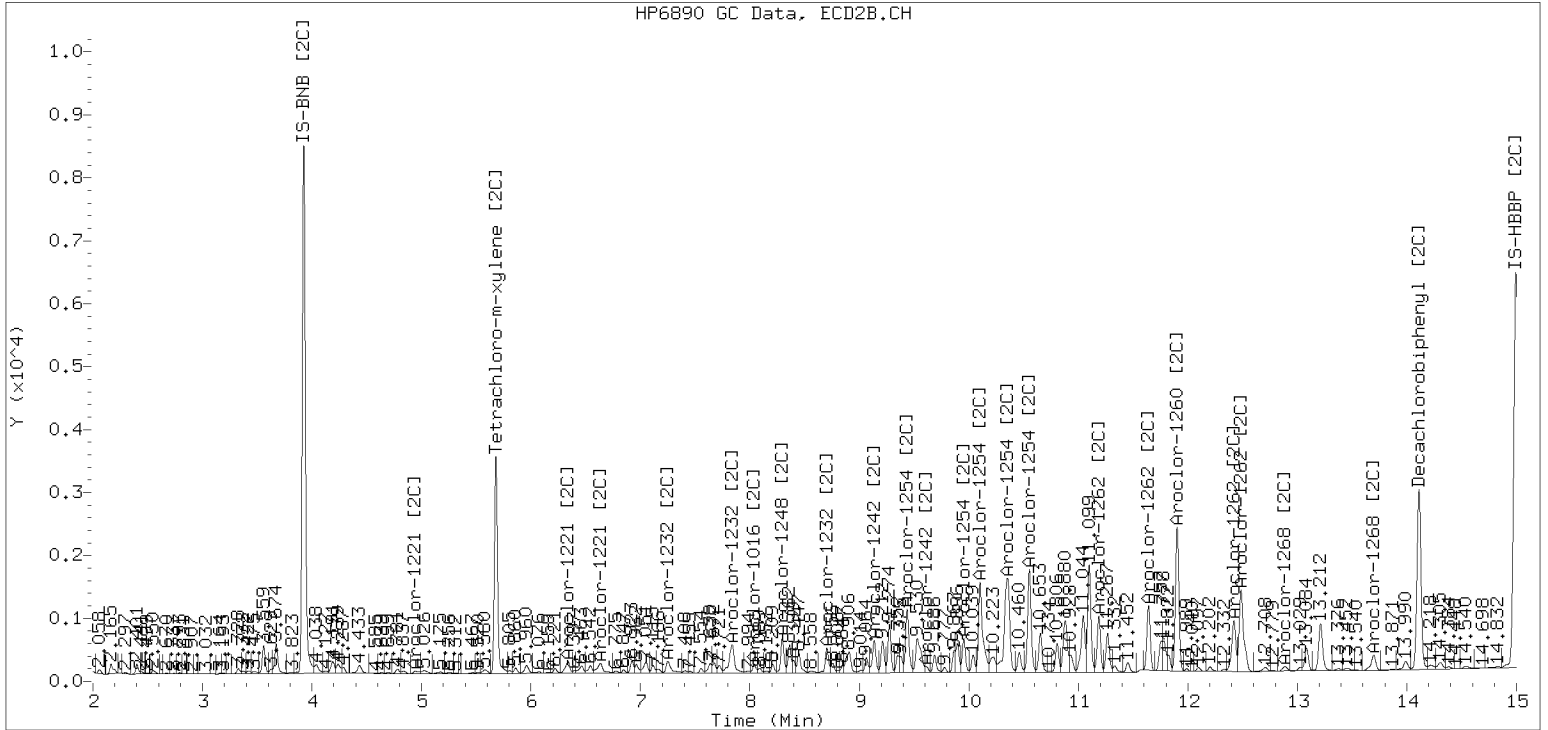
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230204.b/230204.b/02042322ECD7.D Injection Date: 04-FEB-2023

Manual Integration (After)



Processed Integration (Before)







Dual Column

LDW23-SS1239

ORGANIC ANALYSIS DATA SHEET  
EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 23A0179  
Client: Anchor QEA, LLC  
Project: AOC5 MR Phase 1  
Matrix: Solid Laboratory ID: 23A0179-05 A File ID: 02042323ECD7.D  
Sampled: 01/10/23 09:35 Prepared: 01/26/23 11:26 Analyzed: 02/04/23 23:39  
% Solids: 67.40 Preparation: EPA 3546 (Microwave) Initial/Final: 18.55 g Wet / 2.5 mL  
Batch: BLA0558 Sequence: SLB0084 Calibration: GA00061  
Instrument: ECD7 Column 1: ZB5 Column 2: ZB35

| CAS NO.    | COMPOUND     | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 11104-28-2 | Aroclor 1221 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 11141-16-5 | Aroclor 1232 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 53469-21-9 | Aroclor 1242 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 12672-29-6 | Aroclor 1248 | 2     | 1        | 22.4              | 1.6 | 4.0 |   |
| 11097-69-1 | Aroclor 1254 | 2     | 1        | 34.8              | 1.6 | 4.0 |   |
| 11096-82-5 | Aroclor 1260 | 2     | 1        | 18.3              | 0.6 | 4.0 |   |

| SURROGATES                   | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i>    | 1     | 7.9983            | 5.96             | 74.5  | 40 - 126  |   |
| <i>Tetrachlorometaxylene</i> | 1     | 7.9983            | 5.77             | 72.1  | 44 - 120  |   |
| <i>Decachlorobiphenyl</i>    | 2     | 7.9983            | 5.80             | 72.5  | 40 - 126  |   |
| <i>Tetrachlorometaxylene</i> | 2     | 7.9983            | 6.43             | 80.3  | 44 - 120  |   |

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042323ECD7.D  
Data file 2: /230204.b/230204.b/02042323ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 23A0179-05  
Client ID:  
Injection Date: 04-FEB-2023 23:39  
Report Date: 02/06/2023 16:44  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.804   | -0.002 | 178976   | 5.681  | -0.003 | 148419   | 28.9   | 32.1 | 10.8          | Tetrachloro-m-xylene |
| 13.883  | -0.005 | 134135   | 14.112 | -0.003 | 158860   | 29.8   | 29.0 | 2.6           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 438820      | -12.8 |
| Hexabromobiphenyl  | 647433         | 421110      | -35.0 |

| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 341604      | 1.4  |
| Hexabromobiphenyl  | 382032         | 344940      | -9.7 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |       | ZB35 Col                 |       |        |        |       |          |  |
|--------------------------|-------|--------|--------|-------|--------------------------|-------|--------|--------|-------|----------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area  | Amount                   | Peak# | RT     | Shift  | Area  | Amount   |  |
| Aroclor-1016             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1016             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1016             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| Aroclor-1016             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |
| Aroclor-1221             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1221             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1221             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |
| Aroclor-1232             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1232             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1232             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| Aroclor-1232             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |
| Aroclor-1242             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1242             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1242             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| Aroclor-1242             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |
| Aroclor-1248             | 1     | 8.395  | -0.005 | 17564 | 80.0                     | 1     | 8.297  | -0.005 | 20494 | 132.7    |  |
| Aroclor-1248             | 2     | 8.562  | -0.010 | 11851 | 42.3                     | 2     | 8.703  | -0.006 | 15975 | 96.1     |  |
| Aroclor-1248             | 3     | 8.983  | -0.008 | 47410 | 88.5                     | 3     | 9.136  | -0.015 | 19787 | 97.4     |  |
| Aroclor-1248             | 4     | 9.284  | -0.007 | 59807 | 225.6                    | 4     | 9.530  | -0.044 | 30401 | 121.0    |  |
| Total CollAve (4 peaks): |       |        |        | 109.1 | Total Col2Ave (4 peaks): |       |        |        | 111.8 | RPD = 2  |  |
| Corrected Ave (3 peaks): |       |        |        | 70.3  | Corrected Ave (3 peaks): |       |        |        | 104.9 | RPD = 39 |  |
| Aroclor-1254             | 1     | 9.284  | -0.009 | 59807 | 133.7                    | 1     | 9.436  | -0.006 | 43202 | 174.3    |  |
| Aroclor-1254             | 2     | 9.360  | -0.009 | 24578 | 128.7                    | 2     | 9.954  | -0.008 | 24337 | 121.5    |  |
| Aroclor-1254             | 3     | 9.652  | -0.008 | 40719 | 142.1                    | 3     | 10.103 | -0.010 | 76722 | 175.6    |  |
| Aroclor-1254             | 4     | 9.784  | -0.014 | 80712 | 143.7                    | 4     | 10.343 | -0.019 | 84646 | 193.7    |  |
| Aroclor-1254             | 5     | 10.122 | -0.035 | 87652 | 240.1                    | 5     | 10.552 | -0.009 | 49993 | 205.4    |  |
| Total CollAve (5 peaks): |       |        |        | 157.7 | Total Col2Ave (5 peaks): |       |        |        | 174.1 | RPD = 10 |  |
| Corrected Ave (4 peaks): |       |        |        | 137.1 | Corrected Ave (4 peaks): |       |        |        | 166.3 | RPD = 19 |  |
| Aroclor-1260             | 1     | 11.030 | -0.008 | 17308 | 73.3                     | 1     | 11.641 | -0.006 | 26794 | 107.7    |  |
| Aroclor-1260             | 2     | 11.347 | -0.008 | 15876 | 65.4                     | 2     | 11.902 | -0.009 | 40957 | 65.1     |  |
| Aroclor-1260             | 3     | 11.717 | -0.011 | 45901 | 71.8                     | 3     | 12.420 | -0.010 | 18921 | 120.6    |  |
| Aroclor-1260             | 4     | 12.118 | -0.013 | 23884 | 72.3                     | 4     | 12.486 | -0.009 | 29489 | 72.4     |  |
| Aroclor-1260             | 5     | 12.232 | -0.007 | 10432 | 72.4                     | NS    | ---    |        |       | ---      |  |
| Total CollAve (5 peaks): |       |        |        | 71.0  | Total Col2Ave (4 peaks): |       |        |        | 91.4  | RPD = 25 |  |
| Corrected Ave (4 peaks): |       |        |        | 70.5  | Corrected Ave (3 peaks): |       |        |        | 81.7  | RPD = 15 |  |
| Aroclor-1262             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1262             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1262             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| Aroclor-1262             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |
| Aroclor-1268             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1268             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1268             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| Aroclor-1268             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |

Total PCB Area Col1 (5.906 - 13.788) = 1175363 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.784 - 14.016) = 1055672 Col2 Total PCB = 0.3 ppm\*

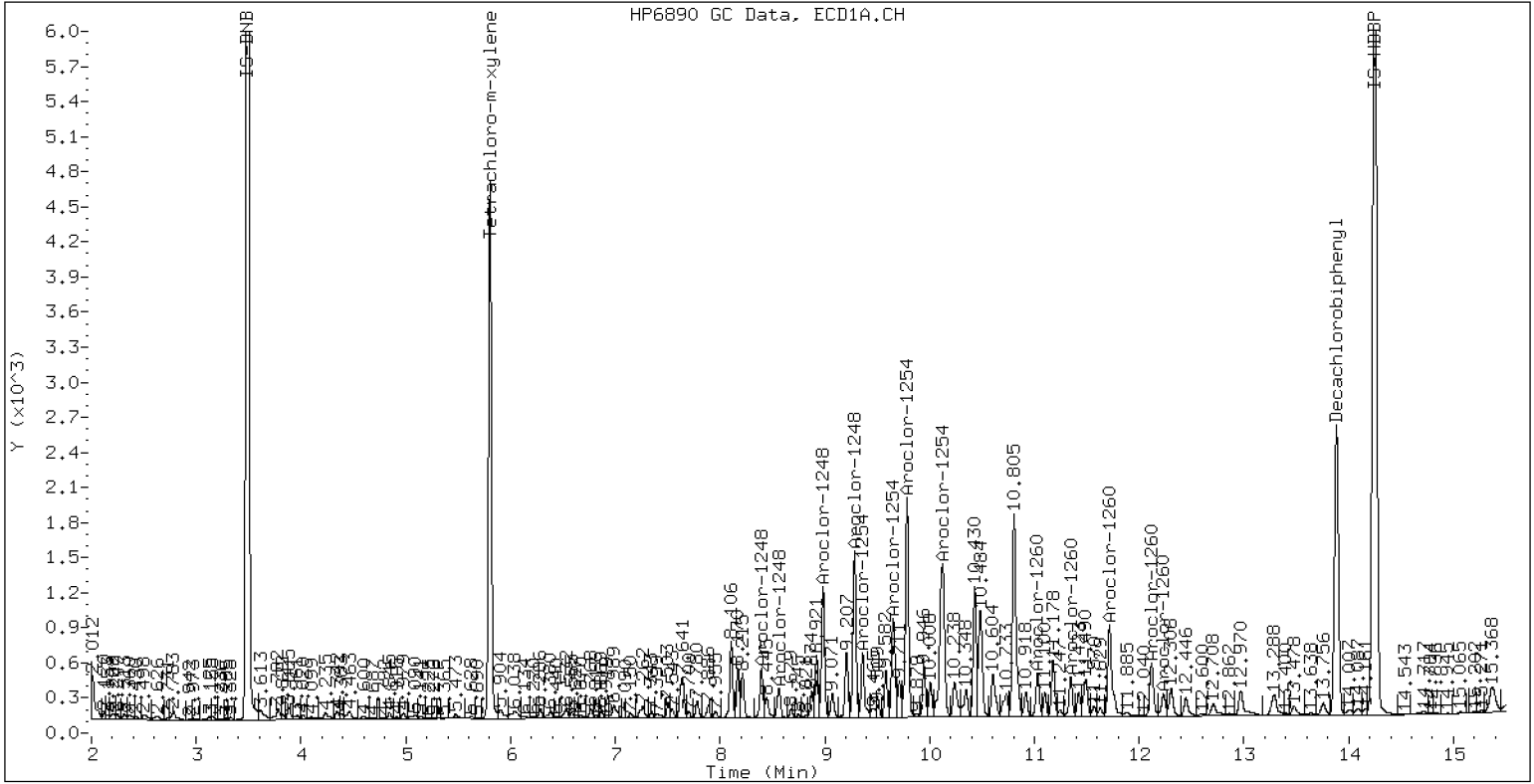
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 23A0179-05

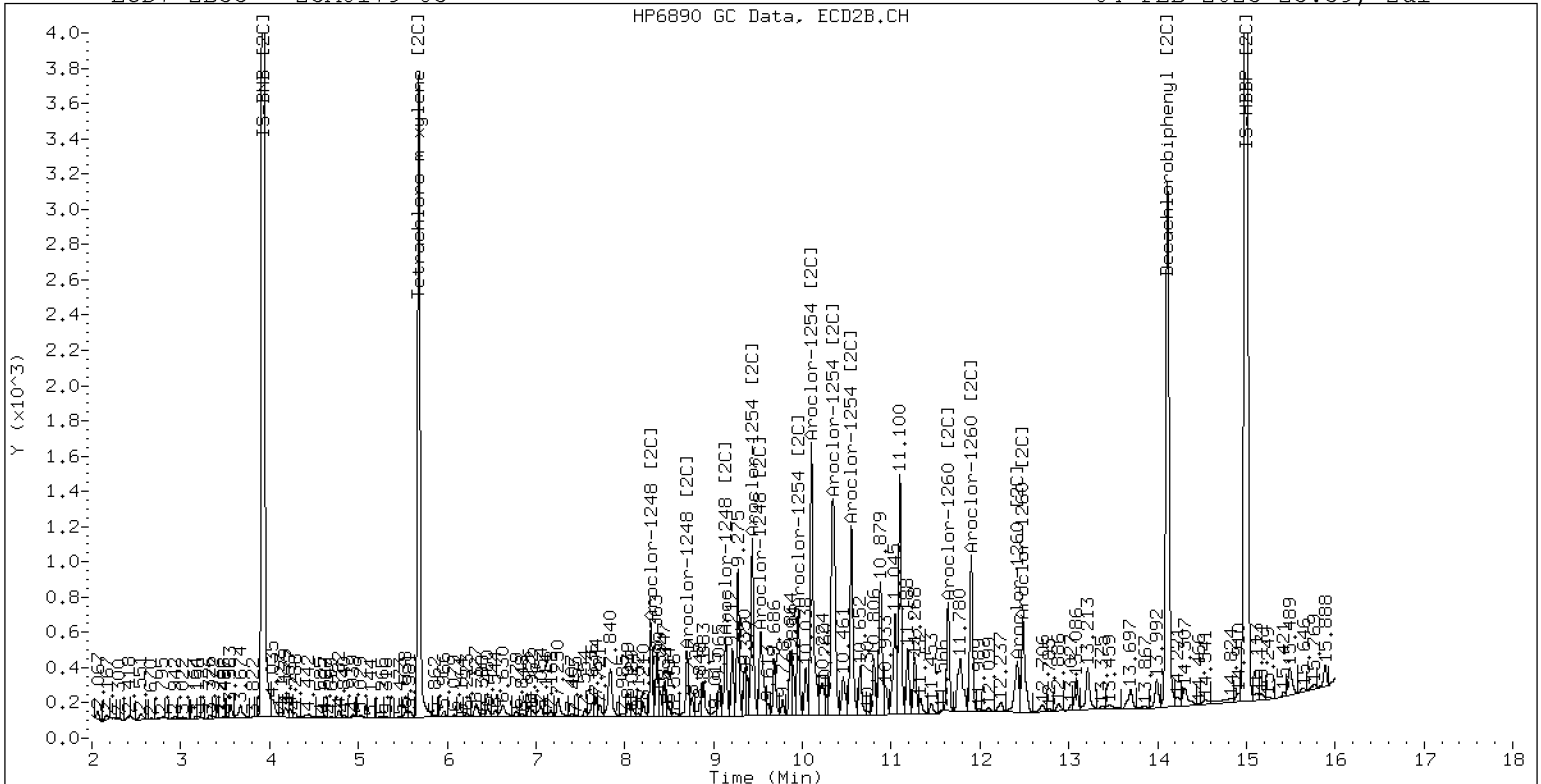
04-FEB-2023 23:39, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 23A0179-05

04-FEB-2023 23:39, 2ul

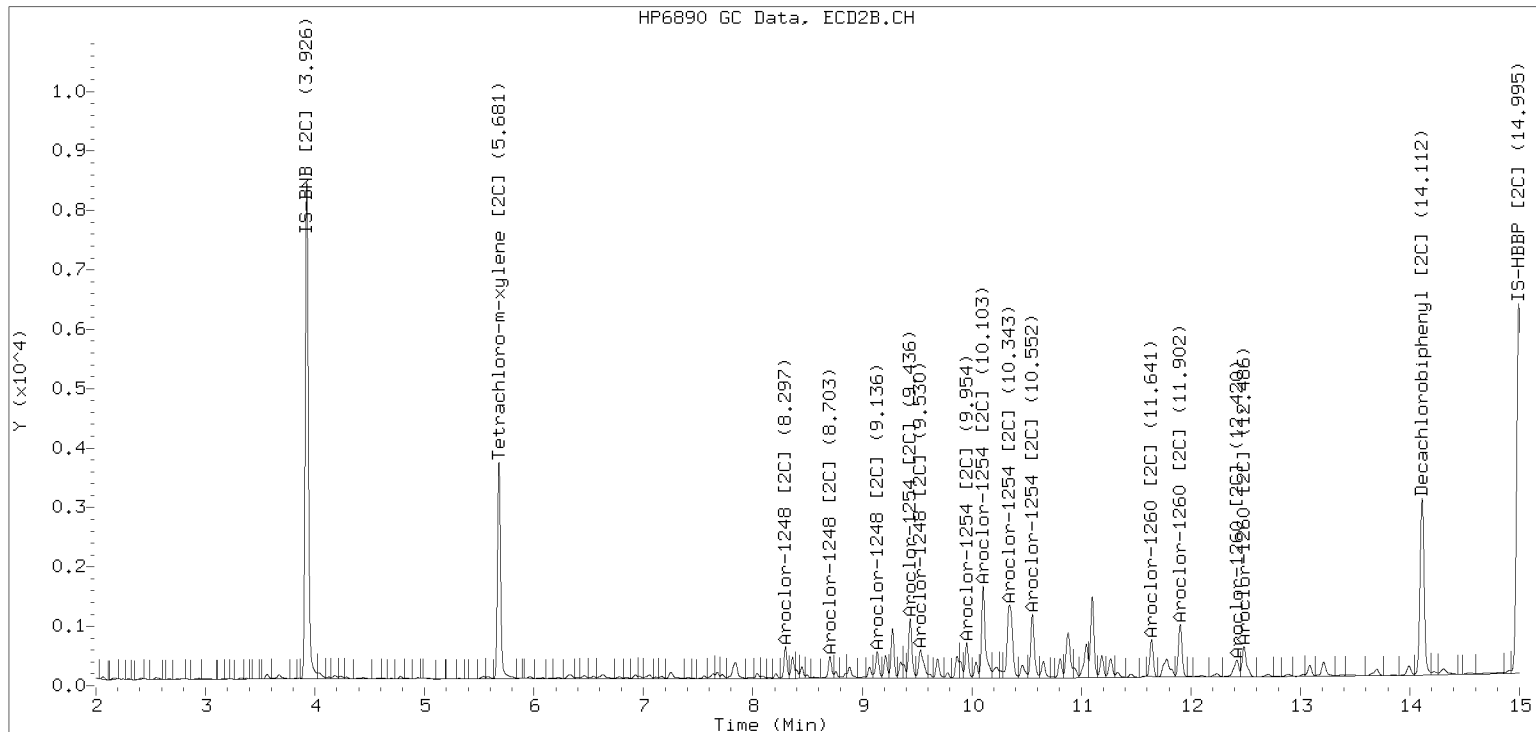


ZB-35 Manual Integration: YES

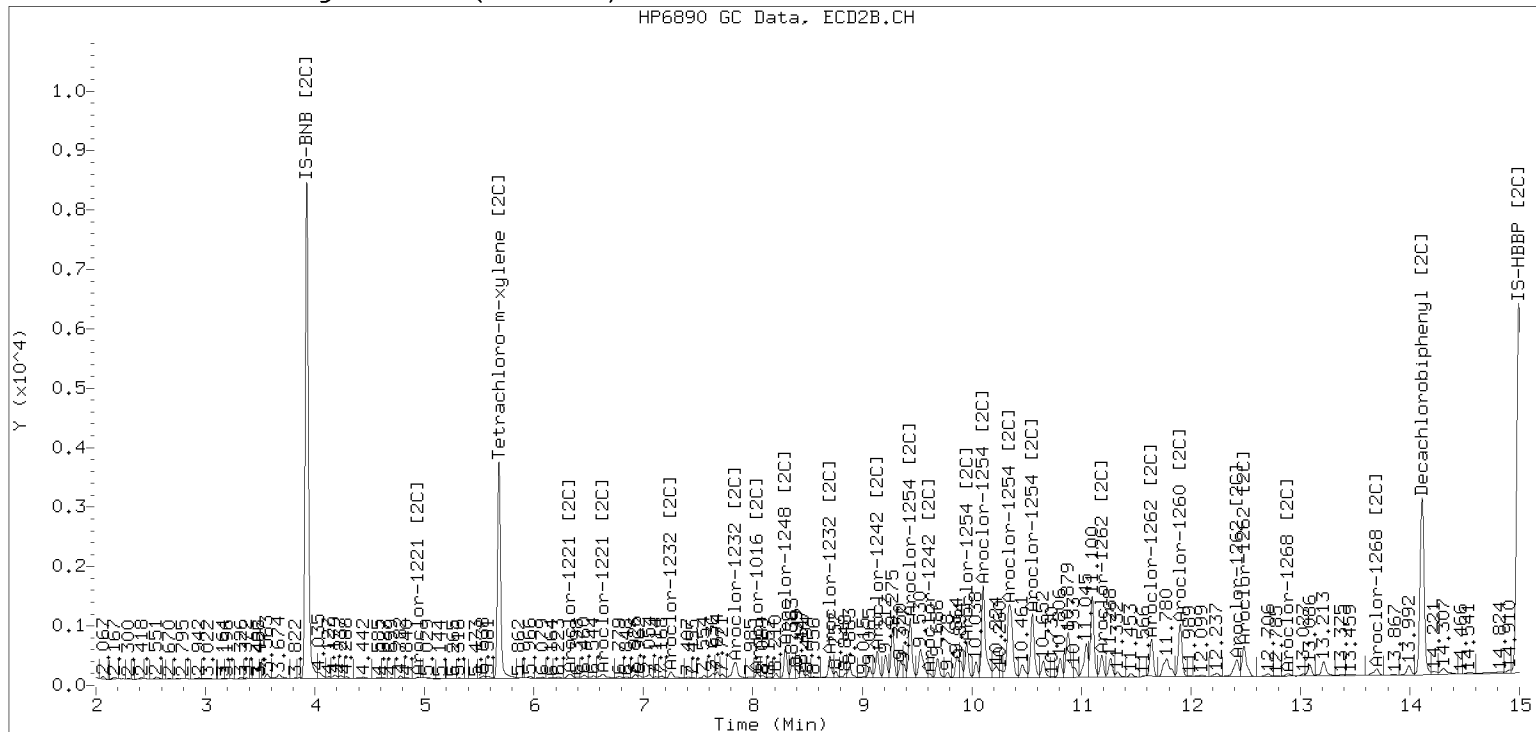
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230204.b/230204.b/02042323ECD7.D Injection Date: 04-FEB-2023

Manual Integration (After)



Processed Integration (Before)





**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: 23A0179-06 A

File ID: 02042324ECD7.D

Sampled: 01/10/23 09:54

Prepared: 01/26/23 11:26

Analyzed: 02/05/23 00:00

% Solids: 53.98

Preparation: EPA 3546 (Microwave)

Initial/Final: 23.2 g Wet / 2.5 mL

Batch: BLA0558

Sequence: SLB0084

Calibration: GA00061

Instrument: ECD7

Column 1: ZB5

Column 2: ZB35

| CAS NO.    | COMPOUND     | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 11104-28-2 | Aroclor 1221 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 11141-16-5 | Aroclor 1232 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 53469-21-9 | Aroclor 1242 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 12672-29-6 | Aroclor 1248 | 1     | 1        | 30.7              | 1.6 | 4.0 |   |
| 11097-69-1 | Aroclor 1254 | 2     | 1        | 44.8              | 1.6 | 4.0 |   |
| 11096-82-5 | Aroclor 1260 | 2     | 1        | 27.7              | 0.6 | 4.0 |   |

| SURROGATES                   | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i>    | 1     | 7.9851            | 5.71             | 71.5  | 40 - 126  |   |
| <i>Tetrachlorometaxylene</i> | 1     | 7.9851            | 5.27             | 66.0  | 44 - 120  |   |
| <i>Decachlorobiphenyl</i>    | 2     | 7.9851            | 5.42             | 67.9  | 40 - 126  |   |
| <i>Tetrachlorometaxylene</i> | 2     | 7.9851            | 6.04             | 75.6  | 44 - 120  |   |

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042324ECD7.D  
Data file 2: /230204.b/230204.b/02042324ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 23A0179-06  
Client ID:  
Injection Date: 05-FEB-2023 00:00  
Report Date: 02/06/2023 16:44  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.804   | -0.002 | 166739   | 5.680  | -0.004 | 141156   | 26.4   | 30.2 | 13.5          | Tetrachloro-m-xylene |
| 13.883  | -0.005 | 128040   | 14.111 | -0.005 | 152058   | 28.6   | 27.1 | 5.2           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |       |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 446889      | -11.2 |
| Hexabromobiphenyl  | 647433         | 418747      | -35.3 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 345378      | 2.5  |
| Hexabromobiphenyl  | 382032         | 352939      | -7.6 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                  |       |        |        |        | ZB35 Col                 |       |        |        |        |          |  |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|----------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                   | Peak# | RT     | Shift  | Area   | Amount   |  |
| Aroclor-1016             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1016             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1016             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1016             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1221             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1221             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1221             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1232             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1232             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1232             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1232             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1242             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1242             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1242             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1242             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1248             | 1     | 8.394  | -0.006 | 30149  | 134.9                    | 1     | 8.296  | -0.006 | 26532  | 169.9    |  |
| Aroclor-1248             | 2     | 8.562  | -0.010 | 25690  | 90.1                     | 2     | 8.703  | -0.006 | 25886  | 154.0    |  |
| Aroclor-1248             | 3     | 8.980  | -0.011 | 69086  | 126.6                    | 3     | 9.135  | -0.016 | 35905  | 174.9    |  |
| Aroclor-1248             | 4     | 9.283  | -0.007 | 71316  | 264.1                    | 4     | 9.529  | -0.045 | 26909  | 106.0    |  |
| Total CollAve (4 peaks): |       |        |        | 153.9  | Total Col2Ave (4 peaks): |       |        |        | 151.2  | RPD = 2  |  |
| Corrected Ave (3 peaks): |       |        |        | 117.2  | Corrected Ave (3 peaks): |       |        |        | 143.3  | RPD = 20 |  |
| Aroclor-1254             | 1     | 9.283  | -0.009 | 71316  | 156.6                    | 1     | 9.435  | -0.008 | 53264  | 212.6    |  |
| Aroclor-1254             | 2     | 9.359  | -0.011 | 28469  | 146.4                    | 2     | 9.953  | -0.009 | 29487  | 145.6    |  |
| Aroclor-1254             | 3     | 9.655  | -0.006 | 59763  | 204.8                    | 3     | 10.101 | -0.012 | 90938  | 205.8    |  |
| Aroclor-1254             | 4     | 9.784  | -0.015 | 101602 | 177.7                    | 4     | 10.344 | -0.018 | 118540 | 268.3    |  |
| Aroclor-1254             | 5     | 10.120 | -0.037 | 118385 | 318.4                    | 5     | 10.551 | -0.010 | 71504  | 290.6    |  |
| Total CollAve (5 peaks): |       |        |        | 200.8  | Total Col2Ave (5 peaks): |       |        |        | 224.6  | RPD = 11 |  |
| Corrected Ave (4 peaks): |       |        |        | 171.4  | Corrected Ave (4 peaks): |       |        |        | 208.1  | RPD = 19 |  |
| Aroclor-1260             | 1     | 11.030 | -0.008 | 30347  | 129.2                    | 1     | 11.640 | -0.007 | 37412  | 146.9    |  |
| Aroclor-1260             | 2     | 11.345 | -0.010 | 24501  | 101.4                    | 2     | 11.901 | -0.010 | 69310  | 107.6    |  |
| Aroclor-1260             | 3     | 11.716 | -0.012 | 75000  | 118.0                    | 3     | 12.420 | -0.010 | 29047  | 180.9    |  |
| Aroclor-1260             | 4     | 12.116 | -0.014 | 39281  | 119.6                    | 4     | 12.485 | -0.010 | 49768  | 119.4    |  |
| Aroclor-1260             | 5     | 12.232 | -0.007 | 18024  | 125.9                    | NS    | ---    |        |        | ----     |  |
| Total CollAve (5 peaks): |       |        |        | 118.8  | Total Col2Ave (4 peaks): |       |        |        | 138.7  | RPD = 15 |  |
| Corrected Ave (4 peaks): |       |        |        | 116.2  | Corrected Ave (3 peaks): |       |        |        | 124.6  | RPD = 7  |  |
| Aroclor-1262             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1262             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1262             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1262             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1268             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1268             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1268             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1268             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |

Total PCB Area Col1 (5.906 - 13.788) = 1897261 Col1 Total PCB = 0.4 ppm\*

Total PCB Area Col2 (5.784 - 14.016) = 1664590 Col2 Total PCB = 0.5 ppm\*

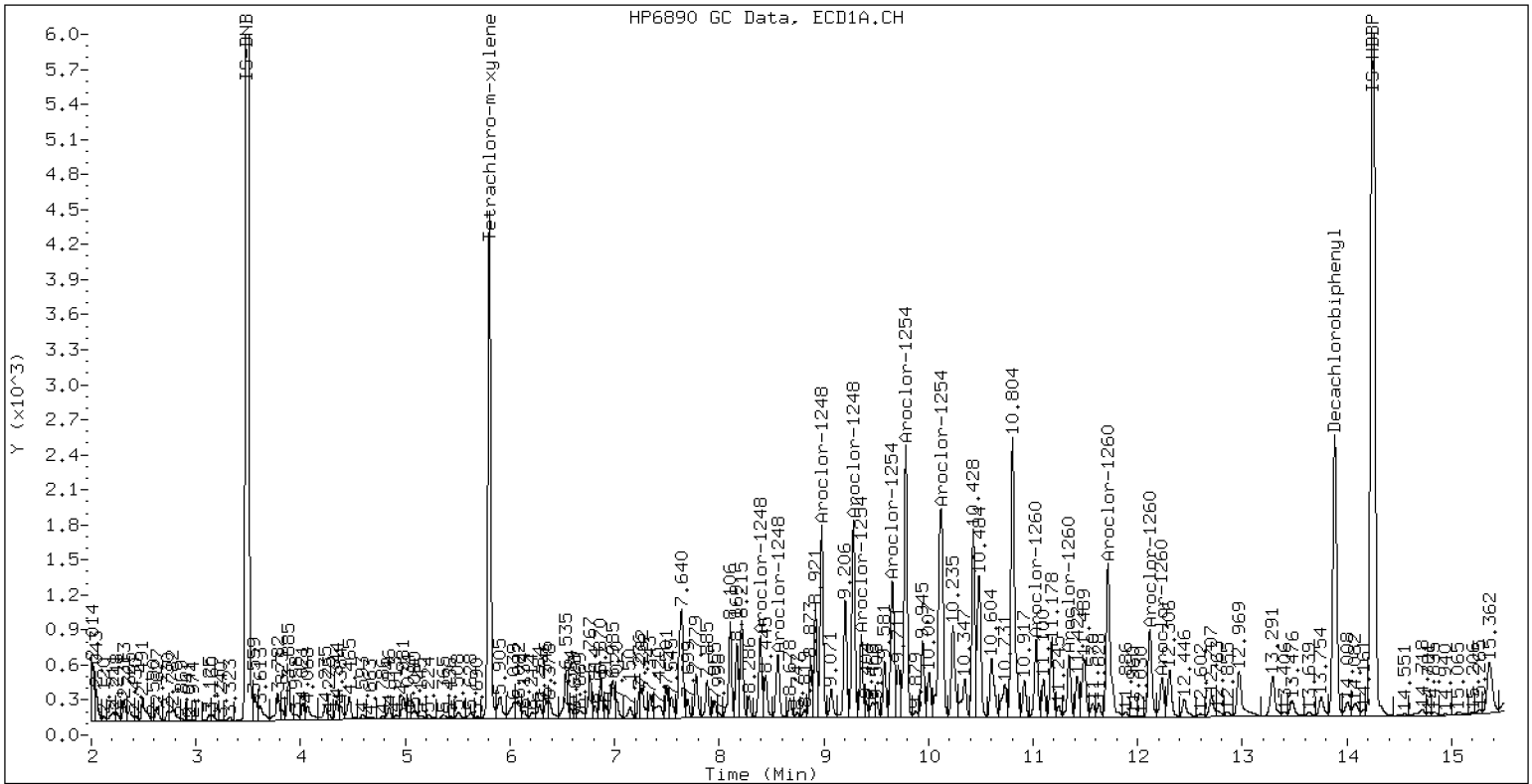
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 23A0179-06

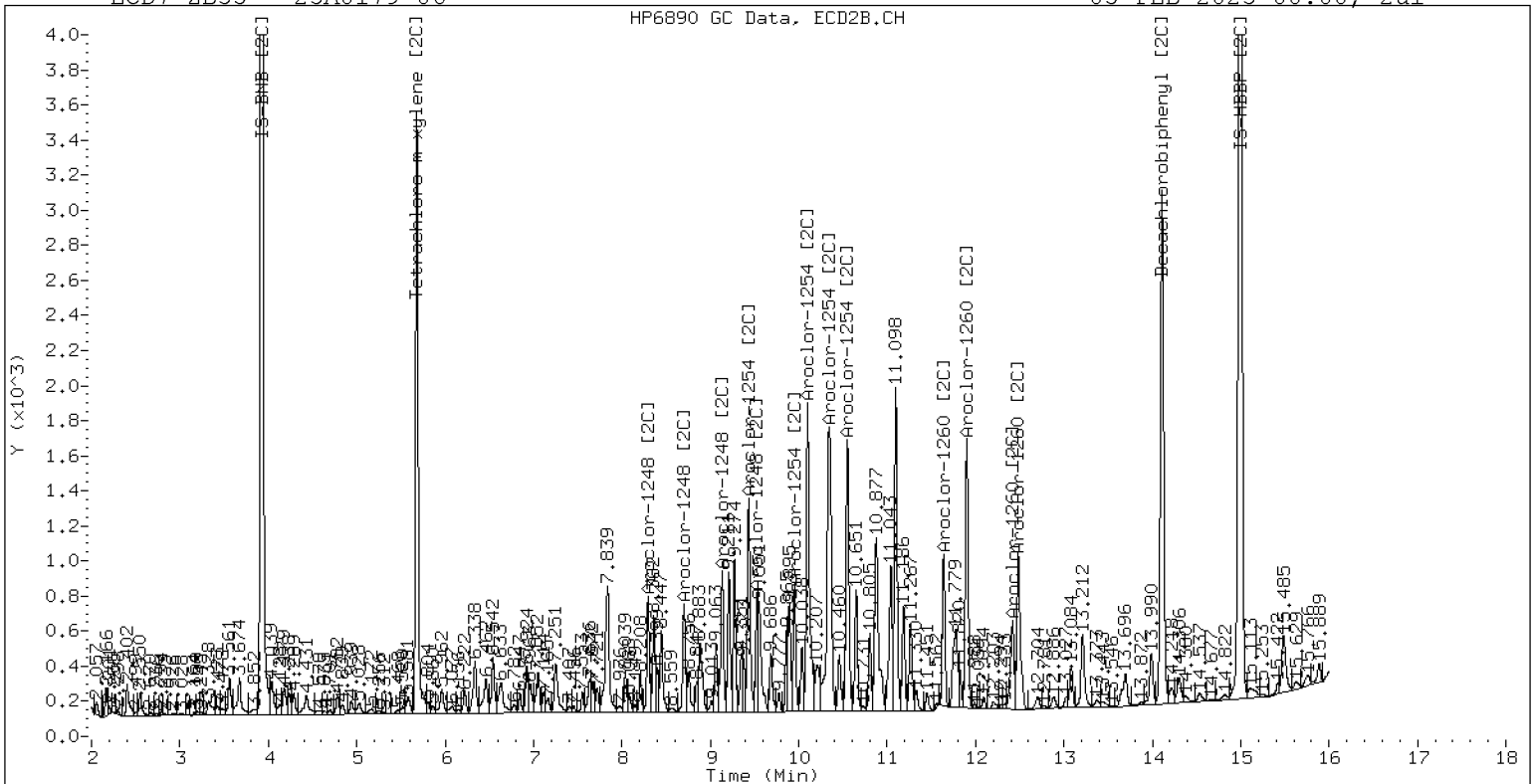
05-FEB-2023 00:00, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 23A0179-06

05-FEB-2023 00:00, 2ul

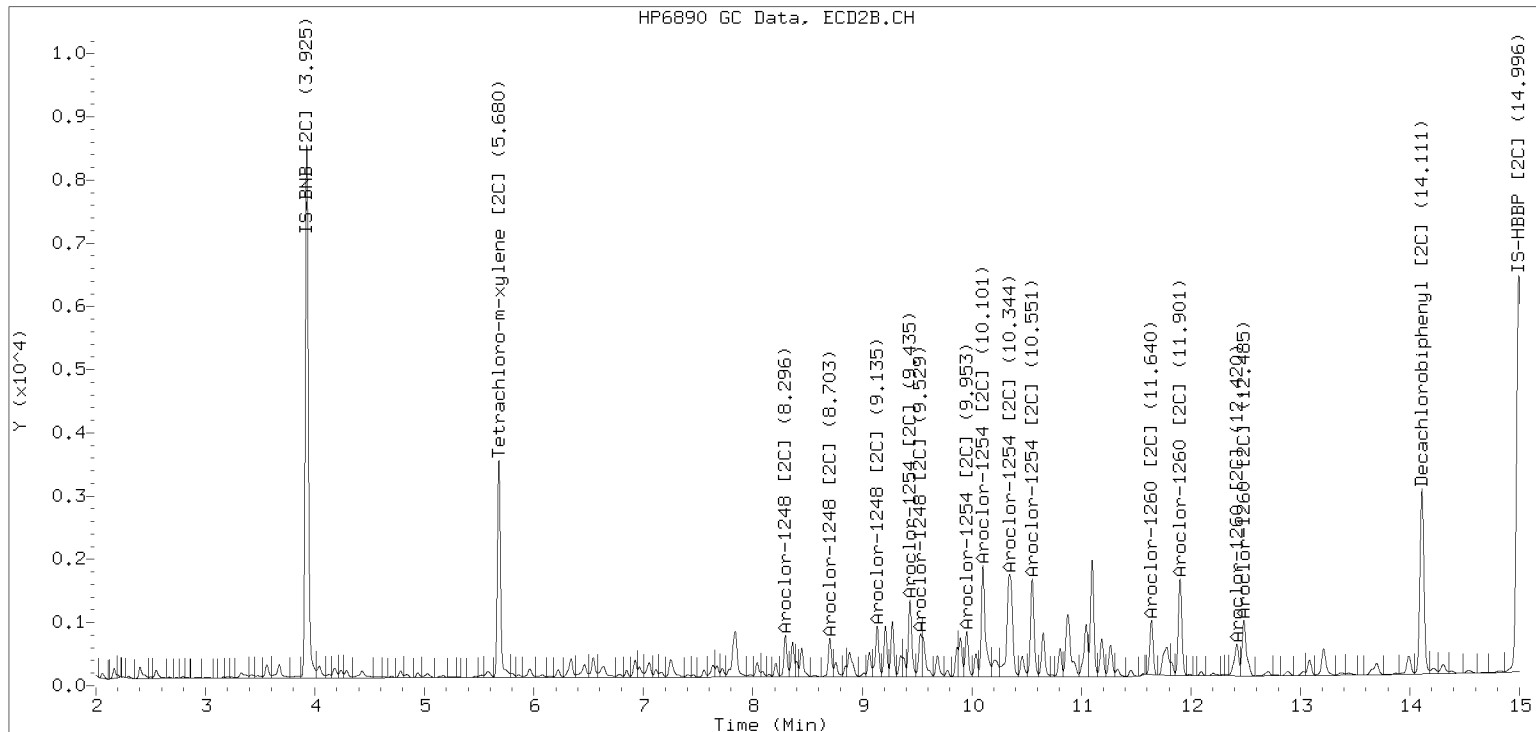


ZB-35 Manual Integration: YES

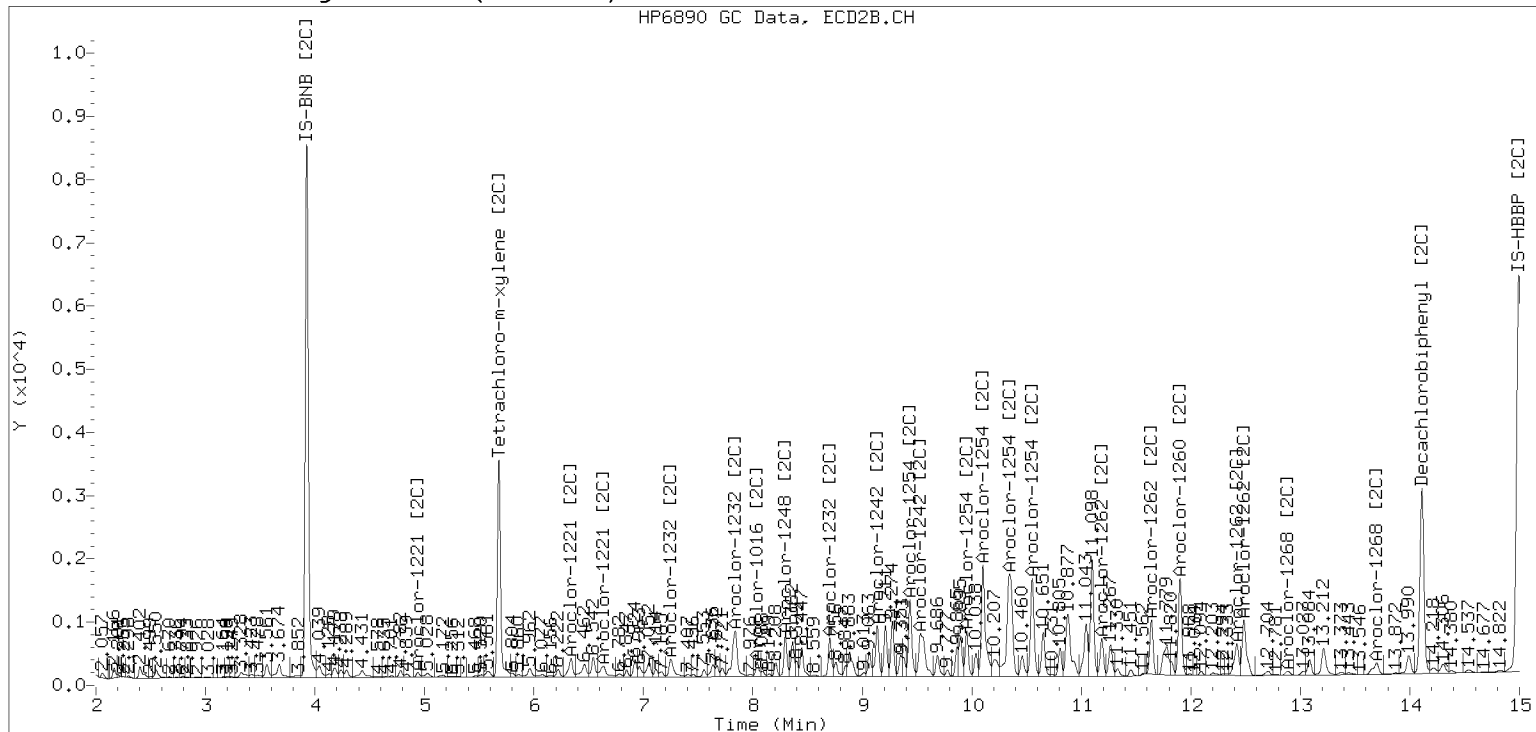
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230204.b/230204.b/02042324ECD7.D Injection Date: 05-FEB-2023

Manual Integration (After)



Processed Integration (Before)





**Dual Column**

**LDW23-SS1200**

**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8082A**

|  |  |
|--|--|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0179</u>                        |
| Client: <u>Anchor QEA, LLC</u>               |  |
| Project: <u>AOC5 MR Phase 1</u>              |  |
| Matrix: <u>Solid</u>                         | Laboratory ID: <u>23A0179-07 A</u>         |
| Sampled: <u>01/10/23 10:10</u>               | Prepared: <u>01/26/23 11:26</u>            |
| % Solids: <u>74.59</u>                       | Preparation: <u>EPA 3546 (Microwave)</u>   |
| Batch: <u>BLA0558</u>                        | Sequence: <u>SLB0084</u>                   |
| Instrument: <u>ECD7</u>                      | Column 1: <u>ZB5</u>                       |
|  | Column 2: <u>ZB35</u>                      |
|  | File ID: <u>02042325ECD7.D</u>             |
|  | Analyzed: <u>02/05/23 00:21</u>            |
|  | Initial/Final: <u>16.77 g Wet / 2.5 mL</u> |
|  | Calibration: <u>GA00061</u>                |

| CAS NO.    | COMPOUND     | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 11104-28-2 | Aroclor 1221 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 11141-16-5 | Aroclor 1232 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 53469-21-9 | Aroclor 1242 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 12672-29-6 | Aroclor 1248 | 2     | 1        | 6.4               | 1.6 | 4.0 |   |
| 11097-69-1 | Aroclor 1254 | 2     | 1        | 9.6               | 1.6 | 4.0 |   |
| 11096-82-5 | Aroclor 1260 | 2     | 1        | 7.1               | 0.6 | 4.0 |   |

| SURROGATES                   | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i>    | 1     | 7.9944            | 6.04             | 75.6  | 40 - 126  |   |
| <i>Tetrachlorometaxylene</i> | 1     | 7.9944            | 5.87             | 73.4  | 44 - 120  |   |
| <i>Decachlorobiphenyl</i>    | 2     | 7.9944            | 5.79             | 72.4  | 40 - 126  |   |
| <i>Tetrachlorometaxylene</i> | 2     | 7.9944            | 6.73             | 84.1  | 44 - 120  |   |

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042325ECD7.D  
Data file 2: /230204.b/230204.b/02042325ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 23A0179-07  
Client ID:  
Injection Date: 05-FEB-2023 00:21  
Report Date: 02/06/2023 16:44  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        |          | ZB35 Col |        |          | ZB5    | ZB35   | RPD  | Compound/Flag        |
|---------|--------|----------|----------|--------|----------|--------|--------|------|----------------------|
| RT      | Shift  | Response | RT       | Shift  | Response | on col | on col |      |                      |
| 5.805   | -0.001 | 187083   | 5.682    | -0.002 | 157699   | 29.4   | 33.7   | 13.6 | Tetrachloro-m-xylene |
| 13.886  | -0.003 | 139713   | 14.112   | -0.004 | 165363   | 30.2   | 29.0   | 4.3  | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 450847      | -10.4 |
| Hexabromobiphenyl  | 647433         | 432014      | -33.3 |

| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 346633      | 2.9  |
| Hexabromobiphenyl  | 382032         | 359591      | -5.9 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |       | ZB35 Col                 |       |        |        |       |          |  |
|--------------------------|-------|--------|--------|-------|--------------------------|-------|--------|--------|-------|----------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area  | Amount                   | Peak# | RT     | Shift  | Area  | Amount   |  |
| Aroclor-1016             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1016             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1016             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| Aroclor-1016             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |
| Aroclor-1221             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1221             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1221             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |
| Aroclor-1232             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1232             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1232             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| Aroclor-1232             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |
| Aroclor-1242             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1242             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1242             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| Aroclor-1242             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |
| Aroclor-1248             | 1     | 8.394  | -0.005 | 5596  | 24.8                     | 1     | 8.298  | -0.004 | 5734  | 36.6     |  |
| Aroclor-1248             | 2     | 8.563  | -0.010 | 4998  | 17.4                     | 2     | 8.704  | -0.005 | 4395  | 26.1     |  |
| Aroclor-1248             | 3     | 8.983  | -0.008 | 14263 | 25.9                     | 3     | 9.138  | -0.013 | 5664  | 27.5     |  |
| Aroclor-1248             | 4     | 9.285  | -0.005 | 13956 | 51.2                     | 4     | 9.530  | -0.044 | 9735  | 38.2     |  |
| Total CollAve (4 peaks): |       |        |        | 29.8  | Total Col2Ave (4 peaks): |       |        |        | 32.1  | RPD = 7  |  |
| Corrected Ave (3 peaks): |       |        |        | 22.7  | Corrected Ave (3 peaks): |       |        |        | 30.0  | RPD = 28 |  |
| Aroclor-1254             | 1     | 9.285  | -0.008 | 13956 | 30.4                     | 1     | 9.436  | -0.007 | 11514 | 45.8     |  |
| Aroclor-1254             | 2     | 9.360  | -0.010 | 6303  | 32.1                     | 2     | 9.955  | -0.007 | 6319  | 31.1     |  |
| Aroclor-1254             | 3     | 9.658  | -0.002 | 10676 | 36.3                     | 3     | 10.102 | -0.012 | 19309 | 43.5     |  |
| Aroclor-1254             | 4     | 9.785  | -0.013 | 18578 | 32.2                     | 4     | 10.353 | -0.010 | 24001 | 54.1     |  |
| Aroclor-1254             | 5     | 10.114 | -0.044 | 23836 | 63.5                     | 5     | 10.553 | -0.008 | 16316 | 66.1     |  |
| Total CollAve (5 peaks): |       |        |        | 38.9  | Total Col2Ave (5 peaks): |       |        |        | 48.1  | RPD = 21 |  |
| Corrected Ave (4 peaks): |       |        |        | 32.7  | Corrected Ave (4 peaks): |       |        |        | 43.6  | RPD = 29 |  |
| Aroclor-1260             | 1     | 11.032 | -0.006 | 7838  | 32.3                     | 1     | 11.642 | -0.005 | 8926  | 34.4     |  |
| Aroclor-1260             | 2     | 11.347 | -0.008 | 6448  | 25.9                     | 2     | 11.902 | -0.009 | 17494 | 26.7     |  |
| Aroclor-1260             | 3     | 11.717 | -0.011 | 19810 | 30.2                     | 3     | 12.421 | -0.009 | 8459  | 51.7     |  |
| Aroclor-1260             | 4     | 12.118 | -0.013 | 10158 | 30.0                     | 4     | 12.485 | -0.010 | 12846 | 30.2     |  |
| Aroclor-1260             | 5     | 12.233 | -0.006 | 5008  | 33.9                     | NS    | ---    |        |       | ---      |  |
| Total CollAve (5 peaks): |       |        |        | 30.5  | Total Col2Ave (4 peaks): |       |        |        | 35.8  | RPD = 16 |  |
| Corrected Ave (4 peaks): |       |        |        | 29.6  | Corrected Ave (3 peaks): |       |        |        | 30.4  | RPD = 3  |  |
| Aroclor-1262             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1262             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1262             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| Aroclor-1262             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |
| Aroclor-1268             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1268             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1268             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| Aroclor-1268             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |

Total PCB Area Col1 (5.906 - 13.788) = 985354 Col1 Total PCB = 0.2 ppm\*  
Total PCB Area Col2 (5.784 - 14.016) = 673337 Col2 Total PCB = 0.2 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

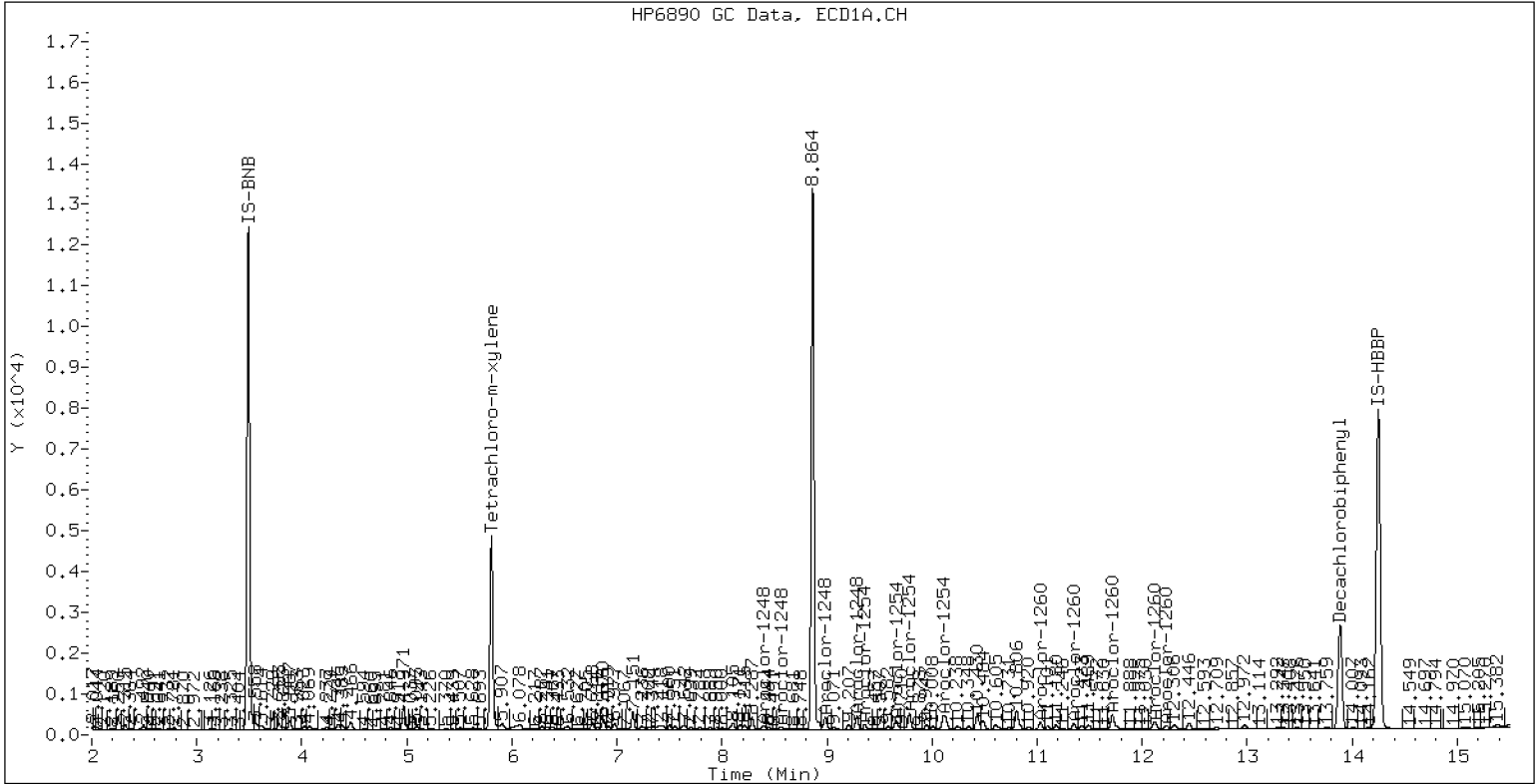
PCB-Form 10 Mod.



PCB Dual Column Chromatograms

ECD7-ZB5 23A0179-07

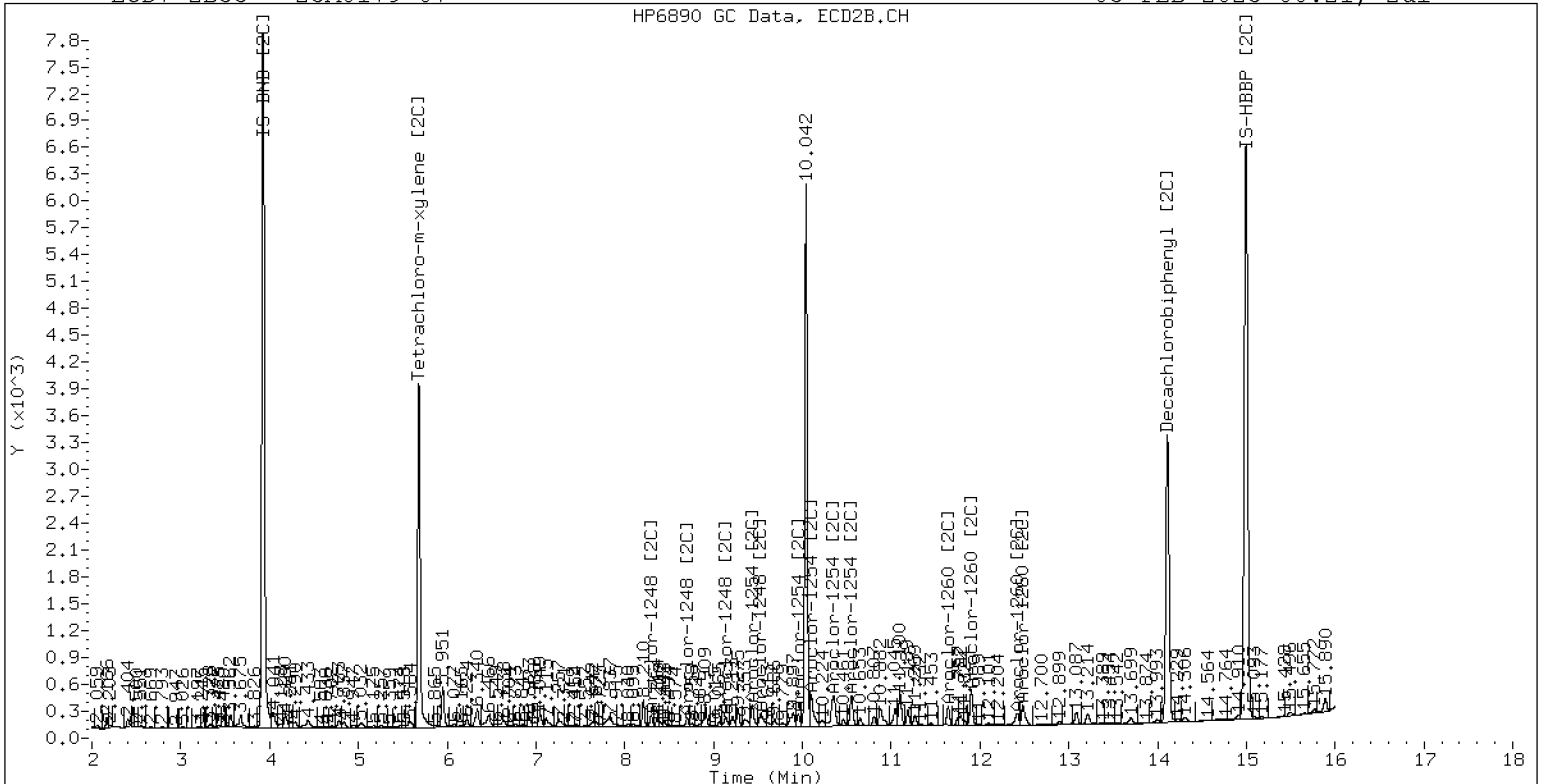
05-FEB-2023 00:21, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23A0179-07

05-FEB-2023 00:21, 2ul



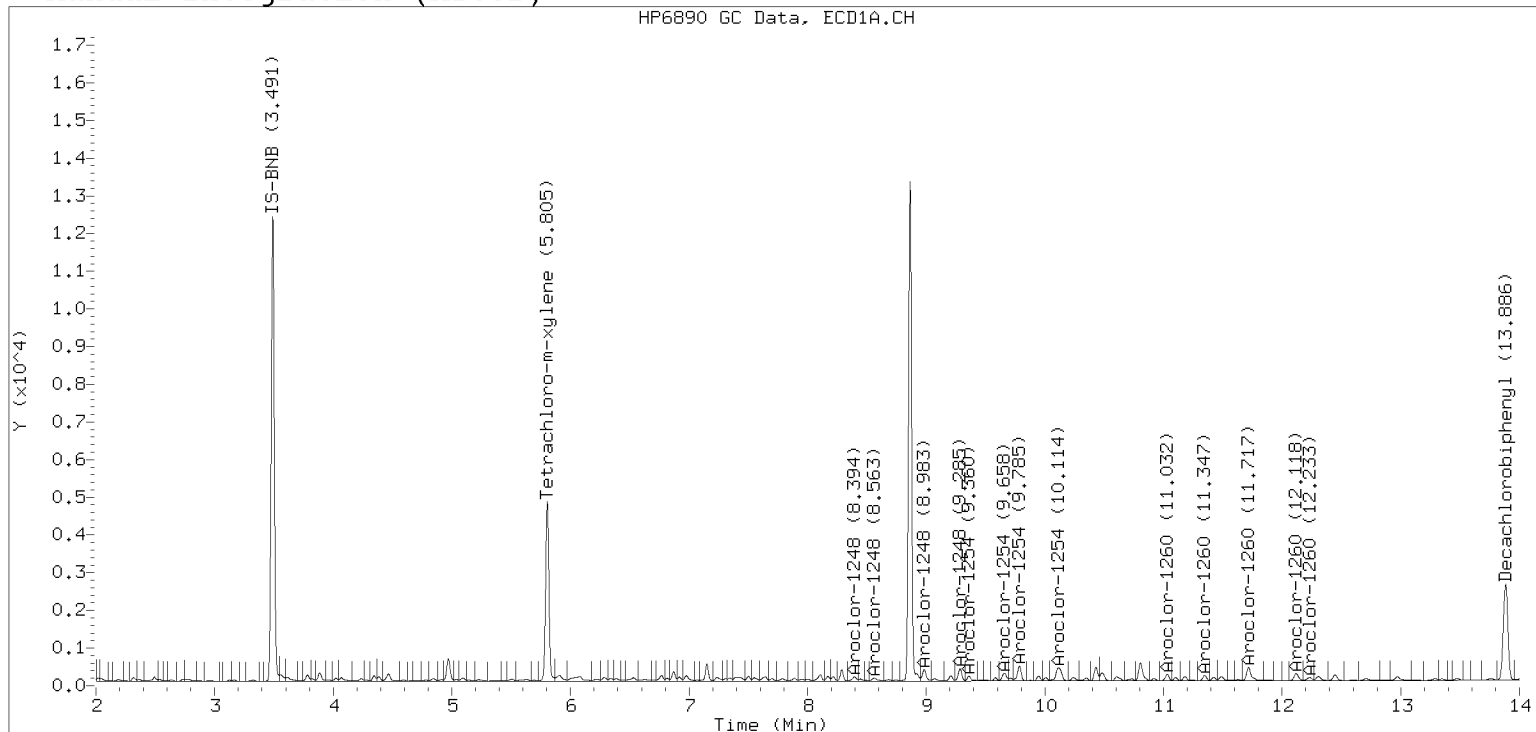
ZB-35 Manual Integration: YES

# Manual Peak Adjustment, ZB-5

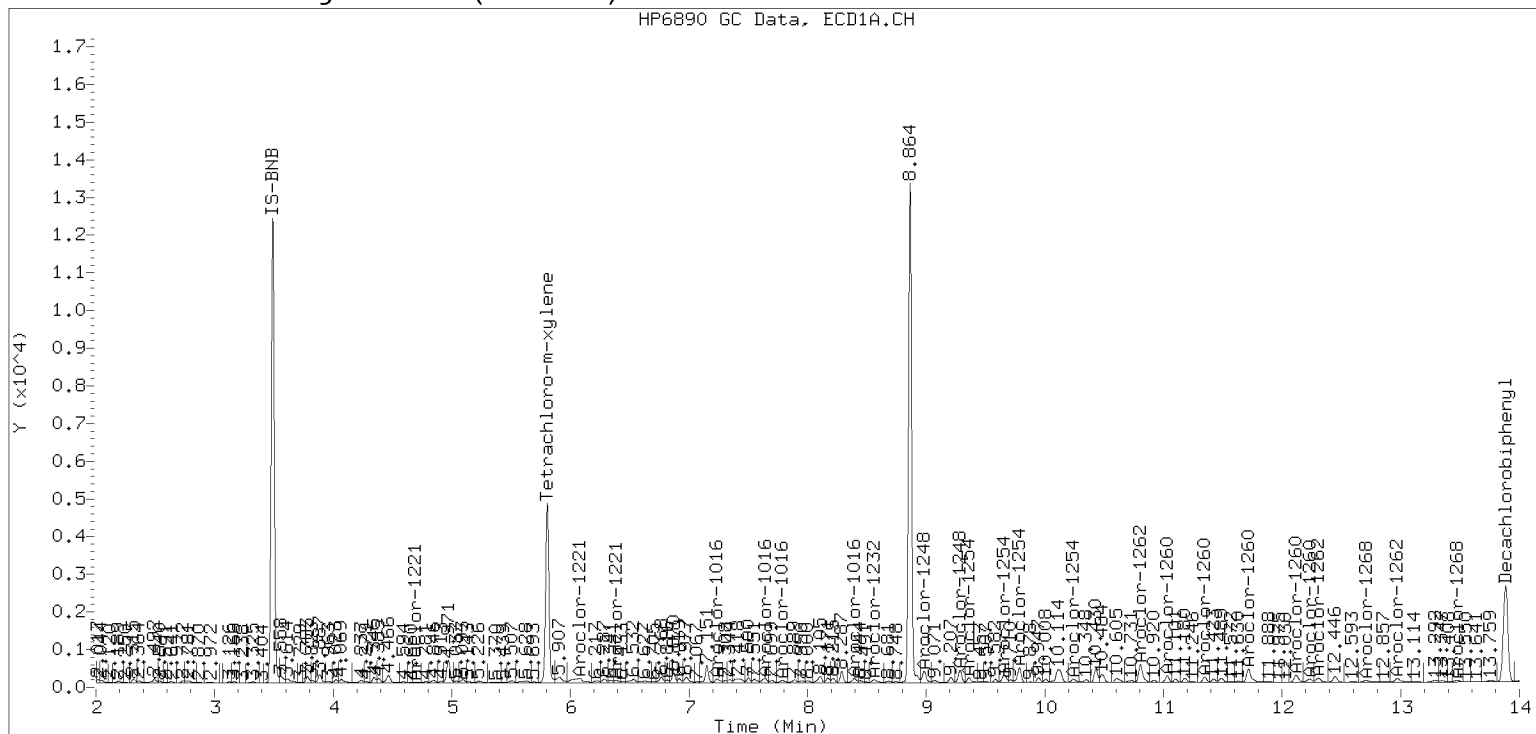
Datafile: ecd7.i/230204.b/02042325ECD7.D

Injection Date: 05-FEB-2023 00:21

## Manual Integration (After)



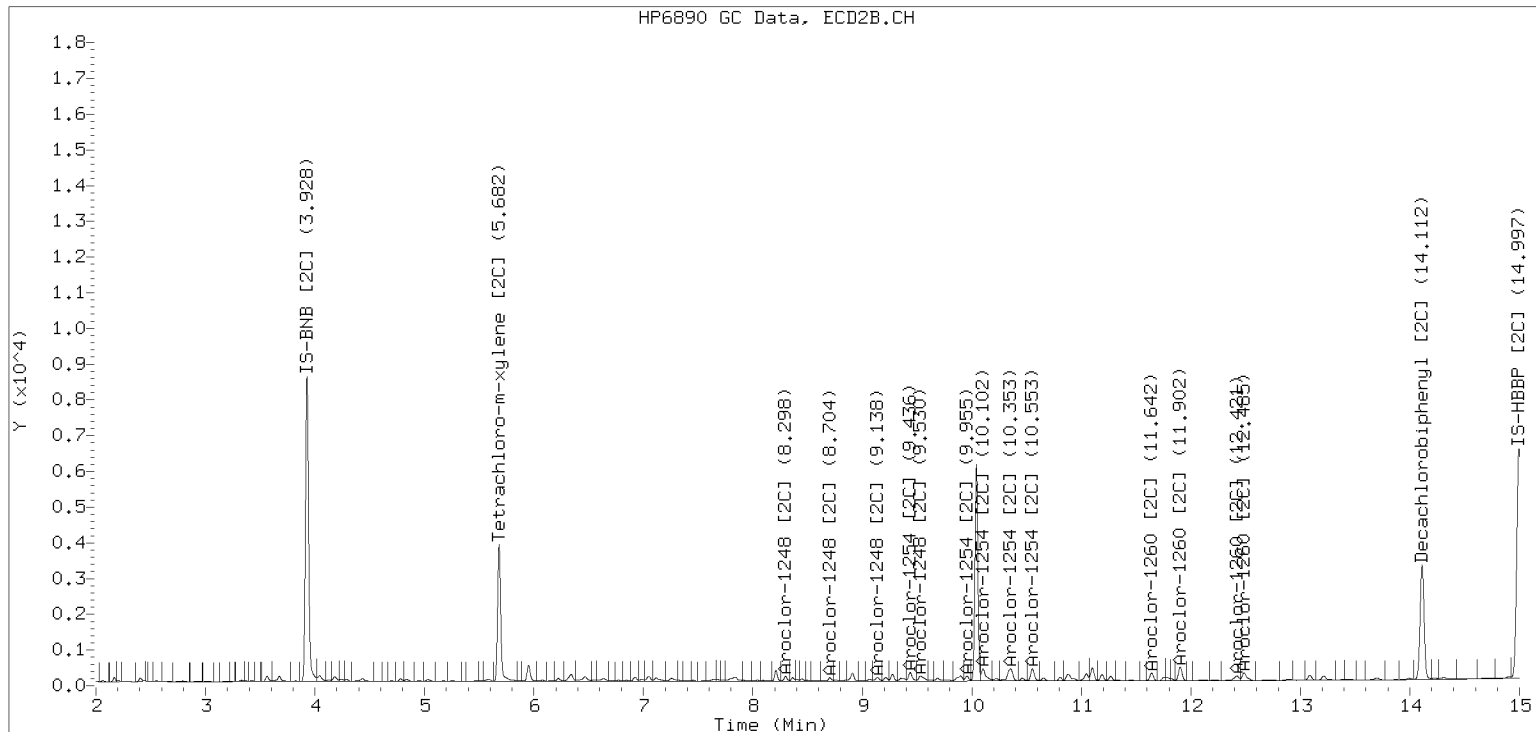
## Processed Integration (Before)



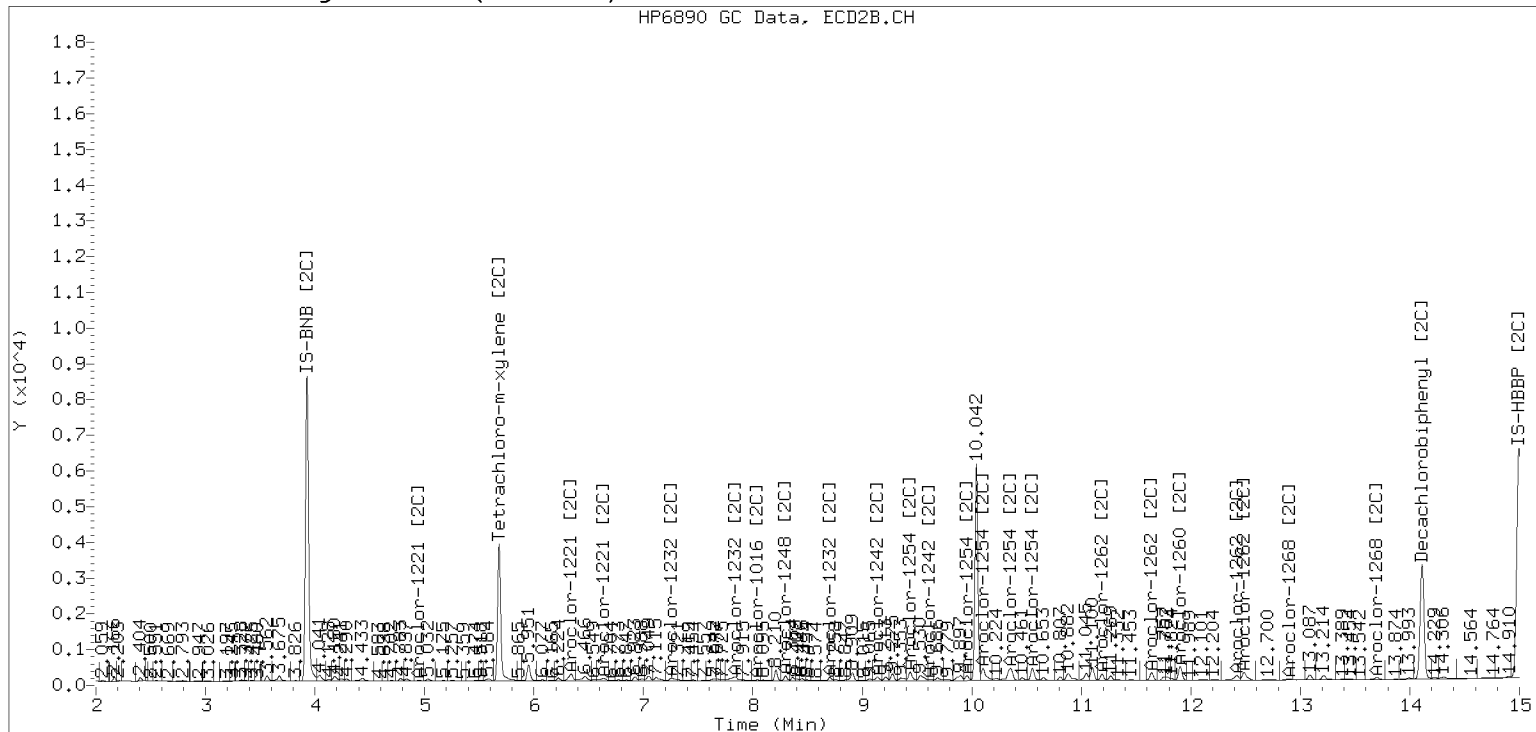
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230204.b/230204.b/02042325ECD7.D Injection Date: 05-FEB-2023

Manual Integration (After)



Processed Integration (Before)





**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC SDG: 23A0179  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Solid Laboratory ID: 23A0179-08 A File ID: 02042326ECD7.D  
 Sampled: 01/10/23 10:56 Prepared: 01/26/23 11:26 Analyzed: 02/05/23 00:42  
 % Solids: 61.36 Preparation: EPA 3546 (Microwave) Initial/Final: 20.38 g Wet / 2.5 mL  
 Batch: BLA0558 Sequence: SLB0084 Calibration: GA00061  
 Instrument: ECD7 Column 1: ZB5 Column 2: ZB35

| CAS NO.    | COMPOUND     | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 11104-28-2 | Aroclor 1221 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 11141-16-5 | Aroclor 1232 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 53469-21-9 | Aroclor 1242 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 12672-29-6 | Aroclor 1248 | 1     | 1        | 23.9              | 1.6 | 4.0 |   |
| 11097-69-1 | Aroclor 1254 | 2     | 1        | 35.8              | 1.6 | 4.0 |   |
| 11096-82-5 | Aroclor 1260 | 2     | 1        | 21.6              | 0.6 | 4.0 |   |

| SURROGATES                   | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i>    | 1     | 7.9967            | 5.91             | 73.9  | 40 - 126  |   |
| <i>Tetrachlorometaxylene</i> | 1     | 7.9967            | 5.67             | 70.9  | 44 - 120  |   |
| <i>Decachlorobiphenyl</i>    | 2     | 7.9967            | 5.57             | 69.7  | 40 - 126  |   |
| <i>Tetrachlorometaxylene</i> | 2     | 7.9967            | 6.28             | 78.6  | 44 - 120  |   |

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042326ECD7.D  
Data file 2: /230204.b/230204.b/02042326ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 23A0179-08  
Client ID:  
Injection Date: 05-FEB-2023 00:42  
Report Date: 02/06/2023 16:44  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD  | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|------|----------------------|
| 5.804  | -0.002        | 178364   | 5.680  | -0.004         | 148348   | 28.4       | 31.4        | 10.3 | Tetrachloro-m-xylene |
| 13.883 | -0.005        | 137535   | 14.112 | -0.004         | 160708   | 29.6       | 27.9        | 5.9  | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 445057      | -11.6 |
| Hexabromobiphenyl  | 647433         | 434795      | -32.8 |
| Column 2           |                |             |       |
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 336911         | 349055      | 3.6   |
| Hexabromobiphenyl  | 382032         | 363274      | -4.9  |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |       | ZB35 Col                 |       |        |        |       |          |  |
|--------------------------|-------|--------|--------|-------|--------------------------|-------|--------|--------|-------|----------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area  | Amount                   | Peak# | RT     | Shift  | Area  | Amount   |  |
| Aroclor-1016             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1016             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1016             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| Aroclor-1016             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |
| Aroclor-1221             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1221             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1221             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |
| Aroclor-1232             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1232             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1232             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| Aroclor-1232             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |
| Aroclor-1242             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1242             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1242             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| Aroclor-1242             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |
| Aroclor-1248             | 1     | 8.394  | -0.006 | 22474 | 100.9                    | 1     | 8.297  | -0.005 | 22065 | 139.8    |  |
| Aroclor-1248             | 2     | 8.563  | -0.010 | 19362 | 68.2                     | 2     | 8.703  | -0.006 | 19756 | 116.3    |  |
| Aroclor-1248             | 3     | 8.981  | -0.010 | 50491 | 92.9                     | 3     | 9.136  | -0.015 | 26373 | 127.1    |  |
| Aroclor-1248             | 4     | 9.284  | -0.007 | 58034 | 215.8                    | 4     | 9.531  | -0.044 | 21139 | 82.4     |  |
| Total CollAve (4 peaks): |       |        |        | 119.5 | Total Col2Ave (4 peaks): |       |        |        | 116.4 | RPD = 3  |  |
| Corrected Ave (3 peaks): |       |        |        | 87.4  | Corrected Ave (3 peaks): |       |        |        | 108.6 | RPD = 22 |  |
| Aroclor-1254             | 1     | 9.284  | -0.009 | 58034 | 127.9                    | 1     | 9.435  | -0.007 | 43768 | 172.8    |  |
| Aroclor-1254             | 2     | 9.359  | -0.010 | 22809 | 117.8                    | 2     | 9.954  | -0.008 | 25121 | 122.7    |  |
| Aroclor-1254             | 3     | 9.656  | -0.005 | 47752 | 164.3                    | 3     | 10.102 | -0.011 | 72521 | 162.4    |  |
| Aroclor-1254             | 4     | 9.785  | -0.013 | 79993 | 140.5                    | 4     | 10.346 | -0.017 | 94161 | 210.9    |  |
| Aroclor-1254             | 5     | 10.123 | -0.034 | 95497 | 257.9                    | 5     | 10.552 | -0.009 | 56053 | 225.4    |  |
| Total CollAve (5 peaks): |       |        |        | 161.7 | Total Col2Ave (5 peaks): |       |        |        | 178.9 | RPD = 10 |  |
| Corrected Ave (4 peaks): |       |        |        | 137.6 | Corrected Ave (4 peaks): |       |        |        | 167.2 | RPD = 19 |  |
| Aroclor-1260             | 1     | 11.031 | -0.007 | 25296 | 103.7                    | 1     | 11.641 | -0.006 | 30190 | 115.2    |  |
| Aroclor-1260             | 2     | 11.346 | -0.009 | 22344 | 89.1                     | 2     | 11.902 | -0.009 | 53470 | 80.6     |  |
| Aroclor-1260             | 3     | 11.717 | -0.010 | 62827 | 95.2                     | 3     | 12.421 | -0.009 | 23644 | 143.1    |  |
| Aroclor-1260             | 4     | 12.118 | -0.013 | 32567 | 95.5                     | 4     | 12.486 | -0.009 | 40048 | 93.3     |  |
| Aroclor-1260             | 5     | 12.233 | -0.006 | 17356 | 116.7                    | NS    | ---    |        |       | ---      |  |
| Total CollAve (5 peaks): |       |        |        | 100.0 | Total Col2Ave (4 peaks): |       |        |        | 108.1 | RPD = 8  |  |
| Corrected Ave (4 peaks): |       |        |        | 95.9  | Corrected Ave (3 peaks): |       |        |        | 96.4  | RPD = 1  |  |
| Aroclor-1262             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1262             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1262             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| Aroclor-1262             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |
| Aroclor-1268             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0      |  |
| Aroclor-1268             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0      |  |
| Aroclor-1268             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0      |  |
| Aroclor-1268             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |          |  |

Total PCB Area Col1 (5.906 - 13.788) = 1563297 Col1 Total PCB = 0.3 ppm\*  
Total PCB Area Col2 (5.784 - 14.016) = 1339007 Col2 Total PCB = 0.4 ppm\*

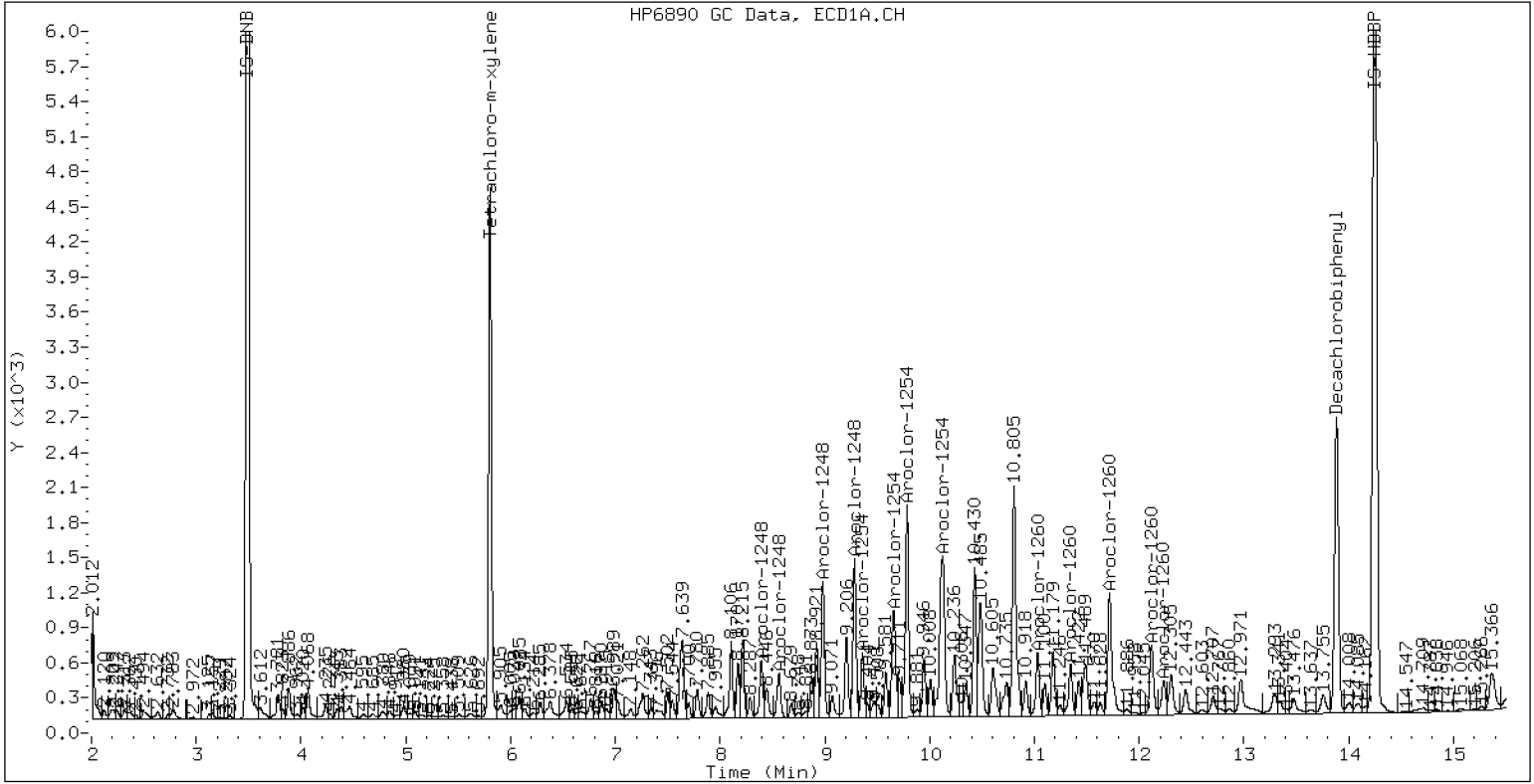
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 23A0179-08

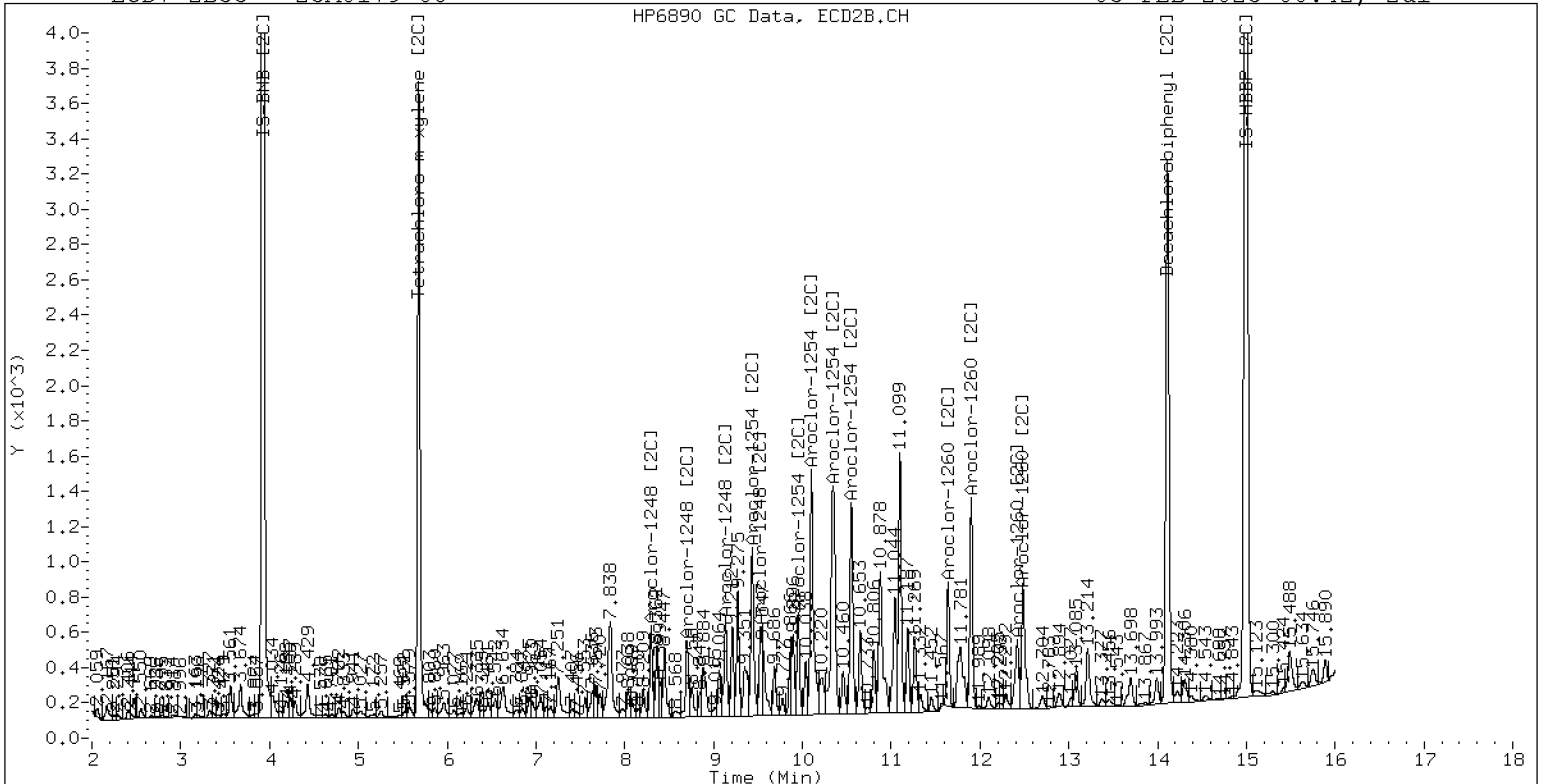
05-FEB-2023 00:42, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 23A0179-08

05-FEB-2023 00:42, 2ul



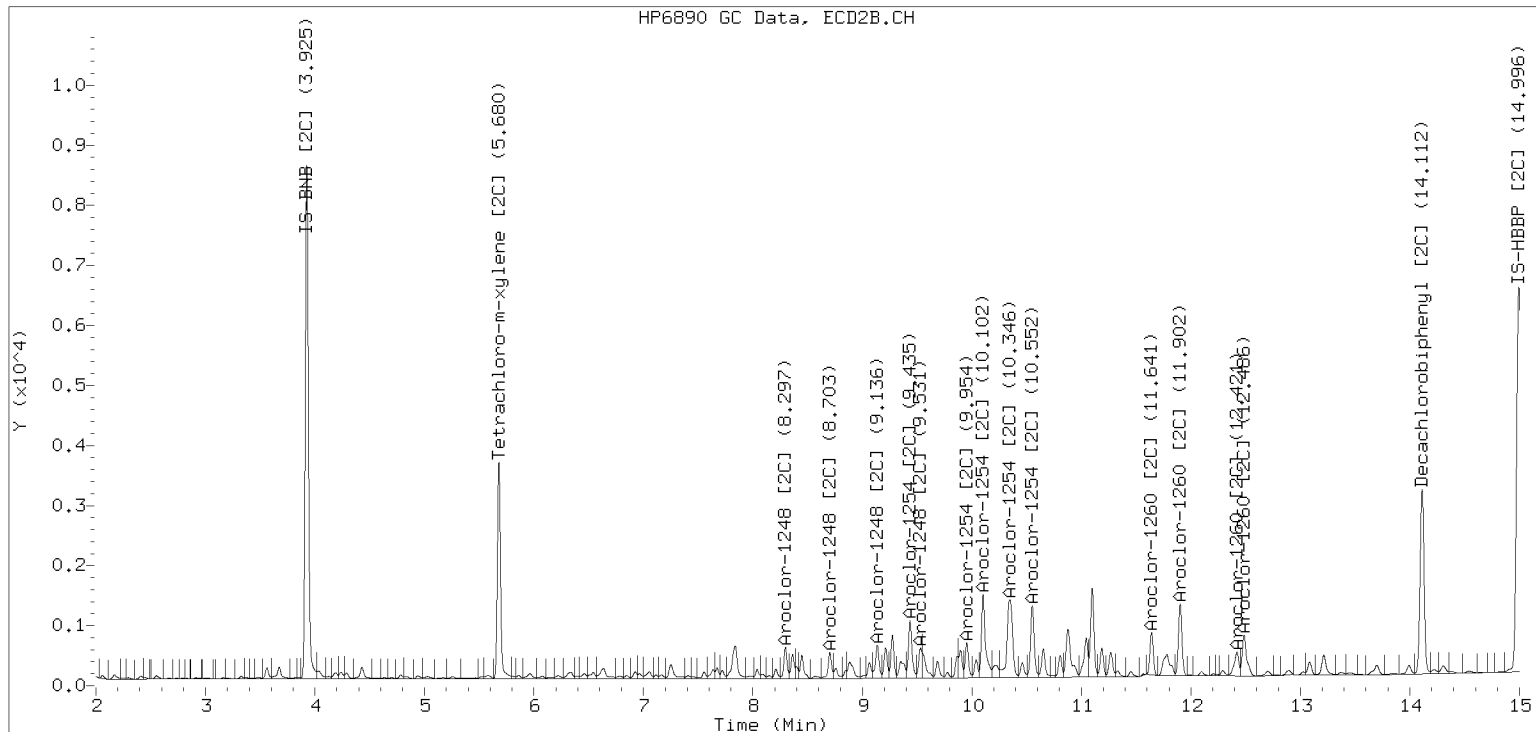
ZB-35 Manual Integration: YES



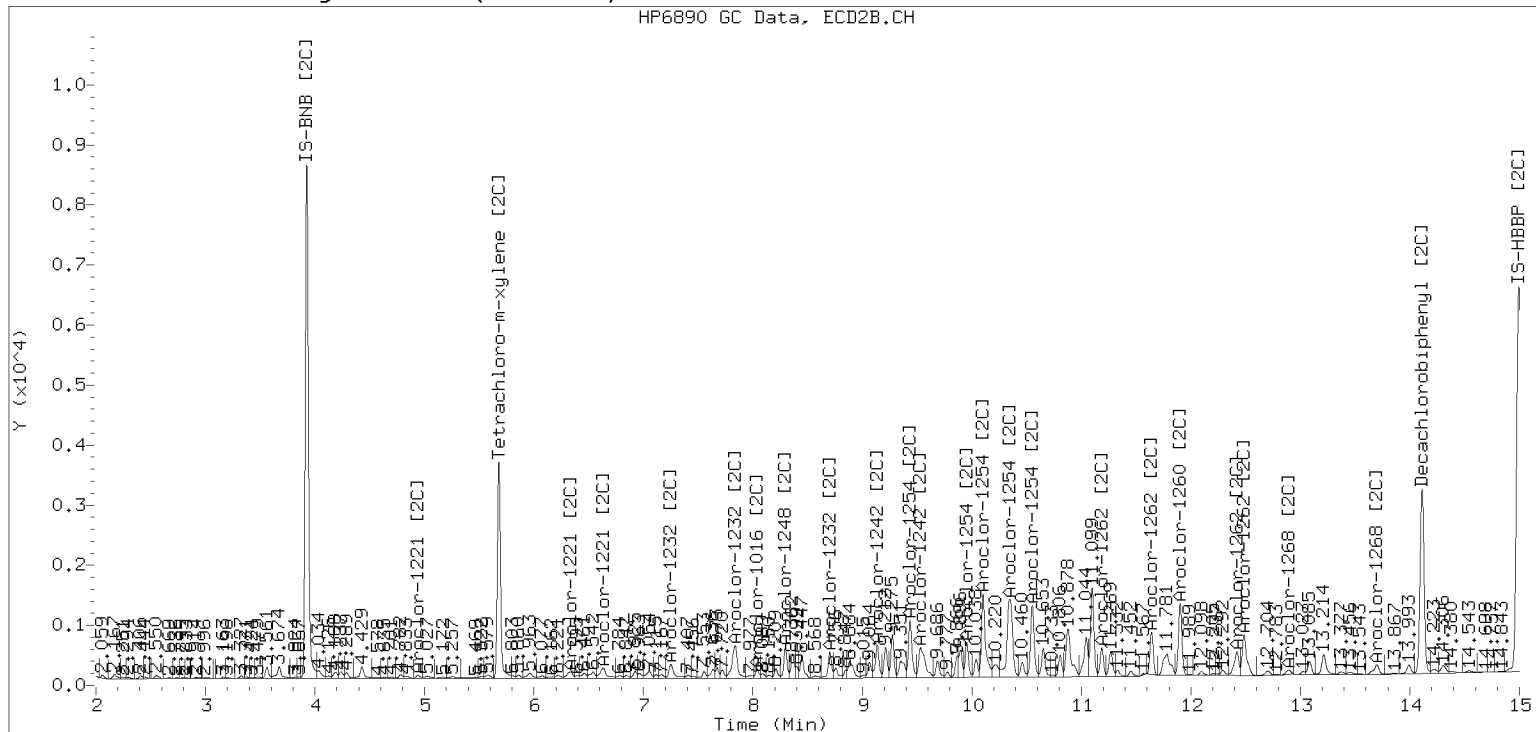
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230204.b/230204.b/02042326ECD7.D Injection Date: 05-FEB-2023

Manual Integration (After)



Processed Integration (Before)





**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: 23A0179-09 A

File ID: 02062310ECD7.D

Sampled: 01/10/23 11:08

Prepared: 01/26/23 11:26

Analyzed: 02/06/23 12:42

% Solids: 53.02

Preparation: EPA 3546 (Microwave)

Initial/Final: 23.6 g Wet / 2.5 mL

Batch: BLA0558

Sequence: SLB0086

Calibration: GA00061

Instrument: ECD7

Column 1: ZB5

Column 2: ZB35

| CAS NO.    | COMPOUND     | Col # | DILUTION | CONC. (ug/kg dry) | MDL  | MRL   | Q |
|------------|--------------|-------|----------|-------------------|------|-------|---|
| 12674-11-2 | Aroclor 1016 | 1     | 5000     | 20000             | 7790 | 20000 | U |
| 11104-28-2 | Aroclor 1221 | 1     | 5000     | 20000             | 7790 | 20000 | U |
| 11141-16-5 | Aroclor 1232 | 1     | 5000     | 20000             | 7790 | 20000 | U |
| 53469-21-9 | Aroclor 1242 | 1     | 5000     | 20000             | 7790 | 20000 | U |
| 12672-29-6 | Aroclor 1248 | 1     | 5000     | 20000             | 7790 | 20000 | U |
| 11097-69-1 | Aroclor 1254 | 2     | 5000     | 47800             | 7790 | 20000 | D |
| 11096-82-5 | Aroclor 1260 | 2     | 5000     | 123000            | 2940 | 20000 | D |

| SURROGATES                   | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i>    | 1     | 7.9919            |                  |       | 40 - 126  | * |
| <i>Tetrachlorometaxylene</i> | 1     | 7.9919            |                  |       | 44 - 120  | * |
| <i>Decachlorobiphenyl</i>    | 2     | 7.9919            |                  |       | 40 - 126  | * |
| <i>Tetrachlorometaxylene</i> | 2     | 7.9919            |                  |       | 44 - 120  | * |

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062310ECD7.D  
Data file 2: /230206.b/230206.b/02062310ECD7.D  
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 23A0179-09R  
Client ID:  
Injection Date: 06-FEB-2023 12:42  
Report Date: 02/07/2023 10:35  
Matrix: NONE  
Dilution Factor: 5000.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD  | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|------|----------------------|
| 13.890 | -0.002        | 13551    | 14.166 | 0.049          | 12695    | 1.9        | 1.6         | 20.9 | Decachlorobiphenyl   |
|        |               |          |        |                |          | 0.0        | 0.0         |      | Tetrachloro-m-xylene |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |       |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 374849      | -25.5 |
| Hexabromobiphenyl  | 647433         | 659326      | 1.8   |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 344023      | 2.1  |
| Hexabromobiphenyl  | 382032         | 513415      | 34.4 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |       | ZB35 Col                 |       |        |        |       |           |  |
|--------------------------|-------|--------|--------|-------|--------------------------|-------|--------|--------|-------|-----------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area  | Amount                   | Peak# | RT     | Shift  | Area  | Amount    |  |
| Aroclor-1016             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0       |  |
| Aroclor-1016             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0       |  |
| Aroclor-1016             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0       |  |
| Aroclor-1016             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0       |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |           |  |
| Aroclor-1221             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0       |  |
| Aroclor-1221             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0       |  |
| Aroclor-1221             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0       |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |           |  |
| Aroclor-1232             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0       |  |
| Aroclor-1232             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0       |  |
| Aroclor-1232             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0       |  |
| Aroclor-1232             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0       |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |           |  |
| Aroclor-1242             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0       |  |
| Aroclor-1242             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0       |  |
| Aroclor-1242             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0       |  |
| Aroclor-1242             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0       |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |           |  |
| Aroclor-1248             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0       |  |
| Aroclor-1248             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0       |  |
| Aroclor-1248             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0       |  |
| Aroclor-1248             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0       |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |           |  |
| Aroclor-1254             | 1     | 9.299  | -0.000 | 7931  | 20.8                     | 1     | 9.448  | 0.004  | 6765  | 27.1      |  |
| Aroclor-1254             | 2     | 9.376  | -0.002 | 4906  | 30.1                     | 2     | 9.966  | 0.003  | 420   | 2.1       |  |
| Aroclor-1254             | 3     | 9.674  | 0.004  | 1306  | 5.3                      | 3     | 10.143 | 0.028  | 13038 | 29.6      |  |
| Aroclor-1254             | 4     | 9.801  | -0.007 | 5982  | 12.5                     | 4     | 10.367 | 0.003  | 21738 | 49.4      |  |
| Aroclor-1254             | 5     | 10.117 | -0.060 | 25872 | <del>82.9</del>          | 5     | 10.564 | 0.002  | 32169 | 131.2     |  |
| Total CollAve (5 peaks): |       |        |        | 30.3  | Total Col2Ave (5 peaks): |       |        |        | 47.9  | RPD = 45* |  |
| Corrected Ave (4 peaks): |       |        |        | 17.2  | Corrected Ave (4 peaks): |       |        |        | 27.1  | RPD = 45* |  |
| Aroclor-1260             | 1     | 11.041 | -0.002 | 35330 | 95.5                     | 1     | 11.649 | 0.001  | 29418 | 79.4      |  |
| Aroclor-1260             | 2     | 11.358 | -0.003 | 25277 | 66.5                     | 2     | 11.915 | 0.003  | 80247 | 85.6      |  |
| Aroclor-1260             | 3     | 11.731 | -0.003 | 77939 | 77.9                     | 3     | 12.431 | -0.000 | 43817 | 187.6     |  |
| Aroclor-1260             | 4     | 12.134 | -0.005 | 31612 | 61.1                     | 4     | 12.498 | 0.001  | 85437 | 140.9     |  |
| Aroclor-1260             | 5     | 12.241 | -0.003 | 35963 | 159.5                    | NS    | ---    |        |       | ---       |  |
| Total CollAve (5 peaks): |       |        |        | 92.1  | Total Col2Ave (4 peaks): |       |        |        | 123.4 | RPD = 29  |  |
| Corrected Ave (4 peaks): |       |        |        | 75.2  | Corrected Ave (3 peaks): |       |        |        | 102.0 | RPD = 30  |  |
| Aroclor-1262             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0       |  |
| Aroclor-1262             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0       |  |
| Aroclor-1262             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0       |  |
| Aroclor-1262             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0       |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |           |  |
| Aroclor-1268             | 1     | ---    |        |       | 0.0                      | 1     | ---    |        |       | 0.0       |  |
| Aroclor-1268             | 2     | ---    |        |       | 0.0                      | 2     | ---    |        |       | 0.0       |  |
| Aroclor-1268             | 3     | ---    |        |       | 0.0                      | 3     | ---    |        |       | 0.0       |  |
| Aroclor-1268             | 4     | ---    |        |       | 0.0                      | 4     | ---    |        |       | 0.0       |  |
| CollAve: <3 Quant Peaks  |       |        |        |       | Col2Ave: <3 Quant Peaks  |       |        |        |       |           |  |

Total PCB Area Col1 (5.909 - 13.792) = 619657 Col1 Total PCB = 0.1 ppm\*

Total PCB Area Col2 (5.784 - 14.017) = 610581 Col2 Total PCB = 0.2 ppm\*

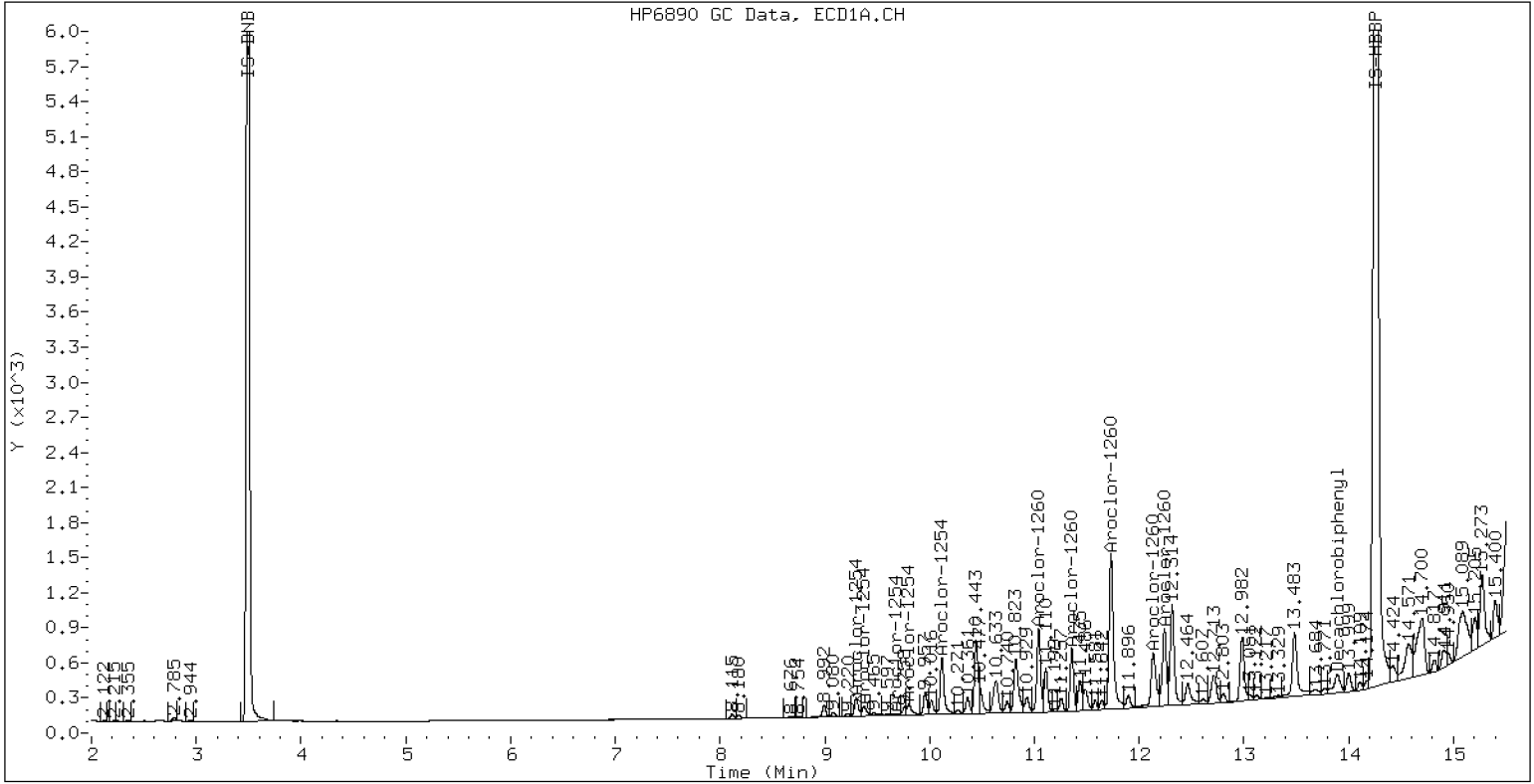
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 23A0179-09R

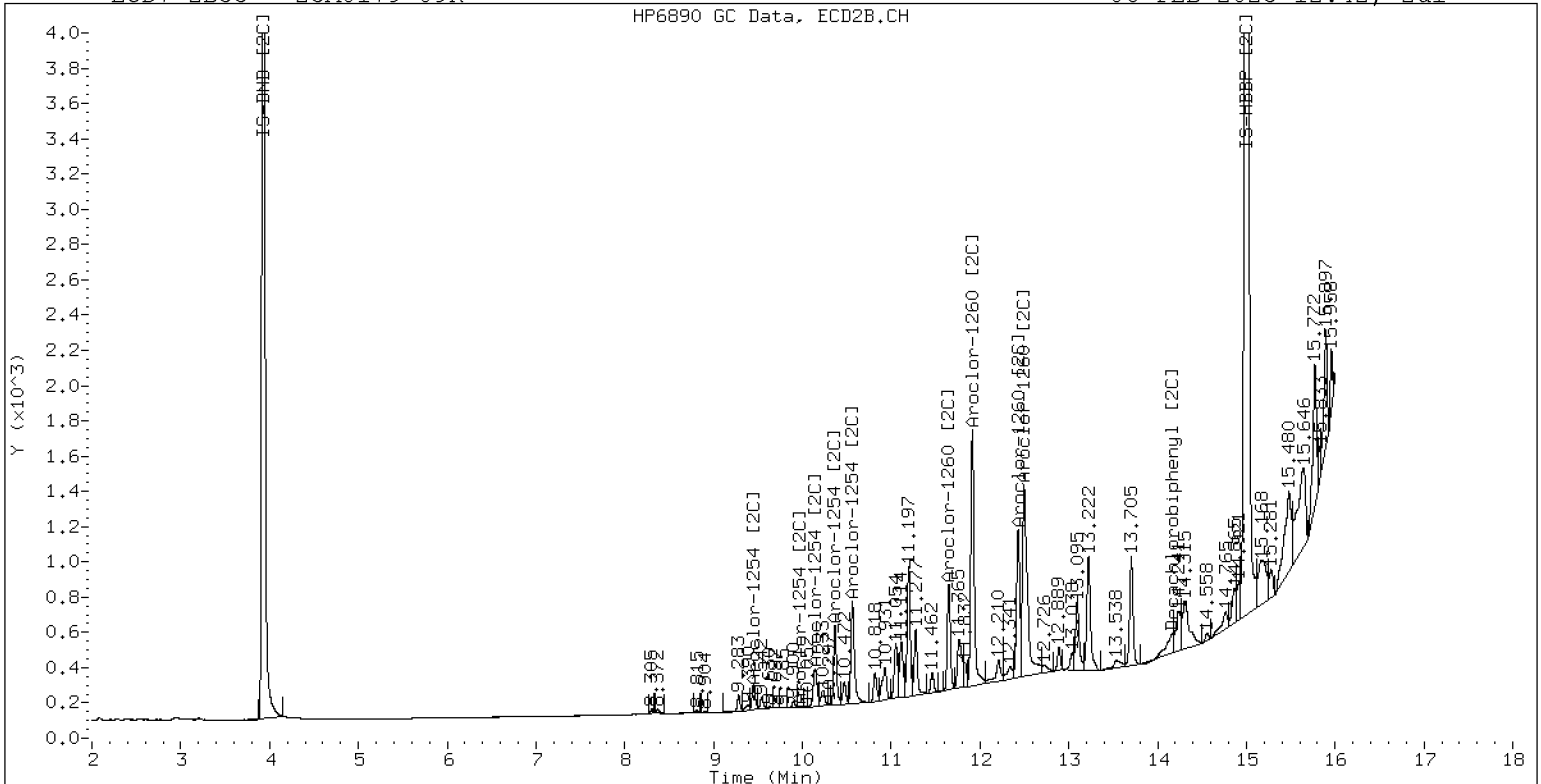
06-FEB-2023 12:42, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 23A0179-09R

06-FEB-2023 12:42, 2u1



ZB-35 Manual Integration: NO



**Dual Column**

|              |
|--------------|
| LDW23-SS1112 |
|--------------|

**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8082A**

|  |  |  |
|--|--|--|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0179</u>                      |  |
| Client: <u>Anchor QEA, LLC</u>               |  |  |
| Project: <u>AOC5 MR Phase 1</u>              |  |  |
| Matrix: <u>Solid</u>                         | Laboratory ID: <u>23A0179-10 A</u>       | File ID: <u>02062309ECD7.D</u>             |
| Sampled: <u>01/10/23 11:28</u>               | Prepared: <u>01/26/23 11:26</u>          | Analyzed: <u>02/06/23 12:21</u>            |
| % Solids: <u>49.27</u>                       | Preparation: <u>EPA 3546 (Microwave)</u> | Initial/Final: <u>25.39 g Wet / 2.5 mL</u> |
| Batch: <u>BLA0558</u>                        | Sequence: <u>SLB0086</u>                 | Calibration: <u>GA00061</u>                |
| Instrument: <u>ECD7</u>                      | Column 1: <u>ZB5</u>                     | Column 2: <u>ZB35</u>                      |

| CAS NO.    | COMPOUND     | Col # | DILUTION | CONC. (ug/kg dry) | MDL  | MRL | Q |
|------------|--------------|-------|----------|-------------------|------|-----|---|
| 12674-11-2 | Aroclor 1016 | 1     | 100      | 400               | 156  | 400 | U |
| 11104-28-2 | Aroclor 1221 | 1     | 100      | 400               | 156  | 400 | U |
| 11141-16-5 | Aroclor 1232 | 1     | 100      | 400               | 156  | 400 | U |
| 53469-21-9 | Aroclor 1242 | 1     | 100      | 400               | 156  | 400 | U |
| 12672-29-6 | Aroclor 1248 | 1     | 100      | 400               | 156  | 400 | U |
| 11097-69-1 | Aroclor 1254 | 1     | 100      | 400               | 156  | 400 | U |
| 11096-82-5 | Aroclor 1260 | 1     | 100      | 400               | 58.9 | 400 | U |

| SURROGATES                   | Col #    | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS       | Q         |
|------------------------------|----------|-------------------|------------------|-------|-----------------|-----------|
| <i>Decachlorobiphenyl</i>    | <i>1</i> | <i>7.9938</i>     |                  |       | <i>40 - 126</i> | <i>*</i>  |
| <i>Tetrachlorometaxylene</i> | <i>1</i> | <i>7.9938</i>     |                  |       | <i>44 - 120</i> | <i>DI</i> |

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062309ECD7.D  
Data file 2: /230206.b/230206.b/02062309ECD7.D  
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 23A0179-10RE  
Client ID:  
Injection Date: 06-FEB-2023 12:21  
Report Date: 02/07/2023 11:13  
Matrix: NONE  
Dilution Factor: 100.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD  | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|------|----------------------|
| 5.807  | -0.000        | 2000     | 5.686  | 0.002          | 1309     | 0.4        | 0.3         | 31.0 | Tetrachloro-m-xylene |
| 13.892 | 0.003         | 4597     | 14.116 | -0.001         | 6901     | 0.7        | 1.0         | 32.9 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |       |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 351266      | -30.2 |
| Hexabromobiphenyl  | 647433         | 589960      | -8.9  |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 328525      | -2.5 |
| Hexabromobiphenyl  | 382032         | 428207      | 12.1 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                 |       |     |       |      | ZB35 Col |                         |     |       |      |        |
|-------------------------|-------|-----|-------|------|----------|-------------------------|-----|-------|------|--------|
| Aroclor                 | Peak# | RT  | Shift | Area | Amount   | Peak#                   | RT  | Shift | Area | Amount |
| Aroclor-1016            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1016            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1016            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1016            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1221            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1221            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1221            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1232            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1232            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1232            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1232            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1242            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1242            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1242            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1242            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1248            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1248            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1248            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1248            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1254            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1254            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1254            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1254            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| Aroclor-1254            | 5     | --- |       |      | 0.0      | 5                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1260            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1260            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1260            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1260            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| Aroclor-1260            | 5     | --- |       |      | 0.0      | NS                      | --- |       |      | ----   |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1262            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1262            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1262            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1262            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1268            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1268            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1268            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1268            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |

Total PCB Area Coll (5.908 - 13.788) = 145060

Coll Total PCB = 0.0 ppm\*

Total PCB Area Col2 (5.784 - 14.017) = 224224 Col2 Total PCB = 0.1 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





Dual Column

LDW23-SS1112

ORGANIC ANALYSIS DATA SHEET  
EPA 8082A

|  |  |
|--|--|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0179</u>                        |
| Client: <u>Anchor QEA, LLC</u>               |  |
| Project: <u>AOC5 MR Phase 1</u>              |  |
| Matrix: <u>Solid</u>                         | Laboratory ID: <u>23A0179-10RE2 A</u>      |
| Sampled: <u>01/10/23 11:28</u>               | Prepared: <u>05/26/23 10:46</u>            |
| % Solids: <u>49.27</u>                       | Preparation: <u>EPA 3546 (Microwave)</u>   |
| Batch: <u>BLE0737</u>                        | Sequence: <u>SLE0480</u>                   |
| Instrument: <u>ECD7</u>                      | Column 1: <u>ZB5</u>                       |
|  | Column 2: <u>ZB35</u>                      |
|  | File ID: <u>05312315ECD7.D</u>             |
|  | Analyzed: <u>05/31/23 17:16</u>            |
|  | Initial/Final: <u>25.39 g Wet / 2.5 mL</u> |
|  | Calibration: <u>GE00022</u>                |

| CAS NO.    | COMPOUND     | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 11104-28-2 | Aroclor 1221 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 11141-16-5 | Aroclor 1232 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 53469-21-9 | Aroclor 1242 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 12672-29-6 | Aroclor 1248 | 2     | 1        | 39.4              | 1.6 | 4.0 |   |
| 11097-69-1 | Aroclor 1254 | 2     | 1        | 58.2              | 1.6 | 4.0 |   |
| 11096-82-5 | Aroclor 1260 | 2     | 1        | 54.5              | 0.6 | 4.0 |   |

| SURROGATES                   | Col #    | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC       | QC LIMITS       | Q |
|------------------------------|----------|-------------------|------------------|-------------|-----------------|---|
| <i>Decachlorobiphenyl</i>    | <i>1</i> | <i>7.9938</i>     | <i>5.57</i>      | <i>69.7</i> | <i>40 - 126</i> |   |
| <i>Tetrachlorometaxylene</i> | <i>1</i> | <i>7.9938</i>     | <i>4.16</i>      | <i>52.0</i> | <i>44 - 120</i> |   |
| <i>Decachlorobiphenyl</i>    | <i>2</i> | <i>7.9938</i>     | <i>5.47</i>      | <i>68.5</i> | <i>40 - 126</i> |   |
| <i>Tetrachlorometaxylene</i> | <i>2</i> | <i>7.9938</i>     | <i>4.97</i>      | <i>62.1</i> | <i>44 - 120</i> |   |

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230531.b/05312315ECD7.D  
Data file 2: /230531.b/230531.b/05312315ECD7.D  
Method: \\target\share\chem4\ecd7.i\230531.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 23A0179-10RE2  
Client ID:  
Injection Date: 31-MAY-2023 17:16  
Report Date: 06/01/2023 08:29  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.740   | -0.003 | 184017   | 5.624  | -0.009 | 118129   | 20.8   | 24.8 | 17.7          | Tetrachloro-m-xylene |
| 13.830  | -0.010 | 125155   | 14.061 | -0.009 | 144976   | 27.9   | 27.4 | 1.8           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 601474         | 587150      | -2.4  |
| Hexabromobiphenyl  | 876625         | 449485      | -48.7 |

| Column 2           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 349289         | 345619      | -1.1  |
| Hexabromobiphenyl  | 652984         | 372845      | -42.9 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col                 |       |        |        |        |          |  |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|----------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                   | Peak# | RT     | Shift  | Area   | Amount   |  |
| Aroclor-1016             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1016             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1016             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1016             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1221             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1221             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1221             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1232             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1232             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1232             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1232             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1242             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1242             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1242             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1242             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1248             | 1     | 8.393  | -0.007 | 27661  | 184.6                    | 1     | 8.249  | -0.013 | 34120  | 207.5    |  |
| Aroclor-1248             | 2     | 8.510  | -0.015 | 49429  | 126.9                    | 2     | 8.655  | -0.015 | 31350  | 180.5    |  |
| Aroclor-1248             | 3     | 8.928  | -0.017 | 95272  | 127.2                    | 3     | 9.089  | -0.036 | 41304  | 202.9    |  |
| Aroclor-1248             | 4     | 9.232  | -0.008 | 102974 | 269.7                    | 4     | 9.484  | -0.067 | 67572  | 276.8    |  |
| Total CollAve (4 peaks): |       |        |        | 177.1  | Total Col2Ave (4 peaks): |       |        |        | 216.9  | RPD = 20 |  |
| Corrected Ave (3 peaks): |       |        |        | 146.2  | Corrected Ave (3 peaks): |       |        |        | 197.0  | RPD = 30 |  |
| Aroclor-1254             | 1     | 9.232  | -0.012 | 102974 | 170.6                    | 1     | 9.388  | -0.016 | 64197  | 244.5    |  |
| Aroclor-1254             | 2     | 9.311  | -0.014 | 73195  | 270.0                    | 2     | 9.484  | -0.014 | 67572  | 433.2    |  |
| Aroclor-1254             | 3     | 9.604  | -0.011 | 86376  | 221.7                    | 3     | 9.906  | -0.017 | 39380  | 185.0    |  |
| Aroclor-1254             | 4     | 9.732  | -0.021 | 133940 | 175.5                    | 4     | 10.054 | -0.022 | 110237 | 237.3    |  |
| Aroclor-1254             | 5     | 10.066 | -0.055 | 170540 | 370.1                    | 5     | 10.300 | -0.027 | 164475 | 356.9    |  |
| Total CollAve (5 peaks): |       |        |        | 241.6  | Total Col2Ave (5 peaks): |       |        |        | 291.4  | RPD = 19 |  |
| Corrected Ave (4 peaks): |       |        |        | 209.5  | Corrected Ave (4 peaks): |       |        |        | 255.9  | RPD = 20 |  |
| Aroclor-1260             | 1     | 10.979 | -0.015 | 50695  | 213.3                    | 1     | 11.592 | -0.015 | 56733  | 286.5    |  |
| Aroclor-1260             | 2     | 11.293 | -0.017 | 40899  | 174.4                    | 2     | 11.854 | -0.020 | 108001 | 208.5    |  |
| Aroclor-1260             | 3     | 11.664 | -0.021 | 130589 | 222.3                    | 3     | 12.372 | -0.018 | 47343  | 368.9    |  |
| Aroclor-1260             | 4     | 12.064 | -0.027 | 62949  | 218.8                    | 4     | 12.436 | -0.021 | 78646  | 227.3    |  |
| Aroclor-1260             | 5     | 12.180 | -0.014 | 32332  | 257.7                    | NS    | ---    |        |        | ---      |  |
| Total CollAve (5 peaks): |       |        |        | 217.3  | Total Col2Ave (4 peaks): |       |        |        | 272.8  | RPD = 23 |  |
| Corrected Ave (4 peaks): |       |        |        | 207.2  | Corrected Ave (3 peaks): |       |        |        | 240.8  | RPD = 15 |  |
| Aroclor-1262             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1262             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1262             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1262             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1268             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1268             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1268             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1268             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |

Total PCB Area Col1 (5.843 - 13.740) = 4265756 Col1 Total PCB = 0.7 ppm\*

Total PCB Area Col2 (5.733 - 13.970) = 2856933 Col2 Total PCB = 0.7 ppm\*

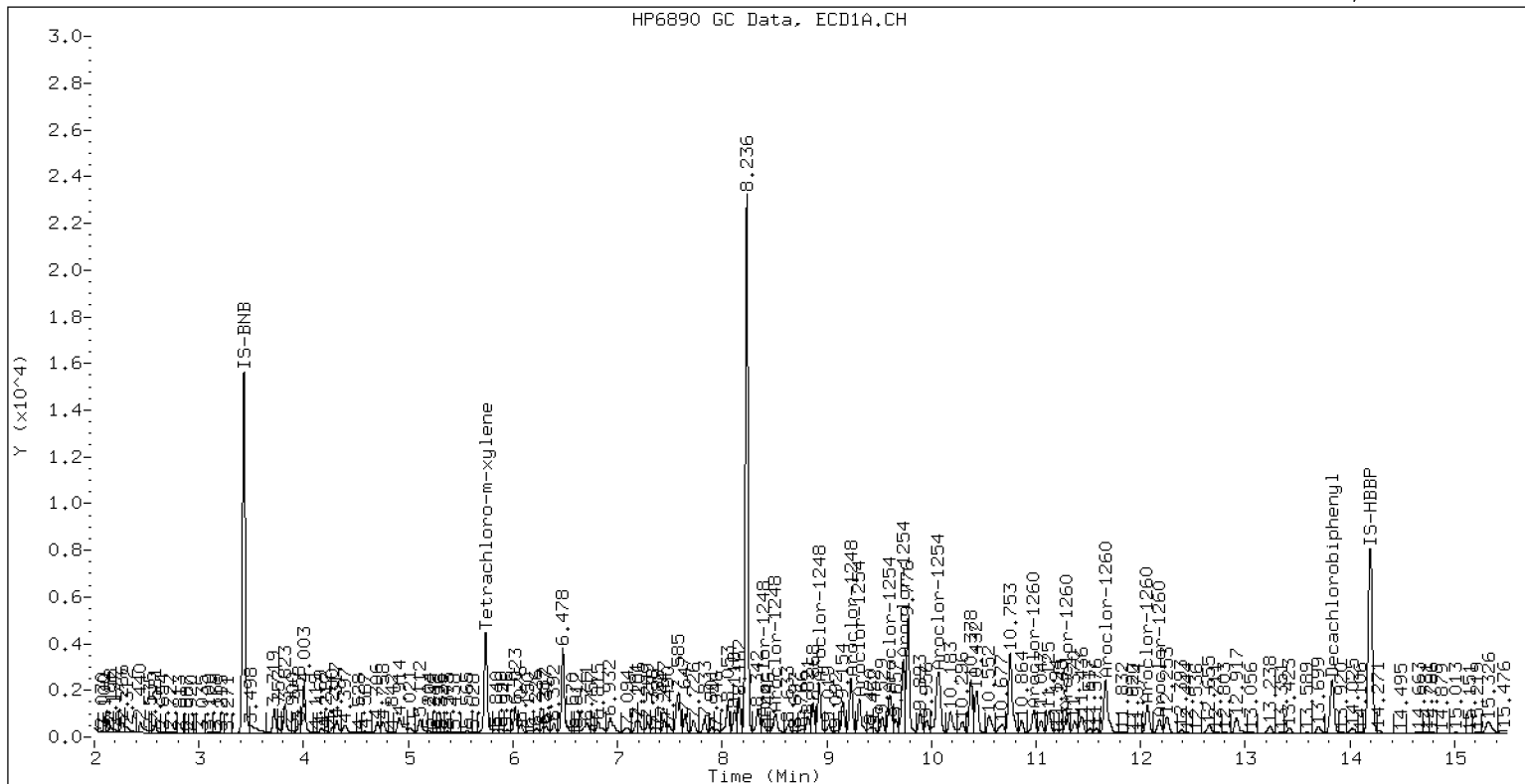
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 23A0179-10RE2

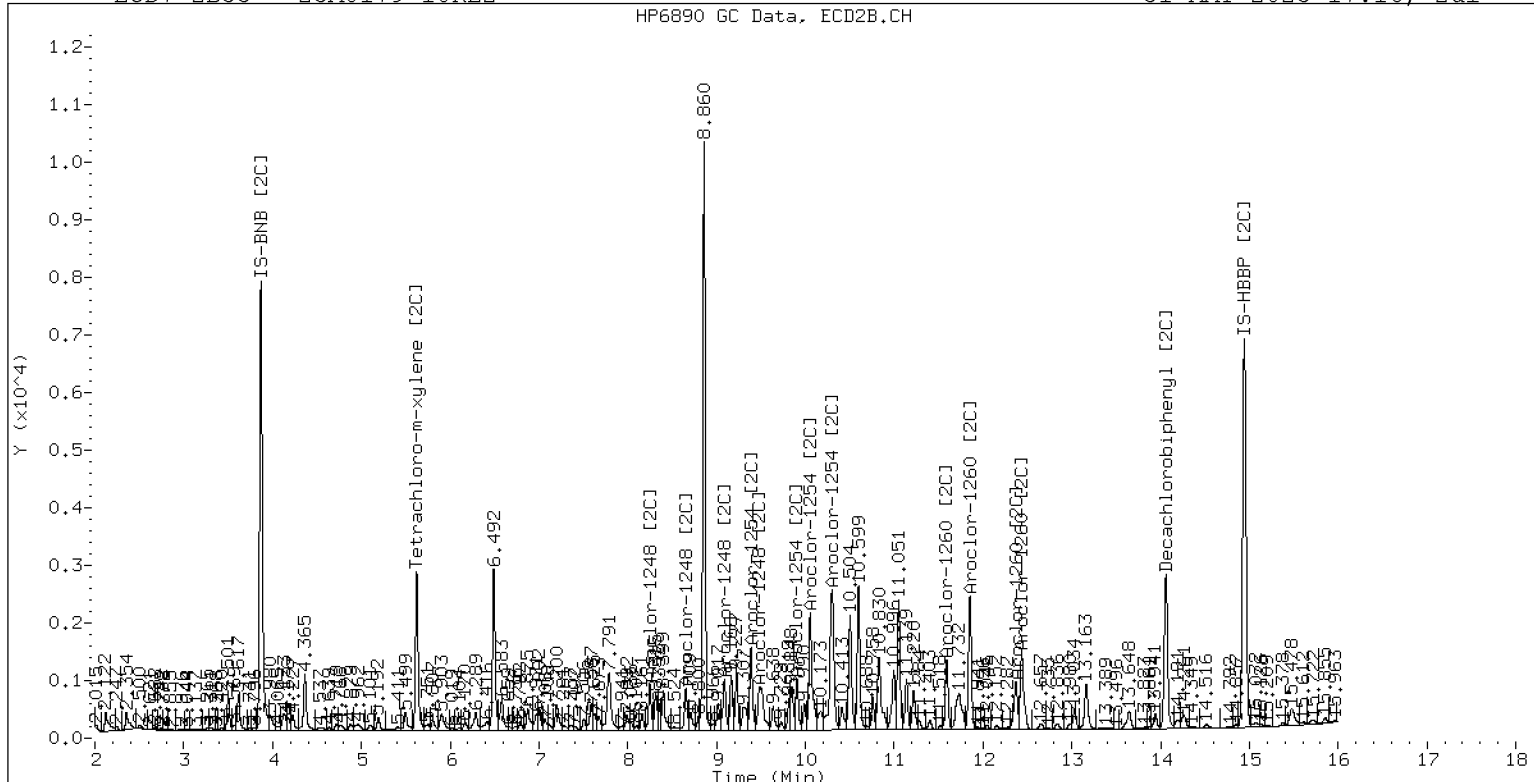
31-MAY-2023 17:16, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 23A0179-10RE2

31-MAY-2023 17:16, 2u1



ZB-35 Manual Integration: NO





ORGANIC ANALYSIS DATA SHEET  
EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 23A0179  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Solid Laboratory ID: 23A0179-11 A File ID: 02062315ECD7.D  
 Sampled: 01/10/23 11:56 Prepared: 01/26/23 11:26 Analyzed: 02/06/23 14:28  
 % Solids: 49.64 Preparation: EPA 3546 (Microwave) Initial/Final: 25.23 g Wet / 2.5 mL  
 Batch: BLA0558 Sequence: SLB0086 Calibration: GA00061  
 Instrument: ECD7 Column 1: ZB5 Column 2: ZB35

| CAS NO.    | COMPOUND     | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 11104-28-2 | Aroclor 1221 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 11141-16-5 | Aroclor 1232 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 53469-21-9 | Aroclor 1242 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 12672-29-6 | Aroclor 1248 | 2     | 1        | 32.3              | 1.6 | 4.0 |   |
| 11097-69-1 | Aroclor 1254 | 2     | 1        | 50.9              | 1.6 | 4.0 |   |
| 11096-82-5 | Aroclor 1260 | 2     | 1        | 32.3              | 0.6 | 4.0 |   |

| SURROGATES                   | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i>    | 1     | 7.9846            | 5.83             | 73.0  | 40 - 126  |   |
| <i>Tetrachlorometaxylene</i> | 1     | 7.9846            | 5.11             | 64.0  | 44 - 120  |   |
| <i>Decachlorobiphenyl</i>    | 2     | 7.9846            | 5.04             | 63.1  | 40 - 126  |   |
| <i>Tetrachlorometaxylene</i> | 2     | 7.9846            | 5.90             | 73.9  | 44 - 120  |   |

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062315ECD7.D                   ARI ID: 23A0179-11  
 Data file 2: /230206.b/230206.b/02062315ECD7.D       Client ID:  
 Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m   Injection Date: 06-FEB-2023 14:28  
 Compound Sublist: PCB.sub                               Report Date: 02/07/2023 10:35  
 Instrument, Inj. Vol.: ecd7.i, 2ul                     Matrix: NONE  
 Quant Method: Internal Std                             Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.805   | -0.004 | 124974   | 5.682  | -0.003 | 115370   | 25.6   | 29.6 | 14.4          | Tetrachloro-m-xylene |
| 13.884  | -0.008 | 110013   | 14.113 | -0.003 | 140383   | 29.2   | 25.3 | 14.5          | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 345527      | -31.4 |
| Hexabromobiphenyl  | 647433         | 352219      | -45.6 |

| Column 2           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 336911         | 288623      | -14.3 |
| Hexabromobiphenyl  | 382032         | 350225      | -8.3  |

\* Standard Areas taken from Initial Cal Level 3  
 Initial Calibration Date: 24-JAN-2023  
 <- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |                  | ZB35 Col                 |       |        |        |        |          |
|--------------------------|-------|--------|--------|------------------|--------------------------|-------|--------|--------|--------|----------|
| Aroclor                  | Peak# | RT     | Shift  | Area             | Amount                   | Peak# | RT     | Shift  | Area   | Amount   |
| Aroclor-1016             | 1     | ---    |        |                  | 0.0                      | 1     | ---    |        |        | 0.0      |
| Aroclor-1016             | 2     | ---    |        |                  | 0.0                      | 2     | ---    |        |        | 0.0      |
| Aroclor-1016             | 3     | ---    |        |                  | 0.0                      | 3     | ---    |        |        | 0.0      |
| Aroclor-1016             | 4     | ---    |        |                  | 0.0                      | 4     | ---    |        |        | 0.0      |
| CollAve: <3 Quant Peaks  |       |        |        |                  | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |
| Aroclor-1221             | 1     | ---    |        |                  | 0.0                      | 1     | ---    |        |        | 0.0      |
| Aroclor-1221             | 2     | ---    |        |                  | 0.0                      | 2     | ---    |        |        | 0.0      |
| Aroclor-1221             | 3     | ---    |        |                  | 0.0                      | 3     | ---    |        |        | 0.0      |
| CollAve: <3 Quant Peaks  |       |        |        |                  | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |
| Aroclor-1232             | 1     | ---    |        |                  | 0.0                      | 1     | ---    |        |        | 0.0      |
| Aroclor-1232             | 2     | ---    |        |                  | 0.0                      | 2     | ---    |        |        | 0.0      |
| Aroclor-1232             | 3     | ---    |        |                  | 0.0                      | 3     | ---    |        |        | 0.0      |
| Aroclor-1232             | 4     | ---    |        |                  | 0.0                      | 4     | ---    |        |        | 0.0      |
| CollAve: <3 Quant Peaks  |       |        |        |                  | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |
| Aroclor-1242             | 1     | ---    |        |                  | 0.0                      | 1     | ---    |        |        | 0.0      |
| Aroclor-1242             | 2     | ---    |        |                  | 0.0                      | 2     | ---    |        |        | 0.0      |
| Aroclor-1242             | 3     | ---    |        |                  | 0.0                      | 3     | ---    |        |        | 0.0      |
| Aroclor-1242             | 4     | ---    |        |                  | 0.0                      | 4     | ---    |        |        | 0.0      |
| CollAve: <3 Quant Peaks  |       |        |        |                  | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |
| Aroclor-1248             | 1     | 8.395  | -0.010 | 24252            | 140.3                    | 1     | 8.298  | -0.005 | 24859  | 190.5    |
| Aroclor-1248             | 2     | 8.562  | -0.018 | 21108            | 95.7                     | 2     | 8.704  | -0.006 | 22688  | 161.6    |
| Aroclor-1248             | 3     | 8.980  | -0.019 | 53560            | 127.0                    | 3     | 9.136  | -0.016 | 31134  | 181.4    |
| Aroclor-1248             | 4     | 9.284  | -0.009 | 57085            | 273.4                    | 4     | 9.531  | -0.044 | 24120  | 113.7    |
| Total CollAve (4 peaks): |       |        |        | 159.1            | Total Col2Ave (4 peaks): |       |        |        | 161.8  | RPD = 2  |
| Corrected Ave (3 peaks): |       |        |        | 121.0            | Corrected Ave (3 peaks): |       |        |        | 152.2  | RPD = 23 |
| Aroclor-1254             | 1     | 9.284  | -0.014 | 57085            | 162.1                    | 1     | 9.436  | -0.008 | 47236  | 225.6    |
| Aroclor-1254             | 2     | 9.360  | -0.017 | 22280            | 148.2                    | 2     | 9.955  | -0.009 | 26155  | 154.5    |
| Aroclor-1254             | 3     | 9.656  | -0.013 | 49076            | 217.5                    | 3     | 10.103 | -0.012 | 81627  | 221.1    |
| Aroclor-1254             | 4     | 9.784  | -0.024 | 80738            | 182.6                    | 4     | 10.346 | -0.018 | 109998 | 297.9    |
| Aroclor-1254             | 5     | 10.117 | -0.060 | 96826            | 336.8                    | 5     | 10.553 | -0.009 | 77424  | 376.5    |
| Total CollAve (5 peaks): |       |        |        | <del>209.4</del> | Total Col2Ave (5 peaks): |       |        |        | 255.1  | RPD = 20 |
| Corrected Ave (4 peaks): |       |        |        | 177.6            | Corrected Ave (4 peaks): |       |        |        | 224.8  | RPD = 23 |
| Aroclor-1260             | 1     | 11.031 | -0.012 | 30376            | 153.7                    | 1     | 11.642 | -0.007 | 39514  | 156.4    |
| Aroclor-1260             | 2     | 11.345 | -0.015 | 27443            | 135.1                    | 2     | 11.903 | -0.009 | 78397  | 122.6    |
| Aroclor-1260             | 3     | 11.717 | -0.018 | 74682            | 139.6                    | 3     | 12.422 | -0.009 | 35835  | 224.9    |
| Aroclor-1260             | 4     | 12.117 | -0.022 | 38865            | 140.7                    | 4     | 12.487 | -0.009 | 59683  | 144.3    |
| Aroclor-1260             | 5     | 12.233 | -0.011 | 23224            | 192.8                    | NS    | ---    |        |        | ----     |
| Total CollAve (5 peaks): |       |        |        | 152.4            | Total Col2Ave (4 peaks): |       |        |        | 162.1  | RPD = 6  |
| Corrected Ave (4 peaks): |       |        |        | 142.3            | Corrected Ave (3 peaks): |       |        |        | 141.1  | RPD = 1  |
| Aroclor-1262             | 1     | ---    |        |                  | 0.0                      | 1     | ---    |        |        | 0.0      |
| Aroclor-1262             | 2     | ---    |        |                  | 0.0                      | 2     | ---    |        |        | 0.0      |
| Aroclor-1262             | 3     | ---    |        |                  | 0.0                      | 3     | ---    |        |        | 0.0      |
| Aroclor-1262             | 4     | ---    |        |                  | 0.0                      | 4     | ---    |        |        | 0.0      |
| CollAve: <3 Quant Peaks  |       |        |        |                  | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |
| Aroclor-1268             | 1     | ---    |        |                  | 0.0                      | 1     | ---    |        |        | 0.0      |
| Aroclor-1268             | 2     | ---    |        |                  | 0.0                      | 2     | ---    |        |        | 0.0      |
| Aroclor-1268             | 3     | ---    |        |                  | 0.0                      | 3     | ---    |        |        | 0.0      |
| Aroclor-1268             | 4     | ---    |        |                  | 0.0                      | 4     | ---    |        |        | 0.0      |
| CollAve: <3 Quant Peaks  |       |        |        |                  | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |

Total PCB Area Col1 (5.909 - 13.792) = 1662147 Col1 Total PCB = 0.4 ppm\*  
Total PCB Area Col2 (5.784 - 14.017) = 1642392 Col2 Total PCB = 0.5 ppm\*

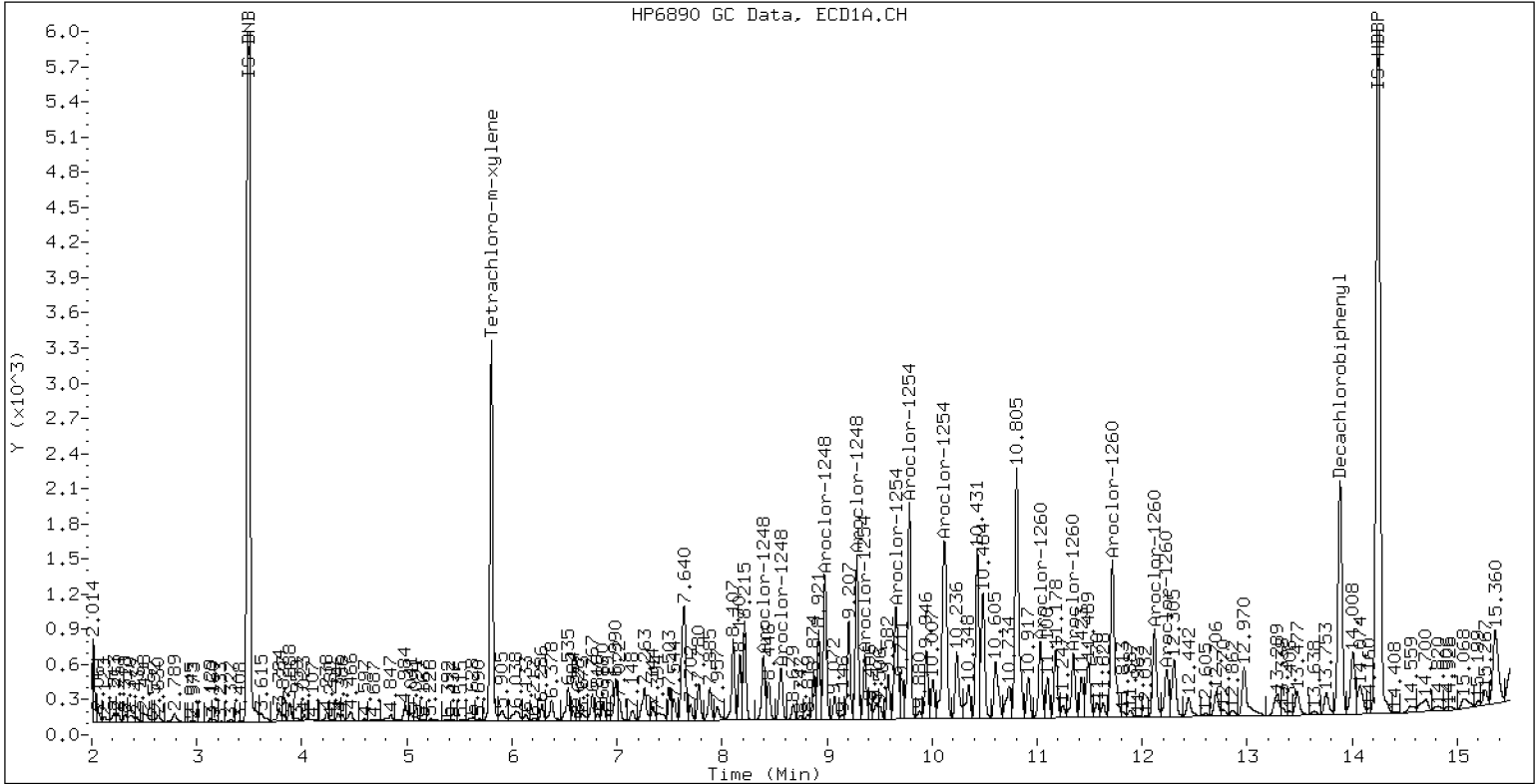
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 23A0179-11

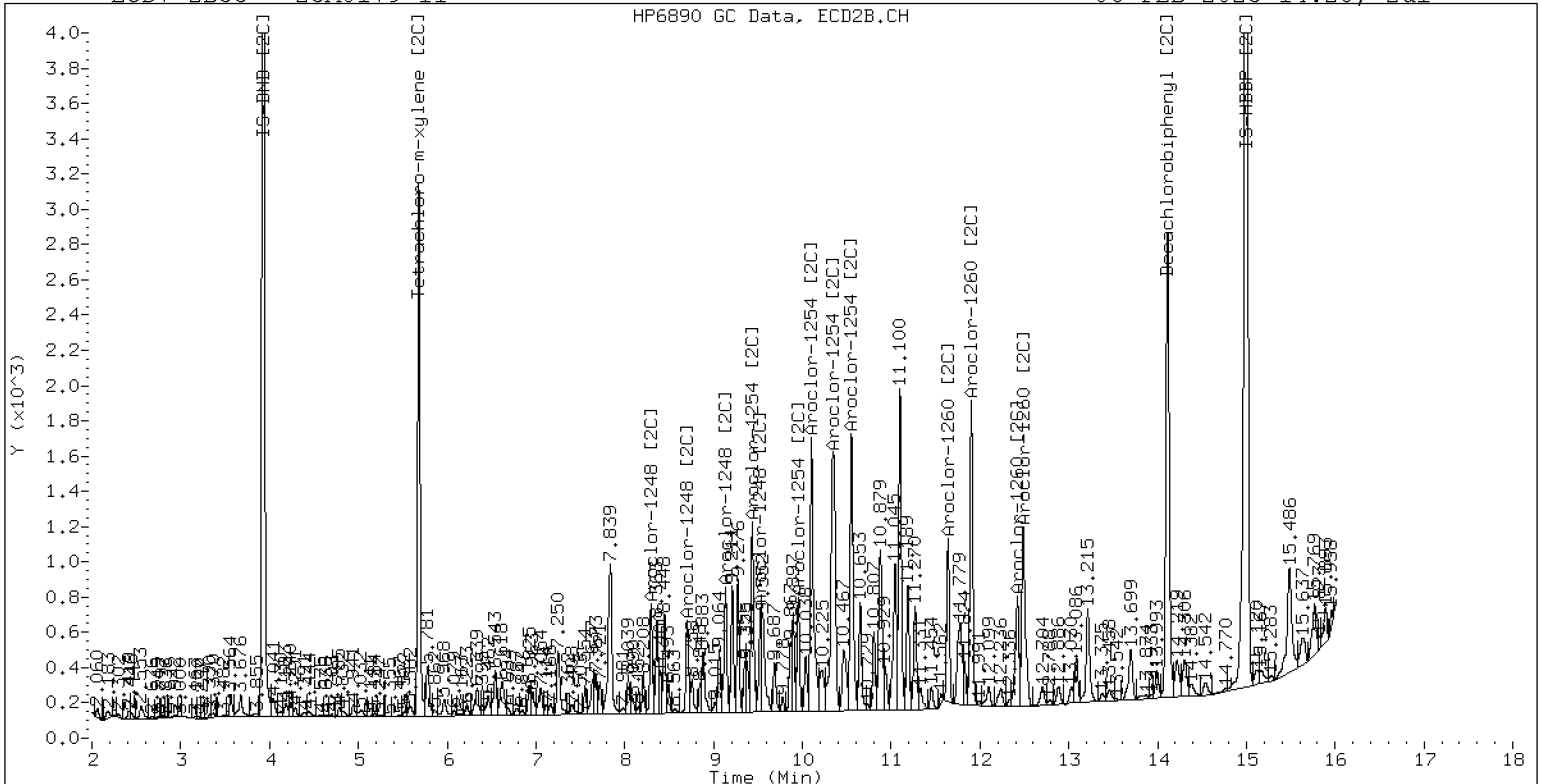
06-FEB-2023 14:28, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23A0179-11

06-FEB-2023 14:28, 2ul



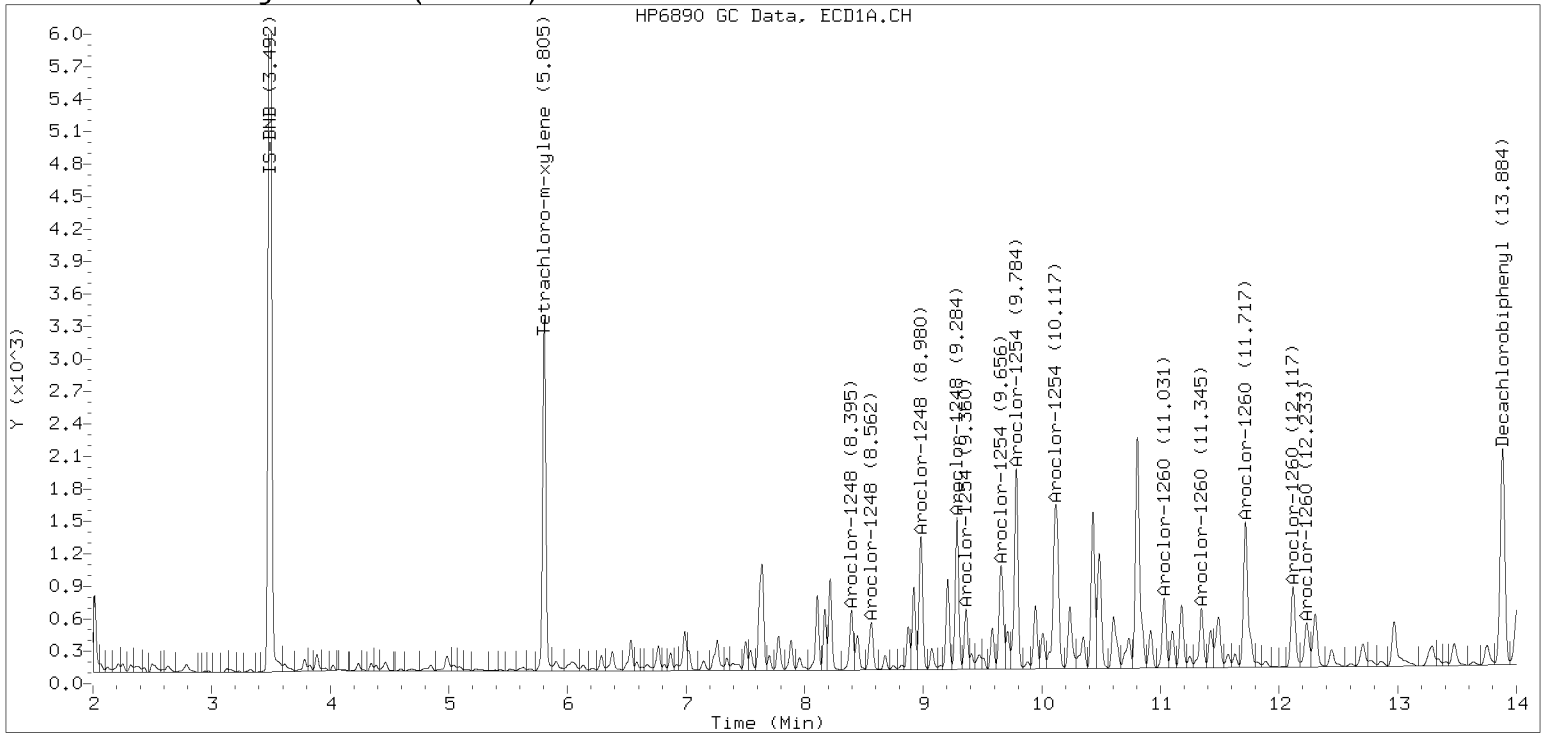
ZB-35 Manual Integration: YES

Manual Peak Adjustment, ZB-5

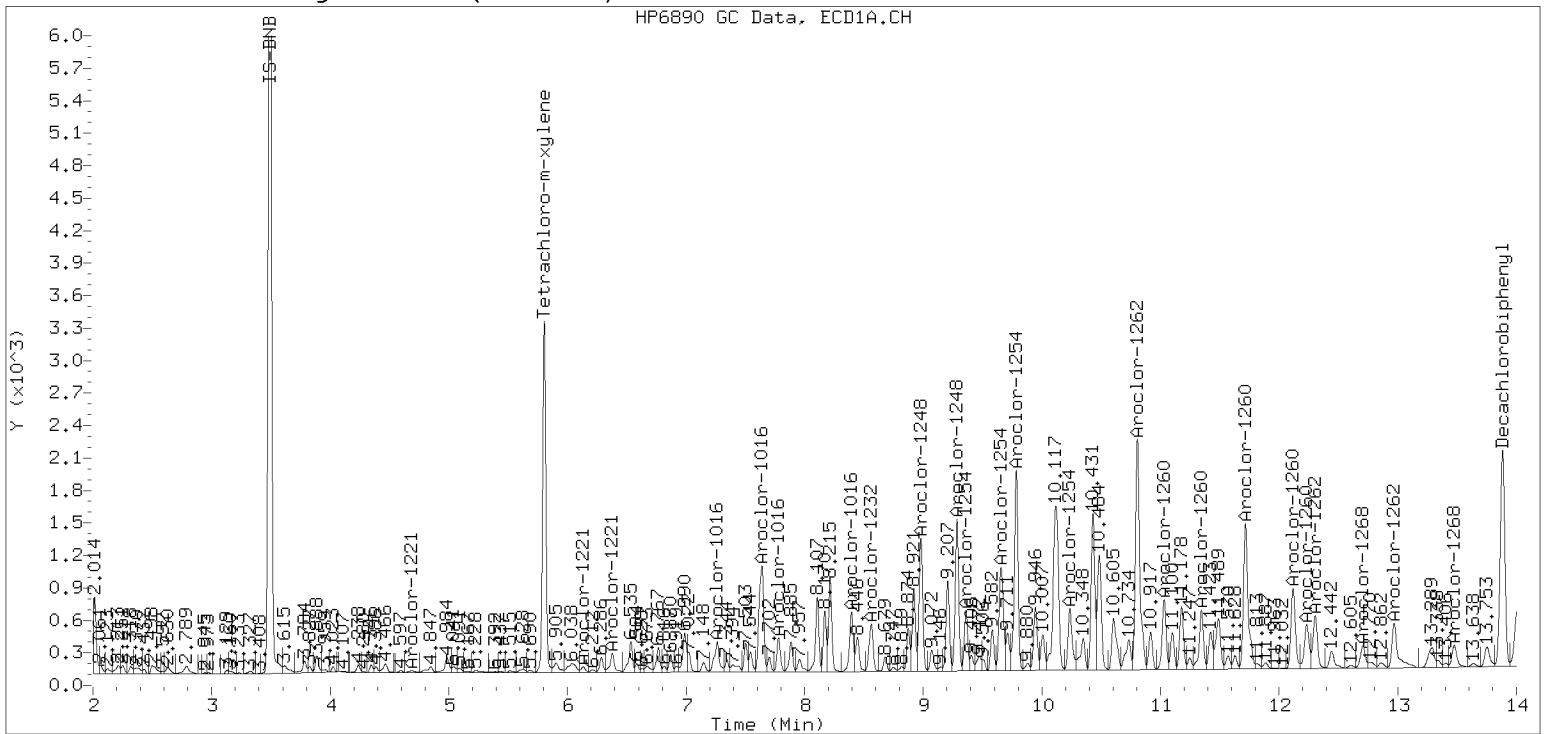
Datafile: ecd7.i/230206.b/02062315ECD7.D

Injection Date: 06-FEB-2023 14:28

Manual Integration (After)



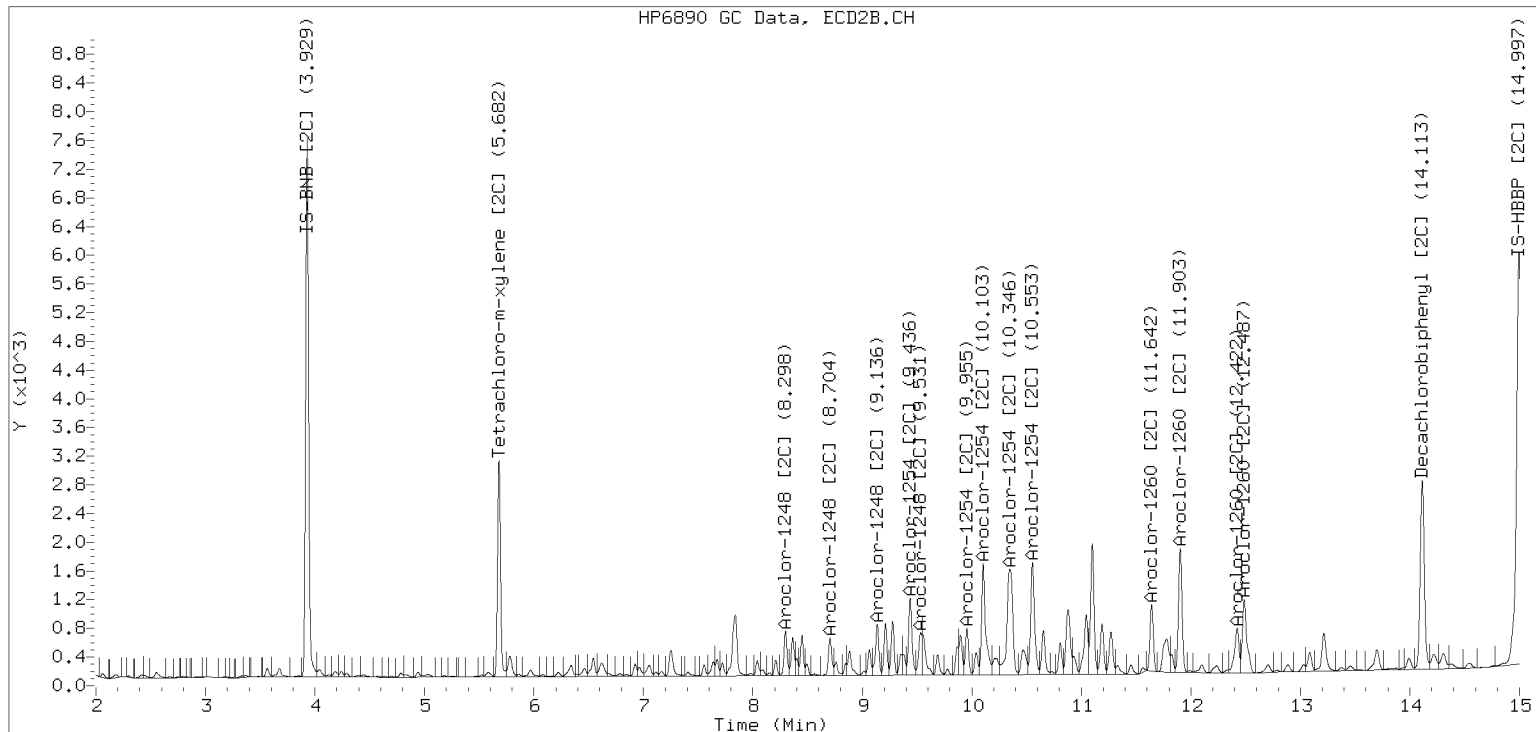
Processed Integration (Before)



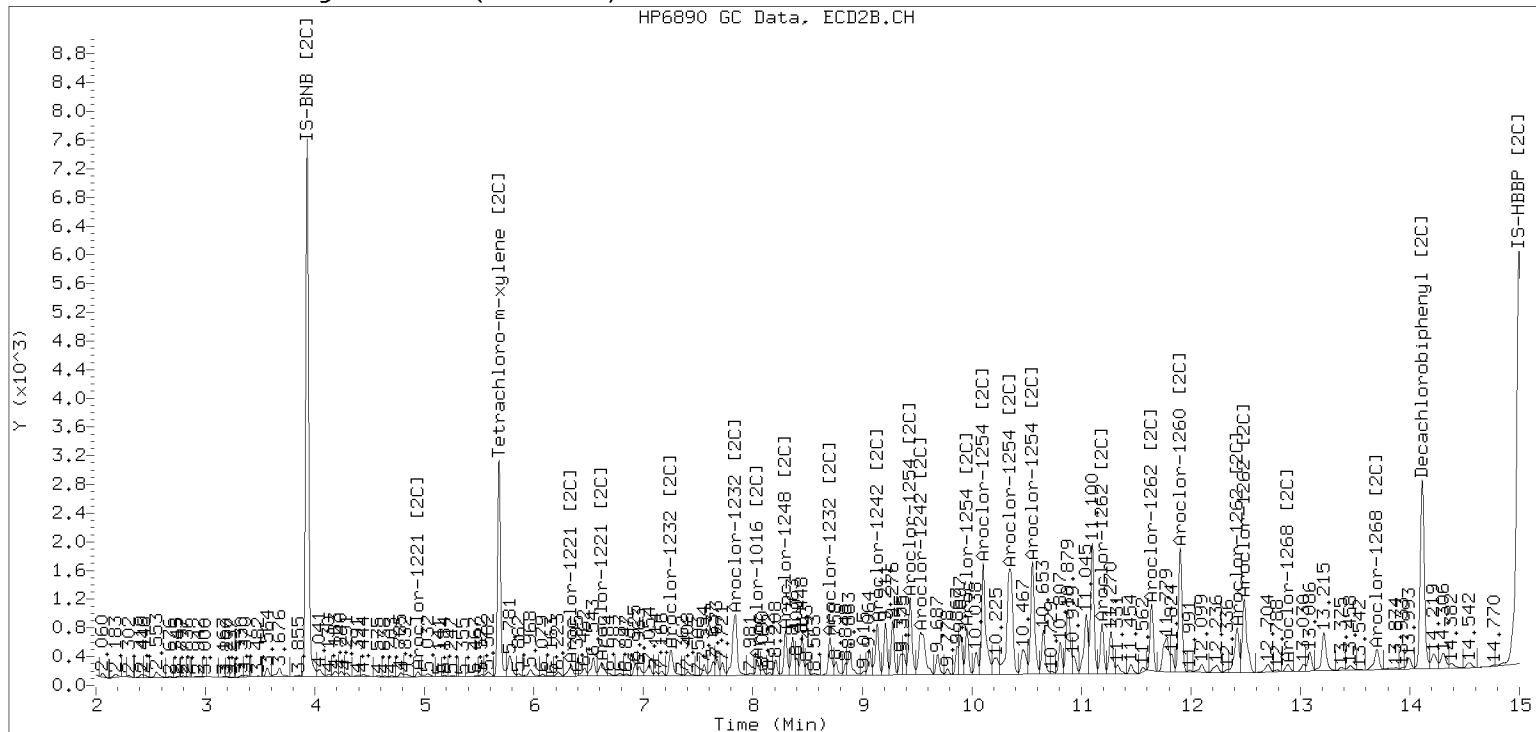
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230206.b/230206.b/02062315ECD7.D Injection Date: 06-FEB-2023

Manual Integration (After)



Processed Integration (Before)





**ORGANIC ANALYSIS DATA SHEET**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: 23A0179-12 A

File ID: 02062316ECD7.D

Sampled: 01/10/23 12:48

Prepared: 01/26/23 11:26

Analyzed: 02/06/23 14:49

% Solids: 49.35

Preparation: EPA 3546 (Microwave)

Initial/Final: 25.4 g Wet / 2.5 mL

Batch: BLA0558

Sequence: SLB0086

Calibration: GA00061

Instrument: ECD7

Column 1: ZB5

Column 2: ZB35

| CAS NO.    | COMPOUND     | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 11104-28-2 | Aroclor 1221 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 11141-16-5 | Aroclor 1232 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 53469-21-9 | Aroclor 1242 | 1     | 1        | 4.0               | 1.6 | 4.0 | U |
| 12672-29-6 | Aroclor 1248 | 1     | 1        | 34.9              | 1.6 | 4.0 |   |
| 11097-69-1 | Aroclor 1254 | 2     | 1        | 53.1              | 1.6 | 4.0 |   |
| 11096-82-5 | Aroclor 1260 | 2     | 1        | 39.5              | 0.6 | 4.0 |   |

| SURROGATES                   | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i>    | 1     | 7.9777            | 5.99             | 75.1  | 40 - 126  |   |
| <i>Tetrachlorometaxylene</i> | 1     | 7.9777            | 5.38             | 67.5  | 44 - 120  |   |
| <i>Decachlorobiphenyl</i>    | 2     | 7.9777            | 5.88             | 73.7  | 40 - 126  |   |
| <i>Tetrachlorometaxylene</i> | 2     | 7.9777            | 5.94             | 74.5  | 44 - 120  |   |



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062316ECD7.D  
Data file 2: /230206.b/230206.b/02062316ECD7.D  
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 23A0179-12  
Client ID:  
Injection Date: 06-FEB-2023 14:49  
Report Date: 02/07/2023 10:35  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.806  | -0.003        | 129053   | 5.682  | -0.002         | 118707   | 27.0       | 29.8        | 9.9 | Tetrachloro-m-xylene |
| 13.884 | -0.007        | 107003   | 14.113 | -0.004         | 142848   | 30.1       | 29.5        | 2.0 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 338395      | -32.8 |
| Hexabromobiphenyl  | 647433         | 332935      | -48.6 |
| Column 2           |                |             |       |
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 336911         | 294775      | -12.5 |
| Hexabromobiphenyl  | 382032         | 305436      | -20.0 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col                 |       |        |        |        |          |  |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|----------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                   | Peak# | RT     | Shift  | Area   | Amount   |  |
| Aroclor-1016             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1016             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1016             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1016             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1221             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1221             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1221             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1232             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1232             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1232             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1232             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1242             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1242             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1242             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1242             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1248             | 1     | 8.396  | -0.010 | 24809  | 146.6                    | 1     | 8.299  | -0.004 | 24592  | 184.6    |  |
| Aroclor-1248             | 2     | 8.564  | -0.016 | 21953  | 101.7                    | 2     | 8.705  | -0.005 | 22169  | 154.6    |  |
| Aroclor-1248             | 3     | 8.982  | -0.017 | 58774  | 142.3                    | 3     | 9.138  | -0.014 | 33085  | 188.8    |  |
| Aroclor-1248             | 4     | 9.285  | -0.008 | 63074  | 308.5                    | 4     | 9.534  | -0.042 | 26712  | 123.2    |  |
| Total CollAve (4 peaks): |       |        |        | 174.8  | Total Col2Ave (4 peaks): |       |        |        | 162.8  | RPD = 7  |  |
| Corrected Ave (3 peaks): |       |        |        | 130.2  | Corrected Ave (3 peaks): |       |        |        | 154.1  | RPD = 17 |  |
| Aroclor-1254             | 1     | 9.285  | -0.014 | 63074  | 182.9                    | 1     | 9.438  | -0.007 | 52110  | 243.7    |  |
| Aroclor-1254             | 2     | 9.361  | -0.017 | 24838  | 168.7                    | 2     | 9.956  | -0.008 | 29108  | 168.4    |  |
| Aroclor-1254             | 3     | 9.657  | -0.012 | 54591  | 247.0                    | 3     | 10.104 | -0.011 | 89519  | 237.4    |  |
| Aroclor-1254             | 4     | 9.785  | -0.023 | 87020  | 201.0                    | 4     | 10.349 | -0.015 | 119793 | 317.7    |  |
| Aroclor-1254             | 5     | 10.119 | -0.058 | 107431 | 381.5                    | 5     | 10.554 | -0.008 | 76248  | 363.1    |  |
| Total CollAve (5 peaks): |       |        |        | 236.2  | Total Col2Ave (5 peaks): |       |        |        | 266.0  | RPD = 12 |  |
| Corrected Ave (4 peaks): |       |        |        | 199.9  | Corrected Ave (4 peaks): |       |        |        | 241.8  | RPD = 19 |  |
| Aroclor-1260             | 1     | 11.032 | -0.012 | 33884  | 181.4                    | 1     | 11.642 | -0.006 | 43023  | 195.3    |  |
| Aroclor-1260             | 2     | 11.347 | -0.013 | 30026  | 156.4                    | 2     | 11.903 | -0.009 | 83679  | 150.1    |  |
| Aroclor-1260             | 3     | 11.717 | -0.017 | 87361  | 172.8                    | 3     | 12.423 | -0.009 | 37495  | 269.8    |  |
| Aroclor-1260             | 4     | 12.117 | -0.022 | 45746  | 175.1                    | 4     | 12.487 | -0.009 | 63820  | 176.9    |  |
| Aroclor-1260             | 5     | 12.233 | -0.011 | 26589  | 233.5                    | NS    | ---    |        |        | ---      |  |
| Total CollAve (5 peaks): |       |        |        | 183.9  | Total Col2Ave (4 peaks): |       |        |        | 198.0  | RPD = 7  |  |
| Corrected Ave (4 peaks): |       |        |        | 171.4  | Corrected Ave (3 peaks): |       |        |        | 174.1  | RPD = 2  |  |
| Aroclor-1262             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1262             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1262             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1262             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |
| Aroclor-1268             | 1     | ---    |        |        | 0.0                      | 1     | ---    |        |        | 0.0      |  |
| Aroclor-1268             | 2     | ---    |        |        | 0.0                      | 2     | ---    |        |        | 0.0      |  |
| Aroclor-1268             | 3     | ---    |        |        | 0.0                      | 3     | ---    |        |        | 0.0      |  |
| Aroclor-1268             | 4     | ---    |        |        | 0.0                      | 4     | ---    |        |        | 0.0      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks  |       |        |        |        |          |  |

Total PCB Area Col1 (5.909 - 13.792) = 1756191 Col1 Total PCB = 0.4 ppm\*

Total PCB Area Col2 (5.784 - 14.017) = 1662247 Col2 Total PCB = 0.5 ppm\*

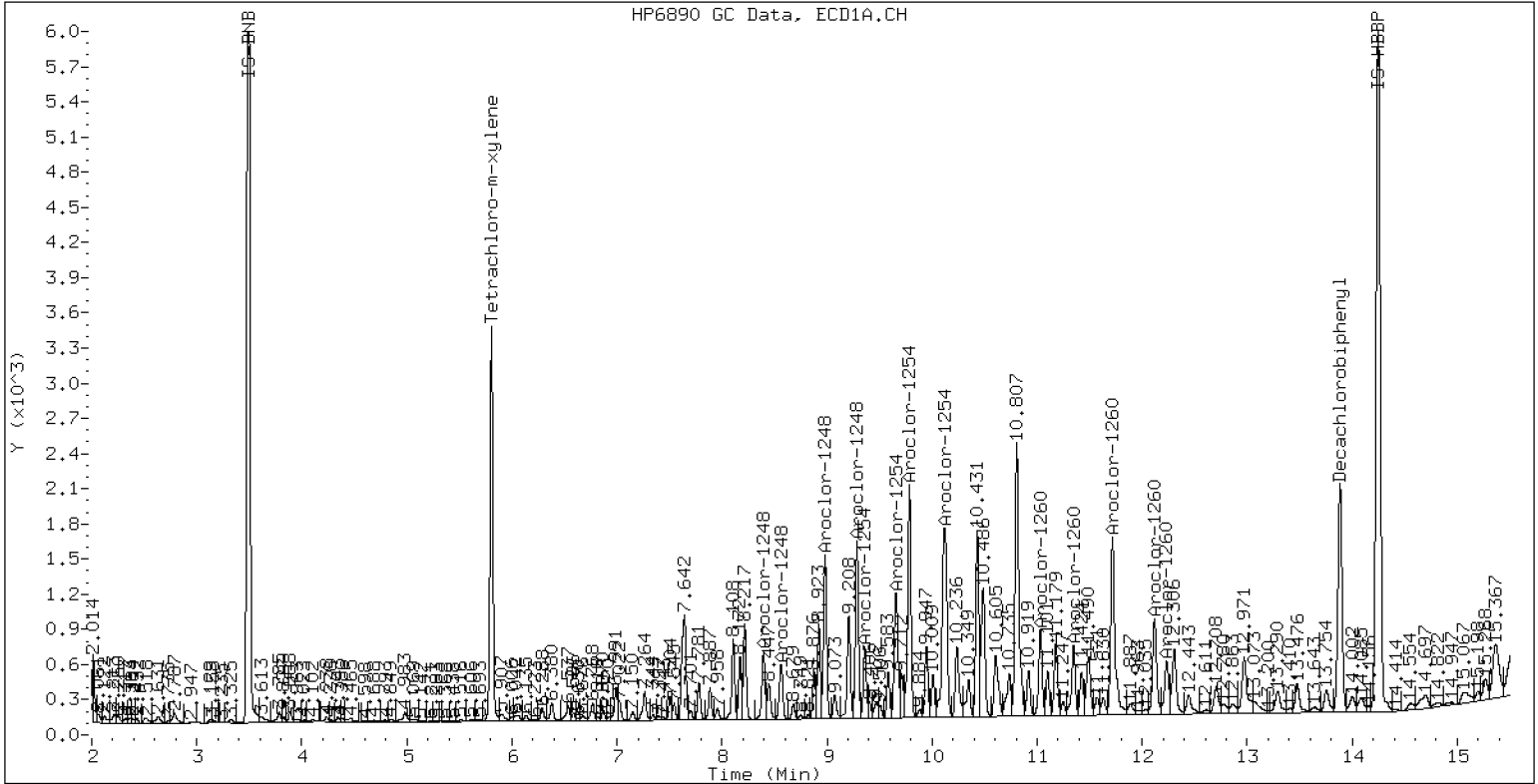
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 23A0179-12

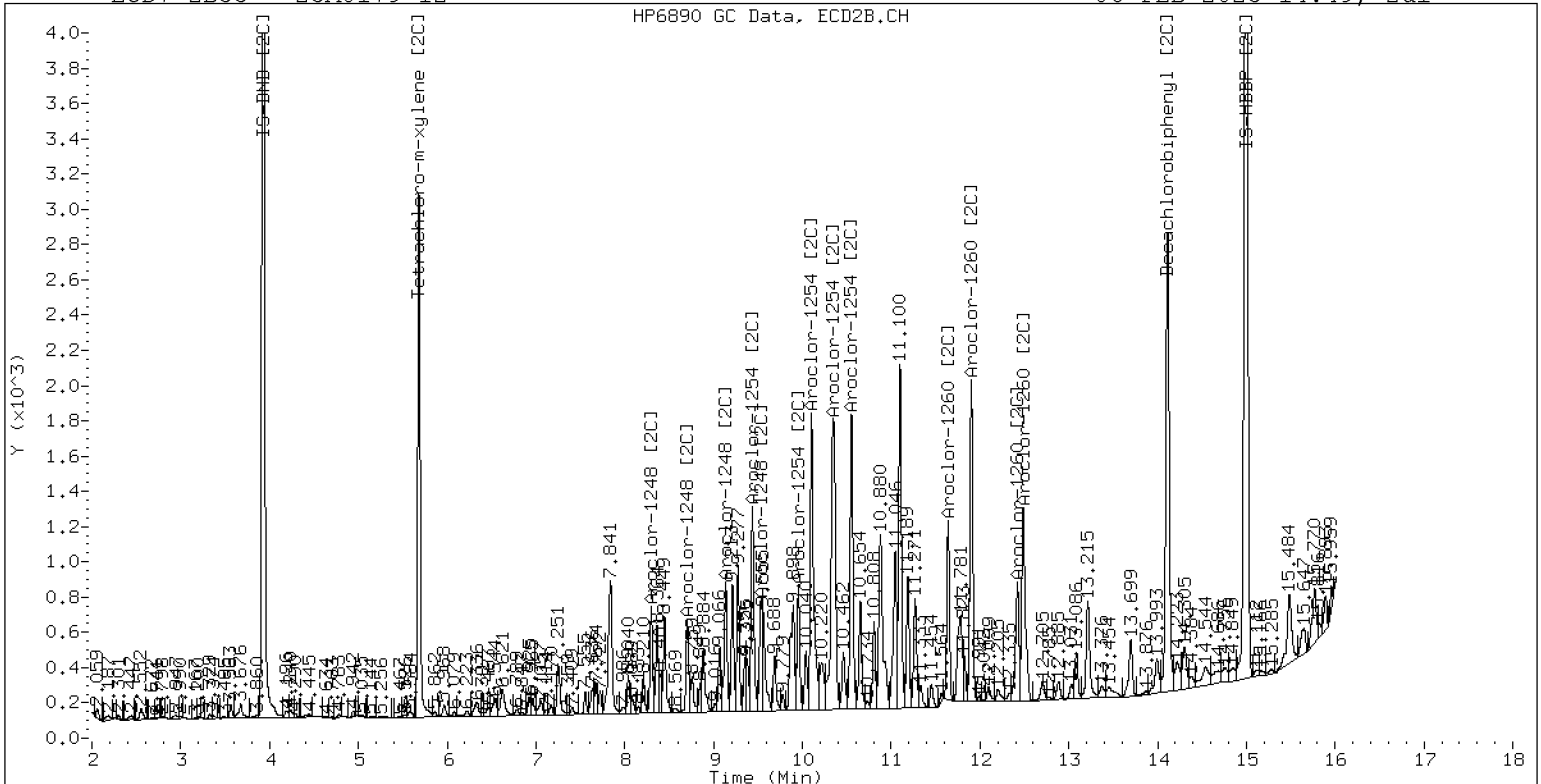
06-FEB-2023 14:49, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 23A0179-12

06-FEB-2023 14:49, 2ul

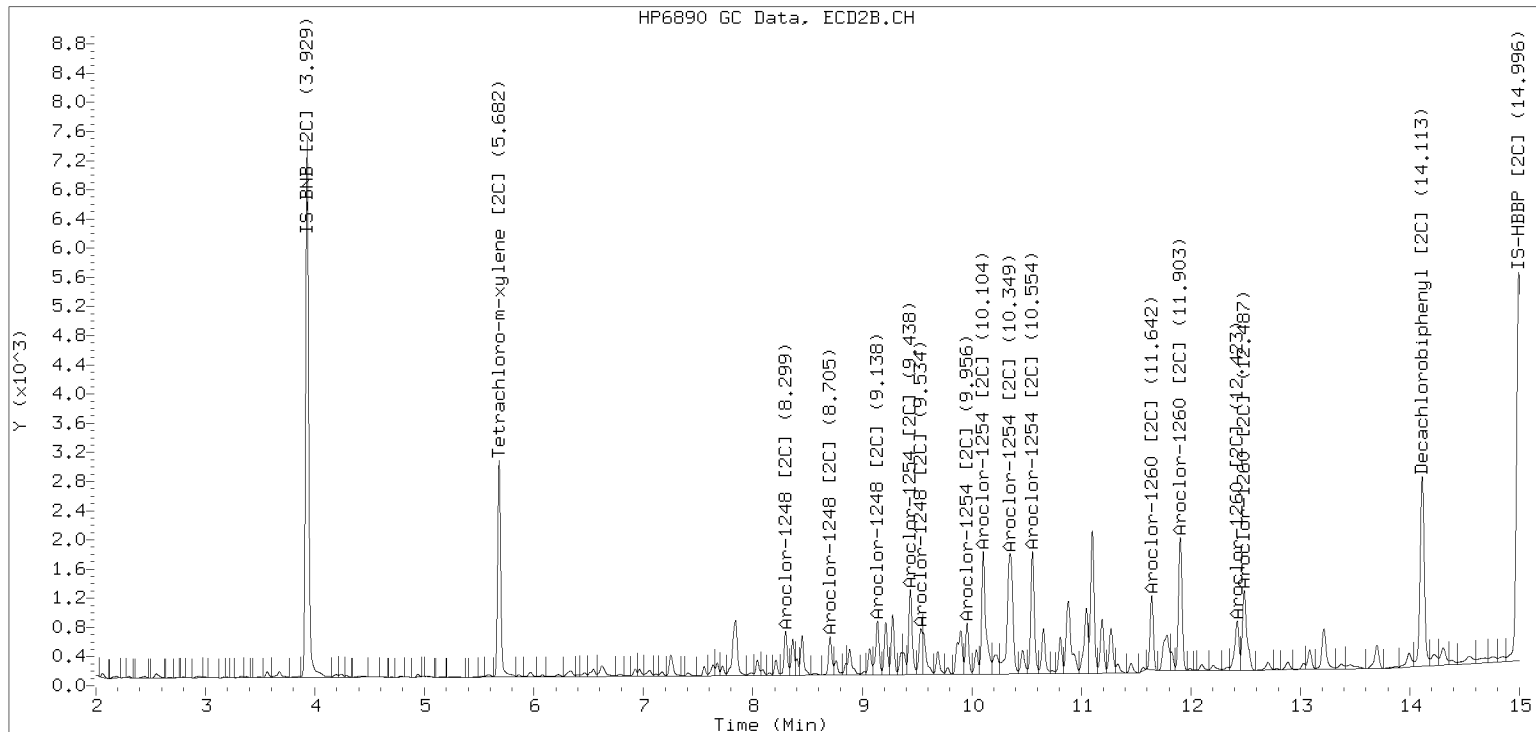


ZB-35 Manual Integration: YES

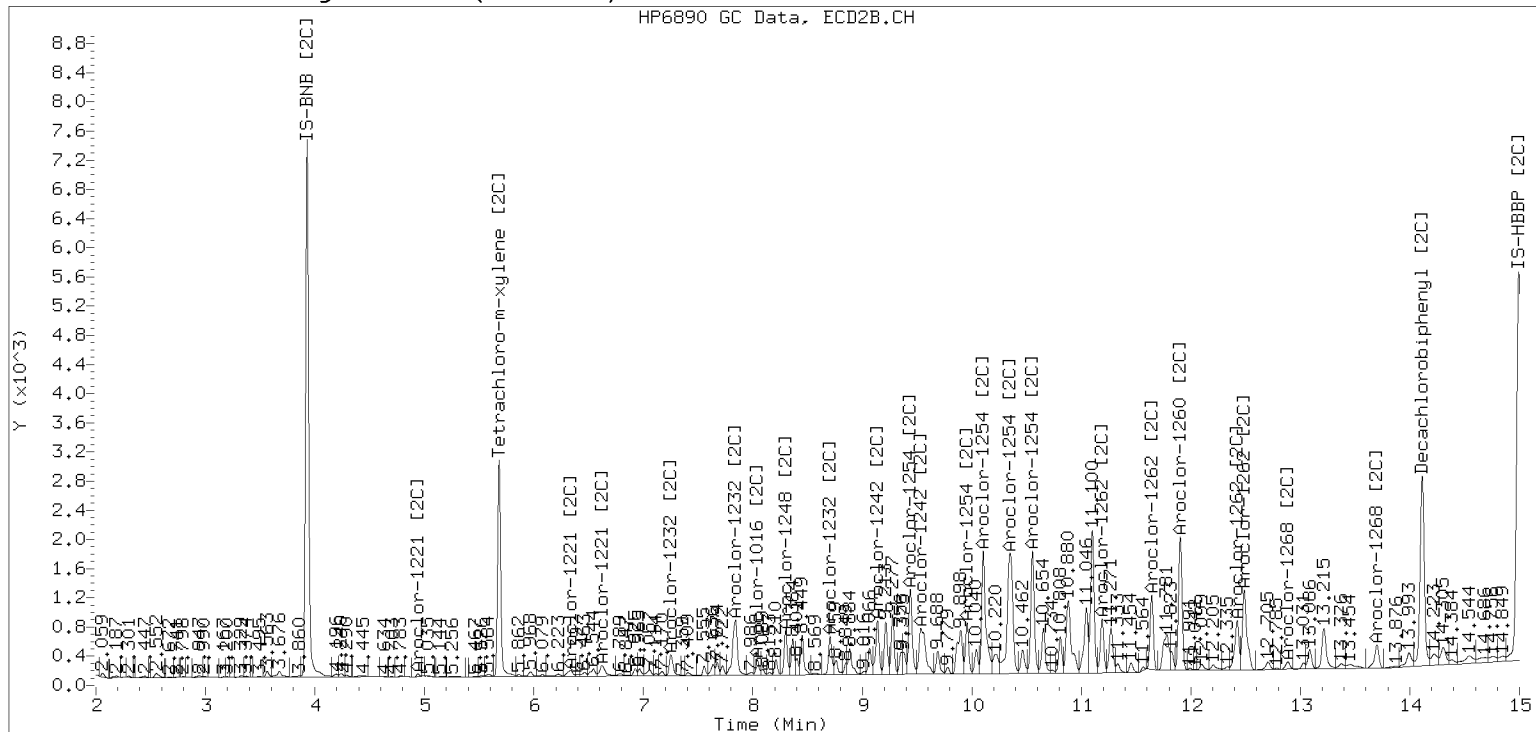
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230206.b/230206.b/02062316ECD7.D Injection Date: 06-FEB-2023

Manual Integration (After)



Processed Integration (Before)





**PREPARATION BATCH SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC SDG: 23A0179  
Client: Anchor QEA, LLC Project: AOC5 MR Phase 1  
Batch: BLA0558 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

| SAMPLE NAME  | LAB SAMPLE ID | LAB FILE ID    | DATE PREPARED  | OBSERVATIONS |
|--------------|---------------|----------------|----------------|--------------|
| LDW23-SS1277 | 23A0179-01    | 02042319ECD7.D | 01/26/23 11:26 |              |
| LDW23-SS1271 | 23A0179-02    | 02042320ECD7.D | 01/26/23 11:26 |              |
| LDW23-SS1266 | 23A0179-03    | 02042321ECD7.D | 01/26/23 11:26 |              |
| LDW23-SS1248 | 23A0179-04    | 02042322ECD7.D | 01/26/23 11:26 |              |
| LDW23-SS1239 | 23A0179-05    | 02042323ECD7.D | 01/26/23 11:26 |              |
| LDW23-SS1213 | 23A0179-06    | 02042324ECD7.D | 01/26/23 11:26 |              |
| LDW23-SS1200 | 23A0179-07    | 02042325ECD7.D | 01/26/23 11:26 |              |
| LDW23-SS1178 | 23A0179-08    | 02042326ECD7.D | 01/26/23 11:26 |              |
| LDW23-SS1171 | 23A0179-09    | 02062310ECD7.D | 01/26/23 11:26 |              |
| LDW23-SS1112 | 23A0179-10    | 02062309ECD7.D | 01/26/23 11:26 |              |
| LDW23-SS1039 | 23A0179-11    | 02062315ECD7.D | 01/26/23 11:26 |              |
| LDW23-SS1007 | 23A0179-12    | 02062316ECD7.D | 01/26/23 11:26 |              |
| Blank        | BLA0558-BLK1  | 02042315ECD7.D | 01/26/23 11:26 |              |
| LCS          | BLA0558-BS1   | 02042316ECD7.D | 01/26/23 11:26 |              |
| LCS Dup      | BLA0558-BSD1  | 02042317ECD7.D | 01/26/23 11:26 |              |
| LDW23-SS1178 | BLA0558-MS1   | 02042327ECD7.D | 01/26/23 11:26 |              |
| LDW23-SS1178 | BLA0558-MSD1  | 02042328ECD7.D | 01/26/23 11:26 |              |
| Reference    | BLA0558-SRM1  | 02042318ECD7.D | 01/26/23 11:26 |              |



Batch: BLA0558

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

Matrix: Solid

Date Prepared: 01/26/23

Balance ID: B146462614

Set Up By: CJO 1/24/23

WO Comments

23A0179: <C>BPR SRM, MS, DUP <C> <M>BPR PS, MS/MSD <M> <E>BPR 8270E RM K000591, SIM PAH RM 1009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD <E> <H>BPR J006840-43, 7935-36, K011477-79, Dup <H> Store in freezer (except GS)

The following standards may be missing from this batch!

| Designator | Description |
|------------|-------------|
| QLS 5      | QLS Spike   |

Analysis: 8082A PCB Solid 4

| Lab Number & Container | % Solids | Initial (g)            |        | (REQ) Acid C/U (5mL) | (REQ) Sulfur C/U (5mL) | (REQ) Silica Gel C/U (2:5) | Final Effective Vol (mL) | Vol (mL) to Lab | Extraction Comments |
|------------------------|----------|------------------------|--------|----------------------|------------------------|----------------------------|--------------------------|-----------------|---------------------|
|                        |          | Target Dry: 12.5 (Wet) | Actual |                      |                        |                            |                          |                 |                     |
| 23A0179-01 A           | 59.0     | (21.19)                | 21.24  | 5mL                  | 5mL                    | 2mL                        | 2.5                      | 1.0             |                     |
| 23A0179-02 A           | 66.2     | (18.88)                | 18.89  | 5mL                  | 5mL                    | 2mL                        | 2.5                      | 1.0             |                     |
| 23A0179-03 A           | 58.6     | (21.34)                | 21.36  | 5mL                  | 5mL                    | 2mL                        | 2.5                      | 1.0             |                     |
| 23A0179-04 A           | 53.7     | (23.26)                | 23.27  | 5mL                  | 5mL                    | 2mL                        | 2.5                      | 1.0             |                     |
| 23A0179-05 A           | 67.4     | (18.55)                | 18.55  | 5mL                  | 5mL                    | 2mL                        | 2.5                      | 1.0             |                     |
| 23A0179-06 A           | 54.0     | (23.16)                | 23.20  | 5mL                  | 5mL                    | 2mL                        | 2.5                      | 1.0             |                     |
| 23A0179-07 A           | 74.6     | (16.76)                | 16.77  | 5mL                  | 5mL                    | 2mL                        | 2.5                      | 1.0             |                     |
| 23A0179-08 A           | 61.4     | (20.37)                | 20.38  | 5mL                  | 5mL                    | 2mL                        | 2.5                      | 1.0             |                     |
| 23A0179-09 A           | 53.0     | (23.58)                | 23.60  | 5mL                  | 5mL                    | 2mL                        | 2.5                      | 1.0             |                     |
| 23A0179-10 A           | 49.3     | (25.37)                | 25.39  | 5mL                  | 5mL                    | 2mL                        | 2.5                      | 1.0             |                     |
| 23A0179-11 A           | 49.6     | (25.18)                | 25.23  | 5mL                  | 5mL                    | 2mL                        | 2.5                      | 1.0             |                     |
| 23A0179-12 A           | 49.4     | (25.33)                | 25.40  | 5mL                  | 5mL                    | 2mL                        | 2.5                      | 1.0             |                     |

Batch QC

| Lab Number   | % Solids | Initial (g)               |        | (REQ) Acid C/U (5mL) | (REQ) Sulfur C/U (5mL) | (REQ) Silica Gel C/U (2:5) | Final Effective Vol (mL) | Vol (mL) to Lab | Extraction Comments         |
|--------------|----------|---------------------------|--------|----------------------|------------------------|----------------------------|--------------------------|-----------------|-----------------------------|
|              |          | Target Dry: 12.5 (Wet)    | Actual |                      |                        |                            |                          |                 |                             |
| BLA0558-BLK1 | 100.0    | (12.50)                   | 12.50  | 5mL                  | 5mL                    | 2mL                        | 2.5                      | 1.0             | (10g Actual Wt.)            |
| BLA0558-BS1  | 100.0    | (12.50)                   | 12.54  | 5mL                  | 5mL                    | 2mL                        | 2.5                      | 1.0             | (10g Actual Wt.)            |
| BLA0558-BSD1 | 100.0    | (12.50)                   | 12.54  | 5mL                  | 5mL                    | 2mL                        | 2.5                      | 1.0             | (10g Actual Wt.)            |
| BLA0558-MS1  | 61.4     | (20.37)                   | 20.37  | 5mL                  | 5mL                    | 2mL                        | 2.5                      | 1.0             | Use 23A0179-08              |
| BLA0558-MSD1 | 61.4     | (20.37)                   | 20.37  | 5mL                  | 5mL                    | 2mL                        | 2.5                      | 1.0             | Use 23A0179-08              |
| BLA0558-SRM1 | 100.0    | (12.50) <sup>(2.50)</sup> | 12.50  | 5mL                  | 5mL                    | 2mL                        | 2.5                      | 1.0             | Use K011478<br>+1g DI WATER |

Client verified By: [Signature] Date: 01/26/23

Preparation Reviewed By: [Signature] Date: 2/3/23

Extraction Date and Time: 01/26/23 11:26



Batch: BLA0558

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments  
23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Steps

Reagents Used

Surrogates & Spike Standards Used

|  |
|--|
| <p>Microwave</p> <p>① 2 3</p> <p>φ1/26/23</p> <p>Analyst/Date</p>  |
| <p>KD</p> <p>100°C</p> <p>Hexane Exchange</p> <p>(2 X 20 mL)</p> <p>① 2 3 4 ⑤ 6</p> <p>TWC 1/31/23</p> <p>Analyst/Date</p> |
| <p>TurboVap</p> <p>Pre Cleanups</p> <p>1 2 3 ④ 5</p> <p>TWC 2/2/23</p> <p>Analyst/Date</p>                                 |
| <p>TurboVap</p> <p>Post Cleanups</p> <p>1 ② 3 4 5</p> <p>TWC 2/3/23</p> <p>Analyst/Date</p>                                |
| <p>Vialing</p> <p>TWC 2/3/23</p> <p>Analyst/Date</p>   |

| Station/Reagent                           | Standard ID     |
|---|-----------------|
| Microwave                                 |                 |
| Analyst: <i>KT</i> Date: <i>φ1/26/23</i>  |                 |
| Neutral Glass Wool                        | <i>Lφφφ45φ</i>  |
| 1:1 Hexane/Acetone                        | <i>Lφφφ646</i>  |
| Hexane                                    | <i>Kφφ8331φ</i> |
| Anhydrous Sodium Sulfate                  | <i>Lφφφ453</i>  |
| KD  |                 |
| Analyst: <i>TWC</i> Date: <i>1/31/23</i>  |                 |
| Anhydrous Sodium Sulfate                  | <i>N/A</i>      |
| Hexane                                    | <i>Kφφ11373</i> |
| Vialing                                   |                 |
| Analyst: <i>TWC</i> Date: <i>2/3/23</i>   |                 |
| Hexane                                    | <i>Kφφ11373</i> |
| Concentrated Sulfuric Acid                | <i>Lφφφ1φ33</i> |
| Silica Gel (SPE) Darts                    | <i>Lφφφ1φ84</i> |
| Sodium Sulfite                            | <i>Kφφ1φ363</i> |
| Tetrabutylammonium hydrogensulfate (TBAS) | <i>Lφφφ84φ</i>  |

| Type      | Vial ID / Standard ID      | Vol uL | Analyst   | Witness  |
|-----------|----------------------------|--------|-----------|----------|
| Surrogate | N <i>L000773</i>           | 50µL   | <i>CT</i> | <i>J</i> |
| 2µg/mL    | Exp Date: <i>7/21/2φ23</i> |        |           |          |
| Spike     | 1 <i>K008150</i>           | 63µL   | <i>CT</i> | <i>J</i> |
| 20µg/mL   | Exp Date: <i>3/5/2φ23</i>  |        |           |          |

MANUALLY ENTER EXPIRATION DATES!

(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.

If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator in the Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).





Batch: BLA0558

Prepared using: EPA 3546 (Microwave)  
8082A PCB Solid 4 in Solid (Version:7 Aroclors)

**WO Comments**  
23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E> <H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

| Prep Instructions  |  |
|--|--|
| <p><b>SPECIAL INSTRUCTIONS:</b></p> <ol style="list-style-type: none"> <li>1. Weigh soil/sed into beakers-lightly dry with sodium sulfate.</li> <li>2. Transfer to microwave vessel(s). Note: (do not fill vessels more than 2/3rd full. Some samples may require two vessels).</li> <li>3. Add 1:1 Hexane/Acetone until the solvent layer is 3 inches above the soil layer after homogenization.</li> <li>4. Add surr/spike.</li> <li>5. Microwave on appropriate power setting determined by # of samples.</li> <li>6. After microwave-Re-homogenize while hot then cool vessels in R-05 15 minutes. Re-homogenize while cool.</li> <li>7. Decant 1:1 Hex/Ace into Erlenmeyer flask with sodium sulfate in bottom and funnel with neutral glasswool plug.</li> <li>8. Re-homogenize and rinse with 1:1 Hexane/Acetone.</li> <li>9. Let cool and decant solvent then empty the soil into the funnel and rinse with Hexane.</li> <li>10. KD on 100° bath.</li> <li>11. Exchange (2 X with 20mL) Hexane.</li> <li>12. TurboVap.</li> <li>13. Clean-ups.</li> <li>14. TurboVap.</li> <li>15. Vial with Hexane.</li> </ol> <p>A. Need Total Solids Y <input type="checkbox"/> N</p> <p>B. Archive/Freeze <input checked="" type="checkbox"/> Y <input type="checkbox"/> N</p> |  |

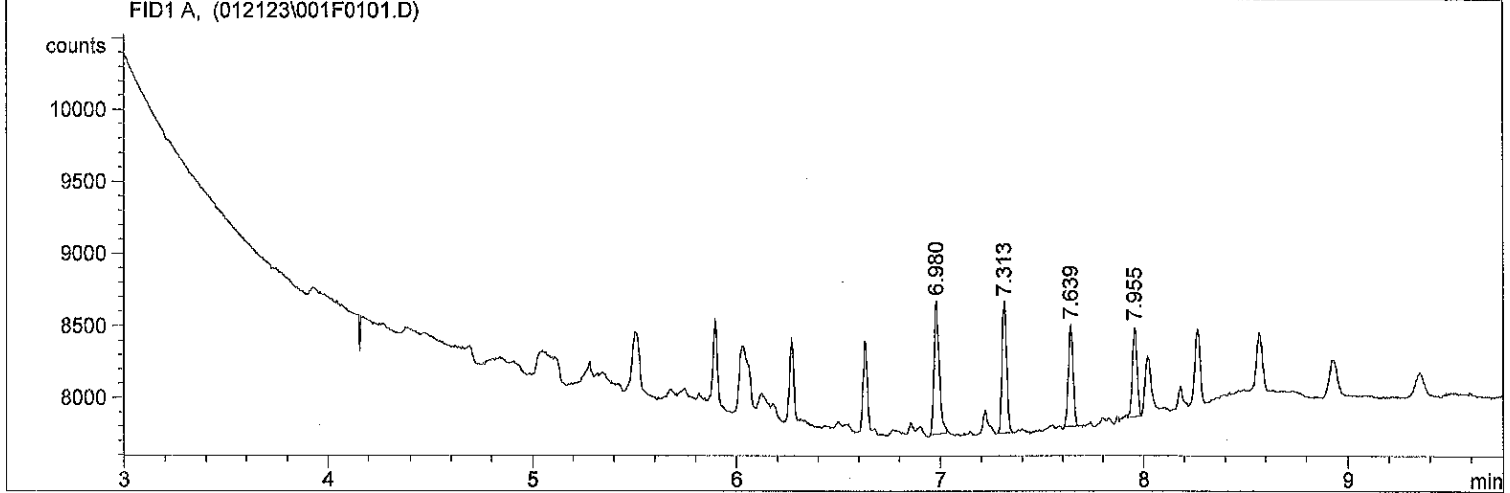
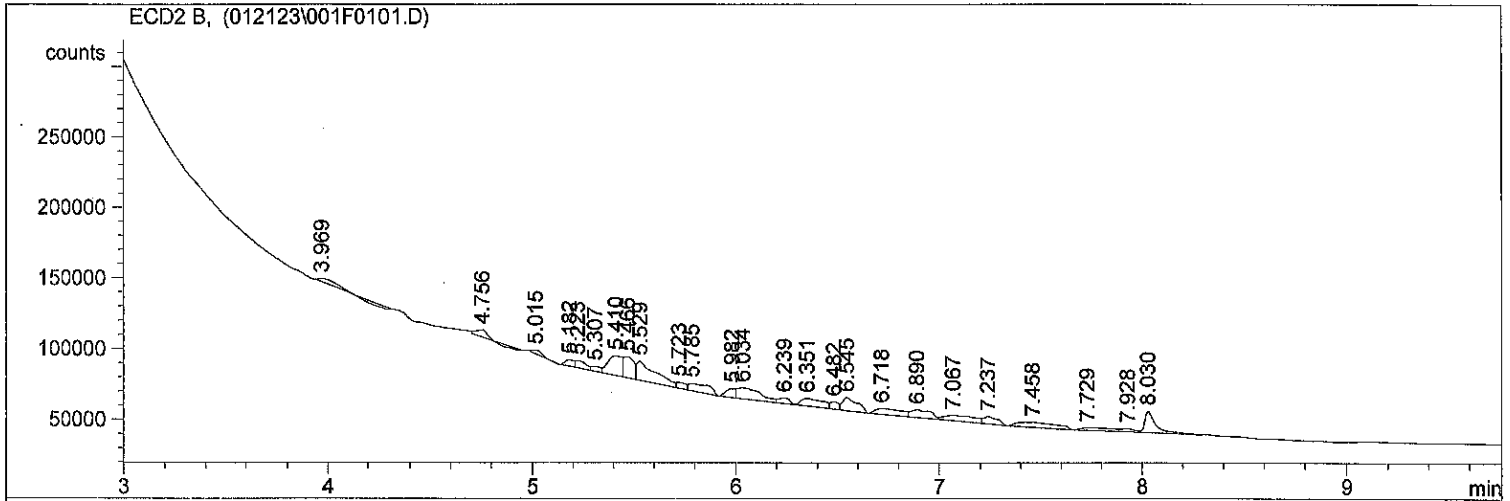


Extraction Parameter: PLP Extraction Batch BLA0558

Total Solids Batch: BLA0444 Work Order(s): 23A0179

| Screens: Soil/Sediment/Solid/Other:   | Analyst/Date       |
|---|--------------------|
| <input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= <u>φ1-12</u> | <u>aj φ1/21/23</u> |
| <input checked="" type="checkbox"/> Standing Water Decanted (Not shared)= <u>φ1-12</u>                  | <u>aj φ1/21/23</u> |
| <input type="checkbox"/> Standing Water Homogenized (Shared samples)=                                   | <u>aj</u>          |
| <input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=   |                    |
| <input type="checkbox"/> Rocks (%+size)?  |                    |
| <input type="checkbox"/> Organics (Leaves/sticks/grass)=  |                    |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors=   |                    |
| <input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=                             |                    |
| <input type="checkbox"/> Previously Frozen =  |                    |
| <input type="checkbox"/> Other (Details)=   |                    |
| Aqueous:  |                    |
| <input checked="" type="checkbox"/> No Anomalies  |                    |
| <input type="checkbox"/> Turbid/Color=  |                    |
| <input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)                             |                    |
| <input type="checkbox"/> Emulsions (%)=   |                    |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors=   |                    |
| <input type="checkbox"/> Other (Details)=   |                    |
| <input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=                                    |                    |
| <input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).           |                    |
| <input checked="" type="checkbox"/> Share Samples Y/N   | <u>N φ1/21/23</u>  |
| <input checked="" type="checkbox"/> Multiple Jars Y/N   | <u>aj φ1/21/23</u> |
| <input type="checkbox"/> Sample Pre-Screens indicate analyte activity=                                  |                    |
| <input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=                            |                    |

=====  
Injection Date : 1/21/2023 11:35:33 AM      Seq. Line : 1  
Sample Name : DCM RINSE                      Location : Vial 1  
Acq. Operator : YL                              Inj : 1  
   Inj Volume : 1 µl  
Sequence File : C:\HPCHEM\1\SEQUENCE\012123.S  
Method : C:\HPCHEM\1\METHODS\SCREEN.M  
Last changed : 7/9/2021 3:37:33 AM by TW  
SCREEN METHOD  
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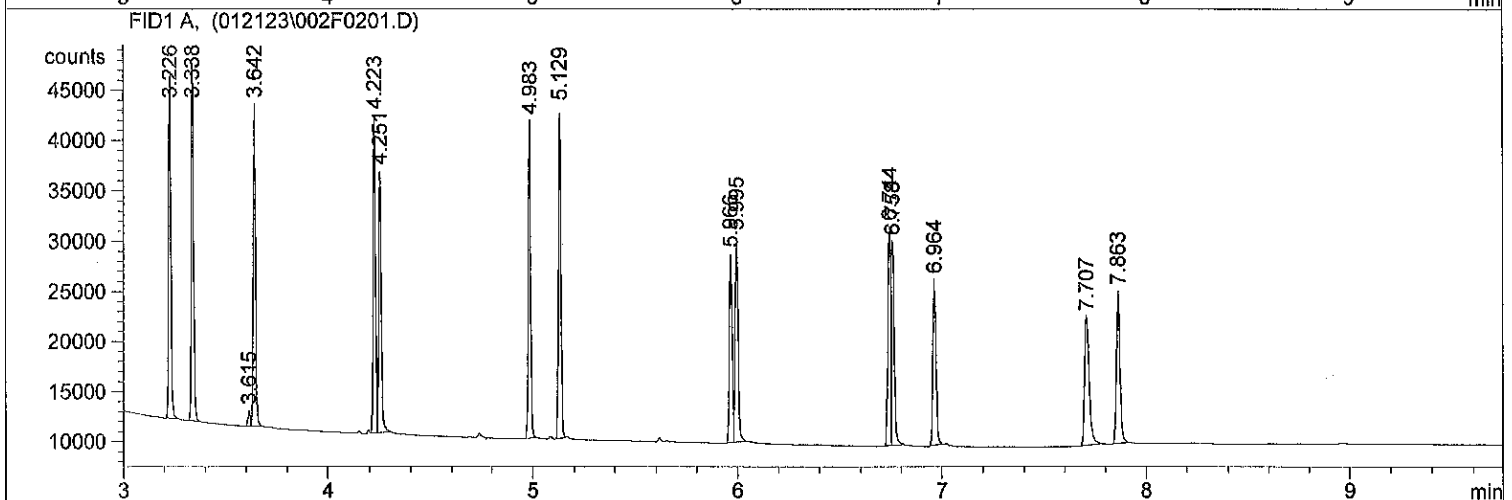
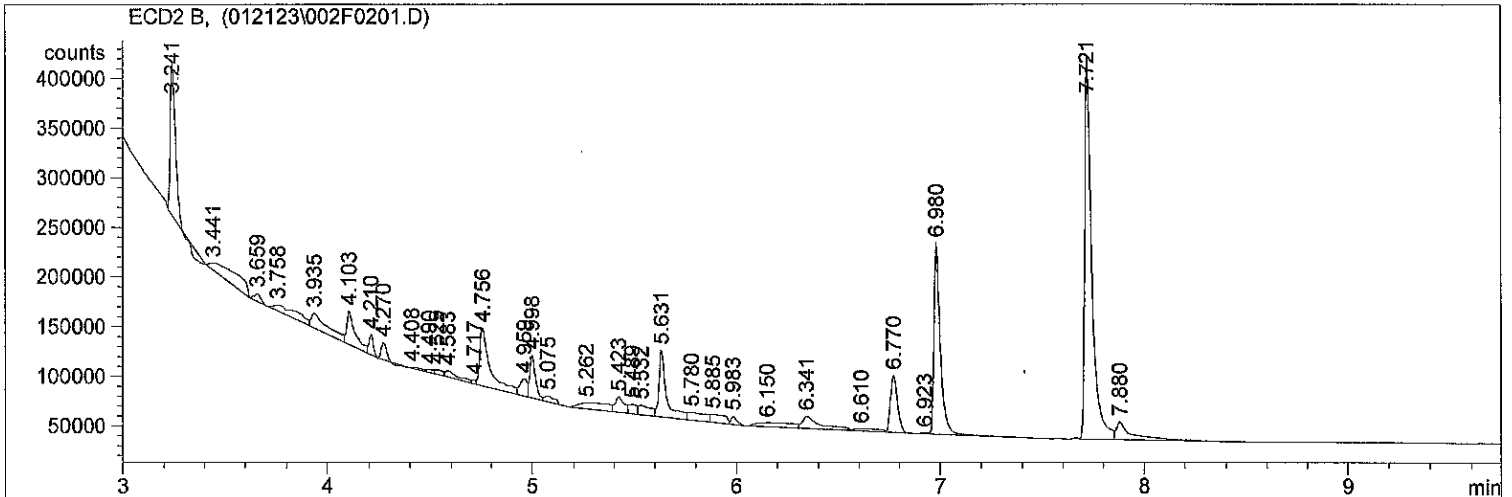
\*\*\* End of Report \*\*\*

```

=====
Injection Date : 1/21/2023 11:49:49 AM      Seq. Line : 2
Sample Name    : PNA STD 10PPM              Location  : Vial 2
Acq. Operator  : YL                          Inj      : 1
                                           Inj Volume: 1 µl

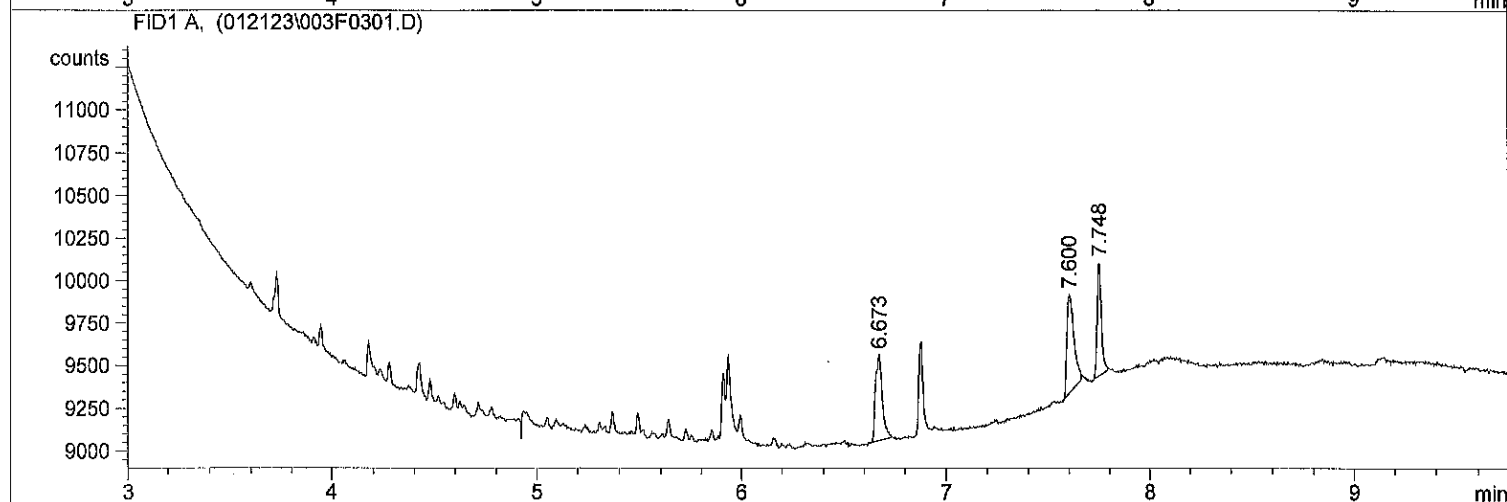
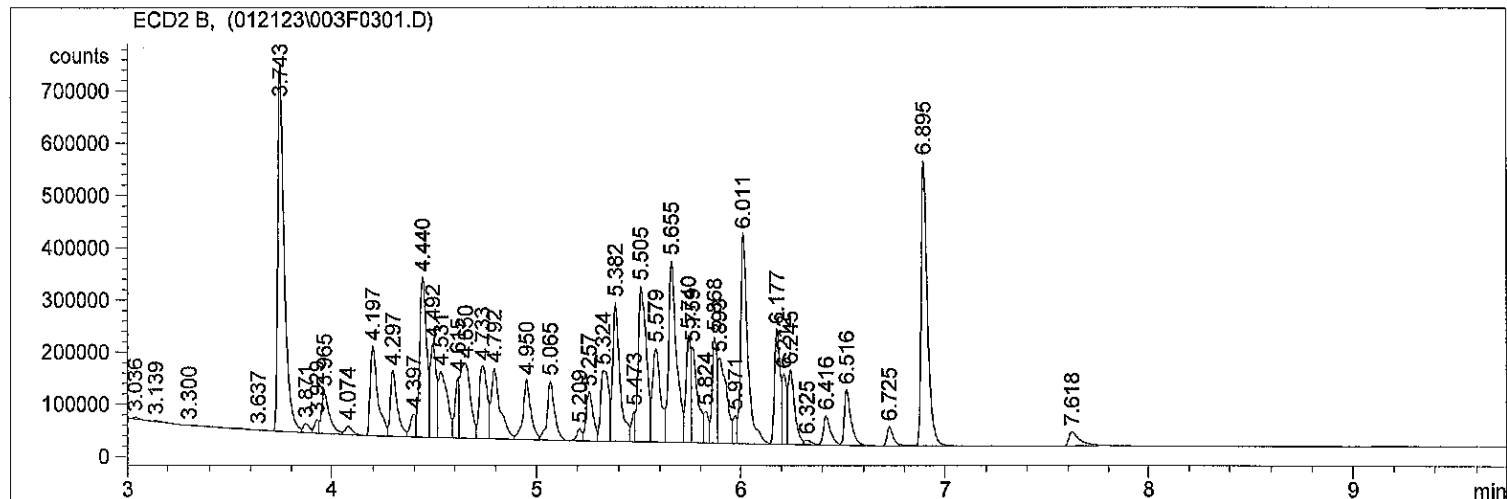
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Method         : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed   : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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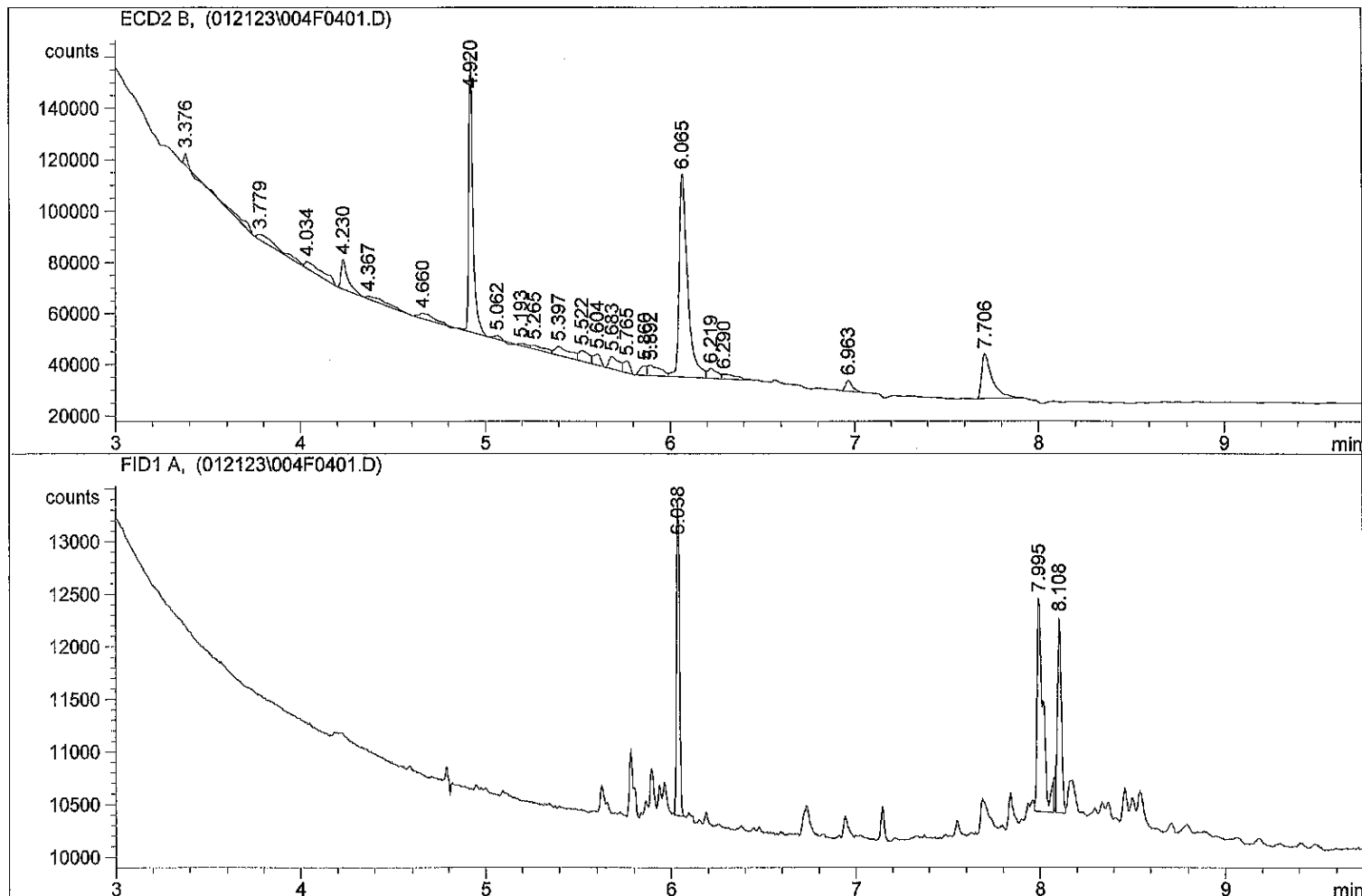
\*\*\* End of Report \*\*\*

Injection Date : 1/21/2023 12:03:36 PM      Seq. Line : 3  
Sample Name : AR1660 1PPM                      Location : Vial 3  
Acq. Operator : YL                                      Inj : 1  
    Inj Volume : 1 µl  
Sequence File : C:\HPCHEM\1\SEQUENCE\012123.S  
Method : C:\HPCHEM\1\METHODS\SCREEN.M  
Last changed : 7/9/2021 3:37:33 AM by TW  
SCREEN METHOD



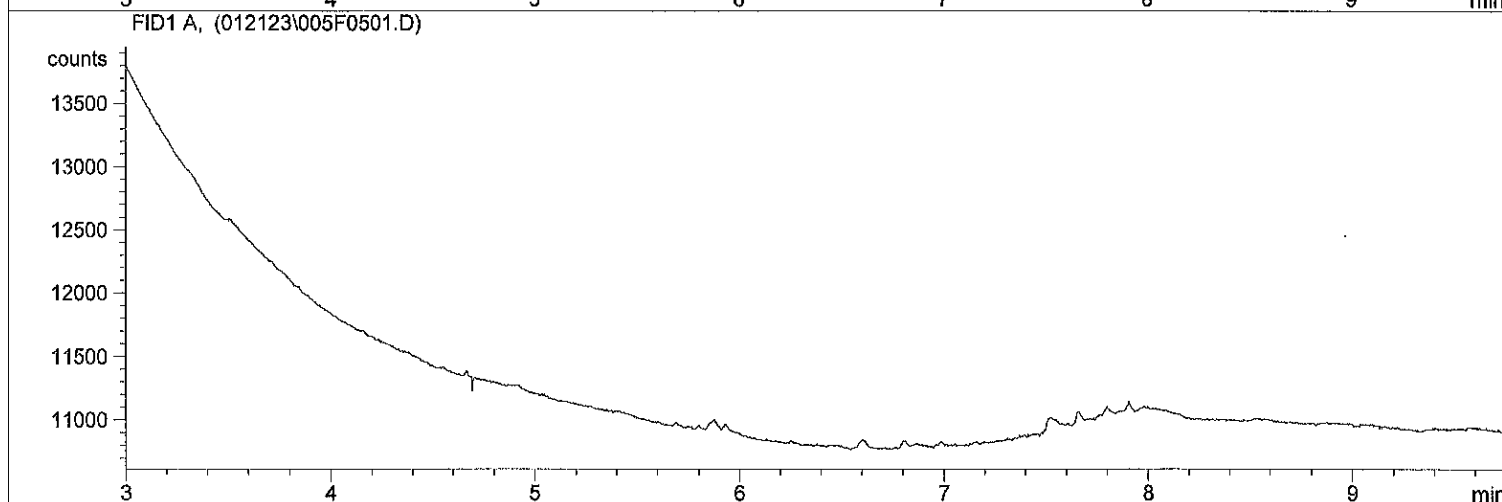
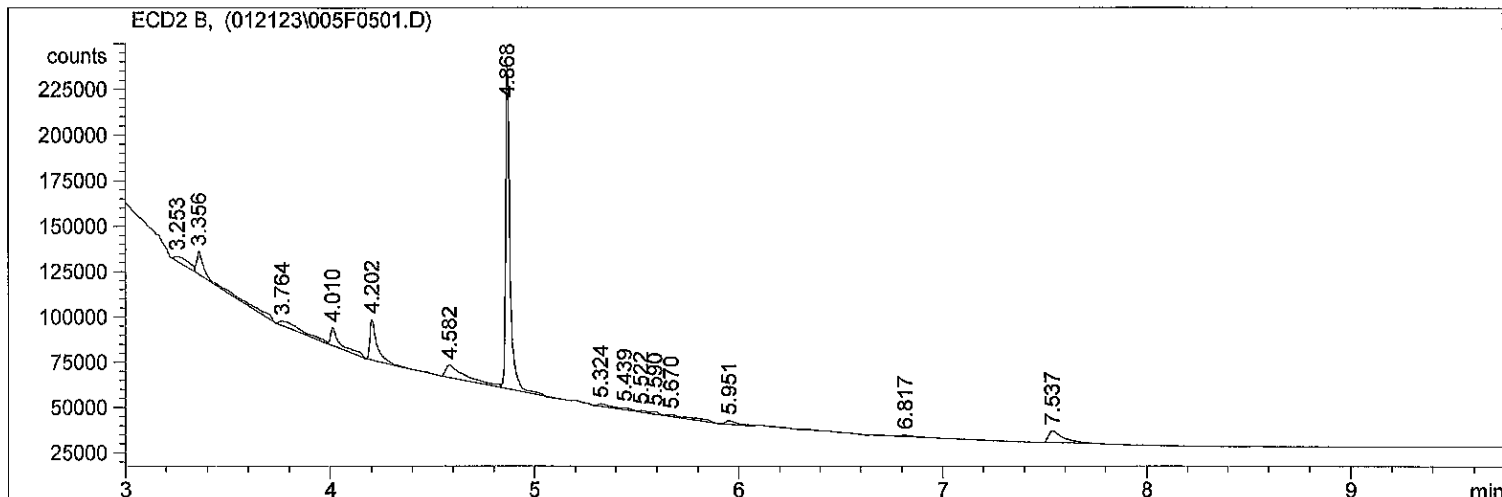
\*\*\* End of Report \*\*\*

=====  
Injection Date : 1/21/2023 12:16:21 PM      Seq. Line : 4  
Sample Name : 23A0179 01                      Location : Vial 4  
Acq. Operator : YL                              Inj : 1  
   Inj Volume : 1 µl  
  
Sequence File : C:\HPCHEM\1\SEQUENCE\012123.S  
Method : C:\HPCHEM\1\METHODS\SCREEN.M  
Last changed : 7/9/2021 3:37:33 AM by TW  
SCREEN METHOD  
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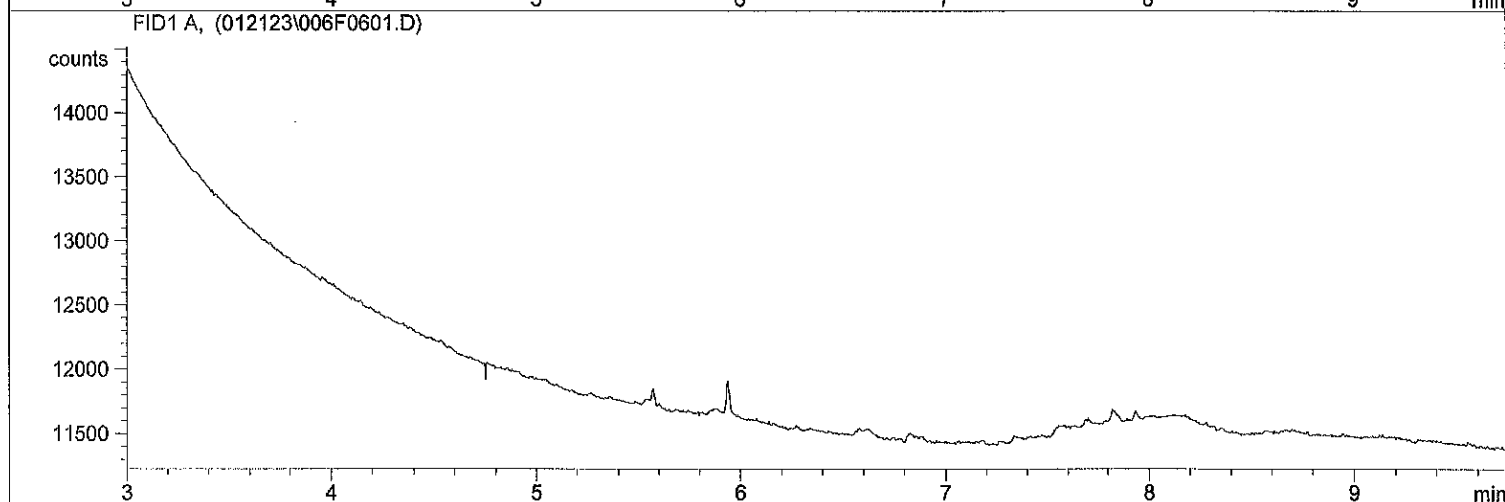
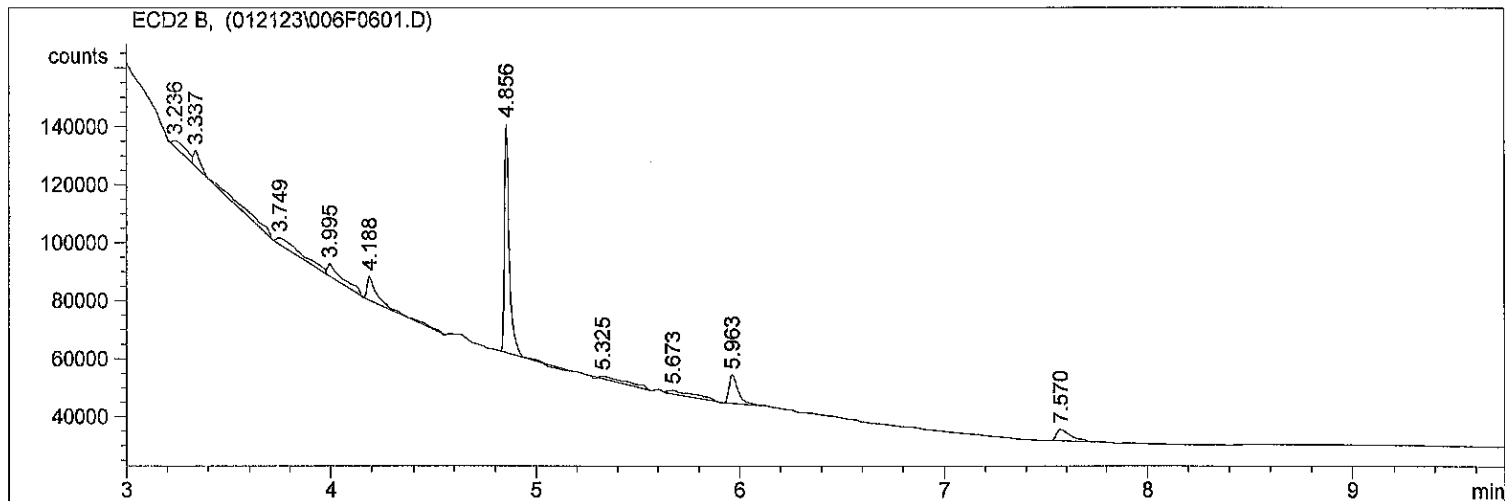
\*\*\* End of Report \*\*\*

=====  
Injection Date : 1/21/2023 12:35:23 PM      Seq. Line : 5  
Sample Name : 23A0179 02                      Location : Vial 5  
Acq. Operator : YL                              Inj : 1  
   Inj Volume : 1 µl  
Sequence File : C:\HPCHEM\1\SEQUENCE\012123.S  
Method : C:\HPCHEM\1\METHODS\SCREEN.M  
Last changed : 7/9/2021 3:37:33 AM by TW  
SCREEN METHOD  
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\*\*\* End of Report \*\*\*

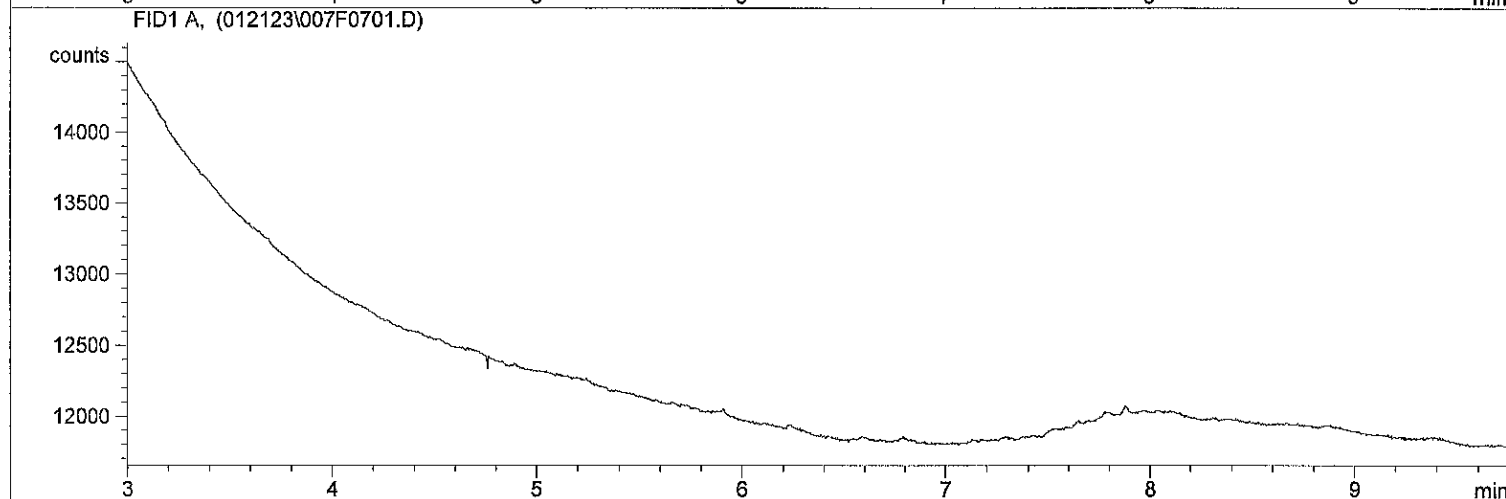
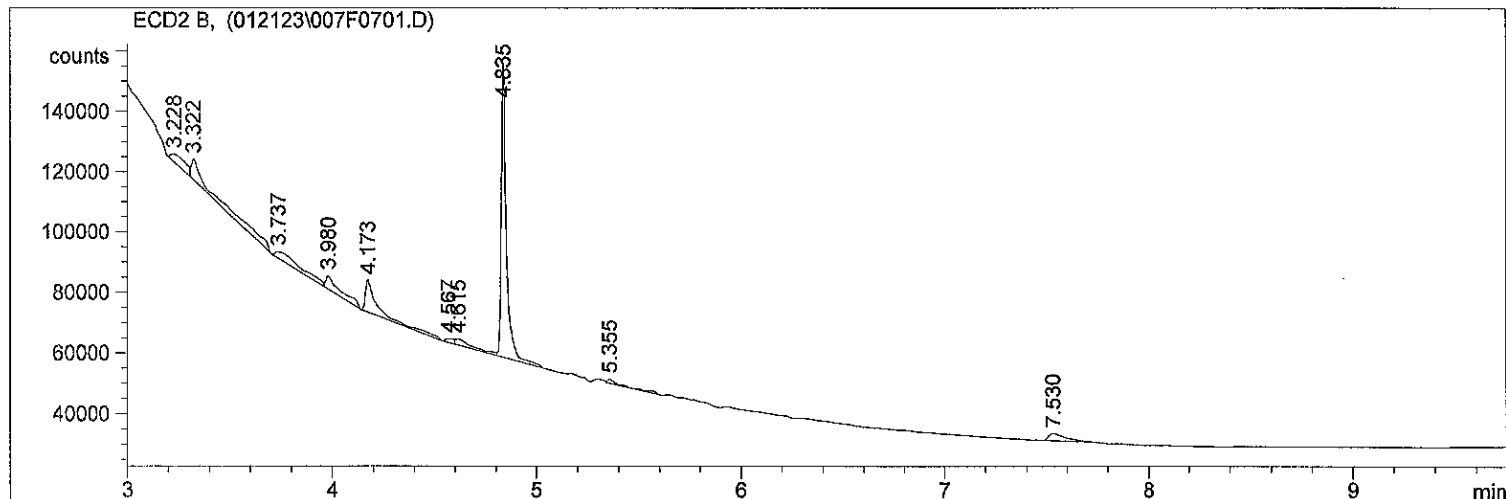
=====  
Injection Date : 1/21/2023 12:49:49 PM      Seq. Line : 6  
Sample Name : 23A0179 03                      Location : Vial 6  
Acq. Operator : YL                              Inj : 1  
   Inj Volume : 1 µl  
Sequence File : C:\HPCHEM\1\SEQUENCE\012123.S  
Method : C:\HPCHEM\1\METHODS\SCREEN.M  
Last changed : 7/9/2021 3:37:33 AM by TW  
SCREEN METHOD  
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\*\*\* End of Report \*\*\*

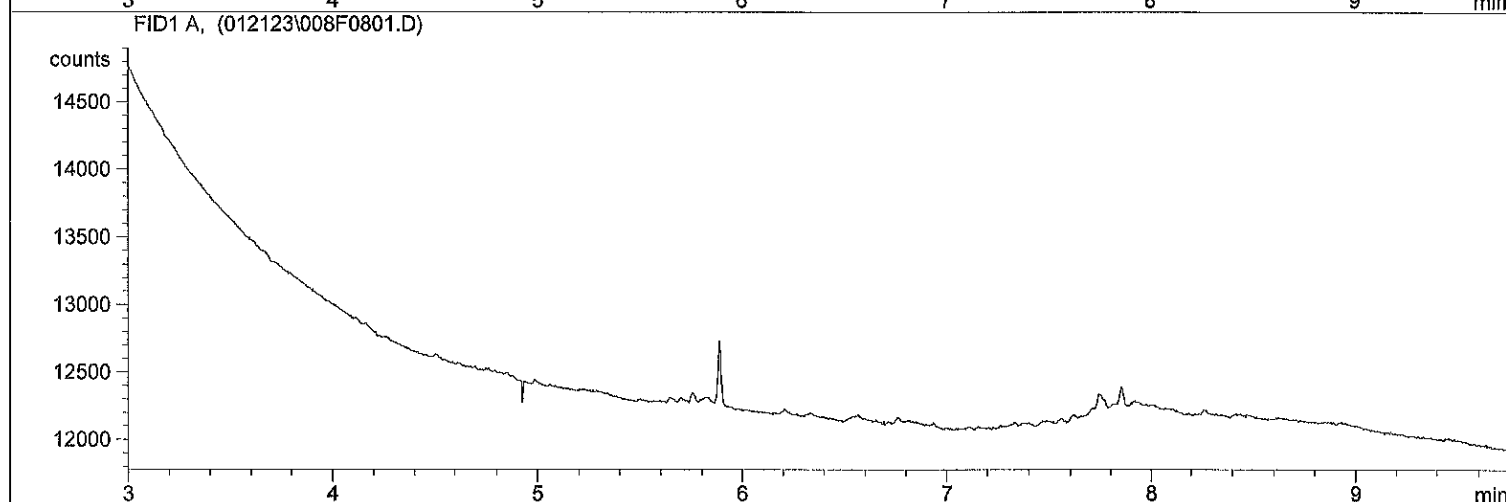
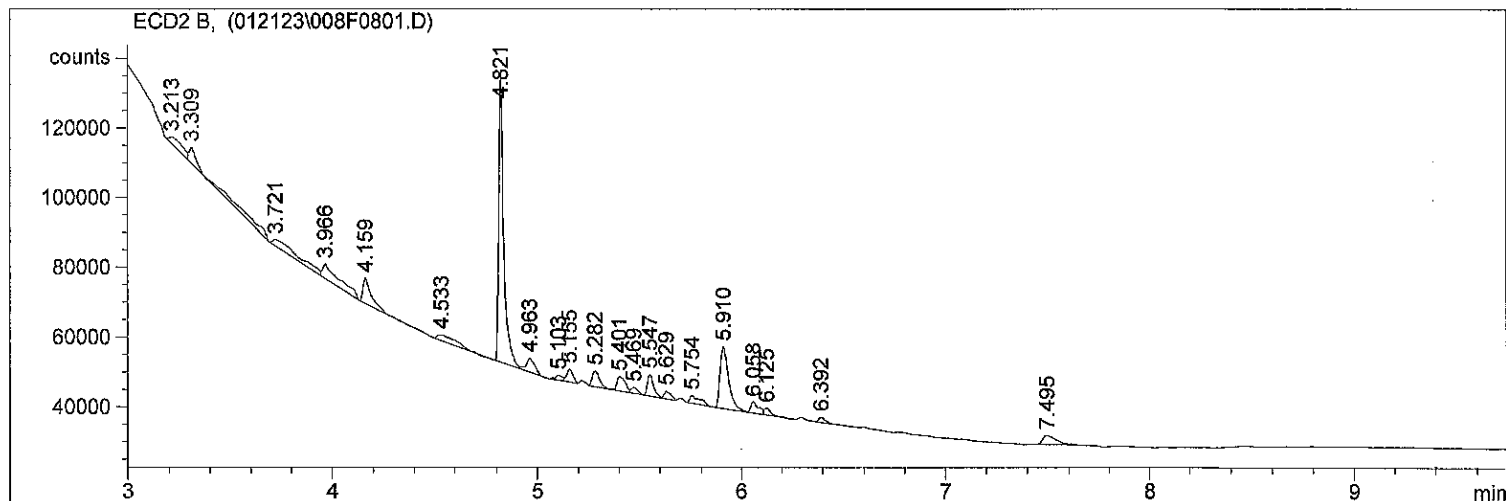


=====  
Injection Date : 1/21/2023 1:03:44 PM                   Seq. Line : 7  
Sample Name : 23A0179 04                                Location : Vial 7  
Acq. Operator : YL   Inj : 1  
  Inj Volume : 1 µl  
Sequence File : C:\HPCHEM\1\SEQUENCE\012123.S  
Method : C:\HPCHEM\1\METHODS\SCREEN.M  
Last changed : 7/9/2021 3:37:33 AM by TW  
SCREEN METHOD  
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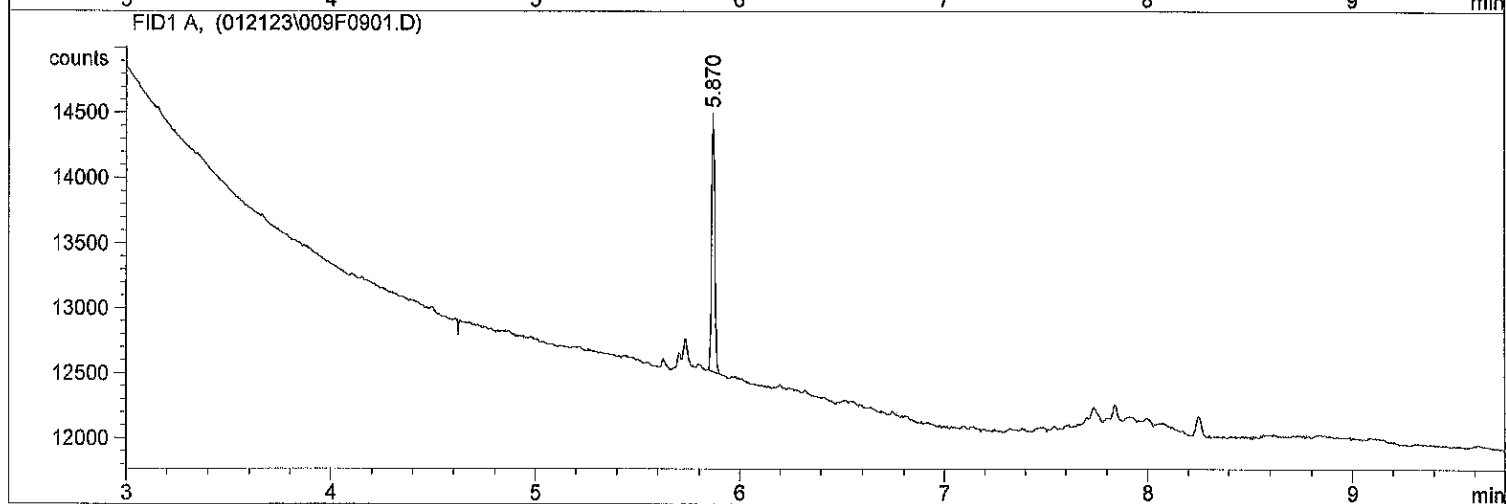
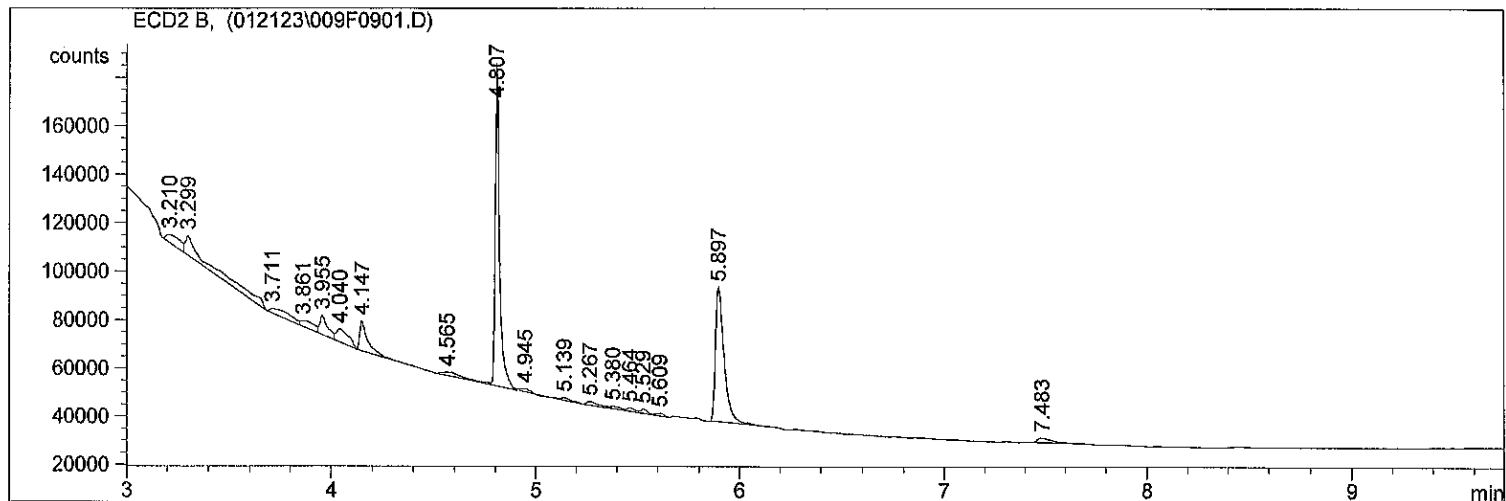
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=====  
Injection Date : 1/21/2023 1:18:13 PM                   Seq. Line : 8  
Sample Name : 23A0179 05                                Location : Vial 8  
Acq. Operator : YL                                        Inj : 1  
  Inj Volume : 1 µl  
Sequence File : C:\HPCHEM\1\SEQUENCE\012123.S  
Method : C:\HPCHEM\1\METHODS\SCREEN.M  
Last changed : 7/9/2021 3:37:33 AM by TW  
SCREEN METHOD  
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\*\*\* End of Report \*\*\*

=====  
Injection Date : 1/21/2023 1:32:08 PM                   Seq. Line : 9  
Sample Name : 23A0179 06                                    Location : Vial 9  
Acq. Operator : YL    Inj : 1  
  Inj Volume : 1 µl  
  
Sequence File : C:\HPCHEM\1\SEQUENCE\012123.S  
Method : C:\HPCHEM\1\METHODS\SCREEN.M  
Last changed : 7/9/2021 3:37:33 AM by TW  
SCREEN METHOD  
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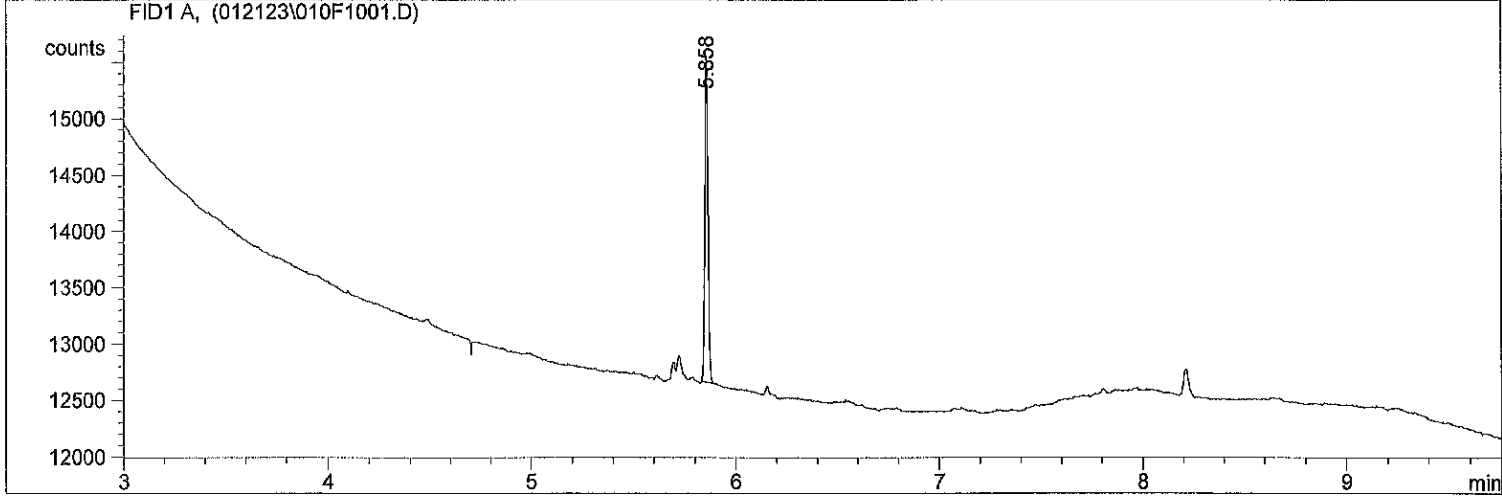
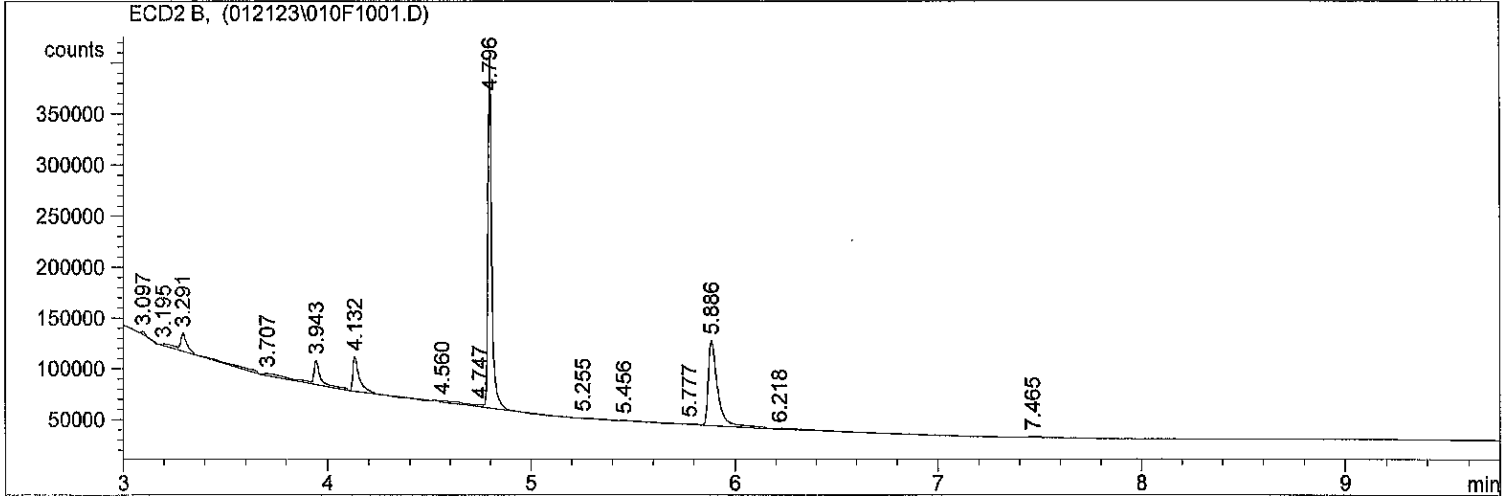
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=====
Injection Date : 1/21/2023 1:46:39 PM      Seq. Line : 10
Sample Name    : 23A0179 07                Location  : Vial 10
Acq. Operator  : YL                        Inj      : 1
                                           Inj Volume : 1 µl

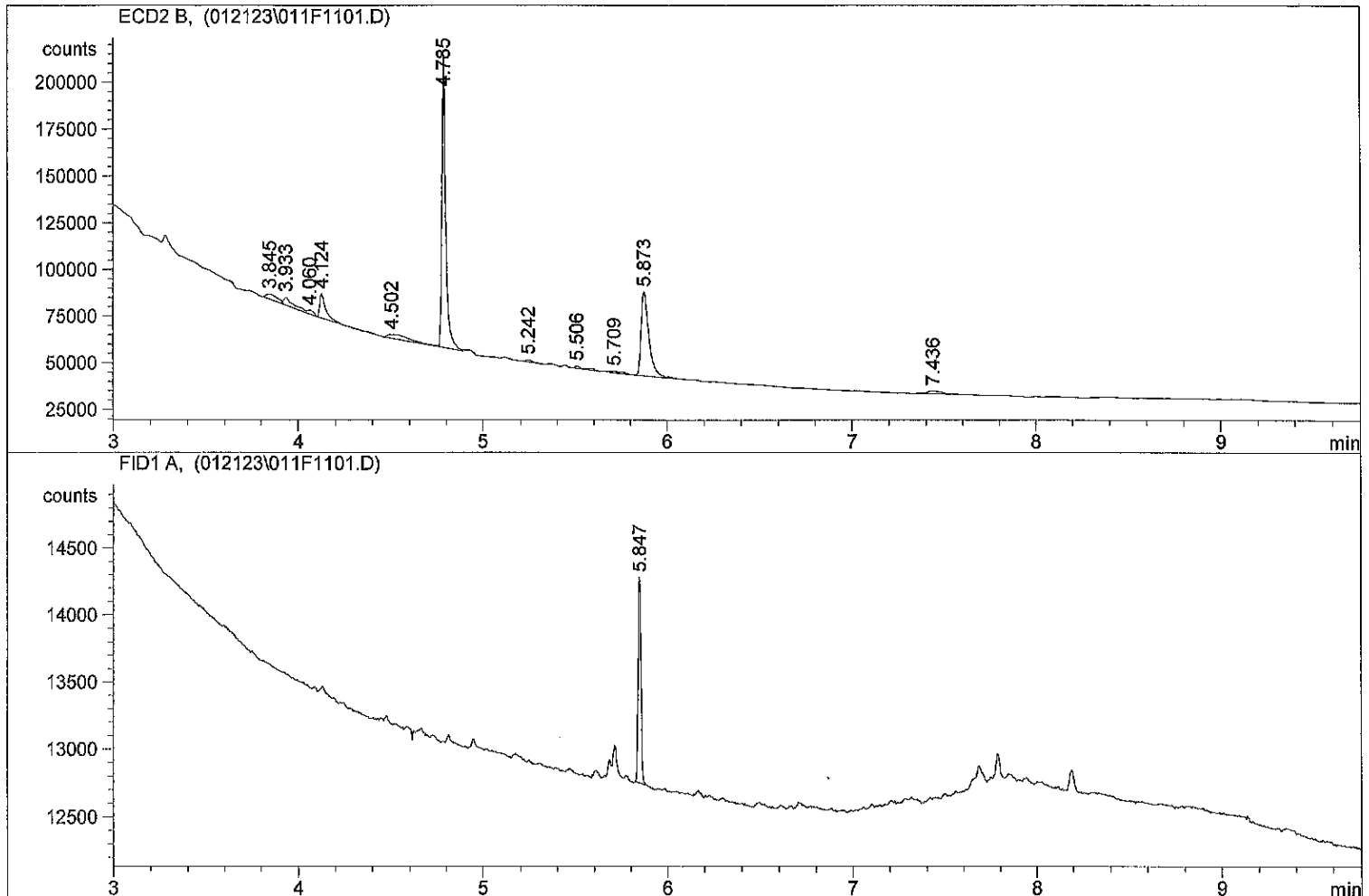
Sequence File  : C:\HPCHEM\1\SEQUENCE\012123.S
Method         : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed   : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====

```



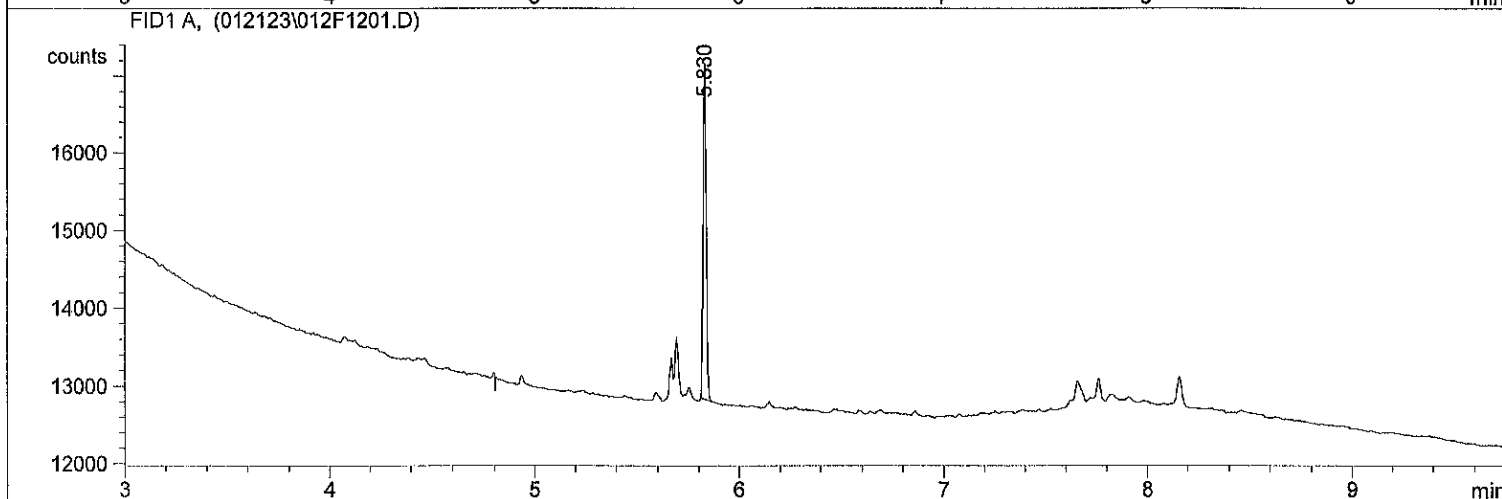
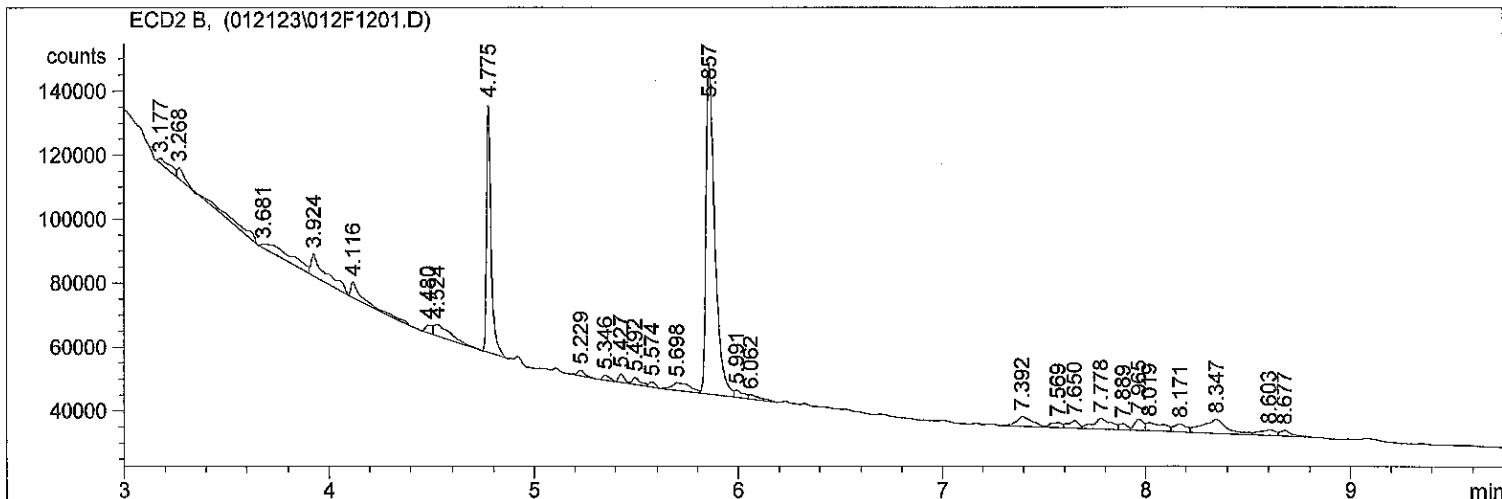
\*\*\* End of Report \*\*\*

=====  
Injection Date : 1/21/2023 2:00:33 PM      Seq. Line : 11  
Sample Name : 23A0179 08                      Location : Vial 11  
Acq. Operator : YL                              Inj : 1  
   Inj Volume : 1 µl  
  
Sequence File : C:\HPCHEM\1\SEQUENCE\012123.S  
Method : C:\HPCHEM\1\METHODS\SCREEN.M  
Last changed : 7/9/2021 3:37:33 AM by TW  
SCREEN METHOD  
=====



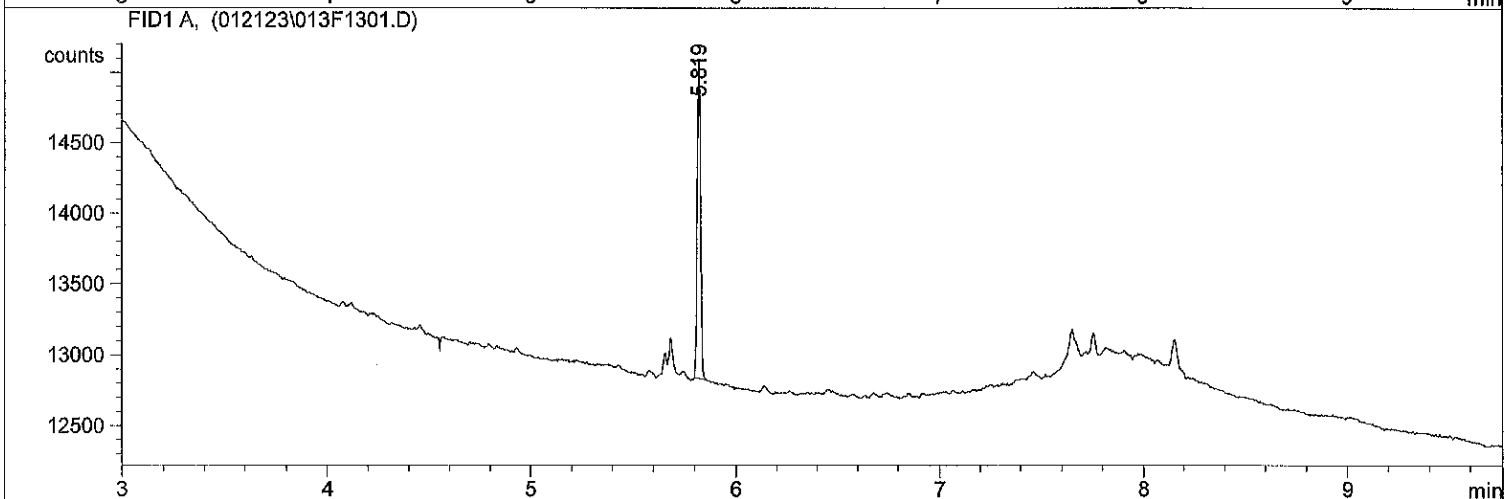
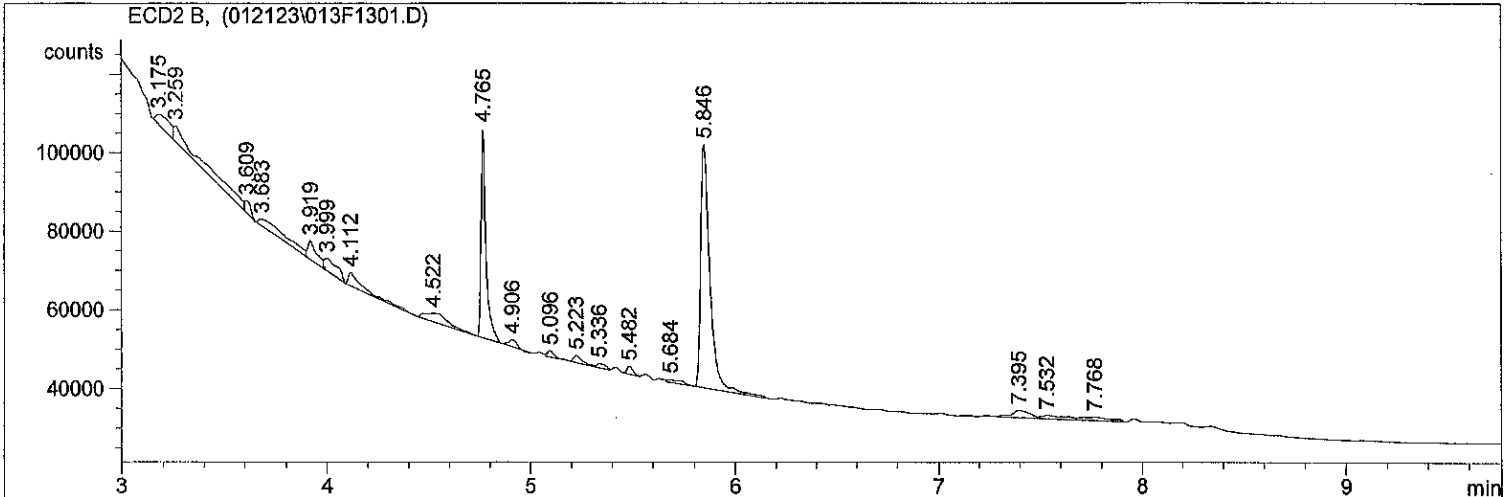
\*\*\* End of Report \*\*\*

=====  
Injection Date : 1/21/2023 2:15:06 PM                   Seq. Line : 12  
Sample Name    : 23A0179 09                                Location : Vial 12  
Acq. Operator  : YL   Inj : 1  
  Inj Volume : 1 µl  
Sequence File  : C:\HPCHEM\1\SEQUENCE\012123.S  
Method         : C:\HPCHEM\1\METHODS\SCREEN.M  
Last changed  : 7/9/2021 3:37:33 AM by TW  
SCREEN METHOD  
=====



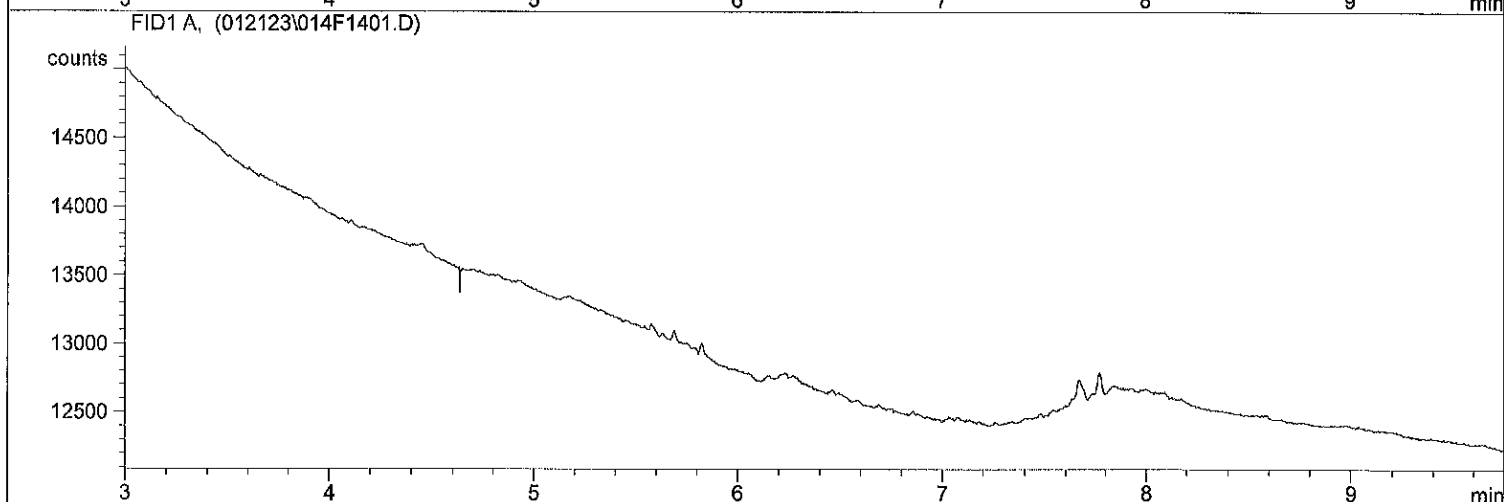
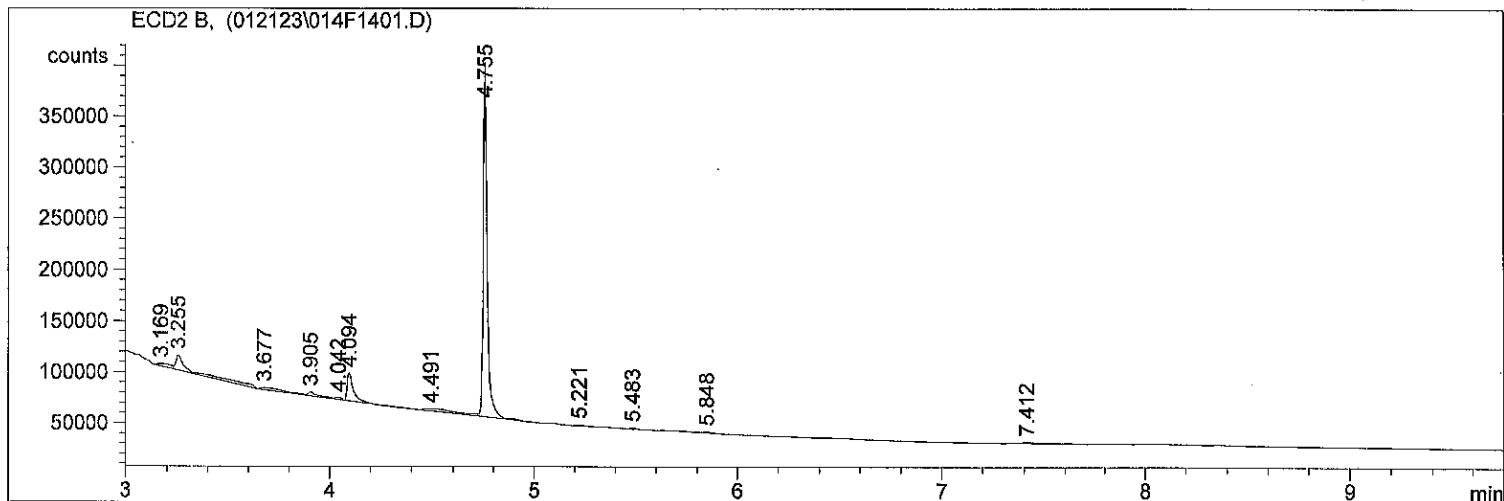
\*\*\* End of Report \*\*\*

=====  
Injection Date : 1/21/2023 2:29:00 PM                   Seq. Line : 13  
Sample Name    : 23A0179 10                                Location : Vial 13  
Acq. Operator  : YL   Inj : 1  
  Inj Volume : 1 µl  
  
Sequence File  : C:\HPCHEM\1\SEQUENCE\012123.S  
Method         : C:\HPCHEM\1\METHODS\SCREEN.M  
Last changed  : 7/9/2021 3:37:33 AM by TW  
SCREEN METHOD  
=====



\*\*\* End of Report \*\*\*

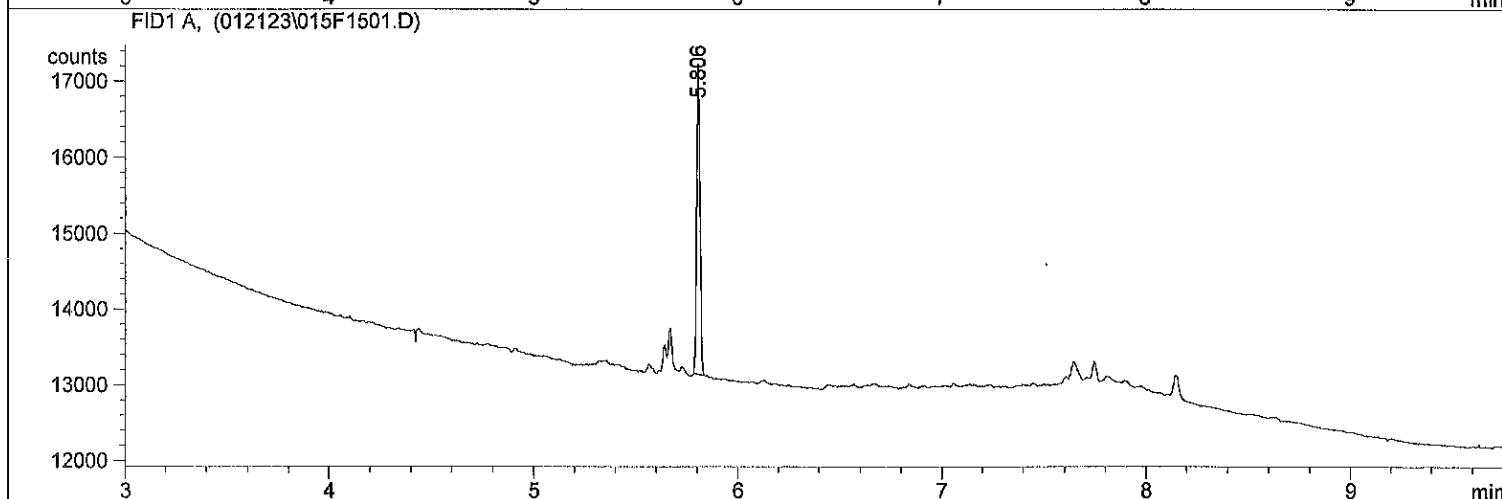
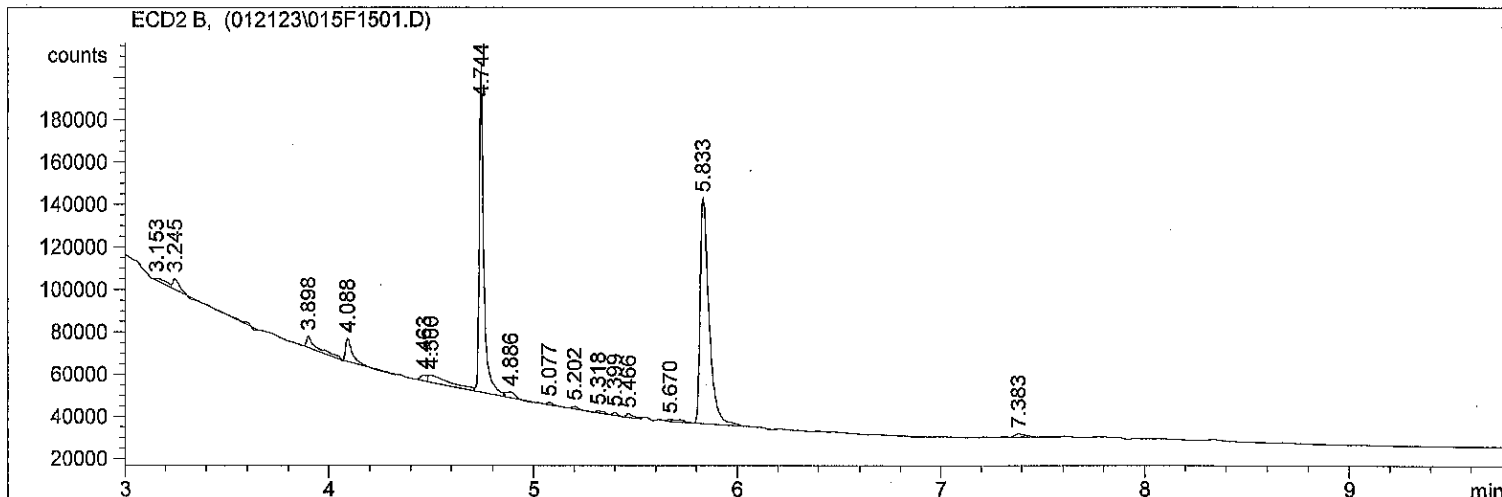
=====  
Injection Date : 1/21/2023 2:43:29 PM                   Seq. Line : 14  
Sample Name    : 23A0179 11                                Location : Vial 14  
Acq. Operator  : YL   Inj : 1  
  Inj Volume : 1 µl  
Sequence File  : C:\HPCHEM\1\SEQUENCE\012123.S  
Method         : C:\HPCHEM\1\METHODS\SCREEN.M  
Last changed   : 7/9/2021 3:37:33 AM by TW  
SCREEN METHOD  
=====



\*\*\* End of Report \*\*\*



=====  
Injection Date : 1/21/2023 2:57:26 PM                   Seq. Line : 15  
Sample Name    : 23A0179 12                                Location : Vial 15  
Acq. Operator  : YL   Inj : 1  
  Inj Volume : 1 µl  
  
Sequence File  : C:\HPCHEM\1\SEQUENCE\012123.S  
Method         : C:\HPCHEM\1\METHODS\SCREEN.M  
Last changed   : 7/9/2021 3:37:33 AM by TW  
SCREEN METHOD  
=====



\*\*\* End of Report \*\*\*





Batch: BLE0737 RE

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

Matrix: Solid Date Prepared: 05/26/23 Balance ID: B146462614 Set Up By: CTO 5/25/23

From BLA0558 on 5/25/2023 by CTO

**WO Comments**  
23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

The following standards may be missing from this batch!

| Designator | Description |
|------------|-------------|
| QLS 5      | QLS Spike   |

Analysis: 8082A PCB Solid 4

| Lab Number & Container | % Solids | Initial (g)            |        | (REQ)          | (REQ)                  | (REQ)                | Final Effective Vol (mL) | Vol (mL) to Lab | Extraction Comments                |
|------------------------|----------|------------------------|--------|----------------|------------------------|----------------------|--------------------------|-----------------|------------------------------------|
|                        |          | Target Dry: 12.5 (Wet) | Actual | Acid C/U (5mL) | Sulfur C/U (5mL) 1 2 3 | Silica Gel C/U (2:5) |                          |                 |                                    |
| 23A0179-10RE2 A        | 49.3     | (25.37)                | 25.37  | 5mL            | 5mL                    | 2mL                  | 2.5                      | 1.0             | From BLA0558 by CTO on 25-May-2023 |

Batch QC

| Lab Number   | % Solids | Initial (g)            |        | (REQ)          | (REQ)                  | (REQ)                | Final Effective Vol (mL) | Vol (mL) to Lab | Extraction Comments |
|--------------|----------|------------------------|--------|----------------|------------------------|----------------------|--------------------------|-----------------|---------------------|
|              |          | Target Dry: 12.5 (Wet) | Actual | Acid C/U (5mL) | Sulfur C/U (5mL) 1 2 3 | Silica Gel C/U (2:5) |                          |                 |                     |
| BLE0737-BLK1 | 100.0    | (12.50)                | 12.50  | 5mL            | 5mL                    | 2mL                  | 2.5                      | 1.0             | (10g Actual Wt.)    |
| BLE0737-BS1  | 100.0    | (12.50)                | 12.50  | 5mL            | 5mL                    | 2mL                  | 2.5                      | 1.0             | (10g Actual Wt.)    |
| BLE0737-BSD1 | 100.0    | (12.50)                | 12.50  | 5mL            | 5mL                    | 2mL                  | 2.5                      | 1.0             | (10g Actual Wt.)    |
| BLE0737-MS1  | 49.3     | (25.37)                | 25.37  | 5mL            | 5mL                    | 2mL                  | 2.5                      | 1.0             | Use 23A0179-10RE2   |
| BLE0737-MSD1 | 49.3     | (25.37)                | 25.37  | 5mL            | 5mL                    | 2mL                  | 2.5                      | 1.0             | Use 23A0179-10RE2   |
| BLE0737-SRM1 | 100.0    | (12.50)                | 12.50  | 5mL            | 5mL                    | 2mL                  | 2.5                      | 1.0             | Use K005527 K003528 |

+1g DI WATER

Client ID verified By: [Signature] Date: 05/26/23 Preparation Reviewed By: Mrs Date: 5/31/23 Extraction Date/and Time: 05/26/23 10:46



Batch: BLE0737

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

**WO Comments**  
23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM 1009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

| Prep Steps   | Reagents Used   | Surrogates & Spike Standards Used  |         |                       |        |         |         |           |           |      |   |   |        |                              |  |       |           |      |   |   |         |                      |  |
|--|---|--|---------|-----------------------|--------|---------|---------|-----------|-----------|------|---|---|--------|------------------------------|--|-------|-----------|------|---|---|---------|----------------------|--|
| <b>Microwave</b><br>1 2 3<br>Analyst/Date: 5/26/23   | <b>Station/Reagent</b> <b>Standard ID</b><br>Microwave<br>Analyst: 5/26/23      Date: 5/26/23<br>Neutral Glass Wool      L002659<br>1:1 Hexane/Acetone      L004534<br>Hexane      L003500<br>Anhydrous Sodium Sulfate      L005357 | <table border="1"> <thead> <tr> <th>Type</th> <th>Vial ID / Standard ID</th> <th>Vol uL</th> <th>Analyst</th> <th>Witness</th> </tr> </thead> <tbody> <tr> <td>Surrogate</td> <td>N L000773</td> <td>50µL</td> <td rowspan="2">G</td> <td rowspan="2">J</td> </tr> <tr> <td>2µg/mL</td> <td>Exp L003064<br/>Date: 7/21/23</td> <td></td> </tr> <tr> <td>Spike</td> <td>1 L001587</td> <td>63µL</td> <td rowspan="2">G</td> <td rowspan="2">J</td> </tr> <tr> <td>20µg/mL</td> <td>Exp<br/>Date: 6/13/23</td> <td></td> </tr> </tbody> </table>   | Type    | Vial ID / Standard ID | Vol uL | Analyst | Witness | Surrogate | N L000773 | 50µL | G | J | 2µg/mL | Exp L003064<br>Date: 7/21/23 |  | Spike | 1 L001587 | 63µL | G | J | 20µg/mL | Exp<br>Date: 6/13/23 |  |
| Type   | Vial ID / Standard ID   | Vol uL   | Analyst | Witness               |        |         |         |           |           |      |   |   |        |                              |  |       |           |      |   |   |         |                      |  |
| Surrogate  | N L000773   | 50µL   | G       | J                     |        |         |         |           |           |      |   |   |        |                              |  |       |           |      |   |   |         |                      |  |
| 2µg/mL   | Exp L003064<br>Date: 7/21/23  |  |         |                       |        |         |         |           |           |      |   |   |        |                              |  |       |           |      |   |   |         |                      |  |
| Spike  | 1 L001587   | 63µL   | G       | J                     |        |         |         |           |           |      |   |   |        |                              |  |       |           |      |   |   |         |                      |  |
| 20µg/mL  | Exp<br>Date: 6/13/23  |  |         |                       |        |         |         |           |           |      |   |   |        |                              |  |       |           |      |   |   |         |                      |  |
| <b>KD</b><br>100°C<br>Hexane Exchange<br>(2 X 20 mL)<br>1 2 3 4 5 6<br>Analyst/Date: 5/30/23 | <b>KD</b><br>Analyst: NR      Date: 5/30/23<br>Anhydrous Sodium Sulfate   | <p><b>MANUALLY ENTER EXPIRATION DATES!</b></p> <p>(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.</p> <p>If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator in the Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).</p> |         |                       |        |         |         |           |           |      |   |   |        |                              |  |       |           |      |   |   |         |                      |  |
| <b>TurboVap</b><br>Pre Cleanups<br>1 2 3 4 5<br>Analyst/Date: 5/30/23                        | <b>Vialing</b><br>Analyst: NR      Date: 5/31/23<br>Hexane      L003500<br>Concentrated Sulfuric Acid      L005399  |  |         |                       |        |         |         |           |           |      |   |   |        |                              |  |       |           |      |   |   |         |                      |  |
| <b>TurboVap</b><br>Post Cleanups<br>1 2 3 4 5<br>Analyst/Date: 5/30/23                       | Silica Gel (SPE) Darts      L003133<br>Sodium Sulfite      L002437<br>Tetrabutylammonium hydrogensulfate (TBAS)      L005773  |  |         |                       |        |         |         |           |           |      |   |   |        |                              |  |       |           |      |   |   |         |                      |  |
| <b>Vialing</b><br>Analyst/Date: 5/30/23  |   |  |         |                       |        |         |         |           |           |      |   |   |        |                              |  |       |           |      |   |   |         |                      |  |



Batch: BLE0737

Prepared using: EPA 3546 (Microwave)  
8082A PCB Solid 4 in Solid (Version:7 Aroclors)

**WO Comments**  
23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM 1009127 PCB RM J006840-43, 7935-36, K011477-79, MS/MSD </E>  
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

| Prep Instructions  |  |
|--|--|
| <p><b>SPECIAL INSTRUCTIONS:</b></p> <ol style="list-style-type: none"> <li>1. Weigh soil/sed into beakers-lightly dry with sodium sulfate.</li> <li>2. Transfer to microwave vessel(s). Note: (do not fill vessels more than 2/3rd full. Some samples may require two vessels).</li> <li>3. Add 1:1 Hexane/Acetone until the solvent layer is 3 inches above the soil layer after homogenization.</li> <li>4. Add surr/spike.</li> <li>5. Microwave on appropriate power setting determined by # of samples.</li> <li>6. After microwave-Re-homogenize while hot then cool vessels in R-05 15 minutes. Re-homogenize while cool.</li> <li>7. Decant 1:1 Hex/Ace into Erlenmeyer flask with sodium sulfate in bottom and funnel with neutral glasswool plug.</li> <li>8. Re-homogenize and rinse with 1:1 Hexane/Acetone.</li> <li>9. Let cool and decant solvent then empty the soil into the funnel and rinse with Hexane.</li> <li>10. KD on 100° bath.</li> <li>11. Exchange (2 X with 20mL) Hexane.</li> <li>12. TurboVap.</li> <li>13. Clean-ups.</li> <li>14. TurboVap.</li> <li>15. Vial with Hexane.</li> </ol> <p>A. Need Total Solids Y / N</p> <p>B. Archive/Freeze Y / N</p> |  |





Extraction Parameter: PCB Extraction Batch BLE0739 RE

Total Solids Batch: RE-EXT Work Order(s): 23A0179

| Screens: Soil/Sediment/Solid/Other:   | Analyst/Date |
|---|--------------|
| <input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)=               |              |
| <input type="checkbox"/> Standing Water Decanted (Not shared)=                                |              |
| <input type="checkbox"/> Standing Water Homogenized (Shared samples)=                         |              |
| <input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=                               |              |
| <input type="checkbox"/> Rocks (%+size)?  |              |
| <input type="checkbox"/> Organics (Leaves/sticks/grass)=                                      |              |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors=                                     |              |
| <input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=                   |              |
| <input type="checkbox"/> Previously Frozen =  |              |
| <input type="checkbox"/> Other (Details)=   |              |
|   |              |
| <b>Aqueous:</b>   |              |
| <input checked="" type="checkbox"/> No Anomalies  |              |
| <input type="checkbox"/> Turbid/Color=  |              |
| <input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)                   |              |
| <input type="checkbox"/> Emulsions (%)=   |              |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors=                                     |              |
| <input type="checkbox"/> Other (Details)=   |              |
| <input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=                          |              |
| <input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions). |              |
|   |              |
|   |              |
| <input type="checkbox"/> Share Samples Y / N  |              |
| <input type="checkbox"/> Multiple Jars Y / N  |              |
| <input type="checkbox"/> Sample Pre-Screens indicate analyte activity=                        |              |
| <input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=                  |              |



## CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLB0027

Cleanup Type: Sulfur

Cleanup Method: EPA 3660B Sulfur Cleanup - uL

Analysis: EPA 8082A

| SAMPLE NAME      | LAB SAMPLE ID | LAB FILE ID    | DATE PREPARED | OBSERVATIONS |
|------------------|---------------|----------------|---------------|--------------|
| LDW23-SS1266     | 23A0179-03    | 02042321ECD7.D | 02/03/2023    |              |
| LDW23-SS1039     | 23A0179-11    | 02062315ECD7.D | 02/03/2023    |              |
| LDW23-SS1112     | 23A0179-10    | 02062309ECD7.D | 02/03/2023    |              |
| LDW23-SS1171     | 23A0179-09    | 02062310ECD7.D | 02/03/2023    |              |
| LDW23-SS1178     | 23A0179-08    | 02042326ECD7.D | 02/03/2023    |              |
| LDW23-SS1200     | 23A0179-07    | 02042325ECD7.D | 02/03/2023    |              |
| LDW23-SS1213     | 23A0179-06    | 02042324ECD7.D | 02/03/2023    |              |
| LDW23-SS1007     | 23A0179-12    | 02062316ECD7.D | 02/03/2023    |              |
| LDW23-SS1248     | 23A0179-04    | 02042322ECD7.D | 02/03/2023    |              |
| Reference        | BLA0558-SRM1  | 02042318ECD7.D | 02/03/2023    |              |
| LDW23-SS1271     | 23A0179-02    | 02042320ECD7.D | 02/03/2023    |              |
| LDW23-SS1277     | 23A0179-01    | 02042319ECD7.D | 02/03/2023    |              |
| Blank            | BLA0558-BLK1  | 02042315ECD7.D | 02/03/2023    |              |
| LCS              | BLA0558-BS1   | 02042316ECD7.D | 02/03/2023    |              |
| LCS Dup          | BLA0558-BSD1  | 02042317ECD7.D | 02/03/2023    |              |
| Matrix Spike     | BLA0558-MS1   | 02042327ECD7.D | 02/03/2023    |              |
| Matrix Spike Dup | BLA0558-MSD1  | 02042328ECD7.D | 02/03/2023    |              |
| LDW23-SS1239     | 23A0179-05    | 02042323ECD7.D | 02/03/2023    |              |



**CLEANUP BENCH SHEET**

CLB0027

Printed: 2/3/2023 8:29:06PM

Matrix: Solid Cleanup using: Organics - EPA 360B Sulfur Cleanup - uL

| Lab Number   | Sample Container | Sample Name      | Extract Container | Initial (uL) | Final (uL) | Analysis          | Clean Up Date | Cleaned By | Cleanup Comments |
|--------------|------------------|------------------|-------------------|--------------|------------|-------------------|---------------|------------|------------------|
| 23A0179-01   | A                | LDW23-SS1277     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | NRB        |                  |
| 23A0179-02   | A                | LDW23-SS1271     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | NRB        |                  |
| 23A0179-03   | A                | LDW23-SS1266     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | NRB        |                  |
| 23A0179-04   | A                | LDW23-SS1248     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | NRB        |                  |
| 23A0179-05   | A                | LDW23-SS1239     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | NRB        |                  |
| 23A0179-06   | A                | LDW23-SS1213     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | NRB        |                  |
| 23A0179-07   | A                | LDW23-SS1200     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | NRB        |                  |
| 23A0179-08   | A                | LDW23-SS1178     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | NRB        |                  |
| 23A0179-09   | A                | LDW23-SS1171     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | NRB        |                  |
| 23A0179-10   | A                | LDW23-SS1112     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | NRB        |                  |
| 23A0179-11   | A                | LDW23-SS1039     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | NRB        |                  |
| 23A0179-12   | A                | LDW23-SS1007     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | NRB        |                  |
| BLA0558-BLK1 | -                | Blank            | -                 | 2.5          | 2.5        | -                 | 2/3/2023      | NRB        |                  |
| BLA0558-BS1  | -                | LCS              | -                 | 2.5          | 2.5        | -                 | 2/3/2023      | NRB        |                  |
| BLA0558-BSD1 | -                | LCS Dup          | -                 | 2.5          | 2.5        | -                 | 2/3/2023      | NRB        |                  |
| BLA0558-MS1  | -                | Matrix Spike     | -                 | 2.5          | 2.5        | -                 | 2/3/2023      | NRB        |                  |
| BLA0558-MSD1 | -                | Matrix Spike Dup | -                 | 2.5          | 2.5        | -                 | 2/3/2023      | NRB        |                  |
| BLA0558-SRM1 | -                | Reference        | -                 | 2.5          | 2.5        | -                 | 2/3/2023      | NRB        |                  |





## CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLB0028

Cleanup Type: Sulfuric Acid

Cleanup Method: EPA 3665 Sulfuric Acid Cleanup - uL

Analysis: EPA 8082A

| SAMPLE NAME      | LAB SAMPLE ID | LAB FILE ID    | DATE PREPARED | OBSERVATIONS |
|------------------|---------------|----------------|---------------|--------------|
| LDW23-SS1266     | 23A0179-03    | 02042321ECD7.D | 02/02/2023    |              |
| LDW23-SS1039     | 23A0179-11    | 02062315ECD7.D | 02/02/2023    |              |
| LDW23-SS1112     | 23A0179-10    | 02062309ECD7.D | 02/02/2023    |              |
| LDW23-SS1171     | 23A0179-09    | 02062310ECD7.D | 02/02/2023    |              |
| LDW23-SS1178     | 23A0179-08    | 02042326ECD7.D | 02/02/2023    |              |
| LDW23-SS1200     | 23A0179-07    | 02042325ECD7.D | 02/02/2023    |              |
| LDW23-SS1213     | 23A0179-06    | 02042324ECD7.D | 02/02/2023    |              |
| LDW23-SS1007     | 23A0179-12    | 02062316ECD7.D | 02/02/2023    |              |
| LDW23-SS1248     | 23A0179-04    | 02042322ECD7.D | 02/02/2023    |              |
| Reference        | BLA0558-SRM1  | 02042318ECD7.D | 02/02/2023    |              |
| LDW23-SS1271     | 23A0179-02    | 02042320ECD7.D | 02/02/2023    |              |
| LDW23-SS1277     | 23A0179-01    | 02042319ECD7.D | 02/02/2023    |              |
| Blank            | BLA0558-BLK1  | 02042315ECD7.D | 02/02/2023    |              |
| LCS              | BLA0558-BS1   | 02042316ECD7.D | 02/02/2023    |              |
| LCS Dup          | BLA0558-BSD1  | 02042317ECD7.D | 02/02/2023    |              |
| Matrix Spike     | BLA0558-MS1   | 02042327ECD7.D | 02/02/2023    |              |
| Matrix Spike Dup | BLA0558-MSD1  | 02042328ECD7.D | 02/02/2023    |              |
| LDW23-SS1239     | 23A0179-05    | 02042323ECD7.D | 02/02/2023    |              |



**CLEANUP BENCH SHEET**

CLB0028

Printed: 2/3/2023 8:29:56PM

Matrix: Solid Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL

| Lab Number   | Sample Container | Sample Name      | Extract Container | Initial (uL) | Final (uL) | Analysis          | Clean Up Date | Cleaned By | Cleanup Comments |
|--------------|------------------|------------------|-------------------|--------------|------------|-------------------|---------------|------------|------------------|
| 23A0179-01   | A                | LDW23-SS1277     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/2/2023      | TWC        |                  |
| 23A0179-02   | A                | LDW23-SS1271     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/2/2023      | TWC        |                  |
| 23A0179-03   | A                | LDW23-SS1266     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/2/2023      | TWC        |                  |
| 23A0179-04   | A                | LDW23-SS1248     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/2/2023      | TWC        |                  |
| 23A0179-05   | A                | LDW23-SS1239     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/2/2023      | TWC        |                  |
| 23A0179-06   | A                | LDW23-SS1213     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/2/2023      | TWC        |                  |
| 23A0179-07   | A                | LDW23-SS1200     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/2/2023      | TWC        |                  |
| 23A0179-08   | A                | LDW23-SS1178     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/2/2023      | TWC        |                  |
| 23A0179-09   | A                | LDW23-SS1171     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/2/2023      | TWC        |                  |
| 23A0179-10   | A                | LDW23-SS1112     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/2/2023      | TWC        |                  |
| 23A0179-11   | A                | LDW23-SS1039     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/2/2023      | TWC        |                  |
| 23A0179-12   | A                | LDW23-SS1007     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/2/2023      | TWC        |                  |
| BLA0558-BLK1 | -                | Blank            | -                 | 2.5          | 2.5        | -                 | 2/2/2023      | TWC        |                  |
| BLA0558-BS1  | -                | LCS              | -                 | 2.5          | 2.5        | -                 | 2/2/2023      | TWC        |                  |
| BLA0558-BSD1 | -                | LCS Dup          | -                 | 2.5          | 2.5        | -                 | 2/2/2023      | TWC        |                  |
| BLA0558-MS1  | -                | Matrix Spike     | -                 | 2.5          | 2.5        | -                 | 2/2/2023      | TWC        |                  |
| BLA0558-MSD1 | -                | Matrix Spike Dup | -                 | 2.5          | 2.5        | -                 | 2/2/2023      | TWC        |                  |
| BLA0558-SRM1 | -                | Reference        | -                 | 2.5          | 2.5        | -                 | 2/2/2023      | TWC        |                  |



## CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLB0029

Cleanup Type: Silica Gel

Cleanup Method: EPA 3630C Silica Gel Cleanup - uL

Analysis: EPA 8082A

| SAMPLE NAME      | LAB SAMPLE ID | LAB FILE ID    | DATE PREPARED | OBSERVATIONS |
|------------------|---------------|----------------|---------------|--------------|
| LDW23-SS1266     | 23A0179-03    | 02042321ECD7.D | 02/03/2023    |              |
| LDW23-SS1039     | 23A0179-11    | 02062315ECD7.D | 02/03/2023    |              |
| LDW23-SS1112     | 23A0179-10    | 02062309ECD7.D | 02/03/2023    |              |
| LDW23-SS1171     | 23A0179-09    | 02062310ECD7.D | 02/03/2023    |              |
| LDW23-SS1178     | 23A0179-08    | 02042326ECD7.D | 02/03/2023    |              |
| LDW23-SS1200     | 23A0179-07    | 02042325ECD7.D | 02/03/2023    |              |
| LDW23-SS1213     | 23A0179-06    | 02042324ECD7.D | 02/03/2023    |              |
| LDW23-SS1007     | 23A0179-12    | 02062316ECD7.D | 02/03/2023    |              |
| LDW23-SS1248     | 23A0179-04    | 02042322ECD7.D | 02/03/2023    |              |
| Reference        | BLA0558-SRM1  | 02042318ECD7.D | 02/03/2023    |              |
| LDW23-SS1271     | 23A0179-02    | 02042320ECD7.D | 02/03/2023    |              |
| LDW23-SS1277     | 23A0179-01    | 02042319ECD7.D | 02/03/2023    |              |
| Blank            | BLA0558-BLK1  | 02042315ECD7.D | 02/03/2023    |              |
| LCS              | BLA0558-BS1   | 02042316ECD7.D | 02/03/2023    |              |
| LCS Dup          | BLA0558-BSD1  | 02042317ECD7.D | 02/03/2023    |              |
| Matrix Spike     | BLA0558-MS1   | 02042327ECD7.D | 02/03/2023    |              |
| Matrix Spike Dup | BLA0558-MSD1  | 02042328ECD7.D | 02/03/2023    |              |
| LDW23-SS1239     | 23A0179-05    | 02042323ECD7.D | 02/03/2023    |              |



**CLEANUP BENCH SHEET**

CLB0029

Printed: 2/3/2023 8:30:39PM

Matrix: Solid Cleanup using: Organics - EPA 3630C Silica Gel Cleanup - uL

| Lab Number   | Sample Container | Sample Name      | Extract Container | Initial (uL) | Final (uL) | Analysis          | Clean Up Date | Cleaned By | Cleanup Comments |
|--------------|------------------|------------------|-------------------|--------------|------------|-------------------|---------------|------------|------------------|
| 23A0179-01   | A                | LDW23-SS1277     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | TWC        |                  |
| 23A0179-02   | A                | LDW23-SS1271     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | TWC        |                  |
| 23A0179-03   | A                | LDW23-SS1266     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | TWC        |                  |
| 23A0179-04   | A                | LDW23-SS1248     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | TWC        |                  |
| 23A0179-05   | A                | LDW23-SS1239     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | TWC        |                  |
| 23A0179-06   | A                | LDW23-SS1213     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | TWC        |                  |
| 23A0179-07   | A                | LDW23-SS1200     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | TWC        |                  |
| 23A0179-08   | A                | LDW23-SS1178     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | TWC        |                  |
| 23A0179-09   | A                | LDW23-SS1171     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | TWC        |                  |
| 23A0179-10   | A                | LDW23-SS1112     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | TWC        |                  |
| 23A0179-11   | A                | LDW23-SS1039     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | TWC        |                  |
| 23A0179-12   | A                | LDW23-SS1007     | A 03              | 2.5          | 2.5        | 8082A PCB Solid 4 | 2/3/2023      | TWC        |                  |
| BLA0558-BLK1 | -                | Blank            | -                 | 2.5          | 2.5        | -                 | 2/3/2023      | TWC        |                  |
| BLA0558-BS1  | -                | LCS              | -                 | 2.5          | 2.5        | -                 | 2/3/2023      | TWC        |                  |
| BLA0558-BSD1 | -                | LCS Dup          | -                 | 2.5          | 2.5        | -                 | 2/3/2023      | TWC        |                  |
| BLA0558-MS1  | -                | Matrix Spike     | -                 | 2.5          | 2.5        | -                 | 2/3/2023      | TWC        |                  |
| BLA0558-MSD1 | -                | Matrix Spike Dup | -                 | 2.5          | 2.5        | -                 | 2/3/2023      | TWC        |                  |
| BLA0558-SRM1 | -                | Reference        | -                 | 2.5          | 2.5        | -                 | 2/3/2023      | TWC        |                  |



## CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLE0256

Cleanup Type: Sulfuric Acid

Cleanup Method: EPA 3665 Sulfuric Acid Cleanup - uL

Analysis: EPA 8082A

| SAMPLE NAME      | LAB SAMPLE ID | LAB FILE ID    | DATE PREPARED | OBSERVATIONS |
|------------------|---------------|----------------|---------------|--------------|
| Reference        | BLE0737-SRM1  | 05312314ECD7.D | 05/31/2023    |              |
| Matrix Spike Dup | BLE0737-MSD1  | 05312317ECD7.D | 05/31/2023    |              |
| Matrix Spike     | BLE0737-MS1   | 05312316ECD7.D | 05/31/2023    |              |
| LCS Dup          | BLE0737-BSD1  | 05312313ECD7.D | 05/31/2023    |              |
| LCS              | BLE0737-BS1   | 05312312ECD7.D | 05/31/2023    |              |
| Blank            | BLE0737-BLK1  | 05312311ECD7.D | 05/31/2023    |              |
| LDW23-SS1112     | 23A0179-10RE2 | 05312315ECD7.D | 05/31/2023    |              |



### CLEANUP BENCH SHEET

CLE0256

Matrix: Solid      Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL      Printed: 5/31/2023 10:50:56AM

| Lab Number    | Sample Container | Sample Name      | Extract Container | Initial (uL) | Final (uL) | Analysis          | Clean Up Date | Cleaned By | Cleanup Comments |
|---------------|------------------|------------------|-------------------|--------------|------------|-------------------|---------------|------------|------------------|
| 23A0179-10RE2 | A                | LDW23-SS1112     | A 07              | 2.5          | 2.5        | 8082A PCB Solid 4 | 5/31/2023     | NRB        |                  |
| BLE0737-BLK1  | -                | Blank            | -                 | 2.5          | 2.5        | -                 | 5/31/2023     | NRB        |                  |
| BLE0737-BS1   | -                | LCS              | -                 | 2.5          | 2.5        | -                 | 5/31/2023     | NRB        |                  |
| BLE0737-BSD1  | -                | LCS Dup          | -                 | 2.5          | 2.5        | -                 | 5/31/2023     | NRB        |                  |
| BLE0737-MS1   | -                | Matrix Spike     | -                 | 2.5          | 2.5        | -                 | 5/31/2023     | NRB        |                  |
| BLE0737-MSD1  | -                | Matrix Spike Dup | -                 | 2.5          | 2.5        | -                 | 5/31/2023     | NRB        |                  |
| BLE0737-SRM1  | -                | Reference        | -                 | 2.5          | 2.5        | -                 | 5/31/2023     | NRB        |                  |



### CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLE0257

Cleanup Type: Sulfur

Cleanup Method: EPA 3660B Sulfur Cleanup - uL

Analysis: EPA 8082A

| SAMPLE NAME      | LAB SAMPLE ID | LAB FILE ID    | DATE PREPARED | OBSERVATIONS |
|------------------|---------------|----------------|---------------|--------------|
| Reference        | BLE0737-SRM1  | 05312314ECD7.D | 05/31/2023    |              |
| Matrix Spike Dup | BLE0737-MSD1  | 05312317ECD7.D | 05/31/2023    |              |
| Matrix Spike     | BLE0737-MS1   | 05312316ECD7.D | 05/31/2023    |              |
| LCS Dup          | BLE0737-BSD1  | 05312313ECD7.D | 05/31/2023    |              |
| LCS              | BLE0737-BS1   | 05312312ECD7.D | 05/31/2023    |              |
| Blank            | BLE0737-BLK1  | 05312311ECD7.D | 05/31/2023    |              |
| LDW23-SS1112     | 23A0179-10RE2 | 05312315ECD7.D | 05/31/2023    |              |



### CLEANUP BENCH SHEET

CLE0257

Matrix: Solid

Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL

Printed: 5/31/2023 10:51:19AM

| Lab Number    | Sample Container | Sample Name      | Extract Container | Initial (uL) | Final (uL) | Analysis          | Clean Up Date | Cleaned By | Cleanup Comments |
|---------------|------------------|------------------|-------------------|--------------|------------|-------------------|---------------|------------|------------------|
| 23A0179-10RE2 | A                | LDW23-SS1112     | A 07              | 2.5          | 2.5        | 8082A PCB Solid 4 | 5/31/2023     | NRB        |                  |
| BLE0737-BLK1  | -                | Blank            | -                 | 2.5          | 2.5        | -                 | 5/31/2023     | NRB        |                  |
| BLE0737-BS1   | -                | LCS              | -                 | 2.5          | 2.5        | -                 | 5/31/2023     | NRB        |                  |
| BLE0737-BSD1  | -                | LCS Dup          | -                 | 2.5          | 2.5        | -                 | 5/31/2023     | NRB        |                  |
| BLE0737-MS1   | -                | Matrix Spike     | -                 | 2.5          | 2.5        | -                 | 5/31/2023     | NRB        |                  |
| BLE0737-MSD1  | -                | Matrix Spike Dup | -                 | 2.5          | 2.5        | -                 | 5/31/2023     | NRB        |                  |
| BLE0737-SRM1  | -                | Reference        | -                 | 2.5          | 2.5        | -                 | 5/31/2023     | NRB        |                  |





## CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLE0258

Cleanup Type: Silica Gel

Cleanup Method: EPA 3630C Silica Gel Cleanup - uL

Analysis: EPA 8082A

| SAMPLE NAME      | LAB SAMPLE ID | LAB FILE ID    | DATE PREPARED | OBSERVATIONS |
|------------------|---------------|----------------|---------------|--------------|
| Reference        | BLE0737-SRM1  | 05312314ECD7.D | 05/31/2023    |              |
| Matrix Spike Dup | BLE0737-MSD1  | 05312317ECD7.D | 05/31/2023    |              |
| Matrix Spike     | BLE0737-MS1   | 05312316ECD7.D | 05/31/2023    |              |
| LCS Dup          | BLE0737-BSD1  | 05312313ECD7.D | 05/31/2023    |              |
| LCS              | BLE0737-BS1   | 05312312ECD7.D | 05/31/2023    |              |
| Blank            | BLE0737-BLK1  | 05312311ECD7.D | 05/31/2023    |              |
| LDW23-SS1112     | 23A0179-10RE2 | 05312315ECD7.D | 05/31/2023    |              |



### CLEANUP BENCH SHEET

CLE0258

Matrix: Solid

Cleanup using: Organics - EPA 3630C Silica Gel Cleanup - uL

Printed: 5/31/2023 10:51:45AM

| Lab Number    | Sample Container | Sample Name      | Extract Container | Initial (uL) | Final (uL) | Analysis          | Clean Up Date | Cleaned By | Cleanup Comments |
|---------------|------------------|------------------|-------------------|--------------|------------|-------------------|---------------|------------|------------------|
| 23A0179-10RE2 | A                | LDW23-SS1112     | A 07              | 2.5          | 2.5        | 8082A PCB Solid 4 | 5/31/2023     | NRB        |                  |
| BLE0737-BLK1  | -                | Blank            | -                 | 2.5          | 2.5        | -                 | 5/31/2023     | NRB        |                  |
| BLE0737-BS1   | -                | LCS              | -                 | 2.5          | 2.5        | -                 | 5/31/2023     | NRB        |                  |
| BLE0737-BSD1  | -                | LCS Dup          | -                 | 2.5          | 2.5        | -                 | 5/31/2023     | NRB        |                  |
| BLE0737-MS1   | -                | Matrix Spike     | -                 | 2.5          | 2.5        | -                 | 5/31/2023     | NRB        |                  |
| BLE0737-MSD1  | -                | Matrix Spike Dup | -                 | 2.5          | 2.5        | -                 | 5/31/2023     | NRB        |                  |
| BLE0737-SRM1  | -                | Reference        | -                 | 2.5          | 2.5        | -                 | 5/31/2023     | NRB        |                  |



**Form I**  
**METHOD BLANK DATA SHEET**  
**EPA 8082A**

|              |
|--------------|
| <b>Blank</b> |
|--------------|

|             |                                  |                |  |
|-------------|----------------------------------|----------------|--|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>                           |
| Client:     | <u>Anchor QEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u>                   |
| Matrix:     | <u>Solid</u>                     | Laboratory ID: | <u>BLA0558-BLK1</u>                      |
| Sampled:    | <u>N/A</u>                       | Prepared:      | <u>01/26/23 11:26</u>                    |
| Solids:     |                                  | Preparation:   | <u>EPA 3546 (Microwave)</u>              |
| Batch:      | <u>BLA0558</u>                   | Sequence:      | <u>SLB0084</u>                           |
| Instrument: | <u>ECD7</u>                      | Column:        | <u>ZB5</u>                               |
|             |                                  | File ID:       | <u>02042315ECD7.D</u>                    |
|             |                                  | Analyzed:      | <u>02/04/23 20:50</u>                    |
|             |                                  | Initial/Final: | <u>12.5 g / 2.5 mL</u>                   |
|             |                                  | Calibration:   | <u>GA00061</u>                           |
|             |                                  | Cleanups:      | <u>Silica Gel, Sulfur, Sulfuric Acid</u> |

| CAS NO.    | COMPOUND     | DILUTION | CONC:<br>(ug/kg wet) | Q | DL  | RL  |
|------------|--------------|----------|----------------------|---|-----|-----|
| 12674-11-2 | Aroclor 1016 | 1        | 4.0                  | U | 1.6 | 4.0 |
| 11104-28-2 | Aroclor 1221 | 1        | 4.0                  | U | 1.6 | 4.0 |
| 11141-16-5 | Aroclor 1232 | 1        | 4.0                  | U | 1.6 | 4.0 |
| 53469-21-9 | Aroclor 1242 | 1        | 4.0                  | U | 1.6 | 4.0 |
| 12672-29-6 | Aroclor 1248 | 1        | 4.0                  | U | 1.6 | 4.0 |
| 11097-69-1 | Aroclor 1254 | 1        | 4.0                  | U | 1.6 | 4.0 |
| 11096-82-5 | Aroclor 1260 | 1        | 4.0                  | U | 0.6 | 4.0 |

| SURROGATES                 | ADDED:<br>(ug/kg wet) | FOUND:<br>(ug/kg wet) | % REC | QC LIMITS | Q |
|----------------------------|-----------------------|-----------------------|-------|-----------|---|
| Decachlorobiphenyl         | 8.0000                | 7.02                  | 87.7  | 40 - 126  |   |
| Tetrachlorometaxylene      | 8.0000                | 7.13                  | 89.2  | 44 - 120  |   |
| Decachlorobiphenyl [2C]    | 8.0000                | 7.14                  | 89.2  | 40 - 126  |   |
| Tetrachlorometaxylene [2C] | 8.0000                | 6.96                  | 87.0  | 44 - 120  |   |

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042315ECD7.D  
Data file 2: /230204.b/230204.b/02042315ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: BLA0558-BLK1  
Client ID:  
Injection Date: 04-FEB-2023 20:50  
Report Date: 02/06/2023 16:43  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.806  | 0.000         | 223710   | 5.683  | -0.001         | 167822   | 35.7       | 34.8        | 2.5 | Tetrachloro-m-xylene |
| 13.889 | 0.000         | 251774   | 14.115 | -0.001         | 262851   | 35.1       | 35.7        | 1.7 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |       |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 443643      | -11.9 |
| Hexabromobiphenyl  | 647433         | 671035      | 3.6   |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 356613      | 5.8  |
| Hexabromobiphenyl  | 382032         | 464053      | 21.5 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                 |       |     |       |      | ZB35 Col |                         |     |       |      |        |
|-------------------------|-------|-----|-------|------|----------|-------------------------|-----|-------|------|--------|
| Aroclor                 | Peak# | RT  | Shift | Area | Amount   | Peak#                   | RT  | Shift | Area | Amount |
| Aroclor-1016            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1016            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1016            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1016            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1221            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1221            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1221            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1232            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1232            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1232            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1232            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1242            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1242            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1242            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1242            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1248            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1248            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1248            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1248            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1254            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1254            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1254            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1254            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| Aroclor-1254            | 5     | --- |       |      | 0.0      | 5                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1260            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1260            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1260            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1260            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| Aroclor-1260            | 5     | --- |       |      | 0.0      | NS                      | --- |       |      | ----   |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1262            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1262            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1262            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1262            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1268            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1268            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1268            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1268            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |

Total PCB Area Coll (5.906 - 13.788) = 92819

Coll Total PCB = 0.0 ppm\*

Total PCB Area Col2 (5.784 - 14.016) = 49296 Col2 Total PCB = 0.0 ppm\*

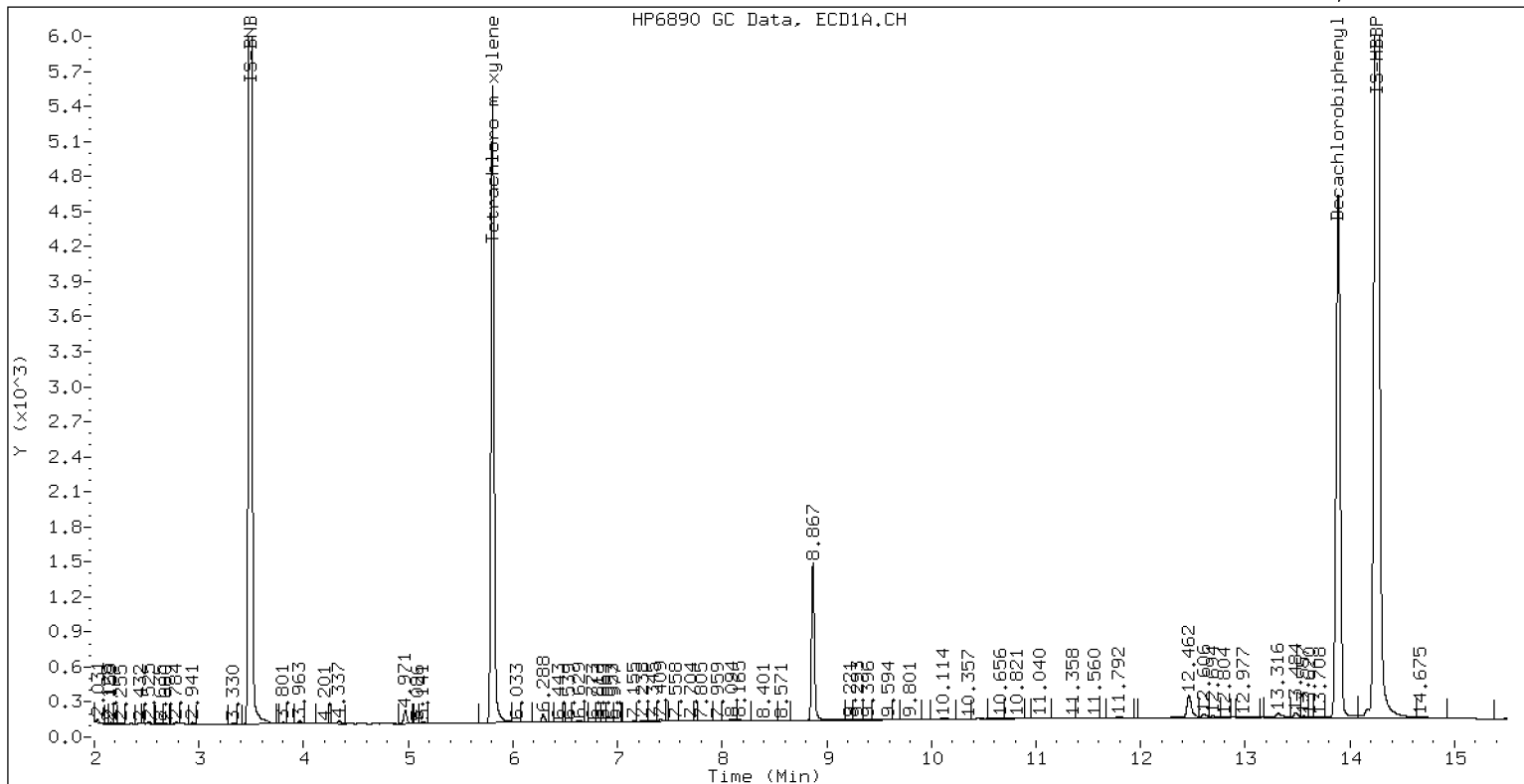
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 BLA0558-BLK1

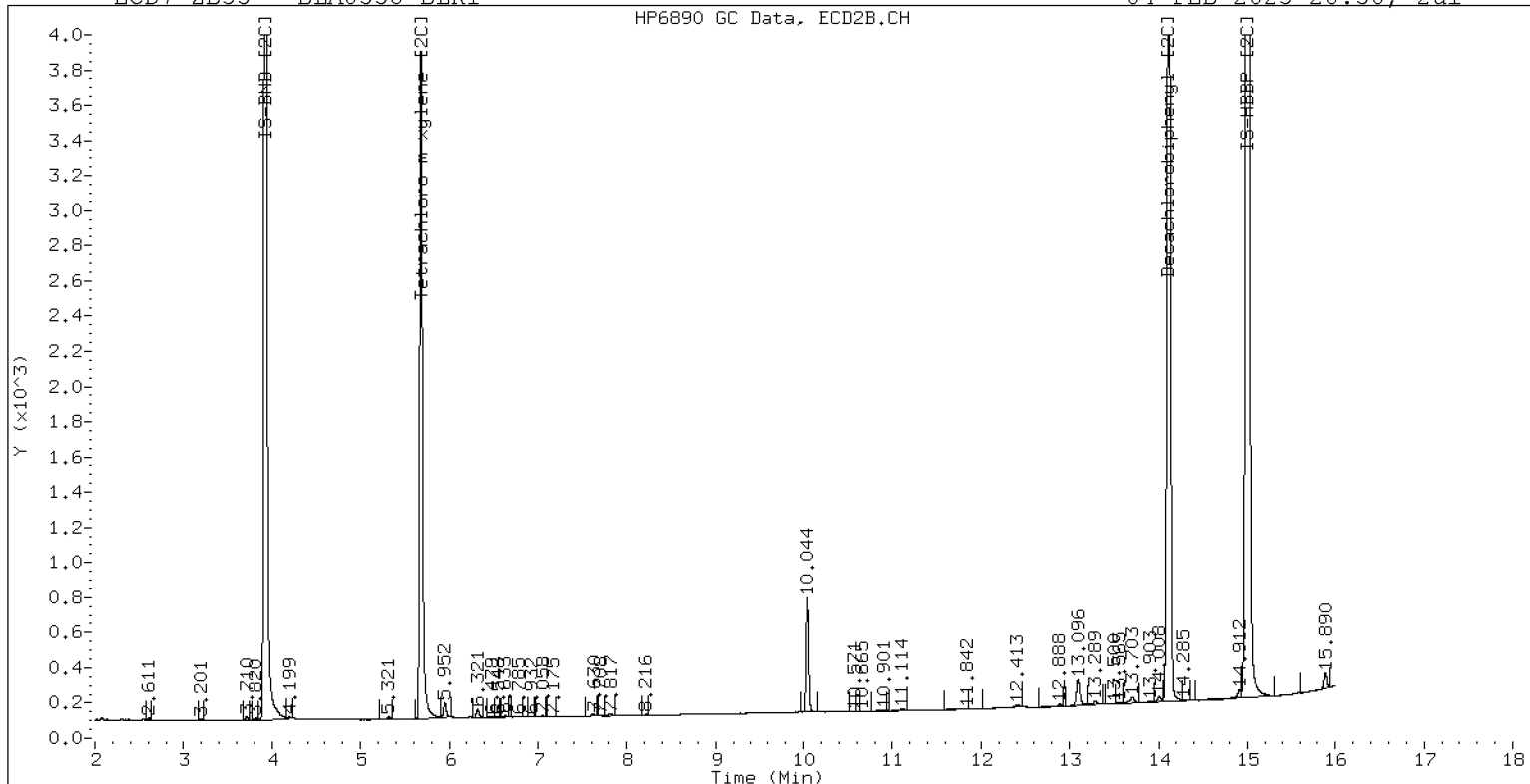
04-FEB-2023 20:50, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLA0558-BLK1

04-FEB-2023 20:50, 2ul



ZB-35 Manual Integration: NO



**Form I**  
**METHOD BLANK DATA SHEET**  
**EPA 8082A**

|              |
|--------------|
| <b>Blank</b> |
|--------------|

|             |                                  |                |  |
|-------------|----------------------------------|----------------|--|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>                           |
| Client:     | <u>Anchor QEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u>                   |
| Matrix:     | <u>Solid</u>                     | Laboratory ID: | <u>BLE0737-BLK1</u>                      |
| Sampled:    | <u>N/A</u>                       | Prepared:      | <u>05/26/23 10:46</u>                    |
| Solids:     |                                  | Preparation:   | <u>EPA 3546 (Microwave)</u>              |
| Batch:      | <u>BLE0737</u>                   | Sequence:      | <u>SLE0480</u>                           |
| Instrument: | <u>ECD7</u>                      | Column:        | <u>ZB5</u>                               |
|             |                                  | File ID:       | <u>05312311ECD7.D</u>                    |
|             |                                  | Analyzed:      | <u>05/31/23 15:53</u>                    |
|             |                                  | Initial/Final: | <u>12.5 g / 2.5 mL</u>                   |
|             |                                  | Calibration:   | <u>GE00022</u>                           |
|             |                                  | Cleanups:      | <u>Silica Gel, Sulfur, Sulfuric Acid</u> |

| CAS NO.    | COMPOUND     | DILUTION | CONC:<br>(ug/kg wet) | Q | DL  | RL  |
|------------|--------------|----------|----------------------|---|-----|-----|
| 12674-11-2 | Aroclor 1016 | 1        | 4.0                  | U | 1.6 | 4.0 |
| 11104-28-2 | Aroclor 1221 | 1        | 4.0                  | U | 1.6 | 4.0 |
| 11141-16-5 | Aroclor 1232 | 1        | 4.0                  | U | 1.6 | 4.0 |
| 53469-21-9 | Aroclor 1242 | 1        | 4.0                  | U | 1.6 | 4.0 |
| 12672-29-6 | Aroclor 1248 | 1        | 4.0                  | U | 1.6 | 4.0 |
| 11097-69-1 | Aroclor 1254 | 1        | 4.0                  | U | 1.6 | 4.0 |
| 11096-82-5 | Aroclor 1260 | 1        | 4.0                  | U | 0.6 | 4.0 |

| SURROGATES                 | ADDED:<br>(ug/kg wet) | FOUND:<br>(ug/kg wet) | % REC | QC LIMITS | Q |
|----------------------------|-----------------------|-----------------------|-------|-----------|---|
| Decachlorobiphenyl         | 8.0000                | 6.68                  | 83.5  | 40 - 126  |   |
| Tetrachlorometaxylene      | 8.0000                | 5.70                  | 71.2  | 44 - 120  |   |
| Decachlorobiphenyl [2C]    | 8.0000                | 6.99                  | 87.4  | 40 - 126  |   |
| Tetrachlorometaxylene [2C] | 8.0000                | 5.57                  | 69.6  | 44 - 120  |   |

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230531.b/05312311ECD7.D  
Data file 2: /230531.b/230531.b/05312311ECD7.D  
Method: \\target\share\chem4\ecd7.i\230531.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: BLE0737-BLK1  
Client ID:  
Injection Date: 31-MAY-2023 15:53  
Report Date: 06/01/2023 08:29  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.743   | -0.001 | 276130   | 5.630  | -0.003 | 148095   | 28.5   | 27.8 | 2.3           | Tetrachloro-m-xylene |
| 13.839  | -0.002 | 396410   | 14.067 | -0.002 | 340550   | 33.4   | 34.9 | 4.6           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 643661      | 7.0  |
| Hexabromobiphenyl  | 876625         | 1188360     | 35.6 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 349289         | 386841      | 10.8 |
| Hexabromobiphenyl  | 652984         | 686209      | 5.1  |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                 |       |     |       |      | ZB35 Col |                         |     |       |      |        |
|-------------------------|-------|-----|-------|------|----------|-------------------------|-----|-------|------|--------|
| Aroclor                 | Peak# | RT  | Shift | Area | Amount   | Peak#                   | RT  | Shift | Area | Amount |
| Aroclor-1016            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1016            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1016            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1016            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1221            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1221            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1221            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1232            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1232            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1232            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1232            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1242            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1242            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1242            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1242            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1248            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1248            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1248            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1248            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1254            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1254            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1254            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1254            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| Aroclor-1254            | 5     | --- |       |      | 0.0      | 5                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1260            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1260            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1260            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1260            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| Aroclor-1260            | 5     | --- |       |      | 0.0      | NS                      | --- |       |      | ----   |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1262            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1262            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1262            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1262            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |
| Aroclor-1268            | 1     | --- |       |      | 0.0      | 1                       | --- |       |      | 0.0    |
| Aroclor-1268            | 2     | --- |       |      | 0.0      | 2                       | --- |       |      | 0.0    |
| Aroclor-1268            | 3     | --- |       |      | 0.0      | 3                       | --- |       |      | 0.0    |
| Aroclor-1268            | 4     | --- |       |      | 0.0      | 4                       | --- |       |      | 0.0    |
| CollAve: <3 Quant Peaks |       |     |       |      |          | Col2Ave: <3 Quant Peaks |     |       |      |        |

Total PCB Area Coll (5.843 - 13.740) = 152045

Coll Total PCB = 0.0 ppm\*

Total PCB Area Col2 (5.733 - 13.970) = 35877 Col2 Total PCB = 0.0 ppm\*

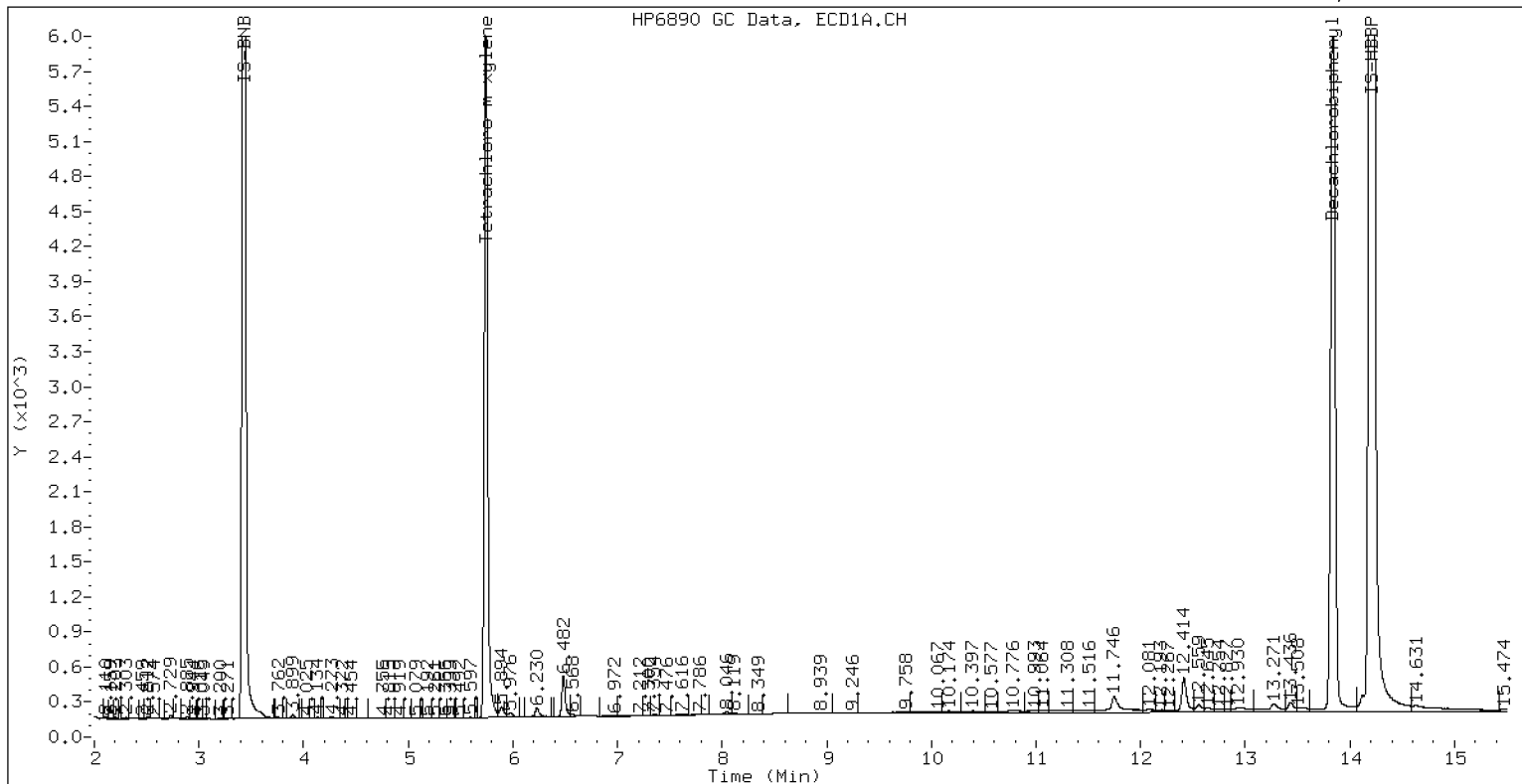
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

### PCB Dual Column Chromatograms

ECD7-ZB5 BLE0737-BLK1

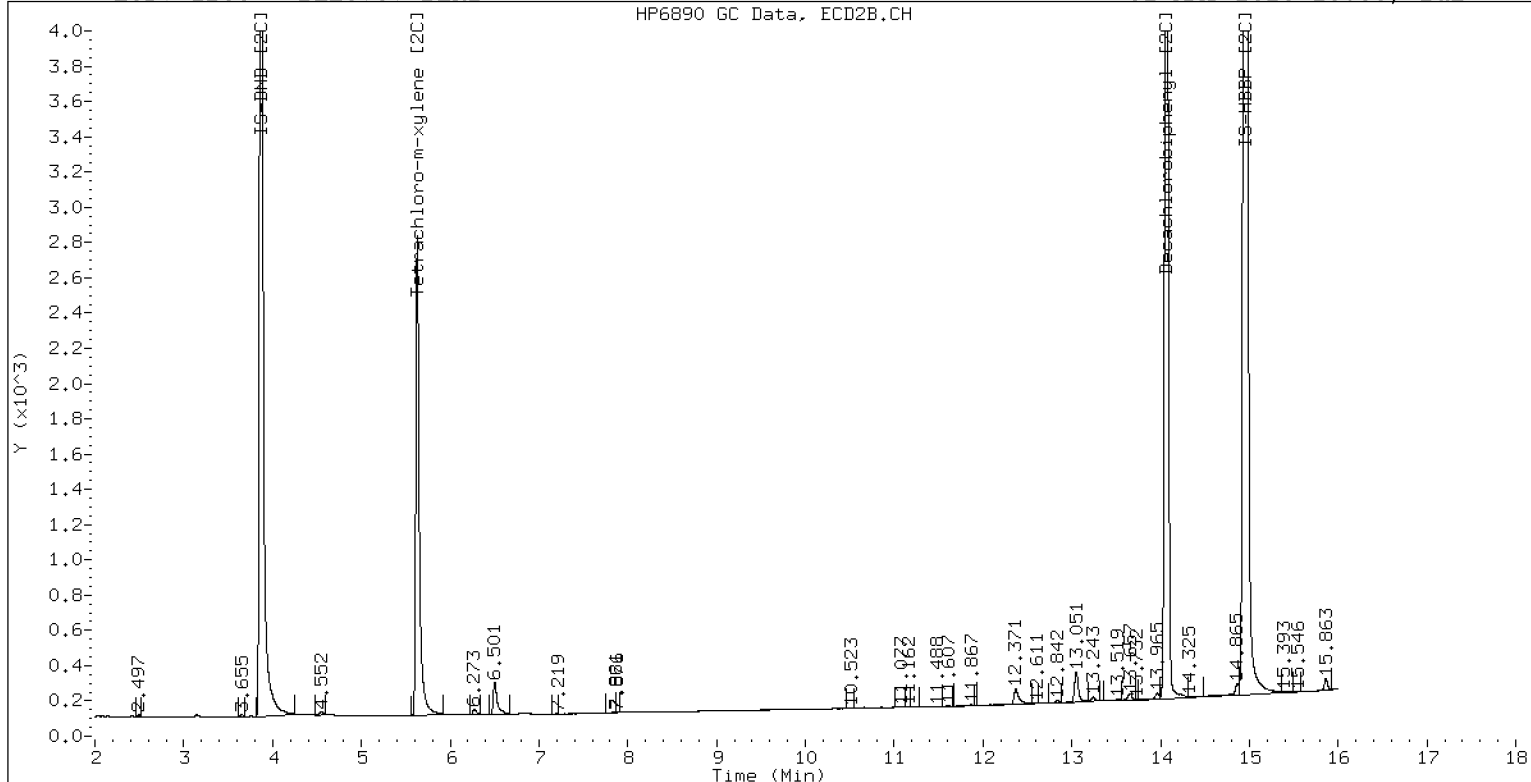
31-MAY-2023 15:53, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLE0737-BLK1

31-MAY-2023 15:53, 2ul



ZB-35 Manual Integration: NO



**LCS / LCS DUPLICATE RECOVERY**  
**EPA 8082A**

|                |                                  |                |                        |
|----------------|----------------------------------|----------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u> |
| Matrix:        | <u>Solid</u>                     | Analyzed:      | <u>02/04/23 21:11</u>  |
| Batch:         | <u>BLA0558</u>                   | Laboratory ID: | <u>BLA0558-BS1</u>     |
| Preparation:   | <u>EPA 3546 (Microwave)</u>      | Sequence Name: | <u>LCS</u>             |
| Initial/Final: | <u>12.5 g / 2.5 mL</u>           |                |                        |

| COMPOUND          | SPIKE ADDED (ug/kg wet) | LCS CONCENTRATION (ug/kg wet) | Q | LCS % REC. # | QC LIMITS REC. |
|-------------------|-------------------------|-------------------------------|---|--------------|----------------|
| Aroclor 1016 [2C] | 101                     | 89.3                          |   | 88.6         | 56 - 120       |
| Aroclor 1260 [2C] | 101                     | 85.6                          |   | 84.9         | 58 - 120       |

\* Indicates values outside of QC limits

| COMPOUND          | SPIKE ADDED (ug/kg wet) | LCSD CONCENTRATION (ug/kg wet) | Q | LCSD % REC. # | % RPD # | QC LIMITS |          |
|-------------------|-------------------------|--------------------------------|---|---------------|---------|-----------|----------|
|                   |                         |                                |   |               |         | RPD       | REC.     |
| Aroclor 1016 [2C] | 101                     | 93.0                           |   | 92.2          | 4.00    | 30        | 56 - 120 |
| Aroclor 1260 [2C] | 101                     | 85.7                           |   | 85.0          | 0.0593  | 30        | 58 - 120 |

\* Indicates values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042316ECD7.D  
Data file 2: /230204.b/230204.b/02042316ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: BLA0558-BS1  
Client ID:  
Injection Date: 04-FEB-2023 21:11  
Report Date: 02/06/2023 16:43  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.806  | 0.000         | 218253   | 5.683  | -0.001         | 158228   | 33.1       | 31.4        | 5.2 | Tetrachloro-m-xylene |
| 13.888 | 0.000         | 250131   | 14.116 | 0.001          | 263681   | 31.4       | 33.9        | 7.7 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 466752      | -7.3 |
| Hexabromobiphenyl  | 647433         | 745704      | 15.2 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 372629      | 10.6 |
| Hexabromobiphenyl  | 382032         | 490377      | 28.4 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |        |        |           |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|--------|-----------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area   | Amount |           |
| Aroclor-1016             | 1     | 7.267  | 0.000  | 75672  | 436.3    | 1                        | 7.251  | -0.000 | 86507  | 428.0  |           |
| Aroclor-1016             | 2     | 7.646  | -0.002 | 261186 | 454.5    | 2                        | 7.845  | -0.002 | 204082 | 460.8  |           |
| Aroclor-1016             | 3     | 7.784  | -0.001 | 105940 | 400.7    | 3                        | 8.044  | -0.003 | 83823  | 463.8  |           |
| Aroclor-1016             | 4     | 8.399  | -0.001 | 80382  | 472.6    | 4                        | 8.301  | -0.001 | 61450  | 433.7  |           |
| Total CollAve (4 peaks): |       |        |        | 441.0  |          | Total Col2Ave (4 peaks): |        |        |        | 446.6  | RPD = 1   |
| Corrected Ave (3 peaks): |       |        |        | 430.5  |          | Corrected Ave (3 peaks): |        |        |        | 440.8  | RPD = 2   |
|                          |       |        |        |        |          |                          |        |        |        |        |           |
| Aroclor-1221             | 1     | 4.732  | -0.001 | 422    | 12.2     | 1                        | 4.955  | -0.004 | 329    | 12.0   |           |
| Aroclor-1221             | 2     | 6.129  | -0.005 | 8190   | 116.1    | 2                        | 6.295  | -0.003 | 8423   | 140.7  |           |
| Aroclor-1221             | 3     | 6.380  | -0.004 | 46953  | 286.7    | 3                        | 6.618  | -0.004 | 37127  | 367.5  |           |
| Total CollAve (3 peaks): |       |        |        | 138.3  |          | Total Col2Ave (3 peaks): |        |        |        | 173.4  | RPD = 22  |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |        |        |           |
|                          |       |        |        |        |          |                          |        |        |        |        |           |
| Aroclor-1232             | 1     | 4.732  | -0.001 | 422    | 19.6     | 1                        | 4.955  | -0.005 | 329    | 19.9   |           |
| Aroclor-1232             | 2     | 6.129  | -0.004 | 8190   | 168.7    | 2                        | 7.251  | -0.005 | 86507  | 933.0  |           |
| Aroclor-1232             | 3     | 7.646  | -0.013 | 261186 | 1076.0   | 3                        | 7.845  | -0.009 | 204082 | 1080.7 |           |
| Aroclor-1232             | 4     | 8.571  | -0.014 | 99528  | 957.9    | 4                        | 8.706  | -0.007 | 64981  | 1238.5 |           |
| Total CollAve (4 peaks): |       |        |        | 555.6  |          | Total Col2Ave (4 peaks): |        |        |        | 818.0  | RPD = 38  |
| Corrected Ave (3 peaks): |       |        |        | 382.1  |          | Corrected Ave (3 peaks): |        |        |        | 677.8  | RPD = 56* |
|                          |       |        |        |        |          |                          |        |        |        |        |           |
| Aroclor-1242             | 1     | 7.267  | -0.001 | 75672  | 529.5    | 1                        | 7.251  | -0.000 | 86507  | 530.8  |           |
| Aroclor-1242             | 2     | 7.646  | -0.001 | 261186 | 558.4    | 2                        | 7.845  | -0.003 | 204082 | 563.8  |           |
| Aroclor-1242             | 3     | 8.399  | -0.002 | 80382  | 578.4    | 3                        | 9.146  | -0.005 | 10949  | 96.6   |           |
| Aroclor-1242             | 4     | 8.571  | -0.003 | 99528  | 474.1    | 4                        | 9.570  | -0.006 | 6422   | 42.7   |           |
| Total CollAve (4 peaks): |       |        |        | 535.1  |          | Total Col2Ave (4 peaks): |        |        |        | 308.5  | RPD = 54* |
| Corrected Ave (3 peaks): |       |        |        | 520.7  |          | Corrected Ave (3 peaks): |        |        |        | 223.4  | RPD = 80* |
|                          |       |        |        |        |          |                          |        |        |        |        |           |
| Aroclor-1248             | 1     | 8.399  | -0.001 | 80382  | 344.3    | 1                        | 8.301  | -0.001 | 61450  | 364.8  |           |
| Aroclor-1248             | 2     | 8.571  | -0.002 | 99528  | 334.2    | 2                        | 8.706  | -0.003 | 64981  | 358.4  |           |
| Aroclor-1248             | 3     | 8.988  | -0.003 | 76456  | 134.2    | 3                        | 9.146  | -0.005 | 10949  | 49.4   |           |
| Aroclor-1248             | 4     | 9.292  | 0.002  | 81200  | 287.9    | 4                        | 9.570  | -0.005 | 6422   | 23.4   |           |
| Total CollAve (4 peaks): |       |        |        | 275.1  |          | Total Col2Ave (4 peaks): |        |        |        | 199.0  | RPD = 32  |
| Corrected Ave (3 peaks): |       |        |        | 252.1  |          | Corrected Ave (3 peaks): |        |        |        | 143.8  | RPD = 55* |
|                          |       |        |        |        |          |                          |        |        |        |        |           |
| Aroclor-1254             | 1     | 9.292  | -0.000 | 81200  | 170.7    | 1                        | 9.441  | -0.002 | 53517  | 198.0  |           |
| Aroclor-1254             | 2     | ---    |        |        | 0.0      | 2                        | 9.961  | -0.001 | 11715  | 53.6   |           |
| Aroclor-1254             | 3     | 9.658  | -0.002 | 15584  | 51.1     | 3                        | 10.139 | 0.026  | 121171 | 254.2  |           |
| Aroclor-1254             | 4     | 9.794  | -0.004 | 46033  | 77.1     | 4                        | 10.364 | 0.001  | 154509 | 324.2  |           |
| Aroclor-1254             | 5     | 10.113 | -0.045 | 211247 | 543.9    | 5                        | 10.559 | -0.002 | 201067 | 757.4  |           |
| Total CollAve (4 peaks): |       |        |        | 210.7  |          | Total Col2Ave (5 peaks): |        |        |        | 317.5  | RPD = 40* |
| Corrected Ave (3 peaks): |       |        |        | 99.6   |          | Corrected Ave (4 peaks): |        |        |        | 207.5  | RPD = 70* |
|                          |       |        |        |        |          |                          |        |        |        |        |           |
| Aroclor-1260             | 1     | 11.038 | -0.000 | 167407 | 400.1    | 1                        | 11.647 | -0.000 | 150490 | 425.4  |           |
| Aroclor-1260             | 2     | 11.354 | -0.001 | 172731 | 401.6    | 2                        | 11.910 | -0.001 | 360228 | 402.5  |           |
| Aroclor-1260             | 3     | 11.725 | -0.002 | 421081 | 371.9    | 3                        | 12.430 | -0.000 | 102039 | 457.4  |           |
| Aroclor-1260             | 4     | 12.129 | -0.002 | 228049 | 389.8    | 4                        | 12.494 | -0.001 | 247206 | 426.8  |           |
| Aroclor-1260             | 5     | 12.238 | -0.001 | 91609  | 359.2    | NS                       | ---    |        |        | ----   |           |
| Total CollAve (5 peaks): |       |        |        | 384.5  |          | Total Col2Ave (4 peaks): |        |        |        | 428.0  | RPD = 11  |
| Corrected Ave (4 peaks): |       |        |        | 380.3  |          | Corrected Ave (3 peaks): |        |        |        | 418.2  | RPD = 10  |
|                          |       |        |        |        |          |                          |        |        |        |        |           |
| Aroclor-1262             | 1     | 10.815 | -0.017 | 333283 | 1105.2   | 1                        | 11.194 | -0.007 | 140693 | 293.1  |           |
| Aroclor-1262             | 2     | 12.238 | -0.007 | 91609  | 192.5    | 2                        | 11.647 | -0.006 | 150490 | 368.7  |           |
| Aroclor-1262             | 3     | 12.312 | -0.009 | 109927 | 212.7    | 3                        | 12.430 | -0.005 | 102039 | 234.8  |           |
| Aroclor-1262             | 4     | 12.980 | -0.009 | 100357 | 213.1    | 4                        | 12.494 | -0.010 | 247206 | 355.2  |           |
| Total CollAve (4 peaks): |       |        |        | 430.9  |          | Total Col2Ave (4 peaks): |        |        |        | 313.0  | RPD = 32  |
| Corrected Ave (3 peaks): |       |        |        | 206.1  |          | Corrected Ave (3 peaks): |        |        |        | 294.4  | RPD = 35  |
|                          |       |        |        |        |          |                          |        |        |        |        |           |
| Aroclor-1268             | 1     | 12.238 | -0.006 | 91609  | 74.4     | 1                        | 12.430 | -0.004 | 102039 | 89.1   |           |
| Aroclor-1268             | 2     | 12.312 | -0.006 | 109927 | 89.5     | 2                        | 12.494 | -0.008 | 247206 | 202.9  |           |
| Aroclor-1268             | 3     | 12.717 | 0.017  | 48910  | 48.1     | 3                        | 12.888 | -0.005 | 6075   | 6.0    |           |
| Aroclor-1268             | 4     | 13.482 | -0.006 | 30859  | 10.2     | 4                        | 13.704 | -0.005 | 28251  | 9.0    |           |
| Total CollAve (4 peaks): |       |        |        | 55.5   |          | Total Col2Ave (4 peaks): |        |        |        | 76.7   | RPD = 32  |

Corrected Ave (3 peaks): 44.2      Corrected Ave (3 peaks): 34.7      RPD = 24

Total PCB Area Col1 (5.906 - 13.788) = 4672219      Col1 Total PCB = 0.9 ppm\*

Total PCB Area Col2 (5.784 - 14.016) = 3633918      Col2 Total PCB = 0.9 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

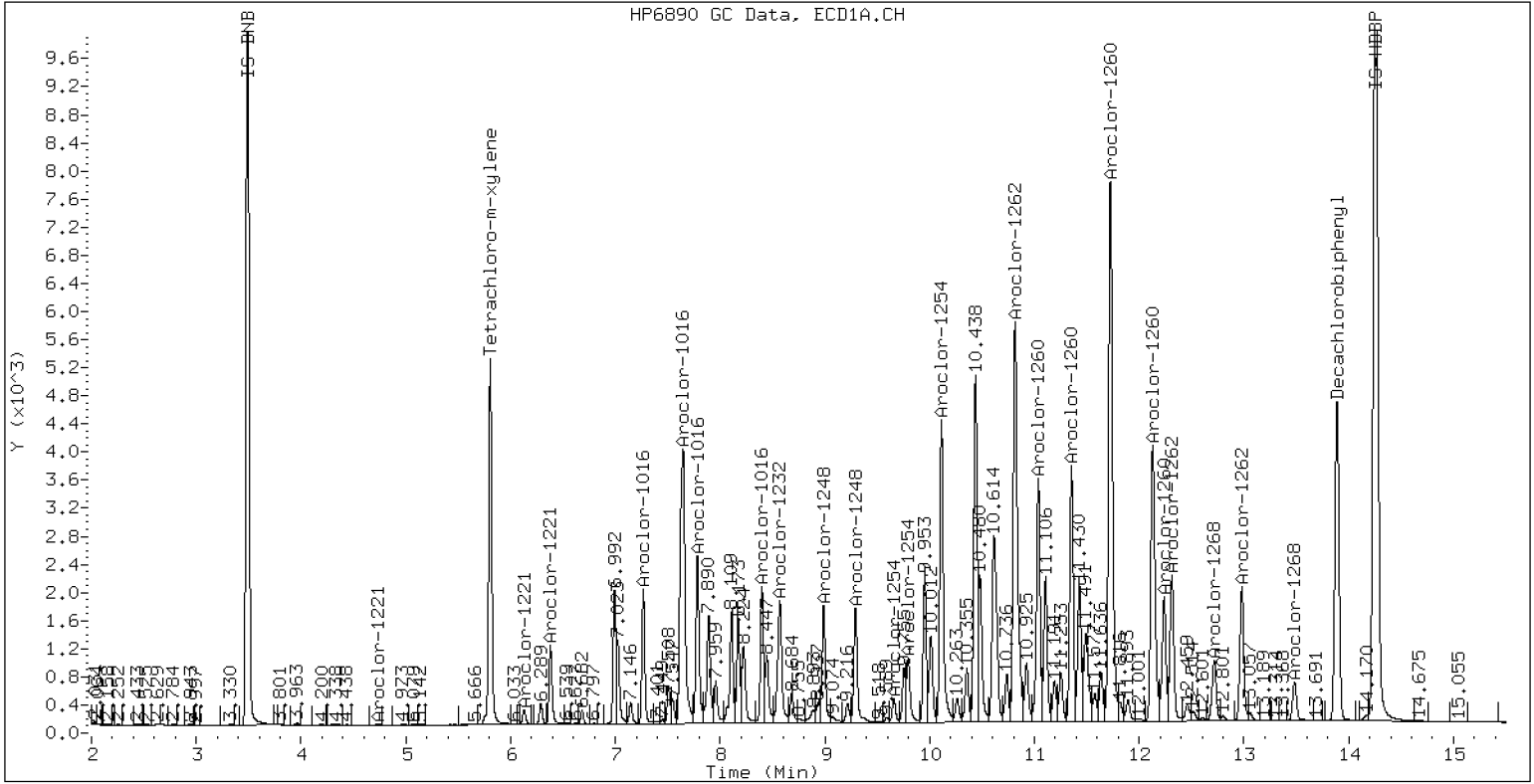
PCB-Form 10 Mod.



# PCB Dual Column Chromatograms

ECD7-ZB5 BLA0558-BS1

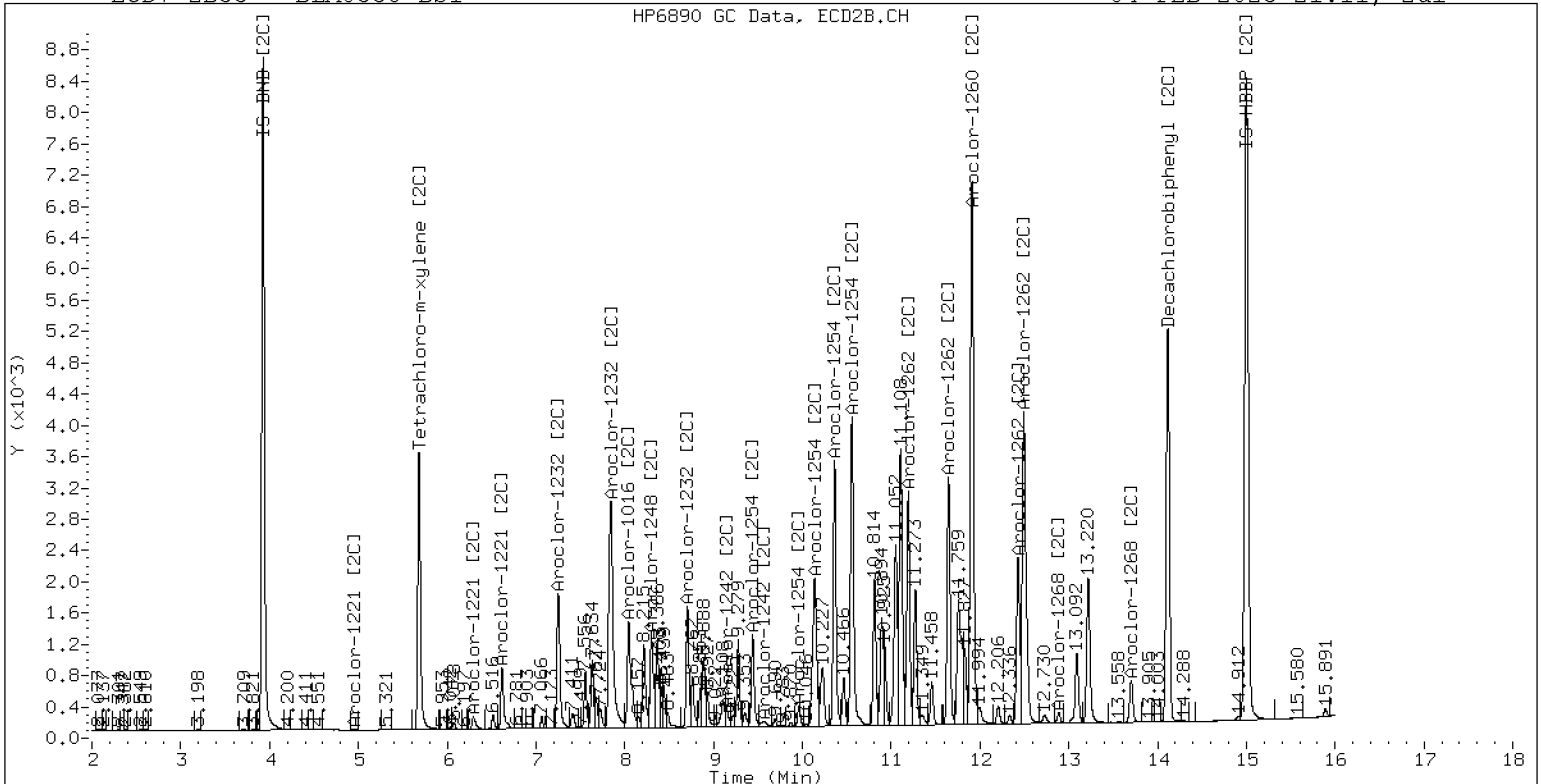
04-FEB-2023 21:11, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BIA0558-BS1

04-FEB-2023 21:11, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042317ECD7.D  
Data file 2: /230204.b/230204.b/02042317ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: BLA0558-BSD1  
Client ID:  
Injection Date: 04-FEB-2023 21:32  
Report Date: 02/06/2023 16:43  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.806  | 0.000         | 224280   | 5.683  | -0.001         | 162919   | 33.9       | 32.5        | 4.4 | Tetrachloro-m-xylene |
| 13.887 | -0.001        | 259075   | 14.115 | -0.001         | 270473   | 32.2       | 33.4        | 3.7 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 467754      | -7.1 |
| Hexabromobiphenyl  | 647433         | 752163      | 16.2 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 371351      | 10.2 |
| Hexabromobiphenyl  | 382032         | 509777      | 33.4 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |        |                 |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|-----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area   | Amount          |
| Aroclor-1016             | 1     | 7.267  | -0.000 | 79119  | 455.2    | 1                        | 7.251  | -0.001 | 90529  | 449.5           |
| Aroclor-1016             | 2     | 7.645  | -0.002 | 272236 | 472.7    | 2                        | 7.844  | -0.003 | 208949 | 473.4           |
| Aroclor-1016             | 3     | 7.783  | -0.002 | 109877 | 414.7    | 3                        | 8.045  | -0.002 | 87207  | 484.2           |
| Aroclor-1016             | 4     | 8.398  | -0.002 | 82919  | 486.5    | 4                        | 8.301  | -0.001 | 63846  | 452.2           |
| Total CollAve (4 peaks): |       |        |        | 457.2  |          | Total Col2Ave (4 peaks): |        |        |        | 464.8 RPD = 2   |
| Corrected Ave (3 peaks): |       |        |        | 447.5  |          | Corrected Ave (3 peaks): |        |        |        | 458.3 RPD = 2   |
|                          |       |        |        |        |          |                          |        |        |        |                 |
| Aroclor-1221             | 1     | 4.733  | 0.001  | 413    | 11.9     | 1                        | 4.952  | -0.007 | 387    | 14.2            |
| Aroclor-1221             | 2     | 6.129  | -0.005 | 8567   | 121.2    | 2                        | 6.295  | -0.003 | 8784   | 147.3           |
| Aroclor-1221             | 3     | 6.380  | -0.004 | 49256  | 300.1    | 3                        | 6.618  | -0.005 | 35162  | 349.2           |
| Total CollAve (3 peaks): |       |        |        | 144.4  |          | Total Col2Ave (3 peaks): |        |        |        | 170.2 RPD = 16  |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |        |                 |
|                          |       |        |        |        |          |                          |        |        |        |                 |
| Aroclor-1232             | 1     | 4.733  | 0.000  | 413    | 19.1     | 1                        | 4.952  | -0.008 | 387    | 23.4            |
| Aroclor-1232             | 2     | 6.129  | -0.005 | 8567   | 176.1    | 2                        | 7.251  | -0.006 | 90529  | 979.7           |
| Aroclor-1232             | 3     | 7.645  | -0.013 | 272236 | 1119.1   | 3                        | 7.844  | -0.010 | 208949 | 1110.3          |
| Aroclor-1232             | 4     | 8.570  | -0.014 | 103273 | 991.8    | 4                        | 8.706  | -0.007 | 66941  | 1280.2          |
| Total CollAve (4 peaks): |       |        |        | 576.5  |          | Total Col2Ave (4 peaks): |        |        |        | 848.4 RPD = 38  |
| Corrected Ave (3 peaks): |       |        |        | 395.7  |          | Corrected Ave (3 peaks): |        |        |        | 704.5 RPD = 56* |
|                          |       |        |        |        |          |                          |        |        |        |                 |
| Aroclor-1242             | 1     | 7.267  | -0.001 | 79119  | 552.4    | 1                        | 7.251  | -0.000 | 90529  | 557.4           |
| Aroclor-1242             | 2     | 7.645  | -0.001 | 272236 | 580.8    | 2                        | 7.844  | -0.003 | 208949 | 579.2           |
| Aroclor-1242             | 3     | 8.398  | -0.003 | 82919  | 595.4    | 3                        | 9.146  | -0.005 | 11498  | 101.8           |
| Aroclor-1242             | 4     | 8.570  | -0.004 | 103273 | 490.9    | 4                        | 9.570  | -0.006 | 6606   | 44.1            |
| Total CollAve (4 peaks): |       |        |        | 554.9  |          | Total Col2Ave (4 peaks): |        |        |        | 320.6 RPD = 54* |
| Corrected Ave (3 peaks): |       |        |        | 541.4  |          | Corrected Ave (3 peaks): |        |        |        | 234.4 RPD = 79* |
|                          |       |        |        |        |          |                          |        |        |        |                 |
| Aroclor-1248             | 1     | 8.398  | -0.002 | 82919  | 354.4    | 1                        | 8.301  | -0.001 | 63846  | 380.4           |
| Aroclor-1248             | 2     | 8.570  | -0.003 | 103273 | 346.0    | 2                        | 8.706  | -0.003 | 66941  | 370.5           |
| Aroclor-1248             | 3     | 8.988  | -0.004 | 78646  | 137.7    | 3                        | 9.146  | -0.005 | 11498  | 52.1            |
| Aroclor-1248             | 4     | 9.292  | 0.001  | 79884  | 282.7    | 4                        | 9.570  | -0.004 | 6606   | 24.2            |
| Total CollAve (4 peaks): |       |        |        | 280.2  |          | Total Col2Ave (4 peaks): |        |        |        | 206.8 RPD = 30  |
| Corrected Ave (3 peaks): |       |        |        | 255.5  |          | Corrected Ave (3 peaks): |        |        |        | 148.9 RPD = 53* |
|                          |       |        |        |        |          |                          |        |        |        |                 |
| Aroclor-1254             | 1     | 9.292  | -0.001 | 79884  | 167.6    | 1                        | 9.441  | -0.002 | 54940  | 203.9           |
| Aroclor-1254             | 2     | ---    |        |        | 0.0      | 2                        | 9.961  | -0.001 | 12099  | 55.6            |
| Aroclor-1254             | 3     | 9.657  | -0.003 | 15919  | 52.1     | 3                        | 10.139 | 0.025  | 124772 | 262.7           |
| Aroclor-1254             | 4     | 9.794  | -0.004 | 47585  | 79.5     | 4                        | 10.363 | 0.001  | 159003 | 334.7           |
| Aroclor-1254             | 5     | 10.113 | -0.045 | 217477 | 558.8    | 5                        | 10.558 | -0.003 | 207756 | 785.3           |
| Total CollAve (4 peaks): |       |        |        | 214.5  |          | Total Col2Ave (5 peaks): |        |        |        | 328.4 RPD = 42* |
| Corrected Ave (3 peaks): |       |        |        | 99.7   |          | Corrected Ave (4 peaks): |        |        |        | 214.2 RPD = 73* |
|                          |       |        |        |        |          |                          |        |        |        |                 |
| Aroclor-1260             | 1     | 11.037 | -0.001 | 172550 | 408.9    | 1                        | 11.646 | -0.001 | 157422 | 428.1           |
| Aroclor-1260             | 2     | 11.353 | -0.002 | 179257 | 413.2    | 2                        | 11.910 | -0.001 | 378504 | 406.8           |
| Aroclor-1260             | 3     | 11.726 | -0.002 | 448650 | 392.8    | 3                        | 12.430 | -0.000 | 104388 | 450.1           |
| Aroclor-1260             | 4     | 12.128 | -0.002 | 238012 | 403.4    | 4                        | 12.494 | -0.001 | 257773 | 428.1           |
| Aroclor-1260             | 5     | 12.237 | -0.002 | 95325  | 370.6    | NS                       | ---    |        |        | ----            |
| Total CollAve (5 peaks): |       |        |        | 397.8  |          | Total Col2Ave (4 peaks): |        |        |        | 428.3 RPD = 7   |
| Corrected Ave (4 peaks): |       |        |        | 393.9  |          | Corrected Ave (3 peaks): |        |        |        | 421.0 RPD = 7   |
|                          |       |        |        |        |          |                          |        |        |        |                 |
| Aroclor-1262             | 1     | 10.815 | -0.017 | 344676 | 1133.1   | 1                        | 11.193 | -0.007 | 146419 | 293.5           |
| Aroclor-1262             | 2     | 12.237 | -0.009 | 95325  | 198.6    | 2                        | 11.646 | -0.007 | 157422 | 371.0           |
| Aroclor-1262             | 3     | 12.311 | -0.009 | 114309 | 219.3    | 3                        | 12.430 | -0.005 | 104388 | 231.0           |
| Aroclor-1262             | 4     | 12.979 | -0.010 | 104364 | 219.7    | 4                        | 12.494 | -0.009 | 257773 | 356.3           |
| Total CollAve (4 peaks): |       |        |        | 442.7  |          | Total Col2Ave (4 peaks): |        |        |        | 313.0 RPD = 34  |
| Corrected Ave (3 peaks): |       |        |        | 212.5  |          | Corrected Ave (3 peaks): |        |        |        | 293.6 RPD = 32  |
|                          |       |        |        |        |          |                          |        |        |        |                 |
| Aroclor-1268             | 1     | 12.237 | -0.008 | 95325  | 76.7     | 1                        | 12.430 | -0.004 | 104388 | 87.7            |
| Aroclor-1268             | 2     | 12.311 | -0.007 | 114309 | 92.2     | 2                        | 12.494 | -0.007 | 257773 | 203.5           |
| Aroclor-1268             | 3     | 12.715 | 0.016  | 50803  | 49.5     | 3                        | 12.887 | -0.007 | 6519   | 6.2             |
| Aroclor-1268             | 4     | 13.482 | -0.007 | 32519  | 10.7     | 4                        | 13.703 | -0.006 | 30272  | 9.3             |
| Total CollAve (4 peaks): |       |        |        | 57.3   |          | Total Col2Ave (4 peaks): |        |        |        | 76.7 RPD = 29   |

Corrected Ave (3 peaks): 45.6      Corrected Ave (3 peaks): 34.4      RPD = 28

Total PCB Area Col1 (5.906 - 13.788) = 4822144      Col1 Total PCB = 0.9 ppm\*  
Total PCB Area Col2 (5.784 - 14.016) = 3775599      Col2 Total PCB = 1.0 ppm\*

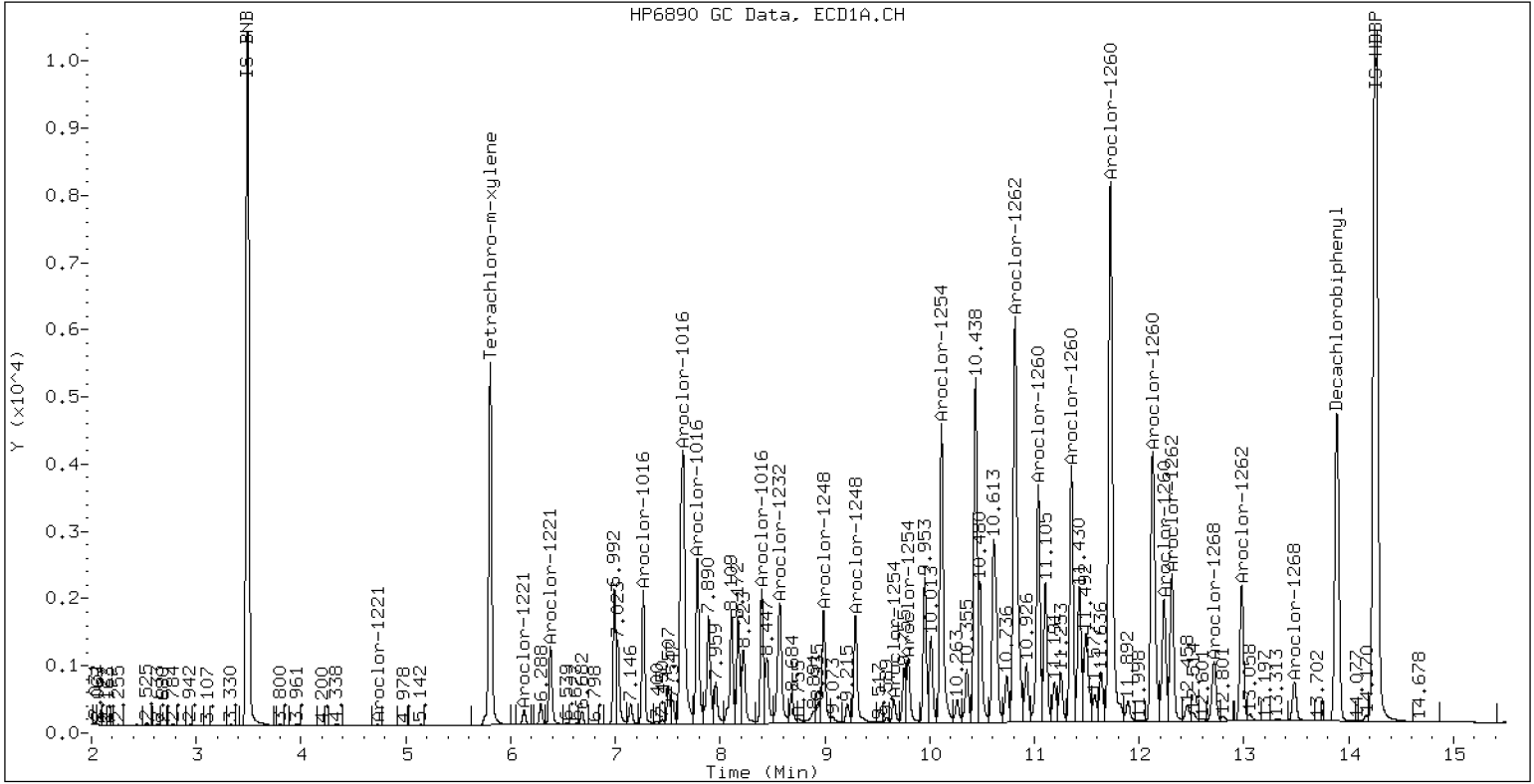
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 BLA0558-BSD1

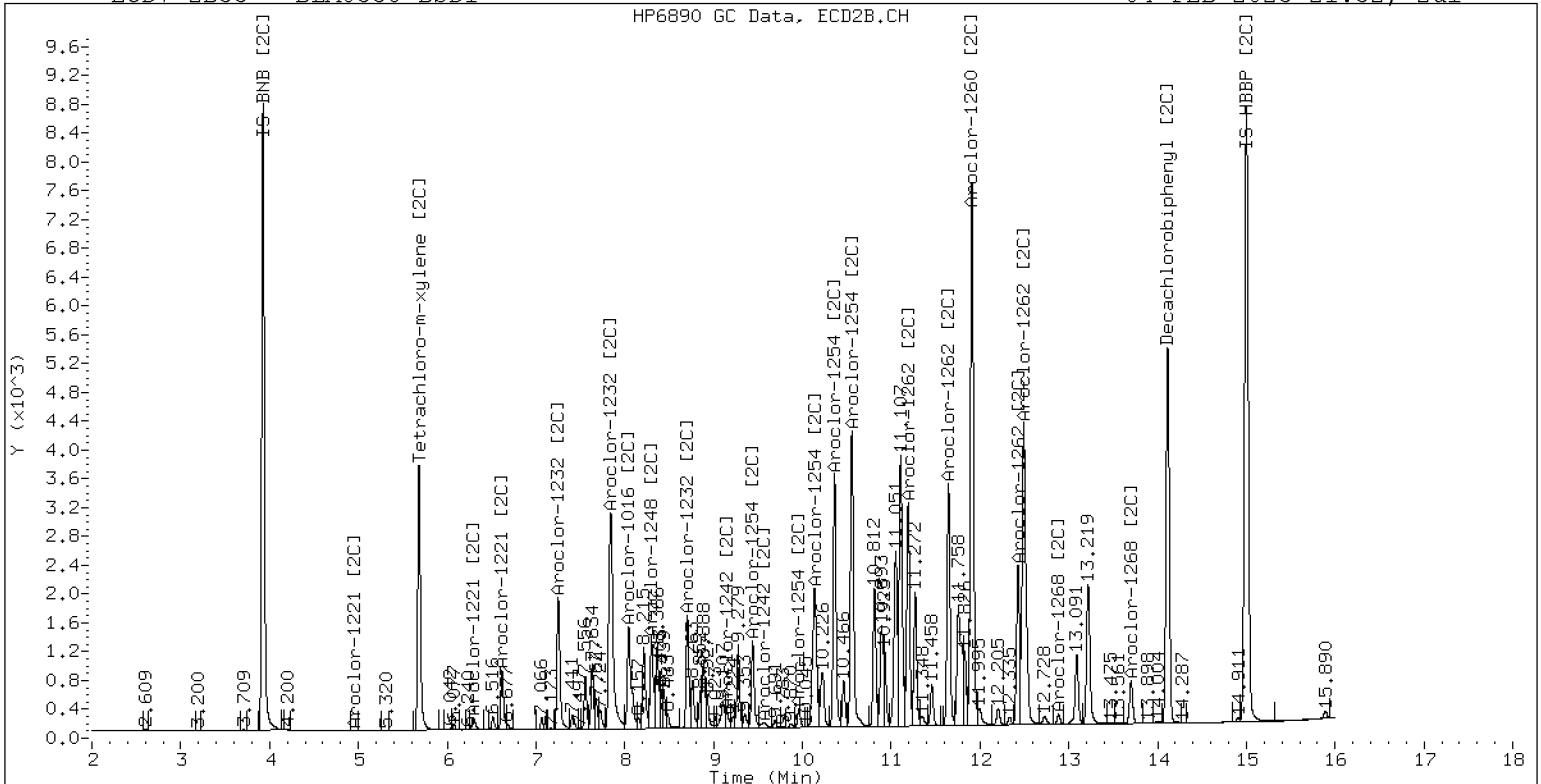
04-FEB-2023 21:32, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 BLA0558-BSD1

04-FEB-2023 21:32, 2u1



ZB-35 Manual Integration: NO



**LCS / LCS DUPLICATE RECOVERY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Analyzed: 05/31/23 16:13

Batch: BLE0737

Laboratory ID: BLE0737-BS1

Preparation: EPA 3546 (Microwave)

Sequence Name: LCS

Initial/Final: 12.5 g / 2.5 mL

| COMPOUND          | SPIKE ADDED (ug/kg wet) | LCS CONCENTRATION (ug/kg wet) | Q | LCS % REC. # | QC LIMITS REC. |
|-------------------|-------------------------|-------------------------------|---|--------------|----------------|
| Aroclor 1016      | 101                     | 80.2                          |   | 79.6         | 56 - 120       |
| Aroclor 1260 [2C] | 101                     | 86.8                          |   | 86.1         | 58 - 120       |

\* Indicates values outside of QC limits

| COMPOUND          | SPIKE ADDED (ug/kg wet) | LCSD CONCENTRATION (ug/kg wet) | Q | LCSD % REC. # | % RPD # | QC LIMITS |          |
|-------------------|-------------------------|--------------------------------|---|---------------|---------|-----------|----------|
|                   |                         |                                |   |               |         | RPD       | REC.     |
| Aroclor 1016      | 101                     | 83.8                           |   | 83.1          | 4.36    | 30        | 56 - 120 |
| Aroclor 1260 [2C] | 101                     | 90.8                           |   | 90.1          | 4.53    | 30        | 58 - 120 |

\* Indicates values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230531.b/05312312ECD7.D  
Data file 2: /230531.b/230531.b/05312312ECD7.D  
Method: \\target\share\chem4\ecd7.i\230531.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: BLE0737-BS1  
Client ID:  
Injection Date: 31-MAY-2023 16:13  
Report Date: 06/01/2023 08:29  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.742   | -0.001 | 310401   | 5.630  | -0.003 | 165422   | 30.9   | 29.8 | 3.8           | Tetrachloro-m-xylene |
| 13.839  | -0.001 | 419888   | 14.068 | -0.002 | 373121   | 35.1   | 37.0 | 5.3           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 666282      | 10.8 |
| Hexabromobiphenyl  | 876625         | 1199105     | 36.8 |

| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 349289         | 403608      | 15.6 |
| Hexabromobiphenyl  | 652984         | 710974      | 8.9  |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |        |                 |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|-----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area   | Amount          |
| Aroclor-1016             | 1     | 7.213  | -0.000 | 100436 | 389.3    | 1                        | 7.203  | -0.003 | 79672  | 348.7           |
| Aroclor-1016             | 2     | 7.595  | -0.000 | 342109 | 424.1    | 2                        | 7.809  | -0.006 | 189247 | 388.7           |
| Aroclor-1016             | 3     | 7.734  | -0.000 | 144982 | 388.7    | 3                        | 8.006  | -0.008 | 78939  | 367.6           |
| Aroclor-1016             | 4     | 8.398  | -0.001 | 61919  | 402.4    | 4                        | 8.259  | -0.004 | 60877  | 356.9           |
| Total CollAve (4 peaks): |       |        |        | 401.1  |          | Total Col2Ave (4 peaks): |        |        |        | 365.5 RPD = 9   |
| Corrected Ave (3 peaks): |       |        |        | 393.5  |          | Corrected Ave (3 peaks): |        |        |        | 357.7 RPD = 10  |
| Aroclor-1221             | 1     | 4.664  | 0.000  | 662    | 14.1     | 1                        | 4.892  | -0.003 | 224    | 7.5             |
| Aroclor-1221             | 2     | 6.068  | -0.002 | 11619  | 123.6    | 2                        | 6.246  | 0.001  | 7696   | 124.7           |
| Aroclor-1221             | 3     | 6.321  | 0.000  | 60458  | 270.8    | 3                        | 6.571  | -0.001 | 33683  | 347.1           |
| Total CollAve (3 peaks): |       |        |        | 136.2  |          | Total Col2Ave (3 peaks): |        |        |        | 159.8 RPD = 16  |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |        |                 |
| Aroclor-1232             | 1     | 4.664  | 0.000  | 662    | 21.2     | 1                        | 4.892  | -0.002 | 224    | 14.3            |
| Aroclor-1232             | 2     | 6.068  | -0.002 | 11619  | 178.9    | 2                        | 7.203  | -0.001 | 79672  | 889.1           |
| Aroclor-1232             | 3     | 7.595  | 0.000  | 342109 | 1105.6   | 3                        | 7.809  | -0.006 | 189247 | 1051.3          |
| Aroclor-1232             | 4     | 8.522  | -0.005 | 136504 | 1030.7   | 4                        | 8.665  | -0.004 | 60659  | 1163.5          |
| Total CollAve (4 peaks): |       |        |        | 584.1  |          | Total Col2Ave (4 peaks): |        |        |        | 779.5 RPD = 29  |
| Corrected Ave (3 peaks): |       |        |        | 410.3  |          | Corrected Ave (3 peaks): |        |        |        | 651.6 RPD = 45* |
| Aroclor-1242             | 1     | 7.213  | 0.001  | 100436 | 478.4    | 1                        | 7.203  | -0.001 | 79672  | 441.7           |
| Aroclor-1242             | 2     | 7.595  | 0.001  | 342109 | 514.2    | 2                        | 7.809  | -0.000 | 189247 | 493.2           |
| Aroclor-1242             | 3     | 8.398  | -0.001 | 61919  | 481.2    | 3                        | 9.114  | -0.005 | 11332  | 92.1            |
| Aroclor-1242             | 4     | 8.522  | -0.003 | 136504 | 458.4    | 4                        | 9.539  | -0.011 | 4653   | 31.4            |
| Total CollAve (4 peaks): |       |        |        | 483.0  |          | Total Col2Ave (4 peaks): |        |        |        | 264.6 RPD = 58* |
| Corrected Ave (3 peaks): |       |        |        | 472.7  |          | Corrected Ave (3 peaks): |        |        |        | 188.4 RPD = 86* |
| Aroclor-1248             | 1     | 8.398  | -0.002 | 61919  | 364.1    | 1                        | 8.259  | -0.004 | 60877  | 317.1           |
| Aroclor-1248             | 2     | 8.522  | -0.003 | 136504 | 308.9    | 2                        | 8.665  | -0.004 | 60659  | 299.1           |
| Aroclor-1248             | 3     | 8.939  | -0.006 | 134363 | 158.1    | 3                        | 9.114  | -0.010 | 11332  | 47.7            |
| Aroclor-1248             | 4     | 9.245  | 0.005  | 117031 | 270.1    | 4                        | 9.539  | -0.012 | 4653   | 16.3            |
| Total CollAve (4 peaks): |       |        |        | 275.3  |          | Total Col2Ave (4 peaks): |        |        |        | 170.0 RPD = 47* |
| Corrected Ave (3 peaks): |       |        |        | 245.7  |          | Corrected Ave (3 peaks): |        |        |        | 121.0 RPD = 68* |
| Aroclor-1254             | 1     | 9.245  | 0.001  | 117031 | 170.9    | 1                        | 9.401  | -0.003 | 55772  | 181.9           |
| Aroclor-1254             | 2     | ---    |        |        | 0.0      | 2                        | 9.539  | 0.040  | 4653   | 25.5            |
| Aroclor-1254             | 3     | 9.612  | -0.003 | 22680  | 51.3     | 3                        | 9.921  | -0.002 | 12125  | 48.8            |
| Aroclor-1254             | 4     | 9.749  | -0.005 | 65957  | 76.2     | 4                        | 10.097 | 0.020  | 122000 | 224.9           |
| Aroclor-1254             | 5     | 10.066 | -0.056 | 309710 | 592.2    | 5                        | 10.321 | -0.006 | 158007 | 293.6           |
| Total CollAve (4 peaks): |       |        |        | 222.7  |          | Total Col2Ave (5 peaks): |        |        |        | 154.9 RPD = 36  |
| Corrected Ave (3 peaks): |       |        |        | 99.5   |          | Corrected Ave (4 peaks): |        |        |        | 120.3 RPD = 19  |
| Aroclor-1260             | 1     | 10.990 | -0.003 | 244768 | 386.0    | 1                        | 11.603 | -0.004 | 162477 | 430.3           |
| Aroclor-1260             | 2     | 11.307 | -0.004 | 251316 | 401.6    | 2                        | 11.867 | -0.007 | 404755 | 409.8           |
| Aroclor-1260             | 3     | 11.679 | -0.006 | 629152 | 401.4    | 3                        | 12.385 | -0.005 | 114146 | 466.4           |
| Aroclor-1260             | 4     | 12.082 | -0.008 | 324991 | 423.4    | 4                        | 12.450 | -0.007 | 283261 | 429.4           |
| Aroclor-1260             | 5     | 12.190 | -0.003 | 130488 | 389.9    | NS                       | ---    |        |        | ----            |
| Total CollAve (5 peaks): |       |        |        | 400.5  |          | Total Col2Ave (4 peaks): |        |        |        | 434.0 RPD = 8   |
| Corrected Ave (4 peaks): |       |        |        | 394.7  |          | Corrected Ave (3 peaks): |        |        |        | 423.2 RPD = 7   |
| Aroclor-1262             | 1     | 10.770 | -0.009 | 488873 | 901.2    | 1                        | 11.150 | -0.003 | 154143 | 267.6           |
| Aroclor-1262             | 2     | 12.190 | -0.004 | 130488 | 171.0    | 2                        | 11.603 | -0.002 | 162477 | 334.4           |
| Aroclor-1262             | 3     | 12.265 | -0.004 | 157326 | 191.8    | 3                        | 12.385 | -0.001 | 114146 | 215.0           |
| Aroclor-1262             | 4     | 12.932 | -0.006 | 141447 | 211.7    | 4                        | 12.450 | -0.005 | 283261 | 327.4           |
| Total CollAve (4 peaks): |       |        |        | 368.9  |          | Total Col2Ave (4 peaks): |        |        |        | 286.1 RPD = 25  |
| Corrected Ave (3 peaks): |       |        |        | 191.5  |          | Corrected Ave (3 peaks): |        |        |        | 270.0 RPD = 34  |
| Aroclor-1268             | 1     | 12.190 | -0.005 | 130488 | 68.2     | 1                        | 12.385 | 0.000  | 114146 | 84.8            |
| Aroclor-1268             | 2     | 12.265 | -0.003 | 157326 | 82.8     | 2                        | 12.450 | -0.002 | 283261 | 195.8           |
| Aroclor-1268             | 3     | 12.668 | 0.020  | 69611  | 45.6     | 3                        | 12.841 | -0.002 | 7627   | 6.2             |
| Aroclor-1268             | 4     | 13.434 | -0.003 | 44650  | 10.2     | 4                        | 13.657 | -0.006 | 33044  | 8.3             |
| Total CollAve (4 peaks): |       |        |        | 51.7   |          | Total Col2Ave (4 peaks): |        |        |        | 73.8 RPD = 35   |



Corrected Ave (3 peaks): 41.3      Corrected Ave (3 peaks): 33.1      RPD = 22

Total PCB Area Col1 (5.843 - 13.740) = 6652550      Col1 Total PCB = 0.9 ppm\*  
Total PCB Area Col2 (5.733 - 13.970) = 3813123      Col2 Total PCB = 0.8 ppm\*

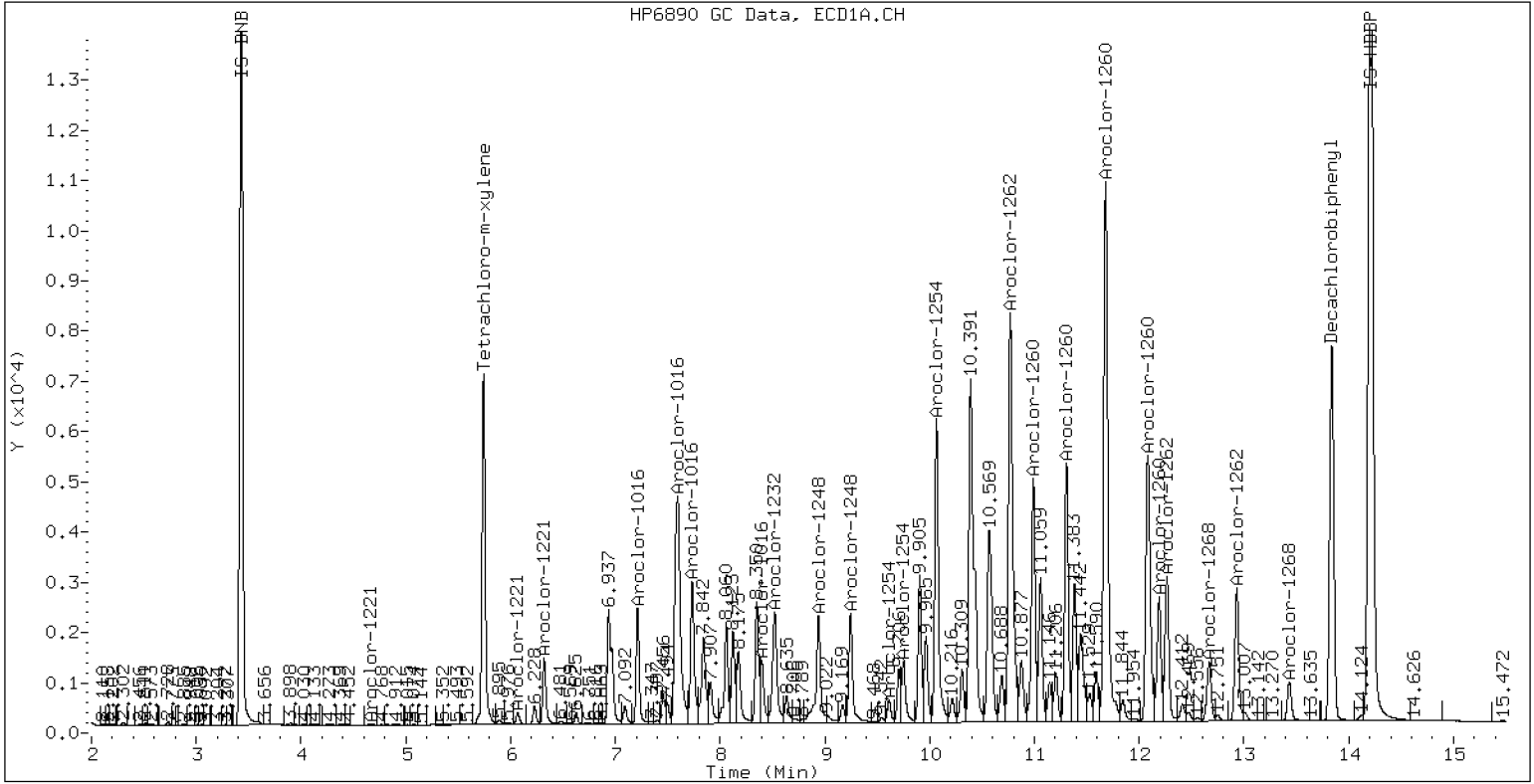
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 BLE0737-BS1

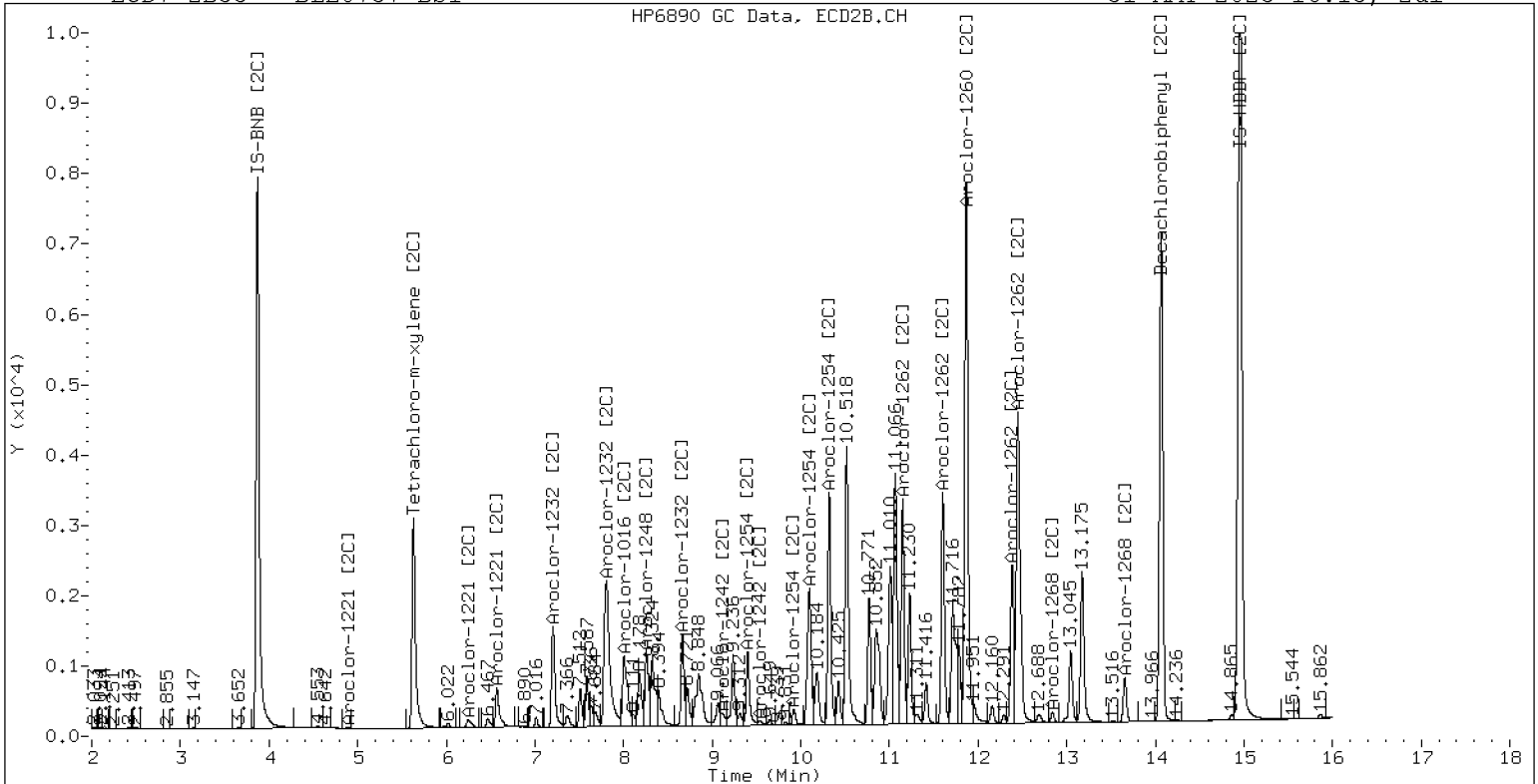
31-MAY-2023 16:13, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 BLE0737-BS1

31-MAY-2023 16:13, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230531.b/05312313ECD7.D  
Data file 2: /230531.b/230531.b/05312313ECD7.D  
Method: \\target\share\chem4\ecd7.i\230531.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: BLE0737-BSD1  
Client ID:  
Injection Date: 31-MAY-2023 16:34  
Report Date: 06/01/2023 08:29  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.743   | -0.001 | 319273   | 5.630  | -0.003 | 168463   | 30.5   | 29.6 | 2.9           | Tetrachloro-m-xylene |
| 13.840  | -0.001 | 413627   | 14.067 | -0.002 | 366690   | 32.9   | 34.8 | 5.8           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 695455      | 15.6 |
| Hexabromobiphenyl  | 876625         | 1260028     | 43.7 |

| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 349289         | 413369      | 18.3 |
| Hexabromobiphenyl  | 652984         | 741757      | 13.6 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |        |                 |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|-----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area   | Amount          |
| Aroclor-1016             | 1     | 7.213  | -0.000 | 108543 | 403.1    | 1                        | 7.204  | -0.002 | 87670  | 374.7           |
| Aroclor-1016             | 2     | 7.595  | -0.001 | 375196 | 445.6    | 2                        | 7.808  | -0.007 | 206242 | 413.6           |
| Aroclor-1016             | 3     | 7.733  | -0.001 | 158718 | 407.7    | 3                        | 8.006  | -0.008 | 86880  | 395.0           |
| Aroclor-1016             | 4     | 8.398  | -0.001 | 67411  | 419.7    | 4                        | 8.259  | -0.004 | 65955  | 377.5           |
| Total CollAve (4 peaks): |       |        |        | 419.0  |          | Total Col2Ave (4 peaks): |        |        |        | 390.2 RPD = 7   |
| Corrected Ave (3 peaks): |       |        |        | 410.2  |          | Corrected Ave (3 peaks): |        |        |        | 382.4 RPD = 7   |
|                          |       |        |        |        |          |                          |        |        |        |                 |
| Aroclor-1221             | 1     | 4.665  | 0.002  | 713    | 14.6     | 1                        | 4.898  | 0.004  | 255    | 8.4             |
| Aroclor-1221             | 2     | 6.069  | -0.001 | 13212  | 134.6    | 2                        | 6.245  | 0.000  | 8296   | 131.3           |
| Aroclor-1221             | 3     | 6.321  | 0.000  | 67331  | 288.9    | 3                        | 6.572  | 0.000  | 39334  | 395.7           |
| Total CollAve (3 peaks): |       |        |        | 146.0  |          | Total Col2Ave (3 peaks): |        |        |        | 178.5 RPD = 20  |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |        |                 |
|                          |       |        |        |        |          |                          |        |        |        |                 |
| Aroclor-1232             | 1     | 4.665  | 0.001  | 713    | 21.9     | 1                        | 4.898  | 0.004  | 255    | 15.9            |
| Aroclor-1232             | 2     | 6.069  | -0.001 | 13212  | 194.9    | 2                        | 7.204  | -0.000 | 87670  | 955.2           |
| Aroclor-1232             | 3     | 7.595  | -0.000 | 375196 | 1161.7   | 3                        | 7.808  | -0.007 | 206242 | 1118.6          |
| Aroclor-1232             | 4     | 8.522  | -0.005 | 149258 | 1079.7   | 4                        | 8.665  | -0.004 | 65676  | 1230.0          |
| Total CollAve (4 peaks): |       |        |        | 614.6  |          | Total Col2Ave (4 peaks): |        |        |        | 829.9 RPD = 30  |
| Corrected Ave (3 peaks): |       |        |        | 432.2  |          | Corrected Ave (3 peaks): |        |        |        | 696.6 RPD = 47* |
|                          |       |        |        |        |          |                          |        |        |        |                 |
| Aroclor-1242             | 1     | 7.213  | 0.000  | 108543 | 495.3    | 1                        | 7.204  | -0.000 | 87670  | 474.6           |
| Aroclor-1242             | 2     | 7.595  | 0.000  | 375196 | 540.3    | 2                        | 7.808  | -0.001 | 206242 | 524.8           |
| Aroclor-1242             | 3     | 8.398  | -0.001 | 67411  | 501.9    | 3                        | 9.114  | -0.005 | 12325  | 97.8            |
| Aroclor-1242             | 4     | 8.522  | -0.003 | 149258 | 480.2    | 4                        | 9.539  | -0.011 | 4725   | 31.1            |
| Total CollAve (4 peaks): |       |        |        | 504.4  |          | Total Col2Ave (4 peaks): |        |        |        | 282.1 RPD = 57* |
| Corrected Ave (3 peaks): |       |        |        | 492.5  |          | Corrected Ave (3 peaks): |        |        |        | 201.2 RPD = 84* |
|                          |       |        |        |        |          |                          |        |        |        |                 |
| Aroclor-1248             | 1     | 8.398  | -0.002 | 67411  | 379.8    | 1                        | 8.259  | -0.004 | 65955  | 335.4           |
| Aroclor-1248             | 2     | 8.522  | -0.003 | 149258 | 323.6    | 2                        | 8.665  | -0.005 | 65676  | 316.2           |
| Aroclor-1248             | 3     | 8.939  | -0.006 | 149755 | 168.8    | 3                        | 9.114  | -0.010 | 12325  | 50.6            |
| Aroclor-1248             | 4     | 9.245  | 0.006  | 127230 | 281.3    | 4                        | 9.539  | -0.012 | 4725   | 16.2            |
| Total CollAve (4 peaks): |       |        |        | 288.4  |          | Total Col2Ave (4 peaks): |        |        |        | 179.6 RPD = 46* |
| Corrected Ave (3 peaks): |       |        |        | 257.9  |          | Corrected Ave (3 peaks): |        |        |        | 127.7 RPD = 68* |
|                          |       |        |        |        |          |                          |        |        |        |                 |
| Aroclor-1254             | 1     | 9.245  | 0.001  | 127230 | 178.0    | 1                        | 9.401  | -0.003 | 60492  | 192.6           |
| Aroclor-1254             | 2     | ---    |        |        | 0.0      | 2                        | 9.539  | 0.041  | 4725   | 25.3            |
| Aroclor-1254             | 3     | 9.611  | -0.004 | 24587  | 53.3     | 3                        | 9.922  | -0.001 | 12968  | 50.9            |
| Aroclor-1254             | 4     | 9.749  | -0.005 | 72054  | 79.7     | 4                        | 10.097 | 0.020  | 131795 | 237.2           |
| Aroclor-1254             | 5     | 10.066 | -0.055 | 336975 | 617.3    | 5                        | 10.321 | -0.006 | 169820 | 308.1           |
| Total CollAve (4 peaks): |       |        |        | 232.1  |          | Total Col2Ave (5 peaks): |        |        |        | 162.8 RPD = 35  |
| Corrected Ave (3 peaks): |       |        |        | 103.7  |          | Corrected Ave (4 peaks): |        |        |        | 126.5 RPD = 20  |
|                          |       |        |        |        |          |                          |        |        |        |                 |
| Aroclor-1260             | 1     | 10.990 | -0.003 | 268766 | 403.4    | 1                        | 11.603 | -0.004 | 175515 | 445.5           |
| Aroclor-1260             | 2     | 11.307 | -0.004 | 275008 | 418.2    | 2                        | 11.868 | -0.006 | 455274 | 441.8           |
| Aroclor-1260             | 3     | 11.680 | -0.005 | 689413 | 418.6    | 3                        | 12.386 | -0.004 | 122687 | 480.5           |
| Aroclor-1260             | 4     | 12.085 | -0.006 | 353282 | 438.0    | 4                        | 12.451 | -0.006 | 308614 | 448.4           |
| Aroclor-1260             | 5     | 12.192 | -0.002 | 143442 | 407.8    | NS                       | ---    |        |        | ----            |
| Total CollAve (5 peaks): |       |        |        | 417.2  |          | Total Col2Ave (4 peaks): |        |        |        | 454.1 RPD = 8   |
| Corrected Ave (4 peaks): |       |        |        | 412.0  |          | Corrected Ave (3 peaks): |        |        |        | 445.3 RPD = 8   |
|                          |       |        |        |        |          |                          |        |        |        |                 |
| Aroclor-1262             | 1     | 10.771 | -0.007 | 534521 | 937.7    | 1                        | 11.149 | -0.004 | 168664 | 280.6           |
| Aroclor-1262             | 2     | 12.192 | -0.003 | 143442 | 178.9    | 2                        | 11.603 | -0.002 | 175515 | 346.3           |
| Aroclor-1262             | 3     | 12.266 | -0.003 | 173730 | 201.6    | 3                        | 12.386 | -0.001 | 122687 | 221.5           |
| Aroclor-1262             | 4     | 12.935 | -0.004 | 155924 | 222.0    | 4                        | 12.451 | -0.005 | 308614 | 341.8           |
| Total CollAve (4 peaks): |       |        |        | 385.1  |          | Total Col2Ave (4 peaks): |        |        |        | 297.6 RPD = 26  |
| Corrected Ave (3 peaks): |       |        |        | 200.9  |          | Corrected Ave (3 peaks): |        |        |        | 281.3 RPD = 33  |
|                          |       |        |        |        |          |                          |        |        |        |                 |
| Aroclor-1268             | 1     | 12.192 | -0.004 | 143442 | 71.4     | 1                        | 12.386 | 0.001  | 122687 | 87.4            |
| Aroclor-1268             | 2     | 12.266 | -0.002 | 173730 | 87.0     | 2                        | 12.451 | -0.001 | 308614 | 204.5           |
| Aroclor-1268             | 3     | 12.671 | 0.022  | 76808  | 47.9     | 3                        | 12.841 | -0.002 | 8255   | 6.4             |
| Aroclor-1268             | 4     | 13.435 | -0.002 | 48680  | 10.6     | 4                        | 13.658 | -0.005 | 35741  | 8.6             |
| Total CollAve (4 peaks): |       |        |        | 54.2   |          | Total Col2Ave (4 peaks): |        |        |        | 76.7 RPD = 34   |

Corrected Ave (3 peaks): 43.3      Corrected Ave (3 peaks): 34.1      RPD = 24

Total PCB Area Col1 (5.843 - 13.740) = 7292482      Col1 Total PCB = 0.9 ppm\*

Total PCB Area Col2 (5.733 - 13.970) = 4135866      Col2 Total PCB = 0.8 ppm\*

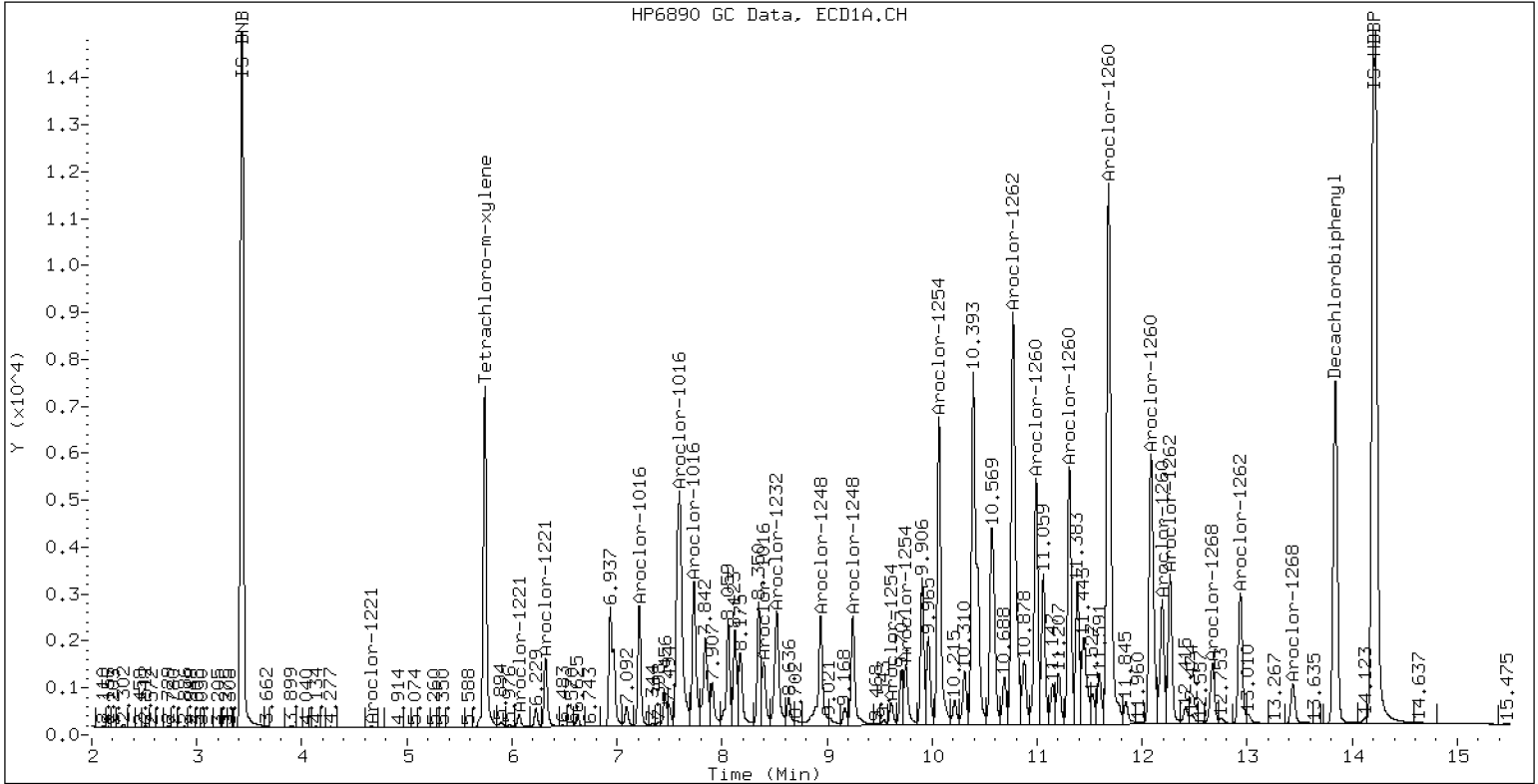
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 BLE0737-BSD1

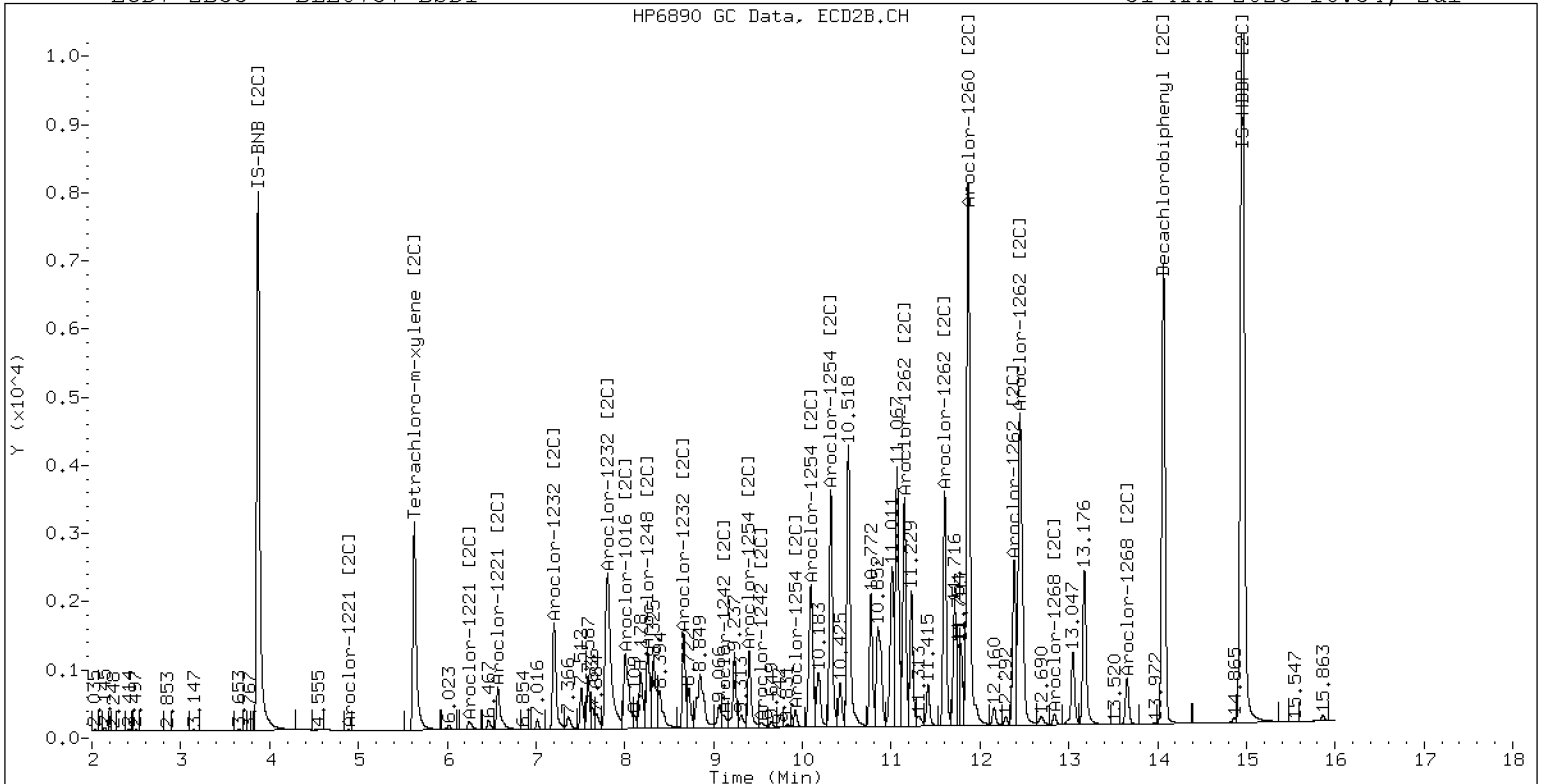
31-MAY-2023 16:34, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 BLE0737-BSD1

31-MAY-2023 16:34, 2u1



ZB-35 Manual Integration: NO



**MS / MS DUPLICATE RECOVERY**  
**EPA 8082A**

|                |                                  |                |                        |
|----------------|----------------------------------|----------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>         |
| Client:        | <u>Anchor OEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u> |
| Matrix:        | <u>Solid</u>                     | Analyzed:      | <u>02/05/23 01:03</u>  |
| Batch:         | <u>BLA0558</u>                   | Laboratory ID: | <u>BLA0558-MS1</u>     |
| Preparation:   | <u>EPA 3546 (Microwave)</u>      | Sequence Name: | <u>Matrix Spike</u>    |
| Initial/Final: | <u>20.37 g / 2.5 mL</u>          | Source Sample: | <u>LDW23-SS1178</u>    |

| COMPOUND          | SPIKE ADDED (ug/kg dry) | SAMPLE CONCENTRATION (ug/kg dry) | Q | MS CONCENTRATION (ug/kg dry) | Q | MS % REC. # | QC LIMITS REC. |
|-------------------|-------------------------|----------------------------------|---|------------------------------|---|-------------|----------------|
| Aroclor 1016      | 101                     | ND                               | U | 79.8                         |   | 79.1        | 56 - 120       |
| Aroclor 1260 [2C] | 101                     | 21.6                             |   | 88.8                         |   | 66.5        | 58 - 120       |

\* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.



**MS / MS DUPLICATE RECOVERY**  
**EPA 8082A**

|                |                                  |                |                         |
|----------------|----------------------------------|----------------|-------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>          |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u>  |
| Matrix:        | <u>Solid</u>                     | Analyzed:      | <u>02/05/23 01:24</u>   |
| Batch:         | <u>BLA0558</u>                   | Laboratory ID: | <u>BLA0558-MSD1</u>     |
| Preparation:   | <u>EPA 3546 (Microwave)</u>      | Sequence Name: | <u>Matrix Spike Dup</u> |
| Initial/Final: | <u>20.37 g / 2.5 mL</u>          | Source Sample: | <u>LDW23-SS1178</u>     |

| COMPOUND          | SPIKE ADDED (ug/kg dry) | MSD CONCENTRATION (ug/kg dry) | Q | MSD % REC. # | % RPD # | QC LIMITS |          |
|-------------------|-------------------------|-------------------------------|---|--------------|---------|-----------|----------|
|                   |                         |                               |   |              |         | RPD       | REC.     |
| Aroclor 1016      | 101                     | 84.7                          |   | 84.0         | 5.96    | 30        | 56 - 120 |
| Aroclor 1260 [2C] | 101                     | 88.6                          |   | 66.3         | 0.194   | 30        | 58 - 120 |

\* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042327ECD7.D  
Data file 2: /230204.b/230204.b/02042327ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: BLA0558-MS1  
Client ID:  
Injection Date: 05-FEB-2023 01:03  
Report Date: 02/06/2023 16:44  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.805   | -0.001 | 178658   | 5.681  | -0.003 | 146882   | 29.4   | 32.4 | 9.6           | Tetrachloro-m-xylene |
| 13.884  | -0.004 | 132392   | 14.112 | -0.004 | 159182   | 30.2   | 29.1 | 3.7           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 430049      | -14.6 |
| Hexabromobiphenyl  | 647433         | 409431      | -36.8 |

| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 335673      | -0.4 |
| Hexabromobiphenyl  | 382032         | 344095      | -9.9 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col                 |       |        |        |        |           |  |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|-----------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                   | Peak# | RT     | Shift  | Area   | Amount    |  |
| Aroclor-1016             | 1     | 7.265  | -0.002 | 67174  | 420.4                    | 1     | 7.249  | -0.003 | 81544  | 447.9     |  |
| Aroclor-1016             | 2     | 7.641  | -0.006 | 221226 | 417.8                    | 2     | 7.839  | -0.008 | 181395 | 454.7     |  |
| Aroclor-1016             | 3     | 7.779  | -0.006 | 78652  | 322.8                    | 3     | 8.039  | -0.008 | 63441  | 389.7     |  |
| Aroclor-1016             | 4     | 8.395  | -0.005 | 68066  | 434.3                    | 4     | 8.298  | -0.004 | 57904  | 453.7     |  |
| Total CollAve (4 peaks): |       |        |        | 398.8  | Total Col2Ave (4 peaks): |       |        |        | 436.5  | RPD = 9   |  |
| Corrected Ave (3 peaks): |       |        |        | 387.0  | Corrected Ave (3 peaks): |       |        |        | 430.4  | RPD = 11  |  |
| Aroclor-1221             | 1     | 4.732  | -0.001 | 859    | 27.0                     | 1     | 4.944  | -0.015 | 2643   | 107.4     |  |
| Aroclor-1221             | 2     | 6.130  | -0.004 | 10308  | 158.6                    | 2     | 6.294  | -0.004 | 7705   | 142.9     |  |
| Aroclor-1221             | 3     | 6.378  | -0.006 | 47317  | 313.6                    | 3     | 6.616  | -0.007 | 42614  | 468.2     |  |
| Total CollAve (3 peaks): |       |        |        | 166.4  | Total Col2Ave (3 peaks): |       |        |        | 239.5  | RPD = 36  |  |
| Corrected Ave: < 3 Peaks |       |        |        |        | Corrected Ave: < 3 Peaks |       |        |        |        |           |  |
| Aroclor-1232             | 1     | 4.732  | -0.002 | 859    | 43.3                     | 1     | 4.944  | -0.015 | 2643   | 177.1     |  |
| Aroclor-1232             | 2     | 6.130  | -0.004 | 10308  | 230.5                    | 2     | 7.249  | -0.008 | 81544  | 976.3     |  |
| Aroclor-1232             | 3     | 7.641  | -0.017 | 221226 | 989.2                    | 3     | 7.839  | -0.016 | 181395 | 1066.3    |  |
| Aroclor-1232             | 4     | 8.564  | -0.020 | 69854  | 729.7                    | 4     | 8.703  | -0.011 | 60487  | 1279.7    |  |
| Total CollAve (4 peaks): |       |        |        | 498.2  | Total Col2Ave (4 peaks): |       |        |        | 874.8  | RPD = 55* |  |
| Corrected Ave (3 peaks): |       |        |        | 334.5  | Corrected Ave (3 peaks): |       |        |        | 739.9  | RPD = 75* |  |
| Aroclor-1242             | 1     | 7.265  | -0.003 | 67174  | 510.1                    | 1     | 7.249  | -0.002 | 81544  | 555.5     |  |
| Aroclor-1242             | 2     | 7.641  | -0.006 | 221226 | 513.3                    | 2     | 7.839  | -0.009 | 181395 | 556.3     |  |
| Aroclor-1242             | 3     | 8.395  | -0.006 | 68066  | 531.6                    | 3     | 9.136  | -0.015 | 38113  | 373.2     |  |
| Aroclor-1242             | 4     | 8.564  | -0.010 | 69854  | 361.2                    | 4     | 9.532  | -0.044 | 40118  | 296.4     |  |
| Total CollAve (4 peaks): |       |        |        | 479.0  | Total Col2Ave (4 peaks): |       |        |        | 445.3  | RPD = 7   |  |
| Corrected Ave (3 peaks): |       |        |        | 461.5  | Corrected Ave (3 peaks): |       |        |        | 408.4  | RPD = 12  |  |
| Aroclor-1248             | 1     | 8.395  | -0.005 | 68066  | 316.4                    | 1     | 8.298  | -0.004 | 57904  | 381.6     |  |
| Aroclor-1248             | 2     | 8.564  | -0.009 | 69854  | 254.5                    | 2     | 8.703  | -0.006 | 60487  | 370.4     |  |
| Aroclor-1248             | 3     | 8.983  | -0.009 | 80738  | 153.8                    | 3     | 9.136  | -0.015 | 38113  | 191.0     |  |
| Aroclor-1248             | 4     | 9.285  | -0.005 | 89198  | 343.3                    | 4     | 9.532  | -0.043 | 40118  | 162.5     |  |
| Total CollAve (4 peaks): |       |        |        | 267.0  | Total Col2Ave (4 peaks): |       |        |        | 276.4  | RPD = 3   |  |
| Corrected Ave (3 peaks): |       |        |        | 241.6  | Corrected Ave (3 peaks): |       |        |        | 241.3  | RPD = 0   |  |
| Aroclor-1254             | 1     | 9.285  | -0.007 | 89198  | 203.5                    | 1     | 9.436  | -0.007 | 70887  | 291.1     |  |
| Aroclor-1254             | 2     | 9.360  | -0.010 | 20421  | 109.1                    | 2     | 9.954  | -0.008 | 28348  | 144.0     |  |
| Aroclor-1254             | 3     | 9.654  | -0.007 | 48638  | 173.2                    | 3     | 10.103 | -0.010 | 132544 | 308.7     |  |
| Aroclor-1254             | 4     | 9.784  | -0.014 | 109203 | 198.5                    | 4     | 10.357 | -0.006 | 174020 | 405.3     |  |
| Aroclor-1254             | 5     | 10.239 | 0.082  | 33655  | 94.1                     | 5     | 10.552 | -0.010 | 164625 | 688.4     |  |
| Total CollAve (5 peaks): |       |        |        | 155.7  | Total Col2Ave (5 peaks): |       |        |        | 367.5  | RPD = 81* |  |
| Corrected Ave (4 peaks): |       |        |        | 143.7  | Corrected Ave (4 peaks): |       |        |        | 287.3  | RPD = 67* |  |
| Aroclor-1260             | 1     | 11.031 | -0.007 | 101773 | 443.0                    | 1     | 11.641 | -0.007 | 106866 | 430.5     |  |
| Aroclor-1260             | 2     | 11.346 | -0.010 | 95032  | 402.4                    | 2     | 11.902 | -0.009 | 254583 | 405.4     |  |
| Aroclor-1260             | 3     | 11.717 | -0.011 | 256132 | 412.0                    | 3     | 12.421 | -0.009 | 82457  | 526.7     |  |
| Aroclor-1260             | 4     | 12.118 | -0.013 | 134944 | 420.1                    | 4     | 12.485 | -0.010 | 167788 | 412.8     |  |
| Aroclor-1260             | 5     | 12.232 | -0.007 | 53423  | 381.6                    | NS    | ---    |        |        | ----      |  |
| Total CollAve (5 peaks): |       |        |        | 411.8  | Total Col2Ave (4 peaks): |       |        |        | 443.9  | RPD = 7   |  |
| Corrected Ave (4 peaks): |       |        |        | 404.0  | Corrected Ave (3 peaks): |       |        |        | 416.2  | RPD = 3   |  |
| Aroclor-1262             | 1     | 10.806 | -0.026 | 254475 | 1536.9                   | 1     | 11.186 | -0.014 | 90816  | 269.7     |  |
| Aroclor-1262             | 2     | 12.232 | -0.014 | 53423  | 204.4                    | 2     | 11.641 | -0.012 | 106866 | 373.2     |  |
| Aroclor-1262             | 3     | 12.305 | -0.016 | 63761  | 224.7                    | 3     | 12.421 | -0.013 | 82457  | 270.4     |  |
| Aroclor-1262             | 4     | 12.971 | -0.018 | 60073  | 232.4                    | 4     | 12.485 | -0.018 | 167788 | 343.5     |  |
| Total CollAve (4 peaks): |       |        |        | 549.6  | Total Col2Ave (4 peaks): |       |        |        | 314.2  | RPD = 55* |  |
| Corrected Ave (3 peaks): |       |        |        | 220.5  | Corrected Ave (3 peaks): |       |        |        | 294.5  | RPD = 29  |  |
| Aroclor-1268             | 1     | 12.232 | -0.013 | 53423  | 79.0                     | 1     | 12.421 | -0.012 | 82457  | 102.6     |  |
| Aroclor-1268             | 2     | 12.305 | -0.013 | 63761  | 94.5                     | 2     | 12.485 | -0.016 | 167788 | 196.2     |  |
| Aroclor-1268             | 3     | 12.708 | 0.008  | 30813  | 55.1                     | 3     | 12.886 | -0.007 | 7723   | 10.9      |  |
| Aroclor-1268             | 4     | 13.477 | -0.012 | 21065  | 12.7                     | 4     | 13.697 | -0.011 | 26462  | 12.0      |  |
| Total CollAve (4 peaks): |       |        |        | 60.3   | Total Col2Ave (4 peaks): |       |        |        | 80.4   | RPD = 29  |  |

Corrected Ave (3 peaks): 48.9      Corrected Ave (3 peaks): 41.8      RPD = 16

Total PCB Area Col1 (5.906 - 13.788) = 3755168      Col1 Total PCB = 0.7 ppm\*

Total PCB Area Col2 (5.784 - 14.016) = 3331926      Col2 Total PCB = 0.9 ppm\*

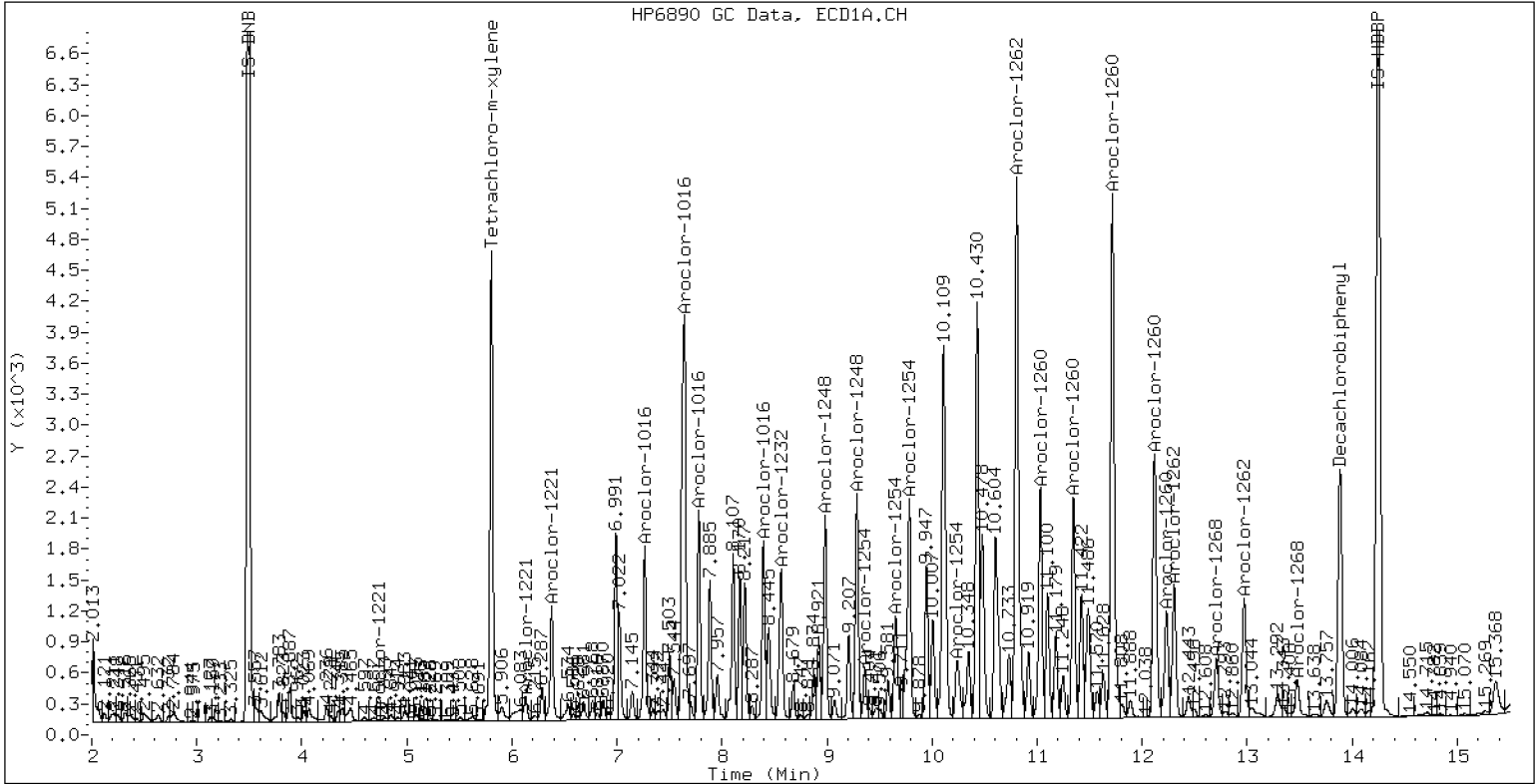
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 BLA0558-MS1

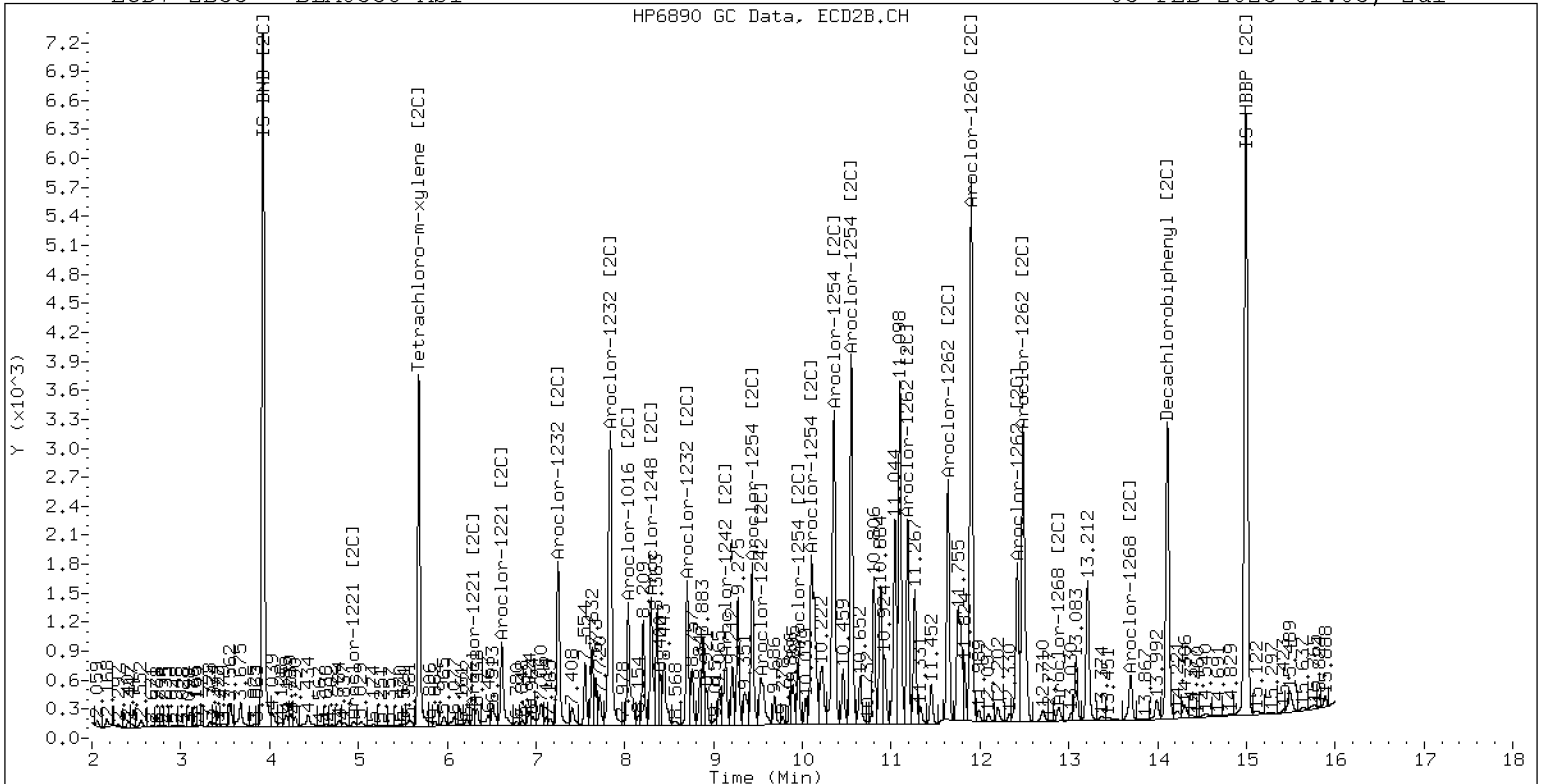
05-FEB-2023 01:03, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BIA0558-MS1

05-FEB-2023 01:03, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042328ECD7.D  
Data file 2: /230204.b/230204.b/02042328ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: BLA0558-MSD1  
Client ID:  
Injection Date: 05-FEB-2023 01:24  
Report Date: 02/06/2023 16:44  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.804   | -0.002 | 182786   | 5.680  | -0.004 | 145663   | 28.7   | 31.1 | 8.0           | Tetrachloro-m-xylene |
| 13.884  | -0.004 | 132817   | 14.112 | -0.004 | 161977   | 30.3   | 29.2 | 3.7           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |       |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 450183      | -10.6 |
| Hexabromobiphenyl  | 647433         | 409715      | -36.7 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 346307      | 2.8  |
| Hexabromobiphenyl  | 382032         | 349254      | -8.6 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        |                          | ZB35 Col |        |        |        |           |  |
|--------------------------|-------|--------|--------|--------|--------------------------|----------|--------|--------|--------|-----------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                   | Peak#    | RT     | Shift  | Area   | Amount    |  |
| Aroclor-1016             | 1     | 7.263  | -0.003 | 87272  | 521.7                    | 1        | 7.249  | -0.003 | 89938  | 478.8     |  |
| Aroclor-1016             | 2     | 7.640  | -0.008 | 226442 | 408.5                    | 2        | 7.838  | -0.009 | 188458 | 457.9     |  |
| Aroclor-1016             | 3     | 7.778  | -0.006 | 85020  | 333.4                    | 3        | 8.038  | -0.009 | 64279  | 382.7     |  |
| Aroclor-1016             | 4     | 8.394  | -0.006 | 70488  | 429.7                    | 4        | 8.297  | -0.005 | 58709  | 445.8     |  |
| Total CollAve (4 peaks): |       |        |        | 423.3  | Total Col2Ave (4 peaks): |          |        |        | 441.3  | RPD = 4   |  |
| Corrected Ave (3 peaks): |       |        |        | 390.5  | Corrected Ave (3 peaks): |          |        |        | 428.8  | RPD = 9   |  |
|                          |       |        |        |        |                          |          |        |        |        |           |  |
| Aroclor-1221             | 1     | 4.732  | -0.001 | 1536   | 46.2                     | 1        | 4.941  | -0.018 | 2422   | 95.4      |  |
| Aroclor-1221             | 2     | 6.127  | -0.007 | 15145  | 222.6                    | 2        | 6.296  | -0.002 | 8472   | 152.3     |  |
| Aroclor-1221             | 3     | 6.377  | -0.007 | 57064  | 361.3                    | 3        | 6.615  | -0.007 | 41876  | 446.0     |  |
| Total CollAve (3 peaks): |       |        |        | 210.0  | Total Col2Ave (3 peaks): |          |        |        | 231.2  | RPD = 10  |  |
| Corrected Ave: < 3 Peaks |       |        |        |        | Corrected Ave: < 3 Peaks |          |        |        |        |           |  |
|                          |       |        |        |        |                          |          |        |        |        |           |  |
| Aroclor-1232             | 1     | 4.732  | -0.002 | 1536   | 73.9                     | 1        | 4.941  | -0.018 | 2422   | 157.3     |  |
| Aroclor-1232             | 2     | 6.127  | -0.007 | 15145  | 323.5                    | 2        | 7.249  | -0.008 | 89938  | 1043.7    |  |
| Aroclor-1232             | 3     | 7.640  | -0.019 | 226442 | 967.2                    | 3        | 7.838  | -0.017 | 188458 | 1073.8    |  |
| Aroclor-1232             | 4     | 8.563  | -0.021 | 70702  | 705.5                    | 4        | 8.702  | -0.011 | 62374  | 1279.1    |  |
| Total CollAve (4 peaks): |       |        |        | 517.5  | Total Col2Ave (4 peaks): |          |        |        | 888.5  | RPD = 53* |  |
| Corrected Ave (3 peaks): |       |        |        | 367.7  | Corrected Ave (3 peaks): |          |        |        | 758.3  | RPD = 69* |  |
|                          |       |        |        |        |                          |          |        |        |        |           |  |
| Aroclor-1242             | 1     | 7.263  | -0.004 | 87272  | 633.1                    | 1        | 7.249  | -0.003 | 89938  | 593.8     |  |
| Aroclor-1242             | 2     | 7.640  | -0.007 | 226442 | 501.9                    | 2        | 7.838  | -0.010 | 188458 | 560.2     |  |
| Aroclor-1242             | 3     | 8.394  | -0.006 | 70488  | 525.9                    | 3        | 9.135  | -0.016 | 37780  | 358.6     |  |
| Aroclor-1242             | 4     | 8.563  | -0.011 | 70702  | 349.2                    | 4        | 9.532  | -0.044 | 39917  | 285.9     |  |
| Total CollAve (4 peaks): |       |        |        | 502.5  | Total Col2Ave (4 peaks): |          |        |        | 449.6  | RPD = 11  |  |
| Corrected Ave (3 peaks): |       |        |        | 459.0  | Corrected Ave (3 peaks): |          |        |        | 401.6  | RPD = 13  |  |
|                          |       |        |        |        |                          |          |        |        |        |           |  |
| Aroclor-1248             | 1     | 8.394  | -0.005 | 70488  | 313.0                    | 1        | 8.297  | -0.005 | 58709  | 375.0     |  |
| Aroclor-1248             | 2     | 8.563  | -0.010 | 70702  | 246.1                    | 2        | 8.702  | -0.006 | 62374  | 370.2     |  |
| Aroclor-1248             | 3     | 8.983  | -0.008 | 79519  | 144.7                    | 3        | 9.135  | -0.016 | 37780  | 183.5     |  |
| Aroclor-1248             | 4     | 9.284  | -0.006 | 89540  | 329.2                    | 4        | 9.532  | -0.043 | 39917  | 156.8     |  |
| Total CollAve (4 peaks): |       |        |        | 258.3  | Total Col2Ave (4 peaks): |          |        |        | 271.4  | RPD = 5   |  |
| Corrected Ave (3 peaks): |       |        |        | 234.6  | Corrected Ave (3 peaks): |          |        |        | 236.8  | RPD = 1   |  |
|                          |       |        |        |        |                          |          |        |        |        |           |  |
| Aroclor-1254             | 1     | 9.284  | -0.008 | 89540  | 195.2                    | 1        | 9.435  | -0.007 | 70672  | 281.3     |  |
| Aroclor-1254             | 2     | 9.360  | -0.010 | 20173  | 103.0                    | 2        | 9.953  | -0.009 | 27490  | 135.4     |  |
| Aroclor-1254             | 3     | 9.654  | -0.006 | 49748  | 169.2                    | 3        | 10.103 | -0.011 | 72925  | 164.6     |  |
| Aroclor-1254             | 4     | 9.783  | -0.015 | 109404 | 189.9                    | 4        | 10.357 | -0.005 | 175824 | 396.9     |  |
| Aroclor-1254             | 5     | 10.239 | 0.081  | 33550  | 89.6                     | 5        | 10.551 | -0.010 | 166421 | 674.5     |  |
| Total CollAve (5 peaks): |       |        |        | 149.4  | Total Col2Ave (5 peaks): |          |        |        | 330.5  | RPD = 76* |  |
| Corrected Ave (4 peaks): |       |        |        | 137.9  | Corrected Ave (4 peaks): |          |        |        | 244.6  | RPD = 56* |  |
|                          |       |        |        |        |                          |          |        |        |        |           |  |
| Aroclor-1260             | 1     | 11.031 | -0.007 | 100089 | 435.4                    | 1        | 11.641 | -0.006 | 108310 | 429.9     |  |
| Aroclor-1260             | 2     | 11.346 | -0.009 | 97099  | 410.9                    | 2        | 11.902 | -0.009 | 257505 | 404.0     |  |
| Aroclor-1260             | 3     | 11.717 | -0.010 | 257381 | 413.7                    | 3        | 12.421 | -0.009 | 83683  | 526.7     |  |
| Aroclor-1260             | 4     | 12.118 | -0.013 | 135662 | 422.1                    | 4        | 12.485 | -0.010 | 169751 | 411.5     |  |
| Aroclor-1260             | 5     | 12.232 | -0.007 | 53763  | 383.7                    | NS       | ---    |        |        | ----      |  |
| Total CollAve (5 peaks): |       |        |        | 413.2  | Total Col2Ave (4 peaks): |          |        |        | 443.0  | RPD = 7   |  |
| Corrected Ave (4 peaks): |       |        |        | 407.6  | Corrected Ave (3 peaks): |          |        |        | 415.1  | RPD = 2   |  |
|                          |       |        |        |        |                          |          |        |        |        |           |  |
| Aroclor-1262             | 1     | 10.805 | -0.027 | 254660 | 1536.9                   | 1        | 11.187 | -0.013 | 92818  | 271.5     |  |
| Aroclor-1262             | 2     | 12.232 | -0.014 | 53763  | 205.6                    | 2        | 11.641 | -0.012 | 108310 | 372.6     |  |
| Aroclor-1262             | 3     | 12.305 | -0.016 | 63805  | 224.7                    | 3        | 12.421 | -0.013 | 83683  | 270.3     |  |
| Aroclor-1262             | 4     | 12.972 | -0.017 | 60860  | 235.2                    | 4        | 12.485 | -0.018 | 169751 | 342.4     |  |
| Total CollAve (4 peaks): |       |        |        | 550.6  | Total Col2Ave (4 peaks): |          |        |        | 314.2  | RPD = 55* |  |
| Corrected Ave (3 peaks): |       |        |        | 221.8  | Corrected Ave (3 peaks): |          |        |        | 294.8  | RPD = 28  |  |
|                          |       |        |        |        |                          |          |        |        |        |           |  |
| Aroclor-1268             | 1     | 12.232 | -0.013 | 53763  | 79.4                     | 1        | 12.421 | -0.012 | 83683  | 102.6     |  |
| Aroclor-1268             | 2     | 12.305 | -0.013 | 63805  | 94.5                     | 2        | 12.485 | -0.016 | 169751 | 195.6     |  |
| Aroclor-1268             | 3     | 12.708 | 0.009  | 30987  | 55.4                     | 3        | 12.886 | -0.007 | 7588   | 10.5      |  |
| Aroclor-1268             | 4     | 13.477 | -0.012 | 21551  | 13.0                     | 4        | 13.697 | -0.011 | 26197  | 11.7      |  |
| Total CollAve (4 peaks): |       |        |        | 60.6   | Total Col2Ave (4 peaks): |          |        |        | 80.1   | RPD = 28  |  |

Corrected Ave (3 peaks): 49.3      Corrected Ave (3 peaks): 41.6      RPD = 17

Total PCB Area Col1 (5.906 - 13.788) = 4000756      Col1 Total PCB = 0.8 ppm\*

Total PCB Area Col2 (5.784 - 14.016) = 3502263      Col2 Total PCB = 1.0 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.







**MS / MS DUPLICATE RECOVERY**  
**EPA 8082A**

|                |                                  |                |                        |
|----------------|----------------------------------|----------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>         |
| Client:        | <u>Anchor OEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u> |
| Matrix:        | <u>Solid</u>                     | Analyzed:      | <u>05/31/23 17:37</u>  |
| Batch:         | <u>BLE0737</u>                   | Laboratory ID: | <u>BLE0737-MS1</u>     |
| Preparation:   | <u>EPA 3546 (Microwave)</u>      | Sequence Name: | <u>Matrix Spike</u>    |
| Initial/Final: | <u>25.37 g / 2.5 mL</u>          | Source Sample: | <u>LDW23-SS1112</u>    |

| COMPOUND          | SPIKE ADDED (ug/kg dry) | SAMPLE CONCENTRATION (ug/kg dry) | Q | MS CONCENTRATION (ug/kg dry) | Q | MS % REC. # | QC LIMITS REC. |
|-------------------|-------------------------|----------------------------------|---|------------------------------|---|-------------|----------------|
| Aroclor 1016      | 101                     | ND                               | U | 69.2                         |   | 68.7        | 56 - 120       |
| Aroclor 1260 [2C] | 101                     | 54.5                             |   | 117                          |   | 61.9        | 58 - 120       |

\* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.



**MS / MS DUPLICATE RECOVERY**  
**EPA 8082A**

|                |                                  |                |                         |
|----------------|----------------------------------|----------------|-------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>          |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u>  |
| Matrix:        | <u>Solid</u>                     | Analyzed:      | <u>05/31/23 17:58</u>   |
| Batch:         | <u>BLE0737</u>                   | Laboratory ID: | <u>BLE0737-MSD1</u>     |
| Preparation:   | <u>EPA 3546 (Microwave)</u>      | Sequence Name: | <u>Matrix Spike Dup</u> |
| Initial/Final: | <u>25.37 g / 2.5 mL</u>          | Source Sample: | <u>LDW23-SS1112</u>     |

| COMPOUND          | SPIKE ADDED (ug/kg dry) | MSD CONCENTRATION (ug/kg dry) | Q | MSD % REC. # | % RPD # | QC LIMITS |          |
|-------------------|-------------------------|-------------------------------|---|--------------|---------|-----------|----------|
|                   |                         |                               |   |              |         | RPD       | REC.     |
| Aroclor 1016      | 101                     | 77.4                          |   | 76.6         | 11.2    | 30        | 56 - 120 |
| Aroclor 1260 [2C] | 101                     | 124                           |   | 68.8         | 5.78    | 30        | 58 - 120 |

\* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230531.b/05312316ECD7.D  
Data file 2: /230531.b/230531.b/05312316ECD7.D  
Method: \\target\share\chem4\ecd7.i\230531.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: BLE0737-MS1  
Client ID:  
Injection Date: 31-MAY-2023 17:37  
Report Date: 06/01/2023 08:29  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.741   | -0.003 | 181814   | 5.623  | -0.010 | 122908   | 19.0   | 25.3 | 28.6          | Tetrachloro-m-xylene |
| 13.831  | -0.009 | 120408   | 14.060 | -0.010 | 133953   | 28.0   | 27.4 | 2.1           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |          |
|--------------------|----------------|-------------|----------|
| Standard Cpnd      | Standard Area* | Sample Area | %D       |
| Bromo-Nitrobenzene | 601474         | 636559      | 5.8      |
| Hexabromobiphenyl  | 876625         | 430233      | -50.9 <- |

| Column 2           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 349289         | 353327      | 1.2   |
| Hexabromobiphenyl  | 652984         | 343951      | -47.3 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |         |                   |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|---------|-------------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area    | Amount            |
| Aroclor-1016             | 1     | 7.208  | -0.005 | 65152  | 264.3    | 1                        | 7.198  | -0.008 | 89106   | 445.5             |
| Aroclor-1016             | 2     | 7.586  | -0.009 | 263516 | 341.9    | 2                        | 7.791  | -0.024 | 171089  | 401.4             |
| Aroclor-1016             | 3     | 7.723  | -0.011 | 81830  | 229.7    | 3                        | 7.990  | -0.024 | 78623   | 418.2             |
| Aroclor-1016             | 4     | 8.393  | -0.006 | 80615  | 548.4    | 4                        | 8.247  | -0.016 | 76100   | 509.6             |
| Total CollAve (4 peaks): |       |        |        | 346.1  |          | Total Col2Ave (4 peaks): |        |        |         | 443.7 RPD = 25    |
| Corrected Ave (3 peaks): |       |        |        | 278.6  |          | Corrected Ave (3 peaks): |        |        |         | 421.7 RPD = 41*   |
| Aroclor-1221             | 1     | 4.708  | 0.044  | 525886 | 11746.6  | 1                        | 4.880  | -0.014 | 6378    | 244.7             |
| Aroclor-1221             | 2     | 6.072  | 0.003  | 23721  | 264.1    | 2                        | 6.240  | -0.005 | 3080    | 57.0              |
| Aroclor-1221             | 3     | 6.318  | -0.003 | 59894  | 280.8    | 3                        | 6.580  | 0.008  | 66016   | 777.0             |
| Total CollAve (3 peaks): |       |        |        | 4097.2 |          | Total Col2Ave (3 peaks): |        |        |         | 359.6 RPD = 168*  |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |         |                   |
| Aroclor-1232             | 1     | 4.708  | 0.044  | 525886 | 17634.3  | 1                        | 4.880  | -0.014 | 6378    | 465.5             |
| Aroclor-1232             | 2     | 6.072  | 0.002  | 23721  | 382.3    | 2                        | 7.198  | -0.006 | 89106   | 1135.8            |
| Aroclor-1232             | 3     | 7.586  | -0.009 | 263516 | 891.4    | 3                        | 7.791  | -0.024 | 171089  | 1085.7            |
| Aroclor-1232             | 4     | 8.509  | -0.018 | 104176 | 823.3    | 4                        | 8.653  | -0.016 | 62791   | 1375.8            |
| Total CollAve (4 peaks): |       |        |        | 4932.8 |          | Total Col2Ave (4 peaks): |        |        |         | 1015.7 RPD = 132* |
| Corrected Ave (3 peaks): |       |        |        | 699.0  |          | Corrected Ave (3 peaks): |        |        |         | 895.7 RPD = 25    |
| Aroclor-1242             | 1     | 7.208  | -0.005 | 65152  | 324.8    | 1                        | 7.198  | -0.006 | 89106   | 564.3             |
| Aroclor-1242             | 2     | 7.586  | -0.008 | 263516 | 414.6    | 2                        | 7.791  | -0.018 | 171089  | 509.3             |
| Aroclor-1242             | 3     | 8.393  | -0.006 | 80615  | 655.7    | 3                        | 9.088  | -0.031 | 50309   | 467.1             |
| Aroclor-1242             | 4     | 8.509  | -0.015 | 104176 | 366.2    | 4                        | 9.507  | -0.043 | 78244   | 602.8             |
| Total CollAve (4 peaks): |       |        |        | 440.3  |          | Total Col2Ave (4 peaks): |        |        |         | 535.9 RPD = 20    |
| Corrected Ave (3 peaks): |       |        |        | 368.5  |          | Corrected Ave (3 peaks): |        |        |         | 513.6 RPD = 33    |
| Aroclor-1248             | 1     | 8.393  | -0.007 | 80615  | 496.2    | 1                        | 8.247  | -0.015 | 76100   | 452.7             |
| Aroclor-1248             | 2     | 8.509  | -0.016 | 104176 | 246.7    | 2                        | 8.653  | -0.016 | 62791   | 353.6             |
| Aroclor-1248             | 3     | 8.929  | -0.016 | 98478  | 121.3    | 3                        | 9.088  | -0.036 | 50309   | 241.7             |
| Aroclor-1248             | 4     | 9.233  | -0.007 | 115623 | 279.3    | 4                        | 9.507  | -0.044 | 78244   | 313.5             |
| Total CollAve (4 peaks): |       |        |        | 285.9  |          | Total Col2Ave (4 peaks): |        |        |         | 340.4 RPD = 17    |
| Corrected Ave (3 peaks): |       |        |        | 215.8  |          | Corrected Ave (3 peaks): |        |        |         | 303.0 RPD = 34    |
| Aroclor-1254             | 1     | 9.233  | -0.011 | 115623 | 176.7    | 1                        | 9.390  | -0.014 | 120727  | 449.7             |
| Aroclor-1254             | 2     | 9.314  | -0.010 | 137113 | 466.4    | 2                        | 9.507  | 0.008  | 78244   | 490.6             |
| Aroclor-1254             | 3     | 9.603  | -0.012 | 95196  | 225.4    | 3                        | 9.846  | -0.077 | 51575   | 237.0             |
| Aroclor-1254             | 4     | 9.775  | 0.021  | 188977 | 228.4    | 4                        | 10.025 | -0.052 | 5970393 | 12573.4           |
| Aroclor-1254             | 5     | 10.059 | -0.062 | 258298 | 517.0    | 5                        | 10.305 | -0.022 | 223993  | 475.5             |
| Total CollAve (5 peaks): |       |        |        | 322.8  |          | Total Col2Ave (5 peaks): |        |        |         | 2845.2 RPD = 159* |
| Corrected Ave (4 peaks): |       |        |        | 274.3  |          | Corrected Ave (4 peaks): |        |        |         | 413.2 RPD = 40*   |
| Aroclor-1260             | 1     | 10.979 | -0.015 | 116316 | 511.3    | 1                        | 11.592 | -0.015 | 111539  | 610.6             |
| Aroclor-1260             | 2     | 11.294 | -0.017 | 104909 | 467.3    | 2                        | 11.853 | -0.021 | 242831  | 508.2             |
| Aroclor-1260             | 3     | 11.665 | -0.020 | 283658 | 504.4    | 3                        | 12.371 | -0.019 | 83765   | 707.5             |
| Aroclor-1260             | 4     | 12.065 | -0.026 | 136288 | 494.9    | 4                        | 12.436 | -0.021 | 161648  | 506.5             |
| Aroclor-1260             | 5     | 12.180 | -0.013 | 55531  | 462.4    | NS                       | ---    |        |         | ----              |
| Total CollAve (5 peaks): |       |        |        | 488.0  |          | Total Col2Ave (4 peaks): |        |        |         | 583.2 RPD = 18    |
| Corrected Ave (4 peaks): |       |        |        | 482.2  |          | Corrected Ave (3 peaks): |        |        |         | 541.8 RPD = 12    |
| Aroclor-1262             | 1     | 10.753 | -0.025 | 309520 | 1590.3   | 1                        | 11.138 | -0.015 | 91754   | 329.2             |
| Aroclor-1262             | 2     | 12.180 | -0.014 | 55531  | 202.9    | 2                        | 11.592 | -0.013 | 111539  | 474.5             |
| Aroclor-1262             | 3     | 12.253 | -0.016 | 66674  | 226.6    | 3                        | 12.371 | -0.015 | 83765   | 326.1             |
| Aroclor-1262             | 4     | 12.918 | -0.020 | 61830  | 257.9    | 4                        | 12.436 | -0.020 | 161648  | 386.1             |
| Total CollAve (4 peaks): |       |        |        | 569.4  |          | Total Col2Ave (4 peaks): |        |        |         | 379.0 RPD = 40*   |
| Corrected Ave (3 peaks): |       |        |        | 229.1  |          | Corrected Ave (3 peaks): |        |        |         | 347.2 RPD = 41*   |
| Aroclor-1268             | 1     | 12.180 | -0.015 | 55531  | 80.9     | 1                        | 12.371 | -0.014 | 83765   | 128.7             |
| Aroclor-1268             | 2     | 12.253 | -0.015 | 66674  | 97.8     | 2                        | 12.436 | -0.016 | 161648  | 231.0             |
| Aroclor-1268             | 3     | 12.655 | 0.007  | 39420  | 71.9     | 3                        | 12.835 | -0.008 | 11422   | 19.1              |
| Aroclor-1268             | 4     | 13.424 | -0.014 | 21820  | 13.9     | 4                        | 13.648 | -0.015 | 29716   | 15.5              |
| Total CollAve (4 peaks): |       |        |        | 66.2   |          | Total Col2Ave (4 peaks): |        |        |         | 98.6 RPD = 39     |

Corrected Ave (3 peaks): 55.6      Corrected Ave (3 peaks): 54.4      RPD = 2

Total PCB Area Col1 (5.843 - 13.740) = 17875438      Col1 Total PCB = 2.5 ppm\*

Total PCB Area Col2 (5.733 - 13.970) = 15658790      Col2 Total PCB = 3.7 ppm\*

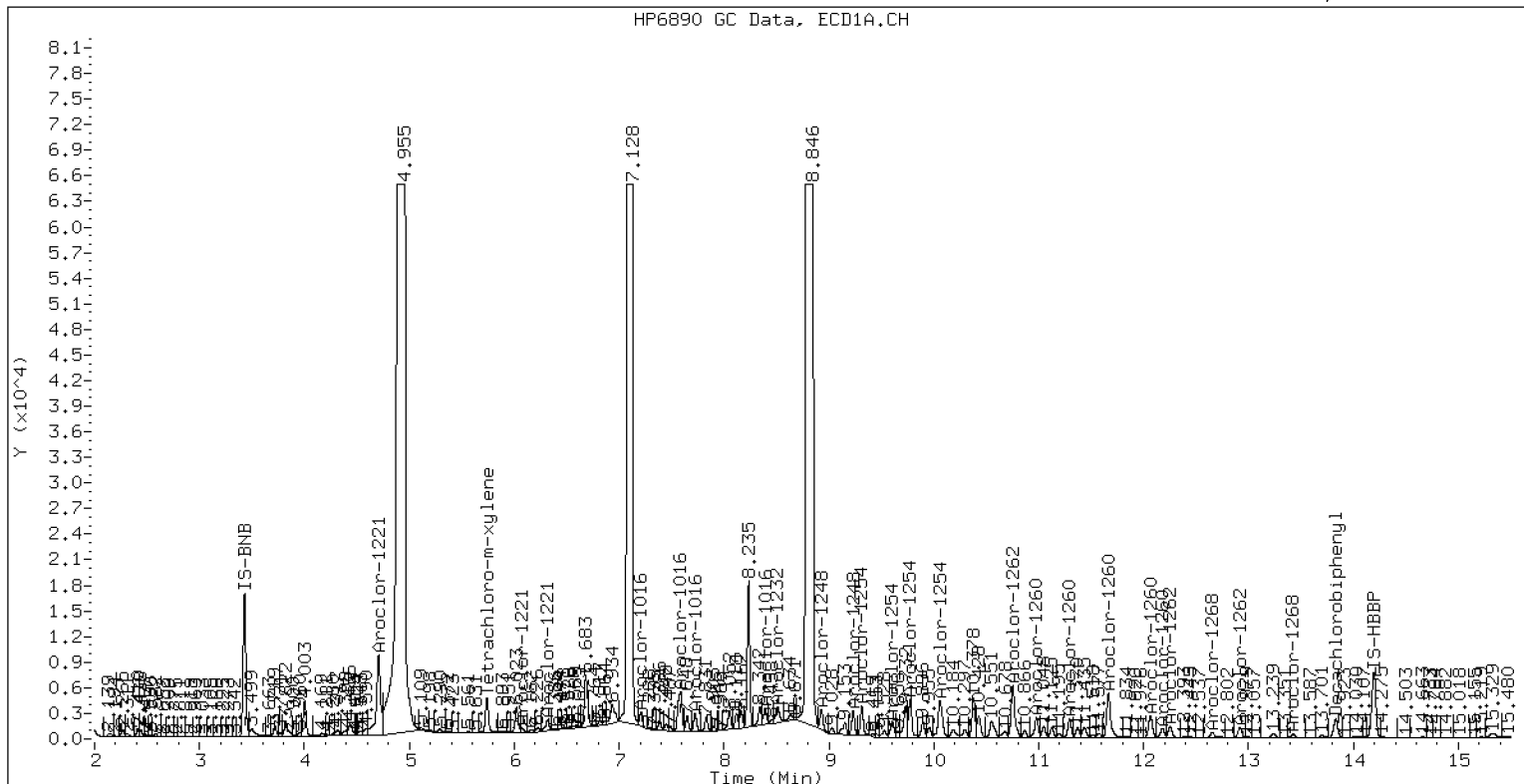
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 BLE0737-MS1

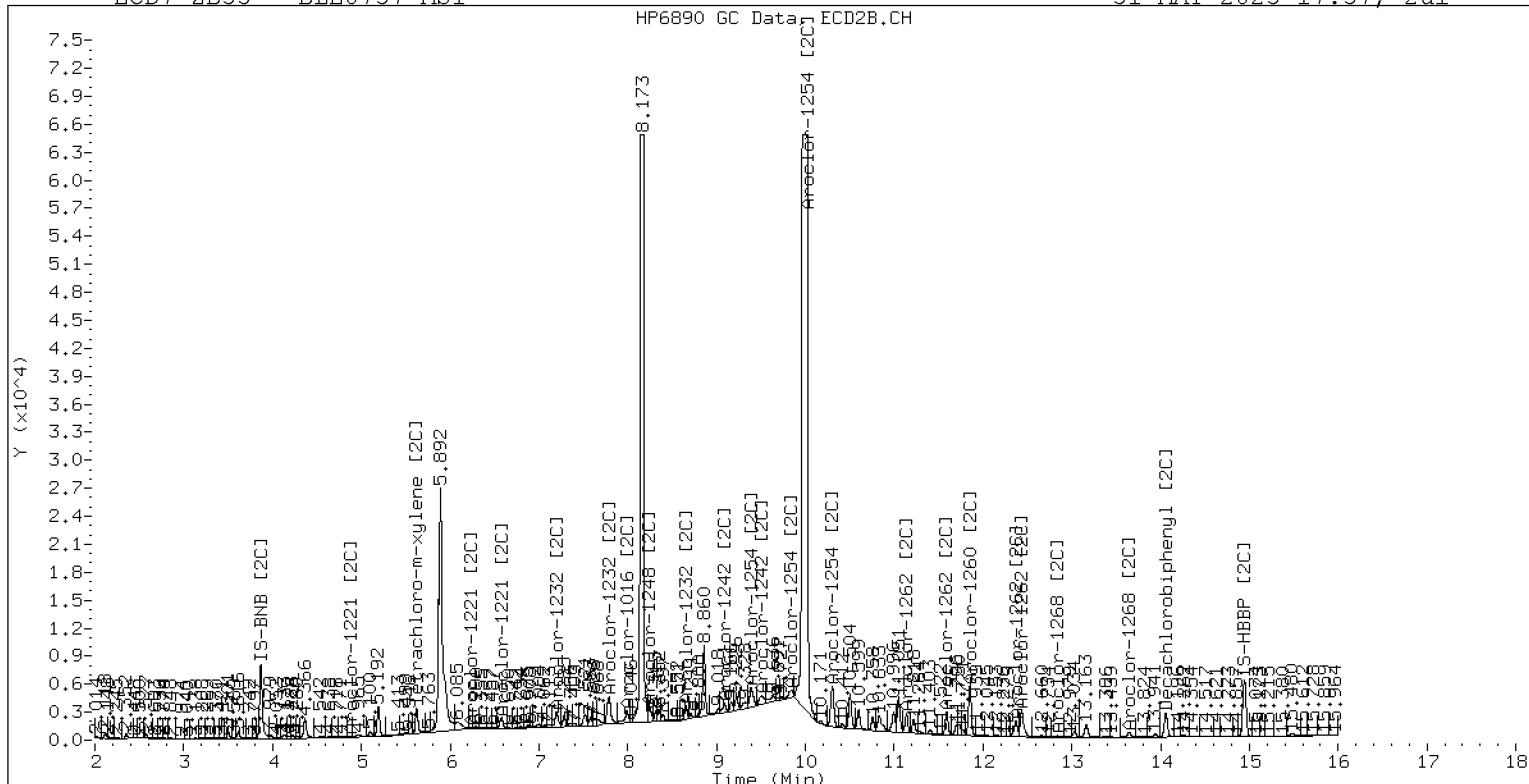
31-MAY-2023 17:37, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 BLE0737-MS1

31-MAY-2023 17:37, 2ul



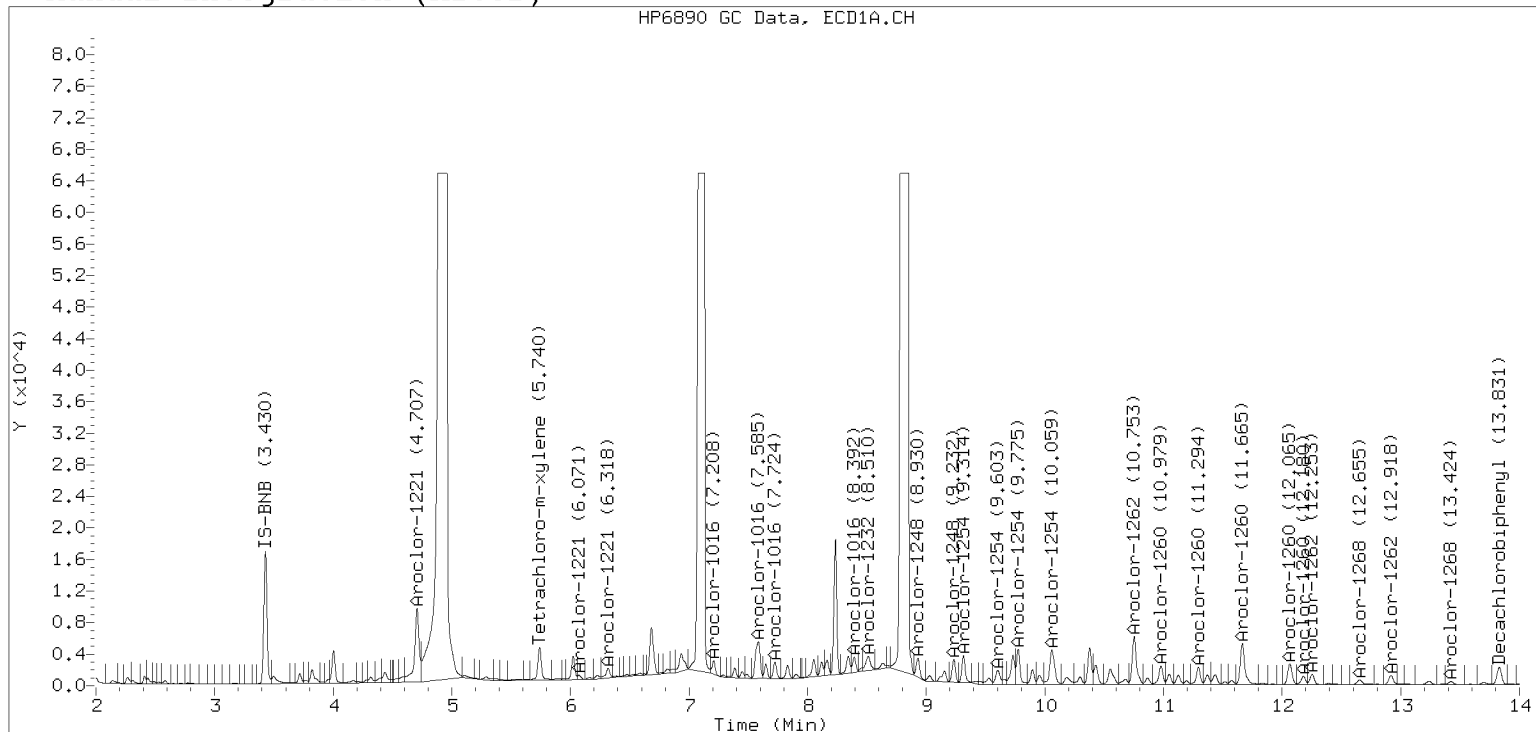
ZB-35 Manual Integration: YES

# Manual Peak Adjustment, ZB-5

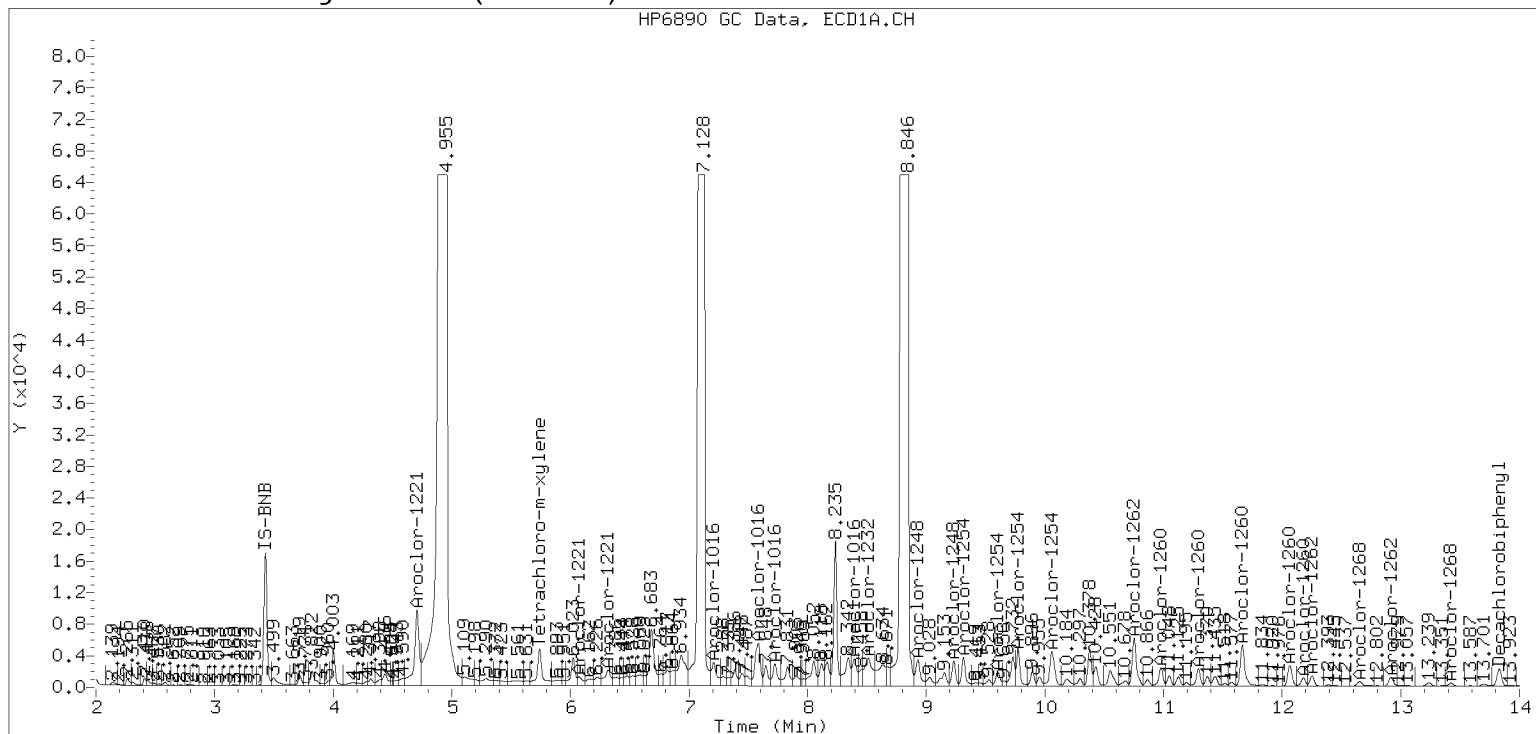
Datafile: ecd7.i/230531.b/05312316ECD7.D

Injection Date: 31-MAY-2023 17:37

## Manual Integration (After)



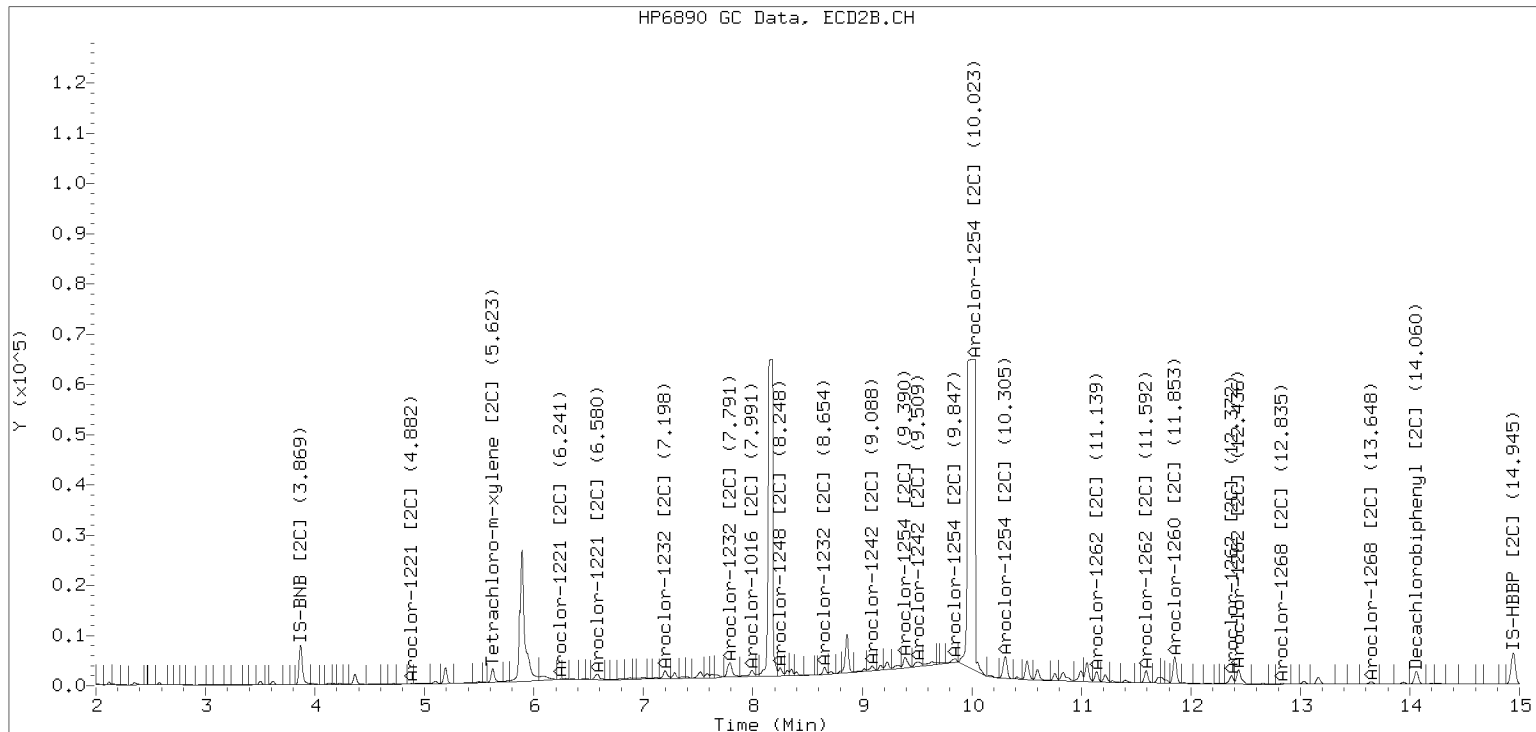
## Processed Integration (Before)



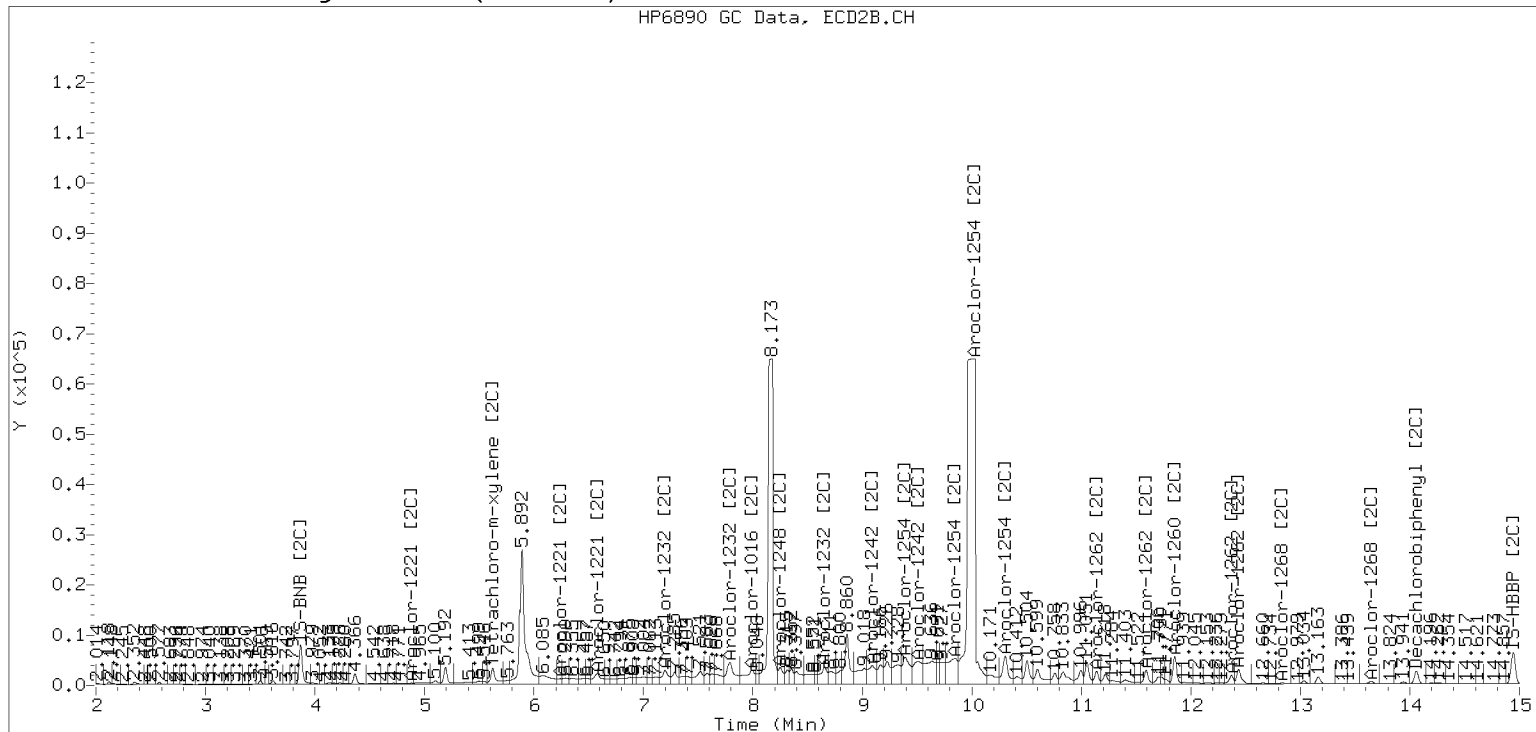
# Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230531.b/230531.b/05312316ECD7.D      Injection Date: 31-MAY-2023

## Manual Integration (After)



## Processed Integration (Before)





Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230531.b/05312317ECD7.D  
Data file 2: /230531.b/230531.b/05312317ECD7.D  
Method: \\target\share\chem4\ecd7.i\230531.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: BLE0737-MSD1  
Client ID:  
Injection Date: 31-MAY-2023 17:58  
Report Date: 06/01/2023 08:29  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.741   | -0.002 | 193446   | 5.624  | -0.009 | 130526   | 21.4   | 27.5 | 25.0          | Tetrachloro-m-xylene |
| 13.830  | -0.010 | 129023   | 14.061 | -0.008 | 146487   | 30.0   | 29.8 | 0.7           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |          |
|--------------------|----------------|-------------|----------|
| Standard Cpnd      | Standard Area* | Sample Area | %D       |
| Bromo-Nitrobenzene | 601474         | 601555      | 0.0      |
| Hexabromobiphenyl  | 876625         | 429869      | -51.0 <- |

| Column 2           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 349289         | 345518      | -1.1  |
| Hexabromobiphenyl  | 652984         | 345844      | -47.0 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |        |                   |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|-------------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area   | Amount            |
| Aroclor-1016             | 1     | 7.209  | -0.004 | 93859  | 403.0    | 1                        | 7.198  | -0.009 | 87450  | 447.1             |
| Aroclor-1016             | 2     | 7.586  | -0.009 | 260279 | 357.4    | 2                        | 7.790  | -0.024 | 157509 | 377.9             |
| Aroclor-1016             | 3     | 7.725  | -0.010 | 80855  | 240.1    | 3                        | 7.990  | -0.023 | 48310  | 262.8             |
| Aroclor-1016             | 4     | 8.392  | -0.007 | 76147  | 548.1    | 4                        | 8.249  | -0.014 | 63817  | 437.0             |
| Total CollAve (4 peaks): |       |        |        | 387.1  |          | Total Col2Ave (4 peaks): |        |        |        | 381.2 RPD = 2     |
| Corrected Ave (3 peaks): |       |        |        | 333.5  |          | Corrected Ave (3 peaks): |        |        |        | 359.2 RPD = 7     |
|                          |       |        |        |        |          |                          |        |        |        |                   |
| Aroclor-1221             | 1     | 4.707  | 0.044  | 415999 | 9832.8   | 1                        | 4.877  | -0.017 | 6481   | 254.3             |
| Aroclor-1221             | 2     | 6.072  | 0.003  | 18727  | 220.6    | 2                        | 6.240  | -0.005 | 11292  | 213.8             |
| Aroclor-1221             | 3     | 6.318  | -0.003 | 52872  | 262.3    | 3                        | 6.578  | 0.006  | 68169  | 820.5             |
| Total CollAve (3 peaks): |       |        |        | 3438.6 |          | Total Col2Ave (3 peaks): |        |        |        | 429.5 RPD = 156*  |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |        |                   |
|                          |       |        |        |        |          |                          |        |        |        |                   |
| Aroclor-1232             | 1     | 4.707  | 0.043  | 415999 | 14761.2  | 1                        | 4.877  | -0.017 | 6481   | 483.7             |
| Aroclor-1232             | 2     | 6.072  | 0.003  | 18727  | 319.4    | 2                        | 7.198  | -0.007 | 87450  | 1139.9            |
| Aroclor-1232             | 3     | 7.586  | -0.009 | 260279 | 931.7    | 3                        | 7.790  | -0.024 | 157509 | 1022.1            |
| Aroclor-1232             | 4     | 8.511  | -0.016 | 98684  | 825.3    | 4                        | 8.655  | -0.015 | 65909  | 1476.8            |
| Total CollAve (4 peaks): |       |        |        | 4209.4 |          | Total Col2Ave (4 peaks): |        |        |        | 1030.6 RPD = 121* |
| Corrected Ave (3 peaks): |       |        |        | 692.1  |          | Corrected Ave (3 peaks): |        |        |        | 881.9 RPD = 24    |
|                          |       |        |        |        |          |                          |        |        |        |                   |
| Aroclor-1242             | 1     | 7.209  | -0.004 | 93859  | 495.2    | 1                        | 7.198  | -0.007 | 87450  | 566.3             |
| Aroclor-1242             | 2     | 7.586  | -0.008 | 260279 | 433.3    | 2                        | 7.790  | -0.019 | 157509 | 479.5             |
| Aroclor-1242             | 3     | 8.392  | -0.007 | 76147  | 655.4    | 3                        | 9.089  | -0.031 | 49908  | 473.9             |
| Aroclor-1242             | 4     | 8.511  | -0.013 | 98684  | 367.0    | 4                        | 9.505  | -0.045 | 60822  | 479.2             |
| Total CollAve (4 peaks): |       |        |        | 487.7  |          | Total Col2Ave (4 peaks): |        |        |        | 499.7 RPD = 2     |
| Corrected Ave (3 peaks): |       |        |        | 431.8  |          | Corrected Ave (3 peaks): |        |        |        | 477.5 RPD = 10    |
|                          |       |        |        |        |          |                          |        |        |        |                   |
| Aroclor-1248             | 1     | 8.392  | -0.008 | 76147  | 495.9    | 1                        | 8.249  | -0.014 | 63817  | 388.2             |
| Aroclor-1248             | 2     | 8.511  | -0.014 | 98684  | 247.3    | 2                        | 8.655  | -0.015 | 65909  | 379.6             |
| Aroclor-1248             | 3     | 8.930  | -0.015 | 124891 | 162.8    | 3                        | 9.089  | -0.036 | 49908  | 245.2             |
| Aroclor-1248             | 4     | 9.233  | -0.007 | 126922 | 324.5    | 4                        | 9.505  | -0.047 | 60822  | 249.2             |
| Total CollAve (4 peaks): |       |        |        | 307.6  |          | Total Col2Ave (4 peaks): |        |        |        | 315.6 RPD = 3     |
| Corrected Ave (3 peaks): |       |        |        | 244.9  |          | Corrected Ave (3 peaks): |        |        |        | 291.3 RPD = 17    |
|                          |       |        |        |        |          |                          |        |        |        |                   |
| Aroclor-1254             | 1     | 9.233  | -0.011 | 126922 | 205.3    | 1                        | 9.390  | -0.014 | 104003 | 396.2             |
| Aroclor-1254             | 2     | 9.315  | -0.009 | 250925 | 903.3    | 2                        | 9.505  | 0.006  | 60822  | 390.0             |
| Aroclor-1254             | 3     | 9.602  | -0.013 | 88563  | 221.9    | 3                        | 9.908  | -0.015 | 72064  | 338.7             |
| Aroclor-1254             | 4     | 9.731  | -0.022 | 169050 | 216.2    | 4                        | 10.053 | -0.024 | 143978 | 310.1             |
| Aroclor-1254             | 5     | 10.060 | -0.062 | 252241 | 534.2    | 5                        | 10.303 | -0.024 | 295603 | 641.6             |
| Total CollAve (5 peaks): |       |        |        | 416.2  |          | Total Col2Ave (5 peaks): |        |        |        | 415.3 RPD = 0     |
| Corrected Ave (4 peaks): |       |        |        | 294.4  |          | Corrected Ave (4 peaks): |        |        |        | 358.7 RPD = 20    |
|                          |       |        |        |        |          |                          |        |        |        |                   |
| Aroclor-1260             | 1     | 10.979 | -0.014 | 120242 | 529.0    | 1                        | 11.592 | -0.015 | 121225 | 660.0             |
| Aroclor-1260             | 2     | 11.294 | -0.017 | 107809 | 480.6    | 2                        | 11.855 | -0.019 | 259542 | 540.2             |
| Aroclor-1260             | 3     | 11.665 | -0.020 | 284214 | 505.9    | 3                        | 12.373 | -0.017 | 87746  | 737.0             |
| Aroclor-1260             | 4     | 12.065 | -0.026 | 142404 | 517.5    | 4                        | 12.436 | -0.021 | 171475 | 534.3             |
| Aroclor-1260             | 5     | 12.179 | -0.014 | 57766  | 481.4    | NS                       | ---    |        |        | ----              |
| Total CollAve (5 peaks): |       |        |        | 502.9  |          | Total Col2Ave (4 peaks): |        |        |        | 617.9 RPD = 21    |
| Corrected Ave (4 peaks): |       |        |        | 496.3  |          | Corrected Ave (3 peaks): |        |        |        | 578.2 RPD = 15    |
|                          |       |        |        |        |          |                          |        |        |        |                   |
| Aroclor-1262             | 1     | 10.753 | -0.026 | 327884 | 1686.0   | 1                        | 11.139 | -0.015 | 90531  | 323.1             |
| Aroclor-1262             | 2     | 12.179 | -0.015 | 57766  | 211.2    | 2                        | 11.592 | -0.013 | 121225 | 512.9             |
| Aroclor-1262             | 3     | 12.253 | -0.016 | 69742  | 237.2    | 3                        | 12.373 | -0.013 | 87746  | 339.8             |
| Aroclor-1262             | 4     | 12.919 | -0.020 | 63764  | 266.2    | 4                        | 12.436 | -0.019 | 171475 | 407.4             |
| Total CollAve (4 peaks): |       |        |        | 600.2  |          | Total Col2Ave (4 peaks): |        |        |        | 395.8 RPD = 41*   |
| Corrected Ave (3 peaks): |       |        |        | 238.2  |          | Corrected Ave (3 peaks): |        |        |        | 356.7 RPD = 40    |
|                          |       |        |        |        |          |                          |        |        |        |                   |
| Aroclor-1268             | 1     | 12.179 | -0.016 | 57766  | 84.3     | 1                        | 12.373 | -0.012 | 87746  | 134.1             |
| Aroclor-1268             | 2     | 12.253 | -0.015 | 69742  | 102.4    | 2                        | 12.436 | -0.016 | 171475 | 243.7             |
| Aroclor-1268             | 3     | 12.654 | 0.006  | 40860  | 74.6     | 3                        | 12.836 | -0.007 | 8444   | 14.0              |
| Aroclor-1268             | 4     | 13.425 | -0.012 | 23168  | 14.8     | 4                        | 13.648 | -0.015 | 29296  | 15.2              |
| Total CollAve (4 peaks): |       |        |        | 69.0   |          | Total Col2Ave (4 peaks): |        |        |        | 101.7 RPD = 38    |

Corrected Ave (3 peaks): 57.9      Corrected Ave (3 peaks): 54.4      RPD = 6

Total PCB Area Col1 (5.843 - 13.740) = 16805530      Col1 Total PCB = 2.5 ppm\*  
Total PCB Area Col2 (5.733 - 13.970) = 12204492      Col2 Total PCB = 3.0 ppm\*

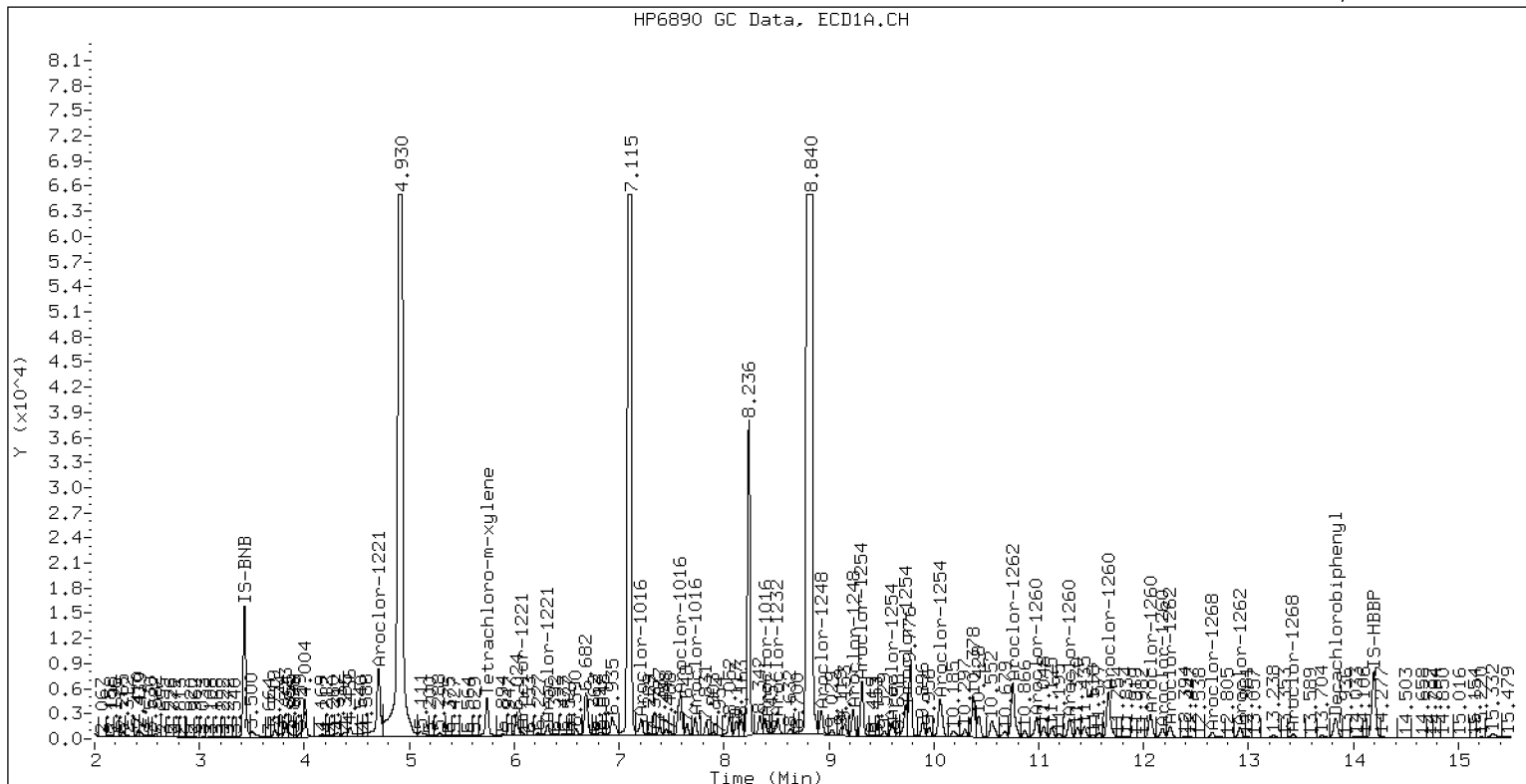
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 BLE0737-MSD1

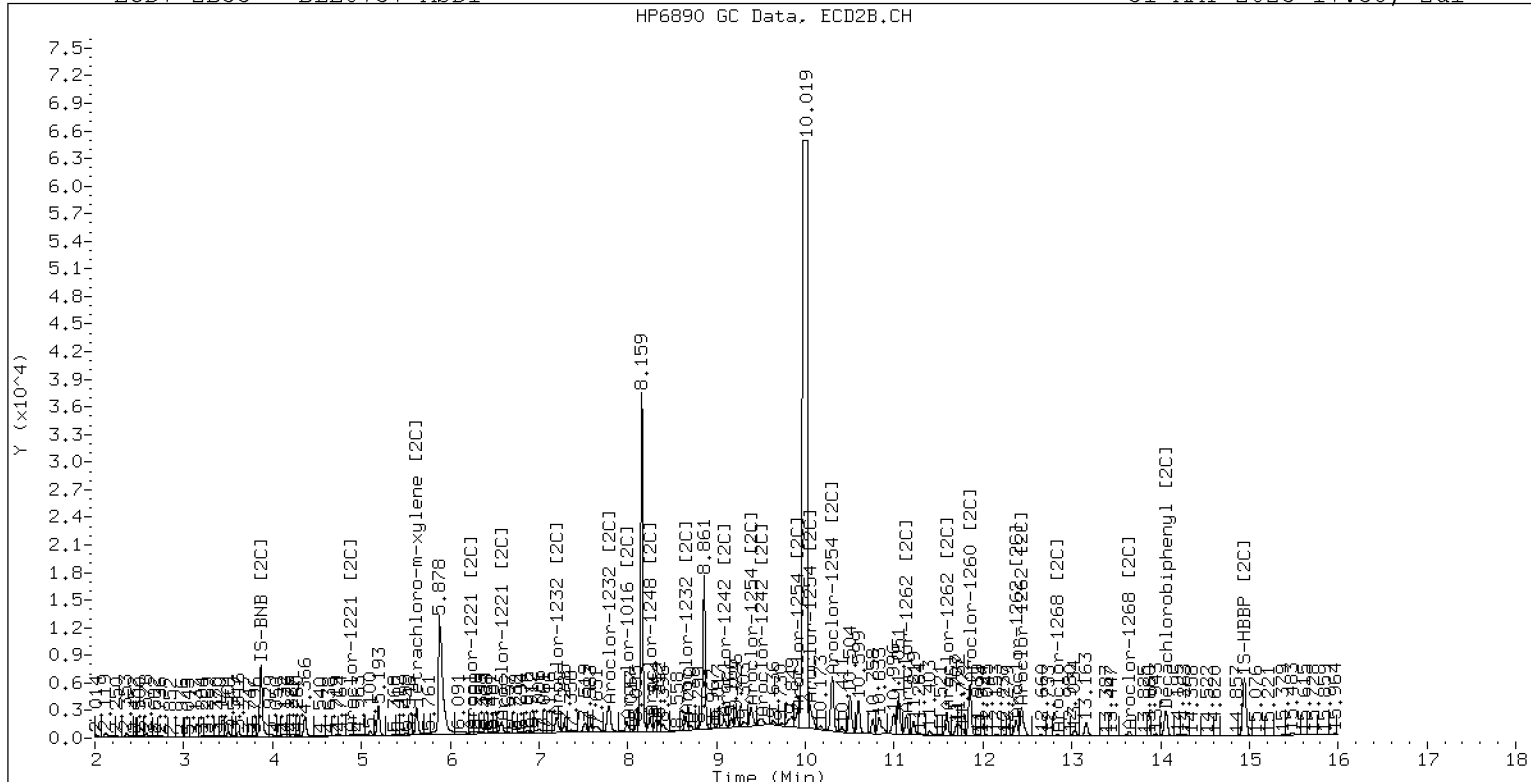
31-MAY-2023 17:58, 2u1



ZB-5 Manual Integration: YES

ECD7-ZB35 BLE0737-MSD1

31-MAY-2023 17:58, 2u1



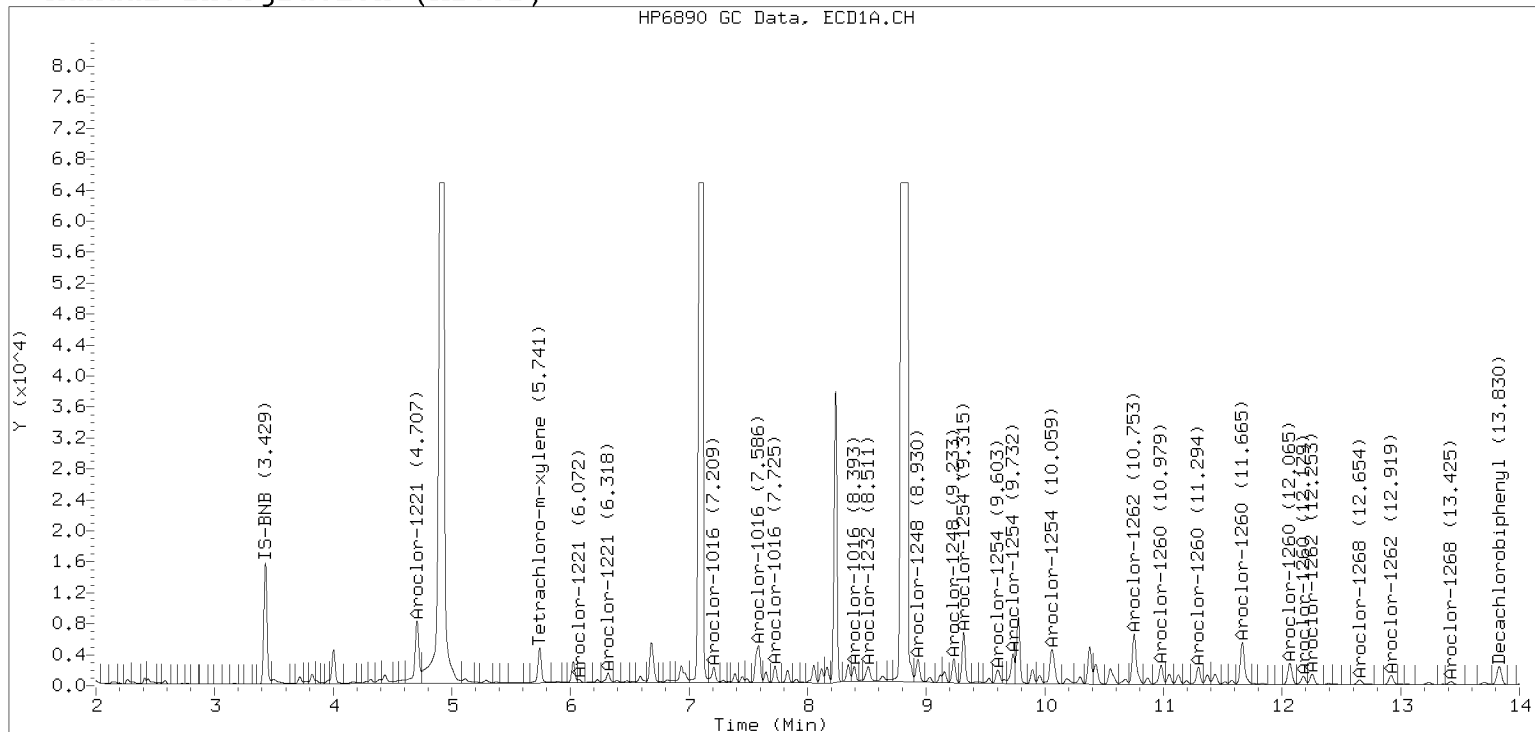
ZB-35 Manual Integration: YES

# Manual Peak Adjustment, ZB-5

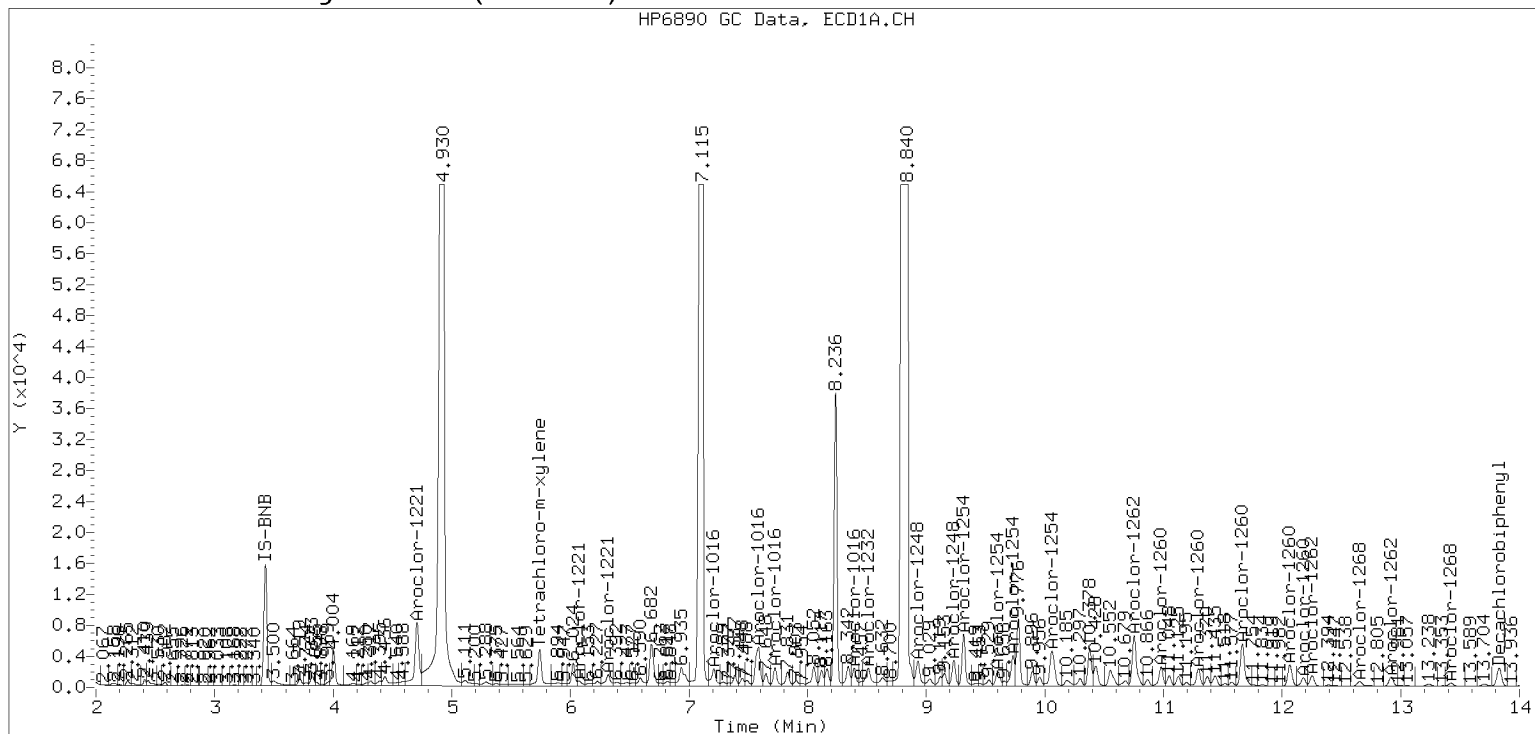
Datafile: ecd7.i/230531.b/05312317ECD7.D

Injection Date: 31-MAY-2023 17:58

## Manual Integration (After)



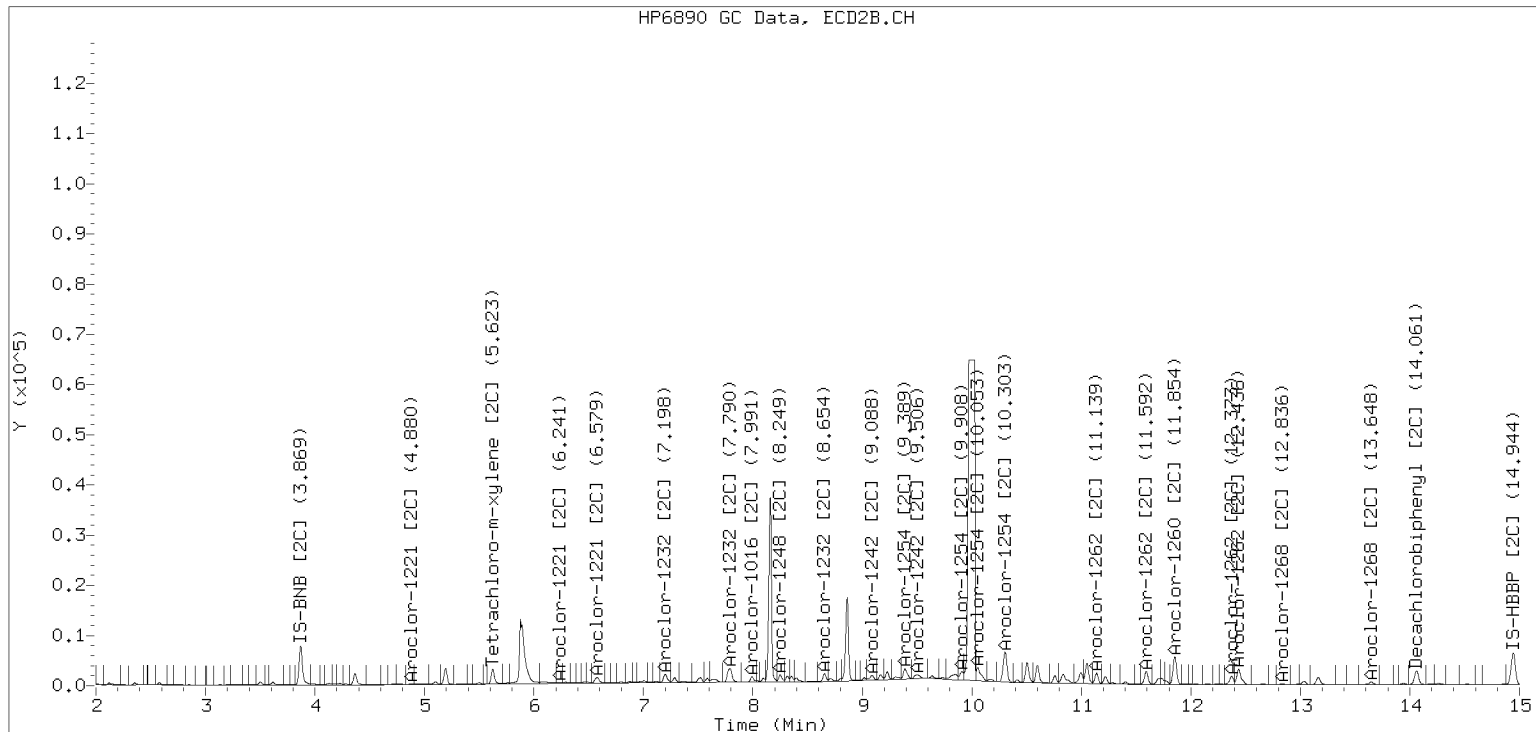
## Processed Integration (Before)



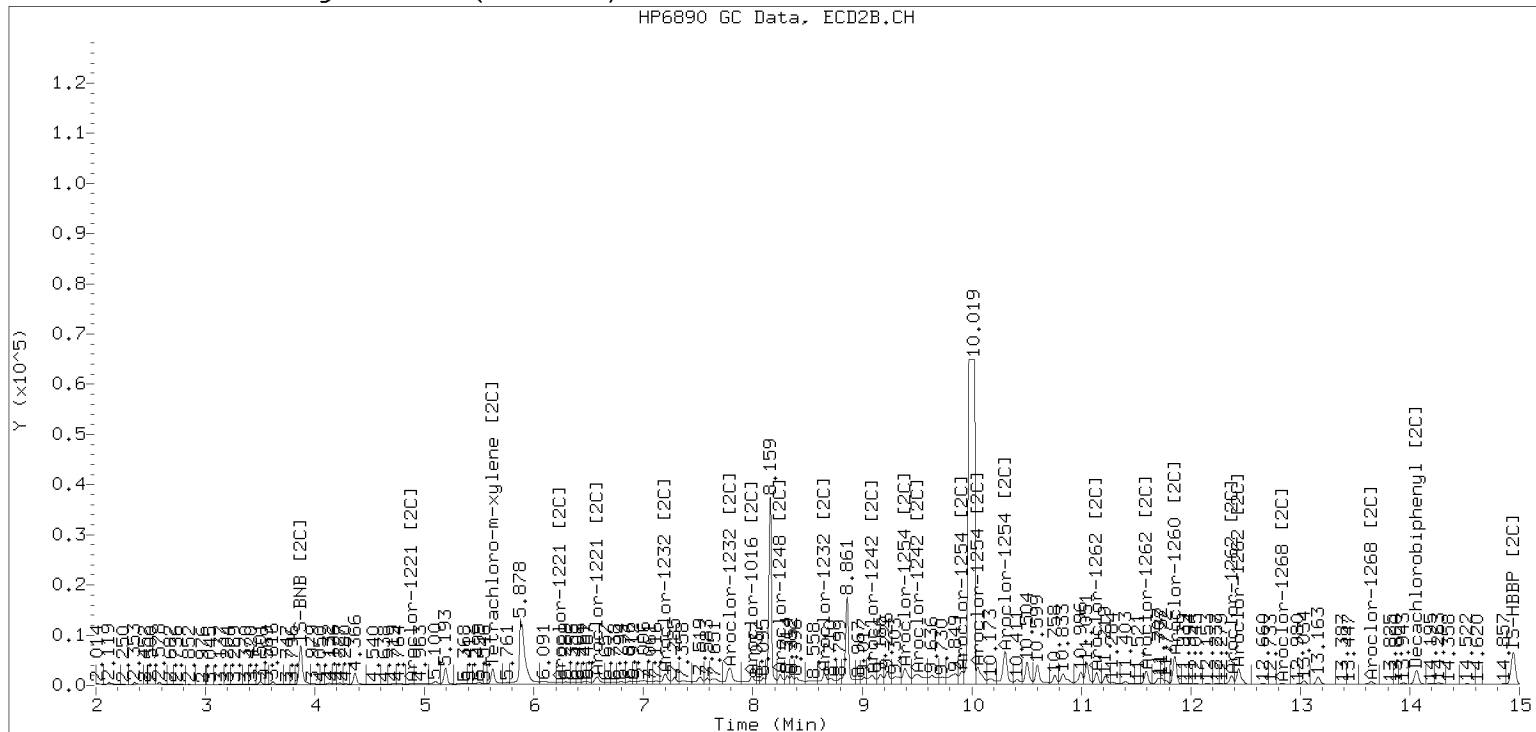
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230531.b/230531.b/05312317ECD7.D Injection Date: 31-MAY-2023

Manual Integration (After)



Processed Integration (Before)





## STANDARD REFERENCE MATERIAL RECOVERY

EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: BLA0558-SRM1

Batch: BLA0558

Initial/Final: 2.5 g / 2.5 mL

Preparation: EPA 3546 (Microwave)

Analyzed: 02/04/2023 21:53

Standard ID: K011478

Expires: 06/11/2023

Standard Lot#: PSRM0169

Description: Puget Sound reference-SRM

| ANALYTE           | TRUE<br>(ug/kg wet) | FOUND<br>(ug/kg wet) | MDL | MRL  | Q | SRM<br>%<br>REC. | QC<br>LIMITS<br>REC. |
|-------------------|---------------------|----------------------|-----|------|---|------------------|----------------------|
| Aroclor 1260      | 108.00              | 103                  | 2.9 | 20.0 |   | 95.3             | 38 - 167             |
| Aroclor 1260 [2C] | 108.00              | 153                  | 2.9 | 20.0 |   | 142              | 38 - 167             |

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042318ECD7.D  
Data file 2: /230204.b/230204.b/02042318ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: BLA0558-SRM1  
Client ID:  
Injection Date: 04-FEB-2023 21:53  
Report Date: 02/06/2023 16:43  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.806   | -0.000 | 205809   | 5.682  | -0.002 | 167148   | 32.0   | 34.7 | 8.1           | Tetrachloro-m-xylene |
| 13.886  | -0.003 | 200181   | 14.114 | -0.002 | 209396   | 31.5   | 29.2 | 7.6           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 454698      | -9.7 |
| Hexabromobiphenyl  | 647433         | 594837      | -8.1 |

| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 356107      | 5.7  |
| Hexabromobiphenyl  | 382032         | 452443      | 18.4 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                  |       |        |        |       |                          | ZB35 Col |        |        |       |            |  |
|--------------------------|-------|--------|--------|-------|--------------------------|----------|--------|--------|-------|------------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area  | Amount                   | Peak#    | RT     | Shift  | Area  | Amount     |  |
| Aroclor-1016             | 1     | 7.303  | 0.036  | 1905  | 11.3                     | 1        | 7.255  | 0.004  | 8737  | 45.2       |  |
| Aroclor-1016             | 2     | 7.644  | -0.003 | 10166 | 18.2                     | 2        | 7.842  | -0.005 | 13496 | 31.9       |  |
| Aroclor-1016             | 3     | 7.785  | 0.000  | 5698  | 22.1                     | 3        | 8.044  | -0.003 | 3027  | 17.5       |  |
| Aroclor-1016             | 4     | 8.398  | -0.002 | 7202  | 43.5                     | 4        | 8.299  | -0.002 | 8917  | 65.9       |  |
| Total CollAve (4 peaks): |       |        |        | 23.8  | Total Col2Ave (4 peaks): |          |        |        | 40.1  | RPD = 51*  |  |
| Corrected Ave (3 peaks): |       |        |        | 17.2  | Corrected Ave (3 peaks): |          |        |        | 31.5  | RPD = 59*  |  |
| Aroclor-1221             | 1     | 4.782  | 0.049  | 295   | 8.8                      | 1        | 4.944  | -0.015 | 1051  | 40.3       |  |
| Aroclor-1221             | 2     | 6.222  | 0.088  | 1657  | 24.1                     | 2        | 6.339  | 0.041  | 9851  | 172.2      |  |
| Aroclor-1221             | 3     | 6.384  | -0.000 | 4151  | 26.0                     | 3        | 6.637  | 0.014  | 5239  | 54.3       |  |
| Total CollAve (3 peaks): |       |        |        | 19.6  | Total Col2Ave (3 peaks): |          |        |        | 88.9  | RPD = 128* |  |
| Corrected Ave: < 3 Peaks |       |        |        |       | Corrected Ave: < 3 Peaks |          |        |        |       |            |  |
| Aroclor-1232             | 1     | 4.782  | 0.049  | 295   | 14.1                     | 1        | 4.944  | -0.016 | 1051  | 66.4       |  |
| Aroclor-1232             | 2     | 6.222  | 0.088  | 1657  | 35.0                     | 2        | 7.255  | -0.001 | 8737  | 98.6       |  |
| Aroclor-1232             | 3     | 7.644  | -0.014 | 10166 | 43.0                     | 3        | 7.842  | -0.012 | 13496 | 74.8       |  |
| Aroclor-1232             | 4     | 8.566  | -0.018 | 5262  | 52.0                     | 4        | 8.705  | -0.008 | 7094  | 141.5      |  |
| Total CollAve (4 peaks): |       |        |        | 36.0  | Total Col2Ave (4 peaks): |          |        |        | 95.3  | RPD = 90*  |  |
| Corrected Ave (3 peaks): |       |        |        | 30.7  | Corrected Ave (3 peaks): |          |        |        | 79.9  | RPD = 89*  |  |
| Aroclor-1242             | 1     | 7.303  | 0.035  | 1905  | 13.7                     | 1        | 7.255  | 0.004  | 8737  | 56.1       |  |
| Aroclor-1242             | 2     | 7.644  | -0.003 | 10166 | 22.3                     | 2        | 7.842  | -0.005 | 13496 | 39.0       |  |
| Aroclor-1242             | 3     | 8.398  | -0.003 | 7202  | 53.2                     | 3        | 9.141  | -0.010 | 8740  | 80.7       |  |
| Aroclor-1242             | 4     | 8.566  | -0.008 | 5262  | 25.7                     | 4        | 9.534  | -0.043 | 13508 | 94.1       |  |
| Total CollAve (4 peaks): |       |        |        | 28.7  | Total Col2Ave (4 peaks): |          |        |        | 67.5  | RPD = 81*  |  |
| Corrected Ave (3 peaks): |       |        |        | 20.6  | Corrected Ave (3 peaks): |          |        |        | 58.6  | RPD = 96*  |  |
| Aroclor-1248             | 1     | 8.398  | -0.002 | 7202  | 31.7                     | 1        | 8.299  | -0.003 | 8917  | 55.4       |  |
| Aroclor-1248             | 2     | 8.566  | -0.007 | 5262  | 18.1                     | 2        | 8.705  | -0.004 | 7094  | 40.9       |  |
| Aroclor-1248             | 3     | 8.987  | -0.004 | 20808 | 37.5                     | 3        | 9.141  | -0.010 | 8740  | 41.3       |  |
| Aroclor-1248             | 4     | 9.287  | -0.003 | 28745 | 104.6                    | 4        | 9.534  | -0.041 | 13508 | 51.6       |  |
| Total CollAve (4 peaks): |       |        |        | 48.0  | Total Col2Ave (4 peaks): |          |        |        | 47.3  | RPD = 1    |  |
| Corrected Ave (3 peaks): |       |        |        | 29.1  | Corrected Ave (3 peaks): |          |        |        | 44.6  | RPD = 42*  |  |
| Aroclor-1254             | 1     | 9.287  | -0.005 | 28745 | 62.0                     | 1        | 9.438  | -0.004 | 22140 | 85.7       |  |
| Aroclor-1254             | 2     | 9.363  | -0.007 | 9238  | 46.7                     | 2        | 9.957  | -0.005 | 10436 | 50.0       |  |
| Aroclor-1254             | 3     | 9.657  | -0.003 | 16523 | 55.6                     | 3        | 10.108 | -0.006 | 42822 | 94.0       |  |
| Aroclor-1254             | 4     | 9.788  | -0.010 | 38546 | 66.3                     | 4        | 10.359 | -0.004 | 55325 | 121.5      |  |
| Aroclor-1254             | 5     | 10.111 | -0.047 | 64171 | 169.6                    | 5        | 10.554 | -0.007 | 54789 | 216.0      |  |
| Total CollAve (5 peaks): |       |        |        | 80.0  | Total Col2Ave (5 peaks): |          |        |        | 113.4 | RPD = 34   |  |
| Corrected Ave (4 peaks): |       |        |        | 57.7  | Corrected Ave (4 peaks): |          |        |        | 87.8  | RPD = 41*  |  |
| Aroclor-1260             | 1     | 11.034 | -0.004 | 37714 | 113.0                    | 1        | 11.644 | -0.004 | 37634 | 115.3      |  |
| Aroclor-1260             | 2     | 11.347 | -0.008 | 31795 | 92.7                     | 2        | 11.904 | -0.007 | 88567 | 107.3      |  |
| Aroclor-1260             | 3     | 11.720 | -0.008 | 85645 | 94.8                     | 3        | 12.407 | -0.023 | 57653 | 280.1      |  |
| Aroclor-1260             | 4     | 12.121 | -0.010 | 51553 | 110.5                    | 4        | 12.488 | -0.007 | 58650 | 109.7      |  |
| Aroclor-1260             | 5     | 12.235 | -0.004 | 21083 | 103.6                    | NS       | ---    |        |       | ----       |  |
| Total CollAve (5 peaks): |       |        |        | 102.9 | Total Col2Ave (4 peaks): |          |        |        | 153.1 | RPD = 39   |  |
| Corrected Ave (4 peaks): |       |        |        | 100.4 | Corrected Ave (3 peaks): |          |        |        | 110.8 | RPD = 10   |  |
| Aroclor-1262             | 1     | 10.809 | -0.023 | 85038 | 353.5                    | 1        | 11.190 | -0.011 | 34651 | 78.3       |  |
| Aroclor-1262             | 2     | 12.235 | -0.011 | 21083 | 55.5                     | 2        | 11.644 | -0.009 | 37634 | 99.9       |  |
| Aroclor-1262             | 3     | 12.308 | -0.013 | 25031 | 60.7                     | 3        | 12.407 | -0.027 | 57653 | 143.8      |  |
| Aroclor-1262             | 4     | 12.971 | -0.018 | 33633 | 89.5                     | 4        | 12.488 | -0.015 | 58650 | 91.3       |  |
| Total CollAve (4 peaks): |       |        |        | 139.8 | Total Col2Ave (4 peaks): |          |        |        | 103.3 | RPD = 30   |  |
| Corrected Ave (3 peaks): |       |        |        | 68.6  | Corrected Ave (3 peaks): |          |        |        | 89.8  | RPD = 27   |  |
| Aroclor-1268             | 1     | 12.235 | -0.010 | 21083 | 21.5                     | 1        | 12.407 | -0.026 | 57653 | 54.6       |  |
| Aroclor-1268             | 2     | 12.308 | -0.010 | 25031 | 25.5                     | 2        | 12.488 | -0.013 | 58650 | 52.2       |  |
| Aroclor-1268             | 3     | 12.711 | 0.012  | 11786 | 14.5                     | 3        | 12.887 | -0.006 | 1614  | 1.7        |  |
| Aroclor-1268             | 4     | 13.479 | -0.010 | 5573  | 2.3                      | 4        | 13.658 | -0.050 | 17651 | 6.1        |  |
| Total CollAve (4 peaks): |       |        |        | 16.0  | Total Col2Ave (4 peaks): |          |        |        | 28.6  | RPD = 57*  |  |

Corrected Ave (3 peaks): 12.8      Corrected Ave (3 peaks): 20.0      RPD = 44\*

Total PCB Area Col1 (5.906 - 13.788) = 1209917      Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.784 - 14.016) = 1037732      Col2 Total PCB = 0.3 ppm\*

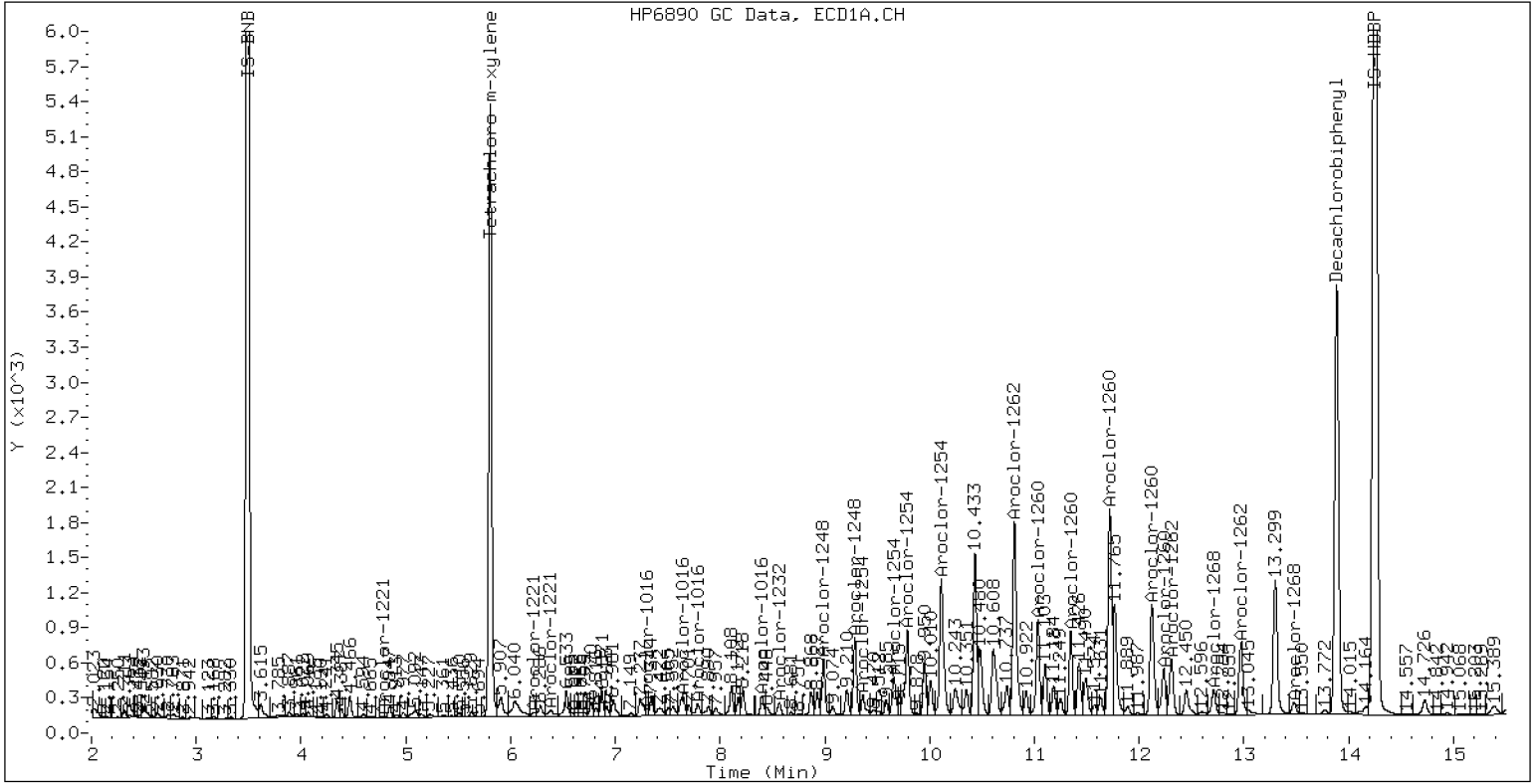
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 BLA0558-SRM1

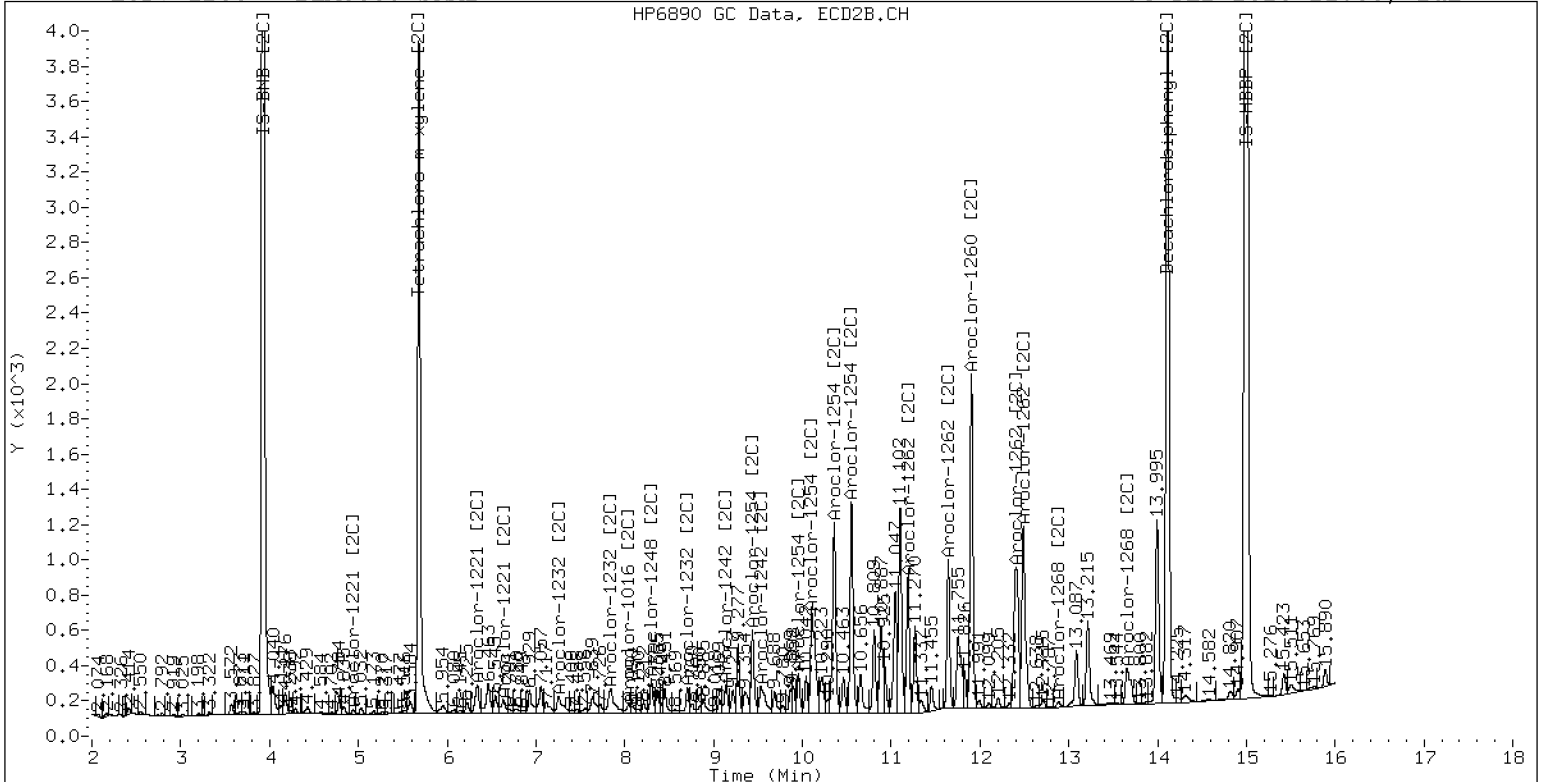
04-FEB-2023 21:53, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 BLA0558-SRM1

04-FEB-2023 21:53, 2u1



ZB-35 Manual Integration: NO



## STANDARD REFERENCE MATERIAL RECOVERY

### EPA 8082A

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Matrix:** Solid

**Laboratory ID:** BLE0737-SRM1

**Batch:** BLE0737

**Initial/Final:** 2.5 g / 2.5 mL

**Preparation:** EPA 3546 (Microwave)

**Analyzed:** 05/31/2023 16:55

**Standard ID:** K003527

**Expires:** 04/12/2023

**Standard Lot#:** PSRM0150

**Description:** Puget Sound reference-SRM

| ANALYTE           | TRUE<br>(ug/kg wet) | FOUND<br>(ug/kg wet) | MDL | MRL  | Q | SRM<br>%<br>REC. | QC<br>LIMITS<br>REC. |
|-------------------|---------------------|----------------------|-----|------|---|------------------|----------------------|
| Aroclor 1260      | 108.00              | 96.9                 | 2.9 | 20.0 |   | 89.8             | 38 - 167             |
| Aroclor 1260 [2C] | 108.00              | 111                  | 2.9 | 20.0 |   | 103              | 38 - 167             |

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230531.b/05312314ECD7.D  
Data file 2: /230531.b/230531.b/05312314ECD7.D  
Method: \\target\share\chem4\ecd7.i\230531.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: BLE0737-SRM1  
Client ID:  
Injection Date: 31-MAY-2023 16:55  
Report Date: 06/01/2023 08:29  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.741   | -0.002 | 284166   | 5.628  | -0.005 | 157426   | 28.0   | 28.6 | 2.1           | Tetrachloro-m-xylene |
| 13.834  | -0.006 | 269341   | 14.063 | -0.007 | 250363   | 32.4   | 30.5 | 6.0           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 673380      | 12.0 |
| Hexabromobiphenyl  | 876625         | 831729      | -5.1 |

| Column 2           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 349289         | 399780      | 14.5  |
| Hexabromobiphenyl  | 652984         | 577393      | -11.6 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col                 |       |        |        |       |           |  |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|-------|-----------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                   | Peak# | RT     | Shift  | Area  | Amount    |  |
| Aroclor-1016             | 1     | 7.182  | -0.031 | 8678   | 33.3                     | 1     | 7.208  | 0.001  | 4020  | 17.8      |  |
| Aroclor-1016             | 2     | 7.591  | -0.004 | 10029  | 12.3                     | 2     | 7.803  | -0.012 | 7529  | 15.6      |  |
| Aroclor-1016             | 3     | 7.734  | -0.000 | 4551   | 12.1                     | 3     | 7.999  | -0.015 | 1069  | 5.0       |  |
| Aroclor-1016             | 4     | 8.395  | -0.003 | 4581   | 29.5                     | 4     | 8.254  | -0.009 | 5875  | 34.8      |  |
| Total CollAve (4 peaks): |       |        |        | 21.8   | Total Col2Ave (4 peaks): |       |        |        | 18.3  | RPD = 17  |  |
| Corrected Ave (3 peaks): |       |        |        | 17.9   | Corrected Ave (3 peaks): |       |        |        | 12.8  | RPD = 33  |  |
| Aroclor-1221             | 1     | ---    |        |        | 0.0                      | 1     | 4.880  | -0.014 | 741   | 25.1      |  |
| Aroclor-1221             | 2     | 6.020  | -0.049 | 3995   | 42.0                     | 2     | 6.291  | 0.046  | 4861  | 79.5      |  |
| Aroclor-1221             | 3     | 6.326  | 0.006  | 2325   | 10.3                     | 3     | 6.585  | 0.014  | 2173  | 22.6      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave:                 |       |        |        | 42.4  |           |  |
| Aroclor-1232             | 1     | ---    |        |        | 0.0                      | 1     | 4.880  | -0.014 | 741   | 47.8      |  |
| Aroclor-1232             | 2     | 6.020  | -0.049 | 3995   | 60.9                     | 2     | 7.208  | 0.003  | 4020  | 45.3      |  |
| Aroclor-1232             | 3     | 7.591  | -0.003 | 10029  | 32.1                     | 3     | 7.803  | -0.012 | 7529  | 42.2      |  |
| Aroclor-1232             | 4     | 8.515  | -0.012 | 8249   | 61.6                     | 4     | 8.660  | -0.009 | 4616  | 89.4      |  |
| Total CollAve (3 peaks): |       |        |        | 51.5   | Total Col2Ave (4 peaks): |       |        |        | 56.2  | RPD = 9   |  |
| Corrected Ave: < 3 Peaks |       |        |        |        | Corrected Ave (3 peaks): |       |        |        | 45.1  |           |  |
| Aroclor-1242             | 1     | 7.182  | -0.030 | 8678   | 40.9                     | 1     | 7.208  | 0.003  | 4020  | 22.5      |  |
| Aroclor-1242             | 2     | 7.591  | -0.003 | 10029  | 14.9                     | 2     | 7.803  | -0.006 | 7529  | 19.8      |  |
| Aroclor-1242             | 3     | 8.395  | -0.003 | 4581   | 35.2                     | 3     | 9.099  | -0.020 | 6477  | 53.2      |  |
| Aroclor-1242             | 4     | 8.515  | -0.010 | 8249   | 27.4                     | 4     | 9.520  | -0.030 | 5452  | 37.1      |  |
| Total CollAve (4 peaks): |       |        |        | 29.6   | Total Col2Ave (4 peaks): |       |        |        | 33.1  | RPD = 11  |  |
| Corrected Ave (3 peaks): |       |        |        | 25.8   | Corrected Ave (3 peaks): |       |        |        | 26.5  | RPD = 2   |  |
| Aroclor-1248             | 1     | 8.395  | -0.005 | 4581   | 26.7                     | 1     | 8.254  | -0.009 | 5875  | 30.9      |  |
| Aroclor-1248             | 2     | 8.515  | -0.010 | 8249   | 18.5                     | 2     | 8.660  | -0.010 | 4616  | 23.0      |  |
| Aroclor-1248             | 3     | 8.936  | -0.009 | 24629  | 28.7                     | 3     | 9.099  | -0.025 | 6477  | 27.5      |  |
| Aroclor-1248             | 4     | 9.237  | -0.003 | 36293  | 82.9                     | 4     | 9.520  | -0.031 | 5452  | 19.3      |  |
| Total CollAve (4 peaks): |       |        |        | 39.2   | Total Col2Ave (4 peaks): |       |        |        | 25.2  | RPD = 44* |  |
| Corrected Ave (3 peaks): |       |        |        | 24.6   | Corrected Ave (3 peaks): |       |        |        | 23.3  | RPD = 6   |  |
| Aroclor-1254             | 1     | 9.237  | -0.007 | 36293  | 52.4                     | 1     | 9.394  | -0.011 | 19358 | 63.7      |  |
| Aroclor-1254             | 2     | 9.312  | -0.013 | 13136  | 42.2                     | 2     | 9.489  | -0.009 | 5778  | 32.0      |  |
| Aroclor-1254             | 3     | 9.607  | -0.008 | 21554  | 48.2                     | 3     | 9.912  | -0.011 | 9463  | 38.4      |  |
| Aroclor-1254             | 4     | 9.737  | -0.016 | 48959  | 55.9                     | 4     | 10.065 | -0.011 | 37488 | 69.8      |  |
| Aroclor-1254             | 5     | 10.060 | -0.061 | 76967  | 145.6                    | 5     | 10.313 | -0.014 | 49018 | 92.0      |  |
| Total CollAve (5 peaks): |       |        |        | 68.9   | Total Col2Ave (5 peaks): |       |        |        | 59.2  | RPD = 15  |  |
| Corrected Ave (4 peaks): |       |        |        | 49.7   | Corrected Ave (4 peaks): |       |        |        | 51.0  | RPD = 3   |  |
| Aroclor-1260             | 1     | 10.982 | -0.011 | 43795  | 99.6                     | 1     | 11.596 | -0.011 | 35861 | 116.9     |  |
| Aroclor-1260             | 2     | 11.295 | -0.015 | 35351  | 81.4                     | 2     | 11.858 | -0.016 | 80135 | 99.9      |  |
| Aroclor-1260             | 3     | 11.668 | -0.017 | 109023 | 100.3                    | 3     | 12.376 | -0.014 | 25786 | 129.7     |  |
| Aroclor-1260             | 4     | 12.070 | -0.021 | 56408  | 105.9                    | 4     | 12.442 | -0.015 | 51946 | 97.0      |  |
| Aroclor-1260             | 5     | 12.182 | -0.011 | 22617  | 97.4                     | NS    | ---    |        |       | ----      |  |
| Total CollAve (5 peaks): |       |        |        | 96.9   | Total Col2Ave (4 peaks): |       |        |        | 110.9 | RPD = 13  |  |
| Corrected Ave (4 peaks): |       |        |        | 94.7   | Corrected Ave (3 peaks): |       |        |        | 104.6 | RPD = 10  |  |
| Aroclor-1262             | 1     | 10.758 | -0.020 | 100181 | 266.3                    | 1     | 11.143 | -0.010 | 31913 | 68.2      |  |
| Aroclor-1262             | 2     | 12.182 | -0.012 | 22617  | 42.7                     | 2     | 11.596 | -0.009 | 35861 | 90.9      |  |
| Aroclor-1262             | 3     | 12.257 | -0.012 | 27760  | 48.8                     | 3     | 12.376 | -0.010 | 25786 | 59.8      |  |
| Aroclor-1262             | 4     | 12.923 | -0.016 | 28435  | 61.3                     | 4     | 12.442 | -0.014 | 51946 | 73.9      |  |
| Total CollAve (4 peaks): |       |        |        | 104.8  | Total Col2Ave (4 peaks): |       |        |        | 73.2  | RPD = 35  |  |
| Corrected Ave (3 peaks): |       |        |        | 51.0   | Corrected Ave (3 peaks): |       |        |        | 67.3  | RPD = 28  |  |
| Aroclor-1268             | 1     | 12.182 | -0.013 | 22617  | 17.0                     | 1     | 12.376 | -0.009 | 25786 | 23.6      |  |
| Aroclor-1268             | 2     | 12.257 | -0.011 | 27760  | 21.1                     | 2     | 12.442 | -0.010 | 51946 | 44.2      |  |
| Aroclor-1268             | 3     | 12.660 | 0.012  | 13543  | 12.8                     | 3     | 12.837 | -0.006 | 1909  | 1.9       |  |
| Aroclor-1268             | 4     | 13.427 | -0.010 | 7279   | 2.4                      | 4     | 13.651 | -0.013 | 8438  | 2.6       |  |
| Total CollAve (4 peaks): |       |        |        | 13.3   | Total Col2Ave (4 peaks): |       |        |        | 18.1  | RPD = 30  |  |
| Corrected Ave (3 peaks): |       |        |        | 10.7   | Corrected Ave (3 peaks): |       |        |        | 9.4   | RPD = 14  |  |

Total PCB Area Col1 (5.843 - 13.740) = 1252986 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.733 - 13.970) = 832203 Col2 Total PCB = 0.2 ppm\*

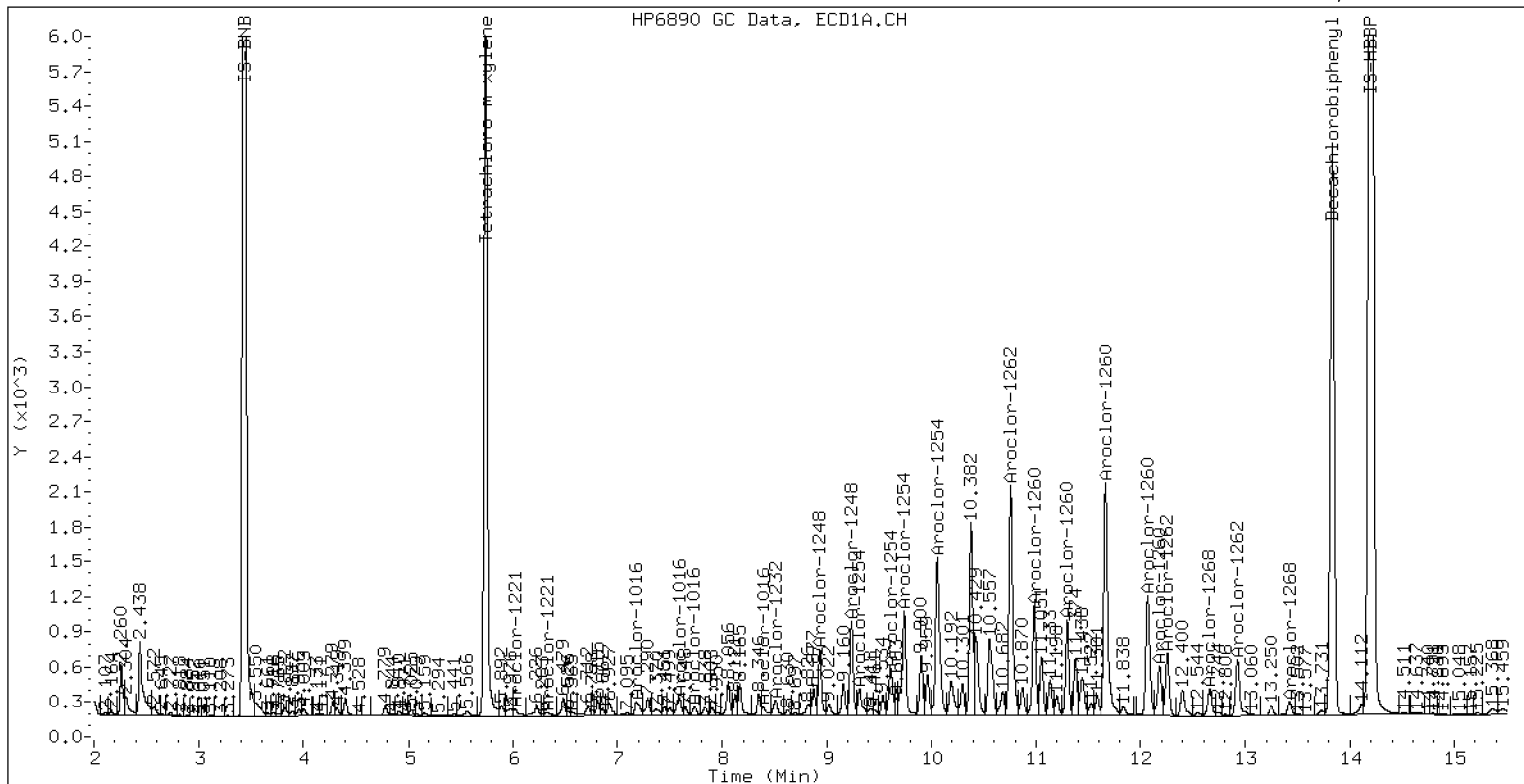
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 BLE0737-SRM1

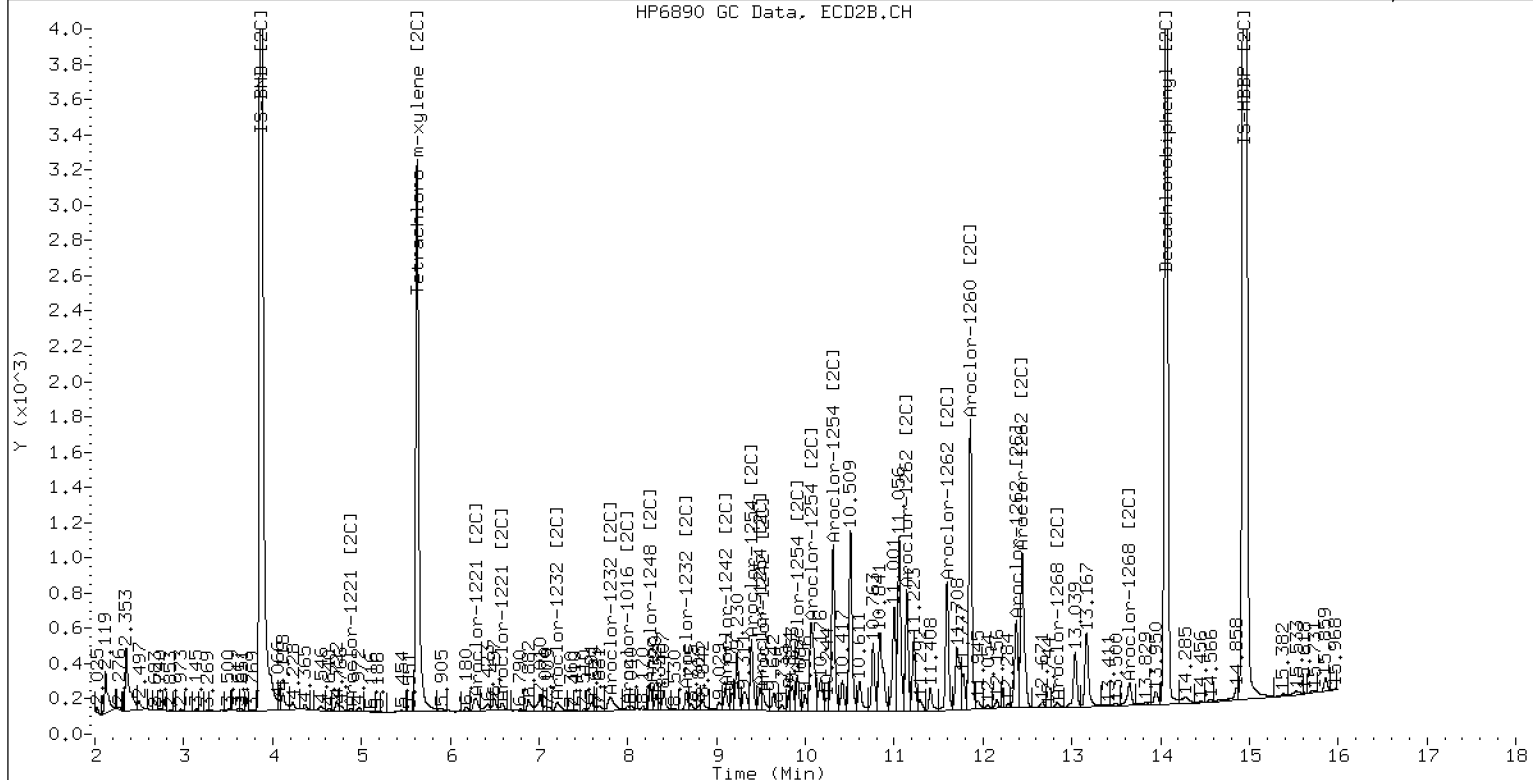
31-MAY-2023 16:55, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 BLE0737-SRM1

31-MAY-2023 16:55, 2u1



ZB-35 Manual Integration: NO





**INITIAL CALIBRATION DATA**  
**EPA 8082A**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GA00061                   | Instrument: | ECD7            |
| Calibration Date: | 01/24/2023                | Column (1): | ZB5             |

| Compound              | Level 01 |              | Level 02 |              | Level 03 |              | Level 04 |              | Level 05 |              | Level 06 |              |
|-----------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|
|                       | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          |
| Aroclor 1016          | 250      | 5.167707E-02 | 20       | 4.942809E-02 | 50       | 5.153925E-02 | 1000     | 4.662732E-02 | 100      | 5.549196E-02 | 500      | 4.928929E-02 |
| Aroclor-1016 (1)      | 250      | 3.017861E-02 | 20       | 2.947465E-02 | 50       | 3.102226E-02 | 1000     | 2.635254E-02 | 100      | 3.309682E-02 | 500      | 2.824148E-02 |
| Aroclor-1016 (2)      | 250      | 0.1020346    | 20       | 9.270426E-02 | 50       | 9.811961E-02 | 1000     | 9.356138E-02 | 100      | 0.1059789    | 500      | 0.0986114    |
| Aroclor-1016 (3)      | 250      | 4.399859E-02 | 20       | 4.877736E-02 | 50       | 4.899883E-02 | 1000     | 3.795541E-02 | 100      | 0.0512744    | 500      | 4.091133E-02 |
| Aroclor-1016 (4)      | 250      | 3.049651E-02 | 20       | 2.675607E-02 | 50       | 2.801628E-02 | 1000     | 2.863996E-02 | 100      | 3.161774E-02 | 500      | 2.939295E-02 |
| Aroclor 1260          | 250      | 6.608884E-02 | 20       | 6.779653E-02 | 50       | 6.325495E-02 | 1000     | 5.469674E-02 | 100      | 5.850835E-02 | 500      | 5.278897E-02 |
| Aroclor-1260 (1)      | 250      | 5.181373E-02 | 20       | 4.727423E-02 | 50       | 4.542797E-02 | 1000     | 0.0403981    | 100      | 0.0442757    | 500      | 0.0401323    |
| Aroclor-1260 (2)      | 250      | 5.350015E-02 | 20       | 4.939797E-02 | 50       | 4.636355E-02 | 1000     | 4.208491E-02 | 100      | 4.449674E-02 | 500      | 4.100371E-02 |
| Aroclor-1260 (3)      | 250      | 0.1331674    | 20       | 0.1373712    | 50       | 0.1282887    | 1000     | 0.1078965    | 100      | 0.1173998    | 500      | 0.1046798    |
| Aroclor-1260 (4)      | 250      | 6.473121E-02 | 20       | 7.197922E-02 | 50       | 0.0663805    | 1000     | 5.863707E-02 | 100      | 5.997377E-02 | 500      | 5.485394E-02 |
| Aroclor-1260 (5)      | 250      | 2.723173E-02 | 20       | 3.295998E-02 | 50       | 2.981405E-02 | 1000     | 2.446709E-02 | 100      | 2.639578E-02 | 500      | 2.327509E-02 |
| Decachlorobiphenyl    | 40       | 0.8481341    | 3.2      | 0.8644195    | 8        | 0.9030151    | 160      | 0.7914512    | 16       | 0.9308139    | 80       | 0.7957625    |
| Tetrachlorometaxylene | 40       | 1.149655     | 3.2      | 1.100393     | 8        | 1.102173     | 160      | 1.094607     | 16       | 1.219974     | 80       | 1.117921     |



**INITIAL CALIBRATION DATA**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GA00061

Instrument: ECD7

Calibration Date: 01/24/2023

Column (1): ZB5

| Compound         | Level 07 |              | Level 08 |              | Level 09 |              | Level 10 |              | Level 11 |              | Level 12 |     |
|------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|-----|
|                  | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF |
| Aroclor 1221     |          |              |          |              |          |              | 250      | 0.0153579    |          |              |          |     |
| Aroclor-1221 (1) |          |              |          |              |          |              | 250      | 5.913051E-03 |          |              |          |     |
| Aroclor-1221 (2) |          |              |          |              |          |              | 250      | 1.209121E-02 |          |              |          |     |
| Aroclor-1221 (3) |          |              |          |              |          |              | 250      | 2.806945E-02 |          |              |          |     |
| Aroclor 1232     |          |              |          |              |          |              |          |              | 250      | 1.785602E-02 |          |     |
| Aroclor-1232 (1) |          |              |          |              |          |              |          |              | 250      | 3.691407E-03 |          |     |
| Aroclor-1232 (2) |          |              |          |              |          |              |          |              | 250      | 8.319285E-03 |          |     |
| Aroclor-1232 (3) |          |              |          |              |          |              |          |              | 250      | 4.160486E-02 |          |     |
| Aroclor-1232 (4) |          |              |          |              |          |              |          |              | 250      | 1.780851E-02 |          |     |
| Aroclor 1242     | 250      | 0.0411165    |          |              |          |              |          |              |          |              |          |     |
| Aroclor-1242 (1) | 250      | 2.449677E-02 |          |              |          |              |          |              |          |              |          |     |
| Aroclor-1242 (2) | 250      | 8.016926E-02 |          |              |          |              |          |              |          |              |          |     |
| Aroclor-1242 (3) | 250      | 2.381903E-02 |          |              |          |              |          |              |          |              |          |     |
| Aroclor-1242 (4) | 250      | 3.598092E-02 |          |              |          |              |          |              |          |              |          |     |
| Aroclor 1248     |          |              | 250      | 0.0592639    |          |              |          |              |          |              |          |     |
| Aroclor-1248 (1) |          |              | 250      | 4.001993E-02 |          |              |          |              |          |              |          |     |
| Aroclor-1248 (2) |          |              | 250      | 5.105008E-02 |          |              |          |              |          |              |          |     |
| Aroclor-1248 (3) |          |              | 250      | 9.765126E-02 |          |              |          |              |          |              |          |     |
| Aroclor-1248 (4) |          |              | 250      | 4.833435E-02 |          |              |          |              |          |              |          |     |
| Aroclor 1254     |          |              |          |              | 250      | 6.750332E-02 |          |              |          |              |          |     |
| Aroclor-1254 (1) |          |              |          |              | 250      | 8.153293E-02 |          |              |          |              |          |     |
| Aroclor-1254 (2) |          |              |          |              | 250      | 0.0348121    |          |              |          |              |          |     |
| Aroclor-1254 (3) |          |              |          |              | 250      | 5.224052E-02 |          |              |          |              |          |     |
| Aroclor-1254 (4) |          |              |          |              | 250      | 0.1023658    |          |              |          |              |          |     |
| Aroclor-1254 (5) |          |              |          |              | 250      | 6.656523E-02 |          |              |          |              |          |     |
| Aroclor-1262 (1) |          |              |          |              |          |              | 250      | 3.235265E-02 |          |              |          |     |
| Aroclor-1262 (2) |          |              |          |              |          |              | 250      | 5.106336E-02 |          |              |          |     |
| Aroclor-1262 (3) |          |              |          |              |          |              | 250      | 5.543866E-02 |          |              |          |     |



**INITIAL CALIBRATION DATA**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC   SDG:                         23A0179  
 Client: Anchor QEA, LLC   Project:                    AOC5 MR Phase 1  
 Calibration: GA00061   Instrument:                ECD7  
 Calibration Date: 01/24/2023   Column (1):              ZB5

| Compound         | Level 07 |     | Level 08 |     | Level 09 |     | Level 10 |              | Level 11 |           | Level 12 |     |
|------------------|----------|-----|----------|-----|----------|-----|----------|--------------|----------|-----------|----------|-----|
|                  | Conc     | RRF | Conc     | RRF | Conc     | RRF | Conc     | RRF          | Conc     | RRF       | Conc     | RRF |
| Aroclor-1262 (4) |          |     |          |     |          |     | 250      | 5.051654E-02 |          |           |          |     |
| Aroclor-1268 (1) |          |     |          |     |          |     |          |              | 250      | 0.132157  |          |     |
| Aroclor-1268 (2) |          |     |          |     |          |     |          |              | 250      | 0.1317955 |          |     |
| Aroclor-1268 (3) |          |     |          |     |          |     |          |              | 250      | 0.1091938 |          |     |
| Aroclor-1268 (4) |          |     |          |     |          |     |          |              | 250      | 0.3237404 |          |     |



**INITIAL CALIBRATION DATA**  
**EPA 8082A**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GA00061                   | Instrument: | ECD7            |
| Calibration Date: | 01/24/2023                | Column (1): | ZB5             |

| COMPOUND         | Mean RRF     | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|------------------|--------------|---------|------------|----------|--------------------|---|
| Aroclor 1016     | 0.0506755    | 5.9     |            |          | RSD (20)           |   |
| Aroclor-1016 (1) | 2.972773E-02 | 7.8     |            |          | RSD (20)           |   |
| Aroclor-1016 (2) | 9.850169E-02 | 5.1     |            |          | RSD (20)           |   |
| Aroclor-1016 (3) | 4.531932E-02 | 11.5    |            |          | RSD (20)           |   |
| Aroclor-1016 (4) | 2.915325E-02 | 6.0     |            |          | RSD (20)           |   |
| Aroclor 1221     |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1221 (1) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1221 (2) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1221 (3) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1232     |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1232 (1) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1232 (2) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1232 (3) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1232 (4) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1242     |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1242 (1) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1242 (2) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1242 (3) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1242 (4) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1248     |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1248 (1) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1248 (2) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1248 (3) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1248 (4) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1254     |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1254 (1) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1254 (2) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1254 (3) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1254 (4) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1254 (5) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1260     | 0.0605224    | 10.2    |            |          | RSD (20)           |   |



**INITIAL CALIBRATION DATA**  
**EPA 8082A**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GA00061                   | Instrument: | ECD7            |
| Calibration Date: | 01/24/2023                | Column (1): | ZB5             |

| COMPOUND              | Mean RRF     | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|-----------------------|--------------|---------|------------|----------|--------------------|---|
| Aroclor-1260 (1)      | 0.044887     | 9.8     |            |          | RSD (20)           |   |
| Aroclor-1260 (2)      | 4.614117E-02 | 10.2    |            |          | RSD (20)           |   |
| Aroclor-1260 (3)      | 0.1214672    | 11.2    |            |          | RSD (20)           |   |
| Aroclor-1260 (4)      | 6.275928E-02 | 9.8     |            |          | RSD (20)           |   |
| Aroclor-1260 (5)      | 2.735729E-02 | 13.0    |            |          | RSD (20)           |   |
| Aroclor-1262 (1)      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1262 (2)      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1262 (3)      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1262 (4)      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1268 (1)      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1268 (2)      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1268 (3)      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1268 (4)      |              | 0.0     |            |          | RSD (20)           |   |
| Decachlorobiphenyl    | 0.8555994    | 6.6     |            |          | RSD (20)           |   |
| Tetrachlorometaxylene | 1.130787     | 4.2     |            |          | RSD (20)           |   |



**INITIAL CALIBRATION DATA**  
**EPA 8082A**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GA00061                   | Instrument: | ECD7            |
| Calibration Date: | 01/24/2023                | Column (2): | ZB35            |

| Compound                   | Level 01 |              | Level 02 |              | Level 03 |              | Level 04 |              | Level 05 |              | Level 06 |              |
|----------------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|
|                            | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          |
| Aroclor 1016 [2C]          | 250      | 5.292579E-02 | 20       | 4.676037E-02 | 50       | 5.470557E-02 | 1000     | 4.853417E-02 | 100      | 5.747899E-02 | 500      | 5.114174E-02 |
| Aroclor-1016 (1) [2C]      | 250      | 4.314113E-02 | 20       | 4.423802E-02 | 50       | 4.724251E-02 | 1000     | 3.795138E-02 | 100      | 4.677646E-02 | 500      | 4.099489E-02 |
| Aroclor-1016 (2) [2C]      | 250      | 9.823746E-02 | 20       | 8.511696E-02 | 50       | 9.615173E-02 | 1000     | 9.129912E-02 | 100      | 0.1041709    | 500      | 9.554107E-02 |
| Aroclor-1016 (3) [2C]      | 250      | 4.028886E-02 | 20       | 2.918885E-02 | 50       | 0.0416533    | 1000     | 3.764267E-02 | 100      | 4.478001E-02 | 500      | 3.925449E-02 |
| Aroclor-1016 (4) [2C]      | 250      | 3.003571E-02 | 20       | 2.849763E-02 | 50       | 3.377476E-02 | 1000     | 2.724351E-02 | 100      | 3.418865E-02 | 500      | 0.0287764    |
| Aroclor 1260 [2C]          | 250      | 0.0868269    | 20       | 8.456297E-02 | 50       | 8.682148E-02 | 1000     | 7.954321E-02 | 100      | 8.639013E-02 | 500      | 7.778218E-02 |
| Aroclor-1260 (1) [2C]      | 250      | 6.129497E-02 | 20       | 6.075052E-02 | 50       | 5.973709E-02 | 1000     | 5.307059E-02 | 100      | 5.911734E-02 | 500      | 5.231082E-02 |
| Aroclor-1260 (2) [2C]      | 250      | 0.1536701    | 20       | 0.147481     | 50       | 0.1510614    | 1000     | 0.1380864    | 100      | 0.1518107    | 500      | 0.1339581    |
| Aroclor-1260 (3) [2C]      | 250      | 3.647192E-02 | 20       | 3.683006E-02 | 50       | 3.729426E-02 | 1000     | 3.693906E-02 | 100      | 3.582131E-02 | 500      | 3.500995E-02 |
| Aroclor-1260 (4) [2C]      | 250      | 0.0958705    | 20       | 9.319031E-02 | 50       | 9.919317E-02 | 1000     | 9.007677E-02 | 100      | 9.881117E-02 | 500      | 8.984983E-02 |
| Decachlorobiphenyl [2C]    | 40       | 1.292085     | 3.2      | 1.209146     | 8        | 1.271224     | 160      | 1.30389      | 16       | 1.311901     | 80       | 1.229614     |
| Tetrachlorometaxylene [2C] | 40       | 1.096753     | 3.2      | 1.043423     | 8        | 1.105211     | 160      | 1.038509     | 16       | 1.153217     | 80       | 1.051873     |



## INITIAL CALIBRATION DATA

### EPA 8082A

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GA00061                   | Instrument: | ECD7            |
| Calibration Date: | 01/24/2023                | Column (2): | ZB35            |

| Compound              | Level 07 |              | Level 08 |              | Level 09 |              | Level 10 |              | Level 11 |              | Level 12 |     |
|-----------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|-----|
|                       | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF |
| Aroclor 1221 [2C]     |          |              |          |              |          |              | 250      | 1.346872E-02 |          |              |          |     |
| Aroclor-1221 (1) [2C] |          |              |          |              |          |              | 250      | 5.864614E-03 |          |              |          |     |
| Aroclor-1221 (2) [2C] |          |              |          |              |          |              | 250      | 1.285084E-02 |          |              |          |     |
| Aroclor-1221 (3) [2C] |          |              |          |              |          |              | 250      | 2.169068E-02 |          |              |          |     |
| Aroclor 1232 [2C]     |          |              |          |              |          |              |          |              | 250      | 0.0188178    |          |     |
| Aroclor-1232 (1) [2C] |          |              |          |              |          |              |          |              | 250      | 3.556924E-03 |          |     |
| Aroclor-1232 (2) [2C] |          |              |          |              |          |              |          |              | 250      | 1.990636E-02 |          |     |
| Aroclor-1232 (3) [2C] |          |              |          |              |          |              |          |              | 250      | 4.054321E-02 |          |     |
| Aroclor-1232 (4) [2C] |          |              |          |              |          |              |          |              | 250      | 1.126471E-02 |          |     |
| Aroclor 1242 [2C]     | 250      | 4.232355E-02 |          |              |          |              |          |              |          |              |          |     |
| Aroclor-1242 (1) [2C] | 250      | 3.498756E-02 |          |              |          |              |          |              |          |              |          |     |
| Aroclor-1242 (2) [2C] | 250      | 7.771274E-02 |          |              |          |              |          |              |          |              |          |     |
| Aroclor-1242 (3) [2C] | 250      | 2.433789E-02 |          |              |          |              |          |              |          |              |          |     |
| Aroclor-1242 (4) [2C] | 250      | 3.225599E-02 |          |              |          |              |          |              |          |              |          |     |
| Aroclor 1248 [2C]     |          |              | 250      | 4.536727E-02 |          |              |          |              |          |              |          |     |
| Aroclor-1248 (1) [2C] |          |              | 250      | 0.036162     |          |              |          |              |          |              |          |     |
| Aroclor-1248 (2) [2C] |          |              | 250      | 3.892353E-02 |          |              |          |              |          |              |          |     |
| Aroclor-1248 (3) [2C] |          |              | 250      | 4.756205E-02 |          |              |          |              |          |              |          |     |
| Aroclor-1248 (4) [2C] |          |              | 250      | 5.882148E-02 |          |              |          |              |          |              |          |     |
| Aroclor 1254 [2C]     |          |              |          |              | 250      | 7.332193E-02 |          |              |          |              |          |     |
| Aroclor-1254 (1) [2C] |          |              |          |              | 250      | 5.803883E-02 |          |              |          |              |          |     |
| Aroclor-1254 (2) [2C] |          |              |          |              | 250      | 4.691175E-02 |          |              |          |              |          |     |
| Aroclor-1254 (3) [2C] |          |              |          |              | 250      | 0.1023304    |          |              |          |              |          |     |
| Aroclor-1254 (4) [2C] |          |              |          |              | 250      | 0.1023323    |          |              |          |              |          |     |
| Aroclor-1254 (5) [2C] |          |              |          |              | 250      | 5.699633E-02 |          |              |          |              |          |     |
| Aroclor-1262 (1) [2C] |          |              |          |              |          |              | 250      | 7.829705E-02 |          |              |          |     |
| Aroclor-1262 (2) [2C] |          |              |          |              |          |              | 250      | 6.658267E-02 |          |              |          |     |
| Aroclor-1262 (3) [2C] |          |              |          |              |          |              | 250      | 7.090313E-02 |          |              |          |     |



**INITIAL CALIBRATION DATA**

**EPA 8082A**

Laboratory: Analytical Resources, LLC      SDG: 23A0179  
Client: Anchor QEA, LLC      Project: AOC5 MR Phase 1  
Calibration: GA00061      Instrument: ECD7  
Calibration Date: 01/24/2023      Column (2): ZB35

| Compound              | Level 07 |     | Level 08 |     | Level 09 |     | Level 10 |           | Level 11 |           | Level 12 |     |
|-----------------------|----------|-----|----------|-----|----------|-----|----------|-----------|----------|-----------|----------|-----|
|                       | Conc     | RRF | Conc     | RRF | Conc     | RRF | Conc     | RRF       | Conc     | RRF       | Conc     | RRF |
| Aroclor-1262 (4) [2C] |          |     |          |     |          |     | 250      | 0.1135497 |          |           |          |     |
| Aroclor-1268 (1) [2C] |          |     |          |     |          |     |          |           | 250      | 0.1868176 |          |     |
| Aroclor-1268 (2) [2C] |          |     |          |     |          |     |          |           | 250      | 0.1988025 |          |     |
| Aroclor-1268 (3) [2C] |          |     |          |     |          |     |          |           | 250      | 0.1654822 |          |     |
| Aroclor-1268 (4) [2C] |          |     |          |     |          |     |          |           | 250      | 0.5111759 |          |     |





**INITIAL CALIBRATION DATA**  
**EPA 8082A**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GA00061                   | Instrument: | ECD7            |
| Calibration Date: | 01/24/2023                | Column (2): | ZB35            |

| COMPOUND              | Mean RRF     | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|-----------------------|--------------|---------|------------|----------|--------------------|---|
| Aroclor 1016 [2C]     | 5.192444E-02 | 7.6     |            |          | RSD (20)           |   |
| Aroclor-1016 (1) [2C] | 4.339073E-02 | 8.1     |            |          | RSD (20)           |   |
| Aroclor-1016 (2) [2C] | 9.508621E-02 | 6.8     |            |          | RSD (20)           |   |
| Aroclor-1016 (3) [2C] | 3.880136E-02 | 13.6    |            |          | RSD (20)           |   |
| Aroclor-1016 (4) [2C] | 3.041944E-02 | 9.5     |            |          | RSD (20)           |   |
| Aroclor 1221 [2C]     |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1221 (1) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1221 (2) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1221 (3) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1232 [2C]     |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1232 (1) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1232 (2) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1232 (3) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1232 (4) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1242 [2C]     |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1242 (1) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1242 (2) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1242 (3) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1242 (4) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1248 [2C]     |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1248 (1) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1248 (2) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1248 (3) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1248 (4) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1254 [2C]     |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1254 (1) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1254 (2) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1254 (3) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1254 (4) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1254 (5) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1260 [2C]     | 8.365448E-02 | 4.8     |            |          | RSD (20)           |   |



**INITIAL CALIBRATION DATA**  
**EPA 8082A**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GA00061                   | Instrument: | ECD7            |
| Calibration Date: | 01/24/2023                | Column (2): | ZB35            |

| COMPOUND                   | Mean RRF     | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|----------------------------|--------------|---------|------------|----------|--------------------|---|
| Aroclor-1260 (1) [2C]      | 5.771356E-02 | 6.9     |            |          | RSD (20)           |   |
| Aroclor-1260 (2) [2C]      | 0.1460113    | 5.5     |            |          | RSD (20)           |   |
| Aroclor-1260 (3) [2C]      | 3.639443E-02 | 2.3     |            |          | RSD (20)           |   |
| Aroclor-1260 (4) [2C]      | 9.449863E-02 | 4.4     |            |          | RSD (20)           |   |
| Aroclor-1262 (1) [2C]      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1262 (2) [2C]      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1262 (3) [2C]      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1262 (4) [2C]      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1268 (1) [2C]      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1268 (2) [2C]      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1268 (3) [2C]      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1268 (4) [2C]      |              | 0.0     |            |          | RSD (20)           |   |
| Decachlorobiphenyl [2C]    | 1.269643     | 3.3     |            |          | RSD (20)           |   |
| Tetrachlorometaxylene [2C] | 1.081498     | 4.2     |            |          | RSD (20)           |   |



**ANALYSIS SEQUENCE**

**SLA0281**

Instrument: ECD7  
Calibration ID: GA00061

**Printed: 1/26/2023 11:51:52AM**

| Lab Number   | Analysis | Container | Order | Position | STD ID  | ISTD ID | Client | Comments |
|--------------|----------|-----------|-------|----------|---------|---------|--------|----------|
| SLA0281-CAL1 | QC       |           | 1     |          | L000856 | K006953 |        |          |
| SLA0281-CAL2 | QC       |           | 2     |          | L000859 | K006953 |        |          |
| SLA0281-CAL3 | QC       |           | 3     |          | L000858 | K006953 |        |          |
| SLA0281-CAL4 | QC       |           | 4     |          | L000731 | K006953 |        |          |
| SLA0281-CAL5 | QC       |           | 5     |          | L000857 | K006953 |        |          |
| SLA0281-CAL6 | QC       |           | 6     |          | L000855 | K006953 |        |          |
| SLA0281-CAL7 | QC       |           | 7     |          | L000860 | K006953 |        |          |
| SLA0281-CAL8 | QC       |           | 8     |          | L000861 | K006953 |        |          |
| SLA0281-CAL9 | QC       |           | 9     |          | L000862 | K006953 |        |          |
| SLA0281-CALA | QC       |           | 10    |          | L000863 | K006953 |        |          |
| SLA0281-CALB | QC       |           | 11    |          | L000864 | K006953 |        |          |
| SLA0281-SCV1 | QC       |           | 12    |          | K007655 | K006953 |        |          |
| SLA0281-SCV2 | QC       |           | 13    |          | K007656 | K006953 |        |          |
| SLA0281-SCV3 | QC       |           | 14    |          | K007657 | K006953 |        |          |
| SLA0281-SCV4 | QC       |           | 15    |          | K007658 | K006953 |        |          |
| SLA0281-SCV5 | QC       |           | 16    |          | K007659 | K006953 |        |          |
| SLA0281-SCV6 | QC       |           | 17    |          | K007660 | K006953 |        |          |

\_\_\_\_\_  
Samples Loaded By Date

\_\_\_\_\_  
Data Processed By Date

## GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230124.b

|    | Inject      | Date/Time | Filename       | DF | LabID   | ClientID |
|----|-------------|-----------|----------------|----|---------|----------|
| 1  | 24-JAN-2023 | 15:39     | 01242312ECD7.D | 1  | IB      |          |
| 2  | 24-JAN-2023 | 16:00     | 01242313ECD7.D | 1  | 0.25PPM | AR1660   |
| 3  | 24-JAN-2023 | 16:21     | 01242314ECD7.D | 1  | 0.02PPM | AR1660   |
| 4  | 24-JAN-2023 | 16:42     | 01242315ECD7.D | 1  | 0.05PPM | AR1660   |
| 5  | 24-JAN-2023 | 17:03     | 01242316ECD7.D | 1  | 1.0PPM  | AR1660   |
| 6  | 24-JAN-2023 | 17:24     | 01242317ECD7.D | 1  | 0.1PPM  | AR1660   |
| 7  | 24-JAN-2023 | 17:45     | 01242318ECD7.D | 1  | 0.5PPM  | AR1660   |
| 8  | 24-JAN-2023 | 18:06     | 01242319ECD7.D | 1  | 0.25PPM | 1242     |
| 9  | 24-JAN-2023 | 18:27     | 01242320ECD7.D | 1  | 0.25PPM | 1248     |
| 10 | 24-JAN-2023 | 18:48     | 01242321ECD7.D | 1  | 0.25PPM | 1254     |
| 11 | 24-JAN-2023 | 19:09     | 01242322ECD7.D | 1  | 0.25PPM | 2162     |
| 12 | 24-JAN-2023 | 19:30     | 01242323ECD7.D | 1  | 0.25PPM | 3268     |
| 13 | 24-JAN-2023 | 19:51     | 01242324ECD7.D | 1  | AR1660  | SCV      |
| 14 | 24-JAN-2023 | 20:12     | 01242325ECD7.D | 1  | AR1242  | SCV      |
| 15 | 24-JAN-2023 | 20:33     | 01242326ECD7.D | 1  | AR1248  | SCV      |
| 16 | 24-JAN-2023 | 20:54     | 01242327ECD7.D | 1  | AR1254  | SCV      |
| 17 | 24-JAN-2023 | 21:15     | 01242328ECD7.D | 1  | AR2162  | SCV      |
| 18 | 24-JAN-2023 | 21:36     | 01242329ECD7.D | 1  | AR3268  | SCV      |
| 19 | 24-JAN-2023 | 21:57     | 01242330ECD7.D | 1  | DDTS    |          |
| 20 | 24-JAN-2023 | 22:18     | 01242331ECD7.D | 1  | DDT     | BD       |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230124.b

ARI Job No.: IB Method: PCB.m Instrument: ecd7.i Date: 24-JAN-2023

| Time | Filename       | LabID   | ClientId | DF | Manually Integrated Compounds |
|------|----------------|---------|----------|----|-------------------------------|
| 1539 | 01242312ECD7.D | IB      |          | 1  | NO MANUAL INTEGRATION         |
| 1600 | 01242313ECD7.D | 0.25PPM | AR1660   | 1  | NO MANUAL INTEGRATION         |
| 1621 | 01242314ECD7.D | 0.02PPM | AR1660   | 1  | NO MANUAL INTEGRATION         |
| 1642 | 01242315ECD7.D | 0.05PPM | AR1660   | 1  | NO MANUAL INTEGRATION         |
| 1703 | 01242316ECD7.D | 1.0PPM  | AR1660   | 1  | NO MANUAL INTEGRATION         |
| 1724 | 01242317ECD7.D | 0.1PPM  | AR1660   | 1  | NO MANUAL INTEGRATION         |
| 1745 | 01242318ECD7.D | 0.5PPM  | AR1660   | 1  | NO MANUAL INTEGRATION         |
| 1806 | 01242319ECD7.D | 0.25PPM | 1242     | 1  | NO MANUAL INTEGRATION         |
| 1827 | 01242320ECD7.D | 0.25PPM | 1248     | 1  | NO MANUAL INTEGRATION         |
| 1848 | 01242321ECD7.D | 0.25PPM | 1254     | 1  | NO MANUAL INTEGRATION         |
| 1909 | 01242322ECD7.D | 0.25PPM | 2162     | 1  | NO MANUAL INTEGRATION         |
| 1930 | 01242323ECD7.D | 0.25PPM | 3268     | 1  | NO MANUAL INTEGRATION         |
| 1951 | 01242324ECD7.D | AR1660  | SCV      | 1  | NO MANUAL INTEGRATION         |
| 2012 | 01242325ECD7.D | AR1242  | SCV      | 1  | NO MANUAL INTEGRATION         |
| 2033 | 01242326ECD7.D | AR1248  | SCV      | 1  | NO MANUAL INTEGRATION         |
| 2054 | 01242327ECD7.D | AR1254  | SCV      | 1  | NO MANUAL INTEGRATION         |
| 2115 | 01242328ECD7.D | AR2162  | SCV      | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230124.b

| Time | Filename       | LabID  | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------|----------|----|-------------------------------|
| 2136 | 01242329ECD7.D | AR3268 | SCV      | 1  | NO MANUAL INTEGRATION         |
| 2157 | 01242330ECD7.D | DDTS   |          | 1  | NO MANUAL INTEGRATION         |
| 2218 | 01242331ECD7.D | DDT    | BD       | 1  | NO MANUAL INTEGRATION         |

Security Status Report

Date: 26-Jan-2023 11:55

|                |             |                             |
|----------------|-------------|-----------------------------|
| 01242301ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242302ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242303ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242304ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242305ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242306ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242307ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242308ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242309ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242310ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242311ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242312ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242313ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242314ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242315ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242316ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242317ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242318ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242319ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242320ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242321ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242322ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242323ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242324ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242325ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242326ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242327ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242328ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242329ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242330ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242331ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2023 16:00  
 End Cal Date : 24-JAN-2023 21:57  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230124.b\PCB.m  
 Last Edit : 25-Jan-2023 10:02 JoshuaR  
 Curve Type : Average

Calibration File Names:

Level 1: \\target\share\chem4\ecd7.i\230124.b\01242314ECD7.D  
 Level 2: \\target\share\chem4\ecd7.i\230124.b\01242315ECD7.D  
 Level 3: \\target\share\chem4\ecd7.i\230124.b\01242317ECD7.D  
 Level 4: \\target\share\chem4\ecd7.i\230124.b\01242313ECD7.D  
 Level 5: \\target\share\chem4\ecd7.i\230124.b\01242318ECD7.D  
 Level 6: \\target\share\chem4\ecd7.i\230124.b\01242316ECD7.D  
 Level 7: \\target\share\chem4\ecd7.i\230124.b\01242323ECD7.D  
 Level 8: \\target\share\chem4\ecd7.i\230124.b\01242330ECD7.D

| Compound          | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| 2 Aroclor-1221(1) | 0.00591           | 0.000e+00         |                    |                    |                    |                     | 0.00591 | 0.000 |
| (2)               | 0.01209           |                   |                    |                    |                    |                     | 0.01209 | 0.000 |
| (3)               | 0.02807           |                   |                    |                    |                    |                     | 0.02807 | 0.000 |
| 3 Aroclor-1242(1) | 0.02450           |                   |                    |                    |                    |                     | 0.02450 | 0.000 |



|                   |         |       |       |       |       |       |       |         |       |
|-------------------|---------|-------|-------|-------|-------|-------|-------|---------|-------|
| (2)               | +++++   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |         |       |
|                   | 0.08017 | +++++ |       |       |       |       |       | 0.08017 | 0.000 |
| (3)               | +++++   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |         |       |
|                   | 0.02382 | +++++ |       |       |       |       |       | 0.02382 | 0.000 |
| (4)               | +++++   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |         |       |
|                   | 0.03598 | +++++ |       |       |       |       |       | 0.03598 | 0.000 |
| 4 Aroclor-1232(1) | +++++   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |         |       |
|                   | 0.00369 | +++++ |       |       |       |       |       | 0.00369 | 0.000 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2023 16:00  
 End Cal Date : 24-JAN-2023 21:57  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230124.b\PCB.m  
 Last Edit : 25-Jan-2023 10:02 JoshuaR  
 Curve Type : Average

| Compound          | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD  |
|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|--------|
| (2)               | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.00832 | 0.000  |
| (3)               | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.04160 | 0.000  |
| (4)               | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.01781 | 0.000  |
| 7 Aroclor-1016(1) | 0.02947           | 0.03102           | 0.03310            | 0.03018            | 0.02824            | 0.02635             | 0.02973 | 7.802  |
| (2)               | 0.09270           | 0.09812           | 0.10598            | 0.10203            | 0.09861            | 0.09356             | 0.09850 | 5.108  |
| (3)               | 0.04878           | 0.04900           | 0.05127            | 0.04400            | 0.04091            | 0.03796             | 0.04532 | 11.523 |
| (4)               | 0.02676           | 0.02802           | 0.03162            | 0.03050            | 0.02939            | 0.02864             | 0.02915 | 5.988  |
| 6 Aroclor-1248(1) | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               |         |        |

|       |         |       |       |       |       |       |         |       |
|-------|---------|-------|-------|-------|-------|-------|---------|-------|
|       | 0.04002 | +++++ |       |       |       |       | 0.04002 | 0.000 |
| ----- |         |       |       |       |       |       |         |       |
| (2)   | +++++   | +++++ | +++++ | +++++ | +++++ | +++++ |         |       |
|       | 0.05105 | +++++ |       |       |       |       | 0.05105 | 0.000 |
| ----- |         |       |       |       |       |       |         |       |
| (3)   | +++++   | +++++ | +++++ | +++++ | +++++ | +++++ |         |       |
|       | 0.09765 | +++++ |       |       |       |       | 0.09765 | 0.000 |
| ----- |         |       |       |       |       |       |         |       |
| (4)   | +++++   | +++++ | +++++ | +++++ | +++++ | +++++ |         |       |
|       | 0.04833 | +++++ |       |       |       |       | 0.04833 | 0.000 |
| ----- |         |       |       |       |       |       |         |       |
| ----- |         |       |       |       |       |       |         |       |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2023 16:00  
 End Cal Date : 24-JAN-2023 21:57  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230124.b\PCB.m  
 Last Edit : 25-Jan-2023 10:02 JoshuaR  
 Curve Type : Average

| Compound          | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD  |
|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|--------|
| 8 Aroclor-1254(1) | 0.08153           | 0.000e+00         |                    |                    |                    |                     | 0.08153 | 0.000  |
| (2)               | 0.03481           |                   |                    |                    |                    |                     | 0.03481 | 0.000  |
| (3)               | 0.05224           |                   |                    |                    |                    |                     | 0.05224 | 0.000  |
| (4)               | 0.10237           |                   |                    |                    |                    |                     | 0.10237 | 0.000  |
| (5)               | 0.06657           |                   |                    |                    |                    |                     | 0.06657 | 0.000  |
| 9 Aroclor-1260(1) | 0.04727           | 0.04543           | 0.04428            | 0.05181            | 0.04013            | 0.04040             | 0.04489 | 9.818  |
| (2)               | 0.04940           | 0.04636           | 0.04450            | 0.05350            | 0.04100            | 0.04208             | 0.04614 | 10.182 |
| (3)               | 0.13737           | 0.12829           | 0.11740            | 0.13317            | 0.10468            | 0.10790             |         |        |

|                     |         |         |         |         |         |         |         |        |
|---------------------|---------|---------|---------|---------|---------|---------|---------|--------|
|                     | +++++   | +++++   |         |         |         |         | 0.12147 | 11.161 |
| (4)                 | 0.07198 | 0.06638 | 0.05997 | 0.06473 | 0.05485 | 0.05864 |         |        |
|                     | +++++   | +++++   |         |         |         |         | 0.06276 | 9.803  |
| (5)                 | 0.03296 | 0.02981 | 0.02640 | 0.02723 | 0.02328 | 0.02447 |         |        |
|                     | +++++   | +++++   |         |         |         |         | 0.02736 | 13.015 |
| 10 Aroclor-1262 (1) | +++++   | +++++   | +++++   | +++++   | +++++   | +++++   |         |        |
|                     | 0.03235 | +++++   |         |         |         |         | 0.03235 | 0.000  |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230124.b\PCB.m  
 Last Edit : 25-Jan-2023 10:02 JoshuaR  
 Curve Type : Average

| Compound           | 20.000<br>Level 1  | 50.000<br>Level 2    | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|--------------------|--------------------|----------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
|                    | 250.000<br>Level 7 | 0.000e+00<br>Level 8 |                    |                    |                    |                     |         |       |
| (2)                | +++++              | +++++                | +++++              | +++++              | +++++              | +++++               | 0.05106 | 0.000 |
|                    | 0.05106            | +++++                |                    |                    |                    |                     |         |       |
| (3)                | +++++              | +++++                | +++++              | +++++              | +++++              | +++++               | 0.05544 | 0.000 |
|                    | 0.05544            | +++++                |                    |                    |                    |                     |         |       |
| (4)                | +++++              | +++++                | +++++              | +++++              | +++++              | +++++               | 0.05052 | 0.000 |
|                    | 0.05052            | +++++                |                    |                    |                    |                     |         |       |
| 11 Aroclor-1268(1) | +++++              | +++++                | +++++              | +++++              | +++++              | +++++               | 0.13216 | 0.000 |
|                    | 0.13216            | +++++                |                    |                    |                    |                     |         |       |
| (2)                | +++++              | +++++                | +++++              | +++++              | +++++              | +++++               | 0.13180 | 0.000 |
|                    | 0.13180            | +++++                |                    |                    |                    |                     |         |       |
| (3)                | +++++              | +++++                | +++++              | +++++              | +++++              | +++++               | 0.10919 | 0.000 |
|                    | 0.10919            | +++++                |                    |                    |                    |                     |         |       |
| (4)                | +++++              | +++++                | +++++              | +++++              | +++++              | +++++               | 0.32374 | 0.000 |
|                    | 0.32374            | +++++                |                    |                    |                    |                     |         |       |
| 42 2,4-DDE         | +++++              | +++++                | +++++              | +++++              | +++++              | +++++               |         |       |

|            |       |       |       |       |       |       |      |       |
|------------|-------|-------|-------|-------|-------|-------|------|-------|
|            | +++++ | 904   |       |       |       |       | 904  | 0.000 |
| -----      |       |       |       |       |       |       |      |       |
| 43 2,4-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |      |       |
|            | +++++ | 1034  |       |       |       |       | 1034 | 0.000 |
| -----      |       |       |       |       |       |       |      |       |
| 44 2,4-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |      |       |
|            | +++++ | 2557  |       |       |       |       | 2557 | 0.000 |
| -----      |       |       |       |       |       |       |      |       |
| 46 4,4-DDE | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |      |       |
|            | +++++ | 1539  |       |       |       |       | 1539 | 0.000 |
| -----      |       |       |       |       |       |       |      |       |
| -----      |       |       |       |       |       |       |      |       |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2023 16:00  
 End Cal Date : 24-JAN-2023 21:57  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230124.b\PCB.m  
 Last Edit : 25-Jan-2023 10:02 JoshuaR  
 Curve Type : Average

| Compound                  | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|---------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| 47 4,4-DDD                | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | +++++   | +++++ |
| 48 4,4-DDT                | +++++             | 1484              |                    |                    |                    |                     | 1484    | 0.000 |
| 49 Hexachlorobutadiene    | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | +++++   | +++++ |
| 50 Hexachlorobenzene      | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | +++++   | +++++ |
| \$ 1 Tetrachloro-m-xylene | 1.10039           | 1.10217           | 1.21997            | 1.14965            | 1.11792            | 1.09461             | 1.13079 | 4.246 |
| \$ 13 Decachlorobiphenyl  | 0.86442           | 0.90302           | 0.93081            | 0.84813            | 0.79576            | 0.79145             | 0.85560 | 6.556 |



ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2023 16:00  
 End Cal Date : 24-JAN-2023 21:57  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230124.b\PCB.m\PCB2.m  
 Last Edit : 25-Jan-2023 09:58 JoshuaR  
 Curve Type : Average

Calibration File Names:

Level 1: \\target\share\chem4\ecd7.i\230124.b\230124.b\01242314ECD7.D  
 Level 2: \\target\share\chem4\ecd7.i\230124.b\230124.b\01242315ECD7.D  
 Level 3: \\target\share\chem4\ecd7.i\230124.b\230124.b\01242317ECD7.D  
 Level 4: \\target\share\chem4\ecd7.i\230124.b\230124.b\01242313ECD7.D  
 Level 5: \\target\share\chem4\ecd7.i\230124.b\230124.b\01242318ECD7.D  
 Level 6: \\target\share\chem4\ecd7.i\230124.b\230124.b\01242316ECD7.D  
 Level 7: \\target\share\chem4\ecd7.i\230124.b\230124.b\01242323ECD7.D  
 Level 8: \\target\share\chem4\ecd7.i\230124.b\230124.b\01242330ECD7.D

| Compound                | 20.000  | 50.000    | 100.000 | 250.000 | 500.000 | 1000.000 | RRF     | % RSD |
|-------------------------|---------|-----------|---------|---------|---------|----------|---------|-------|
|                         | Level 1 | Level 2   | Level 3 | Level 4 | Level 5 | Level 6  |         |       |
|                         | 250.000 | 0.000e+00 |         |         |         |          |         |       |
|                         | Level 7 | Level 8   |         |         |         |          |         |       |
| 1 Aroclor-1221 [2C] (1) | +++++   | +++++     | +++++   | +++++   | +++++   | +++++    | 0.00586 | 0.000 |
|                         | 0.00586 | +++++     |         |         |         |          |         |       |
| (2)                     | +++++   | +++++     | +++++   | +++++   | +++++   | +++++    | 0.01285 | 0.000 |
|                         | 0.01285 | +++++     |         |         |         |          |         |       |
| (3)                     | +++++   | +++++     | +++++   | +++++   | +++++   | +++++    | 0.02169 | 0.000 |
|                         | 0.02169 | +++++     |         |         |         |          |         |       |
| 4 Aroclor-1232 [2C] (1) | +++++   | +++++     | +++++   | +++++   | +++++   | +++++    | 0.00356 | 0.000 |
|                         | 0.00356 | +++++     |         |         |         |          |         |       |

|                         |         |       |       |       |       |       |       |         |       |
|-------------------------|---------|-------|-------|-------|-------|-------|-------|---------|-------|
| (2)                     | +++++   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |         |       |
|                         | 0.01991 | +++++ |       |       |       |       |       | 0.01991 | 0.000 |
| (3)                     | +++++   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |         |       |
|                         | 0.04054 | +++++ |       |       |       |       |       | 0.04054 | 0.000 |
| (4)                     | +++++   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |         |       |
|                         | 0.01126 | +++++ |       |       |       |       |       | 0.01126 | 0.000 |
| 3 Aroclor-1242 [2C] (1) | +++++   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |         |       |
|                         | 0.03499 | +++++ |       |       |       |       |       | 0.03499 | 0.000 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230124.b\PCB.m\PCB2.m  
 Last Edit : 25-Jan-2023 09:58 JoshuaR  
 Curve Type : Average

| Compound                | 20.000<br>Level 1  | 50.000<br>Level 2    | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|-------------------------|--------------------|----------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
|                         | 250.000<br>Level 7 | 0.000e+00<br>Level 8 |                    |                    |                    |                     |         |       |
| (2)                     | +++++              | +++++                | +++++              | +++++              | +++++              | +++++               | 0.07771 | 0.000 |
| (3)                     | 0.02434            | +++++                |                    |                    |                    |                     | 0.02434 | 0.000 |
| (4)                     | 0.03226            | +++++                |                    |                    |                    |                     | 0.03226 | 0.000 |
| 6 Aroclor-1248 [2C] (1) | 0.03616            | +++++                |                    |                    |                    |                     | 0.03616 | 0.000 |
| (2)                     | 0.03892            | +++++                |                    |                    |                    |                     | 0.03892 | 0.000 |
| (3)                     | 0.04756            | +++++                |                    |                    |                    |                     | 0.04756 | 0.000 |
| (4)                     | 0.05882            | +++++                |                    |                    |                    |                     | 0.05882 | 0.000 |
| 7 Aroclor-1016 [2C] (1) | 0.04424            | 0.04724              | 0.04678            | 0.04314            | 0.04099            | 0.03795             |         |       |

|     |         |         |         |         |         |         |         |        |
|-----|---------|---------|---------|---------|---------|---------|---------|--------|
|     | +++++   | +++++   |         |         |         |         | 0.04339 | 8.142  |
| (2) | 0.08512 | 0.09615 | 0.10417 | 0.09824 | 0.09554 | 0.09130 |         |        |
|     | +++++   | +++++   |         |         |         |         | 0.09509 | 6.775  |
| (3) | 0.02919 | 0.04165 | 0.04478 | 0.04029 | 0.03925 | 0.03764 |         |        |
|     | +++++   | +++++   |         |         |         |         | 0.03880 | 13.639 |
| (4) | 0.02850 | 0.03377 | 0.03419 | 0.03004 | 0.02878 | 0.02724 |         |        |
|     | +++++   | +++++   |         |         |         |         | 0.03042 | 9.538  |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230124.b\PCB.m\PCB2.m  
 Last Edit : 25-Jan-2023 09:58 JoshuaR  
 Curve Type : Average

| Compound                 | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|--------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| 8 Aroclor-1254 [2C] (1)  | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.05804 | 0.000 |
| (2)                      | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.04691 | 0.000 |
| (3)                      | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.10233 | 0.000 |
| (4)                      | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.10233 | 0.000 |
| (5)                      | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.05700 | 0.000 |
| 10 Aroclor-1262 [2C] (1) | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.07830 | 0.000 |
| (2)                      | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.06658 | 0.000 |
| (3)                      | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               |         |       |

|                         |         |         |         |         |         |         |         |       |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|-------|
|                         | 0.07090 | +++++   |         |         |         |         | 0.07090 | 0.000 |
| -----                   |         |         |         |         |         |         |         |       |
| (4)                     | +++++   | +++++   | +++++   | +++++   | +++++   | +++++   |         |       |
|                         | 0.11355 | +++++   |         |         |         |         | 0.11355 | 0.000 |
| -----                   |         |         |         |         |         |         |         |       |
| 9 Aroclor-1260 [2C] (1) | 0.06075 | 0.05974 | 0.05912 | 0.06129 | 0.05231 | 0.05307 |         |       |
|                         | +++++   | +++++   |         |         |         |         | 0.05771 | 6.881 |
| -----                   |         |         |         |         |         |         |         |       |
| (2)                     | 0.14748 | 0.15106 | 0.15181 | 0.15367 | 0.13396 | 0.13809 |         |       |
|                         | +++++   | +++++   |         |         |         |         | 0.14601 | 5.547 |
| -----                   |         |         |         |         |         |         |         |       |
| -----                   |         |         |         |         |         |         |         |       |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2023 16:00  
 End Cal Date : 24-JAN-2023 21:57  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230124.b\PCB.m\PCB2.m  
 Last Edit : 25-Jan-2023 09:58 JoshuaR  
 Curve Type : Average

| Compound                 | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|--------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
|                          | 250.000           | 0.000e+00         |                    |                    |                    |                     |         |       |
|                          | Level 7           | Level 8           |                    |                    |                    |                     |         |       |
| (3)                      | 0.03683           | 0.03729           | 0.03582            | 0.03647            | 0.03501            | 0.03694             | 0.03639 | 2.314 |
|                          | +++++             | +++++             |                    |                    |                    |                     |         |       |
| (4)                      | 0.09319           | 0.09919           | 0.09881            | 0.09587            | 0.08985            | 0.09008             | 0.09450 | 4.373 |
|                          | +++++             | +++++             |                    |                    |                    |                     |         |       |
| 11 Aroclor-1268 [2C] (1) | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.18682 | 0.000 |
|                          | 0.18682           | +++++             |                    |                    |                    |                     | 0.18682 | 0.000 |
| (2)                      | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.19880 | 0.000 |
|                          | 0.19880           | +++++             |                    |                    |                    |                     | 0.19880 | 0.000 |
| (3)                      | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.16548 | 0.000 |
|                          | 0.16548           | +++++             |                    |                    |                    |                     | 0.16548 | 0.000 |
| (4)                      | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.51118 | 0.000 |
|                          | 0.51118           | +++++             |                    |                    |                    |                     | 0.51118 | 0.000 |
| 41 2,4-DDE [2C]          | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 1528    | 0.000 |
|                          | +++++             | 1528              |                    |                    |                    |                     | 1528    | 0.000 |
| 42 2,4-DDD [2C]          | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               |         |       |

|                         |       |       |       |       |       |       |      |       |
|-------------------------|-------|-------|-------|-------|-------|-------|------|-------|
|                         | +++++ | 866   |       |       |       |       | 866  | 0.000 |
| -----                   |       |       |       |       |       |       |      |       |
| 44 4,4-DDE [2C]         | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |      |       |
|                         | +++++ | 863   |       |       |       |       | 863  | 0.000 |
| -----                   |       |       |       |       |       |       |      |       |
| 45 4,4-DDD/2,4-DDT [2C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |      |       |
|                         | +++++ | 1162  |       |       |       |       | 1162 | 0.000 |
| -----                   |       |       |       |       |       |       |      |       |
| 46 4,4-DDT [2C]         | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |      |       |
|                         | +++++ | 1277  |       |       |       |       | 1277 | 0.000 |
| -----                   |       |       |       |       |       |       |      |       |
| -----                   |       |       |       |       |       |       |      |       |



ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2023 16:00  
 End Cal Date : 24-JAN-2023 21:57  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230124.b\PCB.m\PCB2.m  
 Last Edit : 25-Jan-2023 09:58 JoshuaR  
 Curve Type : Average

| Compound                       | 20.000<br>Level 1  | 50.000<br>Level 2    | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|--------------------------------|--------------------|----------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
|                                | 250.000<br>Level 7 | 0.000e+00<br>Level 8 |                    |                    |                    |                     |         |       |
| 48 Hexachlorobutadiene         | +++++              | +++++                | +++++              | +++++              | +++++              | +++++               | +++++   | +++++ |
| 49 Hexachlorobenzene           | +++++              | +++++                | +++++              | +++++              | +++++              | +++++               | +++++   | +++++ |
| \$ 2 Tetrachloro-m-xylene [2C] | 1.04342            | 1.10521              | 1.15322            | 1.09675            | 1.05187            | 1.03851             | 1.08150 | 4.159 |
| \$ 13 Decachlorobiphenyl [2C]  | 1.20915            | 1.27122              | 1.31190            | 1.29209            | 1.22961            | 1.30389             | 1.26964 | 3.291 |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Batch File: \\target\share\chem4\ecd7.i\230124.b
Inst ID: ecd7.i

ID: RT01 RT02 RT03 RT04 RT05 RT06
FILENAME: 01242313ECD7 01242314ECD7 01242315ECD7 01242316ECD7 01242317ECD7 01242318ECD7
INJ. DATE: 24-JAN-2023 24-JAN-2023 24-JAN-2023 24-JAN-2023 24-JAN-2023 24-JAN-2023
INJ. TIME: 16:00 16:21 16:42 17:03 17:24 17:45

Table with columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows include compounds like IS-BNB, Tetrachloro-m-xylene, Aroclor-1221, Aroclor-1242, Aroclor-1232, Aroclor-1016, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268, Decachlorobiphenyl, IS-HBBP, 2,4-DDE, 2,4-DDD, 2,4-DDT, 4,4-DDE.

Reviewer 1 \_\_\_\_\_ Date: \_\_\_\_\_
Reviewer 2 \_\_\_\_\_ Date: \_\_\_\_\_

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
 Batch File: \\target\share\chem4\ecd7.i\230124.b  
 Inst ID: ecd7.i

| Compound               | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|------------------------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 47 4,4-DDD             | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.281   | 10.181-10.381 | +++++  | +++++   |
| 48 4,4-DDT             | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.758   | 10.658-10.858 | +++++  | +++++   |
| 49 Hexachlorobutadiene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.842    | 1.742-1.942   | +++++  | +++++   |
| 50 Hexachlorobenzene   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.708    | 6.608-6.808   | +++++  | +++++   |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230124.b\PCB.m\PCB2.m
Batch File: \\target\share\chem4\ecd7.i\230124.b\230124.b
Inst ID: ecd7.i

ID: RT01 RT02 RT03 RT04 RT05 RT06
FILENAME: 01242313ECD7 01242314ECD7 01242315ECD7 01242316ECD7 01242317ECD7 01242318ECD7
INJ. DATE: 24-JAN-2023 24-JAN-2023 24-JAN-2023 24-JAN-2023 24-JAN-2023 24-JAN-2023
INJ. TIME: 16:00 16:21 16:42 17:03 17:24 17:45

Table with columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows include various chemical compounds like Aroclor-1221, Aroclor-1232, etc.

Reviewer 1 \_\_\_\_\_ Date: \_\_\_\_\_
Reviewer 2 \_\_\_\_\_ Date: \_\_\_\_\_

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230124.b\PCB.m\PCB2.m  
 Batch File: \\target\share\chem4\ecd7.i\230124.b\230124.b  
 Inst ID: ecd7.i

| Compound               | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|------------------------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 46 4,4-DDT [2C]        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.095   | 10.995-11.195 | +++++  | +++++   |
| 48 Hexachlorobutadiene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.703    | 1.603-1.803   | +++++  | +++++   |
| 49 Hexachlorobenzene   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.178    | 7.078-7.278   | +++++  | +++++   |

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242312ECD7.D  
Data file 2: /230124.b/230124.b/01242312ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: IB  
Client ID:  
Injection Date: 24-JAN-2023 15:39  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |       | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|-------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.822   | 0.013 | 272340   | 5.680  | -0.007 | 171573   | 36.5   | 36.4 | 0.1           | Tetrachloro-m-xylene |
| 13.900  | 0.008 | 252989   | 14.120 | -0.000 | 223176   | 37.3   | 38.6 | 3.4           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 528068      | 4.9  |
| Hexabromobiphenyl  | 647433         | 634177      | -2.0 |
| Column 2           |                |             |      |
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 348301      | 3.4  |
| Hexabromobiphenyl  | 382032         | 364259      | -4.7 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |       | ZB35 Col |                          |        |        |      |               |
|--------------------------|-------|--------|--------|-------|----------|--------------------------|--------|--------|------|---------------|
| Aroclor                  | Peak# | RT     | Shift  | Area  | Amount   | Peak#                    | RT     | Shift  | Area | Amount        |
| Aroclor-1016             | 1     | ---    |        |       | 0.0      | 1                        | ---    |        |      | 0.0           |
| Aroclor-1016             | 2     | ---    |        |       | 0.0      | 2                        | ---    |        |      | 0.0           |
| Aroclor-1016             | 3     | 7.852  | 0.064  | 162   | 0.5      | 3                        | ---    |        |      | 0.0           |
| Aroclor-1016             | 4     | 8.431  | 0.027  | 495   | 2.6      | 4                        | ---    |        |      | 0.0           |
| CollAve: <3 Quant Peaks  |       |        |        |       |          | Col2Ave: <3 Quant Peaks  |        |        |      |               |
| Aroclor-1221             | 1     | ---    |        |       | 0.0      | 1                        | ---    |        |      | 0.0           |
| Aroclor-1221             | 2     | ---    |        |       | 0.0      | 2                        | 6.317  | 0.019  | 1908 | 34.1          |
| Aroclor-1221             | 3     | ---    |        |       | 0.0      | 3                        | 6.630  | 0.007  | 299  | 3.2           |
| CollAve: <3 Quant Peaks  |       |        |        |       |          | Col2Ave: <3 Quant Peaks  |        |        |      |               |
| Aroclor-1232             | 1     | ---    |        |       | 0.0      | 1                        | ---    |        |      | 0.0           |
| Aroclor-1232             | 2     | ---    |        |       | 0.0      | 2                        | 7.208  | -0.049 | 26   | 0.3           |
| Aroclor-1232             | 3     | ---    |        |       | 0.0      | 3                        | ---    |        |      | 0.0           |
| Aroclor-1232             | 4     | ---    |        |       | 0.0      | 4                        | 8.730  | 0.017  | 33   | 0.7           |
| CollAve: <3 Quant Peaks  |       |        |        |       |          | Col2Ave: <3 Quant Peaks  |        |        |      |               |
| Aroclor-1242             | 1     | ---    |        |       | 0.0      | 1                        | 7.208  | -0.048 | 26   | 0.2           |
| Aroclor-1242             | 2     | ---    |        |       | 0.0      | 2                        | ---    |        |      | 0.0           |
| Aroclor-1242             | 3     | 8.431  | 0.024  | 495   | 3.1      | 3                        | 9.151  | -0.008 | 93   | 0.9           |
| Aroclor-1242             | 4     | 8.630  | 0.049  | 1101  | 4.6      | 4                        | ---    |        |      | 0.0           |
| CollAve: <3 Quant Peaks  |       |        |        |       |          | Col2Ave: <3 Quant Peaks  |        |        |      |               |
| Aroclor-1248             | 1     | 8.431  | 0.025  | 495   | 1.9      | 1                        | ---    |        |      | 0.0           |
| Aroclor-1248             | 2     | 8.630  | 0.050  | 1101  | 3.3      | 2                        | 8.730  | 0.018  | 33   | 0.2           |
| Aroclor-1248             | 3     | ---    |        |       | 0.0      | 3                        | 9.151  | -0.005 | 93   | 0.4           |
| Aroclor-1248             | 4     | ---    |        |       | 0.0      | 4                        | ---    |        |      | 0.0           |
| CollAve: <3 Quant Peaks  |       |        |        |       |          | Col2Ave: <3 Quant Peaks  |        |        |      |               |
| Aroclor-1254             | 1     | ---    |        |       | 0.0      | 1                        | 9.474  | 0.026  | 9010 | 35.7          |
| Aroclor-1254             | 2     | ---    |        |       | 0.0      | 2                        | ---    |        |      | 0.0           |
| Aroclor-1254             | 3     | 9.571  | -0.099 | 114   | 0.3      | 3                        | ---    |        |      | 0.0           |
| Aroclor-1254             | 4     | 9.770  | -0.038 | 104   | 0.2      | 4                        | ---    |        |      | 0.0           |
| Aroclor-1254             | 5     | ---    |        |       | 0.0      | 5                        | 10.525 | -0.044 | 482  | 1.9           |
| CollAve: <3 Quant Peaks  |       |        |        |       |          | Col2Ave: <3 Quant Peaks  |        |        |      |               |
| Aroclor-1260             | 1     | 11.066 | 0.023  | 262   | 0.7      | 1                        | 11.703 | 0.050  | 189  | 0.7           |
| Aroclor-1260             | 2     | ---    |        |       | 0.0      | 2                        | 11.832 | -0.086 | 97   | 0.1           |
| Aroclor-1260             | 3     | 11.803 | 0.069  | 4470  | 4.6      | 3                        | 12.414 | -0.022 | 2209 | 13.3          |
| Aroclor-1260             | 4     | 12.089 | -0.051 | 661   | 1.3      | 4                        | ---    |        |      | 0.0           |
| Aroclor-1260             | 5     | 12.282 | 0.038  | 5183  | 23.9     | NS                       | ---    |        |      | ----          |
| Total CollAve (4 peaks): |       |        |        | 7.7   |          | Total Col2Ave (3 peaks): |        |        |      | 4.7 RPD = 47* |
| Corrected Ave (3 peaks): |       |        |        | 2.2   |          | Corrected Ave: < 3 Peaks |        |        |      |               |
| Aroclor-1262             | 1     | 10.789 | -0.043 | 941   | 3.7      | 1                        | ---    |        |      | 0.0           |
| Aroclor-1262             | 2     | 12.282 | 0.036  | 5183  | 12.8     | 2                        | 11.703 | 0.051  | 189  | 0.6           |
| Aroclor-1262             | 3     | ---    |        |       | 0.0      | 3                        | 12.414 | -0.020 | 2209 | 6.8           |
| Aroclor-1262             | 4     | 12.982 | -0.007 | 2811  | 7.0      | 4                        | ---    |        |      | 0.0           |
| Total CollAve (3 peaks): |       |        |        |       | 7.8      | Col2Ave: <3 Quant Peaks  |        |        |      |               |
| Aroclor-1268             | 1     | 12.282 | 0.037  | 5183  | 4.9      | 1                        | 12.414 | -0.020 | 2209 | 2.6           |
| Aroclor-1268             | 2     | ---    |        |       | 0.0      | 2                        | ---    |        |      | 0.0           |
| Aroclor-1268             | 3     | 12.705 | 0.006  | 3092  | 3.6      | 3                        | 12.894 | 0.001  | 724  | 1.0           |
| Aroclor-1268             | 4     | 13.500 | 0.011  | 13310 | 5.2      | 4                        | 13.708 | -0.000 | 2974 | 1.3           |
| Total CollAve (3 peaks): |       |        |        | 4.6   |          | Total Col2Ave (3 peaks): |        |        |      | 1.6 RPD = 96* |
| Corrected Ave: < 3 Peaks |       |        |        |       |          | Corrected Ave: < 3 Peaks |        |        |      |               |

Total PCB Area Col1 (5.909 - 13.792) = 89790 Col1 Total PCB = 0.0 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 40020 Col2 Total PCB = 0.0 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

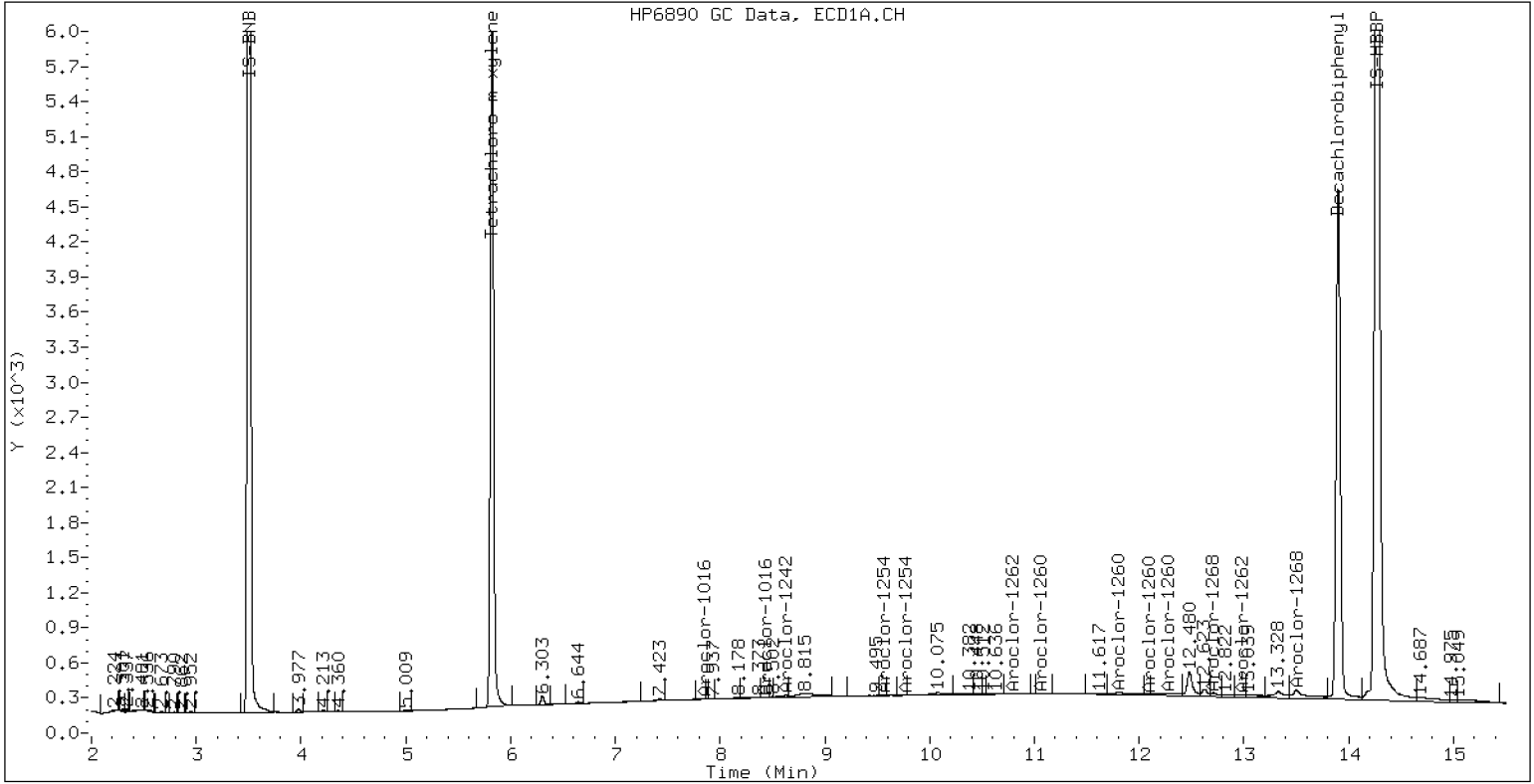
PCB-Form 10 Mod.



# PCB Dual Column Chromatograms

ECD7-ZB5 IB

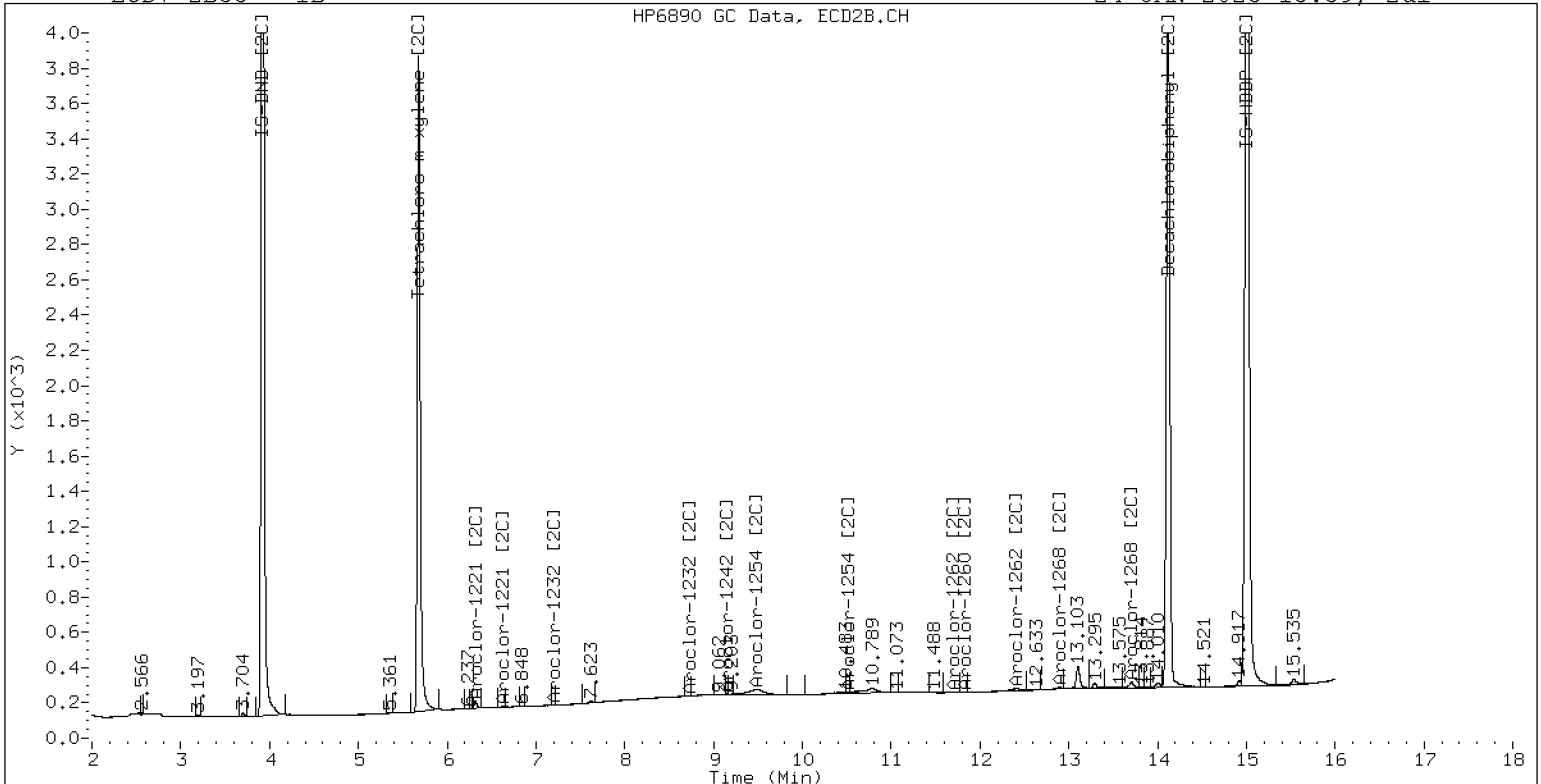
24-JAN-2023 15:39, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 IB

24-JAN-2023 15:39, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242313ECD7.D  
Data file 2: /230124.b/230124.b/01242313ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.25PPM AR1660  
Client ID:  
Injection Date: 24-JAN-2023 16:00  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col<br>Shift | Response | RT     | ZB35 Col<br>Shift | Response | ZB5<br>on col | ZB35<br>on col | RPD | Compound/Flag        |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.810  | 0.001            | 289321   | 5.685  | -0.002            | 184754   | 40.7          | 40.6           | 0.3 | Tetrachloro-m-xylene |
| 13.894 | 0.002            | 274555   | 14.120 | 0.000             | 246809   | 39.7          | 40.7           | 2.6 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 503318         | 503318      | 0.0 |
| Hexabromobiphenyl  | 647433         | 647433      | 0.0 |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 336911         | 336911      | 0.0 |
| Hexabromobiphenyl  | 382032         | 382032      | 0.0 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |       |        | ZB35 Col |                          |       |       |        |               |
|--------------------------|-------|-------|-------|--------|----------|--------------------------|-------|-------|--------|---------------|
| Aroclor                  | Peak# | RT    | Shift | Area   | Amount   | Peak#                    | RT    | Shift | Area   | Amount        |
| Aroclor-1016             | 1     | 7.272 | 0.002 | 47467  | 253.8    | 1                        | 7.255 | 0.000 | 45421  | 248.6         |
| Aroclor-1016             | 2     | 7.654 | 0.004 | 160487 | 259.0    | 2                        | 7.851 | 0.000 | 103429 | 258.3         |
| Aroclor-1016             | 3     | 7.791 | 0.003 | 69204  | 242.7    | 3                        | 8.050 | 0.000 | 42418  | 259.6         |
| Aroclor-1016             | 4     | 8.406 | 0.003 | 47967  | 261.5    | 4                        | 8.305 | 0.000 | 31623  | 246.8         |
| Total CollAve (4 peaks): |       |       |       | 254.2  |          | Total Col2Ave (4 peaks): |       |       |        | 253.3 RPD = 0 |
| Corrected Ave (3 peaks): |       |       |       | 251.8  |          | Corrected Ave (3 peaks): |       |       |        | 251.2 RPD = 0 |

CalAmt %D: 1.7

CalAmt %D: 1.3

|                          |   |        |       |        |       |                          |        |       |        |               |
|--------------------------|---|--------|-------|--------|-------|--------------------------|--------|-------|--------|---------------|
| Aroclor-1260             | 1 | 11.047 | 0.003 | 104831 | 288.6 | 1                        | 11.653 | 0.000 | 73177  | 265.5         |
| Aroclor-1260             | 2 | 11.362 | 0.002 | 108243 | 289.9 | 2                        | 11.918 | 0.000 | 183459 | 263.1         |
| Aroclor-1260             | 3 | 11.738 | 0.004 | 269428 | 274.1 | 3                        | 12.436 | 0.000 | 43542  | 250.5         |
| Aroclor-1260             | 4 | 12.142 | 0.002 | 130966 | 257.9 | 4                        | 12.502 | 0.000 | 114455 | 253.6         |
| Aroclor-1260             | 5 | 12.246 | 0.002 | 55096  | 248.9 | NS                       | ---    |       |        | ----          |
| Total CollAve (5 peaks): |   |        |       | 271.8  |       | Total Col2Ave (4 peaks): |        |       |        | 258.2 RPD = 5 |
| Corrected Ave (4 peaks): |   |        |       | 267.3  |       | Corrected Ave (3 peaks): |        |       |        | 255.8 RPD = 4 |

CalAmt %D: 8.7

CalAmt %D: 3.3

Total PCB Area Coll (5.909 - 13.792) = 2930230 Coll Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 1777050 Col2 Total PCB = 0.5 ppm\*

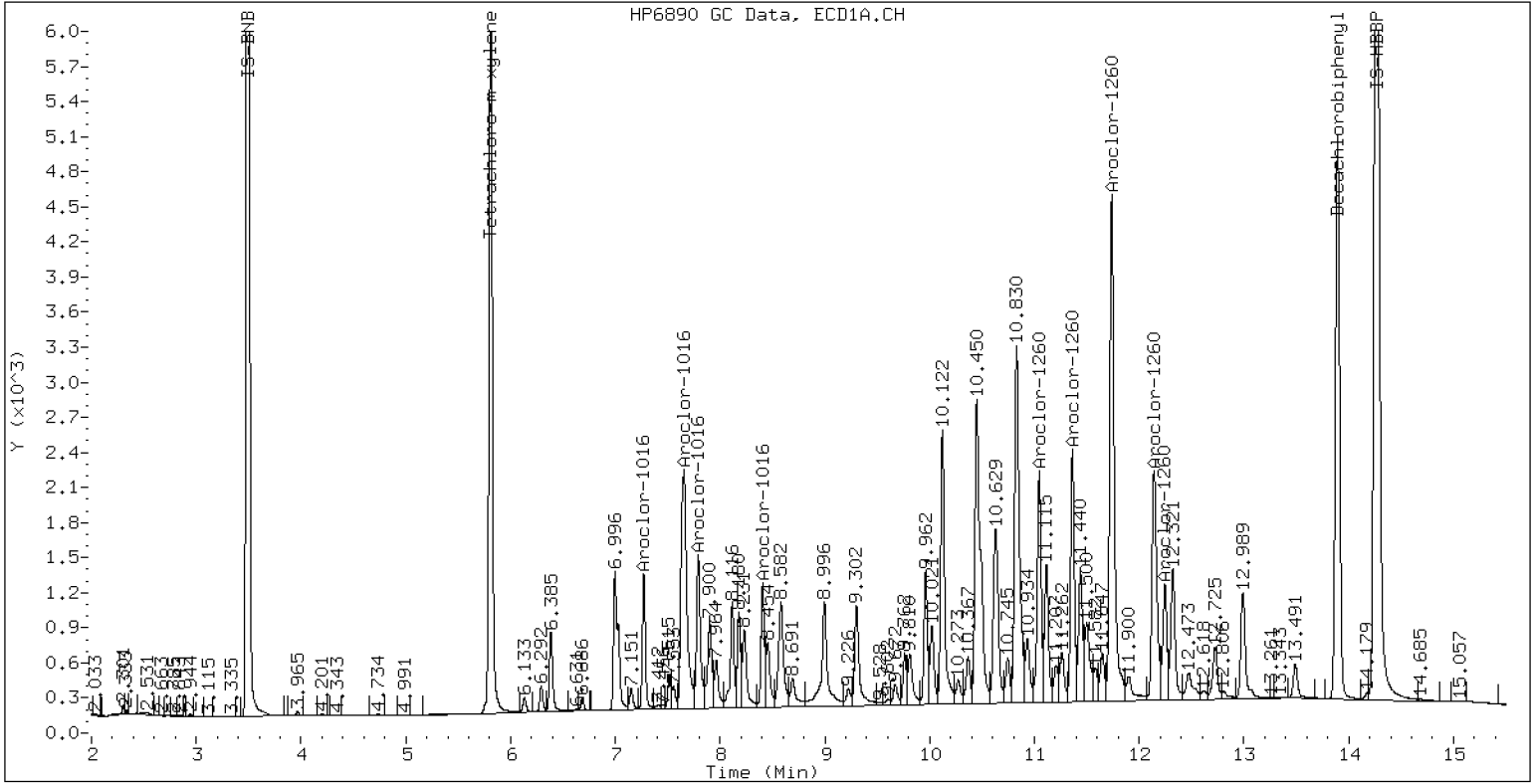
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPM AR1660

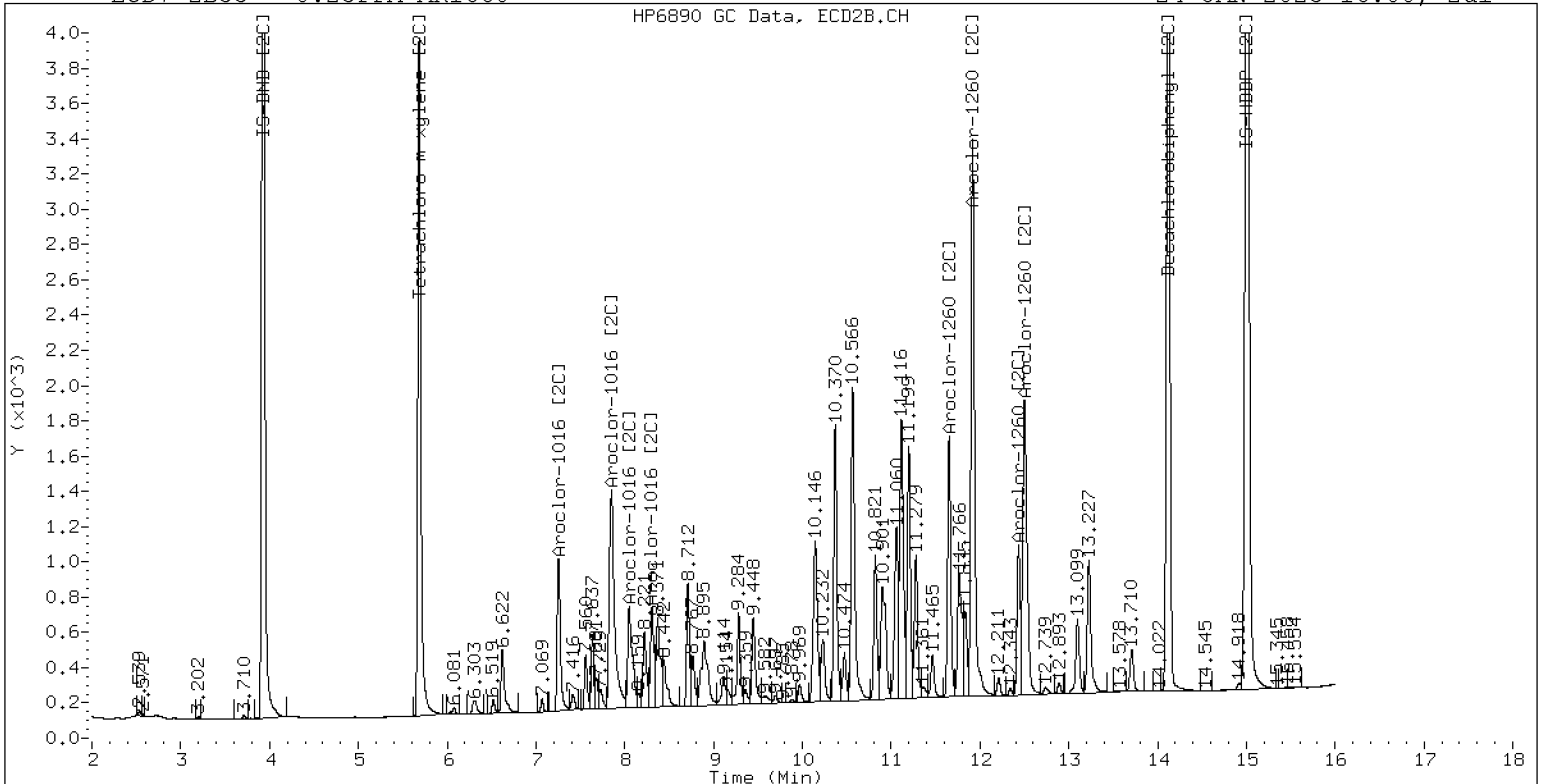
24-JAN-2023 16:00, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPM AR1660

24-JAN-2023 16:00, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242314ECD7.D  
Data file 2: /230124.b/230124.b/01242314ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.02PPM AR1660  
Client ID:  
Injection Date: 24-JAN-2023 16:21  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col<br>Shift | Response | RT     | ZB35 Col<br>Shift | Response | ZB5<br>on col | ZB35<br>on col | RPD | Compound/Flag        |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.809  | 0.000            | 21307    | 5.686  | -0.000            | 13767    | 3.1           | 3.1            | 0.9 | Tetrachloro-m-xylene |
| 13.892 | 0.000            | 23054    | 14.121 | 0.001             | 19257    | 3.2           | 3.0            | 5.9 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 484077      | -3.8 |
| Hexabromobiphenyl  | 647433         | 666748      | 3.0  |
| Column 2           |                |             |      |
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 329852      | -2.1 |
| Hexabromobiphenyl  | 382032         | 398153      | 4.2  |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col ZB35 Col

| Aroclor                  | Peak# | RT    | Shift | Area  | Amount                   | Peak# | RT    | Shift | Area | Amount   |  |
|--------------------------|-------|-------|-------|-------|--------------------------|-------|-------|-------|------|----------|--|
| Aroclor-1016             | 1     | 7.272 | 0.002 | 3567  | 19.8                     | 1     | 7.257 | 0.002 | 3648 | 20.4     |  |
| Aroclor-1016             | 2     | 7.663 | 0.012 | 11219 | 18.8                     | 2     | 7.858 | 0.007 | 7019 | 17.9     |  |
| Aroclor-1016             | 3     | 7.796 | 0.008 | 5903  | 21.5                     | 3     | 8.058 | 0.007 | 2407 | 15.0     |  |
| Aroclor-1016             | 4     | 8.410 | 0.006 | 3238  | 18.4                     | 4     | 8.308 | 0.003 | 2350 | 18.7     |  |
| Total CollAve (4 peaks): |       |       |       | 19.6  | Total Col2Ave (4 peaks): |       |       |       | 18.0 | RPD = 9  |  |
| Corrected Ave (3 peaks): |       |       |       | 19.0  | Corrected Ave (3 peaks): |       |       |       | 17.2 | RPD = 10 |  |

CalAmt %D: -1.8 CalAmt %D: -9.9

|                          |   |        |       |       |                          |    |        |       |       |          |  |
|--------------------------|---|--------|-------|-------|--------------------------|----|--------|-------|-------|----------|--|
| Aroclor-1260             | 1 | 11.049 | 0.005 | 7880  | 21.1                     | 1  | 11.655 | 0.002 | 6047  | 21.1     |  |
| Aroclor-1260             | 2 | 11.365 | 0.005 | 8234  | 21.4                     | 2  | 11.923 | 0.005 | 14680 | 20.2     |  |
| Aroclor-1260             | 3 | 11.742 | 0.008 | 22898 | 22.6                     | 3  | 12.438 | 0.002 | 3666  | 20.2     |  |
| Aroclor-1260             | 4 | 12.149 | 0.009 | 11998 | 22.9                     | 4  | 12.506 | 0.004 | 9276  | 19.7     |  |
| Aroclor-1260             | 5 | 12.247 | 0.003 | 5494  | 24.1                     | NS | ---    |       |       | ----     |  |
| Total CollAve (5 peaks): |   |        |       | 22.4  | Total Col2Ave (4 peaks): |    |        |       | 20.3  | RPD = 10 |  |
| Corrected Ave (4 peaks): |   |        |       | 22.0  | Corrected Ave (3 peaks): |    |        |       | 20.1  | RPD = 9  |  |

CalAmt %D: 12.1 CalAmt %D: 1.5

Total PCB Area Coll (5.909 - 13.792) = 256211 Coll Total PCB = 0.0 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 146434 Col2 Total PCB = 0.0 ppm\*

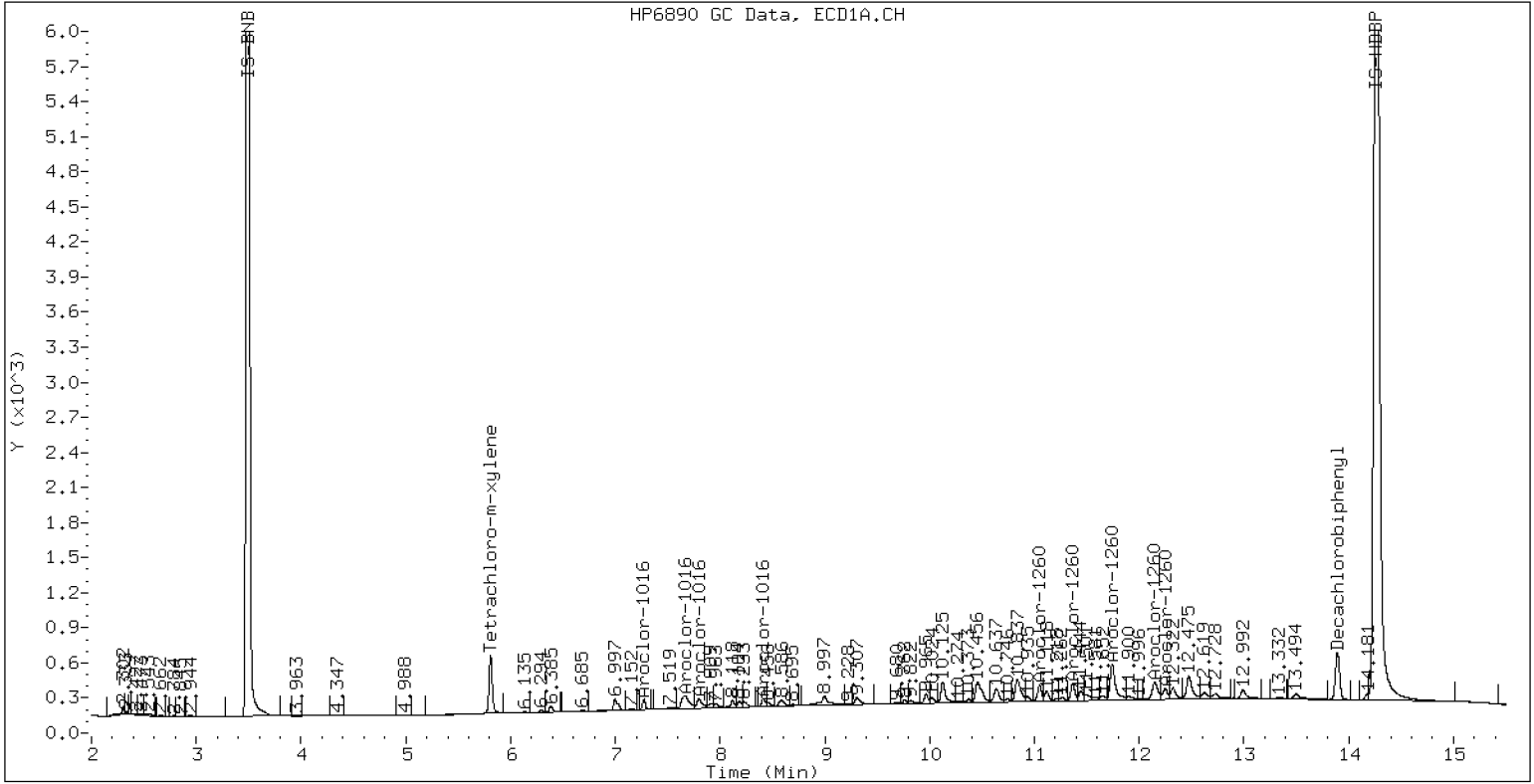
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.02PPM AR1660

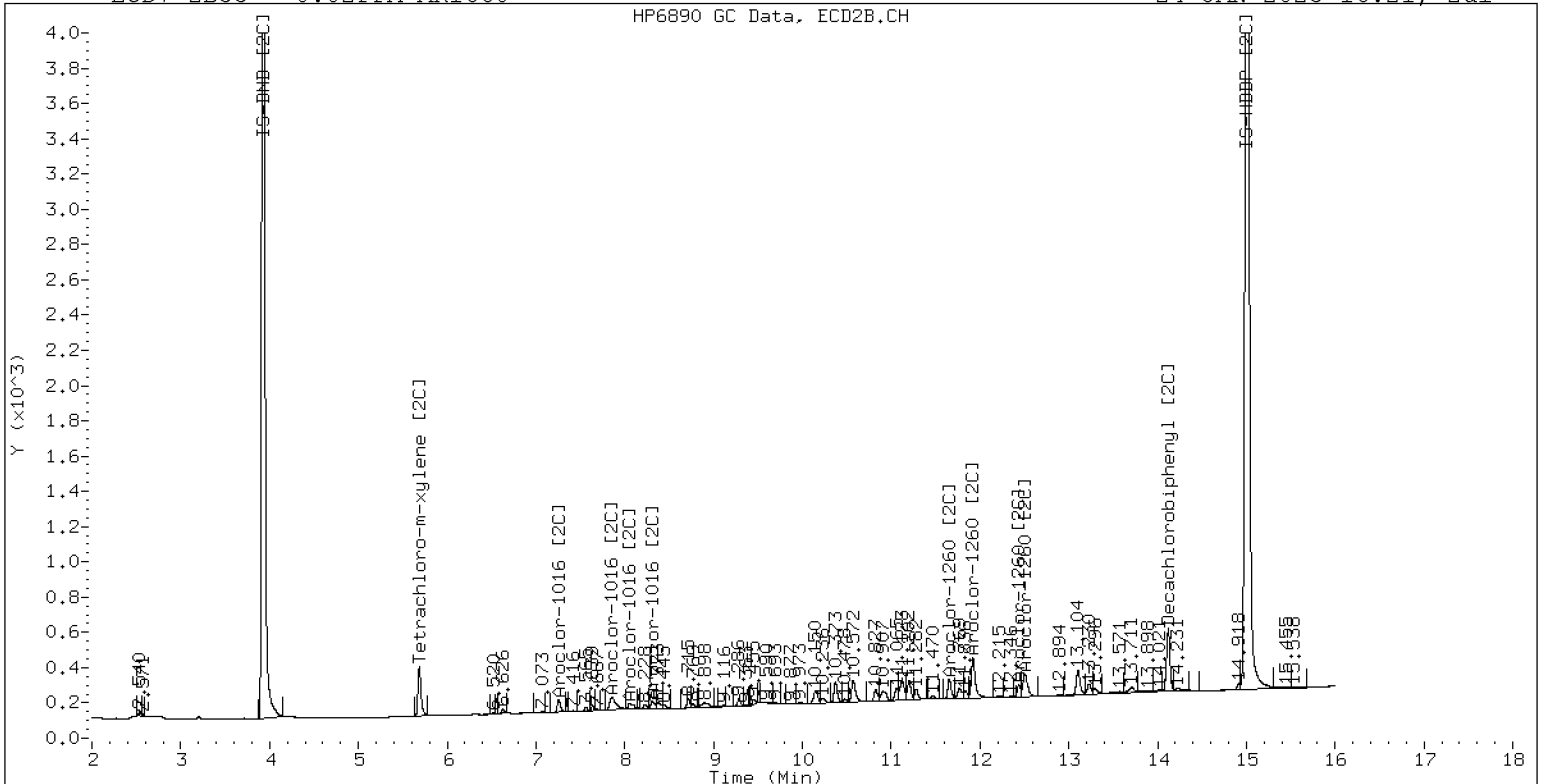
24-JAN-2023 16:21, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 0.02PPM AR1660

24-JAN-2023 16:21, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242315ECD7.D  
Data file 2: /230124.b/230124.b/01242315ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.05PPM AR1660  
Client ID:  
Injection Date: 24-JAN-2023 16:42  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col<br>Shift | Response | RT     | ZB35 Col<br>Shift | Response | ZB5<br>on col | ZB35<br>on col | RPD | Compound/Flag        |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.809  | -0.000           | 53503    | 5.687  | -0.000            | 36922    | 7.8           | 8.2            | 4.7 | Tetrachloro-m-xylene |
| 13.893 | 0.001            | 62544    | 14.120 | -0.000            | 52782    | 8.4           | 8.0            | 5.3 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 485432      | -3.6 |
| Hexabromobiphenyl  | 647433         | 692613      | 7.0  |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 334072      | -0.8 |
| Hexabromobiphenyl  | 382032         | 415206      | 8.7  |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                  |       |        |       |       |                          | ZB35 Col |        |       |       |         |  |
|--------------------------|-------|--------|-------|-------|--------------------------|----------|--------|-------|-------|---------|--|
| Aroclor                  | Peak# | RT     | Shift | Area  | Amount                   | Peak#    | RT     | Shift | Area  | Amount  |  |
| Aroclor-1016             | 1     | 7.271  | 0.002 | 9412  | 52.2                     | 1        | 7.256  | 0.001 | 9864  | 54.4    |  |
| Aroclor-1016             | 2     | 7.657  | 0.007 | 29769 | 49.8                     | 2        | 7.855  | 0.004 | 20076 | 50.6    |  |
| Aroclor-1016             | 3     | 7.795  | 0.006 | 14866 | 54.1                     | 3        | 8.055  | 0.004 | 8697  | 53.7    |  |
| Aroclor-1016             | 4     | 8.409  | 0.005 | 8500  | 48.1                     | 4        | 8.308  | 0.003 | 7052  | 55.5    |  |
| Total CollAve (4 peaks): |       |        |       | 51.0  | Total Col2Ave (4 peaks): |          |        |       | 53.5  | RPD = 5 |  |
| Corrected Ave (3 peaks): |       |        |       | 50.0  | Corrected Ave (3 peaks): |          |        |       | 52.9  | RPD = 6 |  |
| CalAmt %D:               |       |        |       | 2.0   | CalAmt %D:               |          |        |       | 7.1   |         |  |
| Aroclor-1260             | 1     | 11.048 | 0.005 | 19665 | 50.6                     | 1        | 11.655 | 0.002 | 15502 | 51.8    |  |
| Aroclor-1260             | 2     | 11.364 | 0.003 | 20070 | 50.2                     | 2        | 11.921 | 0.003 | 39201 | 51.7    |  |
| Aroclor-1260             | 3     | 11.740 | 0.006 | 55534 | 52.8                     | 3        | 12.439 | 0.003 | 9678  | 51.2    |  |
| Aroclor-1260             | 4     | 12.145 | 0.006 | 28735 | 52.9                     | 4        | 12.506 | 0.004 | 25741 | 52.5    |  |
| Aroclor-1260             | 5     | 12.246 | 0.002 | 12906 | 54.5                     | NS       | ---    |       |       | ----    |  |
| Total CollAve (5 peaks): |       |        |       | 52.2  | Total Col2Ave (4 peaks): |          |        |       | 51.8  | RPD = 1 |  |
| Corrected Ave (4 peaks): |       |        |       | 51.6  | Corrected Ave (3 peaks): |          |        |       | 51.6  | RPD = 0 |  |
| CalAmt %D:               |       |        |       | 4.4   | CalAmt %D:               |          |        |       | 3.6   |         |  |

Total PCB Area Coll (5.909 - 13.792) = 600311 Coll Total PCB = 0.1 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 383666 Col2 Total PCB = 0.1 ppm\*

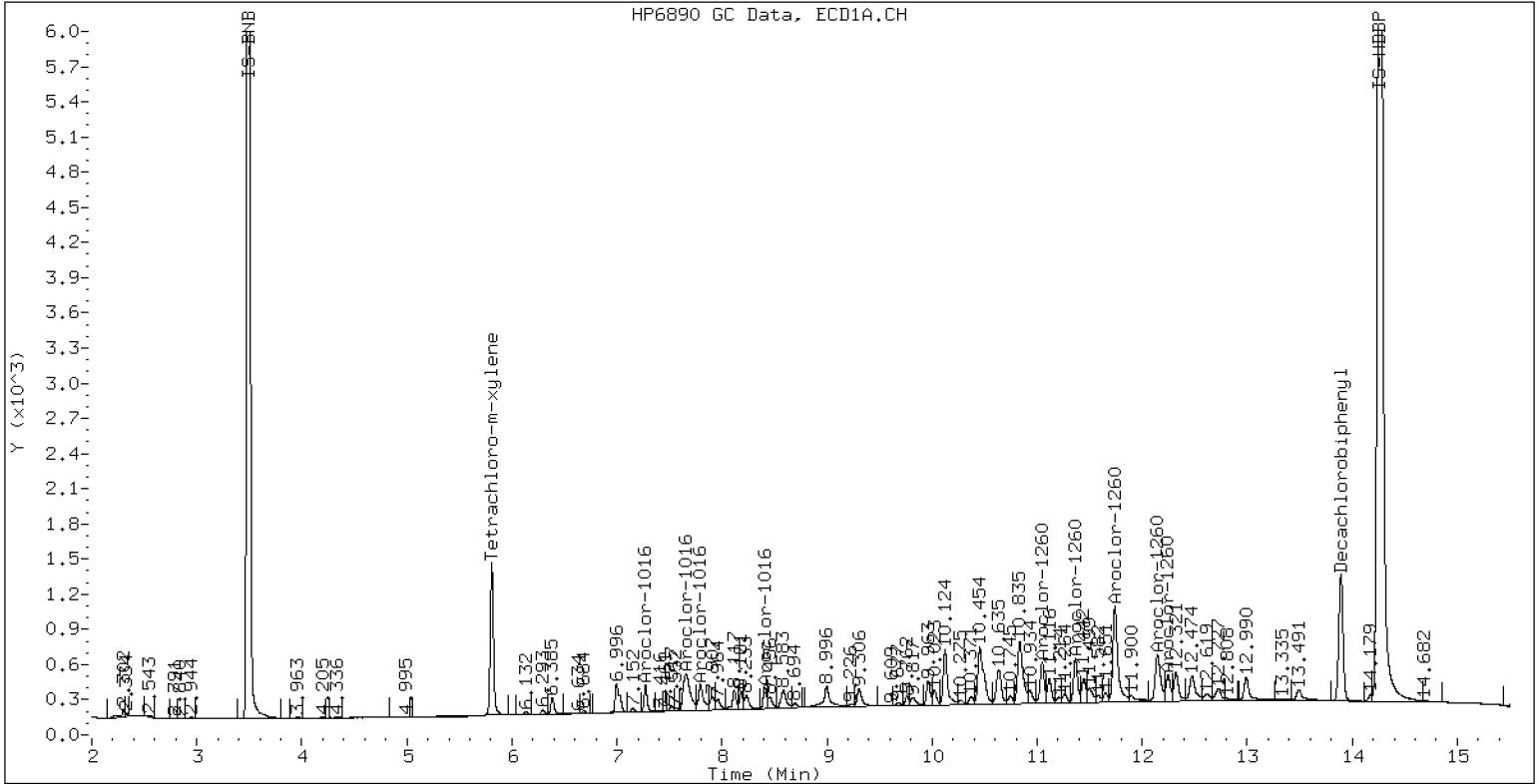
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.05PPM AR1660

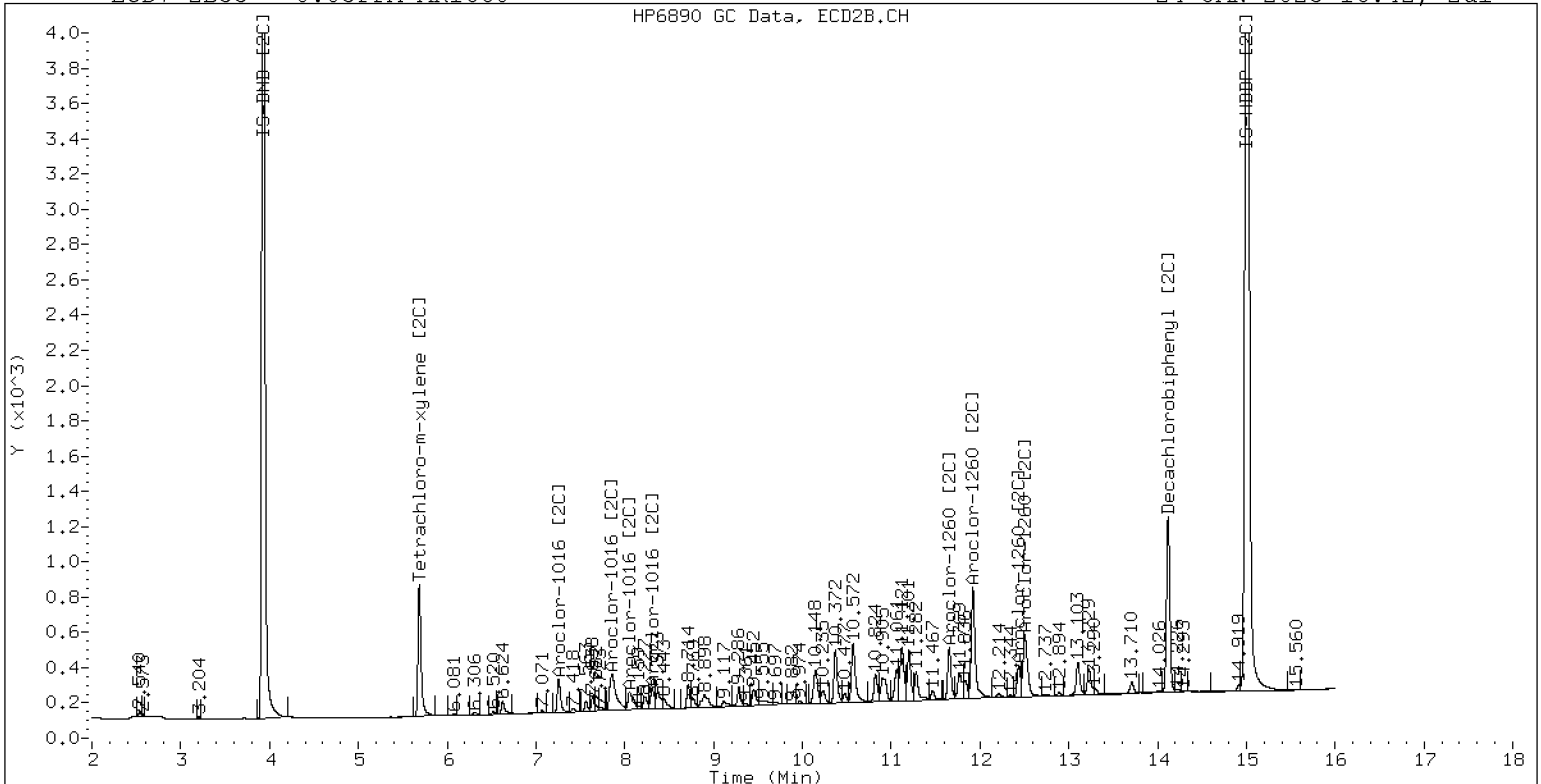
24-JAN-2023 16:42, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 0.05PPM AR1660

24-JAN-2023 16:42, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242316ECD7.D  
Data file 2: /230124.b/230124.b/01242316ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 1.0PPM AR1660  
Client ID:  
Injection Date: 24-JAN-2023 17:03  
Report Date: 01/25/2023 11:34  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col<br>Shift | ZB5 Col<br>Response | RT     | ZB35 Col<br>Shift | ZB35 Col<br>Response | ZB5<br>on col | ZB35<br>on col | RPD  | Compound/Flag        |
|--------|------------------|---------------------|--------|-------------------|----------------------|---------------|----------------|------|----------------------|
| 5.809  | 0.000            | 1033475             | 5.685  | -0.002            | 672800               | 154.9         | 153.6          | 0.8  | Tetrachloro-m-xylene |
| 13.892 | 0.000            | 1125556             | 14.122 | 0.002             | 1078539              | 148.0         | 164.3          | 10.4 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 472076      | -6.2 |
| Hexabromobiphenyl  | 647433         | 711071      | 9.8  |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 323926      | -3.9 |
| Hexabromobiphenyl  | 382032         | 413585      | 8.3  |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |        |        | ZB35 Col |                          |       |        |        |               |
|--------------------------|-------|-------|--------|--------|----------|--------------------------|-------|--------|--------|---------------|
| Aroclor                  | Peak# | RT    | Shift  | Area   | Amount   | Peak#                    | RT    | Shift  | Area   | Amount        |
| Aroclor-1016             | 1     | 7.270 | -0.000 | 155505 | 886.5    | 1                        | 7.254 | -0.001 | 153668 | 874.6         |
| Aroclor-1016             | 2     | 7.649 | -0.001 | 552101 | 949.8    | 2                        | 7.849 | -0.002 | 369677 | 960.2         |
| Aroclor-1016             | 3     | 7.786 | -0.002 | 223973 | 837.5    | 3                        | 8.048 | -0.003 | 152418 | 970.1         |
| Aroclor-1016             | 4     | 8.402 | -0.001 | 169003 | 982.4    | 4                        | 8.304 | -0.001 | 110311 | 895.6         |
| Total CollAve (4 peaks): |       |       |        | 914.1  |          | Total Col2Ave (4 peaks): |       |        |        | 925.1 RPD = 1 |
| Corrected Ave (3 peaks): |       |       |        | 891.3  |          | Corrected Ave (3 peaks): |       |        |        | 910.1 RPD = 2 |

CalAmt %D: -8.6

CalAmt %D: -7.5

|                          |   |        |        |        |       |                          |        |        |        |               |
|--------------------------|---|--------|--------|--------|-------|--------------------------|--------|--------|--------|---------------|
| Aroclor-1260             | 1 | 11.043 | -0.001 | 359074 | 900.0 | 1                        | 11.653 | -0.001 | 274365 | 919.6         |
| Aroclor-1260             | 2 | 11.360 | -0.000 | 374067 | 912.1 | 2                        | 11.917 | -0.000 | 713881 | 945.7         |
| Aroclor-1260             | 3 | 11.733 | -0.001 | 959026 | 888.3 | 3                        | 12.436 | -0.000 | 190968 | 1015.0        |
| Aroclor-1260             | 4 | 12.137 | -0.002 | 521189 | 934.3 | 4                        | 12.502 | -0.000 | 465680 | 953.2         |
| Aroclor-1260             | 5 | 12.242 | -0.002 | 217473 | 894.4 | NS                       | ---    |        |        | ----          |
| Total CollAve (5 peaks): |   |        |        | 905.8  |       | Total Col2Ave (4 peaks): |        |        |        | 958.4 RPD = 6 |
| Corrected Ave (4 peaks): |   |        |        | 898.7  |       | Corrected Ave (3 peaks): |        |        |        | 939.5 RPD = 4 |

CalAmt %D: -9.4

CalAmt %D: -4.2

Total PCB Area Coll (5.909 - 13.792) = 10234908 Coll Total PCB = 1.9 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 6685547 Col2 Total PCB = 2.0 ppm\*

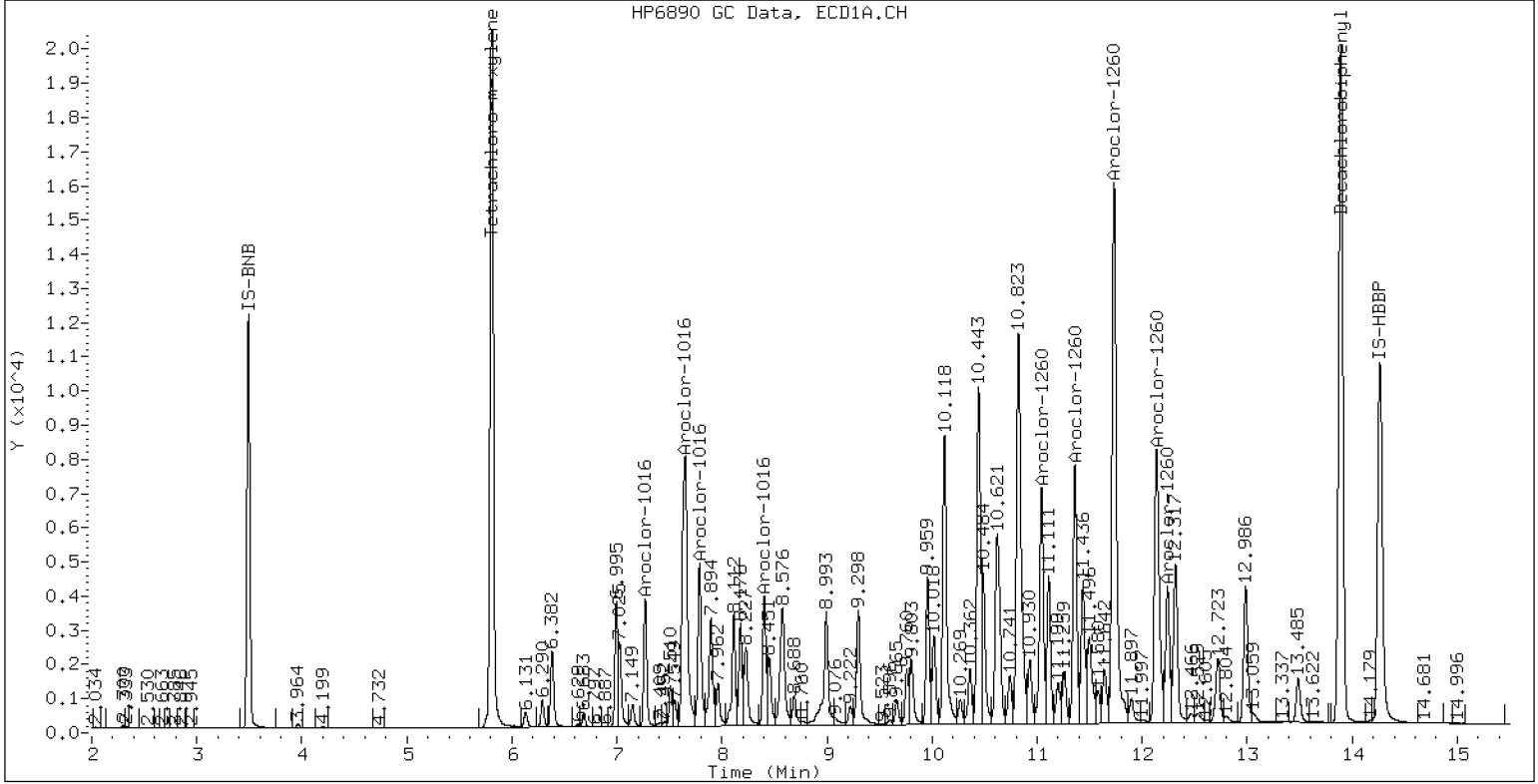
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 1.0PPM AR1660

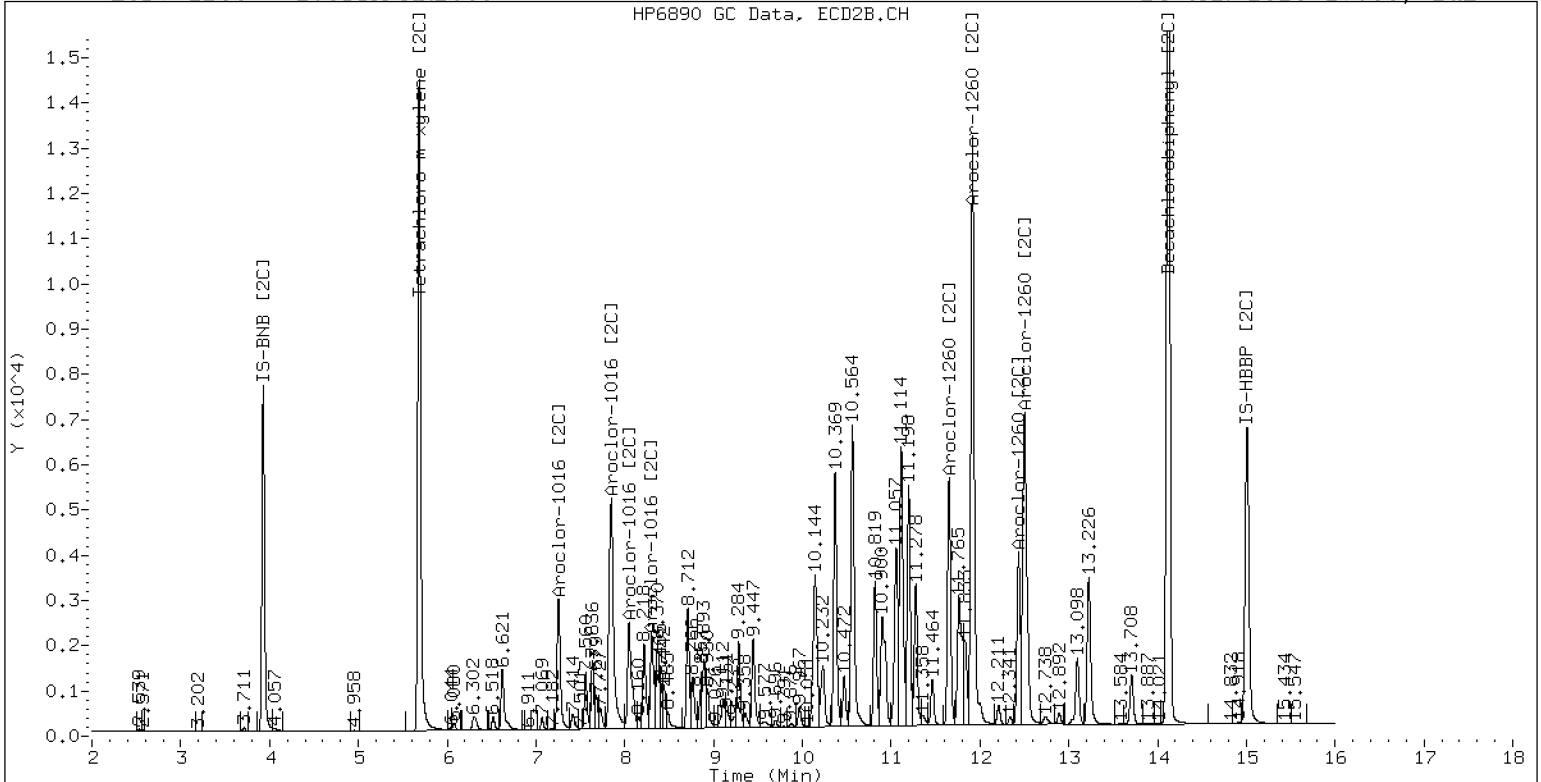
24-JAN-2023 17:03, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 1.0PPM AR1660

24-JAN-2023 17:03, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242317ECD7.D  
Data file 2: /230124.b/230124.b/01242317ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.1PPM AR1660  
Client ID:  
Injection Date: 24-JAN-2023 17:24  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |                | ZB35 Col |                | ZB5    | ZB35   | RPD  | Compound/Flag |     |                      |
|---------|----------------|----------|----------------|--------|--------|------|---------------|-----|----------------------|
| RT      | Shift Response | RT       | Shift Response | on col | on col |      |               |     |                      |
| 5.808   | -0.001         | 117058   | 5.686          | -0.001 | 76340  | 17.3 | 17.1          | 1.2 | Tetrachloro-m-xylene |
| 13.892  | 0.000          | 140818   | 14.119         | -0.001 | 113773 | 17.4 | 16.5          | 5.2 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 479756      | -4.7 |
| Hexabromobiphenyl  | 647433         | 756424      | 16.8 |

| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 330987      | -1.8 |
| Hexabromobiphenyl  | 382032         | 433619      | 13.5 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |       |        |        | ZB35 Col                 |        |       |       |               |
|--------------------------|-------|--------|-------|--------|--------|--------------------------|--------|-------|-------|---------------|
| Aroclor                  | Peak# | RT     | Shift | Area   | Amount | Peak#                    | RT     | Shift | Area  | Amount        |
| Aroclor-1016             | 1     | 7.271  | 0.001 | 19848  | 111.3  | 1                        | 7.255  | 0.000 | 19353 | 107.8         |
| Aroclor-1016             | 2     | 7.656  | 0.005 | 63555  | 107.6  | 2                        | 7.853  | 0.002 | 43099 | 109.6         |
| Aroclor-1016             | 3     | 7.793  | 0.004 | 30749  | 113.1  | 3                        | 8.053  | 0.003 | 18527 | 115.4         |
| Aroclor-1016             | 4     | 8.406  | 0.003 | 18961  | 108.5  | 4                        | 8.307  | 0.002 | 14145 | 112.4         |
| Total CollAve (4 peaks): |       |        |       | 110.1  |        | Total Col2Ave (4 peaks): |        |       |       | 111.3 RPD = 1 |
| Corrected Ave (3 peaks): |       |        |       | 109.1  |        | Corrected Ave (3 peaks): |        |       |       | 109.9 RPD = 1 |
| CalAmt %D:               |       |        |       | 10.1   |        | CalAmt %D:               |        |       |       | 11.3          |
| Aroclor-1260             | 1     | 11.046 | 0.002 | 41864  | 98.6   | 1                        | 11.655 | 0.001 | 32043 | 102.4         |
| Aroclor-1260             | 2     | 11.362 | 0.001 | 42073  | 96.4   | 2                        | 11.920 | 0.002 | 82285 | 104.0         |
| Aroclor-1260             | 3     | 11.739 | 0.004 | 111005 | 96.7   | 3                        | 12.437 | 0.001 | 19416 | 98.4          |
| Aroclor-1260             | 4     | 12.144 | 0.004 | 56707  | 95.6   | 4                        | 12.504 | 0.002 | 53558 | 104.6         |
| Aroclor-1260             | 5     | 12.245 | 0.001 | 24958  | 96.5   | NS                       | ---    |       |       | ----          |
| Total CollAve (5 peaks): |       |        |       | 96.8   |        | Total Col2Ave (4 peaks): |        |       |       | 102.3 RPD = 6 |
| Corrected Ave (4 peaks): |       |        |       | 96.3   |        | Corrected Ave (3 peaks): |        |       |       | 101.6 RPD = 5 |
| CalAmt %D:               |       |        |       | -3.2   |        | CalAmt %D:               |        |       |       | 2.3           |

Total PCB Area Coll (5.909 - 13.792) = 1238855 Coll Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 777713 Col2 Total PCB = 0.2 ppm\*

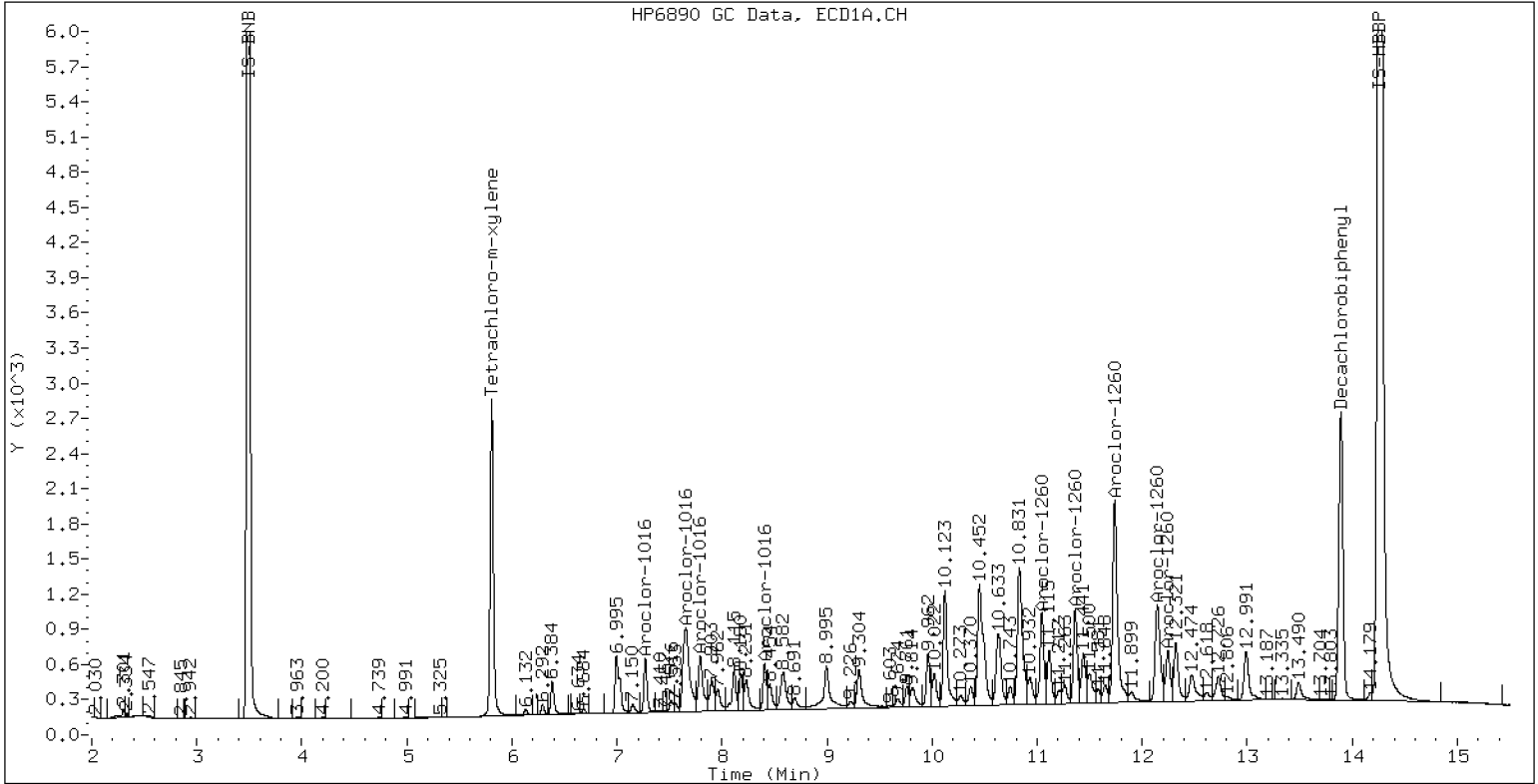
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.1PPM AR1660

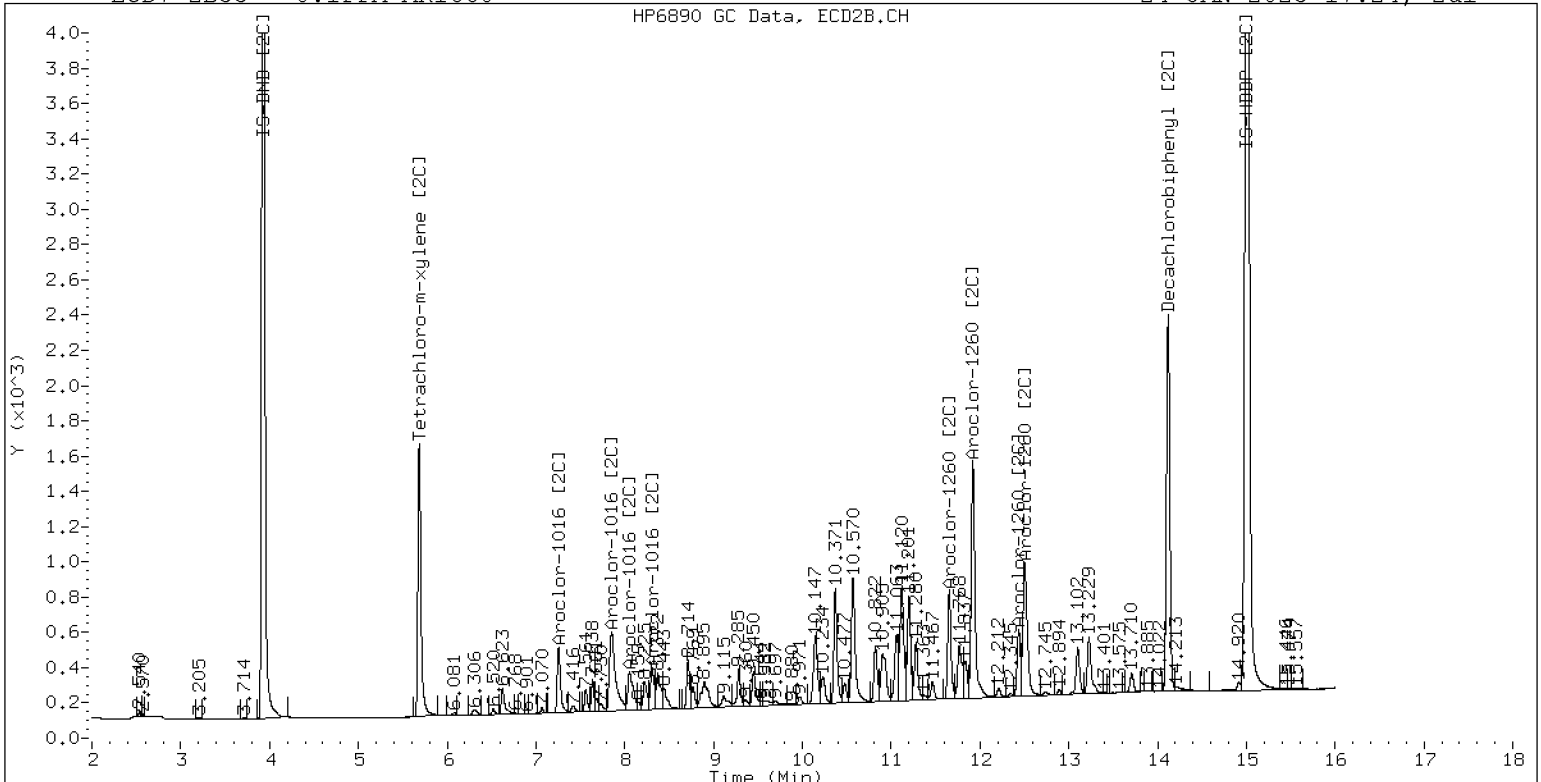
24-JAN-2023 17:24, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.1PPM AR1660

24-JAN-2023 17:24, 2ul



ZB-35 Manual Integration: NO



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242318ECD7.D  
Data file 2: /230124.b/230124.b/01242318ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.5PPM AR1660  
Client ID:  
Injection Date: 24-JAN-2023 17:45  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.809  | 0.000         | 534053   | 5.686  | -0.000         | 348900   | 79.1       | 77.8        | 1.6 | Tetrachloro-m-xylene |
| 13.891 | -0.001        | 614978   | 14.120 | 0.000          | 552784   | 74.4       | 77.5        | 4.0 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 477720      | -5.1 |
| Hexabromobiphenyl  | 647433         | 772816      | 19.4 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 331694      | -1.5 |
| Hexabromobiphenyl  | 382032         | 449559      | 17.7 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |       |        |        | ZB35 Col                 |       |        |        |               |
|--------------------------|-------|-------|-------|--------|--------|--------------------------|-------|--------|--------|---------------|
| Aroclor                  | Peak# | RT    | Shift | Area   | Amount | Peak#                    | RT    | Shift  | Area   | Amount        |
| Aroclor-1016             | 1     | 7.270 | 0.000 | 84322  | 475.0  | 1                        | 7.254 | -0.000 | 84986  | 472.4         |
| Aroclor-1016             | 2     | 7.650 | 0.000 | 294429 | 500.6  | 2                        | 7.850 | -0.001 | 198065 | 502.4         |
| Aroclor-1016             | 3     | 7.789 | 0.000 | 122151 | 451.4  | 3                        | 8.050 | -0.000 | 81378  | 505.8         |
| Aroclor-1016             | 4     | 8.404 | 0.000 | 87760  | 504.1  | 4                        | 8.305 | -0.000 | 59656  | 473.0         |
| Total CollAve (4 peaks): |       |       |       | 482.8  |        | Total Col2Ave (4 peaks): |       |        |        | 488.4 RPD = 1 |
| Corrected Ave (3 peaks): |       |       |       | 475.6  |        | Corrected Ave (3 peaks): |       |        |        | 482.6 RPD = 1 |

CalAmt %D: -3.4

CalAmt %D: -2.3

|                          |   |        |       |        |       |                          |        |        |        |               |
|--------------------------|---|--------|-------|--------|-------|--------------------------|--------|--------|--------|---------------|
| Aroclor-1260             | 1 | 11.044 | 0.000 | 193843 | 447.0 | 1                        | 11.653 | -0.000 | 146980 | 453.2         |
| Aroclor-1260             | 2 | 11.361 | 0.000 | 198052 | 444.3 | 2                        | 11.917 | -0.001 | 376388 | 458.7         |
| Aroclor-1260             | 3 | 11.734 | 0.000 | 505614 | 430.9 | 3                        | 12.436 | -0.000 | 98369  | 481.0         |
| Aroclor-1260             | 4 | 12.139 | 0.000 | 264950 | 437.0 | 4                        | 12.501 | -0.001 | 252455 | 475.4         |
| Aroclor-1260             | 5 | 12.244 | 0.000 | 112421 | 425.4 | NS                       | ---    |        |        | ----          |
| Total CollAve (5 peaks): |   |        |       | 436.9  |       | Total Col2Ave (4 peaks): |        |        |        | 467.1 RPD = 7 |
| Corrected Ave (4 peaks): |   |        |       | 434.4  |       | Corrected Ave (3 peaks): |        |        |        | 462.4 RPD = 6 |

CalAmt %D: -12.6

CalAmt %D: -6.6

Total PCB Area Coll (5.909 - 13.792) = 5412241 Coll Total PCB = 1.0 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 3551064 Col2 Total PCB = 1.0 ppm\*

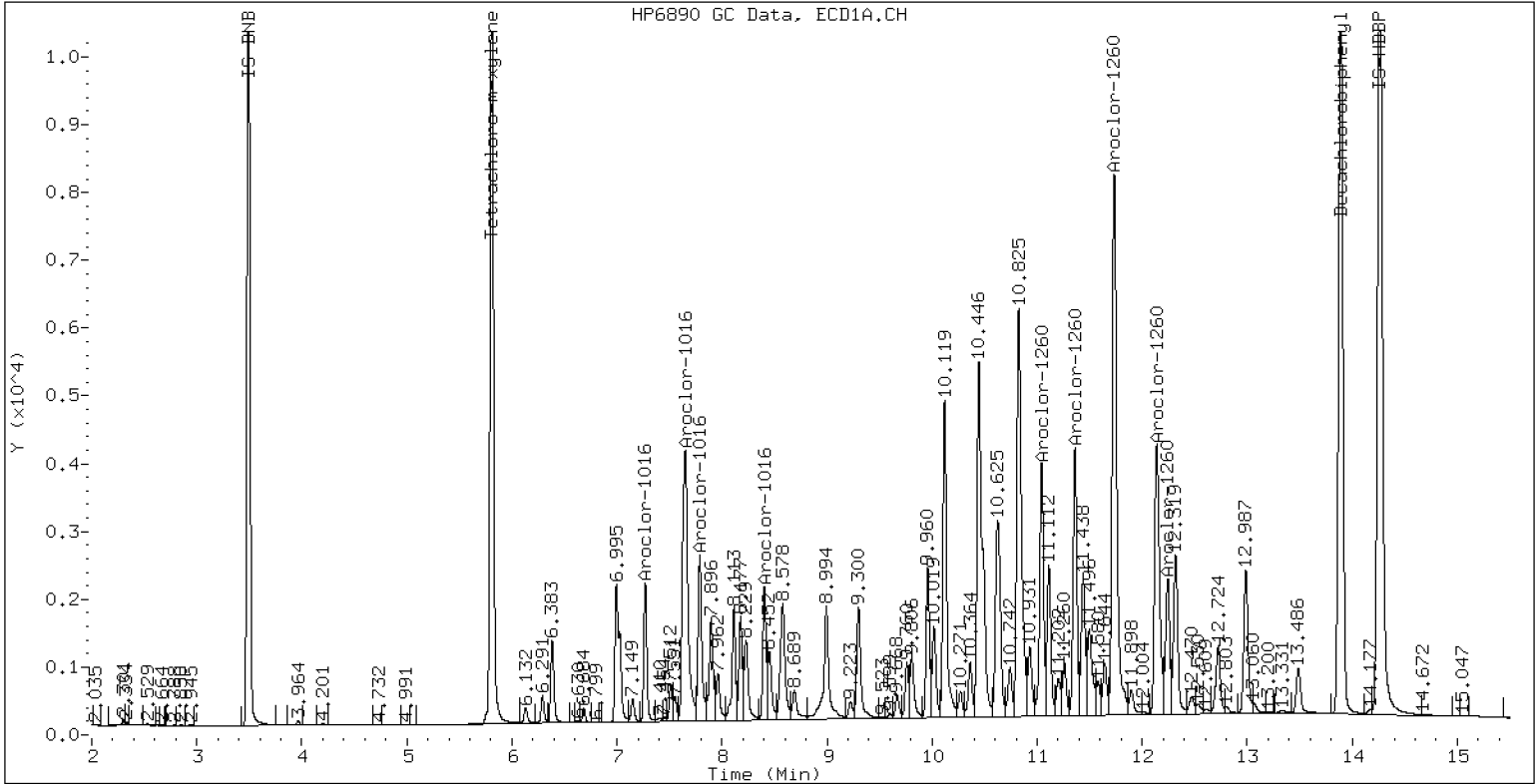
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.5PPM AR1660

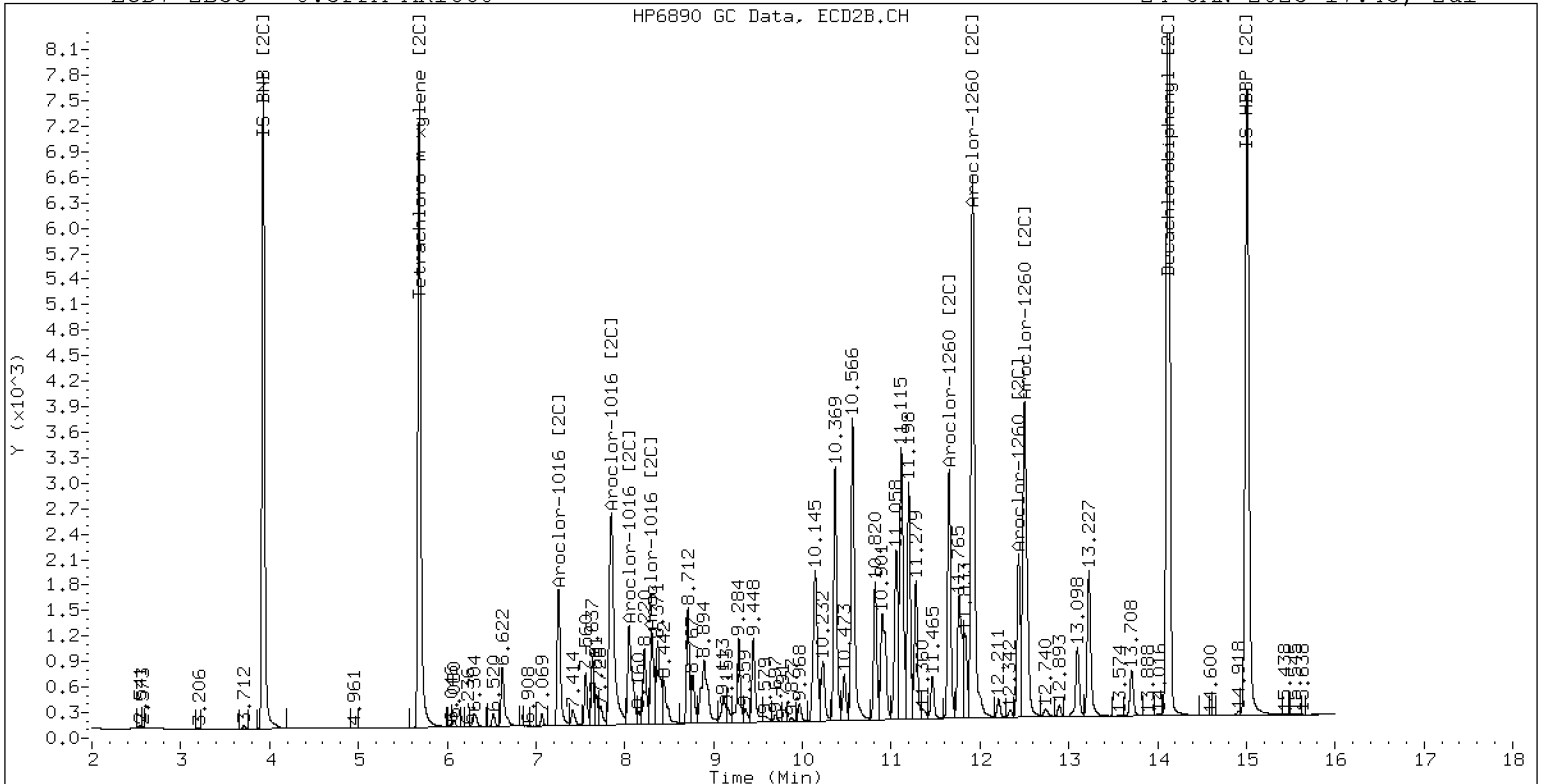
24-JAN-2023 17:45, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.5PPM AR1660

24-JAN-2023 17:45, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242319ECD7.D  
Data file 2: /230124.b/230124.b/01242319ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: AR1242.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.25PPM 1242  
Client ID:  
Injection Date: 24-JAN-2023 18:06  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.809  | -0.000        | 317773   | 5.686  | -0.000         | 205627   | 47.7       | 46.6        | 2.2 | Tetrachloro-m-xylene |
| 13.892 | -0.000        | 322814   | 14.121 | 0.001          | 269935   | 36.0       | 36.5        | 1.4 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 471690      | -6.3 |
| Hexabromobiphenyl  | 647433         | 839322      | 29.6 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 326260      | -3.2 |
| Hexabromobiphenyl  | 382032         | 466396      | 22.1 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |       |        |                          | ZB35 Col |       |       |       |         |
|--------------------------|-------|-------|-------|--------|--------------------------|----------|-------|-------|-------|---------|
| Aroclor                  | Peak# | RT    | Shift | Area   | Amount                   | Peak#    | RT    | Shift | Area  | Amount  |
| Aroclor-1242             | 1     | 7.271 | 0.000 | 36109  | 250.0                    | 1        | 7.256 | 0.000 | 35672 | 250.0   |
| Aroclor-1242             | 2     | 7.655 | 0.000 | 118172 | 250.0                    | 2        | 7.853 | 0.000 | 79233 | 250.0   |
| Aroclor-1242             | 3     | 8.407 | 0.000 | 35110  | 250.0                    | 3        | 9.160 | 0.000 | 24814 | 250.0   |
| Aroclor-1242             | 4     | 8.581 | 0.000 | 53037  | 250.0                    | 4        | 9.587 | 0.000 | 32887 | 250.0   |
| Total Col1Ave (4 peaks): |       |       |       | 250.0  | Total Col2Ave (4 peaks): |          |       |       | 250.0 | RPD = 0 |
| Corrected Ave (3 peaks): |       |       |       | 250.0  | Corrected Ave (3 peaks): |          |       |       | 250.0 | RPD = 0 |

Total PCB Area Col1 (5.909 - 13.792) = 930958 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 567613 Col2 Total PCB = 0.2 ppm\*

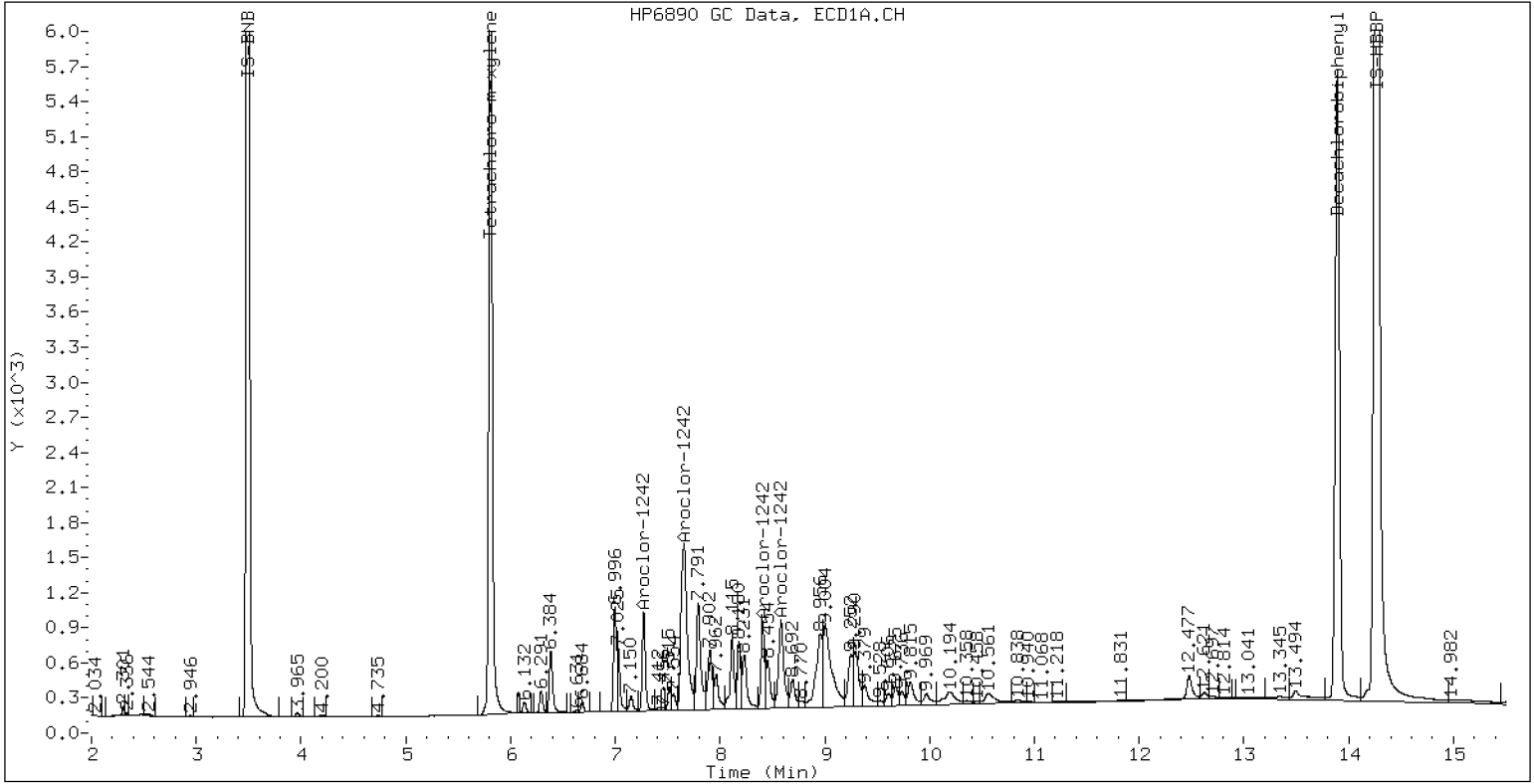
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPM 1242

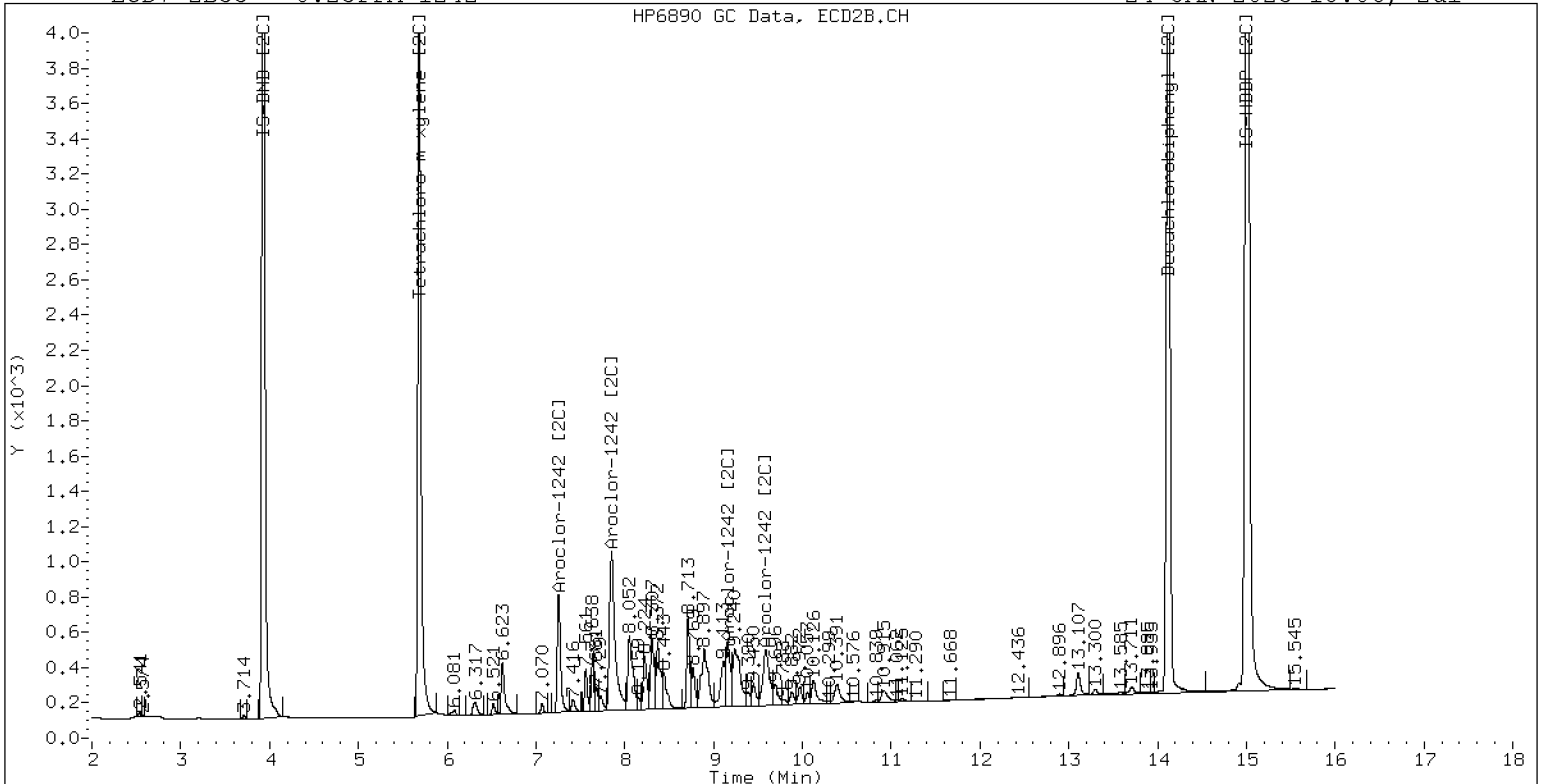
24-JAN-2023 18:06, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPM 1242

24-JAN-2023 18:06, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242320ECD7.D  
Data file 2: /230124.b/230124.b/01242320ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: AR1248.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.25PPM 1248  
Client ID:  
Injection Date: 24-JAN-2023 18:27  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.809  | -0.000        | 266561   | 5.686  | -0.001         | 171841   | 38.5       | 38.0        | 1.3 | Tetrachloro-m-xylene |
| 13.892 | 0.001         | 334524   | 14.120 | 0.000          | 281569   | 36.6       | 37.7        | 3.1 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 489828      | -2.7 |
| Hexabromobiphenyl  | 647433         | 855612      | 32.2 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 334539      | -0.7 |
| Hexabromobiphenyl  | 382032         | 470415      | 23.1 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |       |        |                          | ZB35 Col |       |       |       |         |
|--------------------------|-------|-------|-------|--------|--------------------------|----------|-------|-------|-------|---------|
| Aroclor                  | Peak# | RT    | Shift | Area   | Amount                   | Peak#    | RT    | Shift | Area  | Amount  |
| Aroclor-1248             | 1     | 8.406 | 0.000 | 61259  | 250.0                    | 1        | 8.305 | 0.000 | 37805 | 250.0   |
| Aroclor-1248             | 2     | 8.580 | 0.000 | 78143  | 250.0                    | 2        | 8.712 | 0.000 | 40692 | 250.0   |
| Aroclor-1248             | 3     | 8.999 | 0.000 | 149476 | 250.0                    | 3        | 9.156 | 0.000 | 49723 | 250.0   |
| Aroclor-1248             | 4     | 9.294 | 0.000 | 73986  | 250.0                    | 4        | 9.582 | 0.000 | 61494 | 250.0   |
| Total Col1Ave (4 peaks): |       |       |       | 250.0  | Total Col2Ave (4 peaks): |          |       |       | 250.0 | RPD = 0 |
| Corrected Ave (3 peaks): |       |       |       | 250.0  | Corrected Ave (3 peaks): |          |       |       | 250.0 | RPD = 0 |

Total PCB Area Col1 (5.909 - 13.792) = 1237662 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 773955 Col2 Total PCB = 0.2 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242321ECD7.D  
Data file 2: /230124.b/230124.b/01242321ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: AR1254.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.25PPM 1254  
Client ID:  
Injection Date: 24-JAN-2023 18:48  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.808   | -0.001 | 258819   | 5.684  | -0.002 | 171764   | 37.7   | 38.1 | 1.1           | Tetrachloro-m-xylene |
| 13.893  | 0.001  | 343162   | 14.119 | -0.001 | 283996   | 36.8   | 37.9 | 2.9           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 486231      | -3.4 |
| Hexabromobiphenyl  | 647433         | 871523      | 34.6 |

| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 333658      | -1.0 |
| Hexabromobiphenyl  | 382032         | 471925      | 23.5 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |       |        |        | ZB35 Col                 |        |       |        |               |
|--------------------------|-------|--------|-------|--------|--------|--------------------------|--------|-------|--------|---------------|
| Aroclor                  | Peak# | RT     | Shift | Area   | Amount | Peak#                    | RT     | Shift | Area   | Amount        |
| Aroclor-1254             | 1     | 9.299  | 0.000 | 123887 | 250.0  | 1                        | 9.448  | 0.000 | 60516  | 250.0         |
| Aroclor-1254             | 2     | 9.378  | 0.000 | 52896  | 250.0  | 2                        | 9.969  | 0.000 | 48914  | 250.0         |
| Aroclor-1254             | 3     | 9.669  | 0.000 | 79378  | 250.0  | 3                        | 10.121 | 0.000 | 106698 | 250.0         |
| Aroclor-1254             | 4     | 9.808  | 0.000 | 155542 | 250.0  | 4                        | 10.372 | 0.000 | 106700 | 250.0         |
| Aroclor-1254             | 5     | 10.177 | 0.000 | 101144 | 250.0  | 5                        | 10.569 | 0.000 | 59429  | 250.0         |
| Total CollAve (5 peaks): |       |        |       | 250.0  |        | Total Col2Ave (5 peaks): |        |       |        | 250.0 RPD = 0 |
| Corrected Ave (4 peaks): |       |        |       | 250.0  |        | Corrected Ave (4 peaks): |        |       |        | 250.0 RPD = 0 |

Total PCB Area Coll (5.909 - 13.792) = 1659821 Coll Total PCB = 0.3 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 1016659 Col2 Total PCB = 0.3 ppm\*

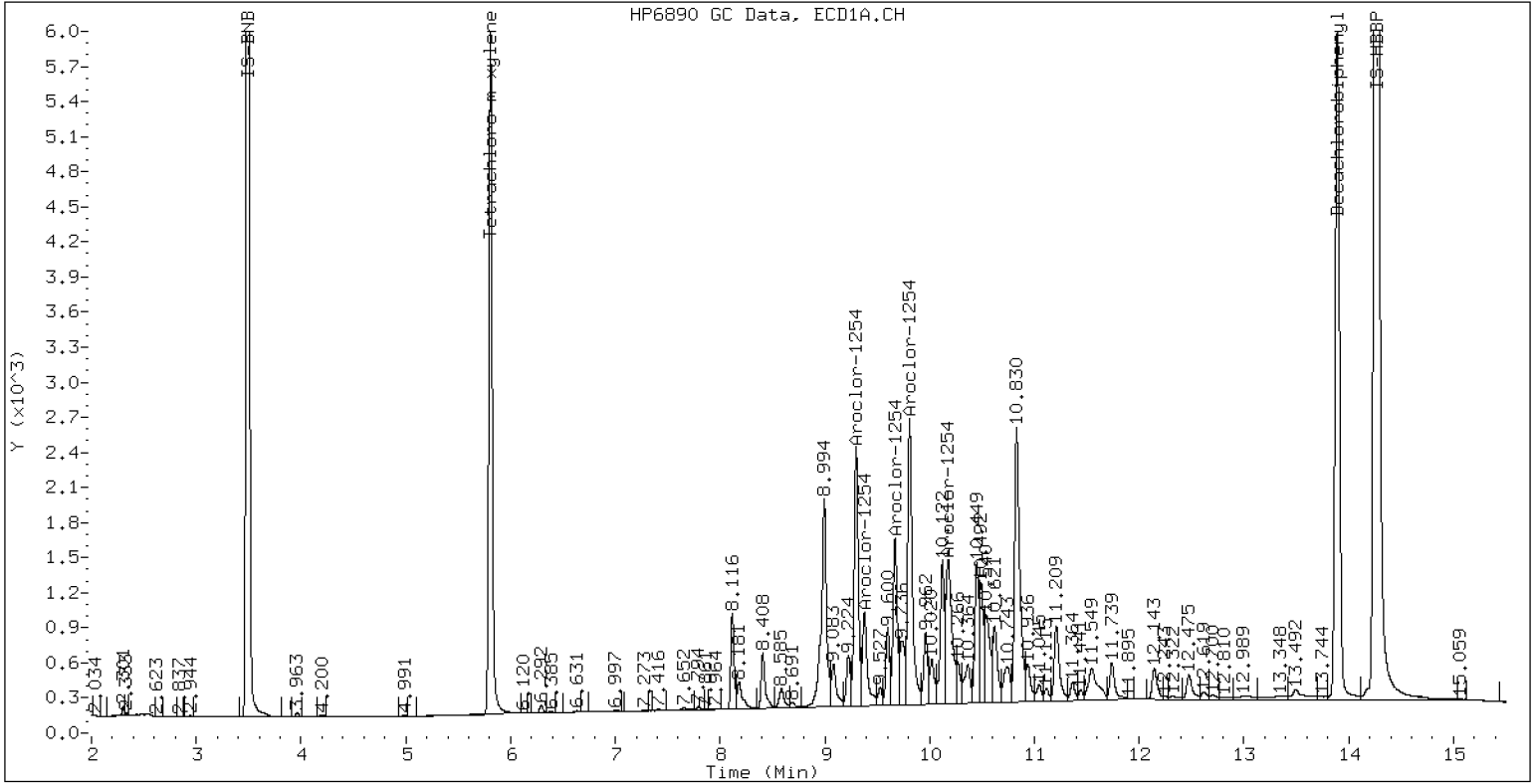
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPM 1254

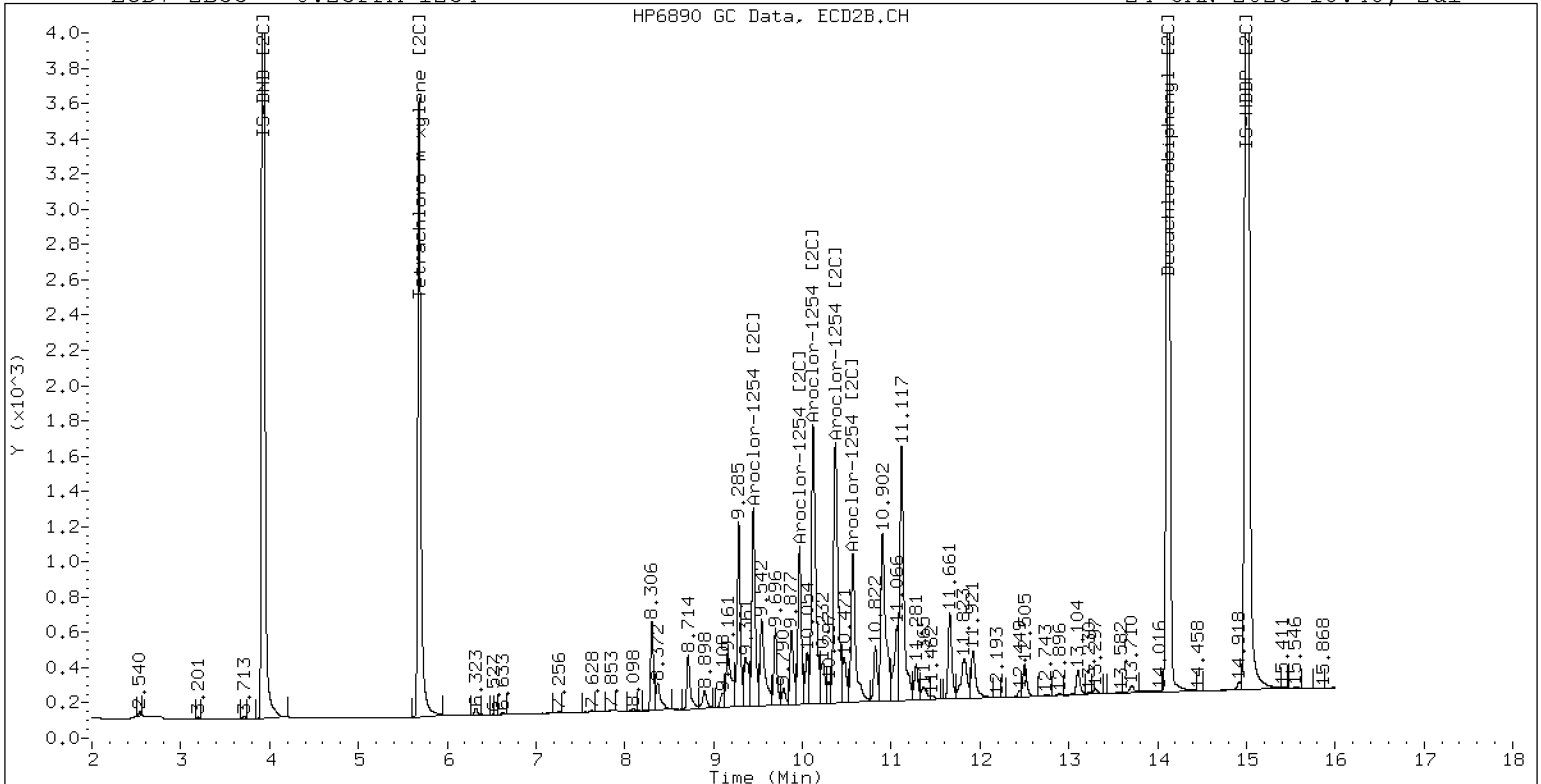
24-JAN-2023 18:48, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPM 1254

24-JAN-2023 18:48, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242322ECD7.D  
Data file 2: /230124.b/230124.b/01242322ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: AR2162.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.25PPM 2162  
Client ID:  
Injection Date: 24-JAN-2023 19:09  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.809   | -0.000 | 272296   | 5.686  | -0.001 | 173237   | 39.1   | 38.6 | 1.3           | Tetrachloro-m-xylene |
| 13.893  | 0.001  | 347331   | 14.120 | -0.000 | 282892   | 36.8   | 37.2 | 1.2           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 492470      | -2.2 |
| Hexabromobiphenyl  | 647433         | 883652      | 36.5 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 331807      | -1.5 |
| Hexabromobiphenyl  | 382032         | 479356      | 25.5 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |       |       |        | ZB35 Col                 |       |       |       |               |
|--------------------------|-------|-------|-------|-------|--------|--------------------------|-------|-------|-------|---------------|
| Aroclor                  | Peak# | RT    | Shift | Area  | Amount | Peak#                    | RT    | Shift | Area  | Amount        |
| Aroclor-1221             | 1     | 4.733 | 0.000 | 9100  | 250.0  | 1                        | 4.959 | 0.000 | 6081  | 250.0         |
| Aroclor-1221             | 2     | 6.134 | 0.000 | 18608 | 250.0  | 2                        | 6.298 | 0.000 | 13325 | 250.0         |
| Aroclor-1221             | 3     | 6.384 | 0.000 | 43198 | 250.0  | 3                        | 6.623 | 0.000 | 22491 | 250.0         |
| Total CollAve (3 peaks): |       |       |       | 250.0 |        | Total Col2Ave (3 peaks): |       |       |       | 250.0 RPD = 0 |
| Corrected Ave: < 3 Peaks |       |       |       |       |        | Corrected Ave: < 3 Peaks |       |       |       |               |

|                          |   |        |       |        |       |                          |        |       |        |               |
|--------------------------|---|--------|-------|--------|-------|--------------------------|--------|-------|--------|---------------|
| Aroclor-1262             | 1 | 10.832 | 0.000 | 89339  | 250.0 | 1                        | 11.200 | 0.000 | 117288 | 250.0         |
| Aroclor-1262             | 2 | 12.246 | 0.000 | 141007 | 250.0 | 2                        | 11.653 | 0.000 | 99740  | 250.0         |
| Aroclor-1262             | 3 | 12.321 | 0.000 | 153089 | 250.0 | 3                        | 12.434 | 0.000 | 106212 | 250.0         |
| Aroclor-1262             | 4 | 12.989 | 0.000 | 139497 | 250.0 | 4                        | 12.504 | 0.000 | 170096 | 250.0         |
| Total CollAve (4 peaks): |   |        |       | 250.0  |       | Total Col2Ave (4 peaks): |        |       |        | 250.0 RPD = 0 |
| Corrected Ave (3 peaks): |   |        |       | 250.0  |       | Corrected Ave (3 peaks): |        |       |        | 250.0 RPD = 0 |

Total PCB Area Coll (5.909 - 13.792) = 2446612 Coll Total PCB = 0.4 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 1558387 Col2 Total PCB = 0.4 ppm\*

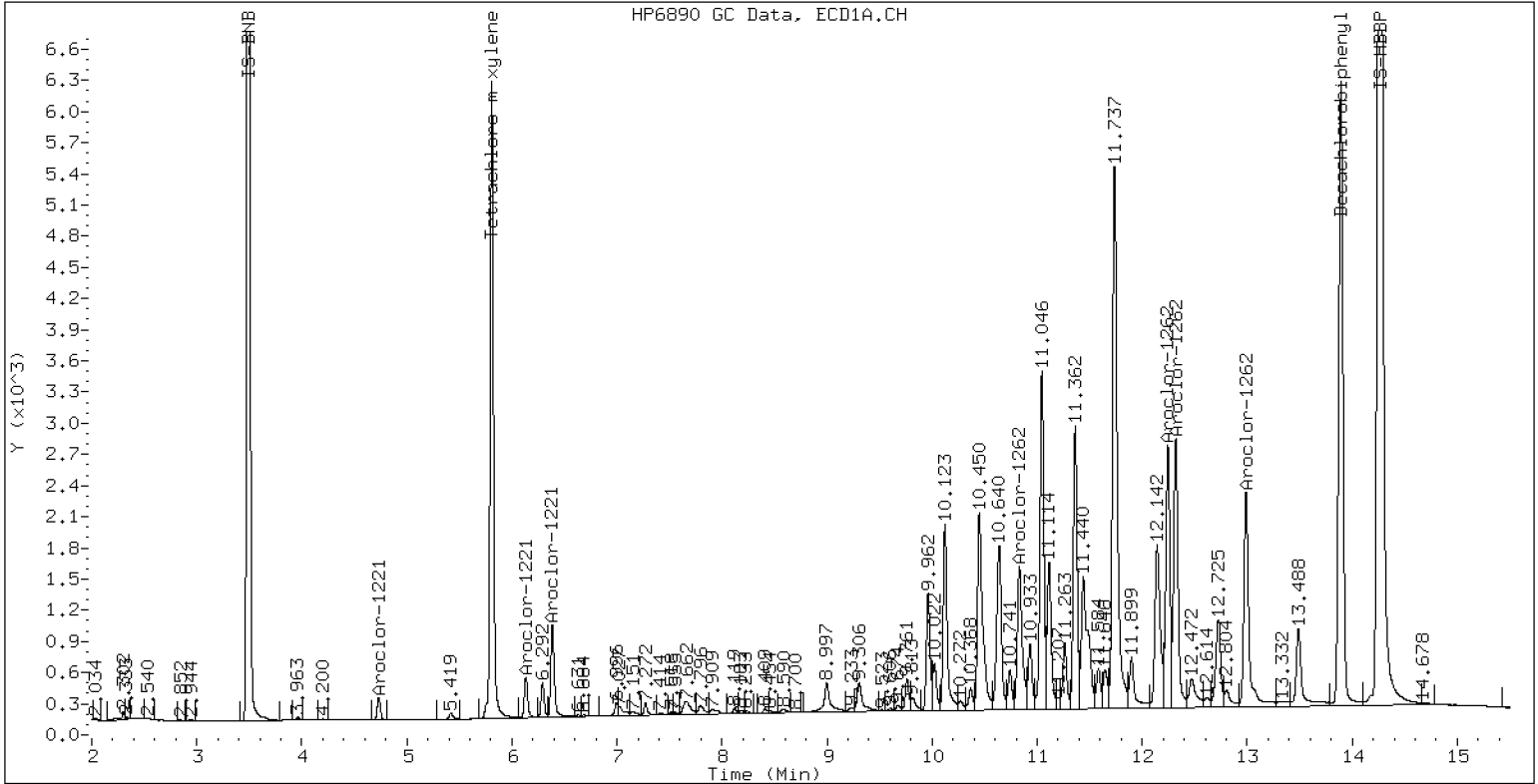
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPM 2162

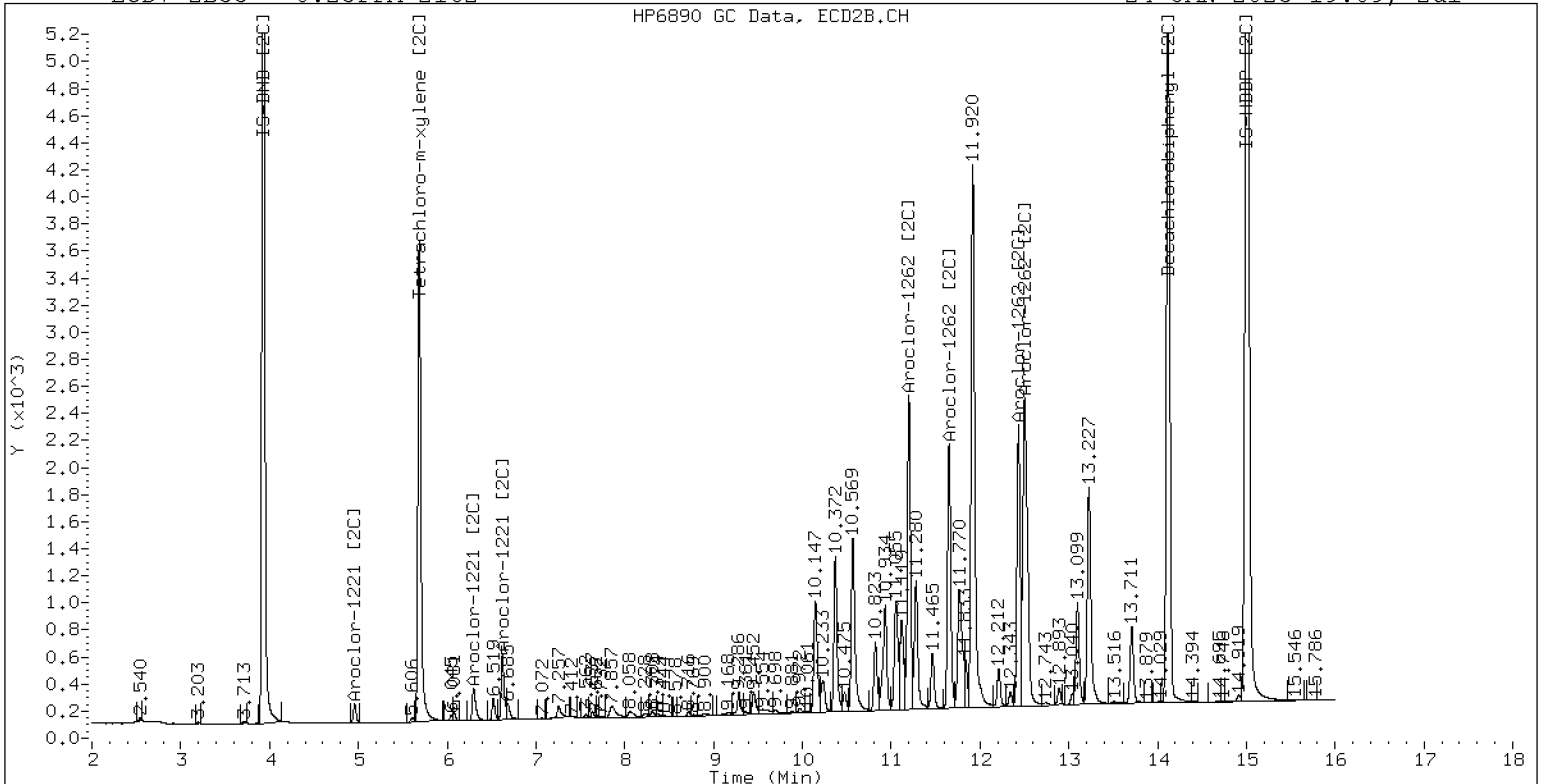
24-JAN-2023 19:09, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPM 2162

24-JAN-2023 19:09, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242323ECD7.D  
Data file 2: /230124.b/230124.b/01242323ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: AR3268.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.25PPM 3268  
Client ID:  
Injection Date: 24-JAN-2023 19:30  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col<br>Shift | Response | RT     | ZB35 Col<br>Shift | Response | ZB5<br>on col | ZB35<br>on col | RPD | Compound/Flag        |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.809  | 0.000            | 277108   | 5.687  | 0.000             | 177359   | 39.7          | 39.1           | 1.5 | Tetrachloro-m-xylene |
| 13.892 | 0.000            | 525503   | 14.120 | 0.000             | 438987   | 53.8          | 57.7           | 7.0 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 493427      | -2.0 |
| Hexabromobiphenyl  | 647433         | 913614      | 41.1 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 335121      | -0.5 |
| Hexabromobiphenyl  | 382032         | 479458      | 25.5 |

\* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 24-JAN-2023

<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                  |       |        |       |        |        | ZB35 Col                 |        |       |        |               |
|--------------------------|-------|--------|-------|--------|--------|--------------------------|--------|-------|--------|---------------|
| Aroclor                  | Peak# | RT     | Shift | Area   | Amount | Peak#                    | RT     | Shift | Area   | Amount        |
| Aroclor-1232             | 1     | 4.733  | 0.000 | 5692   | 250.0  | 1                        | 4.960  | 0.000 | 3725   | 250.0         |
| Aroclor-1232             | 2     | 6.133  | 0.000 | 12828  | 250.0  | 2                        | 7.257  | 0.000 | 20847  | 250.0         |
| Aroclor-1232             | 3     | 7.658  | 0.000 | 64153  | 250.0  | 3                        | 7.854  | 0.000 | 42459  | 250.0         |
| Aroclor-1232             | 4     | 8.584  | 0.000 | 27460  | 250.0  | 4                        | 8.714  | 0.000 | 11797  | 250.0         |
| Total CollAve (4 peaks): |       |        |       | 250.0  |        | Total Col2Ave (4 peaks): |        |       |        | 250.0 RPD = 0 |
| Corrected Ave (3 peaks): |       |        |       | 250.0  |        | Corrected Ave (3 peaks): |        |       |        | 250.0 RPD = 0 |
|                          |       |        |       |        |        |                          |        |       |        |               |
| Aroclor-1268             | 1     | 12.245 | 0.000 | 377314 | 250.0  | 1                        | 12.434 | 0.000 | 279910 | 250.0         |
| Aroclor-1268             | 2     | 12.318 | 0.000 | 376282 | 250.0  | 2                        | 12.501 | 0.000 | 297867 | 250.0         |
| Aroclor-1268             | 3     | 12.699 | 0.000 | 311753 | 250.0  | 3                        | 12.893 | 0.000 | 247943 | 250.0         |
| Aroclor-1268             | 4     | 13.489 | 0.000 | 924293 | 250.0  | 4                        | 13.709 | 0.000 | 765898 | 250.0         |
| Total CollAve (4 peaks): |       |        |       | 250.0  |        | Total Col2Ave (4 peaks): |        |       |        | 250.0 RPD = 0 |
| Corrected Ave (3 peaks): |       |        |       | 250.0  |        | Corrected Ave (3 peaks): |        |       |        | 250.0 RPD = 0 |

Total PCB Area Col1 (5.909 - 13.792) = 3136879 Col1 Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 2269104 Col2 Total PCB = 0.6 ppm\*

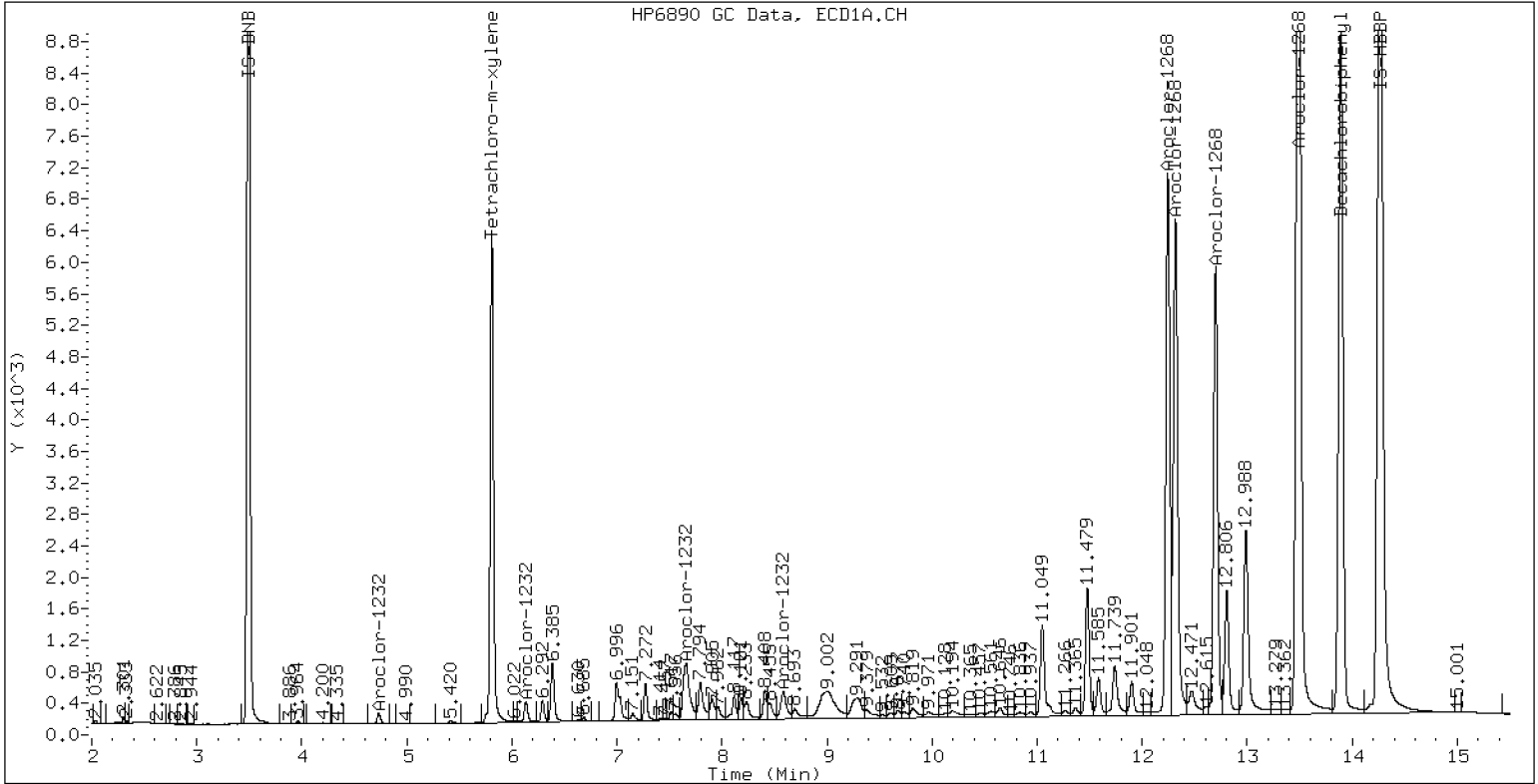
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPM 3268

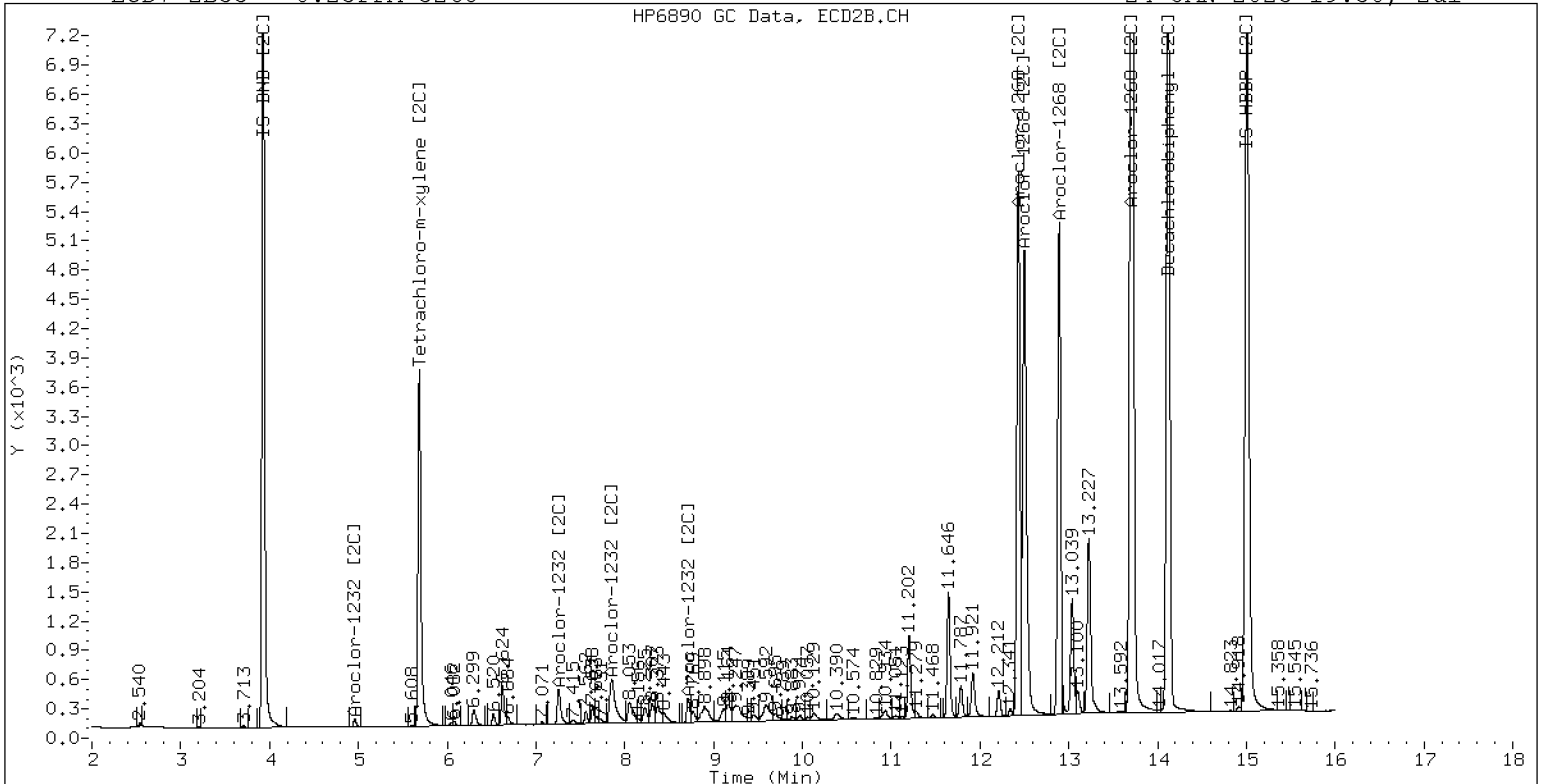
24-JAN-2023 19:30, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPM 3268

24-JAN-2023 19:30, 2u1

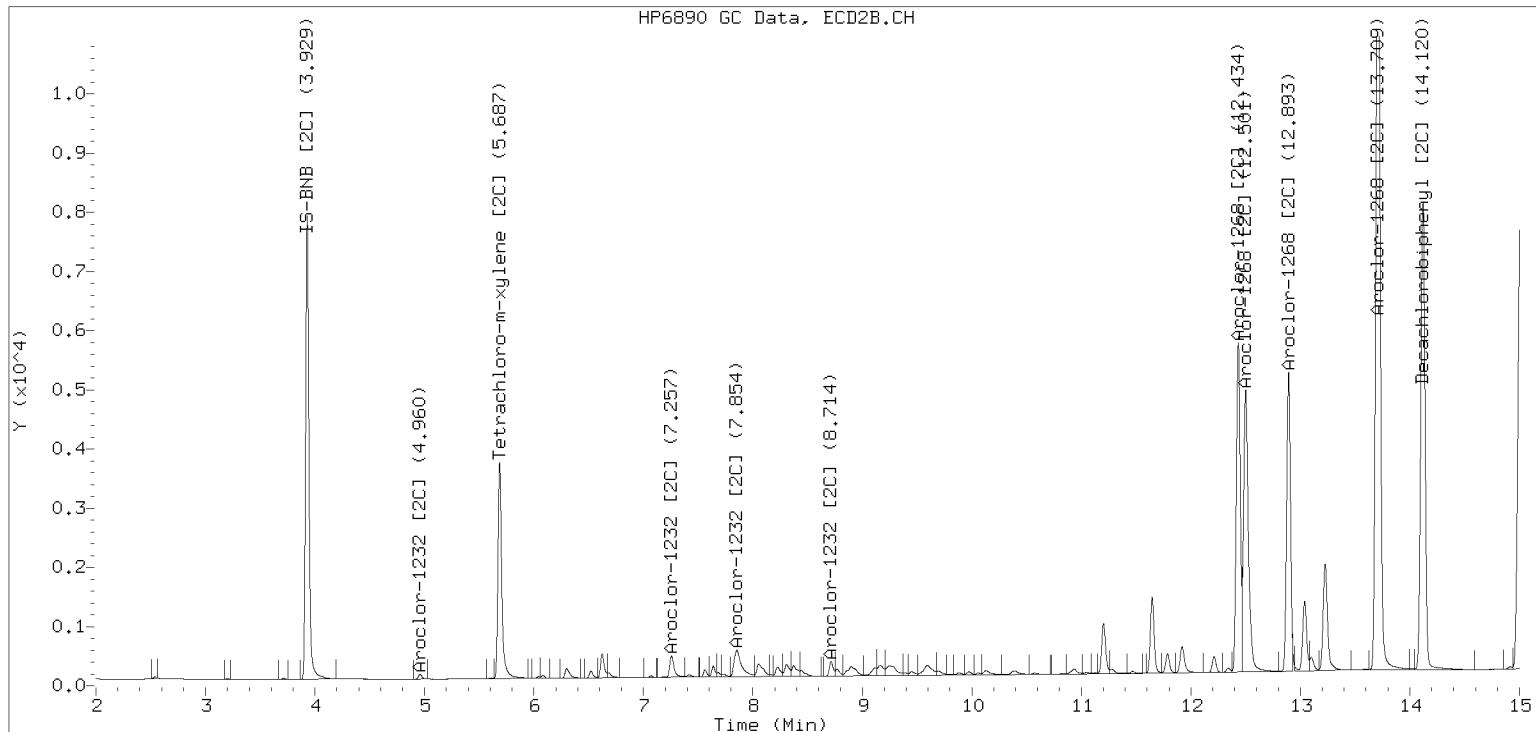


ZB-35 Manual Integration: YES

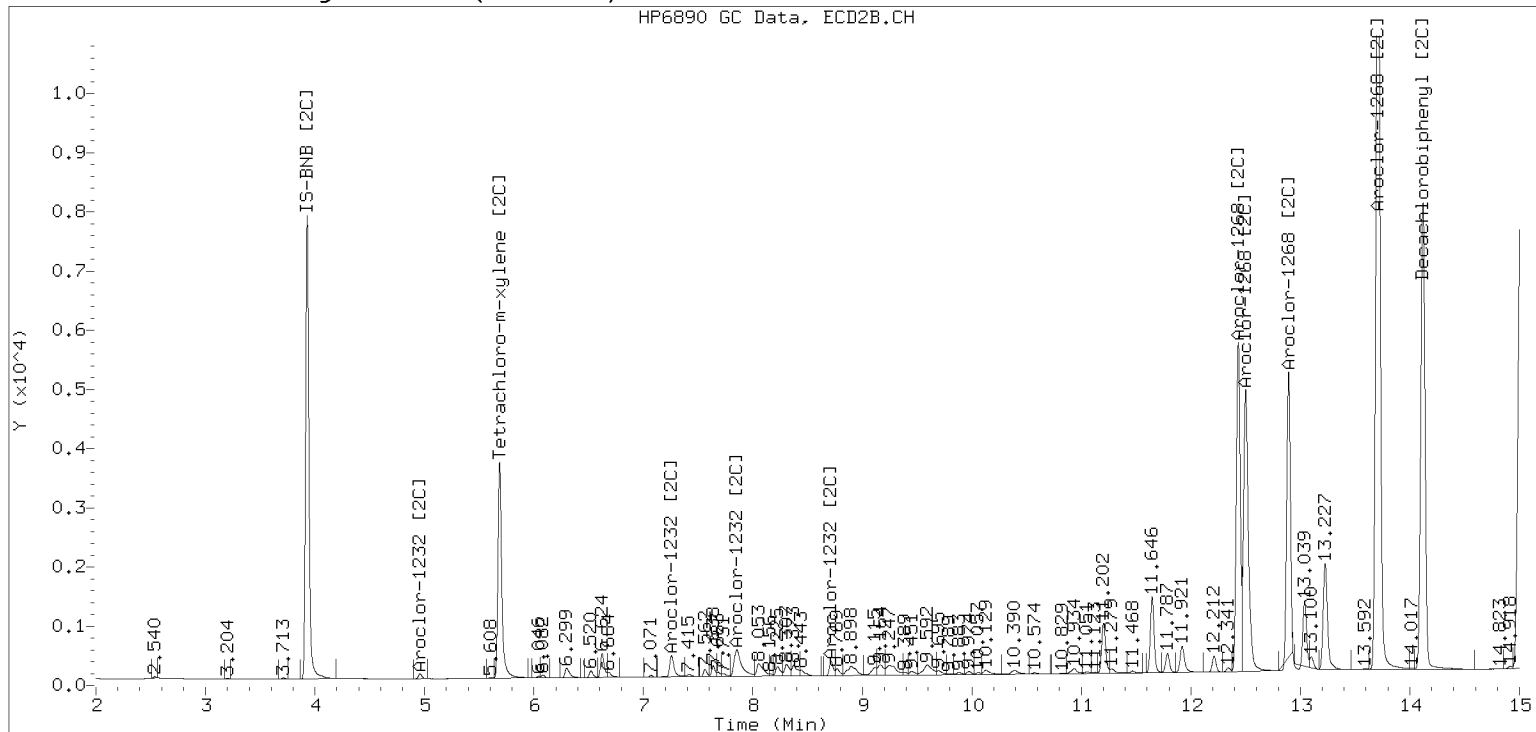
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230124.b/230124.b/01242323ECD7.D Injection Date: 24-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242324ECD7.D  
Data file 2: /230124.b/230124.b/01242324ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660 SCV  
Client ID:  
Injection Date: 24-JAN-2023 19:51  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.809  | -0.000        | 268739   | 5.686  | -0.001         | 172961   | 37.5       | 37.3        | 0.6 | Tetrachloro-m-xylene |
| 13.891 | -0.000        | 381489   | 14.121 | 0.001          | 320416   | 37.9       | 40.2        | 5.9 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 506576      | 0.6  |
| Hexabromobiphenyl  | 647433         | 940129      | 45.2 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 343102      | 1.8  |
| Hexabromobiphenyl  | 382032         | 501702      | 31.3 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |        |                 |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|-----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area   | Amount          |
| Aroclor-1016             | 1     | 7.271  | 0.001  | 40958  | 217.6    | 1                        | 7.255  | 0.001  | 40190  | 216.0           |
| Aroclor-1016             | 2     | 7.655  | 0.004  | 135282 | 216.9    | 2                        | 7.852  | 0.001  | 90338  | 221.5           |
| Aroclor-1016             | 3     | 7.791  | 0.003  | 61557  | 214.5    | 3                        | 8.052  | 0.002  | 37810  | 227.2           |
| Aroclor-1016             | 4     | 8.406  | 0.002  | 40372  | 218.7    | 4                        | 8.306  | 0.000  | 28171  | 215.9           |
| Total CollAve (4 peaks): |       |        |        | 216.9  |          | Total Col2Ave (4 peaks): |        |        |        | 220.2 RPD = 1   |
| Corrected Ave (3 peaks): |       |        |        | 216.3  |          | Corrected Ave (3 peaks): |        |        |        | 217.8 RPD = 1   |
| Aroclor-1221             | 1     | 4.732  | -0.001 | 256    | 6.8      | 1                        | ---    |        |        | 0.0             |
| Aroclor-1221             | 2     | 6.131  | -0.002 | 4742   | 61.9     | 2                        | 6.302  | 0.004  | 5037   | 91.4            |
| Aroclor-1221             | 3     | 6.384  | -0.000 | 27448  | 154.4    | 3                        | 6.623  | -0.000 | 18931  | 203.5           |
| Total CollAve (3 peaks): |       |        |        | 74.4   |          | Col2Ave: <3 Quant Peaks  |        |        |        |                 |
| Aroclor-1232             | 1     | 4.732  | -0.001 | 256    | 11.0     | 1                        | ---    |        |        | 0.0             |
| Aroclor-1232             | 2     | 6.131  | -0.002 | 4742   | 90.0     | 2                        | 7.255  | -0.001 | 40190  | 470.8           |
| Aroclor-1232             | 3     | 7.655  | -0.004 | 135282 | 513.5    | 3                        | 7.852  | -0.002 | 90338  | 519.5           |
| Aroclor-1232             | 4     | 8.581  | -0.003 | 56938  | 504.9    | 4                        | 8.713  | -0.001 | 27776  | 574.9           |
| Total CollAve (4 peaks): |       |        |        | 279.8  |          | Total Col2Ave (3 peaks): |        |        |        | 521.7 RPD = 60* |
| Corrected Ave (3 peaks): |       |        |        | 202.0  |          | Corrected Ave: < 3 Peaks |        |        |        |                 |
| Aroclor-1242             | 1     | 7.271  | -0.000 | 40958  | 264.0    | 1                        | 7.255  | -0.000 | 40190  | 267.8           |
| Aroclor-1242             | 2     | 7.655  | -0.001 | 135282 | 266.5    | 2                        | 7.852  | -0.001 | 90338  | 271.0           |
| Aroclor-1242             | 3     | 8.406  | -0.001 | 40372  | 267.7    | 3                        | 9.115  | -0.045 | 15827  | 151.6           |
| Aroclor-1242             | 4     | 8.581  | -0.000 | 56938  | 249.9    | 4                        | 9.587  | 0.001  | 3186   | 23.0            |
| Total CollAve (4 peaks): |       |        |        | 262.0  |          | Total Col2Ave (4 peaks): |        |        |        | 178.4 RPD = 38  |
| Corrected Ave (3 peaks): |       |        |        | 260.1  |          | Corrected Ave (3 peaks): |        |        |        | 147.5 RPD = 55* |
| Aroclor-1248             | 1     | 8.406  | 0.000  | 40372  | 159.3    | 1                        | 8.306  | 0.000  | 28171  | 181.6           |
| Aroclor-1248             | 2     | 8.581  | 0.001  | 56938  | 176.1    | 2                        | 8.713  | 0.000  | 27776  | 166.4           |
| Aroclor-1248             | 3     | 8.995  | -0.004 | 58213  | 94.1     | 3                        | 9.115  | -0.042 | 15827  | 77.6            |
| Aroclor-1248             | 4     | 9.304  | 0.010  | 36620  | 119.6    | 4                        | 9.587  | 0.006  | 3186   | 12.6            |
| Total CollAve (4 peaks): |       |        |        | 137.3  |          | Total Col2Ave (4 peaks): |        |        |        | 109.6 RPD = 22  |
| Corrected Ave (3 peaks): |       |        |        | 124.4  |          | Corrected Ave (3 peaks): |        |        |        | 85.5 RPD = 37   |
| Aroclor-1254             | 1     | 9.304  | 0.005  | 36620  | 70.9     | 1                        | 9.450  | 0.002  | 20792  | 83.5            |
| Aroclor-1254             | 2     | ---    |        |        | 0.0      | 2                        | 9.972  | 0.003  | 2640   | 13.1            |
| Aroclor-1254             | 3     | 9.673  | 0.003  | 4075   | 12.3     | 3                        | 10.148 | 0.027  | 52902  | 120.5           |
| Aroclor-1254             | 4     | 9.813  | 0.004  | 14733  | 22.7     | 4                        | 10.372 | 0.000  | 71680  | 163.3           |
| Aroclor-1254             | 5     | 10.122 | -0.055 | 119528 | 283.6    | 5                        | 10.569 | -0.000 | 98559  | 403.2           |
| Total CollAve (4 peaks): |       |        |        | 97.4   |          | Total Col2Ave (5 peaks): |        |        |        | 156.7 RPD = 47* |
| Corrected Ave (3 peaks): |       |        |        | 35.3   |          | Corrected Ave (4 peaks): |        |        |        | 95.1 RPD = 92*  |
| Aroclor-1260             | 1     | 11.045 | 0.002  | 116435 | 220.7    | 1                        | 11.654 | 0.000  | 81795  | 226.0           |
| Aroclor-1260             | 2     | 11.362 | 0.001  | 116918 | 215.6    | 2                        | 11.920 | 0.002  | 217887 | 238.0           |
| Aroclor-1260             | 3     | 11.738 | 0.003  | 303264 | 212.5    | 3                        | 12.437 | 0.001  | 56212  | 246.3           |
| Aroclor-1260             | 4     | 12.143 | 0.004  | 141534 | 191.9    | 4                        | 12.502 | 0.000  | 142689 | 240.8           |
| Aroclor-1260             | 5     | 12.246 | 0.002  | 68446  | 212.9    | NS                       | ---    |        |        | ----            |
| Total CollAve (5 peaks): |       |        |        | 210.7  |          | Total Col2Ave (4 peaks): |        |        |        | 237.8 RPD = 12  |
| Corrected Ave (4 peaks): |       |        |        | 208.2  |          | Corrected Ave (3 peaks): |        |        |        | 234.9 RPD = 12  |
| Aroclor-1262             | 1     | 10.830 | -0.002 | 169725 | 446.4    | 1                        | 11.200 | 0.000  | 83995  | 171.1           |
| Aroclor-1262             | 2     | 12.246 | 0.000  | 68446  | 114.1    | 2                        | 11.654 | 0.001  | 81795  | 195.9           |
| Aroclor-1262             | 3     | 12.320 | -0.000 | 84201  | 129.2    | 3                        | 12.437 | 0.003  | 56212  | 126.4           |
| Aroclor-1262             | 4     | 12.989 | -0.000 | 78065  | 131.5    | 4                        | 12.502 | -0.001 | 142689 | 200.4           |
| Total CollAve (4 peaks): |       |        |        | 205.3  |          | Total Col2Ave (4 peaks): |        |        |        | 173.4 RPD = 17  |
| Corrected Ave (3 peaks): |       |        |        | 124.9  |          | Corrected Ave (3 peaks): |        |        |        | 164.5 RPD = 27  |
| Aroclor-1268             | 1     | 12.246 | 0.001  | 68446  | 44.1     | 1                        | 12.437 | 0.003  | 56212  | 48.0            |
| Aroclor-1268             | 2     | 12.320 | 0.002  | 84201  | 54.4     | 2                        | 12.502 | 0.001  | 142689 | 114.4           |
| Aroclor-1268             | 3     | 12.726 | 0.027  | 33020  | 25.7     | 3                        | 12.894 | 0.001  | 1495   | 1.4             |
| Aroclor-1268             | 4     | 13.490 | 0.001  | 16019  | 4.2      | 4                        | 13.709 | 0.001  | 10120  | 3.2             |
| Total CollAve (4 peaks): |       |        |        | 32.1   |          | Total Col2Ave (4 peaks): |        |        |        | 41.8 RPD = 26   |
| Corrected Ave (3 peaks): |       |        |        | 24.7   |          | Corrected Ave (3 peaks): |        |        |        | 17.5 RPD = 34   |

Total PCB Area Col1 (5.909 - 13.792) = 2789370 Col1 Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 1810543 Col2 Total PCB = 0.5 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242325ECD7.D  
Data file 2: /230124.b/230124.b/01242325ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1242 SCV  
Client ID:  
Injection Date: 24-JAN-2023 20:12  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.809   | -0.000 | 268580   | 5.686  | -0.001 | 172592   | 37.8   | 37.4 | 1.1           | Tetrachloro-m-xylene |
| 13.892  | 0.001  | 392918   | 14.121 | 0.001  | 323869   | 38.5   | 40.3 | 4.6           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 503089      | -0.0 |
| Hexabromobiphenyl  | 647433         | 953137      | 47.2 |
| Column 2           |                |             |      |
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 341704      | 1.4  |
| Hexabromobiphenyl  | 382032         | 505860      | 32.4 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |       |                 |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|-------|-----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area  | Amount          |
| Aroclor-1016             | 1     | 7.271  | 0.001  | 29901  | 159.9    | 1                        | 7.255  | 0.000  | 32077 | 173.1           |
| Aroclor-1016             | 2     | 7.653  | 0.003  | 107333 | 173.3    | 2                        | 7.851  | -0.000 | 71438 | 175.9           |
| Aroclor-1016             | 3     | 7.790  | 0.002  | 45013  | 157.9    | 3                        | 8.051  | 0.001  | 29072 | 175.4           |
| Aroclor-1016             | 4     | 8.406  | 0.002  | 32958  | 179.8    | 4                        | 8.306  | 0.001  | 21761 | 167.5           |
| Total CollAve (4 peaks): |       |        |        | 167.7  |          | Total Col2Ave (4 peaks): |        |        |       | 173.0 RPD = 3   |
| Corrected Ave (3 peaks): |       |        |        | 163.7  |          | Corrected Ave (3 peaks): |        |        |       | 172.0 RPD = 5   |
| Aroclor-1221             | 1     | 4.737  | 0.004  | 141    | 3.8      | 1                        | ---    |        |       | 0.0             |
| Aroclor-1221             | 2     | 6.133  | -0.001 | 3649   | 48.0     | 2                        | 6.317  | 0.018  | 4290  | 78.2            |
| Aroclor-1221             | 3     | 6.384  | -0.000 | 21189  | 120.0    | 3                        | 6.624  | 0.001  | 14613 | 157.7           |
| Total CollAve (3 peaks): |       |        |        | 57.3   |          | Col2Ave: <3 Quant Peaks  |        |        |       |                 |
| Aroclor-1232             | 1     | 4.737  | 0.003  | 141    | 6.1      | 1                        | ---    |        |       | 0.0             |
| Aroclor-1232             | 2     | 6.133  | -0.001 | 3649   | 69.7     | 2                        | 7.255  | -0.002 | 32077 | 377.3           |
| Aroclor-1232             | 3     | 7.653  | -0.005 | 107333 | 410.2    | 3                        | 7.851  | -0.004 | 71438 | 412.5           |
| Aroclor-1232             | 4     | 8.581  | -0.003 | 59617  | 532.3    | 4                        | 8.713  | -0.000 | 22563 | 468.9           |
| Total CollAve (4 peaks): |       |        |        | 254.6  |          | Total Col2Ave (3 peaks): |        |        |       | 419.6 RPD = 49* |
| Corrected Ave (3 peaks): |       |        |        | 162.0  |          | Corrected Ave: < 3 Peaks |        |        |       |                 |
| Aroclor-1242             | 1     | 7.271  | 0.000  | 29901  | 194.1    | 1                        | 7.255  | -0.001 | 32077 | 214.6           |
| Aroclor-1242             | 2     | 7.653  | -0.002 | 107333 | 212.9    | 2                        | 7.851  | -0.002 | 71438 | 215.2           |
| Aroclor-1242             | 3     | 8.406  | -0.000 | 32958  | 220.0    | 3                        | 9.156  | -0.004 | 27374 | 263.3           |
| Aroclor-1242             | 4     | 8.581  | -0.000 | 59617  | 263.5    | 4                        | 9.581  | -0.006 | 34156 | 247.9           |
| Total CollAve (4 peaks): |       |        |        | 222.6  |          | Total Col2Ave (4 peaks): |        |        |       | 235.3 RPD = 6   |
| Corrected Ave (3 peaks): |       |        |        | 209.0  |          | Corrected Ave (3 peaks): |        |        |       | 225.9 RPD = 8   |
| Aroclor-1248             | 1     | 8.406  | 0.001  | 32958  | 131.0    | 1                        | 8.306  | 0.001  | 21761 | 140.9           |
| Aroclor-1248             | 2     | 8.581  | 0.001  | 59617  | 185.7    | 2                        | 8.713  | 0.001  | 22563 | 135.7           |
| Aroclor-1248             | 3     | 9.003  | 0.004  | 72557  | 118.2    | 3                        | 9.156  | -0.000 | 27374 | 134.7           |
| Aroclor-1248             | 4     | 9.296  | 0.003  | 28122  | 92.5     | 4                        | 9.581  | -0.001 | 34156 | 135.9           |
| Total CollAve (4 peaks): |       |        |        | 131.8  |          | Total Col2Ave (4 peaks): |        |        |       | 136.8 RPD = 4   |
| Corrected Ave (3 peaks): |       |        |        | 113.9  |          | Corrected Ave (3 peaks): |        |        |       | 135.5 RPD = 17  |
| Aroclor-1254             | 1     | 9.296  | -0.002 | 28122  | 54.8     | 1                        | 9.448  | 0.000  | 11650 | 47.0            |
| Aroclor-1254             | 2     | 9.380  | 0.002  | 9292   | 42.4     | 2                        | 9.968  | -0.001 | 7642  | 38.1            |
| Aroclor-1254             | 3     | 9.671  | 0.001  | 12871  | 39.2     | 3                        | 10.120 | -0.001 | 16012 | 36.6            |
| Aroclor-1254             | 4     | 9.808  | -0.000 | 22113  | 34.4     | 4                        | 10.378 | 0.007  | 16300 | 37.3            |
| Aroclor-1254             | 5     | 10.176 | -0.001 | 17771  | 42.5     | 5                        | 10.572 | 0.004  | 4439  | 18.2            |
| Total CollAve (5 peaks): |       |        |        | 42.7   |          | Total Col2Ave (5 peaks): |        |        |       | 35.5 RPD = 18   |
| Corrected Ave (4 peaks): |       |        |        | 39.6   |          | Corrected Ave (4 peaks): |        |        |       | 32.6 RPD = 19   |
| Aroclor-1260             | 1     | 11.047 | 0.003  | 741    | 1.4      | 1                        | 11.663 | 0.010  | 1794  | 4.9             |
| Aroclor-1260             | 2     | 11.366 | 0.006  | 379    | 0.7      | 2                        | 11.923 | 0.005  | 1208  | 1.3             |
| Aroclor-1260             | 3     | 11.745 | 0.011  | 860    | 0.6      | 3                        | 12.507 | 0.071  | 977   | 4.2             |
| Aroclor-1260             | 4     | 12.154 | 0.014  | 1536   | 2.1      | 4                        | ---    |        |       | 0.0             |
| Aroclor-1260             | 5     | ---    |        |        | 0.0      | NS                       | ---    |        |       | ----            |
| Total CollAve (4 peaks): |       |        |        | 1.2    |          | Total Col2Ave (3 peaks): |        |        |       | 3.5 RPD = 99*   |
| Corrected Ave (3 peaks): |       |        |        | 0.9    |          | Corrected Ave: < 3 Peaks |        |        |       |                 |
| Aroclor-1262             | 1     | 10.836 | 0.004  | 10654  | 27.6     | 1                        | 11.120 | -0.080 | 8071  | 16.3            |
| Aroclor-1262             | 2     | 12.154 | -0.092 | 1536   | 2.5      | 2                        | 11.663 | 0.010  | 1794  | 4.3             |
| Aroclor-1262             | 3     | ---    |        |        | 0.0      | 3                        | 12.507 | 0.073  | 977   | 2.2             |
| Aroclor-1262             | 4     | 13.040 | 0.051  | 1739   | 2.9      | 4                        | ---    |        |       | 0.0             |
| Total CollAve (3 peaks): |       |        |        | 11.0   |          | Total Col2Ave (3 peaks): |        |        |       | 7.6 RPD = 37    |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |       |                 |
| Aroclor-1268             | 1     | 12.154 | -0.091 | 1536   | 1.0      | 1                        | 12.507 | 0.073  | 977   | 0.8             |
| Aroclor-1268             | 2     | ---    |        |        | 0.0      | 2                        | ---    |        |       | 0.0             |
| Aroclor-1268             | 3     | 12.623 | -0.076 | 5080   | 3.9      | 3                        | 12.894 | 0.001  | 98    | 0.1             |
| Aroclor-1268             | 4     | 13.501 | 0.012  | 2725   | 0.7      | 4                        | 13.707 | -0.001 | 1566  | 0.5             |
| Total CollAve (3 peaks): |       |        |        | 1.9    |          | Total Col2Ave (3 peaks): |        |        |       | 0.5 RPD = 120*  |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |       |                 |

Total PCB Area Col1 (5.909 - 13.792) = 915887 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 575897 Col2 Total PCB = 0.2 ppm\*

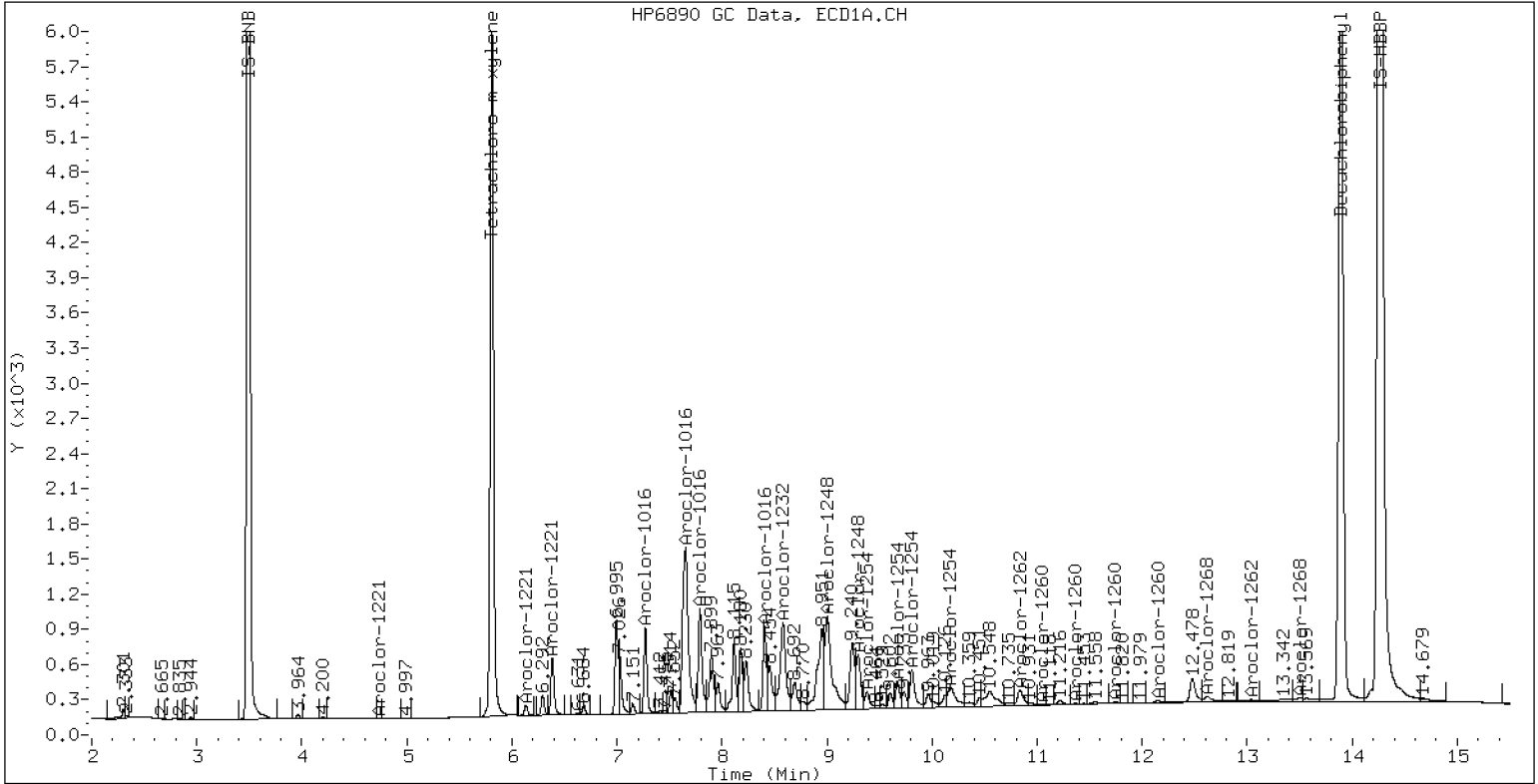
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1242 SCV

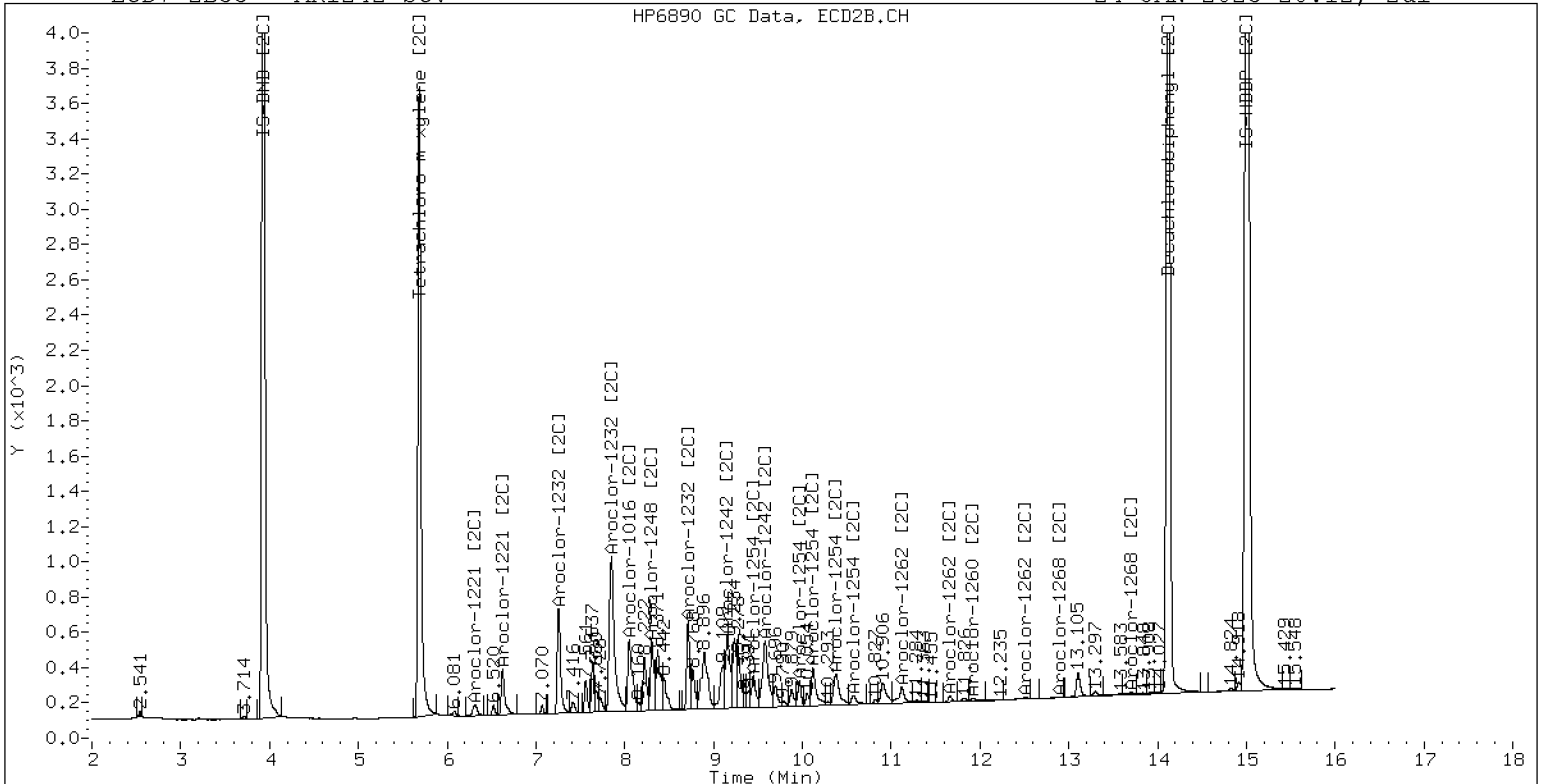
24-JAN-2023 20:12, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242 SCV

24-JAN-2023 20:12, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242326ECD7.D  
Data file 2: /230124.b/230124.b/01242326ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1248 SCV  
Client ID:  
Injection Date: 24-JAN-2023 20:33  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.809  | 0.000         | 263982   | 5.686  | -0.001         | 169991   | 36.8       | 36.5        | 0.6 | Tetrachloro-m-xylene |
| 13.892 | 0.001         | 400655   | 14.121 | 0.001          | 316171   | 38.3       | 39.6        | 3.4 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 508189      | 1.0  |
| Hexabromobiphenyl  | 647433         | 979067      | 51.2 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 344105      | 2.1  |
| Hexabromobiphenyl  | 382032         | 503378      | 31.8 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |       |                |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|-------|----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area  | Amount         |
| Aroclor-1016             | 1     | 7.271  | 0.001  | 14777  | 78.3     | 1                        | 7.254  | -0.001 | 16100 | 86.3           |
| Aroclor-1016             | 2     | 7.655  | 0.004  | 70114  | 112.1    | 2                        | 7.853  | 0.002  | 47184 | 115.4          |
| Aroclor-1016             | 3     | 7.794  | 0.006  | 27212  | 94.5     | 3                        | 8.053  | 0.003  | 9427  | 56.5           |
| Aroclor-1016             | 4     | 8.406  | 0.003  | 59884  | 323.4    | 4                        | 8.306  | 0.001  | 36680 | 280.3          |
| Total CollAve (4 peaks): |       |        |        | 152.0  |          | Total Col2Ave (4 peaks): |        |        |       | 134.6 RPD = 12 |
| Corrected Ave (3 peaks): |       |        |        | 94.9   |          | Corrected Ave (3 peaks): |        |        |       | 86.0 RPD = 10  |
| Aroclor-1221             | 1     | ---    |        |        | 0.0      | 1                        | ---    |        |       | 0.0            |
| Aroclor-1221             | 2     | 6.133  | -0.000 | 591    | 7.7      | 2                        | 6.323  | 0.025  | 1820  | 32.9           |
| Aroclor-1221             | 3     | 6.386  | 0.001  | 2453   | 13.8     | 3                        | 6.627  | 0.004  | 1477  | 15.8           |
| CollAve: <3 Quant Peaks  |       |        |        |        |          | Col2Ave: <3 Quant Peaks  |        |        |       |                |
| Aroclor-1232             | 1     | ---    |        |        | 0.0      | 1                        | ---    |        |       | 0.0            |
| Aroclor-1232             | 2     | 6.133  | -0.000 | 591    | 11.2     | 2                        | 7.254  | -0.002 | 16100 | 188.0          |
| Aroclor-1232             | 3     | 7.655  | -0.004 | 70114  | 265.3    | 3                        | 7.853  | -0.001 | 47184 | 270.6          |
| Aroclor-1232             | 4     | 8.581  | -0.003 | 76286  | 674.3    | 4                        | 8.714  | 0.000  | 39330 | 811.7          |
| Total CollAve (3 peaks): |       |        |        | 316.9  |          | Total Col2Ave (3 peaks): |        |        |       | 423.4 RPD = 29 |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |       |                |
| Aroclor-1242             | 1     | 7.271  | 0.000  | 14777  | 95.0     | 1                        | 7.254  | -0.002 | 16100 | 107.0          |
| Aroclor-1242             | 2     | 7.655  | -0.001 | 70114  | 137.7    | 2                        | 7.853  | 0.000  | 47184 | 141.2          |
| Aroclor-1242             | 3     | 8.406  | -0.000 | 59884  | 395.8    | 3                        | 9.159  | -0.001 | 46988 | 448.9          |
| Aroclor-1242             | 4     | 8.581  | -0.000 | 76286  | 333.8    | 4                        | 9.584  | -0.003 | 56615 | 408.1          |
| Total CollAve (4 peaks): |       |        |        | 240.5  |          | Total Col2Ave (4 peaks): |        |        |       | 276.3 RPD = 14 |
| Corrected Ave (3 peaks): |       |        |        | 188.8  |          | Corrected Ave (3 peaks): |        |        |       | 218.7 RPD = 15 |
| Aroclor-1248             | 1     | 8.406  | 0.001  | 59884  | 235.6    | 1                        | 8.306  | 0.001  | 36680 | 235.8          |
| Aroclor-1248             | 2     | 8.581  | 0.001  | 76286  | 235.2    | 2                        | 8.714  | 0.002  | 39330 | 234.9          |
| Aroclor-1248             | 3     | 9.000  | 0.001  | 148805 | 239.9    | 3                        | 9.159  | 0.003  | 46988 | 229.7          |
| Aroclor-1248             | 4     | 9.295  | 0.001  | 73114  | 238.1    | 4                        | 9.584  | 0.002  | 56615 | 223.8          |
| Total CollAve (4 peaks): |       |        |        | 237.2  |          | Total Col2Ave (4 peaks): |        |        |       | 231.0 RPD = 3  |
| Corrected Ave (3 peaks): |       |        |        | 236.3  |          | Corrected Ave (3 peaks): |        |        |       | 229.5 RPD = 3  |
| Aroclor-1254             | 1     | 9.295  | -0.004 | 73114  | 141.2    | 1                        | 9.449  | 0.001  | 20314 | 81.4           |
| Aroclor-1254             | 2     | 9.378  | 0.000  | 36561  | 165.3    | 2                        | 9.970  | 0.000  | 18678 | 92.6           |
| Aroclor-1254             | 3     | 9.672  | 0.003  | 30736  | 92.6     | 3                        | 10.124 | 0.003  | 35321 | 80.2           |
| Aroclor-1254             | 4     | 9.813  | 0.004  | 53537  | 82.3     | 4                        | 10.387 | 0.015  | 35188 | 79.9           |
| Aroclor-1254             | 5     | 10.192 | 0.015  | 40119  | 94.9     | 5                        | 10.575 | 0.006  | 7386  | 30.1           |
| Total CollAve (5 peaks): |       |        |        | 115.3  |          | Total Col2Ave (5 peaks): |        |        |       | 72.9 RPD = 45* |
| Corrected Ave (4 peaks): |       |        |        | 102.7  |          | Corrected Ave (4 peaks): |        |        |       | 67.9 RPD = 41* |
| Aroclor-1260             | 1     | 11.054 | 0.010  | 1868   | 3.4      | 1                        | 11.664 | 0.011  | 2055  | 5.7            |
| Aroclor-1260             | 2     | 11.366 | 0.005  | 1375   | 2.4      | 2                        | 11.926 | 0.009  | 1303  | 1.4            |
| Aroclor-1260             | 3     | 11.745 | 0.010  | 2137   | 1.4      | 3                        | 12.439 | 0.003  | 395   | 1.7            |
| Aroclor-1260             | 4     | 12.147 | 0.008  | 1650   | 2.1      | 4                        | 12.507 | 0.005  | 890   | 1.5            |
| Aroclor-1260             | 5     | 12.255 | 0.011  | 558    | 1.7      | NS                       | ---    |        |       | ----           |
| Total CollAve (5 peaks): |       |        |        | 2.2    |          | Total Col2Ave (4 peaks): |        |        |       | 2.6 RPD = 15   |
| Corrected Ave (4 peaks): |       |        |        | 1.9    |          | Corrected Ave (3 peaks): |        |        |       | 1.5 RPD = 22   |
| Aroclor-1262             | 1     | 10.837 | 0.005  | 12736  | 32.2     | 1                        | 11.122 | -0.078 | 7136  | 14.5           |
| Aroclor-1262             | 2     | 12.255 | 0.010  | 558    | 0.9      | 2                        | 11.664 | 0.011  | 2055  | 4.9            |
| Aroclor-1262             | 3     | 12.327 | 0.006  | 596    | 0.9      | 3                        | 12.439 | 0.004  | 395   | 0.9            |
| Aroclor-1262             | 4     | 12.996 | 0.007  | 1113   | 1.8      | 4                        | 12.507 | 0.003  | 890   | 1.2            |
| Total CollAve (4 peaks): |       |        |        | 8.9    |          | Total Col2Ave (4 peaks): |        |        |       | 5.4 RPD = 50*  |
| Corrected Ave (3 peaks): |       |        |        | 1.2    |          | Corrected Ave (3 peaks): |        |        |       | 2.3 RPD = 65*  |
| Aroclor-1268             | 1     | 12.255 | 0.010  | 558    | 0.3      | 1                        | 12.439 | 0.005  | 395   | 0.3            |
| Aroclor-1268             | 2     | 12.327 | 0.009  | 596    | 0.4      | 2                        | 12.507 | 0.005  | 890   | 0.7            |
| Aroclor-1268             | 3     | 12.706 | 0.007  | 1161   | 0.9      | 3                        | 12.896 | 0.003  | 166   | 0.2            |
| Aroclor-1268             | 4     | 13.504 | 0.016  | 3330   | 0.8      | 4                        | 13.717 | 0.009  | 469   | 0.1            |
| Total CollAve (4 peaks): |       |        |        | 0.6    |          | Total Col2Ave (4 peaks): |        |        |       | 0.3 RPD = 57*  |
| Corrected Ave (3 peaks): |       |        |        | 0.5    |          | Corrected Ave (3 peaks): |        |        |       | 0.2 RPD = 83*  |

Total PCB Area Col1 (5.909 - 13.792) = 1230760 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 742749 Col2 Total PCB = 0.2 ppm\*

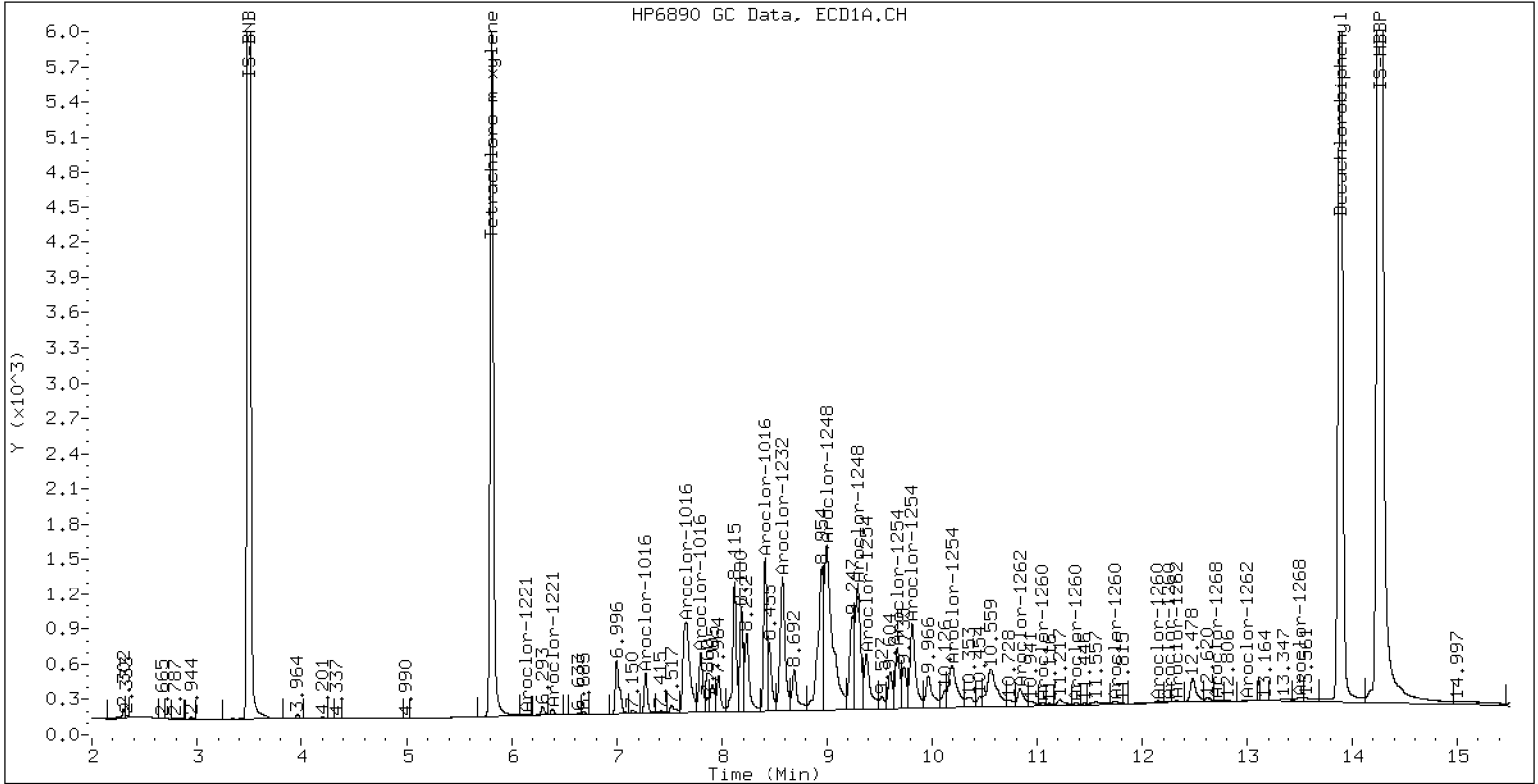
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1248 SCV

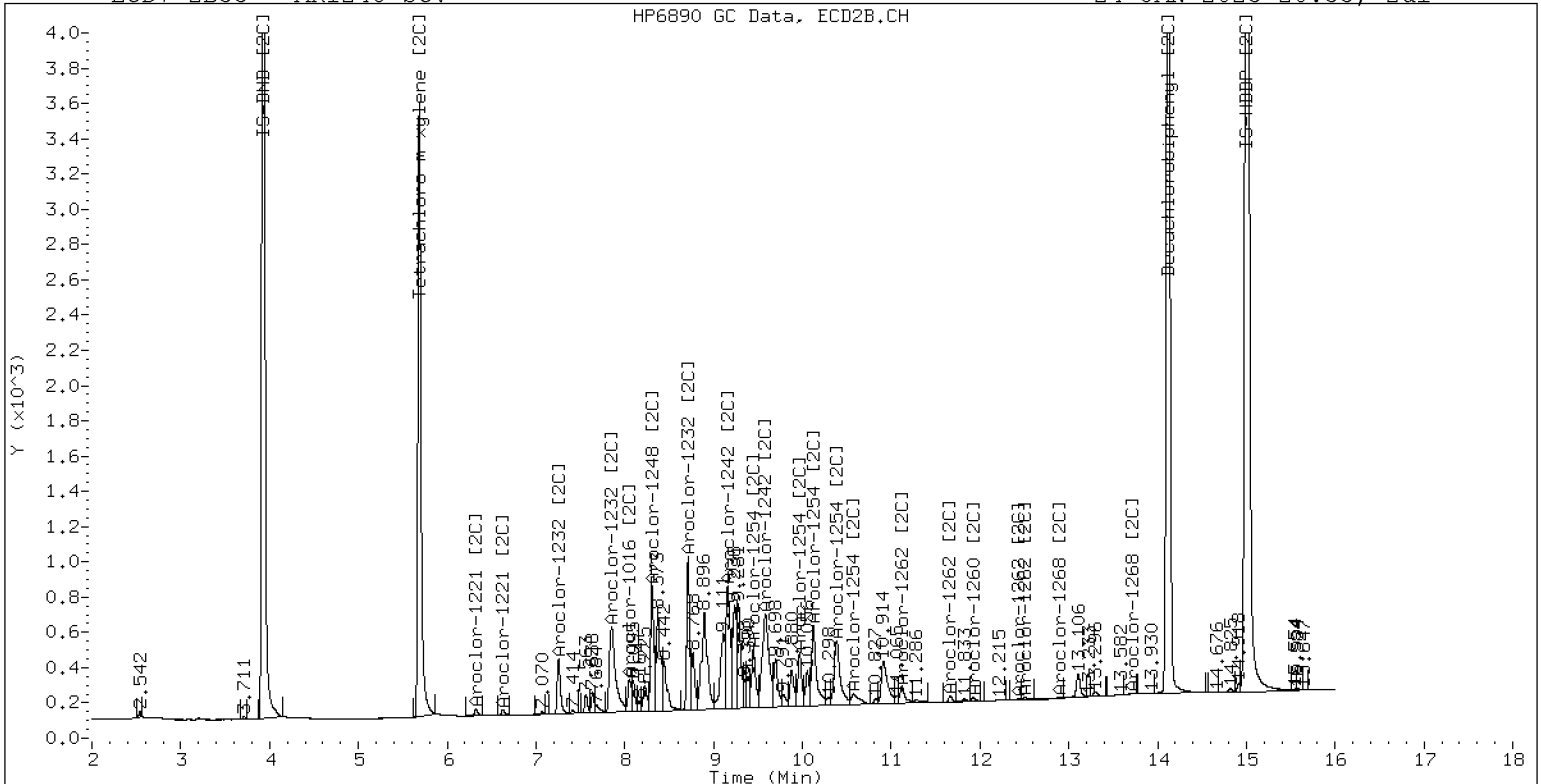
24-JAN-2023 20:33, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248 SCV

24-JAN-2023 20:33, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242327ECD7.D  
Data file 2: /230124.b/230124.b/01242327ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1254 SCV  
Client ID:  
Injection Date: 24-JAN-2023 20:54  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.809   | -0.000 | 261398   | 5.686  | -0.001 | 169839   | 36.7   | 36.6 | 0.1           | Tetrachloro-m-xylene |
| 13.892  | 0.001  | 383983   | 14.121 | 0.001  | 323233   | 37.1   | 39.5 | 6.4           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 504424      | 0.2  |
| Hexabromobiphenyl  | 647433         | 968338      | 49.6 |

| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 342969      | 1.8  |
| Hexabromobiphenyl  | 382032         | 515045      | 34.8 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                  |       |        |        |        |   | ZB35 Col |        |        |       |            |  |
|--------------------------|-------|--------|--------|--------|---|----------|--------|--------|-------|------------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                                  | Peak#    | RT     | Shift  | Area  | Amount     |  |
| Aroclor-1016             | 1     | 7.273  | 0.003  | 320    | 1.7                                     | 1        | 7.258  | 0.003  | 332   | 1.8        |  |
| Aroclor-1016             | 2     | 7.658  | 0.008  | 991    | 1.6                                     | 2        | ---    |        |       | 0.0        |  |
| Aroclor-1016             | 3     | 7.795  | 0.007  | 662    | 2.3                                     | 3        | 8.097  | 0.047  | 515   | 3.1        |  |
| Aroclor-1016             | 4     | 8.408  | 0.005  | 21378  | 116.3                                   | 4        | 8.307  | 0.002  | 20446 | 156.8      |  |
| Total CollAve (4 peaks): |       |        |        | 30.5   | Total Col2Ave (3 peaks):                |          |        |        | 53.9  | RPD = 55*  |  |
| Corrected Ave (3 peaks): |       |        |        | 1.9    | Corrected Ave: < 3 Peaks                |          |        |        |       |            |  |
| Aroclor-1221             | 1     | ---    |        |        | 0.0                                     | 1        | ---    |        |       | 0.0        |  |
| Aroclor-1221             | 2     | ---    |        |        | 0.0                                     | 2        | 6.325  | 0.026  | 1749  | 31.7       |  |
| Aroclor-1221             | 3     | ---    |        |        | 0.0                                     | 3        | 6.633  | 0.011  | 321   | 3.5        |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks                 |          |        |        |       |            |  |
| Aroclor-1232             | 1     | ---    |        |        | 0.0                                     | 1        | ---    |        |       | 0.0        |  |
| Aroclor-1232             | 2     | ---    |        |        | 0.0                                     | 2        | 7.258  | 0.001  | 332   | 3.9        |  |
| Aroclor-1232             | 3     | 7.658  | -0.000 | 991    | 3.8                                     | 3        | ---    |        |       | 0.0        |  |
| Aroclor-1232             | 4     | 8.587  | 0.003  | 8887   | 79.1                                    | 4        | 8.715  | 0.001  | 14030 | 290.5      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks                 |          |        |        |       |            |  |
| Aroclor-1242             | 1     | 7.273  | 0.002  | 320    | 2.1                                     | 1        | 7.258  | 0.002  | 332   | 2.2        |  |
| Aroclor-1242             | 2     | 7.658  | 0.003  | 991    | 2.0                                     | 2        | ---    |        |       | 0.0        |  |
| Aroclor-1242             | 3     | 8.408  | 0.002  | 21378  | 142.3                                   | 3        | 9.164  | 0.004  | 26593 | 254.9      |  |
| Aroclor-1242             | 4     | 8.587  | 0.006  | 8887   | 39.2                                    | 4        | 9.543  | -0.043 | 34385 | 248.7      |  |
| Total CollAve (4 peaks): |       |        |        | 46.4   | Total Col2Ave (3 peaks):                |          |        |        | 168.6 | RPD = 114* |  |
| Corrected Ave (3 peaks): |       |        |        | 14.4   | Corrected Ave: < 3 Peaks                |          |        |        |       |            |  |
| Aroclor-1248             | 1     | 8.408  | 0.003  | 21378  | 84.7                                    | 1        | 8.307  | 0.001  | 20446 | 131.9      |  |
| Aroclor-1248             | 2     | 8.587  | 0.007  | 8887   | 27.6                                    | 2        | 8.715  | 0.003  | 14030 | 84.1       |  |
| Aroclor-1248             | 3     | 8.995  | -0.004 | 110289 | 179.1                                   | 3        | 9.164  | 0.007  | 26593 | 130.4      |  |
| Aroclor-1248             | 4     | 9.300  | 0.007  | 113143 | 371.2                                   | 4        | 9.543  | -0.038 | 34385 | 136.4      |  |
| Total CollAve (4 peaks): |       |        |        | 165.7  | Total Col2Ave (4 peaks):                |          |        |        | 120.7 | RPD = 31   |  |
| Corrected Ave (3 peaks): |       |        |        | 97.2   | Corrected Ave (3 peaks): 115.5 RPD = 17 |          |        |        |       |            |  |
| Aroclor-1254             | 1     | 9.300  | 0.002  | 113143 | 220.1                                   | 1        | 9.449  | 0.001  | 56453 | 226.9      |  |
| Aroclor-1254             | 2     | 9.379  | 0.001  | 49468  | 225.4                                   | 2        | 9.970  | 0.001  | 45325 | 225.4      |  |
| Aroclor-1254             | 3     | 9.671  | 0.002  | 72811  | 221.0                                   | 3        | 10.122 | 0.002  | 97044 | 221.2      |  |
| Aroclor-1254             | 4     | 9.811  | 0.002  | 140530 | 217.7                                   | 4        | 10.374 | 0.002  | 98778 | 225.2      |  |
| Aroclor-1254             | 5     | 10.182 | 0.005  | 92254  | 219.8                                   | 5        | 10.570 | 0.001  | 57171 | 234.0      |  |
| Total CollAve (5 peaks): |       |        |        | 220.8  | Total Col2Ave (5 peaks):                |          |        |        | 226.5 | RPD = 3    |  |
| Corrected Ave (4 peaks): |       |        |        | 219.7  | Corrected Ave (4 peaks): 224.7 RPD = 2  |          |        |        |       |            |  |
| Aroclor-1260             | 1     | 11.045 | 0.002  | 8960   | 16.5                                    | 1        | 11.661 | 0.008  | 26985 | 72.6       |  |
| Aroclor-1260             | 2     | 11.364 | 0.004  | 9237   | 16.5                                    | 2        | 11.923 | 0.006  | 19882 | 21.2       |  |
| Aroclor-1260             | 3     | 11.741 | 0.007  | 21268  | 14.5                                    | 3        | 12.505 | 0.069  | 13190 | 56.3       |  |
| Aroclor-1260             | 4     | 12.146 | 0.007  | 19041  | 25.1                                    | 4        | ---    |        |       | 0.0        |  |
| Aroclor-1260             | 5     | 12.321 | 0.077  | 1835   | 5.5                                     | NS       | ---    |        |       | ---        |  |
| Total CollAve (5 peaks): |       |        |        | 15.6   | Total Col2Ave (3 peaks):                |          |        |        | 50.0  | RPD = 105* |  |
| Corrected Ave (4 peaks): |       |        |        | 13.3   | Corrected Ave: < 3 Peaks                |          |        |        |       |            |  |
| Aroclor-1262             | 1     | 10.832 | 0.000  | 157590 | 402.4                                   | 1        | 11.119 | -0.081 | 92414 | 183.3      |  |
| Aroclor-1262             | 2     | 12.321 | 0.075  | 1835   | 3.0                                     | 2        | 11.661 | 0.008  | 26985 | 63.0       |  |
| Aroclor-1262             | 3     | ---    |        |        | 0.0                                     | 3        | 12.505 | 0.071  | 13190 | 28.9       |  |
| Aroclor-1262             | 4     | 12.995 | 0.006  | 843    | 1.4                                     | 4        | ---    |        |       | 0.0        |  |
| Total CollAve (3 peaks): |       |        |        | 135.6  | Total Col2Ave (3 peaks):                |          |        |        | 91.7  | RPD = 39   |  |
| Corrected Ave: < 3 Peaks |       |        |        |        | Corrected Ave: < 3 Peaks                |          |        |        |       |            |  |
| Aroclor-1268             | 1     | 12.321 | 0.076  | 1835   | 1.1                                     | 1        | 12.505 | 0.072  | 13190 | 11.0       |  |
| Aroclor-1268             | 2     | ---    |        |        | 0.0                                     | 2        | ---    |        |       | 0.0        |  |
| Aroclor-1268             | 3     | 12.720 | 0.021  | 1314   | 1.0                                     | 3        | 12.891 | -0.002 | 169   | 0.2        |  |
| Aroclor-1268             | 4     | 13.504 | 0.016  | 1169   | 0.3                                     | 4        | 13.706 | -0.002 | 1132  | 0.3        |  |
| Total CollAve (3 peaks): |       |        |        | 0.8    | Total Col2Ave (3 peaks):                |          |        |        | 3.8   | RPD = 130* |  |
| Corrected Ave: < 3 Peaks |       |        |        |        | Corrected Ave: < 3 Peaks                |          |        |        |       |            |  |

Total PCB Area Col1 (5.909 - 13.792) = 1507519 Col1 Total PCB = 0.3 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 951047 Col2 Total PCB = 0.3 ppm\*

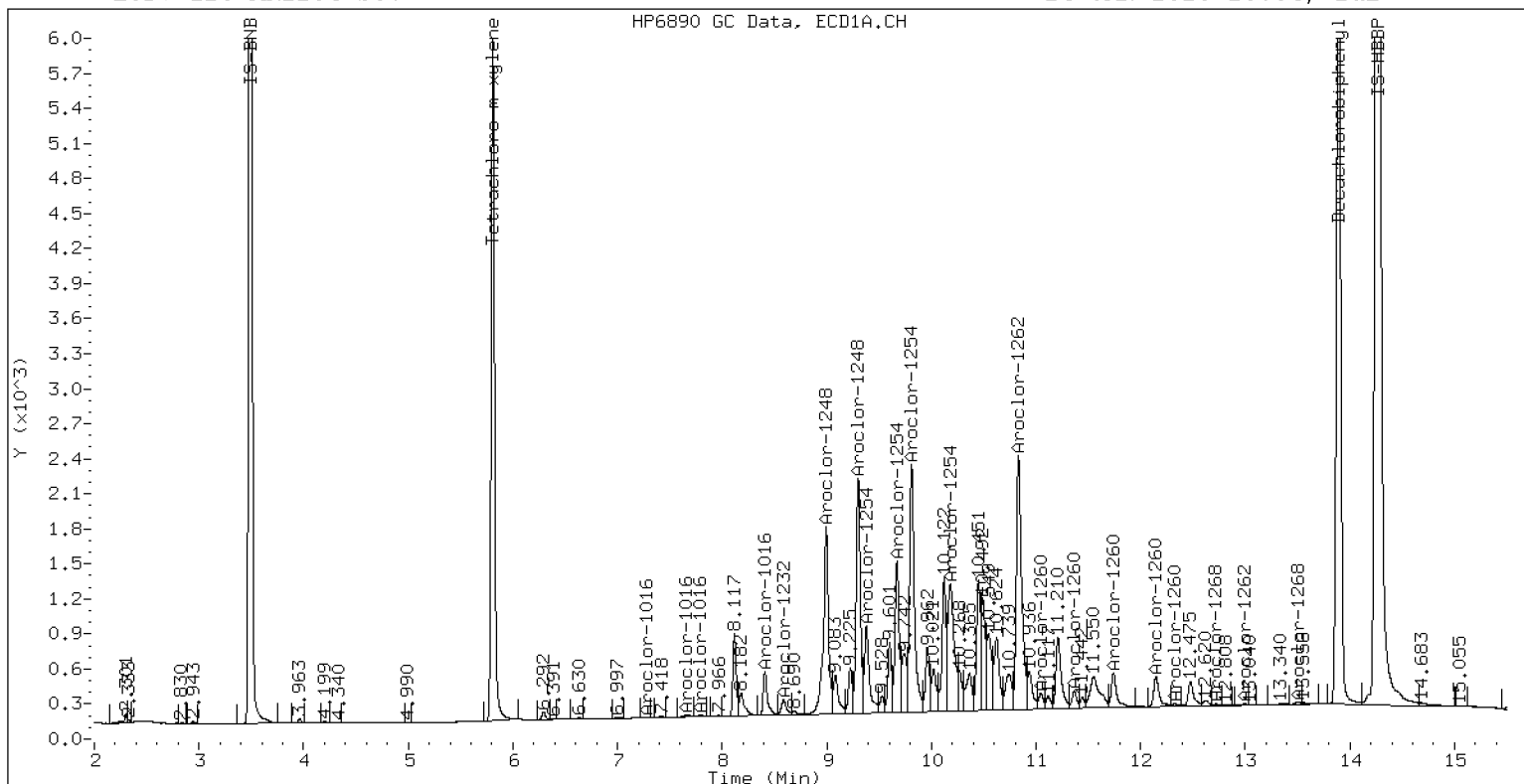
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1254 SCV

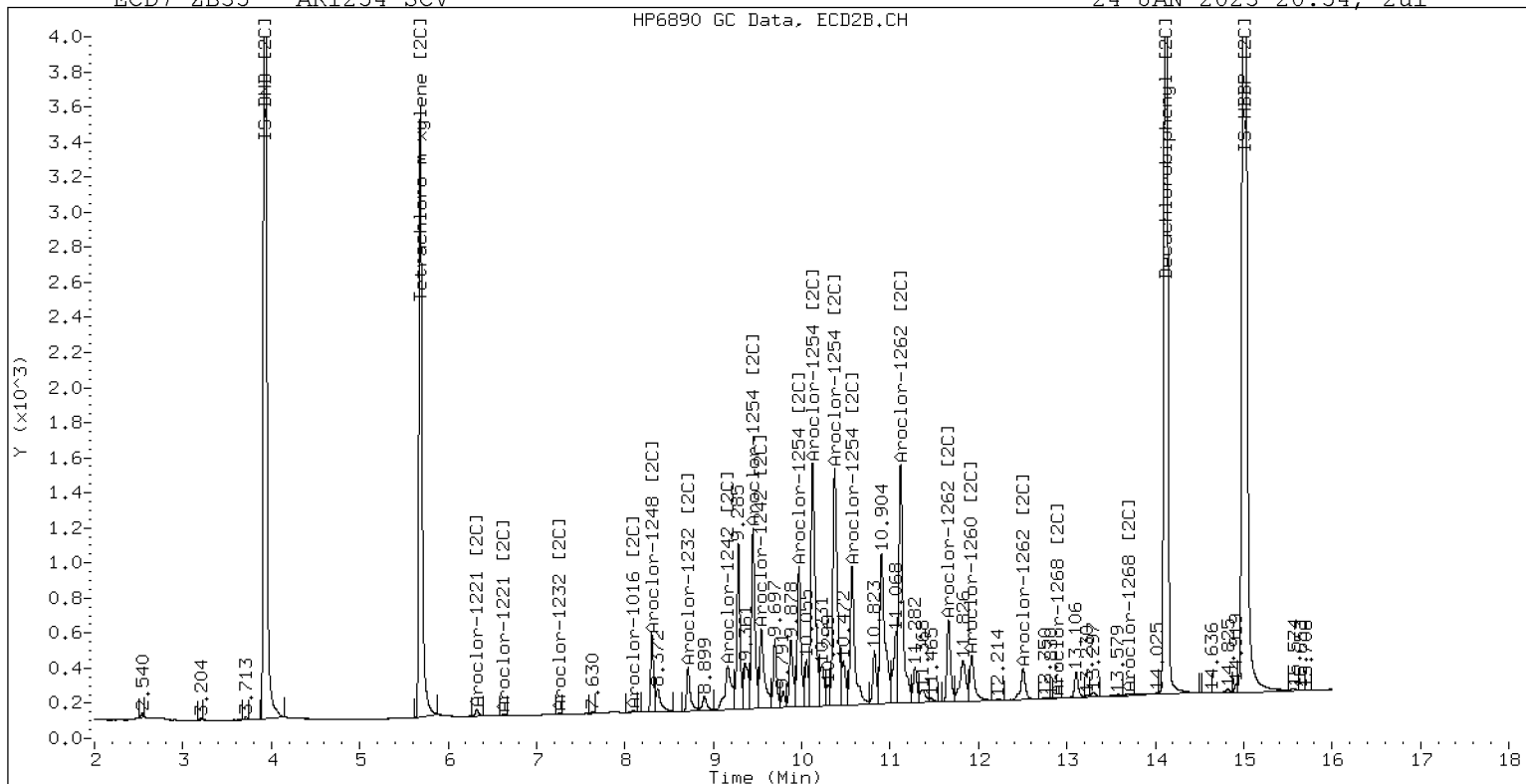
24-JAN-2023 20:54, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254 SCV

24-JAN-2023 20:54, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242328ECD7.D  
Data file 2: /230124.b/230124.b/01242328ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR2162 SCV  
Client ID:  
Injection Date: 24-JAN-2023 21:15  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.809   | -0.000 | 265357   | 5.685  | -0.001 | 170984   | 37.3   | 37.2 | 0.3           | Tetrachloro-m-xylene |
| 13.891  | -0.001 | 397332   | 14.119 | -0.001 | 326981   | 37.5   | 39.5 | 5.3           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 503473      | 0.0  |
| Hexabromobiphenyl  | 647433         | 991997      | 53.2 |

| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 340361      | 1.0  |
| Hexabromobiphenyl  | 382032         | 521975      | 36.6 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        |                          | ZB35 Col |        |        |        |            |  |
|--------------------------|-------|--------|--------|--------|--------------------------|----------|--------|--------|--------|------------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                   | Peak#    | RT     | Shift  | Area   | Amount     |  |
| Aroclor-1016             | 1     | 7.272  | 0.002  | 5326   | 28.5                     | 1        | 7.257  | 0.002  | 6708   | 36.3       |  |
| Aroclor-1016             | 2     | 7.664  | 0.013  | 11965  | 19.3                     | 2        | 7.856  | 0.005  | 7233   | 17.9       |  |
| Aroclor-1016             | 3     | 7.797  | 0.009  | 6015   | 21.1                     | 3        | 8.058  | 0.008  | 2997   | 18.2       |  |
| Aroclor-1016             | 4     | 8.410  | 0.006  | 3771   | 20.6                     | 4        | 8.308  | 0.002  | 2065   | 16.0       |  |
| Total CollAve (4 peaks): |       |        |        | 22.4   | Total Col2Ave (4 peaks): |          |        |        | 22.1   | RPD = 1    |  |
| Corrected Ave (3 peaks): |       |        |        | 20.3   | Corrected Ave (3 peaks): |          |        |        | 17.3   | RPD = 16   |  |
| Aroclor-1221             | 1     | 4.732  | -0.000 | 9097   | 244.5                    | 1        | 4.959  | -0.000 | 6157   | 246.8      |  |
| Aroclor-1221             | 2     | 6.133  | -0.000 | 16114  | 211.8                    | 2        | 6.297  | -0.001 | 12807  | 234.2      |  |
| Aroclor-1221             | 3     | 6.384  | 0.000  | 40299  | 228.1                    | 3        | 6.622  | -0.000 | 21707  | 235.2      |  |
| Total CollAve (3 peaks): |       |        |        | 228.1  | Total Col2Ave (3 peaks): |          |        |        | 238.7  | RPD = 5    |  |
| Corrected Ave: < 3 Peaks |       |        |        |        | Corrected Ave: < 3 Peaks |          |        |        |        |            |  |
| Aroclor-1232             | 1     | 4.732  | -0.001 | 9097   | 391.6                    | 1        | 4.959  | -0.001 | 6157   | 406.9      |  |
| Aroclor-1232             | 2     | 6.133  | 0.000  | 16114  | 307.8                    | 2        | 7.257  | 0.000  | 6708   | 79.2       |  |
| Aroclor-1232             | 3     | 7.664  | 0.005  | 11965  | 45.7                     | 3        | 7.856  | 0.001  | 7233   | 41.9       |  |
| Aroclor-1232             | 4     | 8.589  | 0.004  | 2837   | 25.3                     | 4        | 8.716  | 0.002  | 1869   | 39.0       |  |
| Total CollAve (4 peaks): |       |        |        | 192.6  | Total Col2Ave (4 peaks): |          |        |        | 141.7  | RPD = 30   |  |
| Corrected Ave (3 peaks): |       |        |        | 126.3  | Corrected Ave (3 peaks): |          |        |        | 53.4   | RPD = 81*  |  |
| Aroclor-1242             | 1     | 7.272  | 0.001  | 5326   | 34.5                     | 1        | 7.257  | 0.001  | 6708   | 45.1       |  |
| Aroclor-1242             | 2     | 7.664  | 0.008  | 11965  | 23.7                     | 2        | 7.856  | 0.003  | 7233   | 21.9       |  |
| Aroclor-1242             | 3     | 8.410  | 0.004  | 3771   | 25.2                     | 3        | 9.169  | 0.009  | 1956   | 18.9       |  |
| Aroclor-1242             | 4     | 8.589  | 0.007  | 2837   | 12.5                     | 4        | 9.544  | -0.043 | 5978   | 43.6       |  |
| Total CollAve (4 peaks): |       |        |        | 24.0   | Total Col2Ave (4 peaks): |          |        |        | 32.3   | RPD = 30   |  |
| Corrected Ave (3 peaks): |       |        |        | 20.5   | Corrected Ave (3 peaks): |          |        |        | 28.1   | RPD = 31   |  |
| Aroclor-1248             | 1     | 8.410  | 0.005  | 3771   | 15.0                     | 1        | 8.308  | 0.002  | 2065   | 13.4       |  |
| Aroclor-1248             | 2     | 8.589  | 0.008  | 2837   | 8.8                      | 2        | 8.716  | 0.004  | 1869   | 11.3       |  |
| Aroclor-1248             | 3     | 8.997  | -0.002 | 36022  | 58.6                     | 3        | 9.169  | 0.012  | 1956   | 9.7        |  |
| Aroclor-1248             | 4     | 9.305  | 0.011  | 30853  | 101.4                    | 4        | 9.544  | -0.038 | 5978   | 23.9       |  |
| Total CollAve (4 peaks): |       |        |        | 46.0   | Total Col2Ave (4 peaks): |          |        |        | 14.6   | RPD = 104* |  |
| Corrected Ave (3 peaks): |       |        |        | 27.5   | Corrected Ave (3 peaks): |          |        |        | 11.5   | RPD = 82*  |  |
| Aroclor-1254             | 1     | 9.305  | 0.006  | 30853  | 60.1                     | 1        | 9.451  | 0.003  | 17617  | 71.3       |  |
| Aroclor-1254             | 2     | 9.376  | -0.002 | 5370   | 24.5                     | 2        | 9.970  | 0.001  | 2849   | 14.3       |  |
| Aroclor-1254             | 3     | 9.673  | 0.003  | 5543   | 16.9                     | 3        | 10.146 | 0.026  | 88151  | 202.5      |  |
| Aroclor-1254             | 4     | 9.810  | 0.002  | 14544  | 22.6                     | 4        | 10.370 | -0.002 | 107074 | 245.9      |  |
| Aroclor-1254             | 5     | 10.121 | -0.056 | 180016 | 429.7                    | 5        | 10.567 | -0.002 | 141725 | 584.5      |  |
| Total CollAve (5 peaks): |       |        |        | 110.8  | Total Col2Ave (5 peaks): |          |        |        | 223.7  | RPD = 68*  |  |
| Corrected Ave (4 peaks): |       |        |        | 31.0   | Corrected Ave (4 peaks): |          |        |        | 133.5  | RPD = 125* |  |
| Aroclor-1260             | 1     | 11.044 | 0.001  | 310806 | 558.4                    | 1        | 11.652 | -0.001 | 187682 | 498.4      |  |
| Aroclor-1260             | 2     | 11.361 | 0.000  | 263161 | 460.0                    | 2        | 11.917 | -0.000 | 450612 | 473.0      |  |
| Aroclor-1260             | 3     | 11.735 | 0.000  | 629605 | 418.0                    | 3        | 12.433 | -0.003 | 206042 | 867.7      |  |
| Aroclor-1260             | 4     | 12.141 | 0.001  | 210012 | 269.9                    | 4        | 12.502 | -0.000 | 326457 | 529.5      |  |
| Aroclor-1260             | 5     | 12.244 | -0.000 | 268425 | 791.3                    | NS       | ---    |        |        | ----       |  |
| Total CollAve (5 peaks): |       |        |        | 499.5  | Total Col2Ave (4 peaks): |          |        |        | 592.1  | RPD = 17   |  |
| Corrected Ave (4 peaks): |       |        |        | 426.6  | Corrected Ave (3 peaks): |          |        |        | 500.3  | RPD = 16   |  |
| Aroclor-1262             | 1     | 10.828 | -0.005 | 171094 | 426.5                    | 1        | 11.200 | 0.000  | 219731 | 430.1      |  |
| Aroclor-1262             | 2     | 12.244 | -0.002 | 268425 | 423.9                    | 2        | 11.652 | -0.001 | 187682 | 432.0      |  |
| Aroclor-1262             | 3     | 12.319 | -0.002 | 291581 | 424.2                    | 3        | 12.433 | -0.001 | 206042 | 445.4      |  |
| Aroclor-1262             | 4     | 12.988 | -0.001 | 257735 | 411.5                    | 4        | 12.502 | -0.002 | 326457 | 440.6      |  |
| Total CollAve (4 peaks): |       |        |        | 421.5  | Total Col2Ave (4 peaks): |          |        |        | 437.0  | RPD = 4    |  |
| Corrected Ave (3 peaks): |       |        |        | 419.8  | Corrected Ave (3 peaks): |          |        |        | 434.3  | RPD = 3    |  |
| Aroclor-1268             | 1     | 12.244 | -0.001 | 268425 | 163.8                    | 1        | 12.433 | -0.000 | 206042 | 169.0      |  |
| Aroclor-1268             | 2     | 12.319 | 0.001  | 291581 | 178.4                    | 2        | 12.502 | 0.000  | 326457 | 251.7      |  |
| Aroclor-1268             | 3     | 12.725 | 0.026  | 108693 | 80.3                     | 3        | 12.892 | -0.001 | 10062  | 9.3        |  |
| Aroclor-1268             | 4     | 13.486 | -0.003 | 95646  | 23.8                     | 4        | 13.710 | 0.001  | 59437  | 17.8       |  |
| Total CollAve (4 peaks): |       |        |        | 111.6  | Total Col2Ave (4 peaks): |          |        |        | 112.0  | RPD = 0    |  |

Corrected Ave (3 peaks): 89.3      Corrected Ave (3 peaks): 65.4      RPD = 31

Total PCB Area Col1 (5.909 - 13.792) = 4409992      Col1 Total PCB = 0.8 ppm\*  
Total PCB Area Col2 (5.787 - 14.020) = 2874073      Col2 Total PCB = 0.8 ppm\*

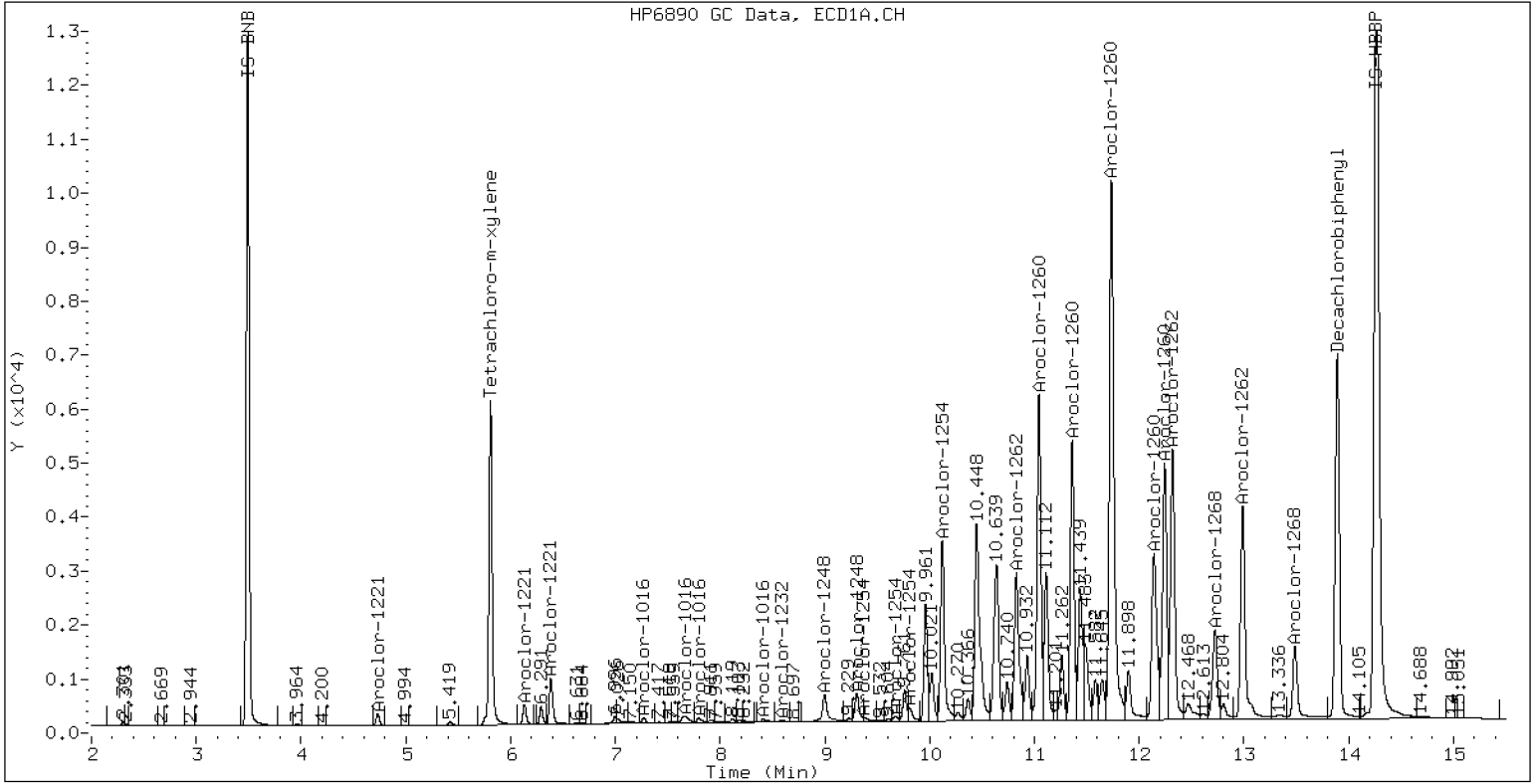
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR2162 SCV

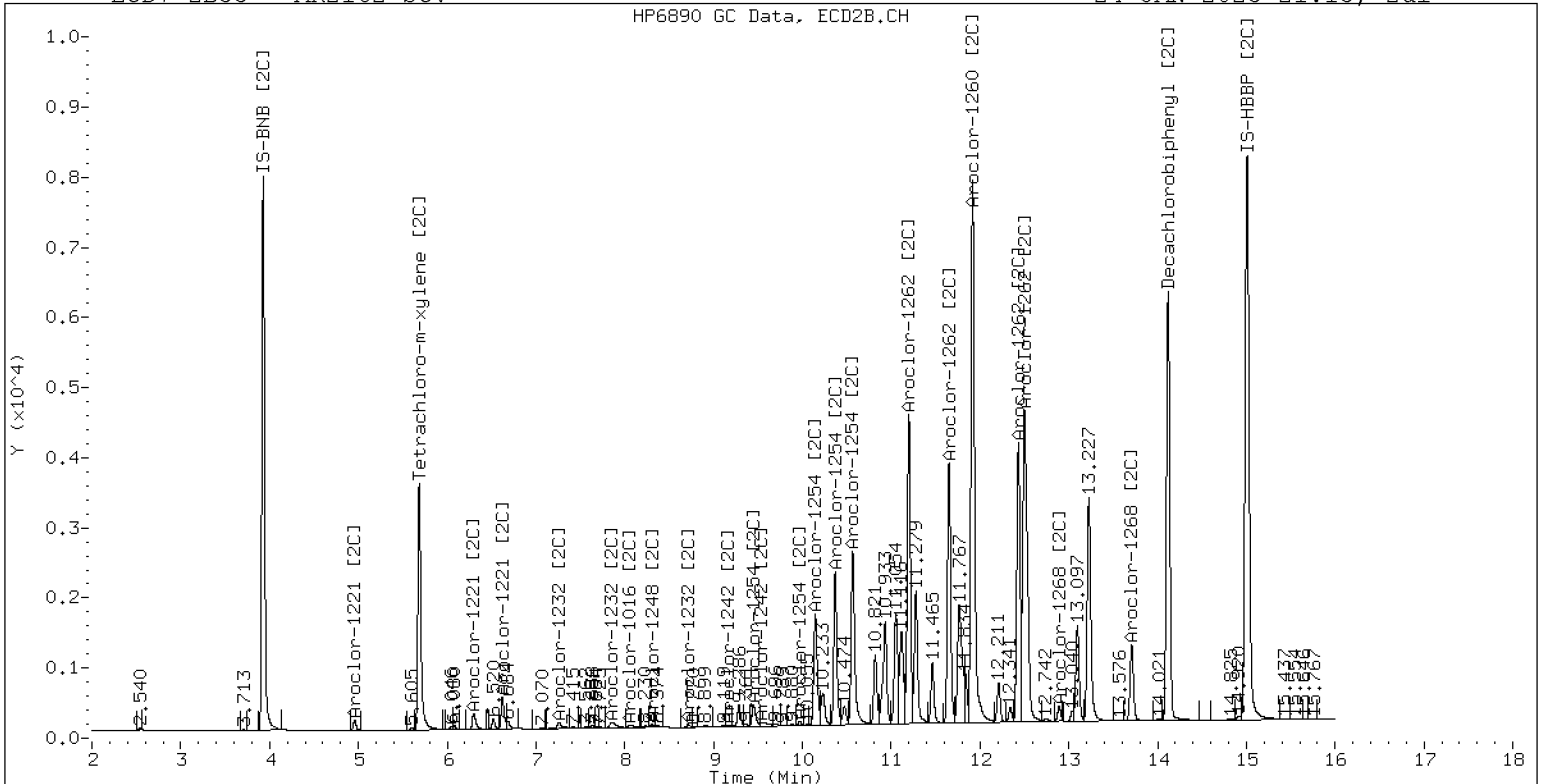
24-JAN-2023 21:15, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162 SCV

24-JAN-2023 21:15, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242329ECD7.D  
Data file 2: /230124.b/230124.b/01242329ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR3268 SCV  
Client ID:  
Injection Date: 24-JAN-2023 21:36  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col<br>Shift | Response | RT     | ZB35 Col<br>Shift | Response | ZB5<br>on col | ZB35<br>on col | RPD | Compound/Flag        |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.810  | 0.001            | 250455   | 5.687  | 0.000             | 162795   | 36.4          | 36.3           | 0.2 | Tetrachloro-m-xylene |
| 13.892 | 0.000            | 551946   | 14.120 | 0.000             | 461901   | 54.6          | 57.9           | 5.9 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 487061      | -3.2 |
| Hexabromobiphenyl  | 647433         | 944934      | 46.0 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 331721      | -1.5 |
| Hexabromobiphenyl  | 382032         | 502401      | 31.5 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |        |                  |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|------------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area   | Amount           |
| Aroclor-1016             | 1     | 7.272  | 0.002  | 19363  | 107.0    | 1                        | 7.256  | 0.001  | 19791  | 110.0            |
| Aroclor-1016             | 2     | 7.659  | 0.009  | 58630  | 97.8     | 2                        | 7.856  | 0.005  | 40139  | 101.8            |
| Aroclor-1016             | 3     | 7.794  | 0.006  | 28286  | 102.5    | 3                        | 8.055  | 0.005  | 17412  | 108.2            |
| Aroclor-1016             | 4     | 8.408  | 0.004  | 17373  | 97.9     | 4                        | 8.308  | 0.003  | 11962  | 94.8             |
| Total CollAve (4 peaks): |       |        |        | 101.3  |          | Total Col2Ave (4 peaks): |        |        |        | 103.7 RPD = 2    |
| Corrected Ave (3 peaks): |       |        |        | 99.4   |          | Corrected Ave (3 peaks): |        |        |        | 101.6 RPD = 2    |
| Aroclor-1221             | 1     | 4.735  | 0.002  | 5022   | 139.5    | 1                        | 4.961  | 0.002  | 3409   | 140.2            |
| Aroclor-1221             | 2     | 6.134  | 0.001  | 8987   | 122.1    | 2                        | 6.299  | 0.001  | 7677   | 144.1            |
| Aroclor-1221             | 3     | 6.385  | 0.001  | 29368  | 171.8    | 3                        | 6.624  | 0.001  | 16198  | 180.1            |
| Total CollAve (3 peaks): |       |        |        | 144.5  |          | Total Col2Ave (3 peaks): |        |        |        | 154.8 RPD = 7    |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |        |                  |
| Aroclor-1232             | 1     | 4.735  | 0.002  | 5022   | 223.5    | 1                        | 4.961  | 0.002  | 3409   | 231.1            |
| Aroclor-1232             | 2     | 6.134  | 0.001  | 8987   | 177.4    | 2                        | 7.256  | -0.001 | 19791  | 239.8            |
| Aroclor-1232             | 3     | 7.659  | 0.001  | 58630  | 231.5    | 3                        | 7.856  | 0.001  | 40139  | 238.8            |
| Aroclor-1232             | 4     | 8.585  | 0.000  | 24991  | 230.5    | 4                        | 8.715  | 0.001  | 11476  | 245.7            |
| Total CollAve (4 peaks): |       |        |        | 215.7  |          | Total Col2Ave (4 peaks): |        |        |        | 238.8 RPD = 10   |
| Corrected Ave (3 peaks): |       |        |        | 210.5  |          | Corrected Ave (3 peaks): |        |        |        | 236.6 RPD = 12   |
| Aroclor-1242             | 1     | 7.272  | 0.001  | 19363  | 129.8    | 1                        | 7.256  | 0.000  | 19791  | 136.4            |
| Aroclor-1242             | 2     | 7.659  | 0.004  | 58630  | 120.1    | 2                        | 7.856  | 0.002  | 40139  | 124.6            |
| Aroclor-1242             | 3     | 8.408  | 0.001  | 17373  | 119.8    | 3                        | 9.166  | 0.006  | 11813  | 117.1            |
| Aroclor-1242             | 4     | 8.585  | 0.003  | 24991  | 114.1    | 4                        | 9.595  | 0.009  | 16549  | 123.7            |
| Total CollAve (4 peaks): |       |        |        | 121.0  |          | Total Col2Ave (4 peaks): |        |        |        | 125.4 RPD = 4    |
| Corrected Ave (3 peaks): |       |        |        | 118.0  |          | Corrected Ave (3 peaks): |        |        |        | 121.8 RPD = 3    |
| Aroclor-1248             | 1     | 8.408  | 0.002  | 17373  | 71.3     | 1                        | 8.308  | 0.003  | 11962  | 79.8             |
| Aroclor-1248             | 2     | 8.585  | 0.005  | 24991  | 80.4     | 2                        | 8.715  | 0.003  | 11476  | 71.1             |
| Aroclor-1248             | 3     | 9.001  | 0.002  | 67631  | 113.8    | 3                        | 9.166  | 0.009  | 11813  | 59.9             |
| Aroclor-1248             | 4     | 9.293  | -0.001 | 30983  | 105.3    | 4                        | 9.595  | 0.014  | 16549  | 67.9             |
| Total CollAve (4 peaks): |       |        |        | 92.7   |          | Total Col2Ave (4 peaks): |        |        |        | 69.7 RPD = 28    |
| Corrected Ave (3 peaks): |       |        |        | 85.7   |          | Corrected Ave (3 peaks): |        |        |        | 66.3 RPD = 26    |
| Aroclor-1254             | 1     | 9.293  | -0.006 | 30983  | 62.4     | 1                        | 9.451  | 0.003  | 3749   | 15.6             |
| Aroclor-1254             | 2     | 9.381  | 0.003  | 9071   | 42.8     | 2                        | 9.974  | 0.005  | 2452   | 12.6             |
| Aroclor-1254             | 3     | 9.678  | 0.009  | 5199   | 16.3     | 3                        | 10.131 | 0.010  | 4718   | 11.1             |
| Aroclor-1254             | 4     | 9.820  | 0.012  | 8864   | 14.2     | 4                        | 10.389 | 0.018  | 4224   | 10.0             |
| Aroclor-1254             | 5     | 10.195 | 0.018  | 8085   | 19.9     | 5                        | 10.573 | 0.004  | 1573   | 6.7              |
| Total CollAve (5 peaks): |       |        |        | 31.1   |          | Total Col2Ave (5 peaks): |        |        |        | 11.2 RPD = 94*   |
| Corrected Ave (4 peaks): |       |        |        | 23.3   |          | Corrected Ave (4 peaks): |        |        |        | 10.1 RPD = 79*   |
| Aroclor-1260             | 1     | 11.050 | 0.006  | 66852  | 126.1    | 1                        | 11.647 | -0.006 | 57235  | 157.9            |
| Aroclor-1260             | 2     | 11.366 | 0.006  | 6269   | 11.5     | 2                        | 11.919 | 0.002  | 25368  | 27.7             |
| Aroclor-1260             | 3     | 11.741 | 0.007  | 41446  | 28.9     | 3                        | 12.434 | -0.002 | 262014 | 1146.4           |
| Aroclor-1260             | 4     | 12.052 | -0.088 | 2691   | 3.6      | 4                        | 12.502 | -0.000 | 277060 | 466.9            |
| Aroclor-1260             | 5     | 12.245 | 0.002  | 349286 | 1080.9   | NS                       | ---    |        |        | ----             |
| Total CollAve (5 peaks): |       |        |        | 250.2  |          | Total Col2Ave (4 peaks): |        |        |        | 449.7 RPD = 57*  |
| Corrected Ave (4 peaks): |       |        |        | 42.5   |          | Corrected Ave (3 peaks): |        |        |        | 217.5 RPD = 135* |
| Aroclor-1262             | 1     | 10.838 | 0.006  | 4520   | 11.8     | 1                        | 11.203 | 0.003  | 40576  | 82.5             |
| Aroclor-1262             | 2     | 12.245 | -0.000 | 349286 | 579.1    | 2                        | 11.647 | -0.006 | 57235  | 136.9            |
| Aroclor-1262             | 3     | 12.318 | -0.002 | 349715 | 534.1    | 3                        | 12.434 | -0.001 | 262014 | 588.4            |
| Aroclor-1262             | 4     | 12.988 | -0.001 | 141905 | 237.8    | 4                        | 12.502 | -0.002 | 277060 | 388.5            |
| Total CollAve (4 peaks): |       |        |        | 340.7  |          | Total Col2Ave (4 peaks): |        |        |        | 299.1 RPD = 13   |
| Corrected Ave (3 peaks): |       |        |        | 261.2  |          | Corrected Ave (3 peaks): |        |        |        | 202.6 RPD = 25   |
| Aroclor-1268             | 1     | 12.245 | 0.001  | 349286 | 223.8    | 1                        | 12.434 | 0.000  | 262014 | 223.3            |
| Aroclor-1268             | 2     | 12.318 | 0.000  | 349715 | 224.6    | 2                        | 12.502 | 0.000  | 277060 | 221.9            |
| Aroclor-1268             | 3     | 12.699 | 0.000  | 289328 | 224.3    | 3                        | 12.893 | -0.000 | 208928 | 201.0            |
| Aroclor-1268             | 4     | 13.490 | 0.001  | 849299 | 222.1    | 4                        | 13.710 | 0.002  | 725831 | 226.1            |
| Total CollAve (4 peaks): |       |        |        | 223.7  |          | Total Col2Ave (4 peaks): |        |        |        | 218.1 RPD = 3    |

Corrected Ave (3 peaks): 223.4      Corrected Ave (3 peaks): 215.4      RPD = 4

Total PCB Area Col1 (5.909 - 13.792) = 2866092      Col1 Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 2084481      Col2 Total PCB = 0.6 ppm\*

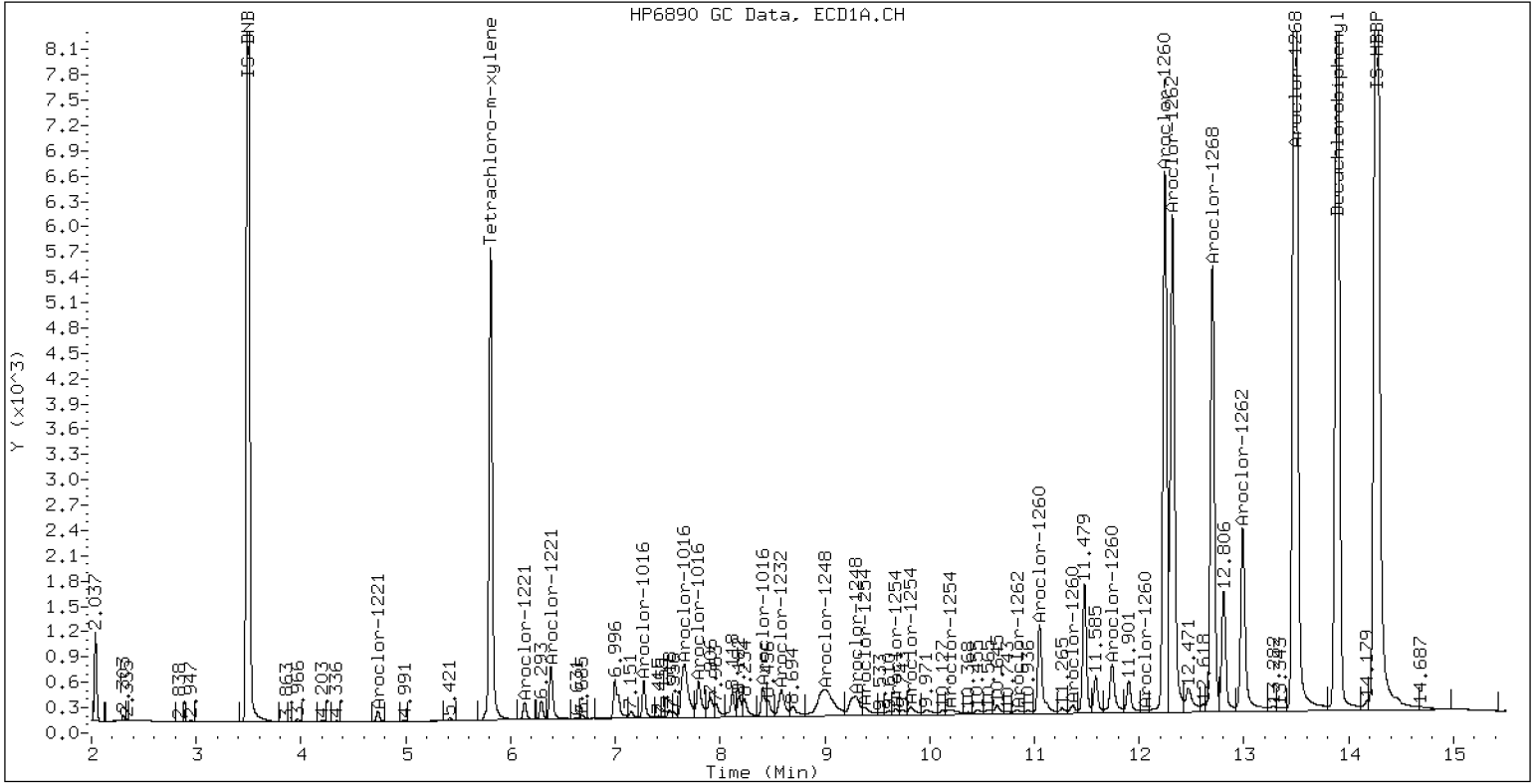
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR3268 SCV

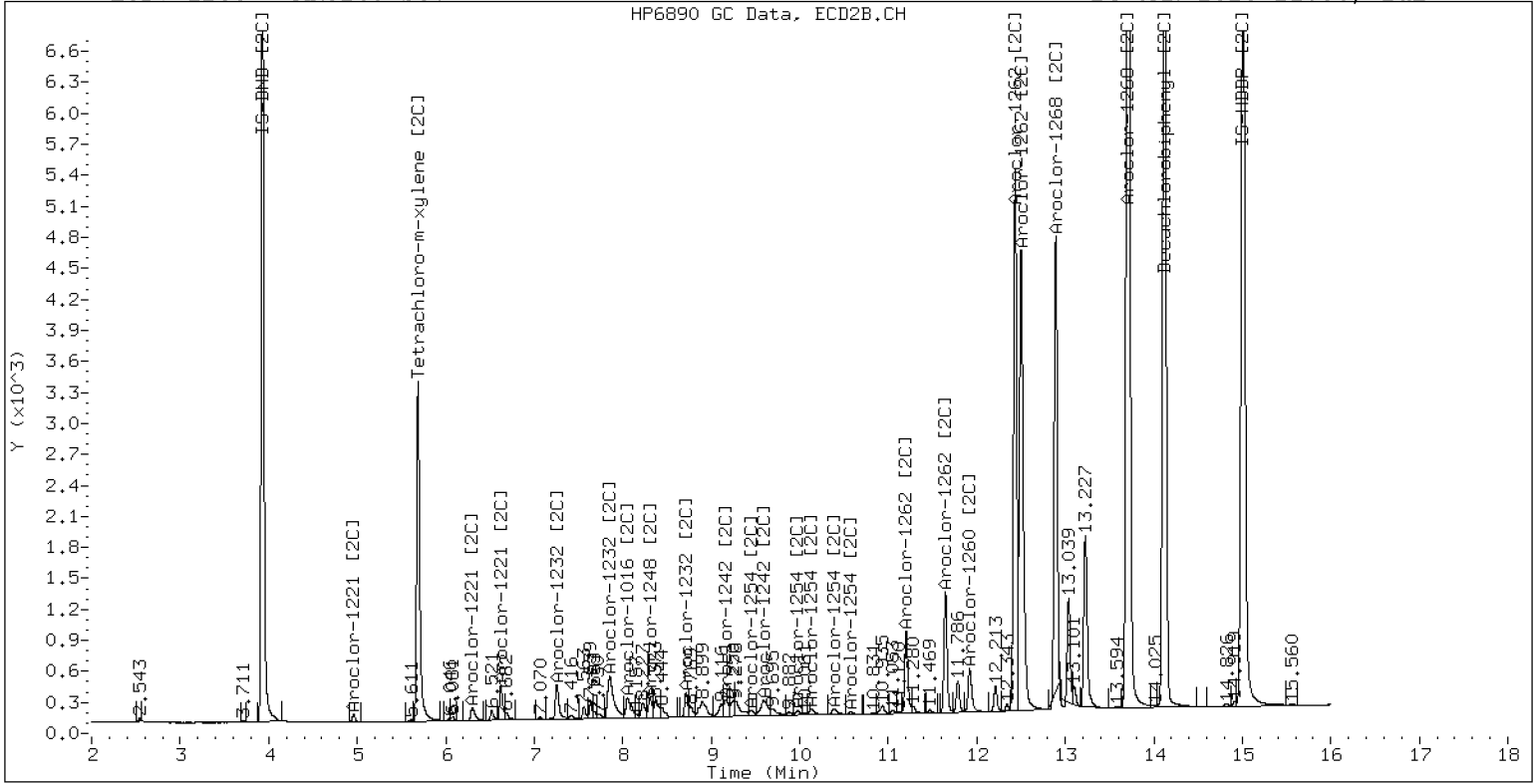
24-JAN-2023 21:36, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268 SCV

24-JAN-2023 21:36, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
8082 DDT SCREEN REPORT

Data file 1: /230124.b/01242330ECD7.D

ARI ID: DDTS

| RT     | ZB5 Col<br>Shift Response | ZB35 Col<br>Shift Response | RT     | ZB5<br>on col | ZB35<br>on col | RPD   | Compound/Flag |
|--------|---------------------------|----------------------------|--------|---------------|----------------|-------|---------------|
| 9.263  | 0.000                     | 519078                     | 9.912  | 0.100         | 0.100          | 0.0   | 2,4-DDE       |
| 10.296 | 0.000                     | 1468204                    | 10.666 | 0.100         | 0.200#         | 66.7* | 2,4-DDT       |
| 9.687  | 0.000                     | 883988                     | 10.211 | 0.100         | 0.100          | 0.0   | 4,4-DDE       |
| 0.000  | -10.281                   | 0                          | 10.666 | 0.000         | 0.200#         | ----  | 4,4-DDD       |

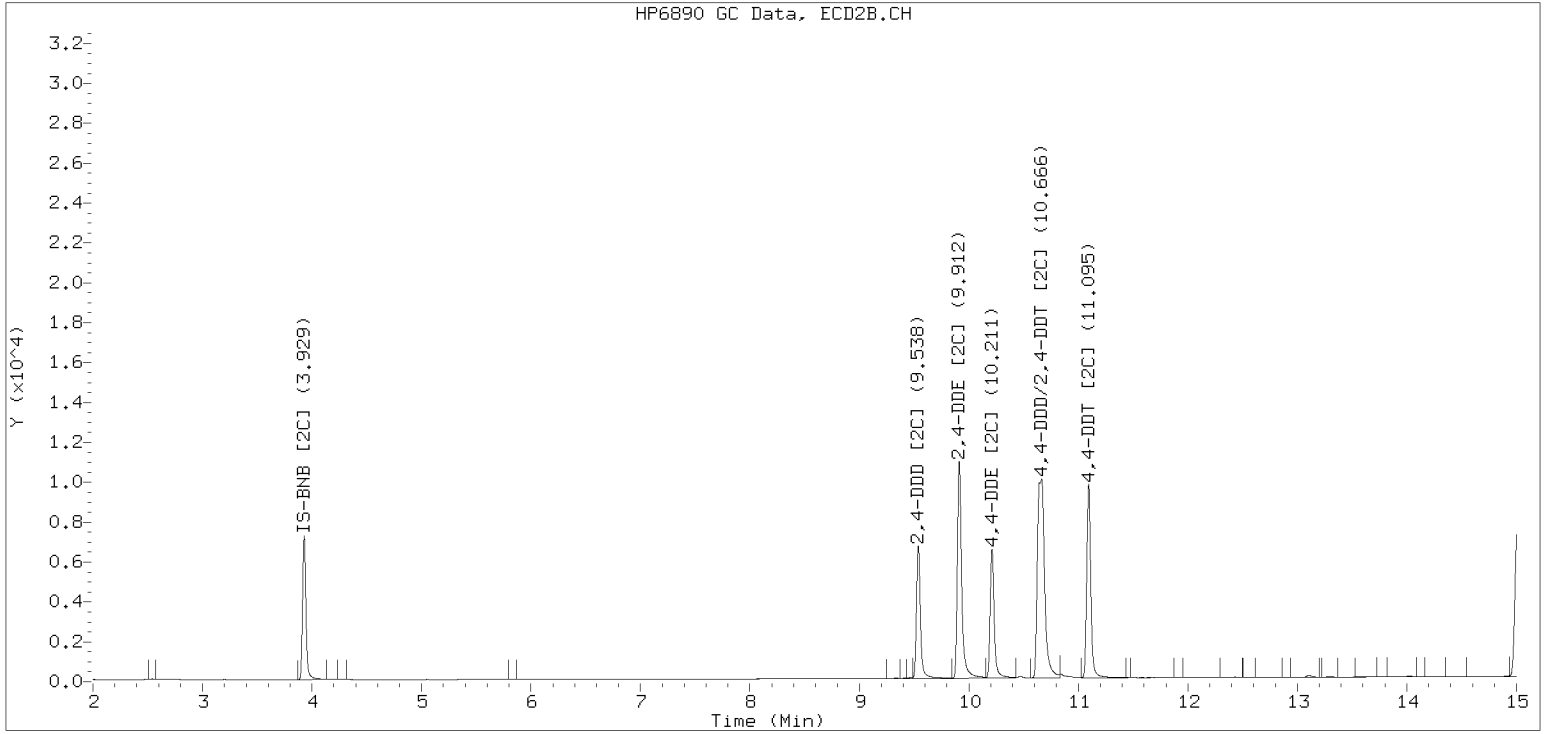
# Indicates value is from co-eluting peaks

\* Indicates RPD > 40%

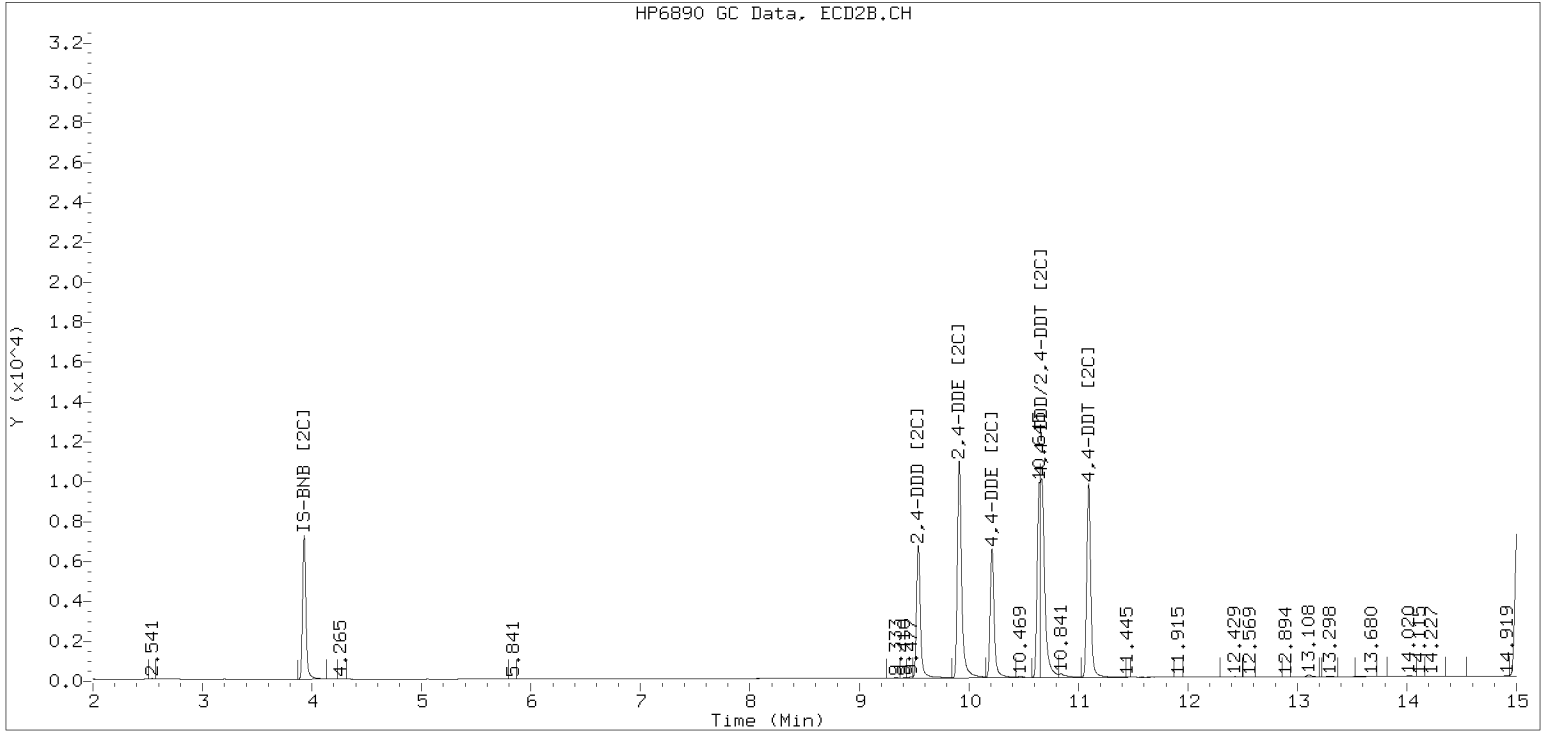
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230124.b/230124.b/01242330ECD7.D Injection Date: 24-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242331ECD7.D  
Data file 2: /230124.b/230124.b/01242331ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: DDT BD  
Client ID:  
Injection Date: 24-JAN-2023 22:18  
Report Date: 01/25/2023 10:54  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT    | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD    | Compound/Flag        |
|--------|---------------|----------|-------|----------------|----------|------------|-------------|--------|----------------------|
| 5.809  | -0.000        | 249607   | 0.000 | 0.000          | 0        | 36.2       | 0.1         | 198.6* | Tetrachloro-m-xylene |
| 13.893 | 0.001         | 342925   | 0.000 | 0.000          | 0        | 33.3       | 0.1         | 198.4* | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 488086      | -3.0 |
| Hexabromobiphenyl  | 647433         | 963404      | 48.8 |

| Standard Cpnd      | Column 2       |             |       |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 336911         | 334787      | -0.6  |
| Hexabromobiphenyl  | 382032         | 334787      | -12.4 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                         |        |        |        |        |
|--------------------------|-------|--------|--------|--------|----------|-------------------------|--------|--------|--------|--------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                   | RT     | Shift  | Area   | Amount |
| Aroclor-1016             | 1     | ---    |        |        | 0.0      | 1                       | 3.929  | -0.000 | 334787 | 80.0   |
| Aroclor-1016             | 2     | ---    |        |        | 0.0      | NS                      | ---    |        |        | ----   |
| Aroclor-1016             | 3     | ---    |        |        | 0.0      | NS                      | ---    |        |        | ----   |
| Aroclor-1016             | 4     | ---    |        |        | 0.0      | NS                      | ---    |        |        | ----   |
| CollAve: <3 Quant Peaks  |       |        |        |        |          | Col2Ave: <3 Quant Peaks |        |        |        |        |
| Aroclor-1221             | 1     | ---    |        |        | 0.0      | 1                       | 9.924  | 0.012  | 8335   | 0.0    |
| Aroclor-1221             | 2     | ---    |        |        | 0.0      | NS                      | ---    |        |        | ----   |
| Aroclor-1221             | 3     | ---    |        |        | 0.0      | NS                      | ---    |        |        | ----   |
| CollAve: <3 Quant Peaks  |       |        |        |        |          | Col2Ave: <3 Quant Peaks |        |        |        |        |
| Aroclor-1232             | 1     | ---    |        |        | 0.0      | 1                       | ---    |        |        | 0.0    |
| Aroclor-1232             | 2     | ---    |        |        | 0.0      | NS                      | ---    |        |        | ----   |
| Aroclor-1232             | 3     | ---    |        |        | 0.0      | NS                      | ---    |        |        | ----   |
| Aroclor-1232             | 4     | ---    |        |        | 0.0      | NS                      | ---    |        |        | ----   |
| CollAve: <3 Quant Peaks  |       |        |        |        |          | Col2Ave: <3 Quant Peaks |        |        |        |        |
| Aroclor-1242             | 1     | ---    |        |        | 0.0      | 1                       | ---    |        |        | 0.0    |
| Aroclor-1242             | 2     | ---    |        |        | 0.0      | NS                      | ---    |        |        | ----   |
| Aroclor-1242             | 3     | ---    |        |        | 0.0      | NS                      | ---    |        |        | ----   |
| Aroclor-1242             | 4     | ---    |        |        | 0.0      | NS                      | ---    |        |        | ----   |
| CollAve: <3 Quant Peaks  |       |        |        |        |          | Col2Ave: <3 Quant Peaks |        |        |        |        |
| Aroclor-1248             | 1     | ---    |        |        | 0.0      | 1                       | 10.681 | 0.016  | 29738  | 0.0    |
| Aroclor-1248             | 2     | ---    |        |        | 0.0      | NS                      | ---    |        |        | ----   |
| Aroclor-1248             | 3     | 8.973  | -0.026 | 2304   | 3.9      | NS                      | ---    |        |        | ----   |
| Aroclor-1248             | 4     | 9.235  | -0.059 | 1484   | 5.0      | NS                      | ---    |        |        | ----   |
| CollAve: <3 Quant Peaks  |       |        |        |        |          | Col2Ave: <3 Quant Peaks |        |        |        |        |
| Aroclor-1254             | 1     | 9.235  | -0.064 | 1484   | 3.0      | 1                       | 11.098 | 0.003  | 696435 | 0.1    |
| Aroclor-1254             | 2     | 9.378  | -0.000 | 295    | 1.4      | NS                      | ---    |        |        | ----   |
| Aroclor-1254             | 3     | 9.703  | 0.034  | 11396  | 35.8     | NS                      | ---    |        |        | ----   |
| Aroclor-1254             | 4     | ---    |        |        | 0.0      | NS                      | ---    |        |        | ----   |
| Aroclor-1254             | 5     | 10.272 | 0.095  | 32481  | 80.0     | NS                      | ---    |        |        | ----   |
| Total CollAve (4 peaks): |       |        |        | 30.0   |          | Col2Ave: <3 Quant Peaks |        |        |        |        |
| Aroclor-1260             | 1     | 11.115 | 0.071  | 9308   | 17.2     | 1                       | ---    |        |        | 0.0    |
| Aroclor-1260             | 2     | 11.344 | -0.016 | 232461 | 418.4    | NS                      | ---    |        |        | ----   |
| Aroclor-1260             | 3     | 11.698 | -0.036 | 294    | 0.2      | NS                      | ---    |        |        | ----   |
| Aroclor-1260             | 4     | ---    |        |        | 0.0      | NS                      | ---    |        |        | ----   |
| Aroclor-1260             | 5     | ---    |        |        | 0.0      | NS                      | ---    |        |        | ----   |
| Total CollAve (3 peaks): |       |        |        | 145.3  |          | Col2Ave: <3 Quant Peaks |        |        |        |        |
| Aroclor-1262             | 1     | 10.763 | -0.070 | 892438 | 2290.6   | 1                       | ---    |        |        | 0.0    |
| Aroclor-1262             | 2     | ---    |        |        | 0.0      | NS                      | ---    |        |        | ----   |
| Aroclor-1262             | 3     | ---    |        |        | 0.0      | NS                      | ---    |        |        | ----   |
| Aroclor-1262             | 4     | 12.990 | 0.001  | 748    | 1.2      | NS                      | ---    |        |        | ----   |
| CollAve: <3 Quant Peaks  |       |        |        |        |          | Col2Ave: <3 Quant Peaks |        |        |        |        |
| Aroclor-1268             | 1     | ---    |        |        | 0.0      | 1                       | ---    |        |        | 0.0    |
| Aroclor-1268             | 2     | ---    |        |        | 0.0      | NS                      | ---    |        |        | ----   |
| Aroclor-1268             | 3     | 12.620 | -0.079 | 4678   | 3.6      | NS                      | ---    |        |        | ----   |
| Aroclor-1268             | 4     | 13.510 | 0.021  | 3115   | 0.8      | NS                      | ---    |        |        | ----   |
| CollAve: <3 Quant Peaks  |       |        |        |        |          | Col2Ave: <3 Quant Peaks |        |        |        |        |

Total PCB Area Coll1 (5.909 - 13.792) = 1961348

Coll1 Total PCB = 0.3 ppm\*

Total PCB Area Col2 (5.909 - 13.792) = 1177441 Col2 Total PCB = 0.3 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

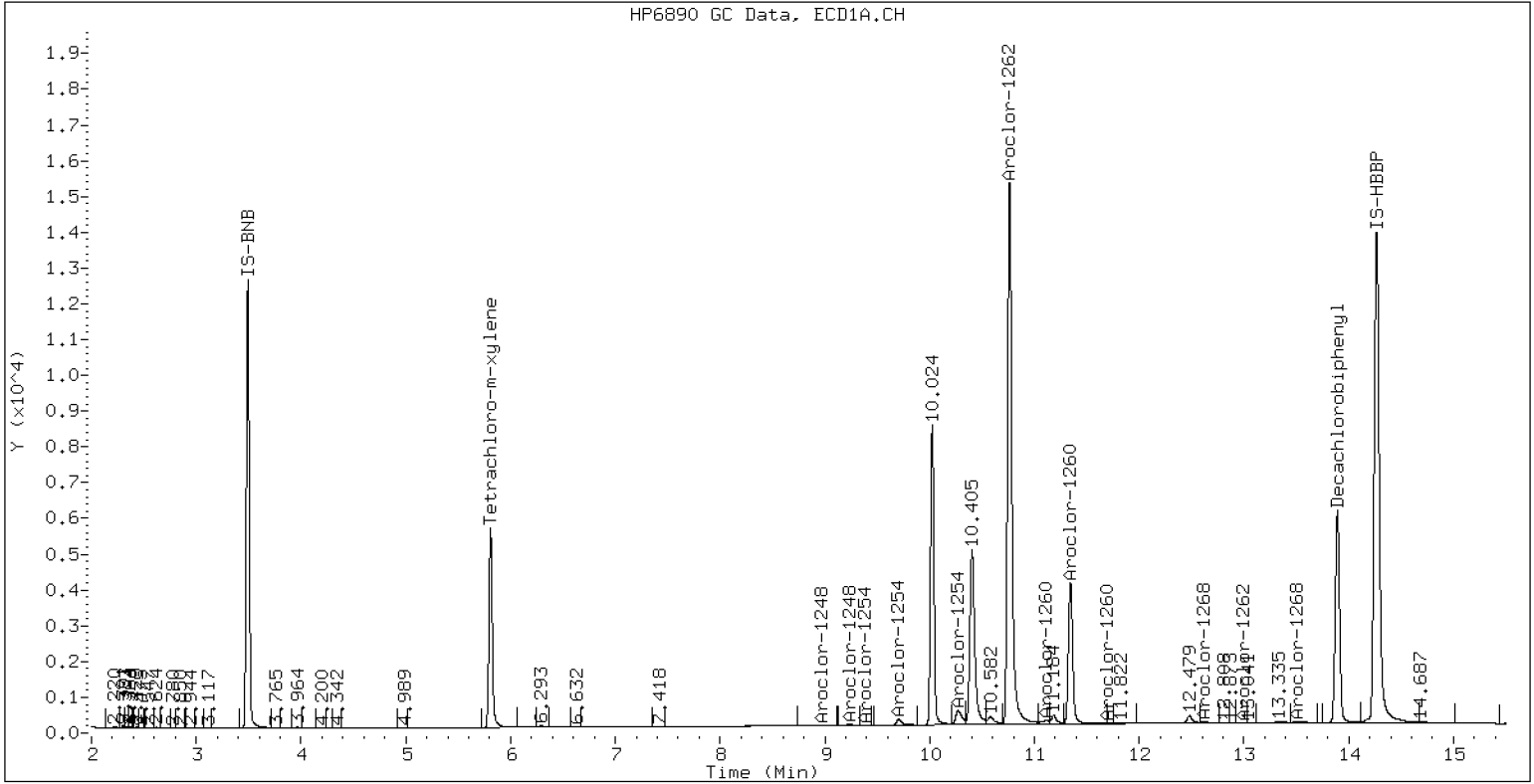
PCB-Form 10 Mod.



# PCB Dual Column Chromatograms

ECD7-ZB5 DDT BD

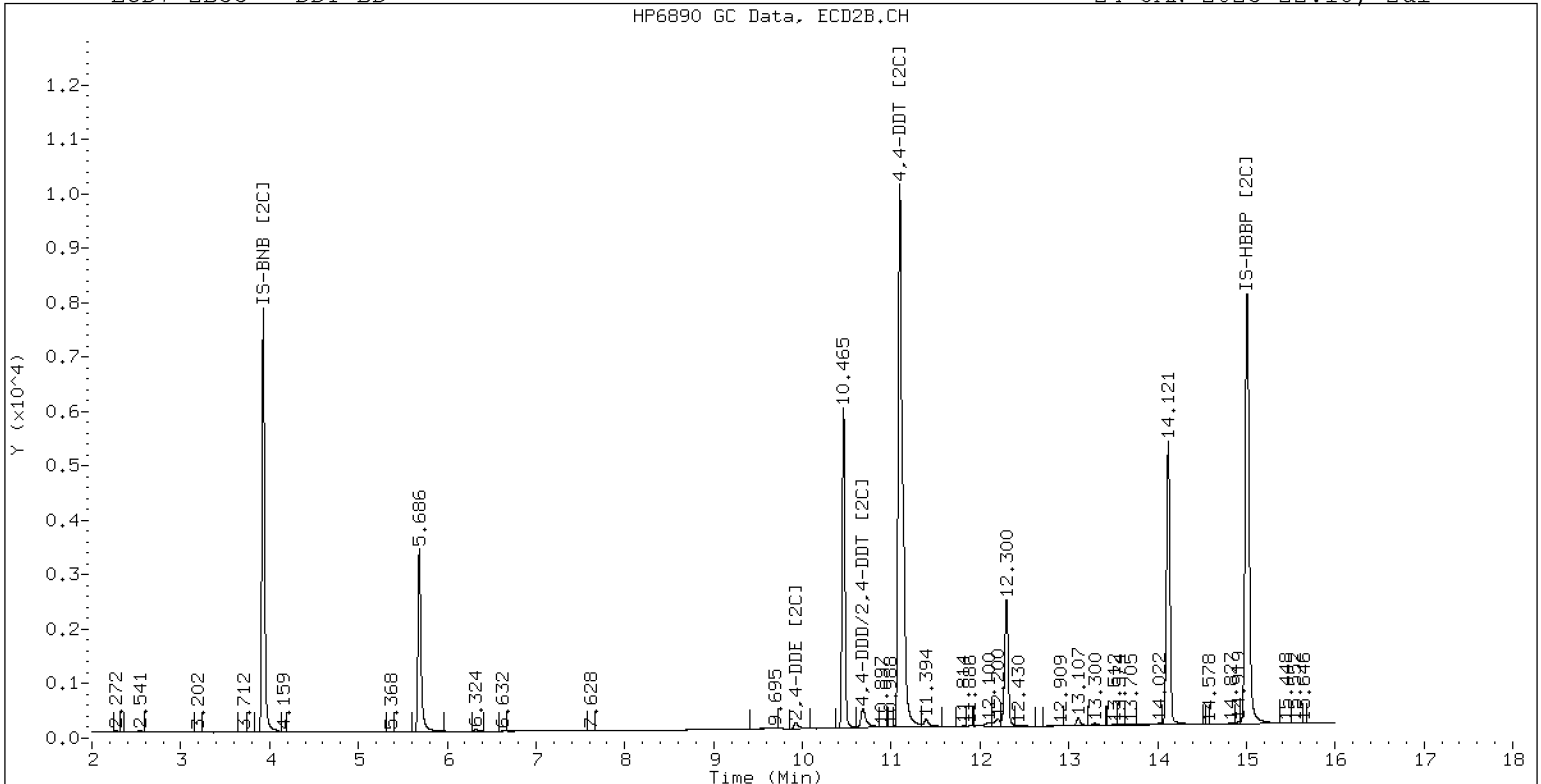
24-JAN-2023 22:18, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 DDT BD

24-JAN-2023 22:18, 2ul



ZB-35 Manual Integration: NO



**INITIAL CALIBRATION DATA**  
**EPA 8082A**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GE00022                   | Instrument: | ECD7            |
| Calibration Date: | 05/05/2023                | Column (1): | ZB5             |

| Compound              | Level 01 |              | Level 02 |              | Level 03 |              | Level 04 |              | Level 05 |              | Level 06 |              |
|-----------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|
|                       | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          |
| Aroclor 1016          | 250      | 0.0494162    | 20       | 4.532998E-02 | 50       | 4.853547E-02 | 1000     | 0.0432727    | 100      | 5.300612E-02 | 500      | 4.707631E-02 |
| Aroclor-1016 (1)      | 250      | 3.137838E-02 | 20       | 3.258869E-02 | 50       | 3.226345E-02 | 1000     | 2.592113E-02 | 100      | 3.461726E-02 | 500      | 2.908922E-02 |
| Aroclor-1016 (2)      | 250      | 0.1020916    | 20       | 8.781887E-02 | 50       | 0.0941758    | 1000     | 0.0925401    | 100      | 0.1052028    | 500      | 9.933727E-02 |
| Aroclor-1016 (3)      | 250      | 4.518712E-02 | 20       | 0.0437516    | 50       | 4.849089E-02 | 1000     | 3.826082E-02 | 100      | 5.093761E-02 | 500      | 4.204761E-02 |
| Aroclor-1016 (4)      | 250      | 0.0190077    | 20       | 1.716078E-02 | 50       | 1.921174E-02 | 1000     | 1.636875E-02 | 100      | 2.126675E-02 | 500      | 1.783115E-02 |
| Aroclor 1260          | 250      | 5.260043E-02 | 20       | 5.628385E-02 | 50       | 5.196241E-02 | 1000     | 4.766185E-02 | 100      | 5.558896E-02 | 500      | 0.0504862    |
| Aroclor-1260 (1)      | 250      | 4.229749E-02 | 20       | 4.580229E-02 | 50       | 0.0418668    | 1000     | 0.0383433    | 100      | 4.489466E-02 | 500      | 4.061411E-02 |
| Aroclor-1260 (2)      | 250      | 4.189449E-02 | 20       | 4.433945E-02 | 50       | 4.114713E-02 | 1000     | 3.831045E-02 | 100      | 4.437556E-02 | 500      | 4.042893E-02 |
| Aroclor-1260 (3)      | 250      | 0.1051013    | 20       | 0.1116982    | 50       | 0.1043382    | 1000     | 9.463532E-02 | 100      | 0.1111587    | 500      | 0.1004267    |
| Aroclor-1260 (4)      | 250      | 0.0516917    | 20       | 5.459749E-02 | 50       | 4.999767E-02 | 1000     | 0.0472006    | 100      | 5.381565E-02 | 500      | 0.0499592    |
| Aroclor-1260 (5)      | 250      | 2.201717E-02 | 20       | 2.498183E-02 | 50       | 2.246226E-02 | 1000     | 1.981958E-02 | 100      | 2.370029E-02 | 500      | 2.100203E-02 |
| Decachlorobiphenyl    | 40       | 0.7794462    | 3.2      | 0.8975218    | 8        | 0.8371499    | 160      | 0.7050808    | 16       | 0.8485148    | 80       | 0.7271303    |
| Tetrachlorometaxylene | 40       | 1.226686     | 3.2      | 1.21049      | 8        | 1.182524     | 160      | 1.140526     | 16       | 1.29993      | 80       | 1.168782     |



## INITIAL CALIBRATION DATA EPA 8082A

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GE00022                   | Instrument: | ECD7            |
| Calibration Date: | 05/05/2023                | Column (1): | ZB5             |

| Compound         | Level 07 |              | Level 08 |              | Level 09 |              | Level 10 |              | Level 11 |              | Level 12 |     |
|------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|-----|
|                  | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF |
| Aroclor 1221     |          |              |          |              |          |              | 250      | 1.457516E-02 |          |              |          |     |
| Aroclor-1221 (1) |          |              |          |              |          |              | 250      | 5.626378E-03 |          |              |          |     |
| Aroclor-1221 (2) |          |              |          |              |          |              | 250      | 1.128806E-02 |          |              |          |     |
| Aroclor-1221 (3) |          |              |          |              |          |              | 250      | 2.681103E-02 |          |              |          |     |
| Aroclor 1232     |          |              |          |              |          |              |          |              | 250      | 1.614998E-02 |          |     |
| Aroclor-1232 (1) |          |              |          |              |          |              |          |              | 250      | 3.747872E-03 |          |     |
| Aroclor-1232 (2) |          |              |          |              |          |              |          |              | 250      | 7.798392E-03 |          |     |
| Aroclor-1232 (3) |          |              |          |              |          |              |          |              | 250      | 3.715176E-02 |          |     |
| Aroclor-1232 (4) |          |              |          |              |          |              |          |              | 250      | 1.590191E-02 |          |     |
| Aroclor 1242     | 250      | 3.907373E-02 |          |              |          |              |          |              |          |              |          |     |
| Aroclor-1242 (1) | 250      | 2.520807E-02 |          |              |          |              |          |              |          |              |          |     |
| Aroclor-1242 (2) | 250      | 7.988013E-02 |          |              |          |              |          |              |          |              |          |     |
| Aroclor-1242 (3) | 250      | 1.545019E-02 |          |              |          |              |          |              |          |              |          |     |
| Aroclor-1242 (4) | 250      | 3.575655E-02 |          |              |          |              |          |              |          |              |          |     |
| Aroclor 1248     |          |              | 250      | 5.688792E-02 |          |              |          |              |          |              |          |     |
| Aroclor-1248 (1) |          |              | 250      | 2.041932E-02 |          |              |          |              |          |              |          |     |
| Aroclor-1248 (2) |          |              | 250      | 5.306328E-02 |          |              |          |              |          |              |          |     |
| Aroclor-1248 (3) |          |              | 250      | 0.1020488    |          |              |          |              |          |              |          |     |
| Aroclor-1248 (4) |          |              | 250      | 5.202029E-02 |          |              |          |              |          |              |          |     |
| Aroclor 1254     |          |              |          |              | 250      | 6.780072E-02 |          |              |          |              |          |     |
| Aroclor-1254 (1) |          |              |          |              | 250      | 8.222188E-02 |          |              |          |              |          |     |
| Aroclor-1254 (2) |          |              |          |              | 250      | 3.694251E-02 |          |              |          |              |          |     |
| Aroclor-1254 (3) |          |              |          |              | 250      | 5.307929E-02 |          |              |          |              |          |     |
| Aroclor-1254 (4) |          |              |          |              | 250      | 0.1039691    |          |              |          |              |          |     |
| Aroclor-1254 (5) |          |              |          |              | 250      | 6.279077E-02 |          |              |          |              |          |     |
| Aroclor 1262     |          |              |          |              |          |              | 250      | 4.659643E-02 |          |              |          |     |
| Aroclor-1262 (1) |          |              |          |              |          |              | 250      | 3.619126E-02 |          |              |          |     |
| Aroclor-1262 (2) |          |              |          |              |          |              | 250      | 5.089701E-02 |          |              |          |     |



**INITIAL CALIBRATION DATA**  
**EPA 8082A**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GE00022                   | Instrument: | ECD7            |
| Calibration Date: | 05/05/2023                | Column (1): | ZB5             |

| Compound         | Level 07 |     | Level 08 |     | Level 09 |     | Level 10 |              | Level 11 |           | Level 12 |     |
|------------------|----------|-----|----------|-----|----------|-----|----------|--------------|----------|-----------|----------|-----|
|                  | Conc     | RRF | Conc     | RRF | Conc     | RRF | Conc     | RRF          | Conc     | RRF       | Conc     | RRF |
| Aroclor-1262 (3) |          |     |          |     |          |     | 250      | 5.471234E-02 |          |           |          |     |
| Aroclor-1262 (4) |          |     |          |     |          |     | 250      | 4.458506E-02 |          |           |          |     |
| Aroclor 1268     |          |     |          |     |          |     |          |              | 250      | 0.161799  |          |     |
| Aroclor-1268 (1) |          |     |          |     |          |     |          |              | 250      | 0.1275909 |          |     |
| Aroclor-1268 (2) |          |     |          |     |          |     |          |              | 250      | 0.1267143 |          |     |
| Aroclor-1268 (3) |          |     |          |     |          |     |          |              | 250      | 0.1019109 |          |     |
| Aroclor-1268 (4) |          |     |          |     |          |     |          |              | 250      | 0.2909801 |          |     |



**INITIAL CALIBRATION DATA**  
**EPA 8082A**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GE00022                   | Instrument: | ECD7            |
| Calibration Date: | 05/05/2023                | Column (1): | ZB5             |

| COMPOUND         | Mean RRF     | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|------------------|--------------|---------|------------|----------|--------------------|---|
| Aroclor 1016     | 0.0477728    | 7.1     |            |          | RSD (20)           |   |
| Aroclor-1016 (1) | 3.097636E-02 | 9.9     |            |          | RSD (20)           |   |
| Aroclor-1016 (2) | 9.686107E-02 | 6.7     |            |          | RSD (20)           |   |
| Aroclor-1016 (3) | 4.477928E-02 | 10.1    |            |          | RSD (20)           |   |
| Aroclor-1016 (4) | 1.847448E-02 | 9.4     |            |          | RSD (20)           |   |
| Aroclor 1221     |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1221 (1) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1221 (2) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1221 (3) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1232     |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1232 (1) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1232 (2) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1232 (3) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1232 (4) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1242     |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1242 (1) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1242 (2) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1242 (3) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1242 (4) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1248     |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1248 (1) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1248 (2) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1248 (3) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1248 (4) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1254     |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1254 (1) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1254 (2) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1254 (3) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1254 (4) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1254 (5) |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1260     | 5.243062E-02 | 6.1     |            |          | RSD (20)           |   |



**INITIAL CALIBRATION DATA**  
**EPA 8082A**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GE00022                   | Instrument: | ECD7            |
| Calibration Date: | 05/05/2023                | Column (1): | ZB5             |

| COMPOUND              | Mean RRF     | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|-----------------------|--------------|---------|------------|----------|--------------------|---|
| Aroclor-1260 (1)      | 4.230311E-02 | 6.5     |            |          | RSD (20)           |   |
| Aroclor-1260 (2)      | 4.174934E-02 | 5.6     |            |          | RSD (20)           |   |
| Aroclor-1260 (3)      | 0.1045597    | 6.2     |            |          | RSD (20)           |   |
| Aroclor-1260 (4)      | 5.121039E-02 | 5.4     |            |          | RSD (20)           |   |
| Aroclor-1260 (5)      | 2.233053E-02 | 8.3     |            |          | RSD (20)           |   |
| Aroclor 1262          |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1262 (1)      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1262 (2)      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1262 (3)      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1262 (4)      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1268          |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1268 (1)      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1268 (2)      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1268 (3)      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1268 (4)      |              | 0.0     |            |          | RSD (20)           |   |
| Decachlorobiphenyl    | 0.7991406    | 9.4     |            |          | RSD (20)           |   |
| Tetrachlorometaxylene | 1.204823     | 4.6     |            |          | RSD (20)           |   |



**INITIAL CALIBRATION DATA**  
**EPA 8082A**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GE00022                   | Instrument: | ECD7            |
| Calibration Date: | 05/05/2023                | Column (2): | ZB35            |

| Compound                   | Level 01 |              | Level 02 |              | Level 03 |              | Level 04 |              | Level 05 |              | Level 06 |              |
|----------------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|
|                            | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          |
| Aroclor 1016 [2C]          | 250      | 5.431445E-02 | 20       | 5.755321E-02 | 50       | 5.623255E-02 | 1000     | 4.860069E-02 | 100      | 5.851589E-02 | 500      | 5.204411E-02 |
| Aroclor-1016 (1) [2C]      | 250      | 4.442671E-02 | 20       | 5.158091E-02 | 50       | 4.743051E-02 | 1000     | 3.802133E-02 | 100      | 4.866225E-02 | 500      | 4.159498E-02 |
| Aroclor-1016 (2) [2C]      | 250      | 9.745237E-02 | 20       | 9.849733E-02 | 50       | 9.560411E-02 | 1000     | 9.038411E-02 | 100      | 0.1018298    | 500      | 9.528017E-02 |
| Aroclor-1016 (3) [2C]      | 250      | 4.229758E-02 | 20       | 4.378709E-02 | 50       | 4.462224E-02 | 1000     | 3.801497E-02 | 100      | 4.621674E-02 | 500      | 0.0404581    |
| Aroclor-1016 (4) [2C]      | 250      | 3.308114E-02 | 20       | 3.634753E-02 | 50       | 3.727334E-02 | 1000     | 2.798232E-02 | 100      | 3.735476E-02 | 500      | 3.084311E-02 |
| Aroclor 1260 [2C]          | 250      | 6.505764E-02 | 20       | 6.569768E-02 | 50       | 6.337683E-02 | 1000     | 5.893668E-02 | 100      | 6.768726E-02 | 500      | 6.232632E-02 |
| Aroclor-1260 (1) [2C]      | 250      | 4.278892E-02 | 20       | 4.543978E-02 | 50       | 4.273243E-02 | 1000     | 3.816214E-02 | 100      | 4.503751E-02 | 500      | 4.075974E-02 |
| Aroclor-1260 (2) [2C]      | 250      | 0.1137836    | 20       | 0.1128173    | 50       | 0.1108523    | 1000     | 0.1019853    | 100      | 0.1191905    | 500      | 0.1081464    |
| Aroclor-1260 (3) [2C]      | 250      | 2.779854E-02 | 20       | 2.783171E-02 | 50       | 2.651547E-02 | 1000     | 2.742971E-02 | 100      | 2.791113E-02 | 500      | 2.774857E-02 |
| Aroclor-1260 (4) [2C]      | 250      | 0.0758595    | 20       | 7.670195E-02 | 50       | 7.340713E-02 | 1000     | 6.816956E-02 | 100      | 7.860987E-02 | 500      | 7.265057E-02 |
| Decachlorobiphenyl [2C]    | 40       | 1.183432     | 3.2      | 1.044344     | 8        | 1.074026     | 160      | 1.130044     | 16       | 1.220049     | 80       | 1.164189     |
| Tetrachlorometaxylene [2C] | 40       | 1.130537     | 3.2      | 1.090766     | 8        | 1.076407     | 160      | 1.045589     | 16       | 1.181288     | 80       | 1.078696     |



**INITIAL CALIBRATION DATA**  
**EPA 8082A**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GE00022                   | Instrument: | ECD7            |
| Calibration Date: | 05/05/2023                | Column (2): | ZB35            |

| Compound              | Level 07 |              | Level 08 |              | Level 09 |              | Level 10 |              | Level 11 |              | Level 12 |     |
|-----------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|-----|
|                       | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF          | Conc     | RRF |
| Aroclor 1221 [2C]     |          |              |          |              |          |              | 250      | 1.245566E-02 |          |              |          |     |
| Aroclor-1221 (1) [2C] |          |              |          |              |          |              | 250      | 5.90099E-03  |          |              |          |     |
| Aroclor-1221 (2) [2C] |          |              |          |              |          |              | 250      | 1.222989E-02 |          |              |          |     |
| Aroclor-1221 (3) [2C] |          |              |          |              |          |              | 250      | 1.923608E-02 |          |              |          |     |
| Aroclor 1232 [2C]     |          |              |          |              |          |              |          |              | 250      | 1.671987E-02 |          |     |
| Aroclor-1232 (1) [2C] |          |              |          |              |          |              |          |              | 250      | 3.102529E-03 |          |     |
| Aroclor-1232 (2) [2C] |          |              |          |              |          |              |          |              | 250      | 0.0177626    |          |     |
| Aroclor-1232 (3) [2C] |          |              |          |              |          |              |          |              | 250      | 3.568085E-02 |          |     |
| Aroclor-1232 (4) [2C] |          |              |          |              |          |              |          |              | 250      | 1.033351E-02 |          |     |
| Aroclor 1242 [2C]     | 250      | 4.139652E-02 |          |              |          |              |          |              |          |              |          |     |
| Aroclor-1242 (1) [2C] | 250      | 0.0357524    |          |              |          |              |          |              |          |              |          |     |
| Aroclor-1242 (2) [2C] | 250      | 0.0760619    |          |              |          |              |          |              |          |              |          |     |
| Aroclor-1242 (3) [2C] | 250      | 2.438456E-02 |          |              |          |              |          |              |          |              |          |     |
| Aroclor-1242 (4) [2C] | 250      | 2.938723E-02 |          |              |          |              |          |              |          |              |          |     |
| Aroclor 1248 [2C]     |          |              | 250      | 4.547256E-02 |          |              |          |              |          |              |          |     |
| Aroclor-1248 (1) [2C] |          |              | 250      | 3.805793E-02 |          |              |          |              |          |              |          |     |
| Aroclor-1248 (2) [2C] |          |              | 250      | 4.020106E-02 |          |              |          |              |          |              |          |     |
| Aroclor-1248 (3) [2C] |          |              | 250      | 4.712363E-02 |          |              |          |              |          |              |          |     |
| Aroclor-1248 (4) [2C] |          |              | 250      | 5.650761E-02 |          |              |          |              |          |              |          |     |
| Aroclor 1254 [2C]     |          |              |          |              | 250      | 0.0720677    |          |              |          |              |          |     |
| Aroclor-1254 (1) [2C] |          |              |          |              | 250      | 6.078104E-02 |          |              |          |              |          |     |
| Aroclor-1254 (2) [2C] |          |              |          |              | 250      | 3.610738E-02 |          |              |          |              |          |     |
| Aroclor-1254 (3) [2C] |          |              |          |              | 250      | 4.926631E-02 |          |              |          |              |          |     |
| Aroclor-1254 (4) [2C] |          |              |          |              | 250      | 0.1075138    |          |              |          |              |          |     |
| Aroclor-1254 (5) [2C] |          |              |          |              | 250      | 0.1066699    |          |              |          |              |          |     |
| Aroclor 1262 [2C]     |          |              |          |              |          |              | 250      | 6.915026E-02 |          |              |          |     |
| Aroclor-1262 (1) [2C] |          |              |          |              |          |              | 250      | 0.0648231    |          |              |          |     |
| Aroclor-1262 (2) [2C] |          |              |          |              |          |              | 250      | 5.467008E-02 |          |              |          |     |





### INITIAL CALIBRATION DATA

#### EPA 8082A

Laboratory: Analytical Resources, LLC      SDG: 23A0179  
Client: Anchor QEA, LLC      Project: AOC5 MR Phase 1  
Calibration: GE00022      Instrument: ECD7  
Calibration Date: 05/05/2023      Column (2): ZB35

| Compound              | Level 07 |     | Level 08 |     | Level 09 |     | Level 10 |              | Level 11 |           | Level 12 |     |
|-----------------------|----------|-----|----------|-----|----------|-----|----------|--------------|----------|-----------|----------|-----|
|                       | Conc     | RRF | Conc     | RRF | Conc     | RRF | Conc     | RRF          | Conc     | RRF       | Conc     | RRF |
| Aroclor-1262 (3) [2C] |          |     |          |     |          |     | 250      | 5.974148E-02 |          |           |          |     |
| Aroclor-1262 (4) [2C] |          |     |          |     |          |     | 250      | 9.736639E-02 |          |           |          |     |
| Aroclor 1268 [2C]     |          |     |          |     |          |     |          |              | 250      | 0.2250713 |          |     |
| Aroclor-1268 (1) [2C] |          |     |          |     |          |     |          |              | 250      | 0.1513931 |          |     |
| Aroclor-1268 (2) [2C] |          |     |          |     |          |     |          |              | 250      | 0.1627614 |          |     |
| Aroclor-1268 (3) [2C] |          |     |          |     |          |     |          |              | 250      | 0.1393777 |          |     |
| Aroclor-1268 (4) [2C] |          |     |          |     |          |     |          |              | 250      | 0.4467531 |          |     |



**INITIAL CALIBRATION DATA**  
**EPA 8082A**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GE00022                   | Instrument: | ECD7            |
| Calibration Date: | 05/05/2023                | Column (2): | ZB35            |

| COMPOUND              | Mean RRF     | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|-----------------------|--------------|---------|------------|----------|--------------------|---|
| Aroclor 1016 [2C]     | 5.454348E-02 | 6.8     |            |          | RSD (20)           |   |
| Aroclor-1016 (1) [2C] | 4.528611E-02 | 10.9    |            |          | RSD (20)           |   |
| Aroclor-1016 (2) [2C] | 9.650798E-02 | 4.0     |            |          | RSD (20)           |   |
| Aroclor-1016 (3) [2C] | 4.256612E-02 | 7.0     |            |          | RSD (20)           |   |
| Aroclor-1016 (4) [2C] | 0.0338137    | 11.4    |            |          | RSD (20)           |   |
| Aroclor 1221 [2C]     |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1221 (1) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1221 (2) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1221 (3) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1232 [2C]     |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1232 (1) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1232 (2) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1232 (3) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1232 (4) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1242 [2C]     |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1242 (1) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1242 (2) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1242 (3) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1242 (4) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1248 [2C]     |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1248 (1) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1248 (2) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1248 (3) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1248 (4) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1254 [2C]     |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1254 (1) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1254 (2) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1254 (3) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1254 (4) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1254 (5) [2C] |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1260 [2C]     | 6.384707E-02 | 4.8     |            |          | RSD (20)           |   |



**INITIAL CALIBRATION DATA**  
**EPA 8082A**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GE00022                   | Instrument: | ECD7            |
| Calibration Date: | 05/05/2023                | Column (2): | ZB35            |

| COMPOUND                   | Mean RRF     | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|----------------------------|--------------|---------|------------|----------|--------------------|---|
| Aroclor-1260 (1) [2C]      | 4.248675E-02 | 6.4     |            |          | RSD (20)           |   |
| Aroclor-1260 (2) [2C]      | 0.1111292    | 5.2     |            |          | RSD (20)           |   |
| Aroclor-1260 (3) [2C]      | 2.753919E-02 | 1.9     |            |          | RSD (20)           |   |
| Aroclor-1260 (4) [2C]      | 7.423309E-02 | 5.0     |            |          | RSD (20)           |   |
| Aroclor 1262 [2C]          |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1262 (1) [2C]      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1262 (2) [2C]      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1262 (3) [2C]      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1262 (4) [2C]      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor 1268 [2C]          |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1268 (1) [2C]      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1268 (2) [2C]      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1268 (3) [2C]      |              | 0.0     |            |          | RSD (20)           |   |
| Aroclor-1268 (4) [2C]      |              | 0.0     |            |          | RSD (20)           |   |
| Decachlorobiphenyl [2C]    | 1.136014     | 5.9     |            |          | RSD (20)           |   |
| Tetrachlorometaxylene [2C] | 1.100547     | 4.4     |            |          | RSD (20)           |   |



## GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230505.b

|    | Inject      | Date/Time | Filename       | DF | LabID         | ClientID |
|----|-------------|-----------|----------------|----|---------------|----------|
| 1  | 05-MAY-2023 | 23:06     | 05052320ECD7.D | 1  | IB            |          |
| 2  | 05-MAY-2023 | 23:26     | 05052321ECD7.D | 1  | 0.25PPMAR1660 |          |
| 3  | 05-MAY-2023 | 23:47     | 05052322ECD7.D | 1  | 0.02PPMAR1660 |          |
| 4  | 06-MAY-2023 | 00:08     | 05052323ECD7.D | 1  | 0.05PPMAR1660 |          |
| 5  | 06-MAY-2023 | 00:29     | 05052324ECD7.D | 1  | 1.0PPMAR1660  |          |
| 6  | 06-MAY-2023 | 00:50     | 05052325ECD7.D | 1  | 0.1PPMAR1660  |          |
| 7  | 06-MAY-2023 | 01:11     | 05052326ECD7.D | 1  | 0.5PPMAR1660  |          |
| 8  | 06-MAY-2023 | 01:31     | 05052327ECD7.D | 1  | 0.25PPMAR1242 |          |
| 9  | 06-MAY-2023 | 01:52     | 05052328ECD7.D | 1  | 0.25PPMAR1248 |          |
| 10 | 06-MAY-2023 | 02:13     | 05052329ECD7.D | 1  | 0.25PPMAR1254 |          |
| 11 | 06-MAY-2023 | 02:34     | 05052330ECD7.D | 1  | 0.25PPMAR2162 |          |
| 12 | 06-MAY-2023 | 02:55     | 05052331ECD7.D | 1  | 0.25PPMAR3268 |          |
| 13 | 06-MAY-2023 | 03:16     | 05052332ECD7.D | 1  | AR1660SCV     |          |
| 14 | 06-MAY-2023 | 03:36     | 05052333ECD7.D | 1  | AR1242SCV     |          |
| 15 | 06-MAY-2023 | 03:57     | 05052334ECD7.D | 1  | AR1248SCV     |          |
| 16 | 06-MAY-2023 | 04:18     | 05052335ECD7.D | 1  | AR1254SCV     |          |
| 17 | 06-MAY-2023 | 04:39     | 05052336ECD7.D | 1  | AR2162SCV     |          |
| 18 | 06-MAY-2023 | 05:00     | 05052337ECD7.D | 1  | AR3268SCV     |          |
| 19 | 06-MAY-2023 | 05:21     | 05052338ECD7.D | 1  | DDTS          |          |
| 20 | 06-MAY-2023 | 05:41     | 05052339ECD7.D | 1  | DDT BD        |          |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230505.b

ARI Job No.:           Method: PCB.m   Instrument: ecd7.i   Date: 05-MAY-2023

| Time | Filename       | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|-------|----------|----|-------------------------------|
| 1548 | 05052301ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1609 | 05052302ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1711 | 05052303ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1732 | 05052304ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1753 | 05052305ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1814 | 05052306ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1835 | 05052307ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1856 | 05052308ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1916 | 05052309ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1937 | 05052310ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1958 | 05052311ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 2019 | 05052312ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 2040 | 05052313ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 2101 | 05052314ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 2121 | 05052315ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 2142 | 05052316ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 2203 | 05052317ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230505.b

| Time | Filename       | LabID         | ClientId | DF | Manually Integrated Compounds |
|------|----------------|---------------|----------|----|-------------------------------|
| 2224 | 05052318ECD7.D |               |          | 1  | NO MANUAL INTEGRATION         |
| 2245 | 05052319ECD7.D |               |          | 1  | NO MANUAL INTEGRATION         |
| 2306 | 05052320ECD7.D | IB            |          | 1  | NO MANUAL INTEGRATION         |
| 2326 | 05052321ECD7.D | 0.25PPMAR1660 |          | 1  | NO MANUAL INTEGRATION         |
| 2347 | 05052322ECD7.D | 0.02PPMAR1660 |          | 1  | NO MANUAL INTEGRATION         |
| 0008 | 05052323ECD7.D | 0.05PPMAR1660 |          | 1  | NO MANUAL INTEGRATION         |
| 0029 | 05052324ECD7.D | 1.0PPMAR1660  |          | 1  | NO MANUAL INTEGRATION         |
| 0050 | 05052325ECD7.D | 0.1PPMAR1660  |          | 1  | NO MANUAL INTEGRATION         |
| 0111 | 05052326ECD7.D | 0.5PPMAR1660  |          | 1  | NO MANUAL INTEGRATION         |
| 0131 | 05052327ECD7.D | 0.25PPMAR1242 |          | 1  | NO MANUAL INTEGRATION         |
| 0152 | 05052328ECD7.D | 0.25PPMAR1248 |          | 1  | NO MANUAL INTEGRATION         |
| 0213 | 05052329ECD7.D | 0.25PPMAR1254 |          | 1  | NO MANUAL INTEGRATION         |
| 0234 | 05052330ECD7.D | 0.25PPMAR2162 |          | 1  | NO MANUAL INTEGRATION         |
| 0255 | 05052331ECD7.D | 0.25PPMAR3268 |          | 1  | NO MANUAL INTEGRATION         |
| 0316 | 05052332ECD7.D | AR1660SCV     |          | 1  | NO MANUAL INTEGRATION         |
| 0336 | 05052333ECD7.D | AR1242SCV     |          | 1  | NO MANUAL INTEGRATION         |
| 0357 | 05052334ECD7.D | AR1248SCV     |          | 1  | NO MANUAL INTEGRATION         |
| 0418 | 05052335ECD7.D | AR1254SCV     |          | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230505.b

| Time | Filename       | LabID     | ClientId | DF | Manually Integrated Compounds |
|------|----------------|-----------|----------|----|-------------------------------|
| 0439 | 05052336ECD7.D | AR2162SCV |          | 1  | NO MANUAL INTEGRATION         |
| 0500 | 05052337ECD7.D | AR3268SCV |          | 1  | NO MANUAL INTEGRATION         |
| 0521 | 05052338ECD7.D | DDTS      |          | 1  | NO MANUAL INTEGRATION         |
| 0541 | 05052339ECD7.D | DDT BD    |          | 1  | NO MANUAL INTEGRATION         |
| 1548 | 05052301ECD7.D | RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 1609 | 05052302ECD7.D | RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 1711 | 05052303ECD7.D | HEX RINSE |          | 1  | NO MANUAL INTEGRATION         |
| 1732 | 05052304ECD7.D | HEX RINSE |          | 1  | NO MANUAL INTEGRATION         |
| 1753 | 05052305ECD7.D | HEX RINSE |          | 1  | NO MANUAL INTEGRATION         |
| 1814 | 05052306ECD7.D | HEX RINSE |          | 1  | NO MANUAL INTEGRATION         |
| 1835 | 05052307ECD7.D | HEX RINSE |          | 1  | NO MANUAL INTEGRATION         |
| 1856 | 05052308ECD7.D | HEX RINSE |          | 1  | NO MANUAL INTEGRATION         |
| 1916 | 05052309ECD7.D | RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 1937 | 05052310ECD7.D | RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 1958 | 05052311ECD7.D | RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2019 | 05052312ECD7.D | RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2040 | 05052313ECD7.D | RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2101 | 05052314ECD7.D | HEX RINSE |          | 1  | NO MANUAL INTEGRATION         |



MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230505.b\230505.b

| Time | Filename       | LabID         | ClientId | DF | Manually Integrated Compounds |
|------|----------------|---------------|----------|----|-------------------------------|
| 2121 | 05052315ECD7.D | HEX RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2142 | 05052316ECD7.D | HEX RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2203 | 05052317ECD7.D | HEX RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2224 | 05052318ECD7.D | HEX RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2245 | 05052319ECD7.D | HEX RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2306 | 05052320ECD7.D | IB            |          | 1  | NO MANUAL INTEGRATION         |
| 2326 | 05052321ECD7.D | 0.25PPMAR1660 |          | 1  | NO MANUAL INTEGRATION         |
| 2347 | 05052322ECD7.D | 0.02PPMAR1660 |          | 1  | Aroclor-1016 [2C],            |
| 0008 | 05052323ECD7.D | 0.05PPMAR1660 |          | 1  | Aroclor-1016 [2C],            |
| 0029 | 05052324ECD7.D | 1.0PPMAR1660  |          | 1  | NO MANUAL INTEGRATION         |
| 0050 | 05052325ECD7.D | 0.1PPMAR1660  |          | 1  | Aroclor-1016 [2C],            |
| 0111 | 05052326ECD7.D | 0.5PPMAR1660  |          | 1  | NO MANUAL INTEGRATION         |
| 0132 | 05052327ECD7.D | 0.25PPMAR1242 |          | 1  | Aroclor-1242 [2C],            |
| 0152 | 05052328ECD7.D | 0.25PPMAR1248 |          | 1  | NO MANUAL INTEGRATION         |
| 0213 | 05052329ECD7.D | 0.25PPMAR1254 |          | 1  | NO MANUAL INTEGRATION         |
| 0234 | 05052330ECD7.D | 0.25PPMAR2162 |          | 1  | NO MANUAL INTEGRATION         |
| 0255 | 05052331ECD7.D | 0.25PPMAR3268 |          | 1  | NO MANUAL INTEGRATION         |
| 0316 | 05052332ECD7.D | AR1660SCV     |          | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230505.b\230505.b

| Time | Filename       | LabID     | ClientId | DF | Manually Integrated Compounds |
|------|----------------|-----------|----------|----|-------------------------------|
| 0336 | 05052333ECD7.D | AR1242SCV |          | 1  | Aroclor-1242 [2C],            |
| 0357 | 05052334ECD7.D | AR1248SCV |          | 1  | NO MANUAL INTEGRATION         |
| 0418 | 05052335ECD7.D | AR1254SCV |          | 1  | NO MANUAL INTEGRATION         |
| 0439 | 05052336ECD7.D | AR2162SCV |          | 1  | NO MANUAL INTEGRATION         |
| 0500 | 05052337ECD7.D | AR3268SCV |          | 1  | NO MANUAL INTEGRATION         |
| 0521 | 05052338ECD7.D | DDTS      |          | 1  | NO MANUAL INTEGRATION         |
| 0541 | 05052339ECD7.D | DDT BD    |          | 1  | NO MANUAL INTEGRATION         |

Security Status Report

Date: 06-May-2023 09:12

|                |             |                             |
|----------------|-------------|-----------------------------|
| 05052320ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052321ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052322ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052323ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052324ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052325ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052326ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052327ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052328ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052329ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052330ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052331ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052332ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052333ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052334ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052335ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052336ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052337ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052338ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052339ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2023 23:26  
 End Cal Date : 06-MAY-2023 05:21  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230505.b\PCB.m  
 Last Edit : 06-May-2023 09:04 ecd7.i  
 Curve Type : Average

Calibration File Names:

Level 1: \\target\share\chem4\ecd7.i\230505.b\05052322ECD7.D  
 Level 2: \\target\share\chem4\ecd7.i\230505.b\05052323ECD7.D  
 Level 3: \\target\share\chem4\ecd7.i\230505.b\05052325ECD7.D  
 Level 4: \\target\share\chem4\ecd7.i\230505.b\05052321ECD7.D  
 Level 5: \\target\share\chem4\ecd7.i\230505.b\05052326ECD7.D  
 Level 6: \\target\share\chem4\ecd7.i\230505.b\05052324ECD7.D  
 Level 7: \\target\share\chem4\ecd7.i\230505.b\05052331ECD7.D  
 Level 8: \\target\share\chem4\ecd7.i\230505.b\05052338ECD7.D

| Compound          | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| 2 Aroclor-1221(1) | 0.00563           | 0.000e+00         |                    |                    |                    |                     | 0.00563 | 0.000 |
| (2)               | 0.01129           |                   |                    |                    |                    |                     | 0.01129 | 0.000 |
| (3)               | 0.02681           |                   |                    |                    |                    |                     | 0.02681 | 0.000 |
| 3 Aroclor-1242(1) | 0.02521           |                   |                    |                    |                    |                     | 0.02521 | 0.000 |
| (2)               | 0.07988           |                   |                    |                    |                    |                     | 0.07988 | 0.000 |
| (3)               | 0.01545           |                   |                    |                    |                    |                     | 0.01545 | 0.000 |
| (4)               | 0.03576           |                   |                    |                    |                    |                     | 0.03576 | 0.000 |
| 4 Aroclor-1232(1) | 0.00375           |                   |                    |                    |                    |                     | 0.00375 | 0.000 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2023 23:26  
 End Cal Date : 06-MAY-2023 05:21  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230505.b\PCB.m  
 Last Edit : 06-May-2023 09:04 ecd7.i  
 Curve Type : Average

| Compound          | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD  |
|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|--------|
| (2)               | 0.00780           | 0.000e+00         |                    |                    |                    |                     | 0.00780 | 0.000  |
| (3)               | 0.03715           |                   |                    |                    |                    |                     | 0.03715 | 0.000  |
| (4)               | 0.01590           |                   |                    |                    |                    |                     | 0.01590 | 0.000  |
| 7 Aroclor-1016(1) | 0.03259           | 0.03226           | 0.03462            | 0.03138            | 0.02909            | 0.02592             | 0.03098 | 9.876  |
| (2)               | 0.08782           | 0.09418           | 0.10520            | 0.10209            | 0.09934            | 0.09254             | 0.09686 | 6.702  |
| (3)               | 0.04375           | 0.04849           | 0.05094            | 0.04519            | 0.04205            | 0.03826             | 0.04478 | 10.130 |
| (4)               | 0.01716           | 0.01921           | 0.02127            | 0.01901            | 0.01783            | 0.01637             | 0.01847 | 9.437  |
| 6 Aroclor-1248(1) | 0.02042           |                   |                    |                    |                    |                     | 0.02042 | 0.000  |
| (2)               | 0.05306           |                   |                    |                    |                    |                     | 0.05306 | 0.000  |
| (3)               | 0.10205           |                   |                    |                    |                    |                     | 0.10205 | 0.000  |
| (4)               | 0.05202           |                   |                    |                    |                    |                     | 0.05202 | 0.000  |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2023 23:26  
 End Cal Date : 06-MAY-2023 05:21  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230505.b\PCB.m  
 Last Edit : 06-May-2023 09:04 ecd7.i  
 Curve Type : Average

| Compound            | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|---------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| 8 Aroclor-1254 (1)  | 0.08222           | 0.000e+00         |                    |                    |                    |                     | 0.08222 | 0.000 |
| (2)                 | 0.03694           |                   |                    |                    |                    |                     | 0.03694 | 0.000 |
| (3)                 | 0.05308           |                   |                    |                    |                    |                     | 0.05308 | 0.000 |
| (4)                 | 0.10397           |                   |                    |                    |                    |                     | 0.10397 | 0.000 |
| (5)                 | 0.06279           |                   |                    |                    |                    |                     | 0.06279 | 0.000 |
| 9 Aroclor-1260 (1)  | 0.04580           | 0.04187           | 0.04489            | 0.04230            | 0.04061            | 0.03834             | 0.04230 | 6.490 |
| (2)                 | 0.04434           | 0.04115           | 0.04438            | 0.04189            | 0.04043            | 0.03831             | 0.04175 | 5.623 |
| (3)                 | 0.11170           | 0.10434           | 0.11116            | 0.10510            | 0.10043            | 0.09464             | 0.10456 | 6.204 |
| (4)                 | 0.05460           | 0.05000           | 0.05382            | 0.05169            | 0.04996            | 0.04720             | 0.05121 | 5.355 |
| (5)                 | 0.02498           | 0.02246           | 0.02370            | 0.02202            | 0.02100            | 0.01982             | 0.02233 | 8.279 |
| 10 Aroclor-1262 (1) | 0.03619           |                   |                    |                    |                    |                     | 0.03619 | 0.000 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2023 23:26  
 End Cal Date : 06-MAY-2023 05:21  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230505.b\PCB.m  
 Last Edit : 06-May-2023 09:04 ecd7.i  
 Curve Type : Average

| Compound           | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|--------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| (2)                | ++++<br>0.05090   | ++++<br>++++      | ++++<br>++++       | ++++<br>++++       | ++++<br>++++       | ++++<br>++++        | 0.05090 | 0.000 |
| (3)                | ++++<br>0.05471   | ++++<br>++++      | ++++<br>++++       | ++++<br>++++       | ++++<br>++++       | ++++<br>++++        | 0.05471 | 0.000 |
| (4)                | ++++<br>0.04459   | ++++<br>++++      | ++++<br>++++       | ++++<br>++++       | ++++<br>++++       | ++++<br>++++        | 0.04459 | 0.000 |
| 11 Aroclor-1268(1) | ++++<br>0.12759   | ++++<br>++++      | ++++<br>++++       | ++++<br>++++       | ++++<br>++++       | ++++<br>++++        | 0.12759 | 0.000 |
| (2)                | ++++<br>0.12671   | ++++<br>++++      | ++++<br>++++       | ++++<br>++++       | ++++<br>++++       | ++++<br>++++        | 0.12671 | 0.000 |
| (3)                | ++++<br>0.10191   | ++++<br>++++      | ++++<br>++++       | ++++<br>++++       | ++++<br>++++       | ++++<br>++++        | 0.10191 | 0.000 |
| (4)                | ++++<br>0.29098   | ++++<br>++++      | ++++<br>++++       | ++++<br>++++       | ++++<br>++++       | ++++<br>++++        | 0.29098 | 0.000 |
| 42 2,4-DDE         | ++++<br>++++      | ++++<br>636       | ++++<br>++++       | ++++<br>++++       | ++++<br>++++       | ++++<br>++++        | 636     | 0.000 |
| 43 2,4-DDD         | ++++<br>++++      | ++++<br>1208      | ++++<br>++++       | ++++<br>++++       | ++++<br>++++       | ++++<br>++++        | 1208    | 0.000 |
| 44 2,4-DDT         | ++++<br>++++      | ++++<br>++++      | ++++<br>++++       | ++++<br>++++       | ++++<br>++++       | ++++<br>++++        | ++++    | ++++  |
| 46 4,4-DDE         | ++++<br>++++      | ++++<br>1492      | ++++<br>++++       | ++++<br>++++       | ++++<br>++++       | ++++<br>++++        | 1492    | 0.000 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2023 23:26  
 End Cal Date : 06-MAY-2023 05:21  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230505.b\PCB.m  
 Last Edit : 06-May-2023 09:04 ecd7.i  
 Curve Type : Average

| Compound               | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| 47 4,4-DDD             | +++++             | +++++<br>708      | +++++              | +++++              | +++++              | +++++               | 708     | 0.000 |
| 48 4,4-DDT             | +++++             | +++++<br>630      | +++++              | +++++              | +++++              | +++++               | 630     | 0.000 |
| 49 Hexachlorobutadiene | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | +++++   | +++++ |
| 50 Hexachlorobenzene   | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | +++++   | +++++ |
| 1 Tetrachloro-m-xylene | 1.21049           | 1.18252           | 1.29993            | 1.22669            | 1.16878            | 1.14053             | 1.20482 | 4.619 |
| 13 Decachlorobiphenyl  | 0.89752           | 0.83715           | 0.84851            | 0.77945            | 0.72713            | 0.70508             | 0.79914 | 9.361 |



ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2023 23:26  
 End Cal Date : 06-MAY-2023 02:55  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230505.b\PCB.m\PCB2.m  
 Last Edit : 06-May-2023 11:14 ecd7.i  
 Curve Type : Average

Calibration File Names:

Level 1: \\target\share\chem4\ecd7.i\230505.b\230505.b\05052322ECD7.D  
 Level 2: \\target\share\chem4\ecd7.i\230505.b\230505.b\05052323ECD7.D  
 Level 3: \\target\share\chem4\ecd7.i\230505.b\230505.b\05052325ECD7.D  
 Level 4: \\target\share\chem4\ecd7.i\230505.b\230505.b\05052321ECD7.D  
 Level 5: \\target\share\chem4\ecd7.i\230505.b\230505.b\05052326ECD7.D  
 Level 6: \\target\share\chem4\ecd7.i\230505.b\230505.b\05052324ECD7.D  
 Level 7: \\target\share\chem4\ecd7.i\230505.b\230505.b\05052331ECD7.D

| Compound                | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|-------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| 1 Aroclor-1221 [2C] (1) | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.00590 | 0.000 |
| (2)                     | 0.00590           |                   |                    |                    |                    |                     | 0.00590 | 0.000 |
| (3)                     | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.01223 | 0.000 |
|                         | 0.01223           |                   |                    |                    |                    |                     | 0.01223 | 0.000 |
| (3)                     | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.01924 | 0.000 |
|                         | 0.01924           |                   |                    |                    |                    |                     | 0.01924 | 0.000 |
| 4 Aroclor-1232 [2C] (1) | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.00310 | 0.000 |
| (2)                     | 0.00310           |                   |                    |                    |                    |                     | 0.00310 | 0.000 |
| (3)                     | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.01776 | 0.000 |
|                         | 0.01776           |                   |                    |                    |                    |                     | 0.01776 | 0.000 |
| (4)                     | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.03568 | 0.000 |
|                         | 0.03568           |                   |                    |                    |                    |                     | 0.03568 | 0.000 |
| (4)                     | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.01033 | 0.000 |
|                         | 0.01033           |                   |                    |                    |                    |                     | 0.01033 | 0.000 |
| 3 Aroclor-1242 [2C] (1) | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.03575 | 0.000 |
|                         | 0.03575           |                   |                    |                    |                    |                     | 0.03575 | 0.000 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2023 23:26  
 End Cal Date : 06-MAY-2023 02:55  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230505.b\PCB.m\PCB2.m  
 Last Edit : 06-May-2023 11:14 ecd7.i  
 Curve Type : Average

| Compound                | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD  |
|-------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|--------|
| (2)                     | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.07606 | 0.000  |
| (3)                     | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.02438 | 0.000  |
| (4)                     | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.02939 | 0.000  |
| 6 Aroclor-1248 [2C] (1) | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.03806 | 0.000  |
| (2)                     | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.04020 | 0.000  |
| (3)                     | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.04712 | 0.000  |
| (4)                     | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.05651 | 0.000  |
| 7 Aroclor-1016 [2C] (1) | 0.05158           | 0.04743           | 0.04866            | 0.04443            | 0.04159            | 0.03802             | 0.04529 | 10.942 |
| (2)                     | 0.09850           | 0.09560           | 0.10183            | 0.09745            | 0.09528            | 0.09038             | 0.09651 | 3.959  |
| (3)                     | 0.04379           | 0.04462           | 0.04622            | 0.04230            | 0.04046            | 0.03801             | 0.04257 | 6.991  |
| (4)                     | 0.03635           | 0.03727           | 0.03735            | 0.03308            | 0.03084            | 0.02798             | 0.03381 | 11.400 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2023 23:26  
 End Cal Date : 06-MAY-2023 02:55  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230505.b\PCB.m\PCB2.m  
 Last Edit : 06-May-2023 11:14 ecd7.i  
 Curve Type : Average

| Compound                 | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|--------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| 8 Aroclor-1254 [2C] (1)  | ++++<br>0.06078   | ++++              | ++++               | ++++               | ++++               | ++++                | 0.06078 | 0.000 |
| (2)                      | ++++<br>0.03611   | ++++              | ++++               | ++++               | ++++               | ++++                | 0.03611 | 0.000 |
| (3)                      | ++++<br>0.04927   | ++++              | ++++               | ++++               | ++++               | ++++                | 0.04927 | 0.000 |
| (4)                      | ++++<br>0.10751   | ++++              | ++++               | ++++               | ++++               | ++++                | 0.10751 | 0.000 |
| (5)                      | ++++<br>0.10667   | ++++              | ++++               | ++++               | ++++               | ++++                | 0.10667 | 0.000 |
| 10 Aroclor-1262 [2C] (1) | ++++<br>0.06482   | ++++              | ++++               | ++++               | ++++               | ++++                | 0.06482 | 0.000 |
| (2)                      | ++++<br>0.05467   | ++++              | ++++               | ++++               | ++++               | ++++                | 0.05467 | 0.000 |
| (3)                      | ++++<br>0.05974   | ++++              | ++++               | ++++               | ++++               | ++++                | 0.05974 | 0.000 |
| (4)                      | ++++<br>0.09737   | ++++              | ++++               | ++++               | ++++               | ++++                | 0.09737 | 0.000 |
| 9 Aroclor-1260 [2C] (1)  | 0.04544<br>++++   | 0.04273           | 0.04504            | 0.04279            | 0.04076            | 0.03816             | 0.04249 | 6.408 |
| (2)                      | 0.11282<br>++++   | 0.11085           | 0.11919            | 0.11378            | 0.10815            | 0.10199             | 0.11113 | 5.208 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2023 23:26  
 End Cal Date : 06-MAY-2023 02:55  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230505.b\PCB.m\PCB2.m  
 Last Edit : 06-May-2023 11:14 ecd7.i  
 Curve Type : Average

| Compound                 | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|--------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| (3)                      | 0.02783<br>+++++  | 0.02652           | 0.02791            | 0.02780            | 0.02775            | 0.02743             | 0.02754 | 1.918 |
| (4)                      | 0.07670<br>+++++  | 0.07341           | 0.07861            | 0.07586            | 0.07265            | 0.06817             | 0.07423 | 4.962 |
| 11 Aroclor-1268 [2C] (1) | +++++<br>0.15139  | +++++             | +++++              | +++++              | +++++              | +++++               | 0.15139 | 0.000 |
| (2)                      | +++++<br>0.16276  | +++++             | +++++              | +++++              | +++++              | +++++               | 0.16276 | 0.000 |
| (3)                      | +++++<br>0.13938  | +++++             | +++++              | +++++              | +++++              | +++++               | 0.13938 | 0.000 |
| (4)                      | +++++<br>0.44675  | +++++             | +++++              | +++++              | +++++              | +++++               | 0.44675 | 0.000 |
| 41 2,4-DDE [2C]          | +++++<br>+++++    | +++++             | +++++              | +++++              | +++++              | +++++               | +++++   | +++++ |
| 42 2,4-DDD [2C]          | +++++<br>+++++    | +++++             | +++++              | +++++              | +++++              | +++++               | +++++   | +++++ |
| 44 4,4-DDE [2C]          | +++++<br>+++++    | +++++             | +++++              | +++++              | +++++              | +++++               | +++++   | +++++ |
| 45 4,4-DDD/2,4-DDT [2C]  | +++++<br>+++++    | +++++             | +++++              | +++++              | +++++              | +++++               | +++++   | +++++ |
| 46 4,4-DDT [2C]          | +++++<br>+++++    | +++++             | +++++              | +++++              | +++++              | +++++               | +++++   | +++++ |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2023 23:26  
 End Cal Date : 06-MAY-2023 02:55  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230505.b\PCB.m\PCB2.m  
 Last Edit : 06-May-2023 11:14 ecd7.i  
 Curve Type : Average

| Compound                       | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|--------------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| 48 Hexachlorobutadiene         | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | +++++   | +++++ |
| 49 Hexachlorobenzene           | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | +++++   | +++++ |
| \$ 2 Tetrachloro-m-xylene [2C] | 1.09077           | 1.07641           | 1.18129            | 1.13054            | 1.07870            | 1.04559             | 1.10055 | 4.376 |
| \$ 13 Decachlorobiphenyl [2C]  | 1.04434           | 1.07403           | 1.22005            | 1.18343            | 1.16419            | 1.13004             | 1.13601 | 5.890 |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230505.b\PCB.m
Batch File: \\target\share\chem4\ecd7.i\230505.b
Inst ID: ecd7.i

ID: RT01 RT02 RT03 RT04 RT05 RT06
FILENAME: 05052321ECD7 05052322ECD7 05052323ECD7 05052324ECD7 05052325ECD7 05052326ECD7
INJ. DATE: 05-MAY-2023 05-MAY-2023 06-MAY-2023 06-MAY-2023 06-MAY-2023 06-MAY-2023
INJ. TIME: 23:26 23:47 00:08 00:29 00:50 01:11

Table with 11 columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows include various chemical compounds like IS-BNB, Tetrachloro-m-xylene, Aroclor-1221, etc.

Reviewer 1 \_\_\_\_\_ Date: \_\_\_\_\_
Reviewer 2 \_\_\_\_\_ Date: \_\_\_\_\_

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
 Batch File: \\target\share\chem4\ecd7.i\230505.b  
 Inst ID: ecd7.i

| Compound               | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|------------------------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 47 4,4-DDD             | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.243   | 10.143-10.343 | +++++  | +++++   |
| 48 4,4-DDT             | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.706   | 10.606-10.806 | +++++  | +++++   |
| 49 Hexachlorobutadiene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.842    | 1.742-1.942   | +++++  | +++++   |
| 50 Hexachlorobenzene   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.708    | 6.608-6.808   | +++++  | +++++   |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230505.b\PCB.m\PCB2.m
Batch File: \\target\share\chem4\ecd7.i\230505.b\230505.b
Inst ID: ecd7.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07
FILENAME: 05052320ECD7 05052321ECD7 05052322ECD7 05052323ECD7 05052324ECD7 05052325ECD7 05052326ECD7
INJ. DATE: 05-MAY-2023 05-MAY-2023 05-MAY-2023 06-MAY-2023 06-MAY-2023 06-MAY-2023 06-MAY-2023
INJ. TIME: 23:06 23:26 23:47 00:08 00:29 00:50 01:11

Table with columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows include various chemical compounds like 40 IS-BNB, 2 Tetrachloro-m-xylene, etc.

Reviewer 1 \_\_\_\_\_ Date: \_\_\_\_\_
Reviewer 2 \_\_\_\_\_ Date: \_\_\_\_\_



ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230505.b\PCB.m\PCB2.m  
 Batch File: \\target\share\chem4\ecd7.i\230505.b\230505.b  
 Inst ID: ecd7.i

| Compound               | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | RT07  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 46 4,4-DDT [2C]        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.046   | 10.946-11.146 | +++++  | +++++   |
| 48 Hexachlorobutadiene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.703    | 1.603-1.803   | +++++  | +++++   |
| 49 Hexachlorobenzene   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.178    | 7.078-7.278   | +++++  | +++++   |

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052320ECD7.D  
 Data file 2: /230505.b/230505.b/05052320ECD7.D  
 Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
 Compound Sublist: PCB.sub  
 Instrument, Inj. Vol.: ecd7.i, 2ul  
 Quant Method: Internal Std

ARI ID: IB  
 Client ID:  
 Injection Date: 05-MAY-2023 23:06  
 Report Date: 05/06/2023 11:30  
 Matrix: NONE  
 Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.742  | 0.000         | 296285   | 5.629  | 0.001          | 163258   | 35.5       | 37.4        | 5.3 | Tetrachloro-m-xylene |
| 13.841 | 0.001         | 288612   | 14.070 | 0.002          | 318424   | 35.7       | 37.3        | 4.5 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

| Standard Cpnd      | Standard Area* | Sample Area | %D   |
|--------------------|----------------|-------------|------|
| Bromo-Nitrobenzene | 601474         | 554412      | -7.8 |
| Hexabromobiphenyl  | 876625         | 809662      | -7.6 |

Column 2

| Standard Cpnd      | Standard Area* | Sample Area | %D   |
|--------------------|----------------|-------------|------|
| Bromo-Nitrobenzene | 349289         | 317324      | -9.2 |
| Hexabromobiphenyl  | 652984         | 600612      | -8.0 |

\* Standard Areas taken from Initial Cal Level 3  
 Initial Calibration Date: 05-MAY-2023  
 <- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                                 |       |        |        |      | ZB35 Col |                            |        |        |      |        |
|---|-------|--------|--------|------|----------|----------------------------|--------|--------|------|--------|
| Aroclor                                 | Peak# | RT     | Shift  | Area | Amount   | Peak#                      | RT     | Shift  | Area | Amount |
| Aroclor-1016                            | 1     | ---    |        |      | 0.0      | 1                          | ---    |        |      | 0.0    |
| Aroclor-1016                            | 2     | ---    |        |      | 0.0      | 2                          | ---    |        |      | 0.0    |
| Aroclor-1016                            | 3     | ---    |        |      | 0.0      | 3                          | ---    |        |      | 0.0    |
| Aroclor-1016                            | 4     | ---    |        |      | 0.0      | 4                          | ---    |        |      | 0.0    |
| CollAve: <3 Quant Peaks                 |       |        |        |      |          | Col2Ave: <3 Quant Peaks    |        |        |      |        |
| Aroclor-1221                            | 1     | ---    |        |      | 0.0      | 1                          | ---    |        |      | 0.0    |
| Aroclor-1221                            | 2     | ---    |        |      | 0.0      | 2                          | 6.272  | 0.027  | 1585 | 32.7   |
| Aroclor-1221                            | 3     | ---    |        |      | 0.0      | 3                          | 6.588  | 0.017  | 408  | 5.3    |
| CollAve: <3 Quant Peaks                 |       |        |        |      |          | Col2Ave: <3 Quant Peaks    |        |        |      |        |
| Aroclor-1232                            | 1     | ---    |        |      | 0.0      | 1                          | ---    |        |      | 0.0    |
| Aroclor-1232                            | 2     | ---    |        |      | 0.0      | 2                          | ---    |        |      | 0.0    |
| Aroclor-1232                            | 3     | ---    |        |      | 0.0      | 3                          | ---    |        |      | 0.0    |
| Aroclor-1232                            | 4     | ---    |        |      | 0.0      | 4                          | ---    |        |      | 0.0    |
| CollAve: <3 Quant Peaks                 |       |        |        |      |          | Col2Ave: <3 Quant Peaks    |        |        |      |        |
| Aroclor-1242                            | 1     | ---    |        |      | 0.0      | 1                          | ---    |        |      | 0.0    |
| Aroclor-1242                            | 2     | ---    |        |      | 0.0      | 2                          | ---    |        |      | 0.0    |
| Aroclor-1242                            | 3     | ---    |        |      | 0.0      | 3                          | ---    |        |      | 0.0    |
| Aroclor-1242                            | 4     | ---    |        |      | 0.0      | 4                          | ---    |        |      | 0.0    |
| CollAve: <3 Quant Peaks                 |       |        |        |      |          | Col2Ave: <3 Quant Peaks    |        |        |      |        |
| Aroclor-1248                            | 1     | ---    |        |      | 0.0      | 1                          | ---    |        |      | 0.0    |
| Aroclor-1248                            | 2     | ---    |        |      | 0.0      | 2                          | ---    |        |      | 0.0    |
| Aroclor-1248                            | 3     | ---    |        |      | 0.0      | 3                          | ---    |        |      | 0.0    |
| Aroclor-1248                            | 4     | ---    |        |      | 0.0      | 4                          | ---    |        |      | 0.0    |
| CollAve: <3 Quant Peaks                 |       |        |        |      |          | Col2Ave: <3 Quant Peaks    |        |        |      |        |
| Aroclor-1254                            | 1     | ---    |        |      | 0.0      | 1                          | ---    |        |      | 0.0    |
| Aroclor-1254                            | 2     | ---    |        |      | 0.0      | 2                          | ---    |        |      | 0.0    |
| Aroclor-1254                            | 3     | ---    |        |      | 0.0      | 3                          | ---    |        |      | 0.0    |
| Aroclor-1254                            | 4     | ---    |        |      | 0.0      | 4                          | ---    |        |      | 0.0    |
| Aroclor-1254                            | 5     | ---    |        |      | 0.0      | 5                          | ---    |        |      | 0.0    |
| CollAve: <3 Quant Peaks                 |       |        |        |      |          | Col2Ave: <3 Quant Peaks    |        |        |      |        |
| Aroclor-1260                            | 1     | 10.995 | 0.002  | 1624 | 3.8      | 1                          | ---    |        |      | 0.0    |
| Aroclor-1260                            | 2     | 11.305 | -0.005 | 1450 | 3.4      | 2                          | ---    |        |      | 0.0    |
| Aroclor-1260                            | 3     | 11.770 | 0.084  | 3781 | 3.6      | 3                          | ---    |        |      | 0.0    |
| Aroclor-1260                            | 4     | 12.138 | 0.048  | 1272 | 2.5      | 4                          | ---    |        |      | 0.0    |
| Aroclor-1260                            | 5     | 12.271 | 0.078  | 413  | 1.8      | NS                         | ---    |        |      | ----   |
| Total CollAve (5 peaks):                |       |        |        |      | 3.0      | Col2Ave: <3 Quant Peaks    |        |        |      |        |
| Aroclor-1262                            | 1     | 10.800 | 0.021  | 2445 | 6.7      | 1                          | ---    |        |      | 0.0    |
| Aroclor-1262                            | 2     | 12.271 | 0.077  | 413  | 0.8      | 2                          | ---    |        |      | 0.0    |
| Aroclor-1262                            | 3     | ---    |        |      | 0.0      | 3                          | ---    |        |      | 0.0    |
| Aroclor-1262                            | 4     | 12.989 | 0.050  | 944  | 2.1      | 4                          | ---    |        |      | 0.0    |
| Total CollAve (3 peaks):                |       |        |        |      | 3.2      | Col2Ave: <3 Quant Peaks    |        |        |      |        |
| Aroclor-1268                            | 1     | 12.271 | 0.076  | 413  | 0.3      | 1                          | ---    |        |      | 0.0    |
| Aroclor-1268                            | 2     | ---    |        |      | 0.0      | 2                          | ---    |        |      | 0.0    |
| Aroclor-1268                            | 3     | 12.649 | 0.001  | 2092 | 2.0      | 3                          | 12.847 | 0.004  | 632  | 0.6    |
| Aroclor-1268                            | 4     | 13.443 | 0.006  | 5651 | 1.9      | 4                          | 13.663 | -0.001 | 2018 | 0.6    |
| Total CollAve (3 peaks):                |       |        |        |      | 1.4      | Col2Ave: <3 Quant Peaks    |        |        |      |        |
| Total PCB Area Coll1 (5.842 - 13.740) = |       |        |        |      | 65805    | Coll1 Total PCB = 0.0 ppm* |        |        |      |        |

Total PCB Area Col2 (5.728 - 13.968) = 16664 Col2 Total PCB = 0.0 ppm\*

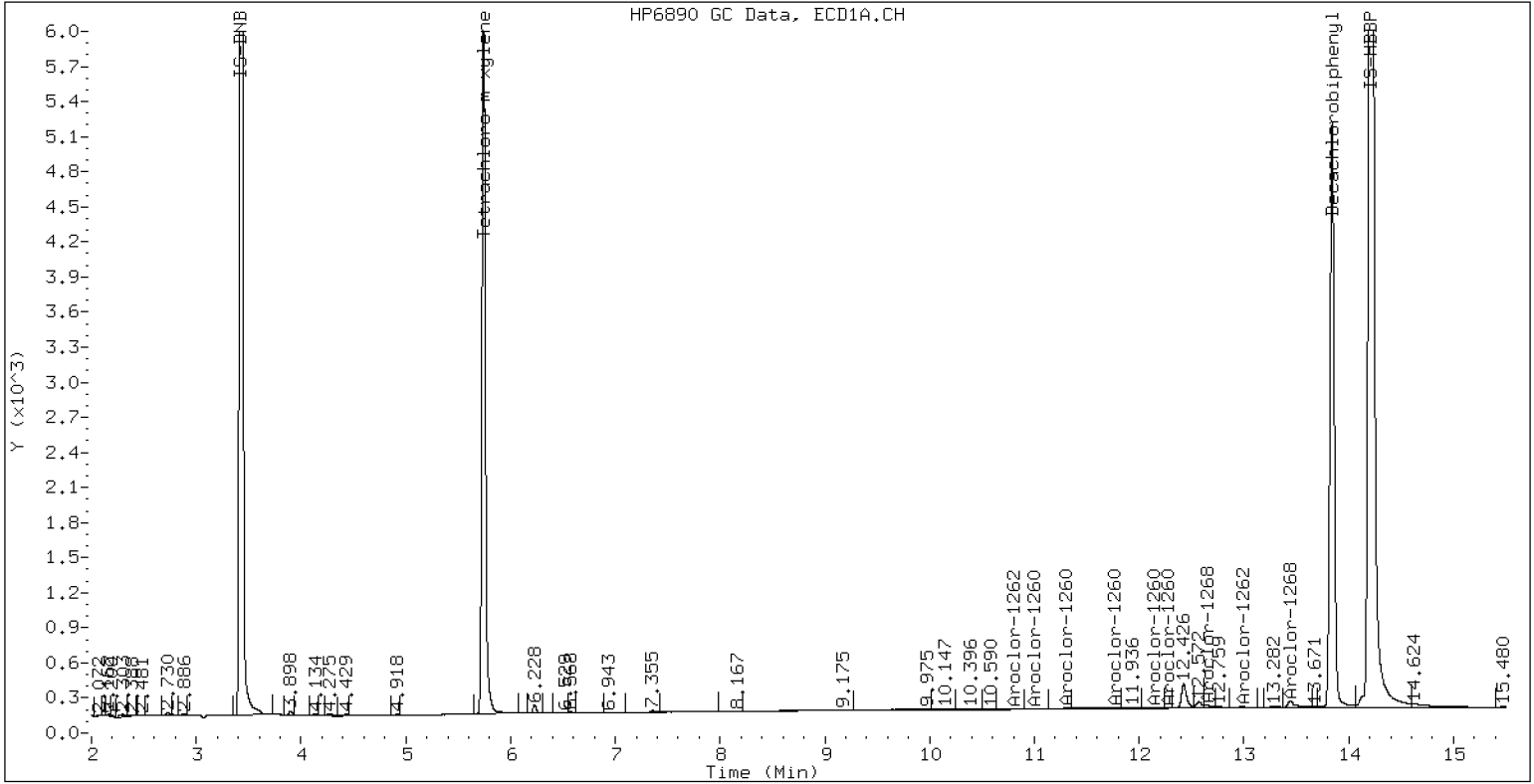
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 IB

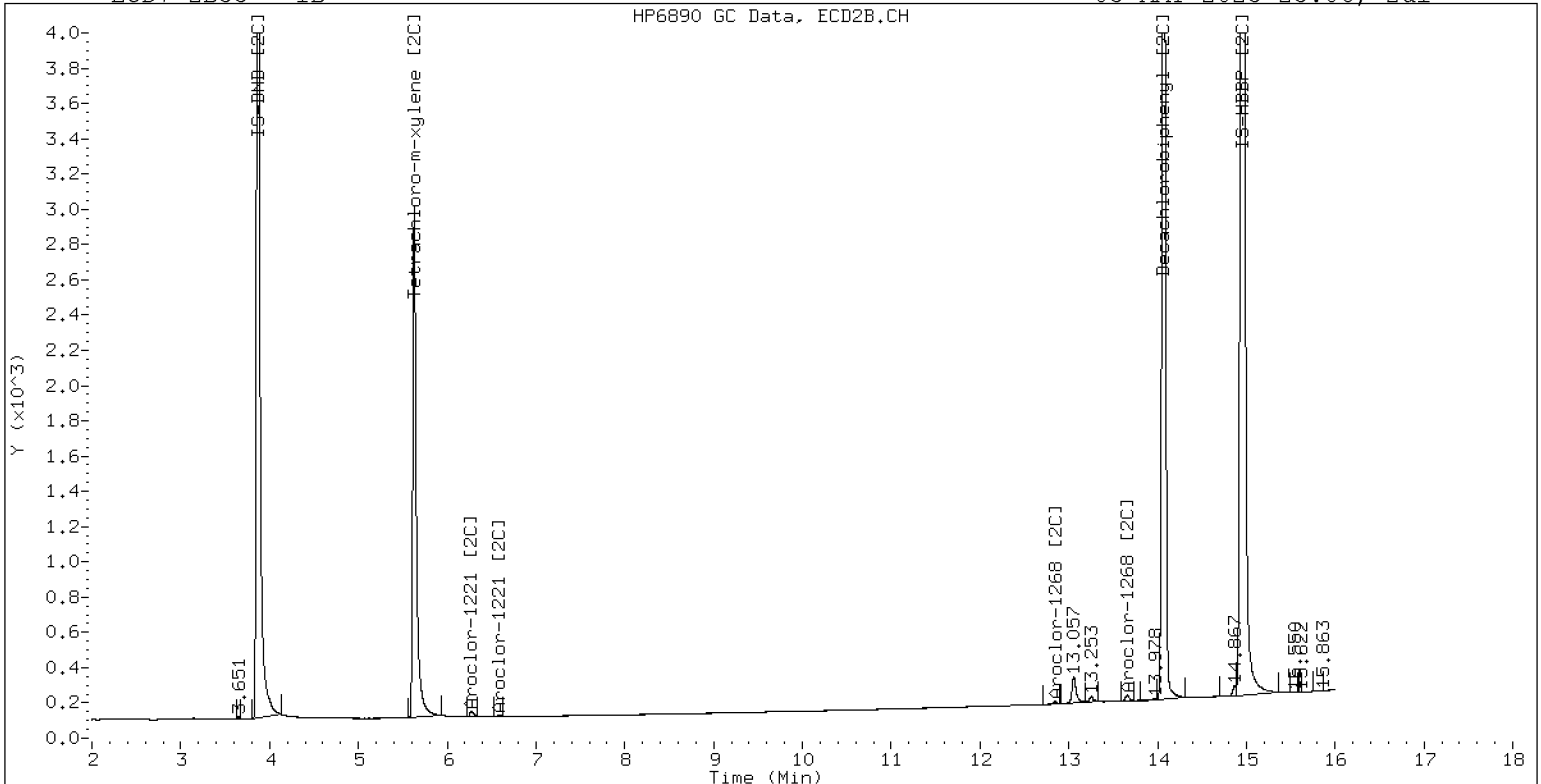
05-MAY-2023 23:06, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 IB

05-MAY-2023 23:06, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052321ECD7.D  
 Data file 2: /230505.b/230505.b/05052321ECD7.D  
 Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
 Compound Sublist: AR1660.sub  
 Instrument, Inj. Vol.: ecd7.i, 2ul  
 Quant Method: Internal Std

ARI ID: 0.25PPMAR1660  
 Client ID:  
 Injection Date: 05-MAY-2023 23:26  
 Report Date: 05/06/2023 11:30  
 Matrix: NONE  
 Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.743  | 0.001         | 368910   | 5.629  | 0.000          | 197442   | 40.7       | 41.1        | 0.9 | Tetrachloro-m-xylene |
| 13.841 | 0.001         | 341641   | 14.070 | 0.002          | 386381   | 39.0       | 41.7        | 6.6 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 601474      | 0.0 |
| Hexabromobiphenyl  | 876625         | 876625      | 0.0 |
| Column 2           |                |             |     |
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 349289      | 0.0 |
| Hexabromobiphenyl  | 652984         | 652984      | 0.0 |

\* Standard Areas taken from Initial Cal Level 3  
 Initial Calibration Date: 05-MAY-2023  
 <- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |       |        | ZB35 Col |                          |       |        |        |        |         |
|--------------------------|-------|-------|-------|--------|----------|--------------------------|-------|--------|--------|--------|---------|
| Aroclor                  | Peak# | RT    | Shift | Area   | Amount   | Peak#                    | RT    | Shift  | Area   | Amount |         |
| Aroclor-1016             | 1     | 7.213 | 0.001 | 58979  | 253.2    | 1                        | 7.204 | -0.000 | 48493  | 245.3  |         |
| Aroclor-1016             | 2     | 7.595 | 0.001 | 191892 | 263.5    | 2                        | 7.811 | 0.003  | 106372 | 252.4  |         |
| Aroclor-1016             | 3     | 7.735 | 0.002 | 84934  | 252.3    | 3                        | 8.010 | 0.004  | 46169  | 248.4  |         |
| Aroclor-1016             | 4     | 8.399 | 0.001 | 35727  | 257.2    | 4                        | 8.260 | 0.001  | 36109  | 244.6  |         |
| Total CollAve (4 peaks): |       |       |       | 256.6  |          | Total Col2Ave (4 peaks): |       |        |        | 247.7  | RPD = 4 |
| Corrected Ave (3 peaks): |       |       |       | 254.2  |          | Corrected Ave (3 peaks): |       |        |        | 246.1  | RPD = 3 |

CalAmt %D: 2.6

CalAmt %D: -0.9

|                          |   |        |       |        |       |                          |        |        |        |       |         |
|--------------------------|---|--------|-------|--------|-------|--------------------------|--------|--------|--------|-------|---------|
| Aroclor-1260             | 1 | 10.995 | 0.002 | 115872 | 250.0 | 1                        | 11.605 | -0.000 | 87314  | 251.8 |         |
| Aroclor-1260             | 2 | 11.312 | 0.002 | 114768 | 250.9 | 2                        | 11.872 | -0.000 | 232184 | 256.0 |         |
| Aroclor-1260             | 3 | 11.687 | 0.001 | 287920 | 251.3 | 3                        | 12.389 | 0.001  | 56725  | 252.4 |         |
| Aroclor-1260             | 4 | 12.091 | 0.002 | 141607 | 252.3 | 4                        | 12.456 | 0.000  | 154797 | 255.5 |         |
| Aroclor-1260             | 5 | 12.195 | 0.002 | 60315  | 246.5 | NS                       | ---    |        |        | ----  |         |
| Total CollAve (5 peaks): |   |        |       | 250.2  |       | Total Col2Ave (4 peaks): |        |        |        | 253.9 | RPD = 1 |
| Corrected Ave (4 peaks): |   |        |       | 249.7  |       | Corrected Ave (3 peaks): |        |        |        | 253.2 | RPD = 1 |

CalAmt %D: 0.1

CalAmt %D: 1.6

Total PCB Area Coll (5.842 - 13.740) = 3355836 Coll Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 2087295 Col2 Total PCB = 0.5 ppm\*

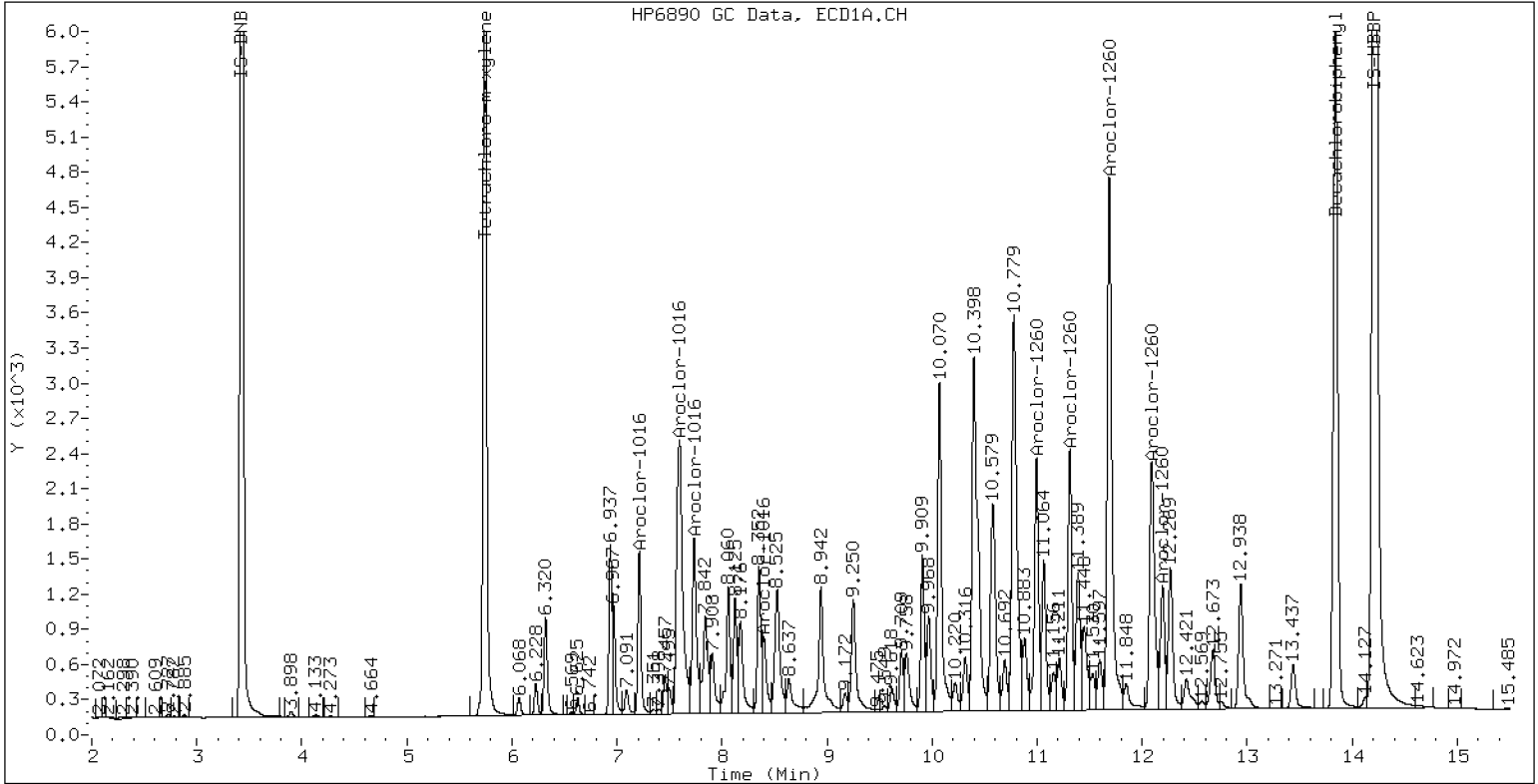
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1660

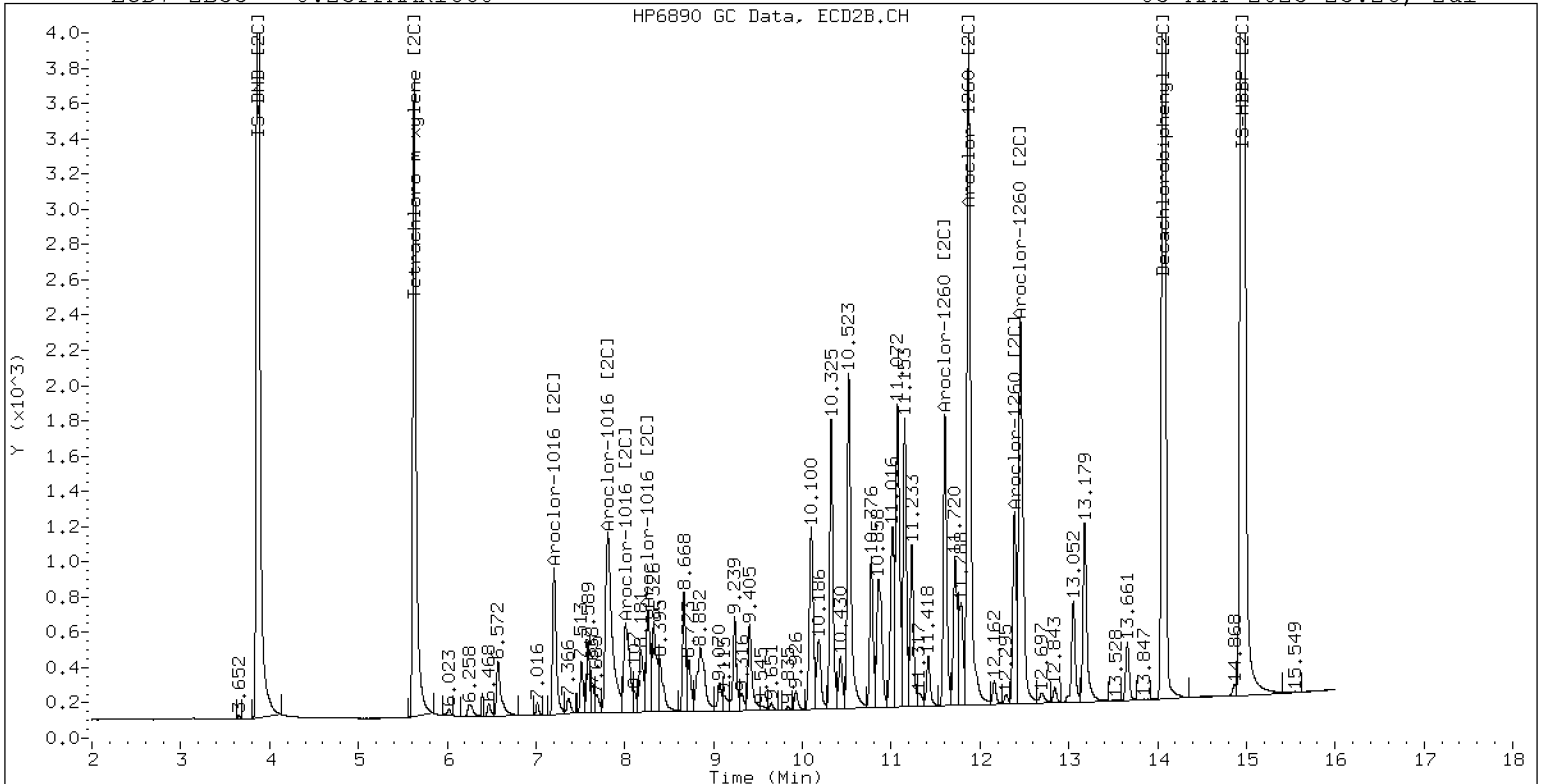
05-MAY-2023 23:26, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1660

05-MAY-2023 23:26, 2ul



ZB-35 Manual Integration: NO



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052322ECD7.D  
Data file 2: /230505.b/230505.b/05052322ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.02PPMAR1660  
Client ID:  
Injection Date: 05-MAY-2023 23:47  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD  | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|------|----------------------|
| 5.742  | -0.000        | 28836    | 5.630  | 0.002          | 14779    | 3.2        | 3.2         | 1.4  | Tetrachloro-m-xylene |
| 13.843 | 0.002         | 31610    | 14.071 | 0.002          | 27131    | 3.6        | 2.9         | 20.0 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 595544      | -1.0 |
| Hexabromobiphenyl  | 876625         | 880480      | 0.4  |
| Column 2           |                |             |      |
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 349289         | 338730      | -3.0 |
| Hexabromobiphenyl  | 652984         | 649475      | -0.5 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |       |       |        | ZB35 Col                 |        |       |       |        |          |
|--------------------------|-------|--------|-------|-------|--------|--------------------------|--------|-------|-------|--------|----------|
| Aroclor                  | Peak# | RT     | Shift | Area  | Amount | Peak#                    | RT     | Shift | Area  | Amount |          |
| Aroclor-1016             | 1     | 7.213  | 0.001 | 4852  | 21.0   | 1                        | 7.206  | 0.002 | 4368  | 22.8   |          |
| Aroclor-1016             | 2     | 7.595  | 0.001 | 13075 | 18.1   | 2                        | 7.819  | 0.012 | 8341  | 20.4   |          |
| Aroclor-1016             | 3     | 7.737  | 0.004 | 6514  | 19.5   | 3                        | 8.043  | 0.038 | 3708  | 20.6   |          |
| Aroclor-1016             | 4     | 8.400  | 0.002 | 2555  | 18.6   | 4                        | 8.261  | 0.002 | 3078  | 21.5   |          |
| Total CollAve (4 peaks): |       |        |       | 19.3  |        | Total Col2Ave (4 peaks): |        |       |       | 21.3   | RPD = 10 |
| Corrected Ave (3 peaks): |       |        |       | 18.8  |        | Corrected Ave (3 peaks): |        |       |       | 20.8   | RPD = 10 |
| CalAmt %D:               |       |        |       | -3.4  |        | CalAmt %D:               |        |       |       | 6.6    |          |
| Aroclor-1260             | 1     | 10.998 | 0.005 | 10082 | 21.7   | 1                        | 11.610 | 0.004 | 7378  | 21.4   |          |
| Aroclor-1260             | 2     | 11.316 | 0.006 | 9760  | 21.2   | 2                        | 11.878 | 0.006 | 18318 | 20.3   |          |
| Aroclor-1260             | 3     | 11.694 | 0.008 | 24587 | 21.4   | 3                        | 12.392 | 0.004 | 4519  | 20.2   |          |
| Aroclor-1260             | 4     | 12.098 | 0.008 | 12018 | 21.3   | 4                        | 12.461 | 0.006 | 12454 | 20.7   |          |
| Aroclor-1260             | 5     | 12.198 | 0.005 | 5499  | 22.4   | NS                       | ---    |       |       | ----   |          |
| Total CollAve (5 peaks): |       |        |       | 21.6  |        | Total Col2Ave (4 peaks): |        |       |       | 20.6   | RPD = 4  |
| Corrected Ave (4 peaks): |       |        |       | 21.4  |        | Corrected Ave (3 peaks): |        |       |       | 20.4   | RPD = 5  |
| CalAmt %D:               |       |        |       | 8.0   |        | CalAmt %D:               |        |       |       | 3.2    |          |

Total PCB Area Coll (5.842 - 13.740) = 294199 Coll Total PCB = 0.0 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 173796 Col2 Total PCB = 0.0 ppm\*

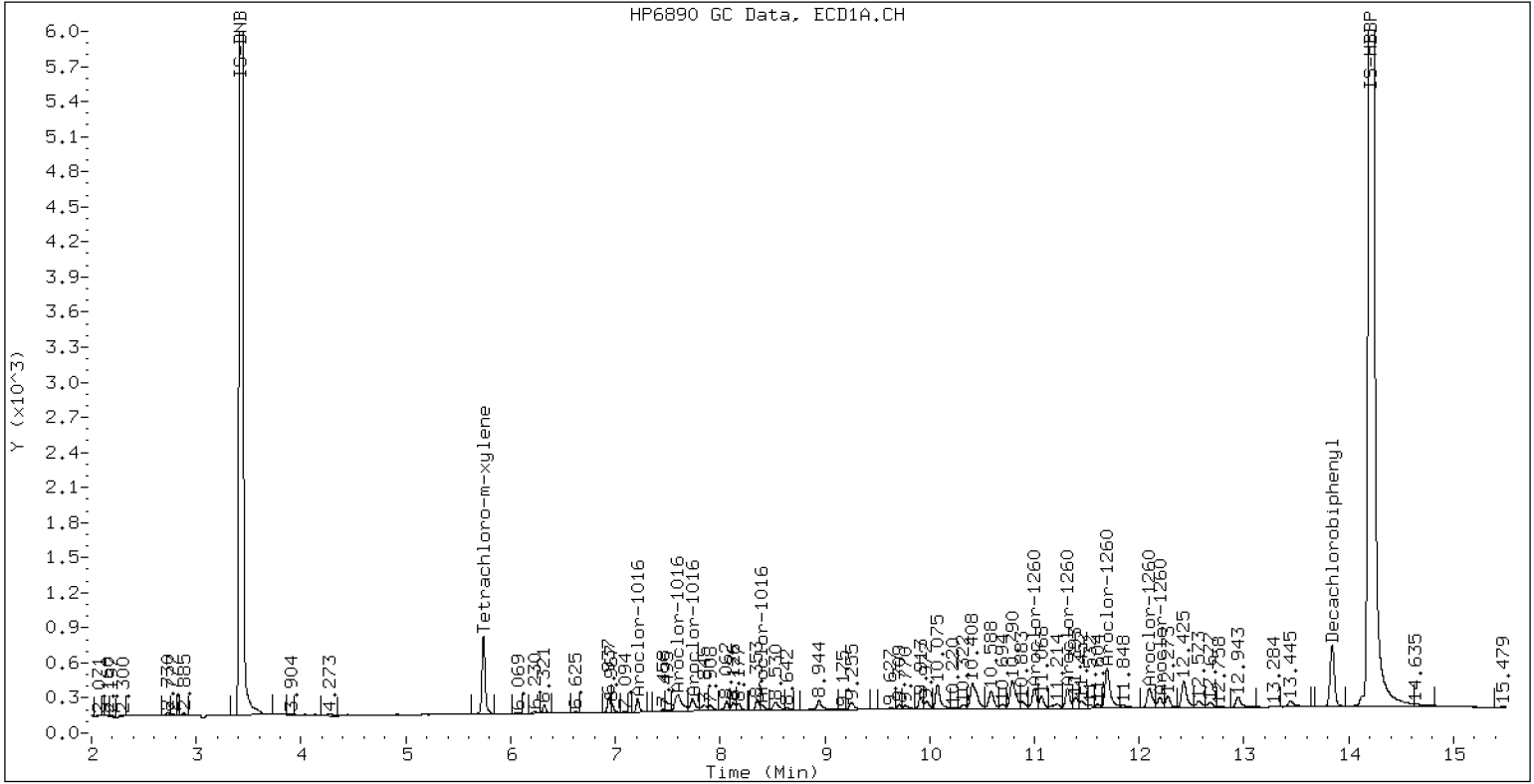
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.02PPMAR1660

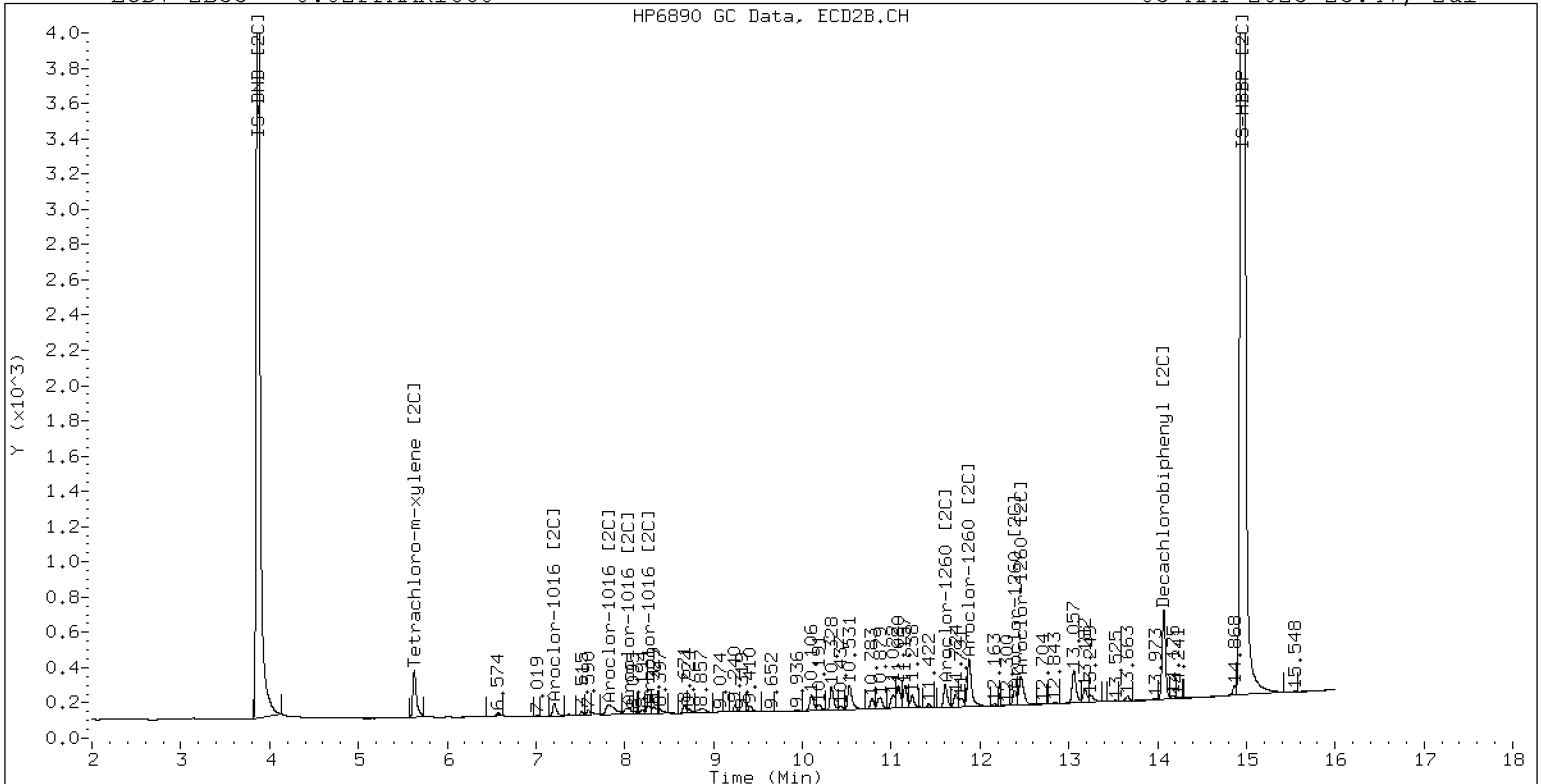
05-MAY-2023 23:47, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.02PPMAR1660

05-MAY-2023 23:47, 2ul

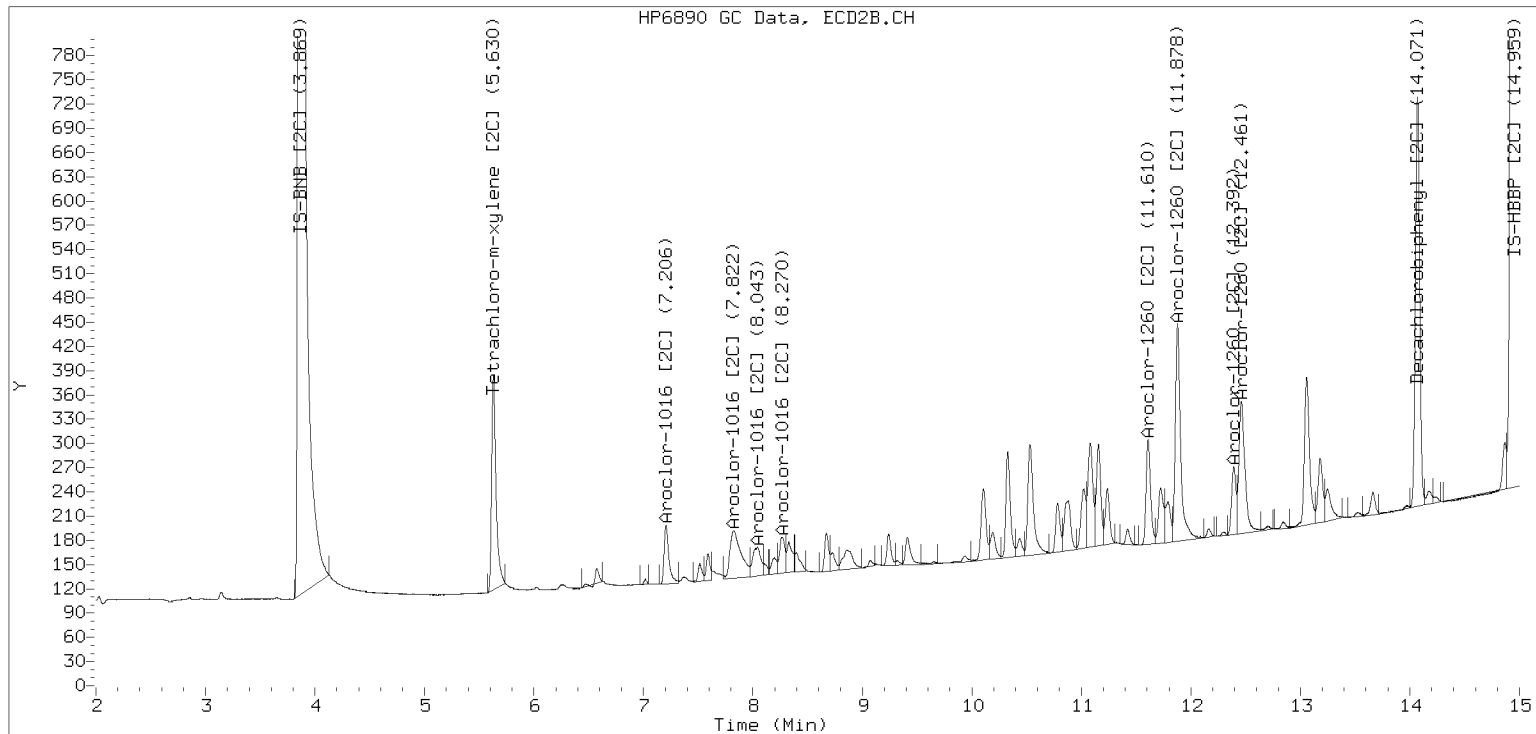


ZB-35 Manual Integration: YES

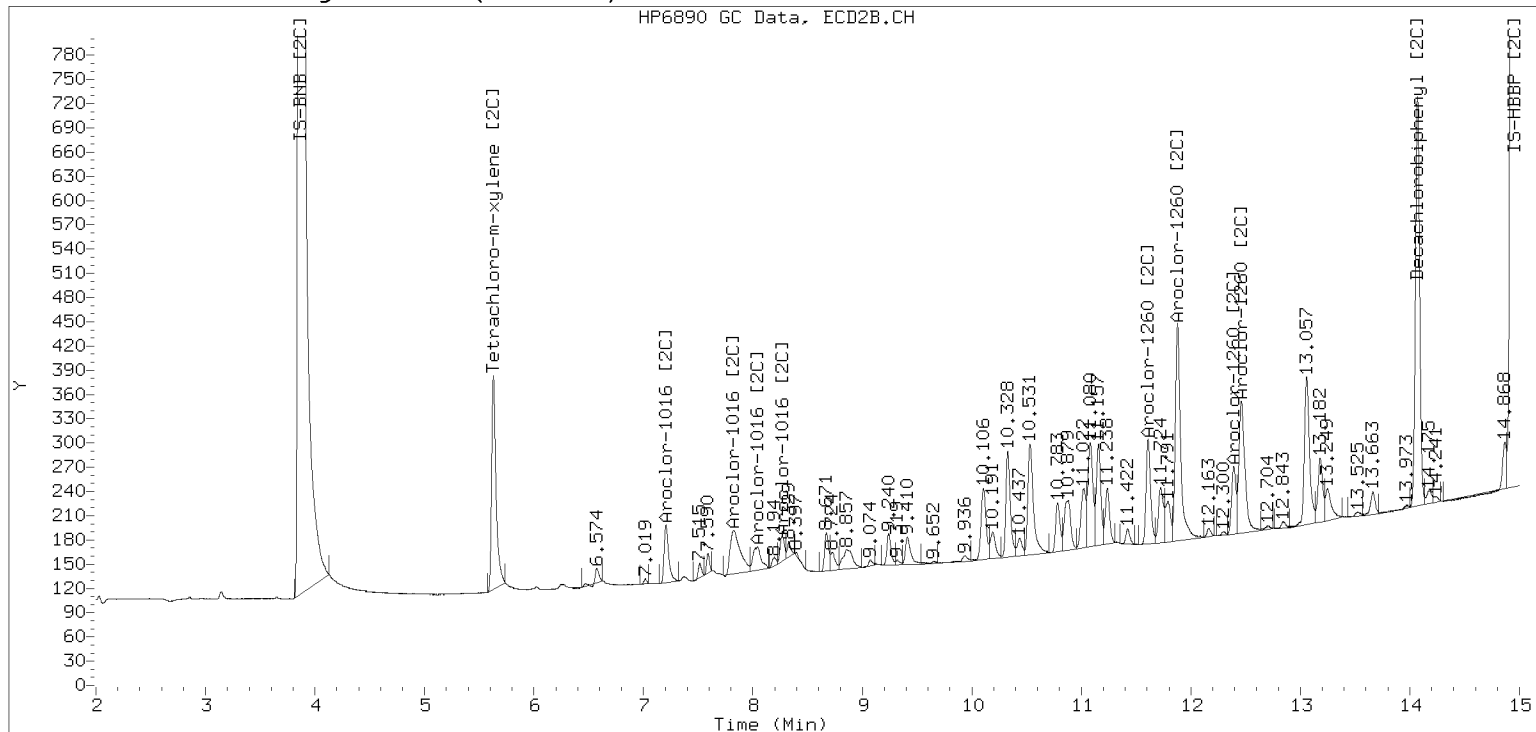
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230505.b/230505.b/05052322ECD7.D Injection Date: 05-MAY-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052323ECD7.D  
Data file 2: /230505.b/230505.b/05052323ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.05PPMAR1660  
Client ID:  
Injection Date: 06-MAY-2023 00:08  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD  | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|------|----------------------|
| 5.741  | -0.001        | 72149    | 5.630  | 0.001          | 37778    | 7.9        | 7.8         | 0.3  | Tetrachloro-m-xylene |
| 13.843 | 0.002         | 75564    | 14.070 | 0.002          | 71601    | 8.4        | 7.6         | 10.2 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 610127      | 1.4 |
| Hexabromobiphenyl  | 876625         | 902634      | 3.0 |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 350964      | 0.5 |
| Hexabromobiphenyl  | 652984         | 666660      | 2.1 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |       |       |                          | ZB35 Col |        |       |       |         |  |
|--------------------------|-------|--------|-------|-------|--------------------------|----------|--------|-------|-------|---------|--|
| Aroclor                  | Peak# | RT     | Shift | Area  | Amount                   | Peak#    | RT     | Shift | Area  | Amount  |  |
| Aroclor-1016             | 1     | 7.214  | 0.001 | 12303 | 52.1                     | 1        | 7.205  | 0.001 | 10404 | 52.4    |  |
| Aroclor-1016             | 2     | 7.595  | 0.000 | 35912 | 48.6                     | 2        | 7.821  | 0.013 | 20971 | 49.5    |  |
| Aroclor-1016             | 3     | 7.736  | 0.003 | 18491 | 54.1                     | 3        | 8.016  | 0.010 | 9788  | 52.4    |  |
| Aroclor-1016             | 4     | 8.400  | 0.002 | 7326  | 52.0                     | 4        | 8.264  | 0.005 | 8176  | 55.1    |  |
| Total CollAve (4 peaks): |       |        |       | 51.7  | Total Col2Ave (4 peaks): |          |        |       | 52.4  | RPD = 1 |  |
| Corrected Ave (3 peaks): |       |        |       | 50.9  | Corrected Ave (3 peaks): |          |        |       | 51.4  | RPD = 1 |  |
| CalAmt %D:               |       |        |       | 3.4   | CalAmt %D:               |          |        |       | 4.7   |         |  |
| Aroclor-1260             | 1     | 10.998 | 0.005 | 23619 | 49.5                     | 1        | 11.609 | 0.003 | 17805 | 50.3    |  |
| Aroclor-1260             | 2     | 11.316 | 0.006 | 23213 | 49.3                     | 2        | 11.876 | 0.004 | 46188 | 49.9    |  |
| Aroclor-1260             | 3     | 11.693 | 0.007 | 58862 | 49.9                     | 3        | 12.391 | 0.003 | 11048 | 48.1    |  |
| Aroclor-1260             | 4     | 12.096 | 0.006 | 28206 | 48.8                     | 4        | 12.460 | 0.004 | 30586 | 49.4    |  |
| Aroclor-1260             | 5     | 12.197 | 0.004 | 12672 | 50.3                     | NS       | ---    |       |       | ----    |  |
| Total CollAve (5 peaks): |       |        |       | 49.6  | Total Col2Ave (4 peaks): |          |        |       | 49.4  | RPD = 0 |  |
| Corrected Ave (4 peaks): |       |        |       | 49.4  | Corrected Ave (3 peaks): |          |        |       | 49.2  | RPD = 0 |  |
| CalAmt %D:               |       |        |       | -0.9  | CalAmt %D:               |          |        |       | -1.1  |         |  |

Total PCB Area Coll (5.842 - 13.740) = 697433 Coll Total PCB = 0.1 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 429325 Col2 Total PCB = 0.1 ppm\*

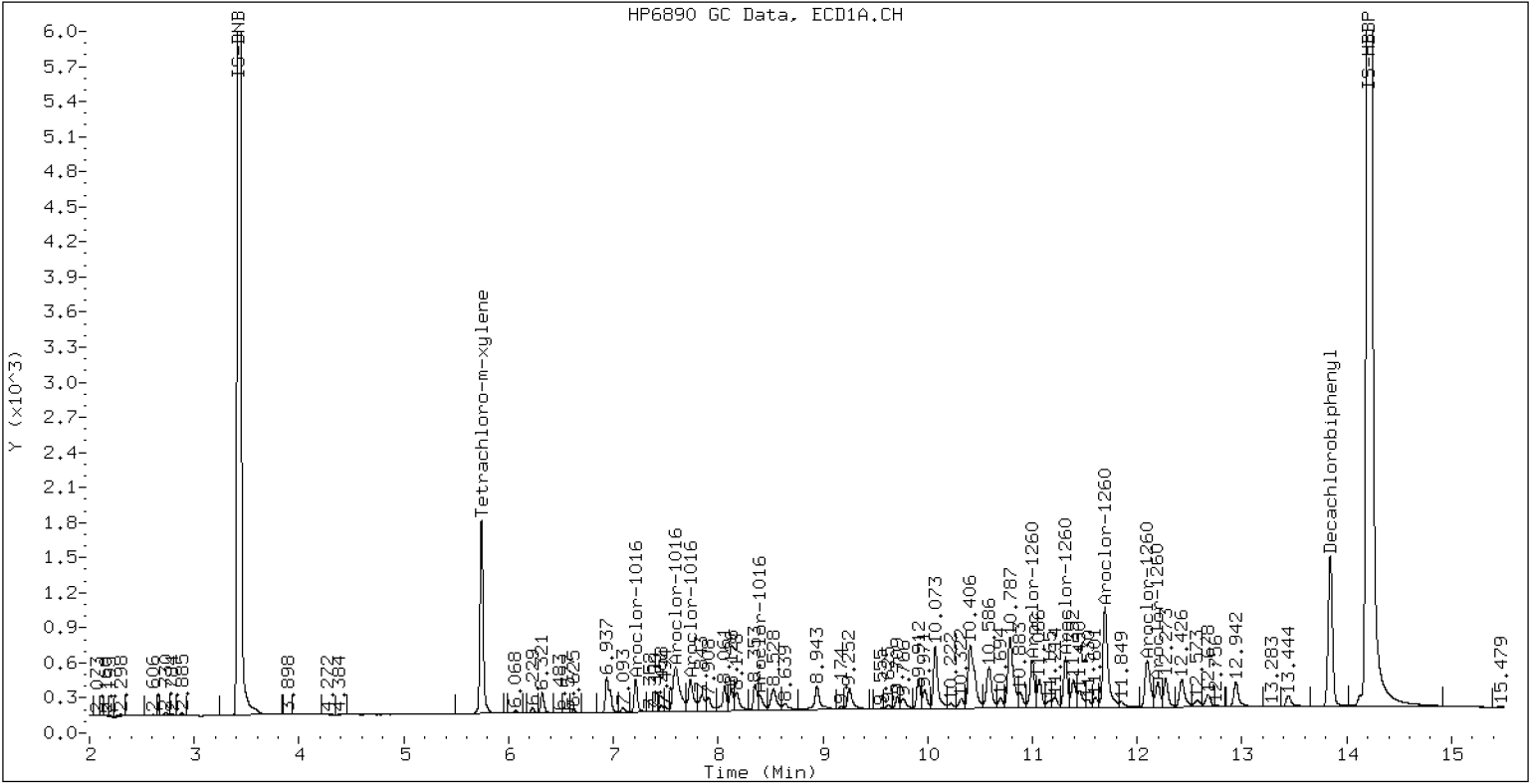
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

## PCB Dual Column Chromatograms

ECD7-ZB5 0.05PPMAR1660

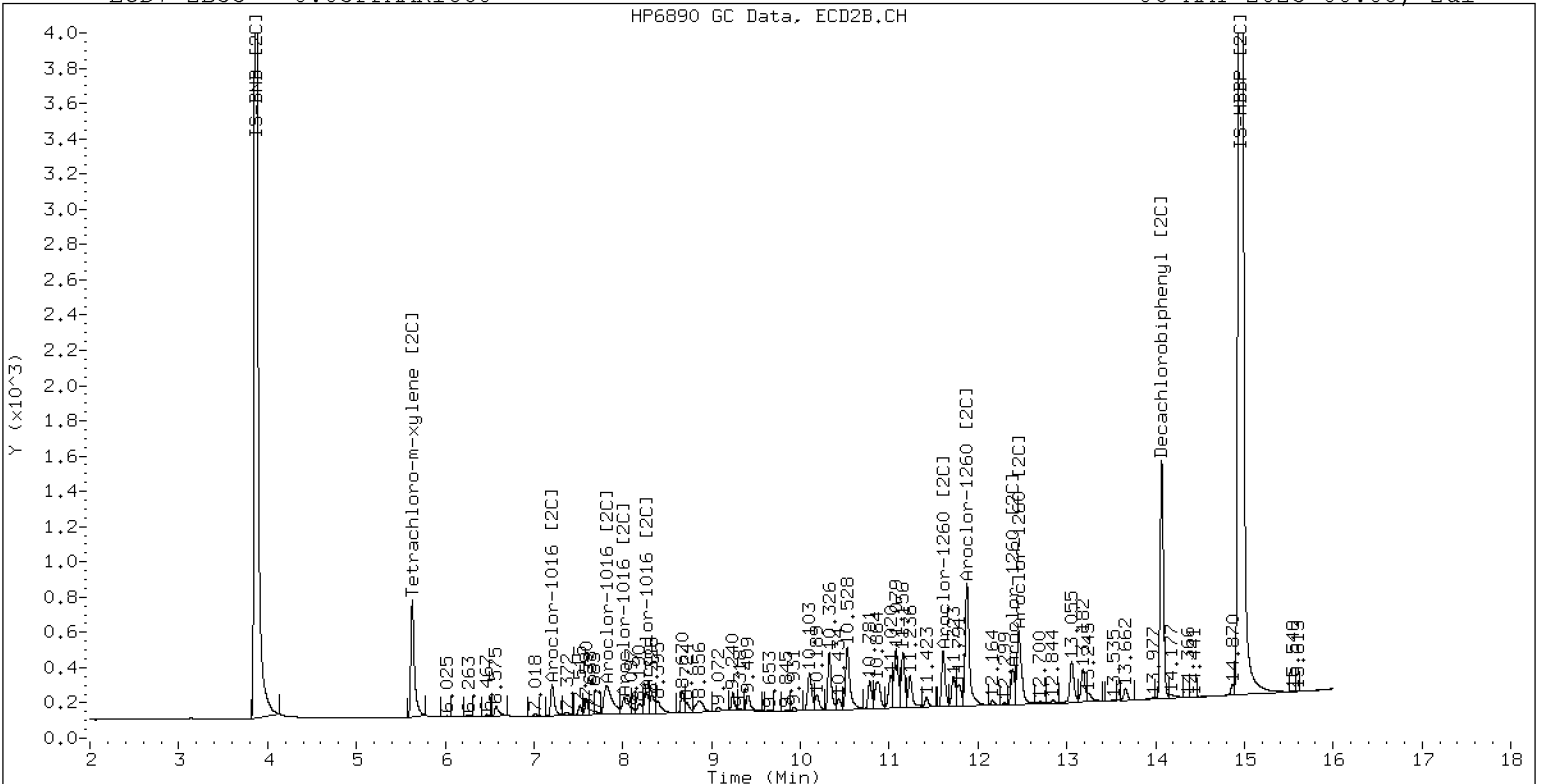
06-MAY-2023 00:08, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.05PPMAR1660

06-MAY-2023 00:08, 2ul

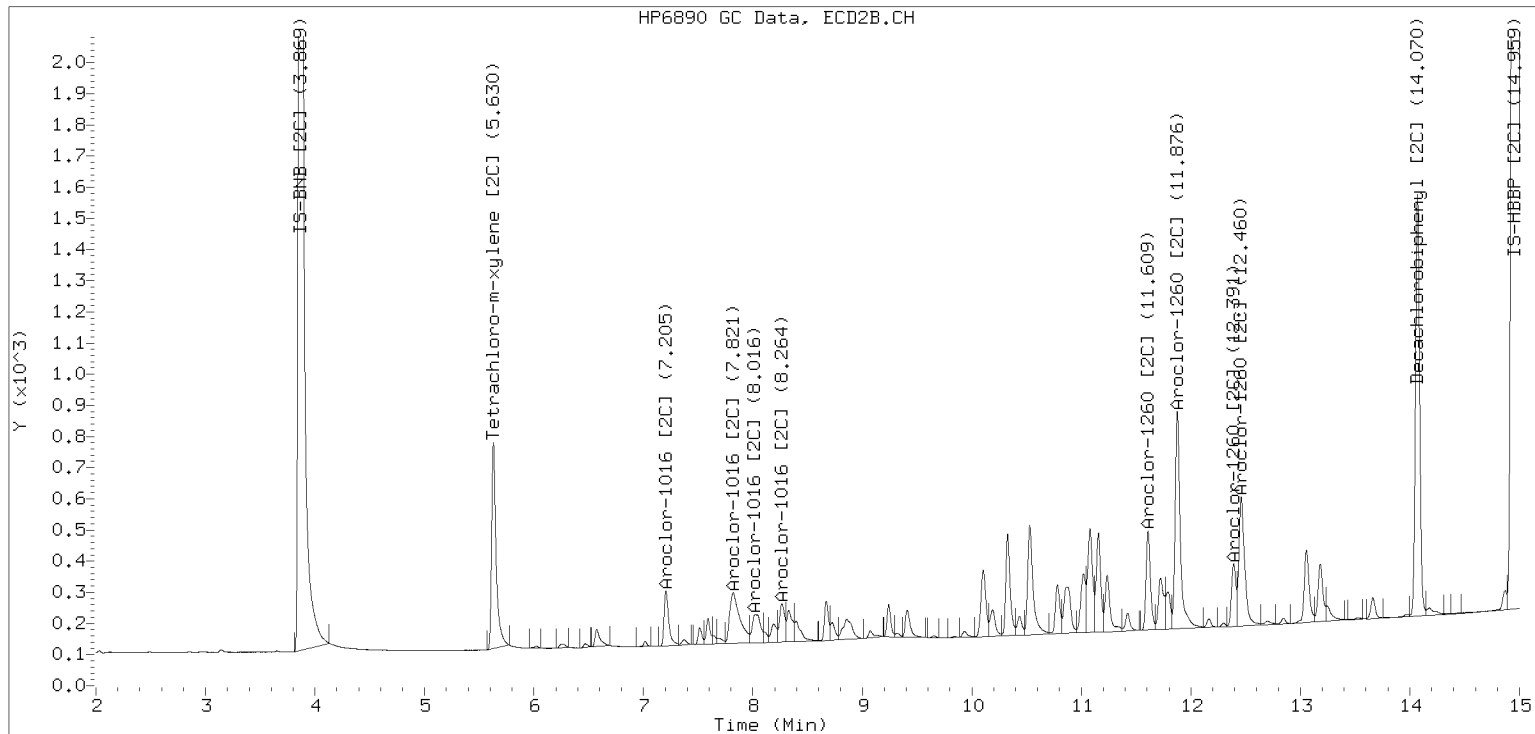


ZB-35 Manual Integration: YES

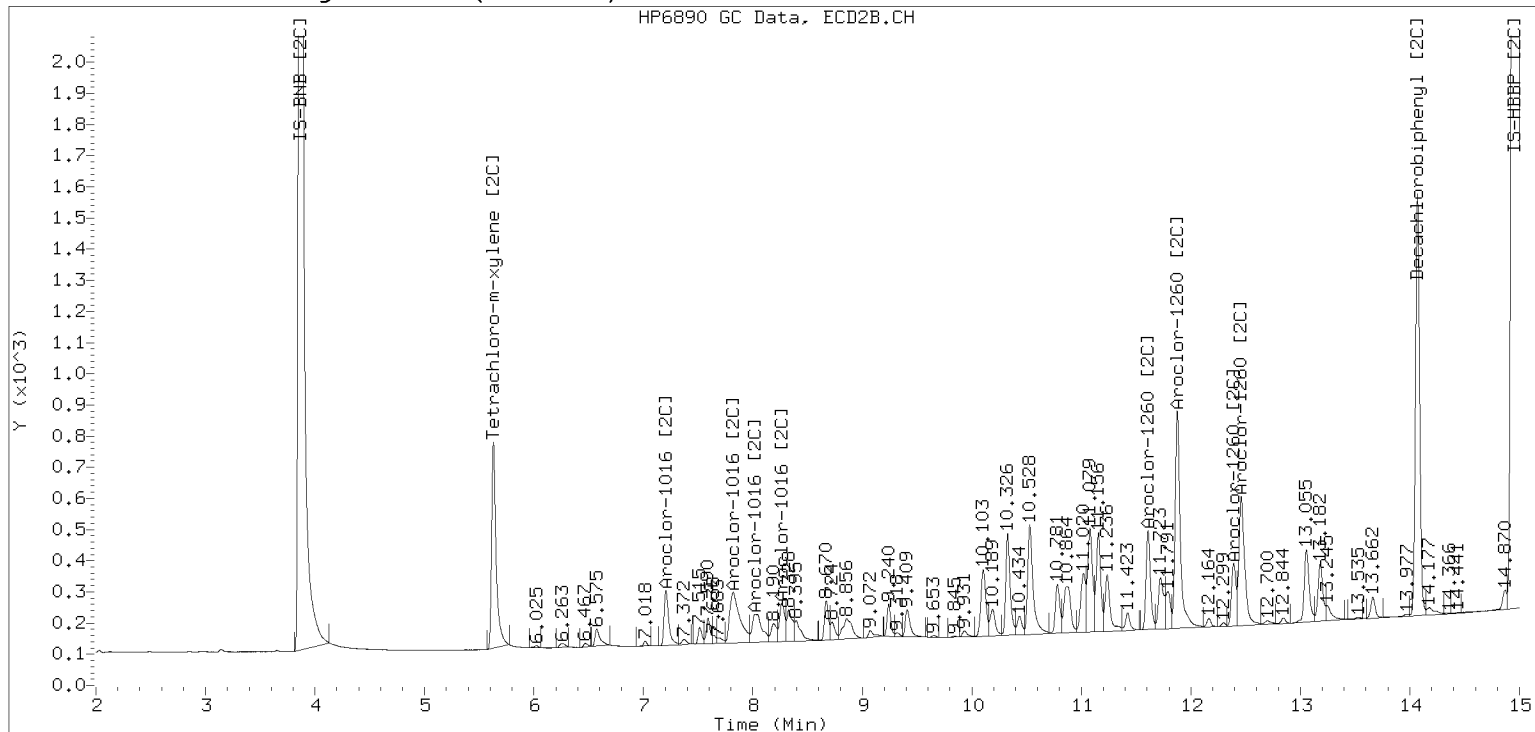
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230505.b/230505.b/05052323ECD7.D Injection Date: 06-MAY-2023

Manual Integration (After)



Processed Integration (Before)





Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052324ECD7.D  
Data file 2: /230505.b/230505.b/05052324ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 1.0PPMAR1660  
Client ID:  
Injection Date: 06-MAY-2023 00:29  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col<br>Shift | Response | RT     | ZB35 Col<br>Shift | Response | ZB5<br>on col | ZB35<br>on col | RPD  | Compound/Flag        |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|------|----------------------|
| 5.746  | 0.004            | 1354956  | 5.627  | -0.001            | 709704   | 151.5         | 152.0          | 0.4  | Tetrachloro-m-xylene |
| 13.842 | 0.002            | 1208957  | 14.071 | 0.002             | 1442827  | 141.2         | 159.2          | 12.0 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 594005      | -1.2 |
| Hexabromobiphenyl  | 876625         | 857318      | -2.2 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 349289         | 339380      | -2.8 |
| Hexabromobiphenyl  | 652984         | 638394      | -2.2 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |         | ZB35 Col |                          |        |        |        |               |
|--------------------------|-------|--------|--------|---------|----------|--------------------------|--------|--------|--------|---------------|
| Aroclor                  | Peak# | RT     | Shift  | Area    | Amount   | Peak#                    | RT     | Shift  | Area   | Amount        |
| Aroclor-1016             | 1     | 7.213  | 0.000  | 192466  | 836.8    | 1                        | 7.203  | -0.001 | 161296 | 839.6         |
| Aroclor-1016             | 2     | 7.595  | 0.000  | 687116  | 955.4    | 2                        | 7.804  | -0.003 | 383432 | 936.5         |
| Aroclor-1016             | 3     | 7.732  | -0.000 | 284089  | 854.4    | 3                        | 8.002  | -0.003 | 161269 | 893.1         |
| Aroclor-1016             | 4     | 8.397  | -0.001 | 121539  | 886.0    | 4                        | 8.257  | -0.002 | 118708 | 827.5         |
| Total CollAve (4 peaks): |       |        |        | 883.2   |          | Total Col2Ave (4 peaks): |        |        |        | 874.2 RPD = 1 |
| Corrected Ave (3 peaks): |       |        |        | 859.1   |          | Corrected Ave (3 peaks): |        |        |        | 853.4 RPD = 1 |
| CalAmt %D:               |       |        |        | -11.7   |          | CalAmt %D:               |        |        |        | -12.6         |
| Aroclor-1260             | 1     | 10.992 | -0.001 | 410905  | 906.4    | 1                        | 11.604 | -0.002 | 304531 | 898.2         |
| Aroclor-1260             | 2     | 11.309 | -0.001 | 410553  | 917.6    | 2                        | 11.869 | -0.003 | 813835 | 917.7         |
| Aroclor-1260             | 3     | 11.683 | -0.003 | 1014157 | 905.1    | 3                        | 12.387 | -0.001 | 218887 | 996.0         |
| Aroclor-1260             | 4     | 12.087 | -0.003 | 505824  | 921.7    | 4                        | 12.453 | -0.003 | 543988 | 918.3         |
| Aroclor-1260             | 5     | 12.193 | -0.001 | 212396  | 887.6    | NS                       | ---    |        |        | ----          |
| Total CollAve (5 peaks): |       |        |        | 907.7   |          | Total Col2Ave (4 peaks): |        |        |        | 932.6 RPD = 3 |
| Corrected Ave (4 peaks): |       |        |        | 904.2   |          | Corrected Ave (3 peaks): |        |        |        | 911.4 RPD = 1 |
| CalAmt %D:               |       |        |        | -9.2    |          | CalAmt %D:               |        |        |        | -6.7          |

Total PCB Area Coll (5.842 - 13.740) = 11665793 Coll Total PCB = 1.8 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 7382788 Col2 Total PCB = 1.8 ppm\*

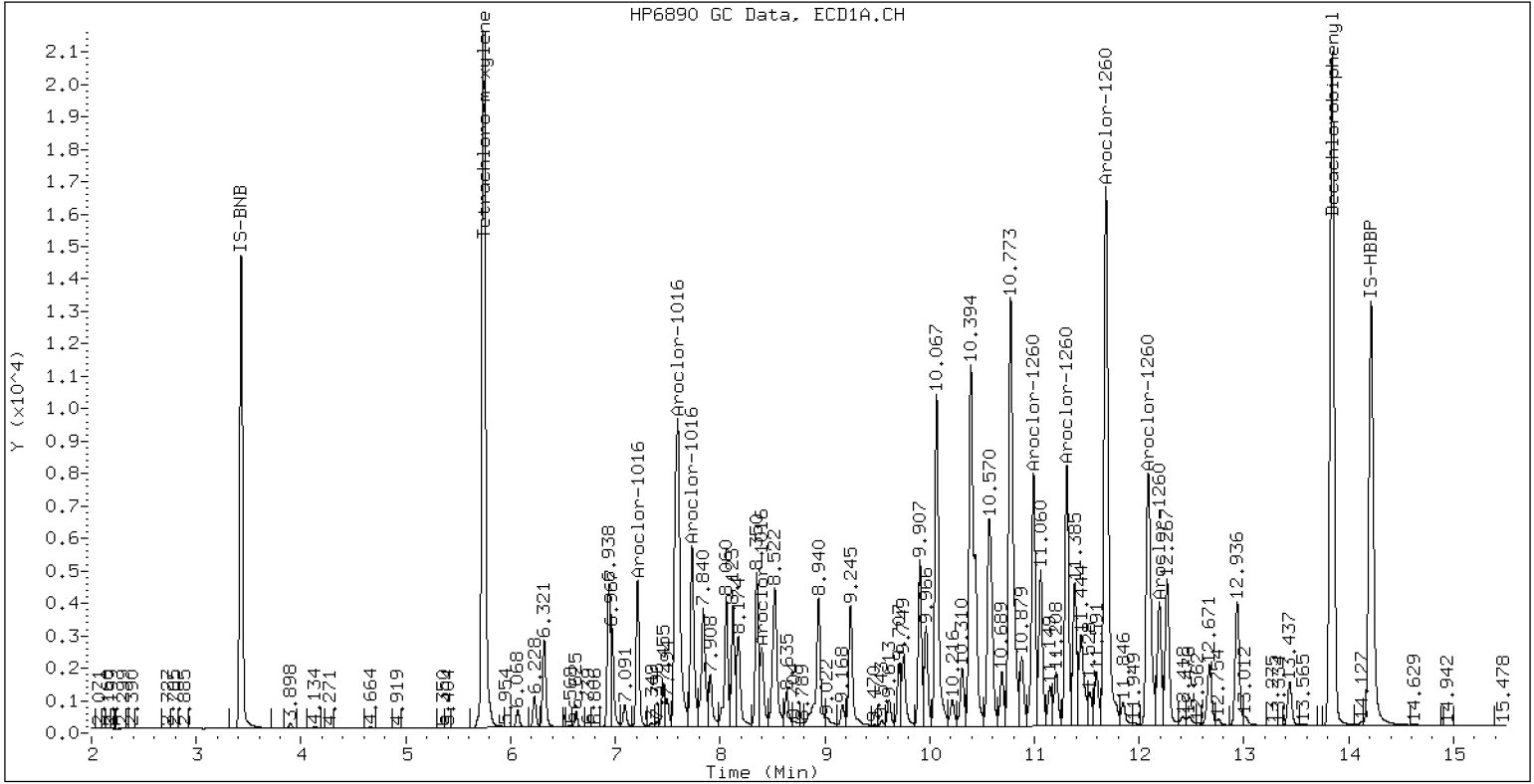
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 1.0PPMAR1660

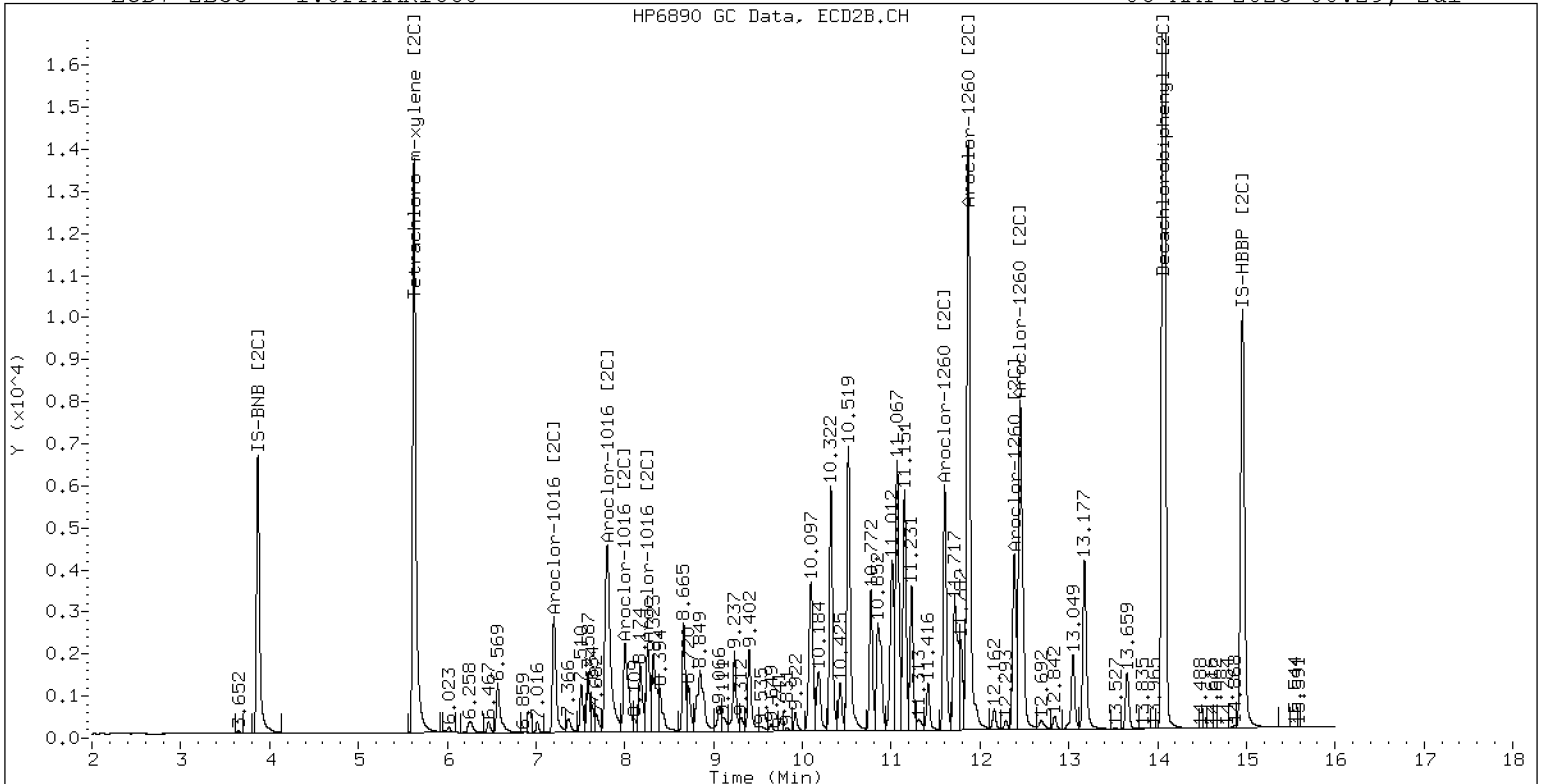
06-MAY-2023 00:29, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 1.0PPMAR1660

06-MAY-2023 00:29, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052325ECD7.D  
Data file 2: /230505.b/230505.b/05052325ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.1PPMAR1660  
Client ID:  
Injection Date: 06-MAY-2023 00:50  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col<br>Shift | Response | RT     | ZB35 Col<br>Shift | Response | ZB5<br>on col | ZB35<br>on col | RPD | Compound/Flag        |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.741  | -0.001           | 166260   | 5.629  | 0.000             | 87721    | 17.3          | 17.2           | 0.5 | Tetrachloro-m-xylene |
| 13.841 | 0.000            | 162151   | 14.069 | 0.001             | 170994   | 17.0          | 17.2           | 1.1 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 639496      | 6.3 |
| Hexabromobiphenyl  | 876625         | 955499      | 9.0 |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 371294      | 6.3 |
| Hexabromobiphenyl  | 652984         | 700767      | 7.3 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        |        | ZB35 Col                 |        |       |        |               |
|--------------------------|-------|--------|--------|--------|--------|--------------------------|--------|-------|--------|---------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount | Peak#                    | RT     | Shift | Area   | Amount        |
| Aroclor-1016             | 1     | 7.212  | -0.000 | 27672  | 111.8  | 1                        | 7.204  | 0.000 | 22585  | 107.5         |
| Aroclor-1016             | 2     | 7.595  | 0.000  | 84096  | 108.6  | 2                        | 7.815  | 0.008 | 47261  | 105.5         |
| Aroclor-1016             | 3     | 7.735  | 0.002  | 40718  | 113.8  | 3                        | 8.012  | 0.007 | 21450  | 108.6         |
| Aroclor-1016             | 4     | 8.399  | 0.001  | 17000  | 115.1  | 4                        | 8.262  | 0.003 | 17337  | 110.5         |
| Total CollAve (4 peaks): |       |        |        | 112.3  |        | Total Col2Ave (4 peaks): |        |       |        | 108.0 RPD = 4 |
| Corrected Ave (3 peaks): |       |        |        | 111.4  |        | Corrected Ave (3 peaks): |        |       |        | 107.2 RPD = 4 |
| CalAmt %D:               |       |        |        | 12.3   |        | CalAmt %D:               |        |       |        | 8.0           |
| Aroclor-1260             | 1     | 10.995 | 0.002  | 53621  | 106.1  | 1                        | 11.608 | 0.002 | 39451  | 106.0         |
| Aroclor-1260             | 2     | 11.313 | 0.003  | 53001  | 106.3  | 2                        | 11.874 | 0.002 | 104406 | 107.3         |
| Aroclor-1260             | 3     | 11.690 | 0.004  | 132765 | 106.3  | 3                        | 12.391 | 0.003 | 24449  | 101.4         |
| Aroclor-1260             | 4     | 12.093 | 0.003  | 64276  | 105.1  | 4                        | 12.457 | 0.002 | 68859  | 105.9         |
| Aroclor-1260             | 5     | 12.196 | 0.003  | 28307  | 106.1  | NS                       | ---    |       |        | ----          |
| Total CollAve (5 peaks): |       |        |        | 106.0  |        | Total Col2Ave (4 peaks): |        |       |        | 105.1 RPD = 1 |
| Corrected Ave (4 peaks): |       |        |        | 105.9  |        | Corrected Ave (3 peaks): |        |       |        | 104.4 RPD = 1 |
| CalAmt %D:               |       |        |        | 6.0    |        | CalAmt %D:               |        |       |        | 5.1           |

Total PCB Area Coll (5.842 - 13.740) = 1580756 Coll Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 950746 Col2 Total PCB = 0.2 ppm\*

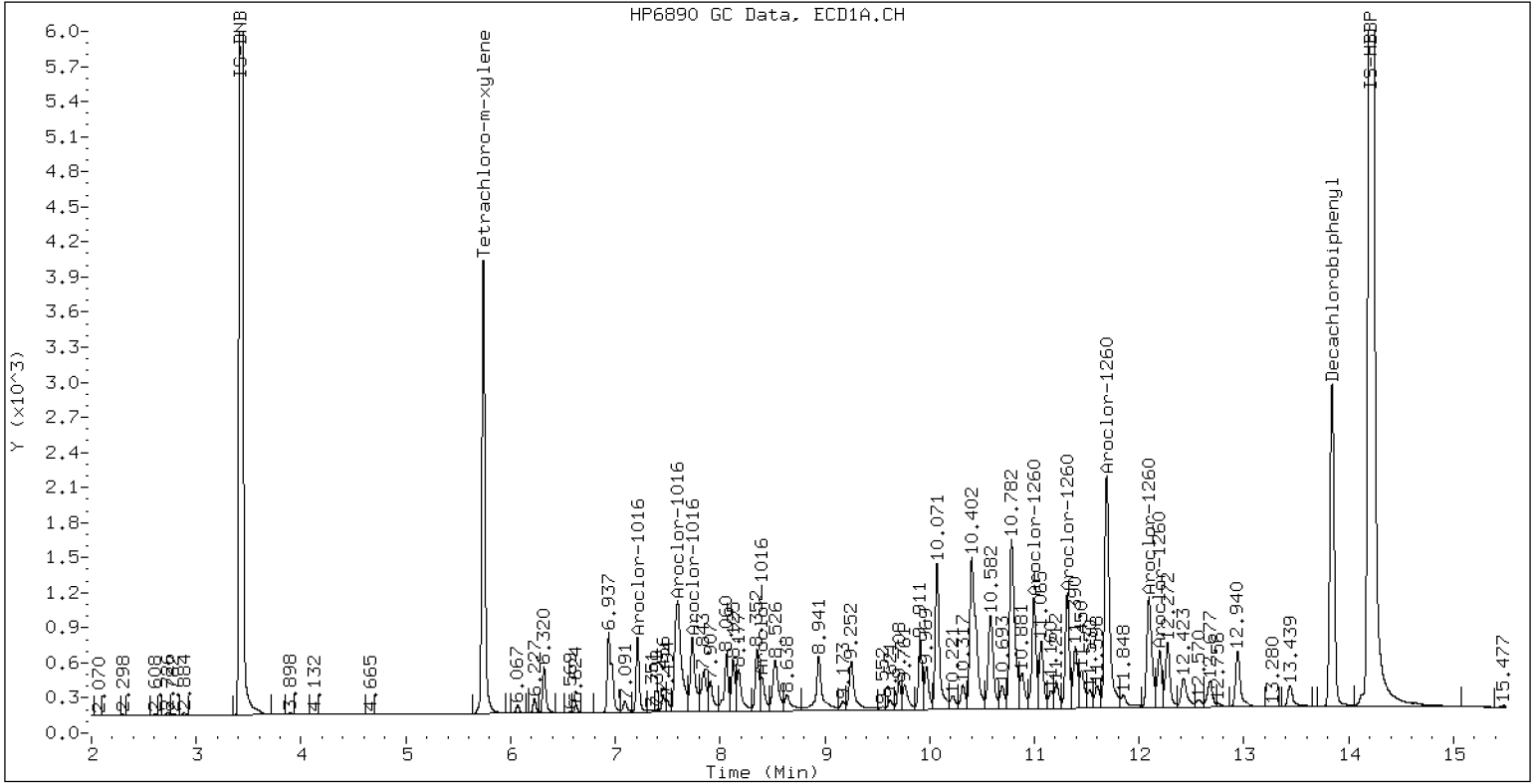
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.1PPMAR1660

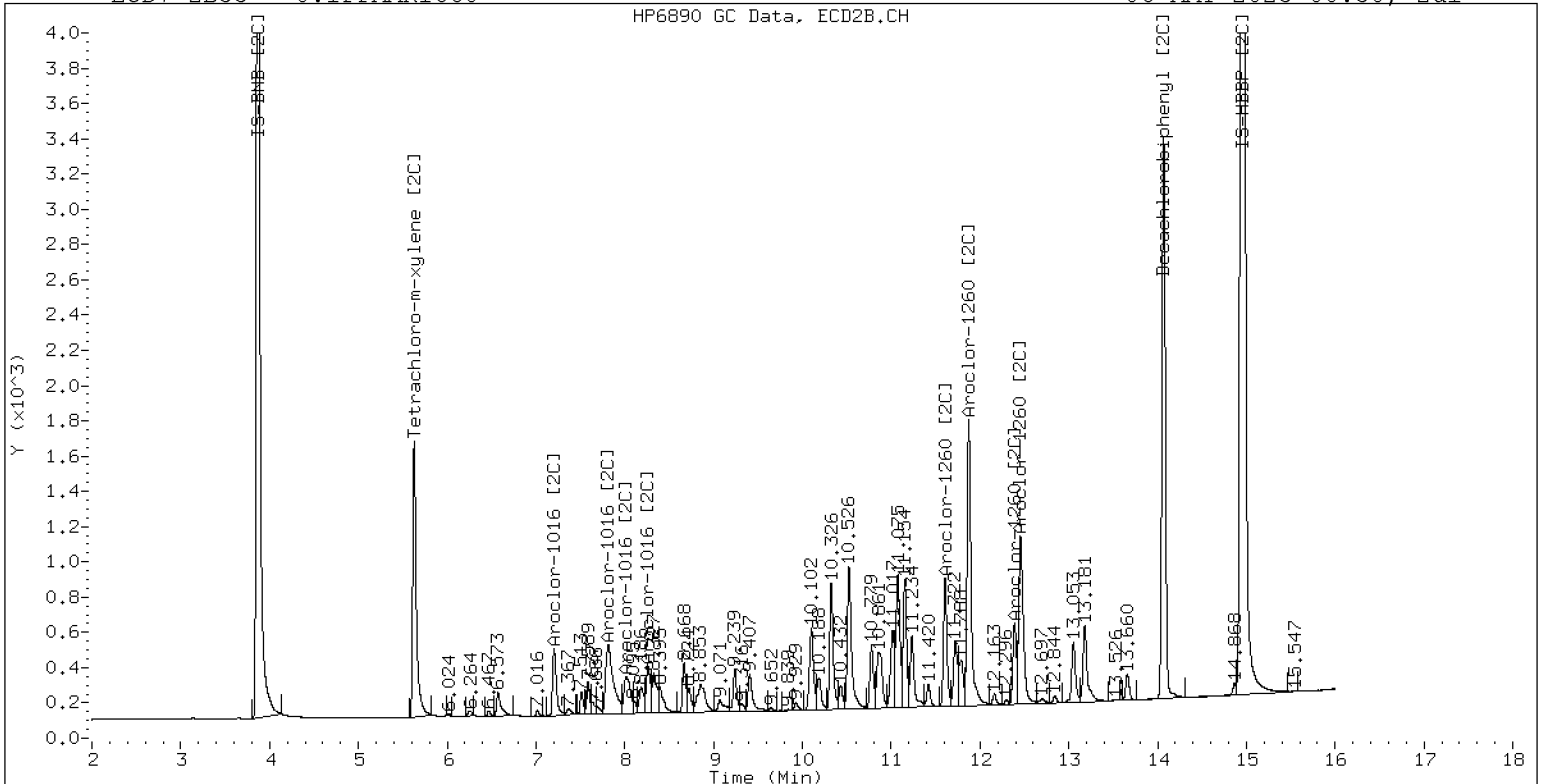
06-MAY-2023 00:50, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.1PPMAR1660

06-MAY-2023 00:50, 2ul

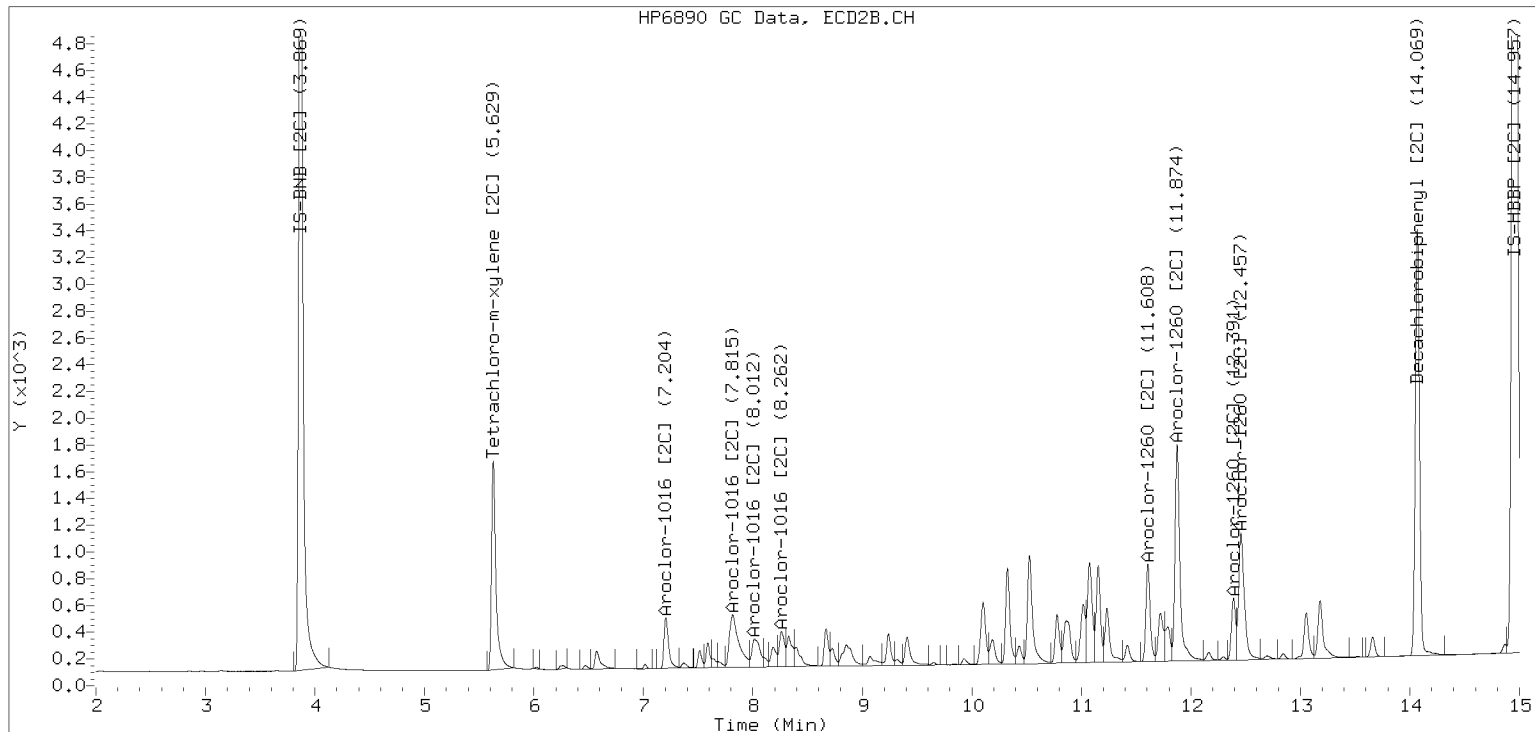


ZB-35 Manual Integration: YES

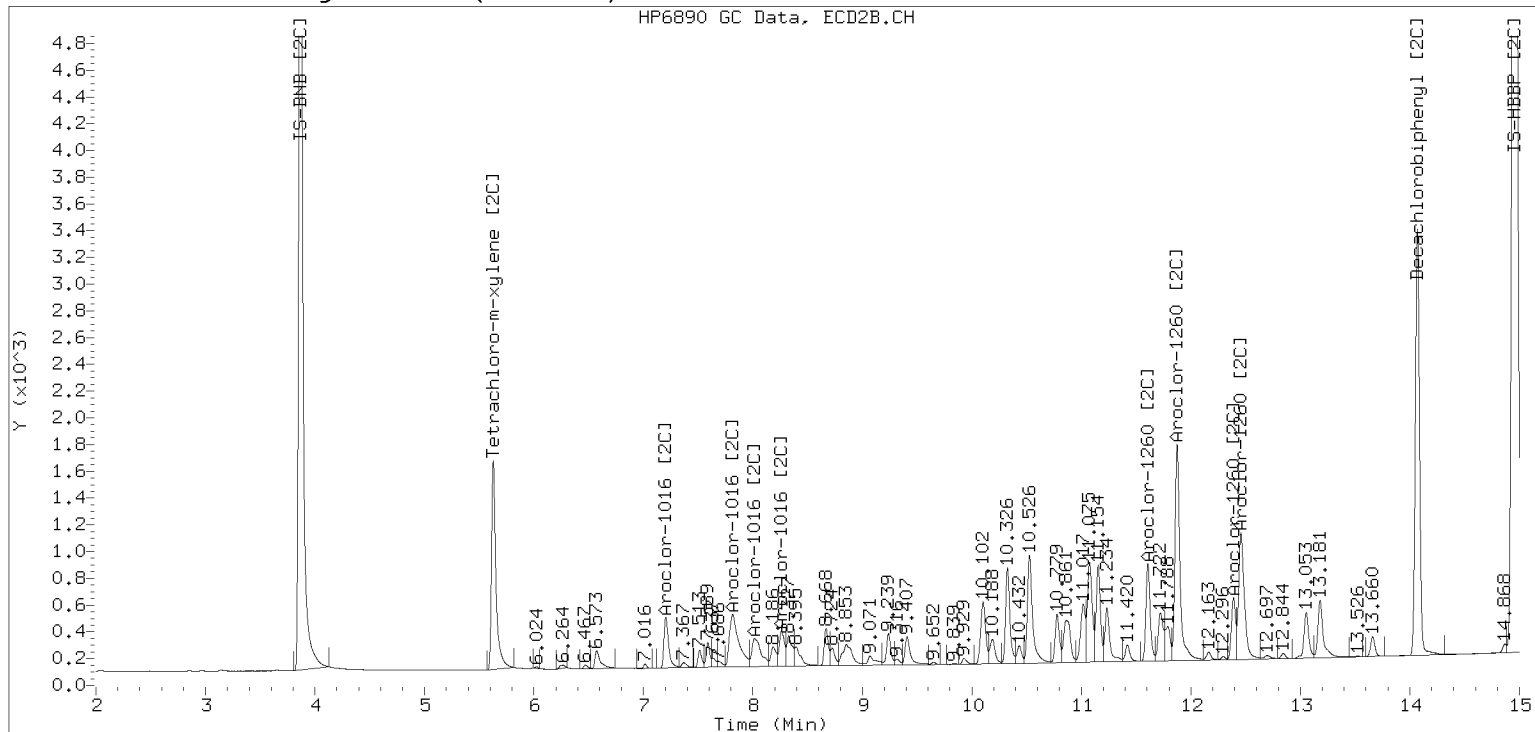
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230505.b/230505.b/05052325ECD7.D Injection Date: 06-MAY-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052326ECD7.D  
Data file 2: /230505.b/230505.b/05052326ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.5PPMAR1660  
Client ID:  
Injection Date: 06-MAY-2023 01:11  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD  | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|------|----------------------|
| 5.743  | 0.001         | 726106   | 5.629  | 0.000          | 386361   | 77.6       | 78.4        | 1.0  | Tetrachloro-m-xylene |
| 13.842 | 0.002         | 662159   | 14.070 | 0.002          | 782852   | 72.8       | 82.0        | 11.9 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 621250      | 3.3 |
| Hexabromobiphenyl  | 876625         | 910647      | 3.9 |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 358174      | 2.5 |
| Hexabromobiphenyl  | 652984         | 672444      | 3.0 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)



ZB5 Col ZB35 Col

| Aroclor                  | Peak# | RT    | Shift | Area   | Amount | Peak#                    | RT    | Shift | Area   | Amount |         |
|--------------------------|-------|-------|-------|--------|--------|--------------------------|-------|-------|--------|--------|---------|
| Aroclor-1016             | 1     | 7.212 | 0.000 | 112948 | 469.5  | 1                        | 7.204 | 0.000 | 93114  | 459.2  |         |
| Aroclor-1016             | 2     | 7.594 | 0.000 | 385708 | 512.8  | 2                        | 7.808 | 0.000 | 213293 | 493.6  |         |
| Aroclor-1016             | 3     | 7.733 | 0.000 | 163263 | 469.5  | 3                        | 8.006 | 0.000 | 90569  | 475.2  |         |
| Aroclor-1016             | 4     | 8.398 | 0.000 | 69235  | 482.6  | 4                        | 8.259 | 0.000 | 69045  | 456.1  |         |
| Total CollAve (4 peaks): |       |       |       | 483.6  |        | Total Col2Ave (4 peaks): |       |       |        | 471.0  | RPD = 3 |
| Corrected Ave (3 peaks): |       |       |       | 473.9  |        | Corrected Ave (3 peaks): |       |       |        | 463.5  | RPD = 2 |

CalAmt %D: -3.3

CalAmt %D: -5.8

|                          |   |        |       |        |       |                          |        |       |        |       |         |
|--------------------------|---|--------|-------|--------|-------|--------------------------|--------|-------|--------|-------|---------|
| Aroclor-1260             | 1 | 10.993 | 0.000 | 231157 | 480.0 | 1                        | 11.606 | 0.000 | 171304 | 479.7 |         |
| Aroclor-1260             | 2 | 11.310 | 0.000 | 230103 | 484.2 | 2                        | 11.872 | 0.000 | 454515 | 486.6 |         |
| Aroclor-1260             | 3 | 11.686 | 0.000 | 571583 | 480.2 | 3                        | 12.388 | 0.000 | 116621 | 503.8 |         |
| Aroclor-1260             | 4 | 12.090 | 0.000 | 284345 | 487.8 | 4                        | 12.455 | 0.000 | 305334 | 489.3 |         |
| Aroclor-1260             | 5 | 12.193 | 0.000 | 119534 | 470.3 | NS                       | ---    |       |        | ----  |         |
| Total CollAve (5 peaks): |   |        |       | 480.5  |       | Total Col2Ave (4 peaks): |        |       |        | 489.8 | RPD = 2 |
| Corrected Ave (4 peaks): |   |        |       | 478.7  |       | Corrected Ave (3 peaks): |        |       |        | 485.2 | RPD = 1 |

CalAmt %D: -3.9

CalAmt %D: -2.0

Total PCB Area Coll (5.842 - 13.740) = 6615607 Coll Total PCB = 1.0 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 4121423 Col2 Total PCB = 1.0 ppm\*

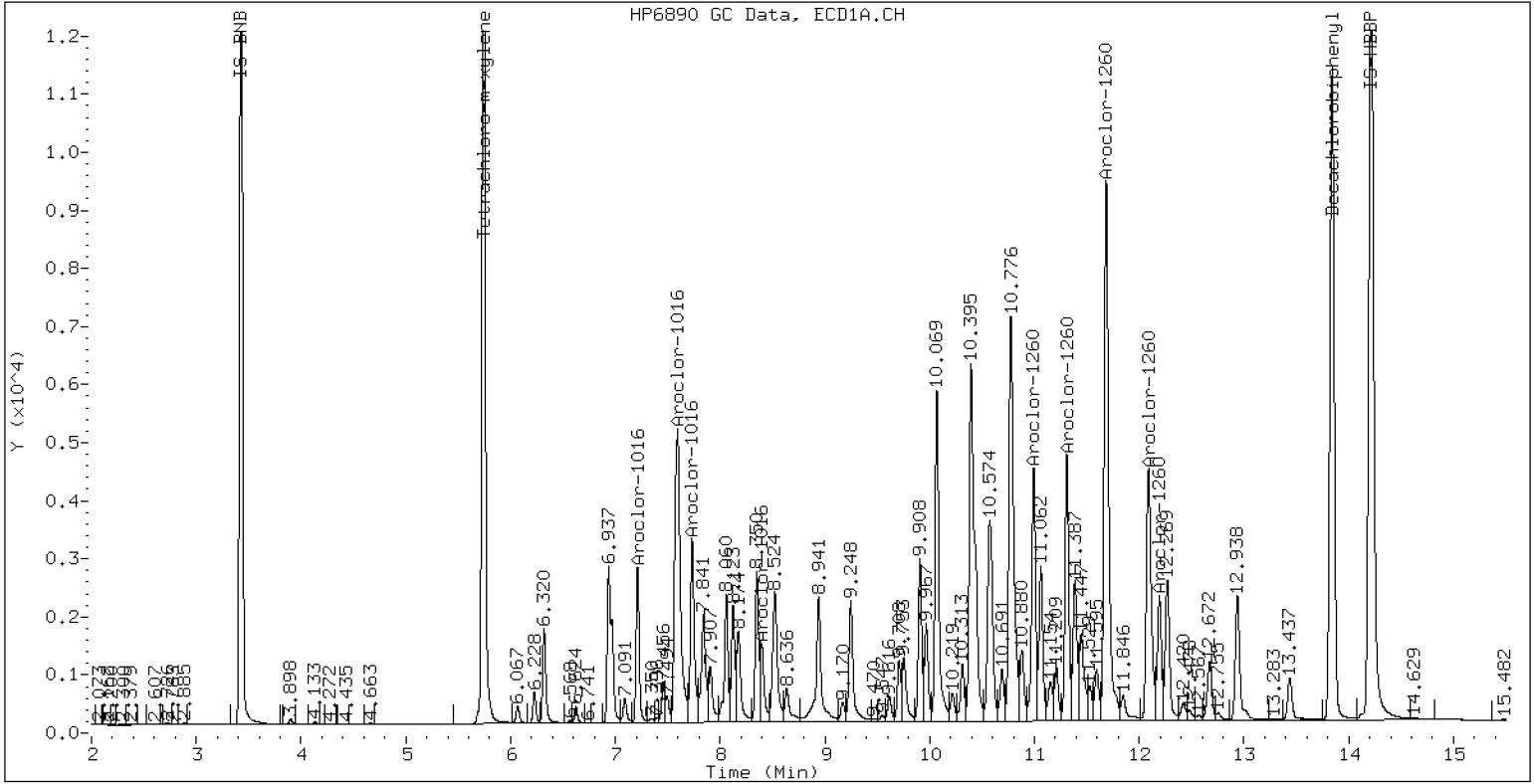
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.5PPMAR1660

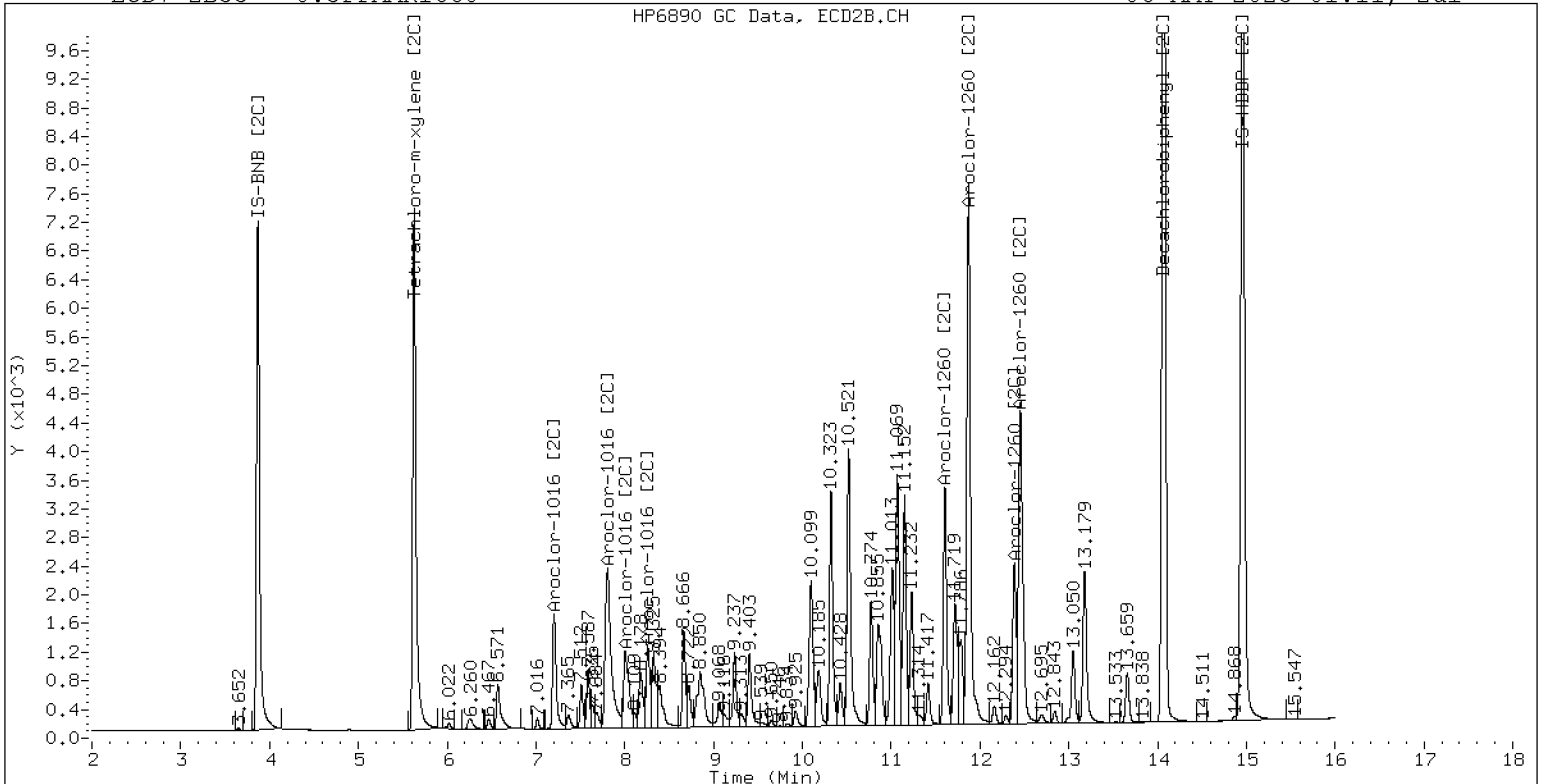
06-MAY-2023 01:11, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 0.5PPMAR1660

06-MAY-2023 01:11, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052327ECD7.D  
Data file 2: /230505.b/230505.b/05052327ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: AR1242.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.25PPMAR1242  
Client ID:  
Injection Date: 06-MAY-2023 01:31  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col<br>Shift | Response | RT     | ZB35 Col<br>Shift | Response | ZB5<br>on col | ZB35<br>on col | RPD | Compound/Flag        |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.742  | -0.000           | 447397   | 5.627  | -0.001            | 235808   | 47.5          | 47.6           | 0.3 | Tetrachloro-m-xylene |
| 13.842 | 0.001            | 336070   | 14.068 | 0.000             | 375985   | 36.4          | 38.8           | 6.2 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 625349      | 4.0 |
| Hexabromobiphenyl  | 876625         | 923197      | 5.3 |
| Column 2           |                |             |     |
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 359808      | 3.0 |
| Hexabromobiphenyl  | 652984         | 683116      | 4.6 |

\* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 05-MAY-2023

<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |       |        |                          | ZB35 Col |       |       |       |         |
|--------------------------|-------|-------|-------|--------|--------------------------|----------|-------|-------|-------|---------|
| Aroclor                  | Peak# | RT    | Shift | Area   | Amount                   | Peak#    | RT    | Shift | Area  | Amount  |
| Aroclor-1242             | 1     | 7.212 | 0.000 | 49262  | 250.0                    | 1        | 7.203 | 0.000 | 40200 | 250.0   |
| Aroclor-1242             | 2     | 7.595 | 0.000 | 156103 | 250.0                    | 2        | 7.812 | 0.000 | 85524 | 250.0   |
| Aroclor-1242             | 3     | 8.398 | 0.000 | 30193  | 250.0                    | 3        | 9.123 | 0.000 | 27418 | 250.0   |
| Aroclor-1242             | 4     | 8.525 | 0.000 | 69876  | 250.0                    | 4        | 9.550 | 0.000 | 33043 | 250.0   |
| Total CollAve (4 peaks): |       |       |       | 250.0  | Total Col2Ave (4 peaks): |          |       |       | 250.0 | RPD = 0 |
| Corrected Ave (3 peaks): |       |       |       | 250.0  | Corrected Ave (3 peaks): |          |       |       | 250.0 | RPD = 0 |

Total PCB Area Coll (5.842 - 13.740) = 1203666 Coll Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 643088 Col2 Total PCB = 0.1 ppm\*

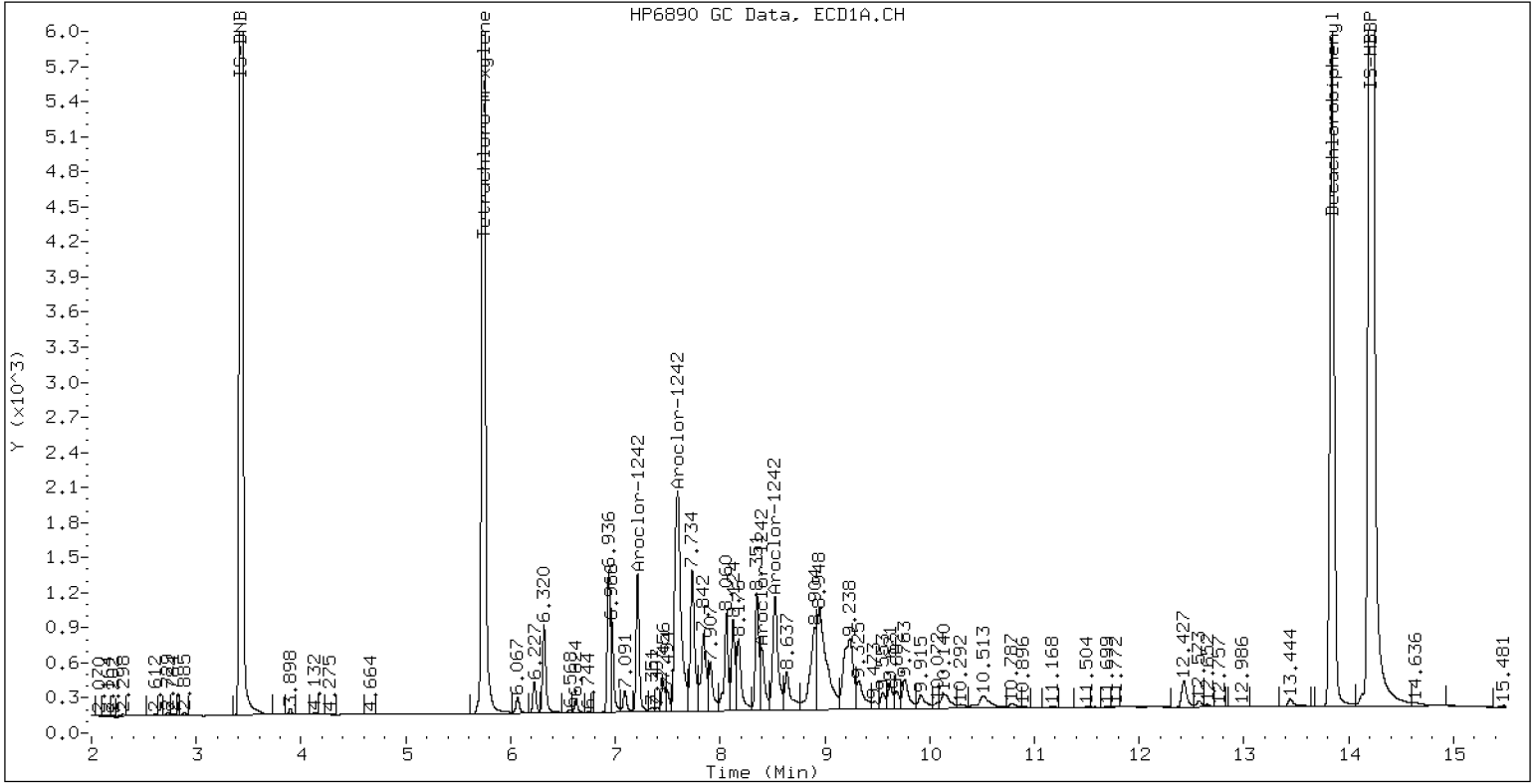
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1242

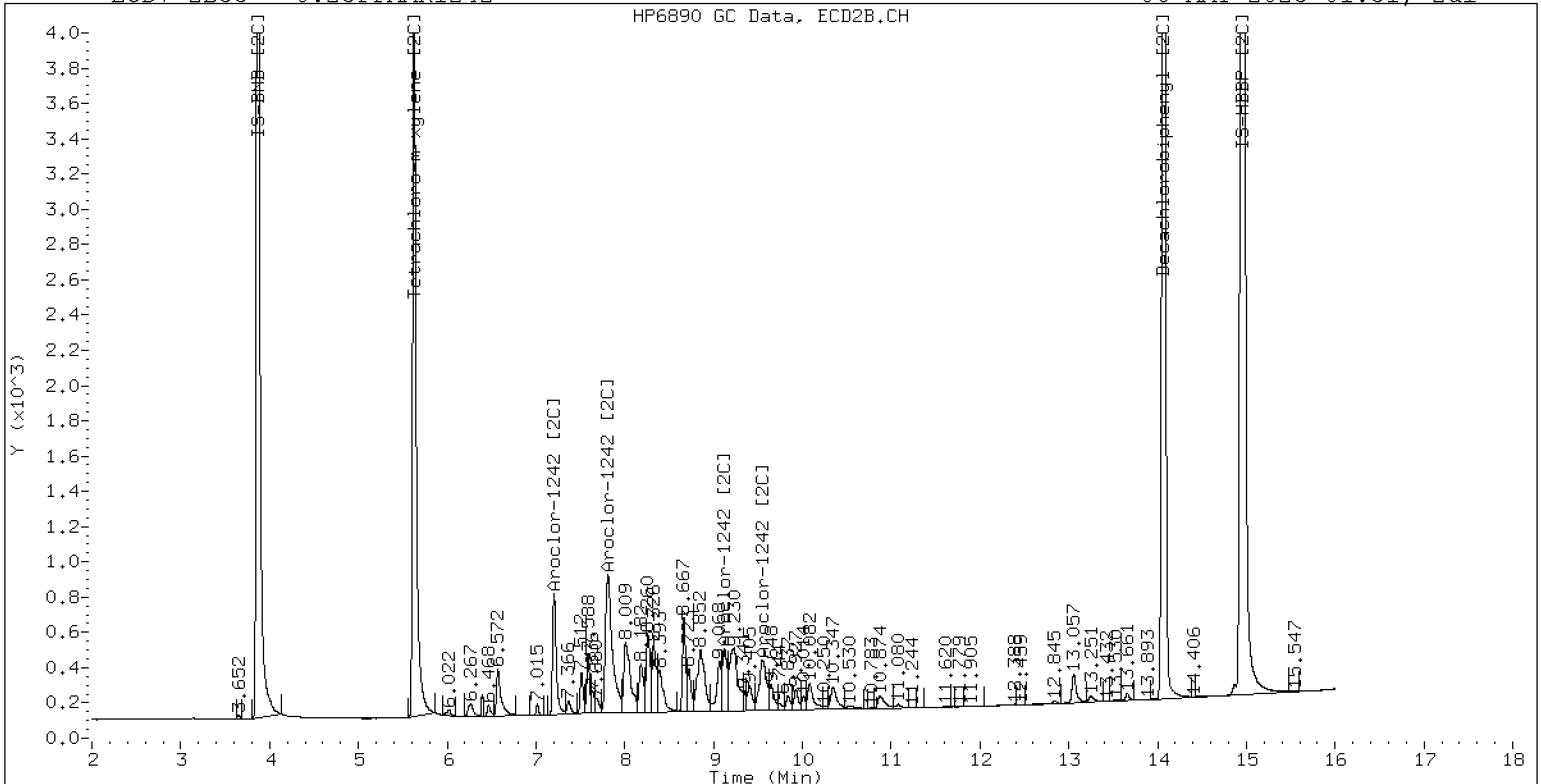
06-MAY-2023 01:31, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1242

06-MAY-2023 01:31, 2u1

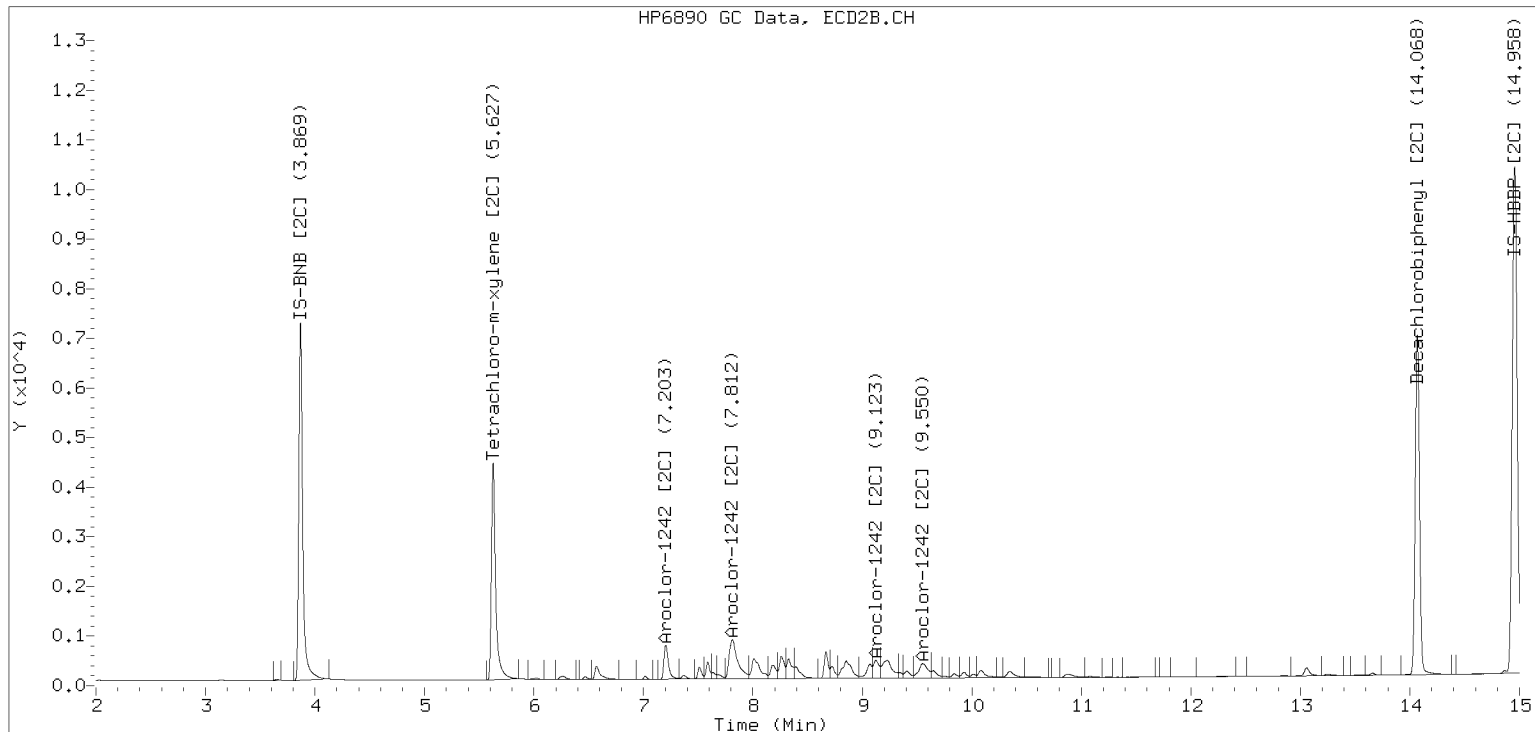


ZB-35 Manual Integration: YES

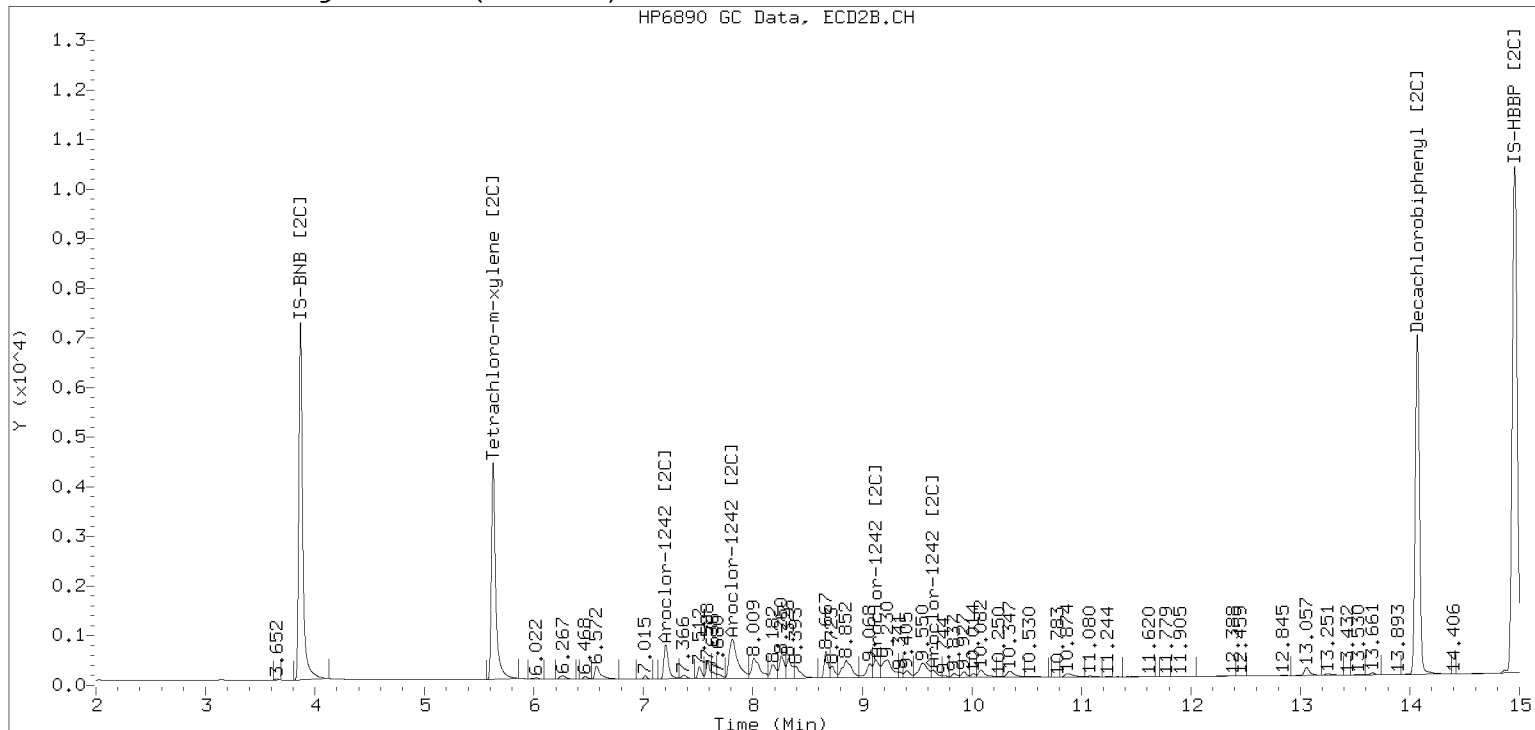
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230505.b/230505.b/05052327ECD7.D Injection Date: 06-MAY-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052328ECD7.D  
Data file 2: /230505.b/230505.b/05052328ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: AR1248.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.25PPMAR1248  
Client ID:  
Injection Date: 06-MAY-2023 01:52  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.741   | -0.001 | 363354   | 5.628  | -0.000 | 193087   | 38.8   | 39.5 | 1.9           | Tetrachloro-m-xylene |
| 13.843  | 0.003  | 347513   | 14.070 | 0.002  | 386262   | 38.0   | 40.3 | 5.9           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 621905      | 3.4 |
| Hexabromobiphenyl  | 876625         | 915805      | 4.5 |

| Column 2           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 354920      | 1.6 |
| Hexabromobiphenyl  | 652984         | 674778      | 3.3 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col ZB35 Col

| Aroclor                  | Peak# | RT    | Shift | Area   | Amount                   | Peak# | RT    | Shift | Area  | Amount  |
|--------------------------|-------|-------|-------|--------|--------------------------|-------|-------|-------|-------|---------|
| Aroclor-1248             | 1     | 8.399 | 0.000 | 39684  | 250.0                    | 1     | 8.260 | 0.000 | 42211 | 250.0   |
| Aroclor-1248             | 2     | 8.524 | 0.000 | 103126 | 250.0                    | 2     | 8.667 | 0.000 | 44588 | 250.0   |
| Aroclor-1248             | 3     | 8.944 | 0.000 | 198327 | 250.0                    | 3     | 9.120 | 0.000 | 52266 | 250.0   |
| Aroclor-1248             | 4     | 9.243 | 0.000 | 101099 | 250.0                    | 4     | 9.546 | 0.000 | 62674 | 250.0   |
| Total Col1Ave (4 peaks): |       |       |       | 250.0  | Total Col2Ave (4 peaks): |       |       |       | 250.0 | RPD = 0 |
| Corrected Ave (3 peaks): |       |       |       | 250.0  | Corrected Ave (3 peaks): |       |       |       | 250.0 | RPD = 0 |

Total PCB Area Col1 (5.842 - 13.740) = 1607435 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 866525 Col2 Total PCB = 0.2 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

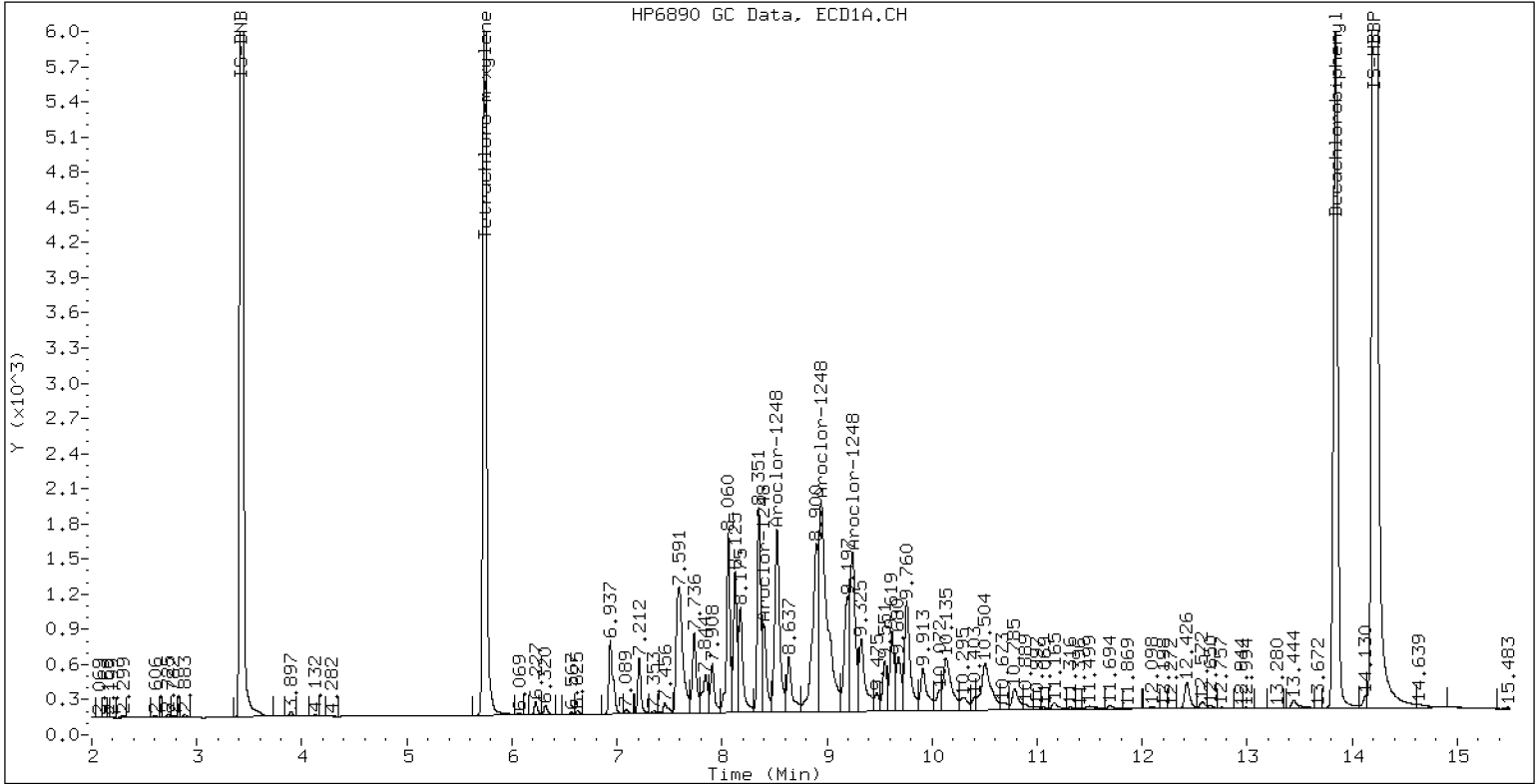
PCB-Form 10 Mod.



# PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1248

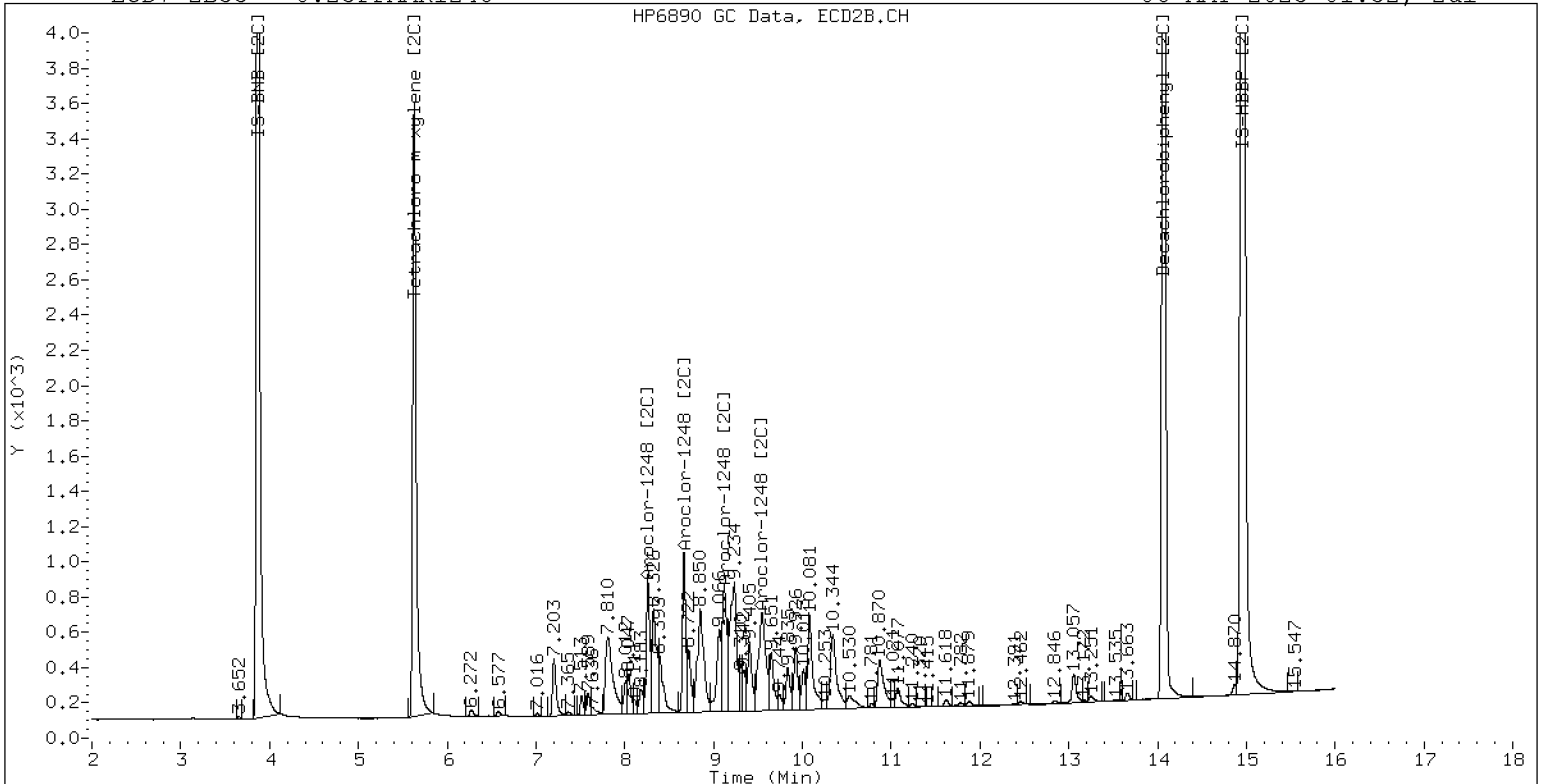
06-MAY-2023 01:52, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1248

06-MAY-2023 01:52, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052329ECD7.D  
Data file 2: /230505.b/230505.b/05052329ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: AR1254.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.25PPMAR1254  
Client ID:  
Injection Date: 06-MAY-2023 02:13  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col<br>Shift | Response | RT     | ZB35 Col<br>Shift | Response | ZB5<br>on col | ZB35<br>on col | RPD | Compound/Flag        |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.742  | 0.000            | 357984   | 5.629  | 0.001             | 190255   | 37.8          | 38.5           | 1.8 | Tetrachloro-m-xylene |
| 13.842 | 0.002            | 347079   | 14.071 | 0.002             | 385540   | 37.4          | 39.8           | 6.1 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 628765      | 4.5 |
| Hexabromobiphenyl  | 876625         | 929076      | 6.0 |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 359470      | 2.9 |
| Hexabromobiphenyl  | 652984         | 682882      | 4.6 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |       |        | ZB35 Col |                          |        |       |        |        |         |
|--------------------------|-------|--------|-------|--------|----------|--------------------------|--------|-------|--------|--------|---------|
| Aroclor                  | Peak# | RT     | Shift | Area   | Amount   | Peak#                    | RT     | Shift | Area   | Amount |         |
| Aroclor-1254             | 1     | 9.246  | 0.000 | 161557 | 250.0    | 1                        | 9.404  | 0.000 | 68278  | 250.0  |         |
| Aroclor-1254             | 2     | 9.325  | 0.000 | 72588  | 250.0    | 2                        | 9.499  | 0.000 | 40561  | 250.0  |         |
| Aroclor-1254             | 3     | 9.618  | 0.000 | 104295 | 250.0    | 3                        | 9.924  | 0.000 | 55343  | 250.0  |         |
| Aroclor-1254             | 4     | 9.756  | 0.000 | 204288 | 250.0    | 4                        | 10.078 | 0.000 | 120775 | 250.0  |         |
| Aroclor-1254             | 5     | 10.126 | 0.000 | 123377 | 250.0    | 5                        | 10.328 | 0.000 | 119827 | 250.0  |         |
| Total CollAve (5 peaks): |       |        |       | 250.0  |          | Total Col2Ave (5 peaks): |        |       |        | 250.0  | RPD = 0 |
| Corrected Ave (4 peaks): |       |        |       | 250.0  |          | Corrected Ave (4 peaks): |        |       |        | 250.0  | RPD = 0 |

Total PCB Area Coll (5.842 - 13.740) = 2115446 Coll Total PCB = 0.3 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 1173654 Col2 Total PCB = 0.3 ppm\*

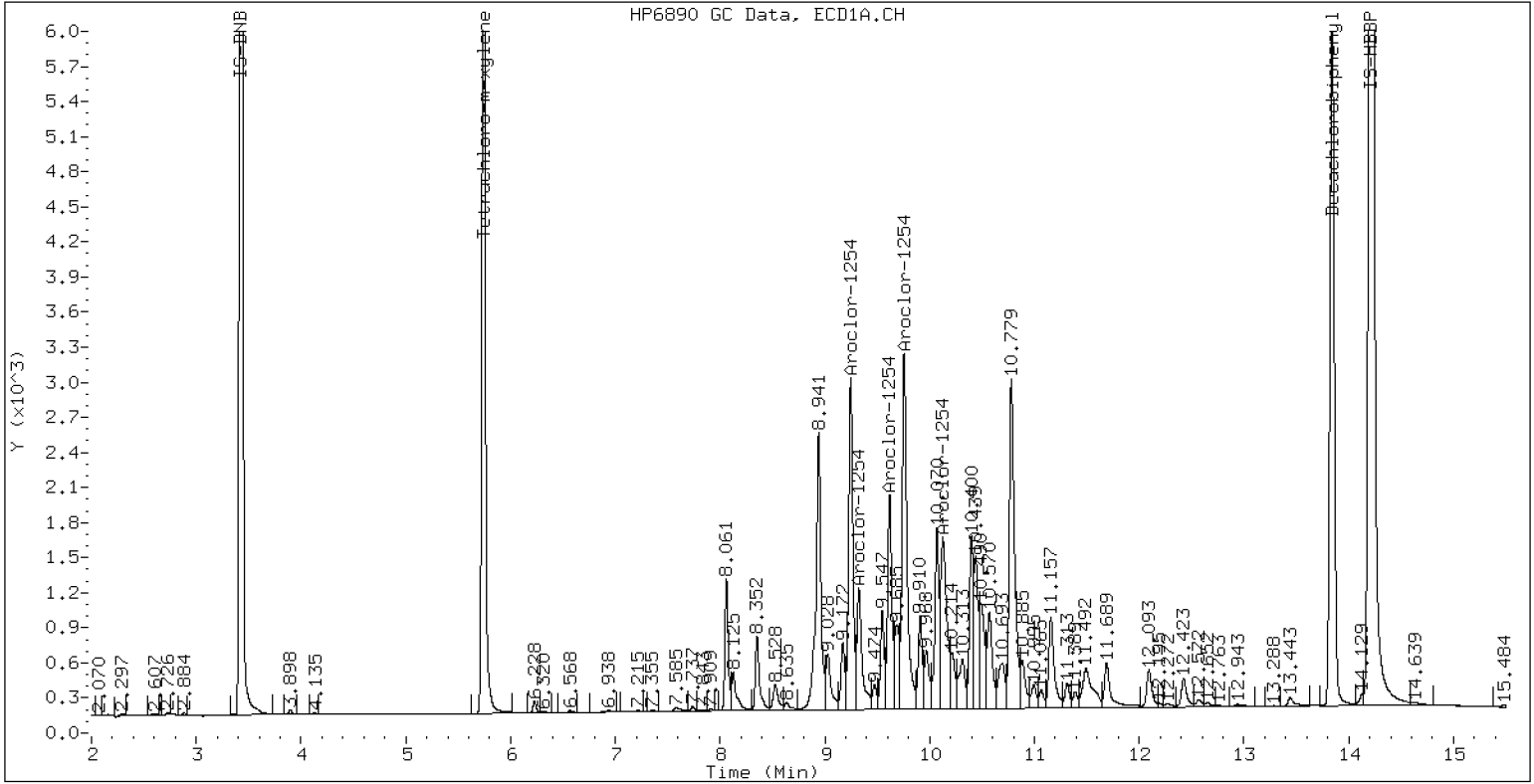
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1254

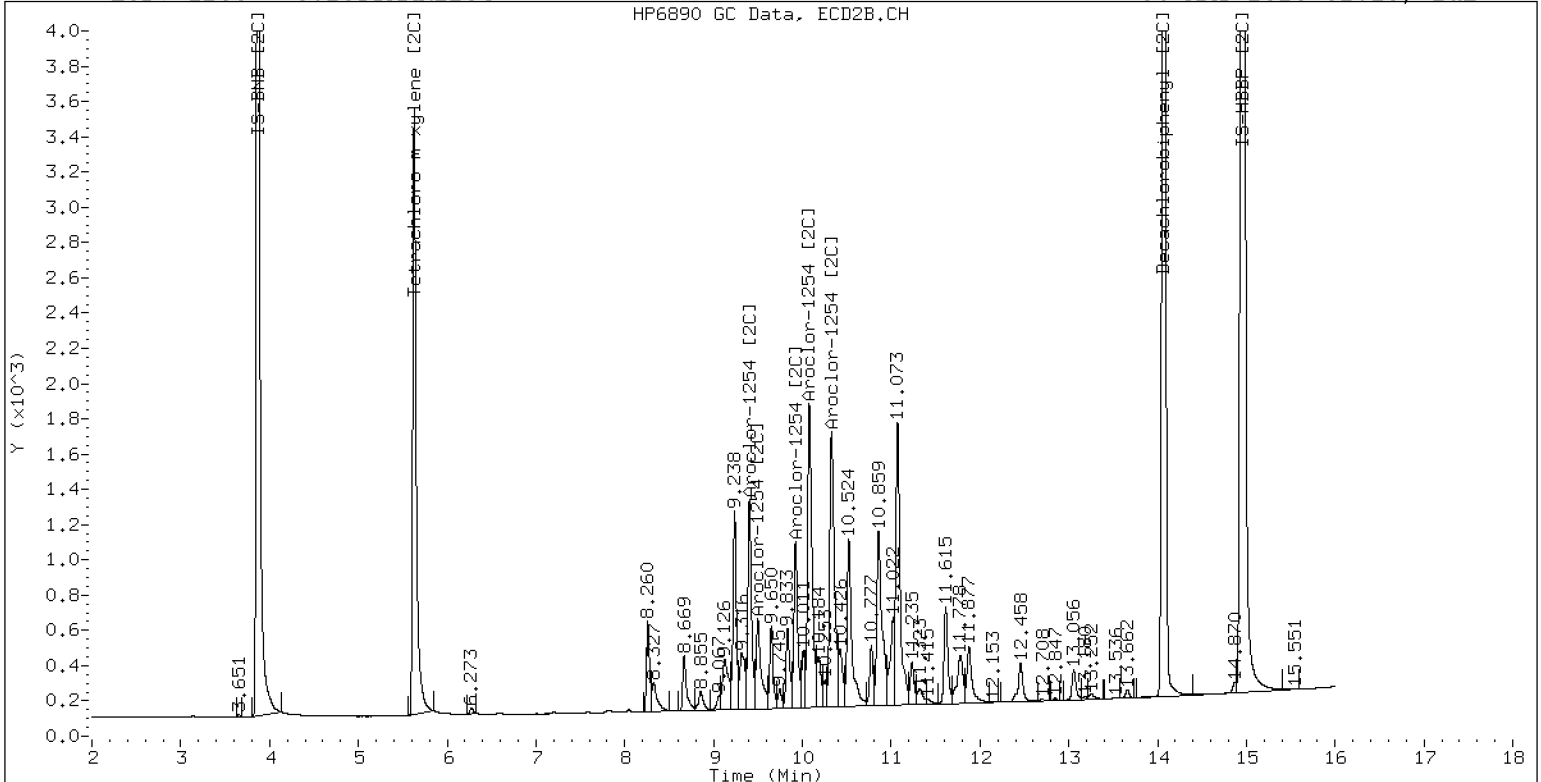
06-MAY-2023 02:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1254

06-MAY-2023 02:13, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052330ECD7.D  
Data file 2: /230505.b/230505.b/05052330ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: AR2162.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.25PPMAR2162  
Client ID:  
Injection Date: 06-MAY-2023 02:34  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.742  | -0.000        | 379099   | 5.628  | 0.000          | 200082   | 39.7       | 40.8        | 2.7 | Tetrachloro-m-xylene |
| 13.842 | 0.001         | 358012   | 14.071 | 0.003          | 396142   | 38.1       | 40.5        | 6.1 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 634497      | 5.5 |
| Hexabromobiphenyl  | 876625         | 940541      | 7.3 |

| Column 2           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 356713      | 2.1 |
| Hexabromobiphenyl  | 652984         | 688599      | 5.5 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |       |       | ZB35 Col |                          |       |       |       |               |
|--------------------------|-------|-------|-------|-------|----------|--------------------------|-------|-------|-------|---------------|
| Aroclor                  | Peak# | RT    | Shift | Area  | Amount   | Peak#                    | RT    | Shift | Area  | Amount        |
| Aroclor-1221             | 1     | 4.663 | 0.000 | 11156 | 250.0    | 1                        | 4.894 | 0.000 | 6578  | 250.0         |
| Aroclor-1221             | 2     | 6.069 | 0.000 | 22382 | 250.0    | 2                        | 6.245 | 0.000 | 13633 | 250.0         |
| Aroclor-1221             | 3     | 6.321 | 0.000 | 53161 | 250.0    | 3                        | 6.572 | 0.000 | 21443 | 250.0         |
| Total CollAve (3 peaks): |       |       |       | 250.0 |          | Total Col2Ave (3 peaks): |       |       |       | 250.0 RPD = 0 |
| Corrected Ave: < 3 Peaks |       |       |       |       |          | Corrected Ave: < 3 Peaks |       |       |       |               |

|                          |   |        |       |        |       |                          |        |       |        |               |
|--------------------------|---|--------|-------|--------|-------|--------------------------|--------|-------|--------|---------------|
| Aroclor-1262             | 1 | 10.779 | 0.000 | 106373 | 250.0 | 1                        | 11.153 | 0.000 | 139491 | 250.0         |
| Aroclor-1262             | 2 | 12.195 | 0.000 | 149596 | 250.0 | 2                        | 11.605 | 0.000 | 117643 | 250.0         |
| Aroclor-1262             | 3 | 12.269 | 0.000 | 160810 | 250.0 | 3                        | 12.386 | 0.000 | 128556 | 250.0         |
| Aroclor-1262             | 4 | 12.939 | 0.000 | 131044 | 250.0 | 4                        | 12.456 | 0.000 | 209520 | 250.0         |
| Total CollAve (4 peaks): |   |        |       | 250.0  |       | Total Col2Ave (4 peaks): |        |       |        | 250.0 RPD = 0 |
| Corrected Ave (3 peaks): |   |        |       | 250.0  |       | Corrected Ave (3 peaks): |        |       |        | 250.0 RPD = 0 |

Total PCB Area Coll (5.842 - 13.740) = 2742242 Coll Total PCB = 0.4 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 1852573 Col2 Total PCB = 0.4 ppm\*

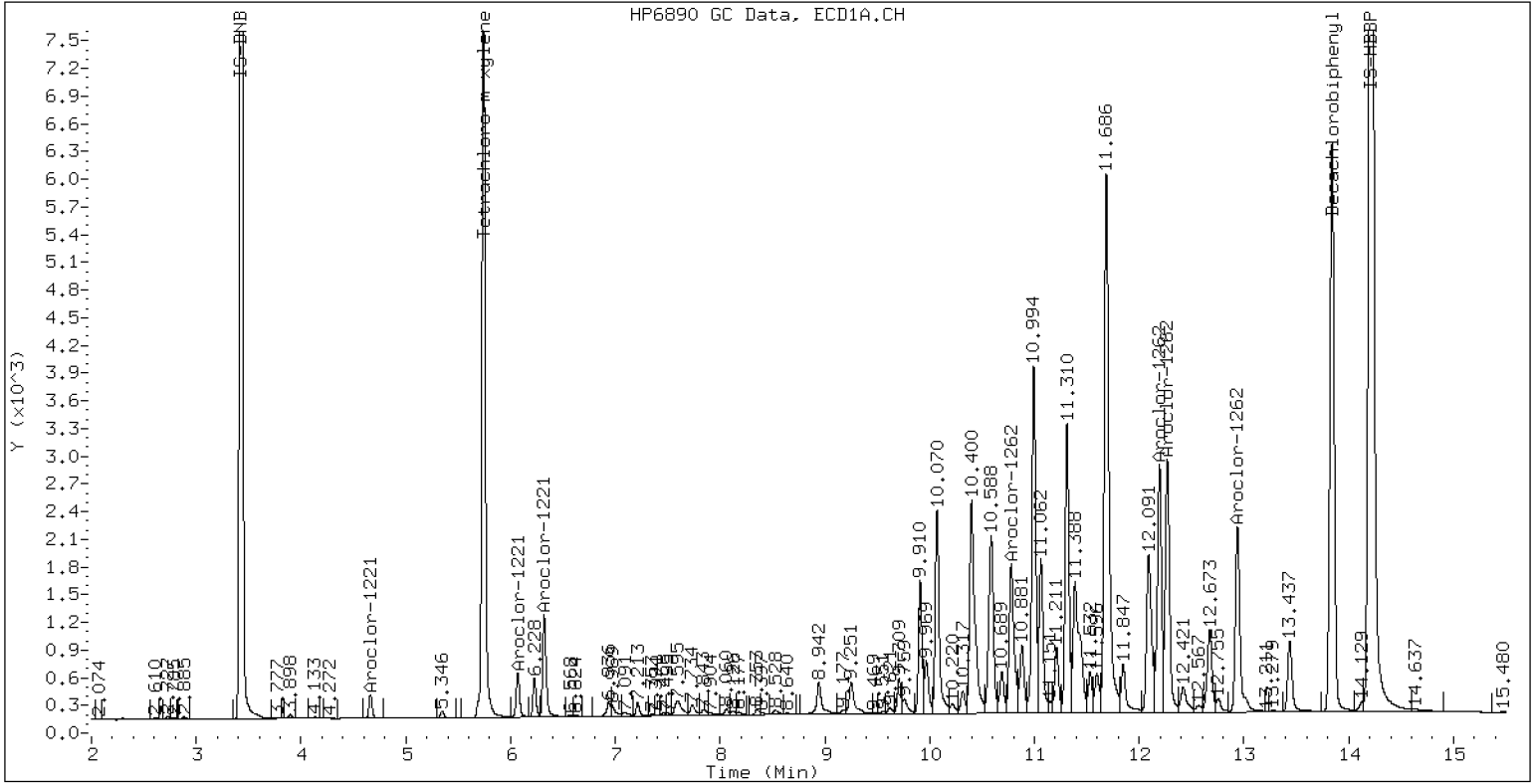
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR2162

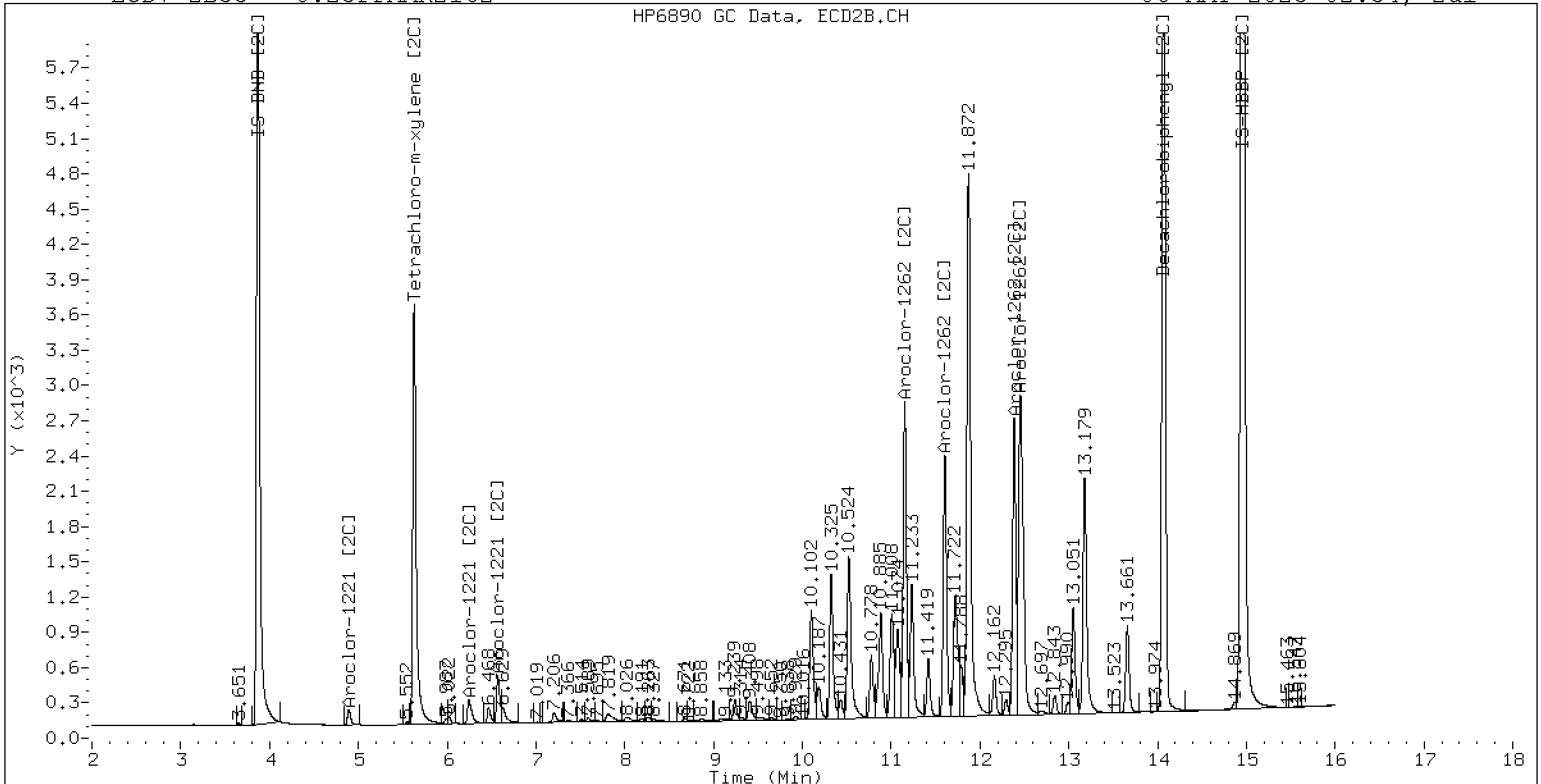
06-MAY-2023 02:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR2162

06-MAY-2023 02:34, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052331ECD7.D  
Data file 2: /230505.b/230505.b/05052331ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: AR3268.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.25PPMAR3268  
Client ID:  
Injection Date: 06-MAY-2023 02:55  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.742  | 0.000         | 378314   | 5.628  | 0.000          | 200538   | 38.9       | 40.3        | 3.4 | Tetrachloro-m-xylene |
| 13.840 | 0.000         | 502472   | 14.068 | 0.000          | 573501   | 52.2       | 57.3        | 9.3 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 644974      | 7.2 |
| Hexabromobiphenyl  | 876625         | 963091      | 9.9 |
| Column 2           |                |             |     |
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 361821      | 3.6 |
| Hexabromobiphenyl  | 652984         | 704753      | 7.9 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                  |       |        |       |        |        | ZB35 Col                 |        |       |        |               |
|--------------------------|-------|--------|-------|--------|--------|--------------------------|--------|-------|--------|---------------|
| Aroclor                  | Peak# | RT     | Shift | Area   | Amount | Peak#                    | RT     | Shift | Area   | Amount        |
| Aroclor-1232             | 1     | 4.664  | 0.000 | 7554   | 250.0  | 1                        | 4.894  | 0.000 | 3508   | 250.0         |
| Aroclor-1232             | 2     | 6.069  | 0.000 | 15718  | 250.0  | 2                        | 7.205  | 0.000 | 20084  | 250.0         |
| Aroclor-1232             | 3     | 7.595  | 0.000 | 74881  | 250.0  | 3                        | 7.815  | 0.000 | 40344  | 250.0         |
| Aroclor-1232             | 4     | 8.527  | 0.000 | 32051  | 250.0  | 4                        | 8.669  | 0.000 | 11684  | 250.0         |
| Total CollAve (4 peaks): |       |        |       | 250.0  |        | Total Col2Ave (4 peaks): |        |       |        | 250.0 RPD = 0 |
| Corrected Ave (3 peaks): |       |        |       | 250.0  |        | Corrected Ave (3 peaks): |        |       |        | 250.0 RPD = 0 |
|                          |       |        |       |        |        |                          |        |       |        |               |
| Aroclor-1268             | 1     | 12.196 | 0.000 | 384005 | 250.0  | 1                        | 12.385 | 0.000 | 333421 | 250.0         |
| Aroclor-1268             | 2     | 12.268 | 0.000 | 381367 | 250.0  | 2                        | 12.452 | 0.000 | 358458 | 250.0         |
| Aroclor-1268             | 3     | 12.648 | 0.000 | 306717 | 250.0  | 3                        | 12.843 | 0.000 | 306959 | 250.0         |
| Aroclor-1268             | 4     | 13.437 | 0.000 | 875751 | 250.0  | 4                        | 13.663 | 0.000 | 983908 | 250.0         |
| Total CollAve (4 peaks): |       |        |       | 250.0  |        | Total Col2Ave (4 peaks): |        |       |        | 250.0 RPD = 0 |
| Corrected Ave (3 peaks): |       |        |       | 250.0  |        | Corrected Ave (3 peaks): |        |       |        | 250.0 RPD = 0 |

Total PCB Area Coll (5.842 - 13.740) = 3124318 Coll Total PCB = 0.4 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 2731202 Col2 Total PCB = 0.6 ppm\*

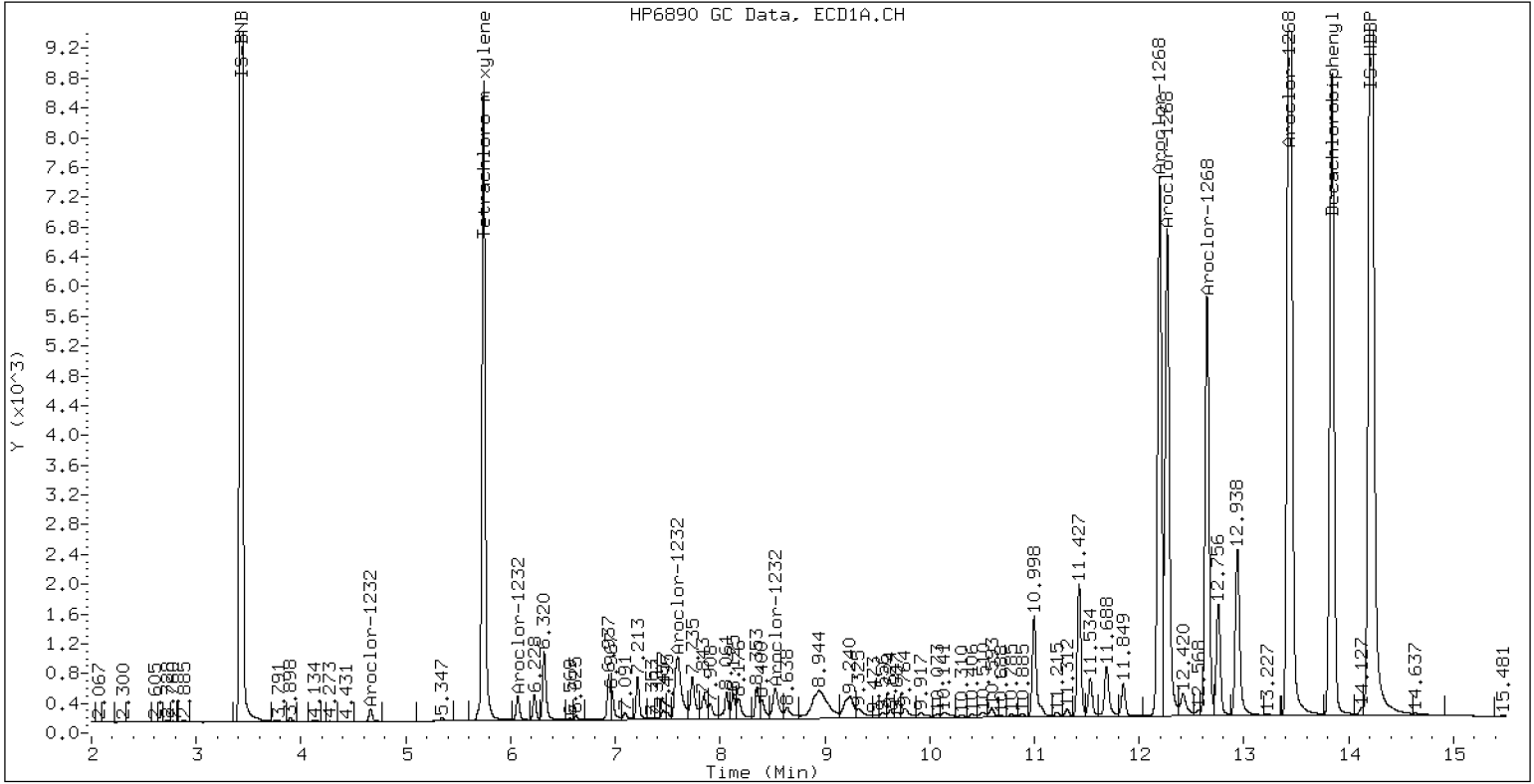
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR3268

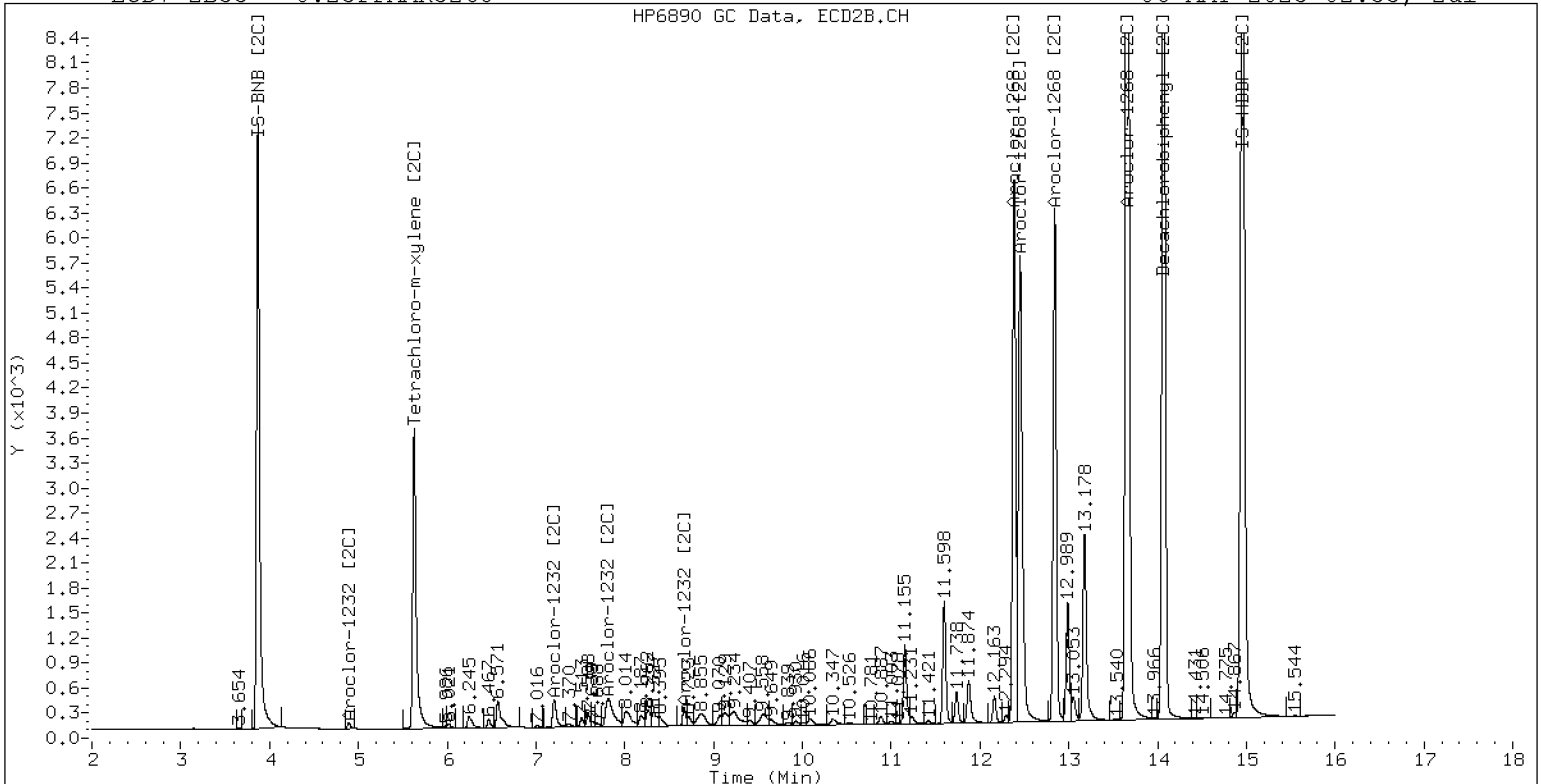
06-MAY-2023 02:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR3268

06-MAY-2023 02:55, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052332ECD7.D  
Data file 2: /230505.b/230505.b/05052332ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660SCV  
Client ID:  
Injection Date: 06-MAY-2023 03:16  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |       | ZB5    | ZB35     | RPD  | Compound/Flag |      |                      |
|---------|--------|----------|-------|--------|----------|------|---------------|------|----------------------|
| RT      | Shift  | Response | RT    | Shift  | Response |      |               |      |                      |
| 5.742   | -0.000 | 356595   | 9.840 | -0.028 | 300      | 36.9 | 0.0           | ---- | Tetrachloro-m-xylene |
| 13.842  | 0.002  | 347188   | 9.537 | 0.045  | 1824     | 36.9 | 0.0           | ---- | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D  |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area |     |
| Bromo-Nitrobenzene | 601474         | 642284      | 6.8 |
| Hexabromobiphenyl  | 876625         | 941356      | 7.4 |

| Standard Cpnd      | Column 2       |             | %D  |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area |     |
| Bromo-Nitrobenzene | 349289         | 361711      | 3.6 |
| Hexabromobiphenyl  | 652984         | 690563      | 5.8 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |        |                 |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|-----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area   | Amount          |
| Aroclor-1016             | 1     | 7.213  | 0.000  | 61654  | 247.9    | 1                        | 7.205  | 0.001  | 50106  | 244.7           |
| Aroclor-1016             | 2     | 7.594  | -0.001 | 199228 | 256.2    | 2                        | 7.811  | 0.003  | 109839 | 251.7           |
| Aroclor-1016             | 3     | 7.734  | 0.001  | 89643  | 249.3    | 3                        | 8.009  | 0.004  | 48594  | 252.5           |
| Aroclor-1016             | 4     | 8.399  | 0.001  | 38714  | 261.0    | 4                        | 8.260  | 0.001  | 36878  | 241.2           |
| Total CollAve (4 peaks): |       |        |        | 253.6  |          | Total Col2Ave (4 peaks): |        |        |        | 247.5 RPD = 2   |
| Corrected Ave (3 peaks): |       |        |        | 251.1  |          | Corrected Ave (3 peaks): |        |        |        | 245.9 RPD = 2   |
| Aroclor-1221             | 1     | 4.663  | -0.000 | 436    | 9.7      | 1                        | ---    |        |        | 0.0             |
| Aroclor-1221             | 2     | 6.068  | -0.001 | 8521   | 94.0     | 2                        | 6.251  | 0.005  | 5766   | 104.3           |
| Aroclor-1221             | 3     | 6.320  | -0.001 | 41973  | 195.0    | 3                        | 6.572  | 0.000  | 23212  | 266.9           |
| Total CollAve (3 peaks): |       |        |        | 99.6   |          | Col2Ave: <3 Quant Peaks  |        |        |        |                 |
| Aroclor-1232             | 1     | 4.663  | -0.000 | 436    | 14.5     | 1                        | ---    |        |        | 0.0             |
| Aroclor-1232             | 2     | 6.068  | -0.002 | 8521   | 136.1    | 2                        | 7.205  | 0.000  | 50106  | 623.9           |
| Aroclor-1232             | 3     | 7.594  | -0.001 | 199228 | 667.9    | 3                        | 7.811  | -0.004 | 109839 | 680.8           |
| Aroclor-1232             | 4     | 8.526  | -0.001 | 85985  | 673.5    | 4                        | 8.667  | -0.003 | 34670  | 742.1           |
| Total CollAve (4 peaks): |       |        |        | 373.0  |          | Total Col2Ave (3 peaks): |        |        |        | 682.3 RPD = 59* |
| Corrected Ave (3 peaks): |       |        |        | 272.8  |          | Corrected Ave: < 3 Peaks |        |        |        |                 |
| Aroclor-1242             | 1     | 7.213  | 0.001  | 61654  | 304.6    | 1                        | 7.205  | 0.001  | 50106  | 310.0           |
| Aroclor-1242             | 2     | 7.594  | -0.001 | 199228 | 310.7    | 2                        | 7.811  | -0.002 | 109839 | 319.4           |
| Aroclor-1242             | 3     | 8.399  | 0.000  | 38714  | 312.1    | 3                        | 9.069  | -0.054 | 21513  | 195.1           |
| Aroclor-1242             | 4     | 8.526  | 0.001  | 85985  | 299.5    | 4                        | 9.650  | 0.100  | 1501   | 11.3            |
| Total CollAve (4 peaks): |       |        |        | 306.7  |          | Total Col2Ave (4 peaks): |        |        |        | 208.9 RPD = 38  |
| Corrected Ave (3 peaks): |       |        |        | 304.9  |          | Corrected Ave (3 peaks): |        |        |        | 172.1 RPD = 56* |
| Aroclor-1248             | 1     | 8.399  | -0.000 | 38714  | 236.2    | 1                        | 8.260  | 0.000  | 36878  | 214.3           |
| Aroclor-1248             | 2     | 8.526  | 0.001  | 85985  | 201.8    | 2                        | 8.667  | -0.001 | 34670  | 190.7           |
| Aroclor-1248             | 3     | 8.941  | -0.003 | 81615  | 99.6     | 3                        | 9.069  | -0.051 | 21513  | 101.0           |
| Aroclor-1248             | 4     | 9.249  | 0.006  | 52526  | 125.8    | 4                        | 9.537  | -0.008 | 1824   | 7.1             |
| Total CollAve (4 peaks): |       |        |        | 165.8  |          | Total Col2Ave (4 peaks): |        |        |        | 128.3 RPD = 26  |
| Corrected Ave (3 peaks): |       |        |        | 142.4  |          | Corrected Ave (3 peaks): |        |        |        | 99.6 RPD = 35   |
| Aroclor-1254             | 1     | 9.249  | 0.003  | 52526  | 79.6     | 1                        | 9.405  | 0.001  | 24726  | 90.0            |
| Aroclor-1254             | 2     | ---    |        |        | 0.0      | 2                        | 9.537  | 0.038  | 1824   | 11.2            |
| Aroclor-1254             | 3     | 9.619  | 0.001  | 7081   | 16.6     | 3                        | 9.926  | 0.002  | 3128   | 14.0            |
| Aroclor-1254             | 4     | 9.756  | 0.001  | 21856  | 26.2     | 4                        | 10.101 | 0.023  | 62581  | 128.7           |
| Aroclor-1254             | 5     | 10.069 | -0.057 | 159796 | 317.0    | 5                        | 10.324 | -0.004 | 85433  | 177.1           |
| Total CollAve (4 peaks): |       |        |        | 109.8  |          | Total Col2Ave (5 peaks): |        |        |        | 84.2 RPD = 26   |
| Corrected Ave (3 peaks): |       |        |        | 40.8   |          | Corrected Ave (4 peaks): |        |        |        | 61.0 RPD = 40   |
| Aroclor-1260             | 1     | 10.995 | 0.001  | 145767 | 292.8    | 1                        | 11.605 | -0.000 | 99761  | 272.0           |
| Aroclor-1260             | 2     | 11.311 | 0.001  | 142028 | 289.1    | 2                        | 11.872 | 0.000  | 273505 | 285.1           |
| Aroclor-1260             | 3     | 11.686 | 0.000  | 354468 | 288.1    | 3                        | 12.389 | 0.001  | 70545  | 296.8           |
| Aroclor-1260             | 4     | 12.092 | 0.002  | 161281 | 267.6    | 4                        | 12.455 | -0.000 | 180783 | 282.1           |
| Aroclor-1260             | 5     | 12.194 | 0.001  | 76105  | 289.6    | NS                       | ---    |        |        | ----            |
| Total CollAve (5 peaks): |       |        |        | 285.5  |          | Total Col2Ave (4 peaks): |        |        |        | 284.0 RPD = 1   |
| Corrected Ave (4 peaks): |       |        |        | 283.6  |          | Corrected Ave (3 peaks): |        |        |        | 279.8 RPD = 1   |
| Aroclor-1262             | 1     | 10.777 | -0.001 | 215850 | 506.9    | 1                        | 11.153 | -0.001 | 104059 | 186.0           |
| Aroclor-1262             | 2     | 12.194 | -0.000 | 76105  | 127.1    | 2                        | 11.605 | 0.001  | 99761  | 211.4           |
| Aroclor-1262             | 3     | 12.271 | 0.001  | 94628  | 147.0    | 3                        | 12.389 | 0.003  | 70545  | 136.8           |
| Aroclor-1262             | 4     | 12.939 | -0.000 | 78852  | 150.3    | 4                        | 12.455 | -0.001 | 180783 | 215.1           |
| Total CollAve (4 peaks): |       |        |        | 232.8  |          | Total Col2Ave (4 peaks): |        |        |        | 187.3 RPD = 22  |
| Corrected Ave (3 peaks): |       |        |        | 141.5  |          | Corrected Ave (3 peaks): |        |        |        | 178.1 RPD = 23  |
| Aroclor-1268             | 1     | 12.194 | -0.001 | 76105  | 50.7     | 1                        | 12.389 | 0.004  | 70545  | 54.0            |
| Aroclor-1268             | 2     | 12.271 | 0.003  | 94628  | 63.5     | 2                        | 12.455 | 0.003  | 180783 | 128.7           |
| Aroclor-1268             | 3     | 12.675 | 0.026  | 38830  | 32.4     | 3                        | 12.844 | 0.001  | 3082   | 2.6             |
| Aroclor-1268             | 4     | 13.440 | 0.003  | 19986  | 5.8      | 4                        | 13.661 | -0.002 | 14882  | 3.9             |
| Total CollAve (4 peaks): |       |        |        | 38.1   |          | Total Col2Ave (4 peaks): |        |        |        | 47.3 RPD = 21   |
| Corrected Ave (3 peaks): |       |        |        | 29.6   |          | Corrected Ave (3 peaks): |        |        |        | 20.1 RPD = 38   |

Total PCB Area Col1 (5.842 - 13.740) = 3657118 Col1 Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.842 - 13.740) = 2240312 Col2 Total PCB = 0.5 ppm\*

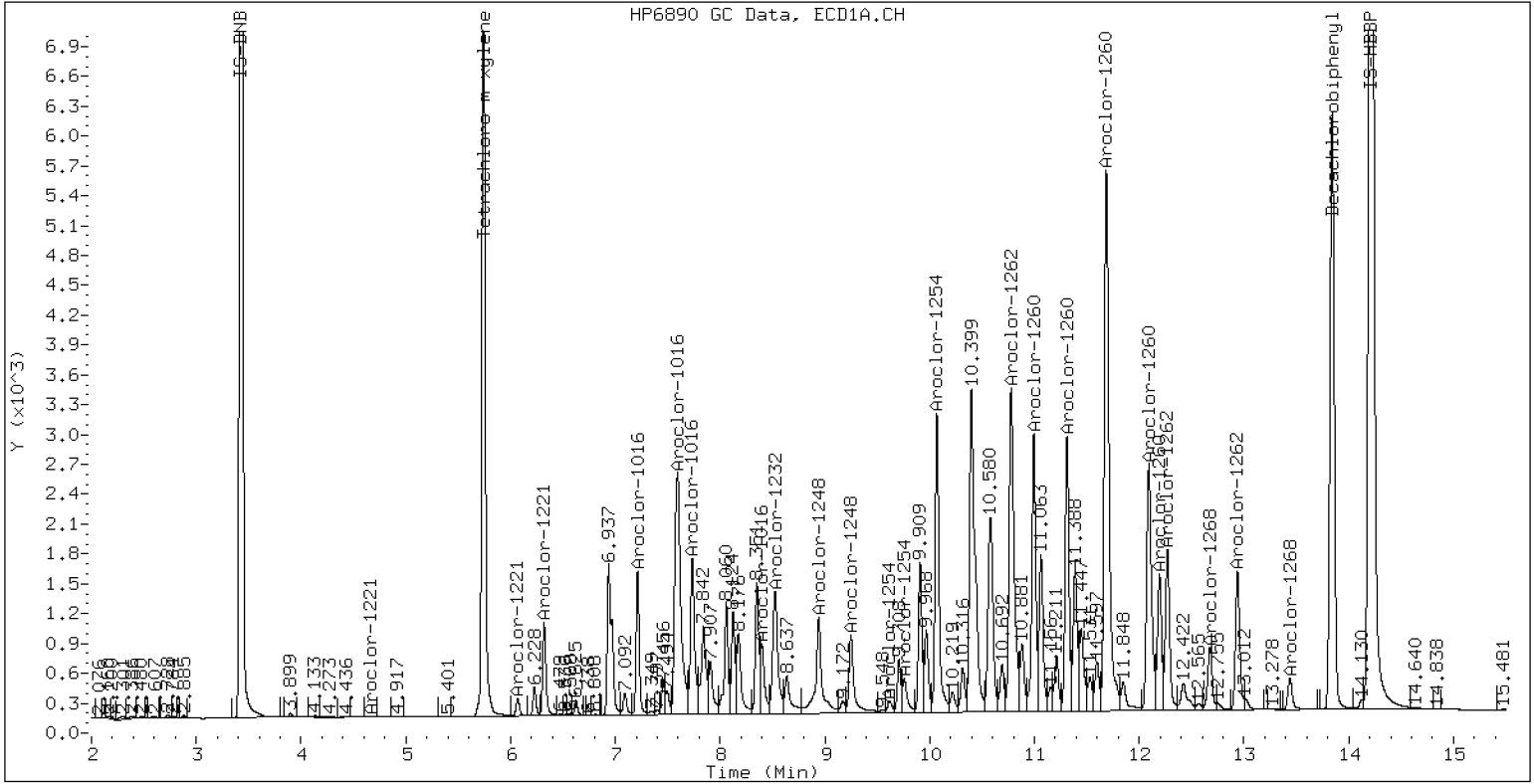
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV

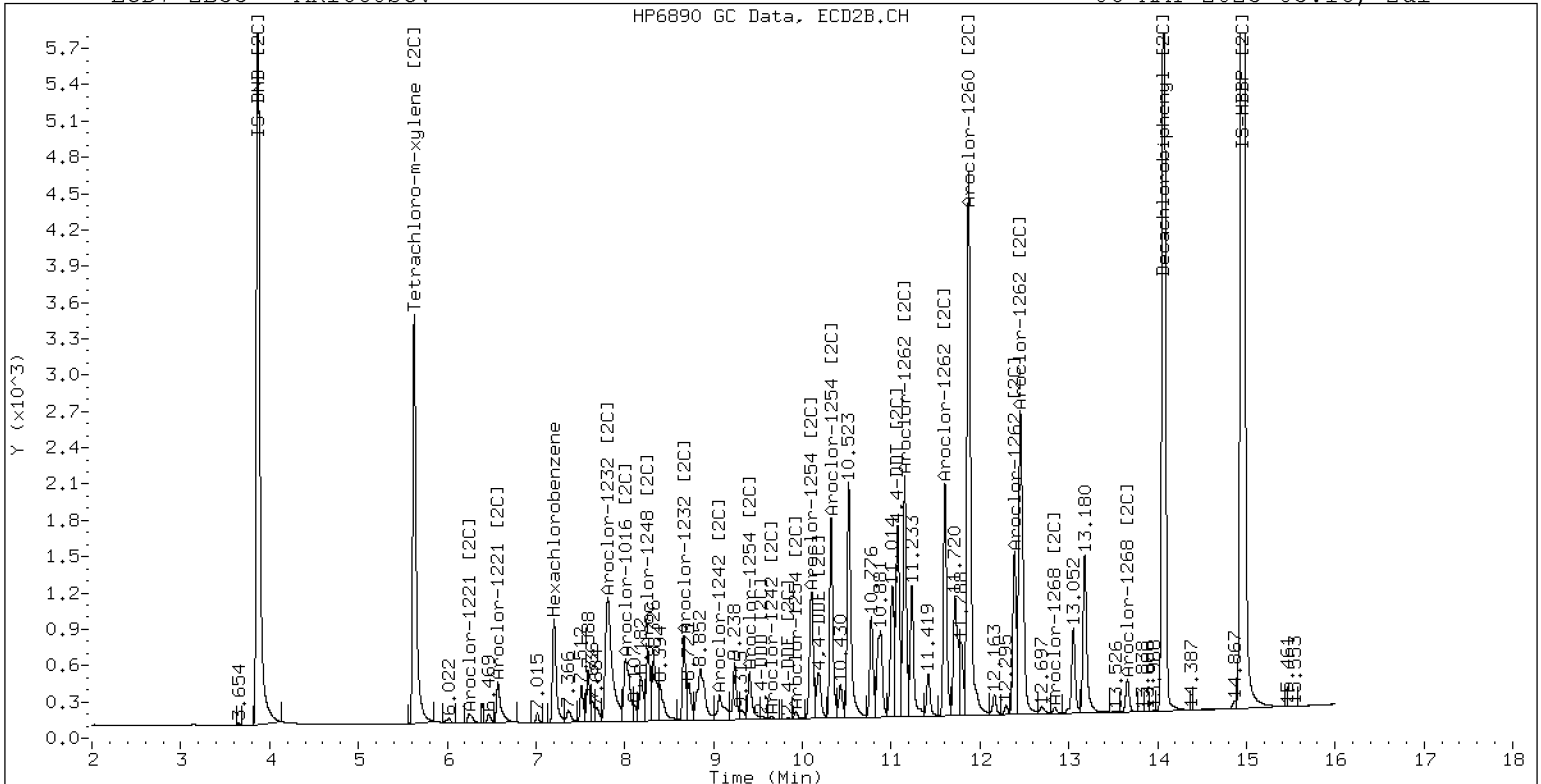
06-MAY-2023 03:16, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV

06-MAY-2023 03:16, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052333ECD7.D  
Data file 2: /230505.b/230505.b/05052333ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1242SCV  
Client ID:  
Injection Date: 06-MAY-2023 03:36  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |                | ZB35 Col |                | ZB5    | ZB35   | RPD  | Compound/Flag        |
|---------|----------------|----------|----------------|--------|--------|------|----------------------|
| RT      | Shift Response | RT       | Shift Response | on col | on col |      |                      |
| 5.744   | 0.002 319899   | 9.837    | -0.030 6399    | 32.8   | 0.0    | ---- | Tetrachloro-m-xylene |
| 13.842  | 0.002 398699   | ----     |                | 40.9   | 0.0    | ---- | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             | %D   |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area |      |
| Bromo-Nitrobenzene | 601474         | 648004      | 7.7  |
| Hexabromobiphenyl  | 876625         | 976327      | 11.4 |

| Standard Cpnd      | Column 2       |             | %D  |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area |     |
| Bromo-Nitrobenzene | 349289         | 365379      | 4.6 |
| Hexabromobiphenyl  | 652984         | 695394      | 6.5 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |       |                 |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|-------|-----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area  | Amount          |
| Aroclor-1016             | 1     | 7.213  | 0.001  | 47446  | 189.1    | 1                        | 7.205  | 0.001  | 36469 | 176.3           |
| Aroclor-1016             | 2     | 7.594  | -0.000 | 147684 | 188.2    | 2                        | 7.814  | 0.007  | 77885 | 176.7           |
| Aroclor-1016             | 3     | 7.735  | 0.002  | 67175  | 185.2    | 3                        | 8.012  | 0.006  | 38400 | 197.5           |
| Aroclor-1016             | 4     | 8.398  | 0.000  | 30565  | 204.3    | 4                        | 8.261  | 0.002  | 27551 | 178.4           |
| Total CollAve (4 peaks): |       |        |        | 191.7  |          | Total Col2Ave (4 peaks): |        |        |       | 182.2 RPD = 5   |
| Corrected Ave (3 peaks): |       |        |        | 187.5  |          | Corrected Ave (3 peaks): |        |        |       | 177.1 RPD = 6   |
| Aroclor-1221             | 1     | 4.666  | 0.002  | 870    | 19.1     | 1                        | ---    |        |       | 0.0             |
| Aroclor-1221             | 2     | 6.069  | 0.000  | 7118   | 77.8     | 2                        | 6.257  | 0.011  | 4359  | 78.0            |
| Aroclor-1221             | 3     | 6.322  | 0.001  | 32969  | 151.8    | 3                        | 6.573  | 0.001  | 16609 | 189.0           |
| Total CollAve (3 peaks): |       |        |        | 82.9   |          | Col2Ave: <3 Quant Peaks  |        |        |       |                 |
| Aroclor-1232             | 1     | 4.666  | 0.002  | 870    | 28.7     | 1                        | ---    |        |       | 0.0             |
| Aroclor-1232             | 2     | 6.069  | 0.000  | 7118   | 112.7    | 2                        | 7.205  | -0.000 | 36469 | 449.5           |
| Aroclor-1232             | 3     | 7.594  | -0.001 | 147684 | 490.8    | 3                        | 7.814  | -0.001 | 77885 | 477.9           |
| Aroclor-1232             | 4     | 8.526  | -0.000 | 70601  | 548.1    | 4                        | 8.668  | -0.001 | 25417 | 538.5           |
| Total CollAve (4 peaks): |       |        |        | 295.1  |          | Total Col2Ave (3 peaks): |        |        |       | 488.7 RPD = 49* |
| Corrected Ave (3 peaks): |       |        |        | 210.7  |          | Corrected Ave: < 3 Peaks |        |        |       |                 |
| Aroclor-1242             | 1     | 7.213  | 0.001  | 47446  | 232.4    | 1                        | 7.205  | 0.001  | 36469 | 223.3           |
| Aroclor-1242             | 2     | 7.594  | -0.000 | 147684 | 228.2    | 2                        | 7.814  | 0.002  | 77885 | 224.2           |
| Aroclor-1242             | 3     | 8.398  | 0.000  | 30565  | 244.2    | 3                        | 9.124  | 0.001  | 25864 | 232.2           |
| Aroclor-1242             | 4     | 8.526  | 0.002  | 70601  | 243.8    | 4                        | 9.552  | 0.001  | 32437 | 241.7           |
| Total CollAve (4 peaks): |       |        |        | 237.2  |          | Total Col2Ave (4 peaks): |        |        |       | 230.4 RPD = 3   |
| Corrected Ave (3 peaks): |       |        |        | 234.8  |          | Corrected Ave (3 peaks): |        |        |       | 226.6 RPD = 4   |
| Aroclor-1248             | 1     | 8.398  | -0.001 | 30565  | 184.8    | 1                        | 8.261  | 0.001  | 27551 | 158.5           |
| Aroclor-1248             | 2     | 8.526  | 0.002  | 70601  | 164.3    | 2                        | 8.668  | 0.001  | 25417 | 138.4           |
| Aroclor-1248             | 3     | 8.946  | 0.002  | 172847 | 209.1    | 3                        | 9.124  | 0.004  | 25864 | 120.2           |
| Aroclor-1248             | 4     | 9.243  | -0.001 | 87363  | 207.3    | 4                        | 9.552  | 0.006  | 32437 | 125.7           |
| Total CollAve (4 peaks): |       |        |        | 191.4  |          | Total Col2Ave (4 peaks): |        |        |       | 135.7 RPD = 34  |
| Corrected Ave (3 peaks): |       |        |        | 185.5  |          | Corrected Ave (3 peaks): |        |        |       | 128.1 RPD = 37  |
| Aroclor-1254             | 1     | 9.243  | -0.004 | 87363  | 131.2    | 1                        | 9.406  | 0.002  | 13247 | 47.7            |
| Aroclor-1254             | 2     | 9.326  | 0.001  | 28949  | 96.7     | 2                        | 9.552  | 0.053  | 32437 | 196.7           |
| Aroclor-1254             | 3     | 9.622  | 0.004  | 20780  | 48.3     | 3                        | 9.927  | 0.003  | 10002 | 44.5            |
| Aroclor-1254             | 4     | 9.762  | 0.006  | 35470  | 42.1     | 4                        | 10.082 | 0.005  | 19933 | 40.6            |
| Aroclor-1254             | 5     | 10.140 | 0.015  | 28075  | 55.2     | 5                        | 10.341 | 0.013  | 19432 | 39.9            |
| Total CollAve (5 peaks): |       |        |        | 74.7   |          | Total Col2Ave (5 peaks): |        |        |       | 73.9 RPD = 1    |
| Corrected Ave (4 peaks): |       |        |        | 60.6   |          | Corrected Ave (4 peaks): |        |        |       | 43.2 RPD = 34   |
| Aroclor-1260             | 1     | 10.998 | 0.005  | 3609   | 7.0      | 1                        | 11.618 | 0.012  | 2137  | 5.8             |
| Aroclor-1260             | 2     | 11.317 | 0.007  | 3837   | 7.5      | 2                        | 11.879 | 0.007  | 1437  | 1.5             |
| Aroclor-1260             | 3     | 11.765 | 0.080  | 33905  | 26.6     | 3                        | 12.382 | -0.006 | 12460 | 52.1            |
| Aroclor-1260             | 4     | 12.097 | 0.007  | 9099   | 14.6     | 4                        | ---    |        |       | 0.0             |
| Aroclor-1260             | 5     | 12.272 | 0.079  | 2060   | 7.6      | NS                       | ---    |        |       | ---             |
| Total CollAve (5 peaks): |       |        |        | 12.6   |          | Total Col2Ave (3 peaks): |        |        |       | 19.8 RPD = 44*  |
| Corrected Ave (4 peaks): |       |        |        | 9.2    |          | Corrected Ave: < 3 Peaks |        |        |       |                 |
| Aroclor-1262             | 1     | 10.787 | 0.009  | 24040  | 54.4     | 1                        | 11.078 | -0.075 | 7864  | 14.0            |
| Aroclor-1262             | 2     | 12.272 | 0.077  | 2060   | 3.3      | 2                        | 11.618 | 0.013  | 2137  | 4.5             |
| Aroclor-1262             | 3     | ---    |        |        | 0.0      | 3                        | 12.382 | -0.004 | 12460 | 24.0            |
| Aroclor-1262             | 4     | 12.937 | -0.002 | 16041  | 29.5     | 4                        | ---    |        |       | 0.0             |
| Total CollAve (3 peaks): |       |        |        | 29.1   |          | Total Col2Ave (3 peaks): |        |        |       | 14.1 RPD = 69*  |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |       |                 |
| Aroclor-1268             | 1     | 12.272 | 0.076  | 2060   | 1.3      | 1                        | 12.382 | -0.003 | 12460 | 9.5             |
| Aroclor-1268             | 2     | ---    |        |        | 0.0      | 2                        | ---    |        |       | 0.0             |
| Aroclor-1268             | 3     | 12.649 | 0.001  | 4324   | 3.5      | 3                        | 12.845 | 0.002  | 951   | 0.8             |
| Aroclor-1268             | 4     | 13.442 | 0.005  | 15801  | 4.4      | 4                        | 13.628 | -0.035 | 6512  | 1.7             |
| Total CollAve (3 peaks): |       |        |        | 3.1    |          | Total Col2Ave (3 peaks): |        |        |       | 4.0 RPD = 25    |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |       |                 |



Total PCB Area Col1 (5.842 - 13.740) = 1489022 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.842 - 13.740) = 667658 Col2 Total PCB = 0.2 ppm\*

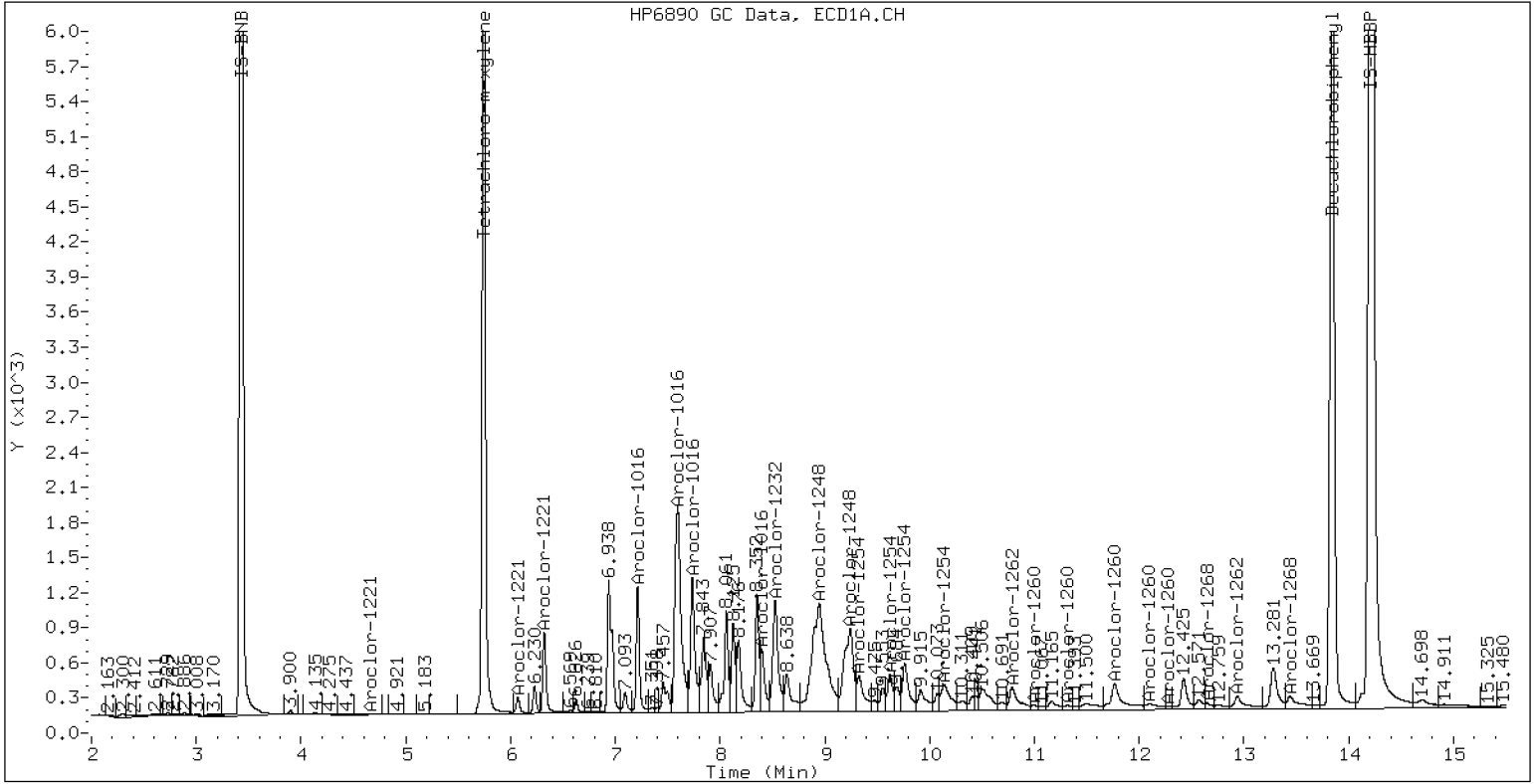
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV

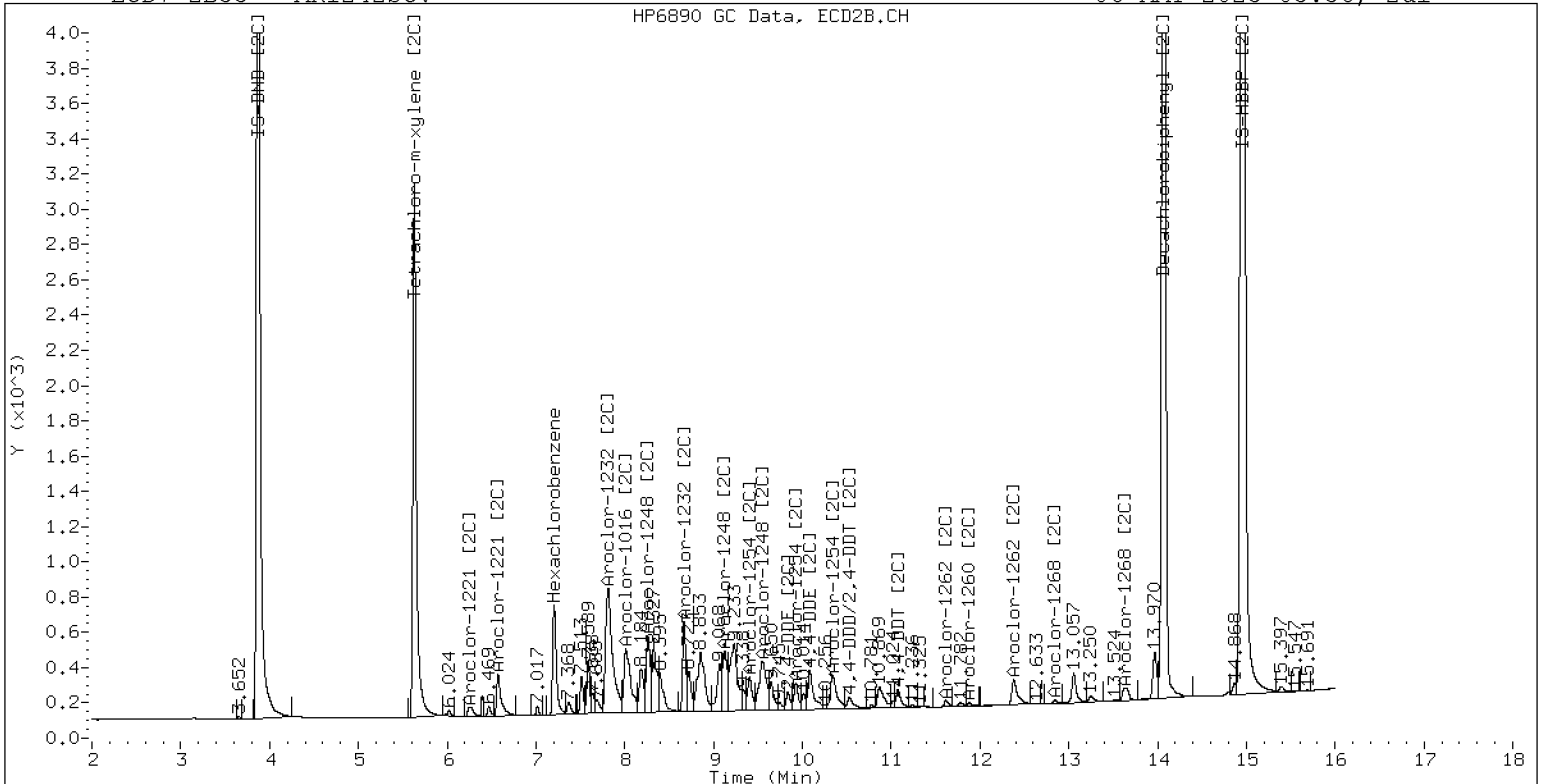
06-MAY-2023 03:36, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV

06-MAY-2023 03:36, 2ul

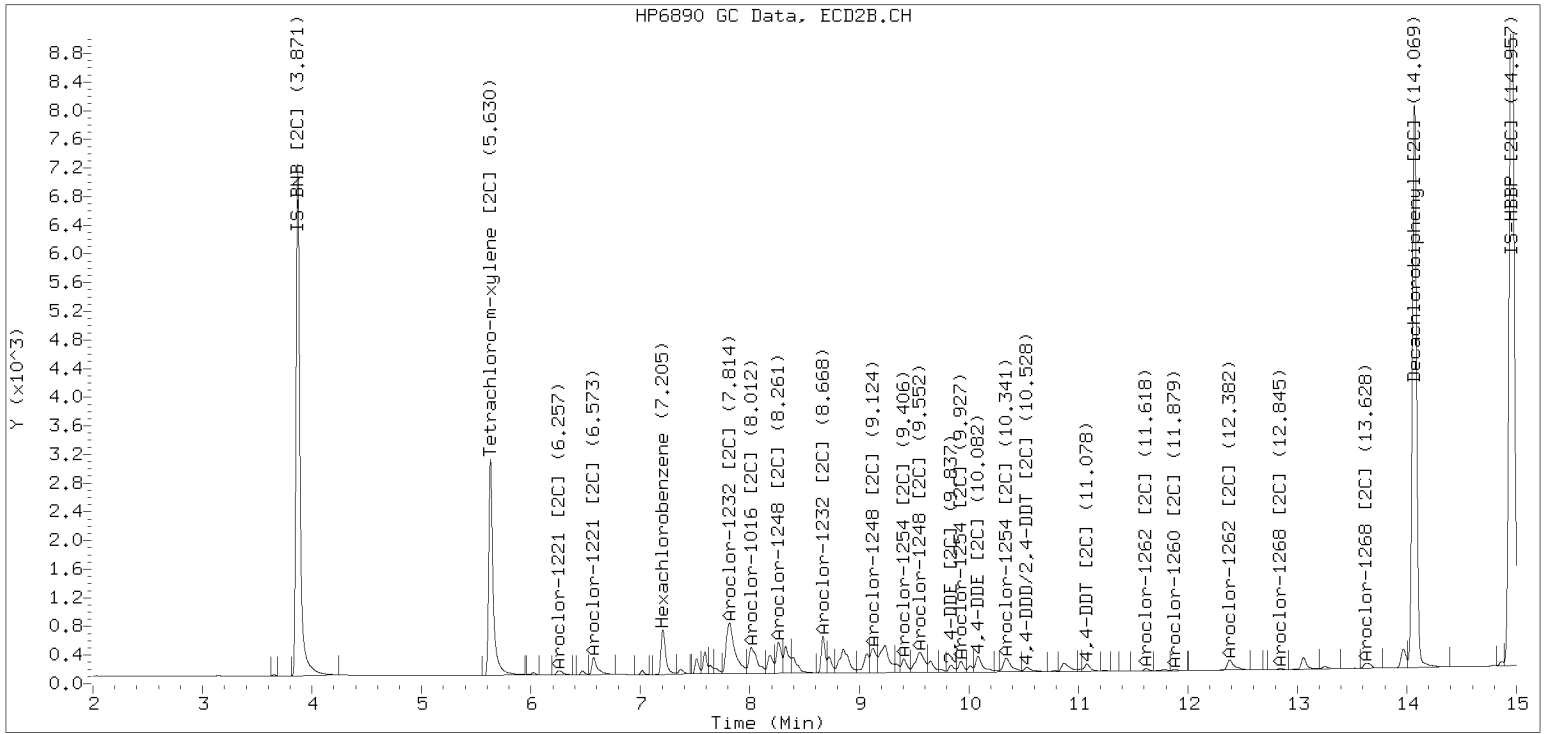


ZB-35 Manual Integration: YES

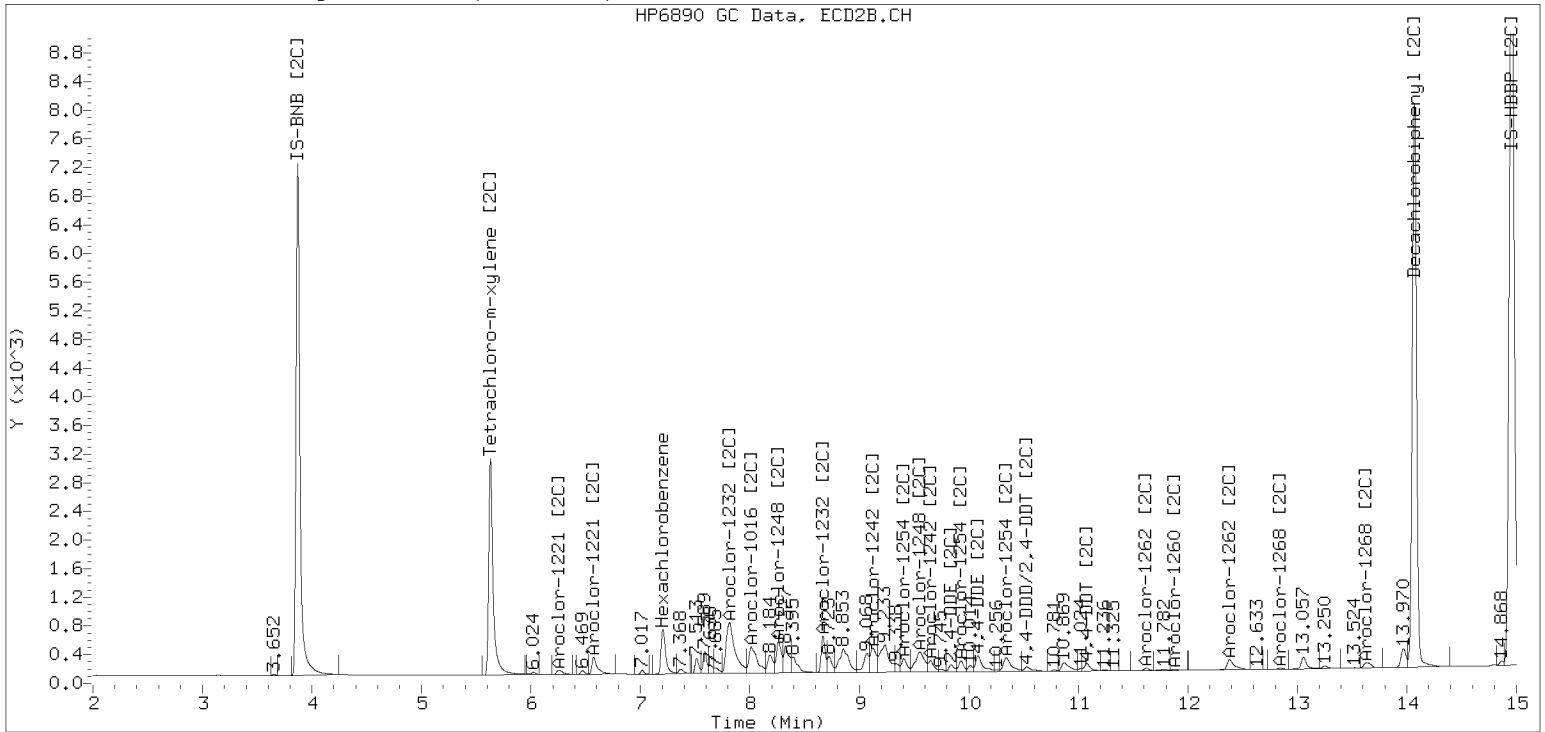
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230505.b/230505.b/05052333ECD7.D Injection Date: 06-MAY-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052334ECD7.D  
Data file 2: /230505.b/230505.b/05052334ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1248SCV  
Client ID:  
Injection Date: 06-MAY-2023 03:57  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        |          | ZB35 Col |        |          | ZB5    | ZB35   | RPD  | Compound/Flag        |
|---------|--------|----------|----------|--------|----------|--------|--------|------|----------------------|
| RT      | Shift  | Response | RT       | Shift  | Response | on col | on col |      |                      |
| 5.741   | -0.001 | 356328   | 9.834    | -0.033 | 15805    | 36.8   | 0.0    | ---- | Tetrachloro-m-xylene |
| 13.842  | 0.001  | 339452   | ----     |        |          | 35.7   | 0.0    | ---- | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 643038      | 6.9 |
| Hexabromobiphenyl  | 876625         | 952051      | 8.6 |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 359604      | 3.0 |
| Hexabromobiphenyl  | 652984         | 692982      | 6.1 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |       |                |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|-------|----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area  | Amount         |
| Aroclor-1016             | 1     | 7.212  | 0.000  | 19871  | 79.8     | 1                        | 7.203  | -0.001 | 18843 | 92.6           |
| Aroclor-1016             | 2     | 7.589  | -0.006 | 95111  | 122.2    | 2                        | 7.812  | 0.005  | 52352 | 120.7          |
| Aroclor-1016             | 3     | 7.736  | 0.003  | 37565  | 104.4    | 3                        | 8.012  | 0.006  | 8263  | 43.2           |
| Aroclor-1016             | 4     | 8.399  | 0.002  | 41542  | 279.7    | 4                        | 8.260  | 0.001  | 42833 | 281.8          |
| Total CollAve (4 peaks): |       |        |        | 146.5  |          | Total Col2Ave (4 peaks): |        |        |       | 134.6 RPD = 9  |
| Corrected Ave (3 peaks): |       |        |        | 102.1  |          | Corrected Ave (3 peaks): |        |        |       | 85.5 RPD = 18  |
| Aroclor-1221             | 1     | ---    |        |        | 0.0      | 1                        | ---    |        |       | 0.0            |
| Aroclor-1221             | 2     | 6.066  | -0.003 | 351    | 3.9      | 2                        | 6.275  | 0.029  | 1573  | 28.6           |
| Aroclor-1221             | 3     | 6.320  | -0.001 | 3509   | 16.3     | 3                        | 6.576  | 0.004  | 967   | 11.2           |
| CollAve: <3 Quant Peaks  |       |        |        |        |          | Col2Ave: <3 Quant Peaks  |        |        |       |                |
| Aroclor-1232             | 1     | ---    |        |        | 0.0      | 1                        | ---    |        |       | 0.0            |
| Aroclor-1232             | 2     | 6.066  | -0.003 | 351    | 5.6      | 2                        | 7.203  | -0.001 | 18843 | 236.0          |
| Aroclor-1232             | 3     | 7.589  | -0.006 | 95111  | 318.5    | 3                        | 7.812  | -0.002 | 52352 | 326.4          |
| Aroclor-1232             | 4     | 8.524  | -0.002 | 105782 | 827.6    | 4                        | 8.667  | -0.002 | 44962 | 968.0          |
| Total CollAve (3 peaks): |       |        |        | 383.9  |          | Total Col2Ave (3 peaks): |        |        |       | 510.1 RPD = 28 |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |       |                |
| Aroclor-1242             | 1     | 7.212  | 0.000  | 19871  | 98.1     | 1                        | 7.203  | -0.000 | 18843 | 117.2          |
| Aroclor-1242             | 2     | 7.589  | -0.006 | 95111  | 148.1    | 2                        | 7.812  | -0.000 | 52352 | 153.1          |
| Aroclor-1242             | 3     | 8.399  | 0.001  | 41542  | 334.5    | 3                        | 9.120  | -0.003 | 52681 | 480.6          |
| Aroclor-1242             | 4     | 8.524  | -0.000 | 105782 | 368.1    | 4                        | 9.650  | 0.100  | 23342 | 176.7          |
| Total CollAve (4 peaks): |       |        |        | 237.2  |          | Total Col2Ave (4 peaks): |        |        |       | 231.9 RPD = 2  |
| Corrected Ave (3 peaks): |       |        |        | 193.6  |          | Corrected Ave (3 peaks): |        |        |       | 149.0 RPD = 26 |
| Aroclor-1248             | 1     | 8.399  | 0.001  | 41542  | 253.1    | 1                        | 8.260  | -0.001 | 42833 | 250.4          |
| Aroclor-1248             | 2     | 8.524  | -0.000 | 105782 | 248.0    | 2                        | 8.667  | 0.000  | 44962 | 248.8          |
| Aroclor-1248             | 3     | 8.944  | -0.000 | 206928 | 252.3    | 3                        | 9.120  | -0.000 | 52681 | 248.7          |
| Aroclor-1248             | 4     | 9.242  | -0.001 | 105227 | 251.7    | 4                        | 9.548  | 0.002  | 63343 | 249.4          |
| Total CollAve (4 peaks): |       |        |        | 251.3  |          | Total Col2Ave (4 peaks): |        |        |       | 249.3 RPD = 1  |
| Corrected Ave (3 peaks): |       |        |        | 250.6  |          | Corrected Ave (3 peaks): |        |        |       | 249.0 RPD = 1  |
| Aroclor-1254             | 1     | 9.242  | -0.004 | 105227 | 159.2    | 1                        | 9.404  | 0.000  | 25835 | 94.6           |
| Aroclor-1254             | 2     | 9.324  | -0.001 | 51326  | 172.8    | 2                        | 9.548  | 0.049  | 63343 | 390.3          |
| Aroclor-1254             | 3     | 9.619  | 0.001  | 41394  | 97.0     | 3                        | 9.925  | 0.001  | 22609 | 102.1          |
| Aroclor-1254             | 4     | 9.759  | 0.003  | 72223  | 86.4     | 4                        | 10.079 | 0.001  | 43816 | 90.7           |
| Aroclor-1254             | 5     | 10.135 | 0.010  | 49936  | 98.9     | 5                        | 10.345 | 0.016  | 42513 | 88.7           |
| Total CollAve (5 peaks): |       |        |        | 122.9  |          | Total Col2Ave (5 peaks): |        |        |       | 153.3 RPD = 22 |
| Corrected Ave (4 peaks): |       |        |        | 110.4  |          | Corrected Ave (4 peaks): |        |        |       | 94.0 RPD = 16  |
| Aroclor-1260             | 1     | 10.998 | 0.005  | 1863   | 3.7      | 1                        | 11.617 | 0.011  | 2599  | 7.1            |
| Aroclor-1260             | 2     | 11.314 | 0.004  | 1152   | 2.3      | 2                        | 11.877 | 0.005  | 1951  | 2.0            |
| Aroclor-1260             | 3     | 11.695 | 0.009  | 1829   | 1.5      | 3                        | 12.389 | 0.001  | 857   | 3.6            |
| Aroclor-1260             | 4     | 12.097 | 0.007  | 1266   | 2.1      | 4                        | 12.458 | 0.003  | 1302  | 2.0            |
| Aroclor-1260             | 5     | 12.195 | 0.002  | 464    | 1.7      | NS                       | ---    |        |       | ----           |
| Total CollAve (5 peaks): |       |        |        | 2.3    |          | Total Col2Ave (4 peaks): |        |        |       | 3.7 RPD = 48*  |
| Corrected Ave (4 peaks): |       |        |        | 1.9    |          | Corrected Ave (3 peaks): |        |        |       | 2.5 RPD = 29   |
| Aroclor-1262             | 1     | 10.784 | 0.005  | 15405  | 35.8     | 1                        | 11.077 | -0.077 | 9003  | 16.0           |
| Aroclor-1262             | 2     | 12.195 | 0.000  | 464    | 0.8      | 2                        | 11.617 | 0.012  | 2599  | 5.5            |
| Aroclor-1262             | 3     | 12.271 | 0.002  | 489    | 0.8      | 3                        | 12.389 | 0.003  | 857   | 1.7            |
| Aroclor-1262             | 4     | 12.940 | 0.001  | 1638   | 3.1      | 4                        | 12.458 | 0.002  | 1302  | 1.5            |
| Total CollAve (4 peaks): |       |        |        | 10.1   |          | Total Col2Ave (4 peaks): |        |        |       | 6.2 RPD = 48*  |
| Corrected Ave (3 peaks): |       |        |        | 1.5    |          | Corrected Ave (3 peaks): |        |        |       | 2.9 RPD = 61*  |
| Aroclor-1268             | 1     | 12.195 | -0.001 | 464    | 0.3      | 1                        | 12.389 | 0.004  | 857   | 0.7            |
| Aroclor-1268             | 2     | 12.271 | 0.003  | 489    | 0.3      | 2                        | 12.458 | 0.006  | 1302  | 0.9            |
| Aroclor-1268             | 3     | 12.649 | 0.001  | 1831   | 1.5      | 3                        | 12.845 | 0.002  | 676   | 0.6            |
| Aroclor-1268             | 4     | 13.443 | 0.006  | 5387   | 1.6      | 4                        | 13.661 | -0.003 | 2707  | 0.7            |
| Total CollAve (4 peaks): |       |        |        | 0.9    |          | Total Col2Ave (4 peaks): |        |        |       | 0.7 RPD = 26   |
| Corrected Ave (3 peaks): |       |        |        | 0.7    |          | Corrected Ave (3 peaks): |        |        |       | 0.6 RPD = 11   |

Total PCB Area Col1 (5.842 - 13.740) = 1634238 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.842 - 13.740) = 874053 Col2 Total PCB = 0.2 ppm\*

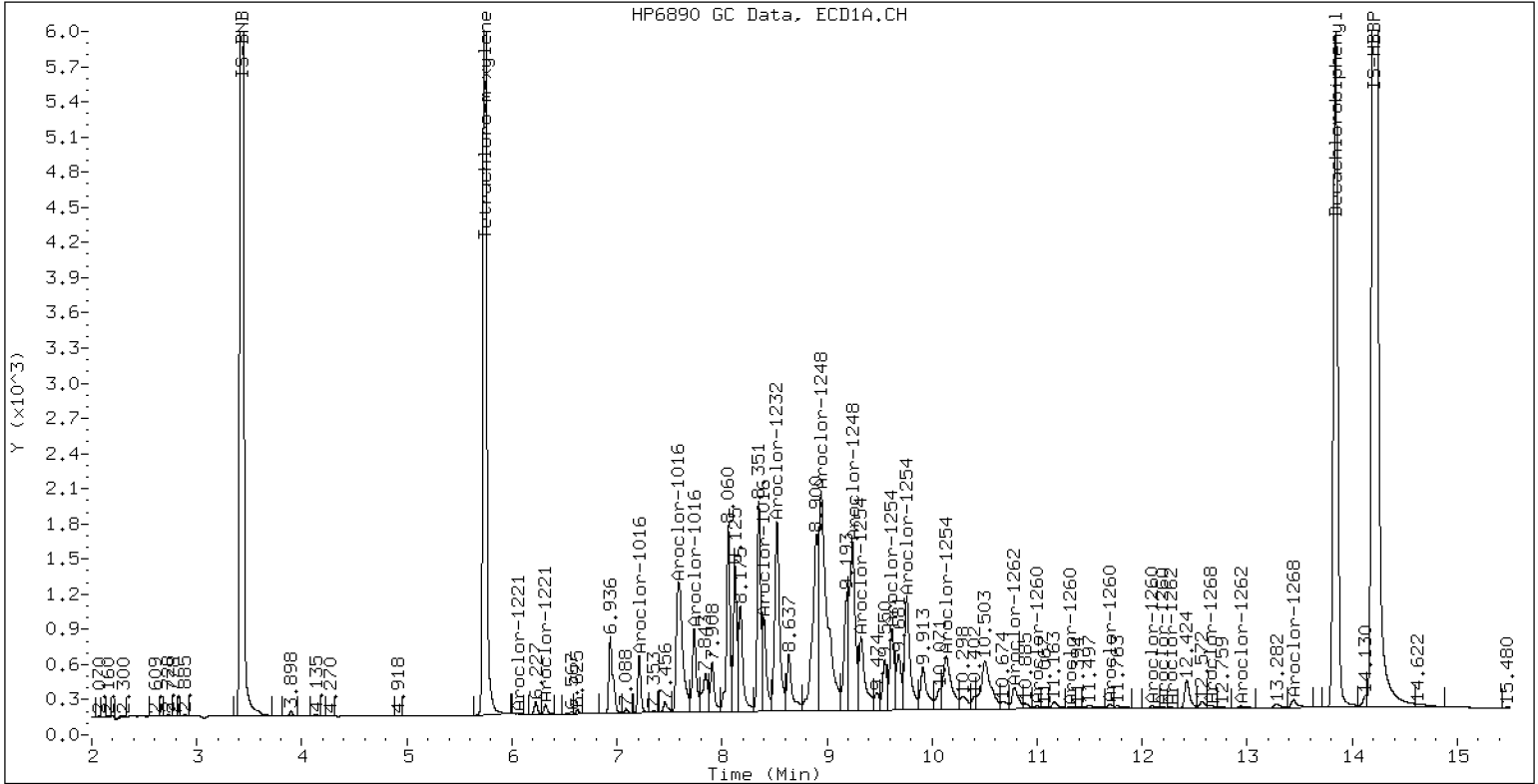
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV

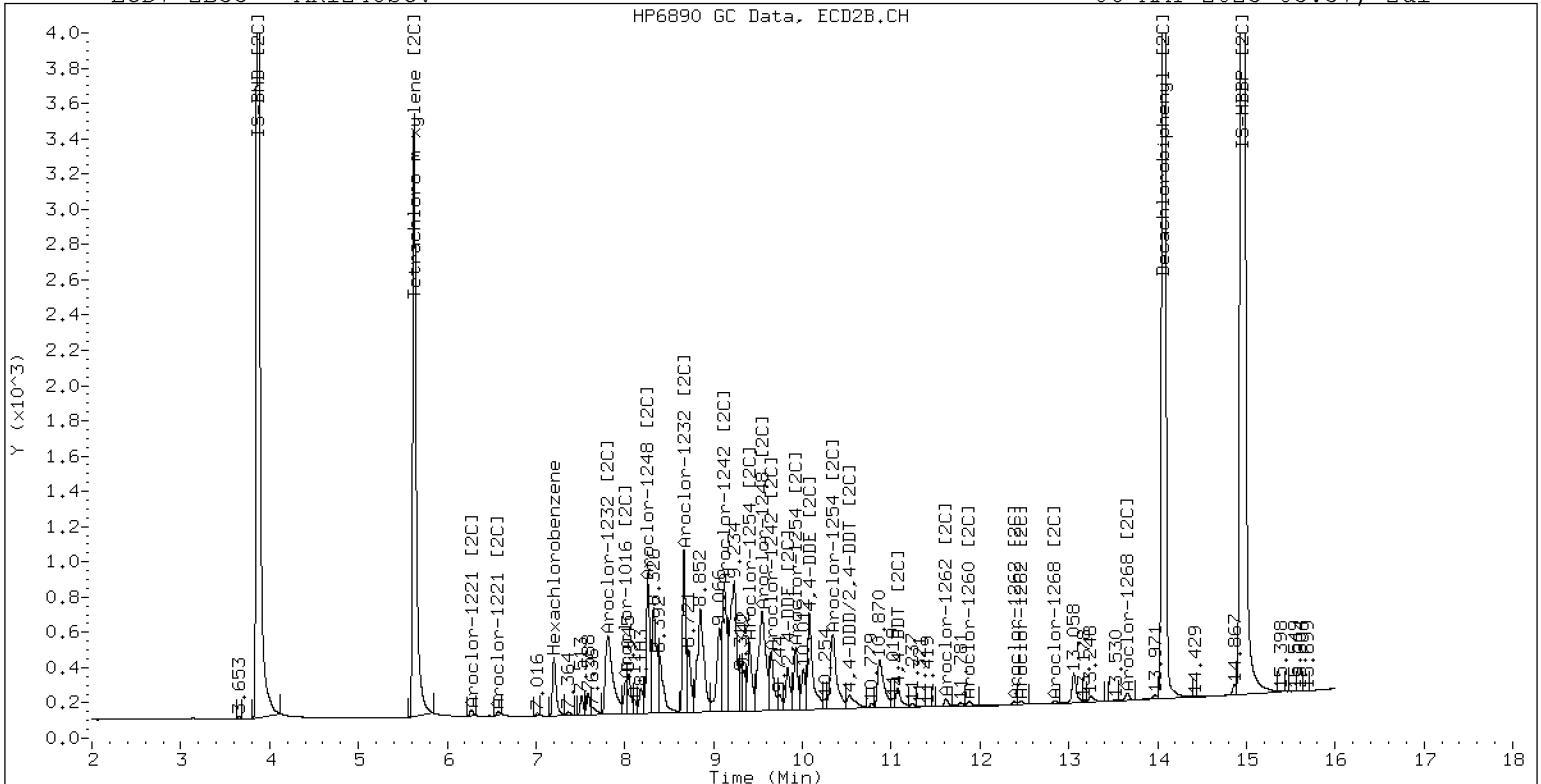
06-MAY-2023 03:57, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV

06-MAY-2023 03:57, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052335ECD7.D  
Data file 2: /230505.b/230505.b/05052335ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1254SCV  
Client ID:  
Injection Date: 06-MAY-2023 04:18  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.743  | 0.001         | 368022   | 5.631  | 0.002          | 192033   | 37.6       | 38.3        | 2.0 | Tetrachloro-m-xylene |
| 13.843 | 0.002         | 352066   | 14.070 | 0.002          | 385384   | 36.0       | 38.5        | 6.8 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 650234      | 8.1  |
| Hexabromobiphenyl  | 876625         | 980276      | 11.8 |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 364142      | 4.3 |
| Hexabromobiphenyl  | 652984         | 705291      | 8.0 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                  |       |        |        |        |        | ZB35 Col                                 |        |        |        |        |
|--------------------------|-------|--------|--------|--------|--------|--|--------|--------|--------|--------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount | Peak#                                    | RT     | Shift  | Area   | Amount |
| Aroclor-1016             | 1     | 7.214  | 0.002  | 635    | 2.5    | 1  | ---    |        |        | 0.0    |
| Aroclor-1016             | 2     | 7.590  | -0.004 | 2512   | 3.2    | 2  | ---    |        |        | 0.0    |
| Aroclor-1016             | 3     | 7.738  | 0.005  | 1594   | 4.4    | 3  | ---    |        |        | 0.0    |
| Aroclor-1016             | 4     | 8.351  | -0.047 | 31774  | 211.6  | 4  | ---    |        |        | 0.0    |
| Total CollAve (4 peaks): |       |        |        | 55.4   |        | Col2Ave: <3 Quant Peaks                  |        |        |        |        |
| Aroclor-1221             | 1     | ---    |        |        | 0.0    | 1  | ---    |        |        | 0.0    |
| Aroclor-1221             | 2     | 6.052  | -0.018 | 242    | 2.6    | 2  | ---    |        |        | 0.0    |
| Aroclor-1221             | 3     | 6.322  | 0.001  | 427    | 2.0    | 3  | ---    |        |        | 0.0    |
| CollAve: <3 Quant Peaks  |       |        |        |        |        | Col2Ave: <3 Quant Peaks                  |        |        |        |        |
| Aroclor-1232             | 1     | ---    |        |        | 0.0    | 1  | ---    |        |        | 0.0    |
| Aroclor-1232             | 2     | 6.052  | -0.018 | 242    | 3.8    | 2  | ---    |        |        | 0.0    |
| Aroclor-1232             | 3     | 7.590  | -0.005 | 2512   | 8.3    | 3  | ---    |        |        | 0.0    |
| Aroclor-1232             | 4     | 8.528  | 0.001  | 13950  | 107.9  | 4  | ---    |        |        | 0.0    |
| Total CollAve (3 peaks): |       |        |        | 40.0   |        | Col2Ave: <3 Quant Peaks                  |        |        |        |        |
| Aroclor-1242             | 1     | 7.214  | 0.002  | 635    | 3.1    | 1  | ---    |        |        | 0.0    |
| Aroclor-1242             | 2     | 7.590  | -0.005 | 2512   | 3.9    | 2  | ---    |        |        | 0.0    |
| Aroclor-1242             | 3     | 8.351  | -0.047 | 31774  | 253.0  | 3  | 9.125  | 0.002  | 23963  | 215.9  |
| Aroclor-1242             | 4     | 8.528  | 0.004  | 13950  | 48.0   | 4  | 9.649  | 0.099  | 23982  | 179.3  |
| Total CollAve (4 peaks): |       |        |        | 77.0   |        | Col2Ave: <3 Quant Peaks                  |        |        |        |        |
| Aroclor-1248             | 1     | 8.351  | -0.048 | 31774  | 191.4  | 1  | 8.260  | -0.000 | 23490  | 135.6  |
| Aroclor-1248             | 2     | 8.528  | 0.004  | 13950  | 32.3   | 2  | 8.669  | 0.002  | 16693  | 91.2   |
| Aroclor-1248             | 3     | 8.941  | -0.003 | 154338 | 186.1  | 3  | 9.125  | 0.005  | 23963  | 111.7  |
| Aroclor-1248             | 4     | 9.246  | 0.003  | 158369 | 374.6  | 4  | 9.499  | -0.047 | 38716  | 150.5  |
| Total CollAve (4 peaks): |       |        |        | 196.1  |        | Total Col2Ave (4 peaks): 122.3 RPD = 46* |        |        |        |        |
| Corrected Ave (3 peaks): |       |        |        | 136.6  |        | Corrected Ave (3 peaks): 112.8 RPD = 19  |        |        |        |        |
| Aroclor-1254             | 1     | 9.246  | -0.001 | 158369 | 237.0  | 1  | 9.404  | 0.000  | 67493  | 244.0  |
| Aroclor-1254             | 2     | 9.325  | -0.000 | 72386  | 241.1  | 2  | 9.499  | -0.000 | 38716  | 235.6  |
| Aroclor-1254             | 3     | 9.617  | -0.001 | 103602 | 240.1  | 3  | 9.925  | 0.001  | 53972  | 240.7  |
| Aroclor-1254             | 4     | 9.756  | 0.000  | 201259 | 238.2  | 4  | 10.079 | 0.001  | 116950 | 239.0  |
| Aroclor-1254             | 5     | 10.127 | 0.001  | 122207 | 239.5  | 5  | 10.327 | -0.001 | 118439 | 243.9  |
| Total CollAve (5 peaks): |       |        |        | 239.2  |        | Total Col2Ave (5 peaks): 240.6 RPD = 1   |        |        |        |        |
| Corrected Ave (4 peaks): |       |        |        | 238.7  |        | Corrected Ave (4 peaks): 239.8 RPD = 0   |        |        |        |        |
| Aroclor-1260             | 1     | 10.994 | 0.001  | 13538  | 26.1   | 1  | 11.615 | 0.009  | 33465  | 89.3   |
| Aroclor-1260             | 2     | 11.313 | 0.003  | 13900  | 27.2   | 2  | 11.876 | 0.004  | 25534  | 26.1   |
| Aroclor-1260             | 3     | 11.689 | 0.004  | 32548  | 25.4   | 3  | 12.404 | 0.016  | 1811   | 7.5    |
| Aroclor-1260             | 4     | 12.093 | 0.003  | 25285  | 40.3   | 4  | 12.458 | 0.002  | 14842  | 22.7   |
| Aroclor-1260             | 5     | 12.273 | 0.079  | 2534   | 9.3    | NS                                       | ---    |        |        | ---    |
| Total CollAve (5 peaks): |       |        |        | 25.6   |        | Total Col2Ave (4 peaks): 36.4 RPD = 35   |        |        |        |        |
| Corrected Ave (4 peaks): |       |        |        | 22.0   |        | Corrected Ave (3 peaks): 18.7 RPD = 16   |        |        |        |        |
| Aroclor-1262             | 1     | 10.779 | 0.000  | 210018 | 473.6  | 1  | 11.073 | -0.081 | 114323 | 200.0  |
| Aroclor-1262             | 2     | 12.273 | 0.078  | 2534   | 4.1    | 2  | 11.615 | 0.010  | 33465  | 69.4   |
| Aroclor-1262             | 3     | ---    |        |        | 0.0    | 3  | 12.404 | 0.018  | 1811   | 3.4    |
| Aroclor-1262             | 4     | 12.939 | 0.001  | 1830   | 3.3    | 4  | 12.458 | 0.002  | 14842  | 17.3   |
| Total CollAve (3 peaks): |       |        |        | 160.3  |        | Total Col2Ave (4 peaks): 72.6 RPD = 75*  |        |        |        |        |
| Corrected Ave: < 3 Peaks |       |        |        |        |        | Corrected Ave (3 peaks): 30.1            |        |        |        |        |
| Aroclor-1268             | 1     | 12.273 | 0.077  | 2534   | 1.6    | 1  | 12.404 | 0.019  | 1811   | 1.4    |
| Aroclor-1268             | 2     | ---    |        |        | 0.0    | 2  | 12.458 | 0.005  | 14842  | 10.3   |
| Aroclor-1268             | 3     | 12.654 | 0.006  | 2669   | 2.1    | 3  | 12.847 | 0.004  | 835    | 0.7    |
| Aroclor-1268             | 4     | 13.442 | 0.004  | 6266   | 1.8    | 4  | 13.662 | -0.001 | 2350   | 0.6    |
| Total CollAve (3 peaks): |       |        |        | 1.8    |        | Total Col2Ave (4 peaks): 3.2 RPD = 55*   |        |        |        |        |
| Corrected Ave: < 3 Peaks |       |        |        |        |        | Corrected Ave (3 peaks): 0.9             |        |        |        |        |

Total PCB Area Col1 (5.842 - 13.740) = 2123119 Col1 Total PCB = 0.3 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 1146487 Col2 Total PCB = 0.3 ppm\*

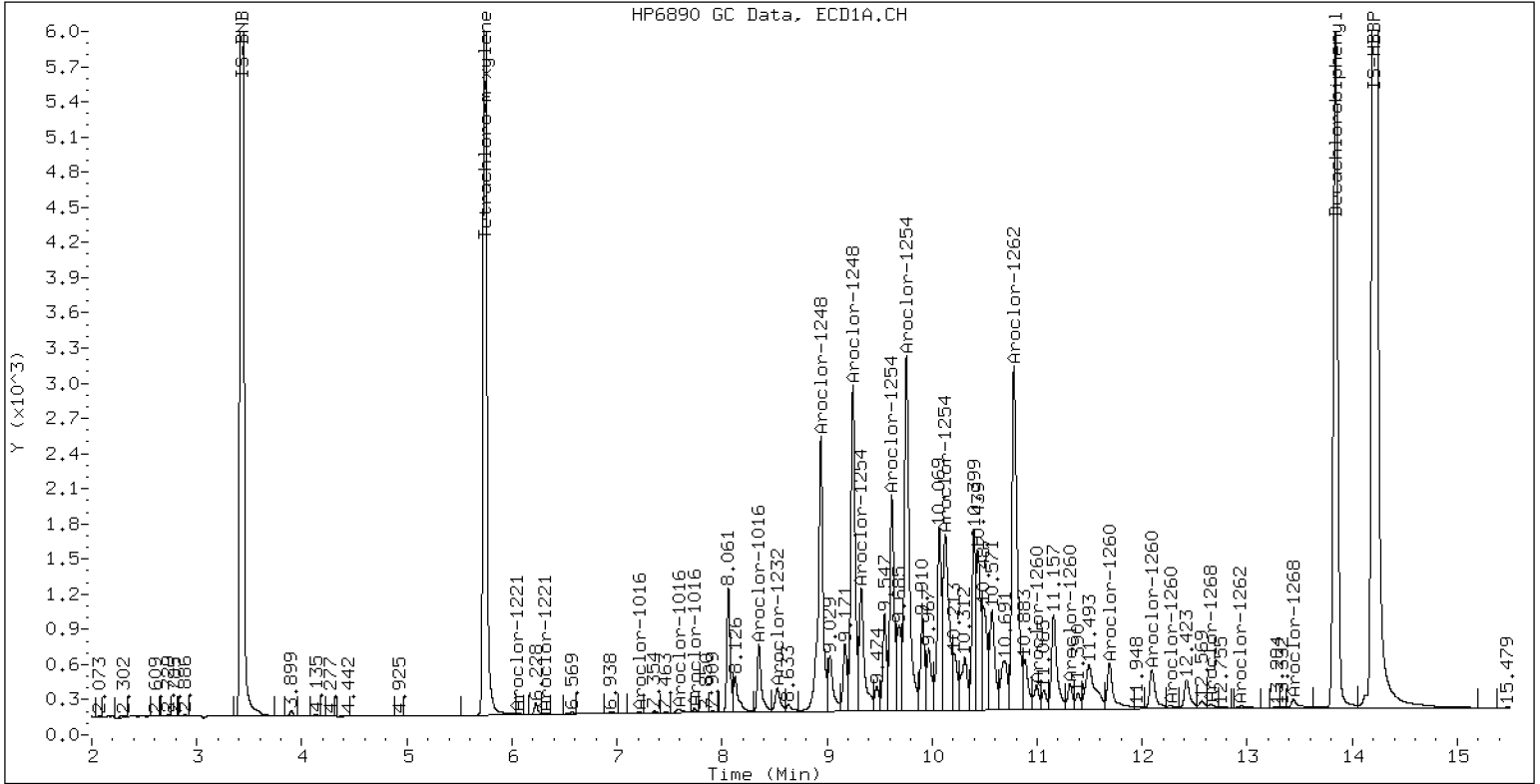
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV

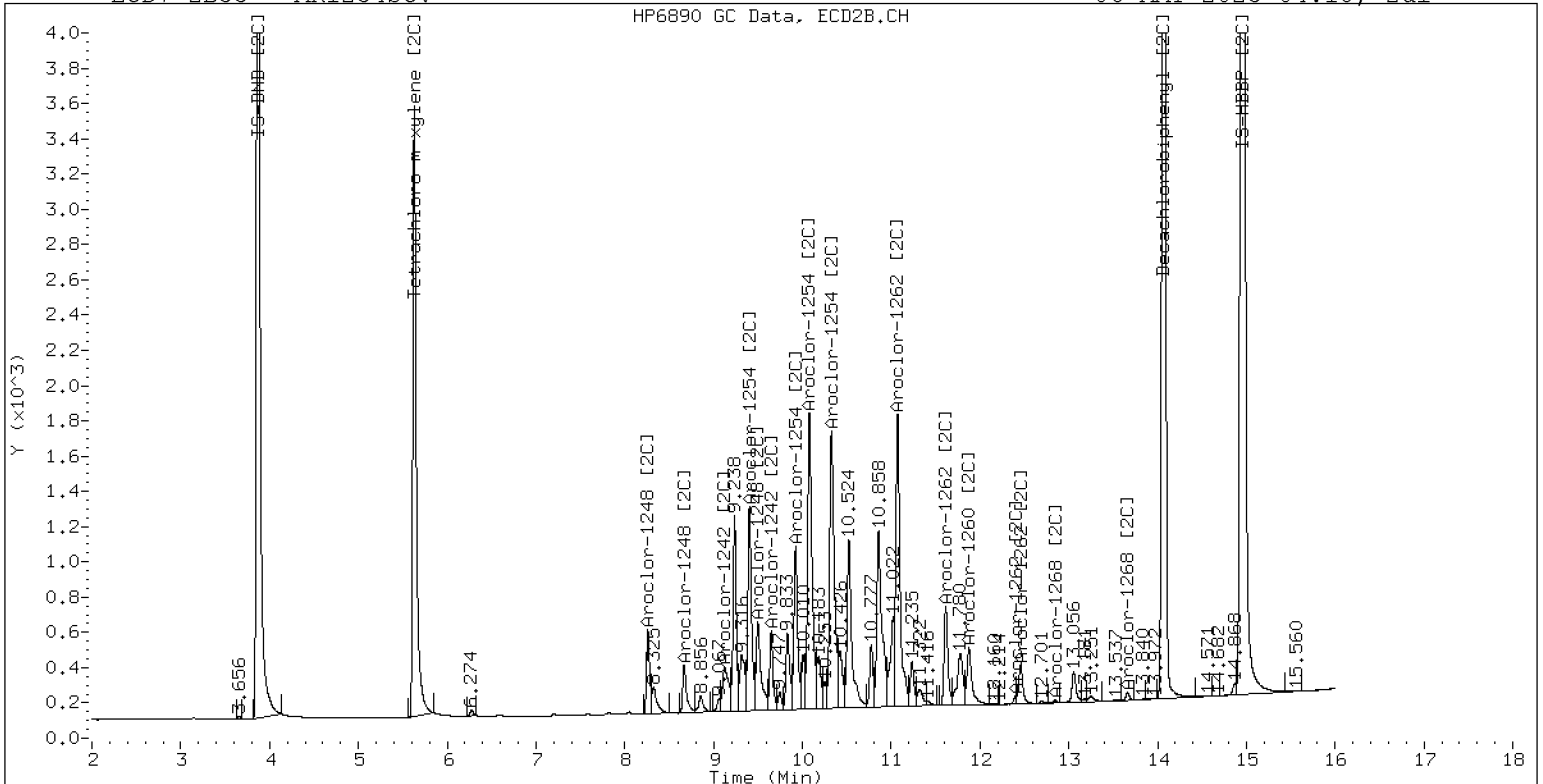
06-MAY-2023 04:18, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV

06-MAY-2023 04:18, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052336ECD7.D  
Data file 2: /230505.b/230505.b/05052336ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR2162SCV  
Client ID:  
Injection Date: 06-MAY-2023 04:39  
Report Date: 05/06/2023 11:31  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col<br>Shift | Response | RT     | ZB35 Col<br>Shift | Response | ZB5<br>on col | ZB35<br>on col | RPD | Compound/Flag        |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.742  | 0.000            | 358254   | 5.628  | -0.000            | 183759   | 37.8          | 39.1           | 3.3 | Tetrachloro-m-xylene |
| 13.842 | 0.002            | 344347   | 14.070 | 0.002             | 373300   | 37.1          | 38.8           | 4.5 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 629547      | 4.7 |
| Hexabromobiphenyl  | 876625         | 929713      | 6.1 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 349289         | 341980      | -2.1 |
| Hexabromobiphenyl  | 652984         | 678097      | 3.8  |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        |                          | ZB35 Col |        |        |        |            |  |
|--------------------------|-------|--------|--------|--------|--------------------------|----------|--------|--------|--------|------------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                   | Peak#    | RT     | Shift  | Area   | Amount     |  |
| Aroclor-1016             | 1     | 7.213  | 0.000  | 6601   | 27.1                     | 1        | 7.207  | 0.003  | 3935   | 20.3       |  |
| Aroclor-1016             | 2     | 7.595  | 0.000  | 13419  | 17.6                     | 2        | 7.821  | 0.013  | 6146   | 14.9       |  |
| Aroclor-1016             | 3     | 7.735  | 0.003  | 7114   | 20.2                     | 3        | 8.027  | 0.021  | 3201   | 17.6       |  |
| Aroclor-1016             | 4     | 8.353  | -0.045 | 3916   | 26.9                     | 4        | 8.262  | 0.003  | 2131   | 14.7       |  |
| Total CollAve (4 peaks): |       |        |        | 23.0   | Total Col2Ave (4 peaks): |          |        |        | 16.9   | RPD = 30   |  |
| Corrected Ave (3 peaks): |       |        |        | 21.6   | Corrected Ave (3 peaks): |          |        |        | 15.7   | RPD = 31   |  |
|                          |       |        |        |        |                          |          |        |        |        |            |  |
| Aroclor-1221             | 1     | 4.663  | -0.001 | 13184  | 297.8                    | 1        | 4.893  | -0.001 | 7253   | 287.5      |  |
| Aroclor-1221             | 2     | 6.070  | 0.000  | 25527  | 287.4                    | 2        | 6.244  | -0.001 | 14853  | 284.1      |  |
| Aroclor-1221             | 3     | 6.321  | 0.000  | 59985  | 284.3                    | 3        | 6.571  | -0.001 | 24083  | 292.9      |  |
| Total CollAve (3 peaks): |       |        |        | 289.8  | Total Col2Ave (3 peaks): |          |        |        | 288.2  | RPD = 1    |  |
| Corrected Ave: < 3 Peaks |       |        |        |        | Corrected Ave: < 3 Peaks |          |        |        |        |            |  |
|                          |       |        |        |        |                          |          |        |        |        |            |  |
| Aroclor-1232             | 1     | 4.663  | -0.001 | 13184  | 447.0                    | 1        | 4.893  | -0.001 | 7253   | 546.9      |  |
| Aroclor-1232             | 2     | 6.070  | 0.000  | 25527  | 416.0                    | 2        | 7.207  | 0.002  | 3935   | 51.8       |  |
| Aroclor-1232             | 3     | 7.595  | -0.000 | 13419  | 45.9                     | 3        | 7.821  | 0.006  | 6146   | 40.3       |  |
| Aroclor-1232             | 4     | 8.528  | 0.001  | 2679   | 21.4                     | 4        | 8.671  | 0.002  | 1120   | 25.4       |  |
| Total CollAve (4 peaks): |       |        |        | 232.6  | Total Col2Ave (4 peaks): |          |        |        | 166.1  | RPD = 33   |  |
| Corrected Ave (3 peaks): |       |        |        | 161.1  | Corrected Ave (3 peaks): |          |        |        | 39.2   | RPD = 122* |  |
|                          |       |        |        |        |                          |          |        |        |        |            |  |
| Aroclor-1242             | 1     | 7.213  | 0.001  | 6601   | 33.3                     | 1        | 7.207  | 0.004  | 3935   | 25.7       |  |
| Aroclor-1242             | 2     | 7.595  | -0.000 | 13419  | 21.3                     | 2        | 7.821  | 0.008  | 6146   | 18.9       |  |
| Aroclor-1242             | 3     | 8.353  | -0.045 | 3916   | 32.2                     | 3        | 9.133  | 0.010  | 881    | 8.5        |  |
| Aroclor-1242             | 4     | 8.528  | 0.003  | 2679   | 9.5                      | 4        | 9.651  | 0.101  | 516    | 4.1        |  |
| Total CollAve (4 peaks): |       |        |        | 24.1   | Total Col2Ave (4 peaks): |          |        |        | 14.3   | RPD = 51*  |  |
| Corrected Ave (3 peaks): |       |        |        | 21.0   | Corrected Ave (3 peaks): |          |        |        | 10.5   | RPD = 67*  |  |
|                          |       |        |        |        |                          |          |        |        |        |            |  |
| Aroclor-1248             | 1     | 8.353  | -0.046 | 3916   | 24.4                     | 1        | 8.262  | 0.002  | 2131   | 13.1       |  |
| Aroclor-1248             | 2     | 8.528  | 0.003  | 2679   | 6.4                      | 2        | 8.671  | 0.004  | 1120   | 6.5        |  |
| Aroclor-1248             | 3     | 8.942  | -0.002 | 25144  | 31.3                     | 3        | 9.133  | 0.013  | 881    | 4.4        |  |
| Aroclor-1248             | 4     | 9.251  | 0.008  | 25583  | 62.5                     | 4        | 9.500  | -0.045 | 335    | 1.4        |  |
| Total CollAve (4 peaks): |       |        |        | 31.1   | Total Col2Ave (4 peaks): |          |        |        | 6.3    | RPD = 132* |  |
| Corrected Ave (3 peaks): |       |        |        | 20.7   | Corrected Ave (3 peaks): |          |        |        | 4.1    | RPD = 134* |  |
|                          |       |        |        |        |                          |          |        |        |        |            |  |
| Aroclor-1254             | 1     | 9.251  | 0.005  | 25583  | 39.5                     | 1        | 9.408  | 0.004  | 9719   | 37.4       |  |
| Aroclor-1254             | 2     | ---    |        |        | 0.0                      | 2        | 9.500  | 0.001  | 335    | 2.2        |  |
| Aroclor-1254             | 3     | 9.620  | 0.002  | 4245   | 10.2                     | 3        | 9.928  | 0.004  | 2055   | 9.8        |  |
| Aroclor-1254             | 4     | 9.758  | 0.003  | 11050  | 13.5                     | 4        | 10.100 | 0.022  | 55162  | 120.0      |  |
| Aroclor-1254             | 5     | 10.071 | -0.055 | 129151 | 261.4                    | 5        | 10.325 | -0.004 | 68421  | 150.1      |  |
| Total CollAve (4 peaks): |       |        |        | 81.1   | Total Col2Ave (5 peaks): |          |        |        | 63.9   | RPD = 24   |  |
| Corrected Ave (3 peaks): |       |        |        | 21.1   | Corrected Ave (4 peaks): |          |        |        | 42.3   | RPD = 67*  |  |
|                          |       |        |        |        |                          |          |        |        |        |            |  |
| Aroclor-1260             | 1     | 10.995 | 0.002  | 206643 | 420.3                    | 1        | 11.605 | -0.001 | 119902 | 332.9      |  |
| Aroclor-1260             | 2     | 11.311 | 0.001  | 167443 | 345.1                    | 2        | 11.872 | 0.000  | 293746 | 311.8      |  |
| Aroclor-1260             | 3     | 11.687 | 0.001  | 390491 | 321.4                    | 3        | 12.386 | -0.002 | 131462 | 563.2      |  |
| Aroclor-1260             | 4     | 12.091 | 0.001  | 120118 | 201.8                    | 4        | 12.456 | 0.000  | 212898 | 338.4      |  |
| Aroclor-1260             | 5     | 12.195 | 0.002  | 155588 | 599.5                    | NS       | ---    |        |        | ----       |  |
| Total CollAve (5 peaks): |       |        |        | 377.6  | Total Col2Ave (4 peaks): |          |        |        | 386.6  | RPD = 2    |  |
| Corrected Ave (4 peaks): |       |        |        | 322.2  | Corrected Ave (3 peaks): |          |        |        | 327.7  | RPD = 2    |  |
|                          |       |        |        |        |                          |          |        |        |        |            |  |
| Aroclor-1262             | 1     | 10.777 | -0.001 | 114050 | 271.2                    | 1        | 11.153 | 0.000  | 141861 | 258.2      |  |
| Aroclor-1262             | 2     | 12.195 | 0.001  | 155588 | 263.0                    | 2        | 11.605 | 0.000  | 119902 | 258.7      |  |
| Aroclor-1262             | 3     | 12.269 | 0.000  | 167998 | 264.2                    | 3        | 12.386 | -0.000 | 131462 | 259.6      |  |
| Aroclor-1262             | 4     | 12.938 | -0.001 | 136019 | 262.5                    | 4        | 12.456 | 0.000  | 212898 | 258.0      |  |
| Total CollAve (4 peaks): |       |        |        | 265.2  | Total Col2Ave (4 peaks): |          |        |        | 258.6  | RPD = 3    |  |
| Corrected Ave (3 peaks): |       |        |        | 263.3  | Corrected Ave (3 peaks): |          |        |        | 258.3  | RPD = 2    |  |
|                          |       |        |        |        |                          |          |        |        |        |            |  |
| Aroclor-1268             | 1     | 12.195 | -0.000 | 155588 | 104.9                    | 1        | 12.386 | 0.001  | 131462 | 102.4      |  |
| Aroclor-1268             | 2     | 12.269 | 0.001  | 167998 | 114.1                    | 2        | 12.456 | 0.003  | 212898 | 154.3      |  |
| Aroclor-1268             | 3     | 12.675 | 0.027  | 60611  | 51.2                     | 3        | 12.843 | -0.000 | 8393   | 7.1        |  |
| Aroclor-1268             | 4     | 13.439 | 0.001  | 49821  | 14.7                     | 4        | 13.661 | -0.002 | 39480  | 10.4       |  |
| Total CollAve (4 peaks): |       |        |        | 71.2   | Total Col2Ave (4 peaks): |          |        |        | 68.6   | RPD = 4    |  |

Corrected Ave (3 peaks): 56.9      Corrected Ave (3 peaks): 40.0      RPD = 35

Total PCB Area Col1 (5.842 - 13.740) = 2870829      Col1 Total PCB = 0.4 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 1885829      Col2 Total PCB = 0.5 ppm\*

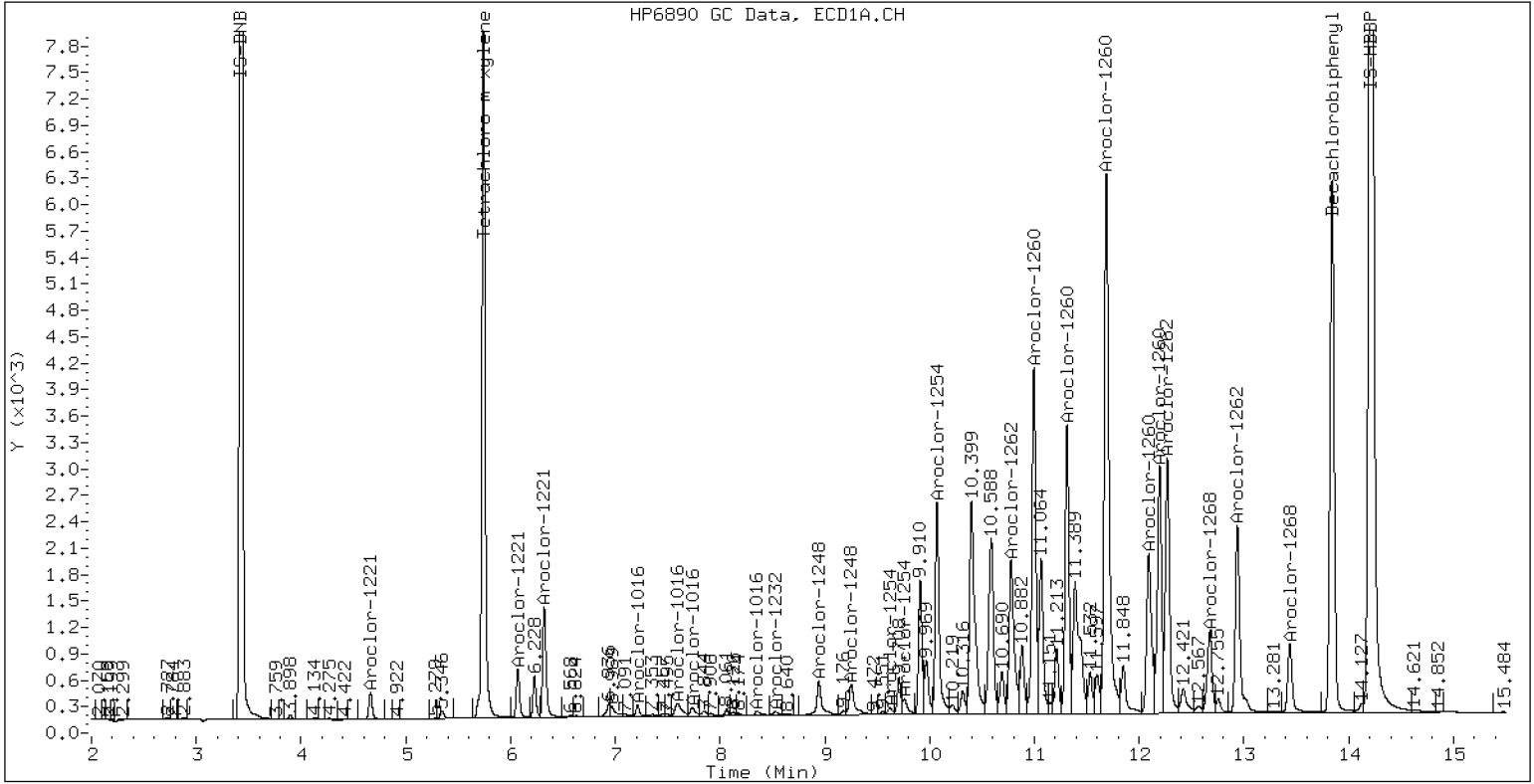
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV

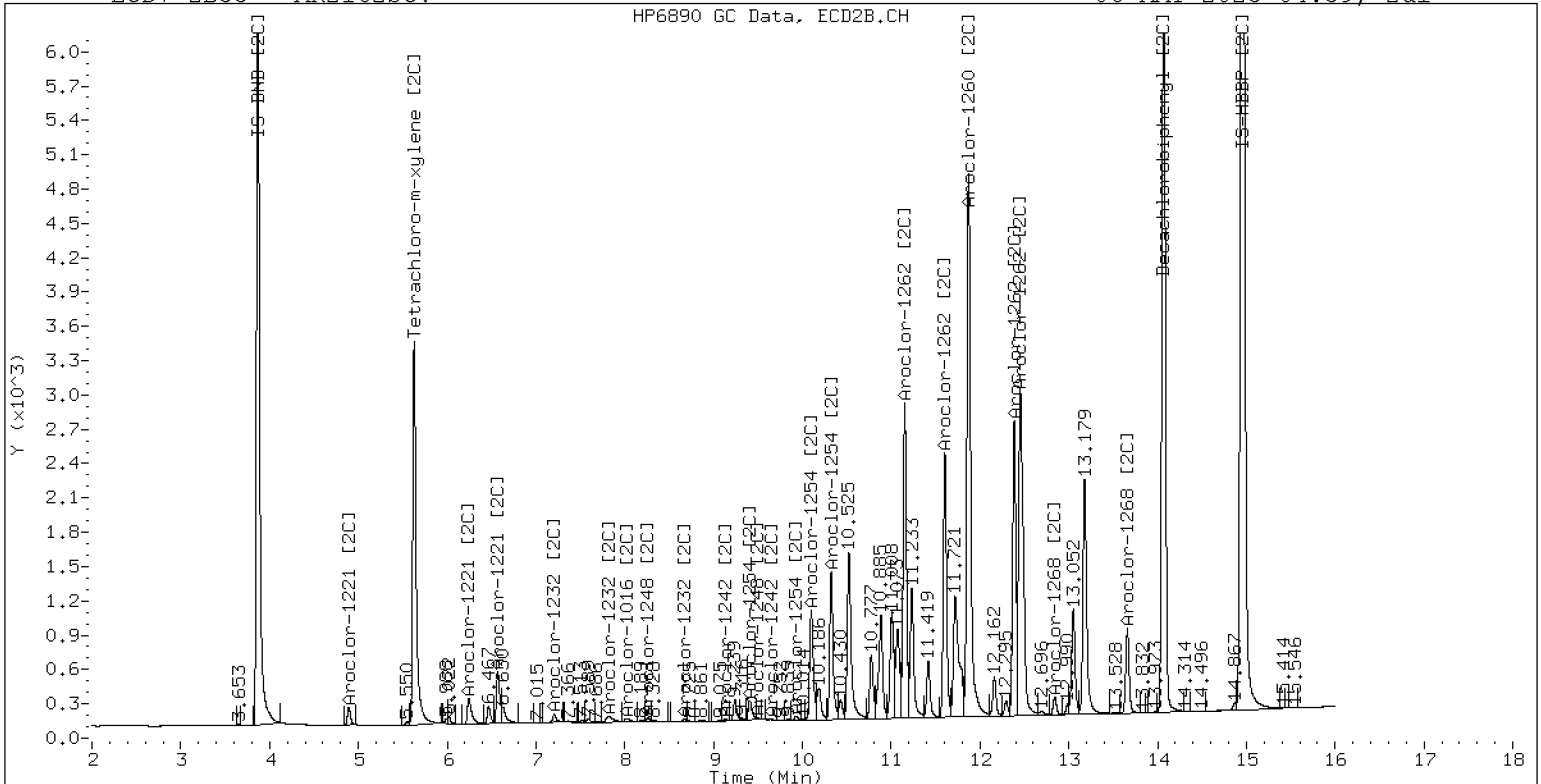
06-MAY-2023 04:39, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV

06-MAY-2023 04:39, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052337ECD7.D  
Data file 2: /230505.b/230505.b/05052337ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR3268SCV  
Client ID:  
Injection Date: 06-MAY-2023 05:00  
Report Date: 05/06/2023 11:31  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.743  | 0.001         | 373749   | 5.629  | 0.001          | 196946   | 38.4       | 40.4        | 5.2 | Tetrachloro-m-xylene |
| 13.842 | 0.002         | 525409   | 14.069 | 0.001          | 586548   | 55.1       | 59.3        | 7.4 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 646456      | 7.5 |
| Hexabromobiphenyl  | 876625         | 954969      | 8.9 |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 354120      | 1.4 |
| Hexabromobiphenyl  | 652984         | 696139      | 6.6 |

\* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 05-MAY-2023

<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                  |       |        |        |        |        | ZB35 Col                 |        |        |         |                  |
|--------------------------|-------|--------|--------|--------|--------|--------------------------|--------|--------|---------|------------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount | Peak#                    | RT     | Shift  | Area    | Amount           |
| Aroclor-1016             | 1     | 7.214  | 0.001  | 28623  | 114.3  | 1                        | 7.205  | 0.002  | 23124   | 115.4            |
| Aroclor-1016             | 2     | 7.597  | 0.002  | 85721  | 109.5  | 2                        | 7.815  | 0.007  | 47496   | 111.2            |
| Aroclor-1016             | 3     | 7.735  | 0.002  | 41343  | 114.3  | 3                        | 8.014  | 0.008  | 24029   | 127.5            |
| Aroclor-1016             | 4     | 8.400  | 0.002  | 16653  | 111.6  | 4                        | 8.262  | 0.003  | 15421   | 103.0            |
| Total CollAve (4 peaks): |       |        |        | 112.4  |        | Total Col2Ave (4 peaks): |        |        |         | 114.3 RPD = 2    |
| Corrected Ave (3 peaks): |       |        |        | 111.8  |        | Corrected Ave (3 peaks): |        |        |         | 109.9 RPD = 2    |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1221             | 1     | 4.664  | 0.001  | 7272   | 159.9  | 1                        | 4.895  | 0.000  | 4045    | 154.9            |
| Aroclor-1221             | 2     | 6.070  | 0.001  | 13478  | 147.8  | 2                        | 6.246  | 0.000  | 9235    | 170.6            |
| Aroclor-1221             | 3     | 6.321  | 0.001  | 43831  | 202.3  | 3                        | 6.572  | 0.000  | 24300   | 285.4            |
| Total CollAve (3 peaks): |       |        |        | 170.0  |        | Total Col2Ave (3 peaks): |        |        |         | 203.6 RPD = 18   |
| Corrected Ave: < 3 Peaks |       |        |        |        |        | Corrected Ave: < 3 Peaks |        |        |         |                  |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1232             | 1     | 4.664  | 0.001  | 7272   | 240.1  | 1                        | 4.895  | 0.001  | 4045    | 294.5            |
| Aroclor-1232             | 2     | 6.070  | 0.001  | 13478  | 213.9  | 2                        | 7.205  | 0.001  | 23124   | 294.1            |
| Aroclor-1232             | 3     | 7.597  | 0.002  | 85721  | 285.5  | 3                        | 7.815  | 0.000  | 47496   | 300.7            |
| Aroclor-1232             | 4     | 8.527  | 0.000  | 36809  | 286.5  | 4                        | 8.669  | -0.000 | 14324   | 313.2            |
| Total CollAve (4 peaks): |       |        |        | 256.5  |        | Total Col2Ave (4 peaks): |        |        |         | 300.6 RPD = 16   |
| Corrected Ave (3 peaks): |       |        |        | 246.5  |        | Corrected Ave (3 peaks): |        |        |         | 296.5 RPD = 18   |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1242             | 1     | 7.214  | 0.002  | 28623  | 140.5  | 1                        | 7.205  | 0.002  | 23124   | 146.1            |
| Aroclor-1242             | 2     | 7.597  | 0.002  | 85721  | 132.8  | 2                        | 7.815  | 0.002  | 47496   | 141.1            |
| Aroclor-1242             | 3     | 8.400  | 0.002  | 16653  | 133.4  | 3                        | 9.128  | 0.005  | 14403   | 133.4            |
| Aroclor-1242             | 4     | 8.527  | 0.003  | 36809  | 127.4  | 4                        | 9.648  | 0.098  | 5512    | 42.4             |
| Total CollAve (4 peaks): |       |        |        | 133.5  |        | Total Col2Ave (4 peaks): |        |        |         | 115.7 RPD = 14   |
| Corrected Ave (3 peaks): |       |        |        | 131.2  |        | Corrected Ave (3 peaks): |        |        |         | 105.6 RPD = 22   |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1248             | 1     | 8.400  | 0.001  | 16653  | 100.9  | 1                        | 8.262  | 0.002  | 15421   | 91.5             |
| Aroclor-1248             | 2     | 8.527  | 0.003  | 36809  | 85.8   | 2                        | 8.669  | 0.002  | 14324   | 80.5             |
| Aroclor-1248             | 3     | 8.944  | 0.000  | 89377  | 108.4  | 3                        | 9.128  | 0.008  | 14403   | 69.0             |
| Aroclor-1248             | 4     | 9.238  | -0.005 | 41570  | 98.9   | 4                        | 9.560  | 0.015  | 17331   | 69.3             |
| Total CollAve (4 peaks): |       |        |        | 98.5   |        | Total Col2Ave (4 peaks): |        |        |         | 77.6 RPD = 24    |
| Corrected Ave (3 peaks): |       |        |        | 95.2   |        | Corrected Ave (3 peaks): |        |        |         | 72.9 RPD = 26    |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1254             | 1     | 9.238  | -0.008 | 41570  | 62.6   | 1                        | 9.407  | 0.003  | 5487    | 20.4             |
| Aroclor-1254             | 2     | 9.326  | 0.001  | 12640  | 42.3   | 2                        | 9.560  | 0.061  | 17331   | 108.4            |
| Aroclor-1254             | 3     | 9.624  | 0.006  | 7232   | 16.9   | 3                        | 9.929  | 0.005  | 3481    | 16.0             |
| Aroclor-1254             | 4     | 9.764  | 0.008  | 11671  | 13.9   | 4                        | 10.086 | 0.009  | 7259    | 15.3             |
| Aroclor-1254             | 5     | 10.139 | 0.014  | 7544   | 14.9   | 5                        | 10.345 | 0.017  | 6610    | 14.0             |
| Total CollAve (5 peaks): |       |        |        | 30.1   |        | Total Col2Ave (5 peaks): |        |        |         | 34.8 RPD = 14    |
| Corrected Ave (4 peaks): |       |        |        | 22.0   |        | Corrected Ave (4 peaks): |        |        |         | 16.4 RPD = 29    |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1260             | 1     | 10.998 | 0.005  | 85093  | 168.5  | 1                        | 11.598 | -0.008 | 75237   | 203.5            |
| Aroclor-1260             | 2     | 11.313 | 0.003  | 6363   | 12.8   | 2                        | 11.873 | 0.001  | 33655   | 34.8             |
| Aroclor-1260             | 3     | 11.688 | 0.002  | 47857  | 38.3   | 3                        | 12.384 | -0.004 | 346138  | 1444.4           |
| Aroclor-1260             | 4     | 12.094 | 0.004  | 1291   | 2.1    | 4                        | 12.453 | -0.002 | 373218  | 577.8            |
| Aroclor-1260             | 5     | 12.195 | 0.001  | 406211 | 1523.9 | NS                       | ---    |        |         | ----             |
| Total CollAve (5 peaks): |       |        |        | 349.1  |        | Total Col2Ave (4 peaks): |        |        |         | 565.1 RPD = 47*  |
| Corrected Ave (4 peaks): |       |        |        | 55.4   |        | Corrected Ave (3 peaks): |        |        |         | 272.0 RPD = 132* |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1262             | 1     | 10.785 | 0.006  | 4006   | 9.3    | 1                        | 11.156 | 0.002  | 52531   | 93.1             |
| Aroclor-1262             | 2     | 12.195 | 0.000  | 406211 | 668.6  | 2                        | 11.598 | -0.007 | 75237   | 158.2            |
| Aroclor-1262             | 3     | 12.268 | -0.002 | 403730 | 618.2  | 3                        | 12.384 | -0.002 | 346138  | 665.8            |
| Aroclor-1262             | 4     | 12.937 | -0.002 | 145536 | 273.5  | 4                        | 12.453 | -0.002 | 373218  | 440.5            |
| Total CollAve (4 peaks): |       |        |        | 392.4  |        | Total Col2Ave (4 peaks): |        |        |         | 339.4 RPD = 14   |
| Corrected Ave (3 peaks): |       |        |        | 300.3  |        | Corrected Ave (3 peaks): |        |        |         | 230.6 RPD = 26   |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1268             | 1     | 12.195 | -0.001 | 406211 | 266.7  | 1                        | 12.384 | -0.001 | 346138  | 262.7            |
| Aroclor-1268             | 2     | 12.268 | -0.000 | 403730 | 266.9  | 2                        | 12.453 | 0.001  | 373218  | 263.5            |
| Aroclor-1268             | 3     | 12.648 | -0.000 | 323568 | 266.0  | 3                        | 12.844 | 0.001  | 316122  | 260.6            |
| Aroclor-1268             | 4     | 13.439 | 0.002  | 920777 | 265.1  | 4                        | 13.663 | 0.000  | 1029335 | 264.8            |
| Total CollAve (4 peaks): |       |        |        | 266.2  |        | Total Col2Ave (4 peaks): |        |        |         | 262.9 RPD = 1    |

Corrected Ave (3 peaks): 265.9      Corrected Ave (3 peaks): 262.3      RPD = 1

Total PCB Area Col1 (5.842 - 13.740) = 3325332      Col1 Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 2876097      Col2 Total PCB = 0.7 ppm\*

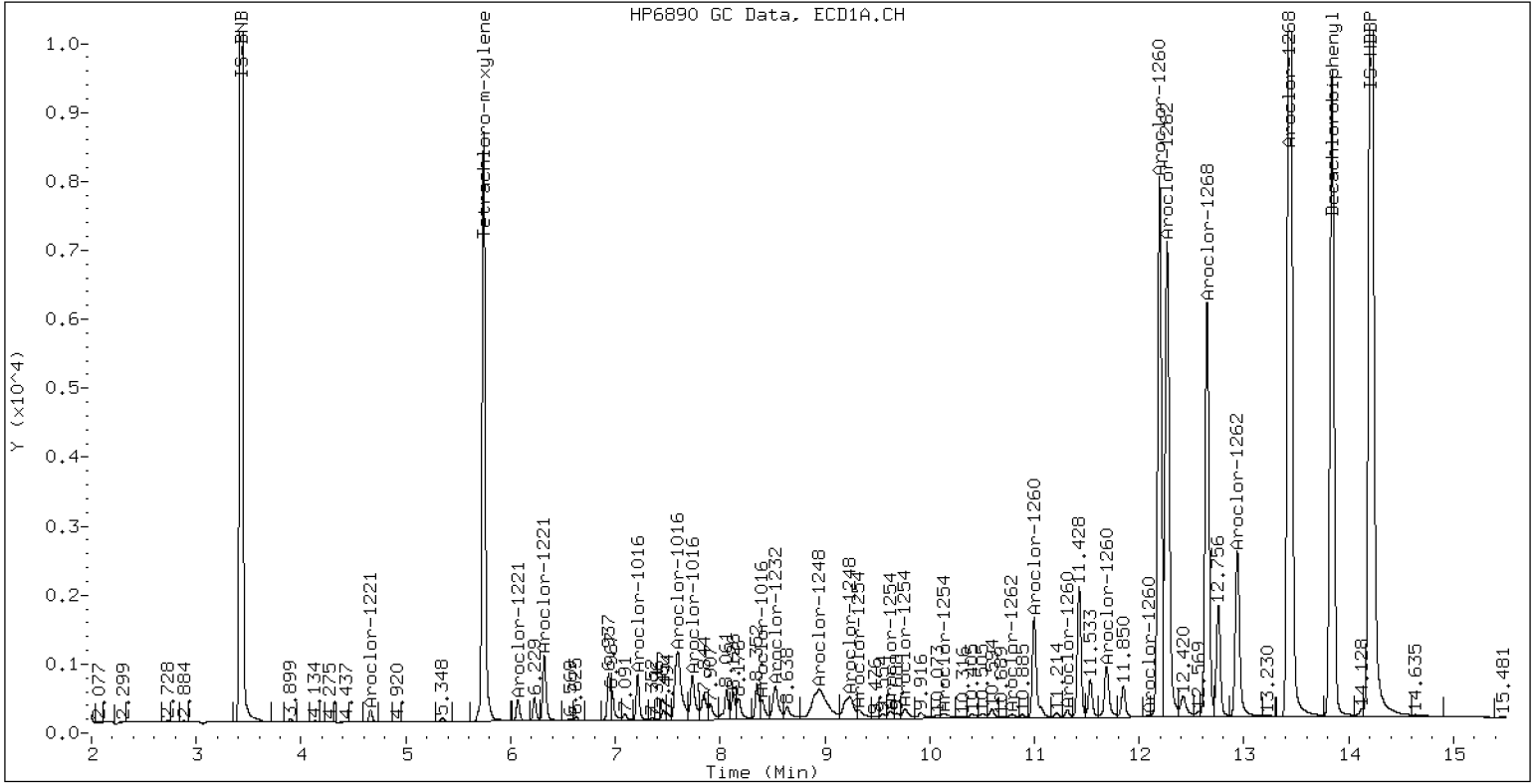
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV

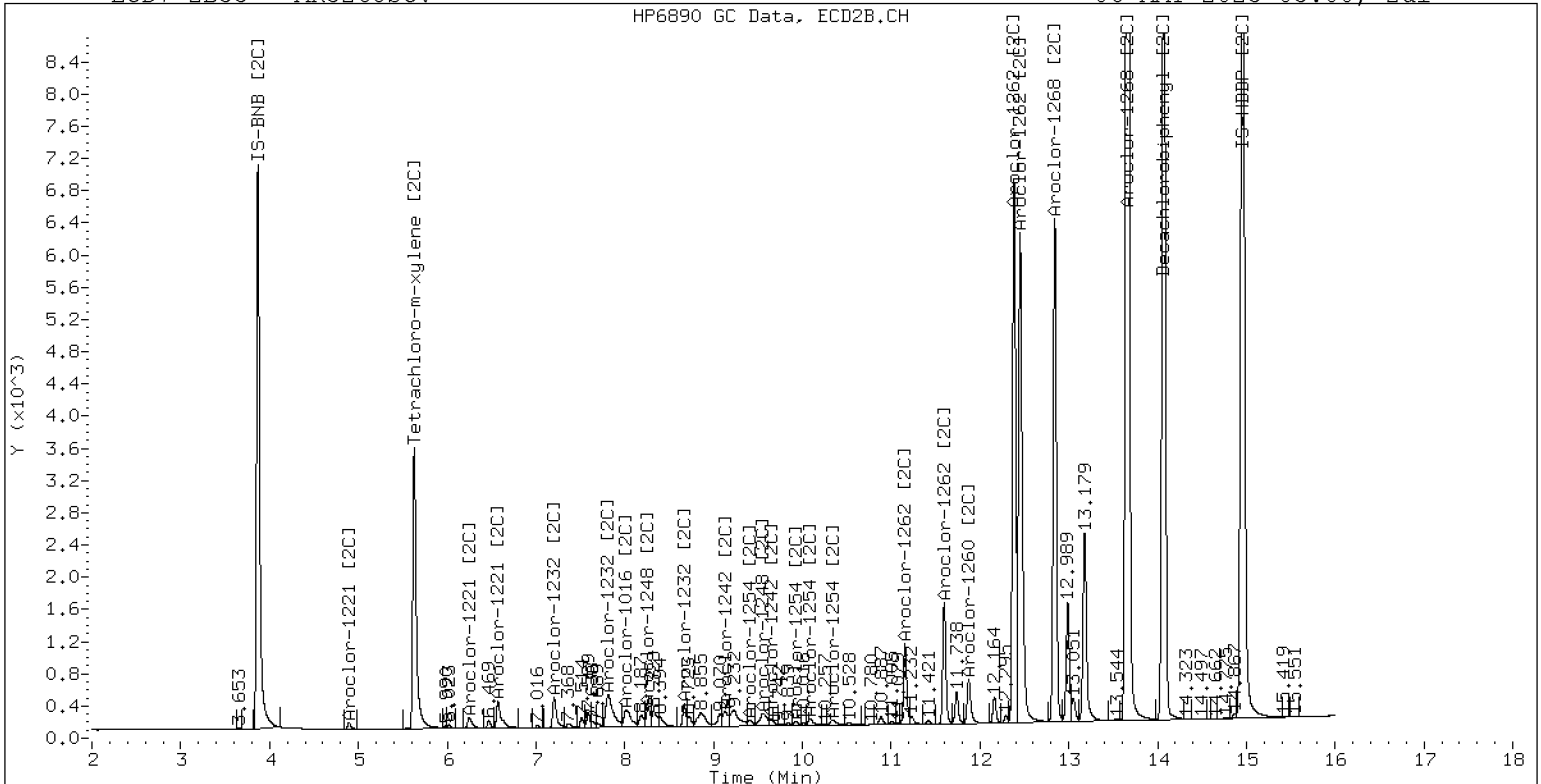
06-MAY-2023 05:00, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV

06-MAY-2023 05:00, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
8082 DDT SCREEN REPORT

Data file 1: /230505.b/05052338ECD7.D

ARI ID: DDTS

| RT     | ZB5 Col<br>Shift Response |         | ZB35 Col<br>Shift Response |       | ZB5<br>on col | ZB35<br>on col | RPD    | Compound/Flag |         |
|--------|---------------------------|---------|----------------------------|-------|---------------|----------------|--------|---------------|---------|
| 9.206  | 0.000                     | 428189  | 9.867                      | 0.000 | 428008        | 0.100          | 0.000  | ----          | 2,4-DDE |
| 0.000  | -10.293                   | 0       | 10.625                     | 0.000 | 621468        | 0.000          | 0.000# | ----          | 2,4-DDT |
| 9.635  | 0.000                     | 1004111 | 10.165                     | 0.000 | 369270        | 0.100          | 0.000  | ----          | 4,4-DDE |
| 10.243 | 0.000                     | 476377  | 10.625                     | 0.000 | 621468        | 0.100          | 0.000# | ----          | 4,4-DDD |

# Indicates value is from co-eluting peaks

\* Indicates RPD > 40%

Analytical Resources Inc.  
8082 DDT SCREEN REPORT

Data file 1: /230505.b/05052339ECD7.D

ARI ID: DDT BD

| RT     | ZB5 Col<br>Shift Response | ZB35 Col<br>Shift Response | ZB5<br>on col | ZB35<br>on col | RPD  | Compound/Flag |
|--------|---------------------------|----------------------------|---------------|----------------|------|---------------|
| 9.158  | -0.049 12021              | 9.884 0.017 17091          | 0.002         | 0.000          | ---- | 2,4-DDE       |
| 0.000  | -10.293 0                 | 10.633 0.008 326807        | 0.000         | 0.000#         | ---- | 2,4-DDT       |
| 9.644  | 0.009 16770               | 10.190 0.025 488           | 0.001         | 0.000          | ---- | 4,4-DDE       |
| 10.216 | -0.028 403865             | 10.633 0.008 326807        | 0.068         | 0.000#         | ---- | 4,4-DDD       |

# Indicates value is from co-eluting peaks

\* Indicates RPD > 40%



ANALYSIS SEQUENCE

SLE0079

Instrument: ECD7  
Calibration ID: GE00022

Printed: 5/6/2023 11:44:56AM

| Lab Number   | Analysis | Container | Order | Position | STD ID  | ISTD ID | Client | Comments |
|--------------|----------|-----------|-------|----------|---------|---------|--------|----------|
| SLE0079-CAL1 | QC       |           | 1     |          | L000856 | L000844 |        |          |
| SLE0079-CAL2 | QC       |           | 2     |          | L000859 | L000844 |        |          |
| SLE0079-CAL3 | QC       |           | 3     |          | L000858 | L000844 |        |          |
| SLE0079-CAL4 | QC       |           | 4     |          | L000731 | L000844 |        |          |
| SLE0079-CAL5 | QC       |           | 5     |          | L000857 | L000844 |        |          |
| SLE0079-CAL6 | QC       |           | 6     |          | L000855 | L000844 |        |          |
| SLE0079-CAL7 | QC       |           | 7     |          | L000860 | L000844 |        |          |
| SLE0079-CAL8 | QC       |           | 8     |          | L000861 | L000844 |        |          |
| SLE0079-CAL9 | QC       |           | 9     |          | L000862 | L000844 |        |          |
| SLE0079-CALA | QC       |           | 10    |          | L004996 | L000844 |        |          |
| SLE0079-CALB | QC       |           | 11    |          | L004997 | L000844 |        |          |
| SLE0079-SCV1 | QC       |           | 12    |          | L002065 | L000844 |        |          |
| SLE0079-SCV2 | QC       |           | 13    |          | L003970 | L000844 |        |          |
| SLE0079-SCV3 | QC       |           | 14    |          | L002066 | L000844 |        |          |
| SLE0079-SCV4 | QC       |           | 15    |          | L002067 | L000844 |        |          |
| SLE0079-SCV5 | QC       |           | 16    |          | L002068 | L000844 |        |          |
| SLE0079-SCV6 | QC       |           | 17    |          | L002069 | L000844 |        |          |

\_\_\_\_\_  
Samples Loaded By                      Date

\_\_\_\_\_  
Data Processed By                      Date

## GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230505.b

|    | Inject      | Date/Time | Filename       | DF | LabID         | ClientID |
|----|-------------|-----------|----------------|----|---------------|----------|
| 1  | 05-MAY-2023 | 23:06     | 05052320ECD7.D | 1  | IB            |          |
| 2  | 05-MAY-2023 | 23:26     | 05052321ECD7.D | 1  | 0.25PPMAR1660 |          |
| 3  | 05-MAY-2023 | 23:47     | 05052322ECD7.D | 1  | 0.02PPMAR1660 |          |
| 4  | 06-MAY-2023 | 00:08     | 05052323ECD7.D | 1  | 0.05PPMAR1660 |          |
| 5  | 06-MAY-2023 | 00:29     | 05052324ECD7.D | 1  | 1.0PPMAR1660  |          |
| 6  | 06-MAY-2023 | 00:50     | 05052325ECD7.D | 1  | 0.1PPMAR1660  |          |
| 7  | 06-MAY-2023 | 01:11     | 05052326ECD7.D | 1  | 0.5PPMAR1660  |          |
| 8  | 06-MAY-2023 | 01:31     | 05052327ECD7.D | 1  | 0.25PPMAR1242 |          |
| 9  | 06-MAY-2023 | 01:52     | 05052328ECD7.D | 1  | 0.25PPMAR1248 |          |
| 10 | 06-MAY-2023 | 02:13     | 05052329ECD7.D | 1  | 0.25PPMAR1254 |          |
| 11 | 06-MAY-2023 | 02:34     | 05052330ECD7.D | 1  | 0.25PPMAR2162 |          |
| 12 | 06-MAY-2023 | 02:55     | 05052331ECD7.D | 1  | 0.25PPMAR3268 |          |
| 13 | 06-MAY-2023 | 03:16     | 05052332ECD7.D | 1  | AR1660SCV     |          |
| 14 | 06-MAY-2023 | 03:36     | 05052333ECD7.D | 1  | AR1242SCV     |          |
| 15 | 06-MAY-2023 | 03:57     | 05052334ECD7.D | 1  | AR1248SCV     |          |
| 16 | 06-MAY-2023 | 04:18     | 05052335ECD7.D | 1  | AR1254SCV     |          |
| 17 | 06-MAY-2023 | 04:39     | 05052336ECD7.D | 1  | AR2162SCV     |          |
| 18 | 06-MAY-2023 | 05:00     | 05052337ECD7.D | 1  | AR3268SCV     |          |
| 19 | 06-MAY-2023 | 05:21     | 05052338ECD7.D | 1  | DDTS          |          |
| 20 | 06-MAY-2023 | 05:41     | 05052339ECD7.D | 1  | DDT BD        |          |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230505.b

ARI Job No.:        Method: PCB.m    Instrument: ecd7.i    Date: 05-MAY-2023

| Time | Filename       | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|-------|----------|----|-------------------------------|
| 1548 | 05052301ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1609 | 05052302ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1711 | 05052303ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1732 | 05052304ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1753 | 05052305ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1814 | 05052306ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1835 | 05052307ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1856 | 05052308ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1916 | 05052309ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1937 | 05052310ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1958 | 05052311ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 2019 | 05052312ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 2040 | 05052313ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 2101 | 05052314ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 2121 | 05052315ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 2142 | 05052316ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 2203 | 05052317ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |



MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230505.b

| Time | Filename       | LabID         | ClientId | DF | Manually Integrated Compounds |
|------|----------------|---------------|----------|----|-------------------------------|
| 2224 | 05052318ECD7.D |               |          | 1  | NO MANUAL INTEGRATION         |
| 2245 | 05052319ECD7.D |               |          | 1  | NO MANUAL INTEGRATION         |
| 2306 | 05052320ECD7.D | IB            |          | 1  | NO MANUAL INTEGRATION         |
| 2326 | 05052321ECD7.D | 0.25PPMAR1660 |          | 1  | NO MANUAL INTEGRATION         |
| 2347 | 05052322ECD7.D | 0.02PPMAR1660 |          | 1  | NO MANUAL INTEGRATION         |
| 0008 | 05052323ECD7.D | 0.05PPMAR1660 |          | 1  | NO MANUAL INTEGRATION         |
| 0029 | 05052324ECD7.D | 1.0PPMAR1660  |          | 1  | NO MANUAL INTEGRATION         |
| 0050 | 05052325ECD7.D | 0.1PPMAR1660  |          | 1  | NO MANUAL INTEGRATION         |
| 0111 | 05052326ECD7.D | 0.5PPMAR1660  |          | 1  | NO MANUAL INTEGRATION         |
| 0131 | 05052327ECD7.D | 0.25PPMAR1242 |          | 1  | NO MANUAL INTEGRATION         |
| 0152 | 05052328ECD7.D | 0.25PPMAR1248 |          | 1  | NO MANUAL INTEGRATION         |
| 0213 | 05052329ECD7.D | 0.25PPMAR1254 |          | 1  | NO MANUAL INTEGRATION         |
| 0234 | 05052330ECD7.D | 0.25PPMAR2162 |          | 1  | NO MANUAL INTEGRATION         |
| 0255 | 05052331ECD7.D | 0.25PPMAR3268 |          | 1  | NO MANUAL INTEGRATION         |
| 0316 | 05052332ECD7.D | AR1660SCV     |          | 1  | NO MANUAL INTEGRATION         |
| 0336 | 05052333ECD7.D | AR1242SCV     |          | 1  | NO MANUAL INTEGRATION         |
| 0357 | 05052334ECD7.D | AR1248SCV     |          | 1  | NO MANUAL INTEGRATION         |
| 0418 | 05052335ECD7.D | AR1254SCV     |          | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230505.b

| Time | Filename       | LabID     | ClientId | DF | Manually Integrated Compounds |
|------|----------------|-----------|----------|----|-------------------------------|
| 0439 | 05052336ECD7.D | AR2162SCV |          | 1  | NO MANUAL INTEGRATION         |
| 0500 | 05052337ECD7.D | AR3268SCV |          | 1  | NO MANUAL INTEGRATION         |
| 0521 | 05052338ECD7.D | DDTS      |          | 1  | NO MANUAL INTEGRATION         |
| 0541 | 05052339ECD7.D | DDT BD    |          | 1  | NO MANUAL INTEGRATION         |
| 1548 | 05052301ECD7.D | RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 1609 | 05052302ECD7.D | RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 1711 | 05052303ECD7.D | HEX RINSE |          | 1  | NO MANUAL INTEGRATION         |
| 1732 | 05052304ECD7.D | HEX RINSE |          | 1  | NO MANUAL INTEGRATION         |
| 1753 | 05052305ECD7.D | HEX RINSE |          | 1  | NO MANUAL INTEGRATION         |
| 1814 | 05052306ECD7.D | HEX RINSE |          | 1  | NO MANUAL INTEGRATION         |
| 1835 | 05052307ECD7.D | HEX RINSE |          | 1  | NO MANUAL INTEGRATION         |
| 1856 | 05052308ECD7.D | HEX RINSE |          | 1  | NO MANUAL INTEGRATION         |
| 1916 | 05052309ECD7.D | RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 1937 | 05052310ECD7.D | RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 1958 | 05052311ECD7.D | RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2019 | 05052312ECD7.D | RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2040 | 05052313ECD7.D | RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2101 | 05052314ECD7.D | HEX RINSE |          | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230505.b\230505.b

| Time | Filename       | LabID         | ClientId | DF | Manually Integrated Compounds |
|------|----------------|---------------|----------|----|-------------------------------|
| 2121 | 05052315ECD7.D | HEX RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2142 | 05052316ECD7.D | HEX RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2203 | 05052317ECD7.D | HEX RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2224 | 05052318ECD7.D | HEX RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2245 | 05052319ECD7.D | HEX RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2306 | 05052320ECD7.D | IB            |          | 1  | NO MANUAL INTEGRATION         |
| 2326 | 05052321ECD7.D | 0.25PPMAR1660 |          | 1  | NO MANUAL INTEGRATION         |
| 2347 | 05052322ECD7.D | 0.02PPMAR1660 |          | 1  | Aroclor-1016 [2C],            |
| 0008 | 05052323ECD7.D | 0.05PPMAR1660 |          | 1  | Aroclor-1016 [2C],            |
| 0029 | 05052324ECD7.D | 1.0PPMAR1660  |          | 1  | NO MANUAL INTEGRATION         |
| 0050 | 05052325ECD7.D | 0.1PPMAR1660  |          | 1  | Aroclor-1016 [2C],            |
| 0111 | 05052326ECD7.D | 0.5PPMAR1660  |          | 1  | NO MANUAL INTEGRATION         |
| 0132 | 05052327ECD7.D | 0.25PPMAR1242 |          | 1  | Aroclor-1242 [2C],            |
| 0152 | 05052328ECD7.D | 0.25PPMAR1248 |          | 1  | NO MANUAL INTEGRATION         |
| 0213 | 05052329ECD7.D | 0.25PPMAR1254 |          | 1  | NO MANUAL INTEGRATION         |
| 0234 | 05052330ECD7.D | 0.25PPMAR2162 |          | 1  | NO MANUAL INTEGRATION         |
| 0255 | 05052331ECD7.D | 0.25PPMAR3268 |          | 1  | NO MANUAL INTEGRATION         |
| 0316 | 05052332ECD7.D | AR1660SCV     |          | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230505.b\230505.b

| Time | Filename       | LabID     | ClientId | DF | Manually Integrated Compounds |
|------|----------------|-----------|----------|----|-------------------------------|
| 0336 | 05052333ECD7.D | AR1242SCV |          | 1  | Aroclor-1242 [2C],            |
| 0357 | 05052334ECD7.D | AR1248SCV |          | 1  | NO MANUAL INTEGRATION         |
| 0418 | 05052335ECD7.D | AR1254SCV |          | 1  | NO MANUAL INTEGRATION         |
| 0439 | 05052336ECD7.D | AR2162SCV |          | 1  | NO MANUAL INTEGRATION         |
| 0500 | 05052337ECD7.D | AR3268SCV |          | 1  | NO MANUAL INTEGRATION         |
| 0521 | 05052338ECD7.D | DDTS      |          | 1  | NO MANUAL INTEGRATION         |
| 0541 | 05052339ECD7.D | DDT BD    |          | 1  | NO MANUAL INTEGRATION         |

Security Status Report

Date: 06-May-2023 09:12

|                |             |                             |
|----------------|-------------|-----------------------------|
| 05052320ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052321ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052322ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052323ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052324ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052325ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052326ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052327ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052328ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052329ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052330ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052331ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052332ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052333ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052334ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052335ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052336ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052337ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052338ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052339ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2023 23:26  
 End Cal Date : 06-MAY-2023 05:21  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230505.b\PCB.m  
 Last Edit : 06-May-2023 09:04 ecd7.i  
 Curve Type : Average

Calibration File Names:

Level 1: \\target\share\chem4\ecd7.i\230505.b\05052322ECD7.D  
 Level 2: \\target\share\chem4\ecd7.i\230505.b\05052323ECD7.D  
 Level 3: \\target\share\chem4\ecd7.i\230505.b\05052325ECD7.D  
 Level 4: \\target\share\chem4\ecd7.i\230505.b\05052321ECD7.D  
 Level 5: \\target\share\chem4\ecd7.i\230505.b\05052326ECD7.D  
 Level 6: \\target\share\chem4\ecd7.i\230505.b\05052324ECD7.D  
 Level 7: \\target\share\chem4\ecd7.i\230505.b\05052331ECD7.D  
 Level 8: \\target\share\chem4\ecd7.i\230505.b\05052338ECD7.D

| Compound          | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| 2 Aroclor-1221(1) | 0.00563           | 0.000e+00         |                    |                    |                    |                     | 0.00563 | 0.000 |
| (2)               | 0.01129           |                   |                    |                    |                    |                     | 0.01129 | 0.000 |
| (3)               | 0.02681           |                   |                    |                    |                    |                     | 0.02681 | 0.000 |
| 3 Aroclor-1242(1) | 0.02521           |                   |                    |                    |                    |                     | 0.02521 | 0.000 |
| (2)               | 0.07988           |                   |                    |                    |                    |                     | 0.07988 | 0.000 |
| (3)               | 0.01545           |                   |                    |                    |                    |                     | 0.01545 | 0.000 |
| (4)               | 0.03576           |                   |                    |                    |                    |                     | 0.03576 | 0.000 |
| 4 Aroclor-1232(1) | 0.00375           |                   |                    |                    |                    |                     | 0.00375 | 0.000 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2023 23:26  
 End Cal Date : 06-MAY-2023 05:21  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230505.b\PCB.m  
 Last Edit : 06-May-2023 09:04 ecd7.i  
 Curve Type : Average

| Compound          | 20.000<br>Level 1  | 50.000<br>Level 2    | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD  |
|-------------------|--------------------|----------------------|--------------------|--------------------|--------------------|---------------------|---------|--------|
|                   | 250.000<br>Level 7 | 0.000e+00<br>Level 8 |                    |                    |                    |                     |         |        |
| (2)               | ++++<br>0.00780    | ++++<br>++++         | ++++<br>++++       | ++++<br>++++       | ++++<br>++++       | ++++<br>++++        | 0.00780 | 0.000  |
| (3)               | ++++<br>0.03715    | ++++<br>++++         | ++++<br>++++       | ++++<br>++++       | ++++<br>++++       | ++++<br>++++        | 0.03715 | 0.000  |
| (4)               | ++++<br>0.01590    | ++++<br>++++         | ++++<br>++++       | ++++<br>++++       | ++++<br>++++       | ++++<br>++++        | 0.01590 | 0.000  |
| 7 Aroclor-1016(1) | 0.03259<br>++++    | 0.03226<br>++++      | 0.03462            | 0.03138            | 0.02909            | 0.02592             | 0.03098 | 9.876  |
| (2)               | 0.08782<br>++++    | 0.09418<br>++++      | 0.10520            | 0.10209            | 0.09934            | 0.09254             | 0.09686 | 6.702  |
| (3)               | 0.04375<br>++++    | 0.04849<br>++++      | 0.05094            | 0.04519            | 0.04205            | 0.03826             | 0.04478 | 10.130 |
| (4)               | 0.01716<br>++++    | 0.01921<br>++++      | 0.02127            | 0.01901            | 0.01783            | 0.01637             | 0.01847 | 9.437  |
| 6 Aroclor-1248(1) | ++++<br>0.02042    | ++++<br>++++         | ++++               | ++++               | ++++               | ++++                | 0.02042 | 0.000  |
| (2)               | ++++<br>0.05306    | ++++<br>++++         | ++++               | ++++               | ++++               | ++++                | 0.05306 | 0.000  |
| (3)               | ++++<br>0.10205    | ++++<br>++++         | ++++               | ++++               | ++++               | ++++                | 0.10205 | 0.000  |
| (4)               | ++++<br>0.05202    | ++++<br>++++         | ++++               | ++++               | ++++               | ++++                | 0.05202 | 0.000  |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2023 23:26  
 End Cal Date : 06-MAY-2023 05:21  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230505.b\PCB.m  
 Last Edit : 06-May-2023 09:04 ecd7.i  
 Curve Type : Average

| Compound            | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|---------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| 8 Aroclor-1254 (1)  | 0.08222           | 0.000e+00         |                    |                    |                    |                     | 0.08222 | 0.000 |
| (2)                 | 0.03694           |                   |                    |                    |                    |                     | 0.03694 | 0.000 |
| (3)                 | 0.05308           |                   |                    |                    |                    |                     | 0.05308 | 0.000 |
| (4)                 | 0.10397           |                   |                    |                    |                    |                     | 0.10397 | 0.000 |
| (5)                 | 0.06279           |                   |                    |                    |                    |                     | 0.06279 | 0.000 |
| 9 Aroclor-1260 (1)  | 0.04580           | 0.04187           | 0.04489            | 0.04230            | 0.04061            | 0.03834             | 0.04230 | 6.490 |
| (2)                 | 0.04434           | 0.04115           | 0.04438            | 0.04189            | 0.04043            | 0.03831             | 0.04175 | 5.623 |
| (3)                 | 0.11170           | 0.10434           | 0.11116            | 0.10510            | 0.10043            | 0.09464             | 0.10456 | 6.204 |
| (4)                 | 0.05460           | 0.05000           | 0.05382            | 0.05169            | 0.04996            | 0.04720             | 0.05121 | 5.355 |
| (5)                 | 0.02498           | 0.02246           | 0.02370            | 0.02202            | 0.02100            | 0.01982             | 0.02233 | 8.279 |
| 10 Aroclor-1262 (1) | 0.03619           |                   |                    |                    |                    |                     | 0.03619 | 0.000 |



ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2023 23:26  
 End Cal Date : 06-MAY-2023 05:21  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230505.b\PCB.m  
 Last Edit : 06-May-2023 09:04 ecd7.i  
 Curve Type : Average

| Compound           | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|--------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| (2)                | 0.05090           | 0.000e+00         |                    |                    |                    |                     | 0.05090 | 0.000 |
| (3)                | 0.05471           |                   |                    |                    |                    |                     | 0.05471 | 0.000 |
| (4)                | 0.04459           |                   |                    |                    |                    |                     | 0.04459 | 0.000 |
| 11 Aroclor-1268(1) | 0.12759           |                   |                    |                    |                    |                     | 0.12759 | 0.000 |
| (2)                | 0.12671           |                   |                    |                    |                    |                     | 0.12671 | 0.000 |
| (3)                | 0.10191           |                   |                    |                    |                    |                     | 0.10191 | 0.000 |
| (4)                | 0.29098           |                   |                    |                    |                    |                     | 0.29098 | 0.000 |
| 42 2,4-DDE         |                   | 636               |                    |                    |                    |                     | 636     | 0.000 |
| 43 2,4-DDD         |                   | 1208              |                    |                    |                    |                     | 1208    | 0.000 |
| 44 2,4-DDT         |                   |                   |                    |                    |                    |                     |         |       |
| 46 4,4-DDE         |                   | 1492              |                    |                    |                    |                     | 1492    | 0.000 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2023 23:26  
 End Cal Date : 06-MAY-2023 05:21  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230505.b\PCB.m  
 Last Edit : 06-May-2023 09:04 ecd7.i  
 Curve Type : Average

| Compound               | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| 47 4,4-DDD             | +++++             | +++++<br>708      | +++++              | +++++              | +++++              | +++++               | 708     | 0.000 |
| 48 4,4-DDT             | +++++             | +++++<br>630      | +++++              | +++++              | +++++              | +++++               | 630     | 0.000 |
| 49 Hexachlorobutadiene | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | +++++   | +++++ |
| 50 Hexachlorobenzene   | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | +++++   | +++++ |
| 1 Tetrachloro-m-xylene | 1.21049           | 1.18252           | 1.29993            | 1.22669            | 1.16878            | 1.14053             | 1.20482 | 4.619 |
| 13 Decachlorobiphenyl  | 0.89752           | 0.83715           | 0.84851            | 0.77945            | 0.72713            | 0.70508             | 0.79914 | 9.361 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2023 23:26  
 End Cal Date : 06-MAY-2023 02:55  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230505.b\PCB.m\PCB2.m  
 Last Edit : 06-May-2023 11:14 ecd7.i  
 Curve Type : Average

Calibration File Names:

Level 1: \\target\share\chem4\ecd7.i\230505.b\230505.b\05052322ECD7.D  
 Level 2: \\target\share\chem4\ecd7.i\230505.b\230505.b\05052323ECD7.D  
 Level 3: \\target\share\chem4\ecd7.i\230505.b\230505.b\05052325ECD7.D  
 Level 4: \\target\share\chem4\ecd7.i\230505.b\230505.b\05052321ECD7.D  
 Level 5: \\target\share\chem4\ecd7.i\230505.b\230505.b\05052326ECD7.D  
 Level 6: \\target\share\chem4\ecd7.i\230505.b\230505.b\05052324ECD7.D  
 Level 7: \\target\share\chem4\ecd7.i\230505.b\230505.b\05052331ECD7.D

| Compound                | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|-------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| 1 Aroclor-1221 [2C] (1) | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.00590 | 0.000 |
| (2)                     | 0.01223           |                   |                    |                    |                    |                     | 0.01223 | 0.000 |
| (3)                     | 0.01924           |                   |                    |                    |                    |                     | 0.01924 | 0.000 |
| 4 Aroclor-1232 [2C] (1) | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.00310 | 0.000 |
| (2)                     | 0.01776           |                   |                    |                    |                    |                     | 0.01776 | 0.000 |
| (3)                     | 0.03568           |                   |                    |                    |                    |                     | 0.03568 | 0.000 |
| (4)                     | 0.01033           |                   |                    |                    |                    |                     | 0.01033 | 0.000 |
| 3 Aroclor-1242 [2C] (1) | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.03575 | 0.000 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2023 23:26  
 End Cal Date : 06-MAY-2023 02:55  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230505.b\PCB.m\PCB2.m  
 Last Edit : 06-May-2023 11:14 ecd7.i  
 Curve Type : Average

| Compound                | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD  |
|-------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|--------|
| (2)                     | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.07606 | 0.000  |
| (3)                     | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.02438 | 0.000  |
| (4)                     | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.02939 | 0.000  |
| 6 Aroclor-1248 [2C] (1) | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.03806 | 0.000  |
| (2)                     | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.04020 | 0.000  |
| (3)                     | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.04712 | 0.000  |
| (4)                     | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | 0.05651 | 0.000  |
| 7 Aroclor-1016 [2C] (1) | 0.05158           | 0.04743           | 0.04866            | 0.04443            | 0.04159            | 0.03802             | 0.04529 | 10.942 |
| (2)                     | 0.09850           | 0.09560           | 0.10183            | 0.09745            | 0.09528            | 0.09038             | 0.09651 | 3.959  |
| (3)                     | 0.04379           | 0.04462           | 0.04622            | 0.04230            | 0.04046            | 0.03801             | 0.04257 | 6.991  |
| (4)                     | 0.03635           | 0.03727           | 0.03735            | 0.03308            | 0.03084            | 0.02798             | 0.03381 | 11.400 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2023 23:26  
 End Cal Date : 06-MAY-2023 02:55  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230505.b\PCB.m\PCB2.m  
 Last Edit : 06-May-2023 11:14 ecd7.i  
 Curve Type : Average

| Compound                 | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|--------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| 8 Aroclor-1254 [2C] (1)  | ++++<br>0.06078   | ++++              | ++++               | ++++               | ++++               | ++++                | 0.06078 | 0.000 |
| (2)                      | ++++<br>0.03611   | ++++              | ++++               | ++++               | ++++               | ++++                | 0.03611 | 0.000 |
| (3)                      | ++++<br>0.04927   | ++++              | ++++               | ++++               | ++++               | ++++                | 0.04927 | 0.000 |
| (4)                      | ++++<br>0.10751   | ++++              | ++++               | ++++               | ++++               | ++++                | 0.10751 | 0.000 |
| (5)                      | ++++<br>0.10667   | ++++              | ++++               | ++++               | ++++               | ++++                | 0.10667 | 0.000 |
| 10 Aroclor-1262 [2C] (1) | ++++<br>0.06482   | ++++              | ++++               | ++++               | ++++               | ++++                | 0.06482 | 0.000 |
| (2)                      | ++++<br>0.05467   | ++++              | ++++               | ++++               | ++++               | ++++                | 0.05467 | 0.000 |
| (3)                      | ++++<br>0.05974   | ++++              | ++++               | ++++               | ++++               | ++++                | 0.05974 | 0.000 |
| (4)                      | ++++<br>0.09737   | ++++              | ++++               | ++++               | ++++               | ++++                | 0.09737 | 0.000 |
| 9 Aroclor-1260 [2C] (1)  | 0.04544<br>++++   | 0.04273           | 0.04504            | 0.04279            | 0.04076            | 0.03816             | 0.04249 | 6.408 |
| (2)                      | 0.11282<br>++++   | 0.11085           | 0.11919            | 0.11378            | 0.10815            | 0.10199             | 0.11113 | 5.208 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2023 23:26  
 End Cal Date : 06-MAY-2023 02:55  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230505.b\PCB.m\PCB2.m  
 Last Edit : 06-May-2023 11:14 ecd7.i  
 Curve Type : Average

| Compound                 | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | Level 7 | RRF     | % RSD |
|--------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|---------|-------|
| (3)                      | 0.02783           | 0.02652           | 0.02791            | 0.02780            | 0.02775            | 0.02743             |         | 0.02754 | 1.918 |
| (4)                      | 0.07670           | 0.07341           | 0.07861            | 0.07586            | 0.07265            | 0.06817             |         | 0.07423 | 4.962 |
| 11 Aroclor-1268 [2C] (1) | 0.15139           |                   |                    |                    |                    |                     |         | 0.15139 | 0.000 |
| (2)                      | 0.16276           |                   |                    |                    |                    |                     |         | 0.16276 | 0.000 |
| (3)                      | 0.13938           |                   |                    |                    |                    |                     |         | 0.13938 | 0.000 |
| (4)                      | 0.44675           |                   |                    |                    |                    |                     |         | 0.44675 | 0.000 |
| 41 2,4-DDE [2C]          |                   |                   |                    |                    |                    |                     |         |         |       |
| 42 2,4-DDD [2C]          |                   |                   |                    |                    |                    |                     |         |         |       |
| 44 4,4-DDE [2C]          |                   |                   |                    |                    |                    |                     |         |         |       |
| 45 4,4-DDD/2,4-DDT [2C]  |                   |                   |                    |                    |                    |                     |         |         |       |
| 46 4,4-DDT [2C]          |                   |                   |                    |                    |                    |                     |         |         |       |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2023 23:26  
 End Cal Date : 06-MAY-2023 02:55  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : HP Genie  
 Method file : \\target\share\chem4\ecd7.i\230505.b\PCB.m\PCB2.m  
 Last Edit : 06-May-2023 11:14 ecd7.i  
 Curve Type : Average

| Compound                       | 20.000<br>Level 1 | 50.000<br>Level 2 | 100.000<br>Level 3 | 250.000<br>Level 4 | 500.000<br>Level 5 | 1000.000<br>Level 6 | RRF     | % RSD |
|--------------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| 48 Hexachlorobutadiene         | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | +++++   | +++++ |
| 49 Hexachlorobenzene           | +++++             | +++++             | +++++              | +++++              | +++++              | +++++               | +++++   | +++++ |
| \$ 2 Tetrachloro-m-xylene [2C] | 1.09077           | 1.07641           | 1.18129            | 1.13054            | 1.07870            | 1.04559             | 1.10055 | 4.376 |
| \$ 13 Decachlorobiphenyl [2C]  | 1.04434           | 1.07403           | 1.22005            | 1.18343            | 1.16419            | 1.13004             | 1.13601 | 5.890 |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230505.b\PCB.m
Batch File: \\target\share\chem4\ecd7.i\230505.b
Inst ID: ecd7.i

ID: RT01 RT02 RT03 RT04 RT05 RT06
FILENAME: 05052321ECD7 05052322ECD7 05052323ECD7 05052324ECD7 05052325ECD7 05052326ECD7
INJ. DATE: 05-MAY-2023 05-MAY-2023 06-MAY-2023 06-MAY-2023 06-MAY-2023 06-MAY-2023
INJ. TIME: 23:26 23:47 00:08 00:29 00:50 01:11

Table with 11 columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows include compounds like IS-BNB, Tetrachloro-m-xylene, Aroclor-1221, Aroclor-1242, Aroclor-1232, Aroclor-1016, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268, Decachlorobiphenyl, IS-HBBP, 2,4-DDE, 2,4-DDD, 2,4-DDT, 4,4-DDE.

Reviewer 1 \_\_\_\_\_ Date: \_\_\_\_\_
Reviewer 2 \_\_\_\_\_ Date: \_\_\_\_\_



ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
 Batch File: \\target\share\chem4\ecd7.i\230505.b  
 Inst ID: ecd7.i

| Compound               | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|------------------------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 47 4,4-DDD             | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.243   | 10.143-10.343 | +++++  | +++++   |
| 48 4,4-DDT             | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.706   | 10.606-10.806 | +++++  | +++++   |
| 49 Hexachlorobutadiene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.842    | 1.742-1.942   | +++++  | +++++   |
| 50 Hexachlorobenzene   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.708    | 6.608-6.808   | +++++  | +++++   |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230505.b\PCB.m\PCB2.m
Batch File: \\target\share\chem4\ecd7.i\230505.b\230505.b
Inst ID: ecd7.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07
FILENAME: 05052320ECD7 05052321ECD7 05052322ECD7 05052323ECD7 05052324ECD7 05052325ECD7 05052326ECD7
INJ. DATE: 05-MAY-2023 05-MAY-2023 05-MAY-2023 06-MAY-2023 06-MAY-2023 06-MAY-2023 06-MAY-2023
INJ. TIME: 23:06 23:26 23:47 00:08 00:29 00:50 01:11

Table with columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows include various chemical compounds like 40 IS-BNB, 2 Tetrachloro-m-xylene, 1 Aroclor-1221, etc.

Reviewer 1 \_\_\_\_\_ Date: \_\_\_\_\_
Reviewer 2 \_\_\_\_\_ Date: \_\_\_\_\_

ARI Labs, Inc.  
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230505.b\PCB.m\PCB2.m  
 Batch File: \\target\share\chem4\ecd7.i\230505.b\230505.b  
 Inst ID: ecd7.i

| Compound               | RT01  | RT02  | RT03  | RT04  | RT05  | RT06  | RT07  | EXPEC RT | RT WINDOW     | AVG RT | STD DEV |
|------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 46 4,4-DDT [2C]        | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.046   | 10.946-11.146 | +++++  | +++++   |
| 48 Hexachlorobutadiene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.703    | 1.603-1.803   | +++++  | +++++   |
| 49 Hexachlorobenzene   | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.178    | 7.078-7.278   | +++++  | +++++   |

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052320ECD7.D  
Data file 2: /230505.b/230505.b/05052320ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: IB  
Client ID:  
Injection Date: 05-MAY-2023 23:06  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.742  | 0.000         | 296285   | 5.629  | 0.001          | 163258   | 35.5       | 37.4        | 5.3 | Tetrachloro-m-xylene |
| 13.841 | 0.001         | 288612   | 14.070 | 0.002          | 318424   | 35.7       | 37.3        | 4.5 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 554412      | -7.8 |
| Hexabromobiphenyl  | 876625         | 809662      | -7.6 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 349289         | 317324      | -9.2 |
| Hexabromobiphenyl  | 652984         | 600612      | -8.0 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                                 |       |        |        |      | ZB35 Col |                            |        |        |      |        |
|---|-------|--------|--------|------|----------|----------------------------|--------|--------|------|--------|
| Aroclor                                 | Peak# | RT     | Shift  | Area | Amount   | Peak#                      | RT     | Shift  | Area | Amount |
| Aroclor-1016                            | 1     | ---    |        |      | 0.0      | 1                          | ---    |        |      | 0.0    |
| Aroclor-1016                            | 2     | ---    |        |      | 0.0      | 2                          | ---    |        |      | 0.0    |
| Aroclor-1016                            | 3     | ---    |        |      | 0.0      | 3                          | ---    |        |      | 0.0    |
| Aroclor-1016                            | 4     | ---    |        |      | 0.0      | 4                          | ---    |        |      | 0.0    |
| CollAve: <3 Quant Peaks                 |       |        |        |      |          | Col2Ave: <3 Quant Peaks    |        |        |      |        |
| Aroclor-1221                            | 1     | ---    |        |      | 0.0      | 1                          | ---    |        |      | 0.0    |
| Aroclor-1221                            | 2     | ---    |        |      | 0.0      | 2                          | 6.272  | 0.027  | 1585 | 32.7   |
| Aroclor-1221                            | 3     | ---    |        |      | 0.0      | 3                          | 6.588  | 0.017  | 408  | 5.3    |
| CollAve: <3 Quant Peaks                 |       |        |        |      |          | Col2Ave: <3 Quant Peaks    |        |        |      |        |
| Aroclor-1232                            | 1     | ---    |        |      | 0.0      | 1                          | ---    |        |      | 0.0    |
| Aroclor-1232                            | 2     | ---    |        |      | 0.0      | 2                          | ---    |        |      | 0.0    |
| Aroclor-1232                            | 3     | ---    |        |      | 0.0      | 3                          | ---    |        |      | 0.0    |
| Aroclor-1232                            | 4     | ---    |        |      | 0.0      | 4                          | ---    |        |      | 0.0    |
| CollAve: <3 Quant Peaks                 |       |        |        |      |          | Col2Ave: <3 Quant Peaks    |        |        |      |        |
| Aroclor-1242                            | 1     | ---    |        |      | 0.0      | 1                          | ---    |        |      | 0.0    |
| Aroclor-1242                            | 2     | ---    |        |      | 0.0      | 2                          | ---    |        |      | 0.0    |
| Aroclor-1242                            | 3     | ---    |        |      | 0.0      | 3                          | ---    |        |      | 0.0    |
| Aroclor-1242                            | 4     | ---    |        |      | 0.0      | 4                          | ---    |        |      | 0.0    |
| CollAve: <3 Quant Peaks                 |       |        |        |      |          | Col2Ave: <3 Quant Peaks    |        |        |      |        |
| Aroclor-1248                            | 1     | ---    |        |      | 0.0      | 1                          | ---    |        |      | 0.0    |
| Aroclor-1248                            | 2     | ---    |        |      | 0.0      | 2                          | ---    |        |      | 0.0    |
| Aroclor-1248                            | 3     | ---    |        |      | 0.0      | 3                          | ---    |        |      | 0.0    |
| Aroclor-1248                            | 4     | ---    |        |      | 0.0      | 4                          | ---    |        |      | 0.0    |
| CollAve: <3 Quant Peaks                 |       |        |        |      |          | Col2Ave: <3 Quant Peaks    |        |        |      |        |
| Aroclor-1254                            | 1     | ---    |        |      | 0.0      | 1                          | ---    |        |      | 0.0    |
| Aroclor-1254                            | 2     | ---    |        |      | 0.0      | 2                          | ---    |        |      | 0.0    |
| Aroclor-1254                            | 3     | ---    |        |      | 0.0      | 3                          | ---    |        |      | 0.0    |
| Aroclor-1254                            | 4     | ---    |        |      | 0.0      | 4                          | ---    |        |      | 0.0    |
| Aroclor-1254                            | 5     | ---    |        |      | 0.0      | 5                          | ---    |        |      | 0.0    |
| CollAve: <3 Quant Peaks                 |       |        |        |      |          | Col2Ave: <3 Quant Peaks    |        |        |      |        |
| Aroclor-1260                            | 1     | 10.995 | 0.002  | 1624 | 3.8      | 1                          | ---    |        |      | 0.0    |
| Aroclor-1260                            | 2     | 11.305 | -0.005 | 1450 | 3.4      | 2                          | ---    |        |      | 0.0    |
| Aroclor-1260                            | 3     | 11.770 | 0.084  | 3781 | 3.6      | 3                          | ---    |        |      | 0.0    |
| Aroclor-1260                            | 4     | 12.138 | 0.048  | 1272 | 2.5      | 4                          | ---    |        |      | 0.0    |
| Aroclor-1260                            | 5     | 12.271 | 0.078  | 413  | 1.8      | NS                         | ---    |        |      | ----   |
| Total CollAve (5 peaks):                |       |        |        |      | 3.0      | Col2Ave: <3 Quant Peaks    |        |        |      |        |
| Aroclor-1262                            | 1     | 10.800 | 0.021  | 2445 | 6.7      | 1                          | ---    |        |      | 0.0    |
| Aroclor-1262                            | 2     | 12.271 | 0.077  | 413  | 0.8      | 2                          | ---    |        |      | 0.0    |
| Aroclor-1262                            | 3     | ---    |        |      | 0.0      | 3                          | ---    |        |      | 0.0    |
| Aroclor-1262                            | 4     | 12.989 | 0.050  | 944  | 2.1      | 4                          | ---    |        |      | 0.0    |
| Total CollAve (3 peaks):                |       |        |        |      | 3.2      | Col2Ave: <3 Quant Peaks    |        |        |      |        |
| Aroclor-1268                            | 1     | 12.271 | 0.076  | 413  | 0.3      | 1                          | ---    |        |      | 0.0    |
| Aroclor-1268                            | 2     | ---    |        |      | 0.0      | 2                          | ---    |        |      | 0.0    |
| Aroclor-1268                            | 3     | 12.649 | 0.001  | 2092 | 2.0      | 3                          | 12.847 | 0.004  | 632  | 0.6    |
| Aroclor-1268                            | 4     | 13.443 | 0.006  | 5651 | 1.9      | 4                          | 13.663 | -0.001 | 2018 | 0.6    |
| Total CollAve (3 peaks):                |       |        |        |      | 1.4      | Col2Ave: <3 Quant Peaks    |        |        |      |        |
| Total PCB Area Coll1 (5.842 - 13.740) = |       |        |        |      | 65805    | Coll1 Total PCB = 0.0 ppm* |        |        |      |        |

Total PCB Area Col2 (5.728 - 13.968) = 16664 Col2 Total PCB = 0.0 ppm\*

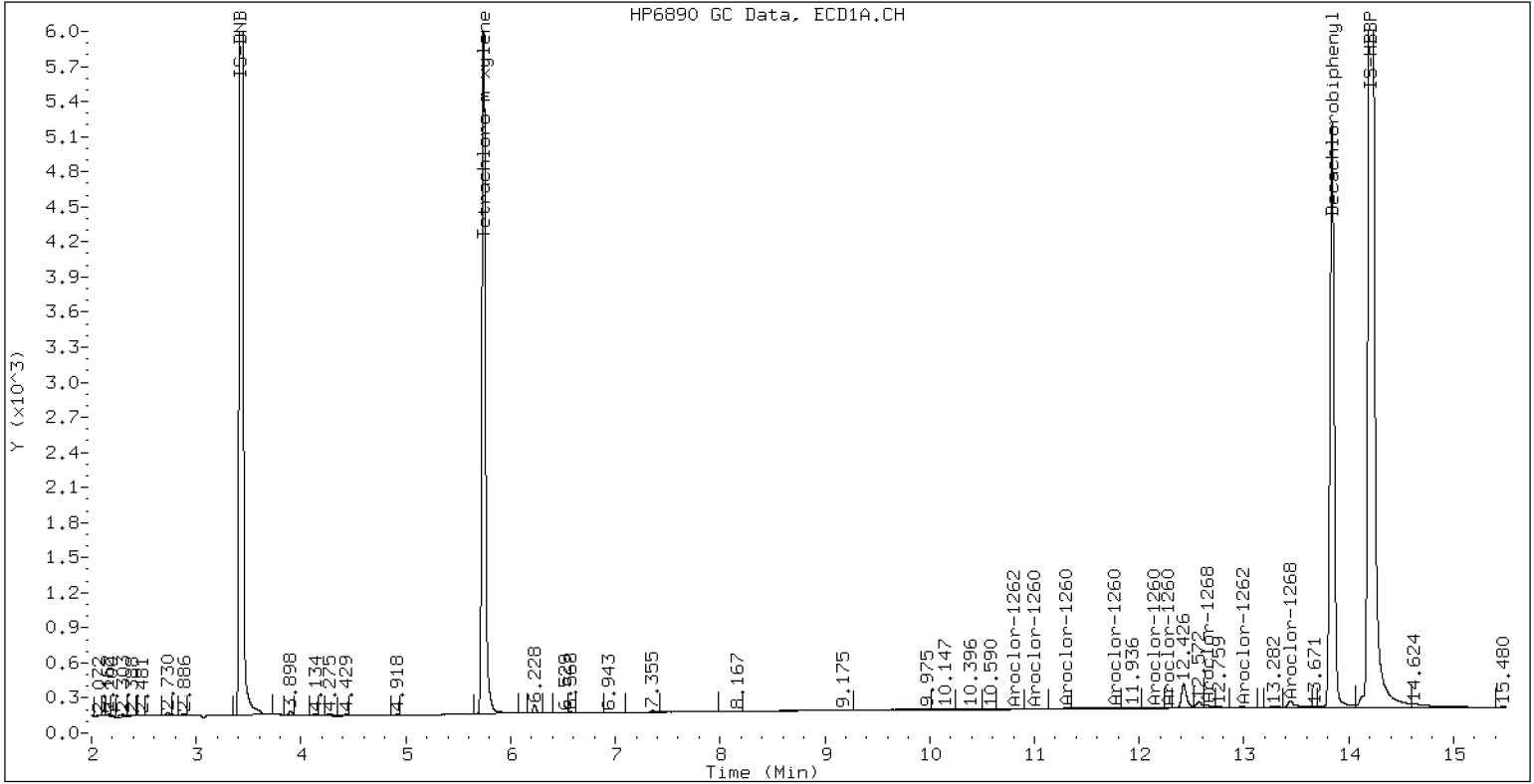
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 IB

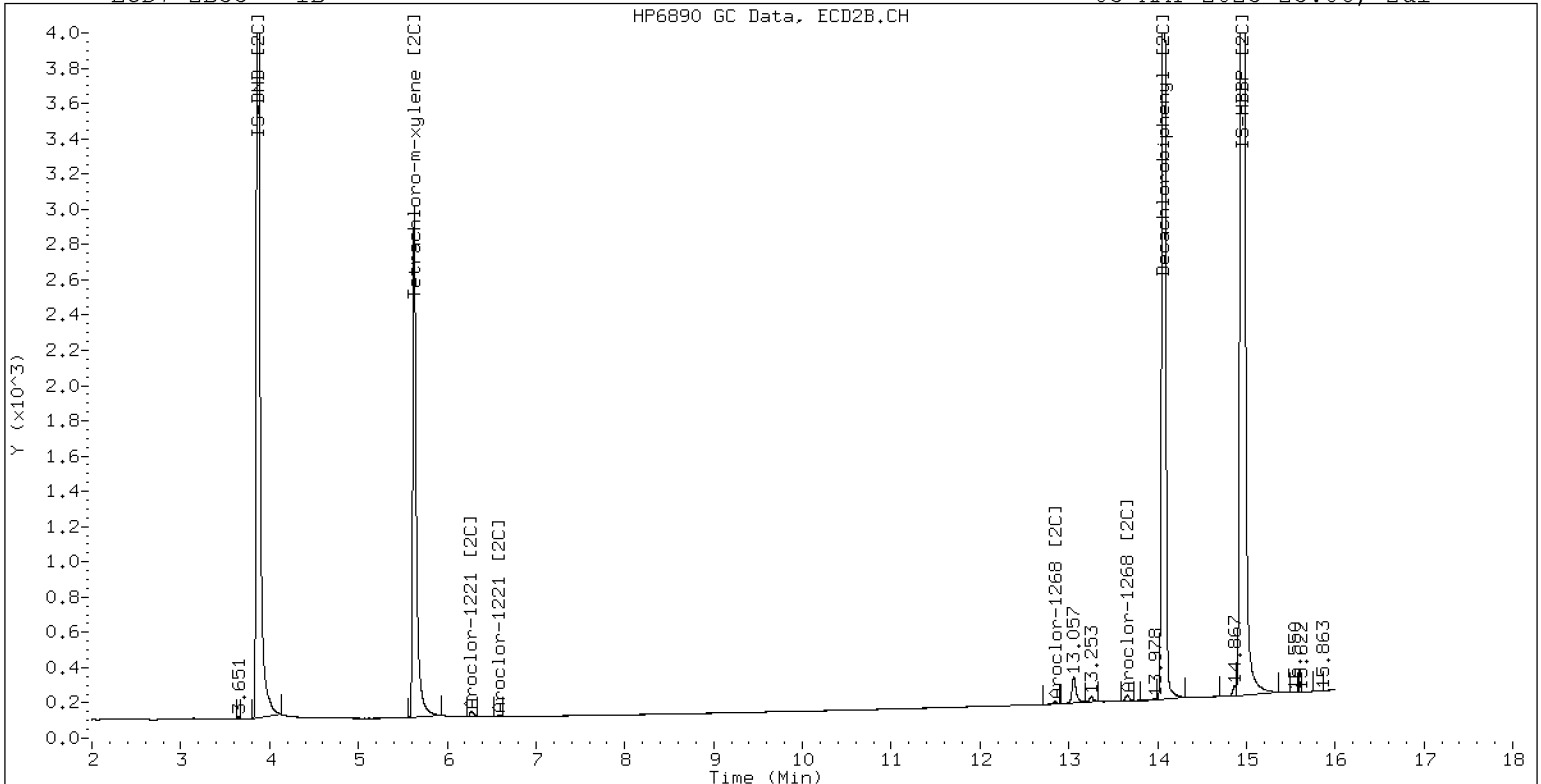
05-MAY-2023 23:06, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 IB

05-MAY-2023 23:06, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052321ECD7.D  
Data file 2: /230505.b/230505.b/05052321ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.25PPMAR1660  
Client ID:  
Injection Date: 05-MAY-2023 23:26  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.743  | 0.001         | 368910   | 5.629  | 0.000          | 197442   | 40.7       | 41.1        | 0.9 | Tetrachloro-m-xylene |
| 13.841 | 0.001         | 341641   | 14.070 | 0.002          | 386381   | 39.0       | 41.7        | 6.6 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 601474      | 0.0 |
| Hexabromobiphenyl  | 876625         | 876625      | 0.0 |
| Column 2           |                |             |     |
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 349289      | 0.0 |
| Hexabromobiphenyl  | 652984         | 652984      | 0.0 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                  |       |       |       |        | ZB35 Col |                          |       |        |        |        |         |
|--------------------------|-------|-------|-------|--------|----------|--------------------------|-------|--------|--------|--------|---------|
| Aroclor                  | Peak# | RT    | Shift | Area   | Amount   | Peak#                    | RT    | Shift  | Area   | Amount |         |
| Aroclor-1016             | 1     | 7.213 | 0.001 | 58979  | 253.2    | 1                        | 7.204 | -0.000 | 48493  | 245.3  |         |
| Aroclor-1016             | 2     | 7.595 | 0.001 | 191892 | 263.5    | 2                        | 7.811 | 0.003  | 106372 | 252.4  |         |
| Aroclor-1016             | 3     | 7.735 | 0.002 | 84934  | 252.3    | 3                        | 8.010 | 0.004  | 46169  | 248.4  |         |
| Aroclor-1016             | 4     | 8.399 | 0.001 | 35727  | 257.2    | 4                        | 8.260 | 0.001  | 36109  | 244.6  |         |
| Total CollAve (4 peaks): |       |       |       | 256.6  |          | Total Col2Ave (4 peaks): |       |        |        | 247.7  | RPD = 4 |
| Corrected Ave (3 peaks): |       |       |       | 254.2  |          | Corrected Ave (3 peaks): |       |        |        | 246.1  | RPD = 3 |

CalAmt %D: 2.6

CalAmt %D: -0.9

|                          |   |        |       |        |       |                          |        |        |        |       |         |
|--------------------------|---|--------|-------|--------|-------|--------------------------|--------|--------|--------|-------|---------|
| Aroclor-1260             | 1 | 10.995 | 0.002 | 115872 | 250.0 | 1                        | 11.605 | -0.000 | 87314  | 251.8 |         |
| Aroclor-1260             | 2 | 11.312 | 0.002 | 114768 | 250.9 | 2                        | 11.872 | -0.000 | 232184 | 256.0 |         |
| Aroclor-1260             | 3 | 11.687 | 0.001 | 287920 | 251.3 | 3                        | 12.389 | 0.001  | 56725  | 252.4 |         |
| Aroclor-1260             | 4 | 12.091 | 0.002 | 141607 | 252.3 | 4                        | 12.456 | 0.000  | 154797 | 255.5 |         |
| Aroclor-1260             | 5 | 12.195 | 0.002 | 60315  | 246.5 | NS                       | ---    |        |        | ----  |         |
| Total CollAve (5 peaks): |   |        |       | 250.2  |       | Total Col2Ave (4 peaks): |        |        |        | 253.9 | RPD = 1 |
| Corrected Ave (4 peaks): |   |        |       | 249.7  |       | Corrected Ave (3 peaks): |        |        |        | 253.2 | RPD = 1 |

CalAmt %D: 0.1

CalAmt %D: 1.6

Total PCB Area Coll (5.842 - 13.740) = 3355836 Coll Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 2087295 Col2 Total PCB = 0.5 ppm\*

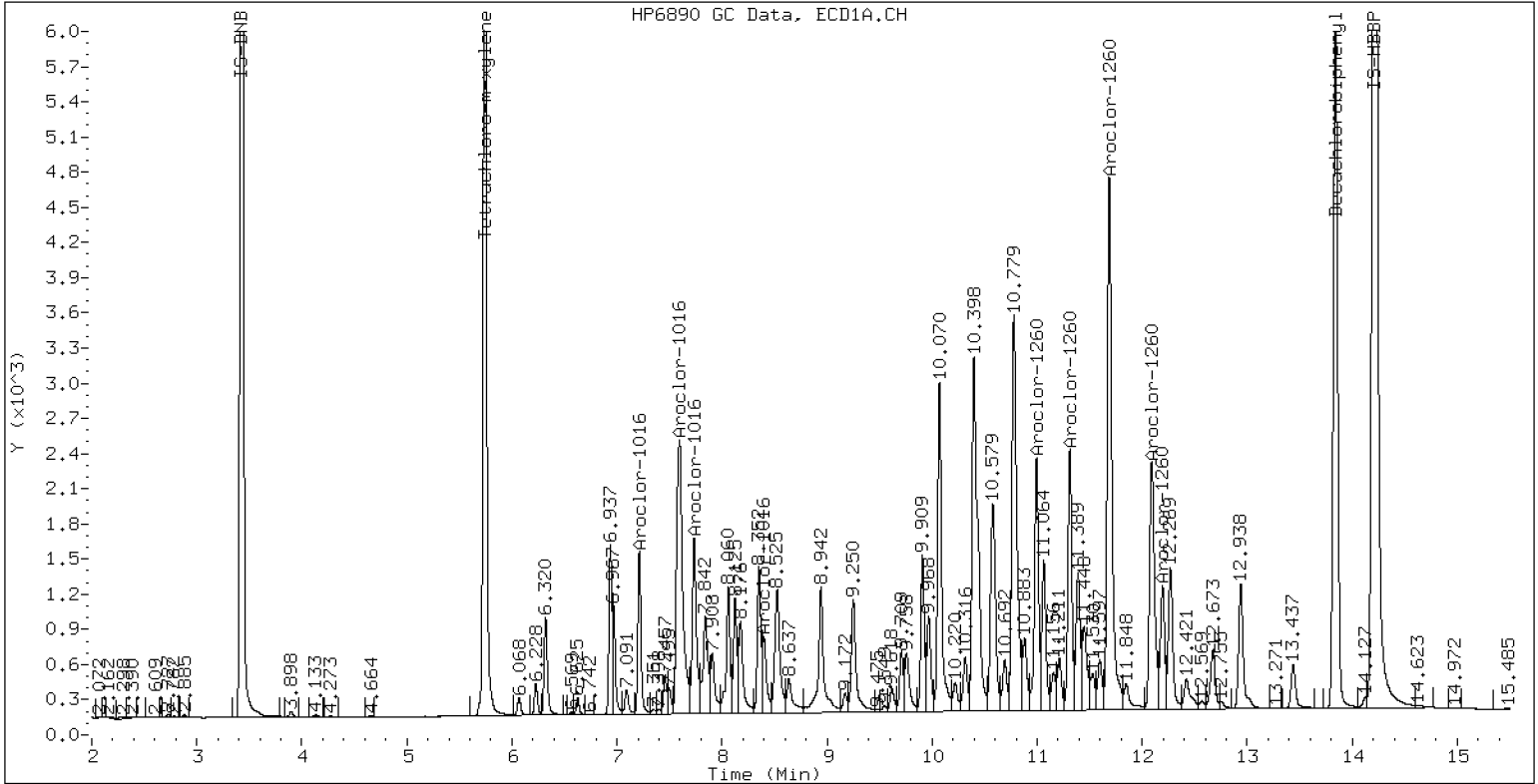
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1660

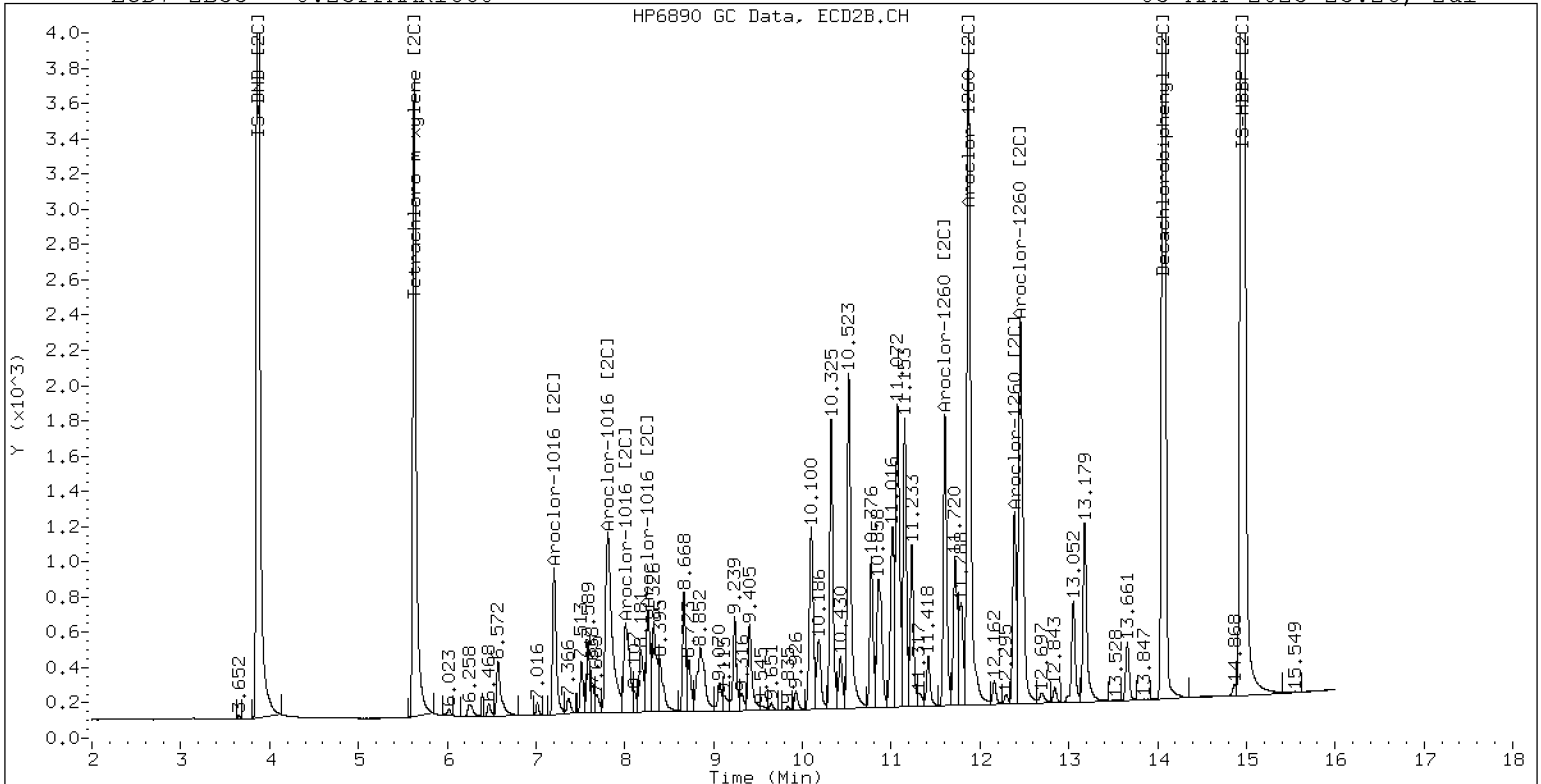
05-MAY-2023 23:26, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1660

05-MAY-2023 23:26, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052322ECD7.D  
Data file 2: /230505.b/230505.b/05052322ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.02PPMAR1660  
Client ID:  
Injection Date: 05-MAY-2023 23:47  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD  | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|------|----------------------|
| 5.742  | -0.000        | 28836    | 5.630  | 0.002          | 14779    | 3.2        | 3.2         | 1.4  | Tetrachloro-m-xylene |
| 13.843 | 0.002         | 31610    | 14.071 | 0.002          | 27131    | 3.6        | 2.9         | 20.0 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 595544      | -1.0 |
| Hexabromobiphenyl  | 876625         | 880480      | 0.4  |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 349289         | 338730      | -3.0 |
| Hexabromobiphenyl  | 652984         | 649475      | -0.5 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |       |       |        | ZB35 Col                 |        |       |       |               |
|--------------------------|-------|--------|-------|-------|--------|--------------------------|--------|-------|-------|---------------|
| Aroclor                  | Peak# | RT     | Shift | Area  | Amount | Peak#                    | RT     | Shift | Area  | Amount        |
| Aroclor-1016             | 1     | 7.213  | 0.001 | 4852  | 21.0   | 1                        | 7.206  | 0.002 | 4368  | 22.8          |
| Aroclor-1016             | 2     | 7.595  | 0.001 | 13075 | 18.1   | 2                        | 7.819  | 0.012 | 8341  | 20.4          |
| Aroclor-1016             | 3     | 7.737  | 0.004 | 6514  | 19.5   | 3                        | 8.043  | 0.038 | 3708  | 20.6          |
| Aroclor-1016             | 4     | 8.400  | 0.002 | 2555  | 18.6   | 4                        | 8.261  | 0.002 | 3078  | 21.5          |
| Total CollAve (4 peaks): |       |        |       | 19.3  |        | Total Col2Ave (4 peaks): |        |       |       | 21.3 RPD = 10 |
| Corrected Ave (3 peaks): |       |        |       | 18.8  |        | Corrected Ave (3 peaks): |        |       |       | 20.8 RPD = 10 |
| CalAmt %D:               |       |        |       | -3.4  |        | CalAmt %D:               |        |       |       | 6.6           |
| Aroclor-1260             | 1     | 10.998 | 0.005 | 10082 | 21.7   | 1                        | 11.610 | 0.004 | 7378  | 21.4          |
| Aroclor-1260             | 2     | 11.316 | 0.006 | 9760  | 21.2   | 2                        | 11.878 | 0.006 | 18318 | 20.3          |
| Aroclor-1260             | 3     | 11.694 | 0.008 | 24587 | 21.4   | 3                        | 12.392 | 0.004 | 4519  | 20.2          |
| Aroclor-1260             | 4     | 12.098 | 0.008 | 12018 | 21.3   | 4                        | 12.461 | 0.006 | 12454 | 20.7          |
| Aroclor-1260             | 5     | 12.198 | 0.005 | 5499  | 22.4   | NS                       | ---    |       |       | ----          |
| Total CollAve (5 peaks): |       |        |       | 21.6  |        | Total Col2Ave (4 peaks): |        |       |       | 20.6 RPD = 4  |
| Corrected Ave (4 peaks): |       |        |       | 21.4  |        | Corrected Ave (3 peaks): |        |       |       | 20.4 RPD = 5  |
| CalAmt %D:               |       |        |       | 8.0   |        | CalAmt %D:               |        |       |       | 3.2           |

Total PCB Area Coll (5.842 - 13.740) = 294199 Coll Total PCB = 0.0 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 173796 Col2 Total PCB = 0.0 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

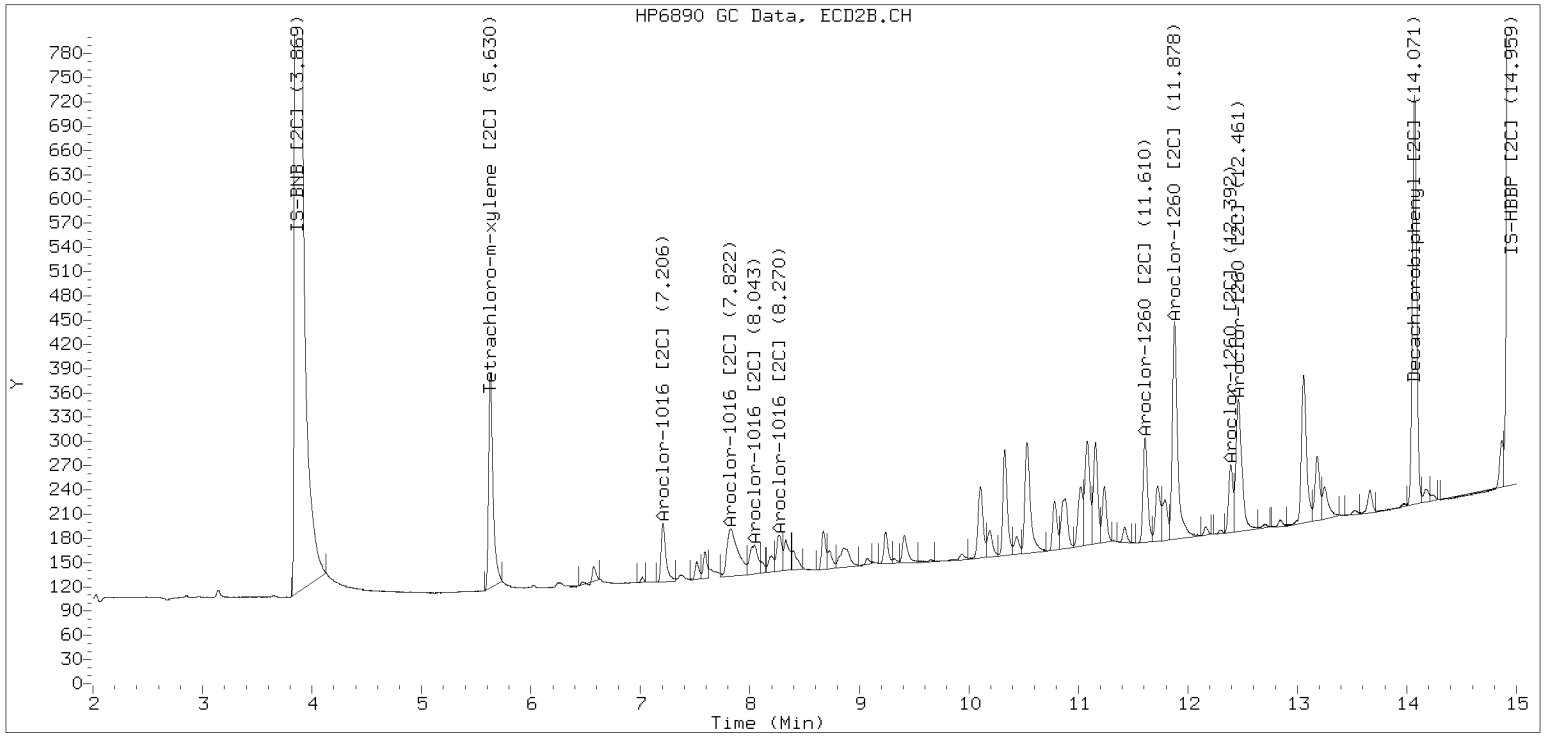
PCB-Form 10 Mod.



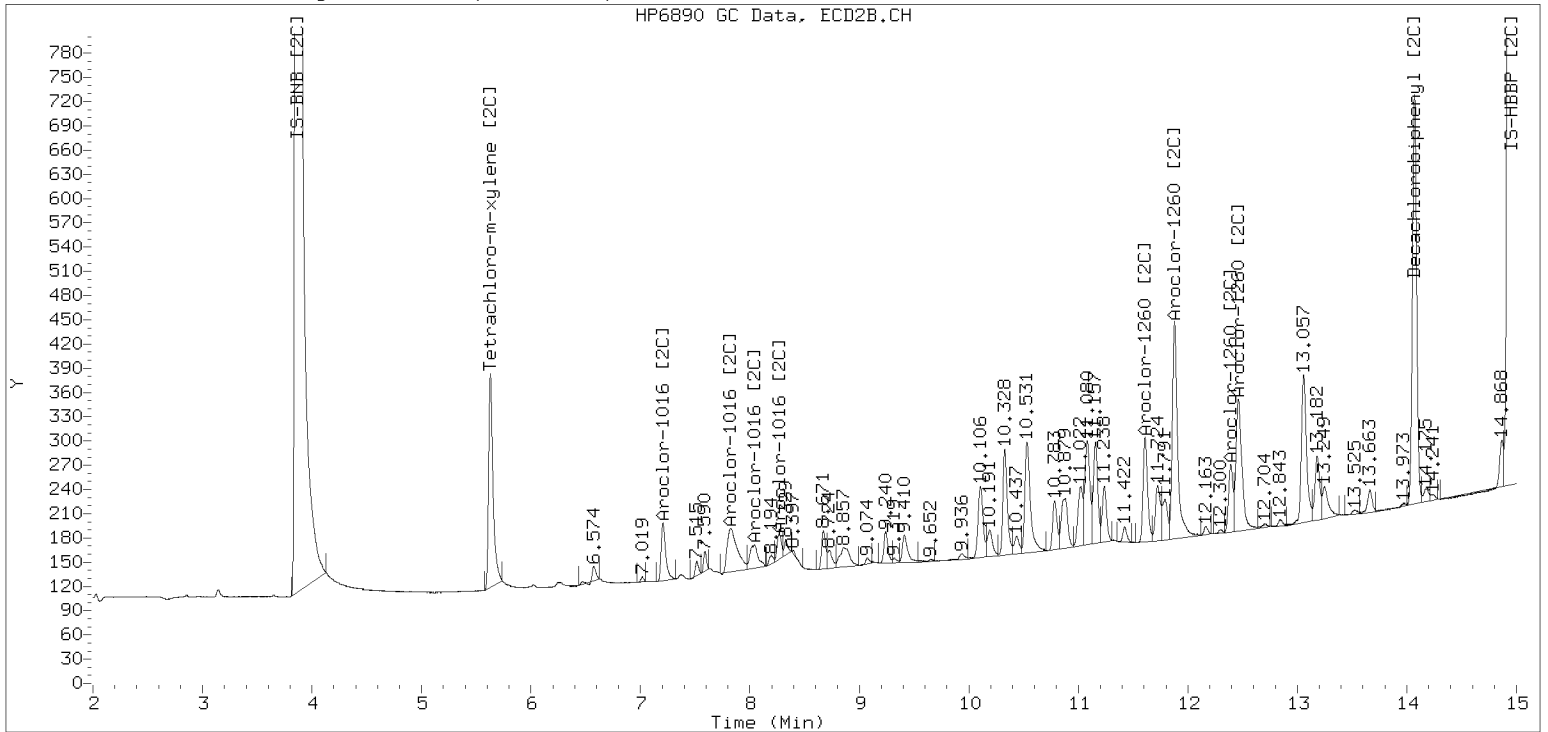
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230505.b/230505.b/05052322ECD7.D Injection Date: 05-MAY-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052323ECD7.D  
 Data file 2: /230505.b/230505.b/05052323ECD7.D  
 Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
 Compound Sublist: AR1660.sub  
 Instrument, Inj. Vol.: ecd7.i, 2ul  
 Quant Method: Internal Std

ARI ID: 0.05PPMAR1660  
 Client ID:  
 Injection Date: 06-MAY-2023 00:08  
 Report Date: 05/06/2023 11:30  
 Matrix: NONE  
 Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD  | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|------|----------------------|
| 5.741  | -0.001        | 72149    | 5.630  | 0.001          | 37778    | 7.9        | 7.8         | 0.3  | Tetrachloro-m-xylene |
| 13.843 | 0.002         | 75564    | 14.070 | 0.002          | 71601    | 8.4        | 7.6         | 10.2 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 610127      | 1.4 |
| Hexabromobiphenyl  | 876625         | 902634      | 3.0 |

| Column 2           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 350964      | 0.5 |
| Hexabromobiphenyl  | 652984         | 666660      | 2.1 |

\* Standard Areas taken from Initial Cal Level 3  
 Initial Calibration Date: 05-MAY-2023  
 <- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |       |       |                          | ZB35 Col |        |       |       |         |  |
|--------------------------|-------|--------|-------|-------|--------------------------|----------|--------|-------|-------|---------|--|
| Aroclor                  | Peak# | RT     | Shift | Area  | Amount                   | Peak#    | RT     | Shift | Area  | Amount  |  |
| Aroclor-1016             | 1     | 7.214  | 0.001 | 12303 | 52.1                     | 1        | 7.205  | 0.001 | 10404 | 52.4    |  |
| Aroclor-1016             | 2     | 7.595  | 0.000 | 35912 | 48.6                     | 2        | 7.821  | 0.013 | 20971 | 49.5    |  |
| Aroclor-1016             | 3     | 7.736  | 0.003 | 18491 | 54.1                     | 3        | 8.016  | 0.010 | 9788  | 52.4    |  |
| Aroclor-1016             | 4     | 8.400  | 0.002 | 7326  | 52.0                     | 4        | 8.264  | 0.005 | 8176  | 55.1    |  |
| Total CollAve (4 peaks): |       |        |       | 51.7  | Total Col2Ave (4 peaks): |          |        |       | 52.4  | RPD = 1 |  |
| Corrected Ave (3 peaks): |       |        |       | 50.9  | Corrected Ave (3 peaks): |          |        |       | 51.4  | RPD = 1 |  |
| CalAmt %D:               |       |        |       | 3.4   | CalAmt %D:               |          |        |       | 4.7   |         |  |
| Aroclor-1260             | 1     | 10.998 | 0.005 | 23619 | 49.5                     | 1        | 11.609 | 0.003 | 17805 | 50.3    |  |
| Aroclor-1260             | 2     | 11.316 | 0.006 | 23213 | 49.3                     | 2        | 11.876 | 0.004 | 46188 | 49.9    |  |
| Aroclor-1260             | 3     | 11.693 | 0.007 | 58862 | 49.9                     | 3        | 12.391 | 0.003 | 11048 | 48.1    |  |
| Aroclor-1260             | 4     | 12.096 | 0.006 | 28206 | 48.8                     | 4        | 12.460 | 0.004 | 30586 | 49.4    |  |
| Aroclor-1260             | 5     | 12.197 | 0.004 | 12672 | 50.3                     | NS       | ---    |       |       | ----    |  |
| Total CollAve (5 peaks): |       |        |       | 49.6  | Total Col2Ave (4 peaks): |          |        |       | 49.4  | RPD = 0 |  |
| Corrected Ave (4 peaks): |       |        |       | 49.4  | Corrected Ave (3 peaks): |          |        |       | 49.2  | RPD = 0 |  |
| CalAmt %D:               |       |        |       | -0.9  | CalAmt %D:               |          |        |       | -1.1  |         |  |

Total PCB Area Coll (5.842 - 13.740) = 697433 Coll Total PCB = 0.1 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 429325 Col2 Total PCB = 0.1 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

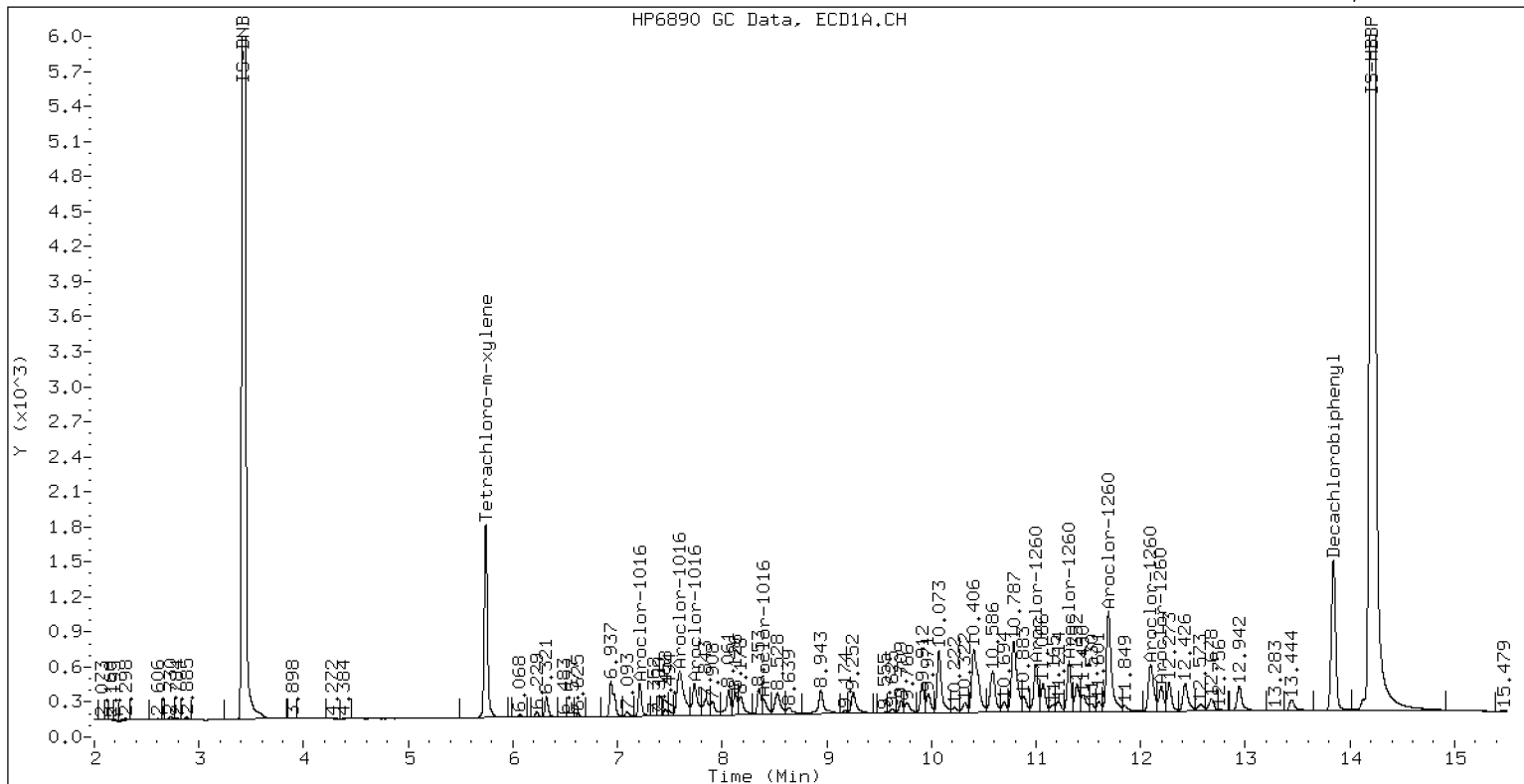
PCB-Form 10 Mod.



# PCB Dual Column Chromatograms

ECD7-ZB5 0.05PPMAR1660

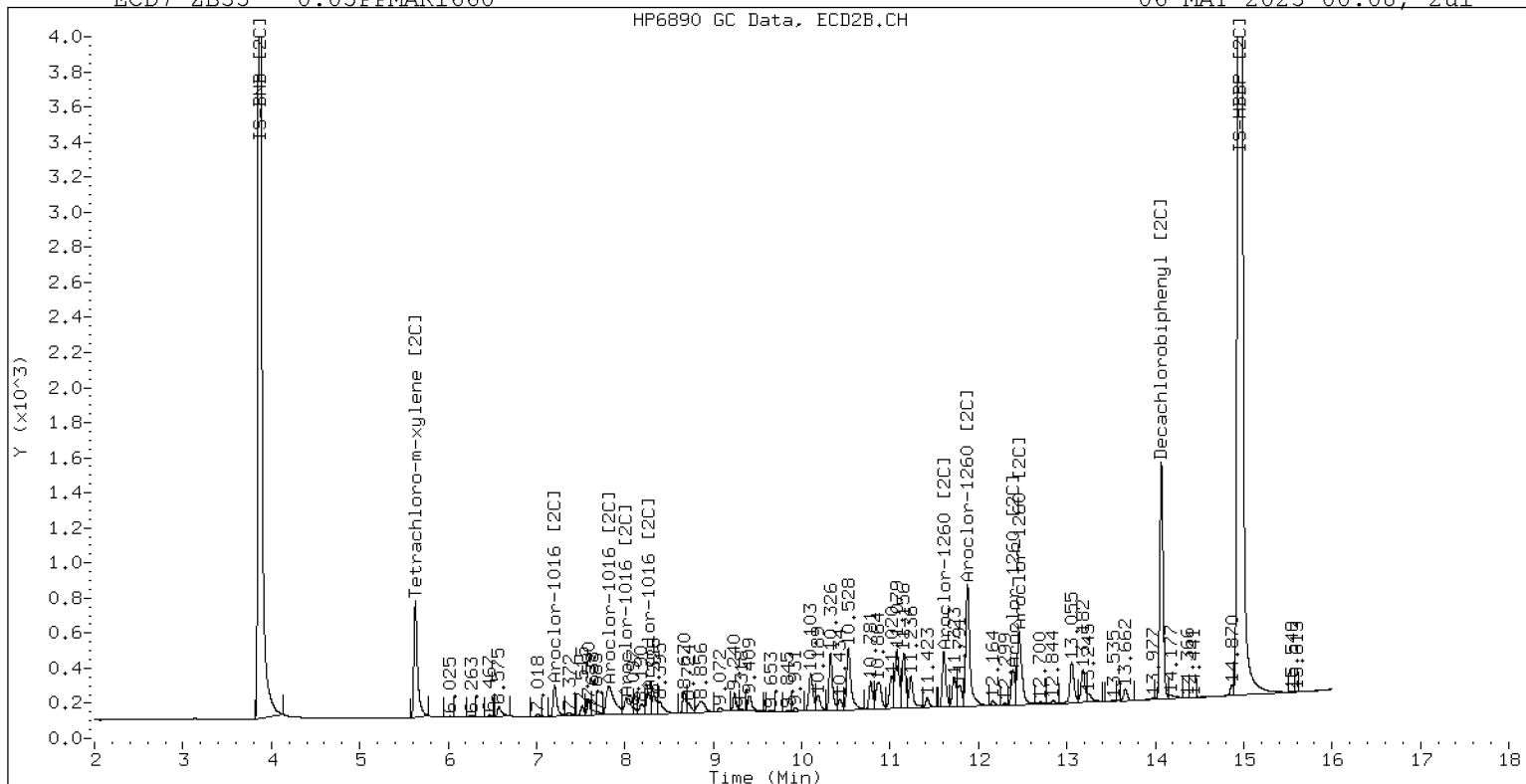
06-MAY-2023 00:08, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.05PPMAR1660

06-MAY-2023 00:08, 2ul

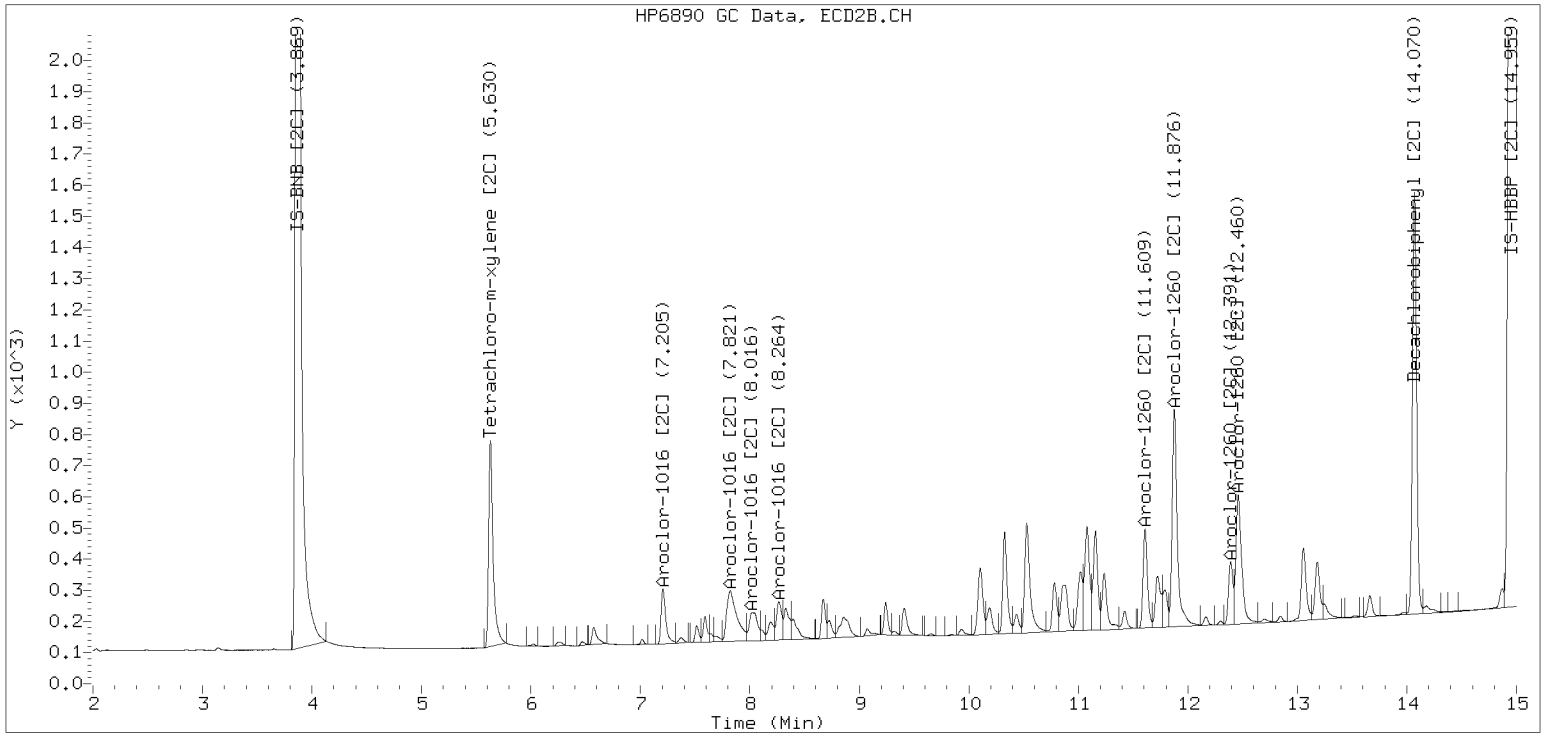


ZB-35 Manual Integration: YES

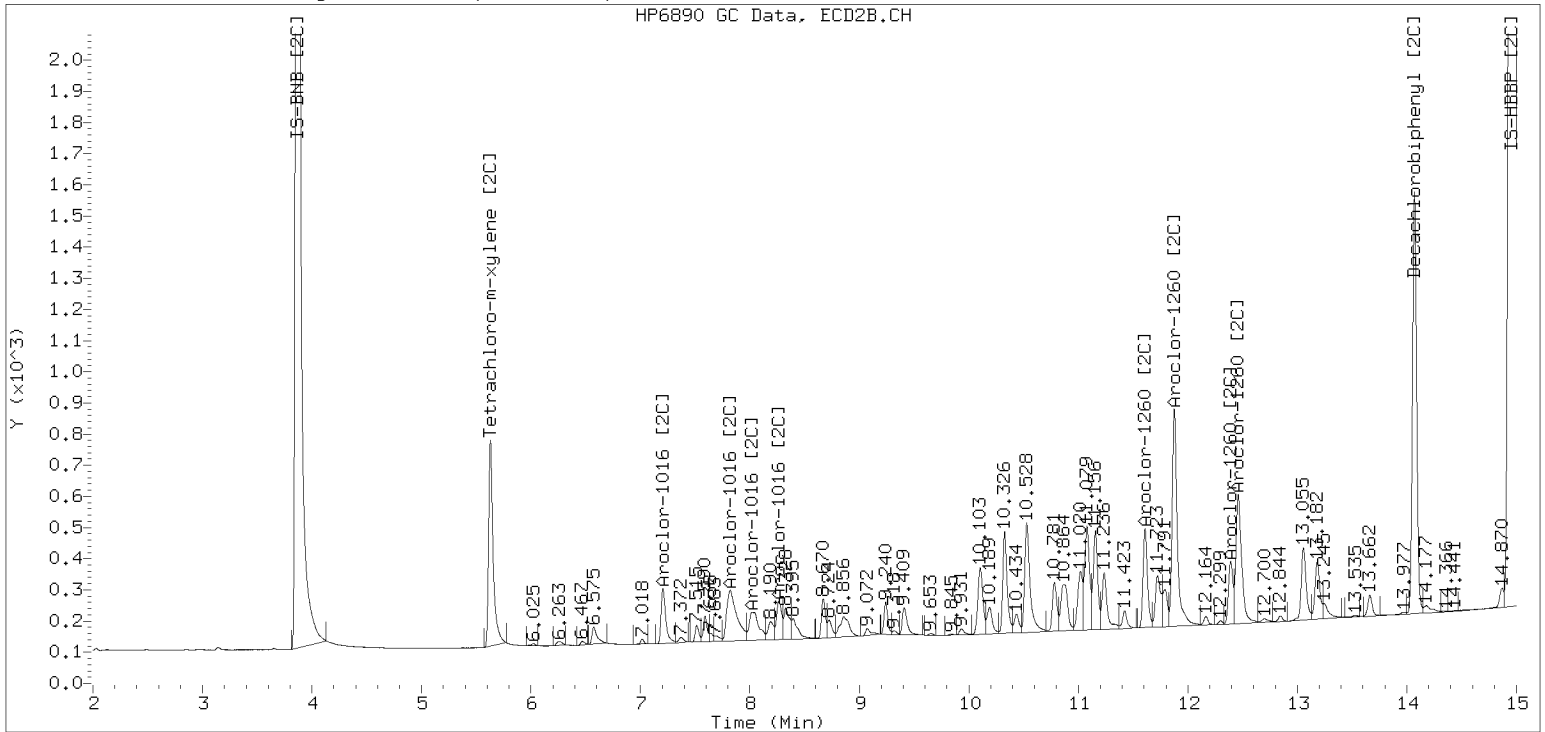
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230505.b/230505.b/05052323ECD7.D Injection Date: 06-MAY-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052324ECD7.D  
Data file 2: /230505.b/230505.b/05052324ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 1.0PPMAR1660  
Client ID:  
Injection Date: 06-MAY-2023 00:29  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col<br>Shift | Response | RT     | ZB35 Col<br>Shift | Response | ZB5<br>on col | ZB35<br>on col | RPD  | Compound/Flag        |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|------|----------------------|
| 5.746  | 0.004            | 1354956  | 5.627  | -0.001            | 709704   | 151.5         | 152.0          | 0.4  | Tetrachloro-m-xylene |
| 13.842 | 0.002            | 1208957  | 14.071 | 0.002             | 1442827  | 141.2         | 159.2          | 12.0 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 594005      | -1.2 |
| Hexabromobiphenyl  | 876625         | 857318      | -2.2 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 349289         | 339380      | -2.8 |
| Hexabromobiphenyl  | 652984         | 638394      | -2.2 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |         | ZB35 Col |                          |        |        |        |               |
|--------------------------|-------|--------|--------|---------|----------|--------------------------|--------|--------|--------|---------------|
| Aroclor                  | Peak# | RT     | Shift  | Area    | Amount   | Peak#                    | RT     | Shift  | Area   | Amount        |
| Aroclor-1016             | 1     | 7.213  | 0.000  | 192466  | 836.8    | 1                        | 7.203  | -0.001 | 161296 | 839.6         |
| Aroclor-1016             | 2     | 7.595  | 0.000  | 687116  | 955.4    | 2                        | 7.804  | -0.003 | 383432 | 936.5         |
| Aroclor-1016             | 3     | 7.732  | -0.000 | 284089  | 854.4    | 3                        | 8.002  | -0.003 | 161269 | 893.1         |
| Aroclor-1016             | 4     | 8.397  | -0.001 | 121539  | 886.0    | 4                        | 8.257  | -0.002 | 118708 | 827.5         |
| Total CollAve (4 peaks): |       |        |        | 883.2   |          | Total Col2Ave (4 peaks): |        |        |        | 874.2 RPD = 1 |
| Corrected Ave (3 peaks): |       |        |        | 859.1   |          | Corrected Ave (3 peaks): |        |        |        | 853.4 RPD = 1 |
| CalAmt %D:               |       |        |        | -11.7   |          | CalAmt %D:               |        |        |        | -12.6         |
| Aroclor-1260             | 1     | 10.992 | -0.001 | 410905  | 906.4    | 1                        | 11.604 | -0.002 | 304531 | 898.2         |
| Aroclor-1260             | 2     | 11.309 | -0.001 | 410553  | 917.6    | 2                        | 11.869 | -0.003 | 813835 | 917.7         |
| Aroclor-1260             | 3     | 11.683 | -0.003 | 1014157 | 905.1    | 3                        | 12.387 | -0.001 | 218887 | 996.0         |
| Aroclor-1260             | 4     | 12.087 | -0.003 | 505824  | 921.7    | 4                        | 12.453 | -0.003 | 543988 | 918.3         |
| Aroclor-1260             | 5     | 12.193 | -0.001 | 212396  | 887.6    | NS                       | ---    |        |        | ----          |
| Total CollAve (5 peaks): |       |        |        | 907.7   |          | Total Col2Ave (4 peaks): |        |        |        | 932.6 RPD = 3 |
| Corrected Ave (4 peaks): |       |        |        | 904.2   |          | Corrected Ave (3 peaks): |        |        |        | 911.4 RPD = 1 |
| CalAmt %D:               |       |        |        | -9.2    |          | CalAmt %D:               |        |        |        | -6.7          |

Total PCB Area Col1 (5.842 - 13.740) = 11665793      Col1 Total PCB = 1.8 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 7382788      Col2 Total PCB = 1.8 ppm\*

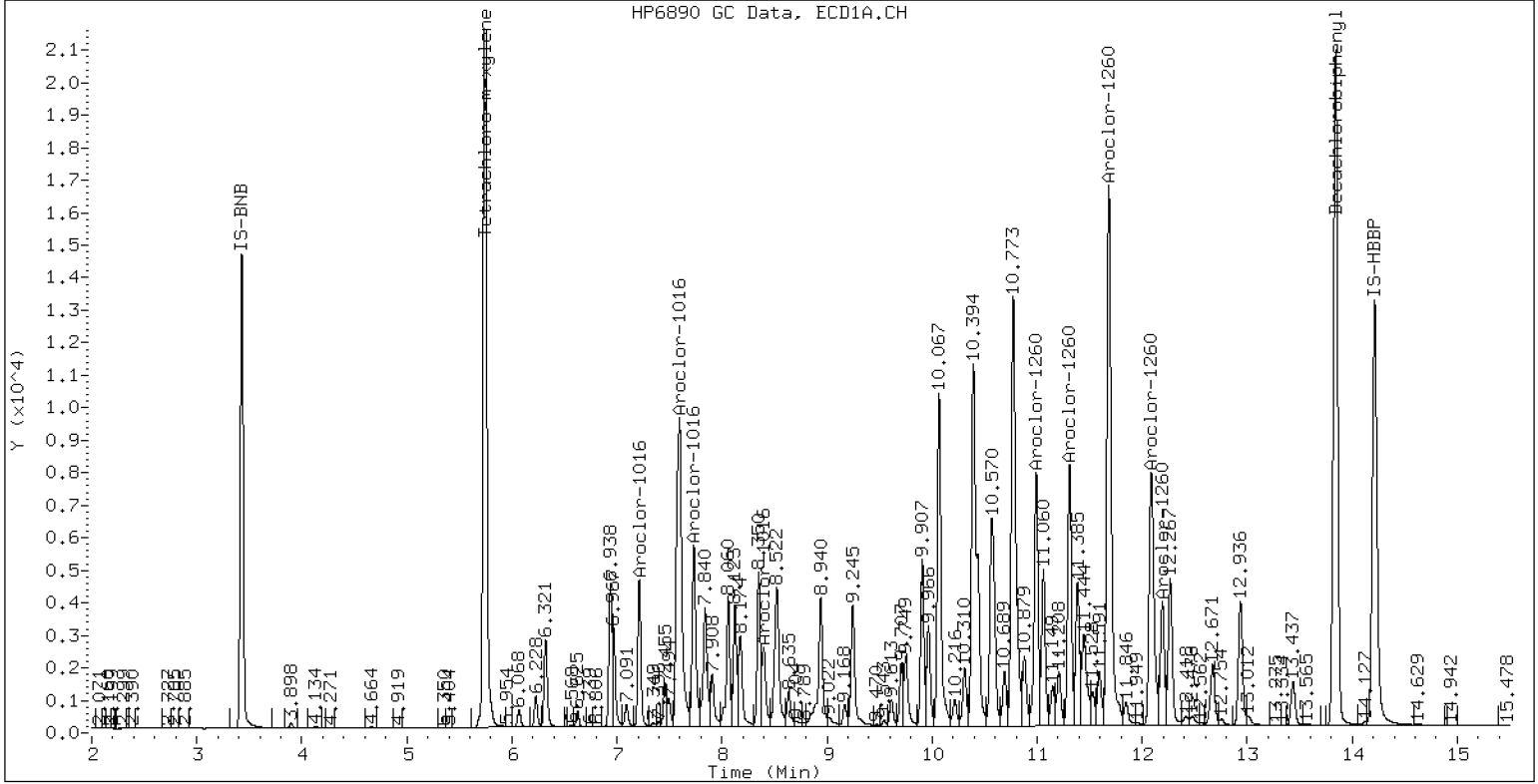
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 1.0PPMAR1660

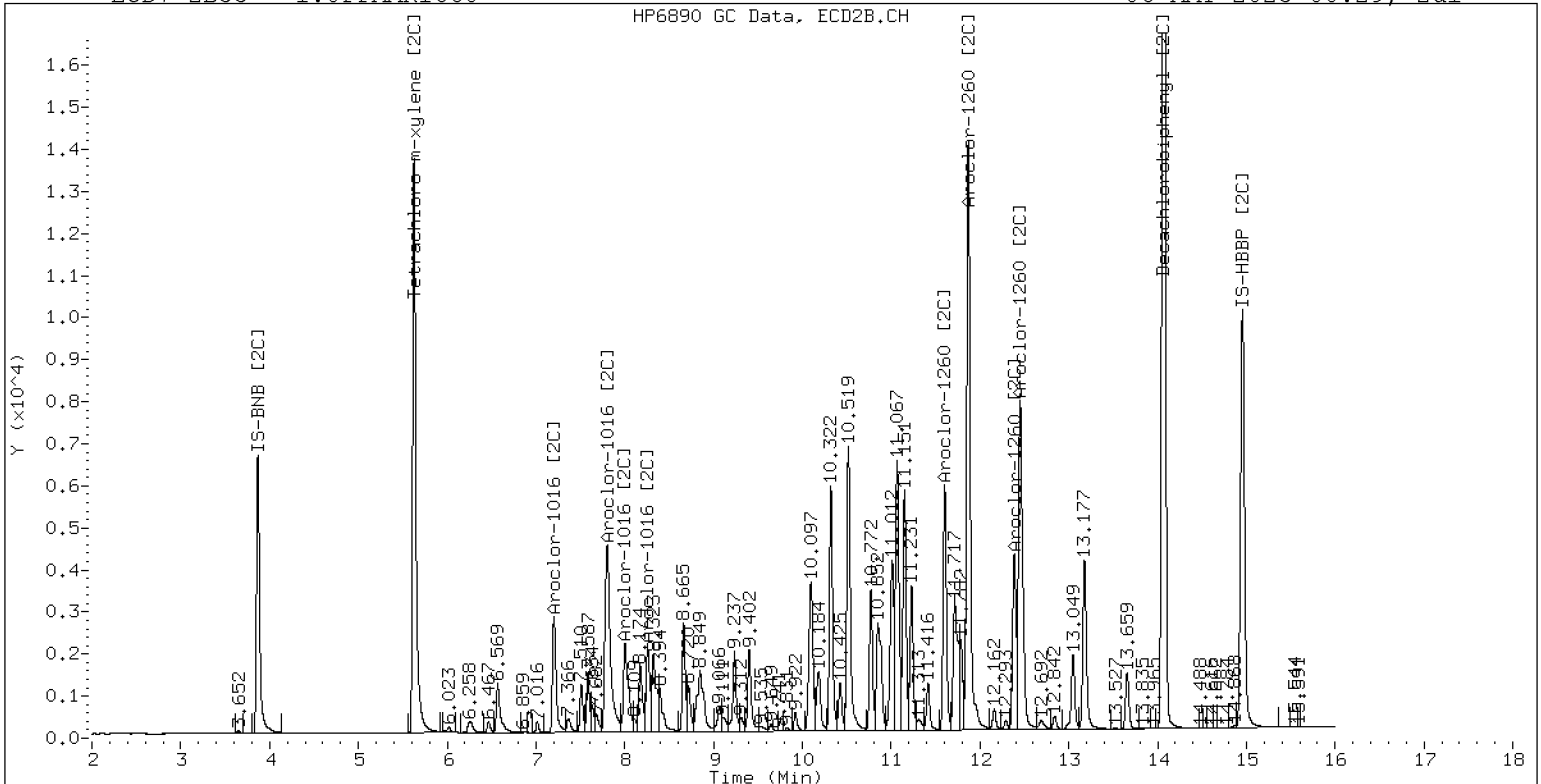
06-MAY-2023 00:29, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 1.0PPMAR1660

06-MAY-2023 00:29, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052325ECD7.D  
Data file 2: /230505.b/230505.b/05052325ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.1PPMAR1660  
Client ID:  
Injection Date: 06-MAY-2023 00:50  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col<br>Shift | Response | RT     | ZB35 Col<br>Shift | Response | ZB5<br>on col | ZB35<br>on col | RPD | Compound/Flag        |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.741  | -0.001           | 166260   | 5.629  | 0.000             | 87721    | 17.3          | 17.2           | 0.5 | Tetrachloro-m-xylene |
| 13.841 | 0.000            | 162151   | 14.069 | 0.001             | 170994   | 17.0          | 17.2           | 1.1 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 639496      | 6.3 |
| Hexabromobiphenyl  | 876625         | 955499      | 9.0 |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 371294      | 6.3 |
| Hexabromobiphenyl  | 652984         | 700767      | 7.3 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        |        | ZB35 Col                 |        |       |        |               |
|--------------------------|-------|--------|--------|--------|--------|--------------------------|--------|-------|--------|---------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount | Peak#                    | RT     | Shift | Area   | Amount        |
| Aroclor-1016             | 1     | 7.212  | -0.000 | 27672  | 111.8  | 1                        | 7.204  | 0.000 | 22585  | 107.5         |
| Aroclor-1016             | 2     | 7.595  | 0.000  | 84096  | 108.6  | 2                        | 7.815  | 0.008 | 47261  | 105.5         |
| Aroclor-1016             | 3     | 7.735  | 0.002  | 40718  | 113.8  | 3                        | 8.012  | 0.007 | 21450  | 108.6         |
| Aroclor-1016             | 4     | 8.399  | 0.001  | 17000  | 115.1  | 4                        | 8.262  | 0.003 | 17337  | 110.5         |
| Total CollAve (4 peaks): |       |        |        | 112.3  |        | Total Col2Ave (4 peaks): |        |       |        | 108.0 RPD = 4 |
| Corrected Ave (3 peaks): |       |        |        | 111.4  |        | Corrected Ave (3 peaks): |        |       |        | 107.2 RPD = 4 |
| CalAmt %D:               |       |        |        | 12.3   |        | CalAmt %D:               |        |       |        | 8.0           |
| Aroclor-1260             | 1     | 10.995 | 0.002  | 53621  | 106.1  | 1                        | 11.608 | 0.002 | 39451  | 106.0         |
| Aroclor-1260             | 2     | 11.313 | 0.003  | 53001  | 106.3  | 2                        | 11.874 | 0.002 | 104406 | 107.3         |
| Aroclor-1260             | 3     | 11.690 | 0.004  | 132765 | 106.3  | 3                        | 12.391 | 0.003 | 24449  | 101.4         |
| Aroclor-1260             | 4     | 12.093 | 0.003  | 64276  | 105.1  | 4                        | 12.457 | 0.002 | 68859  | 105.9         |
| Aroclor-1260             | 5     | 12.196 | 0.003  | 28307  | 106.1  | NS                       | ---    |       |        | ----          |
| Total CollAve (5 peaks): |       |        |        | 106.0  |        | Total Col2Ave (4 peaks): |        |       |        | 105.1 RPD = 1 |
| Corrected Ave (4 peaks): |       |        |        | 105.9  |        | Corrected Ave (3 peaks): |        |       |        | 104.4 RPD = 1 |
| CalAmt %D:               |       |        |        | 6.0    |        | CalAmt %D:               |        |       |        | 5.1           |

Total PCB Area Coll (5.842 - 13.740) = 1580756 Coll Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 950746 Col2 Total PCB = 0.2 ppm\*

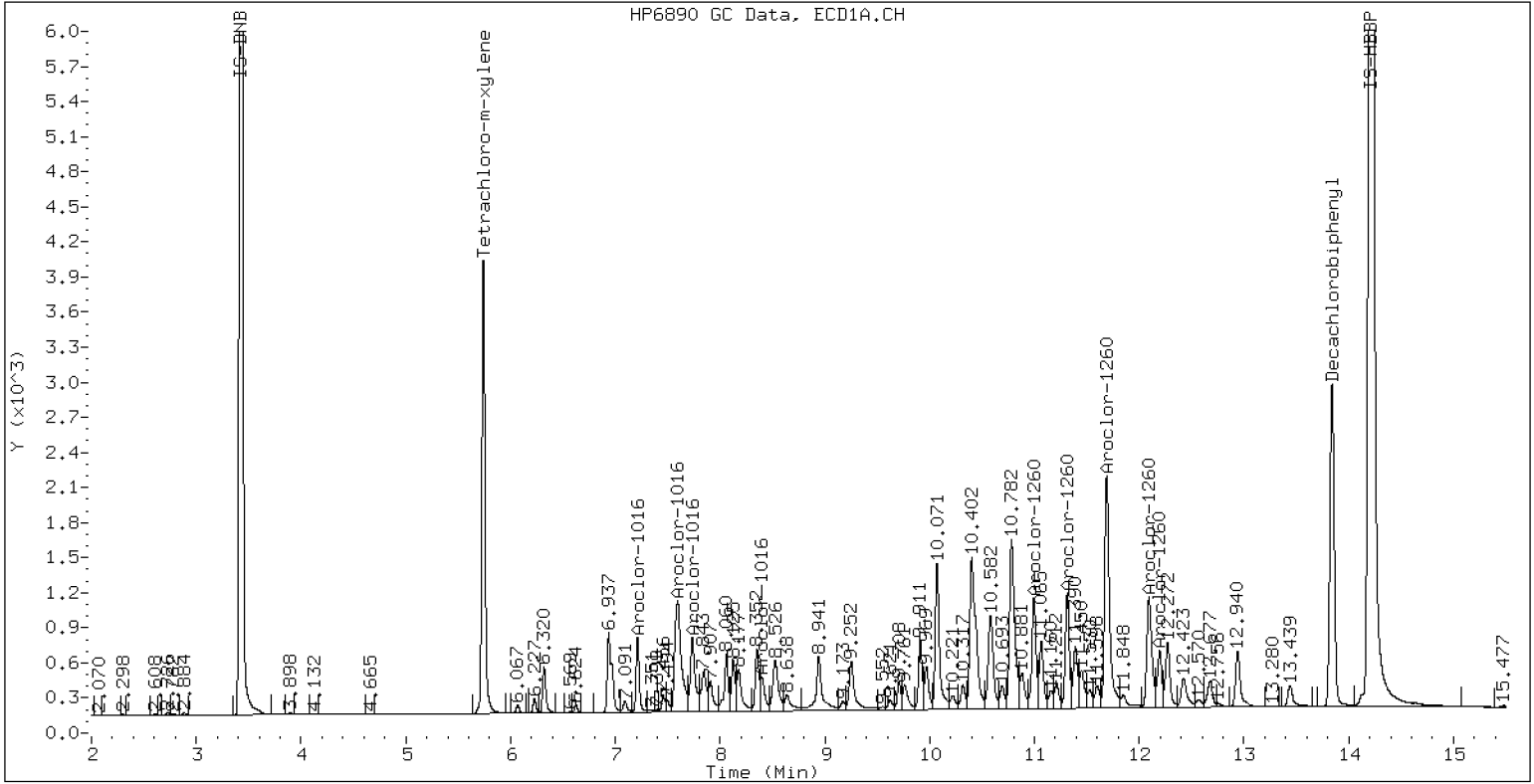
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.1PPMAR1660

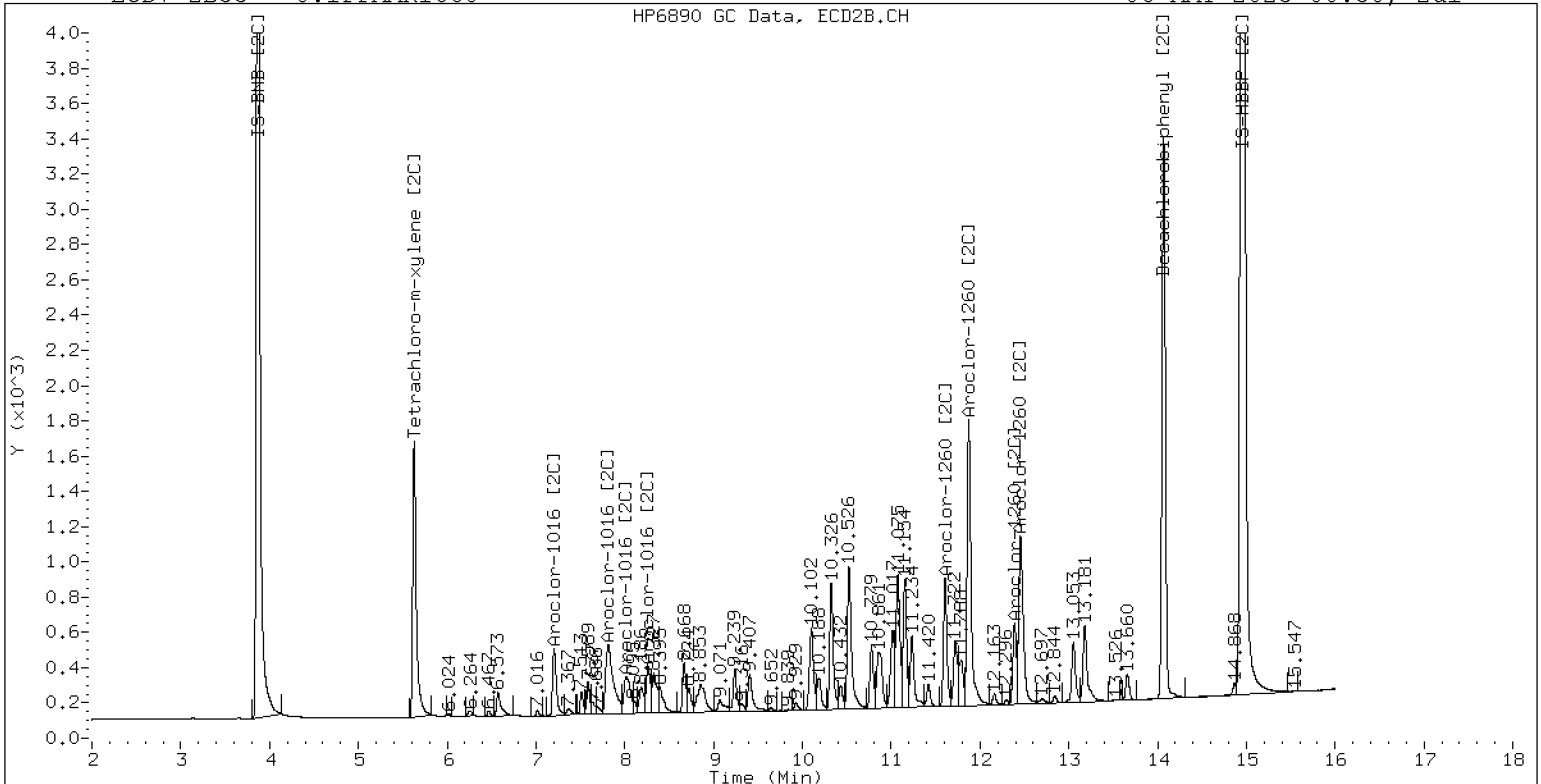
06-MAY-2023 00:50, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.1PPMAR1660

06-MAY-2023 00:50, 2ul



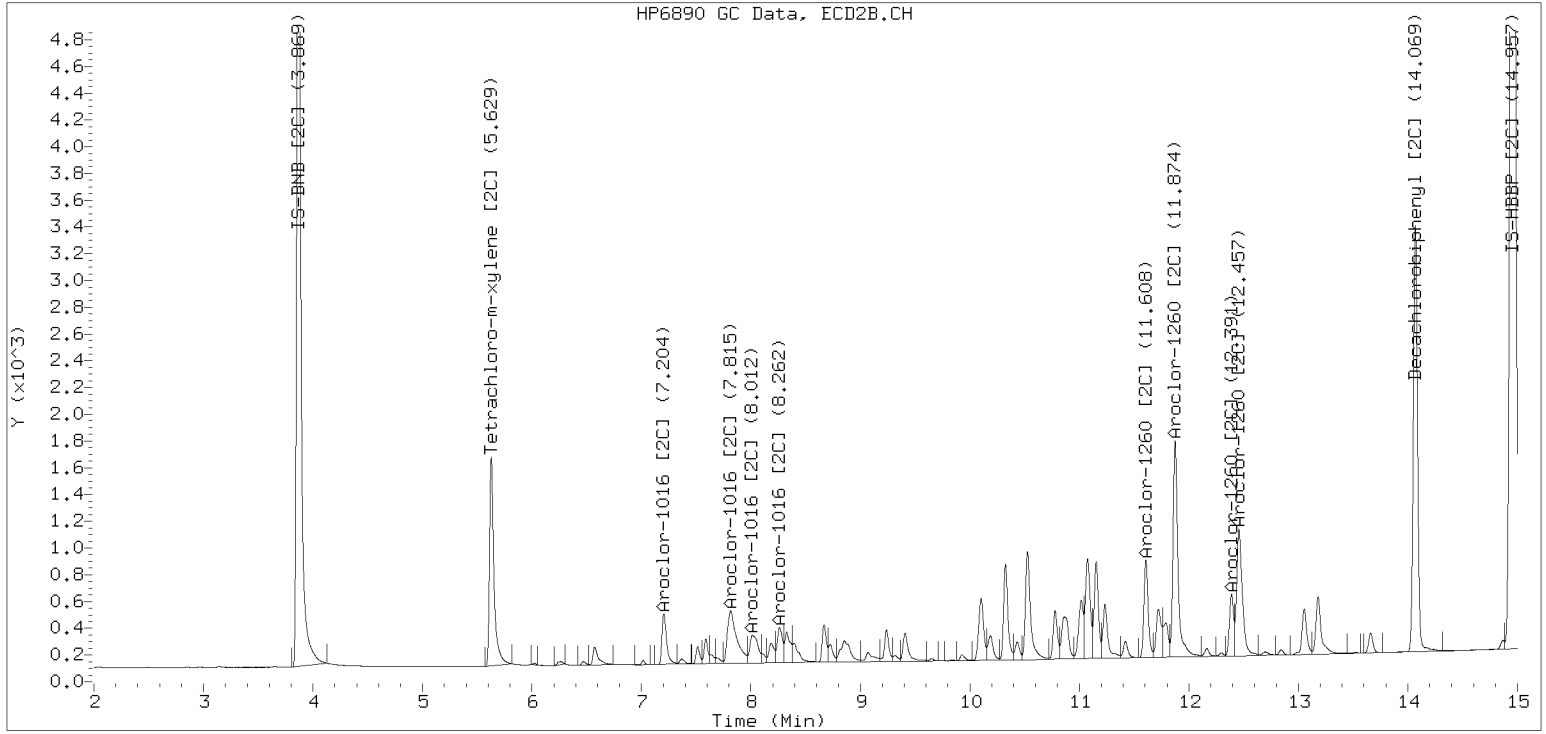
ZB-35 Manual Integration: YES



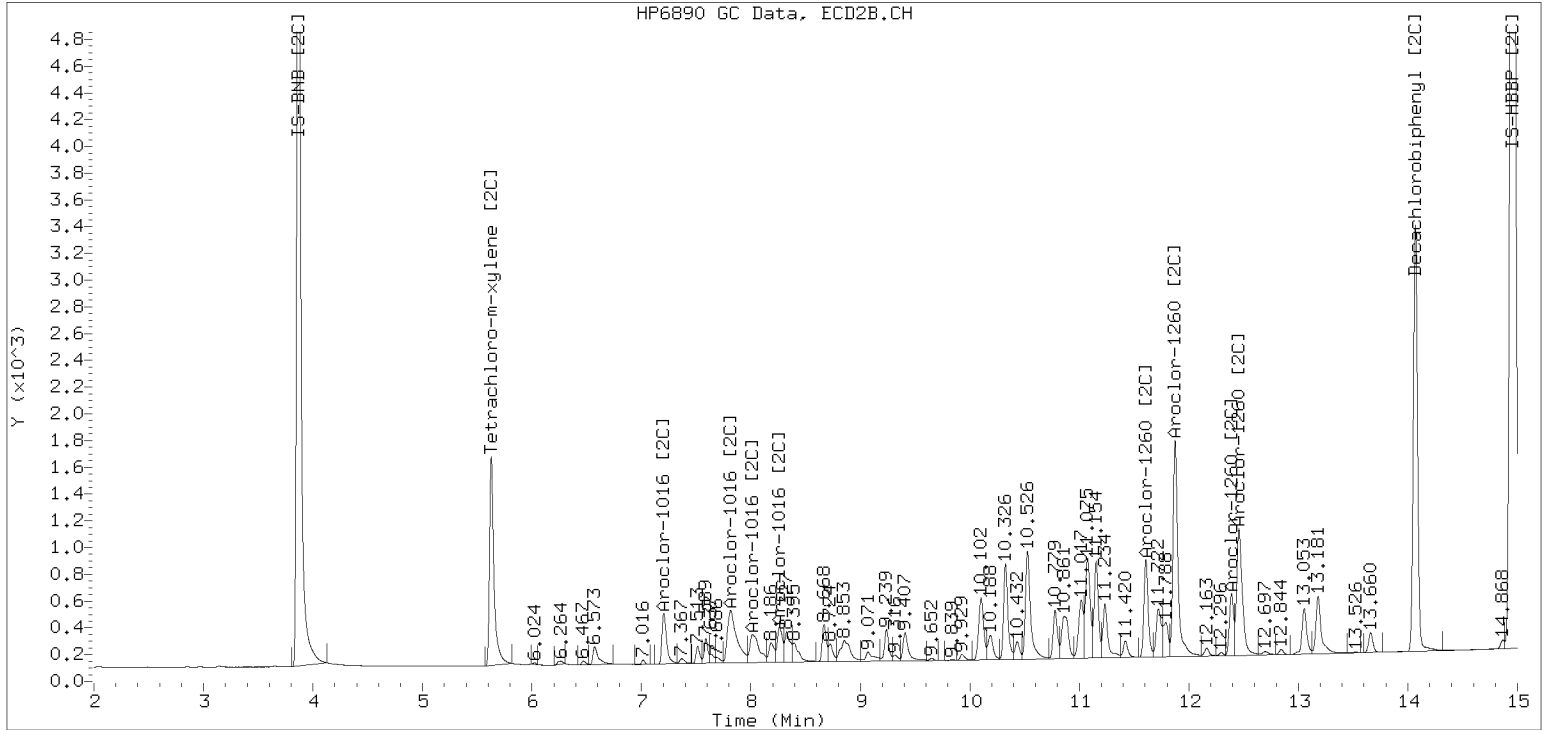
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230505.b/230505.b/05052325ECD7.D Injection Date: 06-MAY-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052326ECD7.D                   ARI ID: 0.5PPMAR1660  
Data file 2: /230505.b/230505.b/05052326ECD7.D        Client ID:  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m     Injection Date: 06-MAY-2023 01:11  
Compound Sublist: AR1660.sub                            Report Date: 05/06/2023 11:30  
Instrument, Inj. Vol.: ecd7.i, 2ul                     Matrix: NONE  
Quant Method: Internal Std                             Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col<br>Shift | Response | RT     | ZB35 Col<br>Shift | Response | ZB5<br>on col | ZB35<br>on col | RPD  | Compound/Flag        |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|------|----------------------|
| 5.743  | 0.001            | 726106   | 5.629  | 0.000             | 386361   | 77.6          | 78.4           | 1.0  | Tetrachloro-m-xylene |
| 13.842 | 0.002            | 662159   | 14.070 | 0.002             | 782852   | 72.8          | 82.0           | 11.9 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 621250      | 3.3 |
| Hexabromobiphenyl  | 876625         | 910647      | 3.9 |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 358174      | 2.5 |
| Hexabromobiphenyl  | 652984         | 672444      | 3.0 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |       |        | ZB35 Col |                          |       |       |        |        |         |
|--------------------------|-------|-------|-------|--------|----------|--------------------------|-------|-------|--------|--------|---------|
| Aroclor                  | Peak# | RT    | Shift | Area   | Amount   | Peak#                    | RT    | Shift | Area   | Amount |         |
| Aroclor-1016             | 1     | 7.212 | 0.000 | 112948 | 469.5    | 1                        | 7.204 | 0.000 | 93114  | 459.2  |         |
| Aroclor-1016             | 2     | 7.594 | 0.000 | 385708 | 512.8    | 2                        | 7.808 | 0.000 | 213293 | 493.6  |         |
| Aroclor-1016             | 3     | 7.733 | 0.000 | 163263 | 469.5    | 3                        | 8.006 | 0.000 | 90569  | 475.2  |         |
| Aroclor-1016             | 4     | 8.398 | 0.000 | 69235  | 482.6    | 4                        | 8.259 | 0.000 | 69045  | 456.1  |         |
| Total CollAve (4 peaks): |       |       |       | 483.6  |          | Total Col2Ave (4 peaks): |       |       |        | 471.0  | RPD = 3 |
| Corrected Ave (3 peaks): |       |       |       | 473.9  |          | Corrected Ave (3 peaks): |       |       |        | 463.5  | RPD = 2 |

CalAmt %D: -3.3

CalAmt %D: -5.8

|                          |   |        |       |        |       |                          |        |       |        |       |         |
|--------------------------|---|--------|-------|--------|-------|--------------------------|--------|-------|--------|-------|---------|
| Aroclor-1260             | 1 | 10.993 | 0.000 | 231157 | 480.0 | 1                        | 11.606 | 0.000 | 171304 | 479.7 |         |
| Aroclor-1260             | 2 | 11.310 | 0.000 | 230103 | 484.2 | 2                        | 11.872 | 0.000 | 454515 | 486.6 |         |
| Aroclor-1260             | 3 | 11.686 | 0.000 | 571583 | 480.2 | 3                        | 12.388 | 0.000 | 116621 | 503.8 |         |
| Aroclor-1260             | 4 | 12.090 | 0.000 | 284345 | 487.8 | 4                        | 12.455 | 0.000 | 305334 | 489.3 |         |
| Aroclor-1260             | 5 | 12.193 | 0.000 | 119534 | 470.3 | NS                       | ---    |       |        | ----  |         |
| Total CollAve (5 peaks): |   |        |       | 480.5  |       | Total Col2Ave (4 peaks): |        |       |        | 489.8 | RPD = 2 |
| Corrected Ave (4 peaks): |   |        |       | 478.7  |       | Corrected Ave (3 peaks): |        |       |        | 485.2 | RPD = 1 |

CalAmt %D: -3.9

CalAmt %D: -2.0

Total PCB Area Coll (5.842 - 13.740) = 6615607 Coll Total PCB = 1.0 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 4121423 Col2 Total PCB = 1.0 ppm\*

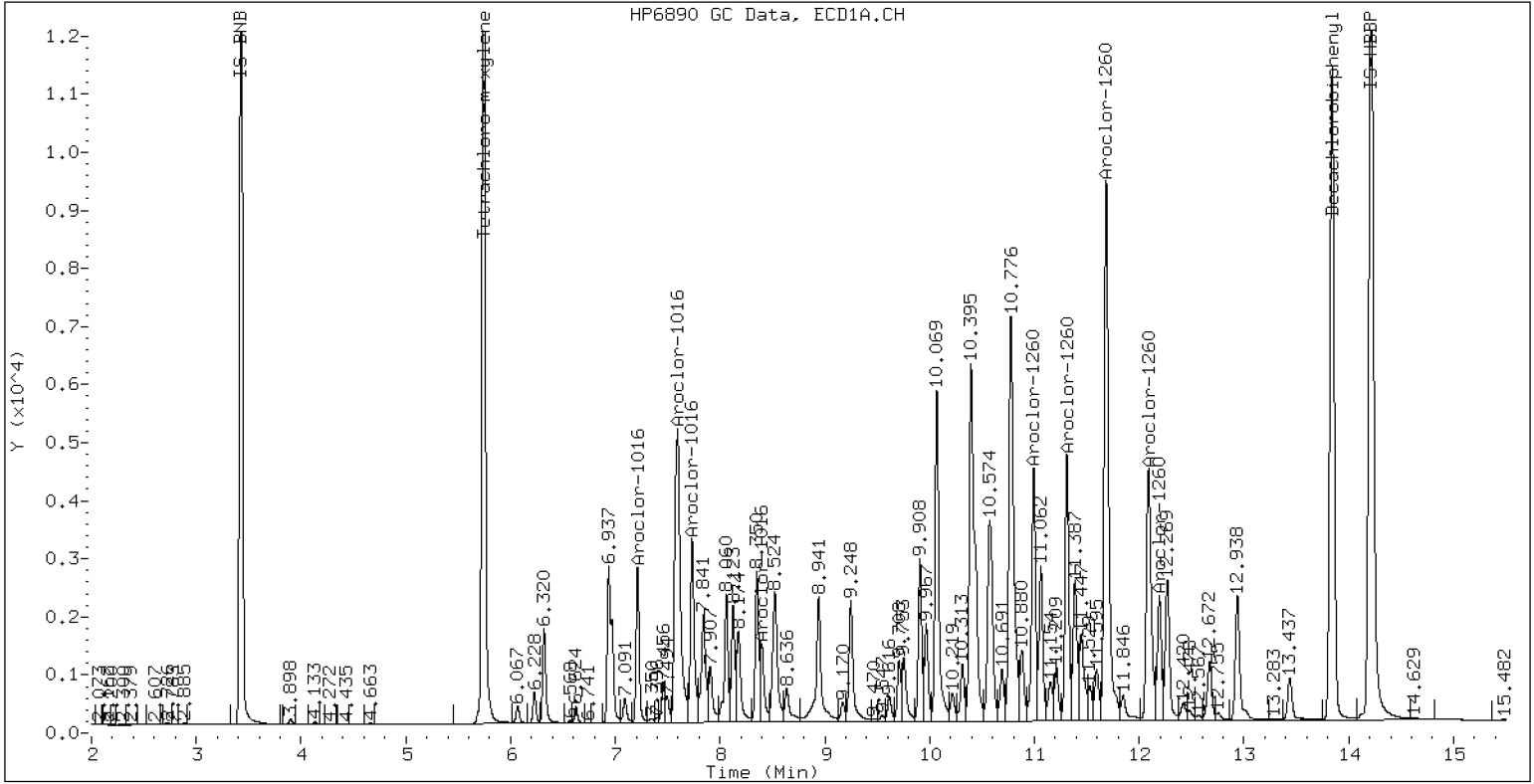
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.5PPMAR1660

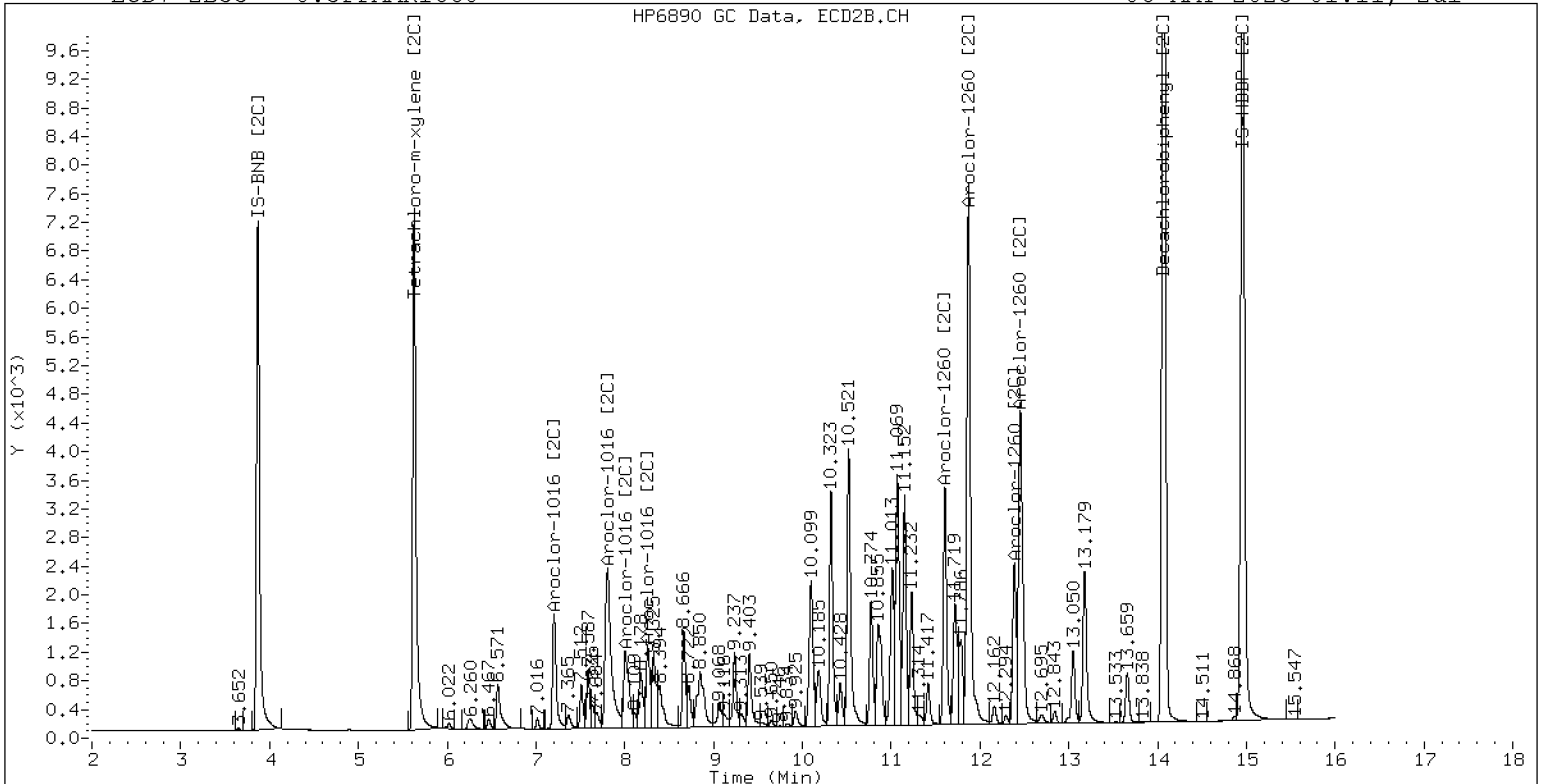
06-MAY-2023 01:11, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 0.5PPMAR1660

06-MAY-2023 01:11, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052327ECD7.D  
Data file 2: /230505.b/230505.b/05052327ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: AR1242.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.25PPMAR1242  
Client ID:  
Injection Date: 06-MAY-2023 01:31  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.742  | -0.000        | 447397   | 5.627  | -0.001         | 235808   | 47.5       | 47.6        | 0.3 | Tetrachloro-m-xylene |
| 13.842 | 0.001         | 336070   | 14.068 | 0.000          | 375985   | 36.4       | 38.8        | 6.2 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 625349      | 4.0 |
| Hexabromobiphenyl  | 876625         | 923197      | 5.3 |
| Column 2           |                |             |     |
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 359808      | 3.0 |
| Hexabromobiphenyl  | 652984         | 683116      | 4.6 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |       |        |        | ZB35 Col                 |       |       |       |               |
|--------------------------|-------|-------|-------|--------|--------|--------------------------|-------|-------|-------|---------------|
| Aroclor                  | Peak# | RT    | Shift | Area   | Amount | Peak#                    | RT    | Shift | Area  | Amount        |
| Aroclor-1242             | 1     | 7.212 | 0.000 | 49262  | 250.0  | 1                        | 7.203 | 0.000 | 40200 | 250.0         |
| Aroclor-1242             | 2     | 7.595 | 0.000 | 156103 | 250.0  | 2                        | 7.812 | 0.000 | 85524 | 250.0         |
| Aroclor-1242             | 3     | 8.398 | 0.000 | 30193  | 250.0  | 3                        | 9.123 | 0.000 | 27418 | 250.0         |
| Aroclor-1242             | 4     | 8.525 | 0.000 | 69876  | 250.0  | 4                        | 9.550 | 0.000 | 33043 | 250.0         |
| Total CollAve (4 peaks): |       |       |       | 250.0  |        | Total Col2Ave (4 peaks): |       |       |       | 250.0 RPD = 0 |
| Corrected Ave (3 peaks): |       |       |       | 250.0  |        | Corrected Ave (3 peaks): |       |       |       | 250.0 RPD = 0 |

Total PCB Area Coll (5.842 - 13.740) = 1203666 Coll Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 643088 Col2 Total PCB = 0.1 ppm\*

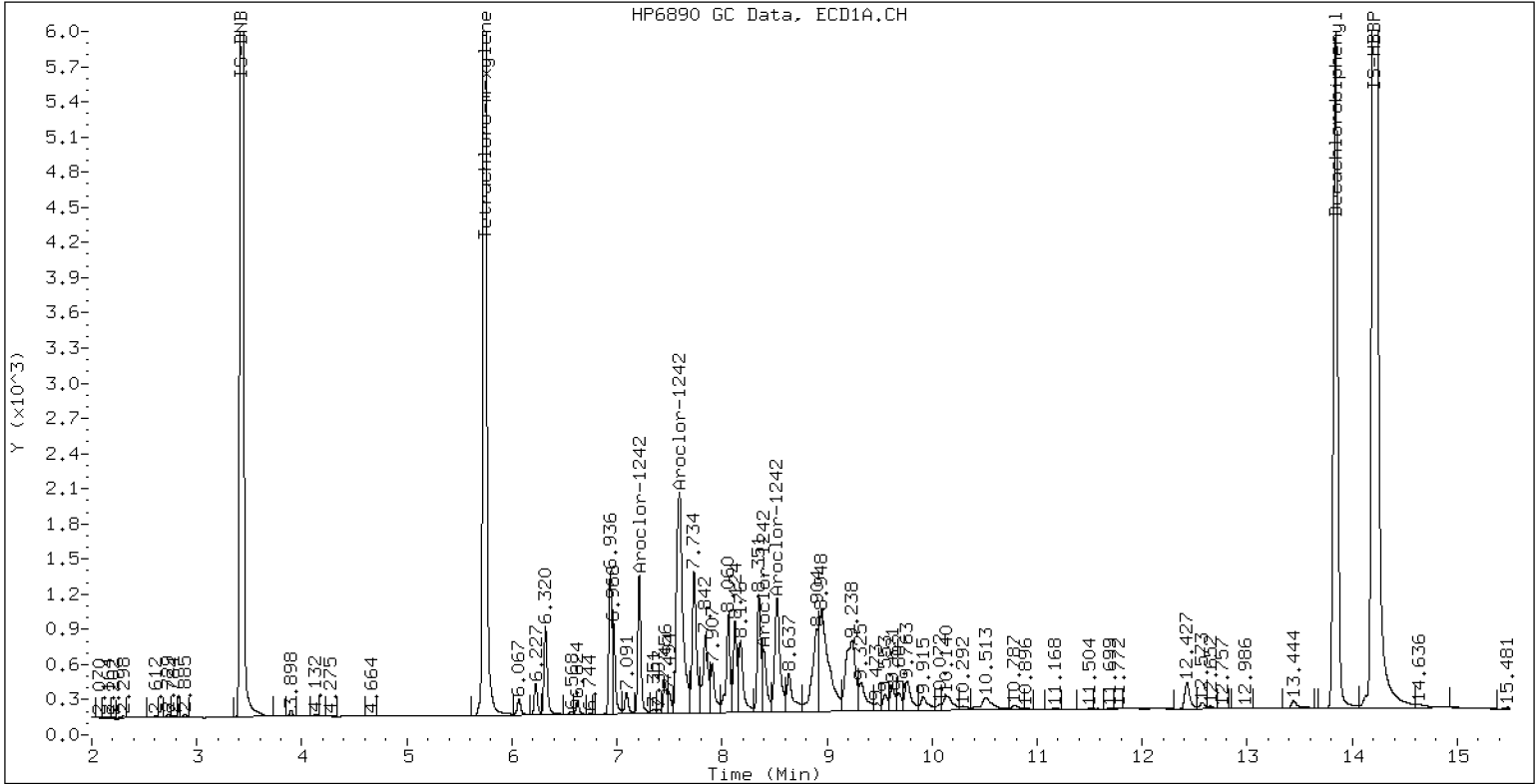
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1242

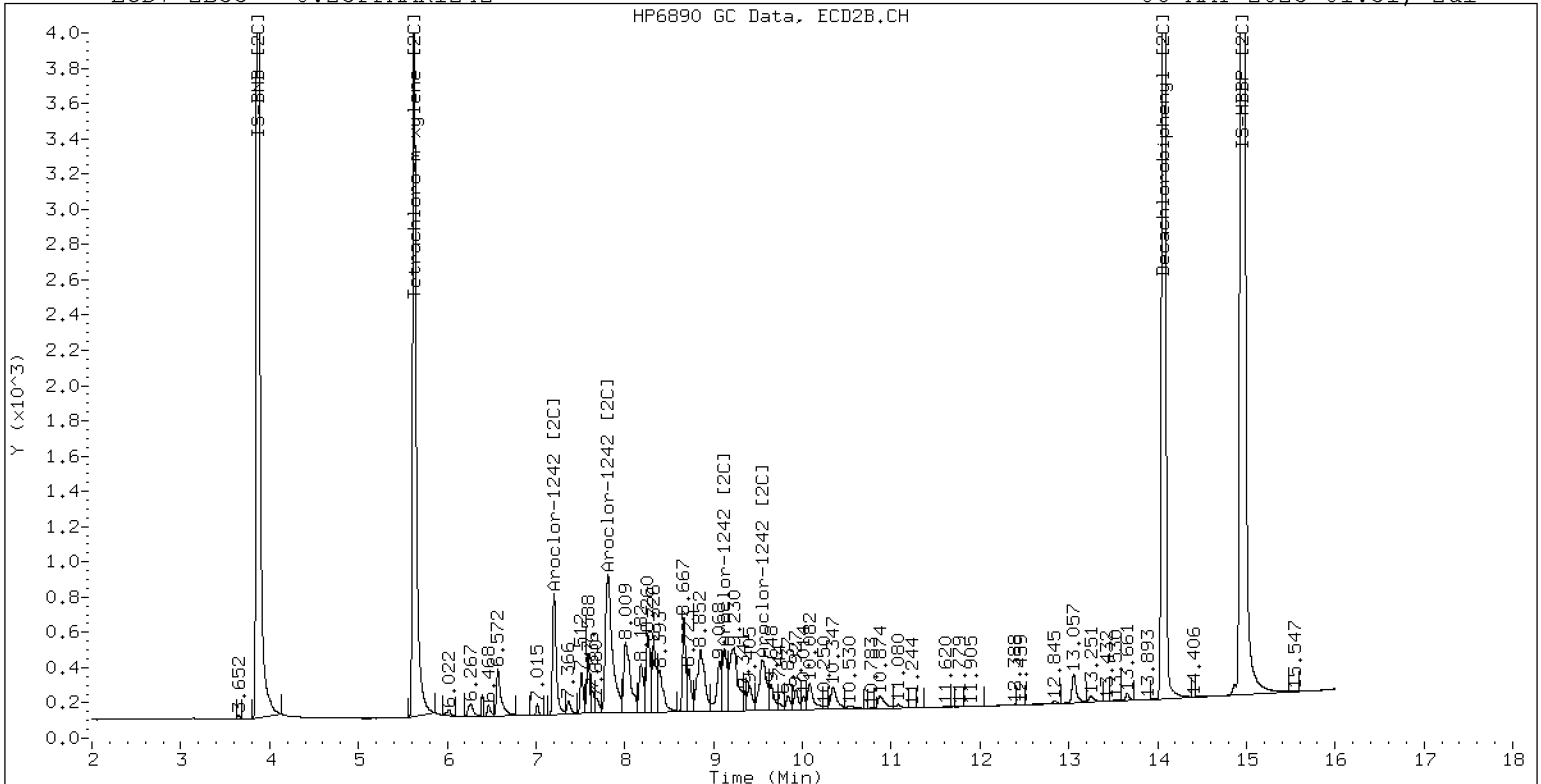
06-MAY-2023 01:31, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1242

06-MAY-2023 01:31, 2ul

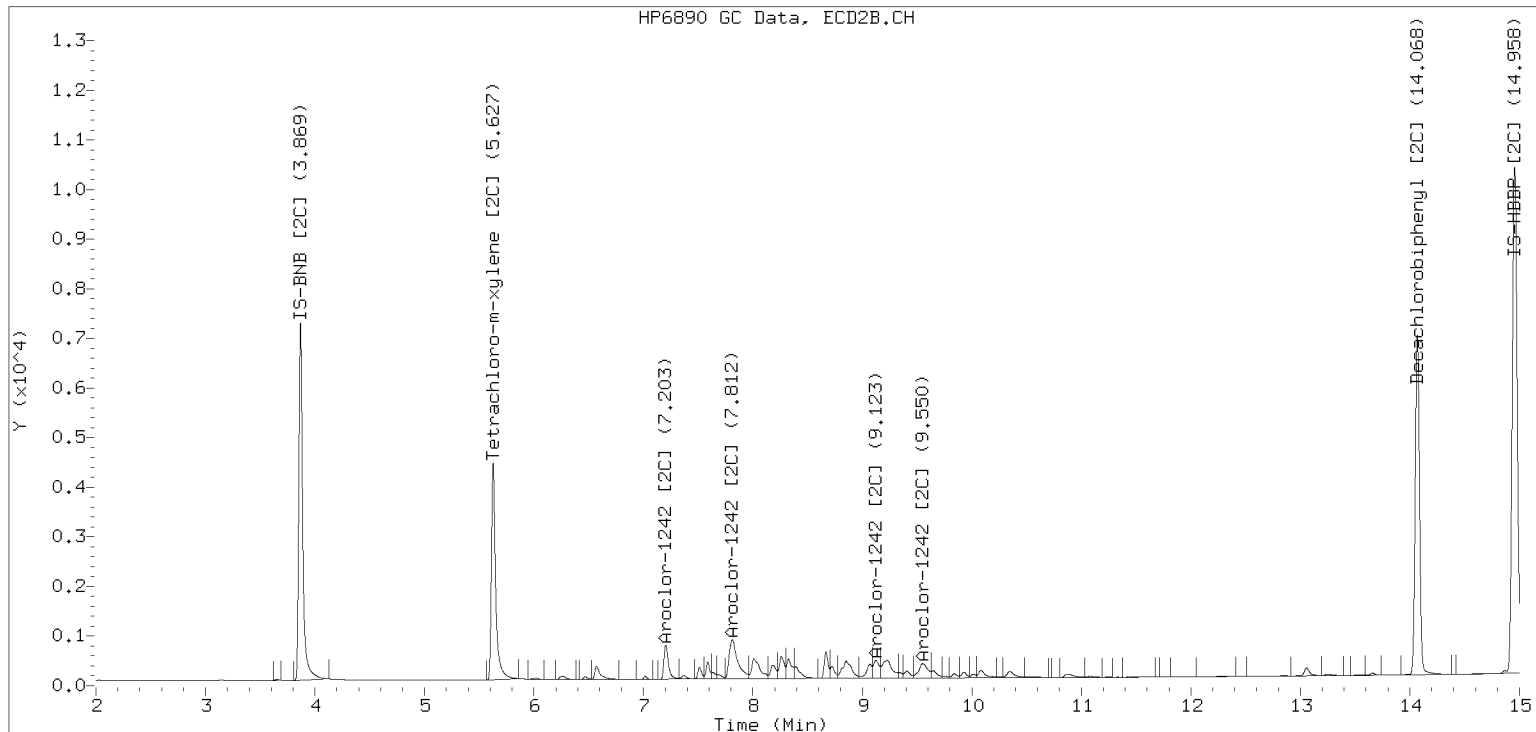


ZB-35 Manual Integration: YES

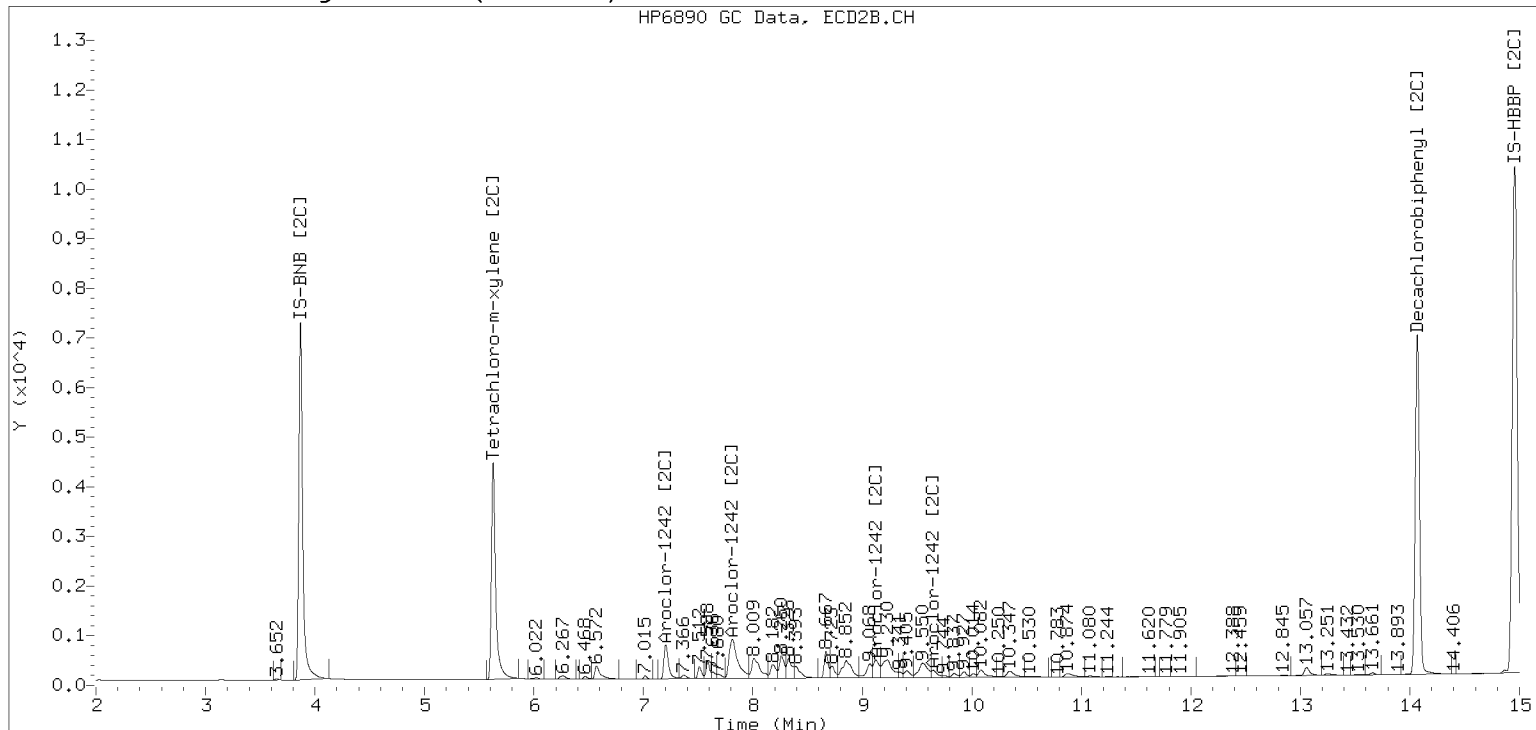
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230505.b/230505.b/05052327ECD7.D Injection Date: 06-MAY-2023

Manual Integration (After)



Processed Integration (Before)





Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052328ECD7.D  
Data file 2: /230505.b/230505.b/05052328ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: AR1248.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.25PPMAR1248  
Client ID:  
Injection Date: 06-MAY-2023 01:52  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.741   | -0.001 | 363354   | 5.628  | -0.000 | 193087   | 38.8   | 39.5 | 1.9           | Tetrachloro-m-xylene |
| 13.843  | 0.003  | 347513   | 14.070 | 0.002  | 386262   | 38.0   | 40.3 | 5.9           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 621905      | 3.4 |
| Hexabromobiphenyl  | 876625         | 915805      | 4.5 |

| Column 2           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 354920      | 1.6 |
| Hexabromobiphenyl  | 652984         | 674778      | 3.3 |

\* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 05-MAY-2023

<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col ZB35 Col

| Aroclor                  | Peak# | RT    | Shift | Area   | Amount                   | Peak# | RT    | Shift | Area  | Amount  |
|--------------------------|-------|-------|-------|--------|--------------------------|-------|-------|-------|-------|---------|
| Aroclor-1248             | 1     | 8.399 | 0.000 | 39684  | 250.0                    | 1     | 8.260 | 0.000 | 42211 | 250.0   |
| Aroclor-1248             | 2     | 8.524 | 0.000 | 103126 | 250.0                    | 2     | 8.667 | 0.000 | 44588 | 250.0   |
| Aroclor-1248             | 3     | 8.944 | 0.000 | 198327 | 250.0                    | 3     | 9.120 | 0.000 | 52266 | 250.0   |
| Aroclor-1248             | 4     | 9.243 | 0.000 | 101099 | 250.0                    | 4     | 9.546 | 0.000 | 62674 | 250.0   |
| Total Col1Ave (4 peaks): |       |       |       | 250.0  | Total Col2Ave (4 peaks): |       |       |       | 250.0 | RPD = 0 |
| Corrected Ave (3 peaks): |       |       |       | 250.0  | Corrected Ave (3 peaks): |       |       |       | 250.0 | RPD = 0 |

Total PCB Area Col1 (5.842 - 13.740) = 1607435 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 866525 Col2 Total PCB = 0.2 ppm\*

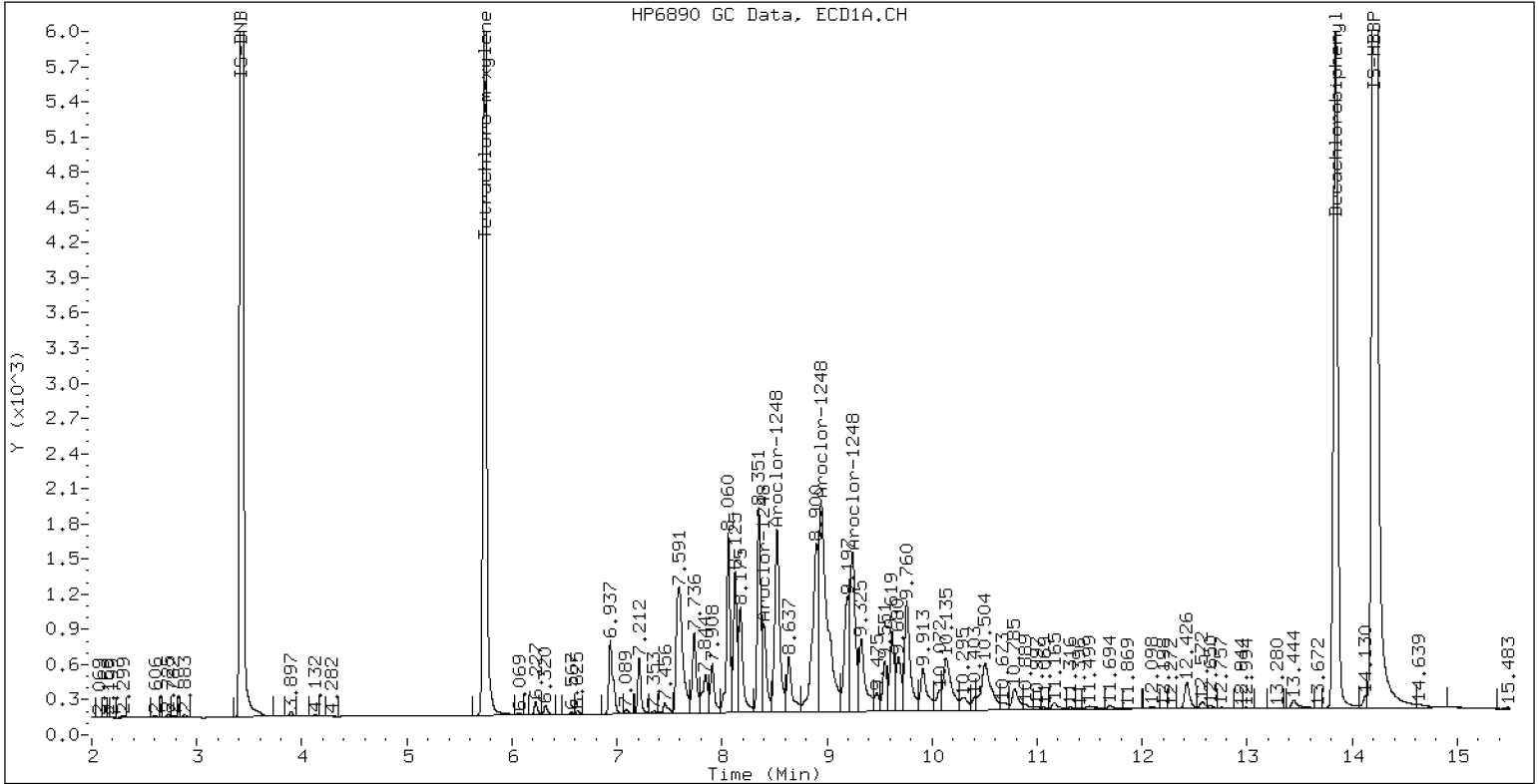
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1248

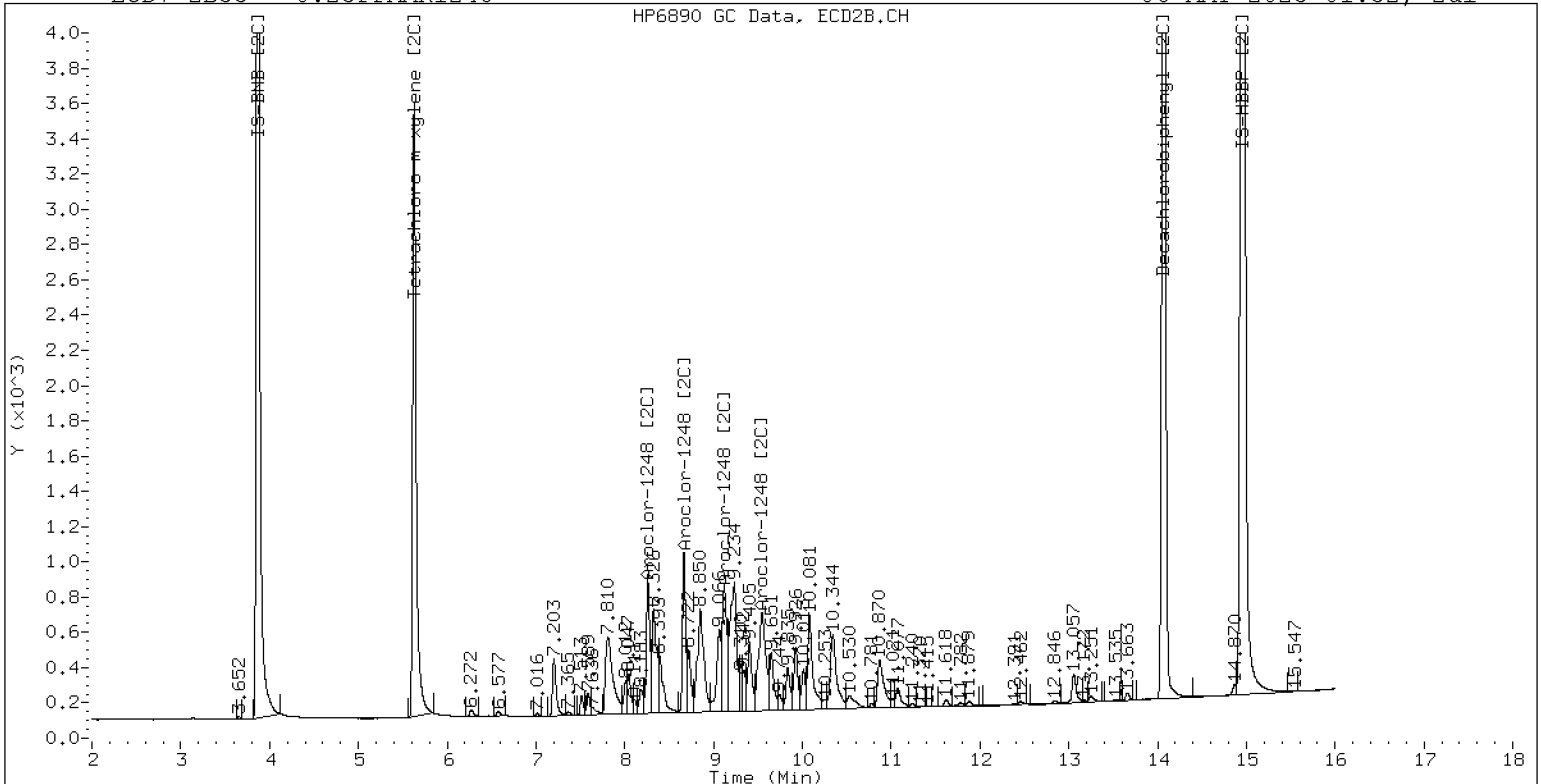
06-MAY-2023 01:52, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1248

06-MAY-2023 01:52, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052329ECD7.D  
Data file 2: /230505.b/230505.b/05052329ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: AR1254.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.25PPMAR1254  
Client ID:  
Injection Date: 06-MAY-2023 02:13  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.742  | 0.000         | 357984   | 5.629  | 0.001          | 190255   | 37.8       | 38.5        | 1.8 | Tetrachloro-m-xylene |
| 13.842 | 0.002         | 347079   | 14.071 | 0.002          | 385540   | 37.4       | 39.8        | 6.1 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 628765      | 4.5 |
| Hexabromobiphenyl  | 876625         | 929076      | 6.0 |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 359470      | 2.9 |
| Hexabromobiphenyl  | 652984         | 682882      | 4.6 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |       |        | ZB35 Col |                          |        |       |        |               |
|--------------------------|-------|--------|-------|--------|----------|--------------------------|--------|-------|--------|---------------|
| Aroclor                  | Peak# | RT     | Shift | Area   | Amount   | Peak#                    | RT     | Shift | Area   | Amount        |
| Aroclor-1254             | 1     | 9.246  | 0.000 | 161557 | 250.0    | 1                        | 9.404  | 0.000 | 68278  | 250.0         |
| Aroclor-1254             | 2     | 9.325  | 0.000 | 72588  | 250.0    | 2                        | 9.499  | 0.000 | 40561  | 250.0         |
| Aroclor-1254             | 3     | 9.618  | 0.000 | 104295 | 250.0    | 3                        | 9.924  | 0.000 | 55343  | 250.0         |
| Aroclor-1254             | 4     | 9.756  | 0.000 | 204288 | 250.0    | 4                        | 10.078 | 0.000 | 120775 | 250.0         |
| Aroclor-1254             | 5     | 10.126 | 0.000 | 123377 | 250.0    | 5                        | 10.328 | 0.000 | 119827 | 250.0         |
| Total CollAve (5 peaks): |       |        |       | 250.0  |          | Total Col2Ave (5 peaks): |        |       |        | 250.0 RPD = 0 |
| Corrected Ave (4 peaks): |       |        |       | 250.0  |          | Corrected Ave (4 peaks): |        |       |        | 250.0 RPD = 0 |

Total PCB Area Coll (5.842 - 13.740) = 2115446 Coll Total PCB = 0.3 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 1173654 Col2 Total PCB = 0.3 ppm\*

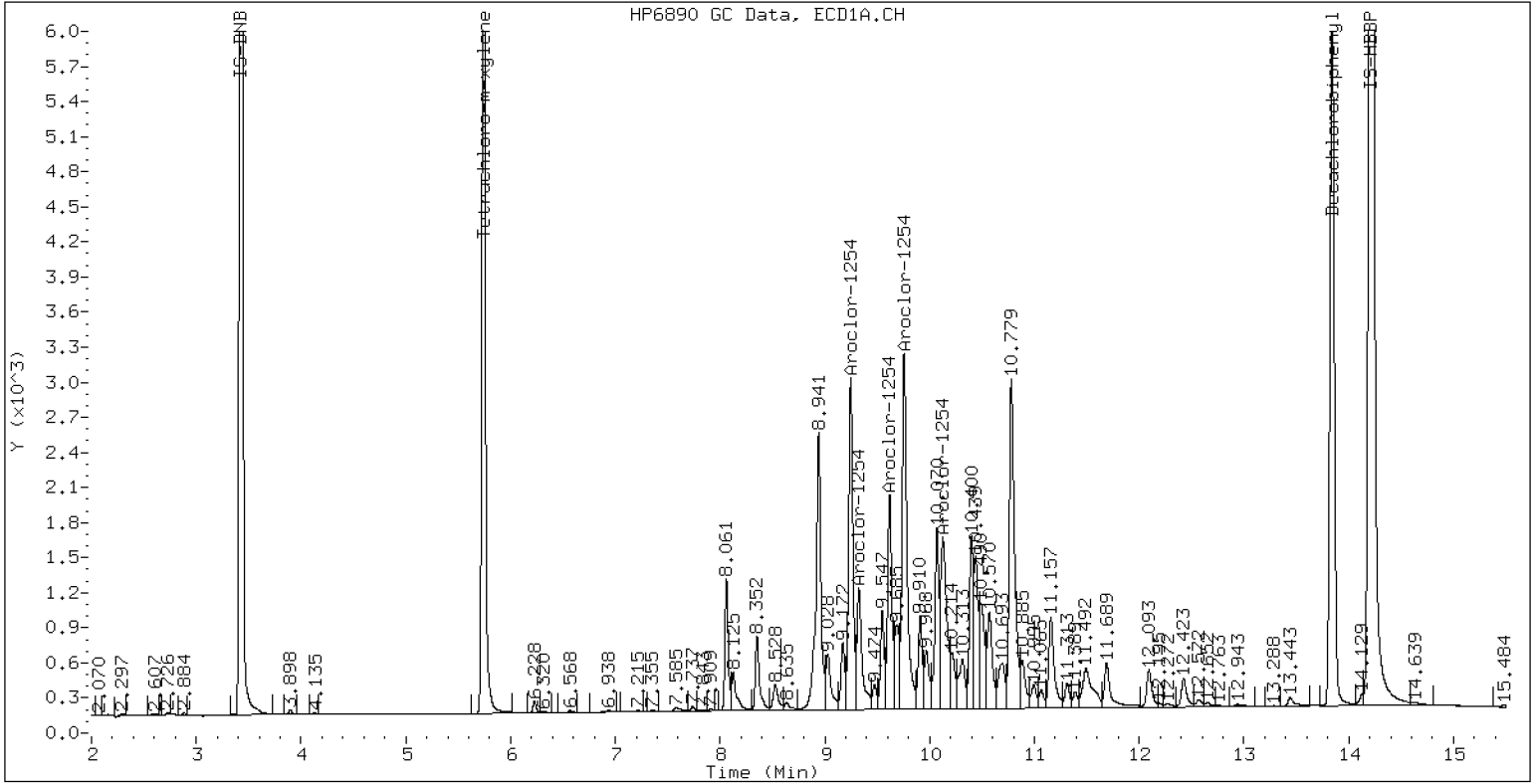
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1254

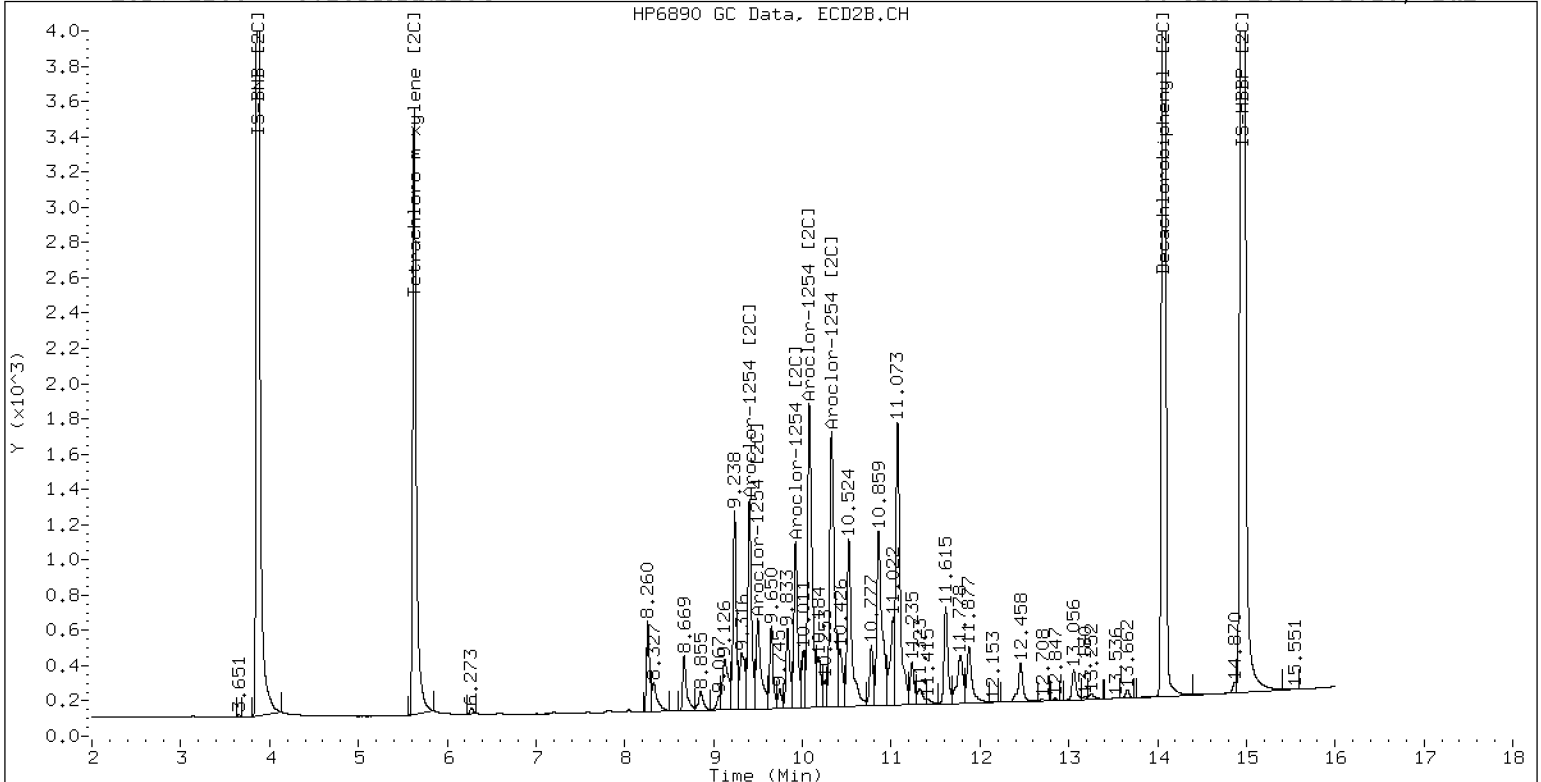
06-MAY-2023 02:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1254

06-MAY-2023 02:13, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052330ECD7.D                   ARI ID: 0.25PPMAR2162  
Data file 2: /230505.b/230505.b/05052330ECD7.D           Client ID:  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m       Injection Date: 06-MAY-2023 02:34  
Compound Sublist: AR2162.sub                               Report Date: 05/06/2023 11:30  
Instrument, Inj. Vol.: ecd7.i, 2ul                         Matrix: NONE  
Quant Method: Internal Std                                 Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.742  | -0.000        | 379099   | 5.628  | 0.000          | 200082   | 39.7       | 40.8        | 2.7 | Tetrachloro-m-xylene |
| 13.842 | 0.001         | 358012   | 14.071 | 0.003          | 396142   | 38.1       | 40.5        | 6.1 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 634497      | 5.5 |
| Hexabromobiphenyl  | 876625         | 940541      | 7.3 |
| Column 2           |                |             |     |
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 356713      | 2.1 |
| Hexabromobiphenyl  | 652984         | 688599      | 5.5 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |       |       | ZB35 Col |                          |       |       |       |               |
|--------------------------|-------|-------|-------|-------|----------|--------------------------|-------|-------|-------|---------------|
| Aroclor                  | Peak# | RT    | Shift | Area  | Amount   | Peak#                    | RT    | Shift | Area  | Amount        |
| Aroclor-1221             | 1     | 4.663 | 0.000 | 11156 | 250.0    | 1                        | 4.894 | 0.000 | 6578  | 250.0         |
| Aroclor-1221             | 2     | 6.069 | 0.000 | 22382 | 250.0    | 2                        | 6.245 | 0.000 | 13633 | 250.0         |
| Aroclor-1221             | 3     | 6.321 | 0.000 | 53161 | 250.0    | 3                        | 6.572 | 0.000 | 21443 | 250.0         |
| Total CollAve (3 peaks): |       |       |       | 250.0 |          | Total Col2Ave (3 peaks): |       |       |       | 250.0 RPD = 0 |
| Corrected Ave: < 3 Peaks |       |       |       |       |          | Corrected Ave: < 3 Peaks |       |       |       |               |

|                          |   |        |       |        |       |                          |        |       |        |               |
|--------------------------|---|--------|-------|--------|-------|--------------------------|--------|-------|--------|---------------|
| Aroclor-1262             | 1 | 10.779 | 0.000 | 106373 | 250.0 | 1                        | 11.153 | 0.000 | 139491 | 250.0         |
| Aroclor-1262             | 2 | 12.195 | 0.000 | 149596 | 250.0 | 2                        | 11.605 | 0.000 | 117643 | 250.0         |
| Aroclor-1262             | 3 | 12.269 | 0.000 | 160810 | 250.0 | 3                        | 12.386 | 0.000 | 128556 | 250.0         |
| Aroclor-1262             | 4 | 12.939 | 0.000 | 131044 | 250.0 | 4                        | 12.456 | 0.000 | 209520 | 250.0         |
| Total CollAve (4 peaks): |   |        |       | 250.0  |       | Total Col2Ave (4 peaks): |        |       |        | 250.0 RPD = 0 |
| Corrected Ave (3 peaks): |   |        |       | 250.0  |       | Corrected Ave (3 peaks): |        |       |        | 250.0 RPD = 0 |

Total PCB Area Coll (5.842 - 13.740) = 2742242 Coll Total PCB = 0.4 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 1852573 Col2 Total PCB = 0.4 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

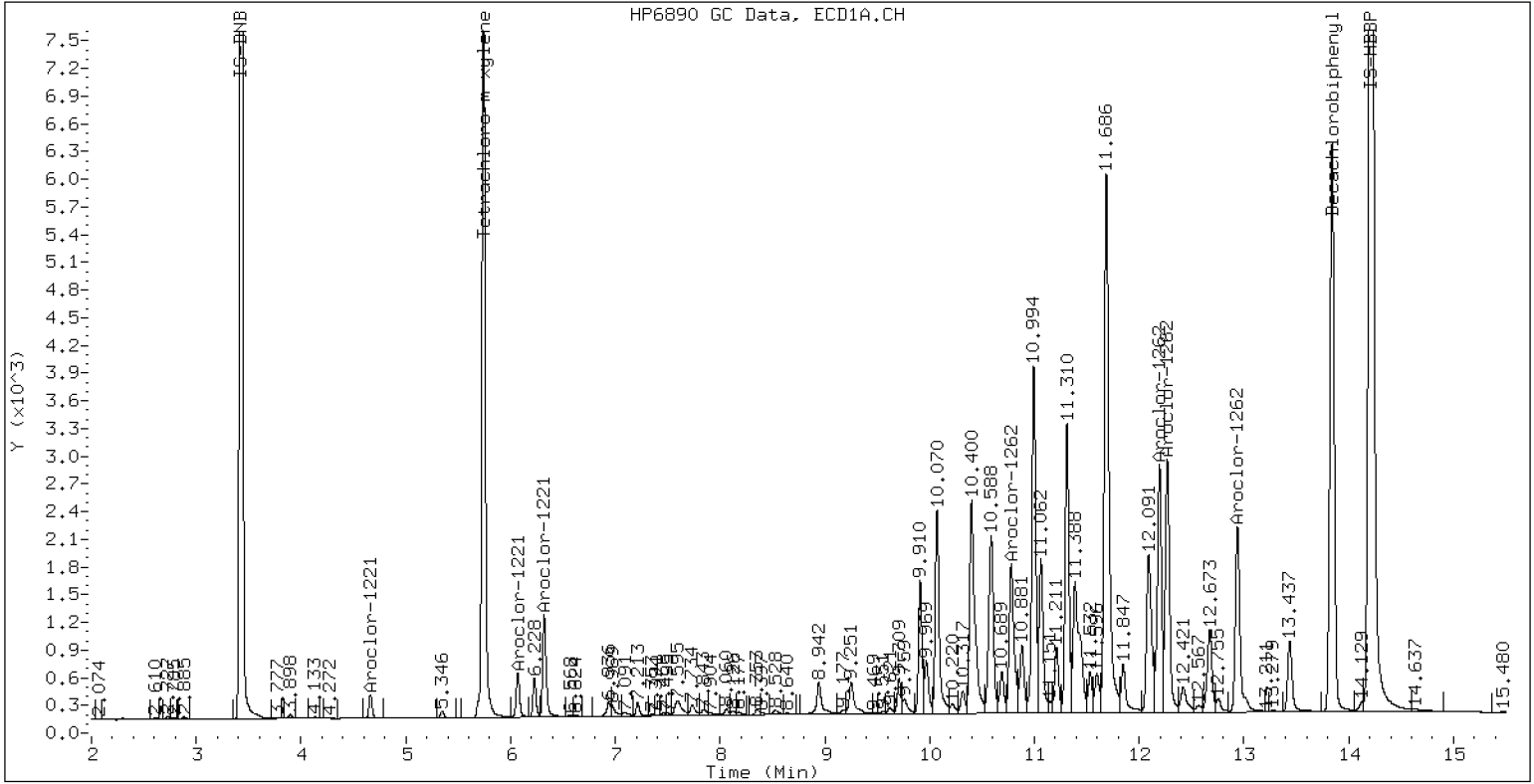
PCB-Form 10 Mod.



# PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR2162

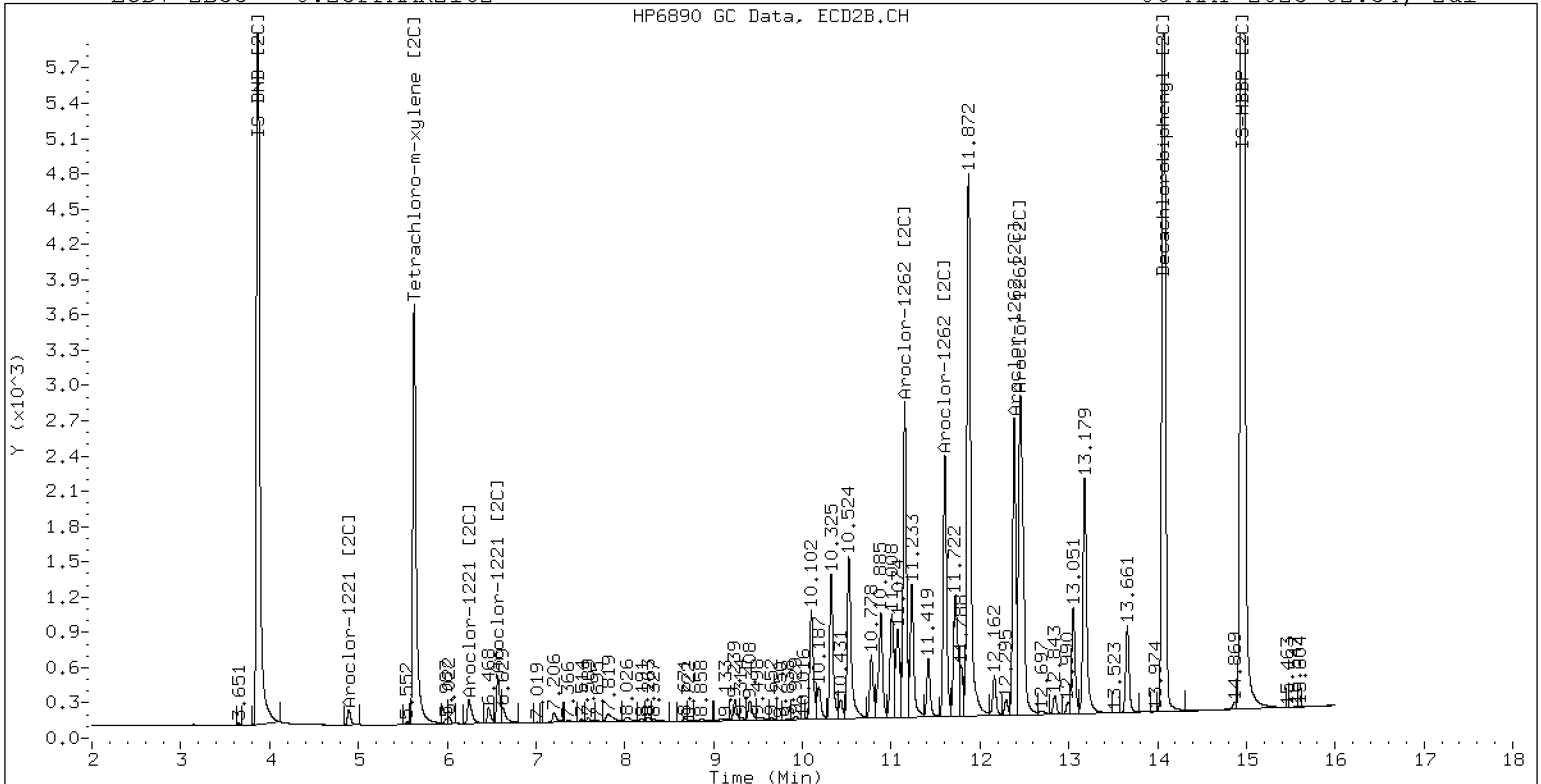
06-MAY-2023 02:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR2162

06-MAY-2023 02:34, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052331ECD7.D  
Data file 2: /230505.b/230505.b/05052331ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: AR3268.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: 0.25PPMAR3268  
Client ID:  
Injection Date: 06-MAY-2023 02:55  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.742  | 0.000         | 378314   | 5.628  | 0.000          | 200538   | 38.9       | 40.3        | 3.4 | Tetrachloro-m-xylene |
| 13.840 | 0.000         | 502472   | 14.068 | 0.000          | 573501   | 52.2       | 57.3        | 9.3 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 644974      | 7.2 |
| Hexabromobiphenyl  | 876625         | 963091      | 9.9 |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 361821      | 3.6 |
| Hexabromobiphenyl  | 652984         | 704753      | 7.9 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |       |        |        | ZB35 Col                 |        |       |        |               |
|--------------------------|-------|--------|-------|--------|--------|--------------------------|--------|-------|--------|---------------|
| Aroclor                  | Peak# | RT     | Shift | Area   | Amount | Peak#                    | RT     | Shift | Area   | Amount        |
| Aroclor-1232             | 1     | 4.664  | 0.000 | 7554   | 250.0  | 1                        | 4.894  | 0.000 | 3508   | 250.0         |
| Aroclor-1232             | 2     | 6.069  | 0.000 | 15718  | 250.0  | 2                        | 7.205  | 0.000 | 20084  | 250.0         |
| Aroclor-1232             | 3     | 7.595  | 0.000 | 74881  | 250.0  | 3                        | 7.815  | 0.000 | 40344  | 250.0         |
| Aroclor-1232             | 4     | 8.527  | 0.000 | 32051  | 250.0  | 4                        | 8.669  | 0.000 | 11684  | 250.0         |
| Total CollAve (4 peaks): |       |        |       | 250.0  |        | Total Col2Ave (4 peaks): |        |       |        | 250.0 RPD = 0 |
| Corrected Ave (3 peaks): |       |        |       | 250.0  |        | Corrected Ave (3 peaks): |        |       |        | 250.0 RPD = 0 |
|                          |       |        |       |        |        |                          |        |       |        |               |
| Aroclor-1268             | 1     | 12.196 | 0.000 | 384005 | 250.0  | 1                        | 12.385 | 0.000 | 333421 | 250.0         |
| Aroclor-1268             | 2     | 12.268 | 0.000 | 381367 | 250.0  | 2                        | 12.452 | 0.000 | 358458 | 250.0         |
| Aroclor-1268             | 3     | 12.648 | 0.000 | 306717 | 250.0  | 3                        | 12.843 | 0.000 | 306959 | 250.0         |
| Aroclor-1268             | 4     | 13.437 | 0.000 | 875751 | 250.0  | 4                        | 13.663 | 0.000 | 983908 | 250.0         |
| Total CollAve (4 peaks): |       |        |       | 250.0  |        | Total Col2Ave (4 peaks): |        |       |        | 250.0 RPD = 0 |
| Corrected Ave (3 peaks): |       |        |       | 250.0  |        | Corrected Ave (3 peaks): |        |       |        | 250.0 RPD = 0 |

Total PCB Area Coll (5.842 - 13.740) = 3124318 Coll Total PCB = 0.4 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 2731202 Col2 Total PCB = 0.6 ppm\*

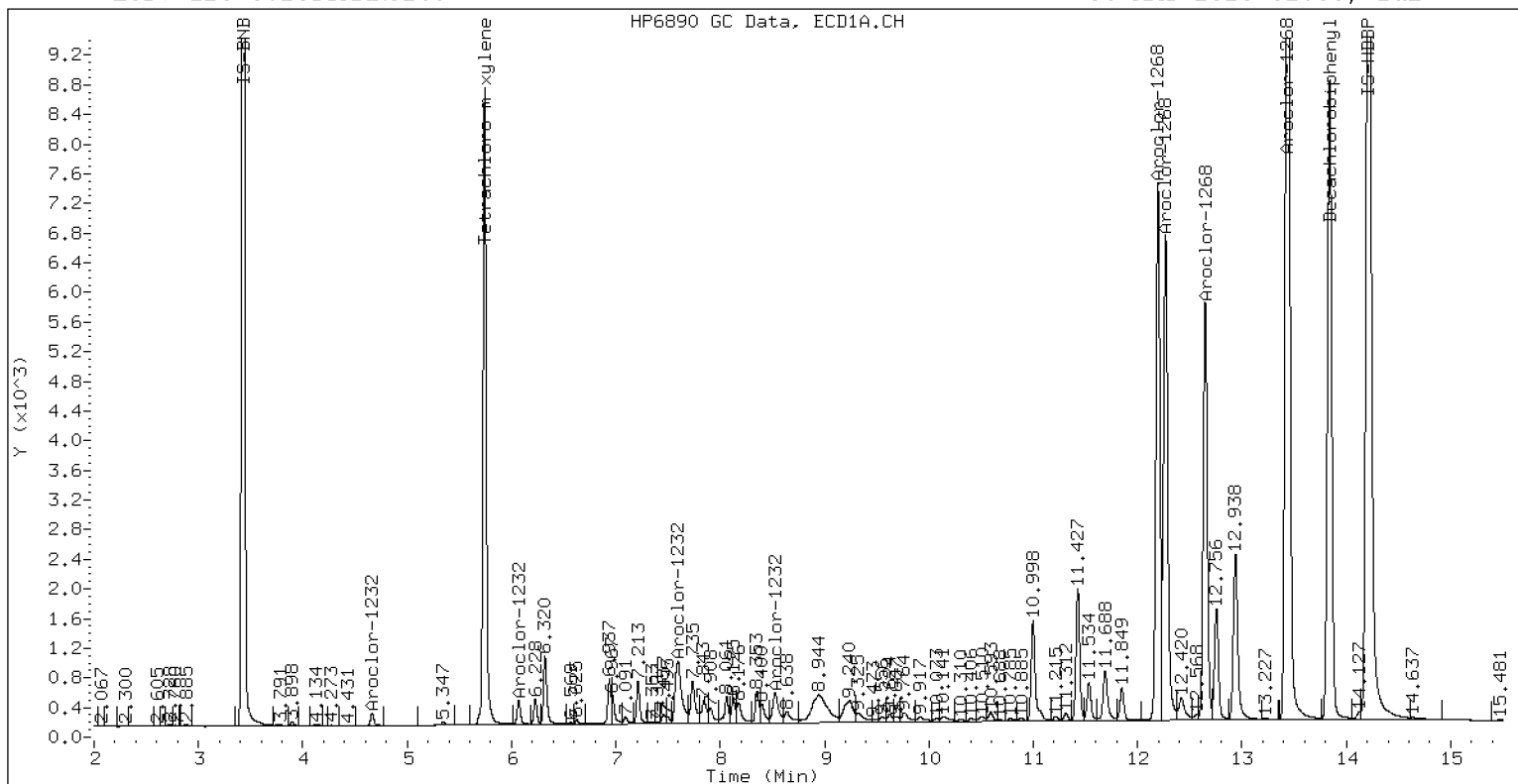
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR3268

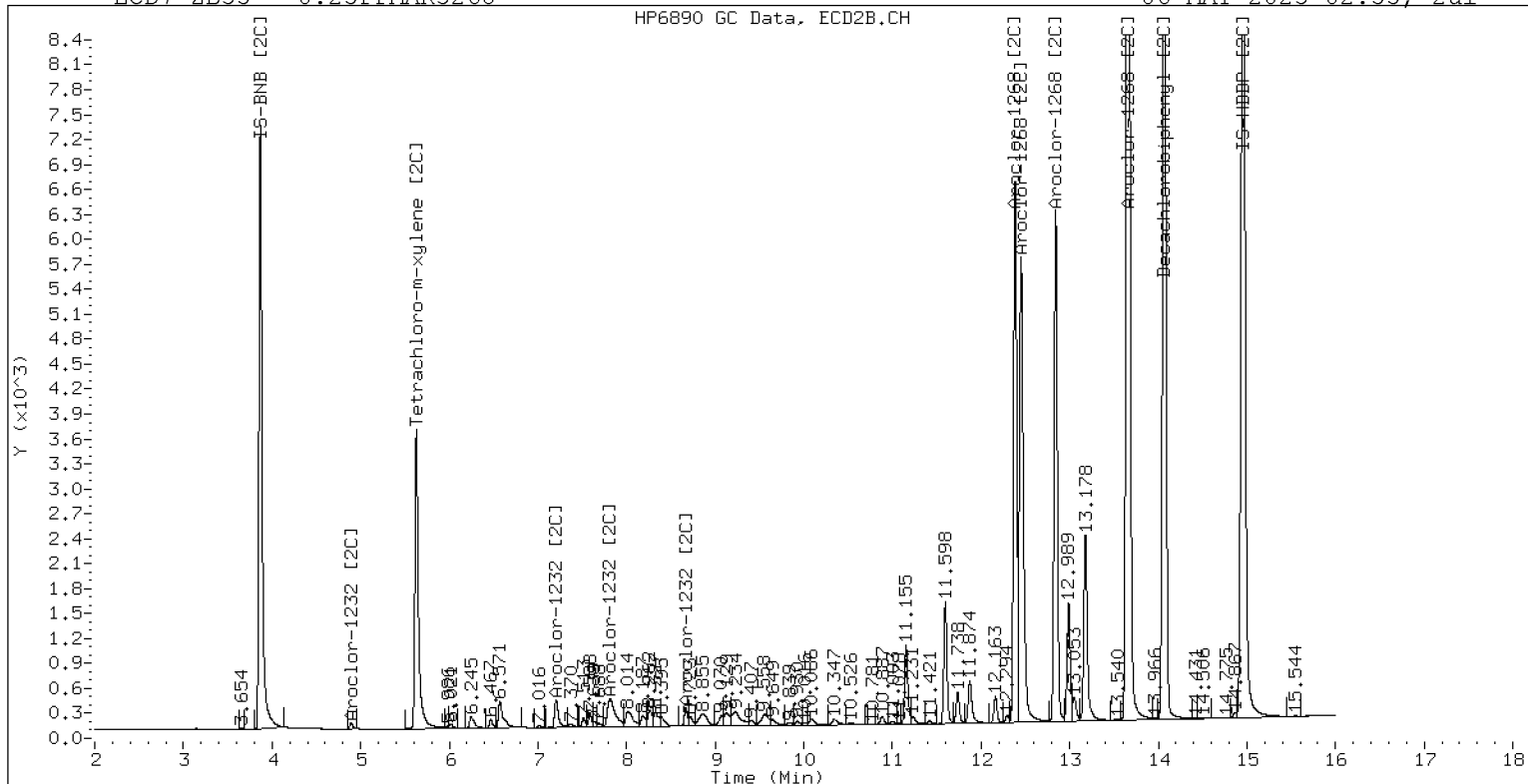
06-MAY-2023 02:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR3268

06-MAY-2023 02:55, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052332ECD7.D  
Data file 2: /230505.b/230505.b/05052332ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660SCV  
Client ID:  
Injection Date: 06-MAY-2023 03:16  
Report Date: 05/06/2023 12:06  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |       | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|-------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift | Response | on col |      |               | on col               |
| 5.742   | -0.000 | 356595   | 5.629  | 0.000 | 185340   | 36.9   | 37.2 | 1.0           | Tetrachloro-m-xylene |
| 13.842  | 0.002  | 347188   | 14.070 | 0.002 | 384711   | 36.9   | 39.2 | 6.1           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 642284      | 6.8 |
| Hexabromobiphenyl  | 876625         | 941356      | 7.4 |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 361711      | 3.6 |
| Hexabromobiphenyl  | 652984         | 690563      | 5.8 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |        |                 |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|-----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area   | Amount          |
| Aroclor-1016             | 1     | 7.213  | 0.000  | 61654  | 247.9    | 1                        | 7.205  | 0.001  | 50106  | 244.7           |
| Aroclor-1016             | 2     | 7.594  | -0.001 | 199228 | 256.2    | 2                        | 7.811  | 0.003  | 109839 | 251.7           |
| Aroclor-1016             | 3     | 7.734  | 0.001  | 89643  | 249.3    | 3                        | 8.009  | 0.004  | 48594  | 252.5           |
| Aroclor-1016             | 4     | 8.399  | 0.001  | 38714  | 261.0    | 4                        | 8.260  | 0.001  | 36878  | 241.2           |
| Total CollAve (4 peaks): |       |        |        | 253.6  |          | Total Col2Ave (4 peaks): |        |        |        | 247.5 RPD = 2   |
| Corrected Ave (3 peaks): |       |        |        | 251.1  |          | Corrected Ave (3 peaks): |        |        |        | 245.9 RPD = 2   |
| Aroclor-1221             | 1     | 4.663  | -0.000 | 436    | 9.7      | 1                        | ---    |        |        | 0.0             |
| Aroclor-1221             | 2     | 6.068  | -0.001 | 8521   | 94.0     | 2                        | 6.251  | 0.005  | 5766   | 104.3           |
| Aroclor-1221             | 3     | 6.320  | -0.001 | 41973  | 195.0    | 3                        | 6.572  | 0.000  | 23212  | 266.9           |
| Total CollAve (3 peaks): |       |        |        | 99.6   |          | Col2Ave: <3 Quant Peaks  |        |        |        |                 |
| Aroclor-1232             | 1     | 4.663  | -0.000 | 436    | 14.5     | 1                        | ---    |        |        | 0.0             |
| Aroclor-1232             | 2     | 6.068  | -0.002 | 8521   | 136.1    | 2                        | 7.205  | 0.000  | 50106  | 623.9           |
| Aroclor-1232             | 3     | 7.594  | -0.001 | 199228 | 667.9    | 3                        | 7.811  | -0.004 | 109839 | 680.8           |
| Aroclor-1232             | 4     | 8.526  | -0.001 | 85985  | 673.5    | 4                        | 8.667  | -0.003 | 34670  | 742.1           |
| Total CollAve (4 peaks): |       |        |        | 373.0  |          | Total Col2Ave (3 peaks): |        |        |        | 682.3 RPD = 59* |
| Corrected Ave (3 peaks): |       |        |        | 272.8  |          | Corrected Ave: < 3 Peaks |        |        |        |                 |
| Aroclor-1242             | 1     | 7.213  | 0.001  | 61654  | 304.6    | 1                        | 7.205  | 0.001  | 50106  | 310.0           |
| Aroclor-1242             | 2     | 7.594  | -0.001 | 199228 | 310.7    | 2                        | 7.811  | -0.002 | 109839 | 319.4           |
| Aroclor-1242             | 3     | 8.399  | 0.000  | 38714  | 312.1    | 3                        | 9.069  | -0.054 | 21513  | 195.1           |
| Aroclor-1242             | 4     | 8.526  | 0.001  | 85985  | 299.5    | 4                        | 9.537  | -0.013 | 1824   | 13.7            |
| Total CollAve (4 peaks): |       |        |        | 306.7  |          | Total Col2Ave (4 peaks): |        |        |        | 209.6 RPD = 38  |
| Corrected Ave (3 peaks): |       |        |        | 304.9  |          | Corrected Ave (3 peaks): |        |        |        | 172.9 RPD = 55* |
| Aroclor-1248             | 1     | 8.399  | -0.000 | 38714  | 236.2    | 1                        | 8.260  | 0.000  | 36878  | 214.3           |
| Aroclor-1248             | 2     | 8.526  | 0.001  | 85985  | 201.8    | 2                        | 8.667  | -0.001 | 34670  | 190.7           |
| Aroclor-1248             | 3     | 8.941  | -0.003 | 81615  | 99.6     | 3                        | 9.069  | -0.051 | 21513  | 101.0           |
| Aroclor-1248             | 4     | 9.249  | 0.006  | 52526  | 125.8    | 4                        | 9.537  | -0.008 | 1824   | 7.1             |
| Total CollAve (4 peaks): |       |        |        | 165.8  |          | Total Col2Ave (4 peaks): |        |        |        | 128.3 RPD = 26  |
| Corrected Ave (3 peaks): |       |        |        | 142.4  |          | Corrected Ave (3 peaks): |        |        |        | 99.6 RPD = 35   |
| Aroclor-1254             | 1     | 9.249  | 0.003  | 52526  | 79.6     | 1                        | 9.405  | 0.001  | 24726  | 90.0            |
| Aroclor-1254             | 2     | ---    |        |        | 0.0      | 2                        | 9.537  | 0.038  | 1824   | 11.2            |
| Aroclor-1254             | 3     | 9.619  | 0.001  | 7081   | 16.6     | 3                        | 9.926  | 0.002  | 3128   | 14.0            |
| Aroclor-1254             | 4     | 9.756  | 0.001  | 21856  | 26.2     | 4                        | 10.101 | 0.023  | 62581  | 128.7           |
| Aroclor-1254             | 5     | 10.069 | -0.057 | 159796 | 317.0    | 5                        | 10.324 | -0.004 | 85433  | 177.1           |
| Total CollAve (4 peaks): |       |        |        | 109.8  |          | Total Col2Ave (5 peaks): |        |        |        | 84.2 RPD = 26   |
| Corrected Ave (3 peaks): |       |        |        | 40.8   |          | Corrected Ave (4 peaks): |        |        |        | 61.0 RPD = 40   |
| Aroclor-1260             | 1     | 10.995 | 0.001  | 145767 | 292.8    | 1                        | 11.605 | -0.000 | 99761  | 272.0           |
| Aroclor-1260             | 2     | 11.311 | 0.001  | 142028 | 289.1    | 2                        | 11.872 | 0.000  | 273505 | 285.1           |
| Aroclor-1260             | 3     | 11.686 | 0.000  | 354468 | 288.1    | 3                        | 12.389 | 0.001  | 70545  | 296.8           |
| Aroclor-1260             | 4     | 12.092 | 0.002  | 161281 | 267.6    | 4                        | 12.455 | -0.000 | 180783 | 282.1           |
| Aroclor-1260             | 5     | 12.194 | 0.001  | 76105  | 289.6    | NS                       | ---    |        |        | ----            |
| Total CollAve (5 peaks): |       |        |        | 285.5  |          | Total Col2Ave (4 peaks): |        |        |        | 284.0 RPD = 1   |
| Corrected Ave (4 peaks): |       |        |        | 283.6  |          | Corrected Ave (3 peaks): |        |        |        | 279.8 RPD = 1   |
| Aroclor-1262             | 1     | 10.777 | -0.001 | 215850 | 506.9    | 1                        | 11.153 | -0.001 | 104059 | 186.0           |
| Aroclor-1262             | 2     | 12.194 | -0.000 | 76105  | 127.1    | 2                        | 11.605 | 0.001  | 99761  | 211.4           |
| Aroclor-1262             | 3     | 12.271 | 0.001  | 94628  | 147.0    | 3                        | 12.389 | 0.003  | 70545  | 136.8           |
| Aroclor-1262             | 4     | 12.939 | -0.000 | 78852  | 150.3    | 4                        | 12.455 | -0.001 | 180783 | 215.1           |
| Total CollAve (4 peaks): |       |        |        | 232.8  |          | Total Col2Ave (4 peaks): |        |        |        | 187.3 RPD = 22  |
| Corrected Ave (3 peaks): |       |        |        | 141.5  |          | Corrected Ave (3 peaks): |        |        |        | 178.1 RPD = 23  |
| Aroclor-1268             | 1     | 12.194 | -0.001 | 76105  | 50.7     | 1                        | 12.389 | 0.004  | 70545  | 54.0            |
| Aroclor-1268             | 2     | 12.271 | 0.003  | 94628  | 63.5     | 2                        | 12.455 | 0.003  | 180783 | 128.7           |
| Aroclor-1268             | 3     | 12.675 | 0.026  | 38830  | 32.4     | 3                        | 12.844 | 0.001  | 3082   | 2.6             |
| Aroclor-1268             | 4     | 13.440 | 0.003  | 19986  | 5.8      | 4                        | 13.661 | -0.002 | 14882  | 3.9             |
| Total CollAve (4 peaks): |       |        |        | 38.1   |          | Total Col2Ave (4 peaks): |        |        |        | 47.3 RPD = 21   |
| Corrected Ave (3 peaks): |       |        |        | 29.6   |          | Corrected Ave (3 peaks): |        |        |        | 20.1 RPD = 38   |

Total PCB Area Col1 (5.842 - 13.740) = 3657118 Col1 Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 2255286 Col2 Total PCB = 0.5 ppm\*

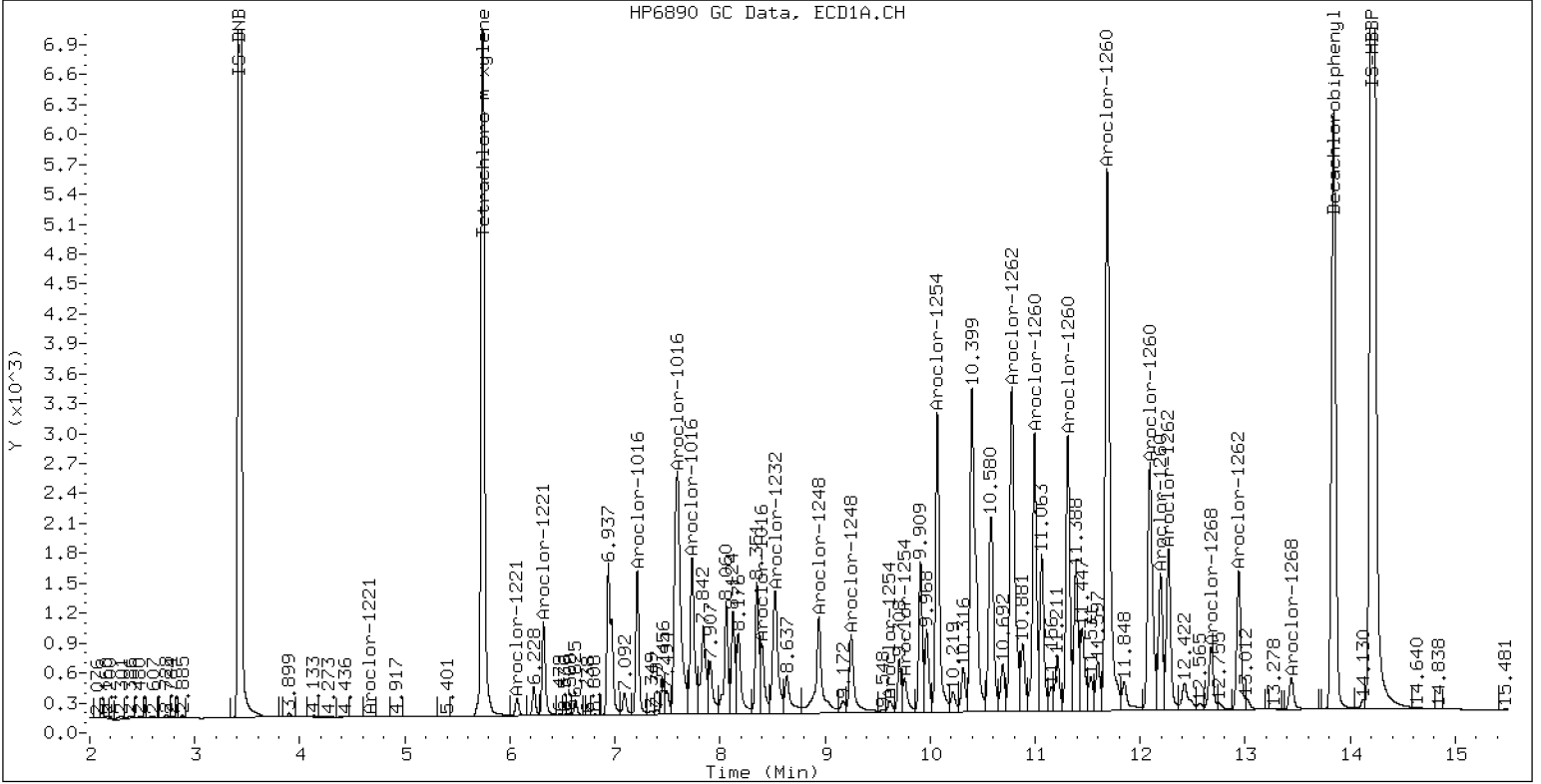
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV

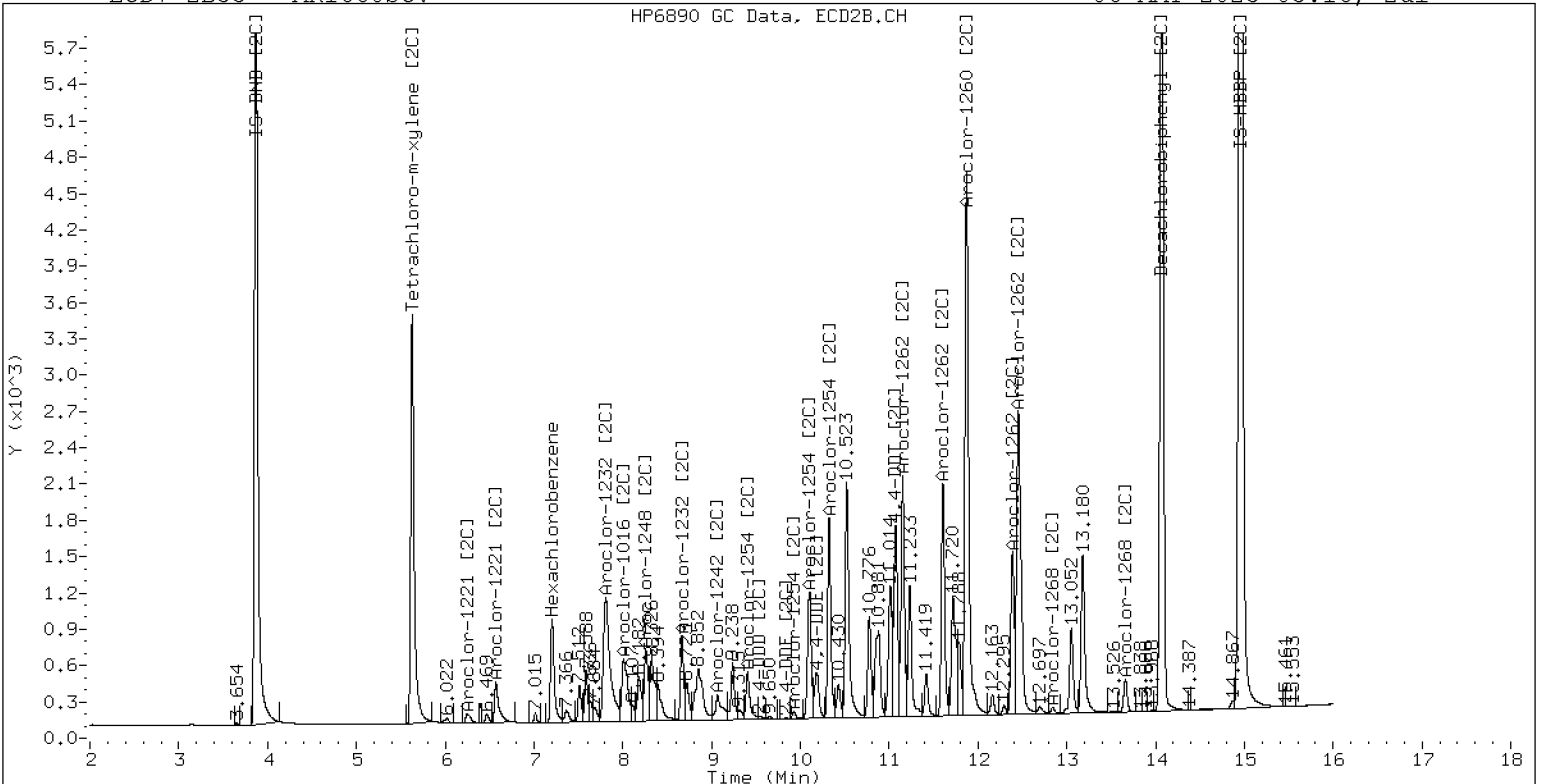
06-MAY-2023 03:16, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV

06-MAY-2023 03:16, 2ul



ZB-35 Manual Integration: NO



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052333ECD7.D  
Data file 2: /230505.b/230505.b/05052333ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1242SCV  
Client ID:  
Injection Date: 06-MAY-2023 03:36  
Report Date: 05/06/2023 12:06  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.744  | 0.002         | 319899   | 5.630  | 0.002          | 167866   | 32.8       | 33.4        | 1.9 | Tetrachloro-m-xylene |
| 13.842 | 0.002         | 398699   | 14.069 | 0.001          | 434332   | 40.9       | 44.0        | 7.3 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 648004      | 7.7  |
| Hexabromobiphenyl  | 876625         | 976327      | 11.4 |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 365379      | 4.6 |
| Hexabromobiphenyl  | 652984         | 695394      | 6.5 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |       |                 |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|-------|-----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area  | Amount          |
| Aroclor-1016             | 1     | 7.213  | 0.001  | 47446  | 189.1    | 1                        | 7.205  | 0.001  | 36469 | 176.3           |
| Aroclor-1016             | 2     | 7.594  | -0.000 | 147684 | 188.2    | 2                        | 7.814  | 0.007  | 77885 | 176.7           |
| Aroclor-1016             | 3     | 7.735  | 0.002  | 67175  | 185.2    | 3                        | 8.012  | 0.006  | 38400 | 197.5           |
| Aroclor-1016             | 4     | 8.398  | 0.000  | 30565  | 204.3    | 4                        | 8.261  | 0.002  | 27551 | 178.4           |
| Total CollAve (4 peaks): |       |        |        | 191.7  |          | Total Col2Ave (4 peaks): |        |        |       | 182.2 RPD = 5   |
| Corrected Ave (3 peaks): |       |        |        | 187.5  |          | Corrected Ave (3 peaks): |        |        |       | 177.1 RPD = 6   |
| Aroclor-1221             | 1     | 4.666  | 0.002  | 870    | 19.1     | 1                        | ---    |        |       | 0.0             |
| Aroclor-1221             | 2     | 6.069  | 0.000  | 7118   | 77.8     | 2                        | 6.257  | 0.011  | 4359  | 78.0            |
| Aroclor-1221             | 3     | 6.322  | 0.001  | 32969  | 151.8    | 3                        | 6.573  | 0.001  | 16609 | 189.0           |
| Total CollAve (3 peaks): |       |        |        | 82.9   |          | Col2Ave: <3 Quant Peaks  |        |        |       |                 |
| Aroclor-1232             | 1     | 4.666  | 0.002  | 870    | 28.7     | 1                        | ---    |        |       | 0.0             |
| Aroclor-1232             | 2     | 6.069  | 0.000  | 7118   | 112.7    | 2                        | 7.205  | -0.000 | 36469 | 449.5           |
| Aroclor-1232             | 3     | 7.594  | -0.001 | 147684 | 490.8    | 3                        | 7.814  | -0.001 | 77885 | 477.9           |
| Aroclor-1232             | 4     | 8.526  | -0.000 | 70601  | 548.1    | 4                        | 8.668  | -0.001 | 25417 | 538.5           |
| Total CollAve (4 peaks): |       |        |        | 295.1  |          | Total Col2Ave (3 peaks): |        |        |       | 488.7 RPD = 49* |
| Corrected Ave (3 peaks): |       |        |        | 210.7  |          | Corrected Ave: < 3 Peaks |        |        |       |                 |
| Aroclor-1242             | 1     | 7.213  | 0.001  | 47446  | 232.4    | 1                        | 7.205  | 0.001  | 36469 | 223.3           |
| Aroclor-1242             | 2     | 7.594  | -0.000 | 147684 | 228.2    | 2                        | 7.814  | 0.002  | 77885 | 224.2           |
| Aroclor-1242             | 3     | 8.398  | 0.000  | 30565  | 244.2    | 3                        | 9.124  | 0.001  | 25864 | 232.2           |
| Aroclor-1242             | 4     | 8.526  | 0.002  | 70601  | 243.8    | 4                        | 9.552  | 0.001  | 32437 | 241.7           |
| Total CollAve (4 peaks): |       |        |        | 237.2  |          | Total Col2Ave (4 peaks): |        |        |       | 230.4 RPD = 3   |
| Corrected Ave (3 peaks): |       |        |        | 234.8  |          | Corrected Ave (3 peaks): |        |        |       | 226.6 RPD = 4   |
| Aroclor-1248             | 1     | 8.398  | -0.001 | 30565  | 184.8    | 1                        | 8.261  | 0.001  | 27551 | 158.5           |
| Aroclor-1248             | 2     | 8.526  | 0.002  | 70601  | 164.3    | 2                        | 8.668  | 0.001  | 25417 | 138.4           |
| Aroclor-1248             | 3     | 8.946  | 0.002  | 172847 | 209.1    | 3                        | 9.124  | 0.004  | 25864 | 120.2           |
| Aroclor-1248             | 4     | 9.243  | -0.001 | 87363  | 207.3    | 4                        | 9.552  | 0.006  | 32437 | 125.7           |
| Total CollAve (4 peaks): |       |        |        | 191.4  |          | Total Col2Ave (4 peaks): |        |        |       | 135.7 RPD = 34  |
| Corrected Ave (3 peaks): |       |        |        | 185.5  |          | Corrected Ave (3 peaks): |        |        |       | 128.1 RPD = 37  |
| Aroclor-1254             | 1     | 9.243  | -0.004 | 87363  | 131.2    | 1                        | 9.406  | 0.002  | 13247 | 47.7            |
| Aroclor-1254             | 2     | 9.326  | 0.001  | 28949  | 96.7     | 2                        | 9.552  | 0.053  | 32437 | 196.7           |
| Aroclor-1254             | 3     | 9.622  | 0.004  | 20780  | 48.3     | 3                        | 9.927  | 0.003  | 10002 | 44.5            |
| Aroclor-1254             | 4     | 9.762  | 0.006  | 35470  | 42.1     | 4                        | 10.082 | 0.005  | 19933 | 40.6            |
| Aroclor-1254             | 5     | 10.140 | 0.015  | 28075  | 55.2     | 5                        | 10.341 | 0.013  | 19432 | 39.9            |
| Total CollAve (5 peaks): |       |        |        | 74.7   |          | Total Col2Ave (5 peaks): |        |        |       | 73.9 RPD = 1    |
| Corrected Ave (4 peaks): |       |        |        | 60.6   |          | Corrected Ave (4 peaks): |        |        |       | 43.2 RPD = 34   |
| Aroclor-1260             | 1     | 10.998 | 0.005  | 3609   | 7.0      | 1                        | 11.618 | 0.012  | 2137  | 5.8             |
| Aroclor-1260             | 2     | 11.317 | 0.007  | 3837   | 7.5      | 2                        | 11.879 | 0.007  | 1437  | 1.5             |
| Aroclor-1260             | 3     | 11.765 | 0.080  | 33905  | 26.6     | 3                        | 12.382 | -0.006 | 12460 | 52.1            |
| Aroclor-1260             | 4     | 12.097 | 0.007  | 9099   | 14.6     | 4                        | ---    |        |       | 0.0             |
| Aroclor-1260             | 5     | 12.272 | 0.079  | 2060   | 7.6      | NS                       | ---    |        |       | ---             |
| Total CollAve (5 peaks): |       |        |        | 12.6   |          | Total Col2Ave (3 peaks): |        |        |       | 19.8 RPD = 44*  |
| Corrected Ave (4 peaks): |       |        |        | 9.2    |          | Corrected Ave: < 3 Peaks |        |        |       |                 |
| Aroclor-1262             | 1     | 10.787 | 0.009  | 24040  | 54.4     | 1                        | 11.078 | -0.075 | 7864  | 14.0            |
| Aroclor-1262             | 2     | 12.272 | 0.077  | 2060   | 3.3      | 2                        | 11.618 | 0.013  | 2137  | 4.5             |
| Aroclor-1262             | 3     | ---    |        |        | 0.0      | 3                        | 12.382 | -0.004 | 12460 | 24.0            |
| Aroclor-1262             | 4     | 12.937 | -0.002 | 16041  | 29.5     | 4                        | ---    |        |       | 0.0             |
| Total CollAve (3 peaks): |       |        |        | 29.1   |          | Total Col2Ave (3 peaks): |        |        |       | 14.1 RPD = 69*  |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |       |                 |
| Aroclor-1268             | 1     | 12.272 | 0.076  | 2060   | 1.3      | 1                        | 12.382 | -0.003 | 12460 | 9.5             |
| Aroclor-1268             | 2     | ---    |        |        | 0.0      | 2                        | ---    |        |       | 0.0             |
| Aroclor-1268             | 3     | 12.649 | 0.001  | 4324   | 3.5      | 3                        | 12.845 | 0.002  | 951   | 0.8             |
| Aroclor-1268             | 4     | 13.442 | 0.005  | 15801  | 4.4      | 4                        | 13.628 | -0.035 | 6512  | 1.7             |
| Total CollAve (3 peaks): |       |        |        | 3.1    |          | Total Col2Ave (3 peaks): |        |        |       | 4.0 RPD = 25    |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |       |                 |

Total PCB Area Col1 (5.842 - 13.740) = 1489022 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 667658 Col2 Total PCB = 0.2 ppm\*

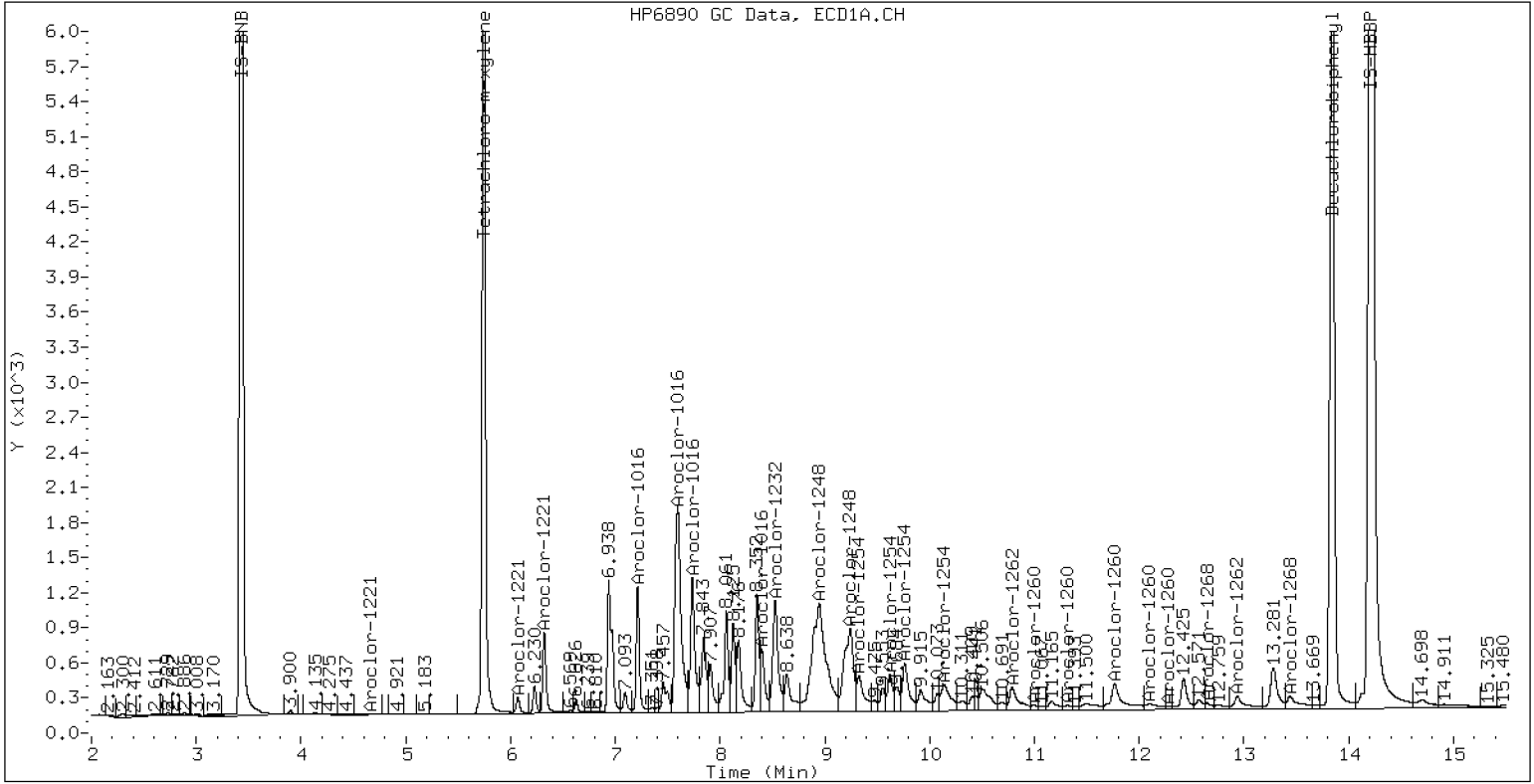
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV

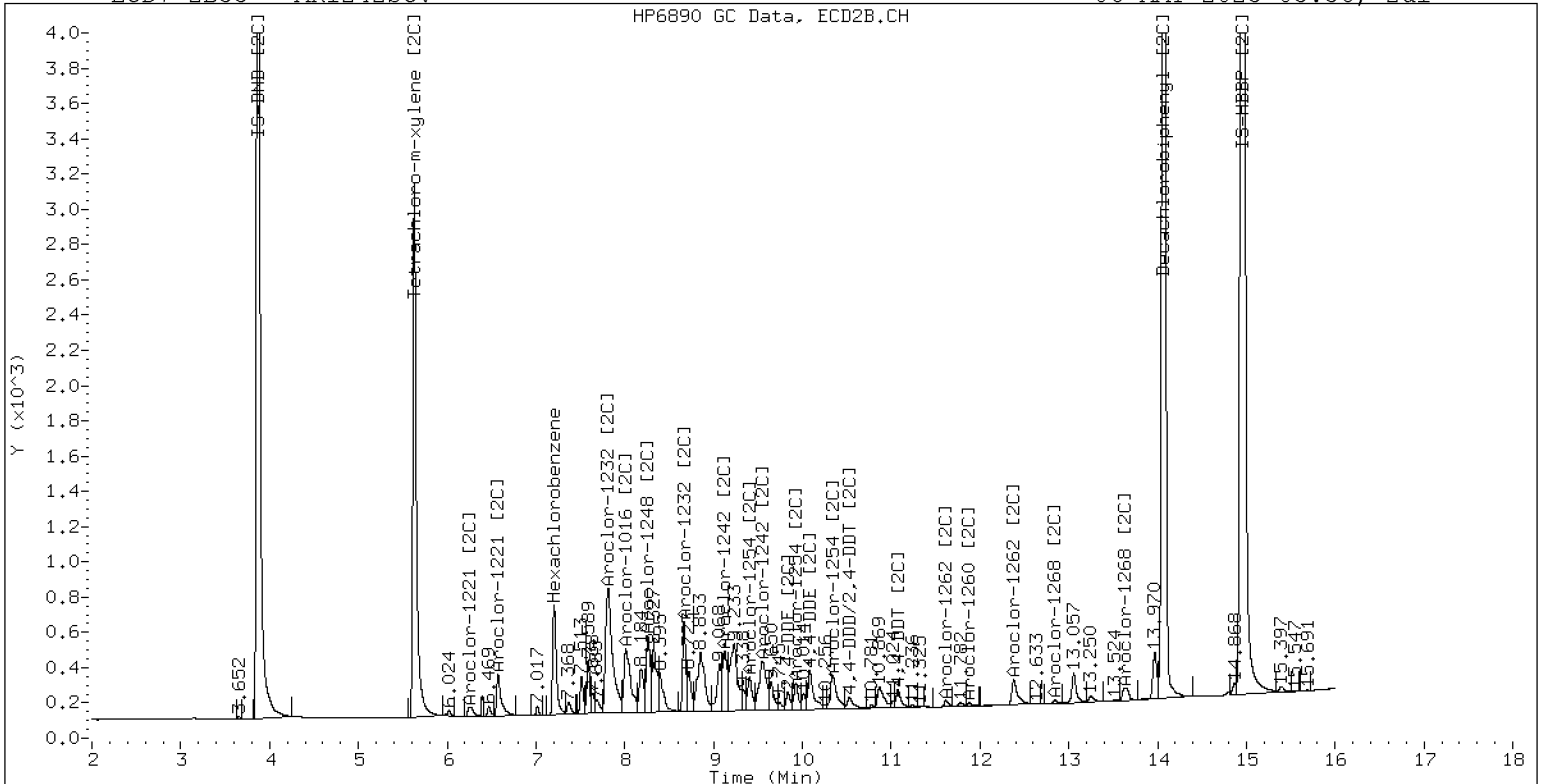
06-MAY-2023 03:36, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV

06-MAY-2023 03:36, 2ul

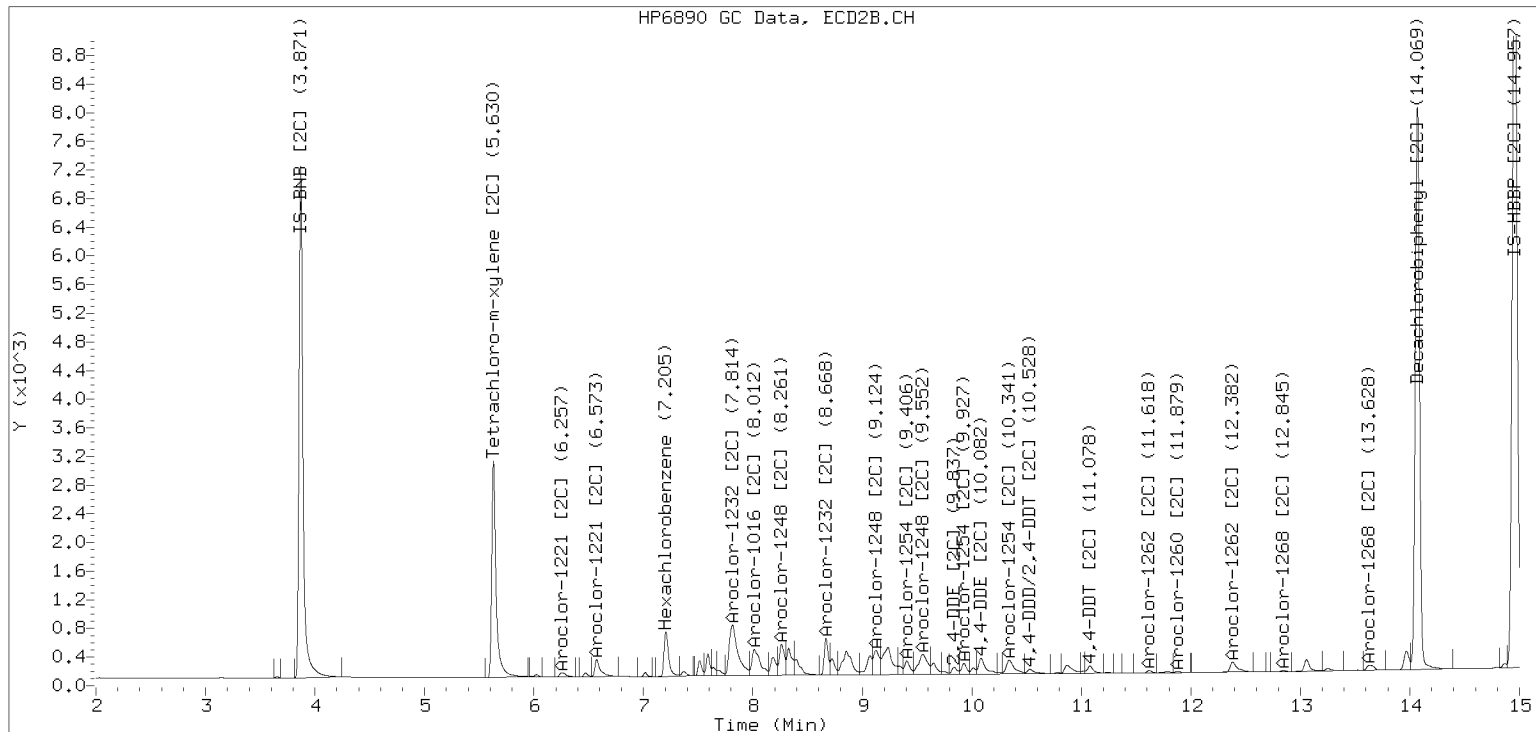


ZB-35 Manual Integration: NO

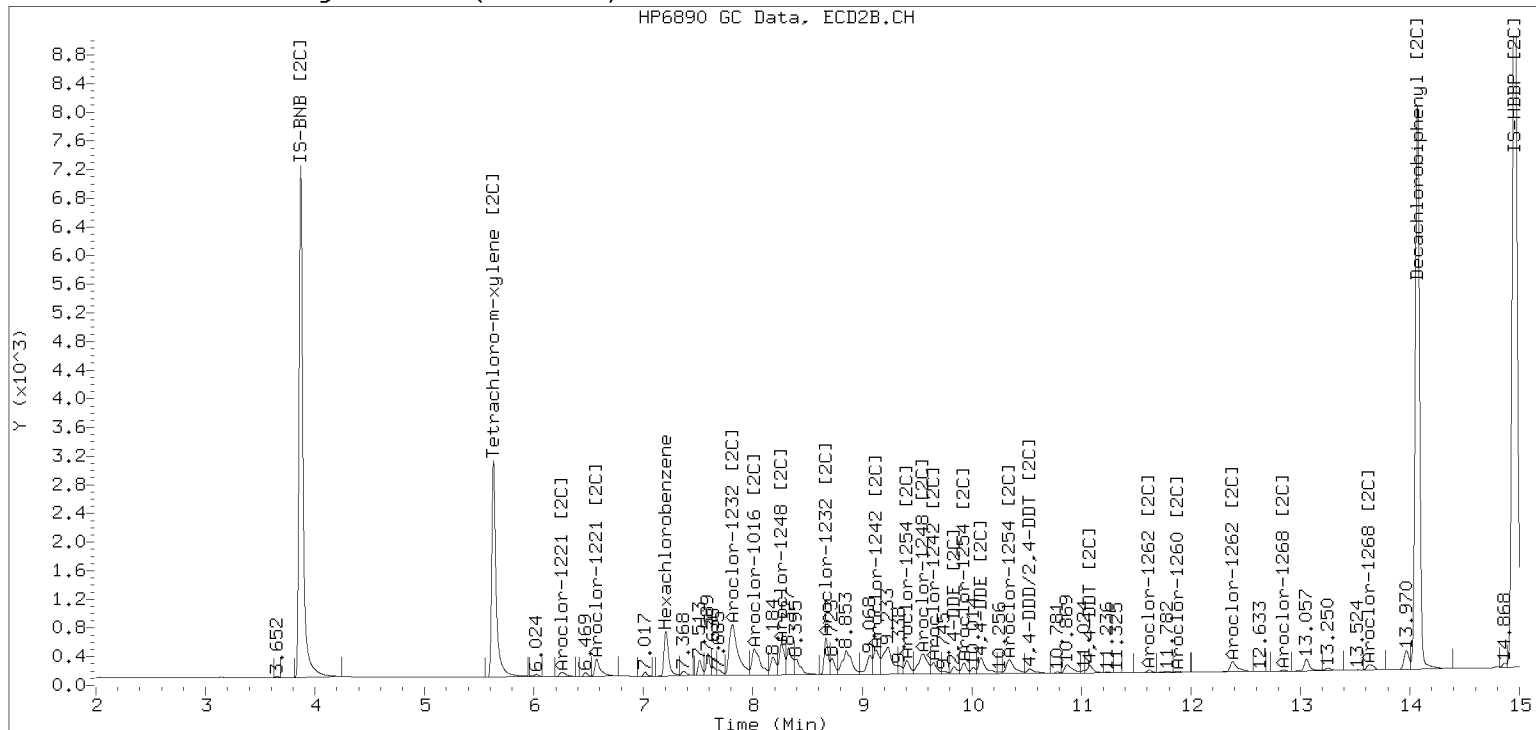
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230505.b/230505.b/05052333ECD7.D Injection Date: 06-MAY-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052334ECD7.D  
Data file 2: /230505.b/230505.b/05052334ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1248SCV  
Client ID:  
Injection Date: 06-MAY-2023 03:57  
Report Date: 05/06/2023 12:07  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |       | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|-------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift | Response | on col |      |               | on col               |
| 5.741   | -0.001 | 356328   | 5.629  | 0.000 | 186552   | 36.8   | 37.7 | 2.5           | Tetrachloro-m-xylene |
| 13.842  | 0.001  | 339452   | 14.070 | 0.002 | 373861   | 35.7   | 38.0 | 6.2           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 643038      | 6.9 |
| Hexabromobiphenyl  | 876625         | 952051      | 8.6 |
| Column 2           |                |             |     |
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 359604      | 3.0 |
| Hexabromobiphenyl  | 652984         | 692982      | 6.1 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023

<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |       |                |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|-------|----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area  | Amount         |
| Aroclor-1016             | 1     | 7.212  | 0.000  | 19871  | 79.8     | 1                        | 7.203  | -0.001 | 18843 | 92.6           |
| Aroclor-1016             | 2     | 7.589  | -0.006 | 95111  | 122.2    | 2                        | 7.812  | 0.005  | 52352 | 120.7          |
| Aroclor-1016             | 3     | 7.736  | 0.003  | 37565  | 104.4    | 3                        | 8.012  | 0.006  | 8263  | 43.2           |
| Aroclor-1016             | 4     | 8.399  | 0.002  | 41542  | 279.7    | 4                        | 8.260  | 0.001  | 42833 | 281.8          |
| Total CollAve (4 peaks): |       |        |        | 146.5  |          | Total Col2Ave (4 peaks): |        |        |       | 134.6 RPD = 9  |
| Corrected Ave (3 peaks): |       |        |        | 102.1  |          | Corrected Ave (3 peaks): |        |        |       | 85.5 RPD = 18  |
| Aroclor-1221             | 1     | ---    |        |        | 0.0      | 1                        | ---    |        |       | 0.0            |
| Aroclor-1221             | 2     | 6.066  | -0.003 | 351    | 3.9      | 2                        | 6.275  | 0.029  | 1573  | 28.6           |
| Aroclor-1221             | 3     | 6.320  | -0.001 | 3509   | 16.3     | 3                        | 6.576  | 0.004  | 967   | 11.2           |
| CollAve: <3 Quant Peaks  |       |        |        |        |          | Col2Ave: <3 Quant Peaks  |        |        |       |                |
| Aroclor-1232             | 1     | ---    |        |        | 0.0      | 1                        | ---    |        |       | 0.0            |
| Aroclor-1232             | 2     | 6.066  | -0.003 | 351    | 5.6      | 2                        | 7.203  | -0.001 | 18843 | 236.0          |
| Aroclor-1232             | 3     | 7.589  | -0.006 | 95111  | 318.5    | 3                        | 7.812  | -0.002 | 52352 | 326.4          |
| Aroclor-1232             | 4     | 8.524  | -0.002 | 105782 | 827.6    | 4                        | 8.667  | -0.002 | 44962 | 968.0          |
| Total CollAve (3 peaks): |       |        |        | 383.9  |          | Total Col2Ave (3 peaks): |        |        |       | 510.1 RPD = 28 |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |       |                |
| Aroclor-1242             | 1     | 7.212  | 0.000  | 19871  | 98.1     | 1                        | 7.203  | -0.000 | 18843 | 117.2          |
| Aroclor-1242             | 2     | 7.589  | -0.006 | 95111  | 148.1    | 2                        | 7.812  | -0.000 | 52352 | 153.1          |
| Aroclor-1242             | 3     | 8.399  | 0.001  | 41542  | 334.5    | 3                        | 9.120  | -0.003 | 52681 | 480.6          |
| Aroclor-1242             | 4     | 8.524  | -0.000 | 105782 | 368.1    | 4                        | 9.548  | -0.002 | 63343 | 479.5          |
| Total CollAve (4 peaks): |       |        |        | 237.2  |          | Total Col2Ave (4 peaks): |        |        |       | 307.6 RPD = 26 |
| Corrected Ave (3 peaks): |       |        |        | 193.6  |          | Corrected Ave (3 peaks): |        |        |       | 250.0 RPD = 25 |
| Aroclor-1248             | 1     | 8.399  | 0.001  | 41542  | 253.1    | 1                        | 8.260  | -0.001 | 42833 | 250.4          |
| Aroclor-1248             | 2     | 8.524  | -0.000 | 105782 | 248.0    | 2                        | 8.667  | 0.000  | 44962 | 248.8          |
| Aroclor-1248             | 3     | 8.944  | -0.000 | 206928 | 252.3    | 3                        | 9.120  | -0.000 | 52681 | 248.7          |
| Aroclor-1248             | 4     | 9.242  | -0.001 | 105227 | 251.7    | 4                        | 9.548  | 0.002  | 63343 | 249.4          |
| Total CollAve (4 peaks): |       |        |        | 251.3  |          | Total Col2Ave (4 peaks): |        |        |       | 249.3 RPD = 1  |
| Corrected Ave (3 peaks): |       |        |        | 250.6  |          | Corrected Ave (3 peaks): |        |        |       | 249.0 RPD = 1  |
| Aroclor-1254             | 1     | 9.242  | -0.004 | 105227 | 159.2    | 1                        | 9.404  | 0.000  | 25835 | 94.6           |
| Aroclor-1254             | 2     | 9.324  | -0.001 | 51326  | 172.8    | 2                        | 9.548  | 0.049  | 63343 | 390.3          |
| Aroclor-1254             | 3     | 9.619  | 0.001  | 41394  | 97.0     | 3                        | 9.925  | 0.001  | 22609 | 102.1          |
| Aroclor-1254             | 4     | 9.759  | 0.003  | 72223  | 86.4     | 4                        | 10.079 | 0.001  | 43816 | 90.7           |
| Aroclor-1254             | 5     | 10.135 | 0.010  | 49936  | 98.9     | 5                        | 10.345 | 0.016  | 42513 | 88.7           |
| Total CollAve (5 peaks): |       |        |        | 122.9  |          | Total Col2Ave (5 peaks): |        |        |       | 153.3 RPD = 22 |
| Corrected Ave (4 peaks): |       |        |        | 110.4  |          | Corrected Ave (4 peaks): |        |        |       | 94.0 RPD = 16  |
| Aroclor-1260             | 1     | 10.998 | 0.005  | 1863   | 3.7      | 1                        | 11.617 | 0.011  | 2599  | 7.1            |
| Aroclor-1260             | 2     | 11.314 | 0.004  | 1152   | 2.3      | 2                        | 11.877 | 0.005  | 1951  | 2.0            |
| Aroclor-1260             | 3     | 11.695 | 0.009  | 1829   | 1.5      | 3                        | 12.389 | 0.001  | 857   | 3.6            |
| Aroclor-1260             | 4     | 12.097 | 0.007  | 1266   | 2.1      | 4                        | 12.458 | 0.003  | 1302  | 2.0            |
| Aroclor-1260             | 5     | 12.195 | 0.002  | 464    | 1.7      | NS                       | ---    |        |       | ----           |
| Total CollAve (5 peaks): |       |        |        | 2.3    |          | Total Col2Ave (4 peaks): |        |        |       | 3.7 RPD = 48*  |
| Corrected Ave (4 peaks): |       |        |        | 1.9    |          | Corrected Ave (3 peaks): |        |        |       | 2.5 RPD = 29   |
| Aroclor-1262             | 1     | 10.784 | 0.005  | 15405  | 35.8     | 1                        | 11.077 | -0.077 | 9003  | 16.0           |
| Aroclor-1262             | 2     | 12.195 | 0.000  | 464    | 0.8      | 2                        | 11.617 | 0.012  | 2599  | 5.5            |
| Aroclor-1262             | 3     | 12.271 | 0.002  | 489    | 0.8      | 3                        | 12.389 | 0.003  | 857   | 1.7            |
| Aroclor-1262             | 4     | 12.940 | 0.001  | 1638   | 3.1      | 4                        | 12.458 | 0.002  | 1302  | 1.5            |
| Total CollAve (4 peaks): |       |        |        | 10.1   |          | Total Col2Ave (4 peaks): |        |        |       | 6.2 RPD = 48*  |
| Corrected Ave (3 peaks): |       |        |        | 1.5    |          | Corrected Ave (3 peaks): |        |        |       | 2.9 RPD = 61*  |
| Aroclor-1268             | 1     | 12.195 | -0.001 | 464    | 0.3      | 1                        | 12.389 | 0.004  | 857   | 0.7            |
| Aroclor-1268             | 2     | 12.271 | 0.003  | 489    | 0.3      | 2                        | 12.458 | 0.006  | 1302  | 0.9            |
| Aroclor-1268             | 3     | 12.649 | 0.001  | 1831   | 1.5      | 3                        | 12.845 | 0.002  | 676   | 0.6            |
| Aroclor-1268             | 4     | 13.443 | 0.006  | 5387   | 1.6      | 4                        | 13.661 | -0.003 | 2707  | 0.7            |
| Total CollAve (4 peaks): |       |        |        | 0.9    |          | Total Col2Ave (4 peaks): |        |        |       | 0.7 RPD = 26   |
| Corrected Ave (3 peaks): |       |        |        | 0.7    |          | Corrected Ave (3 peaks): |        |        |       | 0.6 RPD = 11   |

Total PCB Area Col1 (5.842 - 13.740) = 1634238 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 876760 Col2 Total PCB = 0.2 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

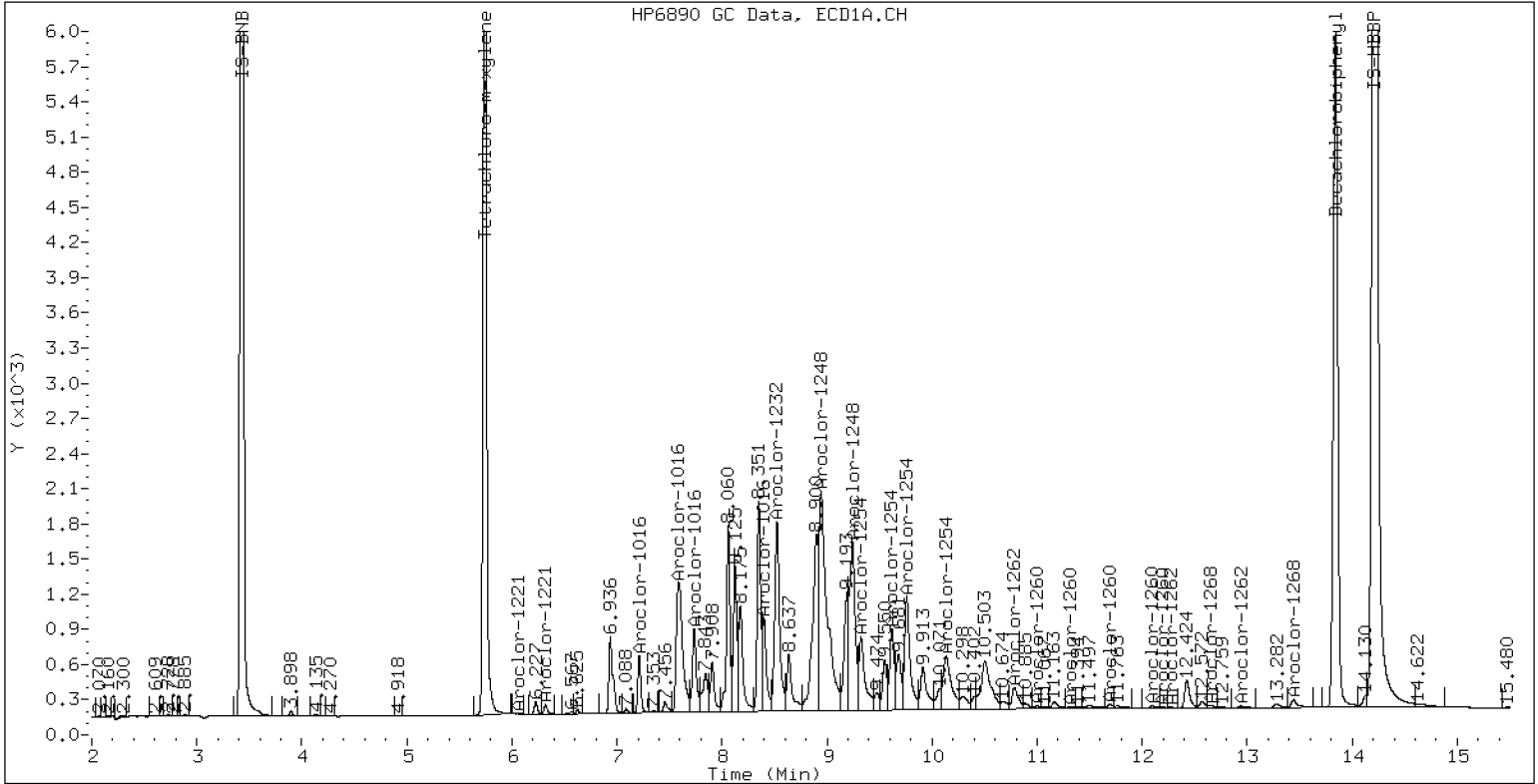
PCB-Form 10 Mod.



# PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV

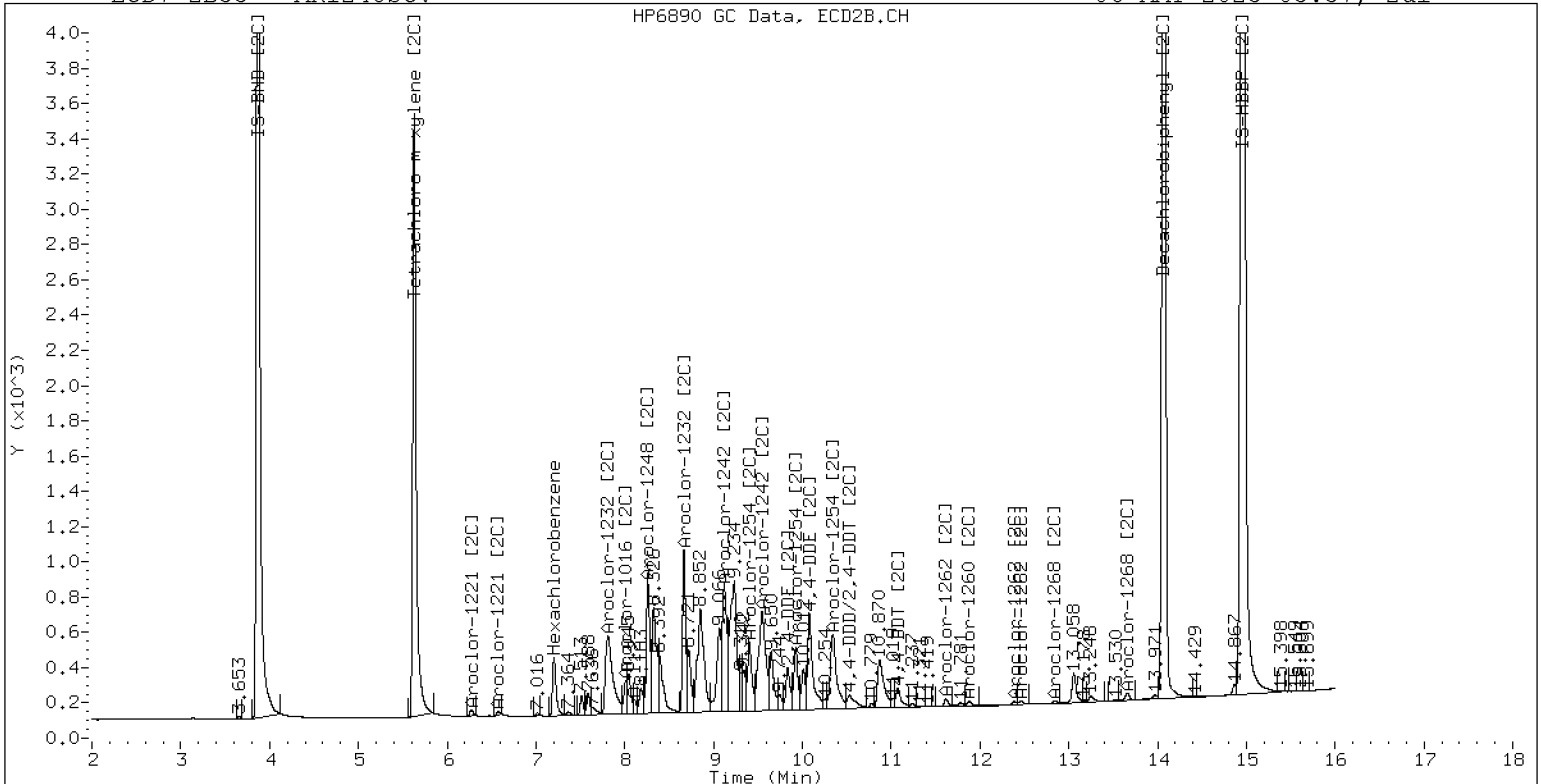
06-MAY-2023 03:57, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV

06-MAY-2023 03:57, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052335ECD7.D  
Data file 2: /230505.b/230505.b/05052335ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1254SCV  
Client ID:  
Injection Date: 06-MAY-2023 04:18  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.743  | 0.001         | 368022   | 5.631  | 0.002          | 192033   | 37.6       | 38.3        | 2.0 | Tetrachloro-m-xylene |
| 13.843 | 0.002         | 352066   | 14.070 | 0.002          | 385384   | 36.0       | 38.5        | 6.8 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 650234      | 8.1  |
| Hexabromobiphenyl  | 876625         | 980276      | 11.8 |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 364142      | 4.3 |
| Hexabromobiphenyl  | 652984         | 705291      | 8.0 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        |        | ZB35 Col                                 |        |        |        |        |
|--------------------------|-------|--------|--------|--------|--------|--|--------|--------|--------|--------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount | Peak#                                    | RT     | Shift  | Area   | Amount |
| Aroclor-1016             | 1     | 7.214  | 0.002  | 635    | 2.5    | 1  | ---    |        |        | 0.0    |
| Aroclor-1016             | 2     | 7.590  | -0.004 | 2512   | 3.2    | 2  | ---    |        |        | 0.0    |
| Aroclor-1016             | 3     | 7.738  | 0.005  | 1594   | 4.4    | 3  | ---    |        |        | 0.0    |
| Aroclor-1016             | 4     | 8.351  | -0.047 | 31774  | 211.6  | 4  | ---    |        |        | 0.0    |
| Total CollAve (4 peaks): |       |        |        | 55.4   |        | Col2Ave: <3 Quant Peaks                  |        |        |        |        |
| Aroclor-1221             | 1     | ---    |        |        | 0.0    | 1  | ---    |        |        | 0.0    |
| Aroclor-1221             | 2     | 6.052  | -0.018 | 242    | 2.6    | 2  | ---    |        |        | 0.0    |
| Aroclor-1221             | 3     | 6.322  | 0.001  | 427    | 2.0    | 3  | ---    |        |        | 0.0    |
| CollAve: <3 Quant Peaks  |       |        |        |        |        | Col2Ave: <3 Quant Peaks                  |        |        |        |        |
| Aroclor-1232             | 1     | ---    |        |        | 0.0    | 1  | ---    |        |        | 0.0    |
| Aroclor-1232             | 2     | 6.052  | -0.018 | 242    | 3.8    | 2  | ---    |        |        | 0.0    |
| Aroclor-1232             | 3     | 7.590  | -0.005 | 2512   | 8.3    | 3  | ---    |        |        | 0.0    |
| Aroclor-1232             | 4     | 8.528  | 0.001  | 13950  | 107.9  | 4  | ---    |        |        | 0.0    |
| Total CollAve (3 peaks): |       |        |        | 40.0   |        | Col2Ave: <3 Quant Peaks                  |        |        |        |        |
| Aroclor-1242             | 1     | 7.214  | 0.002  | 635    | 3.1    | 1  | ---    |        |        | 0.0    |
| Aroclor-1242             | 2     | 7.590  | -0.005 | 2512   | 3.9    | 2  | ---    |        |        | 0.0    |
| Aroclor-1242             | 3     | 8.351  | -0.047 | 31774  | 253.0  | 3  | 9.125  | 0.002  | 23963  | 215.9  |
| Aroclor-1242             | 4     | 8.528  | 0.004  | 13950  | 48.0   | 4  | 9.649  | 0.099  | 23982  | 179.3  |
| Total CollAve (4 peaks): |       |        |        | 77.0   |        | Col2Ave: <3 Quant Peaks                  |        |        |        |        |
| Aroclor-1248             | 1     | 8.351  | -0.048 | 31774  | 191.4  | 1  | 8.260  | -0.000 | 23490  | 135.6  |
| Aroclor-1248             | 2     | 8.528  | 0.004  | 13950  | 32.3   | 2  | 8.669  | 0.002  | 16693  | 91.2   |
| Aroclor-1248             | 3     | 8.941  | -0.003 | 154338 | 186.1  | 3  | 9.125  | 0.005  | 23963  | 111.7  |
| Aroclor-1248             | 4     | 9.246  | 0.003  | 158369 | 374.6  | 4  | 9.499  | -0.047 | 38716  | 150.5  |
| Total CollAve (4 peaks): |       |        |        | 196.1  |        | Total Col2Ave (4 peaks): 122.3 RPD = 46* |        |        |        |        |
| Corrected Ave (3 peaks): |       |        |        | 136.6  |        | Corrected Ave (3 peaks): 112.8 RPD = 19  |        |        |        |        |
| Aroclor-1254             | 1     | 9.246  | -0.001 | 158369 | 237.0  | 1  | 9.404  | 0.000  | 67493  | 244.0  |
| Aroclor-1254             | 2     | 9.325  | -0.000 | 72386  | 241.1  | 2  | 9.499  | -0.000 | 38716  | 235.6  |
| Aroclor-1254             | 3     | 9.617  | -0.001 | 103602 | 240.1  | 3  | 9.925  | 0.001  | 53972  | 240.7  |
| Aroclor-1254             | 4     | 9.756  | 0.000  | 201259 | 238.2  | 4  | 10.079 | 0.001  | 116950 | 239.0  |
| Aroclor-1254             | 5     | 10.127 | 0.001  | 122207 | 239.5  | 5  | 10.327 | -0.001 | 118439 | 243.9  |
| Total CollAve (5 peaks): |       |        |        | 239.2  |        | Total Col2Ave (5 peaks): 240.6 RPD = 1   |        |        |        |        |
| Corrected Ave (4 peaks): |       |        |        | 238.7  |        | Corrected Ave (4 peaks): 239.8 RPD = 0   |        |        |        |        |
| Aroclor-1260             | 1     | 10.994 | 0.001  | 13538  | 26.1   | 1  | 11.615 | 0.009  | 33465  | 89.3   |
| Aroclor-1260             | 2     | 11.313 | 0.003  | 13900  | 27.2   | 2  | 11.876 | 0.004  | 25534  | 26.1   |
| Aroclor-1260             | 3     | 11.689 | 0.004  | 32548  | 25.4   | 3  | 12.404 | 0.016  | 1811   | 7.5    |
| Aroclor-1260             | 4     | 12.093 | 0.003  | 25285  | 40.3   | 4  | 12.458 | 0.002  | 14842  | 22.7   |
| Aroclor-1260             | 5     | 12.273 | 0.079  | 2534   | 9.3    | NS                                       | ---    |        |        | ---    |
| Total CollAve (5 peaks): |       |        |        | 25.6   |        | Total Col2Ave (4 peaks): 36.4 RPD = 35   |        |        |        |        |
| Corrected Ave (4 peaks): |       |        |        | 22.0   |        | Corrected Ave (3 peaks): 18.7 RPD = 16   |        |        |        |        |
| Aroclor-1262             | 1     | 10.779 | 0.000  | 210018 | 473.6  | 1  | 11.073 | -0.081 | 114323 | 200.0  |
| Aroclor-1262             | 2     | 12.273 | 0.078  | 2534   | 4.1    | 2  | 11.615 | 0.010  | 33465  | 69.4   |
| Aroclor-1262             | 3     | ---    |        |        | 0.0    | 3  | 12.404 | 0.018  | 1811   | 3.4    |
| Aroclor-1262             | 4     | 12.939 | 0.001  | 1830   | 3.3    | 4  | 12.458 | 0.002  | 14842  | 17.3   |
| Total CollAve (3 peaks): |       |        |        | 160.3  |        | Total Col2Ave (4 peaks): 72.6 RPD = 75*  |        |        |        |        |
| Corrected Ave: < 3 Peaks |       |        |        |        |        | Corrected Ave (3 peaks): 30.1            |        |        |        |        |
| Aroclor-1268             | 1     | 12.273 | 0.077  | 2534   | 1.6    | 1  | 12.404 | 0.019  | 1811   | 1.4    |
| Aroclor-1268             | 2     | ---    |        |        | 0.0    | 2  | 12.458 | 0.005  | 14842  | 10.3   |
| Aroclor-1268             | 3     | 12.654 | 0.006  | 2669   | 2.1    | 3  | 12.847 | 0.004  | 835    | 0.7    |
| Aroclor-1268             | 4     | 13.442 | 0.004  | 6266   | 1.8    | 4  | 13.662 | -0.001 | 2350   | 0.6    |
| Total CollAve (3 peaks): |       |        |        | 1.8    |        | Total Col2Ave (4 peaks): 3.2 RPD = 55*   |        |        |        |        |
| Corrected Ave: < 3 Peaks |       |        |        |        |        | Corrected Ave (3 peaks): 0.9             |        |        |        |        |

Total PCB Area Col1 (5.842 - 13.740) = 2123119 Col1 Total PCB = 0.3 ppm\*  
Total PCB Area Col2 (5.728 - 13.968) = 1146487 Col2 Total PCB = 0.3 ppm\*

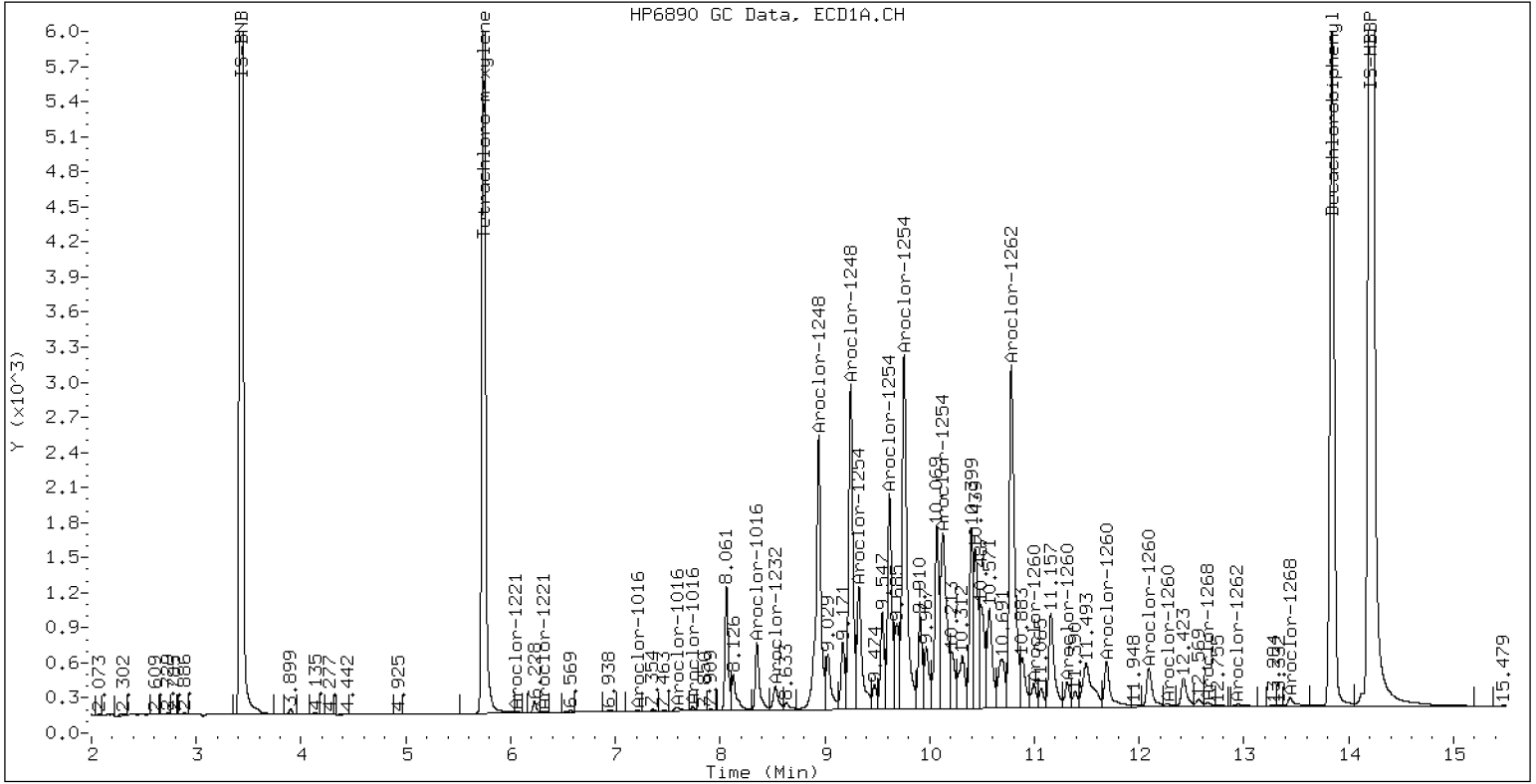
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV

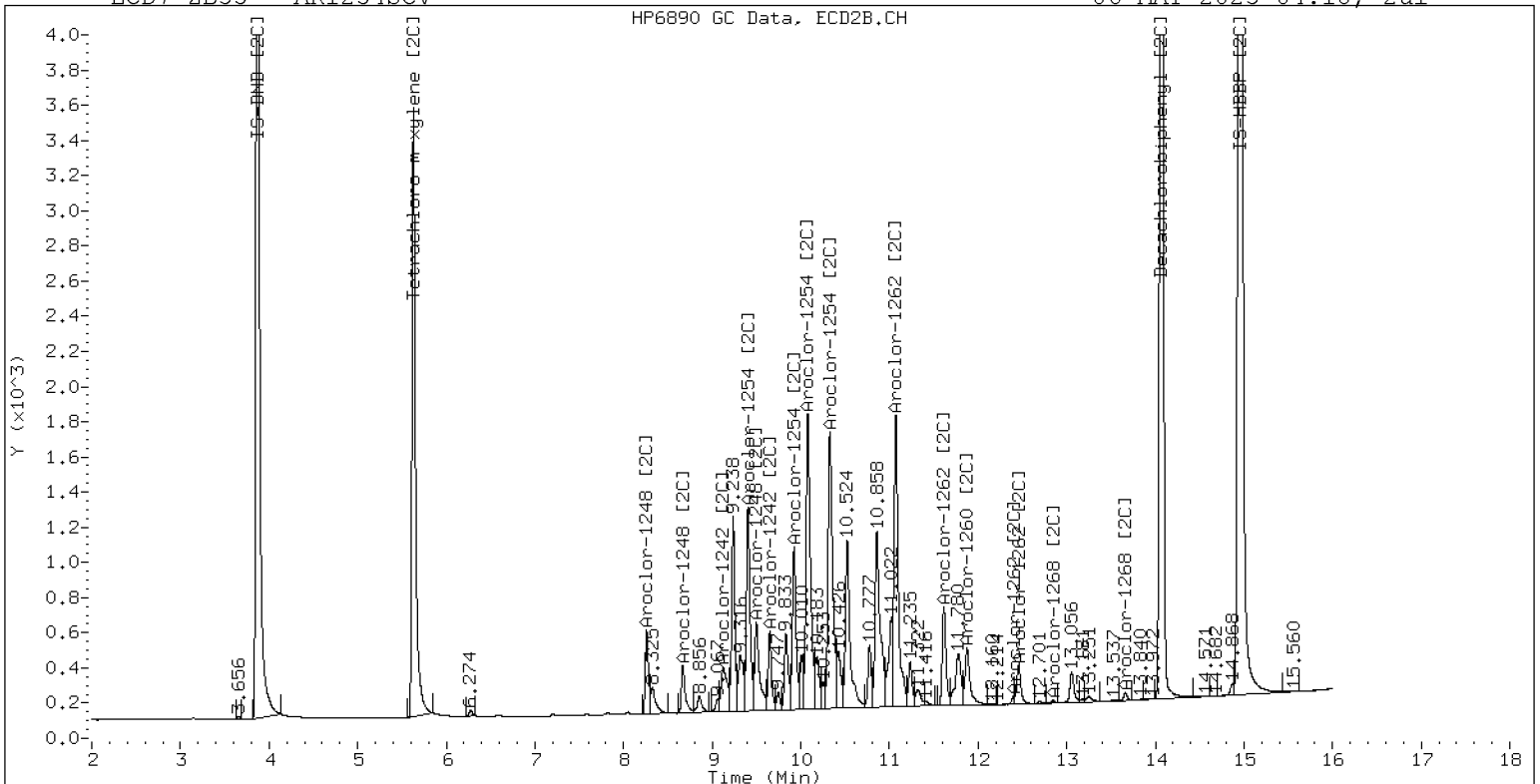
06-MAY-2023 04:18, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV

06-MAY-2023 04:18, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052336ECD7.D  
Data file 2: /230505.b/230505.b/05052336ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR2162SCV  
Client ID:  
Injection Date: 06-MAY-2023 04:39  
Report Date: 05/06/2023 11:31  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.742  | 0.000         | 358254   | 5.628  | -0.000         | 183759   | 37.8       | 39.1        | 3.3 | Tetrachloro-m-xylene |
| 13.842 | 0.002         | 344347   | 14.070 | 0.002          | 373300   | 37.1       | 38.8        | 4.5 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 629547      | 4.7 |
| Hexabromobiphenyl  | 876625         | 929713      | 6.1 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 349289         | 341980      | -2.1 |
| Hexabromobiphenyl  | 652984         | 678097      | 3.8  |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col                 |       |        |        |        |            |  |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|------------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                   | Peak# | RT     | Shift  | Area   | Amount     |  |
| Aroclor-1016             | 1     | 7.213  | 0.000  | 6601   | 27.1                     | 1     | 7.207  | 0.003  | 3935   | 20.3       |  |
| Aroclor-1016             | 2     | 7.595  | 0.000  | 13419  | 17.6                     | 2     | 7.821  | 0.013  | 6146   | 14.9       |  |
| Aroclor-1016             | 3     | 7.735  | 0.003  | 7114   | 20.2                     | 3     | 8.027  | 0.021  | 3201   | 17.6       |  |
| Aroclor-1016             | 4     | 8.353  | -0.045 | 3916   | 26.9                     | 4     | 8.262  | 0.003  | 2131   | 14.7       |  |
| Total CollAve (4 peaks): |       |        |        | 23.0   | Total Col2Ave (4 peaks): |       |        |        | 16.9   | RPD = 30   |  |
| Corrected Ave (3 peaks): |       |        |        | 21.6   | Corrected Ave (3 peaks): |       |        |        | 15.7   | RPD = 31   |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1221             | 1     | 4.663  | -0.001 | 13184  | 297.8                    | 1     | 4.893  | -0.001 | 7253   | 287.5      |  |
| Aroclor-1221             | 2     | 6.070  | 0.000  | 25527  | 287.4                    | 2     | 6.244  | -0.001 | 14853  | 284.1      |  |
| Aroclor-1221             | 3     | 6.321  | 0.000  | 59985  | 284.3                    | 3     | 6.571  | -0.001 | 24083  | 292.9      |  |
| Total CollAve (3 peaks): |       |        |        | 289.8  | Total Col2Ave (3 peaks): |       |        |        | 288.2  | RPD = 1    |  |
| Corrected Ave: < 3 Peaks |       |        |        |        | Corrected Ave: < 3 Peaks |       |        |        |        |            |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1232             | 1     | 4.663  | -0.001 | 13184  | 447.0                    | 1     | 4.893  | -0.001 | 7253   | 546.9      |  |
| Aroclor-1232             | 2     | 6.070  | 0.000  | 25527  | 416.0                    | 2     | 7.207  | 0.002  | 3935   | 51.8       |  |
| Aroclor-1232             | 3     | 7.595  | -0.000 | 13419  | 45.9                     | 3     | 7.821  | 0.006  | 6146   | 40.3       |  |
| Aroclor-1232             | 4     | 8.528  | 0.001  | 2679   | 21.4                     | 4     | 8.671  | 0.002  | 1120   | 25.4       |  |
| Total CollAve (4 peaks): |       |        |        | 232.6  | Total Col2Ave (4 peaks): |       |        |        | 166.1  | RPD = 33   |  |
| Corrected Ave (3 peaks): |       |        |        | 161.1  | Corrected Ave (3 peaks): |       |        |        | 39.2   | RPD = 122* |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1242             | 1     | 7.213  | 0.001  | 6601   | 33.3                     | 1     | 7.207  | 0.004  | 3935   | 25.7       |  |
| Aroclor-1242             | 2     | 7.595  | -0.000 | 13419  | 21.3                     | 2     | 7.821  | 0.008  | 6146   | 18.9       |  |
| Aroclor-1242             | 3     | 8.353  | -0.045 | 3916   | 32.2                     | 3     | 9.133  | 0.010  | 881    | 8.5        |  |
| Aroclor-1242             | 4     | 8.528  | 0.003  | 2679   | 9.5                      | 4     | 9.651  | 0.101  | 516    | 4.1        |  |
| Total CollAve (4 peaks): |       |        |        | 24.1   | Total Col2Ave (4 peaks): |       |        |        | 14.3   | RPD = 51*  |  |
| Corrected Ave (3 peaks): |       |        |        | 21.0   | Corrected Ave (3 peaks): |       |        |        | 10.5   | RPD = 67*  |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1248             | 1     | 8.353  | -0.046 | 3916   | 24.4                     | 1     | 8.262  | 0.002  | 2131   | 13.1       |  |
| Aroclor-1248             | 2     | 8.528  | 0.003  | 2679   | 6.4                      | 2     | 8.671  | 0.004  | 1120   | 6.5        |  |
| Aroclor-1248             | 3     | 8.942  | -0.002 | 25144  | 31.3                     | 3     | 9.133  | 0.013  | 881    | 4.4        |  |
| Aroclor-1248             | 4     | 9.251  | 0.008  | 25583  | 62.5                     | 4     | 9.500  | -0.045 | 335    | 1.4        |  |
| Total CollAve (4 peaks): |       |        |        | 31.1   | Total Col2Ave (4 peaks): |       |        |        | 6.3    | RPD = 132* |  |
| Corrected Ave (3 peaks): |       |        |        | 20.7   | Corrected Ave (3 peaks): |       |        |        | 4.1    | RPD = 134* |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1254             | 1     | 9.251  | 0.005  | 25583  | 39.5                     | 1     | 9.408  | 0.004  | 9719   | 37.4       |  |
| Aroclor-1254             | 2     | ---    |        |        | 0.0                      | 2     | 9.500  | 0.001  | 335    | 2.2        |  |
| Aroclor-1254             | 3     | 9.620  | 0.002  | 4245   | 10.2                     | 3     | 9.928  | 0.004  | 2055   | 9.8        |  |
| Aroclor-1254             | 4     | 9.758  | 0.003  | 11050  | 13.5                     | 4     | 10.100 | 0.022  | 55162  | 120.0      |  |
| Aroclor-1254             | 5     | 10.071 | -0.055 | 129151 | 261.4                    | 5     | 10.325 | -0.004 | 68421  | 150.1      |  |
| Total CollAve (4 peaks): |       |        |        | 81.1   | Total Col2Ave (5 peaks): |       |        |        | 63.9   | RPD = 24   |  |
| Corrected Ave (3 peaks): |       |        |        | 21.1   | Corrected Ave (4 peaks): |       |        |        | 42.3   | RPD = 67*  |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1260             | 1     | 10.995 | 0.002  | 206643 | 420.3                    | 1     | 11.605 | -0.001 | 119902 | 332.9      |  |
| Aroclor-1260             | 2     | 11.311 | 0.001  | 167443 | 345.1                    | 2     | 11.872 | 0.000  | 293746 | 311.8      |  |
| Aroclor-1260             | 3     | 11.687 | 0.001  | 390491 | 321.4                    | 3     | 12.386 | -0.002 | 131462 | 563.2      |  |
| Aroclor-1260             | 4     | 12.091 | 0.001  | 120118 | 201.8                    | 4     | 12.456 | 0.000  | 212898 | 338.4      |  |
| Aroclor-1260             | 5     | 12.195 | 0.002  | 155588 | 599.5                    | NS    | ---    |        |        | ----       |  |
| Total CollAve (5 peaks): |       |        |        | 377.6  | Total Col2Ave (4 peaks): |       |        |        | 386.6  | RPD = 2    |  |
| Corrected Ave (4 peaks): |       |        |        | 322.2  | Corrected Ave (3 peaks): |       |        |        | 327.7  | RPD = 2    |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1262             | 1     | 10.777 | -0.001 | 114050 | 271.2                    | 1     | 11.153 | 0.000  | 141861 | 258.2      |  |
| Aroclor-1262             | 2     | 12.195 | 0.001  | 155588 | 263.0                    | 2     | 11.605 | 0.000  | 119902 | 258.7      |  |
| Aroclor-1262             | 3     | 12.269 | 0.000  | 167998 | 264.2                    | 3     | 12.386 | -0.000 | 131462 | 259.6      |  |
| Aroclor-1262             | 4     | 12.938 | -0.001 | 136019 | 262.5                    | 4     | 12.456 | 0.000  | 212898 | 258.0      |  |
| Total CollAve (4 peaks): |       |        |        | 265.2  | Total Col2Ave (4 peaks): |       |        |        | 258.6  | RPD = 3    |  |
| Corrected Ave (3 peaks): |       |        |        | 263.3  | Corrected Ave (3 peaks): |       |        |        | 258.3  | RPD = 2    |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1268             | 1     | 12.195 | -0.000 | 155588 | 104.9                    | 1     | 12.386 | 0.001  | 131462 | 102.4      |  |
| Aroclor-1268             | 2     | 12.269 | 0.001  | 167998 | 114.1                    | 2     | 12.456 | 0.003  | 212898 | 154.3      |  |
| Aroclor-1268             | 3     | 12.675 | 0.027  | 60611  | 51.2                     | 3     | 12.843 | -0.000 | 8393   | 7.1        |  |
| Aroclor-1268             | 4     | 13.439 | 0.001  | 49821  | 14.7                     | 4     | 13.661 | -0.002 | 39480  | 10.4       |  |
| Total CollAve (4 peaks): |       |        |        | 71.2   | Total Col2Ave (4 peaks): |       |        |        | 68.6   | RPD = 4    |  |

Corrected Ave (3 peaks): 56.9      Corrected Ave (3 peaks): 40.0      RPD = 35

Total PCB Area Col1 (5.842 - 13.740) = 2870829      Col1 Total PCB = 0.4 ppm\*  
Total PCB Area Col2 (5.728 - 13.968) = 1885829      Col2 Total PCB = 0.5 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052337ECD7.D  
Data file 2: /230505.b/230505.b/05052337ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR3268SCV  
Client ID:  
Injection Date: 06-MAY-2023 05:00  
Report Date: 05/06/2023 11:31  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.743  | 0.001         | 373749   | 5.629  | 0.001          | 196946   | 38.4       | 40.4        | 5.2 | Tetrachloro-m-xylene |
| 13.842 | 0.002         | 525409   | 14.069 | 0.001          | 586548   | 55.1       | 59.3        | 7.4 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 646456      | 7.5 |
| Hexabromobiphenyl  | 876625         | 954969      | 8.9 |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 354120      | 1.4 |
| Hexabromobiphenyl  | 652984         | 696139      | 6.6 |

\* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 05-MAY-2023

<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        |        | ZB35 Col                 |        |        |         |                  |
|--------------------------|-------|--------|--------|--------|--------|--------------------------|--------|--------|---------|------------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount | Peak#                    | RT     | Shift  | Area    | Amount           |
| Aroclor-1016             | 1     | 7.214  | 0.001  | 28623  | 114.3  | 1                        | 7.205  | 0.002  | 23124   | 115.4            |
| Aroclor-1016             | 2     | 7.597  | 0.002  | 85721  | 109.5  | 2                        | 7.815  | 0.007  | 47496   | 111.2            |
| Aroclor-1016             | 3     | 7.735  | 0.002  | 41343  | 114.3  | 3                        | 8.014  | 0.008  | 24029   | 127.5            |
| Aroclor-1016             | 4     | 8.400  | 0.002  | 16653  | 111.6  | 4                        | 8.262  | 0.003  | 15421   | 103.0            |
| Total CollAve (4 peaks): |       |        |        | 112.4  |        | Total Col2Ave (4 peaks): |        |        |         | 114.3 RPD = 2    |
| Corrected Ave (3 peaks): |       |        |        | 111.8  |        | Corrected Ave (3 peaks): |        |        |         | 109.9 RPD = 2    |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1221             | 1     | 4.664  | 0.001  | 7272   | 159.9  | 1                        | 4.895  | 0.000  | 4045    | 154.9            |
| Aroclor-1221             | 2     | 6.070  | 0.001  | 13478  | 147.8  | 2                        | 6.246  | 0.000  | 9235    | 170.6            |
| Aroclor-1221             | 3     | 6.321  | 0.001  | 43831  | 202.3  | 3                        | 6.572  | 0.000  | 24300   | 285.4            |
| Total CollAve (3 peaks): |       |        |        | 170.0  |        | Total Col2Ave (3 peaks): |        |        |         | 203.6 RPD = 18   |
| Corrected Ave: < 3 Peaks |       |        |        |        |        | Corrected Ave: < 3 Peaks |        |        |         |                  |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1232             | 1     | 4.664  | 0.001  | 7272   | 240.1  | 1                        | 4.895  | 0.001  | 4045    | 294.5            |
| Aroclor-1232             | 2     | 6.070  | 0.001  | 13478  | 213.9  | 2                        | 7.205  | 0.001  | 23124   | 294.1            |
| Aroclor-1232             | 3     | 7.597  | 0.002  | 85721  | 285.5  | 3                        | 7.815  | 0.000  | 47496   | 300.7            |
| Aroclor-1232             | 4     | 8.527  | 0.000  | 36809  | 286.5  | 4                        | 8.669  | -0.000 | 14324   | 313.2            |
| Total CollAve (4 peaks): |       |        |        | 256.5  |        | Total Col2Ave (4 peaks): |        |        |         | 300.6 RPD = 16   |
| Corrected Ave (3 peaks): |       |        |        | 246.5  |        | Corrected Ave (3 peaks): |        |        |         | 296.5 RPD = 18   |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1242             | 1     | 7.214  | 0.002  | 28623  | 140.5  | 1                        | 7.205  | 0.002  | 23124   | 146.1            |
| Aroclor-1242             | 2     | 7.597  | 0.002  | 85721  | 132.8  | 2                        | 7.815  | 0.002  | 47496   | 141.1            |
| Aroclor-1242             | 3     | 8.400  | 0.002  | 16653  | 133.4  | 3                        | 9.128  | 0.005  | 14403   | 133.4            |
| Aroclor-1242             | 4     | 8.527  | 0.003  | 36809  | 127.4  | 4                        | 9.648  | 0.098  | 5512    | 42.4             |
| Total CollAve (4 peaks): |       |        |        | 133.5  |        | Total Col2Ave (4 peaks): |        |        |         | 115.7 RPD = 14   |
| Corrected Ave (3 peaks): |       |        |        | 131.2  |        | Corrected Ave (3 peaks): |        |        |         | 105.6 RPD = 22   |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1248             | 1     | 8.400  | 0.001  | 16653  | 100.9  | 1                        | 8.262  | 0.002  | 15421   | 91.5             |
| Aroclor-1248             | 2     | 8.527  | 0.003  | 36809  | 85.8   | 2                        | 8.669  | 0.002  | 14324   | 80.5             |
| Aroclor-1248             | 3     | 8.944  | 0.000  | 89377  | 108.4  | 3                        | 9.128  | 0.008  | 14403   | 69.0             |
| Aroclor-1248             | 4     | 9.238  | -0.005 | 41570  | 98.9   | 4                        | 9.560  | 0.015  | 17331   | 69.3             |
| Total CollAve (4 peaks): |       |        |        | 98.5   |        | Total Col2Ave (4 peaks): |        |        |         | 77.6 RPD = 24    |
| Corrected Ave (3 peaks): |       |        |        | 95.2   |        | Corrected Ave (3 peaks): |        |        |         | 72.9 RPD = 26    |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1254             | 1     | 9.238  | -0.008 | 41570  | 62.6   | 1                        | 9.407  | 0.003  | 5487    | 20.4             |
| Aroclor-1254             | 2     | 9.326  | 0.001  | 12640  | 42.3   | 2                        | 9.560  | 0.061  | 17331   | 108.4            |
| Aroclor-1254             | 3     | 9.624  | 0.006  | 7232   | 16.9   | 3                        | 9.929  | 0.005  | 3481    | 16.0             |
| Aroclor-1254             | 4     | 9.764  | 0.008  | 11671  | 13.9   | 4                        | 10.086 | 0.009  | 7259    | 15.3             |
| Aroclor-1254             | 5     | 10.139 | 0.014  | 7544   | 14.9   | 5                        | 10.345 | 0.017  | 6610    | 14.0             |
| Total CollAve (5 peaks): |       |        |        | 30.1   |        | Total Col2Ave (5 peaks): |        |        |         | 34.8 RPD = 14    |
| Corrected Ave (4 peaks): |       |        |        | 22.0   |        | Corrected Ave (4 peaks): |        |        |         | 16.4 RPD = 29    |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1260             | 1     | 10.998 | 0.005  | 85093  | 168.5  | 1                        | 11.598 | -0.008 | 75237   | 203.5            |
| Aroclor-1260             | 2     | 11.313 | 0.003  | 6363   | 12.8   | 2                        | 11.873 | 0.001  | 33655   | 34.8             |
| Aroclor-1260             | 3     | 11.688 | 0.002  | 47857  | 38.3   | 3                        | 12.384 | -0.004 | 346138  | 1444.4           |
| Aroclor-1260             | 4     | 12.094 | 0.004  | 1291   | 2.1    | 4                        | 12.453 | -0.002 | 373218  | 577.8            |
| Aroclor-1260             | 5     | 12.195 | 0.001  | 406211 | 1523.9 | NS                       | ---    |        |         | ----             |
| Total CollAve (5 peaks): |       |        |        | 349.1  |        | Total Col2Ave (4 peaks): |        |        |         | 565.1 RPD = 47*  |
| Corrected Ave (4 peaks): |       |        |        | 55.4   |        | Corrected Ave (3 peaks): |        |        |         | 272.0 RPD = 132* |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1262             | 1     | 10.785 | 0.006  | 4006   | 9.3    | 1                        | 11.156 | 0.002  | 52531   | 93.1             |
| Aroclor-1262             | 2     | 12.195 | 0.000  | 406211 | 668.6  | 2                        | 11.598 | -0.007 | 75237   | 158.2            |
| Aroclor-1262             | 3     | 12.268 | -0.002 | 403730 | 618.2  | 3                        | 12.384 | -0.002 | 346138  | 665.8            |
| Aroclor-1262             | 4     | 12.937 | -0.002 | 145536 | 273.5  | 4                        | 12.453 | -0.002 | 373218  | 440.5            |
| Total CollAve (4 peaks): |       |        |        | 392.4  |        | Total Col2Ave (4 peaks): |        |        |         | 339.4 RPD = 14   |
| Corrected Ave (3 peaks): |       |        |        | 300.3  |        | Corrected Ave (3 peaks): |        |        |         | 230.6 RPD = 26   |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1268             | 1     | 12.195 | -0.001 | 406211 | 266.7  | 1                        | 12.384 | -0.001 | 346138  | 262.7            |
| Aroclor-1268             | 2     | 12.268 | -0.000 | 403730 | 266.9  | 2                        | 12.453 | 0.001  | 373218  | 263.5            |
| Aroclor-1268             | 3     | 12.648 | -0.000 | 323568 | 266.0  | 3                        | 12.844 | 0.001  | 316122  | 260.6            |
| Aroclor-1268             | 4     | 13.439 | 0.002  | 920777 | 265.1  | 4                        | 13.663 | 0.000  | 1029335 | 264.8            |
| Total CollAve (4 peaks): |       |        |        | 266.2  |        | Total Col2Ave (4 peaks): |        |        |         | 262.9 RPD = 1    |

Corrected Ave (3 peaks): 265.9      Corrected Ave (3 peaks): 262.3      RPD = 1

Total PCB Area Col1 (5.842 - 13.740) = 3325332      Col1 Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 2876097      Col2 Total PCB = 0.7 ppm\*

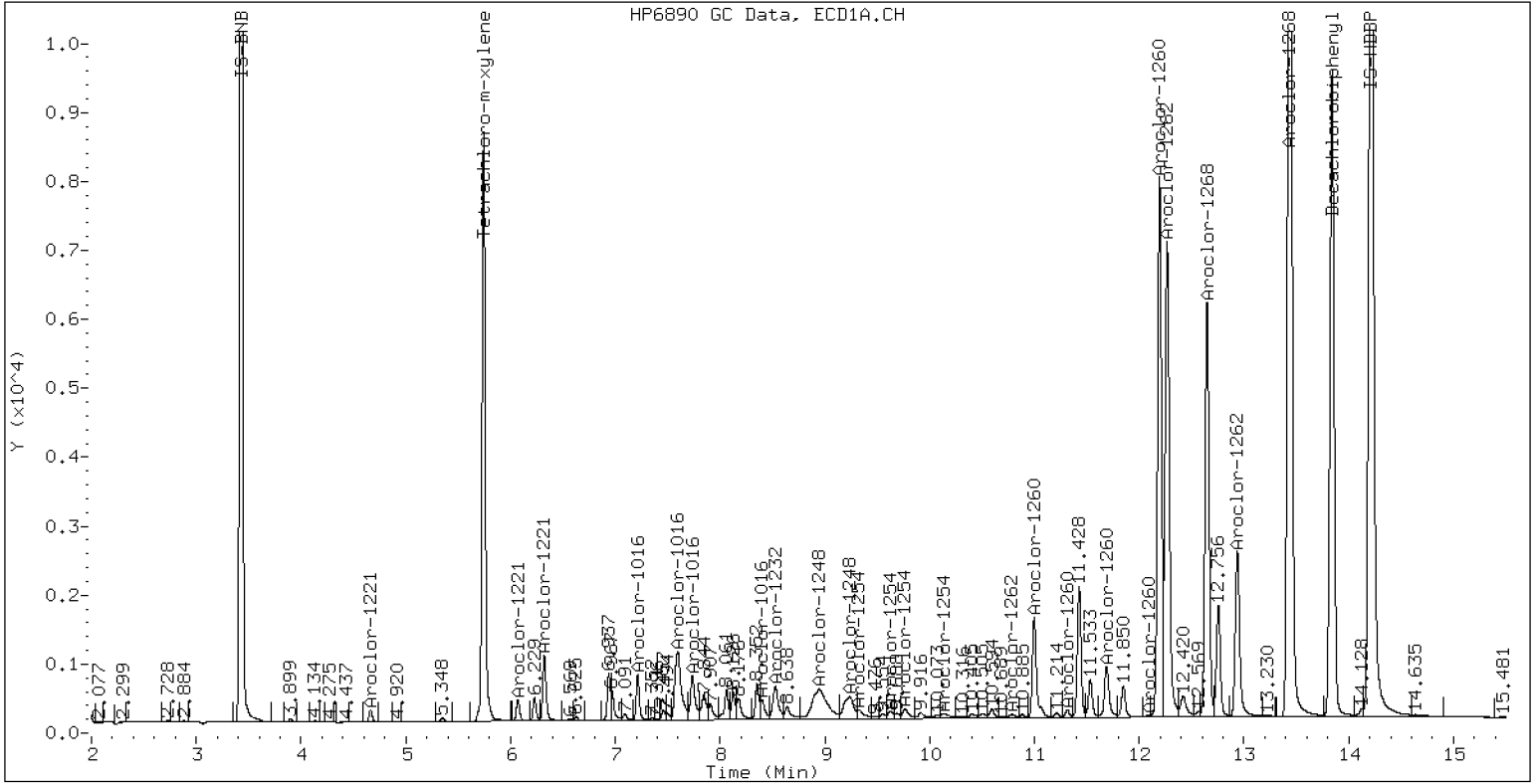
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV

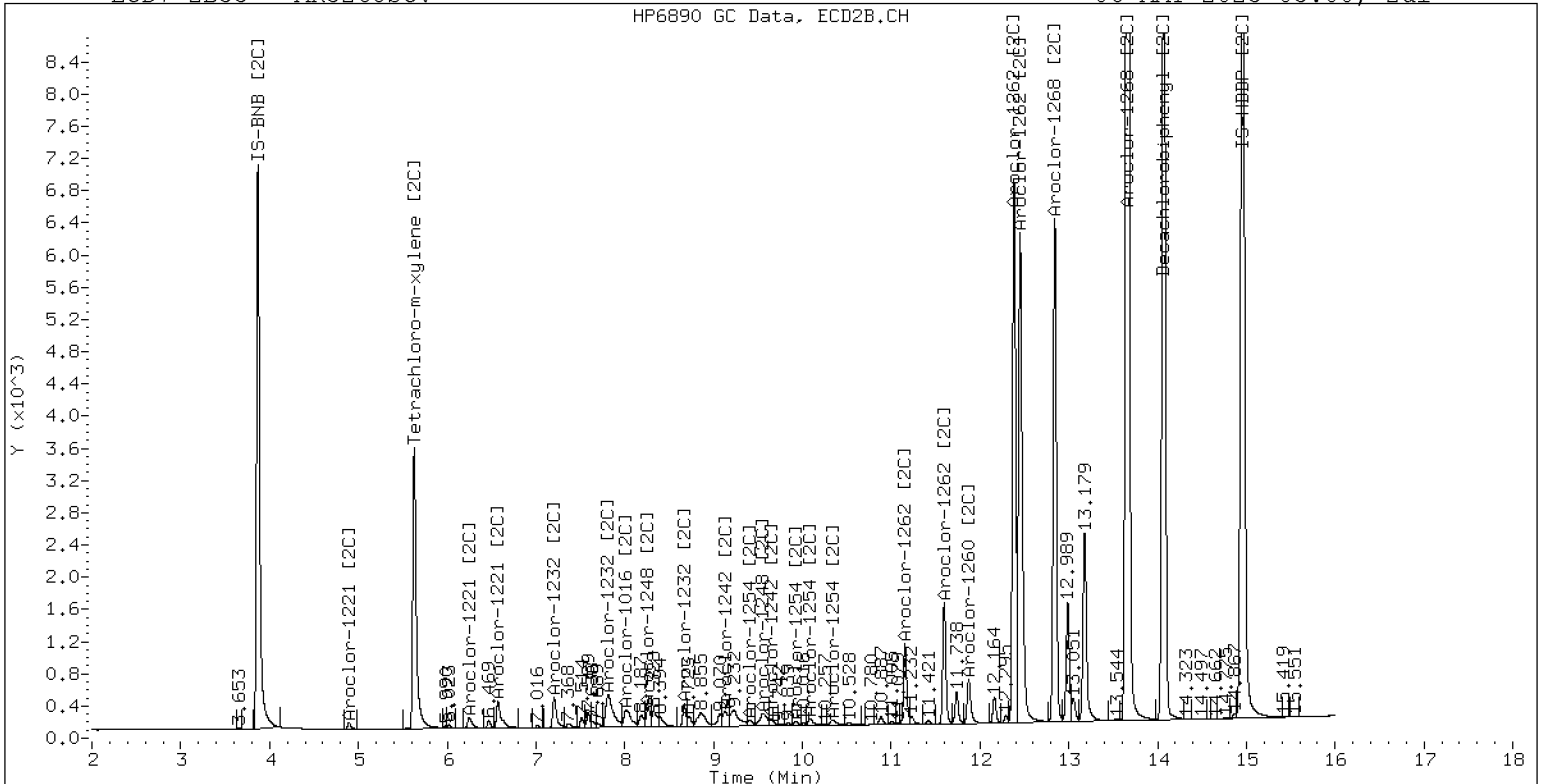
06-MAY-2023 05:00, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV

06-MAY-2023 05:00, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.  
8082 DDT SCREEN REPORT

Data file 1: /230505.b/05052338ECD7.D

ARI ID: DDTS

| RT     | ZB5 Col<br>Shift | Response | RT     | ZB35 Col<br>Shift | Response | ZB5<br>on col | ZB35<br>on col | RPD  | Compound/Flag |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|------|---------------|
| 9.206  | 0.000            | 428189   | 9.867  | 0.000             | 428008   | 0.100         | 0.000          | ---- | 2,4-DDE       |
| 0.000  | -10.293          | 0        | 10.625 | 0.000             | 621468   | 0.000         | 0.000#         | ---- | 2,4-DDT       |
| 9.635  | 0.000            | 1004111  | 10.165 | 0.000             | 369270   | 0.100         | 0.000          | ---- | 4,4-DDE       |
| 10.243 | 0.000            | 476377   | 10.625 | 0.000             | 621468   | 0.100         | 0.000#         | ---- | 4,4-DDD       |

# Indicates value is from co-eluting peaks

\* Indicates RPD > 40%

Analytical Resources Inc.  
8082 DDT SCREEN REPORT

Data file 1: /230505.b/05052339ECD7.D

ARI ID: DDT BD

| RT     | ZB5 Col<br>Shift Response |        | ZB35 Col<br>Shift Response |       | ZB5<br>on col | ZB35<br>on col | RPD    | Compound/Flag |         |
|--------|---------------------------|--------|----------------------------|-------|---------------|----------------|--------|---------------|---------|
| 9.158  | -0.049                    | 12021  | 9.884                      | 0.017 | 17091         | 0.002          | 0.000  | ----          | 2,4-DDE |
| 0.000  | -10.293                   | 0      | 10.633                     | 0.008 | 326807        | 0.000          | 0.000# | ----          | 2,4-DDT |
| 9.644  | 0.009                     | 16770  | 10.190                     | 0.025 | 488           | 0.001          | 0.000  | ----          | 4,4-DDE |
| 10.216 | -0.028                    | 403865 | 10.633                     | 0.008 | 326807        | 0.068          | 0.000# | ----          | 4,4-DDD |

# Indicates value is from co-eluting peaks

\* Indicates RPD > 40%



**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 8082A**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GA00061

**Laboratory ID:** SLA0281-SCV1

**Sequence:** SLA0281

**Sequence Name:** AR1660SCV1

**Standard ID:** K007655

| <b>ANALYTE</b>             | <b>EXPECTED<br/>(ug/L)</b> | <b>FOUND<br/>(ug/L)</b> | <b>% DRIFT</b> | <b>QC LIMIT</b> |
|----------------------------|----------------------------|-------------------------|----------------|-----------------|
| Aroclor 1016               | 250.00                     | 217                     | -13.2          | 20.00           |
| Aroclor 1016 [2C]          | 250.00                     | 220                     | -11.9          | 20.00           |
| Aroclor 1260               | 250.00                     | 211                     | -15.7          | 20.00           |
| Aroclor 1260 [2C]          | 250.00                     | 238                     | -4.9           | 20.00           |
| Decachlorobiphenyl         | 40.000                     | 37.9                    | -5.1           | 20.00           |
| Tetrachlorometaxylene      | 40.000                     | 37.5                    | -6.2           | 20.00           |
| Decachlorobiphenyl [2C]    | 40.000                     | 40.2                    | 0.6            | 20.00           |
| Tetrachlorometaxylene [2C] | 40.000                     | 37.3                    | -6.8           | 20.00           |

\* Indicates values outside of QC limits  
[2C] indicates second-column analyte.



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242324ECD7.D  
Data file 2: /230124.b/230124.b/01242324ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660 SCV  
Client ID:  
Injection Date: 24-JAN-2023 19:51  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.809  | -0.000        | 268739   | 5.686  | -0.001         | 172961   | 37.5       | 37.3        | 0.6 | Tetrachloro-m-xylene |
| 13.891 | -0.000        | 381489   | 14.121 | 0.001          | 320416   | 37.9       | 40.2        | 5.9 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 506576      | 0.6  |
| Hexabromobiphenyl  | 647433         | 940129      | 45.2 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 343102      | 1.8  |
| Hexabromobiphenyl  | 382032         | 501702      | 31.3 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |        |                 |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|-----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area   | Amount          |
| Aroclor-1016             | 1     | 7.271  | 0.001  | 40958  | 217.6    | 1                        | 7.255  | 0.001  | 40190  | 216.0           |
| Aroclor-1016             | 2     | 7.655  | 0.004  | 135282 | 216.9    | 2                        | 7.852  | 0.001  | 90338  | 221.5           |
| Aroclor-1016             | 3     | 7.791  | 0.003  | 61557  | 214.5    | 3                        | 8.052  | 0.002  | 37810  | 227.2           |
| Aroclor-1016             | 4     | 8.406  | 0.002  | 40372  | 218.7    | 4                        | 8.306  | 0.000  | 28171  | 215.9           |
| Total CollAve (4 peaks): |       |        |        | 216.9  |          | Total Col2Ave (4 peaks): |        |        |        | 220.2 RPD = 1   |
| Corrected Ave (3 peaks): |       |        |        | 216.3  |          | Corrected Ave (3 peaks): |        |        |        | 217.8 RPD = 1   |
| Aroclor-1221             | 1     | 4.732  | -0.001 | 256    | 6.8      | 1                        | ---    |        |        | 0.0             |
| Aroclor-1221             | 2     | 6.131  | -0.002 | 4742   | 61.9     | 2                        | 6.302  | 0.004  | 5037   | 91.4            |
| Aroclor-1221             | 3     | 6.384  | -0.000 | 27448  | 154.4    | 3                        | 6.623  | -0.000 | 18931  | 203.5           |
| Total CollAve (3 peaks): |       |        |        | 74.4   |          | Col2Ave: <3 Quant Peaks  |        |        |        |                 |
| Aroclor-1232             | 1     | 4.732  | -0.001 | 256    | 11.0     | 1                        | ---    |        |        | 0.0             |
| Aroclor-1232             | 2     | 6.131  | -0.002 | 4742   | 90.0     | 2                        | 7.255  | -0.001 | 40190  | 470.8           |
| Aroclor-1232             | 3     | 7.655  | -0.004 | 135282 | 513.5    | 3                        | 7.852  | -0.002 | 90338  | 519.5           |
| Aroclor-1232             | 4     | 8.581  | -0.003 | 56938  | 504.9    | 4                        | 8.713  | -0.001 | 27776  | 574.9           |
| Total CollAve (4 peaks): |       |        |        | 279.8  |          | Total Col2Ave (3 peaks): |        |        |        | 521.7 RPD = 60* |
| Corrected Ave (3 peaks): |       |        |        | 202.0  |          | Corrected Ave: < 3 Peaks |        |        |        |                 |
| Aroclor-1242             | 1     | 7.271  | -0.000 | 40958  | 264.0    | 1                        | 7.255  | -0.000 | 40190  | 267.8           |
| Aroclor-1242             | 2     | 7.655  | -0.001 | 135282 | 266.5    | 2                        | 7.852  | -0.001 | 90338  | 271.0           |
| Aroclor-1242             | 3     | 8.406  | -0.001 | 40372  | 267.7    | 3                        | 9.115  | -0.045 | 15827  | 151.6           |
| Aroclor-1242             | 4     | 8.581  | -0.000 | 56938  | 249.9    | 4                        | 9.587  | 0.001  | 3186   | 23.0            |
| Total CollAve (4 peaks): |       |        |        | 262.0  |          | Total Col2Ave (4 peaks): |        |        |        | 178.4 RPD = 38  |
| Corrected Ave (3 peaks): |       |        |        | 260.1  |          | Corrected Ave (3 peaks): |        |        |        | 147.5 RPD = 55* |
| Aroclor-1248             | 1     | 8.406  | 0.000  | 40372  | 159.3    | 1                        | 8.306  | 0.000  | 28171  | 181.6           |
| Aroclor-1248             | 2     | 8.581  | 0.001  | 56938  | 176.1    | 2                        | 8.713  | 0.000  | 27776  | 166.4           |
| Aroclor-1248             | 3     | 8.995  | -0.004 | 58213  | 94.1     | 3                        | 9.115  | -0.042 | 15827  | 77.6            |
| Aroclor-1248             | 4     | 9.304  | 0.010  | 36620  | 119.6    | 4                        | 9.587  | 0.006  | 3186   | 12.6            |
| Total CollAve (4 peaks): |       |        |        | 137.3  |          | Total Col2Ave (4 peaks): |        |        |        | 109.6 RPD = 22  |
| Corrected Ave (3 peaks): |       |        |        | 124.4  |          | Corrected Ave (3 peaks): |        |        |        | 85.5 RPD = 37   |
| Aroclor-1254             | 1     | 9.304  | 0.005  | 36620  | 70.9     | 1                        | 9.450  | 0.002  | 20792  | 83.5            |
| Aroclor-1254             | 2     | ---    |        |        | 0.0      | 2                        | 9.972  | 0.003  | 2640   | 13.1            |
| Aroclor-1254             | 3     | 9.673  | 0.003  | 4075   | 12.3     | 3                        | 10.148 | 0.027  | 52902  | 120.5           |
| Aroclor-1254             | 4     | 9.813  | 0.004  | 14733  | 22.7     | 4                        | 10.372 | 0.000  | 71680  | 163.3           |
| Aroclor-1254             | 5     | 10.122 | -0.055 | 119528 | 283.6    | 5                        | 10.569 | -0.000 | 98559  | 403.2           |
| Total CollAve (4 peaks): |       |        |        | 97.4   |          | Total Col2Ave (5 peaks): |        |        |        | 156.7 RPD = 47* |
| Corrected Ave (3 peaks): |       |        |        | 35.3   |          | Corrected Ave (4 peaks): |        |        |        | 95.1 RPD = 92*  |
| Aroclor-1260             | 1     | 11.045 | 0.002  | 116435 | 220.7    | 1                        | 11.654 | 0.000  | 81795  | 226.0           |
| Aroclor-1260             | 2     | 11.362 | 0.001  | 116918 | 215.6    | 2                        | 11.920 | 0.002  | 217887 | 238.0           |
| Aroclor-1260             | 3     | 11.738 | 0.003  | 303264 | 212.5    | 3                        | 12.437 | 0.001  | 56212  | 246.3           |
| Aroclor-1260             | 4     | 12.143 | 0.004  | 141534 | 191.9    | 4                        | 12.502 | 0.000  | 142689 | 240.8           |
| Aroclor-1260             | 5     | 12.246 | 0.002  | 68446  | 212.9    | NS                       | ---    |        |        | ----            |
| Total CollAve (5 peaks): |       |        |        | 210.7  |          | Total Col2Ave (4 peaks): |        |        |        | 237.8 RPD = 12  |
| Corrected Ave (4 peaks): |       |        |        | 208.2  |          | Corrected Ave (3 peaks): |        |        |        | 234.9 RPD = 12  |
| Aroclor-1262             | 1     | 10.830 | -0.002 | 169725 | 446.4    | 1                        | 11.200 | 0.000  | 83995  | 171.1           |
| Aroclor-1262             | 2     | 12.246 | 0.000  | 68446  | 114.1    | 2                        | 11.654 | 0.001  | 81795  | 195.9           |
| Aroclor-1262             | 3     | 12.320 | -0.000 | 84201  | 129.2    | 3                        | 12.437 | 0.003  | 56212  | 126.4           |
| Aroclor-1262             | 4     | 12.989 | -0.000 | 78065  | 131.5    | 4                        | 12.502 | -0.001 | 142689 | 200.4           |
| Total CollAve (4 peaks): |       |        |        | 205.3  |          | Total Col2Ave (4 peaks): |        |        |        | 173.4 RPD = 17  |
| Corrected Ave (3 peaks): |       |        |        | 124.9  |          | Corrected Ave (3 peaks): |        |        |        | 164.5 RPD = 27  |
| Aroclor-1268             | 1     | 12.246 | 0.001  | 68446  | 44.1     | 1                        | 12.437 | 0.003  | 56212  | 48.0            |
| Aroclor-1268             | 2     | 12.320 | 0.002  | 84201  | 54.4     | 2                        | 12.502 | 0.001  | 142689 | 114.4           |
| Aroclor-1268             | 3     | 12.726 | 0.027  | 33020  | 25.7     | 3                        | 12.894 | 0.001  | 1495   | 1.4             |
| Aroclor-1268             | 4     | 13.490 | 0.001  | 16019  | 4.2      | 4                        | 13.709 | 0.001  | 10120  | 3.2             |
| Total CollAve (4 peaks): |       |        |        | 32.1   |          | Total Col2Ave (4 peaks): |        |        |        | 41.8 RPD = 26   |
| Corrected Ave (3 peaks): |       |        |        | 24.7   |          | Corrected Ave (3 peaks): |        |        |        | 17.5 RPD = 34   |

Total PCB Area Col1 (5.909 - 13.792) = 2789370 Col1 Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 1810543 Col2 Total PCB = 0.5 ppm\*

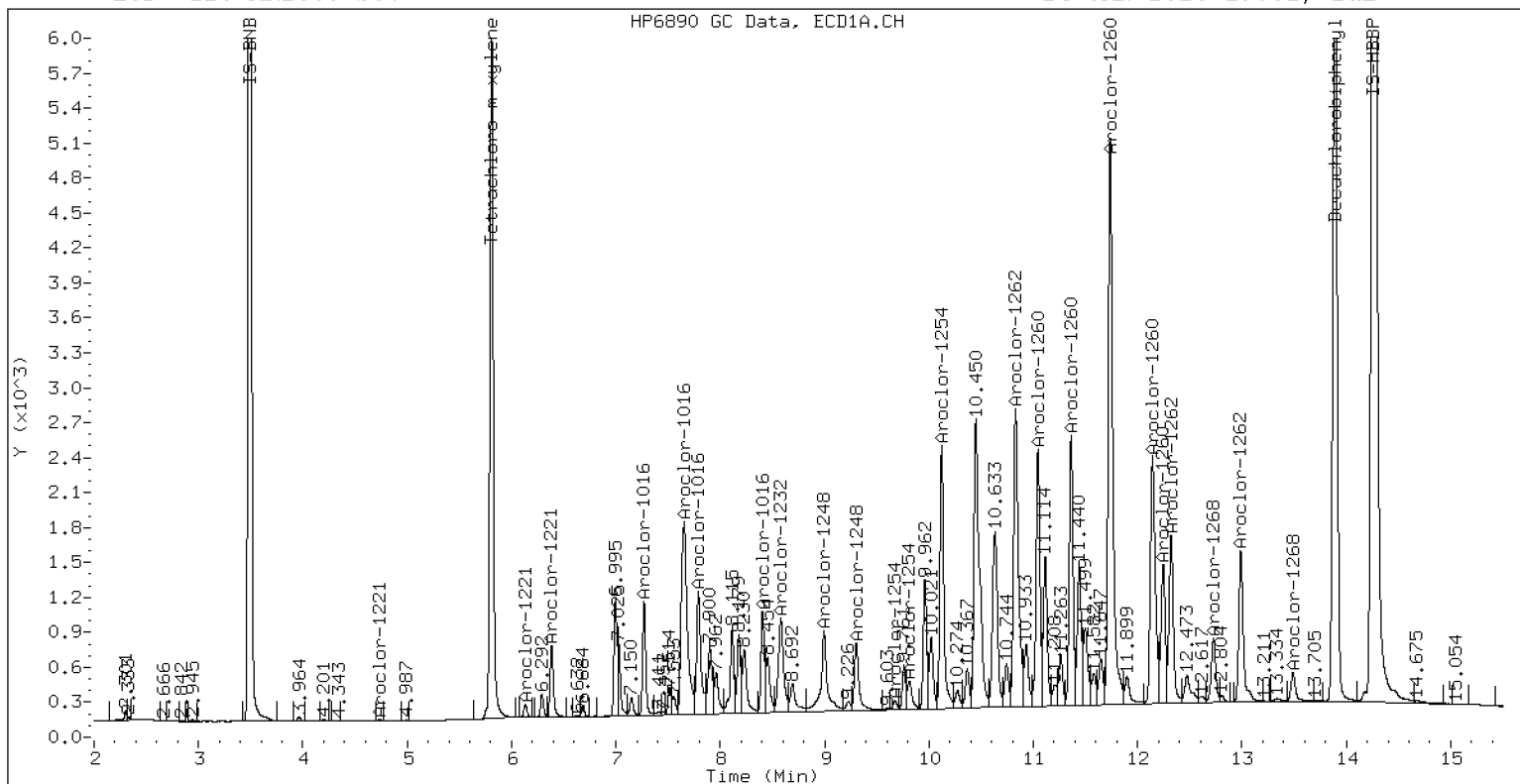
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1660 SCV

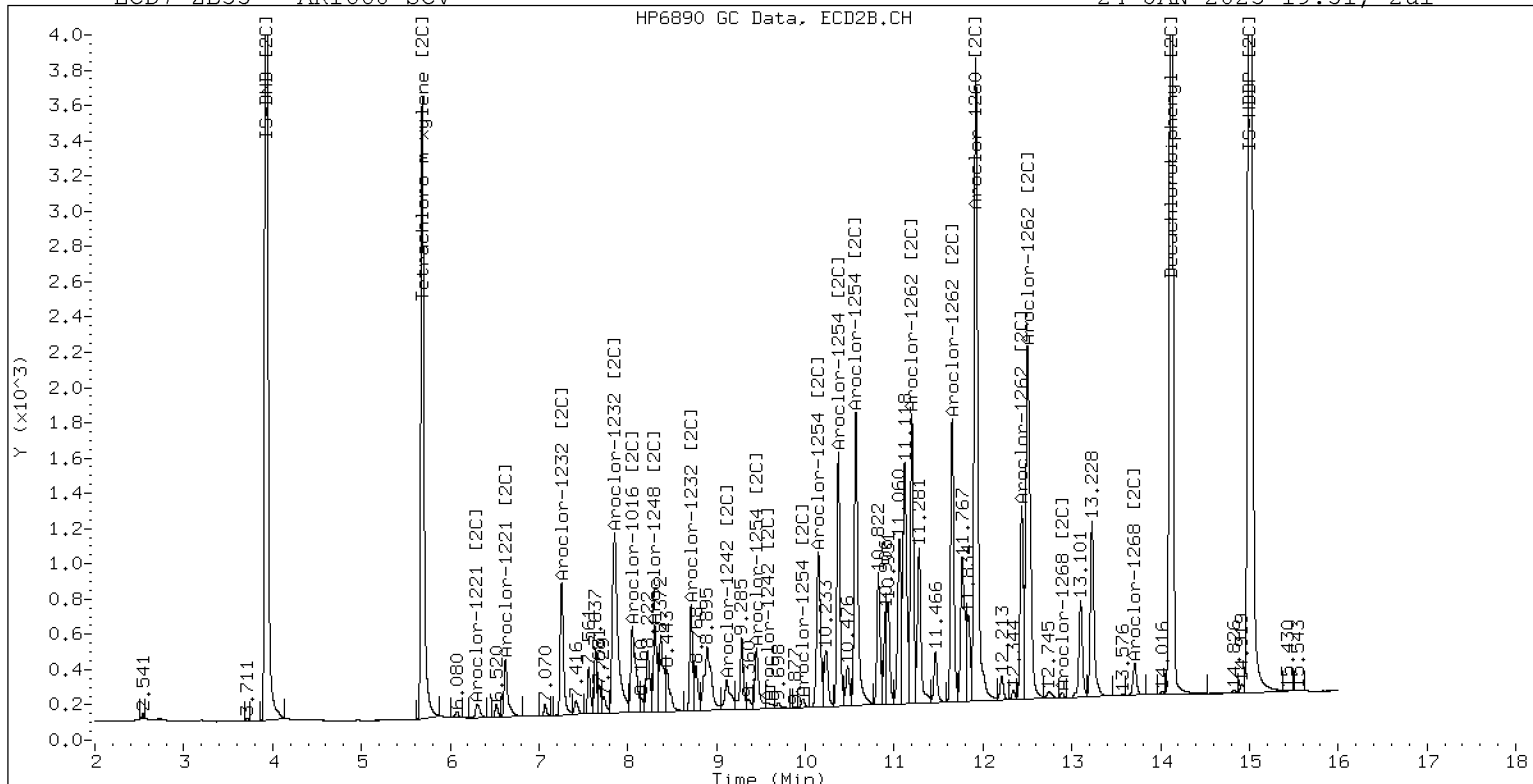
24-JAN-2023 19:51, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660 SCV

24-JAN-2023 19:51, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 8082A**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GA00061

**Laboratory ID:** SLA0281-SCV2

**Sequence:** SLA0281

**Sequence Name:** AR1242SCV2

**Standard ID:** K007656

| <b>ANALYTE</b>             | <b>EXPECTED<br/>(ug/L)</b> | <b>FOUND<br/>(ug/L)</b> | <b>% DRIFT</b> | <b>QC LIMIT</b> |
|----------------------------|----------------------------|-------------------------|----------------|-----------------|
| Aroclor 1242               | 250.00                     | 223                     | -10.9          | 20.00           |
| Aroclor 1242 [2C]          | 250.00                     | 235                     | -5.9           | 20.00           |
| Decachlorobiphenyl         | 40.000                     | 38.5                    | -3.6           | 20.00           |
| Tetrachlorometaxylene      | 40.000                     | 37.8                    | -5.6           | 20.00           |
| Decachlorobiphenyl [2C]    | 40.000                     | 40.3                    | 0.9            | 20.00           |
| Tetrachlorometaxylene [2C] | 40.000                     | 37.4                    | -6.6           | 20.00           |

\* Indicates values outside of QC limits

[2C] indicates second-column analyte.

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242325ECD7.D  
Data file 2: /230124.b/230124.b/01242325ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1242 SCV  
Client ID:  
Injection Date: 24-JAN-2023 20:12  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.809   | -0.000 | 268580   | 5.686  | -0.001 | 172592   | 37.8   | 37.4 | 1.1           | Tetrachloro-m-xylene |
| 13.892  | 0.001  | 392918   | 14.121 | 0.001  | 323869   | 38.5   | 40.3 | 4.6           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 503089      | -0.0 |
| Hexabromobiphenyl  | 647433         | 953137      | 47.2 |
| Column 2           |                |             |      |
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 341704      | 1.4  |
| Hexabromobiphenyl  | 382032         | 505860      | 32.4 |

\* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 24-JAN-2023

<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |       |                 |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|-------|-----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area  | Amount          |
| Aroclor-1016             | 1     | 7.271  | 0.001  | 29901  | 159.9    | 1                        | 7.255  | 0.000  | 32077 | 173.1           |
| Aroclor-1016             | 2     | 7.653  | 0.003  | 107333 | 173.3    | 2                        | 7.851  | -0.000 | 71438 | 175.9           |
| Aroclor-1016             | 3     | 7.790  | 0.002  | 45013  | 157.9    | 3                        | 8.051  | 0.001  | 29072 | 175.4           |
| Aroclor-1016             | 4     | 8.406  | 0.002  | 32958  | 179.8    | 4                        | 8.306  | 0.001  | 21761 | 167.5           |
| Total CollAve (4 peaks): |       |        |        | 167.7  |          | Total Col2Ave (4 peaks): |        |        |       | 173.0 RPD = 3   |
| Corrected Ave (3 peaks): |       |        |        | 163.7  |          | Corrected Ave (3 peaks): |        |        |       | 172.0 RPD = 5   |
| Aroclor-1221             | 1     | 4.737  | 0.004  | 141    | 3.8      | 1                        | ---    |        |       | 0.0             |
| Aroclor-1221             | 2     | 6.133  | -0.001 | 3649   | 48.0     | 2                        | 6.317  | 0.018  | 4290  | 78.2            |
| Aroclor-1221             | 3     | 6.384  | -0.000 | 21189  | 120.0    | 3                        | 6.624  | 0.001  | 14613 | 157.7           |
| Total CollAve (3 peaks): |       |        |        | 57.3   |          | Col2Ave: <3 Quant Peaks  |        |        |       |                 |
| Aroclor-1232             | 1     | 4.737  | 0.003  | 141    | 6.1      | 1                        | ---    |        |       | 0.0             |
| Aroclor-1232             | 2     | 6.133  | -0.001 | 3649   | 69.7     | 2                        | 7.255  | -0.002 | 32077 | 377.3           |
| Aroclor-1232             | 3     | 7.653  | -0.005 | 107333 | 410.2    | 3                        | 7.851  | -0.004 | 71438 | 412.5           |
| Aroclor-1232             | 4     | 8.581  | -0.003 | 59617  | 532.3    | 4                        | 8.713  | -0.000 | 22563 | 468.9           |
| Total CollAve (4 peaks): |       |        |        | 254.6  |          | Total Col2Ave (3 peaks): |        |        |       | 419.6 RPD = 49* |
| Corrected Ave (3 peaks): |       |        |        | 162.0  |          | Corrected Ave: < 3 Peaks |        |        |       |                 |
| Aroclor-1242             | 1     | 7.271  | 0.000  | 29901  | 194.1    | 1                        | 7.255  | -0.001 | 32077 | 214.6           |
| Aroclor-1242             | 2     | 7.653  | -0.002 | 107333 | 212.9    | 2                        | 7.851  | -0.002 | 71438 | 215.2           |
| Aroclor-1242             | 3     | 8.406  | -0.000 | 32958  | 220.0    | 3                        | 9.156  | -0.004 | 27374 | 263.3           |
| Aroclor-1242             | 4     | 8.581  | -0.000 | 59617  | 263.5    | 4                        | 9.581  | -0.006 | 34156 | 247.9           |
| Total CollAve (4 peaks): |       |        |        | 222.6  |          | Total Col2Ave (4 peaks): |        |        |       | 235.3 RPD = 6   |
| Corrected Ave (3 peaks): |       |        |        | 209.0  |          | Corrected Ave (3 peaks): |        |        |       | 225.9 RPD = 8   |
| Aroclor-1248             | 1     | 8.406  | 0.001  | 32958  | 131.0    | 1                        | 8.306  | 0.001  | 21761 | 140.9           |
| Aroclor-1248             | 2     | 8.581  | 0.001  | 59617  | 185.7    | 2                        | 8.713  | 0.001  | 22563 | 135.7           |
| Aroclor-1248             | 3     | 9.003  | 0.004  | 72557  | 118.2    | 3                        | 9.156  | -0.000 | 27374 | 134.7           |
| Aroclor-1248             | 4     | 9.296  | 0.003  | 28122  | 92.5     | 4                        | 9.581  | -0.001 | 34156 | 135.9           |
| Total CollAve (4 peaks): |       |        |        | 131.8  |          | Total Col2Ave (4 peaks): |        |        |       | 136.8 RPD = 4   |
| Corrected Ave (3 peaks): |       |        |        | 113.9  |          | Corrected Ave (3 peaks): |        |        |       | 135.5 RPD = 17  |
| Aroclor-1254             | 1     | 9.296  | -0.002 | 28122  | 54.8     | 1                        | 9.448  | 0.000  | 11650 | 47.0            |
| Aroclor-1254             | 2     | 9.380  | 0.002  | 9292   | 42.4     | 2                        | 9.968  | -0.001 | 7642  | 38.1            |
| Aroclor-1254             | 3     | 9.671  | 0.001  | 12871  | 39.2     | 3                        | 10.120 | -0.001 | 16012 | 36.6            |
| Aroclor-1254             | 4     | 9.808  | -0.000 | 22113  | 34.4     | 4                        | 10.378 | 0.007  | 16300 | 37.3            |
| Aroclor-1254             | 5     | 10.176 | -0.001 | 17771  | 42.5     | 5                        | 10.572 | 0.004  | 4439  | 18.2            |
| Total CollAve (5 peaks): |       |        |        | 42.7   |          | Total Col2Ave (5 peaks): |        |        |       | 35.5 RPD = 18   |
| Corrected Ave (4 peaks): |       |        |        | 39.6   |          | Corrected Ave (4 peaks): |        |        |       | 32.6 RPD = 19   |
| Aroclor-1260             | 1     | 11.047 | 0.003  | 741    | 1.4      | 1                        | 11.663 | 0.010  | 1794  | 4.9             |
| Aroclor-1260             | 2     | 11.366 | 0.006  | 379    | 0.7      | 2                        | 11.923 | 0.005  | 1208  | 1.3             |
| Aroclor-1260             | 3     | 11.745 | 0.011  | 860    | 0.6      | 3                        | 12.507 | 0.071  | 977   | 4.2             |
| Aroclor-1260             | 4     | 12.154 | 0.014  | 1536   | 2.1      | 4                        | ---    |        |       | 0.0             |
| Aroclor-1260             | 5     | ---    |        |        | 0.0      | NS                       | ---    |        |       | ----            |
| Total CollAve (4 peaks): |       |        |        | 1.2    |          | Total Col2Ave (3 peaks): |        |        |       | 3.5 RPD = 99*   |
| Corrected Ave (3 peaks): |       |        |        | 0.9    |          | Corrected Ave: < 3 Peaks |        |        |       |                 |
| Aroclor-1262             | 1     | 10.836 | 0.004  | 10654  | 27.6     | 1                        | 11.120 | -0.080 | 8071  | 16.3            |
| Aroclor-1262             | 2     | 12.154 | -0.092 | 1536   | 2.5      | 2                        | 11.663 | 0.010  | 1794  | 4.3             |
| Aroclor-1262             | 3     | ---    |        |        | 0.0      | 3                        | 12.507 | 0.073  | 977   | 2.2             |
| Aroclor-1262             | 4     | 13.040 | 0.051  | 1739   | 2.9      | 4                        | ---    |        |       | 0.0             |
| Total CollAve (3 peaks): |       |        |        | 11.0   |          | Total Col2Ave (3 peaks): |        |        |       | 7.6 RPD = 37    |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |       |                 |
| Aroclor-1268             | 1     | 12.154 | -0.091 | 1536   | 1.0      | 1                        | 12.507 | 0.073  | 977   | 0.8             |
| Aroclor-1268             | 2     | ---    |        |        | 0.0      | 2                        | ---    |        |       | 0.0             |
| Aroclor-1268             | 3     | 12.623 | -0.076 | 5080   | 3.9      | 3                        | 12.894 | 0.001  | 98    | 0.1             |
| Aroclor-1268             | 4     | 13.501 | 0.012  | 2725   | 0.7      | 4                        | 13.707 | -0.001 | 1566  | 0.5             |
| Total CollAve (3 peaks): |       |        |        | 1.9    |          | Total Col2Ave (3 peaks): |        |        |       | 0.5 RPD = 120*  |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |       |                 |

Total PCB Area Col1 (5.909 - 13.792) = 915887 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 575897 Col2 Total PCB = 0.2 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

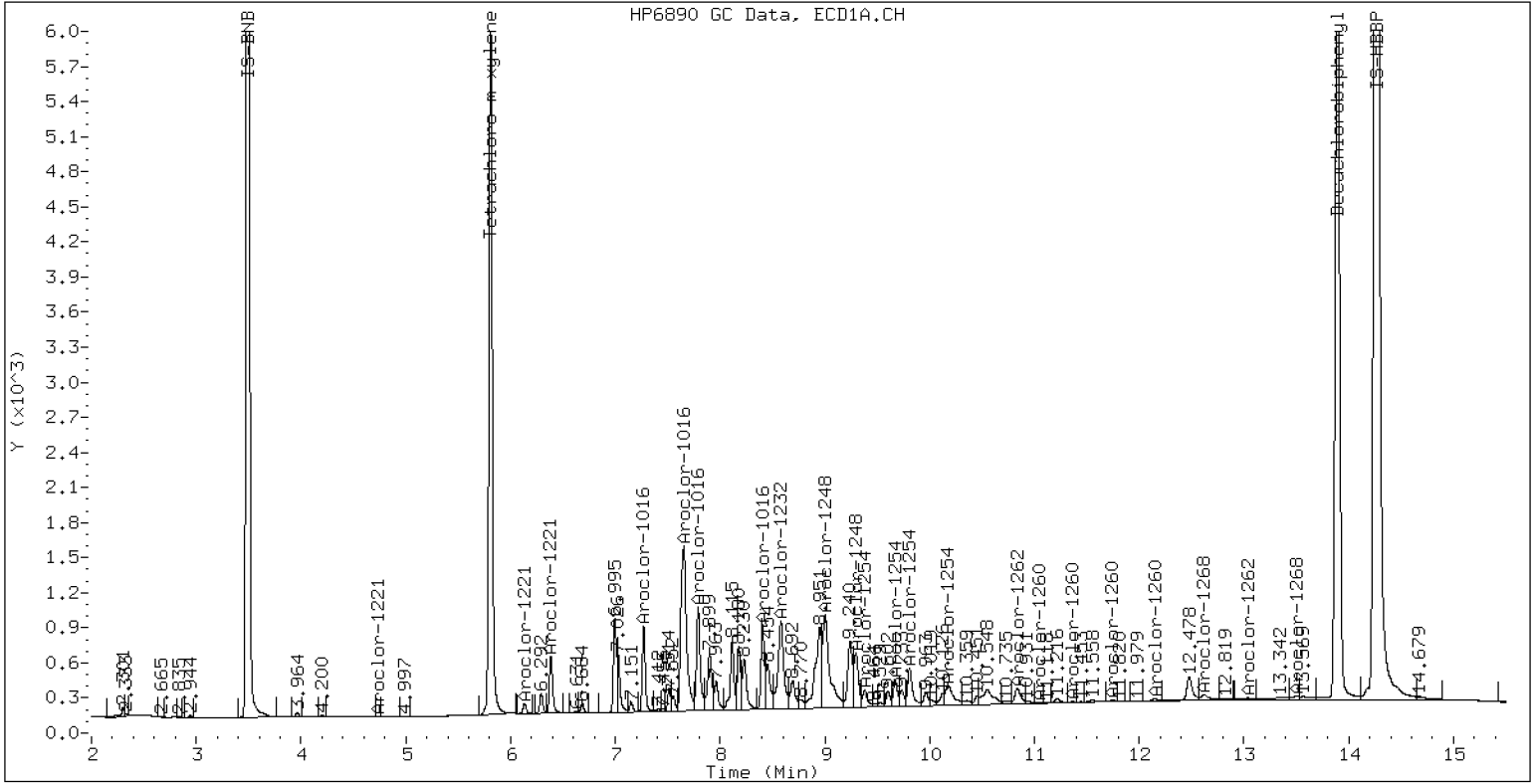
PCB-Form 10 Mod.



# PCB Dual Column Chromatograms

ECD7-ZB5 AR1242 SCV

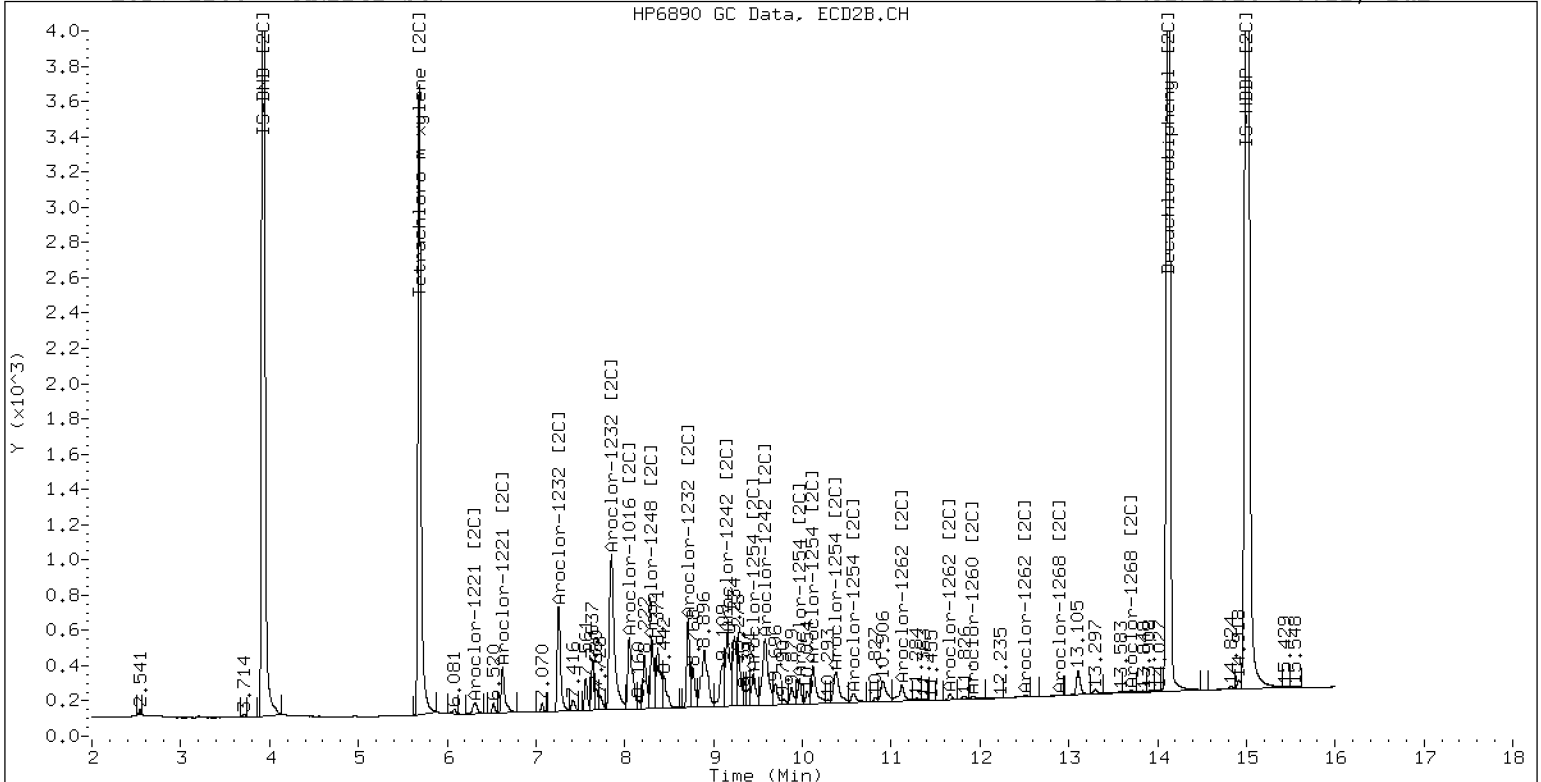
24-JAN-2023 20:12, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242 SCV

24-JAN-2023 20:12, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 8082A**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GA00061

**Laboratory ID:** SLA0281-SCV3

**Sequence:** SLA0281

**Sequence Name:** AR1248SCV3

**Standard ID:** K007657

| <b>ANALYTE</b>             | <b>EXPECTED<br/>(ug/L)</b> | <b>FOUND<br/>(ug/L)</b> | <b>% DRIFT</b> | <b>QC LIMIT</b> |
|----------------------------|----------------------------|-------------------------|----------------|-----------------|
| Aroclor 1248               | 250.00                     | 237                     | -5.1           | 20.00           |
| Aroclor 1248 [2C]          | 250.00                     | 231                     | -7.6           | 20.00           |
| Decachlorobiphenyl         | 40.000                     | 38.3                    | -4.3           | 20.00           |
| Tetrachlorometaxylene      | 40.000                     | 36.8                    | -8.1           | 20.00           |
| Decachlorobiphenyl [2C]    | 40.000                     | 39.6                    | -1.1           | 20.00           |
| Tetrachlorometaxylene [2C] | 40.000                     | 36.5                    | -8.6           | 20.00           |

\* Indicates values outside of QC limits

[2C] indicates second-column analyte.

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242326ECD7.D  
Data file 2: /230124.b/230124.b/01242326ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1248 SCV  
Client ID:  
Injection Date: 24-JAN-2023 20:33  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col<br>Shift | Response | RT     | ZB35 Col<br>Shift | Response | ZB5<br>on col | ZB35<br>on col | RPD | Compound/Flag        |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.809  | 0.000            | 263982   | 5.686  | -0.001            | 169991   | 36.8          | 36.5           | 0.6 | Tetrachloro-m-xylene |
| 13.892 | 0.001            | 400655   | 14.121 | 0.001             | 316171   | 38.3          | 39.6           | 3.4 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 508189      | 1.0  |
| Hexabromobiphenyl  | 647433         | 979067      | 51.2 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 344105      | 2.1  |
| Hexabromobiphenyl  | 382032         | 503378      | 31.8 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |       |                |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|-------|----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area  | Amount         |
| Aroclor-1016             | 1     | 7.271  | 0.001  | 14777  | 78.3     | 1                        | 7.254  | -0.001 | 16100 | 86.3           |
| Aroclor-1016             | 2     | 7.655  | 0.004  | 70114  | 112.1    | 2                        | 7.853  | 0.002  | 47184 | 115.4          |
| Aroclor-1016             | 3     | 7.794  | 0.006  | 27212  | 94.5     | 3                        | 8.053  | 0.003  | 9427  | 56.5           |
| Aroclor-1016             | 4     | 8.406  | 0.003  | 59884  | 323.4    | 4                        | 8.306  | 0.001  | 36680 | 280.3          |
| Total CollAve (4 peaks): |       |        |        | 152.0  |          | Total Col2Ave (4 peaks): |        |        |       | 134.6 RPD = 12 |
| Corrected Ave (3 peaks): |       |        |        | 94.9   |          | Corrected Ave (3 peaks): |        |        |       | 86.0 RPD = 10  |
| Aroclor-1221             | 1     | ---    |        |        | 0.0      | 1                        | ---    |        |       | 0.0            |
| Aroclor-1221             | 2     | 6.133  | -0.000 | 591    | 7.7      | 2                        | 6.323  | 0.025  | 1820  | 32.9           |
| Aroclor-1221             | 3     | 6.386  | 0.001  | 2453   | 13.8     | 3                        | 6.627  | 0.004  | 1477  | 15.8           |
| CollAve: <3 Quant Peaks  |       |        |        |        |          | Col2Ave: <3 Quant Peaks  |        |        |       |                |
| Aroclor-1232             | 1     | ---    |        |        | 0.0      | 1                        | ---    |        |       | 0.0            |
| Aroclor-1232             | 2     | 6.133  | -0.000 | 591    | 11.2     | 2                        | 7.254  | -0.002 | 16100 | 188.0          |
| Aroclor-1232             | 3     | 7.655  | -0.004 | 70114  | 265.3    | 3                        | 7.853  | -0.001 | 47184 | 270.6          |
| Aroclor-1232             | 4     | 8.581  | -0.003 | 76286  | 674.3    | 4                        | 8.714  | 0.000  | 39330 | 811.7          |
| Total CollAve (3 peaks): |       |        |        | 316.9  |          | Total Col2Ave (3 peaks): |        |        |       | 423.4 RPD = 29 |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |       |                |
| Aroclor-1242             | 1     | 7.271  | 0.000  | 14777  | 95.0     | 1                        | 7.254  | -0.002 | 16100 | 107.0          |
| Aroclor-1242             | 2     | 7.655  | -0.001 | 70114  | 137.7    | 2                        | 7.853  | 0.000  | 47184 | 141.2          |
| Aroclor-1242             | 3     | 8.406  | -0.000 | 59884  | 395.8    | 3                        | 9.159  | -0.001 | 46988 | 448.9          |
| Aroclor-1242             | 4     | 8.581  | -0.000 | 76286  | 333.8    | 4                        | 9.584  | -0.003 | 56615 | 408.1          |
| Total CollAve (4 peaks): |       |        |        | 240.5  |          | Total Col2Ave (4 peaks): |        |        |       | 276.3 RPD = 14 |
| Corrected Ave (3 peaks): |       |        |        | 188.8  |          | Corrected Ave (3 peaks): |        |        |       | 218.7 RPD = 15 |
| Aroclor-1248             | 1     | 8.406  | 0.001  | 59884  | 235.6    | 1                        | 8.306  | 0.001  | 36680 | 235.8          |
| Aroclor-1248             | 2     | 8.581  | 0.001  | 76286  | 235.2    | 2                        | 8.714  | 0.002  | 39330 | 234.9          |
| Aroclor-1248             | 3     | 9.000  | 0.001  | 148805 | 239.9    | 3                        | 9.159  | 0.003  | 46988 | 229.7          |
| Aroclor-1248             | 4     | 9.295  | 0.001  | 73114  | 238.1    | 4                        | 9.584  | 0.002  | 56615 | 223.8          |
| Total CollAve (4 peaks): |       |        |        | 237.2  |          | Total Col2Ave (4 peaks): |        |        |       | 231.0 RPD = 3  |
| Corrected Ave (3 peaks): |       |        |        | 236.3  |          | Corrected Ave (3 peaks): |        |        |       | 229.5 RPD = 3  |
| Aroclor-1254             | 1     | 9.295  | -0.004 | 73114  | 141.2    | 1                        | 9.449  | 0.001  | 20314 | 81.4           |
| Aroclor-1254             | 2     | 9.378  | 0.000  | 36561  | 165.3    | 2                        | 9.970  | 0.000  | 18678 | 92.6           |
| Aroclor-1254             | 3     | 9.672  | 0.003  | 30736  | 92.6     | 3                        | 10.124 | 0.003  | 35321 | 80.2           |
| Aroclor-1254             | 4     | 9.813  | 0.004  | 53537  | 82.3     | 4                        | 10.387 | 0.015  | 35188 | 79.9           |
| Aroclor-1254             | 5     | 10.192 | 0.015  | 40119  | 94.9     | 5                        | 10.575 | 0.006  | 7386  | 30.1           |
| Total CollAve (5 peaks): |       |        |        | 115.3  |          | Total Col2Ave (5 peaks): |        |        |       | 72.9 RPD = 45* |
| Corrected Ave (4 peaks): |       |        |        | 102.7  |          | Corrected Ave (4 peaks): |        |        |       | 67.9 RPD = 41* |
| Aroclor-1260             | 1     | 11.054 | 0.010  | 1868   | 3.4      | 1                        | 11.664 | 0.011  | 2055  | 5.7            |
| Aroclor-1260             | 2     | 11.366 | 0.005  | 1375   | 2.4      | 2                        | 11.926 | 0.009  | 1303  | 1.4            |
| Aroclor-1260             | 3     | 11.745 | 0.010  | 2137   | 1.4      | 3                        | 12.439 | 0.003  | 395   | 1.7            |
| Aroclor-1260             | 4     | 12.147 | 0.008  | 1650   | 2.1      | 4                        | 12.507 | 0.005  | 890   | 1.5            |
| Aroclor-1260             | 5     | 12.255 | 0.011  | 558    | 1.7      | NS                       | ---    |        |       | ----           |
| Total CollAve (5 peaks): |       |        |        | 2.2    |          | Total Col2Ave (4 peaks): |        |        |       | 2.6 RPD = 15   |
| Corrected Ave (4 peaks): |       |        |        | 1.9    |          | Corrected Ave (3 peaks): |        |        |       | 1.5 RPD = 22   |
| Aroclor-1262             | 1     | 10.837 | 0.005  | 12736  | 32.2     | 1                        | 11.122 | -0.078 | 7136  | 14.5           |
| Aroclor-1262             | 2     | 12.255 | 0.010  | 558    | 0.9      | 2                        | 11.664 | 0.011  | 2055  | 4.9            |
| Aroclor-1262             | 3     | 12.327 | 0.006  | 596    | 0.9      | 3                        | 12.439 | 0.004  | 395   | 0.9            |
| Aroclor-1262             | 4     | 12.996 | 0.007  | 1113   | 1.8      | 4                        | 12.507 | 0.003  | 890   | 1.2            |
| Total CollAve (4 peaks): |       |        |        | 8.9    |          | Total Col2Ave (4 peaks): |        |        |       | 5.4 RPD = 50*  |
| Corrected Ave (3 peaks): |       |        |        | 1.2    |          | Corrected Ave (3 peaks): |        |        |       | 2.3 RPD = 65*  |
| Aroclor-1268             | 1     | 12.255 | 0.010  | 558    | 0.3      | 1                        | 12.439 | 0.005  | 395   | 0.3            |
| Aroclor-1268             | 2     | 12.327 | 0.009  | 596    | 0.4      | 2                        | 12.507 | 0.005  | 890   | 0.7            |
| Aroclor-1268             | 3     | 12.706 | 0.007  | 1161   | 0.9      | 3                        | 12.896 | 0.003  | 166   | 0.2            |
| Aroclor-1268             | 4     | 13.504 | 0.016  | 3330   | 0.8      | 4                        | 13.717 | 0.009  | 469   | 0.1            |
| Total CollAve (4 peaks): |       |        |        | 0.6    |          | Total Col2Ave (4 peaks): |        |        |       | 0.3 RPD = 57*  |
| Corrected Ave (3 peaks): |       |        |        | 0.5    |          | Corrected Ave (3 peaks): |        |        |       | 0.2 RPD = 83*  |

Total PCB Area Col1 (5.909 - 13.792) = 1230760 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 742749 Col2 Total PCB = 0.2 ppm\*

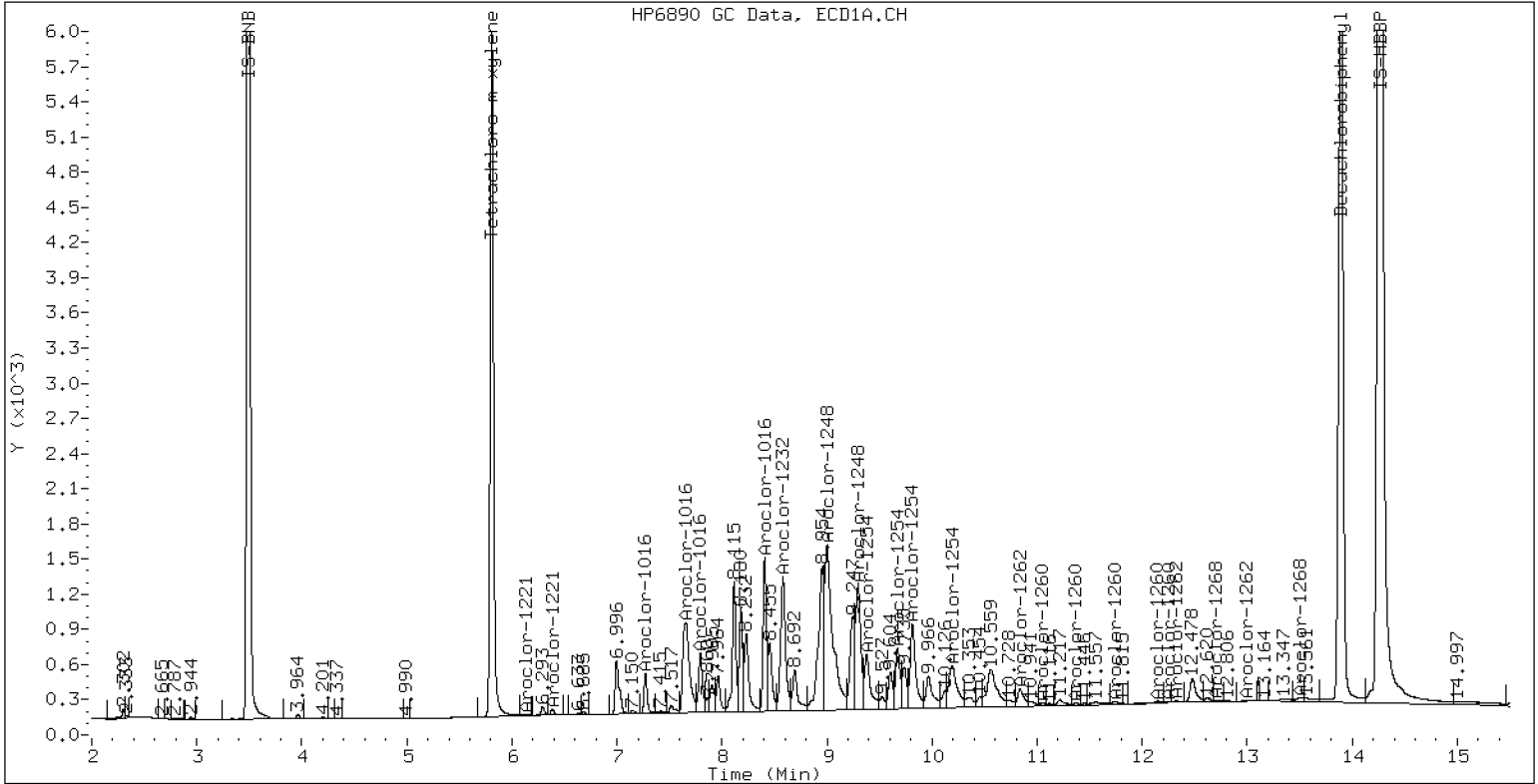
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1248 SCV

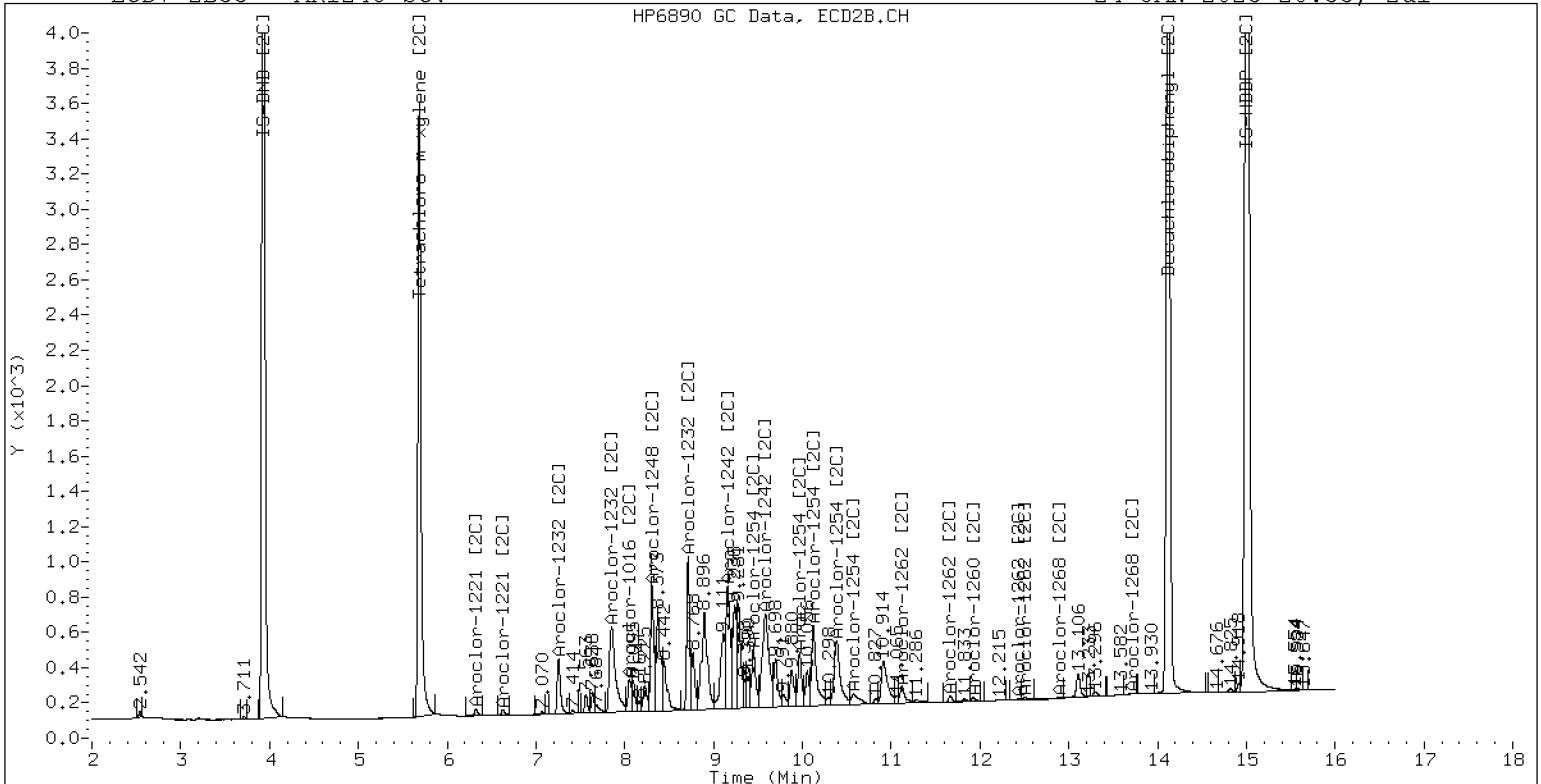
24-JAN-2023 20:33, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248 SCV

24-JAN-2023 20:33, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 8082A**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GA00061

**Laboratory ID:** SLA0281-SCV4

**Sequence:** SLA0281

**Sequence Name:** AR1254SCV4

**Standard ID:** K007658

| <b>ANALYTE</b>             | <b>EXPECTED<br/>(ug/L)</b> | <b>FOUND<br/>(ug/L)</b> | <b>% DRIFT</b> | <b>QC LIMIT</b> |
|----------------------------|----------------------------|-------------------------|----------------|-----------------|
| Aroclor 1254               | 250.00                     | 221                     | -11.7          | 20.00           |
| Aroclor 1254 [2C]          | 250.00                     | 227                     | -9.4           | 20.00           |
| Decachlorobiphenyl         | 40.000                     | 37.1                    | -7.3           | 20.00           |
| Tetrachlorometaxylene      | 40.000                     | 36.7                    | -8.3           | 20.00           |
| Decachlorobiphenyl [2C]    | 40.000                     | 39.5                    | -1.1           | 20.00           |
| Tetrachlorometaxylene [2C] | 40.000                     | 36.6                    | -8.4           | 20.00           |

\* Indicates values outside of QC limits

[2C] indicates second-column analyte.

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242327ECD7.D  
Data file 2: /230124.b/230124.b/01242327ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1254 SCV  
Client ID:  
Injection Date: 24-JAN-2023 20:54  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.809   | -0.000 | 261398   | 5.686  | -0.001 | 169839   | 36.7   | 36.6 | 0.1           | Tetrachloro-m-xylene |
| 13.892  | 0.001  | 383983   | 14.121 | 0.001  | 323233   | 37.1   | 39.5 | 6.4           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 504424      | 0.2  |
| Hexabromobiphenyl  | 647433         | 968338      | 49.6 |

| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 342969      | 1.8  |
| Hexabromobiphenyl  | 382032         | 515045      | 34.8 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                  |       |        |        |        |   | ZB35 Col |        |        |       |            |  |
|--------------------------|-------|--------|--------|--------|---|----------|--------|--------|-------|------------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                                  | Peak#    | RT     | Shift  | Area  | Amount     |  |
| Aroclor-1016             | 1     | 7.273  | 0.003  | 320    | 1.7                                     | 1        | 7.258  | 0.003  | 332   | 1.8        |  |
| Aroclor-1016             | 2     | 7.658  | 0.008  | 991    | 1.6                                     | 2        | ---    |        |       | 0.0        |  |
| Aroclor-1016             | 3     | 7.795  | 0.007  | 662    | 2.3                                     | 3        | 8.097  | 0.047  | 515   | 3.1        |  |
| Aroclor-1016             | 4     | 8.408  | 0.005  | 21378  | 116.3                                   | 4        | 8.307  | 0.002  | 20446 | 156.8      |  |
| Total CollAve (4 peaks): |       |        |        | 30.5   | Total Col2Ave (3 peaks):                |          |        |        | 53.9  | RPD = 55*  |  |
| Corrected Ave (3 peaks): |       |        |        | 1.9    | Corrected Ave: < 3 Peaks                |          |        |        |       |            |  |
| Aroclor-1221             | 1     | ---    |        |        | 0.0                                     | 1        | ---    |        |       | 0.0        |  |
| Aroclor-1221             | 2     | ---    |        |        | 0.0                                     | 2        | 6.325  | 0.026  | 1749  | 31.7       |  |
| Aroclor-1221             | 3     | ---    |        |        | 0.0                                     | 3        | 6.633  | 0.011  | 321   | 3.5        |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks                 |          |        |        |       |            |  |
| Aroclor-1232             | 1     | ---    |        |        | 0.0                                     | 1        | ---    |        |       | 0.0        |  |
| Aroclor-1232             | 2     | ---    |        |        | 0.0                                     | 2        | 7.258  | 0.001  | 332   | 3.9        |  |
| Aroclor-1232             | 3     | 7.658  | -0.000 | 991    | 3.8                                     | 3        | ---    |        |       | 0.0        |  |
| Aroclor-1232             | 4     | 8.587  | 0.003  | 8887   | 79.1                                    | 4        | 8.715  | 0.001  | 14030 | 290.5      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks                 |          |        |        |       |            |  |
| Aroclor-1242             | 1     | 7.273  | 0.002  | 320    | 2.1                                     | 1        | 7.258  | 0.002  | 332   | 2.2        |  |
| Aroclor-1242             | 2     | 7.658  | 0.003  | 991    | 2.0                                     | 2        | ---    |        |       | 0.0        |  |
| Aroclor-1242             | 3     | 8.408  | 0.002  | 21378  | 142.3                                   | 3        | 9.164  | 0.004  | 26593 | 254.9      |  |
| Aroclor-1242             | 4     | 8.587  | 0.006  | 8887   | 39.2                                    | 4        | 9.543  | -0.043 | 34385 | 248.7      |  |
| Total CollAve (4 peaks): |       |        |        | 46.4   | Total Col2Ave (3 peaks):                |          |        |        | 168.6 | RPD = 114* |  |
| Corrected Ave (3 peaks): |       |        |        | 14.4   | Corrected Ave: < 3 Peaks                |          |        |        |       |            |  |
| Aroclor-1248             | 1     | 8.408  | 0.003  | 21378  | 84.7                                    | 1        | 8.307  | 0.001  | 20446 | 131.9      |  |
| Aroclor-1248             | 2     | 8.587  | 0.007  | 8887   | 27.6                                    | 2        | 8.715  | 0.003  | 14030 | 84.1       |  |
| Aroclor-1248             | 3     | 8.995  | -0.004 | 110289 | 179.1                                   | 3        | 9.164  | 0.007  | 26593 | 130.4      |  |
| Aroclor-1248             | 4     | 9.300  | 0.007  | 113143 | 371.2                                   | 4        | 9.543  | -0.038 | 34385 | 136.4      |  |
| Total CollAve (4 peaks): |       |        |        | 165.7  | Total Col2Ave (4 peaks):                |          |        |        | 120.7 | RPD = 31   |  |
| Corrected Ave (3 peaks): |       |        |        | 97.2   | Corrected Ave (3 peaks): 115.5 RPD = 17 |          |        |        |       |            |  |
| Aroclor-1254             | 1     | 9.300  | 0.002  | 113143 | 220.1                                   | 1        | 9.449  | 0.001  | 56453 | 226.9      |  |
| Aroclor-1254             | 2     | 9.379  | 0.001  | 49468  | 225.4                                   | 2        | 9.970  | 0.001  | 45325 | 225.4      |  |
| Aroclor-1254             | 3     | 9.671  | 0.002  | 72811  | 221.0                                   | 3        | 10.122 | 0.002  | 97044 | 221.2      |  |
| Aroclor-1254             | 4     | 9.811  | 0.002  | 140530 | 217.7                                   | 4        | 10.374 | 0.002  | 98778 | 225.2      |  |
| Aroclor-1254             | 5     | 10.182 | 0.005  | 92254  | 219.8                                   | 5        | 10.570 | 0.001  | 57171 | 234.0      |  |
| Total CollAve (5 peaks): |       |        |        | 220.8  | Total Col2Ave (5 peaks):                |          |        |        | 226.5 | RPD = 3    |  |
| Corrected Ave (4 peaks): |       |        |        | 219.7  | Corrected Ave (4 peaks): 224.7 RPD = 2  |          |        |        |       |            |  |
| Aroclor-1260             | 1     | 11.045 | 0.002  | 8960   | 16.5                                    | 1        | 11.661 | 0.008  | 26985 | 72.6       |  |
| Aroclor-1260             | 2     | 11.364 | 0.004  | 9237   | 16.5                                    | 2        | 11.923 | 0.006  | 19882 | 21.2       |  |
| Aroclor-1260             | 3     | 11.741 | 0.007  | 21268  | 14.5                                    | 3        | 12.505 | 0.069  | 13190 | 56.3       |  |
| Aroclor-1260             | 4     | 12.146 | 0.007  | 19041  | 25.1                                    | 4        | ---    |        |       | 0.0        |  |
| Aroclor-1260             | 5     | 12.321 | 0.077  | 1835   | 5.5                                     | NS       | ---    |        |       | ---        |  |
| Total CollAve (5 peaks): |       |        |        | 15.6   | Total Col2Ave (3 peaks):                |          |        |        | 50.0  | RPD = 105* |  |
| Corrected Ave (4 peaks): |       |        |        | 13.3   | Corrected Ave: < 3 Peaks                |          |        |        |       |            |  |
| Aroclor-1262             | 1     | 10.832 | 0.000  | 157590 | 402.4                                   | 1        | 11.119 | -0.081 | 92414 | 183.3      |  |
| Aroclor-1262             | 2     | 12.321 | 0.075  | 1835   | 3.0                                     | 2        | 11.661 | 0.008  | 26985 | 63.0       |  |
| Aroclor-1262             | 3     | ---    |        |        | 0.0                                     | 3        | 12.505 | 0.071  | 13190 | 28.9       |  |
| Aroclor-1262             | 4     | 12.995 | 0.006  | 843    | 1.4                                     | 4        | ---    |        |       | 0.0        |  |
| Total CollAve (3 peaks): |       |        |        | 135.6  | Total Col2Ave (3 peaks):                |          |        |        | 91.7  | RPD = 39   |  |
| Corrected Ave: < 3 Peaks |       |        |        |        | Corrected Ave: < 3 Peaks                |          |        |        |       |            |  |
| Aroclor-1268             | 1     | 12.321 | 0.076  | 1835   | 1.1                                     | 1        | 12.505 | 0.072  | 13190 | 11.0       |  |
| Aroclor-1268             | 2     | ---    |        |        | 0.0                                     | 2        | ---    |        |       | 0.0        |  |
| Aroclor-1268             | 3     | 12.720 | 0.021  | 1314   | 1.0                                     | 3        | 12.891 | -0.002 | 169   | 0.2        |  |
| Aroclor-1268             | 4     | 13.504 | 0.016  | 1169   | 0.3                                     | 4        | 13.706 | -0.002 | 1132  | 0.3        |  |
| Total CollAve (3 peaks): |       |        |        | 0.8    | Total Col2Ave (3 peaks):                |          |        |        | 3.8   | RPD = 130* |  |
| Corrected Ave: < 3 Peaks |       |        |        |        | Corrected Ave: < 3 Peaks                |          |        |        |       |            |  |

Total PCB Area Col1 (5.909 - 13.792) = 1507519 Col1 Total PCB = 0.3 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 951047 Col2 Total PCB = 0.3 ppm\*

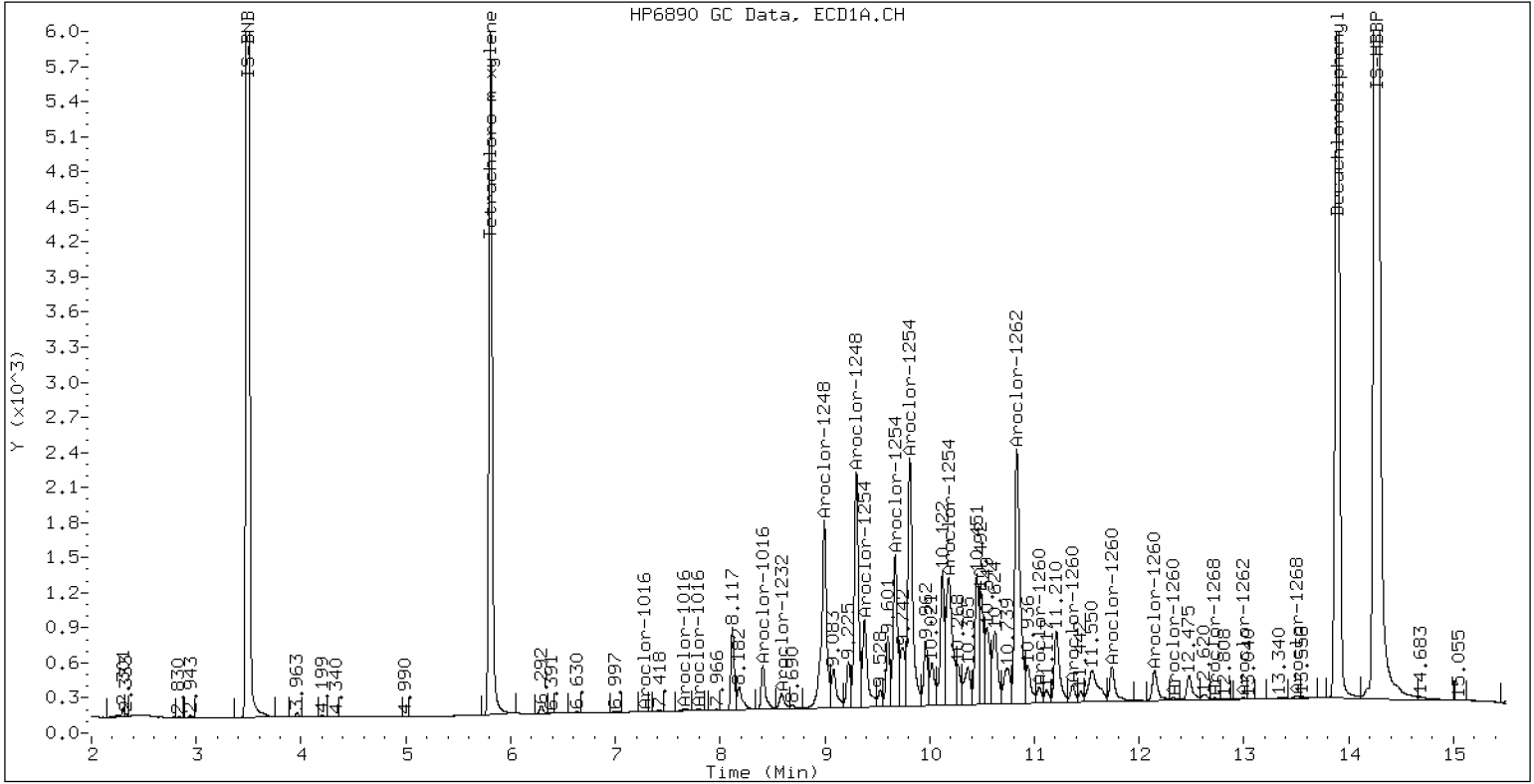
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1254 SCV

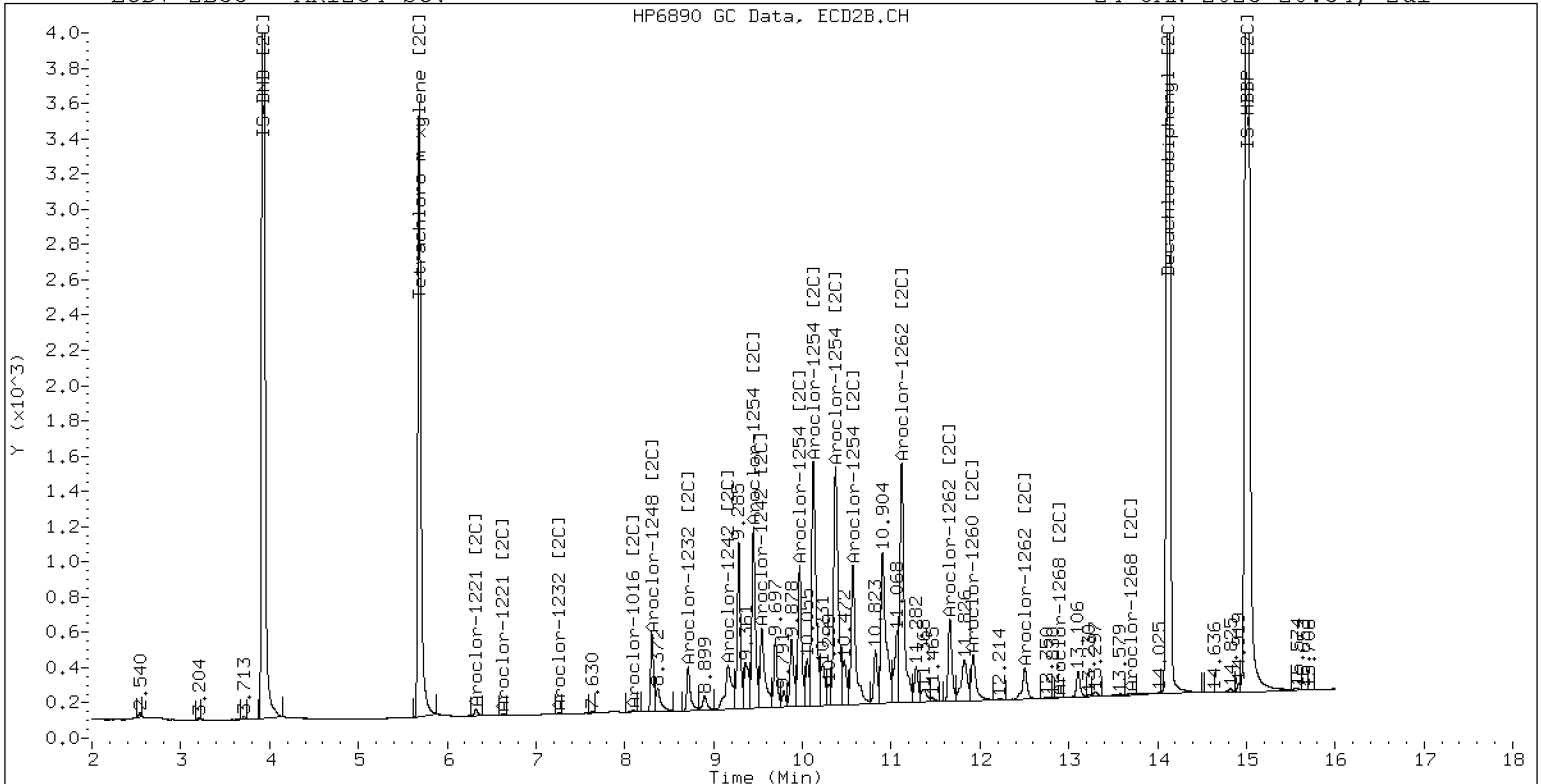
24-JAN-2023 20:54, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254 SCV

24-JAN-2023 20:54, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 8082A**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GA00061

**Laboratory ID:** SLA0281-SCV5

**Sequence:** SLA0281

**Sequence Name:** AR2162SCV5

**Standard ID:** K007659

| <b>ANALYTE</b>             | <b>EXPECTED<br/>(ug/L)</b> | <b>FOUND<br/>(ug/L)</b> | <b>% DRIFT</b> | <b>QC LIMIT</b> |
|----------------------------|----------------------------|-------------------------|----------------|-----------------|
| Aroclor 1221               | 250.00                     | 228                     | -8.8           | 20.00           |
| Aroclor 1221 [2C]          | 250.00                     | 239                     | -4.5           | 20.00           |
| Decachlorobiphenyl         | 40.000                     | 37.5                    | -6.4           | 20.00           |
| Tetrachlorometaxylene      | 40.000                     | 37.3                    | -6.8           | 20.00           |
| Decachlorobiphenyl [2C]    | 40.000                     | 39.5                    | -1.3           | 20.00           |
| Tetrachlorometaxylene [2C] | 40.000                     | 37.2                    | -7.1           | 20.00           |

\* Indicates values outside of QC limits

[2C] indicates second-column analyte.

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242328ECD7.D  
Data file 2: /230124.b/230124.b/01242328ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR2162 SCV  
Client ID:  
Injection Date: 24-JAN-2023 21:15  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.809   | -0.000 | 265357   | 5.685  | -0.001 | 170984   | 37.3   | 37.2 | 0.3           | Tetrachloro-m-xylene |
| 13.891  | -0.001 | 397332   | 14.119 | -0.001 | 326981   | 37.5   | 39.5 | 5.3           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 503473      | 0.0  |
| Hexabromobiphenyl  | 647433         | 991997      | 53.2 |

| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 340361      | 1.0  |
| Hexabromobiphenyl  | 382032         | 521975      | 36.6 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        |                          | ZB35 Col |        |        |        |            |  |
|--------------------------|-------|--------|--------|--------|--------------------------|----------|--------|--------|--------|------------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                   | Peak#    | RT     | Shift  | Area   | Amount     |  |
| Aroclor-1016             | 1     | 7.272  | 0.002  | 5326   | 28.5                     | 1        | 7.257  | 0.002  | 6708   | 36.3       |  |
| Aroclor-1016             | 2     | 7.664  | 0.013  | 11965  | 19.3                     | 2        | 7.856  | 0.005  | 7233   | 17.9       |  |
| Aroclor-1016             | 3     | 7.797  | 0.009  | 6015   | 21.1                     | 3        | 8.058  | 0.008  | 2997   | 18.2       |  |
| Aroclor-1016             | 4     | 8.410  | 0.006  | 3771   | 20.6                     | 4        | 8.308  | 0.002  | 2065   | 16.0       |  |
| Total CollAve (4 peaks): |       |        |        | 22.4   | Total Col2Ave (4 peaks): |          |        |        | 22.1   | RPD = 1    |  |
| Corrected Ave (3 peaks): |       |        |        | 20.3   | Corrected Ave (3 peaks): |          |        |        | 17.3   | RPD = 16   |  |
| Aroclor-1221             | 1     | 4.732  | -0.000 | 9097   | 244.5                    | 1        | 4.959  | -0.000 | 6157   | 246.8      |  |
| Aroclor-1221             | 2     | 6.133  | -0.000 | 16114  | 211.8                    | 2        | 6.297  | -0.001 | 12807  | 234.2      |  |
| Aroclor-1221             | 3     | 6.384  | 0.000  | 40299  | 228.1                    | 3        | 6.622  | -0.000 | 21707  | 235.2      |  |
| Total CollAve (3 peaks): |       |        |        | 228.1  | Total Col2Ave (3 peaks): |          |        |        | 238.7  | RPD = 5    |  |
| Corrected Ave: < 3 Peaks |       |        |        |        | Corrected Ave: < 3 Peaks |          |        |        |        |            |  |
| Aroclor-1232             | 1     | 4.732  | -0.001 | 9097   | 391.6                    | 1        | 4.959  | -0.001 | 6157   | 406.9      |  |
| Aroclor-1232             | 2     | 6.133  | 0.000  | 16114  | 307.8                    | 2        | 7.257  | 0.000  | 6708   | 79.2       |  |
| Aroclor-1232             | 3     | 7.664  | 0.005  | 11965  | 45.7                     | 3        | 7.856  | 0.001  | 7233   | 41.9       |  |
| Aroclor-1232             | 4     | 8.589  | 0.004  | 2837   | 25.3                     | 4        | 8.716  | 0.002  | 1869   | 39.0       |  |
| Total CollAve (4 peaks): |       |        |        | 192.6  | Total Col2Ave (4 peaks): |          |        |        | 141.7  | RPD = 30   |  |
| Corrected Ave (3 peaks): |       |        |        | 126.3  | Corrected Ave (3 peaks): |          |        |        | 53.4   | RPD = 81*  |  |
| Aroclor-1242             | 1     | 7.272  | 0.001  | 5326   | 34.5                     | 1        | 7.257  | 0.001  | 6708   | 45.1       |  |
| Aroclor-1242             | 2     | 7.664  | 0.008  | 11965  | 23.7                     | 2        | 7.856  | 0.003  | 7233   | 21.9       |  |
| Aroclor-1242             | 3     | 8.410  | 0.004  | 3771   | 25.2                     | 3        | 9.169  | 0.009  | 1956   | 18.9       |  |
| Aroclor-1242             | 4     | 8.589  | 0.007  | 2837   | 12.5                     | 4        | 9.544  | -0.043 | 5978   | 43.6       |  |
| Total CollAve (4 peaks): |       |        |        | 24.0   | Total Col2Ave (4 peaks): |          |        |        | 32.3   | RPD = 30   |  |
| Corrected Ave (3 peaks): |       |        |        | 20.5   | Corrected Ave (3 peaks): |          |        |        | 28.1   | RPD = 31   |  |
| Aroclor-1248             | 1     | 8.410  | 0.005  | 3771   | 15.0                     | 1        | 8.308  | 0.002  | 2065   | 13.4       |  |
| Aroclor-1248             | 2     | 8.589  | 0.008  | 2837   | 8.8                      | 2        | 8.716  | 0.004  | 1869   | 11.3       |  |
| Aroclor-1248             | 3     | 8.997  | -0.002 | 36022  | 58.6                     | 3        | 9.169  | 0.012  | 1956   | 9.7        |  |
| Aroclor-1248             | 4     | 9.305  | 0.011  | 30853  | 101.4                    | 4        | 9.544  | -0.038 | 5978   | 23.9       |  |
| Total CollAve (4 peaks): |       |        |        | 46.0   | Total Col2Ave (4 peaks): |          |        |        | 14.6   | RPD = 104* |  |
| Corrected Ave (3 peaks): |       |        |        | 27.5   | Corrected Ave (3 peaks): |          |        |        | 11.5   | RPD = 82*  |  |
| Aroclor-1254             | 1     | 9.305  | 0.006  | 30853  | 60.1                     | 1        | 9.451  | 0.003  | 17617  | 71.3       |  |
| Aroclor-1254             | 2     | 9.376  | -0.002 | 5370   | 24.5                     | 2        | 9.970  | 0.001  | 2849   | 14.3       |  |
| Aroclor-1254             | 3     | 9.673  | 0.003  | 5543   | 16.9                     | 3        | 10.146 | 0.026  | 88151  | 202.5      |  |
| Aroclor-1254             | 4     | 9.810  | 0.002  | 14544  | 22.6                     | 4        | 10.370 | -0.002 | 107074 | 245.9      |  |
| Aroclor-1254             | 5     | 10.121 | -0.056 | 180016 | 429.7                    | 5        | 10.567 | -0.002 | 141725 | 584.5      |  |
| Total CollAve (5 peaks): |       |        |        | 110.8  | Total Col2Ave (5 peaks): |          |        |        | 223.7  | RPD = 68*  |  |
| Corrected Ave (4 peaks): |       |        |        | 31.0   | Corrected Ave (4 peaks): |          |        |        | 133.5  | RPD = 125* |  |
| Aroclor-1260             | 1     | 11.044 | 0.001  | 310806 | 558.4                    | 1        | 11.652 | -0.001 | 187682 | 498.4      |  |
| Aroclor-1260             | 2     | 11.361 | 0.000  | 263161 | 460.0                    | 2        | 11.917 | -0.000 | 450612 | 473.0      |  |
| Aroclor-1260             | 3     | 11.735 | 0.000  | 629605 | 418.0                    | 3        | 12.433 | -0.003 | 206042 | 867.7      |  |
| Aroclor-1260             | 4     | 12.141 | 0.001  | 210012 | 269.9                    | 4        | 12.502 | -0.000 | 326457 | 529.5      |  |
| Aroclor-1260             | 5     | 12.244 | -0.000 | 268425 | 791.3                    | NS       | ---    |        |        | ----       |  |
| Total CollAve (5 peaks): |       |        |        | 499.5  | Total Col2Ave (4 peaks): |          |        |        | 592.1  | RPD = 17   |  |
| Corrected Ave (4 peaks): |       |        |        | 426.6  | Corrected Ave (3 peaks): |          |        |        | 500.3  | RPD = 16   |  |
| Aroclor-1262             | 1     | 10.828 | -0.005 | 171094 | 426.5                    | 1        | 11.200 | 0.000  | 219731 | 430.1      |  |
| Aroclor-1262             | 2     | 12.244 | -0.002 | 268425 | 423.9                    | 2        | 11.652 | -0.001 | 187682 | 432.0      |  |
| Aroclor-1262             | 3     | 12.319 | -0.002 | 291581 | 424.2                    | 3        | 12.433 | -0.001 | 206042 | 445.4      |  |
| Aroclor-1262             | 4     | 12.988 | -0.001 | 257735 | 411.5                    | 4        | 12.502 | -0.002 | 326457 | 440.6      |  |
| Total CollAve (4 peaks): |       |        |        | 421.5  | Total Col2Ave (4 peaks): |          |        |        | 437.0  | RPD = 4    |  |
| Corrected Ave (3 peaks): |       |        |        | 419.8  | Corrected Ave (3 peaks): |          |        |        | 434.3  | RPD = 3    |  |
| Aroclor-1268             | 1     | 12.244 | -0.001 | 268425 | 163.8                    | 1        | 12.433 | -0.000 | 206042 | 169.0      |  |
| Aroclor-1268             | 2     | 12.319 | 0.001  | 291581 | 178.4                    | 2        | 12.502 | 0.000  | 326457 | 251.7      |  |
| Aroclor-1268             | 3     | 12.725 | 0.026  | 108693 | 80.3                     | 3        | 12.892 | -0.001 | 10062  | 9.3        |  |
| Aroclor-1268             | 4     | 13.486 | -0.003 | 95646  | 23.8                     | 4        | 13.710 | 0.001  | 59437  | 17.8       |  |
| Total CollAve (4 peaks): |       |        |        | 111.6  | Total Col2Ave (4 peaks): |          |        |        | 112.0  | RPD = 0    |  |

Corrected Ave (3 peaks): 89.3      Corrected Ave (3 peaks): 65.4      RPD = 31

Total PCB Area Col1 (5.909 - 13.792) = 4409992      Col1 Total PCB = 0.8 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 2874073      Col2 Total PCB = 0.8 ppm\*

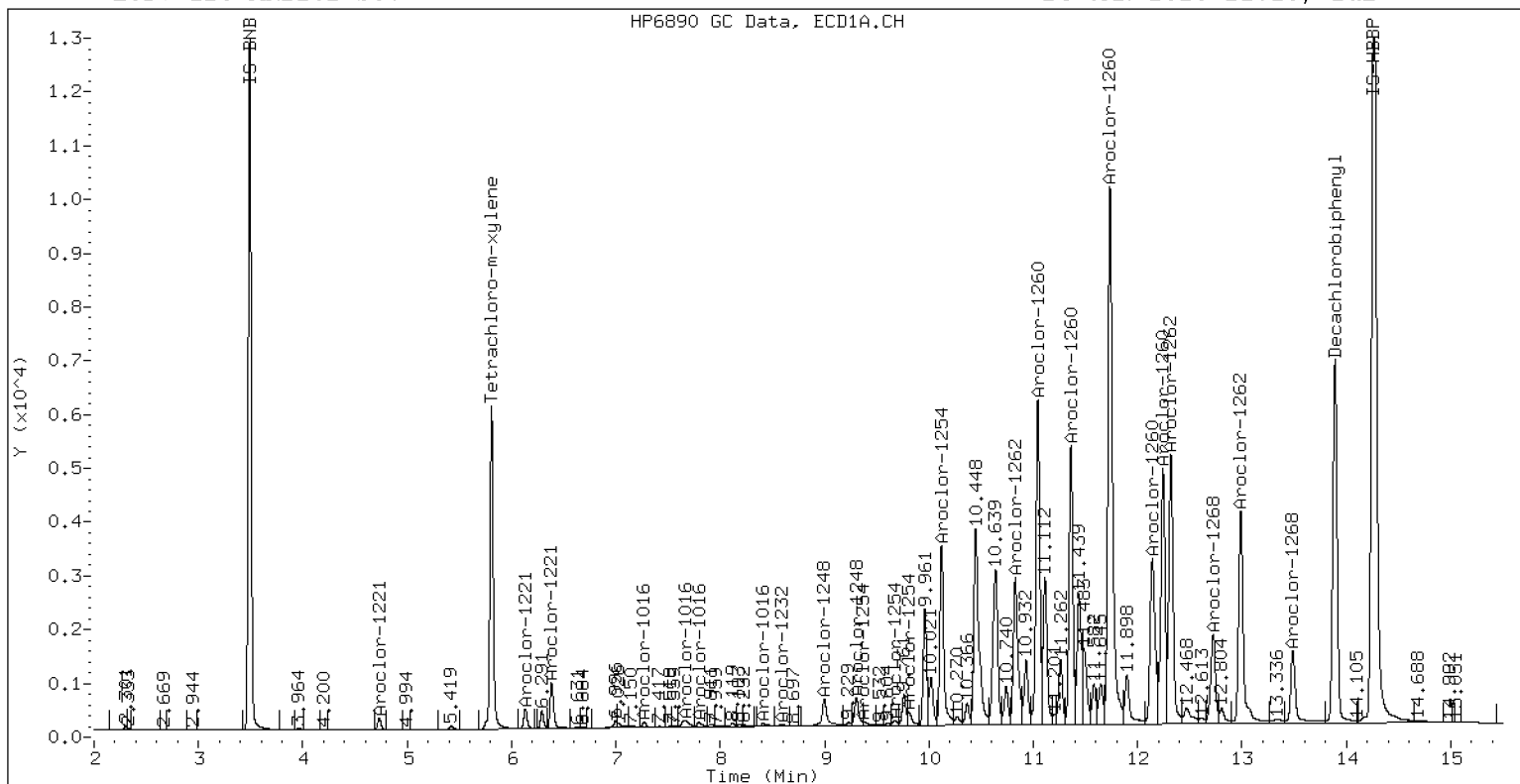
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

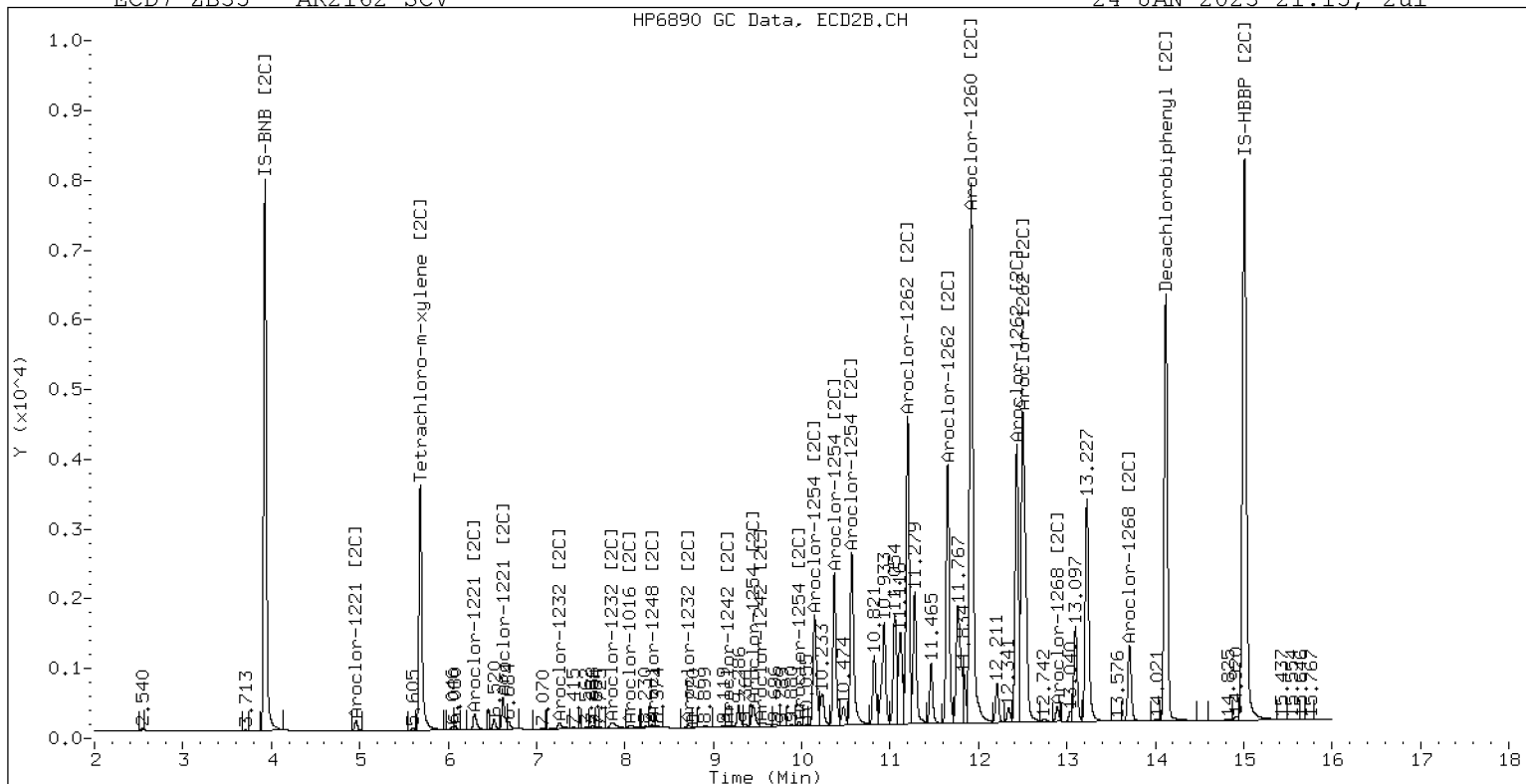
ECD7-ZB5 AR2162 SCV

24-JAN-2023 21:15, 2ul



ECD7-ZB35 AR2162 SCV

24-JAN-2023 21:15, 2ul







**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 8082A**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GA00061

**Laboratory ID:** SLA0281-SCV6

**Sequence:** SLA0281

**Sequence Name:** AR3268SCV6

**Standard ID:** K007660

| <b>ANALYTE</b>             | <b>EXPECTED<br/>(ug/L)</b> | <b>FOUND<br/>(ug/L)</b> | <b>% DRIFT</b> | <b>QC LIMIT</b> |
|----------------------------|----------------------------|-------------------------|----------------|-----------------|
| Aroclor 1232               | 250.00                     | 216                     | -13.7          | 20.00           |
| Aroclor 1232 [2C]          | 250.00                     | 239                     | -4.5           | 20.00           |
| Decachlorobiphenyl         | 40.000                     | 54.6                    | 36.5           | 20.00           |
| Tetrachlorometaxylene      | 40.000                     | 36.4                    | -9.1           | 20.00           |
| Decachlorobiphenyl [2C]    | 40.000                     | 57.9                    | 44.8           | 20.00           |
| Tetrachlorometaxylene [2C] | 40.000                     | 36.3                    | -9.2           | 20.00           |

\* Indicates values outside of QC limits

[2C] indicates second-column analyte.

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242329ECD7.D  
Data file 2: /230124.b/230124.b/01242329ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR3268 SCV  
Client ID:  
Injection Date: 24-JAN-2023 21:36  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.810  | 0.001         | 250455   | 5.687  | 0.000          | 162795   | 36.4       | 36.3        | 0.2 | Tetrachloro-m-xylene |
| 13.892 | 0.000         | 551946   | 14.120 | 0.000          | 461901   | 54.6       | 57.9        | 5.9 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 487061      | -3.2 |
| Hexabromobiphenyl  | 647433         | 944934      | 46.0 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 331721      | -1.5 |
| Hexabromobiphenyl  | 382032         | 502401      | 31.5 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |        |                  |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|------------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area   | Amount           |
| Aroclor-1016             | 1     | 7.272  | 0.002  | 19363  | 107.0    | 1                        | 7.256  | 0.001  | 19791  | 110.0            |
| Aroclor-1016             | 2     | 7.659  | 0.009  | 58630  | 97.8     | 2                        | 7.856  | 0.005  | 40139  | 101.8            |
| Aroclor-1016             | 3     | 7.794  | 0.006  | 28286  | 102.5    | 3                        | 8.055  | 0.005  | 17412  | 108.2            |
| Aroclor-1016             | 4     | 8.408  | 0.004  | 17373  | 97.9     | 4                        | 8.308  | 0.003  | 11962  | 94.8             |
| Total CollAve (4 peaks): |       |        |        | 101.3  |          | Total Col2Ave (4 peaks): |        |        |        | 103.7 RPD = 2    |
| Corrected Ave (3 peaks): |       |        |        | 99.4   |          | Corrected Ave (3 peaks): |        |        |        | 101.6 RPD = 2    |
| Aroclor-1221             | 1     | 4.735  | 0.002  | 5022   | 139.5    | 1                        | 4.961  | 0.002  | 3409   | 140.2            |
| Aroclor-1221             | 2     | 6.134  | 0.001  | 8987   | 122.1    | 2                        | 6.299  | 0.001  | 7677   | 144.1            |
| Aroclor-1221             | 3     | 6.385  | 0.001  | 29368  | 171.8    | 3                        | 6.624  | 0.001  | 16198  | 180.1            |
| Total CollAve (3 peaks): |       |        |        | 144.5  |          | Total Col2Ave (3 peaks): |        |        |        | 154.8 RPD = 7    |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |        |                  |
| Aroclor-1232             | 1     | 4.735  | 0.002  | 5022   | 223.5    | 1                        | 4.961  | 0.002  | 3409   | 231.1            |
| Aroclor-1232             | 2     | 6.134  | 0.001  | 8987   | 177.4    | 2                        | 7.256  | -0.001 | 19791  | 239.8            |
| Aroclor-1232             | 3     | 7.659  | 0.001  | 58630  | 231.5    | 3                        | 7.856  | 0.001  | 40139  | 238.8            |
| Aroclor-1232             | 4     | 8.585  | 0.000  | 24991  | 230.5    | 4                        | 8.715  | 0.001  | 11476  | 245.7            |
| Total CollAve (4 peaks): |       |        |        | 215.7  |          | Total Col2Ave (4 peaks): |        |        |        | 238.8 RPD = 10   |
| Corrected Ave (3 peaks): |       |        |        | 210.5  |          | Corrected Ave (3 peaks): |        |        |        | 236.6 RPD = 12   |
| Aroclor-1242             | 1     | 7.272  | 0.001  | 19363  | 129.8    | 1                        | 7.256  | 0.000  | 19791  | 136.4            |
| Aroclor-1242             | 2     | 7.659  | 0.004  | 58630  | 120.1    | 2                        | 7.856  | 0.002  | 40139  | 124.6            |
| Aroclor-1242             | 3     | 8.408  | 0.001  | 17373  | 119.8    | 3                        | 9.166  | 0.006  | 11813  | 117.1            |
| Aroclor-1242             | 4     | 8.585  | 0.003  | 24991  | 114.1    | 4                        | 9.595  | 0.009  | 16549  | 123.7            |
| Total CollAve (4 peaks): |       |        |        | 121.0  |          | Total Col2Ave (4 peaks): |        |        |        | 125.4 RPD = 4    |
| Corrected Ave (3 peaks): |       |        |        | 118.0  |          | Corrected Ave (3 peaks): |        |        |        | 121.8 RPD = 3    |
| Aroclor-1248             | 1     | 8.408  | 0.002  | 17373  | 71.3     | 1                        | 8.308  | 0.003  | 11962  | 79.8             |
| Aroclor-1248             | 2     | 8.585  | 0.005  | 24991  | 80.4     | 2                        | 8.715  | 0.003  | 11476  | 71.1             |
| Aroclor-1248             | 3     | 9.001  | 0.002  | 67631  | 113.8    | 3                        | 9.166  | 0.009  | 11813  | 59.9             |
| Aroclor-1248             | 4     | 9.293  | -0.001 | 30983  | 105.3    | 4                        | 9.595  | 0.014  | 16549  | 67.9             |
| Total CollAve (4 peaks): |       |        |        | 92.7   |          | Total Col2Ave (4 peaks): |        |        |        | 69.7 RPD = 28    |
| Corrected Ave (3 peaks): |       |        |        | 85.7   |          | Corrected Ave (3 peaks): |        |        |        | 66.3 RPD = 26    |
| Aroclor-1254             | 1     | 9.293  | -0.006 | 30983  | 62.4     | 1                        | 9.451  | 0.003  | 3749   | 15.6             |
| Aroclor-1254             | 2     | 9.381  | 0.003  | 9071   | 42.8     | 2                        | 9.974  | 0.005  | 2452   | 12.6             |
| Aroclor-1254             | 3     | 9.678  | 0.009  | 5199   | 16.3     | 3                        | 10.131 | 0.010  | 4718   | 11.1             |
| Aroclor-1254             | 4     | 9.820  | 0.012  | 8864   | 14.2     | 4                        | 10.389 | 0.018  | 4224   | 10.0             |
| Aroclor-1254             | 5     | 10.195 | 0.018  | 8085   | 19.9     | 5                        | 10.573 | 0.004  | 1573   | 6.7              |
| Total CollAve (5 peaks): |       |        |        | 31.1   |          | Total Col2Ave (5 peaks): |        |        |        | 11.2 RPD = 94*   |
| Corrected Ave (4 peaks): |       |        |        | 23.3   |          | Corrected Ave (4 peaks): |        |        |        | 10.1 RPD = 79*   |
| Aroclor-1260             | 1     | 11.050 | 0.006  | 66852  | 126.1    | 1                        | 11.647 | -0.006 | 57235  | 157.9            |
| Aroclor-1260             | 2     | 11.366 | 0.006  | 6269   | 11.5     | 2                        | 11.919 | 0.002  | 25368  | 27.7             |
| Aroclor-1260             | 3     | 11.741 | 0.007  | 41446  | 28.9     | 3                        | 12.434 | -0.002 | 262014 | 1146.4           |
| Aroclor-1260             | 4     | 12.052 | -0.088 | 2691   | 3.6      | 4                        | 12.502 | -0.000 | 277060 | 466.9            |
| Aroclor-1260             | 5     | 12.245 | 0.002  | 349286 | 1080.9   | NS                       | ---    |        |        | ----             |
| Total CollAve (5 peaks): |       |        |        | 250.2  |          | Total Col2Ave (4 peaks): |        |        |        | 449.7 RPD = 57*  |
| Corrected Ave (4 peaks): |       |        |        | 42.5   |          | Corrected Ave (3 peaks): |        |        |        | 217.5 RPD = 135* |
| Aroclor-1262             | 1     | 10.838 | 0.006  | 4520   | 11.8     | 1                        | 11.203 | 0.003  | 40576  | 82.5             |
| Aroclor-1262             | 2     | 12.245 | -0.000 | 349286 | 579.1    | 2                        | 11.647 | -0.006 | 57235  | 136.9            |
| Aroclor-1262             | 3     | 12.318 | -0.002 | 349715 | 534.1    | 3                        | 12.434 | -0.001 | 262014 | 588.4            |
| Aroclor-1262             | 4     | 12.988 | -0.001 | 141905 | 237.8    | 4                        | 12.502 | -0.002 | 277060 | 388.5            |
| Total CollAve (4 peaks): |       |        |        | 340.7  |          | Total Col2Ave (4 peaks): |        |        |        | 299.1 RPD = 13   |
| Corrected Ave (3 peaks): |       |        |        | 261.2  |          | Corrected Ave (3 peaks): |        |        |        | 202.6 RPD = 25   |
| Aroclor-1268             | 1     | 12.245 | 0.001  | 349286 | 223.8    | 1                        | 12.434 | 0.000  | 262014 | 223.3            |
| Aroclor-1268             | 2     | 12.318 | 0.000  | 349715 | 224.6    | 2                        | 12.502 | 0.000  | 277060 | 221.9            |
| Aroclor-1268             | 3     | 12.699 | 0.000  | 289328 | 224.3    | 3                        | 12.893 | -0.000 | 208928 | 201.0            |
| Aroclor-1268             | 4     | 13.490 | 0.001  | 849299 | 222.1    | 4                        | 13.710 | 0.002  | 725831 | 226.1            |
| Total CollAve (4 peaks): |       |        |        | 223.7  |          | Total Col2Ave (4 peaks): |        |        |        | 218.1 RPD = 3    |

Corrected Ave (3 peaks): 223.4      Corrected Ave (3 peaks): 215.4      RPD = 4

Total PCB Area Col1 (5.909 - 13.792) = 2866092      Col1 Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 2084481      Col2 Total PCB = 0.6 ppm\*

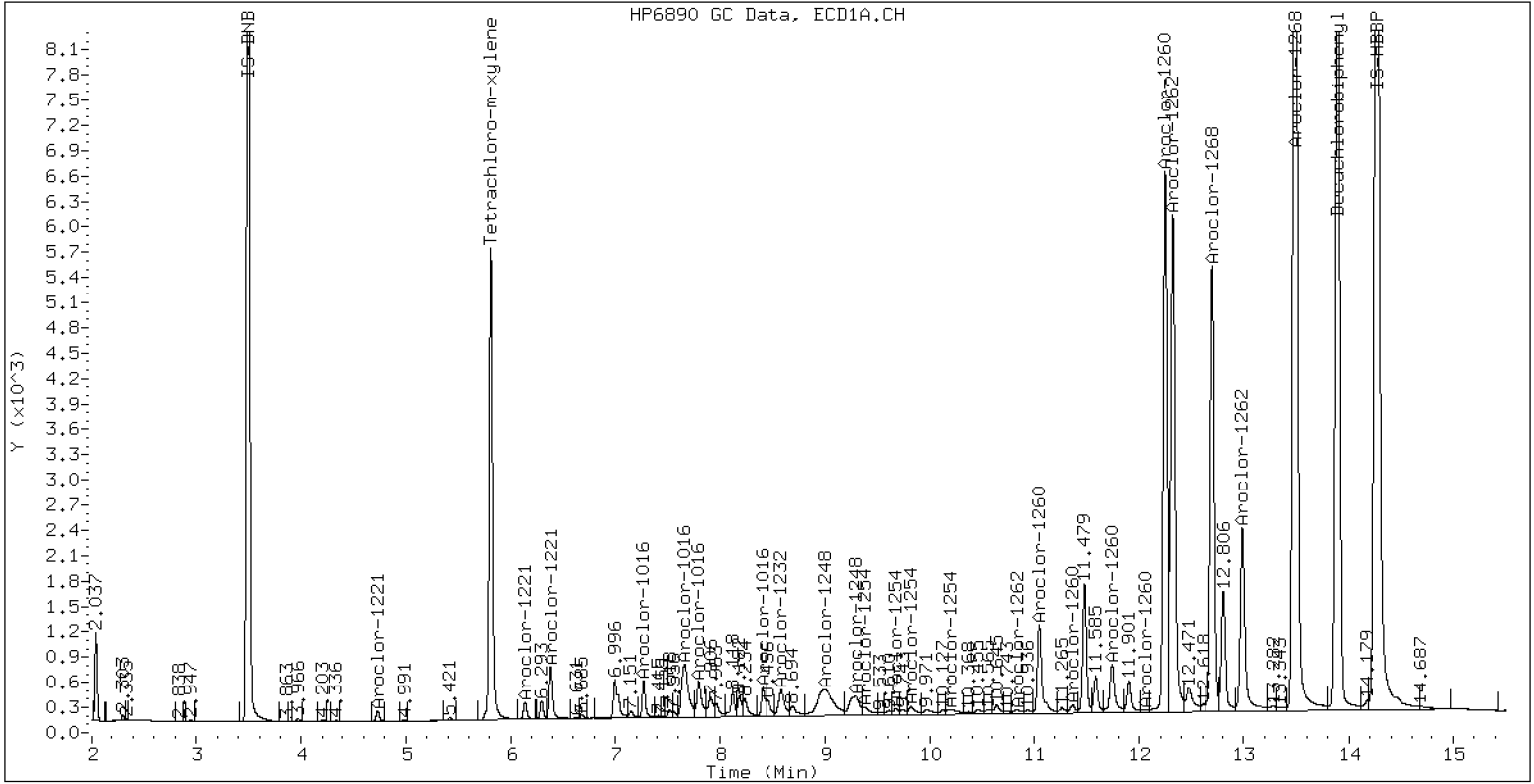
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR3268 SCV

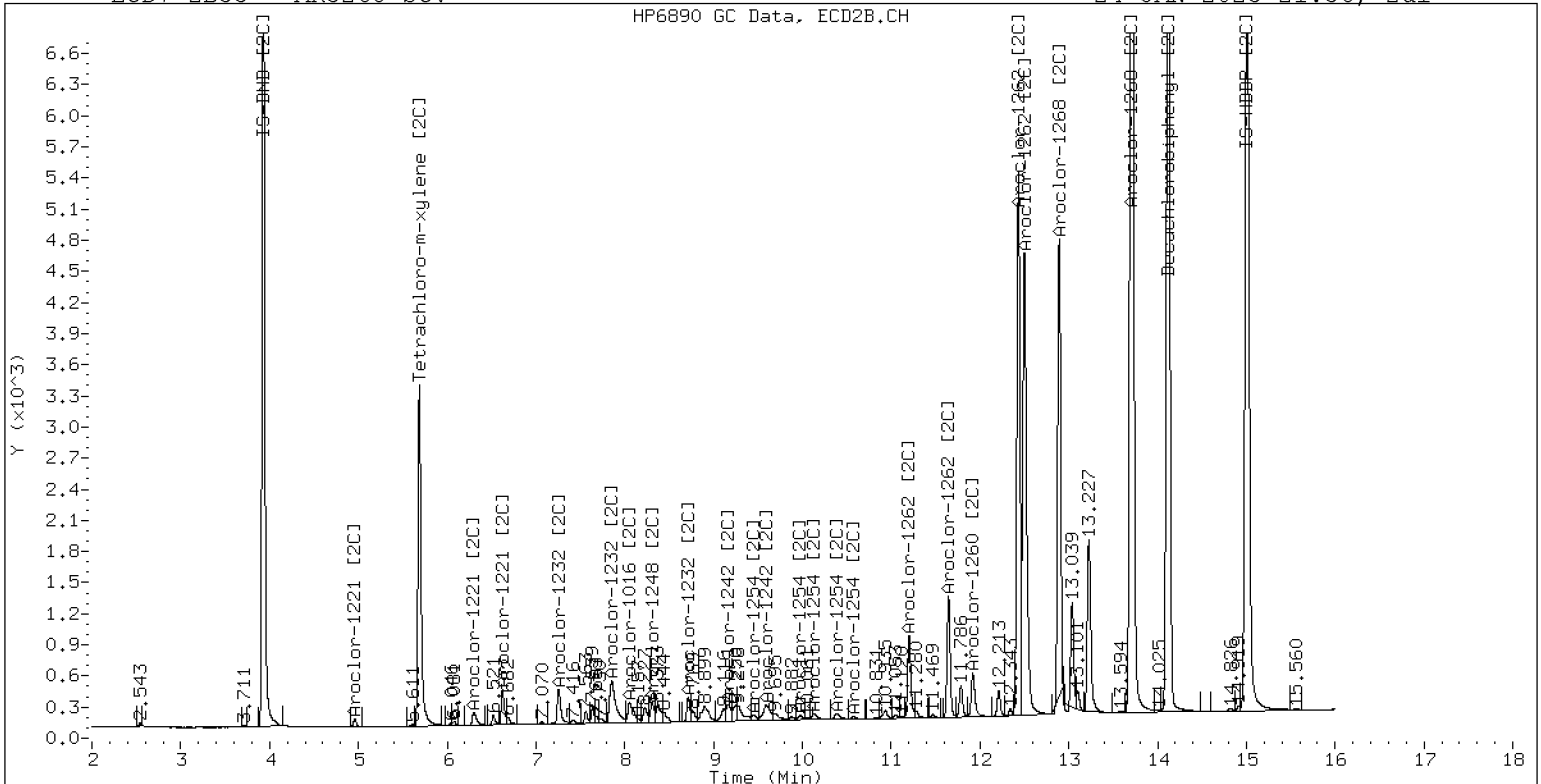
24-JAN-2023 21:36, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268 SCV

24-JAN-2023 21:36, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 8082A**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GE00022

**Laboratory ID:** SLE0079-SCV1

**Sequence:** SLE0079

**Sequence Name:** AR1660SCV1

**Standard ID:** L002065

| <b>ANALYTE</b>             | <b>EXPECTED<br/>(ug/L)</b> | <b>FOUND<br/>(ug/L)</b> | <b>% DRIFT</b> | <b>QC LIMIT</b> |
|----------------------------|----------------------------|-------------------------|----------------|-----------------|
| Aroclor 1016               | 250.00                     | 254                     | 1.4            | 20.00           |
| Aroclor 1016 [2C]          | 250.00                     | 248                     | -1.0           | 20.00           |
| Aroclor 1260               | 250.00                     | 285                     | 14.2           | 20.00           |
| Aroclor 1260 [2C]          | 250.00                     | 284                     | 13.6           | 20.00           |
| Decachlorobiphenyl         | 40.000                     | 36.9                    | -7.7           | 20.00           |
| Tetrachlorometaxylene      | 40.000                     | 36.9                    | -7.8           | 20.00           |
| Decachlorobiphenyl [2C]    | 40.000                     | 39.2                    | -1.9           | 20.00           |
| Tetrachlorometaxylene [2C] | 40.000                     | 37.2                    | -6.9           | 20.00           |

\* Indicates values outside of QC limits  
[2C] indicates second-column analyte.

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052332ECD7.D  
Data file 2: /230505.b/230505.b/05052332ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660SCV  
Client ID:  
Injection Date: 06-MAY-2023 03:16  
Report Date: 05/06/2023 12:06  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.742  | -0.000        | 356595   | 5.629  | 0.000          | 185340   | 36.9       | 37.2        | 1.0 | Tetrachloro-m-xylene |
| 13.842 | 0.002         | 347188   | 14.070 | 0.002          | 384711   | 36.9       | 39.2        | 6.1 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 642284      | 6.8 |
| Hexabromobiphenyl  | 876625         | 941356      | 7.4 |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 361711      | 3.6 |
| Hexabromobiphenyl  | 652984         | 690563      | 5.8 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |        |                 |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|-----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area   | Amount          |
| Aroclor-1016             | 1     | 7.213  | 0.000  | 61654  | 247.9    | 1                        | 7.205  | 0.001  | 50106  | 244.7           |
| Aroclor-1016             | 2     | 7.594  | -0.001 | 199228 | 256.2    | 2                        | 7.811  | 0.003  | 109839 | 251.7           |
| Aroclor-1016             | 3     | 7.734  | 0.001  | 89643  | 249.3    | 3                        | 8.009  | 0.004  | 48594  | 252.5           |
| Aroclor-1016             | 4     | 8.399  | 0.001  | 38714  | 261.0    | 4                        | 8.260  | 0.001  | 36878  | 241.2           |
| Total CollAve (4 peaks): |       |        |        | 253.6  |          | Total Col2Ave (4 peaks): |        |        |        | 247.5 RPD = 2   |
| Corrected Ave (3 peaks): |       |        |        | 251.1  |          | Corrected Ave (3 peaks): |        |        |        | 245.9 RPD = 2   |
| Aroclor-1221             | 1     | 4.663  | -0.000 | 436    | 9.7      | 1                        | ---    |        |        | 0.0             |
| Aroclor-1221             | 2     | 6.068  | -0.001 | 8521   | 94.0     | 2                        | 6.251  | 0.005  | 5766   | 104.3           |
| Aroclor-1221             | 3     | 6.320  | -0.001 | 41973  | 195.0    | 3                        | 6.572  | 0.000  | 23212  | 266.9           |
| Total CollAve (3 peaks): |       |        |        | 99.6   |          | Col2Ave: <3 Quant Peaks  |        |        |        |                 |
| Aroclor-1232             | 1     | 4.663  | -0.000 | 436    | 14.5     | 1                        | ---    |        |        | 0.0             |
| Aroclor-1232             | 2     | 6.068  | -0.002 | 8521   | 136.1    | 2                        | 7.205  | 0.000  | 50106  | 623.9           |
| Aroclor-1232             | 3     | 7.594  | -0.001 | 199228 | 667.9    | 3                        | 7.811  | -0.004 | 109839 | 680.8           |
| Aroclor-1232             | 4     | 8.526  | -0.001 | 85985  | 673.5    | 4                        | 8.667  | -0.003 | 34670  | 742.1           |
| Total CollAve (4 peaks): |       |        |        | 373.0  |          | Total Col2Ave (3 peaks): |        |        |        | 682.3 RPD = 59* |
| Corrected Ave (3 peaks): |       |        |        | 272.8  |          | Corrected Ave: < 3 Peaks |        |        |        |                 |
| Aroclor-1242             | 1     | 7.213  | 0.001  | 61654  | 304.6    | 1                        | 7.205  | 0.001  | 50106  | 310.0           |
| Aroclor-1242             | 2     | 7.594  | -0.001 | 199228 | 310.7    | 2                        | 7.811  | -0.002 | 109839 | 319.4           |
| Aroclor-1242             | 3     | 8.399  | 0.000  | 38714  | 312.1    | 3                        | 9.069  | -0.054 | 21513  | 195.1           |
| Aroclor-1242             | 4     | 8.526  | 0.001  | 85985  | 299.5    | 4                        | 9.537  | -0.013 | 1824   | 13.7            |
| Total CollAve (4 peaks): |       |        |        | 306.7  |          | Total Col2Ave (4 peaks): |        |        |        | 209.6 RPD = 38  |
| Corrected Ave (3 peaks): |       |        |        | 304.9  |          | Corrected Ave (3 peaks): |        |        |        | 172.9 RPD = 55* |
| Aroclor-1248             | 1     | 8.399  | -0.000 | 38714  | 236.2    | 1                        | 8.260  | 0.000  | 36878  | 214.3           |
| Aroclor-1248             | 2     | 8.526  | 0.001  | 85985  | 201.8    | 2                        | 8.667  | -0.001 | 34670  | 190.7           |
| Aroclor-1248             | 3     | 8.941  | -0.003 | 81615  | 99.6     | 3                        | 9.069  | -0.051 | 21513  | 101.0           |
| Aroclor-1248             | 4     | 9.249  | 0.006  | 52526  | 125.8    | 4                        | 9.537  | -0.008 | 1824   | 7.1             |
| Total CollAve (4 peaks): |       |        |        | 165.8  |          | Total Col2Ave (4 peaks): |        |        |        | 128.3 RPD = 26  |
| Corrected Ave (3 peaks): |       |        |        | 142.4  |          | Corrected Ave (3 peaks): |        |        |        | 99.6 RPD = 35   |
| Aroclor-1254             | 1     | 9.249  | 0.003  | 52526  | 79.6     | 1                        | 9.405  | 0.001  | 24726  | 90.0            |
| Aroclor-1254             | 2     | ---    |        |        | 0.0      | 2                        | 9.537  | 0.038  | 1824   | 11.2            |
| Aroclor-1254             | 3     | 9.619  | 0.001  | 7081   | 16.6     | 3                        | 9.926  | 0.002  | 3128   | 14.0            |
| Aroclor-1254             | 4     | 9.756  | 0.001  | 21856  | 26.2     | 4                        | 10.101 | 0.023  | 62581  | 128.7           |
| Aroclor-1254             | 5     | 10.069 | -0.057 | 159796 | 317.0    | 5                        | 10.324 | -0.004 | 85433  | 177.1           |
| Total CollAve (4 peaks): |       |        |        | 109.8  |          | Total Col2Ave (5 peaks): |        |        |        | 84.2 RPD = 26   |
| Corrected Ave (3 peaks): |       |        |        | 40.8   |          | Corrected Ave (4 peaks): |        |        |        | 61.0 RPD = 40   |
| Aroclor-1260             | 1     | 10.995 | 0.001  | 145767 | 292.8    | 1                        | 11.605 | -0.000 | 99761  | 272.0           |
| Aroclor-1260             | 2     | 11.311 | 0.001  | 142028 | 289.1    | 2                        | 11.872 | 0.000  | 273505 | 285.1           |
| Aroclor-1260             | 3     | 11.686 | 0.000  | 354468 | 288.1    | 3                        | 12.389 | 0.001  | 70545  | 296.8           |
| Aroclor-1260             | 4     | 12.092 | 0.002  | 161281 | 267.6    | 4                        | 12.455 | -0.000 | 180783 | 282.1           |
| Aroclor-1260             | 5     | 12.194 | 0.001  | 76105  | 289.6    | NS                       | ---    |        |        | ----            |
| Total CollAve (5 peaks): |       |        |        | 285.5  |          | Total Col2Ave (4 peaks): |        |        |        | 284.0 RPD = 1   |
| Corrected Ave (4 peaks): |       |        |        | 283.6  |          | Corrected Ave (3 peaks): |        |        |        | 279.8 RPD = 1   |
| Aroclor-1262             | 1     | 10.777 | -0.001 | 215850 | 506.9    | 1                        | 11.153 | -0.001 | 104059 | 186.0           |
| Aroclor-1262             | 2     | 12.194 | -0.000 | 76105  | 127.1    | 2                        | 11.605 | 0.001  | 99761  | 211.4           |
| Aroclor-1262             | 3     | 12.271 | 0.001  | 94628  | 147.0    | 3                        | 12.389 | 0.003  | 70545  | 136.8           |
| Aroclor-1262             | 4     | 12.939 | -0.000 | 78852  | 150.3    | 4                        | 12.455 | -0.001 | 180783 | 215.1           |
| Total CollAve (4 peaks): |       |        |        | 232.8  |          | Total Col2Ave (4 peaks): |        |        |        | 187.3 RPD = 22  |
| Corrected Ave (3 peaks): |       |        |        | 141.5  |          | Corrected Ave (3 peaks): |        |        |        | 178.1 RPD = 23  |
| Aroclor-1268             | 1     | 12.194 | -0.001 | 76105  | 50.7     | 1                        | 12.389 | 0.004  | 70545  | 54.0            |
| Aroclor-1268             | 2     | 12.271 | 0.003  | 94628  | 63.5     | 2                        | 12.455 | 0.003  | 180783 | 128.7           |
| Aroclor-1268             | 3     | 12.675 | 0.026  | 38830  | 32.4     | 3                        | 12.844 | 0.001  | 3082   | 2.6             |
| Aroclor-1268             | 4     | 13.440 | 0.003  | 19986  | 5.8      | 4                        | 13.661 | -0.002 | 14882  | 3.9             |
| Total CollAve (4 peaks): |       |        |        | 38.1   |          | Total Col2Ave (4 peaks): |        |        |        | 47.3 RPD = 21   |
| Corrected Ave (3 peaks): |       |        |        | 29.6   |          | Corrected Ave (3 peaks): |        |        |        | 20.1 RPD = 38   |



Total PCB Area Col1 (5.842 - 13.740) = 3657118 Col1 Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 2255286 Col2 Total PCB = 0.5 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 8082A**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GE00022

**Laboratory ID:** SLE0079-SCV2

**Sequence:** SLE0079

**Sequence Name:** AR1242SCV2

**Standard ID:** L003970

| <b>ANALYTE</b>             | <b>EXPECTED<br/>(ug/L)</b> | <b>FOUND<br/>(ug/L)</b> | <b>% DRIFT</b> | <b>QC LIMIT</b> |
|----------------------------|----------------------------|-------------------------|----------------|-----------------|
| Aroclor 1242               | 250.00                     | 237                     | -5.1           | 20.00           |
| Aroclor 1242 [2C]          | 250.00                     | 230                     | -7.9           | 20.00           |
| Decachlorobiphenyl         | 40.000                     | 40.9                    | 2.2            | 20.00           |
| Tetrachlorometaxylene      | 40.000                     | 32.8                    | -18.1          | 20.00           |
| Decachlorobiphenyl [2C]    | 40.000                     | 44.0                    | 10.0           | 20.00           |
| Tetrachlorometaxylene [2C] | 40.000                     | 33.4                    | -16.5          | 20.00           |

\* Indicates values outside of QC limits

[2C] indicates second-column analyte.

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052333ECD7.D  
Data file 2: /230505.b/230505.b/05052333ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1242SCV  
Client ID:  
Injection Date: 06-MAY-2023 03:36  
Report Date: 05/06/2023 12:06  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |                | ZB35 Col |                | ZB5    | ZB35   | RPD  | Compound/Flag |     |                      |
|---------|----------------|----------|----------------|--------|--------|------|---------------|-----|----------------------|
| RT      | Shift Response | RT       | Shift Response | on col | on col |      |               |     |                      |
| 5.744   | 0.002          | 319899   | 5.630          | 0.002  | 167866 | 32.8 | 33.4          | 1.9 | Tetrachloro-m-xylene |
| 13.842  | 0.002          | 398699   | 14.069         | 0.001  | 434332 | 40.9 | 44.0          | 7.3 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 648004      | 7.7  |
| Hexabromobiphenyl  | 876625         | 976327      | 11.4 |

| Column 2           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 365379      | 4.6 |
| Hexabromobiphenyl  | 652984         | 695394      | 6.5 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |       |                 |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|-------|-----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area  | Amount          |
| Aroclor-1016             | 1     | 7.213  | 0.001  | 47446  | 189.1    | 1                        | 7.205  | 0.001  | 36469 | 176.3           |
| Aroclor-1016             | 2     | 7.594  | -0.000 | 147684 | 188.2    | 2                        | 7.814  | 0.007  | 77885 | 176.7           |
| Aroclor-1016             | 3     | 7.735  | 0.002  | 67175  | 185.2    | 3                        | 8.012  | 0.006  | 38400 | 197.5           |
| Aroclor-1016             | 4     | 8.398  | 0.000  | 30565  | 204.3    | 4                        | 8.261  | 0.002  | 27551 | 178.4           |
| Total CollAve (4 peaks): |       |        |        | 191.7  |          | Total Col2Ave (4 peaks): |        |        |       | 182.2 RPD = 5   |
| Corrected Ave (3 peaks): |       |        |        | 187.5  |          | Corrected Ave (3 peaks): |        |        |       | 177.1 RPD = 6   |
| Aroclor-1221             | 1     | 4.666  | 0.002  | 870    | 19.1     | 1                        | ---    |        |       | 0.0             |
| Aroclor-1221             | 2     | 6.069  | 0.000  | 7118   | 77.8     | 2                        | 6.257  | 0.011  | 4359  | 78.0            |
| Aroclor-1221             | 3     | 6.322  | 0.001  | 32969  | 151.8    | 3                        | 6.573  | 0.001  | 16609 | 189.0           |
| Total CollAve (3 peaks): |       |        |        | 82.9   |          | Col2Ave: <3 Quant Peaks  |        |        |       |                 |
| Aroclor-1232             | 1     | 4.666  | 0.002  | 870    | 28.7     | 1                        | ---    |        |       | 0.0             |
| Aroclor-1232             | 2     | 6.069  | 0.000  | 7118   | 112.7    | 2                        | 7.205  | -0.000 | 36469 | 449.5           |
| Aroclor-1232             | 3     | 7.594  | -0.001 | 147684 | 490.8    | 3                        | 7.814  | -0.001 | 77885 | 477.9           |
| Aroclor-1232             | 4     | 8.526  | -0.000 | 70601  | 548.1    | 4                        | 8.668  | -0.001 | 25417 | 538.5           |
| Total CollAve (4 peaks): |       |        |        | 295.1  |          | Total Col2Ave (3 peaks): |        |        |       | 488.7 RPD = 49* |
| Corrected Ave (3 peaks): |       |        |        | 210.7  |          | Corrected Ave: < 3 Peaks |        |        |       |                 |
| Aroclor-1242             | 1     | 7.213  | 0.001  | 47446  | 232.4    | 1                        | 7.205  | 0.001  | 36469 | 223.3           |
| Aroclor-1242             | 2     | 7.594  | -0.000 | 147684 | 228.2    | 2                        | 7.814  | 0.002  | 77885 | 224.2           |
| Aroclor-1242             | 3     | 8.398  | 0.000  | 30565  | 244.2    | 3                        | 9.124  | 0.001  | 25864 | 232.2           |
| Aroclor-1242             | 4     | 8.526  | 0.002  | 70601  | 243.8    | 4                        | 9.552  | 0.001  | 32437 | 241.7           |
| Total CollAve (4 peaks): |       |        |        | 237.2  |          | Total Col2Ave (4 peaks): |        |        |       | 230.4 RPD = 3   |
| Corrected Ave (3 peaks): |       |        |        | 234.8  |          | Corrected Ave (3 peaks): |        |        |       | 226.6 RPD = 4   |
| Aroclor-1248             | 1     | 8.398  | -0.001 | 30565  | 184.8    | 1                        | 8.261  | 0.001  | 27551 | 158.5           |
| Aroclor-1248             | 2     | 8.526  | 0.002  | 70601  | 164.3    | 2                        | 8.668  | 0.001  | 25417 | 138.4           |
| Aroclor-1248             | 3     | 8.946  | 0.002  | 172847 | 209.1    | 3                        | 9.124  | 0.004  | 25864 | 120.2           |
| Aroclor-1248             | 4     | 9.243  | -0.001 | 87363  | 207.3    | 4                        | 9.552  | 0.006  | 32437 | 125.7           |
| Total CollAve (4 peaks): |       |        |        | 191.4  |          | Total Col2Ave (4 peaks): |        |        |       | 135.7 RPD = 34  |
| Corrected Ave (3 peaks): |       |        |        | 185.5  |          | Corrected Ave (3 peaks): |        |        |       | 128.1 RPD = 37  |
| Aroclor-1254             | 1     | 9.243  | -0.004 | 87363  | 131.2    | 1                        | 9.406  | 0.002  | 13247 | 47.7            |
| Aroclor-1254             | 2     | 9.326  | 0.001  | 28949  | 96.7     | 2                        | 9.552  | 0.053  | 32437 | 196.7           |
| Aroclor-1254             | 3     | 9.622  | 0.004  | 20780  | 48.3     | 3                        | 9.927  | 0.003  | 10002 | 44.5            |
| Aroclor-1254             | 4     | 9.762  | 0.006  | 35470  | 42.1     | 4                        | 10.082 | 0.005  | 19933 | 40.6            |
| Aroclor-1254             | 5     | 10.140 | 0.015  | 28075  | 55.2     | 5                        | 10.341 | 0.013  | 19432 | 39.9            |
| Total CollAve (5 peaks): |       |        |        | 74.7   |          | Total Col2Ave (5 peaks): |        |        |       | 73.9 RPD = 1    |
| Corrected Ave (4 peaks): |       |        |        | 60.6   |          | Corrected Ave (4 peaks): |        |        |       | 43.2 RPD = 34   |
| Aroclor-1260             | 1     | 10.998 | 0.005  | 3609   | 7.0      | 1                        | 11.618 | 0.012  | 2137  | 5.8             |
| Aroclor-1260             | 2     | 11.317 | 0.007  | 3837   | 7.5      | 2                        | 11.879 | 0.007  | 1437  | 1.5             |
| Aroclor-1260             | 3     | 11.765 | 0.080  | 33905  | 26.6     | 3                        | 12.382 | -0.006 | 12460 | 52.1            |
| Aroclor-1260             | 4     | 12.097 | 0.007  | 9099   | 14.6     | 4                        | ---    |        |       | 0.0             |
| Aroclor-1260             | 5     | 12.272 | 0.079  | 2060   | 7.6      | NS                       | ---    |        |       | ---             |
| Total CollAve (5 peaks): |       |        |        | 12.6   |          | Total Col2Ave (3 peaks): |        |        |       | 19.8 RPD = 44*  |
| Corrected Ave (4 peaks): |       |        |        | 9.2    |          | Corrected Ave: < 3 Peaks |        |        |       |                 |
| Aroclor-1262             | 1     | 10.787 | 0.009  | 24040  | 54.4     | 1                        | 11.078 | -0.075 | 7864  | 14.0            |
| Aroclor-1262             | 2     | 12.272 | 0.077  | 2060   | 3.3      | 2                        | 11.618 | 0.013  | 2137  | 4.5             |
| Aroclor-1262             | 3     | ---    |        |        | 0.0      | 3                        | 12.382 | -0.004 | 12460 | 24.0            |
| Aroclor-1262             | 4     | 12.937 | -0.002 | 16041  | 29.5     | 4                        | ---    |        |       | 0.0             |
| Total CollAve (3 peaks): |       |        |        | 29.1   |          | Total Col2Ave (3 peaks): |        |        |       | 14.1 RPD = 69*  |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |       |                 |
| Aroclor-1268             | 1     | 12.272 | 0.076  | 2060   | 1.3      | 1                        | 12.382 | -0.003 | 12460 | 9.5             |
| Aroclor-1268             | 2     | ---    |        |        | 0.0      | 2                        | ---    |        |       | 0.0             |
| Aroclor-1268             | 3     | 12.649 | 0.001  | 4324   | 3.5      | 3                        | 12.845 | 0.002  | 951   | 0.8             |
| Aroclor-1268             | 4     | 13.442 | 0.005  | 15801  | 4.4      | 4                        | 13.628 | -0.035 | 6512  | 1.7             |
| Total CollAve (3 peaks): |       |        |        | 3.1    |          | Total Col2Ave (3 peaks): |        |        |       | 4.0 RPD = 25    |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |       |                 |

Total PCB Area Col1 (5.842 - 13.740) = 1489022 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 667658 Col2 Total PCB = 0.2 ppm\*

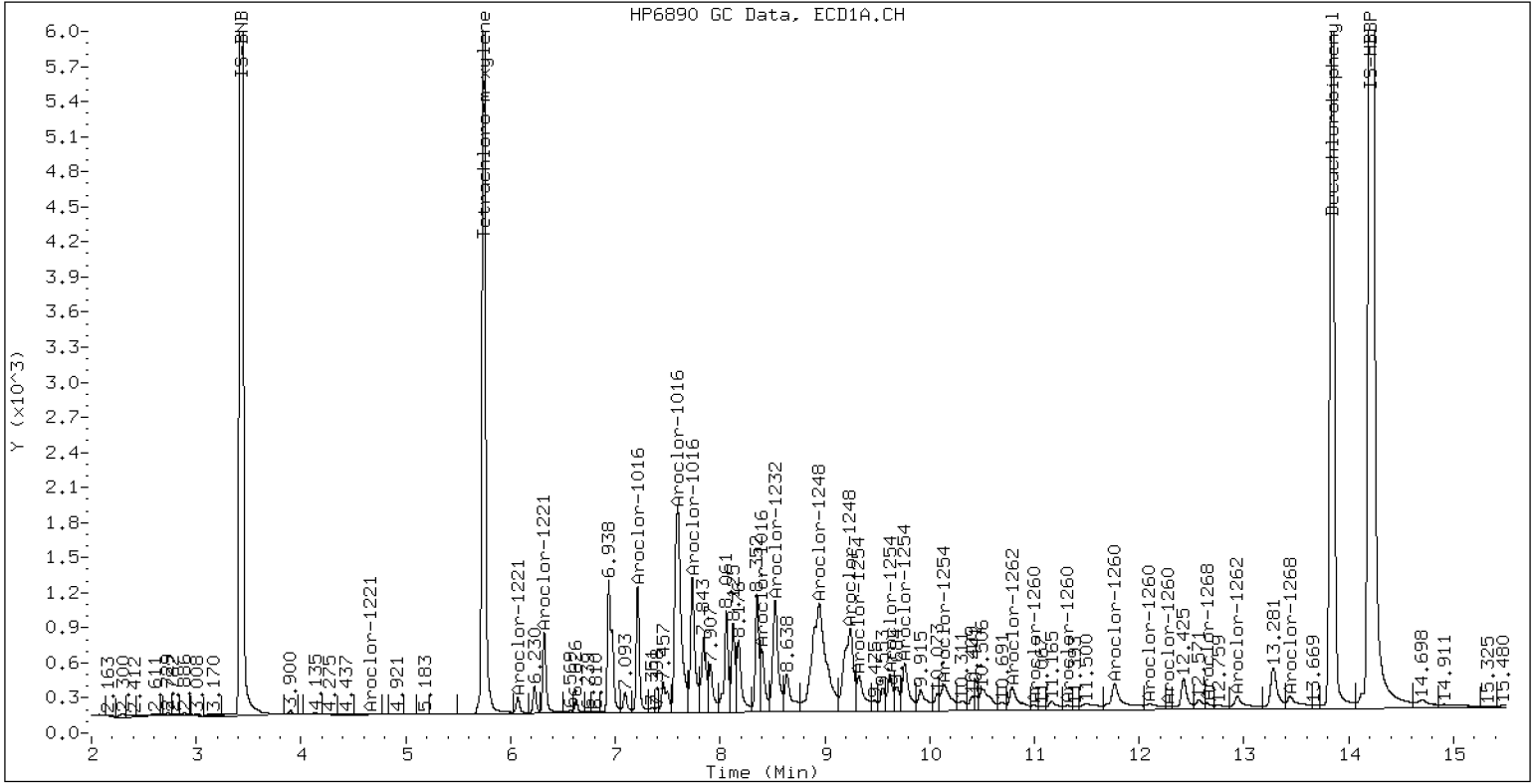
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV

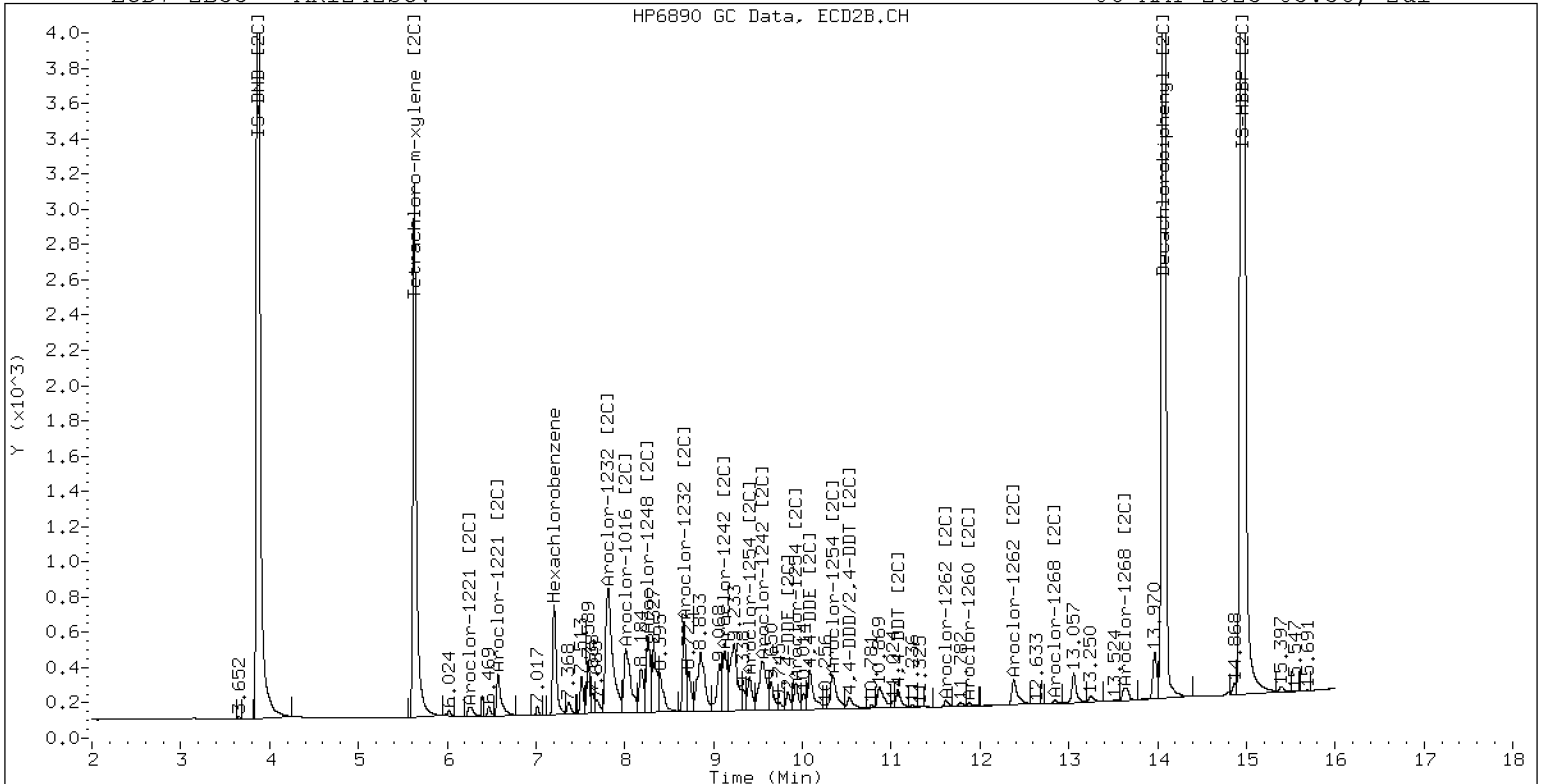
06-MAY-2023 03:36, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV

06-MAY-2023 03:36, 2ul

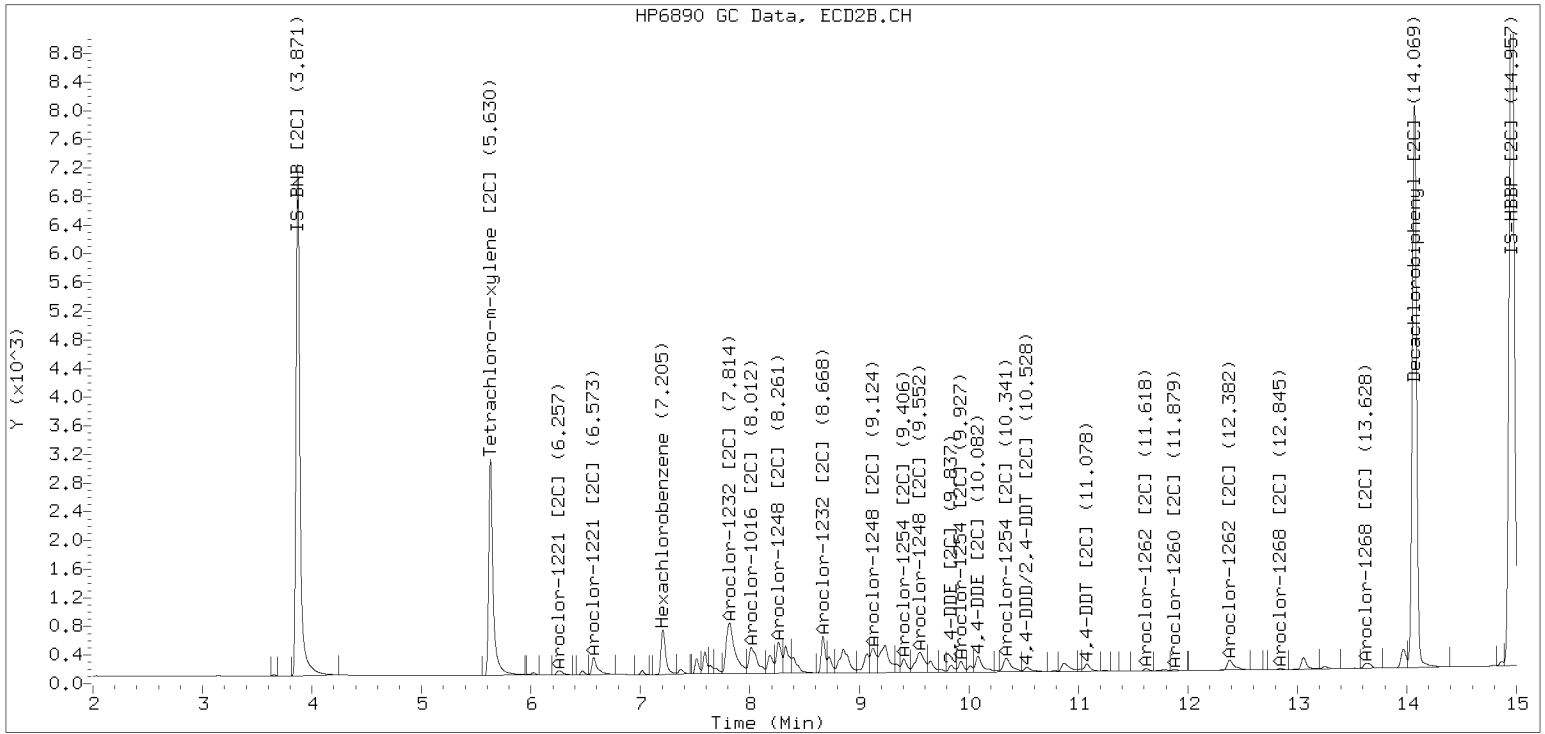


ZB-35 Manual Integration: NO

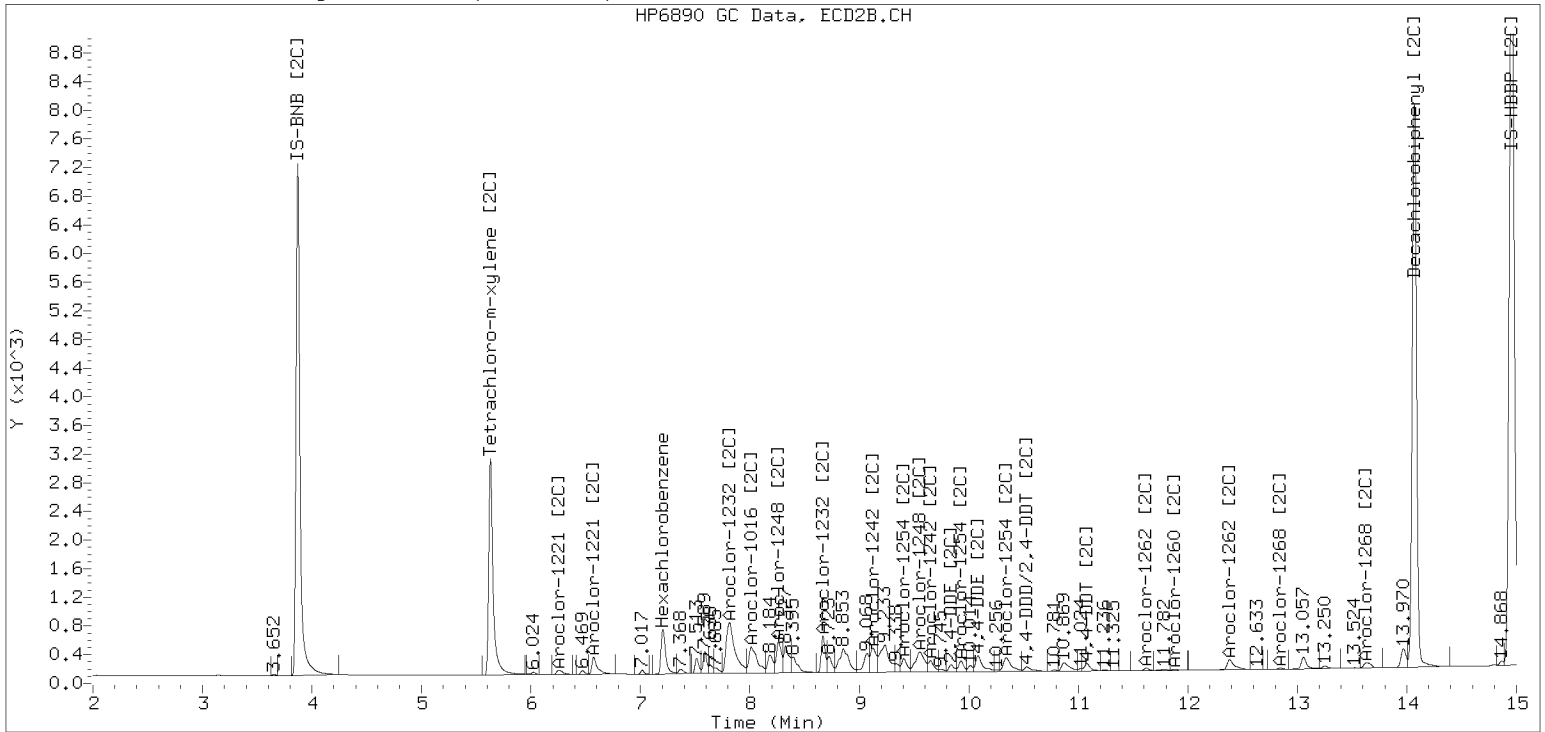
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230505.b/230505.b/05052333ECD7.D Injection Date: 06-MAY-2023

Manual Integration (After)



Processed Integration (Before)







**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 8082A**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GE00022

**Laboratory ID:** SLE0079-SCV3

**Sequence:** SLE0079

**Sequence Name:** AR1248SCV3

**Standard ID:** L002066

| <b>ANALYTE</b>             | <b>EXPECTED<br/>(ug/L)</b> | <b>FOUND<br/>(ug/L)</b> | <b>% DRIFT</b> | <b>QC LIMIT</b> |
|----------------------------|----------------------------|-------------------------|----------------|-----------------|
| Aroclor 1248               | 250.00                     | 251                     | 0.5            | 20.00           |
| Aroclor 1248 [2C]          | 250.00                     | 249                     | -0.3           | 20.00           |
| Decachlorobiphenyl         | 40.000                     | 35.7                    | -10.8          | 20.00           |
| Tetrachlorometaxylene      | 40.000                     | 36.8                    | -8.0           | 20.00           |
| Decachlorobiphenyl [2C]    | 40.000                     | 38.0                    | -5.0           | 20.00           |
| Tetrachlorometaxylene [2C] | 40.000                     | 37.7                    | -5.7           | 20.00           |

\* Indicates values outside of QC limits

[2C] indicates second-column analyte.

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052334ECD7.D  
Data file 2: /230505.b/230505.b/05052334ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1248SCV  
Client ID:  
Injection Date: 06-MAY-2023 03:57  
Report Date: 05/06/2023 12:07  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | ZB5 Col Response | RT     | ZB35 Col Shift | ZB35 Col Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|------------------|--------|----------------|-------------------|------------|-------------|-----|----------------------|
| 5.741  | -0.001        | 356328           | 5.629  | 0.000          | 186552            | 36.8       | 37.7        | 2.5 | Tetrachloro-m-xylene |
| 13.842 | 0.001         | 339452           | 14.070 | 0.002          | 373861            | 35.7       | 38.0        | 6.2 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 643038      | 6.9 |
| Hexabromobiphenyl  | 876625         | 952051      | 8.6 |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 359604      | 3.0 |
| Hexabromobiphenyl  | 652984         | 692982      | 6.1 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |       |                |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|-------|----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area  | Amount         |
| Aroclor-1016             | 1     | 7.212  | 0.000  | 19871  | 79.8     | 1                        | 7.203  | -0.001 | 18843 | 92.6           |
| Aroclor-1016             | 2     | 7.589  | -0.006 | 95111  | 122.2    | 2                        | 7.812  | 0.005  | 52352 | 120.7          |
| Aroclor-1016             | 3     | 7.736  | 0.003  | 37565  | 104.4    | 3                        | 8.012  | 0.006  | 8263  | 43.2           |
| Aroclor-1016             | 4     | 8.399  | 0.002  | 41542  | 279.7    | 4                        | 8.260  | 0.001  | 42833 | 281.8          |
| Total CollAve (4 peaks): |       |        |        | 146.5  |          | Total Col2Ave (4 peaks): |        |        |       | 134.6 RPD = 9  |
| Corrected Ave (3 peaks): |       |        |        | 102.1  |          | Corrected Ave (3 peaks): |        |        |       | 85.5 RPD = 18  |
| Aroclor-1221             | 1     | ---    |        |        | 0.0      | 1                        | ---    |        |       | 0.0            |
| Aroclor-1221             | 2     | 6.066  | -0.003 | 351    | 3.9      | 2                        | 6.275  | 0.029  | 1573  | 28.6           |
| Aroclor-1221             | 3     | 6.320  | -0.001 | 3509   | 16.3     | 3                        | 6.576  | 0.004  | 967   | 11.2           |
| CollAve: <3 Quant Peaks  |       |        |        |        |          | Col2Ave: <3 Quant Peaks  |        |        |       |                |
| Aroclor-1232             | 1     | ---    |        |        | 0.0      | 1                        | ---    |        |       | 0.0            |
| Aroclor-1232             | 2     | 6.066  | -0.003 | 351    | 5.6      | 2                        | 7.203  | -0.001 | 18843 | 236.0          |
| Aroclor-1232             | 3     | 7.589  | -0.006 | 95111  | 318.5    | 3                        | 7.812  | -0.002 | 52352 | 326.4          |
| Aroclor-1232             | 4     | 8.524  | -0.002 | 105782 | 827.6    | 4                        | 8.667  | -0.002 | 44962 | 968.0          |
| Total CollAve (3 peaks): |       |        |        | 383.9  |          | Total Col2Ave (3 peaks): |        |        |       | 510.1 RPD = 28 |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |       |                |
| Aroclor-1242             | 1     | 7.212  | 0.000  | 19871  | 98.1     | 1                        | 7.203  | -0.000 | 18843 | 117.2          |
| Aroclor-1242             | 2     | 7.589  | -0.006 | 95111  | 148.1    | 2                        | 7.812  | -0.000 | 52352 | 153.1          |
| Aroclor-1242             | 3     | 8.399  | 0.001  | 41542  | 334.5    | 3                        | 9.120  | -0.003 | 52681 | 480.6          |
| Aroclor-1242             | 4     | 8.524  | -0.000 | 105782 | 368.1    | 4                        | 9.548  | -0.002 | 63343 | 479.5          |
| Total CollAve (4 peaks): |       |        |        | 237.2  |          | Total Col2Ave (4 peaks): |        |        |       | 307.6 RPD = 26 |
| Corrected Ave (3 peaks): |       |        |        | 193.6  |          | Corrected Ave (3 peaks): |        |        |       | 250.0 RPD = 25 |
| Aroclor-1248             | 1     | 8.399  | 0.001  | 41542  | 253.1    | 1                        | 8.260  | -0.001 | 42833 | 250.4          |
| Aroclor-1248             | 2     | 8.524  | -0.000 | 105782 | 248.0    | 2                        | 8.667  | 0.000  | 44962 | 248.8          |
| Aroclor-1248             | 3     | 8.944  | -0.000 | 206928 | 252.3    | 3                        | 9.120  | -0.000 | 52681 | 248.7          |
| Aroclor-1248             | 4     | 9.242  | -0.001 | 105227 | 251.7    | 4                        | 9.548  | 0.002  | 63343 | 249.4          |
| Total CollAve (4 peaks): |       |        |        | 251.3  |          | Total Col2Ave (4 peaks): |        |        |       | 249.3 RPD = 1  |
| Corrected Ave (3 peaks): |       |        |        | 250.6  |          | Corrected Ave (3 peaks): |        |        |       | 249.0 RPD = 1  |
| Aroclor-1254             | 1     | 9.242  | -0.004 | 105227 | 159.2    | 1                        | 9.404  | 0.000  | 25835 | 94.6           |
| Aroclor-1254             | 2     | 9.324  | -0.001 | 51326  | 172.8    | 2                        | 9.548  | 0.049  | 63343 | 390.3          |
| Aroclor-1254             | 3     | 9.619  | 0.001  | 41394  | 97.0     | 3                        | 9.925  | 0.001  | 22609 | 102.1          |
| Aroclor-1254             | 4     | 9.759  | 0.003  | 72223  | 86.4     | 4                        | 10.079 | 0.001  | 43816 | 90.7           |
| Aroclor-1254             | 5     | 10.135 | 0.010  | 49936  | 98.9     | 5                        | 10.345 | 0.016  | 42513 | 88.7           |
| Total CollAve (5 peaks): |       |        |        | 122.9  |          | Total Col2Ave (5 peaks): |        |        |       | 153.3 RPD = 22 |
| Corrected Ave (4 peaks): |       |        |        | 110.4  |          | Corrected Ave (4 peaks): |        |        |       | 94.0 RPD = 16  |
| Aroclor-1260             | 1     | 10.998 | 0.005  | 1863   | 3.7      | 1                        | 11.617 | 0.011  | 2599  | 7.1            |
| Aroclor-1260             | 2     | 11.314 | 0.004  | 1152   | 2.3      | 2                        | 11.877 | 0.005  | 1951  | 2.0            |
| Aroclor-1260             | 3     | 11.695 | 0.009  | 1829   | 1.5      | 3                        | 12.389 | 0.001  | 857   | 3.6            |
| Aroclor-1260             | 4     | 12.097 | 0.007  | 1266   | 2.1      | 4                        | 12.458 | 0.003  | 1302  | 2.0            |
| Aroclor-1260             | 5     | 12.195 | 0.002  | 464    | 1.7      | NS                       | ---    |        |       | ----           |
| Total CollAve (5 peaks): |       |        |        | 2.3    |          | Total Col2Ave (4 peaks): |        |        |       | 3.7 RPD = 48*  |
| Corrected Ave (4 peaks): |       |        |        | 1.9    |          | Corrected Ave (3 peaks): |        |        |       | 2.5 RPD = 29   |
| Aroclor-1262             | 1     | 10.784 | 0.005  | 15405  | 35.8     | 1                        | 11.077 | -0.077 | 9003  | 16.0           |
| Aroclor-1262             | 2     | 12.195 | 0.000  | 464    | 0.8      | 2                        | 11.617 | 0.012  | 2599  | 5.5            |
| Aroclor-1262             | 3     | 12.271 | 0.002  | 489    | 0.8      | 3                        | 12.389 | 0.003  | 857   | 1.7            |
| Aroclor-1262             | 4     | 12.940 | 0.001  | 1638   | 3.1      | 4                        | 12.458 | 0.002  | 1302  | 1.5            |
| Total CollAve (4 peaks): |       |        |        | 10.1   |          | Total Col2Ave (4 peaks): |        |        |       | 6.2 RPD = 48*  |
| Corrected Ave (3 peaks): |       |        |        | 1.5    |          | Corrected Ave (3 peaks): |        |        |       | 2.9 RPD = 61*  |
| Aroclor-1268             | 1     | 12.195 | -0.001 | 464    | 0.3      | 1                        | 12.389 | 0.004  | 857   | 0.7            |
| Aroclor-1268             | 2     | 12.271 | 0.003  | 489    | 0.3      | 2                        | 12.458 | 0.006  | 1302  | 0.9            |
| Aroclor-1268             | 3     | 12.649 | 0.001  | 1831   | 1.5      | 3                        | 12.845 | 0.002  | 676   | 0.6            |
| Aroclor-1268             | 4     | 13.443 | 0.006  | 5387   | 1.6      | 4                        | 13.661 | -0.003 | 2707  | 0.7            |
| Total CollAve (4 peaks): |       |        |        | 0.9    |          | Total Col2Ave (4 peaks): |        |        |       | 0.7 RPD = 26   |
| Corrected Ave (3 peaks): |       |        |        | 0.7    |          | Corrected Ave (3 peaks): |        |        |       | 0.6 RPD = 11   |

Total PCB Area Col1 (5.842 - 13.740) = 1634238 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 876760 Col2 Total PCB = 0.2 ppm\*

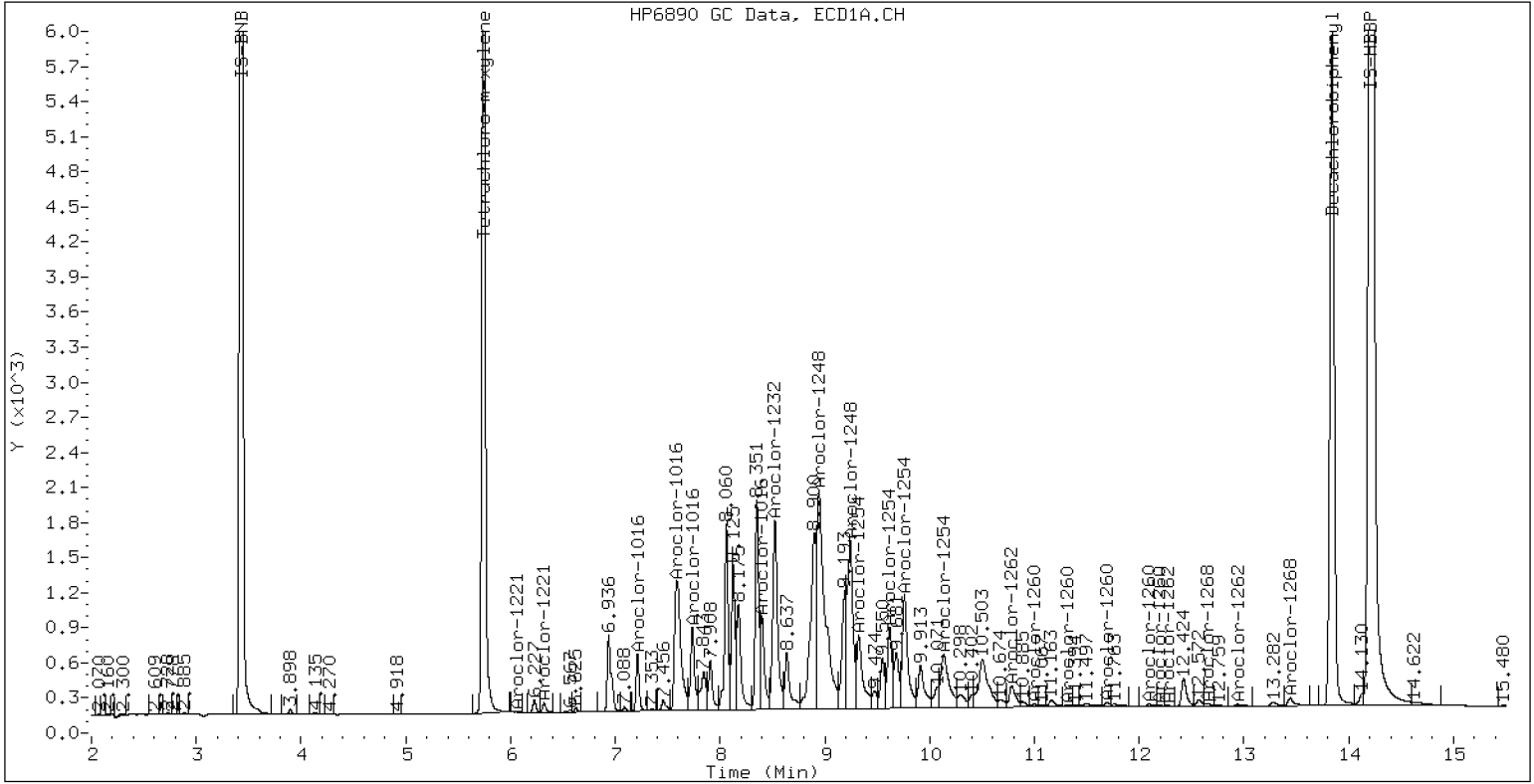
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV

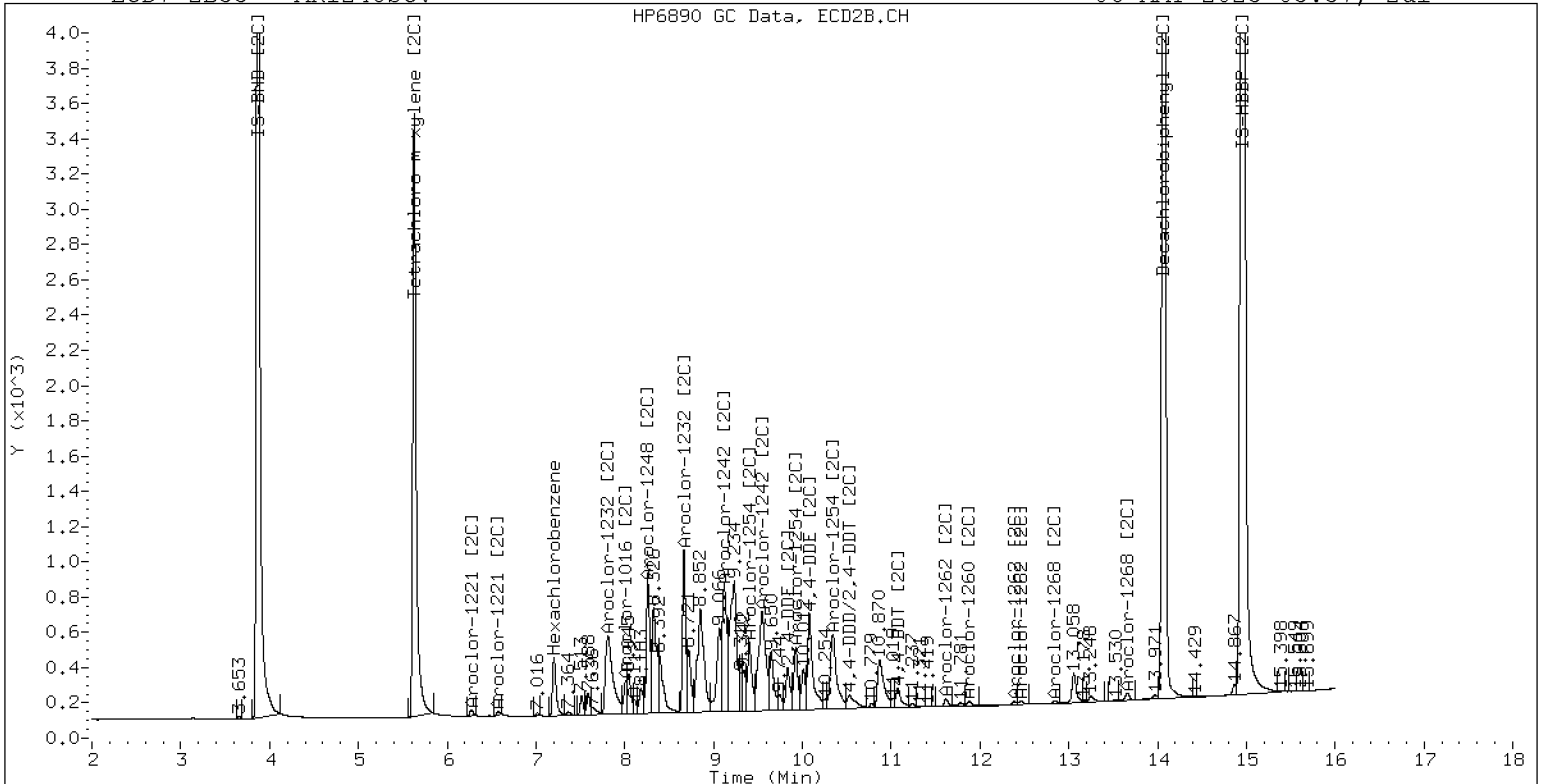
06-MAY-2023 03:57, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV

06-MAY-2023 03:57, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 8082A**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GE00022

**Laboratory ID:** SLE0079-SCV4

**Sequence:** SLE0079

**Sequence Name:** AR1254SCV4

**Standard ID:** L002067

| <b>ANALYTE</b>             | <b>EXPECTED<br/>(ug/L)</b> | <b>FOUND<br/>(ug/L)</b> | <b>% DRIFT</b> | <b>QC LIMIT</b> |
|----------------------------|----------------------------|-------------------------|----------------|-----------------|
| Aroclor 1254               | 250.00                     | 239                     | -4.3           | 20.00           |
| Aroclor 1254 [2C]          | 250.00                     | 241                     | -3.8           | 20.00           |
| Decachlorobiphenyl         | 40.000                     | 36.0                    | -10.1          | 20.00           |
| Tetrachlorometaxylene      | 40.000                     | 37.6                    | -6.0           | 20.00           |
| Decachlorobiphenyl [2C]    | 40.000                     | 38.5                    | -3.8           | 20.00           |
| Tetrachlorometaxylene [2C] | 40.000                     | 38.3                    | -4.2           | 20.00           |

\* Indicates values outside of QC limits

[2C] indicates second-column analyte.

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052335ECD7.D  
Data file 2: /230505.b/230505.b/05052335ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1254SCV  
Client ID:  
Injection Date: 06-MAY-2023 04:18  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col<br>Shift | Response | RT     | ZB35 Col<br>Shift | Response | ZB5<br>on col | ZB35<br>on col | RPD | Compound/Flag        |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.743  | 0.001            | 368022   | 5.631  | 0.002             | 192033   | 37.6          | 38.3           | 2.0 | Tetrachloro-m-xylene |
| 13.843 | 0.002            | 352066   | 14.070 | 0.002             | 385384   | 36.0          | 38.5           | 6.8 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 650234      | 8.1  |
| Hexabromobiphenyl  | 876625         | 980276      | 11.8 |

| Column 2           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 364142      | 4.3 |
| Hexabromobiphenyl  | 652984         | 705291      | 8.0 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        |        | ZB35 Col                                 |        |        |        |        |
|--------------------------|-------|--------|--------|--------|--------|--|--------|--------|--------|--------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount | Peak#                                    | RT     | Shift  | Area   | Amount |
| Aroclor-1016             | 1     | 7.214  | 0.002  | 635    | 2.5    | 1  | ---    |        |        | 0.0    |
| Aroclor-1016             | 2     | 7.590  | -0.004 | 2512   | 3.2    | 2  | ---    |        |        | 0.0    |
| Aroclor-1016             | 3     | 7.738  | 0.005  | 1594   | 4.4    | 3  | ---    |        |        | 0.0    |
| Aroclor-1016             | 4     | 8.351  | -0.047 | 31774  | 211.6  | 4  | ---    |        |        | 0.0    |
| Total CollAve (4 peaks): |       |        |        | 55.4   |        | Col2Ave: <3 Quant Peaks                  |        |        |        |        |
| Aroclor-1221             | 1     | ---    |        |        | 0.0    | 1  | ---    |        |        | 0.0    |
| Aroclor-1221             | 2     | 6.052  | -0.018 | 242    | 2.6    | 2  | ---    |        |        | 0.0    |
| Aroclor-1221             | 3     | 6.322  | 0.001  | 427    | 2.0    | 3  | ---    |        |        | 0.0    |
| CollAve: <3 Quant Peaks  |       |        |        |        |        | Col2Ave: <3 Quant Peaks                  |        |        |        |        |
| Aroclor-1232             | 1     | ---    |        |        | 0.0    | 1  | ---    |        |        | 0.0    |
| Aroclor-1232             | 2     | 6.052  | -0.018 | 242    | 3.8    | 2  | ---    |        |        | 0.0    |
| Aroclor-1232             | 3     | 7.590  | -0.005 | 2512   | 8.3    | 3  | ---    |        |        | 0.0    |
| Aroclor-1232             | 4     | 8.528  | 0.001  | 13950  | 107.9  | 4  | ---    |        |        | 0.0    |
| Total CollAve (3 peaks): |       |        |        | 40.0   |        | Col2Ave: <3 Quant Peaks                  |        |        |        |        |
| Aroclor-1242             | 1     | 7.214  | 0.002  | 635    | 3.1    | 1  | ---    |        |        | 0.0    |
| Aroclor-1242             | 2     | 7.590  | -0.005 | 2512   | 3.9    | 2  | ---    |        |        | 0.0    |
| Aroclor-1242             | 3     | 8.351  | -0.047 | 31774  | 253.0  | 3  | 9.125  | 0.002  | 23963  | 215.9  |
| Aroclor-1242             | 4     | 8.528  | 0.004  | 13950  | 48.0   | 4  | 9.649  | 0.099  | 23982  | 179.3  |
| Total CollAve (4 peaks): |       |        |        | 77.0   |        | Col2Ave: <3 Quant Peaks                  |        |        |        |        |
| Aroclor-1248             | 1     | 8.351  | -0.048 | 31774  | 191.4  | 1  | 8.260  | -0.000 | 23490  | 135.6  |
| Aroclor-1248             | 2     | 8.528  | 0.004  | 13950  | 32.3   | 2  | 8.669  | 0.002  | 16693  | 91.2   |
| Aroclor-1248             | 3     | 8.941  | -0.003 | 154338 | 186.1  | 3  | 9.125  | 0.005  | 23963  | 111.7  |
| Aroclor-1248             | 4     | 9.246  | 0.003  | 158369 | 374.6  | 4  | 9.499  | -0.047 | 38716  | 150.5  |
| Total CollAve (4 peaks): |       |        |        | 196.1  |        | Total Col2Ave (4 peaks): 122.3 RPD = 46* |        |        |        |        |
| Corrected Ave (3 peaks): |       |        |        | 136.6  |        | Corrected Ave (3 peaks): 112.8 RPD = 19  |        |        |        |        |
| Aroclor-1254             | 1     | 9.246  | -0.001 | 158369 | 237.0  | 1  | 9.404  | 0.000  | 67493  | 244.0  |
| Aroclor-1254             | 2     | 9.325  | -0.000 | 72386  | 241.1  | 2  | 9.499  | -0.000 | 38716  | 235.6  |
| Aroclor-1254             | 3     | 9.617  | -0.001 | 103602 | 240.1  | 3  | 9.925  | 0.001  | 53972  | 240.7  |
| Aroclor-1254             | 4     | 9.756  | 0.000  | 201259 | 238.2  | 4  | 10.079 | 0.001  | 116950 | 239.0  |
| Aroclor-1254             | 5     | 10.127 | 0.001  | 122207 | 239.5  | 5  | 10.327 | -0.001 | 118439 | 243.9  |
| Total CollAve (5 peaks): |       |        |        | 239.2  |        | Total Col2Ave (5 peaks): 240.6 RPD = 1   |        |        |        |        |
| Corrected Ave (4 peaks): |       |        |        | 238.7  |        | Corrected Ave (4 peaks): 239.8 RPD = 0   |        |        |        |        |
| Aroclor-1260             | 1     | 10.994 | 0.001  | 13538  | 26.1   | 1  | 11.615 | 0.009  | 33465  | 89.3   |
| Aroclor-1260             | 2     | 11.313 | 0.003  | 13900  | 27.2   | 2  | 11.876 | 0.004  | 25534  | 26.1   |
| Aroclor-1260             | 3     | 11.689 | 0.004  | 32548  | 25.4   | 3  | 12.404 | 0.016  | 1811   | 7.5    |
| Aroclor-1260             | 4     | 12.093 | 0.003  | 25285  | 40.3   | 4  | 12.458 | 0.002  | 14842  | 22.7   |
| Aroclor-1260             | 5     | 12.273 | 0.079  | 2534   | 9.3    | NS                                       | ---    |        |        | ---    |
| Total CollAve (5 peaks): |       |        |        | 25.6   |        | Total Col2Ave (4 peaks): 36.4 RPD = 35   |        |        |        |        |
| Corrected Ave (4 peaks): |       |        |        | 22.0   |        | Corrected Ave (3 peaks): 18.7 RPD = 16   |        |        |        |        |
| Aroclor-1262             | 1     | 10.779 | 0.000  | 210018 | 473.6  | 1  | 11.073 | -0.081 | 114323 | 200.0  |
| Aroclor-1262             | 2     | 12.273 | 0.078  | 2534   | 4.1    | 2  | 11.615 | 0.010  | 33465  | 69.4   |
| Aroclor-1262             | 3     | ---    |        |        | 0.0    | 3  | 12.404 | 0.018  | 1811   | 3.4    |
| Aroclor-1262             | 4     | 12.939 | 0.001  | 1830   | 3.3    | 4  | 12.458 | 0.002  | 14842  | 17.3   |
| Total CollAve (3 peaks): |       |        |        | 160.3  |        | Total Col2Ave (4 peaks): 72.6 RPD = 75*  |        |        |        |        |
| Corrected Ave: < 3 Peaks |       |        |        |        |        | Corrected Ave (3 peaks): 30.1            |        |        |        |        |
| Aroclor-1268             | 1     | 12.273 | 0.077  | 2534   | 1.6    | 1  | 12.404 | 0.019  | 1811   | 1.4    |
| Aroclor-1268             | 2     | ---    |        |        | 0.0    | 2  | 12.458 | 0.005  | 14842  | 10.3   |
| Aroclor-1268             | 3     | 12.654 | 0.006  | 2669   | 2.1    | 3  | 12.847 | 0.004  | 835    | 0.7    |
| Aroclor-1268             | 4     | 13.442 | 0.004  | 6266   | 1.8    | 4  | 13.662 | -0.001 | 2350   | 0.6    |
| Total CollAve (3 peaks): |       |        |        | 1.8    |        | Total Col2Ave (4 peaks): 3.2 RPD = 55*   |        |        |        |        |
| Corrected Ave: < 3 Peaks |       |        |        |        |        | Corrected Ave (3 peaks): 0.9             |        |        |        |        |



Total PCB Area Col1 (5.842 - 13.740) = 2123119 Col1 Total PCB = 0.3 ppm\*  
Total PCB Area Col2 (5.728 - 13.968) = 1146487 Col2 Total PCB = 0.3 ppm\*

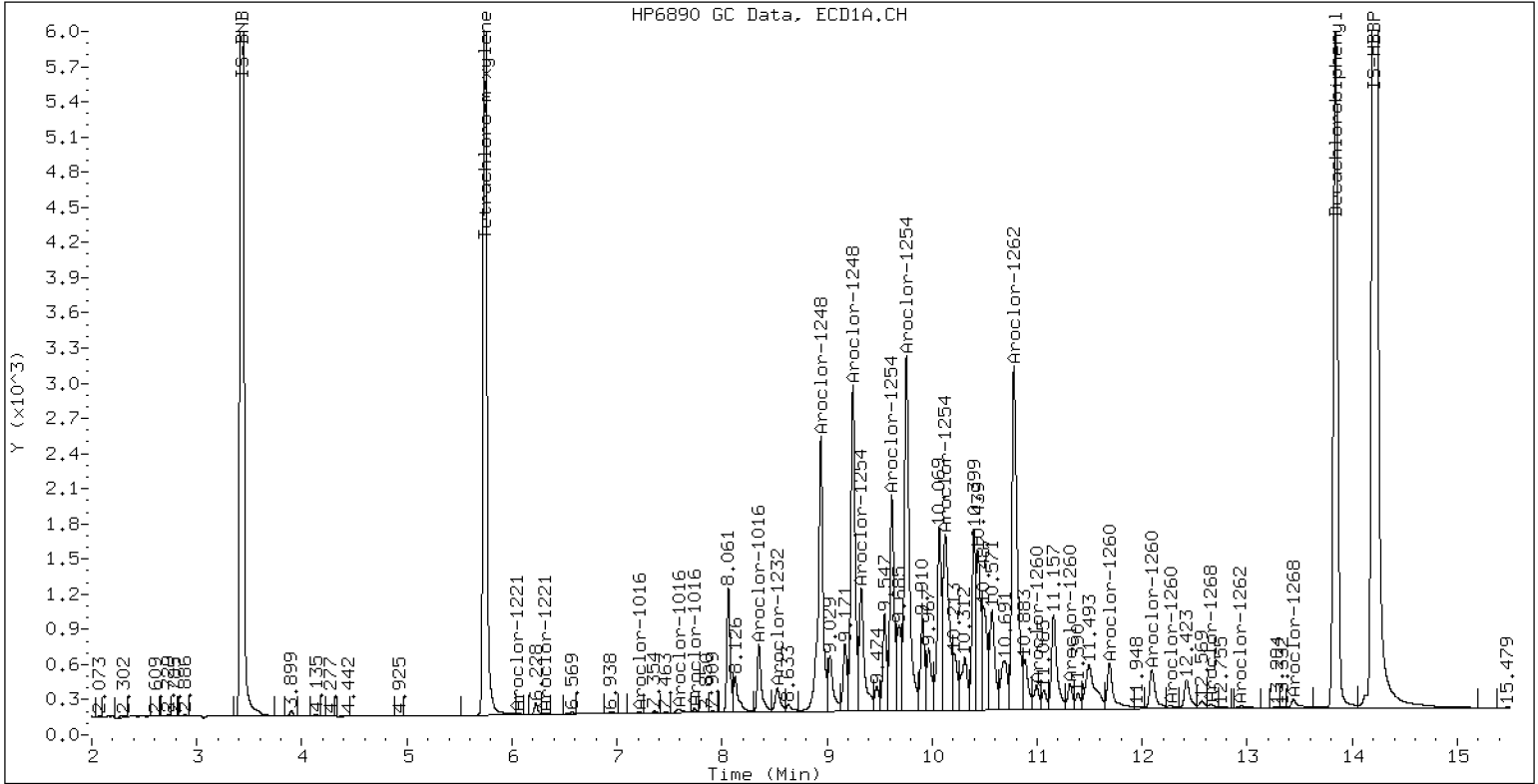
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV

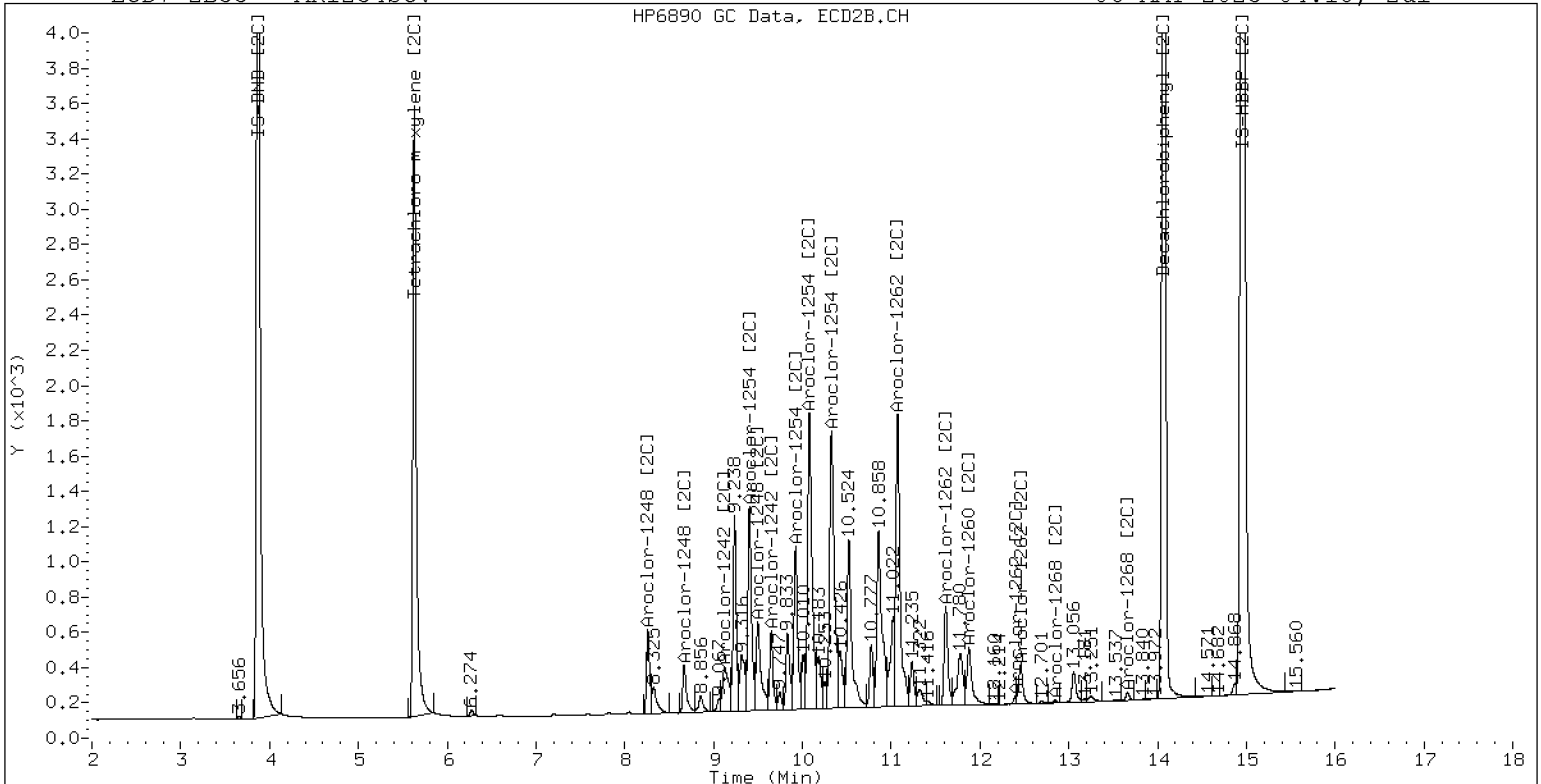
06-MAY-2023 04:18, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV

06-MAY-2023 04:18, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 8082A**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GE00022

**Laboratory ID:** SLE0079-SCV5

**Sequence:** SLE0079

**Sequence Name:** AR2162SCV5

**Standard ID:** L002068

| <b>ANALYTE</b>             | <b>EXPECTED<br/>(ug/L)</b> | <b>FOUND<br/>(ug/L)</b> | <b>% DRIFT</b> | <b>QC LIMIT</b> |
|----------------------------|----------------------------|-------------------------|----------------|-----------------|
| Aroclor 1221               | 250.00                     | 290                     | 15.9           | 20.00           |
| Aroclor 1221 [2C]          | 250.00                     | 288                     | 15.3           | 20.00           |
| Aroclor 1262               | 250.00                     | 265                     | 6.1            | 20.00           |
| Aroclor 1262 [2C]          | 250.00                     | 259                     | 3.5            | 20.00           |
| Decachlorobiphenyl         | 40.000                     | 37.1                    | -7.3           | 20.00           |
| Tetrachlorometaxylene      | 40.000                     | 37.8                    | -5.5           | 20.00           |
| Decachlorobiphenyl [2C]    | 40.000                     | 38.8                    | -3.1           | 20.00           |
| Tetrachlorometaxylene [2C] | 40.000                     | 39.1                    | -2.4           | 20.00           |

\* Indicates values outside of QC limits  
[2C] indicates second-column analyte.

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052336ECD7.D  
Data file 2: /230505.b/230505.b/05052336ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR2162SCV  
Client ID:  
Injection Date: 06-MAY-2023 04:39  
Report Date: 05/06/2023 11:31  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.742  | 0.000         | 358254   | 5.628  | -0.000         | 183759   | 37.8       | 39.1        | 3.3 | Tetrachloro-m-xylene |
| 13.842 | 0.002         | 344347   | 14.070 | 0.002          | 373300   | 37.1       | 38.8        | 4.5 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 629547      | 4.7 |
| Hexabromobiphenyl  | 876625         | 929713      | 6.1 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 349289         | 341980      | -2.1 |
| Hexabromobiphenyl  | 652984         | 678097      | 3.8  |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col                 |       |        |        |        |            |  |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|------------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                   | Peak# | RT     | Shift  | Area   | Amount     |  |
| Aroclor-1016             | 1     | 7.213  | 0.000  | 6601   | 27.1                     | 1     | 7.207  | 0.003  | 3935   | 20.3       |  |
| Aroclor-1016             | 2     | 7.595  | 0.000  | 13419  | 17.6                     | 2     | 7.821  | 0.013  | 6146   | 14.9       |  |
| Aroclor-1016             | 3     | 7.735  | 0.003  | 7114   | 20.2                     | 3     | 8.027  | 0.021  | 3201   | 17.6       |  |
| Aroclor-1016             | 4     | 8.353  | -0.045 | 3916   | 26.9                     | 4     | 8.262  | 0.003  | 2131   | 14.7       |  |
| Total CollAve (4 peaks): |       |        |        | 23.0   | Total Col2Ave (4 peaks): |       |        |        | 16.9   | RPD = 30   |  |
| Corrected Ave (3 peaks): |       |        |        | 21.6   | Corrected Ave (3 peaks): |       |        |        | 15.7   | RPD = 31   |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1221             | 1     | 4.663  | -0.001 | 13184  | 297.8                    | 1     | 4.893  | -0.001 | 7253   | 287.5      |  |
| Aroclor-1221             | 2     | 6.070  | 0.000  | 25527  | 287.4                    | 2     | 6.244  | -0.001 | 14853  | 284.1      |  |
| Aroclor-1221             | 3     | 6.321  | 0.000  | 59985  | 284.3                    | 3     | 6.571  | -0.001 | 24083  | 292.9      |  |
| Total CollAve (3 peaks): |       |        |        | 289.8  | Total Col2Ave (3 peaks): |       |        |        | 288.2  | RPD = 1    |  |
| Corrected Ave: < 3 Peaks |       |        |        |        | Corrected Ave: < 3 Peaks |       |        |        |        |            |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1232             | 1     | 4.663  | -0.001 | 13184  | 447.0                    | 1     | 4.893  | -0.001 | 7253   | 546.9      |  |
| Aroclor-1232             | 2     | 6.070  | 0.000  | 25527  | 416.0                    | 2     | 7.207  | 0.002  | 3935   | 51.8       |  |
| Aroclor-1232             | 3     | 7.595  | -0.000 | 13419  | 45.9                     | 3     | 7.821  | 0.006  | 6146   | 40.3       |  |
| Aroclor-1232             | 4     | 8.528  | 0.001  | 2679   | 21.4                     | 4     | 8.671  | 0.002  | 1120   | 25.4       |  |
| Total CollAve (4 peaks): |       |        |        | 232.6  | Total Col2Ave (4 peaks): |       |        |        | 166.1  | RPD = 33   |  |
| Corrected Ave (3 peaks): |       |        |        | 161.1  | Corrected Ave (3 peaks): |       |        |        | 39.2   | RPD = 122* |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1242             | 1     | 7.213  | 0.001  | 6601   | 33.3                     | 1     | 7.207  | 0.004  | 3935   | 25.7       |  |
| Aroclor-1242             | 2     | 7.595  | -0.000 | 13419  | 21.3                     | 2     | 7.821  | 0.008  | 6146   | 18.9       |  |
| Aroclor-1242             | 3     | 8.353  | -0.045 | 3916   | 32.2                     | 3     | 9.133  | 0.010  | 881    | 8.5        |  |
| Aroclor-1242             | 4     | 8.528  | 0.003  | 2679   | 9.5                      | 4     | 9.651  | 0.101  | 516    | 4.1        |  |
| Total CollAve (4 peaks): |       |        |        | 24.1   | Total Col2Ave (4 peaks): |       |        |        | 14.3   | RPD = 51*  |  |
| Corrected Ave (3 peaks): |       |        |        | 21.0   | Corrected Ave (3 peaks): |       |        |        | 10.5   | RPD = 67*  |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1248             | 1     | 8.353  | -0.046 | 3916   | 24.4                     | 1     | 8.262  | 0.002  | 2131   | 13.1       |  |
| Aroclor-1248             | 2     | 8.528  | 0.003  | 2679   | 6.4                      | 2     | 8.671  | 0.004  | 1120   | 6.5        |  |
| Aroclor-1248             | 3     | 8.942  | -0.002 | 25144  | 31.3                     | 3     | 9.133  | 0.013  | 881    | 4.4        |  |
| Aroclor-1248             | 4     | 9.251  | 0.008  | 25583  | 62.5                     | 4     | 9.500  | -0.045 | 335    | 1.4        |  |
| Total CollAve (4 peaks): |       |        |        | 31.1   | Total Col2Ave (4 peaks): |       |        |        | 6.3    | RPD = 132* |  |
| Corrected Ave (3 peaks): |       |        |        | 20.7   | Corrected Ave (3 peaks): |       |        |        | 4.1    | RPD = 134* |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1254             | 1     | 9.251  | 0.005  | 25583  | 39.5                     | 1     | 9.408  | 0.004  | 9719   | 37.4       |  |
| Aroclor-1254             | 2     | ---    |        |        | 0.0                      | 2     | 9.500  | 0.001  | 335    | 2.2        |  |
| Aroclor-1254             | 3     | 9.620  | 0.002  | 4245   | 10.2                     | 3     | 9.928  | 0.004  | 2055   | 9.8        |  |
| Aroclor-1254             | 4     | 9.758  | 0.003  | 11050  | 13.5                     | 4     | 10.100 | 0.022  | 55162  | 120.0      |  |
| Aroclor-1254             | 5     | 10.071 | -0.055 | 129151 | 261.4                    | 5     | 10.325 | -0.004 | 68421  | 150.1      |  |
| Total CollAve (4 peaks): |       |        |        | 81.1   | Total Col2Ave (5 peaks): |       |        |        | 63.9   | RPD = 24   |  |
| Corrected Ave (3 peaks): |       |        |        | 21.1   | Corrected Ave (4 peaks): |       |        |        | 42.3   | RPD = 67*  |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1260             | 1     | 10.995 | 0.002  | 206643 | 420.3                    | 1     | 11.605 | -0.001 | 119902 | 332.9      |  |
| Aroclor-1260             | 2     | 11.311 | 0.001  | 167443 | 345.1                    | 2     | 11.872 | 0.000  | 293746 | 311.8      |  |
| Aroclor-1260             | 3     | 11.687 | 0.001  | 390491 | 321.4                    | 3     | 12.386 | -0.002 | 131462 | 563.2      |  |
| Aroclor-1260             | 4     | 12.091 | 0.001  | 120118 | 201.8                    | 4     | 12.456 | 0.000  | 212898 | 338.4      |  |
| Aroclor-1260             | 5     | 12.195 | 0.002  | 155588 | 599.5                    | NS    | ---    |        |        | ----       |  |
| Total CollAve (5 peaks): |       |        |        | 377.6  | Total Col2Ave (4 peaks): |       |        |        | 386.6  | RPD = 2    |  |
| Corrected Ave (4 peaks): |       |        |        | 322.2  | Corrected Ave (3 peaks): |       |        |        | 327.7  | RPD = 2    |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1262             | 1     | 10.777 | -0.001 | 114050 | 271.2                    | 1     | 11.153 | 0.000  | 141861 | 258.2      |  |
| Aroclor-1262             | 2     | 12.195 | 0.001  | 155588 | 263.0                    | 2     | 11.605 | 0.000  | 119902 | 258.7      |  |
| Aroclor-1262             | 3     | 12.269 | 0.000  | 167998 | 264.2                    | 3     | 12.386 | -0.000 | 131462 | 259.6      |  |
| Aroclor-1262             | 4     | 12.938 | -0.001 | 136019 | 262.5                    | 4     | 12.456 | 0.000  | 212898 | 258.0      |  |
| Total CollAve (4 peaks): |       |        |        | 265.2  | Total Col2Ave (4 peaks): |       |        |        | 258.6  | RPD = 3    |  |
| Corrected Ave (3 peaks): |       |        |        | 263.3  | Corrected Ave (3 peaks): |       |        |        | 258.3  | RPD = 2    |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1268             | 1     | 12.195 | -0.000 | 155588 | 104.9                    | 1     | 12.386 | 0.001  | 131462 | 102.4      |  |
| Aroclor-1268             | 2     | 12.269 | 0.001  | 167998 | 114.1                    | 2     | 12.456 | 0.003  | 212898 | 154.3      |  |
| Aroclor-1268             | 3     | 12.675 | 0.027  | 60611  | 51.2                     | 3     | 12.843 | -0.000 | 8393   | 7.1        |  |
| Aroclor-1268             | 4     | 13.439 | 0.001  | 49821  | 14.7                     | 4     | 13.661 | -0.002 | 39480  | 10.4       |  |
| Total CollAve (4 peaks): |       |        |        | 71.2   | Total Col2Ave (4 peaks): |       |        |        | 68.6   | RPD = 4    |  |

Corrected Ave (3 peaks): 56.9      Corrected Ave (3 peaks): 40.0      RPD = 35

Total PCB Area Col1 (5.842 - 13.740) = 2870829      Col1 Total PCB = 0.4 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 1885829      Col2 Total PCB = 0.5 ppm\*

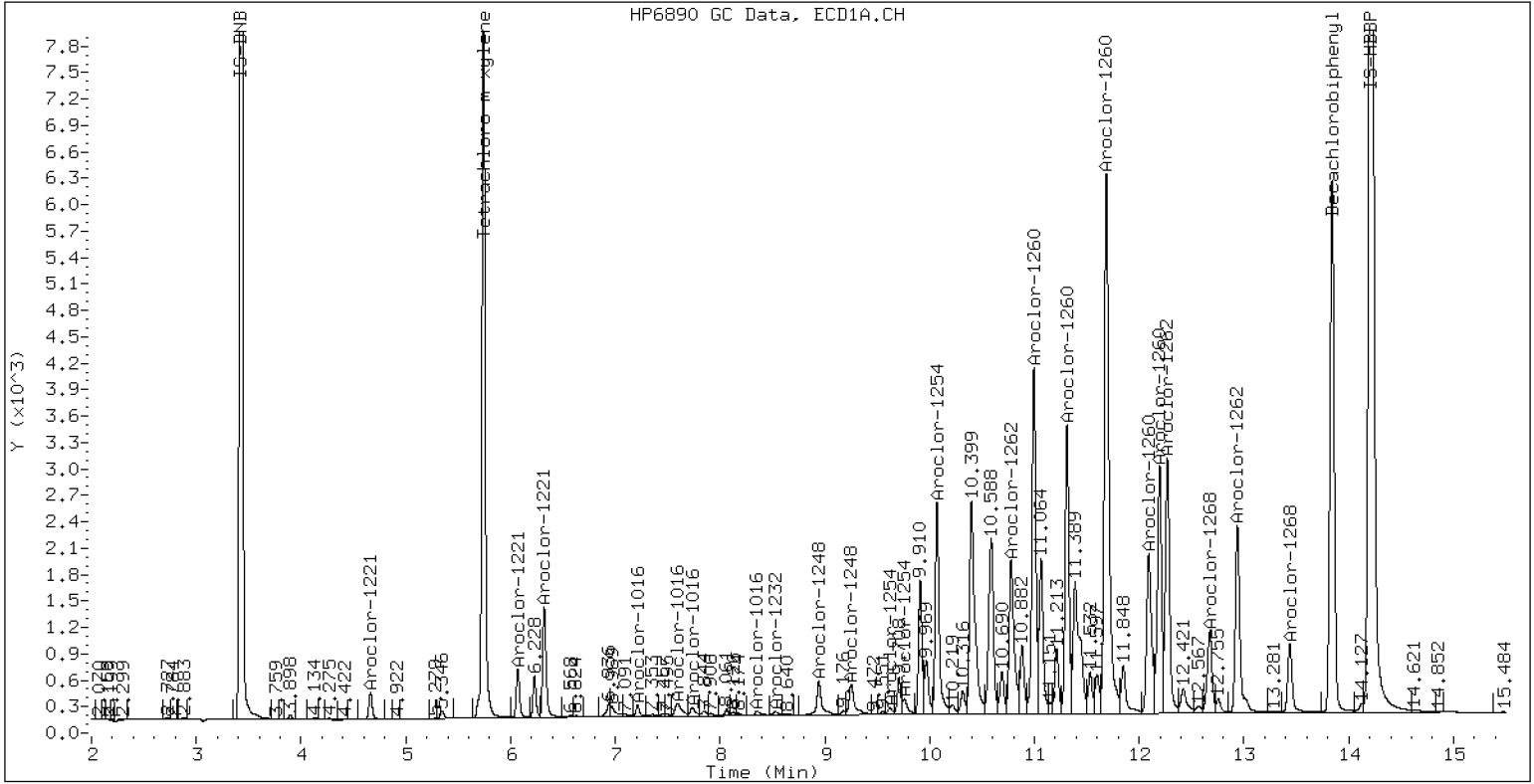
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV

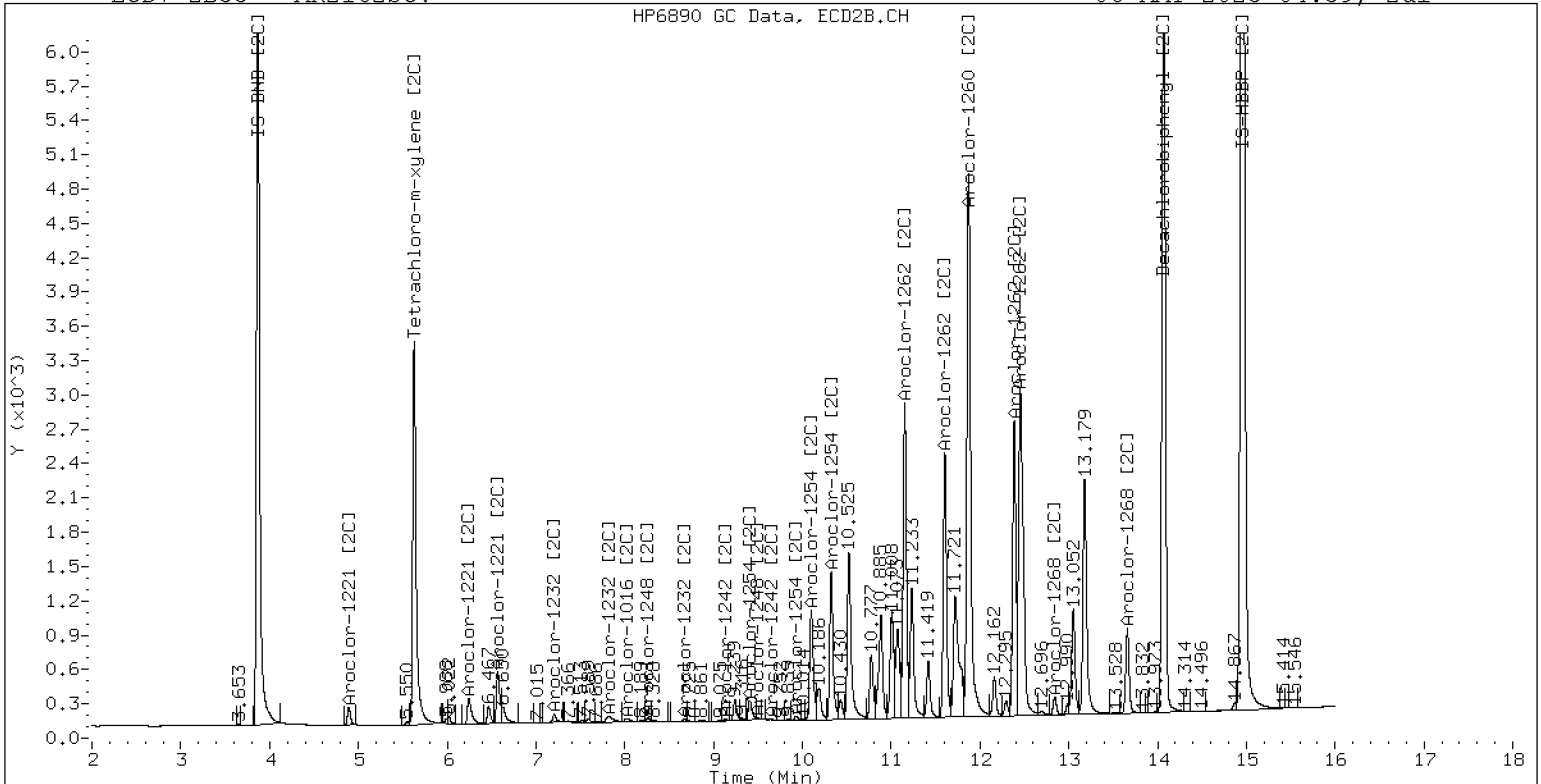
06-MAY-2023 04:39, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV

06-MAY-2023 04:39, 2u1



ZB-35 Manual Integration: NO



**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 8082A**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GE00022

**Laboratory ID:** SLE0079-SCV6

**Sequence:** SLE0079

**Sequence Name:** AR3268SCV6

**Standard ID:** L002069

| <b>ANALYTE</b>             | <b>EXPECTED<br/>(ug/L)</b> | <b>FOUND<br/>(ug/L)</b> | <b>% DRIFT</b> | <b>QC LIMIT</b> |
|----------------------------|----------------------------|-------------------------|----------------|-----------------|
| Aroclor 1232               | 250.00                     | 256                     | 2.6            | 20.00           |
| Aroclor 1232 [2C]          | 250.00                     | 301                     | 20.3           | 20.00           |
| Aroclor 1268               | 250.00                     | 266                     | 6.5            | 20.00           |
| Aroclor 1268 [2C]          | 250.00                     | 263                     | 5.2            | 20.00           |
| Decachlorobiphenyl         | 40.000                     | 55.1                    | 37.7           | 20.00           |
| Tetrachlorometaxylene      | 40.000                     | 38.4                    | -4.0           | 20.00           |
| Decachlorobiphenyl [2C]    | 40.000                     | 59.3                    | 48.3           | 20.00           |
| Tetrachlorometaxylene [2C] | 40.000                     | 40.4                    | 1.1            | 20.00           |

\* Indicates values outside of QC limits  
[2C] indicates second-column analyte.



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052337ECD7.D  
Data file 2: /230505.b/230505.b/05052337ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR3268SCV  
Client ID:  
Injection Date: 06-MAY-2023 05:00  
Report Date: 05/06/2023 11:31  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.743  | 0.001         | 373749   | 5.629  | 0.001          | 196946   | 38.4       | 40.4        | 5.2 | Tetrachloro-m-xylene |
| 13.842 | 0.002         | 525409   | 14.069 | 0.001          | 586548   | 55.1       | 59.3        | 7.4 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 646456      | 7.5 |
| Hexabromobiphenyl  | 876625         | 954969      | 8.9 |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 354120      | 1.4 |
| Hexabromobiphenyl  | 652984         | 696139      | 6.6 |

\* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 05-MAY-2023

<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        |                          | ZB35 Col |        |        |         |            |  |
|--------------------------|-------|--------|--------|--------|--------------------------|----------|--------|--------|---------|------------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                   | Peak#    | RT     | Shift  | Area    | Amount     |  |
| Aroclor-1016             | 1     | 7.214  | 0.001  | 28623  | 114.3                    | 1        | 7.205  | 0.002  | 23124   | 115.4      |  |
| Aroclor-1016             | 2     | 7.597  | 0.002  | 85721  | 109.5                    | 2        | 7.815  | 0.007  | 47496   | 111.2      |  |
| Aroclor-1016             | 3     | 7.735  | 0.002  | 41343  | 114.3                    | 3        | 8.014  | 0.008  | 24029   | 127.5      |  |
| Aroclor-1016             | 4     | 8.400  | 0.002  | 16653  | 111.6                    | 4        | 8.262  | 0.003  | 15421   | 103.0      |  |
| Total CollAve (4 peaks): |       |        |        | 112.4  | Total Col2Ave (4 peaks): |          |        |        | 114.3   | RPD = 2    |  |
| Corrected Ave (3 peaks): |       |        |        | 111.8  | Corrected Ave (3 peaks): |          |        |        | 109.9   | RPD = 2    |  |
| Aroclor-1221             | 1     | 4.664  | 0.001  | 7272   | 159.9                    | 1        | 4.895  | 0.000  | 4045    | 154.9      |  |
| Aroclor-1221             | 2     | 6.070  | 0.001  | 13478  | 147.8                    | 2        | 6.246  | 0.000  | 9235    | 170.6      |  |
| Aroclor-1221             | 3     | 6.321  | 0.001  | 43831  | 202.3                    | 3        | 6.572  | 0.000  | 24300   | 285.4      |  |
| Total CollAve (3 peaks): |       |        |        | 170.0  | Total Col2Ave (3 peaks): |          |        |        | 203.6   | RPD = 18   |  |
| Corrected Ave: < 3 Peaks |       |        |        |        | Corrected Ave: < 3 Peaks |          |        |        |         |            |  |
| Aroclor-1232             | 1     | 4.664  | 0.001  | 7272   | 240.1                    | 1        | 4.895  | 0.001  | 4045    | 294.5      |  |
| Aroclor-1232             | 2     | 6.070  | 0.001  | 13478  | 213.9                    | 2        | 7.205  | 0.001  | 23124   | 294.1      |  |
| Aroclor-1232             | 3     | 7.597  | 0.002  | 85721  | 285.5                    | 3        | 7.815  | 0.000  | 47496   | 300.7      |  |
| Aroclor-1232             | 4     | 8.527  | 0.000  | 36809  | 286.5                    | 4        | 8.669  | -0.000 | 14324   | 313.2      |  |
| Total CollAve (4 peaks): |       |        |        | 256.5  | Total Col2Ave (4 peaks): |          |        |        | 300.6   | RPD = 16   |  |
| Corrected Ave (3 peaks): |       |        |        | 246.5  | Corrected Ave (3 peaks): |          |        |        | 296.5   | RPD = 18   |  |
| Aroclor-1242             | 1     | 7.214  | 0.002  | 28623  | 140.5                    | 1        | 7.205  | 0.002  | 23124   | 146.1      |  |
| Aroclor-1242             | 2     | 7.597  | 0.002  | 85721  | 132.8                    | 2        | 7.815  | 0.002  | 47496   | 141.1      |  |
| Aroclor-1242             | 3     | 8.400  | 0.002  | 16653  | 133.4                    | 3        | 9.128  | 0.005  | 14403   | 133.4      |  |
| Aroclor-1242             | 4     | 8.527  | 0.003  | 36809  | 127.4                    | 4        | 9.648  | 0.098  | 5512    | 42.4       |  |
| Total CollAve (4 peaks): |       |        |        | 133.5  | Total Col2Ave (4 peaks): |          |        |        | 115.7   | RPD = 14   |  |
| Corrected Ave (3 peaks): |       |        |        | 131.2  | Corrected Ave (3 peaks): |          |        |        | 105.6   | RPD = 22   |  |
| Aroclor-1248             | 1     | 8.400  | 0.001  | 16653  | 100.9                    | 1        | 8.262  | 0.002  | 15421   | 91.5       |  |
| Aroclor-1248             | 2     | 8.527  | 0.003  | 36809  | 85.8                     | 2        | 8.669  | 0.002  | 14324   | 80.5       |  |
| Aroclor-1248             | 3     | 8.944  | 0.000  | 89377  | 108.4                    | 3        | 9.128  | 0.008  | 14403   | 69.0       |  |
| Aroclor-1248             | 4     | 9.238  | -0.005 | 41570  | 98.9                     | 4        | 9.560  | 0.015  | 17331   | 69.3       |  |
| Total CollAve (4 peaks): |       |        |        | 98.5   | Total Col2Ave (4 peaks): |          |        |        | 77.6    | RPD = 24   |  |
| Corrected Ave (3 peaks): |       |        |        | 95.2   | Corrected Ave (3 peaks): |          |        |        | 72.9    | RPD = 26   |  |
| Aroclor-1254             | 1     | 9.238  | -0.008 | 41570  | 62.6                     | 1        | 9.407  | 0.003  | 5487    | 20.4       |  |
| Aroclor-1254             | 2     | 9.326  | 0.001  | 12640  | 42.3                     | 2        | 9.560  | 0.061  | 17331   | 108.4      |  |
| Aroclor-1254             | 3     | 9.624  | 0.006  | 7232   | 16.9                     | 3        | 9.929  | 0.005  | 3481    | 16.0       |  |
| Aroclor-1254             | 4     | 9.764  | 0.008  | 11671  | 13.9                     | 4        | 10.086 | 0.009  | 7259    | 15.3       |  |
| Aroclor-1254             | 5     | 10.139 | 0.014  | 7544   | 14.9                     | 5        | 10.345 | 0.017  | 6610    | 14.0       |  |
| Total CollAve (5 peaks): |       |        |        | 30.1   | Total Col2Ave (5 peaks): |          |        |        | 34.8    | RPD = 14   |  |
| Corrected Ave (4 peaks): |       |        |        | 22.0   | Corrected Ave (4 peaks): |          |        |        | 16.4    | RPD = 29   |  |
| Aroclor-1260             | 1     | 10.998 | 0.005  | 85093  | 168.5                    | 1        | 11.598 | -0.008 | 75237   | 203.5      |  |
| Aroclor-1260             | 2     | 11.313 | 0.003  | 6363   | 12.8                     | 2        | 11.873 | 0.001  | 33655   | 34.8       |  |
| Aroclor-1260             | 3     | 11.688 | 0.002  | 47857  | 38.3                     | 3        | 12.384 | -0.004 | 346138  | 1444.4     |  |
| Aroclor-1260             | 4     | 12.094 | 0.004  | 1291   | 2.1                      | 4        | 12.453 | -0.002 | 373218  | 577.8      |  |
| Aroclor-1260             | 5     | 12.195 | 0.001  | 406211 | 1523.9                   | NS       | ---    |        |         | ----       |  |
| Total CollAve (5 peaks): |       |        |        | 349.1  | Total Col2Ave (4 peaks): |          |        |        | 565.1   | RPD = 47*  |  |
| Corrected Ave (4 peaks): |       |        |        | 55.4   | Corrected Ave (3 peaks): |          |        |        | 272.0   | RPD = 132* |  |
| Aroclor-1262             | 1     | 10.785 | 0.006  | 4006   | 9.3                      | 1        | 11.156 | 0.002  | 52531   | 93.1       |  |
| Aroclor-1262             | 2     | 12.195 | 0.000  | 406211 | 668.6                    | 2        | 11.598 | -0.007 | 75237   | 158.2      |  |
| Aroclor-1262             | 3     | 12.268 | -0.002 | 403730 | 618.2                    | 3        | 12.384 | -0.002 | 346138  | 665.8      |  |
| Aroclor-1262             | 4     | 12.937 | -0.002 | 145536 | 273.5                    | 4        | 12.453 | -0.002 | 373218  | 440.5      |  |
| Total CollAve (4 peaks): |       |        |        | 392.4  | Total Col2Ave (4 peaks): |          |        |        | 339.4   | RPD = 14   |  |
| Corrected Ave (3 peaks): |       |        |        | 300.3  | Corrected Ave (3 peaks): |          |        |        | 230.6   | RPD = 26   |  |
| Aroclor-1268             | 1     | 12.195 | -0.001 | 406211 | 266.7                    | 1        | 12.384 | -0.001 | 346138  | 262.7      |  |
| Aroclor-1268             | 2     | 12.268 | -0.000 | 403730 | 266.9                    | 2        | 12.453 | 0.001  | 373218  | 263.5      |  |
| Aroclor-1268             | 3     | 12.648 | -0.000 | 323568 | 266.0                    | 3        | 12.844 | 0.001  | 316122  | 260.6      |  |
| Aroclor-1268             | 4     | 13.439 | 0.002  | 920777 | 265.1                    | 4        | 13.663 | 0.000  | 1029335 | 264.8      |  |
| Total CollAve (4 peaks): |       |        |        | 266.2  | Total Col2Ave (4 peaks): |          |        |        | 262.9   | RPD = 1    |  |

Corrected Ave (3 peaks): 265.9      Corrected Ave (3 peaks): 262.3      RPD = 1

Total PCB Area Col1 (5.842 - 13.740) = 3325332      Col1 Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 2876097      Col2 Total PCB = 0.7 ppm\*

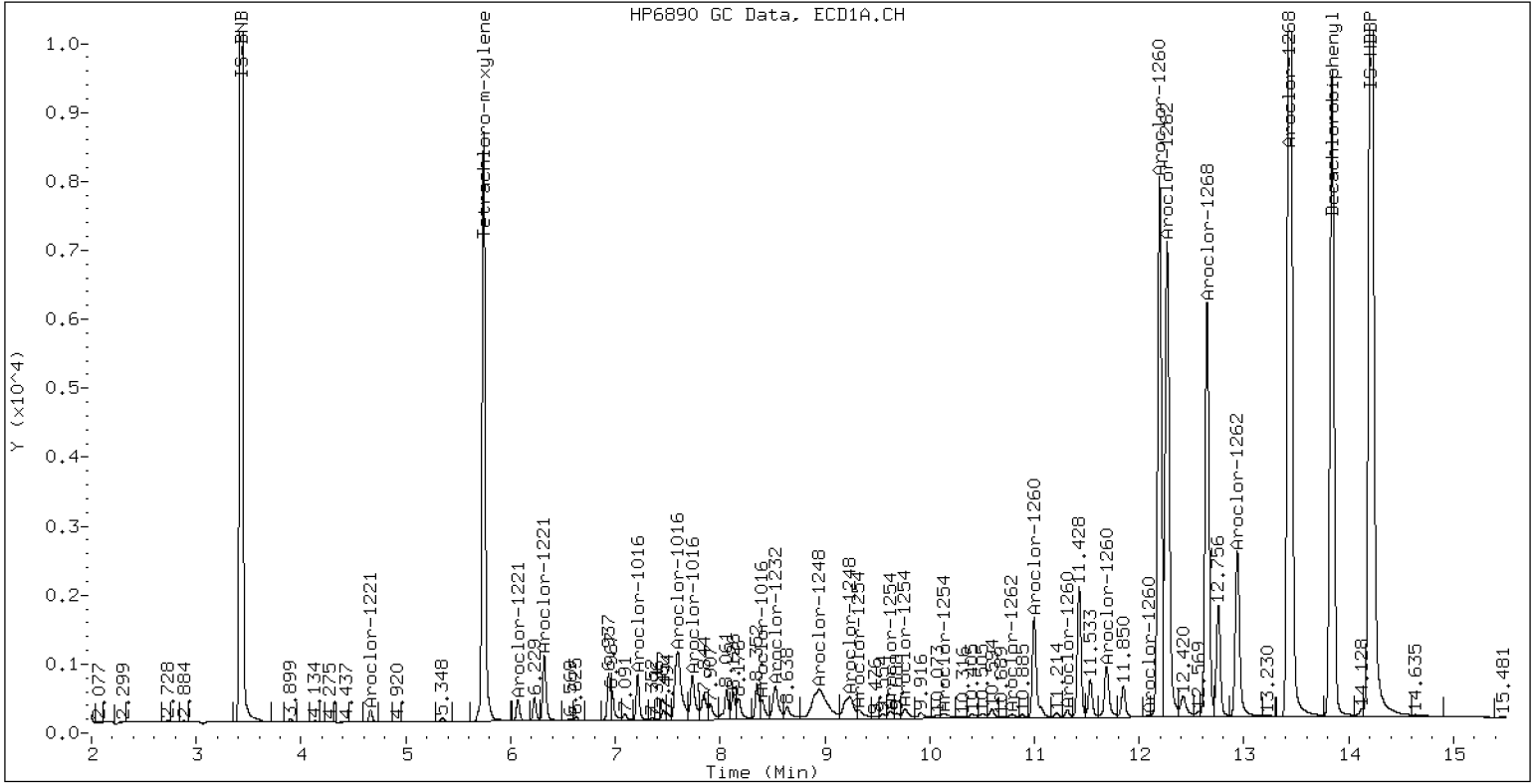
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV

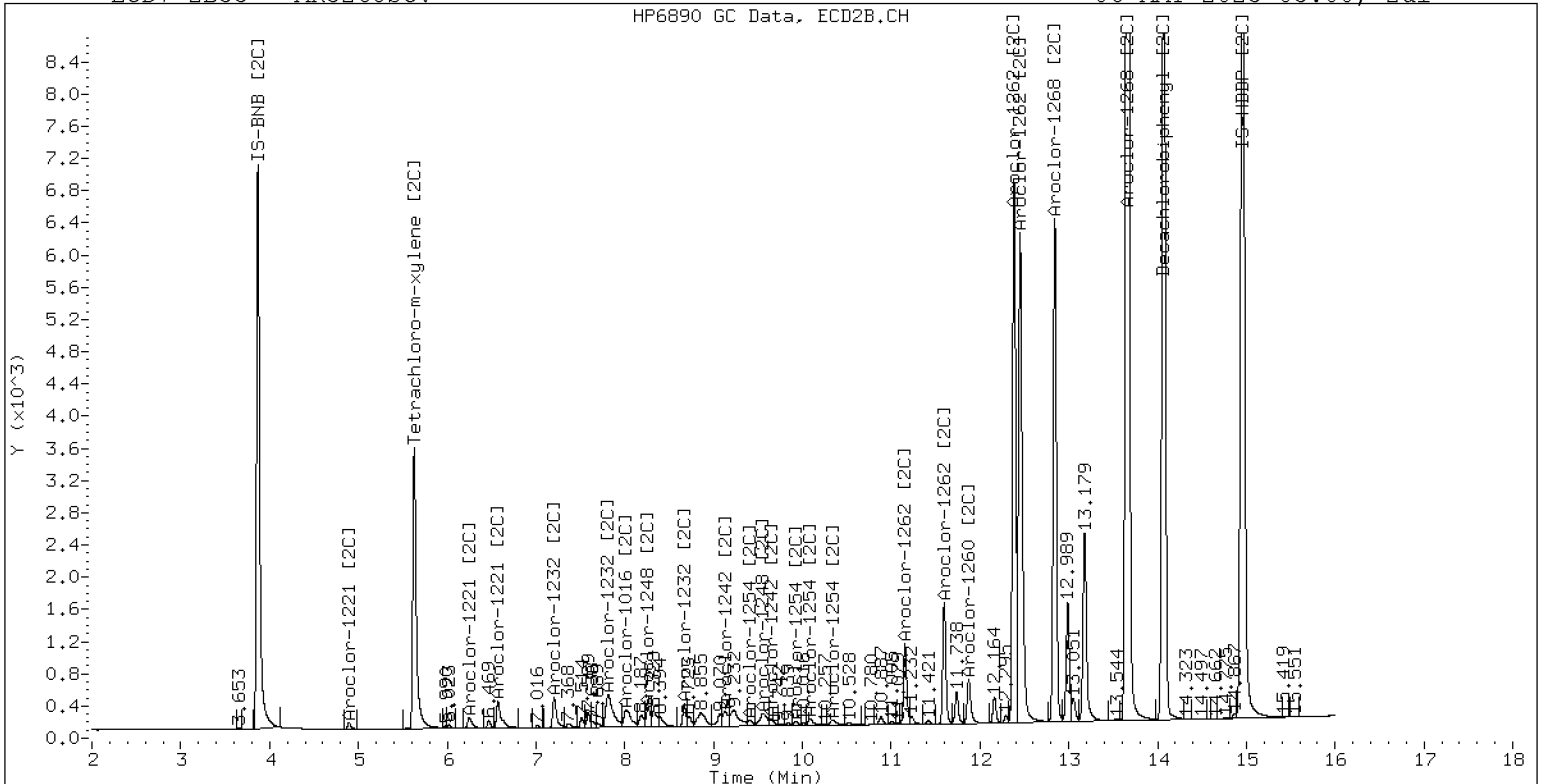
06-MAY-2023 05:00, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV

06-MAY-2023 05:00, 2ul



ZB-35 Manual Integration: NO



**INITIAL CALIBRATION CHECK**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ECD7

Calibration: GA00061

Lab File ID: 02042302ECD7.D

Calibration Date: 01/24/2023

Sequence: SLB0084

Injection Date: 02/04/23

Lab Sample ID: SLB0084-ICV1

Injection Time: 16:16

Sequence Name: AR1254ICV1

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------|-----------|-----|--------------|-------|
|                            |      | STD          | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT |
| Aroclor 1254               | A    | 250.00       | 231  | 0.0675033       | 0.0630454 |     | -7.8         | +/-20 |
| Aroclor-1254 (1)           | A    | 250.00       | 219  | 0.0815329       | 0.0714839 |     |              |       |
| Aroclor-1254 (2)           | A    | 250.00       | 218  | 0.0348121       | 0.0304263 |     |              |       |
| Aroclor-1254 (3)           | A    | 250.00       | 228  | 0.0522405       | 0.0476952 |     |              |       |
| Aroclor-1254 (4)           | A    | 250.00       | 249  | 0.1023658       | 0.1019927 |     |              |       |
| Aroclor-1254 (5)           | A    | 250.00       | 239  | 0.0665652       | 0.0636292 |     |              |       |
| Aroclor 1254 [2C]          | A    | 250.00       | 233  | 0.0733219       | 0.0687932 |     | -6.7         | +/-20 |
| Aroclor-1254 (1) [2C]      | A    | 250.00       | 239  | 0.0580388       | 0.0554202 |     |              |       |
| Aroclor-1254 (2) [2C]      | A    | 250.00       | 236  | 0.0469118       | 0.0442965 |     |              |       |
| Aroclor-1254 (3) [2C]      | A    | 250.00       | 226  | 0.1023304       | 0.0927265 |     |              |       |
| Aroclor-1254 (4) [2C]      | A    | 250.00       | 251  | 0.1023323       | 0.1026410 |     |              |       |
| Aroclor-1254 (5) [2C]      | A    | 250.00       | 214  | 0.0569963       | 0.0488819 |     |              |       |
| Decachlorobiphenyl         | A    | 40.000       | 40.3 | 0.8555994       | 0.8628475 |     | 0.8          | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 40.0 | 1.1307870       | 1.1304120 |     | 0.0          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 39.2 | 1.2696430       | 1.2445570 |     | -2.0         | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 39.6 | 1.0814980       | 1.0716130 |     | -1.0         | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042302ECD7.D  
Data file 2: /230204.b/230204.b/02042302ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: AR1254.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1254ICV1  
Client ID:  
Injection Date: 04-FEB-2023 16:16  
Report Date: 02/06/2023 16:43  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.807  | 0.001         | 251888   | 5.683  | -0.001         | 190438   | 40.0       | 39.6        | 0.9 | Tetrachloro-m-xylene |
| 13.891 | 0.003         | 260504   | 14.116 | 0.001          | 262075   | 40.3       | 39.2        | 2.8 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |       |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 445657      | -11.5 |
| Hexabromobiphenyl  | 647433         | 603824      | -6.7  |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 355423      | 5.5  |
| Hexabromobiphenyl  | 382032         | 421154      | 10.2 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        |        | ZB35 Col                 |        |       |        |        |         |
|--------------------------|-------|--------|--------|--------|--------|--------------------------|--------|-------|--------|--------|---------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount | Peak#                    | RT     | Shift | Area   | Amount |         |
| Aroclor-1254             | 1     | 9.294  | 0.001  | 99554  | 219.2  | 1                        | 9.442  | 0.000 | 61555  | 238.7  |         |
| Aroclor-1254             | 2     | 9.369  | -0.000 | 42374  | 218.5  | 2                        | 9.962  | 0.000 | 49200  | 236.1  |         |
| Aroclor-1254             | 3     | 9.661  | -0.000 | 66424  | 228.2  | 3                        | 10.113 | 0.000 | 102991 | 226.5  |         |
| Aroclor-1254             | 4     | 9.798  | -0.001 | 142043 | 249.1  | 4                        | 10.362 | 0.000 | 114003 | 250.8  |         |
| Aroclor-1254             | 5     | 10.155 | -0.002 | 88615  | 239.0  | 5                        | 10.561 | 0.000 | 54293  | 214.4  |         |
| Total CollAve (5 peaks): |       |        |        | 230.8  |        | Total Col2Ave (5 peaks): |        |       |        | 233.3  | RPD = 1 |
| Corrected Ave (4 peaks): |       |        |        | 226.2  |        | Corrected Ave (4 peaks): |        |       |        | 228.9  | RPD = 1 |
| CalAmt %D:               |       |        |        | -7.7   |        | CalAmt %D:               |        |       |        | -6.7   |         |

Total PCB Area Col1 (5.906 - 13.788) = 1448009      Col1 Total PCB = 0.3 ppm\*

Total PCB Area Col2 (5.784 - 14.016) = 1039351      Col2 Total PCB = 0.3 ppm\*

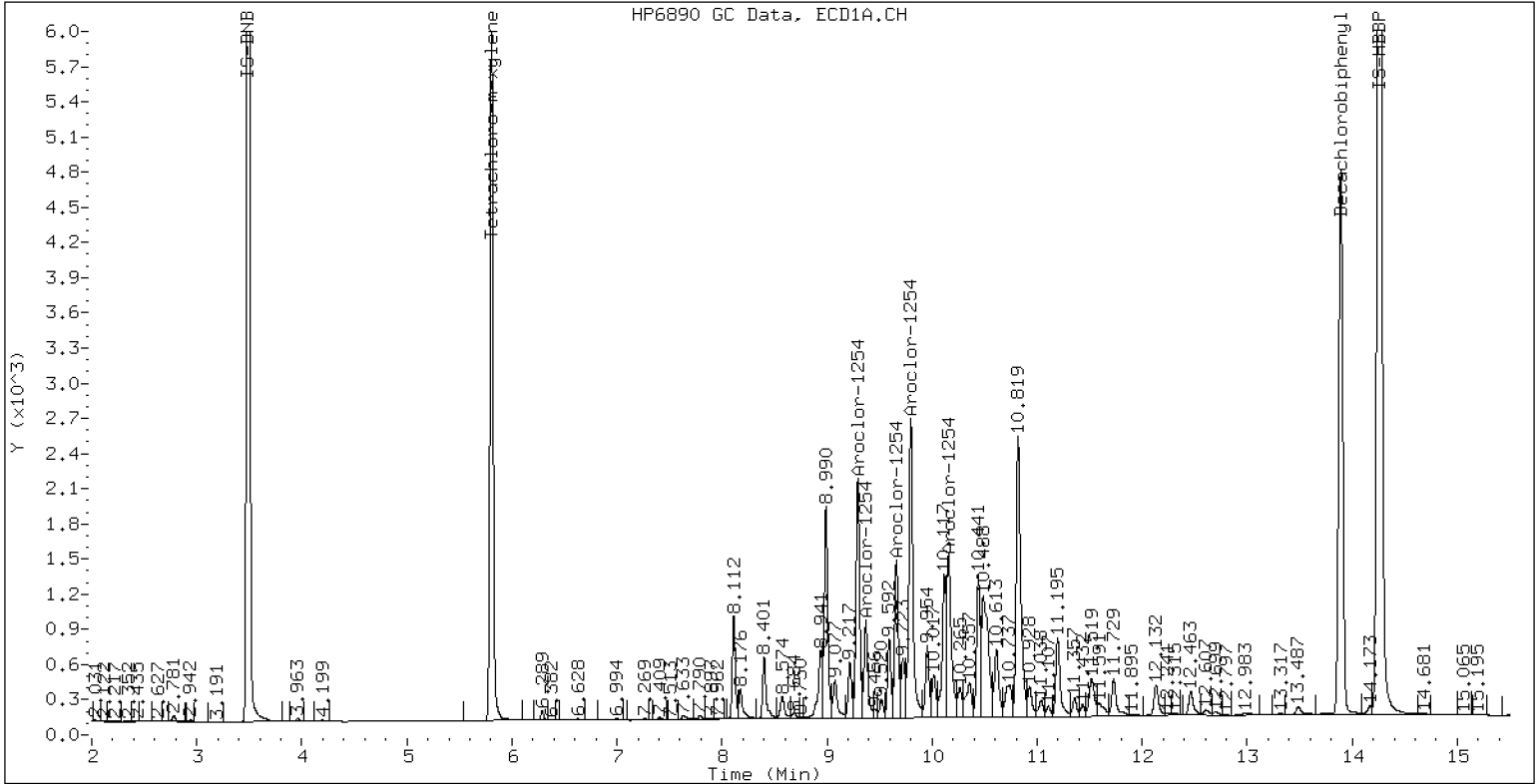
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1

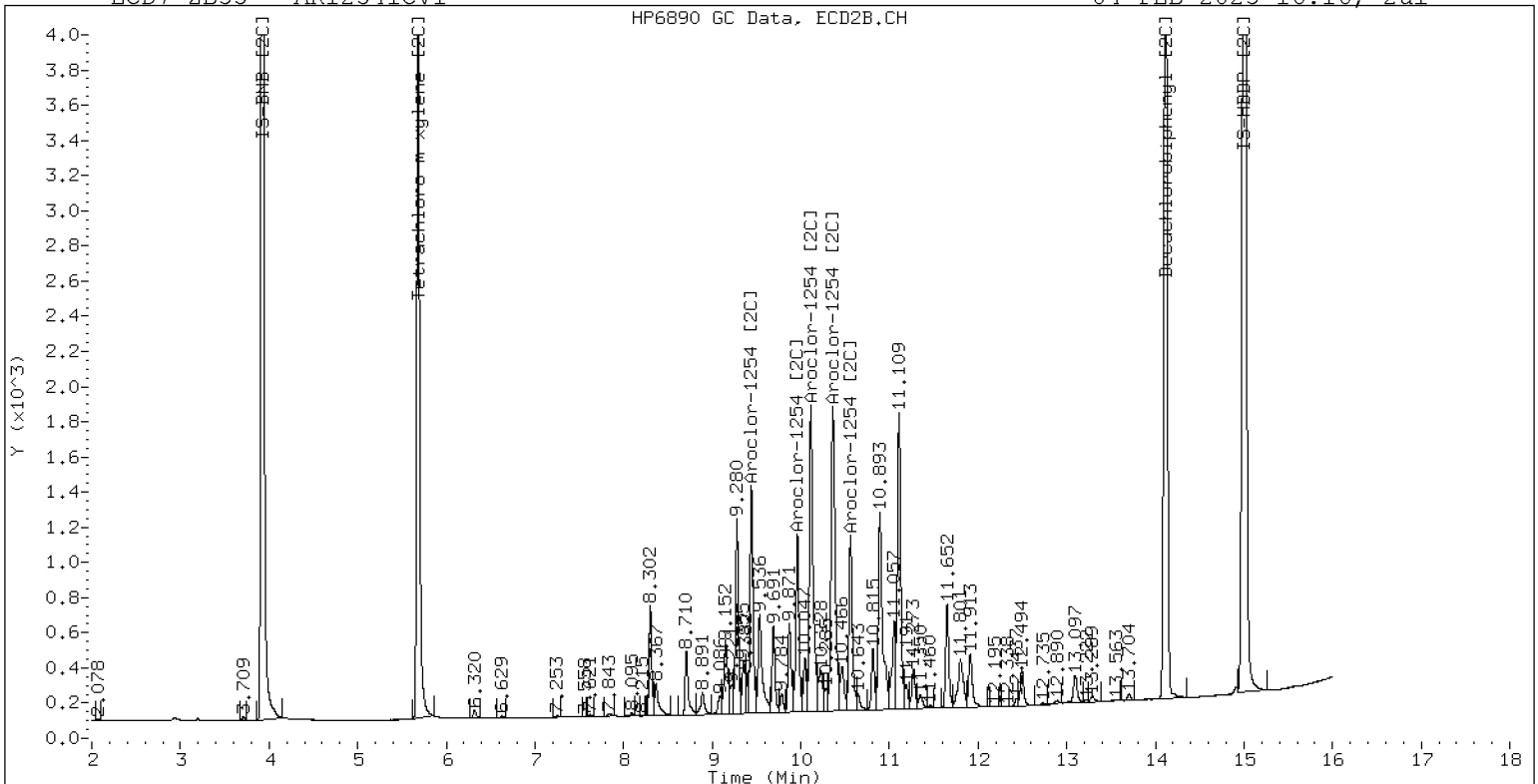
04-FEB-2023 16:16, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254ICV1

04-FEB-2023 16:16, 2ul



ZB-35 Manual Integration: NO





INITIAL CALIBRATION CHECK  
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ECD7

Calibration: GA00061

Lab File ID: 02042303ECD7.D

Calibration Date: 01/24/2023

Sequence: SLB0084

Injection Date: 02/04/23

Lab Sample ID: SLB0084-ICV2

Injection Time: 16:37

Sequence Name: AR1660ICV2

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------|-----------|-----|--------------|-------|
|                            |      | STD          | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT |
| Aroclor 1016               | A    | 250.00       | 261  | 0.0506755       | 0.0528986 |     | 4.2          | +/-20 |
| Aroclor-1016 (1)           | A    | 250.00       | 263  | 0.0297277       | 0.0312529 |     | 5.2          |       |
| Aroclor-1016 (2)           | A    | 250.00       | 267  | 0.0985017       | 0.1050799 |     | 6.8          |       |
| Aroclor-1016 (3)           | A    | 250.00       | 241  | 0.0453193       | 0.0436670 |     | -3.6         |       |
| Aroclor-1016 (4)           | A    | 250.00       | 271  | 0.0291533       | 0.0315946 |     | 8.4          |       |
| Aroclor 1016 [2C]          | A    | 250.00       | 261  | 0.0519244       | 0.0541790 |     | 4.5          | +/-20 |
| Aroclor-1016 (1) [2C]      | A    | 250.00       | 260  | 0.0433907       | 0.0452006 |     | 4.0          |       |
| Aroclor-1016 (2) [2C]      | A    | 250.00       | 259  | 0.0950862       | 0.0983983 |     | 3.6          |       |
| Aroclor-1016 (3) [2C]      | A    | 250.00       | 269  | 0.0388014       | 0.0417856 |     | 7.6          |       |
| Aroclor-1016 (4) [2C]      | A    | 250.00       | 257  | 0.0304194       | 0.0313314 |     | 2.8          |       |
| Aroclor 1260               | A    | 250.00       | 231  | 0.0605224       | 0.0562359 |     | -7.7         | +/-20 |
| Aroclor-1260 (1)           | A    | 250.00       | 239  | 0.0448870       | 0.0429935 |     | -4.4         |       |
| Aroclor-1260 (2)           | A    | 250.00       | 240  | 0.0461412       | 0.0443716 |     | -4.0         |       |
| Aroclor-1260 (3)           | A    | 250.00       | 232  | 0.1214672       | 0.1128933 |     | -7.2         |       |
| Aroclor-1260 (4)           | A    | 250.00       | 229  | 0.0627593       | 0.0575025 |     | -8.4         |       |
| Aroclor-1260 (5)           | A    | 250.00       | 214  | 0.0273573       | 0.0234187 |     | -14.4        |       |
| Aroclor 1260 [2C]          | A    | 250.00       | 247  | 0.0836545       | 0.0812893 |     | -1.1         | +/-20 |
| Aroclor-1260 (1) [2C]      | A    | 250.00       | 252  | 0.0577136       | 0.0582728 |     | 0.8          |       |
| Aroclor-1260 (2) [2C]      | A    | 250.00       | 236  | 0.1460113       | 0.1381231 |     | -5.6         |       |
| Aroclor-1260 (3) [2C]      | A    | 250.00       | 261  | 0.0363944       | 0.0379972 |     | 4.4          |       |
| Aroclor-1260 (4) [2C]      | A    | 250.00       | 240  | 0.0944986       | 0.0907642 |     | -4.0         |       |
| Decachlorobiphenyl         | A    | 40.000       | 39.3 | 0.8555994       | 0.8415802 |     | -1.8         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 43.1 | 1.1307870       | 1.2192910 |     | 7.8          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 41.5 | 1.2696430       | 1.3186020 |     | 3.8          | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 41.9 | 1.0814980       | 1.1334590 |     | 4.8          | +/-20 |

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042303ECD7.D  
Data file 2: /230204.b/230204.b/02042303ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660ICV2  
Client ID:  
Injection Date: 04-FEB-2023 16:37  
Report Date: 02/06/2023 16:43  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |       | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|-------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.807   | 0.001 | 258102   | 5.683  | -0.001 | 193460   | 43.1   | 41.9 | 2.8           | Tetrachloro-m-xylene |
| 13.889  | 0.000 | 268786   | 14.116 | 0.000  | 274173   | 39.3   | 41.5 | 5.4           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 423364      | -15.9 |
| Hexabromobiphenyl  | 647433         | 638765      | -1.3  |

| Column 2           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 336911         | 341362      | 1.3 |
| Hexabromobiphenyl  | 382032         | 415854      | 8.9 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        |        | ZB35 Col                 |        |        |        |               |
|--------------------------|-------|--------|--------|--------|--------|--------------------------|--------|--------|--------|---------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount | Peak#                    | RT     | Shift  | Area   | Amount        |
| Aroclor-1016             | 1     | 7.268  | 0.001  | 41348  | 262.8  | 1                        | 7.252  | 0.000  | 48218  | 260.4         |
| Aroclor-1016             | 2     | 7.648  | 0.000  | 139022 | 266.7  | 2                        | 7.847  | -0.000 | 104967 | 258.7         |
| Aroclor-1016             | 3     | 7.785  | 0.000  | 57772  | 240.9  | 3                        | 8.046  | -0.000 | 44575  | 269.2         |
| Aroclor-1016             | 4     | 8.401  | 0.001  | 41800  | 270.9  | 4                        | 8.302  | 0.000  | 33423  | 257.5         |
| Total CollAve (4 peaks): |       |        |        | 260.3  |        | Total Col2Ave (4 peaks): |        |        |        | 261.5 RPD = 0 |
| Corrected Ave (3 peaks): |       |        |        | 256.8  |        | Corrected Ave (3 peaks): |        |        |        | 258.9 RPD = 1 |
| CalAmt %D:               |       |        |        | 4.1    |        | CalAmt %D:               |        |        |        | 4.6           |
| Aroclor-1260             | 1     | 11.039 | 0.001  | 85821  | 239.5  | 1                        | 11.647 | 0.000  | 75728  | 252.4         |
| Aroclor-1260             | 2     | 11.355 | 0.000  | 88572  | 240.4  | 2                        | 11.911 | -0.001 | 179497 | 236.5         |
| Aroclor-1260             | 3     | 11.727 | -0.000 | 225351 | 232.4  | 3                        | 12.430 | 0.000  | 49379  | 261.0         |
| Aroclor-1260             | 4     | 12.131 | 0.000  | 114783 | 229.1  | 4                        | 12.494 | -0.001 | 117952 | 240.1         |
| Aroclor-1260             | 5     | 12.240 | 0.000  | 46747  | 214.0  | NS                       | ---    |        |        | ----          |
| Total CollAve (5 peaks): |       |        |        | 231.1  |        | Total Col2Ave (4 peaks): |        |        |        | 247.5 RPD = 7 |
| Corrected Ave (4 peaks): |       |        |        | 228.7  |        | Corrected Ave (3 peaks): |        |        |        | 243.0 RPD = 6 |
| CalAmt %D:               |       |        |        | -7.6   |        | CalAmt %D:               |        |        |        | -1.0          |

Total PCB Area Coll (5.906 - 13.788) = 2443586 Coll Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.784 - 14.016) = 1813600 Col2 Total PCB = 0.5 ppm\*

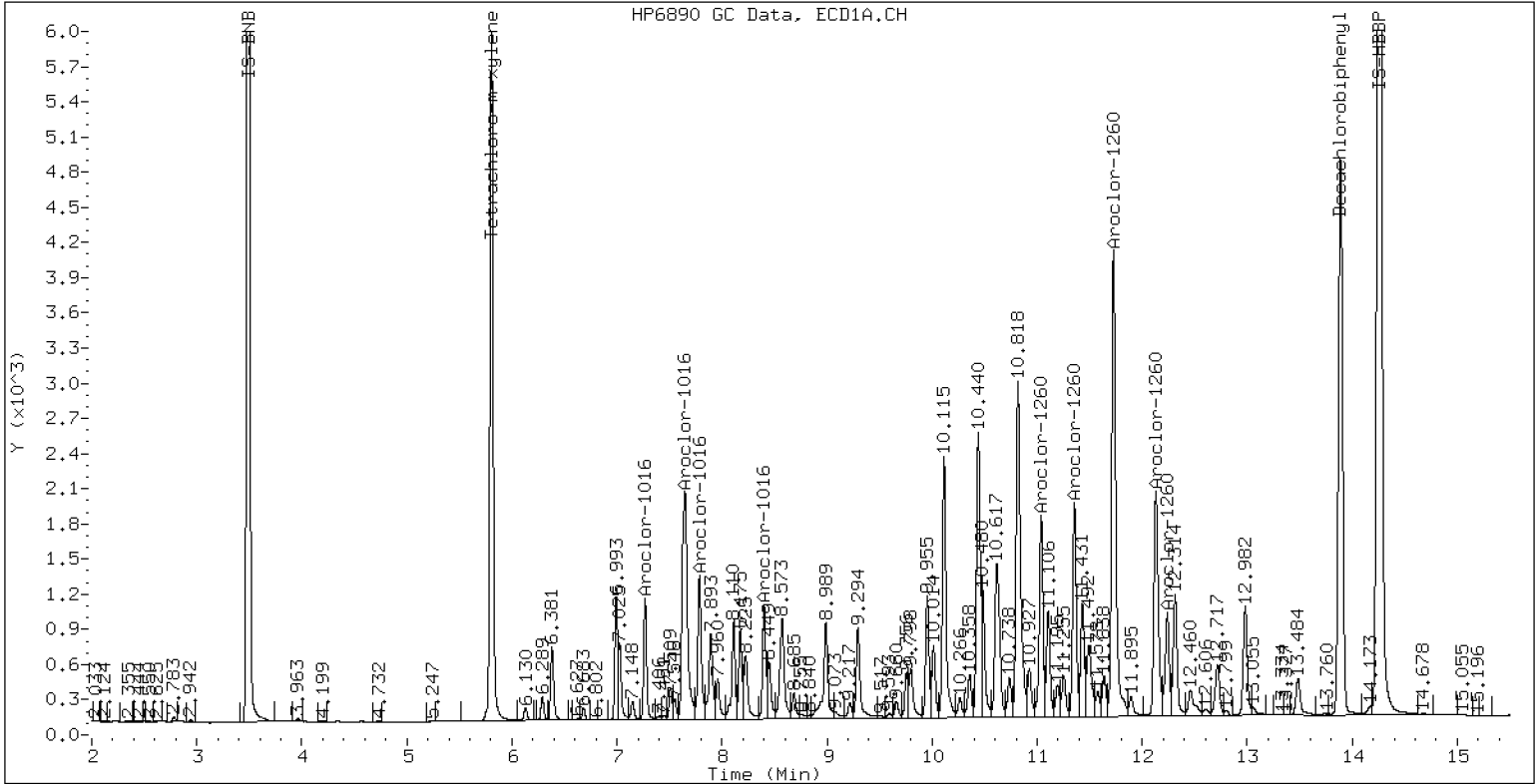
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2

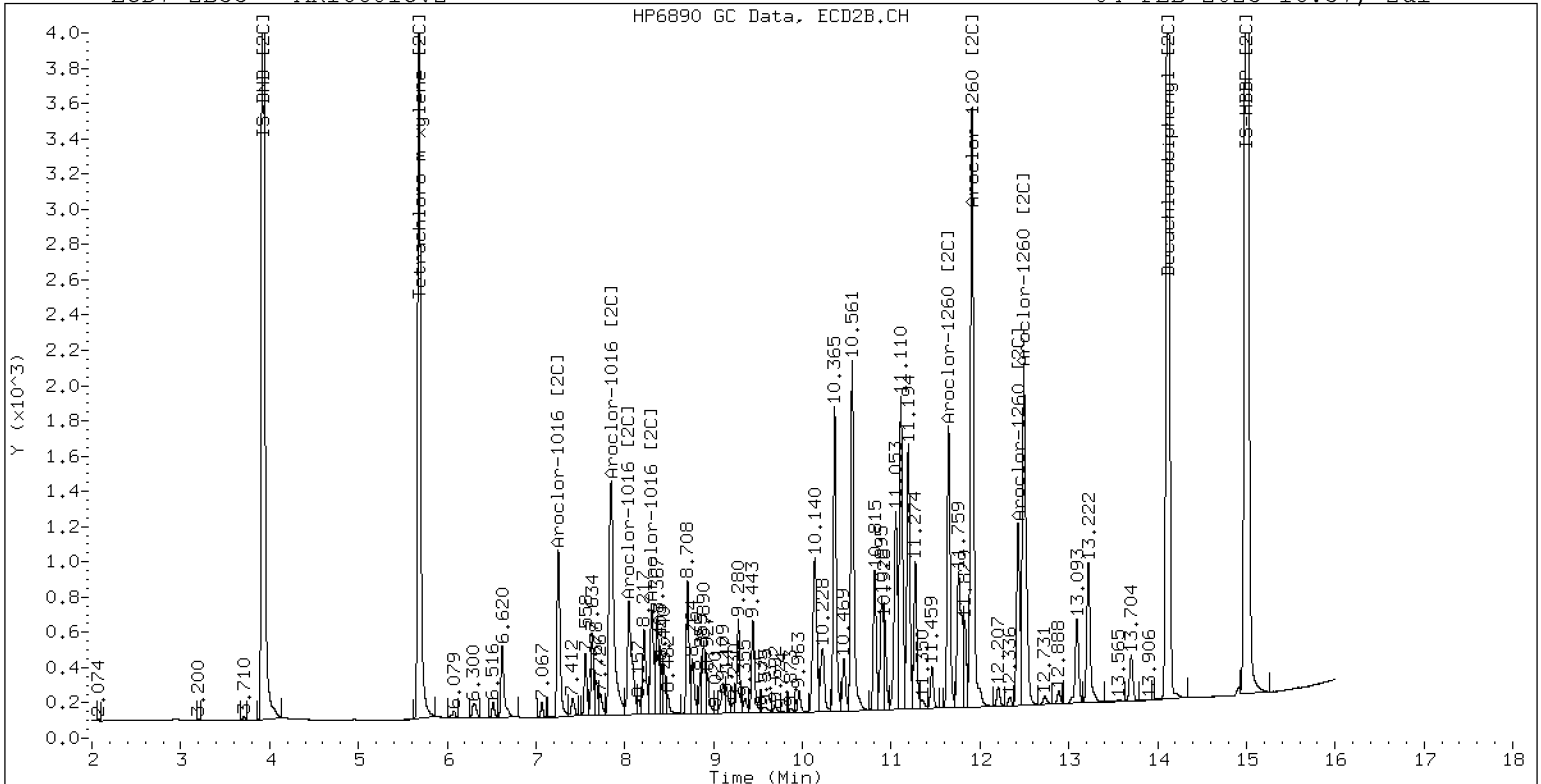
04-FEB-2023 16:37, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660ICV2

04-FEB-2023 16:37, 2ul



ZB-35 Manual Integration: NO



**INITIAL CALIBRATION CHECK**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ECD7

Calibration: GA00061

Lab File ID: 02062302ECD7.D

Calibration Date: 01/24/2023

Sequence: SLB0086

Injection Date: 02/06/23

Lab Sample ID: SLB0086-ICV1

Injection Time: 09:54

Sequence Name: AR1254ICV1

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------|-----------|-----|--------------|-------|
|                            |      | STD          | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT |
| Aroclor 1254               | A    | 250.00       | 230  | 0.0675033       | 0.0628494 |     | -8.2         | +/-20 |
| Aroclor-1254 (1)           | A    | 250.00       | 221  | 0.0815329       | 0.0721126 |     |              |       |
| Aroclor-1254 (2)           | A    | 250.00       | 214  | 0.0348121       | 0.0298731 |     |              |       |
| Aroclor-1254 (3)           | A    | 250.00       | 226  | 0.0522405       | 0.0472225 |     |              |       |
| Aroclor-1254 (4)           | A    | 250.00       | 248  | 0.1023658       | 0.1013830 |     |              |       |
| Aroclor-1254 (5)           | A    | 250.00       | 239  | 0.0665652       | 0.0636557 |     |              |       |
| Aroclor 1254 [2C]          | A    | 250.00       | 231  | 0.0733219       | 0.0683644 |     | -7.8         | +/-20 |
| Aroclor-1254 (1) [2C]      | A    | 250.00       | 242  | 0.0580388       | 0.0560920 |     |              |       |
| Aroclor-1254 (2) [2C]      | A    | 250.00       | 222  | 0.0469118       | 0.0416940 |     |              |       |
| Aroclor-1254 (3) [2C]      | A    | 250.00       | 229  | 0.1023304       | 0.0936084 |     |              |       |
| Aroclor-1254 (4) [2C]      | A    | 250.00       | 250  | 0.1023323       | 0.1025603 |     |              |       |
| Aroclor-1254 (5) [2C]      | A    | 250.00       | 210  | 0.0569963       | 0.0478672 |     |              |       |
| Decachlorobiphenyl         | A    | 40.000       | 41.0 | 0.8555994       | 0.8780073 |     | 2.5          | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 40.6 | 1.1307870       | 1.1470720 |     | 1.5          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 39.2 | 1.2696430       | 1.2444850 |     | -2.0         | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 40.7 | 1.0814980       | 1.0996120 |     | 1.8          | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062302ECD7.D  
Data file 2: /230206.b/230206.b/02062302ECD7.D  
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m  
Compound Sublist: AR1254.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1254ICV1  
Client ID:  
Injection Date: 06-FEB-2023 09:54  
Report Date: 02/07/2023 10:35  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.809   | -0.000 | 275244   | 5.684  | -0.000 | 219709   | 40.6   | 40.7 | 0.2           | Tetrachloro-m-xylene |
| 13.890  | -0.002 | 269917   | 14.117 | 0.000  | 267181   | 41.0   | 39.2 | 4.6           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 479907      | -4.7 |
| Hexabromobiphenyl  | 647433         | 614840      | -5.0 |

| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 399612      | 18.6 |
| Hexabromobiphenyl  | 382032         | 429384      | 12.4 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        |                          | ZB35 Col |        |        |        |         |  |
|--------------------------|-------|--------|--------|--------|--------------------------|----------|--------|--------|--------|---------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                   | Peak#    | RT     | Shift  | Area   | Amount  |  |
| Aroclor-1254             | 1     | 9.294  | -0.005 | 108148 | 221.1                    | 1        | 9.443  | -0.001 | 70047  | 241.6   |  |
| Aroclor-1254             | 2     | 9.369  | -0.008 | 44801  | 214.5                    | 2        | 9.962  | -0.002 | 52067  | 222.2   |  |
| Aroclor-1254             | 3     | 9.661  | -0.009 | 70820  | 226.0                    | 3        | 10.114 | -0.001 | 116897 | 228.7   |  |
| Aroclor-1254             | 4     | 9.797  | -0.011 | 152045 | 247.6                    | 4        | 10.362 | -0.002 | 128076 | 250.6   |  |
| Aroclor-1254             | 5     | 10.151 | -0.026 | 95465  | 239.1                    | 5        | 10.562 | -0.001 | 59776  | 210.0   |  |
| Total CollAve (5 peaks): |       |        |        | 229.7  | Total Col2Ave (5 peaks): |          |        |        | 230.6  | RPD = 0 |  |
| Corrected Ave (4 peaks): |       |        |        | 225.2  | Corrected Ave (4 peaks): |          |        |        | 225.6  | RPD = 0 |  |
| CalAmt %D:               |       |        |        | -8.1   | CalAmt %D:               |          |        |        | -7.8   |         |  |

Total PCB Area Col1 (5.909 - 13.792) = 1530972 Col1 Total PCB = 0.3 ppm\*

Total PCB Area Col2 (5.784 - 14.017) = 1143928 Col2 Total PCB = 0.3 ppm\*

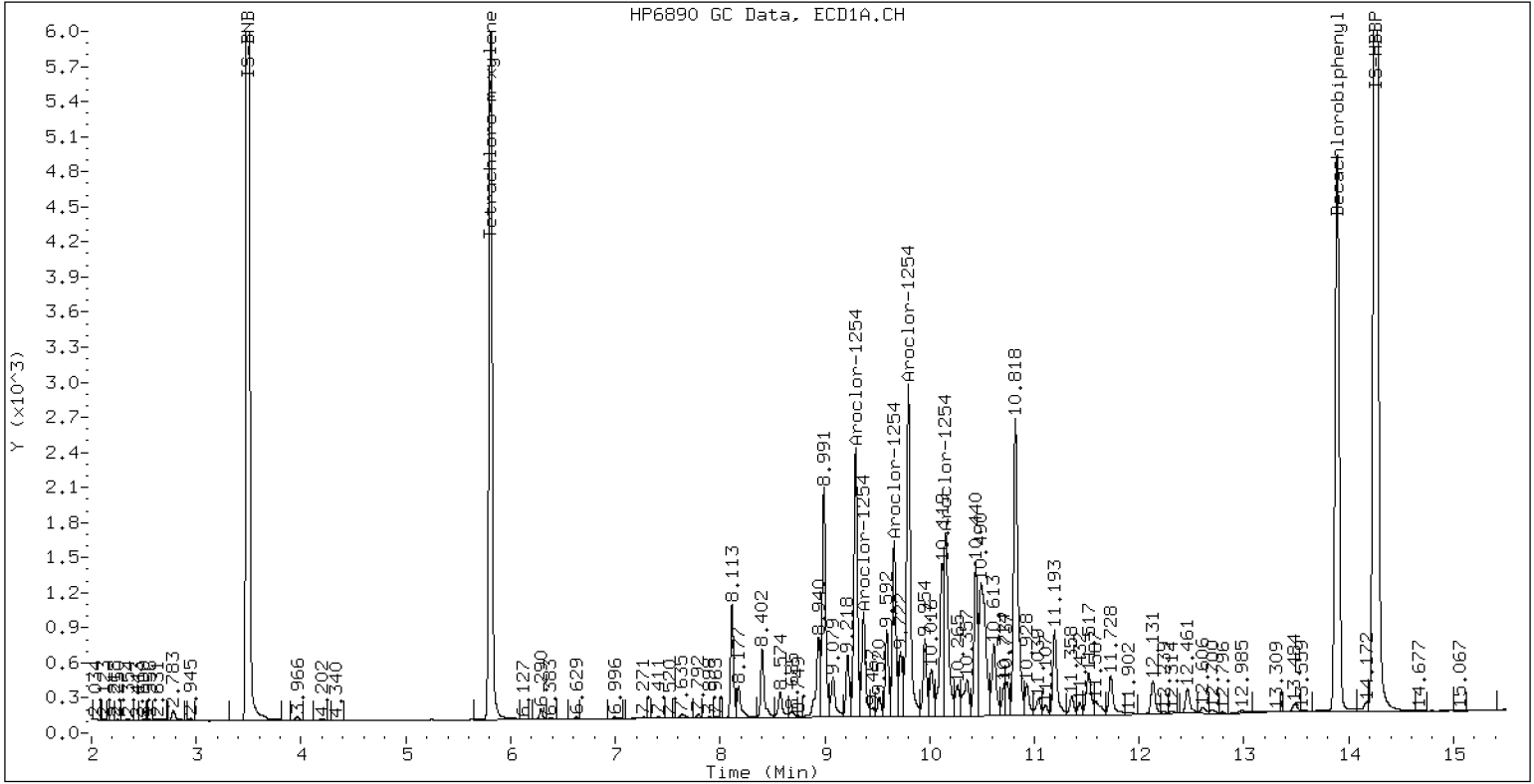
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1

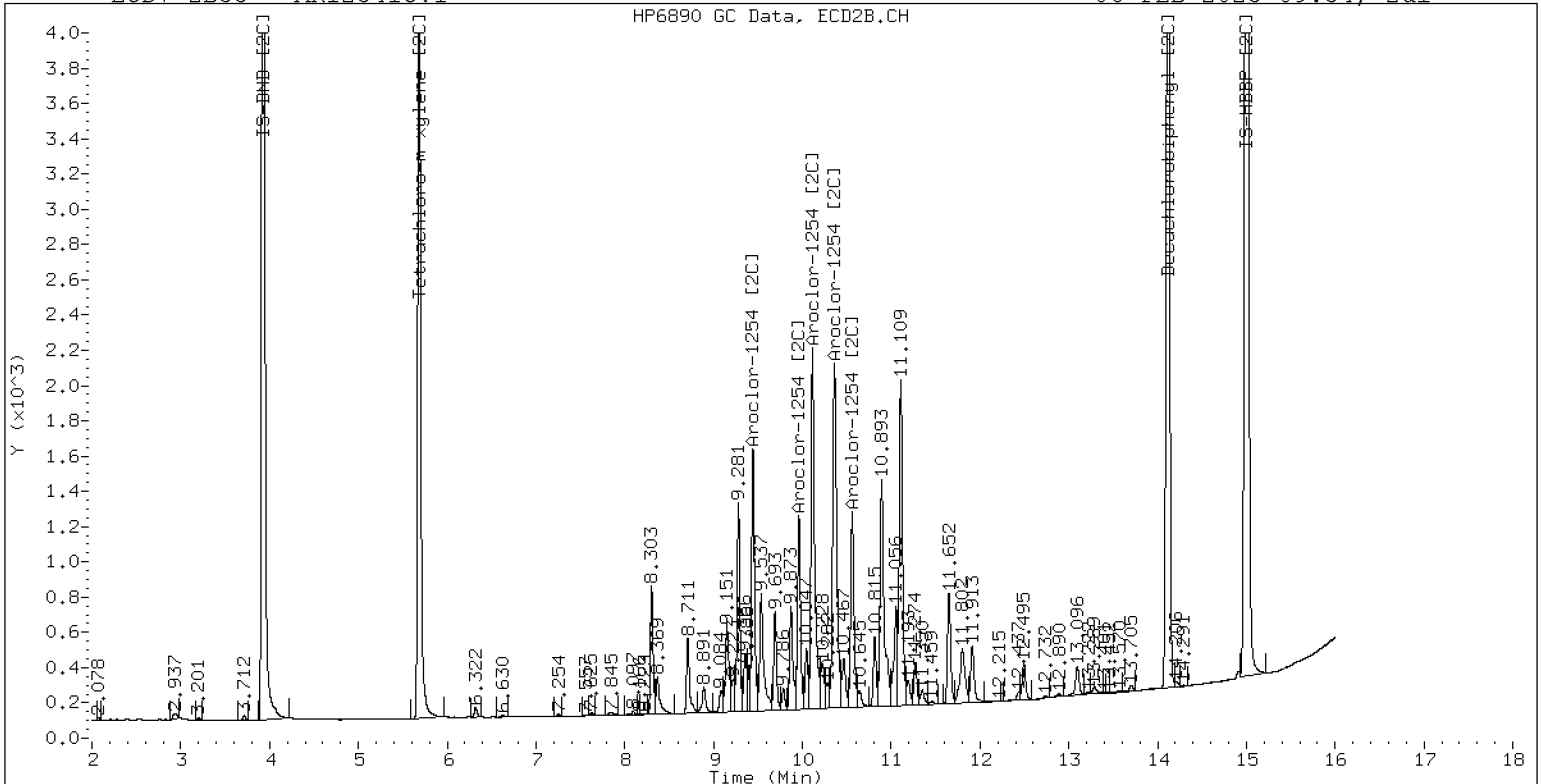
06-FEB-2023 09:54, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254ICV1

06-FEB-2023 09:54, 2u1



ZB-35 Manual Integration: NO





INITIAL CALIBRATION CHECK  
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ECD7

Calibration: GA00061

Lab File ID: 02062303ECD7.D

Calibration Date: 01/24/2023

Sequence: SLB0086

Injection Date: 02/06/23

Lab Sample ID: SLB0086-ICV2

Injection Time: 10:15

Sequence Name: AR1660ICV2

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------|-----------|-----|--------------|-------|
|                            |      | STD          | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT |
| Aroclor 1016               | A    | 250.00       | 259  | 0.0506755       | 0.0528048 |     | 3.7          | +/-20 |
| Aroclor-1016 (1)           | A    | 250.00       | 261  | 0.0297277       | 0.0310293 |     | 4.4          |       |
| Aroclor-1016 (2)           | A    | 250.00       | 267  | 0.0985017       | 0.1053544 |     | 6.8          |       |
| Aroclor-1016 (3)           | A    | 250.00       | 240  | 0.0453193       | 0.0434493 |     | -4.0         |       |
| Aroclor-1016 (4)           | A    | 250.00       | 269  | 0.0291533       | 0.0313862 |     | 7.6          |       |
| Aroclor 1016 [2C]          | A    | 250.00       | 264  | 0.0519244       | 0.0547246 |     | 5.6          | +/-20 |
| Aroclor-1016 (1) [2C]      | A    | 250.00       | 264  | 0.0433907       | 0.0458814 |     | 5.6          |       |
| Aroclor-1016 (2) [2C]      | A    | 250.00       | 261  | 0.0950862       | 0.0992501 |     | 4.4          |       |
| Aroclor-1016 (3) [2C]      | A    | 250.00       | 273  | 0.0388014       | 0.0423804 |     | 9.2          |       |
| Aroclor-1016 (4) [2C]      | A    | 250.00       | 258  | 0.0304194       | 0.0313864 |     | 3.2          |       |
| Aroclor 1260               | A    | 250.00       | 222  | 0.0605224       | 0.0539150 |     | -11.3        | +/-20 |
| Aroclor-1260 (1)           | A    | 250.00       | 233  | 0.0448870       | 0.0418951 |     | -6.8         |       |
| Aroclor-1260 (2)           | A    | 250.00       | 232  | 0.0461412       | 0.0427478 |     | -7.2         |       |
| Aroclor-1260 (3)           | A    | 250.00       | 221  | 0.1214672       | 0.1074714 |     | -11.6        |       |
| Aroclor-1260 (4)           | A    | 250.00       | 220  | 0.0627593       | 0.0552628 |     | -12.0        |       |
| Aroclor-1260 (5)           | A    | 250.00       | 203  | 0.0273573       | 0.0221977 |     | -18.8        |       |
| Aroclor 1260 [2C]          | A    | 250.00       | 246  | 0.0836545       | 0.0791306 |     | -1.7         | +/-20 |
| Aroclor-1260 (1) [2C]      | A    | 250.00       | 261  | 0.0577136       | 0.0601856 |     | 4.4          |       |
| Aroclor-1260 (2) [2C]      | A    | 250.00       | 221  | 0.1460113       | 0.1292809 |     | -11.6        |       |
| Aroclor-1260 (3) [2C]      | A    | 250.00       | 268  | 0.0363944       | 0.0389966 |     | 7.2          |       |
| Aroclor-1260 (4) [2C]      | A    | 250.00       | 233  | 0.0944986       | 0.0880595 |     | -6.8         |       |
| Decachlorobiphenyl         | A    | 40.000       | 39.3 | 0.8555994       | 0.8408264 |     | -1.8         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 43.3 | 1.1307870       | 1.2241460 |     | 8.3          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 40.9 | 1.2696430       | 1.2972510 |     | 2.3          | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 42.8 | 1.0814980       | 1.1582250 |     | 7.0          | +/-20 |

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062303ECD7.D  
Data file 2: /230206.b/230206.b/02062303ECD7.D  
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660ICV2  
Client ID:  
Injection Date: 06-FEB-2023 10:15  
Report Date: 02/07/2023 10:35  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.808   | -0.001 | 289756   | 5.685  | 0.001  | 227187   | 43.3   | 42.8 | 1.1           | Tetrachloro-m-xylene |
| 13.890  | -0.002 | 296002   | 14.116 | -0.001 | 293782   | 39.3   | 40.9 | 3.9           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 473401      | -5.9 |
| Hexabromobiphenyl  | 647433         | 704074      | 8.7  |

| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 392302      | 16.4 |
| Hexabromobiphenyl  | 382032         | 452930      | 18.6 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |        |                |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area   | Amount         |
| Aroclor-1016             | 1     | 7.269  | -0.001 | 45904  | 260.9    | 1                        | 7.254  | 0.001  | 56248  | 264.4          |
| Aroclor-1016             | 2     | 7.648  | -0.002 | 155859 | 267.4    | 2                        | 7.848  | -0.001 | 121675 | 260.9          |
| Aroclor-1016             | 3     | 7.787  | -0.002 | 64278  | 239.7    | 3                        | 8.048  | -0.001 | 51956  | 273.1          |
| Aroclor-1016             | 4     | 8.402  | -0.002 | 46432  | 269.1    | 4                        | 8.303  | 0.000  | 38478  | 257.9          |
| Total CollAve (4 peaks): |       |        |        | 259.3  |          | Total Col2Ave (4 peaks): |        |        |        | 264.1 RPD = 2  |
| Corrected Ave (3 peaks): |       |        |        | 256.0  |          | Corrected Ave (3 peaks): |        |        |        | 261.1 RPD = 2  |
| CalAmt %D:               |       |        |        | 3.7    |          | CalAmt %D:               |        |        |        | 5.6            |
| Aroclor-1260             | 1     | 11.040 | -0.004 | 92179  | 233.3    | 1                        | 11.649 | 0.001  | 85187  | 260.7          |
| Aroclor-1260             | 2     | 11.356 | -0.004 | 94055  | 231.6    | 2                        | 11.911 | -0.001 | 182985 | 221.4          |
| Aroclor-1260             | 3     | 11.727 | -0.007 | 236462 | 221.2    | 3                        | 12.430 | -0.001 | 55196  | 267.9          |
| Aroclor-1260             | 4     | 12.130 | -0.010 | 121591 | 220.1    | 4                        | 12.495 | -0.002 | 124640 | 233.0          |
| Aroclor-1260             | 5     | 12.239 | -0.005 | 48840  | 202.8    | NS                       | ---    |        |        | ----           |
| Total CollAve (5 peaks): |       |        |        | 221.8  |          | Total Col2Ave (4 peaks): |        |        |        | 245.7 RPD = 10 |
| Corrected Ave (4 peaks): |       |        |        | 218.9  |          | Corrected Ave (3 peaks): |        |        |        | 238.3 RPD = 8  |
| CalAmt %D:               |       |        |        | -11.3  |          | CalAmt %D:               |        |        |        | -1.7           |

Total PCB Area Coll (5.909 - 13.792) = 2635947 Coll Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.784 - 14.017) = 2041799 Col2 Total PCB = 0.5 ppm\*

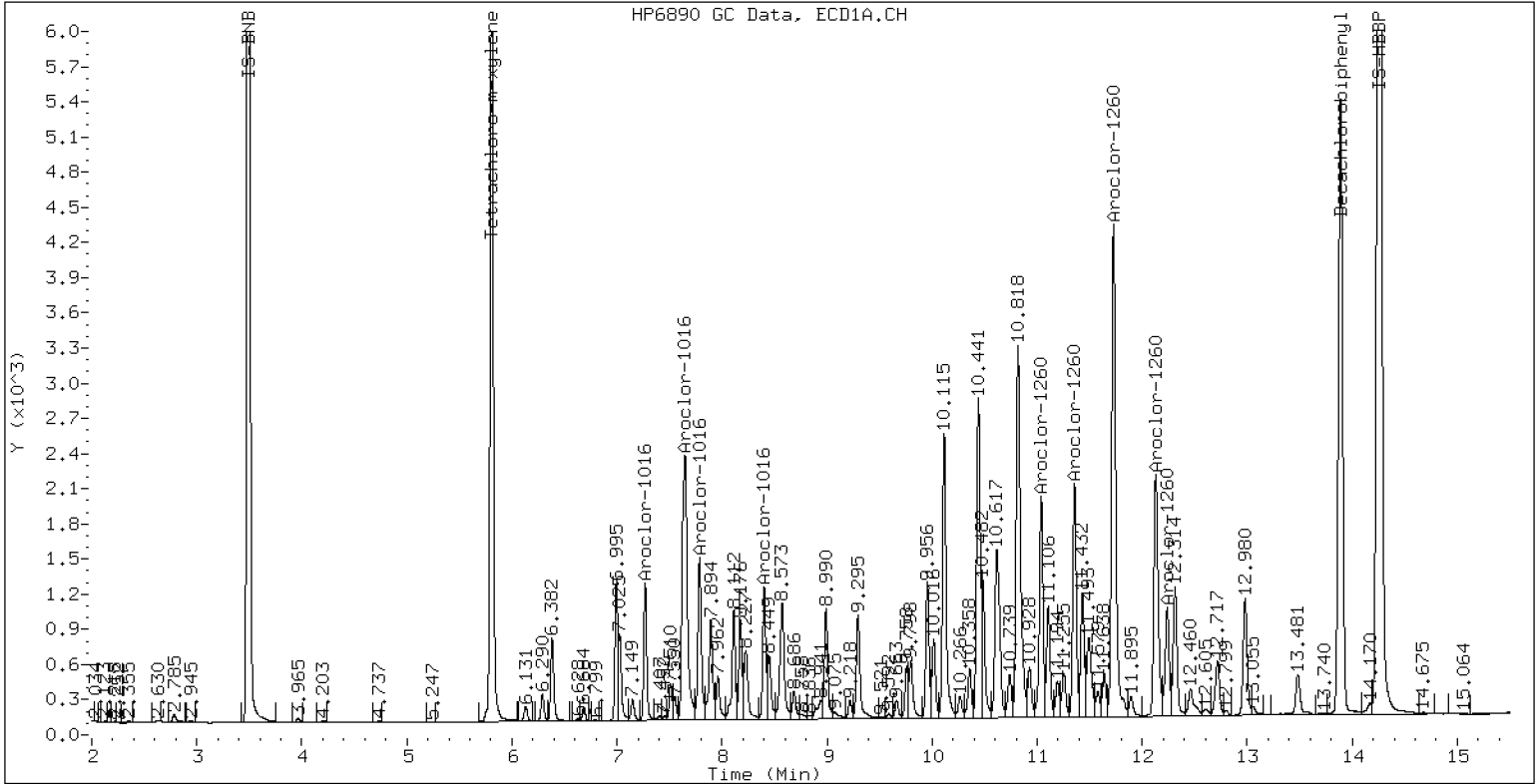
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2

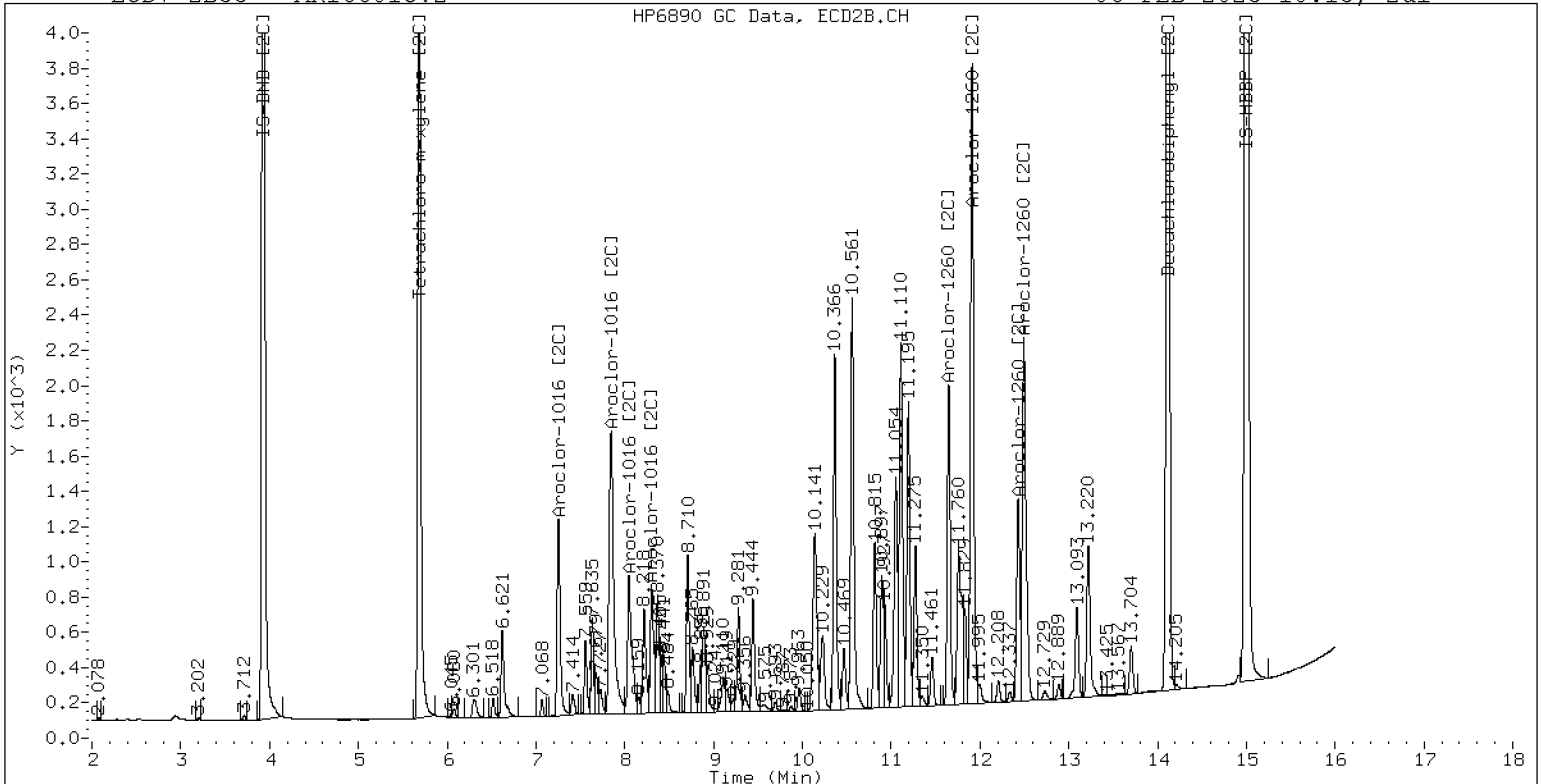
06-FEB-2023 10:15, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660ICV2

06-FEB-2023 10:15, 2ul



ZB-35 Manual Integration: NO



## INITIAL CALIBRATION CHECK EPA 8082A

|  |                                     |
|--|-------------------------------------|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0179</u>                 |
| Client: <u>Anchor OEA, LLC</u>               | Project: <u>AOC5 MR Phase 1</u>     |
| Instrument ID: <u>ECD7</u>                   | Calibration: <u>GE00022</u>         |
| Lab File ID: <u>05182302ECD7.D</u>           | Calibration Date: <u>05/05/2023</u> |
| Sequence: <u>SLE0303</u>                     | Injection Date: <u>05/18/23</u>     |
| Lab Sample ID: <u>SLE0303-ICV1</u>           | Injection Time: <u>11:32</u>        |
| Sequence Name: <u>AR1254ICV1</u>             |                                     |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------|-----------|-----|--------------|-------|
|                            |      | STD          | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT |
| Aroclor 1254               | A    | 250.00       | 264  | 0.0675033       | 0.0716950 |     | 5.6          | +/-20 |
| Aroclor-1254 (1)           | A    | 250.00       | 250  | 0.0822219       | 0.0820843 |     |              |       |
| Aroclor-1254 (2)           | A    | 250.00       | 258  | 0.0369425       | 0.0381814 |     |              |       |
| Aroclor-1254 (3)           | A    | 250.00       | 266  | 0.0530793       | 0.0564977 |     |              |       |
| Aroclor-1254 (4)           | A    | 250.00       | 271  | 0.1039691       | 0.1127159 |     |              |       |
| Aroclor-1254 (5)           | A    | 250.00       | 275  | 0.0627908       | 0.0689959 |     |              |       |
| Aroclor 1254 [2C]          | A    | 250.00       | 258  | 0.0733219       | 0.0744554 |     | 3.2          | +/-20 |
| Aroclor-1254 (1) [2C]      | A    | 250.00       | 260  | 0.0607810       | 0.0632330 |     |              |       |
| Aroclor-1254 (2) [2C]      | A    | 250.00       | 254  | 0.0361074       | 0.0366474 |     |              |       |
| Aroclor-1254 (3) [2C]      | A    | 250.00       | 261  | 0.0492663       | 0.0514528 |     |              |       |
| Aroclor-1254 (4) [2C]      | A    | 250.00       | 258  | 0.1075138       | 0.1111728 |     |              |       |
| Aroclor-1254 (5) [2C]      | A    | 250.00       | 257  | 0.1066699       | 0.1097709 |     |              |       |
| Decachlorobiphenyl         | A    | 40.000       | 39.7 | 0.7991406       | 0.7927890 |     | -0.8         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 39.5 | 1.2048230       | 1.1886280 |     | -1.3         | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 41.6 | 1.1360140       | 1.1831300 |     | 4.0          | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 41.0 | 1.1005470       | 1.1286140 |     | 2.5          | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230518.b/05182302ECD7.D  
Data file 2: /230518.b/230518.b/05182302ECD7.D  
Method: \\target\share\chem4\ecd7.i\230518.b\PCB.m  
Compound Sublist: AR1254.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1254ICV1  
Client ID:  
Injection Date: 18-MAY-2023 11:32  
Report Date: 05/18/2023 15:28  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.744  | 0.000         | 359920   | 5.628  | -0.001         | 202479   | 39.5       | 41.0        | 3.9 | Tetrachloro-m-xylene |
| 13.841 | 0.000         | 385674   | 14.067 | -0.000         | 375535   | 39.7       | 41.7        | 4.9 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 605606      | 0.7  |
| Hexabromobiphenyl  | 876625         | 972955      | 11.0 |
| Column 2           |                |             |      |
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 349289         | 358810      | 2.7  |
| Hexabromobiphenyl  | 652984         | 634816      | -2.8 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023

<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col                 |       |        |       |        |         |  |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|-------|--------|---------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                   | Peak# | RT     | Shift | Area   | Amount  |  |
| Aroclor-1254             | 1     | 9.246  | 0.002  | 155346 | 249.6                    | 1     | 9.402  | 0.000 | 70902  | 260.1   |  |
| Aroclor-1254             | 2     | 9.324  | -0.000 | 72259  | 258.4                    | 2     | 9.495  | 0.000 | 41092  | 253.7   |  |
| Aroclor-1254             | 3     | 9.615  | 0.000  | 106923 | 266.1                    | 3     | 9.921  | 0.000 | 57693  | 261.1   |  |
| Aroclor-1254             | 4     | 9.753  | -0.000 | 213317 | 271.0                    | 4     | 10.074 | 0.000 | 124656 | 258.5   |  |
| Aroclor-1254             | 5     | 10.119 | -0.002 | 130576 | 274.7                    | 5     | 10.324 | 0.000 | 123084 | 257.3   |  |
| Total Col1Ave (5 peaks): |       |        |        | 264.0  | Total Col2Ave (5 peaks): |       |        |       | 258.1  | RPD = 2 |  |
| Corrected Ave (4 peaks): |       |        |        | 261.3  | Corrected Ave (4 peaks): |       |        |       | 257.4  | RPD = 1 |  |
| CalAmt %D:               |       |        |        | 5.6    | CalAmt %D:               |       |        |       | 3.3    |         |  |

Total PCB Area Col1 (5.843 - 13.740) = 2182031 Col1 Total PCB = 0.3 ppm\*

Total PCB Area Col2 (5.729 - 13.967) = 1209748 Col2 Total PCB = 0.3 ppm\*

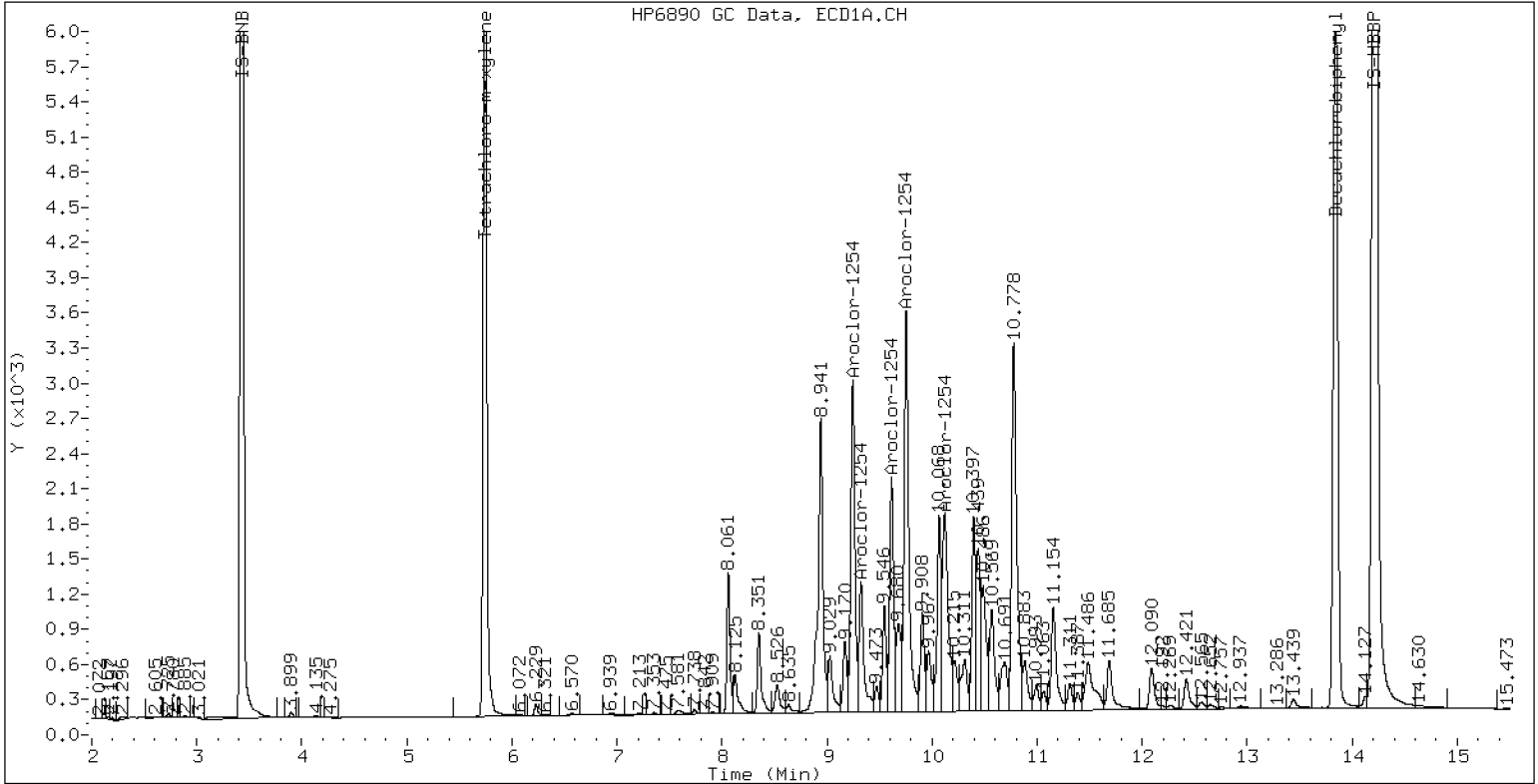
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1

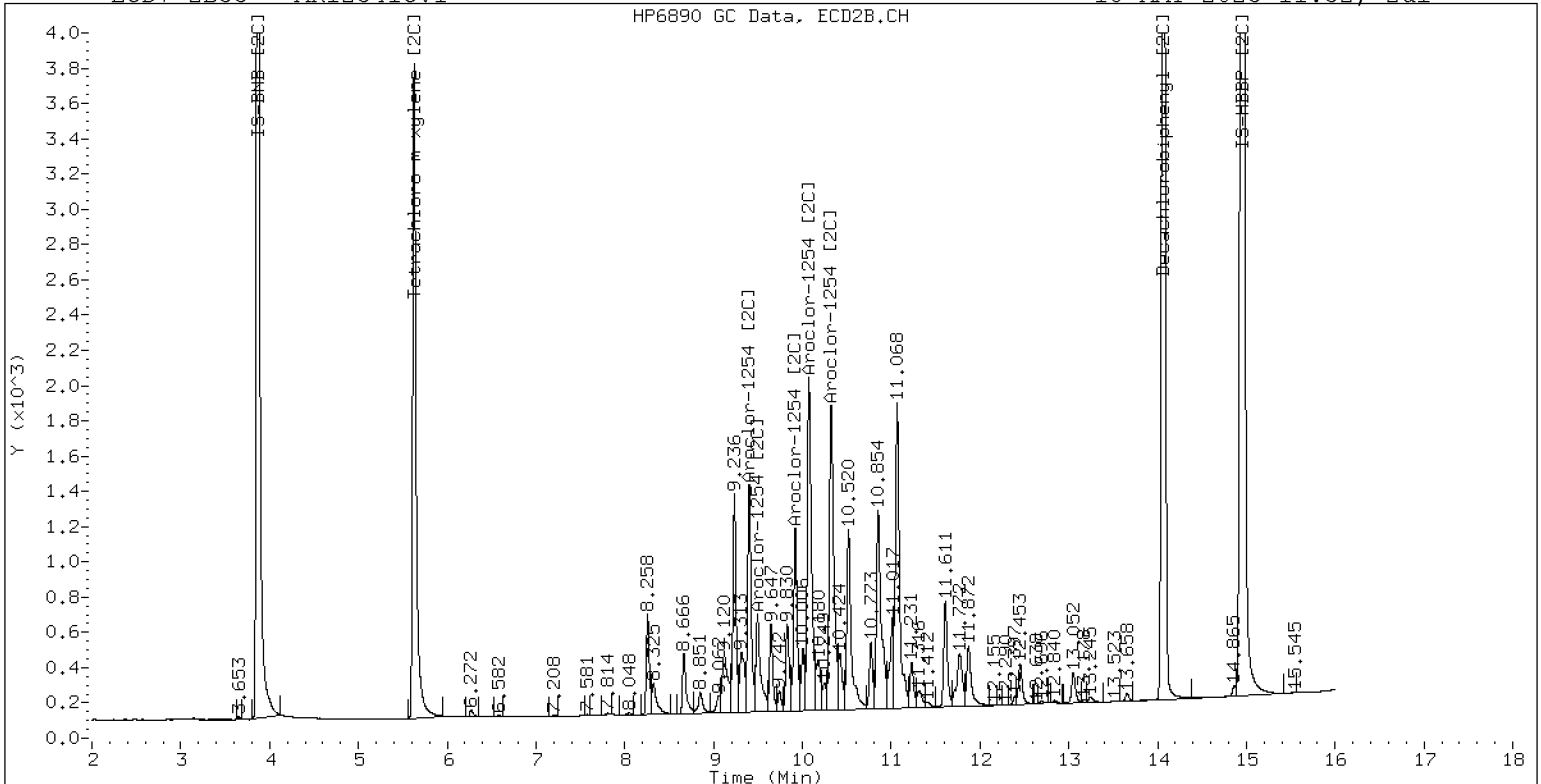
18-MAY-2023 11:32, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254ICV1

18-MAY-2023 11:32, 2ul



ZB-35 Manual Integration: NO





**INITIAL CALIBRATION CHECK**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ECD7

Calibration: GE00022

Lab File ID: 05182303ECD7.D

Calibration Date: 05/05/2023

Sequence: SLE0303

Injection Date: 05/18/23

Lab Sample ID: SLE0303-ICV2

Injection Time: 11:53

Sequence Name: AR1660ICV2

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------|-----------|-----|--------------|-------|
|                            |      | STD          | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT |
| Aroclor 1016               | A    | 250.00       | 259  | 0.0477728       | 0.0502703 |     | 3.6          | +/-20 |
| Aroclor-1016 (1)           | A    | 250.00       | 255  | 0.0309764       | 0.0316145 |     | 2.0          |       |
| Aroclor-1016 (2)           | A    | 250.00       | 270  | 0.0968611       | 0.1048103 |     | 8.0          |       |
| Aroclor-1016 (3)           | A    | 250.00       | 255  | 0.0447793       | 0.0457334 |     | 2.0          |       |
| Aroclor-1016 (4)           | A    | 250.00       | 256  | 0.0184745       | 0.0189232 |     | 2.4          |       |
| Aroclor 1016 [2C]          | A    | 250.00       | 251  | 0.0545435       | 0.0554344 |     | 0.5          | +/-20 |
| Aroclor-1016 (1) [2C]      | A    | 250.00       | 243  | 0.0452861       | 0.0440590 |     | -2.8         |       |
| Aroclor-1016 (2) [2C]      | A    | 250.00       | 263  | 0.0965080       | 0.1015435 |     | 5.2          |       |
| Aroclor-1016 (3) [2C]      | A    | 250.00       | 250  | 0.0425661       | 0.0424858 |     | 0.0          |       |
| Aroclor-1016 (4) [2C]      | A    | 250.00       | 249  | 0.0338137       | 0.0336494 |     | -0.4         |       |
| Aroclor 1260               | A    | 250.00       | 249  | 0.0524306       | 0.0524976 |     | -0.4         | +/-20 |
| Aroclor-1260 (1)           | A    | 250.00       | 244  | 0.0423031       | 0.0413684 |     | -2.4         |       |
| Aroclor-1260 (2)           | A    | 250.00       | 249  | 0.0417493       | 0.0415459 |     | -0.4         |       |
| Aroclor-1260 (3)           | A    | 250.00       | 252  | 0.1045597       | 0.1055231 |     | 0.8          |       |
| Aroclor-1260 (4)           | A    | 250.00       | 254  | 0.0512104       | 0.0521145 |     | 1.6          |       |
| Aroclor-1260 (5)           | A    | 250.00       | 246  | 0.0223305       | 0.0219363 |     | -1.6         |       |
| Aroclor 1260 [2C]          | A    | 250.00       | 261  | 0.0638471       | 0.0667570 |     | 4.2          | +/-20 |
| Aroclor-1260 (1) [2C]      | A    | 250.00       | 257  | 0.0424868       | 0.0437359 |     | 2.8          |       |
| Aroclor-1260 (2) [2C]      | A    | 250.00       | 264  | 0.1111292       | 0.1171624 |     | 5.6          |       |
| Aroclor-1260 (3) [2C]      | A    | 250.00       | 261  | 0.0275392       | 0.0287733 |     | 4.4          |       |
| Aroclor-1260 (4) [2C]      | A    | 250.00       | 260  | 0.0742331       | 0.0773561 |     | 4.0          |       |
| Decachlorobiphenyl         | A    | 40.000       | 40.0 | 0.7991406       | 0.7988100 |     | 0.0          | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 41.1 | 1.2048230       | 1.2393440 |     | 2.8          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 42.3 | 1.1360140       | 1.2005650 |     | 5.8          | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 41.4 | 1.1005470       | 1.1380860 |     | 3.5          | +/-20 |

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230518.b/05182303ECD7.D  
Data file 2: /230518.b/230518.b/05182303ECD7.D  
Method: \\target\share\chem4\ecd7.i\230518.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660ICV2  
Client ID:  
Injection Date: 18-MAY-2023 11:53  
Report Date: 05/18/2023 15:28  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        |          | ZB35 Col |        |          | ZB5    | ZB35   | RPD | Compound/Flag        |
|---------|--------|----------|----------|--------|----------|--------|--------|-----|----------------------|
| RT      | Shift  | Response | RT       | Shift  | Response | on col | on col |     |                      |
| 5.742   | -0.001 | 359333   | 5.628    | -0.001 | 198510   | 41.1   | 41.4   | 0.5 | Tetrachloro-m-xylene |
| 13.841  | 0.001  | 381012   | 14.069   | 0.002  | 376259   | 40.0   | 42.3   | 5.6 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 579876      | -3.6 |
| Hexabromobiphenyl  | 876625         | 953949      | 8.8  |

| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 349289         | 348849      | -0.1 |
| Hexabromobiphenyl  | 652984         | 626803      | -4.0 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |        |        | ZB35 Col |                          |       |        |        |               |
|--------------------------|-------|-------|--------|--------|----------|--------------------------|-------|--------|--------|---------------|
| Aroclor                  | Peak# | RT    | Shift  | Area   | Amount   | Peak#                    | RT    | Shift  | Area   | Amount        |
| Aroclor-1016             | 1     | 7.213 | -0.000 | 57289  | 255.2    | 1                        | 7.204 | -0.000 | 48031  | 243.2         |
| Aroclor-1016             | 2     | 7.594 | -0.001 | 189928 | 270.5    | 2                        | 7.809 | -0.001 | 110698 | 263.0         |
| Aroclor-1016             | 3     | 7.734 | -0.001 | 82874  | 255.3    | 3                        | 8.007 | -0.001 | 46316  | 249.5         |
| Aroclor-1016             | 4     | 8.399 | 0.000  | 34291  | 256.1    | 4                        | 8.259 | -0.001 | 36683  | 248.8         |
| Total CollAve (4 peaks): |       |       |        | 259.3  |          | Total Col2Ave (4 peaks): |       |        |        | 251.1 RPD = 3 |
| Corrected Ave (3 peaks): |       |       |        | 255.5  |          | Corrected Ave (3 peaks): |       |        |        | 247.2 RPD = 3 |

CalAmt %D: 3.7

CalAmt %D: 0.5

|                          |   |        |        |        |       |                          |        |        |        |               |
|--------------------------|---|--------|--------|--------|-------|--------------------------|--------|--------|--------|---------------|
| Aroclor-1260             | 1 | 10.994 | 0.000  | 123323 | 244.5 | 1                        | 11.605 | 0.001  | 85668  | 257.3         |
| Aroclor-1260             | 2 | 11.310 | -0.000 | 123852 | 248.8 | 2                        | 11.870 | -0.001 | 229493 | 263.6         |
| Aroclor-1260             | 3 | 11.685 | -0.000 | 314574 | 252.3 | 3                        | 12.387 | 0.000  | 56360  | 261.2         |
| Aroclor-1260             | 4 | 12.090 | -0.000 | 155358 | 254.4 | 4                        | 12.454 | -0.000 | 151522 | 260.5         |
| Aroclor-1260             | 5 | 12.193 | -0.000 | 65394  | 245.6 | NS                       | ---    |        |        | ----          |
| Total CollAve (5 peaks): |   |        |        | 249.1  |       | Total Col2Ave (4 peaks): |        |        |        | 260.7 RPD = 5 |
| Corrected Ave (4 peaks): |   |        |        | 247.8  |       | Corrected Ave (3 peaks): |        |        |        | 259.7 RPD = 5 |

CalAmt %D: -0.4

CalAmt %D: 4.3

Total PCB Area Coll (5.843 - 13.740) = 3451919 Coll Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.729 - 13.967) = 2091535 Col2 Total PCB = 0.5 ppm\*

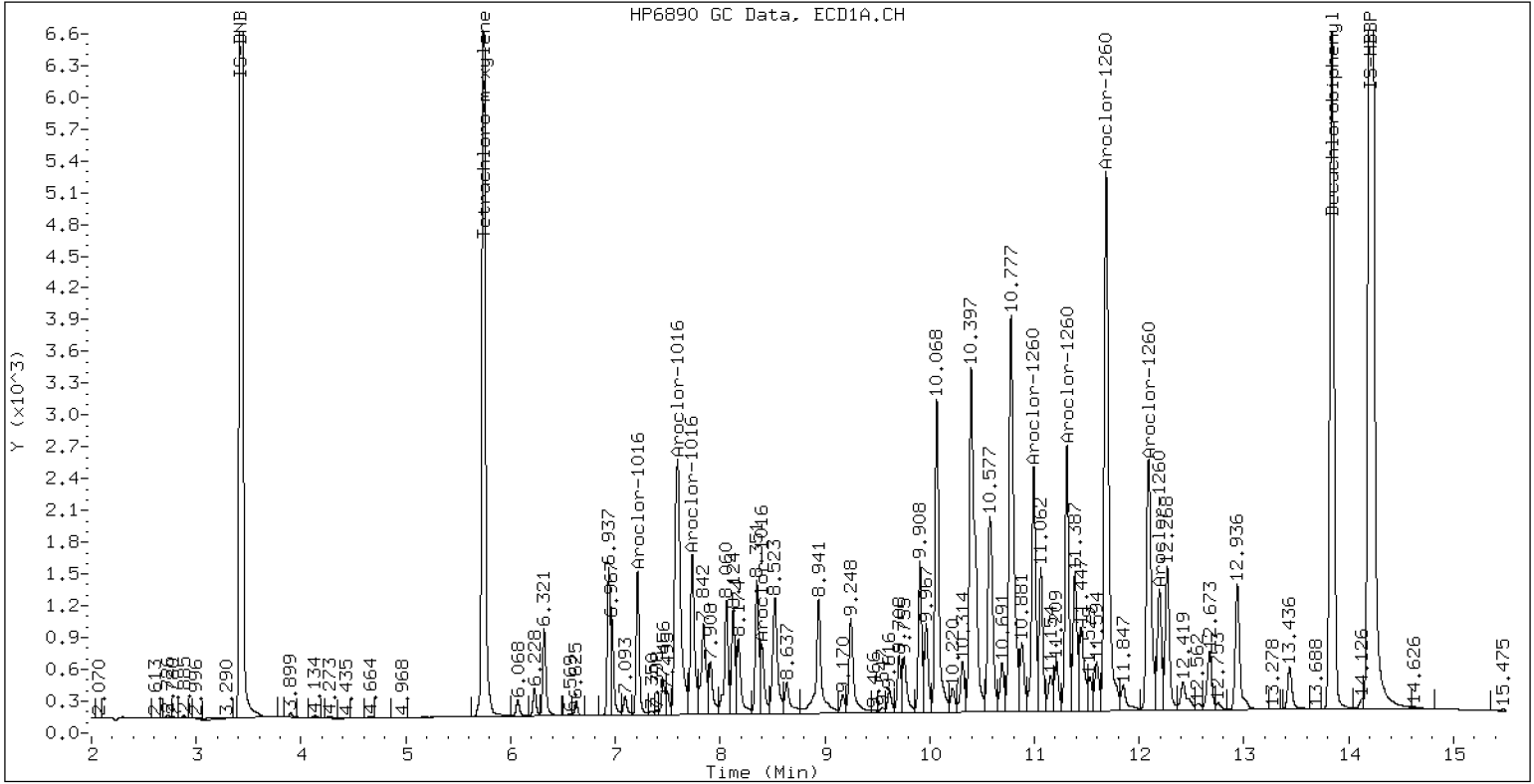
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2

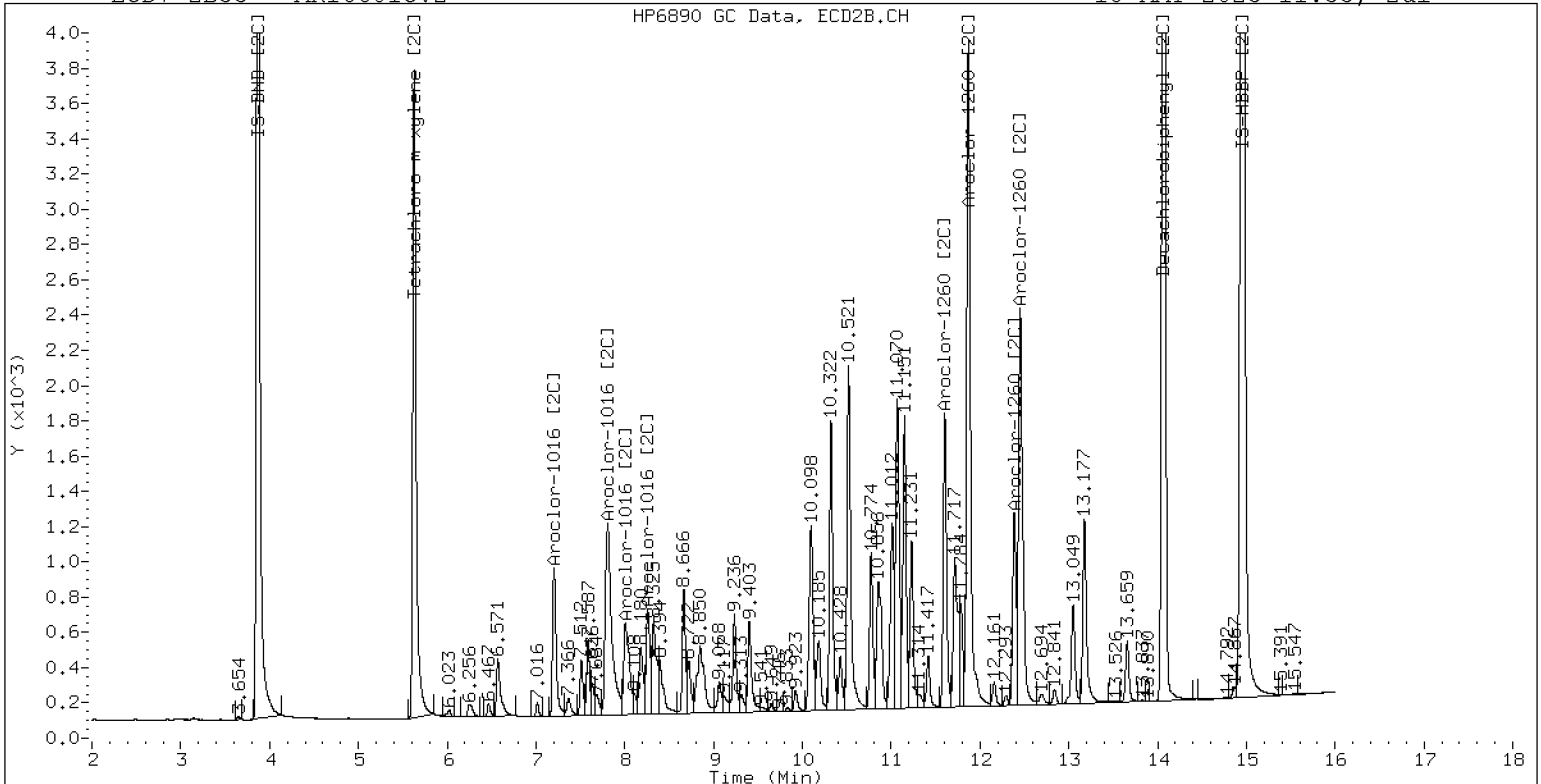
18-MAY-2023 11:53, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660ICV2

18-MAY-2023 11:53, 2ul



ZB-35 Manual Integration: NO



**INITIAL CALIBRATION CHECK**  
**EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor OEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GE00022</u>         |
| Lab File ID:   | <u>05312309ECD7.D</u>            | Calibration Date: | <u>05/05/2023</u>      |
| Sequence:      | <u>SLE0480</u>                   | Injection Date:   | <u>05/31/23</u>        |
| Lab Sample ID: | <u>SLE0480-ICV1</u>              | Injection Time:   | <u>15:11</u>           |
| Sequence Name: | <u>AR1254ICV1</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------|-----------|-----|--------------|-------|
|                            |      | STD          | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT |
| Aroclor 1254               | A    | 250.00       | 272  | 0.0675033       | 0.0737321 |     | 8.7          | +/-20 |
| Aroclor-1254 (1)           | A    | 250.00       | 254  | 0.0822219       | 0.0834920 |     |              |       |
| Aroclor-1254 (2)           | A    | 250.00       | 269  | 0.0369425       | 0.0397538 |     |              |       |
| Aroclor-1254 (3)           | A    | 250.00       | 274  | 0.0530793       | 0.0581794 |     |              |       |
| Aroclor-1254 (4)           | A    | 250.00       | 280  | 0.1039691       | 0.1164954 |     |              |       |
| Aroclor-1254 (5)           | A    | 250.00       | 282  | 0.0627908       | 0.0707397 |     |              |       |
| Aroclor 1254 [2C]          | A    | 250.00       | 254  | 0.0733219       | 0.0733594 |     | 1.7          | +/-20 |
| Aroclor-1254 (1) [2C]      | A    | 250.00       | 255  | 0.0607810       | 0.0619326 |     |              |       |
| Aroclor-1254 (2) [2C]      | A    | 250.00       | 250  | 0.0361074       | 0.0360962 |     |              |       |
| Aroclor-1254 (3) [2C]      | A    | 250.00       | 257  | 0.0492663       | 0.0506797 |     |              |       |
| Aroclor-1254 (4) [2C]      | A    | 250.00       | 256  | 0.1075138       | 0.1101200 |     |              |       |
| Aroclor-1254 (5) [2C]      | A    | 250.00       | 253  | 0.1066699       | 0.1079683 |     |              |       |
| Decachlorobiphenyl         | A    | 40.000       | 40.6 | 0.7991406       | 0.8110183 |     | 1.5          | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 38.8 | 1.2048230       | 1.1703900 |     | -3.0         | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 41.6 | 1.1360140       | 1.1826940 |     | 4.0          | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 39.0 | 1.1005470       | 1.0738300 |     | -2.5         | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230531.b/05312309ECD7.D  
Data file 2: /230531.b/230531.b/05312309ECD7.D  
Method: \\target\share\chem4\ecd7.i\230531.b\PCB.m  
Compound Sublist: AR1254.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1254ICV1  
Client ID:  
Injection Date: 31-MAY-2023 15:11  
Report Date: 06/01/2023 08:29  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.744  | 0.000         | 364766   | 5.629  | -0.004         | 194121   | 38.9       | 39.0        | 0.4 | Tetrachloro-m-xylene |
| 13.843 | 0.003         | 430055   | 14.069 | -0.001         | 377161   | 40.6       | 41.6        | 2.6 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 623324      | 3.6  |
| Hexabromobiphenyl  | 876625         | 1060531     | 21.0 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 349289         | 361549      | 3.5  |
| Hexabromobiphenyl  | 652984         | 637800      | -2.3 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |       |        |                          | ZB35 Col |        |       |        |         |  |
|--------------------------|-------|--------|-------|--------|--------------------------|----------|--------|-------|--------|---------|--|
| Aroclor                  | Peak# | RT     | Shift | Area   | Amount                   | Peak#    | RT     | Shift | Area   | Amount  |  |
| Aroclor-1254             | 1     | 9.248  | 0.004 | 162633 | 253.9                    | 1        | 9.404  | 0.000 | 69974  | 254.7   |  |
| Aroclor-1254             | 2     | 9.326  | 0.002 | 77436  | 269.0                    | 2        | 9.498  | 0.000 | 40783  | 249.9   |  |
| Aroclor-1254             | 3     | 9.618  | 0.003 | 113327 | 274.0                    | 3        | 9.923  | 0.000 | 57260  | 257.2   |  |
| Aroclor-1254             | 4     | 9.756  | 0.002 | 226920 | 280.1                    | 4        | 10.077 | 0.000 | 124418 | 256.1   |  |
| Aroclor-1254             | 5     | 10.123 | 0.002 | 137793 | 281.6                    | 5        | 10.327 | 0.000 | 121987 | 253.0   |  |
| Total CollAve (5 peaks): |       |        |       | 271.7  | Total Col2Ave (5 peaks): |          |        |       | 254.2  | RPD = 7 |  |
| Corrected Ave (4 peaks): |       |        |       | 269.3  | Corrected Ave (4 peaks): |          |        |       | 253.4  | RPD = 6 |  |
| CalAmt %D:               |       |        |       | 8.7    | CalAmt %D:               |          |        |       | 1.7    |         |  |

Total PCB Area Col1 (5.843 - 13.740) = 2325447 Col1 Total PCB = 0.3 ppm\*

Total PCB Area Col2 (5.733 - 13.970) = 1198239 Col2 Total PCB = 0.3 ppm\*

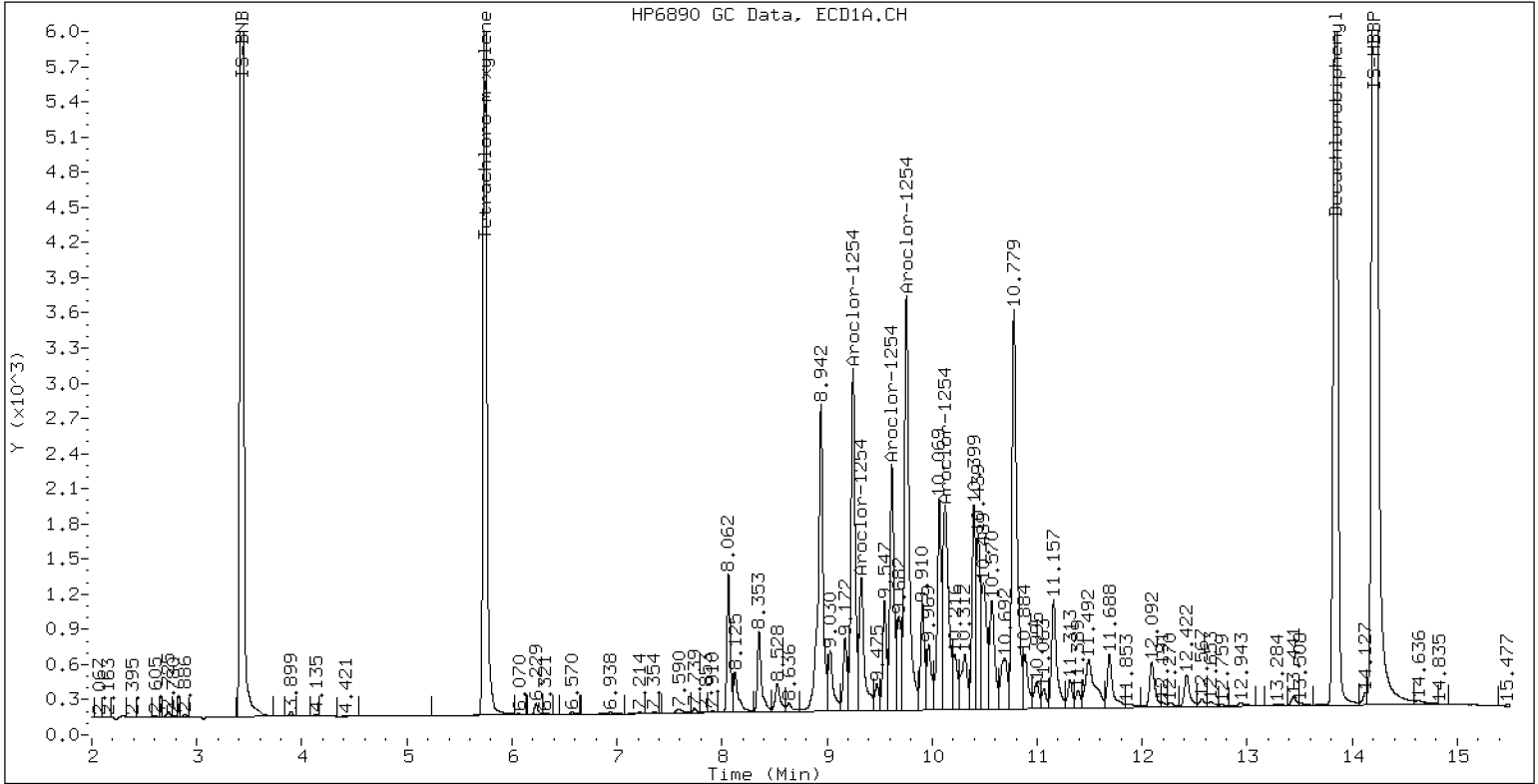
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1

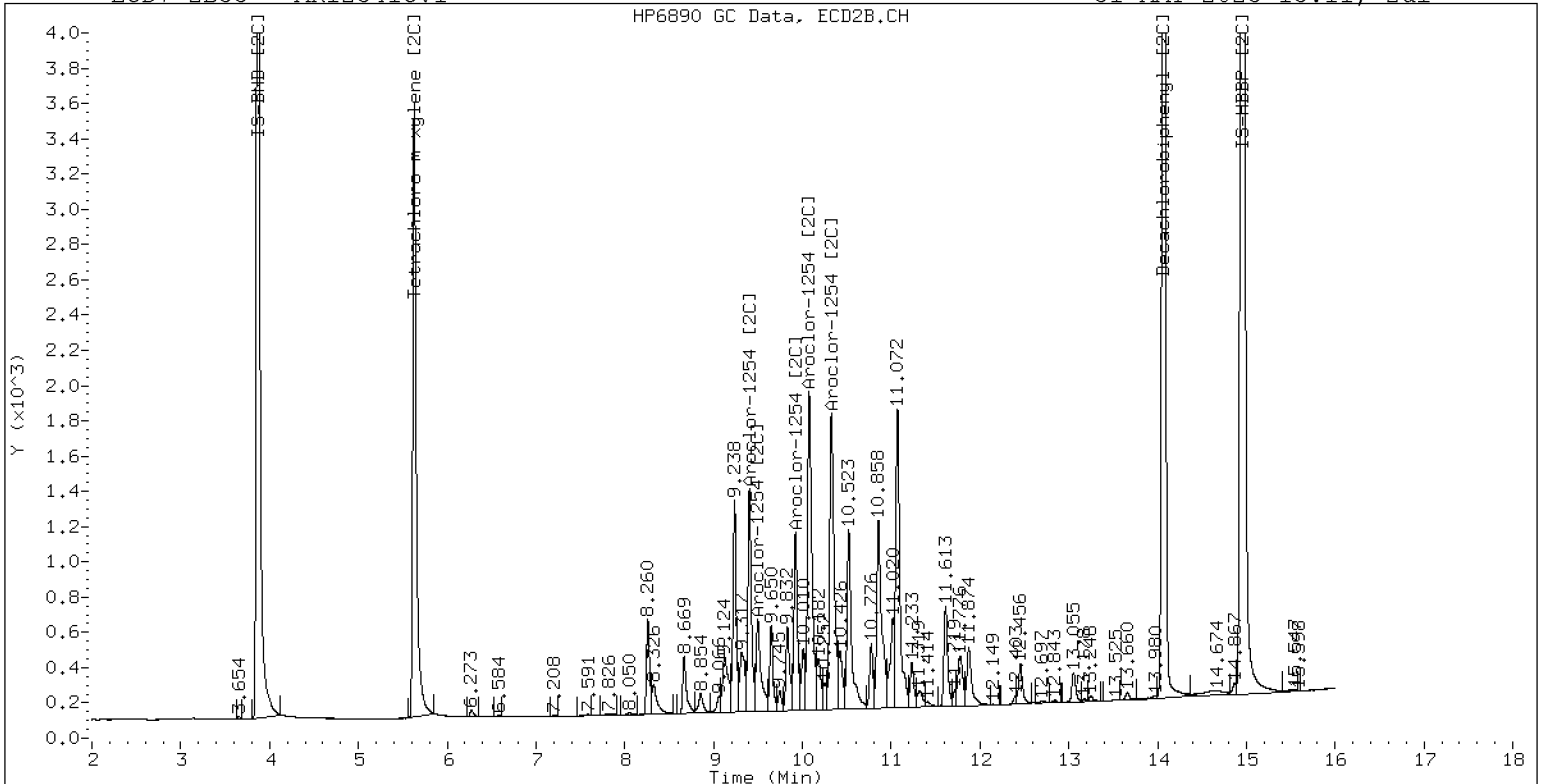
31-MAY-2023 15:11, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254ICV1

31-MAY-2023 15:11, 2ul



ZB-35 Manual Integration: NO





**INITIAL CALIBRATION CHECK**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ECD7

Calibration: GE00022

Lab File ID: 05312310ECD7.D

Calibration Date: 05/05/2023

Sequence: SLE0480

Injection Date: 05/31/23

Lab Sample ID: SLE0480-ICV2

Injection Time: 15:32

Sequence Name: AR1660ICV2

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------|-----------|-----|--------------|-------|
|                            |      | STD          | ICV  | ICAL            | ICV       | MIN | ICV          | LIMIT |
| Aroclor 1016               | A    | 250.00       | 266  | 0.0477728       | 0.0511920 |     | 6.4          | +/-20 |
| Aroclor-1016 (1)           | A    | 250.00       | 260  | 0.0309764       | 0.0322691 |     | 4.0          |       |
| Aroclor-1016 (2)           | A    | 250.00       | 272  | 0.0968611       | 0.1055440 |     | 8.8          |       |
| Aroclor-1016 (3)           | A    | 250.00       | 262  | 0.0447793       | 0.0470199 |     | 4.8          |       |
| Aroclor-1016 (4)           | A    | 250.00       | 270  | 0.0184745       | 0.0199352 |     | 8.0          |       |
| Aroclor 1016 [2C]          | A    | 250.00       | 246  | 0.0545435       | 0.0539617 |     | -1.7         | +/-20 |
| Aroclor-1016 (1) [2C]      | A    | 250.00       | 240  | 0.0452861       | 0.0433957 |     | -4.0         |       |
| Aroclor-1016 (2) [2C]      | A    | 250.00       | 253  | 0.0965080       | 0.0976246 |     | 1.2          |       |
| Aroclor-1016 (3) [2C]      | A    | 250.00       | 245  | 0.0425661       | 0.0417184 |     | -2.0         |       |
| Aroclor-1016 (4) [2C]      | A    | 250.00       | 245  | 0.0338137       | 0.0331082 |     | -2.0         |       |
| Aroclor 1260               | A    | 250.00       | 254  | 0.0524306       | 0.0534852 |     | 1.7          | +/-20 |
| Aroclor-1260 (1)           | A    | 250.00       | 245  | 0.0423031       | 0.0415080 |     | -2.0         |       |
| Aroclor-1260 (2)           | A    | 250.00       | 252  | 0.0417493       | 0.0420661 |     | 0.8          |       |
| Aroclor-1260 (3)           | A    | 250.00       | 257  | 0.1045597       | 0.1073283 |     | 2.8          |       |
| Aroclor-1260 (4)           | A    | 250.00       | 263  | 0.0512104       | 0.0538154 |     | 5.2          |       |
| Aroclor-1260 (5)           | A    | 250.00       | 254  | 0.0223305       | 0.0227084 |     | 1.6          |       |
| Aroclor 1260 [2C]          | A    | 250.00       | 266  | 0.0638471       | 0.0680508 |     | 6.3          | +/-20 |
| Aroclor-1260 (1) [2C]      | A    | 250.00       | 264  | 0.0424868       | 0.0448415 |     | 5.6          |       |
| Aroclor-1260 (2) [2C]      | A    | 250.00       | 268  | 0.1111292       | 0.1190359 |     | 7.2          |       |
| Aroclor-1260 (3) [2C]      | A    | 250.00       | 265  | 0.0275392       | 0.0291648 |     | 6.0          |       |
| Aroclor-1260 (4) [2C]      | A    | 250.00       | 266  | 0.0742331       | 0.0791608 |     | 6.4          |       |
| Decachlorobiphenyl         | A    | 40.000       | 41.1 | 0.7991406       | 0.8212347 |     | 2.8          | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 41.1 | 1.2048230       | 1.2390920 |     | 2.8          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 43.0 | 1.1360140       | 1.2205890 |     | 7.5          | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 40.8 | 1.1005470       | 1.1233100 |     | 2.0          | +/-20 |

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230531.b/05312310ECD7.D  
Data file 2: /230531.b/230531.b/05312310ECD7.D  
Method: \\target\share\chem4\ecd7.i\230531.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660ICV2  
Client ID:  
Injection Date: 31-MAY-2023 15:32  
Report Date: 06/01/2023 08:29  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.743   | -0.000 | 396207   | 5.630  | -0.003 | 214732   | 41.1   | 40.8 | 0.8           | Tetrachloro-m-xylene |
| 13.842  | 0.001  | 461237   | 14.070 | 0.000  | 408959   | 41.1   | 43.0 | 4.5           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 639512      | 6.3  |
| Hexabromobiphenyl  | 876625         | 1123277     | 28.1 |

| Column 2           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 382320      | 9.5 |
| Hexabromobiphenyl  | 652984         | 670101      | 2.6 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |       |        | ZB35 Col |                          |       |        |        |        |         |
|--------------------------|-------|-------|-------|--------|----------|--------------------------|-------|--------|--------|--------|---------|
| Aroclor                  | Peak# | RT    | Shift | Area   | Amount   | Peak#                    | RT    | Shift  | Area   | Amount |         |
| Aroclor-1016             | 1     | 7.213 | 0.000 | 64489  | 260.4    | 1                        | 7.204 | -0.002 | 51847  | 239.6  |         |
| Aroclor-1016             | 2     | 7.596 | 0.001 | 210927 | 272.4    | 2                        | 7.812 | -0.003 | 116637 | 252.9  |         |
| Aroclor-1016             | 3     | 7.735 | 0.001 | 93968  | 262.5    | 3                        | 8.012 | -0.002 | 49843  | 245.0  |         |
| Aroclor-1016             | 4     | 8.399 | 0.001 | 39840  | 269.8    | 4                        | 8.261 | -0.002 | 39556  | 244.8  |         |
| Total CollAve (4 peaks): |       |       |       | 266.3  |          | Total Col2Ave (4 peaks): |       |        |        | 245.6  | RPD = 8 |
| Corrected Ave (3 peaks): |       |       |       | 264.2  |          | Corrected Ave (3 peaks): |       |        |        | 243.1  | RPD = 8 |

CalAmt %D: 6.5

CalAmt %D: -1.8

|                          |   |        |       |        |       |                          |        |        |        |       |         |
|--------------------------|---|--------|-------|--------|-------|--------------------------|--------|--------|--------|-------|---------|
| Aroclor-1260             | 1 | 10.995 | 0.001 | 145703 | 245.3 | 1                        | 11.606 | -0.001 | 93901  | 263.9 |         |
| Aroclor-1260             | 2 | 11.311 | 0.000 | 147662 | 251.9 | 2                        | 11.873 | -0.001 | 249269 | 267.8 |         |
| Aroclor-1260             | 3 | 11.687 | 0.002 | 376748 | 256.6 | 3                        | 12.390 | -0.000 | 61073  | 264.8 |         |
| Aroclor-1260             | 4 | 12.091 | 0.000 | 188905 | 262.7 | 4                        | 12.455 | -0.002 | 165768 | 266.6 |         |
| Aroclor-1260             | 5 | 12.195 | 0.001 | 79712  | 254.2 | NS                       | ---    |        |        | ----  |         |
| Total CollAve (5 peaks): |   |        |       | 254.2  |       | Total Col2Ave (4 peaks): |        |        |        | 265.7 | RPD = 4 |
| Corrected Ave (4 peaks): |   |        |       | 252.0  |       | Corrected Ave (3 peaks): |        |        |        | 265.1 | RPD = 5 |

CalAmt %D: 1.7

CalAmt %D: 6.3

Total PCB Area Coll (5.843 - 13.740) = 4090095 Coll Total PCB = 0.6 ppm\*

Total PCB Area Col2 (5.733 - 13.970) = 2263036 Col2 Total PCB = 0.5 ppm\*

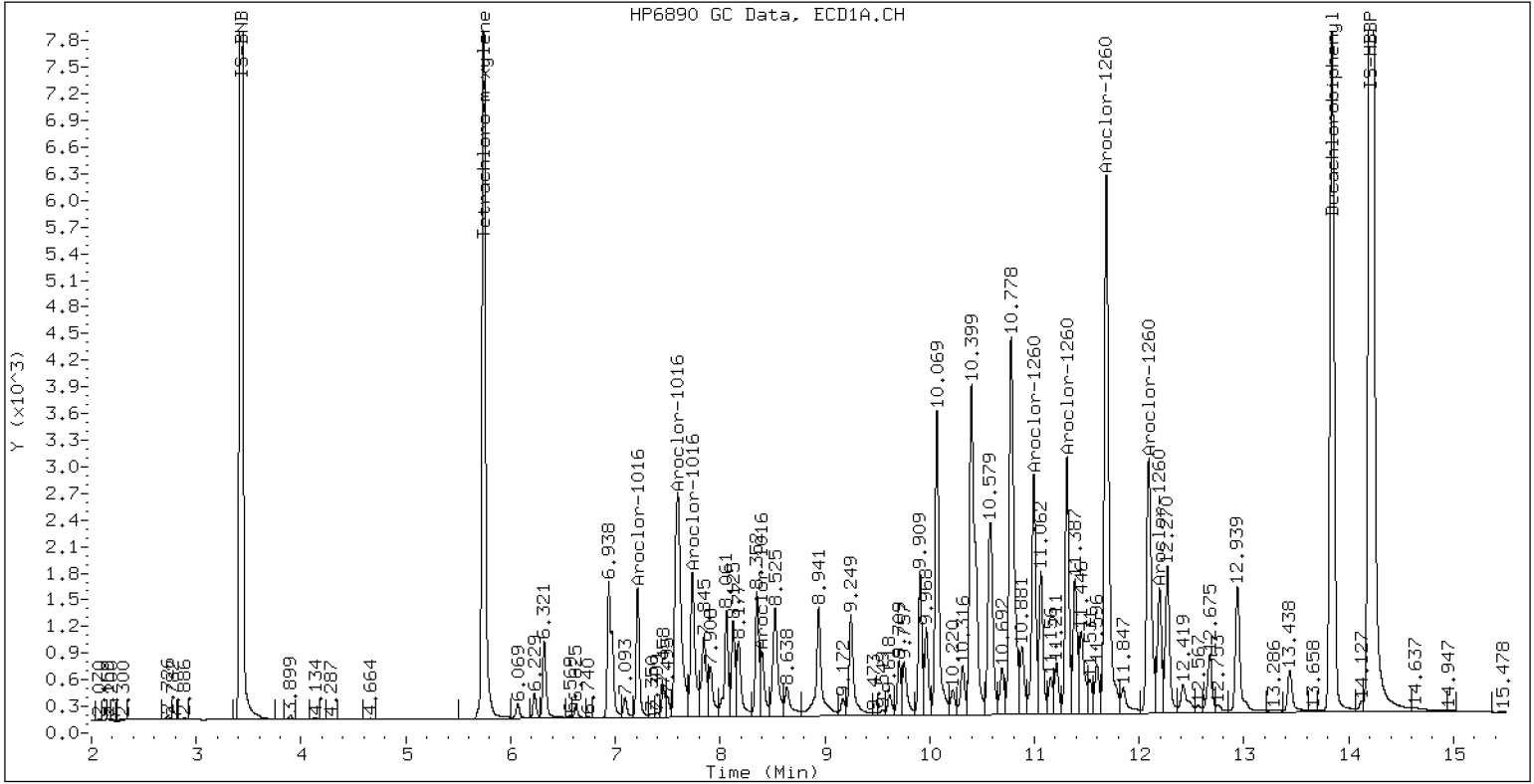
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2

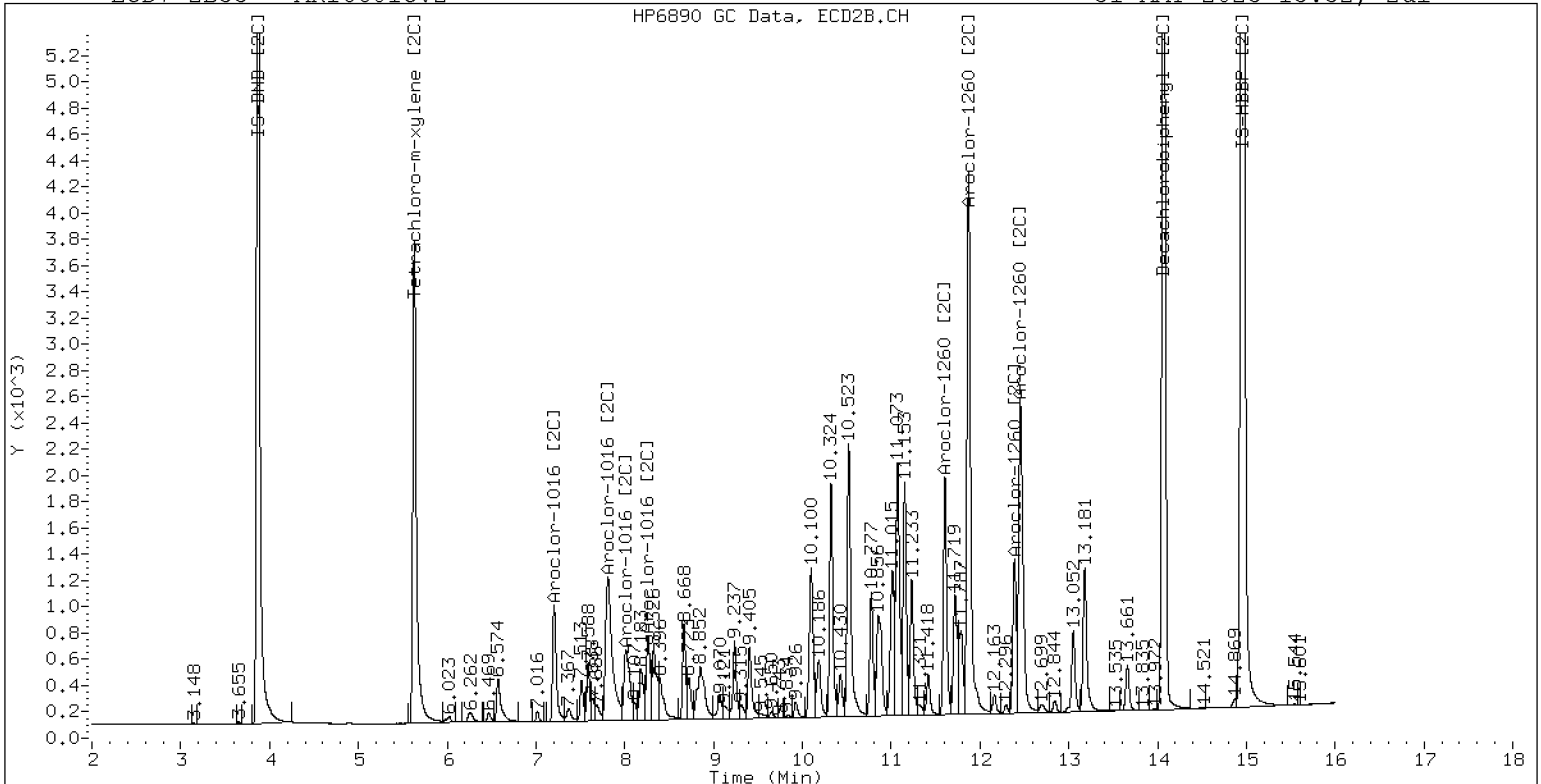
31-MAY-2023 15:32, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660ICV2

31-MAY-2023 15:32, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE  
CONTINUING CALIBRATION CHECK  
EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GA00061</u>         |
| Lab File ID:   | <u>01242324ECD7.D</u>            | Calibration Date: | <u>01/24/2023</u>      |
| Sequence:      | <u>SLA0281</u>                   | Injection Date:   | <u>01/24/23</u>        |
| Lab Sample ID: | <u>SLA0281-SCV1</u>              | Injection Time:   | <u>19:51</u>           |
| Sequence Name: | <u>AR1660SCV1</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1016               | A    | 250.00       | 217  | 0.0506755             | 0.0439293 |     | -13.2        | +/-20 |
| Aroclor 1016 [2C]          | A    | 250.00       | 220  | 0.0519244             | 0.0458194 |     | -11.9        | +/-20 |
| Aroclor 1260               | A    | 250.00       | 211  | 0.0605224             | 0.0508252 |     | -15.7        | +/-20 |
| Aroclor 1260 [2C]          | A    | 250.00       | 238  | 0.0836545             | 0.0795027 |     | -4.9         | +/-20 |
| Decachlorobiphenyl         | A    | 40.000       | 37.9 | 0.8555994             | 0.8115673 |     | -5.1         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 37.5 | 1.1307870             | 1.0610020 |     | -6.2         | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 40.2 | 1.2696430             | 1.2773160 |     | 0.6          | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 37.3 | 1.0814980             | 1.0082190 |     | -6.8         | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242324ECD7.D  
Data file 2: /230124.b/230124.b/01242324ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660 SCV  
Client ID:  
Injection Date: 24-JAN-2023 19:51  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.809  | -0.000        | 268739   | 5.686  | -0.001         | 172961   | 37.5       | 37.3        | 0.6 | Tetrachloro-m-xylene |
| 13.891 | -0.000        | 381489   | 14.121 | 0.001          | 320416   | 37.9       | 40.2        | 5.9 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 506576      | 0.6  |
| Hexabromobiphenyl  | 647433         | 940129      | 45.2 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 343102      | 1.8  |
| Hexabromobiphenyl  | 382032         | 501702      | 31.3 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |        |                 |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|-----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area   | Amount          |
| Aroclor-1016             | 1     | 7.271  | 0.001  | 40958  | 217.6    | 1                        | 7.255  | 0.001  | 40190  | 216.0           |
| Aroclor-1016             | 2     | 7.655  | 0.004  | 135282 | 216.9    | 2                        | 7.852  | 0.001  | 90338  | 221.5           |
| Aroclor-1016             | 3     | 7.791  | 0.003  | 61557  | 214.5    | 3                        | 8.052  | 0.002  | 37810  | 227.2           |
| Aroclor-1016             | 4     | 8.406  | 0.002  | 40372  | 218.7    | 4                        | 8.306  | 0.000  | 28171  | 215.9           |
| Total CollAve (4 peaks): |       |        |        | 216.9  |          | Total Col2Ave (4 peaks): |        |        |        | 220.2 RPD = 1   |
| Corrected Ave (3 peaks): |       |        |        | 216.3  |          | Corrected Ave (3 peaks): |        |        |        | 217.8 RPD = 1   |
| Aroclor-1221             | 1     | 4.732  | -0.001 | 256    | 6.8      | 1                        | ---    |        |        | 0.0             |
| Aroclor-1221             | 2     | 6.131  | -0.002 | 4742   | 61.9     | 2                        | 6.302  | 0.004  | 5037   | 91.4            |
| Aroclor-1221             | 3     | 6.384  | -0.000 | 27448  | 154.4    | 3                        | 6.623  | -0.000 | 18931  | 203.5           |
| Total CollAve (3 peaks): |       |        |        | 74.4   |          | Col2Ave: <3 Quant Peaks  |        |        |        |                 |
| Aroclor-1232             | 1     | 4.732  | -0.001 | 256    | 11.0     | 1                        | ---    |        |        | 0.0             |
| Aroclor-1232             | 2     | 6.131  | -0.002 | 4742   | 90.0     | 2                        | 7.255  | -0.001 | 40190  | 470.8           |
| Aroclor-1232             | 3     | 7.655  | -0.004 | 135282 | 513.5    | 3                        | 7.852  | -0.002 | 90338  | 519.5           |
| Aroclor-1232             | 4     | 8.581  | -0.003 | 56938  | 504.9    | 4                        | 8.713  | -0.001 | 27776  | 574.9           |
| Total CollAve (4 peaks): |       |        |        | 279.8  |          | Total Col2Ave (3 peaks): |        |        |        | 521.7 RPD = 60* |
| Corrected Ave (3 peaks): |       |        |        | 202.0  |          | Corrected Ave: < 3 Peaks |        |        |        |                 |
| Aroclor-1242             | 1     | 7.271  | -0.000 | 40958  | 264.0    | 1                        | 7.255  | -0.000 | 40190  | 267.8           |
| Aroclor-1242             | 2     | 7.655  | -0.001 | 135282 | 266.5    | 2                        | 7.852  | -0.001 | 90338  | 271.0           |
| Aroclor-1242             | 3     | 8.406  | -0.001 | 40372  | 267.7    | 3                        | 9.115  | -0.045 | 15827  | 151.6           |
| Aroclor-1242             | 4     | 8.581  | -0.000 | 56938  | 249.9    | 4                        | 9.587  | 0.001  | 3186   | 23.0            |
| Total CollAve (4 peaks): |       |        |        | 262.0  |          | Total Col2Ave (4 peaks): |        |        |        | 178.4 RPD = 38  |
| Corrected Ave (3 peaks): |       |        |        | 260.1  |          | Corrected Ave (3 peaks): |        |        |        | 147.5 RPD = 55* |
| Aroclor-1248             | 1     | 8.406  | 0.000  | 40372  | 159.3    | 1                        | 8.306  | 0.000  | 28171  | 181.6           |
| Aroclor-1248             | 2     | 8.581  | 0.001  | 56938  | 176.1    | 2                        | 8.713  | 0.000  | 27776  | 166.4           |
| Aroclor-1248             | 3     | 8.995  | -0.004 | 58213  | 94.1     | 3                        | 9.115  | -0.042 | 15827  | 77.6            |
| Aroclor-1248             | 4     | 9.304  | 0.010  | 36620  | 119.6    | 4                        | 9.587  | 0.006  | 3186   | 12.6            |
| Total CollAve (4 peaks): |       |        |        | 137.3  |          | Total Col2Ave (4 peaks): |        |        |        | 109.6 RPD = 22  |
| Corrected Ave (3 peaks): |       |        |        | 124.4  |          | Corrected Ave (3 peaks): |        |        |        | 85.5 RPD = 37   |
| Aroclor-1254             | 1     | 9.304  | 0.005  | 36620  | 70.9     | 1                        | 9.450  | 0.002  | 20792  | 83.5            |
| Aroclor-1254             | 2     | ---    |        |        | 0.0      | 2                        | 9.972  | 0.003  | 2640   | 13.1            |
| Aroclor-1254             | 3     | 9.673  | 0.003  | 4075   | 12.3     | 3                        | 10.148 | 0.027  | 52902  | 120.5           |
| Aroclor-1254             | 4     | 9.813  | 0.004  | 14733  | 22.7     | 4                        | 10.372 | 0.000  | 71680  | 163.3           |
| Aroclor-1254             | 5     | 10.122 | -0.055 | 119528 | 283.6    | 5                        | 10.569 | -0.000 | 98559  | 403.2           |
| Total CollAve (4 peaks): |       |        |        | 97.4   |          | Total Col2Ave (5 peaks): |        |        |        | 156.7 RPD = 47* |
| Corrected Ave (3 peaks): |       |        |        | 35.3   |          | Corrected Ave (4 peaks): |        |        |        | 95.1 RPD = 92*  |
| Aroclor-1260             | 1     | 11.045 | 0.002  | 116435 | 220.7    | 1                        | 11.654 | 0.000  | 81795  | 226.0           |
| Aroclor-1260             | 2     | 11.362 | 0.001  | 116918 | 215.6    | 2                        | 11.920 | 0.002  | 217887 | 238.0           |
| Aroclor-1260             | 3     | 11.738 | 0.003  | 303264 | 212.5    | 3                        | 12.437 | 0.001  | 56212  | 246.3           |
| Aroclor-1260             | 4     | 12.143 | 0.004  | 141534 | 191.9    | 4                        | 12.502 | 0.000  | 142689 | 240.8           |
| Aroclor-1260             | 5     | 12.246 | 0.002  | 68446  | 212.9    | NS                       | ---    |        |        | ----            |
| Total CollAve (5 peaks): |       |        |        | 210.7  |          | Total Col2Ave (4 peaks): |        |        |        | 237.8 RPD = 12  |
| Corrected Ave (4 peaks): |       |        |        | 208.2  |          | Corrected Ave (3 peaks): |        |        |        | 234.9 RPD = 12  |
| Aroclor-1262             | 1     | 10.830 | -0.002 | 169725 | 446.4    | 1                        | 11.200 | 0.000  | 83995  | 171.1           |
| Aroclor-1262             | 2     | 12.246 | 0.000  | 68446  | 114.1    | 2                        | 11.654 | 0.001  | 81795  | 195.9           |
| Aroclor-1262             | 3     | 12.320 | -0.000 | 84201  | 129.2    | 3                        | 12.437 | 0.003  | 56212  | 126.4           |
| Aroclor-1262             | 4     | 12.989 | -0.000 | 78065  | 131.5    | 4                        | 12.502 | -0.001 | 142689 | 200.4           |
| Total CollAve (4 peaks): |       |        |        | 205.3  |          | Total Col2Ave (4 peaks): |        |        |        | 173.4 RPD = 17  |
| Corrected Ave (3 peaks): |       |        |        | 124.9  |          | Corrected Ave (3 peaks): |        |        |        | 164.5 RPD = 27  |
| Aroclor-1268             | 1     | 12.246 | 0.001  | 68446  | 44.1     | 1                        | 12.437 | 0.003  | 56212  | 48.0            |
| Aroclor-1268             | 2     | 12.320 | 0.002  | 84201  | 54.4     | 2                        | 12.502 | 0.001  | 142689 | 114.4           |
| Aroclor-1268             | 3     | 12.726 | 0.027  | 33020  | 25.7     | 3                        | 12.894 | 0.001  | 1495   | 1.4             |
| Aroclor-1268             | 4     | 13.490 | 0.001  | 16019  | 4.2      | 4                        | 13.709 | 0.001  | 10120  | 3.2             |
| Total CollAve (4 peaks): |       |        |        | 32.1   |          | Total Col2Ave (4 peaks): |        |        |        | 41.8 RPD = 26   |
| Corrected Ave (3 peaks): |       |        |        | 24.7   |          | Corrected Ave (3 peaks): |        |        |        | 17.5 RPD = 34   |

Total PCB Area Col1 (5.909 - 13.792) = 2789370 Col1 Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 1810543 Col2 Total PCB = 0.5 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

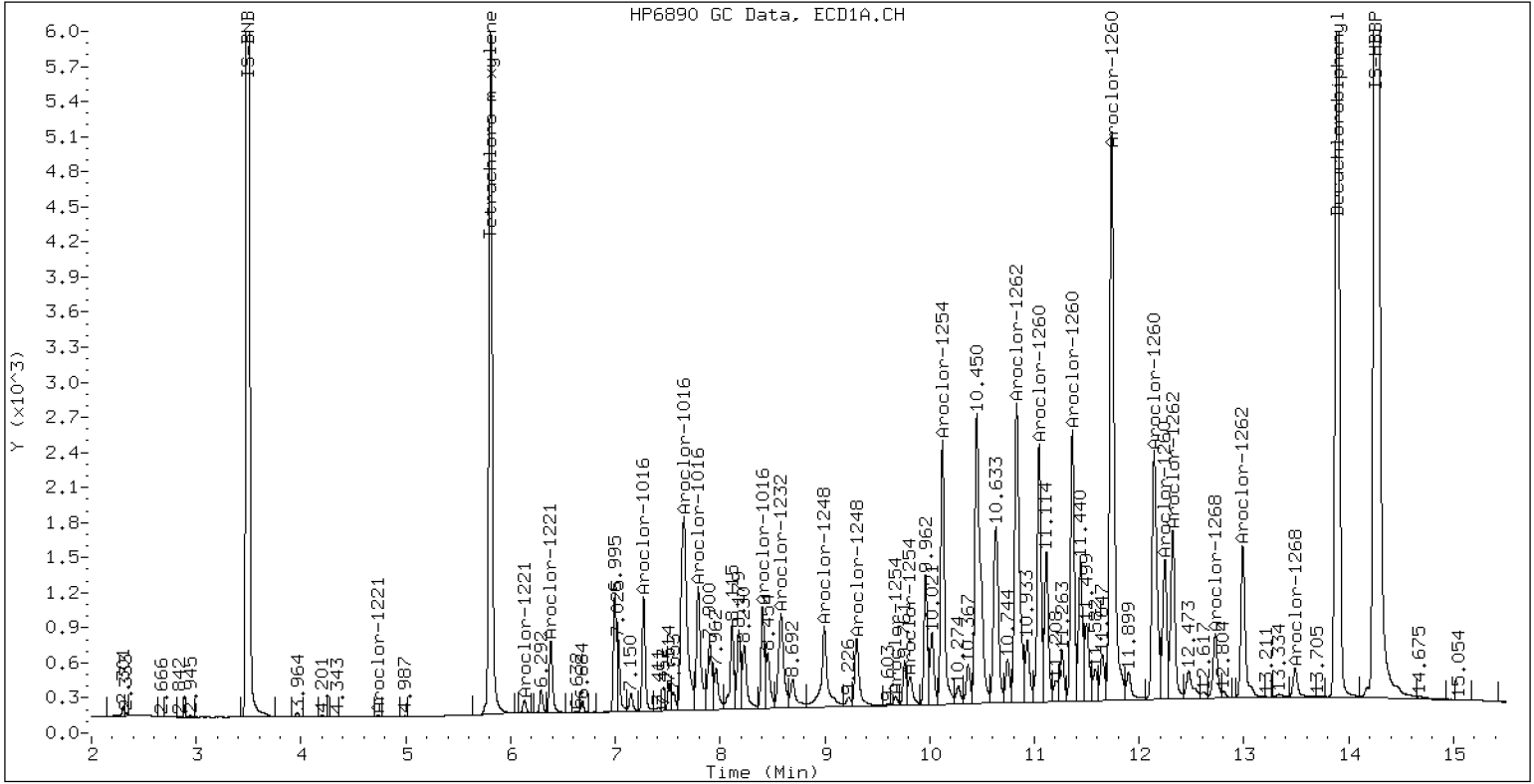
PCB-Form 10 Mod.



PCB Dual Column Chromatograms

ECD7-ZB5 AR1660 SCV

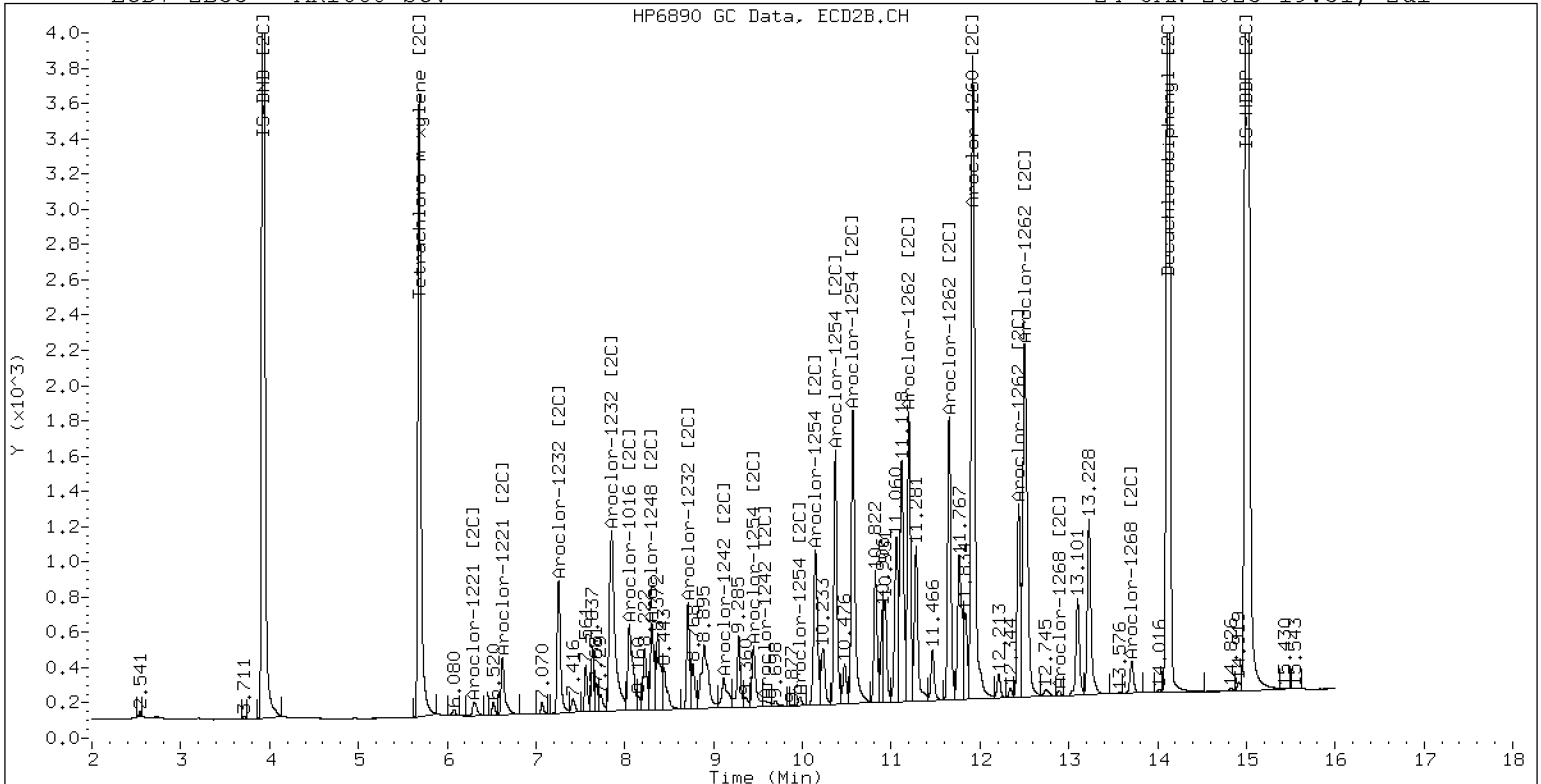
24-JAN-2023 19:51, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660 SCV

24-JAN-2023 19:51, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE  
CONTINUING CALIBRATION CHECK  
EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GA00061</u>         |
| Lab File ID:   | <u>01242325ECD7.D</u>            | Calibration Date: | <u>01/24/2023</u>      |
| Sequence:      | <u>SLA0281</u>                   | Injection Date:   | <u>01/24/23</u>        |
| Lab Sample ID: | <u>SLA0281-SCV2</u>              | Injection Time:   | <u>20:12</u>           |
| Sequence Name: | <u>AR1242SCV2</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1242               | A    | 250.00       | 223  | 0.0411165             | 0.0365437 |     | -10.9        | +/-20 |
| Aroclor 1242 [2C]          | A    | 250.00       | 235  | 0.0423236             | 0.0386405 |     | -5.9         | +/-20 |
| Decachlorobiphenyl         | A    | 40.000       | 38.5 | 0.8555994             | 0.8244733 |     | -3.6         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 37.8 | 1.1307870             | 1.0677240 |     | -5.6         | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 40.3 | 1.2696430             | 1.2804690 |     | 0.9          | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 37.4 | 1.0814980             | 1.0101840 |     | -6.6         | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242325ECD7.D  
Data file 2: /230124.b/230124.b/01242325ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1242 SCV  
Client ID:  
Injection Date: 24-JAN-2023 20:12  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.809   | -0.000 | 268580   | 5.686  | -0.001 | 172592   | 37.8   | 37.4 | 1.1           | Tetrachloro-m-xylene |
| 13.892  | 0.001  | 392918   | 14.121 | 0.001  | 323869   | 38.5   | 40.3 | 4.6           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 503089      | -0.0 |
| Hexabromobiphenyl  | 647433         | 953137      | 47.2 |

| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 341704      | 1.4  |
| Hexabromobiphenyl  | 382032         | 505860      | 32.4 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |       |                 |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|-------|-----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area  | Amount          |
| Aroclor-1016             | 1     | 7.271  | 0.001  | 29901  | 159.9    | 1                        | 7.255  | 0.000  | 32077 | 173.1           |
| Aroclor-1016             | 2     | 7.653  | 0.003  | 107333 | 173.3    | 2                        | 7.851  | -0.000 | 71438 | 175.9           |
| Aroclor-1016             | 3     | 7.790  | 0.002  | 45013  | 157.9    | 3                        | 8.051  | 0.001  | 29072 | 175.4           |
| Aroclor-1016             | 4     | 8.406  | 0.002  | 32958  | 179.8    | 4                        | 8.306  | 0.001  | 21761 | 167.5           |
| Total CollAve (4 peaks): |       |        |        | 167.7  |          | Total Col2Ave (4 peaks): |        |        |       | 173.0 RPD = 3   |
| Corrected Ave (3 peaks): |       |        |        | 163.7  |          | Corrected Ave (3 peaks): |        |        |       | 172.0 RPD = 5   |
| Aroclor-1221             | 1     | 4.737  | 0.004  | 141    | 3.8      | 1                        | ---    |        |       | 0.0             |
| Aroclor-1221             | 2     | 6.133  | -0.001 | 3649   | 48.0     | 2                        | 6.317  | 0.018  | 4290  | 78.2            |
| Aroclor-1221             | 3     | 6.384  | -0.000 | 21189  | 120.0    | 3                        | 6.624  | 0.001  | 14613 | 157.7           |
| Total CollAve (3 peaks): |       |        |        | 57.3   |          | Col2Ave: <3 Quant Peaks  |        |        |       |                 |
| Aroclor-1232             | 1     | 4.737  | 0.003  | 141    | 6.1      | 1                        | ---    |        |       | 0.0             |
| Aroclor-1232             | 2     | 6.133  | -0.001 | 3649   | 69.7     | 2                        | 7.255  | -0.002 | 32077 | 377.3           |
| Aroclor-1232             | 3     | 7.653  | -0.005 | 107333 | 410.2    | 3                        | 7.851  | -0.004 | 71438 | 412.5           |
| Aroclor-1232             | 4     | 8.581  | -0.003 | 59617  | 532.3    | 4                        | 8.713  | -0.000 | 22563 | 468.9           |
| Total CollAve (4 peaks): |       |        |        | 254.6  |          | Total Col2Ave (3 peaks): |        |        |       | 419.6 RPD = 49* |
| Corrected Ave (3 peaks): |       |        |        | 162.0  |          | Corrected Ave: < 3 Peaks |        |        |       |                 |
| Aroclor-1242             | 1     | 7.271  | 0.000  | 29901  | 194.1    | 1                        | 7.255  | -0.001 | 32077 | 214.6           |
| Aroclor-1242             | 2     | 7.653  | -0.002 | 107333 | 212.9    | 2                        | 7.851  | -0.002 | 71438 | 215.2           |
| Aroclor-1242             | 3     | 8.406  | -0.000 | 32958  | 220.0    | 3                        | 9.156  | -0.004 | 27374 | 263.3           |
| Aroclor-1242             | 4     | 8.581  | -0.000 | 59617  | 263.5    | 4                        | 9.581  | -0.006 | 34156 | 247.9           |
| Total CollAve (4 peaks): |       |        |        | 222.6  |          | Total Col2Ave (4 peaks): |        |        |       | 235.3 RPD = 6   |
| Corrected Ave (3 peaks): |       |        |        | 209.0  |          | Corrected Ave (3 peaks): |        |        |       | 225.9 RPD = 8   |
| Aroclor-1248             | 1     | 8.406  | 0.001  | 32958  | 131.0    | 1                        | 8.306  | 0.001  | 21761 | 140.9           |
| Aroclor-1248             | 2     | 8.581  | 0.001  | 59617  | 185.7    | 2                        | 8.713  | 0.001  | 22563 | 135.7           |
| Aroclor-1248             | 3     | 9.003  | 0.004  | 72557  | 118.2    | 3                        | 9.156  | -0.000 | 27374 | 134.7           |
| Aroclor-1248             | 4     | 9.296  | 0.003  | 28122  | 92.5     | 4                        | 9.581  | -0.001 | 34156 | 135.9           |
| Total CollAve (4 peaks): |       |        |        | 131.8  |          | Total Col2Ave (4 peaks): |        |        |       | 136.8 RPD = 4   |
| Corrected Ave (3 peaks): |       |        |        | 113.9  |          | Corrected Ave (3 peaks): |        |        |       | 135.5 RPD = 17  |
| Aroclor-1254             | 1     | 9.296  | -0.002 | 28122  | 54.8     | 1                        | 9.448  | 0.000  | 11650 | 47.0            |
| Aroclor-1254             | 2     | 9.380  | 0.002  | 9292   | 42.4     | 2                        | 9.968  | -0.001 | 7642  | 38.1            |
| Aroclor-1254             | 3     | 9.671  | 0.001  | 12871  | 39.2     | 3                        | 10.120 | -0.001 | 16012 | 36.6            |
| Aroclor-1254             | 4     | 9.808  | -0.000 | 22113  | 34.4     | 4                        | 10.378 | 0.007  | 16300 | 37.3            |
| Aroclor-1254             | 5     | 10.176 | -0.001 | 17771  | 42.5     | 5                        | 10.572 | 0.004  | 4439  | 18.2            |
| Total CollAve (5 peaks): |       |        |        | 42.7   |          | Total Col2Ave (5 peaks): |        |        |       | 35.5 RPD = 18   |
| Corrected Ave (4 peaks): |       |        |        | 39.6   |          | Corrected Ave (4 peaks): |        |        |       | 32.6 RPD = 19   |
| Aroclor-1260             | 1     | 11.047 | 0.003  | 741    | 1.4      | 1                        | 11.663 | 0.010  | 1794  | 4.9             |
| Aroclor-1260             | 2     | 11.366 | 0.006  | 379    | 0.7      | 2                        | 11.923 | 0.005  | 1208  | 1.3             |
| Aroclor-1260             | 3     | 11.745 | 0.011  | 860    | 0.6      | 3                        | 12.507 | 0.071  | 977   | 4.2             |
| Aroclor-1260             | 4     | 12.154 | 0.014  | 1536   | 2.1      | 4                        | ---    |        |       | 0.0             |
| Aroclor-1260             | 5     | ---    |        |        | 0.0      | NS                       | ---    |        |       | ----            |
| Total CollAve (4 peaks): |       |        |        | 1.2    |          | Total Col2Ave (3 peaks): |        |        |       | 3.5 RPD = 99*   |
| Corrected Ave (3 peaks): |       |        |        | 0.9    |          | Corrected Ave: < 3 Peaks |        |        |       |                 |
| Aroclor-1262             | 1     | 10.836 | 0.004  | 10654  | 27.6     | 1                        | 11.120 | -0.080 | 8071  | 16.3            |
| Aroclor-1262             | 2     | 12.154 | -0.092 | 1536   | 2.5      | 2                        | 11.663 | 0.010  | 1794  | 4.3             |
| Aroclor-1262             | 3     | ---    |        |        | 0.0      | 3                        | 12.507 | 0.073  | 977   | 2.2             |
| Aroclor-1262             | 4     | 13.040 | 0.051  | 1739   | 2.9      | 4                        | ---    |        |       | 0.0             |
| Total CollAve (3 peaks): |       |        |        | 11.0   |          | Total Col2Ave (3 peaks): |        |        |       | 7.6 RPD = 37    |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |       |                 |
| Aroclor-1268             | 1     | 12.154 | -0.091 | 1536   | 1.0      | 1                        | 12.507 | 0.073  | 977   | 0.8             |
| Aroclor-1268             | 2     | ---    |        |        | 0.0      | 2                        | ---    |        |       | 0.0             |
| Aroclor-1268             | 3     | 12.623 | -0.076 | 5080   | 3.9      | 3                        | 12.894 | 0.001  | 98    | 0.1             |
| Aroclor-1268             | 4     | 13.501 | 0.012  | 2725   | 0.7      | 4                        | 13.707 | -0.001 | 1566  | 0.5             |
| Total CollAve (3 peaks): |       |        |        | 1.9    |          | Total Col2Ave (3 peaks): |        |        |       | 0.5 RPD = 120*  |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |       |                 |

Total PCB Area Col1 (5.909 - 13.792) = 915887 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 575897 Col2 Total PCB = 0.2 ppm\*

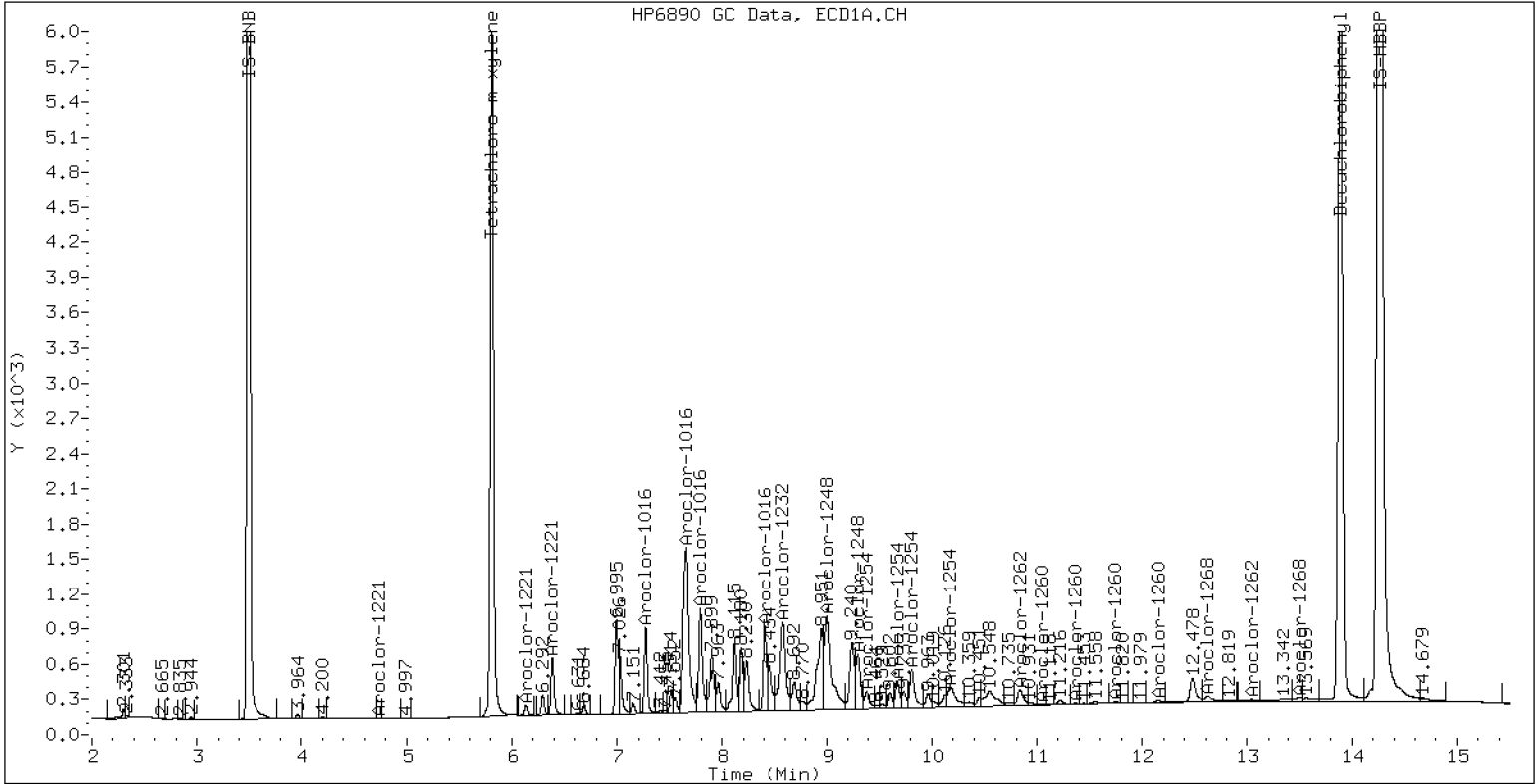
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1242 SCV

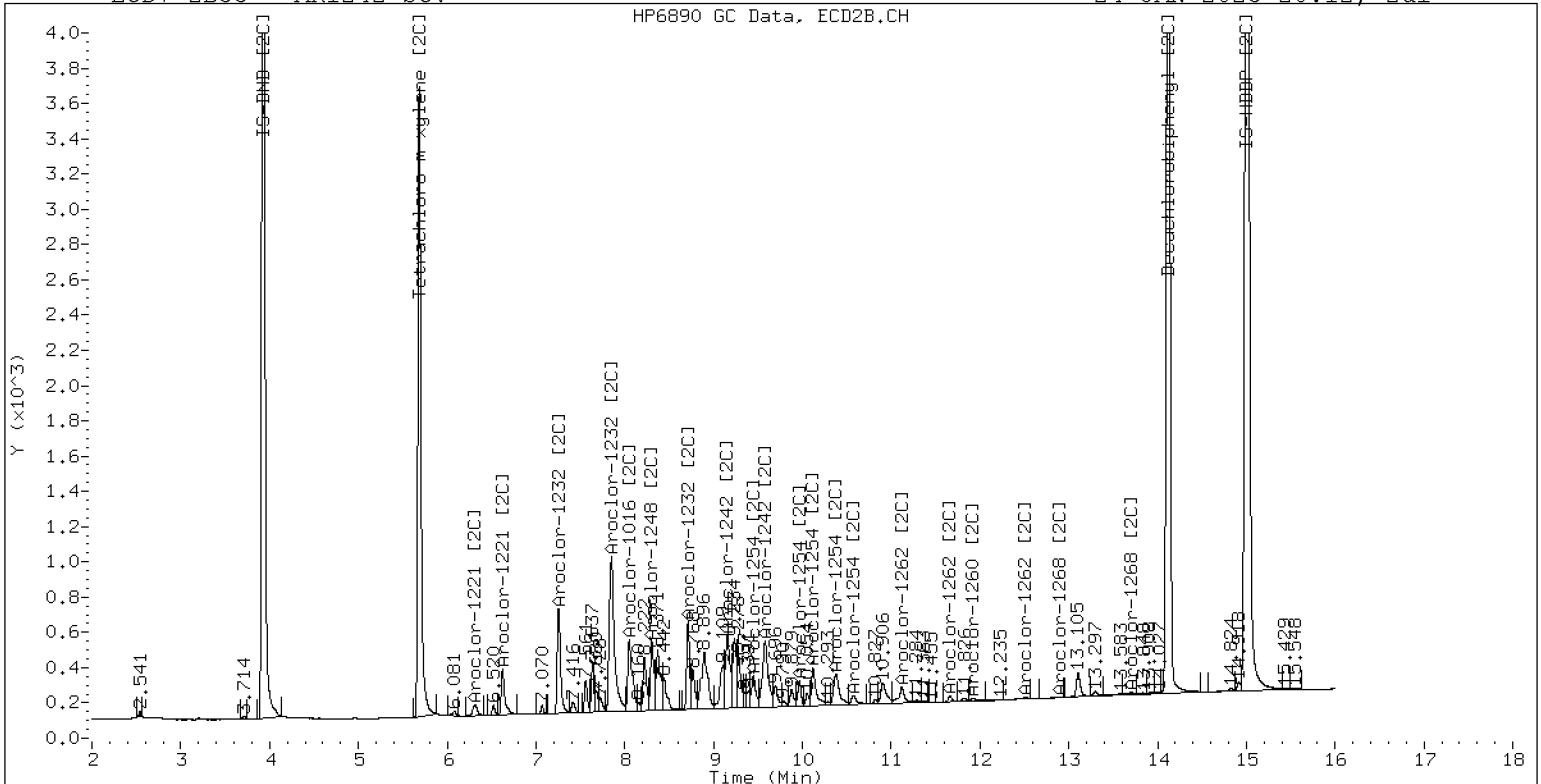
24-JAN-2023 20:12, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242 SCV

24-JAN-2023 20:12, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE  
CONTINUING CALIBRATION CHECK  
EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GA00061</u>         |
| Lab File ID:   | <u>01242326ECD7.D</u>            | Calibration Date: | <u>01/24/2023</u>      |
| Sequence:      | <u>SLA0281</u>                   | Injection Date:   | <u>01/24/23</u>        |
| Lab Sample ID: | <u>SLA0281-SCV3</u>              | Injection Time:   | <u>20:33</u>           |
| Sequence Name: | <u>AR1248SCV3</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1248               | A    | 250.00       | 237  | 0.0592639             | 0.0563710 |     | -5.1         | +/-20 |
| Aroclor 1248 [2C]          | A    | 250.00       | 231  | 0.0453673             | 0.0417577 |     | -7.6         | +/-20 |
| Decachlorobiphenyl         | A    | 40.000       | 38.3 | 0.8555994             | 0.8184425 |     | -4.3         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 36.8 | 1.1307870             | 1.0389130 |     | -8.1         | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 39.6 | 1.2696430             | 1.2561970 |     | -1.1         | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 36.5 | 1.0814980             | 0.9880182 |     | -8.6         | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242326ECD7.D  
Data file 2: /230124.b/230124.b/01242326ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1248 SCV  
Client ID:  
Injection Date: 24-JAN-2023 20:33  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col<br>Shift | Response | RT     | ZB35 Col<br>Shift | Response | ZB5<br>on col | ZB35<br>on col | RPD | Compound/Flag        |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.809  | 0.000            | 263982   | 5.686  | -0.001            | 169991   | 36.8          | 36.5           | 0.6 | Tetrachloro-m-xylene |
| 13.892 | 0.001            | 400655   | 14.121 | 0.001             | 316171   | 38.3          | 39.6           | 3.4 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 508189      | 1.0  |
| Hexabromobiphenyl  | 647433         | 979067      | 51.2 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 344105      | 2.1  |
| Hexabromobiphenyl  | 382032         | 503378      | 31.8 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |       |                |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|-------|----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area  | Amount         |
| Aroclor-1016             | 1     | 7.271  | 0.001  | 14777  | 78.3     | 1                        | 7.254  | -0.001 | 16100 | 86.3           |
| Aroclor-1016             | 2     | 7.655  | 0.004  | 70114  | 112.1    | 2                        | 7.853  | 0.002  | 47184 | 115.4          |
| Aroclor-1016             | 3     | 7.794  | 0.006  | 27212  | 94.5     | 3                        | 8.053  | 0.003  | 9427  | 56.5           |
| Aroclor-1016             | 4     | 8.406  | 0.003  | 59884  | 323.4    | 4                        | 8.306  | 0.001  | 36680 | 280.3          |
| Total CollAve (4 peaks): |       |        |        | 152.0  |          | Total Col2Ave (4 peaks): |        |        |       | 134.6 RPD = 12 |
| Corrected Ave (3 peaks): |       |        |        | 94.9   |          | Corrected Ave (3 peaks): |        |        |       | 86.0 RPD = 10  |
| Aroclor-1221             | 1     | ---    |        |        | 0.0      | 1                        | ---    |        |       | 0.0            |
| Aroclor-1221             | 2     | 6.133  | -0.000 | 591    | 7.7      | 2                        | 6.323  | 0.025  | 1820  | 32.9           |
| Aroclor-1221             | 3     | 6.386  | 0.001  | 2453   | 13.8     | 3                        | 6.627  | 0.004  | 1477  | 15.8           |
| CollAve: <3 Quant Peaks  |       |        |        |        |          | Col2Ave: <3 Quant Peaks  |        |        |       |                |
| Aroclor-1232             | 1     | ---    |        |        | 0.0      | 1                        | ---    |        |       | 0.0            |
| Aroclor-1232             | 2     | 6.133  | -0.000 | 591    | 11.2     | 2                        | 7.254  | -0.002 | 16100 | 188.0          |
| Aroclor-1232             | 3     | 7.655  | -0.004 | 70114  | 265.3    | 3                        | 7.853  | -0.001 | 47184 | 270.6          |
| Aroclor-1232             | 4     | 8.581  | -0.003 | 76286  | 674.3    | 4                        | 8.714  | 0.000  | 39330 | 811.7          |
| Total CollAve (3 peaks): |       |        |        | 316.9  |          | Total Col2Ave (3 peaks): |        |        |       | 423.4 RPD = 29 |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |       |                |
| Aroclor-1242             | 1     | 7.271  | 0.000  | 14777  | 95.0     | 1                        | 7.254  | -0.002 | 16100 | 107.0          |
| Aroclor-1242             | 2     | 7.655  | -0.001 | 70114  | 137.7    | 2                        | 7.853  | 0.000  | 47184 | 141.2          |
| Aroclor-1242             | 3     | 8.406  | -0.000 | 59884  | 395.8    | 3                        | 9.159  | -0.001 | 46988 | 448.9          |
| Aroclor-1242             | 4     | 8.581  | -0.000 | 76286  | 333.8    | 4                        | 9.584  | -0.003 | 56615 | 408.1          |
| Total CollAve (4 peaks): |       |        |        | 240.5  |          | Total Col2Ave (4 peaks): |        |        |       | 276.3 RPD = 14 |
| Corrected Ave (3 peaks): |       |        |        | 188.8  |          | Corrected Ave (3 peaks): |        |        |       | 218.7 RPD = 15 |
| Aroclor-1248             | 1     | 8.406  | 0.001  | 59884  | 235.6    | 1                        | 8.306  | 0.001  | 36680 | 235.8          |
| Aroclor-1248             | 2     | 8.581  | 0.001  | 76286  | 235.2    | 2                        | 8.714  | 0.002  | 39330 | 234.9          |
| Aroclor-1248             | 3     | 9.000  | 0.001  | 148805 | 239.9    | 3                        | 9.159  | 0.003  | 46988 | 229.7          |
| Aroclor-1248             | 4     | 9.295  | 0.001  | 73114  | 238.1    | 4                        | 9.584  | 0.002  | 56615 | 223.8          |
| Total CollAve (4 peaks): |       |        |        | 237.2  |          | Total Col2Ave (4 peaks): |        |        |       | 231.0 RPD = 3  |
| Corrected Ave (3 peaks): |       |        |        | 236.3  |          | Corrected Ave (3 peaks): |        |        |       | 229.5 RPD = 3  |
| Aroclor-1254             | 1     | 9.295  | -0.004 | 73114  | 141.2    | 1                        | 9.449  | 0.001  | 20314 | 81.4           |
| Aroclor-1254             | 2     | 9.378  | 0.000  | 36561  | 165.3    | 2                        | 9.970  | 0.000  | 18678 | 92.6           |
| Aroclor-1254             | 3     | 9.672  | 0.003  | 30736  | 92.6     | 3                        | 10.124 | 0.003  | 35321 | 80.2           |
| Aroclor-1254             | 4     | 9.813  | 0.004  | 53537  | 82.3     | 4                        | 10.387 | 0.015  | 35188 | 79.9           |
| Aroclor-1254             | 5     | 10.192 | 0.015  | 40119  | 94.9     | 5                        | 10.575 | 0.006  | 7386  | 30.1           |
| Total CollAve (5 peaks): |       |        |        | 115.3  |          | Total Col2Ave (5 peaks): |        |        |       | 72.9 RPD = 45* |
| Corrected Ave (4 peaks): |       |        |        | 102.7  |          | Corrected Ave (4 peaks): |        |        |       | 67.9 RPD = 41* |
| Aroclor-1260             | 1     | 11.054 | 0.010  | 1868   | 3.4      | 1                        | 11.664 | 0.011  | 2055  | 5.7            |
| Aroclor-1260             | 2     | 11.366 | 0.005  | 1375   | 2.4      | 2                        | 11.926 | 0.009  | 1303  | 1.4            |
| Aroclor-1260             | 3     | 11.745 | 0.010  | 2137   | 1.4      | 3                        | 12.439 | 0.003  | 395   | 1.7            |
| Aroclor-1260             | 4     | 12.147 | 0.008  | 1650   | 2.1      | 4                        | 12.507 | 0.005  | 890   | 1.5            |
| Aroclor-1260             | 5     | 12.255 | 0.011  | 558    | 1.7      | NS                       | ---    |        |       | ----           |
| Total CollAve (5 peaks): |       |        |        | 2.2    |          | Total Col2Ave (4 peaks): |        |        |       | 2.6 RPD = 15   |
| Corrected Ave (4 peaks): |       |        |        | 1.9    |          | Corrected Ave (3 peaks): |        |        |       | 1.5 RPD = 22   |
| Aroclor-1262             | 1     | 10.837 | 0.005  | 12736  | 32.2     | 1                        | 11.122 | -0.078 | 7136  | 14.5           |
| Aroclor-1262             | 2     | 12.255 | 0.010  | 558    | 0.9      | 2                        | 11.664 | 0.011  | 2055  | 4.9            |
| Aroclor-1262             | 3     | 12.327 | 0.006  | 596    | 0.9      | 3                        | 12.439 | 0.004  | 395   | 0.9            |
| Aroclor-1262             | 4     | 12.996 | 0.007  | 1113   | 1.8      | 4                        | 12.507 | 0.003  | 890   | 1.2            |
| Total CollAve (4 peaks): |       |        |        | 8.9    |          | Total Col2Ave (4 peaks): |        |        |       | 5.4 RPD = 50*  |
| Corrected Ave (3 peaks): |       |        |        | 1.2    |          | Corrected Ave (3 peaks): |        |        |       | 2.3 RPD = 65*  |
| Aroclor-1268             | 1     | 12.255 | 0.010  | 558    | 0.3      | 1                        | 12.439 | 0.005  | 395   | 0.3            |
| Aroclor-1268             | 2     | 12.327 | 0.009  | 596    | 0.4      | 2                        | 12.507 | 0.005  | 890   | 0.7            |
| Aroclor-1268             | 3     | 12.706 | 0.007  | 1161   | 0.9      | 3                        | 12.896 | 0.003  | 166   | 0.2            |
| Aroclor-1268             | 4     | 13.504 | 0.016  | 3330   | 0.8      | 4                        | 13.717 | 0.009  | 469   | 0.1            |
| Total CollAve (4 peaks): |       |        |        | 0.6    |          | Total Col2Ave (4 peaks): |        |        |       | 0.3 RPD = 57*  |
| Corrected Ave (3 peaks): |       |        |        | 0.5    |          | Corrected Ave (3 peaks): |        |        |       | 0.2 RPD = 83*  |

Total PCB Area Col1 (5.909 - 13.792) = 1230760 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 742749 Col2 Total PCB = 0.2 ppm\*

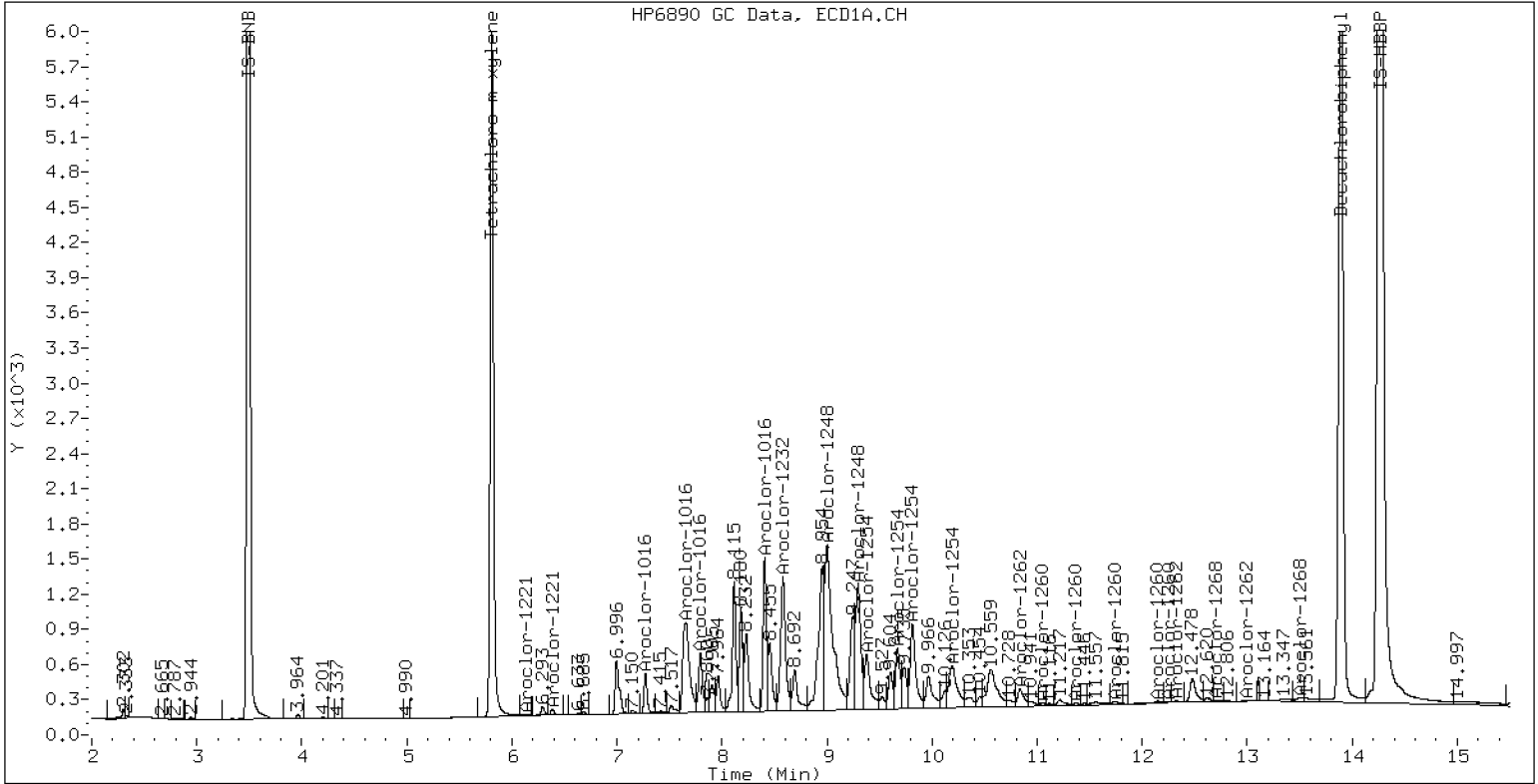
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1248 SCV

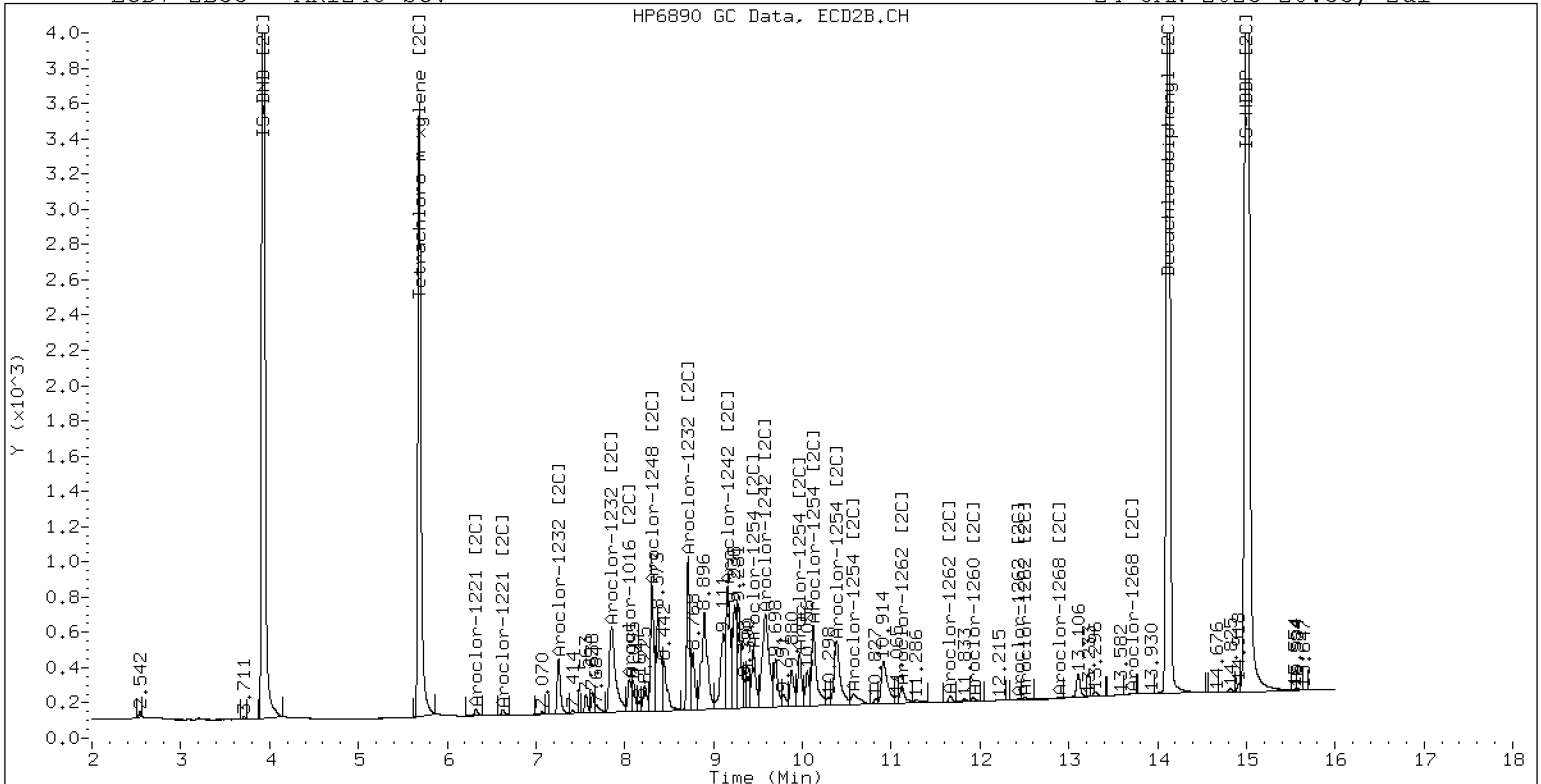
24-JAN-2023 20:33, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248 SCV

24-JAN-2023 20:33, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE  
CONTINUING CALIBRATION CHECK  
EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GA00061</u>         |
| Lab File ID:   | <u>01242327ECD7.D</u>            | Calibration Date: | <u>01/24/2023</u>      |
| Sequence:      | <u>SLA0281</u>                   | Injection Date:   | <u>01/24/23</u>        |
| Lab Sample ID: | <u>SLA0281-SCV4</u>              | Injection Time:   | <u>20:54</u>           |
| Sequence Name: | <u>AR1254SCV4</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1254               | A    | 250.00       | 221  | 0.0675033             | 0.0594048 |     | -11.7        | +/-20 |
| Aroclor 1254 [2C]          | A    | 250.00       | 227  | 0.0733219             | 0.0662023 |     | -9.4         | +/-20 |
| Decachlorobiphenyl         | A    | 40.000       | 37.1 | 0.8555994             | 0.7930764 |     | -7.3         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 36.7 | 1.1307870             | 1.0364220 |     | -8.3         | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 39.5 | 1.2696430             | 1.2551640 |     | -1.1         | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 36.6 | 1.0814980             | 0.9904044 |     | -8.4         | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242327ECD7.D  
Data file 2: /230124.b/230124.b/01242327ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1254 SCV  
Client ID:  
Injection Date: 24-JAN-2023 20:54  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.809   | -0.000 | 261398   | 5.686  | -0.001 | 169839   | 36.7   | 36.6 | 0.1           | Tetrachloro-m-xylene |
| 13.892  | 0.001  | 383983   | 14.121 | 0.001  | 323233   | 37.1   | 39.5 | 6.4           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 504424      | 0.2  |
| Hexabromobiphenyl  | 647433         | 968338      | 49.6 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 342969      | 1.8  |
| Hexabromobiphenyl  | 382032         | 515045      | 34.8 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        |   | ZB35 Col |        |        |       |            |  |
|--------------------------|-------|--------|--------|--------|---|----------|--------|--------|-------|------------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                                  | Peak#    | RT     | Shift  | Area  | Amount     |  |
| Aroclor-1016             | 1     | 7.273  | 0.003  | 320    | 1.7                                     | 1        | 7.258  | 0.003  | 332   | 1.8        |  |
| Aroclor-1016             | 2     | 7.658  | 0.008  | 991    | 1.6                                     | 2        | ---    |        |       | 0.0        |  |
| Aroclor-1016             | 3     | 7.795  | 0.007  | 662    | 2.3                                     | 3        | 8.097  | 0.047  | 515   | 3.1        |  |
| Aroclor-1016             | 4     | 8.408  | 0.005  | 21378  | 116.3                                   | 4        | 8.307  | 0.002  | 20446 | 156.8      |  |
| Total CollAve (4 peaks): |       |        |        | 30.5   | Total Col2Ave (3 peaks):                |          |        |        | 53.9  | RPD = 55*  |  |
| Corrected Ave (3 peaks): |       |        |        | 1.9    | Corrected Ave: < 3 Peaks                |          |        |        |       |            |  |
|                          |       |        |        |        |   |          |        |        |       |            |  |
| Aroclor-1221             | 1     | ---    |        |        | 0.0                                     | 1        | ---    |        |       | 0.0        |  |
| Aroclor-1221             | 2     | ---    |        |        | 0.0                                     | 2        | 6.325  | 0.026  | 1749  | 31.7       |  |
| Aroclor-1221             | 3     | ---    |        |        | 0.0                                     | 3        | 6.633  | 0.011  | 321   | 3.5        |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks                 |          |        |        |       |            |  |
|                          |       |        |        |        |   |          |        |        |       |            |  |
| Aroclor-1232             | 1     | ---    |        |        | 0.0                                     | 1        | ---    |        |       | 0.0        |  |
| Aroclor-1232             | 2     | ---    |        |        | 0.0                                     | 2        | 7.258  | 0.001  | 332   | 3.9        |  |
| Aroclor-1232             | 3     | 7.658  | -0.000 | 991    | 3.8                                     | 3        | ---    |        |       | 0.0        |  |
| Aroclor-1232             | 4     | 8.587  | 0.003  | 8887   | 79.1                                    | 4        | 8.715  | 0.001  | 14030 | 290.5      |  |
| CollAve: <3 Quant Peaks  |       |        |        |        | Col2Ave: <3 Quant Peaks                 |          |        |        |       |            |  |
|                          |       |        |        |        |   |          |        |        |       |            |  |
| Aroclor-1242             | 1     | 7.273  | 0.002  | 320    | 2.1                                     | 1        | 7.258  | 0.002  | 332   | 2.2        |  |
| Aroclor-1242             | 2     | 7.658  | 0.003  | 991    | 2.0                                     | 2        | ---    |        |       | 0.0        |  |
| Aroclor-1242             | 3     | 8.408  | 0.002  | 21378  | 142.3                                   | 3        | 9.164  | 0.004  | 26593 | 254.9      |  |
| Aroclor-1242             | 4     | 8.587  | 0.006  | 8887   | 39.2                                    | 4        | 9.543  | -0.043 | 34385 | 248.7      |  |
| Total CollAve (4 peaks): |       |        |        | 46.4   | Total Col2Ave (3 peaks):                |          |        |        | 168.6 | RPD = 114* |  |
| Corrected Ave (3 peaks): |       |        |        | 14.4   | Corrected Ave: < 3 Peaks                |          |        |        |       |            |  |
|                          |       |        |        |        |   |          |        |        |       |            |  |
| Aroclor-1248             | 1     | 8.408  | 0.003  | 21378  | 84.7                                    | 1        | 8.307  | 0.001  | 20446 | 131.9      |  |
| Aroclor-1248             | 2     | 8.587  | 0.007  | 8887   | 27.6                                    | 2        | 8.715  | 0.003  | 14030 | 84.1       |  |
| Aroclor-1248             | 3     | 8.995  | -0.004 | 110289 | 179.1                                   | 3        | 9.164  | 0.007  | 26593 | 130.4      |  |
| Aroclor-1248             | 4     | 9.300  | 0.007  | 113143 | 371.2                                   | 4        | 9.543  | -0.038 | 34385 | 136.4      |  |
| Total CollAve (4 peaks): |       |        |        | 165.7  | Total Col2Ave (4 peaks):                |          |        |        | 120.7 | RPD = 31   |  |
| Corrected Ave (3 peaks): |       |        |        | 97.2   | Corrected Ave (3 peaks): 115.5 RPD = 17 |          |        |        |       |            |  |
|                          |       |        |        |        |   |          |        |        |       |            |  |
| Aroclor-1254             | 1     | 9.300  | 0.002  | 113143 | 220.1                                   | 1        | 9.449  | 0.001  | 56453 | 226.9      |  |
| Aroclor-1254             | 2     | 9.379  | 0.001  | 49468  | 225.4                                   | 2        | 9.970  | 0.001  | 45325 | 225.4      |  |
| Aroclor-1254             | 3     | 9.671  | 0.002  | 72811  | 221.0                                   | 3        | 10.122 | 0.002  | 97044 | 221.2      |  |
| Aroclor-1254             | 4     | 9.811  | 0.002  | 140530 | 217.7                                   | 4        | 10.374 | 0.002  | 98778 | 225.2      |  |
| Aroclor-1254             | 5     | 10.182 | 0.005  | 92254  | 219.8                                   | 5        | 10.570 | 0.001  | 57171 | 234.0      |  |
| Total CollAve (5 peaks): |       |        |        | 220.8  | Total Col2Ave (5 peaks):                |          |        |        | 226.5 | RPD = 3    |  |
| Corrected Ave (4 peaks): |       |        |        | 219.7  | Corrected Ave (4 peaks): 224.7 RPD = 2  |          |        |        |       |            |  |
|                          |       |        |        |        |   |          |        |        |       |            |  |
| Aroclor-1260             | 1     | 11.045 | 0.002  | 8960   | 16.5                                    | 1        | 11.661 | 0.008  | 26985 | 72.6       |  |
| Aroclor-1260             | 2     | 11.364 | 0.004  | 9237   | 16.5                                    | 2        | 11.923 | 0.006  | 19882 | 21.2       |  |
| Aroclor-1260             | 3     | 11.741 | 0.007  | 21268  | 14.5                                    | 3        | 12.505 | 0.069  | 13190 | 56.3       |  |
| Aroclor-1260             | 4     | 12.146 | 0.007  | 19041  | 25.1                                    | 4        | ---    |        |       | 0.0        |  |
| Aroclor-1260             | 5     | 12.321 | 0.077  | 1835   | 5.5                                     | NS       | ---    |        |       | ---        |  |
| Total CollAve (5 peaks): |       |        |        | 15.6   | Total Col2Ave (3 peaks):                |          |        |        | 50.0  | RPD = 105* |  |
| Corrected Ave (4 peaks): |       |        |        | 13.3   | Corrected Ave: < 3 Peaks                |          |        |        |       |            |  |
|                          |       |        |        |        |   |          |        |        |       |            |  |
| Aroclor-1262             | 1     | 10.832 | 0.000  | 157590 | 402.4                                   | 1        | 11.119 | -0.081 | 92414 | 183.3      |  |
| Aroclor-1262             | 2     | 12.321 | 0.075  | 1835   | 3.0                                     | 2        | 11.661 | 0.008  | 26985 | 63.0       |  |
| Aroclor-1262             | 3     | ---    |        |        | 0.0                                     | 3        | 12.505 | 0.071  | 13190 | 28.9       |  |
| Aroclor-1262             | 4     | 12.995 | 0.006  | 843    | 1.4                                     | 4        | ---    |        |       | 0.0        |  |
| Total CollAve (3 peaks): |       |        |        | 135.6  | Total Col2Ave (3 peaks):                |          |        |        | 91.7  | RPD = 39   |  |
| Corrected Ave: < 3 Peaks |       |        |        |        | Corrected Ave: < 3 Peaks                |          |        |        |       |            |  |
|                          |       |        |        |        |   |          |        |        |       |            |  |
| Aroclor-1268             | 1     | 12.321 | 0.076  | 1835   | 1.1                                     | 1        | 12.505 | 0.072  | 13190 | 11.0       |  |
| Aroclor-1268             | 2     | ---    |        |        | 0.0                                     | 2        | ---    |        |       | 0.0        |  |
| Aroclor-1268             | 3     | 12.720 | 0.021  | 1314   | 1.0                                     | 3        | 12.891 | -0.002 | 169   | 0.2        |  |
| Aroclor-1268             | 4     | 13.504 | 0.016  | 1169   | 0.3                                     | 4        | 13.706 | -0.002 | 1132  | 0.3        |  |
| Total CollAve (3 peaks): |       |        |        | 0.8    | Total Col2Ave (3 peaks):                |          |        |        | 3.8   | RPD = 130* |  |
| Corrected Ave: < 3 Peaks |       |        |        |        | Corrected Ave: < 3 Peaks                |          |        |        |       |            |  |

Total PCB Area Col1 (5.909 - 13.792) = 1507519 Col1 Total PCB = 0.3 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 951047 Col2 Total PCB = 0.3 ppm\*

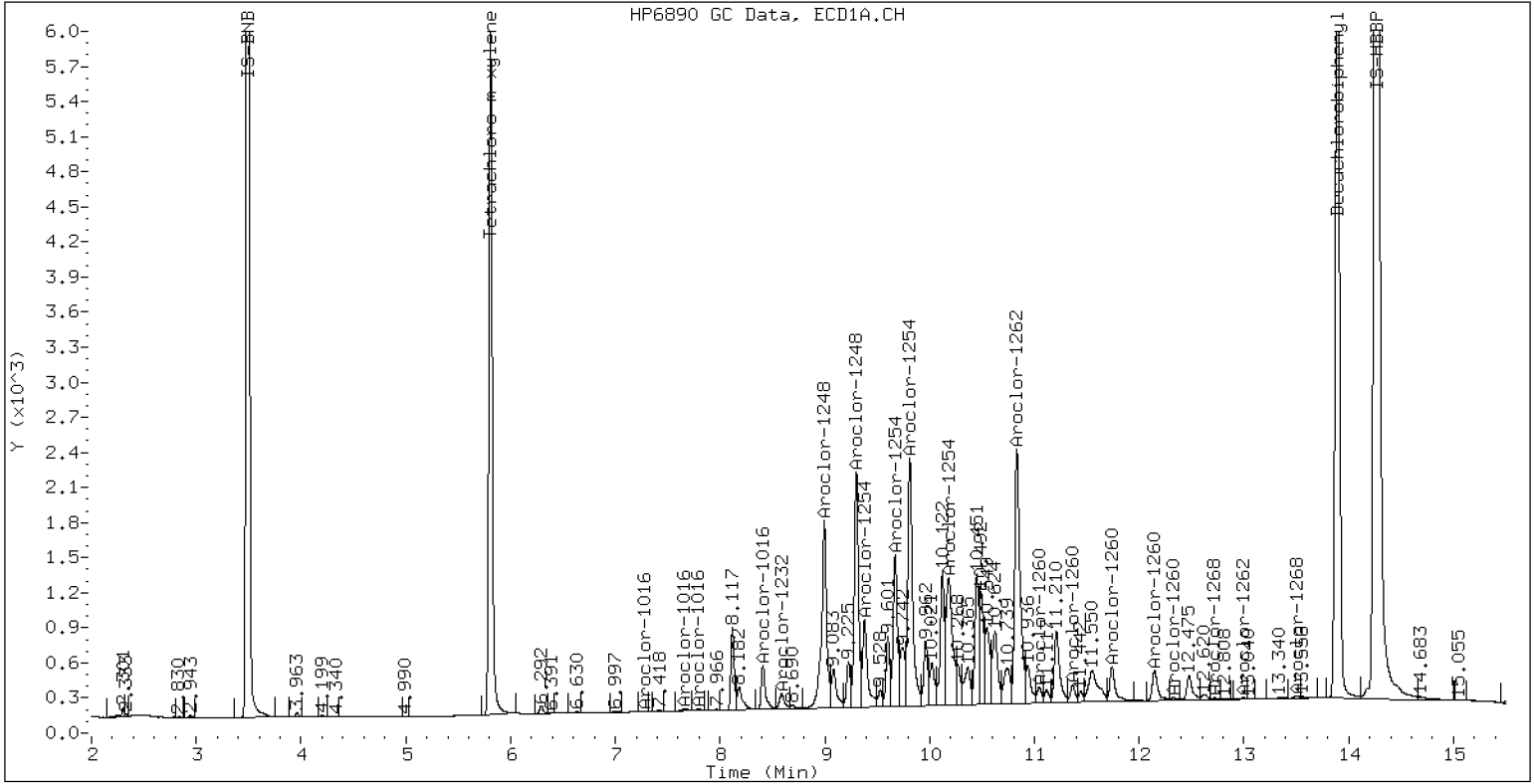
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

## PCB Dual Column Chromatograms

ECD7-ZB5 AR1254 SCV

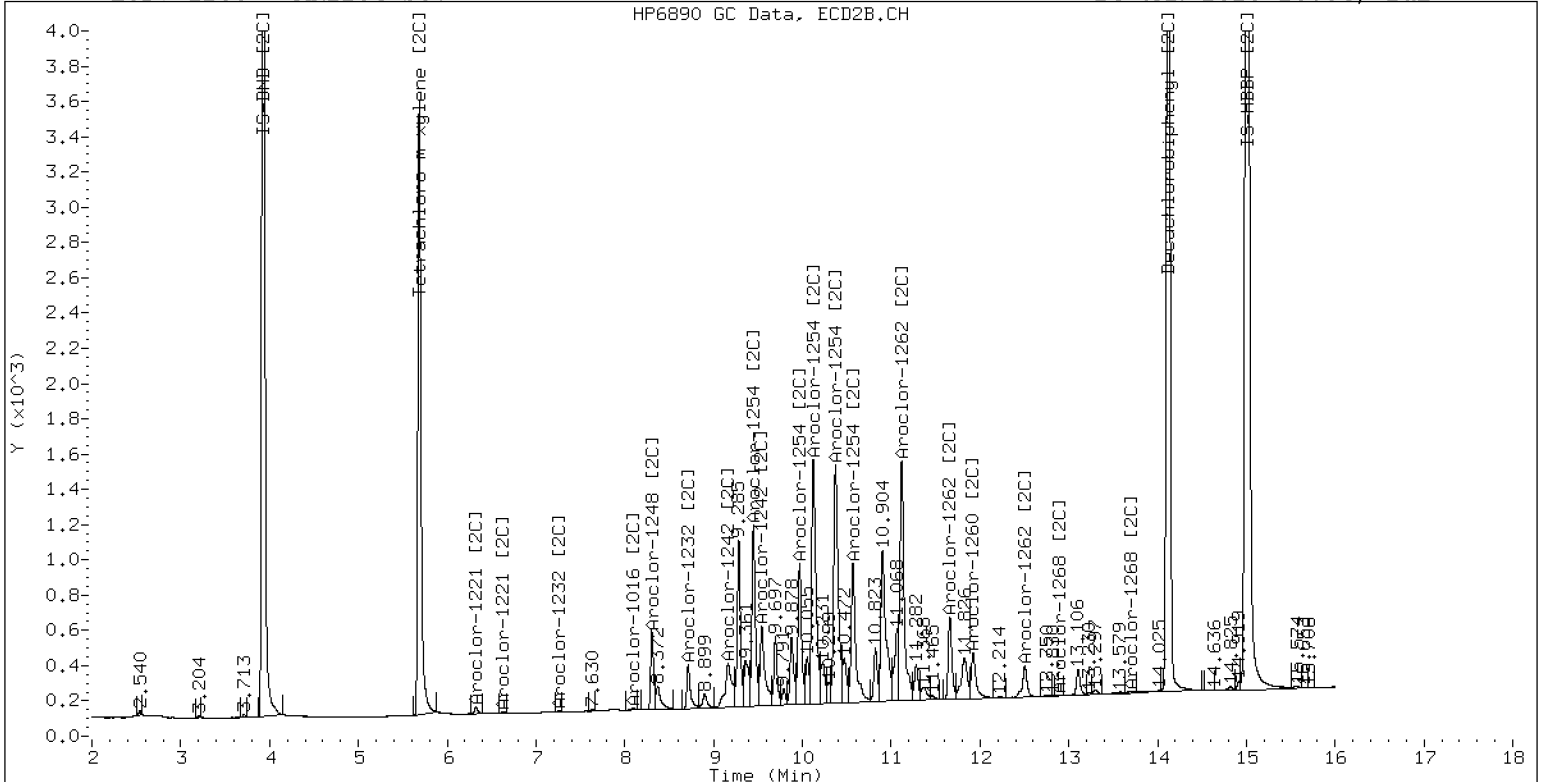
24-JAN-2023 20:54, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254 SCV

24-JAN-2023 20:54, 2u1



ZB-35 Manual Integration: NO





**SECOND-SOURCE  
CONTINUING CALIBRATION CHECK  
EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GA00061</u>         |
| Lab File ID:   | <u>01242328ECD7.D</u>            | Calibration Date: | <u>01/24/2023</u>      |
| Sequence:      | <u>SLA0281</u>                   | Injection Date:   | <u>01/24/23</u>        |
| Lab Sample ID: | <u>SLA0281-SCV5</u>              | Injection Time:   | <u>21:15</u>           |
| Sequence Name: | <u>AR2162SCV5</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1221               | A    | 250.00       | 228  | 0.0153579             | 0.0138791 |     | -8.8         | +/-20 |
| Aroclor 1221 [2C]          | A    | 250.00       | 239  | 0.0134687             | 0.0127460 |     | -4.5         | +/-20 |
| Decachlorobiphenyl         | A    | 40.000       | 37.5 | 0.8555994             | 0.8010750 |     | -6.4         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 37.3 | 1.1307870             | 1.0541060 |     | -6.8         | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 39.5 | 1.2696430             | 1.2528610 |     | -1.3         | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 37.2 | 1.0814980             | 1.0047210 |     | -7.1         | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242328ECD7.D  
Data file 2: /230124.b/230124.b/01242328ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR2162 SCV  
Client ID:  
Injection Date: 24-JAN-2023 21:15  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.809   | -0.000 | 265357   | 5.685  | -0.001 | 170984   | 37.3   | 37.2 | 0.3           | Tetrachloro-m-xylene |
| 13.891  | -0.001 | 397332   | 14.119 | -0.001 | 326981   | 37.5   | 39.5 | 5.3           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 503473      | 0.0  |
| Hexabromobiphenyl  | 647433         | 991997      | 53.2 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 340361      | 1.0  |
| Hexabromobiphenyl  | 382032         | 521975      | 36.6 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        |                          | ZB35 Col |        |        |        |            |  |
|--------------------------|-------|--------|--------|--------|--------------------------|----------|--------|--------|--------|------------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                   | Peak#    | RT     | Shift  | Area   | Amount     |  |
| Aroclor-1016             | 1     | 7.272  | 0.002  | 5326   | 28.5                     | 1        | 7.257  | 0.002  | 6708   | 36.3       |  |
| Aroclor-1016             | 2     | 7.664  | 0.013  | 11965  | 19.3                     | 2        | 7.856  | 0.005  | 7233   | 17.9       |  |
| Aroclor-1016             | 3     | 7.797  | 0.009  | 6015   | 21.1                     | 3        | 8.058  | 0.008  | 2997   | 18.2       |  |
| Aroclor-1016             | 4     | 8.410  | 0.006  | 3771   | 20.6                     | 4        | 8.308  | 0.002  | 2065   | 16.0       |  |
| Total CollAve (4 peaks): |       |        |        | 22.4   | Total Col2Ave (4 peaks): |          |        |        | 22.1   | RPD = 1    |  |
| Corrected Ave (3 peaks): |       |        |        | 20.3   | Corrected Ave (3 peaks): |          |        |        | 17.3   | RPD = 16   |  |
| Aroclor-1221             | 1     | 4.732  | -0.000 | 9097   | 244.5                    | 1        | 4.959  | -0.000 | 6157   | 246.8      |  |
| Aroclor-1221             | 2     | 6.133  | -0.000 | 16114  | 211.8                    | 2        | 6.297  | -0.001 | 12807  | 234.2      |  |
| Aroclor-1221             | 3     | 6.384  | 0.000  | 40299  | 228.1                    | 3        | 6.622  | -0.000 | 21707  | 235.2      |  |
| Total CollAve (3 peaks): |       |        |        | 228.1  | Total Col2Ave (3 peaks): |          |        |        | 238.7  | RPD = 5    |  |
| Corrected Ave: < 3 Peaks |       |        |        |        | Corrected Ave: < 3 Peaks |          |        |        |        |            |  |
| Aroclor-1232             | 1     | 4.732  | -0.001 | 9097   | 391.6                    | 1        | 4.959  | -0.001 | 6157   | 406.9      |  |
| Aroclor-1232             | 2     | 6.133  | 0.000  | 16114  | 307.8                    | 2        | 7.257  | 0.000  | 6708   | 79.2       |  |
| Aroclor-1232             | 3     | 7.664  | 0.005  | 11965  | 45.7                     | 3        | 7.856  | 0.001  | 7233   | 41.9       |  |
| Aroclor-1232             | 4     | 8.589  | 0.004  | 2837   | 25.3                     | 4        | 8.716  | 0.002  | 1869   | 39.0       |  |
| Total CollAve (4 peaks): |       |        |        | 192.6  | Total Col2Ave (4 peaks): |          |        |        | 141.7  | RPD = 30   |  |
| Corrected Ave (3 peaks): |       |        |        | 126.3  | Corrected Ave (3 peaks): |          |        |        | 53.4   | RPD = 81*  |  |
| Aroclor-1242             | 1     | 7.272  | 0.001  | 5326   | 34.5                     | 1        | 7.257  | 0.001  | 6708   | 45.1       |  |
| Aroclor-1242             | 2     | 7.664  | 0.008  | 11965  | 23.7                     | 2        | 7.856  | 0.003  | 7233   | 21.9       |  |
| Aroclor-1242             | 3     | 8.410  | 0.004  | 3771   | 25.2                     | 3        | 9.169  | 0.009  | 1956   | 18.9       |  |
| Aroclor-1242             | 4     | 8.589  | 0.007  | 2837   | 12.5                     | 4        | 9.544  | -0.043 | 5978   | 43.6       |  |
| Total CollAve (4 peaks): |       |        |        | 24.0   | Total Col2Ave (4 peaks): |          |        |        | 32.3   | RPD = 30   |  |
| Corrected Ave (3 peaks): |       |        |        | 20.5   | Corrected Ave (3 peaks): |          |        |        | 28.1   | RPD = 31   |  |
| Aroclor-1248             | 1     | 8.410  | 0.005  | 3771   | 15.0                     | 1        | 8.308  | 0.002  | 2065   | 13.4       |  |
| Aroclor-1248             | 2     | 8.589  | 0.008  | 2837   | 8.8                      | 2        | 8.716  | 0.004  | 1869   | 11.3       |  |
| Aroclor-1248             | 3     | 8.997  | -0.002 | 36022  | 58.6                     | 3        | 9.169  | 0.012  | 1956   | 9.7        |  |
| Aroclor-1248             | 4     | 9.305  | 0.011  | 30853  | 101.4                    | 4        | 9.544  | -0.038 | 5978   | 23.9       |  |
| Total CollAve (4 peaks): |       |        |        | 46.0   | Total Col2Ave (4 peaks): |          |        |        | 14.6   | RPD = 104* |  |
| Corrected Ave (3 peaks): |       |        |        | 27.5   | Corrected Ave (3 peaks): |          |        |        | 11.5   | RPD = 82*  |  |
| Aroclor-1254             | 1     | 9.305  | 0.006  | 30853  | 60.1                     | 1        | 9.451  | 0.003  | 17617  | 71.3       |  |
| Aroclor-1254             | 2     | 9.376  | -0.002 | 5370   | 24.5                     | 2        | 9.970  | 0.001  | 2849   | 14.3       |  |
| Aroclor-1254             | 3     | 9.673  | 0.003  | 5543   | 16.9                     | 3        | 10.146 | 0.026  | 88151  | 202.5      |  |
| Aroclor-1254             | 4     | 9.810  | 0.002  | 14544  | 22.6                     | 4        | 10.370 | -0.002 | 107074 | 245.9      |  |
| Aroclor-1254             | 5     | 10.121 | -0.056 | 180016 | 429.7                    | 5        | 10.567 | -0.002 | 141725 | 584.5      |  |
| Total CollAve (5 peaks): |       |        |        | 110.8  | Total Col2Ave (5 peaks): |          |        |        | 223.7  | RPD = 68*  |  |
| Corrected Ave (4 peaks): |       |        |        | 31.0   | Corrected Ave (4 peaks): |          |        |        | 133.5  | RPD = 125* |  |
| Aroclor-1260             | 1     | 11.044 | 0.001  | 310806 | 558.4                    | 1        | 11.652 | -0.001 | 187682 | 498.4      |  |
| Aroclor-1260             | 2     | 11.361 | 0.000  | 263161 | 460.0                    | 2        | 11.917 | -0.000 | 450612 | 473.0      |  |
| Aroclor-1260             | 3     | 11.735 | 0.000  | 629605 | 418.0                    | 3        | 12.433 | -0.003 | 206042 | 867.7      |  |
| Aroclor-1260             | 4     | 12.141 | 0.001  | 210012 | 269.9                    | 4        | 12.502 | -0.000 | 326457 | 529.5      |  |
| Aroclor-1260             | 5     | 12.244 | -0.000 | 268425 | 791.3                    | NS       | ---    |        |        | ----       |  |
| Total CollAve (5 peaks): |       |        |        | 499.5  | Total Col2Ave (4 peaks): |          |        |        | 592.1  | RPD = 17   |  |
| Corrected Ave (4 peaks): |       |        |        | 426.6  | Corrected Ave (3 peaks): |          |        |        | 500.3  | RPD = 16   |  |
| Aroclor-1262             | 1     | 10.828 | -0.005 | 171094 | 426.5                    | 1        | 11.200 | 0.000  | 219731 | 430.1      |  |
| Aroclor-1262             | 2     | 12.244 | -0.002 | 268425 | 423.9                    | 2        | 11.652 | -0.001 | 187682 | 432.0      |  |
| Aroclor-1262             | 3     | 12.319 | -0.002 | 291581 | 424.2                    | 3        | 12.433 | -0.001 | 206042 | 445.4      |  |
| Aroclor-1262             | 4     | 12.988 | -0.001 | 257735 | 411.5                    | 4        | 12.502 | -0.002 | 326457 | 440.6      |  |
| Total CollAve (4 peaks): |       |        |        | 421.5  | Total Col2Ave (4 peaks): |          |        |        | 437.0  | RPD = 4    |  |
| Corrected Ave (3 peaks): |       |        |        | 419.8  | Corrected Ave (3 peaks): |          |        |        | 434.3  | RPD = 3    |  |
| Aroclor-1268             | 1     | 12.244 | -0.001 | 268425 | 163.8                    | 1        | 12.433 | -0.000 | 206042 | 169.0      |  |
| Aroclor-1268             | 2     | 12.319 | 0.001  | 291581 | 178.4                    | 2        | 12.502 | 0.000  | 326457 | 251.7      |  |
| Aroclor-1268             | 3     | 12.725 | 0.026  | 108693 | 80.3                     | 3        | 12.892 | -0.001 | 10062  | 9.3        |  |
| Aroclor-1268             | 4     | 13.486 | -0.003 | 95646  | 23.8                     | 4        | 13.710 | 0.001  | 59437  | 17.8       |  |
| Total CollAve (4 peaks): |       |        |        | 111.6  | Total Col2Ave (4 peaks): |          |        |        | 112.0  | RPD = 0    |  |

Corrected Ave (3 peaks): 89.3      Corrected Ave (3 peaks): 65.4      RPD = 31

Total PCB Area Col1 (5.909 - 13.792) = 4409992      Col1 Total PCB = 0.8 ppm\*  
Total PCB Area Col2 (5.787 - 14.020) = 2874073      Col2 Total PCB = 0.8 ppm\*

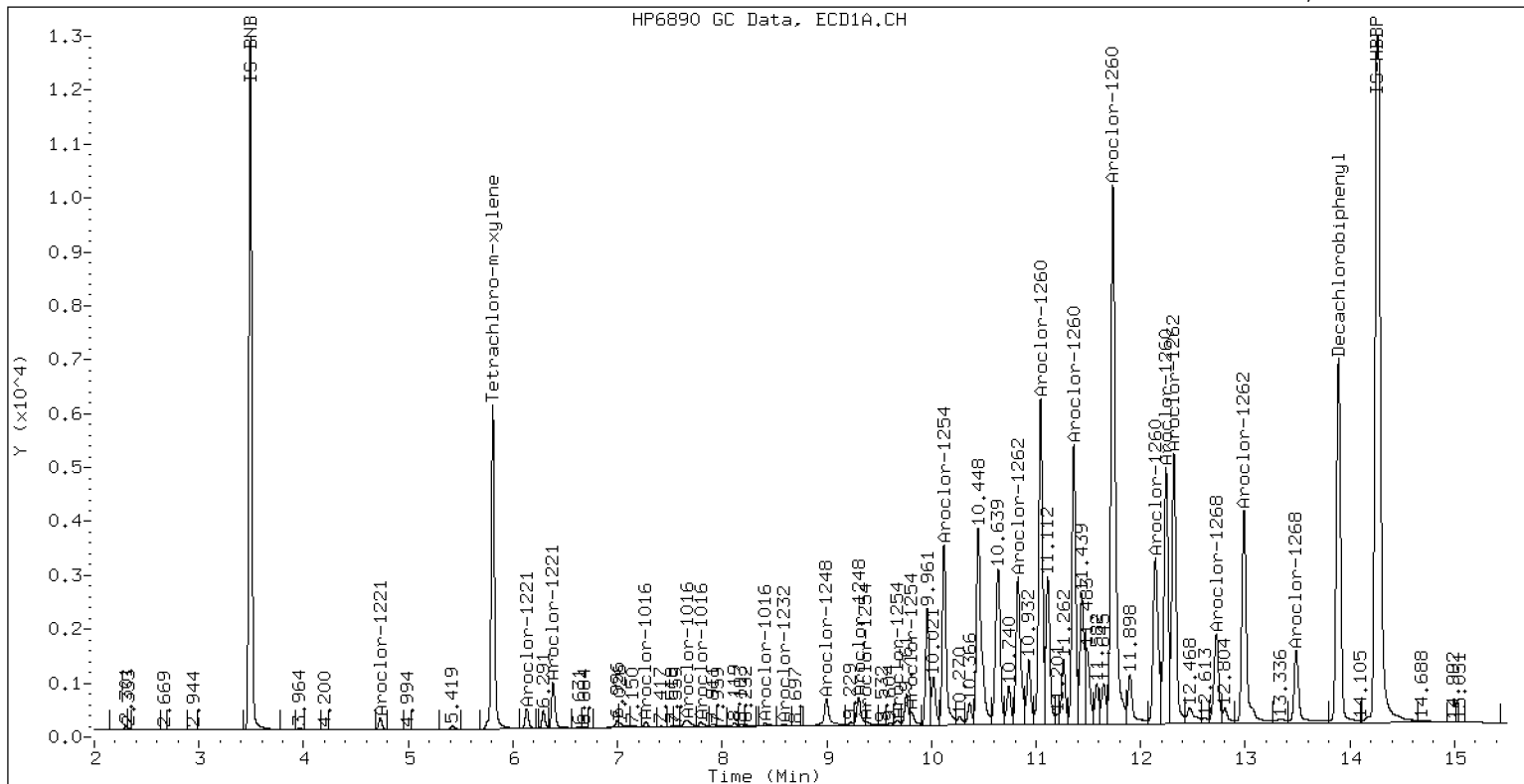
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

### PCB Dual Column Chromatograms

ECD7-ZB5 AR2162 SCV

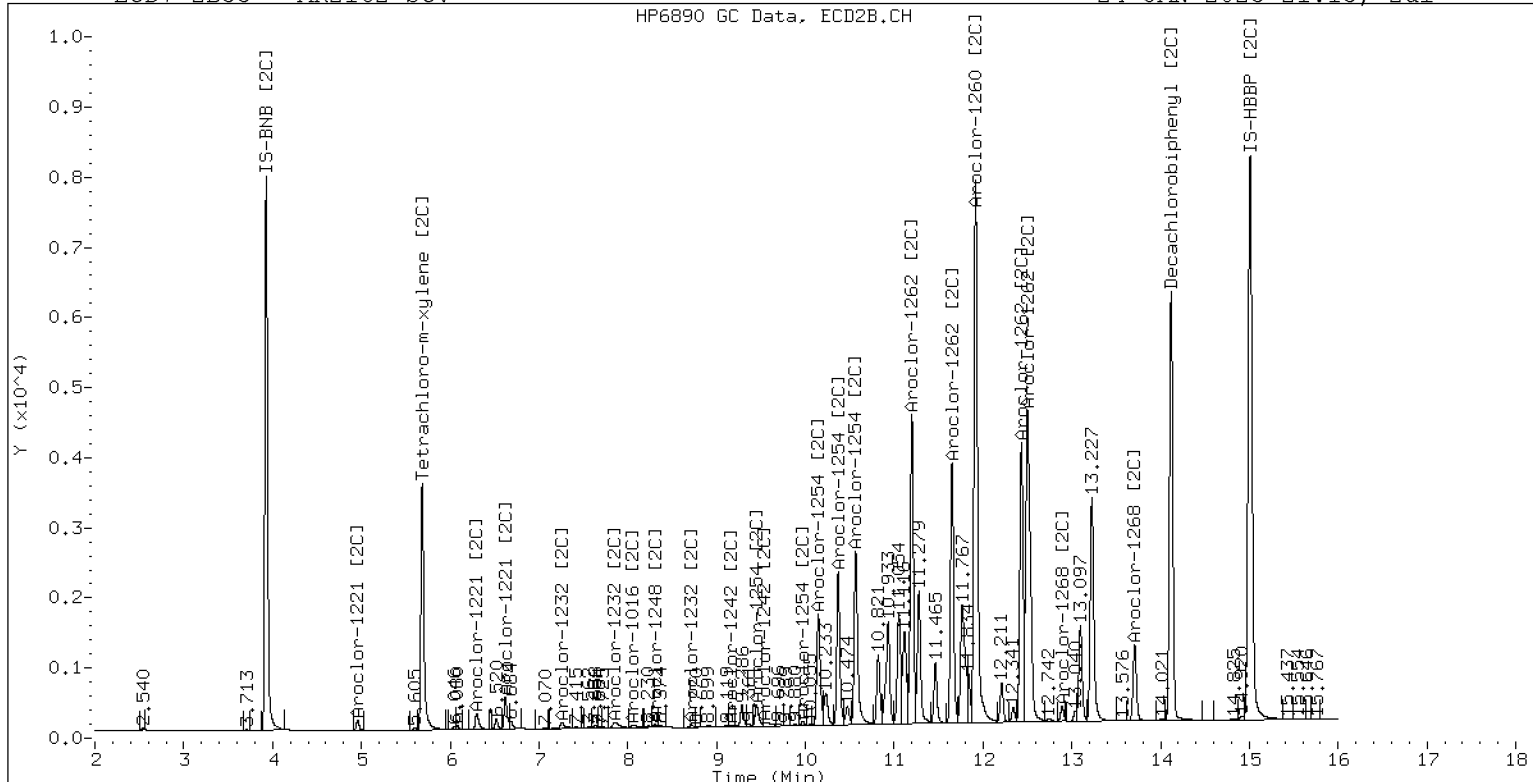
24-JAN-2023 21:15, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162 SCV

24-JAN-2023 21:15, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE  
CONTINUING CALIBRATION CHECK  
EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GA00061</u>         |
| Lab File ID:   | <u>01242329ECD7.D</u>            | Calibration Date: | <u>01/24/2023</u>      |
| Sequence:      | <u>SLA0281</u>                   | Injection Date:   | <u>01/24/23</u>        |
| Lab Sample ID: | <u>SLA0281-SCV6</u>              | Injection Time:   | <u>21:36</u>           |
| Sequence Name: | <u>AR3268SCV6</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1232               | A    | 250.00       | 216  | 0.0178560             | 0.0160358 |     | -13.7        | +/-20 |
| Aroclor 1232 [2C]          | A    | 250.00       | 239  | 0.0188178             | 0.0180429 |     | -4.5         | +/-20 |
| Decachlorobiphenyl         | A    | 40.000       | 54.6 | 0.8555994             | 1.1682210 |     | 36.5         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 36.4 | 1.1307870             | 1.0284340 |     | -9.1         | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 57.9 | 1.2696430             | 1.8387740 |     | 44.8         | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 36.3 | 1.0814980             | 0.9815176 |     | -9.2         | +/-20 |

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242329ECD7.D  
Data file 2: /230124.b/230124.b/01242329ECD7.D  
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR3268 SCV  
Client ID:  
Injection Date: 24-JAN-2023 21:36  
Report Date: 01/25/2023 10:53  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.810  | 0.001         | 250455   | 5.687  | 0.000          | 162795   | 36.4       | 36.3        | 0.2 | Tetrachloro-m-xylene |
| 13.892 | 0.000         | 551946   | 14.120 | 0.000          | 461901   | 54.6       | 57.9        | 5.9 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 487061      | -3.2 |
| Hexabromobiphenyl  | 647433         | 944934      | 46.0 |
| Column 2           |                |             |      |
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 331721      | -1.5 |
| Hexabromobiphenyl  | 382032         | 502401      | 31.5 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |        |                  |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|------------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area   | Amount           |
| Aroclor-1016             | 1     | 7.272  | 0.002  | 19363  | 107.0    | 1                        | 7.256  | 0.001  | 19791  | 110.0            |
| Aroclor-1016             | 2     | 7.659  | 0.009  | 58630  | 97.8     | 2                        | 7.856  | 0.005  | 40139  | 101.8            |
| Aroclor-1016             | 3     | 7.794  | 0.006  | 28286  | 102.5    | 3                        | 8.055  | 0.005  | 17412  | 108.2            |
| Aroclor-1016             | 4     | 8.408  | 0.004  | 17373  | 97.9     | 4                        | 8.308  | 0.003  | 11962  | 94.8             |
| Total CollAve (4 peaks): |       |        |        | 101.3  |          | Total Col2Ave (4 peaks): |        |        |        | 103.7 RPD = 2    |
| Corrected Ave (3 peaks): |       |        |        | 99.4   |          | Corrected Ave (3 peaks): |        |        |        | 101.6 RPD = 2    |
|                          |       |        |        |        |          |                          |        |        |        |                  |
| Aroclor-1221             | 1     | 4.735  | 0.002  | 5022   | 139.5    | 1                        | 4.961  | 0.002  | 3409   | 140.2            |
| Aroclor-1221             | 2     | 6.134  | 0.001  | 8987   | 122.1    | 2                        | 6.299  | 0.001  | 7677   | 144.1            |
| Aroclor-1221             | 3     | 6.385  | 0.001  | 29368  | 171.8    | 3                        | 6.624  | 0.001  | 16198  | 180.1            |
| Total CollAve (3 peaks): |       |        |        | 144.5  |          | Total Col2Ave (3 peaks): |        |        |        | 154.8 RPD = 7    |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |        |                  |
|                          |       |        |        |        |          |                          |        |        |        |                  |
| Aroclor-1232             | 1     | 4.735  | 0.002  | 5022   | 223.5    | 1                        | 4.961  | 0.002  | 3409   | 231.1            |
| Aroclor-1232             | 2     | 6.134  | 0.001  | 8987   | 177.4    | 2                        | 7.256  | -0.001 | 19791  | 239.8            |
| Aroclor-1232             | 3     | 7.659  | 0.001  | 58630  | 231.5    | 3                        | 7.856  | 0.001  | 40139  | 238.8            |
| Aroclor-1232             | 4     | 8.585  | 0.000  | 24991  | 230.5    | 4                        | 8.715  | 0.001  | 11476  | 245.7            |
| Total CollAve (4 peaks): |       |        |        | 215.7  |          | Total Col2Ave (4 peaks): |        |        |        | 238.8 RPD = 10   |
| Corrected Ave (3 peaks): |       |        |        | 210.5  |          | Corrected Ave (3 peaks): |        |        |        | 236.6 RPD = 12   |
|                          |       |        |        |        |          |                          |        |        |        |                  |
| Aroclor-1242             | 1     | 7.272  | 0.001  | 19363  | 129.8    | 1                        | 7.256  | 0.000  | 19791  | 136.4            |
| Aroclor-1242             | 2     | 7.659  | 0.004  | 58630  | 120.1    | 2                        | 7.856  | 0.002  | 40139  | 124.6            |
| Aroclor-1242             | 3     | 8.408  | 0.001  | 17373  | 119.8    | 3                        | 9.166  | 0.006  | 11813  | 117.1            |
| Aroclor-1242             | 4     | 8.585  | 0.003  | 24991  | 114.1    | 4                        | 9.595  | 0.009  | 16549  | 123.7            |
| Total CollAve (4 peaks): |       |        |        | 121.0  |          | Total Col2Ave (4 peaks): |        |        |        | 125.4 RPD = 4    |
| Corrected Ave (3 peaks): |       |        |        | 118.0  |          | Corrected Ave (3 peaks): |        |        |        | 121.8 RPD = 3    |
|                          |       |        |        |        |          |                          |        |        |        |                  |
| Aroclor-1248             | 1     | 8.408  | 0.002  | 17373  | 71.3     | 1                        | 8.308  | 0.003  | 11962  | 79.8             |
| Aroclor-1248             | 2     | 8.585  | 0.005  | 24991  | 80.4     | 2                        | 8.715  | 0.003  | 11476  | 71.1             |
| Aroclor-1248             | 3     | 9.001  | 0.002  | 67631  | 113.8    | 3                        | 9.166  | 0.009  | 11813  | 59.9             |
| Aroclor-1248             | 4     | 9.293  | -0.001 | 30983  | 105.3    | 4                        | 9.595  | 0.014  | 16549  | 67.9             |
| Total CollAve (4 peaks): |       |        |        | 92.7   |          | Total Col2Ave (4 peaks): |        |        |        | 69.7 RPD = 28    |
| Corrected Ave (3 peaks): |       |        |        | 85.7   |          | Corrected Ave (3 peaks): |        |        |        | 66.3 RPD = 26    |
|                          |       |        |        |        |          |                          |        |        |        |                  |
| Aroclor-1254             | 1     | 9.293  | -0.006 | 30983  | 62.4     | 1                        | 9.451  | 0.003  | 3749   | 15.6             |
| Aroclor-1254             | 2     | 9.381  | 0.003  | 9071   | 42.8     | 2                        | 9.974  | 0.005  | 2452   | 12.6             |
| Aroclor-1254             | 3     | 9.678  | 0.009  | 5199   | 16.3     | 3                        | 10.131 | 0.010  | 4718   | 11.1             |
| Aroclor-1254             | 4     | 9.820  | 0.012  | 8864   | 14.2     | 4                        | 10.389 | 0.018  | 4224   | 10.0             |
| Aroclor-1254             | 5     | 10.195 | 0.018  | 8085   | 19.9     | 5                        | 10.573 | 0.004  | 1573   | 6.7              |
| Total CollAve (5 peaks): |       |        |        | 31.1   |          | Total Col2Ave (5 peaks): |        |        |        | 11.2 RPD = 94*   |
| Corrected Ave (4 peaks): |       |        |        | 23.3   |          | Corrected Ave (4 peaks): |        |        |        | 10.1 RPD = 79*   |
|                          |       |        |        |        |          |                          |        |        |        |                  |
| Aroclor-1260             | 1     | 11.050 | 0.006  | 66852  | 126.1    | 1                        | 11.647 | -0.006 | 57235  | 157.9            |
| Aroclor-1260             | 2     | 11.366 | 0.006  | 6269   | 11.5     | 2                        | 11.919 | 0.002  | 25368  | 27.7             |
| Aroclor-1260             | 3     | 11.741 | 0.007  | 41446  | 28.9     | 3                        | 12.434 | -0.002 | 262014 | 1146.4           |
| Aroclor-1260             | 4     | 12.052 | -0.088 | 2691   | 3.6      | 4                        | 12.502 | -0.000 | 277060 | 466.9            |
| Aroclor-1260             | 5     | 12.245 | 0.002  | 349286 | 1080.9   | NS                       | ---    |        |        | ----             |
| Total CollAve (5 peaks): |       |        |        | 250.2  |          | Total Col2Ave (4 peaks): |        |        |        | 449.7 RPD = 57*  |
| Corrected Ave (4 peaks): |       |        |        | 42.5   |          | Corrected Ave (3 peaks): |        |        |        | 217.5 RPD = 135* |
|                          |       |        |        |        |          |                          |        |        |        |                  |
| Aroclor-1262             | 1     | 10.838 | 0.006  | 4520   | 11.8     | 1                        | 11.203 | 0.003  | 40576  | 82.5             |
| Aroclor-1262             | 2     | 12.245 | -0.000 | 349286 | 579.1    | 2                        | 11.647 | -0.006 | 57235  | 136.9            |
| Aroclor-1262             | 3     | 12.318 | -0.002 | 349715 | 534.1    | 3                        | 12.434 | -0.001 | 262014 | 588.4            |
| Aroclor-1262             | 4     | 12.988 | -0.001 | 141905 | 237.8    | 4                        | 12.502 | -0.002 | 277060 | 388.5            |
| Total CollAve (4 peaks): |       |        |        | 340.7  |          | Total Col2Ave (4 peaks): |        |        |        | 299.1 RPD = 13   |
| Corrected Ave (3 peaks): |       |        |        | 261.2  |          | Corrected Ave (3 peaks): |        |        |        | 202.6 RPD = 25   |
|                          |       |        |        |        |          |                          |        |        |        |                  |
| Aroclor-1268             | 1     | 12.245 | 0.001  | 349286 | 223.8    | 1                        | 12.434 | 0.000  | 262014 | 223.3            |
| Aroclor-1268             | 2     | 12.318 | 0.000  | 349715 | 224.6    | 2                        | 12.502 | 0.000  | 277060 | 221.9            |
| Aroclor-1268             | 3     | 12.699 | 0.000  | 289328 | 224.3    | 3                        | 12.893 | -0.000 | 208928 | 201.0            |
| Aroclor-1268             | 4     | 13.490 | 0.001  | 849299 | 222.1    | 4                        | 13.710 | 0.002  | 725831 | 226.1            |
| Total CollAve (4 peaks): |       |        |        | 223.7  |          | Total Col2Ave (4 peaks): |        |        |        | 218.1 RPD = 3    |



Corrected Ave (3 peaks): 223.4      Corrected Ave (3 peaks): 215.4      RPD = 4

Total PCB Area Col1 (5.909 - 13.792) = 2866092      Col1 Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.787 - 14.020) = 2084481      Col2 Total PCB = 0.6 ppm\*

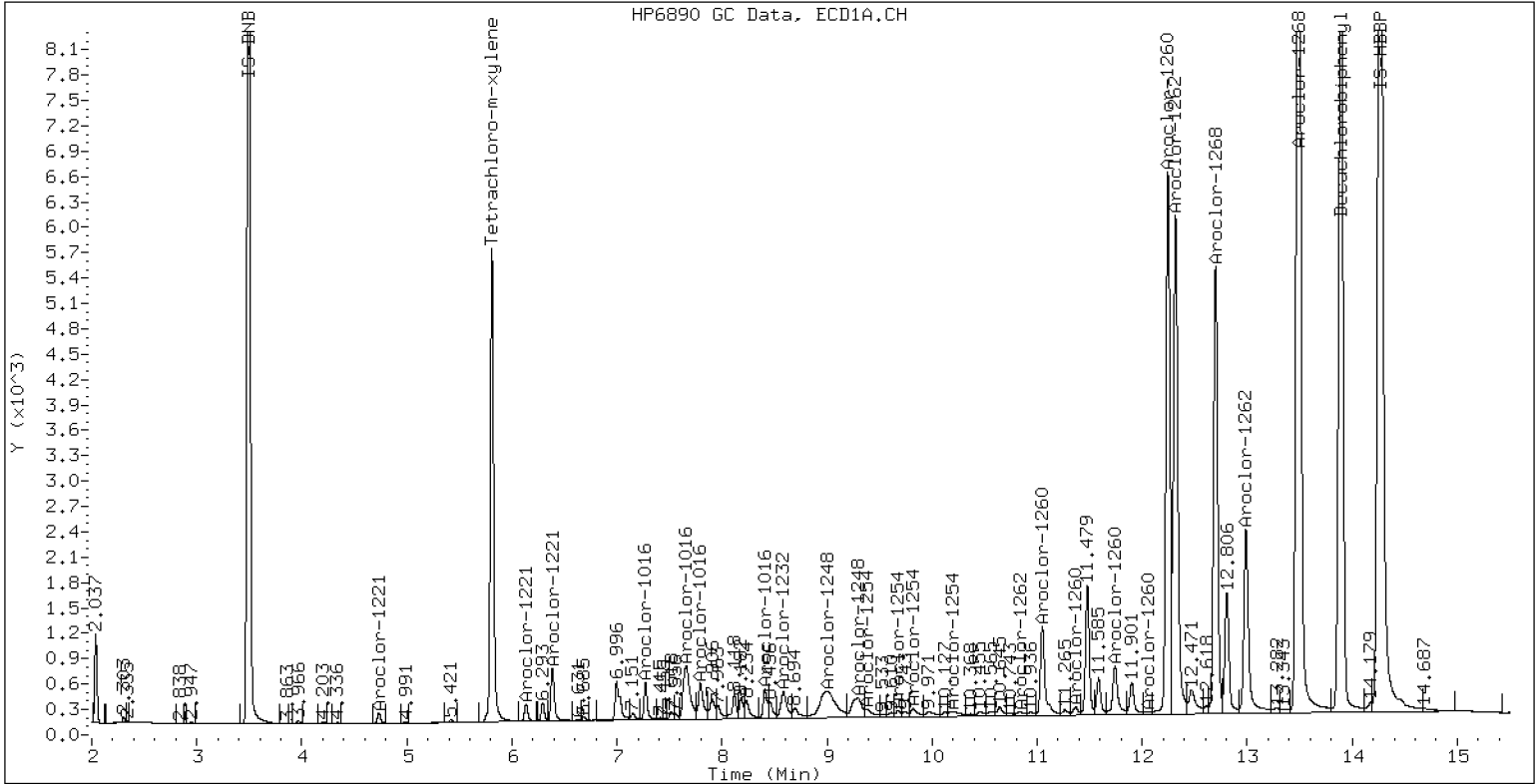
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR3268 SCV

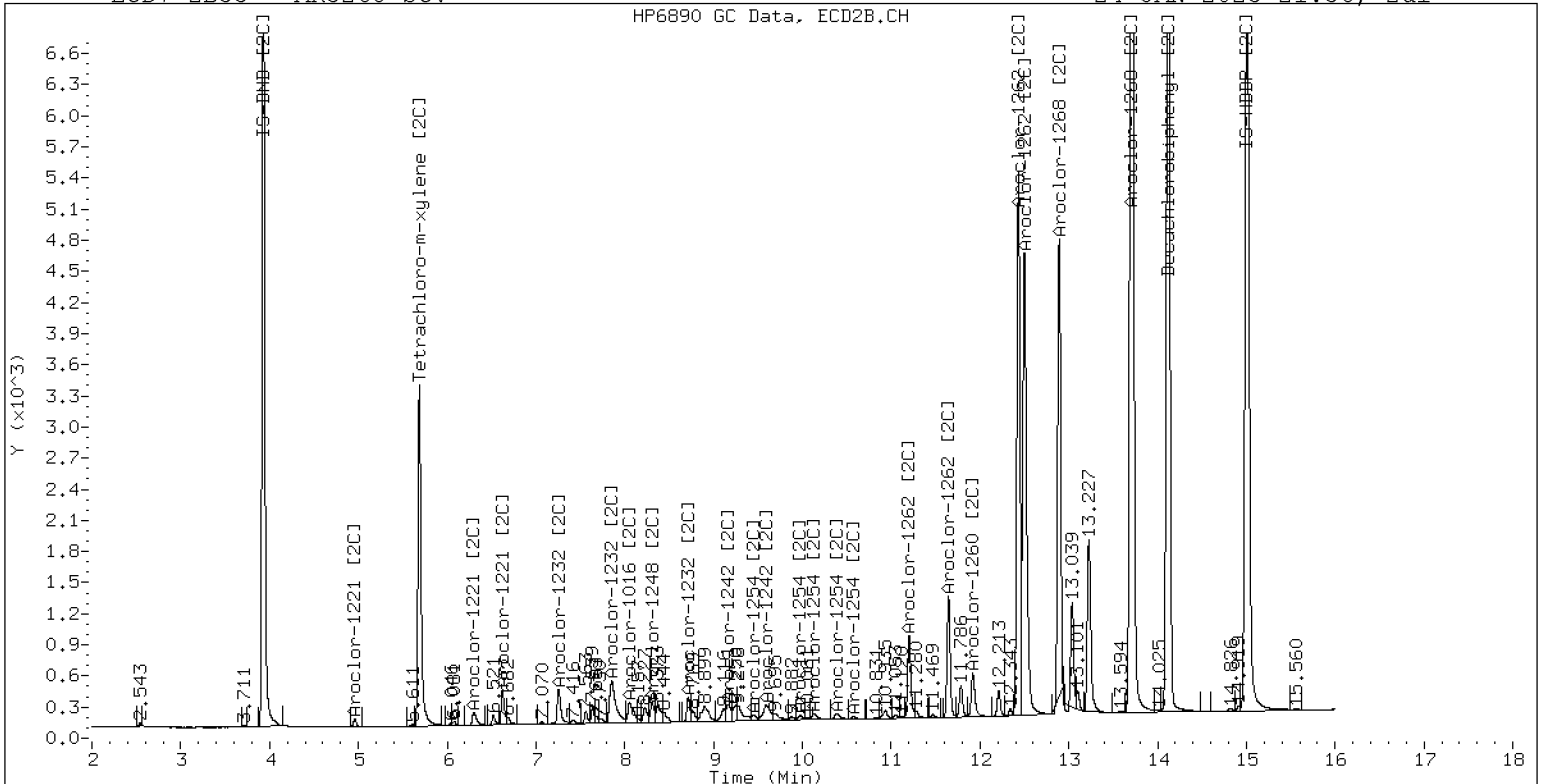
24-JAN-2023 21:36, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268 SCV

24-JAN-2023 21:36, 2ul



ZB-35 Manual Integration: NO



**CONTINUING CALIBRATION CHECK**  
**EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GA00061</u>         |
| Lab File ID:   | <u>02042313ECD7.D</u>            | Calibration Date: | <u>01/24/2023</u>      |
| Sequence:      | <u>SLB0084</u>                   | Injection Date:   | <u>02/04/23</u>        |
| Lab Sample ID: | <u>SLB0084-CCV1</u>              | Injection Time:   | <u>20:08</u>           |
| Sequence Name: | <u>AR1248CCV1</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1248               | A    | 250.00       | 211  | 0.0592639             | 0.0478715 |     | -15.7        | +/-20 |
| Aroclor-1248 (1)           | A    | 250.00       | 251  |                       | 0.0402164 |     |              |       |
| Aroclor-1248 (2)           | A    | 250.00       | 246  |                       | 0.0502348 |     |              |       |
| Aroclor-1248 (3)           | A    | 250.00       | 174  |                       | 0.0678622 |     |              |       |
| Aroclor-1248 (4)           | A    | 250.00       | 172  |                       | 0.0331724 |     |              |       |
| Aroclor 1248 [2C]          | A    | 250.00       | 244  | 0.0453673             | 0.0441497 |     | -2.3         | +/-20 |
| Aroclor-1248 (1) [2C]      | A    | 250.00       | 257  |                       | 0.0371175 |     |              |       |
| Aroclor-1248 (2) [2C]      | A    | 250.00       | 235  |                       | 0.0366196 |     |              |       |
| Aroclor-1248 (3) [2C]      | A    | 250.00       | 248  |                       | 0.0471778 |     |              |       |
| Aroclor-1248 (4) [2C]      | A    | 250.00       | 237  |                       | 0.0556837 |     |              |       |
| Decachlorobiphenyl         | A    | 40.000       | 35.9 | 0.8555994             | 0.7680921 |     | -10.3        | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 41.2 | 1.1307870             | 1.1650210 |     | 3.0          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 40.3 | 1.2696430             | 1.2804820 |     | 0.8          | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 40.8 | 1.0814980             | 1.1018520 |     | 2.0          | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042313ECD7.D  
 Data file 2: /230204.b/230204.b/02042313ECD7.D  
 Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
 Compound Sublist: AR1248.sub  
 Instrument, Inj. Vol.: ecd7.i, 2ul  
 Quant Method: Internal Std

ARI ID: AR1248CCV1  
 Client ID:  
 Injection Date: 04-FEB-2023 20:08  
 Report Date: 02/06/2023 16:43  
 Matrix: NONE  
 Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD  | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|------|----------------------|
| 5.806  | 0.000         | 246791   | 5.683  | -0.001         | 188382   | 41.2       | 40.8        | 1.1  | Tetrachloro-m-xylene |
| 13.889 | 0.001         | 193343   | 14.116 | -0.000         | 233912   | 35.9       | 40.3        | 11.6 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 423668      | -15.8 |
| Hexabromobiphenyl  | 647433         | 503437      | -22.2 |
| Column 2           |                |             |       |
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 336911         | 341937      | 1.5   |
| Hexabromobiphenyl  | 382032         | 365350      | -4.4  |

\* Standard Areas taken from Initial Cal Level 3  
 Initial Calibration Date: 24-JAN-2023  
 <- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |        |       |                          | ZB35 Col |       |       |       |          |  |
|--------------------------|-------|-------|--------|-------|--------------------------|----------|-------|-------|-------|----------|--|
| Aroclor                  | Peak# | RT    | Shift  | Area  | Amount                   | Peak#    | RT    | Shift | Area  | Amount   |  |
| Aroclor-1248             | 1     | 8.400 | 0.000  | 53245 | 251.2                    | 1        | 8.302 | 0.000 | 39662 | 256.6    |  |
| Aroclor-1248             | 2     | 8.572 | -0.000 | 66509 | 246.0                    | 2        | 8.709 | 0.000 | 39130 | 235.2    |  |
| Aroclor-1248             | 3     | 8.993 | 0.002  | 89847 | 173.7                    | 3        | 9.151 | 0.000 | 50412 | 248.0    |  |
| Aroclor-1248             | 4     | 9.291 | 0.001  | 43919 | 171.6                    | 4        | 9.575 | 0.000 | 59501 | 236.7    |  |
| Total CollAve (4 peaks): |       |       |        | 210.6 | Total Col2Ave (4 peaks): |          |       |       | 244.1 | RPD = 15 |  |
| Corrected Ave (3 peaks): |       |       |        | 197.1 | Corrected Ave (3 peaks): |          |       |       | 239.9 | RPD = 20 |  |
| CalAmt %D:               |       |       |        | -15.7 | CalAmt %D:               |          |       |       | -2.4  |          |  |

Total PCB Area Col1 (5.906 - 13.788) = 984078 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.784 - 14.016) = 759603 Col2 Total PCB = 0.2 ppm\*

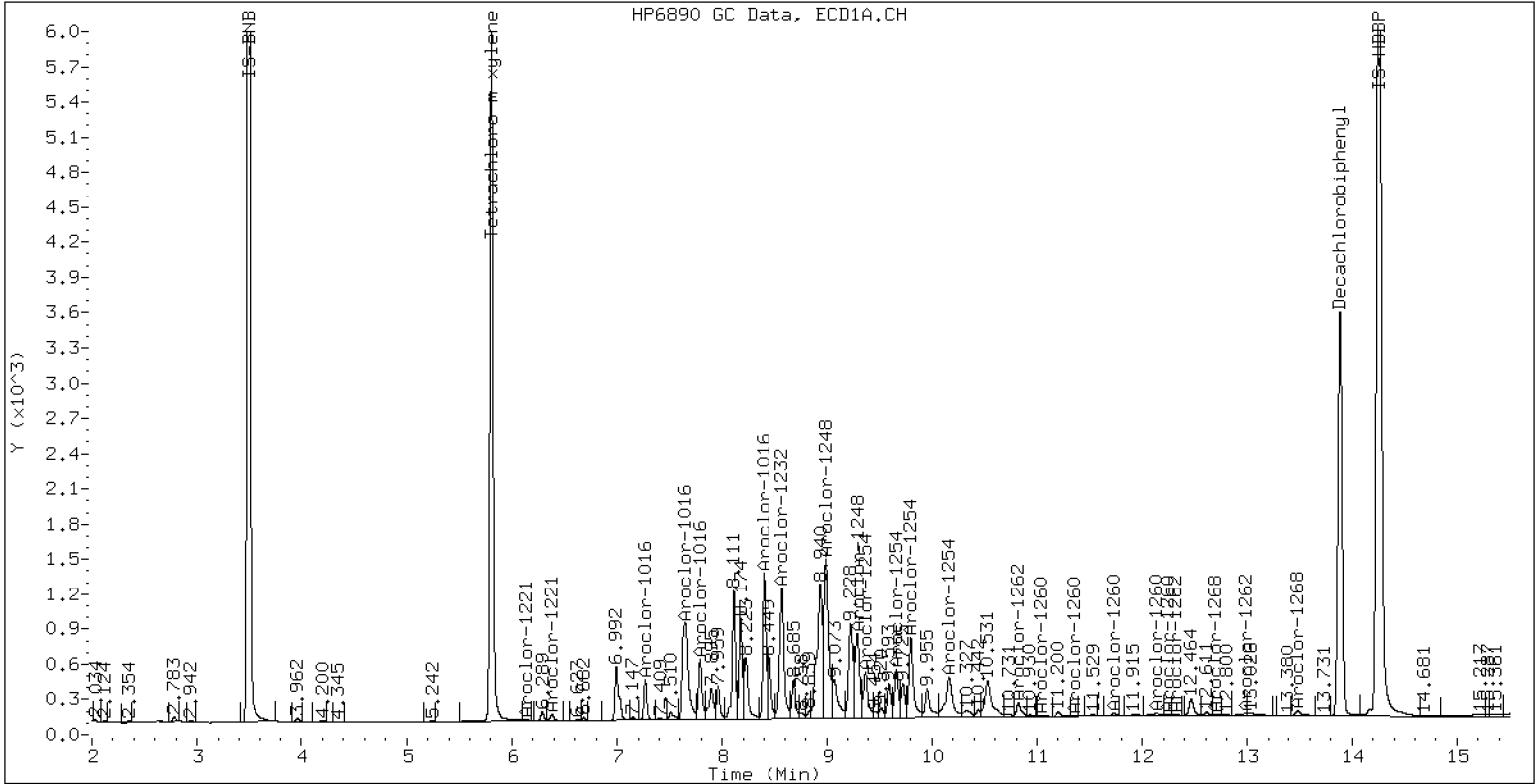
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1

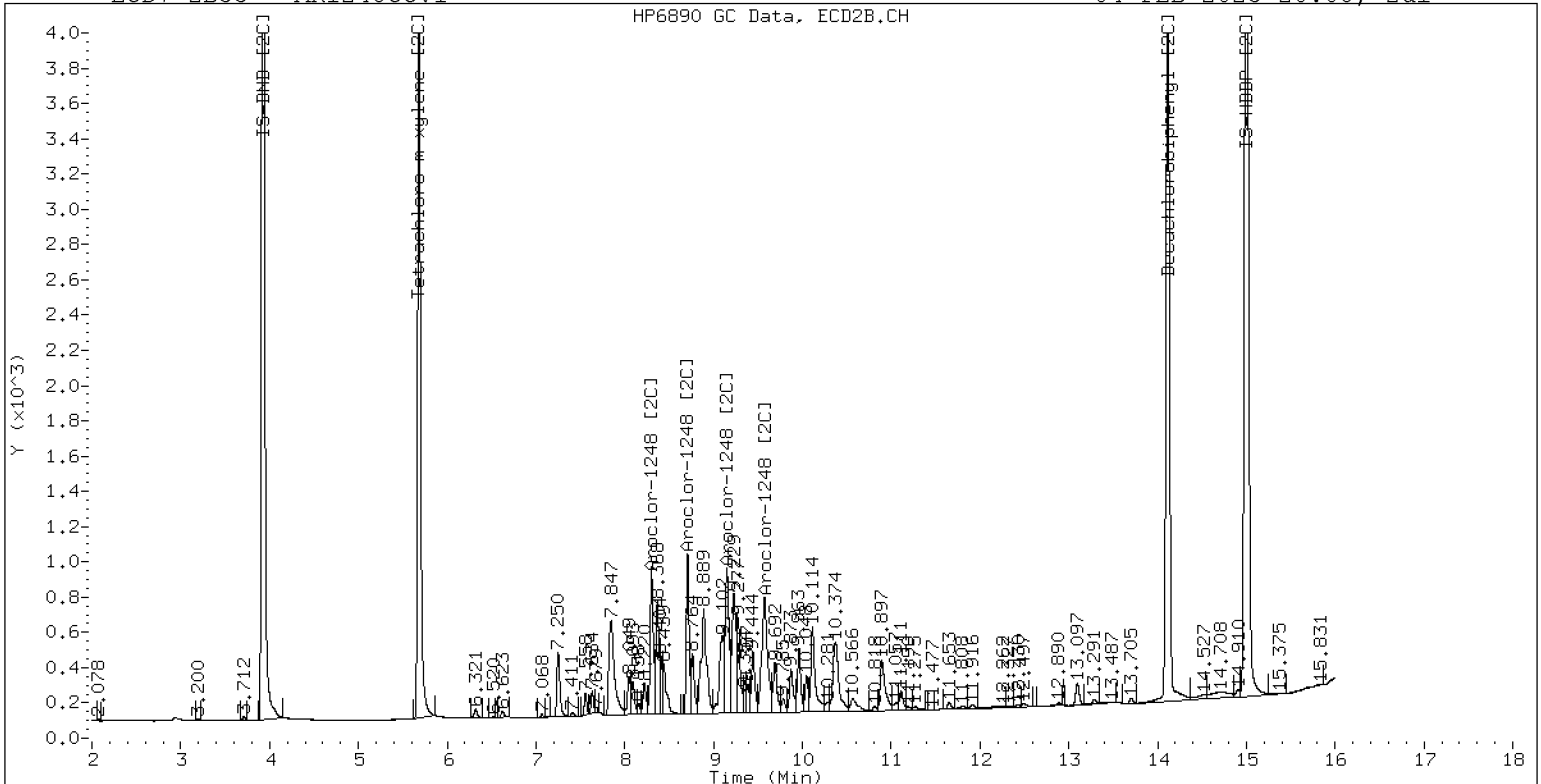
04-FEB-2023 20:08, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV1

04-FEB-2023 20:08, 2ul



ZB-35 Manual Integration: NO



**CONTINUING CALIBRATION CHECK**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ECD7

Calibration: GA00061

Lab File ID: 02042314ECD7.D

Calibration Date: 01/24/2023

Sequence: SLB0084

Injection Date: 02/04/23

Lab Sample ID: SLB0084-CCV2

Injection Time: 20:29

Sequence Name: AR1660CCV2

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1016               | A    | 250.00       | 261  | 0.0506755             | 0.0529843 |     | 4.4          | +/-20 |
| Aroclor-1016 (1)           | A    | 250.00       | 265  | 0.0297277             | 0.0315488 |     | 6.0          |       |
| Aroclor-1016 (2)           | A    | 250.00       | 267  | 0.0985017             | 0.1050758 |     | 6.8          |       |
| Aroclor-1016 (3)           | A    | 250.00       | 243  | 0.0453193             | 0.0439834 |     | -2.8         |       |
| Aroclor-1016 (4)           | A    | 250.00       | 269  | 0.0291533             | 0.0313292 |     | 7.6          |       |
| Aroclor 1016 [2C]          | A    | 250.00       | 262  | 0.0519244             | 0.0543017 |     | 4.7          | +/-20 |
| Aroclor-1016 (1) [2C]      | A    | 250.00       | 263  | 0.0433907             | 0.0456423 |     | 5.2          |       |
| Aroclor-1016 (2) [2C]      | A    | 250.00       | 259  | 0.0950862             | 0.0986797 |     | 3.6          |       |
| Aroclor-1016 (3) [2C]      | A    | 250.00       | 269  | 0.0388014             | 0.0417763 |     | 7.6          |       |
| Aroclor-1016 (4) [2C]      | A    | 250.00       | 256  | 0.0304194             | 0.0311083 |     | 2.4          |       |
| Aroclor 1260               | A    | 250.00       | 232  | 0.0605224             | 0.0564011 |     | -7.3         | +/-20 |
| Aroclor-1260 (1)           | A    | 250.00       | 242  | 0.0448870             | 0.0433993 |     | -3.2         |       |
| Aroclor-1260 (2)           | A    | 250.00       | 240  | 0.0461412             | 0.0443138 |     | -4.0         |       |
| Aroclor-1260 (3)           | A    | 250.00       | 233  | 0.1214672             | 0.1131837 |     | -6.8         |       |
| Aroclor-1260 (4)           | A    | 250.00       | 230  | 0.0627593             | 0.0576496 |     | -8.0         |       |
| Aroclor-1260 (5)           | A    | 250.00       | 214  | 0.0273573             | 0.0234590 |     | -14.4        |       |
| Aroclor 1260 [2C]          | A    | 250.00       | 247  | 0.0836545             | 0.0815474 |     | -1.2         | +/-20 |
| Aroclor-1260 (1) [2C]      | A    | 250.00       | 246  | 0.0577136             | 0.0566901 |     | -1.6         |       |
| Aroclor-1260 (2) [2C]      | A    | 250.00       | 239  | 0.1460113             | 0.1397069 |     | -4.4         |       |
| Aroclor-1260 (3) [2C]      | A    | 250.00       | 259  | 0.0363944             | 0.0376605 |     | 3.6          |       |
| Aroclor-1260 (4) [2C]      | A    | 250.00       | 244  | 0.0944986             | 0.0921321 |     | -2.4         |       |
| Decachlorobiphenyl         | A    | 40.000       | 38.6 | 0.8555994             | 0.8253900 |     | -3.5         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 43.3 | 1.1307870             | 1.2249640 |     | 8.3          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 41.4 | 1.2696430             | 1.3134880 |     | 3.5          | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 42.3 | 1.0814980             | 1.1449360 |     | 5.8          | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042314ECD7.D  
Data file 2: /230204.b/230204.b/02042314ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660CCV2  
Client ID:  
Injection Date: 04-FEB-2023 20:29  
Report Date: 02/06/2023 16:43  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col<br>Shift | Response | RT     | ZB35 Col<br>Shift | Response | ZB5<br>on col | ZB35<br>on col | RPD | Compound/Flag        |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.807  | 0.001            | 255312   | 5.683  | -0.001            | 193046   | 43.3          | 42.3           | 2.3 | Tetrachloro-m-xylene |
| 13.889 | 0.001            | 241590   | 14.116 | 0.000             | 263548   | 38.6          | 41.4           | 7.0 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |       |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 416848      | -17.2 |
| Hexabromobiphenyl  | 647433         | 585396      | -9.6  |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 336911         | 337217      | 0.1 |
| Hexabromobiphenyl  | 382032         | 401295      | 5.0 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                  |       |        |       |        | ZB35 Col |                          |        |       |        |               |
|--------------------------|-------|--------|-------|--------|----------|--------------------------|--------|-------|--------|---------------|
| Aroclor                  | Peak# | RT     | Shift | Area   | Amount   | Peak#                    | RT     | Shift | Area   | Amount        |
| Aroclor-1016             | 1     | 7.268  | 0.001 | 41097  | 265.3    | 1                        | 7.252  | 0.000 | 48098  | 263.0         |
| Aroclor-1016             | 2     | 7.649  | 0.001 | 136877 | 266.7    | 2                        | 7.848  | 0.001 | 103989 | 259.4         |
| Aroclor-1016             | 3     | 7.786  | 0.001 | 57295  | 242.6    | 3                        | 8.047  | 0.001 | 44024  | 269.2         |
| Aroclor-1016             | 4     | 8.401  | 0.001 | 40811  | 268.7    | 4                        | 8.302  | 0.000 | 32782  | 255.7         |
| Total CollAve (4 peaks): |       |        |       | 260.8  |          | Total Col2Ave (4 peaks): |        |       |        | 261.8 RPD = 0 |
| Corrected Ave (3 peaks): |       |        |       | 258.2  |          | Corrected Ave (3 peaks): |        |       |        | 259.4 RPD = 0 |
| CalAmt %D:               |       |        |       | 4.3    |          | CalAmt %D:               |        |       |        | 4.7           |
| Aroclor-1260             | 1     | 11.040 | 0.002 | 79393  | 241.7    | 1                        | 11.648 | 0.001 | 71092  | 245.6         |
| Aroclor-1260             | 2     | 11.356 | 0.001 | 81066  | 240.1    | 2                        | 11.911 | 0.000 | 175199 | 239.2         |
| Aroclor-1260             | 3     | 11.728 | 0.001 | 207054 | 233.0    | 3                        | 12.430 | 0.000 | 47228  | 258.7         |
| Aroclor-1260             | 4     | 12.132 | 0.001 | 105462 | 229.6    | 4                        | 12.495 | 0.000 | 115538 | 243.7         |
| Aroclor-1260             | 5     | 12.239 | 0.000 | 42915  | 214.4    | NS                       | ---    |       |        | ----          |
| Total CollAve (5 peaks): |       |        |       | 231.8  |          | Total Col2Ave (4 peaks): |        |       |        | 246.8 RPD = 6 |
| Corrected Ave (4 peaks): |       |        |       | 229.3  |          | Corrected Ave (3 peaks): |        |       |        | 242.8 RPD = 6 |
| CalAmt %D:               |       |        |       | -7.3   |          | CalAmt %D:               |        |       |        | -1.3          |

Total PCB Area Coll (5.906 - 13.788) = 2324809 Coll Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.784 - 14.016) = 1744280 Col2 Total PCB = 0.5 ppm\*

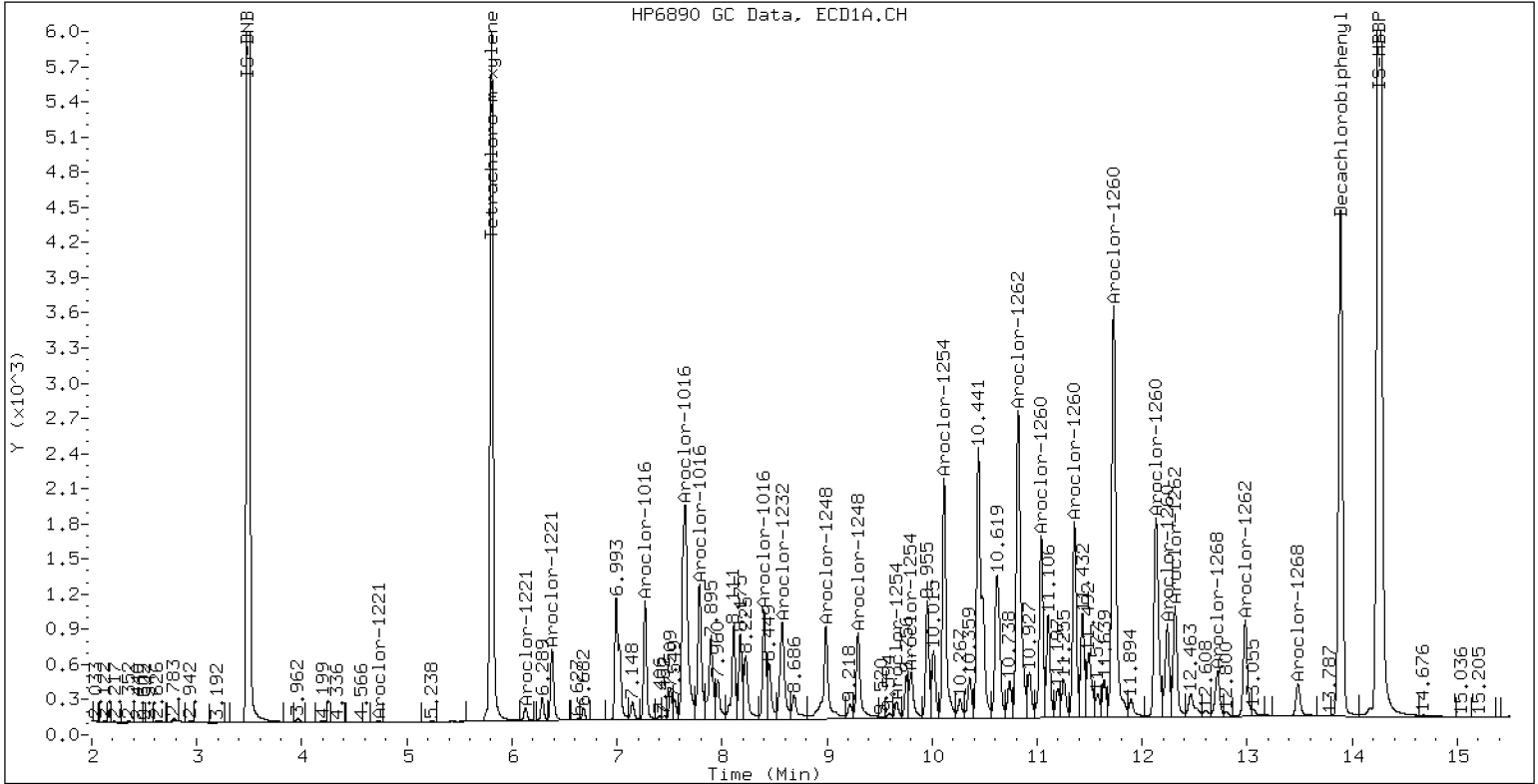
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV2

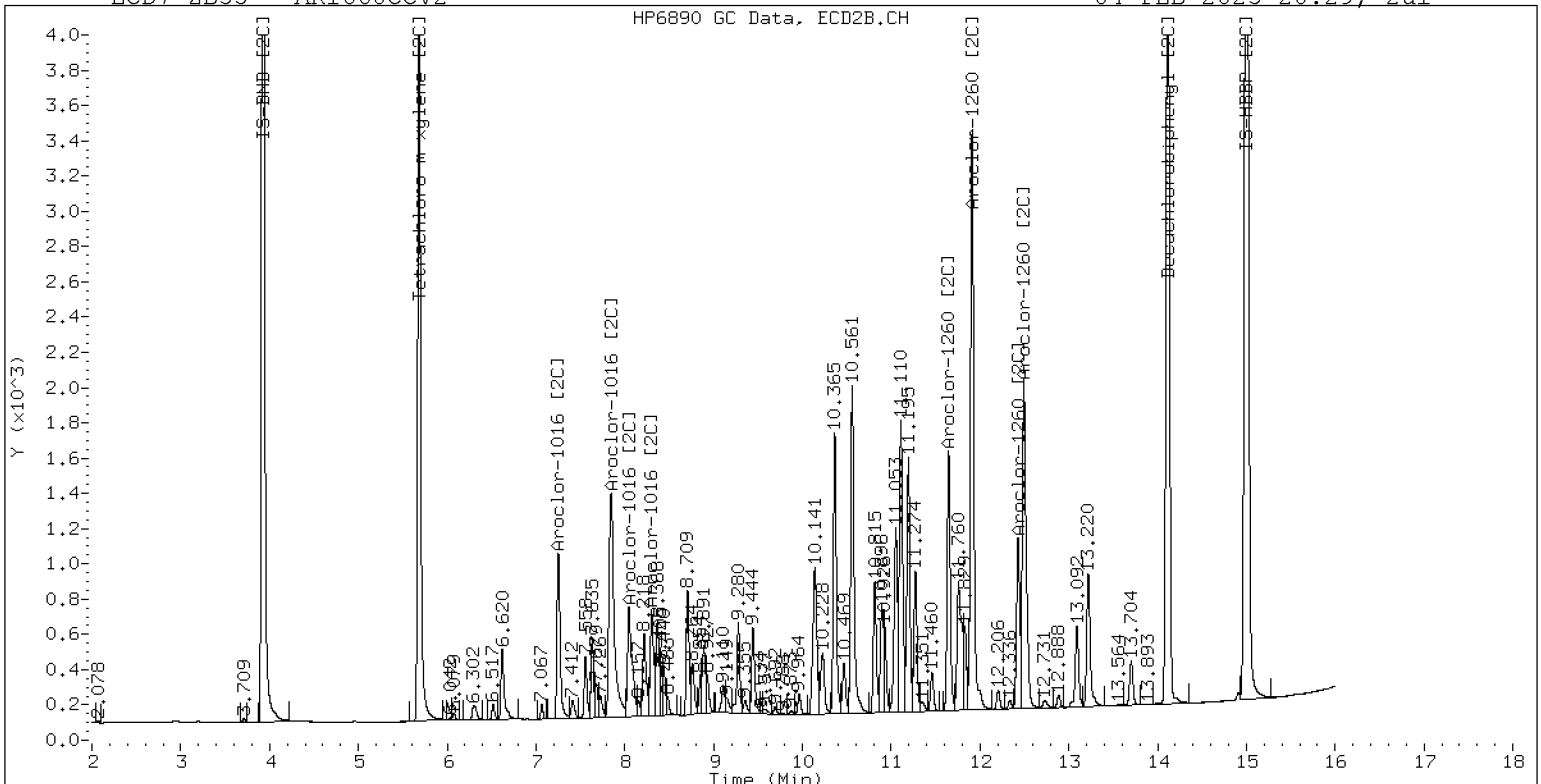
04-FEB-2023 20:29, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV2

04-FEB-2023 20:29, 2u1



ZB-35 Manual Integration: NO



**CONTINUING CALIBRATION CHECK**  
**EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GA00061</u>         |
| Lab File ID:   | <u>02042329ECD7.D</u>            | Calibration Date: | <u>01/24/2023</u>      |
| Sequence:      | <u>SLB0084</u>                   | Injection Date:   | <u>02/05/23</u>        |
| Lab Sample ID: | <u>SLB0084-CCV3</u>              | Injection Time:   | <u>01:45</u>           |
| Sequence Name: | <u>AR1242CCV3</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|---------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| Aroclor 1242               | A    | 250.00       | 254  | 0.0411165             | 0.0419599 |     | 1.5          | +/-20   |
| Aroclor-1242 (1)           | A    | 250.00       | 260  |                       | 0.0254297 |     |              |         |
| Aroclor-1242 (2)           | A    | 250.00       | 260  |                       | 0.0832772 |     |              |         |
| Aroclor-1242 (3)           | A    | 250.00       | 249  |                       | 0.0237204 |     |              |         |
| Aroclor-1242 (4)           | A    | 250.00       | 246  |                       | 0.0354123 |     |              |         |
| Aroclor 1242 [2C]          | A    | 250.00       | 251  | 0.0423236             | 0.0426026 |     | 0.4          | +/-20   |
| Aroclor-1242 (1) [2C]      | A    | 250.00       | 262  |                       | 0.0366515 |     |              |         |
| Aroclor-1242 (2) [2C]      | A    | 250.00       | 253  |                       | 0.0786273 |     |              |         |
| Aroclor-1242 (3) [2C]      | A    | 250.00       | 253  |                       | 0.0246562 |     |              |         |
| Aroclor-1242 (4) [2C]      | A    | 250.00       | 236  |                       | 0.0304752 |     |              |         |
| Decachlorobiphenyl         | A    | 40.000       | 34.5 | 0.8555994             | 0.7381736 |     | -13.8        | +/-20   |
| Tetrachlorometaxylene      | A    | 40.000       | 50.7 | 1.1307870             | 1.4340280 |     | 26.8         | +/-20 * |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 37.8 | 1.2696430             | 1.1989310 |     | -5.5         | +/-20   |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 50.1 | 1.0814980             | 1.3535960 |     | 25.3         | +/-20 * |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042329ECD7.D  
Data file 2: /230204.b/230204.b/02042329ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: AR1242.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1242CCV3  
Client ID:  
Injection Date: 05-FEB-2023 01:45  
Report Date: 02/06/2023 16:44  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col<br>Shift | Response | RT     | ZB35 Col<br>Shift | Response | ZB5<br>on col | ZB35<br>on col | RPD | Compound/Flag        |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.807  | 0.001            | 309416   | 5.683  | -0.001            | 239464   | 50.7          | 50.1           | 1.3 | Tetrachloro-m-xylene |
| 13.889 | 0.001            | 179856   | 14.115 | -0.001            | 220237   | 34.5          | 37.8           | 9.0 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |       |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 431534      | -14.3 |
| Hexabromobiphenyl  | 647433         | 487300      | -24.7 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 353819      | 5.0  |
| Hexabromobiphenyl  | 382032         | 367389      | -3.8 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |       |        |                          | ZB35 Col |       |       |       |         |  |
|--------------------------|-------|-------|-------|--------|--------------------------|----------|-------|-------|-------|---------|--|
| Aroclor                  | Peak# | RT    | Shift | Area   | Amount                   | Peak#    | RT    | Shift | Area  | Amount  |  |
| Aroclor-1242             | 1     | 7.268 | 0.000 | 34293  | 259.5                    | 1        | 7.251 | 0.000 | 40525 | 261.9   |  |
| Aroclor-1242             | 2     | 7.647 | 0.000 | 112303 | 259.7                    | 2        | 7.848 | 0.000 | 86937 | 252.9   |  |
| Aroclor-1242             | 3     | 8.401 | 0.000 | 31988  | 249.0                    | 3        | 9.151 | 0.000 | 27262 | 253.3   |  |
| Aroclor-1242             | 4     | 8.574 | 0.000 | 47755  | 246.0                    | 4        | 9.576 | 0.000 | 33696 | 236.2   |  |
| Total Col1Ave (4 peaks): |       |       |       | 253.6  | Total Col2Ave (4 peaks): |          |       |       | 251.1 | RPD = 1 |  |
| Corrected Ave (3 peaks): |       |       |       | 251.5  | Corrected Ave (3 peaks): |          |       |       | 247.5 | RPD = 2 |  |
| CalAmt %D:               |       |       |       | 1.4    | CalAmt %D:               |          |       |       | 0.4   |         |  |

Total PCB Area Col1 (5.906 - 13.788) = 798583 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.784 - 14.016) = 611939 Col2 Total PCB = 0.2 ppm\*

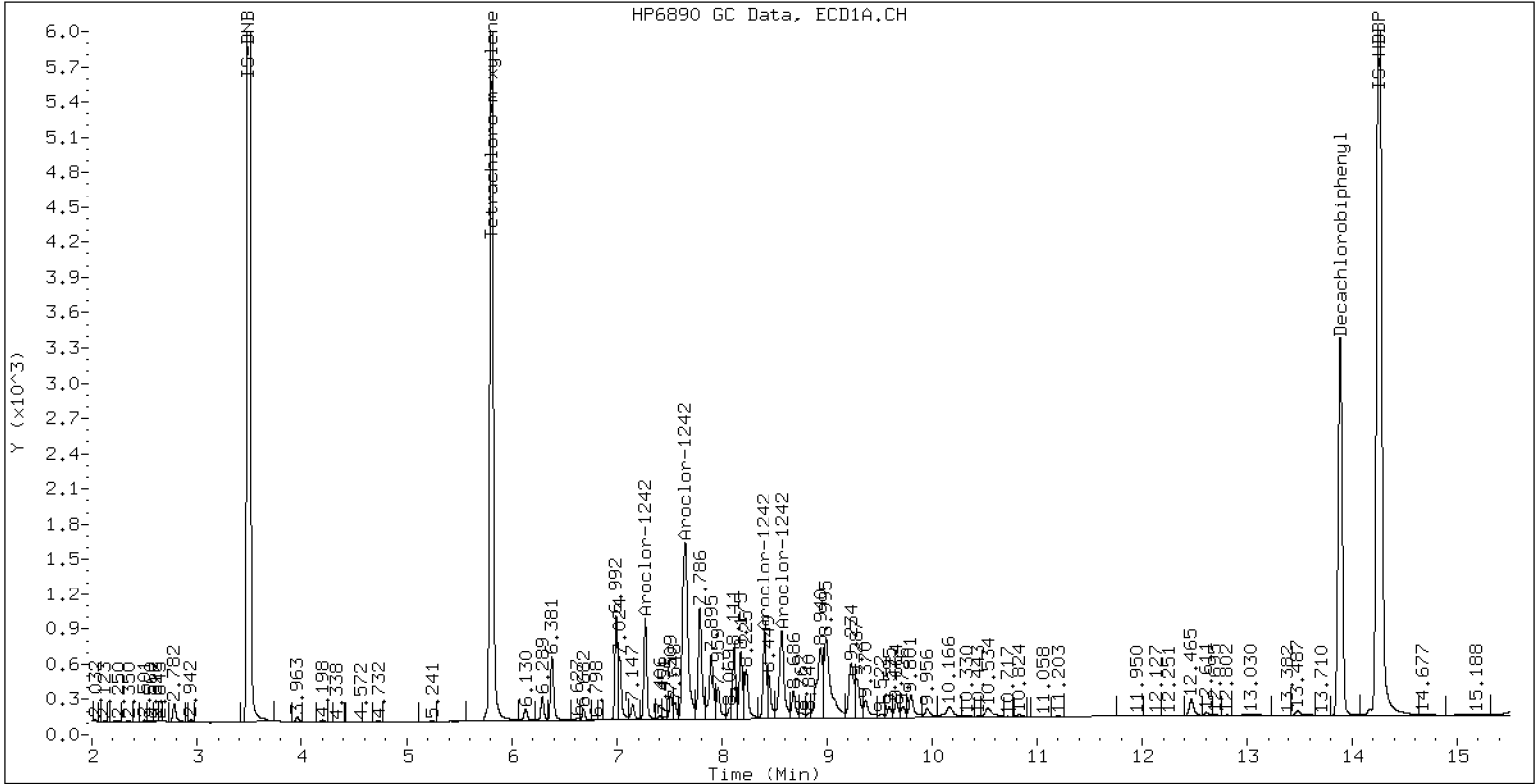
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3

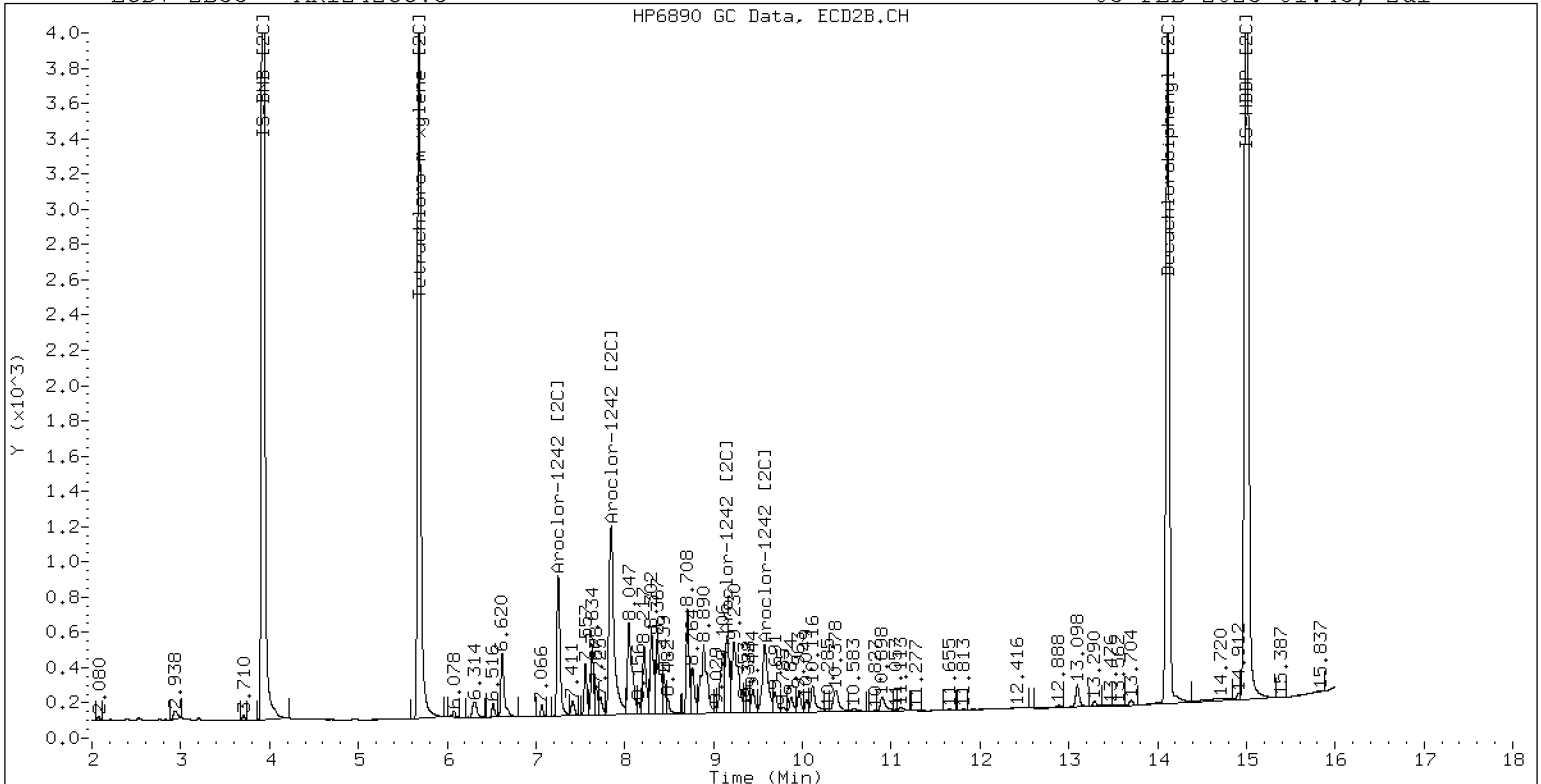
05-FEB-2023 01:45, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCV3

05-FEB-2023 01:45, 2ul



ZB-35 Manual Integration: NO



## CONTINUING CALIBRATION CHECK EPA 8082A

|  |                                     |
|--|-------------------------------------|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0179</u>                 |
| Client: <u>Anchor QEA, LLC</u>               | Project: <u>AOC5 MR Phase 1</u>     |
| Instrument ID: <u>ECD7</u>                   | Calibration: <u>GA00061</u>         |
| Lab File ID: <u>02042330ECD7.D</u>           | Calibration Date: <u>01/24/2023</u> |
| Sequence: <u>SLB0084</u>                     | Injection Date: <u>02/05/23</u>     |
| Lab Sample ID: <u>SLB0084-CCV4</u>           | Injection Time: <u>02:06</u>        |
| Sequence Name: <u>AR1660CCV4</u>             |                                     |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1016               | A    | 250.00       | 259  | 0.0506755             | 0.0525610 |     | 3.4          | +/-20 |
| Aroclor-1016 (1)           | A    | 250.00       | 263  | 0.0297277             | 0.0312894 |     | 5.2          |       |
| Aroclor-1016 (2)           | A    | 250.00       | 265  | 0.0985017             | 0.1044357 |     | 6.0          |       |
| Aroclor-1016 (3)           | A    | 250.00       | 240  | 0.0453193             | 0.0435231 |     | -4.0         |       |
| Aroclor-1016 (4)           | A    | 250.00       | 266  | 0.0291533             | 0.0309958 |     | 6.4          |       |
| Aroclor 1016 [2C]          | A    | 250.00       | 261  | 0.0519244             | 0.0541495 |     | 4.5          | +/-20 |
| Aroclor-1016 (1) [2C]      | A    | 250.00       | 260  | 0.0433907             | 0.0451014 |     | 4.0          |       |
| Aroclor-1016 (2) [2C]      | A    | 250.00       | 259  | 0.0950862             | 0.0984531 |     | 3.6          |       |
| Aroclor-1016 (3) [2C]      | A    | 250.00       | 270  | 0.0388014             | 0.0418791 |     | 8.0          |       |
| Aroclor-1016 (4) [2C]      | A    | 250.00       | 256  | 0.0304194             | 0.0311645 |     | 2.4          |       |
| Aroclor 1260               | A    | 250.00       | 228  | 0.0605224             | 0.0553478 |     | -8.9         | +/-20 |
| Aroclor-1260 (1)           | A    | 250.00       | 240  | 0.0448870             | 0.0430411 |     | -4.0         |       |
| Aroclor-1260 (2)           | A    | 250.00       | 237  | 0.0461412             | 0.0437076 |     | -5.2         |       |
| Aroclor-1260 (3)           | A    | 250.00       | 228  | 0.1214672             | 0.1108529 |     | -8.8         |       |
| Aroclor-1260 (4)           | A    | 250.00       | 224  | 0.0627593             | 0.0562110 |     | -10.4        |       |
| Aroclor-1260 (5)           | A    | 250.00       | 210  | 0.0273573             | 0.0229265 |     | -16.0        |       |
| Aroclor 1260 [2C]          | A    | 250.00       | 239  | 0.0836545             | 0.0785887 |     | -4.3         | +/-20 |
| Aroclor-1260 (1) [2C]      | A    | 250.00       | 240  | 0.0577136             | 0.0553891 |     | -4.0         |       |
| Aroclor-1260 (2) [2C]      | A    | 250.00       | 227  | 0.1460113             | 0.1323747 |     | -9.2         |       |
| Aroclor-1260 (3) [2C]      | A    | 250.00       | 253  | 0.0363944             | 0.0368204 |     | 1.2          |       |
| Aroclor-1260 (4) [2C]      | A    | 250.00       | 237  | 0.0944986             | 0.0897705 |     | -5.2         |       |
| Decachlorobiphenyl         | A    | 40.000       | 38.4 | 0.8555994             | 0.8210128 |     | -4.0         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 43.2 | 1.1307870             | 1.2221160 |     | 8.0          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 40.4 | 1.2696430             | 1.2809850 |     | 1.0          | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 42.3 | 1.0814980             | 1.1433820 |     | 5.8          | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042330ECD7.D  
Data file 2: /230204.b/230204.b/02042330ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660CCV4  
Client ID:  
Injection Date: 05-FEB-2023 02:06  
Report Date: 02/06/2023 16:44  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.807  | 0.002         | 262417   | 5.684  | 0.000          | 200807   | 43.2       | 42.3        | 2.2 | Tetrachloro-m-xylene |
| 13.889 | 0.000         | 242028   | 14.116 | 0.000          | 267722   | 38.4       | 40.4        | 5.0 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |       |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 429447      | -14.7 |
| Hexabromobiphenyl  | 647433         | 589584      | -8.9  |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 336911         | 351251      | 4.3 |
| Hexabromobiphenyl  | 382032         | 417994      | 9.4 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                  |       |        |       |        |                          | ZB35 Col |        |       |        |         |  |
|--------------------------|-------|--------|-------|--------|--------------------------|----------|--------|-------|--------|---------|--|
| Aroclor                  | Peak# | RT     | Shift | Area   | Amount                   | Peak#    | RT     | Shift | Area   | Amount  |  |
| Aroclor-1016             | 1     | 7.268  | 0.001 | 41991  | 263.1                    | 1        | 7.252  | 0.000 | 49506  | 259.9   |  |
| Aroclor-1016             | 2     | 7.648  | 0.000 | 140155 | 265.1                    | 2        | 7.847  | 0.000 | 108068 | 258.9   |  |
| Aroclor-1016             | 3     | 7.786  | 0.001 | 58409  | 240.1                    | 3        | 8.047  | 0.000 | 45969  | 269.8   |  |
| Aroclor-1016             | 4     | 8.400  | 0.000 | 41597  | 265.8                    | 4        | 8.302  | 0.000 | 34208  | 256.1   |  |
| Total CollAve (4 peaks): |       |        |       | 258.5  | Total Col2Ave (4 peaks): |          |        |       | 261.2  | RPD = 1 |  |
| Corrected Ave (3 peaks): |       |        |       | 256.1  | Corrected Ave (3 peaks): |          |        |       | 258.3  | RPD = 1 |  |
| CalAmt %D:               |       |        |       | 3.4    | CalAmt %D:               |          |        |       | 4.5    |         |  |
| Aroclor-1260             | 1     | 11.039 | 0.001 | 79301  | 239.7                    | 1        | 11.647 | 0.000 | 72351  | 239.9   |  |
| Aroclor-1260             | 2     | 11.356 | 0.001 | 80529  | 236.8                    | 2        | 11.911 | 0.000 | 172912 | 226.7   |  |
| Aroclor-1260             | 3     | 11.728 | 0.001 | 204241 | 228.2                    | 3        | 12.430 | 0.000 | 48096  | 252.9   |  |
| Aroclor-1260             | 4     | 12.131 | 0.001 | 103566 | 223.9                    | 4        | 12.495 | 0.000 | 117261 | 237.5   |  |
| Aroclor-1260             | 5     | 12.239 | 0.000 | 42241  | 209.5                    | NS       | ---    |       |        | ----    |  |
| Total CollAve (5 peaks): |       |        |       | 227.6  | Total Col2Ave (4 peaks): |          |        |       | 239.3  | RPD = 5 |  |
| Corrected Ave (4 peaks): |       |        |       | 224.6  | Corrected Ave (3 peaks): |          |        |       | 234.7  | RPD = 4 |  |
| CalAmt %D:               |       |        |       | -9.0   | CalAmt %D:               |          |        |       | -4.3   |         |  |

Total PCB Area Col1 (5.906 - 13.788) = 2332202 Col1 Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.784 - 14.016) = 1806918 Col2 Total PCB = 0.5 ppm\*

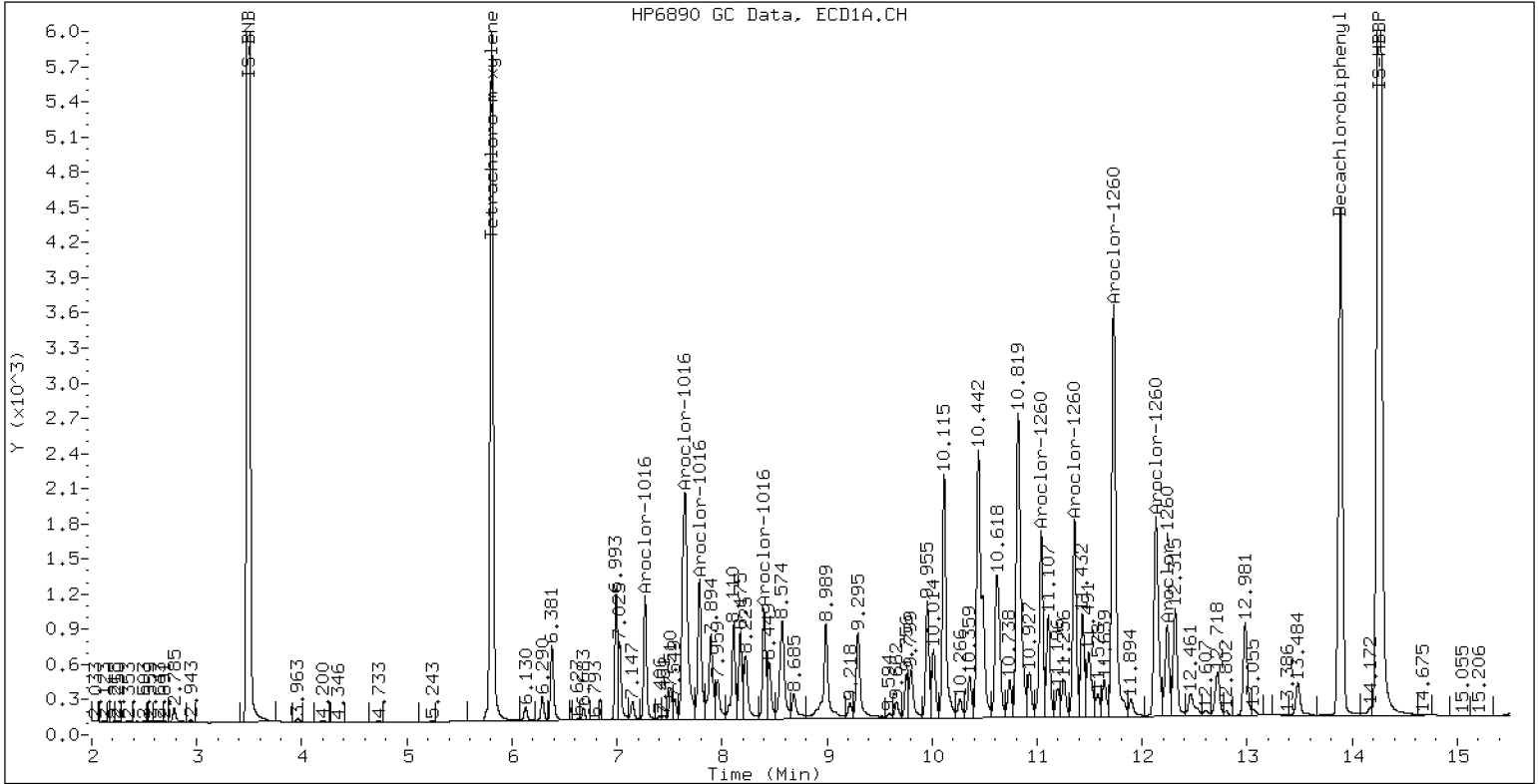
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4

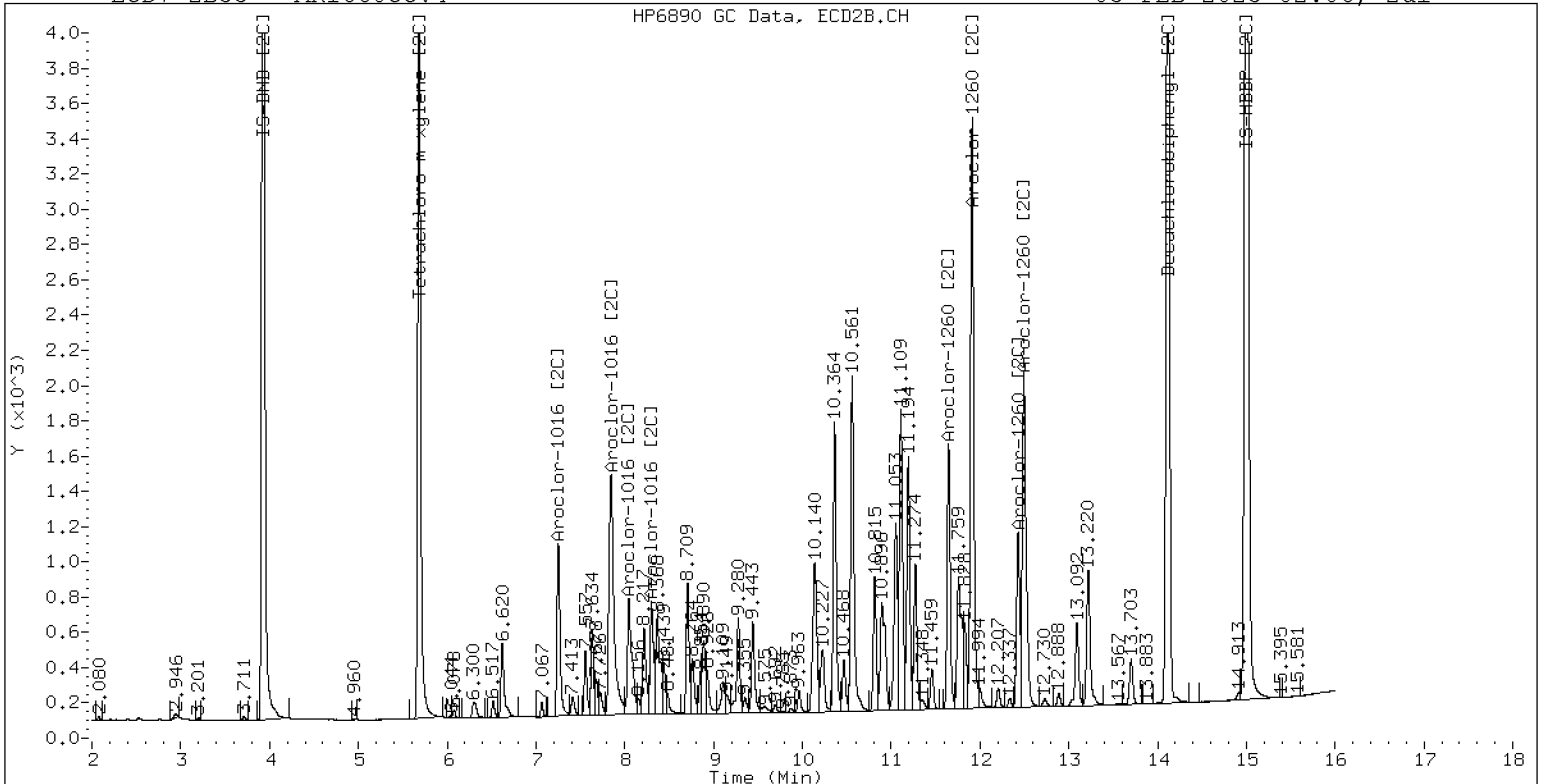
05-FEB-2023 02:06, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV4

05-FEB-2023 02:06, 2ul



ZB-35 Manual Integration: NO



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042345ECD7.D  
Data file 2: /230204.b/230204.b/02042345ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: AR1254.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1254CCV5  
Client ID:  
Injection Date: 05-FEB-2023 07:23  
Report Date: 02/06/2023 16:58  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.805   | -0.002 | 246202   | 5.682  | -0.001 | 198824   | 39.8   | 40.2 | 1.1           | Tetrachloro-m-xylene |
| 13.890  | 0.001  | 166056   | 14.115 | -0.001 | 211507   | 34.5   | 39.9 | 14.4          | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 437929      | -13.0 |
| Hexabromobiphenyl  | 647433         | 450061      | -30.5 |

| Column 2           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 336911         | 365764      | 8.6   |
| Hexabromobiphenyl  | 382032         | 334267      | -12.5 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        |        | ZB35 Col                 |        |       |       |        |         |
|--------------------------|-------|--------|--------|--------|--------|--------------------------|--------|-------|-------|--------|---------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount | Peak#                    | RT     | Shift | Area  | Amount |         |
| Aroclor-1254             | 1     | 9.292  | -0.001 | 82986  | 185.9  | 1                        | 9.442  | 0.000 | 56147 | 211.6  |         |
| Aroclor-1254             | 2     | 9.370  | 0.000  | 36977  | 194.0  | 2                        | 9.962  | 0.000 | 45604 | 212.6  |         |
| Aroclor-1254             | 3     | 9.661  | 0.000  | 53354  | 186.6  | 3                        | 10.113 | 0.000 | 91635 | 195.9  |         |
| Aroclor-1254             | 4     | 9.798  | 0.001  | 108593 | 193.8  | 4                        | 10.362 | 0.000 | 98830 | 211.2  |         |
| Aroclor-1254             | 5     | 10.158 | 0.002  | 67667  | 185.7  | 5                        | 10.561 | 0.000 | 45628 | 175.1  |         |
| Total CollAve (5 peaks): |       |        |        | 189.2  |        | Total Col2Ave (5 peaks): |        |       |       | 201.3  | RPD = 6 |
| Corrected Ave (4 peaks): |       |        |        | 188.0  |        | Corrected Ave (4 peaks): |        |       |       | 198.4  | RPD = 5 |
| CalAmt %D:               |       |        |        | -24.3  |        | CalAmt %D:               |        |       |       | -19.5  |         |

Total PCB Area Col1 (5.907 - 13.789) = 1160114 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.783 - 14.016) = 920699 Col2 Total PCB = 0.2 ppm\*

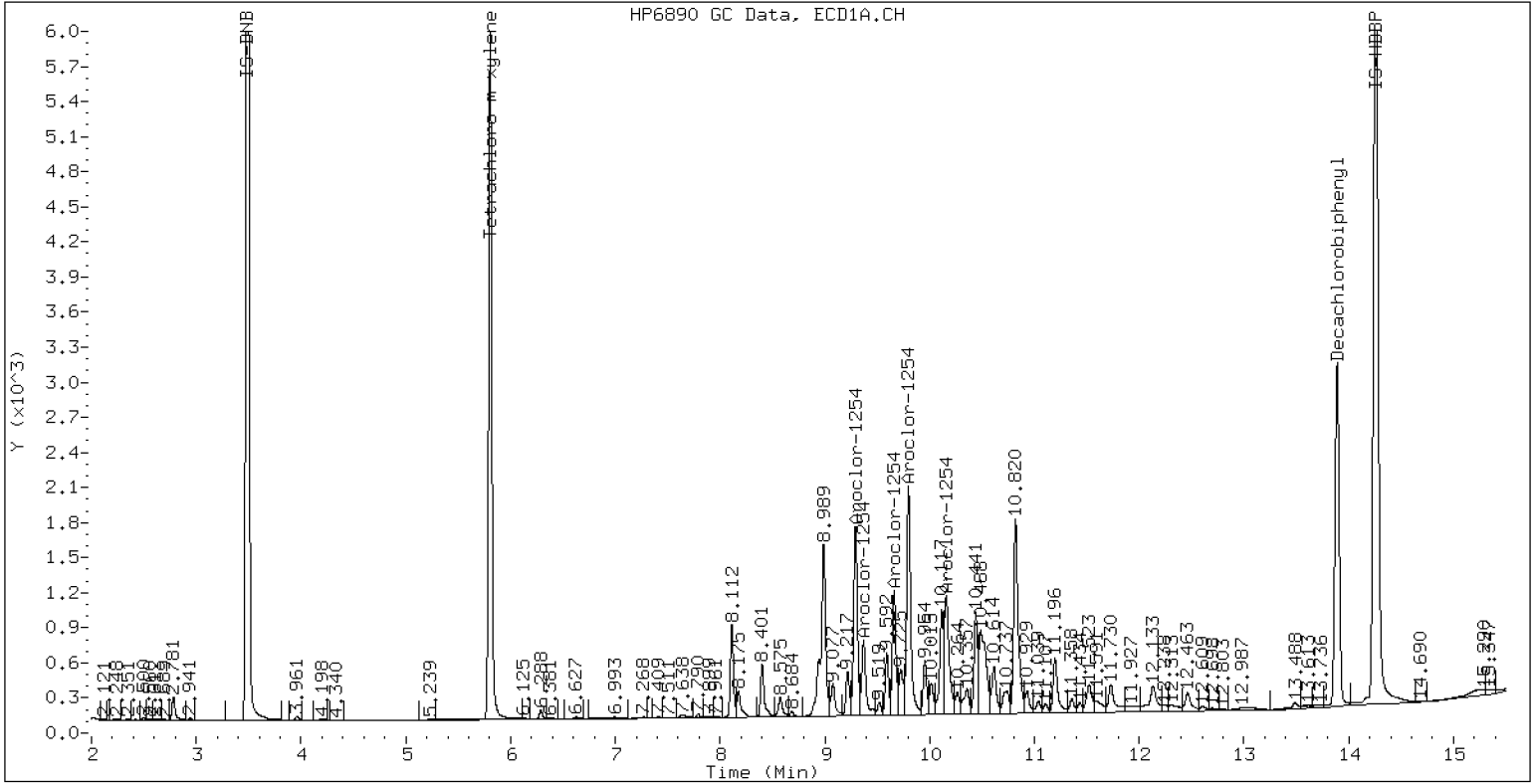
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5

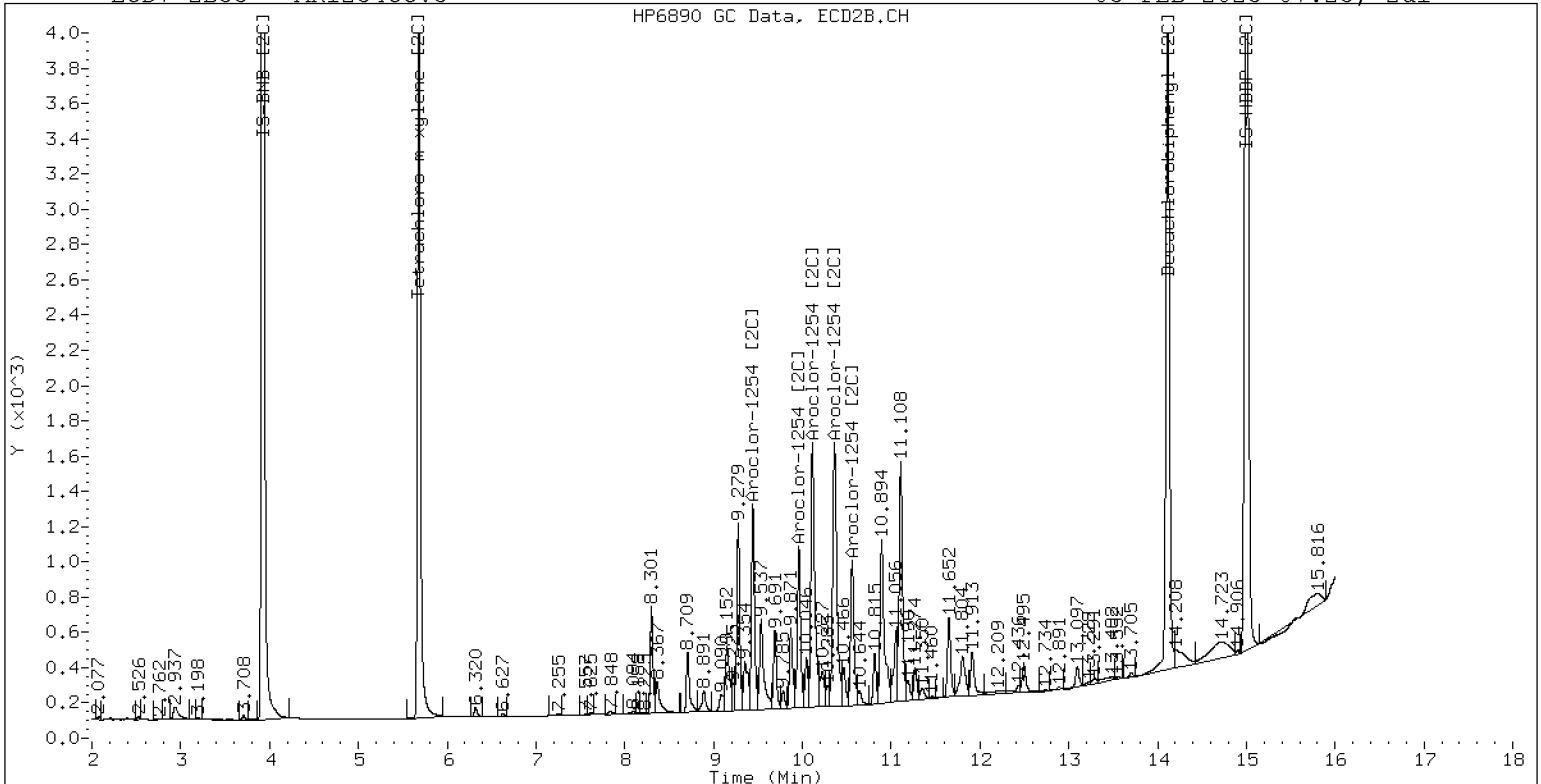
05-FEB-2023 07:23, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV5

05-FEB-2023 07:23, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK  
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ECD7

Calibration: GA00061

Lab File ID: 02042346ECD7.D

Calibration Date: 01/24/2023

Sequence: SLB0084

Injection Date: 02/05/23

Lab Sample ID: SLB0084-CCV6

Injection Time: 07:44

Sequence Name: AR1660CCV6

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1016               | A    | 250.00       | 255  | 0.0506755             | 0.0518866 |     | 1.8          | +/-20 |
| Aroclor-1016 (1)           | A    | 250.00       | 260  | 0.0297277             | 0.0309397 |     | 4.0          |       |
| Aroclor-1016 (2)           | A    | 250.00       | 263  | 0.0985017             | 0.1035368 |     | 5.2          |       |
| Aroclor-1016 (3)           | A    | 250.00       | 236  | 0.0453193             | 0.0428662 |     | -5.6         |       |
| Aroclor-1016 (4)           | A    | 250.00       | 259  | 0.0291533             | 0.0302037 |     | 3.6          |       |
| Aroclor 1016 [2C]          | A    | 250.00       | 262  | 0.0519244             | 0.0542929 |     | 4.6          | +/-20 |
| Aroclor-1016 (1) [2C]      | A    | 250.00       | 261  | 0.0433907             | 0.0453855 |     | 4.4          |       |
| Aroclor-1016 (2) [2C]      | A    | 250.00       | 260  | 0.0950862             | 0.0988135 |     | 4.0          |       |
| Aroclor-1016 (3) [2C]      | A    | 250.00       | 269  | 0.0388014             | 0.0418237 |     | 7.6          |       |
| Aroclor-1016 (4) [2C]      | A    | 250.00       | 256  | 0.0304194             | 0.0311488 |     | 2.4          |       |
| Aroclor 1260               | A    | 250.00       | 247  | 0.0605224             | 0.0598425 |     | -1.3         | +/-20 |
| Aroclor-1260 (1)           | A    | 250.00       | 257  | 0.0448870             | 0.0461506 |     | 2.8          |       |
| Aroclor-1260 (2)           | A    | 250.00       | 257  | 0.0461412             | 0.0474908 |     | 2.8          |       |
| Aroclor-1260 (3)           | A    | 250.00       | 244  | 0.1214672             | 0.1187179 |     | -2.4         |       |
| Aroclor-1260 (4)           | A    | 250.00       | 245  | 0.0627593             | 0.0615635 |     | -2.0         |       |
| Aroclor-1260 (5)           | A    | 250.00       | 231  | 0.0273573             | 0.0252895 |     | -7.6         |       |
| Aroclor 1260 [2C]          | A    | 250.00       | 253  | 0.0836545             | 0.0835354 |     | 1.0          | +/-20 |
| Aroclor-1260 (1) [2C]      | A    | 250.00       | 255  | 0.0577136             | 0.0589155 |     | 2.0          |       |
| Aroclor-1260 (2) [2C]      | A    | 250.00       | 247  | 0.1460113             | 0.1444003 |     | -1.2         |       |
| Aroclor-1260 (3) [2C]      | A    | 250.00       | 264  | 0.0363944             | 0.0385166 |     | 5.6          |       |
| Aroclor-1260 (4) [2C]      | A    | 250.00       | 244  | 0.0944986             | 0.0923093 |     | -2.4         |       |
| Decachlorobiphenyl         | A    | 40.000       | 39.4 | 0.8555994             | 0.8439552 |     | -1.5         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 43.2 | 1.1307870             | 1.2218360 |     | 8.0          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 40.7 | 1.2696430             | 1.2916710 |     | 1.8          | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 42.7 | 1.0814980             | 1.1535290 |     | 6.8          | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042346ECD7.D  
Data file 2: /230204.b/230204.b/02042346ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660CCV6  
Client ID:  
Injection Date: 05-FEB-2023 07:44  
Report Date: 02/06/2023 16:58  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.806   | -0.001 | 266706   | 5.683  | -0.000 | 208877   | 43.2   | 42.7 | 1.3           | Tetrachloro-m-xylene |
| 13.889  | -0.000 | 224579   | 14.115 | -0.001 | 252503   | 39.5   | 40.7 | 3.1           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 436566      | -13.3 |
| Hexabromobiphenyl  | 647433         | 532206      | -17.8 |
| Column 2           |                |             |       |
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 336911         | 362153      | 7.5   |
| Hexabromobiphenyl  | 382032         | 390971      | 2.3   |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |        |               |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|---------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area   | Amount        |
| Aroclor-1016             | 1     | 7.268  | -0.000 | 42210  | 260.2    | 1                        | 7.251  | -0.000 | 51364  | 261.5         |
| Aroclor-1016             | 2     | 7.647  | -0.001 | 141252 | 262.8    | 2                        | 7.847  | 0.000  | 111830 | 259.8         |
| Aroclor-1016             | 3     | 7.785  | -0.000 | 58481  | 236.5    | 3                        | 8.047  | 0.000  | 47333  | 269.5         |
| Aroclor-1016             | 4     | 8.401  | 0.001  | 41206  | 259.0    | 4                        | 8.302  | -0.000 | 35252  | 256.0         |
| Total CollAve (4 peaks): |       |        |        | 254.6  |          | Total Col2Ave (4 peaks): |        |        |        | 261.7 RPD = 3 |
| Corrected Ave (3 peaks): |       |        |        | 251.9  |          | Corrected Ave (3 peaks): |        |        |        | 259.1 RPD = 3 |
| CalAmt %D:               |       |        |        | 1.8    |          | CalAmt %D:               |        |        |        | 4.7           |
| Aroclor-1260             | 1     | 11.040 | 0.001  | 76755  | 257.0    | 1                        | 11.648 | 0.000  | 71982  | 255.2         |
| Aroclor-1260             | 2     | 11.357 | 0.001  | 78984  | 257.3    | 2                        | 11.911 | 0.001  | 176426 | 247.2         |
| Aroclor-1260             | 3     | 11.729 | 0.001  | 197445 | 244.3    | 3                        | 12.430 | -0.001 | 47059  | 264.6         |
| Aroclor-1260             | 4     | 12.131 | 0.000  | 102389 | 245.2    | 4                        | 12.495 | 0.001  | 112782 | 244.2         |
| Aroclor-1260             | 5     | 12.240 | 0.001  | 42060  | 231.1    | NS                       | ---    |        |        | ----          |
| Total CollAve (5 peaks): |       |        |        | 247.0  |          | Total Col2Ave (4 peaks): |        |        |        | 252.8 RPD = 2 |
| Corrected Ave (4 peaks): |       |        |        | 244.4  |          | Corrected Ave (3 peaks): |        |        |        | 248.9 RPD = 2 |
| CalAmt %D:               |       |        |        | -1.2   |          | CalAmt %D:               |        |        |        | 1.1           |

Total PCB Area Col1 (5.907 - 13.789) = 2278026 Col1 Total PCB = 0.4 ppm\*

Total PCB Area Col2 (5.783 - 14.016) = 1810016 Col2 Total PCB = 0.5 ppm\*

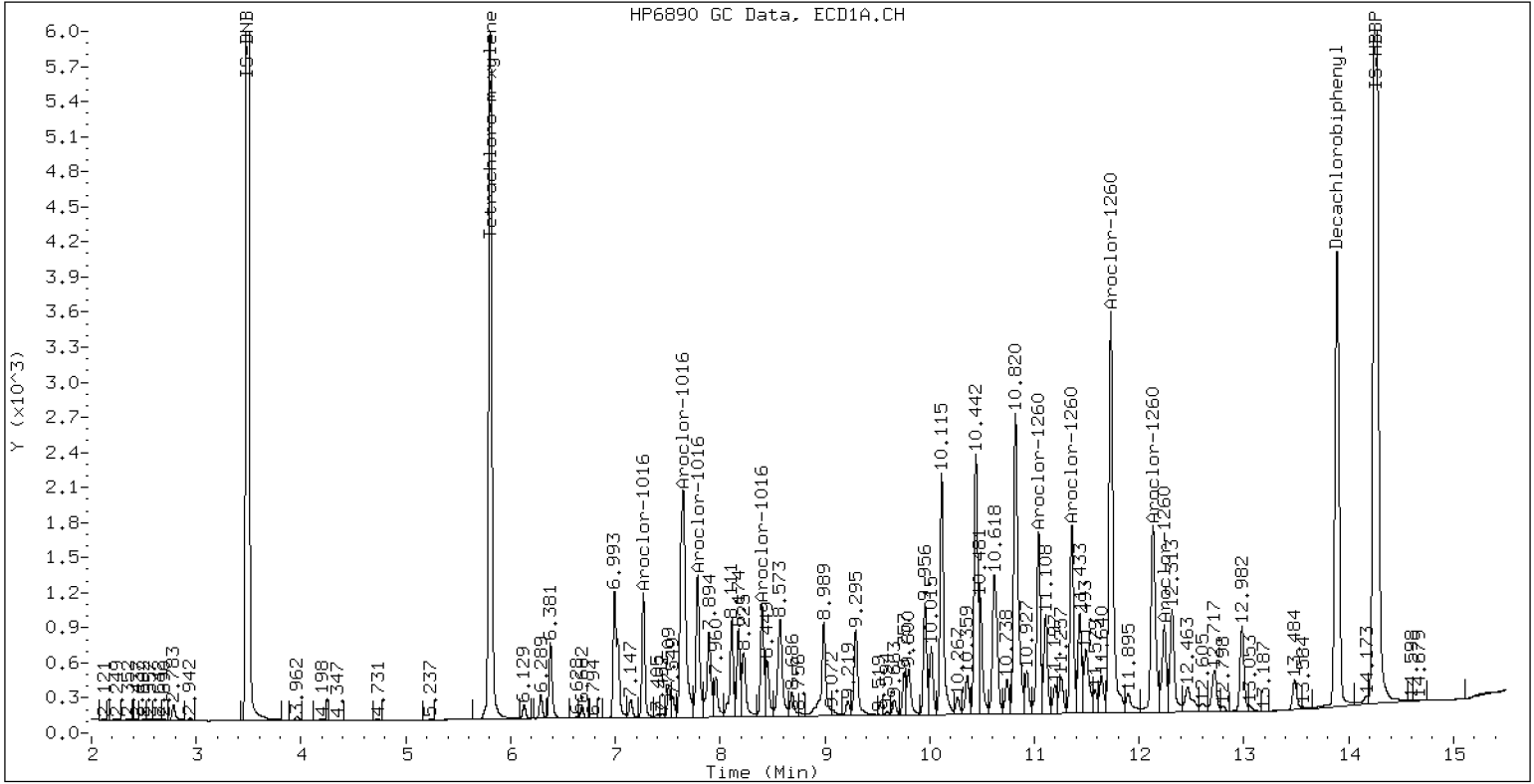
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6

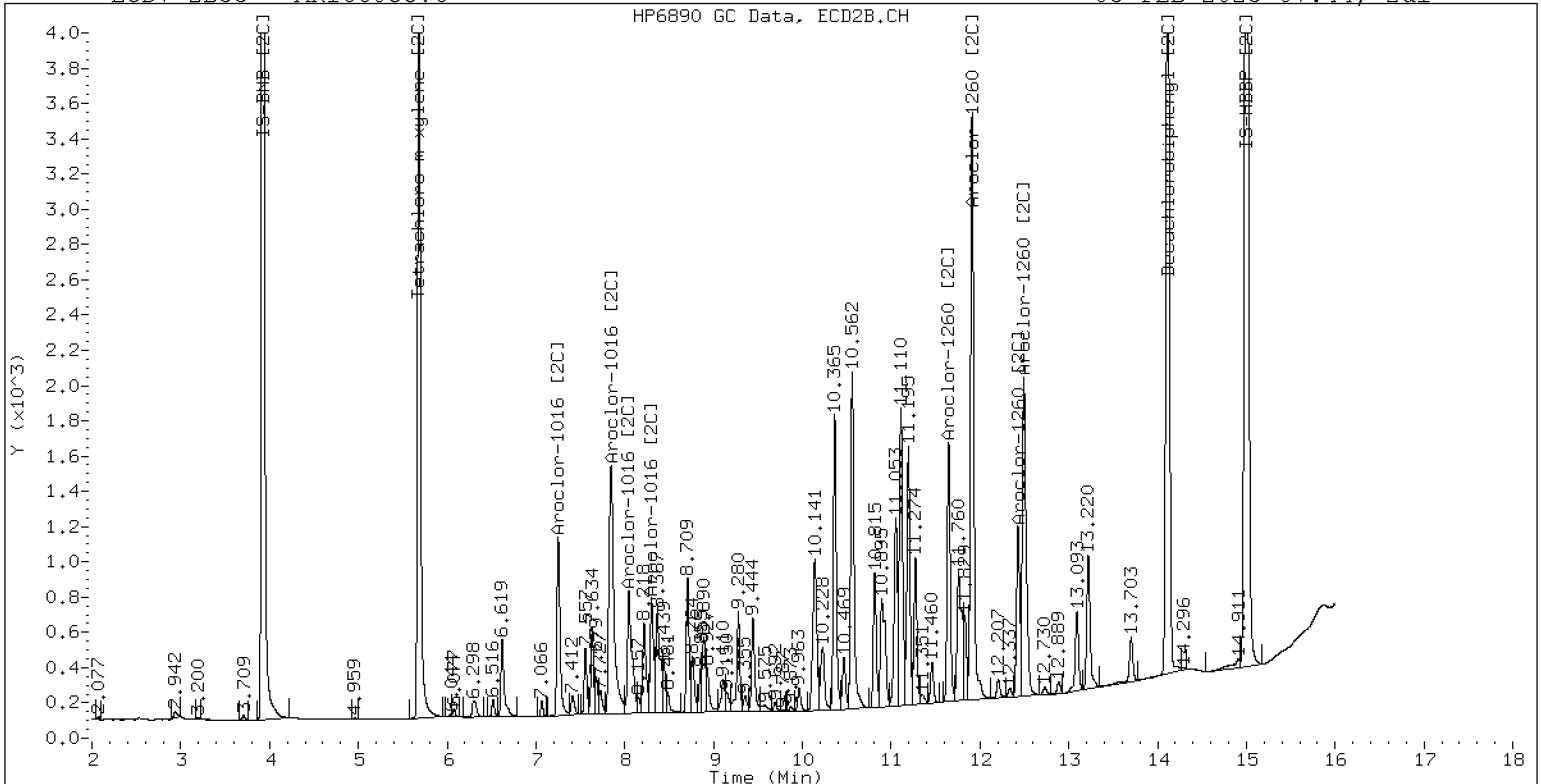
05-FEB-2023 07:44, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV6

05-FEB-2023 07:44, 2ul



ZB-35 Manual Integration: NO



**CONTINUING CALIBRATION CHECK**  
**EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GA00061</u>         |
| Lab File ID:   | <u>02042358ECD7.D</u>            | Calibration Date: | <u>01/24/2023</u>      |
| Sequence:      | <u>SLB0084</u>                   | Injection Date:   | <u>02/05/23</u>        |
| Lab Sample ID: | <u>SLB0084-CCV7</u>              | Injection Time:   | <u>11:57</u>           |
| Sequence Name: | <u>AR1248CCV7</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|---------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| Aroclor 1248               | A    | 250.00       | 199  | 0.0592639             | 0.0450994 |     | -20.6        | +/-20 * |
| Aroclor-1248 (1)           | A    | 250.00       | 240  |                       | 0.0384675 |     |              |         |
| Aroclor-1248 (2)           | A    | 250.00       | 234  |                       | 0.0478993 |     |              |         |
| Aroclor-1248 (3)           | A    | 250.00       | 162  |                       | 0.0634619 |     |              |         |
| Aroclor-1248 (4)           | A    | 250.00       | 158  |                       | 0.0305689 |     |              |         |
| Aroclor 1248 [2C]          | A    | 250.00       | 236  | 0.0453673             | 0.0426378 |     | -5.5         | +/-20   |
| Aroclor-1248 (1) [2C]      | A    | 250.00       | 250  |                       | 0.0361061 |     |              |         |
| Aroclor-1248 (2) [2C]      | A    | 250.00       | 228  |                       | 0.0355424 |     |              |         |
| Aroclor-1248 (3) [2C]      | A    | 250.00       | 241  |                       | 0.0458339 |     |              |         |
| Aroclor-1248 (4) [2C]      | A    | 250.00       | 226  |                       | 0.0530689 |     |              |         |
| Decachlorobiphenyl         | A    | 40.000       | 36.3 | 0.8555994             | 0.7766596 |     | -9.3         | +/-20   |
| Tetrachlorometaxylene      | A    | 40.000       | 40.7 | 1.1307870             | 1.1498010 |     | 1.8          | +/-20   |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 39.2 | 1.2696430             | 1.2451310 |     | -2.0         | +/-20   |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 41.8 | 1.0814980             | 1.1292330 |     | 4.5          | +/-20   |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042358ECD7.D  
Data file 2: /230204.b/230204.b/02042358ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: AR1248.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1248CCV7  
Client ID:  
Injection Date: 05-FEB-2023 11:57  
Report Date: 02/06/2023 16:58  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |                | ZB35 Col |                | ZB5    | ZB35   | RPD  | Compound/Flag |     |                      |
|---------|----------------|----------|----------------|--------|--------|------|---------------|-----|----------------------|
| RT      | Shift Response | RT       | Shift Response | on col | on col |      |               |     |                      |
| 5.806   | -0.002         | 243813   | 5.682          | -0.001 | 204176 | 40.7 | 41.8          | 2.7 | Tetrachloro-m-xylene |
| 13.889  | 0.000          | 160680   | 14.115         | -0.001 | 200824 | 36.3 | 39.2          | 7.7 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 424096      | -15.7 |
| Hexabromobiphenyl  | 647433         | 413772      | -36.1 |

| Column 2           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 336911         | 361619      | 7.3   |
| Hexabromobiphenyl  | 382032         | 322575      | -15.6 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |        |       |                          | ZB35 Col |       |       |       |          |  |
|--------------------------|-------|-------|--------|-------|--------------------------|----------|-------|-------|-------|----------|--|
| Aroclor                  | Peak# | RT    | Shift  | Area  | Amount                   | Peak#    | RT    | Shift | Area  | Amount   |  |
| Aroclor-1248             | 1     | 8.400 | -0.000 | 50981 | 240.3                    | 1        | 8.302 | 0.000 | 40802 | 249.6    |  |
| Aroclor-1248             | 2     | 8.573 | 0.000  | 63481 | 234.6                    | 2        | 8.708 | 0.000 | 40165 | 228.3    |  |
| Aroclor-1248             | 3     | 8.991 | -0.002 | 84106 | 162.5                    | 3        | 9.150 | 0.000 | 51795 | 240.9    |  |
| Aroclor-1248             | 4     | 9.290 | -0.001 | 40513 | 158.1                    | 4        | 9.572 | 0.000 | 59971 | 225.6    |  |
| Total Col1Ave (4 peaks): |       |       |        | 198.9 | Total Col2Ave (4 peaks): |          |       |       | 236.1 | RPD = 17 |  |
| Corrected Ave (3 peaks): |       |       |        | 185.1 | Corrected Ave (3 peaks): |          |       |       | 231.6 | RPD = 22 |  |
| CalAmt %D:               |       |       |        | -20.5 | CalAmt %D:               |          |       |       | -5.6  |          |  |

Total PCB Area Col1 (5.907 - 13.789) = 930626 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.783 - 14.016) = 772997 Col2 Total PCB = 0.2 ppm\*

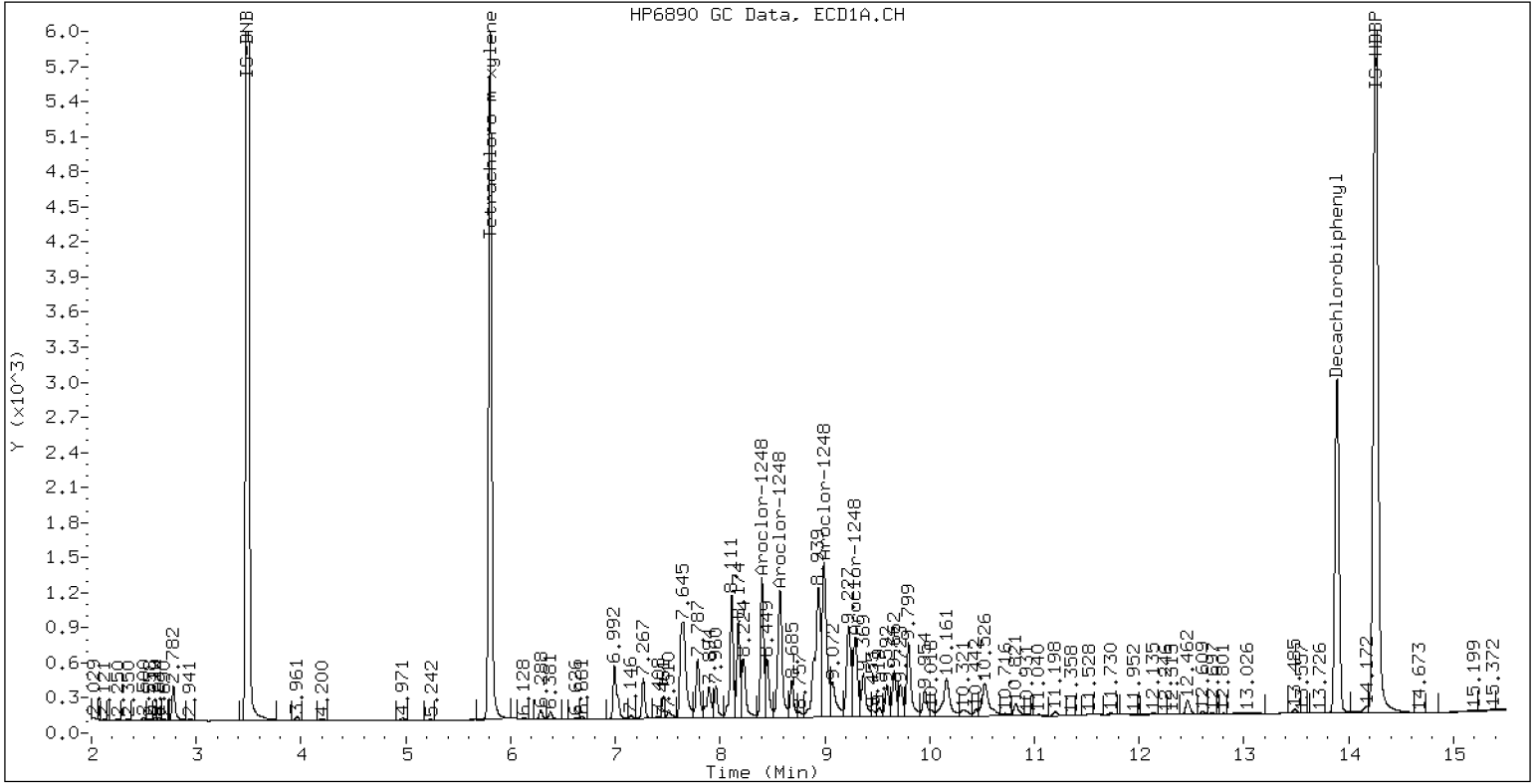
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV7

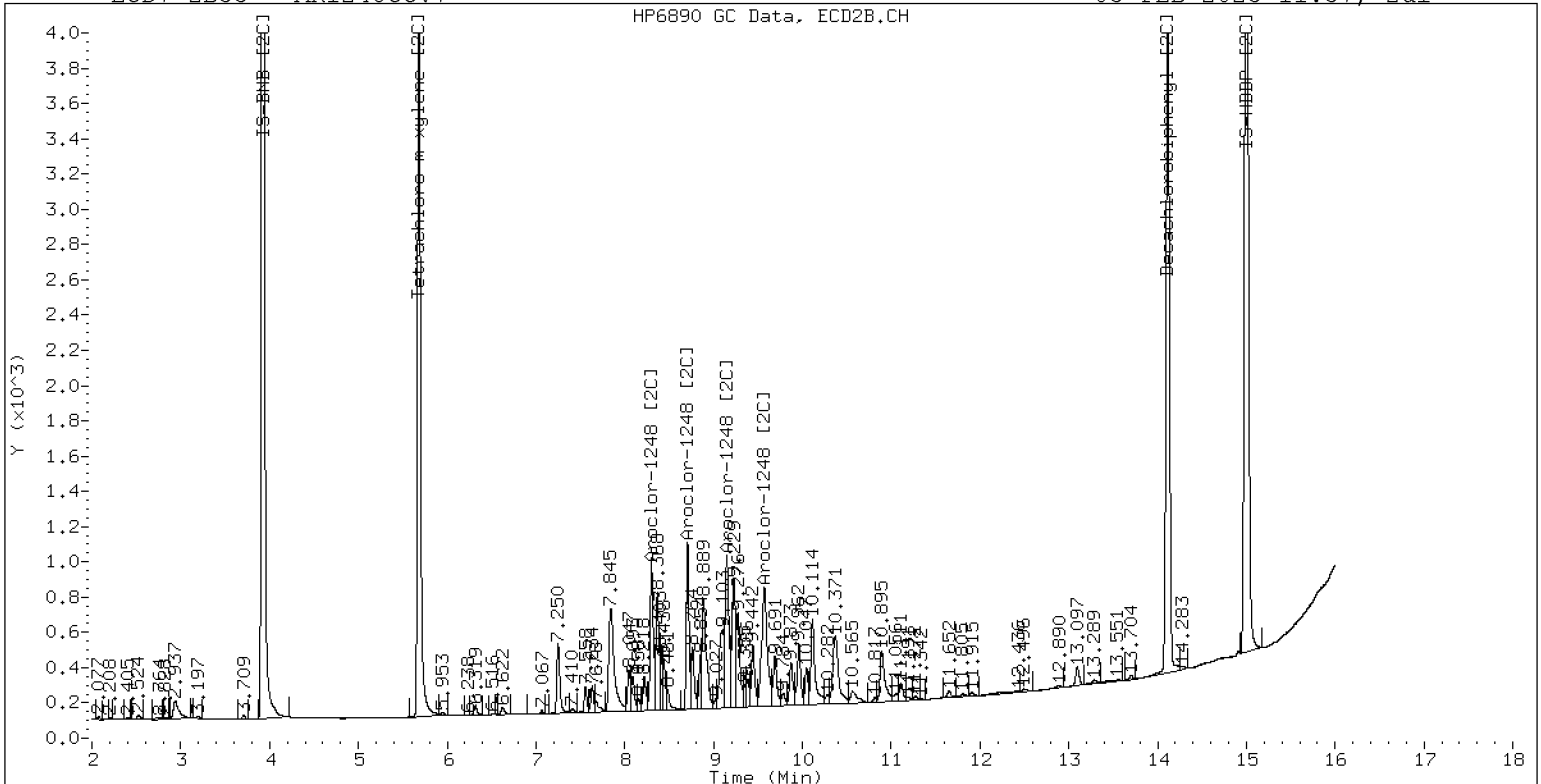
05-FEB-2023 11:57, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV7

05-FEB-2023 11:57, 2ul



ZB-35 Manual Integration: NO



## CONTINUING CALIBRATION CHECK EPA 8082A

|  |                                     |
|--|-------------------------------------|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0179</u>                 |
| Client: <u>Anchor QEA, LLC</u>               | Project: <u>AOC5 MR Phase 1</u>     |
| Instrument ID: <u>ECD7</u>                   | Calibration: <u>GA00061</u>         |
| Lab File ID: <u>02042359ECD7.D</u>           | Calibration Date: <u>01/24/2023</u> |
| Sequence: <u>SLB0084</u>                     | Injection Date: <u>02/05/23</u>     |
| Lab Sample ID: <u>SLB0084-CCV8</u>           | Injection Time: <u>12:18</u>        |
| Sequence Name: <u>AR1660CCV8</u>             |                                     |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1016               | A    | 250.00       | 258  | 0.0506755             | 0.0524716 |     | 3.1          | +/-20 |
| Aroclor-1016 (1)           | A    | 250.00       | 263  | 0.0297277             | 0.0312768 |     | 5.2          |       |
| Aroclor-1016 (2)           | A    | 250.00       | 265  | 0.0985017             | 0.1043906 |     | 6.0          |       |
| Aroclor-1016 (3)           | A    | 250.00       | 239  | 0.0453193             | 0.0434034 |     | -4.4         |       |
| Aroclor-1016 (4)           | A    | 250.00       | 264  | 0.0291533             | 0.0308155 |     | 5.6          |       |
| Aroclor 1016 [2C]          | A    | 250.00       | 262  | 0.0519244             | 0.0544554 |     | 4.9          | +/-20 |
| Aroclor-1016 (1) [2C]      | A    | 250.00       | 264  | 0.0433907             | 0.0457463 |     | 5.6          |       |
| Aroclor-1016 (2) [2C]      | A    | 250.00       | 260  | 0.0950862             | 0.0990929 |     | 4.0          |       |
| Aroclor-1016 (3) [2C]      | A    | 250.00       | 269  | 0.0388014             | 0.0418109 |     | 7.6          |       |
| Aroclor-1016 (4) [2C]      | A    | 250.00       | 256  | 0.0304194             | 0.0311716 |     | 2.4          |       |
| Aroclor 1260               | A    | 250.00       | 244  | 0.0605224             | 0.0592808 |     | -2.3         | +/-20 |
| Aroclor-1260 (1)           | A    | 250.00       | 264  | 0.0448870             | 0.0473624 |     | 5.6          |       |
| Aroclor-1260 (2)           | A    | 250.00       | 258  | 0.0461412             | 0.0475371 |     | 3.2          |       |
| Aroclor-1260 (3)           | A    | 250.00       | 243  | 0.1214672             | 0.1181483 |     | -2.8         |       |
| Aroclor-1260 (4)           | A    | 250.00       | 236  | 0.0627593             | 0.0593060 |     | -5.6         |       |
| Aroclor-1260 (5)           | A    | 250.00       | 220  | 0.0273573             | 0.0240500 |     | -12.0        |       |
| Aroclor 1260 [2C]          | A    | 250.00       | 261  | 0.0836545             | 0.0858317 |     | 4.4          | +/-20 |
| Aroclor-1260 (1) [2C]      | A    | 250.00       | 267  | 0.0577136             | 0.0615921 |     | 6.8          |       |
| Aroclor-1260 (2) [2C]      | A    | 250.00       | 249  | 0.1460113             | 0.1456362 |     | -0.4         |       |
| Aroclor-1260 (3) [2C]      | A    | 250.00       | 274  | 0.0363944             | 0.0398939 |     | 9.6          |       |
| Aroclor-1260 (4) [2C]      | A    | 250.00       | 254  | 0.0944986             | 0.0962045 |     | 1.6          |       |
| Decachlorobiphenyl         | A    | 40.000       | 39.6 | 0.8555994             | 0.8465271 |     | -1.0         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 43.6 | 1.1307870             | 1.2336560 |     | 9.0          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 41.1 | 1.2696430             | 1.3057580 |     | 2.8          | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 43.1 | 1.0814980             | 1.1658650 |     | 7.8          | +/-20 |

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042359ECD7.D  
Data file 2: /230204.b/230204.b/02042359ECD7.D  
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660CCV8  
Client ID:  
Injection Date: 05-FEB-2023 12:18  
Report Date: 02/06/2023 16:58  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.806  | -0.002        | 259700   | 5.683  | 0.000          | 208940   | 43.6       | 43.1        | 1.2 | Tetrachloro-m-xylene |
| 13.888 | -0.000        | 206236   | 14.116 | 0.000          | 240029   | 39.6       | 41.1        | 3.9 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |       |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 421025      | -16.4 |
| Hexabromobiphenyl  | 647433         | 487252      | -24.7 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 358429      | 6.4  |
| Hexabromobiphenyl  | 382032         | 367647      | -3.8 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |       |        |        |         |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|-------|--------|--------|---------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift | Area   | Amount |         |
| Aroclor-1016             | 1     | 7.267  | -0.001 | 41151  | 263.0    | 1                        | 7.251  | 0.000 | 51240  | 263.6  |         |
| Aroclor-1016             | 2     | 7.648  | -0.000 | 137347 | 264.9    | 2                        | 7.847  | 0.000 | 110993 | 260.5  |         |
| Aroclor-1016             | 3     | 7.785  | -0.001 | 57106  | 239.4    | 3                        | 8.047  | 0.000 | 46832  | 269.4  |         |
| Aroclor-1016             | 4     | 8.400  | -0.000 | 40544  | 264.3    | 4                        | 8.302  | 0.000 | 34915  | 256.2  |         |
| Total CollAve (4 peaks): |       |        |        | 257.9  |          | Total Col2Ave (4 peaks): |        |       |        | 262.4  | RPD = 2 |
| Corrected Ave (3 peaks): |       |        |        | 255.6  |          | Corrected Ave (3 peaks): |        |       |        | 260.1  | RPD = 2 |
| CalAmt %D:               |       |        |        | 3.2    |          | CalAmt %D:               |        |       |        | 5.0    |         |
| Aroclor-1260             | 1     | 11.038 | -0.001 | 72117  | 263.8    | 1                        | 11.648 | 0.000 | 70763  | 266.8  |         |
| Aroclor-1260             | 2     | 11.355 | -0.001 | 72383  | 257.6    | 2                        | 11.911 | 0.000 | 167321 | 249.4  |         |
| Aroclor-1260             | 3     | 11.728 | -0.001 | 179900 | 243.2    | 3                        | 12.430 | 0.000 | 45834  | 274.0  |         |
| Aroclor-1260             | 4     | 12.131 | -0.001 | 90303  | 236.2    | 4                        | 12.495 | 0.000 | 110529 | 254.5  |         |
| Aroclor-1260             | 5     | 12.239 | -0.000 | 36620  | 219.8    | NS                       | ---    |       |        | ----   |         |
| Total CollAve (5 peaks): |       |        |        | 244.1  |          | Total Col2Ave (4 peaks): |        |       |        | 261.2  | RPD = 7 |
| Corrected Ave (4 peaks): |       |        |        | 239.2  |          | Corrected Ave (3 peaks): |        |       |        | 256.9  | RPD = 7 |
| CalAmt %D:               |       |        |        | -2.4   |          | CalAmt %D:               |        |       |        | 4.5    |         |

Total PCB Area Coll (5.907 - 13.789) = 2156521 Coll Total PCB = 0.4 ppm\*

Total PCB Area Col2 (5.783 - 14.016) = 1787795 Col2 Total PCB = 0.5 ppm\*

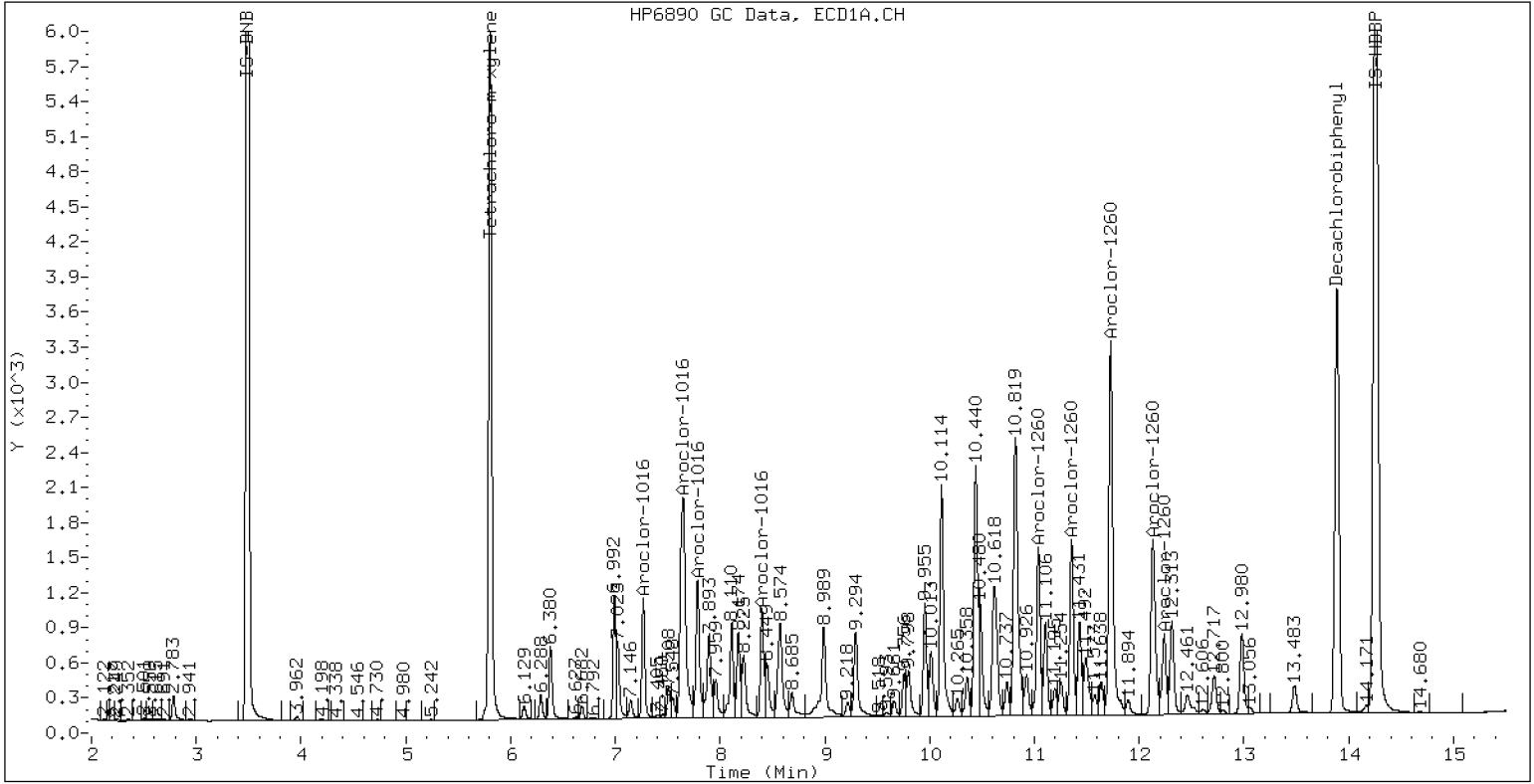
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV8

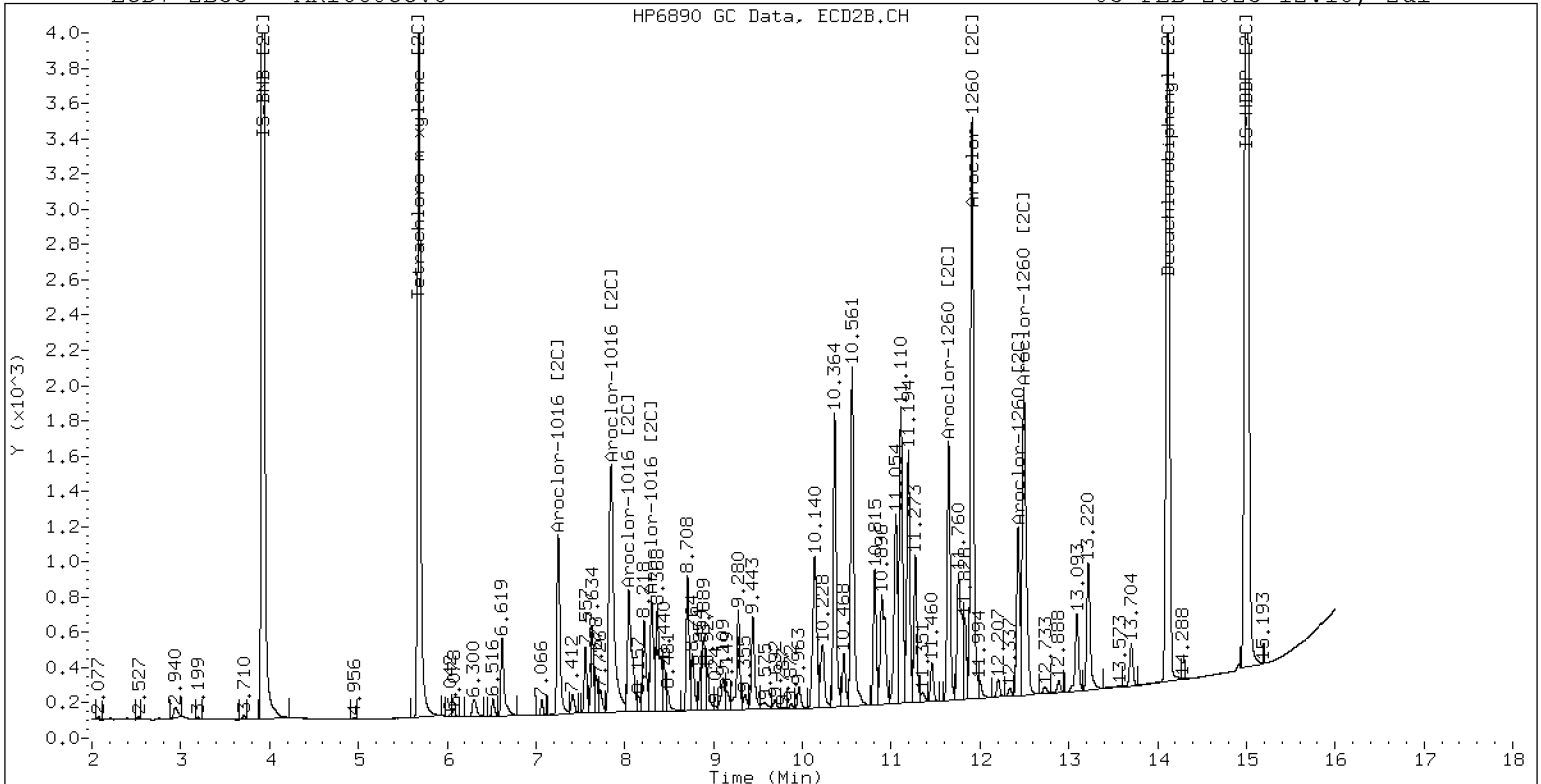
05-FEB-2023 12:18, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV8

05-FEB-2023 12:18, 2ul



ZB-35 Manual Integration: NO



**CONTINUING CALIBRATION CHECK**  
**EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GA00061</u>         |
| Lab File ID:   | <u>02062313ECD7.D</u>            | Calibration Date: | <u>01/24/2023</u>      |
| Sequence:      | <u>SLB0086</u>                   | Injection Date:   | <u>02/06/23</u>        |
| Lab Sample ID: | <u>SLB0086-CCV1</u>              | Injection Time:   | <u>13:46</u>           |
| Sequence Name: | <u>AR1248CCV1</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1248               | A    | 250.00       | 211  | 0.0592639             | 0.0477784 |     | -15.8        | +/-20 |
| Aroclor-1248 (1)           | A    | 250.00       | 251  |                       | 0.0401248 |     |              |       |
| Aroclor-1248 (2)           | A    | 250.00       | 246  |                       | 0.0501395 |     |              |       |
| Aroclor-1248 (3)           | A    | 250.00       | 174  |                       | 0.0678290 |     |              |       |
| Aroclor-1248 (4)           | A    | 250.00       | 171  |                       | 0.0330205 |     |              |       |
| Aroclor 1248 [2C]          | A    | 250.00       | 249  | 0.0453673             | 0.0450094 |     | -0.5         | +/-20 |
| Aroclor-1248 (1) [2C]      | A    | 250.00       | 260  |                       | 0.0376778 |     |              |       |
| Aroclor-1248 (2) [2C]      | A    | 250.00       | 240  |                       | 0.0373194 |     |              |       |
| Aroclor-1248 (3) [2C]      | A    | 250.00       | 255  |                       | 0.0484480 |     |              |       |
| Aroclor-1248 (4) [2C]      | A    | 250.00       | 240  |                       | 0.0565926 |     |              |       |
| Decachlorobiphenyl         | A    | 40.000       | 36.6 | 0.8555994             | 0.7823365 |     | -8.5         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 40.8 | 1.1307870             | 1.1529250 |     | 2.0          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 38.4 | 1.2696430             | 1.2182150 |     | -4.0         | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 40.9 | 1.0814980             | 1.1054020 |     | 2.3          | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062313ECD7.D  
Data file 2: /230206.b/230206.b/02062313ECD7.D  
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m  
Compound Sublist: AR1248.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1248CCV1  
Client ID:  
Injection Date: 06-FEB-2023 13:46  
Report Date: 02/07/2023 10:35  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.808  | -0.001        | 234079   | 5.685  | 0.001          | 207274   | 40.8       | 40.9        | 0.2 | Tetrachloro-m-xylene |
| 13.889 | -0.002        | 255188   | 14.118 | 0.001          | 297795   | 36.6       | 38.4        | 4.8 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 406061      | -19.3 |
| Hexabromobiphenyl  | 647433         | 652374      | 0.8   |
| Column 2           |                |             |       |
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 336911         | 375020      | 11.3  |
| Hexabromobiphenyl  | 382032         | 488904      | 28.0  |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |        |       |                          | ZB35 Col |       |        |       |          |  |
|--------------------------|-------|-------|--------|-------|--------------------------|----------|-------|--------|-------|----------|--|
| Aroclor                  | Peak# | RT    | Shift  | Area  | Amount                   | Peak#    | RT    | Shift  | Area  | Amount   |  |
| Aroclor-1248             | 1     | 8.402 | -0.004 | 50916 | 250.7                    | 1        | 8.304 | 0.002  | 44156 | 260.5    |  |
| Aroclor-1248             | 2     | 8.574 | -0.006 | 63624 | 245.5                    | 2        | 8.710 | 0.000  | 43736 | 239.7    |  |
| Aroclor-1248             | 3     | 8.993 | -0.006 | 86071 | 173.7                    | 3        | 9.152 | -0.000 | 56778 | 254.7    |  |
| Aroclor-1248             | 4     | 9.293 | -0.001 | 41901 | 170.8                    | 4        | 9.576 | 0.000  | 66323 | 240.5    |  |
| Total CollAve (4 peaks): |       |       |        | 210.2 | Total Col2Ave (4 peaks): |          |       |        | 248.8 | RPD = 17 |  |
| Corrected Ave (3 peaks): |       |       |        | 196.7 | Corrected Ave (3 peaks): |          |       |        | 245.0 | RPD = 22 |  |
| CalAmt %D:               |       |       |        | -15.9 | CalAmt %D:               |          |       |        | -0.5  |          |  |

Total PCB Area Col1 (5.909 - 13.792) = 957915      Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.784 - 14.017) = 860378      Col2 Total PCB = 0.2 ppm\*

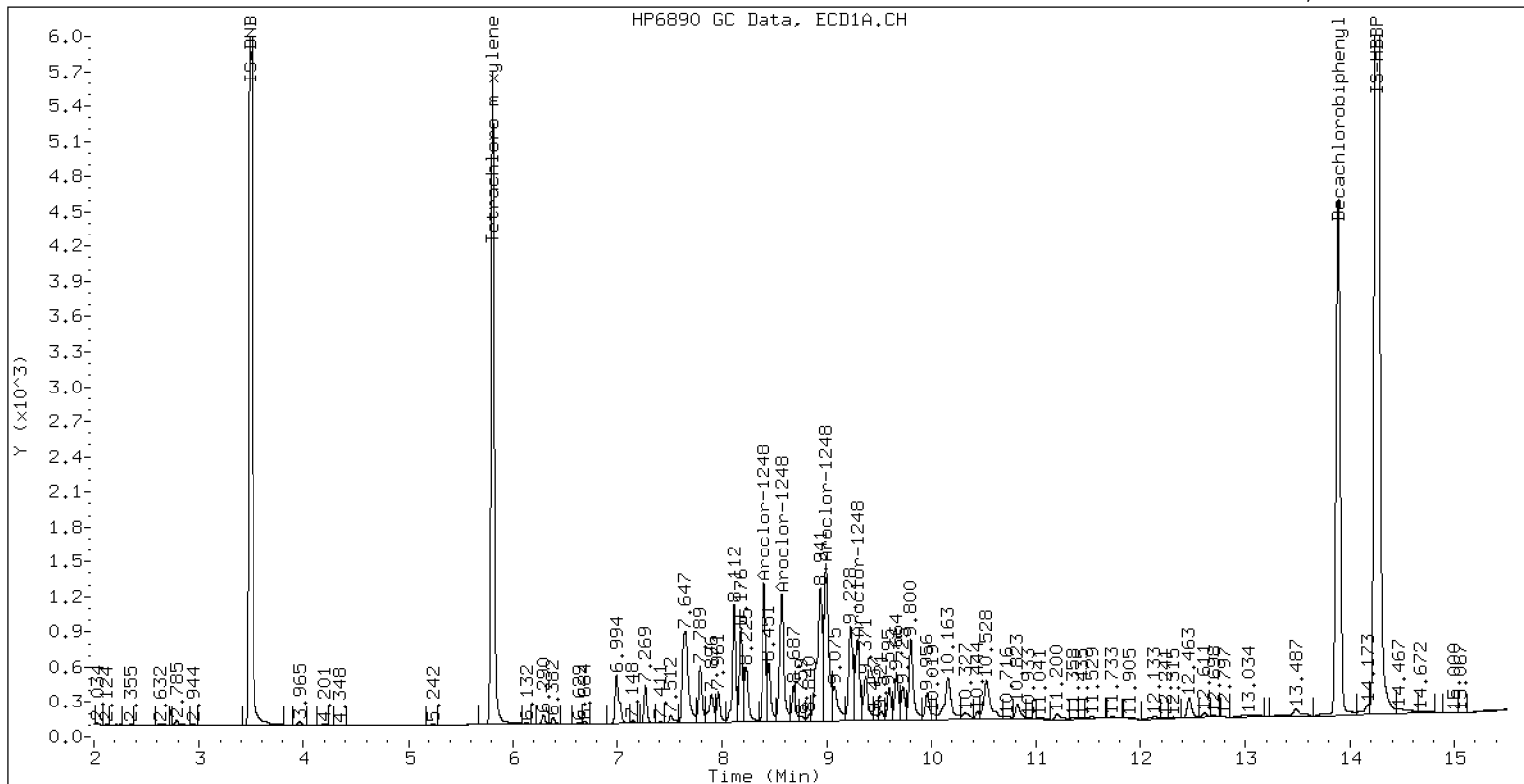
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1

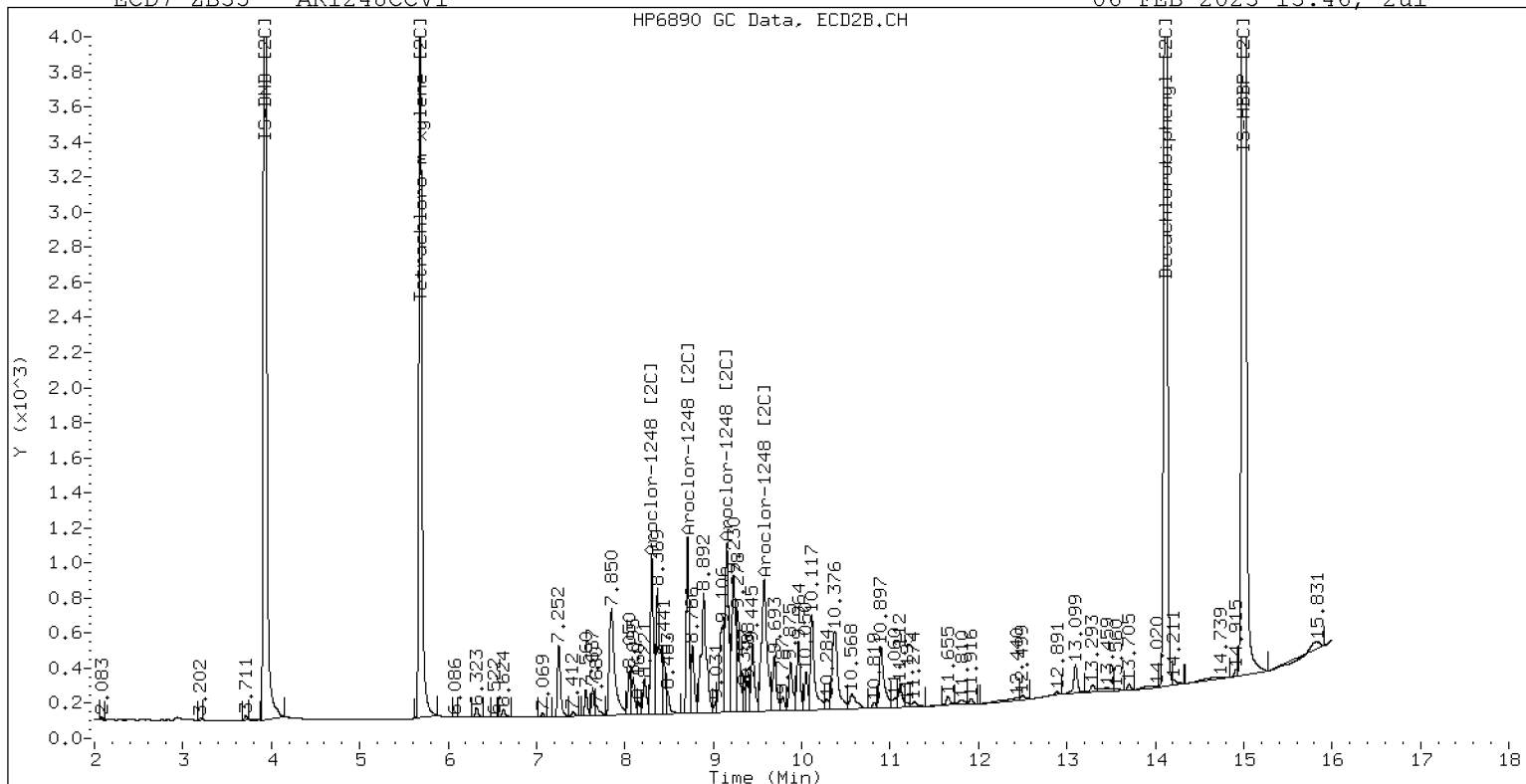
06-FEB-2023 13:46, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV1

06-FEB-2023 13:46, 2ul



ZB-35 Manual Integration: NO



**CONTINUING CALIBRATION CHECK**  
**EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GA00061</u>         |
| Lab File ID:   | <u>02062314ECD7.D</u>            | Calibration Date: | <u>01/24/2023</u>      |
| Sequence:      | <u>SLB0086</u>                   | Injection Date:   | <u>02/06/23</u>        |
| Lab Sample ID: | <u>SLB0086-CCV2</u>              | Injection Time:   | <u>14:07</u>           |
| Sequence Name: | <u>AR1660CCV2</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1016               | A    | 250.00       | 253  | 0.0506755             | 0.0514286 |     | 1.2          | +/-20 |
| Aroclor-1016 (1)           | A    | 250.00       | 258  | 0.0297277             | 0.0306728 |     | 3.2          |       |
| Aroclor-1016 (2)           | A    | 250.00       | 259  | 0.0985017             | 0.1021297 |     | 3.6          |       |
| Aroclor-1016 (3)           | A    | 250.00       | 235  | 0.0453193             | 0.0425564 |     | -6.0         |       |
| Aroclor-1016 (4)           | A    | 250.00       | 260  | 0.0291533             | 0.0303555 |     | 4.0          |       |
| Aroclor 1016 [2C]          | A    | 250.00       | 261  | 0.0519244             | 0.0539263 |     | 4.2          | +/-20 |
| Aroclor-1016 (1) [2C]      | A    | 250.00       | 260  | 0.0433907             | 0.0452020 |     | 4.0          |       |
| Aroclor-1016 (2) [2C]      | A    | 250.00       | 257  | 0.0950862             | 0.0976358 |     | 2.8          |       |
| Aroclor-1016 (3) [2C]      | A    | 250.00       | 269  | 0.0388014             | 0.0417566 |     | 7.6          |       |
| Aroclor-1016 (4) [2C]      | A    | 250.00       | 256  | 0.0304194             | 0.0311108 |     | 2.4          |       |
| Aroclor 1260               | A    | 250.00       | 201  | 0.0605224             | 0.0489076 |     | -19.6        | +/-20 |
| Aroclor-1260 (1)           | A    | 250.00       | 207  | 0.0448870             | 0.0372116 |     | -17.2        |       |
| Aroclor-1260 (2)           | A    | 250.00       | 208  | 0.0461412             | 0.0384966 |     | -16.8        |       |
| Aroclor-1260 (3)           | A    | 250.00       | 201  | 0.1214672             | 0.0977981 |     | -19.6        |       |
| Aroclor-1260 (4)           | A    | 250.00       | 201  | 0.0627593             | 0.0504047 |     | -19.6        |       |
| Aroclor-1260 (5)           | A    | 250.00       | 188  | 0.0273573             | 0.0206271 |     | -24.8        |       |
| Aroclor 1260 [2C]          | A    | 250.00       | 230  | 0.0836545             | 0.0752591 |     | -8.2         | +/-20 |
| Aroclor-1260 (1) [2C]      | A    | 250.00       | 228  | 0.0577136             | 0.0526667 |     | -8.8         |       |
| Aroclor-1260 (2) [2C]      | A    | 250.00       | 218  | 0.1460113             | 0.1272518 |     | -12.8        |       |
| Aroclor-1260 (3) [2C]      | A    | 250.00       | 247  | 0.0363944             | 0.0359926 |     | -1.2         |       |
| Aroclor-1260 (4) [2C]      | A    | 250.00       | 225  | 0.0944986             | 0.0851253 |     | -10.0        |       |
| Decachlorobiphenyl         | A    | 40.000       | 38.2 | 0.8555994             | 0.8176516 |     | -4.5         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 42.8 | 1.1307870             | 1.2093000 |     | 7.0          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 41.8 | 1.2696430             | 1.3260490 |     | 4.5          | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 42.8 | 1.0814980             | 1.1563590 |     | 7.0          | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062314ECD7.D  
Data file 2: /230206.b/230206.b/02062314ECD7.D  
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660CCV2  
Client ID:  
Injection Date: 06-FEB-2023 14:07  
Report Date: 02/07/2023 10:35  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.808  | -0.001        | 250010   | 5.685  | 0.001          | 218667   | 42.8       | 42.8        | 0.0 | Tetrachloro-m-xylene |
| 13.890 | -0.002        | 281905   | 14.118 | 0.001          | 337770   | 38.2       | 41.8        | 8.9 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 413479      | -17.8 |
| Hexabromobiphenyl  | 647433         | 689548      | 6.5   |
| Column 2           |                |             |       |
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 336911         | 378199      | 12.3  |
| Hexabromobiphenyl  | 382032         | 509438      | 33.3  |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                  |       |       |        |        | ZB35 Col |                          |       |        |        |        |         |
|--------------------------|-------|-------|--------|--------|----------|--------------------------|-------|--------|--------|--------|---------|
| Aroclor                  | Peak# | RT    | Shift  | Area   | Amount   | Peak#                    | RT    | Shift  | Area   | Amount |         |
| Aroclor-1016             | 1     | 7.269 | -0.000 | 39633  | 257.9    | 1                        | 7.254 | 0.001  | 53423  | 260.4  |         |
| Aroclor-1016             | 2     | 7.649 | -0.001 | 131964 | 259.2    | 2                        | 7.848 | -0.000 | 115393 | 256.7  |         |
| Aroclor-1016             | 3     | 7.787 | -0.002 | 54988  | 234.8    | 3                        | 8.050 | 0.001  | 49351  | 269.0  |         |
| Aroclor-1016             | 4     | 8.402 | -0.002 | 39223  | 260.3    | 4                        | 8.304 | 0.001  | 36769  | 255.7  |         |
| Total CollAve (4 peaks): |       |       |        | 253.1  |          | Total Col2Ave (4 peaks): |       |        |        | 260.5  | RPD = 3 |
| Corrected Ave (3 peaks): |       |       |        | 250.6  |          | Corrected Ave (3 peaks): |       |        |        | 257.6  | RPD = 3 |

CalAmt %D: 1.2

CalAmt %D: 4.2

|                          |   |        |        |        |       |                          |        |        |        |       |          |
|--------------------------|---|--------|--------|--------|-------|--------------------------|--------|--------|--------|-------|----------|
| Aroclor-1260             | 1 | 11.040 | -0.004 | 80185  | 207.3 | 1                        | 11.650 | 0.001  | 83845  | 228.1 |          |
| Aroclor-1260             | 2 | 11.357 | -0.004 | 82954  | 208.6 | 2                        | 11.913 | 0.001  | 202584 | 217.9 |          |
| Aroclor-1260             | 3 | 11.729 | -0.005 | 210739 | 201.3 | 3                        | 12.432 | 0.001  | 57300  | 247.2 |          |
| Aroclor-1260             | 4 | 12.133 | -0.006 | 108614 | 200.8 | 4                        | 12.496 | -0.000 | 135519 | 225.2 |          |
| Aroclor-1260             | 5 | 12.240 | -0.004 | 44448  | 188.5 | NS                       | ---    |        |        | ----  |          |
| Total CollAve (5 peaks): |   |        |        | 201.3  |       | Total Col2Ave (4 peaks): |        |        |        | 229.6 | RPD = 13 |
| Corrected Ave (4 peaks): |   |        |        | 199.5  |       | Corrected Ave (3 peaks): |        |        |        | 223.7 | RPD = 11 |

CalAmt %D: -19.5

CalAmt %D: -8.2

Total PCB Area Col1 (5.909 - 13.792) = 2300970 Col1 Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.784 - 14.017) = 2027218 Col2 Total PCB = 0.5 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





**CONTINUING CALIBRATION CHECK**  
**EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GA00061</u>         |
| Lab File ID:   | <u>02062322ECD7.D</u>            | Calibration Date: | <u>01/24/2023</u>      |
| Sequence:      | <u>SLB0086</u>                   | Injection Date:   | <u>02/06/23</u>        |
| Lab Sample ID: | <u>SLB0086-CCV3</u>              | Injection Time:   | <u>16:55</u>           |
| Sequence Name: | <u>AR1242CCV3</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|---------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| Aroclor 1242               | A    | 250.00       | 258  | 0.0411165             | 0.0424758 |     | 3.2          | +/-20   |
| Aroclor-1242 (1)           | A    | 250.00       | 261  |                       | 0.0255454 |     |              |         |
| Aroclor-1242 (2)           | A    | 250.00       | 259  |                       | 0.0830796 |     |              |         |
| Aroclor-1242 (3)           | A    | 250.00       | 258  |                       | 0.0246370 |     |              |         |
| Aroclor-1242 (4)           | A    | 250.00       | 254  |                       | 0.0366413 |     |              |         |
| Aroclor 1242 [2C]          | A    | 250.00       | 259  | 0.0423236             | 0.0437419 |     | 3.6          | +/-20   |
| Aroclor-1242 (1) [2C]      | A    | 250.00       | 267  |                       | 0.0374323 |     |              |         |
| Aroclor-1242 (2) [2C]      | A    | 250.00       | 257  |                       | 0.0799251 |     |              |         |
| Aroclor-1242 (3) [2C]      | A    | 250.00       | 266  |                       | 0.0258685 |     |              |         |
| Aroclor-1242 (4) [2C]      | A    | 250.00       | 246  |                       | 0.0317416 |     |              |         |
| Decachlorobiphenyl         | A    | 40.000       | 35.6 | 0.8555994             | 0.7623007 |     | -11.0        | +/-20   |
| Tetrachlorometaxylene      | A    | 40.000       | 51.0 | 1.1307870             | 1.4425680 |     | 27.5         | +/-20 * |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 38.2 | 1.2696430             | 1.2127540 |     | -4.5         | +/-20   |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 51.0 | 1.0814980             | 1.3777020 |     | 27.5         | +/-20 * |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062322ECD7.D  
Data file 2: /230206.b/230206.b/02062322ECD7.D  
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m  
Compound Sublist: AR1242.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1242CCV3  
Client ID:  
Injection Date: 06-FEB-2023 16:55  
Report Date: 02/07/2023 10:35  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |       | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|-------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift | Response | on col |      |               | on col               |
| 5.808   | -0.001 | 294488   | 5.685  | 0.001 | 247943   | 51.0   | 51.0 | 0.1           | Tetrachloro-m-xylene |
| 13.888  | -0.004 | 209970   | 14.117 | 0.000 | 259881   | 35.6   | 38.2 | 7.0           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |       |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 408283      | -18.9 |
| Hexabromobiphenyl  | 647433         | 550885      | -14.9 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 359937      | 6.8  |
| Hexabromobiphenyl  | 382032         | 428580      | 12.2 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |        |        |                          | ZB35 Col |       |       |       |         |  |
|--------------------------|-------|-------|--------|--------|--------------------------|----------|-------|-------|-------|---------|--|
| Aroclor                  | Peak# | RT    | Shift  | Area   | Amount                   | Peak#    | RT    | Shift | Area  | Amount  |  |
| Aroclor-1242             | 1     | 7.269 | -0.001 | 32593  | 260.7                    | 1        | 7.254 | 0.000 | 42104 | 267.5   |  |
| Aroclor-1242             | 2     | 7.650 | -0.005 | 106000 | 259.1                    | 2        | 7.850 | 0.000 | 89900 | 257.1   |  |
| Aroclor-1242             | 3     | 8.402 | -0.005 | 31434  | 258.6                    | 3        | 9.153 | 0.000 | 29097 | 265.7   |  |
| Aroclor-1242             | 4     | 8.575 | -0.006 | 46750  | 254.6                    | 4        | 9.578 | 0.000 | 35703 | 246.0   |  |
| Total CollAve (4 peaks): |       |       |        | 258.2  | Total Col2Ave (4 peaks): |          |       |       | 259.1 | RPD = 0 |  |
| Corrected Ave (3 peaks): |       |       |        | 257.4  | Corrected Ave (3 peaks): |          |       |       | 256.3 | RPD = 0 |  |
| CalAmt %D:               |       |       |        | 3.3    | CalAmt %D:               |          |       |       | 3.6   |         |  |

Total PCB Area Col1 (5.909 - 13.792) = 789333 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.784 - 14.017) = 647099 Col2 Total PCB = 0.2 ppm\*

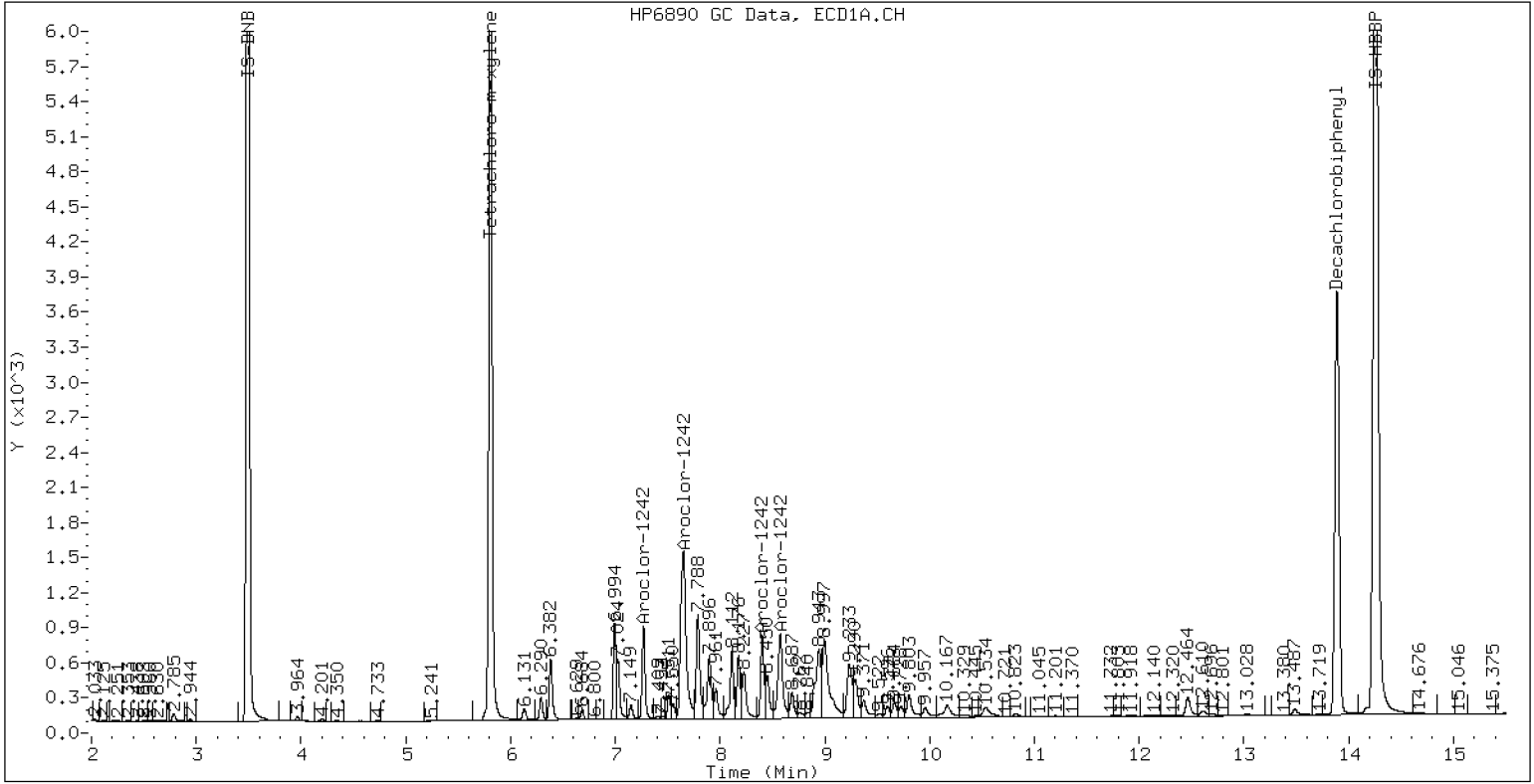
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3

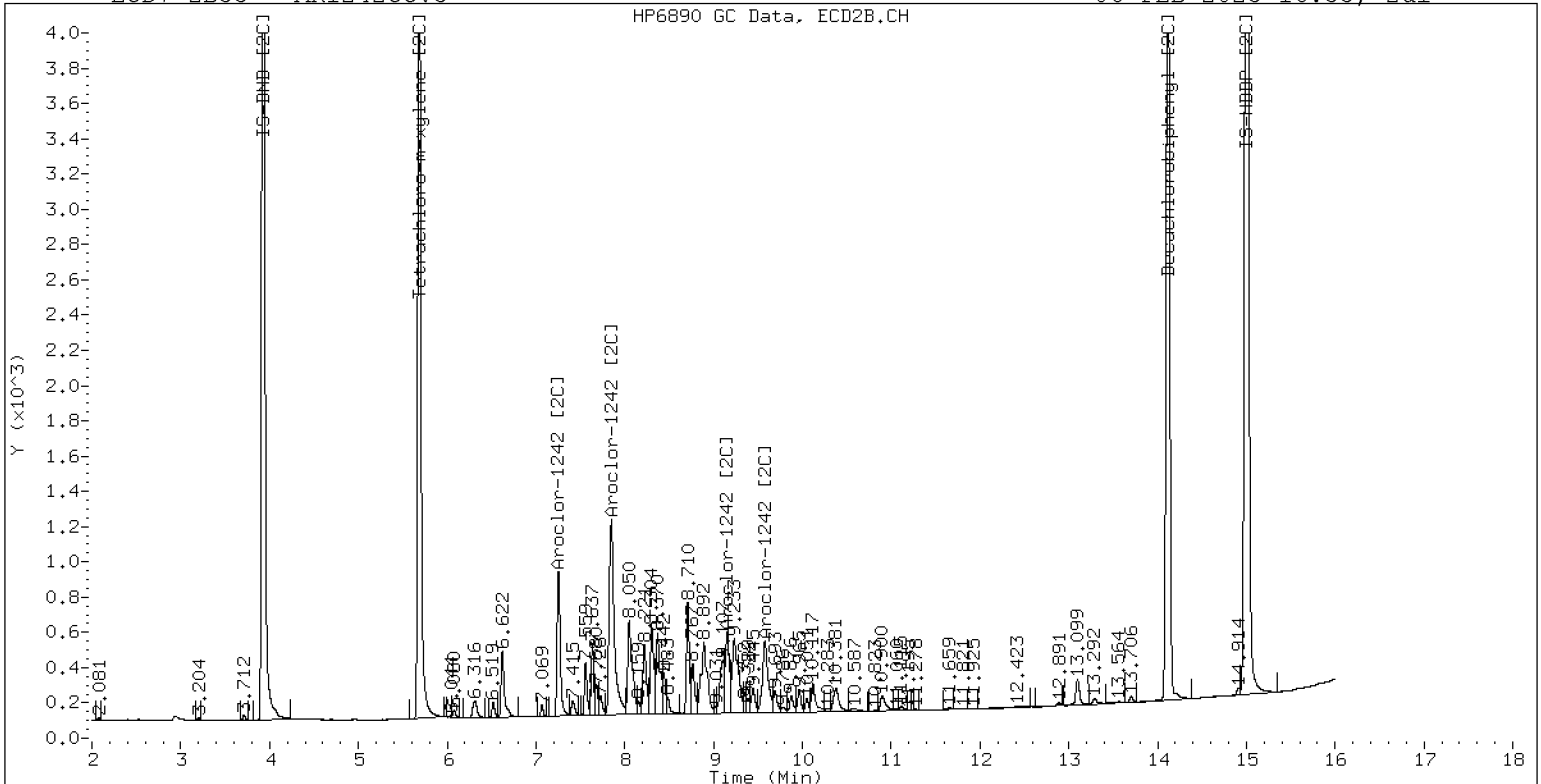
06-FEB-2023 16:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCV3

06-FEB-2023 16:55, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK  
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ECD7

Calibration: GA00061

Lab File ID: 02062323ECD7.D

Calibration Date: 01/24/2023

Sequence: SLB0086

Injection Date: 02/06/23

Lab Sample ID: SLB0086-CCV4

Injection Time: 17:16

Sequence Name: AR1660CCV4

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1016               | A    | 250.00       | 258  | 0.0506755             | 0.0523478 |     | 3.0          | +/-20 |
| Aroclor-1016 (1)           | A    | 250.00       | 264  | 0.0297277             | 0.0313680 |     | 5.6          |       |
| Aroclor-1016 (2)           | A    | 250.00       | 264  | 0.0985017             | 0.1040820 |     | 5.6          |       |
| Aroclor-1016 (3)           | A    | 250.00       | 238  | 0.0453193             | 0.0430857 |     | -4.8         |       |
| Aroclor-1016 (4)           | A    | 250.00       | 264  | 0.0291533             | 0.0308554 |     | 5.6          |       |
| Aroclor 1016 [2C]          | A    | 250.00       | 266  | 0.0519244             | 0.0549482 |     | 6.2          | +/-20 |
| Aroclor-1016 (1) [2C]      | A    | 250.00       | 266  | 0.0433907             | 0.0461627 |     | 6.4          |       |
| Aroclor-1016 (2) [2C]      | A    | 250.00       | 262  | 0.0950862             | 0.0995321 |     | 4.8          |       |
| Aroclor-1016 (3) [2C]      | A    | 250.00       | 274  | 0.0388014             | 0.0425189 |     | 9.6          |       |
| Aroclor-1016 (4) [2C]      | A    | 250.00       | 260  | 0.0304194             | 0.0315791 |     | 4.0          |       |
| Aroclor 1260               | A    | 250.00       | 220  | 0.0605224             | 0.0534901 |     | -12.0        | +/-20 |
| Aroclor-1260 (1)           | A    | 250.00       | 226  | 0.0448870             | 0.0405811 |     | -9.6         |       |
| Aroclor-1260 (2)           | A    | 250.00       | 226  | 0.0461412             | 0.0417988 |     | -9.6         |       |
| Aroclor-1260 (3)           | A    | 250.00       | 220  | 0.1214672             | 0.1069014 |     | -12.0        |       |
| Aroclor-1260 (4)           | A    | 250.00       | 221  | 0.0627593             | 0.0555064 |     | -11.6        |       |
| Aroclor-1260 (5)           | A    | 250.00       | 207  | 0.0273573             | 0.0226628 |     | -17.2        |       |
| Aroclor 1260 [2C]          | A    | 250.00       | 234  | 0.0836545             | 0.0770286 |     | -6.3         | +/-20 |
| Aroclor-1260 (1) [2C]      | A    | 250.00       | 232  | 0.0577136             | 0.0536354 |     | -7.2         |       |
| Aroclor-1260 (2) [2C]      | A    | 250.00       | 224  | 0.1460113             | 0.1308177 |     | -10.4        |       |
| Aroclor-1260 (3) [2C]      | A    | 250.00       | 251  | 0.0363944             | 0.0365246 |     | 0.4          |       |
| Aroclor-1260 (4) [2C]      | A    | 250.00       | 230  | 0.0944986             | 0.0871366 |     | -8.0         |       |
| Decachlorobiphenyl         | A    | 40.000       | 37.7 | 0.8555994             | 0.8058711 |     | -5.8         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 43.5 | 1.1307870             | 1.2302140 |     | 8.8          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 40.7 | 1.2696430             | 1.2930770 |     | 1.8          | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 43.2 | 1.0814980             | 1.1688240 |     | 8.0          | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062323ECD7.D  
Data file 2: /230206.b/230206.b/02062323ECD7.D  
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660CCV4  
Client ID:  
Injection Date: 06-FEB-2023 17:16  
Report Date: 02/07/2023 10:35  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |                | ZB35 Col |                | ZB5    | ZB35   | RPD  | Compound/Flag |     |                      |
|---------|----------------|----------|----------------|--------|--------|------|---------------|-----|----------------------|
| RT      | Shift Response | RT       | Shift Response | on col | on col |      |               |     |                      |
| 5.808   | -0.001         | 269944   | 5.685          | 0.001  | 224077 | 43.5 | 43.2          | 0.7 | Tetrachloro-m-xylene |
| 13.888  | -0.004         | 262911   | 14.117         | 0.000  | 318269 | 37.7 | 40.7          | 7.8 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 438857      | -12.8 |
| Hexabromobiphenyl  | 647433         | 652489      | 0.8   |
| Column 2           |                |             |       |
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 336911         | 383423      | 13.8  |
| Hexabromobiphenyl  | 382032         | 492266      | 28.9  |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |        |               |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|---------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area   | Amount        |
| Aroclor-1016             | 1     | 7.269  | -0.001 | 43019  | 263.8    | 1                        | 7.253  | -0.000 | 55312  | 266.0         |
| Aroclor-1016             | 2     | 7.648  | -0.002 | 142741 | 264.2    | 2                        | 7.849  | 0.000  | 119259 | 261.7         |
| Aroclor-1016             | 3     | 7.787  | -0.001 | 59089  | 237.7    | 3                        | 8.048  | -0.000 | 50946  | 274.0         |
| Aroclor-1016             | 4     | 8.402  | -0.002 | 42316  | 264.6    | 4                        | 8.304  | 0.001  | 37838  | 259.5         |
| Total CollAve (4 peaks): |       |        |        | 257.6  |          | Total Col2Ave (4 peaks): |        |        |        | 265.3 RPD = 3 |
| Corrected Ave (3 peaks): |       |        |        | 255.2  |          | Corrected Ave (3 peaks): |        |        |        | 262.4 RPD = 3 |
| CalAmt %D:               |       |        |        | 3.0    |          | CalAmt %D:               |        |        |        | 6.1           |
| Aroclor-1260             | 1     | 11.041 | -0.003 | 82746  | 226.0    | 1                        | 11.649 | 0.001  | 82509  | 232.3         |
| Aroclor-1260             | 2     | 11.356 | -0.004 | 85229  | 226.5    | 2                        | 11.913 | 0.001  | 201241 | 224.0         |
| Aroclor-1260             | 3     | 11.729 | -0.006 | 217975 | 220.0    | 3                        | 12.431 | 0.000  | 56187  | 250.9         |
| Aroclor-1260             | 4     | 12.132 | -0.008 | 113179 | 221.1    | 4                        | 12.496 | -0.000 | 134045 | 230.5         |
| Aroclor-1260             | 5     | 12.239 | -0.005 | 46210  | 207.1    | NS                       | ---    |        |        | ----          |
| Total CollAve (5 peaks): |       |        |        | 220.1  |          | Total Col2Ave (4 peaks): |        |        |        | 234.4 RPD = 6 |
| Corrected Ave (4 peaks): |       |        |        | 218.6  |          | Corrected Ave (3 peaks): |        |        |        | 228.9 RPD = 5 |
| CalAmt %D:               |       |        |        | -11.9  |          | CalAmt %D:               |        |        |        | -6.2          |

Total PCB Area Col1 (5.909 - 13.792) = 2431740 Col1 Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.784 - 14.017) = 2020792 Col2 Total PCB = 0.5 ppm\*

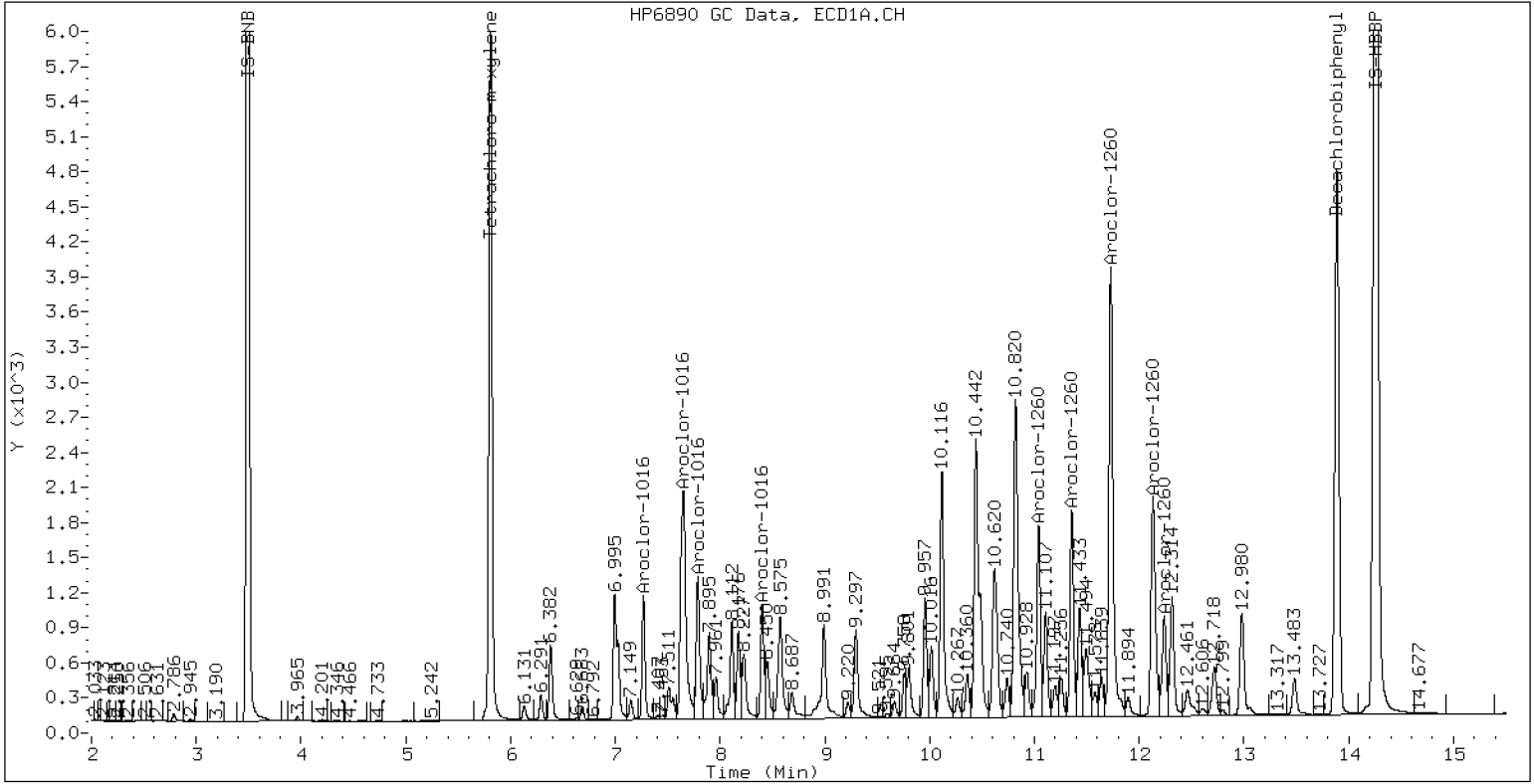
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4

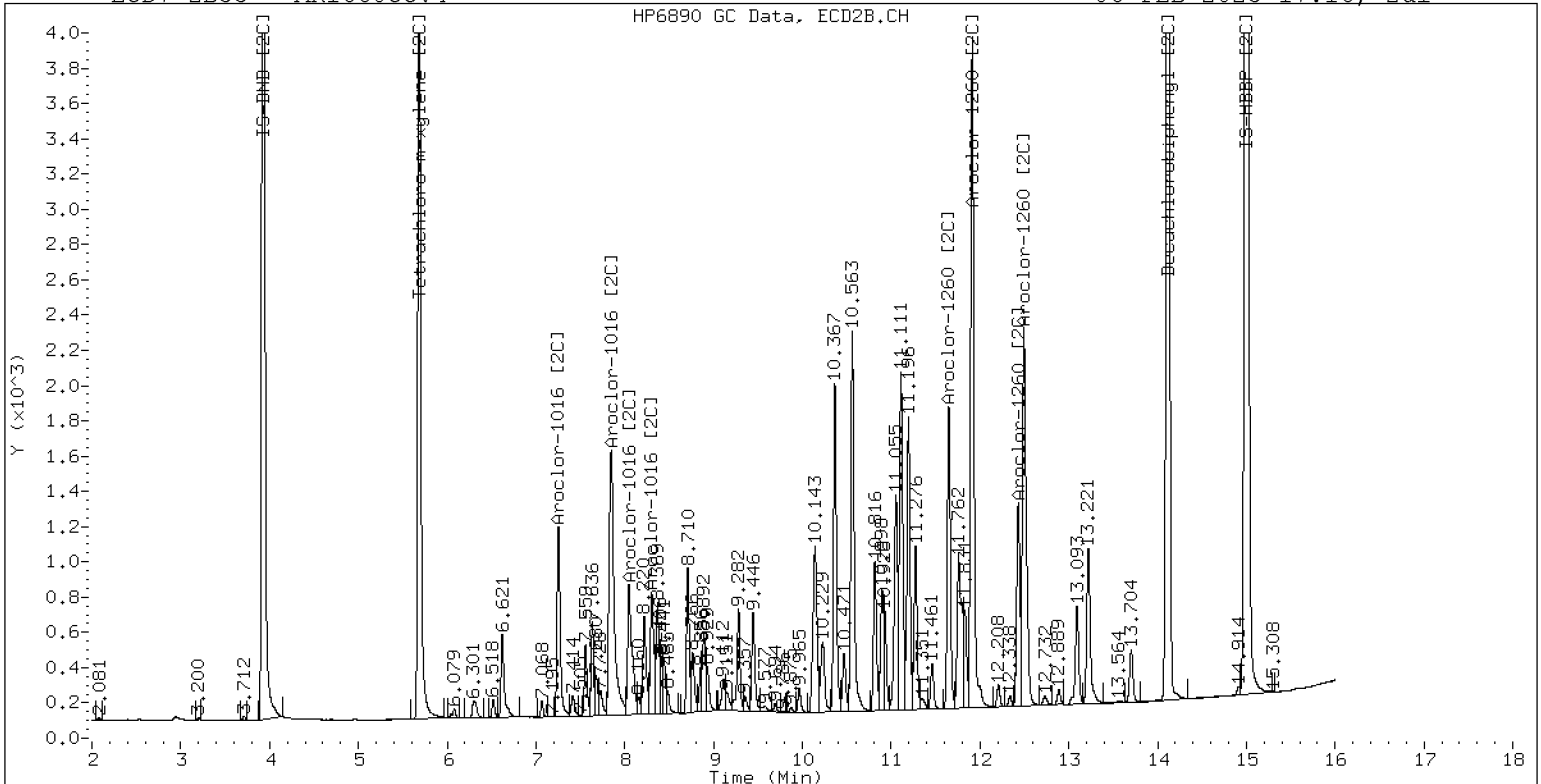
06-FEB-2023 17:16, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV4

06-FEB-2023 17:16, 2ul



ZB-35 Manual Integration: NO



### CONTINUING CALIBRATION CHECK EPA 8082A

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GA00061</u>         |
| Lab File ID:   | <u>02062338ECD7.D</u>            | Calibration Date: | <u>01/24/2023</u>      |
| Sequence:      | <u>SLB0086</u>                   | Injection Date:   | <u>02/06/23</u>        |
| Lab Sample ID: | <u>SLB0086-CCV5</u>              | Injection Time:   | <u>22:31</u>           |
| Sequence Name: | <u>AR1254CCV5</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|---------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| Aroclor 1254               | A    | 250.00       | 194  | 0.0675033             | 0.0527119 |     | -22.3        | +/-20 * |
| Aroclor-1254 (1)           | A    | 250.00       | 192  |                       | 0.0625146 |     |              |         |
| Aroclor-1254 (2)           | A    | 250.00       | 191  |                       | 0.0266029 |     |              |         |
| Aroclor-1254 (3)           | A    | 250.00       | 194  |                       | 0.0404385 |     |              |         |
| Aroclor-1254 (4)           | A    | 250.00       | 202  |                       | 0.0827884 |     |              |         |
| Aroclor-1254 (5)           | A    | 250.00       | 192  |                       | 0.0512150 |     |              |         |
| Aroclor 1254 [2C]          | A    | 250.00       | 209  | 0.0733219             | 0.0613049 |     | -16.4        | +/-20   |
| Aroclor-1254 (1) [2C]      | A    | 250.00       | 218  |                       | 0.0505871 |     |              |         |
| Aroclor-1254 (2) [2C]      | A    | 250.00       | 221  |                       | 0.0415427 |     |              |         |
| Aroclor-1254 (3) [2C]      | A    | 250.00       | 201  |                       | 0.0821649 |     |              |         |
| Aroclor-1254 (4) [2C]      | A    | 250.00       | 219  |                       | 0.0897449 |     |              |         |
| Aroclor-1254 (5) [2C]      | A    | 250.00       | 186  |                       | 0.0424851 |     |              |         |
| Decachlorobiphenyl         | A    | 40.000       | 35.0 | 0.8555994             | 0.7478624 |     | -12.5        | +/-20   |
| Tetrachlorometaxylene      | A    | 40.000       | 40.6 | 1.1307870             | 1.1465810 |     | 1.5          | +/-20   |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 37.0 | 1.2696430             | 1.1744380 |     | -7.5         | +/-20   |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 40.8 | 1.0814980             | 1.1028610 |     | 2.0          | +/-20   |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062338ECD7.D  
Data file 2: /230206.b/230206.b/02062338ECD7.D  
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m  
Compound Sublist: AR1254.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1254CCV5  
Client ID:  
Injection Date: 06-FEB-2023 22:31  
Report Date: 02/07/2023 10:36  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.808   | -0.001 | 258840   | 5.685  | 0.001  | 218710   | 40.6   | 40.8 | 0.6           | Tetrachloro-m-xylene |
| 13.889  | -0.003 | 179214   | 14.116 | -0.000 | 227542   | 35.0   | 37.0 | 5.7           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |       |
|--------------------|----------------|-------------|-------|
|                    | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 503318         | 451499      | -10.3 |
| Hexabromobiphenyl  | 647433         | 479270      | -26.0 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 396623      | 17.7 |
| Hexabromobiphenyl  | 382032         | 387491      | 1.4  |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |       |        |        |         |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|-------|--------|--------|---------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift | Area   | Amount |         |
| Aroclor-1254             | 1     | 9.295  | -0.004 | 88204  | 191.7    | 1                        | 9.444  | 0.000 | 62700  | 217.9  |         |
| Aroclor-1254             | 2     | 9.371  | -0.007 | 37535  | 191.0    | 2                        | 9.964  | 0.000 | 51490  | 221.4  |         |
| Aroclor-1254             | 3     | 9.662  | -0.008 | 57056  | 193.5    | 3                        | 10.115 | 0.000 | 101839 | 200.7  |         |
| Aroclor-1254             | 4     | 9.799  | -0.010 | 116809 | 202.2    | 4                        | 10.364 | 0.000 | 111234 | 219.2  |         |
| Aroclor-1254             | 5     | 10.158 | -0.020 | 72261  | 192.3    | 5                        | 10.562 | 0.000 | 52658  | 186.4  |         |
| Total CollAve (5 peaks): |       |        |        | 194.2  |          | Total Col2Ave (5 peaks): |        |       |        | 209.1  | RPD = 7 |
| Corrected Ave (4 peaks): |       |        |        | 192.2  |          | Corrected Ave (4 peaks): |        |       |        | 206.1  | RPD = 7 |
| CalAmt %D:               |       |        |        | -22.3  |          | CalAmt %D:               |        |       |        | -16.4  |         |

Total PCB Area Col1 (5.909 - 13.792) = 1181525      Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.784 - 14.017) = 1042237      Col2 Total PCB = 0.2 ppm\*

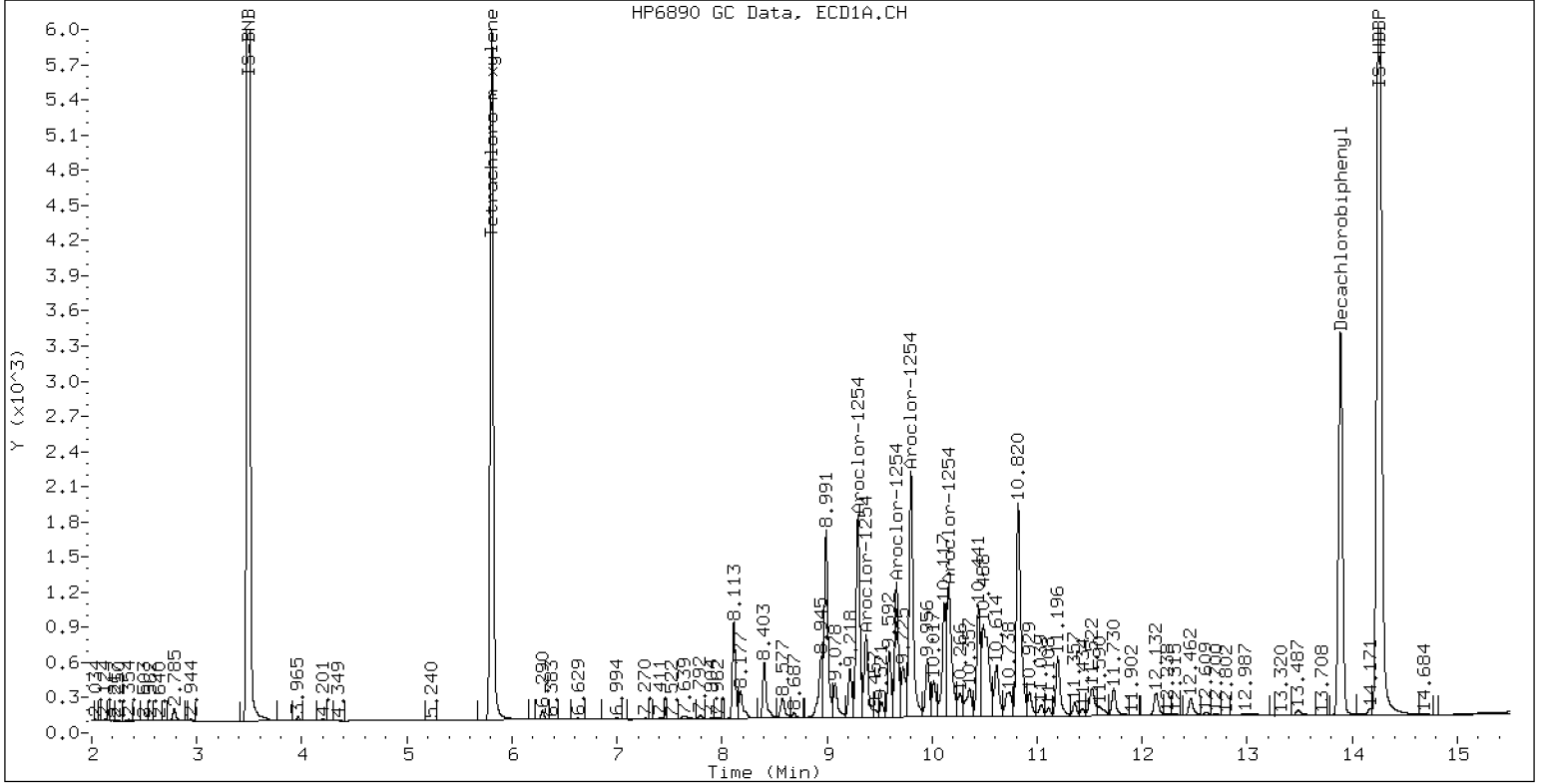
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5

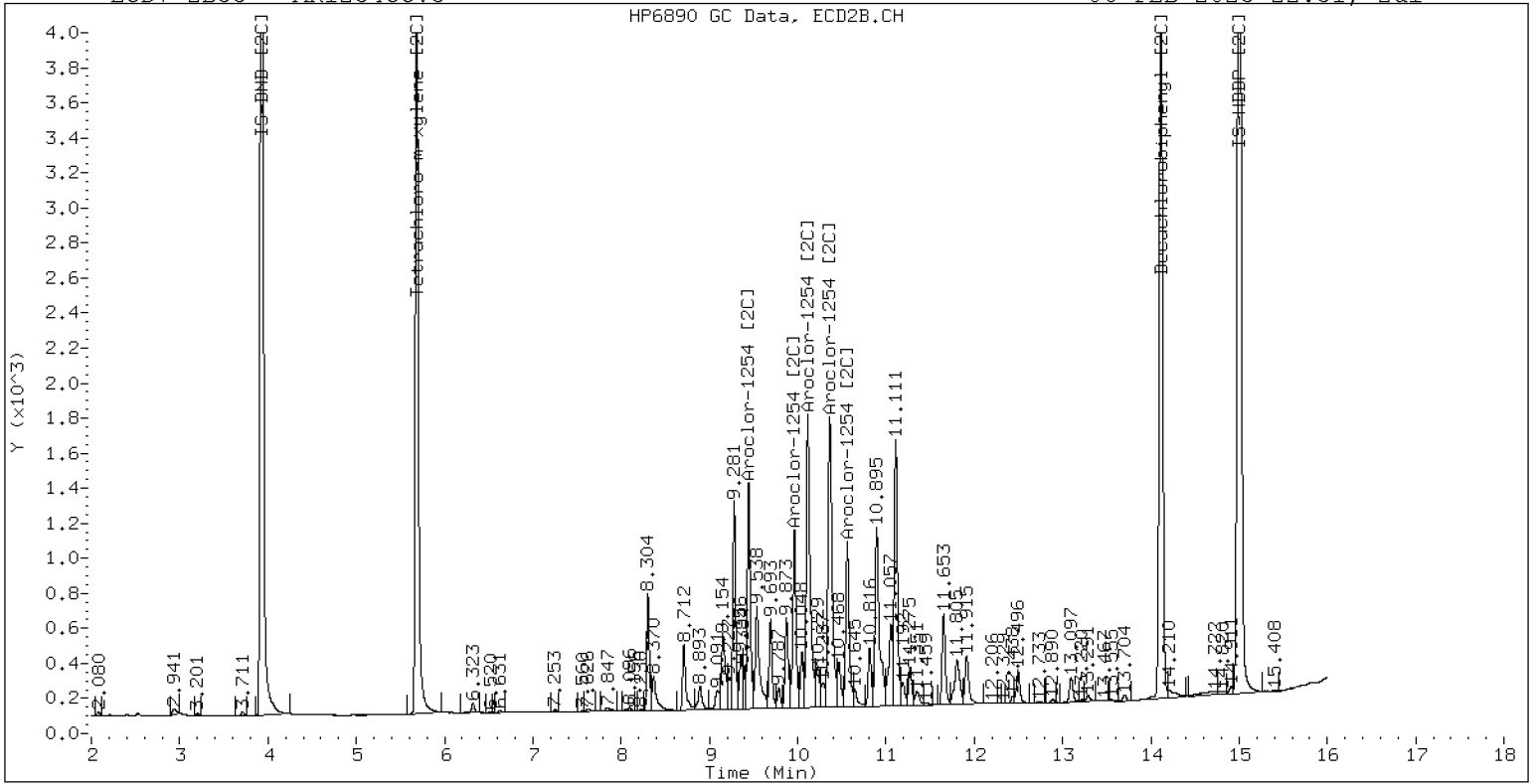
06-FEB-2023 22:31, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV5

06-FEB-2023 22:31, 2ul



ZB-35 Manual Integration: NO



**CONTINUING CALIBRATION CHECK**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ECD7

Calibration: GA00061

Lab File ID: 02062339ECD7.D

Calibration Date: 01/24/2023

Sequence: SLB0086

Injection Date: 02/06/23

Lab Sample ID: SLB0086-CCV6

Injection Time: 22:52

Sequence Name: AR1660CCV6

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1016               | A    | 250.00       | 257  | 0.0506755             | 0.0521637 |     | 2.6          | +/-20 |
| Aroclor-1016 (1)           | A    | 250.00       | 262  | 0.0297277             | 0.0311810 |     | 4.8          |       |
| Aroclor-1016 (2)           | A    | 250.00       | 264  | 0.0985017             | 0.1038747 |     | 5.6          |       |
| Aroclor-1016 (3)           | A    | 250.00       | 238  | 0.0453193             | 0.0430905 |     | -4.8         |       |
| Aroclor-1016 (4)           | A    | 250.00       | 262  | 0.0291533             | 0.0305087 |     | 4.8          |       |
| Aroclor 1016 [2C]          | A    | 250.00       | 263  | 0.0519244             | 0.0545342 |     | 5.3          | +/-20 |
| Aroclor-1016 (1) [2C]      | A    | 250.00       | 265  | 0.0433907             | 0.0459405 |     | 6.0          |       |
| Aroclor-1016 (2) [2C]      | A    | 250.00       | 259  | 0.0950862             | 0.0986918 |     | 3.6          |       |
| Aroclor-1016 (3) [2C]      | A    | 250.00       | 272  | 0.0388014             | 0.0422104 |     | 8.8          |       |
| Aroclor-1016 (4) [2C]      | A    | 250.00       | 257  | 0.0304194             | 0.0312943 |     | 2.8          |       |
| Aroclor 1260               | A    | 250.00       | 232  | 0.0605224             | 0.0563671 |     | -7.2         | +/-20 |
| Aroclor-1260 (1)           | A    | 250.00       | 247  | 0.0448870             | 0.0443053 |     | -1.2         |       |
| Aroclor-1260 (2)           | A    | 250.00       | 244  | 0.0461412             | 0.0450558 |     | -2.4         |       |
| Aroclor-1260 (3)           | A    | 250.00       | 231  | 0.1214672             | 0.1123861 |     | -7.6         |       |
| Aroclor-1260 (4)           | A    | 250.00       | 227  | 0.0627593             | 0.0570135 |     | -9.2         |       |
| Aroclor-1260 (5)           | A    | 250.00       | 211  | 0.0273573             | 0.0230747 |     | -15.6        |       |
| Aroclor 1260 [2C]          | A    | 250.00       | 245  | 0.0836545             | 0.0800680 |     | -2.1         | +/-20 |
| Aroclor-1260 (1) [2C]      | A    | 250.00       | 247  | 0.0577136             | 0.0571014 |     | -1.2         |       |
| Aroclor-1260 (2) [2C]      | A    | 250.00       | 231  | 0.1460113             | 0.1347085 |     | -7.6         |       |
| Aroclor-1260 (3) [2C]      | A    | 250.00       | 262  | 0.0363944             | 0.0380858 |     | 4.8          |       |
| Aroclor-1260 (4) [2C]      | A    | 250.00       | 239  | 0.0944986             | 0.0903763 |     | -4.4         |       |
| Decachlorobiphenyl         | A    | 40.000       | 37.9 | 0.8555994             | 0.8105942 |     | -5.3         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 43.5 | 1.1307870             | 1.2289040 |     | 8.8          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 39.9 | 1.2696430             | 1.2660150 |     | -0.3         | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 43.0 | 1.0814980             | 1.1618800 |     | 7.5          | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062339ECD7.D  
Data file 2: /230206.b/230206.b/02062339ECD7.D  
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660CCV6  
Client ID:  
Injection Date: 06-FEB-2023 22:52  
Report Date: 02/07/2023 10:36  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.807   | -0.002 | 286629   | 5.684  | 0.000  | 237824   | 43.5   | 43.0 | 1.2           | Tetrachloro-m-xylene |
| 13.889  | -0.002 | 240036   | 14.116 | -0.000 | 289682   | 37.9   | 39.9 | 5.1           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 466479      | -7.3 |
| Hexabromobiphenyl  | 647433         | 592247      | -8.5 |

| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 409378      | 21.5 |
| Hexabromobiphenyl  | 382032         | 457628      | 19.8 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |        |               |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|---------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area   | Amount        |
| Aroclor-1016             | 1     | 7.268  | -0.001 | 45454  | 262.2    | 1                        | 7.253  | -0.000 | 58772  | 264.7         |
| Aroclor-1016             | 2     | 7.649  | -0.002 | 151423 | 263.6    | 2                        | 7.849  | 0.000  | 126257 | 259.5         |
| Aroclor-1016             | 3     | 7.787  | -0.002 | 62815  | 237.7    | 3                        | 8.049  | 0.001  | 54000  | 272.0         |
| Aroclor-1016             | 4     | 8.401  | -0.002 | 44474  | 261.6    | 4                        | 8.303  | 0.000  | 40035  | 257.2         |
| Total CollAve (4 peaks): |       |        |        | 256.3  |          | Total Col2Ave (4 peaks): |        |        |        | 263.3 RPD = 3 |
| Corrected Ave (3 peaks): |       |        |        | 253.8  |          | Corrected Ave (3 peaks): |        |        |        | 260.5 RPD = 3 |
| CalAmt %D:               |       |        |        | 2.5    |          | CalAmt %D:               |        |        |        | 5.3           |
| Aroclor-1260             | 1     | 11.039 | -0.004 | 81999  | 246.8    | 1                        | 11.648 | 0.000  | 81660  | 247.3         |
| Aroclor-1260             | 2     | 11.356 | -0.004 | 83388  | 244.1    | 2                        | 11.912 | -0.000 | 192645 | 230.6         |
| Aroclor-1260             | 3     | 11.729 | -0.006 | 208001 | 231.3    | 3                        | 12.431 | 0.000  | 54466  | 261.6         |
| Aroclor-1260             | 4     | 12.132 | -0.007 | 105519 | 227.1    | 4                        | 12.496 | -0.001 | 129246 | 239.1         |
| Aroclor-1260             | 5     | 12.240 | -0.004 | 42706  | 210.9    | NS                       | ---    |        |        | ----          |
| Total CollAve (5 peaks): |       |        |        | 232.0  |          | Total Col2Ave (4 peaks): |        |        |        | 244.7 RPD = 5 |
| Corrected Ave (4 peaks): |       |        |        | 228.4  |          | Corrected Ave (3 peaks): |        |        |        | 239.0 RPD = 5 |
| CalAmt %D:               |       |        |        | -7.2   |          | CalAmt %D:               |        |        |        | -2.1          |

Total PCB Area Coll (5.909 - 13.792) = 2433568 Coll Total PCB = 0.4 ppm\*

Total PCB Area Col2 (5.784 - 14.017) = 2065863 Col2 Total PCB = 0.5 ppm\*

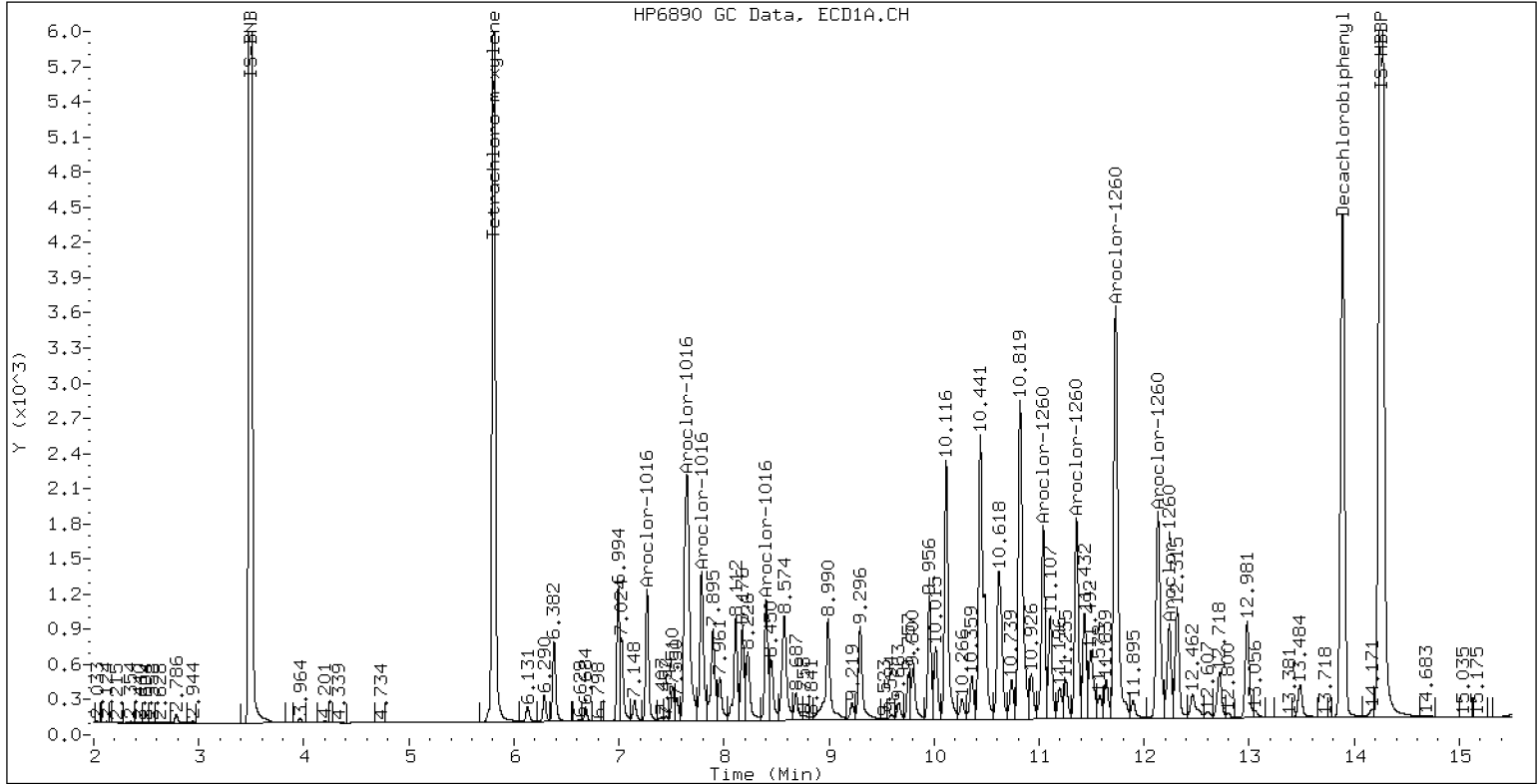
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6

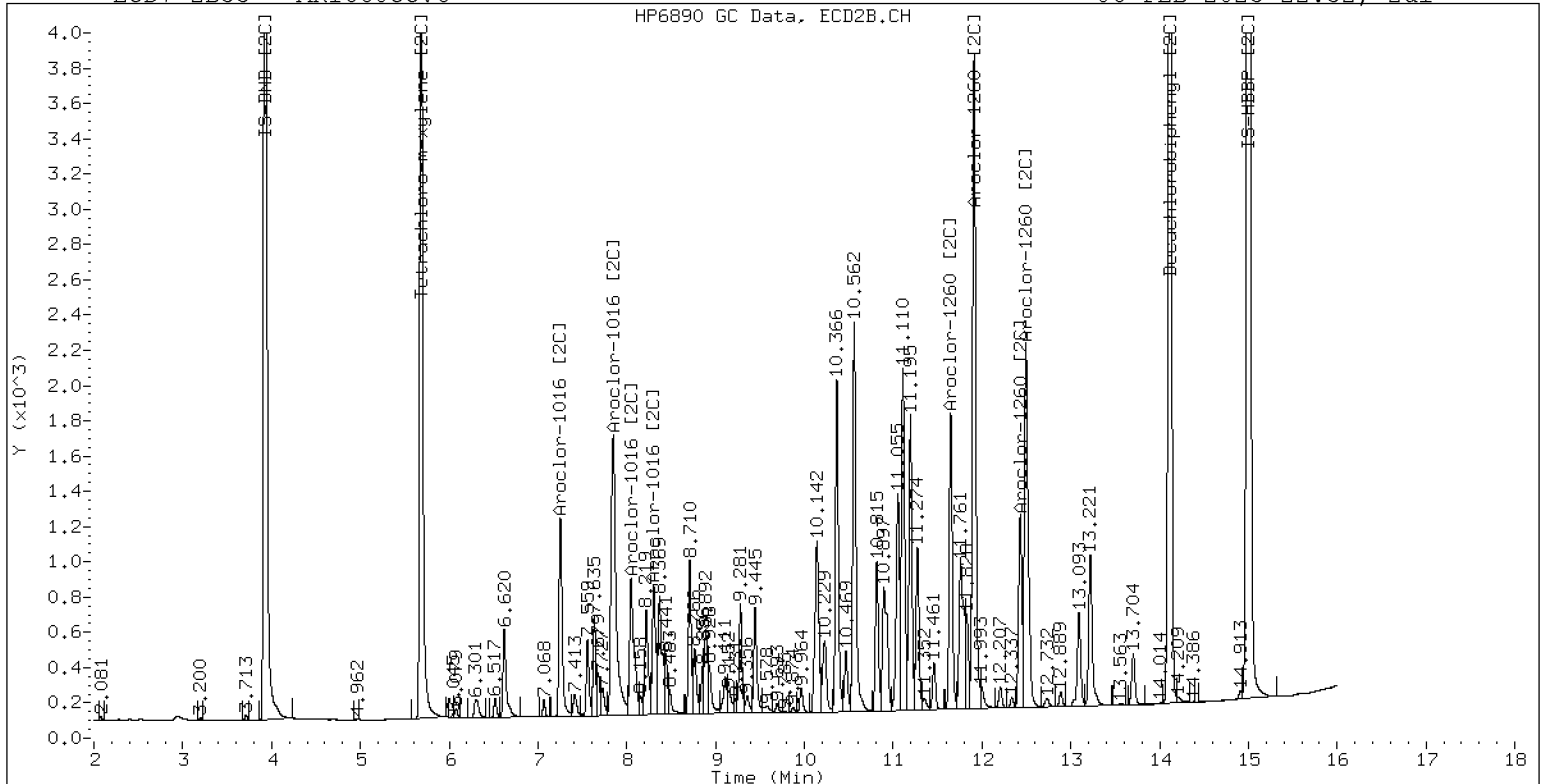
06-FEB-2023 22:52, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV6

06-FEB-2023 22:52, 2ul



ZB-35 Manual Integration: NO



**CONTINUING CALIBRATION CHECK**  
**EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GA00061</u>         |
| Lab File ID:   | <u>02062349ECD7.D</u>            | Calibration Date: | <u>01/24/2023</u>      |
| Sequence:      | <u>SLB0086</u>                   | Injection Date:   | <u>02/07/23</u>        |
| Lab Sample ID: | <u>SLB0086-CCV7</u>              | Injection Time:   | <u>02:22</u>           |
| Sequence Name: | <u>AR1248CCV7</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1248               | A    | 250.00       | 218  | 0.0592639             | 0.0496052 |     | -12.9        | +/-20 |
| Aroclor-1248 (1)           | A    | 250.00       | 261  |                       | 0.0417240 |     |              |       |
| Aroclor-1248 (2)           | A    | 250.00       | 258  |                       | 0.0526436 |     |              |       |
| Aroclor-1248 (3)           | A    | 250.00       | 182  |                       | 0.0711093 |     |              |       |
| Aroclor-1248 (4)           | A    | 250.00       | 170  |                       | 0.0329439 |     |              |       |
| Aroclor 1248 [2C]          | A    | 250.00       | 253  | 0.0453673             | 0.0458880 |     | 1.3          | +/-20 |
| Aroclor-1248 (1) [2C]      | A    | 250.00       | 265  |                       | 0.0383709 |     |              |       |
| Aroclor-1248 (2) [2C]      | A    | 250.00       | 238  |                       | 0.0370995 |     |              |       |
| Aroclor-1248 (3) [2C]      | A    | 250.00       | 263  |                       | 0.0499817 |     |              |       |
| Aroclor-1248 (4) [2C]      | A    | 250.00       | 247  |                       | 0.0581000 |     |              |       |
| Decachlorobiphenyl         | A    | 40.000       | 36.9 | 0.8555994             | 0.7899024 |     | -7.8         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 41.5 | 1.1307870             | 1.1731400 |     | 3.8          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 39.4 | 1.2696430             | 1.2492240 |     | -1.5         | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 41.7 | 1.0814980             | 1.1280550 |     | 4.3          | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

1248

Data file 1: /230206.b/02062349ECD7.D  
Data file 2: /230206.b/230206.b/02062349ECD7.D  
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m  
Compound Sublist: AR1248.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1254CCV7  
Client ID:  
Injection Date: 07-FEB-2023 02:22  
Report Date: 02/07/2023 10:36  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.808  | -0.001        | 279862   | 5.685  | 0.001          | 235086   | 41.5       | 41.7        | 0.5 | Tetrachloro-m-xylene |
| 13.889 | -0.003        | 303535   | 14.117 | 0.001          | 338045   | 36.9       | 39.4        | 6.4 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 477116      | -5.2 |
| Hexabromobiphenyl  | 647433         | 768538      | 18.7 |
| Column 2           |                |             |      |
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 416799      | 23.7 |
| Hexabromobiphenyl  | 382032         | 541208      | 41.7 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |        |        |                          | ZB35 Col |       |       |       |          |  |
|--------------------------|-------|-------|--------|--------|--------------------------|----------|-------|-------|-------|----------|--|
| Aroclor                  | Peak# | RT    | Shift  | Area   | Amount                   | Peak#    | RT    | Shift | Area  | Amount   |  |
| Aroclor-1248             | 1     | 8.402 | -0.004 | 62210  | 260.6                    | 1        | 8.303 | 0.000 | 49978 | 265.3    |  |
| Aroclor-1248             | 2     | 8.574 | -0.006 | 78491  | 257.8                    | 2        | 8.710 | 0.000 | 48322 | 238.3    |  |
| Aroclor-1248             | 3     | 8.994 | -0.005 | 106023 | 182.0                    | 3        | 9.152 | 0.000 | 65101 | 262.7    |  |
| Aroclor-1248             | 4     | 9.292 | -0.002 | 49119  | 170.4                    | 4        | 9.576 | 0.000 | 75675 | 246.9    |  |
| Total Col1Ave (4 peaks): |       |       |        | 217.7  | Total Col2Ave (4 peaks): |          |       |       | 253.3 | RPD = 15 |  |
| Corrected Ave (3 peaks): |       |       |        | 203.4  | Corrected Ave (3 peaks): |          |       |       | 249.3 | RPD = 20 |  |
| CalAmt %D:               |       |       |        | -12.9  | CalAmt %D:               |          |       |       | 1.3   |          |  |

Total PCB Area Col1 (5.909 - 13.792) = 1189644 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.784 - 14.017) = 962878 Col2 Total PCB = 0.2 ppm\*

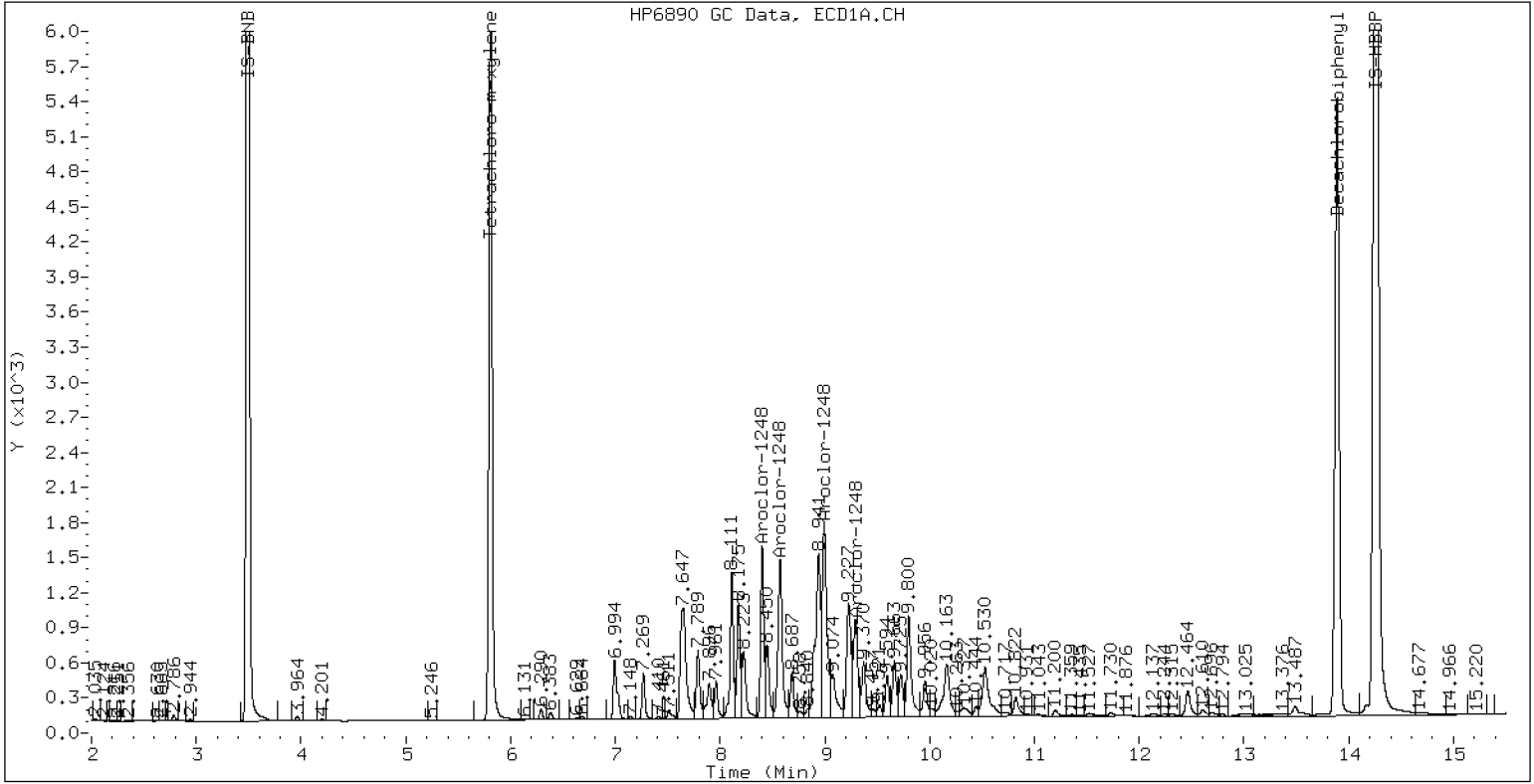
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV7

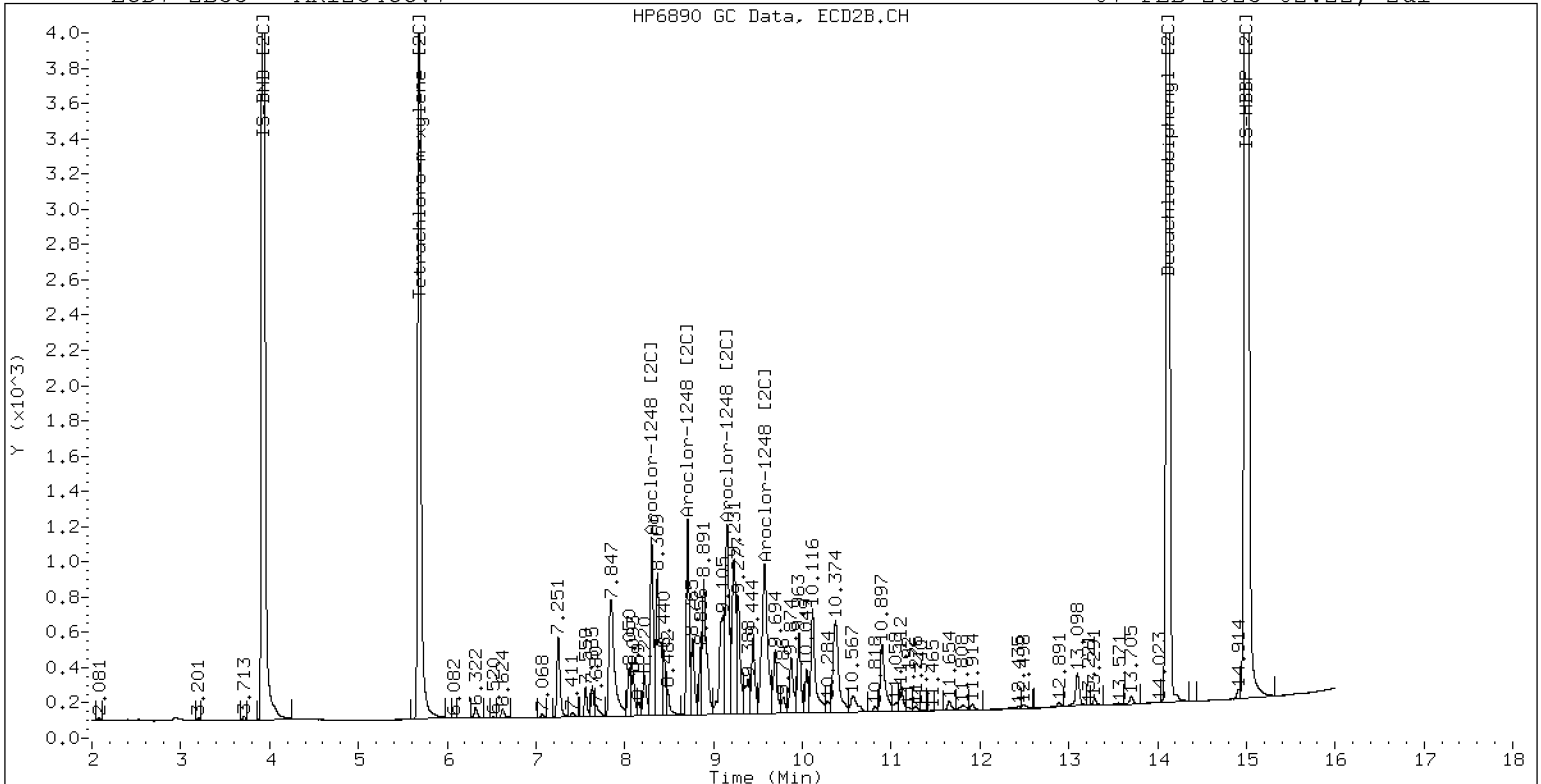
07-FEB-2023 02:22, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV7

07-FEB-2023 02:22, 2ul



ZB-35 Manual Integration: NO



**CONTINUING CALIBRATION CHECK**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ECD7

Calibration: GA00061

Lab File ID: 02062350ECD7.D

Calibration Date: 01/24/2023

Sequence: SLB0086

Injection Date: 02/07/23

Lab Sample ID: SLB0086-CCV8

Injection Time: 02:43

Sequence Name: AR1660CCV8

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1016               | A    | 250.00       | 254  | 0.0506755             | 0.0518016 |     | 1.7          | +/-20 |
| Aroclor-1016 (1)           | A    | 250.00       | 257  | 0.0297277             | 0.0306030 |     | 2.8          |       |
| Aroclor-1016 (2)           | A    | 250.00       | 261  | 0.0985017             | 0.1030316 |     | 4.4          |       |
| Aroclor-1016 (3)           | A    | 250.00       | 236  | 0.0453193             | 0.0428788 |     | -5.6         |       |
| Aroclor-1016 (4)           | A    | 250.00       | 263  | 0.0291533             | 0.0306929 |     | 5.2          |       |
| Aroclor 1016 [2C]          | A    | 250.00       | 260  | 0.0519244             | 0.0538390 |     | 4.0          | +/-20 |
| Aroclor-1016 (1) [2C]      | A    | 250.00       | 258  | 0.0433907             | 0.0448460 |     | 3.2          |       |
| Aroclor-1016 (2) [2C]      | A    | 250.00       | 256  | 0.0950862             | 0.0975056 |     | 2.4          |       |
| Aroclor-1016 (3) [2C]      | A    | 250.00       | 269  | 0.0388014             | 0.0417676 |     | 7.6          |       |
| Aroclor-1016 (4) [2C]      | A    | 250.00       | 257  | 0.0304194             | 0.0312370 |     | 2.8          |       |
| Aroclor 1260               | A    | 250.00       | 209  | 0.0605224             | 0.0508444 |     | -16.4        | +/-20 |
| Aroclor-1260 (1)           | A    | 250.00       | 216  | 0.0448870             | 0.0387182 |     | -13.6        |       |
| Aroclor-1260 (2)           | A    | 250.00       | 216  | 0.0461412             | 0.0399080 |     | -13.6        |       |
| Aroclor-1260 (3)           | A    | 250.00       | 209  | 0.1214672             | 0.1017544 |     | -16.4        |       |
| Aroclor-1260 (4)           | A    | 250.00       | 209  | 0.0627593             | 0.0524760 |     | -16.4        |       |
| Aroclor-1260 (5)           | A    | 250.00       | 195  | 0.0273573             | 0.0213655 |     | -22.0        |       |
| Aroclor 1260 [2C]          | A    | 250.00       | 229  | 0.0836545             | 0.0747860 |     | -8.6         | +/-20 |
| Aroclor-1260 (1) [2C]      | A    | 250.00       | 227  | 0.0577136             | 0.0525165 |     | -9.2         |       |
| Aroclor-1260 (2) [2C]      | A    | 250.00       | 215  | 0.1460113             | 0.1253557 |     | -14.0        |       |
| Aroclor-1260 (3) [2C]      | A    | 250.00       | 246  | 0.0363944             | 0.0358122 |     | -1.6         |       |
| Aroclor-1260 (4) [2C]      | A    | 250.00       | 226  | 0.0944986             | 0.0854597 |     | -9.6         |       |
| Decachlorobiphenyl         | A    | 40.000       | 38.5 | 0.8555994             | 0.8241060 |     | -3.8         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 42.6 | 1.1307870             | 1.2058950 |     | 6.5          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 40.5 | 1.2696430             | 1.2855030 |     | 1.3          | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 42.7 | 1.0814980             | 1.1542100 |     | 6.8          | +/-20 |

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062350ECD7.D  
Data file 2: /230206.b/230206.b/02062350ECD7.D  
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660CCV8  
Client ID:  
Injection Date: 07-FEB-2023 02:43  
Report Date: 02/07/2023 10:36  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.808  | -0.001        | 298427   | 5.684  | 0.000          | 247814   | 42.7       | 42.7        | 0.1 | Tetrachloro-m-xylene |
| 13.888 | -0.003        | 325479   | 14.117 | 0.000          | 367555   | 38.5       | 40.5        | 5.0 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 503318         | 494947      | -1.7 |
| Hexabromobiphenyl  | 647433         | 789896      | 22.0 |
| Column 2           |                |             |      |
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 336911         | 429409      | 27.5 |
| Hexabromobiphenyl  | 382032         | 571846      | 49.7 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 24-JAN-2023  
<- Indicates standard response outside Limits (-50 to +100%)



| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |       |        |               |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|-------|--------|---------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift | Area   | Amount        |
| Aroclor-1016             | 1     | 7.268  | -0.002 | 47334  | 257.4    | 1                        | 7.253  | 0.000 | 60179  | 258.4         |
| Aroclor-1016             | 2     | 7.649  | -0.001 | 159360 | 261.5    | 2                        | 7.848  | 0.000 | 130843 | 256.4         |
| Aroclor-1016             | 3     | 7.786  | -0.002 | 66321  | 236.5    | 3                        | 8.048  | 0.000 | 56048  | 269.1         |
| Aroclor-1016             | 4     | 8.401  | -0.002 | 47473  | 263.2    | 4                        | 8.303  | 0.000 | 41917  | 256.7         |
| Total CollAve (4 peaks): |       |        |        | 254.6  |          | Total Col2Ave (4 peaks): |        |       |        | 260.1 RPD = 2 |
| Corrected Ave (3 peaks): |       |        |        | 251.8  |          | Corrected Ave (3 peaks): |        |       |        | 257.2 RPD = 2 |
| CalAmt %D:               |       |        |        | 1.9    |          | CalAmt %D:               |        |       |        | 4.1           |
| Aroclor-1260             | 1     | 11.039 | -0.004 | 95573  | 215.6    | 1                        | 11.648 | 0.000 | 93848  | 227.5         |
| Aroclor-1260             | 2     | 11.356 | -0.005 | 98510  | 216.2    | 2                        | 11.912 | 0.000 | 224013 | 214.6         |
| Aroclor-1260             | 3     | 11.727 | -0.007 | 251173 | 209.4    | 3                        | 12.431 | 0.000 | 63997  | 246.0         |
| Aroclor-1260             | 4     | 12.131 | -0.008 | 129533 | 209.0    | 4                        | 12.496 | 0.000 | 152718 | 226.1         |
| Aroclor-1260             | 5     | 12.239 | -0.005 | 52739  | 195.2    | NS                       | ---    |       |        | ----          |
| Total CollAve (5 peaks): |       |        |        | 209.1  |          | Total Col2Ave (4 peaks): |        |       |        | 228.6 RPD = 9 |
| Corrected Ave (4 peaks): |       |        |        | 207.3  |          | Corrected Ave (3 peaks): |        |       |        | 222.7 RPD = 7 |
| CalAmt %D:               |       |        |        | -16.4  |          | CalAmt %D:               |        |       |        | -8.6          |

Total PCB Area Coll (5.909 - 13.792) = 2761844 Coll Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.784 - 14.017) = 2292110 Col2 Total PCB = 0.5 ppm\*

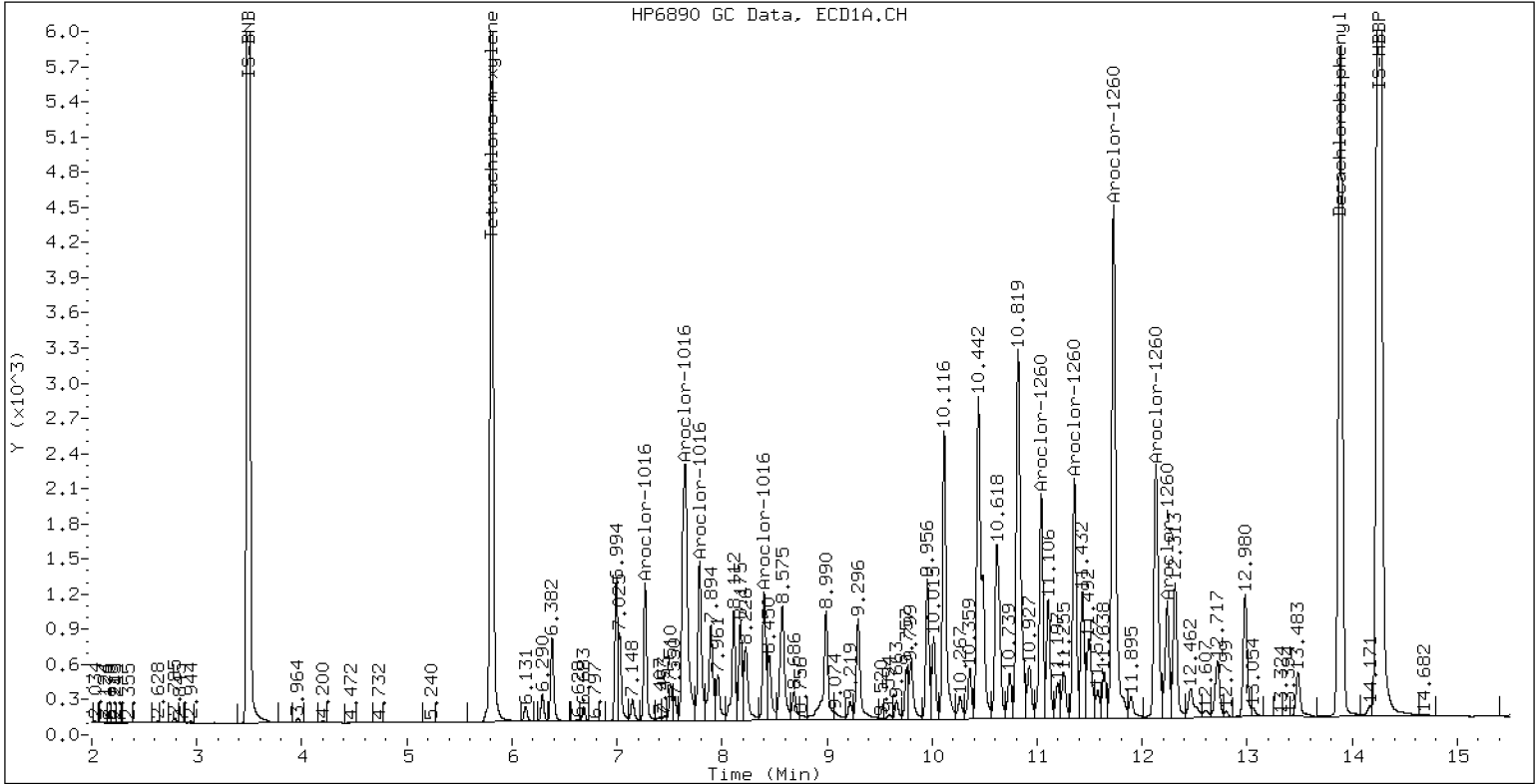
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV8

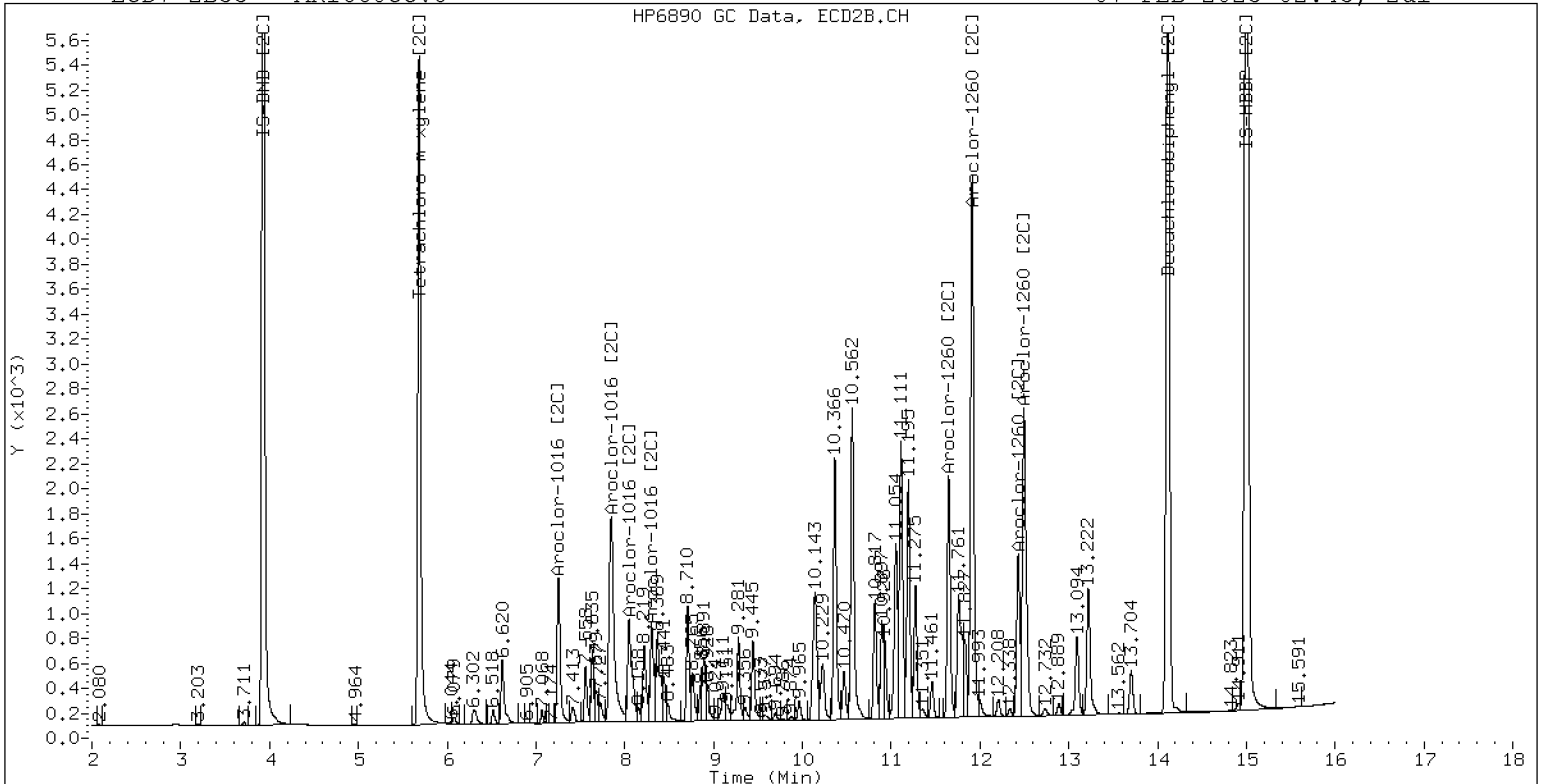
07-FEB-2023 02:43, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV8

07-FEB-2023 02:43, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE  
CONTINUING CALIBRATION CHECK  
EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GE00022</u>         |
| Lab File ID:   | <u>05052332ECD7.D</u>            | Calibration Date: | <u>05/05/2023</u>      |
| Sequence:      | <u>SLE0079</u>                   | Injection Date:   | <u>05/06/23</u>        |
| Lab Sample ID: | <u>SLE0079-SCV1</u>              | Injection Time:   | <u>03:16</u>           |
| Sequence Name: | <u>AR1660SCV1</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1016               | A    | 250.00       | 254  | 0.0477728             | 0.0484819 |     | 1.4          | +/-20 |
| Aroclor 1016 [2C]          | A    | 250.00       | 248  | 0.0545435             | 0.0542791 |     | -1.0         | +/-20 |
| Aroclor 1260               | A    | 250.00       | 285  | 0.0524306             | 0.0598047 |     | 14.2         | +/-20 |
| Aroclor 1260 [2C]          | A    | 250.00       | 284  | 0.0638471             | 0.0723577 |     | 13.6         | +/-20 |
| Decachlorobiphenyl         | A    | 40.000       | 36.9 | 0.7991406             | 0.7376338 |     | -7.7         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 36.9 | 1.2048230             | 1.1103970 |     | -7.8         | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 39.2 | 1.1360140             | 1.1141950 |     | -1.9         | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 37.2 | 1.1005470             | 1.0247960 |     | -6.9         | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052332ECD7.D  
Data file 2: /230505.b/230505.b/05052332ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660SCV  
Client ID:  
Injection Date: 06-MAY-2023 03:16  
Report Date: 05/06/2023 12:06  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |       | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|-------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift | Response | on col |      |               | on col               |
| 5.742   | -0.000 | 356595   | 5.629  | 0.000 | 185340   | 36.9   | 37.2 | 1.0           | Tetrachloro-m-xylene |
| 13.842  | 0.002  | 347188   | 14.070 | 0.002 | 384711   | 36.9   | 39.2 | 6.1           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 642284      | 6.8 |
| Hexabromobiphenyl  | 876625         | 941356      | 7.4 |
| Column 2           |                |             |     |
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 361711      | 3.6 |
| Hexabromobiphenyl  | 652984         | 690563      | 5.8 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023

<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |        |                 |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|-----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area   | Amount          |
| Aroclor-1016             | 1     | 7.213  | 0.000  | 61654  | 247.9    | 1                        | 7.205  | 0.001  | 50106  | 244.7           |
| Aroclor-1016             | 2     | 7.594  | -0.001 | 199228 | 256.2    | 2                        | 7.811  | 0.003  | 109839 | 251.7           |
| Aroclor-1016             | 3     | 7.734  | 0.001  | 89643  | 249.3    | 3                        | 8.009  | 0.004  | 48594  | 252.5           |
| Aroclor-1016             | 4     | 8.399  | 0.001  | 38714  | 261.0    | 4                        | 8.260  | 0.001  | 36878  | 241.2           |
| Total CollAve (4 peaks): |       |        |        | 253.6  |          | Total Col2Ave (4 peaks): |        |        |        | 247.5 RPD = 2   |
| Corrected Ave (3 peaks): |       |        |        | 251.1  |          | Corrected Ave (3 peaks): |        |        |        | 245.9 RPD = 2   |
| Aroclor-1221             | 1     | 4.663  | -0.000 | 436    | 9.7      | 1                        | ---    |        |        | 0.0             |
| Aroclor-1221             | 2     | 6.068  | -0.001 | 8521   | 94.0     | 2                        | 6.251  | 0.005  | 5766   | 104.3           |
| Aroclor-1221             | 3     | 6.320  | -0.001 | 41973  | 195.0    | 3                        | 6.572  | 0.000  | 23212  | 266.9           |
| Total CollAve (3 peaks): |       |        |        | 99.6   |          | Col2Ave: <3 Quant Peaks  |        |        |        |                 |
| Aroclor-1232             | 1     | 4.663  | -0.000 | 436    | 14.5     | 1                        | ---    |        |        | 0.0             |
| Aroclor-1232             | 2     | 6.068  | -0.002 | 8521   | 136.1    | 2                        | 7.205  | 0.000  | 50106  | 623.9           |
| Aroclor-1232             | 3     | 7.594  | -0.001 | 199228 | 667.9    | 3                        | 7.811  | -0.004 | 109839 | 680.8           |
| Aroclor-1232             | 4     | 8.526  | -0.001 | 85985  | 673.5    | 4                        | 8.667  | -0.003 | 34670  | 742.1           |
| Total CollAve (4 peaks): |       |        |        | 373.0  |          | Total Col2Ave (3 peaks): |        |        |        | 682.3 RPD = 59* |
| Corrected Ave (3 peaks): |       |        |        | 272.8  |          | Corrected Ave: < 3 Peaks |        |        |        |                 |
| Aroclor-1242             | 1     | 7.213  | 0.001  | 61654  | 304.6    | 1                        | 7.205  | 0.001  | 50106  | 310.0           |
| Aroclor-1242             | 2     | 7.594  | -0.001 | 199228 | 310.7    | 2                        | 7.811  | -0.002 | 109839 | 319.4           |
| Aroclor-1242             | 3     | 8.399  | 0.000  | 38714  | 312.1    | 3                        | 9.069  | -0.054 | 21513  | 195.1           |
| Aroclor-1242             | 4     | 8.526  | 0.001  | 85985  | 299.5    | 4                        | 9.537  | -0.013 | 1824   | 13.7            |
| Total CollAve (4 peaks): |       |        |        | 306.7  |          | Total Col2Ave (4 peaks): |        |        |        | 209.6 RPD = 38  |
| Corrected Ave (3 peaks): |       |        |        | 304.9  |          | Corrected Ave (3 peaks): |        |        |        | 172.9 RPD = 55* |
| Aroclor-1248             | 1     | 8.399  | -0.000 | 38714  | 236.2    | 1                        | 8.260  | 0.000  | 36878  | 214.3           |
| Aroclor-1248             | 2     | 8.526  | 0.001  | 85985  | 201.8    | 2                        | 8.667  | -0.001 | 34670  | 190.7           |
| Aroclor-1248             | 3     | 8.941  | -0.003 | 81615  | 99.6     | 3                        | 9.069  | -0.051 | 21513  | 101.0           |
| Aroclor-1248             | 4     | 9.249  | 0.006  | 52526  | 125.8    | 4                        | 9.537  | -0.008 | 1824   | 7.1             |
| Total CollAve (4 peaks): |       |        |        | 165.8  |          | Total Col2Ave (4 peaks): |        |        |        | 128.3 RPD = 26  |
| Corrected Ave (3 peaks): |       |        |        | 142.4  |          | Corrected Ave (3 peaks): |        |        |        | 99.6 RPD = 35   |
| Aroclor-1254             | 1     | 9.249  | 0.003  | 52526  | 79.6     | 1                        | 9.405  | 0.001  | 24726  | 90.0            |
| Aroclor-1254             | 2     | ---    |        |        | 0.0      | 2                        | 9.537  | 0.038  | 1824   | 11.2            |
| Aroclor-1254             | 3     | 9.619  | 0.001  | 7081   | 16.6     | 3                        | 9.926  | 0.002  | 3128   | 14.0            |
| Aroclor-1254             | 4     | 9.756  | 0.001  | 21856  | 26.2     | 4                        | 10.101 | 0.023  | 62581  | 128.7           |
| Aroclor-1254             | 5     | 10.069 | -0.057 | 159796 | 317.0    | 5                        | 10.324 | -0.004 | 85433  | 177.1           |
| Total CollAve (4 peaks): |       |        |        | 109.8  |          | Total Col2Ave (5 peaks): |        |        |        | 84.2 RPD = 26   |
| Corrected Ave (3 peaks): |       |        |        | 40.8   |          | Corrected Ave (4 peaks): |        |        |        | 61.0 RPD = 40   |
| Aroclor-1260             | 1     | 10.995 | 0.001  | 145767 | 292.8    | 1                        | 11.605 | -0.000 | 99761  | 272.0           |
| Aroclor-1260             | 2     | 11.311 | 0.001  | 142028 | 289.1    | 2                        | 11.872 | 0.000  | 273505 | 285.1           |
| Aroclor-1260             | 3     | 11.686 | 0.000  | 354468 | 288.1    | 3                        | 12.389 | 0.001  | 70545  | 296.8           |
| Aroclor-1260             | 4     | 12.092 | 0.002  | 161281 | 267.6    | 4                        | 12.455 | -0.000 | 180783 | 282.1           |
| Aroclor-1260             | 5     | 12.194 | 0.001  | 76105  | 289.6    | NS                       | ---    |        |        | ----            |
| Total CollAve (5 peaks): |       |        |        | 285.5  |          | Total Col2Ave (4 peaks): |        |        |        | 284.0 RPD = 1   |
| Corrected Ave (4 peaks): |       |        |        | 283.6  |          | Corrected Ave (3 peaks): |        |        |        | 279.8 RPD = 1   |
| Aroclor-1262             | 1     | 10.777 | -0.001 | 215850 | 506.9    | 1                        | 11.153 | -0.001 | 104059 | 186.0           |
| Aroclor-1262             | 2     | 12.194 | -0.000 | 76105  | 127.1    | 2                        | 11.605 | 0.001  | 99761  | 211.4           |
| Aroclor-1262             | 3     | 12.271 | 0.001  | 94628  | 147.0    | 3                        | 12.389 | 0.003  | 70545  | 136.8           |
| Aroclor-1262             | 4     | 12.939 | -0.000 | 78852  | 150.3    | 4                        | 12.455 | -0.001 | 180783 | 215.1           |
| Total CollAve (4 peaks): |       |        |        | 232.8  |          | Total Col2Ave (4 peaks): |        |        |        | 187.3 RPD = 22  |
| Corrected Ave (3 peaks): |       |        |        | 141.5  |          | Corrected Ave (3 peaks): |        |        |        | 178.1 RPD = 23  |
| Aroclor-1268             | 1     | 12.194 | -0.001 | 76105  | 50.7     | 1                        | 12.389 | 0.004  | 70545  | 54.0            |
| Aroclor-1268             | 2     | 12.271 | 0.003  | 94628  | 63.5     | 2                        | 12.455 | 0.003  | 180783 | 128.7           |
| Aroclor-1268             | 3     | 12.675 | 0.026  | 38830  | 32.4     | 3                        | 12.844 | 0.001  | 3082   | 2.6             |
| Aroclor-1268             | 4     | 13.440 | 0.003  | 19986  | 5.8      | 4                        | 13.661 | -0.002 | 14882  | 3.9             |
| Total CollAve (4 peaks): |       |        |        | 38.1   |          | Total Col2Ave (4 peaks): |        |        |        | 47.3 RPD = 21   |
| Corrected Ave (3 peaks): |       |        |        | 29.6   |          | Corrected Ave (3 peaks): |        |        |        | 20.1 RPD = 38   |

Total PCB Area Col1 (5.842 - 13.740) = 3657118 Col1 Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 2255286 Col2 Total PCB = 0.5 ppm\*

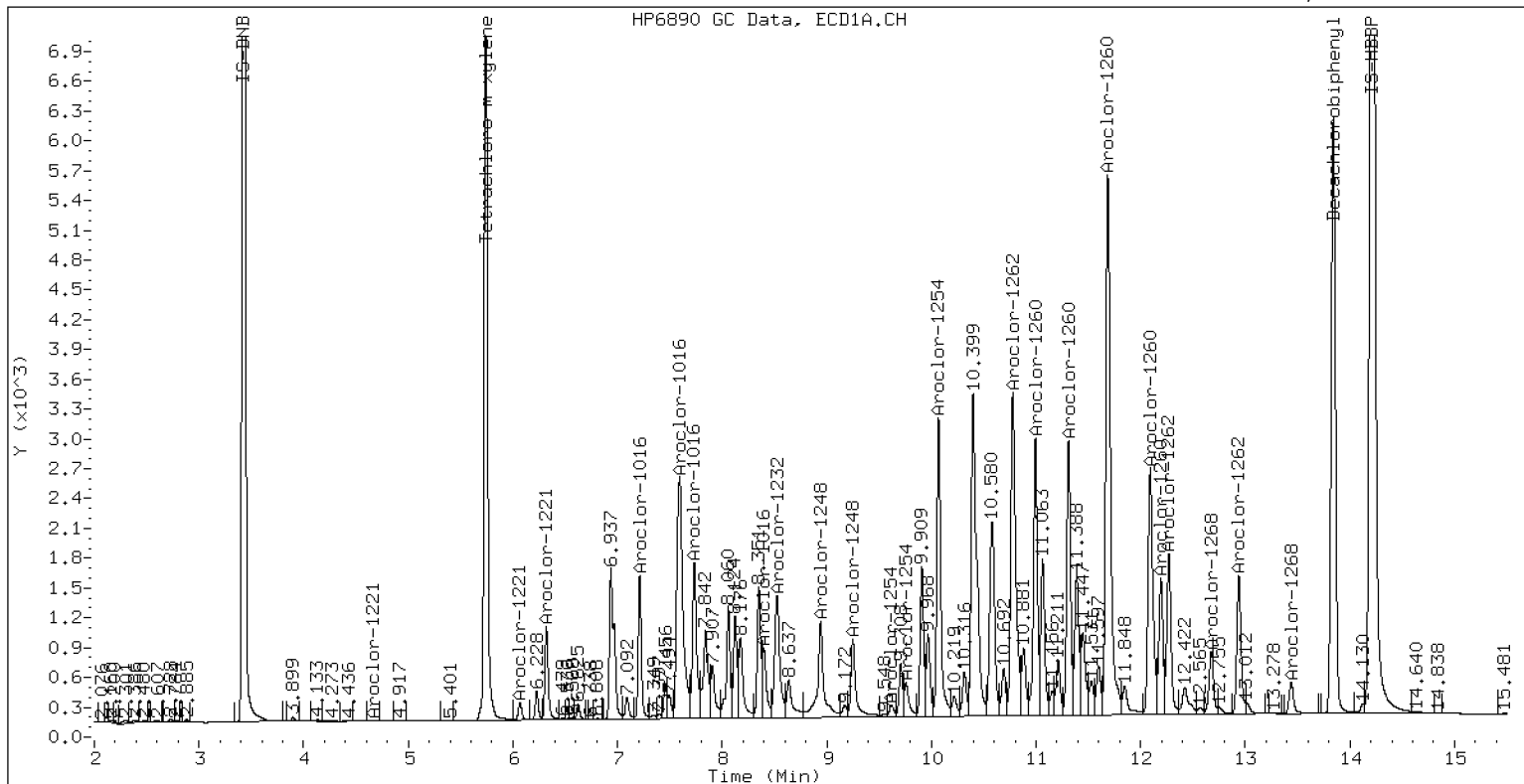
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV

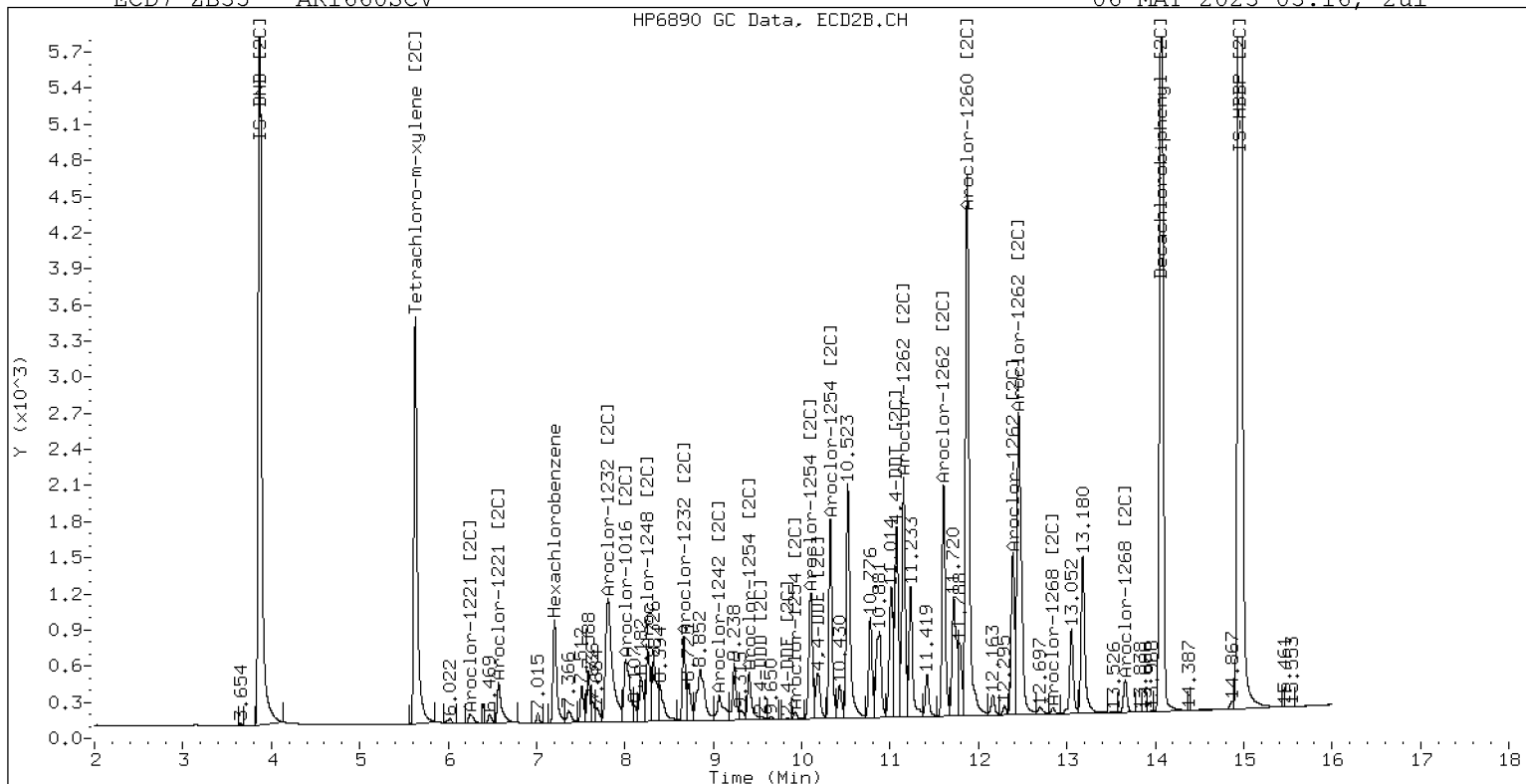
06-MAY-2023 03:16, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV

06-MAY-2023 03:16, 2u1



ZB-35 Manual Integration: NO



**SECOND-SOURCE  
CONTINUING CALIBRATION CHECK  
EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GE00022</u>         |
| Lab File ID:   | <u>05052333ECD7.D</u>            | Calibration Date: | <u>05/05/2023</u>      |
| Sequence:      | <u>SLE0079</u>                   | Injection Date:   | <u>05/06/23</u>        |
| Lab Sample ID: | <u>SLE0079-SCV2</u>              | Injection Time:   | <u>03:36</u>           |
| Sequence Name: | <u>AR1242SCV2</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1242               | A    | 250.00       | 237  | 0.0390737             | 0.0365795 |     | -5.1         | +/-20 |
| Aroclor 1242 [2C]          | A    | 250.00       | 230  | 0.0413965             | 0.0378029 |     | -7.9         | +/-20 |
| Decachlorobiphenyl         | A    | 40.000       | 40.9 | 0.7991406             | 0.8167325 |     | 2.2          | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 32.8 | 1.2048230             | 0.9873365 |     | -18.1        | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 44.0 | 1.1360140             | 1.2491680 |     | 10.0         | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 33.4 | 1.1005470             | 0.9188596 |     | -16.5        | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052333ECD7.D  
Data file 2: /230505.b/230505.b/05052333ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1242SCV  
Client ID:  
Injection Date: 06-MAY-2023 03:36  
Report Date: 05/06/2023 12:06  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.744  | 0.002         | 319899   | 5.630  | 0.002          | 167866   | 32.8       | 33.4        | 1.9 | Tetrachloro-m-xylene |
| 13.842 | 0.002         | 398699   | 14.069 | 0.001          | 434332   | 40.9       | 44.0        | 7.3 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 648004      | 7.7  |
| Hexabromobiphenyl  | 876625         | 976327      | 11.4 |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 365379      | 4.6 |
| Hexabromobiphenyl  | 652984         | 695394      | 6.5 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |       |                 |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|-------|-----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area  | Amount          |
| Aroclor-1016             | 1     | 7.213  | 0.001  | 47446  | 189.1    | 1                        | 7.205  | 0.001  | 36469 | 176.3           |
| Aroclor-1016             | 2     | 7.594  | -0.000 | 147684 | 188.2    | 2                        | 7.814  | 0.007  | 77885 | 176.7           |
| Aroclor-1016             | 3     | 7.735  | 0.002  | 67175  | 185.2    | 3                        | 8.012  | 0.006  | 38400 | 197.5           |
| Aroclor-1016             | 4     | 8.398  | 0.000  | 30565  | 204.3    | 4                        | 8.261  | 0.002  | 27551 | 178.4           |
| Total CollAve (4 peaks): |       |        |        | 191.7  |          | Total Col2Ave (4 peaks): |        |        |       | 182.2 RPD = 5   |
| Corrected Ave (3 peaks): |       |        |        | 187.5  |          | Corrected Ave (3 peaks): |        |        |       | 177.1 RPD = 6   |
| Aroclor-1221             | 1     | 4.666  | 0.002  | 870    | 19.1     | 1                        | ---    |        |       | 0.0             |
| Aroclor-1221             | 2     | 6.069  | 0.000  | 7118   | 77.8     | 2                        | 6.257  | 0.011  | 4359  | 78.0            |
| Aroclor-1221             | 3     | 6.322  | 0.001  | 32969  | 151.8    | 3                        | 6.573  | 0.001  | 16609 | 189.0           |
| Total CollAve (3 peaks): |       |        |        | 82.9   |          | Col2Ave: <3 Quant Peaks  |        |        |       |                 |
| Aroclor-1232             | 1     | 4.666  | 0.002  | 870    | 28.7     | 1                        | ---    |        |       | 0.0             |
| Aroclor-1232             | 2     | 6.069  | 0.000  | 7118   | 112.7    | 2                        | 7.205  | -0.000 | 36469 | 449.5           |
| Aroclor-1232             | 3     | 7.594  | -0.001 | 147684 | 490.8    | 3                        | 7.814  | -0.001 | 77885 | 477.9           |
| Aroclor-1232             | 4     | 8.526  | -0.000 | 70601  | 548.1    | 4                        | 8.668  | -0.001 | 25417 | 538.5           |
| Total CollAve (4 peaks): |       |        |        | 295.1  |          | Total Col2Ave (3 peaks): |        |        |       | 488.7 RPD = 49* |
| Corrected Ave (3 peaks): |       |        |        | 210.7  |          | Corrected Ave: < 3 Peaks |        |        |       |                 |
| Aroclor-1242             | 1     | 7.213  | 0.001  | 47446  | 232.4    | 1                        | 7.205  | 0.001  | 36469 | 223.3           |
| Aroclor-1242             | 2     | 7.594  | -0.000 | 147684 | 228.2    | 2                        | 7.814  | 0.002  | 77885 | 224.2           |
| Aroclor-1242             | 3     | 8.398  | 0.000  | 30565  | 244.2    | 3                        | 9.124  | 0.001  | 25864 | 232.2           |
| Aroclor-1242             | 4     | 8.526  | 0.002  | 70601  | 243.8    | 4                        | 9.552  | 0.001  | 32437 | 241.7           |
| Total CollAve (4 peaks): |       |        |        | 237.2  |          | Total Col2Ave (4 peaks): |        |        |       | 230.4 RPD = 3   |
| Corrected Ave (3 peaks): |       |        |        | 234.8  |          | Corrected Ave (3 peaks): |        |        |       | 226.6 RPD = 4   |
| Aroclor-1248             | 1     | 8.398  | -0.001 | 30565  | 184.8    | 1                        | 8.261  | 0.001  | 27551 | 158.5           |
| Aroclor-1248             | 2     | 8.526  | 0.002  | 70601  | 164.3    | 2                        | 8.668  | 0.001  | 25417 | 138.4           |
| Aroclor-1248             | 3     | 8.946  | 0.002  | 172847 | 209.1    | 3                        | 9.124  | 0.004  | 25864 | 120.2           |
| Aroclor-1248             | 4     | 9.243  | -0.001 | 87363  | 207.3    | 4                        | 9.552  | 0.006  | 32437 | 125.7           |
| Total CollAve (4 peaks): |       |        |        | 191.4  |          | Total Col2Ave (4 peaks): |        |        |       | 135.7 RPD = 34  |
| Corrected Ave (3 peaks): |       |        |        | 185.5  |          | Corrected Ave (3 peaks): |        |        |       | 128.1 RPD = 37  |
| Aroclor-1254             | 1     | 9.243  | -0.004 | 87363  | 131.2    | 1                        | 9.406  | 0.002  | 13247 | 47.7            |
| Aroclor-1254             | 2     | 9.326  | 0.001  | 28949  | 96.7     | 2                        | 9.552  | 0.053  | 32437 | 196.7           |
| Aroclor-1254             | 3     | 9.622  | 0.004  | 20780  | 48.3     | 3                        | 9.927  | 0.003  | 10002 | 44.5            |
| Aroclor-1254             | 4     | 9.762  | 0.006  | 35470  | 42.1     | 4                        | 10.082 | 0.005  | 19933 | 40.6            |
| Aroclor-1254             | 5     | 10.140 | 0.015  | 28075  | 55.2     | 5                        | 10.341 | 0.013  | 19432 | 39.9            |
| Total CollAve (5 peaks): |       |        |        | 74.7   |          | Total Col2Ave (5 peaks): |        |        |       | 73.9 RPD = 1    |
| Corrected Ave (4 peaks): |       |        |        | 60.6   |          | Corrected Ave (4 peaks): |        |        |       | 43.2 RPD = 34   |
| Aroclor-1260             | 1     | 10.998 | 0.005  | 3609   | 7.0      | 1                        | 11.618 | 0.012  | 2137  | 5.8             |
| Aroclor-1260             | 2     | 11.317 | 0.007  | 3837   | 7.5      | 2                        | 11.879 | 0.007  | 1437  | 1.5             |
| Aroclor-1260             | 3     | 11.765 | 0.080  | 33905  | 26.6     | 3                        | 12.382 | -0.006 | 12460 | 52.1            |
| Aroclor-1260             | 4     | 12.097 | 0.007  | 9099   | 14.6     | 4                        | ---    |        |       | 0.0             |
| Aroclor-1260             | 5     | 12.272 | 0.079  | 2060   | 7.6      | NS                       | ---    |        |       | ---             |
| Total CollAve (5 peaks): |       |        |        | 12.6   |          | Total Col2Ave (3 peaks): |        |        |       | 19.8 RPD = 44*  |
| Corrected Ave (4 peaks): |       |        |        | 9.2    |          | Corrected Ave: < 3 Peaks |        |        |       |                 |
| Aroclor-1262             | 1     | 10.787 | 0.009  | 24040  | 54.4     | 1                        | 11.078 | -0.075 | 7864  | 14.0            |
| Aroclor-1262             | 2     | 12.272 | 0.077  | 2060   | 3.3      | 2                        | 11.618 | 0.013  | 2137  | 4.5             |
| Aroclor-1262             | 3     | ---    |        |        | 0.0      | 3                        | 12.382 | -0.004 | 12460 | 24.0            |
| Aroclor-1262             | 4     | 12.937 | -0.002 | 16041  | 29.5     | 4                        | ---    |        |       | 0.0             |
| Total CollAve (3 peaks): |       |        |        | 29.1   |          | Total Col2Ave (3 peaks): |        |        |       | 14.1 RPD = 69*  |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |       |                 |
| Aroclor-1268             | 1     | 12.272 | 0.076  | 2060   | 1.3      | 1                        | 12.382 | -0.003 | 12460 | 9.5             |
| Aroclor-1268             | 2     | ---    |        |        | 0.0      | 2                        | ---    |        |       | 0.0             |
| Aroclor-1268             | 3     | 12.649 | 0.001  | 4324   | 3.5      | 3                        | 12.845 | 0.002  | 951   | 0.8             |
| Aroclor-1268             | 4     | 13.442 | 0.005  | 15801  | 4.4      | 4                        | 13.628 | -0.035 | 6512  | 1.7             |
| Total CollAve (3 peaks): |       |        |        | 3.1    |          | Total Col2Ave (3 peaks): |        |        |       | 4.0 RPD = 25    |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |       |                 |

Total PCB Area Col1 (5.842 - 13.740) = 1489022 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 667658 Col2 Total PCB = 0.2 ppm\*

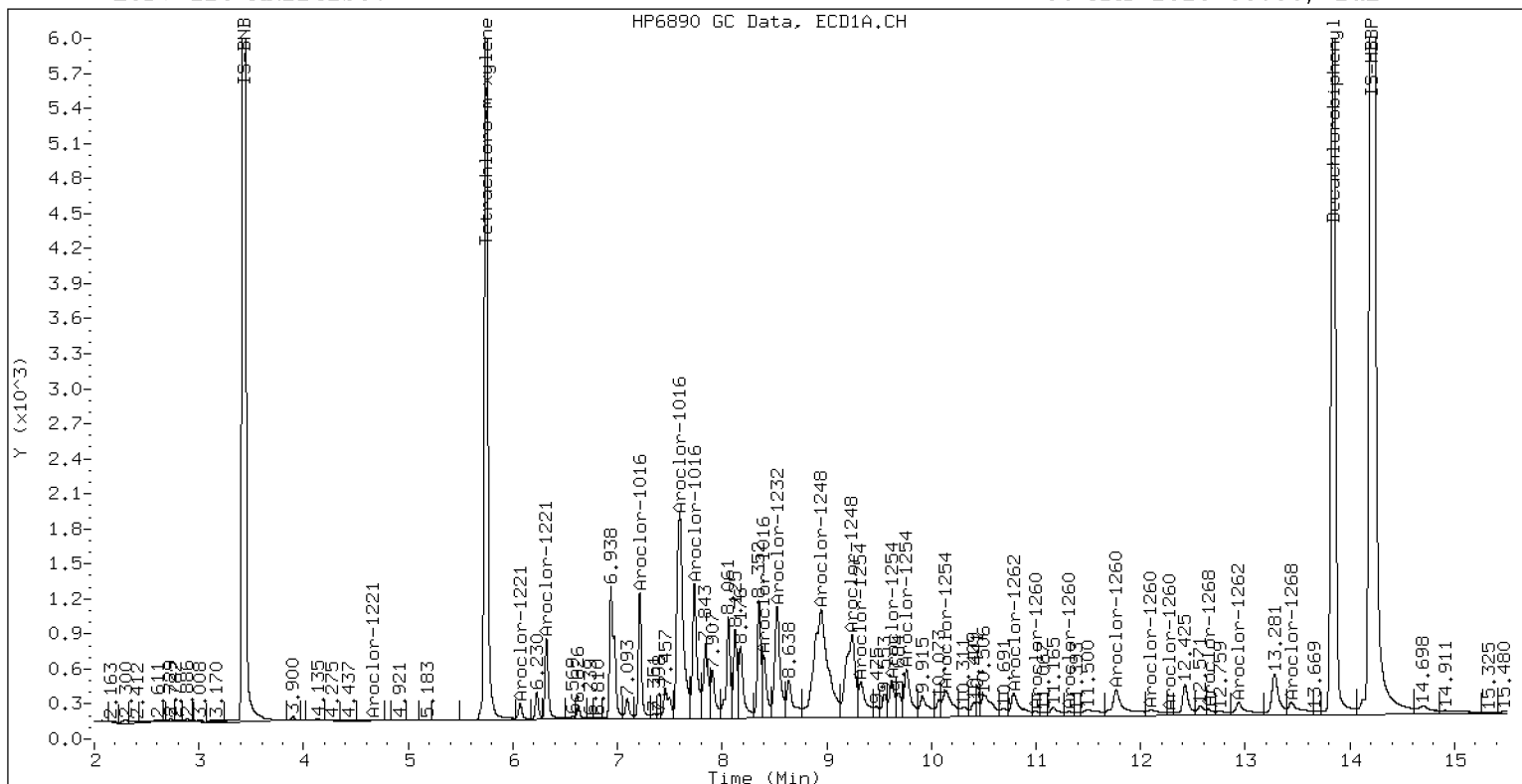
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV

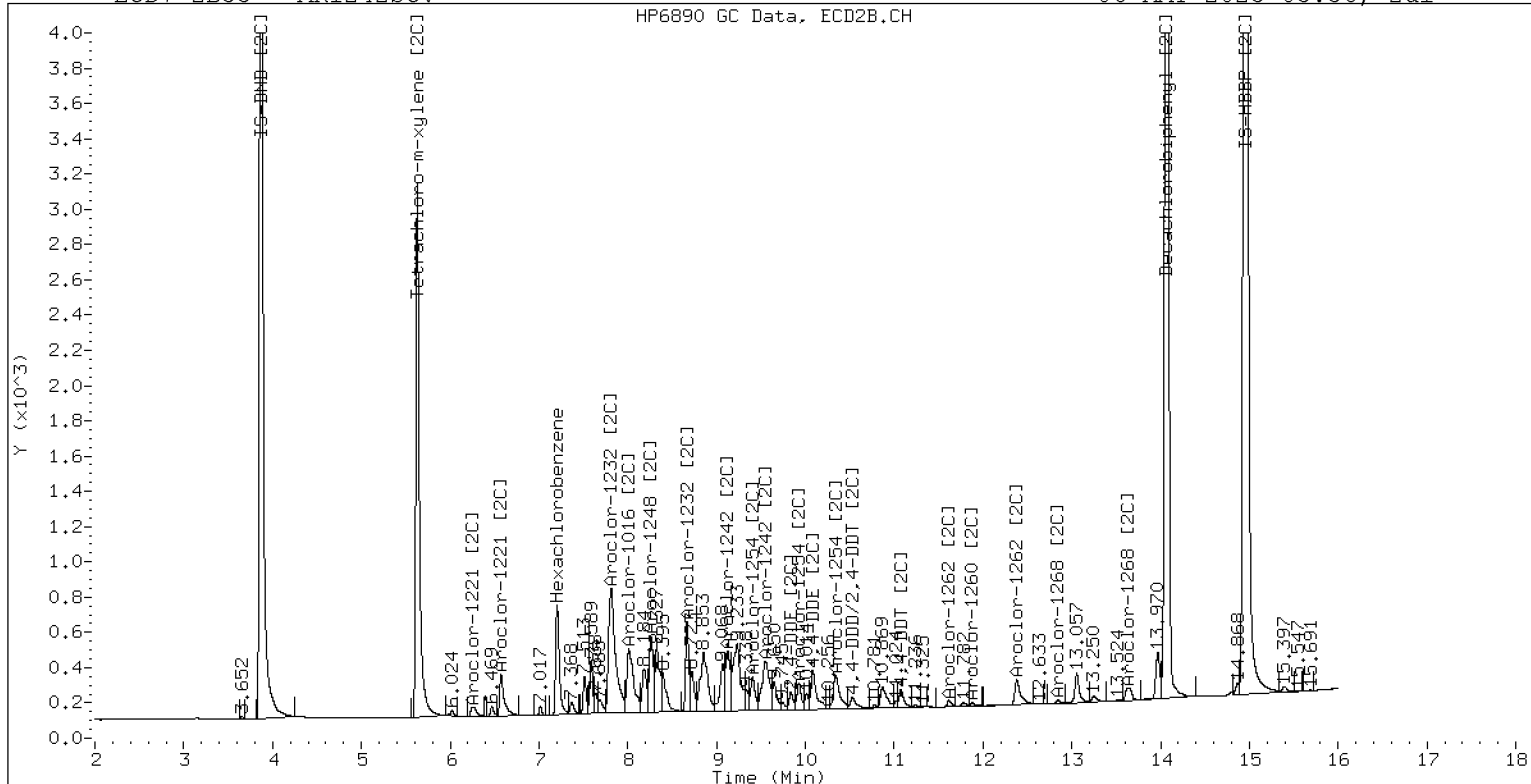
06-MAY-2023 03:36, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV

06-MAY-2023 03:36, 2ul

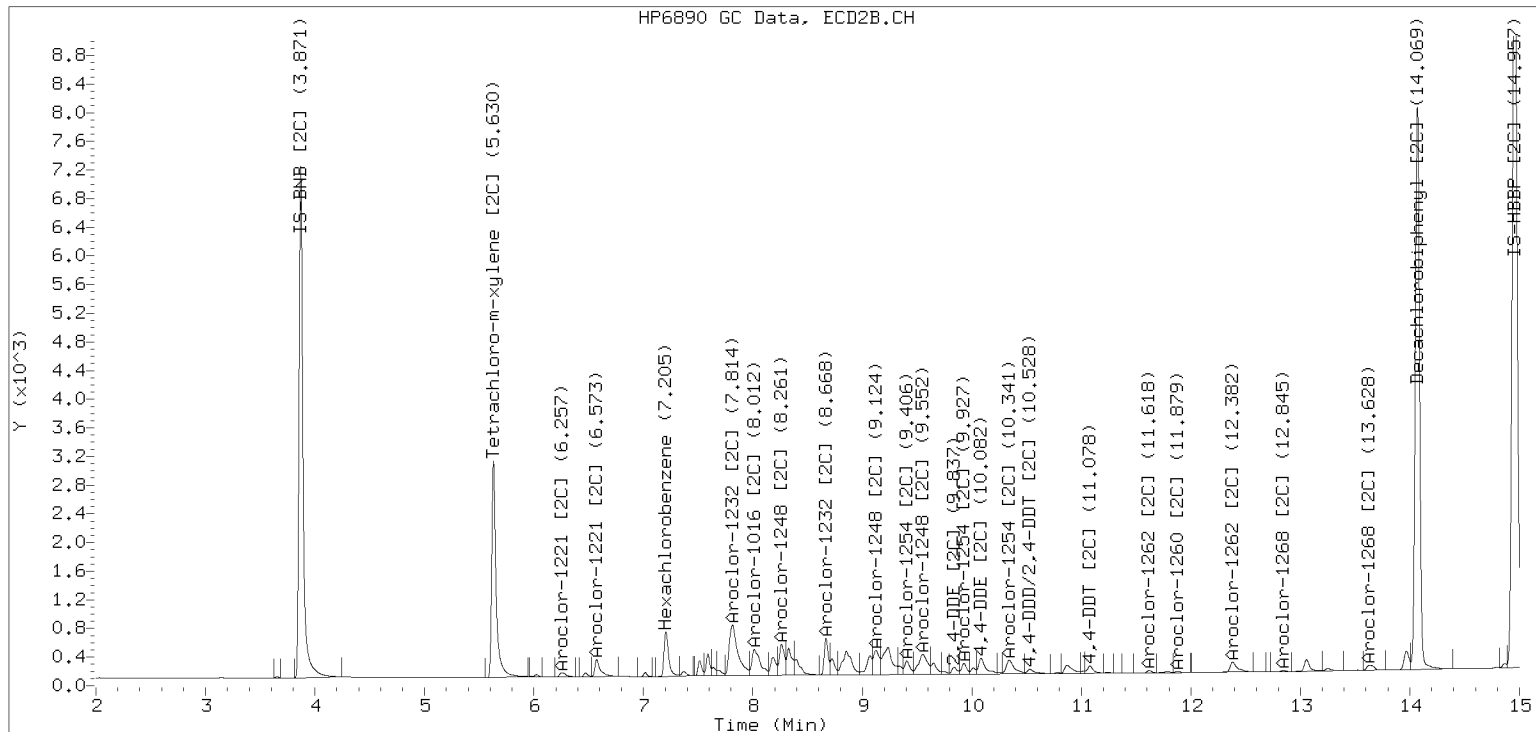


ZB-35 Manual Integration: NO

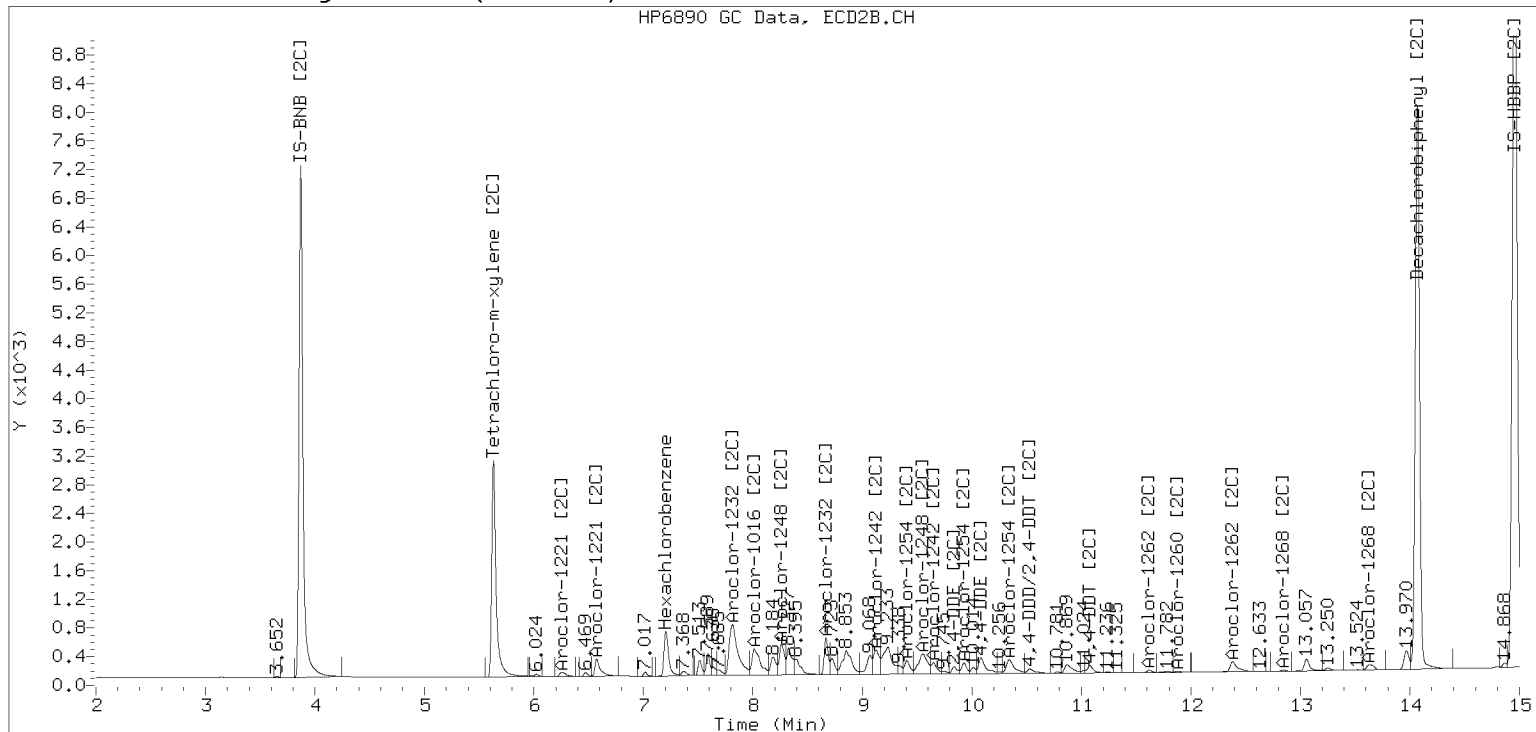
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230505.b/230505.b/05052333ECD7.D Injection Date: 06-MAY-2023

Manual Integration (After)



Processed Integration (Before)





**SECOND-SOURCE  
CONTINUING CALIBRATION CHECK  
EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GE00022</u>         |
| Lab File ID:   | <u>05052334ECD7.D</u>            | Calibration Date: | <u>05/05/2023</u>      |
| Sequence:      | <u>SLE0079</u>                   | Injection Date:   | <u>05/06/23</u>        |
| Lab Sample ID: | <u>SLE0079-SCV3</u>              | Injection Time:   | <u>03:57</u>           |
| Sequence Name: | <u>AR1248SCV3</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1248               | A    | 250.00       | 251  | 0.0568879             | 0.0571636 |     | 0.5          | +/-20 |
| Aroclor 1248 [2C]          | A    | 250.00       | 249  | 0.0454726             | 0.0453430 |     | -0.3         | +/-20 |
| Decachlorobiphenyl         | A    | 40.000       | 35.7 | 0.7991406             | 0.7130963 |     | -10.8        | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 36.8 | 1.2048230             | 1.1082640 |     | -8.0         | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 38.0 | 1.1360140             | 1.0789920 |     | -5.0         | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 37.7 | 1.1005470             | 1.0375410 |     | -5.7         | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052334ECD7.D  
Data file 2: /230505.b/230505.b/05052334ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1248SCV  
Client ID:  
Injection Date: 06-MAY-2023 03:57  
Report Date: 05/06/2023 12:07  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |       | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|-------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift | Response | on col |      |               | on col               |
| 5.741   | -0.001 | 356328   | 5.629  | 0.000 | 186552   | 36.8   | 37.7 | 2.5           | Tetrachloro-m-xylene |
| 13.842  | 0.001  | 339452   | 14.070 | 0.002 | 373861   | 35.7   | 38.0 | 6.2           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |     |
|--------------------|----------------|-------------|-----|
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 643038      | 6.9 |
| Hexabromobiphenyl  | 876625         | 952051      | 8.6 |
| Column 2           |                |             |     |
| Standard Cpnd      | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 359604      | 3.0 |
| Hexabromobiphenyl  | 652984         | 692982      | 6.1 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |       |                |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|-------|----------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area  | Amount         |
| Aroclor-1016             | 1     | 7.212  | 0.000  | 19871  | 79.8     | 1                        | 7.203  | -0.001 | 18843 | 92.6           |
| Aroclor-1016             | 2     | 7.589  | -0.006 | 95111  | 122.2    | 2                        | 7.812  | 0.005  | 52352 | 120.7          |
| Aroclor-1016             | 3     | 7.736  | 0.003  | 37565  | 104.4    | 3                        | 8.012  | 0.006  | 8263  | 43.2           |
| Aroclor-1016             | 4     | 8.399  | 0.002  | 41542  | 279.7    | 4                        | 8.260  | 0.001  | 42833 | 281.8          |
| Total CollAve (4 peaks): |       |        |        | 146.5  |          | Total Col2Ave (4 peaks): |        |        |       | 134.6 RPD = 9  |
| Corrected Ave (3 peaks): |       |        |        | 102.1  |          | Corrected Ave (3 peaks): |        |        |       | 85.5 RPD = 18  |
| Aroclor-1221             | 1     | ---    |        |        | 0.0      | 1                        | ---    |        |       | 0.0            |
| Aroclor-1221             | 2     | 6.066  | -0.003 | 351    | 3.9      | 2                        | 6.275  | 0.029  | 1573  | 28.6           |
| Aroclor-1221             | 3     | 6.320  | -0.001 | 3509   | 16.3     | 3                        | 6.576  | 0.004  | 967   | 11.2           |
| CollAve: <3 Quant Peaks  |       |        |        |        |          | Col2Ave: <3 Quant Peaks  |        |        |       |                |
| Aroclor-1232             | 1     | ---    |        |        | 0.0      | 1                        | ---    |        |       | 0.0            |
| Aroclor-1232             | 2     | 6.066  | -0.003 | 351    | 5.6      | 2                        | 7.203  | -0.001 | 18843 | 236.0          |
| Aroclor-1232             | 3     | 7.589  | -0.006 | 95111  | 318.5    | 3                        | 7.812  | -0.002 | 52352 | 326.4          |
| Aroclor-1232             | 4     | 8.524  | -0.002 | 105782 | 827.6    | 4                        | 8.667  | -0.002 | 44962 | 968.0          |
| Total CollAve (3 peaks): |       |        |        | 383.9  |          | Total Col2Ave (3 peaks): |        |        |       | 510.1 RPD = 28 |
| Corrected Ave: < 3 Peaks |       |        |        |        |          | Corrected Ave: < 3 Peaks |        |        |       |                |
| Aroclor-1242             | 1     | 7.212  | 0.000  | 19871  | 98.1     | 1                        | 7.203  | -0.000 | 18843 | 117.2          |
| Aroclor-1242             | 2     | 7.589  | -0.006 | 95111  | 148.1    | 2                        | 7.812  | -0.000 | 52352 | 153.1          |
| Aroclor-1242             | 3     | 8.399  | 0.001  | 41542  | 334.5    | 3                        | 9.120  | -0.003 | 52681 | 480.6          |
| Aroclor-1242             | 4     | 8.524  | -0.000 | 105782 | 368.1    | 4                        | 9.548  | -0.002 | 63343 | 479.5          |
| Total CollAve (4 peaks): |       |        |        | 237.2  |          | Total Col2Ave (4 peaks): |        |        |       | 307.6 RPD = 26 |
| Corrected Ave (3 peaks): |       |        |        | 193.6  |          | Corrected Ave (3 peaks): |        |        |       | 250.0 RPD = 25 |
| Aroclor-1248             | 1     | 8.399  | 0.001  | 41542  | 253.1    | 1                        | 8.260  | -0.001 | 42833 | 250.4          |
| Aroclor-1248             | 2     | 8.524  | -0.000 | 105782 | 248.0    | 2                        | 8.667  | 0.000  | 44962 | 248.8          |
| Aroclor-1248             | 3     | 8.944  | -0.000 | 206928 | 252.3    | 3                        | 9.120  | -0.000 | 52681 | 248.7          |
| Aroclor-1248             | 4     | 9.242  | -0.001 | 105227 | 251.7    | 4                        | 9.548  | 0.002  | 63343 | 249.4          |
| Total CollAve (4 peaks): |       |        |        | 251.3  |          | Total Col2Ave (4 peaks): |        |        |       | 249.3 RPD = 1  |
| Corrected Ave (3 peaks): |       |        |        | 250.6  |          | Corrected Ave (3 peaks): |        |        |       | 249.0 RPD = 1  |
| Aroclor-1254             | 1     | 9.242  | -0.004 | 105227 | 159.2    | 1                        | 9.404  | 0.000  | 25835 | 94.6           |
| Aroclor-1254             | 2     | 9.324  | -0.001 | 51326  | 172.8    | 2                        | 9.548  | 0.049  | 63343 | 390.3          |
| Aroclor-1254             | 3     | 9.619  | 0.001  | 41394  | 97.0     | 3                        | 9.925  | 0.001  | 22609 | 102.1          |
| Aroclor-1254             | 4     | 9.759  | 0.003  | 72223  | 86.4     | 4                        | 10.079 | 0.001  | 43816 | 90.7           |
| Aroclor-1254             | 5     | 10.135 | 0.010  | 49936  | 98.9     | 5                        | 10.345 | 0.016  | 42513 | 88.7           |
| Total CollAve (5 peaks): |       |        |        | 122.9  |          | Total Col2Ave (5 peaks): |        |        |       | 153.3 RPD = 22 |
| Corrected Ave (4 peaks): |       |        |        | 110.4  |          | Corrected Ave (4 peaks): |        |        |       | 94.0 RPD = 16  |
| Aroclor-1260             | 1     | 10.998 | 0.005  | 1863   | 3.7      | 1                        | 11.617 | 0.011  | 2599  | 7.1            |
| Aroclor-1260             | 2     | 11.314 | 0.004  | 1152   | 2.3      | 2                        | 11.877 | 0.005  | 1951  | 2.0            |
| Aroclor-1260             | 3     | 11.695 | 0.009  | 1829   | 1.5      | 3                        | 12.389 | 0.001  | 857   | 3.6            |
| Aroclor-1260             | 4     | 12.097 | 0.007  | 1266   | 2.1      | 4                        | 12.458 | 0.003  | 1302  | 2.0            |
| Aroclor-1260             | 5     | 12.195 | 0.002  | 464    | 1.7      | NS                       | ---    |        |       | ----           |
| Total CollAve (5 peaks): |       |        |        | 2.3    |          | Total Col2Ave (4 peaks): |        |        |       | 3.7 RPD = 48*  |
| Corrected Ave (4 peaks): |       |        |        | 1.9    |          | Corrected Ave (3 peaks): |        |        |       | 2.5 RPD = 29   |
| Aroclor-1262             | 1     | 10.784 | 0.005  | 15405  | 35.8     | 1                        | 11.077 | -0.077 | 9003  | 16.0           |
| Aroclor-1262             | 2     | 12.195 | 0.000  | 464    | 0.8      | 2                        | 11.617 | 0.012  | 2599  | 5.5            |
| Aroclor-1262             | 3     | 12.271 | 0.002  | 489    | 0.8      | 3                        | 12.389 | 0.003  | 857   | 1.7            |
| Aroclor-1262             | 4     | 12.940 | 0.001  | 1638   | 3.1      | 4                        | 12.458 | 0.002  | 1302  | 1.5            |
| Total CollAve (4 peaks): |       |        |        | 10.1   |          | Total Col2Ave (4 peaks): |        |        |       | 6.2 RPD = 48*  |
| Corrected Ave (3 peaks): |       |        |        | 1.5    |          | Corrected Ave (3 peaks): |        |        |       | 2.9 RPD = 61*  |
| Aroclor-1268             | 1     | 12.195 | -0.001 | 464    | 0.3      | 1                        | 12.389 | 0.004  | 857   | 0.7            |
| Aroclor-1268             | 2     | 12.271 | 0.003  | 489    | 0.3      | 2                        | 12.458 | 0.006  | 1302  | 0.9            |
| Aroclor-1268             | 3     | 12.649 | 0.001  | 1831   | 1.5      | 3                        | 12.845 | 0.002  | 676   | 0.6            |
| Aroclor-1268             | 4     | 13.443 | 0.006  | 5387   | 1.6      | 4                        | 13.661 | -0.003 | 2707  | 0.7            |
| Total CollAve (4 peaks): |       |        |        | 0.9    |          | Total Col2Ave (4 peaks): |        |        |       | 0.7 RPD = 26   |
| Corrected Ave (3 peaks): |       |        |        | 0.7    |          | Corrected Ave (3 peaks): |        |        |       | 0.6 RPD = 11   |



Total PCB Area Col1 (5.842 - 13.740) = 1634238 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 876760 Col2 Total PCB = 0.2 ppm\*

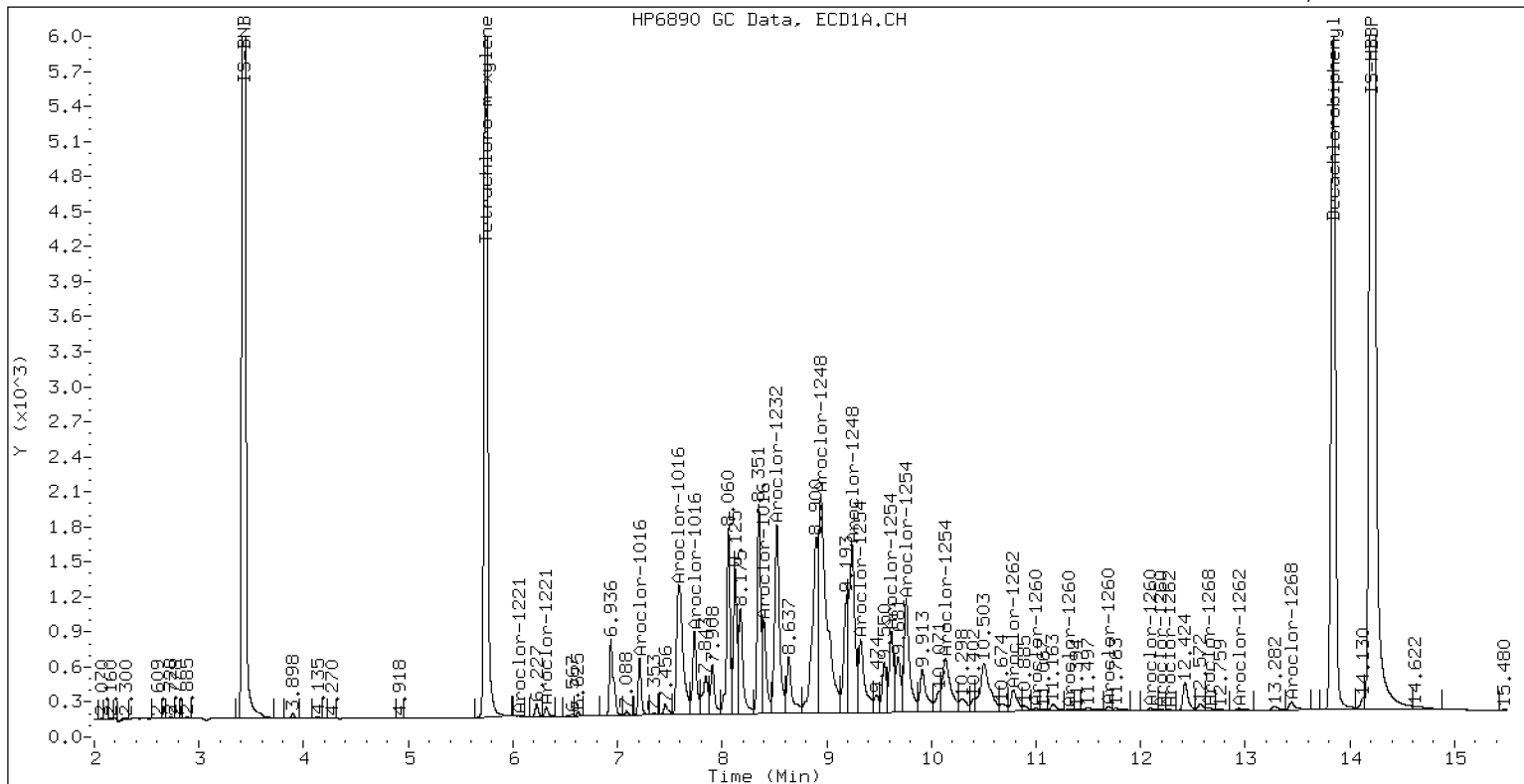
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV

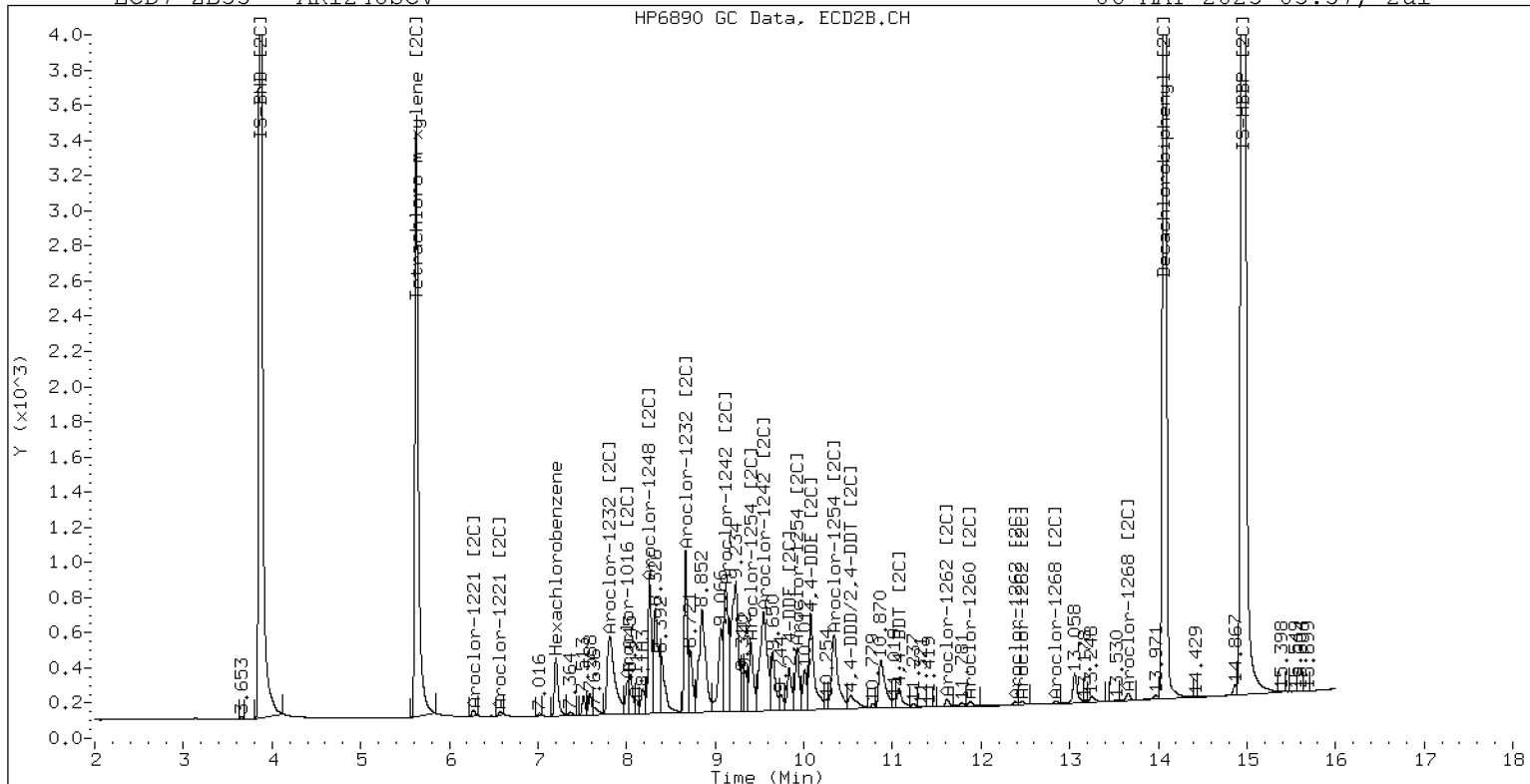
06-MAY-2023 03:57, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV

06-MAY-2023 03:57, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE  
CONTINUING CALIBRATION CHECK  
EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GE00022</u>         |
| Lab File ID:   | <u>05052335ECD7.D</u>            | Calibration Date: | <u>05/05/2023</u>      |
| Sequence:      | <u>SLE0079</u>                   | Injection Date:   | <u>05/06/23</u>        |
| Lab Sample ID: | <u>SLE0079-SCV4</u>              | Injection Time:   | <u>04:18</u>           |
| Sequence Name: | <u>AR1254SCV4</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1254               | A    | 250.00       | 239  | 0.0678007             | 0.0647470 |     | -4.3         | +/-20 |
| Aroclor 1254 [2C]          | A    | 250.00       | 241  | 0.0720677             | 0.0695237 |     | -3.8         | +/-20 |
| Decachlorobiphenyl         | A    | 40.000       | 36.0 | 0.7991406             | 0.7182997 |     | -10.1        | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 37.6 | 1.2048230             | 1.1319680 |     | -6.0         | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 38.5 | 1.1360140             | 1.0928370 |     | -3.8         | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 38.3 | 1.1005470             | 1.0547150 |     | -4.2         | +/-20 |

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052335ECD7.D  
Data file 2: /230505.b/230505.b/05052335ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1254SCV  
Client ID:  
Injection Date: 06-MAY-2023 04:18  
Report Date: 05/06/2023 11:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.743  | 0.001         | 368022   | 5.631  | 0.002          | 192033   | 37.6       | 38.3        | 2.0 | Tetrachloro-m-xylene |
| 13.843 | 0.002         | 352066   | 14.070 | 0.002          | 385384   | 36.0       | 38.5        | 6.8 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 650234      | 8.1  |
| Hexabromobiphenyl  | 876625         | 980276      | 11.8 |
| Column 2           |                |             |      |
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 349289         | 364142      | 4.3  |
| Hexabromobiphenyl  | 652984         | 705291      | 8.0  |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        |        | ZB35 Col                                 |        |        |        |        |
|--------------------------|-------|--------|--------|--------|--------|--|--------|--------|--------|--------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount | Peak#                                    | RT     | Shift  | Area   | Amount |
| Aroclor-1016             | 1     | 7.214  | 0.002  | 635    | 2.5    | 1  | ---    |        |        | 0.0    |
| Aroclor-1016             | 2     | 7.590  | -0.004 | 2512   | 3.2    | 2  | ---    |        |        | 0.0    |
| Aroclor-1016             | 3     | 7.738  | 0.005  | 1594   | 4.4    | 3  | ---    |        |        | 0.0    |
| Aroclor-1016             | 4     | 8.351  | -0.047 | 31774  | 211.6  | 4  | ---    |        |        | 0.0    |
| Total CollAve (4 peaks): |       |        |        | 55.4   |        | Col2Ave: <3 Quant Peaks                  |        |        |        |        |
| Aroclor-1221             | 1     | ---    |        |        | 0.0    | 1  | ---    |        |        | 0.0    |
| Aroclor-1221             | 2     | 6.052  | -0.018 | 242    | 2.6    | 2  | ---    |        |        | 0.0    |
| Aroclor-1221             | 3     | 6.322  | 0.001  | 427    | 2.0    | 3  | ---    |        |        | 0.0    |
| CollAve: <3 Quant Peaks  |       |        |        |        |        | Col2Ave: <3 Quant Peaks                  |        |        |        |        |
| Aroclor-1232             | 1     | ---    |        |        | 0.0    | 1  | ---    |        |        | 0.0    |
| Aroclor-1232             | 2     | 6.052  | -0.018 | 242    | 3.8    | 2  | ---    |        |        | 0.0    |
| Aroclor-1232             | 3     | 7.590  | -0.005 | 2512   | 8.3    | 3  | ---    |        |        | 0.0    |
| Aroclor-1232             | 4     | 8.528  | 0.001  | 13950  | 107.9  | 4  | ---    |        |        | 0.0    |
| Total CollAve (3 peaks): |       |        |        | 40.0   |        | Col2Ave: <3 Quant Peaks                  |        |        |        |        |
| Aroclor-1242             | 1     | 7.214  | 0.002  | 635    | 3.1    | 1  | ---    |        |        | 0.0    |
| Aroclor-1242             | 2     | 7.590  | -0.005 | 2512   | 3.9    | 2  | ---    |        |        | 0.0    |
| Aroclor-1242             | 3     | 8.351  | -0.047 | 31774  | 253.0  | 3  | 9.125  | 0.002  | 23963  | 215.9  |
| Aroclor-1242             | 4     | 8.528  | 0.004  | 13950  | 48.0   | 4  | 9.649  | 0.099  | 23982  | 179.3  |
| Total CollAve (4 peaks): |       |        |        | 77.0   |        | Col2Ave: <3 Quant Peaks                  |        |        |        |        |
| Aroclor-1248             | 1     | 8.351  | -0.048 | 31774  | 191.4  | 1  | 8.260  | -0.000 | 23490  | 135.6  |
| Aroclor-1248             | 2     | 8.528  | 0.004  | 13950  | 32.3   | 2  | 8.669  | 0.002  | 16693  | 91.2   |
| Aroclor-1248             | 3     | 8.941  | -0.003 | 154338 | 186.1  | 3  | 9.125  | 0.005  | 23963  | 111.7  |
| Aroclor-1248             | 4     | 9.246  | 0.003  | 158369 | 374.6  | 4  | 9.499  | -0.047 | 38716  | 150.5  |
| Total CollAve (4 peaks): |       |        |        | 196.1  |        | Total Col2Ave (4 peaks): 122.3 RPD = 46* |        |        |        |        |
| Corrected Ave (3 peaks): |       |        |        | 136.6  |        | Corrected Ave (3 peaks): 112.8 RPD = 19  |        |        |        |        |
| Aroclor-1254             | 1     | 9.246  | -0.001 | 158369 | 237.0  | 1  | 9.404  | 0.000  | 67493  | 244.0  |
| Aroclor-1254             | 2     | 9.325  | -0.000 | 72386  | 241.1  | 2  | 9.499  | -0.000 | 38716  | 235.6  |
| Aroclor-1254             | 3     | 9.617  | -0.001 | 103602 | 240.1  | 3  | 9.925  | 0.001  | 53972  | 240.7  |
| Aroclor-1254             | 4     | 9.756  | 0.000  | 201259 | 238.2  | 4  | 10.079 | 0.001  | 116950 | 239.0  |
| Aroclor-1254             | 5     | 10.127 | 0.001  | 122207 | 239.5  | 5  | 10.327 | -0.001 | 118439 | 243.9  |
| Total CollAve (5 peaks): |       |        |        | 239.2  |        | Total Col2Ave (5 peaks): 240.6 RPD = 1   |        |        |        |        |
| Corrected Ave (4 peaks): |       |        |        | 238.7  |        | Corrected Ave (4 peaks): 239.8 RPD = 0   |        |        |        |        |
| Aroclor-1260             | 1     | 10.994 | 0.001  | 13538  | 26.1   | 1  | 11.615 | 0.009  | 33465  | 89.3   |
| Aroclor-1260             | 2     | 11.313 | 0.003  | 13900  | 27.2   | 2  | 11.876 | 0.004  | 25534  | 26.1   |
| Aroclor-1260             | 3     | 11.689 | 0.004  | 32548  | 25.4   | 3  | 12.404 | 0.016  | 1811   | 7.5    |
| Aroclor-1260             | 4     | 12.093 | 0.003  | 25285  | 40.3   | 4  | 12.458 | 0.002  | 14842  | 22.7   |
| Aroclor-1260             | 5     | 12.273 | 0.079  | 2534   | 9.3    | NS                                       | ---    |        |        | ---    |
| Total CollAve (5 peaks): |       |        |        | 25.6   |        | Total Col2Ave (4 peaks): 36.4 RPD = 35   |        |        |        |        |
| Corrected Ave (4 peaks): |       |        |        | 22.0   |        | Corrected Ave (3 peaks): 18.7 RPD = 16   |        |        |        |        |
| Aroclor-1262             | 1     | 10.779 | 0.000  | 210018 | 473.6  | 1  | 11.073 | -0.081 | 114323 | 200.0  |
| Aroclor-1262             | 2     | 12.273 | 0.078  | 2534   | 4.1    | 2  | 11.615 | 0.010  | 33465  | 69.4   |
| Aroclor-1262             | 3     | ---    |        |        | 0.0    | 3  | 12.404 | 0.018  | 1811   | 3.4    |
| Aroclor-1262             | 4     | 12.939 | 0.001  | 1830   | 3.3    | 4  | 12.458 | 0.002  | 14842  | 17.3   |
| Total CollAve (3 peaks): |       |        |        | 160.3  |        | Total Col2Ave (4 peaks): 72.6 RPD = 75*  |        |        |        |        |
| Corrected Ave: < 3 Peaks |       |        |        |        |        | Corrected Ave (3 peaks): 30.1            |        |        |        |        |
| Aroclor-1268             | 1     | 12.273 | 0.077  | 2534   | 1.6    | 1  | 12.404 | 0.019  | 1811   | 1.4    |
| Aroclor-1268             | 2     | ---    |        |        | 0.0    | 2  | 12.458 | 0.005  | 14842  | 10.3   |
| Aroclor-1268             | 3     | 12.654 | 0.006  | 2669   | 2.1    | 3  | 12.847 | 0.004  | 835    | 0.7    |
| Aroclor-1268             | 4     | 13.442 | 0.004  | 6266   | 1.8    | 4  | 13.662 | -0.001 | 2350   | 0.6    |
| Total CollAve (3 peaks): |       |        |        | 1.8    |        | Total Col2Ave (4 peaks): 3.2 RPD = 55*   |        |        |        |        |
| Corrected Ave: < 3 Peaks |       |        |        |        |        | Corrected Ave (3 peaks): 0.9             |        |        |        |        |

Total PCB Area Col1 (5.842 - 13.740) = 2123119 Col1 Total PCB = 0.3 ppm\*  
Total PCB Area Col2 (5.728 - 13.968) = 1146487 Col2 Total PCB = 0.3 ppm\*

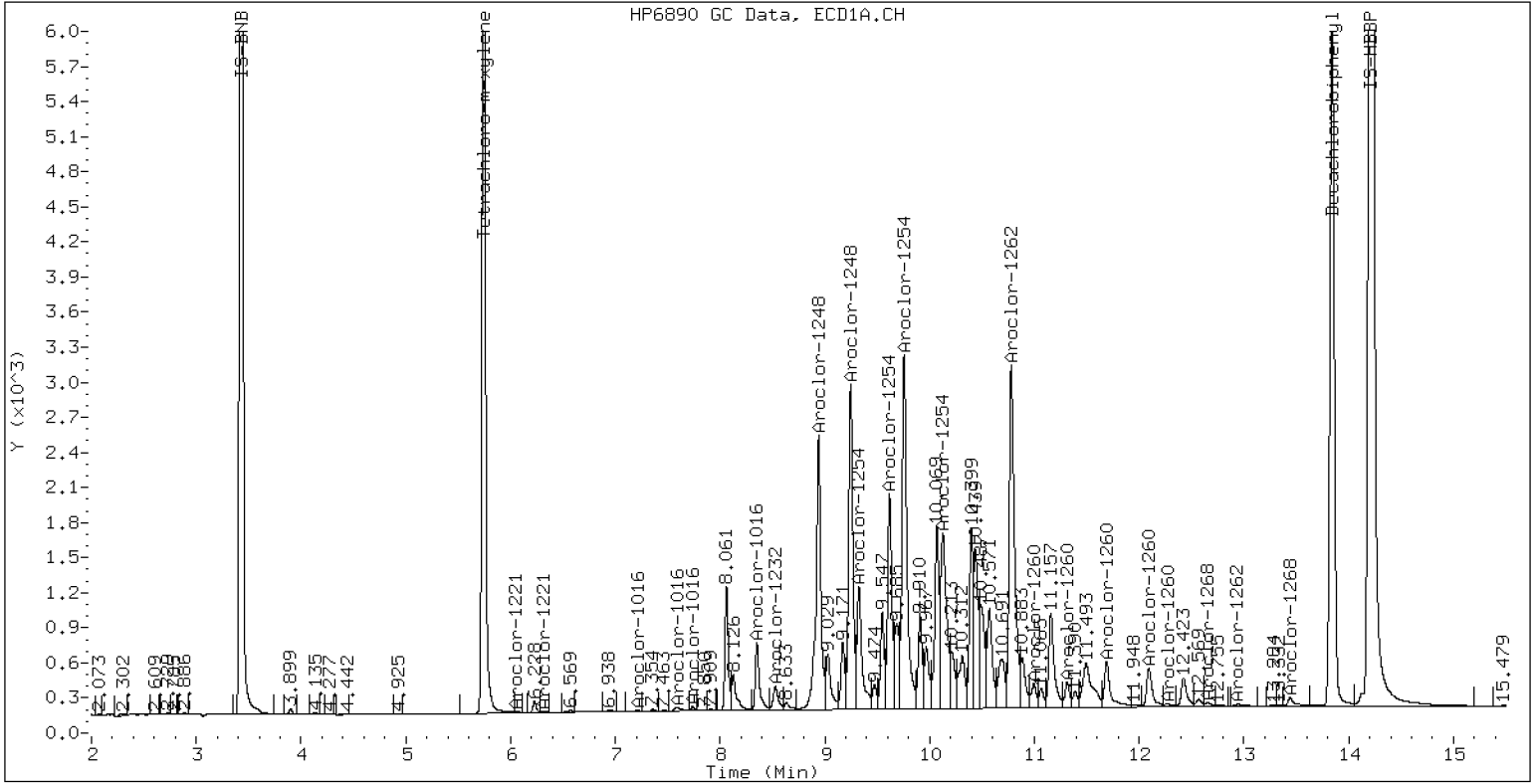
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV

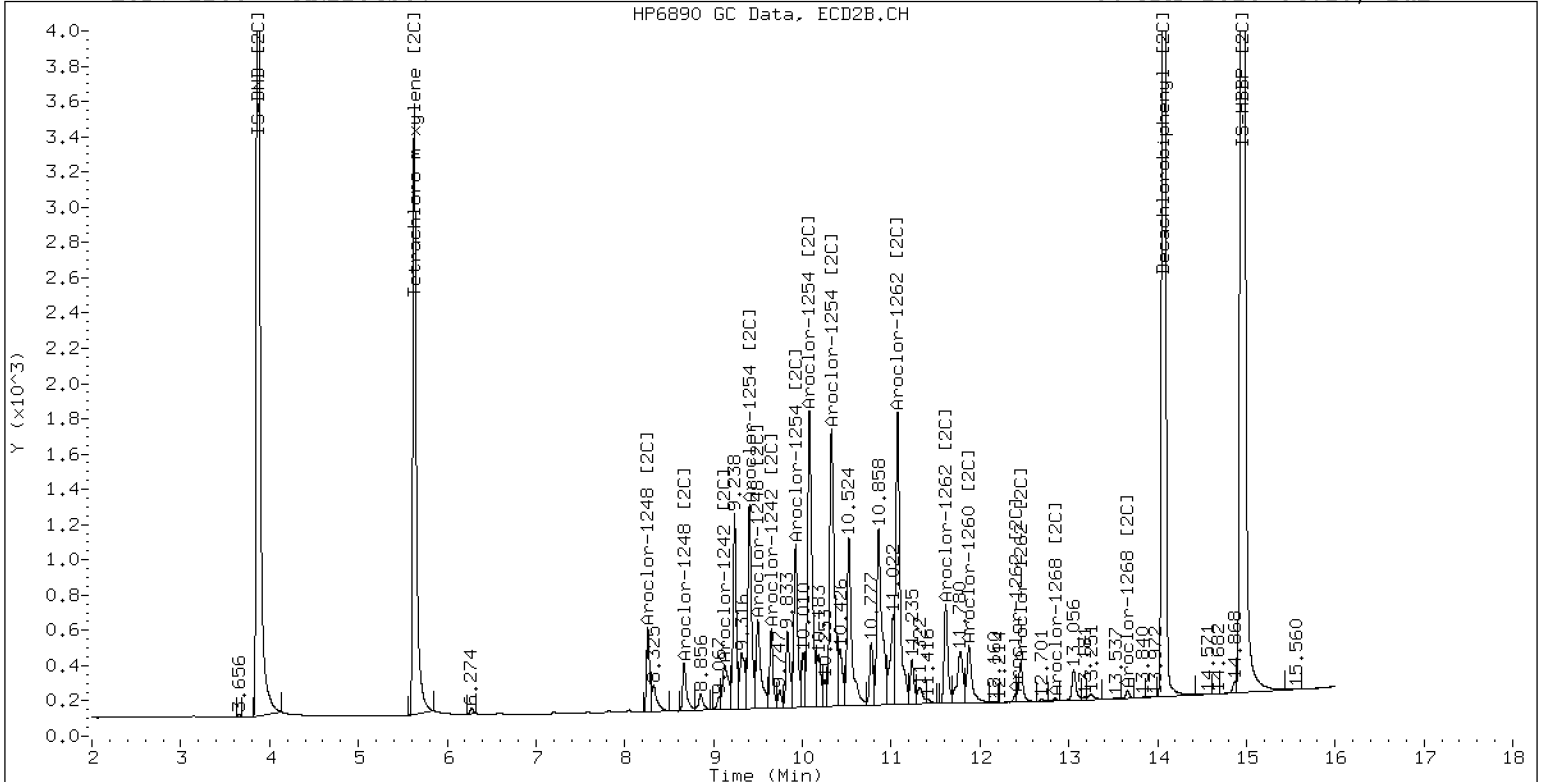
06-MAY-2023 04:18, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV

06-MAY-2023 04:18, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE  
CONTINUING CALIBRATION CHECK  
EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GE00022</u>         |
| Lab File ID:   | <u>05052336ECD7.D</u>            | Calibration Date: | <u>05/05/2023</u>      |
| Sequence:      | <u>SLE0079</u>                   | Injection Date:   | <u>05/06/23</u>        |
| Lab Sample ID: | <u>SLE0079-SCV5</u>              | Injection Time:   | <u>04:39</u>           |
| Sequence Name: | <u>AR2162SCV5</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1221               | A    | 250.00       | 290  | 0.0145752             | 0.0167225 |     | 15.9         | +/-20 |
| Aroclor 1221 [2C]          | A    | 250.00       | 288  | 0.0124557             | 0.0144068 |     | 15.3         | +/-20 |
| Aroclor 1262               | A    | 250.00       | 265  | 0.0465964             | 0.0493619 |     | 6.1          | +/-20 |
| Aroclor 1262 [2C]          | A    | 250.00       | 259  | 0.0691503             | 0.0715087 |     | 3.5          | +/-20 |
| Decachlorobiphenyl         | A    | 40.000       | 37.1 | 0.7991406             | 0.7407598 |     | -7.3         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 37.8 | 1.2048230             | 1.1381330 |     | -5.5         | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 38.8 | 1.1360140             | 1.1010220 |     | -3.1         | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 39.1 | 1.1005470             | 1.0746770 |     | -2.4         | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits



Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052336ECD7.D  
Data file 2: /230505.b/230505.b/05052336ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR2162SCV  
Client ID:  
Injection Date: 06-MAY-2023 04:39  
Report Date: 05/06/2023 11:31  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.742  | 0.000         | 358254   | 5.628  | -0.000         | 183759   | 37.8       | 39.1        | 3.3 | Tetrachloro-m-xylene |
| 13.842 | 0.002         | 344347   | 14.070 | 0.002          | 373300   | 37.1       | 38.8        | 4.5 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 629547      | 4.7 |
| Hexabromobiphenyl  | 876625         | 929713      | 6.1 |

| Standard Cpnd      | Column 2       |             |      |
|--------------------|----------------|-------------|------|
|                    | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 349289         | 341980      | -2.1 |
| Hexabromobiphenyl  | 652984         | 678097      | 3.8  |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col                 |       |        |        |        |            |  |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|------------|--|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount                   | Peak# | RT     | Shift  | Area   | Amount     |  |
| Aroclor-1016             | 1     | 7.213  | 0.000  | 6601   | 27.1                     | 1     | 7.207  | 0.003  | 3935   | 20.3       |  |
| Aroclor-1016             | 2     | 7.595  | 0.000  | 13419  | 17.6                     | 2     | 7.821  | 0.013  | 6146   | 14.9       |  |
| Aroclor-1016             | 3     | 7.735  | 0.003  | 7114   | 20.2                     | 3     | 8.027  | 0.021  | 3201   | 17.6       |  |
| Aroclor-1016             | 4     | 8.353  | -0.045 | 3916   | 26.9                     | 4     | 8.262  | 0.003  | 2131   | 14.7       |  |
| Total CollAve (4 peaks): |       |        |        | 23.0   | Total Col2Ave (4 peaks): |       |        |        | 16.9   | RPD = 30   |  |
| Corrected Ave (3 peaks): |       |        |        | 21.6   | Corrected Ave (3 peaks): |       |        |        | 15.7   | RPD = 31   |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1221             | 1     | 4.663  | -0.001 | 13184  | 297.8                    | 1     | 4.893  | -0.001 | 7253   | 287.5      |  |
| Aroclor-1221             | 2     | 6.070  | 0.000  | 25527  | 287.4                    | 2     | 6.244  | -0.001 | 14853  | 284.1      |  |
| Aroclor-1221             | 3     | 6.321  | 0.000  | 59985  | 284.3                    | 3     | 6.571  | -0.001 | 24083  | 292.9      |  |
| Total CollAve (3 peaks): |       |        |        | 289.8  | Total Col2Ave (3 peaks): |       |        |        | 288.2  | RPD = 1    |  |
| Corrected Ave: < 3 Peaks |       |        |        |        | Corrected Ave: < 3 Peaks |       |        |        |        |            |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1232             | 1     | 4.663  | -0.001 | 13184  | 447.0                    | 1     | 4.893  | -0.001 | 7253   | 546.9      |  |
| Aroclor-1232             | 2     | 6.070  | 0.000  | 25527  | 416.0                    | 2     | 7.207  | 0.002  | 3935   | 51.8       |  |
| Aroclor-1232             | 3     | 7.595  | -0.000 | 13419  | 45.9                     | 3     | 7.821  | 0.006  | 6146   | 40.3       |  |
| Aroclor-1232             | 4     | 8.528  | 0.001  | 2679   | 21.4                     | 4     | 8.671  | 0.002  | 1120   | 25.4       |  |
| Total CollAve (4 peaks): |       |        |        | 232.6  | Total Col2Ave (4 peaks): |       |        |        | 166.1  | RPD = 33   |  |
| Corrected Ave (3 peaks): |       |        |        | 161.1  | Corrected Ave (3 peaks): |       |        |        | 39.2   | RPD = 122* |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1242             | 1     | 7.213  | 0.001  | 6601   | 33.3                     | 1     | 7.207  | 0.004  | 3935   | 25.7       |  |
| Aroclor-1242             | 2     | 7.595  | -0.000 | 13419  | 21.3                     | 2     | 7.821  | 0.008  | 6146   | 18.9       |  |
| Aroclor-1242             | 3     | 8.353  | -0.045 | 3916   | 32.2                     | 3     | 9.133  | 0.010  | 881    | 8.5        |  |
| Aroclor-1242             | 4     | 8.528  | 0.003  | 2679   | 9.5                      | 4     | 9.651  | 0.101  | 516    | 4.1        |  |
| Total CollAve (4 peaks): |       |        |        | 24.1   | Total Col2Ave (4 peaks): |       |        |        | 14.3   | RPD = 51*  |  |
| Corrected Ave (3 peaks): |       |        |        | 21.0   | Corrected Ave (3 peaks): |       |        |        | 10.5   | RPD = 67*  |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1248             | 1     | 8.353  | -0.046 | 3916   | 24.4                     | 1     | 8.262  | 0.002  | 2131   | 13.1       |  |
| Aroclor-1248             | 2     | 8.528  | 0.003  | 2679   | 6.4                      | 2     | 8.671  | 0.004  | 1120   | 6.5        |  |
| Aroclor-1248             | 3     | 8.942  | -0.002 | 25144  | 31.3                     | 3     | 9.133  | 0.013  | 881    | 4.4        |  |
| Aroclor-1248             | 4     | 9.251  | 0.008  | 25583  | 62.5                     | 4     | 9.500  | -0.045 | 335    | 1.4        |  |
| Total CollAve (4 peaks): |       |        |        | 31.1   | Total Col2Ave (4 peaks): |       |        |        | 6.3    | RPD = 132* |  |
| Corrected Ave (3 peaks): |       |        |        | 20.7   | Corrected Ave (3 peaks): |       |        |        | 4.1    | RPD = 134* |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1254             | 1     | 9.251  | 0.005  | 25583  | 39.5                     | 1     | 9.408  | 0.004  | 9719   | 37.4       |  |
| Aroclor-1254             | 2     | ---    |        |        | 0.0                      | 2     | 9.500  | 0.001  | 335    | 2.2        |  |
| Aroclor-1254             | 3     | 9.620  | 0.002  | 4245   | 10.2                     | 3     | 9.928  | 0.004  | 2055   | 9.8        |  |
| Aroclor-1254             | 4     | 9.758  | 0.003  | 11050  | 13.5                     | 4     | 10.100 | 0.022  | 55162  | 120.0      |  |
| Aroclor-1254             | 5     | 10.071 | -0.055 | 129151 | 261.4                    | 5     | 10.325 | -0.004 | 68421  | 150.1      |  |
| Total CollAve (4 peaks): |       |        |        | 81.1   | Total Col2Ave (5 peaks): |       |        |        | 63.9   | RPD = 24   |  |
| Corrected Ave (3 peaks): |       |        |        | 21.1   | Corrected Ave (4 peaks): |       |        |        | 42.3   | RPD = 67*  |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1260             | 1     | 10.995 | 0.002  | 206643 | 420.3                    | 1     | 11.605 | -0.001 | 119902 | 332.9      |  |
| Aroclor-1260             | 2     | 11.311 | 0.001  | 167443 | 345.1                    | 2     | 11.872 | 0.000  | 293746 | 311.8      |  |
| Aroclor-1260             | 3     | 11.687 | 0.001  | 390491 | 321.4                    | 3     | 12.386 | -0.002 | 131462 | 563.2      |  |
| Aroclor-1260             | 4     | 12.091 | 0.001  | 120118 | 201.8                    | 4     | 12.456 | 0.000  | 212898 | 338.4      |  |
| Aroclor-1260             | 5     | 12.195 | 0.002  | 155588 | 599.5                    | NS    | ---    |        |        | ----       |  |
| Total CollAve (5 peaks): |       |        |        | 377.6  | Total Col2Ave (4 peaks): |       |        |        | 386.6  | RPD = 2    |  |
| Corrected Ave (4 peaks): |       |        |        | 322.2  | Corrected Ave (3 peaks): |       |        |        | 327.7  | RPD = 2    |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1262             | 1     | 10.777 | -0.001 | 114050 | 271.2                    | 1     | 11.153 | 0.000  | 141861 | 258.2      |  |
| Aroclor-1262             | 2     | 12.195 | 0.001  | 155588 | 263.0                    | 2     | 11.605 | 0.000  | 119902 | 258.7      |  |
| Aroclor-1262             | 3     | 12.269 | 0.000  | 167998 | 264.2                    | 3     | 12.386 | -0.000 | 131462 | 259.6      |  |
| Aroclor-1262             | 4     | 12.938 | -0.001 | 136019 | 262.5                    | 4     | 12.456 | 0.000  | 212898 | 258.0      |  |
| Total CollAve (4 peaks): |       |        |        | 265.2  | Total Col2Ave (4 peaks): |       |        |        | 258.6  | RPD = 3    |  |
| Corrected Ave (3 peaks): |       |        |        | 263.3  | Corrected Ave (3 peaks): |       |        |        | 258.3  | RPD = 2    |  |
|                          |       |        |        |        |                          |       |        |        |        |            |  |
| Aroclor-1268             | 1     | 12.195 | -0.000 | 155588 | 104.9                    | 1     | 12.386 | 0.001  | 131462 | 102.4      |  |
| Aroclor-1268             | 2     | 12.269 | 0.001  | 167998 | 114.1                    | 2     | 12.456 | 0.003  | 212898 | 154.3      |  |
| Aroclor-1268             | 3     | 12.675 | 0.027  | 60611  | 51.2                     | 3     | 12.843 | -0.000 | 8393   | 7.1        |  |
| Aroclor-1268             | 4     | 13.439 | 0.001  | 49821  | 14.7                     | 4     | 13.661 | -0.002 | 39480  | 10.4       |  |
| Total CollAve (4 peaks): |       |        |        | 71.2   | Total Col2Ave (4 peaks): |       |        |        | 68.6   | RPD = 4    |  |

Corrected Ave (3 peaks): 56.9      Corrected Ave (3 peaks): 40.0      RPD = 35

Total PCB Area Col1 (5.842 - 13.740) = 2870829      Col1 Total PCB = 0.4 ppm\*  
Total PCB Area Col2 (5.728 - 13.968) = 1885829      Col2 Total PCB = 0.5 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.





**SECOND-SOURCE  
CONTINUING CALIBRATION CHECK  
EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GE00022</u>         |
| Lab File ID:   | <u>05052337ECD7.D</u>            | Calibration Date: | <u>05/05/2023</u>      |
| Sequence:      | <u>SLE0079</u>                   | Injection Date:   | <u>05/06/23</u>        |
| Lab Sample ID: | <u>SLE0079-SCV6</u>              | Injection Time:   | <u>05:00</u>           |
| Sequence Name: | <u>AR3268SCV6</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1232               | A    | 250.00       | 256  | 0.0161500             | 0.0177311 |     | 2.6          | +/-20 |
| Aroclor 1232 [2C]          | A    | 250.00       | 301  | 0.0167199             | 0.0201037 |     | 20.3         | +/-20 |
| Aroclor 1268               | A    | 250.00       | 266  | 0.1617990             | 0.1720924 |     | 6.5          | +/-20 |
| Aroclor 1268 [2C]          | A    | 250.00       | 263  | 0.2250713             | 0.2372875 |     | 5.2          | +/-20 |
| Decachlorobiphenyl         | A    | 40.000       | 55.1 | 0.7991406             | 1.1003690 |     | 37.7         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 38.4 | 1.2048230             | 1.1563010 |     | -4.0         | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 59.3 | 1.1360140             | 1.6851460 |     | 48.3         | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 40.4 | 1.1005470             | 1.1123120 |     | 1.1          | +/-20 |

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230505.b/05052337ECD7.D  
Data file 2: /230505.b/230505.b/05052337ECD7.D  
Method: \\target\share\chem4\ecd7.i\230505.b\PCB.m  
Compound Sublist: PCB.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR3268SCV  
Client ID:  
Injection Date: 06-MAY-2023 05:00  
Report Date: 05/06/2023 11:31  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.743  | 0.001         | 373749   | 5.629  | 0.001          | 196946   | 38.4       | 40.4        | 5.2 | Tetrachloro-m-xylene |
| 13.842 | 0.002         | 525409   | 14.069 | 0.001          | 586548   | 55.1       | 59.3        | 7.4 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd      | Column 1       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 601474         | 646456      | 7.5 |
| Hexabromobiphenyl  | 876625         | 954969      | 8.9 |

| Standard Cpnd      | Column 2       |             |     |
|--------------------|----------------|-------------|-----|
|                    | Standard Area* | Sample Area | %D  |
| Bromo-Nitrobenzene | 349289         | 354120      | 1.4 |
| Hexabromobiphenyl  | 652984         | 696139      | 6.6 |

\* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 05-MAY-2023

<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        |        | ZB35 Col                 |        |        |         |                  |
|--------------------------|-------|--------|--------|--------|--------|--------------------------|--------|--------|---------|------------------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount | Peak#                    | RT     | Shift  | Area    | Amount           |
| Aroclor-1016             | 1     | 7.214  | 0.001  | 28623  | 114.3  | 1                        | 7.205  | 0.002  | 23124   | 115.4            |
| Aroclor-1016             | 2     | 7.597  | 0.002  | 85721  | 109.5  | 2                        | 7.815  | 0.007  | 47496   | 111.2            |
| Aroclor-1016             | 3     | 7.735  | 0.002  | 41343  | 114.3  | 3                        | 8.014  | 0.008  | 24029   | 127.5            |
| Aroclor-1016             | 4     | 8.400  | 0.002  | 16653  | 111.6  | 4                        | 8.262  | 0.003  | 15421   | 103.0            |
| Total CollAve (4 peaks): |       |        |        | 112.4  |        | Total Col2Ave (4 peaks): |        |        |         | 114.3 RPD = 2    |
| Corrected Ave (3 peaks): |       |        |        | 111.8  |        | Corrected Ave (3 peaks): |        |        |         | 109.9 RPD = 2    |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1221             | 1     | 4.664  | 0.001  | 7272   | 159.9  | 1                        | 4.895  | 0.000  | 4045    | 154.9            |
| Aroclor-1221             | 2     | 6.070  | 0.001  | 13478  | 147.8  | 2                        | 6.246  | 0.000  | 9235    | 170.6            |
| Aroclor-1221             | 3     | 6.321  | 0.001  | 43831  | 202.3  | 3                        | 6.572  | 0.000  | 24300   | 285.4            |
| Total CollAve (3 peaks): |       |        |        | 170.0  |        | Total Col2Ave (3 peaks): |        |        |         | 203.6 RPD = 18   |
| Corrected Ave: < 3 Peaks |       |        |        |        |        | Corrected Ave: < 3 Peaks |        |        |         |                  |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1232             | 1     | 4.664  | 0.001  | 7272   | 240.1  | 1                        | 4.895  | 0.001  | 4045    | 294.5            |
| Aroclor-1232             | 2     | 6.070  | 0.001  | 13478  | 213.9  | 2                        | 7.205  | 0.001  | 23124   | 294.1            |
| Aroclor-1232             | 3     | 7.597  | 0.002  | 85721  | 285.5  | 3                        | 7.815  | 0.000  | 47496   | 300.7            |
| Aroclor-1232             | 4     | 8.527  | 0.000  | 36809  | 286.5  | 4                        | 8.669  | -0.000 | 14324   | 313.2            |
| Total CollAve (4 peaks): |       |        |        | 256.5  |        | Total Col2Ave (4 peaks): |        |        |         | 300.6 RPD = 16   |
| Corrected Ave (3 peaks): |       |        |        | 246.5  |        | Corrected Ave (3 peaks): |        |        |         | 296.5 RPD = 18   |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1242             | 1     | 7.214  | 0.002  | 28623  | 140.5  | 1                        | 7.205  | 0.002  | 23124   | 146.1            |
| Aroclor-1242             | 2     | 7.597  | 0.002  | 85721  | 132.8  | 2                        | 7.815  | 0.002  | 47496   | 141.1            |
| Aroclor-1242             | 3     | 8.400  | 0.002  | 16653  | 133.4  | 3                        | 9.128  | 0.005  | 14403   | 133.4            |
| Aroclor-1242             | 4     | 8.527  | 0.003  | 36809  | 127.4  | 4                        | 9.648  | 0.098  | 5512    | 42.4             |
| Total CollAve (4 peaks): |       |        |        | 133.5  |        | Total Col2Ave (4 peaks): |        |        |         | 115.7 RPD = 14   |
| Corrected Ave (3 peaks): |       |        |        | 131.2  |        | Corrected Ave (3 peaks): |        |        |         | 105.6 RPD = 22   |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1248             | 1     | 8.400  | 0.001  | 16653  | 100.9  | 1                        | 8.262  | 0.002  | 15421   | 91.5             |
| Aroclor-1248             | 2     | 8.527  | 0.003  | 36809  | 85.8   | 2                        | 8.669  | 0.002  | 14324   | 80.5             |
| Aroclor-1248             | 3     | 8.944  | 0.000  | 89377  | 108.4  | 3                        | 9.128  | 0.008  | 14403   | 69.0             |
| Aroclor-1248             | 4     | 9.238  | -0.005 | 41570  | 98.9   | 4                        | 9.560  | 0.015  | 17331   | 69.3             |
| Total CollAve (4 peaks): |       |        |        | 98.5   |        | Total Col2Ave (4 peaks): |        |        |         | 77.6 RPD = 24    |
| Corrected Ave (3 peaks): |       |        |        | 95.2   |        | Corrected Ave (3 peaks): |        |        |         | 72.9 RPD = 26    |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1254             | 1     | 9.238  | -0.008 | 41570  | 62.6   | 1                        | 9.407  | 0.003  | 5487    | 20.4             |
| Aroclor-1254             | 2     | 9.326  | 0.001  | 12640  | 42.3   | 2                        | 9.560  | 0.061  | 17331   | 108.4            |
| Aroclor-1254             | 3     | 9.624  | 0.006  | 7232   | 16.9   | 3                        | 9.929  | 0.005  | 3481    | 16.0             |
| Aroclor-1254             | 4     | 9.764  | 0.008  | 11671  | 13.9   | 4                        | 10.086 | 0.009  | 7259    | 15.3             |
| Aroclor-1254             | 5     | 10.139 | 0.014  | 7544   | 14.9   | 5                        | 10.345 | 0.017  | 6610    | 14.0             |
| Total CollAve (5 peaks): |       |        |        | 30.1   |        | Total Col2Ave (5 peaks): |        |        |         | 34.8 RPD = 14    |
| Corrected Ave (4 peaks): |       |        |        | 22.0   |        | Corrected Ave (4 peaks): |        |        |         | 16.4 RPD = 29    |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1260             | 1     | 10.998 | 0.005  | 85093  | 168.5  | 1                        | 11.598 | -0.008 | 75237   | 203.5            |
| Aroclor-1260             | 2     | 11.313 | 0.003  | 6363   | 12.8   | 2                        | 11.873 | 0.001  | 33655   | 34.8             |
| Aroclor-1260             | 3     | 11.688 | 0.002  | 47857  | 38.3   | 3                        | 12.384 | -0.004 | 346138  | 1444.4           |
| Aroclor-1260             | 4     | 12.094 | 0.004  | 1291   | 2.1    | 4                        | 12.453 | -0.002 | 373218  | 577.8            |
| Aroclor-1260             | 5     | 12.195 | 0.001  | 406211 | 1523.9 | NS                       | ---    |        |         | ----             |
| Total CollAve (5 peaks): |       |        |        | 349.1  |        | Total Col2Ave (4 peaks): |        |        |         | 565.1 RPD = 47*  |
| Corrected Ave (4 peaks): |       |        |        | 55.4   |        | Corrected Ave (3 peaks): |        |        |         | 272.0 RPD = 132* |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1262             | 1     | 10.785 | 0.006  | 4006   | 9.3    | 1                        | 11.156 | 0.002  | 52531   | 93.1             |
| Aroclor-1262             | 2     | 12.195 | 0.000  | 406211 | 668.6  | 2                        | 11.598 | -0.007 | 75237   | 158.2            |
| Aroclor-1262             | 3     | 12.268 | -0.002 | 403730 | 618.2  | 3                        | 12.384 | -0.002 | 346138  | 665.8            |
| Aroclor-1262             | 4     | 12.937 | -0.002 | 145536 | 273.5  | 4                        | 12.453 | -0.002 | 373218  | 440.5            |
| Total CollAve (4 peaks): |       |        |        | 392.4  |        | Total Col2Ave (4 peaks): |        |        |         | 339.4 RPD = 14   |
| Corrected Ave (3 peaks): |       |        |        | 300.3  |        | Corrected Ave (3 peaks): |        |        |         | 230.6 RPD = 26   |
|                          |       |        |        |        |        |                          |        |        |         |                  |
| Aroclor-1268             | 1     | 12.195 | -0.001 | 406211 | 266.7  | 1                        | 12.384 | -0.001 | 346138  | 262.7            |
| Aroclor-1268             | 2     | 12.268 | -0.000 | 403730 | 266.9  | 2                        | 12.453 | 0.001  | 373218  | 263.5            |
| Aroclor-1268             | 3     | 12.648 | -0.000 | 323568 | 266.0  | 3                        | 12.844 | 0.001  | 316122  | 260.6            |
| Aroclor-1268             | 4     | 13.439 | 0.002  | 920777 | 265.1  | 4                        | 13.663 | 0.000  | 1029335 | 264.8            |
| Total CollAve (4 peaks): |       |        |        | 266.2  |        | Total Col2Ave (4 peaks): |        |        |         | 262.9 RPD = 1    |

Corrected Ave (3 peaks): 265.9      Corrected Ave (3 peaks): 262.3      RPD = 1

Total PCB Area Col1 (5.842 - 13.740) = 3325332      Col1 Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.728 - 13.968) = 2876097      Col2 Total PCB = 0.7 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.







**CONTINUING CALIBRATION CHECK**  
**EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GE00022</u>         |
| Lab File ID:   | <u>05182307ECD7.D</u>            | Calibration Date: | <u>05/05/2023</u>      |
| Sequence:      | <u>SLE0303</u>                   | Injection Date:   | <u>05/18/23</u>        |
| Lab Sample ID: | <u>SLE0303-CCV1</u>              | Injection Time:   | <u>13:16</u>           |
| Sequence Name: | <u>AR1248CCV1</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1248               | A    | 250.00       | 247  | 0.0592639             | 0.0565284 |     | -1.1         | +/-20 |
| Aroclor-1248 (1)           | A    | 250.00       | 250  |                       | 0.0204374 |     |              |       |
| Aroclor-1248 (2)           | A    | 250.00       | 253  |                       | 0.0537903 |     |              |       |
| Aroclor-1248 (3)           | A    | 250.00       | 253  |                       | 0.1034613 |     |              |       |
| Aroclor-1248 (4)           | A    | 250.00       | 233  |                       | 0.0484245 |     |              |       |
| Aroclor 1248 [2C]          | A    | 250.00       | 250  | 0.0453673             | 0.0455224 |     | 0.1          | +/-20 |
| Aroclor-1248 (1) [2C]      | A    | 250.00       | 249  |                       | 0.0379153 |     |              |       |
| Aroclor-1248 (2) [2C]      | A    | 250.00       | 249  |                       | 0.0399796 |     |              |       |
| Aroclor-1248 (3) [2C]      | A    | 250.00       | 254  |                       | 0.0478243 |     |              |       |
| Aroclor-1248 (4) [2C]      | A    | 250.00       | 249  |                       | 0.0563704 |     |              |       |
| Decachlorobiphenyl         | A    | 40.000       | 38.8 | 0.7991406             | 0.7743139 |     | -3.0         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 39.0 | 1.2048230             | 1.1742210 |     | -2.5         | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 40.8 | 1.1360140             | 1.1584320 |     | 2.0          | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 40.1 | 1.1005470             | 1.1025680 |     | 0.3          | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230518.b/05182307ECD7.D  
Data file 2: /230518.b/230518.b/05182307ECD7.D  
Method: \\target\share\chem4\ecd7.i\230518.b\PCB.m  
Compound Sublist: AR1248.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1248CCV1  
Client ID:  
Injection Date: 18-MAY-2023 13:16  
Report Date: 05/18/2023 15:28  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |       | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|-------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift | Response | on col |      |               | on col               |
| 5.743   | -0.001 | 339735   | 5.630  | 0.000 | 194160   | 39.0   | 40.1 | 2.8           | Tetrachloro-m-xylene |
| 13.840  | -0.000 | 353314   | 14.068 | 0.001 | 343291   | 38.8   | 40.8 | 5.1           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 578656      | -3.8 |
| Hexabromobiphenyl  | 876625         | 912586      | 4.1  |

| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 349289         | 352196      | 0.8  |
| Hexabromobiphenyl  | 652984         | 592682      | -9.2 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |        |        |                          | ZB35 Col |       |       |       |         |  |
|--------------------------|-------|-------|--------|--------|--------------------------|----------|-------|-------|-------|---------|--|
| Aroclor                  | Peak# | RT    | Shift  | Area   | Amount                   | Peak#    | RT    | Shift | Area  | Amount  |  |
| Aroclor-1248             | 1     | 8.399 | -0.001 | 36957  | 250.2                    | 1        | 8.259 | 0.000 | 41730 | 249.1   |  |
| Aroclor-1248             | 2     | 8.524 | -0.001 | 97269  | 253.4                    | 2        | 8.667 | 0.000 | 44002 | 248.6   |  |
| Aroclor-1248             | 3     | 8.944 | -0.001 | 187089 | 253.5                    | 3        | 9.117 | 0.000 | 52636 | 253.7   |  |
| Aroclor-1248             | 4     | 9.241 | 0.001  | 87566  | 232.7                    | 4        | 9.545 | 0.000 | 62042 | 249.4   |  |
| Total Col1Ave (4 peaks): |       |       |        | 247.5  | Total Col2Ave (4 peaks): |          |       |       | 250.2 | RPD = 1 |  |
| Corrected Ave (3 peaks): |       |       |        | 245.5  | Corrected Ave (3 peaks): |          |       |       | 249.0 | RPD = 1 |  |
| CalAmt %D:               |       |       |        | -1.0   | CalAmt %D:               |          |       |       | 0.1   |         |  |

Total PCB Area Col1 (5.843 - 13.740) = 1495965 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.729 - 13.967) = 853797 Col2 Total PCB = 0.2 ppm\*

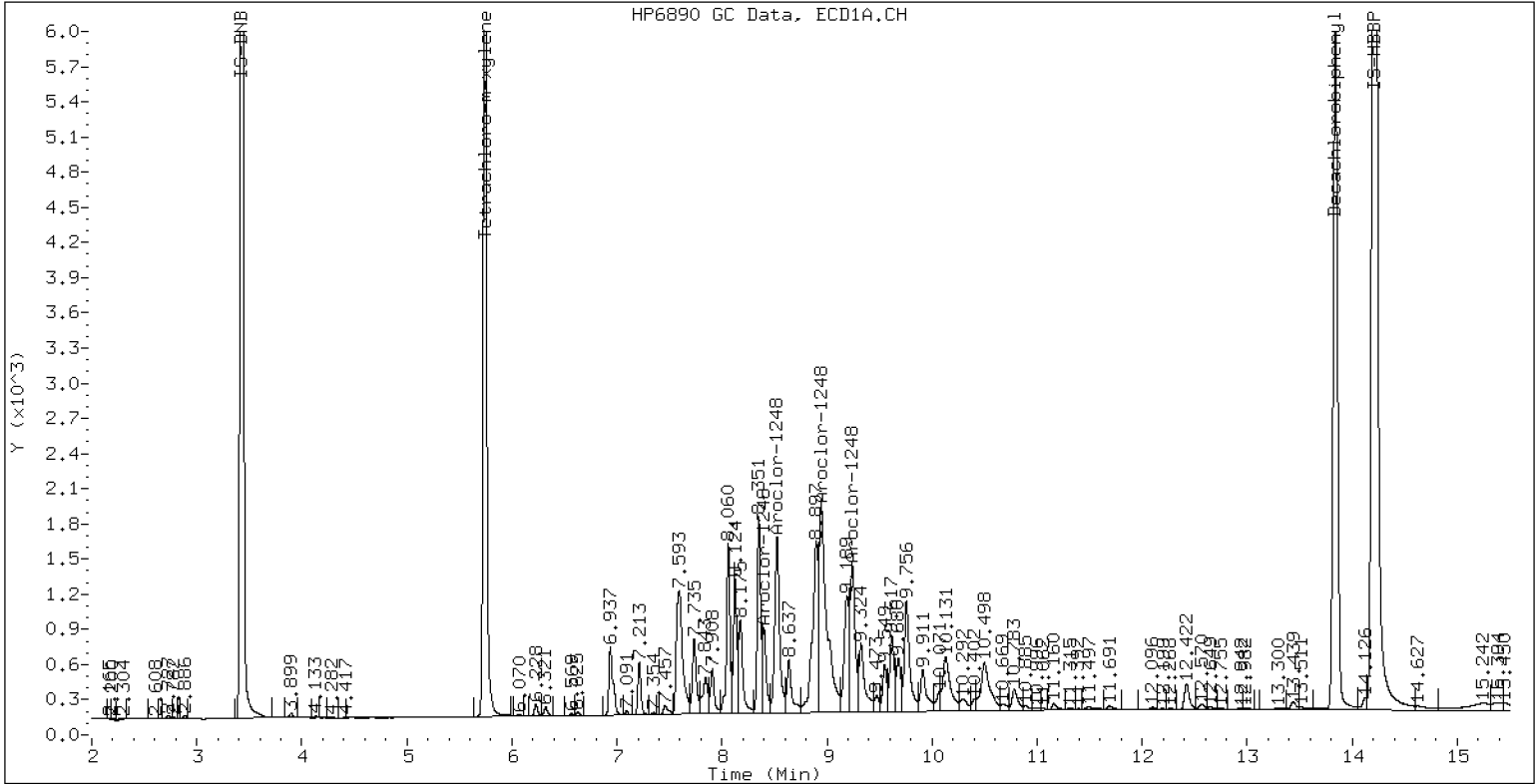
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1

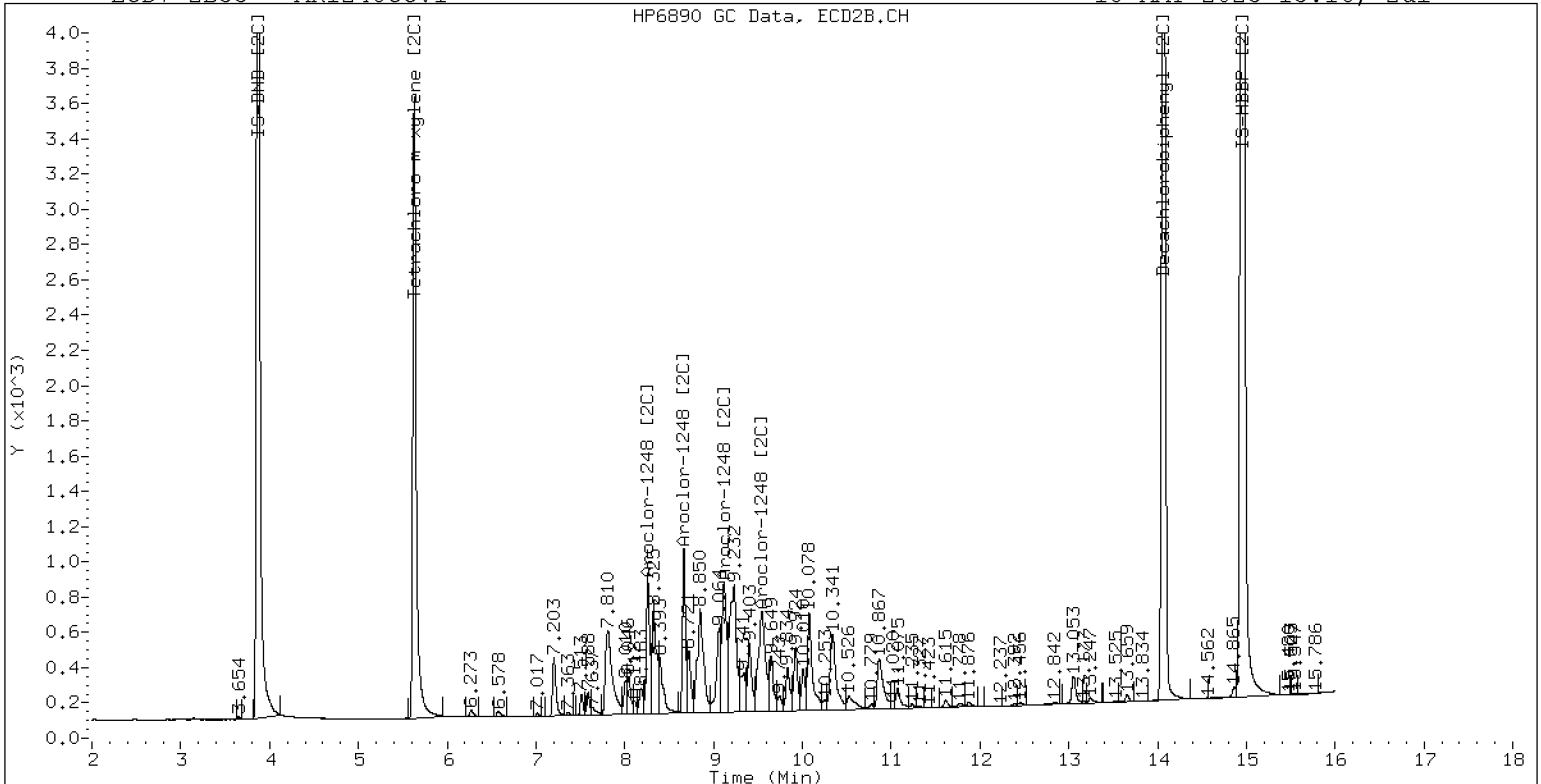
18-MAY-2023 13:16, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV1

18-MAY-2023 13:16, 2ul



ZB-35 Manual Integration: NO



**CONTINUING CALIBRATION CHECK  
EPA 8082A**

Laboratory: Analytical Resources, LLC                                  SDG: 23A0179  
Client: Anchor QEA, LLC    Project: AOC5 MR Phase 1  
Instrument ID: ECD7    Calibration: GE00022  
Lab File ID: 05182308ECD7.D    Calibration Date: 05/05/2023  
Sequence: SLE0303    Injection Date: 05/18/23  
Lab Sample ID: SLE0303-CCV2    Injection Time: 13:37  
Sequence Name: AR1660CCV2

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1016               | A    | 250.00       | 274  | 0.0477728             | 0.0525051 |     | 9.6          | +/-20 |
| Aroclor-1016 (1)           | A    | 250.00       | 274  | 0.0309764             | 0.0339863 |     | 9.6          |       |
| Aroclor-1016 (2)           | A    | 250.00       | 277  | 0.0968611             | 0.1072433 |     | 10.8         |       |
| Aroclor-1016 (3)           | A    | 250.00       | 270  | 0.0447793             | 0.0484691 |     | 8.0          |       |
| Aroclor-1016 (4)           | A    | 250.00       | 275  | 0.0184745             | 0.0203216 |     | 10.0         |       |
| Aroclor 1016 [2C]          | A    | 250.00       | 247  | 0.0545435             | 0.0545127 |     | -1.3         | +/-20 |
| Aroclor-1016 (1) [2C]      | A    | 250.00       | 240  | 0.0452861             | 0.0434843 |     | -4.0         |       |
| Aroclor-1016 (2) [2C]      | A    | 250.00       | 259  | 0.0965080             | 0.0999844 |     | 3.6          |       |
| Aroclor-1016 (3) [2C]      | A    | 250.00       | 243  | 0.0425661             | 0.0414348 |     | -2.8         |       |
| Aroclor-1016 (4) [2C]      | A    | 250.00       | 245  | 0.0338137             | 0.0331471 |     | -2.0         |       |
| Aroclor 1260               | A    | 250.00       | 255  | 0.0524306             | 0.0535170 |     | 2.0          | +/-20 |
| Aroclor-1260 (1)           | A    | 250.00       | 250  | 0.0423031             | 0.0422782 |     | 0.0          |       |
| Aroclor-1260 (2)           | A    | 250.00       | 254  | 0.0417493             | 0.0423608 |     | 1.6          |       |
| Aroclor-1260 (3)           | A    | 250.00       | 255  | 0.1045597             | 0.1068204 |     | 2.0          |       |
| Aroclor-1260 (4)           | A    | 250.00       | 260  | 0.0512104             | 0.0532888 |     | 4.0          |       |
| Aroclor-1260 (5)           | A    | 250.00       | 256  | 0.0223305             | 0.0228368 |     | 2.4          |       |
| Aroclor 1260 [2C]          | A    | 250.00       | 265  | 0.0638471             | 0.0677942 |     | 5.9          | +/-20 |
| Aroclor-1260 (1) [2C]      | A    | 250.00       | 261  | 0.0424868             | 0.0443564 |     | 4.4          |       |
| Aroclor-1260 (2) [2C]      | A    | 250.00       | 266  | 0.1111292             | 0.1184956 |     | 6.4          |       |
| Aroclor-1260 (3) [2C]      | A    | 250.00       | 266  | 0.0275392             | 0.0292953 |     | 6.4          |       |
| Aroclor-1260 (4) [2C]      | A    | 250.00       | 266  | 0.0742331             | 0.0790293 |     | 6.4          |       |
| Decachlorobiphenyl         | A    | 40.000       | 41.4 | 0.7991406             | 0.8265487 |     | 3.5          | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 42.4 | 1.2048230             | 1.2760190 |     | 6.0          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 42.4 | 1.1360140             | 1.2032740 |     | 6.0          | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 41.5 | 1.1005470             | 1.1417530 |     | 3.8          | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230518.b/05182308ECD7.D  
Data file 2: /230518.b/230518.b/05182308ECD7.D  
Method: \\target\share\chem4\ecd7.i\230518.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660CCV2  
Client ID:  
Injection Date: 18-MAY-2023 13:37  
Report Date: 05/18/2023 15:28  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.743   | -0.001 | 365647   | 5.629  | -0.000 | 194766   | 42.4   | 41.5 | 2.1           | Tetrachloro-m-xylene |
| 13.840  | -0.000 | 390667   | 14.068 | 0.001  | 360478   | 41.4   | 42.4 | 2.4           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 573106      | -4.7 |
| Hexabromobiphenyl  | 876625         | 945297      | 7.8  |

| Column 2           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 349289         | 341170      | -2.3 |
| Hexabromobiphenyl  | 652984         | 599162      | -8.2 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |        |        |        |          |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|--------|----------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift  | Area   | Amount |          |
| Aroclor-1016             | 1     | 7.214  | 0.001  | 60868  | 274.3    | 1                        | 7.205  | 0.001  | 46361  | 240.1  |          |
| Aroclor-1016             | 2     | 7.594  | -0.001 | 192068 | 276.8    | 2                        | 7.810  | 0.000  | 106599 | 259.0  |          |
| Aroclor-1016             | 3     | 7.735  | 0.001  | 86806  | 270.6    | 3                        | 8.009  | 0.001  | 44176  | 243.4  |          |
| Aroclor-1016             | 4     | 8.399  | 0.000  | 36395  | 275.0    | 4                        | 8.259  | -0.001 | 35340  | 245.1  |          |
| Total CollAve (4 peaks): |       |        |        | 274.2  |          | Total Col2Ave (4 peaks): |        |        |        | 246.9  | RPD = 10 |
| Corrected Ave (3 peaks): |       |        |        | 273.3  |          | Corrected Ave (3 peaks): |        |        |        | 242.8  | RPD = 12 |
| CalAmt %D:               |       |        |        | 9.7    |          | CalAmt %D:               |        |        |        | -1.3   |          |
| Aroclor-1260             | 1     | 10.994 | 0.001  | 124892 | 249.9    | 1                        | 11.605 | 0.001  | 83052  | 261.0  |          |
| Aroclor-1260             | 2     | 11.311 | 0.001  | 125136 | 253.7    | 2                        | 11.871 | -0.000 | 221869 | 266.6  |          |
| Aroclor-1260             | 3     | 11.686 | 0.001  | 315553 | 255.4    | 3                        | 12.387 | 0.000  | 54852  | 265.9  |          |
| Aroclor-1260             | 4     | 12.090 | -0.000 | 157418 | 260.1    | 4                        | 12.454 | -0.001 | 147973 | 266.2  |          |
| Aroclor-1260             | 5     | 12.194 | 0.001  | 67461  | 255.7    | NS                       | ---    |        |        | ----   |          |
| Total CollAve (5 peaks): |       |        |        | 254.9  |          | Total Col2Ave (4 peaks): |        |        |        | 264.9  | RPD = 4  |
| Corrected Ave (4 peaks): |       |        |        | 253.6  |          | Corrected Ave (3 peaks): |        |        |        | 264.4  | RPD = 4  |
| CalAmt %D:               |       |        |        | 2.0    |          | CalAmt %D:               |        |        |        | 6.0    |          |

Total PCB Area Coll (5.843 - 13.740) = 3681055 Coll Total PCB = 0.6 ppm\*

Total PCB Area Col2 (5.729 - 13.967) = 2022859 Col2 Total PCB = 0.5 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

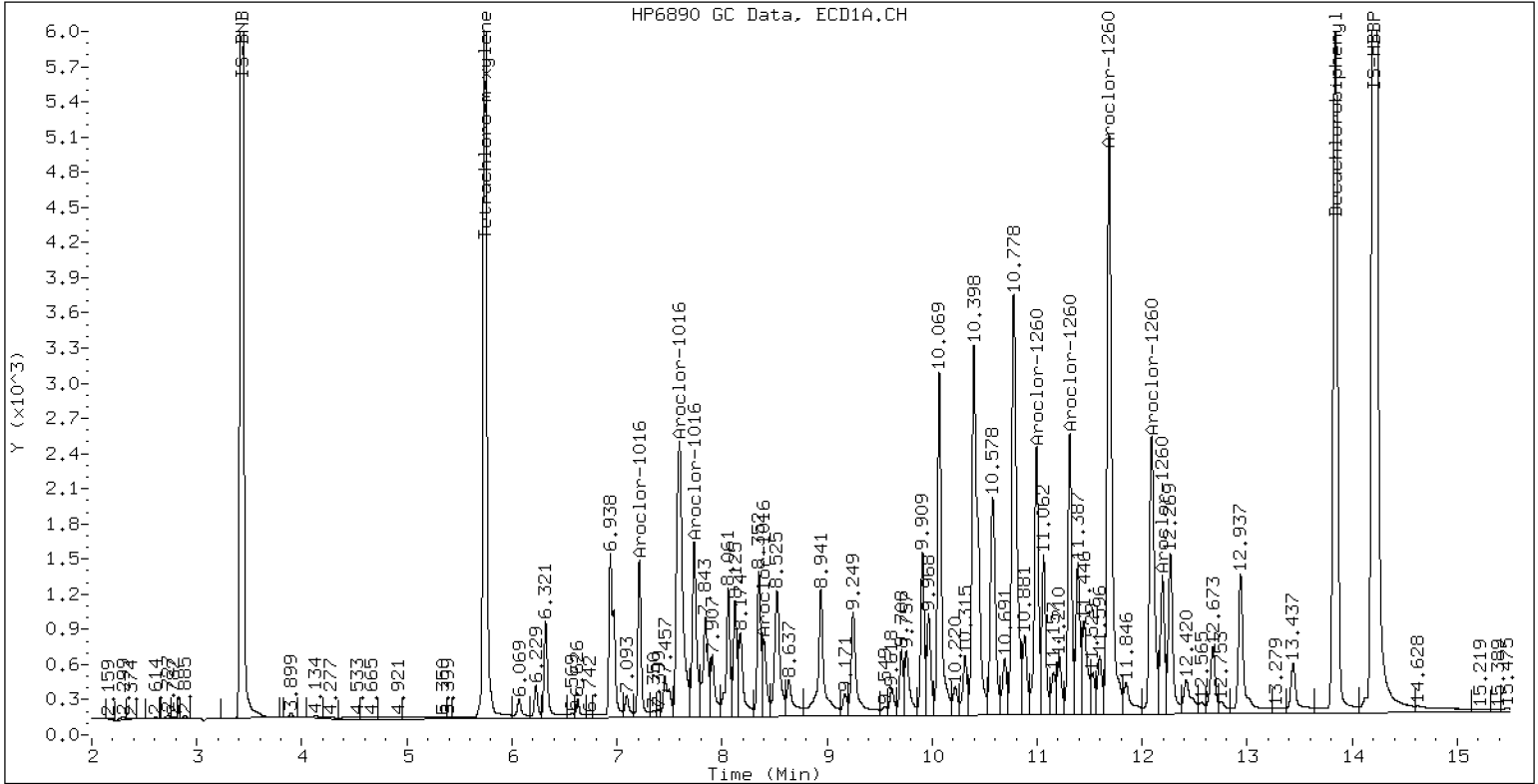
PCB-Form 10 Mod.



# PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV2

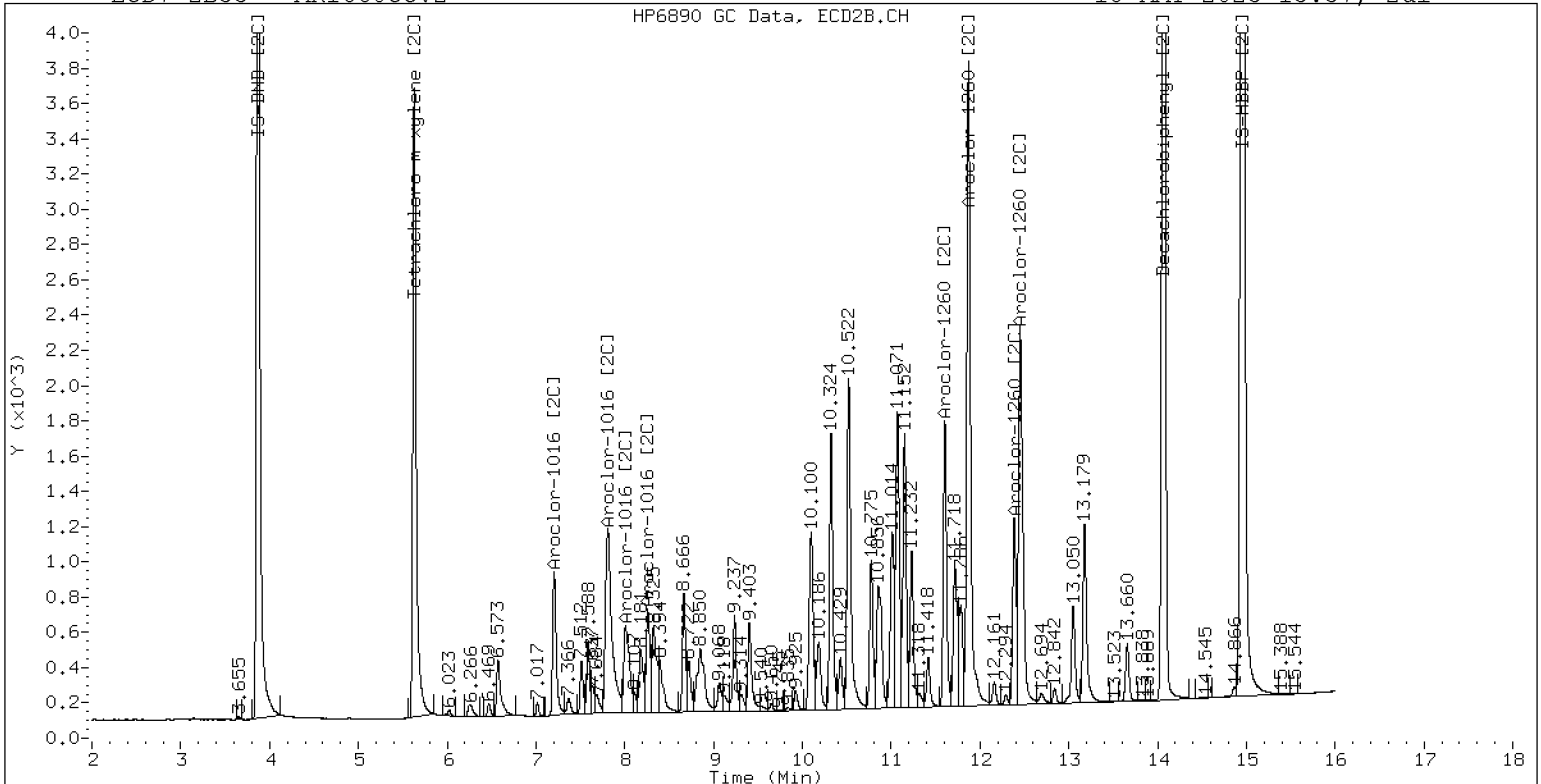
18-MAY-2023 13:37, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV2

18-MAY-2023 13:37, 2ul



ZB-35 Manual Integration: NO



**CONTINUING CALIBRATION CHECK**  
**EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GE00022</u>         |
| Lab File ID:   | <u>05182310ECD7.D</u>            | Calibration Date: | <u>05/05/2023</u>      |
| Sequence:      | <u>SLE0303</u>                   | Injection Date:   | <u>05/18/23</u>        |
| Lab Sample ID: | <u>SLE0303-CCV3</u>              | Injection Time:   | <u>14:19</u>           |
| Sequence Name: | <u>AR1242CCV3</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |         |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|---------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT   |
| Aroclor 1242               | A    | 250.00       | 248  | 0.0411165             | 0.0393456 |     | -0.9         | +/-20   |
| Aroclor-1242 (1)           | A    | 250.00       | 248  |                       | 0.0249730 |     |              |         |
| Aroclor-1242 (2)           | A    | 250.00       | 257  |                       | 0.0820037 |     |              |         |
| Aroclor-1242 (3)           | A    | 250.00       | 236  |                       | 0.0146033 |     |              |         |
| Aroclor-1242 (4)           | A    | 250.00       | 250  |                       | 0.0358024 |     |              |         |
| Aroclor 1242 [2C]          | A    | 250.00       | 247  | 0.0423236             | 0.0413297 |     | -1.2         | +/-20   |
| Aroclor-1242 (1) [2C]      | A    | 250.00       | 246  |                       | 0.0351091 |     |              |         |
| Aroclor-1242 (2) [2C]      | A    | 250.00       | 257  |                       | 0.0781906 |     |              |         |
| Aroclor-1242 (3) [2C]      | A    | 250.00       | 249  |                       | 0.0242795 |     |              |         |
| Aroclor-1242 (4) [2C]      | A    | 250.00       | 236  |                       | 0.0277398 |     |              |         |
| Decachlorobiphenyl         | A    | 40.000       | 37.4 | 0.7991406             | 0.7475588 |     | -6.5         | +/-20   |
| Tetrachlorometaxylene      | A    | 40.000       | 48.1 | 1.2048230             | 1.4496400 |     | 20.3         | +/-20   |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 42.8 | 1.1360140             | 1.2142710 |     | 7.0          | +/-20   |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 48.3 | 1.1005470             | 1.3282310 |     | 20.8         | +/-20 * |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230518.b/05182310ECD7.D  
Data file 2: /230518.b/230518.b/05182310ECD7.D  
Method: \\target\share\chem4\ecd7.i\230518.b\PCB.m  
Compound Sublist: AR1242.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1242CCV3  
Client ID:  
Injection Date: 18-MAY-2023 14:19  
Report Date: 05/18/2023 15:28  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |                | ZB35 Col |                | ZB5    | ZB35   | RPD  | Compound/Flag |      |                      |
|---------|----------------|----------|----------------|--------|--------|------|---------------|------|----------------------|
| RT      | Shift Response | RT       | Shift Response | on col | on col |      |               |      |                      |
| 5.742   | -0.002         | 436923   | 5.628          | -0.001 | 240627 | 48.1 | 48.3          | 0.3  | Tetrachloro-m-xylene |
| 13.840  | -0.000         | 368391   | 14.068         | 0.001  | 379193 | 37.4 | 42.8          | 13.3 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 602802      | 0.2  |
| Hexabromobiphenyl  | 876625         | 985584      | 12.4 |
| Column 2           |                |             |      |
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 349289         | 362327      | 3.7  |
| Hexabromobiphenyl  | 652984         | 624561      | -4.4 |

\* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 05-MAY-2023

<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |       |        | ZB35 Col |                          |       |       |       |        |         |
|--------------------------|-------|-------|-------|--------|----------|--------------------------|-------|-------|-------|--------|---------|
| Aroclor                  | Peak# | RT    | Shift | Area   | Amount   | Peak#                    | RT    | Shift | Area  | Amount |         |
| Aroclor-1242             | 1     | 7.213 | 0.001 | 47043  | 247.7    | 1                        | 7.204 | 0.000 | 39753 | 245.5  |         |
| Aroclor-1242             | 2     | 7.595 | 0.001 | 154475 | 256.6    | 2                        | 7.812 | 0.000 | 88533 | 257.0  |         |
| Aroclor-1242             | 3     | 8.399 | 0.001 | 27509  | 236.3    | 3                        | 9.122 | 0.000 | 27491 | 248.9  |         |
| Aroclor-1242             | 4     | 8.526 | 0.001 | 67443  | 250.3    | 4                        | 9.548 | 0.000 | 31409 | 236.0  |         |
| Total Col1Ave (4 peaks): |       |       |       | 247.7  |          | Total Col2Ave (4 peaks): |       |       |       | 246.9  | RPD = 0 |
| Corrected Ave (3 peaks): |       |       |       | 244.8  |          | Corrected Ave (3 peaks): |       |       |       | 243.5  | RPD = 1 |
| CalAmt %D:               |       |       |       | -0.9   |          | CalAmt %D:               |       |       |       | -1.3   |         |

Total PCB Area Col1 (5.843 - 13.740) = 1222801      Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.729 - 13.967) = 656761      Col2 Total PCB = 0.2 ppm\*

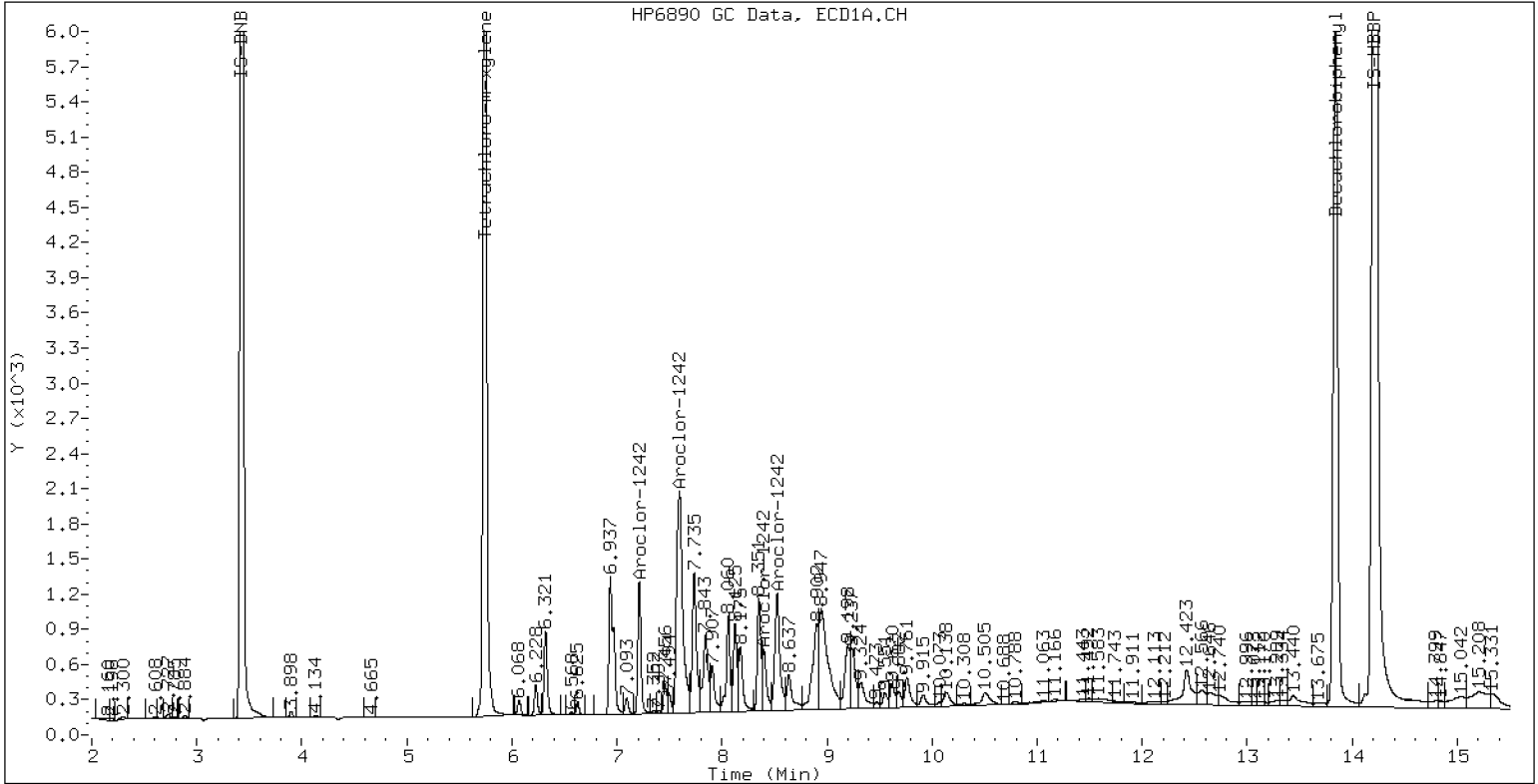
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3

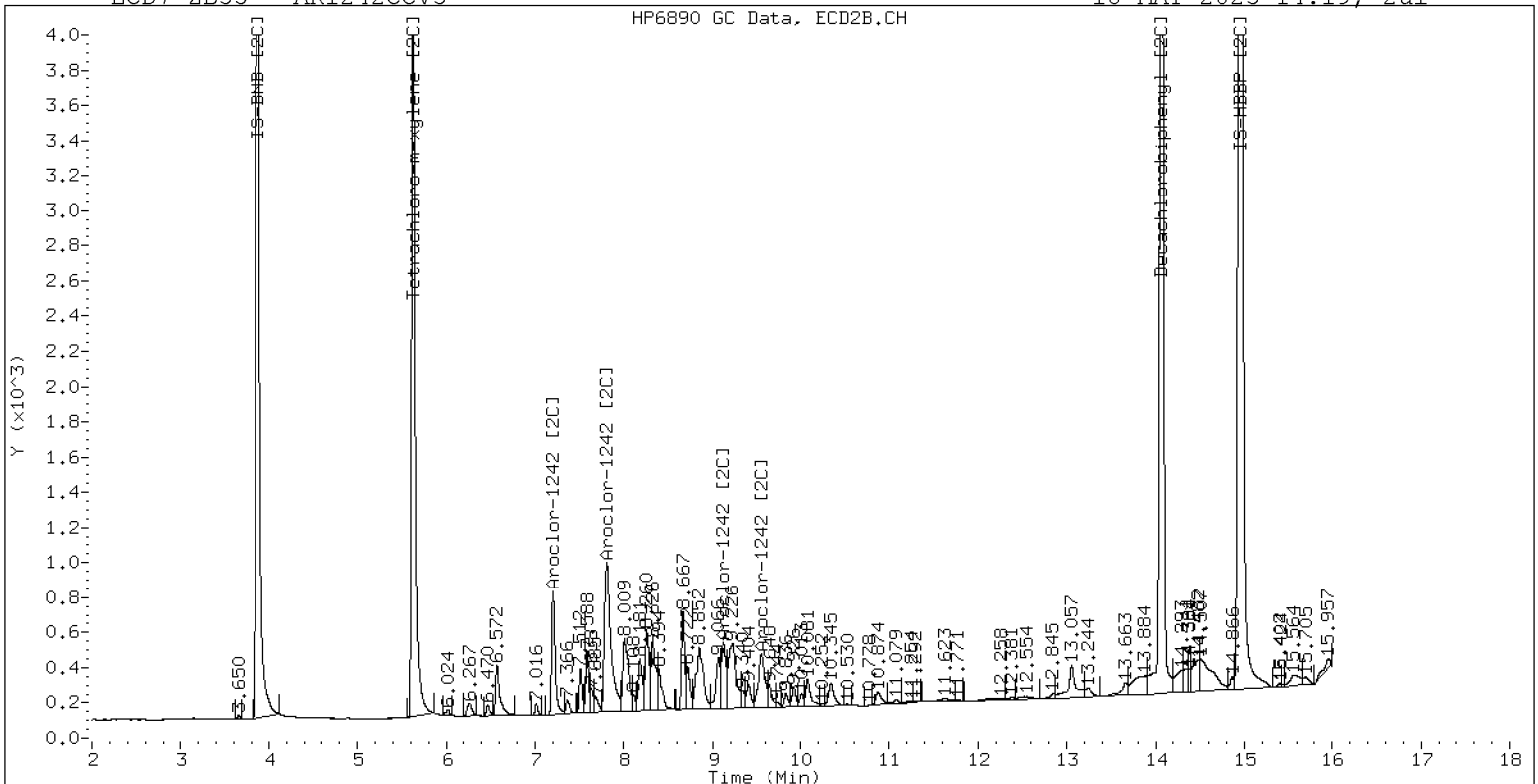
18-MAY-2023 14:19, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCV3

18-MAY-2023 14:19, 2ul



ZB-35 Manual Integration: NO



**CONTINUING CALIBRATION CHECK**  
**EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GE00022</u>         |
| Lab File ID:   | <u>05182311ECD7.D</u>            | Calibration Date: | <u>05/05/2023</u>      |
| Sequence:      | <u>SLE0303</u>                   | Injection Date:   | <u>05/18/23</u>        |
| Lab Sample ID: | <u>SLE0303-CCV4</u>              | Injection Time:   | <u>14:40</u>           |
| Sequence Name: | <u>AR1660CCV4</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1016               | A    | 250.00       | 262  | 0.0477728             | 0.0506523 |     | 4.9          | +/-20 |
| Aroclor-1016 (1)           | A    | 250.00       | 256  | 0.0309764             | 0.0317214 |     | 2.4          |       |
| Aroclor-1016 (2)           | A    | 250.00       | 271  | 0.0968611             | 0.1050178 |     | 8.4          |       |
| Aroclor-1016 (3)           | A    | 250.00       | 259  | 0.0447793             | 0.0464464 |     | 3.6          |       |
| Aroclor-1016 (4)           | A    | 250.00       | 263  | 0.0184745             | 0.0194237 |     | 5.2          |       |
| Aroclor 1016 [2C]          | A    | 250.00       | 247  | 0.0545435             | 0.0544034 |     | -1.4         | +/-20 |
| Aroclor-1016 (1) [2C]      | A    | 250.00       | 239  | 0.0452861             | 0.0433659 |     | -4.4         |       |
| Aroclor-1016 (2) [2C]      | A    | 250.00       | 258  | 0.0965080             | 0.0995457 |     | 3.2          |       |
| Aroclor-1016 (3) [2C]      | A    | 250.00       | 244  | 0.0425661             | 0.0416129 |     | -2.4         |       |
| Aroclor-1016 (4) [2C]      | A    | 250.00       | 245  | 0.0338137             | 0.0330891 |     | -2.0         |       |
| Aroclor 1260               | A    | 250.00       | 250  | 0.0524306             | 0.0527624 |     | 0.2          | +/-20 |
| Aroclor-1260 (1)           | A    | 250.00       | 246  | 0.0423031             | 0.0415897 |     | -1.6         |       |
| Aroclor-1260 (2)           | A    | 250.00       | 250  | 0.0417493             | 0.0417052 |     | 0.0          |       |
| Aroclor-1260 (3)           | A    | 250.00       | 254  | 0.1045597             | 0.1063582 |     | 1.6          |       |
| Aroclor-1260 (4)           | A    | 250.00       | 254  | 0.0512104             | 0.0520185 |     | 1.6          |       |
| Aroclor-1260 (5)           | A    | 250.00       | 248  | 0.0223305             | 0.0221405 |     | -0.8         |       |
| Aroclor 1260 [2C]          | A    | 250.00       | 258  | 0.0638471             | 0.0661574 |     | 3.3          | +/-20 |
| Aroclor-1260 (1) [2C]      | A    | 250.00       | 256  | 0.0424868             | 0.0435833 |     | 2.4          |       |
| Aroclor-1260 (2) [2C]      | A    | 250.00       | 260  | 0.1111292             | 0.1156797 |     | 4.0          |       |
| Aroclor-1260 (3) [2C]      | A    | 250.00       | 258  | 0.0275392             | 0.0284687 |     | 3.2          |       |
| Aroclor-1260 (4) [2C]      | A    | 250.00       | 259  | 0.0742331             | 0.0768980 |     | 3.6          |       |
| Decachlorobiphenyl         | A    | 40.000       | 40.1 | 0.7991406             | 0.8004268 |     | 0.3          | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 41.1 | 1.2048230             | 1.2380420 |     | 2.8          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 42.1 | 1.1360140             | 1.1957750 |     | 5.3          | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 41.3 | 1.1005470             | 1.1373110 |     | 3.3          | +/-20 |

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230518.b/05182311ECD7.D  
Data file 2: /230518.b/230518.b/05182311ECD7.D  
Method: \\target\share\chem4\ecd7.i\230518.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660CCV4  
Client ID:  
Injection Date: 18-MAY-2023 14:40  
Report Date: 05/18/2023 15:28  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |       | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|-------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift | Response | on col |      |               | on col               |
| 5.742   | -0.001 | 361036   | 5.629  | 0.000 | 196086   | 41.1   | 41.3 | 0.6           | Tetrachloro-m-xylene |
| 13.840  | -0.000 | 382628   | 14.067 | 0.000 | 370051   | 40.1   | 42.1 | 5.0           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 583237      | -3.0 |
| Hexabromobiphenyl  | 876625         | 956060      | 9.1  |
| Column 2           |                |             |      |
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 349289         | 344824      | -1.3 |
| Hexabromobiphenyl  | 652984         | 618931      | -5.2 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |        |        | ZB35 Col |                          |        |       |        |        |         |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|-------|--------|--------|---------|
| Aroclor                  | Peak# | RT     | Shift  | Area   | Amount   | Peak#                    | RT     | Shift | Area   | Amount |         |
| Aroclor-1016             | 1     | 7.213  | 0.000  | 57816  | 256.0    | 1                        | 7.204  | 0.000 | 46730  | 239.4  |         |
| Aroclor-1016             | 2     | 7.595  | 0.000  | 191407 | 271.1    | 2                        | 7.810  | 0.000 | 107268 | 257.9  |         |
| Aroclor-1016             | 3     | 7.735  | 0.000  | 84654  | 259.3    | 3                        | 8.009  | 0.000 | 44841  | 244.4  |         |
| Aroclor-1016             | 4     | 8.399  | 0.001  | 35402  | 262.8    | 4                        | 8.260  | 0.000 | 35656  | 244.6  |         |
| Total CollAve (4 peaks): |       |        |        | 262.3  |          | Total Col2Ave (4 peaks): |        |       |        | 246.6  | RPD = 6 |
| Corrected Ave (3 peaks): |       |        |        | 259.4  |          | Corrected Ave (3 peaks): |        |       |        | 242.8  | RPD = 7 |
| CalAmt %D:               |       |        |        | 4.9    |          | CalAmt %D:               |        |       |        | -1.4   |         |
| Aroclor-1260             | 1     | 10.994 | 0.001  | 124257 | 245.8    | 1                        | 11.604 | 0.000 | 84297  | 256.5  |         |
| Aroclor-1260             | 2     | 11.311 | 0.000  | 124602 | 249.7    | 2                        | 11.871 | 0.000 | 223743 | 260.2  |         |
| Aroclor-1260             | 3     | 11.686 | 0.001  | 317765 | 254.3    | 3                        | 12.387 | 0.000 | 55063  | 258.4  |         |
| Aroclor-1260             | 4     | 12.090 | -0.001 | 155415 | 253.9    | 4                        | 12.454 | 0.000 | 148733 | 259.0  |         |
| Aroclor-1260             | 5     | 12.194 | 0.000  | 66149  | 247.9    | NS                       | ---    |       |        | ----   |         |
| Total CollAve (5 peaks): |       |        |        | 250.3  |          | Total Col2Ave (4 peaks): |        |       |        | 258.5  | RPD = 3 |
| Corrected Ave (4 peaks): |       |        |        | 249.3  |          | Corrected Ave (3 peaks): |        |       |        | 258.0  | RPD = 3 |
| CalAmt %D:               |       |        |        | 0.1    |          | CalAmt %D:               |        |       |        | 3.4    |         |

Total PCB Area Col1 (5.843 - 13.740) = 3510441 Col1 Total PCB = 0.5 ppm\*

Total PCB Area Col2 (5.729 - 13.967) = 2042118 Col2 Total PCB = 0.5 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

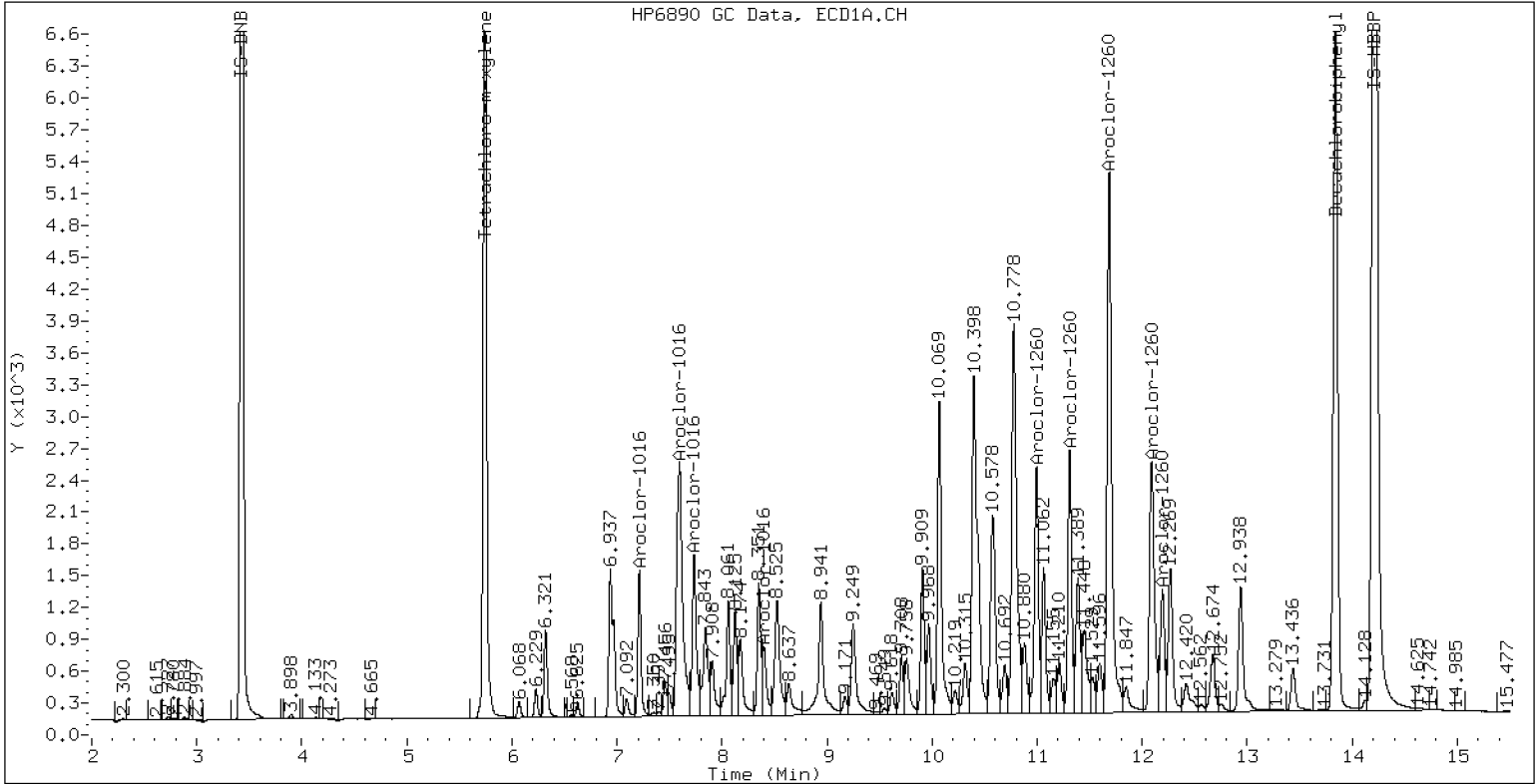
PCB-Form 10 Mod.



# PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4

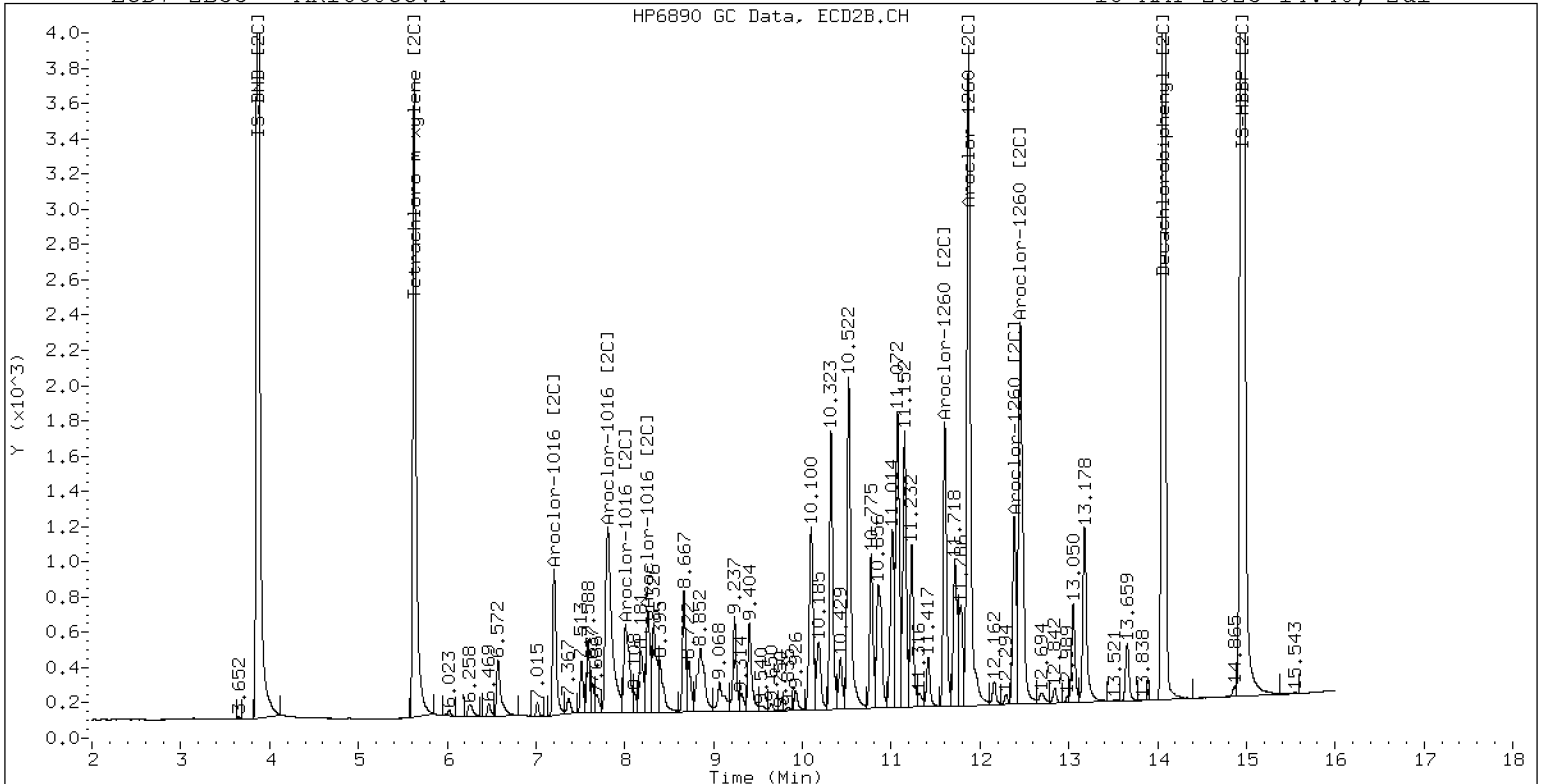
18-MAY-2023 14:40, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV4

18-MAY-2023 14:40, 2u1



ZB-35 Manual Integration: NO



**CONTINUING CALIBRATION CHECK**  
**EPA 8082A**

|                |                                  |                   |                        |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:              | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u>                      | Calibration:      | <u>GE00022</u>         |
| Lab File ID:   | <u>05312327ECD7.D</u>            | Calibration Date: | <u>05/05/2023</u>      |
| Sequence:      | <u>SLE0480</u>                   | Injection Date:   | <u>05/31/23</u>        |
| Lab Sample ID: | <u>SLE0480-CCV1</u>              | Injection Time:   | <u>21:26</u>           |
| Sequence Name: | <u>AR1248CCV1</u>                |                   |                        |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1248               | A    | 250.00       | 259  | 0.0592639             | 0.0593332 |     | 3.5          | +/-20 |
| Aroclor-1248 (1)           | A    | 250.00       | 258  |                       | 0.0210651 |     |              |       |
| Aroclor-1248 (2)           | A    | 250.00       | 252  |                       | 0.0535331 |     |              |       |
| Aroclor-1248 (3)           | A    | 250.00       | 268  |                       | 0.1092538 |     |              |       |
| Aroclor-1248 (4)           | A    | 250.00       | 257  |                       | 0.0534807 |     |              |       |
| Aroclor 1248 [2C]          | A    | 250.00       | 240  | 0.0453673             | 0.0437620 |     | -3.9         | +/-20 |
| Aroclor-1248 (1) [2C]      | A    | 250.00       | 239  |                       | 0.0363987 |     |              |       |
| Aroclor-1248 (2) [2C]      | A    | 250.00       | 236  |                       | 0.0380123 |     |              |       |
| Aroclor-1248 (3) [2C]      | A    | 250.00       | 248  |                       | 0.0467219 |     |              |       |
| Aroclor-1248 (4) [2C]      | A    | 250.00       | 238  |                       | 0.0539149 |     |              |       |
| Decachlorobiphenyl         | A    | 40.000       | 38.9 | 0.7991406             | 0.7775274 |     | -2.8         | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 38.3 | 1.2048230             | 1.1538830 |     | -4.3         | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 40.6 | 1.1360140             | 1.1521310 |     | 1.5          | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 38.2 | 1.1005470             | 1.0496720 |     | -4.5         | +/-20 |

\* Values outside of QC limits

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230531.b/05312327ECD7.D  
Data file 2: /230531.b/230531.b/05312327ECD7.D  
Method: \\target\share\chem4\ecd7.i\230531.b\PCB.m  
Compound Sublist: AR1248.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1248CCV1  
Client ID:  
Injection Date: 31-MAY-2023 21:26  
Report Date: 06/01/2023 08:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| ZB5 Col |        | ZB35 Col |        |        | ZB5      | ZB35   | RPD  | Compound/Flag |                      |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT      | Shift  | Response | RT     | Shift  | Response | on col |      |               | on col               |
| 5.743   | -0.000 | 380854   | 5.631  | -0.002 | 201198   | 38.3   | 38.2 | 0.4           | Tetrachloro-m-xylene |
| 13.842  | 0.002  | 352971   | 14.070 | 0.000  | 327230   | 38.9   | 40.6 | 4.1           | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |       |
|--------------------|----------------|-------------|-------|
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 601474         | 660126      | 9.8   |
| Hexabromobiphenyl  | 876625         | 907932      | 3.6   |
| Column 2           |                |             |       |
| Standard Cpnd      | Standard Area* | Sample Area | %D    |
| Bromo-Nitrobenzene | 349289         | 383354      | 9.8   |
| Hexabromobiphenyl  | 652984         | 568043      | -13.0 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023

<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |       |       |        |                          | ZB35 Col |       |       |       |         |  |
|--------------------------|-------|-------|-------|--------|--------------------------|----------|-------|-------|-------|---------|--|
| Aroclor                  | Peak# | RT    | Shift | Area   | Amount                   | Peak#    | RT    | Shift | Area  | Amount  |  |
| Aroclor-1248             | 1     | 8.400 | 0.000 | 43455  | 257.9                    | 1        | 8.262 | 0.000 | 43605 | 239.1   |  |
| Aroclor-1248             | 2     | 8.527 | 0.003 | 110433 | 252.2                    | 2        | 8.670 | 0.000 | 45538 | 236.4   |  |
| Aroclor-1248             | 3     | 8.946 | 0.001 | 225379 | 267.7                    | 3        | 9.124 | 0.000 | 55972 | 247.9   |  |
| Aroclor-1248             | 4     | 9.243 | 0.003 | 110325 | 257.0                    | 4        | 9.551 | 0.000 | 64589 | 238.5   |  |
| Total CollAve (4 peaks): |       |       |       | 258.7  | Total Col2Ave (4 peaks): |          |       |       | 240.5 | RPD = 7 |  |
| Corrected Ave (3 peaks): |       |       |       | 255.7  | Corrected Ave (3 peaks): |          |       |       | 238.0 | RPD = 7 |  |
| CalAmt %D:               |       |       |       | 3.5    | CalAmt %D:               |          |       |       | -3.8  |         |  |

Total PCB Area Col1 (5.843 - 13.740) = 1705305 Col1 Total PCB = 0.2 ppm\*

Total PCB Area Col2 (5.733 - 13.970) = 879879 Col2 Total PCB = 0.2 ppm\*

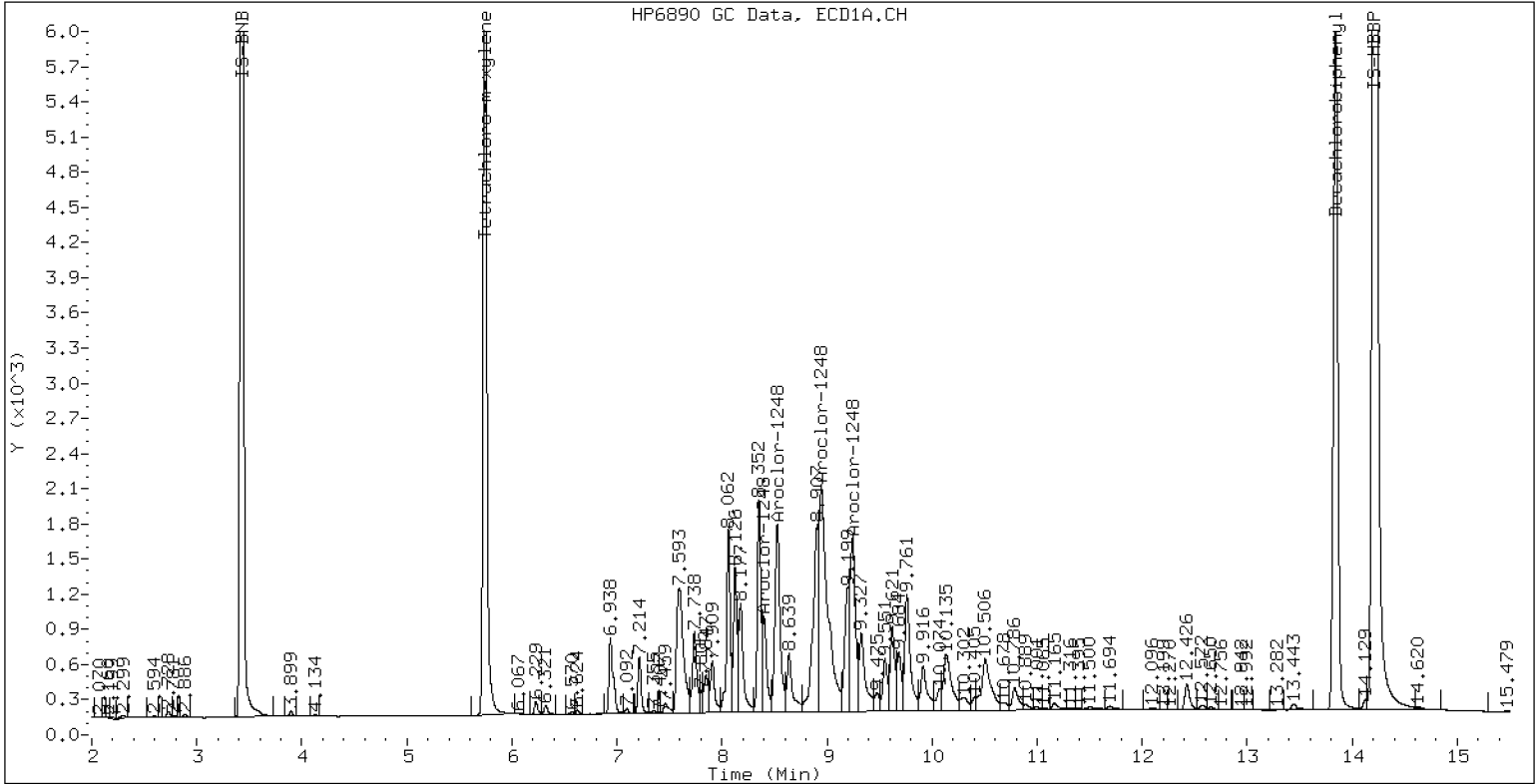
\* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

# PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1

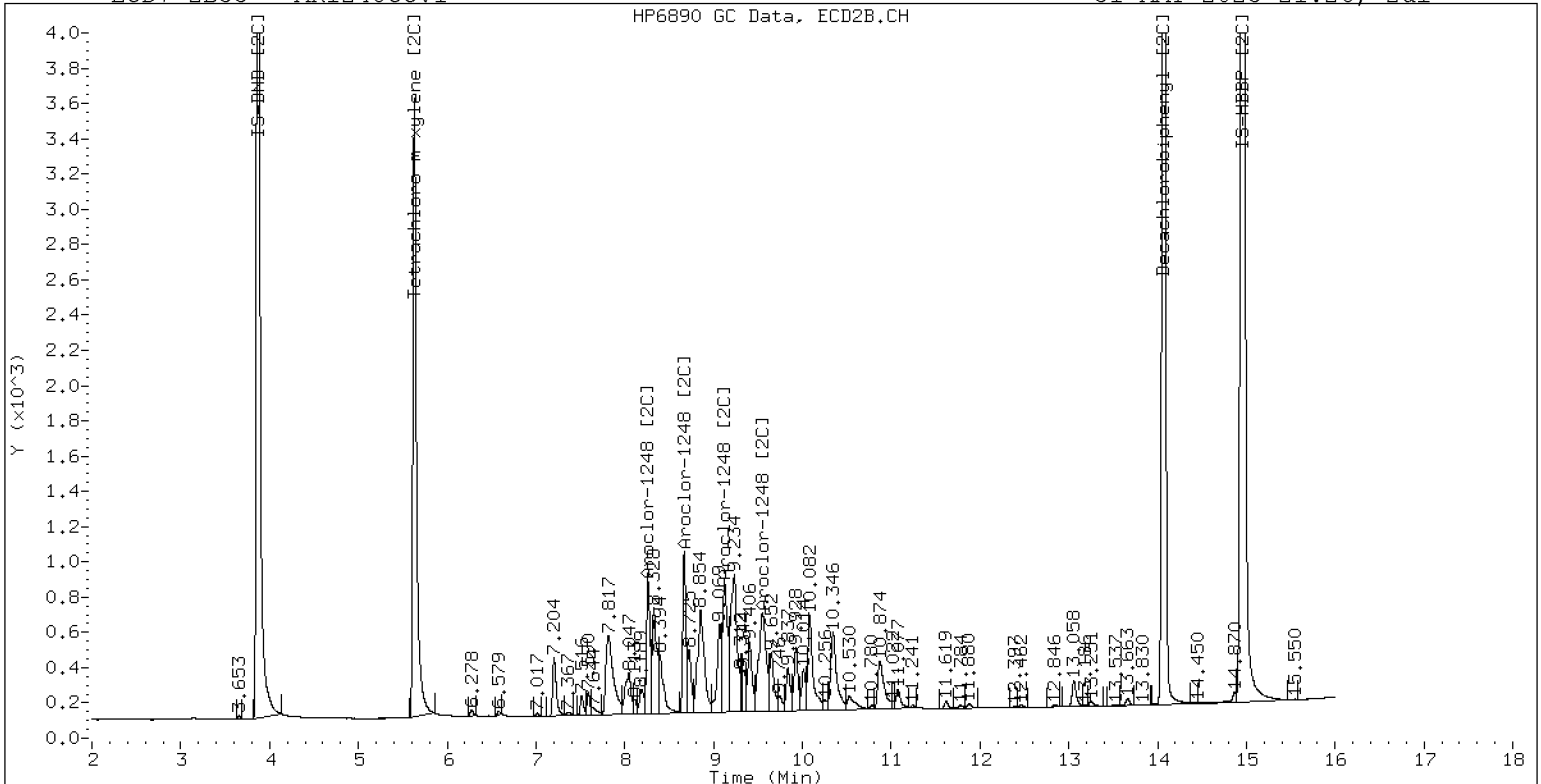
31-MAY-2023 21:26, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV1

31-MAY-2023 21:26, 2ul



ZB-35 Manual Integration: NO



## CONTINUING CALIBRATION CHECK EPA 8082A

|  |                                     |
|--|-------------------------------------|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0179</u>                 |
| Client: <u>Anchor QEA, LLC</u>               | Project: <u>AOC5 MR Phase 1</u>     |
| Instrument ID: <u>ECD7</u>                   | Calibration: <u>GE00022</u>         |
| Lab File ID: <u>05312328ECD7.D</u>           | Calibration Date: <u>05/05/2023</u> |
| Sequence: <u>SLE0480</u>                     | Injection Date: <u>05/31/23</u>     |
| Lab Sample ID: <u>SLE0480-CCV2</u>           | Injection Time: <u>21:47</u>        |
| Sequence Name: <u>AR1660CCV2</u>             |                                     |

| COMPOUND                   | TYPE | CONC. (ug/L) |      | RESPONSE FACTOR (RRF) |           |     | % DRIFT/DIFF |       |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
|                            |      | STD          | CCV  | ICAL                  | CCV       | MIN | CCV          | LIMIT |
| Aroclor 1016               | A    | 250.00       | 267  | 0.0477728             | 0.0511761 |     | 6.9          | +/-20 |
| Aroclor-1016 (1)           | A    | 250.00       | 257  | 0.0309764             | 0.0319021 |     | 2.8          |       |
| Aroclor-1016 (2)           | A    | 250.00       | 268  | 0.0968611             | 0.1038093 |     | 7.2          |       |
| Aroclor-1016 (3)           | A    | 250.00       | 273  | 0.0447793             | 0.0489482 |     | 9.2          |       |
| Aroclor-1016 (4)           | A    | 250.00       | 271  | 0.0184745             | 0.0200448 |     | 8.4          |       |
| Aroclor 1016 [2C]          | A    | 250.00       | 255  | 0.0545435             | 0.0555436 |     | 1.9          | +/-20 |
| Aroclor-1016 (1) [2C]      | A    | 250.00       | 240  | 0.0452861             | 0.0434769 |     | -4.0         |       |
| Aroclor-1016 (2) [2C]      | A    | 250.00       | 253  | 0.0965080             | 0.0977497 |     | 1.2          |       |
| Aroclor-1016 (3) [2C]      | A    | 250.00       | 278  | 0.0425661             | 0.0474165 |     | 11.2         |       |
| Aroclor-1016 (4) [2C]      | A    | 250.00       | 248  | 0.0338137             | 0.0335313 |     | -0.8         |       |
| Aroclor 1260               | A    | 250.00       | 263  | 0.0524306             | 0.0553377 |     | 5.0          | +/-20 |
| Aroclor-1260 (1)           | A    | 250.00       | 260  | 0.0423031             | 0.0440959 |     | 4.0          |       |
| Aroclor-1260 (2)           | A    | 250.00       | 264  | 0.0417493             | 0.0440563 |     | 5.6          |       |
| Aroclor-1260 (3)           | A    | 250.00       | 265  | 0.1045597             | 0.1110202 |     | 6.0          |       |
| Aroclor-1260 (4)           | A    | 250.00       | 266  | 0.0512104             | 0.0544338 |     | 6.4          |       |
| Aroclor-1260 (5)           | A    | 250.00       | 258  | 0.0223305             | 0.0230823 |     | 3.2          |       |
| Aroclor 1260 [2C]          | A    | 250.00       | 275  | 0.0638471             | 0.0703840 |     | 9.8          | +/-20 |
| Aroclor-1260 (1) [2C]      | A    | 250.00       | 274  | 0.0424868             | 0.0465809 |     | 9.6          |       |
| Aroclor-1260 (2) [2C]      | A    | 250.00       | 277  | 0.1111292             | 0.1231944 |     | 10.8         |       |
| Aroclor-1260 (3) [2C]      | A    | 250.00       | 271  | 0.0275392             | 0.0298875 |     | 8.4          |       |
| Aroclor-1260 (4) [2C]      | A    | 250.00       | 276  | 0.0742331             | 0.0818730 |     | 10.4         |       |
| Decachlorobiphenyl         | A    | 40.000       | 41.0 | 0.7991406             | 0.8186790 |     | 2.5          | +/-20 |
| Tetrachlorometaxylene      | A    | 40.000       | 40.9 | 1.2048230             | 1.2329580 |     | 2.3          | +/-20 |
| Decachlorobiphenyl [2C]    | A    | 40.000       | 42.0 | 1.1360140             | 1.1941580 |     | 5.0          | +/-20 |
| Tetrachlorometaxylene [2C] | A    | 40.000       | 40.3 | 1.1005470             | 1.1088130 |     | 0.8          | +/-20 |

\* Values outside of QC limits

Analytical Resources Inc.  
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230531.b/05312328ECD7.D  
Data file 2: /230531.b/230531.b/05312328ECD7.D  
Method: \\target\share\chem4\ecd7.i\230531.b\PCB.m  
Compound Sublist: AR1660.sub  
Instrument, Inj. Vol.: ecd7.i, 2ul  
Quant Method: Internal Std

ARI ID: AR1660CCV2  
Client ID:  
Injection Date: 31-MAY-2023 21:47  
Report Date: 06/01/2023 08:30  
Matrix: NONE  
Dilution Factor: 1.0

SURROGATES

| RT     | ZB5 Col Shift | Response | RT     | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag        |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.745  | 0.002         | 416498   | 5.633  | 0.000          | 212646   | 40.9       | 40.3        | 1.6 | Tetrachloro-m-xylene |
| 13.842 | 0.002         | 446668   | 14.070 | 0.000          | 385909   | 41.0       | 42.0        | 2.6 | Decachlorobiphenyl   |

\* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1           |                |             |      |
|--------------------|----------------|-------------|------|
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 601474         | 675608      | 12.3 |
| Hexabromobiphenyl  | 876625         | 1091192     | 24.5 |
| Column 2           |                |             |      |
| Standard Cpnd      | Standard Area* | Sample Area | %D   |
| Bromo-Nitrobenzene | 349289         | 383556      | 9.8  |
| Hexabromobiphenyl  | 652984         | 646328      | -1.0 |

\* Standard Areas taken from Initial Cal Level 3  
Initial Calibration Date: 05-MAY-2023  
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col                  |       |        |       |        | ZB35 Col |                          |        |       |        |               |
|--------------------------|-------|--------|-------|--------|----------|--------------------------|--------|-------|--------|---------------|
| Aroclor                  | Peak# | RT     | Shift | Area   | Amount   | Peak#                    | RT     | Shift | Area   | Amount        |
| Aroclor-1016             | 1     | 7.215  | 0.002 | 67354  | 257.5    | 1                        | 7.207  | 0.000 | 52112  | 240.0         |
| Aroclor-1016             | 2     | 7.599  | 0.004 | 219170 | 267.9    | 2                        | 7.815  | 0.000 | 117164 | 253.2         |
| Aroclor-1016             | 3     | 7.737  | 0.003 | 103343 | 273.3    | 3                        | 8.014  | 0.000 | 56834  | 278.5         |
| Aroclor-1016             | 4     | 8.400  | 0.001 | 42320  | 271.2    | 4                        | 8.263  | 0.000 | 40191  | 247.9         |
| Total CollAve (4 peaks): |       |        |       | 267.5  |          | Total Col2Ave (4 peaks): |        |       |        | 254.9 RPD = 5 |
| Corrected Ave (3 peaks): |       |        |       | 265.6  |          | Corrected Ave (3 peaks): |        |       |        | 247.0 RPD = 7 |
| CalAmt %D:               |       |        |       | 7.0    |          | CalAmt %D:               |        |       |        | 2.0           |
| Aroclor-1260             | 1     | 10.996 | 0.002 | 150366 | 260.6    | 1                        | 11.607 | 0.000 | 94083  | 274.1         |
| Aroclor-1260             | 2     | 11.312 | 0.002 | 150231 | 263.8    | 2                        | 11.874 | 0.000 | 248825 | 277.1         |
| Aroclor-1260             | 3     | 11.690 | 0.005 | 378576 | 265.4    | 3                        | 12.390 | 0.000 | 60366  | 271.3         |
| Aroclor-1260             | 4     | 12.092 | 0.002 | 185618 | 265.7    | 4                        | 12.457 | 0.000 | 165365 | 275.7         |
| Aroclor-1260             | 5     | 12.196 | 0.002 | 78710  | 258.4    | NS                       | ---    |       |        | ----          |
| Total CollAve (5 peaks): |       |        |       | 262.8  |          | Total Col2Ave (4 peaks): |        |       |        | 274.6 RPD = 4 |
| Corrected Ave (4 peaks): |       |        |       | 262.1  |          | Corrected Ave (3 peaks): |        |       |        | 273.7 RPD = 4 |
| CalAmt %D:               |       |        |       | 5.1    |          | CalAmt %D:               |        |       |        | 9.8           |

Total PCB Area Coll (5.843 - 13.740) = 4185800 Coll Total PCB = 0.6 ppm\*

Total PCB Area Col2 (5.733 - 13.970) = 2263627 Col2 Total PCB = 0.5 ppm\*

\* Quantitated against AR1660 0.25ppm in Ical

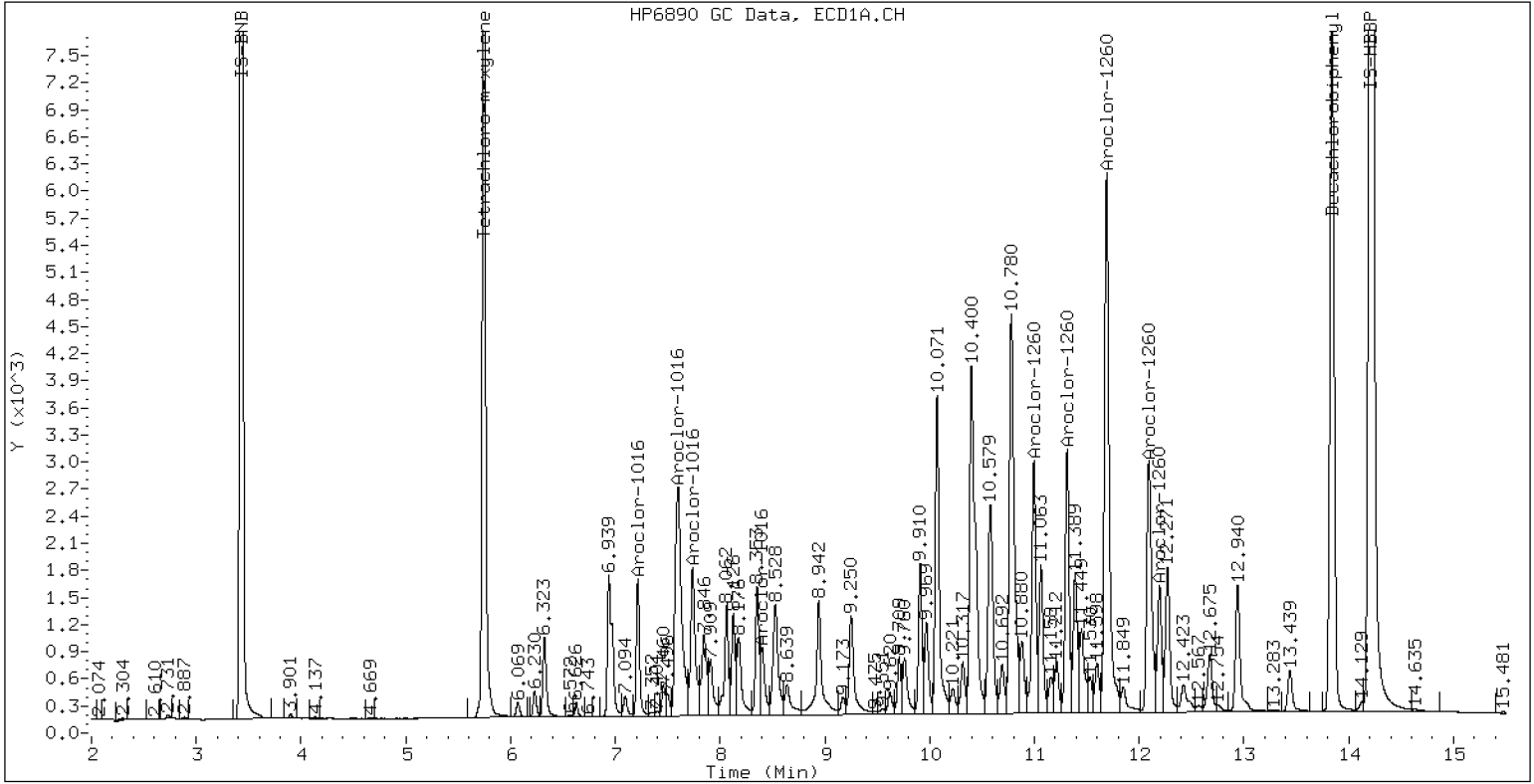
PCB-Form 10 Mod.



# PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV2

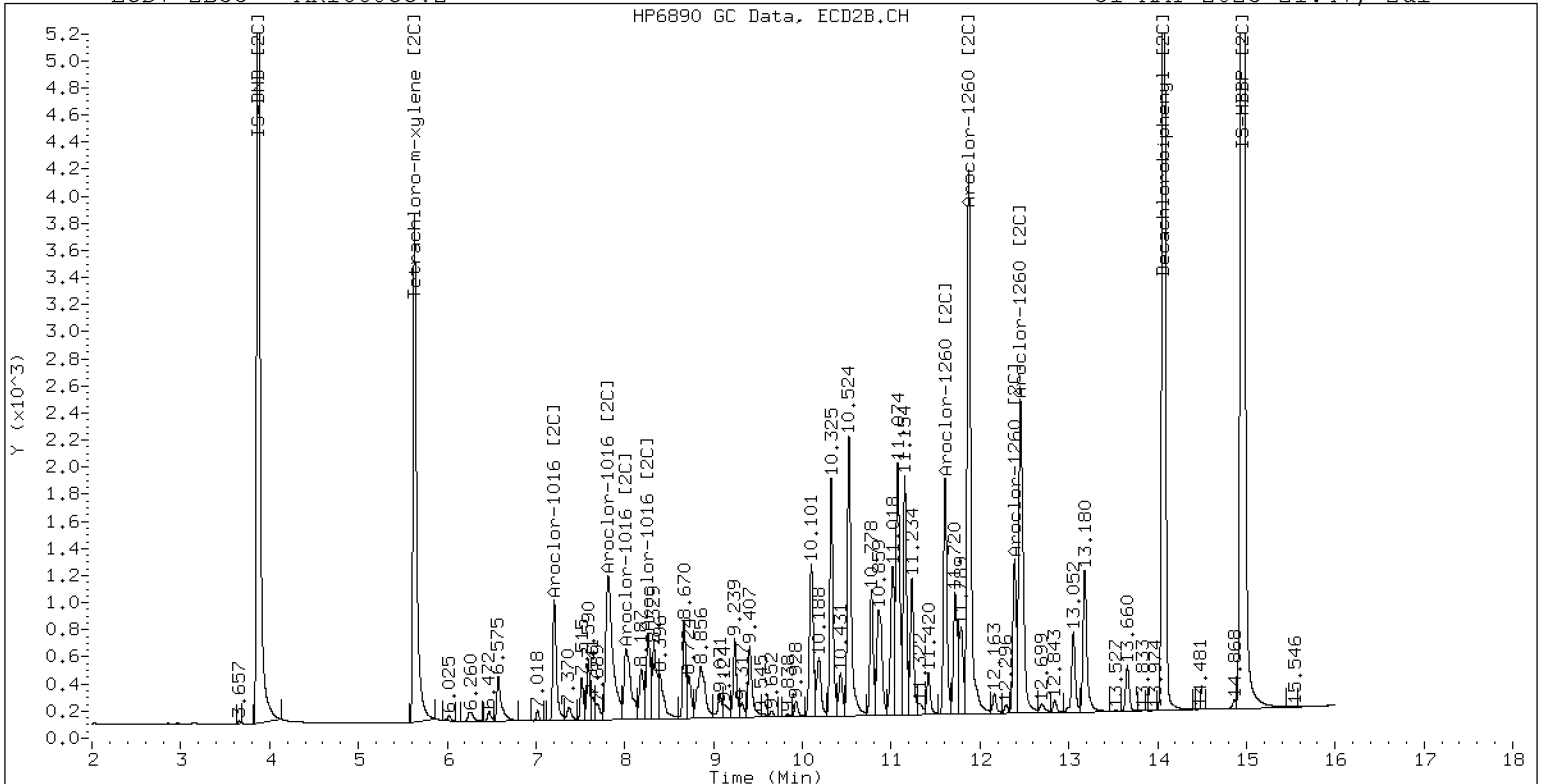
31-MAY-2023 21:47, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV2

31-MAY-2023 21:47, 2ul



ZB-35 Manual Integration: NO



**Dual Column**  
**ANALYSIS BATCH (SEQUENCE) SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLA0281

Instrument: ECD7

Calibration: GA00061

| Sample Name         | Lab Sample ID | Column 1 File ID | Column 2 File ID | Matrix | Analysis Date/Time |
|---------------------|---------------|------------------|------------------|--------|--------------------|
| Cal Standard        | SLA0281-CAL1  | 01242313ECD7.D   | 01242313ECD7.D   | NA     | 01/24/23 16:00     |
| Cal Standard        | SLA0281-CAL2  | 01242314ECD7.D   | 01242314ECD7.D   | NA     | 01/24/23 16:21     |
| Cal Standard        | SLA0281-CAL3  | 01242315ECD7.D   | 01242315ECD7.D   | NA     | 01/24/23 16:42     |
| Cal Standard        | SLA0281-CAL4  | 01242316ECD7.D   | 01242316ECD7.D   | NA     | 01/24/23 17:03     |
| Cal Standard        | SLA0281-CAL5  | 01242317ECD7.D   | 01242317ECD7.D   | NA     | 01/24/23 17:24     |
| Cal Standard        | SLA0281-CAL6  | 01242318ECD7.D   | 01242318ECD7.D   | NA     | 01/24/23 17:45     |
| Cal Standard        | SLA0281-CAL7  | 01242319ECD7.D   | 01242319ECD7.D   | NA     | 01/24/23 18:06     |
| Cal Standard        | SLA0281-CAL8  | 01242320ECD7.D   | 01242320ECD7.D   | NA     | 01/24/23 18:27     |
| Cal Standard        | SLA0281-CAL9  | 01242321ECD7.D   | 01242321ECD7.D   | NA     | 01/24/23 18:48     |
| Cal Standard        | SLA0281-CALA  | 01242322ECD7.D   | 01242322ECD7.D   | NA     | 01/24/23 19:09     |
| Cal Standard        | SLA0281-CALB  | 01242323ECD7.D   | 01242323ECD7.D   | NA     | 01/24/23 19:30     |
| Secondary Cal Check | SLA0281-SCV1  | 01242324ECD7.D   | 01242324ECD7.D   | NA     | 01/24/23 19:51     |
| Secondary Cal Check | SLA0281-SCV2  | 01242325ECD7.D   | 01242325ECD7.D   | NA     | 01/24/23 20:12     |
| Secondary Cal Check | SLA0281-SCV3  | 01242326ECD7.D   | 01242326ECD7.D   | NA     | 01/24/23 20:33     |
| Secondary Cal Check | SLA0281-SCV4  | 01242327ECD7.D   | 01242327ECD7.D   | NA     | 01/24/23 20:54     |
| Secondary Cal Check | SLA0281-SCV5  | 01242328ECD7.D   | 01242328ECD7.D   | NA     | 01/24/23 21:15     |
| Secondary Cal Check | SLA0281-SCV6  | 01242329ECD7.D   | 01242329ECD7.D   | NA     | 01/24/23 21:36     |

Security Status Report

Date: 26-Jan-2023 15:41

|                |             |                             |
|----------------|-------------|-----------------------------|
| 01242330ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242331ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242332ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242333ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242334ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242335ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242336ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242337ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242338ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242339ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242340ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242341ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242342ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242343ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242344ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242345ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242346ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242347ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242348ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242349ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242350ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242351ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242352ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242353ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242354ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242355ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242356ECD7.D | Data Locked | richardl, 26-Jan-2023 15:41 |
| 01242357ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242358ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242359ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242360ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242361ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242362ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242363ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242364ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242365ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242366ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242367ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242368ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242369ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242370ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242371ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242372ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242373ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |

|                |             |                             |
|----------------|-------------|-----------------------------|
| 01242374ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242375ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242376ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242377ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242378ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242379ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242380ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242381ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242382ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242383ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242384ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242385ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242386ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242387ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242388ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242389ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242390ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242391ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |



**Dual Column**  
**ANALYSIS BATCH (SEQUENCE) SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0084

Instrument: ECD7

Calibration: GA00061

| Sample Name       | Lab Sample ID | Column 1 File ID | Column 2 File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|------------------|--------|--------------------|
| Initial Cal Check | SLB0084-ICV1  | 02042302ECD7.D   | 02042302ECD7.D   | NA     | 02/04/23 16:16     |
| Initial Cal Check | SLB0084-ICV2  | 02042303ECD7.D   | 02042303ECD7.D   | NA     | 02/04/23 16:37     |
| Calibration Check | SLB0084-CCV1  | 02042313ECD7.D   | 02042313ECD7.D   | NA     | 02/04/23 20:08     |
| Calibration Check | SLB0084-CCV2  | 02042314ECD7.D   | 02042314ECD7.D   | NA     | 02/04/23 20:29     |
| Blank             | BLA0558-BLK1  | 02042315ECD7.D   | 02042315ECD7.D   | Solid  | 02/04/23 20:50     |
| LCS               | BLA0558-BS1   | 02042316ECD7.D   | 02042316ECD7.D   | Solid  | 02/04/23 21:11     |
| LCS Dup           | BLA0558-BSD1  | 02042317ECD7.D   | 02042317ECD7.D   | Solid  | 02/04/23 21:32     |
| Reference         | BLA0558-SRM1  | 02042318ECD7.D   | 02042318ECD7.D   | Solid  | 02/04/23 21:53     |
| LDW23-SS1277      | 23A0179-01    | 02042319ECD7.D   | 02042319ECD7.D   | Solid  | 02/04/23 22:14     |
| LDW23-SS1271      | 23A0179-02    | 02042320ECD7.D   | 02042320ECD7.D   | Solid  | 02/04/23 22:35     |
| LDW23-SS1266      | 23A0179-03    | 02042321ECD7.D   | 02042321ECD7.D   | Solid  | 02/04/23 22:57     |
| LDW23-SS1248      | 23A0179-04    | 02042322ECD7.D   | 02042322ECD7.D   | Solid  | 02/04/23 23:18     |
| LDW23-SS1239      | 23A0179-05    | 02042323ECD7.D   | 02042323ECD7.D   | Solid  | 02/04/23 23:39     |
| LDW23-SS1213      | 23A0179-06    | 02042324ECD7.D   | 02042324ECD7.D   | Solid  | 02/05/23 00:00     |
| LDW23-SS1200      | 23A0179-07    | 02042325ECD7.D   | 02042325ECD7.D   | Solid  | 02/05/23 00:21     |
| LDW23-SS1178      | 23A0179-08    | 02042326ECD7.D   | 02042326ECD7.D   | Solid  | 02/05/23 00:42     |
| LDW23-SS1178      | BLA0558-MS1   | 02042327ECD7.D   | 02042327ECD7.D   | Solid  | 02/05/23 01:03     |
| LDW23-SS1178      | BLA0558-MSD1  | 02042328ECD7.D   | 02042328ECD7.D   | Solid  | 02/05/23 01:24     |
| Calibration Check | SLB0084-CCV3  | 02042329ECD7.D   | 02042329ECD7.D   | NA     | 02/05/23 01:45     |
| Calibration Check | SLB0084-CCV4  | 02042330ECD7.D   | 02042330ECD7.D   | NA     | 02/05/23 02:06     |
| Calibration Check | SLB0084-CCV5  | 02042345ECD7.D   | 02042345ECD7.D   | NA     | 02/05/23 07:23     |
| Calibration Check | SLB0084-CCV6  | 02042346ECD7.D   | 02042346ECD7.D   | NA     | 02/05/23 07:44     |
| Calibration Check | SLB0084-CCV7  | 02042358ECD7.D   | 02042358ECD7.D   | NA     | 02/05/23 11:57     |
| Calibration Check | SLB0084-CCV8  | 02042359ECD7.D   | 02042359ECD7.D   | NA     | 02/05/23 12:18     |



ANALYSIS SEQUENCE

SLB0084

Instrument: ECD7  
Calibration ID: GA00061

Printed: 2/7/2023 9:00:13AM

| Lab Number   | Analysis          | Container | Order | Position | STD ID  | ISTD ID | Client          | Comments |
|--------------|-------------------|-----------|-------|----------|---------|---------|-----------------|----------|
| SLB0084-ICV1 | QC                |           | 1     |          | L000862 | L000844 |                 |          |
| SLB0084-ICV2 | QC                |           | 2     |          | L000856 | L000844 |                 |          |
| 23A0157-02   | 8082A PCB Solid 4 | A 03      | 3     |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0157-04   | 8082A PCB Solid 4 | A 03      | 4     |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0157-08   | 8082A PCB Solid 4 | A 03      | 5     |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0157-09   | 8082A PCB Solid 4 | A 03      | 6     |          |         | L000844 | Anchor QEA, LLC |          |
| BLA0475-MS1  | QC                |           | 7     |          |         | L000844 |                 |          |
| SLB0084-CCV1 | QC                |           | 8     |          | L000861 | L000844 |                 |          |
| SLB0084-CCV2 | QC                |           | 9     |          | L000856 | L000844 |                 |          |
| BLA0558-BLK1 | QC                |           | 10    |          |         | L000844 |                 |          |
| BLA0558-BS1  | QC                |           | 11    |          |         | L000844 |                 |          |
| BLA0558-BSD1 | QC                |           | 12    |          |         | L000844 |                 |          |
| BLA0558-SRM1 | QC                |           | 13    |          |         | L000844 |                 |          |
| 23A0179-01   | 8082A PCB Solid 4 | A 03      | 14    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0179-02   | 8082A PCB Solid 4 | A 03      | 15    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0179-03   | 8082A PCB Solid 4 | A 03      | 16    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0179-04   | 8082A PCB Solid 4 | A 03      | 17    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0179-05   | 8082A PCB Solid 4 | A 03      | 18    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0179-06   | 8082A PCB Solid 4 | A 03      | 19    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0179-07   | 8082A PCB Solid 4 | A 03      | 20    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0179-08   | 8082A PCB Solid 4 | A 03      | 21    |          |         | L000844 | Anchor QEA, LLC |          |

Samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

Data Processed By \_\_\_\_\_ Date \_\_\_\_\_



**ANALYSIS SEQUENCE**

**SLB0084**

Instrument: ECD7  
Calibration ID: GA00061

**Printed: 2/7/2023 9:00:13AM**

| Lab Number   | Analysis          | Container | Order | Position | STD ID  | ISTD ID | Client          | Comments |
|--------------|-------------------|-----------|-------|----------|---------|---------|-----------------|----------|
| BLA0558-MS1  | QC                |           | 22    |          |         | L000844 |                 |          |
| BLA0558-MSD1 | QC                |           | 23    |          |         | L000844 |                 |          |
| SLB0084-CCV3 | QC                |           | 24    |          | L000860 | L000844 |                 |          |
| SLB0084-CCV4 | QC                |           | 25    |          | L000856 | L000844 |                 |          |
| 23A0180-04   | 8082A PCB Solid 4 | A 03      | 26    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0180-05   | 8082A PCB Solid 4 | A 01      | 27    |          |         | L000844 | Anchor QEA, LLC |          |
| SLB0084-CCV5 | QC                |           | 28    |          | L000862 | L000844 |                 |          |
| SLB0084-CCV6 | QC                |           | 29    |          | L000856 | L000844 |                 |          |
| 23A0180-09   | 8082A PCB Solid 4 | A 01      | 30    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0180-13   | 8082A PCB Solid 4 | A 01      | 31    |          |         | L000844 | Anchor QEA, LLC |          |
| SLB0084-CCV7 | QC                |           | 32    |          | L000861 | L000844 |                 |          |
| SLB0084-CCV8 | QC                |           | 33    |          | L000856 | L000844 |                 |          |

Samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

Data Processed By \_\_\_\_\_ Date \_\_\_\_\_

## GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230204.b

|    | Inject      | Date/Time | Filename       | DF | LabID        | ClientID |
|----|-------------|-----------|----------------|----|--------------|----------|
| 1  | 04-FEB-2023 | 15:55     | 02042301ECD7.D | 1  | DDTS         |          |
| 2  | 04-FEB-2023 | 16:16     | 02042302ECD7.D | 1  | AR1254ICV1   |          |
| 3  | 04-FEB-2023 | 16:37     | 02042303ECD7.D | 1  | AR1660ICV2   |          |
| 4  | 04-FEB-2023 | 16:58     | 02042304ECD7.D | 1  | 23A0157-02   |          |
| 5  | 04-FEB-2023 | 17:19     | 02042305ECD7.D | 1  | 23A0157-04   |          |
| 6  | 04-FEB-2023 | 17:40     | 02042306ECD7.D | 1  | 23A0157-06   |          |
| 7  | 04-FEB-2023 | 18:01     | 02042307ECD7.D | 1  | 23A0157-07   |          |
| 8  | 04-FEB-2023 | 18:22     | 02042308ECD7.D | 1  | 23A0157-08   |          |
| 9  | 04-FEB-2023 | 18:43     | 02042309ECD7.D | 1  | 23A0157-09   |          |
| 10 | 04-FEB-2023 | 19:04     | 02042310ECD7.D | 1  | 23A0157-10   |          |
| 11 | 04-FEB-2023 | 19:26     | 02042311ECD7.D | 1  | BLA0475-MS1  |          |
| 12 | 04-FEB-2023 | 19:47     | 02042312ECD7.D | 1  | 23A0157-13   |          |
| 13 | 04-FEB-2023 | 20:08     | 02042313ECD7.D | 1  | AR1248CCV1   |          |
| 14 | 04-FEB-2023 | 20:29     | 02042314ECD7.D | 1  | AR1660CCV2   |          |
| 15 | 04-FEB-2023 | 20:50     | 02042315ECD7.D | 1  | BLA0558-BLK1 |          |
| 16 | 04-FEB-2023 | 21:11     | 02042316ECD7.D | 1  | BLA0558-BS1  |          |
| 17 | 04-FEB-2023 | 21:32     | 02042317ECD7.D | 1  | BLA0558-BSD1 |          |
| 18 | 04-FEB-2023 | 21:53     | 02042318ECD7.D | 1  | BLA0558-SRM1 |          |
| 19 | 04-FEB-2023 | 22:14     | 02042319ECD7.D | 1  | 23A0179-01   |          |
| 20 | 04-FEB-2023 | 22:35     | 02042320ECD7.D | 1  | 23A0179-02   |          |
| 21 | 04-FEB-2023 | 22:57     | 02042321ECD7.D | 1  | 23A0179-03   |          |
| 22 | 04-FEB-2023 | 23:18     | 02042322ECD7.D | 1  | 23A0179-04   |          |
| 23 | 04-FEB-2023 | 23:39     | 02042323ECD7.D | 1  | 23A0179-05   |          |
| 24 | 05-FEB-2023 | 00:00     | 02042324ECD7.D | 1  | 23A0179-06   |          |
| 25 | 05-FEB-2023 | 00:21     | 02042325ECD7.D | 1  | 23A0179-07   |          |
| 26 | 05-FEB-2023 | 00:42     | 02042326ECD7.D | 1  | 23A0179-08   |          |
| 27 | 05-FEB-2023 | 01:03     | 02042327ECD7.D | 1  | BLA0558-MS1  |          |
| 28 | 05-FEB-2023 | 01:24     | 02042328ECD7.D | 1  | BLA0558-MSD1 |          |
| 29 | 05-FEB-2023 | 01:45     | 02042329ECD7.D | 1  | AR1242CCV3   |          |
| 30 | 05-FEB-2023 | 02:06     | 02042330ECD7.D | 1  | AR1660CCV4   |          |
| 31 | 05-FEB-2023 | 02:28     | 02042331ECD7.D | 1  | 23A0179-09   |          |
| 32 | 05-FEB-2023 | 02:49     | 02042332ECD7.D | 1  | 23A0179-10   |          |
| 33 | 05-FEB-2023 | 03:10     | 02042333ECD7.D | 1  | 23A0179-11   |          |
| 34 | 05-FEB-2023 | 03:31     | 02042334ECD7.D | 1  | 23A0179-12   |          |
| 35 | 05-FEB-2023 | 03:52     | 02042335ECD7.D | 1  | BLA0559-BLK1 |          |
| 36 | 05-FEB-2023 | 04:13     | 02042336ECD7.D | 1  | BLA0559-BS1  |          |
| 37 | 05-FEB-2023 | 04:34     | 02042337ECD7.D | 1  | BLA0559-BSD1 |          |
| 38 | 05-FEB-2023 | 04:55     | 02042338ECD7.D | 1  | BLA0559-SRM1 |          |
| 39 | 05-FEB-2023 | 05:16     | 02042339ECD7.D | 1  | 23A0180-01   |          |
| 40 | 05-FEB-2023 | 05:37     | 02042340ECD7.D | 1  | 23A0180-02   |          |
| 41 | 05-FEB-2023 | 05:58     | 02042341ECD7.D | 1  | 23A0180-03   |          |
| 42 | 05-FEB-2023 | 06:19     | 02042342ECD7.D | 1  | 23A0180-04   |          |
| 43 | 05-FEB-2023 | 06:41     | 02042343ECD7.D | 1  | 23A0180-05   |          |
| 44 | 05-FEB-2023 | 07:02     | 02042344ECD7.D | 1  | 23A0180-06   |          |
| 45 | 05-FEB-2023 | 07:23     | 02042345ECD7.D | 1  | AR1254CCV5   |          |
| 46 | 05-FEB-2023 | 07:44     | 02042346ECD7.D | 1  | AR1660CCV6   |          |
| 47 | 05-FEB-2023 | 08:05     | 02042347ECD7.D | 1  | 23A0180-07   |          |
| 48 | 05-FEB-2023 | 08:26     | 02042348ECD7.D | 1  | 23A0180-08   |          |
| 49 | 05-FEB-2023 | 08:47     | 02042349ECD7.D | 1  | 23A0180-09   |          |
| 50 | 05-FEB-2023 | 09:08     | 02042350ECD7.D | 1  | 23A0180-10   |          |



|    | Inject      | Date/Time | Filename       | DF | LabID        | ClientID |
|----|-------------|-----------|----------------|----|--------------|----------|
| 51 | 05-FEB-2023 | 09:29     | 02042351ECD7.D | 1  | 23A0180-11   |          |
| 52 | 05-FEB-2023 | 09:50     | 02042352ECD7.D | 1  | 23A0180-12   |          |
| 53 | 05-FEB-2023 | 10:11     | 02042353ECD7.D | 1  | 23A0180-13   |          |
| 54 | 05-FEB-2023 | 10:32     | 02042354ECD7.D | 1  | 23A0180-14   |          |
| 55 | 05-FEB-2023 | 10:53     | 02042355ECD7.D | 1  | BLA0559-MS1  |          |
| 56 | 05-FEB-2023 | 11:14     | 02042356ECD7.D | 1  | BLA0559-MSD1 |          |
| 57 | 05-FEB-2023 | 11:35     | 02042357ECD7.D | 1  | 23A0180-15   |          |
| 58 | 05-FEB-2023 | 11:57     | 02042358ECD7.D | 1  | AR1248CCV7   |          |
| 59 | 05-FEB-2023 | 12:18     | 02042359ECD7.D | 1  | AR1660CCV8   |          |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230204.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 04-FEB-2023

| Time | Filename       | LabID        | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|-------------------------------|
| 1555 | 02042301ECD7.D | DDTS         |          | 1  | NO MANUAL INTEGRATION         |
| 1616 | 02042302ECD7.D | AR1254ICV1   |          | 1  | NO MANUAL INTEGRATION         |
| 1637 | 02042303ECD7.D | AR1660ICV2   |          | 1  | NO MANUAL INTEGRATION         |
| 1658 | 02042304ECD7.D | 23A0157-02   |          | 1  | Aroclor-1254,                 |
| 1719 | 02042305ECD7.D | 23A0157-04   |          | 1  | Aroclor-1254,                 |
| 1740 | 02042306ECD7.D | 23A0157-06   |          | 1  | NO MANUAL INTEGRATION         |
| 1801 | 02042307ECD7.D | 23A0157-07   |          | 1  | NO MANUAL INTEGRATION         |
| 1822 | 02042308ECD7.D | 23A0157-08   |          | 1  | Aroclor-1254,                 |
| 1843 | 02042309ECD7.D | 23A0157-09   |          | 1  | NO MANUAL INTEGRATION         |
| 1904 | 02042310ECD7.D | 23A0157-10   |          | 1  | NO MANUAL INTEGRATION         |
| 1926 | 02042311ECD7.D | BLA0475-MS1  |          | 1  | NO MANUAL INTEGRATION         |
| 1947 | 02042312ECD7.D | 23A0157-13   |          | 1  | NO MANUAL INTEGRATION         |
| 2008 | 02042313ECD7.D | AR1248CCV1   |          | 1  | NO MANUAL INTEGRATION         |
| 2029 | 02042314ECD7.D | AR1660CCV2   |          | 1  | NO MANUAL INTEGRATION         |
| 2050 | 02042315ECD7.D | BLA0558-BLK1 |          | 1  | NO MANUAL INTEGRATION         |
| 2111 | 02042316ECD7.D | BLA0558-BS1  |          | 1  | NO MANUAL INTEGRATION         |
| 2132 | 02042317ECD7.D | BLA0558-BSD1 |          | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230204.b

| Time | Filename       | LabID        | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|-------------------------------|
| 2153 | 02042318ECD7.D | BLA0558-SRM1 |          | 1  | NO MANUAL INTEGRATION         |
| 2214 | 02042319ECD7.D | 23A0179-01   |          | 1  | Aroclor-1254,                 |
| 2235 | 02042320ECD7.D | 23A0179-02   |          | 1  | Aroclor-1254,                 |
| 2257 | 02042321ECD7.D | 23A0179-03   |          | 1  | Aroclor-1254,                 |
| 2318 | 02042322ECD7.D | 23A0179-04   |          | 1  | Aroclor-1254,                 |
| 2339 | 02042323ECD7.D | 23A0179-05   |          | 1  | NO MANUAL INTEGRATION         |
| 0000 | 02042324ECD7.D | 23A0179-06   |          | 1  | NO MANUAL INTEGRATION         |
| 0021 | 02042325ECD7.D | 23A0179-07   |          | 1  | Aroclor-1254,                 |
| 0042 | 02042326ECD7.D | 23A0179-08   |          | 1  | NO MANUAL INTEGRATION         |
| 0103 | 02042327ECD7.D | BLA0558-MS1  |          | 1  | NO MANUAL INTEGRATION         |
| 0124 | 02042328ECD7.D | BLA0558-MSD1 |          | 1  | NO MANUAL INTEGRATION         |
| 0145 | 02042329ECD7.D | AR1242CCV3   |          | 1  | NO MANUAL INTEGRATION         |
| 0206 | 02042330ECD7.D | AR1660CCV4   |          | 1  | NO MANUAL INTEGRATION         |
| 0228 | 02042331ECD7.D | 23A0179-09   |          | 1  | NO MANUAL INTEGRATION         |
| 0249 | 02042332ECD7.D | 23A0179-10   |          | 1  | NO MANUAL INTEGRATION         |
| 0310 | 02042333ECD7.D | 23A0179-11   |          | 1  | NO MANUAL INTEGRATION         |
| 0331 | 02042334ECD7.D | 23A0179-12   |          | 1  | NO MANUAL INTEGRATION         |
| 0352 | 02042335ECD7.D | BLA0559-BLK1 |          | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230204.b

| Time | Filename       | LabID        | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|-------------------------------|
| 0413 | 02042336ECD7.D | BLA0559-BS1  |          | 1  | NO MANUAL INTEGRATION         |
| 0434 | 02042337ECD7.D | BLA0559-BSD1 |          | 1  | NO MANUAL INTEGRATION         |
| 0455 | 02042338ECD7.D | BLA0559-SRM1 |          | 1  | NO MANUAL INTEGRATION         |
| 0516 | 02042339ECD7.D | 23A0180-01   |          | 1  | NO MANUAL INTEGRATION         |
| 0537 | 02042340ECD7.D | 23A0180-02   |          | 1  | NO MANUAL INTEGRATION         |
| 0558 | 02042341ECD7.D | 23A0180-03   |          | 1  | NO MANUAL INTEGRATION         |
| 0619 | 02042342ECD7.D | 23A0180-04   |          | 1  | Aroclor-1254,                 |
| 0641 | 02042343ECD7.D | 23A0180-05   |          | 1  | Aroclor-1254,                 |
| 0702 | 02042344ECD7.D | 23A0180-06   |          | 1  | NO MANUAL INTEGRATION         |
| 0723 | 02042345ECD7.D | AR1254CCV5   |          | 1  | NO MANUAL INTEGRATION         |
| 0744 | 02042346ECD7.D | AR1660CCV6   |          | 1  | NO MANUAL INTEGRATION         |
| 0805 | 02042347ECD7.D | 23A0180-07   |          | 1  | NO MANUAL INTEGRATION         |
| 0826 | 02042348ECD7.D | 23A0180-08   |          | 1  | NO MANUAL INTEGRATION         |
| 0847 | 02042349ECD7.D | 23A0180-09   |          | 1  | Aroclor-1254,                 |
| 0908 | 02042350ECD7.D | 23A0180-10   |          | 1  | NO MANUAL INTEGRATION         |
| 0929 | 02042351ECD7.D | 23A0180-11   |          | 1  | NO MANUAL INTEGRATION         |
| 0950 | 02042352ECD7.D | 23A0180-12   |          | 1  | NO MANUAL INTEGRATION         |
| 1011 | 02042353ECD7.D | 23A0180-13   |          | 1  | Aroclor-1254,                 |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230204.b

| Time | Filename       | LabID        | ClientId | DF | Manually Integrated Compounds                            |
|------|----------------|--------------|----------|----|--|
| 1032 | 02042354ECD7.D | 23A0180-14   |          | 1  | NO MANUAL INTEGRATION                                    |
| 1053 | 02042355ECD7.D | BLA0559-MS1  |          | 1  | NO MANUAL INTEGRATION                                    |
| 1114 | 02042356ECD7.D | BLA0559-MSD1 |          | 1  | NO MANUAL INTEGRATION                                    |
| 1135 | 02042357ECD7.D | 23A0180-15   |          | 1  | NO MANUAL INTEGRATION                                    |
| 1157 | 02042358ECD7.D | AR1248CCV7   |          | 1  | NO MANUAL INTEGRATION                                    |
| 1218 | 02042359ECD7.D | AR1660CCV8   |          | 1  | NO MANUAL INTEGRATION                                    |
| 1555 | 02042301ECD7.D | DDTS         |          | 1  | NO MANUAL INTEGRATION                                    |
| 1616 | 02042302ECD7.D | AR1254ICV1   |          | 1  | NO MANUAL INTEGRATION                                    |
| 1637 | 02042303ECD7.D | AR1660ICV2   |          | 1  | NO MANUAL INTEGRATION                                    |
| 1658 | 02042304ECD7.D | 23A0157-02   |          | 1  | Aroclor-1248 [2C], Aroclor-1254 [2C], Aroclor-1260 [2C], |
| 1719 | 02042305ECD7.D | 23A0157-04   |          | 1  | Aroclor-1248 [2C], Aroclor-1260 [2C],                    |
| 1740 | 02042306ECD7.D | 23A0157-06   |          | 1  | NO MANUAL INTEGRATION                                    |
| 1801 | 02042307ECD7.D | 23A0157-07   |          | 1  | NO MANUAL INTEGRATION                                    |
| 1822 | 02042308ECD7.D | 23A0157-08   |          | 1  | Aroclor-1248 [2C],                                       |
| 1843 | 02042309ECD7.D | 23A0157-09   |          | 1  | NO MANUAL INTEGRATION                                    |
| 1904 | 02042310ECD7.D | 23A0157-10   |          | 1  | NO MANUAL INTEGRATION                                    |
| 1926 | 02042311ECD7.D | BLA0475-MS1  |          | 1  | NO MANUAL INTEGRATION                                    |
| 1947 | 02042312ECD7.D | 23A0157-13   |          | 1  | NO MANUAL INTEGRATION                                    |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230204.b\230204.b

| Time | Filename       | LabID        | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|-------------------------------|
| 2008 | 02042313ECD7.D | AR1248CCV1   |          | 1  | NO MANUAL INTEGRATION         |
| 2029 | 02042314ECD7.D | AR1660CCV2   |          | 1  | NO MANUAL INTEGRATION         |
| 2050 | 02042315ECD7.D | BLA0558-BLK1 |          | 1  | NO MANUAL INTEGRATION         |
| 2111 | 02042316ECD7.D | BLA0558-BS1  |          | 1  | NO MANUAL INTEGRATION         |
| 2132 | 02042317ECD7.D | BLA0558-BSD1 |          | 1  | NO MANUAL INTEGRATION         |
| 2153 | 02042318ECD7.D | BLA0558-SRM1 |          | 1  | NO MANUAL INTEGRATION         |
| 2214 | 02042319ECD7.D | 23A0179-01   |          | 1  | Aroclor-1248 [2C],            |
| 2235 | 02042320ECD7.D | 23A0179-02   |          | 1  | Aroclor-1248 [2C],            |
| 2257 | 02042321ECD7.D | 23A0179-03   |          | 1  | Aroclor-1248 [2C],            |
| 2318 | 02042322ECD7.D | 23A0179-04   |          | 1  | Aroclor-1248 [2C],            |
| 2339 | 02042323ECD7.D | 23A0179-05   |          | 1  | Aroclor-1248 [2C],            |
| 0000 | 02042324ECD7.D | 23A0179-06   |          | 1  | Aroclor-1248 [2C],            |
| 0021 | 02042325ECD7.D | 23A0179-07   |          | 1  | Aroclor-1248 [2C],            |
| 0042 | 02042326ECD7.D | 23A0179-08   |          | 1  | Aroclor-1248 [2C],            |
| 0103 | 02042327ECD7.D | BLA0558-MS1  |          | 1  | NO MANUAL INTEGRATION         |
| 0124 | 02042328ECD7.D | BLA0558-MSD1 |          | 1  | NO MANUAL INTEGRATION         |
| 0145 | 02042329ECD7.D | AR1242CCV3   |          | 1  | NO MANUAL INTEGRATION         |
| 0206 | 02042330ECD7.D | AR1660CCV4   |          | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230204.b\230204.b

| Time | Filename       | LabID        | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|-------------------------------|
| 0228 | 02042331ECD7.D | 23A0179-09   |          | 1  | NO MANUAL INTEGRATION         |
| 0249 | 02042332ECD7.D | 23A0179-10   |          | 1  | NO MANUAL INTEGRATION         |
| 0310 | 02042333ECD7.D | 23A0179-11   |          | 1  | NO MANUAL INTEGRATION         |
| 0331 | 02042334ECD7.D | 23A0179-12   |          | 1  | NO MANUAL INTEGRATION         |
| 0352 | 02042335ECD7.D | BLA0559-BLK1 |          | 1  | NO MANUAL INTEGRATION         |
| 0413 | 02042336ECD7.D | BLA0559-BS1  |          | 1  | NO MANUAL INTEGRATION         |
| 0434 | 02042337ECD7.D | BLA0559-BSD1 |          | 1  | NO MANUAL INTEGRATION         |
| 0455 | 02042338ECD7.D | BLA0559-SRM1 |          | 1  | NO MANUAL INTEGRATION         |
| 0516 | 02042339ECD7.D | 23A0180-01   |          | 1  | NO MANUAL INTEGRATION         |
| 0537 | 02042340ECD7.D | 23A0180-02   |          | 1  | NO MANUAL INTEGRATION         |
| 0558 | 02042341ECD7.D | 23A0180-03   |          | 1  | NO MANUAL INTEGRATION         |
| 0619 | 02042342ECD7.D | 23A0180-04   |          | 1  | Aroclor-1248 [2C],            |
| 0641 | 02042343ECD7.D | 23A0180-05   |          | 1  | Aroclor-1248 [2C],            |
| 0702 | 02042344ECD7.D | 23A0180-06   |          | 1  | NO MANUAL INTEGRATION         |
| 0723 | 02042345ECD7.D | AR1254CCV5   |          | 1  | NO MANUAL INTEGRATION         |
| 0744 | 02042346ECD7.D | AR1660CCV6   |          | 1  | NO MANUAL INTEGRATION         |
| 0805 | 02042347ECD7.D | 23A0180-07   |          | 1  | NO MANUAL INTEGRATION         |
| 0826 | 02042348ECD7.D | 23A0180-08   |          | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230204.b\230204.b

| Time | Filename       | LabID        | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|-------------------------------|
| 0847 | 02042349ECD7.D | 23A0180-09   |          | 1  | Aroclor-1248 [2C],            |
| 0908 | 02042350ECD7.D | 23A0180-10   |          | 1  | NO MANUAL INTEGRATION         |
| 0929 | 02042351ECD7.D | 23A0180-11   |          | 1  | NO MANUAL INTEGRATION         |
| 0950 | 02042352ECD7.D | 23A0180-12   |          | 1  | NO MANUAL INTEGRATION         |
| 1011 | 02042353ECD7.D | 23A0180-13   |          | 1  | Aroclor-1248 [2C],            |
| 1032 | 02042354ECD7.D | 23A0180-14   |          | 1  | NO MANUAL INTEGRATION         |
| 1053 | 02042355ECD7.D | BLA0559-MS1  |          | 1  | NO MANUAL INTEGRATION         |
| 1114 | 02042356ECD7.D | BLA0559-MSD1 |          | 1  | NO MANUAL INTEGRATION         |
| 1135 | 02042357ECD7.D | 23A0180-15   |          | 1  | NO MANUAL INTEGRATION         |
| 1157 | 02042358ECD7.D | AR1248CCV7   |          | 1  | NO MANUAL INTEGRATION         |
| 1218 | 02042359ECD7.D | AR1660CCV8   |          | 1  | NO MANUAL INTEGRATION         |



Security Status Report

Date: 07-Feb-2023 08:57

|                |             |                             |
|----------------|-------------|-----------------------------|
| 02042301ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042302ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042303ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042304ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042305ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042306ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042307ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042308ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042309ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042310ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042311ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042312ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042313ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042314ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042315ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042316ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042317ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042318ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042319ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042320ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042321ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042322ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042323ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042324ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042325ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042326ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042327ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042328ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042329ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042330ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042331ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042332ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042333ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042334ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042335ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042336ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042337ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042338ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042339ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
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| 02042341ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042342ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042343ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042344ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |

|                |             |                             |
|----------------|-------------|-----------------------------|
| 02042345ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042346ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042347ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042348ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042349ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042350ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042351ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042352ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042353ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042354ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042355ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042356ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042357ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042358ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042359ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |



Dual Column  
ANALYSIS BATCH (SEQUENCE) SUMMARY  
EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 23A0179  
Client: Anchor QEA, LLC Project: AOC5 MR Phase 1  
Sequence: SLB0086 Instrument: ECD7  
Calibration: GA00061

| Sample Name       | Lab Sample ID | Column 1 File ID | Column 2 File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|------------------|--------|--------------------|
| Initial Cal Check | SLB0086-ICV1  | 02062302ECD7.D   | 02062302ECD7.D   | NA     | 02/06/23 09:54     |
| Initial Cal Check | SLB0086-ICV2  | 02062303ECD7.D   | 02062303ECD7.D   | NA     | 02/06/23 10:15     |
| LDW23-SS1112      | 23A0179-10    | 02062309ECD7.D   | 02062309ECD7.D   | Solid  | 02/06/23 12:21     |
| LDW23-SS1171      | 23A0179-09    | 02062310ECD7.D   | 02062310ECD7.D   | Solid  | 02/06/23 12:42     |
| Calibration Check | SLB0086-CCV1  | 02062313ECD7.D   | 02062313ECD7.D   | NA     | 02/06/23 13:46     |
| Calibration Check | SLB0086-CCV2  | 02062314ECD7.D   | 02062314ECD7.D   | NA     | 02/06/23 14:07     |
| LDW23-SS1039      | 23A0179-11    | 02062315ECD7.D   | 02062315ECD7.D   | Solid  | 02/06/23 14:28     |
| LDW23-SS1007      | 23A0179-12    | 02062316ECD7.D   | 02062316ECD7.D   | Solid  | 02/06/23 14:49     |
| Calibration Check | SLB0086-CCV3  | 02062322ECD7.D   | 02062322ECD7.D   | NA     | 02/06/23 16:55     |
| Calibration Check | SLB0086-CCV4  | 02062323ECD7.D   | 02062323ECD7.D   | NA     | 02/06/23 17:16     |
| Calibration Check | SLB0086-CCV5  | 02062338ECD7.D   | 02062338ECD7.D   | NA     | 02/06/23 22:31     |
| Calibration Check | SLB0086-CCV6  | 02062339ECD7.D   | 02062339ECD7.D   | NA     | 02/06/23 22:52     |
| Calibration Check | SLB0086-CCV7  | 02062349ECD7.D   | 02062349ECD7.D   | NA     | 02/07/23 02:22     |
| Calibration Check | SLB0086-CCV8  | 02062350ECD7.D   | 02062350ECD7.D   | NA     | 02/07/23 02:43     |



ANALYSIS SEQUENCE

SLB0086

Instrument: ECD7  
Calibration ID: GA00061

Printed: 2/7/2023 10:47:05AM

| Lab Number   | Analysis          | Container | Order | Position | STD ID  | ISTD ID | Client          | Comments |
|--------------|-------------------|-----------|-------|----------|---------|---------|-----------------|----------|
| SLB0086-ICV1 | QC                |           | 1     |          | L000862 | L000844 |                 |          |
| SLB0086-ICV2 | QC                |           | 2     |          | L000856 | L000844 |                 |          |
| 23A0179-10   | 8082A PCB Solid 4 | A 03      | 3     |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0179-09   | 8082A PCB Solid 4 | A 03      | 4     |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0157-01   | 8082A PCB Solid 4 | A 03      | 5     |          |         | L000844 | Anchor QEA, LLC |          |
| SLB0086-CCV1 | QC                |           | 6     |          | L000861 | L000844 |                 |          |
| SLB0086-CCV2 | QC                |           | 7     |          | L000856 | L000844 |                 |          |
| 23A0179-11   | 8082A PCB Solid 4 | A 03      | 8     |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0179-12   | 8082A PCB Solid 4 | A 03      | 9     |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0157-06   | 8082A PCB Solid 4 | A 03      | 10    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0157-07   | 8082A PCB Solid 4 | A 03      | 11    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0157-10   | 8082A PCB Solid 4 | A 03      | 12    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0157-13   | 8082A PCB Solid 4 | A 03      | 13    |          |         | L000844 | Anchor QEA, LLC |          |
| 23A0180-07   | 8082A PCB Solid 4 | A 01      | 14    |          |         | L000844 | Anchor QEA, LLC |          |
| SLB0086-CCV3 | QC                |           | 15    |          | L000860 | L000844 |                 |          |
| SLB0086-CCV4 | QC                |           | 16    |          | L000856 | L000844 |                 |          |
| BLA0559-BLK1 | QC                |           | 17    |          |         | L000844 |                 |          |
| BLA0559-BS1  | QC                |           | 18    |          |         | L000844 |                 |          |
| BLA0559-BSD1 | QC                |           | 19    |          |         | L000844 |                 |          |
| BLA0559-SRM1 | QC                |           | 20    |          |         | L000844 |                 |          |
| 23A0180-01   | 8082A PCB Solid 4 | A 03      | 21    |          |         | L000844 | Anchor QEA, LLC |          |

Samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

Data Processed By \_\_\_\_\_ Date \_\_\_\_\_



**ANALYSIS SEQUENCE**

**SLB0086**

Instrument: ECD7  
Calibration ID: GA00061

Printed: 2/7/2023 10:47:05AM

| Lab Number   | Analysis                     | Container | Order | Position | STD ID  | ISTD ID | Client                  | Comments |
|--------------|------------------------------|-----------|-------|----------|---------|---------|-------------------------|----------|
| 23A0180-02   | 8082A PCB Solid 4            | A 03      | 22    |          |         | L000844 | Anchor QEA, LLC         |          |
| 23A0180-03   | 8082A PCB Solid 4            | A 03      | 23    |          |         | L000844 | Anchor QEA, LLC         |          |
| 23A0180-08   | 8082A PCB Solid 4            | A 01      | 24    |          |         | L000844 | Anchor QEA, LLC         |          |
| 23A0180-10   | 8082A PCB Solid 4            | A 01      | 25    |          |         | L000844 | Anchor QEA, LLC         |          |
| 23A0180-11   | 8082A PCB Solid 4            | A 01      | 26    |          |         | L000844 | Anchor QEA, LLC         |          |
| 23A0180-12   | 8082A PCB Solid 4            | A 01      | 27    |          |         | L000844 | Anchor QEA, LLC         |          |
| SLB0086-CCV5 | QC                           |           | 28    |          | L000862 | L000844 |                         |          |
| SLB0086-CCV6 | QC                           |           | 29    |          | L000856 | L000844 |                         |          |
| 23A0180-14   | 8082A PCB Solid 4            | A 01      | 30    |          |         | L000844 | Anchor QEA, LLC         |          |
| BLA0559-MS1  | QC                           |           | 31    |          |         | L000844 |                         |          |
| BLA0559-MSD1 | QC                           |           | 32    |          |         | L000844 |                         |          |
| 23A0180-15   | 8082A PCB Solid 4            | A 01      | 33    |          |         | L000844 | Anchor QEA, LLC         |          |
| BLB0055-BLK1 | QC                           |           | 34    |          |         | L000844 |                         |          |
| BLB0055-BS1  | QC                           |           | 35    |          |         | L000844 |                         |          |
| BLB0055-BSD1 | QC                           |           | 36    |          |         | L000844 |                         |          |
| 23B0022-01   | 8.3 PCBs 0.01 ug/L or 20 ug/ | B 01      | 37    |          |         | L000844 | Nucor Steel Corporation |          |
| SLB0086-CCV7 | QC                           |           | 38    |          | L000861 | L000844 |                         |          |
| SLB0086-CCV8 | QC                           |           | 39    |          | L000856 | L000844 |                         |          |

Samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

Data Processed By \_\_\_\_\_ Date \_\_\_\_\_

## GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230206.b

|    | Inject      | Date/Time | Filename       | DF   | LabID         | ClientID   |
|----|-------------|-----------|----------------|------|---------------|------------|
| 1  | 06-FEB-2023 | 09:33     | 02062301ECD7.D | 1    | DDTS          |            |
| 2  | 06-FEB-2023 | 09:54     | 02062302ECD7.D | 1    | AR1254ICV1    |            |
| 3  | 06-FEB-2023 | 10:15     | 02062303ECD7.D | 1    | AR1660ICV2    |            |
| 4  | 06-FEB-2023 | 10:36     | 02062304ECD7.D | 50   | 23A0179-09RE1 |            |
| 5  | 06-FEB-2023 | 10:57     | 02062305ECD7.D | 10   | 23A0179-10RE1 |            |
| 6  | 06-FEB-2023 | 11:18     | 02062306ECD7.D | 500  | 23A0179-09RE  |            |
| 7  | 06-FEB-2023 | 11:39     | 02062307ECD7.D | 1    | DCM RINSE     |            |
| 8  | 06-FEB-2023 | 12:00     | 02062308ECD7.D | 1    | DCM RINSE     |            |
| 9  | 06-FEB-2023 | 12:21     | 02062309ECD7.D | 100  | 23A0179-10RE  |            |
| 10 | 06-FEB-2023 | 12:42     | 02062310ECD7.D | 5000 | 23A0179-09R   |            |
| 11 | 06-FEB-2023 | 13:04     | 02062311ECD7.D | 1    | DCM RINSE     |            |
| 12 | 06-FEB-2023 | 13:25     | 02062312ECD7.D | 5    | 23A0157-01RE1 |            |
| 13 | 06-FEB-2023 | 13:46     | 02062313ECD7.D | 1    | AR1248CCV1    |            |
| 14 | 06-FEB-2023 | 14:07     | 02062314ECD7.D | 1    | AR1660CCV2    |            |
| 15 | 06-FEB-2023 | 14:28     | 02062315ECD7.D | 1    | 23A0179-11    |            |
| 16 | 06-FEB-2023 | 14:49     | 02062316ECD7.D | 1    | 23A0179-12    |            |
| 17 | 06-FEB-2023 | 15:10     | 02062317ECD7.D | 1    | 23A0157-06    |            |
| 18 | 06-FEB-2023 | 15:31     | 02062318ECD7.D | 1    | 23A0157-07    |            |
| 19 | 06-FEB-2023 | 15:52     | 02062319ECD7.D | 1    | 23A0157-10    |            |
| 20 | 06-FEB-2023 | 16:13     | 02062320ECD7.D | 1    | 23A0157-13    |            |
| 21 | 06-FEB-2023 | 16:34     | 02062321ECD7.D | 10   | 23A0180-07RE1 |            |
| 22 | 06-FEB-2023 | 16:55     | 02062322ECD7.D | 1    | AR1242CCV3    |            |
| 23 | 06-FEB-2023 | 17:16     | 02062323ECD7.D | 1    | AR1660CCV4    |            |
| 24 | 06-FEB-2023 | 17:37     | 02062324ECD7.D | 1    | BLA0559-BLK1  |            |
| 25 | 06-FEB-2023 | 17:58     | 02062325ECD7.D | 1    | BLA0559-BS1   |            |
| 26 | 06-FEB-2023 | 18:19     | 02062326ECD7.D | 1    | BLA0559-BSD1  |            |
| 27 | 06-FEB-2023 | 18:40     | 02062327ECD7.D | 1    | BLA0559-SRM1  |            |
| 28 | 06-FEB-2023 | 19:01     | 02062328ECD7.D | 1    | 23A0180-01    |            |
| 29 | 06-FEB-2023 | 19:22     | 02062329ECD7.D | 1    | 23A0180-02    |            |
| 30 | 06-FEB-2023 | 19:43     | 02062330ECD7.D | 1    | 23A0180-03    |            |
| 31 | 06-FEB-2023 | 20:04     | 02062331ECD7.D | 1    | 23A0180-04    |            |
| 32 | 06-FEB-2023 | 20:25     | 02062332ECD7.D | 1    | 23A0180-05    |            |
| 33 | 06-FEB-2023 | 20:46     | 02062333ECD7.D | 1    | 23A0180-08    |            |
| 34 | 06-FEB-2023 | 21:07     | 02062334ECD7.D | 1    | 23A0180-09    |            |
| 35 | 06-FEB-2023 | 21:28     | 02062335ECD7.D | 1    | 23A0180-10    |            |
| 36 | 06-FEB-2023 | 21:49     | 02062336ECD7.D | 1    | 23A0180-11    |            |
| 37 | 06-FEB-2023 | 22:10     | 02062337ECD7.D | 1    | 23A0180-12    |            |
| 38 | 06-FEB-2023 | 22:31     | 02062338ECD7.D | 1    | AR1254CCV5    |            |
| 39 | 06-FEB-2023 | 22:52     | 02062339ECD7.D | 1    | AR1660CCV6    |            |
| 40 | 06-FEB-2023 | 23:13     | 02062340ECD7.D | 1    | 23A0180-13    |            |
| 41 | 06-FEB-2023 | 23:34     | 02062341ECD7.D | 1    | 23A0180-14    |            |
| 42 | 06-FEB-2023 | 23:55     | 02062342ECD7.D | 1    | BLA0559-MS1   |            |
| 43 | 07-FEB-2023 | 00:16     | 02062343ECD7.D | 1    | BLA0559-MSD1  |            |
| 44 | 07-FEB-2023 | 00:37     | 02062344ECD7.D | 1    | 23A0180-15    |            |
| 45 | 07-FEB-2023 | 00:58     | 02062345ECD7.D | 1    | BLB0055-BLK1  |            |
| 46 | 07-FEB-2023 | 01:19     | 02062346ECD7.D | 1    | BLB0055-BS1   |            |
| 47 | 07-FEB-2023 | 01:40     | 02062347ECD7.D | 1    | BLB0055-BSD1  |            |
| 48 | 07-FEB-2023 | 02:01     | 02062348ECD7.D | 1    | 23B0022-01    |            |
| 49 | 07-FEB-2023 | 02:22     | 02062349ECD7.D | 1    | AR1254CCV7    | AR1248CCV7 |
| 50 | 07-FEB-2023 | 02:43     | 02062350ECD7.D | 1    | AR1660CCV8    |            |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230206.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 06-FEB-2023

| Time | Filename       | LabID         | ClientId | DF   | Manually Integrated Compounds |
|------|----------------|---------------|----------|------|-------------------------------|
| 0933 | 02062301ECD7.D | DDTS          |          | 1    | NO MANUAL INTEGRATION         |
| 0954 | 02062302ECD7.D | AR1254ICV1    |          | 1    | NO MANUAL INTEGRATION         |
| 1015 | 02062303ECD7.D | AR1660ICV2    |          | 1    | NO MANUAL INTEGRATION         |
| 1036 | 02062304ECD7.D | 23A0179-09RE1 |          | 50   | NO MANUAL INTEGRATION         |
| 1057 | 02062305ECD7.D | 23A0179-10RE1 |          | 10   | NO MANUAL INTEGRATION         |
| 1118 | 02062306ECD7.D | 23A0179-09RE  |          | 500  | NO MANUAL INTEGRATION         |
| 1139 | 02062307ECD7.D | DCM RINSE     |          | 1    | NO MANUAL INTEGRATION         |
| 1200 | 02062308ECD7.D | DCM RINSE     |          | 1    | NO MANUAL INTEGRATION         |
| 1221 | 02062309ECD7.D | 23A0179-10RE  |          | 100  | NO MANUAL INTEGRATION         |
| 1242 | 02062310ECD7.D | 23A0179-09R   |          | 5000 | NO MANUAL INTEGRATION         |
| 1304 | 02062311ECD7.D | DCM RINSE     |          | 1    | NO MANUAL INTEGRATION         |
| 1325 | 02062312ECD7.D | 23A0157-01RE1 |          | 5    | NO MANUAL INTEGRATION         |
| 1346 | 02062313ECD7.D | AR1248CCV1    |          | 1    | NO MANUAL INTEGRATION         |
| 1407 | 02062314ECD7.D | AR1660CCV2    |          | 1    | NO MANUAL INTEGRATION         |
| 1428 | 02062315ECD7.D | 23A0179-11    |          | 1    | Aroclor-1254,                 |
| 1449 | 02062316ECD7.D | 23A0179-12    |          | 1    | NO MANUAL INTEGRATION         |
| 1510 | 02062317ECD7.D | 23A0157-06    |          | 1    | Aroclor-1254,                 |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230206.b

| Time | Filename       | LabID         | ClientId | DF | Manually Integrated Compounds |
|------|----------------|---------------|----------|----|-------------------------------|
| 1531 | 02062318ECD7.D | 23A0157-07    |          | 1  | NO MANUAL INTEGRATION         |
| 1552 | 02062319ECD7.D | 23A0157-10    |          | 1  | Aroclor-1254,                 |
| 1613 | 02062320ECD7.D | 23A0157-13    |          | 1  | NO MANUAL INTEGRATION         |
| 1634 | 02062321ECD7.D | 23A0180-07RE1 |          | 10 | NO MANUAL INTEGRATION         |
| 1655 | 02062322ECD7.D | AR1242CCV3    |          | 1  | NO MANUAL INTEGRATION         |
| 1716 | 02062323ECD7.D | AR1660CCV4    |          | 1  | NO MANUAL INTEGRATION         |
| 1737 | 02062324ECD7.D | BLA0559-BLK1  |          | 1  | NO MANUAL INTEGRATION         |
| 1758 | 02062325ECD7.D | BLA0559-BS1   |          | 1  | NO MANUAL INTEGRATION         |
| 1819 | 02062326ECD7.D | BLA0559-BSD1  |          | 1  | NO MANUAL INTEGRATION         |
| 1840 | 02062327ECD7.D | BLA0559-SRML  |          | 1  | NO MANUAL INTEGRATION         |
| 1901 | 02062328ECD7.D | 23A0180-01    |          | 1  | Aroclor-1254,                 |
| 1922 | 02062329ECD7.D | 23A0180-02    |          | 1  | NO MANUAL INTEGRATION         |
| 1943 | 02062330ECD7.D | 23A0180-03    |          | 1  | Aroclor-1254,                 |
| 2004 | 02062331ECD7.D | 23A0180-04    |          | 1  | NO MANUAL INTEGRATION         |
| 2025 | 02062332ECD7.D | 23A0180-05    |          | 1  | NO MANUAL INTEGRATION         |
| 2046 | 02062333ECD7.D | 23A0180-08    |          | 1  | NO MANUAL INTEGRATION         |
| 2107 | 02062334ECD7.D | 23A0180-09    |          | 1  | Aroclor-1254,                 |
| 2128 | 02062335ECD7.D | 23A0180-10    |          | 1  | Aroclor-1254,                 |



MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230206.b

| Time | Filename       | LabID        | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|-------------------------------|
| 2149 | 02062336ECD7.D | 23A0180-11   |          | 1  | Aroclor-1254,                 |
| 2210 | 02062337ECD7.D | 23A0180-12   |          | 1  | Aroclor-1254,                 |
| 2231 | 02062338ECD7.D | AR1254CCV5   |          | 1  | NO MANUAL INTEGRATION         |
| 2252 | 02062339ECD7.D | AR1660CCV6   |          | 1  | NO MANUAL INTEGRATION         |
| 2313 | 02062340ECD7.D | 23A0180-13   |          | 1  | Aroclor-1254,                 |
| 2334 | 02062341ECD7.D | 23A0180-14   |          | 1  | Aroclor-1254,                 |
| 2355 | 02062342ECD7.D | BLA0559-MS1  |          | 1  | NO MANUAL INTEGRATION         |
| 0016 | 02062343ECD7.D | BLA0559-MSD1 |          | 1  | NO MANUAL INTEGRATION         |
| 0037 | 02062344ECD7.D | 23A0180-15   |          | 1  | Aroclor-1254,                 |
| 0058 | 02062345ECD7.D | BLB0055-BLK1 |          | 1  | NO MANUAL INTEGRATION         |
| 0119 | 02062346ECD7.D | BLB0055-BS1  |          | 1  | NO MANUAL INTEGRATION         |
| 0140 | 02062347ECD7.D | BLB0055-BSD1 |          | 1  | NO MANUAL INTEGRATION         |
| 0201 | 02062348ECD7.D | 23B0022-01   |          | 1  | NO MANUAL INTEGRATION         |
| 0222 | 02062349ECD7.D | AR1254CCV7   |          | 1  | NO MANUAL INTEGRATION         |
| 0243 | 02062350ECD7.D | AR1660CCV8   |          | 1  | NO MANUAL INTEGRATION         |
| 0933 | 02062301ECD7.D | DDTS         |          | 1  | NO MANUAL INTEGRATION         |
| 0954 | 02062302ECD7.D | AR1254ICV1   |          | 1  | NO MANUAL INTEGRATION         |
| 1015 | 02062303ECD7.D | AR1660ICV2   |          | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230206.b\230206.b

| Time | Filename       | LabID         | ClientId | DF   | Manually Integrated Compounds |
|------|----------------|---------------|----------|------|-------------------------------|
| 1036 | 02062304ECD7.D | 23A0179-09RE1 |          | 50   | NO MANUAL INTEGRATION         |
| 1057 | 02062305ECD7.D | 23A0179-10RE1 |          | 10   | NO MANUAL INTEGRATION         |
| 1118 | 02062306ECD7.D | 23A0179-09RE  |          | 500  | NO MANUAL INTEGRATION         |
| 1139 | 02062307ECD7.D | DCM RINSE     |          | 1    | NO MANUAL INTEGRATION         |
| 1200 | 02062308ECD7.D | DCM RINSE     |          | 1    | NO MANUAL INTEGRATION         |
| 1221 | 02062309ECD7.D | 23A0179-10RE  |          | 100  | NO MANUAL INTEGRATION         |
| 1242 | 02062310ECD7.D | 23A0179-09R   |          | 5000 | NO MANUAL INTEGRATION         |
| 1304 | 02062311ECD7.D | DCM RINSE     |          | 1    | NO MANUAL INTEGRATION         |
| 1325 | 02062312ECD7.D | 23A0157-01RE1 |          | 5    | Aroclor-1248 [2C],            |
| 1346 | 02062313ECD7.D | AR1248CCV1    |          | 1    | NO MANUAL INTEGRATION         |
| 1407 | 02062314ECD7.D | AR1660CCV2    |          | 1    | NO MANUAL INTEGRATION         |
| 1428 | 02062315ECD7.D | 23A0179-11    |          | 1    | Aroclor-1248 [2C],            |
| 1449 | 02062316ECD7.D | 23A0179-12    |          | 1    | Aroclor-1248 [2C],            |
| 1510 | 02062317ECD7.D | 23A0157-06    |          | 1    | Aroclor-1248 [2C],            |
| 1531 | 02062318ECD7.D | 23A0157-07    |          | 1    | Aroclor-1248 [2C],            |
| 1552 | 02062319ECD7.D | 23A0157-10    |          | 1    | Aroclor-1248 [2C],            |
| 1613 | 02062320ECD7.D | 23A0157-13    |          | 1    | Aroclor-1248 [2C],            |
| 1634 | 02062321ECD7.D | 23A0180-07RE1 |          | 10   | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230206.b\230206.b

| Time | Filename       | LabID        | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|-------------------------------|
| 1655 | 02062322ECD7.D | AR1242CCV3   |          | 1  | NO MANUAL INTEGRATION         |
| 1716 | 02062323ECD7.D | AR1660CCV4   |          | 1  | NO MANUAL INTEGRATION         |
| 1737 | 02062324ECD7.D | BLA0559-BLK1 |          | 1  | NO MANUAL INTEGRATION         |
| 1758 | 02062325ECD7.D | BLA0559-BS1  |          | 1  | NO MANUAL INTEGRATION         |
| 1819 | 02062326ECD7.D | BLA0559-BSD1 |          | 1  | NO MANUAL INTEGRATION         |
| 1840 | 02062327ECD7.D | BLA0559-SRM1 |          | 1  | NO MANUAL INTEGRATION         |
| 1901 | 02062328ECD7.D | 23A0180-01   |          | 1  | Aroclor-1248 [2C],            |
| 1922 | 02062329ECD7.D | 23A0180-02   |          | 1  | Aroclor-1248 [2C],            |
| 1943 | 02062330ECD7.D | 23A0180-03   |          | 1  | Aroclor-1248 [2C],            |
| 2004 | 02062331ECD7.D | 23A0180-04   |          | 1  | NO MANUAL INTEGRATION         |
| 2025 | 02062332ECD7.D | 23A0180-05   |          | 1  | NO MANUAL INTEGRATION         |
| 2046 | 02062333ECD7.D | 23A0180-08   |          | 1  | Aroclor-1248 [2C],            |
| 2107 | 02062334ECD7.D | 23A0180-09   |          | 1  | NO MANUAL INTEGRATION         |
| 2128 | 02062335ECD7.D | 23A0180-10   |          | 1  | Aroclor-1248 [2C],            |
| 2149 | 02062336ECD7.D | 23A0180-11   |          | 1  | Aroclor-1248 [2C],            |
| 2210 | 02062337ECD7.D | 23A0180-12   |          | 1  | Aroclor-1248 [2C],            |
| 2231 | 02062338ECD7.D | AR1254CCV5   |          | 1  | NO MANUAL INTEGRATION         |
| 2252 | 02062339ECD7.D | AR1660CCV6   |          | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230206.b\230206.b

| Time | Filename       | LabID        | ClientId | DF | Manually Integrated Compounds         |
|------|----------------|--------------|----------|----|---------------------------------------|
| 2313 | 02062340ECD7.D | 23A0180-13   |          | 1  | NO MANUAL INTEGRATION                 |
| 2334 | 02062341ECD7.D | 23A0180-14   |          | 1  | Aroclor-1248 [2C], Aroclor-1260 [2C], |
| 2355 | 02062342ECD7.D | BLA0559-MS1  |          | 1  | NO MANUAL INTEGRATION                 |
| 0016 | 02062343ECD7.D | BLA0559-MSD1 |          | 1  | NO MANUAL INTEGRATION                 |
| 0037 | 02062344ECD7.D | 23A0180-15   |          | 1  | Aroclor-1248 [2C],                    |
| 0058 | 02062345ECD7.D | BLB0055-BLK1 |          | 1  | NO MANUAL INTEGRATION                 |
| 0119 | 02062346ECD7.D | BLB0055-BS1  |          | 1  | NO MANUAL INTEGRATION                 |
| 0140 | 02062347ECD7.D | BLB0055-BSD1 |          | 1  | NO MANUAL INTEGRATION                 |
| 0201 | 02062348ECD7.D | 23B0022-01   |          | 1  | NO MANUAL INTEGRATION                 |
| 0222 | 02062349ECD7.D | AR1254CCV7   |          | 1  | NO MANUAL INTEGRATION                 |
| 0243 | 02062350ECD7.D | AR1660CCV8   |          | 1  | NO MANUAL INTEGRATION                 |

Security Status Report

Date: 07-Feb-2023 11:35

|                |             |                             |
|----------------|-------------|-----------------------------|
| 02062301ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062302ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062303ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062304ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062305ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062306ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062307ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062308ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062309ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062310ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062311ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062312ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062313ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062314ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062315ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062316ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062317ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062318ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062319ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062320ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062321ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062322ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062323ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062324ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062325ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062326ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062327ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062328ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062329ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062330ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062331ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062332ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062333ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062334ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062335ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062336ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062337ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062338ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062339ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062340ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062341ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062342ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062343ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062344ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |

|                |             |                             |
|----------------|-------------|-----------------------------|
| 02062345ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062346ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062347ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062348ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062349ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062350ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |



**Dual Column**  
**ANALYSIS BATCH (SEQUENCE) SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLE0079

Instrument: ECD7

Calibration: GE00022

| Sample Name         | Lab Sample ID | Column 1 File ID | Column 2 File ID | Matrix | Analysis Date/Time |
|---------------------|---------------|------------------|------------------|--------|--------------------|
| Cal Standard        | SLE0079-CAL1  | 05052321ECD7.D   | 05052321ECD7.D   | NA     | 05/05/23 23:26     |
| Cal Standard        | SLE0079-CAL2  | 05052322ECD7.D   | 05052322ECD7.D   | NA     | 05/05/23 23:47     |
| Cal Standard        | SLE0079-CAL3  | 05052323ECD7.D   | 05052323ECD7.D   | NA     | 05/06/23 00:08     |
| Cal Standard        | SLE0079-CAL4  | 05052324ECD7.D   | 05052324ECD7.D   | NA     | 05/06/23 00:29     |
| Cal Standard        | SLE0079-CAL5  | 05052325ECD7.D   | 05052325ECD7.D   | NA     | 05/06/23 00:50     |
| Cal Standard        | SLE0079-CAL6  | 05052326ECD7.D   | 05052326ECD7.D   | NA     | 05/06/23 01:11     |
| Cal Standard        | SLE0079-CAL7  | 05052327ECD7.D   | 05052327ECD7.D   | NA     | 05/06/23 01:31     |
| Cal Standard        | SLE0079-CAL8  | 05052328ECD7.D   | 05052328ECD7.D   | NA     | 05/06/23 01:52     |
| Cal Standard        | SLE0079-CAL9  | 05052329ECD7.D   | 05052329ECD7.D   | NA     | 05/06/23 02:13     |
| Cal Standard        | SLE0079-CALA  | 05052330ECD7.D   | 05052330ECD7.D   | NA     | 05/06/23 02:34     |
| Cal Standard        | SLE0079-CALB  | 05052331ECD7.D   | 05052331ECD7.D   | NA     | 05/06/23 02:55     |
| Secondary Cal Check | SLE0079-SCV1  | 05052332ECD7.D   | 05052332ECD7.D   | NA     | 05/06/23 03:16     |
| Secondary Cal Check | SLE0079-SCV2  | 05052333ECD7.D   | 05052333ECD7.D   | NA     | 05/06/23 03:36     |
| Secondary Cal Check | SLE0079-SCV3  | 05052334ECD7.D   | 05052334ECD7.D   | NA     | 05/06/23 03:57     |
| Secondary Cal Check | SLE0079-SCV4  | 05052335ECD7.D   | 05052335ECD7.D   | NA     | 05/06/23 04:18     |
| Secondary Cal Check | SLE0079-SCV5  | 05052336ECD7.D   | 05052336ECD7.D   | NA     | 05/06/23 04:39     |
| Secondary Cal Check | SLE0079-SCV6  | 05052337ECD7.D   | 05052337ECD7.D   | NA     | 05/06/23 05:00     |



ANALYSIS SEQUENCE

SLE0079

Instrument: ECD7  
Calibration ID: GE00022

Printed: 5/6/2023 11:44:56AM

| Lab Number   | Analysis | Container | Order | Position | STD ID  | ISTD ID | Client | Comments |
|--------------|----------|-----------|-------|----------|---------|---------|--------|----------|
| SLE0079-CAL1 | QC       |           | 1     |          | L000856 | L000844 |        |          |
| SLE0079-CAL2 | QC       |           | 2     |          | L000859 | L000844 |        |          |
| SLE0079-CAL3 | QC       |           | 3     |          | L000858 | L000844 |        |          |
| SLE0079-CAL4 | QC       |           | 4     |          | L000731 | L000844 |        |          |
| SLE0079-CAL5 | QC       |           | 5     |          | L000857 | L000844 |        |          |
| SLE0079-CAL6 | QC       |           | 6     |          | L000855 | L000844 |        |          |
| SLE0079-CAL7 | QC       |           | 7     |          | L000860 | L000844 |        |          |
| SLE0079-CAL8 | QC       |           | 8     |          | L000861 | L000844 |        |          |
| SLE0079-CAL9 | QC       |           | 9     |          | L000862 | L000844 |        |          |
| SLE0079-CALA | QC       |           | 10    |          | L004996 | L000844 |        |          |
| SLE0079-CALB | QC       |           | 11    |          | L004997 | L000844 |        |          |
| SLE0079-SCV1 | QC       |           | 12    |          | L002065 | L000844 |        |          |
| SLE0079-SCV2 | QC       |           | 13    |          | L003970 | L000844 |        |          |
| SLE0079-SCV3 | QC       |           | 14    |          | L002066 | L000844 |        |          |
| SLE0079-SCV4 | QC       |           | 15    |          | L002067 | L000844 |        |          |
| SLE0079-SCV5 | QC       |           | 16    |          | L002068 | L000844 |        |          |
| SLE0079-SCV6 | QC       |           | 17    |          | L002069 | L000844 |        |          |

Samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

Data Processed By \_\_\_\_\_ Date \_\_\_\_\_



## GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230505.b

|    | Inject      | Date/Time | Filename       | DF | LabID         | ClientID |
|----|-------------|-----------|----------------|----|---------------|----------|
| 1  | 05-MAY-2023 | 23:06     | 05052320ECD7.D | 1  | IB            |          |
| 2  | 05-MAY-2023 | 23:26     | 05052321ECD7.D | 1  | 0.25PPMAR1660 |          |
| 3  | 05-MAY-2023 | 23:47     | 05052322ECD7.D | 1  | 0.02PPMAR1660 |          |
| 4  | 06-MAY-2023 | 00:08     | 05052323ECD7.D | 1  | 0.05PPMAR1660 |          |
| 5  | 06-MAY-2023 | 00:29     | 05052324ECD7.D | 1  | 1.0PPMAR1660  |          |
| 6  | 06-MAY-2023 | 00:50     | 05052325ECD7.D | 1  | 0.1PPMAR1660  |          |
| 7  | 06-MAY-2023 | 01:11     | 05052326ECD7.D | 1  | 0.5PPMAR1660  |          |
| 8  | 06-MAY-2023 | 01:31     | 05052327ECD7.D | 1  | 0.25PPMAR1242 |          |
| 9  | 06-MAY-2023 | 01:52     | 05052328ECD7.D | 1  | 0.25PPMAR1248 |          |
| 10 | 06-MAY-2023 | 02:13     | 05052329ECD7.D | 1  | 0.25PPMAR1254 |          |
| 11 | 06-MAY-2023 | 02:34     | 05052330ECD7.D | 1  | 0.25PPMAR2162 |          |
| 12 | 06-MAY-2023 | 02:55     | 05052331ECD7.D | 1  | 0.25PPMAR3268 |          |
| 13 | 06-MAY-2023 | 03:16     | 05052332ECD7.D | 1  | AR1660SCV     |          |
| 14 | 06-MAY-2023 | 03:36     | 05052333ECD7.D | 1  | AR1242SCV     |          |
| 15 | 06-MAY-2023 | 03:57     | 05052334ECD7.D | 1  | AR1248SCV     |          |
| 16 | 06-MAY-2023 | 04:18     | 05052335ECD7.D | 1  | AR1254SCV     |          |
| 17 | 06-MAY-2023 | 04:39     | 05052336ECD7.D | 1  | AR2162SCV     |          |
| 18 | 06-MAY-2023 | 05:00     | 05052337ECD7.D | 1  | AR3268SCV     |          |
| 19 | 06-MAY-2023 | 05:21     | 05052338ECD7.D | 1  | DDTS          |          |
| 20 | 06-MAY-2023 | 05:41     | 05052339ECD7.D | 1  | DDT BD        |          |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230505.b

ARI Job No.:           Method: PCB.m   Instrument: ecd7.i   Date: 05-MAY-2023

| Time | Filename       | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|-------|----------|----|-------------------------------|
| 1548 | 05052301ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1609 | 05052302ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1711 | 05052303ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1732 | 05052304ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1753 | 05052305ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1814 | 05052306ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1835 | 05052307ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1856 | 05052308ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1916 | 05052309ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1937 | 05052310ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 1958 | 05052311ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 2019 | 05052312ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 2040 | 05052313ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 2101 | 05052314ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 2121 | 05052315ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 2142 | 05052316ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |
| 2203 | 05052317ECD7.D |       |          | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230505.b

| Time | Filename       | LabID         | ClientId | DF | Manually Integrated Compounds |
|------|----------------|---------------|----------|----|-------------------------------|
| 2224 | 05052318ECD7.D |               |          | 1  | NO MANUAL INTEGRATION         |
| 2245 | 05052319ECD7.D |               |          | 1  | NO MANUAL INTEGRATION         |
| 2306 | 05052320ECD7.D | IB            |          | 1  | NO MANUAL INTEGRATION         |
| 2326 | 05052321ECD7.D | 0.25PPMAR1660 |          | 1  | NO MANUAL INTEGRATION         |
| 2347 | 05052322ECD7.D | 0.02PPMAR1660 |          | 1  | NO MANUAL INTEGRATION         |
| 0008 | 05052323ECD7.D | 0.05PPMAR1660 |          | 1  | NO MANUAL INTEGRATION         |
| 0029 | 05052324ECD7.D | 1.0PPMAR1660  |          | 1  | NO MANUAL INTEGRATION         |
| 0050 | 05052325ECD7.D | 0.1PPMAR1660  |          | 1  | NO MANUAL INTEGRATION         |
| 0111 | 05052326ECD7.D | 0.5PPMAR1660  |          | 1  | NO MANUAL INTEGRATION         |
| 0131 | 05052327ECD7.D | 0.25PPMAR1242 |          | 1  | NO MANUAL INTEGRATION         |
| 0152 | 05052328ECD7.D | 0.25PPMAR1248 |          | 1  | NO MANUAL INTEGRATION         |
| 0213 | 05052329ECD7.D | 0.25PPMAR1254 |          | 1  | NO MANUAL INTEGRATION         |
| 0234 | 05052330ECD7.D | 0.25PPMAR2162 |          | 1  | NO MANUAL INTEGRATION         |
| 0255 | 05052331ECD7.D | 0.25PPMAR3268 |          | 1  | NO MANUAL INTEGRATION         |
| 0316 | 05052332ECD7.D | AR1660SCV     |          | 1  | NO MANUAL INTEGRATION         |
| 0336 | 05052333ECD7.D | AR1242SCV     |          | 1  | NO MANUAL INTEGRATION         |
| 0357 | 05052334ECD7.D | AR1248SCV     |          | 1  | NO MANUAL INTEGRATION         |
| 0418 | 05052335ECD7.D | AR1254SCV     |          | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230505.b

| Time | Filename       | LabID     | ClientId | DF | Manually Integrated Compounds |
|------|----------------|-----------|----------|----|-------------------------------|
| 0439 | 05052336ECD7.D | AR2162SCV |          | 1  | NO MANUAL INTEGRATION         |
| 0500 | 05052337ECD7.D | AR3268SCV |          | 1  | NO MANUAL INTEGRATION         |
| 0521 | 05052338ECD7.D | DDTS      |          | 1  | NO MANUAL INTEGRATION         |
| 0541 | 05052339ECD7.D | DDT BD    |          | 1  | NO MANUAL INTEGRATION         |
| 1548 | 05052301ECD7.D | RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 1609 | 05052302ECD7.D | RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 1711 | 05052303ECD7.D | HEX RINSE |          | 1  | NO MANUAL INTEGRATION         |
| 1732 | 05052304ECD7.D | HEX RINSE |          | 1  | NO MANUAL INTEGRATION         |
| 1753 | 05052305ECD7.D | HEX RINSE |          | 1  | NO MANUAL INTEGRATION         |
| 1814 | 05052306ECD7.D | HEX RINSE |          | 1  | NO MANUAL INTEGRATION         |
| 1835 | 05052307ECD7.D | HEX RINSE |          | 1  | NO MANUAL INTEGRATION         |
| 1856 | 05052308ECD7.D | HEX RINSE |          | 1  | NO MANUAL INTEGRATION         |
| 1916 | 05052309ECD7.D | RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 1937 | 05052310ECD7.D | RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 1958 | 05052311ECD7.D | RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2019 | 05052312ECD7.D | RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2040 | 05052313ECD7.D | RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2101 | 05052314ECD7.D | HEX RINSE |          | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230505.b\230505.b

| Time | Filename       | LabID         | ClientId | DF | Manually Integrated Compounds |
|------|----------------|---------------|----------|----|-------------------------------|
| 2121 | 05052315ECD7.D | HEX RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2142 | 05052316ECD7.D | HEX RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2203 | 05052317ECD7.D | HEX RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2224 | 05052318ECD7.D | HEX RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2245 | 05052319ECD7.D | HEX RINSE     |          | 1  | NO MANUAL INTEGRATION         |
| 2306 | 05052320ECD7.D | IB            |          | 1  | NO MANUAL INTEGRATION         |
| 2326 | 05052321ECD7.D | 0.25PPMAR1660 |          | 1  | NO MANUAL INTEGRATION         |
| 2347 | 05052322ECD7.D | 0.02PPMAR1660 |          | 1  | Aroclor-1016 [2C],            |
| 0008 | 05052323ECD7.D | 0.05PPMAR1660 |          | 1  | Aroclor-1016 [2C],            |
| 0029 | 05052324ECD7.D | 1.0PPMAR1660  |          | 1  | NO MANUAL INTEGRATION         |
| 0050 | 05052325ECD7.D | 0.1PPMAR1660  |          | 1  | Aroclor-1016 [2C],            |
| 0111 | 05052326ECD7.D | 0.5PPMAR1660  |          | 1  | NO MANUAL INTEGRATION         |
| 0132 | 05052327ECD7.D | 0.25PPMAR1242 |          | 1  | Aroclor-1242 [2C],            |
| 0152 | 05052328ECD7.D | 0.25PPMAR1248 |          | 1  | NO MANUAL INTEGRATION         |
| 0213 | 05052329ECD7.D | 0.25PPMAR1254 |          | 1  | NO MANUAL INTEGRATION         |
| 0234 | 05052330ECD7.D | 0.25PPMAR2162 |          | 1  | NO MANUAL INTEGRATION         |
| 0255 | 05052331ECD7.D | 0.25PPMAR3268 |          | 1  | NO MANUAL INTEGRATION         |
| 0316 | 05052332ECD7.D | AR1660SCV     |          | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230505.b\230505.b

| Time | Filename       | LabID     | ClientId | DF | Manually Integrated Compounds |
|------|----------------|-----------|----------|----|-------------------------------|
| 0336 | 05052333ECD7.D | AR1242SCV |          | 1  | Aroclor-1242 [2C],            |
| 0357 | 05052334ECD7.D | AR1248SCV |          | 1  | NO MANUAL INTEGRATION         |
| 0418 | 05052335ECD7.D | AR1254SCV |          | 1  | NO MANUAL INTEGRATION         |
| 0439 | 05052336ECD7.D | AR2162SCV |          | 1  | NO MANUAL INTEGRATION         |
| 0500 | 05052337ECD7.D | AR3268SCV |          | 1  | NO MANUAL INTEGRATION         |
| 0521 | 05052338ECD7.D | DDTS      |          | 1  | NO MANUAL INTEGRATION         |
| 0541 | 05052339ECD7.D | DDT BD    |          | 1  | NO MANUAL INTEGRATION         |

Security Status Report

Date: 06-May-2023 09:12

|                |             |                             |
|----------------|-------------|-----------------------------|
| 05052320ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052321ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052322ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052323ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052324ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052325ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052326ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052327ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052328ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052329ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052330ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052331ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052332ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052333ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052334ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052335ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052336ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052337ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052338ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |
| 05052339ECD7.D | Data Locked | richardl, 06-May-2023 09:12 |



**Dual Column**

**ANALYSIS BATCH (SEQUENCE) SUMMARY**

**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLE0303

Instrument: ECD7

Calibration: GE00022

| Sample Name       | Lab Sample ID | Column 1 File ID | Column 2 File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|------------------|--------|--------------------|
| Initial Cal Check | SLE0303-ICV1  | 05182302ECD7.D   | 05182302ECD7.D   | NA     | 05/18/23 11:32     |
| Initial Cal Check | SLE0303-ICV2  | 05182303ECD7.D   | 05182303ECD7.D   | NA     | 05/18/23 11:53     |
| Calibration Check | SLE0303-CCV1  | 05182307ECD7.D   | 05182307ECD7.D   | NA     | 05/18/23 13:16     |
| Calibration Check | SLE0303-CCV2  | 05182308ECD7.D   | 05182308ECD7.D   | NA     | 05/18/23 13:37     |
| [BATCHQC]         | 23A0179-10RE1 | 05182309ECD7.D   | 05182309ECD7.D   | Solid  | 05/18/23 13:58     |
| Calibration Check | SLE0303-CCV3  | 05182310ECD7.D   | 05182310ECD7.D   | NA     | 05/18/23 14:19     |
| Calibration Check | SLE0303-CCV4  | 05182311ECD7.D   | 05182311ECD7.D   | NA     | 05/18/23 14:40     |





**ANALYSIS SEQUENCE**

**SLE0303**

Instrument: ECD7  
Calibration ID: GE00022

**Printed: 5/18/2023 3:34:16PM**

| Lab Number    | Analysis                   | Container | Order | Position | STD ID  | ISTD ID | Client                   | Comments               |
|---------------|----------------------------|-----------|-------|----------|---------|---------|--------------------------|------------------------|
| SLE0303-ICV1  | QC                         |           | 1     |          | L000862 | L000844 |                          |                        |
| SLE0303-ICV2  | QC                         |           | 2     |          | L000856 | L000844 |                          |                        |
| 23E0067-02    | PCB (20 ug/kg) or (MTCA 0. | D 02      | 3     |          |         | L000844 | Seattle Public Utilities |                        |
| SLE0303-CCV1  | QC                         |           | 4     |          | L000861 | L000844 |                          |                        |
| SLE0303-CCV2  | QC                         |           | 5     |          | L000856 | L000844 |                          |                        |
| 23A0179-10RE1 | 8082A PCB Solid 4          | A 03      | 6     |          |         | L000844 | Anchor QEA, LLC          | Added 5/18/2023 by RJL |
| SLE0303-CCV3  | QC                         |           | 7     |          | L000860 | L000844 |                          |                        |
| SLE0303-CCV4  | QC                         |           | 8     |          | L000856 | L000844 |                          |                        |

\_\_\_\_\_  
Samples Loaded By    Date

\_\_\_\_\_  
Data Processed By    Date

## GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230518.b

|    | Inject      | Date/Time | Filename       | DF | LabID           | ClientID |
|----|-------------|-----------|----------------|----|-----------------|----------|
| 1  | 18-MAY-2023 | 11:11     | 05182301ECD7.D | 1  | DDTS            |          |
| 2  | 18-MAY-2023 | 11:32     | 05182302ECD7.D | 1  | AR1254ICV1      |          |
| 3  | 18-MAY-2023 | 11:53     | 05182303ECD7.D | 1  | AR1660ICV2      |          |
| 4  | 18-MAY-2023 | 12:13     | 05182304ECD7.D | 1  | 23E0067-02      |          |
| 5  | 18-MAY-2023 | 12:34     | 05182305ECD7.D | 5  | 23E0067-02RE1   |          |
| 6  | 18-MAY-2023 | 12:55     | 05182306ECD7.D | 1  | L005487DCMLTCHK |          |
| 7  | 18-MAY-2023 | 13:16     | 05182307ECD7.D | 1  | AR1248CCV1      |          |
| 8  | 18-MAY-2023 | 13:37     | 05182308ECD7.D | 1  | AR1660CCV2      |          |
| 9  | 18-MAY-2023 | 13:58     | 05182309ECD7.D | 10 | 23A0179-10RE1   |          |
| 10 | 18-MAY-2023 | 14:19     | 05182310ECD7.D | 1  | AR1242CCV3      |          |
| 11 | 18-MAY-2023 | 14:40     | 05182311ECD7.D | 1  | AR1660CCV4      |          |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230518.b

ARI Job No.: DDTs Method: PCB.m Instrument: ecd7.i Date: 18-MAY-2023

| Time | Filename       | LabID           | ClientId | DF | Manually Integrated Compounds |
|------|----------------|-----------------|----------|----|-------------------------------|
| 1111 | 05182301ECD7.D | DDTS            |          | 1  | NO MANUAL INTEGRATION         |
| 1132 | 05182302ECD7.D | AR1254ICV1      |          | 1  | NO MANUAL INTEGRATION         |
| 1153 | 05182303ECD7.D | AR1660ICV2      |          | 1  | NO MANUAL INTEGRATION         |
| 1213 | 05182304ECD7.D | 23E0067-02      |          | 1  | NO MANUAL INTEGRATION         |
| 1234 | 05182305ECD7.D | 23E0067-02RE1   |          | 5  | NO MANUAL INTEGRATION         |
| 1255 | 05182306ECD7.D | L005487DCMLTCHK |          | 1  | NO MANUAL INTEGRATION         |
| 1316 | 05182307ECD7.D | AR1248CCV1      |          | 1  | NO MANUAL INTEGRATION         |
| 1337 | 05182308ECD7.D | AR1660CCV2      |          | 1  | NO MANUAL INTEGRATION         |
| 1358 | 05182309ECD7.D | 23A0179-10RE1   |          | 10 | NO MANUAL INTEGRATION         |
| 1419 | 05182310ECD7.D | AR1242CCV3      |          | 1  | NO MANUAL INTEGRATION         |
| 1440 | 05182311ECD7.D | AR1660CCV4      |          | 1  | NO MANUAL INTEGRATION         |
| 1111 | 05182301ECD7.D | DDTS            |          | 1  | NO MANUAL INTEGRATION         |
| 1132 | 05182302ECD7.D | AR1254ICV1      |          | 1  | NO MANUAL INTEGRATION         |
| 1153 | 05182303ECD7.D | AR1660ICV2      |          | 1  | NO MANUAL INTEGRATION         |
| 1213 | 05182304ECD7.D | 23E0067-02      |          | 1  | NO MANUAL INTEGRATION         |
| 1234 | 05182305ECD7.D | 23E0067-02RE1   |          | 5  | NO MANUAL INTEGRATION         |
| 1255 | 05182306ECD7.D | L005487DCMLTCHK |          | 1  | NO MANUAL INTEGRATION         |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230518.b\230518.b

| Time | Filename       | LabID         | ClientId | DF | Manually Integrated Compounds |
|------|----------------|---------------|----------|----|-------------------------------|
| 1316 | 05182307ECD7.D | AR1248CCV1    |          | 1  | NO MANUAL INTEGRATION         |
| 1337 | 05182308ECD7.D | AR1660CCV2    |          | 1  | NO MANUAL INTEGRATION         |
| 1358 | 05182309ECD7.D | 23A0179-10RE1 |          | 10 | NO MANUAL INTEGRATION         |
| 1419 | 05182310ECD7.D | AR1242CCV3    |          | 1  | NO MANUAL INTEGRATION         |
| 1440 | 05182311ECD7.D | AR1660CCV4    |          | 1  | NO MANUAL INTEGRATION         |

Security Status Report

Date: 18-May-2023 15:32

|                |             |                             |
|----------------|-------------|-----------------------------|
| 05182301ECD7.D | Data Locked | richardl, 18-May-2023 15:32 |
| 05182302ECD7.D | Data Locked | richardl, 18-May-2023 15:32 |
| 05182303ECD7.D | Data Locked | richardl, 18-May-2023 15:32 |
| 05182304ECD7.D | Data Locked | richardl, 18-May-2023 15:32 |
| 05182305ECD7.D | Data Locked | richardl, 18-May-2023 15:32 |
| 05182306ECD7.D | Data Locked | richardl, 18-May-2023 15:32 |
| 05182307ECD7.D | Data Locked | richardl, 18-May-2023 15:32 |
| 05182308ECD7.D | Data Locked | richardl, 18-May-2023 15:32 |
| 05182309ECD7.D | Data Locked | richardl, 18-May-2023 15:32 |
| 05182310ECD7.D | Data Locked | richardl, 18-May-2023 15:32 |
| 05182311ECD7.D | Data Locked | richardl, 18-May-2023 15:32 |



**Dual Column**  
**ANALYSIS BATCH (SEQUENCE) SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLE0480

Instrument: ECD7

Calibration: GE00022

| Sample Name       | Lab Sample ID | Column 1 File ID | Column 2 File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|------------------|--------|--------------------|
| Initial Cal Check | SLE0480-ICV1  | 05312309ECD7.D   | 05312309ECD7.D   | NA     | 05/31/23 15:11     |
| Initial Cal Check | SLE0480-ICV2  | 05312310ECD7.D   | 05312310ECD7.D   | NA     | 05/31/23 15:32     |
| Blank             | BLE0737-BLK1  | 05312311ECD7.D   | 05312311ECD7.D   | Solid  | 05/31/23 15:53     |
| LCS               | BLE0737-BS1   | 05312312ECD7.D   | 05312312ECD7.D   | Solid  | 05/31/23 16:13     |
| LCS Dup           | BLE0737-BSD1  | 05312313ECD7.D   | 05312313ECD7.D   | Solid  | 05/31/23 16:34     |
| Reference         | BLE0737-SRM1  | 05312314ECD7.D   | 05312314ECD7.D   | Solid  | 05/31/23 16:55     |
| LDW23-SS1112      | 23A0179-10RE2 | 05312315ECD7.D   | 05312315ECD7.D   | Solid  | 05/31/23 17:16     |
| LDW23-SS1112      | BLE0737-MS1   | 05312316ECD7.D   | 05312316ECD7.D   | Solid  | 05/31/23 17:37     |
| LDW23-SS1112      | BLE0737-MSD1  | 05312317ECD7.D   | 05312317ECD7.D   | Solid  | 05/31/23 17:58     |
| Calibration Check | SLE0480-CCV1  | 05312327ECD7.D   | 05312327ECD7.D   | NA     | 05/31/23 21:26     |
| Calibration Check | SLE0480-CCV2  | 05312328ECD7.D   | 05312328ECD7.D   | NA     | 05/31/23 21:47     |



ANALYSIS SEQUENCE

SLE0480

Instrument: ECD7  
Calibration ID: GE00022

Printed: 6/1/2023 8:41:41AM

| Lab Number    | Analysis                   | Container | Order | Position | STD ID  | ISTD ID | Client                           | Comments                         |
|---------------|----------------------------|-----------|-------|----------|---------|---------|----------------------------------|----------------------------------|
| SLE0480-ICV1  | QC                         |           | 1     |          | L000862 | L000844 |                                  |                                  |
| SLE0480-ICV2  | QC                         |           | 2     |          | L000856 | L000844 |                                  |                                  |
| BLE0737-BLK1  | QC                         |           | 3     |          |         | L000844 |                                  |                                  |
| BLE0737-BS1   | QC                         |           | 4     |          |         | L000844 |                                  |                                  |
| BLE0737-BSD1  | QC                         |           | 5     |          |         | L000844 |                                  |                                  |
| 23A0179-10RE2 | 8082A PCB Solid 4          | A 07      | 6     |          |         | L000844 | Anchor QEA, LLC                  | From BLA0558 by CTO on 25-May-20 |
| BLE0737-SRM1  | QC                         |           | 7     |          |         | L000844 |                                  |                                  |
| BLE0737-MS1   | QC                         |           | 8     |          |         | L000844 |                                  |                                  |
| BLE0737-MSD1  | QC                         |           | 9     |          |         | L000844 |                                  |                                  |
| BLE0215-BLK1  | QC                         |           | 10    |          |         | L000844 |                                  |                                  |
| BLE0215-BS1   | QC                         |           | 11    |          |         | L000844 |                                  |                                  |
| BLE0215-BSD1  | QC                         |           | 12    |          |         | L000844 |                                  |                                  |
| 23E0121-05    | 608.3 PCBs 1.0 ug/L        | A 01      | 13    |          |         | L000844 | Dalton, Olmsted & Fuglevand, Inc |                                  |
| BLE0156-BLK1  | QC                         |           | 14    |          |         | L000844 |                                  |                                  |
| BLE0156-BS1   | QC                         |           | 15    |          |         | L000844 |                                  |                                  |
| BLE0156-BSD1  | QC                         |           | 16    |          |         | L000844 |                                  |                                  |
| 23E0062-01    | PCB (20 ug/kg) or (MTCA 0. | H 02      | 17    |          |         | L000844 | Seattle Public Utilities         |                                  |
| 23E0062-02    | PCB (20 ug/kg) or (MTCA 0. | H 02      | 18    |          |         | L000844 | Seattle Public Utilities         |                                  |
| SLE0480-CCV1  | QC                         |           | 19    |          | L000861 | L000844 |                                  |                                  |
| SLE0480-CCV2  | QC                         |           | 20    |          | L000856 | L000844 |                                  |                                  |

Samples Loaded By

Date

Data Processed By

Date



**ANALYSIS SEQUENCE**

**SLE0480**

Instrument: ECD7  
Calibration ID: GE00022

**Printed: 6/1/2023 8:41:41AM**

| Lab Number | Analysis | Container | Order | Position | STD ID | ISTD ID | Client | Comments |
|------------|----------|-----------|-------|----------|--------|---------|--------|----------|
|------------|----------|-----------|-------|----------|--------|---------|--------|----------|

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Samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

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Data Processed By \_\_\_\_\_ Date \_\_\_\_\_



## GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230531.b

|    | Inject      | Date/Time | Filename       | DF | LabID         | ClientID |
|----|-------------|-----------|----------------|----|---------------|----------|
| 1  | 31-MAY-2023 | 14:50     | 05312308ECD7.D | 1  | DDTS          |          |
| 2  | 31-MAY-2023 | 15:11     | 05312309ECD7.D | 1  | AR1254ICV1    |          |
| 3  | 31-MAY-2023 | 15:32     | 05312310ECD7.D | 1  | AR1660ICV2    |          |
| 4  | 31-MAY-2023 | 15:53     | 05312311ECD7.D | 1  | BLE0737-BLK1  |          |
| 5  | 31-MAY-2023 | 16:13     | 05312312ECD7.D | 1  | BLE0737-BS1   |          |
| 6  | 31-MAY-2023 | 16:34     | 05312313ECD7.D | 1  | BLE0737-BSD1  |          |
| 7  | 31-MAY-2023 | 16:55     | 05312314ECD7.D | 1  | BLE0737-SRM1  |          |
| 8  | 31-MAY-2023 | 17:16     | 05312315ECD7.D | 1  | 23A0179-10RE2 |          |
| 9  | 31-MAY-2023 | 17:37     | 05312316ECD7.D | 1  | BLE0737-MS1   |          |
| 10 | 31-MAY-2023 | 17:58     | 05312317ECD7.D | 1  | BLE0737-MSD1  |          |
| 11 | 31-MAY-2023 | 18:19     | 05312318ECD7.D | 1  | BLE0215-BLK1  |          |
| 12 | 31-MAY-2023 | 18:39     | 05312319ECD7.D | 1  | BLE0215-BS1   |          |
| 13 | 31-MAY-2023 | 19:00     | 05312320ECD7.D | 1  | BLE0215-BSD1  |          |
| 14 | 31-MAY-2023 | 19:21     | 05312321ECD7.D | 1  | 23E0121-05    |          |
| 15 | 31-MAY-2023 | 19:42     | 05312322ECD7.D | 1  | BLE0156-BLK1  |          |
| 16 | 31-MAY-2023 | 20:03     | 05312323ECD7.D | 1  | BLE0156-BS1   |          |
| 17 | 31-MAY-2023 | 20:23     | 05312324ECD7.D | 1  | BLE0156-BSD1  |          |
| 18 | 31-MAY-2023 | 20:44     | 05312325ECD7.D | 1  | 23E0062-01    |          |
| 19 | 31-MAY-2023 | 21:05     | 05312326ECD7.D | 1  | 23E0062-02    |          |
| 20 | 31-MAY-2023 | 21:26     | 05312327ECD7.D | 1  | AR1248CCV1    |          |
| 21 | 31-MAY-2023 | 21:47     | 05312328ECD7.D | 1  | AR1660CCV2    |          |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230531.b

ARI Job No.: DDTs Method: PCB.m Instrument: ecd7.i Date: 31-MAY-2023

| Time | Filename       | LabID         | ClientId | DF | Manually Integrated Compounds   |
|------|----------------|---------------|----------|----|---|
| 1450 | 05312308ECD7.D | DDTS          |          | 1  | NO MANUAL INTEGRATION   |
| 1511 | 05312309ECD7.D | AR1254ICV1    |          | 1  | NO MANUAL INTEGRATION   |
| 1532 | 05312310ECD7.D | AR1660ICV2    |          | 1  | NO MANUAL INTEGRATION   |
| 1553 | 05312311ECD7.D | BLE0737-BLK1  |          | 1  | NO MANUAL INTEGRATION   |
| 1613 | 05312312ECD7.D | BLE0737-BS1   |          | 1  | NO MANUAL INTEGRATION   |
| 1634 | 05312313ECD7.D | BLE0737-BSD1  |          | 1  | NO MANUAL INTEGRATION   |
| 1655 | 05312314ECD7.D | BLE0737-SRM1  |          | 1  | NO MANUAL INTEGRATION   |
| 1716 | 05312315ECD7.D | 23A0179-10RE2 |          | 1  | NO MANUAL INTEGRATION   |
| 1737 | 05312316ECD7.D | BLE0737-MS1   |          | 1  | Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Tetrachloro-m-xylene, |
| 1758 | 05312317ECD7.D | BLE0737-MSD1  |          | 1  | Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Tetrachloro-m-xylene, |
| 1819 | 05312318ECD7.D | BLE0215-BLK1  |          | 1  | NO MANUAL INTEGRATION   |
| 1839 | 05312319ECD7.D | BLE0215-BS1   |          | 1  | NO MANUAL INTEGRATION   |
| 1900 | 05312320ECD7.D | BLE0215-BSD1  |          | 1  | NO MANUAL INTEGRATION   |
| 1921 | 05312321ECD7.D | 23E0121-05    |          | 1  | NO MANUAL INTEGRATION   |
| 1942 | 05312322ECD7.D | BLE0156-BLK1  |          | 1  | NO MANUAL INTEGRATION   |
| 2003 | 05312323ECD7.D | BLE0156-BS1   |          | 1  | NO MANUAL INTEGRATION   |
| 2023 | 05312324ECD7.D | BLE0156-BSD1  |          | 1  | NO MANUAL INTEGRATION   |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230531.b

| Time | Filename       | LabID         | ClientId | DF | Manually Integrated Compounds   |
|------|----------------|---------------|----------|----|---|
| 2044 | 05312325ECD7.D | 23E0062-01    |          | 1  | NO MANUAL INTEGRATION   |
| 2105 | 05312326ECD7.D | 23E0062-02    |          | 1  | NO MANUAL INTEGRATION   |
| 2126 | 05312327ECD7.D | AR1248CCV1    |          | 1  | NO MANUAL INTEGRATION   |
| 2147 | 05312328ECD7.D | AR1660CCV2    |          | 1  | NO MANUAL INTEGRATION   |
| 1450 | 05312308ECD7.D | DDTS          |          | 1  | NO MANUAL INTEGRATION   |
| 1511 | 05312309ECD7.D | AR1254ICV1    |          | 1  | NO MANUAL INTEGRATION   |
| 1532 | 05312310ECD7.D | AR1660ICV2    |          | 1  | NO MANUAL INTEGRATION   |
| 1553 | 05312311ECD7.D | BLE0737-BLK1  |          | 1  | NO MANUAL INTEGRATION   |
| 1613 | 05312312ECD7.D | BLE0737-BS1   |          | 1  | NO MANUAL INTEGRATION   |
| 1634 | 05312313ECD7.D | BLE0737-BSD1  |          | 1  | NO MANUAL INTEGRATION   |
| 1655 | 05312314ECD7.D | BLE0737-SRM1  |          | 1  | NO MANUAL INTEGRATION   |
| 1716 | 05312315ECD7.D | 23A0179-10RE2 |          | 1  | NO MANUAL INTEGRATION   |
| 1737 | 05312316ECD7.D | BLE0737-MS1   |          | 1  | Aroclor-1016 [2C], Aroclor-1221 [2C], Aroclor-1232 [2C], Aroclor-1242 [2C], Aroclor-1248 [2C], Aroclor-1254 [2C], Aroclor-1260 [2C], Aroclor-1262 [2C], Aroclor-1268 [2C], Tetrachloro-m-xylene [2C], |
| 1758 | 05312317ECD7.D | BLE0737-MSD1  |          | 1  | Aroclor-1016 [2C], Aroclor-1221 [2C], Aroclor-1232 [2C], Aroclor-1242 [2C], Aroclor-1248 [2C], Aroclor-1254 [2C], Aroclor-1260 [2C], Aroclor-1262 [2C], Tetrachloro-m-xylene [2C],                    |
| 1819 | 05312318ECD7.D | BLE0215-BLK1  |          | 1  | NO MANUAL INTEGRATION   |
| 1839 | 05312319ECD7.D | BLE0215-BS1   |          | 1  | NO MANUAL INTEGRATION   |
| 1900 | 05312320ECD7.D | BLE0215-BSD1  |          | 1  | NO MANUAL INTEGRATION   |
| 1921 | 05312321ECD7.D | 23E0121-05    |          | 1  | NO MANUAL INTEGRATION   |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230531.b\230531.b

| Time | Filename       | LabID        | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|-------------------------------|
| 1942 | 05312322ECD7.D | BLE0156-BLK1 |          | 1  | NO MANUAL INTEGRATION         |
| 2003 | 05312323ECD7.D | BLE0156-BS1  |          | 1  | NO MANUAL INTEGRATION         |
| 2023 | 05312324ECD7.D | BLE0156-BSD1 |          | 1  | NO MANUAL INTEGRATION         |
| 2044 | 05312325ECD7.D | 23E0062-01   |          | 1  | NO MANUAL INTEGRATION         |
| 2105 | 05312326ECD7.D | 23E0062-02   |          | 1  | NO MANUAL INTEGRATION         |
| 2126 | 05312327ECD7.D | AR1248CCV1   |          | 1  | NO MANUAL INTEGRATION         |
| 2147 | 05312328ECD7.D | AR1660CCV2   |          | 1  | NO MANUAL INTEGRATION         |

Security Status Report

Date: 01-Jun-2023 08:31

|                |             |                             |
|----------------|-------------|-----------------------------|
| 05312308ECD7.D | Data Locked | richardl, 01-Jun-2023 08:31 |
| 05312309ECD7.D | Data Locked | richardl, 01-Jun-2023 08:31 |
| 05312310ECD7.D | Data Locked | richardl, 01-Jun-2023 08:31 |
| 05312311ECD7.D | Data Locked | richardl, 01-Jun-2023 08:31 |
| 05312312ECD7.D | Data Locked | richardl, 01-Jun-2023 08:31 |
| 05312313ECD7.D | Data Locked | richardl, 01-Jun-2023 08:31 |
| 05312314ECD7.D | Data Locked | richardl, 01-Jun-2023 08:31 |
| 05312315ECD7.D | Data Locked | richardl, 01-Jun-2023 08:31 |
| 05312316ECD7.D | Data Locked | richardl, 01-Jun-2023 08:31 |
| 05312317ECD7.D | Data Locked | richardl, 01-Jun-2023 08:31 |
| 05312318ECD7.D | Data Locked | richardl, 01-Jun-2023 08:31 |
| 05312319ECD7.D | Data Locked | richardl, 01-Jun-2023 08:31 |
| 05312320ECD7.D | Data Locked | richardl, 01-Jun-2023 08:31 |
| 05312321ECD7.D | Data Locked | richardl, 01-Jun-2023 08:31 |
| 05312322ECD7.D | Data Locked | richardl, 01-Jun-2023 08:31 |
| 05312323ECD7.D | Data Locked | richardl, 01-Jun-2023 08:31 |
| 05312324ECD7.D | Data Locked | richardl, 01-Jun-2023 08:31 |
| 05312325ECD7.D | Data Locked | richardl, 01-Jun-2023 08:31 |
| 05312326ECD7.D | Data Locked | richardl, 01-Jun-2023 08:31 |
| 05312327ECD7.D | Data Locked | richardl, 01-Jun-2023 08:31 |
| 05312328ECD7.D | Data Locked | richardl, 01-Jun-2023 08:31 |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC  
Client: Anchor OEA, LLC  
Sequence: SLA0281  
Calibration: GA00061

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: ECD7  
Calibration Date: 01/24/2023

| Surrogate Compound   | Spike Level ug/L | % Recovery | Recovery Limits | RT     | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| <b>SLA0281-SCV1 (Solid)</b> Lab File ID: 01242324ECD7.D Analyzed: 01/24/23 19:51 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000           | 94.9       | 80 - 120        | 13.891 | 13.892              | -0.0010 | N/A           |   |
| Tetrachlorometaxylene  | 40.000           | 93.8       | 80 - 120        | 5.808  | 5.808667            | -0.0007 | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000           | 101        | 80 - 120        | 14.12  | 14.12017            | -0.0002 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000           | 93.2       | 80 - 120        | 5.685  | 5.685333            | -0.0003 | N/A           |   |
| <b>SLA0281-SCV2 (Solid)</b> Lab File ID: 01242325ECD7.D Analyzed: 01/24/23 20:12 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000           | 96.4       | 80 - 120        | 13.892 | 13.892              | 0.0000  | N/A           |   |
| Tetrachlorometaxylene  | 40.000           | 94.4       | 80 - 120        | 5.808  | 5.808667            | -0.0007 | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000           | 101        | 80 - 120        | 14.121 | 14.12017            | 0.0008  | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000           | 93.4       | 80 - 120        | 5.685  | 5.685333            | -0.0003 | N/A           |   |
| <b>SLA0281-SCV3 (Solid)</b> Lab File ID: 01242326ECD7.D Analyzed: 01/24/23 20:33 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000           | 95.7       | 80 - 120        | 13.892 | 13.892              | 0.0000  | N/A           |   |
| Tetrachlorometaxylene  | 40.000           | 91.9       | 80 - 120        | 5.809  | 5.808667            | 0.0003  | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000           | 98.9       | 80 - 120        | 14.12  | 14.12017            | -0.0002 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000           | 91.4       | 80 - 120        | 5.685  | 5.685333            | -0.0003 | N/A           |   |
| <b>SLA0281-SCV4 (Solid)</b> Lab File ID: 01242327ECD7.D Analyzed: 01/24/23 20:54 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000           | 92.7       | 80 - 120        | 13.892 | 13.892              | 0.0000  | N/A           |   |
| Tetrachlorometaxylene  | 40.000           | 91.7       | 80 - 120        | 5.808  | 5.808667            | -0.0007 | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000           | 98.9       | 80 - 120        | 14.121 | 14.12017            | 0.0008  | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000           | 91.6       | 80 - 120        | 5.685  | 5.685333            | -0.0003 | N/A           |   |
| <b>SLA0281-SCV5 (Solid)</b> Lab File ID: 01242328ECD7.D Analyzed: 01/24/23 21:15 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000           | 93.6       | 80 - 120        | 13.89  | 13.892              | -0.0020 | N/A           |   |
| Tetrachlorometaxylene  | 40.000           | 93.2       | 80 - 120        | 5.808  | 5.808667            | -0.0007 | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000           | 98.7       | 80 - 120        | 14.119 | 14.12017            | -0.0012 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000           | 92.9       | 80 - 120        | 5.685  | 5.685333            | -0.0003 | N/A           |   |
| <b>SLA0281-SCV6 (Solid)</b> Lab File ID: 01242329ECD7.D Analyzed: 01/24/23 21:36 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000           | 137        | 80 - 120        | 13.892 | 13.892              | 0.0000  | N/A           |   |
| Tetrachlorometaxylene  | 40.000           | 90.9       | 80 - 120        | 5.809  | 5.808667            | 0.0003  | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000           | 145        | 80 - 120        | 14.12  | 14.12017            | -0.0002 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000           | 90.8       | 80 - 120        | 5.686  | 5.685333            | 0.0007  | N/A           |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLB0084  
Calibration: GA00061

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: ECD7  
Calibration Date: 01/24/2023

| Surrogate Compound   | Spike Level ug/L | % Recovery | Recovery Limits | RT     | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| <b>SLB0084-ICV1 (Solid)</b> Lab File ID: 02042302ECD7.D Analyzed: 02/04/23 16:16 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000           | 101        | 80 - 120        | 13.89  | 13.892              | -0.0020 | N/A           |   |
| Tetrachlorometaxylene  | 40.000           | 100        | 80 - 120        | 5.806  | 5.808667            | -0.0027 | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000           | 98.0       | 80 - 120        | 14.116 | 14.12017            | -0.0042 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000           | 99.0       | 80 - 120        | 5.682  | 5.685333            | -0.0033 | N/A           |   |
| <b>SLB0084-ICV2 (Solid)</b> Lab File ID: 02042303ECD7.D Analyzed: 02/04/23 16:37 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000           | 98.3       | 80 - 120        | 13.888 | 13.892              | -0.0040 | N/A           |   |
| Tetrachlorometaxylene  | 40.000           | 108        | 80 - 120        | 5.806  | 5.808667            | -0.0027 | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000           | 104        | 80 - 120        | 14.116 | 14.12017            | -0.0042 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000           | 105        | 80 - 120        | 5.683  | 5.685333            | -0.0023 | N/A           |   |
| <b>SLB0084-CCV1 (Solid)</b> Lab File ID: 02042313ECD7.D Analyzed: 02/04/23 20:08 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000           | 89.8       | 80 - 120        | 13.888 | 13.892              | -0.0040 | N/A           |   |
| Tetrachlorometaxylene  | 40.000           | 103        | 80 - 120        | 5.806  | 5.808667            | -0.0027 | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000           | 101        | 80 - 120        | 14.115 | 14.12017            | -0.0052 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000           | 102        | 80 - 120        | 5.682  | 5.685333            | -0.0033 | N/A           |   |
| <b>SLB0084-CCV2 (Solid)</b> Lab File ID: 02042314ECD7.D Analyzed: 02/04/23 20:29 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000           | 96.5       | 80 - 120        | 13.888 | 13.892              | -0.0040 | N/A           |   |
| Tetrachlorometaxylene  | 40.000           | 108        | 80 - 120        | 5.806  | 5.808667            | -0.0027 | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000           | 104        | 80 - 120        | 14.116 | 14.12017            | -0.0042 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000           | 106        | 80 - 120        | 5.683  | 5.685333            | -0.0023 | N/A           |   |
| <b>BLA0558-BLK1 (Solid)</b> Lab File ID: 02042315ECD7.D Analyzed: 02/04/23 20:50 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 8.0000           | 87.7       | 40 - 126        | 13.888 | 13.892              | -0.0040 | N/A           |   |
| Tetrachlorometaxylene  | 8.0000           | 89.2       | 44 - 120        | 5.805  | 5.808667            | -0.0037 | N/A           |   |
| Decachlorobiphenyl [2C]  | 8.0000           | 89.2       | 40 - 126        | 14.115 | 14.12017            | -0.0052 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 8.0000           | 87.0       | 44 - 120        | 5.683  | 5.685333            | -0.0023 | N/A           |   |
| <b>BLA0558-BS1 (Solid)</b> Lab File ID: 02042316ECD7.D Analyzed: 02/04/23 21:11  |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 8.0000           | 78.4       | 40 - 126        | 13.888 | 13.892              | -0.0040 | N/A           |   |
| Tetrachlorometaxylene  | 8.0000           | 82.7       | 44 - 120        | 5.805  | 5.808667            | -0.0037 | N/A           |   |
| Decachlorobiphenyl [2C]  | 8.0000           | 84.7       | 40 - 126        | 14.116 | 14.12017            | -0.0042 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 8.0000           | 78.5       | 44 - 120        | 5.683  | 5.685333            | -0.0023 | N/A           |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLB0084  
Calibration: GA00061

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: ECD7  
Calibration Date: 01/24/2023

| Surrogate Compound          | Spike Level ug/kg wet | % Recovery                  | Recovery Limits | RT     | Calibration Mean RT      | RT Diff | RT Diff Limit | Q |
|-----------------------------|-----------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| <b>BLA0558-BSD1 (Solid)</b> |                       | Lab File ID: 02042317ECD7.D |                 |        | Analyzed: 02/04/23 21:32 |         |               |   |
| Decachlorobiphenyl          | 8.0000                | 80.5                        | 40 - 126        | 13.886 | 13.892                   | -0.0060 | N/A           |   |
| Tetrachlorometaxylene       | 8.0000                | 84.8                        | 44 - 120        | 5.806  | 5.808667                 | -0.0027 | N/A           |   |
| Decachlorobiphenyl [2C]     | 8.0000                | 83.6                        | 40 - 126        | 14.114 | 14.12017                 | -0.0062 | N/A           |   |
| Tetrachlorometaxylene [2C]  | 8.0000                | 81.1                        | 44 - 120        | 5.683  | 5.685333                 | -0.0023 | N/A           |   |
| <b>BLA0558-SRM1 (Solid)</b> |                       | Lab File ID: 02042318ECD7.D |                 |        | Analyzed: 02/04/23 21:53 |         |               |   |
| Decachlorobiphenyl          | 40.000                | 78.7                        | 40 - 126        | 13.885 | 13.892                   | -0.0070 | N/A           |   |
| Tetrachlorometaxylene       | 40.000                | 80.1                        | 44 - 120        | 5.805  | 5.808667                 | -0.0037 | N/A           |   |
| Decachlorobiphenyl [2C]     | 40.000                | 72.9                        | 40 - 126        | 14.113 | 14.12017                 | -0.0072 | N/A           |   |
| Tetrachlorometaxylene [2C]  | 40.000                | 86.8                        | 44 - 120        | 5.682  | 5.685333                 | -0.0033 | N/A           |   |
| <b>23A0179-01 (Solid)</b>   |                       | Lab File ID: 02042319ECD7.D |                 |        | Analyzed: 02/04/23 22:14 |         |               |   |
| Decachlorobiphenyl          | 7.9825                | 71.4                        | 40 - 126        | 13.883 | 13.892                   | -0.0090 | N/A           |   |
| Tetrachlorometaxylene       | 7.9825                | 70.4                        | 44 - 120        | 5.805  | 5.808667                 | -0.0037 | N/A           |   |
| Decachlorobiphenyl [2C]     | 7.9825                | 67.0                        | 40 - 126        | 14.111 | 14.12017                 | -0.0092 | N/A           |   |
| Tetrachlorometaxylene [2C]  | 7.9825                | 76.2                        | 44 - 120        | 5.681  | 5.685333                 | -0.0043 | N/A           |   |
| <b>23A0179-02 (Solid)</b>   |                       | Lab File ID: 02042320ECD7.D |                 |        | Analyzed: 02/04/23 22:35 |         |               |   |
| Decachlorobiphenyl          | 7.9955                | 73.0                        | 40 - 126        | 13.884 | 13.892                   | -0.0080 | N/A           |   |
| Tetrachlorometaxylene       | 7.9955                | 71.8                        | 44 - 120        | 5.804  | 5.808667                 | -0.0047 | N/A           |   |
| Decachlorobiphenyl [2C]     | 7.9955                | 72.2                        | 40 - 126        | 14.111 | 14.12017                 | -0.0092 | N/A           |   |
| Tetrachlorometaxylene [2C]  | 7.9955                | 79.5                        | 44 - 120        | 5.68   | 5.685333                 | -0.0053 | N/A           |   |
| <b>23A0179-03 (Solid)</b>   |                       | Lab File ID: 02042321ECD7.D |                 |        | Analyzed: 02/04/23 22:57 |         |               |   |
| Decachlorobiphenyl          | 7.9919                | 73.3                        | 40 - 126        | 13.883 | 13.892                   | -0.0090 | N/A           |   |
| Tetrachlorometaxylene       | 7.9919                | 70.4                        | 44 - 120        | 5.803  | 5.808667                 | -0.0057 | N/A           |   |
| Decachlorobiphenyl [2C]     | 7.9919                | 70.3                        | 40 - 126        | 14.111 | 14.12017                 | -0.0092 | N/A           |   |
| Tetrachlorometaxylene [2C]  | 7.9919                | 78.0                        | 44 - 120        | 5.679  | 5.685333                 | -0.0063 | N/A           |   |
| <b>23A0179-04 (Solid)</b>   |                       | Lab File ID: 02042322ECD7.D |                 |        | Analyzed: 02/04/23 23:18 |         |               |   |
| Decachlorobiphenyl          | 7.9966                | 70.8                        | 40 - 126        | 13.882 | 13.892                   | -0.0100 | N/A           |   |
| Tetrachlorometaxylene       | 7.9966                | 66.4                        | 44 - 120        | 5.804  | 5.808667                 | -0.0047 | N/A           |   |
| Decachlorobiphenyl [2C]     | 7.9966                | 68.5                        | 40 - 126        | 14.111 | 14.12017                 | -0.0092 | N/A           |   |
| Tetrachlorometaxylene [2C]  | 7.9966                | 75.0                        | 44 - 120        | 5.679  | 5.685333                 | -0.0063 | N/A           |   |





**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLB0084  
Calibration: GA00061

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: ECD7  
Calibration Date: 01/24/2023

| Surrogate Compound   | Spike Level ug/kg dry | % Recovery | Recovery Limits | RT     | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|-----------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| <b>23A0179-05 (Solid)</b> Lab File ID: 02042323ECD7.D Analyzed: 02/04/23 23:39   |                       |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 7.9983                | 74.5       | 40 - 126        | 13.883 | 13.892              | -0.0090 | N/A           |   |
| Tetrachlorometaxylene  | 7.9983                | 72.1       | 44 - 120        | 5.803  | 5.808667            | -0.0057 | N/A           |   |
| Decachlorobiphenyl [2C]  | 7.9983                | 72.5       | 40 - 126        | 14.112 | 14.12017            | -0.0082 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 7.9983                | 80.3       | 44 - 120        | 5.68   | 5.685333            | -0.0053 | N/A           |   |
| <b>23A0179-06 (Solid)</b> Lab File ID: 02042324ECD7.D Analyzed: 02/05/23 00:00   |                       |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 7.9851                | 71.5       | 40 - 126        | 13.883 | 13.892              | -0.0090 | N/A           |   |
| Tetrachlorometaxylene  | 7.9851                | 66.0       | 44 - 120        | 5.803  | 5.808667            | -0.0057 | N/A           |   |
| Decachlorobiphenyl [2C]  | 7.9851                | 67.9       | 40 - 126        | 14.11  | 14.12017            | -0.0102 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 7.9851                | 75.6       | 44 - 120        | 5.68   | 5.685333            | -0.0053 | N/A           |   |
| <b>23A0179-07 (Solid)</b> Lab File ID: 02042325ECD7.D Analyzed: 02/05/23 00:21   |                       |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 7.9944                | 75.6       | 40 - 126        | 13.885 | 13.892              | -0.0070 | N/A           |   |
| Tetrachlorometaxylene  | 7.9944                | 73.4       | 44 - 120        | 5.805  | 5.808667            | -0.0037 | N/A           |   |
| Decachlorobiphenyl [2C]  | 7.9944                | 72.4       | 40 - 126        | 14.111 | 14.12017            | -0.0092 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 7.9944                | 84.1       | 44 - 120        | 5.681  | 5.685333            | -0.0043 | N/A           |   |
| <b>23A0179-08 (Solid)</b> Lab File ID: 02042326ECD7.D Analyzed: 02/05/23 00:42   |                       |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 7.9967                | 73.9       | 40 - 126        | 13.883 | 13.892              | -0.0090 | N/A           |   |
| Tetrachlorometaxylene  | 7.9967                | 70.9       | 44 - 120        | 5.804  | 5.808667            | -0.0047 | N/A           |   |
| Decachlorobiphenyl [2C]  | 7.9967                | 69.7       | 40 - 126        | 14.111 | 14.12017            | -0.0092 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 7.9967                | 78.6       | 44 - 120        | 5.68   | 5.685333            | -0.0053 | N/A           |   |
| <b>BLA0558-MS1 (Solid)</b> Lab File ID: 02042327ECD7.D Analyzed: 02/05/23 01:03  |                       |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 8.0006                | 75.6       | 40 - 126        | 13.884 | 13.892              | -0.0080 | N/A           |   |
| Tetrachlorometaxylene  | 8.0006                | 73.5       | 44 - 120        | 5.805  | 5.808667            | -0.0037 | N/A           |   |
| Decachlorobiphenyl [2C]  | 8.0006                | 72.9       | 40 - 126        | 14.112 | 14.12017            | -0.0082 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 8.0006                | 80.9       | 44 - 120        | 5.681  | 5.685333            | -0.0043 | N/A           |   |
| <b>BLA0558-MSD1 (Solid)</b> Lab File ID: 02042328ECD7.D Analyzed: 02/05/23 01:24 |                       |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 8.0006                | 75.8       | 40 - 126        | 13.884 | 13.892              | -0.0080 | N/A           |   |
| Tetrachlorometaxylene  | 8.0006                | 71.8       | 44 - 120        | 5.804  | 5.808667            | -0.0047 | N/A           |   |
| Decachlorobiphenyl [2C]  | 8.0006                | 73.1       | 40 - 126        | 14.111 | 14.12017            | -0.0092 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 8.0006                | 77.8       | 44 - 120        | 5.68   | 5.685333            | -0.0053 | N/A           |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLB0084  
Calibration: GA00061

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: ECD7  
Calibration Date: 01/24/2023

| Surrogate Compound          | Spike Level ug/L | % Recovery                  | Recovery Limits | RT     | Calibration Mean RT      | RT Diff | RT Diff Limit | Q |
|-----------------------------|------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| <b>SLB0084-CCV3 (Solid)</b> |                  | Lab File ID: 02042329ECD7.D |                 |        | Analyzed: 02/05/23 01:45 |         |               |   |
| Decachlorobiphenyl          | 40.000           | 86.3                        | 80 - 120        | 13.889 | 13.892                   | -0.0030 | N/A           |   |
| Tetrachlorometaxylene       | 40.000           | 127                         | 80 - 120        | 5.806  | 5.808667                 | -0.0027 | N/A           | * |
| Decachlorobiphenyl [2C]     | 40.000           | 94.5                        | 80 - 120        | 14.115 | 14.12017                 | -0.0052 | N/A           |   |
| Tetrachlorometaxylene [2C]  | 40.000           | 125                         | 80 - 120        | 5.683  | 5.685333                 | -0.0023 | N/A           | * |
| <b>SLB0084-CCV4 (Solid)</b> |                  | Lab File ID: 02042330ECD7.D |                 |        | Analyzed: 02/05/23 02:06 |         |               |   |
| Decachlorobiphenyl          | 40.000           | 96.0                        | 80 - 120        | 13.888 | 13.892                   | -0.0040 | N/A           |   |
| Tetrachlorometaxylene       | 40.000           | 108                         | 80 - 120        | 5.807  | 5.808667                 | -0.0017 | N/A           |   |
| Decachlorobiphenyl [2C]     | 40.000           | 101                         | 80 - 120        | 14.115 | 14.12017                 | -0.0052 | N/A           |   |
| Tetrachlorometaxylene [2C]  | 40.000           | 106                         | 80 - 120        | 5.684  | 5.685333                 | -0.0013 | N/A           |   |
| <b>SLB0084-CCV5 (Solid)</b> |                  | Lab File ID: 02042345ECD7.D |                 |        | Analyzed: 02/05/23 07:23 |         |               |   |
| Decachlorobiphenyl          | 40.000           | 86.3                        | 80 - 120        | 13.889 | 13.892                   | -0.0030 | N/A           |   |
| Tetrachlorometaxylene       | 40.000           | 99.5                        | 80 - 120        | 5.805  | 5.808667                 | -0.0037 | N/A           |   |
| Decachlorobiphenyl [2C]     | 40.000           | 99.8                        | 80 - 120        | 14.115 | 14.12017                 | -0.0052 | N/A           |   |
| Tetrachlorometaxylene [2C]  | 40.000           | 101                         | 80 - 120        | 5.682  | 5.685333                 | -0.0033 | N/A           |   |
| <b>SLB0084-CCV6 (Solid)</b> |                  | Lab File ID: 02042346ECD7.D |                 |        | Analyzed: 02/05/23 07:44 |         |               |   |
| Decachlorobiphenyl          | 40.000           | 98.5                        | 80 - 120        | 13.888 | 13.892                   | -0.0040 | N/A           |   |
| Tetrachlorometaxylene       | 40.000           | 108                         | 80 - 120        | 5.806  | 5.808667                 | -0.0027 | N/A           |   |
| Decachlorobiphenyl [2C]     | 40.000           | 102                         | 80 - 120        | 14.115 | 14.12017                 | -0.0052 | N/A           |   |
| Tetrachlorometaxylene [2C]  | 40.000           | 107                         | 80 - 120        | 5.682  | 5.685333                 | -0.0033 | N/A           |   |
| <b>SLB0084-CCV7 (Solid)</b> |                  | Lab File ID: 02042358ECD7.D |                 |        | Analyzed: 02/05/23 11:57 |         |               |   |
| Decachlorobiphenyl          | 40.000           | 90.8                        | 80 - 120        | 13.888 | 13.892                   | -0.0040 | N/A           |   |
| Tetrachlorometaxylene       | 40.000           | 102                         | 80 - 120        | 5.805  | 5.808667                 | -0.0037 | N/A           |   |
| Decachlorobiphenyl [2C]     | 40.000           | 98.0                        | 80 - 120        | 14.115 | 14.12017                 | -0.0052 | N/A           |   |
| Tetrachlorometaxylene [2C]  | 40.000           | 105                         | 80 - 120        | 5.682  | 5.685333                 | -0.0033 | N/A           |   |
| <b>SLB0084-CCV8 (Solid)</b> |                  | Lab File ID: 02042359ECD7.D |                 |        | Analyzed: 02/05/23 12:18 |         |               |   |
| Decachlorobiphenyl          | 40.000           | 99.0                        | 80 - 120        | 13.888 | 13.892                   | -0.0040 | N/A           |   |
| Tetrachlorometaxylene       | 40.000           | 109                         | 80 - 120        | 5.805  | 5.808667                 | -0.0037 | N/A           |   |
| Decachlorobiphenyl [2C]     | 40.000           | 103                         | 80 - 120        | 14.116 | 14.12017                 | -0.0042 | N/A           |   |
| Tetrachlorometaxylene [2C]  | 40.000           | 108                         | 80 - 120        | 5.682  | 5.685333                 | -0.0033 | N/A           |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLB0086  
Calibration: GA00061

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: ECD7  
Calibration Date: 01/24/2023

| Surrogate Compound   | Spike Level ug/L | % Recovery | Recovery Limits | RT     | Calibration Mean RT | RT Diff | RT Diff Limit | Q  |
|--|------------------|------------|-----------------|--------|---------------------|---------|---------------|----|
| <b>SLB0086-ICV1 (Solid)</b> Lab File ID: 02062302ECD7.D Analyzed: 02/06/23 09:54 |                  |            |                 |        |                     |         |               |    |
| Decachlorobiphenyl   | 40.000           | 103        | 80 - 120        | 13.889 | 13.892              | -0.0030 | N/A           |    |
| Tetrachlorometaxylene  | 40.000           | 102        | 80 - 120        | 5.808  | 5.808667            | -0.0007 | N/A           |    |
| Decachlorobiphenyl [2C]  | 40.000           | 98.0       | 80 - 120        | 14.116 | 14.12017            | -0.0042 | N/A           |    |
| Tetrachlorometaxylene [2C]   | 40.000           | 102        | 80 - 120        | 5.684  | 5.685333            | -0.0013 | N/A           |    |
| <b>SLB0086-ICV2 (Solid)</b> Lab File ID: 02062303ECD7.D Analyzed: 02/06/23 10:15 |                  |            |                 |        |                     |         |               |    |
| Decachlorobiphenyl   | 40.000           | 98.3       | 80 - 120        | 13.889 | 13.892              | -0.0030 | N/A           |    |
| Tetrachlorometaxylene  | 40.000           | 108        | 80 - 120        | 5.808  | 5.808667            | -0.0007 | N/A           |    |
| Decachlorobiphenyl [2C]  | 40.000           | 102        | 80 - 120        | 14.116 | 14.12017            | -0.0042 | N/A           |    |
| Tetrachlorometaxylene [2C]   | 40.000           | 107        | 80 - 120        | 5.685  | 5.685333            | -0.0003 | N/A           |    |
| <b>23A0179-10 (Solid)</b> Lab File ID: 02062309ECD7.D Analyzed: 02/06/23 12:21   |                  |            |                 |        |                     |         |               |    |
| Decachlorobiphenyl   | 7.9938           |            | 40 - 126        | 13.891 | 13.892              | -0.0010 | N/A           | *  |
| Tetrachlorometaxylene  | 7.9938           |            | 44 - 120        | 5.807  | 5.808667            | -0.0017 | N/A           | D1 |
| Decachlorobiphenyl [2C]  | 7.9938           |            | 40 - 126        | 14.115 | 14.12017            | -0.0052 | N/A           | *  |
| Tetrachlorometaxylene [2C]   | 7.9938           |            | 44 - 120        | 5.686  | 5.685333            | 0.0007  | N/A           | D1 |
| <b>23A0179-09 (Solid)</b> Lab File ID: 02062310ECD7.D Analyzed: 02/06/23 12:42   |                  |            |                 |        |                     |         |               |    |
| Decachlorobiphenyl   | 7.9919           |            | 40 - 126        | 13.89  | 13.892              | -0.0020 | N/A           | *  |
| Tetrachlorometaxylene  | 7.9919           |            | 44 - 120        |        | 5.808667            | -5.8087 | N/A           | *  |
| Decachlorobiphenyl [2C]  | 7.9919           |            | 40 - 126        | 14.165 | 14.12017            | 0.0448  | N/A           | *  |
| Tetrachlorometaxylene [2C]   | 7.9919           |            | 44 - 120        |        | 5.685333            | -5.6853 | N/A           | *  |
| <b>SLB0086-CCV1 (Solid)</b> Lab File ID: 02062313ECD7.D Analyzed: 02/06/23 13:46 |                  |            |                 |        |                     |         |               |    |
| Decachlorobiphenyl   | 40.000           | 91.5       | 80 - 120        | 13.889 | 13.892              | -0.0030 | N/A           |    |
| Tetrachlorometaxylene  | 40.000           | 102        | 80 - 120        | 5.807  | 5.808667            | -0.0017 | N/A           |    |
| Decachlorobiphenyl [2C]  | 40.000           | 96.0       | 80 - 120        | 14.117 | 14.12017            | -0.0032 | N/A           |    |
| Tetrachlorometaxylene [2C]   | 40.000           | 102        | 80 - 120        | 5.685  | 5.685333            | -0.0003 | N/A           |    |
| <b>SLB0086-CCV2 (Solid)</b> Lab File ID: 02062314ECD7.D Analyzed: 02/06/23 14:07 |                  |            |                 |        |                     |         |               |    |
| Decachlorobiphenyl   | 40.000           | 95.5       | 80 - 120        | 13.889 | 13.892              | -0.0030 | N/A           |    |
| Tetrachlorometaxylene  | 40.000           | 107        | 80 - 120        | 5.808  | 5.808667            | -0.0007 | N/A           |    |
| Decachlorobiphenyl [2C]  | 40.000           | 105        | 80 - 120        | 14.117 | 14.12017            | -0.0032 | N/A           |    |
| Tetrachlorometaxylene [2C]   | 40.000           | 107        | 80 - 120        | 5.685  | 5.685333            | -0.0003 | N/A           |    |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLB0086  
Calibration: GA00061

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: ECD7  
Calibration Date: 01/24/2023

| Surrogate Compound   | Spike Level ug/kg dry | % Recovery | Recovery Limits | RT     | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|-----------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| <b>23A0179-11 (Solid)</b> Lab File ID: 02062315ECD7.D Analyzed: 02/06/23 14:28   |                       |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 7.9846                | 73.0       | 40 - 126        | 13.884 | 13.892              | -0.0080 | N/A           |   |
| Tetrachlorometaxylene  | 7.9846                | 64.0       | 44 - 120        | 5.805  | 5.808667            | -0.0037 | N/A           |   |
| Decachlorobiphenyl [2C]  | 7.9846                | 63.1       | 40 - 126        | 14.113 | 14.12017            | -0.0072 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 7.9846                | 73.9       | 44 - 120        | 5.681  | 5.685333            | -0.0043 | N/A           |   |
| <b>23A0179-12 (Solid)</b> Lab File ID: 02062316ECD7.D Analyzed: 02/06/23 14:49   |                       |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 7.9777                | 75.1       | 40 - 126        | 13.884 | 13.892              | -0.0080 | N/A           |   |
| Tetrachlorometaxylene  | 7.9777                | 67.5       | 44 - 120        | 5.805  | 5.808667            | -0.0037 | N/A           |   |
| Decachlorobiphenyl [2C]  | 7.9777                | 73.7       | 40 - 126        | 14.112 | 14.12017            | -0.0082 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 7.9777                | 74.5       | 44 - 120        | 5.682  | 5.685333            | -0.0033 | N/A           |   |
| <b>SLB0086-CCV3 (Solid)</b> Lab File ID: 02062322ECD7.D Analyzed: 02/06/23 16:55 |                       |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000                | 89.0       | 80 - 120        | 13.887 | 13.892              | -0.0050 | N/A           |   |
| Tetrachlorometaxylene  | 40.000                | 128        | 80 - 120        | 5.807  | 5.808667            | -0.0017 | N/A           | * |
| Decachlorobiphenyl [2C]  | 40.000                | 95.5       | 80 - 120        | 14.117 | 14.12017            | -0.0032 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000                | 128        | 80 - 120        | 5.685  | 5.685333            | -0.0003 | N/A           | * |
| <b>SLB0086-CCV4 (Solid)</b> Lab File ID: 02062323ECD7.D Analyzed: 02/06/23 17:16 |                       |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000                | 94.3       | 80 - 120        | 13.887 | 13.892              | -0.0050 | N/A           |   |
| Tetrachlorometaxylene  | 40.000                | 109        | 80 - 120        | 5.807  | 5.808667            | -0.0017 | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000                | 102        | 80 - 120        | 14.116 | 14.12017            | -0.0042 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000                | 108        | 80 - 120        | 5.684  | 5.685333            | -0.0013 | N/A           |   |
| <b>SLB0086-CCV5 (Solid)</b> Lab File ID: 02062338ECD7.D Analyzed: 02/06/23 22:31 |                       |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000                | 87.5       | 80 - 120        | 13.888 | 13.892              | -0.0040 | N/A           |   |
| Tetrachlorometaxylene  | 40.000                | 102        | 80 - 120        | 5.807  | 5.808667            | -0.0017 | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000                | 92.5       | 80 - 120        | 14.116 | 14.12017            | -0.0042 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000                | 102        | 80 - 120        | 5.684  | 5.685333            | -0.0013 | N/A           |   |
| <b>SLB0086-CCV6 (Solid)</b> Lab File ID: 02062339ECD7.D Analyzed: 02/06/23 22:52 |                       |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000                | 94.8       | 80 - 120        | 13.889 | 13.892              | -0.0030 | N/A           |   |
| Tetrachlorometaxylene  | 40.000                | 109        | 80 - 120        | 5.807  | 5.808667            | -0.0017 | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000                | 99.8       | 80 - 120        | 14.116 | 14.12017            | -0.0042 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000                | 108        | 80 - 120        | 5.684  | 5.685333            | -0.0013 | N/A           |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG/WO: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0086

Instrument: ECD7

Calibration: GA00061

Calibration Date: 01/24/2023

| Surrogate Compound          | Spike Level ug/L | % Recovery                  | Recovery Limits | RT     | Calibration Mean RT      | RT Diff | RT Diff Limit | Q |
|-----------------------------|------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| <b>SLB0086-CCV7 (Solid)</b> |                  | Lab File ID: 02062349ECD7.D |                 |        | Analyzed: 02/07/23 02:22 |         |               |   |
| Decachlorobiphenyl          | 40.000           | 92.3                        | 80 - 120        | 13.889 | 13.892                   | -0.0030 | N/A           |   |
| Tetrachlorometaxylene       | 40.000           | 104                         | 80 - 120        | 5.808  | 5.808667                 | -0.0007 | N/A           |   |
| Decachlorobiphenyl [2C]     | 40.000           | 98.5                        | 80 - 120        | 14.117 | 14.12017                 | -0.0032 | N/A           |   |
| Tetrachlorometaxylene [2C]  | 40.000           | 104                         | 80 - 120        | 5.684  | 5.685333                 | -0.0013 | N/A           |   |
| <b>SLB0086-CCV8 (Solid)</b> |                  | Lab File ID: 02062350ECD7.D |                 |        | Analyzed: 02/07/23 02:43 |         |               |   |
| Decachlorobiphenyl          | 40.000           | 96.3                        | 80 - 120        | 13.888 | 13.892                   | -0.0040 | N/A           |   |
| Tetrachlorometaxylene       | 40.000           | 107                         | 80 - 120        | 5.807  | 5.808667                 | -0.0017 | N/A           |   |
| Decachlorobiphenyl [2C]     | 40.000           | 101                         | 80 - 120        | 14.116 | 14.12017                 | -0.0042 | N/A           |   |
| Tetrachlorometaxylene [2C]  | 40.000           | 107                         | 80 - 120        | 5.684  | 5.685333                 | -0.0013 | N/A           |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC  
Client: Anchor OEA, LLC  
Sequence: SLE0079  
Calibration: GE00022

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: ECD7  
Calibration Date: 05/06/2023

| Surrogate Compound   | Spike Level ug/L | % Recovery | Recovery Limits | RT     | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| <b>SLE0079-SCV1 (Water)</b> Lab File ID: 05052332ECD7.D Analyzed: 05/06/23 03:16 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000           | 92.3       | 80 - 120        | 13.842 | 13.8415             | 0.0005  | N/A           |   |
| Tetrachlorometaxylene  | 40.000           | 92.2       | 80 - 120        | 5.741  | 5.742               | -0.0010 | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000           | 98.1       | 80 - 120        | 14.069 | 14.06967            | -0.0007 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000           | 93.1       | 80 - 120        | 5.628  | 5.628167            | -0.0002 | N/A           |   |
| <b>SLE0079-SCV2 (Water)</b> Lab File ID: 05052333ECD7.D Analyzed: 05/06/23 03:36 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000           | 102        | 80 - 120        | 13.842 | 13.8415             | 0.0005  | N/A           |   |
| Tetrachlorometaxylene  | 40.000           | 81.9       | 80 - 120        | 5.743  | 5.742               | 0.0010  | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000           | 110        | 80 - 120        | 14.069 | 14.06967            | -0.0007 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000           | 83.5       | 80 - 120        | 5.63   | 5.628167            | 0.0018  | N/A           |   |
| <b>SLE0079-SCV3 (Water)</b> Lab File ID: 05052334ECD7.D Analyzed: 05/06/23 03:57 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000           | 89.2       | 80 - 120        | 13.841 | 13.8415             | -0.0005 | N/A           |   |
| Tetrachlorometaxylene  | 40.000           | 92.0       | 80 - 120        | 5.741  | 5.742               | -0.0010 | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000           | 95.0       | 80 - 120        | 14.07  | 14.06967            | 0.0003  | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000           | 94.3       | 80 - 120        | 5.628  | 5.628167            | -0.0002 | N/A           |   |
| <b>SLE0079-SCV4 (Water)</b> Lab File ID: 05052335ECD7.D Analyzed: 05/06/23 04:18 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000           | 89.9       | 80 - 120        | 13.842 | 13.8415             | 0.0005  | N/A           |   |
| Tetrachlorometaxylene  | 40.000           | 94.0       | 80 - 120        | 5.743  | 5.742               | 0.0010  | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000           | 96.2       | 80 - 120        | 14.07  | 14.06967            | 0.0003  | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000           | 95.8       | 80 - 120        | 5.63   | 5.628167            | 0.0018  | N/A           |   |
| <b>SLE0079-SCV5 (Water)</b> Lab File ID: 05052336ECD7.D Analyzed: 05/06/23 04:39 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000           | 92.7       | 80 - 120        | 13.841 | 13.8415             | -0.0005 | N/A           |   |
| Tetrachlorometaxylene  | 40.000           | 94.5       | 80 - 120        | 5.742  | 5.742               | 0.0000  | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000           | 96.9       | 80 - 120        | 14.069 | 14.06967            | -0.0007 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000           | 97.6       | 80 - 120        | 5.628  | 5.628167            | -0.0002 | N/A           |   |
| <b>SLE0079-SCV6 (Water)</b> Lab File ID: 05052337ECD7.D Analyzed: 05/06/23 05:00 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000           | 138        | 80 - 120        | 13.841 | 13.8415             | -0.0005 | N/A           |   |
| Tetrachlorometaxylene  | 40.000           | 96.0       | 80 - 120        | 5.742  | 5.742               | 0.0000  | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000           | 148        | 80 - 120        | 14.068 | 14.06967            | -0.0017 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000           | 101        | 80 - 120        | 5.629  | 5.628167            | 0.0008  | N/A           |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8082A**

|              |                                  |                   |                        |
|--------------|----------------------------------|-------------------|------------------------|
| Laboratory:  | <u>Analytical Resources, LLC</u> | SDG/WO:           | <u>23A0179</u>         |
| Client:      | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Sequence:    | <u>SLE0303</u>                   | Instrument:       | <u>ECD7</u>            |
| Calibration: | <u>GE00022</u>                   | Calibration Date: | <u>05/06/2023</u>      |

| Surrogate Compound  | Spike Level ug/L | % Recovery | Recovery Limits | RT     | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|---|------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| <b>SLE0303-ICV1 (Solid)</b> Lab File ID: 05182302ECD7.D Analyzed: 05/18/23 11:32  |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl  | 40.000           | 99.3       | 80 - 120        | 13.84  | 13.8415             | -0.0015 | N/A           |   |
| Tetrachlorometaxylene   | 40.000           | 98.8       | 80 - 120        | 5.743  | 5.742               | 0.0010  | N/A           |   |
| Decachlorobiphenyl [2C]   | 40.000           | 104        | 80 - 120        | 14.066 | 14.06967            | -0.0037 | N/A           |   |
| Tetrachlorometaxylene [2C]  | 40.000           | 103        | 80 - 120        | 5.627  | 5.628167            | -0.0012 | N/A           |   |
| <b>SLE0303-ICV2 (Solid)</b> Lab File ID: 05182303ECD7.D Analyzed: 05/18/23 11:53  |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl  | 40.000           | 100        | 80 - 120        | 13.841 | 13.8415             | -0.0005 | N/A           |   |
| Tetrachlorometaxylene   | 40.000           | 103        | 80 - 120        | 5.742  | 5.742               | 0.0000  | N/A           |   |
| Decachlorobiphenyl [2C]   | 40.000           | 106        | 80 - 120        | 14.069 | 14.06967            | -0.0007 | N/A           |   |
| Tetrachlorometaxylene [2C]  | 40.000           | 104        | 80 - 120        | 5.628  | 5.628167            | -0.0002 | N/A           |   |
| <b>SLE0303-CCV1 (Solid)</b> Lab File ID: 05182307ECD7.D Analyzed: 05/18/23 13:16  |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl  | 40.000           | 97.0       | 80 - 120        | 13.84  | 13.8415             | -0.0015 | N/A           |   |
| Tetrachlorometaxylene   | 40.000           | 97.5       | 80 - 120        | 5.742  | 5.742               | 0.0000  | N/A           |   |
| Decachlorobiphenyl [2C]   | 40.000           | 102        | 80 - 120        | 14.068 | 14.06967            | -0.0017 | N/A           |   |
| Tetrachlorometaxylene [2C]  | 40.000           | 100        | 80 - 120        | 5.629  | 5.628167            | 0.0008  | N/A           |   |
| <b>SLE0303-CCV2 (Solid)</b> Lab File ID: 05182308ECD7.D Analyzed: 05/18/23 13:37  |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl  | 40.000           | 104        | 80 - 120        | 13.84  | 13.8415             | -0.0015 | N/A           |   |
| Tetrachlorometaxylene   | 40.000           | 106        | 80 - 120        | 5.742  | 5.742               | 0.0000  | N/A           |   |
| Decachlorobiphenyl [2C]   | 40.000           | 106        | 80 - 120        | 14.068 | 14.06967            | -0.0017 | N/A           |   |
| Tetrachlorometaxylene [2C]  | 40.000           | 104        | 80 - 120        | 5.628  | 5.628167            | -0.0002 | N/A           |   |
| <b>23A0179-10RE1 (Solid)</b> Lab File ID: 05182309ECD7.D Analyzed: 05/18/23 13:58 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl  | 7.9938           | 124        | 40 - 126        | 13.832 | 13.8415             | -0.0095 | N/A           |   |
| Tetrachlorometaxylene   | 7.9938           | 88.3       | 44 - 120        | 5.74   | 5.742               | -0.0020 | N/A           |   |
| Decachlorobiphenyl [2C]   | 7.9938           | 100        | 40 - 126        | 14.062 | 14.06967            | -0.0077 | N/A           |   |
| Tetrachlorometaxylene [2C]  | 7.9938           | 91.9       | 44 - 120        | 5.626  | 5.628167            | -0.0022 | N/A           |   |
| <b>SLE0303-CCV3 (Solid)</b> Lab File ID: 05182310ECD7.D Analyzed: 05/18/23 14:19  |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl  | 40.000           | 93.5       | 80 - 120        | 13.84  | 13.8415             | -0.0015 | N/A           |   |
| Tetrachlorometaxylene   | 40.000           | 120        | 80 - 120        | 5.741  | 5.742               | -0.0010 | N/A           |   |
| Decachlorobiphenyl [2C]   | 40.000           | 107        | 80 - 120        | 14.068 | 14.06967            | -0.0017 | N/A           |   |
| Tetrachlorometaxylene [2C]  | 40.000           | 121        | 80 - 120        | 5.627  | 5.628167            | -0.0012 | N/A           | * |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8082A**

|              |                                  |                   |                        |
|--------------|----------------------------------|-------------------|------------------------|
| Laboratory:  | <u>Analytical Resources, LLC</u> | SDG/WO:           | <u>23A0179</u>         |
| Client:      | <u>Anchor QEA, LLC</u>           | Project:          | <u>AOC5 MR Phase 1</u> |
| Sequence:    | <u>SLE0303</u>                   | Instrument:       | <u>ECD7</u>            |
| Calibration: | <u>GE00022</u>                   | Calibration Date: | <u>05/06/2023</u>      |

| Surrogate Compound          | Spike Level ug/L | % Recovery                  | Recovery Limits | RT     | Calibration Mean RT      | RT Diff | RT Diff Limit | Q |
|-----------------------------|------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| <b>SLE0303-CCV4 (Solid)</b> |                  | Lab File ID: 05182311ECD7.D |                 |        | Analyzed: 05/18/23 14:40 |         |               |   |
| Decachlorobiphenyl          | 40.000           | 100                         | 80 - 120        | 13.84  | 13.8415                  | -0.0015 | N/A           |   |
| Tetrachlorometaxylene       | 40.000           | 103                         | 80 - 120        | 5.742  | 5.742                    | 0.0000  | N/A           |   |
| Decachlorobiphenyl [2C]     | 40.000           | 105                         | 80 - 120        | 14.067 | 14.06967                 | -0.0027 | N/A           |   |
| Tetrachlorometaxylene [2C]  | 40.000           | 103                         | 80 - 120        | 5.629  | 5.628167                 | 0.0008  | N/A           |   |





**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC  
Client: Anchor OEA, LLC  
Sequence: SLE0480  
Calibration: GE00022

SDG/WO: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: ECD7  
Calibration Date: 05/06/2023

| Surrogate Compound   | Spike Level ug/L | % Recovery | Recovery Limits | RT     | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| <b>SLE0480-ICV1 (Solid)</b> Lab File ID: 05312309ECD7.D Analyzed: 05/31/23 15:11 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000           | 102        | 80 - 120        | 13.843 | 13.8415             | 0.0015  | N/A           |   |
| Tetrachlorometaxylene  | 40.000           | 97.0       | 80 - 120        | 5.743  | 5.742               | 0.0010  | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000           | 104        | 80 - 120        | 14.068 | 14.06967            | -0.0017 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000           | 97.5       | 80 - 120        | 5.629  | 5.628167            | 0.0008  | N/A           |   |
| <b>SLE0480-ICV2 (Solid)</b> Lab File ID: 05312310ECD7.D Analyzed: 05/31/23 15:32 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000           | 103        | 80 - 120        | 13.841 | 13.8415             | -0.0005 | N/A           |   |
| Tetrachlorometaxylene  | 40.000           | 103        | 80 - 120        | 5.743  | 5.742               | 0.0010  | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000           | 108        | 80 - 120        | 14.069 | 14.06967            | -0.0007 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000           | 102        | 80 - 120        | 5.629  | 5.628167            | 0.0008  | N/A           |   |
| <b>BLE0737-BLK1 (Solid)</b> Lab File ID: 05312311ECD7.D Analyzed: 05/31/23 15:53 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 8.0000           | 83.5       | 40 - 126        | 13.838 | 13.8415             | -0.0035 | N/A           |   |
| Tetrachlorometaxylene  | 8.0000           | 71.2       | 44 - 120        | 5.742  | 5.742               | 0.0000  | N/A           |   |
| Decachlorobiphenyl [2C]  | 8.0000           | 87.4       | 40 - 126        | 14.067 | 14.06967            | -0.0027 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 8.0000           | 69.6       | 44 - 120        | 5.629  | 5.628167            | 0.0008  | N/A           |   |
| <b>BLE0737-BS1 (Solid)</b> Lab File ID: 05312312ECD7.D Analyzed: 05/31/23 16:13  |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 8.0000           | 87.6       | 40 - 126        | 13.838 | 13.8415             | -0.0035 | N/A           |   |
| Tetrachlorometaxylene  | 8.0000           | 77.3       | 44 - 120        | 5.742  | 5.742               | 0.0000  | N/A           |   |
| Decachlorobiphenyl [2C]  | 8.0000           | 92.4       | 40 - 126        | 14.068 | 14.06967            | -0.0017 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 8.0000           | 74.5       | 44 - 120        | 5.63   | 5.628167            | 0.0018  | N/A           |   |
| <b>BLE0737-BSD1 (Solid)</b> Lab File ID: 05312313ECD7.D Analyzed: 05/31/23 16:34 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 8.0000           | 82.2       | 40 - 126        | 13.839 | 13.8415             | -0.0025 | N/A           |   |
| Tetrachlorometaxylene  | 8.0000           | 76.2       | 44 - 120        | 5.742  | 5.742               | 0.0000  | N/A           |   |
| Decachlorobiphenyl [2C]  | 8.0000           | 87.0       | 40 - 126        | 14.067 | 14.06967            | -0.0027 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 8.0000           | 74.1       | 44 - 120        | 5.63   | 5.628167            | 0.0018  | N/A           |   |
| <b>BLE0737-SRM1 (Solid)</b> Lab File ID: 05312314ECD7.D Analyzed: 05/31/23 16:55 |                  |            |                 |        |                     |         |               |   |
| Decachlorobiphenyl   | 40.000           | 81.0       | 40 - 126        | 13.834 | 13.8415             | -0.0075 | N/A           |   |
| Tetrachlorometaxylene  | 40.000           | 70.1       | 44 - 120        | 5.741  | 5.742               | -0.0010 | N/A           |   |
| Decachlorobiphenyl [2C]  | 40.000           | 76.3       | 40 - 126        | 14.063 | 14.06967            | -0.0067 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000           | 71.6       | 44 - 120        | 5.627  | 5.628167            | -0.0012 | N/A           |   |



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG/WO: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLE0480

Instrument: ECD7

Calibration: GE00022

Calibration Date: 05/06/2023

| Surrogate Compound           | Spike Level ug/kg dry | % Recovery                  | Recovery Limits | RT     | Calibration Mean RT      | RT Diff | RT Diff Limit | Q |
|------------------------------|-----------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| <b>23A0179-10RE2 (Solid)</b> |                       | Lab File ID: 05312315ECD7.D |                 |        | Analyzed: 05/31/23 17:16 |         |               |   |
| Decachlorobiphenyl           | 7.9938                | 69.7                        | 40 - 126        | 13.83  | 13.8415                  | -0.0115 | N/A           |   |
| Tetrachlorometaxylene        | 7.9938                | 52.0                        | 44 - 120        | 5.74   | 5.742                    | -0.0020 | N/A           |   |
| Decachlorobiphenyl [2C]      | 7.9938                | 68.5                        | 40 - 126        | 14.061 | 14.06967                 | -0.0087 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 7.9938                | 62.1                        | 44 - 120        | 5.623  | 5.628167                 | -0.0052 | N/A           |   |
| <b>BLE0737-MS1 (Solid)</b>   |                       | Lab File ID: 05312316ECD7.D |                 |        | Analyzed: 05/31/23 17:37 |         |               |   |
| Decachlorobiphenyl           | 8.0001                | 70.0                        | 40 - 126        | 13.831 | 13.8415                  | -0.0105 | N/A           |   |
| Tetrachlorometaxylene        | 8.0001                | 47.4                        | 44 - 120        | 5.74   | 5.742                    | -0.0020 | N/A           |   |
| Decachlorobiphenyl [2C]      | 8.0001                | 68.6                        | 40 - 126        | 14.06  | 14.06967                 | -0.0097 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 8.0001                | 63.2                        | 44 - 120        | 5.623  | 5.628167                 | -0.0052 | N/A           |   |
| <b>BLE0737-MSD1 (Solid)</b>  |                       | Lab File ID: 05312317ECD7.D |                 |        | Analyzed: 05/31/23 17:58 |         |               |   |
| Decachlorobiphenyl           | 8.0001                | 75.1                        | 40 - 126        | 13.83  | 13.8415                  | -0.0115 | N/A           |   |
| Tetrachlorometaxylene        | 8.0001                | 53.4                        | 44 - 120        | 5.741  | 5.742                    | -0.0010 | N/A           |   |
| Decachlorobiphenyl [2C]      | 8.0001                | 74.6                        | 40 - 126        | 14.061 | 14.06967                 | -0.0087 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 8.0001                | 68.7                        | 44 - 120        | 5.623  | 5.628167                 | -0.0052 | N/A           |   |
| <b>SLE0480-CCV1 (Solid)</b>  |                       | Lab File ID: 05312327ECD7.D |                 |        | Analyzed: 05/31/23 21:26 |         |               |   |
| Decachlorobiphenyl           | 40.000                | 97.3                        | 80 - 120        | 13.842 | 13.8415                  | 0.0005  | N/A           |   |
| Tetrachlorometaxylene        | 40.000                | 95.8                        | 80 - 120        | 5.743  | 5.742                    | 0.0010  | N/A           |   |
| Decachlorobiphenyl [2C]      | 40.000                | 102                         | 80 - 120        | 14.07  | 14.06967                 | 0.0003  | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000                | 95.5                        | 80 - 120        | 5.63   | 5.628167                 | 0.0018  | N/A           |   |
| <b>SLE0480-CCV2 (Solid)</b>  |                       | Lab File ID: 05312328ECD7.D |                 |        | Analyzed: 05/31/23 21:47 |         |               |   |
| Decachlorobiphenyl           | 40.000                | 103                         | 80 - 120        | 13.842 | 13.8415                  | 0.0005  | N/A           |   |
| Tetrachlorometaxylene        | 40.000                | 102                         | 80 - 120        | 5.745  | 5.742                    | 0.0030  | N/A           |   |
| Decachlorobiphenyl [2C]      | 40.000                | 105                         | 80 - 120        | 14.069 | 14.06967                 | -0.0007 | N/A           |   |
| Tetrachlorometaxylene [2C]   | 40.000                | 101                         | 80 - 120        | 5.632  | 5.628167                 | 0.0038  | N/A           |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLA0281

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: ECD7  
Calibration: GA00061

| Internal Standard                         | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|---|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Secondary Cal Check (SLA0281-SCV1)</b> |          | (Solid) | Lab File ID: 01242324ECD7.D |              |        | Analyzed: 01/24/23 19:51 |         |               |   |
| 1-Bromo-2-Nitrobenzene                    | 506576   | 3.491   | 503318                      | 3.492        | 101    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl                         | 940129   | 14.264  | 647433                      | 14.266       | 145    | 50 - 200                 | -0.002  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]               | 343102   | 3.928   | 336911                      | 3.928        | 102    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                    | 501702   | 15.008  | 382032                      | 15.008       | 131    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>Secondary Cal Check (SLA0281-SCV2)</b> |          | (Solid) | Lab File ID: 01242325ECD7.D |              |        | Analyzed: 01/24/23 20:12 |         |               |   |
| 1-Bromo-2-Nitrobenzene                    | 503089   | 3.492   | 503318                      | 3.492        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                         | 953137   | 14.265  | 647433                      | 14.266       | 147    | 50 - 200                 | -0.001  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]               | 341704   | 3.929   | 336911                      | 3.928        | 101    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                    | 505860   | 15.007  | 382032                      | 15.008       | 132    | 50 - 200                 | -0.001  | +/-0.50       |   |
| <b>Secondary Cal Check (SLA0281-SCV3)</b> |          | (Solid) | Lab File ID: 01242326ECD7.D |              |        | Analyzed: 01/24/23 20:33 |         |               |   |
| 1-Bromo-2-Nitrobenzene                    | 508189   | 3.491   | 503318                      | 3.492        | 101    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl                         | 979067   | 14.265  | 647433                      | 14.266       | 151    | 50 - 200                 | -0.001  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]               | 344105   | 3.928   | 336911                      | 3.928        | 102    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                    | 503378   | 15.007  | 382032                      | 15.008       | 132    | 50 - 200                 | -0.001  | +/-0.50       |   |
| <b>Secondary Cal Check (SLA0281-SCV4)</b> |          | (Solid) | Lab File ID: 01242327ECD7.D |              |        | Analyzed: 01/24/23 20:54 |         |               |   |
| 1-Bromo-2-Nitrobenzene                    | 504424   | 3.491   | 503318                      | 3.492        | 100    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl                         | 968338   | 14.265  | 647433                      | 14.266       | 150    | 50 - 200                 | -0.001  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]               | 342969   | 3.928   | 336911                      | 3.928        | 102    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                    | 515045   | 15.01   | 382032                      | 15.008       | 135    | 50 - 200                 | 0.002   | +/-0.50       |   |
| <b>Secondary Cal Check (SLA0281-SCV5)</b> |          | (Solid) | Lab File ID: 01242328ECD7.D |              |        | Analyzed: 01/24/23 21:15 |         |               |   |
| 1-Bromo-2-Nitrobenzene                    | 503473   | 3.491   | 503318                      | 3.492        | 100    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl                         | 991997   | 14.264  | 647433                      | 14.266       | 153    | 50 - 200                 | -0.002  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]               | 340361   | 3.928   | 336911                      | 3.928        | 101    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                    | 521975   | 15.008  | 382032                      | 15.008       | 137    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>Secondary Cal Check (SLA0281-SCV6)</b> |          | (Solid) | Lab File ID: 01242329ECD7.D |              |        | Analyzed: 01/24/23 21:36 |         |               |   |
| 1-Bromo-2-Nitrobenzene                    | 487061   | 3.494   | 503318                      | 3.492        | 97     | 50 - 200                 | 0.002   | +/-0.50       |   |
| Hexabromobiphenyl                         | 944934   | 14.266  | 647433                      | 14.266       | 146    | 50 - 200                 | 0.000   | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]               | 331721   | 3.93    | 336911                      | 3.928        | 98     | 50 - 200                 | 0.002   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                    | 502401   | 15.007  | 382032                      | 15.008       | 132    | 50 - 200                 | -0.001  | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLB0084

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: ECD7  
Calibration: GA00061

| Internal Standard                       | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|---|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Initial Cal Check (SLB0084-ICV1)</b> |          | (Solid) | Lab File ID: 02042302ECD7.D |              |        | Analyzed: 02/04/23 16:16 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 445657   | 3.49    | 445657                      | 3.49         | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                       | 603824   | 14.258  | 603824                      | 14.258       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 355423   | 3.926   | 355423                      | 3.926        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 421154   | 15.004  | 421154                      | 15.004       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>Initial Cal Check (SLB0084-ICV2)</b> |          | (Solid) | Lab File ID: 02042303ECD7.D |              |        | Analyzed: 02/04/23 16:37 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 423364   | 3.489   | 423364                      | 3.489        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                       | 638765   | 14.258  | 638765                      | 14.258       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 341362   | 3.926   | 341362                      | 3.926        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 415854   | 15.003  | 415854                      | 15.003       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>Blank (BLA0558-BLK1)</b>             |          | (Solid) | Lab File ID: 02042315ECD7.D |              |        | Analyzed: 02/04/23 20:50 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 443643   | 3.489   | 423364                      | 3.489        | 105    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                       | 671035   | 14.256  | 638765                      | 14.258       | 105    | 50 - 200                 | -0.002  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 356613   | 3.926   | 341362                      | 3.926        | 104    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 464053   | 15      | 415854                      | 15.003       | 112    | 50 - 200                 | -0.003  | +/-0.50       |   |
| <b>LCS (BLA0558-BS1)</b>                |          | (Solid) | Lab File ID: 02042316ECD7.D |              |        | Analyzed: 02/04/23 21:11 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 466752   | 3.49    | 423364                      | 3.489        | 110    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Hexabromobiphenyl                       | 745704   | 14.258  | 638765                      | 14.258       | 117    | 50 - 200                 | 0.000   | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 372629   | 3.926   | 341362                      | 3.926        | 109    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 490377   | 15.001  | 415854                      | 15.003       | 118    | 50 - 200                 | -0.002  | +/-0.50       |   |
| <b>LCS Dup (BLA0558-BSD1)</b>           |          | (Solid) | Lab File ID: 02042317ECD7.D |              |        | Analyzed: 02/04/23 21:32 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 467754   | 3.49    | 423364                      | 3.489        | 110    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Hexabromobiphenyl                       | 752163   | 14.256  | 638765                      | 14.258       | 118    | 50 - 200                 | -0.002  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 371351   | 3.926   | 341362                      | 3.926        | 109    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 509777   | 15.001  | 415854                      | 15.003       | 123    | 50 - 200                 | -0.002  | +/-0.50       |   |
| <b>Reference (BLA0558-SRM1)</b>         |          | (Solid) | Lab File ID: 02042318ECD7.D |              |        | Analyzed: 02/04/23 21:53 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 454698   | 3.49    | 423364                      | 3.489        | 107    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Hexabromobiphenyl                       | 594837   | 14.251  | 638765                      | 14.258       | 93     | 50 - 200                 | -0.007  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 356107   | 3.926   | 341362                      | 3.926        | 104    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 452443   | 14.997  | 415854                      | 15.003       | 109    | 50 - 200                 | -0.006  | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0084

Instrument: ECD7

Calibration: GA00061

| Internal Standard                 | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|-----------------------------------|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>LDW23-SS1277 (23A0179-01 )</b> |          | (Solid) | Lab File ID: 02042319ECD7.D |              |        | Analyzed: 02/04/23 22:14 |         |               |   |
| 1-Bromo-2-Nitrobenzene            | 447571   | 3.49    | 423364                      | 3.489        | 106    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Hexabromobiphenyl                 | 461811   | 14.248  | 638765                      | 14.258       | 72     | 50 - 200                 | -0.010  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]       | 353223   | 3.927   | 341362                      | 3.926        | 103    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Hexabromobiphenyl [2C]            | 379655   | 14.996  | 415854                      | 15.003       | 91     | 50 - 200                 | -0.007  | +/-0.50       |   |
| <b>LDW23-SS1271 (23A0179-02 )</b> |          | (Solid) | Lab File ID: 02042320ECD7.D |              |        | Analyzed: 02/04/23 22:35 |         |               |   |
| 1-Bromo-2-Nitrobenzene            | 456223   | 3.49    | 423364                      | 3.489        | 108    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Hexabromobiphenyl                 | 439404   | 14.248  | 638765                      | 14.258       | 69     | 50 - 200                 | -0.010  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]       | 351658   | 3.926   | 341362                      | 3.926        | 103    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]            | 354229   | 14.995  | 415854                      | 15.003       | 85     | 50 - 200                 | -0.008  | +/-0.50       |   |
| <b>LDW23-SS1266 (23A0179-03 )</b> |          | (Solid) | Lab File ID: 02042321ECD7.D |              |        | Analyzed: 02/04/23 22:57 |         |               |   |
| 1-Bromo-2-Nitrobenzene            | 452406   | 3.489   | 423364                      | 3.489        | 107    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                 | 428402   | 14.247  | 638765                      | 14.258       | 67     | 50 - 200                 | -0.011  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]       | 346582   | 3.925   | 341362                      | 3.926        | 102    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl [2C]            | 352134   | 14.995  | 415854                      | 15.003       | 85     | 50 - 200                 | -0.008  | +/-0.50       |   |
| <b>LDW23-SS1248 (23A0179-04 )</b> |          | (Solid) | Lab File ID: 02042322ECD7.D |              |        | Analyzed: 02/04/23 23:18 |         |               |   |
| 1-Bromo-2-Nitrobenzene            | 442563   | 3.489   | 423364                      | 3.489        | 105    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                 | 415807   | 14.247  | 638765                      | 14.258       | 65     | 50 - 200                 | -0.011  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]       | 339956   | 3.925   | 341362                      | 3.926        | 100    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl [2C]            | 342376   | 14.995  | 415854                      | 15.003       | 82     | 50 - 200                 | -0.008  | +/-0.50       |   |
| <b>LDW23-SS1239 (23A0179-05 )</b> |          | (Solid) | Lab File ID: 02042323ECD7.D |              |        | Analyzed: 02/04/23 23:39 |         |               |   |
| 1-Bromo-2-Nitrobenzene            | 438820   | 3.488   | 423364                      | 3.489        | 104    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl                 | 421110   | 14.248  | 638765                      | 14.258       | 66     | 50 - 200                 | -0.010  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]       | 341604   | 3.925   | 341362                      | 3.926        | 100    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl [2C]            | 344940   | 14.994  | 415854                      | 15.003       | 83     | 50 - 200                 | -0.009  | +/-0.50       |   |
| <b>LDW23-SS1213 (23A0179-06 )</b> |          | (Solid) | Lab File ID: 02042324ECD7.D |              |        | Analyzed: 02/05/23 00:00 |         |               |   |
| 1-Bromo-2-Nitrobenzene            | 446889   | 3.489   | 423364                      | 3.489        | 106    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                 | 418747   | 14.248  | 638765                      | 14.258       | 66     | 50 - 200                 | -0.010  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]       | 345378   | 3.925   | 341362                      | 3.926        | 101    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl [2C]            | 352939   | 14.995  | 415854                      | 15.003       | 85     | 50 - 200                 | -0.008  | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0084

Instrument: ECD7

Calibration: GA00061

| Internal Standard                       | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|---|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>LDW23-SS1200 (23A0179-07 )</b>       |          | (Solid) | Lab File ID: 02042325ECD7.D |              |        | Analyzed: 02/05/23 00:21 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 450847   | 3.49    | 423364                      | 3.489        | 106    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Hexabromobiphenyl                       | 432014   | 14.248  | 638765                      | 14.258       | 68     | 50 - 200                 | -0.010  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 346633   | 3.927   | 341362                      | 3.926        | 102    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 359591   | 14.996  | 415854                      | 15.003       | 86     | 50 - 200                 | -0.007  | +/-0.50       |   |
| <b>LDW23-SS1178 (23A0179-08 )</b>       |          | (Solid) | Lab File ID: 02042326ECD7.D |              |        | Analyzed: 02/05/23 00:42 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 445057   | 3.489   | 423364                      | 3.489        | 105    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                       | 434795   | 14.247  | 638765                      | 14.258       | 68     | 50 - 200                 | -0.011  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 349055   | 3.925   | 341362                      | 3.926        | 102    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 363274   | 14.995  | 415854                      | 15.003       | 87     | 50 - 200                 | -0.008  | +/-0.50       |   |
| <b>Matrix Spike (BLA0558-MS1 )</b>      |          | (Solid) | Lab File ID: 02042327ECD7.D |              |        | Analyzed: 02/05/23 01:03 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 430049   | 3.49    | 423364                      | 3.489        | 102    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Hexabromobiphenyl                       | 409431   | 14.248  | 638765                      | 14.258       | 64     | 50 - 200                 | -0.010  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 335673   | 3.927   | 341362                      | 3.926        | 98     | 50 - 200                 | 0.001   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 344095   | 14.995  | 415854                      | 15.003       | 83     | 50 - 200                 | -0.008  | +/-0.50       |   |
| <b>Matrix Spike Dup (BLA0558-MSD1 )</b> |          | (Solid) | Lab File ID: 02042328ECD7.D |              |        | Analyzed: 02/05/23 01:24 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 450183   | 3.489   | 423364                      | 3.489        | 106    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                       | 409715   | 14.247  | 638765                      | 14.258       | 64     | 50 - 200                 | -0.011  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 346307   | 3.925   | 341362                      | 3.926        | 101    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 349254   | 14.995  | 415854                      | 15.003       | 84     | 50 - 200                 | -0.008  | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLB0086

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: ECD7  
Calibration: GA00061

| Internal Standard                        | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|--|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Initial Cal Check (SLB0086-ICV1 )</b> |          | (Solid) | Lab File ID: 02062302ECD7.D |              |        | Analyzed: 02/06/23 09:54 |         |               |   |
| 1-Bromo-2-Nitrobenzene                   | 479907   | 3.492   | 479907                      | 3.492        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                        | 614840   | 14.256  | 614840                      | 14.256       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]              | 399612   | 3.928   | 399612                      | 3.928        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                   | 429384   | 15.002  | 429384                      | 15.002       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>Initial Cal Check (SLB0086-ICV2 )</b> |          | (Solid) | Lab File ID: 02062303ECD7.D |              |        | Analyzed: 02/06/23 10:15 |         |               |   |
| 1-Bromo-2-Nitrobenzene                   | 473401   | 3.492   | 473401                      | 3.492        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                        | 704074   | 14.258  | 704074                      | 14.258       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]              | 392302   | 3.929   | 392302                      | 3.929        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                   | 452930   | 15.003  | 452930                      | 15.003       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>LDW23-SS1112 (23A0179-10 )</b>        |          | (Solid) | Lab File ID: 02062309ECD7.D |              |        | Analyzed: 02/06/23 12:21 |         |               |   |
| 1-Bromo-2-Nitrobenzene                   | 351266   | 3.492   | 473401                      | 3.492        | 74     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                        | 589960   | 14.255  | 704074                      | 14.258       | 84     | 50 - 200                 | -0.003  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]              | 328525   | 3.928   | 392302                      | 3.929        | 84     | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl [2C]                   | 428207   | 15.002  | 452930                      | 15.003       | 95     | 50 - 200                 | -0.001  | +/-0.50       |   |
| <b>LDW23-SS1171 (23A0179-09 )</b>        |          | (Solid) | Lab File ID: 02062310ECD7.D |              |        | Analyzed: 02/06/23 12:42 |         |               |   |
| 1-Bromo-2-Nitrobenzene                   | 374849   | 3.492   | 473401                      | 3.492        | 79     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                        | 659326   | 14.258  | 704074                      | 14.258       | 94     | 50 - 200                 | 0.000   | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]              | 344023   | 3.929   | 392302                      | 3.929        | 88     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                   | 513415   | 15.003  | 452930                      | 15.003       | 113    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>LDW23-SS1039 (23A0179-11 )</b>        |          | (Solid) | Lab File ID: 02062315ECD7.D |              |        | Analyzed: 02/06/23 14:28 |         |               |   |
| 1-Bromo-2-Nitrobenzene                   | 345527   | 3.492   | 473401                      | 3.492        | 73     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                        | 352219   | 14.248  | 704074                      | 14.258       | 50     | 50 - 200                 | -0.010  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]              | 288623   | 3.928   | 392302                      | 3.929        | 74     | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl [2C]                   | 350225   | 14.996  | 452930                      | 15.003       | 77     | 50 - 200                 | -0.007  | +/-0.50       |   |
| <b>LDW23-SS1007 (23A0179-12 )</b>        |          | (Solid) | Lab File ID: 02062316ECD7.D |              |        | Analyzed: 02/06/23 14:49 |         |               |   |
| 1-Bromo-2-Nitrobenzene                   | 338395   | 3.491   | 473401                      | 3.492        | 71     | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl                        | 332935   | 14.247  | 704074                      | 14.258       | 47     | 50 - 200                 | -0.011  | +/-0.50       | * |
| 1-Bromo-2-Nitrobenzene [2C]              | 294775   | 3.928   | 392302                      | 3.929        | 75     | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl [2C]                   | 305436   | 14.995  | 452930                      | 15.003       | 67     | 50 - 200                 | -0.008  | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLE0079

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: ECD7  
Calibration: GE00022

| Internal Standard                         | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|---|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Secondary Cal Check (SLE0079-SCV1)</b> |          | (Water) | Lab File ID: 05052332ECD7.D |              |        | Analyzed: 05/06/23 03:16 |         |               |   |
| 1-Bromo-2-Nitrobenzene                    | 642284   | 3.428   | 601474                      | 3.428        | 107    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                         | 941356   | 14.215  | 876625                      | 14.215       | 107    | 50 - 200                 | 0.000   | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]               | 361711   | 3.868   | 349289                      | 3.869        | 104    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl [2C]                    | 690563   | 14.957  | 652984                      | 14.956       | 106    | 50 - 200                 | 0.001   | +/-0.50       |   |
| <b>Secondary Cal Check (SLE0079-SCV2)</b> |          | (Water) | Lab File ID: 05052333ECD7.D |              |        | Analyzed: 05/06/23 03:36 |         |               |   |
| 1-Bromo-2-Nitrobenzene                    | 648004   | 3.43    | 601474                      | 3.428        | 108    | 50 - 200                 | 0.002   | +/-0.50       |   |
| Hexabromobiphenyl                         | 976327   | 14.214  | 876625                      | 14.215       | 111    | 50 - 200                 | -0.001  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]               | 365379   | 3.87    | 349289                      | 3.869        | 105    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                    | 695394   | 14.957  | 652984                      | 14.956       | 106    | 50 - 200                 | 0.001   | +/-0.50       |   |
| <b>Secondary Cal Check (SLE0079-SCV3)</b> |          | (Water) | Lab File ID: 05052334ECD7.D |              |        | Analyzed: 05/06/23 03:57 |         |               |   |
| 1-Bromo-2-Nitrobenzene                    | 643038   | 3.428   | 601474                      | 3.428        | 107    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                         | 952051   | 14.215  | 876625                      | 14.215       | 109    | 50 - 200                 | 0.000   | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]               | 359604   | 3.868   | 349289                      | 3.869        | 103    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl [2C]                    | 692982   | 14.957  | 652984                      | 14.956       | 106    | 50 - 200                 | 0.001   | +/-0.50       |   |
| <b>Secondary Cal Check (SLE0079-SCV4)</b> |          | (Water) | Lab File ID: 05052335ECD7.D |              |        | Analyzed: 05/06/23 04:18 |         |               |   |
| 1-Bromo-2-Nitrobenzene                    | 650234   | 3.43    | 601474                      | 3.428        | 108    | 50 - 200                 | 0.002   | +/-0.50       |   |
| Hexabromobiphenyl                         | 980276   | 14.214  | 876625                      | 14.215       | 112    | 50 - 200                 | -0.001  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]               | 364142   | 3.87    | 349289                      | 3.869        | 104    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                    | 705291   | 14.957  | 652984                      | 14.956       | 108    | 50 - 200                 | 0.001   | +/-0.50       |   |
| <b>Secondary Cal Check (SLE0079-SCV5)</b> |          | (Water) | Lab File ID: 05052336ECD7.D |              |        | Analyzed: 05/06/23 04:39 |         |               |   |
| 1-Bromo-2-Nitrobenzene                    | 629547   | 3.428   | 601474                      | 3.428        | 105    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                         | 929713   | 14.214  | 876625                      | 14.215       | 106    | 50 - 200                 | -0.001  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]               | 341980   | 3.868   | 349289                      | 3.869        | 98     | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl [2C]                    | 678097   | 14.957  | 652984                      | 14.956       | 104    | 50 - 200                 | 0.001   | +/-0.50       |   |
| <b>Secondary Cal Check (SLE0079-SCV6)</b> |          | (Water) | Lab File ID: 05052337ECD7.D |              |        | Analyzed: 05/06/23 05:00 |         |               |   |
| 1-Bromo-2-Nitrobenzene                    | 646456   | 3.429   | 601474                      | 3.428        | 107    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Hexabromobiphenyl                         | 954969   | 14.213  | 876625                      | 14.215       | 109    | 50 - 200                 | -0.002  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]               | 354120   | 3.869   | 349289                      | 3.869        | 101    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                    | 696139   | 14.957  | 652984                      | 14.956       | 107    | 50 - 200                 | 0.001   | +/-0.50       |   |





**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLE0303

Instrument: ECD7

Calibration: GE00022

| Internal Standard                        | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|--|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Initial Cal Check (SLE0303-ICV1 )</b> |          | (Solid) | Lab File ID: 05182302ECD7.D |              |        | Analyzed: 05/18/23 11:32 |         |               |   |
| 1-Bromo-2-Nitrobenzene                   | 605606   | 3.429   | 605606                      | 3.429        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                        | 972955   | 14.213  | 972955                      | 14.213       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]              | 358810   | 3.868   | 358810                      | 3.868        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                   | 634816   | 14.954  | 634816                      | 14.954       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>Initial Cal Check (SLE0303-ICV2 )</b> |          | (Solid) | Lab File ID: 05182303ECD7.D |              |        | Analyzed: 05/18/23 11:53 |         |               |   |
| 1-Bromo-2-Nitrobenzene                   | 579876   | 3.428   | 579876                      | 3.428        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                        | 953949   | 14.213  | 953949                      | 14.213       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]              | 348849   | 3.868   | 348849                      | 3.868        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                   | 626803   | 14.957  | 626803                      | 14.957       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>[BATCHQC] (23A0179-10RE1 )</b>        |          | (Solid) | Lab File ID: 05182309ECD7.D |              |        | Analyzed: 05/18/23 13:58 |         |               |   |
| 1-Bromo-2-Nitrobenzene                   | 576853   | 3.428   | 579876                      | 3.428        | 99     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                        | 709363   | 14.2    | 953949                      | 14.213       | 74     | 50 - 200                 | -0.013  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]              | 345734   | 3.868   | 348849                      | 3.868        | 99     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                   | 509208   | 14.947  | 626803                      | 14.957       | 81     | 50 - 200                 | -0.010  | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Sequence: SLE0480

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Instrument: ECD7  
Calibration: GE00022

| Internal Standard                       | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|---|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Initial Cal Check (SLE0480-ICV1)</b> |          | (Solid) | Lab File ID: 05312309ECD7.D |              |        | Analyzed: 05/31/23 15:11 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 623324   | 3.429   | 623324                      | 3.429        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                       | 1060531  | 14.214  | 1060531                     | 14.214       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 361549   | 3.868   | 361549                      | 3.868        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 637800   | 14.958  | 637800                      | 14.958       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>Initial Cal Check (SLE0480-ICV2)</b> |          | (Solid) | Lab File ID: 05312310ECD7.D |              |        | Analyzed: 05/31/23 15:32 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 639512   | 3.429   | 639512                      | 3.429        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                       | 1123277  | 14.215  | 1123277                     | 14.215       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 382320   | 3.87    | 382320                      | 3.87         | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 670101   | 14.957  | 670101                      | 14.957       | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| <b>Blank (BLE0737-BLK1)</b>             |          | (Solid) | Lab File ID: 05312311ECD7.D |              |        | Analyzed: 05/31/23 15:53 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 643661   | 3.43    | 639512                      | 3.429        | 101    | 50 - 200                 | 0.001   | +/-0.50       |   |
| Hexabromobiphenyl                       | 1188360  | 14.21   | 1123277                     | 14.215       | 106    | 50 - 200                 | -0.005  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 386841   | 3.87    | 382320                      | 3.87         | 101    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 686209   | 14.955  | 670101                      | 14.957       | 102    | 50 - 200                 | -0.002  | +/-0.50       |   |
| <b>LCS (BLE0737-BS1)</b>                |          | (Solid) | Lab File ID: 05312312ECD7.D |              |        | Analyzed: 05/31/23 16:13 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 666282   | 3.429   | 639512                      | 3.429        | 104    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                       | 1199105  | 14.21   | 1123277                     | 14.215       | 107    | 50 - 200                 | -0.005  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 403608   | 3.87    | 382320                      | 3.87         | 106    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 710974   | 14.954  | 670101                      | 14.957       | 106    | 50 - 200                 | -0.003  | +/-0.50       |   |
| <b>LCS Dup (BLE0737-BSD1)</b>           |          | (Solid) | Lab File ID: 05312313ECD7.D |              |        | Analyzed: 05/31/23 16:34 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 695455   | 3.431   | 639512                      | 3.429        | 109    | 50 - 200                 | 0.002   | +/-0.50       |   |
| Hexabromobiphenyl                       | 1260028  | 14.211  | 1123277                     | 14.215       | 112    | 50 - 200                 | -0.004  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 413369   | 3.87    | 382320                      | 3.87         | 108    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 741757   | 14.955  | 670101                      | 14.957       | 111    | 50 - 200                 | -0.002  | +/-0.50       |   |
| <b>Reference (BLE0737-SRM1)</b>         |          | (Solid) | Lab File ID: 05312314ECD7.D |              |        | Analyzed: 05/31/23 16:55 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 673380   | 3.429   | 639512                      | 3.429        | 105    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                       | 831729   | 14.2    | 1123277                     | 14.215       | 74     | 50 - 200                 | -0.015  | +/-0.50       |   |
| 1-Bromo-2-Nitrobenzene [2C]             | 399780   | 3.869   | 382320                      | 3.87         | 105    | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 577393   | 14.948  | 670101                      | 14.957       | 86     | 50 - 200                 | -0.009  | +/-0.50       |   |



**INTERNAL STANDARD AREA AND RT SUMMARY**  
**EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLE0480

Instrument: ECD7

Calibration: GE00022

| Internal Standard                       | Response | RT      | Reference Response          | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|---|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>LDW23-SS1112 (23A0179-10RE2 )</b>    |          | (Solid) | Lab File ID: 05312315ECD7.D |              |        | Analyzed: 05/31/23 17:16 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 587150   | 3.429   | 639512                      | 3.429        | 92     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                       | 449485   | 14.194  | 1123277                     | 14.215       | 40     | 50 - 200                 | -0.021  | +/-0.50       | * |
| 1-Bromo-2-Nitrobenzene [2C]             | 345619   | 3.868   | 382320                      | 3.87         | 90     | 50 - 200                 | -0.002  | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 372845   | 14.943  | 670101                      | 14.957       | 56     | 50 - 200                 | -0.014  | +/-0.50       |   |
| <b>Matrix Spike (BLE0737-MS1 )</b>      |          | (Solid) | Lab File ID: 05312316ECD7.D |              |        | Analyzed: 05/31/23 17:37 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 636559   | 3.429   | 639512                      | 3.429        | 100    | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                       | 430233   | 14.195  | 1123277                     | 14.215       | 38     | 50 - 200                 | -0.020  | +/-0.50       | * |
| 1-Bromo-2-Nitrobenzene [2C]             | 353327   | 3.868   | 382320                      | 3.87         | 92     | 50 - 200                 | -0.002  | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 343951   | 14.944  | 670101                      | 14.957       | 51     | 50 - 200                 | -0.013  | +/-0.50       |   |
| <b>Matrix Spike Dup (BLE0737-MSD1 )</b> |          | (Solid) | Lab File ID: 05312317ECD7.D |              |        | Analyzed: 05/31/23 17:58 |         |               |   |
| 1-Bromo-2-Nitrobenzene                  | 601555   | 3.429   | 639512                      | 3.429        | 94     | 50 - 200                 | 0.000   | +/-0.50       |   |
| Hexabromobiphenyl                       | 429869   | 14.195  | 1123277                     | 14.215       | 38     | 50 - 200                 | -0.020  | +/-0.50       | * |
| 1-Bromo-2-Nitrobenzene [2C]             | 345518   | 3.869   | 382320                      | 3.87         | 90     | 50 - 200                 | -0.001  | +/-0.50       |   |
| Hexabromobiphenyl [2C]                  | 345844   | 14.944  | 670101                      | 14.957       | 52     | 50 - 200                 | -0.013  | +/-0.50       |   |



### DUAL COLUMN CONFIRMATION SUMMARY

Laboratory: Analytical Resources, LLC SDG: 23A0179  
 Client: Anchor OEA, LLC Project: AOC5 MR Phase 1  
 Matrix: Sediment Laboratory ID: 23A0179-01 File ID: 02042319ECD7.D  
 Sampled: 01/10/23 08:24 Prepared: 01/26/23 11:26 Analyzed: 02/04/23 22:14  
 Solids: 58.98 Preparation: EPA 3546 (Microwave) Instrument: ECD7  
 Batch: BLA0558 Sequence: SLB0084  
 GC Column(1): ZB5 GC Column(2): ZB35

| COMPOUND     | COL | RT     | EXP RT   | RT DIFF | AREA    | CONC | RPD |
|--------------|-----|--------|----------|---------|---------|------|-----|
| Aroclor 1248 | * 1 | 8.394  | 8.405    | 0.011   | 39442.5 | 24.6 | 6.3 |
|              | 2   | 8.297  | 8.305    | 0.008   | 22613   | 23.1 |     |
| Aroclor 1254 | 1   | 9.284  | 9.298    | 0.014   | 67149.2 | 35.3 | 11. |
|              | * 2 | 9.435  | 9.447    | 0.012   | 65309   | 39.4 |     |
| Aroclor 1260 | 1   | 11.031 | 11.04533 | 0.0143  | 39480.8 | 23.0 | 6.3 |
|              | * 2 | 11.641 | 11.65333 | 0.0123  | 44794.5 | 24.5 |     |

\* Column used for quantitation





**DUAL COLUMN CONFIRMATION SUMMARY**

Laboratory: Analytical Resources, LLC                                  SDG: 23A0179  
 Client: Anchor QEA, LLC    Project: AOC5 MR Phase 1  
 Matrix: Sediment                                  Laboratory ID: 23A0179-03                                  File ID: 02042321ECD7.D  
 Sampled: 01/10/23 09:04                                  Prepared: 01/26/23 11:26                                  Analyzed: 02/04/23 22:57  
 Solids: 58.58                                  Preparation: EPA 3546 (Microwave)                                  Instrument: ECD7  
 Batch: BLA0558                                  Sequence: SLB0084  
 GC Column(1): ZB5    GC Column(2): ZB35

| COMPOUND     | COL | RT    | EXP RT   | RT DIFF | AREA     | CONC | RPD  |
|--------------|-----|-------|----------|---------|----------|------|------|
| Aroclor 1248 | 1   | 8.394 | 8.405    | 0.011   | 33218.75 | 20.6 | 1.   |
|              | * 2 | 8.296 | 8.305    | 0.009   | 19864.75 | 20.8 |      |
| Aroclor 1254 | 1   | 9.283 | 9.298    | 0.015   | 54192.8  | 28.3 | 15.9 |
|              | * 2 | 9.435 | 9.447    | 0.012   | 53796    | 33.2 |      |
| Aroclor 1260 | 1   | 11.03 | 11.04533 | 0.0153  | 32797.6  | 20.4 | 14.5 |
|              | * 2 | 11.64 | 11.65333 | 0.0133  | 38969.25 | 23.6 |      |

\* Column used for quantitation













## DUAL COLUMN CONFIRMATION SUMMARY

|  |  |                                 |
|--|--|---------------------------------|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0179</u>                      |                                 |
| Client: <u>Anchor QEA, LLC</u>               | Project: <u>AOC5 MR Phase 1</u>          |                                 |
| Matrix: <u>Sediment</u>                      | Laboratory ID: <u>23A0179-08</u>         | File ID: <u>02042326ECD7.D</u>  |
| Sampled: <u>01/10/23 10:56</u>               | Prepared: <u>01/26/23 11:26</u>          | Analyzed: <u>02/05/23 00:42</u> |
| Solids: <u>61.36</u>                         | Preparation: <u>EPA 3546 (Microwave)</u> | Instrument: <u>ECD7</u>         |
| Batch: <u>BLA0558</u>                        | Sequence: <u>SLB0084</u>                 |                                 |
| GC Column(1): <u>ZB5</u>                     | GC Column(2): <u>ZB35</u>                |                                 |

| COMPOUND     | COL | RT     | EXP RT   | RT DIFF | AREA     | CONC | RPD  |
|--------------|-----|--------|----------|---------|----------|------|------|
| Aroclor 1248 | * 1 | 8.394  | 8.405    | 0.011   | 37590.25 | 23.9 | 2.5  |
|              | 2   | 8.296  | 8.305    | 0.009   | 22333.25 | 23.3 |      |
| Aroclor 1254 | 1   | 9.283  | 9.298    | 0.015   | 60817    | 32.3 | 10.3 |
|              | * 2 | 9.435  | 9.447    | 0.012   | 58324.8  | 35.8 |      |
| Aroclor 1260 | 1   | 11.031 | 11.04533 | 0.0143  | 32078    | 20.0 | 7.7  |
|              | * 2 | 11.641 | 11.65333 | 0.0123  | 36838    | 21.6 |      |

\* Column used for quantitation



### DUAL COLUMN CONFIRMATION SUMMARY

Laboratory: Analytical Resources, LLC SDG: 23A0179  
 Client: Anchor OEA, LLC Project: AOC5 MR Phase 1  
 Matrix: Sediment Laboratory ID: 23A0179-09 File ID: 02062310ECD7.D  
 Sampled: 01/10/23 11:08 Prepared: 01/26/23 11:26 Analyzed: 02/06/23 12:42  
 Solids: 53.02 Preparation: EPA 3546 (Microwave) Instrument: ECD7  
 Batch: BLA0558 Sequence: SLB0086  
 GC Column(1): ZB5 GC Column(2): ZB35

| COMPOUND     | COL | RT     | EXP RT   | RT DIFF | AREA     | CONC   | RPD  |
|--------------|-----|--------|----------|---------|----------|--------|------|
| Aroclor 1254 | 1   | 9.298  | 9.298    | 0       | 9199.4   | 17200  | 94.2 |
|              | * 2 | 9.448  | 9.447    | 0.001   | 14826    | 47800  |      |
| Aroclor 1260 | 1   | 11.041 | 11.04533 | 0.00433 | 41224.2  | 92000  | 28.8 |
|              | * 2 | 11.649 | 11.65333 | 0.00433 | 59729.75 | 123000 |      |

\* Column used for quantitation





## DUAL COLUMN CONFIRMATION SUMMARY

|               |                                  |                |                             |             |                       |
|---------------|----------------------------------|----------------|-----------------------------|-------------|-----------------------|
| Laboratory:   | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>              |             |                       |
| Client:       | <u>Anchor QEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u>      |             |                       |
| Matrix:       | <u>Sediment</u>                  | Laboratory ID: | <u>23A0179-12</u>           | File ID:    | <u>02062316ECD7.D</u> |
| Sampled:      | <u>01/10/23 12:48</u>            | Prepared:      | <u>01/26/23 11:26</u>       | Analyzed:   | <u>02/06/23 14:49</u> |
| Solids:       | <u>49.35</u>                     | Preparation:   | <u>EPA 3546 (Microwave)</u> | Instrument: | <u>ECD7</u>           |
| Batch:        | <u>BLA0558</u>                   | Sequence:      | <u>SLB0086</u>              |             |                       |
| GC Column(1): | <u>ZB5</u>                       | GC Column(2):  | <u>ZB35</u>                 |             |                       |

| COMPOUND     | COL | RT     | EXP RT   | RT DIFF | AREA     | CONC | RPD  |
|--------------|-----|--------|----------|---------|----------|------|------|
| Aroclor 1248 | * 1 | 8.395  | 8.405    | 0.01    | 42152.5  | 34.9 | 7.1  |
|              | 2   | 8.298  | 8.305    | 0.007   | 26639.5  | 32.5 |      |
| Aroclor 1254 | 1   | 9.285  | 9.298    | 0.013   | 67390.8  | 39.9 | 28.4 |
|              | * 2 | 9.437  | 9.447    | 0.01    | 73355.6  | 53.1 |      |
| Aroclor 1260 | 1   | 11.031 | 11.04533 | 0.0143  | 44721.2  | 36.7 | 7.3  |
|              | * 2 | 11.642 | 11.65333 | 0.0113  | 57004.25 | 39.5 |      |

\* Column used for quantitation



### DUAL COLUMN CONFIRMATION SUMMARY

Laboratory: Analytical Resources, LLC SDG: 23A0179  
Client: Anchor OEA, LLC Project: AOC5 MR Phase 1  
Matrix: Sediment Laboratory ID: 23A0179-10RE2 File ID: 05312315ECD7.D  
Sampled: 01/10/23 11:28 Prepared: 05/26/23 10:46 Analyzed: 05/31/23 17:16  
Solids: 49.27 Preparation: EPA 3546 (Microwave) Instrument: ECD7  
Batch: BLE0737 Sequence: SLE0480  
GC Column(1): ZB5 GC Column(2): ZB35

| COMPOUND     | COL | RT     | EXP RT   | RT DIFF | AREA     | CONC | RPD  |
|--------------|-----|--------|----------|---------|----------|------|------|
| Aroclor 1248 | 1   | 8.392  | 8.405    | 0.013   | 68834    | 35.4 | 10.7 |
|              | * 2 | 8.248  | 8.305    | 0.057   | 43586.5  | 39.4 |      |
| Aroclor 1254 | 1   | 9.231  | 9.298    | 0.067   | 113405   | 41.9 | 32.6 |
|              | * 2 | 9.388  | 9.447    | 0.059   | 89172.2  | 58.2 |      |
| Aroclor 1260 | 1   | 10.979 | 10.99483 | 0.0158  | 63492.8  | 43.4 | 22.7 |
|              | * 2 | 11.592 | 11.60617 | 0.0142  | 72680.75 | 54.5 |      |

\* Column used for quantitation



## HOLDING TIME SUMMARY

**Analysis: EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

| Sample Name                      | Date Collected    | Date Received     | Date Prepared     | Days to Prep | Max Days to Prep | Date Analyzed     | Days to Analysis | Max Days to Analysis | Q |
|----------------------------------|-------------------|-------------------|-------------------|--------------|------------------|-------------------|------------------|----------------------|---|
| LDW23-SS1277<br>23A0179-01       | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 01/26/23<br>11:26 | 16           | 365              | 02/04/23<br>22:14 | 9                | 40                   |   |
| LDW23-SS1271<br>23A0179-02       | 01/10/23<br>08:43 | 01/10/23<br>17:10 | 01/26/23<br>11:26 | 16           | 365              | 02/04/23<br>22:35 | 9                | 40                   |   |
| LDW23-SS1266<br>23A0179-03       | 01/10/23<br>09:04 | 01/10/23<br>17:10 | 01/26/23<br>11:26 | 16           | 365              | 02/04/23<br>22:57 | 9                | 40                   |   |
| LDW23-SS1248<br>23A0179-04       | 01/10/23<br>09:20 | 01/10/23<br>17:10 | 01/26/23<br>11:26 | 16           | 365              | 02/04/23<br>23:18 | 9                | 40                   |   |
| LDW23-SS1239<br>23A0179-05       | 01/10/23<br>09:35 | 01/10/23<br>17:10 | 01/26/23<br>11:26 | 16           | 365              | 02/04/23<br>23:39 | 10               | 40                   |   |
| LDW23-SS1213<br>23A0179-06       | 01/10/23<br>09:54 | 01/10/23<br>17:10 | 01/26/23<br>11:26 | 16           | 365              | 02/05/23<br>00:00 | 10               | 40                   |   |
| LDW23-SS1200<br>23A0179-07       | 01/10/23<br>10:10 | 01/10/23<br>17:10 | 01/26/23<br>11:26 | 16           | 365              | 02/05/23<br>00:21 | 10               | 40                   |   |
| LDW23-SS1178<br>23A0179-08       | 01/10/23<br>10:56 | 01/10/23<br>17:10 | 01/26/23<br>11:26 | 16           | 365              | 02/05/23<br>00:42 | 10               | 40                   |   |
| LDW23-SS1171<br>23A0179-09       | 01/10/23<br>11:08 | 01/10/23<br>17:10 | 01/26/23<br>11:26 | 16           | 365              | 02/06/23<br>12:42 | 11               | 40                   |   |
| LDW23-SS1112<br>23A0179-10       | 01/10/23<br>11:28 | 01/10/23<br>17:10 | 01/26/23<br>11:26 | 15           | 365              | 02/06/23<br>12:21 | 11               | 40                   |   |
| [BATCHQC]<br>23A0179-10RE1       | 01/10/23<br>11:28 | 01/10/23<br>17:10 | 01/26/23<br>11:26 | 15           | 365              | 05/18/23<br>13:58 | 112              | 40                   | * |
| LDW23-SS1112<br>23A0179-10RE2    | 01/10/23<br>11:28 | 01/10/23<br>17:10 | 05/26/23<br>10:46 | 135          | 365              | 05/31/23<br>17:16 | 5                | 40                   |   |
| LDW23-SS1039<br>23A0179-11       | 01/10/23<br>11:56 | 01/10/23<br>17:10 | 01/26/23<br>11:26 | 15           | 365              | 02/06/23<br>14:28 | 11               | 40                   |   |
| LDW23-SS1007<br>23A0179-12       | 01/10/23<br>12:48 | 01/10/23<br>17:10 | 01/26/23<br>11:26 | 15           | 365              | 02/06/23<br>14:49 | 11               | 40                   |   |
| Matrix Spike<br>BLA0558-MS1      | 01/10/23<br>10:56 | 01/10/23<br>17:10 | 01/26/23<br>11:26 | 16           | 365              | 02/05/23<br>01:03 | 10               | 40                   |   |
| Matrix Spike Dup<br>BLA0558-MSD1 | 01/10/23<br>10:56 | 01/10/23<br>17:10 | 01/26/23<br>11:26 | 16           | 365              | 02/05/23<br>01:24 | 10               | 40                   |   |
| Matrix Spike<br>BLE0737-MS1      | 01/10/23<br>11:28 | 01/10/23<br>17:10 | 05/26/23<br>10:46 | 135          | 365              | 05/31/23<br>17:37 | 5                | 40                   |   |
| Matrix Spike Dup<br>BLE0737-MSD1 | 01/10/23<br>11:28 | 01/10/23<br>17:10 | 05/26/23<br>10:46 | 135          | 365              | 05/31/23<br>17:58 | 5                | 40                   |   |

\* Indicates hold time exceedance.





## METHOD DETECTION AND REPORTING LIMITS

### EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Instrument: ECD7

| Analyte           | MDL | RL  | Units |
|-------------------|-----|-----|-------|
| Aroclor 1016      | 1.6 | 4.0 | ug/kg |
| Aroclor 1016 [2C] | 1.6 | 4.0 | ug/kg |
| Aroclor 1221      | 1.6 | 4.0 | ug/kg |
| Aroclor 1221 [2C] | 1.6 | 4.0 | ug/kg |
| Aroclor 1232      | 1.6 | 4.0 | ug/kg |
| Aroclor 1232 [2C] | 1.6 | 4.0 | ug/kg |
| Aroclor 1242      | 1.6 | 4.0 | ug/kg |
| Aroclor 1242 [2C] | 1.6 | 4.0 | ug/kg |
| Aroclor 1248      | 1.6 | 4.0 | ug/kg |
| Aroclor 1248 [2C] | 1.6 | 4.0 | ug/kg |
| Aroclor 1254      | 1.6 | 4.0 | ug/kg |
| Aroclor 1254 [2C] | 1.6 | 4.0 | ug/kg |
| Aroclor 1260      | 0.6 | 4.0 | ug/kg |
| Aroclor 1260 [2C] | 0.6 | 4.0 | ug/kg |



# CERTIFICATE OF ANALYSIS

**Catalog No:** S-279N  
**Description:** Tetrachloro-m-xylene  
**Lot:** 0052481B-1  
**Solvent:** N/A  
**Hazards:** Refer to SDS for complete safety information

**Date Certified:** Jul 28, 2005  
**Expiration:** Jul 28, 2015  
**Sample Size:** 100 mg  
**Components:** 1  
**Storage Condition:** Ambient (>5 °C)



Signal Word: Warning

Certified Reference Material

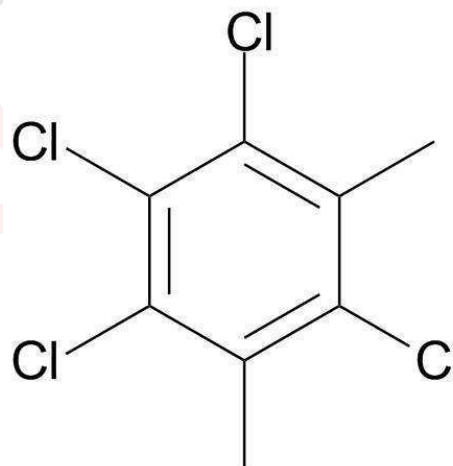


AR-1463

| Component               | CAS #    | Purity %<br>(GC/FID) | Prepared Concentration | Certified Analyte Concentration <sup>1</sup> |
|-------------------------|----------|----------------------|------------------------|--|
| Tetrachloro-meta-xylene | 877-09-8 | 96.0                 | N/A                    | N/A  |

**Identification:**

Molecular formula: C<sub>8</sub>H<sub>6</sub>Cl<sub>4</sub>  
Molecular weight: 243.94



**C000147**

tetrachlorometaxylene

Expires 1/15/2020

Prepared By Joshua Rains 1/15/2014

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

<sup>1</sup> The Uncertainty calculated for this product is ±2.4%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Metrological traceability is established through in-house validated methods.

Purity, if stated, is equal to 100% minus found impurity components. Impurity components have not been identified.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:

Larry Decker, Organic QC Manager



# AccuStandard

125 Market Street  
New Haven, CT 06513  
(203) 786-5290

## CERTIFICATE OF PRODUCT DATA

PRODUCT: C-209N

EXPIRATION: Jul 28, 2015

DESCRIPTION: 2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl

LOT #: 990521LB-AC

SOLVENT: N/A

This product is guaranteed accurate to  $\pm 0.5\%$  of the Certified Analyte concentration through the Expiration Date on the Label.

| Component                                   | CAS #     | Purity %<br>(GC/MS) | Prepared Concentration <sup>1</sup> | Certified Analyte Concentration <sup>2</sup> |
|---|-----------|---------------------|-------------------------------------|--|
| 2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl | 2051-24-3 | 100                 | N/A                                 | N/A  |

2;

**C000148**

decachlorobiphenyl

Expires 1/15/2020

Prepared By Joshua Rains 1/15/2014

*\* I 1768 A*

Certified by: *R. Cooper*

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

A comma (,) is used to separate units of one-thousand or greater.  
A period (.) is used as a decimal place marker.

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/254480  
 2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is  $\pm 0.5\%$  which is the Combined Uncertainty  $U_c(y)$ . It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is  $U$  which is  $U_c(y) * K$  where  $K$  is the coverage factor at the 95% confidence level ( $K=2$ ).  
 3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

This product was manufactured in accordance to quality system requirements of ISO 9001:2000 and ISO 17025

*\* Recertified ~ 4-6-09 (S)*



**Analytical Standard Record**  
**Standard ID: C000148**

Printed: 4/23/2015 11:54:44AM

|                     |                    |              |                          |
|---------------------|--------------------|--------------|--------------------------|
| Description:        | decachlorobiphenyl | Expires:     | 15-Jan-2020              |
| Standard Type:      | Other              | Prepared:    | 15-Jan-2014              |
| Solvent:            | na/a               | Prepared By: | Joshua Rains             |
| Final Volume (mls): | 1                  | Department:  | Organics                 |
| Vials:              | 1                  | Last Edit:   | 27-Feb-2015 13:03 by JGR |
| Vendor:             | Accustandard       | Lot #:       | 9905211b-ac              |
| Vendor Catalog #:   |                    |              |                          |

**Comments**

see i1768a  
SOM calibrations added 06/12/14 sdrd

| Analyte                 | CAS Number | Concentration | Units |
|-------------------------|------------|---------------|-------|
| Decachlorobiphenyl [2C] | 2051-24-3  | 1000000       | ug/mL |
| Decachlorobiphenyl      | 2051-24-3  | 1000000       | ug/mL |
| DCB 1660 [2C]           | 2051-24-3  | 1000000       | ug/mL |
| DCB 1660                | 2051-24-3  | 1000000       | ug/mL |
| DCB [2C]                | 2051-24-3  | 1000000       | ug/mL |
| DCB (A) [2C]            | 2051-24-3  | 1000000       | ug/mL |
| DCB (A)                 | 2051-24-3  | 1000000       | ug/mL |
| DCB                     | 2051-24-3  | 1000000       | ug/mL |

Reviewed By

Date

# Certificate of Analysis



Phenova Certified Reference Materials are sold by Phenomenex.

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Access your MSDS and digital C of A at [www.phenomenex.com/mysupport](http://www.phenomenex.com/mysupport). Re-order at [www.phenomenex.com/standards](http://www.phenomenex.com/standards)

## Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

**Catalog No.:** AL0-101461

**Lot Number:** CL13053

**Description:** Aroclor 1254

**Certification Date:** November 29, 2018

**Storage:** 4 °C

**Expiration Date:** November 30, 2026

**Provided As:** 1 mL in 2 mL Ampoule in Hexane

Andrea Gill, Certified Reference Materials Manager

| Component    | CAS #      | Certified Value<br>µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1254 | 11097-69-1 | 1000                     | ± 0.246%             |

I 09808  
Recd.   
02/24/20



Reference Material Producer  
Certificate No. 2427.02



Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC-MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory  
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IL11110613\_US

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## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101462

**Lot Number:** CL16516

**Description:** Aroclor 1260

**Certification Date:** March 4, 2021

**Storage:** 4 °C

**Expiration Date:** February 28, 2029

**Provided As:** 1 mL in 2 mL Ampoule in Hexane

*Andrea L Gill*

Andrea Gill, Certified Reference Materials Manager

| Component    | CAS #      | Certified Value<br>µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1260 | 11096-82-5 | 1000                     | ± 0.553%             |

J006465



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## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101468

**Lot Number:** CL14017

**Description:** Aroclor 1221

**Certification Date:** August 20, 2019

**Storage:** 4 °C

**Expiration Date:** August 31, 2027

**Provided As:** 1 mL in 2 mL Ampoule in Isooctane

*Andrea Gill*

Andrea Gill, Certified Reference Materials Manager

| Component    | CAS #      | Certified Value<br>µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1221 | 11104-28-2 | 1000                     | ± 0.553%             |

J006466  
Recd of  
06/18/21



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1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31<sup>1</sup> and ISO Guide 35.<sup>2</sup>
2. **Quality Standards:** Phenova is accredited by A2LA to ISO 17034<sup>3</sup> and ISO/IEC 17025<sup>4</sup> as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at [www.phenova.com/documents](http://www.phenova.com/documents).
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98<sup>5</sup> and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$u_{CRM} = k \sqrt{u_M^2 + u_H^2 + u_{LTS}^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

## References:

<sup>1</sup> ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.

<sup>2</sup> ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.

<sup>3</sup> ISO 17034 – General Requirements for the Competence of Reference Material Producers.

<sup>4</sup> ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.

<sup>5</sup> ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



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## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101469

**Lot Number:** CL14914

**Description:** Aroclor 1232

**Certification Date:** January 31, 2020

**Storage:** 4 °C

**Expiration Date:** January 31, 2028

**Provided As:** 1 mL in 2 mL Ampoule in Isooctane



Andrea Gill, Certified Reference Materials Manager

| Component    | CAS #      | Certified Value<br>µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1232 | 11141-16-5 | 1000                     | ± 0.738%             |

J 006467  
reed  
06/18/21



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1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31<sup>1</sup> and ISO Guide 35.<sup>2</sup>
2. **Quality Standards:** Phenova is accredited by A2LA to ISO 17034<sup>3</sup> and ISO/IEC 17025<sup>4</sup> as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at [www.phenova.com/documents](http://www.phenova.com/documents).
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
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$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
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- <sup>3</sup> ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- <sup>4</sup> ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- <sup>5</sup> ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



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## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101470

**Lot Number:** CL14018

**Description:** Aroclor 1242

**Certification Date:** August 20, 2019

**Storage:** 4 °C

**Expiration Date:** August 31, 2027

**Provided As:** 1 mL in 2 mL Ampoule in Isooctane



Andrea Gill, Certified Reference Materials Manager

| Component    | CAS #      | Certified Value<br>µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1242 | 53469-21-9 | 1000                     | ± 0.553%             |

J006468  
feed JR  
06/18/21



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3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
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$$u_{CRM} = k\sqrt{u_M^2 + u_H^2 + u_{LTS}^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

## References:

- <sup>1</sup> ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- <sup>2</sup> ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- <sup>3</sup> ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- <sup>4</sup> ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- <sup>5</sup> ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



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## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101471

**Lot Number:** CL15384

**Description:** Aroclor 1248

**Certification Date:** June 19, 2020

**Storage:** 4 °C

**Expiration Date:** June 30, 2028

**Provided As:** 1 mL in 2 mL Ampoule in Isooctane

*Andrea L Gill*

Andrea Gill, Certified Reference Materials Manager

| Component    | CAS #      | Certified Value<br>µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1248 | 12672-29-6 | 1000                     | ± 0.520%             |

*# J006469  
Reed, JR  
06/18/21*



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- 1. Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31<sup>1</sup> and ISO Guide 35.<sup>2</sup>
- 2. Quality Standards:** Phenova is accredited by A2LA to ISO 17034<sup>3</sup> and ISO/IEC 17025<sup>4</sup> as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
- 3. Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
- 4. Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
- 5. Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at [www.phenova.com/documents](http://www.phenova.com/documents).
- 6. Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
- 7. Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
- 8. Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
- 9. Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98<sup>5</sup> and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).  
$$u_{CRM} = k\sqrt{u_M^2 + u_H^2 + u_{LTS}^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.
- 10. Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
- 11. Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
- 12. Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

## References:

- <sup>1</sup> ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- <sup>2</sup> ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- <sup>3</sup> ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- <sup>4</sup> ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- <sup>5</sup> ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



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## Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

**Catalog No.:** AL0-101474

**Lot Number:** CL11330

**Description:** Aroclor 1262

**Certification Date:** May 15, 2015

**Storage:** 4 °C

**Expiration Date:** April 30, 2023

**Provided As:** 1 mL in 2 mL Ampoule in Isooctane

**Revision Date:** April 2, 2018



Andrea Gill, Certified Reference Materials Manager

| Component    | CAS #      | Certified Value<br>µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1262 | 37324-23-5 | 1000                     | ± 0.516%             |

J 00647H  
Reed JK  
06/18/21



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- 1. Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31<sup>1</sup> and ISO Guide 35.<sup>2</sup>
- 2. Quality Standards:** Phenova is accredited by A2LA to ISO Guide 34<sup>3</sup> and ISO/IEC 17025<sup>4</sup> as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
- 3. Intended Use:** The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.
- 4. Instruction:** Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.
- 5. Hazardous Situation:** The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at [www.phenomenex.com/mysupport](http://www.phenomenex.com/mysupport).
- 6. Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
- 7. Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
- 8. Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
- 9. Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98<sup>5</sup> and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).  
$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.
- 10. Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
- 11. Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.
- 12. Period of Validity:** The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

## References:

- <sup>1</sup> ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
- <sup>2</sup> ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
- <sup>3</sup> ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
- <sup>4</sup> ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
- <sup>5</sup> ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



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## Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

**Catalog No.:** AL0-101475

**Lot Number:** CL11331

**Description:** Aroclor 1268

**Certification Date:** May 15, 2015

**Storage:** 4 °C

**Expiration Date:** April 30, 2023

**Provided As:** 1 mL in 2 mL Ampoule in Isooctane

**Revision Date:** April 2, 2018

Andrea Gill, Certified Reference Materials Manager

| Component    | CAS #      | Certified Value<br>µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1268 | 11100-14-4 | 1000                     | ± 0.516%             |

J006472  
Rec'd. JK  
06/18/21



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1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31<sup>1</sup> and ISO Guide 35.<sup>2</sup>
2. **Quality Standards:** Phenova is accredited by A2LA to ISO Guide 34<sup>3</sup> and ISO/IEC 17025<sup>4</sup> as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.
4. **Instruction:** Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at [www.phenomenex.com/mysupport](http://www.phenomenex.com/mysupport).
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98<sup>5</sup> and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k \cdot \sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.
12. **Period of Validity:** The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

## References:

- <sup>1</sup> ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
- <sup>2</sup> ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
- <sup>3</sup> ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
- <sup>4</sup> ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
- <sup>5</sup> ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



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## Certified Reference Material

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**Catalog No.:** AL0-101467

**Lot Number:** CL16555

**Description:** Aroclor 1016

**Certification Date:** June 22, 2021

**Storage:** 4 °C

**Expiration Date:** February 28, 2029

**Provided As:** 1 mL in 2 mL Ampoule in Isooctane

**J012591**

AROCLOR 1016

Expires 2/28/2029

Prepared By Joshua Rains 11/26/2021



Andrea Gill, Certified Reference Materials Manager

| Component    | CAS #      | Certified Value<br>µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1016 | 12674-11-2 | 1000                     | ± 0.310%             |

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2. Quality Standards: Phenova is accredited by A2LA to ISO 17034<sup>3</sup> and ISO/IEC 17025<sup>4</sup> as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at [www.phenova.com/documents](http://www.phenova.com/documents).
6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98<sup>5</sup> and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

## References:

- <sup>1</sup> ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- <sup>2</sup> ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- <sup>3</sup> ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- <sup>4</sup> ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- <sup>5</sup> ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



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# Certificate of Analysis

## Aroclor 1016 Solution

Product Number: PP-282

Page: 1 of 1

Lot Number: CR-0761

Lot Issue Date: 28-Feb-2017

Expiration Date: 31-Mar-2025

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte      | CAS#        | Analyte Lot | True Value        |
|--------------|-------------|-------------|-------------------|
| Aroclor 1016 | 012674-11-2 | NT01016     | 100.2 ± 0.5 µg/mL |

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

*K1254  
Recd JP  
02/05/17*

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



ISO 9001  
Registered  
TUV USA, Inc.

John Russo  
President

Monica Bourgeois  
Director of QA/RA





# Certificate of Analysis

**Product Name:** Aroclor 1260 Standard

**Product Number:** PP-362-1

**Lot Issue Date:** 20-Jan-2021

**Lot Number:** 0006582048

**Expiration Date:** 28-Feb-2025

**Description:**

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte      | CAS#        | Analyte Lot | Concentration ± Uncertainty |
|--------------|-------------|-------------|-----------------------------|
| Aroclor 1260 | 011096-82-5 | NT01023     | 100.4 ± 0.5 µg/mL           |

**Matrix:** isooctane (2,2,4-trimethylpentane)

K 1255

**Storage Conditions:** Store at Room Temperature (15° to 30°C).

**Traceability:**

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

**Homogeneity:**

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Intended Use:**

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

**Hazards:**

Refer to the Safety Data Sheet on [www.agilent.com](http://www.agilent.com) for information regarding this RM.

**Expiration of Certification:**

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

**Maintenance of Certification:**

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

**Sample lot approver:**

Monica Bourgeois

QMS Representative



ISO 17034 Cert  
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 1

[www.agilent.com/quality/](http://www.agilent.com/quality/)  
CSD-QA-015.1



ISO 17025 Cert  
No. AT-1937



# Certificate of Analysis ISO Guide 34

## Aroclor 1242 Solution

**Product Number:** PP-312

**Page:** 1 of 1

**Lot Number:** CS-6293

**Lot Issue Date:** 04-Jan-2019

**Expiration Date:** 31-Jan-2023

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte      | CAS#        | Analyte Lot | True Value        |
|--------------|-------------|-------------|-------------------|
| Aroclor 1242 | 053469-21-9 | NT01020     | 100.4 ± 0.5 µg/mL |

**Matrix:** isooctane (2,2,4-trimethylpentane)

**Storage:** Store at Room Temperature (15° to 30°C).

K1256

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

  
Monica Bourgeois  
QMS Representative



ISO Guide 34 Cert No.  
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026  
registered ISO 9001 Quality Management System



ISO17025 Cert No.  
AT-1937

ISO 17034



Agilent

Trusted Answers

## Reference Material Certificate

**Product Name:** Aroclor 1248 Standard **Lot Number:** 0006626997  
**Product Number:** PP-342-1 **Lot Issue Date:** 17-Aug-2021  
**Storage Conditions:** Store at Room Temperature (15° to 30°C). **Expiration Date:** 30-Sep-2025

| Component Name | CERTIFIED VALUES |                      |  | CAS#        | Analyte Lot |
|----------------|------------------|----------------------|--|-------------|-------------|
|                | Concentration    | Expanded Uncertainty |  |             |             |
| Aroclor 1248   | 100.3            | ± 0.5 µg/mL          |  | 012672-29-6 | NT01582     |

**Matrix:** isooctane (2,2,4-trimethylpentane)

K1257

**Description:**

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

**Traceability:**

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

**Homogeneity:**

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

**Safety:**

Refer to the Safety Data Sheet on [www.agilent.com](http://www.agilent.com) for information regarding this analytical reference material.

**Intended Use:**

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

**Expiration of Certification:**

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.





# Certificate of Analysis

## Aroclor 1254 Solution

Product Number: PP-352

Page: 1 of 1

Lot Number: CS-2321

Lot Issue Date: 04-May-2018

Expiration Date: 31-May-2026

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte      | CAS#        | Analyte Lot | True Value        |
|--------------|-------------|-------------|-------------------|
| Aroclor 1254 | 011097-69-1 | RM00922     | 100.4 ± 0.5 µg/mL |

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

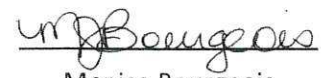
K-1250

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



ISO 9001  
Registered  
TUV USA, Inc.

  
John Russo  
President

  
Monica Bourgeois  
Director of QA/RA



# Certificate of Analysis

**Product Name:** Aroclor 1221 Standard

**Product Number:** PP-292-1

**Lot Issue Date:** 28-Apr-2020

**Lot Number:** 0006535333

**Expiration Date:** 31-May-2024

**Description:**

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte      | CAS#        | Analyte Lot | Concentration ± Uncertainty |
|--------------|-------------|-------------|-----------------------------|
| Aroclor 1221 | 011104-28-2 | RM04278     | 100.2 ± 0.5 µg/mL           |

**Matrix:** isooctane (2,2,4-trimethylpentane)

**Storage Conditions:** Store at Room Temperature (15° to 30°C).

K1259

**Traceability:**

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

**Homogeneity:**

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Intended Use:**

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

**Hazards:**

Refer to the Safety Data Sheet on [www.agilent.com](http://www.agilent.com) for information regarding this RM.

**Expiration of Certification:**

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

**Maintenance of Certification:**

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

**Sample lot approver:**

Monica Bourgeois  
QMS Representative



ISO 17034 Cert No.  
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 1

[www.agilent.com/quality/](http://www.agilent.com/quality/)  
CSD-QA-015.1



ISO 17025 Cert  
No. AT-1937



# Certificate of Analysis ISO 17034

## Aroclor 1262 Standard

Product Number: PP-372-1

Page: 1 of 1

Lot Number: 0006499800

Lot Issue Date: 04-Nov-2019

Expiration Date: 30-Nov-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent Technologies ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte      | CAS#        | Analyte Lot | True Value        |
|--------------|-------------|-------------|-------------------|
| Aroclor 1262 | 037324-23-5 | RM14263     | 100.0 ± 0.5 µg/mL |

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1260

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

Monica Bourgeois  
QMS Representative



ISO 17034 Cert No.  
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026  
registered ISO 9001 Quality Management System



ISO 17025 Cert No.  
AT-1937



# Certificate of Analysis ISO 17034

## Aroclor 1232 Standard

**Product Number:** PP-302-1

**Page:** 1 of 1

**Lot Number:** CF-2197A

**Lot Issue Date:** 05-Jul-2016

**Expiration Date:** 31-Aug-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte      | CAS#        | Analyte Lot | True Value        |
|--------------|-------------|-------------|-------------------|
| Aroclor 1232 | 011141-16-5 | NT01717     | 100.4 ± 0.5 µg/mL |

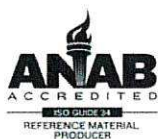
**Matrix:** isooctane (2,2,4-trimethylpentane)

**Storage:** Store at Room Temperature (15° to 30°C).

K1261

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

  
Monica Bourgeois  
QMS Representative



ISO 17034 Cert No.  
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026  
registered ISO 9001 Quality Management System



ISO17025 Cert No.  
AT-1937





# Certificate of Analysis

**Product Name:** Aroclor 1268 Standard

**Product Number:** PP-382-1

**Lot Issue Date:** 09-Feb-2021

**Lot Number:** 0006587800

**Expiration Date:** 31-Mar-2029

**Description:**

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte      | CAS#        | Analyte Lot | Concentration ± Uncertainty |
|--------------|-------------|-------------|-----------------------------|
| Aroclor 1268 | 011100-14-4 | RM00937     | 100.0 ± 0.5 µg/mL           |

**Matrix:** isooctane (2,2,4-trimethylpentane)

**Storage Conditions:** Store at Room Temperature (15° to 30°C).

K1262

**Traceability:**

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

**Homogeneity:**

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Intended Use:**

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

**Hazards:**

Refer to the Safety Data Sheet on [www.agilent.com](http://www.agilent.com) for information regarding this RM.

**Expiration of Certification:**

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

**Maintenance of Certification:**

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

**Sample lot approver:**

Monica Bourgeois  
QMS Representative



ISO 17034 Cert  
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 1

[www.agilent.com/quality/](http://www.agilent.com/quality/)  
CSD-QA-015.1



ISO 17025 Cert  
No. AT-1937

# Recipient Copy

## CHAIN-OF-CUSTODY RECORD

COC No. 15350

Order Number: CB014765

Date Shipped: 4/11/2022

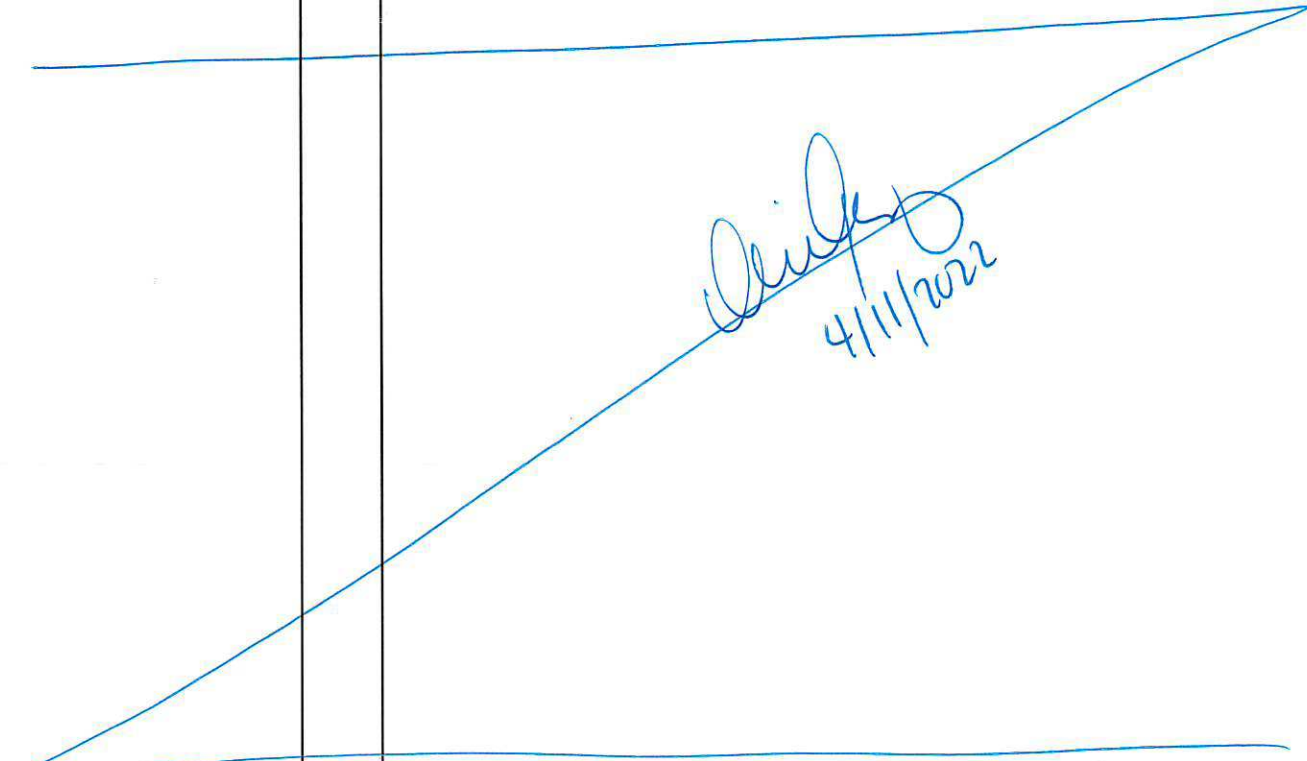
AirBill No(s):

From: QATS LABORATORY  
 2700 CHANDLER AVENUE, BLDG. B  
 LAS VEGAS, NV 89120  
 PHONE: 1-702-895-8712

To: Kelly Bottem  
 Analytical Resources, Inc.  
 4611 S. 134th Place SUITE 100  
 Tukwila WA 98168  
 206-695-6211

519204140444

*K003525 7*  
*K003528*

| Sample ID   | Qty | Description/Remarks     | → Catalogue Number |
|---|-----|-------------------------|--------------------|
| PSRM0148  | 1   | PUGET SOUND SEDIMENT RM | PS-SRM             |
| PSRM0149  | 1   | PUGET SOUND SEDIMENT RM | PS-SRM             |
| PSRM0150  | 1   | PUGET SOUND SEDIMENT RM | PS-SRM             |
| PSRM0151  | 1   | PUGET SOUND SEDIMENT RM | PS-SRM             |
|  |     |                         |                    |
|   |     | BOEING PLANT 2          |                    |

*Signature*  
 4/11/2022

Please use the enclosed Sample Preparation Instructions. If catalogue number(s) are listed at the top of the Sample Preparation Instructions use the Sample Preparation Instructions with catalogue number(s) matching the catalogue number(s) of each of the samples listed above.

|  |   |  |  |
|--|---|--|--|
| Relinquished by:<br>(Signature) <i>[Signature]</i> | Date/Time <i>1400</i><br><i>4/11/2022</i> | Received by:<br>(Signature) <i>[Signature]</i> | Date/Time <i>0955</i><br><i>04/12/22</i> |
| Custody Seal(s):<br>Present/Absent <i>PRESENT</i>  | Remarks:                                  |  |  |
| Relinquished by:<br>(Signature)                    | Date/Time                                 | Received by:<br>(Signature)                    | Date/Time                                |





**PUGET SOUND SEDIMENT REFERENCE MATERIAL  
QATS LABORATORY INSTRUCTIONS FOR  
HRGC/HRMS CDD/CDF/CB CONGENER AND GC/ECD AROCLOR ANALYSIS**

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocols or your contract, disregard these instructions.

**APPLICATION:** For the analysis of CDD/CDF and CB Congener analytes using project-specified HRGC/HRMS methods, and Aroclors using project-specified GC/ECD methods.

**CAUTION:** Read instructions carefully before opening bottles and proceeding with the analyses.

Contains CDD/CDF, CB Congener, and/or Aroclors  
**HAZARDOUS MATERIAL**  
Safety Data Sheets  
Available Upon Request

**(A) SAMPLE DESCRIPTION**

Enclosed is a Puget Sound (Washington State) Sediment Reference Material (SRM) set for chlorinated dibenzo-p-dioxins/chlorinated dibenzofurans (CDD/CDF), and/or chlorinated biphenyl (CB) congener analysis using project-specified high resolution gas chromatography/ high resolution mass spectrometry (HRGC/HRMS) methods. This SRM is also suitable for Aroclors analysis using project-specified gas chromatography/electron capture detection (GC/ECD) methods. This set consists of one (1) or more bottles, each with approximately 30 grams of Puget Sound SRM containing CDD/CDF, CB Congener, and/or Aroclor analytes. Check the chain-of-custody record to determine the number of bottles provided for CDD/CDF, CB Congener, and/or Aroclor analysis. None of the bottles are to be opened until SRM preparation/analysis is to occur.

**CAUTION:** The SRM could contain compounds that are light sensitive and should be protected from light during storage. Store the SRM at  $\leq 6^{\circ}\text{C}$ , preferably at  $< 0^{\circ}\text{C}$ , until SRM preparation and analysis is to occur. Allow the bottle(s) to reach ambient temperature before opening.

**(B) BREAKAGE OR MISSING ITEMS**

Check the contents of the shipment carefully for any broken, leaking, or missing items. Refer to the enclosed chain-of-custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY  
APTIM Federal Services, LLC  
2700 Chandler Avenue - Building C  
Las Vegas, NV 89120



**(C) ANALYSIS REQUIREMENTS**

The SRM is to be analyzed as described in the project-specified methods employed for the analysis of CDD/CDF and/or CB Congener analytes using HRGC/HRMS instrumentation and/or Aroclors using GC/ECD instrumentation. These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the project-specified methods, or your contract, disregard these instructions.

**(D) SAMPLE ANALYSIS**

**General Instructions**

The SRM contains CDD/CDF, CB Congener, and Aroclor analytes which are known or suspected to have severe health effects. Employing appropriate safety precautions, this SRM is to be handled, prepared, and analyzed exactly as you would process samples received from a known or suspected hazardous waste site. The SRM should be handled only by trained and experienced analysts in facilities expressly designed to handle such materials. When calculating the concentrations of analytes, use 0% as the soil moisture content.

Allow the bottle(s) to reach ambient temperature before opening and removing gravimetric amounts for sample preparation. To begin the extraction and analysis procedure, break the seal and open the bottle carefully. Weigh out the appropriate aliquot for extraction and analysis as prescribed in the project-specified methods (typically 10 grams for HRGC/HRMS methods and 30 grams for GC/ECD methods), or in accordance with your contract.

Proceed immediately with the extraction and analysis as described in the project-specified methods or your contract.

**(E) REPORTING**

Report the results for the prepared SRM as received.

Report the analytical results for the SRM to EPA or other appropriate Agency, using the format and other instructions for submission of data packages as specified in your contract.



# Certificate of Analysis



Phenova Certified Reference Materials are sold by Phenomenex.

411 Madrid Ave., Torrance, CA 90501 USA ■ Tel: 310-212-0555 ■ Fax: 310-328-7768 ■ info@phenomenex.com

Access your MSDS and digital C of A at [www.phenomenex.com/mysupport](http://www.phenomenex.com/mysupport). Re-order at [www.phenomenex.com/standards](http://www.phenomenex.com/standards)

## Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

**Catalog No.:** AL0-101467

**Lot Number:** CL12975

**Description:** Aroclor 1016

**Certification Date:** November 19, 2018

**Storage:** 4 °C

**Expiration Date:** October 31, 2026

**Provided As:** 1 mL in 2 mL Ampoule in Isooctane

Andrea Gill, Certified Reference Materials Manager

| Component    | CAS #      | Certified Value<br>µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1016 | 12674-11-2 | 1000                     | ± 0.553%             |

125829



Reference Material Producer  
Certificate No. 2427.02



Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC-MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory  
Certificate No. 2427.03

# Certificate of Analysis



Phenova Certified Reference Materials are sold by Phenomenex.

411 Madrid Ave., Torrance, CA 90501 USA ■ Tel: 310-212-0555 ■ Fax: 310-328-7768 ■ info@phenomenex.com

Access your MSDS and digital C of A at [www.phenomenex.com/mysupport](http://www.phenomenex.com/mysupport). Re-order at [www.phenomenex.com/standards](http://www.phenomenex.com/standards)

1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31<sup>1</sup> and ISO Guide 35.<sup>2</sup>
2. **Quality Standards:** Phenova is accredited by A2LA to ISO Guide 34<sup>3</sup> and ISO/IEC 17025<sup>4</sup> as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.
4. **Instruction:** Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at [www.phenomenex.com/mysupport](http://www.phenomenex.com/mysupport).
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98<sup>5</sup> and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$u_{CRM} = k \sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.
12. **Period of Validity:** The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

## References:

<sup>1</sup> ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.

<sup>2</sup> ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.

<sup>3</sup> ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.

<sup>4</sup> ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.

<sup>5</sup> ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer  
Certificate No. 2427.02



Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory  
Certificate No. 2427.03

IL111063\_US

# Certificate of Analysis

**Produced by Phenova**

6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com  
Access your Safety Data Sheets and digital Certificates at [www.phenova.com/documents](http://www.phenova.com/documents).

## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101462

**Lot Number:** CL18021

**Description:** Aroclor 1260

**Certification Date:** February 14, 2022

**Storage:** 4 °C

**Expiration Date:** February 28, 2030

**Provided As:** 1 mL in 2 mL Ampoule in Hexane

*Andrea L Gill*

Andrea Gill, Certified Reference Materials Manager

| Component    | CAS #      | Certified Value<br>µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1260 | 11096-82-5 | 1000                     | ± 0.553%             |

K005830



Reference Material Producer  
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory  
Certificate No. 2427.03

# Certificate of Analysis



Page 2 of 2

## Produced by Phenova

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Access your Safety Data Sheets and digital Certificates at [www.phenova.com/documents](http://www.phenova.com/documents).

- Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31<sup>1</sup> and ISO Guide 35.<sup>2</sup>
- Quality Standards:** Phenova is accredited by A2LA to ISO 17034<sup>3</sup> and ISO/IEC 17025<sup>4</sup> as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
- Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
- Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
- Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at [www.phenova.com/documents](http://www.phenova.com/documents).
- Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
- Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
- Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
- Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98<sup>5</sup> and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).  
$$u_{CRM} = k\sqrt{u_M^2 + u_H^2 + u_{LTS}^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.
- Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
- Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
- Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

## References:

- <sup>1</sup> ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- <sup>2</sup> ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- <sup>3</sup> ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- <sup>4</sup> ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- <sup>5</sup> ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer  
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material  
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory  
Certificate No. 2427.03



# Recipient Copy

## CHAIN-OF-CUSTODY RECORD

COC No. 15570

Order Number: CB014985

Date Shipped: 12/12/2022

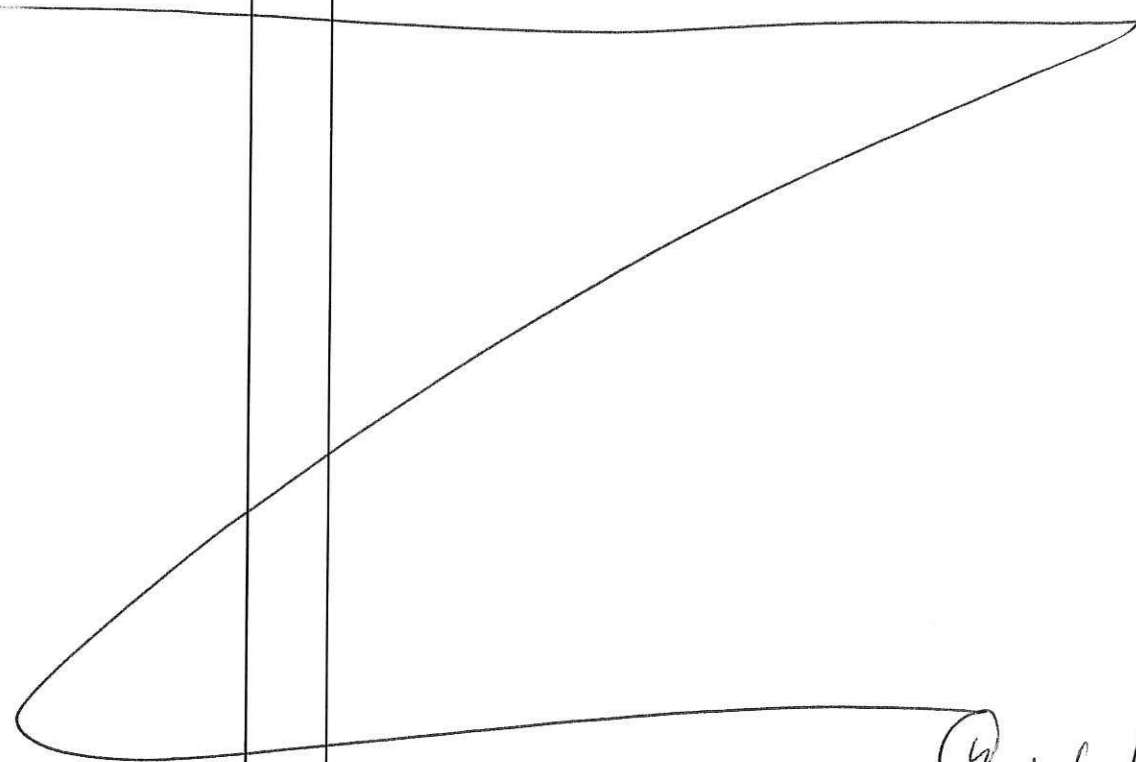
AirBill No(s):

From: QATS LABORATORY  
2700 CHANDLER AVENUE, BLDG. B  
LAS VEGAS, NV 89120  
PHONE: 1-702-895-8712

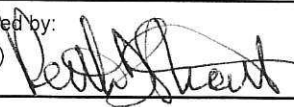

To: SUE DUNNIHOO  
ANALYTICAL RESOURCES INC.  
4611 S. 134TH PLACE SUITE 100  
TUKWILA WA 98168  
250-695-6207

519204142631

K011177  
K011178  
K011179

| Sample ID   | Sigma ID | Qty | Description/Remarks     | → Catalogue Number |
|---|----------|-----|-------------------------|--------------------|
| PSRM0168  | SR0431   | 1   | PUGET SOUND SEDIMENT RM | PS-SRM             |
| PSRM0169  | SR0431   | 1   | PUGET SOUND SEDIMENT RM | PS-SRM             |
| PSRM0171  | SR0431   | 1   | PUGET SOUND SEDIMENT RM | PS-SRM             |
|  |          |     |                         |                    |
| <p>12/12/2022</p>   |          |     |                         |                    |
| <p>PUGET SOUND SRM FOR DUWAMISH AOC4 PROJECT.</p>                                   |          |     |                         |                    |

Please use the enclosed Sample Preparation Instructions. If catalogue number(s) are listed at the top of the Sample Preparation Instructions use the Sample Preparation Instructions with catalogue number(s) matching the catalogue number(s) of each of the samples listed above.

|   |                                |  |                                |
|---|--------------------------------|--|--------------------------------|
| Relinquished by:<br>(Signature)  | Date/Time (1400)<br>12/12/2022 | Received by:<br>(Signature)  | Date/Time<br>12/12/22<br>11:15 |
| Custody Seal(s):<br><u>Present</u> /Absent  | Remarks:                       |  |                                |
| Relinquished by:<br>(Signature)   | Date/Time                      | Received by:<br>(Signature)  | Date/Time                      |

# Certificate of Analysis

**Produced by Phenova**

6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com  
Access your Safety Data Sheets and digital Certificates at [www.phenova.com/documents](http://www.phenova.com/documents).

## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101283

**Lot Number:** CL18942

**Description:** Aroclor 1268 Standard

**Certification Date:** September 7, 2022

**Storage:** 4 °C

**Expiration Date:** August 31, 2030

**Provided As:** 1 mL in 2 mL Ampoule in Hexane



Aaron Dukes, Certified Reference Materials Manager

| Component    | CAS #      | Certified Value<br>µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1268 | 11100-14-4 | 100                      | ± 0.561%             |

# Certificate of Analysis

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Access your Safety Data Sheets and digital Certificates at [www.phenova.com/documents](http://www.phenova.com/documents).

1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31<sup>1</sup> and ISO Guide 35.<sup>2</sup>
2. **Quality Standards:** Phenova is accredited by A2LA to ISO 17034<sup>3</sup> and ISO/IEC 17025<sup>4</sup> as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at [www.phenova.com/documents](http://www.phenova.com/documents).
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98<sup>5</sup> and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

## References:

- <sup>1</sup> ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- <sup>2</sup> ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- <sup>3</sup> ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- <sup>4</sup> ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- <sup>5</sup> ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer  
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material  
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory  
Certificate No. 2427.03

# Certificate of Analysis

**Produced by Phenova**

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Access your Safety Data Sheets and digital Certificates at [www.phenova.com/documents](http://www.phenova.com/documents).

## Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

**Catalog No.:** AL0-101282

**Lot Number:** CL19082

**Description:** Aroclor 1262 Standard

**Certification Date:** October 18, 2022

**Storage:** 4 °C

**Expiration Date:** September 30, 2030

**Provided As:** 1 mL in 2 mL Ampoule in Hexane



Aaron Dukes, Certified Reference Materials Manager

| Component    | CAS #      | Certified Value<br>µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1262 | 37324-23-5 | 100                      | ± 0.665%             |



# Certificate of Analysis

## Produced by Phenova

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Access your Safety Data Sheets and digital Certificates at [www.phenova.com/documents](http://www.phenova.com/documents).

1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31<sup>1</sup> and ISO Guide 35.<sup>2</sup>
2. **Quality Standards:** Phenova is accredited by A2LA to ISO 17034<sup>3</sup> and ISO/IEC 17025<sup>4</sup> as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at [www.phenova.com/documents](http://www.phenova.com/documents).
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98<sup>5</sup> and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

## References:

- <sup>1</sup> ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- <sup>2</sup> ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- <sup>3</sup> ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- <sup>4</sup> ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- <sup>5</sup> ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer  
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material  
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory  
Certificate No. 2427.03



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B**  
Total Metals

|              |
|--------------|
| LDW23-SS1277 |
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Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-01 D      SDG: 23A0179  
 Sampled: 01/10/23 08:24      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-046  
 % Solids: 56.80      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 18:05  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.043 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte  | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|----------|---------------------------|-----------------|------|------|---|
| 7440-47-3 | Chromium | 23.6                      | 20              | 0.44 | 0.84 |   |
| 7439-92-1 | Lead     | 20.3                      | 20              | 0.09 | 0.17 |   |
| 7440-22-4 | Silver   | 0.17                      | 20              | 0.04 | 0.34 | J |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B**  
Total Metals

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| LDW23-SS1271 |
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Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-02 D      SDG: 23A0179  
 Sampled: 01/10/23 08:43      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-066  
 % Solids: 64.44      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 19:47  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.059 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte  | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|----------|---------------------------|-----------------|------|------|---|
| 7440-47-3 | Chromium | 20.1                      | 20              | 0.38 | 0.73 |   |
| 7439-92-1 | Lead     | 13.3                      | 20              | 0.08 | 0.15 |   |
| 7440-22-4 | Silver   | 0.14                      | 20              | 0.03 | 0.29 | J |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B**  
Total Metals

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| LDW23-SS1266 |
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Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-03 D      SDG: 23A0179  
 Sampled: 01/10/23 09:04      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-067  
 % Solids: 55.75      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 19:52  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.031 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte  | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|----------|---------------------------|-----------------|------|------|---|
| 7440-47-3 | Chromium | 23.9                      | 20              | 0.45 | 0.87 |   |
| 7439-92-1 | Lead     | 18.2                      | 20              | 0.09 | 0.17 |   |
| 7440-22-4 | Silver   | 0.19                      | 20              | 0.04 | 0.35 | J |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B**  
Total Metals

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| LDW23-SS1248 |
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Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-04 D      SDG: 23A0179  
 Sampled: 01/10/23 09:20      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-068  
 % Solids: 54.20      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 19:57  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.052 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte  | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|----------|---------------------------|-----------------|------|------|---|
| 7440-47-3 | Chromium | 23.8                      | 20              | 0.46 | 0.88 |   |
| 7439-92-1 | Lead     | 17.7                      | 20              | 0.09 | 0.18 |   |
| 7440-22-4 | Silver   | 0.17                      | 20              | 0.04 | 0.35 | J |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B**  
Total Metals

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| <b>LDW23-SS1239</b> |
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Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-05 D      SDG: 23A0179  
 Sampled: 01/10/23 09:35      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-069  
 % Solids: 65.08      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 20:01  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.041 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte  | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|----------|---------------------------|-----------------|------|------|---|
| 7440-47-3 | Chromium | 14.5                      | 20              | 0.38 | 0.74 |   |
| 7439-92-1 | Lead     | 10.6                      | 20              | 0.08 | 0.15 |   |
| 7440-22-4 | Silver   | 0.10                      | 20              | 0.03 | 0.30 | J |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B**  
Total Metals

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| LDW23-SS1213 |
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Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-06 D      SDG: 23A0179  
 Sampled: 01/10/23 09:54      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-070  
 % Solids: 50.11      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 20:06  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.081 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte  | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|----------|---------------------------|-----------------|------|------|---|
| 7440-47-3 | Chromium | 24.5                      | 20              | 0.48 | 0.92 |   |
| 7439-92-1 | Lead     | 21.6                      | 20              | 0.10 | 0.18 |   |
| 7440-22-4 | Silver   | 0.22                      | 20              | 0.04 | 0.37 | J |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B**  
Total Metals

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| <b>LDW23-SS1200</b> |
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Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-07 D      SDG: 23A0179  
 Sampled: 01/10/23 10:10      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-071  
 % Solids: 67.54      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 20:11  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.008 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte  | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|----------|---------------------------|-----------------|------|------|---|
| 7440-47-3 | Chromium | 14.7                      | 20              | 0.38 | 0.73 |   |
| 7439-92-1 | Lead     | 6.67                      | 20              | 0.08 | 0.15 |   |
| 7440-22-4 | Silver   | 0.08                      | 20              | 0.03 | 0.29 | J |





**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B**  
Total Metals

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| LDW23-SS1178 |
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Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-08 D      SDG: 23A0179  
 Sampled: 01/10/23 10:56      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-072  
 % Solids: 59.76      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 20:16  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.05 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte  | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|----------|---------------------------|-----------------|------|------|---|
| 7440-47-3 | Chromium | 20.8                      | 20              | 0.41 | 0.80 |   |
| 7439-92-1 | Lead     | 14.7                      | 20              | 0.08 | 0.16 |   |
| 7440-22-4 | Silver   | 0.15                      | 20              | 0.04 | 0.32 | J |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B**  
Total Metals

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| LDW23-SS1171 |
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Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-09 D      SDG: 23A0179  
 Sampled: 01/10/23 11:08      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-073  
 % Solids: 50.25      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 20:20  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.062 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte  | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|----------|---------------------------|-----------------|------|------|---|
| 7440-47-3 | Chromium | 24.4                      | 20              | 0.49 | 0.94 |   |
| 7439-92-1 | Lead     | 21.7                      | 20              | 0.10 | 0.19 |   |
| 7440-22-4 | Silver   | 0.25                      | 20              | 0.04 | 0.37 | J |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B**  
Total Metals

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| LDW23-SS1112 |
|--------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-10 D      SDG: 23A0179  
 Sampled: 01/10/23 11:28      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-074  
 % Solids: 45.71      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 20:25  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.005 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte  | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|----------|---------------------------|-----------------|------|------|---|
| 7440-47-3 | Chromium | 26.5                      | 20              | 0.57 | 1.09 |   |
| 7439-92-1 | Lead     | 25.8                      | 20              | 0.11 | 0.22 |   |
| 7440-22-4 | Silver   | 0.27                      | 20              | 0.05 | 0.44 | J |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B**  
Total Metals

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| <b>LDW23-SS1039</b> |
|---------------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-11 D      SDG: 23A0179  
 Sampled: 01/10/23 11:56      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-078  
 % Solids: 46.16      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 20:47  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.063 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte  | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|----------|---------------------------|-----------------|------|------|---|
| 7440-47-3 | Chromium | 26.8                      | 20              | 0.53 | 1.02 |   |
| 7439-92-1 | Lead     | 25.2                      | 20              | 0.11 | 0.20 |   |
| 7440-22-4 | Silver   | 0.27                      | 20              | 0.04 | 0.41 | J |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B**  
Total Metals

|              |
|--------------|
| LDW23-SS1007 |
|--------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-12 D      SDG: 23A0179  
 Sampled: 01/10/23 12:48      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-079  
 % Solids: 46.07      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 20:51  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.013 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte  | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|----------|---------------------------|-----------------|------|------|---|
| 7440-47-3 | Chromium | 26.9                      | 20              | 0.56 | 1.07 |   |
| 7439-92-1 | Lead     | 26.2                      | 20              | 0.11 | 0.21 |   |
| 7440-22-4 | Silver   | 0.27                      | 20              | 0.05 | 0.43 | J |



**PREPARATION BATCH SUMMARY**  
**EPA 6020B**

Laboratory: Analytical Resources, LLC SDG: 23A0179  
Client: Anchor QEA, LLC Project: AOC5 MR Phase 1  
Batch: BLD0055 Batch Matrix: Solid Preparation: SWN EPA 3050B

| SAMPLE NAME  | LAB SAMPLE ID | LAB FILE ID      | DATE PREPARED  | OBSERVATIONS |
|--------------|---------------|------------------|----------------|--------------|
| LDW23-SS1277 | 23A0179-01    | XDT_m2230407-046 | 04/06/23 15:35 |              |
| LDW23-SS1271 | 23A0179-02    | XDT_m2230407-066 | 04/06/23 15:35 |              |
| LDW23-SS1266 | 23A0179-03    | XDT_m2230407-067 | 04/06/23 15:35 |              |
| LDW23-SS1248 | 23A0179-04    | XDT_m2230407-068 | 04/06/23 15:35 |              |
| LDW23-SS1239 | 23A0179-05    | XDT_m2230407-069 | 04/06/23 15:35 |              |
| LDW23-SS1213 | 23A0179-06    | XDT_m2230407-070 | 04/06/23 15:35 |              |
| LDW23-SS1200 | 23A0179-07    | XDT_m2230407-071 | 04/06/23 15:35 |              |
| LDW23-SS1178 | 23A0179-08    | XDT_m2230407-072 | 04/06/23 15:35 |              |
| LDW23-SS1171 | 23A0179-09    | XDT_m2230407-073 | 04/06/23 15:35 |              |
| LDW23-SS1112 | 23A0179-10    | XDT_m2230407-074 | 04/06/23 15:35 |              |
| LDW23-SS1039 | 23A0179-11    | XDT_m2230407-078 | 04/06/23 15:35 |              |
| LDW23-SS1007 | 23A0179-12    | XDT_m2230407-079 | 04/06/23 15:35 |              |
| Blank        | BLD0055-BLK1  | XDT_m2230407-042 | 04/06/23 15:35 |              |
| LCS          | BLD0055-BS1   | XDT_m2230407-043 | 04/06/23 15:35 |              |
| LDW23-SS1277 | BLD0055-DUP1  | XDT_m2230407-047 | 04/06/23 15:35 |              |
| LDW23-SS1277 | BLD0055-MS1   | XDT_m2230407-048 | 04/06/23 15:35 |              |
| LDW23-SS1277 | BLD0055-MSD1  | XDT_m2230407-049 | 04/06/23 15:35 |              |



### Digestion Log

Analyst: AR Date: 04/06/23 Time: 1010-1535 Balance ID: BALLO  
Matrix: SOIL Block ID: 16 Block Temp: 96C Thermometer: 20-4

| ARI Sample ID | Btl # | pH<2 | Prep Code: <u>SWN</u>      |                | Prep Code:                 |                | Comments  |
|---------------|-------|------|----------------------------|----------------|----------------------------|----------------|-----------|
|               |       |      | Initial Wt (g)<br>Vol (mL) | Final Vol (mL) | Initial Wt (g)<br>Vol (mL) | Final Vol (mL) |           |
| 23A158-14     | D     |      | 1.025                      | 50             |                            |                |           |
| ↓ -15         |       |      | 1.050                      |                |                            |                |           |
| ↓ -16         |       |      | 1.063                      |                |                            |                |           |
| 23A179-01     |       |      | 1.043                      |                |                            |                |           |
| ↓ -02         |       |      | 1.059                      |                |                            |                |           |
| ↓ -03         |       |      | 1.031                      |                |                            |                |           |
| ↓ -04         |       |      | 1.052                      |                |                            |                |           |
| ↓ -05         |       |      | 1.041                      |                |                            |                |           |
| ↓ -06         |       |      | 1.081                      |                |                            |                |           |
| ↓ -07         |       |      | 1.008                      |                |                            |                |           |
| ↓ -08         |       |      | 1.056                      |                |                            |                |           |
| ↓ -09         |       |      | 1.062                      |                |                            |                |           |
| ↓ -10         |       |      | 1.005                      |                |                            |                |           |
| ↓ -11         |       |      | 1.063                      |                |                            |                |           |
| ↓ -12         |       |      | 1.013                      |                |                            |                |           |
| 23A180-01     |       |      | 1.031                      |                |                            |                |           |
| ↓ -02         |       |      | 1.076                      |                |                            |                |           |
| ↓ -03         |       |      | 1.024                      |                |                            |                |           |
| ↓ -04         | ✓     |      | 1.095                      |                |                            |                |           |
| BLD55-blk     | ←     |      | —                          |                |                            |                | 23A179-01 |
| ↓ -05         | ←     |      | —                          |                |                            |                | ↓         |
| ↓ -06         | ←     |      | 1.048                      |                |                            |                |           |
| ↓ -MS         | ←     |      | 1.0416                     |                |                            |                |           |
| ↓ -MSD        | ←     |      | 1.043                      | ↓              |                            |                | ↓         |
| —             | —     | —    | —                          | —              | —                          | —              | —         |
| —             | —     | —    | —                          | —              | —                          | —              | —         |

Chemical/Reagent ID:

HNO<sub>3</sub>: L2678 1:1 HNO<sub>3</sub>: L3365 HCl: — H<sub>2</sub>O<sub>2</sub>: K11056

Tube Lot#: 2216117 Boiling Chip Lot#: — (DoD Only)



**Form I**  
**METHOD BLANK DATA SHEET**  
**EPA 6020B**  
Total Metals

|              |
|--------------|
| <b>Blank</b> |
|--------------|

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Batch: BLD0055

Laboratory ID: BLD0055-BLK1

Prepared: 04/06/23 15:35

Matrix: Solid

Preparation: SWN EPA 3050B

Analyzed: 04/07/23 17:46

Sequence: SLD0127

Calibration: GD00024

Instrument: ICPMS2

| CAS NO.   | Analyte     | Concentration (mg/kg wet) | Dilution Factor | MDL  | MRL  | Q |
|-----------|-------------|---------------------------|-----------------|------|------|---|
| 7440-47-3 | Chromium-52 | ND                        | 20              | 0.26 | 0.50 | U |
| 7439-92-1 | Lead-208    | ND                        | 20              | 0.05 | 0.10 | U |
| 7440-22-4 | Silver-107  | ND                        | 20              | 0.02 | 0.20 | U |





**LCS / LCS DUPLICATE RECOVERY**

**EPA 6020B**

Total Metals

|                |                                  |                |                        |
|----------------|----------------------------------|----------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u> |
| Matrix:        | <u>Solid</u>                     | Analyzed:      | <u>04/07/23 17:51</u>  |
| Batch:         | <u>BLD0055</u>                   | Laboratory ID: | <u>BLD0055-BS1</u>     |
| Preparation:   | <u>SWN EPA 3050B</u>             | Sequence Name: | <u>LCS</u>             |
| Initial/Final: | <u>1 g / 50 mL</u>               |                |                        |

| COMPOUND    | SPIKE ADDED<br>(mg/kg wet) | LCS CONCENTRATION<br>(mg/kg wet) | Q | LCS %<br>REC. # | QC LIMITS<br>REC. |
|-------------|----------------------------|----------------------------------|---|-----------------|-------------------|
| Chromium-52 | 25.0                       | 26.0                             |   | 104             | 80 - 120          |
| Lead-208    | 25.0                       | 26.1                             |   | 104             | 80 - 120          |
| Silver-107  | 25.0                       | 27.0                             |   | 108             | 80 - 120          |

\* Indicates values outside of QC limits



**DUPLICATES**

**EPA 6020B**

Total Metals

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: BLD0055-DUP1

Batch: BLD0055

Lab Source ID: 23A0179-01

Preparation: SWN EPA 3050B

Initial/Final: 1.048 g / 50 mL

Source Sample Name: LDW23-SS1277

% Solids: 56.80

| ANALYTE     | CONTROL LIMIT | SAMPLE CONCENTRATION | DUPLICATE CONCENTRATION | RPD % | Q |
|-------------|---------------|----------------------|-------------------------|-------|---|
| Chromium-52 | 20            | 23.6                 | 21.8                    | 7.98  |   |
| Lead-208    | 20            | 20.3                 | 15.9                    | 24.4  | * |
| Silver-107  | 20            | 0.17                 | 0.17                    | 2.46  |   |

\*: Values outside of QC limits

L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/-RL instead of 20% RPD



**MS / MS DUPLICATE RECOVERY**  
**EPA 6020B**  
Total Metals

|                |                                  |                |                        |
|----------------|----------------------------------|----------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u> |
| Matrix:        | <u>Solid</u>                     | Analyzed:      | <u>04/07/23 18:14</u>  |
| Batch:         | <u>BLD0055</u>                   | Laboratory ID: | <u>BLD0055-MS1</u>     |
| Preparation:   | <u>SWN EPA 3050B</u>             | Sequence Name: | <u>Matrix Spike</u>    |
| Initial/Final: | <u>1.046 g / 50 mL</u>           | Source Sample: | <u>LDW23-SS1277</u>    |

| COMPOUND    | SPIKE ADDED (mg/kg dry) | SAMPLE CONCENTRATION (mg/kg dry) | Q | MS CONCENTRATION (mg/kg dry) | Q | MS % REC. # | QC LIMITS REC. |
|-------------|-------------------------|----------------------------------|---|------------------------------|---|-------------|----------------|
| Chromium-52 | 42.1                    | 23.6                             |   | 58.7                         |   | 83.3        | 75 - 125       |
| Lead-208    | 42.1                    | 20.3                             |   | 59.3                         |   | 92.6        | 75 - 125       |
| Silver-107  | 42.1                    | 0.17                             | J | 17.1                         | * | 40.2 *      | 75 - 125       |

\* Values outside of QC limits



**MS / MS DUPLICATE RECOVERY**  
**EPA 6020B**  
Total Metals

|                |                                  |                |                         |
|----------------|----------------------------------|----------------|-------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>          |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u>  |
| Matrix:        | <u>Solid</u>                     | Analyzed:      | <u>04/07/23 18:19</u>   |
| Batch:         | <u>BLD0055</u>                   | Laboratory ID: | <u>BLD0055-MSD1</u>     |
| Preparation:   | <u>SWN EPA 3050B</u>             | Sequence Name: | <u>Matrix Spike Dup</u> |
| Initial/Final: | <u>1.043 g / 50 mL</u>           | Source Sample: | <u>LDW23-SS1277</u>     |

| COMPOUND    | SPIKE ADDED (mg/kg dry) | MSD CONCENTRATION (mg/kg dry) | Q | MSD % REC. # | % RPD # | QC LIMITS |          |
|-------------|-------------------------|-------------------------------|---|--------------|---------|-----------|----------|
|             |                         |                               |   |              |         | RPD       | REC.     |
| Chromium-52 | 42.2                    | 58.3                          |   | 82.3         | 0.591   | 20        | 75 - 125 |
| Lead-208    | 42.2                    | 59.1                          |   | 91.9         | 0.340   | 20        | 75 - 125 |
| Silver-107  | 42.2                    | 20.4                          | * | 47.8 *       | 17.4    | 20        | 75 - 125 |

\* Values outside of QC limits



**POST DIGEST SPIKE SAMPLE RECOVERY**  
**EPA 6020B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: BLD0055-PS1

Batch: BLD0055

Lab Source ID: 23A0179-01

Preparation: SWN EPA 3050B

Initial/Final: 1.043 g / 50 mL

Source Sample Name: LDW23-SS1277

% Solids: 56.80

| Analyte    | Control Limit %R | Spike Sample Result (SSR) (ug/L) | Sample Result (SR) (ug/L) | Spike Added (SA) (ug/L) | %R  |
|------------|------------------|----------------------------------|---------------------------|-------------------------|-----|
| Silver-107 | 80 - 120         | 519                              | 0.17                      | 500.00                  | 103 |

\* Values outside of QC limits



**INITIAL AND CONTINUING  
CALIBRATION CHECK  
EPA 6020B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Control Limit: +/- 10.00%

Sequence: SLD0127

| Lab Sample ID | Analyte     | True   | Found | %R   | Units | Method    |
|---------------|-------------|--------|-------|------|-------|-----------|
| SLD0127-ICV1  | Chromium-52 | 50.000 | 52.1  | 104  | ug/L  | EPA 6020B |
|               | Chromium-53 | 50.000 | 51.8  | 104  | ug/L  | EPA 6020B |
|               | Lead-208    | 50.000 | 50.5  | 101  | ug/L  | EPA 6020B |
|               | Silver-107  | 50.000 | 53.0  | 106  | ug/L  | EPA 6020B |
| SLD0127-CCV1  | Chromium-52 | 50.000 | 50.9  | 102  | ug/L  | EPA 6020B |
|               | Chromium-53 | 50.000 | 51.5  | 103  | ug/L  | EPA 6020B |
|               | Lead-208    | 50.000 | 49.3  | 98.5 | ug/L  | EPA 6020B |
|               | Silver-107  | 50.000 | 50.2  | 100  | ug/L  | EPA 6020B |
| SLD0127-CCV2  | Chromium-52 | 50.000 | 51.0  | 102  | ug/L  | EPA 6020B |
|               | Chromium-53 | 50.000 | 52.2  | 104  | ug/L  | EPA 6020B |
|               | Lead-208    | 50.000 | 48.5  | 96.9 | ug/L  | EPA 6020B |
|               | Silver-107  | 50.000 | 51.6  | 103  | ug/L  | EPA 6020B |
| SLD0127-CCV3  | Chromium-52 | 50.000 | 51.3  | 103  | ug/L  | EPA 6020B |
|               | Chromium-53 | 50.000 | 51.3  | 103  | ug/L  | EPA 6020B |
|               | Lead-208    | 50.000 | 51.7  | 103  | ug/L  | EPA 6020B |
|               | Silver-107  | 50.000 | 51.8  | 104  | ug/L  | EPA 6020B |
| SLD0127-CCV4  | Chromium-52 | 50.000 | 49.9  | 99.8 | ug/L  | EPA 6020B |
|               | Chromium-53 | 50.000 | 51.4  | 103  | ug/L  | EPA 6020B |
|               | Lead-208    | 50.000 | 49.0  | 97.9 | ug/L  | EPA 6020B |
|               | Silver-107  | 50.000 | 52.1  | 104  | ug/L  | EPA 6020B |
| SLD0127-CCV5  | Chromium-52 | 50.000 | 50.2  | 100  | ug/L  | EPA 6020B |
|               | Chromium-53 | 50.000 | 51.8  | 104  | ug/L  | EPA 6020B |
|               | Lead-208    | 50.000 | 49.1  | 98.3 | ug/L  | EPA 6020B |
|               | Silver-107  | 50.000 | 50.7  | 101  | ug/L  | EPA 6020B |
| SLD0127-CCV6  | Chromium-52 | 50.000 | 50.4  | 101  | ug/L  | EPA 6020B |
|               | Chromium-53 | 50.000 | 51.1  | 102  | ug/L  | EPA 6020B |
|               | Lead-208    | 50.000 | 49.1  | 98.2 | ug/L  | EPA 6020B |
|               | Silver-107  | 50.000 | 52.4  | 105  | ug/L  | EPA 6020B |
| SLD0127-CCV7  | Chromium-52 | 50.000 | 51.2  | 102  | ug/L  | EPA 6020B |
|               | Chromium-53 | 50.000 | 51.9  | 104  | ug/L  | EPA 6020B |
|               | Lead-208    | 50.000 | 50.3  | 101  | ug/L  | EPA 6020B |
|               | Silver-107  | 50.000 | 52.0  | 104  | ug/L  | EPA 6020B |
| SLD0127-CCV8  | Chromium-52 | 50.000 | 51.4  | 103  | ug/L  | EPA 6020B |
|               | Chromium-53 | 50.000 | 51.2  | 102  | ug/L  | EPA 6020B |



**INITIAL AND CONTINUING  
CALIBRATION CHECK  
EPA 6020B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Control Limit: +/- 10.00%

Sequence: SLD0127

| Lab Sample ID | Analyte     | True   | Found | %R   | Units | Method    |
|---------------|-------------|--------|-------|------|-------|-----------|
| SLD0127-CCV8  | Lead-208    | 50.000 | 50.3  | 101  | ug/L  | EPA 6020B |
|               | Silver-107  | 50.000 | 50.0  | 100  | ug/L  | EPA 6020B |
| SLD0127-CCV9  | Chromium-52 | 50.000 | 50.3  | 101  | ug/L  | EPA 6020B |
|               | Chromium-53 | 50.000 | 51.6  | 103  | ug/L  | EPA 6020B |
|               | Lead-208    | 50.000 | 49.9  | 99.8 | ug/L  | EPA 6020B |
|               | Silver-107  | 50.000 | 50.4  | 101  | ug/L  | EPA 6020B |
| SLD0127-CCVA  | Chromium-52 | 50.000 | 50.6  | 101  | ug/L  | EPA 6020B |
|               | Chromium-53 | 50.000 | 50.7  | 101  | ug/L  | EPA 6020B |
|               | Lead-208    | 50.000 | 50.5  | 101  | ug/L  | EPA 6020B |
|               | Silver-107  | 50.000 | 50.0  | 100  | ug/L  | EPA 6020B |
| SLD0127-CCVB  | Chromium-52 | 50.000 | 51.4  | 103  | ug/L  | EPA 6020B |
|               | Chromium-53 | 50.000 | 51.7  | 103  | ug/L  | EPA 6020B |
|               | Lead-208    | 50.000 | 50.8  | 102  | ug/L  | EPA 6020B |
|               | Silver-107  | 50.000 | 51.4  | 103  | ug/L  | EPA 6020B |
| SLD0127-CCVC  | Chromium-52 | 50.000 | 50.7  | 101  | ug/L  | EPA 6020B |
|               | Chromium-53 | 50.000 | 51.1  | 102  | ug/L  | EPA 6020B |
|               | Lead-208    | 50.000 | 50.7  | 101  | ug/L  | EPA 6020B |
|               | Silver-107  | 50.000 | 52.2  | 104  | ug/L  | EPA 6020B |
| SLD0127-CCVD  | Chromium-52 | 50.000 | 52.5  | 105  | ug/L  | EPA 6020B |
|               | Chromium-53 | 50.000 | 52.5  | 105  | ug/L  | EPA 6020B |
|               | Lead-208    | 50.000 | 52.6  | 105  | ug/L  | EPA 6020B |
|               | Silver-107  | 50.000 | 51.1  | 102  | ug/L  | EPA 6020B |
| SLD0127-CCVE  | Chromium-52 | 50.000 | 49.9  | 99.7 | ug/L  | EPA 6020B |
|               | Chromium-53 | 50.000 | 51.4  | 103  | ug/L  | EPA 6020B |
|               | Lead-208    | 50.000 | 51.1  | 102  | ug/L  | EPA 6020B |
|               | Silver-107  | 50.000 | 50.9  | 102  | ug/L  | EPA 6020B |
| SLD0127-CCVF  | Chromium-52 | 50.000 | 50.2  | 100  | ug/L  | EPA 6020B |
|               | Chromium-53 | 50.000 | 50.5  | 101  | ug/L  | EPA 6020B |
|               | Lead-208    | 50.000 | 51.0  | 102  | ug/L  | EPA 6020B |
|               | Silver-107  | 50.000 | 50.6  | 101  | ug/L  | EPA 6020B |
| SLD0127-CCVG  | Chromium-52 | 50.000 | 51.2  | 102  | ug/L  | EPA 6020B |
|               | Chromium-53 | 50.000 | 51.6  | 103  | ug/L  | EPA 6020B |
|               | Lead-208    | 50.000 | 51.6  | 103  | ug/L  | EPA 6020B |
|               | Silver-107  | 50.000 | 50.8  | 102  | ug/L  | EPA 6020B |



**INITIAL AND CONTINUING  
CALIBRATION CHECK  
EPA 6020B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Control Limit: +/- 10.00%

Sequence: SLD0127

| Lab Sample ID | Analyte     | True   | Found | %R  | Units | Method    |
|---------------|-------------|--------|-------|-----|-------|-----------|
| SLD0127-CCVH  | Chromium-52 | 50.000 | 51.4  | 103 | ug/L  | EPA 6020B |
|               | Chromium-53 | 50.000 | 51.6  | 103 | ug/L  | EPA 6020B |
|               | Lead-208    | 50.000 | 52.0  | 104 | ug/L  | EPA 6020B |
|               | Silver-107  | 50.000 | 50.7  | 101 | ug/L  | EPA 6020B |
| SLD0127-CCVI  | Chromium-52 | 50.000 | 50.1  | 100 | ug/L  | EPA 6020B |
|               | Chromium-53 | 50.000 | 51.4  | 103 | ug/L  | EPA 6020B |
|               | Lead-208    | 50.000 | 52.3  | 105 | ug/L  | EPA 6020B |
|               | Silver-107  | 50.000 | 50.7  | 101 | ug/L  | EPA 6020B |
| SLD0127-CCVJ  | Chromium-52 | 50.000 | 50.9  | 102 | ug/L  | EPA 6020B |
|               | Chromium-53 | 50.000 | 50.9  | 102 | ug/L  | EPA 6020B |
|               | Lead-208    | 50.000 | 52.5  | 105 | ug/L  | EPA 6020B |
|               | Silver-107  | 50.000 | 51.1  | 102 | ug/L  | EPA 6020B |

\* Values outside of QC limits





**INSTRUMENT BLANKS**  
**EPA 6020B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/07/23 14:35

| Lab Sample ID | Analyte     | Found    | MDL    | MRL   | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-IBL1  | Chromium-52 | -0.00200 | 0.26   | 0.500 | ug/L  |   |
| SLD0127-IBL1  | Chromium-53 | -0.0110  | 0.239  | 0.500 | ug/L  |   |
| SLD0127-IBL1  | Lead-208    | 0.00100  | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-IBL1  | Silver-107  | -0.00200 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-ICB1  | Chromium-52 | -0.0120  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-ICB1  | Chromium-53 | -0.0100  | 0.239  | 0.500 | ug/L  |   |
| SLD0127-ICB1  | Lead-208    | 0.00     | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-ICB1  | Silver-107  | -0.00400 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-CCB1  | Chromium-52 | -0.0140  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-CCB1  | Chromium-53 | -0.0160  | 0.239  | 0.500 | ug/L  |   |
| SLD0127-CCB1  | Lead-208    | 0.00     | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-CCB1  | Silver-107  | -0.00500 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-IBL2  | Chromium-52 | 0.0110   | 0.26   | 0.500 | ug/L  |   |
| SLD0127-IBL2  | Chromium-53 | 0.0350   | 0.239  | 0.500 | ug/L  |   |
| SLD0127-IBL2  | Lead-208    | 0.00200  | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-IBL2  | Silver-107  | -0.00400 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-IBL3  | Chromium-52 | 0.0460   | 0.26   | 0.500 | ug/L  |   |
| SLD0127-IBL3  | Chromium-53 | 0.0800   | 0.239  | 0.500 | ug/L  |   |
| SLD0127-IBL3  | Lead-208    | 0.0620   | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-IBL3  | Silver-107  | 0.0290   | 0.022  | 0.200 | ug/L  |   |
| SLD0127-CCB2  | Chromium-52 | 0.00700  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-CCB2  | Chromium-53 | 0.00900  | 0.239  | 0.500 | ug/L  |   |
| SLD0127-CCB2  | Lead-208    | 0.00     | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-CCB2  | Silver-107  | -0.00900 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-CCB3  | Chromium-52 | -0.00400 | 0.26   | 0.500 | ug/L  |   |
| SLD0127-CCB3  | Chromium-53 | -0.00900 | 0.239  | 0.500 | ug/L  |   |
| SLD0127-CCB3  | Lead-208    | 0.00     | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-CCB3  | Silver-107  | -0.00100 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-IBL4  | Chromium-52 | 0.0370   | 0.26   | 0.500 | ug/L  |   |
| SLD0127-IBL4  | Chromium-53 | 0.0520   | 0.239  | 0.500 | ug/L  |   |
| SLD0127-IBL4  | Lead-208    | -0.00100 | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-IBL4  | Silver-107  | -0.00300 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-CCB4  | Chromium-52 | 0.00700  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-CCB4  | Chromium-53 | 0.0280   | 0.239  | 0.500 | ug/L  |   |
| SLD0127-CCB4  | Lead-208    | 0.00100  | 0.0513 | 0.100 | ug/L  |   |



**INSTRUMENT BLANKS**  
**EPA 6020B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/07/23 17:38

| Lab Sample ID | Analyte     | Found    | MDL    | MRL   | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-CCB4  | Silver-107  | -0.00200 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-IBL5  | Chromium-52 | 0.00400  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-IBL5  | Chromium-53 | 0.0110   | 0.239  | 0.500 | ug/L  |   |
| SLD0127-IBL5  | Lead-208    | 0.0150   | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-IBL5  | Silver-107  | 0.00600  | 0.022  | 0.200 | ug/L  |   |
| SLD0127-CCB5  | Chromium-52 | 0.00800  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-CCB5  | Chromium-53 | -0.00600 | 0.239  | 0.500 | ug/L  |   |
| SLD0127-CCB5  | Lead-208    | 0.00100  | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-CCB5  | Silver-107  | -0.00200 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-IBL6  | Chromium-52 | -0.0310  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-IBL6  | Chromium-53 | -0.0120  | 0.239  | 0.500 | ug/L  |   |
| SLD0127-IBL6  | Lead-208    | 0.00     | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-IBL6  | Silver-107  | -0.00100 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-CCB6  | Chromium-52 | -0.0260  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-CCB6  | Chromium-53 | -0.0250  | 0.239  | 0.500 | ug/L  |   |
| SLD0127-CCB6  | Lead-208    | 0.00     | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-CCB6  | Silver-107  | -0.00100 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-IBL7  | Chromium-52 | -0.0300  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-IBL7  | Chromium-53 | -0.0230  | 0.239  | 0.500 | ug/L  |   |
| SLD0127-IBL7  | Lead-208    | -0.00100 | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-IBL7  | Silver-107  | -0.00400 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-CCB7  | Chromium-52 | 0.00300  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-CCB7  | Chromium-53 | -0.0230  | 0.239  | 0.500 | ug/L  |   |
| SLD0127-CCB7  | Lead-208    | 0.00300  | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-CCB7  | Silver-107  | 0.00200  | 0.022  | 0.200 | ug/L  |   |
| SLD0127-IBL8  | Chromium-52 | 0.00700  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-IBL8  | Chromium-53 | -0.0220  | 0.239  | 0.500 | ug/L  |   |
| SLD0127-IBL8  | Lead-208    | 0.00200  | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-IBL8  | Silver-107  | -0.00400 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-CCB8  | Chromium-52 | -0.0300  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-CCB8  | Chromium-53 | -0.0280  | 0.239  | 0.500 | ug/L  |   |
| SLD0127-CCB8  | Lead-208    | 0.00     | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-CCB8  | Silver-107  | -0.00200 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-IBL9  | Chromium-52 | -0.00400 | 0.26   | 0.500 | ug/L  |   |
| SLD0127-IBL9  | Chromium-53 | -0.0310  | 0.239  | 0.500 | ug/L  |   |
| SLD0127-IBL9  | Lead-208    | -0.00100 | 0.0513 | 0.100 | ug/L  |   |



**INSTRUMENT BLANKS**  
**EPA 6020B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/07/23 22:29

| Lab Sample ID | Analyte     | Found    | MDL    | MRL   | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-IBL9  | Silver-107  | -0.00300 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-CCB9  | Chromium-52 | 0.00100  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-CCB9  | Chromium-53 | -0.0240  | 0.239  | 0.500 | ug/L  |   |
| SLD0127-CCB9  | Lead-208    | 0.00     | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-CCB9  | Silver-107  | -0.00200 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-IBLA  | Chromium-52 | -0.0310  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-IBLA  | Chromium-53 | -0.0320  | 0.239  | 0.500 | ug/L  |   |
| SLD0127-IBLA  | Lead-208    | -0.00100 | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-IBLA  | Silver-107  | -0.00300 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-CCBA  | Chromium-52 | -0.0110  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-CCBA  | Chromium-53 | -0.0350  | 0.239  | 0.500 | ug/L  |   |
| SLD0127-CCBA  | Lead-208    | 0.00     | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-CCBA  | Silver-107  | -0.00100 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-CCBB  | Chromium-52 | -0.0290  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-CCBB  | Chromium-53 | -0.00200 | 0.239  | 0.500 | ug/L  |   |
| SLD0127-CCBB  | Lead-208    | 0.00     | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-CCBB  | Silver-107  | 0.00100  | 0.022  | 0.200 | ug/L  |   |
| SLD0127-IBLC  | Chromium-52 | -0.0240  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-IBLC  | Chromium-53 | 0.00600  | 0.239  | 0.500 | ug/L  |   |
| SLD0127-IBLC  | Lead-208    | -0.00100 | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-IBLC  | Silver-107  | -0.00100 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-CCBC  | Chromium-52 | -0.0440  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-CCBC  | Chromium-53 | 0.00400  | 0.239  | 0.500 | ug/L  |   |
| SLD0127-CCBC  | Lead-208    | 0.00200  | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-CCBC  | Silver-107  | 0.00400  | 0.022  | 0.200 | ug/L  |   |
| SLD0127-IBLD  | Chromium-52 | 0.00500  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-IBLD  | Chromium-53 | 0.0290   | 0.239  | 0.500 | ug/L  |   |
| SLD0127-IBLD  | Lead-208    | 0.00     | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-IBLD  | Silver-107  | 0.0300   | 0.022  | 0.200 | ug/L  |   |
| SLD0127-CCBD  | Chromium-52 | -0.0360  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-CCBD  | Chromium-53 | 0.00     | 0.239  | 0.500 | ug/L  |   |
| SLD0127-CCBD  | Lead-208    | -0.00200 | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-CCBD  | Silver-107  | 0.0360   | 0.022  | 0.200 | ug/L  |   |
| SLD0127-IBLE  | Chromium-52 | 0.0150   | 0.26   | 0.500 | ug/L  |   |
| SLD0127-IBLE  | Chromium-53 | 0.00600  | 0.239  | 0.500 | ug/L  |   |
| SLD0127-IBLE  | Lead-208    | -0.00100 | 0.0513 | 0.100 | ug/L  |   |



**INSTRUMENT BLANKS**  
**EPA 6020B**

Laboratory: Analytical Resources, LLC  
Client: Anchor QEA, LLC  
Instrument ID: ICPMS2  
Sequence: SLD0127

SDG: 23A0179  
Project: AOC5 MR Phase 1  
Calibration: GD00024  
Date Analyzed: 04/08/23 02:48

| Lab Sample ID | Analyte     | Found    | MDL    | MRL   | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-IBLE  | Silver-107  | 0.0160   | 0.022  | 0.200 | ug/L  |   |
| SLD0127-CCBE  | Chromium-52 | -0.00200 | 0.26   | 0.500 | ug/L  |   |
| SLD0127-CCBE  | Chromium-53 | 0.00800  | 0.239  | 0.500 | ug/L  |   |
| SLD0127-CCBE  | Lead-208    | -0.00200 | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-CCBE  | Silver-107  | 0.0140   | 0.022  | 0.200 | ug/L  |   |
| SLD0127-IBLF  | Chromium-52 | -0.0250  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-IBLF  | Chromium-53 | 0.0460   | 0.239  | 0.500 | ug/L  |   |
| SLD0127-IBLF  | Lead-208    | 0.00100  | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-IBLF  | Silver-107  | 0.00200  | 0.022  | 0.200 | ug/L  |   |
| SLD0127-CCBF  | Chromium-52 | -0.0190  | 0.26   | 0.500 | ug/L  |   |
| SLD0127-CCBF  | Chromium-53 | 0.0240   | 0.239  | 0.500 | ug/L  |   |
| SLD0127-CCBF  | Lead-208    | -0.00200 | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-CCBF  | Silver-107  | 0.00500  | 0.022  | 0.200 | ug/L  |   |
| SLD0127-CCBG  | Chromium-52 | -0.00200 | 0.26   | 0.500 | ug/L  |   |
| SLD0127-CCBG  | Chromium-53 | -0.0190  | 0.239  | 0.500 | ug/L  |   |
| SLD0127-CCBG  | Lead-208    | -0.00200 | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-CCBG  | Silver-107  | 0.00100  | 0.022  | 0.200 | ug/L  |   |
| SLD0127-IBLH  | Chromium-52 | 0.0230   | 0.26   | 0.500 | ug/L  |   |
| SLD0127-IBLH  | Chromium-53 | 0.0530   | 0.239  | 0.500 | ug/L  |   |
| SLD0127-IBLH  | Lead-208    | 0.00100  | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-IBLH  | Silver-107  | -0.00300 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-CCBH  | Chromium-52 | 0.0150   | 0.26   | 0.500 | ug/L  |   |
| SLD0127-CCBH  | Chromium-53 | 0.0120   | 0.239  | 0.500 | ug/L  |   |
| SLD0127-CCBH  | Lead-208    | -0.00200 | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-CCBH  | Silver-107  | 0.00     | 0.022  | 0.200 | ug/L  |   |
| SLD0127-IBLI  | Chromium-52 | -0.00100 | 0.26   | 0.500 | ug/L  |   |
| SLD0127-IBLI  | Chromium-53 | -0.0250  | 0.239  | 0.500 | ug/L  |   |
| SLD0127-IBLI  | Lead-208    | 0.00100  | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-IBLI  | Silver-107  | -0.00400 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-CCBI  | Chromium-52 | 0.0200   | 0.26   | 0.500 | ug/L  |   |
| SLD0127-CCBI  | Chromium-53 | -0.0200  | 0.239  | 0.500 | ug/L  |   |
| SLD0127-CCBI  | Lead-208    | 0.00200  | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-CCBI  | Silver-107  | 0.00400  | 0.022  | 0.200 | ug/L  |   |
| SLD0127-IBLJ  | Chromium-52 | -0.00100 | 0.26   | 0.500 | ug/L  |   |
| SLD0127-IBLJ  | Chromium-53 | 0.107    | 0.239  | 0.500 | ug/L  |   |
| SLD0127-IBLJ  | Lead-208    | 0.00200  | 0.0513 | 0.100 | ug/L  |   |



**INSTRUMENT BLANKS**  
**EPA 6020B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/08/23 07:08

| Lab Sample ID | Analyte     | Found    | MDL    | MRL   | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-IBLJ  | Silver-107  | -0.00300 | 0.022  | 0.200 | ug/L  |   |
| SLD0127-CCBJ  | Chromium-52 | -0.00900 | 0.26   | 0.500 | ug/L  |   |
| SLD0127-CCBJ  | Chromium-53 | 0.0590   | 0.239  | 0.500 | ug/L  |   |
| SLD0127-CCBJ  | Lead-208    | -0.00200 | 0.0513 | 0.100 | ug/L  |   |
| SLD0127-CCBJ  | Silver-107  | -0.00300 | 0.022  | 0.200 | ug/L  |   |



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name          | Lab Sample ID | Lab File ID      | Matrix | Analysis Date/Time |
|----------------------|---------------|------------------|--------|--------------------|
| CAL 0                | SLD0127-CAL1  | XDT_m2230407-006 | NA     | 04/07/23 14:00     |
| CAL 1 - LOW CHECK    | SLD0127-CAL2  | XDT_m2230407-007 | NA     | 04/07/23 14:05     |
| CAL 2                | SLD0127-CAL3  | XDT_m2230407-008 | NA     | 04/07/23 14:10     |
| CAL 3                | SLD0127-CAL4  | XDT_m2230407-009 | NA     | 04/07/23 14:15     |
| CAL 4                | SLD0127-CAL5  | XDT_m2230407-010 | NA     | 04/07/23 14:20     |
| CAL 5                | SLD0127-CAL6  | XDT_m2230407-011 | NA     | 04/07/23 14:27     |
| RINSE                | SLD0127-IBL1  | XDT_m2230407-012 | NA     | 04/07/23 14:35     |
| Initial Cal Check    | SLD0127-ICV1  | XDT_m2230407-014 | NA     | 04/07/23 14:43     |
| Initial Cal Blank    | SLD0127-ICB1  | XDT_m2230407-015 | NA     | 04/07/23 14:51     |
| Calibration Check    | SLD0127-CCV1  | XDT_m2230407-016 | NA     | 04/07/23 14:56     |
| Calibration Blank    | SLD0127-CCB1  | XDT_m2230407-017 | NA     | 04/07/23 15:05     |
| Instrument RL Check  | SLD0127-CRL1  | XDT_m2230407-018 | NA     | 04/07/23 15:11     |
| Interference Check A | SLD0127-IFA1  | XDT_m2230407-019 | NA     | 04/07/23 15:19     |
| Interference Check B | SLD0127-IFB1  | XDT_m2230407-020 | NA     | 04/07/23 15:24     |
| LR200                | SLD0127-HCV1  | XDT_m2230407-021 | NA     | 04/07/23 15:28     |
| LR300                | SLD0127-HCV2  | XDT_m2230407-022 | NA     | 04/07/23 15:33     |
| Instrument Blank     | SLD0127-IBL2  | XDT_m2230407-023 | NA     | 04/07/23 15:41     |
| Instrument Blank     | SLD0127-IBL3  | XDT_m2230407-024 | NA     | 04/07/23 15:47     |
| Calibration Check    | SLD0127-CCV2  | XDT_m2230407-025 | NA     | 04/07/23 15:52     |
| Calibration Blank    | SLD0127-CCB2  | XDT_m2230407-026 | NA     | 04/07/23 16:00     |
| Calibration Check    | SLD0127-CCV3  | XDT_m2230407-028 | NA     | 04/07/23 16:14     |
| Calibration Blank    | SLD0127-CCB3  | XDT_m2230407-029 | NA     | 04/07/23 16:21     |
| ZZZZZ                | BLD0180-BLK1  | XDT_m2230407-030 | Water  | 04/07/23 16:27     |
| ZZZZZ                | BLD0180-BS1   | XDT_m2230407-031 | Water  | 04/07/23 16:32     |
| Instrument Blank     | SLD0127-IBL4  | XDT_m2230407-039 | NA     | 04/07/23 17:25     |
| Calibration Check    | SLD0127-CCV4  | XDT_m2230407-040 | NA     | 04/07/23 17:30     |
| Calibration Blank    | SLD0127-CCB4  | XDT_m2230407-041 | NA     | 04/07/23 17:38     |
| Blank                | BLD0055-BLK1  | XDT_m2230407-042 | Solid  | 04/07/23 17:46     |
| LCS                  | BLD0055-BS1   | XDT_m2230407-043 | Solid  | 04/07/23 17:51     |



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name  | Lab Sample ID | Lab File ID      | Matrix | Analysis Date/Time |
|--------------|---------------|------------------|--------|--------------------|
| ZZZZZ        | BLD0123-BLK1  | XDT_m2230407-044 | Solid  | 04/07/23 17:55     |
| ZZZZZ        | BLD0123-BS1   | XDT_m2230407-045 | Solid  | 04/07/23 18:00     |
| LDW23-SS1277 | 23A0179-01    | XDT_m2230407-046 | Solid  | 04/07/23 18:05     |
| LDW23-SS1277 | 23A0179-01    | XDT_m2230407-046 | Solid  | 04/07/23 18:05     |
| LDW23-SS1277 | 23A0179-01    | XDT_m2230407-046 | Solid  | 04/07/23 18:05     |
| LDW23-SS1277 | BLD0055-DUP1  | XDT_m2230407-047 | Solid  | 04/07/23 18:10     |
| LDW23-SS1277 | BLD0055-DUP1  | XDT_m2230407-047 | Solid  | 04/07/23 18:10     |
| LDW23-SS1277 | BLD0055-DUP1  | XDT_m2230407-047 | Solid  | 04/07/23 18:10     |
| LDW23-SS1277 | BLD0055-DUP1  | XDT_m2230407-047 | Solid  | 04/07/23 18:10     |
| LDW23-SS1277 | BLD0055-DUP1  | XDT_m2230407-047 | Solid  | 04/07/23 18:10     |
| LDW23-SS1277 | BLD0055-DUP1  | XDT_m2230407-047 | Solid  | 04/07/23 18:10     |
| LDW23-SS1277 | BLD0055-DUP1  | XDT_m2230407-047 | Solid  | 04/07/23 18:10     |
| LDW23-SS1277 | BLD0055-DUP1  | XDT_m2230407-047 | Solid  | 04/07/23 18:10     |
| LDW23-SS1277 | BLD0055-MS1   | XDT_m2230407-048 | Solid  | 04/07/23 18:14     |
| LDW23-SS1277 | BLD0055-MS1   | XDT_m2230407-048 | Solid  | 04/07/23 18:14     |
| LDW23-SS1277 | BLD0055-MS1   | XDT_m2230407-048 | Solid  | 04/07/23 18:14     |
| LDW23-SS1277 | BLD0055-MS1   | XDT_m2230407-048 | Solid  | 04/07/23 18:14     |
| LDW23-SS1277 | BLD0055-MS1   | XDT_m2230407-048 | Solid  | 04/07/23 18:14     |
| LDW23-SS1277 | BLD0055-MS1   | XDT_m2230407-048 | Solid  | 04/07/23 18:14     |
| LDW23-SS1277 | BLD0055-MS1   | XDT_m2230407-048 | Solid  | 04/07/23 18:14     |
| LDW23-SS1277 | BLD0055-MS1   | XDT_m2230407-048 | Solid  | 04/07/23 18:14     |
| LDW23-SS1277 | BLD0055-MSD1  | XDT_m2230407-049 | Solid  | 04/07/23 18:19     |
| LDW23-SS1277 | BLD0055-MSD1  | XDT_m2230407-049 | Solid  | 04/07/23 18:19     |
| LDW23-SS1277 | BLD0055-MSD1  | XDT_m2230407-049 | Solid  | 04/07/23 18:19     |
| LDW23-SS1277 | BLD0055-MSD1  | XDT_m2230407-049 | Solid  | 04/07/23 18:19     |
| LDW23-SS1277 | BLD0055-MSD1  | XDT_m2230407-049 | Solid  | 04/07/23 18:19     |
| LDW23-SS1277 | BLD0055-MSD1  | XDT_m2230407-049 | Solid  | 04/07/23 18:19     |
| LDW23-SS1277 | BLD0055-MSD1  | XDT_m2230407-049 | Solid  | 04/07/23 18:19     |
| LDW23-SS1277 | BLD0055-PS1   | XDT_m2230407-050 | Solid  | 04/07/23 18:24     |
| LDW23-SS1277 | BLD0055-PS1   | XDT_m2230407-050 | Solid  | 04/07/23 18:24     |
| LDW23-SS1277 | BLD0055-PS1   | XDT_m2230407-050 | Solid  | 04/07/23 18:24     |



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name       | Lab Sample ID | Lab File ID      | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| LDW23-SS1277      | BLD0055-PS1   | XDT_m2230407-050 | Solid  | 04/07/23 18:24     |
| LDW23-SS1277      | BLD0055-PS1   | XDT_m2230407-050 | Solid  | 04/07/23 18:24     |
| LDW23-SS1277      | BLD0055-PS1   | XDT_m2230407-050 | Solid  | 04/07/23 18:24     |
| LDW23-SS1277      | BLD0055-PS1   | XDT_m2230407-050 | Solid  | 04/07/23 18:24     |
| Instrument Blank  | SLD0127-IBL5  | XDT_m2230407-051 | NA     | 04/07/23 18:28     |
| Calibration Check | SLD0127-CCV5  | XDT_m2230407-052 | NA     | 04/07/23 18:33     |
| Calibration Blank | SLD0127-CCB5  | XDT_m2230407-053 | NA     | 04/07/23 18:41     |
| ZZZZZ             | 23A0158-14    | XDT_m2230407-054 | Solid  | 04/07/23 18:48     |
| ZZZZZ             | 23A0158-14    | XDT_m2230407-054 | Solid  | 04/07/23 18:48     |
| ZZZZZ             | 23A0158-14    | XDT_m2230407-054 | Solid  | 04/07/23 18:48     |
| ZZZZZ             | 23A0158-15    | XDT_m2230407-055 | Solid  | 04/07/23 18:52     |
| ZZZZZ             | 23A0158-15    | XDT_m2230407-055 | Solid  | 04/07/23 18:52     |
| ZZZZZ             | 23A0158-15    | XDT_m2230407-055 | Solid  | 04/07/23 18:52     |
| ZZZZZ             | 23A0158-16    | XDT_m2230407-056 | Solid  | 04/07/23 18:57     |
| ZZZZZ             | 23A0158-16    | XDT_m2230407-056 | Solid  | 04/07/23 18:57     |
| ZZZZZ             | 23A0158-16    | XDT_m2230407-056 | Solid  | 04/07/23 18:57     |
| ZZZZZ             | 23A0206-02    | XDT_m2230407-057 | Solid  | 04/07/23 19:02     |
| ZZZZZ             | 23A0206-02    | XDT_m2230407-057 | Solid  | 04/07/23 19:02     |
| ZZZZZ             | 23A0206-02    | XDT_m2230407-057 | Solid  | 04/07/23 19:02     |
| ZZZZZ             | 23A0206-01    | XDT_m2230407-058 | Solid  | 04/07/23 19:07     |
| ZZZZZ             | 23A0206-01    | XDT_m2230407-058 | Solid  | 04/07/23 19:07     |
| ZZZZZ             | 23A0206-01    | XDT_m2230407-058 | Solid  | 04/07/23 19:07     |
| ZZZZZ             | BLD0123-DUP1  | XDT_m2230407-059 | Solid  | 04/07/23 19:11     |
| ZZZZZ             | BLD0123-MS1   | XDT_m2230407-060 | Solid  | 04/07/23 19:16     |
| ZZZZZ             | BLD0123-MSD1  | XDT_m2230407-061 | Solid  | 04/07/23 19:21     |
| Instrument Blank  | SLD0127-IBL6  | XDT_m2230407-063 | NA     | 04/07/23 19:30     |
| Calibration Check | SLD0127-CCV6  | XDT_m2230407-064 | NA     | 04/07/23 19:35     |
| Calibration Blank | SLD0127-CCB6  | XDT_m2230407-065 | NA     | 04/07/23 19:42     |
| LDW23-SS1271      | 23A0179-02    | XDT_m2230407-066 | Solid  | 04/07/23 19:47     |





## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name       | Lab Sample ID | Lab File ID      | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| LDW23-SS1271      | 23A0179-02    | XDT_m2230407-066 | Solid  | 04/07/23 19:47     |
| LDW23-SS1271      | 23A0179-02    | XDT_m2230407-066 | Solid  | 04/07/23 19:47     |
| LDW23-SS1266      | 23A0179-03    | XDT_m2230407-067 | Solid  | 04/07/23 19:52     |
| LDW23-SS1266      | 23A0179-03    | XDT_m2230407-067 | Solid  | 04/07/23 19:52     |
| LDW23-SS1266      | 23A0179-03    | XDT_m2230407-067 | Solid  | 04/07/23 19:52     |
| LDW23-SS1248      | 23A0179-04    | XDT_m2230407-068 | Solid  | 04/07/23 19:57     |
| LDW23-SS1248      | 23A0179-04    | XDT_m2230407-068 | Solid  | 04/07/23 19:57     |
| LDW23-SS1248      | 23A0179-04    | XDT_m2230407-068 | Solid  | 04/07/23 19:57     |
| LDW23-SS1239      | 23A0179-05    | XDT_m2230407-069 | Solid  | 04/07/23 20:01     |
| LDW23-SS1239      | 23A0179-05    | XDT_m2230407-069 | Solid  | 04/07/23 20:01     |
| LDW23-SS1239      | 23A0179-05    | XDT_m2230407-069 | Solid  | 04/07/23 20:01     |
| LDW23-SS1213      | 23A0179-06    | XDT_m2230407-070 | Solid  | 04/07/23 20:06     |
| LDW23-SS1213      | 23A0179-06    | XDT_m2230407-070 | Solid  | 04/07/23 20:06     |
| LDW23-SS1213      | 23A0179-06    | XDT_m2230407-070 | Solid  | 04/07/23 20:06     |
| LDW23-SS1200      | 23A0179-07    | XDT_m2230407-071 | Solid  | 04/07/23 20:11     |
| LDW23-SS1200      | 23A0179-07    | XDT_m2230407-071 | Solid  | 04/07/23 20:11     |
| LDW23-SS1200      | 23A0179-07    | XDT_m2230407-071 | Solid  | 04/07/23 20:11     |
| LDW23-SS1178      | 23A0179-08    | XDT_m2230407-072 | Solid  | 04/07/23 20:16     |
| LDW23-SS1178      | 23A0179-08    | XDT_m2230407-072 | Solid  | 04/07/23 20:16     |
| LDW23-SS1178      | 23A0179-08    | XDT_m2230407-072 | Solid  | 04/07/23 20:16     |
| LDW23-SS1171      | 23A0179-09    | XDT_m2230407-073 | Solid  | 04/07/23 20:20     |
| LDW23-SS1171      | 23A0179-09    | XDT_m2230407-073 | Solid  | 04/07/23 20:20     |
| LDW23-SS1171      | 23A0179-09    | XDT_m2230407-073 | Solid  | 04/07/23 20:20     |
| LDW23-SS1112      | 23A0179-10    | XDT_m2230407-074 | Solid  | 04/07/23 20:25     |
| LDW23-SS1112      | 23A0179-10    | XDT_m2230407-074 | Solid  | 04/07/23 20:25     |
| LDW23-SS1112      | 23A0179-10    | XDT_m2230407-074 | Solid  | 04/07/23 20:25     |
| Instrument Blank  | SLD0127-IBL7  | XDT_m2230407-075 | NA     | 04/07/23 20:30     |
| Calibration Check | SLD0127-CCV7  | XDT_m2230407-076 | NA     | 04/07/23 20:34     |
| Calibration Blank | SLD0127-CCB7  | XDT_m2230407-077 | NA     | 04/07/23 20:42     |



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name       | Lab Sample ID | Lab File ID      | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| LDW23-SS1039      | 23A0179-11    | XDT_m2230407-078 | Solid  | 04/07/23 20:47     |
| LDW23-SS1039      | 23A0179-11    | XDT_m2230407-078 | Solid  | 04/07/23 20:47     |
| LDW23-SS1039      | 23A0179-11    | XDT_m2230407-078 | Solid  | 04/07/23 20:47     |
| LDW23-SS1007      | 23A0179-12    | XDT_m2230407-079 | Solid  | 04/07/23 20:51     |
| LDW23-SS1007      | 23A0179-12    | XDT_m2230407-079 | Solid  | 04/07/23 20:51     |
| LDW23-SS1007      | 23A0179-12    | XDT_m2230407-079 | Solid  | 04/07/23 20:51     |
| ZZZZZ             | 23A0180-01    | XDT_m2230407-080 | Solid  | 04/07/23 20:56     |
| ZZZZZ             | 23A0180-01    | XDT_m2230407-080 | Solid  | 04/07/23 20:56     |
| ZZZZZ             | 23A0180-01    | XDT_m2230407-080 | Solid  | 04/07/23 20:56     |
| ZZZZZ             | 23A0180-02    | XDT_m2230407-081 | Solid  | 04/07/23 21:01     |
| ZZZZZ             | 23A0180-02    | XDT_m2230407-081 | Solid  | 04/07/23 21:01     |
| ZZZZZ             | 23A0180-02    | XDT_m2230407-081 | Solid  | 04/07/23 21:01     |
| ZZZZZ             | 23A0180-03    | XDT_m2230407-082 | Solid  | 04/07/23 21:06     |
| ZZZZZ             | 23A0180-03    | XDT_m2230407-082 | Solid  | 04/07/23 21:06     |
| ZZZZZ             | 23A0180-03    | XDT_m2230407-082 | Solid  | 04/07/23 21:06     |
| ZZZZZ             | 23A0180-04    | XDT_m2230407-083 | Solid  | 04/07/23 21:10     |
| ZZZZZ             | 23A0180-04    | XDT_m2230407-083 | Solid  | 04/07/23 21:10     |
| ZZZZZ             | 23A0180-04    | XDT_m2230407-083 | Solid  | 04/07/23 21:10     |
| ZZZZZ             | 23A0206-03    | XDT_m2230407-084 | Solid  | 04/07/23 21:15     |
| ZZZZZ             | 23A0206-03    | XDT_m2230407-084 | Solid  | 04/07/23 21:15     |
| ZZZZZ             | 23A0206-03    | XDT_m2230407-084 | Solid  | 04/07/23 21:15     |
| ZZZZZ             | 23A0206-04    | XDT_m2230407-085 | Solid  | 04/07/23 21:20     |
| ZZZZZ             | 23A0206-04    | XDT_m2230407-085 | Solid  | 04/07/23 21:20     |
| ZZZZZ             | 23A0206-04    | XDT_m2230407-085 | Solid  | 04/07/23 21:20     |
| ZZZZZ             | 23A0206-05    | XDT_m2230407-086 | Solid  | 04/07/23 21:25     |
| ZZZZZ             | 23A0206-05    | XDT_m2230407-086 | Solid  | 04/07/23 21:25     |
| ZZZZZ             | 23A0206-05    | XDT_m2230407-086 | Solid  | 04/07/23 21:25     |
| Instrument Blank  | SLD0127-IBL8  | XDT_m2230407-087 | NA     | 04/07/23 21:29     |
| Calibration Check | SLD0127-CCV8  | XDT_m2230407-088 | NA     | 04/07/23 21:34     |



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name       | Lab Sample ID | Lab File ID      | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| Calibration Blank | SLD0127-CCB8  | XDT_m2230407-089 | NA     | 04/07/23 21:42     |
| ZZZZZ             | 23A0206-06    | XDT_m2230407-090 | Solid  | 04/07/23 21:46     |
| ZZZZZ             | 23A0206-06    | XDT_m2230407-090 | Solid  | 04/07/23 21:46     |
| ZZZZZ             | 23A0206-06    | XDT_m2230407-090 | Solid  | 04/07/23 21:46     |
| ZZZZZ             | 23A0206-07    | XDT_m2230407-091 | Solid  | 04/07/23 21:51     |
| ZZZZZ             | 23A0206-07    | XDT_m2230407-091 | Solid  | 04/07/23 21:51     |
| ZZZZZ             | 23A0206-07    | XDT_m2230407-091 | Solid  | 04/07/23 21:51     |
| ZZZZZ             | 23A0206-08    | XDT_m2230407-092 | Solid  | 04/07/23 21:56     |
| ZZZZZ             | 23A0206-08    | XDT_m2230407-092 | Solid  | 04/07/23 21:56     |
| ZZZZZ             | 23A0206-08    | XDT_m2230407-092 | Solid  | 04/07/23 21:56     |
| ZZZZZ             | 23A0206-09    | XDT_m2230407-093 | Solid  | 04/07/23 22:00     |
| ZZZZZ             | 23A0206-09    | XDT_m2230407-093 | Solid  | 04/07/23 22:00     |
| ZZZZZ             | 23A0206-09    | XDT_m2230407-093 | Solid  | 04/07/23 22:00     |
| ZZZZZ             | 23A0206-10    | XDT_m2230407-094 | Solid  | 04/07/23 22:05     |
| ZZZZZ             | 23A0206-10    | XDT_m2230407-094 | Solid  | 04/07/23 22:05     |
| ZZZZZ             | 23A0206-10    | XDT_m2230407-094 | Solid  | 04/07/23 22:05     |
| ZZZZZ             | 23A0206-11    | XDT_m2230407-095 | Solid  | 04/07/23 22:10     |
| ZZZZZ             | 23A0206-11    | XDT_m2230407-095 | Solid  | 04/07/23 22:10     |
| ZZZZZ             | 23A0206-11    | XDT_m2230407-095 | Solid  | 04/07/23 22:10     |
| ZZZZZ             | 23A0206-12    | XDT_m2230407-096 | Solid  | 04/07/23 22:15     |
| ZZZZZ             | 23A0206-12    | XDT_m2230407-096 | Solid  | 04/07/23 22:15     |
| ZZZZZ             | 23A0206-12    | XDT_m2230407-096 | Solid  | 04/07/23 22:15     |
| ZZZZZ             | 23A0206-13    | XDT_m2230407-097 | Solid  | 04/07/23 22:19     |
| ZZZZZ             | 23A0206-13    | XDT_m2230407-097 | Solid  | 04/07/23 22:19     |
| ZZZZZ             | 23A0206-13    | XDT_m2230407-097 | Solid  | 04/07/23 22:19     |
| ZZZZZ             | 23A0206-14    | XDT_m2230407-098 | Solid  | 04/07/23 22:24     |
| ZZZZZ             | 23A0206-14    | XDT_m2230407-098 | Solid  | 04/07/23 22:24     |
| ZZZZZ             | 23A0206-14    | XDT_m2230407-098 | Solid  | 04/07/23 22:24     |
| Instrument Blank  | SLD0127-IBL9  | XDT_m2230407-099 | NA     | 04/07/23 22:29     |



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name       | Lab Sample ID | Lab File ID      | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| Calibration Check | SLD0127-CCV9  | XDT_m2230407-100 | NA     | 04/07/23 22:34     |
| Calibration Blank | SLD0127-CCB9  | XDT_m2230407-101 | NA     | 04/07/23 22:41     |
| ZZZZZ             | 23A0158-05    | XDT_m2230407-102 | Solid  | 04/07/23 22:46     |
| ZZZZZ             | 23A0158-06    | XDT_m2230407-103 | Solid  | 04/07/23 22:51     |
| ZZZZZ             | 23A0158-07    | XDT_m2230407-104 | Solid  | 04/07/23 22:55     |
| ZZZZZ             | 23A0158-10    | XDT_m2230407-105 | Solid  | 04/07/23 23:00     |
| ZZZZZ             | 23A0157-01    | XDT_m2230407-106 | Solid  | 04/07/23 23:05     |
| ZZZZZ             | BLD0030-DUP2  | XDT_m2230407-107 | Solid  | 04/07/23 23:09     |
| ZZZZZ             | BLD0030-MS2   | XDT_m2230407-108 | Solid  | 04/07/23 23:14     |
| ZZZZZ             | BLD0030-MSD2  | XDT_m2230407-109 | Solid  | 04/07/23 23:19     |
| Instrument Blank  | SLD0127-IBLA  | XDT_m2230407-111 | NA     | 04/07/23 23:28     |
| Calibration Check | SLD0127-CCVA  | XDT_m2230407-112 | NA     | 04/07/23 23:33     |
| Calibration Blank | SLD0127-CCBA  | XDT_m2230407-113 | NA     | 04/07/23 23:41     |
| Calibration Check | SLD0127-CCVB  | XDT_m2230407-115 | NA     | 04/07/23 23:50     |
| Calibration Blank | SLD0127-CCBB  | XDT_m2230407-116 | NA     | 04/07/23 23:58     |
| ZZZZZ             | 23A0157-06    | XDT_m2230407-119 | Solid  | 04/08/23 00:12     |
| ZZZZZ             | 23A0157-07    | XDT_m2230407-120 | Solid  | 04/08/23 00:17     |
| ZZZZZ             | 23A0157-08    | XDT_m2230407-121 | Solid  | 04/08/23 00:21     |
| ZZZZZ             | 23A0157-10    | XDT_m2230407-122 | Solid  | 04/08/23 00:26     |
| ZZZZZ             | 23A0157-12    | XDT_m2230407-123 | Solid  | 04/08/23 00:31     |
| ZZZZZ             | 23A0157-13    | XDT_m2230407-124 | Solid  | 04/08/23 00:35     |
| Instrument Blank  | SLD0127-IBLC  | XDT_m2230407-126 | NA     | 04/08/23 00:45     |
| Calibration Check | SLD0127-CCVC  | XDT_m2230407-127 | NA     | 04/08/23 00:50     |
| Calibration Blank | SLD0127-CCBC  | XDT_m2230407-128 | NA     | 04/08/23 00:57     |
| Instrument Blank  | SLD0127-IBLD  | XDT_m2230407-138 | NA     | 04/08/23 01:46     |
| Calibration Check | SLD0127-CCVD  | XDT_m2230407-139 | NA     | 04/08/23 01:50     |
| Calibration Blank | SLD0127-CCBD  | XDT_m2230407-140 | NA     | 04/08/23 01:58     |
| Instrument Blank  | SLD0127-IBLE  | XDT_m2230407-150 | NA     | 04/08/23 02:48     |
| Calibration Check | SLD0127-CCVE  | XDT_m2230407-151 | NA     | 04/08/23 02:53     |



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name       | Lab Sample ID | Lab File ID      | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| Calibration Blank | SLD0127-CCBE  | XDT_m2230407-152 | NA     | 04/08/23 03:00     |
| Instrument Blank  | SLD0127-IBLF  | XDT_m2230407-162 | NA     | 04/08/23 03:48     |
| Calibration Check | SLD0127-CCVF  | XDT_m2230407-163 | NA     | 04/08/23 03:53     |
| Calibration Blank | SLD0127-CCBF  | XDT_m2230407-164 | NA     | 04/08/23 04:00     |
| Calibration Check | SLD0127-CCVG  | XDT_m2230407-166 | NA     | 04/08/23 04:10     |
| Calibration Blank | SLD0127-CCBG  | XDT_m2230407-167 | NA     | 04/08/23 04:17     |
| Instrument Blank  | SLD0127-IBLH  | XDT_m2230407-177 | NA     | 04/08/23 05:05     |
| Calibration Check | SLD0127-CCVH  | XDT_m2230407-178 | NA     | 04/08/23 05:10     |
| Calibration Blank | SLD0127-CCBH  | XDT_m2230407-179 | NA     | 04/08/23 05:18     |
| Instrument Blank  | SLD0127-IBLI  | XDT_m2230407-189 | NA     | 04/08/23 06:05     |
| Calibration Check | SLD0127-CCVI  | XDT_m2230407-190 | NA     | 04/08/23 06:10     |
| Calibration Blank | SLD0127-CCBI  | XDT_m2230407-191 | NA     | 04/08/23 06:17     |
| Instrument Blank  | SLD0127-IBLJ  | XDT_m2230407-201 | NA     | 04/08/23 07:08     |
| Calibration Check | SLD0127-CCVJ  | XDT_m2230407-202 | NA     | 04/08/23 07:13     |
| Calibration Blank | SLD0127-CCBJ  | XDT_m2230407-203 | NA     | 04/08/23 07:20     |



**ICP INTERFERENCE CHECK SAMPLE**  
**EPA 6020B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Standard ID: L003578

| Lab Sample ID | Analyte     | True | Found  | %R | Units |
|---------------|-------------|------|--------|----|-------|
| SLD0127-IFA1  | Chromium-52 | 0    | 0.7960 |    | ug/L  |
|               | Chromium-53 | 0    | 3.9970 |    | ug/L  |
|               | Lead-208    | 0    | 0.0360 |    | ug/L  |
|               | Silver-107  | 0    | 0.0090 |    | ug/L  |

\* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.



**ICP INTERFERENCE CHECK SAMPLE**  
**EPA 6020B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Standard ID: L003578

| Lab Sample ID | Analyte     | True   | Found  | %R   | Units |
|---------------|-------------|--------|--------|------|-------|
| SLD0127-IFB1  | Chromium-52 | 20.000 | 20.588 | 103  | ug/L  |
|               | Chromium-53 | 20.000 | 24.112 | 121  | ug/L  |
|               | Lead-208    | 0      | 0.0270 |      | ug/L  |
|               | Silver-107  | 20.000 | 19.253 | 96.3 | ug/L  |

\* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.



**DETECTION LEVEL STANDARD**  
**EPA 6020B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Lab Sample ID: SLD0127-CRL1

| Analyte     | True    | Found | %R   | Units | QC Limits |
|-------------|---------|-------|------|-------|-----------|
| Chromium-52 | 0.50000 | 0.544 | 109  | ug/L  | 50 - 150  |
| Chromium-53 | 0.50000 | 0.527 | 105  | ug/L  | 50 - 150  |
| Lead-208    | 0.10000 | 0.109 | 109  | ug/L  | 50 - 150  |
| Silver-107  | 0.20000 | 0.198 | 99.0 | ug/L  | 50 - 150  |

\* Values outside of QC limits





**HIGH-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 6020B**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GD00024

**Laboratory ID:** SLD0127-HCV1

**Sequence:** SLD0127

**Standard ID:** L003671

| <b>ANALYTE</b> | <b>EXPECTED<br/>(ug/L)</b> | <b>FOUND<br/>(ug/L)</b> | <b>% DRIFT</b> | <b>QC LIMIT</b> |
|----------------|----------------------------|-------------------------|----------------|-----------------|
| Chromium-52    | 200.00                     | 203                     | 1.5            | 10.00           |
| Chromium-53    | 200.00                     | 202                     | 1.1            | 10.00           |
| Lead-208       | 200.00                     | 197                     | -1.6           | 10.00           |
| Silver-107     | 200.00                     | 201                     | 0.6            | 10.00           |

\* Values outside of QC limits



## HIGH-CONCENTRATION CALIBRATION VERIFICATION

### EPA 6020B

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GD00024

**Laboratory ID:** SLD0127-HCV2

**Sequence:** SLD0127

**Standard ID:** L003672

| ANALYTE     | EXPECTED<br>(ug/L) | FOUND<br>(ug/L) | % DRIFT | QC LIMIT |
|-------------|--------------------|-----------------|---------|----------|
| Chromium-52 | 300.00             | 300             | -0.2    | 10.00    |
| Chromium-53 | 300.00             | 305             | 1.5     | 10.00    |
| Lead-208    | 300.00             | 297             | -1.2    | 10.00    |
| Silver-107  | 300.00             | 304             | 1.3     | 10.00    |

\* Values outside of QC limits



## HOLDING TIME SUMMARY

**Analysis: EPA 6020B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

| Sample Name                      | Date Collected    | Date Received     | Date Prepared     | Days to Prep | Max Days to Prep | Date Analyzed     | Days to Analysis | Max Days to Analysis | Q |
|----------------------------------|-------------------|-------------------|-------------------|--------------|------------------|-------------------|------------------|----------------------|---|
| LDW23-SS1277<br>23A0179-01       | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>18:05 | 87               | 180                  |   |
| LDW23-SS1271<br>23A0179-02       | 01/10/23<br>08:43 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>19:47 | 87               | 180                  |   |
| LDW23-SS1266<br>23A0179-03       | 01/10/23<br>09:04 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>19:52 | 87               | 180                  |   |
| LDW23-SS1248<br>23A0179-04       | 01/10/23<br>09:20 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>19:57 | 87               | 180                  |   |
| LDW23-SS1239<br>23A0179-05       | 01/10/23<br>09:35 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>20:01 | 87               | 180                  |   |
| LDW23-SS1213<br>23A0179-06       | 01/10/23<br>09:54 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>20:06 | 87               | 180                  |   |
| LDW23-SS1200<br>23A0179-07       | 01/10/23<br>10:10 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>20:11 | 87               | 180                  |   |
| LDW23-SS1178<br>23A0179-08       | 01/10/23<br>10:56 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>20:16 | 87               | 180                  |   |
| LDW23-SS1171<br>23A0179-09       | 01/10/23<br>11:08 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>20:20 | 87               | 180                  |   |
| LDW23-SS1112<br>23A0179-10       | 01/10/23<br>11:28 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>20:25 | 87               | 180                  |   |
| LDW23-SS1039<br>23A0179-11       | 01/10/23<br>11:56 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>20:47 | 87               | 180                  |   |
| LDW23-SS1007<br>23A0179-12       | 01/10/23<br>12:48 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>20:51 | 87               | 180                  |   |
| Duplicate<br>BLD0055-DUP1        | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>18:10 | 87               | 180                  |   |
| Matrix Spike<br>BLD0055-MS1      | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>18:14 | 87               | 180                  |   |
| Matrix Spike Dup<br>BLD0055-MSD1 | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>18:19 | 87               | 180                  |   |
| Post Spike<br>BLD0055-PS1        | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>18:24 | 87               | 180                  |   |

\* Indicates hold time exceedance.



**METHOD DETECTION  
AND REPORTING LIMITS**

**EPA 6020B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Instrument: ICPMS2

| <b>Analyte</b> | <b>MDL</b> | <b>RL</b> | <b>Units</b> |
|----------------|------------|-----------|--------------|
| Chromium-52    | 0.26       | 0.50      | mg/kg        |
| Chromium-53    | 0.24       | 0.50      | mg/kg        |
| Lead-208       | 0.05       | 0.10      | mg/kg        |
| Silver-107     | 0.02       | 0.20      | mg/kg        |

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
 Catalog Number: CGCU10  
 Lot Number: P2-CU682108  
 Matrix: 3% (v/v) HNO<sub>3</sub>  
 Value / Analyte(s): 10 000 µg/mL ea:  
                                   Copper  
 Starting Material: Cu Metal  
 Starting Material Lot#: 2095  
 Starting Material Purity: 99.9996%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10013 ± 30 µg/mL  
**Density:** 1.032 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |   |
|------------------------|---|
| <b>Assay Method #1</b> | <b>9977 ± 50 µg/mL</b><br>ICP Assay NIST SRM 3114 Lot Number: 121207    |
| <b>Assay Method #2</b> | <b>10024 ± 26 µg/mL</b><br>EDTA NIST SRM 928 Lot Number: 928            |
| <b>Assay Method #3</b> | <b>10007 ± 46 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.007542 | M Eu < 0.000942 | O Na < 0.001434 | M Se < 0.016971 | M Zn < 0.005657 |
| O Al < 0.000609 | O Fe < 0.008700 | M Nb < 0.000942 | O Si < 0.003052 | M Zr < 0.000942 |
| M As < 0.010371 | M Ga < 0.000942 | M Nd < 0.000942 | M Sm < 0.000942 |                 |
| M Au < 0.001885 | M Gd < 0.000942 | M Ni < 0.003781 | M Sn < 0.005657 |                 |
| O B < 0.003663  | M Ge < 0.005657 | M Os < 0.000942 | M Sr < 0.000942 |                 |
| M Ba < 0.004253 | M Hf < 0.000942 | O P < 0.031668  | M Ta < 0.000942 |                 |
| M Be < 0.000942 | O Hg < 0.007064 | M Pb < 0.005789 | M Tb < 0.000942 |                 |
| M Bi < 0.000942 | M Ho < 0.000942 | M Pd < 0.000942 | M Te < 0.004714 |                 |
| O Ca < 0.002304 | M In < 0.000942 | M Pr < 0.000942 | M Th < 0.000942 |                 |
| M Cd < 0.000942 | M Ir < 0.000942 | M Pt < 0.000942 | O Ti < 0.002801 |                 |
| M Ce < 0.000942 | O K < 0.000763  | M Rb < 0.000942 | M Tl < 0.000942 |                 |
| M Co < 0.001890 | M La < 0.000942 | M Re < 0.000942 | M Tm < 0.000942 |                 |
| M Cr < 0.005657 | O Li < 0.000243 | i Rh <          | M U < 0.000942  |                 |
| M Cs < 0.000942 | M Lu < 0.000942 | M Ru < 0.039588 | M V < 0.003771  |                 |
| s Cu <          | O Mg < 0.000320 | O S < 0.007174  | M W < 0.005657  |                 |
| M Dy < 0.000942 | O Mn < 0.000793 | M Sb < 0.001885 | M Y < 0.000942  |                 |
| M Er < 0.000942 | M Mo < 0.005657 | M Sc < 0.000942 | M Yb < 0.000942 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 63.55 +2 6 Cu(H<sub>2</sub>O)<sub>6</sub><sup>2+</sup>

**Chemical Compatibility** -Stable in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, HF, H<sub>3</sub>PO<sub>4</sub>. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO<sub>3</sub> / LDPE container.

**Cu Containing Samples (Preparation and Solution)** -Metal (soluble in HNO<sub>3</sub> ); Oxides ( Soluble in HCl ); Ores ( Dissolve in HCl / HNO<sub>3</sub>).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences</b> (underlined indicates severe)          |
|-----------------------|-----------------------|--------------|---|
| ICP-MS 63 amu         | 10 ppt                | n/a          | 40Ar23Na 47Ti16O,<br>14N12C37Cl,<br>16O12C35Cl,<br>23Na40Ca |
| ICP-OES 219.958 nm    | 0.01/.002 µg/mL       | 1            | Th, Ta, Nb, U, Hf   |
| ICP-OES 224.700 nm    | 0.01/.001 µg/mL       | 1            | Pb, Ir, Ni, W   |
| ICP-OES 324.754 nm    | 0.06/.001 µg/mL       |              | Nb, U, Th, Mo, Hf   |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

August 24, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **August 24, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
CEO, Senior Technical Director





300 Technology Drive  
Christiansburg, VA 24073 USA  
inorganicventures.com

P: 800-669-6799/540-585-3030  
F: 540-585-3012  
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGPB10  
Lot Number: S2-PB713228  
Matrix: 0.5% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Lead  
Starting Material: Lead Nitrate  
Starting Material Lot#: 2343  
Starting Material Purity: 99.9995%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10042 ± 31 µg/mL  
**Density:** 1.015 g/mL (measured at 20 ± 4 °C)

### Assay Information:

**Assay Method #1**      **10024 ± 41 µg/mL**  
ICP Assay NIST SRM 3128 Lot Number: 101026

**Assay Method #2**      **10054 ± 32 µg/mL**  
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/(u_{char\ i}^2)))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3  $\mu\text{m}$ .

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000310 | M Eu < 0.000310 | M Na < 0.001470 | M Se < 0.009100 | O Zn < 0.006155 |
| O Al < 0.017098 | O Fe < 0.002496 | M Nb < 0.000310 | O Si < 0.003761 | O Zr < 0.001700 |
| M As < 0.003100 | M Ga < 0.000310 | M Nd < 0.000310 | M Sm < 0.000310 |                 |
| M Au < 0.000910 | M Gd < 0.000310 | O Ni < 0.001709 | M Sn < 0.001300 |                 |
| O B < 0.005600  | M Ge < 0.002200 | M Os < 0.000310 | O Sr < 0.000444 |                 |
| O Ba < 0.007865 | M Hf < 0.000310 | O P < 0.038000  | M Ta < 0.000310 |                 |
| O Be < 0.000320 | M Hg < 0.002200 | s Pb < 0.000610 | M Tb < 0.000610 |                 |
| M Bi < 0.028000 | M Ho < 0.000310 | M Pd < 0.000610 | M Te < 0.000310 |                 |
| O Ca < 0.019834 | M In < 0.000310 | M Pr < 0.000310 | M Th < 0.000310 |                 |
| O Cd < 0.000630 | M Ir < 0.000310 | M Pt < 0.000910 | O Ti < 0.005129 |                 |
| M Ce < 0.004787 | O K < 0.008207  | M Rb < 0.006700 | M Tl < 0.016000 |                 |
| M Co < 0.000610 | M La < 0.001900 | M Re < 0.000310 | M Tm < 0.000310 |                 |
| O Cr < 0.001500 | O Li < 0.000110 | O Rh < 0.007700 | M U < 0.000310  |                 |
| M Cs < 0.006100 | M Lu < 0.000310 | M Ru < 0.001300 | M V < 0.001600  |                 |
| M Cu < 0.001600 | O Mg < 0.003317 | O S < 0.052000  | M W < 0.000910  |                 |
| M Dy < 0.000310 | O Mn < 0.001600 | O Sb < 0.015000 | M Y < 0.000310  |                 |
| M Er < 0.000310 | M Mo < 0.000610 | O Sc < 0.000630 | M Yb < 0.000310 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 207.20 +2 6 Pb(H<sub>2</sub>O)<sub>6</sub>+2

**Chemical Compatibility** - Soluble in HCl, HF and HNO<sub>3</sub>. Avoid H<sub>2</sub>SO<sub>4</sub>. Stable with most metals and inorganic anions forming insoluble carbonate, borate, sulfate, sulfite, sulfide, phosphate, oxalate, chromate, tannate, iodate, and cyanide in neutral aqueous media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO<sub>3</sub> / LDPE container.

**Pb Containing Samples (Preparation and Solution)** -Metal (Best dissolved in 1:1 H<sub>2</sub>O / HNO<sub>3</sub> ); Oxides (The many different Pb oxides are soluble in HNO<sub>3</sub> with the exception of PbO<sub>2</sub> which is soluble in HCl or HF); Ores and Alloys (Best attacked using 1:1 H<sub>2</sub>O / HNO<sub>3</sub> ); Organic Matrices (Dry ash and dissolve in dilute HCl).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences</b> (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 208 amu        | 5 ppt                 | n/a          | 192Pt16O,<br>192Os16O                              |
| ICP-OES 168.215 nm    | 0.03 / 0.003 µg/mL    | 1            | Co   |
| ICP-OES 217.000 nm    | 0.09 / 0.03 µg/mL     | 1            | W, Ir, Hf, Sb, Th                                  |
| ICP-OES 220.353 nm    | 0.04 / 0.006 µg/mL    | 1            | Bi, Nb   |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

January 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **January 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Thomas Kozikowski  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGZN10  
Lot Number: S2-ZN711249  
Matrix: 2% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Zinc  
Starting Material: Zinc Metal  
Starting Material Lot#: 2349  
Starting Material Purity: 99.9988%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 9992 ± 30 µg/mL  
**Density:** 1.029 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |   |
|------------------------|---|
| <b>Assay Method #1</b> | <b>9981 ± 56 µg/mL</b><br>ICP Assay NIST SRM 3168a Lot Number: 120629   |
| <b>Assay Method #2</b> | <b>9987 ± 32 µg/mL</b><br>EDTA NIST SRM 928 Lot Number: 928             |
| <b>Assay Method #3</b> | <b>10002 ± 32 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3  $\mu\text{m}$ .

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.002000 | M Eu < 0.000500 | O Na < 0.008713 | M Se < 0.048000 | s Zn <          |
| O Al < 0.011000 | O Fe < 0.015467 | M Nb < 0.000500 | O Si < 0.007842 | M Zr < 0.000500 |
| O As < 0.012000 | M Ga < 0.004900 | M Nd < 0.000500 | M Sm < 0.000500 |                 |
| M Au < 0.006500 | M Gd < 0.000500 | O Ni < 0.003049 | M Sn < 0.002614 |                 |
| O B < 0.019000  | M Ge < 0.009100 | M Os < 0.000500 | M Sr < 0.000500 |                 |
| M Ba < 0.000500 | M Hf < 0.000500 | O P < 0.059000  | M Ta < 0.000500 |                 |
| O Be < 0.000230 | O Hg < 0.003800 | M Pb < 0.016774 | M Tb < 0.000500 |                 |
| M Bi < 0.002400 | M Ho < 0.000500 | M Pd < 0.001000 | M Te < 0.017000 |                 |
| O Ca < 0.052283 | M In < 0.003500 | M Pr < 0.000500 | M Th < 0.000500 |                 |
| O Cd < 0.000588 | M Ir < 0.001000 | M Pt < 0.000500 | M Ti < 0.002000 |                 |
| M Ce < 0.000500 | O K < 0.017209  | M Rb < 0.002500 | M Tl < 0.000500 |                 |
| M Co < 0.000653 | M La < 0.000500 | M Re < 0.000500 | M Tm < 0.000500 |                 |
| O Cr < 0.001089 | O Li < 0.000230 | M Rh < 0.000500 | M U < 0.000500  |                 |
| M Cs < 0.000500 | M Lu < 0.000500 | M Ru < 0.005000 | M V < 0.000500  |                 |
| O Cu < 0.001938 | O Mg < 0.000871 | O S < 0.048000  | M W < 0.001000  |                 |
| M Dy < 0.000500 | O Mn < 0.000172 | M Sb < 0.004300 | M Y < 0.000500  |                 |
| M Er < 0.000500 | M Mo < 0.001500 | O Sc < 0.000900 | M Yb < 0.000500 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 65.39 +2 4 Zn(OH)(aq)1+

**Chemical Compatibility** -Stable in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, HF, H<sub>3</sub>PO<sub>4</sub>. Avoid basic media forming insoluble carbonate and hydroxide. Stable with most metals and inorganic anions in acidic media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO<sub>3</sub> / LDPE container.

**Zn Containing Samples (Preparation and Solution)** -Metal (soluble in HNO<sub>3</sub>); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO<sub>3</sub>); Organic based (dry ash at 4500C and dissolve ash in HCl) (sulfuric/peroxide acid digestion)

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.     | Order | Interferences (underlined indicates severe)  |
|--------------------|--------------------|-------|--|
| ICP-MS 66 amu      | 7 ppt              | N/A   | 50Ti16O,50Cr16O,<br>50V16O, 34S16O2,<br>32S16O18O,<br>32S17O2,<br>33S16O17O,<br>32S34S, 33S2 |
| ICP-OES 202.548 nm | 0.004/0.0002 µg/mL | 1     | Nb, Cu, Co, Hf   |
| ICP-OES 206.200 nm | 0.006/0.0006 µg/mL | 1     | Sb, Ta, Bi, Os   |
| ICP-OES 213.856 nm | 0.002/0.0004 µg/mL | 1     | Ni, Cu, V  |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

**11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY**

**11.1 Certification Issue Date**

November 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **November 22, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**


- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Thomas Kozikowski  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director





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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGSE10  
Lot Number: S2-SE711004  
Matrix: 3% (v/v) HNO3  
Value / Analyte(s): 10 000 µg/mL ea:  
Selenium  
Starting Material: Se Metal  
Starting Material Lot#: 1962  
Starting Material Purity: 99.9991%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 9955 ± 61 µg/mL  
**Density:** 1.035 g/mL (measured at 20 ± 4 °C)

### Assay Information:

**Assay Method #1**      **9955 ± 50 µg/mL**  
ICP Assay NIST SRM 3149 Lot Number: 100901

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

#### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/(u_{char j}^2)))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char}$  =  $[\sum(w_j)^2 (u_{char j})^2]^{1/2}$  where  $u_{char j}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

#### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

$X_a$  = mean of Assay Method A with

$u_{char a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

#### 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

##### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

##### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

##### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

#### 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|        |          |        |          |        |          |        |          |        |          |
|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|
| M Ag < | 0.002242 | M Eu < | 0.000373 | O Na   | 0.013654 | s Se < |          | O Zn   | 0.002374 |
| M Al   | 0.004450 | M Fe   | 0.008478 | O Nb < | 0.002975 | O Si   | 0.006249 | M Zr < | 0.001868 |
| O As < | 0.022040 | M Ga < | 0.000373 | M Nd < | 0.000373 | M Sm < | 0.000373 |        |          |
| M Au < | 0.000373 | M Gd < | 0.000373 | O Ni   | 0.001843 | M Sn   | 0.000847 |        |          |
| O B <  | 0.007714 | M Ge < | 0.002616 | M Os < | 0.000373 | M Sr < | 0.001121 |        |          |
| M Ba < | 0.001495 | M Hf < | 0.000373 | O P <  | 0.022040 | M Ta < | 0.000373 |        |          |
| M Be < | 0.001495 | M Hg < | 0.002240 | M Pb   | 0.006358 | M Tb < | 0.006353 |        |          |
| M Bi < | 0.000373 | M Ho < | 0.000373 | M Pd < | 0.000373 | M Te < | 0.012707 |        |          |
| O Ca   | 0.006530 | M In < | 0.000373 | M Pr < | 0.001495 | M Th < | 0.002990 |        |          |
| M Cd   | 0.001165 | M Ir < | 0.000373 | M Pt < | 0.000373 | M Ti < | 0.003363 |        |          |
| M Ce < | 0.000373 | O K    | 0.001999 | M Rb < | 0.001868 | M Tl   | 0.008584 |        |          |
| M Co < | 0.000373 | M La < | 0.001121 | M Re < | 0.000373 | M Tm < | 0.000373 |        |          |
| M Cr   | 0.002861 | O Li   | 0.000062 | M Rh < | 0.000373 | M U <  | 0.000373 |        |          |
| M Cs < | 0.001121 | M Lu < | 0.000373 | M Ru < | 0.001493 | M V <  | 0.000747 |        |          |
| M Cu < | 0.000747 | O Mg   | 0.001156 | O S    | 0.024591 | M W <  | 0.002242 |        |          |
| M Dy < | 0.000373 | M Mn < | 0.000373 | M Sb < | 0.002242 | M Y <  | 0.000373 |        |          |
| M Er < | 0.000373 | O Mo < | 0.003195 | M Sc < | 0.001121 | M Yb < | 0.000373 |        |          |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

#### 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

#### 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

##### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 78.96 +4 6 H<sub>2</sub>SeO<sub>3</sub>

**Chemical Compatibility** -Soluble in HCl, HNO<sub>3</sub>,H<sub>3</sub>PO<sub>4</sub>, H<sub>2</sub>SO<sub>4</sub> and HF aqueous matrices and water. It is stable with most inorganic anions but many cationic metals form the insoluble selenites under pH neutral conditions. When fluorinated and/or under acidic conditions precipitation is typically not a problem at moderate to low concentrations.

**Stability** - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO<sub>3</sub> / LDPE container.

**Se Containing Samples (Preparation and Solution)** -Metal (soluble in HNO<sub>3</sub>); Oxides ( readily soluble in water); Minerals and alloys (acid digestion with HNO<sub>3</sub>or HNO<sub>3</sub> / HF ); Organic Matrices (acid digestion with hot concentrated H<sub>2</sub>SO<sub>4</sub> accompanied by the careful dropwise addition of H<sub>2</sub>O<sub>2</sub> until clear).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.   | Order | Interferences (underlined indicates severe) |
|--------------------|------------------|-------|---|
| ICP-MS 82 amu      | 200 ppt          | N/A   | 12C35Cl2                                    |
| ICP-OES 196.026 nm | 0.08/0.006 µg/mL | 1     | Fe  |
| ICP-OES 203.985 nm | 0.2/0.05 µg/mL   | 1     | Sb, Ir, Cr, Ta                              |
| ICP-OES 206.279 nm | 0.3/0.16 µg/mL   | 1     | Cr, Pt                                      |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

November 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **November 17, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Prepared By:**

Uyen Truong  
Supervisor, Product Documentation



**Certificate Approved By:**

Michael Booth  
Director, Technical



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGMO10  
Lot Number: S2-MO706255  
Matrix: H2O  
tr. NH4OH  
Value / Analyte(s): 10 000 µg/mL ea:  
Molybdenum  
Starting Material: Ammonium Molybdate  
Starting Material Lot#: 2361  
Starting Material Purity: 99.9893%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10026 ± 47 µg/mL  
**Density:** 1.011 g/mL (measured at 20 ± 4 °C)

### Assay Information:

**Assay Method #1**      **10032 ± 68 µg/mL**  
ICP Assay NIST SRM 3134 Lot Number: 130418

**Assay Method #2**      **10020 ± 65 µg/mL**  
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000590 | M Eu < 0.000300 | M Na < 0.008739 | M Se < 0.008000 | M Zn < 0.005942 |
| M Al < 0.005592 | M Fe < 0.006500 | M Nb < 0.029000 | i Si < 0.001800 | M Zr < 0.001800 |
| M As < 0.002100 | M Ga < 0.000300 | i Nd < 0.000300 | M Sm < 0.000300 |                 |
| M Au < 0.000300 | M Gd < 0.000300 | M Ni < 0.008000 | M Sn < 0.008900 |                 |
| M B < 0.003300  | M Ge < 0.000300 | M Os < 0.000590 | M Sr < 0.001747 |                 |
| M Ba < 0.016778 | M Hf < 0.001800 | i P < 0.004200  | M Ta < 0.004200 |                 |
| M Be < 0.000890 | M Hg < 0.003300 | M Pb < 0.000300 | M Tb < 0.000300 |                 |
| M Bi < 0.000890 | M Ho < 0.000300 | M Pd < 0.001800 | M Te < 0.021000 |                 |
| O Ca < 0.062920 | M In < 0.032000 | M Pr < 0.013000 | M Th < 0.000300 |                 |
| O Cd < 0.026000 | M Ir < 0.000300 | M Pt < 0.000300 | O Ti < 0.032000 |                 |
| M Ce < 0.008300 | M K < 1.293372  | M Rb < 0.045442 | M Tl < 0.012584 |                 |
| M Co < 0.005942 | M La < 0.000300 | M Re < 0.000300 | M Tm < 0.000300 |                 |
| M Cr < 0.005243 | O Li < 0.000594 | M Rh < 0.000300 | M U < 0.005300  |                 |
| M Cs < 0.005243 | M Lu < 0.000300 | M Ru < 0.079000 | M V < 0.000890  |                 |
| M Cu < 0.022371 | M Mg < 0.005592 | i S < 0.873900  | M W < 0.873900  |                 |
| M Dy < 0.000300 | M Mn < 0.005900 | M Sb < 0.015031 | M Y < 0.000300  |                 |
| M Er < 0.000300 | s Mo < 0.000300 | M Sc < 0.001200 | M Yb < 0.000300 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 95.94 +6 6,7,8,9

[MoO4]-2(chemical form as received)

**Chemical Compatibility** -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

**Stability** - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

**Mo Containing Samples (Preparation and Solution)** -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl ).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.       | Order | Interferences (underlined indicates severe) |
|--------------------|----------------------|-------|---|
| ICP-MS 95 amu      | 3 ppt                | n/a   | 40Ar39K16O,79Br1<br>60,190Os2+,190Pt<br>2+  |
| ICP-OES 202.030 nm | 0.008 / 0.0002 µg/mL | 1     | Os, Hf                                      |
| ICP-OES 203.844 nm | 0.012 / 0.002 µg/mL  | 1     |   |
| ICP-OES 204.598 nm | 0.012 / 0.001 µg/mL  | 1     | Ir, Ta                                      |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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**11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY**

**11.1 Certification Issue Date**

July 04, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **July 04, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Director, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director





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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGTL10  
Lot Number: T2-TL714687  
Matrix: 5% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Thallium  
Starting Material: TINO<sub>3</sub>  
Starting Material Lot#: 2118  
Starting Material Purity: 99.9998%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10030 ± 42 µg/mL  
**Density:** 1.036 g/mL (measured at 20 ± 4 °C)

### Assay Information:

**Assay Method #1**      **10040 ± 43 µg/mL**  
ICP Assay NIST SRM 3158 Lot Number: 151215

**Assay Method #2**      **10010 ± 65 µg/mL**  
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3  $\mu\text{m}$ .

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000200 | M Eu < 0.000200 | O Na < 0.002489 | M Se < 0.011019 | O Zn < 0.002298 |
| O Al < 0.004184 | O Fe < 0.002824 | M Nb < 0.000200 | O Si < 0.003760 | M Zr < 0.000200 |
| M As < 0.002003 | M Ga < 0.000200 | M Nd < 0.000200 | M Sm < 0.000200 |                 |
| O Au < 0.002824 | M Gd < 0.000200 | M Ni < 0.001724 | M Sn < 0.000601 |                 |
| O B < 0.004184  | M Ge < 0.000801 | M Os < 0.000198 | O Sr < 0.000313 |                 |
| M Ba < 0.000400 | M Hf < 0.000200 | O P < 0.010460  | M Ta < 0.000200 |                 |
| O Be < 0.000104 | M Hg < 0.000794 | M Pb < 0.000811 | M Tb < 0.000200 |                 |
| M Bi < 0.005209 | M Ho < 0.000200 | M Pd < 0.000400 | M Te < 0.005008 |                 |
| O Ca < 0.002436 | M In < 0.000200 | M Pr < 0.000200 | M Th < 0.000200 |                 |
| M Cd < 0.001318 | M Ir < 0.000198 | M Pt < 0.000801 | O Ti < 0.001255 |                 |
| M Ce < 0.000200 | O K < 0.006175  | M Rb < 0.000200 | s Tl <          |                 |
| M Co < 0.000601 | M La < 0.000200 | M Re < 0.000200 | M Tm < 0.000200 |                 |
| M Cr < 0.000801 | O Li < 0.000177 | M Rh < 0.000200 | M U < 0.000200  |                 |
| M Cs < 0.003606 | M Lu < 0.000200 | M Ru < 0.000397 | M V < 0.002203  |                 |
| M Cu < 0.001001 | O Mg < 0.000529 | O S < 0.015690  | M W < 0.000601  |                 |
| M Dy < 0.000200 | M Mn < 0.000801 | M Sb < 0.000400 | M Y < 0.000200  |                 |
| M Er < 0.000200 | M Mo < 0.001202 | O Sc < 0.000711 | M Yb < 0.000200 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 204.38 +1 6 Ti(H<sub>2</sub>O)<sub>6</sub><sup>1+</sup>  
**Chemical Compatibility** - Soluble in HCl, HNO<sub>3</sub>, and H<sub>2</sub>SO<sub>4</sub>. Stable with most metals and inorganic anions. The sulfite, thiocyanate and oxalate are moderately soluble; the phosphate and arsenite are slightly soluble and the sulfide is insoluble.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO<sub>3</sub> / LDPE container.

**Ti Containing Samples )Preparation and Solution)** -Metal (Best dissolved in HNO<sub>3</sub> which forms chiefly the Ti<sup>1+</sup> ion.); Oxide (The thalious oxide is readily soluble in water. The thallic oxide requires high levels of acid); Ores (Carbonate fusion in Pt<sub>0</sub> followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in HCl).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences</b> (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 205 amu        | 2 ppt                 | N/A          | 189Os16O   |
| ICP-OES 190.864 nm    | 0.04 / 0.004 µg/mL    | 1            | V, Ti  |
| ICP-OES 276.787 nm    | 0.1 / 0.01 µg/mL      | 1            | Ta, V, Fe, Cr                                      |
| ICP-OES 351.924 nm    | 0.2 / 0.02 µg/mL      | 1            | Th, Ce, Zr   |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

February 08, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **February 08, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Thomas Kozikowski  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



300 Technology Drive  
Christiansburg, VA 24073 USA  
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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGCD10  
Lot Number: S2-CD710508  
Matrix: 3% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Cadmium  
Starting Material: Cd Metal  
Starting Material Lot#: 1953  
Starting Material Purity: 99.9995%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10008 ± 30 µg/mL  
**Density:** 1.029 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |   |
|------------------------|---|
| <b>Assay Method #1</b> | <b>10010 ± 32 µg/mL</b><br>EDTA NIST SRM 928 Lot Number: 928            |
| <b>Assay Method #2</b> | <b>10011 ± 30 µg/mL</b><br>ICP Assay NIST SRM 3108 Lot Number: 130116   |
| <b>Assay Method #3</b> | <b>10003 ± 30 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$  where  $u_{char i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

$X_a$  = mean of Assay Method A with

$u_{char a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3  $\mu\text{m}$ .

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| O Ag < 0.003200 | O Eu < 0.002500 | O Na < 0.005499 | M Se < 0.005700 | O Zn < 0.001100 |
| O Al < 0.008903 | O Fe < 0.000602 | M Nb < 0.000400 | O Si < 0.016758 | O Zr < 0.002600 |
| M As < 0.003600 | M Ga < 0.001200 | M Nd < 0.000800 | M Sm < 0.000400 |                 |
| M Au < 0.000810 | M Gd < 0.000400 | M Ni < 0.003600 | M Sn < 0.003200 |                 |
| O B < 0.004189  | O Ge < 0.012000 | M Os < 0.000810 | O Sr < 0.000330 |                 |
| M Ba < 0.002400 | M Hf < 0.000400 | O P < 0.022000  | M Ta < 0.000800 |                 |
| M Be < 0.000400 | M Hg < 0.001700 | M Pb < 0.002400 | M Tb < 0.000400 |                 |
| M Bi < 0.000400 | M Ho < 0.000400 | M Pd < 0.001200 | M Te < 0.008000 |                 |
| O Ca < 0.011259 | O In < 0.013000 | M Pr < 0.000400 | M Th < 0.000400 |                 |
| s Cd < 0.000400 | M Ir < 0.000410 | M Pt < 0.000400 | O Ti < 0.000602 |                 |
| M Ce < 0.000400 | O K < 0.005237  | M Rb < 0.004400 | M Tl < 0.000523 |                 |
| M Co < 0.000400 | M La < 0.000400 | M Re < 0.000400 | M Tm < 0.000400 |                 |
| O Cr < 0.005100 | O Li < 0.000054 | M Rh < 0.000400 | M U < 0.000400  |                 |
| M Cs < 0.002400 | M Lu < 0.000400 | M Ru < 0.002500 | M V < 0.002000  |                 |
| O Cu < 0.004800 | O Mg < 0.000288 | O S < 0.022000  | M W < 0.000400  |                 |
| M Dy < 0.000400 | O Mn < 0.000860 | O Sb < 0.018000 | M Y < 0.000400  |                 |
| M Er < 0.000400 | M Mo < 0.001600 | O Sc < 0.000430 | M Yb < 0.000400 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 112.41 +2 4 Cd<sub>2</sub>(OH)(aq)<sub>3+</sub> and Cd(OH)(aq)

**Chemical Compatibility** -Stable in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, and HF. Avoid basic media forming insoluble carbonate and hydroxide.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO<sub>3</sub> / LDPE container.

**Cd Containing Samples (Preparation and Solution)** -Metal (soluble in HNO<sub>3</sub>); Oxides (soluble in HCl or HNO<sub>3</sub>); Ores (dissolve in HCl /HNO<sub>3</sub> then take to fumes with H<sub>2</sub>SO<sub>4</sub>. The silica and lead sulfate are filtered off after the addition of water); Organic based (dry ash at 450°C and dissolve ash in HCl), (sulfuric / peroxide acid digestion).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.       | Order | Interferences (underlined indicates severe) |
|--------------------|----------------------|-------|---|
| ICP-MS 111 amu     | 11 ppt               | n/a   | 95Mo16O                                     |
| ICP-OES 214.438 nm | 0.003 / 0.0003 µg/mL | 1     | Pt, Ir                                      |
| ICP-OES 226.502 nm | 0.003 / 0.0003 µg/mL | 1     | Ir  |
| ICP-OES 228.802 nm | 0.003 / 0.0003 µg/mL | 1     | Co, Ir, As, Pt                              |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

November 01, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **November 01, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Director, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director





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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGMN10  
Lot Number: S2-MN704240  
Matrix: 3% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Manganese  
Starting Material: Mn Metal  
Starting Material Lot#: 2275  
Starting Material Purity: 99.9909%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10011 ± 30 µg/mL  
**Density:** 1.035 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |   |
|------------------------|---|
| <b>Assay Method #1</b> | <b>9989 ± 69 µg/mL</b><br>ICP Assay NIST SRM 3132 Lot Number: 050429    |
| <b>Assay Method #2</b> | <b>10011 ± 25 µg/mL</b><br>EDTA NIST SRM 928 Lot Number: 928            |
| <b>Assay Method #3</b> | <b>10024 ± 47 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3  $\mu\text{m}$ .

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.001500 | M Eu < 0.000730 | O Na 0.176097   | M Se < 0.006600 | M Zn 0.009925   |
| O Al 0.004322   | M Fe < 0.650000 | M Nb < 0.000730 | O Si 0.097654   | M Zr < 0.000730 |
| M As < 0.008000 | M Ga 0.004322   | M Nd < 0.001500 | M Sm < 0.000730 |                 |
| M Au < 0.000730 | M Gd < 0.000730 | M Ni 0.024013   | M Sn < 0.002200 |                 |
| M B 0.068838    | M Ge < 0.004400 | M Os < 0.000730 | O Sr 0.000928   |                 |
| M Ba < 0.001500 | M Hf < 0.000730 | i P <           | M Ta < 0.000730 |                 |
| M Be < 0.000730 | M Hg < 0.002200 | M Pb 0.007364   | M Tb < 0.000730 |                 |
| M Bi < 0.003000 | M Ho < 0.000730 | M Pd < 0.000730 | M Te < 0.019000 |                 |
| O Ca 0.062434   | M In < 0.003000 | M Pr < 0.000730 | M Th < 0.000730 |                 |
| M Cd < 0.001500 | M Ir < 0.000730 | M Pt < 0.000730 | O Ti < 0.006500 |                 |
| M Ce < 0.007300 | O K 0.006403    | M Rb < 0.006600 | M Tl < 0.000730 |                 |
| O Co 0.014728   | M La < 0.003000 | M Re < 0.000730 | M Tm < 0.000730 |                 |
| O Cr 0.272151   | O Li 0.000416   | M Rh < 0.003000 | M U < 0.001500  |                 |
| M Cs < 0.000730 | M Lu < 0.000730 | M Ru < 0.004400 | M V < 0.000730  |                 |
| O Cu 0.007684   | O Mg 0.320177   | i S <           | M W < 0.004400  |                 |
| M Dy < 0.001500 | s Mn <          | M Sb < 0.021000 | O Y 0.001360    |                 |
| M Er < 0.001500 | M Mo 0.010245   | O Sc < 0.004100 | M Yb < 0.000730 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 54.94 +2 6 Mn(H<sub>2</sub>O)<sub>6</sub>2+

**Chemical Compatibility** -Stable in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, HF, H<sub>3</sub>PO<sub>4</sub>. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO<sub>3</sub>/LDPE container.

**Mn Containing Samples (Preparation and Solution)** -Metal (Soluble in dilute acids ); Oxides (Soluble in dilute acids); Ores (Dissolve with HCl. If silica is present add HF and then fume off silica by adding H<sub>2</sub>SO<sub>4</sub> and heat to SO<sub>3</sub> fumes - dense white fumes).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b>  | <b>Order</b> | <b>Interferences</b> (underlined indicates severe)   |
|-----------------------|------------------------|--------------|--|
| ICP-MS 55 amu         | 10 ppt                 | n/a          | 40Ar14N1H,39K16<br>O,37Cl18O,40Ar15<br>N,38Ar17O,36Ar18O<br>1H<br>,38Ar16O1H,37Cl17<br>O1H,23Na32S |
| ICP-OES 257.610 nm    | 0.0014 / 0.00002 µg/mL | 1            | Ce, W, Re  |
| ICP-OES 259.373 nm    | 0.0016 / 0.00002 µg/mL | 1            | U, Ta, Mo, Fe, Nb  |
| ICP-OES 260.569 nm    | 0.0021 / 0.00002 µg/mL | 1            | Co   |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

**11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY**

**11.1 Certification Issue Date**

April 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **April 17, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Director, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



**1.0 ACCREDITATION / REGISTRATION**

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



**2.0 PRODUCT DESCRIPTION**

Product Code: Single Analyte Custom Grade Solution  
 Catalog Number: CGSB10  
 Lot Number: R2-SB688559  
 Matrix: 3% (v/v) HNO3  
 3% (w/v) tartaric acid  
 Value / Analyte(s): 10 000 µg/mL ea:  
 Antimony  
 Starting Material: Antimony Metal  
 Starting Material Lot#: 1857  
 Starting Material Purity: 99.9894%

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Value:** 10003 ± 47 µg/mL  
**Density:** 1.061 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

**Assay Method #1 10003 ± 41 µg/mL**  
 ICP Assay NIST SRM 3102a Lot Number: 140911

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

**Characterization of CRM/RM by Two or More Methods**

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i) (X_i)$$

$X_i$  = mean of Assay Method i with standard uncertainty  $u_{char i}$   
 $w_i$  = the weighting factors for each method calculated using the inverse square of the variance:  
 $w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2  
 $u_{char} = [\sum((w_i)^2 (u_{char i}^2))]^{1/2}$  where  $u_{char i}$  are the errors from each characterization method  
 $u_{bb}$  = bottle to bottle homogeneity standard uncertainty  
 $u_{lts}$  = long term stability standard uncertainty (storage)  
 $u_{ts}$  = transport stability standard uncertainty

**Characterization of CRM/RM by One Method**

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

$X_a$  = mean of Assay Method A with  
 $u_{char a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2  
 $u_{char a}$  = the errors from characterization  
 $u_{bb}$  = bottle to bottle homogeneity standard uncertainty  
 $u_{lts}$  = long term stability standard uncertainty (storage)  
 $u_{ts}$  = transport stability standard uncertainty

#### 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

##### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

##### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

##### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

#### 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|        |          |        |          |        |          |        |          |        |          |
|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|
| M Ag < | 0.000200 | M Eu < | 0.000300 | O Na   | 0.140000 | M Se < | 0.007300 | O Zn   | 0.005000 |
| M Al   | 0.003200 | O Fe   | 0.060000 | M Nb < | 0.000100 | O Si   | 0.150000 | O Zr < | 0.006300 |
| M As < | 0.004400 | M Ga < | 0.000400 | M Nd < | 0.000100 | M Sm < | 0.000100 |        |          |
| M Au < | 0.000210 | M Gd < | 0.000100 | O Ni   | 0.004800 | M Sn < | 0.001800 |        |          |
| M B <  | 0.011000 | M Ge < | 0.000600 | M Os < | 0.000110 | O Sr   | 0.000750 |        |          |
| O Ba < | 0.004900 | M Hf < | 0.000100 | O P    | 0.540000 | M Ta   | 0.003300 |        |          |
| M Be < | 0.000400 | M Hg < | 0.000110 | M Pb < | 0.000400 | M Tb < | 0.000100 |        |          |
| M Bi < | 0.000200 | M Ho < | 0.000100 | M Pd < | 0.000210 | M Te < | 0.000600 |        |          |
| O Ca   | 0.110000 | M In < | 0.000100 | M Pr < | 0.001600 | M Th < | 0.000100 |        |          |
| M Cd < | 0.000200 | M Ir < | 0.000110 | M Pt < | 0.000600 | M Ti < | 0.002800 |        |          |
| M Ce   | 0.006500 | O K    | 0.020000 | M Rb < | 0.001000 | M Tl < | 0.000100 |        |          |
| M Co < | 0.000200 | O La < | 0.016000 | M Re < | 0.000100 | M Tm < | 0.000100 |        |          |
| M Cr   | 0.006900 | O Li < | 0.000430 | M Rh < | 0.000300 | M U <  | 0.000100 |        |          |
| M Cs < | 0.000200 | M Lu < | 0.000100 | M Ru < | 0.000310 | M V <  | 0.000800 |        |          |
| M Cu < | 0.000600 | O Mg   | 0.021000 | n S <  |          | M W <  | 0.000200 |        |          |
| M Dy < | 0.000100 | O Mn   | 0.001900 | s Sb < |          | M Y <  | 0.000100 |        |          |
| M Er < | 0.000100 | M Mo < | 0.000500 | O Sc < | 0.002300 | M Yb < | 0.000100 |        |          |

M - Checked by ICP-MS      O - Checked by ICP-OES      i - Spectral Interference  
n - Not Checked For      s - Solution Standard Element

#### 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

#### 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

##### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 121.75 +3 6 Sb(O)C4H4O6-1

**Chemical Compatibility** -Stable in conc. HCl, dilute or conc. HF. Stable in dilute HNO3 as the fluoride or tartrate complex. Avoid basic media. Stable with most metals and inorganic anions in acidic media as the tartrate provided the acidity is not too high or the acid is oxidizing causing loss of the stabilizing tartrate ion. The fluoride complex of antimony is stable in strong acid but you should only mix with other metals that are fluorinated.

**Stability** - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-2% HNO3 / LDPE container.

**Sb Containing Samples (Preparation and Solution)** -Metal and alloys (Soluble in H2O / HF / HNO3 mixture); Oxides ( Soluble in HCl and tartaric acid or H2O / HF / HNO3 mixtures); Ores (fusion with Na2CO3 in Pt0 followed by dissolving the fuseate in a H2O / HF / HNO3 mixture); Organic based (sulfuric acid / hydrogen peroxide digestion)

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences (underlined indicates severe)</b> |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 121 amu        | 5 ppt                 | N/A          | 105Pd16O,<br>89Y16O2                               |
| ICP-OES 206.833 nm    | 0.03/0.003 µg/mL      | 1            | Ta, Cr, Ge, Hf                                     |
| ICP-OES 217.581 nm    | 0.05/0.005 µg/mL      | 1            | Nb, W, Re, Fe                                      |
| ICP-OES 231.147 nm    | 0.06/0.006 µg/mL      | 1            | Ni, Co, Pt   |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

April 30, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **April 30, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
CEO, Senior Technical Director





300 Technology Drive  
Christiansburg, VA 24073 USA  
inorganicventures.com

P: 800-669-6799/540-585-3030  
F: 540-585-3012  
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGAS10  
Lot Number: T2-AS718260  
Matrix: 2% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Arsenic  
Starting Material: As Metal  
Starting Material Lot#: 2208  
Starting Material Purity: 99.9971%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10060 ± 40 µg/mL  
**Density:** 1.037 g/mL (measured at 20 ± 4 °C)

### Assay Information:

**Assay Method #1**      **10062 ± 46 µg/mL**  
ICP Assay NIST SRM 3103a Lot Number: 100818

**Assay Method #2**      **10055 ± 76 µg/mL**  
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i})^2 / (\sum(1/(u_{char\ j})^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3  $\mu\text{m}$ .

|        |          |        |          |        |          |        |          |        |          |
|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|
| M Ag < | 0.003200 | M Eu < | 0.000530 | O Na   | 0.032544 | M Se < | 0.006300 | O Zn   | 0.001952 |
| M Al   | 0.007593 | O Fe   | 0.001475 | O Nb < | 0.012000 | O Si   | 0.238658 | O Zr < | 0.004100 |
| s As < |          | M Ga < | 0.000530 | M Nd < | 0.000530 | M Sm < | 0.000530 |        |          |
| M Au < | 0.003100 | M Gd < | 0.000530 | M Ni < | 0.002100 | M Sn < | 0.000530 |        |          |
| M B    | 0.026035 | M Ge < | 0.001600 | M Os < | 0.000520 | M Sr < | 0.000530 |        |          |
| M Ba < | 0.000530 | M Hf < | 0.000530 | O P <  | 0.043000 | M Ta < | 0.000530 |        |          |
| O Be < | 0.000360 | M Hg < | 0.001600 | M Pb < | 0.002100 | M Tb < | 0.000530 |        |          |
| M Bi < | 0.000530 | M Ho < | 0.000530 | M Pd < | 0.001100 | M Te < | 0.004700 |        |          |
| O Ca   | 0.004339 | M In < | 0.023000 | M Pr < | 0.005300 | M Th < | 0.000530 |        |          |
| M Cd < | 0.001100 | M Ir < | 0.000520 | M Pt < | 0.000530 | O Ti < | 0.002300 |        |          |
| M Ce < | 0.000530 | O K    | 0.002061 | M Rb < | 0.000530 | M Tl < | 0.000530 |        |          |
| M Co < | 0.000530 | M La < | 0.001100 | M Re < | 0.000530 | M Tm < | 0.000530 |        |          |
| O Cr < | 0.001800 | O Li < | 0.000120 | M Rh < | 0.000530 | M U <  | 0.000530 |        |          |
| M Cs < | 0.005300 | M Lu < | 0.000530 | M Ru < | 0.000520 | M V <  | 0.002700 |        |          |
| M Cu < | 0.001600 | O Mg   | 0.000154 | O S    | 0.028205 | M W <  | 0.012000 |        |          |
| M Dy < | 0.000530 | O Mn   | 0.000154 | M Sb < | 0.000530 | M Y <  | 0.000530 |        |          |
| M Er < | 0.000530 | M Mo < | 0.000530 | O Sc < | 0.001700 | M Yb < | 0.000530 |        |          |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 74.92 ; mix of +3 and +5 ; 6 ; H3AsO4 and HAsO2

**Chemical Compatibility** - Arsenic has no cationic chemistry. It is soluble in HCl, HNO3, H3PO4, H2SO4 and HF aqueous matrices water and NH4OH . It is stable with most inorganic anions (forms arsenate when boiled with chromate) but many cationic metals form the insoluble arsenates under pH neutral conditions. When fluorinated and / or under acidic conditions arsenate formation is typically not a problem at moderate to low concentrations.

**Stability** - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO3 / LDPE container.

**As Containing Samples (Preparation and Solution)** - Metal (soluble in 1:1 H2O / HNO3 ); Oxides (the oxide exists in crystalline and amorphous forms where the amorphous form is more water soluble. The oxides typically dissolve in dilute acidic solutions when boiled); Minerals (one gram of powdered sample is fused in a Ni crucible with 10 grams of a 1:1 mix of K2CO3 and KNO3 and the melt extracted with hot water); Organic Matrices (0.2 to 0.5 grams of sample are fused with 15 grams of a 1:1 Na2CO3 / Na2O2 mix in a Ni crucible. The fuseate is extracted with water and acidified with HNO3).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences</b> (underlined indicates severe)                        |
|-----------------------|-----------------------|--------------|---|
| ICP-MS 75 amu         | 20 ppt                | N/A          | 40Ar35Cl,<br>59Co16O,<br>36Ar38Ar1H,8Ar37C<br>I,Ar39K,<br>150Nd2+,150Sm2+ |
| ICP-OES 189.042 nm    | 0.05/0.005 µg/mL      | 1            | Cr  |
| ICP-OES 193.696 nm    | 0.1/0.01 µg/mL        | 1            | V, Ge   |
| ICP-OES 228.812 nm    | 0.1/0.01 µg/mL        | 1            | Cd, Pt, Ir, Co  |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

## 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

## 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

May 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

### 11.2 Lot Expiration Date

- **May 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

### Certificate Prepared By:

Uyen Truong  
Supervisor, Product Documentation



### Certificate Approved By:

Michael Booth  
Director, Technical



### Certifying Officer:

Paul Gaines  
Chairman / Senior Technical Director



## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
 Catalog Number: CGBA10  
 Lot Number: R2-BA692576  
 Matrix: 2% (v/v) HNO<sub>3</sub>  
 Value / Analyte(s): 10 000 µg/mL ea:  
                                   Barium  
 Starting Material: Barium Nitrate  
 Starting Material Lot#: 1969  
 Starting Material Purity: 99.9982%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10022 ± 30 µg/mL  
**Density:** 1.025 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |  |
|------------------------|--|
| <b>Assay Method #1</b> | <b>10018 ± 50 µg/mL</b><br>ICP Assay NIST SRM 3104a Lot Number: 140909   |
| <b>Assay Method #2</b> | <b>10023 ± 31 µg/mL</b><br>Gravimetric NIST SRM Lot Number: See Sec. 4.2 |
| <b>Assay Method #3</b> | <b>10023 ± 30 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2  |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum((w_i)^2 (u_{char\ i})^2)]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an UPLA-Filtered Clean Room. An UPLA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000410 | O Eu < 0.005200 | O Na < 0.004610 | M Se < 0.003700 | O Zn < 0.000658 |
| M Al < 0.003100 | O Fe < 0.015707 | M Nb < 0.000210 | O Si < 0.005573 | M Zr < 0.001300 |
| M As < 0.001300 | M Ga < 0.000210 | M Nd < 0.000210 | O Sm < 0.021000 |                 |
| M Au < 0.001300 | M Gd < 0.000210 | M Ni < 0.000810 | M Sn < 0.000410 |                 |
| O B < 0.005200  | M Ge < 0.002500 | M Os < 0.000410 | O Sr < 0.003850 |                 |
| s Ba < 0.000320 | M Hf < 0.000810 | O P < 0.026000  | M Ta < 0.000410 |                 |
| O Be < 0.000320 | M Hg < 0.000210 | M Pb < 0.002300 | M Tb < 0.000210 |                 |
| M Bi < 0.000210 | M Ho < 0.000210 | M Pd < 0.000210 | M Te < 0.001900 |                 |
| O Ca < 0.007093 | M In < 0.000210 | M Pr < 0.000210 | M Th < 0.000210 |                 |
| M Cd < 0.000210 | M Ir < 0.000210 | M Pt < 0.000210 | M Ti < 0.002100 |                 |
| M Ce < 0.001300 | O K < 0.035467  | M Rb < 0.002100 | M Tl < 0.000210 |                 |
| M Co < 0.000410 | O La < 0.005200 | M Re < 0.000210 | M Tm < 0.000410 |                 |
| M Cr < 0.001700 | O Li < 0.000630 | M Rh < 0.000210 | M U < 0.000210  |                 |
| M Cs < 0.003300 | M Lu < 0.001700 | M Ru < 0.000210 | O V < 0.005200  |                 |
| M Cu < 0.001300 | O Mg < 0.000861 | O S < 0.268539  | M W < 0.000410  |                 |
| M Dy < 0.000210 | M Mn < 0.000410 | M Sb < 0.001300 | O Y < 0.005200  |                 |
| M Er < 0.001300 | M Mo < 0.000410 | M Sc < 0.000410 | M Yb < 0.001300 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 137.33 +2 6 Ba(H<sub>2</sub>O)<sub>6</sub>+2

**Chemical Compatibility** - Soluble in HCl, and HNO<sub>3</sub>. Avoid H<sub>2</sub>SO<sub>4</sub>, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, iodate, molybdate, sulfite and tungstate in neutral aqueous media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1 -10,000 ppm solutions chemically stable for years in 1-3.5% HNO<sub>3</sub> / LDPE container.

**Ba Containing Samples (Preparation and Solution)** -Metal(is best dissolved in diluted HNO<sub>3</sub> ); Ores( Carbonate fusion in Pt0 followed by HCl dissolution. If sulfate is present dissolve the fuseate using HCl / tartaric acid to prevent BaSO<sub>4</sub> precipitate ); Organic Matrices (dry ash and dissolve in dilute HCl.)

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences</b> (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 138 amu        | 1 ppt                 | N/A          | 122Sn16O,<br>122Te16O                              |
| ICP-OES 230.424 nm    | 0.004/0.0005 µg/mL    | 1            | Mo, Ir, Co   |
| ICP-OES 233.527 nm    | 0.004/0.0003 µg/mL    | 1            |  |
| ICP-OES 455.403 nm    | 0.002/0.0001 µg/mL    | 1            | Zr, U  |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

May 11, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **May 11, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
CEO, Senior Technical Director





## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGBE10  
Lot Number: R2-BE692992  
Matrix: 6% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Beryllium  
Starting Material: Beryllium Acetate  
Starting Material Lot#: 2281  
Starting Material Purity: 99.9998%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10032 ± 41 µg/mL  
**Density:** 1.128 g/mL (measured at 20 ± 4 °C)

### Assay Information:

**Assay Method #1**      **10042 ± 67 µg/mL**  
ICP Assay NIST SRM 3105a Lot Number: 090514

**Assay Method #2**      **10025 ± 51 µg/mL**  
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.001100 | M Eu < 0.000270 | O Na < 0.040962 | M Se < 0.005000 | M Zn < 0.013054 |
| O Al < 0.016205 | O Fe < 0.015754 | M Nb < 0.000270 | O Si < 0.024307 | O Zr < 0.001900 |
| M As < 0.002900 | M Ga < 0.000270 | M Nd < 0.000270 | M Sm < 0.000270 |                 |
| M Au < 0.000520 | M Gd < 0.000270 | M Ni < 0.003700 | M Sn < 0.000790 |                 |
| M B < 0.091000  | M Ge < 0.000270 | M Os < 0.000260 | M Sr < 0.000630 |                 |
| M Ba < 0.002700 | M Hf < 0.000270 | O P < 0.066000  | M Ta < 0.000270 |                 |
| s Be < 0.000530 | M Hg < 0.000520 | M Pb < 0.000270 | M Tb < 0.000270 |                 |
| M Bi < 0.072022 | M Ho < 0.000270 | M Pd < 0.000520 | M Te < 0.003700 |                 |
| O Ca < 0.000790 | M In < 0.000790 | M Pr < 0.000270 | M Th < 0.000270 |                 |
| M Cd < 0.000270 | M Ir < 0.000260 | M Pt < 0.000270 | O Ti < 0.000400 |                 |
| M Ce < 0.000270 | O K < 0.045014  | M Rb < 0.000270 | M Tl < 0.000790 |                 |
| O Co < 0.003200 | M La < 0.000270 | M Re < 0.000270 | M Tm < 0.000270 |                 |
| O Cr < 0.001800 | O Li < 0.000660 | M Rh < 0.001100 | M U < 0.000270  |                 |
| M Cs < 0.001440 | M Lu < 0.000270 | M Ru < 0.000260 | M V < 0.000790  |                 |
| M Cu < 0.002100 | O Mg < 0.016205 | i S < 0.000270  | M W < 0.000530  |                 |
| M Dy < 0.000270 | M Mn < 0.001215 | M Sb < 0.000270 | M Y < 0.000270  |                 |
| M Er < 0.000270 | M Mo < 0.000530 | O Sc < 0.000930 | M Yb < 0.000270 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 9.01 +2 4 Be(H<sub>2</sub>O)<sub>4</sub>+2

**Chemical Compatibility** -Soluble in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub> and HF aqueous matrices. Stable with all metals and inorganic anions.

**Stability** - 2-100 ppb levels stable for months in 1 % HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 5-10 % HNO<sub>3</sub> / LDPE container.

**Be Containing Samples (Preparation and Solution)** - Meta I(is best dissolved in diluted H<sub>2</sub>SO<sub>4</sub> ); BeO (boiling nitric, hydrochloric, or sulfuric acids or KHSO<sub>4</sub> fusion); Ores (H<sub>2</sub>SO<sub>4</sub>/HF digestion or carbonate fusion in Pt0); Organic Matrices (sulfuric/peroxide digestion or nitric/sulfuric/perchloric acid decomposition, or dry ash and dissolution according to the BeO procedure above).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences</b> (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 9 amu          | 4 ppt                 | N/A          |  |
| ICP-OES 234.861 nm    | 0.0003/0.00016 µg/mL  | 1            | Fe, Ta, Mo   |
| ICP-OES 313.042 nm    | 0.0003/0.00009 µg/mL  | 1            | V, Ce, U   |
| ICP-OES 313.107 nm    | 0.0007/0.0005 µg/mL   | 1            | Ce, Th, Tm   |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## 11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

**11.1 Certification Issue Date**

May 13, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **May 13, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**11.4 Revision Status**

- Revision 1 - Revised on Thursday, Jan 14, 2021 by utruong. Revision was made for the following reason: Modified Section 7 Chemical Form in Solution.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Director, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



**1.0 ACCREDITATION / REGISTRATION**

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



**2.0 PRODUCT DESCRIPTION**

Product Code: Single Analyte Custom Grade Solution  
 Catalog Number: CGCO10  
 Lot Number: R2-CO695285  
 Matrix: 3% (v/v) HNO3  
 Value / Analyte(s): 10 000 µg/mL ea:  
 Cobalt  
 Starting Material: Co Metal  
 Starting Material Lot#: 2326  
 Starting Material Purity: 99.9934%

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Value:** 10012 ± 31 µg/mL  
**Density:** 1.056 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

- Assay Method #1**      **10031 ± 67 µg/mL**  
 ICP Assay NIST SRM 3113 Lot Number: 190630
  
- Assay Method #2**      **10019 ± 32 µg/mL**  
 EDTA NIST SRM 928 Lot Number: 928
  
- Assay Method #3**      **10000 ± 35 µg/mL**  
 Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/CRM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i) X_i$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i})^2]^{1/2}$  where  $u_{char i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

$X_a$  = mean of Assay Method A with

$u_{char a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an UPLA-Filtered Clean Room. An UPLA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|      |          |          |          |          |          |          |          |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| M Ag | 0.014660 | M Eu     | <        | 0.000590 | O Na     | 0.007534 | M Se     | <        | 0.019000 | M Zn     | 0.003461 |          |
| M Al | <        | 0.024000 | M Fe     | 0.050905 | M Nb     | <        | 0.000590 | O Si     | 0.075340 | M Zr     | <        | 0.001200 |
| i As | <        |          | M Ga     | <        | 0.000590 | M Nd     | <        | 0.000590 | M Sm     | <        | 0.000590 |          |
| M Au | <        | 0.004100 | M Gd     | <        | 0.000590 | O Ni     | 0.427608 | M Sn     | <        | 0.001200 |          |          |
| M B  | <        | 0.031000 | M Ge     | <        | 0.003000 | M Os     | <        | 0.000590 | O Sr     | <        | 0.000260 |          |
| M Ba | <        | 0.000590 | M Hf     | <        | 0.000590 | n P      | <        |          | M Ta     | <        | 0.001200 |          |
| O Be | <        | 0.001300 | M Hg     | <        | 0.001800 | M Pb     | 0.003257 | M Tb     | <        | 0.000590 |          |          |
| M Bi | <        | 0.003000 | M Ho     | <        | 0.000590 | M Pd     | <        | 0.000590 | M Te     | <        | 0.005300 |          |
| O Ca | 0.010588 | M In     | <        | 0.001200 | M Pr     | <        | 0.000590 | M Th     | <        | 0.000590 |          |          |
| M Cd | <        | 0.004700 | M Ir     | <        | 0.001200 | M Pt     | <        | 0.002400 | M Ti     | <        | 0.014000 |          |
| M Ce | <        | 0.000590 | O K      | 0.008144 | M Rb     | <        | 0.000590 | M Tl     | 0.002647 |          |          |          |
| s Co | <        |          | M La     | <        | 0.000590 | M Re     | <        | 0.000590 | M Tm     | <        | 0.000590 |          |
| M Cr | <        | 0.021000 | O Li     | <        | 0.000130 | M Rh     | <        | 0.000590 | M U      | <        | 0.000590 |          |
| M Cs | <        | 0.002400 | M Lu     | <        | 0.000590 | M Ru     | <        | 0.007100 | O V      | <        | 0.000880 |          |
| M Cu | 0.189369 | O Mg     | 0.001893 | n S      | <        |          |          | M W      | <        | 0.000590 |          |          |
| M Dy | <        | 0.000590 | M Mn     | <        | 0.001800 | M Sb     | <        | 0.003600 | M Y      | <        | 0.000590 |          |
| M Er | <        | 0.000590 | M Mo     | <        | 0.002400 | O Sc     | <        | 0.001600 | M Yb     | <        | 0.000590 |          |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 58.93 +2 6 Co(H<sub>2</sub>O)<sub>6</sub><sup>2+</sup>

**Chemical Compatibility** - Stable in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, HF, H<sub>3</sub>PO<sub>4</sub>. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO<sub>3</sub> / LDPE container.

**Co Containing Samples (Preparation and Solution)** - Metal (soluble in HNO<sub>3</sub>); Oxides (Soluble in HCl); Ores (dissolve in HCl / HNO<sub>3</sub>).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.   | Order | Interferences (underlined indicates severe)                     |
|--------------------|------------------|-------|---|
| ICP-MS 59 amu      | 2 ppt            | n/a   | 42Ca16O1H ,<br>40Ar18O1H ,<br>36Ar23Na,<br>43Ca16O,<br>24Mg35Cl |
| ICP-OES 228.616 nm | 0.01/0.001 µg/mL | 1     |   |
| ICP-OES 237.862 nm | 0.01/0.002 µg/mL | 1     | W, Re, Al, Ta   |
| ICP-OES 238.892 nm | 0.01/0.002 µg/mL | 1     | Fe, W, Ta   |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

August 04, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **August 04, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Director, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director





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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGAG10  
Lot Number: S2-AG712977  
Matrix: 7% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Silver  
Starting Material: Ag Shot  
Starting Material Lot#: 2289  
Starting Material Purity: 99.9951%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10051 ± 30 µg/mL  
**Density:** 1.056 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |   |
|------------------------|---|
| <b>Assay Method #1</b> | <b>10051 ± 52 µg/mL</b><br>ICP Assay NIST SRM 3151 Lot Number: 160729   |
| <b>Assay Method #2</b> | <b>10051 ± 19 µg/mL</b><br>Volhard NIST SRM 999c Lot Number: 999c       |
| <b>Assay Method #3</b> | <b>10049 ± 31 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|   |      |          |   |      |          |   |      |          |   |      |          |   |      |          |
|---|------|----------|---|------|----------|---|------|----------|---|------|----------|---|------|----------|
| s | Ag < |          | M | Eu < | 0.000260 | O | Na   | 0.003811 | M | Se < | 0.003900 | O | Zn   | 0.048146 |
| M | Al   | 0.002688 | O | Fe   | 0.006419 | M | Nb < | 0.000260 | O | Si   | 0.005215 | M | Zr < | 0.000260 |
| M | As < | 0.001100 | M | Ga < | 0.000260 | M | Nd < | 0.000260 | M | Sm < | 0.000260 |   |      |          |
| M | Au < | 0.000260 | M | Gd < | 0.000260 | O | Ni   | 0.001765 | M | Sn   | 0.020060 |   |      |          |
| O | B <  | 0.004300 | M | Ge < | 0.002300 | M | Os < | 0.001100 | O | Sr < | 0.000110 |   |      |          |
| M | Ba < | 0.000520 | M | Hf < | 0.000260 | O | P <  | 0.017000 | M | Ta < | 0.000260 |   |      |          |
| O | Be < | 0.001100 | M | Hg < | 0.000770 | M | Pb < | 0.003600 | M | Tb < | 0.000260 |   |      |          |
| M | Bi   | 0.004814 | M | Ho < | 0.000260 | M | Pd   | 0.044134 | M | Te < | 0.009000 |   |      |          |
| O | Ca   | 0.005215 | M | In   | 0.003691 | M | Pr < | 0.000260 | M | Th < | 0.000260 |   |      |          |
| M | Cd < | 0.000260 | M | Ir < | 0.000520 | M | Pt < | 0.001100 | O | Ti < | 0.000440 |   |      |          |
| M | Ce < | 0.002100 | O | K <  | 0.008700 | M | Rb < | 0.001100 | M | Tl < | 0.004100 |   |      |          |
| O | Co < | 0.000330 | M | La < | 0.000260 | M | Re < | 0.000260 | M | Tm < | 0.000260 |   |      |          |
| O | Cr < | 0.002500 | O | Li < | 0.000110 | M | Rh < | 0.000520 | M | U <  | 0.000260 |   |      |          |
| M | Cs < | 0.002600 | M | Lu < | 0.000260 | M | Ru < | 0.000260 | M | V <  | 0.000260 |   |      |          |
| O | Cu   | 0.357085 | O | Mg   | 0.001203 | O | S <  | 0.017000 | M | W <  | 0.000260 |   |      |          |
| M | Dy < | 0.000260 | O | Mn < | 0.000220 | M | Sb < | 0.014000 | M | Y <  | 0.000260 |   |      |          |
| M | Er < | 0.000260 | M | Mo < | 0.000260 | O | Sc < | 0.000220 | M | Yb < | 0.000260 |   |      |          |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 107.87 +1 6 Ag(H<sub>2</sub>O)<sub>6</sub><sup>+</sup>  
**Chemical Compatibility** - Stable in HNO<sub>3</sub>, and HF. Avoid basic media. Ag forms more insoluble salts than any other metal. It also is subject to photochemical reduction to the metal in HCl media although 10 µg/mL solutions in 10% HCl [ AgCl<sub>x</sub>1-x] are commonly used in the analytical laboratory. The most common solubility problems exist with arsenate, arsenite, bromide, chloride, iodide, carbonate, chromate, cyanide, iodate, oxalate, oxide, sulfate, sulfide, tartrate, and thiocyanate in aqueous media. The addition of nitric acid renders many of these salts soluble.

**Stability** - 2-100 ppb levels stable for 75+ days when mixed with equivalent levels of all other elements including the precious metals (where chloride is present) when in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO<sub>3</sub> / LDPE container.

**Ag Containing Samples (Preparation and Solution)** - Metal (Soluble in HNO<sub>3</sub>); Oxides (Soluble in HNO<sub>3</sub>); Ores (Digestion with conc. HNO<sub>3</sub>).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.     | Order | Interferences (underlined indicates severe) |
|--------------------|--------------------|-------|---|
| ICP-MS 107 amu     | 1 ppt              | N/A   | 91Zr16O                                     |
| ICP-OES 243.779 nm | 0.12/0.01 µg/mL    | 1     | Mn, Th, Ni, Rh                              |
| ICP-OES 328.068 nm | 0.007/0.0007 µg/mL | 1     | Ce, Rh, V                                   |
| ICP-OES 338.289 nm | 0.013/0.001 µg/mL  | 1     | Ce, Cr, Th                                  |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Prepared By:**

Uyen Truong  
Supervisor, Product Documentation



**Certificate Approved By:**

Michael Booth  
Director, Technical



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGCR(3)10  
Lot Number: S2-CR709784  
Matrix: 10% (v/v) HNO3  
Value / Analyte(s): 10 000 µg/mL ea:  
Chromium  
Starting Material: Cr Metal  
Starting Material Lot#: 2328  
Starting Material Purity: 99.9951%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10027 ± 41 µg/mL  
**Density:** 1.072 g/mL (measured at 20 ± 4 °C)

### Assay Information:

**Assay Method #1**      **10027 ± 40 µg/mL**  
ICP Assay NIST SRM 3112a Lot Number: 170630

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

#### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$   
 $w_i$  = the weighting factors for each method calculated using the inverse square of the variance:  
 $w_i = (1/u_{char\ i}^2) / (\sum(1/(u_{char\ i}^2)))$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2  
 $u_{char}$  =  $[\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method  
 $u_{bb}$  = bottle to bottle homogeneity standard uncertainty  
 $u_{Its}$  = long term stability standard uncertainty (storage)  
 $u_{ts}$  = transport stability standard uncertainty

#### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a)(u_{char\ a})$$

$X_a$  = mean of Assay Method A with  
 $u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2  
 $u_{char\ a}$  = the errors from characterization  
 $u_{bb}$  = bottle to bottle homogeneity standard uncertainty  
 $u_{Its}$  = long term stability standard uncertainty (storage)  
 $u_{ts}$  = transport stability standard uncertainty

**4.0 TRACEABILITY TO NIST**

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

**4.1 Thermometer Calibration**

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

**4.2 Balance Calibration**

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

**4.3 Glassware Calibration**

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

**5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)**

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|        |          |   |      |          |   |      |          |   |      |          |   |      |          |
|--------|----------|---|------|----------|---|------|----------|---|------|----------|---|------|----------|
| M Ag < | 0.001700 | M | Eu < | 0.003400 | O | Na   | 0.090372 | M | Se < | 0.012000 | O | Zn < | 0.006100 |
| M Al   | 0.034916 | O | Fe   | 0.246471 | M | Nb < | 0.017000 | n | Si < |          | M | Zr < | 0.007800 |
| M As < | 0.028000 | O | Ga < | 0.013000 | M | Nd < | 0.013000 | M | Sm < | 0.006900 |   |      |          |
| M Au < | 0.001700 | M | Gd < | 0.000560 | M | Ni   | 0.016020 | M | Sn   | 0.006983 |   |      |          |
| O B <  | 0.025000 | O | Ge < | 0.014000 | M | Os < | 0.000560 | M | Sr   | 0.006367 |   |      |          |
| M Ba < | 0.008900 | M | Hf < | 0.000560 | i | P <  |          | M | Ta < | 0.000560 |   |      |          |
| M Be < | 0.013000 | M | Hg < | 0.001700 | M | Pb   | 0.010064 | M | Tb < | 0.000560 |   |      |          |
| M Bi < | 0.002300 | M | Ho < | 0.000560 | M | Pd < | 0.021000 | M | Te < | 0.010000 |   |      |          |
| O Ca   | 0.075995 | M | In < | 0.000560 | M | Pr < | 0.001700 | M | Th < | 0.000560 |   |      |          |
| M Cd < | 0.000560 | M | Ir < | 0.000560 | M | Pt < | 0.001200 | O | Ti   | 0.013555 |   |      |          |
| M Ce < | 0.001200 | O | K    | 0.043132 | i | Rb < |          | M | Tl < | 0.000560 |   |      |          |
| M Co < | 0.002600 | M | La < | 0.001200 | M | Re < | 0.001200 | O | Tm < | 0.013000 |   |      |          |
| s Cr < |          | O | Li   | 0.000390 | M | Rh < | 0.095000 | M | U <  | 0.000560 |   |      |          |
| M Cs < | 0.007800 | M | Lu < | 0.000560 | M | Ru < | 0.087000 | O | V    | 0.014993 |   |      |          |
| O Cu   | 0.007599 | O | Mg   | 0.000883 | i | S <  |          | M | W <  | 0.049000 |   |      |          |
| M Dy < | 0.000560 | M | Mn   | 0.008626 | M | Sb < | 0.003400 | M | Y <  | 0.001700 |   |      |          |
| M Er < | 0.019000 | M | Mo < | 0.032000 | M | Sc   | 0.003080 | M | Yb < | 0.000560 |   |      |          |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

**6.0 INTENDED USE**

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

**7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL**

**7.1 Storage and Handling Recommendations**

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 52.00 +3 6 Cr(H<sub>2</sub>O)<sub>6</sub>3+

**Chemical Compatibility** -Stable in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, HF, H<sub>3</sub>PO<sub>4</sub>. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO<sub>3</sub> / LDPE container.

**Cr<sub>3</sub> Containing Samples (Preparation and Solution)** -Metal (soluble in HCl ); Oxides/Ores (Chrome ore/oxides are very difficult to dissolve. The following procedures [A-D] are commonly used: A. Fusion with KHSO<sub>4</sub> and extraction with hot KCl. The residue fused with Na<sub>2</sub>CO<sub>3</sub> and KClO<sub>3</sub>, 3:1. B. Fusion with NaKSO<sub>4</sub> and NaF 2:1, C. Fusion with magnesia or lime and sodium or potassium carbonates, 4:1. D. Fusion with Na<sub>2</sub>O<sub>2</sub> or NaOH and KNO<sub>3</sub> or NaOH and Na<sub>2</sub>O<sub>2</sub>. Nickel, iron, copper, or silver crucibles should be used for D. Platinum may be used for A, <, C); Organic Matrices (ash at 4500C followed by one of the fusion methods above or sulfuric/hydrogen peroxide acid digestions may be applicable to non oxide containing samples).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences</b> (underlined indicates severe)  |
|-----------------------|-----------------------|--------------|---|
| ICP-MS 52 amu         | 40 ppt                | N/A          | 36S16O, 36Ar16O -<br>The 50Cr, 53Cr,<br>54Cr lines suffer<br>from many more<br>potential<br>interferences from<br>sulfur, chlorine and<br>argon compounds<br>of oxygen, nitrogen<br>and carbon. |
| ICP-OES 205.552 nm    | 0.006/0.0008 µg/mL    | 1            | Os  |
| ICP-OES 276.654 nm    | 0.01/0.001 µg/mL      | 1            | Cu, Ta, V   |
| ICP-OES 284.325 nm    | 0.008/0.0007 µg/mL    | 1            |   |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

**10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"**

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

**11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY**

**11.1 Certification Issue Date**

October 26, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **October 26, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Director, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director





## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
 Catalog Number: CGNI10  
 Lot Number: P2-NI686384  
 Matrix: 3% (v/v) HNO<sub>3</sub>  
 Value / Analyte(s): 10 000 µg/mL ea:  
 Nickel  
 Starting Material: Ni Metal  
 Starting Material Lot#: 2277 and 2282  
 Starting Material Purity: 99.9992%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 9979 ± 30 µg/mL  
**Density:** 1.038 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |  |
|------------------------|--|
| <b>Assay Method #1</b> | <b>9971 ± 54 µg/mL</b><br>ICP Assay NIST SRM 3136 Lot Number: 120619   |
| <b>Assay Method #2</b> | <b>9970 ± 32 µg/mL</b><br>EDTA NIST SRM 928 Lot Number: 928            |
| <b>Assay Method #3</b> | <b>9993 ± 33 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum((w_i)^2 (u_{char\ i})^2)]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|      |          |          |          |          |          |          |          |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| M Ag | 0.002606 | M Eu     | <        | 0.001100 | O Na     | 0.004965 | O Se     | <        | 0.067000 | M Zn     | 0.006578 |          |
| M Al | <        | 0.013000 | O Fe     | 0.018618 | M Nb     | <        | 0.001100 | O Si     | 0.010923 | M Zr     | <        | 0.001100 |
| O As | <        | 0.067000 | M Ga     | <        | 0.001100 | M Nd     | <        | 0.001100 | M Sm     | <        | 0.001100 |          |
| M Au | <        | 0.002100 | M Gd     | <        | 0.001100 | s Ni     | <        |          | M Sn     | <        | 0.016000 |          |
| M B  | <        | 0.017000 | M Ge     | <        | 0.004200 | M Os     | 0.002110 | O Sr     | <        | 0.000940 |          |          |
| M Ba | <        | 0.001100 | M Hf     | <        | 0.001100 | i P      | <        |          | M Ta     | <        | 0.001100 |          |
| O Be | <        | 0.000410 | M Hg     | 0.014895 | M Pb     | 0.006578 | M Tb     | <        | 0.001100 |          |          |          |
| M Bi | <        | 0.004200 | M Ho     | <        | 0.001100 | M Pd     | <        | 0.001100 | M Te     | <        | 0.015000 |          |
| O Ca | 0.003351 | M In     | <        | 0.001100 | M Pr     | <        | 0.001100 | M Th     | <        | 0.001100 |          |          |
| M Cd | 0.001365 | M Ir     | 0.004716 | M Pt     | <        | 0.001100 | M Ti     | <        | 0.004200 |          |          |          |
| M Ce | <        | 0.001100 | O K      | 0.004716 | M Rb     | <        | 0.001100 | M Tl     | <        | 0.001100 |          |          |
| O Co | 0.017377 | M La     | <        | 0.001100 | M Re     | 0.001737 | M Tm     | <        | 0.001100 |          |          |          |
| O Cr | <        | 0.006700 | O Li     | <        | 0.000140 | M Rh     | <        | 0.006300 | M U      | <        | 0.001100 |          |
| M Cs | <        | 0.007300 | M Lu     | <        | 0.001100 | M Ru     | <        | 0.019000 | M V      | <        | 0.002100 |          |
| M Cu | 0.004096 | O Mg     | 0.000372 | i S      | <        |          |          | M W      | <        | 0.006300 |          |          |
| M Dy | <        | 0.001100 | O Mn     | <        | 0.001900 | M Sb     | 0.005833 | O Y      | <        | 0.000540 |          |          |
| M Er | <        | 0.001100 | M Mo     | <        | 0.008400 | M Sc     | <        | 0.002100 | M Yb     | <        | 0.001100 |          |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 58.69 +2 6 Ni(H<sub>2</sub>O)<sub>6</sub><sup>2+</sup>

**Chemical Compatibility** -Stable in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, HF, H<sub>3</sub>PO<sub>4</sub>. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO<sub>3</sub> / LDPE container.

**Ni Containing Samples (Preparation and Solution)** -Metal (Soluble in HNO<sub>3</sub>); Oxides ( Soluble in HCl ); Ores (Dissolve in HCl / HNO<sub>3</sub>).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences</b> (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 60 amu         | 100 ppt               | n/a          | 43Ca16O1H ,<br>44Ca16O,<br>23Na37Cl                |
| ICP-OES 221.647 nm    | 0.01 / 0.0009 µg/mL   | 1            | Si   |
| ICP-OES 231.604 nm    | 0.02 / 0.002 µg/mL    | 1            | Sb, Ta, Co   |
| ICP-OES 232.003 nm    | 0.02 / 0.006 µg/mL    | 1            | Cr, Re, Os, Nb, Ag,<br>Pt, Fe                      |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

December 02, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **December 02, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
CEO, Senior Technical Director



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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGV10  
Lot Number: S2-V711005  
Matrix: 7% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Vanadium  
Starting Material: Vanadium Pentoxide  
Starting Material Lot#: 1782  
Starting Material Purity: 99.9877%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10014 ± 30 µg/mL  
**Density:** 1.104 g/mL (measured at 20 ± 4 °C)

### Assay Information:

**Assay Method #1**      **10017 ± 42 µg/mL**  
ICP Assay NIST SRM 3165 Lot Number: 160906

**Assay Method #2**      **10013 ± 30 µg/mL**  
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3  $\mu\text{m}$ .

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000110 | M Eu < 0.000110 | O Na 0.120000   | M Se < 0.009400 | M Zn 0.009400   |
| O Al 0.120000   | O Fe 0.460000   | M Nb < 0.001300 | O Si 0.270000   | M Zr < 0.002900 |
| M As < 0.000210 | M Ga < 0.009300 | M Nd < 0.000610 | M Sm < 0.000110 |                 |
| M Au < 0.004700 | M Gd < 0.000110 | M Ni 0.012000   | M Sn 0.003900   |                 |
| M B 0.051000    | M Ge < 0.000410 | M Os < 0.000110 | O Sr 0.007100   |                 |
| M Ba 0.003600   | M Hf < 0.000110 | O P < 0.034000  | M Ta < 0.000110 |                 |
| O Be < 0.000560 | M Hg < 0.000410 | M Pb 0.001400   | M Tb < 0.000110 |                 |
| M Bi < 0.000210 | M Ho < 0.000110 | M Pd < 0.000410 | M Te < 0.000110 |                 |
| O Ca 0.730000   | M In < 0.000110 | M Pr < 0.000110 | M Th < 0.000210 |                 |
| M Cd < 0.000610 | M Ir < 0.000110 | M Pt < 0.000110 | M Ti 0.017000   |                 |
| M Ce < 0.000610 | M K 0.052000    | M Rb < 0.000310 | M Tl < 0.000110 |                 |
| M Co < 0.001300 | M La < 0.000410 | M Re 0.001700   | M Tm < 0.000110 |                 |
| O Cr 0.170000   | M Li < 0.000810 | M Rh < 0.000110 | M U < 0.000410  |                 |
| M Cs 0.005600   | M Lu < 0.000110 | M Ru < 0.000110 | s V <           |                 |
| M Cu < 0.001300 | M Mg 0.053000   | i S <           | M W 0.002000    |                 |
| M Dy < 0.000110 | M Mn 0.007900   | M Sb 0.078000   | M Y < 0.000110  |                 |
| M Er < 0.000110 | M Mo 0.094000   | M Sc < 0.000410 | M Yb < 0.000110 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 50.94 +5 6 H<sub>2</sub>V<sub>10</sub>O<sub>28</sub>-

**Chemical Compatibility** -Soluble in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, HF, H<sub>3</sub>PO<sub>4</sub> and strong basic media. Stable with most metals and inorganic anions in acidic media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO<sub>3</sub> / LDPE container.

**V Containing Samples (Preparation and Solution)** -Metal (Fusion with NaOH or KOH in NiO or Na<sub>2</sub>CO<sub>3</sub> / KNO<sub>3</sub>); Oxides (V<sub>2</sub>O<sub>3</sub> - use HCl, V<sub>2</sub>O<sub>4</sub> - use HCl or HNO<sub>3</sub>, V<sub>2</sub>O<sub>5</sub> - use concentrated acids); Ores (Na<sub>2</sub>CO<sub>3</sub> / KNO<sub>3</sub> in PtO caution - nitrates attack PtO followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V<sub>2</sub>O<sub>5</sub> above) .

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences</b> (underlined indicates severe)   |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 51 amu         | 4 ppt                 | N/A          | 34S16O1H,<br>35Cl16O, 38Ar13C,<br>36Ar15N,<br>36Ar14N1H,<br>37Cl14N,36S15N,<br>33S18O, 34S17O,<br>102Ru+2,02Pd+2 |
| ICP-OES 290.882 nm    | 0.008 / 0.0008 µg/mL  | 1            | Hf, Nb   |
| ICP-OES 292.402 nm    | 0.006 / 0.001 µg/mL   | 1            | Th   |
| ICP-OES 309.311 nm    | 0.005 / 0.001 µg/mL   | 1            | Mg, U, Th  |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

**10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"**

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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**11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY**

**11.1 Certification Issue Date**

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Thomas Kozikowski  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director





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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGAL10  
Lot Number: T2-AL716102  
Matrix: 7% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Aluminum  
Starting Material: Aluminum Nitrate Nonahydrate  
Starting Material Lot#: 2460  
Starting Material Purity: 99.9938%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10049 ± 31 µg/mL  
**Density:** 1.087 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |   |
|------------------------|---|
| <b>Assay Method #1</b> | <b>10059 ± 40 µg/mL</b><br>ICP Assay NIST SRM 3101a Lot Number: 140903  |
| <b>Assay Method #2</b> | <b>10044 ± 26 µg/mL</b><br>EDTA NIST SRM 928 Lot Number: 928            |
| <b>Assay Method #3</b> | <b>10049 ± 35 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$  where  $u_{char i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

$X_a$  = mean of Assay Method A with

$u_{char a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3  $\mu\text{m}$ .

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.002100 | M Eu < 0.002100 | O Na < 0.352819 | M Se < 0.005200 | M Zn < 0.006018 |
| s Al < 0.002100 | O Fe < 0.074714 | M Nb < 0.000520 | O Si < 0.017848 | O Zr < 0.004358 |
| M As < 0.008716 | O Ga < 0.112072 | M Nd < 0.000520 | M Sm < 0.000520 |                 |
| M Au < 0.008400 | M Gd < 0.001100 | O Ni < 0.006000 | M Sn < 0.000747 |                 |
| O B < 0.014000  | M Ge < 0.005200 | M Os < 0.000650 | O Sr < 0.000518 |                 |
| O Ba < 0.012867 | M Hf < 0.004100 | n P < 0.000520  | M Ta < 0.000520 |                 |
| O Be < 0.000270 | M Hg < 0.002000 | M Pb < 0.002282 | M Tb < 0.000520 |                 |
| M Bi < 0.001930 | M Ho < 0.000520 | M Pd < 0.000520 | M Te < 0.001100 |                 |
| O Ca < 0.076790 | M In < 0.002100 | M Pr < 0.000520 | M Th < 0.000520 |                 |
| M Cd < 0.000520 | M Ir < 0.000650 | M Pt < 0.000520 | O Ti < 0.001930 |                 |
| M Ce < 0.001100 | O K < 0.043583  | M Rb < 0.000520 | M Tl < 0.000520 |                 |
| O Co < 0.005400 | M La < 0.002100 | M Re < 0.000520 | M Tm < 0.000520 |                 |
| O Cr < 0.006018 | O Li < 0.000112 | M Rh < 0.000520 | M U < 0.000520  |                 |
| M Cs < 0.000643 | M Lu < 0.000520 | M Ru < 0.002000 | M V < 0.001286  |                 |
| O Cu < 0.008300 | O Mg < 0.068488 | i S < 0.000520  | M W < 0.009800  |                 |
| M Dy < 0.002100 | O Mn < 0.000913 | M Sb < 0.003100 | M Y < 0.001100  |                 |
| M Er < 0.000520 | M Mo < 0.005396 | O Sc < 0.000950 | M Yb < 0.000520 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 26.98 +3 6 Al(H<sub>2</sub>O)<sub>6</sub>+3

**Chemical Compatibility** -Soluble in HCl, HNO<sub>3</sub>, vF and v2SO<sub>4</sub>. Avoid neutral media. Soluble in strongly basic NaOH forming the Al(OH)<sub>4</sub>(H<sub>2</sub>O)<sub>2</sub><sup>-</sup> species. Stable with most metals and inorganic anions. The phosphate is insoluble in water and only slightly soluble in acid.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO<sub>3</sub> / LDPE container.

**Al Containing Samples (Preparation and Solution)** -Metal (Best dissolved in HCl / HNO<sub>3</sub> ); a- Al<sub>2</sub>O<sub>3</sub> (Na<sub>2</sub>CO<sub>3</sub> fusion in PtO);

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.   | Order | Interferences (underlined indicates severe)                  |
|--------------------|------------------|-------|--|
| ICP-MS 27 amu      | 30 ppt           | N/A   | 12C15N, 13C14N,<br>1H12C14N,<br>11B16O,<br>54Cr2+,<br>54Fe2+ |
| ICP-OES 167.078 nm | 0.1/0.009 µg/mL  | 1     | Fe   |
| ICP-OES 394.401 nm | 0.05/0.006 µg/mL | 1     | U, Ce  |
| ICP-OES 396.152 nm | 0.03/0.006 µg/mL | 1     | Mo, Zr, Ce   |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

March 22, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **March 22, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Thomas Kozikowski  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGK10  
Lot Number: S2-K711973  
Matrix: 2% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Potassium  
Starting Material: KNO<sub>3</sub>  
Starting Material Lot#: 2313  
Starting Material Purity: 99.9971%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 9992 ± 30 µg/mL  
**Density:** 1.024 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |   |
|------------------------|---|
| <b>Assay Method #1</b> | <b>9987 ± 24 µg/mL</b><br>Gravimetric NIST SRM Lot Number: See Sec. 4.2 |
| <b>Assay Method #2</b> | <b>10004 ± 84 µg/mL</b><br>ICP Assay NIST SRM 3141a Lot Number: 140813  |
| <b>Assay Method #3</b> | <b>10007 ± 45 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.001400 | M Eu < 0.000660 | O Na < 0.246220 | M Se < 0.007900 | O Zn < 0.018056 |
| O Al < 0.001592 | O Fe < 0.005909 | M Nb < 0.000660 | O Si < 0.011490 | O Zr < 0.001600 |
| M As < 0.005300 | M Ga < 0.000660 | M Nd < 0.000660 | M Sm < 0.000660 |                 |
| M Au < 0.002000 | M Gd < 0.000660 | O Ni < 0.004900 | M Sn < 0.000660 |                 |
| O B < 0.005600  | M Ge < 0.002000 | M Os < 0.003300 | O Sr < 0.000055 |                 |
| O Ba < 0.000860 | M Hf < 0.000660 | O P < 0.032000  | M Ta < 0.000660 |                 |
| O Be < 0.000082 | M Hg < 0.002000 | M Pb < 0.002300 | M Tb < 0.000660 |                 |
| M Bi < 0.006600 | M Ho < 0.000660 | M Pd < 0.000660 | M Te < 0.017000 |                 |
| O Ca < 0.031187 | M In < 0.000660 | M Pr < 0.000660 | M Th < 0.000660 |                 |
| O Cd < 0.000450 | M Ir < 0.000660 | M Pt < 0.002700 | M Ti < 0.000660 |                 |
| M Ce < 0.000660 | s K <           | M Rb < 0.476026 | M Tl < 0.000660 |                 |
| O Co < 0.000780 | M La < 0.000660 | M Re < 0.000660 | M Tm < 0.000660 |                 |
| O Cr < 0.000541 | O Li < 0.000084 | M Rh < 0.000660 | M U < 0.000660  |                 |
| M Cs < 0.000660 | M Lu < 0.000660 | M Ru < 0.000660 | O V < 0.001100  |                 |
| M Cu < 0.002700 | O Mg < 0.006237 | O S < 0.027905  | M W < 0.000660  |                 |
| M Dy < 0.000660 | O Mn < 0.000476 | M Sb < 0.000660 | M Y < 0.000660  |                 |
| M Er < 0.000660 | M Mo < 0.000660 | O Sc < 0.000340 | O Yb < 0.000270 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 39.10 +1 (6) K+(aq)

**Chemical Compatibility** -Soluble in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub> and HF aqueous matrices. Avoid use of HClO<sub>4</sub> due to insolubility of the perchlorate. Stable with all metals and inorganic anions except ClO<sub>4</sub><sup>-</sup>.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO<sub>3</sub> / LDPE container.

**K Containing Samples (Preparation and Solution)** - Metal (Dissolves very rapidly in water); Ores (Sodium carbonate fusion in Pt0 followed by HCl dissolution-blank levels of K in sodium carbonate critical); Organic Matrices (Sulfuric/peroxide digestion )

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.    | Order | Interferences (underlined indicates severe)                  |
|--------------------|-------------------|-------|--|
| ICP-MS 39 amu      | 10 ppt            | n/a   | 38ArH, 23Na16O,<br>78Se                                      |
| ICP-OES 404.721 nm | 1.1 / 0.05 µg/mL  | 1     | U, Ce  |
| ICP-OES 766.490 nm | 0.4 / 0.001 µg/mL | 1     | 2nd order radiation<br>from R.E.s on some<br>optical designs |
| ICP-OES 771.531 nm | 1.0 / 0.03 µg/mL  | 1     | 2nd order radiation<br>from R.E.s on some<br>optical designs |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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**11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY**

**11.1 Certification Issue Date**

December 10, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **December 10, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**


- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Thomas Kozikowski  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director





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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGMG10  
Lot Number: S2-MG704239  
Matrix: 2% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Magnesium  
Starting Material: Magnesium Metal  
Starting Material Lot#: 2168  
Starting Material Purity: 99.9984%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10053 ± 30 µg/mL  
**Density:** 1.053 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |   |
|------------------------|---|
| <b>Assay Method #1</b> | <b>10022 ± 62 µg/mL</b><br>ICP Assay NIST SRM 3131a Lot Number: 140110  |
| <b>Assay Method #2</b> | <b>10078 ± 26 µg/mL</b><br>EDTA NIST SRM 928 Lot Number: 928            |
| <b>Assay Method #3</b> | <b>10033 ± 26 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|        |          |   |      |          |        |          |        |          |        |          |
|--------|----------|---|------|----------|--------|----------|--------|----------|--------|----------|
| O Ag   | 0.002106 | M | Eu < | 0.000910 | O Na   | 0.071075 | O Se < | 0.048000 | O Zn   | 0.003299 |
| M Al   | 0.003553 | M | Fe   | 0.002538 | M Nb < | 0.000460 | O Si < | 0.032000 | O Zr < | 0.002700 |
| M As < | 0.001400 | M | Ga < | 0.000460 | M Nd < | 0.000910 | M Sm < | 0.000460 |        |          |
| M Au < | 0.001400 | M | Gd < | 0.000460 | O Ni < | 0.001600 | M Sn < | 0.002300 |        |          |
| O B    | 0.006853 | M | Ge < | 0.001400 | M Os < | 0.000460 | O Sr   | 0.000279 |        |          |
| O Ba   | 0.000964 | M | Hf < | 0.000460 | O P    | 0.015230 | M Ta < | 0.000460 |        |          |
| O Be < | 0.000120 | M | Hg < | 0.000460 | M Pb < | 0.000460 | M Tb < | 0.000460 |        |          |
| M Bi < | 0.000460 | M | Ho < | 0.000460 | M Pd < | 0.003200 | M Te < | 0.007300 |        |          |
| O Ca   | 0.053306 | M | In < | 0.000460 | M Pr < | 0.000460 | M Th < | 0.000460 |        |          |
| O Cd < | 0.000360 | M | Ir < | 0.000460 | M Pt < | 0.001900 | O Ti < | 0.001700 |        |          |
| M Ce < | 0.002300 | M | K    | 0.048229 | M Rb   | 0.002411 | M Tl   | 0.003046 |        |          |
| M Co < | 0.000910 | M | La < | 0.002800 | M Re < | 0.000460 | M Tm < | 0.000460 |        |          |
| M Cr < | 0.002300 | O | Li   | 0.027922 | M Rh < | 0.000460 | M U <  | 0.000460 |        |          |
| M Cs   | 0.001040 | M | Lu < | 0.000460 | M Ru < | 0.000460 | M V <  | 0.000460 |        |          |
| O Cu < | 0.003000 | s | Mg < |          | O S <  | 0.190000 | M W <  | 0.000460 |        |          |
| M Dy < | 0.000460 | O | Mn   | 0.015230 | M Sb   | 0.020814 | O Y <  | 0.000720 |        |          |
| M Er < | 0.000460 | M | Mo < | 0.000910 | O Sc < | 0.000480 | M Yb < | 0.000460 |        |          |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 24.31 +2 6 Mg(H<sub>2</sub>O)<sub>6</sub>+2

**Chemical Compatibility** -Soluble in HCl, HNO<sub>3</sub>, and H<sub>2</sub>SO<sub>4</sub> avoid HF, H<sub>3</sub>PO<sub>4</sub> and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicates, carbonates, hydroxides, oxides, and tungstates in neutral and slightly acidic media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO<sub>3</sub> / LDPE container.

**Mg Containing Samples (Preparation and Solution)** -Metal (Best dissolved in diluted HNO<sub>3</sub> ); Oxide (Readily soluble in above compatible aqueous acidic solutions); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric / peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b>  | <b>Order</b> | <b>Interferences</b> (underlined indicates severe) |
|-----------------------|------------------------|--------------|--|
| ICP-MS 24 amu         | 42 ppt                 | n/a          | 7Li17O, 48Ti+2 ,<br>48Ca+2                         |
| ICP-OES 279.553 nm    | 0.0002 / 0.00003 µg/mL | 1            | Th   |
| ICP-OES 280.270 nm    | 0.0003 / 0.00005 µg/mL | 1            | U, V   |
| ICP-OES 285.213 nm    | 0.002 / 0.00003 µg/mL  | 1            | U, Hf, Cr, Zr                                      |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

April 23, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **April 23, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Director, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGCA10  
Lot Number: T2-CA716103  
Matrix: 2% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Calcium  
Starting Material: CaCO<sub>3</sub>  
Starting Material Lot#: 2472  
Starting Material Purity: 99.9950%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10005 ± 30 µg/mL  
**Density:** 1.039 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |   |
|------------------------|---|
| <b>Assay Method #1</b> | <b>10005 ± 45 µg/mL</b><br>ICP Assay NIST SRM 3109a Lot Number: 130213  |
| <b>Assay Method #2</b> | <b>10005 ± 25 µg/mL</b><br>EDTA NIST SRM 928 Lot Number: 928            |
| <b>Assay Method #3</b> | <b>10005 ± 31 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3  $\mu\text{m}$ .

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.001200 | M Eu < 0.001200 | O Na < 0.006112 | M Se < 0.024000 | M Zn < 0.005362 |
| M Al < 0.065419 | O Fe < 0.009115 | M Nb < 0.001200 | O Si < 0.139417 | O Zr < 0.006700 |
| O As < 0.013000 | M Ga < 0.015000 | M Nd < 0.020000 | M Sm < 0.001200 |                 |
| M Au < 0.017000 | M Gd < 0.004800 | O Ni < 0.000793 | M Sn < 0.003600 |                 |
| O B < 0.001179  | M Ge < 0.003600 | M Os < 0.001200 | M Sr < 0.081505 |                 |
| O Ba < 0.002788 | M Hf < 0.001200 | O P < 0.041000  | M Ta < 0.001200 |                 |
| O Be < 0.000410 | M Hg < 0.004800 | M Pb < 0.001608 | M Tb < 0.001200 |                 |
| M Bi < 0.001608 | M Ho < 0.001200 | M Pd < 0.001200 | M Te < 0.003600 |                 |
| s Ca <          | M In < 0.001200 | M Pr < 0.000257 | M Th < 0.001200 |                 |
| O Cd < 0.001300 | M Ir < 0.001200 | M Pt < 0.003600 | O Ti < 0.001900 |                 |
| M Ce < 0.001029 | O K < 0.009759  | M Rb < 0.001200 | M Tl < 0.001200 |                 |
| O Co < 0.000418 | M La < 0.001823 | M Re < 0.001200 | M Tm < 0.001200 |                 |
| O Cr < 0.003324 | O Li < 0.007300 | M Rh < 0.001200 | M U < 0.002144  |                 |
| M Cs < 0.007399 | M Lu < 0.000128 | M Ru < 0.001200 | M V < 0.001286  |                 |
| O Cu < 0.011000 | M Mg < 1.286934 | O S < 0.055767  | O W < 0.024000  |                 |
| M Dy < 0.002400 | O Mn < 0.004611 | M Sb < 0.009600 | O Y < 0.000536  |                 |
| M Er < 0.002400 | M Mo < 0.003539 | O Sc < 0.001400 | M Yb < 0.001200 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 40.08 +2 6 Ca(H<sub>2</sub>O)<sub>6</sub>+2

**Chemical Compatibility** - Soluble in HCl and HNO<sub>3</sub>. Avoid H<sub>2</sub>SO<sub>4</sub>, vF, v3PO<sub>4</sub> and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, and tungstate in neutral aqueous media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO<sub>3</sub> / LDPE container.

**Ca Containing Samples )Preparation and Solution** -Metal ( best dissolved in diluted HNO<sub>3</sub> ); Ores ( Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (dry ash and dissolution in dilute HCl. Do not heat when dissolving to avoid precipitation of SiO<sub>2</sub>). The oxide, hydroxide, carbonate, phosphate, and fluoride of calcium are soluble in % levels of HCl or HNO<sub>3</sub>. The sulfates (gypsum, anhydrite, etc.), certain silicates, and complex compounds require fusion with Na<sub>2</sub>CO<sub>3</sub> followed by HCl / water dissolution. Note that contamination is a very real problem when analyzing for trace levels.

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.         | Order | Interferences (underlined indicates severe)         |
|--------------------|------------------------|-------|---|
| ICP-MS 44 amu      | 1200 ppt               | n/a   | 16O <sup>2</sup> 12C,<br>28Si <sup>16</sup> O, 88Sr |
| ICP-OES 393.366 nm | 0.0002 / 0.00004 µg/mL | 1     | U, Ce   |
| ICP-OES 396.847 nm | 0.0005 / 0.00006 µg/mL | 1     | Th  |
| ICP-OES 422.673 nm | 0.01 / 0.001 µg/mL     | 1     | Ge  |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

**11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY**

**11.1 Certification Issue Date**

March 14, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **March 14, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**


- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Thomas Kozikowski  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director





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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGNA10  
Lot Number: T2-NA717221  
Matrix: 2% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Sodium  
Starting Material: Na<sub>2</sub>CO<sub>3</sub>  
Starting Material Lot#: 2358 and 2453  
Starting Material Purity: 99.9977%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 9977 ± 30 µg/mL  
**Density:** 1.033 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |   |
|------------------------|---|
| <b>Assay Method #1</b> | <b>9974 ± 18 µg/mL</b><br>Gravimetric NIST SRM Lot Number: See Sec. 4.2 |
| <b>Assay Method #2</b> | <b>9977 ± 34 µg/mL</b><br>ICP Assay NIST SRM 3152a Lot Number: 200413   |
| <b>Assay Method #3</b> | <b>9987 ± 31 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2  |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3  $\mu\text{m}$ .

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000930 | M Eu < 0.000930 | s Na <          | M Se < 0.003800 | O Zn < 0.000138 |
| M Al < 0.004409 | O Fe < 0.002393 | M Nb < 0.000930 | O Si < 0.056696 | O Zr < 0.003200 |
| O As < 0.023000 | M Ga < 0.000930 | M Nd < 0.000930 | M Sm < 0.000930 |                 |
| O Au < 0.004100 | M Gd < 0.000930 | O Ni < 0.003000 | M Sn < 0.002800 |                 |
| O B < 0.001385  | M Ge < 0.004700 | M Os < 0.000930 | O Sr < 0.000251 |                 |
| M Ba < 0.004031 | M Hf < 0.000930 | O P < 0.010205  | M Ta < 0.000930 |                 |
| O Be < 0.000130 | M Hg < 0.000930 | M Pb < 0.000930 | M Tb < 0.000930 |                 |
| M Bi < 0.000930 | M Ho < 0.000930 | M Pd < 0.000930 | M Te < 0.001900 |                 |
| O Ca < 0.176388 | M In < 0.000930 | M Pr < 0.000930 | M Th < 0.000352 |                 |
| O Cd < 0.000860 | M Ir < 0.000930 | M Pt < 0.000930 | O Ti < 0.000592 |                 |
| M Ce < 0.001900 | O K < 0.302380  | M Rb < 0.000930 | M Tl < 0.000930 |                 |
| O Co < 0.001800 | O La < 0.002100 | M Re < 0.000930 | M Tm < 0.000930 |                 |
| M Cr < 0.002800 | O Li < 0.000031 | M Rh < 0.000930 | M U < 0.000930  |                 |
| M Cs < 0.000930 | M Lu < 0.000930 | M Ru < 0.001900 | O V < 0.001600  |                 |
| O Cu < 0.003900 | O Mg < 0.026458 | O S < 0.040317  | O W < 0.028000  |                 |
| M Dy < 0.000930 | O Mn < 0.000740 | M Sb < 0.000930 | O Y < 0.000860  |                 |
| M Er < 0.000930 | O Mo < 0.003600 | O Sc < 0.000610 | O Yb < 0.000250 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 22.99 +1 (6) Na+(aq) largely ionic in nature

**Chemical Compatibility** -Soluble in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub> and HF aqueous matrices. Stable with all metals and inorganic anions.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO<sub>3</sub> / LDPE container.

**Na Containing Samples (Preparation and Solution)** - Metal (Dissolves very rapidly in water); Ores (Lithium carbonate fusion in graphite crucible followed by HCl dissolution - blank levels of Na in lithium carbonate critical); Organic Matrices (Sulfuric / peroxide digestion or nitric/sulfuric/perchloric acid decomposition).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences</b> (underlined indicates severe)     |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 23 amu         | 310 ppt               | n/a          | 46Ti+2 , 46Ca+2  |
| ICP-OES 330.237 nm    | 2.0 / 0.09 µg/mL      | 1            | Pd, Zn   |
| ICP-OES 588.995 nm    | 0.03 / 0.006 µg/mL    | 1            | 2nd order radiation from R.E.s on some optical designs |
| ICP-OES 589.595 nm    | 0.07 / 0.00009 µg/mL  | 1            | 2nd order radiation from R.E.s on some optical designs |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

**11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY**

**11.1 Certification Issue Date**

April 20, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **April 20, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Thomas Kozikowski  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGU1  
Lot Number: S2-U707914  
Matrix: 2% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 1 000 µg/mL ea:  
Uranium  
Starting Material: Uranyl Nitrate Hexahydrate  
Starting Material Lot#: P2-2322  
Starting Material Purity: 99.9997%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 999 ± 5 µg/mL  
**Density:** 1.010 g/mL (measured at 20 ± 4 °C)

### Assay Information:

**Assay Method #1**      **998 ± 5 µg/mL**  
ICP Assay NIST SRM 3164 Lot Number: 080521

**Assay Method #2**      **1001 ± 6 µg/mL**  
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char}$  =  $[\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Certified Abundance:

#### IV's Certified Abundance

| Isotope      | Atom %      |
|--------------|-------------|
| Uranium 238U | 99.8 ± 0.1  |
| Uranium 235U | 0.19 ± 0.05 |

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000270 | M Eu < 0.000270 | M Na < 0.011000 | M Se < 0.009300 | M Zn < 0.002358 |
| M Al < 0.011000 | M Fe < 0.003222 | M Nb < 0.000270 | M Si < 0.160000 | M Zr < 0.001100 |
| M As < 0.002400 | M Ga < 0.000270 | M Nd < 0.000270 | M Sm < 0.000270 |                 |
| M Au < 0.000270 | M Gd < 0.000270 | M Ni < 0.020000 | M Sn < 0.011000 |                 |
| M B < 0.000270  | M Ge < 0.000800 | M Os < 0.001900 | M Sr < 0.000270 |                 |
| M Ba < 0.003800 | M Hf < 0.000270 | i P <           | M Ta < 0.000270 |                 |
| M Be < 0.000270 | M Hg < 0.000540 | M Pb < 0.002200 | M Tb < 0.000270 |                 |
| M Bi < 0.000270 | M Ho < 0.000270 | M Pd < 0.000540 | M Te < 0.003800 |                 |
| M Ca < 0.140000 | M In < 0.000270 | M Pr < 0.000270 | M Th < 0.000129 |                 |
| M Cd < 0.000270 | M Ir < 0.000270 | M Pt < 0.000270 | M Ti < 0.002700 |                 |
| M Ce < 0.000540 | O K < 0.250000  | M Rb < 0.000800 | M Tl < 0.000270 |                 |
| M Co < 0.000800 | M La < 0.000117 | M Re < 0.064000 | M Tm < 0.000270 |                 |
| M Cr < 0.000943 | M Li < 0.003000 | M Rh < 0.000270 | s U <           |                 |
| M Cs < 0.000106 | M Lu < 0.000270 | M Ru < 0.000540 | M V < 0.000540  |                 |
| M Cu < 0.001100 | M Mg < 0.003000 | i S <           | M W < 0.000540  |                 |
| M Dy < 0.000270 | M Mn < 0.006900 | M Sb < 0.000270 | M Y < 0.000270  |                 |
| M Er < 0.000270 | M Mo < 0.006400 | M Sc < 0.000540 | M Yb < 0.000270 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 238.03 +6 8 UO<sub>2</sub><sup>2+</sup>(uranyl)

**Chemical Compatibility** - Soluble in HCl and HNO<sub>3</sub>. Avoid H<sub>3</sub>PO<sub>4</sub>. H<sub>2</sub>SO<sub>4</sub> and HF matrices should not be a problem depending upon [U]. Although the UO<sub>2</sub><sup>2+</sup> ion is distinctly basic, any U+4 will precipitate in basic media. UO<sub>2</sub><sup>2+</sup>salts are generally soluble in water and UO<sub>2</sub><sup>2+</sup> is stable with most metals and inorganic anions. The uranyl phosphate is insoluble in water. UF<sub>4</sub> and UF<sub>6</sub> are water soluble.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO<sub>3</sub> / LDPE container.

**U Containing Samples (Preparation and Solution)** -Metal (Dissolves rapidly in HCl and HNO<sub>3</sub>); Oxide (Soluble in HNO<sub>3</sub>); Ores (Digest for 1-2 hours with 1 gram of ore to 30 mL 1:1 HNO<sub>3</sub>. Silica insolubles are removed by filtration after bringing the sample to fumes with conc. H<sub>2</sub>SO<sub>4</sub>.)

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.   | Order | Interferences (underlined indicates severe)            |
|--------------------|------------------|-------|--|
| ICP-MS 238 amu     | 2 ppt            | N/A   | 206Pb16O2  |
| ICP-OES 263.553 nm | 0.3 / 0.01 µg/mL | 1     | Ce, Ir, Th, Rh, W, Zr,<br>Ta, Ti, V, Hf, Fe, Re,<br>Ru |
| ICP-OES 367.007 nm | 0.3 / 0.02 µg/mL | 1     | Th, Ce   |
| ICP-OES 385.958 nm | 0.3 / 0.01 µg/mL | 1     | Th, Fe   |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

**10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"**

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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**11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY**

**11.1 Certification Issue Date**

August 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **August 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Director, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director





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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution  
Catalog Number: AR-ICVMS-2  
Lot Number: T2-MEB719895  
Matrix: 3% (v/v) HNO3  
tr. HF  
Value / Analyte(s): 2.5 µg/mL ea:  
Molybdenum, Antimony

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE      | CERTIFIED VALUE     | ANALYTE        | CERTIFIED VALUE     |
|--------------|---------------------|----------------|---------------------|
| Antimony, Sb | 2.499 ± 0.015 µg/mL | Molybdenum, Mo | 2.500 ± 0.017 µg/mL |

Density: 1.014 g/mL (measured at 20 ± 4 °C)

### Assay Information:

| ANALYTE | METHOD     | NIST SRM# | SRM LOT#     |
|---------|------------|-----------|--------------|
| Mo      | ICP Assay  | 3134      | 130418       |
| Mo      | Calculated |           | See Sec. 4.2 |
| Sb      | ICP Assay  | 3102a     | 140911       |
| Sb      | Calculated |           | See Sec. 4.2 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

#### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method i with standard uncertainty  $u_{char i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum((w_i)^2 (u_{char i})^2)]^{1/2}$  where  $u_{char i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

#### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

$X_a$  = mean of Assay Method A with

$u_{char a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

#### 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

##### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

##### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

##### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

#### 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

#### 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

#### 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

##### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**HF Note:** This standard should not be prepared or stored in glass.

#### 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

#### 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

#### 10.0 QUALITY STANDARD DOCUMENTATION

##### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

##### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

**10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"**

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

**11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY**

**11.1 Certification Issue Date**

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Thomas Kozikowski  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



300 Technology Drive  
Christiansburg, VA 24073 USA  
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info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

|                     |                                     |            |
|---------------------|-------------------------------------|------------|
| Product Code:       | Multi Analyte Custom Grade Solution |            |
| Catalog Number:     | AR-ICVMS-3                          |            |
| Lot Number:         | T2-MEB719896                        |            |
| Matrix:             | 7% (v/v) HNO3                       |            |
| Value / Analyte(s): | 250 µg/mL ea:                       |            |
|                     | Aluminum,                           | Calcium,   |
|                     | Iron,                               | Potassium, |
|                     | Magnesium,                          | Sodium,    |
|                     | 4 µg/mL ea:                         |            |
|                     | Selenium,                           |            |
|                     | 2.5 µg/mL ea:                       |            |
|                     | Thorium,                            | Thallium,  |
|                     | Uranium,                            | Vanadium,  |
|                     | Zinc,                               | Manganese, |
|                     | Cadmium,                            | Cobalt,    |
|                     | Chromium,                           | Copper,    |
|                     | Arsenic,                            | Barium,    |
|                     | Beryllium,                          | Nickel,    |
|                     | Lead,                               | Silver     |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| <b>ANALYTE</b> | <b>CERTIFIED VALUE</b> | <b>ANALYTE</b> | <b>CERTIFIED VALUE</b> |
|----------------|------------------------|----------------|------------------------|
| Aluminum, Al   | 250.0 ± 0.9 µg/mL      | Arsenic, As    | 2.500 ± 0.018 µg/mL    |
| Barium, Ba     | 2.501 ± 0.013 µg/mL    | Beryllium, Be  | 2.501 ± 0.015 µg/mL    |
| Cadmium, Cd    | 2.501 ± 0.013 µg/mL    | Calcium, Ca    | 250.0 ± 1.3 µg/mL      |
| Chromium, Cr   | 2.500 ± 0.015 µg/mL    | Cobalt, Co     | 2.500 ± 0.014 µg/mL    |
| Copper, Cu     | 2.500 ± 0.014 µg/mL    | Iron, Fe       | 250.0 ± 1.0 µg/mL      |
| Lead, Pb       | 2.500 ± 0.013 µg/mL    | Magnesium, Mg  | 250.0 ± 1.3 µg/mL      |
| Manganese, Mn  | 2.500 ± 0.014 µg/mL    | Nickel, Ni     | 2.500 ± 0.014 µg/mL    |
| Potassium, K   | 250.0 ± 1.2 µg/mL      | Selenium, Se   | 4.002 ± 0.024 µg/mL    |
| Silver, Ag     | 2.501 ± 0.017 µg/mL    | Sodium, Na     | 250.0 ± 1.2 µg/mL      |
| Thallium, Tl   | 2.500 ± 0.017 µg/mL    | Thorium, Th    | 2.499 ± 0.013 µg/mL    |
| Uranium, U     | 2.501 ± 0.015 µg/mL    | Vanadium, V    | 2.500 ± 0.014 µg/mL    |
| Zinc, Zn       | 2.500 ± 0.014 µg/mL    |                |                        |

**Density:** 1.042 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| ANALYTE | METHOD      | NIST SRM# | SRM LOT#     |
|---------|-------------|-----------|--------------|
| Ag      | ICP Assay   | 3151      | 160729       |
| Ag      | Volhard     | 999c      | 999c         |
| Ag      | Calculated  |           | See Sec. 4.2 |
| Al      | ICP Assay   | 3101a     | 140903       |
| Al      | EDTA        | 928       | 928          |
| As      | ICP Assay   | 3103a     | 100818       |
| Ba      | ICP Assay   | 3104a     | 140909       |
| Ba      | Calculated  |           | See Sec. 4.2 |
| Ba      | Gravimetric |           | See Sec. 4.2 |
| Be      | ICP Assay   | 3105a     | 090514       |
| Be      | Calculated  |           | See Sec. 4.2 |
| Ca      | ICP Assay   | 3109a     | 130213       |
| Ca      | EDTA        | 928       | 928          |
| Cd      | ICP Assay   | 3108      | 130116       |
| Cd      | EDTA        | 928       | 928          |
| Cd      | Calculated  |           | See Sec. 4.2 |
| Co      | ICP Assay   | 3113      | 190630       |
| Co      | EDTA        | 928       | 928          |
| Co      | Calculated  |           | See Sec. 4.2 |
| Cr      | ICP Assay   | 3112a     | 170630       |
| Cr      | Calculated  |           | See Sec. 4.2 |
| Cu      | ICP Assay   | 3114      | 121207       |
| Cu      | EDTA        | 928       | 928          |
| Cu      | Calculated  |           | See Sec. 4.2 |
| Fe      | ICP Assay   | 3126a     | 140812       |
| Fe      | EDTA        | 928       | 928          |
| K       | ICP Assay   | 3141a     | 140813       |
| K       | Gravimetric |           | See Sec. 4.2 |
| Mg      | ICP Assay   | 3131a     | 140110       |
| Mg      | EDTA        | 928       | 928          |
| Mn      | ICP Assay   | 3132      | 050429       |
| Mn      | EDTA        | 928       | 928          |
| Mn      | Calculated  |           | See Sec. 4.2 |
| Na      | ICP Assay   | 3152a     | 120715       |
| Na      | Gravimetric |           | See Sec. 4.2 |
| Ni      | ICP Assay   | 3136      | 120619       |
| Ni      | EDTA        | 928       | 928          |
| Ni      | Calculated  |           | See Sec. 4.2 |
| Pb      | ICP Assay   | 3128      | 101026       |
| Pb      | EDTA        | 928       | 928          |
| Pb      | Calculated  |           | See Sec. 4.2 |
| Se      | ICP Assay   | 3149      | 100901       |
| Se      | Calculated  |           | See Sec. 4.2 |
| Th      | EDTA        | 928       | 928          |
| Th      | Calculated  |           | See Sec. 4.2 |
| Tl      | ICP Assay   | 3158      | 151215       |
| Tl      | Calculated  |           | See Sec. 4.2 |
| U       | ICP Assay   | 3164      | 080521       |
| U       | Calculated  |           | See Sec. 4.2 |

|    |            |       |              |
|----|------------|-------|--------------|
| V  | ICP Assay  | 3165  | 160906       |
| V  | EDTA       | 928   | 928          |
| Zn | ICP Assay  | 3168a | 120629       |
| Zn | EDTA       | 928   | 928          |
| Zn | Calculated |       | See Sec. 4.2 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

#### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{\text{CRM/RM}}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum(w_i) (X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{\text{char } i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum(1/(u_{\text{char } j}^2)))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{\text{char}} = [\sum(w_i)^2 (u_{\text{char } i}^2)]^{1/2}$  where  $u_{\text{char } i}$  are the errors from each characterization method

$u_{\text{bb}}$  = bottle to bottle homogeneity standard uncertainty

$u_{\text{Its}}$  = long term stability standard uncertainty (storage)

$u_{\text{ts}}$  = transport stability standard uncertainty

#### Characterization of CRM/RM by One Method

Certified Value,  $X_{\text{CRM/RM}}$ , where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

$X_a$  = mean of Assay Method A with

$u_{\text{char } a}$  = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{\text{char } a}$  = the errors from characterization

$u_{\text{bb}}$  = bottle to bottle homogeneity standard uncertainty

$u_{\text{Its}}$  = long term stability standard uncertainty (storage)

$u_{\text{ts}}$  = transport stability standard uncertainty

#### Certified Abundance:

##### IV's Certified Abundance

| <u>Isotope</u> | <u>Atom %</u> |
|----------------|---------------|
| Uranium 238U   | 99.8 ± 0.1    |
| Uranium 235U   | 0.19 ± 0.05   |

#### 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

##### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

##### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

##### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

#### 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

#### 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

#### 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

##### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Note:** This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

<https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver>

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

### 11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.



**11.3 Period of Validity**

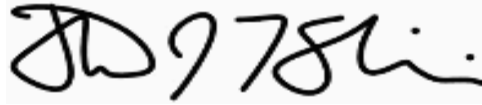
- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Thomas Kozikowski  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



300 Technology Drive  
Christiansburg, VA 24073 USA  
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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution  
 Catalog Number: AR-6020ICS-0A10  
 Lot Number: T2-MEB719898  
 Matrix: 1.4% (v/v) HNO<sub>3</sub>  
 Value / Analyte(s):  
 1 000 µg/mL ea:  
 Chloride,  
 200 µg/mL ea:  
 Carbon,  
 100 µg/mL ea:  
 Calcium, Aluminum,  
 Iron, Potassium,  
 Magnesium, Sodium,  
 Phosphorus, Sulfur,  
 2 µg/mL ea:  
 Titanium, Molybdenum

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE        | CERTIFIED VALUE     | ANALYTE       | CERTIFIED VALUE     |
|----------------|---------------------|---------------|---------------------|
| Aluminum, Al   | 100.0 ± 0.4 µg/mL   | Calcium, Ca   | 100.0 ± 0.5 µg/mL   |
| Carbon, C      | 200.1 ± 0.5 µg/mL   | Chloride, Cl  | 1 000 ± 5 µg/mL     |
| Iron, Fe       | 100.0 ± 0.5 µg/mL   | Magnesium, Mg | 100.0 ± 0.5 µg/mL   |
| Molybdenum, Mo | 2.001 ± 0.014 µg/mL | Phosphorus, P | 100.0 ± 0.6 µg/mL   |
| Potassium, K   | 100.0 ± 0.5 µg/mL   | Sodium, Na    | 100.0 ± 0.5 µg/mL   |
| Sulfur, S      | 100.0 ± 0.5 µg/mL   | Titanium, Ti  | 2.001 ± 0.015 µg/mL |

**Density:** 1.009 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| ANALYTE | METHOD      | NIST SRM#         | SRM LOT#     |
|---------|-------------|-------------------|--------------|
| Al      | ICP Assay   | 3101a             | 140903       |
| Al      | EDTA        | 928               | 928          |
| C       | Acidimetric | 84L               | 84L          |
| Ca      | ICP Assay   | 3109a             | 130213       |
| Ca      | EDTA        | 928               | 928          |
| Cl      | Acidimetric | 84L               | 84L          |
| Fe      | ICP Assay   | 3126a             | 140812       |
| Fe      | EDTA        | 928               | 928          |
| K       | ICP Assay   | 3141a             | 140813       |
| K       | Gravimetric |                   | See Sec. 4.2 |
| Mg      | ICP Assay   | 3131a             | 140110       |
| Mg      | EDTA        | 928               | 928          |
| Mo      | ICP Assay   | 3134              | 130418       |
| Na      | ICP Assay   | 3152a             | 120715       |
| Na      | Gravimetric |                   | See Sec. 4.2 |
| P       | ICP Assay   | 3139a             | 060717       |
| P       | Acidimetric | 84L               | 84L          |
| S       | Acidimetric | 84L               | 84L          |
| S       | ICP Assay   | traceable to 3154 | P2-S680745   |
| Ti      | ICP Assay   | 3162a             | 130925       |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

#### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{\text{CRM/RM}}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum(w_i) (X_i)$$

$X_i$  = mean of Assay Method i with standard uncertainty  $u_{\text{char } i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum(1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum(w_i)^2 (u_{\text{char } i}^2)]^{1/2}$  where  $u_{\text{char } i}$  are the errors from each characterization method

$u_{\text{bb}}$  = bottle to bottle homogeneity standard uncertainty

$u_{\text{Its}}$  = long term stability standard uncertainty (storage)

$u_{\text{ts}}$  = transport stability standard uncertainty

#### Characterization of CRM/RM by One Method

Certified Value,  $X_{\text{CRM/RM}}$ , where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

$X_a$  = mean of Assay Method A with

$u_{\text{char } a}$  = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$  = the errors from characterization

$u_{\text{bb}}$  = bottle to bottle homogeneity standard uncertainty

$u_{\text{Its}}$  = long term stability standard uncertainty (storage)

$u_{\text{ts}}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

N/A

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

June 07, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

### 11.2 Lot Expiration Date

- **June 07, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Thomas Kozikowski  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director





**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B UCT-KED**  
Total Metals

|              |
|--------------|
| LDW23-SS1277 |
|--------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-01 D      SDG: 23A0179  
 Sampled: 01/10/23 08:24      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-046  
 % Solids: 56.80      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 18:05  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.043 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|---------|---------------------------|-----------------|------|------|---|
| 7440-38-2 | Arsenic | 8.96                      | 20              | 0.06 | 0.34 |   |
| 7440-43-9 | Cadmium | 0.21                      | 20              | 0.05 | 0.17 |   |
| 7440-50-8 | Copper  | 39.5                      | 20              | 0.29 | 0.84 |   |
| 7440-66-6 | Zinc    | 80.6                      | 20              | 4.9  | 10.1 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B UCT-KED**  
Total Metals

|              |
|--------------|
| LDW23-SS1271 |
|--------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-02 D      SDG: 23A0179  
 Sampled: 01/10/23 08:43      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-066  
 % Solids: 64.44      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 19:47  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.059 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|---------|---------------------------|-----------------|------|------|---|
| 7440-38-2 | Arsenic | 6.11                      | 20              | 0.06 | 0.29 |   |
| 7440-43-9 | Cadmium | 0.18                      | 20              | 0.04 | 0.15 |   |
| 7440-50-8 | Copper  | 31.6                      | 20              | 0.25 | 0.73 |   |
| 7440-66-6 | Zinc    | 70.6                      | 20              | 4.3  | 8.8  |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B UCT-KED**  
Total Metals

|              |
|--------------|
| LDW23-SS1266 |
|--------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-03 D      SDG: 23A0179  
 Sampled: 01/10/23 09:04      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-067  
 % Solids: 55.75      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 19:52  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.031 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|---------|---------------------------|-----------------|------|------|---|
| 7440-38-2 | Arsenic | 11.4                      | 20              | 0.07 | 0.35 |   |
| 7440-43-9 | Cadmium | 0.25                      | 20              | 0.05 | 0.17 |   |
| 7440-50-8 | Copper  | 42.2                      | 20              | 0.30 | 0.87 |   |
| 7440-66-6 | Zinc    | 86.2                      | 20              | 5.1  | 10.4 |   |





**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B UCT-KED**  
Total Metals

|              |
|--------------|
| LDW23-SS1248 |
|--------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-04 D      SDG: 23A0179  
 Sampled: 01/10/23 09:20      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-068  
 % Solids: 54.20      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 19:57  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.052 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|---------|---------------------------|-----------------|------|------|---|
| 7440-38-2 | Arsenic | 8.51                      | 20              | 0.07 | 0.35 |   |
| 7440-43-9 | Cadmium | 0.24                      | 20              | 0.05 | 0.18 |   |
| 7440-50-8 | Copper  | 40.7                      | 20              | 0.31 | 0.88 |   |
| 7440-66-6 | Zinc    | 83.4                      | 20              | 5.1  | 10.5 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B UCT-KED**  
Total Metals

|                     |
|---------------------|
| <b>LDW23-SS1239</b> |
|---------------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-05 D      SDG: 23A0179  
 Sampled: 01/10/23 09:35      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-069  
 % Solids: 65.08      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 20:01  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.041 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|---------|---------------------------|-----------------|------|------|---|
| 7440-38-2 | Arsenic | 6.49                      | 20              | 0.06 | 0.30 |   |
| 7440-43-9 | Cadmium | 0.14                      | 20              | 0.04 | 0.15 | J |
| 7440-50-8 | Copper  | 41.0                      | 20              | 0.26 | 0.74 |   |
| 7440-66-6 | Zinc    | 51.8                      | 20              | 4.3  | 8.9  |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B UCT-KED**  
Total Metals

|              |
|--------------|
| LDW23-SS1213 |
|--------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-06 D      SDG: 23A0179  
 Sampled: 01/10/23 09:54      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-070  
 % Solids: 50.11      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 20:06  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.081 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|---------|---------------------------|-----------------|------|------|---|
| 7440-38-2 | Arsenic | 9.64                      | 20              | 0.07 | 0.37 |   |
| 7440-43-9 | Cadmium | 0.29                      | 20              | 0.06 | 0.18 |   |
| 7440-50-8 | Copper  | 49.8                      | 20              | 0.32 | 0.92 |   |
| 7440-66-6 | Zinc    | 125                       | 20              | 5.4  | 11.1 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B UCT-KED**  
Total Metals

|                     |
|---------------------|
| <b>LDW23-SS1200</b> |
|---------------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-07 D      SDG: 23A0179  
 Sampled: 01/10/23 10:10      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-071  
 % Solids: 67.54      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 20:11  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.008 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|---------|---------------------------|-----------------|------|------|---|
| 7440-38-2 | Arsenic | 5.42                      | 20              | 0.06 | 0.29 |   |
| 7440-43-9 | Cadmium | 0.08                      | 20              | 0.04 | 0.15 | J |
| 7440-50-8 | Copper  | 22.1                      | 20              | 0.26 | 0.73 |   |
| 7440-66-6 | Zinc    | 42.3                      | 20              | 4.3  | 8.8  |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B UCT-KED**  
Total Metals

|              |
|--------------|
| LDW23-SS1178 |
|--------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-08 D      SDG: 23A0179  
 Sampled: 01/10/23 10:56      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-072  
 % Solids: 59.76      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 20:16  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.05 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|---------|---------------------------|-----------------|------|------|---|
| 7440-38-2 | Arsenic | 7.87                      | 20              | 0.06 | 0.32 |   |
| 7440-43-9 | Cadmium | 0.21                      | 20              | 0.05 | 0.16 |   |
| 7440-50-8 | Copper  | 32.7                      | 20              | 0.28 | 0.80 |   |
| 7440-66-6 | Zinc    | 71.6                      | 20              | 4.7  | 9.6  |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B UCT-KED**  
Total Metals

|              |
|--------------|
| LDW23-SS1171 |
|--------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-09 D      SDG: 23A0179  
 Sampled: 01/10/23 11:08      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-073  
 % Solids: 50.25      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 20:20  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.062 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|---------|---------------------------|-----------------|------|------|---|
| 7440-38-2 | Arsenic | 12.5                      | 20              | 0.07 | 0.37 |   |
| 7440-43-9 | Cadmium | 0.26                      | 20              | 0.06 | 0.19 |   |
| 7440-50-8 | Copper  | 47.0                      | 20              | 0.33 | 0.94 |   |
| 7440-66-6 | Zinc    | 97.9                      | 20              | 5.5  | 11.2 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B UCT-KED**  
Total Metals

|              |
|--------------|
| LDW23-SS1112 |
|--------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-10 D      SDG: 23A0179  
 Sampled: 01/10/23 11:28      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-074  
 % Solids: 45.71      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 20:25  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.005 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|---------|---------------------------|-----------------|------|------|---|
| 7440-38-2 | Arsenic | 14.7                      | 20              | 0.08 | 0.44 |   |
| 7440-43-9 | Cadmium | 0.39                      | 20              | 0.07 | 0.22 |   |
| 7440-50-8 | Copper  | 60.1                      | 20              | 0.38 | 1.09 |   |
| 7440-66-6 | Zinc    | 118                       | 20              | 6.4  | 13.1 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B UCT-KED**  
Total Metals

|                     |
|---------------------|
| <b>LDW23-SS1039</b> |
|---------------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-11 D      SDG: 23A0179  
 Sampled: 01/10/23 11:56      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-078  
 % Solids: 46.16      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 20:47  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.063 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|---------|---------------------------|-----------------|------|------|---|
| 7440-38-2 | Arsenic | 12.3                      | 20              | 0.08 | 0.41 |   |
| 7440-43-9 | Cadmium | 0.34                      | 20              | 0.06 | 0.20 |   |
| 7440-50-8 | Copper  | 59.0                      | 20              | 0.35 | 1.02 |   |
| 7440-66-6 | Zinc    | 110                       | 20              | 6.0  | 12.2 |   |





**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 6020B UCT-KED**  
Total Metals

|              |
|--------------|
| LDW23-SS1007 |
|--------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-12 D      SDG: 23A0179  
 Sampled: 01/10/23 12:48      Prepared: 04/06/23 15:35      File ID: XDT\_m2230407-079  
 % Solids: 46.07      Preparation: SWN EPA 3050B      Analyzed: 04/07/23 20:51  
 Batch: BLD0055      Sequence: SLD0127      Initial/Final: 1.013 g Wet / 50 mL  
 Instrument: ICPMS2      Calibration: GD00024

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL  | MRL  | Q |
|-----------|---------|---------------------------|-----------------|------|------|---|
| 7440-38-2 | Arsenic | 11.3                      | 20              | 0.08 | 0.43 |   |
| 7440-43-9 | Cadmium | 0.33                      | 20              | 0.06 | 0.21 |   |
| 7440-50-8 | Copper  | 54.3                      | 20              | 0.37 | 1.07 |   |
| 7440-66-6 | Zinc    | 106                       | 20              | 6.3  | 12.9 |   |



**PREPARATION BATCH SUMMARY**  
**EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC SDG: 23A0179  
Client: Anchor QEA, LLC Project: AOC5 MR Phase 1  
Batch: BLD0055 Batch Matrix: Solid Preparation: SWN EPA 3050B

| SAMPLE NAME  | LAB SAMPLE ID | LAB FILE ID      | DATE PREPARED  | OBSERVATIONS |
|--------------|---------------|------------------|----------------|--------------|
| LDW23-SS1277 | 23A0179-01    | XDT_m2230407-046 | 04/06/23 15:35 |              |
| LDW23-SS1271 | 23A0179-02    | XDT_m2230407-066 | 04/06/23 15:35 |              |
| LDW23-SS1266 | 23A0179-03    | XDT_m2230407-067 | 04/06/23 15:35 |              |
| LDW23-SS1248 | 23A0179-04    | XDT_m2230407-068 | 04/06/23 15:35 |              |
| LDW23-SS1239 | 23A0179-05    | XDT_m2230407-069 | 04/06/23 15:35 |              |
| LDW23-SS1213 | 23A0179-06    | XDT_m2230407-070 | 04/06/23 15:35 |              |
| LDW23-SS1200 | 23A0179-07    | XDT_m2230407-071 | 04/06/23 15:35 |              |
| LDW23-SS1178 | 23A0179-08    | XDT_m2230407-072 | 04/06/23 15:35 |              |
| LDW23-SS1171 | 23A0179-09    | XDT_m2230407-073 | 04/06/23 15:35 |              |
| LDW23-SS1112 | 23A0179-10    | XDT_m2230407-074 | 04/06/23 15:35 |              |
| LDW23-SS1039 | 23A0179-11    | XDT_m2230407-078 | 04/06/23 15:35 |              |
| LDW23-SS1007 | 23A0179-12    | XDT_m2230407-079 | 04/06/23 15:35 |              |
| Blank        | BLD0055-BLK1  | XDT_m2230407-042 | 04/06/23 15:35 |              |
| LCS          | BLD0055-BS1   | XDT_m2230407-043 | 04/06/23 15:35 |              |
| LDW23-SS1277 | BLD0055-DUP1  | XDT_m2230407-047 | 04/06/23 15:35 |              |
| LDW23-SS1277 | BLD0055-MS1   | XDT_m2230407-048 | 04/06/23 15:35 |              |
| LDW23-SS1277 | BLD0055-MSD1  | XDT_m2230407-049 | 04/06/23 15:35 |              |



### Digestion Log

Analyst: AR Date: 04/06/23 Time: 1010-1535 Balance ID: BALLO  
 Matrix: SOIL Block ID: 16 Block Temp: 96C Thermometer: 20-4

| ARI Sample ID | Btl # | pH<2 | Prep Code: <u>SWN</u>      |                | Prep Code:                 |                | Comments  |
|---------------|-------|------|----------------------------|----------------|----------------------------|----------------|-----------|
|               |       |      | Initial Wt (g)<br>Vol (mL) | Final Vol (mL) | Initial Wt (g)<br>Vol (mL) | Final Vol (mL) |           |
| 23A158-14     | D     |      | 1.025                      | 50             |                            |                |           |
| ↓ -15         |       |      | 1.050                      |                |                            |                |           |
| ↓ -16         |       |      | 1.063                      |                |                            |                |           |
| 23A179-01     |       |      | 1.043                      |                |                            |                |           |
| ↓ -02         |       |      | 1.059                      |                |                            |                |           |
| ↓ -03         |       |      | 1.031                      |                |                            |                |           |
| ↓ -04         |       |      | 1.052                      |                |                            |                |           |
| ↓ -05         |       |      | 1.041                      |                |                            |                |           |
| ↓ -06         |       |      | 1.081                      |                |                            |                |           |
| ↓ -07         |       |      | 1.008                      |                |                            |                |           |
| ↓ -08         |       |      | 1.050                      |                |                            |                |           |
| ↓ -09         |       |      | 1.062                      |                |                            |                |           |
| ↓ -10         |       |      | 1.005                      |                |                            |                |           |
| ↓ -11         |       |      | 1.063                      |                |                            |                |           |
| ↓ -12         |       |      | 1.013                      |                |                            |                |           |
| 23A180-01     |       |      | 1.031                      |                |                            |                |           |
| ↓ -02         |       |      | 1.076                      |                |                            |                |           |
| ↓ -03         |       |      | 1.024                      |                |                            |                |           |
| ↓ -04         | ✓     |      | 1.095                      |                |                            |                |           |
| BLD55-blk     | ←     |      | —                          |                |                            |                | 23A179-01 |
| ↓ -05         | ←     |      | —                          |                |                            |                | ↓         |
| ↓ -06         | ←     |      | 1.048                      |                |                            |                |           |
| ↓ -MS         | ←     |      | 1.0416                     |                |                            |                |           |
| ↓ -MSD        | ←     |      | 1.043                      | ↓              |                            |                | ↓         |
| —             | —     | —    | —                          | —              | —                          | —              | —         |
| —             | —     | —    | —                          | —              | —                          | —              | —         |

Chemical/Reagent ID:

HNO<sub>3</sub>: L2678 1:1 HNO<sub>3</sub>: L3365 HCl: — H<sub>2</sub>O<sub>2</sub>: K11056  
 Tube Lot#: 221617 Boiling Chip Lot#: — (DoD Only)



**Form I**  
**METHOD BLANK DATA SHEET**  
**EPA 6020B UCT-KED**  
Total Metals

|              |
|--------------|
| <b>Blank</b> |
|--------------|

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Batch: BLD0055

Laboratory ID: BLD0055-BLK1

Prepared: 04/06/23 15:35

Matrix: Solid

Preparation: SWN EPA 3050B

Analyzed: 04/07/23 17:46

Sequence: SLD0127

Calibration: GD00024

Instrument: ICPMS2

| CAS NO.   | Analyte     | Concentration<br>(mg/kg wet) | Dilution<br>Factor | MDL  | MRL  | Q |
|-----------|-------------|------------------------------|--------------------|------|------|---|
| 7440-38-2 | Arsenic-75a | ND                           | 20                 | 0.04 | 0.20 | U |
| 7440-43-9 | Cadmium-111 | ND                           | 20                 | 0.03 | 0.10 | U |
| 7440-50-8 | Copper-63   | ND                           | 20                 | 0.17 | 0.50 | U |
| 7440-66-6 | Zinc-66     | ND                           | 20                 | 2.9  | 6.0  | U |



**LCS / LCS DUPLICATE RECOVERY**

**EPA 6020B UCT-KED**

Total Metals

|                |                                  |                |                        |
|----------------|----------------------------------|----------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u> |
| Matrix:        | <u>Solid</u>                     | Analyzed:      | <u>04/07/23 17:51</u>  |
| Batch:         | <u>BLD0055</u>                   | Laboratory ID: | <u>BLD0055-BS1</u>     |
| Preparation:   | <u>SWN EPA 3050B</u>             | Sequence Name: | <u>LCS</u>             |
| Initial/Final: | <u>1 g / 50 mL</u>               |                |                        |

| COMPOUND    | SPIKE<br>ADDED<br>(mg/kg wet) | LCS<br>CONCENTRATION<br>(mg/kg wet) | Q | LCS<br>%<br>REC. # | QC<br>LIMITS<br>REC. |
|-------------|-------------------------------|-------------------------------------|---|--------------------|----------------------|
| Arsenic-75a | 25.0                          | 24.7                                |   | 98.6               | 80 - 120             |
| Cadmium-111 | 25.0                          | 24.4                                |   | 97.5               | 80 - 120             |
| Copper-63   | 25.0                          | 25.9                                |   | 104                | 80 - 120             |
| Zinc-66     | 80.0                          | 81.1                                |   | 101                | 80 - 120             |

\* Indicates values outside of QC limits



**DUPLICATES**  
**EPA 6020B UCT-KED**  
Total Metals

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: BLD0055-DUP1

Batch: BLD0055

Lab Source ID: 23A0179-01

Preparation: SWN EPA 3050B

Initial/Final: 1.048 g / 50 mL

Source Sample Name: LDW23-SS1277

% Solids: 56.80

| ANALYTE     | CONTROL LIMIT | SAMPLE CONCENTRATION | DUPLICATE CONCENTRATION | RPD % | Q |
|-------------|---------------|----------------------|-------------------------|-------|---|
| Arsenic-75a | 20            | 8.96                 | 8.75                    | 2.40  |   |
| Cadmium-111 | 20            | 0.21                 | 0.24                    | 12.8  |   |
| Copper-63   | 20            | 39.5                 | 37.6                    | 5.02  |   |
| Zinc-66     | 20            | 80.6                 | 80.4                    | 0.227 |   |

\*: Values outside of QC limits

L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/-RL instead of 20% RPD



**MS / MS DUPLICATE RECOVERY**  
**EPA 6020B UCT-KED**  
Total Metals

|                |                                  |                |                        |
|----------------|----------------------------------|----------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u> |
| Matrix:        | <u>Solid</u>                     | Analyzed:      | <u>04/07/23 18:14</u>  |
| Batch:         | <u>BLD0055</u>                   | Laboratory ID: | <u>BLD0055-MS1</u>     |
| Preparation:   | <u>SWN EPA 3050B</u>             | Sequence Name: | <u>Matrix Spike</u>    |
| Initial/Final: | <u>1.046 g / 50 mL</u>           | Source Sample: | <u>LDW23-SS1277</u>    |

| COMPOUND    | SPIKE ADDED (mg/kg dry) | SAMPLE CONCENTRATION (mg/kg dry) | Q | MS CONCENTRATION (mg/kg dry) | Q | MS % REC. # | QC LIMITS REC. |
|-------------|-------------------------|----------------------------------|---|------------------------------|---|-------------|----------------|
| Arsenic-75a | 42.1                    | 8.96                             |   | 50.3                         |   | 98.2        | 75 - 125       |
| Cadmium-111 | 42.1                    | 0.21                             |   | 41.1                         |   | 97.1        | 75 - 125       |
| Copper-63   | 42.1                    | 39.5                             |   | 81.5                         |   | 99.8        | 75 - 125       |
| Zinc-66     | 135                     | 80.6                             |   | 217                          |   | 101         | 75 - 125       |

\* Values outside of QC limits



**MS / MS DUPLICATE RECOVERY**  
**EPA 6020B UCT-KED**  
Total Metals

|  |  |
|--|--|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0179</u>                    |
| Client: <u>Anchor QEA, LLC</u>               | Project: <u>AOC5 MR Phase 1</u>        |
| Matrix: <u>Solid</u>                         | Analyzed: <u>04/07/23 18:19</u>        |
| Batch: <u>BLD0055</u>                        | Laboratory ID: <u>BLD0055-MSD1</u>     |
| Preparation: <u>SWN EPA 3050B</u>            | Sequence Name: <u>Matrix Spike Dup</u> |
| Initial/Final: <u>1.043 g / 50 mL</u>        | Source Sample: <u>LDW23-SS1277</u>     |

| COMPOUND    | SPIKE ADDED<br>(mg/kg dry) | MSD CONCENTRATION<br>(mg/kg dry) | Q | MSD %<br>REC. # | %<br>RPD # | QC LIMITS |          |
|-------------|----------------------------|----------------------------------|---|-----------------|------------|-----------|----------|
|             |                            |                                  |   |                 |            | RPD       | REC.     |
| Arsenic-75a | 42.2                       | 48.9                             |   | 94.6            | 2.82       | 20        | 75 - 125 |
| Cadmium-111 | 42.2                       | 42.0                             |   | 98.9            | 2.17       | 20        | 75 - 125 |
| Copper-63   | 42.2                       | 79.2                             |   | 94.1            | 2.85       | 20        | 75 - 125 |
| Zinc-66     | 135                        | 209                              |   | 95.4            | 3.54       | 20        | 75 - 125 |

\* Values outside of QC limits





**POST DIGEST SPIKE SAMPLE RECOVERY**  
**EPA 6020B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: BLD0055-PS1

Batch: BLD0055

Lab Source ID: 23A0179-01

Preparation: SWN EPA 3050B

Initial/Final: 1.043 g / 50 mL

Source Sample Name: LDW23-SS1277

% Solids: 56.80

| Analyte    | Control Limit %R | Spike Sample Result (SSR) (ug/L) | Sample Result (SR) (ug/L) | Spike Added (SA) (ug/L) | %R  |
|------------|------------------|----------------------------------|---------------------------|-------------------------|-----|
| Silver-107 | 80 - 120         | 519                              | 0.17                      | 500.00                  | 103 |

\* Values outside of QC limits



## INITIAL CALIBRATION DATA

### EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GD00024

Instrument: ICPMS2

Calibration Date: 04/07/2023 14:00

| Compound    | Level 01 |       | Level 02 |         | Level 03 |          | Level 04 |          | Level 05 |          | Level 06 |    |
|-------------|----------|-------|----------|---------|----------|----------|----------|----------|----------|----------|----------|----|
|             | Conc     | RF    | Conc     | RF      | Conc     | RF       | Conc     | RF       | Conc     | RF       | Conc     | RF |
| Silver-107  | 0.2      | 16310 | 10       | 15589.4 | 20       | 15081.25 | 50       | 14400.16 | 100      | 14033.47 | 0        | 0  |
| Chromium-52 | 0.5      | 52134 | 10       | 21521   | 20       | 19752.9  | 50       | 18456.64 | 100      | 18475.77 | 0        | 0  |
| Chromium-53 | 0.5      | 2536  | 10       | 2311.2  | 20       | 2169.55  | 50       | 2118.54  | 100      | 2108.75  | 0        | 0  |
| Lead-208    | 0.1      | 47640 | 10       | 47767.4 | 20       | 46615.15 | 50       | 45078.5  | 100      | 44753.11 | 0        | 0  |



## INITIAL CALIBRATION DATA

### EPA 6020B

Laboratory: Analytical Resources, LLC

Instrument: ICPMS2

Calibration: GD00024

Calibration Date: 4/7/2023

| COMPOUND    | Mean RF  | RF RSD | Linear COD | Quad COD | COD Limit | Q |
|-------------|----------|--------|------------|----------|-----------|---|
| Silver-107  | 12569.05 | 49.4   | 0.9997     |          | 0.998     |   |
| Chromium-52 | 21723.39 | 77.6   | 0.9999     |          | 0.998     |   |
| Chromium-53 | 1874.007 | 49.7   | 0.9999     |          | 0.998     |   |
| Lead-208    | 38642.36 | 49.1   | 0.9999     |          | 0.998     |   |



**INITIAL CALIBRATION DATA**  
**EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GD00024

Instrument: ICPMS2

Calibration Date: 04/07/2023 14:00

| Compound    | Level 01 |          | Level 02 |       | Level 03 |         | Level 04 |         | Level 05 |         | Level 06 |    |
|-------------|----------|----------|----------|-------|----------|---------|----------|---------|----------|---------|----------|----|
|             | Conc     | RF       | Conc     | RF    | Conc     | RF      | Conc     | RF      | Conc     | RF      | Conc     | RF |
| Arsenic-75a | 0.2      | 255      | 10       | 242.1 | 20       | 235.1   | 50       | 222.9   | 100      | 216.58  | 0        | 0  |
| Cadmium-111 | 0.1      | 330      | 10       | 267.8 | 20       | 255.05  | 50       | 249.64  | 100      | 240.43  | 0        | 0  |
| Cadmium-114 | 0.1      | 660      | 10       | 662.4 | 20       | 637     | 50       | 616.14  | 100      | 590.73  | 0        | 0  |
| Copper-63   | 0.5      | 3814     | 10       | 3710  | 20       | 3554.4  | 50       | 3381.02 | 100      | 3282.01 | 0        | 0  |
| Copper-65   | 0.5      | 1812     | 10       | 1780  | 20       | 1773.15 | 50       | 1678.22 | 100      | 1618.2  | 0        | 0  |
| Zinc-66     | 6        | 471      | 10       | 482.3 | 20       | 460.05  | 50       | 430.06  | 100      | 414.84  | 0        | 0  |
| Zinc-67     | 6        | 70.33334 | 10       | 79.4  | 20       | 78.95   | 50       | 70.1    | 100      | 69.36   | 0        | 0  |



## INITIAL CALIBRATION DATA

### EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

Instrument: ICPMS2

Calibration: GD00024

Calibration Date: 4/7/2023

| COMPOUND    | Mean RF  | RF RSD | Linear COD | Quad COD | COD Limit | Q |
|-------------|----------|--------|------------|----------|-----------|---|
| Arsenic-75a | 195.28   | 49.5   | 0.9996     |          | 0.998     |   |
| Cadmium-111 | 223.82   | 51.0   | 0.9996     |          | 0.998     |   |
| Cadmium-114 | 527.7117 | 49.3   | 0.9994     |          | 0.998     |   |
| Copper-63   | 2956.905 | 49.4   | 0.9996     |          | 0.998     |   |
| Copper-65   | 1443.595 | 49.2   | 0.9994     |          | 0.998     |   |
| Zinc-66     | 376.375  | 49.4   | 0.9994     |          | 0.998     |   |
| Zinc-67     | 61.35722 | 49.5   | 0.9992     |          | 0.998     |   |



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# ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 4/7/23 Analyst: SD Sequence: SLD0127 Cal: GD00024

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments                        |
|------------|-------------|---------------|-----------|----------|---------------------------------|
|            |             | SEQ-CAL1      | L3725     |          |                                 |
|            |             | -CAL2         | L3295     |          |                                 |
|            |             | -CAL3         | L3296     |          |                                 |
|            |             | -CAL4         | L3297     |          |                                 |
|            |             | -CAL5         | L3722     |          |                                 |
|            |             | -CAL6         | L3298     |          |                                 |
|            |             | -IBU1         | -         |          |                                 |
|            |             | -ICV1         | L3575     |          |                                 |
|            |             | -ICB1         | L3725     |          | Ge st. noisy - %R & analytes OK |
|            |             | -CCV1         | L3722     |          |                                 |
|            |             | -CCB1         | L3725     |          |                                 |
|            |             | -CHI1         | L3295     |          |                                 |
|            |             | -IFA1         | L3578     |          | Cr <sup>53</sup> ↑              |
|            |             | -IFB1         | L3579     |          | ↓                               |
|            |             | -HCV1         | L3671     |          |                                 |
|            |             | -HCV2         | L3672     |          |                                 |
|            |             | -IBL2         |           |          |                                 |
|            |             | -IBL3         |           |          |                                 |
|            |             | -CCV2         |           |          |                                 |
|            |             | -CCB2         |           |          |                                 |
|            |             | -CAU          |           |          |                                 |
|            |             | -CCV3         |           |          | In st. noisy - %R & analytes OK |
|            |             | ↓ -CCB3       |           |          |                                 |
|            |             | BLD0180-BLK1  | REN       |          |                                 |





Analysis Date: 4/7/23 Analyst: SD Sequence: — Cal: —

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------|-----------|----------|----------|
|            |             | BLD0180-BSI   | PEN       |          |          |
|            |             | 23D0087-01    | ↓         | 2        |          |
|            |             | 23D0001-01    | ↓         |          |          |
|            |             | 23C0770-01    | ↓         | 20       |          |
|            |             | 23C0539-01REI | PEN       | 5        |          |
|            |             | BLD0101-DUP3  | ↓         | ↓        |          |
|            |             | ↓ -MS3        | ↓         | ↓        | Ba STL   |
|            |             | ↓ -MSD3       | ↓         | ↓        | ↓        |
|            |             | SEQ-IBL4      |           |          |          |
|            |             | ↓ -CCV4       |           |          |          |
|            |             | ↓ -CCB4       |           |          |          |
|            |             | BLD0055-BLK1  | SWN       | 20       |          |
|            |             | ↓ -BSI        | ↓         | ↓        |          |
|            |             | BLD0123-BLK1  |           |          |          |
|            |             | ↓ -BSI        |           |          |          |
|            |             | 23A0179-01    |           |          |          |
|            |             | BLD0055-DUPI  |           |          | Pb PPD1  |
|            |             | ↓ -MS1        |           |          | Ag% P↓   |
|            |             | ↓ -MSD1       |           |          | ↓        |
|            |             | ↓ -PS1        | ↓         | ↓        |          |
|            |             | SEQ-IBL5      |           |          |          |
|            |             | ↓ -CCV5       |           |          |          |
|            |             | ↓ -CCB5       |           |          |          |
|            |             | 23A0158-14    | SWN       | 20       |          |



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# ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 4/7/23 Analyst: SD Sequence: — Cal: —

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments                        |
|------------|-------------|---------------|-----------|----------|---------------------------------|
|            |             | 23A0158-15    | SWN       | 20       |                                 |
|            |             | ↓ -16         |           |          |                                 |
|            |             | 23A0206-02    |           |          |                                 |
|            |             | ↓ -01         |           |          |                                 |
|            |             | BLDD123-DUP1  |           |          |                                 |
|            |             | ↓ -MS1        |           |          |                                 |
|            |             | ↓ -MSD1       |           |          |                                 |
|            |             | ↓ -PS1        |           |          |                                 |
|            |             | SEQ-IBL6      |           |          |                                 |
|            |             | ↓ -CCV6       |           |          |                                 |
|            |             | ↓ -CCB6       |           |          |                                 |
|            |             | 23A0179-02    | SWN       | 20       |                                 |
|            |             | ↓ -03         |           |          |                                 |
|            |             | ↓ -04         |           |          |                                 |
|            |             | ↓ -05         |           |          |                                 |
|            |             | ↓ -06         |           |          |                                 |
|            |             | ↓ -07         |           |          |                                 |
|            |             | ↓ -08         |           |          |                                 |
|            |             | ↓ -09         |           |          |                                 |
|            |             | ↓ -10         |           |          |                                 |
|            |             | SEQ-IBL7      |           |          |                                 |
|            |             | ↓ -CCV7       |           |          |                                 |
|            |             | ↓ -CCB7       |           |          | Sc+Tb sl. noisy - %P&amlytes OK |
|            |             | 23A0179-11    | SWN       | 20       |                                 |





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# ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 4/17/23 Analyst: SD Sequence: — Cal: —

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |       |
|------------|-------------|---------------|-----------|----------|----------|-------|
|            |             | 23A0179-12    | SWN       | 20       |          |       |
|            |             | 23A0180-01    | ↓         | ↓        |          |       |
|            |             | ↓ -02         | ↓         | ↓        |          |       |
|            |             | ↓ -03         | ↓         | ↓        |          |       |
|            |             | ↓ -04         | ↓         | ↓        |          |       |
|            |             | 23A0206-03    | ↓         | ↓        |          |       |
|            |             | ↓ -04         | ↓         | ↓        |          |       |
|            |             | ↓ -05         | ↓         | ↓        |          |       |
|            |             | SEQ-IBL8      |           |          |          |       |
|            |             | ↓ -CCV8       |           |          |          |       |
|            |             | ↓ -CCB8       |           |          |          |       |
|            |             | 23A0206-06    | SWN       | 20       |          |       |
|            |             | ↓ -07         | ↓         | ↓        |          |       |
|            |             | ↓ -08         | ↓         | ↓        |          |       |
|            |             | ↓ -09         | ↓         | ↓        |          |       |
|            |             | ↓ -10         | ↓         | ↓        | Zn↑      | No Zn |
|            |             | ↓ -11         | ↓         | ↓        |          |       |
|            |             | ↓ -12         | ↓         | ↓        |          |       |
|            |             | ↓ -13         | ↓         | ↓        | Cd noisy | No Cd |
|            |             | ↓ -14         | ↓         | ↓        |          |       |
|            |             | SEQ-IBL9      |           |          |          |       |
|            |             | ↓ -CCV9       |           |          |          |       |
|            |             | ↓ -CCB9       |           |          |          |       |
|            |             | 23A0158-05    | SWN       | 50       |          |       |



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# ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 4/7/23 Analyst: SD Sequence:      Cal:     

All corrections made by analyst unless otherwise noted. SD 4/7/23

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments                      |
|------------|-------------|---------------|-----------|----------|-------------------------------|
|            |             | 23A0158-06    | SWN       | 50       |                               |
|            |             | ↓ -07         | ↓         | ↓        |                               |
|            |             | ↓ -10         | ↓         | ↓        |                               |
|            |             | 23A0157-01    |           |          |                               |
|            |             | BLD0030-DUP2  |           |          |                               |
|            |             | ↓ -MS2        | ↓         | ↓        |                               |
|            |             | ↓ -MSD2       | ↓         | ↓        |                               |
|            | ✓           | ↓ -PS2        | ↓         | ↓        | Cr% P ↓ - NOT NEEDED          |
|            |             | SEQ-IBLA      |           |          |                               |
|            |             | ↓ -CCVA       |           |          |                               |
|            |             | ↓ -CCBA       |           |          |                               |
|            | ✓           | ↓ -CALI       |           |          |                               |
|            |             | ↓ -CCVB       |           |          |                               |
|            |             | ↓ -CCBB       |           |          |                               |
|            |             | BLD0022-BLK3  | REN       |          |                               |
|            |             | ↓ -BS3        | ↓         |          |                               |
|            |             | 23A0157-06    | SWN       | 50       |                               |
|            |             | ↓ -07         | ↓         | ↓        |                               |
|            |             | ↓ -08         | ↓         | ↓        |                               |
|            |             | ↓ -10         | ↓         | ↓        |                               |
|            |             | ↓ -12         | ↓         | ↓        |                               |
|            |             | ↓ -13         | ↓         | ↓        |                               |
|            |             | 23C0644-01    | REN       | 20       | In-1 noisy - %R & analytes OK |
|            |             | SEQ-IBLC      |           |          |                               |





Analysis Date: 4/7/23 Analyst: SD Sequence: — Cal: —

All corrections made by analyst unless otherwise noted. 8D4/7/23

| Edit Label | Delete Data | ARI Sample ID | Prep Code        | Dilution | Comments       |
|------------|-------------|---------------|------------------|----------|----------------|
|            |             | SEQ-CCVC      |                  |          |                |
|            |             | ↓ -CCBC       |                  |          |                |
|            |             | 23C0591-01RE1 | REN              | 50       |                |
|            |             | 23C0527-06    | <del>REPHN</del> | 2        | SCF-NOT NEEDED |
|            |             | ↓ -02         | ↓                |          | ↓              |
|            |             | ↓ -04         |                  |          |                |
|            |             | ↓ -08         |                  |          |                |
|            |             | ↓ -10         |                  |          |                |
|            |             | ↓ -12         |                  |          |                |
|            |             | BLD0094-DUP1  |                  |          |                |
|            |             | ↓ -MS1        | ↓                |          | ↓              |
|            |             | SEQ-IBLD      |                  |          |                |
|            |             | ↓ -CCVD       |                  |          |                |
|            |             | ↓ -CCBD       |                  |          |                |
|            |             | 23C0530-01    | REN              | 2        |                |
|            |             | ↓ -02         | ↓                | ↓        |                |
|            |             | 23C0513-01    |                  | 5        |                |
|            |             | BLD0022-DUP3  |                  | ↓        |                |
|            |             | ↓ -MS3        |                  | ↓        |                |
|            |             | 23C0539-01    |                  |          | Ba↑ Ba NR      |
|            |             | BLD0101-DUP2  |                  |          | ↓ ↓            |
|            |             | ↓ -MS2        |                  |          |                |
|            |             | ↓ -MSD2       | ↓                |          | ↓ ↓            |
|            |             | SEQ-IBLE      |                  |          |                |



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# ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 4/7/23 Analyst: SD Sequence:      Cal:     

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments       |
|------------|-------------|---------------|-----------|----------|----------------|
|            |             | SEQ-CCVE      |           |          |                |
|            |             | ↓ -CCBE       |           |          |                |
|            |             | 23C0591-04    | REN       | 5        |                |
|            |             | ↓ -02         | ↓         | 2        |                |
|            |             | ↓ -05         | ↓         | ↓        |                |
|            |             | ↓ -06         | ↓         | ↓        |                |
|            |             | ↓ -07         | ↓         | ↓        |                |
|            |             | ↓ -08         | ↓         | ↓        |                |
|            |             | ↓ -03RE1      | ↓         | 10       |                |
|            |             | ↓ -03         | ↓         | 2        |                |
|            |             | ↓ -01         | ↓         |          | Mn↑ MnNR       |
|            |             | SEQ-TBLE      |           |          |                |
|            |             | ↓ -CCVF       |           |          |                |
|            |             | ↓ -CCBF       |           |          |                |
|            | ✓           | ↓ -CALI       |           |          |                |
|            |             | ↓ -CCVG       |           |          |                |
|            |             | ↓ -CCBG       |           |          |                |
|            |             | 23C0540-05    | REN       |          | SC↑-NOT NEEDED |
|            |             | ↓ -04RE1      | ↓         | 10       |                |
|            |             | ↓ -02RE1      | ↓         | 100      |                |
|            |             | ↓ -19RE1      | ↓         | ↓        |                |
|            |             | ↓ -03RE1      | ↓         | ↓        |                |
|            |             | BLDD0102-DUP3 |           |          |                |
|            |             | ↓ -MS3        | ↓         | ↓        | NI STL         |





# ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 4/7/23 Analyst: SD Sequence: — Cal: —

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments                    |
|------------|-------------|---------------|-----------|----------|-----------------------------|
|            |             | BLD0102-MSD3  | REN       | 100      | Ni STL                      |
|            |             | 23C0540-04    | ↓         |          | SCP-NOT NEEDED<br>Ni↑ Ni NR |
|            |             | SEQ-IBLH      |           |          |                             |
|            |             | ↓ -CCVH       |           |          |                             |
|            |             | ↓ -CCBH       |           |          |                             |
|            |             | 23C0512-07    | REN       |          |                             |
|            |             | ↓ -08         | ↓         |          |                             |
|            |             | ↓ -09         |           |          | SCP-NOT NEEDED              |
|            |             | ↓ -10         |           |          |                             |
|            |             | ↓ -11         |           |          |                             |
|            |             | 23C0539-07    |           |          |                             |
|            |             | ↓ -03         |           |          |                             |
|            |             | ↓ -04         |           |          |                             |
|            |             | ↓ -05         |           |          |                             |
|            |             | SEQ-IBLT      |           |          |                             |
|            |             | ↓ -CCVI       |           |          |                             |
|            |             | ↓ -CCBT       |           |          |                             |
|            |             | 23C0544-01    | REN       | 10       |                             |
|            |             | ↓ -02         | ↓         | ↓        |                             |
|            |             | ↓ -03         |           |          |                             |
|            |             | 23C0540-02    |           |          | Ni↑ Ni NR                   |
|            |             | ↓ -19         |           |          | ↓ ↓                         |
|            |             | ↓ -03         |           |          | Ni↑ Ni NR                   |
|            |             | BLD0102-DUPZ  | ↓         | ↓        | ↓ ↓                         |



# ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 4/7/23 Analyst: SD Sequence: — Cal: —

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments  |
|------------|-------------|---------------|-----------|----------|-----------|
|            |             | BIDD102-MSZ   | REN       | 10       | NI↑ NI NR |
|            |             | ↓ -MSDZ       | ↓         | ↓        | ↓         |
|            |             | SEQ-IBLT      |           |          |           |
|            |             | ↓ -CCVT       |           |          |           |
|            |             | ↓ -CCBT       |           |          |           |
|            |             | RINSE/DT      |           |          |           |
| 4/7/23     |             |               |           |          |           |

## Performance Check Report

### Sample ID: STD Performance Check

Sample Date/Time: Friday, April 07, 2023 12:51:06

Sample Description:

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\STD Performance Check.mth

Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\DataSet\Default\STD Performance Check.5627

MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Dual Detector Mode: Pulse

Acq. Dead Time (ns): 35

Current Dead Time (ns): 35

Torch Z position (mm): 0.00

### Summary

| Analyte | Mass  | Meas. Intens. | Mean    | Net Intens. | Mean      | Net Intens. | SD      | Net Intens. | RSD  | Mode     |
|---------|-------|---------------|---------|-------------|-----------|-------------|---------|-------------|------|----------|
| Be      | 9.0   |               | 8480.7  |             | 8480.717  |             | 148.670 |             | 1.8  | Standard |
| In      | 114.9 |               | 64753.0 |             | 64753.034 |             | 657.403 |             | 1.0  | Standard |
| U       | 238.1 |               | 53723.2 |             | 53723.184 |             | 918.660 |             | 1.7  | Standard |
| [ CeO   | 155.9 |               | 1106.4  |             | 0.016     |             | 0.000   |             | 2.7  | Standard |
| > Ce    | 139.9 |               | 67268.8 |             | 67268.821 |             | 723.369 |             | 1.1  | Standard |
| [ Ce++  | 70.0  |               | 1518.9  |             | 0.023     |             | 0.000   |             | 1.9  | Standard |
| Bkgd    | 220.0 |               | 0.1     |             | 0.100     |             | 0.091   |             | 91.3 | Standard |

### Current Conditions File Data

| Current Value | Description                         |
|---------------|-------------------------------------|
| 1.04          | Nebulizer Gas Flow STD/KED [NEB]    |
| 1.20          | Auxiliary Gas Flow                  |
| 18.00         | Plasma Gas Flow                     |
| -11.25        | Deflector Voltage                   |
| 1600.00       | ICP RF Power                        |
| -1712.00      | Analog Stage Voltage                |
| 1650.00       | Pulse Stage Voltage                 |
| 0.00          | Quadrupole Rod Offset STD [QRO]     |
| -8.00         | Cell Rod Offset STD [CRO]           |
| 12.00         | Discriminator Threshold             |
| -4.00         | Cell Entrance/Exit Voltage STD      |
| 0.00          | RPa                                 |
| 0.25          | RPq                                 |
| 1.04          | DRC Mode NEB                        |
| -10.00        | DRC Mode QRO                        |
| -3.00         | DRC Mode CRO                        |
| -7.00         | DRC Mode Cell Entrance/Exit Voltage |
| 0.60          | Cell Gas A                          |
| 0.00          | Cell Gas B                          |
| 250.00        | Axial Field Voltage                 |
| -16.50        | KED Mode CRO                        |
| -12.00        | KED Mode QRO                        |
| -4.00         | KED Mode Cell Entrance Voltage      |
| -39.00        | KED Mode Cell Exit Voltage          |
| 0.00          | KED Cell Gas A                      |
| 5.00          | KED Cell Gas B                      |
| 0.00          | KED RPa                             |
| 0.25          | KED RPq                             |
| 475.00        | KED Mode Axial Field Voltage        |

Sample ID: STD Performance Check

Report Date/Time: Friday, April 07, 2023 12:53:10

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## SmartTune Wizard - Summary

### Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\wizard\SmartTune\ARIdaily\_UCT.swz

Start Time: 4/7/2023 12:50:55 PM

End Time: 4/7/2023 12:59:45 PM

STD Performance Check - [Passed] Optimum value(s): N/A

Obtained Intensity (Be 9): 8480.72

Obtained Intensity (In 115): 64753.03

Obtained Intensity (U 238): 53723.18

Obtained Intensity (Bkgd 220): 0.10

Obtained Formula (Ce++ 70 / Ce 140): 0.023 (=1518.95 / 67268.82)

Obtained Formula (CeO 156 / Ce 140): 0.016 (=1106.44 / 67268.82)

Obtained RSD (Be 9): 0.0175

Obtained RSD (In 115): 0.0102

Obtained RSD (U 238): 0.0171

Torch Alignment - [Passed]

| Vertical | Horizontal | Intensity |
|----------|------------|-----------|
| 0.66 mm  | 0.43 mm    | 69237.38  |

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 1.04

Obtained Intensity (In 115): 66297.48

Obtained Formula (CeO 156 / Ce 140): 0.0209 (=1277.06 / 61240.99)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A

Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.699)

Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.689)

Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.705)

Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.711)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.988; Intercept = -11.87

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.997; Intercept = -12.77



## SmartTune Wizard - Details

### Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\wizard\SmartTune\ARIdaily\_UCT.swz

### Optimization Status

Start Time: 4/7/2023 12:50:55 PM

### STD Performance Check

#### Optimization Settings:

Method: STD Performance Check.mth.  
Intensity Criterion: Be 9 > 2000  
Intensity Criterion: In 115 > 40000  
Intensity Criterion: U 238 > 30000  
Intensity Criterion: Bkgd 220 <= 1  
Formula Criterion: Ce++ 70 / Ce 140 <= 0.03  
Formula Criterion: CeO 156 / Ce 140 <= 0.025  
RSD Criterion: Be 9.0122 < 0.05  
RSD Criterion: In 114.904 < 0.05  
RSD Criterion: U 238.05 < 0.05

#### Optimization Results:

##### Initial Try

Obtained Intensity (Be 9): 8480.72  
Obtained Intensity (In 115): 64753.03  
Obtained Intensity (U 238): 53723.18  
Obtained Intensity (Bkgd 220): 0.10  
Obtained Formula (Ce++ 70 / Ce 140): 0.023 (=1518.95 / 67268.82)  
Obtained Formula (CeO 156 / Ce 140): 0.016 (=1106.44 / 67268.82)  
Obtained RSD (Be 9): 0.0175  
Obtained RSD (In 115): 0.0102  
Obtained RSD (U 238): 0.0171

[Passed] Optimum value(s): N/A

### Torch Alignment

#### Optimization Settings:

Method: Torch Alignment.mth.  
Intensity Criterion: In 115 Maximum

#### Optimization Results:

|          | Vertical | Horizontal | Intensity |
|----------|----------|------------|-----------|
| [Passed] | 0.66 mm  | 0.43 mm    | 69237.38  |

### Nebulizer Gas Flow STD/KED [NEB]

#### Optimization Settings:

Method: Optimize.mth.  
Initial Try - Start/End/Step: 1.02/1.06/0.01.  
Intensity Criterion: In 115 Maximum  
Formula Criterion: CeO 156 / Ce 140 <= 0.025

#### Optimization Results:

##### Initial Try

Obtained Intensity (In 115): 66297.48  
Obtained Formula (CeO 156 / Ce 140): 0.0209 (=1277.06 / 61240.99)

[Passed] Optimum value(s): 1.04

Mass Calibration and Resolution

Optimization Settings:

Method: Tuning.mth.  
MassCal File: Default.tun  
Iterations: 6  
Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution  
Peak height (%) for Res. Opt.: 10

Optimization Results:

Initial Try

Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.699)  
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.689)  
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.705)  
Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.711)

[Passed] Optimum value(s): N/A

QID STD/DRC

Optimization Settings:

Method: QID Calibration.mth.  
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 0.988; Intercept = -11.87

| Analyte | Mass | Points | DAC   | MaxIntensity |
|---------|------|--------|-------|--------------|
| Li      | 7    | 41     | -12.5 | 39398.3      |
| Mg      | 24   | 41     | -13   | 44685.8      |
| In      | 115  | 41     | -10.5 | 69171.1      |
| Ce      | 140  | 41     | -8.5  | 68258.7      |
| Pb      | 208  | 41     | -7.5  | 33543.3      |
| U       | 238  | 41     | -7.5  | 56338.9      |

KED Mode QID

Optimization Settings:

Method: QID Calibration.mth.  
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 0.997; Intercept = -12.77

| Analyte | Mass | Points | DAC   | MaxIntensity |
|---------|------|--------|-------|--------------|
| Li      | 7    | 41     | -13   | 27069.6      |
| Mg      | 24   | 41     | -13   | 27270        |
| In      | 115  | 41     | -10.5 | 47117.6      |
| Ce      | 140  | 41     | -9    | 54507.8      |
| Pb      | 208  | 41     | -7    | 25971.6      |
| U       | 238  | 41     | -6    | 41295.6      |

End Time: 4/7/2023 12:59:45 PM

## SmartTune Wizard - Summary

### Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\wizard\SmartTune\ARIdaily\_UCT.swz

Start Time: 4/7/2023 12:59:52 PM

End Time: 4/7/2023 1:00:59 PM

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.997; Intercept = -11.92

## SmartTune Wizard - Details

### Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\wizard\SmartTune\ARIdaily\_UCT.swz

### Optimization Status

Start Time: 4/7/2023 12:59:52 PM

### QID STD/DRC

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 0.997; Intercept = -11.92

| Analyte | Mass | Points | DAC   | MaxIntensity |
|---------|------|--------|-------|--------------|
| Li      | 7    | 41     | -12.5 | 39474.5      |
| Mg      | 24   | 41     | -13   | 45701        |
| In      | 115  | 41     | -9.5  | 69343.9      |
| Ce      | 140  | 41     | -8    | 67643.8      |
| Pb      | 208  | 41     | -7.5  | 33178.5      |
| U       | 238  | 41     | -7.5  | 57411.1      |

End Time: 4/7/2023 1:00:59 PM

## Performance Check Report

### Sample ID: STD Performance Check

Sample Date/Time: Friday, April 07, 2023 13:01:07

Sample Description:

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\STD Performance Check.mth

Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\DataSet\Default\STD Performance Check.5634

MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Dual Detector Mode: Pulse

Acq. Dead Time (ns): 35

Current Dead Time (ns): 35

Torch Z position (mm): 0.00

### Summary

| Analyte | Mass  | Meas. Intens. | Mean    | Net Intens. | Mean      | Net Intens. | SD      | Net Intens. | RSD | Mode     |          |
|---------|-------|---------------|---------|-------------|-----------|-------------|---------|-------------|-----|----------|----------|
| Be      | 9.0   |               | 9166.8  |             | 9166.807  |             | 83.229  |             | 0.9 | Standard |          |
| In      | 114.9 |               | 67155.9 |             | 67155.884 |             | 495.955 |             | 0.7 | Standard |          |
| U       | 238.1 |               | 57143.0 |             | 57142.998 |             | 482.159 |             | 0.8 | Standard |          |
| [       | CeO   | 155.9         |         | 1363.4      |           | 0.020       |         | 0.001       |     | 4.1      | Standard |
| >       | Ce    | 139.9         |         | 68912.0     |           | 68911.954   |         | 620.844     |     | 0.9      | Standard |
| [       | Ce++  | 70.0          |         | 1683.9      |           | 0.024       |         | 0.001       |     | 2.5      | Standard |
|         | Bkgd  | 220.0         |         | 0.1         |           | 0.067       |         | 0.091       |     | 136.9    | Standard |

### Current Conditions File Data

| Current Value | Description                         |
|---------------|-------------------------------------|
| 1.04          | Nebulizer Gas Flow STD/KED [NEB]    |
| 1.20          | Auxiliary Gas Flow                  |
| 18.00         | Plasma Gas Flow                     |
| -11.25        | Deflector Voltage                   |
| 1600.00       | ICP RF Power                        |
| -1712.00      | Analog Stage Voltage                |
| 1650.00       | Pulse Stage Voltage                 |
| 0.00          | Quadrupole Rod Offset STD [QRO]     |
| -8.00         | Cell Rod Offset STD [CRO]           |
| 12.00         | Discriminator Threshold             |
| -4.00         | Cell Entrance/Exit Voltage STD      |
| 0.00          | RPa                                 |
| 0.25          | RPq                                 |
| 1.04          | DRC Mode NEB                        |
| -10.00        | DRC Mode QRO                        |
| -3.00         | DRC Mode CRO                        |
| -7.00         | DRC Mode Cell Entrance/Exit Voltage |
| 0.60          | Cell Gas A                          |
| 0.00          | Cell Gas B                          |
| 250.00        | Axial Field Voltage                 |
| -16.50        | KED Mode CRO                        |
| -12.00        | KED Mode QRO                        |
| -4.00         | KED Mode Cell Entrance Voltage      |
| -39.00        | KED Mode Cell Exit Voltage          |
| 0.00          | KED Cell Gas A                      |
| 5.00          | KED Cell Gas B                      |
| 0.00          | KED RPa                             |
| 0.25          | KED RPq                             |
| 475.00        | KED Mode Axial Field Voltage        |

Sample ID: STD Performance Check

Report Date/Time: Friday, April 07, 2023 13:03:11

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## SmartTune Wizard - Summary

### Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\wizard\SmartTune\ARIdaily\_UCT.swz

Start Time: 4/7/2023 1:01:05 PM

End Time: 4/7/2023 1:03:11 PM

STD Performance Check - [Passed] Optimum value(s): N/A

Obtained Intensity (Be 9): 9166.81

Obtained Intensity (In 115): 67155.88

Obtained Intensity (U 238): 57143.00

Obtained Intensity (Bkgd 220): 0.07

Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1683.90 / 68911.95)

Obtained Formula (CeO 156 / Ce 140): 0.020 (=1363.40 / 68911.95)

Obtained RSD (Be 9): 0.0091

Obtained RSD (In 115): 0.0074

Obtained RSD (U 238): 0.0084

## SmartTune Wizard - Details

### Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\wizard\SmartTune\ARIdaily\_UCT.swz

### Optimization Status

Start Time: 4/7/2023 1:01:05 PM

### STD Performance Check

#### Optimization Settings:

Method: STD Performance Check.mth.  
Intensity Criterion: Be 9 > 2000  
Intensity Criterion: In 115 > 40000  
Intensity Criterion: U 238 > 30000  
Intensity Criterion: Bkgd 220 <= 1  
Formula Criterion: Ce++ 70 / Ce 140 <= 0.03  
Formula Criterion: CeO 156 / Ce 140 <= 0.025  
RSD Criterion: Be 9.0122 < 0.05  
RSD Criterion: In 114.904 < 0.05  
RSD Criterion: U 238.05 < 0.05

#### Optimization Results:

##### Initial Try

Obtained Intensity (Be 9): 9166.81  
Obtained Intensity (In 115): 67155.88  
Obtained Intensity (U 238): 57143.00  
Obtained Intensity (Bkgd 220): 0.07  
Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1683.90 / 68911.95)  
Obtained Formula (CeO 156 / Ce 140): 0.020 (=1363.40 / 68911.95)  
Obtained RSD (Be 9): 0.0091  
Obtained RSD (In 115): 0.0074  
Obtained RSD (U 238): 0.0084

[Passed] Optimum value(s): N/A

End Time: 4/7/2023 1:03:11 PM

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 14:00:57

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File:

| Analyte Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|--------------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C            | 13         | ug/L  |          |           |               | 29859         | 0           | Standard |
| Cl           | 37         | ug/L  |          |           |               | 4319739       | 0           | Standard |
| [> Sc        | 45         | ug/L  |          |           |               | 534549        | 1           | Standard |
| Cr           | 52         | ug/L  |          |           |               | 16833         | 1           | Standard |
| Cr           | 53         | ug/L  |          |           |               | 189           | 4           | Standard |
| Mn           | 55         | ug/L  |          |           |               | 1126          | 0           | Standard |
| [> Ge        | 72         | ug/L  |          |           |               | 30905         | 2           | KED      |
| Ni           | 60         | ug/L  |          |           |               | 128           | 10          | KED      |
| Ni           | 62         | ug/L  |          |           |               | 22            | 28          | KED      |
| Cu           | 63         | ug/L  |          |           |               | 58            | 26          | KED      |
| Cu           | 65         | ug/L  |          |           |               | 30            | 12          | KED      |
| Zn           | 66         | ug/L  |          |           |               | 22            | 17          | KED      |
| Zn           | 67         | ug/L  |          |           |               | 4             | 65          | KED      |
| As           | 75         | ug/L  |          |           |               | 6             | 4           | KED      |
| Se           | 78         | ug/L  |          |           |               | 18            | 12          | KED      |
| Y            | 89         | ug/L  |          |           |               | 304032        | 2           | Standard |
| Kr           | 83         | ug/L  |          |           |               | 53            | 12          | Standard |
| [> In-1      | 115        | ug/L  |          |           |               | 8638          | 3           | KED      |
| Cd           | 111        | ug/L  |          |           |               | 2             | 88          | KED      |
| Cd           | 114        | ug/L  |          |           |               | 5             | 69          | KED      |
| [> In        | 115        | ug/L  |          |           |               | 433939        | 1           | Standard |
| Ag           | 107        | ug/L  |          |           |               | 219           | 4           | Standard |
| Sb           | 121        | ug/L  |          |           |               | 54            | 26          | Standard |
| Sb           | 123        | ug/L  |          |           |               | 38            | 24          | Standard |
| Ba           | 135        | ug/L  |          |           |               | 13            | 14          | Standard |
| Ba           | 137        | ug/L  |          |           |               | 22            | 25          | Standard |
| [> Tb        | 159        | ug/L  |          |           |               | 730524        | 0           | Standard |
| Tl           | 205        | ug/L  |          |           |               | 951           | 3           | Standard |
| Pb           | 208        | ug/L  |          |           |               | 86            | 13          | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 14:05:47

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 29859         | 35617         | 3           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319739       | 4462923       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 534549        | 540241        | 1           | Standard |
| Cr      | 52   | 0.500      | ug/L  | 0.030    | 5         | 16833         | 26067         | 1           | Standard |
| Cr      | 53   | 0.500      | ug/L  | 0.009    | 1         | 189           | 1268          | 2           | Standard |
| Mn      | 55   | 0.500      | ug/L  | 0.010    | 1         | 1126          | 14562         | 0           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 30905         | 31278         | 1           | KED      |
| Ni      | 60   | 0.500      | ug/L  | 0.025    | 5         | 128           | 751           | 3           | KED      |
| Ni      | 62   | 0.500      | ug/L  | 0.062    | 12        | 22            | 120           | 9           | KED      |
| Cu      | 63   | 0.500      | ug/L  | 0.040    | 8         | 58            | 1907          | 8           | KED      |
| Cu      | 65   | 0.500      | ug/L  | 0.047    | 9         | 30            | 906           | 8           | KED      |
| Zn      | 66   | 6.000      | ug/L  | 0.149    | 2         | 22            | 2826          | 1           | KED      |
| Zn      | 67   | 6.000      | ug/L  | 0.570    | 9         | 4             | 422           | 8           | KED      |
| As      | 75   | 0.200      | ug/L  | 0.021    | 10        | 6             | 51            | 8           | KED      |
| Se      | 78   | 0.500      | ug/L  | 0.212    | 42        | 18            | 34            | 20          | KED      |
| Y       | 89   |            | ug/L  |          |           | 304032        | 309057        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 53            | 54            | 2           | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8638          | 8360          | 4           | KED      |
| Cd      | 111  | 0.100      | ug/L  | 0.022    | 21        | 2             | 33            | 16          | KED      |
| Cd      | 114  | 0.100      | ug/L  | 0.027    | 26        | 5             | 66            | 22          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 433939        | 431866        | 0           | Standard |
| Ag      | 107  | 0.200      | ug/L  | 0.003    | 1         | 219           | 3262          | 2           | Standard |
| Sb      | 121  | 0.200      | ug/L  | 0.004    | 2         | 54            | 2285          | 1           | Standard |
| Sb      | 123  | 0.200      | ug/L  | 0.006    | 2         | 38            | 1733          | 3           | Standard |
| Ba      | 135  | 0.500      | ug/L  | 0.013    | 2         | 13            | 1915          | 2           | Standard |
| Ba      | 137  | 0.500      | ug/L  | 0.006    | 1         | 22            | 3282          | 1           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 730524        | 717017        | 0           | Standard |
| Tl      | 205  | 0.200      | ug/L  | 0.002    | 1         | 951           | 7798          | 0           | Standard |
| Pb      | 208  | 0.100      | ug/L  | 0.003    | 2         | 86            | 4764          | 2           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 14:10:38

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File:

| Analyte Mass | Conc. Mean | Units  | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|--------------|------------|--------|----------|-----------|---------------|---------------|-------------|----------|
| C            | 13         | ug/L   |          |           | 29859         | 64012         | 0           | Standard |
| Cl           | 37         | ug/L   |          |           | 4319739       | 4362622       | 0           | Standard |
| [> Sc        | 45         | ug/L   |          |           | 534549        | 562925        | 0           | Standard |
| Cr           | 52         | 10.001 | 0.325    | 3         | 16833         | 215210        | 2           | Standard |
| Cr           | 53         | 10.001 | 0.184    | 1         | 189           | 23112         | 1           | Standard |
| Mn           | 55         | 9.999  | 0.213    | 2         | 1126          | 272905        | 1           | Standard |
| [> Ge        | 72         | ug/L   |          |           | 30905         | 32013         | 0           | KED      |
| Ni           | 60         | 10.000 | 0.099    | 0         | 128           | 12630         | 0           | KED      |
| Ni           | 62         | 10.000 | 0.416    | 4         | 22            | 2047          | 4           | KED      |
| Cu           | 63         | 9.999  | 0.086    | 0         | 58            | 37100         | 1           | KED      |
| Cu           | 65         | 10.000 | 0.098    | 0         | 30            | 17800         | 1           | KED      |
| Zn           | 66         | 10.008 | 0.251    | 2         | 22            | 4823          | 2           | KED      |
| Zn           | 67         | 10.260 | 0.474    | 4         | 4             | 794           | 4           | KED      |
| As           | 75         | 10.000 | 0.124    | 1         | 6             | 2421          | 1           | KED      |
| Se           | 78         | 9.996  | 0.192    | 1         | 18            | 287           | 1           | KED      |
| Y            | 89         | ug/L   |          |           | 304032        | 317526        | 1           | Standard |
| Kr           | 83         | ug/L   |          |           | 53            | 45            | 12          | Standard |
| [> In-1      | 115        | ug/L   |          |           | 8638          | 8720          | 0           | KED      |
| Cd           | 111        | 10.000 | 0.247    | 2         | 2             | 2678          | 2           | KED      |
| Cd           | 114        | 10.000 | 0.121    | 1         | 5             | 6624          | 1           | KED      |
| [> In        | 115        | ug/L   |          |           | 433939        | 443145        | 1           | Standard |
| Ag           | 107        | 10.000 | 0.162    | 1         | 219           | 155894        | 0           | Standard |
| Sb           | 121        | 10.000 | 0.175    | 1         | 54            | 119554        | 0           | Standard |
| Sb           | 123        | 10.000 | 0.148    | 1         | 38            | 89634         | 0           | Standard |
| Ba           | 135        | 9.999  | 0.240    | 2         | 13            | 38214         | 1           | Standard |
| Ba           | 137        | 10.000 | 0.115    | 1         | 22            | 68215         | 1           | Standard |
| [> Tb        | 159        | ug/L   |          |           | 730524        | 755356        | 0           | Standard |
| Tl           | 205        | 10.000 | 0.190    | 1         | 951           | 364034        | 1           | Standard |
| Pb           | 208        | 10.000 | 0.034    | 0         | 86            | 477674        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 14:15:42

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 29859         | 67136         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319739       | 4417547       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 534549        | 559321        | 0           | Standard |
| Cr      | 52   | 19.842     | ug/L  | 0.213    | 1         | 16833         | 395058        | 1           | Standard |
| Cr      | 53   | 19.785     | ug/L  | 0.063    | 0         | 189           | 43391         | 0           | Standard |
| Mn      | 55   | 19.933     | ug/L  | 0.244    | 1         | 1126          | 532347        | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 30905         | 31773         | 1           | KED      |
| Ni      | 60   | 19.934     | ug/L  | 0.498    | 2         | 128           | 24532         | 1           | KED      |
| Ni      | 62   | 19.956     | ug/L  | 0.389    | 1         | 22            | 3996          | 2           | KED      |
| Cu      | 63   | 19.860     | ug/L  | 0.132    | 0         | 58            | 71088         | 2           | KED      |
| Cu      | 65   | 20.019     | ug/L  | 0.259    | 1         | 30            | 35463         | 0           | KED      |
| Zn      | 66   | 19.812     | ug/L  | 0.145    | 0         | 22            | 9201          | 1           | KED      |
| Zn      | 67   | 20.156     | ug/L  | 0.811    | 4         | 4             | 1579          | 2           | KED      |
| As      | 75   | 19.917     | ug/L  | 0.155    | 0         | 6             | 4702          | 0           | KED      |
| Se      | 78   | 20.004     | ug/L  | 0.526    | 2         | 18            | 552           | 3           | KED      |
| Y       | 89   |            | ug/L  |          |           | 304032        | 318436        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 53            | 66            | 20          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8638          | 8670          | 1           | KED      |
| Cd      | 111  | 19.829     | ug/L  | 0.230    | 1         | 2             | 5101          | 0           | KED      |
| Cd      | 114  | 19.868     | ug/L  | 0.536    | 2         | 5             | 12740         | 1           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 433939        | 436330        | 1           | Standard |
| Ag      | 107  | 19.931     | ug/L  | 0.018    | 0         | 219           | 301625        | 1           | Standard |
| Sb      | 121  | 19.919     | ug/L  | 0.448    | 2         | 54            | 230711        | 1           | Standard |
| Sb      | 123  | 19.930     | ug/L  | 0.078    | 0         | 38            | 173429        | 1           | Standard |
| Ba      | 135  | 19.877     | ug/L  | 0.352    | 1         | 13            | 72989         | 0           | Standard |
| Ba      | 137  | 19.870     | ug/L  | 0.108    | 0         | 22            | 130072        | 0           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 730524        | 742527        | 1           | Standard |
| Tl      | 205  | 19.963     | ug/L  | 0.204    | 1         | 951           | 708107        | 0           | Standard |
| Pb      | 208  | 19.972     | ug/L  | 0.245    | 1         | 86            | 932303        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 14:20:56

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File:

| Analyte Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|--------------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C 13         |            | ug/L  |          |           | 29859         | 30200         | 1           | Standard |
| Cl 37        |            | ug/L  |          |           | 4319739       | 4457519       | 2           | Standard |
| [> Sc 45     |            | ug/L  |          |           | 534549        | 567055        | 0           | Standard |
| Cr 52        | 49.459     | ug/L  | 0.439    | 0         | 16833         | 922832        | 1           | Standard |
| Cr 53        | 49.614     | ug/L  | 1.037    | 2         | 189           | 105927        | 1           | Standard |
| Mn 55        | 49.634     | ug/L  | 0.306    | 0         | 1126          | 1294836       | 0           | Standard |
| [> Ge 72     |            | ug/L  |          |           | 30905         | 31187         | 1           | KED      |
| Ni 60        | 49.584     | ug/L  | 0.768    | 1         | 128           | 57336         | 1           | KED      |
| Ni 62        | 49.510     | ug/L  | 0.364    | 0         | 22            | 9244          | 1           | KED      |
| Cu 63        | 49.681     | ug/L  | 1.424    | 2         | 58            | 169051        | 2           | KED      |
| Cu 65        | 49.704     | ug/L  | 0.196    | 0         | 30            | 83911         | 1           | KED      |
| Zn 66        | 49.490     | ug/L  | 0.495    | 0         | 22            | 21503         | 1           | KED      |
| Zn 67        | 49.167     | ug/L  | 1.184    | 2         | 4             | 3505          | 2           | KED      |
| As 75        | 49.678     | ug/L  | 0.677    | 1         | 6             | 11145         | 0           | KED      |
| Se 78        | 49.597     | ug/L  | 0.550    | 1         | 18            | 1266          | 1           | KED      |
| Y 89         |            | ug/L  |          |           | 304032        | 311796        | 1           | Standard |
| Kr 83        |            | ug/L  |          |           | 53            | 69            | 23          | Standard |
| [> In-1 115  |            | ug/L  |          |           | 8638          | 8425          | 0           | KED      |
| Cd 111       | 49.990     | ug/L  | 0.203    | 0         | 2             | 12482         | 0           | KED      |
| Cd 114       | 49.906     | ug/L  | 0.519    | 1         | 5             | 30807         | 1           | KED      |
| [> In 115    |            | ug/L  |          |           | 433939        | 429730        | 0           | Standard |
| Ag 107       | 49.716     | ug/L  | 1.985    | 3         | 219           | 720008        | 3           | Standard |
| Sb 121       | 49.636     | ug/L  | 0.368    | 0         | 54            | 546326        | 0           | Standard |
| Sb 123       | 49.793     | ug/L  | 0.646    | 1         | 38            | 418006        | 0           | Standard |
| Ba 135       | 49.931     | ug/L  | 0.604    | 1         | 13            | 179343        | 0           | Standard |
| Ba 137       | 49.861     | ug/L  | 0.822    | 1         | 22            | 317019        | 1           | Standard |
| [> Tb 159    |            | ug/L  |          |           | 730524        | 729522        | 3           | Standard |
| Tl 205       | 49.846     | ug/L  | 2.423    | 4         | 951           | 1707888       | 1           | Standard |
| Pb 208       | 49.859     | ug/L  | 1.273    | 2         | 86            | 2253925       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 14:27:50

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File:

| Analyte Mass | Conc. Mean | Units   | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|--------------|------------|---------|----------|-----------|---------------|---------------|-------------|----------|
| C            | 13         | ug/L    |          |           | 29859         | 51185         | 1           | Standard |
| Cl           | 37         | ug/L    |          |           | 4319739       | 4496501       | 1           | Standard |
| [> Sc        | 45         | ug/L    |          |           | 534549        | 555515        | 2           | Standard |
| Cr           | 52         | 100.487 | 2.599    | 2         | 16833         | 1847577       | 0           | Standard |
| Cr           | 53         | 100.217 | 2.012    | 2         | 189           | 210875        | 0           | Standard |
| Mn           | 55         | 100.066 | 3.786    | 3         | 1126          | 2560267       | 1           | Standard |
| [> Ge        | 72         | ug/L    |          |           | 30905         | 29504         | 2           | KED      |
| Ni           | 60         | 100.780 | 2.186    | 2         | 128           | 113030        | 0           | KED      |
| Ni           | 62         | 101.066 | 1.407    | 1         | 22            | 18484         | 1           | KED      |
| Cu           | 63         | 100.450 | 1.914    | 1         | 58            | 328201        | 1           | KED      |
| Cu           | 65         | 100.315 | 2.637    | 2         | 30            | 161820        | 0           | KED      |
| Zn           | 66         | 100.231 | 2.113    | 2         | 22            | 41484         | 1           | KED      |
| Zn           | 67         | 100.657 | 1.920    | 1         | 4             | 6936          | 4           | KED      |
| As           | 75         | 100.474 | 1.466    | 1         | 6             | 21658         | 0           | KED      |
| [ Se         | 78         | 100.479 | 1.476    | 1         | 18            | 2448          | 1           | KED      |
| Y            | 89         | ug/L    |          |           | 304032        | 315624        | 2           | Standard |
| Kr           | 83         | ug/L    |          |           | 53            | 78            | 6           | Standard |
| [> In-1      | 115        | ug/L    |          |           | 8638          | 8150          | 2           | KED      |
| Cd           | 111        | 99.901  | 1.886    | 1         | 2             | 24043         | 0           | KED      |
| Cd           | 114        | 99.759  | 2.192    | 2         | 5             | 59073         | 0           | KED      |
| [> In        | 115        | ug/L    |          |           | 433939        | 422511        | 1           | Standard |
| Ag           | 107        | 99.668  | 3.866    | 3         | 219           | 1403347       | 2           | Standard |
| Sb           | 121        | 100.200 | 2.245    | 2         | 54            | 1091404       | 1           | Standard |
| Sb           | 123        | 100.288 | 1.204    | 1         | 38            | 835711        | 0           | Standard |
| Ba           | 135        | 100.004 | 0.926    | 0         | 13            | 353194        | 0           | Standard |
| [ Ba         | 137        | 100.085 | 2.045    | 2         | 22            | 627335        | 0           | Standard |
| [> Tb        | 159        | ug/L    |          |           | 730524        | 722656        | 0           | Standard |
| Tl           | 205        | 100.343 | 1.401    | 1         | 951           | 3447378       | 1           | Standard |
| [ Pb         | 208        | 99.975  | 0.698    | 0         | 86            | 4475311       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 14:35:25

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 29859         | 35213         | 4           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319739       | 4395062       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 534549        | 544449        | 2           | Standard |
| Cr      | 52   | -0.002     | ug/L  | 0.037    | 1561      | 16833         | 17097         | 3           | Standard |
| Cr      | 53   | -0.011     | ug/L  | 0.003    | 29        | 189           | 170           | 3           | Standard |
| Mn      | 55   | -0.002     | ug/L  | 0.002    | 132       | 1126          | 1100          | 3           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 30905         | 30530         | 0           | KED      |
| Ni      | 60   | 0.046      | ug/L  | 0.024    | 50        | 128           | 180           | 15          | KED      |
| Ni      | 62   | 0.049      | ug/L  | 0.082    | 168       | 22            | 31            | 48          | KED      |
| Cu      | 63   | 0.000      | ug/L  | 0.001    | 291       | 58            | 59            | 6           | KED      |
| Cu      | 65   | -0.000     | ug/L  | 0.005    | 2893      | 30            | 29            | 25          | KED      |
| Zn      | 66   | 0.005      | ug/L  | 0.007    | 133       | 22            | 24            | 12          | KED      |
| Zn      | 67   | 0.010      | ug/L  | 0.062    | 641       | 4             | 5             | 86          | KED      |
| As      | 75   | 0.011      | ug/L  | 0.014    | 129       | 6             | 8             | 37          | KED      |
| Se      | 78   | 0.060      | ug/L  | 0.110    | 184       | 18            | 19            | 14          | KED      |
| Y       | 89   |            | ug/L  |          |           | 304032        | 304236        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 53            | 55            | 21          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8638          | 8362          | 1           | KED      |
| Cd      | 111  | 0.002      | ug/L  | 0.012    | 785       | 2             | 3             | 96          | KED      |
| Cd      | 114  | -0.003     | ug/L  | 0.006    | 224       | 5             | 3             | 102         | KED      |
| [> In   | 115  |            | ug/L  |          |           | 433939        | 428781        | 0           | Standard |
| Ag      | 107  | -0.002     | ug/L  | 0.002    | 81        | 219           | 187           | 12          | Standard |
| Sb      | 121  | 0.027      | ug/L  | 0.002    | 8         | 54            | 354           | 8           | Standard |
| Sb      | 123  | 0.027      | ug/L  | 0.004    | 13        | 38            | 269           | 12          | Standard |
| Ba      | 135  | 0.006      | ug/L  | 0.002    | 35        | 13            | 34            | 22          | Standard |
| Ba      | 137  | 0.005      | ug/L  | 0.001    | 13        | 22            | 55            | 8           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 730524        | 724374        | 1           | Standard |
| Tl      | 205  | 0.002      | ug/L  | 0.000    | 26        | 951           | 1003          | 0           | Standard |
| Pb      | 208  | 0.001      | ug/L  | 0.000    | 37        | 86            | 125           | 9           | Standard |

## Sample Information

Sample Date/Time: Friday, April 07, 2023 14:27:50

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED

Mass Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723.cal

## Calibration

| Analyte | Mass | r Corr Coef   | Slope | Std 1 Conc | Std 2 Conc | Std 3 Conc | Std 4 Conc | Std 5 Conc |
|---------|------|---------------|-------|------------|------------|------------|------------|------------|
| C       | 13   |               |       |            |            |            |            |            |
| Cl      | 37   |               |       |            |            |            |            |            |
| Sc      | 45   |               |       |            |            |            |            |            |
| Cr      | 52   | <b>0.9999</b> | 0.033 | 0.50       | 10         | 20         | 50         | 100        |
| Cr      | 53   | <b>0.9999</b> | 0.004 | 0.50       | 10         | 20         | 50         | 100        |
| Mn      | 55   | <b>1.0000</b> | 0.046 | 0.50       | 10         | 20         | 50         | 100        |
| Ge      | 72   |               |       |            |            |            |            |            |
| Ni      | 60   | <b>0.9999</b> | 0.038 | 0.50       | 10         | 20         | 50         | 100        |
| Ni      | 62   | <b>0.9998</b> | 0.006 | 0.50       | 10         | 20         | 50         | 100        |
| Cu      | 63   | <b>0.9999</b> | 0.111 | 0.50       | 10         | 20         | 50         | 100        |
| Cu      | 65   | <b>1.0000</b> | 0.055 | 0.50       | 10         | 20         | 50         | 100        |
| Zn      | 66   | <b>0.9999</b> | 0.014 | 6.00       | 10         | 20         | 50         | 100        |
| Zn      | 67   | <b>0.9998</b> | 0.002 | 6.00       | 10         | 20         | 50         | 100        |
| As      | 75   | <b>0.9999</b> | 0.007 | 0.20       | 10         | 20         | 50         | 100        |
| Se      | 78   | <b>0.9999</b> | 0.001 | 0.50       | 10         | 20         | 50         | 100        |
| Y       | 89   |               |       |            |            |            |            |            |
| Kr      | 83   |               |       |            |            |            |            |            |
| In-1    | 115  |               |       |            |            |            |            |            |
| Cd      | 111  | <b>1.0000</b> | 0.030 | 0.10       | 10         | 20         | 50         | 100        |
| Cd      | 114  | <b>1.0000</b> | 0.073 | 0.10       | 10         | 20         | 50         | 100        |
| In      | 115  |               |       |            |            |            |            |            |
| Ag      | 107  | <b>1.0000</b> | 0.033 | 0.20       | 10         | 20         | 50         | 100        |
| Sb      | 121  | <b>1.0000</b> | 0.026 | 0.20       | 10         | 20         | 50         | 100        |
| Sb      | 123  | <b>1.0000</b> | 0.020 | 0.20       | 10         | 20         | 50         | 100        |
| Ba      | 135  | <b>1.0000</b> | 0.008 | 0.50       | 10         | 20         | 50         | 100        |
| Ba      | 137  | <b>1.0000</b> | 0.015 | 0.50       | 10         | 20         | 50         | 100        |
| Tb      | 159  |               |       |            |            |            |            |            |
| Tl      | 205  | <b>1.0000</b> | 0.048 | 0.20       | 10         | 20         | 50         | 100        |
| Pb      | 208  | <b>1.0000</b> | 0.062 | 0.10       | 10         | 20         | 50         | 100        |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 14:43:40

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 29859         | 37305         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319739       | 4491368       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 534549        | 561289        | 1           | Standard |
| Cr      | 52   | 52.146     | ug/L  | 0.355    | 0         | 16833         | 977670        | 2           | Standard |
| Cr      | 53   | 51.788     | ug/L  | 0.775    | 1         | 189           | 110218        | 0           | Standard |
| Mn      | 55   | 52.586     | ug/L  | 0.701    | 1         | 1126          | 1360607       | 0           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 30905         | 31696         | 1           | KED      |
| Ni      | 60   | 49.861     | ug/L  | 0.416    | 0         | 128           | 60162         | 1           | KED      |
| Ni      | 62   | 50.468     | ug/L  | 0.353    | 0         | 22            | 9928          | 1           | KED      |
| Cu      | 63   | 50.087     | ug/L  | 0.608    | 1         | 58            | 175863        | 1           | KED      |
| Cu      | 65   | 50.247     | ug/L  | 0.678    | 1         | 30            | 87116         | 1           | KED      |
| Zn      | 66   | 48.554     | ug/L  | 0.359    | 0         | 22            | 21604         | 1           | KED      |
| Zn      | 67   | 48.627     | ug/L  | 2.221    | 4         | 4             | 3599          | 3           | KED      |
| As      | 75   | 46.543     | ug/L  | 0.426    | 0         | 6             | 10783         | 0           | KED      |
| [ Se    | 78   | 75.021     | ug/L  | 1.069    | 1         | 18            | 1968          | 1           | KED      |
| Y       | 89   |            | ug/L  |          |           | 304032        | 320562        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 53            | 57            | 21          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8638          | 8630          | 1           | KED      |
| Cd      | 111  | 49.740     | ug/L  | 0.082    | 0         | 2             | 12681         | 1           | KED      |
| Cd      | 114  | 48.943     | ug/L  | 0.325    | 0         | 5             | 30703         | 1           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 433939        | 424855        | 0           | Standard |
| Ag      | 107  | 53.018     | ug/L  | 0.788    | 1         | 219           | 750954        | 1           | Standard |
| Sb      | 121  | 50.624     | ug/L  | 0.270    | 0         | 54            | 554572        | 0           | Standard |
| Sb      | 123  | 50.427     | ug/L  | 0.589    | 1         | 38            | 422607        | 1           | Standard |
| Ba      | 135  | 51.698     | ug/L  | 1.115    | 2         | 13            | 183604        | 1           | Standard |
| [ Ba    | 137  | 52.157     | ug/L  | 0.455    | 0         | 22            | 328810        | 1           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 730524        | 740859        | 0           | Standard |
| Tl      | 205  | 50.079     | ug/L  | 0.311    | 0         | 951           | 1764382       | 0           | Standard |
| [ Pb    | 208  | 50.539     | ug/L  | 0.422    | 0         | 86            | 2319372       | 0           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 14:51:14

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 29859         | 30607         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319739       | 4343618       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 534549        | 546372        | 2           | Standard |
| Cr      | 52   | -0.012     | ug/L  | 0.039    | 337       | 16833         | 16986         | 2           | Standard |
| Cr      | 53   | -0.010     | ug/L  | 0.005    | 46        | 189           | 173           | 4           | Standard |
| Mn      | 55   | -0.004     | ug/L  | 0.000    | 1         | 1126          | 1039          | 2           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 30905         | 30563         | 6           | KED      |
| Ni      | 60   | 0.041      | ug/L  | 0.010    | 23        | 128           | 173           | 1           | KED      |
| Ni      | 62   | 0.065      | ug/L  | 0.076    | 117       | 22            | 34            | 34          | KED      |
| Cu      | 63   | -0.001     | ug/L  | 0.006    | 1016      | 58            | 55            | 34          | KED      |
| Cu      | 65   | -0.000     | ug/L  | 0.006    | 1403      | 30            | 29            | 37          | KED      |
| Zn      | 66   | -0.005     | ug/L  | 0.006    | 104       | 22            | 19            | 14          | KED      |
| Zn      | 67   | 0.027      | ug/L  | 0.015    | 53        | 4             | 6             | 17          | KED      |
| As      | 75   | 0.004      | ug/L  | 0.004    | 95        | 6             | 6             | 10          | KED      |
| Se      | 78   | -0.083     | ug/L  | 0.090    | 108       | 18            | 16            | 8           | KED      |
| Y       | 89   |            | ug/L  |          |           | 304032        | 301477        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 53            | 55            | 5           | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8638          | 8418          | 1           | KED      |
| Cd      | 111  | 0.010      | ug/L  | 0.008    | 74        | 2             | 5             | 36          | KED      |
| Cd      | 114  | -0.003     | ug/L  | 0.006    | 222       | 5             | 3             | 103         | KED      |
| [> In   | 115  |            | ug/L  |          |           | 433939        | 421024        | 1           | Standard |
| Ag      | 107  | -0.004     | ug/L  | 0.001    | 39        | 219           | 163           | 12          | Standard |
| Sb      | 121  | 0.029      | ug/L  | 0.002    | 7         | 54            | 362           | 5           | Standard |
| Sb      | 123  | 0.029      | ug/L  | 0.003    | 11        | 38            | 276           | 9           | Standard |
| Ba      | 135  | -0.001     | ug/L  | 0.001    | 115       | 13            | 9             | 40          | Standard |
| Ba      | 137  | 0.001      | ug/L  | 0.001    | 82        | 22            | 26            | 11          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 730524        | 726082        | 0           | Standard |
| Tl      | 205  | 0.001      | ug/L  | 0.002    | 127       | 951           | 994           | 6           | Standard |
| Pb      | 208  | -0.000     | ug/L  | 0.000    | 412       | 86            | 82            | 15          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 14:56:20

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 29859         | 30745         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319739       | 4484893       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 534549        | 557260        | 1           | Standard |
| Cr      | 52   | 50.894     | ug/L  | 0.679    | 1         | 16833         | 947632        | 0           | Standard |
| Cr      | 53   | 51.496     | ug/L  | 0.843    | 1         | 189           | 108813        | 0           | Standard |
| Mn      | 55   | 51.245     | ug/L  | 0.199    | 0         | 1126          | 1316569       | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 30905         | 30859         | 0           | KED      |
| Ni      | 60   | 49.356     | ug/L  | 0.298    | 0         | 128           | 57977         | 0           | KED      |
| Ni      | 62   | 49.766     | ug/L  | 1.766    | 3         | 22            | 9530          | 2           | KED      |
| Cu      | 63   | 50.136     | ug/L  | 0.332    | 0         | 58            | 171398        | 1           | KED      |
| Cu      | 65   | 50.177     | ug/L  | 0.934    | 1         | 30            | 84715         | 2           | KED      |
| Zn      | 66   | 50.668     | ug/L  | 1.170    | 2         | 22            | 21949         | 2           | KED      |
| Zn      | 67   | 50.589     | ug/L  | 0.258    | 0         | 4             | 3647          | 0           | KED      |
| As      | 75   | 49.645     | ug/L  | 0.364    | 0         | 6             | 11198         | 1           | KED      |
| Se      | 78   | 49.309     | ug/L  | 0.451    | 0         | 18            | 1266          | 1           | KED      |
| Y       | 89   |            | ug/L  |          |           | 304032        | 313290        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 53            | 67            | 8           | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8638          | 8624          | 0           | KED      |
| Cd      | 111  | 49.474     | ug/L  | 0.740    | 1         | 2             | 12604         | 1           | KED      |
| Cd      | 114  | 49.749     | ug/L  | 1.248    | 2         | 5             | 31188         | 2           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 433939        | 429153        | 1           | Standard |
| Ag      | 107  | 50.232     | ug/L  | 1.014    | 2         | 219           | 718593        | 1           | Standard |
| Sb      | 121  | 49.858     | ug/L  | 0.954    | 1         | 54            | 551578        | 0           | Standard |
| Sb      | 123  | 49.609     | ug/L  | 1.242    | 2         | 38            | 419827        | 0           | Standard |
| Ba      | 135  | 50.635     | ug/L  | 1.000    | 1         | 13            | 181617        | 0           | Standard |
| Ba      | 137  | 50.164     | ug/L  | 0.431    | 0         | 22            | 319419        | 1           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 730524        | 736459        | 0           | Standard |
| Tl      | 205  | 49.542     | ug/L  | 0.992    | 2         | 951           | 1735100       | 1           | Standard |
| Pb      | 208  | 49.250     | ug/L  | 0.448    | 0         | 86            | 2246818       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 15:05:32

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 29859         | 31350         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319739       | 4360766       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 534549        | 541607        | 2           | Standard |
| Cr      | 52   | -0.014     | ug/L  | 0.012    | 82        | 16833         | 16804         | 1           | Standard |
| Cr      | 53   | -0.016     | ug/L  | 0.012    | 72        | 189           | 158           | 12          | Standard |
| Mn      | 55   | -0.007     | ug/L  | 0.001    | 17        | 1126          | 976           | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 30905         | 30370         | 0           | KED      |
| Ni      | 60   | 0.042      | ug/L  | 0.022    | 52        | 128           | 174           | 14          | KED      |
| Ni      | 62   | 0.039      | ug/L  | 0.005    | 13        | 22            | 29            | 3           | KED      |
| Cu      | 63   | 0.001      | ug/L  | 0.003    | 224       | 58            | 61            | 15          | KED      |
| Cu      | 65   | 0.004      | ug/L  | 0.003    | 76        | 30            | 36            | 13          | KED      |
| Zn      | 66   | -0.005     | ug/L  | 0.019    | 375       | 22            | 19            | 40          | KED      |
| Zn      | 67   | 0.010      | ug/L  | 0.041    | 411       | 4             | 5             | 57          | KED      |
| As      | 75   | 0.007      | ug/L  | 0.008    | 122       | 6             | 7             | 25          | KED      |
| Se      | 78   | 0.190      | ug/L  | 0.066    | 34        | 18            | 22            | 7           | KED      |
| Y       | 89   |            | ug/L  |          |           | 304032        | 300302        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 53            | 51            | 23          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8638          | 8547          | 2           | KED      |
| Cd      | 111  | 0.004      | ug/L  | 0.000    | 10        | 2             | 3             | 0           | KED      |
| Cd      | 114  | -0.003     | ug/L  | 0.003    | 118       | 5             | 3             | 53          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 433939        | 429772        | 0           | Standard |
| Ag      | 107  | -0.005     | ug/L  | 0.001    | 13        | 219           | 144           | 6           | Standard |
| Sb      | 121  | 0.044      | ug/L  | 0.002    | 4         | 54            | 539           | 3           | Standard |
| Sb      | 123  | 0.045      | ug/L  | 0.001    | 3         | 38            | 418           | 2           | Standard |
| Ba      | 135  | -0.000     | ug/L  | 0.002    | 1697      | 13            | 12            | 60          | Standard |
| Ba      | 137  | -0.001     | ug/L  | 0.001    | 102       | 22            | 17            | 26          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 730524        | 713009        | 0           | Standard |
| Tl      | 205  | 0.001      | ug/L  | 0.002    | 287       | 951           | 950           | 6           | Standard |
| Pb      | 208  | 0.000      | ug/L  | 0.000    | 918       | 86            | 85            | 15          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 15:11:52

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 29859         | 35819         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319739       | 4376045       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 534549        | 540381        | 0           | Standard |
| Cr      | 52   | 0.544      | ug/L  | 0.037    | 6         | 16833         | 26657         | 1           | Standard |
| Cr      | 53   | 0.527      | ug/L  | 0.031    | 5         | 189           | 1270          | 4           | Standard |
| Mn      | 55   | 0.518      | ug/L  | 0.013    | 2         | 1126          | 14038         | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 30905         | 30747         | 1           | KED      |
| Ni      | 60   | 0.552      | ug/L  | 0.032    | 5         | 128           | 772           | 5           | KED      |
| Ni      | 62   | 0.624      | ug/L  | 0.028    | 4         | 22            | 141           | 5           | KED      |
| Cu      | 63   | 0.503      | ug/L  | 0.027    | 5         | 58            | 1770          | 4           | KED      |
| Cu      | 65   | 0.538      | ug/L  | 0.014    | 2         | 30            | 935           | 3           | KED      |
| Zn      | 66   | 6.133      | ug/L  | 0.163    | 2         | 22            | 2666          | 3           | KED      |
| Zn      | 67   | 5.584      | ug/L  | 0.170    | 3         | 4             | 405           | 3           | KED      |
| As      | 75   | 0.219      | ug/L  | 0.005    | 2         | 6             | 55            | 1           | KED      |
| [ Se    | 78   | 0.425      | ug/L  | 0.113    | 26        | 18            | 28            | 9           | KED      |
| Y       | 89   |            | ug/L  |          |           | 304032        | 309901        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 53            | 59            | 5           | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8638          | 8467          | 1           | KED      |
| Cd      | 111  | 0.113      | ug/L  | 0.004    | 3         | 2             | 31            | 1           | KED      |
| Cd      | 114  | 0.112      | ug/L  | 0.008    | 6         | 5             | 74            | 5           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 433939        | 431090        | 2           | Standard |
| Ag      | 107  | 0.198      | ug/L  | 0.016    | 7         | 219           | 3060          | 4           | Standard |
| Sb      | 121  | 0.207      | ug/L  | 0.005    | 2         | 54            | 2360          | 4           | Standard |
| Sb      | 123  | 0.207      | ug/L  | 0.011    | 5         | 38            | 1799          | 4           | Standard |
| Ba      | 135  | 0.503      | ug/L  | 0.030    | 6         | 13            | 1824          | 5           | Standard |
| [ Ba    | 137  | 0.505      | ug/L  | 0.025    | 5         | 22            | 3249          | 2           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 730524        | 716653        | 0           | Standard |
| Tl      | 205  | 0.202      | ug/L  | 0.010    | 5         | 951           | 7818          | 4           | Standard |
| [ Pb    | 208  | 0.109      | ug/L  | 0.002    | 2         | 86            | 4911          | 2           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 15:19:12

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 29859         | 137501        | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319739       | 11319280      | 5           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 534549        | 573507        | 2           | Standard |
| Cr      | 52   | 0.796      | ug/L  | 0.071    | 8         | 16833         | 33011         | 2           | Standard |
| Cr      | 53   | 3.997      | ug/L  | 0.165    | 4         | 189           | 8874          | 1           | Standard |
| Mn      | 55   | 0.089      | ug/L  | 0.003    | 3         | 1126          | 3558          | 3           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 30905         | 29098         | 0           | KED      |
| Ni      | 60   | 0.161      | ug/L  | 0.021    | 12        | 128           | 299           | 7           | KED      |
| Ni      | 62   | 0.215      | ug/L  | 0.009    | 4         | 22            | 60            | 1           | KED      |
| Cu      | 63   | 0.063      | ug/L  | 0.004    | 5         | 58            | 257           | 3           | KED      |
| Cu      | 65   | 0.062      | ug/L  | 0.011    | 18        | 30            | 126           | 15          | KED      |
| Zn      | 66   | 0.243      | ug/L  | 0.013    | 5         | 22            | 120           | 4           | KED      |
| Zn      | 67   | 0.200      | ug/L  | 0.114    | 57        | 4             | 17            | 44          | KED      |
| As      | 75   | 0.025      | ug/L  | 0.015    | 61        | 6             | 10            | 30          | KED      |
| Se      | 78   | 0.298      | ug/L  | 0.151    | 50        | 18            | 24            | 15          | KED      |
| Y       | 89   |            | ug/L  |          |           | 304032        | 320724        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 53            | 146           | 17          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8638          | 8124          | 3           | KED      |
| Cd      | 111  | 0.061      | ug/L  | 0.014    | 23        | 2             | 17            | 22          | KED      |
| Cd      | 114  | 0.053      | ug/L  | 0.011    | 19        | 5             | 36            | 15          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 433939        | 418518        | 2           | Standard |
| Ag      | 107  | 0.009      | ug/L  | 0.001    | 15        | 219           | 332           | 3           | Standard |
| Sb      | 121  | 0.044      | ug/L  | 0.004    | 8         | 54            | 522           | 7           | Standard |
| Sb      | 123  | 0.042      | ug/L  | 0.001    | 2         | 38            | 383           | 0           | Standard |
| Ba      | 135  | 0.118      | ug/L  | 0.003    | 2         | 13            | 424           | 0           | Standard |
| Ba      | 137  | 0.117      | ug/L  | 0.008    | 6         | 22            | 748           | 6           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 730524        | 731305        | 1           | Standard |
| Tl      | 205  | 0.014      | ug/L  | 0.002    | 14        | 951           | 1445          | 4           | Standard |
| Pb      | 208  | 0.036      | ug/L  | 0.001    | 3         | 86            | 1704          | 2           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 15:24:02

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 29859         | 141947        | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319739       | 11664664      | 2           | Standard |
| > Sc    | 45   |            | ug/L  |          |           | 534549        | 588772        | 0           | Standard |
| Cr      | 52   | 20.588     | ug/L  | 0.455    | 2         | 16833         | 416123        | 2           | Standard |
| Cr      | 53   | 24.112     | ug/L  | 0.225    | 0         | 189           | 53948         | 0           | Standard |
| Mn      | 55   | 19.664     | ug/L  | 0.153    | 0         | 1126          | 534577        | 1           | Standard |
| > Ge    | 72   |            | ug/L  |          |           | 30905         | 29954         | 0           | KED      |
| Ni      | 60   | 19.772     | ug/L  | 0.439    | 2         | 128           | 22621         | 2           | KED      |
| Ni      | 62   | 20.453     | ug/L  | 0.515    | 2         | 22            | 3815          | 2           | KED      |
| Cu      | 63   | 19.582     | ug/L  | 0.523    | 2         | 58            | 65014         | 2           | KED      |
| Cu      | 65   | 19.715     | ug/L  | 0.234    | 1         | 30            | 32323         | 1           | KED      |
| Zn      | 66   | 18.334     | ug/L  | 0.309    | 1         | 22            | 7723          | 1           | KED      |
| Zn      | 67   | 16.308     | ug/L  | 0.733    | 4         | 4             | 1144          | 4           | KED      |
| As      | 75   | 18.948     | ug/L  | 0.170    | 0         | 6             | 4152          | 0           | KED      |
| Se      | 78   | 0.172      | ug/L  | 0.132    | 76        | 18            | 22            | 14          | KED      |
| Y       | 89   |            | ug/L  |          |           | 304032        | 321934        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 53            | 134           | 7           | Standard |
| > In-1  | 115  |            | ug/L  |          |           | 8638          | 8118          | 2           | KED      |
| Cd      | 111  | 19.241     | ug/L  | 0.662    | 3         | 2             | 4614          | 2           | KED      |
| Cd      | 114  | 18.956     | ug/L  | 0.188    | 0         | 5             | 11188         | 1           | KED      |
| > In    | 115  |            | ug/L  |          |           | 433939        | 417920        | 1           | Standard |
| Ag      | 107  | 19.253     | ug/L  | 0.301    | 1         | 219           | 268382        | 1           | Standard |
| Sb      | 121  | 0.029      | ug/L  | 0.001    | 3         | 54            | 366           | 3           | Standard |
| Sb      | 123  | 0.035      | ug/L  | 0.004    | 11        | 38            | 325           | 9           | Standard |
| Ba      | 135  | 0.118      | ug/L  | 0.005    | 4         | 13            | 425           | 5           | Standard |
| Ba      | 137  | 0.115      | ug/L  | 0.002    | 1         | 22            | 732           | 2           | Standard |
| > Tb    | 159  |            | ug/L  |          |           | 730524        | 729741        | 1           | Standard |
| Tl      | 205  | 0.008      | ug/L  | 0.001    | 15        | 951           | 1219          | 2           | Standard |
| Pb      | 208  | 0.027      | ug/L  | 0.003    | 10        | 86            | 1293          | 8           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 15:28:46

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 29859         | 37611         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319739       | 4508218       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 534549        | 552404        | 1           | Standard |
| Cr      | 52   | 203.000    | ug/L  | 6.001    | 2         | 16833         | 3694700       | 2           | Standard |
| Cr      | 53   | 202.272    | ug/L  | 2.564    | 1         | 189           | 423143        | 0           | Standard |
| Mn      | 55   | 198.656    | ug/L  | 3.452    | 1         | 1126          | 5055583       | 0           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 30905         | 29324         | 0           | KED      |
| Ni      | 60   | 193.231    | ug/L  | 1.897    | 0         | 128           | 215354        | 1           | KED      |
| Ni      | 62   | 198.638    | ug/L  | 3.179    | 1         | 22            | 36091         | 1           | KED      |
| Cu      | 63   | 191.239    | ug/L  | 2.807    | 1         | 58            | 621108        | 1           | KED      |
| Cu      | 65   | 194.747    | ug/L  | 6.347    | 3         | 30            | 312350        | 3           | KED      |
| Zn      | 66   | 193.074    | ug/L  | 0.779    | 0         | 22            | 79422         | 0           | KED      |
| Zn      | 67   | 191.388    | ug/L  | 0.252    | 0         | 4             | 13101         | 0           | KED      |
| As      | 75   | 198.856    | ug/L  | 2.458    | 1         | 6             | 42609         | 1           | KED      |
| Se      | 78   | 190.074    | ug/L  | 1.921    | 1         | 18            | 4588          | 1           | KED      |
| Y       | 89   |            | ug/L  |          |           | 304032        | 310348        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 53            | 125           | 9           | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8638          | 8212          | 3           | KED      |
| Cd      | 111  | 190.838    | ug/L  | 5.963    | 3         | 2             | 46255         | 0           | KED      |
| Cd      | 114  | 191.453    | ug/L  | 6.634    | 3         | 5             | 114174        | 0           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 433939        | 407123        | 1           | Standard |
| Ag      | 107  | 201.213    | ug/L  | 6.033    | 2         | 219           | 2729885       | 2           | Standard |
| Sb      | 121  | 205.677    | ug/L  | 2.355    | 1         | 54            | 2158669       | 1           | Standard |
| Sb      | 123  | 198.333    | ug/L  | 5.263    | 2         | 38            | 1592184       | 1           | Standard |
| Ba      | 135  | 200.954    | ug/L  | 3.327    | 1         | 13            | 683767        | 0           | Standard |
| Ba      | 137  | 202.902    | ug/L  | 4.702    | 2         | 22            | 1225393       | 1           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 730524        | 716714        | 1           | Standard |
| Tl      | 205  | 193.967    | ug/L  | 2.775    | 1         | 951           | 6607623       | 0           | Standard |
| Pb      | 208  | 196.847    | ug/L  | 3.641    | 1         | 86            | 8737823       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 15:33:36

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 29859         | 37912         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319739       | 4442321       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 534549        | 533231        | 0           | Standard |
| Cr      | 52   | 299.515    | ug/L  | 4.032    | 1         | 16833         | 5255505       | 2           | Standard |
| Cr      | 53   | 304.625    | ug/L  | 2.690    | 0         | 189           | 615130        | 1           | Standard |
| Mn      | 55   | 302.523    | ug/L  | 3.311    | 1         | 1126          | 7431611       | 0           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 30905         | 27807         | 1           | KED      |
| Ni      | 60   | 294.951    | ug/L  | 13.811   | 4         | 128           | 311512        | 3           | KED      |
| Ni      | 62   | 299.460    | ug/L  | 6.383    | 2         | 22            | 51575         | 1           | KED      |
| Cu      | 63   | 288.698    | ug/L  | 3.306    | 1         | 58            | 888990        | 0           | KED      |
| Cu      | 65   | 286.543    | ug/L  | 2.994    | 1         | 30            | 435750        | 1           | KED      |
| Zn      | 66   | 281.527    | ug/L  | 9.192    | 3         | 22            | 109786        | 2           | KED      |
| Zn      | 67   | 281.576    | ug/L  | 8.256    | 2         | 4             | 18270         | 1           | KED      |
| As      | 75   | 301.089    | ug/L  | 7.869    | 2         | 6             | 61157         | 1           | KED      |
| Se      | 78   | 285.363    | ug/L  | 2.715    | 0         | 18            | 6523          | 1           | KED      |
| Y       | 89   |            | ug/L  |          |           | 304032        | 298518        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 53            | 186           | 7           | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8638          | 7846          | 1           | KED      |
| Cd      | 111  | 285.268    | ug/L  | 6.161    | 2         | 2             | 66094         | 0           | KED      |
| Cd      | 114  | 282.414    | ug/L  | 6.858    | 2         | 5             | 161005        | 1           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 433939        | 386876        | 0           | Standard |
| Ag      | 107  | 303.850    | ug/L  | 2.973    | 0         | 219           | 3918395       | 1           | Standard |
| Sb      | 121  | 307.296    | ug/L  | 2.127    | 0         | 54            | 3065149       | 0           | Standard |
| Sb      | 123  | 308.189    | ug/L  | 4.040    | 1         | 38            | 2351687       | 1           | Standard |
| Ba      | 135  | 308.925    | ug/L  | 5.294    | 1         | 13            | 999038        | 1           | Standard |
| Ba      | 137  | 308.309    | ug/L  | 3.549    | 1         | 22            | 1769732       | 0           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 730524        | 679450        | 0           | Standard |
| Tl      | 205  | 294.936    | ug/L  | 1.383    | 0         | 951           | 9525635       | 0           | Standard |
| Pb      | 208  | 296.500    | ug/L  | 1.198    | 0         | 86            | 12479197      | 0           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 15:41:10

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723.cal

| Analyte | Mass | Conc. Mean   | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|--------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |              | ug/L  |          |           | 29859         | 35308         | 1           | Standard |
| Cl      | 37   |              | ug/L  |          |           | 4319739       | 4463736       | 1           | Standard |
| [> Sc   | 45   |              | ug/L  |          |           | 534549        | 525918        | 2           | Standard |
| Cr      | 52   | 0.011        | ug/L  | 0.017    | 151       | 16833         | 16750         | 1           | Standard |
| Cr      | 53   | 0.035        | ug/L  | 0.003    | 8         | 189           | 255           | 0           | Standard |
| Mn      | 55   | 0.004        | ug/L  | 0.002    | 52        | 1126          | 1209          | 6           | Standard |
| [> Ge   | 72   |              | ug/L  |          |           | 30905         | 30557         | 2           | KED      |
| Ni      | 60   | 0.002        | ug/L  | 0.017    | 1100      | 128           | 128           | 12          | KED      |
| Ni      | 62   | 0.011        | ug/L  | 0.018    | 163       | 22            | 24            | 15          | KED      |
| Cu      | 63   | 0.005        | ug/L  | 0.003    | 47        | 58            | 75            | 12          | KED      |
| Cu      | 65   | 0.005        | ug/L  | 0.003    | 71        | 30            | 38            | 13          | KED      |
| Zn      | 66   | 0.016        | ug/L  | 0.023    | 149       | 22            | 28            | 33          | KED      |
| Zn      | 67   | -0.026       | ug/L  | 0.016    | 63        | 4             | 2             | 43          | KED      |
| As      | 75   | 0.010        | ug/L  | 0.002    | 17        | 6             | 8             | 6           | KED      |
| Se      | 78   | -0.007       | ug/L  | 0.064    | 894       | 18            | 17            | 9           | KED      |
| Y       | 89   |              | ug/L  |          |           | 304032        | 298183        | 3           | Standard |
| Kr      | 83   |              | ug/L  |          |           | 53            | 42            | 24          | Standard |
| [> In-1 | 115  |              | ug/L  |          |           | 8638          | 8394          | 2           | KED      |
| Cd      | 111  | 0.003        | ug/L  | 0.002    | 84        | 2             | 3             | 15          | KED      |
| Cd      | 114  | -0.005       | ug/L  | 0.005    | 103       | 5             | 2             | 123         | KED      |
| [> In   | 115  |              | ug/L  |          |           | 433939        | 419075        | 2           | Standard |
| Ag      | 107  | -0.004       | ug/L  | 0.001    | 18        | 219           | 156           | 9           | Standard |
| Sb      | 121  | <u>0.187</u> | ug/L  | 0.012    | 6         | 54            | 2078          | 8           | Standard |
| Sb      | 123  | <u>0.181</u> | ug/L  | 0.004    | 2         | 38            | 1531          | 2           | Standard |
| Ba      | 135  | 0.008        | ug/L  | 0.002    | 24        | 13            | 42            | 14          | Standard |
| Ba      | 137  | 0.010        | ug/L  | 0.000    | 3         | 22            | 81            | 2           | Standard |
| [> Tb   | 159  |              | ug/L  |          |           | 730524        | 706213        | 1           | Standard |
| Tl      | 205  | 0.015        | ug/L  | 0.001    | 8         | 951           | 1420          | 1           | Standard |
| Pb      | 208  | 0.002        | ug/L  | 0.000    | 20        | 86            | 181           | 10          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 15:47:55

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 29859         | 35650         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319739       | 4436713       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 534549        | 538488        | 2           | Standard |
| Cr      | 52   | 0.046      | ug/L  | 0.110    | 240       | 16833         | 17731         | 8           | Standard |
| Cr      | 53   | 0.080      | ug/L  | 0.103    | 129       | 189           | 351           | 56          | Standard |
| Mn      | 55   | 0.053      | ug/L  | 0.092    | 175       | 1126          | 2401          | 91          | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 30905         | 30422         | 4           | KED      |
| Ni      | 60   | 0.000      | ug/L  | 0.002    | 8342      | 128           | 126           | 6           | KED      |
| Ni      | 62   | 0.006      | ug/L  | 0.040    | 655       | 22            | 23            | 28          | KED      |
| Cu      | 63   | -0.003     | ug/L  | 0.002    | 75        | 58            | 48            | 9           | KED      |
| Cu      | 65   | 0.002      | ug/L  | 0.004    | 164       | 30            | 33            | 19          | KED      |
| Zn      | 66   | 0.007      | ug/L  | 0.008    | 113       | 22            | 24            | 15          | KED      |
| Zn      | 67   | -0.035     | ug/L  | 0.046    | 131       | 4             | 1             | 173         | KED      |
| As      | 75   | 0.007      | ug/L  | 0.009    | 122       | 6             | 7             | 22          | KED      |
| [ Se    | 78   | 0.069      | ug/L  | 0.058    | 84        | 18            | 19            | 9           | KED      |
| Y       | 89   |            | ug/L  |          |           | 304032        | 302900        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 53            | 57            | 5           | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8638          | 8547          | 1           | KED      |
| Cd      | 111  | -0.001     | ug/L  | 0.004    | 384       | 2             | 2             | 43          | KED      |
| Cd      | 114  | -0.001     | ug/L  | 0.005    | 603       | 5             | 4             | 57          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 433939        | 426582        | 0           | Standard |
| Ag      | 107  | 0.029      | ug/L  | 0.058    | 198       | 219           | 629           | 130         | Standard |
| Sb      | 121  | 0.114      | ug/L  | 0.102    | 89        | 54            | 1301          | 85          | Standard |
| Sb      | 123  | 0.125      | ug/L  | 0.113    | 89        | 38            | 1088          | 86          | Standard |
| Ba      | 135  | 0.073      | ug/L  | 0.121    | 164       | 13            | 273           | 156         | Standard |
| [ Ba    | 137  | 0.065      | ug/L  | 0.105    | 161       | 22            | 433           | 152         | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 730524        | 710638        | 1           | Standard |
| Tl      | 205  | 0.066      | ug/L  | 0.103    | 155       | 951           | 3177          | 110         | Standard |
| [ Pb    | 208  | 0.062      | ug/L  | 0.105    | 170       | 86            | 2828          | 165         | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 15:52:46

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 29859         | 31781         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319739       | 4567992       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 534549        | 547411        | 0           | Standard |
| Cr      | 52   | 50.973     | ug/L  | 0.208    | 0         | 16833         | 932410        | 0           | Standard |
| Cr      | 53   | 52.217     | ug/L  | 0.425    | 0         | 189           | 108404        | 1           | Standard |
| Mn      | 55   | 51.786     | ug/L  | 0.772    | 1         | 1126          | 1307049       | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 30905         | 31311         | 0           | KED      |
| Ni      | 60   | 48.558     | ug/L  | 0.869    | 1         | 128           | 57882         | 2           | KED      |
| Ni      | 62   | 48.297     | ug/L  | 0.925    | 1         | 22            | 9387          | 1           | KED      |
| Cu      | 63   | 49.226     | ug/L  | 0.733    | 1         | 58            | 170750        | 1           | KED      |
| Cu      | 65   | 49.234     | ug/L  | 1.165    | 2         | 30            | 84335         | 2           | KED      |
| Zn      | 66   | 49.553     | ug/L  | 0.965    | 1         | 22            | 21781         | 1           | KED      |
| Zn      | 67   | 51.115     | ug/L  | 1.179    | 2         | 4             | 3739          | 2           | KED      |
| As      | 75   | 49.259     | ug/L  | 0.617    | 1         | 6             | 11274         | 1           | KED      |
| [ Se    | 78   | 49.418     | ug/L  | 1.501    | 3         | 18            | 1287          | 3           | KED      |
| Y       | 89   |            | ug/L  |          |           | 304032        | 310526        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 53            | 74            | 20          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8638          | 8473          | 0           | KED      |
| Cd      | 111  | 50.347     | ug/L  | 0.547    | 1         | 2             | 12602         | 0           | KED      |
| Cd      | 114  | 50.354     | ug/L  | 0.509    | 1         | 5             | 31013         | 1           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 433939        | 422753        | 0           | Standard |
| Ag      | 107  | 51.601     | ug/L  | 0.701    | 1         | 219           | 727274        | 0           | Standard |
| Sb      | 121  | 49.805     | ug/L  | 0.745    | 1         | 54            | 542901        | 1           | Standard |
| Sb      | 123  | 49.797     | ug/L  | 0.270    | 0         | 38            | 415255        | 0           | Standard |
| Ba      | 135  | 50.146     | ug/L  | 0.603    | 1         | 13            | 177229        | 1           | Standard |
| [ Ba    | 137  | 50.082     | ug/L  | 0.697    | 1         | 22            | 314158        | 1           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 730524        | 741690        | 2           | Standard |
| Tl      | 205  | 47.921     | ug/L  | 1.461    | 3         | 951           | 1689556       | 1           | Standard |
| [ Pb    | 208  | 48.467     | ug/L  | 1.106    | 2         | 86            | 2226098       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 16:00:21

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 29859         | 31463         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319739       | 4432108       | 2           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 534549        | 528091        | 0           | Standard |
| Cr      | 52   | 0.007      | ug/L  | 0.023    | 309       | 16833         | 16757         | 1           | Standard |
| Cr      | 53   | 0.009      | ug/L  | 0.005    | 51        | 189           | 205           | 3           | Standard |
| Mn      | 55   | 0.004      | ug/L  | 0.001    | 26        | 1126          | 1199          | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 30905         | 29552         | 0           | KED      |
| Ni      | 60   | 0.005      | ug/L  | 0.019    | 380       | 128           | 128           | 16          | KED      |
| Ni      | 62   | -0.015     | ug/L  | 0.018    | 116       | 22            | 19            | 17          | KED      |
| Cu      | 63   | 0.003      | ug/L  | 0.003    | 86        | 58            | 66            | 13          | KED      |
| Cu      | 65   | -0.003     | ug/L  | 0.006    | 232       | 30            | 24            | 40          | KED      |
| Zn      | 66   | 0.004      | ug/L  | 0.004    | 114       | 22            | 22            | 8           | KED      |
| Zn      | 67   | -0.025     | ug/L  | 0.016    | 64        | 4             | 2             | 43          | KED      |
| As      | 75   | 0.014      | ug/L  | 0.014    | 101       | 6             | 8             | 34          | KED      |
| Se      | 78   | 0.124      | ug/L  | 0.186    | 150       | 18            | 20            | 21          | KED      |
| Y       | 89   |            | ug/L  |          |           | 304032        | 292128        | 3           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 53            | 50            | 21          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8638          | 8368          | 0           | KED      |
| Cd      | 111  | 0.017      | ug/L  | 0.010    | 57        | 2             | 6             | 34          | KED      |
| Cd      | 114  | -0.004     | ug/L  | 0.002    | 49        | 5             | 3             | 35          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 433939        | 418683        | 0           | Standard |
| Ag      | 107  | -0.009     | ug/L  | 0.000    | 3         | 219           | 85            | 4           | Standard |
| Sb      | 121  | 0.070      | ug/L  | 0.003    | 4         | 54            | 803           | 4           | Standard |
| Sb      | 123  | 0.068      | ug/L  | 0.002    | 3         | 38            | 600           | 3           | Standard |
| Ba      | 135  | 0.001      | ug/L  | 0.001    | 84        | 13            | 15            | 12          | Standard |
| Ba      | 137  | -0.000     | ug/L  | 0.001    | 513       | 22            | 20            | 42          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 730524        | 701949        | 0           | Standard |
| Tl      | 205  | 0.004      | ug/L  | 0.001    | 27        | 951           | 1034          | 2           | Standard |
| Pb      | 208  | 0.000      | ug/L  | 0.000    | 18        | 86            | 103           | 3           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 16:09:33

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           |               | 30728         | 3           | Standard |
| Cl      | 37   |            | ug/L  |          |           |               | 4438068       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           |               | 546109        | 0           | Standard |
| Cr      | 52   |            | ug/L  |          |           |               | 17159         | 1           | Standard |
| Cr      | 53   |            | ug/L  |          |           |               | 216           | 7           | Standard |
| Mn      | 55   |            | ug/L  |          |           |               | 1132          | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           |               | 29835         | 0           | KED      |
| Ni      | 60   |            | ug/L  |          |           |               | 138           | 23          | KED      |
| Ni      | 62   |            | ug/L  |          |           |               | 33            | 14          | KED      |
| Cu      | 63   |            | ug/L  |          |           |               | 80            | 9           | KED      |
| Cu      | 65   |            | ug/L  |          |           |               | 24            | 7           | KED      |
| Zn      | 66   |            | ug/L  |          |           |               | 43            | 5           | KED      |
| Zn      | 67   |            | ug/L  |          |           |               | 3             | 100         | KED      |
| As      | 75   |            | ug/L  |          |           |               | 16            | 17          | KED      |
| Se      | 78   |            | ug/L  |          |           |               | 19            | 20          | KED      |
| Y       | 89   |            | ug/L  |          |           |               | 297640        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           |               | 48            | 9           | Standard |
| [> In-1 | 115  |            | ug/L  |          |           |               | 8217          | 1           | KED      |
| Cd      | 111  |            | ug/L  |          |           |               | 4             | 26          | KED      |
| Cd      | 114  |            | ug/L  |          |           |               | 2             | 46          | KED      |
| [> In   | 115  |            | ug/L  |          |           |               | 413136        | 2           | Standard |
| Ag      | 107  |            | ug/L  |          |           |               | 89            | 3           | Standard |
| Ba      | 135  |            | ug/L  |          |           |               | 37            | 10          | Standard |
| Ba      | 137  |            | ug/L  |          |           |               | 46            | 24          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           |               | 720127        | 1           | Standard |
| Pb      | 208  |            | ug/L  |          |           |               | 200           | 11          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 16:14:17

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 31157         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4572001       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 544643        | 5           | Standard |
| Cr      | 52   | 51.263     | ug/L  | 2.368    | 4         | 17159         | 931350        | 1           | Standard |
| Cr      | 53   | 51.296     | ug/L  | 2.226    | 4         | 216           | 105812        | 1           | Standard |
| Mn      | 55   | 51.754     | ug/L  | 1.933    | 3         | 1132          | 1297840       | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 30870         | 1           | KED      |
| Ni      | 60   | 48.285     | ug/L  | 0.879    | 1         | 138           | 56760         | 2           | KED      |
| Ni      | 62   | 49.093     | ug/L  | 1.139    | 2         | 33            | 9417          | 0           | KED      |
| Cu      | 63   | 49.619     | ug/L  | 1.790    | 3         | 80            | 169733        | 4           | KED      |
| Cu      | 65   | 49.203     | ug/L  | 0.410    | 0         | 24            | 83081         | 0           | KED      |
| Zn      | 66   | 49.963     | ug/L  | 0.420    | 0         | 43            | 21674         | 1           | KED      |
| Zn      | 67   | 49.348     | ug/L  | 1.180    | 2         | 3             | 3558          | 2           | KED      |
| As      | 75   | 49.341     | ug/L  | 0.266    | 0         | 16            | 11145         | 2           | KED      |
| [ Se    | 78   | 49.069     | ug/L  | 1.009    | 2         | 19            | 1263          | 3           | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 298566        | 5           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 67            | 25          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 8586          | 0           | KED      |
| Cd      | 111  | 49.093     | ug/L  | 1.063    | 2         | 4             | 12453         | 1           | KED      |
| Cd      | 114  | 48.650     | ug/L  | 0.205    | 0         | 2             | 30361         | 1           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 410741        | 6           | Standard |
| Ag      | 107  | 51.750     | ug/L  | 2.496    | 4         | 89            | 707012        | 2           | Standard |
| Ba      | 135  | 52.477     | ug/L  | 2.746    | 5         | 37            | 179787        | 1           | Standard |
| [ Ba    | 137  | 50.876     | ug/L  | 2.826    | 5         | 46            | 309312        | 1           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 707934        | 4           | Standard |
| [ Pb    | 208  | 51.689     | ug/L  | 2.224    | 4         | 200           | 2263987       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 16:21:45

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 31020         | 3           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4512376       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 534788        | 1           | Standard |
| Cr      | 52   | -0.004     | ug/L  | 0.008    | 211       | 17159         | 16737         | 1           | Standard |
| Cr      | 53   | -0.009     | ug/L  | 0.014    | 150       | 216           | 193           | 13          | Standard |
| Mn      | 55   | -0.003     | ug/L  | 0.001    | 34        | 1132          | 1041          | 2           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 30002         | 2           | KED      |
| Ni      | 60   | -0.022     | ug/L  | 0.012    | 55        | 138           | 114           | 12          | KED      |
| Ni      | 62   | -0.032     | ug/L  | 0.011    | 35        | 33            | 27            | 7           | KED      |
| Cu      | 63   | -0.009     | ug/L  | 0.001    | 10        | 80            | 52            | 4           | KED      |
| Cu      | 65   | 0.007      | ug/L  | 0.008    | 119       | 24            | 35            | 35          | KED      |
| Zn      | 66   | -0.044     | ug/L  | 0.027    | 61        | 43            | 24            | 46          | KED      |
| Zn      | 67   | 0.018      | ug/L  | 0.042    | 230       | 3             | 5             | 57          | KED      |
| As      | 75   | -0.030     | ug/L  | 0.007    | 23        | 16            | 9             | 15          | KED      |
| [ Se    | 78   | -0.065     | ug/L  | 0.118    | 180       | 19            | 18            | 17          | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 305261        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 43            | 18          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 8300          | 1           | KED      |
| Cd      | 111  | -0.008     | ug/L  | 0.002    | 29        | 4             | 2             | 24          | KED      |
| Cd      | 114  | 0.002      | ug/L  | 0.003    | 138       | 2             | 3             | 50          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 422142        | 2           | Standard |
| Ag      | 107  | -0.001     | ug/L  | 0.001    | 35        | 89            | 70            | 9           | Standard |
| Ba      | 135  | -0.004     | ug/L  | 0.002    | 60        | 37            | 24            | 33          | Standard |
| [ Ba    | 137  | -0.001     | ug/L  | 0.002    | 142       | 46            | 40            | 28          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 705094        | 2           | Standard |
| [ Pb    | 208  | 0.000      | ug/L  | 0.000    | 58        | 200           | 210           | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0180-BLK1**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, April 07, 2023 16:27:56**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30728         | 41310         | 1           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4438068       | 4438081       | 1           | Standard |
| > Sc    | 45   |               | ug/L  |          |           | 546109        | 540509        | 1           | Standard |
| Cr      | 52   | <b>0.090</b>  | ug/L  | 0.033    | 36        | 17159         | 18580         | 2           | Standard |
| Cr      | 53   | <b>0.048</b>  | ug/L  | 0.012    | 25        | 216           | 312           | 6           | Standard |
| Mn      | 55   | <b>0.061</b>  | ug/L  | 0.004    | 5         | 1132          | 2650          | 2           | Standard |
| > Ge    | 72   |               | ug/L  |          |           | 29835         | 30773         | 1           | KED      |
| Ni      | 60   | <b>0.024</b>  | ug/L  | 0.018    | 73        | 138           | 170           | 10          | KED      |
| Ni      | 62   | <b>-0.059</b> | ug/L  | 0.032    | 54        | 33            | 23            | 26          | KED      |
| Cu      | 63   | <b>0.066</b>  | ug/L  | 0.003    | 5         | 80            | 306           | 2           | KED      |
| Cu      | 65   | <b>0.061</b>  | ug/L  | 0.005    | 7         | 24            | 128           | 5           | KED      |
| Zn      | 66   | <b>0.334</b>  | ug/L  | 0.020    | 6         | 43            | 188           | 4           | KED      |
| Zn      | 67   | <b>0.318</b>  | ug/L  | 0.120    | 37        | 3             | 26            | 31          | KED      |
| As      | 75   | <b>-0.035</b> | ug/L  | 0.005    | 15        | 16            | 8             | 12          | KED      |
| Se      | 78   | <b>-0.037</b> | ug/L  | 0.194    | 525       | 19            | 19            | 24          | KED      |
| Y       | 89   |               | ug/L  |          |           | 297640        | 301555        | 1           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 52            | 26          | Standard |
| > In-1  | 115  |               | ug/L  |          |           | 8217          | 8547          | 2           | KED      |
| Cd      | 111  | <b>-0.007</b> | ug/L  | 0.006    | 79        | 4             | 2             | 57          | KED      |
| Cd      | 114  | <b>0.007</b>  | ug/L  | 0.005    | 65        | 2             | 6             | 43          | KED      |
| > In    | 115  |               | ug/L  |          |           | 413136        | 423762        | 0           | Standard |
| Ag      | 107  | <b>-0.002</b> | ug/L  | 0.000    | 18        | 89            | 67            | 7           | Standard |
| Ba      | 135  | <b>0.048</b>  | ug/L  | 0.003    | 6         | 37            | 210           | 5           | Standard |
| Ba      | 137  | <b>0.050</b>  | ug/L  | 0.002    | 3         | 46            | 360           | 3           | Standard |
| > Tb    | 159  |               | ug/L  |          |           | 720127        | 717516        | 1           | Standard |
| Pb      | 208  | <b>0.003</b>  | ug/L  | 0.000    | 15        | 200           | 327           | 6           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0180-BS1**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, April 07, 2023 16:32:40**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30728         | 43066         | 0           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4438068       | 4539114       | 0           | Standard |
| > Sc    | 45   |               | ug/L  |          |           | 546109        | 565807        | 1           | Standard |
| Cr      | 52   | <b>25.748</b> | ug/L  | 0.801    | 3         | 17159         | 495453        | 1           | Standard |
| Cr      | 53   | <b>25.352</b> | ug/L  | 0.399    | 1         | 216           | 54517         | 0           | Standard |
| Mn      | 55   | <b>25.425</b> | ug/L  | 0.522    | 2         | 1132          | 663680        | 0           | Standard |
| > Ge    | 72   |               | ug/L  |          |           | 29835         | 30399         | 1           | KED      |
| Ni      | 60   | <b>25.464</b> | ug/L  | 0.193    | 0         | 138           | 29541         | 1           | KED      |
| Ni      | 62   | <b>24.902</b> | ug/L  | 0.431    | 1         | 33            | 4721          | 1           | KED      |
| Cu      | 63   | <b>25.403</b> | ug/L  | 0.752    | 2         | 80            | 85576         | 1           | KED      |
| Cu      | 65   | <b>25.783</b> | ug/L  | 0.130    | 0         | 24            | 42886         | 1           | KED      |
| Zn      | 66   | <b>84.758</b> | ug/L  | 3.569    | 4         | 43            | 36162         | 2           | KED      |
| Zn      | 67   | <b>77.500</b> | ug/L  | 1.469    | 1         | 3             | 5500          | 0           | KED      |
| As      | 75   | <b>25.216</b> | ug/L  | 0.316    | 1         | 16            | 5616          | 1           | KED      |
| Se      | 78   | <b>80.139</b> | ug/L  | 3.251    | 4         | 19            | 2017          | 2           | KED      |
| Y       | 89   |               | ug/L  |          |           | 297640        | 307544        | 1           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 54            | 21          | Standard |
| > In-1  | 115  |               | ug/L  |          |           | 8217          | 8465          | 3           | KED      |
| Cd      | 111  | <b>25.351</b> | ug/L  | 0.738    | 2         | 4             | 6338          | 0           | KED      |
| Cd      | 114  | <b>25.442</b> | ug/L  | 0.609    | 2         | 2             | 15646         | 1           | KED      |
| > In    | 115  |               | ug/L  |          |           | 413136        | 424149        | 2           | Standard |
| Ag      | 107  | <b>26.002</b> | ug/L  | 0.643    | 2         | 89            | 367568        | 1           | Standard |
| Ba      | 135  | <b>26.011</b> | ug/L  | 0.317    | 1         | 37            | 92249         | 1           | Standard |
| Ba      | 137  | <b>25.650</b> | ug/L  | 0.267    | 1         | 46            | 161448        | 1           | Standard |
| > Tb    | 159  |               | ug/L  |          |           | 720127        | 732910        | 1           | Standard |
| Pb      | 208  | <b>25.481</b> | ug/L  | 0.678    | 2         | 200           | 1156665       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23D0087-01**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Friday, April 07, 2023 16:40:54**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30728         | 41612         | 3           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4438068       | 4677097       | 0           | Standard |
| > Sc    | 45   |               | ug/L  |          |           | 546109        | 548583        | 2           | Standard |
| Cr      | 52   | <b>0.147</b>  | ug/L  | 0.019    | 12        | 17159         | 19873         | 1           | Standard |
| Cr      | 53   | <b>0.111</b>  | ug/L  | 0.007    | 6         | 216           | 449           | 5           | Standard |
| Mn      | 55   | <b>11.718</b> | ug/L  | 0.420    | 3         | 1132          | 297108        | 1           | Standard |
| > Ge    | 72   |               | ug/L  |          |           | 29835         | 31456         | 0           | KED      |
| Ni      | 60   | <b>0.468</b>  | ug/L  | 0.043    | 9         | 138           | 704           | 6           | KED      |
| Ni      | 62   | <b>0.437</b>  | ug/L  | 0.080    | 18        | 33            | 120           | 13          | KED      |
| Cu      | 63   | <b>4.180</b>  | ug/L  | 0.039    | 0         | 80            | 14648         | 1           | KED      |
| Cu      | 65   | <b>4.198</b>  | ug/L  | 0.146    | 3         | 24            | 7245          | 2           | KED      |
| Zn      | 66   | <b>1.988</b>  | ug/L  | 0.068    | 3         | 43            | 922           | 2           | KED      |
| Zn      | 67   | <b>1.883</b>  | ug/L  | 0.093    | 4         | 3             | 142           | 4           | KED      |
| As      | 75   | <b>0.007</b>  | ug/L  | 0.029    | 407       | 16            | 18            | 35          | KED      |
| Se      | 78   | <b>-0.092</b> | ug/L  | 0.162    | 176       | 19            | 18            | 22          | KED      |
| Y       | 89   |               | ug/L  |          |           | 297640        | 310718        | 0           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 57            | 8           | Standard |
| > In-1  | 115  |               | ug/L  |          |           | 8217          | 8601          | 1           | KED      |
| Cd      | 111  | <b>-0.002</b> | ug/L  | 0.007    | 339       | 4             | 3             | 43          | KED      |
| Cd      | 114  | <b>0.006</b>  | ug/L  | 0.002    | 29        | 2             | 6             | 16          | KED      |
| > In    | 115  |               | ug/L  |          |           | 413136        | 425290        | 2           | Standard |
| Ag      | 107  | <b>-0.002</b> | ug/L  | 0.001    | 41        | 89            | 67            | 14          | Standard |
| Ba      | 135  | <b>1.215</b>  | ug/L  | 0.028    | 2         | 37            | 4356          | 2           | Standard |
| Ba      | 137  | <b>1.199</b>  | ug/L  | 0.014    | 1         | 46            | 7612          | 1           | Standard |
| > Tb    | 159  |               | ug/L  |          |           | 720127        | 724330        | 0           | Standard |
| Pb      | 208  | <b>0.014</b>  | ug/L  | 0.001    | 9         | 200           | 848           | 6           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23D0001-01**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, April 07, 2023 16:50:22**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 59036         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4513825       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 566898        | 1           | Standard |
| Cr      | 52   | 1.072      | ug/L  | 0.025    | 2         | 17159         | 37744         | 0           | Standard |
| Cr      | 53   | 1.080      | ug/L  | 0.007    | 0         | 216           | 2543          | 2           | Standard |
| Mn      | 55   | 30.137     | ug/L  | 0.705    | 2         | 1132          | 788028        | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 30760         | 1           | KED      |
| Ni      | 60   | 0.877      | ug/L  | 0.025    | 2         | 138           | 1167          | 2           | KED      |
| Ni      | 62   | 0.831      | ug/L  | 0.040    | 4         | 33            | 193           | 4           | KED      |
| Cu      | 63   | 10.974     | ug/L  | 0.291    | 2         | 80            | 37459         | 1           | KED      |
| Cu      | 65   | 11.000     | ug/L  | 0.184    | 1         | 24            | 18527         | 1           | KED      |
| Zn      | 66   | 153.299    | ug/L  | 1.070    | 0         | 43            | 66171         | 0           | KED      |
| Zn      | 67   | 139.493    | ug/L  | 1.494    | 1         | 3             | 10016         | 0           | KED      |
| As      | 75   | 0.323      | ug/L  | 0.015    | 4         | 16            | 89            | 3           | KED      |
| Se      | 78   | -0.026     | ug/L  | 0.242    | 947       | 19            | 19            | 31          | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 320336        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 52            | 32          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 8606          | 0           | KED      |
| Cd      | 111  | 0.083      | ug/L  | 0.046    | 55        | 4             | 25            | 45          | KED      |
| Cd      | 114  | 0.108      | ug/L  | 0.008    | 7         | 2             | 69            | 6           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 430522        | 1           | Standard |
| Ag      | 107  | 0.028      | ug/L  | 0.001    | 4         | 89            | 488           | 4           | Standard |
| Ba      | 135  | 20.189     | ug/L  | 0.450    | 2         | 37            | 72678         | 0           | Standard |
| Ba      | 137  | 20.370     | ug/L  | 0.591    | 2         | 46            | 130131        | 1           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 721457        | 0           | Standard |
| Pb      | 208  | 1.023      | ug/L  | 0.008    | 0         | 200           | 45928         | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0770-01**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 16:57:41**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte   | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|-----------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C         | 13   |               | ug/L  |          |           | 30728         | 34992         | 1           | Standard |
| Cl        | 37   |               | ug/L  |          |           | 4438068       | 29491923      | 0           | Standard |
| [> Sc     | 45   |               | ug/L  |          |           | 546109        | 509689        | 2           | Standard |
| Cr        | 52   | <b>0.570</b>  | ug/L  | 0.040    | 7         | 17159         | 25526         | 0           | Standard |
| Cr        | 53   | <b>18.890</b> | ug/L  | 0.103    | 0         | 216           | 36647         | 1           | Standard |
| Mn        | 55   | <b>0.435</b>  | ug/L  | 0.012    | 2         | 1132          | 11274         | 0           | Standard |
| [> Ge     | 72   |               | ug/L  |          |           | 29835         | 24910         | 1           | KED      |
| Ni        | 60   | <b>-0.044</b> | ug/L  | 0.008    | 18        | 138           | 74            | 9           | KED      |
| Ni        | 62   | <b>0.869</b>  | ug/L  | 0.117    | 13        | 33            | 161           | 9           | KED      |
| <b>Cu</b> | 63   | <b>0.161</b>  | ug/L  | 0.006    | 3         | 80            | 512           | 2           | KED      |
| Cu        | 65   | <b>0.112</b>  | ug/L  | 0.012    | 10        | 24            | 173           | 10          | KED      |
| <b>Zn</b> | 66   | <b>0.173</b>  | ug/L  | 0.012    | 7         | 43            | 96            | 6           | KED      |
| Zn        | 67   | <b>0.361</b>  | ug/L  | 0.089    | 24        | 3             | 24            | 19          | KED      |
| As        | 75   | <b>0.097</b>  | ug/L  | 0.014    | 14        | 16            | 31            | 7           | KED      |
| Se        | 78   | <b>0.324</b>  | ug/L  | 0.082    | 25        | 19            | 23            | 8           | KED      |
| Y         | 89   |               | ug/L  |          |           | 297640        | 272605        | 2           | Standard |
| Kr        | 83   |               | ug/L  |          |           | 48            | 1158          | 5           | Standard |
| [> In-1   | 115  |               | ug/L  |          |           | 8217          | 6968          | 2           | KED      |
| Cd        | 111  | <b>0.008</b>  | ug/L  | 0.006    | 76        | 4             | 5             | 21          | KED      |
| Cd        | 114  | <b>0.008</b>  | ug/L  | 0.004    | 49        | 2             | 6             | 34          | KED      |
| [> In     | 115  |               | ug/L  |          |           | 413136        | 349164        | 1           | Standard |
| Ag        | 107  | <b>-0.001</b> | ug/L  | 0.001    | 113       | 89            | 68            | 12          | Standard |
| Ba        | 135  | <b>0.585</b>  | ug/L  | 0.026    | 4         | 37            | 1738          | 4           | Standard |
| Ba        | 137  | <b>0.599</b>  | ug/L  | 0.003    | 0         | 46            | 3144          | 1           | Standard |
| [> Tb     | 159  |               | ug/L  |          |           | 720127        | 659554        | 1           | Standard |
| <b>Pb</b> | 208  | <b>0.006</b>  | ug/L  | 0.000    | 6         | 200           | 447           | 3           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0539-01RE1**

Sample Dil Factor: **5**

Comments:

Sample Date/Time: **Friday, April 07, 2023 17:06:49**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 35337         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4491043       | 0           | Standard |
| > Sc    | 45   |            | ug/L  |          |           | 546109        | 552201        | 0           | Standard |
| Cr      | 52   | 0.005      | ug/L  | 0.015    | 310       | 17159         | 17440         | 2           | Standard |
| Cr      | 53   | 0.236      | ug/L  | 0.006    | 2         | 216           | 712           | 0           | Standard |
| Mn      | 55   | 34.435     | ug/L  | 0.703    | 2         | 1132          | 877161        | 2           | Standard |
| > Ge    | 72   |            | ug/L  |          |           | 29835         | 30551         | 0           | KED      |
| Ni      | 60   | -0.053     | ug/L  | 0.013    | 24        | 138           | 80            | 19          | KED      |
| Ni      | 62   | -0.091     | ug/L  | 0.037    | 40        | 33            | 17            | 40          | KED      |
| Cu      | 63   | 0.010      | ug/L  | 0.007    | 66        | 80            | 116           | 19          | KED      |
| Cu      | 65   | 0.031      | ug/L  | 0.011    | 35        | 24            | 77            | 23          | KED      |
| Zn      | 66   | 0.110      | ug/L  | 0.020    | 18        | 43            | 91            | 9           | KED      |
| Zn      | 67   | 5.671      | ug/L  | 0.350    | 6         | 3             | 408           | 6           | KED      |
| As      | 75   | -0.005     | ug/L  | 0.003    | 57        | 16            | 15            | 4           | KED      |
| Se      | 78   | -0.118     | ug/L  | 0.053    | 45        | 19            | 17            | 7           | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 298775        | 3           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 50            | 22          | Standard |
| > In-1  | 115  |            | ug/L  |          |           | 8217          | 8378          | 1           | KED      |
| Cd      | 111  | 0.004      | ug/L  | 0.004    | 123       | 4             | 5             | 21          | KED      |
| Cd      | 114  | 0.004      | ug/L  | 0.002    | 46        | 2             | 4             | 22          | KED      |
| > In    | 115  |            | ug/L  |          |           | 413136        | 412295        | 1           | Standard |
| Ag      | 107  | -0.002     | ug/L  | 0.001    | 24        | 89            | 57            | 12          | Standard |
| Ba      | 135  | 57.744     | ug/L  | 1.516    | 2         | 37            | 199005        | 1           | Standard |
| Ba      | 137  | 57.627     | ug/L  | 0.699    | 1         | 46            | 352534        | 1           | Standard |
| > Tb    | 159  |            | ug/L  |          |           | 720127        | 714623        | 1           | Standard |
| Pb      | 208  | 0.000      | ug/L  | 0.000    | 75        | 200           | 213           | 5           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0101-DUP3**

Sample Dil Factor: **5**

Comments:

Sample Date/Time: **Friday, April 07, 2023 17:11:39**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 36395         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4545602       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 551673        | 1           | Standard |
| Cr      | 52   | -0.012     | ug/L  | 0.012    | 98        | 17159         | 17114         | 0           | Standard |
| Cr      | 53   | 0.131      | ug/L  | 0.004    | 3         | 216           | 491           | 0           | Standard |
| Mn      | 55   | 33.282     | ug/L  | 0.624    | 1         | 1132          | 846749        | 0           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 29989         | 1           | KED      |
| Ni      | 60   | -0.043     | ug/L  | 0.014    | 32        | 138           | 89            | 17          | KED      |
| Ni      | 62   | -0.056     | ug/L  | 0.024    | 42        | 33            | 23            | 20          | KED      |
| Cu      | 63   | 0.003      | ug/L  | 0.005    | 188       | 80            | 89            | 16          | KED      |
| Cu      | 65   | 0.022      | ug/L  | 0.004    | 16        | 24            | 60            | 11          | KED      |
| Zn      | 66   | 0.087      | ug/L  | 0.021    | 24        | 43            | 80            | 12          | KED      |
| Zn      | 67   | 5.771      | ug/L  | 0.100    | 1         | 3             | 407           | 1           | KED      |
| As      | 75   | -0.010     | ug/L  | 0.011    | 111       | 16            | 14            | 15          | KED      |
| Se      | 78   | -0.045     | ug/L  | 0.084    | 186       | 19            | 18            | 12          | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 304207        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 45            | 4           | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 8066          | 3           | KED      |
| Cd      | 111  | 0.006      | ug/L  | 0.009    | 156       | 4             | 5             | 36          | KED      |
| Cd      | 114  | 0.002      | ug/L  | 0.003    | 134       | 2             | 3             | 49          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 414333        | 2           | Standard |
| Ag      | 107  | -0.003     | ug/L  | 0.000    | 13        | 89            | 42            | 16          | Standard |
| Ba      | 135  | 55.567     | ug/L  | 1.137    | 2         | 37            | 192430        | 0           | Standard |
| Ba      | 137  | 55.900     | ug/L  | 0.968    | 1         | 46            | 343595        | 1           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 704876        | 1           | Standard |
| Pb      | 208  | -0.001     | ug/L  | 0.000    | 21        | 200           | 170           | 2           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0101-MS3**

Sample Dil Factor: **5**

Comments:

Sample Date/Time: **Friday, April 07, 2023 17:16:23**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte                      | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|------------------------------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C                            | 13   |               | ug/L  |          |           | 30728         | 35669         | 3           | Standard |
| Cl                           | 37   |               | ug/L  |          |           | 4438068       | 4563265       | 1           | Standard |
| [> Sc                        | 45   |               | ug/L  |          |           | 546109        | 535132        | 1           | Standard |
| Cr                           | 52   | 5.488         | ug/L  | 0.112    | 2         | 17159         | 113121        | 0           | Standard |
| Cr                           | 53   | 5.639         | ug/L  | 0.104    | 1         | 216           | 11634         | 1           | Standard |
| Mn                           | 55   | 37.671        | ug/L  | 0.292    | 0         | 1132          | 929648        | 1           | Standard |
| [> Ge                        | 72   |               | ug/L  |          |           | 29835         | 29678         | 1           | KED      |
| Ni                           | 60   | 5.157         | ug/L  | 0.083    | 1         | 138           | 5950          | 1           | KED      |
| Ni                           | 62   | 5.429         | ug/L  | 0.488    | 8         | 33            | 1031          | 8           | KED      |
| Cu                           | 63   | 5.440         | ug/L  | 0.095    | 1         | 80            | 17960         | 2           | KED      |
| Cu                           | 65   | 5.542         | ug/L  | 0.099    | 1         | 24            | 9018          | 1           | KED      |
| Zn                           | 66   | 17.637        | ug/L  | 0.379    | 2         | 43            | 7382          | 1           | KED      |
| Zn                           | 67   | 21.698        | ug/L  | 0.451    | 2         | 3             | 1506          | 3           | KED      |
| As                           | 75   | 5.636         | ug/L  | 0.098    | 1         | 16            | 1238          | 2           | KED      |
| [ Se                         | 78   | 17.296        | ug/L  | 0.164    | 0         | 19            | 440           | 0           | KED      |
| Y                            | 89   |               | ug/L  |          |           | 297640        | 295038        | 1           | Standard |
| Kr                           | 83   |               | ug/L  |          |           | 48            | 52            | 13          | Standard |
| [> In-1                      | 115  |               | ug/L  |          |           | 8217          | 8286          | 0           | KED      |
| Cd                           | 111  | 5.356         | ug/L  | 0.215    | 4         | 4             | 1314          | 4           | KED      |
| Cd                           | 114  | 5.449         | ug/L  | 0.155    | 2         | 2             | 3283          | 2           | KED      |
| [> In                        | 115  |               | ug/L  |          |           | 413136        | 405532        | 0           | Standard |
| Ag                           | 107  | 5.597         | ug/L  | 0.048    | 0         | 89            | 75743         | 1           | Standard |
| <b>Ba</b> <small>STL</small> | 135  | <b>61.114</b> | ug/L  | 0.288    | 0         | 37            | 207211        | 0           | Standard |
| [ Ba                         | 137  | 59.485        | ug/L  | 0.929    | 1         | 46            | 357975        | 1           | Standard |
| [> Tb                        | 159  |               | ug/L  |          |           | 720127        | 708193        | 2           | Standard |
| [ Pb                         | 208  | 5.415         | ug/L  | 0.098    | 1         | 200           | 237675        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0101-MSD3**

Sample Dil Factor: **5**

Comments:

Sample Date/Time: **Friday, April 07, 2023 17:21:06**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 36105         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4486261       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 529193        | 3           | Standard |
| Cr      | 52   | 5.509      | ug/L  | 0.073    | 1         | 17159         | 112227        | 2           | Standard |
| Cr      | 53   | 5.627      | ug/L  | 0.108    | 1         | 216           | 11478         | 2           | Standard |
| Mn      | 55   | 38.860     | ug/L  | 0.107    | 0         | 1132          | 948347        | 2           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 29374         | 1           | KED      |
| Ni      | 60   | 5.298      | ug/L  | 0.109    | 2         | 138           | 6046          | 1           | KED      |
| Ni      | 62   | 5.398      | ug/L  | 0.273    | 5         | 33            | 1014          | 4           | KED      |
| Cu      | 63   | 5.423      | ug/L  | 0.287    | 5         | 80            | 17718         | 5           | KED      |
| Cu      | 65   | 5.473      | ug/L  | 0.143    | 2         | 24            | 8815          | 3           | KED      |
| Zn      | 66   | 17.820     | ug/L  | 0.546    | 3         | 43            | 7380          | 1           | KED      |
| Zn      | 67   | 21.997     | ug/L  | 0.469    | 2         | 3             | 1511          | 3           | KED      |
| As      | 75   | 5.458      | ug/L  | 0.121    | 2         | 16            | 1187          | 1           | KED      |
| Se      | 78   | 18.050     | ug/L  | 0.694    | 3         | 19            | 454           | 1           | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 289805        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 48            | 19          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 8181          | 2           | KED      |
| Cd      | 111  | 5.464      | ug/L  | 0.246    | 4         | 4             | 1323          | 1           | KED      |
| Cd      | 114  | 5.406      | ug/L  | 0.278    | 5         | 2             | 3214          | 4           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 408280        | 3           | Standard |
| Ag      | 107  | 5.461      | ug/L  | 0.061    | 1         | 89            | 74405         | 3           | Standard |
| Ba      | 135  | 60.755     | ug/L  | 1.314    | 2         | 37            | 207293        | 1           | Standard |
| Ba      | 137  | 60.426     | ug/L  | 1.228    | 2         | 46            | 365943        | 1           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 700400        | 4           | Standard |
| Pb      | 208  | 5.426      | ug/L  | 0.145    | 2         | 200           | 235445        | 1           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 17:25:51

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 33050         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4431282       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 497176        | 3           | Standard |
| Cr      | 52   | 0.037      | ug/L  | 0.023    | 63        | 17159         | 16208         | 1           | Standard |
| Cr      | 53   | 0.052      | ug/L  | 0.014    | 27        | 216           | 294           | 7           | Standard |
| Mn      | 55   | -0.007     | ug/L  | 0.007    | 97        | 1132          | 857           | 16          | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 28780         | 1           | KED      |
| Ni      | 60   | -0.097     | ug/L  | 0.009    | 9         | 138           | 27            | 33          | KED      |
| Ni      | 62   | -0.132     | ug/L  | 0.031    | 23        | 33            | 8             | 61          | KED      |
| Cu      | 63   | -0.005     | ug/L  | 0.004    | 66        | 80            | 60            | 19          | KED      |
| Cu      | 65   | 0.002      | ug/L  | 0.005    | 229       | 24            | 27            | 29          | KED      |
| Zn      | 66   | -0.045     | ug/L  | 0.007    | 15        | 43            | 23            | 12          | KED      |
| Zn      | 67   | -0.007     | ug/L  | 0.017    | 223       | 3             | 3             | 34          | KED      |
| As      | 75   | -0.044     | ug/L  | 0.001    | 2         | 16            | 6             | 4           | KED      |
| Se      | 78   | -0.064     | ug/L  | 0.075    | 116       | 19            | 17            | 10          | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 281848        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 57            | 10          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 7817          | 2           | KED      |
| Cd      | 111  | -0.003     | ug/L  | 0.009    | 275       | 4             | 3             | 69          | KED      |
| Cd      | 114  | 0.001      | ug/L  | 0.007    | 478       | 2             | 3             | 129         | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 394647        | 1           | Standard |
| Ag      | 107  | -0.003     | ug/L  | 0.001    | 24        | 89            | 43            | 24          | Standard |
| Ba      | 135  | 0.002      | ug/L  | 0.007    | 287       | 37            | 43            | 52          | Standard |
| Ba      | 137  | 0.007      | ug/L  | 0.006    | 87        | 46            | 82            | 41          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 668588        | 1           | Standard |
| Pb      | 208  | -0.001     | ug/L  | 0.001    | 69        | 200           | 125           | 30          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 17:30:35

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 30208         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4549164       | 2           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 536301        | 1           | Standard |
| Cr      | 52   | 49.909     | ug/L  | 0.562    | 1         | 17159         | 894754        | 1           | Standard |
| Cr      | 53   | 51.385     | ug/L  | 0.597    | 1         | 216           | 104544        | 2           | Standard |
| Mn      | 55   | 50.893     | ug/L  | 1.270    | 2         | 1132          | 1258690       | 3           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 29985         | 0           | KED      |
| Ni      | 60   | 48.242     | ug/L  | 1.068    | 2         | 138           | 55085         | 2           | KED      |
| Ni      | 62   | 48.171     | ug/L  | 1.009    | 2         | 33            | 8978          | 2           | KED      |
| Cu      | 63   | 48.501     | ug/L  | 1.144    | 2         | 80            | 161137        | 2           | KED      |
| Cu      | 65   | 49.402     | ug/L  | 0.413    | 0         | 24            | 81033         | 1           | KED      |
| Zn      | 66   | 49.498     | ug/L  | 0.516    | 1         | 43            | 20857         | 1           | KED      |
| Zn      | 67   | 50.520     | ug/L  | 1.753    | 3         | 3             | 3538          | 3           | KED      |
| As      | 75   | 49.272     | ug/L  | 0.264    | 0         | 16            | 10810         | 0           | KED      |
| [ Se    | 78   | 49.217     | ug/L  | 0.715    | 1         | 19            | 1230          | 1           | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 303337        | 4           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 51            | 32          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 8187          | 3           | KED      |
| Cd      | 111  | 50.126     | ug/L  | 1.481    | 2         | 4             | 12118         | 2           | KED      |
| Cd      | 114  | 49.639     | ug/L  | 0.188    | 0         | 2             | 29535         | 3           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 405614        | 0           | Standard |
| Ag      | 107  | 52.127     | ug/L  | 2.285    | 4         | 89            | 704864        | 4           | Standard |
| Ba      | 135  | 51.126     | ug/L  | 0.114    | 0         | 37            | 173389        | 1           | Standard |
| [ Ba    | 137  | 51.403     | ug/L  | 0.595    | 1         | 46            | 309378        | 0           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 716504        | 0           | Standard |
| [ Pb    | 208  | 48.968     | ug/L  | 0.658    | 1         | 200           | 2173564       | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 17:38:04

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 30233         | 0           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4339894       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 502391        | 1           | Standard |
| Cr      | 52   | 0.007      | ug/L  | 0.035    | 471       | 17159         | 15899         | 1           | Standard |
| Cr      | 53   | 0.028      | ug/L  | 0.002    | 6         | 216           | 253           | 3           | Standard |
| Mn      | 55   | -0.012     | ug/L  | 0.002    | 14        | 1132          | 775           | 3           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 28858         | 1           | KED      |
| Ni      | 60   | -0.090     | ug/L  | 0.010    | 10        | 138           | 34            | 31          | KED      |
| Ni      | 62   | -0.122     | ug/L  | 0.016    | 13        | 33            | 10            | 26          | KED      |
| Cu      | 63   | -0.003     | ug/L  | 0.003    | 85        | 80            | 67            | 11          | KED      |
| Cu      | 65   | 0.005      | ug/L  | 0.005    | 84        | 24            | 32            | 20          | KED      |
| Zn      | 66   | -0.034     | ug/L  | 0.018    | 53        | 43            | 27            | 28          | KED      |
| Zn      | 67   | 0.002      | ug/L  | 0.028    | 1444      | 3             | 3             | 50          | KED      |
| As      | 75   | -0.044     | ug/L  | 0.002    | 3         | 16            | 6             | 4           | KED      |
| [ Se    | 78   | -0.088     | ug/L  | 0.066    | 74        | 19            | 17            | 8           | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 284795        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 45            | 23          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 8086          | 0           | KED      |
| Cd      | 111  | 0.004      | ug/L  | 0.002    | 54        | 4             | 5             | 10          | KED      |
| Cd      | 114  | 0.000      | ug/L  | 0.005    | 8713      | 2             | 2             | 126         | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 394276        | 1           | Standard |
| Ag      | 107  | -0.002     | ug/L  | 0.001    | 78        | 89            | 60            | 31          | Standard |
| Ba      | 135  | -0.006     | ug/L  | 0.001    | 19        | 37            | 15            | 25          | Standard |
| [ Ba    | 137  | -0.001     | ug/L  | 0.001    | 44        | 46            | 36            | 10          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 676533        | 0           | Standard |
| [ Pb    | 208  | 0.001      | ug/L  | 0.001    | 83        | 200           | 213           | 9           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0055-BLK1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 17:46:21**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30728         | 40998         | 3           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4438068       | 4375531       | 1           | Standard |
| > Sc    | 45   |               | ug/L  |          |           | 546109        | 522728        | 1           | Standard |
| Cr      | 52   | <b>0.028</b>  | ug/L  | 0.015    | 52        | 17159         | 16911         | 1           | Standard |
| Cr      | 53   | <b>0.023</b>  | ug/L  | 0.009    | 36        | 216           | 253           | 5           | Standard |
| Mn      | 55   | <b>-0.012</b> | ug/L  | 0.000    | 4         | 1132          | 800           | 1           | Standard |
| > Ge    | 72   |               | ug/L  |          |           | 29835         | 29468         | 0           | KED      |
| Ni      | 60   | <b>-0.084</b> | ug/L  | 0.029    | 34        | 138           | 42            | 77          | KED      |
| Ni      | 62   | <b>-0.123</b> | ug/L  | 0.016    | 13        | 33            | 10            | 26          | KED      |
| Cu      | 63   | <b>0.005</b>  | ug/L  | 0.010    | 191       | 80            | 97            | 34          | KED      |
| Cu      | 65   | <b>0.019</b>  | ug/L  | 0.028    | 150       | 24            | 54            | 82          | KED      |
| Zn      | 66   | <b>0.098</b>  | ug/L  | 0.028    | 28        | 43            | 83            | 13          | KED      |
| Zn      | 67   | <b>0.185</b>  | ug/L  | 0.057    | 30        | 3             | 16            | 24          | KED      |
| As      | 75   | <b>-0.041</b> | ug/L  | 0.009    | 21        | 16            | 7             | 26          | KED      |
| Se      | 78   | <b>-0.075</b> | ug/L  | 0.195    | 260       | 19            | 17            | 26          | KED      |
| Y       | 89   |               | ug/L  |          |           | 297640        | 290009        | 2           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 38            | 17          | Standard |
| > In-1  | 115  |               | ug/L  |          |           | 8217          | 7928          | 2           | KED      |
| Cd      | 111  | <b>-0.002</b> | ug/L  | 0.002    | 95        | 4             | 3             | 15          | KED      |
| Cd      | 114  | <b>0.000</b>  | ug/L  | 0.005    | 1294      | 2             | 2             | 118         | KED      |
| > In    | 115  |               | ug/L  |          |           | 413136        | 413209        | 1           | Standard |
| Ag      | 107  | <b>-0.003</b> | ug/L  | 0.001    | 31        | 89            | 50            | 24          | Standard |
| Ba      | 135  | <b>0.018</b>  | ug/L  | 0.003    | 17        | 37            | 99            | 12          | Standard |
| Ba      | 137  | <b>0.016</b>  | ug/L  | 0.005    | 28        | 46            | 145           | 19          | Standard |
| > Tb    | 159  |               | ug/L  |          |           | 720127        | 700360        | 0           | Standard |
| Pb      | 208  | <b>-0.000</b> | ug/L  | 0.001    | 254       | 200           | 182           | 16          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0055-BS1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 17:51:05**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30728         | 37539         | 2           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4438068       | 4484934       | 1           | Standard |
| > Sc    | 45   |               | ug/L  |          |           | 546109        | 526769        | 0           | Standard |
| Cr      | 52   | <b>25.997</b> | ug/L  | 0.301    | 1         | 17159         | 465716        | 1           | Standard |
| Cr      | 53   | <b>26.170</b> | ug/L  | 0.391    | 1         | 216           | 52394         | 1           | Standard |
| Mn      | 55   | <b>26.697</b> | ug/L  | 0.585    | 2         | 1132          | 648906        | 2           | Standard |
| > Ge    | 72   |               | ug/L  |          |           | 29835         | 29528         | 1           | KED      |
| Ni      | 60   | <b>25.245</b> | ug/L  | 0.848    | 3         | 138           | 28439         | 1           | KED      |
| Ni      | 62   | <b>25.535</b> | ug/L  | 0.782    | 3         | 33            | 4701          | 2           | KED      |
| Cu      | 63   | <b>25.908</b> | ug/L  | 0.550    | 2         | 80            | 84786         | 1           | KED      |
| Cu      | 65   | <b>26.016</b> | ug/L  | 0.087    | 0         | 24            | 42034         | 1           | KED      |
| Zn      | 66   | <b>81.091</b> | ug/L  | 3.492    | 4         | 43            | 33604         | 2           | KED      |
| Zn      | 67   | <b>76.116</b> | ug/L  | 1.653    | 2         | 3             | 5247          | 0           | KED      |
| As      | 75   | <b>24.657</b> | ug/L  | 0.576    | 2         | 16            | 5334          | 2           | KED      |
| Se      | 78   | <b>77.457</b> | ug/L  | 1.373    | 1         | 19            | 1895          | 2           | KED      |
| Y       | 89   |               | ug/L  |          |           | 297640        | 294909        | 2           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 53            | 21          | Standard |
| > In-1  | 115  |               | ug/L  |          |           | 8217          | 8338          | 2           | KED      |
| Cd      | 111  | <b>24.366</b> | ug/L  | 0.419    | 1         | 4             | 6002          | 0           | KED      |
| Cd      | 114  | <b>24.273</b> | ug/L  | 0.413    | 1         | 2             | 14707         | 1           | KED      |
| > In    | 115  |               | ug/L  |          |           | 413136        | 409309        | 1           | Standard |
| Ag      | 107  | <b>26.967</b> | ug/L  | 0.558    | 2         | 89            | 367945        | 1           | Standard |
| Ba      | 135  | <b>26.490</b> | ug/L  | 0.382    | 1         | 37            | 90662         | 0           | Standard |
| Ba      | 137  | <b>25.834</b> | ug/L  | 0.764    | 2         | 46            | 156904        | 2           | Standard |
| > Tb    | 159  |               | ug/L  |          |           | 720127        | 702792        | 2           | Standard |
| Pb      | 208  | <b>26.064</b> | ug/L  | 0.689    | 2         | 200           | 1134367       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0123-BLK1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 17:55:49**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30728         | 39637         | 0           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4438068       | 4377874       | 1           | Standard |
| > Sc    | 45   |               | ug/L  |          |           | 546109        | 515290        | 1           | Standard |
| Cr      | 52   | <b>0.030</b>  | ug/L  | 0.008    | 26        | 17159         | 16692         | 1           | Standard |
| Cr      | 53   | <b>0.012</b>  | ug/L  | 0.006    | 52        | 216           | 228           | 4           | Standard |
| Mn      | 55   | <b>-0.011</b> | ug/L  | 0.000    | 3         | 1132          | 807           | 2           | Standard |
| > Ge    | 72   |               | ug/L  |          |           | 29835         | 29670         | 0           | KED      |
| Ni      | 60   | <b>-0.096</b> | ug/L  | 0.002    | 1         | 138           | 29            | 7           | KED      |
| Ni      | 62   | <b>-0.123</b> | ug/L  | 0.016    | 13        | 33            | 10            | 26          | KED      |
| Cu      | 63   | <b>-0.008</b> | ug/L  | 0.002    | 18        | 80            | 52            | 10          | KED      |
| Cu      | 65   | <b>0.006</b>  | ug/L  | 0.009    | 154       | 24            | 34            | 43          | KED      |
| Zn      | 66   | <b>-0.006</b> | ug/L  | 0.021    | 365       | 43            | 40            | 21          | KED      |
| Zn      | 67   | <b>0.073</b>  | ug/L  | 0.056    | 76        | 3             | 8             | 44          | KED      |
| As      | 75   | <b>-0.037</b> | ug/L  | 0.010    | 26        | 16            | 8             | 26          | KED      |
| Se      | 78   | <b>-0.040</b> | ug/L  | 0.164    | 412       | 19            | 18            | 20          | KED      |
| Y       | 89   |               | ug/L  |          |           | 297640        | 288601        | 3           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 55            | 21          | Standard |
| > In-1  | 115  |               | ug/L  |          |           | 8217          | 8101          | 2           | KED      |
| Cd      | 111  | <b>0.003</b>  | ug/L  | 0.014    | 503       | 4             | 4             | 72          | KED      |
| Cd      | 114  | <b>0.007</b>  | ug/L  | 0.003    | 52        | 2             | 6             | 34          | KED      |
| > In    | 115  |               | ug/L  |          |           | 413136        | 394744        | 2           | Standard |
| Ag      | 107  | <b>-0.001</b> | ug/L  | 0.001    | 59        | 89            | 66            | 17          | Standard |
| Ba      | 135  | <b>0.027</b>  | ug/L  | 0.001    | 4         | 37            | 125           | 0           | Standard |
| Ba      | 137  | <b>0.032</b>  | ug/L  | 0.002    | 5         | 46            | 229           | 3           | Standard |
| > Tb    | 159  |               | ug/L  |          |           | 720127        | 688433        | 1           | Standard |
| Pb      | 208  | <b>0.000</b>  | ug/L  | 0.001    | 175       | 200           | 208           | 14          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0123-BS1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 18:00:33**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30728         | 38240         | 2           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4438068       | 4410233       | 1           | Standard |
| > Sc    | 45   |               | ug/L  |          |           | 546109        | 520560        | 1           | Standard |
| Cr      | 52   | <b>26.914</b> | ug/L  | 0.331    | 1         | 17159         | 475804        | 0           | Standard |
| Cr      | 53   | <b>26.857</b> | ug/L  | 0.379    | 1         | 216           | 53125         | 1           | Standard |
| Mn      | 55   | <b>26.896</b> | ug/L  | 0.533    | 1         | 1132          | 645902        | 1           | Standard |
| > Ge    | 72   |               | ug/L  |          |           | 29835         | 29432         | 1           | KED      |
| Ni      | 60   | <b>24.861</b> | ug/L  | 0.245    | 0         | 138           | 27926         | 0           | KED      |
| Ni      | 62   | <b>25.353</b> | ug/L  | 0.145    | 0         | 33            | 4654          | 1           | KED      |
| Cu      | 63   | <b>26.097</b> | ug/L  | 0.233    | 0         | 80            | 85147         | 2           | KED      |
| Cu      | 65   | <b>25.487</b> | ug/L  | 0.736    | 2         | 24            | 41037         | 1           | KED      |
| Zn      | 66   | <b>78.791</b> | ug/L  | 2.494    | 3         | 43            | 32555         | 2           | KED      |
| Zn      | 67   | <b>74.527</b> | ug/L  | 1.802    | 2         | 3             | 5121          | 1           | KED      |
| As      | 75   | <b>24.852</b> | ug/L  | 0.470    | 1         | 16            | 5359          | 1           | KED      |
| Se      | 78   | <b>74.905</b> | ug/L  | 1.159    | 1         | 19            | 1827          | 0           | KED      |
| Y       | 89   |               | ug/L  |          |           | 297640        | 286453        | 0           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 45            | 12          | Standard |
| > In-1  | 115  |               | ug/L  |          |           | 8217          | 8111          | 1           | KED      |
| Cd      | 111  | <b>25.034</b> | ug/L  | 0.196    | 0         | 4             | 6001          | 2           | KED      |
| Cd      | 114  | <b>25.207</b> | ug/L  | 0.830    | 3         | 2             | 14855         | 1           | KED      |
| > In    | 115  |               | ug/L  |          |           | 413136        | 405253        | 1           | Standard |
| Ag      | 107  | <b>27.780</b> | ug/L  | 0.411    | 1         | 89            | 375292        | 1           | Standard |
| Ba      | 135  | <b>26.713</b> | ug/L  | 0.157    | 0         | 37            | 90527         | 1           | Standard |
| Ba      | 137  | <b>25.934</b> | ug/L  | 0.909    | 3         | 46            | 155936        | 2           | Standard |
| > Tb    | 159  |               | ug/L  |          |           | 720127        | 692548        | 2           | Standard |
| Pb      | 208  | <b>26.598</b> | ug/L  | 0.605    | 2         | 200           | 1140760       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-01**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 18:05:16**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 52767         | 0           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4428302       | 1           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 636512        | 0           | Standard |
| Cr      | 52   | <b>13.994</b>  | ug/L  | 0.123    | 0         | 17159         | 312157        | 0           | Standard |
| Cr      | 53   | <b>14.376</b>  | ug/L  | 0.225    | 1         | 216           | 34893         | 1           | Standard |
| Mn      | 55   | <b>149.238</b> | ug/L  | 2.113    | 1         | 1132          | 4377017       | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 30014         | 2           | KED      |
| Ni      | 60   | <b>11.515</b>  | ug/L  | 0.442    | 3         | 138           | 13259         | 1           | KED      |
| Ni      | 62   | <b>12.056</b>  | ug/L  | 0.190    | 1         | 33            | 2274          | 2           | KED      |
| Cu      | 63   | <b>23.397</b>  | ug/L  | 0.805    | 3         | 80            | 77816         | 1           | KED      |
| Cu      | 65   | <b>23.061</b>  | ug/L  | 0.146    | 0         | 24            | 37872         | 1           | KED      |
| Zn      | 66   | <b>47.762</b>  | ug/L  | 1.511    | 3         | 43            | 20144         | 3           | KED      |
| Zn      | 67   | <b>45.387</b>  | ug/L  | 2.460    | 5         | 3             | 3180          | 3           | KED      |
| As      | 75   | <b>5.309</b>   | ug/L  | 0.056    | 1         | 16            | 1180          | 2           | KED      |
| Se      | 78   | <b>0.990</b>   | ug/L  | 0.246    | 24        | 19            | 44            | 11          | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 520851        | 3           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 105           | 15          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 8078          | 1           | KED      |
| Cd      | 111  | <b>0.127</b>   | ug/L  | 0.015    | 11        | 4             | 34            | 9           | KED      |
| Cd      | 114  | <b>0.123</b>   | ug/L  | 0.027    | 21        | 2             | 74            | 21          | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 408018        | 0           | Standard |
| Ag      | 107  | <b>0.102</b>   | ug/L  | 0.004    | 3         | 89            | 1470          | 4           | Standard |
| Ba      | 135  | <b>27.753</b>  | ug/L  | 0.348    | 1         | 37            | 94688         | 0           | Standard |
| Ba      | 137  | <b>27.631</b>  | ug/L  | 0.214    | 0         | 46            | 167323        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 723308        | 0           | Standard |
| Pb      | 208  | <b>12.019</b>  | ug/L  | 0.047    | 0         | 200           | 538699        | 0           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0055-DUP1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 18:10:00**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 56036         | 1           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4364762       | 0           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 641955        | 0           | Standard |
| Cr      | 52   | <b>12.982</b>  | ug/L  | 0.157    | 1         | 17159         | 293496        | 0           | Standard |
| Cr      | 53   | <b>13.146</b>  | ug/L  | 0.114    | 0         | 216           | 32201         | 0           | Standard |
| Mn      | 55   | <b>145.034</b> | ug/L  | 1.501    | 1         | 1132          | 4289928       | 0           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 29768         | 1           | KED      |
| Ni      | 60   | <b>11.273</b>  | ug/L  | 0.288    | 2         | 138           | 12881         | 1           | KED      |
| Ni      | 62   | <b>11.517</b>  | ug/L  | 0.100    | 0         | 33            | 2156          | 1           | KED      |
| Cu      | 63   | <b>22.359</b>  | ug/L  | 0.500    | 2         | 80            | 73770         | 0           | KED      |
| Cu      | 65   | <b>22.253</b>  | ug/L  | 0.582    | 2         | 24            | 36238         | 0           | KED      |
| Zn      | 66   | <b>47.882</b>  | ug/L  | 1.140    | 2         | 43            | 20026         | 0           | KED      |
| Zn      | 67   | <b>45.969</b>  | ug/L  | 1.499    | 3         | 3             | 3195          | 1           | KED      |
| As      | 75   | <b>5.208</b>   | ug/L  | 0.277    | 5         | 16            | 1148          | 3           | KED      |
| Se      | 78   | <b>1.100</b>   | ug/L  | 0.263    | 23        | 19            | 46            | 11          | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 527449        | 2           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 97            | 9           | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 8246          | 2           | KED      |
| Cd      | 111  | <b>0.145</b>   | ug/L  | 0.038    | 25        | 4             | 39            | 25          | KED      |
| Cd      | 114  | <b>0.137</b>   | ug/L  | 0.039    | 28        | 2             | 84            | 28          | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 410053        | 1           | Standard |
| Ag      | 107  | <b>0.100</b>   | ug/L  | 0.003    | 2         | 89            | 1459          | 1           | Standard |
| Ba      | 135  | <b>28.542</b>  | ug/L  | 0.538    | 1         | 37            | 97852         | 0           | Standard |
| Ba      | 137  | <b>29.049</b>  | ug/L  | 0.318    | 1         | 46            | 176790        | 2           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 732174        | 0           | Standard |
| Pb      | 208  | <b>9.453</b>   | ug/L  | 0.117    | 1         | 200           | 428901        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0055-MS1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 18:14:44**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 47364         | 0           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4332146       | 2           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 644546        | 1           | Standard |
| Cr      | 52   | <b>34.869</b>  | ug/L  | 0.765    | 2         | 17159         | 757223        | 0           | Standard |
| Cr      | 53   | <b>35.113</b>  | ug/L  | 0.818    | 2         | 216           | 85922         | 2           | Standard |
| Mn      | 55   | <b>167.927</b> | ug/L  | 3.441    | 2         | 1132          | 4986160       | 0           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 29623         | 1           | KED      |
| Ni      | 60   | <b>37.043</b>  | ug/L  | 0.579    | 1         | 138           | 41813         | 1           | KED      |
| Ni      | 62   | <b>37.669</b>  | ug/L  | 0.961    | 2         | 33            | 6943          | 2           | KED      |
| Cu      | 63   | <b>48.418</b>  | ug/L  | 1.061    | 2         | 80            | 158897        | 1           | KED      |
| Cu      | 65   | <b>47.838</b>  | ug/L  | 0.291    | 0         | 24            | 77518         | 1           | KED      |
| Zn      | 66   | <b>128.901</b> | ug/L  | 1.525    | 1         | 43            | 53589         | 1           | KED      |
| Zn      | 67   | <b>122.003</b> | ug/L  | 3.292    | 2         | 3             | 8436          | 2           | KED      |
| As      | 75   | <b>29.862</b>  | ug/L  | 0.575    | 1         | 16            | 6477          | 0           | KED      |
| Se      | 78   | <b>75.909</b>  | ug/L  | 1.002    | 1         | 19            | 1863          | 1           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 508777        | 2           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 108           | 9           | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 8403          | 1           | KED      |
| Cd      | 111  | <b>24.395</b>  | ug/L  | 0.561    | 2         | 4             | 6058          | 2           | KED      |
| Cd      | 114  | <b>24.393</b>  | ug/L  | 0.703    | 2         | 2             | 14894         | 1           | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 406763        | 0           | Standard |
| Ag      | 107  | <b>10.154</b>  | ug/L  | 0.102    | 1         | 89            | 137765        | 1           | Standard |
| Ba      | 135  | <b>57.775</b>  | ug/L  | 0.995    | 1         | 37            | 196470        | 0           | Standard |
| Ba      | 137  | <b>57.566</b>  | ug/L  | 1.113    | 1         | 46            | 347442        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 726977        | 0           | Standard |
| Pb      | 208  | <b>35.211</b>  | ug/L  | 0.742    | 2         | 200           | 1585629       | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0055-MSD1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 18:19:28**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 49616         | 2           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4470590       | 2           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 646806        | 2           | Standard |
| Cr      | 52   | <b>34.564</b>  | ug/L  | 0.234    | 0         | 17159         | 753501        | 1           | Standard |
| Cr      | 53   | <b>34.951</b>  | ug/L  | 0.990    | 2         | 216           | 85801         | 1           | Standard |
| Mn      | 55   | <b>171.878</b> | ug/L  | 4.898    | 2         | 1132          | 5120393       | 0           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 29628         | 1           | KED      |
| Ni      | 60   | <b>35.899</b>  | ug/L  | 1.931    | 5         | 138           | 40517         | 4           | KED      |
| Ni      | 62   | <b>36.512</b>  | ug/L  | 1.961    | 5         | 33            | 6728          | 3           | KED      |
| Cu      | 63   | <b>46.922</b>  | ug/L  | 0.607    | 1         | 80            | 154031        | 1           | KED      |
| Cu      | 65   | <b>46.736</b>  | ug/L  | 1.140    | 2         | 24            | 75731         | 1           | KED      |
| Zn      | 66   | <b>124.057</b> | ug/L  | 0.999    | 0         | 43            | 51586         | 1           | KED      |
| Zn      | 67   | <b>119.537</b> | ug/L  | 1.366    | 1         | 3             | 8267          | 0           | KED      |
| As      | 75   | <b>28.948</b>  | ug/L  | 0.630    | 2         | 16            | 6281          | 2           | KED      |
| Se      | 78   | <b>74.561</b>  | ug/L  | 0.538    | 0         | 19            | 1831          | 1           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 515834        | 4           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 105           | 8           | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 8115          | 1           | KED      |
| Cd      | 111  | <b>24.858</b>  | ug/L  | 0.253    | 1         | 4             | 5961          | 0           | KED      |
| Cd      | 114  | <b>24.856</b>  | ug/L  | 0.354    | 1         | 2             | 14660         | 0           | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 405169        | 2           | Standard |
| Ag      | 107  | <b>12.059</b>  | ug/L  | 0.345    | 2         | 89            | 162869        | 0           | Standard |
| Ba      | 135  | <b>56.978</b>  | ug/L  | 0.924    | 1         | 37            | 192968        | 0           | Standard |
| Ba      | 137  | <b>57.654</b>  | ug/L  | 1.402    | 2         | 46            | 346503        | 0           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 732338        | 1           | Standard |
| Pb      | 208  | <b>34.991</b>  | ug/L  | 0.612    | 1         | 200           | 1587350       | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0055-PS1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 18:24:12**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 56650         | 0           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4358261       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 635294        | 0           | Standard |
| Cr      | 52   | 35.555     | ug/L  | 0.235    | 0         | 17159         | 760807        | 0           | Standard |
| Cr      | 53   | 35.912     | ug/L  | 0.964    | 2         | 216           | 86611         | 2           | Standard |
| Mn      | 55   | 172.261    | ug/L  | 4.582    | 2         | 1132          | 5042944       | 3           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 30148         | 0           | KED      |
| Ni      | 60   | 36.842     | ug/L  | 0.750    | 2         | 138           | 42330         | 2           | KED      |
| Ni      | 62   | 37.654     | ug/L  | 1.865    | 4         | 33            | 7063          | 5           | KED      |
| Cu      | 63   | 48.742     | ug/L  | 1.635    | 3         | 80            | 162830        | 3           | KED      |
| Cu      | 65   | 49.256     | ug/L  | 1.357    | 2         | 24            | 81234         | 2           | KED      |
| Zn      | 66   | 126.809    | ug/L  | 2.634    | 2         | 43            | 53659         | 2           | KED      |
| Zn      | 67   | 118.114    | ug/L  | 3.912    | 3         | 3             | 8314          | 3           | KED      |
| As      | 75   | 30.544     | ug/L  | 0.452    | 1         | 16            | 6744          | 1           | KED      |
| [ Se    | 78   | 75.368     | ug/L  | 0.803    | 1         | 19            | 1883          | 1           | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 509859        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 93            | 12          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 8283          | 3           | KED      |
| Cd      | 111  | 25.290     | ug/L  | 0.719    | 2         | 4             | 6187          | 1           | KED      |
| Cd      | 114  | 25.133     | ug/L  | 0.985    | 3         | 2             | 15118         | 0           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 409245        | 1           | Standard |
| Ag      | 107  | 25.948     | ug/L  | 0.211    | 0         | 89            | 354001        | 1           | Standard |
| Ba      | 135  | 53.084     | ug/L  | 0.676    | 1         | 37            | 181613        | 0           | Standard |
| [ Ba    | 137  | 53.945     | ug/L  | 0.932    | 1         | 46            | 327541        | 0           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 727890        | 1           | Standard |
| [ Pb    | 208  | 36.542     | ug/L  | 0.822    | 2         | 200           | 1647536       | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 18:28:56

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 33485         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4162305       | 2           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 499788        | 0           | Standard |
| Cr      | 52   | 0.004      | ug/L  | 0.026    | 653       | 17159         | 15769         | 2           | Standard |
| Cr      | 53   | 0.011      | ug/L  | 0.042    | 369       | 216           | 220           | 36          | Standard |
| Mn      | 55   | 0.080      | ug/L  | 0.158    | 196       | 1132          | 2879          | 125         | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 28811         | 1           | KED      |
| Ni      | 60   | -0.094     | ug/L  | 0.010    | 10        | 138           | 31            | 35          | KED      |
| Ni      | 62   | -0.118     | ug/L  | 0.029    | 24        | 33            | 11            | 44          | KED      |
| Cu      | 63   | -0.003     | ug/L  | 0.000    | 13        | 80            | 69            | 3           | KED      |
| Cu      | 65   | 0.002      | ug/L  | 0.001    | 81        | 24            | 26            | 7           | KED      |
| Zn      | 66   | -0.054     | ug/L  | 0.008    | 14        | 43            | 19            | 14          | KED      |
| Zn      | 67   | -0.026     | ug/L  | 0.029    | 108       | 3             | 1             | 100         | KED      |
| As      | 75   | -0.042     | ug/L  | 0.007    | 16        | 16            | 6             | 20          | KED      |
| Se      | 78   | 0.114      | ug/L  | 0.199    | 175       | 19            | 22            | 22          | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 278571        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 45            | 19          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 7913          | 1           | KED      |
| Cd      | 111  | 0.005      | ug/L  | 0.009    | 182       | 4             | 5             | 39          | KED      |
| Cd      | 114  | 0.001      | ug/L  | 0.002    | 147       | 2             | 2             | 34          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 394032        | 1           | Standard |
| Ag      | 107  | 0.006      | ug/L  | 0.014    | 222       | 89            | 168           | 109         | Standard |
| Ba      | 135  | 0.020      | ug/L  | 0.036    | 175       | 37            | 102           | 113         | Standard |
| Ba      | 137  | 0.028      | ug/L  | 0.046    | 166       | 46            | 204           | 130         | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 669402        | 0           | Standard |
| Pb      | 208  | 0.015      | ug/L  | 0.028    | 182       | 200           | 813           | 140         | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 18:33:41

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 31529         | 0           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4401700       | 2           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 521470        | 1           | Standard |
| Cr      | 52   | 50.206     | ug/L  | 1.257    | 2         | 17159         | 874884        | 1           | Standard |
| Cr      | 53   | 51.811     | ug/L  | 1.402    | 2         | 216           | 102456        | 1           | Standard |
| Mn      | 55   | 50.466     | ug/L  | 1.123    | 2         | 1132          | 1213068       | 0           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 29461         | 1           | KED      |
| Ni      | 60   | 48.584     | ug/L  | 0.698    | 1         | 138           | 54498         | 0           | KED      |
| Ni      | 62   | 49.653     | ug/L  | 1.381    | 2         | 33            | 9089          | 1           | KED      |
| Cu      | 63   | 48.690     | ug/L  | 0.190    | 0         | 80            | 158940        | 1           | KED      |
| Cu      | 65   | 49.720     | ug/L  | 0.261    | 0         | 24            | 80127         | 1           | KED      |
| Zn      | 66   | 50.017     | ug/L  | 2.197    | 4         | 43            | 20701         | 3           | KED      |
| Zn      | 67   | 49.972     | ug/L  | 0.533    | 1         | 3             | 3439          | 0           | KED      |
| As      | 75   | 50.271     | ug/L  | 0.373    | 0         | 16            | 10835         | 0           | KED      |
| [ Se    | 78   | 49.691     | ug/L  | 0.786    | 1         | 19            | 1220          | 2           | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 296704        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 53            | 5           | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 8321          | 3           | KED      |
| Cd      | 111  | 48.322     | ug/L  | 1.292    | 2         | 4             | 11872         | 0           | KED      |
| [ Cd    | 114  | 48.935     | ug/L  | 2.206    | 4         | 2             | 29564         | 1           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 407349        | 1           | Standard |
| Ag      | 107  | 50.709     | ug/L  | 0.973    | 1         | 89            | 688560        | 1           | Standard |
| Ba      | 135  | 51.123     | ug/L  | 1.402    | 2         | 37            | 174129        | 3           | Standard |
| [ Ba    | 137  | 51.018     | ug/L  | 0.662    | 1         | 46            | 308372        | 0           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 704727        | 0           | Standard |
| [ Pb    | 208  | 49.143     | ug/L  | 0.617    | 1         | 200           | 2145289       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 18:41:09

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 29778         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4255792       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 490568        | 1           | Standard |
| Cr      | 52   | 0.008      | ug/L  | 0.017    | 216       | 17159         | 15541         | 2           | Standard |
| Cr      | 53   | -0.006     | ug/L  | 0.002    | 39        | 216           | 183           | 2           | Standard |
| Mn      | 55   | -0.012     | ug/L  | 0.001    | 6         | 1132          | 753           | 3           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 28616         | 1           | KED      |
| Ni      | 60   | -0.098     | ug/L  | 0.006    | 5         | 138           | 26            | 21          | KED      |
| Ni      | 62   | -0.146     | ug/L  | 0.027    | 18        | 33            | 6             | 75          | KED      |
| Cu      | 63   | -0.008     | ug/L  | 0.002    | 27        | 80            | 52            | 14          | KED      |
| Cu      | 65   | 0.001      | ug/L  | 0.003    | 505       | 24            | 24            | 20          | KED      |
| Zn      | 66   | -0.045     | ug/L  | 0.023    | 51        | 43            | 23            | 40          | KED      |
| Zn      | 67   | -0.008     | ug/L  | 0.043    | 569       | 3             | 3             | 91          | KED      |
| As      | 75   | -0.048     | ug/L  | 0.002    | 4         | 16            | 5             | 8           | KED      |
| Se      | 78   | -0.134     | ug/L  | 0.101    | 75        | 19            | 16            | 16          | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 280512        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 50            | 10          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 7939          | 0           | KED      |
| Cd      | 111  | -0.009     | ug/L  | 0.007    | 77        | 4             | 1             | 86          | KED      |
| Cd      | 114  | 0.006      | ug/L  | 0.006    | 100       | 2             | 5             | 59          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 400459        | 0           | Standard |
| Ag      | 107  | -0.002     | ug/L  | 0.000    | 1         | 89            | 62            | 0           | Standard |
| Ba      | 135  | -0.004     | ug/L  | 0.002    | 61        | 37            | 24            | 31          | Standard |
| Ba      | 137  | -0.003     | ug/L  | 0.001    | 47        | 46            | 29            | 24          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 667173        | 1           | Standard |
| Pb      | 208  | 0.001      | ug/L  | 0.001    | 107       | 200           | 212           | 12          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0158-14**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 18:48:05**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 54336         | 2           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4250036       | 0           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 634890        | 0           | Standard |
| Cr      | 52   | <b>13.059</b>  | ug/L  | 0.145    | 1         | 17159         | 291871        | 0           | Standard |
| Cr      | 53   | <b>13.218</b>  | ug/L  | 0.213    | 1         | 216           | 32021         | 1           | Standard |
| Mn      | 55   | <b>147.796</b> | ug/L  | 2.702    | 1         | 1132          | 4323316       | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 29591         | 0           | KED      |
| Ni      | 60   | <b>11.860</b>  | ug/L  | 0.091    | 0         | 138           | 13467         | 0           | KED      |
| Ni      | 62   | <b>12.234</b>  | ug/L  | 0.263    | 2         | 33            | 2275          | 1           | KED      |
| Cu      | 63   | <b>24.592</b>  | ug/L  | 0.523    | 2         | 80            | 80667         | 1           | KED      |
| Cu      | 65   | <b>24.482</b>  | ug/L  | 0.266    | 1         | 24            | 39642         | 1           | KED      |
| Zn      | 66   | <b>50.267</b>  | ug/L  | 0.770    | 1         | 43            | 20902         | 1           | KED      |
| Zn      | 67   | <b>48.360</b>  | ug/L  | 0.300    | 0         | 3             | 3343          | 0           | KED      |
| As      | 75   | <b>5.834</b>   | ug/L  | 0.013    | 0         | 16            | 1277          | 0           | KED      |
| Se      | 78   | <b>0.837</b>   | ug/L  | 0.301    | 35        | 19            | 40            | 17          | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 517140        | 1           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 107           | 7           | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 8225          | 1           | KED      |
| Cd      | 111  | <b>0.121</b>   | ug/L  | 0.017    | 13        | 4             | 33            | 13          | KED      |
| Cd      | 114  | <b>0.160</b>   | ug/L  | 0.005    | 3         | 2             | 97            | 3           | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 406996        | 1           | Standard |
| Ag      | 107  | <b>0.107</b>   | ug/L  | 0.004    | 4         | 89            | 1544          | 4           | Standard |
| Ba      | 135  | <b>40.608</b>  | ug/L  | 0.419    | 1         | 37            | 138203        | 2           | Standard |
| Ba      | 137  | <b>40.429</b>  | ug/L  | 0.535    | 1         | 46            | 244162        | 0           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 723597        | 2           | Standard |
| Pb      | 208  | <b>10.527</b>  | ug/L  | 0.275    | 2         | 200           | 471856        | 0           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0158-15**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 18:52:49**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 55072         | 1           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4216566       | 0           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 627183        | 1           | Standard |
| Cr      | 52   | <b>17.572</b>  | ug/L  | 0.244    | 1         | 17159         | 381114        | 0           | Standard |
| Cr      | 53   | <b>17.527</b>  | ug/L  | 0.405    | 2         | 216           | 41852         | 1           | Standard |
| Mn      | 55   | <b>238.744</b> | ug/L  | 7.900    | 3         | 1132          | 6896099       | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 29801         | 0           | KED      |
| Ni      | 60   | <b>13.382</b>  | ug/L  | 0.134    | 0         | 138           | 15285         | 0           | KED      |
| Ni      | 62   | <b>13.654</b>  | ug/L  | 0.316    | 2         | 33            | 2553          | 2           | KED      |
| Cu      | 63   | <b>21.132</b>  | ug/L  | 0.164    | 0         | 80            | 69824         | 1           | KED      |
| Cu      | 65   | <b>21.222</b>  | ug/L  | 0.381    | 1         | 24            | 34613         | 2           | KED      |
| Zn      | 66   | <b>49.503</b>  | ug/L  | 1.106    | 2         | 43            | 20730         | 1           | KED      |
| Zn      | 67   | <b>48.132</b>  | ug/L  | 2.346    | 4         | 3             | 3350          | 4           | KED      |
| As      | 75   | <b>5.493</b>   | ug/L  | 0.158    | 2         | 16            | 1212          | 3           | KED      |
| Se      | 78   | <b>0.919</b>   | ug/L  | 0.145    | 15        | 19            | 42            | 8           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 510759        | 1           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 111           | 17          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 8142          | 1           | KED      |
| Cd      | 111  | <b>0.261</b>   | ug/L  | 0.032    | 12        | 4             | 66            | 12          | KED      |
| Cd      | 114  | <b>0.283</b>   | ug/L  | 0.034    | 12        | 2             | 169           | 10          | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 404655        | 2           | Standard |
| Ag      | 107  | <b>0.092</b>   | ug/L  | 0.003    | 3         | 89            | 1322          | 4           | Standard |
| Ba      | 135  | <b>39.017</b>  | ug/L  | 0.879    | 2         | 37            | 131966        | 1           | Standard |
| Ba      | 137  | <b>38.382</b>  | ug/L  | 1.513    | 3         | 46            | 230318        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 728455        | 3           | Standard |
| Pb      | 208  | <b>8.678</b>   | ug/L  | 0.298    | 3         | 200           | 391448        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0158-16**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 18:57:33**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 55926         | 0           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4265247       | 1           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 631851        | 1           | Standard |
| Cr      | 52   | <b>11.642</b>  | ug/L  | 0.413    | 3         | 17159         | 261034        | 1           | Standard |
| Cr      | 53   | <b>11.892</b>  | ug/L  | 0.192    | 1         | 216           | 28693         | 1           | Standard |
| Mn      | 55   | <b>150.094</b> | ug/L  | 2.940    | 1         | 1132          | 4369210       | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 29688         | 1           | KED      |
| Ni      | 60   | <b>10.725</b>  | ug/L  | 0.424    | 3         | 138           | 12228         | 2           | KED      |
| Ni      | 62   | <b>10.969</b>  | ug/L  | 0.181    | 1         | 33            | 2050          | 2           | KED      |
| Cu      | 63   | <b>22.358</b>  | ug/L  | 0.205    | 0         | 80            | 73586         | 1           | KED      |
| Cu      | 65   | <b>22.323</b>  | ug/L  | 0.256    | 1         | 24            | 36265         | 1           | KED      |
| Zn      | 66   | <b>46.995</b>  | ug/L  | 1.373    | 2         | 43            | 19605         | 2           | KED      |
| Zn      | 67   | <b>46.394</b>  | ug/L  | 1.106    | 2         | 3             | 3217          | 1           | KED      |
| As      | 75   | <b>5.796</b>   | ug/L  | 0.049    | 0         | 16            | 1273          | 2           | KED      |
| Se      | 78   | <b>0.961</b>   | ug/L  | 0.113    | 11        | 19            | 43            | 6           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 504567        | 1           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 102           | 4           | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 8198          | 2           | KED      |
| Cd      | 111  | <b>0.120</b>   | ug/L  | 0.022    | 18        | 4             | 33            | 14          | KED      |
| Cd      | 114  | <b>0.155</b>   | ug/L  | 0.029    | 19        | 2             | 94            | 16          | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 407763        | 0           | Standard |
| Ag      | 107  | <b>0.106</b>   | ug/L  | 0.009    | 8         | 89            | 1527          | 7           | Standard |
| Ba      | 135  | <b>36.020</b>  | ug/L  | 0.442    | 1         | 37            | 122820        | 1           | Standard |
| Ba      | 137  | <b>36.405</b>  | ug/L  | 0.328    | 0         | 46            | 220295        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 721293        | 1           | Standard |
| Pb      | 208  | <b>9.247</b>   | ug/L  | 0.172    | 1         | 200           | 413290        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-02**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 19:02:17**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 51795         | 3           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4204755       | 1           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 614973        | 1           | Standard |
| Cr      | 52   | <b>13.586</b>  | ug/L  | 0.234    | 1         | 17159         | 293325        | 0           | Standard |
| Cr      | 53   | <b>13.872</b>  | ug/L  | 0.306    | 2         | 216           | 32533         | 1           | Standard |
| Mn      | 55   | <b>145.105</b> | ug/L  | 4.700    | 3         | 1132          | 4111384       | 2           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 28984         | 0           | KED      |
| Ni      | 60   | <b>11.819</b>  | ug/L  | 0.451    | 3         | 138           | 13143         | 3           | KED      |
| Ni      | 62   | <b>11.861</b>  | ug/L  | 0.592    | 4         | 33            | 2162          | 5           | KED      |
| Cu      | 63   | <b>30.476</b>  | ug/L  | 0.449    | 1         | 80            | 97897         | 0           | KED      |
| Cu      | 65   | <b>30.585</b>  | ug/L  | 0.661    | 2         | 24            | 48498         | 1           | KED      |
| Zn      | 66   | <b>58.863</b>  | ug/L  | 1.347    | 2         | 43            | 23969         | 2           | KED      |
| Zn      | 67   | <b>56.219</b>  | ug/L  | 1.246    | 2         | 3             | 3806          | 2           | KED      |
| As      | 75   | <b>6.864</b>   | ug/L  | 0.063    | 0         | 16            | 1469          | 1           | KED      |
| Se      | 78   | <b>0.799</b>   | ug/L  | 0.047    | 5         | 19            | 38            | 3           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 495443        | 1           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 119           | 14          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 8158          | 2           | KED      |
| Cd      | 111  | <b>0.237</b>   | ug/L  | 0.005    | 2         | 4             | 61            | 0           | KED      |
| Cd      | 114  | <b>0.257</b>   | ug/L  | 0.011    | 4         | 2             | 154           | 6           | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 404978        | 2           | Standard |
| Ag      | 107  | <b>0.144</b>   | ug/L  | 0.005    | 3         | 89            | 2027          | 4           | Standard |
| Ba      | 135  | <b>37.408</b>  | ug/L  | 1.301    | 3         | 37            | 126633        | 2           | Standard |
| Ba      | 137  | <b>37.350</b>  | ug/L  | 0.698    | 1         | 46            | 224416        | 0           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 709784        | 3           | Standard |
| Pb      | 208  | <b>14.406</b>  | ug/L  | 0.385    | 2         | 200           | 633281        | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-01**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 19:07:01**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 54462         | 3           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4241651       | 2           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 633361        | 1           | Standard |
| Cr      | 52   | <b>14.367</b>  | ug/L  | 0.307    | 2         | 17159         | 318325        | 1           | Standard |
| Cr      | 53   | <b>14.502</b>  | ug/L  | 0.253    | 1         | 216           | 35015         | 0           | Standard |
| Mn      | 55   | <b>152.349</b> | ug/L  | 3.710    | 2         | 1132          | 4444946       | 0           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 29121         | 4           | KED      |
| Ni      | 60   | <b>12.312</b>  | ug/L  | 0.701    | 5         | 138           | 13730         | 1           | KED      |
| Ni      | 62   | <b>12.779</b>  | ug/L  | 0.791    | 6         | 33            | 2334          | 4           | KED      |
| Cu      | 63   | <b>31.502</b>  | ug/L  | 1.424    | 4         | 80            | 101550        | 2           | KED      |
| Cu      | 65   | <b>31.127</b>  | ug/L  | 1.692    | 5         | 24            | 49522         | 2           | KED      |
| Zn      | 66   | <b>60.233</b>  | ug/L  | 2.762    | 4         | 43            | 24607         | 0           | KED      |
| Zn      | 67   | <b>57.958</b>  | ug/L  | 4.389    | 7         | 3             | 3934          | 4           | KED      |
| As      | 75   | <b>7.485</b>   | ug/L  | 0.404    | 5         | 16            | 1605          | 0           | KED      |
| Se      | 78   | <b>0.919</b>   | ug/L  | 0.182    | 19        | 19            | 41            | 8           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 517192        | 1           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 117           | 17          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 8181          | 0           | KED      |
| Cd      | 111  | <b>0.213</b>   | ug/L  | 0.031    | 14        | 4             | 55            | 13          | KED      |
| Cd      | 114  | <b>0.228</b>   | ug/L  | 0.042    | 18        | 2             | 137           | 19          | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 397775        | 1           | Standard |
| Ag      | 107  | <b>0.149</b>   | ug/L  | 0.006    | 3         | 89            | 2065          | 2           | Standard |
| Ba      | 135  | <b>42.062</b>  | ug/L  | 0.054    | 0         | 37            | 139894        | 1           | Standard |
| Ba      | 137  | <b>41.346</b>  | ug/L  | 0.756    | 1         | 46            | 244016        | 0           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 719203        | 1           | Standard |
| Pb      | 208  | <b>14.681</b>  | ug/L  | 0.117    | 0         | 200           | 654202        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0123-DUP1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 19:11:44**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 54514         | 1           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4263581       | 4           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 624401        | 0           | Standard |
| Cr      | 52   | <b>14.046</b>  | ug/L  | 0.124    | 0         | 17159         | 307280        | 0           | Standard |
| Cr      | 53   | <b>14.364</b>  | ug/L  | 0.167    | 1         | 216           | 34200         | 0           | Standard |
| Mn      | 55   | <b>156.535</b> | ug/L  | 1.335    | 0         | 1132          | 4503677       | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 28830         | 2           | KED      |
| Ni      | 60   | <b>12.412</b>  | ug/L  | 0.204    | 1         | 138           | 13729         | 4           | KED      |
| Ni      | 62   | <b>12.594</b>  | ug/L  | 1.080    | 8         | 33            | 2277          | 6           | KED      |
| Cu      | 63   | <b>32.013</b>  | ug/L  | 1.231    | 3         | 80            | 102224        | 1           | KED      |
| Cu      | 65   | <b>31.189</b>  | ug/L  | 0.450    | 1         | 24            | 49184         | 1           | KED      |
| Zn      | 66   | <b>59.584</b>  | ug/L  | 0.172    | 0         | 43            | 24131         | 2           | KED      |
| Zn      | 67   | <b>57.337</b>  | ug/L  | 1.125    | 1         | 3             | 3860          | 1           | KED      |
| As      | 75   | <b>7.409</b>   | ug/L  | 0.412    | 5         | 16            | 1574          | 2           | KED      |
| Se      | 78   | <b>1.013</b>   | ug/L  | 0.137    | 13        | 19            | 43            | 4           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 513920        | 2           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 111           | 11          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 8056          | 2           | KED      |
| Cd      | 111  | <b>0.250</b>   | ug/L  | 0.033    | 13        | 4             | 63            | 10          | KED      |
| Cd      | 114  | <b>0.225</b>   | ug/L  | 0.032    | 14        | 2             | 133           | 11          | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 397768        | 0           | Standard |
| Ag      | 107  | <b>0.188</b>   | ug/L  | 0.005    | 2         | 89            | 2577          | 2           | Standard |
| Ba      | 135  | <b>40.422</b>  | ug/L  | 0.376    | 0         | 37            | 134439        | 0           | Standard |
| Ba      | 137  | <b>39.809</b>  | ug/L  | 0.838    | 2         | 46            | 234980        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 708142        | 2           | Standard |
| Pb      | 208  | <b>14.996</b>  | ug/L  | 0.245    | 1         | 200           | 657889        | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0123-MS1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 19:16:28**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 50936         | 3           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4182338       | 2           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 620294        | 0           | Standard |
| Cr      | 52   | <b>36.471</b>  | ug/L  | 0.387    | 1         | 17159         | 761491        | 1           | Standard |
| Cr      | 53   | <b>36.404</b>  | ug/L  | 0.468    | 1         | 216           | 85730         | 1           | Standard |
| Mn      | 55   | <b>178.936</b> | ug/L  | 1.054    | 0         | 1132          | 5114083       | 0           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 29103         | 1           | KED      |
| Ni      | 60   | <b>37.970</b>  | ug/L  | 0.697    | 1         | 138           | 42100         | 0           | KED      |
| Ni      | 62   | <b>38.222</b>  | ug/L  | 1.495    | 3         | 33            | 6919          | 2           | KED      |
| Cu      | 63   | <b>56.489</b>  | ug/L  | 0.296    | 0         | 80            | 182145        | 1           | KED      |
| Cu      | 65   | <b>57.737</b>  | ug/L  | 1.385    | 2         | 24            | 91896         | 1           | KED      |
| Zn      | 66   | <b>139.543</b> | ug/L  | 0.984    | 0         | 43            | 56992         | 1           | KED      |
| Zn      | 67   | <b>134.368</b> | ug/L  | 2.188    | 1         | 3             | 9127          | 0           | KED      |
| As      | 75   | <b>31.604</b>  | ug/L  | 0.647    | 2         | 16            | 6734          | 0           | KED      |
| Se      | 78   | <b>76.054</b>  | ug/L  | 1.484    | 1         | 19            | 1834          | 0           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 514178        | 1           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 111           | 6           | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7997          | 3           | KED      |
| Cd      | 111  | <b>24.933</b>  | ug/L  | 0.703    | 2         | 4             | 5889          | 1           | KED      |
| Cd      | 114  | <b>25.130</b>  | ug/L  | 1.293    | 5         | 2             | 14589         | 1           | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 395336        | 2           | Standard |
| Ag      | 107  | <b>19.305</b>  | ug/L  | 0.608    | 3         | 89            | 254375        | 1           | Standard |
| Ba      | 135  | <b>67.258</b>  | ug/L  | 1.996    | 2         | 37            | 222217        | 0           | Standard |
| Ba      | 137  | <b>67.230</b>  | ug/L  | 2.441    | 3         | 46            | 394207        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 707928        | 0           | Standard |
| Pb      | 208  | <b>39.766</b>  | ug/L  | 0.081    | 0         | 200           | 1744023       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0123-MSD1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 19:21:12**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 54934         | 3           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4205744       | 0           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 632000        | 2           | Standard |
| Cr      | 52   | <b>35.611</b>  | ug/L  | 0.828    | 2         | 17159         | 757863        | 1           | Standard |
| Cr      | 53   | <b>35.755</b>  | ug/L  | 0.413    | 1         | 216           | 85781         | 1           | Standard |
| Mn      | 55   | <b>173.155</b> | ug/L  | 4.765    | 2         | 1132          | 5040339       | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 28830         | 2           | KED      |
| Ni      | 60   | <b>37.447</b>  | ug/L  | 0.600    | 1         | 138           | 41131         | 0           | KED      |
| Ni      | 62   | <b>37.363</b>  | ug/L  | 0.787    | 2         | 33            | 6703          | 3           | KED      |
| Cu      | 63   | <b>56.755</b>  | ug/L  | 0.412    | 0         | 80            | 181264        | 1           | KED      |
| Cu      | 65   | <b>55.874</b>  | ug/L  | 1.792    | 3         | 24            | 88074         | 1           | KED      |
| Zn      | 66   | <b>139.012</b> | ug/L  | 1.754    | 1         | 43            | 56235         | 0           | KED      |
| Zn      | 67   | <b>131.456</b> | ug/L  | 3.067    | 2         | 3             | 8847          | 2           | KED      |
| As      | 75   | <b>30.605</b>  | ug/L  | 0.601    | 1         | 16            | 6460          | 0           | KED      |
| Se      | 78   | <b>73.592</b>  | ug/L  | 0.449    | 0         | 19            | 1758          | 1           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 517395        | 0           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 110           | 10          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7870          | 0           | KED      |
| Cd      | 111  | <b>25.061</b>  | ug/L  | 0.127    | 0         | 4             | 5829          | 0           | KED      |
| Cd      | 114  | <b>24.735</b>  | ug/L  | 0.610    | 2         | 2             | 14148         | 2           | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 398745        | 1           | Standard |
| Ag      | 107  | <b>20.832</b>  | ug/L  | 0.449    | 2         | 89            | 276903        | 1           | Standard |
| Ba      | 135  | <b>68.134</b>  | ug/L  | 1.556    | 2         | 37            | 227123        | 2           | Standard |
| Ba      | 137  | <b>67.967</b>  | ug/L  | 1.998    | 2         | 46            | 402062        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 710578        | 0           | Standard |
| Pb      | 208  | <b>39.669</b>  | ug/L  | 0.260    | 0         | 200           | 1746294       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0123-PS1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 19:25:55**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 62326         | 1           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4281311       | 3           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 627013        | 0           | Standard |
| Cr      | 52   | <b>35.893</b>  | ug/L  | 0.719    | 2         | 17159         | 757769        | 1           | Standard |
| Cr      | 53   | <b>37.123</b>  | ug/L  | 0.312    | 0         | 216           | 88367         | 1           | Standard |
| Mn      | 55   | <b>173.853</b> | ug/L  | 0.430    | 0         | 1132          | 5022663       | 0           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 29410         | 0           | KED      |
| Ni      | 60   | <b>37.691</b>  | ug/L  | 0.466    | 1         | 138           | 42240         | 1           | KED      |
| Ni      | 62   | <b>37.909</b>  | ug/L  | 0.912    | 2         | 33            | 6936          | 1           | KED      |
| Cu      | 63   | <b>57.761</b>  | ug/L  | 0.613    | 1         | 80            | 188217        | 1           | KED      |
| Cu      | 65   | <b>57.093</b>  | ug/L  | 0.673    | 1         | 24            | 91854         | 1           | KED      |
| Zn      | 66   | <b>137.816</b> | ug/L  | 2.108    | 1         | 43            | 56881         | 1           | KED      |
| Zn      | 67   | <b>130.851</b> | ug/L  | 4.134    | 3         | 3             | 8983          | 2           | KED      |
| As      | 75   | <b>32.554</b>  | ug/L  | 0.765    | 2         | 16            | 7010          | 1           | KED      |
| Se      | 78   | <b>77.853</b>  | ug/L  | 1.956    | 2         | 19            | 1897          | 3           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 520138        | 2           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 102           | 11          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7997          | 1           | KED      |
| Cd      | 111  | <b>26.087</b>  | ug/L  | 0.739    | 2         | 4             | 6164          | 2           | KED      |
| Cd      | 114  | <b>25.342</b>  | ug/L  | 0.288    | 1         | 2             | 14729         | 1           | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 397140        | 1           | Standard |
| Ag      | 107  | <b>26.963</b>  | ug/L  | 0.282    | 1         | 89            | 357025        | 2           | Standard |
| Ba      | 135  | <b>66.149</b>  | ug/L  | 2.111    | 3         | 37            | 219589        | 2           | Standard |
| Ba      | 137  | <b>66.659</b>  | ug/L  | 1.451    | 2         | 46            | 392791        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 709532        | 2           | Standard |
| Pb      | 208  | <b>40.470</b>  | ug/L  | 1.067    | 2         | 200           | 1778285       | 0           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 19:30:40

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 32377         | 3           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4085098       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 489192        | 1           | Standard |
| Cr      | 52   | -0.031     | ug/L  | 0.035    | 112       | 17159         | 14861         | 2           | Standard |
| Cr      | 53   | -0.012     | ug/L  | 0.005    | 37        | 216           | 171           | 3           | Standard |
| Mn      | 55   | -0.003     | ug/L  | 0.003    | 91        | 1132          | 944           | 7           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 28656         | 2           | KED      |
| Ni      | 60   | -0.088     | ug/L  | 0.001    | 1         | 138           | 36            | 2           | KED      |
| Ni      | 62   | -0.125     | ug/L  | 0.032    | 25        | 33            | 10            | 57          | KED      |
| Cu      | 63   | 0.031      | ug/L  | 0.009    | 29        | 80            | 177           | 15          | KED      |
| Cu      | 65   | 0.041      | ug/L  | 0.002    | 6         | 24            | 87            | 2           | KED      |
| Zn      | 66   | 0.003      | ug/L  | 0.020    | 672       | 43            | 42            | 16          | KED      |
| Zn      | 67   | 0.060      | ug/L  | 0.031    | 51        | 3             | 7             | 25          | KED      |
| As      | 75   | -0.057     | ug/L  | 0.004    | 6         | 16            | 3             | 19          | KED      |
| Se      | 78   | -0.089     | ug/L  | 0.139    | 156       | 19            | 17            | 20          | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 277834        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 45            | 14          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 7769          | 3           | KED      |
| Cd      | 111  | -0.009     | ug/L  | 0.004    | 51        | 4             | 1             | 50          | KED      |
| Cd      | 114  | 0.007      | ug/L  | 0.004    | 55        | 2             | 6             | 34          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 389818        | 0           | Standard |
| Ag      | 107  | -0.001     | ug/L  | 0.001    | 64        | 89            | 68            | 14          | Standard |
| Ba      | 135  | 0.003      | ug/L  | 0.003    | 123       | 37            | 44            | 25          | Standard |
| Ba      | 137  | 0.007      | ug/L  | 0.001    | 10        | 46            | 83            | 4           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 669078        | 2           | Standard |
| Pb      | 208  | -0.000     | ug/L  | 0.001    | 352       | 200           | 172           | 30          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 19:35:24

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 30055         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4320009       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 504170        | 0           | Standard |
| Cr      | 52   | 50.354     | ug/L  | 0.712    | 1         | 17159         | 848541        | 2           | Standard |
| Cr      | 53   | 51.120     | ug/L  | 1.449    | 2         | 216           | 97782         | 3           | Standard |
| Mn      | 55   | 50.325     | ug/L  | 0.547    | 1         | 1132          | 1169865       | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 28456         | 0           | KED      |
| Ni      | 60   | 48.069     | ug/L  | 0.694    | 1         | 138           | 52086         | 0           | KED      |
| Ni      | 62   | 49.768     | ug/L  | 1.718    | 3         | 33            | 8802          | 3           | KED      |
| Cu      | 63   | 49.625     | ug/L  | 1.197    | 2         | 80            | 156452        | 1           | KED      |
| Cu      | 65   | 49.694     | ug/L  | 0.415    | 0         | 24            | 77356         | 1           | KED      |
| Zn      | 66   | 50.168     | ug/L  | 1.091    | 2         | 43            | 20061         | 1           | KED      |
| Zn      | 67   | 51.309     | ug/L  | 1.762    | 3         | 3             | 3410          | 3           | KED      |
| As      | 75   | 49.865     | ug/L  | 0.608    | 1         | 16            | 10382         | 0           | KED      |
| [ Se    | 78   | 49.798     | ug/L  | 1.897    | 3         | 19            | 1181          | 3           | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 286710        | 3           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 54            | 23          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 7876          | 1           | KED      |
| Cd      | 111  | 50.030     | ug/L  | 0.419    | 0         | 4             | 11640         | 1           | KED      |
| [ Cd    | 114  | 49.855     | ug/L  | 1.063    | 2         | 2             | 28532         | 0           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 387579        | 2           | Standard |
| Ag      | 107  | 52.355     | ug/L  | 0.193    | 0         | 89            | 676394        | 1           | Standard |
| Ba      | 135  | 52.061     | ug/L  | 0.419    | 0         | 37            | 168687        | 1           | Standard |
| [ Ba    | 137  | 51.453     | ug/L  | 0.770    | 1         | 46            | 295865        | 0           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 688907        | 1           | Standard |
| [ Pb    | 208  | 49.121     | ug/L  | 0.460    | 0         | 200           | 2096224       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 19:42:53

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 29722         | 0           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4242139       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 489017        | 0           | Standard |
| Cr      | 52   | -0.026     | ug/L  | 0.027    | 103       | 17159         | 14950         | 2           | Standard |
| Cr      | 53   | -0.025     | ug/L  | 0.008    | 31        | 216           | 147           | 8           | Standard |
| Mn      | 55   | -0.012     | ug/L  | 0.001    | 8         | 1132          | 740           | 2           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 27734         | 0           | KED      |
| Ni      | 60   | -0.090     | ug/L  | 0.003    | 2         | 138           | 33            | 8           | KED      |
| Ni      | 62   | -0.138     | ug/L  | 0.033    | 23        | 33            | 7             | 75          | KED      |
| Cu      | 63   | -0.007     | ug/L  | 0.003    | 33        | 80            | 52            | 14          | KED      |
| Cu      | 65   | 0.001      | ug/L  | 0.004    | 553       | 24            | 24            | 25          | KED      |
| Zn      | 66   | -0.033     | ug/L  | 0.025    | 74        | 43            | 27            | 35          | KED      |
| Zn      | 67   | 0.044      | ug/L  | 0.095    | 218       | 3             | 6             | 96          | KED      |
| As      | 75   | -0.043     | ug/L  | 0.004    | 8         | 16            | 6             | 11          | KED      |
| Se      | 78   | -0.106     | ug/L  | 0.101    | 95        | 19            | 16            | 14          | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 275683        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 37            | 30          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 7716          | 1           | KED      |
| Cd      | 111  | -0.006     | ug/L  | 0.005    | 78        | 4             | 2             | 43          | KED      |
| Cd      | 114  | 0.003      | ug/L  | 0.007    | 253       | 2             | 3             | 102         | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 391686        | 1           | Standard |
| Ag      | 107  | -0.001     | ug/L  | 0.001    | 86        | 89            | 71            | 14          | Standard |
| Ba      | 135  | -0.004     | ug/L  | 0.003    | 63        | 37            | 20            | 41          | Standard |
| Ba      | 137  | -0.001     | ug/L  | 0.001    | 83        | 46            | 36            | 18          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 660183        | 1           | Standard |
| Pb      | 208  | -0.000     | ug/L  | 0.001    | 1977      | 200           | 180           | 25          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-02**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 19:47:38**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 52636         | 1           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4181363       | 1           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 610427        | 0           | Standard |
| Cr      | 52   | <b>13.744</b>  | ug/L  | 0.221    | 1         | 17159         | 294356        | 1           | Standard |
| Cr      | 53   | <b>13.951</b>  | ug/L  | 0.194    | 1         | 216           | 32481         | 1           | Standard |
| Mn      | 55   | <b>137.044</b> | ug/L  | 0.825    | 0         | 1132          | 3854764       | 0           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 28864         | 2           | KED      |
| Ni      | 60   | <b>13.226</b>  | ug/L  | 0.519    | 3         | 138           | 14624         | 1           | KED      |
| Ni      | 62   | <b>13.195</b>  | ug/L  | 0.712    | 5         | 33            | 2391          | 6           | KED      |
| Cu      | 63   | <b>21.558</b>  | ug/L  | 0.392    | 1         | 80            | 68968         | 1           | KED      |
| Cu      | 65   | <b>21.385</b>  | ug/L  | 0.519    | 2         | 24            | 33770         | 2           | KED      |
| Zn      | 66   | <b>48.207</b>  | ug/L  | 0.174    | 0         | 43            | 19554         | 2           | KED      |
| Zn      | 67   | <b>44.501</b>  | ug/L  | 0.348    | 0         | 3             | 3001          | 3           | KED      |
| As      | 75   | <b>4.167</b>   | ug/L  | 0.063    | 1         | 16            | 894           | 2           | KED      |
| Se      | 78   | <b>0.932</b>   | ug/L  | 0.241    | 25        | 19            | 41            | 13          | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 525404        | 1           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 100           | 15          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7884          | 1           | KED      |
| Cd      | 111  | <b>0.126</b>   | ug/L  | 0.038    | 30        | 4             | 33            | 26          | KED      |
| Cd      | 114  | <b>0.157</b>   | ug/L  | 0.027    | 16        | 2             | 92            | 16          | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 390942        | 1           | Standard |
| Ag      | 107  | <b>0.093</b>   | ug/L  | 0.003    | 2         | 89            | 1291          | 3           | Standard |
| Ba      | 135  | <b>30.433</b>  | ug/L  | 0.109    | 0         | 37            | 99488         | 0           | Standard |
| Ba      | 137  | <b>31.030</b>  | ug/L  | 0.531    | 1         | 46            | 180014        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 713299        | 2           | Standard |
| Pb      | 208  | <b>9.067</b>   | ug/L  | 0.188    | 2         | 200           | 400707        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-03**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 19:52:21**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 57249         | 1           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4180821       | 0           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 616756        | 1           | Standard |
| Cr      | 52   | <b>13.727</b>  | ug/L  | 0.057    | 0         | 17159         | 297054        | 0           | Standard |
| Cr      | 53   | <b>13.927</b>  | ug/L  | 0.155    | 1         | 216           | 32763         | 2           | Standard |
| Mn      | 55   | <b>173.961</b> | ug/L  | 2.122    | 1         | 1132          | 4943334       | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 29060         | 1           | KED      |
| Ni      | 60   | <b>12.103</b>  | ug/L  | 0.203    | 1         | 138           | 13492         | 0           | KED      |
| Ni      | 62   | <b>11.898</b>  | ug/L  | 0.581    | 4         | 33            | 2172          | 3           | KED      |
| Cu      | 63   | <b>24.250</b>  | ug/L  | 0.211    | 0         | 80            | 78115         | 1           | KED      |
| Cu      | 65   | <b>24.760</b>  | ug/L  | 0.132    | 0         | 24            | 39371         | 1           | KED      |
| Zn      | 66   | <b>49.568</b>  | ug/L  | 0.831    | 1         | 43            | 20242         | 2           | KED      |
| Zn      | 67   | <b>47.992</b>  | ug/L  | 1.198    | 2         | 3             | 3257          | 1           | KED      |
| As      | 75   | <b>6.569</b>   | ug/L  | 0.196    | 2         | 16            | 1410          | 1           | KED      |
| Se      | 78   | <b>0.935</b>   | ug/L  | 0.169    | 18        | 19            | 41            | 11          | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 511903        | 0           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 83            | 31          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7912          | 2           | KED      |
| Cd      | 111  | <b>0.141</b>   | ug/L  | 0.038    | 26        | 4             | 36            | 23          | KED      |
| Cd      | 114  | <b>0.158</b>   | ug/L  | 0.015    | 9         | 2             | 93            | 10          | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 400750        | 0           | Standard |
| Ag      | 107  | <b>0.108</b>   | ug/L  | 0.007    | 6         | 89            | 1529          | 5           | Standard |
| Ba      | 135  | <b>35.193</b>  | ug/L  | 0.223    | 0         | 37            | 117929        | 0           | Standard |
| Ba      | 137  | <b>34.432</b>  | ug/L  | 0.440    | 1         | 46            | 204767        | 0           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 710521        | 0           | Standard |
| Pb      | 208  | <b>10.432</b>  | ug/L  | 0.125    | 1         | 200           | 459336        | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-04**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 19:57:05**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 61889         | 4           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4193783       | 0           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 624059        | 1           | Standard |
| Cr      | 52   | <b>13.565</b>  | ug/L  | 0.277    | 2         | 17159         | 297195        | 0           | Standard |
| Cr      | 53   | <b>13.789</b>  | ug/L  | 0.272    | 1         | 216           | 32816         | 0           | Standard |
| Mn      | 55   | <b>139.800</b> | ug/L  | 2.103    | 1         | 1132          | 4019463       | 0           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 28883         | 0           | KED      |
| Ni      | 60   | <b>11.934</b>  | ug/L  | 0.344    | 2         | 138           | 13225         | 2           | KED      |
| Ni      | 62   | <b>11.687</b>  | ug/L  | 0.225    | 1         | 33            | 2122          | 1           | KED      |
| Cu      | 63   | <b>23.193</b>  | ug/L  | 0.258    | 1         | 80            | 74259         | 0           | KED      |
| Cu      | 65   | <b>23.789</b>  | ug/L  | 0.806    | 3         | 24            | 37596         | 3           | KED      |
| Zn      | 66   | <b>47.525</b>  | ug/L  | 0.382    | 0         | 43            | 19292         | 1           | KED      |
| Zn      | 67   | <b>47.153</b>  | ug/L  | 0.299    | 0         | 3             | 3181          | 1           | KED      |
| As      | 75   | <b>4.853</b>   | ug/L  | 0.061    | 1         | 16            | 1039          | 1           | KED      |
| Se      | 78   | <b>0.904</b>   | ug/L  | 0.128    | 14        | 19            | 40            | 7           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 509235        | 1           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 123           | 17          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7901          | 4           | KED      |
| Cd      | 111  | <b>0.136</b>   | ug/L  | 0.033    | 23        | 4             | 35            | 20          | KED      |
| Cd      | 114  | <b>0.138</b>   | ug/L  | 0.022    | 15        | 2             | 81            | 15          | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 395036        | 1           | Standard |
| Ag      | 107  | <b>0.099</b>   | ug/L  | 0.004    | 3         | 89            | 1394          | 4           | Standard |
| Ba      | 135  | <b>36.287</b>  | ug/L  | 1.070    | 2         | 37            | 119830        | 1           | Standard |
| Ba      | 137  | <b>36.009</b>  | ug/L  | 0.877    | 2         | 46            | 211050        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 701982        | 2           | Standard |
| Pb      | 208  | <b>10.090</b>  | ug/L  | 0.192    | 1         | 200           | 438794        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-05**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 20:01:49**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 53291         | 1           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4187431       | 1           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 570657        | 2           | Standard |
| Cr      | 52   | <b>9.835</b>   | ug/L  | 0.246    | 2         | 17159         | 201934        | 1           | Standard |
| Cr      | 53   | <b>10.093</b>  | ug/L  | 0.213    | 2         | 216           | 22024         | 1           | Standard |
| Mn      | 55   | <b>125.120</b> | ug/L  | 2.006    | 1         | 1132          | 3289349       | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 28575         | 2           | KED      |
| Ni      | 60   | <b>8.281</b>   | ug/L  | 0.257    | 3         | 138           | 9116          | 0           | KED      |
| Ni      | 62   | <b>8.410</b>   | ug/L  | 0.355    | 4         | 33            | 1519          | 1           | KED      |
| Cu      | 63   | <b>27.763</b>  | ug/L  | 0.370    | 1         | 80            | 87936         | 2           | KED      |
| Cu      | 65   | <b>28.512</b>  | ug/L  | 0.510    | 1         | 24            | 44567         | 0           | KED      |
| Zn      | 66   | <b>35.124</b>  | ug/L  | 0.985    | 2         | 43            | 14111         | 0           | KED      |
| Zn      | 67   | <b>34.082</b>  | ug/L  | 1.769    | 5         | 3             | 2275          | 3           | KED      |
| As      | 75   | <b>4.398</b>   | ug/L  | 0.108    | 2         | 16            | 933           | 0           | KED      |
| Se      | 78   | <b>0.735</b>   | ug/L  | 0.216    | 29        | 19            | 36            | 11          | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 441818        | 1           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 93            | 9           | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7710          | 1           | KED      |
| Cd      | 111  | <b>0.092</b>   | ug/L  | 0.005    | 5         | 4             | 24            | 3           | KED      |
| Cd      | 114  | <b>0.092</b>   | ug/L  | 0.015    | 16        | 2             | 54            | 16          | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 389715        | 3           | Standard |
| Ag      | 107  | <b>0.071</b>   | ug/L  | 0.003    | 4         | 89            | 1003          | 5           | Standard |
| Ba      | 135  | <b>23.453</b>  | ug/L  | 0.706    | 3         | 37            | 76383         | 0           | Standard |
| Ba      | 137  | <b>23.002</b>  | ug/L  | 0.947    | 4         | 46            | 132919        | 0           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 695866        | 3           | Standard |
| Pb      | 208  | <b>7.172</b>   | ug/L  | 0.254    | 3         | 200           | 309101        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-06**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 20:06:33**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 57765         | 2           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4150372       | 1           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 620344        | 1           | Standard |
| Cr      | 52   | <b>13.278</b>  | ug/L  | 0.219    | 1         | 17159         | 289628        | 0           | Standard |
| Cr      | 53   | <b>13.638</b>  | ug/L  | 0.378    | 2         | 216           | 32265         | 1           | Standard |
| Mn      | 55   | <b>147.446</b> | ug/L  | 2.240    | 1         | 1132          | 4214157       | 0           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 28966         | 1           | KED      |
| Ni      | 60   | <b>11.341</b>  | ug/L  | 0.239    | 2         | 138           | 12609         | 0           | KED      |
| Ni      | 62   | <b>11.496</b>  | ug/L  | 0.129    | 1         | 33            | 2094          | 2           | KED      |
| Cu      | 63   | <b>26.986</b>  | ug/L  | 0.884    | 3         | 80            | 86614         | 1           | KED      |
| Cu      | 65   | <b>27.359</b>  | ug/L  | 0.349    | 1         | 24            | 43364         | 2           | KED      |
| Zn      | 66   | <b>67.767</b>  | ug/L  | 0.532    | 0         | 43            | 27568         | 1           | KED      |
| Zn      | 67   | <b>65.855</b>  | ug/L  | 3.828    | 5         | 3             | 4452          | 3           | KED      |
| As      | 75   | <b>5.221</b>   | ug/L  | 0.373    | 7         | 16            | 1119          | 5           | KED      |
| Se      | 78   | <b>0.840</b>   | ug/L  | 0.152    | 18        | 19            | 39            | 7           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 501422        | 0           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 106           | 15          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7988          | 0           | KED      |
| Cd      | 111  | <b>0.159</b>   | ug/L  | 0.003    | 1         | 4             | 41            | 1           | KED      |
| Cd      | 114  | <b>0.181</b>   | ug/L  | 0.035    | 19        | 2             | 107           | 19          | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 391825        | 1           | Standard |
| Ag      | 107  | <b>0.120</b>   | ug/L  | 0.002    | 1         | 89            | 1652          | 1           | Standard |
| Ba      | 135  | <b>47.402</b>  | ug/L  | 0.793    | 1         | 37            | 155274        | 1           | Standard |
| Ba      | 137  | <b>46.774</b>  | ug/L  | 0.972    | 2         | 46            | 271902        | 0           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 710526        | 1           | Standard |
| Pb      | 208  | <b>11.691</b>  | ug/L  | 0.336    | 2         | 200           | 514577        | 1           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-07**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 20:11:17**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30728         | 49686         | 0           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4438068       | 4168698       | 1           | Standard |
| > Sc    | 45   |               | ug/L  |          |           | 546109        | 593374        | 1           | Standard |
| Cr      | 52   | <b>9.984</b>  | ug/L  | 0.204    | 2         | 17159         | 212932        | 1           | Standard |
| Cr      | 53   | <b>10.122</b> | ug/L  | 0.187    | 1         | 216           | 22970         | 1           | Standard |
| Mn      | 55   | <b>90.594</b> | ug/L  | 1.036    | 1         | 1132          | 2477300       | 1           | Standard |
| > Ge    | 72   |               | ug/L  |          |           | 29835         | 28963         | 1           | KED      |
| Ni      | 60   | <b>8.407</b>  | ug/L  | 0.129    | 1         | 138           | 9382          | 1           | KED      |
| Ni      | 62   | <b>8.245</b>  | ug/L  | 0.292    | 3         | 33            | 1511          | 3           | KED      |
| Cu      | 63   | <b>15.021</b> | ug/L  | 0.141    | 0         | 80            | 48258         | 2           | KED      |
| Cu      | 65   | <b>15.578</b> | ug/L  | 0.267    | 1         | 24            | 24692         | 0           | KED      |
| Zn      | 66   | <b>28.823</b> | ug/L  | 0.557    | 1         | 43            | 11746         | 0           | KED      |
| Zn      | 67   | <b>26.764</b> | ug/L  | 0.886    | 3         | 3             | 1812          | 2           | KED      |
| As      | 75   | <b>3.687</b>  | ug/L  | 0.156    | 4         | 16            | 795           | 2           | KED      |
| Se      | 78   | <b>0.696</b>  | ug/L  | 0.127    | 18        | 19            | 35            | 7           | KED      |
| Y       | 89   |               | ug/L  |          |           | 297640        | 474526        | 0           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 100           | 4           | Standard |
| > In-1  | 115  |               | ug/L  |          |           | 8217          | 7829          | 0           | KED      |
| Cd      | 111  | <b>0.053</b>  | ug/L  | 0.018    | 34        | 4             | 16            | 26          | KED      |
| Cd      | 114  | <b>0.047</b>  | ug/L  | 0.001    | 2         | 2             | 28            | 3           | KED      |
| > In    | 115  |               | ug/L  |          |           | 413136        | 398001        | 0           | Standard |
| Ag      | 107  | <b>0.056</b>  | ug/L  | 0.001    | 2         | 89            | 823           | 2           | Standard |
| Ba      | 135  | <b>24.484</b> | ug/L  | 0.356    | 1         | 37            | 81492         | 1           | Standard |
| Ba      | 137  | <b>24.482</b> | ug/L  | 0.401    | 1         | 46            | 144607        | 1           | Standard |
| > Tb    | 159  |               | ug/L  |          |           | 720127        | 707107        | 0           | Standard |
| Pb      | 208  | <b>4.540</b>  | ug/L  | 0.067    | 1         | 200           | 199032        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-08**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 20:16:01**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 58031         | 0           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4211433       | 1           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 586630        | 1           | Standard |
| Cr      | 52   | <b>13.053</b>  | ug/L  | 0.279    | 2         | 17159         | 269523        | 0           | Standard |
| Cr      | 53   | <b>13.405</b>  | ug/L  | 0.148    | 1         | 216           | 30005         | 2           | Standard |
| Mn      | 55   | <b>141.264</b> | ug/L  | 4.271    | 3         | 1132          | 3817155       | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 28645         | 0           | KED      |
| Ni      | 60   | <b>10.447</b>  | ug/L  | 0.263    | 2         | 138           | 11499         | 2           | KED      |
| Ni      | 62   | <b>11.100</b>  | ug/L  | 0.230    | 2         | 33            | 2001          | 2           | KED      |
| Cu      | 63   | <b>20.527</b>  | ug/L  | 0.146    | 0         | 80            | 65195         | 1           | KED      |
| Cu      | 65   | <b>20.773</b>  | ug/L  | 0.196    | 0         | 24            | 32562         | 0           | KED      |
| Zn      | 66   | <b>44.922</b>  | ug/L  | 0.922    | 2         | 43            | 18086         | 1           | KED      |
| Zn      | 67   | <b>42.415</b>  | ug/L  | 2.451    | 5         | 3             | 2839          | 5           | KED      |
| As      | 75   | <b>4.938</b>   | ug/L  | 0.091    | 1         | 16            | 1049          | 2           | KED      |
| Se      | 78   | <b>0.609</b>   | ug/L  | 0.031    | 5         | 19            | 33            | 1           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 477015        | 0           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 85            | 5           | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 8027          | 2           | KED      |
| Cd      | 111  | <b>0.134</b>   | ug/L  | 0.031    | 23        | 4             | 35            | 22          | KED      |
| Cd      | 114  | <b>0.132</b>   | ug/L  | 0.029    | 21        | 2             | 78            | 19          | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 384321        | 3           | Standard |
| Ag      | 107  | <b>0.092</b>   | ug/L  | 0.008    | 8         | 89            | 1262          | 5           | Standard |
| Ba      | 135  | <b>33.152</b>  | ug/L  | 1.159    | 3         | 37            | 106452        | 0           | Standard |
| Ba      | 137  | <b>32.939</b>  | ug/L  | 1.103    | 3         | 46            | 187724        | 0           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 698904        | 2           | Standard |
| Pb      | 208  | <b>9.225</b>   | ug/L  | 0.222    | 2         | 200           | 399411        | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-09**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 20:20:45**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 62629         | 1           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4267319       | 0           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 597616        | 0           | Standard |
| Cr      | 52   | <b>12.994</b>  | ug/L  | 0.206    | 1         | 17159         | 273458        | 1           | Standard |
| Cr      | 53   | <b>13.558</b>  | ug/L  | 0.170    | 1         | 216           | 30909         | 1           | Standard |
| Mn      | 55   | <b>156.834</b> | ug/L  | 2.443    | 1         | 1132          | 4318678       | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 28621         | 1           | KED      |
| Ni      | 60   | <b>10.490</b>  | ug/L  | 0.232    | 2         | 138           | 11534         | 0           | KED      |
| Ni      | 62   | <b>10.443</b>  | ug/L  | 0.278    | 2         | 33            | 1882          | 1           | KED      |
| Cu      | 63   | <b>25.081</b>  | ug/L  | 0.204    | 0         | 80            | 79574         | 1           | KED      |
| Cu      | 65   | <b>24.927</b>  | ug/L  | 0.129    | 0         | 24            | 39036         | 0           | KED      |
| Zn      | 66   | <b>52.237</b>  | ug/L  | 2.407    | 4         | 43            | 21000         | 3           | KED      |
| Zn      | 67   | <b>49.963</b>  | ug/L  | 0.986    | 1         | 3             | 3340          | 0           | KED      |
| As      | 75   | <b>6.685</b>   | ug/L  | 0.170    | 2         | 16            | 1413          | 1           | KED      |
| Se      | 78   | <b>0.713</b>   | ug/L  | 0.313    | 43        | 19            | 35            | 20          | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 476118        | 3           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 114           | 12          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7812          | 1           | KED      |
| Cd      | 111  | <b>0.139</b>   | ug/L  | 0.018    | 13        | 4             | 35            | 10          | KED      |
| Cd      | 114  | <b>0.172</b>   | ug/L  | 0.026    | 15        | 2             | 100           | 16          | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 391948        | 0           | Standard |
| Ag      | 107  | <b>0.131</b>   | ug/L  | 0.003    | 2         | 89            | 1789          | 2           | Standard |
| Ba      | 135  | <b>37.162</b>  | ug/L  | 0.552    | 1         | 37            | 121786        | 1           | Standard |
| Ba      | 137  | <b>36.608</b>  | ug/L  | 0.476    | 1         | 46            | 212926        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 692511        | 0           | Standard |
| Pb      | 208  | <b>11.583</b>  | ug/L  | 0.098    | 0         | 200           | 497038        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-10**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 20:25:29**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 56795         | 3           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4162115       | 2           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 595458        | 1           | Standard |
| Cr      | 52   | <b>12.166</b>  | ug/L  | 0.196    | 1         | 17159         | 256302        | 1           | Standard |
| Cr      | 53   | <b>12.533</b>  | ug/L  | 0.140    | 1         | 216           | 28486         | 0           | Standard |
| Mn      | 55   | <b>134.074</b> | ug/L  | 2.154    | 1         | 1132          | 3678531       | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 27690         | 2           | KED      |
| Ni      | 60   | <b>10.789</b>  | ug/L  | 0.227    | 2         | 138           | 11473         | 0           | KED      |
| Ni      | 62   | <b>11.407</b>  | ug/L  | 0.692    | 6         | 33            | 1985          | 3           | KED      |
| Cu      | 63   | <b>27.591</b>  | ug/L  | 0.543    | 1         | 80            | 84668         | 1           | KED      |
| Cu      | 65   | <b>27.455</b>  | ug/L  | 0.465    | 1         | 24            | 41589         | 0           | KED      |
| Zn      | 66   | <b>54.253</b>  | ug/L  | 1.739    | 3         | 43            | 21100         | 1           | KED      |
| Zn      | 67   | <b>52.540</b>  | ug/L  | 0.887    | 1         | 3             | 3397          | 0           | KED      |
| As      | 75   | <b>6.775</b>   | ug/L  | 0.140    | 2         | 16            | 1385          | 0           | KED      |
| Se      | 78   | <b>0.828</b>   | ug/L  | 0.214    | 25        | 19            | 37            | 10          | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 472114        | 4           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 113           | 27          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7718          | 2           | KED      |
| Cd      | 111  | <b>0.178</b>   | ug/L  | 0.024    | 13        | 4             | 44            | 14          | KED      |
| Cd      | 114  | <b>0.174</b>   | ug/L  | 0.014    | 8         | 2             | 99            | 8           | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 384313        | 1           | Standard |
| Ag      | 107  | <b>0.123</b>   | ug/L  | 0.001    | 0         | 89            | 1660          | 1           | Standard |
| Ba      | 135  | <b>35.517</b>  | ug/L  | 0.262    | 0         | 37            | 114129        | 0           | Standard |
| Ba      | 137  | <b>34.818</b>  | ug/L  | 1.098    | 3         | 46            | 198524        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 704574        | 1           | Standard |
| Pb      | 208  | <b>11.867</b>  | ug/L  | 0.223    | 1         | 200           | 518020        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 20:30:13

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 31700         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 3955662       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 475846        | 1           | Standard |
| Cr      | 52   | -0.030     | ug/L  | 0.002    | 8         | 17159         | 14476         | 1           | Standard |
| Cr      | 53   | -0.023     | ug/L  | 0.006    | 25        | 216           | 146           | 5           | Standard |
| Mn      | 55   | -0.007     | ug/L  | 0.004    | 56        | 1132          | 824           | 9           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 27184         | 1           | KED      |
| Ni      | 60   | -0.101     | ug/L  | 0.004    | 4         | 138           | 22            | 21          | KED      |
| Ni      | 62   | -0.129     | ug/L  | 0.029    | 22        | 33            | 8             | 53          | KED      |
| Cu      | 63   | 0.031      | ug/L  | 0.008    | 26        | 80            | 168           | 15          | KED      |
| Cu      | 65   | 0.035      | ug/L  | 0.006    | 16        | 24            | 74            | 12          | KED      |
| Zn      | 66   | -0.007     | ug/L  | 0.014    | 211       | 43            | 36            | 15          | KED      |
| Zn      | 67   | 0.126      | ug/L  | 0.062    | 49        | 3             | 11            | 33          | KED      |
| As      | 75   | -0.049     | ug/L  | 0.006    | 11        | 16            | 5             | 23          | KED      |
| Se      | 78   | -0.065     | ug/L  | 0.159    | 245       | 19            | 16            | 22          | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 268215        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 44            | 17          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 7723          | 2           | KED      |
| Cd      | 111  | 0.008      | ug/L  | 0.010    | 131       | 4             | 5             | 44          | KED      |
| Cd      | 114  | -0.002     | ug/L  | 0.002    | 100       | 2             | 1             | 94          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 375112        | 0           | Standard |
| Ag      | 107  | -0.004     | ug/L  | 0.000    | 6         | 89            | 33            | 8           | Standard |
| Ba      | 135  | 0.004      | ug/L  | 0.002    | 38        | 37            | 46            | 10          | Standard |
| Ba      | 137  | 0.006      | ug/L  | 0.002    | 30        | 46            | 73            | 13          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 638321        | 2           | Standard |
| Pb      | 208  | -0.001     | ug/L  | 0.001    | 71        | 200           | 133           | 20          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 20:34:58

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 30314         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4229055       | 3           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 487772        | 0           | Standard |
| Cr      | 52   | 51.215     | ug/L  | 1.395    | 2         | 17159         | 834716        | 3           | Standard |
| Cr      | 53   | 51.869     | ug/L  | 1.168    | 2         | 216           | 95975         | 2           | Standard |
| Mn      | 55   | 50.580     | ug/L  | 0.627    | 1         | 1132          | 1137482       | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 28182         | 1           | KED      |
| Ni      | 60   | 48.359     | ug/L  | 1.019    | 2         | 138           | 51887         | 1           | KED      |
| Ni      | 62   | 48.114     | ug/L  | 0.776    | 1         | 33            | 8427          | 1           | KED      |
| Cu      | 63   | 48.204     | ug/L  | 0.915    | 1         | 80            | 150498        | 1           | KED      |
| Cu      | 65   | 48.332     | ug/L  | 1.303    | 2         | 24            | 74492         | 1           | KED      |
| Zn      | 66   | 49.938     | ug/L  | 1.831    | 3         | 43            | 19770         | 2           | KED      |
| Zn      | 67   | 49.313     | ug/L  | 1.131    | 2         | 3             | 3247          | 3           | KED      |
| As      | 75   | 49.272     | ug/L  | 0.640    | 1         | 16            | 10159         | 0           | KED      |
| [ Se    | 78   | 48.617     | ug/L  | 0.429    | 0         | 19            | 1142          | 1           | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 273611        | 3           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 41            | 12          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 7829          | 2           | KED      |
| Cd      | 111  | 49.138     | ug/L  | 1.646    | 3         | 4             | 11360         | 1           | KED      |
| [ Cd    | 114  | 49.784     | ug/L  | 1.408    | 2         | 2             | 28315         | 0           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 378734        | 3           | Standard |
| Ag      | 107  | 51.994     | ug/L  | 1.201    | 2         | 89            | 656217        | 2           | Standard |
| Ba      | 135  | 52.612     | ug/L  | 1.892    | 3         | 37            | 166466        | 0           | Standard |
| [ Ba    | 137  | 51.857     | ug/L  | 2.262    | 4         | 46            | 291162        | 0           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 664425        | 1           | Standard |
| [ Pb    | 208  | 50.285     | ug/L  | 1.042    | 2         | 200           | 2069261       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 20:42:26

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 30091         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4081874       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 455662        | 7           | Standard |
| Cr      | 52   | 0.003      | ug/L  | 0.050    | 1820      | 17159         | 14320         | 3           | Standard |
| Cr      | 53   | -0.023     | ug/L  | 0.011    | 45        | 216           | 140           | 12          | Standard |
| Mn      | 55   | -0.008     | ug/L  | 0.006    | 81        | 1132          | 776           | 8           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 26830         | 1           | KED      |
| Ni      | 60   | -0.095     | ug/L  | 0.005    | 5         | 138           | 27            | 17          | KED      |
| Ni      | 62   | -0.121     | ug/L  | 0.014    | 11        | 33            | 10            | 21          | KED      |
| Cu      | 63   | -0.006     | ug/L  | 0.003    | 39        | 80            | 53            | 12          | KED      |
| Cu      | 65   | 0.000      | ug/L  | 0.003    | 867       | 24            | 22            | 22          | KED      |
| Zn      | 66   | -0.043     | ug/L  | 0.022    | 50        | 43            | 22            | 36          | KED      |
| Zn      | 67   | 0.006      | ug/L  | 0.030    | 498       | 3             | 3             | 50          | KED      |
| As      | 75   | -0.052     | ug/L  | 0.001    | 2         | 16            | 4             | 6           | KED      |
| Se      | 78   | -0.154     | ug/L  | 0.115    | 74        | 19            | 14            | 18          | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 256125        | 6           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 43            | 33          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 7309          | 2           | KED      |
| Cd      | 111  | 0.005      | ug/L  | 0.008    | 168       | 4             | 4             | 40          | KED      |
| Cd      | 114  | 0.003      | ug/L  | 0.004    | 129       | 2             | 3             | 53          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 367898        | 4           | Standard |
| Ag      | 107  | 0.002      | ug/L  | 0.004    | 201       | 89            | 102           | 41          | Standard |
| Ba      | 135  | -0.002     | ug/L  | 0.003    | 155       | 37            | 26            | 31          | Standard |
| Ba      | 137  | -0.000     | ug/L  | 0.005    | 1209      | 46            | 38            | 65          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 628462        | 8           | Standard |
| Pb      | 208  | 0.003      | ug/L  | 0.004    | 151       | 200           | 278           | 49          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-11**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 20:47:11**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 57804         | 2           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4137395       | 2           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 610424        | 0           | Standard |
| Cr      | 52   | <b>13.129</b>  | ug/L  | 0.164    | 1         | 17159         | 282031        | 1           | Standard |
| Cr      | 53   | <b>13.307</b>  | ug/L  | 0.026    | 0         | 216           | 30991         | 0           | Standard |
| Mn      | 55   | <b>156.452</b> | ug/L  | 3.310    | 2         | 1132          | 4400394       | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 28517         | 3           | KED      |
| Ni      | 60   | <b>11.708</b>  | ug/L  | 0.650    | 5         | 138           | 12796         | 2           | KED      |
| Ni      | 62   | <b>12.090</b>  | ug/L  | 0.526    | 4         | 33            | 2166          | 5           | KED      |
| Cu      | 63   | <b>28.948</b>  | ug/L  | 0.397    | 1         | 80            | 91470         | 2           | KED      |
| Cu      | 65   | <b>29.318</b>  | ug/L  | 1.103    | 3         | 24            | 45706         | 1           | KED      |
| Zn      | 66   | <b>53.920</b>  | ug/L  | 1.420    | 2         | 43            | 21592         | 2           | KED      |
| Zn      | 67   | <b>53.999</b>  | ug/L  | 1.007    | 1         | 3             | 3596          | 3           | KED      |
| As      | 75   | <b>6.031</b>   | ug/L  | 0.274    | 4         | 16            | 1270          | 1           | KED      |
| Se      | 78   | <b>0.861</b>   | ug/L  | 0.152    | 17        | 19            | 39            | 5           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 484931        | 1           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 99            | 9           | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7700          | 1           | KED      |
| Cd      | 111  | <b>0.168</b>   | ug/L  | 0.014    | 8         | 4             | 42            | 9           | KED      |
| Cd      | 114  | <b>0.182</b>   | ug/L  | 0.017    | 9         | 2             | 104           | 7           | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 393797        | 0           | Standard |
| Ag      | 107  | <b>0.133</b>   | ug/L  | 0.004    | 3         | 89            | 1836          | 3           | Standard |
| Ba      | 135  | <b>40.122</b>  | ug/L  | 0.792    | 1         | 37            | 132106        | 1           | Standard |
| Ba      | 137  | <b>40.243</b>  | ug/L  | 0.312    | 0         | 46            | 235183        | 0           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 704426        | 1           | Standard |
| Pb      | 208  | <b>12.352</b>  | ug/L  | 0.176    | 1         | 200           | 539160        | 1           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-12**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 20:51:55**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 56180         | 2           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4123823       | 2           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 600392        | 0           | Standard |
| Cr      | 52   | <b>12.563</b>  | ug/L  | 0.082    | 0         | 17159         | 266260        | 1           | Standard |
| Cr      | 53   | <b>12.495</b>  | ug/L  | 0.064    | 0         | 216           | 28637         | 0           | Standard |
| Mn      | 55   | <b>143.280</b> | ug/L  | 0.971    | 0         | 1132          | 3963837       | 0           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 28415         | 1           | KED      |
| Ni      | 60   | <b>10.894</b>  | ug/L  | 0.201    | 1         | 138           | 11891         | 3           | KED      |
| Ni      | 62   | <b>11.000</b>  | ug/L  | 0.781    | 7         | 33            | 1966          | 5           | KED      |
| Cu      | 63   | <b>25.345</b>  | ug/L  | 0.503    | 1         | 80            | 79821         | 1           | KED      |
| Cu      | 65   | <b>25.212</b>  | ug/L  | 0.364    | 1         | 24            | 39195         | 0           | KED      |
| Zn      | 66   | <b>49.542</b>  | ug/L  | 1.036    | 2         | 43            | 19779         | 0           | KED      |
| Zn      | 67   | <b>47.406</b>  | ug/L  | 0.356    | 0         | 3             | 3147          | 1           | KED      |
| As      | 75   | <b>5.273</b>   | ug/L  | 0.221    | 4         | 16            | 1109          | 3           | KED      |
| Se      | 78   | <b>0.636</b>   | ug/L  | 0.133    | 20        | 19            | 33            | 8           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 480932        | 3           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 85            | 5           | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7605          | 2           | KED      |
| Cd      | 111  | <b>0.156</b>   | ug/L  | 0.025    | 16        | 4             | 38            | 14          | KED      |
| Cd      | 114  | <b>0.170</b>   | ug/L  | 0.010    | 5         | 2             | 96            | 6           | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 389672        | 2           | Standard |
| Ag      | 107  | <b>0.127</b>   | ug/L  | 0.004    | 2         | 89            | 1737          | 0           | Standard |
| Ba      | 135  | <b>35.504</b>  | ug/L  | 0.565    | 1         | 37            | 115669        | 1           | Standard |
| Ba      | 137  | <b>36.185</b>  | ug/L  | 0.855    | 2         | 46            | 209184        | 0           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 687552        | 0           | Standard |
| Pb      | 208  | <b>12.244</b>  | ug/L  | 0.046    | 0         | 200           | 521664        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0180-01**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 20:56:39**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 58755         | 2           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4187119       | 1           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 614220        | 1           | Standard |
| Cr      | 52   | <b>15.218</b>  | ug/L  | 0.233    | 1         | 17159         | 325879        | 1           | Standard |
| Cr      | 53   | <b>15.306</b>  | ug/L  | 0.231    | 1         | 216           | 35832         | 1           | Standard |
| Mn      | 55   | <b>140.006</b> | ug/L  | 1.709    | 1         | 1132          | 3962242       | 0           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 28255         | 1           | KED      |
| Ni      | 60   | <b>12.559</b>  | ug/L  | 0.328    | 2         | 138           | 13610         | 3           | KED      |
| Ni      | 62   | <b>12.685</b>  | ug/L  | 0.377    | 2         | 33            | 2250          | 2           | KED      |
| Cu      | 63   | <b>34.908</b>  | ug/L  | 0.361    | 1         | 80            | 109305        | 2           | KED      |
| Cu      | 65   | <b>34.631</b>  | ug/L  | 0.481    | 1         | 24            | 53527         | 1           | KED      |
| Zn      | 66   | <b>65.298</b>  | ug/L  | 2.239    | 3         | 43            | 25907         | 2           | KED      |
| Zn      | 67   | <b>64.893</b>  | ug/L  | 1.370    | 2         | 3             | 4281          | 0           | KED      |
| As      | 75   | <b>5.951</b>   | ug/L  | 0.254    | 4         | 16            | 1243          | 3           | KED      |
| Se      | 78   | <b>0.992</b>   | ug/L  | 0.118    | 11        | 19            | 41            | 6           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 510191        | 0           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 113           | 9           | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7790          | 0           | KED      |
| Cd      | 111  | <b>0.259</b>   | ug/L  | 0.026    | 10        | 4             | 63            | 9           | KED      |
| Cd      | 114  | <b>0.255</b>   | ug/L  | 0.034    | 13        | 2             | 146           | 13          | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 388132        | 1           | Standard |
| Ag      | 107  | <b>0.206</b>   | ug/L  | 0.003    | 1         | 89            | 2743          | 2           | Standard |
| Ba      | 135  | <b>45.476</b>  | ug/L  | 0.974    | 2         | 37            | 147562        | 1           | Standard |
| Ba      | 137  | <b>45.766</b>  | ug/L  | 1.002    | 2         | 46            | 263553        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 696444        | 1           | Standard |
| Pb      | 208  | <b>20.703</b>  | ug/L  | 0.297    | 1         | 200           | 893233        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0180-02**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 21:01:23**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 60249         | 0           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4148651       | 0           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 626103        | 1           | Standard |
| Cr      | 52   | <b>14.692</b>  | ug/L  | 0.220    | 1         | 17159         | 321375        | 1           | Standard |
| Cr      | 53   | <b>14.824</b>  | ug/L  | 0.250    | 1         | 216           | 35377         | 0           | Standard |
| Mn      | 55   | <b>140.817</b> | ug/L  | 0.319    | 0         | 1132          | 4062698       | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 28067         | 0           | KED      |
| Ni      | 60   | <b>13.181</b>  | ug/L  | 0.024    | 0         | 138           | 14182         | 0           | KED      |
| Ni      | 62   | <b>13.555</b>  | ug/L  | 0.655    | 4         | 33            | 2387          | 4           | KED      |
| Cu      | 63   | <b>34.547</b>  | ug/L  | 0.844    | 2         | 80            | 107456        | 2           | KED      |
| Cu      | 65   | <b>35.117</b>  | ug/L  | 0.506    | 1         | 24            | 53925         | 1           | KED      |
| Zn      | 66   | <b>66.433</b>  | ug/L  | 1.254    | 1         | 43            | 26189         | 1           | KED      |
| Zn      | 67   | <b>63.332</b>  | ug/L  | 2.121    | 3         | 3             | 4151          | 3           | KED      |
| As      | 75   | <b>6.564</b>   | ug/L  | 0.189    | 2         | 16            | 1361          | 2           | KED      |
| Se      | 78   | <b>1.022</b>   | ug/L  | 0.162    | 15        | 19            | 42            | 9           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 514366        | 3           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 93            | 7           | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7900          | 2           | KED      |
| Cd      | 111  | <b>0.246</b>   | ug/L  | 0.040    | 16        | 4             | 61            | 17          | KED      |
| Cd      | 114  | <b>0.231</b>   | ug/L  | 0.040    | 17        | 2             | 135           | 19          | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 382391        | 1           | Standard |
| Ag      | 107  | <b>0.240</b>   | ug/L  | 0.007    | 2         | 89            | 3143          | 2           | Standard |
| Ba      | 135  | <b>46.457</b>  | ug/L  | 0.084    | 0         | 37            | 148535        | 1           | Standard |
| Ba      | 137  | <b>45.863</b>  | ug/L  | 0.858    | 1         | 46            | 260208        | 0           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 689600        | 1           | Standard |
| Pb      | 208  | <b>20.930</b>  | ug/L  | 0.037    | 0         | 200           | 894240        | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0180-03**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 21:06:07**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 55168         | 3           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4174102       | 1           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 607263        | 2           | Standard |
| Cr      | 52   | <b>13.816</b>  | ug/L  | 0.541    | 3         | 17159         | 294090        | 1           | Standard |
| Cr      | 53   | <b>14.242</b>  | ug/L  | 0.463    | 3         | 216           | 32964         | 1           | Standard |
| Mn      | 55   | <b>143.272</b> | ug/L  | 5.285    | 3         | 1132          | 4006901       | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 27817         | 3           | KED      |
| Ni      | 60   | <b>12.254</b>  | ug/L  | 0.204    | 1         | 138           | 13072         | 1           | KED      |
| Ni      | 62   | <b>12.226</b>  | ug/L  | 0.236    | 1         | 33            | 2137          | 3           | KED      |
| Cu      | 63   | <b>29.776</b>  | ug/L  | 0.978    | 3         | 80            | 91751         | 2           | KED      |
| Cu      | 65   | <b>30.333</b>  | ug/L  | 0.493    | 1         | 24            | 46151         | 2           | KED      |
| Zn      | 66   | <b>57.888</b>  | ug/L  | 1.864    | 3         | 43            | 22607         | 0           | KED      |
| Zn      | 67   | <b>55.104</b>  | ug/L  | 2.560    | 4         | 3             | 3576          | 1           | KED      |
| As      | 75   | <b>5.994</b>   | ug/L  | 0.080    | 1         | 16            | 1233          | 2           | KED      |
| Se      | 78   | <b>0.877</b>   | ug/L  | 0.110    | 12        | 19            | 38            | 9           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 515143        | 1           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 101           | 13          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7752          | 0           | KED      |
| Cd      | 111  | <b>0.187</b>   | ug/L  | 0.012    | 6         | 4             | 46            | 6           | KED      |
| Cd      | 114  | <b>0.200</b>   | ug/L  | 0.008    | 4         | 2             | 114           | 4           | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 390052        | 1           | Standard |
| Ag      | 107  | <b>0.148</b>   | ug/L  | 0.012    | 8         | 89            | 2005          | 6           | Standard |
| Ba      | 135  | <b>37.630</b>  | ug/L  | 0.782    | 2         | 37            | 122705        | 1           | Standard |
| Ba      | 137  | <b>37.654</b>  | ug/L  | 0.424    | 1         | 46            | 217929        | 0           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 689429        | 1           | Standard |
| Pb      | 208  | <b>15.142</b>  | ug/L  | 0.097    | 0         | 200           | 646815        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0180-04**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 21:10:51**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 59622         | 1           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4190939       | 3           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 630148        | 0           | Standard |
| Cr      | 52   | <b>15.629</b>  | ug/L  | 0.101    | 0         | 17159         | 342826        | 0           | Standard |
| Cr      | 53   | <b>15.771</b>  | ug/L  | 0.361    | 2         | 216           | 37870         | 1           | Standard |
| Mn      | 55   | <b>139.142</b> | ug/L  | 2.372    | 1         | 1132          | 4040061       | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 27748         | 1           | KED      |
| Ni      | 60   | <b>14.094</b>  | ug/L  | 0.096    | 0         | 138           | 14984         | 1           | KED      |
| Ni      | 62   | <b>14.415</b>  | ug/L  | 0.137    | 0         | 33            | 2508          | 0           | KED      |
| Cu      | 63   | <b>31.356</b>  | ug/L  | 0.142    | 0         | 80            | 96431         | 0           | KED      |
| Cu      | 65   | <b>32.684</b>  | ug/L  | 0.727    | 2         | 24            | 49621         | 2           | KED      |
| Zn      | 66   | <b>63.141</b>  | ug/L  | 1.005    | 1         | 43            | 24613         | 2           | KED      |
| Zn      | 67   | <b>59.045</b>  | ug/L  | 0.744    | 1         | 3             | 3827          | 2           | KED      |
| As      | 75   | <b>5.417</b>   | ug/L  | 0.124    | 2         | 16            | 1113          | 3           | KED      |
| Se      | 78   | <b>1.043</b>   | ug/L  | 0.255    | 24        | 19            | 42            | 13          | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 548225        | 1           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 125           | 4           | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7577          | 1           | KED      |
| Cd      | 111  | <b>0.228</b>   | ug/L  | 0.049    | 21        | 4             | 54            | 21          | KED      |
| Cd      | 114  | <b>0.234</b>   | ug/L  | 0.011    | 4         | 2             | 131           | 6           | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 384812        | 2           | Standard |
| Ag      | 107  | <b>0.180</b>   | ug/L  | 0.004    | 1         | 89            | 2394          | 2           | Standard |
| Ba      | 135  | <b>46.541</b>  | ug/L  | 1.081    | 2         | 37            | 149693        | 0           | Standard |
| Ba      | 137  | <b>46.592</b>  | ug/L  | 1.450    | 3         | 46            | 265929        | 0           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 697762        | 1           | Standard |
| Pb      | 208  | <b>18.594</b>  | ug/L  | 0.203    | 1         | 200           | 803812        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-03**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 21:15:35**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 53084         | 0           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4169023       | 1           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 603980        | 1           | Standard |
| Cr      | 52   | <b>13.866</b>  | ug/L  | 0.305    | 2         | 17159         | 293589        | 0           | Standard |
| Cr      | 53   | <b>14.073</b>  | ug/L  | 0.235    | 1         | 216           | 32412         | 0           | Standard |
| Mn      | 55   | <b>169.138</b> | ug/L  | 3.378    | 1         | 1132          | 4706223       | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 28148         | 0           | KED      |
| Ni      | 60   | <b>11.904</b>  | ug/L  | 0.025    | 0         | 138           | 12858         | 0           | KED      |
| Ni      | 62   | <b>12.291</b>  | ug/L  | 0.347    | 2         | 33            | 2174          | 3           | KED      |
| Cu      | 63   | <b>29.623</b>  | ug/L  | 0.752    | 2         | 80            | 92407         | 1           | KED      |
| Cu      | 65   | <b>29.789</b>  | ug/L  | 0.290    | 0         | 24            | 45880         | 1           | KED      |
| Zn      | 66   | <b>58.036</b>  | ug/L  | 0.896    | 1         | 43            | 22948         | 0           | KED      |
| Zn      | 67   | <b>54.759</b>  | ug/L  | 1.867    | 3         | 3             | 3600          | 3           | KED      |
| As      | 75   | <b>6.444</b>   | ug/L  | 0.151    | 2         | 16            | 1340          | 1           | KED      |
| Se      | 78   | <b>0.933</b>   | ug/L  | 0.136    | 14        | 19            | 40            | 8           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 498878        | 1           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 105           | 26          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7533          | 0           | KED      |
| Cd      | 111  | <b>0.186</b>   | ug/L  | 0.025    | 13        | 4             | 45            | 12          | KED      |
| Cd      | 114  | <b>0.187</b>   | ug/L  | 0.017    | 9         | 2             | 104           | 9           | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 385942        | 0           | Standard |
| Ag      | 107  | <b>0.133</b>   | ug/L  | 0.009    | 6         | 89            | 1800          | 6           | Standard |
| Ba      | 135  | <b>36.617</b>  | ug/L  | 0.514    | 1         | 37            | 118165        | 1           | Standard |
| Ba      | 137  | <b>36.298</b>  | ug/L  | 0.517    | 1         | 46            | 207888        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 690623        | 0           | Standard |
| Pb      | 208  | <b>14.103</b>  | ug/L  | 0.204    | 1         | 200           | 603451        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-04**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 21:20:19**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 50485         | 2           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4104982       | 1           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 580162        | 0           | Standard |
| Cr      | 52   | <b>12.588</b>  | ug/L  | 0.047    | 0         | 17159         | 257762        | 0           | Standard |
| Cr      | 53   | <b>12.932</b>  | ug/L  | 0.280    | 2         | 216           | 28630         | 1           | Standard |
| Mn      | 55   | <b>144.733</b> | ug/L  | 1.939    | 1         | 1132          | 3869191       | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 28094         | 1           | KED      |
| Ni      | 60   | <b>10.106</b>  | ug/L  | 0.105    | 1         | 138           | 10914         | 1           | KED      |
| Ni      | 62   | <b>10.384</b>  | ug/L  | 0.537    | 5         | 33            | 1837          | 4           | KED      |
| Cu      | 63   | <b>25.272</b>  | ug/L  | 0.474    | 1         | 80            | 78689         | 0           | KED      |
| Cu      | 65   | <b>25.830</b>  | ug/L  | 0.683    | 2         | 24            | 39700         | 2           | KED      |
| Zn      | 66   | <b>51.560</b>  | ug/L  | 1.758    | 3         | 43            | 20347         | 1           | KED      |
| Zn      | 67   | <b>50.190</b>  | ug/L  | 1.605    | 3         | 3             | 3293          | 1           | KED      |
| As      | 75   | <b>6.141</b>   | ug/L  | 0.142    | 2         | 16            | 1276          | 3           | KED      |
| Se      | 78   | <b>0.613</b>   | ug/L  | 0.199    | 32        | 19            | 32            | 14          | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 455672        | 1           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 85            | 3           | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7595          | 4           | KED      |
| Cd      | 111  | <b>0.166</b>   | ug/L  | 0.022    | 13        | 4             | 40            | 8           | KED      |
| Cd      | 114  | <b>0.172</b>   | ug/L  | 0.010    | 5         | 2             | 97            | 8           | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 388494        | 1           | Standard |
| Ag      | 107  | <b>0.108</b>   | ug/L  | 0.004    | 3         | 89            | 1484          | 1           | Standard |
| Ba      | 135  | <b>31.878</b>  | ug/L  | 0.415    | 1         | 37            | 103549        | 1           | Standard |
| Ba      | 137  | <b>32.032</b>  | ug/L  | 1.146    | 3         | 46            | 184603        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 681438        | 0           | Standard |
| Pb      | 208  | <b>11.520</b>  | ug/L  | 0.123    | 1         | 200           | 486475        | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-05**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 21:25:03**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 52660         | 1           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4195273       | 1           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 591605        | 0           | Standard |
| Cr      | 52   | <b>14.262</b>  | ug/L  | 0.048    | 0         | 17159         | 295320        | 0           | Standard |
| Cr      | 53   | <b>14.694</b>  | ug/L  | 0.425    | 2         | 216           | 33142         | 2           | Standard |
| Mn      | 55   | <b>145.119</b> | ug/L  | 0.449    | 0         | 1132          | 3956036       | 0           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 27974         | 1           | KED      |
| Ni      | 60   | <b>11.805</b>  | ug/L  | 0.088    | 0         | 138           | 12672         | 1           | KED      |
| Ni      | 62   | <b>11.642</b>  | ug/L  | 0.278    | 2         | 33            | 2047          | 1           | KED      |
| Cu      | 63   | <b>28.150</b>  | ug/L  | 0.399    | 1         | 80            | 87283         | 2           | KED      |
| Cu      | 65   | <b>28.139</b>  | ug/L  | 0.363    | 1         | 24            | 43064         | 0           | KED      |
| Zn      | 66   | <b>56.923</b>  | ug/L  | 1.200    | 2         | 43            | 22367         | 0           | KED      |
| Zn      | 67   | <b>55.388</b>  | ug/L  | 2.742    | 4         | 3             | 3619          | 5           | KED      |
| As      | 75   | <b>4.991</b>   | ug/L  | 0.095    | 1         | 16            | 1035          | 0           | KED      |
| Se      | 78   | <b>0.831</b>   | ug/L  | 0.166    | 19        | 19            | 37            | 9           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 487769        | 0           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 107           | 11          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7540          | 3           | KED      |
| Cd      | 111  | <b>0.179</b>   | ug/L  | 0.035    | 19        | 4             | 43            | 14          | KED      |
| Cd      | 114  | <b>0.183</b>   | ug/L  | 0.028    | 15        | 2             | 102           | 14          | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 380188        | 0           | Standard |
| Ag      | 107  | <b>0.123</b>   | ug/L  | 0.001    | 0         | 89            | 1639          | 1           | Standard |
| Ba      | 135  | <b>35.402</b>  | ug/L  | 0.891    | 2         | 37            | 112528        | 1           | Standard |
| Ba      | 137  | <b>35.971</b>  | ug/L  | 0.609    | 1         | 46            | 202953        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 683695        | 0           | Standard |
| Pb      | 208  | <b>13.158</b>  | ug/L  | 0.052    | 0         | 200           | 557435        | 0           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 21:29:47

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 32204         | 4           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 3926310       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 462171        | 1           | Standard |
| Cr      | 52   | 0.007      | ug/L  | 0.015    | 227       | 17159         | 14620         | 1           | Standard |
| Cr      | 53   | -0.022     | ug/L  | 0.016    | 73        | 216           | 145           | 17          | Standard |
| Mn      | 55   | 0.028      | ug/L  | 0.054    | 197       | 1132          | 1533          | 73          | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 26794         | 1           | KED      |
| Ni      | 60   | -0.100     | ug/L  | 0.004    | 3         | 138           | 22            | 16          | KED      |
| Ni      | 62   | -0.129     | ug/L  | 0.017    | 12        | 33            | 8             | 32          | KED      |
| Cu      | 63   | 0.032      | ug/L  | 0.003    | 10        | 80            | 167           | 7           | KED      |
| Cu      | 65   | 0.039      | ug/L  | 0.011    | 28        | 24            | 79            | 20          | KED      |
| Zn      | 66   | -0.005     | ug/L  | 0.027    | 485       | 43            | 36            | 28          | KED      |
| Zn      | 67   | 0.098      | ug/L  | 0.133    | 135       | 3             | 9             | 87          | KED      |
| As      | 75   | -0.053     | ug/L  | 0.006    | 11        | 16            | 4             | 29          | KED      |
| Se      | 78   | -0.022     | ug/L  | 0.116    | 527       | 19            | 17            | 12          | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 260647        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 43            | 24          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 7455          | 3           | KED      |
| Cd      | 111  | -0.001     | ug/L  | 0.003    | 257       | 4             | 3             | 15          | KED      |
| Cd      | 114  | 0.004      | ug/L  | 0.005    | 134       | 2             | 4             | 68          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 367962        | 2           | Standard |
| Ag      | 107  | -0.004     | ug/L  | 0.001    | 33        | 89            | 31            | 49          | Standard |
| Ba      | 135  | 0.010      | ug/L  | 0.010    | 101       | 37            | 64            | 48          | Standard |
| Ba      | 137  | 0.013      | ug/L  | 0.010    | 77        | 46            | 114           | 48          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 638939        | 2           | Standard |
| Pb      | 208  | 0.002      | ug/L  | 0.003    | 184       | 200           | 248           | 51          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 21:34:32

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 30768         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4131544       | 2           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 479815        | 0           | Standard |
| Cr      | 52   | 51.397     | ug/L  | 1.316    | 2         | 17159         | 823911        | 2           | Standard |
| Cr      | 53   | 51.185     | ug/L  | 2.069    | 4         | 216           | 93151         | 3           | Standard |
| Mn      | 55   | 51.821     | ug/L  | 0.953    | 1         | 1132          | 1146303       | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 27164         | 1           | KED      |
| Ni      | 60   | 48.023     | ug/L  | 0.678    | 1         | 138           | 49670         | 1           | KED      |
| Ni      | 62   | 50.407     | ug/L  | 1.595    | 3         | 33            | 8508          | 2           | KED      |
| Cu      | 63   | 50.097     | ug/L  | 0.338    | 0         | 80            | 150774        | 1           | KED      |
| Cu      | 65   | 49.855     | ug/L  | 0.247    | 0         | 24            | 74080         | 1           | KED      |
| Zn      | 66   | 50.282     | ug/L  | 0.274    | 0         | 43            | 19193         | 1           | KED      |
| Zn      | 67   | 49.882     | ug/L  | 1.112    | 2         | 3             | 3166          | 3           | KED      |
| As      | 75   | 50.332     | ug/L  | 0.642    | 1         | 16            | 10002         | 0           | KED      |
| [ Se    | 78   | 48.664     | ug/L  | 0.430    | 0         | 19            | 1102          | 0           | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 278382        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 59            | 25          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 7519          | 1           | KED      |
| Cd      | 111  | 49.443     | ug/L  | 1.239    | 2         | 4             | 10982         | 2           | KED      |
| [ Cd    | 114  | 49.715     | ug/L  | 0.706    | 1         | 2             | 27169         | 2           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 379598        | 1           | Standard |
| Ag      | 107  | 50.018     | ug/L  | 0.786    | 1         | 89            | 632844        | 0           | Standard |
| Ba      | 135  | 51.091     | ug/L  | 0.850    | 1         | 37            | 162132        | 0           | Standard |
| [ Ba    | 137  | 51.302     | ug/L  | 0.939    | 1         | 46            | 288947        | 1           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 654285        | 0           | Standard |
| [ Pb    | 208  | 50.302     | ug/L  | 0.322    | 0         | 200           | 2038832       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 21:42:00

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 29643         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4169253       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 461275        | 1           | Standard |
| Cr      | 52   | -0.030     | ug/L  | 0.011    | 37        | 17159         | 14036         | 2           | Standard |
| Cr      | 53   | -0.028     | ug/L  | 0.013    | 45        | 216           | 133           | 18          | Standard |
| Mn      | 55   | -0.013     | ug/L  | 0.002    | 12        | 1132          | 685           | 3           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 26871         | 0           | KED      |
| Ni      | 60   | -0.100     | ug/L  | 0.003    | 3         | 138           | 22            | 14          | KED      |
| Ni      | 62   | -0.136     | ug/L  | 0.034    | 25        | 33            | 7             | 75          | KED      |
| Cu      | 63   | -0.005     | ug/L  | 0.007    | 136       | 80            | 56            | 39          | KED      |
| Cu      | 65   | 0.006      | ug/L  | 0.001    | 22        | 24            | 30            | 6           | KED      |
| Zn      | 66   | -0.029     | ug/L  | 0.020    | 69        | 43            | 27            | 27          | KED      |
| Zn      | 67   | -0.014     | ug/L  | 0.046    | 327       | 3             | 2             | 114         | KED      |
| As      | 75   | -0.046     | ug/L  | 0.007    | 15        | 16            | 5             | 25          | KED      |
| Se      | 78   | 0.060      | ug/L  | 0.039    | 65        | 19            | 19            | 4           | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 261492        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 38            | 17          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 7422          | 2           | KED      |
| Cd      | 111  | 0.009      | ug/L  | 0.012    | 130       | 4             | 5             | 44          | KED      |
| Cd      | 114  | -0.001     | ug/L  | 0.004    | 472       | 2             | 1             | 113         | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 371106        | 1           | Standard |
| Ag      | 107  | -0.002     | ug/L  | 0.001    | 70        | 89            | 57            | 28          | Standard |
| Ba      | 135  | -0.007     | ug/L  | 0.001    | 9         | 37            | 10            | 20          | Standard |
| Ba      | 137  | -0.001     | ug/L  | 0.001    | 94        | 46            | 36            | 13          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 640661        | 0           | Standard |
| Pb      | 208  | 0.000      | ug/L  | 0.000    | 244       | 200           | 182           | 5           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-06**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 21:46:45**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 50613         | 4           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4140118       | 1           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 581929        | 1           | Standard |
| Cr      | 52   | <b>13.643</b>  | ug/L  | 0.347    | 2         | 17159         | 278614        | 1           | Standard |
| Cr      | 53   | <b>14.109</b>  | ug/L  | 0.157    | 1         | 216           | 31309         | 1           | Standard |
| Mn      | 55   | <b>134.606</b> | ug/L  | 1.337    | 0         | 1132          | 3609409       | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 27821         | 2           | KED      |
| Ni      | 60   | <b>11.522</b>  | ug/L  | 0.008    | 0         | 138           | 12305         | 2           | KED      |
| Ni      | 62   | <b>11.537</b>  | ug/L  | 0.480    | 4         | 33            | 2018          | 3           | KED      |
| Cu      | 63   | <b>25.722</b>  | ug/L  | 0.325    | 1         | 80            | 79314         | 1           | KED      |
| Cu      | 65   | <b>25.845</b>  | ug/L  | 0.935    | 3         | 24            | 39325         | 1           | KED      |
| Zn      | 66   | <b>56.278</b>  | ug/L  | 1.328    | 2         | 43            | 21993         | 1           | KED      |
| Zn      | 67   | <b>53.054</b>  | ug/L  | 1.002    | 1         | 3             | 3447          | 1           | KED      |
| As      | 75   | <b>5.343</b>   | ug/L  | 0.136    | 2         | 16            | 1100          | 0           | KED      |
| Se      | 78   | <b>0.684</b>   | ug/L  | 0.242    | 35        | 19            | 34            | 16          | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 484054        | 1           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 81            | 15          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7569          | 3           | KED      |
| Cd      | 111  | <b>0.189</b>   | ug/L  | 0.023    | 12        | 4             | 46            | 11          | KED      |
| Cd      | 114  | <b>0.197</b>   | ug/L  | 0.008    | 4         | 2             | 110           | 1           | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 388096        | 1           | Standard |
| Ag      | 107  | <b>0.149</b>   | ug/L  | 0.007    | 4         | 89            | 2005          | 5           | Standard |
| Ba      | 135  | <b>40.083</b>  | ug/L  | 0.703    | 1         | 37            | 130048        | 0           | Standard |
| Ba      | 137  | <b>40.183</b>  | ug/L  | 0.343    | 0         | 46            | 231437        | 2           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 682294        | 1           | Standard |
| Pb      | 208  | <b>13.908</b>  | ug/L  | 0.077    | 0         | 200           | 587971        | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-07**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 21:51:29**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 51757         | 1           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4178315       | 1           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 582435        | 0           | Standard |
| Cr      | 52   | <b>12.490</b>  | ug/L  | 0.167    | 1         | 17159         | 256881        | 0           | Standard |
| Cr      | 53   | <b>12.473</b>  | ug/L  | 0.199    | 1         | 216           | 27733         | 2           | Standard |
| Mn      | 55   | <b>126.322</b> | ug/L  | 0.232    | 0         | 1132          | 3390381       | 0           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 27715         | 1           | KED      |
| Ni      | 60   | <b>11.054</b>  | ug/L  | 0.390    | 3         | 138           | 11762         | 2           | KED      |
| Ni      | 62   | <b>11.515</b>  | ug/L  | 0.650    | 5         | 33            | 2007          | 5           | KED      |
| Cu      | 63   | <b>24.803</b>  | ug/L  | 0.345    | 1         | 80            | 76196         | 1           | KED      |
| Cu      | 65   | <b>25.357</b>  | ug/L  | 1.008    | 3         | 24            | 38442         | 2           | KED      |
| Zn      | 66   | <b>54.435</b>  | ug/L  | 1.906    | 3         | 43            | 21195         | 3           | KED      |
| Zn      | 67   | <b>52.856</b>  | ug/L  | 1.204    | 2         | 3             | 3421          | 2           | KED      |
| As      | 75   | <b>5.380</b>   | ug/L  | 0.098    | 1         | 16            | 1104          | 2           | KED      |
| Se      | 78   | <b>0.906</b>   | ug/L  | 0.223    | 24        | 19            | 39            | 13          | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 472695        | 2           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 100           | 14          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7558          | 4           | KED      |
| Cd      | 111  | <b>0.145</b>   | ug/L  | 0.031    | 21        | 4             | 36            | 19          | KED      |
| Cd      | 114  | <b>0.182</b>   | ug/L  | 0.038    | 21        | 2             | 101           | 16          | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 386116        | 0           | Standard |
| Ag      | 107  | <b>0.098</b>   | ug/L  | 0.003    | 2         | 89            | 1341          | 2           | Standard |
| Ba      | 135  | <b>32.679</b>  | ug/L  | 0.142    | 0         | 37            | 105512        | 0           | Standard |
| Ba      | 137  | <b>32.302</b>  | ug/L  | 0.059    | 0         | 46            | 185097        | 0           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 673278        | 0           | Standard |
| Pb      | 208  | <b>11.162</b>  | ug/L  | 0.118    | 1         | 200           | 465672        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-08**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 21:56:13**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 52531         | 2           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4079125       | 2           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 585674        | 2           | Standard |
| Cr      | 52   | <b>12.979</b>  | ug/L  | 0.109    | 0         | 17159         | 267714        | 2           | Standard |
| Cr      | 53   | <b>13.196</b>  | ug/L  | 0.247    | 1         | 216           | 29482         | 0           | Standard |
| Mn      | 55   | <b>144.680</b> | ug/L  | 1.008    | 0         | 1132          | 3904647       | 2           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 28278         | 2           | KED      |
| Ni      | 60   | <b>11.266</b>  | ug/L  | 0.319    | 2         | 138           | 12232         | 3           | KED      |
| Ni      | 62   | <b>11.498</b>  | ug/L  | 0.056    | 0         | 33            | 2045          | 1           | KED      |
| Cu      | 63   | <b>25.678</b>  | ug/L  | 0.194    | 0         | 80            | 80497         | 2           | KED      |
| Cu      | 65   | <b>25.028</b>  | ug/L  | 0.409    | 1         | 24            | 38723         | 1           | KED      |
| Zn      | 66   | <b>50.819</b>  | ug/L  | 0.930    | 1         | 43            | 20190         | 1           | KED      |
| Zn      | 67   | <b>50.125</b>  | ug/L  | 2.596    | 5         | 3             | 3310          | 5           | KED      |
| As      | 75   | <b>6.878</b>   | ug/L  | 0.237    | 3         | 16            | 1435          | 1           | KED      |
| Se      | 78   | <b>0.642</b>   | ug/L  | 0.254    | 39        | 19            | 33            | 19          | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 479081        | 3           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 111           | 3           | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7478          | 1           | KED      |
| Cd      | 111  | <b>0.181</b>   | ug/L  | 0.010    | 5         | 4             | 43            | 5           | KED      |
| Cd      | 114  | <b>0.183</b>   | ug/L  | 0.024    | 12        | 2             | 101           | 10          | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 383349        | 3           | Standard |
| Ag      | 107  | <b>0.107</b>   | ug/L  | 0.005    | 4         | 89            | 1452          | 4           | Standard |
| Ba      | 135  | <b>38.100</b>  | ug/L  | 1.025    | 2         | 37            | 122049        | 1           | Standard |
| Ba      | 137  | <b>38.066</b>  | ug/L  | 0.779    | 2         | 46            | 216458        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 683899        | 1           | Standard |
| Pb      | 208  | <b>11.429</b>  | ug/L  | 0.138    | 1         | 200           | 484313        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-09**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 22:00:57**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 54790         | 1           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4140430       | 1           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 587218        | 1           | Standard |
| Cr      | 52   | <b>13.057</b>  | ug/L  | 0.116    | 0         | 17159         | 269905        | 0           | Standard |
| Cr      | 53   | <b>13.130</b>  | ug/L  | 0.288    | 2         | 216           | 29414         | 0           | Standard |
| Mn      | 55   | <b>143.752</b> | ug/L  | 1.521    | 1         | 1132          | 3889342       | 0           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 27622         | 2           | KED      |
| Ni      | 60   | <b>10.870</b>  | ug/L  | 0.570    | 5         | 138           | 11527         | 4           | KED      |
| Ni      | 62   | <b>11.035</b>  | ug/L  | 0.061    | 0         | 33            | 1918          | 2           | KED      |
| Cu      | 63   | <b>29.396</b>  | ug/L  | 0.492    | 1         | 80            | 89978         | 0           | KED      |
| Cu      | 65   | <b>29.916</b>  | ug/L  | 0.768    | 2         | 24            | 45204         | 2           | KED      |
| Zn      | 66   | <b>53.188</b>  | ug/L  | 0.793    | 1         | 43            | 20639         | 0           | KED      |
| Zn      | 67   | <b>49.966</b>  | ug/L  | 0.971    | 1         | 3             | 3224          | 3           | KED      |
| As      | 75   | <b>8.612</b>   | ug/L  | 0.225    | 2         | 16            | 1752          | 0           | KED      |
| Se      | 78   | <b>0.806</b>   | ug/L  | 0.198    | 24        | 19            | 36            | 12          | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 467445        | 2           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 94            | 5           | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7504          | 2           | KED      |
| Cd      | 111  | <b>0.191</b>   | ug/L  | 0.033    | 17        | 4             | 46            | 13          | KED      |
| Cd      | 114  | <b>0.193</b>   | ug/L  | 0.012    | 6         | 2             | 107           | 8           | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 377485        | 3           | Standard |
| Ag      | 107  | <b>0.135</b>   | ug/L  | 0.004    | 2         | 89            | 1774          | 1           | Standard |
| Ba      | 135  | <b>36.978</b>  | ug/L  | 1.258    | 3         | 37            | 116636        | 0           | Standard |
| Ba      | 137  | <b>36.958</b>  | ug/L  | 0.743    | 2         | 46            | 206951        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 682791        | 1           | Standard |
| Pb      | 208  | <b>13.700</b>  | ug/L  | 0.261    | 1         | 200           | 579570        | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-10**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 22:05:41**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 56839         | 1           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4120071       | 0           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 596905        | 1           | Standard |
| Cr      | 52   | <b>13.537</b>  | ug/L  | 0.181    | 1         | 17159         | 283761        | 1           | Standard |
| Cr      | 53   | <b>13.947</b>  | ug/L  | 0.258    | 1         | 216           | 31757         | 3           | Standard |
| Mn      | 55   | <b>149.657</b> | ug/L  | 2.524    | 1         | 1132          | 4115458       | 0           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 27477         | 1           | KED      |
| Ni      | 60   | <b>11.483</b>  | ug/L  | 0.214    | 1         | 138           | 12113         | 3           | KED      |
| Ni      | 62   | <b>11.657</b>  | ug/L  | 0.142    | 1         | 33            | 2014          | 0           | KED      |
| Cu      | 63   | <b>32.306</b>  | ug/L  | 0.933    | 2         | 80            | 98356         | 1           | KED      |
| Cu      | 65   | <b>32.671</b>  | ug/L  | 0.870    | 2         | 24            | 49103         | 1           | KED      |
| Zn      | 66   | <b>531.960</b> | ug/L  | 11.814   | 2         | 43            | 205023        | 2           | KED      |
| Zn      | 67   | <b>486.862</b> | ug/L  | 15.381   | 3         | 3             | 31213         | 1           | KED      |
| As      | 75   | <b>8.407</b>   | ug/L  | 0.116    | 1         | 16            | 1702          | 0           | KED      |
| Se      | 78   | <b>0.785</b>   | ug/L  | 0.149    | 19        | 19            | 36            | 8           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 482629        | 1           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 126           | 13          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7520          | 2           | KED      |
| Cd      | 111  | <b>0.205</b>   | ug/L  | 0.024    | 11        | 4             | 49            | 9           | KED      |
| Cd      | 114  | <b>0.202</b>   | ug/L  | 0.015    | 7         | 2             | 112           | 6           | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 385952        | 1           | Standard |
| Ag      | 107  | <b>0.150</b>   | ug/L  | 0.001    | 0         | 89            | 2014          | 1           | Standard |
| Ba      | 135  | <b>39.918</b>  | ug/L  | 0.221    | 0         | 37            | 128818        | 0           | Standard |
| Ba      | 137  | <b>39.120</b>  | ug/L  | 0.879    | 2         | 46            | 224032        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 684091        | 0           | Standard |
| Pb      | 208  | <b>14.469</b>  | ug/L  | 0.101    | 0         | 200           | 613292        | 0           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-11**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 22:10:25**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 53359         | 3           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4092819       | 1           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 589551        | 0           | Standard |
| Cr      | 52   | <b>12.063</b>  | ug/L  | 0.260    | 2         | 17159         | 251741        | 1           | Standard |
| Cr      | 53   | <b>12.255</b>  | ug/L  | 0.174    | 1         | 216           | 27585         | 2           | Standard |
| Mn      | 55   | <b>138.831</b> | ug/L  | 1.400    | 1         | 1132          | 3771306       | 0           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 27806         | 1           | KED      |
| Ni      | 60   | <b>9.818</b>   | ug/L  | 0.155    | 1         | 138           | 10498         | 2           | KED      |
| Ni      | 62   | <b>10.153</b>  | ug/L  | 0.435    | 4         | 33            | 1779          | 4           | KED      |
| Cu      | 63   | <b>27.344</b>  | ug/L  | 0.335    | 1         | 80            | 84274         | 1           | KED      |
| Cu      | 65   | <b>27.790</b>  | ug/L  | 0.865    | 3         | 24            | 42273         | 2           | KED      |
| Zn      | 66   | <b>48.586</b>  | ug/L  | 0.550    | 1         | 43            | 18988         | 2           | KED      |
| Zn      | 67   | <b>46.824</b>  | ug/L  | 0.947    | 2         | 3             | 3041          | 1           | KED      |
| As      | 75   | <b>7.829</b>   | ug/L  | 0.079    | 1         | 16            | 1605          | 1           | KED      |
| Se      | 78   | <b>0.461</b>   | ug/L  | 0.056    | 12        | 19            | 29            | 4           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 459086        | 1           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 85            | 15          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7443          | 4           | KED      |
| Cd      | 111  | <b>0.170</b>   | ug/L  | 0.014    | 8         | 4             | 41            | 11          | KED      |
| Cd      | 114  | <b>0.158</b>   | ug/L  | 0.013    | 8         | 2             | 87            | 4           | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 379895        | 1           | Standard |
| Ag      | 107  | <b>0.132</b>   | ug/L  | 0.006    | 4         | 89            | 1747          | 3           | Standard |
| Ba      | 135  | <b>32.121</b>  | ug/L  | 0.663    | 2         | 37            | 102025        | 1           | Standard |
| Ba      | 137  | <b>32.158</b>  | ug/L  | 0.521    | 1         | 46            | 181286        | 0           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 681758        | 0           | Standard |
| Pb      | 208  | <b>13.411</b>  | ug/L  | 0.262    | 1         | 200           | 566513        | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-12**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 22:15:09**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 52996         | 1           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4135770       | 2           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 593850        | 1           | Standard |
| Cr      | 52   | <b>13.192</b>  | ug/L  | 0.254    | 1         | 17159         | 275562        | 0           | Standard |
| Cr      | 53   | <b>13.599</b>  | ug/L  | 0.266    | 1         | 216           | 30809         | 3           | Standard |
| Mn      | 55   | <b>144.803</b> | ug/L  | 2.276    | 1         | 1132          | 3961726       | 0           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 27276         | 1           | KED      |
| Ni      | 60   | <b>11.697</b>  | ug/L  | 0.458    | 3         | 138           | 12239         | 2           | KED      |
| Ni      | 62   | <b>11.595</b>  | ug/L  | 0.773    | 6         | 33            | 1988          | 5           | KED      |
| Cu      | 63   | <b>30.353</b>  | ug/L  | 0.347    | 1         | 80            | 91754         | 1           | KED      |
| Cu      | 65   | <b>30.072</b>  | ug/L  | 0.729    | 2         | 24            | 44864         | 0           | KED      |
| Zn      | 66   | <b>59.116</b>  | ug/L  | 0.843    | 1         | 43            | 22656         | 3           | KED      |
| Zn      | 67   | <b>59.030</b>  | ug/L  | 0.413    | 0         | 3             | 3760          | 1           | KED      |
| As      | 75   | <b>5.828</b>   | ug/L  | 0.166    | 2         | 16            | 1175          | 0           | KED      |
| Se      | 78   | <b>0.882</b>   | ug/L  | 0.082    | 9         | 19            | 37            | 3           | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 472610        | 0           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 107           | 15          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7664          | 1           | KED      |
| Cd      | 111  | <b>0.205</b>   | ug/L  | 0.040    | 19        | 4             | 50            | 17          | KED      |
| Cd      | 114  | <b>0.170</b>   | ug/L  | 0.047    | 28        | 2             | 96            | 26          | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 379633        | 2           | Standard |
| Ag      | 107  | <b>0.132</b>   | ug/L  | 0.007    | 5         | 89            | 1748          | 3           | Standard |
| Ba      | 135  | <b>36.296</b>  | ug/L  | 1.029    | 2         | 37            | 115158        | 0           | Standard |
| Ba      | 137  | <b>36.642</b>  | ug/L  | 1.345    | 3         | 46            | 206308        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 677035        | 0           | Standard |
| Pb      | 208  | <b>13.580</b>  | ug/L  | 0.085    | 0         | 200           | 569692        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-13**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 22:19:53**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 50799         | 1           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4123661       | 2           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 577486        | 1           | Standard |
| Cr      | 52   | <b>24.826</b>  | ug/L  | 0.819    | 3         | 17159         | 488203        | 1           | Standard |
| Cr      | 53   | <b>24.855</b>  | ug/L  | 0.300    | 1         | 216           | 54561         | 1           | Standard |
| Mn      | 55   | <b>122.399</b> | ug/L  | 4.208    | 3         | 1132          | 3256012       | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 27603         | 2           | KED      |
| Ni      | 60   | <b>16.614</b>  | ug/L  | 0.464    | 2         | 138           | 17538         | 0           | KED      |
| Ni      | 62   | <b>17.293</b>  | ug/L  | 0.921    | 5         | 33            | 2985          | 4           | KED      |
| Cu      | 63   | <b>43.858</b>  | ug/L  | 0.764    | 1         | 80            | 134132        | 2           | KED      |
| Cu      | 65   | <b>44.393</b>  | ug/L  | 0.588    | 1         | 24            | 67021         | 1           | KED      |
| Zn      | 66   | <b>95.540</b>  | ug/L  | 2.276    | 2         | 43            | 37010         | 1           | KED      |
| Zn      | 67   | <b>88.821</b>  | ug/L  | 1.188    | 1         | 3             | 5724          | 3           | KED      |
| As      | 75   | <b>6.205</b>   | ug/L  | 0.145    | 2         | 16            | 1265          | 1           | KED      |
| Se      | 78   | <b>0.772</b>   | ug/L  | 0.132    | 17        | 19            | 36            | 10          | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 443001        | 1           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 93            | 13          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7577          | 4           | KED      |
| Cd      | 111  | <b>0.966</b>   | ug/L  | 0.105    | 10        | 4             | 219           | 6           | KED      |
| Cd      | 114  | <b>1.004</b>   | ug/L  | 0.107    | 10        | 2             | 553           | 7           | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 384133        | 1           | Standard |
| Ag      | 107  | <b>0.918</b>   | ug/L  | 0.031    | 3         | 89            | 11834         | 2           | Standard |
| Ba      | 135  | <b>36.225</b>  | ug/L  | 0.954    | 2         | 37            | 116326        | 1           | Standard |
| Ba      | 137  | <b>36.058</b>  | ug/L  | 0.547    | 1         | 46            | 205527        | 0           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 676577        | 1           | Standard |
| Pb      | 208  | <b>62.354</b>  | ug/L  | 1.086    | 1         | 200           | 2613215       | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-14**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 22:24:37**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 30728         | 52626         | 3           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4438068       | 4149776       | 1           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 546109        | 584004        | 0           | Standard |
| Cr      | 52   | <b>14.801</b>  | ug/L  | 0.318    | 2         | 17159         | 301819        | 1           | Standard |
| Cr      | 53   | <b>15.036</b>  | ug/L  | 0.097    | 0         | 216           | 33471         | 0           | Standard |
| Mn      | 55   | <b>132.304</b> | ug/L  | 0.329    | 0         | 1132          | 3560441       | 0           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 29835         | 27314         | 1           | KED      |
| Ni      | 60   | <b>12.239</b>  | ug/L  | 0.067    | 0         | 138           | 12824         | 0           | KED      |
| Ni      | 62   | <b>12.342</b>  | ug/L  | 0.751    | 6         | 33            | 2117          | 5           | KED      |
| Cu      | 63   | <b>35.854</b>  | ug/L  | 0.910    | 2         | 80            | 108509        | 1           | KED      |
| Cu      | 65   | <b>35.764</b>  | ug/L  | 0.184    | 0         | 24            | 53443         | 1           | KED      |
| Zn      | 66   | <b>76.060</b>  | ug/L  | 3.172    | 4         | 43            | 29166         | 3           | KED      |
| Zn      | 67   | <b>72.522</b>  | ug/L  | 3.856    | 5         | 3             | 4624          | 4           | KED      |
| As      | 75   | <b>6.295</b>   | ug/L  | 0.276    | 4         | 16            | 1270          | 3           | KED      |
| Se      | 78   | <b>0.944</b>   | ug/L  | 0.186    | 19        | 19            | 39            | 10          | KED      |
| Y       | 89   |                | ug/L  |          |           | 297640        | 468237        | 0           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 48            | 90            | 6           | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 8217          | 7609          | 1           | KED      |
| Cd      | 111  | <b>0.281</b>   | ug/L  | 0.017    | 6         | 4             | 66            | 7           | KED      |
| Cd      | 114  | <b>0.296</b>   | ug/L  | 0.019    | 6         | 2             | 166           | 5           | KED      |
| > In    | 115  |                | ug/L  |          |           | 413136        | 381811        | 2           | Standard |
| Ag      | 107  | <b>0.211</b>   | ug/L  | 0.003    | 1         | 89            | 2771          | 1           | Standard |
| Ba      | 135  | <b>36.629</b>  | ug/L  | 0.415    | 1         | 37            | 116923        | 1           | Standard |
| Ba      | 137  | <b>36.597</b>  | ug/L  | 0.656    | 1         | 46            | 207326        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 720127        | 682515        | 0           | Standard |
| Pb      | 208  | <b>16.066</b>  | ug/L  | 0.212    | 1         | 200           | 679391        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 22:29:22

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 31202         | 3           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4018551       | 2           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 451755        | 1           | Standard |
| Cr      | 52   | -0.004     | ug/L  | 0.005    | 126       | 17159         | 14141         | 1           | Standard |
| Cr      | 53   | -0.031     | ug/L  | 0.008    | 26        | 216           | 126           | 10          | Standard |
| Mn      | 55   | -0.006     | ug/L  | 0.001    | 22        | 1132          | 802           | 4           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 26981         | 2           | KED      |
| Ni      | 60   | -0.102     | ug/L  | 0.005    | 4         | 138           | 20            | 24          | KED      |
| Ni      | 62   | -0.160     | ug/L  | 0.019    | 12        | 33            | 3             | 86          | KED      |
| Cu      | 63   | 0.030      | ug/L  | 0.005    | 15        | 80            | 162           | 7           | KED      |
| Cu      | 65   | 0.037      | ug/L  | 0.005    | 12        | 24            | 76            | 6           | KED      |
| Zn      | 66   | 0.006      | ug/L  | 0.017    | 312       | 43            | 41            | 18          | KED      |
| Zn      | 67   | 0.036      | ug/L  | 0.002    | 6         | 3             | 5             | 0           | KED      |
| As      | 75   | -0.041     | ug/L  | 0.004    | 10        | 16            | 6             | 14          | KED      |
| [ Se    | 78   | -0.035     | ug/L  | 0.061    | 171       | 19            | 17            | 8           | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 255123        | 4           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 45            | 27          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 7281          | 2           | KED      |
| Cd      | 111  | -0.005     | ug/L  | 0.007    | 123       | 4             | 2             | 57          | KED      |
| Cd      | 114  | 0.008      | ug/L  | 0.008    | 98        | 2             | 6             | 64          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 363887        | 3           | Standard |
| Ag      | 107  | -0.003     | ug/L  | 0.000    | 7         | 89            | 45            | 4           | Standard |
| Ba      | 135  | 0.004      | ug/L  | 0.004    | 95        | 37            | 46            | 24          | Standard |
| [ Ba    | 137  | 0.006      | ug/L  | 0.002    | 26        | 46            | 71            | 7           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 619191        | 1           | Standard |
| [ Pb    | 208  | -0.001     | ug/L  | 0.000    | 26        | 200           | 137           | 6           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 22:34:06

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 30483         | 0           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4227808       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 480127        | 0           | Standard |
| Cr      | 52   | 50.256     | ug/L  | 0.148    | 0         | 17159         | 806485        | 0           | Standard |
| Cr      | 53   | 51.647     | ug/L  | 0.846    | 1         | 216           | 94056         | 1           | Standard |
| Mn      | 55   | 51.670     | ug/L  | 0.693    | 1         | 1132          | 1143726       | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 25944         | 4           | KED      |
| Ni      | 60   | 50.056     | ug/L  | 0.884    | 1         | 138           | 49427         | 2           | KED      |
| Ni      | 62   | 51.454     | ug/L  | 2.255    | 4         | 33            | 8290          | 4           | KED      |
| Cu      | 63   | 50.836     | ug/L  | 2.047    | 4         | 80            | 145993        | 2           | KED      |
| Cu      | 65   | 51.641     | ug/L  | 2.283    | 4         | 24            | 73201         | 0           | KED      |
| Zn      | 66   | 51.537     | ug/L  | 1.259    | 2         | 43            | 18777         | 2           | KED      |
| Zn      | 67   | 51.972     | ug/L  | 1.982    | 3         | 3             | 3147          | 2           | KED      |
| As      | 75   | 51.244     | ug/L  | 1.318    | 2         | 16            | 9720          | 1           | KED      |
| [ Se    | 78   | 51.590     | ug/L  | 1.759    | 3         | 19            | 1114          | 2           | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 275051        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 52            | 20          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 7399          | 2           | KED      |
| Cd      | 111  | 50.053     | ug/L  | 0.787    | 1         | 4             | 10939         | 0           | KED      |
| Cd      | 114  | 49.643     | ug/L  | 0.342    | 0         | 2             | 26693         | 1           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 380920        | 0           | Standard |
| Ag      | 107  | 50.412     | ug/L  | 1.396    | 2         | 89            | 640090        | 2           | Standard |
| Ba      | 135  | 50.934     | ug/L  | 0.601    | 1         | 37            | 162226        | 1           | Standard |
| [ Ba    | 137  | 50.699     | ug/L  | 1.406    | 2         | 46            | 286569        | 2           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 660923        | 1           | Standard |
| [ Pb    | 208  | 49.923     | ug/L  | 0.086    | 0         | 200           | 2044029       | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 22:41:35

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 30613         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4130691       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 470123        | 0           | Standard |
| Cr      | 52   | 0.001      | ug/L  | 0.017    | 1718      | 17159         | 14786         | 1           | Standard |
| Cr      | 53   | -0.024     | ug/L  | 0.008    | 34        | 216           | 143           | 10          | Standard |
| Mn      | 55   | -0.013     | ug/L  | 0.002    | 15        | 1132          | 686           | 5           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 26336         | 3           | KED      |
| Ni      | 60   | -0.104     | ug/L  | 0.005    | 5         | 138           | 18            | 26          | KED      |
| Ni      | 62   | -0.135     | ug/L  | 0.032    | 23        | 33            | 7             | 66          | KED      |
| Cu      | 63   | -0.010     | ug/L  | 0.002    | 21        | 80            | 42            | 10          | KED      |
| Cu      | 65   | -0.001     | ug/L  | 0.005    | 471       | 24            | 20            | 35          | KED      |
| Zn      | 66   | -0.033     | ug/L  | 0.013    | 39        | 43            | 26            | 22          | KED      |
| Zn      | 67   | 0.027      | ug/L  | 0.045    | 166       | 3             | 5             | 57          | KED      |
| As      | 75   | -0.047     | ug/L  | 0.004    | 9         | 16            | 5             | 18          | KED      |
| Se      | 78   | 0.012      | ug/L  | 0.085    | 697       | 19            | 17            | 12          | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 259006        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 52            | 15          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 7229          | 4           | KED      |
| Cd      | 111  | 0.007      | ug/L  | 0.006    | 86        | 4             | 5             | 21          | KED      |
| Cd      | 114  | 0.004      | ug/L  | 0.004    | 99        | 2             | 4             | 50          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 368706        | 2           | Standard |
| Ag      | 107  | -0.002     | ug/L  | 0.001    | 37        | 89            | 53            | 15          | Standard |
| Ba      | 135  | -0.004     | ug/L  | 0.003    | 89        | 37            | 21            | 48          | Standard |
| Ba      | 137  | -0.002     | ug/L  | 0.001    | 50        | 46            | 31            | 18          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 626670        | 2           | Standard |
| Pb      | 208  | 0.000      | ug/L  | 0.001    | 140       | 200           | 191           | 15          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0158-05**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, April 07, 2023 22:46:19**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30728         | 42770         | 1           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4438068       | 4065756       | 1           | Standard |
| [> Sc   | 45   |               | ug/L  |          |           | 546109        | 513651        | 2           | Standard |
| Cr      | 52   | <b>5.893</b>  | ug/L  | 0.113    | 1         | 17159         | 115398        | 0           | Standard |
| Cr      | 53   | <b>5.971</b>  | ug/L  | 0.112    | 1         | 216           | 11811         | 0           | Standard |
| Mn      | 55   | <b>66.790</b> | ug/L  | 0.353    | 0         | 1132          | 1581487       | 2           | Standard |
| [> Ge   | 72   |               | ug/L  |          |           | 29835         | 27736         | 1           | KED      |
| Ni      | 60   | <b>4.628</b>  | ug/L  | 0.127    | 2         | 138           | 5004          | 1           | KED      |
| Ni      | 62   | <b>4.502</b>  | ug/L  | 0.066    | 1         | 33            | 804           | 0           | KED      |
| Cu      | 63   | <b>11.056</b> | ug/L  | 0.356    | 3         | 80            | 34033         | 3           | KED      |
| Cu      | 65   | <b>11.212</b> | ug/L  | 0.205    | 1         | 24            | 17026         | 0           | KED      |
| Zn      | 66   | <b>22.011</b> | ug/L  | 1.287    | 5         | 43            | 8598          | 4           | KED      |
| Zn      | 67   | <b>21.074</b> | ug/L  | 0.684    | 3         | 3             | 1367          | 3           | KED      |
| As      | 75   | <b>2.547</b>  | ug/L  | 0.035    | 1         | 16            | 531           | 2           | KED      |
| [ Se    | 78   | <b>0.370</b>  | ug/L  | 0.110    | 29        | 19            | 26            | 8           | KED      |
| Y       | 89   |               | ug/L  |          |           | 297640        | 345771        | 0           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 66            | 13          | Standard |
| [> In-1 | 115  |               | ug/L  |          |           | 8217          | 7576          | 1           | KED      |
| Cd      | 111  | <b>0.065</b>  | ug/L  | 0.018    | 28        | 4             | 18            | 21          | KED      |
| Cd      | 114  | <b>0.083</b>  | ug/L  | 0.022    | 26        | 2             | 48            | 24          | KED      |
| [> In   | 115  |               | ug/L  |          |           | 413136        | 377281        | 4           | Standard |
| Ag      | 107  | <b>0.045</b>  | ug/L  | 0.004    | 9         | 89            | 648           | 7           | Standard |
| Ba      | 135  | <b>14.413</b> | ug/L  | 0.690    | 4         | 37            | 45420         | 0           | Standard |
| [ Ba    | 137  | <b>14.311</b> | ug/L  | 0.688    | 4         | 46            | 80033         | 0           | Standard |
| [> Tb   | 159  |               | ug/L  |          |           | 720127        | 652430        | 5           | Standard |
| [ Pb    | 208  | <b>4.913</b>  | ug/L  | 0.259    | 5         | 200           | 198345        | 0           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0158-06**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, April 07, 2023 22:51:03**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30728         | 42166         | 1           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4438068       | 4134510       | 0           | Standard |
| > Sc    | 45   |               | ug/L  |          |           | 546109        | 530966        | 1           | Standard |
| Cr      | 52   | <b>7.299</b>  | ug/L  | 0.169    | 2         | 17159         | 143781        | 2           | Standard |
| Cr      | 53   | <b>7.368</b>  | ug/L  | 0.123    | 1         | 216           | 15018         | 0           | Standard |
| Mn      | 55   | <b>54.747</b> | ug/L  | 0.504    | 0         | 1132          | 1340060       | 0           | Standard |
| > Ge    | 72   |               | ug/L  |          |           | 29835         | 28180         | 3           | KED      |
| Ni      | 60   | <b>4.244</b>  | ug/L  | 0.159    | 3         | 138           | 4669          | 1           | KED      |
| Ni      | 62   | <b>4.337</b>  | ug/L  | 0.298    | 6         | 33            | 787           | 2           | KED      |
| Cu      | 63   | <b>10.759</b> | ug/L  | 0.224    | 2         | 80            | 33637         | 1           | KED      |
| Cu      | 65   | <b>10.880</b> | ug/L  | 0.295    | 2         | 24            | 16780         | 1           | KED      |
| Zn      | 66   | <b>23.621</b> | ug/L  | 0.611    | 2         | 43            | 9370          | 0           | KED      |
| Zn      | 67   | <b>23.724</b> | ug/L  | 1.608    | 6         | 3             | 1561          | 5           | KED      |
| As      | 75   | <b>2.423</b>  | ug/L  | 0.055    | 2         | 16            | 514           | 1           | KED      |
| Se      | 78   | <b>0.299</b>  | ug/L  | 0.189    | 63        | 19            | 25            | 15          | KED      |
| Y       | 89   |               | ug/L  |          |           | 297640        | 363192        | 1           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 62            | 15          | Standard |
| > In-1  | 115  |               | ug/L  |          |           | 8217          | 7736          | 3           | KED      |
| Cd      | 111  | <b>0.200</b>  | ug/L  | 0.018    | 9         | 4             | 49            | 9           | KED      |
| Cd      | 114  | <b>0.194</b>  | ug/L  | 0.008    | 4         | 2             | 110           | 1           | KED      |
| > In    | 115  |               | ug/L  |          |           | 413136        | 389355        | 2           | Standard |
| Ag      | 107  | <b>0.228</b>  | ug/L  | 0.001    | 0         | 89            | 3046          | 2           | Standard |
| Ba      | 135  | <b>12.681</b> | ug/L  | 0.170    | 1         | 37            | 41302         | 0           | Standard |
| Ba      | 137  | <b>12.707</b> | ug/L  | 0.425    | 3         | 46            | 73417         | 1           | Standard |
| > Tb    | 159  |               | ug/L  |          |           | 720127        | 673859        | 1           | Standard |
| Pb      | 208  | <b>7.116</b>  | ug/L  | 0.124    | 1         | 200           | 297160        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0158-07**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, April 07, 2023 22:55:47**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30728         | 43673         | 1           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4438068       | 4094241       | 1           | Standard |
| [> Sc   | 45   |               | ug/L  |          |           | 546109        | 538529        | 1           | Standard |
| Cr      | 52   | <b>6.145</b>  | ug/L  | 0.084    | 1         | 17159         | 125453        | 0           | Standard |
| Cr      | 53   | <b>6.176</b>  | ug/L  | 0.132    | 2         | 216           | 12801         | 0           | Standard |
| Mn      | 55   | <b>51.559</b> | ug/L  | 0.595    | 1         | 1132          | 1279989       | 0           | Standard |
| [> Ge   | 72   |               | ug/L  |          |           | 29835         | 27390         | 2           | KED      |
| Ni      | 60   | <b>4.882</b>  | ug/L  | 0.227    | 4         | 138           | 5202          | 1           | KED      |
| Ni      | 62   | <b>5.184</b>  | ug/L  | 0.221    | 4         | 33            | 910           | 5           | KED      |
| Cu      | 63   | <b>9.120</b>  | ug/L  | 0.187    | 2         | 80            | 27727         | 0           | KED      |
| Cu      | 65   | <b>9.384</b>  | ug/L  | 0.615    | 6         | 24            | 14067         | 5           | KED      |
| Zn      | 66   | <b>20.018</b> | ug/L  | 1.225    | 6         | 43            | 7721          | 3           | KED      |
| Zn      | 67   | <b>19.405</b> | ug/L  | 1.534    | 7         | 3             | 1242          | 6           | KED      |
| As      | 75   | <b>2.923</b>  | ug/L  | 0.049    | 1         | 16            | 599           | 1           | KED      |
| Se      | 78   | <b>0.310</b>  | ug/L  | 0.084    | 27        | 19            | 25            | 7           | KED      |
| Y       | 89   |               | ug/L  |          |           | 297640        | 376411        | 3           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 66            | 32          | Standard |
| [> In-1 | 115  |               | ug/L  |          |           | 8217          | 7727          | 1           | KED      |
| Cd      | 111  | <b>0.088</b>  | ug/L  | 0.039    | 44        | 4             | 23            | 36          | KED      |
| Cd      | 114  | <b>0.086</b>  | ug/L  | 0.005    | 5         | 2             | 50            | 4           | KED      |
| [> In   | 115  |               | ug/L  |          |           | 413136        | 388603        | 0           | Standard |
| Ag      | 107  | <b>0.054</b>  | ug/L  | 0.001    | 1         | 89            | 780           | 0           | Standard |
| Ba      | 135  | <b>14.474</b> | ug/L  | 0.078    | 0         | 37            | 47054         | 1           | Standard |
| Ba      | 137  | <b>14.533</b> | ug/L  | 0.077    | 0         | 46            | 83835         | 0           | Standard |
| [> Tb   | 159  |               | ug/L  |          |           | 720127        | 677917        | 0           | Standard |
| Pb      | 208  | <b>5.807</b>  | ug/L  | 0.041    | 0         | 200           | 244037        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0158-10**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, April 07, 2023 23:00:31**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30728         | 43432         | 0           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4438068       | 4158038       | 1           | Standard |
| [> Sc   | 45   |               | ug/L  |          |           | 546109        | 549316        | 0           | Standard |
| Cr      | 52   | <b>6.711</b>  | ug/L  | 0.203    | 3         | 17159         | 138157        | 2           | Standard |
| Cr      | 53   | <b>6.871</b>  | ug/L  | 0.186    | 2         | 216           | 14504         | 1           | Standard |
| Mn      | 55   | <b>80.779</b> | ug/L  | 1.636    | 2         | 1132          | 2045103       | 2           | Standard |
| [> Ge   | 72   |               | ug/L  |          |           | 29835         | 27935         | 1           | KED      |
| Ni      | 60   | <b>5.261</b>  | ug/L  | 0.107    | 2         | 138           | 5712          | 3           | KED      |
| Ni      | 62   | <b>5.284</b>  | ug/L  | 0.083    | 1         | 33            | 945           | 0           | KED      |
| Cu      | 63   | <b>12.427</b> | ug/L  | 0.113    | 0         | 80            | 38522         | 1           | KED      |
| Cu      | 65   | <b>12.468</b> | ug/L  | 0.240    | 1         | 24            | 19069         | 2           | KED      |
| Zn      | 66   | <b>24.255</b> | ug/L  | 0.561    | 2         | 43            | 9540          | 1           | KED      |
| Zn      | 67   | <b>24.203</b> | ug/L  | 0.900    | 3         | 3             | 1581          | 4           | KED      |
| As      | 75   | <b>3.186</b>  | ug/L  | 0.027    | 0         | 16            | 665           | 0           | KED      |
| [ Se    | 78   | <b>0.299</b>  | ug/L  | 0.133    | 44        | 19            | 25            | 12          | KED      |
| Y       | 89   |               | ug/L  |          |           | 297640        | 398849        | 1           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 70            | 7           | Standard |
| [> In-1 | 115  |               | ug/L  |          |           | 8217          | 7714          | 0           | KED      |
| Cd      | 111  | <b>0.175</b>  | ug/L  | 0.022    | 12        | 4             | 43            | 11          | KED      |
| [ Cd    | 114  | <b>0.195</b>  | ug/L  | 0.050    | 25        | 2             | 111           | 24          | KED      |
| [> In   | 115  |               | ug/L  |          |           | 413136        | 378907        | 0           | Standard |
| Ag      | 107  | <b>0.130</b>  | ug/L  | 0.006    | 4         | 89            | 1725          | 5           | Standard |
| Ba      | 135  | <b>18.582</b> | ug/L  | 0.417    | 2         | 37            | 58883         | 1           | Standard |
| [ Ba    | 137  | <b>18.630</b> | ug/L  | 0.267    | 1         | 46            | 104768        | 0           | Standard |
| [> Tb   | 159  |               | ug/L  |          |           | 720127        | 671050        | 2           | Standard |
| [ Pb    | 208  | <b>7.707</b>  | ug/L  | 0.210    | 2         | 200           | 320382        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0157-01**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, April 07, 2023 23:05:15**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30728         | 41530         | 2           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4438068       | 4082687       | 0           | Standard |
| > Sc    | 45   |               | ug/L  |          |           | 546109        | 542497        | 1           | Standard |
| Cr      | 52   | <b>6.585</b>  | ug/L  | 0.136    | 2         | 17159         | 134184        | 0           | Standard |
| Cr      | 53   | <b>6.688</b>  | ug/L  | 0.127    | 1         | 216           | 13947         | 1           | Standard |
| Mn      | 55   | <b>55.826</b> | ug/L  | 0.951    | 1         | 1132          | 1395997       | 0           | Standard |
| > Ge    | 72   |               | ug/L  |          |           | 29835         | 27863         | 1           | KED      |
| Ni      | 60   | <b>4.959</b>  | ug/L  | 0.173    | 3         | 138           | 5376          | 2           | KED      |
| Ni      | 62   | <b>5.270</b>  | ug/L  | 0.224    | 4         | 33            | 940           | 3           | KED      |
| Cu      | 63   | <b>11.137</b> | ug/L  | 0.175    | 1         | 80            | 34438         | 0           | KED      |
| Cu      | 65   | <b>11.049</b> | ug/L  | 0.116    | 1         | 24            | 16860         | 1           | KED      |
| Zn      | 66   | <b>25.636</b> | ug/L  | 0.772    | 3         | 43            | 10055         | 1           | KED      |
| Zn      | 67   | <b>24.580</b> | ug/L  | 1.336    | 5         | 3             | 1601          | 4           | KED      |
| As      | 75   | <b>2.269</b>  | ug/L  | 0.066    | 2         | 16            | 477           | 3           | KED      |
| Se      | 78   | <b>0.122</b>  | ug/L  | 0.112    | 91        | 19            | 21            | 12          | KED      |
| Y       | 89   |               | ug/L  |          |           | 297640        | 367919        | 1           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 66            | 24          | Standard |
| > In-1  | 115  |               | ug/L  |          |           | 8217          | 7772          | 3           | KED      |
| Cd      | 111  | <b>0.119</b>  | ug/L  | 0.033    | 28        | 4             | 31            | 22          | KED      |
| Cd      | 114  | <b>0.109</b>  | ug/L  | 0.021    | 19        | 2             | 63            | 16          | KED      |
| > In    | 115  |               | ug/L  |          |           | 413136        | 388692        | 1           | Standard |
| Ag      | 107  | <b>0.108</b>  | ug/L  | 0.003    | 3         | 89            | 1480          | 1           | Standard |
| Ba      | 135  | <b>15.739</b> | ug/L  | 0.564    | 3         | 37            | 51153         | 2           | Standard |
| Ba      | 137  | <b>15.587</b> | ug/L  | 0.093    | 0         | 46            | 89927         | 1           | Standard |
| > Tb    | 159  |               | ug/L  |          |           | 720127        | 676703        | 1           | Standard |
| Pb      | 208  | <b>7.642</b>  | ug/L  | 0.124    | 1         | 200           | 320457        | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0030-DUP2**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, April 07, 2023 23:09:59**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30728         | 42509         | 1           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4438068       | 4080520       | 1           | Standard |
| [> Sc   | 45   |               | ug/L  |          |           | 546109        | 517348        | 4           | Standard |
| Cr      | 52   | <b>7.064</b>  | ug/L  | 0.334    | 4         | 17159         | 135925        | 0           | Standard |
| Cr      | 53   | <b>7.161</b>  | ug/L  | 0.236    | 3         | 216           | 14216         | 2           | Standard |
| Mn      | 55   | <b>60.029</b> | ug/L  | 1.705    | 2         | 1132          | 1430513       | 3           | Standard |
| [> Ge   | 72   |               | ug/L  |          |           | 29835         | 27788         | 1           | KED      |
| Ni      | 60   | <b>5.078</b>  | ug/L  | 0.050    | 0         | 138           | 5489          | 2           | KED      |
| Ni      | 62   | <b>5.267</b>  | ug/L  | 0.316    | 6         | 33            | 937           | 4           | KED      |
| Cu      | 63   | <b>11.541</b> | ug/L  | 0.269    | 2         | 80            | 35587         | 1           | KED      |
| Cu      | 65   | <b>11.678</b> | ug/L  | 0.224    | 1         | 24            | 17768         | 2           | KED      |
| Zn      | 66   | <b>29.204</b> | ug/L  | 0.585    | 2         | 43            | 11419         | 1           | KED      |
| Zn      | 67   | <b>28.813</b> | ug/L  | 0.242    | 0         | 3             | 1871          | 0           | KED      |
| As      | 75   | <b>2.503</b>  | ug/L  | 0.056    | 2         | 16            | 523           | 0           | KED      |
| [ Se    | 78   | <b>0.203</b>  | ug/L  | 0.103    | 50        | 19            | 23            | 9           | KED      |
| Y       | 89   |               | ug/L  |          |           | 297640        | 355832        | 5           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 59            | 17          | Standard |
| [> In-1 | 115  |               | ug/L  |          |           | 8217          | 7603          | 3           | KED      |
| Cd      | 111  | <b>0.132</b>  | ug/L  | 0.035    | 26        | 4             | 33            | 20          | KED      |
| Cd      | 114  | <b>0.118</b>  | ug/L  | 0.027    | 22        | 2             | 67            | 19          | KED      |
| [> In   | 115  |               | ug/L  |          |           | 413136        | 372461        | 7           | Standard |
| Ag      | 107  | <b>0.121</b>  | ug/L  | 0.010    | 7         | 89            | 1581          | 1           | Standard |
| Ba      | 135  | <b>16.193</b> | ug/L  | 0.969    | 5         | 37            | 50297         | 2           | Standard |
| [ Ba    | 137  | <b>16.141</b> | ug/L  | 1.279    | 7         | 46            | 88878         | 0           | Standard |
| [> Tb   | 159  |               | ug/L  |          |           | 720127        | 649519        | 4           | Standard |
| [ Pb    | 208  | <b>9.116</b>  | ug/L  | 0.411    | 4         | 200           | 366423        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0030-MS2**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, April 07, 2023 23:14:43**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30728         | 42549         | 2           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4438068       | 4145699       | 0           | Standard |
| > Sc    | 45   |               | ug/L  |          |           | 546109        | 536133        | 1           | Standard |
| Cr      | 52   | <b>16.703</b> | ug/L  | 0.306    | 1         | 17159         | 310569        | 2           | Standard |
| Cr      | 53   | <b>16.753</b> | ug/L  | 0.470    | 2         | 216           | 34204         | 1           | Standard |
| Mn      | 55   | <b>71.174</b> | ug/L  | 0.846    | 1         | 1132          | 1758942       | 2           | Standard |
| > Ge    | 72   |               | ug/L  |          |           | 29835         | 27636         | 1           | KED      |
| Ni      | 60   | <b>15.758</b> | ug/L  | 0.333    | 2         | 138           | 16673         | 3           | KED      |
| Ni      | 62   | <b>16.014</b> | ug/L  | 0.515    | 3         | 33            | 2771          | 3           | KED      |
| Cu      | 63   | <b>21.916</b> | ug/L  | 0.363    | 1         | 80            | 67142         | 0           | KED      |
| Cu      | 65   | <b>22.172</b> | ug/L  | 0.279    | 1         | 24            | 33535         | 2           | KED      |
| Zn      | 66   | <b>60.468</b> | ug/L  | 0.413    | 0         | 43            | 23475         | 1           | KED      |
| Zn      | 67   | <b>55.846</b> | ug/L  | 1.753    | 3         | 3             | 3605          | 3           | KED      |
| As      | 75   | <b>12.431</b> | ug/L  | 0.207    | 1         | 16            | 2525          | 2           | KED      |
| Se      | 78   | <b>32.037</b> | ug/L  | 1.258    | 3         | 19            | 744           | 4           | KED      |
| Y       | 89   |               | ug/L  |          |           | 297640        | 375844        | 1           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 81            | 14          | Standard |
| > In-1  | 115  |               | ug/L  |          |           | 8217          | 7505          | 1           | KED      |
| Cd      | 111  | <b>10.596</b> | ug/L  | 0.132    | 1         | 4             | 2352          | 1           | KED      |
| Cd      | 114  | <b>10.852</b> | ug/L  | 0.110    | 1         | 2             | 5920          | 1           | KED      |
| > In    | 115  |               | ug/L  |          |           | 413136        | 387488        | 1           | Standard |
| Ag      | 107  | <b>7.355</b>  | ug/L  | 0.179    | 2         | 89            | 95089         | 3           | Standard |
| Ba      | 135  | <b>27.790</b> | ug/L  | 0.479    | 1         | 37            | 90034         | 0           | Standard |
| Ba      | 137  | <b>27.961</b> | ug/L  | 0.519    | 1         | 46            | 160783        | 1           | Standard |
| > Tb    | 159  |               | ug/L  |          |           | 720127        | 673668        | 0           | Standard |
| Pb      | 208  | <b>20.093</b> | ug/L  | 0.327    | 1         | 200           | 838617        | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0030-MSD2**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, April 07, 2023 23:19:27**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30728         | 40134         | 2           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4438068       | 4097465       | 0           | Standard |
| > Sc    | 45   |               | ug/L  |          |           | 546109        | 538849        | 1           | Standard |
| Cr      | 52   | <b>16.289</b> | ug/L  | 0.419    | 2         | 17159         | 304726        | 0           | Standard |
| Cr      | 53   | <b>16.477</b> | ug/L  | 0.176    | 1         | 216           | 33826         | 2           | Standard |
| Mn      | 55   | <b>68.561</b> | ug/L  | 1.803    | 2         | 1132          | 1702506       | 1           | Standard |
| > Ge    | 72   |               | ug/L  |          |           | 29835         | 27799         | 2           | KED      |
| Ni      | 60   | <b>15.317</b> | ug/L  | 0.314    | 2         | 138           | 16296         | 0           | KED      |
| Ni      | 62   | <b>15.286</b> | ug/L  | 0.818    | 5         | 33            | 2663          | 6           | KED      |
| Cu      | 63   | <b>22.030</b> | ug/L  | 0.717    | 3         | 80            | 67871         | 2           | KED      |
| Cu      | 65   | <b>22.235</b> | ug/L  | 0.655    | 2         | 24            | 33810         | 0           | KED      |
| Zn      | 66   | <b>58.662</b> | ug/L  | 1.448    | 2         | 43            | 22905         | 2           | KED      |
| Zn      | 67   | <b>55.623</b> | ug/L  | 0.748    | 1         | 3             | 3611          | 1           | KED      |
| As      | 75   | <b>12.458</b> | ug/L  | 0.296    | 2         | 16            | 2544          | 0           | KED      |
| Se      | 78   | <b>31.795</b> | ug/L  | 0.717    | 2         | 19            | 743           | 1           | KED      |
| Y       | 89   |               | ug/L  |          |           | 297640        | 367687        | 2           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 73            | 7           | Standard |
| > In-1  | 115  |               | ug/L  |          |           | 8217          | 7696          | 1           | KED      |
| Cd      | 111  | <b>10.181</b> | ug/L  | 0.052    | 0         | 4             | 2317          | 1           | KED      |
| Cd      | 114  | <b>10.282</b> | ug/L  | 0.195    | 1         | 2             | 5753          | 2           | KED      |
| > In    | 115  |               | ug/L  |          |           | 413136        | 387905        | 1           | Standard |
| Ag      | 107  | <b>8.244</b>  | ug/L  | 0.169    | 2         | 89            | 106660        | 1           | Standard |
| Ba      | 135  | <b>27.420</b> | ug/L  | 0.057    | 0         | 37            | 88947         | 0           | Standard |
| Ba      | 137  | <b>27.179</b> | ug/L  | 0.190    | 0         | 46            | 156473        | 1           | Standard |
| > Tb    | 159  |               | ug/L  |          |           | 720127        | 676400        | 3           | Standard |
| Pb      | 208  | <b>18.382</b> | ug/L  | 0.541    | 2         | 200           | 769891        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0030-PS2

Sample Dil Factor: 50

DEL

Comments:

Sample Date/Time: Friday, April 07, 2023 23:24:11

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 40633         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4089392       | 1           | Standard |
| > Sc    | 45   |            | ug/L  |          |           | 546109        | 528364        | 6           | Standard |
| Cr      | 52   | 24.692     | ug/L  | 1.480    | 5         | 17159         | 443473        | 0           | Standard |
| Cr      | 53   | 25.420     | ug/L  | 0.989    | 3         | 216           | 50978         | 2           | Standard |
| Mn      | 55   | 75.662     | ug/L  | 2.511    | 3         | 1132          | 1840337       | 3           | Standard |
| > Ge    | 72   |            | ug/L  |          |           | 29835         | 27428         | 1           | KED      |
| Ni      | 60   | 24.195     | ug/L  | 0.136    | 0         | 138           | 25333         | 1           | KED      |
| Ni      | 62   | 24.193     | ug/L  | 0.605    | 2         | 33            | 4139          | 1           | KED      |
| Cu      | 63   | 30.872     | ug/L  | 0.882    | 2         | 80            | 93837         | 2           | KED      |
| Cu      | 65   | 31.020     | ug/L  | 1.015    | 3         | 24            | 46537         | 2           | KED      |
| Zn      | 66   | 89.418     | ug/L  | 3.004    | 3         | 43            | 34423         | 1           | KED      |
| Zn      | 67   | 82.084     | ug/L  | 2.079    | 2         | 3             | 5256          | 2           | KED      |
| As      | 75   | 21.604     | ug/L  | 0.270    | 1         | 16            | 4343          | 0           | KED      |
| Se      | 78   | 59.111     | ug/L  | 1.482    | 2         | 19            | 1347          | 1           | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 363959        | 8           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 69            | 4           | Standard |
| > In-1  | 115  |            | ug/L  |          |           | 8217          | 7626          | 1           | KED      |
| Cd      | 111  | 19.657     | ug/L  | 0.633    | 3         | 4             | 4430          | 2           | KED      |
| Cd      | 114  | 19.554     | ug/L  | 0.339    | 1         | 2             | 10837         | 0           | KED      |
| > In    | 115  |            | ug/L  |          |           | 413136        | 379644        | 6           | Standard |
| Ag      | 107  | 20.165     | ug/L  | 1.094    | 5         | 89            | 254695        | 1           | Standard |
| Ba      | 135  | 36.733     | ug/L  | 1.612    | 4         | 37            | 116400        | 1           | Standard |
| Ba      | 137  | 36.211     | ug/L  | 2.554    | 7         | 46            | 203428        | 0           | Standard |
| > Tb    | 159  |            | ug/L  |          |           | 720127        | 653282        | 7           | Standard |
| Pb      | 208  | 28.181     | ug/L  | 1.762    | 6         | 200           | 1137098       | 2           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 23:28:56

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 31576         | 3           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4026272       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 462798        | 0           | Standard |
| Cr      | 52   | -0.031     | ug/L  | 0.014    | 46        | 17159         | 14076         | 1           | Standard |
| Cr      | 53   | -0.032     | ug/L  | 0.003    | 10        | 216           | 127           | 4           | Standard |
| Mn      | 55   | -0.013     | ug/L  | 0.001    | 3         | 1132          | 676           | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 26530         | 2           | KED      |
| Ni      | 60   | -0.098     | ug/L  | 0.005    | 5         | 138           | 24            | 20          | KED      |
| Ni      | 62   | -0.132     | ug/L  | 0.025    | 18        | 33            | 8             | 48          | KED      |
| Cu      | 63   | 0.028      | ug/L  | 0.006    | 23        | 80            | 152           | 9           | KED      |
| Cu      | 65   | 0.038      | ug/L  | 0.009    | 23        | 24            | 77            | 17          | KED      |
| Zn      | 66   | 0.008      | ug/L  | 0.018    | 229       | 43            | 41            | 14          | KED      |
| Zn      | 67   | 0.028      | ug/L  | 0.067    | 235       | 3             | 5             | 78          | KED      |
| As      | 75   | -0.042     | ug/L  | 0.004    | 8         | 16            | 6             | 11          | KED      |
| Se      | 78   | -0.049     | ug/L  | 0.074    | 149       | 19            | 16            | 7           | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 265431        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 34            | 38          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 7342          | 2           | KED      |
| Cd      | 111  | 0.003      | ug/L  | 0.009    | 257       | 4             | 4             | 44          | KED      |
| Cd      | 114  | 0.000      | ug/L  | 0.002    | 497       | 2             | 2             | 46          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 372303        | 0           | Standard |
| Ag      | 107  | -0.003     | ug/L  | 0.001    | 27        | 89            | 46            | 20          | Standard |
| Ba      | 135  | 0.004      | ug/L  | 0.005    | 141       | 37            | 45            | 35          | Standard |
| Ba      | 137  | 0.008      | ug/L  | 0.003    | 42        | 46            | 86            | 21          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 640099        | 1           | Standard |
| Pb      | 208  | -0.001     | ug/L  | 0.001    | 105       | 200           | 147           | 21          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 23:33:41

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 31299         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4274200       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 487685        | 1           | Standard |
| Cr      | 52   | 50.579     | ug/L  | 1.067    | 2         | 17159         | 824256        | 1           | Standard |
| Cr      | 53   | 50.707     | ug/L  | 1.011    | 1         | 216           | 93798         | 1           | Standard |
| Mn      | 55   | 50.528     | ug/L  | 0.535    | 1         | 1132          | 1136045       | 0           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 26969         | 1           | KED      |
| Ni      | 60   | 49.486     | ug/L  | 1.131    | 2         | 138           | 50808         | 1           | KED      |
| Ni      | 62   | 50.041     | ug/L  | 1.607    | 3         | 33            | 8386          | 3           | KED      |
| Cu      | 63   | 50.258     | ug/L  | 0.346    | 0         | 80            | 150168        | 1           | KED      |
| Cu      | 65   | 50.040     | ug/L  | 0.597    | 1         | 24            | 73831         | 2           | KED      |
| Zn      | 66   | 50.156     | ug/L  | 0.345    | 0         | 43            | 19008         | 1           | KED      |
| Zn      | 67   | 51.151     | ug/L  | 1.955    | 3         | 3             | 3221          | 2           | KED      |
| As      | 75   | 50.586     | ug/L  | 0.637    | 1         | 16            | 9980          | 0           | KED      |
| Se      | 78   | 50.617     | ug/L  | 0.085    | 0         | 19            | 1137          | 1           | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 279113        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 48            | 9           | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 7601          | 1           | KED      |
| Cd      | 111  | 49.561     | ug/L  | 0.630    | 1         | 4             | 11130         | 1           | KED      |
| Cd      | 114  | 49.100     | ug/L  | 1.523    | 3         | 2             | 27121         | 2           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 381521        | 2           | Standard |
| Ag      | 107  | 50.009     | ug/L  | 1.624    | 3         | 89            | 635962        | 3           | Standard |
| Ba      | 135  | 51.156     | ug/L  | 2.353    | 4         | 37            | 163099        | 3           | Standard |
| Ba      | 137  | 50.661     | ug/L  | 1.786    | 3         | 46            | 286680        | 1           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 659754        | 0           | Standard |
| Pb      | 208  | 50.500     | ug/L  | 0.441    | 0         | 200           | 2063925       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 23:41:09

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30728         | 31490         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4438068       | 4110847       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 546109        | 463837        | 1           | Standard |
| Cr      | 52   | -0.011     | ug/L  | 0.035    | 310       | 17159         | 14398         | 1           | Standard |
| Cr      | 53   | -0.035     | ug/L  | 0.002    | 6         | 216           | 122           | 4           | Standard |
| Mn      | 55   | -0.014     | ug/L  | 0.002    | 11        | 1132          | 655           | 3           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 29835         | 26634         | 1           | KED      |
| Ni      | 60   | -0.106     | ug/L  | 0.007    | 6         | 138           | 16            | 40          | KED      |
| Ni      | 62   | -0.109     | ug/L  | 0.006    | 5         | 33            | 12            | 9           | KED      |
| Cu      | 63   | -0.007     | ug/L  | 0.004    | 59        | 80            | 51            | 22          | KED      |
| Cu      | 65   | 0.003      | ug/L  | 0.005    | 169       | 24            | 26            | 25          | KED      |
| Zn      | 66   | -0.022     | ug/L  | 0.021    | 97        | 43            | 30            | 25          | KED      |
| Zn      | 67   | 0.017      | ug/L  | 0.017    | 99        | 3             | 4             | 24          | KED      |
| As      | 75   | -0.044     | ug/L  | 0.006    | 12        | 16            | 6             | 19          | KED      |
| [ Se    | 78   | -0.039     | ug/L  | 0.054    | 137       | 19            | 16            | 8           | KED      |
| Y       | 89   |            | ug/L  |          |           | 297640        | 261052        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 43            | 20          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 8217          | 7420          | 1           | KED      |
| Cd      | 111  | 0.005      | ug/L  | 0.009    | 187       | 4             | 4             | 40          | KED      |
| Cd      | 114  | 0.008      | ug/L  | 0.002    | 26        | 2             | 6             | 18          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 413136        | 377722        | 0           | Standard |
| Ag      | 107  | -0.001     | ug/L  | 0.000    | 23        | 89            | 64            | 6           | Standard |
| Ba      | 135  | -0.004     | ug/L  | 0.001    | 32        | 37            | 21            | 18          | Standard |
| [ Ba    | 137  | -0.001     | ug/L  | 0.001    | 109       | 46            | 35            | 21          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 720127        | 632607        | 0           | Standard |
| [ Pb    | 208  | -0.000     | ug/L  | 0.001    | 691       | 200           | 172           | 14          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

**Sample ID: SEQ-CAL1**

**Sample Dil Factor:**

**Comments:**

**Sample Date/Time: Friday, April 07, 2023 23:45:53**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           |               | 30779         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           |               | 4052820       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           |               | 457643        | 1           | Standard |
| Cr      | 52   |            | ug/L  |          |           |               | 14350         | 3           | Standard |
| Cr      | 53   |            | ug/L  |          |           |               | 118           | 5           | Standard |
| Mn      | 55   |            | ug/L  |          |           |               | 638           | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           |               | 26593         | 0           | KED      |
| Ni      | 60   |            | ug/L  |          |           |               | 24            | 20          | KED      |
| Ni      | 62   |            | ug/L  |          |           |               | 4             | 89          | KED      |
| Cu      | 63   |            | ug/L  |          |           |               | 39            | 16          | KED      |
| Cu      | 65   |            | ug/L  |          |           |               | 28            | 6           | KED      |
| Zn      | 66   |            | ug/L  |          |           |               | 24            | 36          | KED      |
| Zn      | 67   |            | ug/L  |          |           |               | 3             | 50          | KED      |
| As      | 75   |            | ug/L  |          |           |               | 6             | 32          | KED      |
| Se      | 78   |            | ug/L  |          |           |               | 20            | 16          | KED      |
| Y       | 89   |            | ug/L  |          |           |               | 265146        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           |               | 48            | 27          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           |               | 7168          | 2           | KED      |
| Cd      | 111  |            | ug/L  |          |           |               | 3             | 66          | KED      |
| Cd      | 114  |            | ug/L  |          |           |               | 3             | 72          | KED      |
| [> In   | 115  |            | ug/L  |          |           |               | 374013        | 1           | Standard |
| Ag      | 107  |            | ug/L  |          |           |               | 48            | 15          | Standard |
| Ba      | 135  |            | ug/L  |          |           |               | 24            | 7           | Standard |
| Ba      | 137  |            | ug/L  |          |           |               | 29            | 25          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           |               | 624828        | 1           | Standard |
| Pb      | 208  |            | ug/L  |          |           |               | 160           | 6           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 23:50:38

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 31113         | 3           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4217623       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 457643        | 473497        | 0           | Standard |
| Cr      | 52   | 51.408     | ug/L  | 0.812    | 1         | 14350         | 813146        | 0           | Standard |
| Cr      | 53   | 51.725     | ug/L  | 0.960    | 1         | 118           | 92830         | 1           | Standard |
| Mn      | 55   | 51.642     | ug/L  | 0.257    | 0         | 638           | 1127010       | 0           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 26593         | 26690         | 1           | KED      |
| Ni      | 60   | 48.951     | ug/L  | 0.585    | 1         | 24            | 49645         | 0           | KED      |
| Ni      | 62   | 48.356     | ug/L  | 0.627    | 1         | 4             | 7995          | 1           | KED      |
| Cu      | 63   | 49.568     | ug/L  | 0.745    | 1         | 39            | 146531        | 0           | KED      |
| Cu      | 65   | 50.252     | ug/L  | 0.960    | 1         | 28            | 73364         | 0           | KED      |
| Zn      | 66   | 50.337     | ug/L  | 1.069    | 2         | 24            | 18861         | 0           | KED      |
| Zn      | 67   | 50.422     | ug/L  | 0.490    | 0         | 3             | 3144          | 2           | KED      |
| As      | 75   | 50.641     | ug/L  | 0.265    | 0         | 6             | 9881          | 1           | KED      |
| [ Se    | 78   | 50.193     | ug/L  | 0.907    | 1         | 20            | 1119          | 3           | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 270958        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 51            | 9           | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7168          | 7480          | 2           | KED      |
| Cd      | 111  | 50.296     | ug/L  | 0.978    | 1         | 3             | 11112         | 0           | KED      |
| [ Cd    | 114  | 48.957     | ug/L  | 2.643    | 5         | 3             | 26596         | 3           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 374013        | 374346        | 0           | Standard |
| Ag      | 107  | 51.403     | ug/L  | 0.502    | 0         | 48            | 641406        | 0           | Standard |
| Ba      | 135  | 51.477     | ug/L  | 0.982    | 1         | 24            | 161106        | 1           | Standard |
| [ Ba    | 137  | 51.599     | ug/L  | 0.207    | 0         | 29            | 286629        | 0           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 624828        | 648333        | 1           | Standard |
| [ Pb    | 208  | 50.752     | ug/L  | 0.404    | 0         | 160           | 2038272       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 23:58:06

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 30542         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4147744       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 457643        | 465460        | 1           | Standard |
| Cr      | 52   | -0.029     | ug/L  | 0.019    | 64        | 14350         | 14144         | 0           | Standard |
| Cr      | 53   | -0.002     | ug/L  | 0.008    | 349       | 118           | 116           | 10          | Standard |
| Mn      | 55   | -0.001     | ug/L  | 0.001    | 133       | 638           | 634           | 2           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 26593         | 26507         | 1           | KED      |
| Ni      | 60   | -0.005     | ug/L  | 0.014    | 286       | 24            | 19            | 73          | KED      |
| Ni      | 62   | 0.008      | ug/L  | 0.042    | 546       | 4             | 5             | 120         | KED      |
| Cu      | 63   | 0.002      | ug/L  | 0.003    | 124       | 39            | 46            | 19          | KED      |
| Cu      | 65   | 0.004      | ug/L  | 0.003    | 75        | 28            | 33            | 13          | KED      |
| Zn      | 66   | 0.007      | ug/L  | 0.028    | 388       | 24            | 26            | 37          | KED      |
| Zn      | 67   | 0.063      | ug/L  | 0.082    | 131       | 3             | 7             | 66          | KED      |
| As      | 75   | 0.005      | ug/L  | 0.005    | 109       | 6             | 7             | 15          | KED      |
| Se      | 78   | -0.216     | ug/L  | 0.162    | 74        | 20            | 16            | 21          | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 263033        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 43            | 34          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7168          | 7439          | 0           | KED      |
| Cd      | 111  | -0.001     | ug/L  | 0.009    | 1310      | 3             | 3             | 50          | KED      |
| Cd      | 114  | 0.010      | ug/L  | 0.002    | 19        | 3             | 8             | 12          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 374013        | 371286        | 0           | Standard |
| Ag      | 107  | 0.001      | ug/L  | 0.001    | 97        | 48            | 62            | 20          | Standard |
| Ba      | 135  | -0.001     | ug/L  | 0.003    | 300       | 24            | 20            | 50          | Standard |
| Ba      | 137  | 0.002      | ug/L  | 0.001    | 64        | 29            | 38            | 15          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 624828        | 629424        | 2           | Standard |
| Pb      | 208  | 0.000      | ug/L  | 0.000    | 185       | 160           | 170           | 10          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0022-BLK3**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 00:02:51**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 42848         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4056450       | 1           | Standard |
| > Sc    | 45   |            | ug/L  |          |           | 457643        | 478236        | 0           | Standard |
| Cr      | 52   | 0.012      | ug/L  | 0.035    | 290       | 14350         | 15185         | 3           | Standard |
| Cr      | 53   | 0.028      | ug/L  | 0.002    | 8         | 118           | 173           | 2           | Standard |
| Mn      | 55   | 0.009      | ug/L  | 0.000    | 3         | 638           | 870           | 0           | Standard |
| > Ge    | 72   |            | ug/L  |          |           | 26593         | 26647         | 0           | KED      |
| Ni      | 60   | -0.011     | ug/L  | 0.003    | 27        | 24            | 13            | 20          | KED      |
| Ni      | 62   | 0.027      | ug/L  | 0.024    | 89        | 4             | 8             | 44          | KED      |
| Cu      | 63   | 0.021      | ug/L  | 0.003    | 16        | 39            | 100           | 9           | KED      |
| Cu      | 65   | 0.013      | ug/L  | 0.003    | 26        | 28            | 47            | 10          | KED      |
| Zn      | 66   | 0.104      | ug/L  | 0.029    | 27        | 24            | 62            | 16          | KED      |
| Zn      | 67   | 0.112      | ug/L  | 0.063    | 56        | 3             | 10            | 36          | KED      |
| As      | 75   | -0.004     | ug/L  | 0.017    | 405       | 6             | 6             | 53          | KED      |
| Se      | 78   | -0.295     | ug/L  | 0.145    | 49        | 20            | 14            | 22          | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 270287        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 51            | 16          | Standard |
| > In-1  | 115  |            | ug/L  |          |           | 7168          | 7316          | 1           | KED      |
| Cd      | 111  | -0.003     | ug/L  | 0.009    | 288       | 3             | 3             | 62          | KED      |
| Cd      | 114  | -0.000     | ug/L  | 0.004    | 1182      | 3             | 2             | 72          | KED      |
| > In    | 115  |            | ug/L  |          |           | 374013        | 384803        | 0           | Standard |
| Ag      | 107  | -0.000     | ug/L  | 0.001    | 2059      | 48            | 49            | 30          | Standard |
| Ba      | 135  | 0.056      | ug/L  | 0.003    | 5         | 24            | 205           | 4           | Standard |
| Ba      | 137  | 0.058      | ug/L  | 0.004    | 6         | 29            | 361           | 6           | Standard |
| > Tb    | 159  |            | ug/L  |          |           | 624828        | 635459        | 1           | Standard |
| Pb      | 208  | -0.001     | ug/L  | 0.000    | 31        | 160           | 133           | 5           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0022-BS3**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 00:07:35**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 45016         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4249359       | 1           | Standard |
| > Sc    | 45   |            | ug/L  |          |           | 457643        | 478705        | 1           | Standard |
| Cr      | 52   | 26.038     | ug/L  | 0.414    | 1         | 14350         | 423855        | 2           | Standard |
| Cr      | 53   | 26.161     | ug/L  | 0.598    | 2         | 118           | 47521         | 0           | Standard |
| Mn      | 55   | 25.495     | ug/L  | 0.529    | 2         | 638           | 562749        | 0           | Standard |
| > Ge    | 72   |            | ug/L  |          |           | 26593         | 26252         | 2           | KED      |
| Ni      | 60   | 25.590     | ug/L  | 1.033    | 4         | 24            | 25525         | 1           | KED      |
| Ni      | 62   | 26.217     | ug/L  | 0.654    | 2         | 4             | 4264          | 0           | KED      |
| Cu      | 63   | 25.600     | ug/L  | 0.608    | 2         | 39            | 74439         | 0           | KED      |
| Cu      | 65   | 25.444     | ug/L  | 0.391    | 1         | 28            | 36548         | 1           | KED      |
| Zn      | 66   | 84.802     | ug/L  | 2.601    | 3         | 24            | 31231         | 1           | KED      |
| Zn      | 67   | 78.703     | ug/L  | 1.778    | 2         | 3             | 4823          | 0           | KED      |
| As      | 75   | 26.283     | ug/L  | 0.606    | 2         | 6             | 5045          | 0           | KED      |
| Se      | 78   | 84.539     | ug/L  | 2.856    | 3         | 20            | 1839          | 0           | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 269142        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 42            | 9           | Standard |
| > In-1  | 115  |            | ug/L  |          |           | 7168          | 7272          | 1           | KED      |
| Cd      | 111  | 25.785     | ug/L  | 0.774    | 3         | 3             | 5540          | 1           | KED      |
| Cd      | 114  | 25.880     | ug/L  | 0.321    | 1         | 3             | 13681         | 2           | KED      |
| > In    | 115  |            | ug/L  |          |           | 374013        | 370590        | 1           | Standard |
| Ag      | 107  | 26.293     | ug/L  | 0.697    | 2         | 48            | 324880        | 3           | Standard |
| Ba      | 135  | 27.277     | ug/L  | 0.374    | 1         | 24            | 84514         | 0           | Standard |
| Ba      | 137  | 26.401     | ug/L  | 0.146    | 0         | 29            | 145198        | 1           | Standard |
| > Tb    | 159  |            | ug/L  |          |           | 624828        | 653237        | 2           | Standard |
| Pb      | 208  | 25.738     | ug/L  | 0.482    | 1         | 160           | 1041360       | 0           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0157-06**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 00:12:19**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30779         | 42760         | 1           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4052820       | 4061760       | 1           | Standard |
| > Sc    | 45   |               | ug/L  |          |           | 457643        | 533058        | 0           | Standard |
| Cr      | 52   | <b>5.667</b>  | ug/L  | 0.125    | 2         | 14350         | 115793        | 2           | Standard |
| Cr      | 53   | <b>5.860</b>  | ug/L  | 0.105    | 1         | 118           | 11962         | 1           | Standard |
| Mn      | 55   | <b>70.597</b> | ug/L  | 1.010    | 1         | 638           | 1734218       | 1           | Standard |
| > Ge    | 72   |               | ug/L  |          |           | 26593         | 27478         | 1           | KED      |
| Ni      | 60   | <b>5.204</b>  | ug/L  | 0.129    | 2         | 24            | 5458          | 3           | KED      |
| Ni      | 62   | <b>5.409</b>  | ug/L  | 0.185    | 3         | 4             | 925           | 4           | KED      |
| Cu      | 63   | <b>12.046</b> | ug/L  | 0.256    | 2         | 39            | 36697         | 2           | KED      |
| Cu      | 65   | <b>12.174</b> | ug/L  | 0.270    | 2         | 28            | 18324         | 2           | KED      |
| Zn      | 66   | <b>19.749</b> | ug/L  | 0.323    | 1         | 24            | 7635          | 1           | KED      |
| Zn      | 67   | <b>19.948</b> | ug/L  | 0.352    | 1         | 3             | 1283          | 2           | KED      |
| As      | 75   | <b>2.383</b>  | ug/L  | 0.088    | 3         | 6             | 485           | 4           | KED      |
| Se      | 78   | <b>0.415</b>  | ug/L  | 0.151    | 36        | 20            | 31            | 12          | KED      |
| Y       | 89   |               | ug/L  |          |           | 265146        | 365548        | 2           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 71            | 18          | Standard |
| > In-1  | 115  |               | ug/L  |          |           | 7168          | 7598          | 0           | KED      |
| Cd      | 111  | <b>0.037</b>  | ug/L  | 0.008    | 20        | 3             | 12            | 13          | KED      |
| Cd      | 114  | <b>0.046</b>  | ug/L  | 0.006    | 11        | 3             | 28            | 10          | KED      |
| > In    | 115  |               | ug/L  |          |           | 374013        | 384692        | 4           | Standard |
| Ag      | 107  | <b>0.042</b>  | ug/L  | 0.011    | 26        | 48            | 584           | 19          | Standard |
| Ba      | 135  | <b>16.742</b> | ug/L  | 0.330    | 1         | 24            | 53836         | 2           | Standard |
| Ba      | 137  | <b>16.546</b> | ug/L  | 0.713    | 4         | 29            | 94355         | 0           | Standard |
| > Tb    | 159  |               | ug/L  |          |           | 624828        | 674654        | 1           | Standard |
| Pb      | 208  | <b>3.511</b>  | ug/L  | 0.085    | 2         | 160           | 146857        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0157-07**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 00:17:04**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30779         | 43190         | 1           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4052820       | 4080317       | 1           | Standard |
| [> Sc   | 45   |               | ug/L  |          |           | 457643        | 539441        | 0           | Standard |
| Cr      | 52   | <b>6.666</b>  | ug/L  | 0.055    | 0         | 14350         | 134849        | 0           | Standard |
| Cr      | 53   | <b>6.790</b>  | ug/L  | 0.132    | 1         | 118           | 14004         | 1           | Standard |
| Mn      | 55   | <b>57.837</b> | ug/L  | 0.446    | 0         | 638           | 1437988       | 1           | Standard |
| [> Ge   | 72   |               | ug/L  |          |           | 26593         | 27700         | 0           | KED      |
| Ni      | 60   | <b>5.103</b>  | ug/L  | 0.167    | 3         | 24            | 5394          | 3           | KED      |
| Ni      | 62   | <b>5.396</b>  | ug/L  | 0.206    | 3         | 4             | 930           | 3           | KED      |
| Cu      | 63   | <b>16.497</b> | ug/L  | 0.530    | 3         | 39            | 50648         | 3           | KED      |
| Cu      | 65   | <b>16.666</b> | ug/L  | 0.398    | 2         | 28            | 25277         | 2           | KED      |
| Zn      | 66   | <b>25.171</b> | ug/L  | 0.391    | 1         | 24            | 9802          | 1           | KED      |
| Zn      | 67   | <b>23.376</b> | ug/L  | 0.276    | 1         | 3             | 1515          | 0           | KED      |
| As      | 75   | <b>2.218</b>  | ug/L  | 0.055    | 2         | 6             | 456           | 1           | KED      |
| Se      | 78   | <b>0.167</b>  | ug/L  | 0.084    | 50        | 20            | 25            | 7           | KED      |
| Y       | 89   |               | ug/L  |          |           | 265146        | 375445        | 2           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 87            | 13          | Standard |
| [> In-1 | 115  |               | ug/L  |          |           | 7168          | 7539          | 0           | KED      |
| Cd      | 111  | <b>0.086</b>  | ug/L  | 0.006    | 6         | 3             | 23            | 6           | KED      |
| Cd      | 114  | <b>0.090</b>  | ug/L  | 0.008    | 9         | 3             | 52            | 9           | KED      |
| [> In   | 115  |               | ug/L  |          |           | 374013        | 382604        | 1           | Standard |
| Ag      | 107  | <b>0.078</b>  | ug/L  | 0.002    | 3         | 48            | 1050          | 3           | Standard |
| Ba      | 135  | <b>15.753</b> | ug/L  | 0.250    | 1         | 24            | 50398         | 0           | Standard |
| Ba      | 137  | <b>15.947</b> | ug/L  | 0.509    | 3         | 29            | 90520         | 1           | Standard |
| [> Tb   | 159  |               | ug/L  |          |           | 624828        | 670801        | 1           | Standard |
| Pb      | 208  | <b>6.748</b>  | ug/L  | 0.030    | 0         | 160           | 280575        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0157-08**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 00:21:47**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30779         | 41628         | 4           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4052820       | 4024701       | 0           | Standard |
| > Sc    | 45   |               | ug/L  |          |           | 457643        | 525565        | 1           | Standard |
| Cr      | 52   | <b>6.274</b>  | ug/L  | 0.214    | 3         | 14350         | 124598        | 1           | Standard |
| Cr      | 53   | <b>6.359</b>  | ug/L  | 0.085    | 1         | 118           | 12786         | 1           | Standard |
| Mn      | 55   | <b>58.061</b> | ug/L  | 0.413    | 0         | 638           | 1406461       | 2           | Standard |
| > Ge    | 72   |               | ug/L  |          |           | 26593         | 27621         | 1           | KED      |
| Ni      | 60   | <b>4.990</b>  | ug/L  | 0.158    | 3         | 24            | 5259          | 2           | KED      |
| Ni      | 62   | <b>5.155</b>  | ug/L  | 0.036    | 0         | 4             | 886           | 1           | KED      |
| Cu      | 63   | <b>16.273</b> | ug/L  | 0.255    | 1         | 39            | 49815         | 1           | KED      |
| Cu      | 65   | <b>16.380</b> | ug/L  | 0.576    | 3         | 28            | 24764         | 2           | KED      |
| Zn      | 66   | <b>24.675</b> | ug/L  | 0.604    | 2         | 24            | 9580          | 1           | KED      |
| Zn      | 67   | <b>22.541</b> | ug/L  | 0.633    | 2         | 3             | 1456          | 2           | KED      |
| As      | 75   | <b>2.095</b>  | ug/L  | 0.032    | 1         | 6             | 430           | 1           | KED      |
| Se      | 78   | <b>-0.028</b> | ug/L  | 0.232    | 826       | 20            | 21            | 24          | KED      |
| Y       | 89   |               | ug/L  |          |           | 265146        | 358092        | 1           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 67            | 18          | Standard |
| > In-1  | 115  |               | ug/L  |          |           | 7168          | 7494          | 0           | KED      |
| Cd      | 111  | <b>0.075</b>  | ug/L  | 0.010    | 12        | 3             | 20            | 10          | KED      |
| Cd      | 114  | <b>0.087</b>  | ug/L  | 0.011    | 12        | 3             | 50            | 11          | KED      |
| > In    | 115  |               | ug/L  |          |           | 374013        | 383317        | 1           | Standard |
| Ag      | 107  | <b>0.069</b>  | ug/L  | 0.003    | 4         | 48            | 935           | 3           | Standard |
| Ba      | 135  | <b>14.694</b> | ug/L  | 0.267    | 1         | 24            | 47115         | 3           | Standard |
| Ba      | 137  | <b>14.673</b> | ug/L  | 0.025    | 0         | 29            | 83480         | 1           | Standard |
| > Tb    | 159  |               | ug/L  |          |           | 624828        | 670083        | 2           | Standard |
| Pb      | 208  | <b>6.026</b>  | ug/L  | 0.152    | 2         | 160           | 250220        | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0157-10**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 00:26:31**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30779         | 43378         | 3           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4052820       | 4106283       | 2           | Standard |
| > Sc    | 45   |               | ug/L  |          |           | 457643        | 528331        | 2           | Standard |
| Cr      | 52   | <b>5.822</b>  | ug/L  | 0.156    | 2         | 14350         | 117403        | 0           | Standard |
| Cr      | 53   | <b>6.069</b>  | ug/L  | 0.213    | 3         | 118           | 12267         | 1           | Standard |
| Mn      | 55   | <b>55.965</b> | ug/L  | 1.783    | 3         | 638           | 1362057       | 0           | Standard |
| > Ge    | 72   |               | ug/L  |          |           | 26593         | 27935         | 1           | KED      |
| Ni      | 60   | <b>4.742</b>  | ug/L  | 0.121    | 2         | 24            | 5058          | 3           | KED      |
| Ni      | 62   | <b>4.836</b>  | ug/L  | 0.264    | 5         | 4             | 841           | 5           | KED      |
| Cu      | 63   | <b>10.979</b> | ug/L  | 0.150    | 1         | 39            | 34009         | 2           | KED      |
| Cu      | 65   | <b>11.025</b> | ug/L  | 0.090    | 0         | 28            | 16874         | 1           | KED      |
| Zn      | 66   | <b>24.132</b> | ug/L  | 0.225    | 0         | 24            | 9478          | 0           | KED      |
| Zn      | 67   | <b>24.189</b> | ug/L  | 0.440    | 1         | 3             | 1581          | 2           | KED      |
| As      | 75   | <b>2.255</b>  | ug/L  | 0.129    | 5         | 6             | 467           | 5           | KED      |
| Se      | 78   | <b>0.117</b>  | ug/L  | 0.016    | 13        | 20            | 24            | 2           | KED      |
| Y       | 89   |               | ug/L  |          |           | 265146        | 359062        | 0           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 59            | 11          | Standard |
| > In-1  | 115  |               | ug/L  |          |           | 7168          | 7669          | 3           | KED      |
| Cd      | 111  | <b>0.054</b>  | ug/L  | 0.035    | 64        | 3             | 16            | 46          | KED      |
| Cd      | 114  | <b>0.083</b>  | ug/L  | 0.004    | 4         | 3             | 49            | 7           | KED      |
| > In    | 115  |               | ug/L  |          |           | 374013        | 384704        | 1           | Standard |
| Ag      | 107  | <b>0.074</b>  | ug/L  | 0.003    | 4         | 48            | 994           | 5           | Standard |
| Ba      | 135  | <b>14.972</b> | ug/L  | 0.265    | 1         | 24            | 48163         | 0           | Standard |
| Ba      | 137  | <b>14.749</b> | ug/L  | 0.364    | 2         | 29            | 84191         | 0           | Standard |
| > Tb    | 159  |               | ug/L  |          |           | 624828        | 665886        | 1           | Standard |
| Pb      | 208  | <b>6.488</b>  | ug/L  | 0.062    | 0         | 160           | 267760        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0157-12**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 00:31:15**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30779         | 43216         | 3           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4052820       | 4035076       | 0           | Standard |
| [> Sc   | 45   |               | ug/L  |          |           | 457643        | 545867        | 1           | Standard |
| Cr      | 52   | <b>6.463</b>  | ug/L  | 0.029    | 0         | 14350         | 132827        | 1           | Standard |
| Cr      | 53   | <b>6.739</b>  | ug/L  | 0.247    | 3         | 118           | 14060         | 2           | Standard |
| Mn      | 55   | <b>67.921</b> | ug/L  | 1.698    | 2         | 638           | 1708144       | 1           | Standard |
| [> Ge   | 72   |               | ug/L  |          |           | 26593         | 28190         | 2           | KED      |
| Ni      | 60   | <b>5.221</b>  | ug/L  | 0.060    | 1         | 24            | 5616          | 2           | KED      |
| Ni      | 62   | <b>5.263</b>  | ug/L  | 0.189    | 3         | 4             | 923           | 5           | KED      |
| Cu      | 63   | <b>12.211</b> | ug/L  | 0.075    | 0         | 39            | 38163         | 2           | KED      |
| Cu      | 65   | <b>11.961</b> | ug/L  | 0.522    | 4         | 28            | 18455         | 1           | KED      |
| Zn      | 66   | <b>24.425</b> | ug/L  | 0.837    | 3         | 24            | 9678          | 2           | KED      |
| Zn      | 67   | <b>24.498</b> | ug/L  | 0.366    | 1         | 3             | 1615          | 1           | KED      |
| As      | 75   | <b>2.565</b>  | ug/L  | 0.046    | 1         | 6             | 535           | 2           | KED      |
| [ Se    | 78   | <b>0.125</b>  | ug/L  | 0.204    | 164       | 20            | 25            | 16          | KED      |
| Y       | 89   |               | ug/L  |          |           | 265146        | 369718        | 2           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 63            | 12          | Standard |
| [> In-1 | 115  |               | ug/L  |          |           | 7168          | 6728          | 8           | KED      |
| Cd      | 111  | <b>0.126</b>  | ug/L  | 0.021    | 16        | 3             | 28            | 16          | KED      |
| [ Cd    | 114  | <b>0.122</b>  | ug/L  | 0.017    | 13        | 3             | 62            | 8           | KED      |
| [> In   | 115  |               | ug/L  |          |           | 374013        | 381658        | 1           | Standard |
| Ag      | 107  | <b>0.096</b>  | ug/L  | 0.006    | 6         | 48            | 1272          | 4           | Standard |
| Ba      | 135  | <b>19.481</b> | ug/L  | 0.533    | 2         | 24            | 62157         | 1           | Standard |
| [ Ba    | 137  | <b>19.570</b> | ug/L  | 0.511    | 2         | 29            | 110819        | 1           | Standard |
| [> Tb   | 159  |               | ug/L  |          |           | 624828        | 668673        | 0           | Standard |
| [ Pb    | 208  | <b>8.585</b>  | ug/L  | 0.061    | 0         | 160           | 355766        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0157-13**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 00:35:59**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30779         | 43634         | 3           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4052820       | 4015585       | 1           | Standard |
| [> Sc   | 45   |               | ug/L  |          |           | 457643        | 532366        | 0           | Standard |
| Cr      | 52   | <b>6.564</b>  | ug/L  | 0.077    | 1         | 14350         | 131308        | 1           | Standard |
| Cr      | 53   | <b>6.603</b>  | ug/L  | 0.020    | 0         | 118           | 13445         | 0           | Standard |
| Mn      | 55   | <b>83.961</b> | ug/L  | 3.262    | 3         | 638           | 2059439       | 3           | Standard |
| [> Ge   | 72   |               | ug/L  |          |           | 26593         | 27595         | 1           | KED      |
| Ni      | 60   | <b>5.132</b>  | ug/L  | 0.118    | 2         | 24            | 5403          | 0           | KED      |
| Ni      | 62   | <b>5.198</b>  | ug/L  | 0.238    | 4         | 4             | 892           | 4           | KED      |
| Cu      | 63   | <b>13.776</b> | ug/L  | 0.362    | 2         | 39            | 42133         | 1           | KED      |
| Cu      | 65   | <b>13.870</b> | ug/L  | 0.422    | 3         | 28            | 20955         | 1           | KED      |
| Zn      | 66   | <b>26.882</b> | ug/L  | 0.355    | 1         | 24            | 10427         | 1           | KED      |
| Zn      | 67   | <b>26.148</b> | ug/L  | 0.279    | 1         | 3             | 1687          | 1           | KED      |
| As      | 75   | <b>3.450</b>  | ug/L  | 0.196    | 5         | 6             | 702           | 4           | KED      |
| [ Se    | 78   | <b>0.516</b>  | ug/L  | 0.243    | 46        | 20            | 33            | 17          | KED      |
| Y       | 89   |               | ug/L  |          |           | 265146        | 381848        | 2           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 71            | 8           | Standard |
| [> In-1 | 115  |               | ug/L  |          |           | 7168          | 7563          | 2           | KED      |
| Cd      | 111  | <b>0.135</b>  | ug/L  | 0.002    | 1         | 3             | 34            | 2           | KED      |
| [ Cd    | 114  | <b>0.133</b>  | ug/L  | 0.041    | 30        | 3             | 75            | 27          | KED      |
| [> In   | 115  |               | ug/L  |          |           | 374013        | 385172        | 1           | Standard |
| Ag      | 107  | <b>0.107</b>  | ug/L  | 0.008    | 7         | 48            | 1424          | 6           | Standard |
| Ba      | 135  | <b>24.441</b> | ug/L  | 0.528    | 2         | 24            | 78707         | 1           | Standard |
| [ Ba    | 137  | <b>24.827</b> | ug/L  | 0.311    | 1         | 29            | 141907        | 1           | Standard |
| [> Tb   | 159  |               | ug/L  |          |           | 624828        | 660783        | 0           | Standard |
| [ Pb    | 208  | <b>8.692</b>  | ug/L  | 0.070    | 0         | 160           | 355945        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0644-01**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 00:40:37**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD     | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|--------------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |              |           | 30779         | 52998         | 1           | Standard |
| Cl      | 37   |                | ug/L  |              |           | 4052820       | 4224368       | 1           | Standard |
| > Sc    | 45   |                | ug/L  |              |           | 457643        | 478303        | 0           | Standard |
| Cr      | 52   | <b>111.340</b> | ug/L  | 2.083        | 1         | 14350         | 1761595       | 1           | Standard |
| Cr      | 53   | <b>111.929</b> | ug/L  | 0.336        | 0         | 118           | 202789        | 0           | Standard |
| Mn      | 55   | <b>34.206</b>  | ug/L  | 0.761        | 2         | 638           | 754244        | 1           | Standard |
| > Ge    | 72   |                | ug/L  |              |           | 26593         | 26640         | 1           | KED      |
| Ni      | 60   | <b>0.874</b>   | ug/L  | 0.032        | 3         | 24            | 909           | 2           | KED      |
| Ni      | 62   | <b>0.978</b>   | ug/L  | 0.060        | 6         | 4             | 165           | 5           | KED      |
| Cu      | 63   | <b>0.974</b>   | ug/L  | 0.018        | 1         | 39            | 2912          | 2           | KED      |
| Cu      | 65   | <b>0.919</b>   | ug/L  | 0.046        | 4         | 28            | 1367          | 6           | KED      |
| Zn      | 66   | <b>42.992</b>  | ug/L  | 0.190        | 0         | 24            | 16085         | 0           | KED      |
| Zn      | 67   | <b>40.613</b>  | ug/L  | 2.313        | 5         | 3             | 2528          | 5           | KED      |
| As      | 75   | <b>0.113</b>   | ug/L  | 0.012        | 10        | 6             | 29            | 8           | KED      |
| Se      | 78   | <b>-0.267</b>  | ug/L  | 0.195        | 72        | 20            | 15            | 29          | KED      |
| Y       | 89   |                | ug/L  |              |           | 265146        | 270683        | 1           | Standard |
| Kr      | 83   |                | ug/L  |              |           | 48            | 35            | 8           | Standard |
| > In-1  | 115  |                | ug/L  |              |           | 7168          | 6910          | <b>9</b>    | KED      |
| Cd      | 111  | <b>0.357</b>   | ug/L  | <u>0.063</u> | 17        | 3             | 77            | 23          | KED      |
| Cd      | 114  | <b>0.346</b>   | ug/L  | <u>0.045</u> | 13        | 3             | 176           | 14          | KED      |
| > In    | 115  |                | ug/L  |              |           | 374013        | 376962        | 1           | Standard |
| Ag      | 107  | <b>0.072</b>   | ug/L  | 0.004        | 5         | 48            | 956           | 5           | Standard |
| Ba      | 135  | <b>1.771</b>   | ug/L  | 0.067        | 3         | 24            | 5604          | 3           | Standard |
| Ba      | 137  | <b>1.746</b>   | ug/L  | 0.021        | 1         | 29            | 9797          | 1           | Standard |
| > Tb    | 159  |                | ug/L  |              |           | 624828        | 647254        | 2           | Standard |
| Pb      | 208  | <b>0.073</b>   | ug/L  | 0.004        | 5         | 160           | 3097          | 4           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 00:45:16

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 31008         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4236857       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 457643        | 452366        | 1           | Standard |
| Cr      | 52   | -0.024     | ug/L  | 0.019    | 79        | 14350         | 13820         | 0           | Standard |
| Cr      | 53   | 0.006      | ug/L  | 0.003    | 47        | 118           | 127           | 4           | Standard |
| Mn      | 55   | 0.004      | ug/L  | 0.001    | 27        | 638           | 712           | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 26593         | 25995         | 3           | KED      |
| Ni      | 60   | -0.010     | ug/L  | 0.008    | 88        | 24            | 14            | 52          | KED      |
| Ni      | 62   | 0.016      | ug/L  | 0.029    | 183       | 4             | 6             | 68          | KED      |
| Cu      | 63   | 0.043      | ug/L  | 0.001    | 2         | 39            | 161           | 4           | KED      |
| Cu      | 65   | 0.029      | ug/L  | 0.005    | 17        | 28            | 69            | 6           | KED      |
| Zn      | 66   | 0.032      | ug/L  | 0.033    | 101       | 24            | 35            | 36          | KED      |
| Zn      | 67   | 0.096      | ug/L  | 0.054    | 56        | 3             | 9             | 34          | KED      |
| As      | 75   | -0.007     | ug/L  | 0.003    | 41        | 6             | 5             | 13          | KED      |
| Se      | 78   | -0.223     | ug/L  | 0.086    | 38        | 20            | 15            | 11          | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 254468        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 40            | 16          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7168          | 7328          | 1           | KED      |
| Cd      | 111  | 0.004      | ug/L  | 0.005    | 111       | 3             | 4             | 20          | KED      |
| Cd      | 114  | 0.007      | ug/L  | 0.008    | 107       | 3             | 6             | 57          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 374013        | 367115        | 2           | Standard |
| Ag      | 107  | -0.001     | ug/L  | 0.000    | 45        | 48            | 34            | 15          | Standard |
| Ba      | 135  | 0.007      | ug/L  | 0.003    | 38        | 24            | 46            | 16          | Standard |
| Ba      | 137  | 0.007      | ug/L  | 0.003    | 45        | 29            | 68            | 24          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 624828        | 607684        | 0           | Standard |
| Pb      | 208  | -0.001     | ug/L  | 0.000    | 8         | 160           | 116           | 2           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 00:50:00

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 31553         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4269216       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 457643        | 479915        | 2           | Standard |
| Cr      | 52   | 50.731     | ug/L  | 1.519    | 2         | 14350         | 813127        | 0           | Standard |
| Cr      | 53   | 51.111     | ug/L  | 1.979    | 3         | 118           | 92913         | 1           | Standard |
| Mn      | 55   | 50.278     | ug/L  | 1.263    | 2         | 638           | 1111728       | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 26593         | 26886         | 0           | KED      |
| Ni      | 60   | 48.120     | ug/L  | 1.115    | 2         | 24            | 49170         | 2           | KED      |
| Ni      | 62   | 50.051     | ug/L  | 0.968    | 1         | 4             | 8337          | 2           | KED      |
| Cu      | 63   | 49.209     | ug/L  | 0.216    | 0         | 39            | 146565        | 0           | KED      |
| Cu      | 65   | 49.394     | ug/L  | 0.513    | 1         | 28            | 72650         | 0           | KED      |
| Zn      | 66   | 49.920     | ug/L  | 0.667    | 1         | 24            | 18847         | 1           | KED      |
| Zn      | 67   | 50.881     | ug/L  | 1.238    | 2         | 3             | 3196          | 2           | KED      |
| As      | 75   | 50.126     | ug/L  | 0.530    | 1         | 6             | 9852          | 0           | KED      |
| [ Se    | 78   | 47.968     | ug/L  | 0.232    | 0         | 20            | 1078          | 0           | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 266397        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 46            | 6           | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7168          | 7410          | 2           | KED      |
| Cd      | 111  | 51.210     | ug/L  | 1.903    | 3         | 3             | 11204         | 1           | KED      |
| Cd      | 114  | 50.590     | ug/L  | 1.962    | 3         | 3             | 27228         | 1           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 374013        | 374814        | 2           | Standard |
| Ag      | 107  | 52.193     | ug/L  | 1.666    | 3         | 48            | 651904        | 2           | Standard |
| Ba      | 135  | 51.680     | ug/L  | 1.053    | 2         | 24            | 161901        | 0           | Standard |
| [ Ba    | 137  | 52.188     | ug/L  | 1.475    | 2         | 29            | 290139        | 0           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 624828        | 648916        | 1           | Standard |
| [ Pb    | 208  | 50.710     | ug/L  | 0.820    | 1         | 160           | 2038229       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 00:57:29

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 29764         | 4           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4164987       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 457643        | 463595        | 3           | Standard |
| Cr      | 52   | -0.044     | ug/L  | 0.029    | 67        | 14350         | 13868         | 2           | Standard |
| Cr      | 53   | 0.004      | ug/L  | 0.006    | 142       | 118           | 127           | 9           | Standard |
| Mn      | 55   | 0.004      | ug/L  | 0.004    | 99        | 638           | 742           | 15          | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 26593         | 26088         | 0           | KED      |
| Ni      | 60   | -0.008     | ug/L  | 0.009    | 113       | 24            | 16            | 54          | KED      |
| Ni      | 62   | 0.000      | ug/L  | 0.027    | 5646      | 4             | 4             | 98          | KED      |
| Cu      | 63   | 0.004      | ug/L  | 0.005    | 104       | 39            | 51            | 25          | KED      |
| Cu      | 65   | -0.002     | ug/L  | 0.003    | 151       | 28            | 25            | 15          | KED      |
| Zn      | 66   | -0.028     | ug/L  | 0.014    | 48        | 24            | 13            | 37          | KED      |
| Zn      | 67   | 0.022      | ug/L  | 0.048    | 217       | 3             | 5             | 57          | KED      |
| As      | 75   | -0.007     | ug/L  | 0.006    | 94        | 6             | 5             | 21          | KED      |
| Se      | 78   | -0.078     | ug/L  | 0.129    | 165       | 20            | 18            | 15          | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 262848        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 41            | 16          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7168          | 7392          | 3           | KED      |
| Cd      | 111  | -0.005     | ug/L  | 0.015    | 293       | 3             | 2             | 115         | KED      |
| Cd      | 114  | -0.002     | ug/L  | 0.004    | 142       | 3             | 1             | 104         | KED      |
| [> In   | 115  |            | ug/L  |          |           | 374013        | 365595        | 2           | Standard |
| Ag      | 107  | 0.004      | ug/L  | 0.006    | 141       | 48            | 97            | 73          | Standard |
| Ba      | 135  | 0.004      | ug/L  | 0.008    | 185       | 24            | 38            | 68          | Standard |
| Ba      | 137  | 0.005      | ug/L  | 0.006    | 128       | 29            | 54            | 61          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 624828        | 624641        | 2           | Standard |
| Pb      | 208  | 0.002      | ug/L  | 0.007    | 336       | 160           | 239           | 110         | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0591-01RE1**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 01:02:13**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 33504         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4246839       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 457643        | 475064        | 1           | Standard |
| Cr      | 52   | -0.033     | ug/L  | 0.022    | 65        | 14350         | 14377         | 0           | Standard |
| Cr      | 53   | 0.014      | ug/L  | 0.006    | 44        | 118           | 148           | 5           | Standard |
| Mn      | 55   | 36.397     | ug/L  | 1.153    | 3         | 638           | 796969        | 2           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 26593         | 27207         | 2           | KED      |
| Ni      | 60   | 0.060      | ug/L  | 0.008    | 12        | 24            | 87            | 7           | KED      |
| Ni      | 62   | 0.090      | ug/L  | 0.007    | 7         | 4             | 19            | 5           | KED      |
| Cu      | 63   | 0.026      | ug/L  | 0.001    | 2         | 39            | 118           | 2           | KED      |
| Cu      | 65   | 0.019      | ug/L  | 0.011    | 56        | 28            | 57            | 26          | KED      |
| Zn      | 66   | 0.468      | ug/L  | 0.022    | 4         | 24            | 203           | 6           | KED      |
| Zn      | 67   | 0.648      | ug/L  | 0.146    | 22        | 3             | 45            | 21          | KED      |
| As      | 75   | 0.076      | ug/L  | 0.033    | 43        | 6             | 22            | 30          | KED      |
| Se      | 78   | -0.339     | ug/L  | 0.090    | 26        | 20            | 13            | 15          | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 265351        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 51            | 22          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7168          | 7404          | 1           | KED      |
| Cd      | 111  | 0.010      | ug/L  | 0.011    | 115       | 3             | 6             | 39          | KED      |
| Cd      | 114  | 0.002      | ug/L  | 0.004    | 195       | 3             | 4             | 51          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 374013        | 374859        | 0           | Standard |
| Ag      | 107  | -0.000     | ug/L  | 0.001    | 9691      | 48            | 48            | 19          | Standard |
| Ba      | 135  | 0.891      | ug/L  | 0.011    | 1         | 24            | 2817          | 1           | Standard |
| Ba      | 137  | 0.905      | ug/L  | 0.007    | 0         | 29            | 5063          | 1           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 624828        | 639992        | 0           | Standard |
| Pb      | 208  | 0.016      | ug/L  | 0.001    | 7         | 160           | 785           | 5           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0527-06**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 01:06:51**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 55134         | 0           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 5044425       | 2           | Standard |
| Sc      | 45   |            | ug/L  |          |           | 457643        | 819671        | 1           | Standard |
| Cr      | 52   | -0.095     | ug/L  | 0.016    | 16        | 14350         | 23146         | 1           | Standard |
| Cr      | 53   | 0.668      | ug/L  | 0.037    | 5         | 118           | 2284          | 3           | Standard |
| Mn      | 55   | 6328.789   | ug/L  | 82.640   | 1         | 638           | 238956197     | 1           | Standard |
| Ge      | 72   |            | ug/L  |          |           | 26593         | 24272         | 1           | KED      |
| Ni      | 60   | 36.923     | ug/L  | 0.408    | 1         | 24            | 34062         | 1           | KED      |
| Ni      | 62   | 37.551     | ug/L  | 0.817    | 2         | 4             | 5647          | 1           | KED      |
| Cu      | 63   | 1.899      | ug/L  | 0.085    | 4         | 39            | 5141          | 5           | KED      |
| Cu      | 65   | 1.961      | ug/L  | 0.046    | 2         | 28            | 2628          | 1           | KED      |
| Zn      | 66   | 2.013      | ug/L  | 0.036    | 1         | 24            | 707           | 1           | KED      |
| Zn      | 67   | 4.940      | ug/L  | 0.367    | 7         | 3             | 283           | 6           | KED      |
| As      | 75   | 4.810      | ug/L  | 0.077    | 1         | 6             | 859           | 2           | KED      |
| Se      | 78   | -0.047     | ug/L  | 0.201    | 425       | 20            | 18            | 21          | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 290034        | 3           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 76            | 12          | Standard |
| In-1    | 115  |            | ug/L  |          |           | 7168          | 6694          | 0           | KED      |
| Cd      | 111  | 0.138      | ug/L  | 0.025    | 18        | 3             | 30            | 15          | KED      |
| Cd      | 114  | 0.119      | ug/L  | 0.016    | 13        | 3             | 60            | 12          | KED      |
| In      | 115  |            | ug/L  |          |           | 374013        | 351203        | 1           | Standard |
| Ag      | 107  | 0.002      | ug/L  | 0.000    | 25        | 48            | 64            | 7           | Standard |
| Ba      | 135  | 43.523     | ug/L  | 0.458    | 1         | 24            | 127787        | 1           | Standard |
| Ba      | 137  | 43.970     | ug/L  | 0.547    | 1         | 29            | 229144        | 1           | Standard |
| Tb      | 159  |            | ug/L  |          |           | 624828        | 631825        | 0           | Standard |
| Pb      | 208  | 0.014      | ug/L  | 0.000    | 1         | 160           | 709           | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0527-02**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 01:11:35**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 45765         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4876344       | 1           | Standard |
| > Sc    | 45   |            | ug/L  |          |           | 457643        | 851039        | 1           | Standard |
| Cr      | 52   | 5.499      | ug/L  | 0.045    | 0         | 14350         | 180185        | 1           | Standard |
| Cr      | 53   | 7.089      | ug/L  | 0.037    | 0         | 118           | 23059         | 1           | Standard |
| Mn      | 55   | 3.281      | ug/L  | 0.037    | 1         | 638           | 129801        | 1           | Standard |
| > Ge    | 72   |            | ug/L  |          |           | 26593         | 26310         | 1           | KED      |
| Ni      | 60   | 7.678      | ug/L  | 0.116    | 1         | 24            | 7698          | 2           | KED      |
| Ni      | 62   | 8.100      | ug/L  | 0.428    | 5         | 4             | 1323          | 4           | KED      |
| Cu      | 63   | 0.238      | ug/L  | 0.008    | 3         | 39            | 733           | 3           | KED      |
| Cu      | 65   | 0.228      | ug/L  | 0.011    | 4         | 28            | 355           | 3           | KED      |
| Zn      | 66   | 6.091      | ug/L  | 0.193    | 3         | 24            | 2270          | 2           | KED      |
| Zn      | 67   | 7.673      | ug/L  | 0.568    | 7         | 3             | 474           | 7           | KED      |
| As      | 75   | 0.516      | ug/L  | 0.006    | 1         | 6             | 106           | 1           | KED      |
| Se      | 78   | -0.022     | ug/L  | 0.124    | 577       | 20            | 20            | 14          | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 289546        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 46            | 23          | Standard |
| > In-1  | 115  |            | ug/L  |          |           | 7168          | 7306          | 2           | KED      |
| Cd      | 111  | 0.031      | ug/L  | 0.008    | 26        | 3             | 10            | 15          | KED      |
| Cd      | 114  | 0.033      | ug/L  | 0.007    | 22        | 3             | 20            | 17          | KED      |
| > In    | 115  |            | ug/L  |          |           | 374013        | 371366        | 0           | Standard |
| Ag      | 107  | 0.004      | ug/L  | 0.001    | 28        | 48            | 96            | 13          | Standard |
| Ba      | 135  | 22.307     | ug/L  | 0.904    | 4         | 24            | 69262         | 3           | Standard |
| Ba      | 137  | 22.064     | ug/L  | 0.304    | 1         | 29            | 121598        | 0           | Standard |
| > Tb    | 159  |            | ug/L  |          |           | 624828        | 653381        | 2           | Standard |
| Pb      | 208  | 0.028      | ug/L  | 0.002    | 6         | 160           | 1285          | 3           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0527-04**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 01:16:18**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 73187         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4299665       | 2           | Standard |
| Sc      | 45   |            | ug/L  |          |           | 457643        | 757329        | 0           | Standard |
| Cr      | 52   | 1.135      | ug/L  | 0.024    | 2         | 14350         | 51935         | 0           | Standard |
| Cr      | 53   | 1.472      | ug/L  | 0.014    | 0         | 118           | 4417          | 0           | Standard |
| Mn      | 55   | 28447.966  | ug/L  | 782.508  | 2         | 638           | 992483980     | 3           | Standard |
| Ge      | 72   |            | ug/L  |          |           | 26593         | 20969         | 1           | KED      |
| Ni      | 60   | 34.005     | ug/L  | 1.073    | 3         | 24            | 27098         | 2           | KED      |
| Ni      | 62   | 34.232     | ug/L  | 1.626    | 4         | 4             | 4447          | 3           | KED      |
| Cu      | 63   | 4.089      | ug/L  | 0.007    | 0         | 39            | 9527          | 1           | KED      |
| Cu      | 65   | 4.029      | ug/L  | 0.132    | 3         | 28            | 4642          | 2           | KED      |
| Zn      | 66   | 7.765      | ug/L  | 0.172    | 2         | 24            | 2302          | 2           | KED      |
| Zn      | 67   | 11.763     | ug/L  | 0.481    | 4         | 3             | 578           | 2           | KED      |
| As      | 75   | 0.573      | ug/L  | 0.012    | 2         | 6             | 93            | 0           | KED      |
| Se      | 78   | 0.312      | ug/L  | 0.240    | 77        | 20            | 21            | 18          | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 395529        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 84            | 5           | Standard |
| In-1    | 115  |            | ug/L  |          |           | 7168          | 6262          | 2           | KED      |
| Cd      | 111  | 0.489      | ug/L  | 0.030    | 6         | 3             | 93            | 3           | KED      |
| Cd      | 114  | 0.413      | ug/L  | 0.053    | 12        | 3             | 190           | 11          | KED      |
| In      | 115  |            | ug/L  |          |           | 374013        | 317527        | 1           | Standard |
| Ag      | 107  | 0.006      | ug/L  | 0.001    | 14        | 48            | 108           | 7           | Standard |
| Ba      | 135  | 103.669    | ug/L  | 2.622    | 2         | 24            | 275116        | 1           | Standard |
| Ba      | 137  | 101.715    | ug/L  | 2.050    | 2         | 29            | 479128        | 0           | Standard |
| Tb      | 159  |            | ug/L  |          |           | 624828        | 589884        | 0           | Standard |
| Pb      | 208  | 0.045      | ug/L  | 0.000    | 1         | 160           | 1781          | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0527-08**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 01:20:56**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 67071         | 0           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4523889       | 1           | Standard |
| Sc      | 45   |            | ug/L  |          |           | 457643        | 974889        | 1           | Standard |
| Cr      | 52   | -0.073     | ug/L  | 0.015    | 20        | 14350         | 28236         | 0           | Standard |
| Cr      | 53   | 0.551      | ug/L  | 0.022    | 4         | 118           | 2284          | 2           | Standard |
| Mn      | 55   | 1374.606   | ug/L  | 21.900   | 1         | 638           | 61724706      | 0           | Standard |
| Ge      | 72   |            | ug/L  |          |           | 26593         | 24472         | 2           | KED      |
| Ni      | 60   | 55.596     | ug/L  | 2.359    | 4         | 24            | 51667         | 2           | KED      |
| Ni      | 62   | 55.630     | ug/L  | 2.864    | 5         | 4             | 8427          | 3           | KED      |
| Cu      | 63   | 4.858      | ug/L  | 0.086    | 1         | 39            | 13202         | 2           | KED      |
| Cu      | 65   | 4.797      | ug/L  | 0.258    | 5         | 28            | 6440          | 3           | KED      |
| Zn      | 66   | 3.940      | ug/L  | 0.074    | 1         | 24            | 1374          | 4           | KED      |
| Zn      | 67   | 8.851      | ug/L  | 0.467    | 5         | 3             | 508           | 2           | KED      |
| As      | 75   | 1.100      | ug/L  | 0.080    | 7         | 6             | 202           | 5           | KED      |
| Se      | 78   | 0.137      | ug/L  | 0.179    | 130       | 20            | 21            | 14          | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 294772        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 66            | 2           | Standard |
| In-1    | 115  |            | ug/L  |          |           | 7168          | 6774          | 0           | KED      |
| Cd      | 111  | 0.065      | ug/L  | 0.028    | 43        | 3             | 16            | 33          | KED      |
| Cd      | 114  | 0.090      | ug/L  | 0.020    | 22        | 3             | 47            | 21          | KED      |
| In      | 115  |            | ug/L  |          |           | 374013        | 358286        | 1           | Standard |
| Ag      | 107  | 0.004      | ug/L  | 0.001    | 11        | 48            | 99            | 7           | Standard |
| Ba      | 135  | 79.457     | ug/L  | 0.473    | 0         | 24            | 238001        | 1           | Standard |
| Ba      | 137  | 79.593     | ug/L  | 0.110    | 0         | 29            | 423145        | 0           | Standard |
| Tb      | 159  |            | ug/L  |          |           | 624828        | 639096        | 0           | Standard |
| Pb      | 208  | 0.084      | ug/L  | 0.001    | 1         | 160           | 3500          | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0527-10**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 01:25:34**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 46862         | 4           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4572665       | 1           | Standard |
| Sc      | 45   |            | ug/L  |          |           | 457643        | 915248        | 0           | Standard |
| Cr      | 52   | -0.135     | ug/L  | 0.018    | 13        | 14350         | 24652         | 1           | Standard |
| Cr      | 53   | 0.667      | ug/L  | 0.013    | 1         | 118           | 2547          | 1           | Standard |
| Mn      | 55   | 6229.371   | ug/L  | 129.112  | 2         | 638           | 262614055     | 1           | Standard |
| Ge      | 72   |            | ug/L  |          |           | 26593         | 25312         | 2           | KED      |
| Ni      | 60   | 8.557      | ug/L  | 0.473    | 5         | 24            | 8243          | 2           | KED      |
| Ni      | 62   | 8.645      | ug/L  | 0.494    | 5         | 4             | 1358          | 3           | KED      |
| Cu      | 63   | 0.432      | ug/L  | 0.007    | 1         | 39            | 1248          | 4           | KED      |
| Cu      | 65   | 0.418      | ug/L  | 0.007    | 1         | 28            | 606           | 2           | KED      |
| Zn      | 66   | 2.917      | ug/L  | 0.125    | 4         | 24            | 1059          | 6           | KED      |
| Zn      | 67   | 4.286      | ug/L  | 0.402    | 9         | 3             | 256           | 7           | KED      |
| As      | 75   | 3.637      | ug/L  | 0.076    | 2         | 6             | 678           | 0           | KED      |
| Se      | 78   | -0.160     | ug/L  | 0.028    | 17        | 20            | 16            | 1           | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 293842        | 4           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 60            | 6           | Standard |
| In-1    | 115  |            | ug/L  |          |           | 7168          | 7242          | 3           | KED      |
| Cd      | 111  | 0.012      | ug/L  | 0.007    | 56        | 3             | 6             | 22          | KED      |
| Cd      | 114  | 0.016      | ug/L  | 0.007    | 42        | 3             | 11            | 30          | KED      |
| In      | 115  |            | ug/L  |          |           | 374013        | 369140        | 0           | Standard |
| Ag      | 107  | 0.004      | ug/L  | 0.000    | 11        | 48            | 99            | 5           | Standard |
| Ba      | 135  | 20.368     | ug/L  | 0.117    | 0         | 24            | 62873         | 0           | Standard |
| Ba      | 137  | 19.781     | ug/L  | 0.306    | 1         | 29            | 108372        | 1           | Standard |
| Tb      | 159  |            | ug/L  |          |           | 624828        | 662772        | 0           | Standard |
| Pb      | 208  | 0.021      | ug/L  | 0.001    | 6         | 160           | 1029          | 5           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0527-12**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 01:30:12**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 70795         | 3           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4259951       | 0           | Standard |
| Sc      | 45   |            | ug/L  |          |           | 457643        | 742003        | 1           | Standard |
| Cr      | 52   | 0.889      | ug/L  | 0.001    | 0         | 14350         | 44892         | 1           | Standard |
| Cr      | 53   | 1.226      | ug/L  | 0.039    | 3         | 118           | 3636          | 1           | Standard |
| Mn      | 55   | 28806.114  | ug/L  | 357.786  | 1         | 638           | 984467528     | 0           | Standard |
| Ge      | 72   |            | ug/L  |          |           | 26593         | 20642         | 1           | KED      |
| Ni      | 60   | 34.822     | ug/L  | 0.296    | 0         | 24            | 27321         | 1           | KED      |
| Ni      | 62   | 35.907     | ug/L  | 0.628    | 1         | 4             | 4593          | 2           | KED      |
| Cu      | 63   | 4.328      | ug/L  | 0.104    | 2         | 39            | 9922          | 1           | KED      |
| Cu      | 65   | 4.336      | ug/L  | 0.191    | 4         | 28            | 4915          | 3           | KED      |
| Zn      | 66   | 7.525      | ug/L  | 0.265    | 3         | 24            | 2196          | 3           | KED      |
| Zn      | 67   | 13.002     | ug/L  | 0.225    | 1         | 3             | 629           | 1           | KED      |
| As      | 75   | 0.548      | ug/L  | 0.055    | 9         | 6             | 88            | 10          | KED      |
| Se      | 78   | 0.223      | ug/L  | 0.271    | 121       | 20            | 20            | 23          | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 393924        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 91            | 11          | Standard |
| In-1    | 115  |            | ug/L  |          |           | 7168          | 6222          | 1           | KED      |
| Cd      | 111  | 0.495      | ug/L  | 0.013    | 2         | 3             | 94            | 2           | KED      |
| Cd      | 114  | 0.437      | ug/L  | 0.035    | 8         | 3             | 199           | 6           | KED      |
| In      | 115  |            | ug/L  |          |           | 374013        | 321338        | 1           | Standard |
| Ag      | 107  | 0.007      | ug/L  | 0.003    | 43        | 48            | 111           | 27          | Standard |
| Ba      | 135  | 101.063    | ug/L  | 2.359    | 2         | 24            | 271428        | 0           | Standard |
| Ba      | 137  | 101.590    | ug/L  | 1.717    | 1         | 29            | 484304        | 0           | Standard |
| Tb      | 159  |            | ug/L  |          |           | 624828        | 589661        | 0           | Standard |
| Pb      | 208  | 0.049      | ug/L  | 0.001    | 2         | 160           | 1941          | 2           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0094-DUP1**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 01:35:20**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 73060         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4273144       | 1           | Standard |
| Sc      | 45   |            | ug/L  |          |           | 457643        | 756930        | 1           | Standard |
| Cr      | 52   | 0.897      | ug/L  | 0.034    | 3         | 14350         | 45999         | 0           | Standard |
| Cr      | 53   | 1.210      | ug/L  | 0.042    | 3         | 118           | 3661          | 2           | Standard |
| Mn      | 55   | 28930.101  | ug/L  | 463.937  | 1         | 638           | 1008573660    | 0           | Standard |
| Ge      | 72   |            | ug/L  |          |           | 26593         | 20288         | 0           | KED      |
| Ni      | 60   | 34.628     | ug/L  | 0.186    | 0         | 24            | 26704         | 0           | KED      |
| Ni      | 62   | 35.011     | ug/L  | 0.940    | 2         | 4             | 4401          | 2           | KED      |
| Cu      | 63   | 4.946      | ug/L  | 0.047    | 0         | 39            | 11142         | 1           | KED      |
| Cu      | 65   | 4.903      | ug/L  | 0.118    | 2         | 28            | 5461          | 2           | KED      |
| Zn      | 66   | 6.666      | ug/L  | 0.299    | 4         | 24            | 1915          | 4           | KED      |
| Zn      | 67   | 10.868     | ug/L  | 1.415    | 13        | 3             | 517           | 12          | KED      |
| As      | 75   | 0.678      | ug/L  | 0.039    | 5         | 6             | 105           | 5           | KED      |
| Se      | 78   | 0.591      | ug/L  | 0.174    | 29        | 20            | 25            | 11          | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 405872        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 106           | 9           | Standard |
| In-1    | 115  |            | ug/L  |          |           | 7168          | 6101          | 2           | KED      |
| Cd      | 111  | 0.533      | ug/L  | 0.046    | 8         | 3             | 99            | 9           | KED      |
| Cd      | 114  | 0.446      | ug/L  | 0.039    | 8         | 3             | 200           | 10          | KED      |
| In      | 115  |            | ug/L  |          |           | 374013        | 319772        | 1           | Standard |
| Ag      | 107  | 0.013      | ug/L  | 0.001    | 11        | 48            | 181           | 8           | Standard |
| Ba      | 135  | 101.662    | ug/L  | 1.266    | 1         | 24            | 271754        | 0           | Standard |
| Ba      | 137  | 101.324    | ug/L  | 2.499    | 2         | 29            | 480699        | 1           | Standard |
| Tb      | 159  |            | ug/L  |          |           | 624828        | 589061        | 0           | Standard |
| Pb      | 208  | 0.057      | ug/L  | 0.002    | 3         | 160           | 2214          | 2           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0094-MS1**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 01:41:28**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 71460         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4263838       | 1           | Standard |
| Sc      | 45   |            | ug/L  |          |           | 457643        | 773381        | 1           | Standard |
| Cr      | 52   | 16.723     | ug/L  | 0.236    | 1         | 14350         | 448389        | 0           | Standard |
| Cr      | 53   | 16.941     | ug/L  | 0.344    | 2         | 118           | 49791         | 1           | Standard |
| Mn      | 55   | 28170.447  | ug/L  | 610.407  | 2         | 638           | 1003461438    | 1           | Standard |
| Ge      | 72   |            | ug/L  |          |           | 26593         | 19903         | 1           | KED      |
| Ni      | 60   | 60.364     | ug/L  | 0.143    | 0         | 24            | 45652         | 0           | KED      |
| Ni      | 62   | 61.486     | ug/L  | 0.989    | 1         | 4             | 7581          | 1           | KED      |
| Cu      | 63   | 29.131     | ug/L  | 0.862    | 2         | 39            | 64225         | 1           | KED      |
| Cu      | 65   | 29.149     | ug/L  | 0.626    | 2         | 28            | 31743         | 1           | KED      |
| Zn      | 66   | 70.606     | ug/L  | 0.566    | 0         | 24            | 19724         | 0           | KED      |
| Zn      | 67   | 69.850     | ug/L  | 2.000    | 2         | 3             | 3246          | 2           | KED      |
| As      | 75   | 23.655     | ug/L  | 0.558    | 2         | 6             | 3444          | 1           | KED      |
| Se      | 78   | 61.657     | ug/L  | 1.471    | 2         | 20            | 1021          | 1           | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 403944        | 3           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 93            | 22          | Standard |
| In-1    | 115  |            | ug/L  |          |           | 7168          | 5903          | 4           | KED      |
| Cd      | 111  | 22.063     | ug/L  | 0.591    | 2         | 3             | 3847          | 2           | KED      |
| Cd      | 114  | 21.653     | ug/L  | 0.713    | 3         | 3             | 9284          | 1           | KED      |
| In      | 115  |            | ug/L  |          |           | 374013        | 314008        | 1           | Standard |
| Ag      | 107  | 18.937     | ug/L  | 0.059    | 0         | 48            | 198228        | 1           | Standard |
| Ba      | 135  | 130.147    | ug/L  | 1.731    | 1         | 24            | 341621        | 1           | Standard |
| Ba      | 137  | 128.662    | ug/L  | 2.390    | 1         | 29            | 599352        | 0           | Standard |
| Tb      | 159  |            | ug/L  |          |           | 624828        | 588412        | 1           | Standard |
| Pb      | 208  | 25.131     | ug/L  | 0.285    | 1         | 160           | 916076        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 01:46:07

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 33219         | 3           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4390119       | 0           | Standard |
| > Sc    | 45   |            | ug/L  |          |           | 457643        | 475202        | 0           | Standard |
| Cr      | 52   | 0.005      | ug/L  | 0.011    | 237       | 14350         | 14973         | 1           | Standard |
| Cr      | 53   | 0.029      | ug/L  | 0.008    | 26        | 118           | 175           | 8           | Standard |
| Mn      | 55   | 0.857      | ug/L  | 0.113    | 13        | 638           | 19407         | 12          | Standard |
| > Ge    | 72   |            | ug/L  |          |           | 26593         | 25856         | 0           | KED      |
| Ni      | 60   | -0.014     | ug/L  | 0.002    | 15        | 24            | 10            | 21          | KED      |
| Ni      | 62   | 0.005      | ug/L  | 0.018    | 384       | 4             | 5             | 57          | KED      |
| Cu      | 63   | 0.037      | ug/L  | 0.001    | 1         | 39            | 144           | 1           | KED      |
| Cu      | 65   | 0.034      | ug/L  | 0.009    | 27        | 28            | 75            | 17          | KED      |
| Zn      | 66   | 0.089      | ug/L  | 0.039    | 43        | 24            | 55            | 25          | KED      |
| Zn      | 67   | 0.096      | ug/L  | 0.032    | 32        | 3             | 9             | 20          | KED      |
| As      | 75   | -0.005     | ug/L  | 0.005    | 106       | 6             | 5             | 16          | KED      |
| Se      | 78   | -0.274     | ug/L  | 0.066    | 24        | 20            | 14            | 9           | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 271170        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 36            | 20          | Standard |
| > In-1  | 115  |            | ug/L  |          |           | 7168          | 6980          | 3           | KED      |
| Cd      | 111  | 0.078      | ug/L  | 0.106    | 135       | 3             | 20            | 112         | KED      |
| Cd      | 114  | 0.060      | ug/L  | 0.081    | 135       | 3             | 34            | 125         | KED      |
| > In    | 115  |            | ug/L  |          |           | 374013        | 371570        | 3           | Standard |
| Ag      | 107  | 0.030      | ug/L  | 0.002    | 7         | 48            | 419           | 4           | Standard |
| Ba      | 135  | 0.009      | ug/L  | 0.002    | 26        | 24            | 52            | 11          | Standard |
| Ba      | 137  | 0.012      | ug/L  | 0.005    | 36        | 29            | 97            | 24          | Standard |
| > Tb    | 159  |            | ug/L  |          |           | 624828        | 633669        | 0           | Standard |
| Pb      | 208  | -0.000     | ug/L  | 0.000    | 128       | 160           | 157           | 4           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 01:50:52

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 33795         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4289967       | 2           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 457643        | 492079        | 2           | Standard |
| Cr      | 52   | 52.470     | ug/L  | 1.655    | 3         | 14350         | 861942        | 1           | Standard |
| Cr      | 53   | 52.538     | ug/L  | 0.329    | 0         | 118           | 97987         | 1           | Standard |
| Mn      | 55   | 52.631     | ug/L  | 0.657    | 1         | 638           | 1193584       | 2           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 26593         | 26446         | 2           | KED      |
| Ni      | 60   | 49.057     | ug/L  | 0.947    | 1         | 24            | 49296         | 2           | KED      |
| Ni      | 62   | 48.967     | ug/L  | 1.962    | 4         | 4             | 8018          | 1           | KED      |
| Cu      | 63   | 49.286     | ug/L  | 0.827    | 1         | 39            | 144393        | 2           | KED      |
| Cu      | 65   | 50.437     | ug/L  | 0.844    | 1         | 28            | 72955         | 0           | KED      |
| Zn      | 66   | 50.274     | ug/L  | 0.604    | 1         | 24            | 18667         | 1           | KED      |
| Zn      | 67   | 49.520     | ug/L  | 1.877    | 3         | 3             | 3058          | 2           | KED      |
| As      | 75   | 49.424     | ug/L  | 1.092    | 2         | 6             | 9553          | 0           | KED      |
| [ Se    | 78   | 47.304     | ug/L  | 0.515    | 1         | 20            | 1046          | 1           | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 281638        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 48            | 23          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7168          | 7087          | 3           | KED      |
| Cd      | 111  | 50.882     | ug/L  | 1.523    | 2         | 3             | 10647         | 0           | KED      |
| Cd      | 114  | 50.358     | ug/L  | 2.294    | 4         | 3             | 25915         | 1           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 374013        | 370898        | 1           | Standard |
| Ag      | 107  | 51.112     | ug/L  | 0.786    | 1         | 48            | 631959        | 2           | Standard |
| Ba      | 135  | 52.004     | ug/L  | 0.507    | 0         | 24            | 161245        | 0           | Standard |
| [ Ba    | 137  | 51.971     | ug/L  | 0.303    | 0         | 29            | 286036        | 1           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 624828        | 654781        | 0           | Standard |
| [ Pb    | 208  | 52.560     | ug/L  | 0.648    | 1         | 160           | 2131895       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 01:58:20

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 31628         | 0           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4193580       | 3           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 457643        | 481189        | 1           | Standard |
| Cr      | 52   | -0.036     | ug/L  | 0.032    | 88        | 14350         | 14508         | 2           | Standard |
| Cr      | 53   | 0.000      | ug/L  | 0.007    | 3519      | 118           | 125           | 9           | Standard |
| Mn      | 55   | 0.192      | ug/L  | 0.010    | 5         | 638           | 4926          | 3           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 26593         | 25850         | 1           | KED      |
| Ni      | 60   | -0.021     | ug/L  | 0.002    | 9         | 24            | 3             | 50          | KED      |
| Ni      | 62   | 0.001      | ug/L  | 0.007    | 886       | 4             | 4             | 24          | KED      |
| Cu      | 63   | 0.003      | ug/L  | 0.002    | 67        | 39            | 46            | 12          | KED      |
| Cu      | 65   | -0.004     | ug/L  | 0.002    | 53        | 28            | 21            | 13          | KED      |
| Zn      | 66   | -0.002     | ug/L  | 0.018    | 1055      | 24            | 22            | 28          | KED      |
| Zn      | 67   | 0.002      | ug/L  | 0.033    | 1590      | 3             | 3             | 50          | KED      |
| As      | 75   | -0.011     | ug/L  | 0.005    | 47        | 6             | 4             | 20          | KED      |
| Se      | 78   | -0.192     | ug/L  | 0.188    | 97        | 20            | 16            | 25          | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 264466        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 46            | 9           | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7168          | 6895          | 0           | KED      |
| Cd      | 111  | 0.004      | ug/L  | 0.007    | 187       | 3             | 4             | 32          | KED      |
| Cd      | 114  | -0.001     | ug/L  | 0.002    | 186       | 3             | 2             | 47          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 374013        | 369240        | 1           | Standard |
| Ag      | 107  | 0.036      | ug/L  | 0.001    | 2         | 48            | 490           | 3           | Standard |
| Ba      | 135  | -0.001     | ug/L  | 0.001    | 78        | 24            | 21            | 10          | Standard |
| Ba      | 137  | -0.001     | ug/L  | 0.001    | 166       | 29            | 26            | 22          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 624828        | 640435        | 0           | Standard |
| Pb      | 208  | -0.002     | ug/L  | 0.000    | 12        | 160           | 100           | 8           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0530-01**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 02:03:05**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30779         | 47934         | 0           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4052820       | 4036891       | 0           | Standard |
| > Sc    | 45   |               | ug/L  |          |           | 457643        | 542093        | 2           | Standard |
| Cr      | 52   | <b>1.038</b>  | ug/L  | 0.039    | 3         | 14350         | 35453         | 3           | Standard |
| Cr      | 53   | <b>1.257</b>  | ug/L  | 0.036    | 2         | 118           | 2720          | 2           | Standard |
| Mn      | 55   | <b>32.316</b> | ug/L  | 0.476    | 1         | 638           | 807554        | 0           | Standard |
| > Ge    | 72   |               | ug/L  |          |           | 26593         | 26501         | 1           | KED      |
| Ni      | 60   | <b>1.237</b>  | ug/L  | 0.021    | 1         | 24            | 1269          | 1           | KED      |
| Ni      | 62   | <b>1.312</b>  | ug/L  | 0.059    | 4         | 4             | 219           | 2           | KED      |
| Cu      | 63   | <b>1.584</b>  | ug/L  | 0.041    | 2         | 39            | 4685          | 1           | KED      |
| Cu      | 65   | <b>1.588</b>  | ug/L  | 0.046    | 2         | 28            | 2329          | 1           | KED      |
| Zn      | 66   | <b>3.259</b>  | ug/L  | 0.068    | 2         | 24            | 1235          | 3           | KED      |
| Zn      | 67   | <b>3.408</b>  | ug/L  | 0.064    | 1         | 3             | 214           | 3           | KED      |
| As      | 75   | <b>0.148</b>  | ug/L  | 0.035    | 23        | 6             | 35            | 17          | KED      |
| Se      | 78   | <b>-0.199</b> | ug/L  | 0.037    | 18        | 20            | 16            | 6           | KED      |
| Y       | 89   |               | ug/L  |          |           | 265146        | 309394        | 2           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 48            | 2           | Standard |
| > In-1  | 115  |               | ug/L  |          |           | 7168          | 7216          | 0           | KED      |
| Cd      | 111  | <b>0.004</b>  | ug/L  | 0.005    | 104       | 3             | 4             | 20          | KED      |
| Cd      | 114  | <b>0.016</b>  | ug/L  | 0.012    | 72        | 3             | 11            | 52          | KED      |
| > In    | 115  |               | ug/L  |          |           | 374013        | 379127        | 1           | Standard |
| Ag      | 107  | <b>0.038</b>  | ug/L  | 0.005    | 12        | 48            | 524           | 12          | Standard |
| Ba      | 135  | <b>6.542</b>  | ug/L  | 0.074    | 1         | 24            | 20758         | 1           | Standard |
| Ba      | 137  | <b>6.388</b>  | ug/L  | 0.119    | 1         | 29            | 35961         | 1           | Standard |
| > Tb    | 159  |               | ug/L  |          |           | 624828        | 671980        | 1           | Standard |
| Pb      | 208  | <b>4.665</b>  | ug/L  | 0.126    | 2         | 160           | 194303        | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0530-02**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 02:07:49**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 30779         | 42297         | 0           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4052820       | 4011806       | 2           | Standard |
| > Sc    | 45   |               | ug/L  |          |           | 457643        | 547268        | 0           | Standard |
| Cr      | 52   | <b>6.811</b>  | ug/L  | 0.030    | 0         | 14350         | 139424        | 1           | Standard |
| Cr      | 53   | <b>7.092</b>  | ug/L  | 0.105    | 1         | 118           | 14833         | 1           | Standard |
| Mn      | 55   | <b>66.484</b> | ug/L  | 0.644    | 0         | 638           | 1676838       | 1           | Standard |
| > Ge    | 72   |               | ug/L  |          |           | 26593         | 26830         | 1           | KED      |
| Ni      | 60   | <b>2.370</b>  | ug/L  | 0.131    | 5         | 24            | 2438          | 3           | KED      |
| Ni      | 62   | <b>2.243</b>  | ug/L  | 0.059    | 2         | 4             | 377           | 3           | KED      |
| Cu      | 63   | <b>3.668</b>  | ug/L  | 0.069    | 1         | 39            | 10940         | 3           | KED      |
| Cu      | 65   | <b>3.657</b>  | ug/L  | 0.134    | 3         | 28            | 5396          | 5           | KED      |
| Zn      | 66   | <b>5.047</b>  | ug/L  | 0.296    | 5         | 24            | 1922          | 4           | KED      |
| Zn      | 67   | <b>5.744</b>  | ug/L  | 0.483    | 8         | 3             | 363           | 6           | KED      |
| As      | 75   | <b>0.334</b>  | ug/L  | 0.031    | 9         | 6             | 72            | 9           | KED      |
| Se      | 78   | <b>-0.016</b> | ug/L  | 0.217    | 1389      | 20            | 20            | 22          | KED      |
| Y       | 89   |               | ug/L  |          |           | 265146        | 306360        | 1           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 48            | 49            | 30          | Standard |
| > In-1  | 115  |               | ug/L  |          |           | 7168          | 7272          | 0           | KED      |
| Cd      | 111  | <b>0.028</b>  | ug/L  | 0.005    | 17        | 3             | 9             | 11          | KED      |
| Cd      | 114  | <b>0.044</b>  | ug/L  | 0.021    | 48        | 3             | 26            | 43          | KED      |
| > In    | 115  |               | ug/L  |          |           | 374013        | 375730        | 0           | Standard |
| Ag      | 107  | <b>0.028</b>  | ug/L  | 0.003    | 9         | 48            | 395           | 7           | Standard |
| Ba      | 135  | <b>9.839</b>  | ug/L  | 0.086    | 0         | 24            | 30928         | 0           | Standard |
| Ba      | 137  | <b>9.666</b>  | ug/L  | 0.048    | 0         | 29            | 53917         | 0           | Standard |
| > Tb    | 159  |               | ug/L  |          |           | 624828        | 654928        | 1           | Standard |
| Pb      | 208  | <b>30.868</b> | ug/L  | 0.545    | 1         | 160           | 1252271       | 0           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0513-01**

Sample Dil Factor: **5**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 02:12:27**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 38649         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4250781       | 0           | Standard |
| > Sc    | 45   |            | ug/L  |          |           | 457643        | 497873        | 1           | Standard |
| Cr      | 52   | 0.020      | ug/L  | 0.003    | 12        | 14350         | 15942         | 1           | Standard |
| Cr      | 53   | 0.358      | ug/L  | 0.029    | 8         | 118           | 803           | 7           | Standard |
| Mn      | 55   | 48.052     | ug/L  | 0.551    | 1         | 638           | 1102662       | 1           | Standard |
| > Ge    | 72   |            | ug/L  |          |           | 26593         | 26095         | 0           | KED      |
| Ni      | 60   | 0.544      | ug/L  | 0.015    | 2         | 24            | 563           | 1           | KED      |
| Ni      | 62   | 0.519      | ug/L  | 0.045    | 8         | 4             | 88            | 7           | KED      |
| Cu      | 63   | 0.117      | ug/L  | 0.006    | 4         | 39            | 376           | 4           | KED      |
| Cu      | 65   | 0.093      | ug/L  | 0.012    | 13        | 28            | 160           | 10          | KED      |
| Zn      | 66   | 0.671      | ug/L  | 0.010    | 1         | 24            | 269           | 1           | KED      |
| Zn      | 67   | 0.763      | ug/L  | 0.124    | 16        | 3             | 50            | 14          | KED      |
| As      | 75   | 0.106      | ug/L  | 0.027    | 25        | 6             | 27            | 18          | KED      |
| Se      | 78   | -0.319     | ug/L  | 0.177    | 55        | 20            | 13            | 27          | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 279138        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 38            | 27          | Standard |
| > In-1  | 115  |            | ug/L  |          |           | 7168          | 7114          | 2           | KED      |
| Cd      | 111  | -0.007     | ug/L  | 0.005    | 73        | 3             | 2             | 49          | KED      |
| Cd      | 114  | 0.003      | ug/L  | 0.002    | 54        | 3             | 4             | 21          | KED      |
| > In    | 115  |            | ug/L  |          |           | 374013        | 374655        | 1           | Standard |
| Ag      | 107  | 0.023      | ug/L  | 0.003    | 13        | 48            | 340           | 10          | Standard |
| Ba      | 135  | 3.979      | ug/L  | 0.015    | 0         | 24            | 12485         | 1           | Standard |
| Ba      | 137  | 3.885      | ug/L  | 0.088    | 2         | 29            | 21620         | 1           | Standard |
| > Tb    | 159  |            | ug/L  |          |           | 624828        | 655302        | 1           | Standard |
| Pb      | 208  | 0.006      | ug/L  | 0.001    | 11        | 160           | 409           | 7           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0022-DUP3**

Sample Dil Factor: **5**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 02:17:11**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 37893         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4276340       | 4           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 457643        | 493333        | 1           | Standard |
| Cr      | 52   | 0.012      | ug/L  | 0.032    | 264       | 14350         | 15659         | 1           | Standard |
| Cr      | 53   | 0.329      | ug/L  | 0.003    | 0         | 118           | 741           | 1           | Standard |
| Mn      | 55   | 47.416     | ug/L  | 0.905    | 1         | 638           | 1077972       | 0           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 26593         | 26944         | 1           | KED      |
| Ni      | 60   | 0.507      | ug/L  | 0.025    | 4         | 24            | 543           | 4           | KED      |
| Ni      | 62   | 0.502      | ug/L  | 0.015    | 2         | 4             | 88            | 1           | KED      |
| Cu      | 63   | 0.096      | ug/L  | 0.010    | 10        | 39            | 326           | 8           | KED      |
| Cu      | 65   | 0.091      | ug/L  | 0.004    | 4         | 28            | 162           | 3           | KED      |
| Zn      | 66   | 0.698      | ug/L  | 0.011    | 1         | 24            | 288           | 0           | KED      |
| Zn      | 67   | 0.858      | ug/L  | 0.060    | 7         | 3             | 57            | 5           | KED      |
| As      | 75   | 0.120      | ug/L  | 0.015    | 12        | 6             | 30            | 10          | KED      |
| Se      | 78   | -0.405     | ug/L  | 0.055    | 13        | 20            | 12            | 11          | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 280281        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 33            | 16          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7168          | 7114          | 2           | KED      |
| Cd      | 111  | -0.006     | ug/L  | 0.003    | 42        | 3             | 2             | 21          | KED      |
| Cd      | 114  | 0.005      | ug/L  | 0.000    | 7         | 3             | 5             | 1           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 374013        | 375052        | 1           | Standard |
| Ag      | 107  | 0.020      | ug/L  | 0.001    | 5         | 48            | 304           | 4           | Standard |
| Ba      | 135  | 3.840      | ug/L  | 0.097    | 2         | 24            | 12060         | 1           | Standard |
| Ba      | 137  | 3.899      | ug/L  | 0.050    | 1         | 29            | 21723         | 0           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 624828        | 653302        | 1           | Standard |
| Pb      | 208  | 0.005      | ug/L  | 0.001    | 18        | 160           | 362           | 9           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0022-MS3**

Sample Dil Factor: **5**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 02:21:49**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 38405         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4321052       | 2           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 457643        | 499128        | 0           | Standard |
| Cr      | 52   | 5.181      | ug/L  | 0.062    | 1         | 14350         | 100460        | 0           | Standard |
| Cr      | 53   | 5.716      | ug/L  | 0.068    | 1         | 118           | 10929         | 0           | Standard |
| Mn      | 55   | 54.192     | ug/L  | 0.637    | 1         | 638           | 1246643       | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 26593         | 26050         | 1           | KED      |
| Ni      | 60   | 5.694      | ug/L  | 0.319    | 5         | 24            | 5655          | 3           | KED      |
| Ni      | 62   | 5.818      | ug/L  | 0.024    | 0         | 4             | 942           | 2           | KED      |
| Cu      | 63   | 5.318      | ug/L  | 0.038    | 0         | 39            | 15380         | 2           | KED      |
| Cu      | 65   | 5.415      | ug/L  | 0.120    | 2         | 28            | 7741          | 2           | KED      |
| Zn      | 66   | 18.164     | ug/L  | 0.590    | 3         | 24            | 6658          | 2           | KED      |
| Zn      | 67   | 17.888     | ug/L  | 1.103    | 6         | 3             | 1090          | 5           | KED      |
| As      | 75   | 5.588      | ug/L  | 0.174    | 3         | 6             | 1070          | 3           | KED      |
| Se      | 78   | 16.397     | ug/L  | 0.314    | 1         | 20            | 370           | 1           | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 278636        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 47            | 10          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7168          | 7251          | 2           | KED      |
| Cd      | 111  | 5.215      | ug/L  | 0.096    | 1         | 3             | 1120          | 2           | KED      |
| Cd      | 114  | 5.226      | ug/L  | 0.231    | 4         | 3             | 2755          | 3           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 374013        | 374232        | 0           | Standard |
| Ag      | 107  | 5.330      | ug/L  | 0.171    | 3         | 48            | 66538         | 3           | Standard |
| Ba      | 135  | 9.439      | ug/L  | 0.285    | 3         | 24            | 29550         | 2           | Standard |
| Ba      | 137  | 9.360      | ug/L  | 0.098    | 1         | 29            | 51999         | 0           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 624828        | 653422        | 1           | Standard |
| Pb      | 208  | 5.489      | ug/L  | 0.103    | 1         | 160           | 222283        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0539-01**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 02:27:57**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 44887         | 0           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4436280       | 1           | Standard |
| > Sc    | 45   |            | ug/L  |          |           | 457643        | 562620        | 2           | Standard |
| Cr      | 52   | -0.005     | ug/L  | 0.035    | 729       | 14350         | 17557         | 4           | Standard |
| Cr      | 53   | 0.152      | ug/L  | 0.004    | 2         | 118           | 470           | 3           | Standard |
| Mn      | 55   | 146.433    | ug/L  | 3.440    | 2         | 638           | 3795067       | 1           | Standard |
| > Ge    | 72   |            | ug/L  |          |           | 26593         | 24680         | 0           | KED      |
| Ni      | 60   | 0.171      | ug/L  | 0.016    | 9         | 24            | 182           | 8           | KED      |
| Ni      | 62   | 0.156      | ug/L  | 0.031    | 19        | 4             | 27            | 17          | KED      |
| Cu      | 63   | 0.078      | ug/L  | 0.017    | 22        | 39            | 250           | 19          | KED      |
| Cu      | 65   | 0.097      | ug/L  | 0.016    | 16        | 28            | 158           | 13          | KED      |
| Zn      | 66   | 0.510      | ug/L  | 0.032    | 6         | 24            | 198           | 5           | KED      |
| Zn      | 67   | 22.441     | ug/L  | 1.077    | 4         | 3             | 1295          | 4           | KED      |
| As      | 75   | 0.193      | ug/L  | 0.039    | 19        | 6             | 41            | 16          | KED      |
| Se      | 78   | -0.094     | ug/L  | 0.095    | 101       | 20            | 17            | 11          | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 272807        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 46            | 20          | Standard |
| > In-1  | 115  |            | ug/L  |          |           | 7168          | 6800          | 2           | KED      |
| Cd      | 111  | 0.011      | ug/L  | 0.013    | 119       | 3             | 5             | 44          | KED      |
| Cd      | 114  | 0.003      | ug/L  | 0.006    | 221       | 3             | 4             | 68          | KED      |
| > In    | 115  |            | ug/L  |          |           | 374013        | 355422        | 0           | Standard |
| Ag      | 107  | 0.018      | ug/L  | 0.002    | 10        | 48            | 260           | 9           | Standard |
| Ba      | 135  | 286.223    | ug/L  | 5.046    | 1         | 24            | 850353        | 1           | Standard |
| Ba      | 137  | 288.764    | ug/L  | 6.584    | 2         | 29            | 1522814       | 2           | Standard |
| > Tb    | 159  |            | ug/L  |          |           | 624828        | 639701        | 2           | Standard |
| Pb      | 208  | 0.005      | ug/L  | 0.000    | 4         | 160           | 357           | 4           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0101-DUP2**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 02:32:34**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 45469         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4344634       | 1           | Standard |
| > Sc    | 45   |            | ug/L  |          |           | 457643        | 547798        | 7           | Standard |
| Cr      | 52   | 0.004      | ug/L  | 0.050    | 1128      | 14350         | 17211         | 2           | Standard |
| Cr      | 53   | 0.141      | ug/L  | 0.015    | 10        | 118           | 433           | 1           | Standard |
| Mn      | 55   | 142.838    | ug/L  | 11.340   | 7         | 638           | 3590790       | 0           | Standard |
| > Ge    | 72   |            | ug/L  |          |           | 26593         | 24184         | 2           | KED      |
| Ni      | 60   | 0.172      | ug/L  | 0.022    | 12        | 24            | 180           | 10          | KED      |
| Ni      | 62   | 0.190      | ug/L  | 0.063    | 33        | 4             | 32            | 26          | KED      |
| Cu      | 63   | 0.051      | ug/L  | 0.007    | 13        | 39            | 172           | 11          | KED      |
| Cu      | 65   | 0.081      | ug/L  | 0.008    | 9         | 28            | 133           | 5           | KED      |
| Zn      | 66   | 0.516      | ug/L  | 0.042    | 8         | 24            | 196           | 4           | KED      |
| Zn      | 67   | 22.449     | ug/L  | 1.773    | 7         | 3             | 1269          | 6           | KED      |
| As      | 75   | 0.156      | ug/L  | 0.015    | 9         | 6             | 33            | 9           | KED      |
| Se      | 78   | -0.083     | ug/L  | 0.107    | 129       | 20            | 17            | 14          | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 265555        | 3           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 52            | 24          | Standard |
| > In-1  | 115  |            | ug/L  |          |           | 7168          | 6882          | 1           | KED      |
| Cd      | 111  | 0.001      | ug/L  | 0.005    | 623       | 3             | 3             | 25          | KED      |
| Cd      | 114  | 0.005      | ug/L  | 0.010    | 193       | 3             | 5             | 91          | KED      |
| > In    | 115  |            | ug/L  |          |           | 374013        | 339961        | 5           | Standard |
| Ag      | 107  | 0.016      | ug/L  | 0.000    | 2         | 48            | 220           | 7           | Standard |
| Ba      | 135  | 290.798    | ug/L  | 9.427    | 3         | 24            | 825397        | 2           | Standard |
| Ba      | 137  | 290.376    | ug/L  | 9.785    | 3         | 29            | 1462844       | 2           | Standard |
| > Tb    | 159  |            | ug/L  |          |           | 624828        | 614536        | 4           | Standard |
| Pb      | 208  | 0.004      | ug/L  | 0.000    | 10        | 160           | 323           | 10          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0101-MS2**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 02:37:42**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 44381         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4335410       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 457643        | 549100        | 0           | Standard |
| Cr      | 52   | 23.566     | ug/L  | 0.171    | 0         | 14350         | 441623        | 0           | Standard |
| Cr      | 53   | 23.978     | ug/L  | 0.174    | 0         | 118           | 49986         | 1           | Standard |
| Mn      | 55   | 160.005    | ug/L  | 0.670    | 0         | 638           | 4047985       | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 26593         | 23993         | 0           | KED      |
| Ni      | 60   | 26.750     | ug/L  | 0.632    | 2         | 24            | 24399         | 2           | KED      |
| Ni      | 62   | 27.007     | ug/L  | 0.394    | 1         | 4             | 4016          | 1           | KED      |
| Cu      | 63   | 26.201     | ug/L  | 0.287    | 1         | 39            | 69657         | 1           | KED      |
| Cu      | 65   | 26.216     | ug/L  | 0.592    | 2         | 28            | 34419         | 1           | KED      |
| Zn      | 66   | 78.151     | ug/L  | 0.518    | 0         | 24            | 26317         | 0           | KED      |
| Zn      | 67   | 94.822     | ug/L  | 4.747    | 5         | 3             | 5311          | 4           | KED      |
| As      | 75   | 26.761     | ug/L  | 0.592    | 2         | 6             | 4696          | 1           | KED      |
| Se      | 78   | 79.449     | ug/L  | 0.679    | 0         | 20            | 1582          | 1           | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 266671        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 60            | 15          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7168          | 6596          | 3           | KED      |
| Cd      | 111  | 26.003     | ug/L  | 0.374    | 1         | 3             | 5067          | 2           | KED      |
| Cd      | 114  | 26.202     | ug/L  | 0.687    | 2         | 3             | 12555         | 1           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 374013        | 345452        | 1           | Standard |
| Ag      | 107  | 26.240     | ug/L  | 0.354    | 1         | 48            | 302157        | 1           | Standard |
| Ba      | 135  | 303.165    | ug/L  | 5.260    | 1         | 24            | 875339        | 0           | Standard |
| Ba      | 137  | 304.802    | ug/L  | 1.819    | 0         | 29            | 1562229       | 0           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 624828        | 629886        | 1           | Standard |
| Pb      | 208  | 26.356     | ug/L  | 0.348    | 1         | 160           | 1028413       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0101-MSD2**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 02:43:50**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 45986         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4242288       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 457643        | 538114        | 0           | Standard |
| Cr      | 52   | 23.257     | ug/L  | 0.228    | 0         | 14350         | 427364        | 1           | Standard |
| Cr      | 53   | 23.835     | ug/L  | 0.126    | 0         | 118           | 48692         | 0           | Standard |
| Mn      | 55   | 164.823    | ug/L  | 1.874    | 1         | 638           | 4086335       | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 26593         | 24304         | 2           | KED      |
| Ni      | 60   | 25.910     | ug/L  | 1.131    | 4         | 24            | 23925         | 2           | KED      |
| Ni      | 62   | 26.567     | ug/L  | 1.417    | 5         | 4             | 3999          | 3           | KED      |
| Cu      | 63   | 25.120     | ug/L  | 0.696    | 2         | 39            | 67619         | 0           | KED      |
| Cu      | 65   | 25.113     | ug/L  | 1.285    | 5         | 28            | 33383         | 3           | KED      |
| Zn      | 66   | 77.569     | ug/L  | 3.094    | 3         | 24            | 26447         | 2           | KED      |
| Zn      | 67   | 91.850     | ug/L  | 5.518    | 6         | 3             | 5208          | 4           | KED      |
| As      | 75   | 25.657     | ug/L  | 0.547    | 2         | 6             | 4561          | 1           | KED      |
| Se      | 78   | 76.955     | ug/L  | 1.368    | 1         | 20            | 1552          | 0           | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 273355        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 57            | 15          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7168          | 6711          | 1           | KED      |
| Cd      | 111  | 25.542     | ug/L  | 1.091    | 4         | 3             | 5064          | 3           | KED      |
| Cd      | 114  | 25.672     | ug/L  | 0.743    | 2         | 3             | 12521         | 1           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 374013        | 347389        | 0           | Standard |
| Ag      | 107  | 26.639     | ug/L  | 0.287    | 1         | 48            | 308477        | 0           | Standard |
| Ba      | 135  | 311.107    | ug/L  | 1.467    | 0         | 24            | 903463        | 0           | Standard |
| Ba      | 137  | 307.727    | ug/L  | 7.193    | 2         | 29            | 1586136       | 2           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 624828        | 626869        | 1           | Standard |
| Pb      | 208  | 25.921     | ug/L  | 0.635    | 2         | 160           | 1006404       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLE

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 02:48:29

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 31844         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4344661       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 457643        | 457283        | 2           | Standard |
| Cr      | 52   | 0.015      | ug/L  | 0.035    | 239       | 14350         | 14558         | 3           | Standard |
| Cr      | 53   | 0.006      | ug/L  | 0.002    | 32        | 118           | 128           | 4           | Standard |
| Mn      | 55   | 0.097      | ug/L  | 0.000    | 0         | 638           | 2675          | 2           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 26593         | 25863         | 0           | KED      |
| Ni      | 60   | -0.009     | ug/L  | 0.007    | 79        | 24            | 15            | 45          | KED      |
| Ni      | 62   | 0.009      | ug/L  | 0.000    | 3         | 4             | 5             | 0           | KED      |
| Cu      | 63   | 0.038      | ug/L  | 0.008    | 20        | 39            | 147           | 14          | KED      |
| Cu      | 65   | 0.038      | ug/L  | 0.004    | 11        | 28            | 81            | 7           | KED      |
| Zn      | 66   | 0.055      | ug/L  | 0.053    | 96        | 24            | 43            | 43          | KED      |
| Zn      | 67   | 0.023      | ug/L  | 0.091    | 400       | 3             | 5             | 108         | KED      |
| As      | 75   | -0.011     | ug/L  | 0.004    | 40        | 6             | 4             | 17          | KED      |
| Se      | 78   | -0.349     | ug/L  | 0.089    | 25        | 20            | 13            | 15          | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 258686        | 3           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 33            | 34          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7168          | 6973          | 3           | KED      |
| Cd      | 111  | 0.001      | ug/L  | 0.010    | 1417      | 3             | 3             | 50          | KED      |
| Cd      | 114  | 0.002      | ug/L  | 0.004    | 258       | 3             | 3             | 52          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 374013        | 363899        | 1           | Standard |
| Ag      | 107  | 0.016      | ug/L  | 0.002    | 10        | 48            | 243           | 10          | Standard |
| Ba      | 135  | 0.012      | ug/L  | 0.002    | 14        | 24            | 60            | 9           | Standard |
| Ba      | 137  | 0.015      | ug/L  | 0.001    | 8         | 29            | 111           | 7           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 624828        | 622162        | 2           | Standard |
| Pb      | 208  | -0.001     | ug/L  | 0.000    | 35        | 160           | 135           | 7           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 02:53:14

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 31972         | 3           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4334435       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 457643        | 481573        | 0           | Standard |
| Cr      | 52   | 49.867     | ug/L  | 0.314    | 0         | 14350         | 802745        | 0           | Standard |
| Cr      | 53   | 51.408     | ug/L  | 0.774    | 1         | 118           | 93845         | 1           | Standard |
| Mn      | 55   | 50.782     | ug/L  | 0.601    | 1         | 638           | 1127165       | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 26593         | 26461         | 1           | KED      |
| Ni      | 60   | 48.432     | ug/L  | 0.788    | 1         | 24            | 48696         | 0           | KED      |
| Ni      | 62   | 49.287     | ug/L  | 1.443    | 2         | 4             | 8079          | 2           | KED      |
| Cu      | 63   | 49.417     | ug/L  | 0.485    | 0         | 39            | 144841        | 0           | KED      |
| Cu      | 65   | 49.696     | ug/L  | 1.255    | 2         | 28            | 71934         | 2           | KED      |
| Zn      | 66   | 50.224     | ug/L  | 2.124    | 4         | 24            | 18654         | 2           | KED      |
| Zn      | 67   | 50.612     | ug/L  | 0.787    | 1         | 3             | 3129          | 2           | KED      |
| As      | 75   | 49.450     | ug/L  | 0.864    | 1         | 6             | 9565          | 0           | KED      |
| Se      | 78   | 46.411     | ug/L  | 1.062    | 2         | 20            | 1028          | 3           | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 272289        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 48            | 8           | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7168          | 7234          | 3           | KED      |
| Cd      | 111  | 50.882     | ug/L  | 1.720    | 3         | 3             | 10866         | 0           | KED      |
| Cd      | 114  | 51.262     | ug/L  | 1.877    | 3         | 3             | 26934         | 2           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 374013        | 372120        | 3           | Standard |
| Ag      | 107  | 50.943     | ug/L  | 2.192    | 4         | 48            | 631288        | 0           | Standard |
| Ba      | 135  | 51.431     | ug/L  | 1.604    | 3         | 24            | 159898        | 0           | Standard |
| Ba      | 137  | 50.438     | ug/L  | 1.628    | 3         | 29            | 278310        | 0           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 624828        | 653255        | 1           | Standard |
| Pb      | 208  | 51.076     | ug/L  | 0.827    | 1         | 160           | 2066714       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 03:00:42

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 31143         | 3           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4188772       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 457643        | 458965        | 2           | Standard |
| Cr      | 52   | -0.002     | ug/L  | 0.023    | 998       | 14350         | 14354         | 2           | Standard |
| Cr      | 53   | 0.008      | ug/L  | 0.007    | 91        | 118           | 133           | 7           | Standard |
| Mn      | 55   | 0.084      | ug/L  | 0.002    | 2         | 638           | 2425          | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 26593         | 25378         | 2           | KED      |
| Ni      | 60   | -0.005     | ug/L  | 0.007    | 143       | 24            | 19            | 36          | KED      |
| Ni      | 62   | -0.007     | ug/L  | 0.014    | 194       | 4             | 3             | 69          | KED      |
| Cu      | 63   | 0.003      | ug/L  | 0.006    | 212       | 39            | 45            | 37          | KED      |
| Cu      | 65   | 0.000      | ug/L  | 0.006    | 1339      | 28            | 27            | 31          | KED      |
| Zn      | 66   | -0.006     | ug/L  | 0.010    | 180       | 24            | 20            | 15          | KED      |
| Zn      | 67   | -0.007     | ug/L  | 0.049    | 661       | 3             | 3             | 91          | KED      |
| As      | 75   | -0.005     | ug/L  | 0.011    | 208       | 6             | 5             | 38          | KED      |
| Se      | 78   | -0.082     | ug/L  | 0.122    | 148       | 20            | 18            | 11          | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 256524        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 46            | 20          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7168          | 6821          | 4           | KED      |
| Cd      | 111  | 0.001      | ug/L  | 0.009    | 793       | 3             | 3             | 43          | KED      |
| Cd      | 114  | 0.001      | ug/L  | 0.007    | 449       | 3             | 3             | 92          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 374013        | 363828        | 0           | Standard |
| Ag      | 107  | 0.014      | ug/L  | 0.002    | 11        | 48            | 219           | 8           | Standard |
| Ba      | 135  | 0.000      | ug/L  | 0.001    | 220       | 24            | 25            | 11          | Standard |
| Ba      | 137  | 0.004      | ug/L  | 0.000    | 11        | 29            | 50            | 4           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 624828        | 632328        | 0           | Standard |
| Pb      | 208  | -0.002     | ug/L  | 0.000    | 5         | 160           | 102           | 3           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0591-04**

Sample Dil Factor: **5**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 03:05:27**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte   | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|-----------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C         | 13   |               | ug/L  |          |           | 30779         | 72095         | 2           | Standard |
| Cl        | 37   |               | ug/L  |          |           | 4052820       | 4388683       | 1           | Standard |
| > Sc      | 45   |               | ug/L  |          |           | 457643        | 481638        | 1           | Standard |
| Cr        | 52   | <b>0.237</b>  | ug/L  | 0.011    | 4         | 14350         | 18848         | 1           | Standard |
| Cr        | 53   | <b>0.382</b>  | ug/L  | 0.019    | 5         | 118           | 821           | 3           | Standard |
| Mn        | 55   | <b>5.634</b>  | ug/L  | 0.122    | 2         | 638           | 125631        | 0           | Standard |
| > Ge      | 72   |               | ug/L  |          |           | 26593         | 25759         | 0           | KED      |
| Ni        | 60   | <b>0.391</b>  | ug/L  | 0.028    | 7         | 24            | 406           | 7           | KED      |
| Ni        | 62   | <b>0.451</b>  | ug/L  | 0.003    | 0         | 4             | 76            | 0           | KED      |
| <b>Cu</b> | 63   | <b>7.218</b>  | ug/L  | 0.130    | 1         | 39            | 20627         | 1           | KED      |
| Cu        | 65   | <b>7.380</b>  | ug/L  | 0.134    | 1         | 28            | 10423         | 2           | KED      |
| <b>Zn</b> | 66   | <b>41.397</b> | ug/L  | 1.064    | 2         | 24            | 14976         | 1           | KED      |
| Zn        | 67   | <b>36.882</b> | ug/L  | 0.841    | 2         | 3             | 2220          | 1           | KED      |
| As        | 75   | <b>0.086</b>  | ug/L  | 0.006    | 6         | 6             | 23            | 4           | KED      |
| Se        | 78   | <b>-0.159</b> | ug/L  | 0.021    | 13        | 20            | 16            | 2           | KED      |
| Y         | 89   |               | ug/L  |          |           | 265146        | 272616        | 2           | Standard |
| Kr        | 83   |               | ug/L  |          |           | 48            | 49            | 15          | Standard |
| > In-1    | 115  |               | ug/L  |          |           | 7168          | 7121          | 1           | KED      |
| Cd        | 111  | <b>0.033</b>  | ug/L  | 0.010    | 29        | 3             | 10            | 18          | KED      |
| Cd        | 114  | <b>0.040</b>  | ug/L  | 0.008    | 19        | 3             | 23            | 16          | KED      |
| > In      | 115  |               | ug/L  |          |           | 374013        | 367485        | 0           | Standard |
| Ag        | 107  | <b>0.017</b>  | ug/L  | 0.001    | 4         | 48            | 250           | 3           | Standard |
| Ba        | 135  | <b>1.699</b>  | ug/L  | 0.060    | 3         | 24            | 5240          | 2           | Standard |
| Ba        | 137  | <b>1.695</b>  | ug/L  | 0.038    | 2         | 29            | 9271          | 1           | Standard |
| > Tb      | 159  |               | ug/L  |          |           | 624828        | 643167        | 1           | Standard |
| Pb        | 208  | <b>0.181</b>  | ug/L  | 0.002    | 1         | 160           | 7356          | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0591-02**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 03:10:11**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte   | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|-----------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C         | 13   |               | ug/L  |          |           | 30779         | 42851         | 1           | Standard |
| Cl        | 37   |               | ug/L  |          |           | 4052820       | 4280472       | 1           | Standard |
| > Sc      | 45   |               | ug/L  |          |           | 457643        | 506874        | 1           | Standard |
| Cr        | 52   | <b>0.357</b>  | ug/L  | 0.015    | 4         | 14350         | 21824         | 2           | Standard |
| Cr        | 53   | <b>0.488</b>  | ug/L  | 0.009    | 1         | 118           | 1067          | 2           | Standard |
| Mn        | 55   | <b>55.047</b> | ug/L  | 1.364    | 2         | 638           | 1285751       | 1           | Standard |
| > Ge      | 72   |               | ug/L  |          |           | 26593         | 26065         | 1           | KED      |
| Ni        | 60   | <b>0.450</b>  | ug/L  | 0.019    | 4         | 24            | 469           | 2           | KED      |
| Ni        | 62   | <b>0.461</b>  | ug/L  | 0.052    | 11        | 4             | 78            | 9           | KED      |
| <b>Cu</b> | 63   | <b>0.985</b>  | ug/L  | 0.019    | 1         | 39            | 2881          | 0           | KED      |
| Cu        | 65   | <b>1.002</b>  | ug/L  | 0.036    | 3         | 28            | 1455          | 2           | KED      |
| <b>Zn</b> | 66   | <b>26.258</b> | ug/L  | 0.696    | 2         | 24            | 9619          | 0           | KED      |
| Zn        | 67   | <b>24.687</b> | ug/L  | 0.461    | 1         | 3             | 1505          | 2           | KED      |
| As        | 75   | <b>0.748</b>  | ug/L  | 0.020    | 2         | 6             | 149           | 3           | KED      |
| Se        | 78   | <b>-0.235</b> | ug/L  | 0.050    | 21        | 20            | 15            | 5           | KED      |
| Y         | 89   |               | ug/L  |          |           | 265146        | 277640        | 1           | Standard |
| Kr        | 83   |               | ug/L  |          |           | 48            | 44            | 41          | Standard |
| > In-1    | 115  |               | ug/L  |          |           | 7168          | 7009          | 1           | KED      |
| Cd        | 111  | <b>0.028</b>  | ug/L  | 0.013    | 45        | 3             | 9             | 26          | KED      |
| Cd        | 114  | <b>0.029</b>  | ug/L  | 0.002    | 5         | 3             | 17            | 6           | KED      |
| > In      | 115  |               | ug/L  |          |           | 374013        | 374039        | 0           | Standard |
| Ag        | 107  | <b>0.010</b>  | ug/L  | 0.001    | 6         | 48            | 175           | 4           | Standard |
| Ba        | 135  | <b>11.522</b> | ug/L  | 0.115    | 1         | 24            | 36050         | 1           | Standard |
| Ba        | 137  | <b>11.499</b> | ug/L  | 0.180    | 1         | 29            | 63841         | 0           | Standard |
| > Tb      | 159  |               | ug/L  |          |           | 624828        | 644401        | 1           | Standard |
| Pb        | 208  | <b>0.088</b>  | ug/L  | 0.003    | 2         | 160           | 3687          | 2           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0591-05**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 03:14:55**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte   | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|-----------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C         | 13   |                | ug/L  |          |           | 30779         | 48251         | 2           | Standard |
| Cl        | 37   |                | ug/L  |          |           | 4052820       | 5175730       | 0           | Standard |
| [> Sc     | 45   |                | ug/L  |          |           | 457643        | 500658        | 0           | Standard |
| Cr        | 52   | <b>0.511</b>   | ug/L  | 0.020    | 3         | 14350         | 24093         | 1           | Standard |
| Cr        | 53   | <b>1.244</b>   | ug/L  | 0.006    | 0         | 118           | 2487          | 0           | Standard |
| Mn        | 55   | <b>132.932</b> | ug/L  | 1.633    | 1         | 638           | 3066567       | 1           | Standard |
| [> Ge     | 72   |                | ug/L  |          |           | 26593         | 26089         | 0           | KED      |
| Ni        | 60   | <b>0.870</b>   | ug/L  | 0.019    | 2         | 24            | 887           | 2           | KED      |
| Ni        | 62   | <b>0.838</b>   | ug/L  | 0.053    | 6         | 4             | 139           | 6           | KED      |
| <b>Cu</b> | 63   | <b>2.025</b>   | ug/L  | 0.027    | 1         | 39            | 5889          | 1           | KED      |
| Cu        | 65   | <b>2.075</b>   | ug/L  | 0.080    | 3         | 28            | 2987          | 3           | KED      |
| <b>Zn</b> | 66   | <b>39.110</b>  | ug/L  | 1.000    | 2         | 24            | 14330         | 1           | KED      |
| Zn        | 67   | <b>36.558</b>  | ug/L  | 0.393    | 1         | 3             | 2229          | 0           | KED      |
| As        | 75   | <b>0.654</b>   | ug/L  | 0.034    | 5         | 6             | 131           | 4           | KED      |
| [ Se      | 78   | <b>-0.212</b>  | ug/L  | 0.116    | 54        | 20            | 16            | 14          | KED      |
| Y         | 89   |                | ug/L  |          |           | 265146        | 272845        | 1           | Standard |
| Kr        | 83   |                | ug/L  |          |           | 48            | 34            | 15          | Standard |
| [> In-1   | 115  |                | ug/L  |          |           | 7168          | 6944          | 0           | KED      |
| Cd        | 111  | <b>0.032</b>   | ug/L  | 0.011    | 33        | 3             | 10            | 21          | KED      |
| Cd        | 114  | <b>0.038</b>   | ug/L  | 0.012    | 30        | 3             | 22            | 26          | KED      |
| [> In     | 115  |                | ug/L  |          |           | 374013        | 369346        | 1           | Standard |
| Ag        | 107  | <b>0.014</b>   | ug/L  | 0.002    | 15        | 48            | 215           | 13          | Standard |
| Ba        | 135  | <b>17.616</b>  | ug/L  | 0.121    | 0         | 24            | 54409         | 0           | Standard |
| [ Ba      | 137  | <b>17.319</b>  | ug/L  | 0.171    | 0         | 29            | 94938         | 1           | Standard |
| [> Tb     | 159  |                | ug/L  |          |           | 624828        | 648104        | 0           | Standard |
| [ Pb      | 208  | <b>0.186</b>   | ug/L  | 0.001    | 0         | 160           | 7616          | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0591-06**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 03:19:39**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte   | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|-----------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C         | 13   |               | ug/L  |          |           | 30779         | 43676         | 3           | Standard |
| Cl        | 37   |               | ug/L  |          |           | 4052820       | 4534983       | 1           | Standard |
| [> Sc     | 45   |               | ug/L  |          |           | 457643        | 481023        | 1           | Standard |
| Cr        | 52   | <b>0.460</b>  | ug/L  | 0.024    | 5         | 14350         | 22344         | 0           | Standard |
| Cr        | 53   | <b>0.665</b>  | ug/L  | 0.024    | 3         | 118           | 1335          | 2           | Standard |
| Mn        | 55   | <b>51.943</b> | ug/L  | 0.736    | 1         | 638           | 1151707       | 2           | Standard |
| [> Ge     | 72   |               | ug/L  |          |           | 26593         | 26290         | 1           | KED      |
| Ni        | 60   | <b>0.368</b>  | ug/L  | 0.029    | 7         | 24            | 391           | 8           | KED      |
| Ni        | 62   | <b>0.461</b>  | ug/L  | 0.053    | 11        | 4             | 79            | 9           | KED      |
| <b>Cu</b> | 63   | <b>0.850</b>  | ug/L  | 0.027    | 3         | 39            | 2512          | 4           | KED      |
| Cu        | 65   | <b>0.859</b>  | ug/L  | 0.029    | 3         | 28            | 1262          | 4           | KED      |
| <b>Zn</b> | 66   | <b>16.912</b> | ug/L  | 0.633    | 3         | 24            | 6256          | 2           | KED      |
| Zn        | 67   | <b>15.739</b> | ug/L  | 0.294    | 1         | 3             | 969           | 3           | KED      |
| As        | 75   | <b>0.261</b>  | ug/L  | 0.020    | 7         | 6             | 56            | 7           | KED      |
| Se        | 78   | <b>-0.191</b> | ug/L  | 0.165    | 86        | 20            | 16            | 22          | KED      |
| Y         | 89   |               | ug/L  |          |           | 265146        | 272690        | 0           | Standard |
| Kr        | 83   |               | ug/L  |          |           | 48            | 47            | 31          | Standard |
| [> In-1   | 115  |               | ug/L  |          |           | 7168          | 7062          | 2           | KED      |
| Cd        | 111  | <b>0.025</b>  | ug/L  | 0.014    | 57        | 3             | 8             | 32          | KED      |
| Cd        | 114  | <b>0.012</b>  | ug/L  | 0.004    | 32        | 3             | 9             | 20          | KED      |
| [> In     | 115  |               | ug/L  |          |           | 374013        | 366917        | 0           | Standard |
| Ag        | 107  | <b>0.010</b>  | ug/L  | 0.002    | 20        | 48            | 171           | 15          | Standard |
| Ba        | 135  | <b>12.529</b> | ug/L  | 0.265    | 2         | 24            | 38456         | 2           | Standard |
| Ba        | 137  | <b>12.692</b> | ug/L  | 0.166    | 1         | 29            | 69128         | 1           | Standard |
| [> Tb     | 159  |               | ug/L  |          |           | 624828        | 649365        | 0           | Standard |
| Pb        | 208  | <b>0.116</b>  | ug/L  | 0.004    | 3         | 160           | 4821          | 2           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0591-07**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 03:24:23**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte   | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|-----------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C         | 13   |                | ug/L  |          |           | 30779         | 45131         | 3           | Standard |
| Cl        | 37   |                | ug/L  |          |           | 4052820       | 5182665       | 0           | Standard |
| [> Sc     | 45   |                | ug/L  |          |           | 457643        | 494785        | 2           | Standard |
| Cr        | 52   | <b>0.653</b>   | ug/L  | 0.041    | 6         | 14350         | 26099         | 2           | Standard |
| Cr        | 53   | <b>1.301</b>   | ug/L  | 0.012    | 0         | 118           | 2564          | 1           | Standard |
| Mn        | 55   | <b>108.749</b> | ug/L  | 2.235    | 2         | 638           | 2478481       | 0           | Standard |
| [> Ge     | 72   |                | ug/L  |          |           | 26593         | 25925         | 1           | KED      |
| Ni        | 60   | <b>0.834</b>   | ug/L  | 0.013    | 1         | 24            | 845           | 1           | KED      |
| Ni        | 62   | <b>0.815</b>   | ug/L  | 0.203    | 24        | 4             | 135           | 24          | KED      |
| <b>Cu</b> | 63   | <b>1.536</b>   | ug/L  | 0.023    | 1         | 39            | 4447          | 1           | KED      |
| Cu        | 65   | <b>1.588</b>   | ug/L  | 0.025    | 1         | 28            | 2279          | 1           | KED      |
| <b>Zn</b> | 66   | <b>27.109</b>  | ug/L  | 0.763    | 2         | 24            | 9878          | 2           | KED      |
| Zn        | 67   | <b>26.472</b>  | ug/L  | 1.470    | 5         | 3             | 1605          | 6           | KED      |
| As        | 75   | <b>0.581</b>   | ug/L  | 0.016    | 2         | 6             | 116           | 2           | KED      |
| [ Se      | 78   | <b>-0.012</b>  | ug/L  | 0.158    | 1278      | 20            | 20            | 16          | KED      |
| Y         | 89   |                | ug/L  |          |           | 265146        | 276627        | 1           | Standard |
| Kr        | 83   |                | ug/L  |          |           | 48            | 50            | 5           | Standard |
| [> In-1   | 115  |                | ug/L  |          |           | 7168          | 7327          | 1           | KED      |
| Cd        | 111  | <b>0.035</b>   | ug/L  | 0.008    | 23        | 3             | 11            | 14          | KED      |
| Cd        | 114  | <b>0.043</b>   | ug/L  | 0.027    | 63        | 3             | 25            | 55          | KED      |
| [> In     | 115  |                | ug/L  |          |           | 374013        | 375453        | 1           | Standard |
| Ag        | 107  | <b>0.011</b>   | ug/L  | 0.003    | 26        | 48            | 190           | 19          | Standard |
| Ba        | 135  | <b>19.582</b>  | ug/L  | 0.267    | 1         | 24            | 61476         | 0           | Standard |
| [ Ba      | 137  | <b>19.796</b>  | ug/L  | 0.528    | 2         | 29            | 110288        | 1           | Standard |
| [> Tb     | 159  |                | ug/L  |          |           | 624828        | 653645        | 1           | Standard |
| [ Pb      | 208  | <b>0.231</b>   | ug/L  | 0.004    | 1         | 160           | 9537          | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0591-08**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 03:29:07**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte   | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|-----------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C         | 13   |               | ug/L  |          |           | 30779         | 48404         | 4           | Standard |
| Cl        | 37   |               | ug/L  |          |           | 4052820       | 6371769       | 3           | Standard |
| > Sc      | 45   |               | ug/L  |          |           | 457643        | 532069        | 1           | Standard |
| Cr        | 52   | <b>0.789</b>  | ug/L  | 0.027    | 3         | 14350         | 30449         | 0           | Standard |
| Cr        | 53   | <b>3.056</b>  | ug/L  | 0.027    | 0         | 118           | 6292          | 0           | Standard |
| Mn        | 55   | <b>53.636</b> | ug/L  | 0.986    | 1         | 638           | 1315136       | 0           | Standard |
| > Ge      | 72   |               | ug/L  |          |           | 26593         | 25264         | 0           | KED      |
| Ni        | 60   | <b>3.042</b>  | ug/L  | 0.074    | 2         | 24            | 2943          | 2           | KED      |
| Ni        | 62   | <b>2.948</b>  | ug/L  | 0.120    | 4         | 4             | 465           | 3           | KED      |
| <b>Cu</b> | 63   | <b>5.366</b>  | ug/L  | 0.036    | 0         | 39            | 15052         | 0           | KED      |
| Cu        | 65   | <b>5.407</b>  | ug/L  | 0.051    | 0         | 28            | 7497          | 1           | KED      |
| <b>Zn</b> | 66   | <b>37.441</b> | ug/L  | 0.515    | 1         | 24            | 13288         | 1           | KED      |
| Zn        | 67   | <b>36.430</b> | ug/L  | 1.126    | 3         | 3             | 2151          | 2           | KED      |
| As        | 75   | <b>0.784</b>  | ug/L  | 0.071    | 9         | 6             | 151           | 8           | KED      |
| Se        | 78   | <b>-0.189</b> | ug/L  | 0.098    | 52        | 20            | 16            | 13          | KED      |
| Y         | 89   |               | ug/L  |          |           | 265146        | 278841        | 1           | Standard |
| Kr        | 83   |               | ug/L  |          |           | 48            | 38            | 22          | Standard |
| > In-1    | 115  |               | ug/L  |          |           | 7168          | 7082          | 3           | KED      |
| Cd        | 111  | <b>0.037</b>  | ug/L  | 0.018    | 48        | 3             | 11            | 28          | KED      |
| Cd        | 114  | <b>0.050</b>  | ug/L  | 0.026    | 51        | 3             | 28            | 47          | KED      |
| > In      | 115  |               | ug/L  |          |           | 374013        | 366062        | 0           | Standard |
| Ag        | 107  | <b>0.016</b>  | ug/L  | 0.002    | 9         | 48            | 248           | 7           | Standard |
| Ba        | 135  | <b>29.171</b> | ug/L  | 0.532    | 1         | 24            | 89281         | 1           | Standard |
| Ba        | 137  | <b>28.748</b> | ug/L  | 0.061    | 0         | 29            | 156169        | 0           | Standard |
| > Tb      | 159  |               | ug/L  |          |           | 624828        | 644975        | 0           | Standard |
| Pb        | 208  | <b>0.819</b>  | ug/L  | 0.009    | 1         | 160           | 32870         | 0           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0591-03RE1**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 03:34:15**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte   | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|-----------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C         | 13   |               | ug/L  |          |           | 30779         | 39226         | 1           | Standard |
| Cl        | 37   |               | ug/L  |          |           | 4052820       | 4484256       | 1           | Standard |
| > Sc      | 45   |               | ug/L  |          |           | 457643        | 480506        | 1           | Standard |
| Cr        | 52   | <b>0.153</b>  | ug/L  | 0.020    | 13        | 14350         | 17474         | 0           | Standard |
| Cr        | 53   | <b>0.559</b>  | ug/L  | 0.026    | 4         | 118           | 1140          | 3           | Standard |
| <b>Mn</b> | 55   | <b>52.386</b> | ug/L  | 0.848    | 1         | 638           | 1160126       | 1           | Standard |
| > Ge      | 72   |               | ug/L  |          |           | 26593         | 26152         | 1           | KED      |
| Ni        | 60   | <b>0.132</b>  | ug/L  | 0.022    | 16        | 24            | 154           | 13          | KED      |
| Ni        | 62   | <b>0.188</b>  | ug/L  | 0.039    | 20        | 4             | 34            | 19          | KED      |
| Cu        | 63   | <b>0.245</b>  | ug/L  | 0.006    | 2         | 39            | 749           | 1           | KED      |
| Cu        | 65   | <b>0.252</b>  | ug/L  | 0.015    | 5         | 28            | 388           | 6           | KED      |
| Zn        | 66   | <b>4.505</b>  | ug/L  | 0.111    | 2         | 24            | 1676          | 3           | KED      |
| Zn        | 67   | <b>4.681</b>  | ug/L  | 0.207    | 4         | 3             | 289           | 5           | KED      |
| As        | 75   | <b>0.336</b>  | ug/L  | 0.043    | 12        | 6             | 71            | 11          | KED      |
| Se        | 78   | <b>-0.205</b> | ug/L  | 0.109    | 53        | 20            | 16            | 13          | KED      |
| Y         | 89   |               | ug/L  |          |           | 265146        | 269344        | 1           | Standard |
| Kr        | 83   |               | ug/L  |          |           | 48            | 48            | 19          | Standard |
| > In-1    | 115  |               | ug/L  |          |           | 7168          | 7066          | 1           | KED      |
| Cd        | 111  | <b>0.009</b>  | ug/L  | 0.000    | 4         | 3             | 5             | 0           | KED      |
| Cd        | 114  | <b>0.015</b>  | ug/L  | 0.006    | 39        | 3             | 10            | 27          | KED      |
| > In      | 115  |               | ug/L  |          |           | 374013        | 375608        | 1           | Standard |
| Ag        | 107  | <b>0.005</b>  | ug/L  | 0.001    | 23        | 48            | 108           | 13          | Standard |
| Ba        | 135  | <b>4.410</b>  | ug/L  | 0.027    | 0         | 24            | 13870         | 0           | Standard |
| Ba        | 137  | <b>4.367</b>  | ug/L  | 0.070    | 1         | 29            | 24363         | 0           | Standard |
| > Tb      | 159  |               | ug/L  |          |           | 624828        | 641801        | 1           | Standard |
| Pb        | 208  | <b>0.018</b>  | ug/L  | 0.000    | 2         | 160           | 890           | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0591-03**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 03:38:58**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte   | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|-----------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C         | 13   |                | ug/L  |          |           | 30779         | 48678         | 4           | Standard |
| Cl        | 37   |                | ug/L  |          |           | 4052820       | 4960445       | 4           | Standard |
| [> Sc     | 45   |                | ug/L  |          |           | 457643        | 508885        | 0           | Standard |
| Cr        | 52   | <b>0.745</b>   | ug/L  | 0.039    | 5         | 14350         | 28392         | 1           | Standard |
| Cr        | 53   | <b>1.477</b>   | ug/L  | 0.030    | 2         | 118           | 2978          | 2           | Standard |
| Mn        | 55   | <b>241.495</b> | ug/L  | 3.145    | 1         | 638           | 5661974       | 1           | Standard |
| [> Ge     | 72   |                | ug/L  |          |           | 26593         | 25832         | 0           | KED      |
| Ni        | 60   | <b>0.597</b>   | ug/L  | 0.024    | 4         | 24            | 609           | 3           | KED      |
| Ni        | 62   | <b>0.569</b>   | ug/L  | 0.045    | 7         | 4             | 95            | 6           | KED      |
| <b>Cu</b> | 63   | <b>1.176</b>   | ug/L  | 0.056    | 4         | 39            | 3403          | 5           | KED      |
| Cu        | 65   | <b>1.170</b>   | ug/L  | 0.006    | 0         | 28            | 1680          | 0           | KED      |
| <b>Zn</b> | 66   | <b>20.427</b>  | ug/L  | 0.667    | 3         | 24            | 7422          | 2           | KED      |
| Zn        | 67   | <b>20.046</b>  | ug/L  | 0.492    | 2         | 3             | 1212          | 2           | KED      |
| As        | 75   | <b>1.628</b>   | ug/L  | 0.034    | 2         | 6             | 313           | 2           | KED      |
| Se        | 78   | <b>-0.154</b>  | ug/L  | 0.196    | 127       | 20            | 17            | 24          | KED      |
| Y         | 89   |                | ug/L  |          |           | 265146        | 278635        | 0           | Standard |
| Kr        | 83   |                | ug/L  |          |           | 48            | 48            | 25          | Standard |
| [> In-1   | 115  |                | ug/L  |          |           | 7168          | 7040          | 2           | KED      |
| Cd        | 111  | <b>0.034</b>   | ug/L  | 0.022    | 64        | 3             | 10            | 41          | KED      |
| Cd        | 114  | <b>0.026</b>   | ug/L  | 0.013    | 49        | 3             | 16            | 41          | KED      |
| [> In     | 115  |                | ug/L  |          |           | 374013        | 371061        | 1           | Standard |
| Ag        | 107  | <b>0.006</b>   | ug/L  | 0.001    | 20        | 48            | 121           | 11          | Standard |
| Ba        | 135  | <b>21.840</b>  | ug/L  | 0.763    | 3         | 24            | 67741         | 2           | Standard |
| Ba        | 137  | <b>21.848</b>  | ug/L  | 0.575    | 2         | 29            | 120276        | 1           | Standard |
| [> Tb     | 159  |                | ug/L  |          |           | 624828        | 643850        | 1           | Standard |
| Pb        | 208  | <b>0.095</b>   | ug/L  | 0.003    | 3         | 160           | 3960          | 2           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0591-01**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 03:44:06**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 61270         | 0           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4466350       | 0           | Standard |
| > Sc    | 45   |            | ug/L  |          |           | 457643        | 515709        | 2           | Standard |
| Cr      | 52   | 0.321      | ug/L  | 0.026    | 8         | 14350         | 21589         | 0           | Standard |
| Cr      | 53   | 0.407      | ug/L  | 0.019    | 4         | 118           | 928           | 5           | Standard |
| Mn      | 55   | 857.141    | ug/L  | 33.578   | 3         | 638           | 20352061      | 2           | Standard |
| > Ge    | 72   |            | ug/L  |          |           | 26593         | 25982         | 1           | KED      |
| Ni      | 60   | 1.655      | ug/L  | 0.149    | 9         | 24            | 1655          | 7           | KED      |
| Ni      | 62   | 1.691      | ug/L  | 0.179    | 10        | 4             | 276           | 9           | KED      |
| Cu      | 63   | 0.563      | ug/L  | 0.012    | 2         | 39            | 1657          | 3           | KED      |
| Cu      | 65   | 0.569      | ug/L  | 0.043    | 7         | 28            | 835           | 6           | KED      |
| Zn      | 66   | 11.207     | ug/L  | 0.140    | 1         | 24            | 4106          | 0           | KED      |
| Zn      | 67   | 12.354     | ug/L  | 0.828    | 6         | 3             | 752           | 5           | KED      |
| As      | 75   | 2.013      | ug/L  | 0.125    | 6         | 6             | 389           | 7           | KED      |
| Se      | 78   | -0.023     | ug/L  | 0.205    | 877       | 20            | 20            | 22          | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 277490        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 60            | 13          | Standard |
| > In-1  | 115  |            | ug/L  |          |           | 7168          | 7211          | 1           | KED      |
| Cd      | 111  | 0.054      | ug/L  | 0.009    | 17        | 3             | 15            | 12          | KED      |
| Cd      | 114  | 0.062      | ug/L  | 0.010    | 16        | 3             | 35            | 13          | KED      |
| > In    | 115  |            | ug/L  |          |           | 374013        | 365979        | 1           | Standard |
| Ag      | 107  | 0.005      | ug/L  | 0.000    | 8         | 48            | 110           | 5           | Standard |
| Ba      | 135  | 21.638     | ug/L  | 0.406    | 1         | 24            | 66211         | 0           | Standard |
| Ba      | 137  | 21.618     | ug/L  | 0.363    | 1         | 29            | 117400        | 0           | Standard |
| > Tb    | 159  |            | ug/L  |          |           | 624828        | 647569        | 1           | Standard |
| Pb      | 208  | 0.360      | ug/L  | 0.009    | 2         | 160           | 14590         | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLF

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 03:48:45

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 32990         | 5           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4340408       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 457643        | 461873        | 1           | Standard |
| Cr      | 52   | -0.025     | ug/L  | 0.007    | 26        | 14350         | 14098         | 1           | Standard |
| Cr      | 53   | 0.046      | ug/L  | 0.002    | 4         | 118           | 200           | 1           | Standard |
| Mn      | 55   | 0.080      | ug/L  | 0.009    | 11        | 638           | 2346          | 9           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 26593         | 25733         | 3           | KED      |
| Ni      | 60   | 0.002      | ug/L  | 0.007    | 420       | 24            | 25            | 22          | KED      |
| Ni      | 62   | 0.029      | ug/L  | 0.005    | 17        | 4             | 8             | 12          | KED      |
| Cu      | 63   | 0.005      | ug/L  | 0.006    | 117       | 39            | 52            | 31          | KED      |
| Cu      | 65   | 0.003      | ug/L  | 0.004    | 137       | 28            | 31            | 18          | KED      |
| Zn      | 66   | 0.004      | ug/L  | 0.003    | 63        | 24            | 24            | 0           | KED      |
| Zn      | 67   | 0.001      | ug/L  | 0.082    | 6049      | 3             | 3             | 132         | KED      |
| As      | 75   | 0.005      | ug/L  | 0.004    | 84        | 6             | 7             | 6           | KED      |
| [ Se    | 78   | -0.225     | ug/L  | 0.083    | 36        | 20            | 15            | 13          | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 256333        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 44            | 8           | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7168          | 6934          | 2           | KED      |
| Cd      | 111  | -0.009     | ug/L  | 0.000    | 3         | 3             | 1             |             | KED      |
| [ Cd    | 114  | 0.003      | ug/L  | 0.009    | 307       | 3             | 4             | 100         | KED      |
| [> In   | 115  |            | ug/L  |          |           | 374013        | 366567        | 0           | Standard |
| Ag      | 107  | 0.002      | ug/L  | 0.001    | 63        | 48            | 74            | 21          | Standard |
| Ba      | 135  | 0.002      | ug/L  | 0.003    | 129       | 24            | 31            | 28          | Standard |
| [ Ba    | 137  | 0.005      | ug/L  | 0.001    | 22        | 29            | 55            | 10          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 624828        | 616473        | 1           | Standard |
| [ Pb    | 208  | 0.001      | ug/L  | 0.000    | 12        | 160           | 213           | 3           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 03:53:30

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 32517         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4402553       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 457643        | 482002        | 1           | Standard |
| Cr      | 52   | 50.161     | ug/L  | 0.682    | 1         | 14350         | 808046        | 1           | Standard |
| Cr      | 53   | 50.466     | ug/L  | 0.231    | 0         | 118           | 92212         | 1           | Standard |
| Mn      | 55   | 51.009     | ug/L  | 0.349    | 0         | 638           | 1133157       | 0           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 26593         | 26216         | 0           | KED      |
| Ni      | 60   | 48.517     | ug/L  | 1.174    | 2         | 24            | 48331         | 1           | KED      |
| Ni      | 62   | 48.945     | ug/L  | 0.938    | 1         | 4             | 7950          | 2           | KED      |
| Cu      | 63   | 50.082     | ug/L  | 0.994    | 1         | 39            | 145451        | 2           | KED      |
| Cu      | 65   | 49.096     | ug/L  | 0.557    | 1         | 28            | 70411         | 0           | KED      |
| Zn      | 66   | 50.199     | ug/L  | 0.620    | 1         | 24            | 18478         | 0           | KED      |
| Zn      | 67   | 49.463     | ug/L  | 1.392    | 2         | 3             | 3030          | 3           | KED      |
| As      | 75   | 49.168     | ug/L  | 1.226    | 2         | 6             | 9422          | 1           | KED      |
| [ Se    | 78   | 47.073     | ug/L  | 1.874    | 3         | 20            | 1032          | 3           | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 274238        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 58            | 18          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7168          | 7133          | 1           | KED      |
| Cd      | 111  | 50.609     | ug/L  | 0.663    | 1         | 3             | 10664         | 0           | KED      |
| Cd      | 114  | 50.472     | ug/L  | 0.915    | 1         | 3             | 26170         | 3           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 374013        | 369383        | 0           | Standard |
| Ag      | 107  | 50.638     | ug/L  | 1.567    | 3         | 48            | 623378        | 2           | Standard |
| Ba      | 135  | 50.672     | ug/L  | 1.080    | 2         | 24            | 156473        | 1           | Standard |
| [ Ba    | 137  | 51.210     | ug/L  | 0.455    | 0         | 29            | 280681        | 0           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 624828        | 644727        | 1           | Standard |
| [ Pb    | 208  | 51.023     | ug/L  | 0.651    | 1         | 160           | 2037696       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 04:00:58

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 30779         | 32214         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4052820       | 4285375       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 457643        | 460474        | 0           | Standard |
| Cr      | 52   | -0.019     | ug/L  | 0.019    | 103       | 14350         | 14153         | 1           | Standard |
| Cr      | 53   | 0.024      | ug/L  | 0.008    | 33        | 118           | 161           | 9           | Standard |
| Mn      | 55   | 0.068      | ug/L  | 0.001    | 1         | 638           | 2091          | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 26593         | 25513         | 0           | KED      |
| Ni      | 60   | -0.006     | ug/L  | 0.008    | 132       | 24            | 17            | 43          | KED      |
| Ni      | 62   | 0.017      | ug/L  | 0.018    | 106       | 4             | 6             | 41          | KED      |
| Cu      | 63   | 0.001      | ug/L  | 0.003    | 463       | 39            | 39            | 18          | KED      |
| Cu      | 65   | -0.001     | ug/L  | 0.009    | 871       | 28            | 26            | 48          | KED      |
| Zn      | 66   | -0.008     | ug/L  | 0.025    | 311       | 24            | 20            | 44          | KED      |
| Zn      | 67   | -0.029     | ug/L  | 0.032    | 108       | 3             | 1             | 100         | KED      |
| As      | 75   | -0.008     | ug/L  | 0.008    | 101       | 6             | 5             | 27          | KED      |
| [ Se    | 78   | -0.203     | ug/L  | 0.110    | 54        | 20            | 15            | 15          | KED      |
| Y       | 89   |            | ug/L  |          |           | 265146        | 255136        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 48            | 41            | 18          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7168          | 7171          | 1           | KED      |
| Cd      | 111  | 0.000      | ug/L  | 0.005    | 41016     | 3             | 3             | 25          | KED      |
| Cd      | 114  | 0.009      | ug/L  | 0.008    | 88        | 3             | 7             | 51          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 374013        | 364732        | 1           | Standard |
| Ag      | 107  | 0.005      | ug/L  | 0.001    | 27        | 48            | 113           | 15          | Standard |
| Ba      | 135  | -0.002     | ug/L  | 0.001    | 53        | 24            | 18            | 15          | Standard |
| [ Ba    | 137  | 0.001      | ug/L  | 0.001    | 99        | 29            | 35            | 17          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 624828        | 623703        | 0           | Standard |
| [ Pb    | 208  | -0.002     | ug/L  | 0.000    | 4         | 160           | 90            | 3           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 04:05:42

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           |               | 33004         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           |               | 4319075       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           |               | 460811        | 4           | Standard |
| Cr      | 52   |            | ug/L  |          |           |               | 14116         | 3           | Standard |
| Cr      | 53   |            | ug/L  |          |           |               | 169           | 4           | Standard |
| Mn      | 55   |            | ug/L  |          |           |               | 2166          | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           |               | 25853         | 1           | KED      |
| Ni      | 60   |            | ug/L  |          |           |               | 24            | 25          | KED      |
| Ni      | 62   |            | ug/L  |          |           |               | 9             | 40          | KED      |
| Cu      | 63   |            | ug/L  |          |           |               | 49            | 13          | KED      |
| Cu      | 65   |            | ug/L  |          |           |               | 27            | 49          | KED      |
| Zn      | 66   |            | ug/L  |          |           |               | 20            | 18          | KED      |
| Zn      | 67   |            | ug/L  |          |           |               | 4             | 24          | KED      |
| As      | 75   |            | ug/L  |          |           |               | 6             | 53          | KED      |
| Se      | 78   |            | ug/L  |          |           |               | 19            | 9           | KED      |
| Y       | 89   |            | ug/L  |          |           |               | 261932        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           |               | 49            | 23          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           |               | 7009          | 1           | KED      |
| Cd      | 111  |            | ug/L  |          |           |               | 4             | 49          | KED      |
| Cd      | 114  |            | ug/L  |          |           |               | 4             | 67          | KED      |
| [> In   | 115  |            | ug/L  |          |           |               | 367469        | 1           | Standard |
| Ag      | 107  |            | ug/L  |          |           |               | 86            | 7           | Standard |
| Ba      | 135  |            | ug/L  |          |           |               | 23            | 12          | Standard |
| Ba      | 137  |            | ug/L  |          |           |               | 37            | 28          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           |               | 619766        | 1           | Standard |
| Pb      | 208  |            | ug/L  |          |           |               | 178           | 8           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 04:10:27

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 32782         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4360848       | 2           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 460811        | 473915        | 1           | Standard |
| Cr      | 52   | 51.153     | ug/L  | 0.689    | 1         | 14116         | 809544        | 1           | Standard |
| Cr      | 53   | 51.603     | ug/L  | 1.299    | 2         | 169           | 92752         | 3           | Standard |
| Mn      | 55   | 51.017     | ug/L  | 1.808    | 3         | 2166          | 1115889       | 3           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 25853         | 26055         | 2           | KED      |
| Ni      | 60   | 49.670     | ug/L  | 0.813    | 1         | 24            | 49174         | 1           | KED      |
| Ni      | 62   | 49.225     | ug/L  | 1.447    | 2         | 9             | 7948          | 1           | KED      |
| Cu      | 63   | 49.591     | ug/L  | 1.159    | 2         | 49            | 143094        | 0           | KED      |
| Cu      | 65   | 49.880     | ug/L  | 2.041    | 4         | 27            | 71054         | 1           | KED      |
| Zn      | 66   | 50.574     | ug/L  | 1.053    | 2         | 20            | 18495         | 0           | KED      |
| Zn      | 67   | 50.246     | ug/L  | 2.763    | 5         | 4             | 3057          | 3           | KED      |
| As      | 75   | 50.182     | ug/L  | 0.917    | 1         | 6             | 9556          | 0           | KED      |
| [ Se    | 78   | 48.336     | ug/L  | 1.020    | 2         | 19            | 1052          | 1           | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 275085        | 3           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 45            | 24          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7009          | 7140          | 2           | KED      |
| Cd      | 111  | 51.327     | ug/L  | 2.083    | 4         | 4             | 10820         | 1           | KED      |
| Cd      | 114  | 50.634     | ug/L  | 1.051    | 2         | 4             | 26269         | 0           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 367469        | 367519        | 0           | Standard |
| Ag      | 107  | 50.798     | ug/L  | 0.518    | 1         | 86            | 622337        | 0           | Standard |
| Ba      | 135  | 52.243     | ug/L  | 1.323    | 2         | 23            | 160533        | 2           | Standard |
| [ Ba    | 137  | 51.698     | ug/L  | 0.504    | 0         | 37            | 281947        | 1           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 619766        | 638912        | 0           | Standard |
| [ Pb    | 208  | 51.639     | ug/L  | 0.927    | 1         | 178           | 2043728       | 1           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 04:17:55

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 31747         | 0           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4268227       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 460811        | 459880        | 0           | Standard |
| Cr      | 52   | -0.002     | ug/L  | 0.010    | 459       | 14116         | 14054         | 0           | Standard |
| Cr      | 53   | -0.019     | ug/L  | 0.009    | 45        | 169           | 135           | 10          | Standard |
| Mn      | 55   | -0.007     | ug/L  | 0.003    | 38        | 2166          | 2007          | 3           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 25853         | 25283         | 2           | KED      |
| Ni      | 60   | -0.007     | ug/L  | 0.004    | 55        | 24            | 17            | 19          | KED      |
| Ni      | 62   | -0.019     | ug/L  | 0.006    | 32        | 9             | 6             | 17          | KED      |
| Cu      | 63   | -0.002     | ug/L  | 0.003    | 123       | 49            | 42            | 14          | KED      |
| Cu      | 65   | -0.005     | ug/L  | 0.007    | 140       | 27            | 20            | 47          | KED      |
| Zn      | 66   | -0.013     | ug/L  | 0.011    | 85        | 20            | 15            | 24          | KED      |
| Zn      | 67   | -0.009     | ug/L  | 0.001    | 16        | 4             | 3             | 0           | KED      |
| As      | 75   | -0.000     | ug/L  | 0.011    | 39303     | 6             | 6             | 29          | KED      |
| Se      | 78   | -0.265     | ug/L  | 0.151    | 56        | 19            | 13            | 21          | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 254481        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 38            | 5           | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7009          | 6987          | 2           | KED      |
| Cd      | 111  | 0.003      | ug/L  | 0.003    | 86        | 4             | 5             | 10          | KED      |
| Cd      | 114  | -0.002     | ug/L  | 0.006    | 236       | 4             | 3             | 93          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 367469        | 360571        | 1           | Standard |
| Ag      | 107  | 0.001      | ug/L  | 0.001    | 44        | 86            | 102           | 8           | Standard |
| Ba      | 135  | -0.001     | ug/L  | 0.003    | 257       | 23            | 19            | 52          | Standard |
| Ba      | 137  | 0.001      | ug/L  | 0.001    | 137       | 37            | 41            | 14          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 619766        | 619374        | 1           | Standard |
| Pb      | 208  | -0.002     | ug/L  | 0.000    | 7         | 178           | 93            | 5           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0540-05**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 04:22:40**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 41923         | 3           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4470454       | 0           | Standard |
| Sc      | 45   |            | ug/L  |          |           | 460811        | 614291        | 1           | Standard |
| Cr      | 52   | -0.051     | ug/L  | 0.020    | 38        | 14116         | 17792         | 1           | Standard |
| Cr      | 53   | 0.425      | ug/L  | 0.027    | 6         | 169           | 1214          | 4           | Standard |
| Mn      | 55   | 196.088    | ug/L  | 0.763    | 0         | 2166          | 5551685       | 1           | Standard |
| Ge      | 72   |            | ug/L  |          |           | 25853         | 26529         | 0           | KED      |
| Ni      | 60   | 92.287     | ug/L  | 0.482    | 0         | 24            | 93018         | 0           | KED      |
| Ni      | 62   | 92.367     | ug/L  | 1.867    | 2         | 9             | 15184         | 2           | KED      |
| Cu      | 63   | 5.120      | ug/L  | 0.106    | 2         | 49            | 15093         | 2           | KED      |
| Cu      | 65   | 5.207      | ug/L  | 0.049    | 0         | 27            | 7582          | 0           | KED      |
| Zn      | 66   | 27.331     | ug/L  | 0.352    | 1         | 20            | 10190         | 1           | KED      |
| Zn      | 67   | 24.278     | ug/L  | 0.841    | 3         | 4             | 1507          | 2           | KED      |
| As      | 75   | 0.097      | ug/L  | 0.031    | 31        | 6             | 25            | 23          | KED      |
| Se      | 78   | 0.030      | ug/L  | 0.156    | 523       | 19            | 20            | 16          | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 333991        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 48            | 21          | Standard |
| In-1    | 115  |            | ug/L  |          |           | 7009          | 7158          | 1           | KED      |
| Cd      | 111  | 0.087      | ug/L  | 0.020    | 22        | 4             | 22            | 19          | KED      |
| Cd      | 114  | 0.091      | ug/L  | 0.012    | 13        | 4             | 51            | 11          | KED      |
| In      | 115  |            | ug/L  |          |           | 367469        | 366931        | 1           | Standard |
| Ag      | 107  | 0.002      | ug/L  | 0.001    | 27        | 86            | 114           | 5           | Standard |
| Ba      | 135  | 2.744      | ug/L  | 0.051    | 1         | 23            | 8438          | 0           | Standard |
| Ba      | 137  | 2.751      | ug/L  | 0.017    | 0         | 37            | 15015         | 1           | Standard |
| Tb      | 159  |            | ug/L  |          |           | 619766        | 640493        | 0           | Standard |
| Pb      | 208  | 0.026      | ug/L  | 0.000    | 1         | 178           | 1231          | 2           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0540-04RE1**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 04:27:18**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 37663         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4101745       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 460811        | 513678        | 0           | Standard |
| Cr      | 52   | -0.011     | ug/L  | 0.012    | 104       | 14116         | 15546         | 1           | Standard |
| Cr      | 53   | 0.253      | ug/L  | 0.012    | 4         | 169           | 680           | 2           | Standard |
| Mn      | 55   | 22.177     | ug/L  | 0.368    | 1         | 2166          | 527155        | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 25853         | 27295         | 1           | KED      |
| Ni      | 60   | 65.646     | ug/L  | 1.126    | 1         | 24            | 68085         | 2           | KED      |
| Ni      | 62   | 65.209     | ug/L  | 1.570    | 2         | 9             | 11029         | 1           | KED      |
| Cu      | 63   | 0.380      | ug/L  | 0.024    | 6         | 49            | 1201          | 4           | KED      |
| Cu      | 65   | 0.370      | ug/L  | 0.003    | 0         | 27            | 580           | 1           | KED      |
| Zn      | 66   | 0.853      | ug/L  | 0.108    | 12        | 20            | 348           | 11          | KED      |
| Zn      | 67   | 1.053      | ug/L  | 0.019    | 1         | 4             | 71            | 3           | KED      |
| As      | 75   | 0.036      | ug/L  | 0.003    | 9         | 6             | 14            | 3           | KED      |
| Se      | 78   | -0.216     | ug/L  | 0.068    | 31        | 19            | 15            | 9           | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 279470        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 53            | 8           | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7009          | 7613          | 1           | KED      |
| Cd      | 111  | -0.005     | ug/L  | 0.004    | 96        | 4             | 3             | 25          | KED      |
| Cd      | 114  | 0.006      | ug/L  | 0.005    | 87        | 4             | 8             | 35          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 367469        | 373477        | 1           | Standard |
| Ag      | 107  | -0.002     | ug/L  | 0.001    | 45        | 86            | 62            | 16          | Standard |
| Ba      | 135  | 0.537      | ug/L  | 0.004    | 0         | 23            | 1699          | 1           | Standard |
| Ba      | 137  | 0.555      | ug/L  | 0.020    | 3         | 37            | 3112          | 2           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 619766        | 639124        | 0           | Standard |
| Pb      | 208  | 0.010      | ug/L  | 0.001    | 5         | 178           | 590           | 4           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0540-02RE1**

Sample Dil Factor: **100**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 04:32:02**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 36347         | 3           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4026516       | 1           | Standard |
| > Sc    | 45   |            | ug/L  |          |           | 460811        | 487723        | 1           | Standard |
| Cr      | 52   | 0.178      | ug/L  | 0.026    | 14        | 14116         | 17785         | 1           | Standard |
| Cr      | 53   | 0.224      | ug/L  | 0.011    | 4         | 169           | 593           | 4           | Standard |
| Mn      | 55   | 3.017      | ug/L  | 0.090    | 2         | 2166          | 70066         | 1           | Standard |
| > Ge    | 72   |            | ug/L  |          |           | 25853         | 26881         | 1           | KED      |
| Ni      | 60   | 82.656     | ug/L  | 3.245    | 3         | 24            | 84403         | 3           | KED      |
| Ni      | 62   | 84.593     | ug/L  | 2.269    | 2         | 9             | 14088         | 1           | KED      |
| Cu      | 63   | 0.318      | ug/L  | 0.015    | 4         | 49            | 998           | 4           | KED      |
| Cu      | 65   | 0.287      | ug/L  | 0.007    | 2         | 27            | 449           | 1           | KED      |
| Zn      | 66   | 1.539      | ug/L  | 0.078    | 5         | 20            | 601           | 3           | KED      |
| Zn      | 67   | 1.537      | ug/L  | 0.386    | 25        | 4             | 100           | 23          | KED      |
| As      | 75   | -0.009     | ug/L  | 0.005    | 57        | 6             | 5             | 19          | KED      |
| Se      | 78   | -0.112     | ug/L  | 0.103    | 91        | 19            | 17            | 12          | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 274379        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 50            | 12          | Standard |
| > In-1  | 115  |            | ug/L  |          |           | 7009          | 7510          | 0           | KED      |
| Cd      | 111  | 0.004      | ug/L  | 0.012    | 264       | 4             | 5             | 44          | KED      |
| Cd      | 114  | 0.010      | ug/L  | 0.017    | 178       | 4             | 10            | 95          | KED      |
| > In    | 115  |            | ug/L  |          |           | 367469        | 367076        | 1           | Standard |
| Ag      | 107  | -0.002     | ug/L  | 0.001    | 60        | 86            | 65            | 18          | Standard |
| Ba      | 135  | 0.119      | ug/L  | 0.002    | 1         | 23            | 388           | 2           | Standard |
| Ba      | 137  | 0.130      | ug/L  | 0.008    | 5         | 37            | 745           | 3           | Standard |
| > Tb    | 159  |            | ug/L  |          |           | 619766        | 622227        | 1           | Standard |
| Pb      | 208  | 0.000      | ug/L  | 0.001    | 562       | 178           | 185           | 19          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0540-19RE1**

Sample Dil Factor: **100**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 04:36:46**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 33004         | 36739         | 1           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4319075       | 4040779       | 1           | Standard |
| > Sc    | 45   |               | ug/L  |          |           | 460811        | 473775        | 1           | Standard |
| Cr      | 52   | <b>0.007</b>  | ug/L  | 0.023    | 335       | 14116         | 14618         | 1           | Standard |
| Cr      | 53   | <b>0.045</b>  | ug/L  | 0.001    | 2         | 169           | 254           | 0           | Standard |
| Mn      | 55   | <b>3.327</b>  | ug/L  | 0.075    | 2         | 2166          | 74833         | 2           | Standard |
| > Ge    | 72   |               | ug/L  |          |           | 25853         | 26141         | 3           | KED      |
| Ni      | 60   | <b>91.807</b> | ug/L  | 4.114    | 4         | 24            | 91094         | 1           | KED      |
| Ni      | 62   | <b>90.544</b> | ug/L  | 4.069    | 4         | 9             | 14652         | 1           | KED      |
| Cu      | 63   | <b>0.192</b>  | ug/L  | 0.007    | 3         | 49            | 605           | 2           | KED      |
| Cu      | 65   | <b>0.198</b>  | ug/L  | 0.008    | 3         | 27            | 311           | 1           | KED      |
| Zn      | 66   | <b>0.614</b>  | ug/L  | 0.047    | 7         | 20            | 246           | 6           | KED      |
| Zn      | 67   | <b>0.587</b>  | ug/L  | 0.237    | 40        | 4             | 40            | 33          | KED      |
| As      | 75   | <b>-0.004</b> | ug/L  | 0.008    | 229       | 6             | 6             | 24          | KED      |
| Se      | 78   | <b>-0.112</b> | ug/L  | 0.063    | 56        | 19            | 17            | 9           | KED      |
| Y       | 89   |               | ug/L  |          |           | 261932        | 277435        | 1           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 49            | 41            | 13          | Standard |
| > In-1  | 115  |               | ug/L  |          |           | 7009          | 7331          | 1           | KED      |
| Cd      | 111  | <b>0.003</b>  | ug/L  | 0.009    | 266       | 4             | 5             | 36          | KED      |
| Cd      | 114  | <b>-0.005</b> | ug/L  | 0.000    | 2         | 4             | 1             | 2           | KED      |
| > In    | 115  |               | ug/L  |          |           | 367469        | 376919        | 1           | Standard |
| Ag      | 107  | <b>-0.002</b> | ug/L  | 0.001    | 68        | 86            | 67            | 22          | Standard |
| Ba      | 135  | <b>0.062</b>  | ug/L  | 0.004    | 6         | 23            | 218           | 5           | Standard |
| Ba      | 137  | <b>0.069</b>  | ug/L  | 0.005    | 6         | 37            | 426           | 5           | Standard |
| > Tb    | 159  |               | ug/L  |          |           | 619766        | 629393        | 1           | Standard |
| Pb      | 208  | <b>0.001</b>  | ug/L  | 0.001    | 60        | 178           | 233           | 14          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0540-03RE1**

Sample Dil Factor: **100**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 04:41:30**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 36667         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4049122       | 1           | Standard |
| > Sc    | 45   |            | ug/L  |          |           | 460811        | 481995        | 1           | Standard |
| Cr      | 52   | 0.027      | ug/L  | 0.024    | 88        | 14116         | 15194         | 3           | Standard |
| Cr      | 53   | 0.043      | ug/L  | 0.003    | 6         | 169           | 256           | 2           | Standard |
| Mn      | 55   | 3.142      | ug/L  | 0.079    | 2         | 2166          | 72038         | 3           | Standard |
| > Ge    | 72   |            | ug/L  |          |           | 25853         | 26383         | 0           | KED      |
| Ni      | 60   | 90.108     | ug/L  | 2.293    | 2         | 24            | 90323         | 2           | KED      |
| Ni      | 62   | 91.352     | ug/L  | 2.502    | 2         | 9             | 14934         | 2           | KED      |
| Cu      | 63   | 0.235      | ug/L  | 0.017    | 7         | 49            | 738           | 6           | KED      |
| Cu      | 65   | 0.245      | ug/L  | 0.041    | 16        | 27            | 381           | 15          | KED      |
| Zn      | 66   | 0.660      | ug/L  | 0.095    | 14        | 20            | 265           | 13          | KED      |
| Zn      | 67   | 0.483      | ug/L  | 0.295    | 61        | 4             | 34            | 52          | KED      |
| As      | 75   | -0.008     | ug/L  | 0.002    | 30        | 6             | 5             | 9           | KED      |
| Se      | 78   | -0.214     | ug/L  | 0.185    | 86        | 19            | 15            | 26          | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 274168        | 4           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 63            | 11          | Standard |
| > In-1  | 115  |            | ug/L  |          |           | 7009          | 7115          | 5           | KED      |
| Cd      | 111  | 0.007      | ug/L  | 0.015    | 204       | 4             | 6             | 50          | KED      |
| Cd      | 114  | -0.003     | ug/L  | 0.002    | 78        | 4             | 3             | 37          | KED      |
| > In    | 115  |            | ug/L  |          |           | 367469        | 372725        | 1           | Standard |
| Ag      | 107  | -0.002     | ug/L  | 0.001    | 56        | 86            | 68            | 14          | Standard |
| Ba      | 135  | 0.076      | ug/L  | 0.012    | 15        | 23            | 260           | 13          | Standard |
| Ba      | 137  | 0.070      | ug/L  | 0.005    | 7         | 37            | 423           | 5           | Standard |
| > Tb    | 159  |            | ug/L  |          |           | 619766        | 635641        | 2           | Standard |
| Pb      | 208  | 0.003      | ug/L  | 0.000    | 11        | 178           | 312           | 5           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0102-DUP3**

Sample Dil Factor: **100**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 04:46:14**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 33004         | 36185         | 2           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4319075       | 4017075       | 1           | Standard |
| [> Sc   | 45   |               | ug/L  |          |           | 460811        | 475756        | 1           | Standard |
| Cr      | 52   | -0.001        | ug/L  | 0.021    | 1936      | 14116         | 14554         | 1           | Standard |
| Cr      | 53   | 0.031         | ug/L  | 0.008    | 25        | 169           | 231           | 6           | Standard |
| Mn      | 55   | 2.999         | ug/L  | 0.074    | 2         | 2166          | 67951         | 2           | Standard |
| [> Ge   | 72   |               | ug/L  |          |           | 25853         | 26360         | 2           | KED      |
| Ni      | 60   | <b>86.847</b> | ug/L  | 1.142    | 1         | 24            | 86962         | 1           | KED      |
| Ni      | 62   | 86.357        | ug/L  | 1.949    | 2         | 9             | 14100         | 0           | KED      |
| Cu      | 63   | 0.225         | ug/L  | 0.017    | 7         | 49            | 705           | 5           | KED      |
| Cu      | 65   | 0.221         | ug/L  | 0.019    | 8         | 27            | 345           | 5           | KED      |
| Zn      | 66   | 0.563         | ug/L  | 0.046    | 8         | 20            | 229           | 5           | KED      |
| Zn      | 67   | 0.536         | ug/L  | 0.063    | 11        | 4             | 37            | 7           | KED      |
| As      | 75   | 0.008         | ug/L  | 0.006    | 71        | 6             | 8             | 11          | KED      |
| Se      | 78   | -0.234        | ug/L  | 0.122    | 51        | 19            | 14            | 16          | KED      |
| Y       | 89   |               | ug/L  |          |           | 261932        | 271424        | 0           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 49            | 40            | 16          | Standard |
| [> In-1 | 115  |               | ug/L  |          |           | 7009          | 7171          | 1           | KED      |
| Cd      | 111  | -0.003        | ug/L  | 0.005    | 134       | 4             | 3             | 25          | KED      |
| Cd      | 114  | 0.001         | ug/L  | 0.002    | 215       | 4             | 4             | 21          | KED      |
| [> In   | 115  |               | ug/L  |          |           | 367469        | 367357        | 0           | Standard |
| Ag      | 107  | -0.002        | ug/L  | 0.001    | 30        | 86            | 63            | 10          | Standard |
| Ba      | 135  | 0.071         | ug/L  | 0.011    | 15        | 23            | 241           | 13          | Standard |
| Ba      | 137  | 0.066         | ug/L  | 0.001    | 1         | 37            | 398           | 1           | Standard |
| [> Tb   | 159  |               | ug/L  |          |           | 619766        | 626814        | 2           | Standard |
| Pb      | 208  | 0.002         | ug/L  | 0.000    | 22        | 178           | 255           | 4           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0102-MS3**

Sample Dil Factor: **100**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 04:50:58**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 33004         | 36866         | 0           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4319075       | 4003855       | 3           | Standard |
| > Sc    | 45   |               | ug/L  |          |           | 460811        | 472439        | 1           | Standard |
| Cr      | 52   | <b>0.286</b>  | ug/L  | 0.016    | 5         | 14116         | 18903         | 2           | Standard |
| Cr      | 53   | <b>0.306</b>  | ug/L  | 0.014    | 4         | 169           | 720           | 4           | Standard |
| Mn      | 55   | <b>3.379</b>  | ug/L  | 0.051    | 1         | 2166          | 75753         | 1           | Standard |
| > Ge    | 72   |               | ug/L  |          |           | 25853         | 25959         | 2           | KED      |
| Ni STL  | 60   | <b>90.648</b> | ug/L  | 1.149    | 1         | 24            | 89421         | 3           | KED      |
| Ni      | 62   | <b>90.586</b> | ug/L  | 2.265    | 2         | 9             | 14571         | 3           | KED      |
| Cu      | 63   | <b>0.527</b>  | ug/L  | 0.019    | 3         | 49            | 1564          | 3           | KED      |
| Cu      | 65   | <b>0.508</b>  | ug/L  | 0.028    | 5         | 27            | 747           | 4           | KED      |
| Zn      | 66   | <b>1.532</b>  | ug/L  | 0.079    | 5         | 20            | 578           | 3           | KED      |
| Zn      | 67   | <b>1.397</b>  | ug/L  | 0.223    | 15        | 4             | 88            | 12          | KED      |
| As      | 75   | <b>0.268</b>  | ug/L  | 0.021    | 7         | 6             | 57            | 8           | KED      |
| Se      | 78   | <b>0.738</b>  | ug/L  | 0.043    | 5         | 19            | 35            | 4           | KED      |
| Y       | 89   |               | ug/L  |          |           | 261932        | 268181        | 1           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 49            | 41            | 14          | Standard |
| > In-1  | 115  |               | ug/L  |          |           | 7009          | 7167          | 1           | KED      |
| Cd      | 111  | <b>0.255</b>  | ug/L  | 0.043    | 16        | 4             | 58            | 13          | KED      |
| Cd      | 114  | <b>0.278</b>  | ug/L  | 0.018    | 6         | 4             | 149           | 4           | KED      |
| > In    | 115  |               | ug/L  |          |           | 367469        | 370778        | 2           | Standard |
| Ag      | 107  | <b>0.278</b>  | ug/L  | 0.004    | 1         | 86            | 3522          | 1           | Standard |
| Ba      | 135  | <b>0.372</b>  | ug/L  | 0.020    | 5         | 23            | 1174          | 3           | Standard |
| Ba      | 137  | <b>0.353</b>  | ug/L  | 0.014    | 4         | 37            | 1976          | 2           | Standard |
| > Tb    | 159  |               | ug/L  |          |           | 619766        | 630522        | 1           | Standard |
| Pb      | 208  | <b>0.293</b>  | ug/L  | 0.002    | 0         | 178           | 11632         | 1           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0102-MSD3**

Sample Dil Factor: **100**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 04:55:36**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte       | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C             | 13   |               | ug/L  |          |           | 33004         | 36586         | 4           | Standard |
| Cl            | 37   |               | ug/L  |          |           | 4319075       | 4024918       | 1           | Standard |
| [> Sc         | 45   |               | ug/L  |          |           | 460811        | 470193        | 1           | Standard |
| Cr            | 52   | <b>0.318</b>  | ug/L  | 0.011    | 3         | 14116         | 19304         | 0           | Standard |
| Cr            | 53   | <b>0.318</b>  | ug/L  | 0.008    | 2         | 169           | 738           | 1           | Standard |
| Mn            | 55   | <b>3.404</b>  | ug/L  | 0.097    | 2         | 2166          | 75926         | 2           | Standard |
| [> Ge         | 72   |               | ug/L  |          |           | 25853         | 25434         | 3           | KED      |
| <b>Ni</b> STL | 60   | <b>89.149</b> | ug/L  | 1.403    | 1         | 24            | 86121         | 1           | KED      |
| Ni            | 62   | <b>90.481</b> | ug/L  | 3.327    | 3         | 9             | 14254         | 3           | KED      |
| Cu            | 63   | <b>0.514</b>  | ug/L  | 0.016    | 3         | 49            | 1498          | 5           | KED      |
| Cu            | 65   | <b>0.505</b>  | ug/L  | 0.018    | 3         | 27            | 729           | 5           | KED      |
| Zn            | 66   | <b>1.625</b>  | ug/L  | 0.082    | 5         | 20            | 600           | 5           | KED      |
| Zn            | 67   | <b>1.209</b>  | ug/L  | 0.057    | 4         | 4             | 76            | 7           | KED      |
| As            | 75   | <b>0.259</b>  | ug/L  | 0.023    | 8         | 6             | 54            | 4           | KED      |
| Se            | 78   | <b>0.828</b>  | ug/L  | 0.338    | 40        | 19            | 36            | 16          | KED      |
| Y             | 89   |               | ug/L  |          |           | 261932        | 271213        | 1           | Standard |
| Kr            | 83   |               | ug/L  |          |           | 49            | 40            | 25          | Standard |
| [> In-1       | 115  |               | ug/L  |          |           | 7009          | 7293          | 2           | KED      |
| Cd            | 111  | <b>0.277</b>  | ug/L  | 0.029    | 10        | 4             | 64            | 11          | KED      |
| Cd            | 114  | <b>0.327</b>  | ug/L  | 0.053    | 16        | 4             | 178           | 18          | KED      |
| [> In         | 115  |               | ug/L  |          |           | 367469        | 374126        | 3           | Standard |
| Ag            | 107  | <b>0.256</b>  | ug/L  | 0.012    | 4         | 86            | 3273          | 3           | Standard |
| Ba            | 135  | <b>0.346</b>  | ug/L  | 0.017    | 4         | 23            | 1104          | 3           | Standard |
| Ba            | 137  | <b>0.345</b>  | ug/L  | 0.020    | 5         | 37            | 1951          | 2           | Standard |
| [> Tb         | 159  |               | ug/L  |          |           | 619766        | 630786        | 0           | Standard |
| Pb            | 208  | <b>0.288</b>  | ug/L  | 0.005    | 1         | 178           | 11433         | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0540-04**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 05:00:44**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 51116         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4825591       | 0           | Standard |
| Sc      | 45   |            | ug/L  |          |           | 460811        | 646750        | 0           | Standard |
| Cr      | 52   | 0.164      | ug/L  | 0.017    | 10        | 14116         | 23298         | 1           | Standard |
| Cr      | 53   | 1.522      | ug/L  | 0.019    | 1         | 169           | 3965          | 1           | Standard |
| Mn      | 55   | 173.345    | ug/L  | 2.408    | 1         | 2166          | 5167081       | 0           | Standard |
| Ge      | 72   |            | ug/L  |          |           | 25853         | 25659         | 1           | KED      |
| Ni      | 60   | 633.121    | ug/L  | 22.346   | 3         | 24            | 616890        | 2           | KED      |
| Ni      | 62   | 650.090    | ug/L  | 8.706    | 1         | 9             | 103292        | 0           | KED      |
| Cu      | 63   | 3.667      | ug/L  | 0.152    | 4         | 49            | 10468         | 3           | KED      |
| Cu      | 65   | 3.667      | ug/L  | 0.060    | 1         | 27            | 5172          | 1           | KED      |
| Zn      | 66   | 7.365      | ug/L  | 0.339    | 4         | 20            | 2670          | 3           | KED      |
| Zn      | 67   | 7.308      | ug/L  | 0.828    | 11        | 4             | 441           | 10          | KED      |
| As      | 75   | 0.328      | ug/L  | 0.007    | 2         | 6             | 68            | 1           | KED      |
| Se      | 78   | -0.110     | ug/L  | 0.095    | 86        | 19            | 17            | 13          | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 286500        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 44            | 6           | Standard |
| In-1    | 115  |            | ug/L  |          |           | 7009          | 7060          | 0           | KED      |
| Cd      | 111  | 0.033      | ug/L  | 0.032    | 96        | 4             | 11            | 58          | KED      |
| Cd      | 114  | 0.025      | ug/L  | 0.014    | 57        | 4             | 17            | 42          | KED      |
| In      | 115  |            | ug/L  |          |           | 367469        | 355694        | 2           | Standard |
| Ag      | 107  | -0.001     | ug/L  | 0.001    | 98        | 86            | 67            | 21          | Standard |
| Ba      | 135  | 5.589      | ug/L  | 0.197    | 3         | 23            | 16635         | 2           | Standard |
| Ba      | 137  | 5.645      | ug/L  | 0.084    | 1         | 37            | 29822         | 0           | Standard |
| Tb      | 159  |            | ug/L  |          |           | 619766        | 628451        | 0           | Standard |
| Pb      | 208  | 0.112      | ug/L  | 0.001    | 0         | 178           | 4559          | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLH

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 05:05:53

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 34075         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4063507       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 460811        | 461242        | 1           | Standard |
| Cr      | 52   | 0.023      | ug/L  | 0.036    | 154       | 14116         | 14476         | 2           | Standard |
| Cr      | 53   | 0.053      | ug/L  | 0.011    | 21        | 169           | 261           | 6           | Standard |
| Mn      | 55   | -0.016     | ug/L  | 0.001    | 7         | 2166          | 1824          | 0           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 25853         | 24995         | 4           | KED      |
| Ni      | 60   | 0.003      | ug/L  | 0.008    | 254       | 24            | 26            | 25          | KED      |
| Ni      | 62   | -0.002     | ug/L  | 0.025    | 1181      | 9             | 8             | 44          | KED      |
| Cu      | 63   | 0.003      | ug/L  | 0.002    | 62        | 49            | 56            | 5           | KED      |
| Cu      | 65   | -0.001     | ug/L  | 0.000    | 55        | 27            | 25            | 4           | KED      |
| Zn      | 66   | 0.034      | ug/L  | 0.006    | 18        | 20            | 32            | 10          | KED      |
| Zn      | 67   | -0.009     | ug/L  | 0.030    | 320       | 4             | 3             | 50          | KED      |
| As      | 75   | -0.002     | ug/L  | 0.007    | 347       | 6             | 6             | 19          | KED      |
| Se      | 78   | -0.074     | ug/L  | 0.105    | 143       | 19            | 17            | 9           | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 257011        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 43            | 19          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7009          | 7149          | 4           | KED      |
| Cd      | 111  | -0.005     | ug/L  | 0.013    | 253       | 4             | 3             | 83          | KED      |
| Cd      | 114  | -0.003     | ug/L  | 0.002    | 84        | 4             | 3             | 36          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 367469        | 357880        | 1           | Standard |
| Ag      | 107  | -0.003     | ug/L  | 0.001    | 16        | 86            | 46            | 12          | Standard |
| Ba      | 135  | 0.004      | ug/L  | 0.005    | 119       | 23            | 36            | 44          | Standard |
| Ba      | 137  | 0.004      | ug/L  | 0.002    | 44        | 37            | 60            | 19          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 619766        | 601879        | 1           | Standard |
| Pb      | 208  | 0.001      | ug/L  | 0.001    | 40        | 178           | 222           | 8           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 05:10:37

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 32551         | 0           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4275162       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 460811        | 479626        | 0           | Standard |
| Cr      | 52   | 51.362     | ug/L  | 0.483    | 0         | 14116         | 822693        | 1           | Standard |
| Cr      | 53   | 51.625     | ug/L  | 0.607    | 1         | 169           | 93910         | 1           | Standard |
| Mn      | 55   | 51.295     | ug/L  | 0.961    | 1         | 2166          | 1135632       | 2           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 25853         | 25769         | 0           | KED      |
| Ni      | 60   | 49.917     | ug/L  | 0.627    | 1         | 24            | 48886         | 2           | KED      |
| Ni      | 62   | 50.714     | ug/L  | 1.481    | 2         | 9             | 8100          | 2           | KED      |
| Cu      | 63   | 50.369     | ug/L  | 1.026    | 2         | 49            | 143802        | 2           | KED      |
| Cu      | 65   | 51.012     | ug/L  | 0.736    | 1         | 27            | 71918         | 2           | KED      |
| Zn      | 66   | 51.730     | ug/L  | 1.180    | 2         | 20            | 18714         | 2           | KED      |
| Zn      | 67   | 51.604     | ug/L  | 0.508    | 0         | 4             | 3107          | 1           | KED      |
| As      | 75   | 49.595     | ug/L  | 0.487    | 0         | 6             | 9343          | 1           | KED      |
| [ Se    | 78   | 47.942     | ug/L  | 0.956    | 1         | 19            | 1032          | 2           | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 273486        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 59            | 14          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7009          | 7011          | 1           | KED      |
| Cd      | 111  | 51.551     | ug/L  | 1.064    | 2         | 4             | 10677         | 1           | KED      |
| Cd      | 114  | 51.306     | ug/L  | 1.130    | 2         | 4             | 26139         | 0           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 367469        | 366167        | 1           | Standard |
| Ag      | 107  | 50.660     | ug/L  | 1.542    | 3         | 86            | 618190        | 1           | Standard |
| Ba      | 135  | 51.293     | ug/L  | 1.397    | 2         | 23            | 156982        | 1           | Standard |
| [ Ba    | 137  | 50.773     | ug/L  | 1.281    | 2         | 37            | 275811        | 1           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 619766        | 631969        | 1           | Standard |
| [ Pb    | 208  | 52.046     | ug/L  | 1.150    | 2         | 178           | 2037080       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 05:18:06

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 32482         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4263500       | 2           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 460811        | 460713        | 1           | Standard |
| Cr      | 52   | 0.015      | ug/L  | 0.004    | 30        | 14116         | 14336         | 1           | Standard |
| Cr      | 53   | 0.012      | ug/L  | 0.003    | 20        | 169           | 191           | 1           | Standard |
| Mn      | 55   | -0.027     | ug/L  | 0.001    | 4         | 2166          | 1593          | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 25853         | 25100         | 1           | KED      |
| Ni      | 60   | 0.040      | ug/L  | 0.059    | 148       | 24            | 61            | 93          | KED      |
| Ni      | 62   | 0.002      | ug/L  | 0.048    | 3071      | 9             | 9             | 80          | KED      |
| Cu      | 63   | 0.009      | ug/L  | 0.020    | 230       | 49            | 72            | 77          | KED      |
| Cu      | 65   | 0.013      | ug/L  | 0.034    | 264       | 27            | 44            | 106         | KED      |
| Zn      | 66   | 0.023      | ug/L  | 0.015    | 65        | 20            | 28            | 20          | KED      |
| Zn      | 67   | 0.002      | ug/L  | 0.018    | 857       | 4             | 4             | 24          | KED      |
| As      | 75   | 0.019      | ug/L  | 0.028    | 149       | 6             | 10            | 53          | KED      |
| Se      | 78   | -0.088     | ug/L  | 0.123    | 139       | 19            | 17            | 16          | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 262957        | 4           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 47            | 14          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7009          | 6823          | 2           | KED      |
| Cd      | 111  | -0.009     | ug/L  | 0.003    | 29        | 4             | 2             | 21          | KED      |
| Cd      | 114  | -0.007     | ug/L  | 0.002    | 32        | 4             | 0             | 237         | KED      |
| [> In   | 115  |            | ug/L  |          |           | 367469        | 357348        | 2           | Standard |
| Ag      | 107  | 0.000      | ug/L  | 0.001    | 232       | 86            | 88            | 10          | Standard |
| Ba      | 135  | 0.001      | ug/L  | 0.004    | 297       | 23            | 27            | 49          | Standard |
| Ba      | 137  | 0.001      | ug/L  | 0.003    | 333       | 37            | 41            | 39          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 619766        | 611681        | 1           | Standard |
| Pb      | 208  | -0.002     | ug/L  | 0.000    | 4         | 178           | 85            | 5           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0512-07**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 05:22:50**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 33004         | 43811         | 2           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4319075       | 4080520       | 2           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 460811        | 550677        | 0           | Standard |
| Cr      | 52   | <b>0.107</b>   | ug/L  | 0.021    | 19        | 14116         | 18800         | 1           | Standard |
| Cr      | 53   | <b>0.254</b>   | ug/L  | 0.006    | 2         | 169           | 733           | 1           | Standard |
| Mn      | 55   | <b>18.538</b>  | ug/L  | 0.478    | 2         | 2166          | 472769        | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 25853         | 25182         | 1           | KED      |
| Ni      | 60   | <b>0.064</b>   | ug/L  | 0.009    | 14        | 24            | 84            | 9           | KED      |
| Ni      | 62   | <b>-0.002</b>  | ug/L  | 0.026    | 1107      | 9             | 8             | 44          | KED      |
| Cu      | 63   | <b>0.102</b>   | ug/L  | 0.006    | 6         | 49            | 331           | 4           | KED      |
| Cu      | 65   | <b>0.117</b>   | ug/L  | 0.024    | 20        | 27            | 187           | 17          | KED      |
| Zn      | 66   | <b>0.530</b>   | ug/L  | 0.016    | 3         | 20            | 207           | 1           | KED      |
| Zn      | 67   | <b>9.757</b>   | ug/L  | 0.162    | 1         | 4             | 577           | 3           | KED      |
| As      | 75   | <b>0.014</b>   | ug/L  | 0.013    | 96        | 6             | 9             | 27          | KED      |
| Se      | 78   | <b>-0.203</b>  | ug/L  | 0.155    | 76        | 19            | 14            | 20          | KED      |
| Y       | 89   |                | ug/L  |          |           | 261932        | 275929        | 2           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 49            | 50            | 9           | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 7009          | 7032          | 1           | KED      |
| Cd      | 111  | <b>-0.002</b>  | ug/L  | 0.012    | 784       | 4             | 4             | 58          | KED      |
| Cd      | 114  | <b>0.001</b>   | ug/L  | 0.006    | 515       | 4             | 4             | 58          | KED      |
| > In    | 115  |                | ug/L  |          |           | 367469        | 361282        | 0           | Standard |
| Ag      | 107  | <b>0.001</b>   | ug/L  | 0.001    | 86        | 86            | 102           | 14          | Standard |
| Ba      | 135  | <b>108.408</b> | ug/L  | 0.746    | 0         | 23            | 327421        | 0           | Standard |
| Ba      | 137  | <b>107.040</b> | ug/L  | 2.728    | 2         | 37            | 573795        | 2           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 619766        | 623401        | 0           | Standard |
| Pb      | 208  | <b>0.009</b>   | ug/L  | 0.000    | 5         | 178           | 522           | 3           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0512-08**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 05:27:35**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 33004         | 47768         | 1           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4319075       | 4164946       | 1           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 460811        | 547613        | 0           | Standard |
| Cr      | 52   | <b>0.068</b>   | ug/L  | 0.025    | 36        | 14116         | 18003         | 2           | Standard |
| Cr      | 53   | <b>0.171</b>   | ug/L  | 0.014    | 7         | 169           | 557           | 4           | Standard |
| Mn      | 55   | <b>582.983</b> | ug/L  | 6.242    | 1         | 2166          | 14708901      | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 25853         | 22998         | 1           | KED      |
| Ni      | 60   | <b>9.196</b>   | ug/L  | 0.169    | 1         | 24            | 8053          | 0           | KED      |
| Ni      | 62   | <b>9.111</b>   | ug/L  | 0.355    | 3         | 9             | 1305          | 2           | KED      |
| Cu      | 63   | <b>0.081</b>   | ug/L  | 0.007    | 9         | 49            | 251           | 8           | KED      |
| Cu      | 65   | <b>0.085</b>   | ug/L  | 0.011    | 13        | 27            | 130           | 11          | KED      |
| Zn      | 66   | <b>0.924</b>   | ug/L  | 0.062    | 6         | 20            | 316           | 6           | KED      |
| Zn      | 67   | <b>3.451</b>   | ug/L  | 0.255    | 7         | 4             | 189           | 7           | KED      |
| As      | 75   | <b>1.430</b>   | ug/L  | 0.090    | 6         | 6             | 246           | 4           | KED      |
| Se      | 78   | <b>-0.157</b>  | ug/L  | 0.089    | 56        | 19            | 14            | 10          | KED      |
| Y       | 89   |                | ug/L  |          |           | 261932        | 269890        | 0           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 49            | 78            | 7           | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 7009          | 6363          | 1           | KED      |
| Cd      | 111  | <b>0.007</b>   | ug/L  | 0.003    | 43        | 4             | 5             | 10          | KED      |
| Cd      | 114  | <b>-0.005</b>  | ug/L  | 0.004    | 87        | 4             | 1             | 106         | KED      |
| > In    | 115  |                | ug/L  |          |           | 367469        | 326201        | 2           | Standard |
| Ag      | 107  | <b>-0.003</b>  | ug/L  | 0.001    | 48        | 86            | 48            | 28          | Standard |
| Ba      | 135  | <b>42.055</b>  | ug/L  | 1.105    | 2         | 23            | 114661        | 1           | Standard |
| Ba      | 137  | <b>41.375</b>  | ug/L  | 1.093    | 2         | 37            | 200227        | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 619766        | 591966        | 0           | Standard |
| Pb      | 208  | <b>0.009</b>   | ug/L  | 0.002    | 16        | 178           | 513           | 10          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0512-09**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 05:32:19**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 33004         | 48354         | 1           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4319075       | 4388967       | 0           | Standard |
| Sc      | 45   |                | ug/L  |          |           | 460811        | 580415        | 1           | Standard |
| Cr      | 52   | <b>0.089</b>   | ug/L  | 0.013    | 14        | 14116         | 19480         | 2           | Standard |
| Cr      | 53   | <b>0.219</b>   | ug/L  | 0.006    | 2         | 169           | 695           | 2           | Standard |
| Mn      | 55   | <b>337.174</b> | ug/L  | 7.794    | 2         | 2166          | 9015891       | 1           | Standard |
| Ge      | 72   |                | ug/L  |          |           | 25853         | 24540         | 1           | KED      |
| Ni      | 60   | <b>0.249</b>   | ug/L  | 0.023    | 9         | 24            | 255           | 7           | KED      |
| Ni      | 62   | <b>0.254</b>   | ug/L  | 0.037    | 14        | 9             | 47            | 10          | KED      |
| Cu      | 63   | <b>0.078</b>   | ug/L  | 0.006    | 8         | 49            | 257           | 6           | KED      |
| Cu      | 65   | <b>0.097</b>   | ug/L  | 0.006    | 6         | 27            | 155           | 4           | KED      |
| Zn      | 66   | <b>1.847</b>   | ug/L  | 0.090    | 4         | 20            | 655           | 3           | KED      |
| Zn      | 67   | <b>15.965</b>  | ug/L  | 0.685    | 4         | 4             | 918           | 2           | KED      |
| As      | 75   | <b>3.212</b>   | ug/L  | 0.190    | 5         | 6             | 581           | 4           | KED      |
| Se      | 78   | <b>-0.210</b>  | ug/L  | 0.162    | 77        | 19            | 14            | 22          | KED      |
| Y       | 89   |                | ug/L  |          |           | 261932        | 280208        | 1           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 49            | 55            | 24          | Standard |
| In-1    | 115  |                | ug/L  |          |           | 7009          | 6688          | 4           | KED      |
| Cd      | 111  | <b>0.003</b>   | ug/L  | 0.006    | 207       | 4             | 4             | 20          | KED      |
| Cd      | 114  | <b>0.001</b>   | ug/L  | 0.005    | 629       | 4             | 4             | 49          | KED      |
| In      | 115  |                | ug/L  |          |           | 367469        | 348399        | 1           | Standard |
| Ag      | 107  | <b>-0.002</b>  | ug/L  | 0.000    | 21        | 86            | 57            | 8           | Standard |
| Ba      | 135  | <b>191.211</b> | ug/L  | 1.460    | 0         | 23            | 556919        | 1           | Standard |
| Ba      | 137  | <b>192.356</b> | ug/L  | 3.133    | 1         | 37            | 994261        | 0           | Standard |
| Tb      | 159  |                | ug/L  |          |           | 619766        | 616198        | 0           | Standard |
| Pb      | 208  | <b>0.054</b>   | ug/L  | 0.002    | 4         | 178           | 2238          | 4           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0512-10**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 05:37:03**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD     | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|--------------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |              |           | 33004         | 51624         | 2           | Standard |
| Cl      | 37   |                | ug/L  |              |           | 4319075       | 4478676       | 1           | Standard |
| > Sc    | 45   |                | ug/L  |              |           | 460811        | 561764        | 0           | Standard |
| Cr      | 52   | <b>0.175</b>   | ug/L  | 0.006        | 3         | 14116         | 20433         | 0           | Standard |
| Cr      | 53   | <b>0.278</b>   | ug/L  | 0.011        | 3         | 169           | 799           | 2           | Standard |
| Mn      | 55   | <b>154.249</b> | ug/L  | 4.631        | 3         | 2166          | 3994066       | 2           | Standard |
| > Ge    | 72   |                | ug/L  |              |           | 25853         | 24273         | 2           | KED      |
| Ni      | 60   | <b>0.207</b>   | ug/L  | 0.004        | 1         | 24            | 213           | 1           | KED      |
| Ni      | 62   | <b>0.199</b>   | ug/L  | 0.062        | 30        | 9             | 38            | 22          | KED      |
| Cu      | 63   | <b>0.022</b>   | ug/L  | 0.006        | 27        | 49            | 105           | 17          | KED      |
| Cu      | 65   | <b>0.073</b>   | ug/L  | 0.015        | 20        | 27            | 122           | 15          | KED      |
| Zn      | 66   | <b>0.273</b>   | ug/L  | 0.049        | 17        | 20            | 112           | 13          | KED      |
| Zn      | 67   | <b>25.527</b>  | ug/L  | 1.532        | 6         | 4             | 1448          | 3           | KED      |
| As      | 75   | <b>8.435</b>   | ug/L  | 0.087        | 1         | 6             | 1501          | 1           | KED      |
| Se      | 78   | <b>-0.165</b>  | ug/L  | <u>0.233</u> | 141       | 19            | 14            | 28          | KED      |
| Y       | 89   |                | ug/L  |              |           | 261932        | 277910        | 0           | Standard |
| Kr      | 83   |                | ug/L  |              |           | 49            | 50            | 12          | Standard |
| > In-1  | 115  |                | ug/L  |              |           | 7009          | 6615          | 2           | KED      |
| Cd      | 111  | <b>-0.005</b>  | ug/L  | 0.005        | 102       | 4             | 3             | 34          | KED      |
| Cd      | 114  | <b>-0.006</b>  | ug/L  | 0.002        | 37        | 4             | 1             | 99          | KED      |
| > In    | 115  |                | ug/L  |              |           | 367469        | 350721        | 0           | Standard |
| Ag      | 107  | <b>-0.003</b>  | ug/L  | 0.001        | 22        | 86            | 53            | 12          | Standard |
| Ba      | 135  | <b>321.821</b> | ug/L  | 4.367        | 1         | 23            | 943491        | 0           | Standard |
| Ba      | 137  | <b>321.092</b> | ug/L  | 0.935        | 0         | 37            | 1670916       | 0           | Standard |
| > Tb    | 159  |                | ug/L  |              |           | 619766        | 613978        | 0           | Standard |
| Pb      | 208  | <b>0.001</b>   | ug/L  | 0.000        | 31        | 178           | 215           | 6           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0512-11**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 05:41:47**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 33004         | 48792         | 4           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4319075       | 4357448       | 3           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 460811        | 559700        | 1           | Standard |
| Cr      | 52   | <b>0.372</b>   | ug/L  | 0.016    | 4         | 14116         | 23980         | 1           | Standard |
| Cr      | 53   | <b>0.511</b>   | ug/L  | 0.011    | 2         | 169           | 1288          | 2           | Standard |
| Mn      | 55   | <b>138.174</b> | ug/L  | 1.582    | 1         | 2166          | 3564680       | 0           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 25853         | 24319         | 0           | KED      |
| Ni      | 60   | <b>0.400</b>   | ug/L  | 0.005    | 1         | 24            | 392           | 1           | KED      |
| Ni      | 62   | <b>0.379</b>   | ug/L  | 0.065    | 17        | 9             | 66            | 14          | KED      |
| Cu      | 63   | <b>0.048</b>   | ug/L  | 0.007    | 13        | 49            | 175           | 9           | KED      |
| Cu      | 65   | <b>0.111</b>   | ug/L  | 0.021    | 19        | 27            | 172           | 15          | KED      |
| Zn      | 66   | <b>0.458</b>   | ug/L  | 0.060    | 13        | 20            | 175           | 11          | KED      |
| Zn      | 67   | <b>37.885</b>  | ug/L  | 1.293    | 3         | 4             | 2153          | 2           | KED      |
| As      | 75   | <b>2.105</b>   | ug/L  | 0.045    | 2         | 6             | 380           | 1           | KED      |
| Se      | 78   | <b>-0.251</b>  | ug/L  | 0.039    | 15        | 19            | 13            | 5           | KED      |
| Y       | 89   |                | ug/L  |          |           | 261932        | 278209        | 1           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 49            | 59            | 20          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 7009          | 6253          | 10          | KED      |
| Cd      | 111  | <b>-0.004</b>  | ug/L  | 0.007    | 168       | 4             | 3             | 45          | KED      |
| Cd      | 114  | <b>0.001</b>   | ug/L  | 0.002    | 255       | 4             | 4             | 27          | KED      |
| > In    | 115  |                | ug/L  |          |           | 367469        | 345516        | 2           | Standard |
| Ag      | 107  | <b>-0.002</b>  | ug/L  | 0.001    | 24        | 86            | 55            | 11          | Standard |
| Ba      | 135  | <b>509.020</b> | ug/L  | 18.982   | 3         | 23            | 1469345       | 1           | Standard |
| Ba      | 137  | <b>526.071</b> | ug/L  | 2.695    | 0         | 37            | 2696749       | 1           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 619766        | 622628        | 0           | Standard |
| Pb      | 208  | <b>0.005</b>   | ug/L  | 0.000    | 6         | 178           | 365           | 3           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0539-02**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 05:46:25**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 33004         | 49055         | 2           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4319075       | 4263107       | 2           | Standard |
| > Sc    | 45   |               | ug/L  |          |           | 460811        | 549154        | 1           | Standard |
| Cr      | 52   | <b>0.319</b>  | ug/L  | 0.023    | 7         | 14116         | 22569         | 2           | Standard |
| Cr      | 53   | <b>0.365</b>  | ug/L  | 0.022    | 6         | 169           | 961           | 3           | Standard |
| Mn      | 55   | <b>21.278</b> | ug/L  | 0.535    | 2         | 2166          | 540704        | 1           | Standard |
| > Ge    | 72   |               | ug/L  |          |           | 25853         | 25493         | 3           | KED      |
| Ni      | 60   | <b>0.551</b>  | ug/L  | 0.042    | 7         | 24            | 557           | 8           | KED      |
| Ni      | 62   | <b>0.568</b>  | ug/L  | 0.005    | 0         | 9             | 99            | 3           | KED      |
| Cu      | 63   | <b>0.391</b>  | ug/L  | 0.023    | 5         | 49            | 1153          | 6           | KED      |
| Cu      | 65   | <b>0.392</b>  | ug/L  | 0.033    | 8         | 27            | 574           | 10          | KED      |
| Zn      | 66   | <b>1.659</b>  | ug/L  | 0.076    | 4         | 20            | 613           | 3           | KED      |
| Zn      | 67   | <b>5.933</b>  | ug/L  | 0.240    | 4         | 4             | 357           | 5           | KED      |
| As      | 75   | <b>0.604</b>  | ug/L  | 0.007    | 1         | 6             | 119           | 2           | KED      |
| Se      | 78   | <b>-0.259</b> | ug/L  | 0.100    | 38        | 19            | 13            | 12          | KED      |
| Y       | 89   |               | ug/L  |          |           | 261932        | 275926        | 1           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 49            | 55            | 23          | Standard |
| > In-1  | 115  |               | ug/L  |          |           | 7009          | 6903          | 3           | KED      |
| Cd      | 111  | <b>-0.001</b> | ug/L  | 0.007    | 635       | 4             | 4             | 35          | KED      |
| Cd      | 114  | <b>0.014</b>  | ug/L  | 0.007    | 53        | 4             | 11            | 30          | KED      |
| > In    | 115  |               | ug/L  |          |           | 367469        | 357816        | 1           | Standard |
| Ag      | 107  | <b>0.087</b>  | ug/L  | 0.007    | 7         | 86            | 1125          | 7           | Standard |
| Ba      | 135  | <b>60.107</b> | ug/L  | 1.553    | 2         | 23            | 179765        | 1           | Standard |
| Ba      | 137  | <b>61.027</b> | ug/L  | 0.486    | 0         | 37            | 324037        | 1           | Standard |
| > Tb    | 159  |               | ug/L  |          |           | 619766        | 626123        | 0           | Standard |
| Pb      | 208  | <b>0.026</b>  | ug/L  | 0.001    | 4         | 178           | 1200          | 4           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0539-03**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 05:51:09**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 49292         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4327392       | 1           | Standard |
| > Sc    | 45   |            | ug/L  |          |           | 460811        | 524705        | 1           | Standard |
| Cr      | 52   | 0.041      | ug/L  | 0.022    | 52        | 14116         | 16776         | 1           | Standard |
| Cr      | 53   | 0.122      | ug/L  | 0.013    | 10        | 169           | 435           | 5           | Standard |
| Mn      | 55   | 169.299    | ug/L  | 2.033    | 1         | 2166          | 4094484       | 1           | Standard |
| > Ge    | 72   |            | ug/L  |          |           | 25853         | 23927         | 1           | KED      |
| Ni      | 60   | 0.176      | ug/L  | 0.029    | 16        | 24            | 182           | 13          | KED      |
| Ni      | 62   | 0.112      | ug/L  | 0.012    | 11        | 9             | 25            | 8           | KED      |
| Cu      | 63   | 0.074      | ug/L  | 0.010    | 13        | 49            | 241           | 9           | KED      |
| Cu      | 65   | 0.088      | ug/L  | 0.013    | 15        | 27            | 140           | 11          | KED      |
| Zn      | 66   | 0.609      | ug/L  | 0.041    | 6         | 20            | 223           | 5           | KED      |
| Zn      | 67   | 19.238     | ug/L  | 1.051    | 5         | 4             | 1078          | 5           | KED      |
| As      | 75   | 0.067      | ug/L  | 0.008    | 12        | 6             | 17            | 10          | KED      |
| Se      | 78   | -0.210     | ug/L  | 0.151    | 72        | 19            | 13            | 22          | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 264544        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 50            | 16          | Standard |
| > In-1  | 115  |            | ug/L  |          |           | 7009          | 6744          | 1           | KED      |
| Cd      | 111  | -0.009     | ug/L  | 0.003    | 30        | 4             | 2             | 21          | KED      |
| Cd      | 114  | 0.001      | ug/L  | 0.008    | 586       | 4             | 4             | 81          | KED      |
| > In    | 115  |            | ug/L  |          |           | 367469        | 332323        | 0           | Standard |
| Ag      | 107  | -0.002     | ug/L  | 0.000    | 21        | 86            | 58            | 6           | Standard |
| Ba      | 135  | 242.332    | ug/L  | 1.438    | 0         | 23            | 673232        | 1           | Standard |
| Ba      | 137  | 240.629    | ug/L  | 2.620    | 1         | 37            | 1186461       | 0           | Standard |
| > Tb    | 159  |            | ug/L  |          |           | 619766        | 586275        | 2           | Standard |
| Pb      | 208  | 0.009      | ug/L  | 0.001    | 8         | 178           | 502           | 4           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0539-04**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 05:55:53**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 33004         | 48899         | 0           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4319075       | 4523212       | 0           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 460811        | 542411        | 1           | Standard |
| Cr      | 52   | <b>0.079</b>   | ug/L  | 0.008    | 10        | 14116         | 18031         | 2           | Standard |
| Cr      | 53   | <b>0.197</b>   | ug/L  | 0.012    | 6         | 169           | 605           | 3           | Standard |
| Mn      | 55   | <b>324.579</b> | ug/L  | 8.028    | 2         | 2166          | 8110487       | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 25853         | 24766         | 0           | KED      |
| Ni      | 60   | <b>0.195</b>   | ug/L  | 0.014    | 7         | 24            | 206           | 6           | KED      |
| Ni      | 62   | <b>0.172</b>   | ug/L  | 0.029    | 17        | 9             | 35            | 12          | KED      |
| Cu      | 63   | <b>0.047</b>   | ug/L  | 0.001    | 2         | 49            | 175           | 1           | KED      |
| Cu      | 65   | <b>0.056</b>   | ug/L  | 0.009    | 16        | 27            | 102           | 12          | KED      |
| Zn      | 66   | <b>0.536</b>   | ug/L  | 0.029    | 5         | 20            | 206           | 4           | KED      |
| Zn      | 67   | <b>3.474</b>   | ug/L  | 0.092    | 2         | 4             | 205           | 3           | KED      |
| As      | 75   | <b>2.115</b>   | ug/L  | 0.075    | 3         | 6             | 389           | 2           | KED      |
| Se      | 78   | <b>0.015</b>   | ug/L  | 0.116    | 760       | 19            | 18            | 12          | KED      |
| Y       | 89   |                | ug/L  |          |           | 261932        | 282762        | 3           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 49            | 58            | 16          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 7009          | 6902          | 3           | KED      |
| Cd      | 111  | <b>-0.001</b>  | ug/L  | 0.010    | 989       | 4             | 4             | 48          | KED      |
| Cd      | 114  | <b>0.005</b>   | ug/L  | 0.002    | 50        | 4             | 6             | 15          | KED      |
| > In    | 115  |                | ug/L  |          |           | 367469        | 357347        | 0           | Standard |
| Ag      | 107  | <b>-0.003</b>  | ug/L  | 0.000    | 2         | 86            | 45            | 2           | Standard |
| Ba      | 135  | <b>31.688</b>  | ug/L  | 0.548    | 1         | 23            | 94682         | 1           | Standard |
| Ba      | 137  | <b>31.226</b>  | ug/L  | 0.272    | 0         | 37            | 165601        | 0           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 619766        | 630586        | 1           | Standard |
| Pb      | 208  | <b>0.007</b>   | ug/L  | 0.001    | 19        | 178           | 464           | 11          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0539-05**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 06:01:00**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |               | ug/L  |          |           | 33004         | 45077         | 2           | Standard |
| Cl      | 37   |               | ug/L  |          |           | 4319075       | 4430821       | 0           | Standard |
| > Sc    | 45   |               | ug/L  |          |           | 460811        | 468954        | 1           | Standard |
| Cr      | 52   | <b>0.353</b>  | ug/L  | 0.010    | 2         | 14116         | 19787         | 0           | Standard |
| Cr      | 53   | <b>0.318</b>  | ug/L  | 0.007    | 2         | 169           | 737           | 0           | Standard |
| Mn      | 55   | <b>0.512</b>  | ug/L  | 0.010    | 1         | 2166          | 13258         | 0           | Standard |
| > Ge    | 72   |               | ug/L  |          |           | 25853         | 25379         | 2           | KED      |
| Ni      | 60   | <b>0.727</b>  | ug/L  | 0.071    | 9         | 24            | 723           | 7           | KED      |
| Ni      | 62   | <b>0.726</b>  | ug/L  | 0.113    | 15        | 9             | 123           | 12          | KED      |
| Cu      | 63   | <b>1.419</b>  | ug/L  | 0.065    | 4         | 49            | 4034          | 2           | KED      |
| Cu      | 65   | <b>1.518</b>  | ug/L  | 0.053    | 3         | 27            | 2133          | 3           | KED      |
| Zn      | 66   | <b>10.101</b> | ug/L  | 0.384    | 3         | 20            | 3613          | 1           | KED      |
| Zn      | 67   | <b>9.078</b>  | ug/L  | 0.477    | 5         | 4             | 541           | 2           | KED      |
| As      | 75   | <b>0.005</b>  | ug/L  | 0.016    | 318       | 6             | 7             | 38          | KED      |
| Se      | 78   | <b>-0.247</b> | ug/L  | 0.156    | 63        | 19            | 13            | 23          | KED      |
| Y       | 89   |               | ug/L  |          |           | 261932        | 263017        | 1           | Standard |
| Kr      | 83   |               | ug/L  |          |           | 49            | 45            | 16          | Standard |
| > In-1  | 115  |               | ug/L  |          |           | 7009          | 7246          | 2           | KED      |
| Cd      | 111  | <b>-0.002</b> | ug/L  | 0.007    | 354       | 4             | 4             | 35          | KED      |
| Cd      | 114  | <b>0.013</b>  | ug/L  | 0.009    | 67        | 4             | 11            | 43          | KED      |
| > In    | 115  |               | ug/L  |          |           | 367469        | 360383        | 1           | Standard |
| Ag      | 107  | <b>0.017</b>  | ug/L  | 0.001    | 3         | 86            | 288           | 1           | Standard |
| Ba      | 135  | <b>3.706</b>  | ug/L  | 0.038    | 1         | 23            | 11189         | 1           | Standard |
| Ba      | 137  | <b>3.688</b>  | ug/L  | 0.071    | 1         | 37            | 19753         | 0           | Standard |
| > Tb    | 159  |               | ug/L  |          |           | 619766        | 618295        | 2           | Standard |
| Pb      | 208  | <b>0.221</b>  | ug/L  | 0.007    | 3         | 178           | 8632          | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLI

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 06:05:39

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 32700         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4345298       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 460811        | 455074        | 0           | Standard |
| Cr      | 52   | -0.001     | ug/L  | 0.015    | 1747      | 14116         | 13929         | 2           | Standard |
| Cr      | 53   | -0.025     | ug/L  | 0.005    | 18        | 169           | 124           | 6           | Standard |
| Mn      | 55   | -0.055     | ug/L  | 0.002    | 2         | 2166          | 984           | 2           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 25853         | 24756         | 2           | KED      |
| Ni      | 60   | -0.007     | ug/L  | 0.001    | 21        | 24            | 16            | 6           | KED      |
| Ni      | 62   | -0.026     | ug/L  | 0.039    | 149       | 9             | 5             | 114         | KED      |
| Cu      | 63   | 0.001      | ug/L  | 0.002    | 353       | 49            | 48            | 11          | KED      |
| Cu      | 65   | -0.000     | ug/L  | 0.010    | 2289      | 27            | 25            | 49          | KED      |
| Zn      | 66   | 0.008      | ug/L  | 0.013    | 167       | 20            | 22            | 22          | KED      |
| Zn      | 67   | -0.018     | ug/L  | 0.070    | 384       | 4             | 3             | 124         | KED      |
| As      | 75   | 0.002      | ug/L  | 0.006    | 354       | 6             | 6             | 14          | KED      |
| Se      | 78   | -0.218     | ug/L  | 0.093    | 42        | 19            | 14            | 15          | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 257267        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 48            | 11          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7009          | 6906          | 2           | KED      |
| Cd      | 111  | -0.004     | ug/L  | 0.003    | 73        | 4             | 3             | 15          | KED      |
| Cd      | 114  | -0.001     | ug/L  | 0.004    | 286       | 4             | 3             | 50          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 367469        | 343903        | 1           | Standard |
| Ag      | 107  | -0.004     | ug/L  | 0.000    | 13        | 86            | 40            | 12          | Standard |
| Ba      | 135  | 0.001      | ug/L  | 0.000    | 54        | 23            | 24            | 4           | Standard |
| Ba      | 137  | 0.004      | ug/L  | 0.004    | 97        | 37            | 55            | 36          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 619766        | 599542        | 0           | Standard |
| Pb      | 208  | 0.001      | ug/L  | 0.001    | 64        | 178           | 202           | 8           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 06:10:24

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 33491         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4288626       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 460811        | 473770        | 1           | Standard |
| Cr      | 52   | 50.139     | ug/L  | 1.071    | 2         | 14116         | 793633        | 2           | Standard |
| Cr      | 53   | 51.369     | ug/L  | 0.894    | 1         | 169           | 92312         | 2           | Standard |
| Mn      | 55   | 51.114     | ug/L  | 0.771    | 1         | 2166          | 1117847       | 2           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 25853         | 25762         | 0           | KED      |
| Ni      | 60   | 49.334     | ug/L  | 1.513    | 3         | 24            | 48299         | 3           | KED      |
| Ni      | 62   | 49.491     | ug/L  | 0.847    | 1         | 9             | 7904          | 1           | KED      |
| Cu      | 63   | 50.174     | ug/L  | 0.298    | 0         | 49            | 143195        | 0           | KED      |
| Cu      | 65   | 49.944     | ug/L  | 0.117    | 0         | 27            | 70389         | 0           | KED      |
| Zn      | 66   | 49.877     | ug/L  | 0.675    | 1         | 20            | 18040         | 1           | KED      |
| Zn      | 67   | 50.732     | ug/L  | 0.986    | 1         | 4             | 3054          | 1           | KED      |
| As      | 75   | 49.424     | ug/L  | 0.359    | 0         | 6             | 9308          | 0           | KED      |
| [ Se    | 78   | 48.689     | ug/L  | 1.533    | 3         | 19            | 1047          | 2           | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 273445        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 60            | 7           | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7009          | 7018          | 2           | KED      |
| Cd      | 111  | 50.641     | ug/L  | 1.237    | 2         | 4             | 10497         | 0           | KED      |
| Cd      | 114  | 50.759     | ug/L  | 2.011    | 3         | 4             | 25876         | 1           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 367469        | 357535        | 1           | Standard |
| Ag      | 107  | 50.702     | ug/L  | 1.721    | 3         | 86            | 604153        | 2           | Standard |
| Ba      | 135  | 51.700     | ug/L  | 0.478    | 0         | 23            | 154527        | 0           | Standard |
| [ Ba    | 137  | 51.011     | ug/L  | 1.502    | 2         | 37            | 270581        | 1           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 619766        | 628525        | 1           | Standard |
| [ Pb    | 208  | 52.322     | ug/L  | 0.333    | 0         | 178           | 2037185       | 1           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 06:17:52

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 32193         | 4           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4315932       | 2           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 460811        | 464727        | 1           | Standard |
| Cr      | 52   | 0.020      | ug/L  | 0.009    | 44        | 14116         | 14534         | 2           | Standard |
| Cr      | 53   | -0.020     | ug/L  | 0.010    | 52        | 169           | 136           | 14          | Standard |
| Mn      | 55   | -0.049     | ug/L  | 0.011    | 22        | 2166          | 1141          | 21          | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 25853         | 25049         | 3           | KED      |
| Ni      | 60   | -0.010     | ug/L  | 0.004    | 42        | 24            | 13            | 28          | KED      |
| Ni      | 62   | -0.018     | ug/L  | 0.020    | 108       | 9             | 6             | 45          | KED      |
| Cu      | 63   | -0.001     | ug/L  | 0.001    | 221       | 49            | 46            | 10          | KED      |
| Cu      | 65   | -0.004     | ug/L  | 0.004    | 93        | 27            | 20            | 24          | KED      |
| Zn      | 66   | -0.009     | ug/L  | 0.012    | 141       | 20            | 17            | 22          | KED      |
| Zn      | 67   | -0.018     | ug/L  | 0.050    | 272       | 4             | 3             | 91          | KED      |
| As      | 75   | -0.008     | ug/L  | 0.008    | 106       | 6             | 5             | 30          | KED      |
| Se      | 78   | -0.135     | ug/L  | 0.130    | 96        | 19            | 16            | 13          | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 267058        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 38            | 5           | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7009          | 6744          | 2           | KED      |
| Cd      | 111  | -0.009     | ug/L  | 0.010    | 121       | 4             | 2             | 78          | KED      |
| Cd      | 114  | 0.000      | ug/L  | 0.005    | 968       | 4             | 4             | 49          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 367469        | 358576        | 1           | Standard |
| Ag      | 107  | 0.004      | ug/L  | 0.009    | 270       | 86            | 127           | 90          | Standard |
| Ba      | 135  | 0.008      | ug/L  | 0.008    | 93        | 23            | 48            | 50          | Standard |
| Ba      | 137  | 0.007      | ug/L  | 0.008    | 111       | 37            | 76            | 58          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 619766        | 607323        | 1           | Standard |
| Pb      | 208  | 0.002      | ug/L  | 0.008    | 328       | 178           | 260           | 108         | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0544-01**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 06:22:37**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte   | Mass      | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|-----------|-----------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C         | 13        |                | ug/L  |          |           | 33004         | 36195         | 1           | Standard |
| Cl        | 37        |                | ug/L  |          |           | 4319075       | 13340577      | 3           | Standard |
| > Sc      | 45        |                | ug/L  |          |           | 460811        | 466367        | 1           | Standard |
| Cr        | 52        | <b>0.370</b>   | ug/L  | 0.038    | 10        | 14116         | 19945         | 3           | Standard |
| Cr        | 53        | <b>7.403</b>   | ug/L  | 0.270    | 3         | 169           | 13240         | 2           | Standard |
| Mn        | 55        | <b>4.646</b>   | ug/L  | 0.119    | 2         | 2166          | 101978        | 1           | Standard |
| > Ge      | 72        |                | ug/L  |          |           | 25853         | 23924         | 0           | KED      |
| Ni        | 60        | <b>1.899</b>   | ug/L  | 0.028    | 1         | 24            | 1748          | 2           | KED      |
| Ni        | 62        | <b>2.023</b>   | ug/L  | 0.088    | 4         | 9             | 308           | 4           | KED      |
| <b>Cu</b> | 63        | <b>0.335</b>   | ug/L  | 0.024    | 7         | 49            | 934           | 7           | KED      |
| Cu        | 65        | <b>0.358</b>   | ug/L  | 0.010    | 2         | 27            | 493           | 2           | KED      |
| Zn        | 66        | <b>107.689</b> | ug/L  | 1.633    | 1         | 20            | 36150         | 1           | KED      |
| <b>Zn</b> | <b>67</b> | <b>98.416</b>  | ug/L  | 1.879    | 1         | 4             | 5498          | 1           | KED      |
| As        | 75        | <b>0.044</b>   | ug/L  | 0.015    | 34        | 6             | 13            | 19          | KED      |
| Se        | 78        | <b>-0.013</b>  | ug/L  | 0.045    | 334       | 19            | 17            | 5           | KED      |
| Y         | 89        |                | ug/L  |          |           | 261932        | 260486        | 1           | Standard |
| Kr        | 83        |                | ug/L  |          |           | 49            | 57            | 12          | Standard |
| > In-1    | 115       |                | ug/L  |          |           | 7009          | 6485          | 1           | KED      |
| Cd        | 111       | <b>0.547</b>   | ug/L  | 0.061    | 11        | 4             | 108           | 10          | KED      |
| Cd        | 114       | <b>0.570</b>   | ug/L  | 0.003    | 0         | 4             | 272           | 1           | KED      |
| > In      | 115       |                | ug/L  |          |           | 367469        | 333878        | 1           | Standard |
| Ag        | 107       | <b>0.001</b>   | ug/L  | 0.002    | 309       | 86            | 87            | 30          | Standard |
| Ba        | 135       | <b>5.275</b>   | ug/L  | 0.095    | 1         | 23            | 14742         | 1           | Standard |
| Ba        | 137       | <b>5.332</b>   | ug/L  | 0.065    | 1         | 37            | 26444         | 0           | Standard |
| > Tb      | 159       |                | ug/L  |          |           | 619766        | 608424        | 0           | Standard |
| Pb        | 208       | <b>0.014</b>   | ug/L  | 0.002    | 12        | 178           | 692           | 8           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0544-02**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 06:27:15**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte   | Mass      | Conc. Mean    | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|-----------|-----------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C         | 13        |               | ug/L  |          |           | 33004         | 37670         | 1           | Standard |
| Cl        | 37        |               | ug/L  |          |           | 4319075       | 16205702      | 1           | Standard |
| [> Sc     | 45        |               | ug/L  |          |           | 460811        | 471114        | 1           | Standard |
| Cr        | 52        | <b>0.662</b>  | ug/L  | 0.034    | 5         | 14116         | 24661         | 1           | Standard |
| Cr        | 53        | <b>12.898</b> | ug/L  | 0.358    | 2         | 169           | 23179         | 3           | Standard |
| Mn        | 55        | <b>4.943</b>  | ug/L  | 0.038    | 0         | 2166          | 109482        | 0           | Standard |
| [> Ge     | 72        |               | ug/L  |          |           | 25853         | 23008         | 2           | KED      |
| Ni        | 60        | <b>1.692</b>  | ug/L  | 0.087    | 5         | 24            | 1499          | 3           | KED      |
| Ni        | 62        | <b>1.906</b>  | ug/L  | 0.228    | 11        | 9             | 280           | 11          | KED      |
| <b>Cu</b> | 63        | <b>0.220</b>  | ug/L  | 0.011    | 4         | 49            | 605           | 3           | KED      |
| Cu        | 65        | <b>0.222</b>  | ug/L  | 0.010    | 4         | 27            | 304           | 3           | KED      |
| Zn        | 66        | <b>98.265</b> | ug/L  | 2.048    | 2         | 20            | 31716         | 0           | KED      |
| <b>Zn</b> | <b>67</b> | <b>89.685</b> | ug/L  | 1.898    | 2         | 4             | 4818          | 2           | KED      |
| As        | 75        | <b>0.032</b>  | ug/L  | 0.021    | 64        | 6             | 11            | 33          | KED      |
| Se        | 78        | <b>0.060</b>  | ug/L  | 0.258    | 430       | 19            | 18            | 28          | KED      |
| Y         | 89        |               | ug/L  |          |           | 261932        | 261323        | 1           | Standard |
| Kr        | 83        |               | ug/L  |          |           | 49            | 49            | 17          | Standard |
| [> In-1   | 115       |               | ug/L  |          |           | 7009          | 6316          | 0           | KED      |
| Cd        | 111       | <b>0.683</b>  | ug/L  | 0.042    | 6         | 4             | 131           | 6           | KED      |
| Cd        | 114       | <b>0.679</b>  | ug/L  | 0.055    | 8         | 4             | 315           | 7           | KED      |
| [> In     | 115       |               | ug/L  |          |           | 367469        | 328258        | 2           | Standard |
| Ag        | 107       | <b>0.002</b>  | ug/L  | 0.001    | 88        | 86            | 95            | 14          | Standard |
| Ba        | 135       | <b>2.138</b>  | ug/L  | 0.069    | 3         | 23            | 5884          | 2           | Standard |
| Ba        | 137       | <b>2.109</b>  | ug/L  | 0.098    | 4         | 37            | 10301         | 3           | Standard |
| [> Tb     | 159       |               | ug/L  |          |           | 619766        | 599777        | 1           | Standard |
| Pb        | 208       | <b>0.019</b>  | ug/L  | 0.001    | 7         | 178           | 874           | 4           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0544-03**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 06:32:23**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte   | Mass      | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|-----------|-----------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C         | 13        |                | ug/L  |          |           | 33004         | 39745         | 2           | Standard |
| Cl        | 37        |                | ug/L  |          |           | 4319075       | 19023149      | 1           | Standard |
| > Sc      | 45        |                | ug/L  |          |           | 460811        | 471926        | 1           | Standard |
| Cr        | 52        | <b>0.493</b>   | ug/L  | 0.067    | 13        | 14116         | 22076         | 3           | Standard |
| Cr        | 53        | <b>15.199</b>  | ug/L  | 0.240    | 1         | 169           | 27323         | 0           | Standard |
| Mn        | 55        | <b>29.177</b>  | ug/L  | 0.336    | 1         | 2166          | 636461        | 1           | Standard |
| > Ge      | 72        |                | ug/L  |          |           | 25853         | 23194         | 0           | KED      |
| Ni        | 60        | <b>2.302</b>   | ug/L  | 0.046    | 2         | 24            | 2049          | 2           | KED      |
| Ni        | 62        | <b>2.186</b>   | ug/L  | 0.184    | 8         | 9             | 322           | 8           | KED      |
| <b>Cu</b> | 63        | <b>0.186</b>   | ug/L  | 0.012    | 6         | 49            | 521           | 5           | KED      |
| Cu        | 65        | <b>0.179</b>   | ug/L  | 0.012    | 6         | 27            | 252           | 5           | KED      |
| Zn        | 66        | <b>105.408</b> | ug/L  | 1.883    | 1         | 20            | 34305         | 1           | KED      |
| <b>Zn</b> | <b>67</b> | <b>95.311</b>  | ug/L  | 1.592    | 1         | 4             | 5162          | 1           | KED      |
| As        | 75        | <b>0.027</b>   | ug/L  | 0.010    | 38        | 6             | 10            | 16          | KED      |
| Se        | 78        | <b>0.075</b>   | ug/L  | 0.207    | 278       | 19            | 18            | 20          | KED      |
| Y         | 89        |                | ug/L  |          |           | 261932        | 262898        | 0           | Standard |
| Kr        | 83        |                | ug/L  |          |           | 49            | 81            | 3           | Standard |
| > In-1    | 115       |                | ug/L  |          |           | 7009          | 6525          | 1           | KED      |
| Cd        | 111       | <b>0.578</b>   | ug/L  | 0.033    | 5         | 4             | 115           | 4           | KED      |
| Cd        | 114       | <b>0.601</b>   | ug/L  | 0.029    | 4         | 4             | 288           | 3           | KED      |
| > In      | 115       |                | ug/L  |          |           | 367469        | 336954        | 1           | Standard |
| Ag        | 107       | <b>0.007</b>   | ug/L  | 0.001    | 12        | 86            | 162           | 6           | Standard |
| Ba        | 135       | <b>19.495</b>  | ug/L  | 0.587    | 3         | 23            | 54919         | 1           | Standard |
| Ba        | 137       | <b>19.460</b>  | ug/L  | 0.343    | 1         | 37            | 97309         | 0           | Standard |
| > Tb      | 159       |                | ug/L  |          |           | 619766        | 614585        | 2           | Standard |
| Pb        | 208       | <b>0.006</b>   | ug/L  | 0.001    | 14        | 178           | 400           | 8           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0540-02**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 06:38:31**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 37695         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4322976       | 3           | Standard |
| > Sc    | 45   |            | ug/L  |          |           | 460811        | 501216        | 4           | Standard |
| Cr      | 52   | 1.834      | ug/L  | 0.114    | 6         | 14116         | 45442         | 0           | Standard |
| Cr      | 53   | 2.828      | ug/L  | 0.121    | 4         | 169           | 5543          | 0           | Standard |
| Mn      | 55   | 30.224     | ug/L  | 1.305    | 4         | 2166          | 699456        | 2           | Standard |
| > Ge    | 72   |            | ug/L  |          |           | 25853         | 26481         | 0           | KED      |
| Ni      | 60   | 861.284    | ug/L  | 20.226   | 2         | 24            | 866377        | 2           | KED      |
| Ni      | 62   | 866.049    | ug/L  | 34.552   | 3         | 9             | 142014        | 3           | KED      |
| Cu      | 63   | 3.136      | ug/L  | 0.052    | 1         | 49            | 9246          | 1           | KED      |
| Cu      | 65   | 3.140      | ug/L  | 0.017    | 0         | 27            | 4575          | 0           | KED      |
| Zn      | 66   | 14.888     | ug/L  | 0.535    | 3         | 20            | 5550          | 3           | KED      |
| Zn      | 67   | 13.365     | ug/L  | 0.689    | 5         | 4             | 830           | 5           | KED      |
| As      | 75   | 0.018      | ug/L  | 0.009    | 52        | 6             | 10            | 17          | KED      |
| Se      | 78   | -0.013     | ug/L  | 0.093    | 709       | 19            | 19            | 10          | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 276707        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 50            | 13          | Standard |
| > In-1  | 115  |            | ug/L  |          |           | 7009          | 7216          | 0           | KED      |
| Cd      | 111  | 0.114      | ug/L  | 0.019    | 16        | 4             | 28            | 14          | KED      |
| Cd      | 114  | 0.148      | ug/L  | 0.030    | 20        | 4             | 81            | 19          | KED      |
| > In    | 115  |            | ug/L  |          |           | 367469        | 364427        | 4           | Standard |
| Ag      | 107  | -0.002     | ug/L  | 0.001    | 47        | 86            | 57            | 27          | Standard |
| Ba      | 135  | 1.321      | ug/L  | 0.062    | 4         | 23            | 4043          | 4           | Standard |
| Ba      | 137  | 1.282      | ug/L  | 0.007    | 0         | 37            | 6967          | 3           | Standard |
| > Tb    | 159  |            | ug/L  |          |           | 619766        | 621220        | 4           | Standard |
| Pb      | 208  | 0.018      | ug/L  | 0.003    | 13        | 178           | 885           | 6           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0540-19**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 06:43:09**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 33004         | 39121         | 2           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4319075       | 4213695       | 1           | Standard |
| > Sc    | 45   |                | ug/L  |          |           | 460811        | 503441        | 1           | Standard |
| Cr      | 52   | <b>0.046</b>   | ug/L  | 0.023    | 50        | 14116         | 16178         | 0           | Standard |
| Cr      | 53   | <b>0.679</b>   | ug/L  | 0.033    | 4         | 169           | 1478          | 2           | Standard |
| Mn      | 55   | <b>31.248</b>  | ug/L  | 0.179    | 0         | 2166          | 727020        | 1           | Standard |
| > Ge    | 72   |                | ug/L  |          |           | 25853         | 25973         | 2           | KED      |
| Ni      | 60   | <b>926.426</b> | ug/L  | 32.969   | 3         | 24            | 913542        | 1           | KED      |
| Ni      | 62   | <b>939.080</b> | ug/L  | 24.132   | 2         | 9             | 151013        | 2           | KED      |
| Cu      | 63   | <b>1.952</b>   | ug/L  | 0.009    | 0         | 49            | 5663          | 1           | KED      |
| Cu      | 65   | <b>1.993</b>   | ug/L  | 0.105    | 5         | 27            | 2856          | 3           | KED      |
| Zn      | 66   | <b>6.141</b>   | ug/L  | 0.168    | 2         | 20            | 2258          | 4           | KED      |
| Zn      | 67   | <b>5.400</b>   | ug/L  | 0.472    | 8         | 4             | 331           | 7           | KED      |
| As      | 75   | <b>0.031</b>   | ug/L  | 0.019    | 60        | 6             | 12            | 26          | KED      |
| Se      | 78   | <b>-0.102</b>  | ug/L  | 0.139    | 135       | 19            | 17            | 19          | KED      |
| Y       | 89   |                | ug/L  |          |           | 261932        | 285406        | 1           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 49            | 47            | 22          | Standard |
| > In-1  | 115  |                | ug/L  |          |           | 7009          | 7229          | 0           | KED      |
| Cd      | 111  | <b>0.011</b>   | ug/L  | 0.023    | 203       | 4             | 6             | 69          | KED      |
| Cd      | 114  | <b>0.023</b>   | ug/L  | 0.008    | 33        | 4             | 16            | 24          | KED      |
| > In    | 115  |                | ug/L  |          |           | 367469        | 369695        | 1           | Standard |
| Ag      | 107  | <b>-0.002</b>  | ug/L  | 0.000    | 21        | 86            | 66            | 8           | Standard |
| Ba      | 135  | <b>0.633</b>   | ug/L  | 0.021    | 3         | 23            | 1978          | 1           | Standard |
| Ba      | 137  | <b>0.624</b>   | ug/L  | 0.021    | 3         | 37            | 3460          | 2           | Standard |
| > Tb    | 159  |                | ug/L  |          |           | 619766        | 631574        | 2           | Standard |
| Pb      | 208  | <b>0.031</b>   | ug/L  | 0.002    | 7         | 178           | 1381          | 5           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0540-03**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 06:47:47**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 39834         | 0           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4162237       | 0           | Standard |
| > Sc    | 45   |            | ug/L  |          |           | 460811        | 508818        | 1           | Standard |
| Cr      | 52   | 0.075      | ug/L  | 0.028    | 37        | 14116         | 16836         | 3           | Standard |
| Cr      | 53   | 0.532      | ug/L  | 0.011    | 1         | 169           | 1212          | 0           | Standard |
| Mn      | 55   | 30.303     | ug/L  | 0.416    | 1         | 2166          | 712598        | 1           | Standard |
| > Ge    | 72   |            | ug/L  |          |           | 25853         | 26812         | 1           | KED      |
| Ni      | 60   | 905.920    | ug/L  | 13.970   | 1         | 24            | 922547        | 0           | KED      |
| Ni      | 62   | 917.988    | ug/L  | 16.858   | 1         | 9             | 152421        | 2           | KED      |
| Cu      | 63   | 2.373      | ug/L  | 0.059    | 2         | 49            | 7097          | 1           | KED      |
| Cu      | 65   | 2.366      | ug/L  | 0.042    | 1         | 27            | 3497          | 1           | KED      |
| Zn      | 66   | 5.942      | ug/L  | 0.160    | 2         | 20            | 2256          | 3           | KED      |
| Zn      | 67   | 5.562      | ug/L  | 0.556    | 9         | 4             | 352           | 8           | KED      |
| As      | 75   | 0.055      | ug/L  | 0.008    | 14        | 6             | 17            | 8           | KED      |
| Se      | 78   | -0.112     | ug/L  | 0.104    | 93        | 19            | 17            | 12          | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 296972        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 46            | 34          | Standard |
| > In-1  | 115  |            | ug/L  |          |           | 7009          | 7211          | 1           | KED      |
| Cd      | 111  | 0.017      | ug/L  | 0.015    | 89        | 4             | 8             | 40          | KED      |
| Cd      | 114  | 0.013      | ug/L  | 0.016    | 122       | 4             | 11            | 73          | KED      |
| > In    | 115  |            | ug/L  |          |           | 367469        | 368779        | 1           | Standard |
| Ag      | 107  | 0.001      | ug/L  | 0.000    | 56        | 86            | 93            | 3           | Standard |
| Ba      | 135  | 0.693      | ug/L  | 0.009    | 1         | 23            | 2158          | 1           | Standard |
| Ba      | 137  | 0.680      | ug/L  | 0.026    | 3         | 37            | 3756          | 2           | Standard |
| > Tb    | 159  |            | ug/L  |          |           | 619766        | 630997        | 1           | Standard |
| Pb      | 208  | 0.042      | ug/L  | 0.001    | 1         | 178           | 1838          | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0102-DUP2**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 06:52:25**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 38588         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4156494       | 0           | Standard |
| > Sc    | 45   |            | ug/L  |          |           | 460811        | 509776        | 2           | Standard |
| Cr      | 52   | 0.087      | ug/L  | 0.029    | 33        | 14116         | 17071         | 1           | Standard |
| Cr      | 53   | 0.482      | ug/L  | 0.007    | 1         | 169           | 1117          | 3           | Standard |
| Mn      | 55   | 29.166     | ug/L  | 0.936    | 3         | 2166          | 687073        | 2           | Standard |
| > Ge    | 72   |            | ug/L  |          |           | 25853         | 26668         | 0           | KED      |
| Ni      | 60   | 884.249    | ug/L  | 22.016   | 2         | 24            | 895758        | 2           | KED      |
| Ni      | 62   | 885.653    | ug/L  | 27.996   | 3         | 9             | 146278        | 3           | KED      |
| Cu      | 63   | 2.249      | ug/L  | 0.054    | 2         | 49            | 6694          | 2           | KED      |
| Cu      | 65   | 2.210      | ug/L  | 0.020    | 0         | 27            | 3251          | 0           | KED      |
| Zn      | 66   | 5.956      | ug/L  | 0.050    | 0         | 20            | 2249          | 0           | KED      |
| Zn      | 67   | 5.690      | ug/L  | 0.419    | 7         | 4             | 358           | 7           | KED      |
| As      | 75   | 0.043      | ug/L  | 0.009    | 20        | 6             | 15            | 11          | KED      |
| Se      | 78   | -0.043     | ug/L  | 0.129    | 300       | 19            | 19            | 14          | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 297189        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 48            | 9           | Standard |
| > In-1  | 115  |            | ug/L  |          |           | 7009          | 7109          | 1           | KED      |
| Cd      | 111  | 0.009      | ug/L  | 0.003    | 33        | 4             | 6             | 8           | KED      |
| Cd      | 114  | 0.023      | ug/L  | 0.002    | 8         | 4             | 16            | 6           | KED      |
| > In    | 115  |            | ug/L  |          |           | 367469        | 369868        | 1           | Standard |
| Ag      | 107  | 0.001      | ug/L  | 0.000    | 41        | 86            | 100           | 5           | Standard |
| Ba      | 135  | 0.693      | ug/L  | 0.015    | 2         | 23            | 2165          | 2           | Standard |
| Ba      | 137  | 0.653      | ug/L  | 0.008    | 1         | 37            | 3623          | 3           | Standard |
| > Tb    | 159  |            | ug/L  |          |           | 619766        | 635810        | 1           | Standard |
| Pb      | 208  | 0.040      | ug/L  | 0.001    | 2         | 178           | 1765          | 1           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0102-MS2**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 06:57:33**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 38657         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4085843       | 1           | Standard |
| > Sc    | 45   |            | ug/L  |          |           | 460811        | 500054        | 1           | Standard |
| Cr      | 52   | 2.839      | ug/L  | 0.073    | 2         | 14116         | 61858         | 0           | Standard |
| Cr      | 53   | 3.203      | ug/L  | 0.033    | 1         | 169           | 6246          | 1           | Standard |
| Mn      | 55   | 32.829     | ug/L  | 1.001    | 3         | 2166          | 758392        | 2           | Standard |
| > Ge    | 72   |            | ug/L  |          |           | 25853         | 26269         | 3           | KED      |
| Ni      | 60   | 907.692    | ug/L  | 28.471   | 3         | 24            | 905276        | 2           | KED      |
| Ni      | 62   | 918.816    | ug/L  | 49.867   | 5         | 9             | 149304        | 2           | KED      |
| Cu      | 63   | 5.148      | ug/L  | 0.164    | 3         | 49            | 15016         | 1           | KED      |
| Cu      | 65   | 5.206      | ug/L  | 0.116    | 2         | 27            | 7502          | 0           | KED      |
| Zn      | 66   | 15.449     | ug/L  | 0.484    | 3         | 20            | 5709          | 0           | KED      |
| Zn      | 67   | 13.936     | ug/L  | 1.361    | 9         | 4             | 857           | 6           | KED      |
| As      | 75   | 2.733      | ug/L  | 0.109    | 4         | 6             | 530           | 1           | KED      |
| Se      | 78   | 8.833      | ug/L  | 0.705    | 7         | 19            | 209           | 5           | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 292180        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 54            | 29          | Standard |
| > In-1  | 115  |            | ug/L  |          |           | 7009          | 7320          | 2           | KED      |
| Cd      | 111  | 2.703      | ug/L  | 0.054    | 2         | 4             | 588           | 1           | KED      |
| Cd      | 114  | 2.848      | ug/L  | 0.108    | 3         | 4             | 1518          | 1           | KED      |
| > In    | 115  |            | ug/L  |          |           | 367469        | 365077        | 0           | Standard |
| Ag      | 107  | 2.837      | ug/L  | 0.050    | 1         | 86            | 34611         | 2           | Standard |
| Ba      | 135  | 3.549      | ug/L  | 0.067    | 1         | 23            | 10852         | 1           | Standard |
| Ba      | 137  | 3.486      | ug/L  | 0.017    | 0         | 37            | 18921         | 0           | Standard |
| > Tb    | 159  |            | ug/L  |          |           | 619766        | 625315        | 2           | Standard |
| Pb      | 208  | 3.036      | ug/L  | 0.071    | 2         | 178           | 117761        | 1           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0102-MSD2**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 07:03:41**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean     | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |                | ug/L  |          |           | 33004         | 38679         | 0           | Standard |
| Cl      | 37   |                | ug/L  |          |           | 4319075       | 4114938       | 0           | Standard |
| [> Sc   | 45   |                | ug/L  |          |           | 460811        | 511894        | 1           | Standard |
| Cr      | 52   | <b>2.675</b>   | ug/L  | 0.083    | 3         | 14116         | 60589         | 1           | Standard |
| Cr      | 53   | <b>3.078</b>   | ug/L  | 0.080    | 2         | 169           | 6152          | 1           | Standard |
| Mn      | 55   | <b>31.300</b>  | ug/L  | 0.658    | 2         | 2166          | 740330        | 0           | Standard |
| [> Ge   | 72   |                | ug/L  |          |           | 25853         | 26204         | 2           | KED      |
| Ni      | 60   | <b>900.873</b> | ug/L  | 9.707    | 1         | 24            | 896640        | 2           | KED      |
| Ni      | 62   | <b>907.430</b> | ug/L  | 35.402   | 3         | 9             | 147165        | 2           | KED      |
| Cu      | 63   | <b>5.137</b>   | ug/L  | 0.159    | 3         | 49            | 14954         | 3           | KED      |
| Cu      | 65   | <b>5.108</b>   | ug/L  | 0.086    | 1         | 27            | 7344          | 0           | KED      |
| Zn      | 66   | <b>15.371</b>  | ug/L  | 0.293    | 1         | 20            | 5669          | 2           | KED      |
| Zn      | 67   | <b>13.914</b>  | ug/L  | 0.678    | 4         | 4             | 854           | 2           | KED      |
| As      | 75   | <b>2.848</b>   | ug/L  | 0.141    | 4         | 6             | 551           | 2           | KED      |
| Se      | 78   | <b>8.961</b>   | ug/L  | 0.454    | 5         | 19            | 212           | 5           | KED      |
| Y       | 89   |                | ug/L  |          |           | 261932        | 292505        | 0           | Standard |
| Kr      | 83   |                | ug/L  |          |           | 49            | 53            | 10          | Standard |
| [> In-1 | 115  |                | ug/L  |          |           | 7009          | 7210          | 2           | KED      |
| Cd      | 111  | <b>2.801</b>   | ug/L  | 0.195    | 6         | 4             | 600           | 5           | KED      |
| Cd      | 114  | <b>2.770</b>   | ug/L  | 0.110    | 3         | 4             | 1455          | 2           | KED      |
| [> In   | 115  |                | ug/L  |          |           | 367469        | 368376        | 1           | Standard |
| Ag      | 107  | <b>2.571</b>   | ug/L  | 0.070    | 2         | 86            | 31646         | 1           | Standard |
| Ba      | 135  | <b>3.458</b>   | ug/L  | 0.106    | 3         | 23            | 10668         | 1           | Standard |
| Ba      | 137  | <b>3.381</b>   | ug/L  | 0.054    | 1         | 37            | 18520         | 2           | Standard |
| [> Tb   | 159  |                | ug/L  |          |           | 619766        | 625888        | 1           | Standard |
| Pb      | 208  | <b>3.014</b>   | ug/L  | 0.071    | 2         | 178           | 117024        | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLJ

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 07:08:20

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 33828         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4028033       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 460811        | 460507        | 0           | Standard |
| Cr      | 52   | -0.001     | ug/L  | 0.032    | 4647      | 14116         | 14094         | 2           | Standard |
| Cr      | 53   | 0.107      | ug/L  | 0.008    | 7         | 169           | 355           | 3           | Standard |
| Mn      | 55   | -0.060     | ug/L  | 0.002    | 3         | 2166          | 890           | 4           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 25853         | 25565         | 1           | KED      |
| Ni      | 60   | 0.007      | ug/L  | 0.009    | 130       | 24            | 30            | 27          | KED      |
| Ni      | 62   | -0.007     | ug/L  | 0.019    | 264       | 9             | 8             | 35          | KED      |
| Cu      | 63   | 0.002      | ug/L  | 0.003    | 138       | 49            | 54            | 13          | KED      |
| Cu      | 65   | -0.000     | ug/L  | 0.001    | 600       | 27            | 26            | 7           | KED      |
| Zn      | 66   | 0.024      | ug/L  | 0.012    | 49        | 20            | 29            | 13          | KED      |
| Zn      | 67   | -0.020     | ug/L  | 0.019    | 91        | 4             | 3             | 34          | KED      |
| As      | 75   | -0.010     | ug/L  | 0.005    | 49        | 6             | 4             | 20          | KED      |
| Se      | 78   | -0.185     | ug/L  | 0.026    | 14        | 19            | 15            | 4           | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 261866        | 3           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 43            | 15          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7009          | 6748          | 1           | KED      |
| Cd      | 111  | -0.002     | ug/L  | 0.008    | 330       | 4             | 3             | 43          | KED      |
| Cd      | 114  | 0.000      | ug/L  | 0.012    | 2876      | 4             | 4             | 139         | KED      |
| [> In   | 115  |            | ug/L  |          |           | 367469        | 356822        | 1           | Standard |
| Ag      | 107  | -0.003     | ug/L  | 0.001    | 27        | 86            | 43            | 26          | Standard |
| Ba      | 135  | 0.002      | ug/L  | 0.001    | 52        | 23            | 29            | 13          | Standard |
| Ba      | 137  | 0.004      | ug/L  | 0.002    | 40        | 37            | 57            | 16          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 619766        | 599751        | 0           | Standard |
| Pb      | 208  | 0.002      | ug/L  | 0.000    | 8         | 178           | 248           | 2           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVJ

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 07:13:04

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 33881         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4259558       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 460811        | 480147        | 0           | Standard |
| Cr      | 52   | 50.916     | ug/L  | 0.666    | 1         | 14116         | 816569        | 1           | Standard |
| Cr      | 53   | 50.908     | ug/L  | 0.767    | 1         | 169           | 92701         | 0           | Standard |
| Mn      | 55   | 52.214     | ug/L  | 1.257    | 2         | 2166          | 1157006       | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 25853         | 26096         | 0           | KED      |
| Ni      | 60   | 48.710     | ug/L  | 0.952    | 1         | 24            | 48301         | 1           | KED      |
| Ni      | 62   | 48.618     | ug/L  | 0.319    | 0         | 9             | 7865          | 0           | KED      |
| Cu      | 63   | 50.737     | ug/L  | 0.601    | 1         | 49            | 146685        | 1           | KED      |
| Cu      | 65   | 50.736     | ug/L  | 0.930    | 1         | 27            | 72438         | 2           | KED      |
| Zn      | 66   | 50.084     | ug/L  | 1.071    | 2         | 20            | 18348         | 1           | KED      |
| Zn      | 67   | 49.719     | ug/L  | 0.981    | 1         | 4             | 3032          | 1           | KED      |
| As      | 75   | 50.254     | ug/L  | 1.007    | 2         | 6             | 9586          | 1           | KED      |
| [ Se    | 78   | 48.127     | ug/L  | 0.246    | 0         | 19            | 1049          | 0           | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 274405        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 62            | 28          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7009          | 7072          | 0           | KED      |
| Cd      | 111  | 51.301     | ug/L  | 0.601    | 1         | 4             | 10720         | 0           | KED      |
| Cd      | 114  | 50.411     | ug/L  | 0.708    | 1         | 4             | 25914         | 0           | KED      |
| [> In   | 115  |            | ug/L  |          |           | 367469        | 363199        | 0           | Standard |
| Ag      | 107  | 51.106     | ug/L  | 1.963    | 3         | 86            | 618652        | 3           | Standard |
| Ba      | 135  | 51.457     | ug/L  | 0.511    | 0         | 23            | 156246        | 0           | Standard |
| [ Ba    | 137  | 50.481     | ug/L  | 1.041    | 2         | 37            | 272055        | 1           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 619766        | 634708        | 2           | Standard |
| [ Pb    | 208  | 52.450     | ug/L  | 1.624    | 3         | 178           | 2061414       | 0           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBJ

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 07:20:32

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD     | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|--------------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |              |           | 33004         | 33133         | 0           | Standard |
| Cl      | 37   |            | ug/L  |              |           | 4319075       | 4189070       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |              |           | 460811        | 458634        | 2           | Standard |
| Cr      | 52   | -0.009     | ug/L  | 0.005        | 55        | 14116         | 13907         | 1           | Standard |
| Cr      | 53   | 0.059      | ug/L  | 0.009        | 14        | 169           | 271           | 4           | Standard |
| Mn      | 55   | -0.061     | ug/L  | 0.002        | 2         | 2166          | 871           | 2           | Standard |
| [> Ge   | 72   |            | ug/L  |              |           | 25853         | 25051         | 0           | KED      |
| Ni      | 60   | -0.011     | ug/L  | 0.007        | 66        | 24            | 13            | 49          | KED      |
| Ni      | 62   | -0.035     | ug/L  | 0.012        | 35        | 9             | 3             | 50          | KED      |
| Cu      | 63   | -0.001     | ug/L  | 0.003        | 170       | 49            | 43            | 15          | KED      |
| Cu      | 65   | -0.002     | ug/L  | 0.002        | 75        | 27            | 23            | 9           | KED      |
| Zn      | 66   | 0.002      | ug/L  | 0.014        | 776       | 20            | 20            | 24          | KED      |
| Zn      | 67   | -0.052     | ug/L  | 0.038        | 72        | 4             | 1             | 173         | KED      |
| As      | 75   | -0.001     | ug/L  | 0.008        | 1235      | 6             | 6             | 22          | KED      |
| Se      | 78   | -0.005     | ug/L  | <u>0.284</u> | 5193      | 19            | 18            | 30          | KED      |
| Y       | 89   |            | ug/L  |              |           | 261932        | 254978        | 1           | Standard |
| Kr      | 83   |            | ug/L  |              |           | 49            | 49            | 31          | Standard |
| [> In-1 | 115  |            | ug/L  |              |           | 7009          | 6975          | 3           | KED      |
| Cd      | 111  | -0.006     | ug/L  | 0.016        | 270       | 4             | 3             | 96          | KED      |
| Cd      | 114  | -0.006     | ug/L  | 0.004        | 67        | 4             | 1             | 201         | KED      |
| [> In   | 115  |            | ug/L  |              |           | 367469        | 348767        | 1           | Standard |
| Ag      | 107  | -0.003     | ug/L  | 0.001        | 34        | 86            | 49            | 23          | Standard |
| Ba      | 135  | 0.001      | ug/L  | 0.002        | 173       | 23            | 25            | 21          | Standard |
| Ba      | 137  | 0.001      | ug/L  | 0.003        | 211       | 37            | 42            | 34          | Standard |
| [> Tb   | 159  |            | ug/L  |              |           | 619766        | 598042        | 0           | Standard |
| Pb      | 208  | -0.002     | ug/L  | 0.000        | 11        | 178           | 116           | 5           | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 07:25:17

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 39943         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4308726       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 460811        | 555656        | 0           | Standard |
| Cr      | 52   | 0.063      | ug/L  | 0.015    | 23        | 14116         | 18167         | 0           | Standard |
| Cr      | 53   | 0.038      | ug/L  | 0.002    | 4         | 169           | 284           | 1           | Standard |
| Mn      | 55   | -0.033     | ug/L  | 0.002    | 4         | 2166          | 1767          | 2           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 25853         | 27474         | 2           | KED      |
| Ni      | 60   | -0.011     | ug/L  | 0.004    | 41        | 24            | 14            | 30          | KED      |
| Ni      | 62   | -0.037     | ug/L  | 0.012    | 31        | 9             | 3             | 50          | KED      |
| Cu      | 63   | 0.002      | ug/L  | 0.003    | 145       | 49            | 59            | 18          | KED      |
| Cu      | 65   | 0.003      | ug/L  | 0.004    | 113       | 27            | 33            | 14          | KED      |
| Zn      | 66   | 0.016      | ug/L  | 0.008    | 51        | 20            | 28            | 13          | KED      |
| Zn      | 67   | -0.024     | ug/L  | 0.017    | 72        | 4             | 3             | 34          | KED      |
| As      | 75   | -0.018     | ug/L  | 0.008    | 45        | 6             | 3             | 47          | KED      |
| Se      | 78   | -0.209     | ug/L  | 0.108    | 51        | 19            | 16            | 16          | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 310184        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 48            | 25          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7009          | 7751          | 1           | KED      |
| Cd      | 111  | -0.003     | ug/L  | 0.005    | 135       | 4             | 4             | 26          | KED      |
| Cd      | 114  | 0.001      | ug/L  | 0.006    | 419       | 4             | 5             | 58          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 367469        | 404795        | 2           | Standard |
| Ag      | 107  | -0.002     | ug/L  | 0.001    | 33        | 86            | 69            | 15          | Standard |
| Ba      | 135  | -0.004     | ug/L  | 0.001    | 34        | 23            | 11            | 44          | Standard |
| Ba      | 137  | -0.002     | ug/L  | 0.000    | 6         | 37            | 31            | 3           | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 619766        | 672425        | 0           | Standard |
| Pb      | 208  | -0.002     | ug/L  | 0.000    | 26        | 178           | 125           | 13          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 07:30:01

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 40364         | 0           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4363259       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 460811        | 565038        | 2           | Standard |
| Cr      | 52   | 0.016      | ug/L  | 0.017    | 103       | 14116         | 17604         | 1           | Standard |
| Cr      | 53   | 0.037      | ug/L  | 0.002    | 6         | 169           | 287           | 3           | Standard |
| Mn      | 55   | -0.034     | ug/L  | 0.002    | 4         | 2166          | 1782          | 2           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 25853         | 27372         | 1           | KED      |
| Ni      | 60   | -0.009     | ug/L  | 0.009    | 102       | 24            | 15            | 59          | KED      |
| Ni      | 62   | -0.041     | ug/L  | 0.013    | 33        | 9             | 3             | 69          | KED      |
| Cu      | 63   | 0.004      | ug/L  | 0.005    | 114       | 49            | 65            | 23          | KED      |
| Cu      | 65   | -0.001     | ug/L  | 0.005    | 724       | 27            | 27            | 23          | KED      |
| Zn      | 66   | -0.005     | ug/L  | 0.007    | 140       | 20            | 20            | 10          | KED      |
| Zn      | 67   | -0.005     | ug/L  | 0.061    | 1268      | 4             | 4             | 89          | KED      |
| As      | 75   | -0.012     | ug/L  | 0.004    | 29        | 6             | 4             | 15          | KED      |
| Se      | 78   | -0.295     | ug/L  | 0.243    | 82        | 19            | 13            | 37          | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 307041        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 52            | 2           | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7009          | 7767          | 2           | KED      |
| Cd      | 111  | -0.005     | ug/L  | 0.011    | 233       | 4             | 3             | 66          | KED      |
| Cd      | 114  | 0.001      | ug/L  | 0.006    | 483       | 4             | 5             | 61          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 367469        | 398721        | 1           | Standard |
| Ag      | 107  | -0.004     | ug/L  | 0.000    | 5         | 86            | 40            | 8           | Standard |
| Ba      | 135  | 0.001      | ug/L  | 0.002    | 429       | 23            | 27            | 28          | Standard |
| Ba      | 137  | -0.000     | ug/L  | 0.001    | 185       | 37            | 38            | 10          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 619766        | 680369        | 0           | Standard |
| Pb      | 208  | -0.002     | ug/L  | 0.000    | 17        | 178           | 106           | 15          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 07:34:46

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 40364         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 4353046       | 1           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 460811        | 556774        | 1           | Standard |
| Cr      | 52   | 0.045      | ug/L  | 0.044    | 97        | 14116         | 17875         | 2           | Standard |
| Cr      | 53   | 0.033      | ug/L  | 0.009    | 26        | 169           | 274           | 5           | Standard |
| Mn      | 55   | -0.033     | ug/L  | 0.002    | 5         | 2166          | 1759          | 0           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 25853         | 27232         | 0           | KED      |
| Ni      | 60   | -0.011     | ug/L  | 0.005    | 42        | 24            | 13            | 34          | KED      |
| Ni      | 62   | -0.029     | ug/L  | 0.017    | 59        | 9             | 5             | 57          | KED      |
| Cu      | 63   | 0.002      | ug/L  | 0.005    | 264       | 49            | 57            | 25          | KED      |
| Cu      | 65   | -0.001     | ug/L  | 0.004    | 716       | 27            | 27            | 20          | KED      |
| Zn      | 66   | 0.000      | ug/L  | 0.008    | 1920      | 20            | 22            | 13          | KED      |
| Zn      | 67   | 0.026      | ug/L  | 0.063    | 237       | 4             | 6             | 62          | KED      |
| As      | 75   | -0.014     | ug/L  | 0.006    | 46        | 6             | 4             | 29          | KED      |
| Se      | 78   | -0.073     | ug/L  | 0.192    | 262       | 19            | 18            | 22          | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 307782        | 1           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 33            | 18          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7009          | 7539          | 1           | KED      |
| Cd      | 111  | -0.009     | ug/L  | 0.007    | 82        | 4             | 2             | 57          | KED      |
| Cd      | 114  | 0.002      | ug/L  | 0.004    | 214       | 4             | 5             | 33          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 367469        | 395033        | 0           | Standard |
| Ag      | 107  | -0.004     | ug/L  | 0.000    | 8         | 86            | 43            | 9           | Standard |
| Ba      | 135  | -0.001     | ug/L  | 0.003    | 210       | 23            | 20            | 51          | Standard |
| Ba      | 137  | -0.000     | ug/L  | 0.003    | 690       | 37            | 38            | 39          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 619766        | 675344        | 1           | Standard |
| Pb      | 208  | -0.002     | ug/L  | 0.000    | 6         | 178           | 91            | 8           | Standard |



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 07:39:30

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 33567         | 0           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 3864233       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 460811        | 405568        | 0           | Standard |
| Cr      | 52   | 0.041      | ug/L  | 0.018    | 42        | 14116         | 12974         | 2           | Standard |
| Cr      | 53   | 0.033      | ug/L  | 0.007    | 21        | 169           | 200           | 5           | Standard |
| Mn      | 55   | -0.031     | ug/L  | 0.001    | 1         | 2166          | 1324          | 0           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 25853         | 24235         | 0           | KED      |
| Ni      | 60   | -0.013     | ug/L  | 0.004    | 34        | 24            | 10            | 36          | KED      |
| Ni      | 62   | -0.021     | ug/L  | 0.013    | 58        | 9             | 5             | 33          | KED      |
| Cu      | 63   | -0.005     | ug/L  | 0.000    | 6         | 49            | 33            | 3           | KED      |
| Cu      | 65   | -0.007     | ug/L  | 0.003    | 45        | 27            | 16            | 24          | KED      |
| Zn      | 66   | -0.006     | ug/L  | 0.011    | 204       | 20            | 17            | 22          | KED      |
| Zn      | 67   | -0.051     | ug/L  | 0.039    | 75        | 4             | 1             | 173         | KED      |
| As      | 75   | -0.008     | ug/L  | 0.009    | 108       | 6             | 4             | 34          | KED      |
| [ Se    | 78   | -0.208     | ug/L  | 0.052    | 25        | 19            | 14            | 6           | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 242430        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 37            | 17          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7009          | 6584          | 2           | KED      |
| Cd      | 111  | 0.006      | ug/L  | 0.015    | 250       | 4             | 5             | 56          | KED      |
| Cd      | 114  | -0.002     | ug/L  | 0.002    | 94        | 4             | 3             | 32          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 367469        | 332071        | 3           | Standard |
| Ag      | 107  | -0.004     | ug/L  | 0.001    | 19        | 86            | 34            | 27          | Standard |
| Ba      | 135  | -0.006     | ug/L  | 0.001    | 17        | 23            | 5             | 57          | Standard |
| [ Ba    | 137  | -0.006     | ug/L  | 0.001    | 13        | 37            | 5             | 66          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 619766        | 576763        | 2           | Standard |
| [ Pb    | 208  | -0.004     | ug/L  | 0.000    | 7         | 178           | 40            | 23          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 07:44:14

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 34177         | 1           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 3920106       | 2           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 460811        | 418563        | 1           | Standard |
| Cr      | 52   | 0.025      | ug/L  | 0.028    | 112       | 14116         | 13167         | 2           | Standard |
| Cr      | 53   | 0.025      | ug/L  | 0.004    | 16        | 169           | 193           | 2           | Standard |
| Mn      | 55   | -0.042     | ug/L  | 0.001    | 3         | 2166          | 1160          | 1           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 25853         | 23874         | 1           | KED      |
| Ni      | 60   | -0.013     | ug/L  | 0.006    | 50        | 24            | 10            | 53          | KED      |
| Ni      | 62   | -0.034     | ug/L  | 0.000    | 0         | 9             | 3             | 0           | KED      |
| Cu      | 63   | -0.004     | ug/L  | 0.003    | 67        | 49            | 35            | 20          | KED      |
| Cu      | 65   | -0.011     | ug/L  | 0.003    | 27        | 27            | 10            | 36          | KED      |
| Zn      | 66   | -0.025     | ug/L  | 0.013    | 52        | 20            | 10            | 40          | KED      |
| Zn      | 67   | -0.051     | ug/L  | 0.020    | 39        | 4             | 1             | 86          | KED      |
| As      | 75   | 0.000      | ug/L  | 0.002    | 1315      | 6             | 6             | 7           | KED      |
| Se      | 78   | 0.013      | ug/L  | 0.045    | 344       | 19            | 18            | 3           | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 239325        | 2           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 43            | 18          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7009          | 6563          | 1           | KED      |
| Cd      | 111  | 0.003      | ug/L  | 0.000    | 14        | 4             | 4             | 0           | KED      |
| Cd      | 114  | 0.001      | ug/L  | 0.010    | 1270      | 4             | 4             | 101         | KED      |
| [> In   | 115  |            | ug/L  |          |           | 367469        | 337531        | 1           | Standard |
| Ag      | 107  | -0.004     | ug/L  | 0.000    | 7         | 86            | 36            | 7           | Standard |
| Ba      | 135  | -0.006     | ug/L  | 0.001    | 19        | 23            | 5             | 57          | Standard |
| Ba      | 137  | -0.006     | ug/L  | 0.001    | 13        | 37            | 5             | 78          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 619766        | 563396        | 1           | Standard |
| Pb      | 208  | -0.004     | ug/L  | 0.000    | 5         | 178           | 27            | 25          | Standard |

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 07:48:59

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Method\200.8\_DailyMethod\_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS\_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode     |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C       | 13   |            | ug/L  |          |           | 33004         | 34374         | 2           | Standard |
| Cl      | 37   |            | ug/L  |          |           | 4319075       | 3906439       | 0           | Standard |
| [> Sc   | 45   |            | ug/L  |          |           | 460811        | 423964        | 2           | Standard |
| Cr      | 52   | 0.000      | ug/L  | 0.047    | 61488     | 14116         | 12978         | 2           | Standard |
| Cr      | 53   | 0.039      | ug/L  | 0.013    | 32        | 169           | 219           | 11          | Standard |
| Mn      | 55   | -0.048     | ug/L  | 0.001    | 1         | 2166          | 1058          | 3           | Standard |
| [> Ge   | 72   |            | ug/L  |          |           | 25853         | 24542         | 0           | KED      |
| Ni      | 60   | -0.018     | ug/L  | 0.001    | 6         | 24            | 6             | 17          | KED      |
| Ni      | 62   | -0.009     | ug/L  | 0.044    | 475       | 9             | 7             | 86          | KED      |
| Cu      | 63   | -0.009     | ug/L  | 0.001    | 12        | 49            | 23            | 12          | KED      |
| Cu      | 65   | -0.010     | ug/L  | 0.003    | 30        | 27            | 12            | 31          | KED      |
| Zn      | 66   | -0.043     | ug/L  | 0.013    | 29        | 20            | 5             | 86          | KED      |
| Zn      | 67   | -0.007     | ug/L  | 0.034    | 477       | 4             | 3             | 50          | KED      |
| As      | 75   | -0.008     | ug/L  | 0.006    | 73        | 6             | 4             | 20          | KED      |
| Se      | 78   | -0.342     | ug/L  | 0.068    | 20        | 19            | 11            | 11          | KED      |
| Y       | 89   |            | ug/L  |          |           | 261932        | 240577        | 0           | Standard |
| Kr      | 83   |            | ug/L  |          |           | 49            | 42            | 16          | Standard |
| [> In-1 | 115  |            | ug/L  |          |           | 7009          | 6528          | 1           | KED      |
| Cd      | 111  | 0.010      | ug/L  | 0.017    | 173       | 4             | 6             | 55          | KED      |
| Cd      | 114  | -0.002     | ug/L  | 0.002    | 110       | 4             | 3             | 34          | KED      |
| [> In   | 115  |            | ug/L  |          |           | 367469        | 333818        | 1           | Standard |
| Ag      | 107  | -0.004     | ug/L  | 0.001    | 32        | 86            | 39            | 31          | Standard |
| Ba      | 135  | -0.006     | ug/L  | 0.001    | 10        | 23            | 3             | 50          | Standard |
| Ba      | 137  | -0.006     | ug/L  | 0.000    | 6         | 37            | 5             | 33          | Standard |
| [> Tb   | 159  |            | ug/L  |          |           | 619766        | 572239        | 1           | Standard |
| Pb      | 208  | -0.004     | ug/L  | 0.000    | 4         | 178           | 26            | 23          | Standard |



**INITIAL AND CONTINUING  
CALIBRATION CHECK  
EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Control Limit: +/- 10.00%

Sequence: SLD0127

| Lab Sample ID | Analyte      | True        | Found  | %R   | Units | Method          |
|---------------|--------------|-------------|--------|------|-------|-----------------|
| SLD0127-ICV1  | Arsenic-75a  | 50.000      | 46.5   | 93.1 | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-111  | 50.000      | 49.7   | 99.5 | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-114  | 50.000      | 48.9   | 97.9 | ug/L  | PA 6020B UCT-KE |
|               | Copper-63    | 50.000      | 50.1   | 100  | ug/L  | PA 6020B UCT-KE |
|               | Copper-65    | 50.000      | 50.2   | 100  | ug/L  | PA 6020B UCT-KE |
|               | Zinc-66      | 50.000      | 48.6   | 97.1 | ug/L  | PA 6020B UCT-KE |
|               | Zinc-67      | 50.000      | 48.6   | 97.3 | ug/L  | PA 6020B UCT-KE |
|               | SLD0127-CCV1 | Arsenic-75a | 50.000 | 49.6 | 99.3  | ug/L            |
| Cadmium-111   |              | 50.000      | 49.5   | 98.9 | ug/L  | PA 6020B UCT-KE |
| Cadmium-114   |              | 50.000      | 49.7   | 99.5 | ug/L  | PA 6020B UCT-KE |
| Copper-63     |              | 50.000      | 50.1   | 100  | ug/L  | PA 6020B UCT-KE |
| Copper-65     |              | 50.000      | 50.2   | 100  | ug/L  | PA 6020B UCT-KE |
| Zinc-66       |              | 50.000      | 50.7   | 101  | ug/L  | PA 6020B UCT-KE |
| Zinc-67       |              | 50.000      | 50.6   | 101  | ug/L  | PA 6020B UCT-KE |
| SLD0127-CCV2  |              | Arsenic-75a | 50.000 | 49.3 | 98.5  | ug/L            |
|               | Cadmium-111  | 50.000      | 50.3   | 101  | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-114  | 50.000      | 50.4   | 101  | ug/L  | PA 6020B UCT-KE |
|               | Copper-63    | 50.000      | 49.2   | 98.5 | ug/L  | PA 6020B UCT-KE |
|               | Copper-65    | 50.000      | 49.2   | 98.5 | ug/L  | PA 6020B UCT-KE |
|               | Zinc-66      | 50.000      | 49.6   | 99.1 | ug/L  | PA 6020B UCT-KE |
|               | Zinc-67      | 50.000      | 51.1   | 102  | ug/L  | PA 6020B UCT-KE |
|               | SLD0127-CCV3 | Arsenic-75a | 50.000 | 49.3 | 98.7  | ug/L            |
| Cadmium-111   |              | 50.000      | 49.1   | 98.2 | ug/L  | PA 6020B UCT-KE |
| Cadmium-114   |              | 50.000      | 48.7   | 97.3 | ug/L  | PA 6020B UCT-KE |
| Copper-63     |              | 50.000      | 49.6   | 99.2 | ug/L  | PA 6020B UCT-KE |
| Copper-65     |              | 50.000      | 49.2   | 98.4 | ug/L  | PA 6020B UCT-KE |
| Zinc-66       |              | 50.000      | 50.0   | 99.9 | ug/L  | PA 6020B UCT-KE |
| Zinc-67       |              | 50.000      | 49.3   | 98.7 | ug/L  | PA 6020B UCT-KE |
| SLD0127-CCV4  |              | Arsenic-75a | 50.000 | 49.3 | 98.5  | ug/L            |
|               | Cadmium-111  | 50.000      | 50.1   | 100  | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-114  | 50.000      | 49.6   | 99.3 | ug/L  | PA 6020B UCT-KE |
|               | Copper-63    | 50.000      | 48.5   | 97.0 | ug/L  | PA 6020B UCT-KE |
|               | Copper-65    | 50.000      | 49.4   | 98.8 | ug/L  | PA 6020B UCT-KE |
|               | Zinc-66      | 50.000      | 49.5   | 99.0 | ug/L  | PA 6020B UCT-KE |



**INITIAL AND CONTINUING  
CALIBRATION CHECK  
EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Control Limit: +/- 10.00%

Sequence: SLD0127

| Lab Sample ID | Analyte     | True   | Found | %R   | Units | Method          |
|---------------|-------------|--------|-------|------|-------|-----------------|
| SLD0127-CCV4  | Zinc-67     | 50.000 | 50.5  | 101  | ug/L  | PA 6020B UCT-KE |
| SLD0127-CCV5  | Arsenic-75a | 50.000 | 50.3  | 101  | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-111 | 50.000 | 48.3  | 96.6 | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-114 | 50.000 | 48.9  | 97.9 | ug/L  | PA 6020B UCT-KE |
|               | Copper-63   | 50.000 | 48.7  | 97.4 | ug/L  | PA 6020B UCT-KE |
|               | Copper-65   | 50.000 | 49.7  | 99.4 | ug/L  | PA 6020B UCT-KE |
|               | Zinc-66     | 50.000 | 50.0  | 100  | ug/L  | PA 6020B UCT-KE |
|               | Zinc-67     | 50.000 | 50.0  | 99.9 | ug/L  | PA 6020B UCT-KE |
| SLD0127-CCV6  | Arsenic-75a | 50.000 | 49.9  | 99.7 | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-111 | 50.000 | 50.0  | 100  | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-114 | 50.000 | 49.9  | 99.7 | ug/L  | PA 6020B UCT-KE |
|               | Copper-63   | 50.000 | 49.6  | 99.3 | ug/L  | PA 6020B UCT-KE |
|               | Copper-65   | 50.000 | 49.7  | 99.4 | ug/L  | PA 6020B UCT-KE |
|               | Zinc-66     | 50.000 | 50.2  | 100  | ug/L  | PA 6020B UCT-KE |
|               | Zinc-67     | 50.000 | 51.3  | 103  | ug/L  | PA 6020B UCT-KE |
| SLD0127-CCV7  | Arsenic-75a | 50.000 | 49.3  | 98.5 | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-111 | 50.000 | 49.1  | 98.3 | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-114 | 50.000 | 49.8  | 99.6 | ug/L  | PA 6020B UCT-KE |
|               | Copper-63   | 50.000 | 48.2  | 96.4 | ug/L  | PA 6020B UCT-KE |
|               | Copper-65   | 50.000 | 48.3  | 96.7 | ug/L  | PA 6020B UCT-KE |
|               | Zinc-66     | 50.000 | 49.9  | 99.9 | ug/L  | PA 6020B UCT-KE |
|               | Zinc-67     | 50.000 | 49.3  | 98.6 | ug/L  | PA 6020B UCT-KE |
| SLD0127-CCV8  | Arsenic-75a | 50.000 | 50.3  | 101  | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-111 | 50.000 | 49.4  | 98.9 | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-114 | 50.000 | 49.7  | 99.4 | ug/L  | PA 6020B UCT-KE |
|               | Copper-63   | 50.000 | 50.1  | 100  | ug/L  | PA 6020B UCT-KE |
|               | Copper-65   | 50.000 | 49.9  | 99.7 | ug/L  | PA 6020B UCT-KE |
|               | Zinc-66     | 50.000 | 50.3  | 101  | ug/L  | PA 6020B UCT-KE |
|               | Zinc-67     | 50.000 | 49.9  | 99.8 | ug/L  | PA 6020B UCT-KE |
| SLD0127-CCV9  | Arsenic-75a | 50.000 | 51.2  | 102  | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-111 | 50.000 | 50.1  | 100  | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-114 | 50.000 | 49.6  | 99.3 | ug/L  | PA 6020B UCT-KE |
|               | Copper-63   | 50.000 | 50.8  | 102  | ug/L  | PA 6020B UCT-KE |
|               | Copper-65   | 50.000 | 51.6  | 103  | ug/L  | PA 6020B UCT-KE |



**INITIAL AND CONTINUING  
CALIBRATION CHECK  
EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Control Limit: +/- 10.00%

Sequence: SLD0127

| Lab Sample ID | Analyte     | True   | Found | %R   | Units | Method          |
|---------------|-------------|--------|-------|------|-------|-----------------|
| SLD0127-CCV9  | Zinc-66     | 50.000 | 51.5  | 103  | ug/L  | PA 6020B UCT-KE |
|               | Zinc-67     | 50.000 | 52.0  | 104  | ug/L  | PA 6020B UCT-KE |
| SLD0127-CCVA  | Arsenic-75a | 50.000 | 50.6  | 101  | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-111 | 50.000 | 49.6  | 99.1 | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-114 | 50.000 | 49.1  | 98.2 | ug/L  | PA 6020B UCT-KE |
|               | Copper-63   | 50.000 | 50.3  | 101  | ug/L  | PA 6020B UCT-KE |
|               | Copper-65   | 50.000 | 50.0  | 100  | ug/L  | PA 6020B UCT-KE |
|               | Zinc-66     | 50.000 | 50.2  | 100  | ug/L  | PA 6020B UCT-KE |
| SLD0127-CCVB  | Zinc-67     | 50.000 | 51.2  | 102  | ug/L  | PA 6020B UCT-KE |
|               | Arsenic-75a | 50.000 | 50.6  | 101  | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-111 | 50.000 | 50.3  | 101  | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-114 | 50.000 | 49.0  | 97.9 | ug/L  | PA 6020B UCT-KE |
|               | Copper-63   | 50.000 | 49.6  | 99.1 | ug/L  | PA 6020B UCT-KE |
|               | Copper-65   | 50.000 | 50.3  | 101  | ug/L  | PA 6020B UCT-KE |
| SLD0127-CCVC  | Zinc-66     | 50.000 | 50.3  | 101  | ug/L  | PA 6020B UCT-KE |
|               | Zinc-67     | 50.000 | 50.4  | 101  | ug/L  | PA 6020B UCT-KE |
|               | Arsenic-75a | 50.000 | 50.1  | 100  | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-111 | 50.000 | 51.2  | 102  | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-114 | 50.000 | 50.6  | 101  | ug/L  | PA 6020B UCT-KE |
|               | Copper-63   | 50.000 | 49.2  | 98.4 | ug/L  | PA 6020B UCT-KE |
| SLD0127-CCVD  | Copper-65   | 50.000 | 49.4  | 98.8 | ug/L  | PA 6020B UCT-KE |
|               | Zinc-66     | 50.000 | 49.9  | 99.8 | ug/L  | PA 6020B UCT-KE |
|               | Zinc-67     | 50.000 | 50.9  | 102  | ug/L  | PA 6020B UCT-KE |
|               | Arsenic-75a | 50.000 | 49.4  | 98.8 | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-111 | 50.000 | 50.9  | 102  | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-114 | 50.000 | 50.4  | 101  | ug/L  | PA 6020B UCT-KE |
| SLD0127-CCVE  | Copper-63   | 50.000 | 49.3  | 98.6 | ug/L  | PA 6020B UCT-KE |
|               | Copper-65   | 50.000 | 50.4  | 101  | ug/L  | PA 6020B UCT-KE |
|               | Zinc-66     | 50.000 | 50.3  | 101  | ug/L  | PA 6020B UCT-KE |
|               | Zinc-67     | 50.000 | 49.5  | 99.0 | ug/L  | PA 6020B UCT-KE |
|               | Arsenic-75a | 50.000 | 49.5  | 98.9 | ug/L  | PA 6020B UCT-KE |
|               | Cadmium-111 | 50.000 | 50.9  | 102  | ug/L  | PA 6020B UCT-KE |
| SLD0127-CCVE  | Cadmium-114 | 50.000 | 51.3  | 103  | ug/L  | PA 6020B UCT-KE |
|               | Copper-63   | 50.000 | 49.4  | 98.8 | ug/L  | PA 6020B UCT-KE |



**INITIAL AND CONTINUING  
CALIBRATION CHECK  
EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Control Limit: +/- 10.00%

Sequence: SLD0127

| Lab Sample ID | Analyte      | True        | Found  | %R   | Units | Method          |                 |
|---------------|--------------|-------------|--------|------|-------|-----------------|-----------------|
| SLD0127-CCVE  | Copper-65    | 50.000      | 49.7   | 99.4 | ug/L  | PA 6020B UCT-KE |                 |
|               | Zinc-66      | 50.000      | 50.2   | 100  | ug/L  | PA 6020B UCT-KE |                 |
|               | Zinc-67      | 50.000      | 50.6   | 101  | ug/L  | PA 6020B UCT-KE |                 |
| SLD0127-CCVF  | Arsenic-75a  | 50.000      | 49.2   | 98.3 | ug/L  | PA 6020B UCT-KE |                 |
|               | Cadmium-111  | 50.000      | 50.6   | 101  | ug/L  | PA 6020B UCT-KE |                 |
|               | Cadmium-114  | 50.000      | 50.5   | 101  | ug/L  | PA 6020B UCT-KE |                 |
|               | Copper-63    | 50.000      | 50.1   | 100  | ug/L  | PA 6020B UCT-KE |                 |
|               | Copper-65    | 50.000      | 49.1   | 98.2 | ug/L  | PA 6020B UCT-KE |                 |
|               | Zinc-66      | 50.000      | 50.2   | 100  | ug/L  | PA 6020B UCT-KE |                 |
|               | Zinc-67      | 50.000      | 49.5   | 98.9 | ug/L  | PA 6020B UCT-KE |                 |
|               | SLD0127-CCVG | Arsenic-75a | 50.000 | 50.2 | 100   | ug/L            | PA 6020B UCT-KE |
|               |              | Cadmium-111 | 50.000 | 51.3 | 103   | ug/L            | PA 6020B UCT-KE |
| Cadmium-114   |              | 50.000      | 50.6   | 101  | ug/L  | PA 6020B UCT-KE |                 |
| Copper-63     |              | 50.000      | 49.6   | 99.2 | ug/L  | PA 6020B UCT-KE |                 |
| Copper-65     |              | 50.000      | 49.9   | 99.8 | ug/L  | PA 6020B UCT-KE |                 |
| Zinc-66       |              | 50.000      | 50.6   | 101  | ug/L  | PA 6020B UCT-KE |                 |
| Zinc-67       |              | 50.000      | 50.2   | 100  | ug/L  | PA 6020B UCT-KE |                 |
| SLD0127-CCVH  |              | Arsenic-75a | 50.000 | 49.6 | 99.2  | ug/L            | PA 6020B UCT-KE |
|               |              | Cadmium-111 | 50.000 | 51.6 | 103   | ug/L            | PA 6020B UCT-KE |
|               | Cadmium-114  | 50.000      | 51.3   | 103  | ug/L  | PA 6020B UCT-KE |                 |
|               | Copper-63    | 50.000      | 50.4   | 101  | ug/L  | PA 6020B UCT-KE |                 |
|               | Copper-65    | 50.000      | 51.0   | 102  | ug/L  | PA 6020B UCT-KE |                 |
|               | Zinc-66      | 50.000      | 51.7   | 103  | ug/L  | PA 6020B UCT-KE |                 |
|               | Zinc-67      | 50.000      | 51.6   | 103  | ug/L  | PA 6020B UCT-KE |                 |
|               | SLD0127-CCVI | Arsenic-75a | 50.000 | 49.4 | 98.8  | ug/L            | PA 6020B UCT-KE |
|               |              | Cadmium-111 | 50.000 | 50.6 | 101   | ug/L            | PA 6020B UCT-KE |
| Cadmium-114   |              | 50.000      | 50.8   | 102  | ug/L  | PA 6020B UCT-KE |                 |
| Copper-63     |              | 50.000      | 50.2   | 100  | ug/L  | PA 6020B UCT-KE |                 |
| Copper-65     |              | 50.000      | 49.9   | 99.9 | ug/L  | PA 6020B UCT-KE |                 |
| Zinc-66       |              | 50.000      | 49.9   | 99.8 | ug/L  | PA 6020B UCT-KE |                 |
| Zinc-67       |              | 50.000      | 50.7   | 101  | ug/L  | PA 6020B UCT-KE |                 |
| SLD0127-CCVJ  |              | Arsenic-75a | 50.000 | 50.3 | 101   | ug/L            | PA 6020B UCT-KE |
|               |              | Cadmium-111 | 50.000 | 51.3 | 103   | ug/L            | PA 6020B UCT-KE |
|               | Cadmium-114  | 50.000      | 50.4   | 101  | ug/L  | PA 6020B UCT-KE |                 |



**INITIAL AND CONTINUING  
CALIBRATION CHECK  
EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Control Limit: +/- 10.00%

Sequence: SLD0127

| Lab Sample ID | Analyte   | True   | Found | %R   | Units | Method          |
|---------------|-----------|--------|-------|------|-------|-----------------|
| SLD0127-CCVJ  | Copper-63 | 50.000 | 50.7  | 101  | ug/L  | PA 6020B UCT-KE |
|               | Copper-65 | 50.000 | 50.7  | 101  | ug/L  | PA 6020B UCT-KE |
|               | Zinc-66   | 50.000 | 50.1  | 100  | ug/L  | PA 6020B UCT-KE |
|               | Zinc-67   | 50.000 | 49.7  | 99.4 | ug/L  | PA 6020B UCT-KE |

\* Values outside of QC limits





**INSTRUMENT BLANKS**  
**EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/07/23 14:35

| Lab Sample ID | Analyte     | Found    | MDL    | MRL   | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-IBL1  | Arsenic-75a | 0.0110   | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-IBL1  | Cadmium-111 | 0.00200  | 0.03   | 0.100 | ug/L  |   |
| SLD0127-IBL1  | Cadmium-114 | -0.00300 | 0.04   | 0.100 | ug/L  |   |
| SLD0127-IBL1  | Copper-63   | 0.00     | 0.173  | 0.500 | ug/L  |   |
| SLD0127-IBL1  | Copper-65   | 0.00     | 0.35   | 0.500 | ug/L  |   |
| SLD0127-IBL1  | Zinc-66     | 0.0050   | 2.92   | 6.00  | ug/L  |   |
| SLD0127-IBL1  | Zinc-67     | 0.0100   | 0.94   | 6.00  | ug/L  |   |
| SLD0127-ICB1  | Arsenic-75a | 0.00400  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-ICB1  | Cadmium-111 | 0.0100   | 0.03   | 0.100 | ug/L  |   |
| SLD0127-ICB1  | Cadmium-114 | -0.00300 | 0.04   | 0.100 | ug/L  |   |
| SLD0127-ICB1  | Copper-63   | -0.00100 | 0.173  | 0.500 | ug/L  |   |
| SLD0127-ICB1  | Copper-65   | 0.00     | 0.35   | 0.500 | ug/L  |   |
| SLD0127-ICB1  | Zinc-66     | -0.0050  | 2.92   | 6.00  | ug/L  |   |
| SLD0127-ICB1  | Zinc-67     | 0.0270   | 0.94   | 6.00  | ug/L  |   |
| SLD0127-CCB1  | Arsenic-75a | 0.00700  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-CCB1  | Cadmium-111 | 0.00400  | 0.03   | 0.100 | ug/L  |   |
| SLD0127-CCB1  | Cadmium-114 | -0.00300 | 0.04   | 0.100 | ug/L  |   |
| SLD0127-CCB1  | Copper-63   | 0.00100  | 0.173  | 0.500 | ug/L  |   |
| SLD0127-CCB1  | Copper-65   | 0.00400  | 0.35   | 0.500 | ug/L  |   |
| SLD0127-CCB1  | Zinc-66     | -0.0050  | 2.92   | 6.00  | ug/L  |   |
| SLD0127-CCB1  | Zinc-67     | 0.0100   | 0.94   | 6.00  | ug/L  |   |
| SLD0127-IBL2  | Arsenic-75a | 0.0100   | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-IBL2  | Cadmium-111 | 0.00300  | 0.03   | 0.100 | ug/L  |   |
| SLD0127-IBL2  | Cadmium-114 | -0.00500 | 0.04   | 0.100 | ug/L  |   |
| SLD0127-IBL2  | Copper-63   | 0.00500  | 0.173  | 0.500 | ug/L  |   |
| SLD0127-IBL2  | Copper-65   | 0.00500  | 0.35   | 0.500 | ug/L  |   |
| SLD0127-IBL2  | Zinc-66     | 0.0160   | 2.92   | 6.00  | ug/L  |   |
| SLD0127-IBL2  | Zinc-67     | -0.0260  | 0.94   | 6.00  | ug/L  |   |
| SLD0127-IBL3  | Arsenic-75a | 0.00700  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-IBL3  | Cadmium-111 | -0.00100 | 0.03   | 0.100 | ug/L  |   |
| SLD0127-IBL3  | Cadmium-114 | -0.00100 | 0.04   | 0.100 | ug/L  |   |
| SLD0127-IBL3  | Copper-63   | -0.00300 | 0.173  | 0.500 | ug/L  |   |
| SLD0127-IBL3  | Copper-65   | 0.00200  | 0.35   | 0.500 | ug/L  |   |
| SLD0127-IBL3  | Zinc-66     | 0.0070   | 2.92   | 6.00  | ug/L  |   |
| SLD0127-IBL3  | Zinc-67     | -0.0350  | 0.94   | 6.00  | ug/L  |   |



**INSTRUMENT BLANKS**  
**EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/07/23 16:00

| Lab Sample ID | Analyte     | Found    | MDL    | MRL   | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-CCB2  | Arsenic-75a | 0.0140   | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-CCB2  | Cadmium-111 | 0.0170   | 0.03   | 0.100 | ug/L  |   |
| SLD0127-CCB2  | Cadmium-114 | -0.00400 | 0.04   | 0.100 | ug/L  |   |
| SLD0127-CCB2  | Copper-63   | 0.00300  | 0.173  | 0.500 | ug/L  |   |
| SLD0127-CCB2  | Copper-65   | -0.00300 | 0.35   | 0.500 | ug/L  |   |
| SLD0127-CCB2  | Zinc-66     | 0.0040   | 2.92   | 6.00  | ug/L  |   |
| SLD0127-CCB2  | Zinc-67     | -0.0250  | 0.94   | 6.00  | ug/L  |   |
| SLD0127-CCB3  | Arsenic-75a | -0.0300  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-CCB3  | Cadmium-111 | -0.00800 | 0.03   | 0.100 | ug/L  |   |
| SLD0127-CCB3  | Cadmium-114 | 0.00200  | 0.04   | 0.100 | ug/L  |   |
| SLD0127-CCB3  | Copper-63   | -0.00900 | 0.173  | 0.500 | ug/L  |   |
| SLD0127-CCB3  | Copper-65   | 0.00700  | 0.35   | 0.500 | ug/L  |   |
| SLD0127-CCB3  | Zinc-66     | -0.0440  | 2.92   | 6.00  | ug/L  |   |
| SLD0127-CCB3  | Zinc-67     | 0.0180   | 0.94   | 6.00  | ug/L  |   |
| SLD0127-IBL4  | Arsenic-75a | -0.0440  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-IBL4  | Cadmium-111 | -0.00300 | 0.03   | 0.100 | ug/L  |   |
| SLD0127-IBL4  | Cadmium-114 | 0.00100  | 0.04   | 0.100 | ug/L  |   |
| SLD0127-IBL4  | Copper-63   | -0.00500 | 0.173  | 0.500 | ug/L  |   |
| SLD0127-IBL4  | Copper-65   | 0.00200  | 0.35   | 0.500 | ug/L  |   |
| SLD0127-IBL4  | Zinc-66     | -0.0450  | 2.92   | 6.00  | ug/L  |   |
| SLD0127-IBL4  | Zinc-67     | -0.0070  | 0.94   | 6.00  | ug/L  |   |
| SLD0127-CCB4  | Arsenic-75a | -0.0440  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-CCB4  | Cadmium-111 | 0.00400  | 0.03   | 0.100 | ug/L  |   |
| SLD0127-CCB4  | Cadmium-114 | 0.00     | 0.04   | 0.100 | ug/L  |   |
| SLD0127-CCB4  | Copper-63   | -0.00300 | 0.173  | 0.500 | ug/L  |   |
| SLD0127-CCB4  | Copper-65   | 0.00500  | 0.35   | 0.500 | ug/L  |   |
| SLD0127-CCB4  | Zinc-66     | -0.0340  | 2.92   | 6.00  | ug/L  |   |
| SLD0127-CCB4  | Zinc-67     | 0.0020   | 0.94   | 6.00  | ug/L  |   |
| SLD0127-IBL5  | Arsenic-75a | -0.0420  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-IBL5  | Cadmium-111 | 0.00500  | 0.03   | 0.100 | ug/L  |   |
| SLD0127-IBL5  | Cadmium-114 | 0.00100  | 0.04   | 0.100 | ug/L  |   |
| SLD0127-IBL5  | Copper-63   | -0.00300 | 0.173  | 0.500 | ug/L  |   |
| SLD0127-IBL5  | Copper-65   | 0.00200  | 0.35   | 0.500 | ug/L  |   |
| SLD0127-IBL5  | Zinc-66     | -0.0540  | 2.92   | 6.00  | ug/L  |   |
| SLD0127-IBL5  | Zinc-67     | -0.0260  | 0.94   | 6.00  | ug/L  |   |
| SLD0127-CCB5  | Arsenic-75a | -0.0480  | 0.0373 | 0.200 | ug/L  |   |



**INSTRUMENT BLANKS**  
**EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/07/23 18:41

| Lab Sample ID | Analyte     | Found    | MDL    | MRL   | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-CCB5  | Cadmium-111 | -0.00900 | 0.03   | 0.100 | ug/L  |   |
| SLD0127-CCB5  | Cadmium-114 | 0.00600  | 0.04   | 0.100 | ug/L  |   |
| SLD0127-CCB5  | Copper-63   | -0.00800 | 0.173  | 0.500 | ug/L  |   |
| SLD0127-CCB5  | Copper-65   | 0.00100  | 0.35   | 0.500 | ug/L  |   |
| SLD0127-CCB5  | Zinc-66     | -0.0450  | 2.92   | 6.00  | ug/L  |   |
| SLD0127-CCB5  | Zinc-67     | -0.0080  | 0.94   | 6.00  | ug/L  |   |
| SLD0127-IBL6  | Arsenic-75a | -0.0570  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-IBL6  | Cadmium-111 | -0.00900 | 0.03   | 0.100 | ug/L  |   |
| SLD0127-IBL6  | Cadmium-114 | 0.00700  | 0.04   | 0.100 | ug/L  |   |
| SLD0127-IBL6  | Copper-63   | 0.0310   | 0.173  | 0.500 | ug/L  |   |
| SLD0127-IBL6  | Copper-65   | 0.0410   | 0.35   | 0.500 | ug/L  |   |
| SLD0127-IBL6  | Zinc-66     | 0.0030   | 2.92   | 6.00  | ug/L  |   |
| SLD0127-IBL6  | Zinc-67     | 0.0600   | 0.94   | 6.00  | ug/L  |   |
| SLD0127-CCB6  | Arsenic-75a | -0.0430  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-CCB6  | Cadmium-111 | -0.00600 | 0.03   | 0.100 | ug/L  |   |
| SLD0127-CCB6  | Cadmium-114 | 0.00300  | 0.04   | 0.100 | ug/L  |   |
| SLD0127-CCB6  | Copper-63   | -0.00700 | 0.173  | 0.500 | ug/L  |   |
| SLD0127-CCB6  | Copper-65   | 0.00100  | 0.35   | 0.500 | ug/L  |   |
| SLD0127-CCB6  | Zinc-66     | -0.0330  | 2.92   | 6.00  | ug/L  |   |
| SLD0127-CCB6  | Zinc-67     | 0.0440   | 0.94   | 6.00  | ug/L  |   |
| SLD0127-IBL7  | Arsenic-75a | -0.0490  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-IBL7  | Cadmium-111 | 0.00800  | 0.03   | 0.100 | ug/L  |   |
| SLD0127-IBL7  | Cadmium-114 | -0.00200 | 0.04   | 0.100 | ug/L  |   |
| SLD0127-IBL7  | Copper-63   | 0.0310   | 0.173  | 0.500 | ug/L  |   |
| SLD0127-IBL7  | Copper-65   | 0.0350   | 0.35   | 0.500 | ug/L  |   |
| SLD0127-IBL7  | Zinc-66     | -0.0070  | 2.92   | 6.00  | ug/L  |   |
| SLD0127-IBL7  | Zinc-67     | 0.126    | 0.94   | 6.00  | ug/L  |   |
| SLD0127-CCB7  | Arsenic-75a | -0.0520  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-CCB7  | Cadmium-111 | 0.00500  | 0.03   | 0.100 | ug/L  |   |
| SLD0127-CCB7  | Cadmium-114 | 0.00300  | 0.04   | 0.100 | ug/L  |   |
| SLD0127-CCB7  | Copper-63   | -0.00600 | 0.173  | 0.500 | ug/L  |   |
| SLD0127-CCB7  | Copper-65   | 0.00     | 0.35   | 0.500 | ug/L  |   |
| SLD0127-CCB7  | Zinc-66     | -0.0430  | 2.92   | 6.00  | ug/L  |   |
| SLD0127-CCB7  | Zinc-67     | 0.0060   | 0.94   | 6.00  | ug/L  |   |
| SLD0127-IBL8  | Arsenic-75a | -0.0530  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-IBL8  | Cadmium-111 | -0.00100 | 0.03   | 0.100 | ug/L  |   |



**INSTRUMENT BLANKS**  
**EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/07/23 21:29

| Lab Sample ID | Analyte     | Found    | MDL    | MRL   | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-IBL8  | Cadmium-114 | 0.00400  | 0.04   | 0.100 | ug/L  |   |
| SLD0127-IBL8  | Copper-63   | 0.0320   | 0.173  | 0.500 | ug/L  |   |
| SLD0127-IBL8  | Copper-65   | 0.0390   | 0.35   | 0.500 | ug/L  |   |
| SLD0127-IBL8  | Zinc-66     | -0.0050  | 2.92   | 6.00  | ug/L  |   |
| SLD0127-IBL8  | Zinc-67     | 0.0980   | 0.94   | 6.00  | ug/L  |   |
| SLD0127-CCB8  | Arsenic-75a | -0.0460  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-CCB8  | Cadmium-111 | 0.00900  | 0.03   | 0.100 | ug/L  |   |
| SLD0127-CCB8  | Cadmium-114 | -0.00100 | 0.04   | 0.100 | ug/L  |   |
| SLD0127-CCB8  | Copper-63   | -0.00500 | 0.173  | 0.500 | ug/L  |   |
| SLD0127-CCB8  | Copper-65   | 0.00600  | 0.35   | 0.500 | ug/L  |   |
| SLD0127-CCB8  | Zinc-66     | -0.0290  | 2.92   | 6.00  | ug/L  |   |
| SLD0127-CCB8  | Zinc-67     | -0.0140  | 0.94   | 6.00  | ug/L  |   |
| SLD0127-IBL9  | Arsenic-75a | -0.0410  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-IBL9  | Cadmium-111 | -0.00500 | 0.03   | 0.100 | ug/L  |   |
| SLD0127-IBL9  | Cadmium-114 | 0.00800  | 0.04   | 0.100 | ug/L  |   |
| SLD0127-IBL9  | Copper-63   | 0.0300   | 0.173  | 0.500 | ug/L  |   |
| SLD0127-IBL9  | Copper-65   | 0.0370   | 0.35   | 0.500 | ug/L  |   |
| SLD0127-IBL9  | Zinc-66     | 0.0060   | 2.92   | 6.00  | ug/L  |   |
| SLD0127-IBL9  | Zinc-67     | 0.0360   | 0.94   | 6.00  | ug/L  |   |
| SLD0127-CCB9  | Arsenic-75a | -0.0470  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-CCB9  | Cadmium-111 | 0.00700  | 0.03   | 0.100 | ug/L  |   |
| SLD0127-CCB9  | Cadmium-114 | 0.00400  | 0.04   | 0.100 | ug/L  |   |
| SLD0127-CCB9  | Copper-63   | -0.0100  | 0.173  | 0.500 | ug/L  |   |
| SLD0127-CCB9  | Copper-65   | -0.00100 | 0.35   | 0.500 | ug/L  |   |
| SLD0127-CCB9  | Zinc-66     | -0.0330  | 2.92   | 6.00  | ug/L  |   |
| SLD0127-CCB9  | Zinc-67     | 0.0270   | 0.94   | 6.00  | ug/L  |   |
| SLD0127-IBLA  | Arsenic-75a | -0.0420  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-IBLA  | Cadmium-111 | 0.00300  | 0.03   | 0.100 | ug/L  |   |
| SLD0127-IBLA  | Cadmium-114 | 0.00     | 0.04   | 0.100 | ug/L  |   |
| SLD0127-IBLA  | Copper-63   | 0.0280   | 0.173  | 0.500 | ug/L  |   |
| SLD0127-IBLA  | Copper-65   | 0.0380   | 0.35   | 0.500 | ug/L  |   |
| SLD0127-IBLA  | Zinc-66     | 0.0080   | 2.92   | 6.00  | ug/L  |   |
| SLD0127-IBLA  | Zinc-67     | 0.0280   | 0.94   | 6.00  | ug/L  |   |
| SLD0127-CCBA  | Arsenic-75a | -0.0440  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-CCBA  | Cadmium-111 | 0.00500  | 0.03   | 0.100 | ug/L  |   |
| SLD0127-CCBA  | Cadmium-114 | 0.00800  | 0.04   | 0.100 | ug/L  |   |



**INSTRUMENT BLANKS**  
**EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/07/23 23:41

| Lab Sample ID | Analyte     | Found    | MDL    | MRL   | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-CCBA  | Copper-63   | -0.00700 | 0.173  | 0.500 | ug/L  |   |
| SLD0127-CCBA  | Copper-65   | 0.00300  | 0.35   | 0.500 | ug/L  |   |
| SLD0127-CCBA  | Zinc-66     | -0.0220  | 2.92   | 6.00  | ug/L  |   |
| SLD0127-CCBA  | Zinc-67     | 0.0170   | 0.94   | 6.00  | ug/L  |   |
| SLD0127-CCBB  | Arsenic-75a | 0.00500  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-CCBB  | Cadmium-111 | -0.00100 | 0.03   | 0.100 | ug/L  |   |
| SLD0127-CCBB  | Cadmium-114 | 0.0100   | 0.04   | 0.100 | ug/L  |   |
| SLD0127-CCBB  | Copper-63   | 0.00200  | 0.173  | 0.500 | ug/L  |   |
| SLD0127-CCBB  | Copper-65   | 0.00400  | 0.35   | 0.500 | ug/L  |   |
| SLD0127-CCBB  | Zinc-66     | 0.0070   | 2.92   | 6.00  | ug/L  |   |
| SLD0127-CCBB  | Zinc-67     | 0.0630   | 0.94   | 6.00  | ug/L  |   |
| SLD0127-IBLC  | Arsenic-75a | -0.00700 | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-IBLC  | Cadmium-111 | 0.00400  | 0.03   | 0.100 | ug/L  |   |
| SLD0127-IBLC  | Cadmium-114 | 0.00700  | 0.04   | 0.100 | ug/L  |   |
| SLD0127-IBLC  | Copper-63   | 0.0430   | 0.173  | 0.500 | ug/L  |   |
| SLD0127-IBLC  | Copper-65   | 0.0290   | 0.35   | 0.500 | ug/L  |   |
| SLD0127-IBLC  | Zinc-66     | 0.0320   | 2.92   | 6.00  | ug/L  |   |
| SLD0127-IBLC  | Zinc-67     | 0.0960   | 0.94   | 6.00  | ug/L  |   |
| SLD0127-CCBC  | Arsenic-75a | -0.00700 | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-CCBC  | Cadmium-111 | -0.00500 | 0.03   | 0.100 | ug/L  |   |
| SLD0127-CCBC  | Cadmium-114 | -0.00200 | 0.04   | 0.100 | ug/L  |   |
| SLD0127-CCBC  | Copper-63   | 0.00400  | 0.173  | 0.500 | ug/L  |   |
| SLD0127-CCBC  | Copper-65   | -0.00200 | 0.35   | 0.500 | ug/L  |   |
| SLD0127-CCBC  | Zinc-66     | -0.0280  | 2.92   | 6.00  | ug/L  |   |
| SLD0127-CCBC  | Zinc-67     | 0.0220   | 0.94   | 6.00  | ug/L  |   |
| SLD0127-IBLD  | Arsenic-75a | -0.00500 | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-IBLD  | Cadmium-111 | 0.0780   | 0.03   | 0.100 | ug/L  |   |
| SLD0127-IBLD  | Cadmium-114 | 0.0600   | 0.04   | 0.100 | ug/L  |   |
| SLD0127-IBLD  | Copper-63   | 0.0370   | 0.173  | 0.500 | ug/L  |   |
| SLD0127-IBLD  | Copper-65   | 0.0340   | 0.35   | 0.500 | ug/L  |   |
| SLD0127-IBLD  | Zinc-66     | 0.0890   | 2.92   | 6.00  | ug/L  |   |
| SLD0127-IBLD  | Zinc-67     | 0.0960   | 0.94   | 6.00  | ug/L  |   |
| SLD0127-CCBD  | Arsenic-75a | -0.0110  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-CCBD  | Cadmium-111 | 0.00400  | 0.03   | 0.100 | ug/L  |   |
| SLD0127-CCBD  | Cadmium-114 | -0.00100 | 0.04   | 0.100 | ug/L  |   |
| SLD0127-CCBD  | Copper-63   | 0.00300  | 0.173  | 0.500 | ug/L  |   |



**INSTRUMENT BLANKS**  
**EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/08/23 01:58

| Lab Sample ID | Analyte     | Found    | MDL    | MRL   | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-CCBD  | Copper-65   | -0.00400 | 0.35   | 0.500 | ug/L  |   |
| SLD0127-CCBD  | Zinc-66     | -0.0020  | 2.92   | 6.00  | ug/L  |   |
| SLD0127-CCBD  | Zinc-67     | 0.0020   | 0.94   | 6.00  | ug/L  |   |
| SLD0127-IBL   | Arsenic-75a | -0.0110  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-IBL   | Cadmium-111 | 0.00100  | 0.03   | 0.100 | ug/L  |   |
| SLD0127-IBL   | Cadmium-114 | 0.00200  | 0.04   | 0.100 | ug/L  |   |
| SLD0127-IBL   | Copper-63   | 0.0380   | 0.173  | 0.500 | ug/L  |   |
| SLD0127-IBL   | Copper-65   | 0.0380   | 0.35   | 0.500 | ug/L  |   |
| SLD0127-IBL   | Zinc-66     | 0.0550   | 2.92   | 6.00  | ug/L  |   |
| SLD0127-IBL   | Zinc-67     | 0.0230   | 0.94   | 6.00  | ug/L  |   |
| SLD0127-CCBE  | Arsenic-75a | -0.00500 | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-CCBE  | Cadmium-111 | 0.00100  | 0.03   | 0.100 | ug/L  |   |
| SLD0127-CCBE  | Cadmium-114 | 0.00100  | 0.04   | 0.100 | ug/L  |   |
| SLD0127-CCBE  | Copper-63   | 0.00300  | 0.173  | 0.500 | ug/L  |   |
| SLD0127-CCBE  | Copper-65   | 0.00     | 0.35   | 0.500 | ug/L  |   |
| SLD0127-CCBE  | Zinc-66     | -0.0060  | 2.92   | 6.00  | ug/L  |   |
| SLD0127-CCBE  | Zinc-67     | -0.0070  | 0.94   | 6.00  | ug/L  |   |
| SLD0127-IBLF  | Arsenic-75a | 0.00500  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-IBLF  | Cadmium-111 | -0.00900 | 0.03   | 0.100 | ug/L  |   |
| SLD0127-IBLF  | Cadmium-114 | 0.00300  | 0.04   | 0.100 | ug/L  |   |
| SLD0127-IBLF  | Copper-63   | 0.00500  | 0.173  | 0.500 | ug/L  |   |
| SLD0127-IBLF  | Copper-65   | 0.00300  | 0.35   | 0.500 | ug/L  |   |
| SLD0127-IBLF  | Zinc-66     | 0.0040   | 2.92   | 6.00  | ug/L  |   |
| SLD0127-IBLF  | Zinc-67     | 0.0010   | 0.94   | 6.00  | ug/L  |   |
| SLD0127-CCBF  | Arsenic-75a | -0.00800 | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-CCBF  | Cadmium-111 | 0.00     | 0.03   | 0.100 | ug/L  |   |
| SLD0127-CCBF  | Cadmium-114 | 0.00900  | 0.04   | 0.100 | ug/L  |   |
| SLD0127-CCBF  | Copper-63   | 0.00100  | 0.173  | 0.500 | ug/L  |   |
| SLD0127-CCBF  | Copper-65   | -0.00100 | 0.35   | 0.500 | ug/L  |   |
| SLD0127-CCBF  | Zinc-66     | -0.0080  | 2.92   | 6.00  | ug/L  |   |
| SLD0127-CCBF  | Zinc-67     | -0.0290  | 0.94   | 6.00  | ug/L  |   |
| SLD0127-CCBG  | Arsenic-75a | 0.00     | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-CCBG  | Cadmium-111 | 0.00300  | 0.03   | 0.100 | ug/L  |   |
| SLD0127-CCBG  | Cadmium-114 | -0.00200 | 0.04   | 0.100 | ug/L  |   |
| SLD0127-CCBG  | Copper-63   | -0.00200 | 0.173  | 0.500 | ug/L  |   |
| SLD0127-CCBG  | Copper-65   | -0.00500 | 0.35   | 0.500 | ug/L  |   |



**INSTRUMENT BLANKS**  
**EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/08/23 04:17

| Lab Sample ID | Analyte     | Found    | MDL    | MRL   | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-CCBG  | Zinc-66     | -0.0130  | 2.92   | 6.00  | ug/L  |   |
| SLD0127-CCBG  | Zinc-67     | -0.0090  | 0.94   | 6.00  | ug/L  |   |
| SLD0127-IBLH  | Arsenic-75a | -0.00200 | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-IBLH  | Cadmium-111 | -0.00500 | 0.03   | 0.100 | ug/L  |   |
| SLD0127-IBLH  | Cadmium-114 | -0.00300 | 0.04   | 0.100 | ug/L  |   |
| SLD0127-IBLH  | Copper-63   | 0.00300  | 0.173  | 0.500 | ug/L  |   |
| SLD0127-IBLH  | Copper-65   | -0.00100 | 0.35   | 0.500 | ug/L  |   |
| SLD0127-IBLH  | Zinc-66     | 0.0340   | 2.92   | 6.00  | ug/L  |   |
| SLD0127-IBLH  | Zinc-67     | -0.0090  | 0.94   | 6.00  | ug/L  |   |
| SLD0127-CCBH  | Arsenic-75a | 0.0190   | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-CCBH  | Cadmium-111 | -0.00900 | 0.03   | 0.100 | ug/L  |   |
| SLD0127-CCBH  | Cadmium-114 | -0.00700 | 0.04   | 0.100 | ug/L  |   |
| SLD0127-CCBH  | Copper-63   | 0.00900  | 0.173  | 0.500 | ug/L  |   |
| SLD0127-CCBH  | Copper-65   | 0.0130   | 0.35   | 0.500 | ug/L  |   |
| SLD0127-CCBH  | Zinc-66     | 0.0230   | 2.92   | 6.00  | ug/L  |   |
| SLD0127-CCBH  | Zinc-67     | 0.0020   | 0.94   | 6.00  | ug/L  |   |
| SLD0127-IBLI  | Arsenic-75a | 0.00200  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-IBLI  | Cadmium-111 | -0.00400 | 0.03   | 0.100 | ug/L  |   |
| SLD0127-IBLI  | Cadmium-114 | -0.00100 | 0.04   | 0.100 | ug/L  |   |
| SLD0127-IBLI  | Copper-63   | 0.00100  | 0.173  | 0.500 | ug/L  |   |
| SLD0127-IBLI  | Copper-65   | 0.00     | 0.35   | 0.500 | ug/L  |   |
| SLD0127-IBLI  | Zinc-66     | 0.0080   | 2.92   | 6.00  | ug/L  |   |
| SLD0127-IBLI  | Zinc-67     | -0.0180  | 0.94   | 6.00  | ug/L  |   |
| SLD0127-CCBI  | Arsenic-75a | -0.00800 | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-CCBI  | Cadmium-111 | -0.00900 | 0.03   | 0.100 | ug/L  |   |
| SLD0127-CCBI  | Cadmium-114 | 0.00     | 0.04   | 0.100 | ug/L  |   |
| SLD0127-CCBI  | Copper-63   | -0.00100 | 0.173  | 0.500 | ug/L  |   |
| SLD0127-CCBI  | Copper-65   | -0.00400 | 0.35   | 0.500 | ug/L  |   |
| SLD0127-CCBI  | Zinc-66     | -0.0090  | 2.92   | 6.00  | ug/L  |   |
| SLD0127-CCBI  | Zinc-67     | -0.0180  | 0.94   | 6.00  | ug/L  |   |
| SLD0127-IBLJ  | Arsenic-75a | -0.0100  | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-IBLJ  | Cadmium-111 | -0.00200 | 0.03   | 0.100 | ug/L  |   |
| SLD0127-IBLJ  | Cadmium-114 | 0.00     | 0.04   | 0.100 | ug/L  |   |
| SLD0127-IBLJ  | Copper-63   | 0.00200  | 0.173  | 0.500 | ug/L  |   |
| SLD0127-IBLJ  | Copper-65   | 0.00     | 0.35   | 0.500 | ug/L  |   |
| SLD0127-IBLJ  | Zinc-66     | 0.0240   | 2.92   | 6.00  | ug/L  |   |



**INSTRUMENT BLANKS**  
**EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/08/23 07:08

| Lab Sample ID | Analyte     | Found    | MDL    | MRL   | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-IBLJ  | Zinc-67     | -0.0200  | 0.94   | 6.00  | ug/L  |   |
| SLD0127-CCBJ  | Arsenic-75a | -0.00100 | 0.0373 | 0.200 | ug/L  |   |
| SLD0127-CCBJ  | Cadmium-111 | -0.00600 | 0.03   | 0.100 | ug/L  |   |
| SLD0127-CCBJ  | Cadmium-114 | -0.00600 | 0.04   | 0.100 | ug/L  |   |
| SLD0127-CCBJ  | Copper-63   | -0.00100 | 0.173  | 0.500 | ug/L  |   |
| SLD0127-CCBJ  | Copper-65   | -0.00200 | 0.35   | 0.500 | ug/L  |   |
| SLD0127-CCBJ  | Zinc-66     | 0.0020   | 2.92   | 6.00  | ug/L  |   |
| SLD0127-CCBJ  | Zinc-67     | -0.0520  | 0.94   | 6.00  | ug/L  |   |





## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name          | Lab Sample ID | Lab File ID      | Matrix | Analysis Date/Time |
|----------------------|---------------|------------------|--------|--------------------|
| CAL 0                | SLD0127-CAL1  | XDT_m2230407-006 | NA     | 04/07/23 14:00     |
| CAL 1 - LOW CHECK    | SLD0127-CAL2  | XDT_m2230407-007 | NA     | 04/07/23 14:05     |
| CAL 2                | SLD0127-CAL3  | XDT_m2230407-008 | NA     | 04/07/23 14:10     |
| CAL 3                | SLD0127-CAL4  | XDT_m2230407-009 | NA     | 04/07/23 14:15     |
| CAL 4                | SLD0127-CAL5  | XDT_m2230407-010 | NA     | 04/07/23 14:20     |
| CAL 5                | SLD0127-CAL6  | XDT_m2230407-011 | NA     | 04/07/23 14:27     |
| RINSE                | SLD0127-IBL1  | XDT_m2230407-012 | NA     | 04/07/23 14:35     |
| Initial Cal Check    | SLD0127-ICV1  | XDT_m2230407-014 | NA     | 04/07/23 14:43     |
| Initial Cal Blank    | SLD0127-ICB1  | XDT_m2230407-015 | NA     | 04/07/23 14:51     |
| Calibration Check    | SLD0127-CCV1  | XDT_m2230407-016 | NA     | 04/07/23 14:56     |
| Calibration Blank    | SLD0127-CCB1  | XDT_m2230407-017 | NA     | 04/07/23 15:05     |
| Instrument RL Check  | SLD0127-CRL1  | XDT_m2230407-018 | NA     | 04/07/23 15:11     |
| Interference Check A | SLD0127-IFA1  | XDT_m2230407-019 | NA     | 04/07/23 15:19     |
| Interference Check B | SLD0127-IFB1  | XDT_m2230407-020 | NA     | 04/07/23 15:24     |
| LR200                | SLD0127-HCV1  | XDT_m2230407-021 | NA     | 04/07/23 15:28     |
| LR300                | SLD0127-HCV2  | XDT_m2230407-022 | NA     | 04/07/23 15:33     |
| Instrument Blank     | SLD0127-IBL2  | XDT_m2230407-023 | NA     | 04/07/23 15:41     |
| Instrument Blank     | SLD0127-IBL3  | XDT_m2230407-024 | NA     | 04/07/23 15:47     |
| Calibration Check    | SLD0127-CCV2  | XDT_m2230407-025 | NA     | 04/07/23 15:52     |
| Calibration Blank    | SLD0127-CCB2  | XDT_m2230407-026 | NA     | 04/07/23 16:00     |
| Calibration Check    | SLD0127-CCV3  | XDT_m2230407-028 | NA     | 04/07/23 16:14     |
| Calibration Blank    | SLD0127-CCB3  | XDT_m2230407-029 | NA     | 04/07/23 16:21     |
| ZZZZZ                | BLD0180-BLK1  | XDT_m2230407-030 | Water  | 04/07/23 16:27     |
| ZZZZZ                | BLD0180-BS1   | XDT_m2230407-031 | Water  | 04/07/23 16:32     |
| Instrument Blank     | SLD0127-IBL4  | XDT_m2230407-039 | NA     | 04/07/23 17:25     |
| Calibration Check    | SLD0127-CCV4  | XDT_m2230407-040 | NA     | 04/07/23 17:30     |
| Calibration Blank    | SLD0127-CCB4  | XDT_m2230407-041 | NA     | 04/07/23 17:38     |
| Blank                | BLD0055-BLK1  | XDT_m2230407-042 | Solid  | 04/07/23 17:46     |
| LCS                  | BLD0055-BS1   | XDT_m2230407-043 | Solid  | 04/07/23 17:51     |



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name       | Lab Sample ID | Lab File ID      | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| ZZZZZ             | BLD0123-BLK1  | XDT_m2230407-044 | Solid  | 04/07/23 17:55     |
| ZZZZZ             | BLD0123-BS1   | XDT_m2230407-045 | Solid  | 04/07/23 18:00     |
| LDW23-SS1277      | 23A0179-01    | XDT_m2230407-046 | Solid  | 04/07/23 18:05     |
| LDW23-SS1277      | 23A0179-01    | XDT_m2230407-046 | Solid  | 04/07/23 18:05     |
| LDW23-SS1277      | 23A0179-01    | XDT_m2230407-046 | Solid  | 04/07/23 18:05     |
| LDW23-SS1277      | 23A0179-01    | XDT_m2230407-046 | Solid  | 04/07/23 18:05     |
| LDW23-SS1277      | BLD0055-DUP1  | XDT_m2230407-047 | Solid  | 04/07/23 18:10     |
| LDW23-SS1277      | BLD0055-DUP1  | XDT_m2230407-047 | Solid  | 04/07/23 18:10     |
| LDW23-SS1277      | BLD0055-DUP1  | XDT_m2230407-047 | Solid  | 04/07/23 18:10     |
| LDW23-SS1277      | BLD0055-DUP1  | XDT_m2230407-047 | Solid  | 04/07/23 18:10     |
| LDW23-SS1277      | BLD0055-DUP1  | XDT_m2230407-047 | Solid  | 04/07/23 18:10     |
| LDW23-SS1277      | BLD0055-DUP1  | XDT_m2230407-047 | Solid  | 04/07/23 18:10     |
| LDW23-SS1277      | BLD0055-DUP1  | XDT_m2230407-047 | Solid  | 04/07/23 18:10     |
| LDW23-SS1277      | BLD0055-DUP1  | XDT_m2230407-047 | Solid  | 04/07/23 18:10     |
| LDW23-SS1277      | BLD0055-MS1   | XDT_m2230407-048 | Solid  | 04/07/23 18:14     |
| LDW23-SS1277      | BLD0055-MS1   | XDT_m2230407-048 | Solid  | 04/07/23 18:14     |
| LDW23-SS1277      | BLD0055-MS1   | XDT_m2230407-048 | Solid  | 04/07/23 18:14     |
| LDW23-SS1277      | BLD0055-MS1   | XDT_m2230407-048 | Solid  | 04/07/23 18:14     |
| LDW23-SS1277      | BLD0055-MS1   | XDT_m2230407-048 | Solid  | 04/07/23 18:14     |
| LDW23-SS1277      | BLD0055-MS1   | XDT_m2230407-048 | Solid  | 04/07/23 18:14     |
| LDW23-SS1277      | BLD0055-MS1   | XDT_m2230407-048 | Solid  | 04/07/23 18:14     |
| LDW23-SS1277      | BLD0055-MS1   | XDT_m2230407-048 | Solid  | 04/07/23 18:14     |
| LDW23-SS1277      | BLD0055-MSD1  | XDT_m2230407-049 | Solid  | 04/07/23 18:19     |
| LDW23-SS1277      | BLD0055-MSD1  | XDT_m2230407-049 | Solid  | 04/07/23 18:19     |
| LDW23-SS1277      | BLD0055-MSD1  | XDT_m2230407-049 | Solid  | 04/07/23 18:19     |
| LDW23-SS1277      | BLD0055-MSD1  | XDT_m2230407-049 | Solid  | 04/07/23 18:19     |
| LDW23-SS1277      | BLD0055-MSD1  | XDT_m2230407-049 | Solid  | 04/07/23 18:19     |
| LDW23-SS1277      | BLD0055-MSD1  | XDT_m2230407-049 | Solid  | 04/07/23 18:19     |
| LDW23-SS1277      | BLD0055-MSD1  | XDT_m2230407-049 | Solid  | 04/07/23 18:19     |
| Instrument Blank  | SLD0127-IBL5  | XDT_m2230407-051 | NA     | 04/07/23 18:28     |
| Calibration Check | SLD0127-CCV5  | XDT_m2230407-052 | NA     | 04/07/23 18:33     |



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name       | Lab Sample ID | Lab File ID      | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| Calibration Blank | SLD0127-CCB5  | XDT_m2230407-053 | NA     | 04/07/23 18:41     |
| ZZZZZ             | 23A0158-14    | XDT_m2230407-054 | Solid  | 04/07/23 18:48     |
| ZZZZZ             | 23A0158-14    | XDT_m2230407-054 | Solid  | 04/07/23 18:48     |
| ZZZZZ             | 23A0158-14    | XDT_m2230407-054 | Solid  | 04/07/23 18:48     |
| ZZZZZ             | 23A0158-14    | XDT_m2230407-054 | Solid  | 04/07/23 18:48     |
| ZZZZZ             | 23A0158-15    | XDT_m2230407-055 | Solid  | 04/07/23 18:52     |
| ZZZZZ             | 23A0158-15    | XDT_m2230407-055 | Solid  | 04/07/23 18:52     |
| ZZZZZ             | 23A0158-15    | XDT_m2230407-055 | Solid  | 04/07/23 18:52     |
| ZZZZZ             | 23A0158-15    | XDT_m2230407-055 | Solid  | 04/07/23 18:52     |
| ZZZZZ             | 23A0158-16    | XDT_m2230407-056 | Solid  | 04/07/23 18:57     |
| ZZZZZ             | 23A0158-16    | XDT_m2230407-056 | Solid  | 04/07/23 18:57     |
| ZZZZZ             | 23A0158-16    | XDT_m2230407-056 | Solid  | 04/07/23 18:57     |
| ZZZZZ             | 23A0158-16    | XDT_m2230407-056 | Solid  | 04/07/23 18:57     |
| ZZZZZ             | 23A0206-02    | XDT_m2230407-057 | Solid  | 04/07/23 19:02     |
| ZZZZZ             | 23A0206-02    | XDT_m2230407-057 | Solid  | 04/07/23 19:02     |
| ZZZZZ             | 23A0206-02    | XDT_m2230407-057 | Solid  | 04/07/23 19:02     |
| ZZZZZ             | 23A0206-02    | XDT_m2230407-057 | Solid  | 04/07/23 19:02     |
| ZZZZZ             | 23A0206-01    | XDT_m2230407-058 | Solid  | 04/07/23 19:07     |
| ZZZZZ             | 23A0206-01    | XDT_m2230407-058 | Solid  | 04/07/23 19:07     |
| ZZZZZ             | 23A0206-01    | XDT_m2230407-058 | Solid  | 04/07/23 19:07     |
| ZZZZZ             | 23A0206-01    | XDT_m2230407-058 | Solid  | 04/07/23 19:07     |
| ZZZZZ             | BLD0123-DUP1  | XDT_m2230407-059 | Solid  | 04/07/23 19:11     |
| ZZZZZ             | BLD0123-MS1   | XDT_m2230407-060 | Solid  | 04/07/23 19:16     |
| ZZZZZ             | BLD0123-MSD1  | XDT_m2230407-061 | Solid  | 04/07/23 19:21     |
| Instrument Blank  | SLD0127-IBL6  | XDT_m2230407-063 | NA     | 04/07/23 19:30     |
| Calibration Check | SLD0127-CCV6  | XDT_m2230407-064 | NA     | 04/07/23 19:35     |
| Calibration Blank | SLD0127-CCB6  | XDT_m2230407-065 | NA     | 04/07/23 19:42     |
| LDW23-SS1271      | 23A0179-02    | XDT_m2230407-066 | Solid  | 04/07/23 19:47     |
| LDW23-SS1271      | 23A0179-02    | XDT_m2230407-066 | Solid  | 04/07/23 19:47     |



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name  | Lab Sample ID | Lab File ID      | Matrix | Analysis Date/Time |
|--------------|---------------|------------------|--------|--------------------|
| LDW23-SS1271 | 23A0179-02    | XDT_m2230407-066 | Solid  | 04/07/23 19:47     |
| LDW23-SS1271 | 23A0179-02    | XDT_m2230407-066 | Solid  | 04/07/23 19:47     |
| LDW23-SS1266 | 23A0179-03    | XDT_m2230407-067 | Solid  | 04/07/23 19:52     |
| LDW23-SS1266 | 23A0179-03    | XDT_m2230407-067 | Solid  | 04/07/23 19:52     |
| LDW23-SS1266 | 23A0179-03    | XDT_m2230407-067 | Solid  | 04/07/23 19:52     |
| LDW23-SS1266 | 23A0179-03    | XDT_m2230407-067 | Solid  | 04/07/23 19:52     |
| LDW23-SS1248 | 23A0179-04    | XDT_m2230407-068 | Solid  | 04/07/23 19:57     |
| LDW23-SS1248 | 23A0179-04    | XDT_m2230407-068 | Solid  | 04/07/23 19:57     |
| LDW23-SS1248 | 23A0179-04    | XDT_m2230407-068 | Solid  | 04/07/23 19:57     |
| LDW23-SS1248 | 23A0179-04    | XDT_m2230407-068 | Solid  | 04/07/23 19:57     |
| LDW23-SS1239 | 23A0179-05    | XDT_m2230407-069 | Solid  | 04/07/23 20:01     |
| LDW23-SS1239 | 23A0179-05    | XDT_m2230407-069 | Solid  | 04/07/23 20:01     |
| LDW23-SS1239 | 23A0179-05    | XDT_m2230407-069 | Solid  | 04/07/23 20:01     |
| LDW23-SS1239 | 23A0179-05    | XDT_m2230407-069 | Solid  | 04/07/23 20:01     |
| LDW23-SS1213 | 23A0179-06    | XDT_m2230407-070 | Solid  | 04/07/23 20:06     |
| LDW23-SS1213 | 23A0179-06    | XDT_m2230407-070 | Solid  | 04/07/23 20:06     |
| LDW23-SS1213 | 23A0179-06    | XDT_m2230407-070 | Solid  | 04/07/23 20:06     |
| LDW23-SS1213 | 23A0179-06    | XDT_m2230407-070 | Solid  | 04/07/23 20:06     |
| LDW23-SS1200 | 23A0179-07    | XDT_m2230407-071 | Solid  | 04/07/23 20:11     |
| LDW23-SS1200 | 23A0179-07    | XDT_m2230407-071 | Solid  | 04/07/23 20:11     |
| LDW23-SS1200 | 23A0179-07    | XDT_m2230407-071 | Solid  | 04/07/23 20:11     |
| LDW23-SS1200 | 23A0179-07    | XDT_m2230407-071 | Solid  | 04/07/23 20:11     |
| LDW23-SS1178 | 23A0179-08    | XDT_m2230407-072 | Solid  | 04/07/23 20:16     |
| LDW23-SS1178 | 23A0179-08    | XDT_m2230407-072 | Solid  | 04/07/23 20:16     |
| LDW23-SS1178 | 23A0179-08    | XDT_m2230407-072 | Solid  | 04/07/23 20:16     |
| LDW23-SS1178 | 23A0179-08    | XDT_m2230407-072 | Solid  | 04/07/23 20:16     |
| LDW23-SS1171 | 23A0179-09    | XDT_m2230407-073 | Solid  | 04/07/23 20:20     |
| LDW23-SS1171 | 23A0179-09    | XDT_m2230407-073 | Solid  | 04/07/23 20:20     |
| LDW23-SS1171 | 23A0179-09    | XDT_m2230407-073 | Solid  | 04/07/23 20:20     |



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name       | Lab Sample ID | Lab File ID      | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| LDW23-SS1171      | 23A0179-09    | XDT_m2230407-073 | Solid  | 04/07/23 20:20     |
| LDW23-SS1112      | 23A0179-10    | XDT_m2230407-074 | Solid  | 04/07/23 20:25     |
| LDW23-SS1112      | 23A0179-10    | XDT_m2230407-074 | Solid  | 04/07/23 20:25     |
| LDW23-SS1112      | 23A0179-10    | XDT_m2230407-074 | Solid  | 04/07/23 20:25     |
| LDW23-SS1112      | 23A0179-10    | XDT_m2230407-074 | Solid  | 04/07/23 20:25     |
| Instrument Blank  | SLD0127-IBL7  | XDT_m2230407-075 | NA     | 04/07/23 20:30     |
| Calibration Check | SLD0127-CCV7  | XDT_m2230407-076 | NA     | 04/07/23 20:34     |
| Calibration Blank | SLD0127-CCB7  | XDT_m2230407-077 | NA     | 04/07/23 20:42     |
| LDW23-SS1039      | 23A0179-11    | XDT_m2230407-078 | Solid  | 04/07/23 20:47     |
| LDW23-SS1039      | 23A0179-11    | XDT_m2230407-078 | Solid  | 04/07/23 20:47     |
| LDW23-SS1039      | 23A0179-11    | XDT_m2230407-078 | Solid  | 04/07/23 20:47     |
| LDW23-SS1039      | 23A0179-11    | XDT_m2230407-078 | Solid  | 04/07/23 20:47     |
| LDW23-SS1007      | 23A0179-12    | XDT_m2230407-079 | Solid  | 04/07/23 20:51     |
| LDW23-SS1007      | 23A0179-12    | XDT_m2230407-079 | Solid  | 04/07/23 20:51     |
| LDW23-SS1007      | 23A0179-12    | XDT_m2230407-079 | Solid  | 04/07/23 20:51     |
| LDW23-SS1007      | 23A0179-12    | XDT_m2230407-079 | Solid  | 04/07/23 20:51     |
| ZZZZZ             | 23A0180-01    | XDT_m2230407-080 | Solid  | 04/07/23 20:56     |
| ZZZZZ             | 23A0180-01    | XDT_m2230407-080 | Solid  | 04/07/23 20:56     |
| ZZZZZ             | 23A0180-01    | XDT_m2230407-080 | Solid  | 04/07/23 20:56     |
| ZZZZZ             | 23A0180-01    | XDT_m2230407-080 | Solid  | 04/07/23 20:56     |
| ZZZZZ             | 23A0180-02    | XDT_m2230407-081 | Solid  | 04/07/23 21:01     |
| ZZZZZ             | 23A0180-02    | XDT_m2230407-081 | Solid  | 04/07/23 21:01     |
| ZZZZZ             | 23A0180-02    | XDT_m2230407-081 | Solid  | 04/07/23 21:01     |
| ZZZZZ             | 23A0180-02    | XDT_m2230407-081 | Solid  | 04/07/23 21:01     |
| ZZZZZ             | 23A0180-03    | XDT_m2230407-082 | Solid  | 04/07/23 21:06     |
| ZZZZZ             | 23A0180-03    | XDT_m2230407-082 | Solid  | 04/07/23 21:06     |
| ZZZZZ             | 23A0180-03    | XDT_m2230407-082 | Solid  | 04/07/23 21:06     |
| ZZZZZ             | 23A0180-03    | XDT_m2230407-082 | Solid  | 04/07/23 21:06     |
| ZZZZZ             | 23A0180-04    | XDT_m2230407-083 | Solid  | 04/07/23 21:10     |



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 6020B UCT-KED

|             |                                  |              |                        |
|-------------|----------------------------------|--------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG:         | <u>23A0179</u>         |
| Client:     | <u>Anchor QEA, LLC</u>           | Project:     | <u>AOC5 MR Phase 1</u> |
| Sequence:   | <u>SLD0127</u>                   | Instrument:  | <u>ICPMS2</u>          |
|             |                                  | Calibration: | <u>GD00024</u>         |

| Sample Name       | Lab Sample ID | Lab File ID      | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| ZZZZZ             | 23A0180-04    | XDT_m2230407-083 | Solid  | 04/07/23 21:10     |
| ZZZZZ             | 23A0180-04    | XDT_m2230407-083 | Solid  | 04/07/23 21:10     |
| ZZZZZ             | 23A0180-04    | XDT_m2230407-083 | Solid  | 04/07/23 21:10     |
| ZZZZZ             | 23A0206-03    | XDT_m2230407-084 | Solid  | 04/07/23 21:15     |
| ZZZZZ             | 23A0206-03    | XDT_m2230407-084 | Solid  | 04/07/23 21:15     |
| ZZZZZ             | 23A0206-03    | XDT_m2230407-084 | Solid  | 04/07/23 21:15     |
| ZZZZZ             | 23A0206-03    | XDT_m2230407-084 | Solid  | 04/07/23 21:15     |
| ZZZZZ             | 23A0206-03    | XDT_m2230407-084 | Solid  | 04/07/23 21:15     |
| ZZZZZ             | 23A0206-04    | XDT_m2230407-085 | Solid  | 04/07/23 21:20     |
| ZZZZZ             | 23A0206-04    | XDT_m2230407-085 | Solid  | 04/07/23 21:20     |
| ZZZZZ             | 23A0206-04    | XDT_m2230407-085 | Solid  | 04/07/23 21:20     |
| ZZZZZ             | 23A0206-04    | XDT_m2230407-085 | Solid  | 04/07/23 21:20     |
| ZZZZZ             | 23A0206-04    | XDT_m2230407-085 | Solid  | 04/07/23 21:20     |
| ZZZZZ             | 23A0206-05    | XDT_m2230407-086 | Solid  | 04/07/23 21:25     |
| ZZZZZ             | 23A0206-05    | XDT_m2230407-086 | Solid  | 04/07/23 21:25     |
| ZZZZZ             | 23A0206-05    | XDT_m2230407-086 | Solid  | 04/07/23 21:25     |
| ZZZZZ             | 23A0206-05    | XDT_m2230407-086 | Solid  | 04/07/23 21:25     |
| ZZZZZ             | 23A0206-05    | XDT_m2230407-086 | Solid  | 04/07/23 21:25     |
| Instrument Blank  | SLD0127-IBL8  | XDT_m2230407-087 | NA     | 04/07/23 21:29     |
| Calibration Check | SLD0127-CCV8  | XDT_m2230407-088 | NA     | 04/07/23 21:34     |
| Calibration Blank | SLD0127-CCB8  | XDT_m2230407-089 | NA     | 04/07/23 21:42     |
| ZZZZZ             | 23A0206-06    | XDT_m2230407-090 | Solid  | 04/07/23 21:46     |
| ZZZZZ             | 23A0206-06    | XDT_m2230407-090 | Solid  | 04/07/23 21:46     |
| ZZZZZ             | 23A0206-06    | XDT_m2230407-090 | Solid  | 04/07/23 21:46     |
| ZZZZZ             | 23A0206-06    | XDT_m2230407-090 | Solid  | 04/07/23 21:46     |
| ZZZZZ             | 23A0206-07    | XDT_m2230407-091 | Solid  | 04/07/23 21:51     |
| ZZZZZ             | 23A0206-07    | XDT_m2230407-091 | Solid  | 04/07/23 21:51     |
| ZZZZZ             | 23A0206-07    | XDT_m2230407-091 | Solid  | 04/07/23 21:51     |
| ZZZZZ             | 23A0206-07    | XDT_m2230407-091 | Solid  | 04/07/23 21:51     |
| ZZZZZ             | 23A0206-08    | XDT_m2230407-092 | Solid  | 04/07/23 21:56     |
| ZZZZZ             | 23A0206-08    | XDT_m2230407-092 | Solid  | 04/07/23 21:56     |
| ZZZZZ             | 23A0206-08    | XDT_m2230407-092 | Solid  | 04/07/23 21:56     |



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name       | Lab Sample ID | Lab File ID      | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| ZZZZZ             | 23A0206-08    | XDT_m2230407-092 | Solid  | 04/07/23 21:56     |
| ZZZZZ             | 23A0206-09    | XDT_m2230407-093 | Solid  | 04/07/23 22:00     |
| ZZZZZ             | 23A0206-09    | XDT_m2230407-093 | Solid  | 04/07/23 22:00     |
| ZZZZZ             | 23A0206-09    | XDT_m2230407-093 | Solid  | 04/07/23 22:00     |
| ZZZZZ             | 23A0206-09    | XDT_m2230407-093 | Solid  | 04/07/23 22:00     |
| ZZZZZ             | 23A0206-10    | XDT_m2230407-094 | Solid  | 04/07/23 22:05     |
| ZZZZZ             | 23A0206-10    | XDT_m2230407-094 | Solid  | 04/07/23 22:05     |
| ZZZZZ             | 23A0206-10    | XDT_m2230407-094 | Solid  | 04/07/23 22:05     |
| ZZZZZ             | 23A0206-11    | XDT_m2230407-095 | Solid  | 04/07/23 22:10     |
| ZZZZZ             | 23A0206-11    | XDT_m2230407-095 | Solid  | 04/07/23 22:10     |
| ZZZZZ             | 23A0206-11    | XDT_m2230407-095 | Solid  | 04/07/23 22:10     |
| ZZZZZ             | 23A0206-11    | XDT_m2230407-095 | Solid  | 04/07/23 22:10     |
| ZZZZZ             | 23A0206-12    | XDT_m2230407-096 | Solid  | 04/07/23 22:15     |
| ZZZZZ             | 23A0206-12    | XDT_m2230407-096 | Solid  | 04/07/23 22:15     |
| ZZZZZ             | 23A0206-12    | XDT_m2230407-096 | Solid  | 04/07/23 22:15     |
| ZZZZZ             | 23A0206-12    | XDT_m2230407-096 | Solid  | 04/07/23 22:15     |
| ZZZZZ             | 23A0206-13    | XDT_m2230407-097 | Solid  | 04/07/23 22:19     |
| ZZZZZ             | 23A0206-13    | XDT_m2230407-097 | Solid  | 04/07/23 22:19     |
| ZZZZZ             | 23A0206-13    | XDT_m2230407-097 | Solid  | 04/07/23 22:19     |
| ZZZZZ             | 23A0206-14    | XDT_m2230407-098 | Solid  | 04/07/23 22:24     |
| ZZZZZ             | 23A0206-14    | XDT_m2230407-098 | Solid  | 04/07/23 22:24     |
| ZZZZZ             | 23A0206-14    | XDT_m2230407-098 | Solid  | 04/07/23 22:24     |
| ZZZZZ             | 23A0206-14    | XDT_m2230407-098 | Solid  | 04/07/23 22:24     |
| Instrument Blank  | SLD0127-IBL9  | XDT_m2230407-099 | NA     | 04/07/23 22:29     |
| Calibration Check | SLD0127-CCV9  | XDT_m2230407-100 | NA     | 04/07/23 22:34     |
| Calibration Blank | SLD0127-CCB9  | XDT_m2230407-101 | NA     | 04/07/23 22:41     |
| Instrument Blank  | SLD0127-IBLA  | XDT_m2230407-111 | NA     | 04/07/23 23:28     |
| Calibration Check | SLD0127-CCVA  | XDT_m2230407-112 | NA     | 04/07/23 23:33     |
| Calibration Blank | SLD0127-CCBA  | XDT_m2230407-113 | NA     | 04/07/23 23:41     |



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name       | Lab Sample ID | Lab File ID      | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| Calibration Check | SLD0127-CCVB  | XDT_m2230407-115 | NA     | 04/07/23 23:50     |
| Calibration Blank | SLD0127-CCBB  | XDT_m2230407-116 | NA     | 04/07/23 23:58     |
| Instrument Blank  | SLD0127-IBLC  | XDT_m2230407-126 | NA     | 04/08/23 00:45     |
| Calibration Check | SLD0127-CCVC  | XDT_m2230407-127 | NA     | 04/08/23 00:50     |
| Calibration Blank | SLD0127-CCBC  | XDT_m2230407-128 | NA     | 04/08/23 00:57     |
| Instrument Blank  | SLD0127-IBLD  | XDT_m2230407-138 | NA     | 04/08/23 01:46     |
| Calibration Check | SLD0127-CCVD  | XDT_m2230407-139 | NA     | 04/08/23 01:50     |
| Calibration Blank | SLD0127-CCBD  | XDT_m2230407-140 | NA     | 04/08/23 01:58     |
| Instrument Blank  | SLD0127-IBLE  | XDT_m2230407-150 | NA     | 04/08/23 02:48     |
| Calibration Check | SLD0127-CCVE  | XDT_m2230407-151 | NA     | 04/08/23 02:53     |
| Calibration Blank | SLD0127-CCBE  | XDT_m2230407-152 | NA     | 04/08/23 03:00     |
| Instrument Blank  | SLD0127-IBLF  | XDT_m2230407-162 | NA     | 04/08/23 03:48     |
| Calibration Check | SLD0127-CCVF  | XDT_m2230407-163 | NA     | 04/08/23 03:53     |
| Calibration Blank | SLD0127-CCBF  | XDT_m2230407-164 | NA     | 04/08/23 04:00     |
| Calibration Check | SLD0127-CCVG  | XDT_m2230407-166 | NA     | 04/08/23 04:10     |
| Calibration Blank | SLD0127-CCBG  | XDT_m2230407-167 | NA     | 04/08/23 04:17     |
| Instrument Blank  | SLD0127-IBLH  | XDT_m2230407-177 | NA     | 04/08/23 05:05     |
| Calibration Check | SLD0127-CCVH  | XDT_m2230407-178 | NA     | 04/08/23 05:10     |
| Calibration Blank | SLD0127-CCBH  | XDT_m2230407-179 | NA     | 04/08/23 05:18     |
| Instrument Blank  | SLD0127-IBLI  | XDT_m2230407-189 | NA     | 04/08/23 06:05     |
| Calibration Check | SLD0127-CCVI  | XDT_m2230407-190 | NA     | 04/08/23 06:10     |
| Calibration Blank | SLD0127-CCBI  | XDT_m2230407-191 | NA     | 04/08/23 06:17     |
| Instrument Blank  | SLD0127-IBLJ  | XDT_m2230407-201 | NA     | 04/08/23 07:08     |
| Calibration Check | SLD0127-CCVJ  | XDT_m2230407-202 | NA     | 04/08/23 07:13     |
| Calibration Blank | SLD0127-CCBJ  | XDT_m2230407-203 | NA     | 04/08/23 07:20     |





**ICP INTERFERENCE CHECK SAMPLE**  
**EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Standard ID: L003578

| Lab Sample ID | Analyte     | True | Found  | %R | Units |
|---------------|-------------|------|--------|----|-------|
| SLD0127-IFA1  | Arsenic-75a | 0    | 0.0250 |    | ug/L  |
|               | Cadmium-111 | 0    | 0.0610 |    | ug/L  |
|               | Cadmium-114 | 0    | 0.0530 |    | ug/L  |
|               | Copper-63   | 0    | 0.0630 |    | ug/L  |
|               | Copper-65   | 0    | 0.0620 |    | ug/L  |
|               | Zinc-66     | 0    | 0.2430 |    | ug/L  |
|               | Zinc-67     | 0    | 0.2000 |    | ug/L  |

\* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.



**ICP INTERFERENCE CHECK SAMPLE**  
**EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Standard ID: L003578

| Lab Sample ID | Analyte     | True   | Found  | %R   | Units |
|---------------|-------------|--------|--------|------|-------|
| SLD0127-IFB1  | Arsenic-75a | 20.000 | 18.948 | 94.7 | ug/L  |
|               | Cadmium-111 | 20.000 | 19.241 | 96.2 | ug/L  |
|               | Cadmium-114 | 20.000 | 18.956 | 94.8 | ug/L  |
|               | Copper-63   | 20.000 | 19.582 | 97.9 | ug/L  |
|               | Copper-65   | 20.000 | 19.715 | 98.6 | ug/L  |
|               | Zinc-66     | 20.000 | 18.334 | 91.7 | ug/L  |
|               | Zinc-67     | 20.000 | 16.308 | 81.5 | ug/L  |

\* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.



**DETECTION LEVEL STANDARD**  
**EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Lab Sample ID: SLD0127-CRL1

| Analyte     | True    | Found | %R   | Units | QC Limits |
|-------------|---------|-------|------|-------|-----------|
| Arsenic-75a | 0.20000 | 0.219 | 110  | ug/L  | 50 - 150  |
| Cadmium-111 | 0.10000 | 0.113 | 113  | ug/L  | 50 - 150  |
| Cadmium-114 | 0.10000 | 0.112 | 112  | ug/L  | 50 - 150  |
| Copper-63   | 0.50000 | 0.503 | 101  | ug/L  | 50 - 150  |
| Copper-65   | 0.50000 | 0.538 | 108  | ug/L  | 50 - 150  |
| Zinc-66     | 6.0000  | 6.13  | 102  | ug/L  | 50 - 150  |
| Zinc-67     | 6.0000  | 5.58  | 93.1 | ug/L  | 50 - 150  |

\* Values outside of QC limits



**HIGH-CONCENTRATION  
CALIBRATION VERIFICATION  
EPA 6020B UCT-KED**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GD00024

**Laboratory ID:** SLD0127-HCV1

**Sequence:** SLD0127

**Standard ID:** L003671

| <b>ANALYTE</b> | <b>EXPECTED<br/>(ug/L)</b> | <b>FOUND<br/>(ug/L)</b> | <b>% DRIFT</b> | <b>QC LIMIT</b> |
|----------------|----------------------------|-------------------------|----------------|-----------------|
| Arsenic-75a    | 200.00                     | 199                     | -0.6           | 10.00           |
| Cadmium-111    | 200.00                     | 191                     | -4.6           | 10.00           |
| Cadmium-114    | 200.00                     | 191                     | -4.3           | 10.00           |
| Copper-63      | 200.00                     | 191                     | -4.4           | 10.00           |
| Copper-65      | 200.00                     | 195                     | -2.6           | 10.00           |
| Zinc-66        | 200.00                     | 193                     | -3.5           | 10.00           |
| Zinc-67        | 200.00                     | 191                     | -4.3           | 10.00           |

\* Values outside of QC limits



## HIGH-CONCENTRATION CALIBRATION VERIFICATION

### EPA 6020B UCT-KED

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Calibration:** GD00024

**Laboratory ID:** SLD0127-HCV2

**Sequence:** SLD0127

**Standard ID:** L003672

| ANALYTE     | EXPECTED<br>(ug/L) | FOUND<br>(ug/L) | % DRIFT | QC LIMIT |
|-------------|--------------------|-----------------|---------|----------|
| Arsenic-75a | 300.00             | 301             | 0.4     | 10.00    |
| Cadmium-111 | 300.00             | 285             | -4.9    | 10.00    |
| Cadmium-114 | 300.00             | 282             | -5.9    | 10.00    |
| Copper-63   | 300.00             | 289             | -3.8    | 10.00    |
| Copper-65   | 300.00             | 287             | -4.5    | 10.00    |
| Zinc-66     | 300.00             | 282             | -6.2    | 10.00    |
| Zinc-67     | 300.00             | 282             | -6.1    | 10.00    |

\* Values outside of QC limits



## HOLDING TIME SUMMARY

**Analysis: EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

| Sample Name                      | Date Collected    | Date Received     | Date Prepared     | Days to Prep | Max Days to Prep | Date Analyzed     | Days to Analysis | Max Days to Analysis | Q |
|----------------------------------|-------------------|-------------------|-------------------|--------------|------------------|-------------------|------------------|----------------------|---|
| LDW23-SS1277<br>23A0179-01       | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>18:05 | 87               | 180                  |   |
| LDW23-SS1271<br>23A0179-02       | 01/10/23<br>08:43 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>19:47 | 87               | 180                  |   |
| LDW23-SS1266<br>23A0179-03       | 01/10/23<br>09:04 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>19:52 | 87               | 180                  |   |
| LDW23-SS1248<br>23A0179-04       | 01/10/23<br>09:20 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>19:57 | 87               | 180                  |   |
| LDW23-SS1239<br>23A0179-05       | 01/10/23<br>09:35 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>20:01 | 87               | 180                  |   |
| LDW23-SS1213<br>23A0179-06       | 01/10/23<br>09:54 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>20:06 | 87               | 180                  |   |
| LDW23-SS1200<br>23A0179-07       | 01/10/23<br>10:10 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>20:11 | 87               | 180                  |   |
| LDW23-SS1178<br>23A0179-08       | 01/10/23<br>10:56 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>20:16 | 87               | 180                  |   |
| LDW23-SS1171<br>23A0179-09       | 01/10/23<br>11:08 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>20:20 | 87               | 180                  |   |
| LDW23-SS1112<br>23A0179-10       | 01/10/23<br>11:28 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>20:25 | 87               | 180                  |   |
| LDW23-SS1039<br>23A0179-11       | 01/10/23<br>11:56 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>20:47 | 87               | 180                  |   |
| LDW23-SS1007<br>23A0179-12       | 01/10/23<br>12:48 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>20:51 | 87               | 180                  |   |
| Duplicate<br>BLD0055-DUP1        | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>18:10 | 87               | 180                  |   |
| Matrix Spike<br>BLD0055-MS1      | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>18:14 | 87               | 180                  |   |
| Matrix Spike Dup<br>BLD0055-MSD1 | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 04/06/23<br>15:35 | 86           | 180              | 04/07/23<br>18:19 | 87               | 180                  |   |

\* Indicates hold time exceedance.



**METHOD DETECTION  
AND REPORTING LIMITS**  
**EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Instrument: ICPMS2

| <b>Analyte</b> | <b>MDL</b> | <b>RL</b> | <b>Units</b> |
|----------------|------------|-----------|--------------|
| Arsenic-75a    | 0.04       | 0.20      | mg/kg        |
| Cadmium-111    | 0.03       | 0.10      | mg/kg        |
| Cadmium-114    | 0.04       | 0.10      | mg/kg        |
| Copper-63      | 0.17       | 0.50      | mg/kg        |
| Copper-65      | 0.35       | 0.50      | mg/kg        |
| Zinc-66        | 2.9        | 6.0       | mg/kg        |
| Zinc-67        | 0.9        | 6.0       | mg/kg        |

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
 Catalog Number: CGCU10  
 Lot Number: P2-CU682108  
 Matrix: 3% (v/v) HNO<sub>3</sub>  
 Value / Analyte(s): 10 000 µg/mL ea:  
                                   Copper  
 Starting Material: Cu Metal  
 Starting Material Lot#: 2095  
 Starting Material Purity: 99.9996%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10013 ± 30 µg/mL  
**Density:** 1.032 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |   |
|------------------------|---|
| <b>Assay Method #1</b> | <b>9977 ± 50 µg/mL</b><br>ICP Assay NIST SRM 3114 Lot Number: 121207    |
| <b>Assay Method #2</b> | <b>10024 ± 26 µg/mL</b><br>EDTA NIST SRM 928 Lot Number: 928            |
| <b>Assay Method #3</b> | <b>10007 ± 46 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.



### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.007542 | M Eu < 0.000942 | O Na < 0.001434 | M Se < 0.016971 | M Zn < 0.005657 |
| O Al < 0.000609 | O Fe < 0.008700 | M Nb < 0.000942 | O Si < 0.003052 | M Zr < 0.000942 |
| M As < 0.010371 | M Ga < 0.000942 | M Nd < 0.000942 | M Sm < 0.000942 |                 |
| M Au < 0.001885 | M Gd < 0.000942 | M Ni < 0.003781 | M Sn < 0.005657 |                 |
| O B < 0.003663  | M Ge < 0.005657 | M Os < 0.000942 | M Sr < 0.000942 |                 |
| M Ba < 0.004253 | M Hf < 0.000942 | O P < 0.031668  | M Ta < 0.000942 |                 |
| M Be < 0.000942 | O Hg < 0.007064 | M Pb < 0.005789 | M Tb < 0.000942 |                 |
| M Bi < 0.000942 | M Ho < 0.000942 | M Pd < 0.000942 | M Te < 0.004714 |                 |
| O Ca < 0.002304 | M In < 0.000942 | M Pr < 0.000942 | M Th < 0.000942 |                 |
| M Cd < 0.000942 | M Ir < 0.000942 | M Pt < 0.000942 | O Ti < 0.002801 |                 |
| M Ce < 0.000942 | O K < 0.000763  | M Rb < 0.000942 | M Tl < 0.000942 |                 |
| M Co < 0.001890 | M La < 0.000942 | M Re < 0.000942 | M Tm < 0.000942 |                 |
| M Cr < 0.005657 | O Li < 0.000243 | i Rh <          | M U < 0.000942  |                 |
| M Cs < 0.000942 | M Lu < 0.000942 | M Ru < 0.039588 | M V < 0.003771  |                 |
| s Cu <          | O Mg < 0.000320 | O S < 0.007174  | M W < 0.005657  |                 |
| M Dy < 0.000942 | O Mn < 0.000793 | M Sb < 0.001885 | M Y < 0.000942  |                 |
| M Er < 0.000942 | M Mo < 0.005657 | M Sc < 0.000942 | M Yb < 0.000942 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 63.55 +2 6 Cu(H<sub>2</sub>O)<sub>6</sub><sup>2+</sup>

**Chemical Compatibility** -Stable in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, HF, H<sub>3</sub>PO<sub>4</sub>. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO<sub>3</sub> / LDPE container.

**Cu Containing Samples (Preparation and Solution)** -Metal (soluble in HNO<sub>3</sub> ); Oxides ( Soluble in HCl ); Ores ( Dissolve in HCl / HNO<sub>3</sub>).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.  | Order | Interferences (underlined indicates severe)                 |
|--------------------|-----------------|-------|---|
| ICP-MS 63 amu      | 10 ppt          | n/a   | 40Ar23Na 47Ti16O,<br>14N12C37Cl,<br>16O12C35Cl,<br>23Na40Ca |
| ICP-OES 219.958 nm | 0.01/.002 µg/mL | 1     | Th, Ta, Nb, U, Hf   |
| ICP-OES 224.700 nm | 0.01/.001 µg/mL | 1     | Pb, Ir, Ni, W   |
| ICP-OES 324.754 nm | 0.06/.001 µg/mL |       | Nb, U, Th, Mo, Hf   |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

August 24, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **August 24, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
CEO, Senior Technical Director



300 Technology Drive  
Christiansburg, VA 24073 USA  
inorganicventures.com

P: 800-669-6799/540-585-3030  
F: 540-585-3012  
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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGPB10  
Lot Number: S2-PB713228  
Matrix: 0.5% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Lead  
Starting Material: Lead Nitrate  
Starting Material Lot#: 2343  
Starting Material Purity: 99.9995%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10042 ± 31 µg/mL  
**Density:** 1.015 g/mL (measured at 20 ± 4 °C)

### Assay Information:

**Assay Method #1**      **10024 ± 41 µg/mL**  
ICP Assay NIST SRM 3128 Lot Number: 101026

**Assay Method #2**      **10054 ± 32 µg/mL**  
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3  $\mu\text{m}$ .

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000310 | M Eu < 0.000310 | M Na < 0.001470 | M Se < 0.009100 | O Zn < 0.006155 |
| O Al < 0.017098 | O Fe < 0.002496 | M Nb < 0.000310 | O Si < 0.003761 | O Zr < 0.001700 |
| M As < 0.003100 | M Ga < 0.000310 | M Nd < 0.000310 | M Sm < 0.000310 |                 |
| M Au < 0.000910 | M Gd < 0.000310 | O Ni < 0.001709 | M Sn < 0.001300 |                 |
| O B < 0.005600  | M Ge < 0.002200 | M Os < 0.000310 | O Sr < 0.000444 |                 |
| O Ba < 0.007865 | M Hf < 0.000310 | O P < 0.038000  | M Ta < 0.000310 |                 |
| O Be < 0.000320 | M Hg < 0.002200 | s Pb < 0.000610 | M Tb < 0.000610 |                 |
| M Bi < 0.028000 | M Ho < 0.000310 | M Pd < 0.000610 | M Te < 0.000310 |                 |
| O Ca < 0.019834 | M In < 0.000310 | M Pr < 0.000310 | M Th < 0.000310 |                 |
| O Cd < 0.000630 | M Ir < 0.000310 | M Pt < 0.000910 | O Ti < 0.005129 |                 |
| M Ce < 0.004787 | O K < 0.008207  | M Rb < 0.006700 | M Tl < 0.016000 |                 |
| M Co < 0.000610 | M La < 0.001900 | M Re < 0.000310 | M Tm < 0.000310 |                 |
| O Cr < 0.001500 | O Li < 0.000110 | O Rh < 0.007700 | M U < 0.000310  |                 |
| M Cs < 0.006100 | M Lu < 0.000310 | M Ru < 0.001300 | M V < 0.001600  |                 |
| M Cu < 0.001600 | O Mg < 0.003317 | O S < 0.052000  | M W < 0.000910  |                 |
| M Dy < 0.000310 | O Mn < 0.001600 | O Sb < 0.015000 | M Y < 0.000310  |                 |
| M Er < 0.000310 | M Mo < 0.000610 | O Sc < 0.000630 | M Yb < 0.000310 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 207.20 +2 6 Pb(H<sub>2</sub>O)<sub>6</sub>+2

**Chemical Compatibility** - Soluble in HCl, HF and HNO<sub>3</sub>. Avoid H<sub>2</sub>SO<sub>4</sub>. Stable with most metals and inorganic anions forming insoluble carbonate, borate, sulfate, sulfite, sulfide, phosphate, oxalate, chromate, tannate, iodate, and cyanide in neutral aqueous media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO<sub>3</sub> / LDPE container.

**Pb Containing Samples (Preparation and Solution)** -Metal (Best dissolved in 1:1 H<sub>2</sub>O / HNO<sub>3</sub> ); Oxides (The many different Pb oxides are soluble in HNO<sub>3</sub> with the exception of PbO<sub>2</sub> which is soluble in HCl or HF); Ores and Alloys (Best attacked using 1:1 H<sub>2</sub>O / HNO<sub>3</sub> ); Organic Matrices (Dry ash and dissolve in dilute HCl).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences</b> (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 208 amu        | 5 ppt                 | n/a          | 192Pt16O,<br>192Os16O                              |
| ICP-OES 168.215 nm    | 0.03 / 0.003 µg/mL    | 1            | Co   |
| ICP-OES 217.000 nm    | 0.09 / 0.03 µg/mL     | 1            | W, Ir, Hf, Sb, Th                                  |
| ICP-OES 220.353 nm    | 0.04 / 0.006 µg/mL    | 1            | Bi, Nb   |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

January 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **January 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

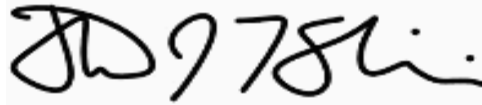
- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Thomas Kozikowski  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGZN10  
Lot Number: S2-ZN711249  
Matrix: 2% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Zinc  
Starting Material: Zinc Metal  
Starting Material Lot#: 2349  
Starting Material Purity: 99.9988%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 9992 ± 30 µg/mL  
**Density:** 1.029 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |   |
|------------------------|---|
| <b>Assay Method #1</b> | <b>9981 ± 56 µg/mL</b><br>ICP Assay NIST SRM 3168a Lot Number: 120629   |
| <b>Assay Method #2</b> | <b>9987 ± 32 µg/mL</b><br>EDTA NIST SRM 928 Lot Number: 928             |
| <b>Assay Method #3</b> | <b>10002 ± 32 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .



### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3  $\mu\text{m}$ .

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.002000 | M Eu < 0.000500 | O Na < 0.008713 | M Se < 0.048000 | s Zn <          |
| O Al < 0.011000 | O Fe < 0.015467 | M Nb < 0.000500 | O Si < 0.007842 | M Zr < 0.000500 |
| O As < 0.012000 | M Ga < 0.004900 | M Nd < 0.000500 | M Sm < 0.000500 |                 |
| M Au < 0.006500 | M Gd < 0.000500 | O Ni < 0.003049 | M Sn < 0.002614 |                 |
| O B < 0.019000  | M Ge < 0.009100 | M Os < 0.000500 | M Sr < 0.000500 |                 |
| M Ba < 0.000500 | M Hf < 0.000500 | O P < 0.059000  | M Ta < 0.000500 |                 |
| O Be < 0.000230 | O Hg < 0.003800 | M Pb < 0.016774 | M Tb < 0.000500 |                 |
| M Bi < 0.002400 | M Ho < 0.000500 | M Pd < 0.001000 | M Te < 0.017000 |                 |
| O Ca < 0.052283 | M In < 0.003500 | M Pr < 0.000500 | M Th < 0.000500 |                 |
| O Cd < 0.000588 | M Ir < 0.001000 | M Pt < 0.000500 | M Ti < 0.002000 |                 |
| M Ce < 0.000500 | O K < 0.017209  | M Rb < 0.002500 | M Tl < 0.000500 |                 |
| M Co < 0.000653 | M La < 0.000500 | M Re < 0.000500 | M Tm < 0.000500 |                 |
| O Cr < 0.001089 | O Li < 0.000230 | M Rh < 0.000500 | M U < 0.000500  |                 |
| M Cs < 0.000500 | M Lu < 0.000500 | M Ru < 0.005000 | M V < 0.000500  |                 |
| O Cu < 0.001938 | O Mg < 0.000871 | O S < 0.048000  | M W < 0.001000  |                 |
| M Dy < 0.000500 | O Mn < 0.000172 | M Sb < 0.004300 | M Y < 0.000500  |                 |
| M Er < 0.000500 | M Mo < 0.001500 | O Sc < 0.000900 | M Yb < 0.000500 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 65.39 +2 4 Zn(OH)(aq)1+

**Chemical Compatibility** -Stable in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, HF, H<sub>3</sub>PO<sub>4</sub>. Avoid basic media forming insoluble carbonate and hydroxide. Stable with most metals and inorganic anions in acidic media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO<sub>3</sub> / LDPE container.

**Zn Containing Samples (Preparation and Solution)** -Metal (soluble in HNO<sub>3</sub>); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO<sub>3</sub>); Organic based (dry ash at 4500C and dissolve ash in HCl) (sulfuric/peroxide acid digestion)

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.     | Order | Interferences (underlined indicates severe)  |
|--------------------|--------------------|-------|--|
| ICP-MS 66 amu      | 7 ppt              | N/A   | 50Ti16O,50Cr16O,<br>50V16O, 34S16O2,<br>32S16O18O,<br>32S17O2,<br>33S16O17O,<br>32S34S, 33S2 |
| ICP-OES 202.548 nm | 0.004/0.0002 µg/mL | 1     | Nb, Cu, Co, Hf   |
| ICP-OES 206.200 nm | 0.006/0.0006 µg/mL | 1     | Sb, Ta, Bi, Os   |
| ICP-OES 213.856 nm | 0.002/0.0004 µg/mL | 1     | Ni, Cu, V  |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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**11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY**

**11.1 Certification Issue Date**

November 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **November 22, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**


- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Thomas Kozikowski  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGSE10  
Lot Number: S2-SE711004  
Matrix: 3% (v/v) HNO3  
Value / Analyte(s): 10 000 µg/mL ea:  
Selenium  
Starting Material: Se Metal  
Starting Material Lot#: 1962  
Starting Material Purity: 99.9991%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 9955 ± 61 µg/mL  
**Density:** 1.035 g/mL (measured at 20 ± 4 °C)

### Assay Information:

**Assay Method #1**      **9955 ± 50 µg/mL**  
ICP Assay NIST SRM 3149 Lot Number: 100901

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

#### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$   
 $w_i$  = the weighting factors for each method calculated using the inverse square of the variance:  
 $w_i = (1/u_{char\ i}^2) / (\sum(1/(u_{char\ i}^2)))$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2  
 $u_{char}$  =  $[\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method  
 $u_{bb}$  = bottle to bottle homogeneity standard uncertainty  
 $u_{Its}$  = long term stability standard uncertainty (storage)  
 $u_{ts}$  = transport stability standard uncertainty

#### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a)(u_{char\ a})$$

$X_a$  = mean of Assay Method A with  
 $u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2  
 $u_{char\ a}$  = the errors from characterization  
 $u_{bb}$  = bottle to bottle homogeneity standard uncertainty  
 $u_{Its}$  = long term stability standard uncertainty (storage)  
 $u_{ts}$  = transport stability standard uncertainty

#### 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

##### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

##### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

##### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

#### 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|        |          |        |          |          |          |          |          |          |        |          |          |
|--------|----------|--------|----------|----------|----------|----------|----------|----------|--------|----------|----------|
| M Ag < | 0.002242 | M      | Eu <     | 0.000373 | O Na     | 0.013654 | s        | Se <     |        | O Zn     | 0.002374 |
| M Al   | 0.004450 | M      | Fe       | 0.008478 | O Nb <   | 0.002975 | O Si     | 0.006249 | M Zr < | 0.001868 |          |
| O As < | 0.022040 | M      | Ga <     | 0.000373 | M Nd <   | 0.000373 | M Sm <   | 0.000373 |        |          |          |
| M Au < | 0.000373 | M      | Gd <     | 0.000373 | O Ni     | 0.001843 | M Sn     | 0.000847 |        |          |          |
| O B <  | 0.007714 | M      | Ge <     | 0.002616 | M Os <   | 0.000373 | M Sr <   | 0.001121 |        |          |          |
| M Ba < | 0.001495 | M      | Hf <     | 0.000373 | O P <    | 0.022040 | M Ta <   | 0.000373 |        |          |          |
| M Be < | 0.001495 | M      | Hg <     | 0.002240 | M Pb     | 0.006358 | M Tb <   | 0.006353 |        |          |          |
| M Bi < | 0.000373 | M      | Ho <     | 0.000373 | M Pd <   | 0.000373 | M Te <   | 0.012707 |        |          |          |
| O Ca   | 0.006530 | M      | In <     | 0.000373 | M Pr <   | 0.001495 | M Th <   | 0.002990 |        |          |          |
| M Cd   | 0.001165 | M      | Ir <     | 0.000373 | M Pt <   | 0.000373 | M Ti <   | 0.003363 |        |          |          |
| M Ce < | 0.000373 | O K    | 0.001999 | M Rb <   | 0.001868 | M Tl     | 0.008584 |          |        |          |          |
| M Co < | 0.000373 | M La < | 0.001121 | M Re <   | 0.000373 | M Tm <   | 0.000373 |          |        |          |          |
| M Cr   | 0.002861 | O Li   | 0.000062 | M Rh <   | 0.000373 | M U <    | 0.000373 |          |        |          |          |
| M Cs < | 0.001121 | M Lu < | 0.000373 | M Ru <   | 0.001493 | M V <    | 0.000747 |          |        |          |          |
| M Cu < | 0.000747 | O Mg   | 0.001156 | O S      | 0.024591 | M W <    | 0.002242 |          |        |          |          |
| M Dy < | 0.000373 | M Mn < | 0.000373 | M Sb <   | 0.002242 | M Y <    | 0.000373 |          |        |          |          |
| M Er < | 0.000373 | O Mo < | 0.003195 | M Sc <   | 0.001121 | M Yb <   | 0.000373 |          |        |          |          |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

#### 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

#### 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

##### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 78.96 +4 6 H<sub>2</sub>SeO<sub>3</sub>

**Chemical Compatibility** -Soluble in HCl, HNO<sub>3</sub>,H<sub>3</sub>PO<sub>4</sub>, H<sub>2</sub>SO<sub>4</sub> and HF aqueous matrices and water. It is stable with most inorganic anions but many cationic metals form the insoluble selenites under pH neutral conditions. When fluorinated and/or under acidic conditions precipitation is typically not a problem at moderate to low concentrations.

**Stability** - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO<sub>3</sub> / LDPE container.

**Se Containing Samples (Preparation and Solution)** -Metal (soluble in HNO<sub>3</sub>); Oxides ( readily soluble in water); Minerals and alloys (acid digestion with HNO<sub>3</sub>or HNO<sub>3</sub> / HF ); Organic Matrices (acid digestion with hot concentrated H<sub>2</sub>SO<sub>4</sub> accompanied by the careful dropwise addition of H<sub>2</sub>O<sub>2</sub> until clear).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.   | Order | Interferences (underlined indicates severe) |
|--------------------|------------------|-------|---|
| ICP-MS 82 amu      | 200 ppt          | N/A   | 12C35Cl2                                    |
| ICP-OES 196.026 nm | 0.08/0.006 µg/mL | 1     | Fe  |
| ICP-OES 203.985 nm | 0.2/0.05 µg/mL   | 1     | Sb, Ir, Cr, Ta                              |
| ICP-OES 206.279 nm | 0.3/0.16 µg/mL   | 1     | Cr, Pt                                      |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

November 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **November 17, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Prepared By:**

Uyen Truong  
Supervisor, Product Documentation



**Certificate Approved By:**

Michael Booth  
Director, Technical



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



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info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGMO10  
Lot Number: S2-MO706255  
Matrix: H2O  
tr. NH4OH  
Value / Analyte(s): 10 000 µg/mL ea:  
Molybdenum  
Starting Material: Ammonium Molybdate  
Starting Material Lot#: 2361  
Starting Material Purity: 99.9893%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10026 ± 47 µg/mL  
**Density:** 1.011 g/mL (measured at 20 ± 4 °C)

### Assay Information:

**Assay Method #1**      **10032 ± 68 µg/mL**  
ICP Assay NIST SRM 3134 Lot Number: 130418

**Assay Method #2**      **10020 ± 65 µg/mL**  
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .



### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method i with standard uncertainty  $u_{char i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i})^2]^{1/2}$  where  $u_{char i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

$X_a$  = mean of Assay Method A with

$u_{char a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000590 | M Eu < 0.000300 | M Na < 0.008739 | M Se < 0.008000 | M Zn < 0.005942 |
| M Al < 0.005592 | M Fe < 0.006500 | M Nb < 0.029000 | i Si < 0.001800 | M Zr < 0.001800 |
| M As < 0.002100 | M Ga < 0.000300 | i Nd < 0.000300 | M Sm < 0.000300 |                 |
| M Au < 0.000300 | M Gd < 0.000300 | M Ni < 0.008000 | M Sn < 0.008900 |                 |
| M B < 0.003300  | M Ge < 0.000300 | M Os < 0.000590 | M Sr < 0.001747 |                 |
| M Ba < 0.016778 | M Hf < 0.001800 | i P < 0.004200  | M Ta < 0.004200 |                 |
| M Be < 0.000890 | M Hg < 0.003300 | M Pb < 0.000300 | M Tb < 0.000300 |                 |
| M Bi < 0.000890 | M Ho < 0.000300 | M Pd < 0.001800 | M Te < 0.021000 |                 |
| O Ca < 0.062920 | M In < 0.032000 | M Pr < 0.013000 | M Th < 0.000300 |                 |
| O Cd < 0.026000 | M Ir < 0.000300 | M Pt < 0.000300 | O Ti < 0.032000 |                 |
| M Ce < 0.008300 | M K < 1.293372  | M Rb < 0.045442 | M Tl < 0.012584 |                 |
| M Co < 0.005942 | M La < 0.000300 | M Re < 0.000300 | M Tm < 0.000300 |                 |
| M Cr < 0.005243 | O Li < 0.000594 | M Rh < 0.000300 | M U < 0.005300  |                 |
| M Cs < 0.005243 | M Lu < 0.000300 | M Ru < 0.079000 | M V < 0.000890  |                 |
| M Cu < 0.022371 | M Mg < 0.005592 | i S < 0.873900  | M W < 0.873900  |                 |
| M Dy < 0.000300 | M Mn < 0.005900 | M Sb < 0.015031 | M Y < 0.000300  |                 |
| M Er < 0.000300 | s Mo < 0.001200 | M Sc < 0.001200 | M Yb < 0.000300 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 95.94 +6 6,7,8,9

[MoO4]-2(chemical form as received)

**Chemical Compatibility** -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

**Stability** - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

**Mo Containing Samples (Preparation and Solution)** -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl ).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.       | Order | Interferences (underlined indicates severe) |
|--------------------|----------------------|-------|---|
| ICP-MS 95 amu      | 3 ppt                | n/a   | 40Ar39K16O,79Br1<br>60,190Os2+,190Pt<br>2+  |
| ICP-OES 202.030 nm | 0.008 / 0.0002 µg/mL | 1     | Os, Hf                                      |
| ICP-OES 203.844 nm | 0.012 / 0.002 µg/mL  | 1     |   |
| ICP-OES 204.598 nm | 0.012 / 0.001 µg/mL  | 1     | Ir, Ta                                      |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

**11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY**

**11.1 Certification Issue Date**

July 04, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **July 04, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Director, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGTL10  
Lot Number: T2-TL714687  
Matrix: 5% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Thallium  
Starting Material: TINO<sub>3</sub>  
Starting Material Lot#: 2118  
Starting Material Purity: 99.9998%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10030 ± 42 µg/mL  
**Density:** 1.036 g/mL (measured at 20 ± 4 °C)

### Assay Information:

**Assay Method #1**      **10040 ± 43 µg/mL**  
ICP Assay NIST SRM 3158 Lot Number: 151215

**Assay Method #2**      **10010 ± 65 µg/mL**  
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3  $\mu\text{m}$ .

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000200 | M Eu < 0.000200 | O Na < 0.002489 | M Se < 0.011019 | O Zn < 0.002298 |
| O Al < 0.004184 | O Fe < 0.002824 | M Nb < 0.000200 | O Si < 0.003760 | M Zr < 0.000200 |
| M As < 0.002003 | M Ga < 0.000200 | M Nd < 0.000200 | M Sm < 0.000200 |                 |
| O Au < 0.002824 | M Gd < 0.000200 | M Ni < 0.001724 | M Sn < 0.000601 |                 |
| O B < 0.004184  | M Ge < 0.000801 | M Os < 0.000198 | O Sr < 0.000313 |                 |
| M Ba < 0.000400 | M Hf < 0.000200 | O P < 0.010460  | M Ta < 0.000200 |                 |
| O Be < 0.000104 | M Hg < 0.000794 | M Pb < 0.000811 | M Tb < 0.000200 |                 |
| M Bi < 0.005209 | M Ho < 0.000200 | M Pd < 0.000400 | M Te < 0.005008 |                 |
| O Ca < 0.002436 | M In < 0.000200 | M Pr < 0.000200 | M Th < 0.000200 |                 |
| M Cd < 0.001318 | M Ir < 0.000198 | M Pt < 0.000801 | O Ti < 0.001255 |                 |
| M Ce < 0.000200 | O K < 0.006175  | M Rb < 0.000200 | s Tl <          |                 |
| M Co < 0.000601 | M La < 0.000200 | M Re < 0.000200 | M Tm < 0.000200 |                 |
| M Cr < 0.000801 | O Li < 0.000177 | M Rh < 0.000200 | M U < 0.000200  |                 |
| M Cs < 0.003606 | M Lu < 0.000200 | M Ru < 0.000397 | M V < 0.002203  |                 |
| M Cu < 0.001001 | O Mg < 0.000529 | O S < 0.015690  | M W < 0.000601  |                 |
| M Dy < 0.000200 | M Mn < 0.000801 | M Sb < 0.000400 | M Y < 0.000200  |                 |
| M Er < 0.000200 | M Mo < 0.001202 | O Sc < 0.000711 | M Yb < 0.000200 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 204.38 +1 6 Ti(H<sub>2</sub>O)<sub>6</sub><sup>+</sup>  
**Chemical Compatibility** - Soluble in HCl, HNO<sub>3</sub>, and H<sub>2</sub>SO<sub>4</sub>. Stable with most metals and inorganic anions. The sulfite, thiocyanate and oxalate are moderately soluble; the phosphate and arsenite are slightly soluble and the sulfide is insoluble.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO<sub>3</sub> / LDPE container.

**Ti Containing Samples )Preparation and Solution)** -Metal (Best dissolved in HNO<sub>3</sub> which forms chiefly the Ti<sup>+</sup> ion.); Oxide (The thalious oxide is readily soluble in water. The thallic oxide requires high levels of acid); Ores (Carbonate fusion in Pt<sub>0</sub> followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in HCl).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences</b> (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 205 amu        | 2 ppt                 | N/A          | 189Os16O   |
| ICP-OES 190.864 nm    | 0.04 / 0.004 µg/mL    | 1            | V, Ti  |
| ICP-OES 276.787 nm    | 0.1 / 0.01 µg/mL      | 1            | Ta, V, Fe, Cr                                      |
| ICP-OES 351.924 nm    | 0.2 / 0.02 µg/mL      | 1            | Th, Ce, Zr   |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

February 08, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **February 08, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Thomas Kozikowski  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



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Christiansburg, VA 24073 USA  
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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGCD10  
Lot Number: S2-CD710508  
Matrix: 3% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Cadmium  
Starting Material: Cd Metal  
Starting Material Lot#: 1953  
Starting Material Purity: 99.9995%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10008 ± 30 µg/mL  
**Density:** 1.029 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |   |
|------------------------|---|
| <b>Assay Method #1</b> | <b>10010 ± 32 µg/mL</b><br>EDTA NIST SRM 928 Lot Number: 928            |
| <b>Assay Method #2</b> | <b>10011 ± 30 µg/mL</b><br>ICP Assay NIST SRM 3108 Lot Number: 130116   |
| <b>Assay Method #3</b> | <b>10003 ± 30 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .



### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$  where  $u_{char i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

$X_a$  = mean of Assay Method A with

$u_{char a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3  $\mu\text{m}$ .

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| O Ag < 0.003200 | O Eu < 0.002500 | O Na < 0.005499 | M Se < 0.005700 | O Zn < 0.001100 |
| O Al < 0.008903 | O Fe < 0.000602 | M Nb < 0.000400 | O Si < 0.016758 | O Zr < 0.002600 |
| M As < 0.003600 | M Ga < 0.001200 | M Nd < 0.000800 | M Sm < 0.000400 |                 |
| M Au < 0.000810 | M Gd < 0.000400 | M Ni < 0.003600 | M Sn < 0.003200 |                 |
| O B < 0.004189  | O Ge < 0.012000 | M Os < 0.000810 | O Sr < 0.000330 |                 |
| M Ba < 0.002400 | M Hf < 0.000400 | O P < 0.022000  | M Ta < 0.000800 |                 |
| M Be < 0.000400 | M Hg < 0.001700 | M Pb < 0.002400 | M Tb < 0.000400 |                 |
| M Bi < 0.000400 | M Ho < 0.000400 | M Pd < 0.001200 | M Te < 0.008000 |                 |
| O Ca < 0.011259 | O In < 0.013000 | M Pr < 0.000400 | M Th < 0.000400 |                 |
| s Cd < 0.000400 | M Ir < 0.000410 | M Pt < 0.000400 | O Ti < 0.000602 |                 |
| M Ce < 0.000400 | O K < 0.005237  | M Rb < 0.004400 | M Tl < 0.000523 |                 |
| M Co < 0.000400 | M La < 0.000400 | M Re < 0.000400 | M Tm < 0.000400 |                 |
| O Cr < 0.005100 | O Li < 0.000054 | M Rh < 0.000400 | M U < 0.000400  |                 |
| M Cs < 0.002400 | M Lu < 0.000400 | M Ru < 0.002500 | M V < 0.002000  |                 |
| O Cu < 0.004800 | O Mg < 0.000288 | O S < 0.022000  | M W < 0.000400  |                 |
| M Dy < 0.000400 | O Mn < 0.000860 | O Sb < 0.018000 | M Y < 0.000400  |                 |
| M Er < 0.000400 | M Mo < 0.001600 | O Sc < 0.000430 | M Yb < 0.000400 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 112.41 +2 4 Cd<sub>2</sub>(OH)(aq)<sub>3+</sub> and Cd(OH)(aq)

**Chemical Compatibility** -Stable in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, and HF. Avoid basic media forming insoluble carbonate and hydroxide.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO<sub>3</sub> / LDPE container.

**Cd Containing Samples (Preparation and Solution)** -Metal (soluble in HNO<sub>3</sub>); Oxides (soluble in HCl or HNO<sub>3</sub>); Ores (dissolve in HCl /HNO<sub>3</sub> then take to fumes with H<sub>2</sub>SO<sub>4</sub>. The silica and lead sulfate are filtered off after the addition of water); Organic based (dry ash at 450°C and dissolve ash in HCl), (sulfuric / peroxide acid digestion).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.       | Order | Interferences (underlined indicates severe) |
|--------------------|----------------------|-------|---|
| ICP-MS 111 amu     | 11 ppt               | n/a   | 95Mo16O                                     |
| ICP-OES 214.438 nm | 0.003 / 0.0003 µg/mL | 1     | Pt, Ir                                      |
| ICP-OES 226.502 nm | 0.003 / 0.0003 µg/mL | 1     | Ir  |
| ICP-OES 228.802 nm | 0.003 / 0.0003 µg/mL | 1     | Co, Ir, As, Pt                              |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

November 01, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **November 01, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Director, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGMN10  
Lot Number: S2-MN704240  
Matrix: 3% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Manganese  
Starting Material: Mn Metal  
Starting Material Lot#: 2275  
Starting Material Purity: 99.9909%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10011 ± 30 µg/mL  
**Density:** 1.035 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |   |
|------------------------|---|
| <b>Assay Method #1</b> | <b>9989 ± 69 µg/mL</b><br>ICP Assay NIST SRM 3132 Lot Number: 050429    |
| <b>Assay Method #2</b> | <b>10011 ± 25 µg/mL</b><br>EDTA NIST SRM 928 Lot Number: 928            |
| <b>Assay Method #3</b> | <b>10024 ± 47 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method i with standard uncertainty  $u_{char i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$  where  $u_{char i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

$X_a$  = mean of Assay Method A with

$u_{char a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.001500 | M Eu < 0.000730 | O Na 0.176097   | M Se < 0.006600 | M Zn 0.009925   |
| O Al 0.004322   | M Fe < 0.650000 | M Nb < 0.000730 | O Si 0.097654   | M Zr < 0.000730 |
| M As < 0.008000 | M Ga 0.004322   | M Nd < 0.001500 | M Sm < 0.000730 |                 |
| M Au < 0.000730 | M Gd < 0.000730 | M Ni 0.024013   | M Sn < 0.002200 |                 |
| M B 0.068838    | M Ge < 0.004400 | M Os < 0.000730 | O Sr 0.000928   |                 |
| M Ba < 0.001500 | M Hf < 0.000730 | i P <           | M Ta < 0.000730 |                 |
| M Be < 0.000730 | M Hg < 0.002200 | M Pb 0.007364   | M Tb < 0.000730 |                 |
| M Bi < 0.003000 | M Ho < 0.000730 | M Pd < 0.000730 | M Te < 0.019000 |                 |
| O Ca 0.062434   | M In < 0.003000 | M Pr < 0.000730 | M Th < 0.000730 |                 |
| M Cd < 0.001500 | M Ir < 0.000730 | M Pt < 0.000730 | O Ti < 0.006500 |                 |
| M Ce < 0.007300 | O K 0.006403    | M Rb < 0.006600 | M Tl < 0.000730 |                 |
| O Co 0.014728   | M La < 0.003000 | M Re < 0.000730 | M Tm < 0.000730 |                 |
| O Cr 0.272151   | O Li 0.000416   | M Rh < 0.003000 | M U < 0.001500  |                 |
| M Cs < 0.000730 | M Lu < 0.000730 | M Ru < 0.004400 | M V < 0.000730  |                 |
| O Cu 0.007684   | O Mg 0.320177   | i S <           | M W < 0.004400  |                 |
| M Dy < 0.001500 | s Mn <          | M Sb < 0.021000 | O Y 0.001360    |                 |
| M Er < 0.001500 | M Mo 0.010245   | O Sc < 0.004100 | M Yb < 0.000730 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 54.94 +2 6 Mn(H<sub>2</sub>O)<sub>6</sub>2+

**Chemical Compatibility** -Stable in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, HF, H<sub>3</sub>PO<sub>4</sub>. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO<sub>3</sub>/LDPE container.

**Mn Containing Samples (Preparation and Solution)** -Metal (Soluble in dilute acids ); Oxides (Soluble in dilute acids); Ores (Dissolve with HCl. If silica is present add HF and then fume off silica by adding H<sub>2</sub>SO<sub>4</sub> and heat to SO<sub>3</sub> fumes - dense white fumes).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.         | Order | Interferences (underlined indicates severe)  |
|--------------------|------------------------|-------|--|
| ICP-MS 55 amu      | 10 ppt                 | n/a   | 40Ar14N1H,39K16<br>O,37Cl18O,40Ar15<br>N,38Ar17O,36Ar18O<br>1H<br>,38Ar16O1H,37Cl17<br>O1H,23Na32S |
| ICP-OES 257.610 nm | 0.0014 / 0.00002 µg/mL | 1     | Ce, W, Re  |
| ICP-OES 259.373 nm | 0.0016 / 0.00002 µg/mL | 1     | U, Ta, Mo, Fe, Nb  |
| ICP-OES 260.569 nm | 0.0021 / 0.00002 µg/mL | 1     | Co   |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

**11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY**

**11.1 Certification Issue Date**

April 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **April 17, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Director, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



**1.0 ACCREDITATION / REGISTRATION**

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



**2.0 PRODUCT DESCRIPTION**

Product Code: Single Analyte Custom Grade Solution  
 Catalog Number: CGSB10  
 Lot Number: R2-SB688559  
 Matrix: 3% (v/v) HNO3  
 3% (w/v) tartaric acid  
 Value / Analyte(s): 10 000 µg/mL ea:  
 Antimony  
 Starting Material: Antimony Metal  
 Starting Material Lot#: 1857  
 Starting Material Purity: 99.9894%

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Value:** 10003 ± 47 µg/mL  
**Density:** 1.061 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

**Assay Method #1 10003 ± 41 µg/mL**  
 ICP Assay NIST SRM 3102a Lot Number: 140911

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

**Characterization of CRM/RM by Two or More Methods**

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i) (X_i)$$

$X_i$  = mean of Assay Method i with standard uncertainty  $u_{char i}$   
 $w_i$  = the weighting factors for each method calculated using the inverse square of the variance:  
 $w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2  
 $u_{char} = [\sum((w_i)^2 (u_{char i})^2)]^{1/2}$  where  $u_{char i}$  are the errors from each characterization method  
 $u_{bb}$  = bottle to bottle homogeneity standard uncertainty  
 $u_{lts}$  = long term stability standard uncertainty (storage)  
 $u_{ts}$  = transport stability standard uncertainty

**Characterization of CRM/RM by One Method**

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

$X_a$  = mean of Assay Method A with  
 $u_{char a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2  
 $u_{char a}$  = the errors from characterization  
 $u_{bb}$  = bottle to bottle homogeneity standard uncertainty  
 $u_{lts}$  = long term stability standard uncertainty (storage)  
 $u_{ts}$  = transport stability standard uncertainty



#### 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

##### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

##### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

##### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

#### 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|        |          |        |          |        |          |        |          |        |          |
|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|
| M Ag < | 0.000200 | M Eu < | 0.000300 | O Na   | 0.140000 | M Se < | 0.007300 | O Zn   | 0.005000 |
| M Al   | 0.003200 | O Fe   | 0.060000 | M Nb < | 0.000100 | O Si   | 0.150000 | O Zr < | 0.006300 |
| M As < | 0.004400 | M Ga < | 0.000400 | M Nd < | 0.000100 | M Sm < | 0.000100 |        |          |
| M Au < | 0.000210 | M Gd < | 0.000100 | O Ni   | 0.004800 | M Sn < | 0.001800 |        |          |
| M B <  | 0.011000 | M Ge < | 0.000600 | M Os < | 0.000110 | O Sr   | 0.000750 |        |          |
| O Ba < | 0.004900 | M Hf < | 0.000100 | O P    | 0.540000 | M Ta   | 0.003300 |        |          |
| M Be < | 0.000400 | M Hg < | 0.000110 | M Pb < | 0.000400 | M Tb < | 0.000100 |        |          |
| M Bi < | 0.000200 | M Ho < | 0.000100 | M Pd < | 0.000210 | M Te < | 0.000600 |        |          |
| O Ca   | 0.110000 | M In < | 0.000100 | M Pr < | 0.001600 | M Th < | 0.000100 |        |          |
| M Cd < | 0.000200 | M Ir < | 0.000110 | M Pt < | 0.000600 | M Ti < | 0.002800 |        |          |
| M Ce   | 0.006500 | O K    | 0.020000 | M Rb < | 0.001000 | M Tl < | 0.000100 |        |          |
| M Co < | 0.000200 | O La < | 0.016000 | M Re < | 0.000100 | M Tm < | 0.000100 |        |          |
| M Cr   | 0.006900 | O Li < | 0.000430 | M Rh < | 0.000300 | M U <  | 0.000100 |        |          |
| M Cs < | 0.000200 | M Lu < | 0.000100 | M Ru < | 0.000310 | M V <  | 0.000800 |        |          |
| M Cu < | 0.000600 | O Mg   | 0.021000 | n S <  |          | M W <  | 0.000200 |        |          |
| M Dy < | 0.000100 | O Mn   | 0.001900 | s Sb < |          | M Y <  | 0.000100 |        |          |
| M Er < | 0.000100 | M Mo < | 0.000500 | O Sc < | 0.002300 | M Yb < | 0.000100 |        |          |

M - Checked by ICP-MS      O - Checked by ICP-OES      i - Spectral Interference  
n - Not Checked For      s - Solution Standard Element

#### 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

#### 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

##### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 121.75 +3 6 Sb(O)C4H4O6-1

**Chemical Compatibility** - Stable in conc. HCl, dilute or conc. HF. Stable in dilute HNO3 as the fluoride or tartrate complex. Avoid basic media. Stable with most metals and inorganic anions in acidic media as the tartrate provided the acidity is not too high or the acid is oxidizing causing loss of the stabilizing tartrate ion. The fluoride complex of antimony is stable in strong acid but you should only mix with other metals that are fluorinated.

**Stability** - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-2% HNO3 / LDPE container.

**Sb Containing Samples (Preparation and Solution)** - Metal and alloys (Soluble in H2O / HF / HNO3 mixture); Oxides ( Soluble in HCl and tartaric acid or H2O / HF / HNO3 mixtures); Ores (fusion with Na2CO3 in Pt0 followed by dissolving the fuseate in a H2O / HF / HNO3 mixture); Organic based (sulfuric acid / hydrogen peroxide digestion)

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences (underlined indicates severe)</b> |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 121 amu        | 5 ppt                 | N/A          | 105Pd16O,<br>89Y16O2                               |
| ICP-OES 206.833 nm    | 0.03/0.003 µg/mL      | 1            | Ta, Cr, Ge, Hf                                     |
| ICP-OES 217.581 nm    | 0.05/0.005 µg/mL      | 1            | Nb, W, Re, Fe                                      |
| ICP-OES 231.147 nm    | 0.06/0.006 µg/mL      | 1            | Ni, Co, Pt   |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

April 30, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **April 30, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
CEO, Senior Technical Director



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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGAS10  
Lot Number: T2-AS718260  
Matrix: 2% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Arsenic  
Starting Material: As Metal  
Starting Material Lot#: 2208  
Starting Material Purity: 99.9971%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10060 ± 40 µg/mL  
**Density:** 1.037 g/mL (measured at 20 ± 4 °C)

### Assay Information:

**Assay Method #1**      **10062 ± 46 µg/mL**  
ICP Assay NIST SRM 3103a Lot Number: 100818

**Assay Method #2**      **10055 ± 76 µg/mL**  
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method i with standard uncertainty  $u_{char i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$  where  $u_{char i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

$X_a$  = mean of Assay Method A with

$u_{char a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.003200 | M Eu < 0.000530 | O Na < 0.032544 | M Se < 0.006300 | O Zn < 0.001952 |
| M Al < 0.007593 | O Fe < 0.001475 | O Nb < 0.012000 | O Si < 0.238658 | O Zr < 0.004100 |
| s As < 0.000530 | M Ga < 0.000530 | M Nd < 0.000530 | M Sm < 0.000530 |                 |
| M Au < 0.003100 | M Gd < 0.000530 | M Ni < 0.002100 | M Sn < 0.000530 |                 |
| M B < 0.026035  | M Ge < 0.001600 | M Os < 0.000520 | M Sr < 0.000530 |                 |
| M Ba < 0.000530 | M Hf < 0.000530 | O P < 0.043000  | M Ta < 0.000530 |                 |
| O Be < 0.000360 | M Hg < 0.001600 | M Pb < 0.002100 | M Tb < 0.000530 |                 |
| M Bi < 0.000530 | M Ho < 0.000530 | M Pd < 0.001100 | M Te < 0.004700 |                 |
| O Ca < 0.004339 | M In < 0.023000 | M Pr < 0.005300 | M Th < 0.000530 |                 |
| M Cd < 0.001100 | M Ir < 0.000520 | M Pt < 0.000530 | O Ti < 0.002300 |                 |
| M Ce < 0.000530 | O K < 0.002061  | M Rb < 0.000530 | M Tl < 0.000530 |                 |
| M Co < 0.000530 | M La < 0.001100 | M Re < 0.000530 | M Tm < 0.000530 |                 |
| O Cr < 0.001800 | O Li < 0.000120 | M Rh < 0.000530 | M U < 0.000530  |                 |
| M Cs < 0.005300 | M Lu < 0.000530 | M Ru < 0.000520 | M V < 0.002700  |                 |
| M Cu < 0.001600 | O Mg < 0.000154 | O S < 0.028205  | M W < 0.012000  |                 |
| M Dy < 0.000530 | O Mn < 0.000154 | M Sb < 0.000530 | M Y < 0.000530  |                 |
| M Er < 0.000530 | M Mo < 0.000530 | O Sc < 0.001700 | M Yb < 0.000530 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 74.92 ; mix of +3 and +5 ; 6 ; H3AsO4 and HAsO2

**Chemical Compatibility** - Arsenic has no cationic chemistry. It is soluble in HCl, HNO3, H3PO4, H2SO4 and HF aqueous matrices water and NH4OH . It is stable with most inorganic anions (forms arsenate when boiled with chromate) but many cationic metals form the insoluble arsenates under pH neutral conditions. When fluorinated and / or under acidic conditions arsenate formation is typically not a problem at moderate to low concentrations.

**Stability** - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO3 / LDPE container.

**As Containing Samples (Preparation and Solution)** - Metal (soluble in 1:1 H2O / HNO3 ); Oxides (the oxide exists in crystalline and amorphous forms where the amorphous form is more water soluble. The oxides typically dissolve in dilute acidic solutions when boiled); Minerals (one gram of powdered sample is fused in a Ni crucible with 10 grams of a 1:1 mix of K2CO3 and KNO3 and the melt extracted with hot water); Organic Matrices (0.2 to 0.5 grams of sample are fused with 15 grams of a 1:1 Na2CO3 / Na2O2 mix in a Ni crucible. The fuseate is extracted with water and acidified with HNO3).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences</b> (underlined indicates severe)                        |
|-----------------------|-----------------------|--------------|---|
| ICP-MS 75 amu         | 20 ppt                | N/A          | 40Ar35Cl,<br>59Co16O,<br>36Ar38Ar1H,8Ar37C<br>I,Ar39K,<br>150Nd2+,150Sm2+ |
| ICP-OES 189.042 nm    | 0.05/0.005 µg/mL      | 1            | Cr  |
| ICP-OES 193.696 nm    | 0.1/0.01 µg/mL        | 1            | V, Ge   |
| ICP-OES 228.812 nm    | 0.1/0.01 µg/mL        | 1            | Cd, Pt, Ir, Co  |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

## 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

## 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

May 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

### 11.2 Lot Expiration Date

- **May 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

### Certificate Prepared By:

Uyen Truong  
Supervisor, Product Documentation



### Certificate Approved By:

Michael Booth  
Director, Technical



### Certifying Officer:

Paul Gaines  
Chairman / Senior Technical Director



**1.0 ACCREDITATION / REGISTRATION**

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



**2.0 PRODUCT DESCRIPTION**

Product Code: Single Analyte Custom Grade Solution  
 Catalog Number: CGBA10  
 Lot Number: R2-BA692576  
 Matrix: 2% (v/v) HNO3  
 Value / Analyte(s): 10 000 µg/mL ea:  
 Barium  
 Starting Material: Barium Nitrate  
 Starting Material Lot#: 1969  
 Starting Material Purity: 99.9982%

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Value:** 10022 ± 30 µg/mL  
**Density:** 1.025 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

|                        |  |
|------------------------|--|
| <b>Assay Method #1</b> | <b>10018 ± 50 µg/mL</b><br>ICP Assay NIST SRM 3104a Lot Number: 140909   |
| <b>Assay Method #2</b> | <b>10023 ± 31 µg/mL</b><br>Gravimetric NIST SRM Lot Number: See Sec. 4.2 |
| <b>Assay Method #3</b> | <b>10023 ± 30 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2  |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.



### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum((w_i)^2 (u_{char i})^2)]^{1/2}$  where  $u_{char i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

$X_a$  = mean of Assay Method A with

$u_{char a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an UPLA-Filtered Clean Room. An UPLA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000410 | O Eu < 0.005200 | O Na 0.004610   | M Se < 0.003700 | O Zn 0.000658   |
| M Al < 0.003100 | O Fe 0.015707   | M Nb < 0.000210 | O Si 0.005573   | M Zr < 0.001300 |
| M As < 0.001300 | M Ga < 0.000210 | M Nd < 0.000210 | O Sm < 0.021000 |                 |
| M Au < 0.001300 | M Gd < 0.000210 | M Ni < 0.000810 | M Sn < 0.000410 |                 |
| O B < 0.005200  | M Ge < 0.002500 | M Os < 0.000410 | O Sr 0.003850   |                 |
| s Ba <          | M Hf < 0.000810 | O P < 0.026000  | M Ta < 0.000410 |                 |
| O Be < 0.000320 | M Hg < 0.000210 | M Pb < 0.002300 | M Tb < 0.000210 |                 |
| M Bi < 0.000210 | M Ho < 0.000210 | M Pd < 0.000210 | M Te < 0.001900 |                 |
| O Ca 0.007093   | M In < 0.000210 | M Pr < 0.000210 | M Th < 0.000210 |                 |
| M Cd < 0.000210 | M Ir < 0.000210 | M Pt < 0.000210 | M Ti < 0.002100 |                 |
| M Ce < 0.001300 | O K 0.035467    | M Rb < 0.002100 | M Tl < 0.000210 |                 |
| M Co < 0.000410 | O La < 0.005200 | M Re < 0.000210 | M Tm < 0.000410 |                 |
| M Cr < 0.001700 | O Li < 0.000630 | M Rh < 0.000210 | M U < 0.000210  |                 |
| M Cs < 0.003300 | M Lu < 0.001700 | M Ru < 0.000210 | O V < 0.005200  |                 |
| M Cu < 0.001300 | O Mg 0.000861   | O S 0.268539    | M W < 0.000410  |                 |
| M Dy < 0.000210 | M Mn < 0.000410 | M Sb < 0.001300 | O Y < 0.005200  |                 |
| M Er < 0.001300 | M Mo < 0.000410 | M Sc < 0.000410 | M Yb < 0.001300 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 137.33 +2 6 Ba(H<sub>2</sub>O)<sub>6</sub>+2

**Chemical Compatibility** - Soluble in HCl, and HNO<sub>3</sub>. Avoid H<sub>2</sub>SO<sub>4</sub>, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, iodate, molybdate, sulfite and tungstate in neutral aqueous media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1 -10,000 ppm solutions chemically stable for years in 1-3.5% HNO<sub>3</sub> / LDPE container.

**Ba Containing Samples (Preparation and Solution)** -Metal(is best dissolved in diluted HNO<sub>3</sub> ); Ores( Carbonate fusion in Pt0 followed by HCl dissolution. If sulfate is present dissolve the fuseate using HCl / tartaric acid to prevent BaSO<sub>4</sub> precipitate ); Organic Matrices (dry ash and dissolve in dilute HCl.)

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences</b> (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 138 amu        | 1 ppt                 | N/A          | 122Sn16O,<br>122Te16O                              |
| ICP-OES 230.424 nm    | 0.004/0.0005 µg/mL    | 1            | Mo, Ir, Co   |
| ICP-OES 233.527 nm    | 0.004/0.0003 µg/mL    | 1            |  |
| ICP-OES 455.403 nm    | 0.002/0.0001 µg/mL    | 1            | Zr, U  |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

May 11, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **May 11, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
CEO, Senior Technical Director



## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGBE10  
Lot Number: R2-BE692992  
Matrix: 6% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Beryllium  
Starting Material: Beryllium Acetate  
Starting Material Lot#: 2281  
Starting Material Purity: 99.9998%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10032 ± 41 µg/mL  
**Density:** 1.128 g/mL (measured at 20 ± 4 °C)

### Assay Information:

**Assay Method #1**      **10042 ± 67 µg/mL**  
ICP Assay NIST SRM 3105a Lot Number: 090514

**Assay Method #2**      **10025 ± 51 µg/mL**  
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i}^2)]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method  $A$  with

$u_{char\ a}$  = the standard uncertainty of characterization Method  $A$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3  $\mu\text{m}$ .

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.001100 | M Eu < 0.000270 | O Na < 0.040962 | M Se < 0.005000 | M Zn < 0.013054 |
| O Al < 0.016205 | O Fe < 0.015754 | M Nb < 0.000270 | O Si < 0.024307 | O Zr < 0.001900 |
| M As < 0.002900 | M Ga < 0.000270 | M Nd < 0.000270 | M Sm < 0.000270 |                 |
| M Au < 0.000520 | M Gd < 0.000270 | M Ni < 0.003700 | M Sn < 0.000790 |                 |
| M B < 0.091000  | M Ge < 0.000270 | M Os < 0.000260 | M Sr < 0.000630 |                 |
| M Ba < 0.002700 | M Hf < 0.000270 | O P < 0.066000  | M Ta < 0.000270 |                 |
| s Be < 0.000530 | M Hg < 0.000520 | M Pb < 0.000270 | M Tb < 0.000270 |                 |
| M Bi < 0.000530 | M Ho < 0.000270 | M Pd < 0.000520 | M Te < 0.003700 |                 |
| O Ca < 0.072022 | M In < 0.000790 | M Pr < 0.000270 | M Th < 0.000270 |                 |
| M Cd < 0.000790 | M Ir < 0.000260 | M Pt < 0.000270 | O Ti < 0.000400 |                 |
| M Ce < 0.000270 | O K < 0.045014  | M Rb < 0.000270 | M Tl < 0.000790 |                 |
| O Co < 0.003200 | M La < 0.000270 | M Re < 0.000270 | M Tm < 0.000270 |                 |
| O Cr < 0.001800 | O Li < 0.000660 | M Rh < 0.001100 | M U < 0.000270  |                 |
| M Cs < 0.001440 | M Lu < 0.000270 | M Ru < 0.000260 | M V < 0.000790  |                 |
| M Cu < 0.002100 | O Mg < 0.016205 | i S < 0.000270  | M W < 0.000530  |                 |
| M Dy < 0.000270 | M Mn < 0.001215 | M Sb < 0.000270 | M Y < 0.000270  |                 |
| M Er < 0.000270 | M Mo < 0.000530 | O Sc < 0.000930 | M Yb < 0.000270 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 9.01 +2 4 Be(H<sub>2</sub>O)<sub>4</sub>+2

**Chemical Compatibility** -Soluble in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub> and HF aqueous matrices. Stable with all metals and inorganic anions.

**Stability** - 2-100 ppb levels stable for months in 1 % HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 5-10 % HNO<sub>3</sub> / LDPE container.

**Be Containing Samples (Preparation and Solution)** - Meta I(is best dissolved in diluted H<sub>2</sub>SO<sub>4</sub> ); BeO (boiling nitric, hydrochloric, or sulfuric acids or KHSO<sub>4</sub> fusion); Ores (H<sub>2</sub>SO<sub>4</sub>/HF digestion or carbonate fusion in Pt0); Organic Matrices (sulfuric/peroxide digestion or nitric/sulfuric/perchloric acid decomposition, or dry ash and dissolution according to the BeO procedure above).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences</b> (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 9 amu          | 4 ppt                 | N/A          |  |
| ICP-OES 234.861 nm    | 0.0003/0.00016 µg/mL  | 1            | Fe, Ta, Mo   |
| ICP-OES 313.042 nm    | 0.0003/0.00009 µg/mL  | 1            | V, Ce, U   |
| ICP-OES 313.107 nm    | 0.0007/0.0005 µg/mL   | 1            | Ce, Th, Tm   |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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## 11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

**11.1 Certification Issue Date**

May 13, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **May 13, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**11.4 Revision Status**

- Revision 1 - Revised on Thursday, Jan 14, 2021 by utruong. Revision was made for the following reason: Modified Section 7 Chemical Form in Solution.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Director, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



**1.0 ACCREDITATION / REGISTRATION**

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



**2.0 PRODUCT DESCRIPTION**

Product Code: Single Analyte Custom Grade Solution  
 Catalog Number: CGCO10  
 Lot Number: R2-CO695285  
 Matrix: 3% (v/v) HNO3  
 Value / Analyte(s): 10 000 µg/mL ea:  
 Cobalt  
 Starting Material: Co Metal  
 Starting Material Lot#: 2326  
 Starting Material Purity: 99.9934%

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

**Certified Value:** 10012 ± 31 µg/mL  
**Density:** 1.056 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

- Assay Method #1**      **10031 ± 67 µg/mL**  
 ICP Assay NIST SRM 3113 Lot Number: 190630
  
- Assay Method #2**      **10019 ± 32 µg/mL**  
 EDTA NIST SRM 928 Lot Number: 928
  
- Assay Method #3**      **10000 ± 35 µg/mL**  
 Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/CRM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.



### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an UPLA-Filtered Clean Room. An UPLA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|      |          |          |          |          |          |          |          |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| M Ag | 0.014660 | M Eu     | <        | 0.000590 | O Na     | 0.007534 | M Se     | <        | 0.019000 | M Zn     | 0.003461 |          |
| M Al | <        | 0.024000 | M Fe     | 0.050905 | M Nb     | <        | 0.000590 | O Si     | 0.075340 | M Zr     | <        | 0.001200 |
| i As | <        |          | M Ga     | <        | 0.000590 | M Nd     | <        | 0.000590 | M Sm     | <        | 0.000590 |          |
| M Au | <        | 0.004100 | M Gd     | <        | 0.000590 | O Ni     | 0.427608 | M Sn     | <        | 0.001200 |          |          |
| M B  | <        | 0.031000 | M Ge     | <        | 0.003000 | M Os     | <        | 0.000590 | O Sr     | <        | 0.000260 |          |
| M Ba | <        | 0.000590 | M Hf     | <        | 0.000590 | n P      | <        |          | M Ta     | <        | 0.001200 |          |
| O Be | <        | 0.001300 | M Hg     | <        | 0.001800 | M Pb     | 0.003257 | M Tb     | <        | 0.000590 |          |          |
| M Bi | <        | 0.003000 | M Ho     | <        | 0.000590 | M Pd     | <        | 0.000590 | M Te     | <        | 0.005300 |          |
| O Ca | 0.010588 | M In     | <        | 0.001200 | M Pr     | <        | 0.000590 | M Th     | <        | 0.000590 |          |          |
| M Cd | <        | 0.004700 | M Ir     | <        | 0.001200 | M Pt     | <        | 0.002400 | M Ti     | <        | 0.014000 |          |
| M Ce | <        | 0.000590 | O K      | 0.008144 | M Rb     | <        | 0.000590 | M Tl     | 0.002647 |          |          |          |
| s Co | <        |          | M La     | <        | 0.000590 | M Re     | <        | 0.000590 | M Tm     | <        | 0.000590 |          |
| M Cr | <        | 0.021000 | O Li     | <        | 0.000130 | M Rh     | <        | 0.000590 | M U      | <        | 0.000590 |          |
| M Cs | <        | 0.002400 | M Lu     | <        | 0.000590 | M Ru     | <        | 0.007100 | O V      | <        | 0.000880 |          |
| M Cu | 0.189369 | O Mg     | 0.001893 | n S      | <        |          |          | M W      | <        | 0.000590 |          |          |
| M Dy | <        | 0.000590 | M Mn     | <        | 0.001800 | M Sb     | <        | 0.003600 | M Y      | <        | 0.000590 |          |
| M Er | <        | 0.000590 | M Mo     | <        | 0.002400 | O Sc     | <        | 0.001600 | M Yb     | <        | 0.000590 |          |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 58.93 +2 6 Co(H<sub>2</sub>O)<sub>6</sub><sup>2+</sup>

**Chemical Compatibility** - Stable in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, HF, H<sub>3</sub>PO<sub>4</sub>. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO<sub>3</sub> / LDPE container.

**Co Containing Samples (Preparation and Solution)** - Metal (soluble in HNO<sub>3</sub>); Oxides (Soluble in HCl); Ores (dissolve in HCl / HNO<sub>3</sub>).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.   | Order | Interferences (underlined indicates severe)                     |
|--------------------|------------------|-------|---|
| ICP-MS 59 amu      | 2 ppt            | n/a   | 42Ca16O1H ,<br>40Ar18O1H ,<br>36Ar23Na,<br>43Ca16O,<br>24Mg35Cl |
| ICP-OES 228.616 nm | 0.01/0.001 µg/mL | 1     |   |
| ICP-OES 237.862 nm | 0.01/0.002 µg/mL | 1     | W, Re, Al, Ta   |
| ICP-OES 238.892 nm | 0.01/0.002 µg/mL | 1     | Fe, W, Ta   |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

August 04, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **August 04, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Director, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGAG10  
Lot Number: S2-AG712977  
Matrix: 7% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Silver  
Starting Material: Ag Shot  
Starting Material Lot#: 2289  
Starting Material Purity: 99.9951%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10051 ± 30 µg/mL  
**Density:** 1.056 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |   |
|------------------------|---|
| <b>Assay Method #1</b> | <b>10051 ± 52 µg/mL</b><br>ICP Assay NIST SRM 3151 Lot Number: 160729   |
| <b>Assay Method #2</b> | <b>10051 ± 19 µg/mL</b><br>Volhard NIST SRM 999c Lot Number: 999c       |
| <b>Assay Method #3</b> | <b>10049 ± 31 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$  where  $u_{char i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

$X_a$  = mean of Assay Method A with

$u_{char a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|   |      |          |   |      |          |   |      |          |   |      |          |   |      |          |
|---|------|----------|---|------|----------|---|------|----------|---|------|----------|---|------|----------|
| s | Ag < |          | M | Eu < | 0.000260 | O | Na   | 0.003811 | M | Se < | 0.003900 | O | Zn   | 0.048146 |
| M | Al   | 0.002688 | O | Fe   | 0.006419 | M | Nb < | 0.000260 | O | Si   | 0.005215 | M | Zr < | 0.000260 |
| M | As < | 0.001100 | M | Ga < | 0.000260 | M | Nd < | 0.000260 | M | Sm < | 0.000260 |   |      |          |
| M | Au < | 0.000260 | M | Gd < | 0.000260 | O | Ni   | 0.001765 | M | Sn   | 0.020060 |   |      |          |
| O | B <  | 0.004300 | M | Ge < | 0.002300 | M | Os < | 0.001100 | O | Sr < | 0.000110 |   |      |          |
| M | Ba < | 0.000520 | M | Hf < | 0.000260 | O | P <  | 0.017000 | M | Ta < | 0.000260 |   |      |          |
| O | Be < | 0.001100 | M | Hg < | 0.000770 | M | Pb < | 0.003600 | M | Tb < | 0.000260 |   |      |          |
| M | Bi   | 0.004814 | M | Ho < | 0.000260 | M | Pd   | 0.044134 | M | Te < | 0.009000 |   |      |          |
| O | Ca   | 0.005215 | M | In   | 0.003691 | M | Pr < | 0.000260 | M | Th < | 0.000260 |   |      |          |
| M | Cd < | 0.000260 | M | Ir < | 0.000520 | M | Pt < | 0.001100 | O | Ti < | 0.000440 |   |      |          |
| M | Ce < | 0.002100 | O | K <  | 0.008700 | M | Rb < | 0.001100 | M | Tl < | 0.004100 |   |      |          |
| O | Co < | 0.000330 | M | La < | 0.000260 | M | Re < | 0.000260 | M | Tm < | 0.000260 |   |      |          |
| O | Cr < | 0.002500 | O | Li < | 0.000110 | M | Rh < | 0.000520 | M | U <  | 0.000260 |   |      |          |
| M | Cs < | 0.002600 | M | Lu < | 0.000260 | M | Ru < | 0.000260 | M | V <  | 0.000260 |   |      |          |
| O | Cu   | 0.357085 | O | Mg   | 0.001203 | O | S <  | 0.017000 | M | W <  | 0.000260 |   |      |          |
| M | Dy < | 0.000260 | O | Mn < | 0.000220 | M | Sb < | 0.014000 | M | Y <  | 0.000260 |   |      |          |
| M | Er < | 0.000260 | M | Mo < | 0.000260 | O | Sc < | 0.000220 | M | Yb < | 0.000260 |   |      |          |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference

n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 107.87 +1 6 Ag(H<sub>2</sub>O)<sub>6</sub><sup>+</sup>  
**Chemical Compatibility** - Stable in HNO<sub>3</sub>, and HF. Avoid basic media. Ag forms more insoluble salts than any other metal. It also is subject to photochemical reduction to the metal in HCl media although 10 µg/mL solutions in 10% HCl [AgCl<sub>x</sub>1-x] are commonly used in the analytical laboratory. The most common solubility problems exist with arsenate, arsenite, bromide, chloride, iodide, carbonate, chromate, cyanide, iodate, oxalate, oxide, sulfate, sulfide, tartrate, and thiocyanate in aqueous media. The addition of nitric acid renders many of these salts soluble.

**Stability** - 2-100 ppb levels stable for 75+ days when mixed with equivalent levels of all other elements including the precious metals (where chloride is present) when in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO<sub>3</sub> / LDPE container.

**Ag Containing Samples (Preparation and Solution)** - Metal (Soluble in HNO<sub>3</sub>); Oxides (Soluble in HNO<sub>3</sub>); Ores (Digestion with conc. HNO<sub>3</sub>).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.     | Order | Interferences (underlined indicates severe) |
|--------------------|--------------------|-------|---|
| ICP-MS 107 amu     | 1 ppt              | N/A   | 91Zr16O                                     |
| ICP-OES 243.779 nm | 0.12/0.01 µg/mL    | 1     | Mn, Th, Ni, Rh                              |
| ICP-OES 328.068 nm | 0.007/0.0007 µg/mL | 1     | Ce, Rh, V                                   |
| ICP-OES 338.289 nm | 0.013/0.001 µg/mL  | 1     | Ce, Cr, Th                                  |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Prepared By:**

Uyen Truong  
Supervisor, Product Documentation



**Certificate Approved By:**

Michael Booth  
Director, Technical



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGCR(3)10  
Lot Number: S2-CR709784  
Matrix: 10% (v/v) HNO3  
Value / Analyte(s): 10 000 µg/mL ea:  
Chromium  
Starting Material: Cr Metal  
Starting Material Lot#: 2328  
Starting Material Purity: 99.9951%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10027 ± 41 µg/mL  
**Density:** 1.072 g/mL (measured at 20 ± 4 °C)

### Assay Information:

**Assay Method #1**      **10027 ± 40 µg/mL**  
ICP Assay NIST SRM 3112a Lot Number: 170630

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

#### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char i}$   
 $w_i$  = the weighting factors for each method calculated using the inverse square of the variance:  
 $w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2  
 $u_{char}$  =  $[\sum(w_i)^2 (u_{char i})^2]^{1/2}$  where  $u_{char i}$  are the errors from each characterization method  
 $u_{bb}$  = bottle to bottle homogeneity standard uncertainty  
 $u_{Its}$  = long term stability standard uncertainty (storage)  
 $u_{ts}$  = transport stability standard uncertainty

#### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a)(u_{char a})$$

$X_a$  = mean of Assay Method A with  
 $u_{char a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2  
 $u_{char a}$  = the errors from characterization  
 $u_{bb}$  = bottle to bottle homogeneity standard uncertainty  
 $u_{Its}$  = long term stability standard uncertainty (storage)  
 $u_{ts}$  = transport stability standard uncertainty



**4.0 TRACEABILITY TO NIST**

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

**4.1 Thermometer Calibration**

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

**4.2 Balance Calibration**

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

**4.3 Glassware Calibration**

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

**5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)**

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|        |          |   |      |          |   |      |          |   |      |          |   |      |          |
|--------|----------|---|------|----------|---|------|----------|---|------|----------|---|------|----------|
| M Ag < | 0.001700 | M | Eu < | 0.003400 | O | Na   | 0.090372 | M | Se < | 0.012000 | O | Zn < | 0.006100 |
| M Al   | 0.034916 | O | Fe   | 0.246471 | M | Nb < | 0.017000 | n | Si < |          | M | Zr < | 0.007800 |
| M As < | 0.028000 | O | Ga < | 0.013000 | M | Nd < | 0.013000 | M | Sm < | 0.006900 |   |      |          |
| M Au < | 0.001700 | M | Gd < | 0.000560 | M | Ni   | 0.016020 | M | Sn   | 0.006983 |   |      |          |
| O B <  | 0.025000 | O | Ge < | 0.014000 | M | Os < | 0.000560 | M | Sr   | 0.006367 |   |      |          |
| M Ba < | 0.008900 | M | Hf < | 0.000560 | i | P <  |          | M | Ta < | 0.000560 |   |      |          |
| M Be < | 0.013000 | M | Hg < | 0.001700 | M | Pb   | 0.010064 | M | Tb < | 0.000560 |   |      |          |
| M Bi < | 0.002300 | M | Ho < | 0.000560 | M | Pd < | 0.021000 | M | Te < | 0.010000 |   |      |          |
| O Ca   | 0.075995 | M | In < | 0.000560 | M | Pr < | 0.001700 | M | Th < | 0.000560 |   |      |          |
| M Cd < | 0.000560 | M | Ir < | 0.000560 | M | Pt < | 0.001200 | O | Ti   | 0.013555 |   |      |          |
| M Ce < | 0.001200 | O | K    | 0.043132 | i | Rb < |          | M | Tl < | 0.000560 |   |      |          |
| M Co < | 0.002600 | M | La < | 0.001200 | M | Re < | 0.001200 | O | Tm < | 0.013000 |   |      |          |
| s Cr < |          | O | Li   | 0.000390 | M | Rh < | 0.095000 | M | U <  | 0.000560 |   |      |          |
| M Cs < | 0.007800 | M | Lu < | 0.000560 | M | Ru < | 0.087000 | O | V    | 0.014993 |   |      |          |
| O Cu   | 0.007599 | O | Mg   | 0.000883 | i | S <  |          | M | W <  | 0.049000 |   |      |          |
| M Dy < | 0.000560 | M | Mn   | 0.008626 | M | Sb < | 0.003400 | M | Y <  | 0.001700 |   |      |          |
| M Er < | 0.019000 | M | Mo < | 0.032000 | M | Sc   | 0.003080 | M | Yb < | 0.000560 |   |      |          |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

**6.0 INTENDED USE**

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

**7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL**

**7.1 Storage and Handling Recommendations**

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 52.00 +3 6 Cr(H<sub>2</sub>O)<sub>6</sub>3+

**Chemical Compatibility** -Stable in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, HF, H<sub>3</sub>PO<sub>4</sub>. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO<sub>3</sub> / LDPE container.

**Cr<sup>3+</sup> Containing Samples (Preparation and Solution)** -Metal (soluble in HCl ); Oxides/Ores (Chrome ore/oxides are very difficult to dissolve. The following procedures [A-D] are commonly used: A. Fusion with KHSO<sub>4</sub> and extraction with hot KCl. The residue fused with Na<sub>2</sub>CO<sub>3</sub> and KClO<sub>3</sub>, 3:1. B. Fusion with NaKSO<sub>4</sub> and NaF 2:1, C. Fusion with magnesia or lime and sodium or potassium carbonates, 4:1. D. Fusion with Na<sub>2</sub>O<sub>2</sub> or NaOH and KNO<sub>3</sub> or NaOH and Na<sub>2</sub>O<sub>2</sub>. Nickel, iron, copper, or silver crucibles should be used for D. Platinum may be used for A, <, C); Organic Matrices (ash at 4500C followed by one of the fusion methods above or sulfuric/hydrogen peroxide acid digestions may be applicable to non oxide containing samples).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences</b> (underlined indicates severe)  |
|-----------------------|-----------------------|--------------|---|
| ICP-MS 52 amu         | 40 ppt                | N/A          | 36S16O, 36Ar16O -<br>The 50Cr, 53Cr,<br>54Cr lines suffer<br>from many more<br>potential<br>interferences from<br>sulfur, chlorine and<br>argon compounds<br>of oxygen, nitrogen<br>and carbon. |
| ICP-OES 205.552 nm    | 0.006/0.0008 µg/mL    | 1            | Os  |
| ICP-OES 276.654 nm    | 0.01/0.001 µg/mL      | 1            | Cu, Ta, V   |
| ICP-OES 284.325 nm    | 0.008/0.0007 µg/mL    | 1            |   |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

October 26, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

### 11.2 Lot Expiration Date

- **October 26, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

### Certificate Approved By:

Michael Booth  
Director, Quality Control



### Certifying Officer:

Paul Gaines  
Chairman / Senior Technical Director



## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
 Catalog Number: CGNI10  
 Lot Number: P2-NI686384  
 Matrix: 3% (v/v) HNO<sub>3</sub>  
 Value / Analyte(s): 10 000 µg/mL ea:  
 Nickel  
 Starting Material: Ni Metal  
 Starting Material Lot#: 2277 and 2282  
 Starting Material Purity: 99.9992%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 9979 ± 30 µg/mL  
**Density:** 1.038 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |  |
|------------------------|--|
| <b>Assay Method #1</b> | <b>9971 ± 54 µg/mL</b><br>ICP Assay NIST SRM 3136 Lot Number: 120619   |
| <b>Assay Method #2</b> | <b>9970 ± 32 µg/mL</b><br>EDTA NIST SRM 928 Lot Number: 928            |
| <b>Assay Method #3</b> | <b>9993 ± 33 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|      |          |          |          |          |          |          |          |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| M Ag | 0.002606 | M Eu     | <        | 0.001100 | O Na     | 0.004965 | O Se     | <        | 0.067000 | M Zn     | 0.006578 |          |
| M Al | <        | 0.013000 | O Fe     | 0.018618 | M Nb     | <        | 0.001100 | O Si     | 0.010923 | M Zr     | <        | 0.001100 |
| O As | <        | 0.067000 | M Ga     | <        | 0.001100 | M Nd     | <        | 0.001100 | M Sm     | <        | 0.001100 |          |
| M Au | <        | 0.002100 | M Gd     | <        | 0.001100 | s Ni     | <        |          | M Sn     | <        | 0.016000 |          |
| M B  | <        | 0.017000 | M Ge     | <        | 0.004200 | M Os     | 0.002110 | O Sr     | <        | 0.000940 |          |          |
| M Ba | <        | 0.001100 | M Hf     | <        | 0.001100 | i P      | <        |          | M Ta     | <        | 0.001100 |          |
| O Be | <        | 0.000410 | M Hg     | 0.014895 | M Pb     | 0.006578 | M Tb     | <        | 0.001100 |          |          |          |
| M Bi | <        | 0.004200 | M Ho     | <        | 0.001100 | M Pd     | <        | 0.001100 | M Te     | <        | 0.015000 |          |
| O Ca | 0.003351 | M In     | <        | 0.001100 | M Pr     | <        | 0.001100 | M Th     | <        | 0.001100 |          |          |
| M Cd | 0.001365 | M Ir     | 0.004716 | M Pt     | <        | 0.001100 | M Ti     | <        | 0.004200 |          |          |          |
| M Ce | <        | 0.001100 | O K      | 0.004716 | M Rb     | <        | 0.001100 | M Tl     | <        | 0.001100 |          |          |
| O Co | 0.017377 | M La     | <        | 0.001100 | M Re     | 0.001737 | M Tm     | <        | 0.001100 |          |          |          |
| O Cr | <        | 0.006700 | O Li     | <        | 0.000140 | M Rh     | <        | 0.006300 | M U      | <        | 0.001100 |          |
| M Cs | <        | 0.007300 | M Lu     | <        | 0.001100 | M Ru     | <        | 0.019000 | M V      | <        | 0.002100 |          |
| M Cu | 0.004096 | O Mg     | 0.000372 | i S      | <        |          |          | M W      | <        | 0.006300 |          |          |
| M Dy | <        | 0.001100 | O Mn     | <        | 0.001900 | M Sb     | 0.005833 | O Y      | <        | 0.000540 |          |          |
| M Er | <        | 0.001100 | M Mo     | <        | 0.008400 | M Sc     | <        | 0.002100 | M Yb     | <        | 0.001100 |          |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 58.69 +2 6 Ni(H<sub>2</sub>O)<sub>6</sub><sup>2+</sup>

**Chemical Compatibility** -Stable in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, HF, H<sub>3</sub>PO<sub>4</sub>. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO<sub>3</sub> / LDPE container.

**Ni Containing Samples (Preparation and Solution)** -Metal (Soluble in HNO<sub>3</sub>); Oxides ( Soluble in HCl ); Ores (Dissolve in HCl / HNO<sub>3</sub>).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences</b> (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 60 amu         | 100 ppt               | n/a          | 43Ca16O1H ,<br>44Ca16O,<br>23Na37Cl                |
| ICP-OES 221.647 nm    | 0.01 / 0.0009 µg/mL   | 1            | Si   |
| ICP-OES 231.604 nm    | 0.02 / 0.002 µg/mL    | 1            | Sb, Ta, Co   |
| ICP-OES 232.003 nm    | 0.02 / 0.006 µg/mL    | 1            | Cr, Re, Os, Nb, Ag,<br>Pt, Fe                      |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

December 02, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **December 02, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
CEO, Senior Technical Director



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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGV10  
Lot Number: S2-V711005  
Matrix: 7% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Vanadium  
Starting Material: Vanadium Pentoxide  
Starting Material Lot#: 1782  
Starting Material Purity: 99.9877%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10014 ± 30 µg/mL  
**Density:** 1.104 g/mL (measured at 20 ± 4 °C)

### Assay Information:

**Assay Method #1**      **10017 ± 42 µg/mL**  
ICP Assay NIST SRM 3165 Lot Number: 160906

**Assay Method #2**      **10013 ± 30 µg/mL**  
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .



### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$  where  $u_{char i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

$X_a$  = mean of Assay Method A with

$u_{char a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3  $\mu\text{m}$ .

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000110 | M Eu < 0.000110 | O Na 0.120000   | M Se < 0.009400 | M Zn 0.009400   |
| O Al 0.120000   | O Fe 0.460000   | M Nb < 0.001300 | O Si 0.270000   | M Zr < 0.002900 |
| M As < 0.000210 | M Ga < 0.009300 | M Nd < 0.000610 | M Sm < 0.000110 |                 |
| M Au < 0.004700 | M Gd < 0.000110 | M Ni 0.012000   | M Sn 0.003900   |                 |
| M B 0.051000    | M Ge < 0.000410 | M Os < 0.000110 | O Sr 0.007100   |                 |
| M Ba 0.003600   | M Hf < 0.000110 | O P < 0.034000  | M Ta < 0.000110 |                 |
| O Be < 0.000560 | M Hg < 0.000410 | M Pb 0.001400   | M Tb < 0.000110 |                 |
| M Bi < 0.000210 | M Ho < 0.000110 | M Pd < 0.000410 | M Te < 0.000110 |                 |
| O Ca 0.730000   | M In < 0.000110 | M Pr < 0.000110 | M Th < 0.000210 |                 |
| M Cd < 0.000610 | M Ir < 0.000110 | M Pt < 0.000110 | M Ti 0.017000   |                 |
| M Ce < 0.000610 | M K 0.052000    | M Rb < 0.000310 | M Tl < 0.000110 |                 |
| M Co < 0.001300 | M La < 0.000410 | M Re 0.001700   | M Tm < 0.000110 |                 |
| O Cr 0.170000   | M Li < 0.000810 | M Rh < 0.000110 | M U < 0.000410  |                 |
| M Cs 0.005600   | M Lu < 0.000110 | M Ru < 0.000110 | s V <           |                 |
| M Cu < 0.001300 | M Mg 0.053000   | i S <           | M W 0.002000    |                 |
| M Dy < 0.000110 | M Mn 0.007900   | M Sb 0.078000   | M Y < 0.000110  |                 |
| M Er < 0.000110 | M Mo 0.094000   | M Sc < 0.000410 | M Yb < 0.000110 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 50.94 +5 6 H<sub>2</sub>V<sub>10</sub>O<sub>28</sub>-

**Chemical Compatibility** -Soluble in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, HF, H<sub>3</sub>PO<sub>4</sub> and strong basic media. Stable with most metals and inorganic anions in acidic media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO<sub>3</sub> / LDPE container.

**V Containing Samples (Preparation and Solution)** -Metal (Fusion with NaOH or KOH in NiO or Na<sub>2</sub>CO<sub>3</sub> / KNO<sub>3</sub>); Oxides (V<sub>2</sub>O<sub>3</sub> - use HCl, V<sub>2</sub>O<sub>4</sub> - use HCl or HNO<sub>3</sub>, V<sub>2</sub>O<sub>5</sub> - use concentrated acids); Ores (Na<sub>2</sub>CO<sub>3</sub> / KNO<sub>3</sub> in PtO caution - nitrates attack PtO followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V<sub>2</sub>O<sub>5</sub> above) .

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences</b> (underlined indicates severe)   |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 51 amu         | 4 ppt                 | N/A          | 34S16O1H,<br>35Cl16O, 38Ar13C,<br>36Ar15N,<br>36Ar14N1H,<br>37Cl14N,36S15N,<br>33S18O, 34S17O,<br>102Ru+2,02Pd+2 |
| ICP-OES 290.882 nm    | 0.008 / 0.0008 µg/mL  | 1            | Hf, Nb   |
| ICP-OES 292.402 nm    | 0.006 / 0.001 µg/mL   | 1            | Th   |
| ICP-OES 309.311 nm    | 0.005 / 0.001 µg/mL   | 1            | Mg, U, Th  |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

**10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"**

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

**11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY**

**11.1 Certification Issue Date**

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Thomas Kozikowski  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGAL10  
Lot Number: T2-AL716102  
Matrix: 7% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Aluminum  
Starting Material: Aluminum Nitrate Nonahydrate  
Starting Material Lot#: 2460  
Starting Material Purity: 99.9938%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10049 ± 31 µg/mL  
**Density:** 1.087 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |   |
|------------------------|---|
| <b>Assay Method #1</b> | <b>10059 ± 40 µg/mL</b><br>ICP Assay NIST SRM 3101a Lot Number: 140903  |
| <b>Assay Method #2</b> | <b>10044 ± 26 µg/mL</b><br>EDTA NIST SRM 928 Lot Number: 928            |
| <b>Assay Method #3</b> | <b>10049 ± 35 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3  $\mu\text{m}$ .

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.002100 | M Eu < 0.002100 | O Na < 0.352819 | M Se < 0.005200 | M Zn < 0.006018 |
| s Al < 0.002100 | O Fe < 0.074714 | M Nb < 0.000520 | O Si < 0.017848 | O Zr < 0.004358 |
| M As < 0.008716 | O Ga < 0.112072 | M Nd < 0.000520 | M Sm < 0.000520 |                 |
| M Au < 0.008400 | M Gd < 0.001100 | O Ni < 0.006000 | M Sn < 0.000747 |                 |
| O B < 0.014000  | M Ge < 0.005200 | M Os < 0.000650 | O Sr < 0.000518 |                 |
| O Ba < 0.012867 | M Hf < 0.004100 | n P < 0.000520  | M Ta < 0.000520 |                 |
| O Be < 0.000270 | M Hg < 0.002000 | M Pb < 0.002282 | M Tb < 0.000520 |                 |
| M Bi < 0.001930 | M Ho < 0.000520 | M Pd < 0.000520 | M Te < 0.001100 |                 |
| O Ca < 0.076790 | M In < 0.002100 | M Pr < 0.000520 | M Th < 0.000520 |                 |
| M Cd < 0.000520 | M Ir < 0.000650 | M Pt < 0.000520 | O Ti < 0.001930 |                 |
| M Ce < 0.001100 | O K < 0.043583  | M Rb < 0.000520 | M Tl < 0.000520 |                 |
| O Co < 0.005400 | M La < 0.002100 | M Re < 0.000520 | M Tm < 0.000520 |                 |
| O Cr < 0.006018 | O Li < 0.000112 | M Rh < 0.000520 | M U < 0.000520  |                 |
| M Cs < 0.000643 | M Lu < 0.000520 | M Ru < 0.002000 | M V < 0.001286  |                 |
| O Cu < 0.008300 | O Mg < 0.068488 | i S < 0.000520  | M W < 0.009800  |                 |
| M Dy < 0.002100 | O Mn < 0.000913 | M Sb < 0.003100 | M Y < 0.001100  |                 |
| M Er < 0.000520 | M Mo < 0.005396 | O Sc < 0.000950 | M Yb < 0.000520 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 26.98 +3 6 Al(H<sub>2</sub>O)<sub>6</sub>+3

**Chemical Compatibility** -Soluble in HCl, HNO<sub>3</sub>, vF and v<sub>2</sub>SO<sub>4</sub>. Avoid neutral media. Soluble in strongly basic NaOH forming the Al(OH)<sub>4</sub>(H<sub>2</sub>O)<sub>2</sub><sup>-</sup> species. Stable with most metals and inorganic anions. The phosphate is insoluble in water and only slightly soluble in acid.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO<sub>3</sub> / LDPE container.

**Al Containing Samples (Preparation and Solution)** -Metal (Best dissolved in HCl / HNO<sub>3</sub> ); a- Al<sub>2</sub>O<sub>3</sub> (Na<sub>2</sub>CO<sub>3</sub> fusion in PtO);

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.   | Order | Interferences (underlined indicates severe)                  |
|--------------------|------------------|-------|--|
| ICP-MS 27 amu      | 30 ppt           | N/A   | 12C15N, 13C14N,<br>1H12C14N,<br>11B16O,<br>54Cr2+,<br>54Fe2+ |
| ICP-OES 167.078 nm | 0.1/0.009 µg/mL  | 1     | Fe   |
| ICP-OES 394.401 nm | 0.05/0.006 µg/mL | 1     | U, Ce  |
| ICP-OES 396.152 nm | 0.03/0.006 µg/mL | 1     | Mo, Zr, Ce   |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

March 22, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **March 22, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**


- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Thomas Kozikowski  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGK10  
Lot Number: S2-K711973  
Matrix: 2% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Potassium  
Starting Material: KNO<sub>3</sub>  
Starting Material Lot#: 2313  
Starting Material Purity: 99.9971%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 9992 ± 30 µg/mL  
**Density:** 1.024 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |   |
|------------------------|---|
| <b>Assay Method #1</b> | <b>9987 ± 24 µg/mL</b><br>Gravimetric NIST SRM Lot Number: See Sec. 4.2 |
| <b>Assay Method #2</b> | <b>10004 ± 84 µg/mL</b><br>ICP Assay NIST SRM 3141a Lot Number: 140813  |
| <b>Assay Method #3</b> | <b>10007 ± 45 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.



### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3  $\mu\text{m}$ .

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.001400 | M Eu < 0.000660 | O Na < 0.246220 | M Se < 0.007900 | O Zn < 0.018056 |
| O Al < 0.001592 | O Fe < 0.005909 | M Nb < 0.000660 | O Si < 0.011490 | O Zr < 0.001600 |
| M As < 0.005300 | M Ga < 0.000660 | M Nd < 0.000660 | M Sm < 0.000660 |                 |
| M Au < 0.002000 | M Gd < 0.000660 | O Ni < 0.004900 | M Sn < 0.000660 |                 |
| O B < 0.005600  | M Ge < 0.002000 | M Os < 0.003300 | O Sr < 0.000055 |                 |
| O Ba < 0.000860 | M Hf < 0.000660 | O P < 0.032000  | M Ta < 0.000660 |                 |
| O Be < 0.000082 | M Hg < 0.002000 | M Pb < 0.002300 | M Tb < 0.000660 |                 |
| M Bi < 0.006600 | M Ho < 0.000660 | M Pd < 0.000660 | M Te < 0.017000 |                 |
| O Ca < 0.031187 | M In < 0.000660 | M Pr < 0.000660 | M Th < 0.000660 |                 |
| O Cd < 0.000450 | M Ir < 0.000660 | M Pt < 0.002700 | M Ti < 0.000660 |                 |
| M Ce < 0.000660 | s K <           | M Rb < 0.476026 | M Tl < 0.000660 |                 |
| O Co < 0.000780 | M La < 0.000660 | M Re < 0.000660 | M Tm < 0.000660 |                 |
| O Cr < 0.000541 | O Li < 0.000084 | M Rh < 0.000660 | M U < 0.000660  |                 |
| M Cs < 0.000660 | M Lu < 0.000660 | M Ru < 0.000660 | O V < 0.001100  |                 |
| M Cu < 0.002700 | O Mg < 0.006237 | O S < 0.027905  | M W < 0.000660  |                 |
| M Dy < 0.000660 | O Mn < 0.000476 | M Sb < 0.000660 | M Y < 0.000660  |                 |
| M Er < 0.000660 | M Mo < 0.000660 | O Sc < 0.000340 | O Yb < 0.000270 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 39.10 +1 (6) K+(aq)

**Chemical Compatibility** -Soluble in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub> and HF aqueous matrices. Avoid use of HClO<sub>4</sub> due to insolubility of the perchlorate. Stable with all metals and inorganic anions except ClO<sub>4</sub><sup>-</sup>.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO<sub>3</sub> / LDPE container.

**K Containing Samples (Preparation and Solution)** - Metal (Dissolves very rapidly in water); Ores (Sodium carbonate fusion in Pt0 followed by HCl dissolution-blank levels of K in sodium carbonate critical); Organic Matrices (Sulfuric/peroxide digestion )

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences</b> (underlined indicates severe)           |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 39 amu         | 10 ppt                | n/a          | 38ArH, 23Na16O,<br>78Se                                      |
| ICP-OES 404.721 nm    | 1.1 / 0.05 µg/mL      | 1            | U, Ce  |
| ICP-OES 766.490 nm    | 0.4 / 0.001 µg/mL     | 1            | 2nd order radiation<br>from R.E.s on some<br>optical designs |
| ICP-OES 771.531 nm    | 1.0 / 0.03 µg/mL      | 1            | 2nd order radiation<br>from R.E.s on some<br>optical designs |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

**11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY**

**11.1 Certification Issue Date**

December 10, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **December 10, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**


- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Thomas Kozikowski  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



300 Technology Drive  
Christiansburg, VA 24073 USA  
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F: 540-585-3012  
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGMG10  
Lot Number: S2-MG704239  
Matrix: 2% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Magnesium  
Starting Material: Magnesium Metal  
Starting Material Lot#: 2168  
Starting Material Purity: 99.9984%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10053 ± 30 µg/mL  
**Density:** 1.053 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |   |
|------------------------|---|
| <b>Assay Method #1</b> | <b>10022 ± 62 µg/mL</b><br>ICP Assay NIST SRM 3131a Lot Number: 140110  |
| <b>Assay Method #2</b> | <b>10078 ± 26 µg/mL</b><br>EDTA NIST SRM 928 Lot Number: 928            |
| <b>Assay Method #3</b> | <b>10033 ± 26 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i^2)(u_{char\ i}^2)]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a)(u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3  $\mu\text{m}$ .

|        |          |   |      |          |        |          |        |          |        |          |
|--------|----------|---|------|----------|--------|----------|--------|----------|--------|----------|
| O Ag   | 0.002106 | M | Eu < | 0.000910 | O Na   | 0.071075 | O Se < | 0.048000 | O Zn   | 0.003299 |
| M Al   | 0.003553 | M | Fe   | 0.002538 | M Nb < | 0.000460 | O Si < | 0.032000 | O Zr < | 0.002700 |
| M As < | 0.001400 | M | Ga < | 0.000460 | M Nd < | 0.000910 | M Sm < | 0.000460 |        |          |
| M Au < | 0.001400 | M | Gd < | 0.000460 | O Ni < | 0.001600 | M Sn < | 0.002300 |        |          |
| O B    | 0.006853 | M | Ge < | 0.001400 | M Os < | 0.000460 | O Sr   | 0.000279 |        |          |
| O Ba   | 0.000964 | M | Hf < | 0.000460 | O P    | 0.015230 | M Ta < | 0.000460 |        |          |
| O Be < | 0.000120 | M | Hg < | 0.000460 | M Pb < | 0.000460 | M Tb < | 0.000460 |        |          |
| M Bi < | 0.000460 | M | Ho < | 0.000460 | M Pd < | 0.003200 | M Te < | 0.007300 |        |          |
| O Ca   | 0.053306 | M | In < | 0.000460 | M Pr < | 0.000460 | M Th < | 0.000460 |        |          |
| O Cd < | 0.000360 | M | Ir < | 0.000460 | M Pt < | 0.001900 | O Ti < | 0.001700 |        |          |
| M Ce < | 0.002300 | M | K    | 0.048229 | M Rb   | 0.002411 | M Tl   | 0.003046 |        |          |
| M Co < | 0.000910 | M | La < | 0.002800 | M Re < | 0.000460 | M Tm < | 0.000460 |        |          |
| M Cr < | 0.002300 | O | Li   | 0.027922 | M Rh < | 0.000460 | M U <  | 0.000460 |        |          |
| M Cs   | 0.001040 | M | Lu < | 0.000460 | M Ru < | 0.000460 | M V <  | 0.000460 |        |          |
| O Cu < | 0.003000 | s | Mg < |          | O S <  | 0.190000 | M W <  | 0.000460 |        |          |
| M Dy < | 0.000460 | O | Mn   | 0.015230 | M Sb   | 0.020814 | O Y <  | 0.000720 |        |          |
| M Er < | 0.000460 | M | Mo < | 0.000910 | O Sc < | 0.000480 | M Yb < | 0.000460 |        |          |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 24.31 +2 6 Mg(H<sub>2</sub>O)<sub>6</sub>+2

**Chemical Compatibility** -Soluble in HCl, HNO<sub>3</sub>, and H<sub>2</sub>SO<sub>4</sub> avoid HF, H<sub>3</sub>PO<sub>4</sub> and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicates, carbonates, hydroxides, oxides, and tungstates in neutral and slightly acidic media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO<sub>3</sub> / LDPE container.

**Mg Containing Samples (Preparation and Solution)** -Metal (Best dissolved in diluted HNO<sub>3</sub> ); Oxide (Readily soluble in above compatible aqueous acidic solutions); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric / peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b>  | <b>Order</b> | <b>Interferences</b> (underlined indicates severe) |
|-----------------------|------------------------|--------------|--|
| ICP-MS 24 amu         | 42 ppt                 | n/a          | 7Li17O, 48Ti+2 ,<br>48Ca+2                         |
| ICP-OES 279.553 nm    | 0.0002 / 0.00003 µg/mL | 1            | Th   |
| ICP-OES 280.270 nm    | 0.0003 / 0.00005 µg/mL | 1            | U, V   |
| ICP-OES 285.213 nm    | 0.002 / 0.00003 µg/mL  | 1            | U, Hf, Cr, Zr                                      |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

April 23, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **April 23, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Director, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGCA10  
Lot Number: T2-CA716103  
Matrix: 2% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Calcium  
Starting Material: CaCO<sub>3</sub>  
Starting Material Lot#: 2472  
Starting Material Purity: 99.9950%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10005 ± 30 µg/mL  
**Density:** 1.039 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |   |
|------------------------|---|
| <b>Assay Method #1</b> | <b>10005 ± 45 µg/mL</b><br>ICP Assay NIST SRM 3109a Lot Number: 130213  |
| <b>Assay Method #2</b> | <b>10005 ± 25 µg/mL</b><br>EDTA NIST SRM 928 Lot Number: 928            |
| <b>Assay Method #3</b> | <b>10005 ± 31 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.



### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$  where  $u_{char i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

$X_a$  = mean of Assay Method A with

$u_{char a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3  $\mu\text{m}$ .

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.001200 | M Eu < 0.001200 | O Na < 0.006112 | M Se < 0.024000 | M Zn < 0.005362 |
| M Al < 0.065419 | O Fe < 0.009115 | M Nb < 0.001200 | O Si < 0.139417 | O Zr < 0.006700 |
| O As < 0.013000 | M Ga < 0.015000 | M Nd < 0.020000 | M Sm < 0.001200 |                 |
| M Au < 0.017000 | M Gd < 0.004800 | O Ni < 0.000793 | M Sn < 0.003600 |                 |
| O B < 0.001179  | M Ge < 0.003600 | M Os < 0.001200 | M Sr < 0.081505 |                 |
| O Ba < 0.002788 | M Hf < 0.001200 | O P < 0.041000  | M Ta < 0.001200 |                 |
| O Be < 0.000410 | M Hg < 0.004800 | M Pb < 0.001608 | M Tb < 0.001200 |                 |
| M Bi < 0.001608 | M Ho < 0.001200 | M Pd < 0.001200 | M Te < 0.003600 |                 |
| s Ca <          | M In < 0.001200 | M Pr < 0.000257 | M Th < 0.001200 |                 |
| O Cd < 0.001300 | M Ir < 0.001200 | M Pt < 0.003600 | O Ti < 0.001900 |                 |
| M Ce < 0.001029 | O K < 0.009759  | M Rb < 0.001200 | M Tl < 0.001200 |                 |
| O Co < 0.000418 | M La < 0.001823 | M Re < 0.001200 | M Tm < 0.001200 |                 |
| O Cr < 0.003324 | O Li < 0.007300 | M Rh < 0.001200 | M U < 0.002144  |                 |
| M Cs < 0.007399 | M Lu < 0.000128 | M Ru < 0.001200 | M V < 0.001286  |                 |
| O Cu < 0.011000 | M Mg < 1.286934 | O S < 0.055767  | O W < 0.024000  |                 |
| M Dy < 0.002400 | O Mn < 0.004611 | M Sb < 0.009600 | O Y < 0.000536  |                 |
| M Er < 0.002400 | M Mo < 0.003539 | O Sc < 0.001400 | M Yb < 0.001200 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 40.08 +2 6 Ca(H<sub>2</sub>O)<sub>6</sub>+2  
**Chemical Compatibility** - Soluble in HCl and HNO<sub>3</sub>. Avoid H<sub>2</sub>SO<sub>4</sub>, vF, v3PO<sub>4</sub> and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, and tungstate in neutral aqueous media.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO<sub>3</sub> / LDPE container.

**Ca Containing Samples )Preparation and Solution** -Metal ( best dissolved in diluted HNO<sub>3</sub> ); Ores ( Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (dry ash and dissolution in dilute HCl. Do not heat when dissolving to avoid precipitation of SiO<sub>2</sub>). The oxide, hydroxide, carbonate, phosphate, and fluoride of calcium are soluble in % levels of HCl or HNO<sub>3</sub>. The sulfates (gypsum, anhydrite, etc.), certain silicates, and complex compounds require fusion with Na<sub>2</sub>CO<sub>3</sub> followed by HCl / water dissolution. Note that contamination is a very real problem when analyzing for trace levels.

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.         | Order | Interferences (underlined indicates severe) |
|--------------------|------------------------|-------|---|
| ICP-MS 44 amu      | 1200 ppt               | n/a   | 16O212C,<br>28Si16O, 88Sr                   |
| ICP-OES 393.366 nm | 0.0002 / 0.00004 µg/mL | 1     | U, Ce                                       |
| ICP-OES 396.847 nm | 0.0005 / 0.00006 µg/mL | 1     | Th  |
| ICP-OES 422.673 nm | 0.01 / 0.001 µg/mL     | 1     | Ge  |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

**11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY**

**11.1 Certification Issue Date**

March 14, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **March 14, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**


- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Thomas Kozikowski  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



300 Technology Drive  
Christiansburg, VA 24073 USA  
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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGNA10  
Lot Number: T2-NA717221  
Matrix: 2% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Sodium  
Starting Material: Na<sub>2</sub>CO<sub>3</sub>  
Starting Material Lot#: 2358 and 2453  
Starting Material Purity: 99.9977%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 9977 ± 30 µg/mL  
**Density:** 1.033 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |   |
|------------------------|---|
| <b>Assay Method #1</b> | <b>9974 ± 18 µg/mL</b><br>Gravimetric NIST SRM Lot Number: See Sec. 4.2 |
| <b>Assay Method #2</b> | <b>9977 ± 34 µg/mL</b><br>ICP Assay NIST SRM 3152a Lot Number: 200413   |
| <b>Assay Method #3</b> | <b>9987 ± 31 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2  |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$  where  $u_{char i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

$X_a$  = mean of Assay Method A with

$u_{char a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000930 | M Eu < 0.000930 | s Na <          | M Se < 0.003800 | O Zn < 0.000138 |
| M Al < 0.004409 | O Fe < 0.002393 | M Nb < 0.000930 | O Si < 0.056696 | O Zr < 0.003200 |
| O As < 0.023000 | M Ga < 0.000930 | M Nd < 0.000930 | M Sm < 0.000930 |                 |
| O Au < 0.004100 | M Gd < 0.000930 | O Ni < 0.003000 | M Sn < 0.002800 |                 |
| O B < 0.001385  | M Ge < 0.004700 | M Os < 0.000930 | O Sr < 0.000251 |                 |
| M Ba < 0.004031 | M Hf < 0.000930 | O P < 0.010205  | M Ta < 0.000930 |                 |
| O Be < 0.000130 | M Hg < 0.000930 | M Pb < 0.000930 | M Tb < 0.000930 |                 |
| M Bi < 0.000930 | M Ho < 0.000930 | M Pd < 0.000930 | M Te < 0.001900 |                 |
| O Ca < 0.176388 | M In < 0.000930 | M Pr < 0.000930 | M Th < 0.000352 |                 |
| O Cd < 0.000860 | M Ir < 0.000930 | M Pt < 0.000930 | O Ti < 0.000592 |                 |
| M Ce < 0.001900 | O K < 0.302380  | M Rb < 0.000930 | M Tl < 0.000930 |                 |
| O Co < 0.001800 | O La < 0.002100 | M Re < 0.000930 | M Tm < 0.000930 |                 |
| M Cr < 0.002800 | O Li < 0.000031 | M Rh < 0.000930 | M U < 0.000930  |                 |
| M Cs < 0.000930 | M Lu < 0.000930 | M Ru < 0.001900 | O V < 0.001600  |                 |
| O Cu < 0.003900 | O Mg < 0.026458 | O S < 0.040317  | O W < 0.028000  |                 |
| M Dy < 0.000930 | O Mn < 0.000740 | M Sb < 0.000930 | O Y < 0.000860  |                 |
| M Er < 0.000930 | O Mo < 0.003600 | O Sc < 0.000610 | O Yb < 0.000250 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 22.99 +1 (6) Na+(aq) largely ionic in nature

**Chemical Compatibility** -Soluble in HCl, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub> and HF aqueous matrices. Stable with all metals and inorganic anions.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO<sub>3</sub> / LDPE container.

**Na Containing Samples (Preparation and Solution)** - Metal (Dissolves very rapidly in water); Ores (Lithium carbonate fusion in graphite crucible followed by HCl dissolution - blank levels of Na in lithium carbonate critical); Organic Matrices (Sulfuric / peroxide digestion or nitric/sulfuric/perchloric acid decomposition).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| <b>Technique/Line</b> | <b>Estimated D.L.</b> | <b>Order</b> | <b>Interferences</b> (underlined indicates severe)     |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 23 amu         | 310 ppt               | n/a          | 46Ti+2 , 46Ca+2  |
| ICP-OES 330.237 nm    | 2.0 / 0.09 µg/mL      | 1            | Pd, Zn   |
| ICP-OES 588.995 nm    | 0.03 / 0.006 µg/mL    | 1            | 2nd order radiation from R.E.s on some optical designs |
| ICP-OES 589.595 nm    | 0.07 / 0.00009 µg/mL  | 1            | 2nd order radiation from R.E.s on some optical designs |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

**11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY**

**11.1 Certification Issue Date**

April 20, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **April 20, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Thomas Kozikowski  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGU1  
Lot Number: S2-U707914  
Matrix: 2% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 1 000 µg/mL ea:  
Uranium  
Starting Material: Uranyl Nitrate Hexahydrate  
Starting Material Lot#: P2-2322  
Starting Material Purity: 99.9997%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 999 ± 5 µg/mL  
**Density:** 1.010 g/mL (measured at 20 ± 4 °C)

### Assay Information:

**Assay Method #1**      **998 ± 5 µg/mL**  
ICP Assay NIST SRM 3164 Lot Number: 080521

**Assay Method #2**      **1001 ± 6 µg/mL**  
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .



### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$  where  $u_{char i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

$X_a$  = mean of Assay Method A with

$u_{char a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Certified Abundance:

#### IV's Certified Abundance

| Isotope      | Atom %      |
|--------------|-------------|
| Uranium 238U | 99.8 ± 0.1  |
| Uranium 235U | 0.19 ± 0.05 |

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000270 | M Eu < 0.000270 | M Na < 0.011000 | M Se < 0.009300 | M Zn < 0.002358 |
| M Al < 0.011000 | M Fe < 0.003222 | M Nb < 0.000270 | M Si < 0.160000 | M Zr < 0.001100 |
| M As < 0.002400 | M Ga < 0.000270 | M Nd < 0.000270 | M Sm < 0.000270 |                 |
| M Au < 0.000270 | M Gd < 0.000270 | M Ni < 0.020000 | M Sn < 0.011000 |                 |
| M B < 0.000270  | M Ge < 0.000800 | M Os < 0.001900 | M Sr < 0.000270 |                 |
| M Ba < 0.003800 | M Hf < 0.000270 | i P <           | M Ta < 0.000270 |                 |
| M Be < 0.000270 | M Hg < 0.000540 | M Pb < 0.002200 | M Tb < 0.000270 |                 |
| M Bi < 0.000270 | M Ho < 0.000270 | M Pd < 0.000540 | M Te < 0.003800 |                 |
| M Ca < 0.140000 | M In < 0.000270 | M Pr < 0.000270 | M Th < 0.000129 |                 |
| M Cd < 0.000270 | M Ir < 0.000270 | M Pt < 0.000270 | M Ti < 0.002700 |                 |
| M Ce < 0.000540 | O K < 0.250000  | M Rb < 0.000800 | M Tl < 0.000270 |                 |
| M Co < 0.000800 | M La < 0.000117 | M Re < 0.064000 | M Tm < 0.000270 |                 |
| M Cr < 0.000943 | M Li < 0.003000 | M Rh < 0.000270 | s U <           |                 |
| M Cs < 0.000106 | M Lu < 0.000270 | M Ru < 0.000540 | M V < 0.000540  |                 |
| M Cu < 0.001100 | M Mg < 0.003000 | i S <           | M W < 0.000540  |                 |
| M Dy < 0.000270 | M Mn < 0.006900 | M Sb < 0.000270 | M Y < 0.000270  |                 |
| M Er < 0.000270 | M Mo < 0.006400 | M Sc < 0.000540 | M Yb < 0.000270 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 238.03 +6 8 UO<sub>2</sub><sup>2+</sup>(uranyl)

**Chemical Compatibility** - Soluble in HCl and HNO<sub>3</sub>. Avoid H<sub>3</sub>PO<sub>4</sub>. H<sub>2</sub>SO<sub>4</sub> and HF matrices should not be a problem depending upon [U]. Although the UO<sub>2</sub><sup>2+</sup> ion is distinctly basic, any U+4 will precipitate in basic media. UO<sub>2</sub><sup>2+</sup>salts are generally soluble in water and UO<sub>2</sub><sup>2+</sup> is stable with most metals and inorganic anions. The uranyl phosphate is insoluble in water. UF<sub>4</sub> and UF<sub>6</sub> are water soluble.

**Stability** - 2-100 ppb levels stable for months in 1% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO<sub>3</sub> / LDPE container.

**U Containing Samples (Preparation and Solution)** -Metal (Dissolves rapidly in HCl and HNO<sub>3</sub>); Oxide (Soluble in HNO<sub>3</sub>); Ores (Digest for 1-2 hours with 1 gram of ore to 30 mL 1:1 HNO<sub>3</sub>. Silica insolubles are removed by filtration after bringing the sample to fumes with conc. H<sub>2</sub>SO<sub>4</sub>.)

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.   | Order | Interferences (underlined indicates severe)            |
|--------------------|------------------|-------|--|
| ICP-MS 238 amu     | 2 ppt            | N/A   | 206Pb16O2  |
| ICP-OES 263.553 nm | 0.3 / 0.01 µg/mL | 1     | Ce, Ir, Th, Rh, W, Zr,<br>Ta, Ti, V, Hf, Fe, Re,<br>Ru |
| ICP-OES 367.007 nm | 0.3 / 0.02 µg/mL | 1     | Th, Ce   |
| ICP-OES 385.958 nm | 0.3 / 0.01 µg/mL | 1     | Th, Fe   |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

**10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"**

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

**11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY**

**11.1 Certification Issue Date**

August 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **August 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Michael Booth  
Director, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



300 Technology Drive  
Christiansburg, VA 24073 USA  
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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution  
Catalog Number: AR-ICVMS-2  
Lot Number: T2-MEB719895  
Matrix: 3% (v/v) HNO3  
tr. HF  
Value / Analyte(s): 2.5 µg/mL ea:  
Molybdenum, Antimony

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE      | CERTIFIED VALUE     | ANALYTE        | CERTIFIED VALUE     |
|--------------|---------------------|----------------|---------------------|
| Antimony, Sb | 2.499 ± 0.015 µg/mL | Molybdenum, Mo | 2.500 ± 0.017 µg/mL |

Density: 1.014 g/mL (measured at 20 ± 4 °C)

### Assay Information:

| ANALYTE | METHOD     | NIST SRM# | SRM LOT#     |
|---------|------------|-----------|--------------|
| Mo      | ICP Assay  | 3134      | 130418       |
| Mo      | Calculated |           | See Sec. 4.2 |
| Sb      | ICP Assay  | 3102a     | 140911       |
| Sb      | Calculated |           | See Sec. 4.2 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

#### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method i with standard uncertainty  $u_{char i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum((w_i)^2 (u_{char i}^2))]^{1/2}$  where  $u_{char i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

#### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

$X_a$  = mean of Assay Method A with

$u_{char a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{Its}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

#### 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

##### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

##### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

##### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

#### 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

#### 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

#### 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

##### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**HF Note:** This standard should not be prepared or stored in glass.

#### 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

#### 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

#### 10.0 QUALITY STANDARD DOCUMENTATION

##### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

##### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

**10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"**

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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**11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY**

**11.1 Certification Issue Date**

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**


- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Thomas Kozikowski  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

|                     |                                     |            |
|---------------------|-------------------------------------|------------|
| Product Code:       | Multi Analyte Custom Grade Solution |            |
| Catalog Number:     | AR-ICVMS-3                          |            |
| Lot Number:         | T2-MEB719896                        |            |
| Matrix:             | 7% (v/v) HNO <sub>3</sub>           |            |
| Value / Analyte(s): | 250 µg/mL ea:                       |            |
|                     | Aluminum,                           | Calcium,   |
|                     | Iron,                               | Potassium, |
|                     | Magnesium,                          | Sodium,    |
|                     | 4 µg/mL ea:                         |            |
|                     | Selenium,                           |            |
|                     | 2.5 µg/mL ea:                       |            |
|                     | Thorium,                            | Thallium,  |
|                     | Uranium,                            | Vanadium,  |
|                     | Zinc,                               | Manganese, |
|                     | Cadmium,                            | Cobalt,    |
|                     | Chromium,                           | Copper,    |
|                     | Arsenic,                            | Barium,    |
|                     | Beryllium,                          | Nickel,    |
|                     | Lead,                               | Silver     |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| <b>ANALYTE</b> | <b>CERTIFIED VALUE</b> | <b>ANALYTE</b> | <b>CERTIFIED VALUE</b> |
|----------------|------------------------|----------------|------------------------|
| Aluminum, Al   | 250.0 ± 0.9 µg/mL      | Arsenic, As    | 2.500 ± 0.018 µg/mL    |
| Barium, Ba     | 2.501 ± 0.013 µg/mL    | Beryllium, Be  | 2.501 ± 0.015 µg/mL    |
| Cadmium, Cd    | 2.501 ± 0.013 µg/mL    | Calcium, Ca    | 250.0 ± 1.3 µg/mL      |
| Chromium, Cr   | 2.500 ± 0.015 µg/mL    | Cobalt, Co     | 2.500 ± 0.014 µg/mL    |
| Copper, Cu     | 2.500 ± 0.014 µg/mL    | Iron, Fe       | 250.0 ± 1.0 µg/mL      |
| Lead, Pb       | 2.500 ± 0.013 µg/mL    | Magnesium, Mg  | 250.0 ± 1.3 µg/mL      |
| Manganese, Mn  | 2.500 ± 0.014 µg/mL    | Nickel, Ni     | 2.500 ± 0.014 µg/mL    |
| Potassium, K   | 250.0 ± 1.2 µg/mL      | Selenium, Se   | 4.002 ± 0.024 µg/mL    |
| Silver, Ag     | 2.501 ± 0.017 µg/mL    | Sodium, Na     | 250.0 ± 1.2 µg/mL      |
| Thallium, Tl   | 2.500 ± 0.017 µg/mL    | Thorium, Th    | 2.499 ± 0.013 µg/mL    |
| Uranium, U     | 2.501 ± 0.015 µg/mL    | Vanadium, V    | 2.500 ± 0.014 µg/mL    |
| Zinc, Zn       | 2.500 ± 0.014 µg/mL    |                |                        |

**Density:** 1.042 g/mL (measured at 20 ± 4 °C)

**Assay Information:**



| ANALYTE | METHOD      | NIST SRM# | SRM LOT#     |
|---------|-------------|-----------|--------------|
| Ag      | ICP Assay   | 3151      | 160729       |
| Ag      | Volhard     | 999c      | 999c         |
| Ag      | Calculated  |           | See Sec. 4.2 |
| Al      | ICP Assay   | 3101a     | 140903       |
| Al      | EDTA        | 928       | 928          |
| As      | ICP Assay   | 3103a     | 100818       |
| Ba      | ICP Assay   | 3104a     | 140909       |
| Ba      | Calculated  |           | See Sec. 4.2 |
| Ba      | Gravimetric |           | See Sec. 4.2 |
| Be      | ICP Assay   | 3105a     | 090514       |
| Be      | Calculated  |           | See Sec. 4.2 |
| Ca      | ICP Assay   | 3109a     | 130213       |
| Ca      | EDTA        | 928       | 928          |
| Cd      | ICP Assay   | 3108      | 130116       |
| Cd      | EDTA        | 928       | 928          |
| Cd      | Calculated  |           | See Sec. 4.2 |
| Co      | ICP Assay   | 3113      | 190630       |
| Co      | EDTA        | 928       | 928          |
| Co      | Calculated  |           | See Sec. 4.2 |
| Cr      | ICP Assay   | 3112a     | 170630       |
| Cr      | Calculated  |           | See Sec. 4.2 |
| Cu      | ICP Assay   | 3114      | 121207       |
| Cu      | EDTA        | 928       | 928          |
| Cu      | Calculated  |           | See Sec. 4.2 |
| Fe      | ICP Assay   | 3126a     | 140812       |
| Fe      | EDTA        | 928       | 928          |
| K       | ICP Assay   | 3141a     | 140813       |
| K       | Gravimetric |           | See Sec. 4.2 |
| Mg      | ICP Assay   | 3131a     | 140110       |
| Mg      | EDTA        | 928       | 928          |
| Mn      | ICP Assay   | 3132      | 050429       |
| Mn      | EDTA        | 928       | 928          |
| Mn      | Calculated  |           | See Sec. 4.2 |
| Na      | ICP Assay   | 3152a     | 120715       |
| Na      | Gravimetric |           | See Sec. 4.2 |
| Ni      | ICP Assay   | 3136      | 120619       |
| Ni      | EDTA        | 928       | 928          |
| Ni      | Calculated  |           | See Sec. 4.2 |
| Pb      | ICP Assay   | 3128      | 101026       |
| Pb      | EDTA        | 928       | 928          |
| Pb      | Calculated  |           | See Sec. 4.2 |
| Se      | ICP Assay   | 3149      | 100901       |
| Se      | Calculated  |           | See Sec. 4.2 |
| Th      | EDTA        | 928       | 928          |
| Th      | Calculated  |           | See Sec. 4.2 |
| Tl      | ICP Assay   | 3158      | 151215       |
| Tl      | Calculated  |           | See Sec. 4.2 |
| U       | ICP Assay   | 3164      | 080521       |
| U       | Calculated  |           | See Sec. 4.2 |

|    |            |       |              |
|----|------------|-------|--------------|
| V  | ICP Assay  | 3165  | 160906       |
| V  | EDTA       | 928   | 928          |
| Zn | ICP Assay  | 3168a | 120629       |
| Zn | EDTA       | 928   | 928          |
| Zn | Calculated |       | See Sec. 4.2 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

#### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{\text{CRM/RM}}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{\text{char } i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum (1/u_{\text{char } j}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{\text{char}} = [\sum (w_i)^2 (u_{\text{char } i}^2)]^{1/2}$  where  $u_{\text{char } i}$  are the errors from each characterization method

$u_{\text{bb}}$  = bottle to bottle homogeneity standard uncertainty

$u_{\text{Its}}$  = long term stability standard uncertainty (storage)

$u_{\text{ts}}$  = transport stability standard uncertainty

#### Characterization of CRM/RM by One Method

Certified Value,  $X_{\text{CRM/RM}}$ , where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

$X_a$  = mean of Assay Method A with

$u_{\text{char } a}$  = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{\text{char } a}$  = the errors from characterization

$u_{\text{bb}}$  = bottle to bottle homogeneity standard uncertainty

$u_{\text{Its}}$  = long term stability standard uncertainty (storage)

$u_{\text{ts}}$  = transport stability standard uncertainty

#### Certified Abundance:

##### IV's Certified Abundance

| <u>Isotope</u> | <u>Atom %</u> |
|----------------|---------------|
| Uranium 238U   | 99.8 ± 0.1    |
| Uranium 235U   | 0.19 ± 0.05   |

#### 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

##### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

##### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

##### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

#### 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

#### 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

#### 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

##### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Note:** This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

<https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver>

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

### 11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

### 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

#### Certificate Approved By:

Thomas Kozikowski  
Manager, Quality Control



#### Certifying Officer:

Paul Gaines  
Chairman / Senior Technical Director



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## 1.0 ACCREDITATION / REGISTRATION

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## 2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution  
 Catalog Number: AR-6020ICS-0A10  
 Lot Number: T2-MEB719898  
 Matrix: 1.4% (v/v) HNO3  
 Value / Analyte(s):  
 1 000 µg/mL ea:  
 Chloride,  
 200 µg/mL ea:  
 Carbon,  
 100 µg/mL ea:  
 Calcium, Aluminum,  
 Iron, Potassium,  
 Magnesium, Sodium,  
 Phosphorus, Sulfur,  
 2 µg/mL ea:  
 Titanium, Molybdenum

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE        | CERTIFIED VALUE     | ANALYTE       | CERTIFIED VALUE     |
|----------------|---------------------|---------------|---------------------|
| Aluminum, Al   | 100.0 ± 0.4 µg/mL   | Calcium, Ca   | 100.0 ± 0.5 µg/mL   |
| Carbon, C      | 200.1 ± 0.5 µg/mL   | Chloride, Cl  | 1 000 ± 5 µg/mL     |
| Iron, Fe       | 100.0 ± 0.5 µg/mL   | Magnesium, Mg | 100.0 ± 0.5 µg/mL   |
| Molybdenum, Mo | 2.001 ± 0.014 µg/mL | Phosphorus, P | 100.0 ± 0.6 µg/mL   |
| Potassium, K   | 100.0 ± 0.5 µg/mL   | Sodium, Na    | 100.0 ± 0.5 µg/mL   |
| Sulfur, S      | 100.0 ± 0.5 µg/mL   | Titanium, Ti  | 2.001 ± 0.015 µg/mL |

**Density:** 1.009 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| ANALYTE | METHOD      | NIST SRM#         | SRM LOT#     |
|---------|-------------|-------------------|--------------|
| Al      | ICP Assay   | 3101a             | 140903       |
| Al      | EDTA        | 928               | 928          |
| C       | Acidimetric | 84L               | 84L          |
| Ca      | ICP Assay   | 3109a             | 130213       |
| Ca      | EDTA        | 928               | 928          |
| Cl      | Acidimetric | 84L               | 84L          |
| Fe      | ICP Assay   | 3126a             | 140812       |
| Fe      | EDTA        | 928               | 928          |
| K       | ICP Assay   | 3141a             | 140813       |
| K       | Gravimetric |                   | See Sec. 4.2 |
| Mg      | ICP Assay   | 3131a             | 140110       |
| Mg      | EDTA        | 928               | 928          |
| Mo      | ICP Assay   | 3134              | 130418       |
| Na      | ICP Assay   | 3152a             | 120715       |
| Na      | Gravimetric |                   | See Sec. 4.2 |
| P       | ICP Assay   | 3139a             | 060717       |
| P       | Acidimetric | 84L               | 84L          |
| S       | Acidimetric | 84L               | 84L          |
| S       | ICP Assay   | traceable to 3154 | P2-S680745   |
| Ti      | ICP Assay   | 3162a             | 130925       |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

#### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i) (X_i)$$

$X_i$  = mean of Assay Method i with standard uncertainty  $u_{char i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$  where  $u_{char i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

#### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

$X_a$  = mean of Assay Method A with

$u_{char a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

June 07, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

### 11.2 Lot Expiration Date

- **June 07, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

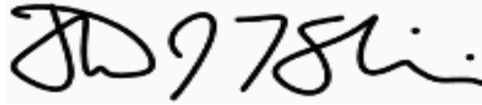
- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Approved By:**

Thomas Kozikowski  
Manager, Quality Control



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director







**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 7471B**  
Total Metals

|              |
|--------------|
| LDW23-SS1277 |
|--------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-01 D      SDG: 23A0179  
 Sampled: 01/10/23 08:24      Prepared: 04/05/23 16:24      File ID: SMM 04-06-23-048  
 % Solids: 56.80      Preparation: SMM EPA 7471B      Analyzed: 04/06/23 14:26  
 Batch: BLD0056      Sequence: SLD0102      Initial/Final: 0.229 g Wet / 50 mL  
 Instrument: HYDRA      Calibration: GD00018

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL     | MRL    | Q |
|-----------|---------|---------------------------|-----------------|---------|--------|---|
| 7439-97-6 | Mercury | 0.118                     | 1               | 0.00807 | 0.0384 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 7471B**  
Total Metals

|              |
|--------------|
| LDW23-SS1271 |
|--------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-02 D      SDG: 23A0179  
 Sampled: 01/10/23 08:43      Prepared: 04/05/23 16:24      File ID: SMM 04-06-23-057  
 % Solids: 64.44      Preparation: SMM EPA 7471B      Analyzed: 04/06/23 14:47  
 Batch: BLD0056      Sequence: SLD0102      Initial/Final: 0.221 g Wet / 50 mL  
 Instrument: HYDRA      Calibration: GD00018

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL     | MRL    | Q |
|-----------|---------|---------------------------|-----------------|---------|--------|---|
| 7439-97-6 | Mercury | 0.0719                    | 1               | 0.00737 | 0.0351 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**

**LDW23-SS1266**

**EPA 7471B**

Total Metals

Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0179-03 D

SDG: 23A0179

Sampled: 01/10/23 09:04

Prepared: 04/05/23 16:24

File ID: SMM 04-06-23-058

% Solids: 55.75

Preparation: SMM EPA 7471B

Analyzed: 04/06/23 14:49

Batch: BLD0056

Sequence: SLD0102

Initial/Final: 0.224 g Wet / 50 mL

Instrument: HYDRA

Calibration: GD00018

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL     | MRL    | Q |
|-----------|---------|---------------------------|-----------------|---------|--------|---|
| 7439-97-6 | Mercury | 0.102                     | 1               | 0.00841 | 0.0400 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 7471B**  
Total Metals

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| LDW23-SS1248 |
|--------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-04 D      SDG: 23A0179  
 Sampled: 01/10/23 09:20      Prepared: 04/05/23 16:24      File ID: SMM 04-06-23-059  
 % Solids: 54.20      Preparation: SMM EPA 7471B      Analyzed: 04/06/23 14:51  
 Batch: BLD0056      Sequence: SLD0102      Initial/Final: 0.252 g Wet / 50 mL  
 Instrument: HYDRA      Calibration: GD00018

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL     | MRL    | Q |
|-----------|---------|---------------------------|-----------------|---------|--------|---|
| 7439-97-6 | Mercury | 0.131                     | 1               | 0.00769 | 0.0366 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 7471B**  
Total Metals

|                     |
|---------------------|
| <b>LDW23-SS1239</b> |
|---------------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-05 D      SDG: 23A0179  
 Sampled: 01/10/23 09:35      Prepared: 04/05/23 16:24      File ID: SMM 04-06-23-060  
 % Solids: 65.08      Preparation: SMM EPA 7471B      Analyzed: 04/06/23 14:54  
 Batch: BLD0056      Sequence: SLD0102      Initial/Final: 0.223 g Wet / 50 mL  
 Instrument: HYDRA      Calibration: GD00018

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL     | MRL    | Q |
|-----------|---------|---------------------------|-----------------|---------|--------|---|
| 7439-97-6 | Mercury | 0.0589                    | 1               | 0.00723 | 0.0345 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 7471B**  
Total Metals

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| <b>LDW23-SS1213</b> |
|---------------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-06 D      SDG: 23A0179  
 Sampled: 01/10/23 09:54      Prepared: 04/05/23 16:24      File ID: SMM 04-06-23-061  
 % Solids: 50.11      Preparation: SMM EPA 7471B      Analyzed: 04/06/23 14:56  
 Batch: BLD0056      Sequence: SLD0102      Initial/Final: 0.284 g Wet / 50 mL  
 Instrument: HYDRA      Calibration: GD00018

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL     | MRL    | Q |
|-----------|---------|---------------------------|-----------------|---------|--------|---|
| 7439-97-6 | Mercury | 0.118                     | 1               | 0.00738 | 0.0351 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 7471B**  
Total Metals

|                     |
|---------------------|
| <b>LDW23-SS1200</b> |
|---------------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-07 D      SDG: 23A0179  
 Sampled: 01/10/23 10:10      Prepared: 04/05/23 16:24      File ID: SMM 04-06-23-062  
 % Solids: 67.54      Preparation: SMM EPA 7471B      Analyzed: 04/06/23 14:58  
 Batch: BLD0056      Sequence: SLD0102      Initial/Final: 0.246 g Wet / 50 mL  
 Instrument: HYDRA      Calibration: GD00018

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL     | MRL    | Q |
|-----------|---------|---------------------------|-----------------|---------|--------|---|
| 7439-97-6 | Mercury | 0.0615                    | 1               | 0.00632 | 0.0301 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 7471B**  
Total Metals

|              |
|--------------|
| LDW23-SS1178 |
|--------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-08 D      SDG: 23A0179  
 Sampled: 01/10/23 10:56      Prepared: 04/05/23 16:24      File ID: SMM 04-06-23-063  
 % Solids: 59.76      Preparation: SMM EPA 7471B      Analyzed: 04/06/23 15:01  
 Batch: BLD0056      Sequence: SLD0102      Initial/Final: 0.205 g Wet / 50 mL  
 Instrument: HYDRA      Calibration: GD00018

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL     | MRL    | Q |
|-----------|---------|---------------------------|-----------------|---------|--------|---|
| 7439-97-6 | Mercury | 0.116                     | 1               | 0.00857 | 0.0408 |   |





**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 7471B**  
Total Metals

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| LDW23-SS1171 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment      Laboratory ID: 23A0179-09 D      SDG: 23A0179

Sampled: 01/10/23 11:08      Prepared: 04/05/23 16:24      File ID: SMM 04-06-23-066

% Solids: 50.25      Preparation: SMM EPA 7471B      Analyzed: 04/06/23 15:08

Batch: BLD0056      Sequence: SLD0102      Initial/Final: 0.231 g Wet / 50 mL

Instrument: HYDRA      Calibration: GD00018

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL     | MRL    | Q |
|-----------|---------|---------------------------|-----------------|---------|--------|---|
| 7439-97-6 | Mercury | 0.193                     | 1               | 0.00905 | 0.0431 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 7471B**  
Total Metals

|              |
|--------------|
| LDW23-SS1112 |
|--------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-10 D      SDG: 23A0179  
 Sampled: 01/10/23 11:28      Prepared: 04/05/23 16:24      File ID: SMM 04-06-23-067  
 % Solids: 45.71      Preparation: SMM EPA 7471B      Analyzed: 04/06/23 15:10  
 Batch: BLD0056      Sequence: SLD0102      Initial/Final: 0.265 g Wet / 50 mL  
 Instrument: HYDRA      Calibration: GD00018

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL     | MRL    | Q |
|-----------|---------|---------------------------|-----------------|---------|--------|---|
| 7439-97-6 | Mercury | 0.192                     | 1               | 0.00867 | 0.0413 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 7471B**  
Total Metals

|                     |
|---------------------|
| <b>LDW23-SS1039</b> |
|---------------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-11 D      SDG: 23A0179  
 Sampled: 01/10/23 11:56      Prepared: 04/05/23 16:24      File ID: SMM 04-06-23-068  
 % Solids: 46.16      Preparation: SMM EPA 7471B      Analyzed: 04/06/23 15:12  
 Batch: BLD0056      Sequence: SLD0102      Initial/Final: 0.227 g Wet / 50 mL  
 Instrument: HYDRA      Calibration: GD00018

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL    | MRL    | Q |
|-----------|---------|---------------------------|-----------------|--------|--------|---|
| 7439-97-6 | Mercury | 0.181                     | 1               | 0.0100 | 0.0477 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 7471B**  
Total Metals

|                     |
|---------------------|
| <b>LDW23-SS1007</b> |
|---------------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-12 D      SDG: 23A0179  
 Sampled: 01/10/23 12:48      Prepared: 04/05/23 16:24      File ID: SMM 04-06-23-069  
 % Solids: 46.07      Preparation: SMM EPA 7471B      Analyzed: 04/06/23 15:15  
 Batch: BLD0056      Sequence: SLD0102      Initial/Final: 0.251 g Wet / 50 mL  
 Instrument: HYDRA      Calibration: GD00018

| CAS NO.   | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL     | MRL    | Q |
|-----------|---------|---------------------------|-----------------|---------|--------|---|
| 7439-97-6 | Mercury | 0.172                     | 1               | 0.00908 | 0.0432 |   |



**PREPARATION BATCH SUMMARY**  
**EPA 7471B**

Laboratory: Analytical Resources, LLC SDG: 23A0179  
Client: Anchor QEA, LLC Project: AOC5 MR Phase 1  
Batch: BLD0056 Batch Matrix: Solid Preparation: SMM EPA 7471B

| SAMPLE NAME  | LAB SAMPLE ID | LAB FILE ID      | DATE PREPARED  | OBSERVATIONS                     |
|--------------|---------------|------------------|----------------|----------------------------------|
| LDW23-SS1277 | 23A0179-01    | SMM 04-06-23-048 | 04/05/23 16:24 | Store frozen; FROZEN VOLUME USED |
| LDW23-SS1271 | 23A0179-02    | SMM 04-06-23-057 | 04/05/23 16:24 | Store frozen; FROZEN VOLUME USED |
| LDW23-SS1266 | 23A0179-03    | SMM 04-06-23-058 | 04/05/23 16:24 | Store frozen; FROZEN VOLUME USED |
| LDW23-SS1248 | 23A0179-04    | SMM 04-06-23-059 | 04/05/23 16:24 | Store frozen; FROZEN VOLUME USED |
| LDW23-SS1239 | 23A0179-05    | SMM 04-06-23-060 | 04/05/23 16:24 | Store frozen; FROZEN VOLUME USED |
| LDW23-SS1213 | 23A0179-06    | SMM 04-06-23-061 | 04/05/23 16:24 | Store frozen; FROZEN VOLUME USED |
| LDW23-SS1200 | 23A0179-07    | SMM 04-06-23-062 | 04/05/23 16:24 | Store frozen; FROZEN VOLUME USED |
| LDW23-SS1178 | 23A0179-08    | SMM 04-06-23-063 | 04/05/23 16:24 | Store frozen; FROZEN VOLUME USED |
| LDW23-SS1171 | 23A0179-09    | SMM 04-06-23-066 | 04/05/23 16:24 | Store frozen; FROZEN VOLUME USED |
| LDW23-SS1112 | 23A0179-10    | SMM 04-06-23-067 | 04/05/23 16:24 | Store frozen; FROZEN VOLUME USED |
| LDW23-SS1039 | 23A0179-11    | SMM 04-06-23-068 | 04/05/23 16:24 | Store frozen; FROZEN VOLUME USED |
| LDW23-SS1007 | 23A0179-12    | SMM 04-06-23-069 | 04/05/23 16:24 | Store frozen; FROZEN VOLUME USED |
| Blank        | BLD0056-BLK1  | SMM 04-06-23-046 | 04/05/23 16:24 |                                  |
| LCS          | BLD0056-BS1   | SMM 04-06-23-047 | 04/05/23 16:24 |                                  |
| LDW23-SS1277 | BLD0056-DUP1  | SMM 04-06-23-049 | 04/05/23 16:24 |                                  |
| LDW23-SS1277 | BLD0056-MS1   | SMM 04-06-23-050 | 04/05/23 16:24 |                                  |
| LDW23-SS1277 | BLD0056-MSD1  | SMM 04-06-23-051 | 04/05/23 16:24 |                                  |



# Mercury Digestion Log

Prep Code: SMM Balance ID: BALLO Matrix: SO11  
 Analyst: VR Block ID: 9 Date: 4/5/23  
 Bath Temp: 94C Start Time: 1310 End Time: 1625

| ARI Sample ID | Sample Bottle # | pH<2 | Initial Weight (g)<br>Volume (mL) | Final Volume (mL) | # KMnO <sub>4</sub> Aliquots | CLP | Comments  |
|---------------|-----------------|------|-----------------------------------|-------------------|------------------------------|-----|-----------|
| 23A158-14     | D               |      | 0.259                             | 50                |                              |     |           |
| ↓ -15         |                 |      | 0.266                             |                   |                              |     |           |
| ↓ -16         |                 |      | 0.227                             |                   |                              |     |           |
| 23A179-01     |                 |      | 0.229                             |                   |                              |     |           |
| ↓ -02         |                 |      | 0.221                             |                   |                              |     |           |
| ↓ -03         |                 |      | 0.224                             |                   |                              |     |           |
| ↓ -04         |                 |      | 0.252                             |                   |                              |     |           |
| ↓ -05         |                 |      | 0.223                             |                   |                              |     |           |
| ↓ -06         |                 |      | 0.284                             |                   |                              |     |           |
| ↓ -07         |                 |      | 0.246                             |                   |                              |     |           |
| ↓ -08         |                 |      | 0.205                             |                   |                              |     |           |
| ↓ -09         |                 |      | 0.231                             |                   |                              |     |           |
| ↓ -10         |                 |      | 0.265                             |                   |                              |     |           |
| ↓ -11         |                 |      | 0.227                             |                   |                              |     |           |
| ↓ -12         |                 |      | 0.251                             |                   |                              |     |           |
| 23A180-01     |                 |      | 0.243                             |                   |                              |     |           |
| -02           |                 |      | 0.248                             |                   |                              |     |           |
| -03           |                 |      | 0.285                             |                   |                              |     |           |
| -04           | ↓               |      | 0.233                             |                   |                              |     |           |
| BLD56-blk     | —               |      | —                                 |                   |                              |     | 23A179-01 |
| ↓ -b5         | —               |      | —                                 |                   |                              |     | ↓         |
| ↓ -chk        | —               |      | 0.232                             |                   |                              |     |           |
| ↓ -MS         | —               |      | 0.229                             |                   |                              |     |           |
| ↓ -MSD        | —               |      | 0.233                             | ↓                 | ↓                            |     | ↓         |
| —             | —               | —    | —                                 | —                 | —                            | —   | —         |

Chemical/Reagent ID:

HNO<sub>3</sub>: L2078 H<sub>2</sub>SO<sub>4</sub>: L922 HCl: —  
 5% K<sub>2</sub>S<sub>2</sub>O<sub>8</sub>: L3350 5% KMnO<sub>4</sub>: K1727 Digest Tube Lot: 2210117



**Form I**  
**METHOD BLANK DATA SHEET**  
**EPA 7471B**  
Total Metals

|              |
|--------------|
| <b>Blank</b> |
|--------------|

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Batch: BLD0056

Laboratory ID: BLD0056-BLK1

Prepared: 04/05/23 16:24

Matrix: Solid

Preparation: SMM EPA 7471B

Analyzed: 04/06/23 14:21

Sequence: SLD0102

Calibration: GD00018

Instrument: HYDRA

| CAS NO.   | Analyte | Concentration<br>(mg/kg wet) | Dilution<br>Factor | MDL     | MRL    | Q |
|-----------|---------|------------------------------|--------------------|---------|--------|---|
| 7439-97-6 | Mercury | ND                           | 1                  | 0.00525 | 0.0250 | U |



**LCS / LCS DUPLICATE RECOVERY**

**EPA 7471B**

Total Metals

|                |                                  |                |                        |
|----------------|----------------------------------|----------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u> |
| Matrix:        | <u>Solid</u>                     | Analyzed:      | <u>04/06/23 14:23</u>  |
| Batch:         | <u>BLD0056</u>                   | Laboratory ID: | <u>BLD0056-BS1</u>     |
| Preparation:   | <u>SMM EPA 7471B</u>             | Sequence Name: | <u>LCS</u>             |
| Initial/Final: | <u>0.2 g / 50 mL</u>             |                |                        |

| COMPOUND | SPIKE ADDED<br>(mg/kg wet) | LCS CONCENTRATION<br>(mg/kg wet) | Q | LCS %<br>REC. # | QC LIMITS<br>REC. |
|----------|----------------------------|----------------------------------|---|-----------------|-------------------|
| Mercury  | 0.500                      | 0.445                            |   | 89.0            | 80 - 120          |

\* Indicates values outside of QC limits





**DUPLICATES**

**EPA 7471B**

Total Metals

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: BLD0056-DUP1

Batch: BLD0056

Lab Source ID: 23A0179-01

Preparation: SMM EPA 7471B

Initial/Final: 0.232 g / 50 mL

Source Sample Name: LDW23-SS1277

% Solids: 56.80

| ANALYTE | CONTROL LIMIT | SAMPLE CONCENTRATION | DUPLICATE CONCENTRATION | RPD % | Q |
|---------|---------------|----------------------|-------------------------|-------|---|
| Mercury | 0.06 - 0.13   | 0.118                | 0.0961                  | 20.7  | L |

\*: Values outside of QC limits

L: Analyte concentration is  $\leq 5$  times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD



**MS / MS DUPLICATE RECOVERY**  
**EPA 7471B**

|                |                                  |                |                        |
|----------------|----------------------------------|----------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>         |
| Client:        | <u>Anchor OEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u> |
| Matrix:        | <u>Solid</u>                     | Analyzed:      | <u>04/06/23 14:30</u>  |
| Batch:         | <u>BLD0056</u>                   | Laboratory ID: | <u>BLD0056-MS1</u>     |
| Preparation:   | <u>SMM EPA 7471B</u>             | Sequence Name: | <u>Matrix Spike</u>    |
| Initial/Final: | <u>0.229 g / 50 mL</u>           | Source Sample: | <u>LDW23-SS1277</u>    |

| COMPOUND | SPIKE ADDED (mg/kg dry) | SAMPLE CONCENTRATION (mg/kg dry) | Q | MS CONCENTRATION (mg/kg dry) | Q | MS % REC. # | QC LIMITS REC. |
|----------|-------------------------|----------------------------------|---|------------------------------|---|-------------|----------------|
| Mercury  | 0.384                   | 0.118                            |   | 0.467                        |   | 90.8        | 75 - 125       |

\* Values outside of QC limits



**MS / MS DUPLICATE RECOVERY**  
**EPA 7471B**

|                |                                  |                |                         |
|----------------|----------------------------------|----------------|-------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>          |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u>  |
| Matrix:        | <u>Solid</u>                     | Analyzed:      | <u>04/06/23 14:33</u>   |
| Batch:         | <u>BLD0056</u>                   | Laboratory ID: | <u>BLD0056-MSD1</u>     |
| Preparation:   | <u>SMM EPA 7471B</u>             | Sequence Name: | <u>Matrix Spike Dup</u> |
| Initial/Final: | <u>0.233 g / 50 mL</u>           | Source Sample: | <u>LDW23-SS1277</u>     |

| COMPOUND | SPIKE ADDED (mg/kg dry) | MSD CONCENTRATION (mg/kg dry) | Q | MSD % REC. # | % RPD # | QC LIMITS |          |
|----------|-------------------------|-------------------------------|---|--------------|---------|-----------|----------|
|          |                         |                               |   |              |         | RPD       | REC.     |
| Mercury  | 0.378                   | 0.451                         |   | 88.0         | 3.66    | 20        | 75 - 125 |

\* Values outside of QC limits



## INITIAL CALIBRATION DATA

### EPA 7471B

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GD00018

Instrument: HYDRA

Calibration Date: 04/06/2023 16:32

| Compound | Level 01 |    | Level 02 |         | Level 03 |         | Level 04 |         | Level 05 |         | Level 06 |         |
|----------|----------|----|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|
|          | Conc     | RF | Conc     | RF      | Conc     | RF      | Conc     | RF      | Conc     | RF      | Conc     | RF      |
| Mercury  | 0        | 0  | 0.0001   | 6630000 | 0.0005   | 6044000 | 0.001    | 5974000 | 0.002    | 6052500 | 0.005    | 5912000 |



**INITIAL CALIBRATION DATA**

**EPA 7471B**

|                   |                           |             |                 |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory:       | Analytical Resources, LLC | SDG:        | 23A0179         |
| Client:           | Anchor QEA, LLC           | Project:    | AOC5 MR Phase 1 |
| Calibration:      | GD00018                   | Instrument: | HYDRA           |
| Calibration Date: | 04/06/2023 16:32          |             |                 |

| <b>COMPOUND</b> | <b>Mean RF</b> | <b>RF RSD</b> | <b>Linear COD</b> | <b>Quad COD</b> | <b>COD Limit</b> | <b>Q</b> |
|-----------------|----------------|---------------|-------------------|-----------------|------------------|----------|
| Mercury         | 5102083        | 49.3          | 0.9999            |                 | 0.99             |          |

| Sample ID    | Mean          | Units | Date                 | Method              |
|--------------|---------------|-------|----------------------|---------------------|
| SEQ-CAL1     | 71            | PPB   | 06 Apr 2023 10:35:37 | ARI 5 ppb (NO 0.05) |
| SEQ-CAL2     | 663           | PPB   | 06 Apr 2023 10:37:59 | ARI 5 ppb (NO 0.05) |
| SEQ-CAL3     | 3022          | PPB   | 06 Apr 2023 10:40:20 | ARI 5 ppb (NO 0.05) |
| SEQ-CAL4     | 5974          | PPB   | 06 Apr 2023 10:42:40 | ARI 5 ppb (NO 0.05) |
| SEQ-CAL5     | 12105         | PPB   | 06 Apr 2023 10:45:01 | ARI 5 ppb (NO 0.05) |
| SEQ-CAL6     | 29560         | PPB   | 06 Apr 2023 10:47:21 | ARI 5 ppb (NO 0.05) |
| SEQ-ICV      | 101.2% 4.0478 | PPB ✓ | 06 Apr 2023 11:04:52 | ARI 5 ppb (NO 0.05) |
| SEQ-ICB      | -0.0120       | PPB ✓ | 06 Apr 2023 11:07:11 | ARI 5 ppb (NO 0.05) |
| SEQ-CRL      | 89.2% 0.0892  | PPB ✓ | 06 Apr 2023 11:09:33 | ARI 5 ppb (NO 0.05) |
| SEQ-CCV      | 102.2% 4.0892 | PPB ✓ | 06 Apr 2023 11:11:53 | ARI 5 ppb (NO 0.05) |
| SEQ-CCB      | -0.0142       | PPB ✓ | 06 Apr 2023 11:14:12 | ARI 5 ppb (NO 0.05) |
| BLD0031-BLK1 | -0.0024       | PPB   | 06 Apr 2023 11:16:33 | ARI 5 ppb (NO 0.05) |
| BLD0031-BS1  | 1.8433        | PPB ✓ | 06 Apr 2023 11:18:52 | ARI 5 ppb (NO 0.05) |
| SEQ-CCV      | 101.1% 4.0433 | PPB ✓ | 06 Apr 2023 11:21:11 | ARI 5 ppb (NO 0.05) |
| SEQ-CCB      | -0.0126       | PPB ✓ | 06 Apr 2023 11:23:29 | ARI 5 ppb (NO 0.05) |
| SEQ-CCV      | 100.7% 4.0294 | PPB ✓ | 06 Apr 2023 13:11:35 | ARI 5 ppb (NO 0.05) |
| SEQ-CCB      | -0.0115       | PPB ✓ | 06 Apr 2023 13:13:53 | ARI 5 ppb (NO 0.05) |
| 23A0157-01   | 0.3997        | PPB   | 06 Apr 2023 13:16:15 | ARI 5 ppb (NO 0.05) |
| BLD0031-DUP1 | 0.3594        | PPB   | 06 Apr 2023 13:18:34 | ARI 5 ppb (NO 0.05) |
| BLD0031-MS1  | 0.7552        | PPB ✗ | 06 Apr 2023 13:20:53 | ARI 5 ppb (NO 0.05) |
| BLD0031-MSD1 | 1.5273        | PPB ✓ | 06 Apr 2023 13:23:12 | ARI 5 ppb (NO 0.05) |
| 23A0157-03   | 0.0613        | PPB   | 06 Apr 2023 13:25:31 | ARI 5 ppb (NO 0.05) |
| 23A0157-06   | 0.3954        | PPB   | 06 Apr 2023 13:27:49 | ARI 5 ppb (NO 0.05) |
| 23A0157-07   | 0.3579        | PPB   | 06 Apr 2023 13:30:08 | ARI 5 ppb (NO 0.05) |
| 23A0157-08   | 0.4123        | PPB   | 06 Apr 2023 13:32:28 | ARI 5 ppb (NO 0.05) |
| 23A0157-09   | 0.2981        | PPB   | 06 Apr 2023 13:34:48 | ARI 5 ppb (NO 0.05) |
| 23A0157-10   | 0.3399        | PPB   | 06 Apr 2023 13:37:08 | ARI 5 ppb (NO 0.05) |
| SEQ-CCV      | 101.8% 4.0729 | PPB ✓ | 06 Apr 2023 13:39:29 | ARI 5 ppb (NO 0.05) |
| SEQ-CCB      | -0.0130       | PPB ✓ | 06 Apr 2023 13:41:47 | ARI 5 ppb (NO 0.05) |
| 23A0157-11   | 0.1242        | PPB   | 06 Apr 2023 13:44:09 | ARI 5 ppb (NO 0.05) |
| 23A0157-12   | 0.3643        | PPB   | 06 Apr 2023 13:46:30 | ARI 5 ppb (NO 0.05) |
| 23A0157-13   | 0.4764        | PPB   | 06 Apr 2023 13:48:50 | ARI 5 ppb (NO 0.05) |
| 23A0158-04   | 0.5078        | PPB   | 06 Apr 2023 13:51:09 | ARI 5 ppb (NO 0.05) |
| 23A0158-05   | 0.4074        | PPB   | 06 Apr 2023 13:53:28 | ARI 5 ppb (NO 0.05) |
| 23A0158-06   | 0.8240        | PPB   | 06 Apr 2023 13:55:47 | ARI 5 ppb (NO 0.05) |
| 23A0158-07   | 0.5818        | PPB   | 06 Apr 2023 13:58:06 | ARI 5 ppb (NO 0.05) |
| 23A0158-08   | 0.1469        | PPB   | 06 Apr 2023 14:00:25 | ARI 5 ppb (NO 0.05) |
| 23A0158-09   | 0.1853        | PPB   | 06 Apr 2023 14:02:43 | ARI 5 ppb (NO 0.05) |
| 23A0158-10   | 0.6164        | PPB   | 06 Apr 2023 14:05:03 | ARI 5 ppb (NO 0.05) |
| SEQ-CCV      | 89.3% 3.5716  | PPB ✓ | 06 Apr 2023 14:07:23 | ARI 5 ppb (NO 0.05) |
| SEQ-CCB      | -0.0188       | PPB ✓ | 06 Apr 2023 14:09:42 | ARI 5 ppb (NO 0.05) |
| 23A0158-11   | 0.3216        | PPB   | 06 Apr 2023 14:12:04 | ARI 5 ppb (NO 0.05) |
| 23A0158-12   | 0.2713        | PPB   | 06 Apr 2023 14:14:25 | ARI 5 ppb (NO 0.05) |
| 23A0158-13   | 0.3788        | PPB   | 06 Apr 2023 14:16:45 | ARI 5 ppb (NO 0.05) |
| BLD0031-PS1  | 1.2435        | PPB ✓ | 06 Apr 2023 14:19:06 | ARI 5 ppb (NO 0.05) |
| BLD0056-BLK1 | -0.0087       | PPB   | 06 Apr 2023 14:21:27 | ARI 5 ppb (NO 0.05) |
| BLD0056-BS1  | 1.7797        | PPB ✓ | 06 Apr 2023 14:23:46 | ARI 5 ppb (NO 0.05) |
| 23A0179-01   | 0.3078        | PPB   | 06 Apr 2023 14:26:06 | ARI 5 ppb (NO 0.05) |
| BLD0056-DUP1 | 0.2533        | PPB   | 06 Apr 2023 14:28:26 | ARI 5 ppb (NO 0.05) |
| BLD0056-MS1  | 1.2159        | PPB ✓ | 06 Apr 2023 14:30:45 | ARI 5 ppb (NO 0.05) |
| BLD0056-MSD1 | 1.1927        | PPB ✓ | 06 Apr 2023 14:33:05 | ARI 5 ppb (NO 0.05) |
| SEQ-CCV      | 97.9% 3.9156  | PPB ✓ | 06 Apr 2023 14:35:25 | ARI 5 ppb (NO 0.05) |
| SEQ-CCB      | -0.0142       | PPB ✓ | 06 Apr 2023 14:37:43 | ARI 5 ppb (NO 0.05) |
| 23A0158-14   | 0.3319        | PPB   | 06 Apr 2023 14:40:05 | ARI 5 ppb (NO 0.05) |
| 23A0158-15   | 0.2772        | PPB   | 06 Apr 2023 14:42:24 | ARI 5 ppb (NO 0.05) |
| 23A0158-16   | 0.2542        | PPB   | 06 Apr 2023 14:44:45 | ARI 5 ppb (NO 0.05) |
| 23A0179-02   | 0.2049        | PPB   | 06 Apr 2023 14:47:05 | ARI 5 ppb (NO 0.05) |
| 23A0179-03   | 0.2545        | PPB   | 06 Apr 2023 14:49:25 | ARI 5 ppb (NO 0.05) |
| 23A0179-04   | 0.3590        | PPB   | 06 Apr 2023 14:51:46 | ARI 5 ppb (NO 0.05) |
| 23A0179-05   | 0.1709        | PPB   | 06 Apr 2023 14:54:06 | ARI 5 ppb (NO 0.05) |



# SMM 04-06-23

Method: ARI 5 ppb (NO 0.05)

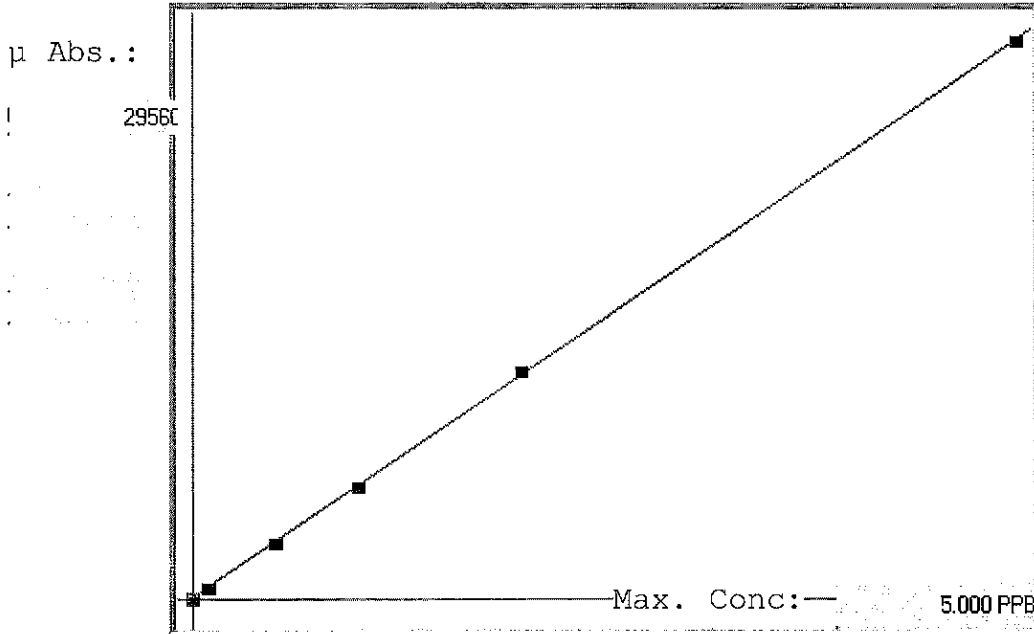
Operator: Admin

Date of Analysis: 06 Apr 2023 10:35:23

| Sample ID    | Mean          | Units | Date                 | Method              |
|--------------|---------------|-------|----------------------|---------------------|
| 23A0179-06   | 0.3370        | PPB   | 06 Apr 2023 14:56:26 | ARI 5 ppb (NO 0.05) |
| 23A0179-07   | 0.2042        | PPB   | 06 Apr 2023 14:58:46 | ARI 5 ppb (NO 0.05) |
| 23A0179-08   | 0.2854        | PPB   | 06 Apr 2023 15:01:05 | ARI 5 ppb (NO 0.05) |
| SEQ-CCV      | 100.0% 3.9991 | PPB ✓ | 06 Apr 2023 15:03:25 | ARI 5 ppb (NO 0.05) |
| SEQ-CCB      | -0.0128       | PPB ✓ | 06 Apr 2023 15:05:43 | ARI 5 ppb (NO 0.05) |
| 23A0179-09   | 0.4487        | PPB   | 06 Apr 2023 15:08:05 | ARI 5 ppb (NO 0.05) |
| 23A0179-10   | 0.4658        | PPB   | 06 Apr 2023 15:10:24 | ARI 5 ppb (NO 0.05) |
| 23A0179-11   | 0.3784        | PPB   | 06 Apr 2023 15:12:44 | ARI 5 ppb (NO 0.05) |
| 23A0179-12   | 0.3981        | PPB   | 06 Apr 2023 15:15:03 | ARI 5 ppb (NO 0.05) |
| 23A0180-01   | 0.5586        | PPB   | 06 Apr 2023 15:17:23 | ARI 5 ppb (NO 0.05) |
| 23A0180-02   | 0.5061        | PPB   | 06 Apr 2023 15:19:43 | ARI 5 ppb (NO 0.05) |
| 23A0180-03   | 0.5103        | PPB   | 06 Apr 2023 15:22:04 | ARI 5 ppb (NO 0.05) |
| 23A0180-04   | 0.4028        | PPB   | 06 Apr 2023 15:24:25 | ARI 5 ppb (NO 0.05) |
| BLD0124-BLK1 | -0.0074       | PPB   | 06 Apr 2023 15:26:46 | ARI 5 ppb (NO 0.05) |
| BLD0124-BS1  | 1.8358        | PPB ✓ | 06 Apr 2023 15:29:06 | ARI 5 ppb (NO 0.05) |
| SEQ-CCV      | 101.6% 4.0655 | PPB ✓ | 06 Apr 2023 15:31:25 | ARI 5 ppb (NO 0.05) |
| SEQ-CCB      | -0.0126       | PPB ✓ | 06 Apr 2023 15:33:44 | ARI 5 ppb (NO 0.05) |
| 23A0206-01   | 0.4785        | PPB   | 06 Apr 2023 15:36:06 | ARI 5 ppb (NO 0.05) |
| BLD0124-DUP1 | 0.6405        | PPB   | 06 Apr 2023 15:38:25 | ARI 5 ppb (NO 0.05) |
| BLD0124-MS1  | 1.5643        | PPB ✓ | 06 Apr 2023 15:40:45 | ARI 5 ppb (NO 0.05) |
| BLD0124-MSD1 | 1.5269        | PPB ✓ | 06 Apr 2023 15:43:04 | ARI 5 ppb (NO 0.05) |
| 23A0206-02   | 0.4202        | PPB   | 06 Apr 2023 15:45:24 | ARI 5 ppb (NO 0.05) |
| 23A0206-03   | 0.2849        | PPB   | 06 Apr 2023 15:47:43 | ARI 5 ppb (NO 0.05) |
| 23A0206-04   | 0.2801        | PPB   | 06 Apr 2023 15:50:02 | ARI 5 ppb (NO 0.05) |
| 23A0206-05   | 0.4032        | PPB   | 06 Apr 2023 15:52:22 | ARI 5 ppb (NO 0.05) |
| 23A0206-06   | 0.4391        | PPB   | 06 Apr 2023 15:54:43 | ARI 5 ppb (NO 0.05) |
| 23A0206-07   | 0.3668        | PPB   | 06 Apr 2023 15:57:04 | ARI 5 ppb (NO 0.05) |
| SEQ-CCV      | 101.1% 4.0451 | PPB ✓ | 06 Apr 2023 15:59:25 | ARI 5 ppb (NO 0.05) |
| SEQ-CCB      | -0.0123       | PPB ✓ | 06 Apr 2023 16:01:44 | ARI 5 ppb (NO 0.05) |
| 23A0206-08   | 0.3552        | PPB   | 06 Apr 2023 16:04:05 | ARI 5 ppb (NO 0.05) |
| 23A0206-09   | 0.4224        | PPB   | 06 Apr 2023 16:06:25 | ARI 5 ppb (NO 0.05) |
| 23A0206-10   | 0.3758        | PPB   | 06 Apr 2023 16:08:45 | ARI 5 ppb (NO 0.05) |
| 23A0206-11   | 0.4351        | PPB   | 06 Apr 2023 16:11:04 | ARI 5 ppb (NO 0.05) |
| 23A0206-12   | 0.3878        | PPB   | 06 Apr 2023 16:13:25 | ARI 5 ppb (NO 0.05) |
| 23A0206-13   | 0.8163        | PPB   | 06 Apr 2023 16:15:46 | ARI 5 ppb (NO 0.05) |
| 23A0206-14   | 0.4115        | PPB   | 06 Apr 2023 16:18:05 | ARI 5 ppb (NO 0.05) |
| SEQ-CCV      | 99.4% 3.9769  | PPB ✓ | 06 Apr 2023 16:20:25 | ARI 5 ppb (NO 0.05) |
| SEQ-CCB      | -0.0132       | PPB ✓ | 06 Apr 2023 16:22:44 | ARI 5 ppb (NO 0.05) |

ARI 5 ppb (NO 0.05)

Linear



A= 0.0000e+000

B= 1.6934e-004

C= -1.7179e-002

Rho= 0.9999635

Accept=Accepted

Accepted Date=

04/06/23 10:50

| Std ID             | Conc. | Calc.  | Dev.   | Mean  | SD or %RSD | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 |
|--------------------|-------|--------|--------|-------|------------|-------|-------|-------|-------|-------|
| SEQ-CAL1 - Blank   | 0.000 | -0.005 | -0.005 | 71    | 2.449      | 68    | 74    | 71    |       |       |
| SEQ-CAL2 - 0.1 PPB | 0.100 | 0.095  | -0.005 | 663   | 1.1 %      | 661   | 656   | 673   |       |       |
| SEQ-CAL3 - 0.5 PPB | 0.500 | 0.494  | -0.006 | 3021  | 1.2 %      | 2976  | 3022  | 3067  |       |       |
| SEQ-CAL4 - 1.0 PPB | 1.000 | 0.994  | -0.006 | 5974  | 0.9 %      | 5902  | 5994  | 6026  |       |       |
| SEQ-CAL5 - 2.0 PPB | 2.000 | 2.033  | 0.033  | 12105 | 0.6 %      | 12003 | 12128 | 12184 |       |       |
| SEQ-CAL6 - 5.0 PPB | 5.000 | 4.988  | -0.012 | 29560 | 0.6 %      | 29404 | 29830 | 29447 |       |       |



# Mercury Analysis Log

Analyst: ML  
 Instrument: HYDRA

Date: 04/06/23  
 Page: 1 of 4

| ARI Sample ID | Prep Code | Dilution | QC Data (ppb) | Comments  |
|---------------|-----------|----------|---------------|-----------|
| SEQ -C011     | Smm       | 1X       |               |           |
| -C012         |           |          |               |           |
| -C013         |           |          |               |           |
| -C014         |           |          |               |           |
| -C015         |           |          |               |           |
| -C016         |           |          |               |           |
| -ICV          |           |          | 4.04          |           |
| -ICB          |           |          | -0.012        |           |
| -CRL          |           |          | 0.089         |           |
| -CCV          |           |          | 4.08          |           |
| ↓ -C03        |           |          | -0.014        |           |
| BLD0031 -B1K1 |           |          |               |           |
| ↓ -B51        |           |          | ✓ 1.843       | 92.1 J.R  |
| SEQ -CCV      |           |          | ✓ 4.04        |           |
| -C03          |           |          | ✓ -0.012      |           |
| -C04          |           |          | ✓ 4.02        |           |
| ↓ -C03        |           |          | ✓ -0.011      |           |
| 23A0157 -01   |           |          |               |           |
| BLD0031 -DUP1 |           |          |               |           |
| -M51          |           |          | ✗ 0.755       | 35.5 J.R  |
| ↓ -M5D1       |           |          | ✓ 1.527       | 112.7 J.R |
| 23A0157 -03   |           |          |               |           |
| -06           |           |          |               |           |
| -07           |           |          |               |           |
| -08           |           |          |               |           |
| -09           |           |          |               |           |
| ↓ -10         |           |          |               |           |
| SEQ -CCV      |           |          | ✓ 4.07        |           |
| ↓ -C03        |           |          | ✓ -0.013      |           |
| 23A0157 -11   |           |          |               |           |

Chemical/Reagent ID:  
 10% SnCl<sub>2</sub>: L3565

14% NH<sub>2</sub>OH/NaCl: L3351

Standard ID:  
 Standard: L3630 - L3635

ICV/CCV: L3627

### Mercury Analysis Log

Analyst:           

Date:           

Instrument:           

Page: 2 of 4

| ARI Sample ID | Prep Code | Dilution | QC Data (ppb) | Comments |
|---------------|-----------|----------|---------------|----------|
| ↓ -12         |           |          |               |          |
| ↓ -13         |           |          |               |          |
| 23A0158 -04   |           |          |               |          |
| ↓ -05         |           |          |               |          |
| ↓ -06         |           |          |               |          |
| ↓ -07         |           |          |               |          |
| ↓ -08         |           |          |               |          |
| ↓ -09         |           |          |               |          |
| ↓ -10         |           |          |               |          |
| SEA -CCV      |           |          | √ 3.57        |          |
| ↓ -CCB        |           |          | √ -0.018      |          |
| 73A0158 -11   |           |          |               |          |
| ↓ -12         |           |          |               |          |
| ↓ -13         |           |          |               |          |
| BLD0031 -PS1  |           |          | √ 1.243       | 84.3 IR  |
| BLD0056 -BIK1 |           |          |               |          |
| ↓ -BS1        |           |          | √ 1.779       | 88.9 IR  |
| 23A0179 -01   |           |          |               |          |
| BLD0056 -DVP1 |           |          |               |          |
| ↓ -MS1        |           |          | √ 1.215       | 90.8 IR  |
| ↓ -MSD1       |           |          | √ 1.192       | 88.4 IR  |
| SEA -CCV      |           |          | √ 3.91        |          |
| ↓ -CCB        |           |          | √ -0.014      |          |
| 23A0158 -14   |           |          |               |          |
| ↓ -15         |           |          |               |          |
| ↓ -16         |           |          |               |          |
| 23A0179 -02   |           |          |               |          |
| ↓ -03         |           |          |               |          |
| ↓ -04         |           |          |               |          |
| ↓ -05         |           |          |               |          |

Chemical/Reagent ID:  
10% SnCl<sub>2</sub>:           

14% NH<sub>2</sub>OH/NaCl:           

Standard ID:  
Standard:           

ICV/CCV:

### Mercury Analysis Log

Analyst:             
 Instrument:           

Date:             
 Page: 3 of 4

| ARI Sample ID             | Prep Code | Dilution | QC Data (ppb) | Comments  |
|---------------------------|-----------|----------|---------------|-----------|
| -06                       |           |          |               |           |
| ↓          -07            |           |          |               |           |
| ↓          -08            |           |          |               |           |
| SEA          -CCV         |           |          | √3.99         |           |
| ↓          -CCB           |           |          | √-0.012       |           |
| 23A0179 -09               |           |          |               |           |
| -10                       |           |          |               |           |
| ↓          -11            |           |          |               |           |
| ↓          -12            |           |          |               |           |
| 23A0180-01- <del>13</del> |           |          |               |           |
| -02                       |           |          |               |           |
| ↓          -03            |           |          |               |           |
| ↓          -04            |           |          |               |           |
| BLD0124 -B1K1             |           |          |               |           |
| ↓          -B31           |           |          | √1.835        | 91.7%R    |
| SEA          -CCV         |           |          | √4.06         |           |
| ↓          -CCB           |           |          | √-0.012       |           |
| 23A0206 -01               |           |          |               |           |
| BLD0124 -DVP1             |           |          |               | RPD=28.95 |
| -MS1                      |           |          | √1.564        | 108.5%R   |
| ↓          -MSD1          |           |          | √1.526        | 104.8%R   |
| 23A0206 -02               |           |          |               |           |
| -03                       |           |          |               |           |
| -04                       |           |          |               |           |
| -05                       |           |          |               |           |
| -06                       |           |          |               |           |
| ↓          -07            |           |          |               |           |
| SEA          -CCV         |           |          | √4.04         |           |
| -CCB                      |           |          | √-0.012       |           |
| 23A0206 -08               |           |          |               |           |

Chemical/Reagent ID:  
 10% SnCl<sub>2</sub>:             
 Standard ID:             
 Standard:           

14% NH<sub>2</sub>OH/NaCl:             
 ICV/CCV:

# Mercury Analysis Log

Analyst:           -            
 Instrument:           -          

Date:           -            
 Page:   4   of   4  

| ARI Sample ID      | Prep Code | Dilution | QC Data (ppb) | Comments |
|--------------------|-----------|----------|---------------|----------|
| -09                |           |          |               |          |
| -10                |           |          |               |          |
| -11                |           |          |               |          |
| -12                |           |          |               |          |
| -13                |           |          |               |          |
| ↓ -14              |           |          |               |          |
| SEA ↓ -CCV         |           |          | √ 3.97        |          |
| ↓ -CCB             | ↓         | ↓        | √ -0.013      |          |
| <i>MI 04106123</i> |           |          |               |          |
|                    |           |          |               |          |
|                    |           |          |               |          |
|                    |           |          |               |          |
|                    |           |          |               |          |
|                    |           |          |               |          |
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|                    |           |          |               |          |
|                    |           |          |               |          |
|                    |           |          |               |          |
|                    |           |          |               |          |
|                    |           |          |               |          |

Chemical/Reagent ID:  
 10% SnCl<sub>2</sub>:           -            
 Standard ID:           -            
 Standard:           -          

14% NH<sub>2</sub>OH/NaCl:           -            
 ICV/CCV:           -



**INITIAL AND CONTINUING  
CALIBRATION CHECK  
EPA 7471B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: HYDRA

Calibration: GD00018

Control Limit: +/- 20.00%

Sequence: SLD0102

| Lab Sample ID | Analyte | True      | Found   | %R   | Units | Method    |
|---------------|---------|-----------|---------|------|-------|-----------|
| SLD0102-ICV1  | Mercury | 0.0040000 | 0.00405 | 101  | mg/L  | EPA 7471B |
| SLD0102-CCV1  | Mercury | 0.0040000 | 0.00409 | 102  | mg/L  | EPA 7471B |
| SLD0102-CCV2  | Mercury | 0.0040000 | 0.00404 | 101  | mg/L  | EPA 7471B |
| SLD0102-CCV3  | Mercury | 0.0040000 | 0.00403 | 101  | mg/L  | EPA 7471B |
| SLD0102-CCV4  | Mercury | 0.0040000 | 0.00407 | 102  | mg/L  | EPA 7471B |
| SLD0102-CCV5  | Mercury | 0.0040000 | 0.00357 | 89.3 | mg/L  | EPA 7471B |
| SLD0102-CCV6  | Mercury | 0.0040000 | 0.00392 | 97.9 | mg/L  | EPA 7471B |
| SLD0102-CCV7  | Mercury | 0.0040000 | 0.00400 | 100  | mg/L  | EPA 7471B |
| SLD0102-CCV8  | Mercury | 0.0040000 | 0.00407 | 102  | mg/L  | EPA 7471B |
| SLD0102-CCV9  | Mercury | 0.0040000 | 0.00405 | 101  | mg/L  | EPA 7471B |
| SLD0102-CCVA  | Mercury | 0.0040000 | 0.00398 | 99.4 | mg/L  | EPA 7471B |

\* Values outside of QC limits



**INSTRUMENT BLANKS**  
**EPA 7471B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: HYDRA

Calibration: GD00018

Sequence: SLD0102

Date Analyzed: 04/06/23 11:07

| Lab Sample ID | Analyte | Found     | MDL      | MRL      | Units | C |
|---------------|---------|-----------|----------|----------|-------|---|
| SLD0102-ICB1  | Mercury | -0.000012 | 0.000021 | 0.000100 | mg/L  |   |
| SLD0102-CCB1  | Mercury | -0.000014 | 0.000021 | 0.000100 | mg/L  |   |
| SLD0102-CCB2  | Mercury | -0.000013 | 0.000021 | 0.000100 | mg/L  |   |
| SLD0102-CCB3  | Mercury | -0.000012 | 0.000021 | 0.000100 | mg/L  |   |
| SLD0102-CCB4  | Mercury | -0.000013 | 0.000021 | 0.000100 | mg/L  |   |
| SLD0102-CCB5  | Mercury | -0.000019 | 0.000021 | 0.000100 | mg/L  |   |
| SLD0102-CCB6  | Mercury | -0.000014 | 0.000021 | 0.000100 | mg/L  |   |
| SLD0102-CCB7  | Mercury | -0.000013 | 0.000021 | 0.000100 | mg/L  |   |
| SLD0102-CCB8  | Mercury | -0.000013 | 0.000021 | 0.000100 | mg/L  |   |
| SLD0102-CCB9  | Mercury | -0.000012 | 0.000021 | 0.000100 | mg/L  |   |
| SLD0102-CCBA  | Mercury | -0.000013 | 0.000021 | 0.000100 | mg/L  |   |



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 7471B

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0102

Instrument: HYDRA

Calibration: GD00018

| Sample Name         | Lab Sample ID | Lab File ID      | Matrix | Analysis Date/Time |
|---------------------|---------------|------------------|--------|--------------------|
| Cal Standard        | SLD0102-CAL1  | SMM 04-06-23-001 | NA     | 04/06/23 10:35     |
| Cal Standard        | SLD0102-CAL2  | SMM 04-06-23-002 | NA     | 04/06/23 10:37     |
| Cal Standard        | SLD0102-CAL3  | SMM 04-06-23-003 | NA     | 04/06/23 10:40     |
| Cal Standard        | SLD0102-CAL4  | SMM 04-06-23-004 | NA     | 04/06/23 10:42     |
| Cal Standard        | SLD0102-CAL5  | SMM 04-06-23-005 | NA     | 04/06/23 10:45     |
| Cal Standard        | SLD0102-CAL6  | SMM 04-06-23-006 | NA     | 04/06/23 10:47     |
| Initial Cal Check   | SLD0102-ICV1  | SMM 04-06-23-007 | NA     | 04/06/23 11:04     |
| Initial Cal Blank   | SLD0102-ICB1  | SMM 04-06-23-008 | NA     | 04/06/23 11:07     |
| Instrument RL Check | SLD0102-CRL1  | SMM 04-06-23-009 | NA     | 04/06/23 11:09     |
| Calibration Check   | SLD0102-CCV1  | SMM 04-06-23-010 | NA     | 04/06/23 11:11     |
| Calibration Blank   | SLD0102-CCB1  | SMM 04-06-23-011 | NA     | 04/06/23 11:14     |
| Calibration Check   | SLD0102-CCV2  | SMM 04-06-23-014 | NA     | 04/06/23 11:21     |
| Calibration Blank   | SLD0102-CCB2  | SMM 04-06-23-015 | NA     | 04/06/23 11:23     |
| Calibration Check   | SLD0102-CCV3  | SMM 04-06-23-016 | NA     | 04/06/23 13:11     |
| Calibration Blank   | SLD0102-CCB3  | SMM 04-06-23-017 | NA     | 04/06/23 13:13     |
| Calibration Check   | SLD0102-CCV4  | SMM 04-06-23-028 | NA     | 04/06/23 13:39     |
| Calibration Blank   | SLD0102-CCB4  | SMM 04-06-23-029 | NA     | 04/06/23 13:41     |
| Calibration Check   | SLD0102-CCV5  | SMM 04-06-23-040 | NA     | 04/06/23 14:07     |
| Calibration Blank   | SLD0102-CCB5  | SMM 04-06-23-041 | NA     | 04/06/23 14:09     |
| Blank               | BLD0056-BLK1  | SMM 04-06-23-046 | Solid  | 04/06/23 14:21     |
| LCS                 | BLD0056-BS1   | SMM 04-06-23-047 | Solid  | 04/06/23 14:23     |
| LDW23-SS1277        | 23A0179-01    | SMM 04-06-23-048 | Solid  | 04/06/23 14:26     |
| LDW23-SS1277        | BLD0056-DUP1  | SMM 04-06-23-049 | Solid  | 04/06/23 14:28     |
| LDW23-SS1277        | BLD0056-MS1   | SMM 04-06-23-050 | Solid  | 04/06/23 14:30     |
| LDW23-SS1277        | BLD0056-MSD1  | SMM 04-06-23-051 | Solid  | 04/06/23 14:33     |
| Calibration Check   | SLD0102-CCV6  | SMM 04-06-23-052 | NA     | 04/06/23 14:35     |
| Calibration Blank   | SLD0102-CCB6  | SMM 04-06-23-053 | NA     | 04/06/23 14:37     |
| LDW23-SS1271        | 23A0179-02    | SMM 04-06-23-057 | Solid  | 04/06/23 14:47     |
| LDW23-SS1266        | 23A0179-03    | SMM 04-06-23-058 | Solid  | 04/06/23 14:49     |



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 7471B

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0102

Instrument: HYDRA

Calibration: GD00018

| Sample Name       | Lab Sample ID | Lab File ID      | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| LDW23-SS1248      | 23A0179-04    | SMM 04-06-23-059 | Solid  | 04/06/23 14:51     |
| LDW23-SS1239      | 23A0179-05    | SMM 04-06-23-060 | Solid  | 04/06/23 14:54     |
| LDW23-SS1213      | 23A0179-06    | SMM 04-06-23-061 | Solid  | 04/06/23 14:56     |
| LDW23-SS1200      | 23A0179-07    | SMM 04-06-23-062 | Solid  | 04/06/23 14:58     |
| LDW23-SS1178      | 23A0179-08    | SMM 04-06-23-063 | Solid  | 04/06/23 15:01     |
| Calibration Check | SLD0102-CCV7  | SMM 04-06-23-064 | NA     | 04/06/23 15:03     |
| Calibration Blank | SLD0102-CCB7  | SMM 04-06-23-065 | NA     | 04/06/23 15:05     |
| LDW23-SS1171      | 23A0179-09    | SMM 04-06-23-066 | Solid  | 04/06/23 15:08     |
| LDW23-SS1112      | 23A0179-10    | SMM 04-06-23-067 | Solid  | 04/06/23 15:10     |
| LDW23-SS1039      | 23A0179-11    | SMM 04-06-23-068 | Solid  | 04/06/23 15:12     |
| LDW23-SS1007      | 23A0179-12    | SMM 04-06-23-069 | Solid  | 04/06/23 15:15     |
| Calibration Check | SLD0102-CCV8  | SMM 04-06-23-076 | NA     | 04/06/23 15:31     |
| Calibration Blank | SLD0102-CCB8  | SMM 04-06-23-077 | NA     | 04/06/23 15:33     |
| Calibration Check | SLD0102-CCV9  | SMM 04-06-23-088 | NA     | 04/06/23 15:59     |
| Calibration Blank | SLD0102-CCB9  | SMM 04-06-23-089 | NA     | 04/06/23 16:01     |
| Calibration Check | SLD0102-CCVA  | SMM 04-06-23-097 | NA     | 04/06/23 16:20     |
| Calibration Blank | SLD0102-CCBA  | SMM 04-06-23-098 | NA     | 04/06/23 16:22     |





**DETECTION LEVEL STANDARD**  
**EPA 7471B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: HYDRA

Calibration: GD00018

Sequence: SLD0102

Lab Sample ID: SLD0102-CRL1

| Analyte | True     | Found    | %R   | Units | QC Limits |
|---------|----------|----------|------|-------|-----------|
| Mercury | 0.000100 | 0.000089 | 89.2 | mg/L  | 70 - 130  |

\* Values outside of QC limits



## HOLDING TIME SUMMARY

**Analysis: EPA 7471B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

| Sample Name                      | Date Collected    | Date Received     | Date Prepared     | Days to Prep | Max Days to Prep | Date Analyzed     | Days to Analysis | Max Days to Analysis | Q |
|----------------------------------|-------------------|-------------------|-------------------|--------------|------------------|-------------------|------------------|----------------------|---|
| LDW23-SS1277<br>23A0179-01       | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 04/05/23<br>16:24 | 85           | 180              | 04/06/23<br>14:26 | 86               | 180                  |   |
| LDW23-SS1271<br>23A0179-02       | 01/10/23<br>08:43 | 01/10/23<br>17:10 | 04/05/23<br>16:24 | 85           | 180              | 04/06/23<br>14:47 | 86               | 180                  |   |
| LDW23-SS1266<br>23A0179-03       | 01/10/23<br>09:04 | 01/10/23<br>17:10 | 04/05/23<br>16:24 | 85           | 180              | 04/06/23<br>14:49 | 86               | 180                  |   |
| LDW23-SS1248<br>23A0179-04       | 01/10/23<br>09:20 | 01/10/23<br>17:10 | 04/05/23<br>16:24 | 85           | 180              | 04/06/23<br>14:51 | 86               | 180                  |   |
| LDW23-SS1239<br>23A0179-05       | 01/10/23<br>09:35 | 01/10/23<br>17:10 | 04/05/23<br>16:24 | 85           | 180              | 04/06/23<br>14:54 | 86               | 180                  |   |
| LDW23-SS1213<br>23A0179-06       | 01/10/23<br>09:54 | 01/10/23<br>17:10 | 04/05/23<br>16:24 | 85           | 180              | 04/06/23<br>14:56 | 86               | 180                  |   |
| LDW23-SS1200<br>23A0179-07       | 01/10/23<br>10:10 | 01/10/23<br>17:10 | 04/05/23<br>16:24 | 85           | 180              | 04/06/23<br>14:58 | 86               | 180                  |   |
| LDW23-SS1178<br>23A0179-08       | 01/10/23<br>10:56 | 01/10/23<br>17:10 | 04/05/23<br>16:24 | 85           | 180              | 04/06/23<br>15:01 | 86               | 180                  |   |
| LDW23-SS1171<br>23A0179-09       | 01/10/23<br>11:08 | 01/10/23<br>17:10 | 04/05/23<br>16:24 | 85           | 180              | 04/06/23<br>15:08 | 86               | 180                  |   |
| LDW23-SS1112<br>23A0179-10       | 01/10/23<br>11:28 | 01/10/23<br>17:10 | 04/05/23<br>16:24 | 85           | 180              | 04/06/23<br>15:10 | 86               | 180                  |   |
| LDW23-SS1039<br>23A0179-11       | 01/10/23<br>11:56 | 01/10/23<br>17:10 | 04/05/23<br>16:24 | 85           | 180              | 04/06/23<br>15:12 | 86               | 180                  |   |
| LDW23-SS1007<br>23A0179-12       | 01/10/23<br>12:48 | 01/10/23<br>17:10 | 04/05/23<br>16:24 | 85           | 180              | 04/06/23<br>15:15 | 86               | 180                  |   |
| Duplicate<br>BLD0056-DUP1        | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 04/05/23<br>16:24 | 85           | 180              | 04/06/23<br>14:28 | 86               | 180                  |   |
| Matrix Spike<br>BLD0056-MS1      | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 04/05/23<br>16:24 | 85           | 180              | 04/06/23<br>14:30 | 86               | 180                  |   |
| Matrix Spike Dup<br>BLD0056-MSD1 | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 04/05/23<br>16:24 | 85           | 180              | 04/06/23<br>14:33 | 86               | 180                  |   |

\* Indicates hold time exceedance.



**Analytical Resources, LLC**  
Analytical Chemists and Consultants

**METHOD DETECTION  
AND REPORTING LIMITS**

**EPA 7471B**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Instrument: HYDRA

| <b>Analyte</b> | <b>MDL</b> | <b>RL</b> | <b>Units</b> |
|----------------|------------|-----------|--------------|
| Mercury        | 0.00525    | 0.0250    | mg/kg        |

300 Technology Drive  
Christiansburg, VA 24073 USA  
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F: 540-585-3012  
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGHG1  
Lot Number: S2-HG711246  
Matrix: 5% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 1 000 µg/mL ea:  
Mercury  
Starting Material: Hg Metal  
Starting Material Lot#: 1959  
Starting Material Purity: 99.9993%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 1000 ± 3 µg/mL  
**Density:** 1.026 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                        |   |
|------------------------|---|
| <b>Assay Method #1</b> | <b>1004 ± 6 µg/mL</b><br>ICP Assay NIST SRM 3133 Lot Number: 160921   |
| <b>Assay Method #2</b> | <b>998 ± 3 µg/mL</b><br>EDTA NIST SRM 928 Lot Number: 928             |
| <b>Assay Method #3</b> | <b>1001 ± 3 µg/mL</b><br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method  $i$  with standard uncertainty  $u_{char\ i}$

$w_i$  = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$  where  $u_{char\ i}$  are the errors from each characterization method

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

$X_a$  = mean of Assay Method A with

$u_{char\ a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

$u_{char\ a}$  = the errors from characterization

$u_{bb}$  = bottle to bottle homogeneity standard uncertainty

$u_{lts}$  = long term stability standard uncertainty (storage)

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ( $\mu\text{g/mL}$ )

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3  $\mu\text{m}$ .

|                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000210 | M Eu < 0.000210 | O Na < 0.000626 | M Se < 0.008100 | M Zn < 0.000810 |
| M Al < 0.000161 | O Fe < 0.001600 | M Nb < 0.000410 | O Si < 0.000626 | M Zr < 0.000410 |
| M As < 0.002500 | M Ga < 0.000210 | M Nd < 0.000210 | M Sm < 0.000210 |                 |
| O Au < 0.001700 | M Gd < 0.000210 | O Ni < 0.001400 | M Sn < 0.000410 |                 |
| M B < 0.008500  | M Ge < 0.000410 | M Os < 0.003900 | O Sr < 0.000110 |                 |
| M Ba < 0.000210 | M Hf < 0.000210 | O P < 0.029000  | M Ta < 0.000210 |                 |
| O Be < 0.000110 | s Hg < 0.000210 | M Pb < 0.000210 | M Tb < 0.000210 |                 |
| M Bi < 0.001100 | M Ho < 0.000210 | M Pd < 0.003500 | M Te < 0.005700 |                 |
| O Ca < 0.004754 | M In < 0.000210 | M Pr < 0.000210 | M Th < 0.000210 |                 |
| M Cd < 0.000210 | M Ir < 0.000210 | M Pt < 0.000210 | O Ti < 0.000430 |                 |
| M Ce < 0.000210 | O K < 0.000731  | M Rb < 0.000210 | O Tl < 0.005400 |                 |
| M Co < 0.000210 | M La < 0.000210 | M Re < 0.000210 | M Tm < 0.000210 |                 |
| O Cr < 0.003300 | O Li < 0.000110 | M Rh < 0.001100 | M U < 0.000410  |                 |
| M Cs < 0.000410 | M Lu < 0.000210 | M Ru < 0.000810 | M V < 0.000210  |                 |
| M Cu < 0.000810 | O Mg < 0.000104 | O S < 0.022000  | M W < 0.001100  |                 |
| M Dy < 0.000210 | O Mn < 0.000430 | M Sb < 0.000210 | M Y < 0.000210  |                 |
| M Er < 0.000210 | M Mo < 0.000210 | M Sc < 0.000210 | M Yb < 0.000210 |                 |

M - Checked by ICP-MS    O - Checked by ICP-OES    i - Spectral Interference  
n - Not Checked For    s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 200.59 +2 4 Hg(OH)(aq) 1+  
**Chemical Compatibility** - Stable in HNO<sub>3</sub>. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

**Stability** - 2-100 ppb levels not stable in 1% HNO<sub>3</sub> / LDPE container, stable in 10% HNO<sub>3</sub> packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO<sub>3</sub> packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO<sub>3</sub> / LDPE container.

**Hg Containing Samples (Preparation and Solution)** - Metal (soluble in HNO<sub>3</sub>); Oxide (Soluble in HNO<sub>3</sub>); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line     | Estimated D.L.     | Order | Interferences (underlined indicates severe) |
|--------------------|--------------------|-------|---|
| ICP-MS 202 amu     | 9 ppt              | n/a   | 186W16O                                     |
| ICP-OES 184.950 nm | 0.03 / 0.005 µg/mL | 1     |   |
| ICP-OES 194.227 nm | 0.03 / 0.005 µg/mL | 1     | V   |
| ICP-OES 253.652 nm | 0.1 / 0.03 µg/mL   | 1     | Ta, Co, Th ,Rh , Fe,<br>U                   |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

November 18, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

- **November 18, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

**12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS**

**Certificate Prepared By:**

Uyen Truong  
Supervisor, Product Documentation



**Certificate Approved By:**

Michael Booth  
Director, Technical



**Certifying Officer:**

Paul Gaines  
Chairman / Senior Technical Director



**1.0 ACCREDITATION / REGISTRATION**

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



**2.0 PRODUCT DESCRIPTION**

Product Code: Multi Analyte Custom Grade Solution  
 Catalog Number: QCP-QCS-4  
 Lot Number: R2-MEB695951  
 Matrix: 7% (v/v) HNO3  
 Value / Analyte(s): 5 µg/mL ea:  
 Mercury

**Second Source:** Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

| ANALYTE     | CERTIFIED VALUE     | ANALYTE | CERTIFIED VALUE |
|-------------|---------------------|---------|-----------------|
| Mercury, Hg | 5.011 ± 0.023 µg/mL |         |                 |

**Density:** 1.035 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| ANALYTE | METHOD     | NIST SRM# | SRM LOT#     |
|---------|------------|-----------|--------------|
| Hg      | ICP Assay  | 3133      | 061204       |
| Hg      | EDTA       | 928       | 928          |
| Hg      | Calculated |           | See Sec. 4.2 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

**Characterization of CRM/RM by Two or More Methods**

Certified Value,  $X_{CRM/RM}$ , where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

$X_i$  = mean of Assay Method i with standard uncertainty  $u_{char i}$   
 $w_i$  = the weighting factors for each method calculated using the inverse square of the variance:  
 $w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k(u^2_{char} + u^2_{bb} + u^2_{Its} + u^2_{ts})^{1/2}$$

k = coverage factor = 2  
 $u_{char}$  =  $[\sum(w_i)^2(u_{char i})^2]^{1/2}$  where  $u_{char i}$  are the errors from each characterization method  
 $u_{bb}$  = bottle to bottle homogeneity standard uncertainty  
 $u_{Its}$  = long term stability standard uncertainty (storage)  
 $u_{ts}$  = transport stability standard uncertainty

**Characterization of CRM/RM by One Method**

Certified Value,  $X_{CRM/RM}$ , where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a)(u_{char a})$$

$X_a$  = mean of Assay Method A with  
 $u_{char a}$  = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k(u^2_{char a} + u^2_{bb} + u^2_{Its} + u^2_{ts})^{1/2}$$

k = coverage factor = 2  
 $u_{char a}$  = the errors from characterization  
 $u_{bb}$  = bottle to bottle homogeneity standard uncertainty  
 $u_{Its}$  = long term stability standard uncertainty (storage)  
 $u_{ts}$  = transport stability standard uncertainty



#### **4.0 TRACEABILITY TO NIST**

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

##### **4.1 Thermometer Calibration**

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

##### **4.2 Balance Calibration**

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

##### **4.3 Glassware Calibration**

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

#### **5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)**

N/A

#### **6.0 INTENDED USE**

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

#### **7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL**

##### **7.1 Storage and Handling Recommendations**

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

#### **8.0 HAZARDOUS INFORMATION**

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

#### **9.0 HOMOGENEITY**

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

#### **10.0 QUALITY STANDARD DOCUMENTATION**

##### **10.1 ISO 9001 Quality Management System Registration**

- QSR Certificate Number QSR-1034

##### **10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"**

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

August 20, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

### 11.2 Lot Expiration Date

- **August 20, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: \_\_\_\_\_

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

### Certificate Approved By:

Michael Booth  
Director, Quality Control



### Certifying Officer:

Paul Gaines  
Chairman / Senior Technical Director





**Form I**  
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**SM 2540 G-97**

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| LDW23-SS1277 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment      Laboratory ID: 23A0179-01 D      SDG: 23A0179

Sampled: 01/10/23 08:24      Prepared: 01/11/23 10:29      File ID:

% Solids: 56.80      Preparation: No Prep Wet Chem      Analyzed: 01/11/23 10:33

Batch: BLA0250      Sequence:      Initial/Final: 5 g Wet / 5 g

Instrument: BAL2      Calibration:

| CAS NO. | Analyte      | Concentration (%) | Dilution Factor | MDL  | MRL  | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
|         | Total Solids | 56.80             | 1               | 0.04 | 0.04 |   |



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| LDW23-SS1271 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment      Laboratory ID: 23A0179-02 D      SDG: 23A0179

Sampled: 01/10/23 08:43      Prepared: 01/11/23 10:29      File ID:

% Solids: 64.44      Preparation: No Prep Wet Chem      Analyzed: 01/11/23 10:33

Batch: BLA0250      Sequence:

Instrument: BAL2      Calibration: 5 g Wet / 5 g

| CAS NO. | Analyte      | Concentration (%) | Dilution Factor | MDL  | MRL  | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
|         | Total Solids | 64.44             | 1               | 0.04 | 0.04 |   |



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| LDW23-SS1266 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment      Laboratory ID: 23A0179-03 D      SDG: 23A0179

Sampled: 01/10/23 09:04      Prepared: 01/11/23 10:29      File ID:

% Solids: 55.75      Preparation: No Prep Wet Chem      Analyzed: 01/11/23 10:33

Batch: BLA0250      Sequence:

Instrument: BAL2      Calibration: 5 g Wet / 5 g

| CAS NO. | Analyte      | Concentration (%) | Dilution Factor | MDL  | MRL  | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
|         | Total Solids | 55.75             | 1               | 0.04 | 0.04 |   |



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| LDW23-SS1248 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment      Laboratory ID: 23A0179-04 D      SDG: 23A0179

Sampled: 01/10/23 09:20      Prepared: 01/11/23 10:29      File ID:

% Solids: 54.20      Preparation: No Prep Wet Chem      Analyzed: 01/11/23 10:33

Batch: BLA0250      Sequence:

Instrument: BAL2      Calibration: 5 g Wet / 5 g

| CAS NO. | Analyte      | Concentration (%) | Dilution Factor | MDL  | MRL  | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
|         | Total Solids | 54.20             | 1               | 0.04 | 0.04 |   |



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| <b>LDW23-SS1239</b> |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment      Laboratory ID: 23A0179-05 D      SDG: 23A0179

Sampled: 01/10/23 09:35      Prepared: 01/11/23 10:29      File ID:

% Solids: 65.08      Preparation: No Prep Wet Chem      Analyzed: 01/11/23 10:33

Batch: BLA0250      Sequence:

Instrument: BAL2      Calibration: 5 g Wet / 5 g

| CAS NO. | Analyte      | Concentration (%) | Dilution Factor | MDL  | MRL  | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
|         | Total Solids | 65.08             | 1               | 0.04 | 0.04 |   |



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| LDW23-SS1213 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment      Laboratory ID: 23A0179-06 D      SDG: 23A0179

Sampled: 01/10/23 09:54      Prepared: 01/11/23 10:29      File ID:

% Solids: 50.11      Preparation: No Prep Wet Chem      Analyzed: 01/11/23 10:33

Batch: BLA0250      Sequence:

Instrument: BAL2      Calibration: 5 g Wet / 5 g

| CAS NO. | Analyte      | Concentration (%) | Dilution Factor | MDL  | MRL  | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
|         | Total Solids | 50.11             | 1               | 0.04 | 0.04 |   |





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| <b>LDW23-SS1200</b> |
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Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-07 D      SDG: 23A0179  
 Sampled: 01/10/23 10:10      Prepared: 01/11/23 10:29      File ID:  
 % Solids: 67.54      Preparation: No Prep Wet Chem      Analyzed: 01/11/23 10:33  
 Batch: BLA0250      Sequence:  
 Instrument: BAL2      Calibration:

| CAS NO. | Analyte      | Concentration (%) | Dilution Factor | MDL  | MRL  | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
|         | Total Solids | 67.54             | 1               | 0.04 | 0.04 |   |



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| LDW23-SS1178 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment      Laboratory ID: 23A0179-08 D      SDG: 23A0179

Sampled: 01/10/23 10:56      Prepared: 01/11/23 10:29      File ID:

% Solids: 59.76      Preparation: No Prep Wet Chem      Analyzed: 01/11/23 10:33

Batch: BLA0250      Sequence:

Instrument: BAL2      Calibration: 5 g Wet / 5 g

| CAS NO. | Analyte      | Concentration (%) | Dilution Factor | MDL  | MRL  | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
|         | Total Solids | 59.76             | 1               | 0.04 | 0.04 |   |



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| LDW23-SS1171 |
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Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-09 D      SDG: 23A0179  
 Sampled: 01/10/23 11:08      Prepared: 01/11/23 10:29      File ID:  
 % Solids: 50.25      Preparation: No Prep Wet Chem      Analyzed: 01/11/23 10:33  
 Batch: BLA0250      Sequence:  
 Instrument: BAL2      Calibration:

| CAS NO. | Analyte      | Concentration (%) | Dilution Factor | MDL  | MRL  | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
|         | Total Solids | 50.25             | 1               | 0.04 | 0.04 |   |



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| LDW23-SS1112 |
|--------------|

Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment      Laboratory ID: 23A0179-10 D      SDG: 23A0179

Sampled: 01/10/23 11:28      Prepared: 01/11/23 10:29      File ID:

% Solids: 45.71      Preparation: No Prep Wet Chem      Analyzed: 01/11/23 10:33

Batch: BLA0250      Sequence:

Instrument: BAL2      Calibration: 5 g Wet / 5 g

| CAS NO. | Analyte      | Concentration (%) | Dilution Factor | MDL  | MRL  | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
|         | Total Solids | 45.71             | 1               | 0.04 | 0.04 |   |



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|                     |
|---------------------|
| <b>LDW23-SS1039</b> |
|---------------------|

Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment      Laboratory ID: 23A0179-11 D      SDG: 23A0179

Sampled: 01/10/23 11:56      Prepared: 01/11/23 10:29      File ID:

% Solids: 46.16      Preparation: No Prep Wet Chem      Analyzed: 01/11/23 10:33

Batch: BLA0250      Sequence:

Instrument: BAL2      Calibration: 5 g Wet / 5 g

| CAS NO. | Analyte      | Concentration (%) | Dilution Factor | MDL  | MRL  | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
|         | Total Solids | 46.16             | 1               | 0.04 | 0.04 |   |



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**INORGANIC ANALYSIS DATA SHEET**  
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|              |
|--------------|
| LDW23-SS1007 |
|--------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-12 D      SDG: 23A0179  
 Sampled: 01/10/23 12:48      Prepared: 01/11/23 10:29      File ID:  
 % Solids: 46.07      Preparation: No Prep Wet Chem      Analyzed: 01/11/23 10:33  
 Batch: BLA0250      Sequence:  
 Instrument: BAL2      Calibration:

| CAS NO. | Analyte      | Concentration (%) | Dilution Factor | MDL  | MRL  | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
|         | Total Solids | 46.07             | 1               | 0.04 | 0.04 |   |



## PREPARATION BATCH SUMMARY

**SM 2540 G-97**

Laboratory: Analytical Resources, LLC                      SDG: 23A0179  
Client: Anchor QEA, LLC    Project: AOC5 MR Phase 1  
Batch: BLA0250                      Batch Matrix: Solid                      Preparation: No Prep Wet Chem

| SAMPLE NAME  | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED  | OBSERVATIONS |
|--------------|---------------|-------------|----------------|--------------|
| LDW23-SS1277 | 23A0179-01    |             | 01/11/23 10:29 |              |
| LDW23-SS1271 | 23A0179-02    |             | 01/11/23 10:29 |              |
| LDW23-SS1266 | 23A0179-03    |             | 01/11/23 10:29 |              |
| LDW23-SS1248 | 23A0179-04    |             | 01/11/23 10:29 |              |
| LDW23-SS1239 | 23A0179-05    |             | 01/11/23 10:29 |              |
| LDW23-SS1213 | 23A0179-06    |             | 01/11/23 10:29 |              |
| LDW23-SS1200 | 23A0179-07    |             | 01/11/23 10:29 |              |
| LDW23-SS1178 | 23A0179-08    |             | 01/11/23 10:29 |              |
| LDW23-SS1171 | 23A0179-09    |             | 01/11/23 10:29 |              |
| LDW23-SS1112 | 23A0179-10    |             | 01/11/23 10:29 |              |
| LDW23-SS1039 | 23A0179-11    |             | 01/11/23 10:29 |              |
| LDW23-SS1007 | 23A0179-12    |             | 01/11/23 10:29 |              |
| Blank        | BLA0250-BLK1  |             | 01/11/23 10:29 |              |
| LDW23-SS1277 | BLA0250-DUP1  |             | 01/11/23 10:29 |              |
| LDW23-SS1277 | BLA0250-DUP2  |             | 01/11/23 10:29 |              |

| TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET for Solid samples |        |               |   |                     |         |                          |            |        |  |                     | Batch: BLA0250        |       |            |         |     |       |
|--|--------|---------------|---|---------------------|---------|--------------------------|------------|--------|--|---------------------|-----------------------|-------|------------|---------|-----|-------|
| Method: PSEP 1986, SM2540, EPA 160.1                                 |        |               |   |                     |         |                          |            |        |  |                     | Date: 1/11/2023 10:33 |       |            |         |     |       |
| (dry at 104 (12-24 hr) then combust at 550 (30 min))                 |        |               |   |                     |         |                          |            |        |  |                     | Analyst: UW           |       |            |         |     |       |
| Instrumentation  |        |               | Drying Ovens: 12                        |                     |         | Analytical Balance: BAL2 |            |        | Muffle Furnace: 2  |                     |                       |       |            |         |     |       |
| <b>Batch drying time</b>   |        |               | TS (%) calculated as:                   |                     |         | Oven Temps, °C           |            |        | TVS (mg/kg dry wt) calculated as:                        |                     |                       |       |            |         |     |       |
| record times as mm/dd/yy hh:mm                                       |        |               | Final dry wt (g) = (Dry Wt - Tare Wt)   |                     |         | Start Temp 103           |            |        | Final ash wt (g) = (min ash wt - tare wt)                |                     |                       |       |            |         |     |       |
| date/time in oven: 1/11/2023 11:25                                   |        |               | TS = (Final Dry Wt)/(grams Sample-Tare) |                     |         | Dry Cycle 1 103          |            |        | TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000 |                     |                       |       |            |         |     |       |
| date/time out: 1/12/2023 16:00                                       |        |               |   |                     |         | Dry Cycle 2              |            |        | if ash wt > dry wt, "Chk for Err"                        |                     |                       |       |            |         |     |       |
| elapsed hrs = 28.6 > 24 hr   |        |               |   |                     |         | Dry Cycle 3              |            |        | if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000      |                     |                       |       |            |         |     |       |
| <b>Balance Calibration Check</b>                                     |        |               |   |                     |         |                          |            |        |  |                     |                       |       |            |         |     |       |
| Record weights to 4 places   |        |               |   |                     |         |                          |            |        |  |                     | CV-02                 |       |            |         |     |       |
| Cal Weight ID:   |        | CV-02         | CV-02                                   | CV-02               | CV-02   | CV-02                    |            |        |  | CV-02               | CV-02                 | CV-02 |            |         |     |       |
| Date & Time:   |        | 1/11/23 10:35 | 1/11/23 10:47                           | 1/13/23 9:15        |         |                          |            |        |  |                     |                       |       |            |         |     |       |
| Cal Wt (g):  |        | 10.0000       | 10.0000                                 | 10.0000             | 10.0000 |                          |            |        |  |                     |                       |       |            |         |     |       |
|  |        | Cal OK!       | Cal OK!                                 | Cal OK!             |         |                          |            |        |  |                     |                       |       |            |         |     |       |
| Sample ID  | Dish # | Tare Wt. (g)  | Dish & Sample (g)                       | Dry Wt 104C (grams) |         |                          | dry Wt (g) | TS (%) | Notes  | ASH WT 550C (grams) |                       |       | Ash Wt (g) | TVS     |     | Notes |
|  |        |               |   | 1                   | 2       | 3                        |            |        |  | 1                   | 2                     | 3     |            | (mg/kg) | (%) |       |
| BLA0250-BLK1   | 1      | 0.8208        | 0.0000                                  | 0.8207              |         |                          | -0.0001    | 0.01%  |  |                     |                       |       |            |         |     |       |
| 23A0179-01   | 2      | 0.7979        | 6.7253                                  | 4.1648              |         |                          | 3.3669     | 56.80% |  |                     |                       |       |            |         |     |       |
| BLA0250-DUP1   | 3      | 0.8515        | 7.6052                                  | 4.6392              |         |                          | 3.7877     | 56.08% | RPD=1.3  |                     |                       |       |            |         |     |       |
| BLA0250-DUP2   | 4      | 0.8040        | 6.7942                                  | 4.2633              |         |                          | 3.4593     | 57.75% | RSD=1.5  |                     |                       |       |            |         |     |       |
| 23A0179-02   | 5      | 0.7881        | 9.1802                                  | 6.1956              |         |                          | 5.4075     | 64.44% |  |                     |                       |       |            |         |     |       |
| 23A0179-03   | 6      | 0.7923        | 7.4928                                  | 4.5275              |         |                          | 3.7352     | 55.75% |  |                     |                       |       |            |         |     |       |
| 23A0179-04   | 7      | 0.8162        | 7.7122                                  | 4.5538              |         |                          | 3.7376     | 54.20% |  |                     |                       |       |            |         |     |       |
| 23A0179-05   | 8      | 0.7917        | 8.1340                                  | 5.5702              |         |                          | 4.7785     | 65.08% |  |                     |                       |       |            |         |     |       |
| 23A0179-06   | 9      | 0.8142        | 8.1097                                  | 4.4701              |         |                          | 3.6559     | 50.11% |  |                     |                       |       |            |         |     |       |
| 23A0179-07   | 10     | 0.7965        | 7.8411                                  | 5.5542              |         |                          | 4.7577     | 67.54% |  |                     |                       |       |            |         |     |       |
| 23A0179-08   | 11     | 0.8113        | 7.8645                                  | 5.0264              |         |                          | 4.2151     | 59.76% |  |                     |                       |       |            |         |     |       |
| 23A0179-09   | 12     | 0.7887        | 6.5337                                  | 3.6754              |         |                          | 2.8867     | 50.25% |  |                     |                       |       |            |         |     |       |
| 23A0179-10   | 13     | 0.8448        | 7.2868                                  | 3.7892              |         |                          | 2.9444     | 45.71% |  |                     |                       |       |            |         |     |       |
| 23A0179-11   | 14     | 0.7948        | 7.2331                                  | 3.7667              |         |                          | 2.9719     | 46.16% |  |                     |                       |       |            |         |     |       |
| 23A0179-12   | 15     | 0.8196        | 6.9933                                  | 3.6640              |         |                          | 2.8444     | 46.07% |  |                     |                       |       |            |         |     |       |
| 23A0182-01   | 16     | 0.8055        | 9.1487                                  | 7.2509              |         |                          | 6.4454     | 77.25% |  |                     |                       |       |            |         |     |       |
| 23A0182-02   | 17     | 0.8244        | 9.5604                                  | 7.6221              |         |                          | 6.7977     | 77.81% |  |                     |                       |       |            |         |     |       |





Form I  
METHOD BLANK DATA SHEET  
SM 2540 G-97  
TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Batch: BLA0250

Laboratory ID: BLA0250-BLK1

Prepared: 01/11/23 10:29

Matrix: Solid

Preparation: No Prep Wet Chem

Analyzed: 01/11/23 10:33

Sequence:

Calibration:

Instrument: BAL2

| CAS NO. | Analyte      | Concentration (%) | Dilution Factor | MDL  | MRL  | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
|         | Total Solids | ND                | 1               | 0.04 | 0.04 | U |



**DUPLICATES**  
**SM 2540 G-97**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: BLA0250-DUP1

Batch: BLA0250

Lab Source ID: 23A0179-01

Preparation: No Prep Wet Chem

Initial/Final: 5 g / 5 g

Source Sample Name: LDW23-SS1277

% Solids: 56.80

| ANALYTE      | CONTROL LIMIT | SAMPLE CONCENTRATION | DUPLICATE CONCENTRATION | RPD % | Q |
|--------------|---------------|----------------------|-------------------------|-------|---|
| Total Solids | 20            | 56.80                | 56.08                   | 1.27  |   |

\*: Values outside of QC limits

L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD



**DUPLICATES**  
**SM 2540 G-97**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: BLA0250-DUP2

Batch: BLA0250

Lab Source ID: 23A0179-01

Preparation: No Prep Wet Chem

Initial/Final: 5 g / 5 g

Source Sample Name: LDW23-SS1277

% Solids: 56.80

| ANALYTE      | CONTROL LIMIT | SAMPLE CONCENTRATION | DUPLICATE CONCENTRATION | RPD % | Q |
|--------------|---------------|----------------------|-------------------------|-------|---|
| Total Solids | 20            | 56.80                | 57.75                   | 1.65  |   |

\*: Values outside of QC limits

L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD



## HOLDING TIME SUMMARY

Analysis: SM 2540 G-97

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

| Sample Name                | Date Collected    | Date Received     | Date Prepared     | Days to Prep | Max Days to Prep | Date Analyzed     | Days to Analysis | Max Days to Analysis | Q |
|----------------------------|-------------------|-------------------|-------------------|--------------|------------------|-------------------|------------------|----------------------|---|
| LDW23-SS1277<br>23A0179-01 | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 01/11/23<br>10:29 | 1            | 180              | 01/11/23<br>10:33 | 1                | 180                  |   |
| LDW23-SS1271<br>23A0179-02 | 01/10/23<br>08:43 | 01/10/23<br>17:10 | 01/11/23<br>10:29 | 1            | 180              | 01/11/23<br>10:33 | 1                | 180                  |   |
| LDW23-SS1266<br>23A0179-03 | 01/10/23<br>09:04 | 01/10/23<br>17:10 | 01/11/23<br>10:29 | 1            | 180              | 01/11/23<br>10:33 | 1                | 180                  |   |
| LDW23-SS1248<br>23A0179-04 | 01/10/23<br>09:20 | 01/10/23<br>17:10 | 01/11/23<br>10:29 | 1            | 180              | 01/11/23<br>10:33 | 1                | 180                  |   |
| LDW23-SS1239<br>23A0179-05 | 01/10/23<br>09:35 | 01/10/23<br>17:10 | 01/11/23<br>10:29 | 1            | 180              | 01/11/23<br>10:33 | 1                | 180                  |   |
| LDW23-SS1213<br>23A0179-06 | 01/10/23<br>09:54 | 01/10/23<br>17:10 | 01/11/23<br>10:29 | 1            | 180              | 01/11/23<br>10:33 | 1                | 180                  |   |
| LDW23-SS1200<br>23A0179-07 | 01/10/23<br>10:10 | 01/10/23<br>17:10 | 01/11/23<br>10:29 | 1            | 180              | 01/11/23<br>10:33 | 1                | 180                  |   |
| LDW23-SS1178<br>23A0179-08 | 01/10/23<br>10:56 | 01/10/23<br>17:10 | 01/11/23<br>10:29 | 0            | 180              | 01/11/23<br>10:33 | 1                | 180                  |   |
| LDW23-SS1171<br>23A0179-09 | 01/10/23<br>11:08 | 01/10/23<br>17:10 | 01/11/23<br>10:29 | 0            | 180              | 01/11/23<br>10:33 | 1                | 180                  |   |
| LDW23-SS1112<br>23A0179-10 | 01/10/23<br>11:28 | 01/10/23<br>17:10 | 01/11/23<br>10:29 | 0            | 180              | 01/11/23<br>10:33 | 1                | 180                  |   |
| LDW23-SS1039<br>23A0179-11 | 01/10/23<br>11:56 | 01/10/23<br>17:10 | 01/11/23<br>10:29 | 0            | 180              | 01/11/23<br>10:33 | 1                | 180                  |   |
| LDW23-SS1007<br>23A0179-12 | 01/10/23<br>12:48 | 01/10/23<br>17:10 | 01/11/23<br>10:29 | 0            | 180              | 01/11/23<br>10:33 | 1                | 180                  |   |
| Duplicate<br>BLA0250-DUP1  | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 01/11/23<br>10:29 | 1            | 180              | 01/11/23<br>10:33 | 1                | 180                  |   |
| Duplicate<br>BLA0250-DUP2  | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 01/11/23<br>10:29 | 1            | 180              | 01/11/23<br>10:33 | 1                | 180                  |   |

\* Indicates hold time exceedance.



**Analytical Resources, LLC**  
Analytical Chemists and Consultants

## METHOD DETECTION AND REPORTING LIMITS

**SM 2540 G-97**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Instrument:

| <b>Analyte</b> | <b>MDL</b> | <b>RL</b> | <b>Units</b> |
|----------------|------------|-----------|--------------|
| Total Solids   | 0.04       | 0.04      | %            |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 9060A m**

|              |
|--------------|
| LDW23-SS1277 |
|--------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-01 D      SDG: 23A0179  
 Sampled: 01/10/23 08:24      Prepared: 01/13/23 09:35      File ID: CubeData\_01182023@1339-058  
 % Solids: 56.80      Preparation: Plumb 1981      Analyzed: 01/16/23 14:04  
 Batch: BLA0320      Sequence: SLA0148      Initial/Final: 0.5504 g Wet / 0.5504 g  
 Instrument: TOC Cube      Calibration: FD00070

| CAS NO. | Analyte              | Concentration (% dry) | Dilution Factor | MDL  | MRL  | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
|         | Total Organic Carbon | 1.64                  | 1               | 0.02 | 0.02 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 9060A m**

|              |
|--------------|
| LDW23-SS1271 |
|--------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-02 D      SDG: 23A0179  
 Sampled: 01/10/23 08:43      Prepared: 01/13/23 09:35      File ID: CubeData\_01182023@1339-075  
 % Solids: 64.44      Preparation: Plumb 1981      Analyzed: 01/16/23 15:35  
 Batch: BLA0320      Sequence: SLA0148      Initial/Final: 0.5116 g Wet / 0.5116 g  
 Instrument: TOC Cube      Calibration: FD00070

| CAS NO. | Analyte              | Concentration (% dry) | Dilution Factor | MDL  | MRL  | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
|         | Total Organic Carbon | 1.08                  | 1               | 0.02 | 0.02 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 9060A m**

|                     |
|---------------------|
| <b>LDW23-SS1266</b> |
|---------------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-03 D      SDG: 23A0179  
 Sampled: 01/10/23 09:04      Prepared: 01/13/23 09:35      File ID: CubeData\_01182023@1339-081  
 % Solids: 55.75      Preparation: Plumb 1981      Analyzed: 01/16/23 16:06  
 Batch: BLA0320      Sequence: SLA0148      Initial/Final: 0.5382 g Wet / 0.5382 g  
 Instrument: TOC Cube      Calibration: FD00070

| CAS NO. | Analyte              | Concentration (% dry) | Dilution Factor | MDL  | MRL  | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
|         | Total Organic Carbon | 1.59                  | 1               | 0.02 | 0.02 |   |





**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 9060A m**

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|---------------------|
| <b>LDW23-SS1248</b> |
|---------------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-04 D      SDG: 23A0179  
 Sampled: 01/10/23 09:20      Prepared: 01/13/23 09:35      File ID: CubeData\_01182023@1339-087  
 % Solids: 54.20      Preparation: Plumb 1981      Analyzed: 01/16/23 16:36  
 Batch: BLA0320      Sequence: SLA0148      Initial/Final: 0.5243 g Wet / 0.5243 g  
 Instrument: TOC Cube      Calibration: FD00070

| CAS NO. | Analyte              | Concentration (% dry) | Dilution Factor | MDL  | MRL  | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
|         | Total Organic Carbon | 1.70                  | 1               | 0.02 | 0.02 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 9060A m**

|                     |
|---------------------|
| <b>LDW23-SS1239</b> |
|---------------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-05 D      SDG: 23A0179  
 Sampled: 01/10/23 09:35      Prepared: 01/13/23 09:35      File ID: CubeData\_01182023@1339-091  
 % Solids: 65.08      Preparation: Plumb 1981      Analyzed: 01/16/23 18:06  
 Batch: BLA0320      Sequence: SLA0148      Initial/Final: 0.5865 g Wet / 0.5865 g  
 Instrument: TOC Cube      Calibration: FD00070

| CAS NO. | Analyte              | Concentration (% dry) | Dilution Factor | MDL  | MRL  | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
|         | Total Organic Carbon | 0.98                  | 1               | 0.02 | 0.02 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 9060A m**

|                     |
|---------------------|
| <b>LDW23-SS1213</b> |
|---------------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-06 D      SDG: 23A0179  
 Sampled: 01/10/23 09:54      Prepared: 01/13/23 09:35      File ID: CubeData\_01182023@1339-092  
 % Solids: 50.11      Preparation: Plumb 1981      Analyzed: 01/16/23 18:37  
 Batch: BLA0320      Sequence: SLA0148      Initial/Final: 0.5374 g Wet / 0.5374 g  
 Instrument: TOC Cube      Calibration: FD00070

| CAS NO. | Analyte              | Concentration (% dry) | Dilution Factor | MDL  | MRL  | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
|         | Total Organic Carbon | 2.16                  | 1               | 0.02 | 0.02 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 9060A m**

|                     |
|---------------------|
| <b>LDW23-SS1200</b> |
|---------------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-07 D      SDG: 23A0179  
 Sampled: 01/10/23 10:10      Prepared: 01/13/23 09:35      File ID: CubeData\_01182023@1339-093  
 % Solids: 67.54      Preparation: Plumb 1981      Analyzed: 01/16/23 19:07  
 Batch: BLA0320      Sequence: SLA0148      Initial/Final: 0.546 g Wet / 0.546 g  
 Instrument: TOC Cube      Calibration: FD00070

| CAS NO. | Analyte              | Concentration (% dry) | Dilution Factor | MDL  | MRL  | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
|         | Total Organic Carbon | 0.79                  | 1               | 0.02 | 0.02 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 9060A m**

|              |
|--------------|
| LDW23-SS1178 |
|--------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-08 D      SDG: 23A0179  
 Sampled: 01/10/23 10:56      Prepared: 01/13/23 09:35      File ID: CubeData\_01182023@1339-094  
 % Solids: 59.76      Preparation: Plumb 1981      Analyzed: 01/16/23 19:37  
 Batch: BLA0320      Sequence: SLA0148      Initial/Final: 0.5235 g Wet / 0.5235 g  
 Instrument: TOC Cube      Calibration: FD00070

| CAS NO. | Analyte              | Concentration (% dry) | Dilution Factor | MDL  | MRL  | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
|         | Total Organic Carbon | 1.25                  | 1               | 0.02 | 0.02 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 9060A m**

|              |
|--------------|
| LDW23-SS1171 |
|--------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-09 D      SDG: 23A0179  
 Sampled: 01/10/23 11:08      Prepared: 01/13/23 09:35      File ID: CubeData\_01182023@1339-095  
 % Solids: 50.25      Preparation: Plumb 1981      Analyzed: 01/16/23 20:08  
 Batch: BLA0320      Sequence: SLA0148      Initial/Final: 0.5333 g Wet / 0.5333 g  
 Instrument: TOC Cube      Calibration: FD00070

| CAS NO. | Analyte              | Concentration (% dry) | Dilution Factor | MDL  | MRL  | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
|         | Total Organic Carbon | 2.22                  | 1               | 0.02 | 0.02 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 9060A m**

|                     |
|---------------------|
| <b>LDW23-SS1112</b> |
|---------------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-10 D      SDG: 23A0179  
 Sampled: 01/10/23 11:28      Prepared: 01/13/23 09:35      File ID: CubeData\_01182023@1339-096  
 % Solids: 45.71      Preparation: Plumb 1981      Analyzed: 01/16/23 20:38  
 Batch: BLA0320      Sequence: SLA0148      Initial/Final: 0.5397 g Wet / 0.5397 g  
 Instrument: TOC Cube      Calibration: FD00070

| CAS NO. | Analyte              | Concentration (% dry) | Dilution Factor | MDL  | MRL  | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
|         | Total Organic Carbon | 2.52                  | 1               | 0.02 | 0.02 |   |



**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 9060A m**

|                     |
|---------------------|
| <b>LDW23-SS1039</b> |
|---------------------|

Laboratory: Analytical Resources, LLC  
 Client: Anchor QEA, LLC  
 Project: AOC5 MR Phase 1  
 Matrix: Sediment      Laboratory ID: 23A0179-11 D      SDG: 23A0179  
 Sampled: 01/10/23 11:56      Prepared: 01/13/23 09:35      File ID: CubeData\_01182023@1339-097  
 % Solids: 46.16      Preparation: Plumb 1981      Analyzed: 01/16/23 21:08  
 Batch: BLA0320      Sequence: SLA0148      Initial/Final: 0.5333 g Wet / 0.5333 g  
 Instrument: TOC Cube      Calibration: FD00070

| CAS NO. | Analyte              | Concentration (% dry) | Dilution Factor | MDL  | MRL  | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
|         | Total Organic Carbon | 2.81                  | 1               | 0.02 | 0.02 |   |





**Form I**  
**INORGANIC ANALYSIS DATA SHEET**  
**EPA 9060A m**

|              |
|--------------|
| LDW23-SS1007 |
|--------------|

Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment      Laboratory ID: 23A0179-12 D      SDG: 23A0179

Sampled: 01/10/23 12:48      Prepared: 01/13/23 09:35      File ID: CubeData\_01182023@1339-098

% Solids: 46.07      Preparation: Plumb 1981      Analyzed: 01/16/23 21:39

Batch: BLA0320      Sequence: SLA0148      Initial/Final: 0.507 g Wet / 0.507 g

Instrument: TOC Cube      Calibration: FD00070

| CAS NO. | Analyte              | Concentration<br>(% dry) | Dilution<br>Factor | MDL  | MRL  | Q |
|---------|----------------------|--------------------------|--------------------|------|------|---|
|         | Total Organic Carbon | 2.32                     | 1                  | 0.02 | 0.02 |   |



## PREPARATION BATCH SUMMARY

### EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 23A0179  
Client: Anchor QEA, LLC Project: AOC5 MR Phase 1  
Batch: BLA0320 Batch Matrix: Solid Preparation: Plumb 1981

| SAMPLE NAME  | LAB SAMPLE ID | LAB FILE ID          | DATE PREPARED  | OBSERVATIONS |
|--------------|---------------|----------------------|----------------|--------------|
| LDW23-SS1277 | 23A0179-01    | eData_01182023@1339- | 01/13/23 09:35 |              |
| LDW23-SS1271 | 23A0179-02    | eData_01182023@1339- | 01/13/23 09:35 |              |
| LDW23-SS1266 | 23A0179-03    | eData_01182023@1339- | 01/13/23 09:35 |              |
| LDW23-SS1248 | 23A0179-04    | eData_01182023@1339- | 01/13/23 09:35 |              |
| LDW23-SS1239 | 23A0179-05    | eData_01182023@1339- | 01/13/23 09:35 |              |
| LDW23-SS1213 | 23A0179-06    | eData_01182023@1339- | 01/13/23 09:35 |              |
| LDW23-SS1200 | 23A0179-07    | eData_01182023@1339- | 01/13/23 09:35 |              |
| LDW23-SS1178 | 23A0179-08    | eData_01182023@1339- | 01/13/23 09:35 |              |
| LDW23-SS1171 | 23A0179-09    | eData_01182023@1339- | 01/13/23 09:35 |              |
| LDW23-SS1112 | 23A0179-10    | eData_01182023@1339- | 01/13/23 09:35 |              |
| LDW23-SS1039 | 23A0179-11    | eData_01182023@1339- | 01/13/23 09:35 |              |
| LDW23-SS1007 | 23A0179-12    | eData_01182023@1339- | 01/13/23 09:35 |              |
| Blank        | BLA0320-BLK1  | eData_01182023@1339- | 01/13/23 09:35 |              |
| LCS          | BLA0320-BS1   | eData_01182023@1339- | 01/13/23 09:35 |              |
| LDW23-SS1277 | BLA0320-DUP1  | eData_01182023@1339- | 01/13/23 09:35 |              |
| MRL Check    | BLA0320-MRL1  | eData_01182023@1339- | 01/13/23 09:35 |              |
| LDW23-SS1277 | BLA0320-MS1   | eData_01182023@1339- | 01/13/23 09:35 |              |
| Reference    | BLA0320-SRM1  | eData_01182023@1339- | 01/13/23 09:35 |              |



**Form I**  
**METHOD BLANK DATA SHEET**  
**EPA 9060A m**  
TotalAnalytes

|              |
|--------------|
| <b>Blank</b> |
|--------------|

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Batch: BLA0320

Laboratory ID: BLA0320-BLK1

Prepared: 01/13/23 09:35

Matrix: Solid

Preparation: Plumb 1981

Analyzed: 01/16/23 12:33

Sequence: SLA0148

Calibration: FD00070

Instrument: TOC Cube

| CAS NO. | Analyte              | Concentration<br>(% wet) | Dilution<br>Factor | MDL  | MRL  | Q |
|---------|----------------------|--------------------------|--------------------|------|------|---|
|         | Total Organic Carbon | ND                       | 1                  | 0.02 | 0.02 | U |



**LCS / LCS DUPLICATE RECOVERY**  
**EPA 9060A m**

|                |                                  |                |                        |
|----------------|----------------------------------|----------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>         |
| Client:        | <u>Anchor QEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u> |
| Matrix:        | <u>Solid</u>                     | Analyzed:      | <u>01/16/23 13:03</u>  |
| Batch:         | <u>BLA0320</u>                   | Laboratory ID: | <u>BLA0320-BS1</u>     |
| Preparation:   | <u>Plumb 1981</u>                | Sequence Name: | <u>LCS</u>             |
| Initial/Final: | <u>0.0197 g / 0.0197 g</u>       |                |                        |

| COMPOUND             | SPIKE ADDED (% wet) | LCS CONCENTRATION (% wet) | Q | LCS % REC. # | QC LIMITS REC. |
|----------------------|---------------------|---------------------------|---|--------------|----------------|
| Total Organic Carbon | 44.4                | 44.9                      |   | 101          | 80 - 120       |

\* Indicates values outside of QC limits



**DUPLICATES**

**EPA 9060A m**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: BLA0320-DUP1

Batch: BLA0320

Lab Source ID: 23A0179-01

Preparation: Plumb 1981

Initial/Final: 0.5738 g / 0.5738 g

Source Sample Name: LDW23-SS1277

% Solids: 56.80

| ANALYTE              | CONTROL LIMIT | SAMPLE CONCENTRATION | DUPLICATE CONCENTRATION | RPD % | Q |
|----------------------|---------------|----------------------|-------------------------|-------|---|
| Total Organic Carbon | 20            | 1.64                 | 1.70                    | 4.00  |   |

\*: Values outside of QC limits

L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD



**MS / MS DUPLICATE RECOVERY**  
**EPA 9060A m**

|                |                                  |                |                        |
|----------------|----------------------------------|----------------|------------------------|
| Laboratory:    | <u>Analytical Resources, LLC</u> | SDG:           | <u>23A0179</u>         |
| Client:        | <u>Anchor OEA, LLC</u>           | Project:       | <u>AOC5 MR Phase 1</u> |
| Matrix:        | <u>Solid</u>                     | Analyzed:      | <u>01/16/23 15:05</u>  |
| Batch:         | <u>BLA0320</u>                   | Laboratory ID: | <u>BLA0320-MS1</u>     |
| Preparation:   | <u>Plumb 1981</u>                | Sequence Name: | <u>Matrix Spike</u>    |
| Initial/Final: | <u>0.561 g / 0.561 g</u>         | Source Sample: | <u>LDW23-SS1277</u>    |

| COMPOUND             | SPIKE ADDED (% dry) | SAMPLE CONCENTRATION (% dry) | Q | MS CONCENTRATION (% dry) | Q | MS % REC. # | QC LIMITS REC. |
|----------------------|---------------------|------------------------------|---|--------------------------|---|-------------|----------------|
| Total Organic Carbon | 1.19                | 1.64                         |   | 2.89                     |   | 105         | 75 - 125       |

\* Values outside of QC limits



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SKD0371

Instrument: TOC Cube

Calibration: FD00070

| Sample Name       | Lab Sample ID | Lab File ID                | Matrix | Analysis Date/Time |
|-------------------|---------------|----------------------------|--------|--------------------|
| Cal Standard      | SKD0371-CAL1  | CubeData_04272022@1136-001 | NA     | 04/26/22 12:30     |
| Cal Standard      | SKD0371-CAL2  | CubeData_04272022@1136-002 | NA     | 04/26/22 13:00     |
| Cal Standard      | SKD0371-CAL3  | CubeData_04272022@1136-003 | NA     | 04/26/22 13:30     |
| Cal Standard      | SKD0371-CAL4  | CubeData_04272022@1136-004 | NA     | 04/26/22 14:00     |
| Cal Standard      | SKD0371-CAL5  | CubeData_04272022@1136-005 | NA     | 04/26/22 14:30     |
| Cal Standard      | SKD0371-CAL6  | CubeData_04272022@1136-006 | NA     | 04/26/22 15:00     |
| Cal Standard      | SKD0371-CAL7  | CubeData_04272022@1136-007 | NA     | 04/26/22 15:30     |
| Cal Standard      | SKD0371-CAL8  | CubeData_04272022@1136-008 | NA     | 04/26/22 16:00     |
| Cal Standard      | SKD0371-CAL9  | CubeData_04272022@1136-009 | NA     | 04/26/22 16:30     |
| Cal Standard      | SKD0371-CALA  | CubeData_04272022@1136-010 | NA     | 04/26/22 17:00     |
| Cal Standard      | SKD0371-CALB  | CubeData_04272022@1136-011 | NA     | 04/26/22 17:30     |
| Cal Standard      | SKD0371-CALC  | CubeData_04272022@1136-012 | NA     | 04/26/22 18:00     |
| Cal Standard      | SKD0371-CALD  | CubeData_04272022@1136-013 | NA     | 04/26/22 18:30     |
| Cal Standard      | SKD0371-CALE  | CubeData_04272022@1136-014 | NA     | 04/26/22 19:00     |
| Cal Standard      | SKD0371-CALF  | CubeData_04272022@1136-015 | NA     | 04/26/22 19:31     |
| Cal Standard      | SKD0371-CALG  | CubeData_04272022@1136-016 | NA     | 04/26/22 20:01     |
| Cal Standard      | SKD0371-CALH  | CubeData_04272022@1136-017 | NA     | 04/26/22 20:31     |
| Cal Standard      | SKD0371-CALI  | CubeData_04272022@1136-018 | NA     | 04/26/22 21:01     |
| Cal Standard      | SKD0371-CALJ  | CubeData_04272022@1136-019 | NA     | 04/26/22 21:31     |
| Cal Standard      | SKD0371-CALK  | CubeData_04272022@1136-020 | NA     | 04/26/22 22:01     |
| Initial Cal Check | SKD0371-ICV1  | CubeData_04272022@1136-027 | NA     | 04/27/22 02:03     |
| Initial Cal Blank | SKD0371-ICB1  | CubeData_04272022@1136-028 | NA     | 04/27/22 02:33     |
| Cal Standard      | SKD0371-CALL  | CubeData_04272022@1136-021 | NA     | 04/27/22 11:08     |
| Cal Standard      | SKD0371-CALM  | CubeData_04272022@1136-022 | NA     | 04/27/22 11:08     |
| Cal Standard      | SKD0371-CALN  | CubeData_04272022@1136-023 | NA     | 04/27/22 11:09     |
| Cal Standard      | SKD0371-CALO  | CubeData_04272022@1136-024 | NA     | 04/27/22 11:09     |



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLA0148

Instrument: TOC Cube

Calibration: FD00070

| Sample Name       | Lab Sample ID | Lab File ID                | Matrix | Analysis Date/Time |
|-------------------|---------------|----------------------------|--------|--------------------|
| Initial Cal Check | SLA0148-ICV1  | CubeData_01182023@1339-019 | NA     | 01/16/23 11:02     |
| Initial Cal Blank | SLA0148-ICB1  | CubeData_01182023@1339-026 | NA     | 01/16/23 11:32     |
| MRL Check         | BLA0320-MRL1  | CubeData_01182023@1339-033 | Solid  | 01/16/23 12:03     |
| Blank             | BLA0320-BLK1  | CubeData_01182023@1339-040 | Solid  | 01/16/23 12:33     |
| LCS               | BLA0320-BS1   | CubeData_01182023@1339-047 | Solid  | 01/16/23 13:03     |
| Reference         | BLA0320-SRM1  | CubeData_01182023@1339-052 | Solid  | 01/16/23 13:34     |
| LDW23-SS1277      | 23A0179-01    | CubeData_01182023@1339-058 | Solid  | 01/16/23 14:04     |
| LDW23-SS1277      | BLA0320-DUP1  | CubeData_01182023@1339-063 | Solid  | 01/16/23 14:35     |
| LDW23-SS1277      | BLA0320-MS1   | CubeData_01182023@1339-069 | Solid  | 01/16/23 15:05     |
| LDW23-SS1271      | 23A0179-02    | CubeData_01182023@1339-075 | Solid  | 01/16/23 15:35     |
| LDW23-SS1266      | 23A0179-03    | CubeData_01182023@1339-081 | Solid  | 01/16/23 16:06     |
| LDW23-SS1248      | 23A0179-04    | CubeData_01182023@1339-087 | Solid  | 01/16/23 16:36     |
| Calibration Check | SLA0148-CCV1  | CubeData_01182023@1339-089 | NA     | 01/16/23 17:06     |
| Calibration Blank | SLA0148-CCB1  | CubeData_01182023@1339-090 | NA     | 01/16/23 17:36     |
| LDW23-SS1239      | 23A0179-05    | CubeData_01182023@1339-091 | Solid  | 01/16/23 18:06     |
| LDW23-SS1213      | 23A0179-06    | CubeData_01182023@1339-092 | Solid  | 01/16/23 18:37     |
| LDW23-SS1200      | 23A0179-07    | CubeData_01182023@1339-093 | Solid  | 01/16/23 19:07     |
| LDW23-SS1178      | 23A0179-08    | CubeData_01182023@1339-094 | Solid  | 01/16/23 19:37     |
| LDW23-SS1171      | 23A0179-09    | CubeData_01182023@1339-095 | Solid  | 01/16/23 20:08     |
| LDW23-SS1112      | 23A0179-10    | CubeData_01182023@1339-096 | Solid  | 01/16/23 20:38     |
| LDW23-SS1039      | 23A0179-11    | CubeData_01182023@1339-097 | Solid  | 01/16/23 21:08     |
| LDW23-SS1007      | 23A0179-12    | CubeData_01182023@1339-098 | Solid  | 01/16/23 21:39     |
| Calibration Check | SLA0148-CCV2  | CubeData_01182023@1339-101 | NA     | 01/16/23 23:10     |
| Calibration Blank | SLA0148-CCB2  | CubeData_01182023@1339-102 | NA     | 01/16/23 23:40     |
| Calibration Check | SLA0148-CCV3  | CubeData_01182023@1339-113 | NA     | 01/17/23 05:15     |
| Calibration Blank | SLA0148-CCB3  | CubeData_01182023@1339-114 | NA     | 01/17/23 05:45     |
| Calibration Check | SLA0148-CCV4  | CubeData_01182023@1339-124 | NA     | 01/17/23 11:19     |
| Calibration Blank | SLA0148-CCB4  | CubeData_01182023@1339-125 | NA     | 01/17/23 11:49     |
| Calibration Check | SLA0148-CCV5  | CubeData_01182023@1339-136 | NA     | 01/17/23 17:22     |





## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLA0148

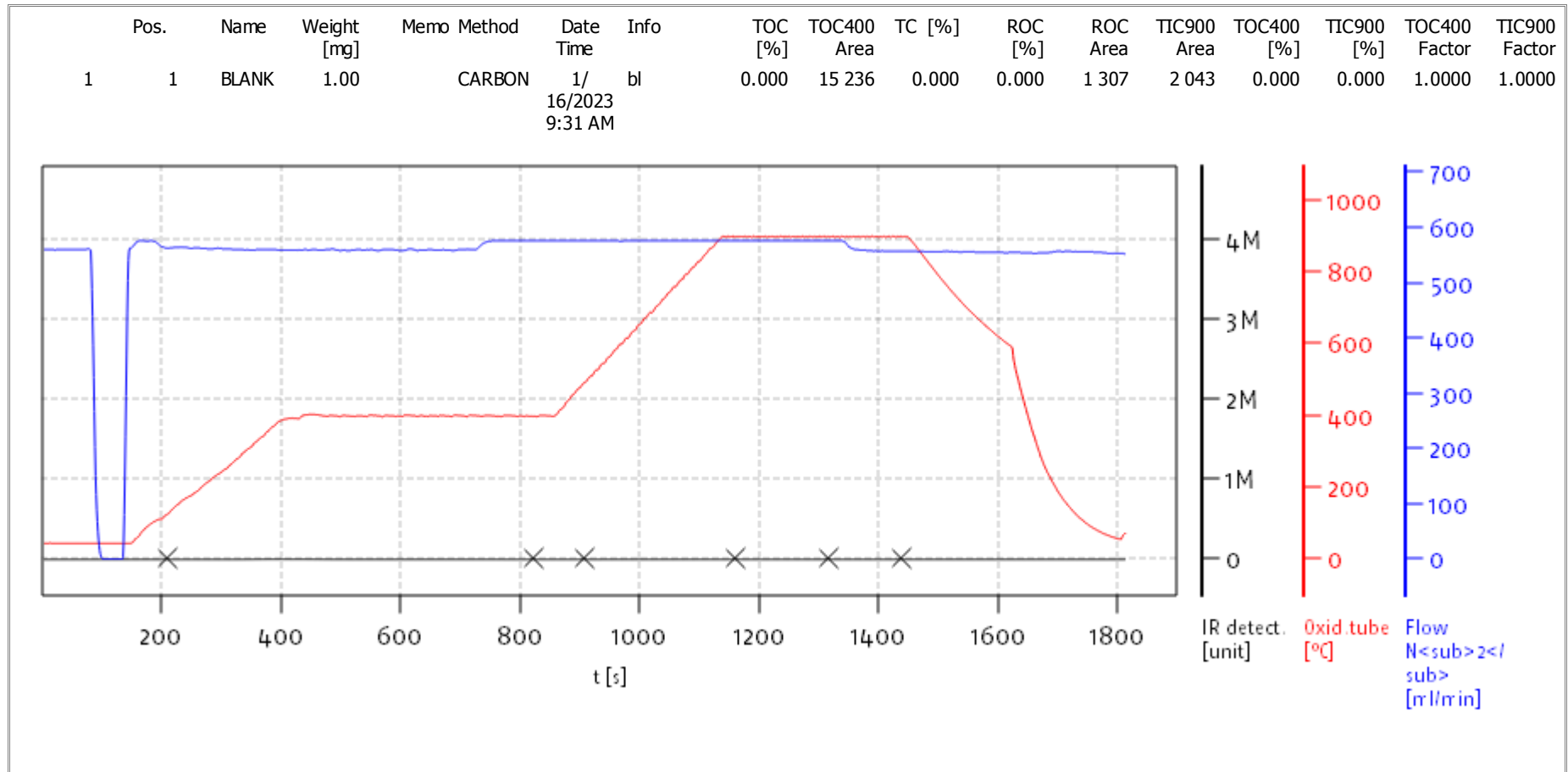
Instrument: TOC Cube

Calibration: FD00070

| Sample Name       | Lab Sample ID | Lab File ID                | Matrix | Analysis Date/Time |
|-------------------|---------------|----------------------------|--------|--------------------|
| Calibration Blank | SLA0148-CCB5  | CubeData_01182023@1339-137 | NA     | 01/17/23 17:52     |
| Calibration Check | SLA0148-CCV6  | CubeData_01182023@1339-148 | NA     | 01/17/23 23:27     |
| Calibration Blank | SLA0148-CCB6  | CubeData_01182023@1339-149 | NA     | 01/17/23 23:57     |
| Calibration Check | SLA0148-CCV7  | CubeData_01182023@1339-160 | NA     | 01/18/23 05:31     |
| Calibration Blank | SLA0148-CCB7  | CubeData_01182023@1339-161 | NA     | 01/18/23 06:02     |
| Calibration Check | SLA0148-CCV8  | CubeData_01182023@1339-064 | NA     | 01/18/23 11:35     |
| Calibration Blank | SLA0148-CCB8  | CubeData_01182023@1339-070 | NA     | 01/18/23 12:05     |
| Calibration Check | SLA0148-CCV9  | CubeData_01182023@1339-082 | NA     | 01/18/23 13:06     |
| Calibration Blank | SLA0148-CCB9  | CubeData_01182023@1339-088 | NA     | 01/18/23 13:36     |



**Soli TOC Cube, Carbon**  
**Balance: BAL3**  
**Analyst: DOE**



Name:

Access: solITOC superuser

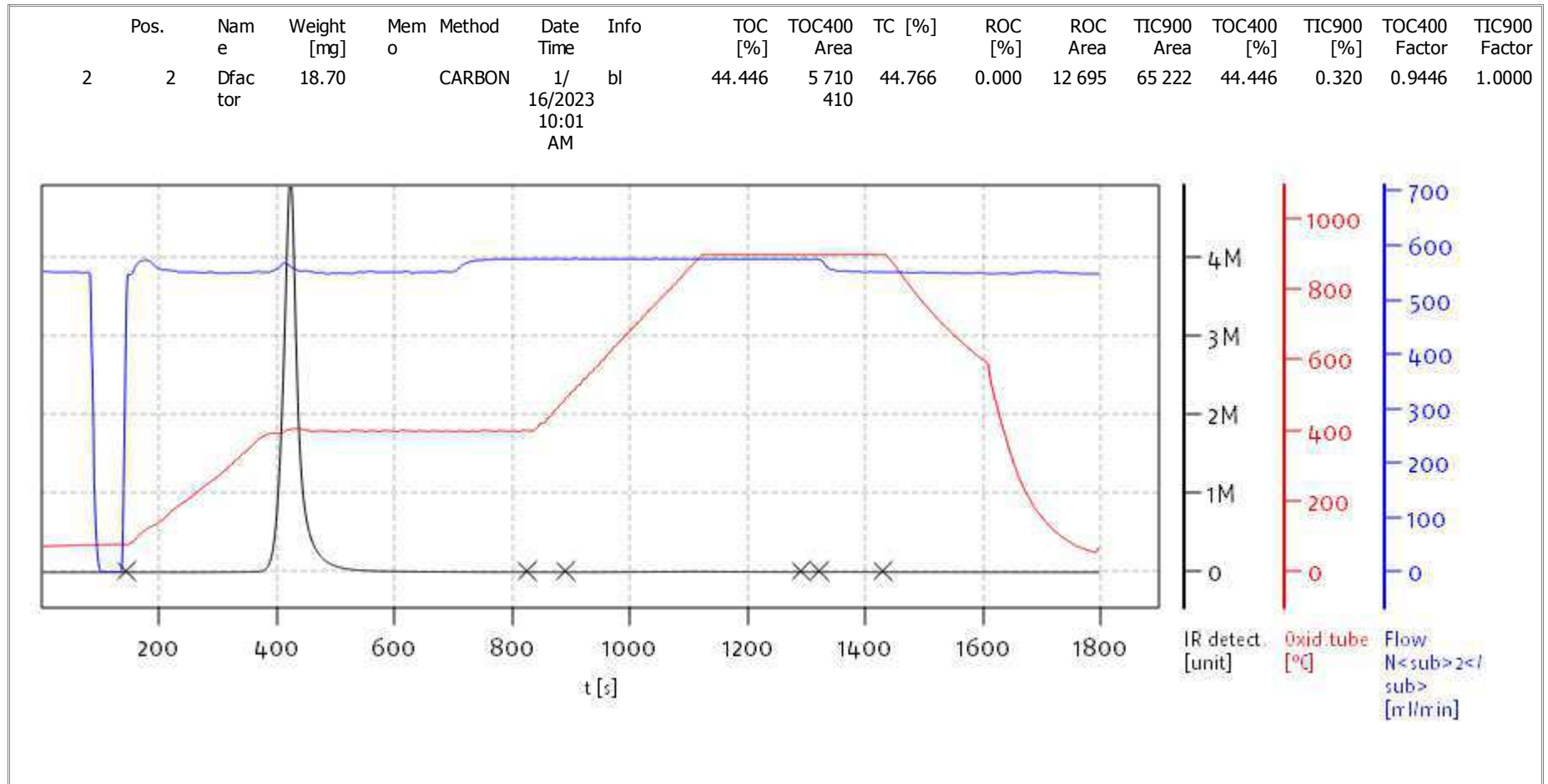
Date: Wed Jan 18 13:37:19 2023



solITOC V2.0.2 (31015f9) 2018-11-19  
Serial No: 0300.181017  
Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

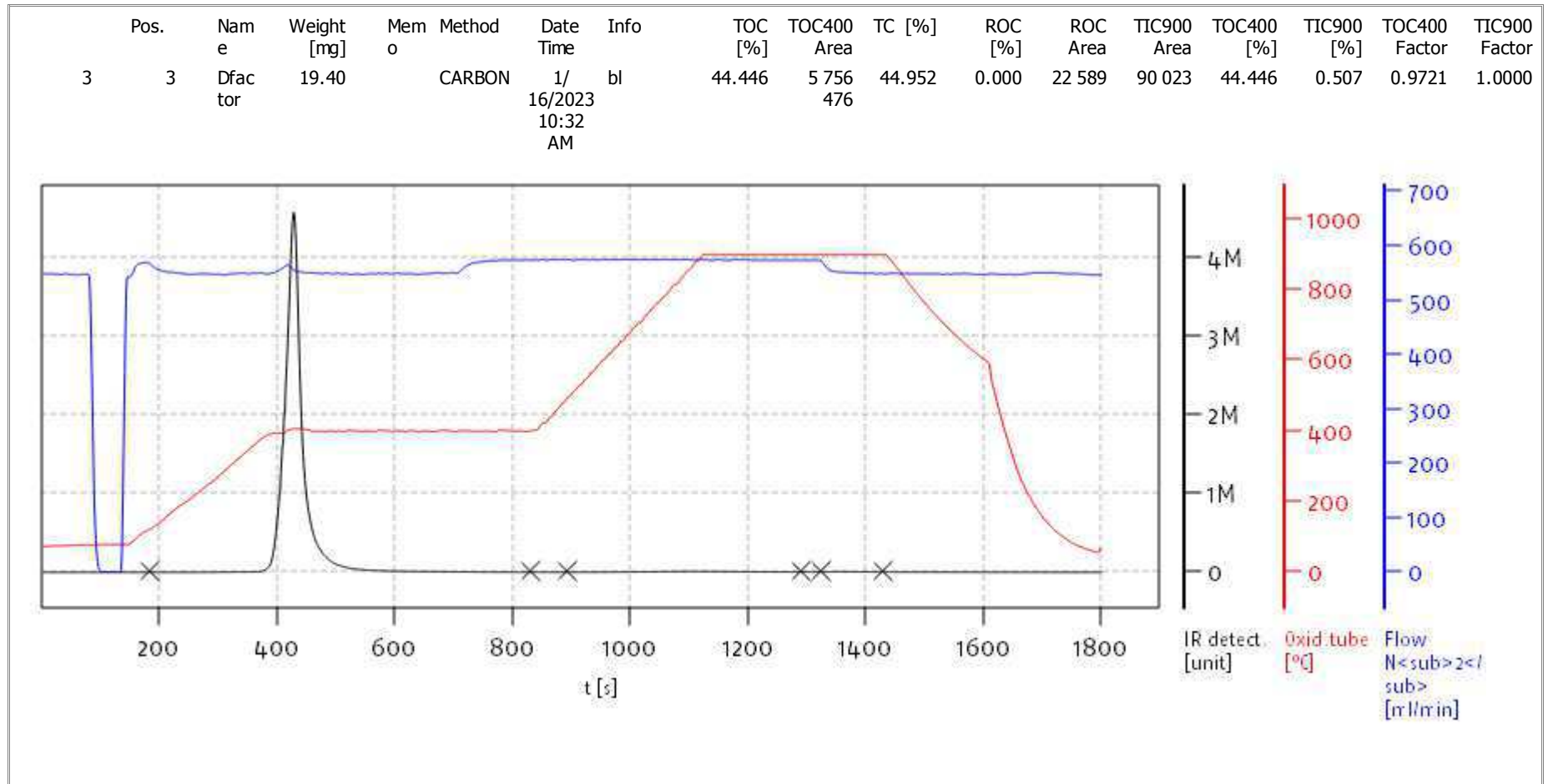
Access: solITOC superuser

Date: Wed Jan 18 13:37:19 2023



solITOC V2.0.2 (31015f9) 2018-11-19  
Serial No: 0300.181017  
Mode CCC

Soli TOC Cube, Carbon  
 Balance: BAL3  
 Analyst: DOE



Name:

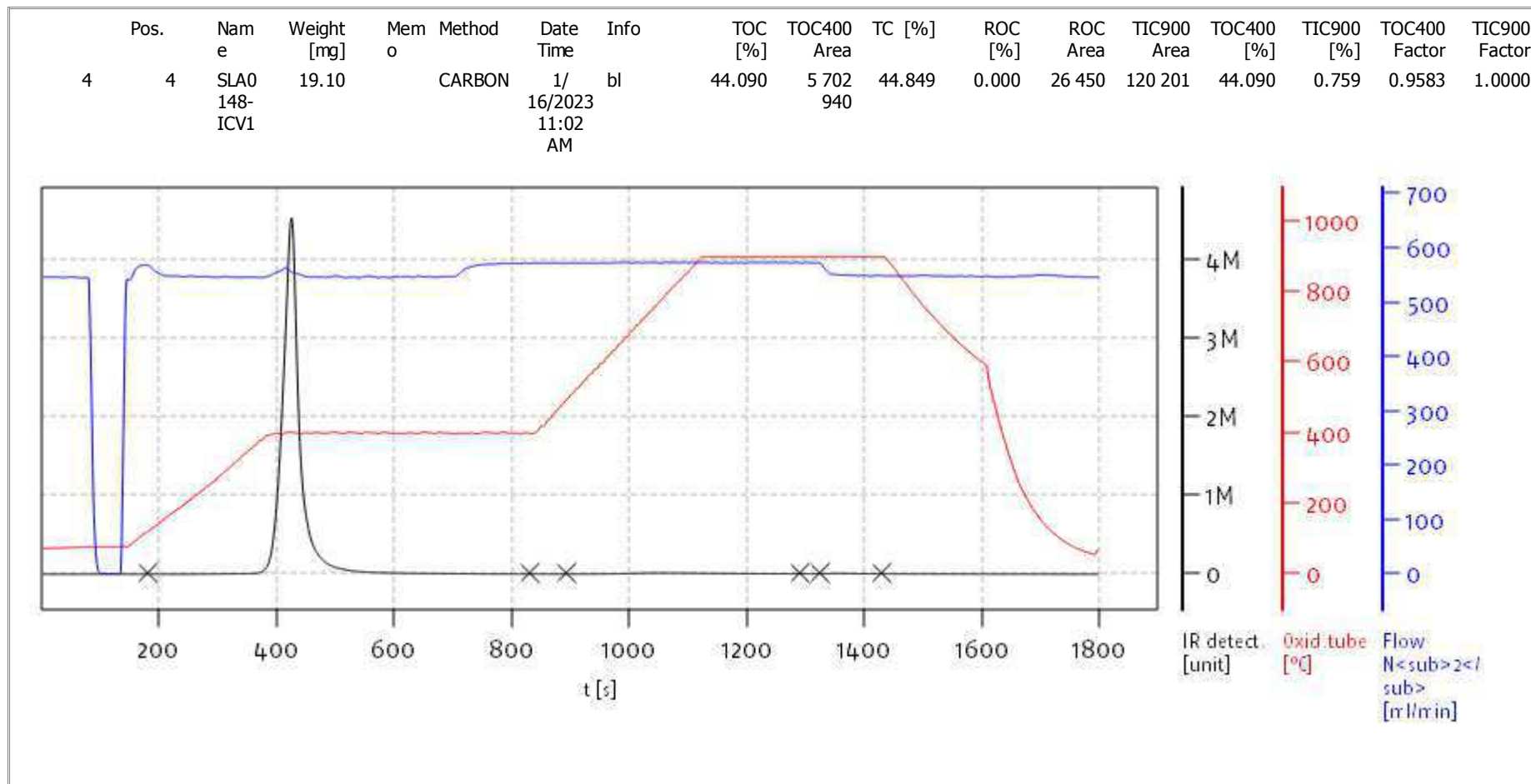
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Date: Wed Jan 18 13:37:19 2023



solITOC V2.0.2 (31015f9) 2018-11-19  
 Serial No: 0300.181017  
 Mode CCC

Soli TOC Cube, Carbon  
 Balance: BAL3  
 Analyst: DOE



Name:

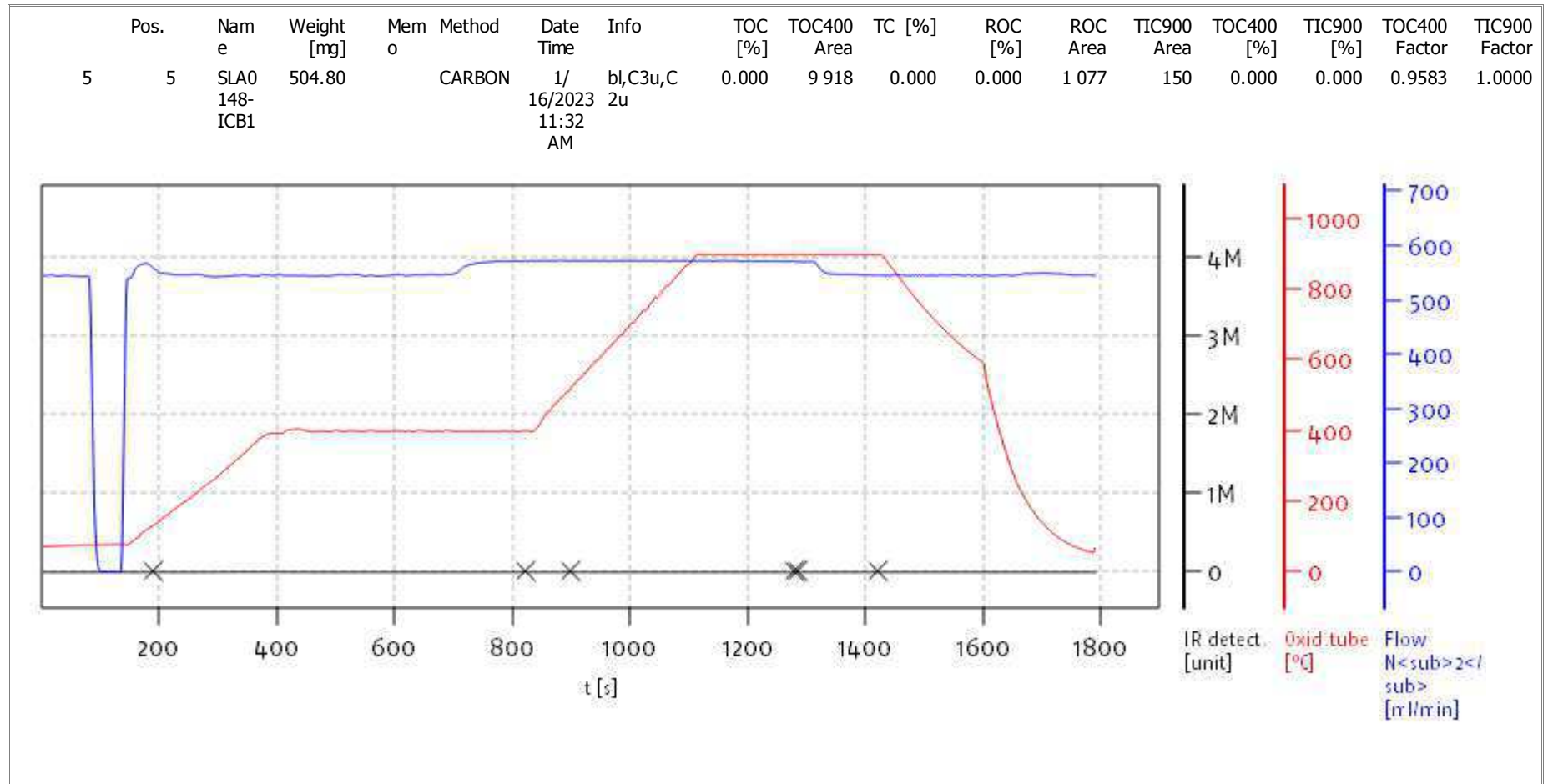
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Date: Wed Jan 18 13:37:19 2023



solITOC V2.0.2 (31015f9) 2018-11-19  
 Serial No: 0300.181017  
 Mode CCC

Soli TOC Cube, Carbon  
 Balance: BAL3  
 Analyst: DOE



Name:

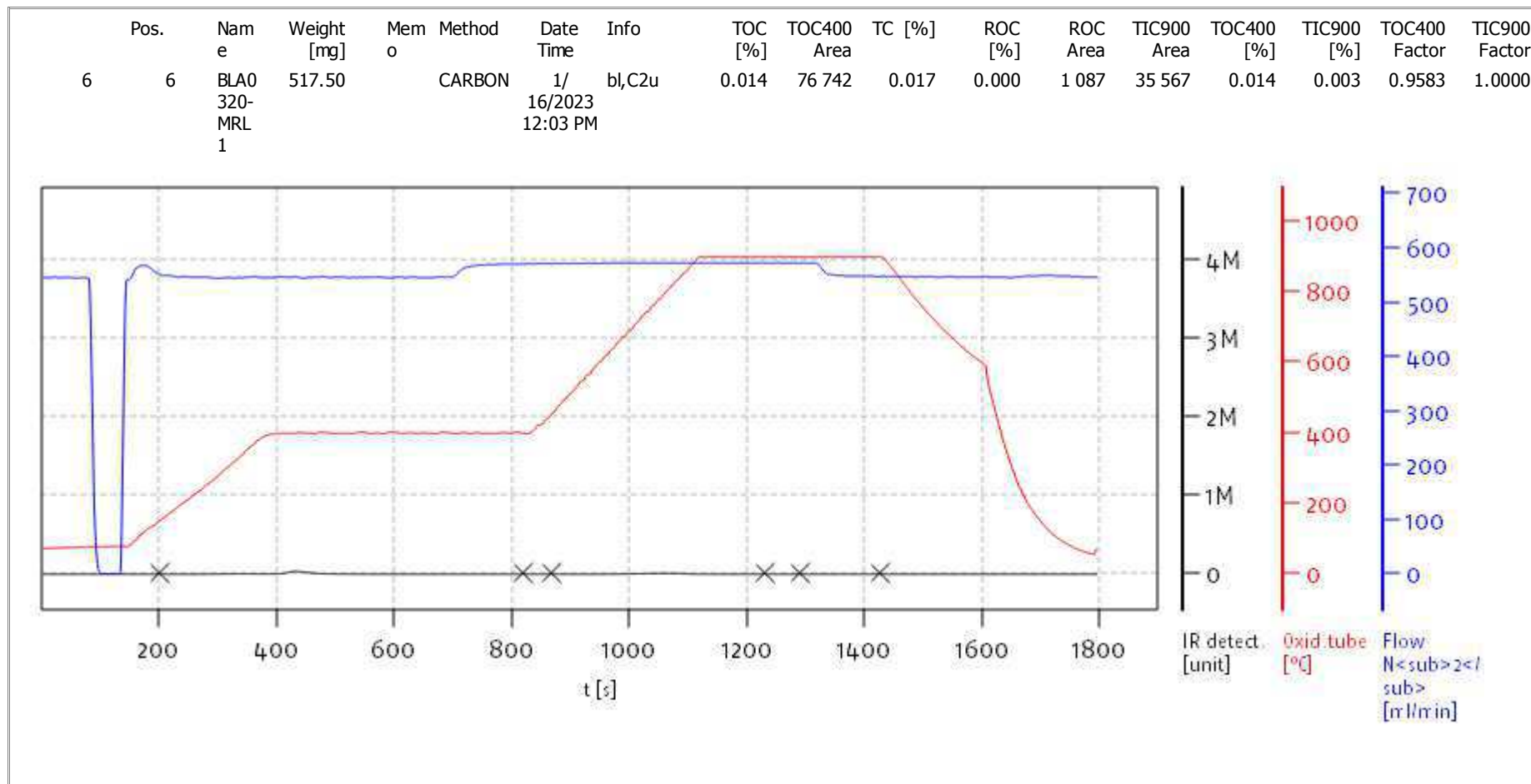
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Date: Wed Jan 18 13:37:19 2023



solITOC V2.0.2 (31015f9) 2018-11-19  
 Serial No: 0300.181017  
 Mode CCC

Soli TOC Cube, Carbon  
 Balance: BAL3  
 Analyst: DOE



Name:

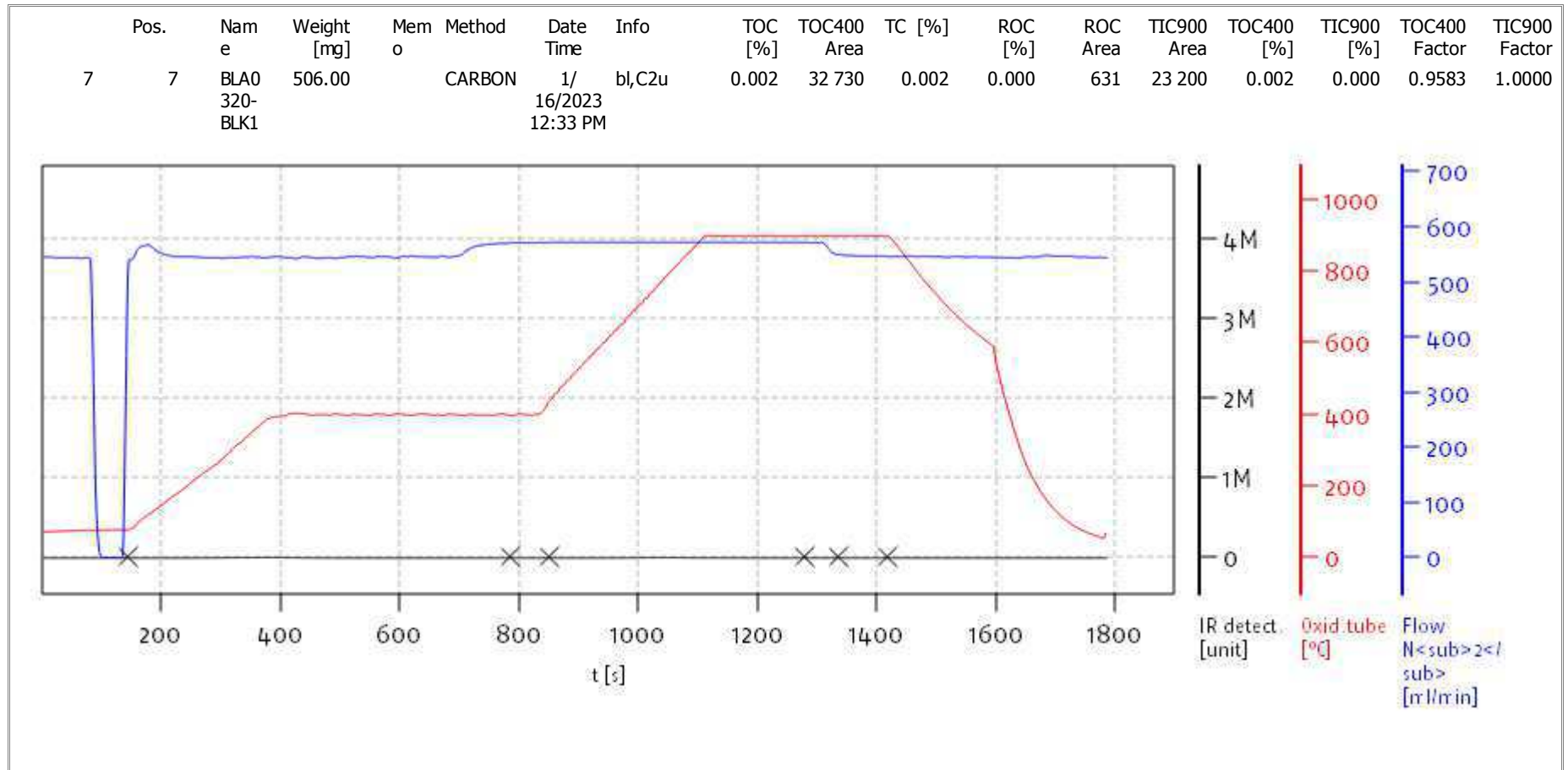
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Date: Wed Jan 18 13:37:19 2023



solITOC V2.0.2 (31015f9) 2018-11-19  
 Serial No: 0300.181017  
 Mode CCC

Soli TOC Cube, Carbon  
 Balance: BAL3  
 Analyst: DOE



Name:

Access: solITOC superuser

Date: Wed Jan 18 13:37:19 2023

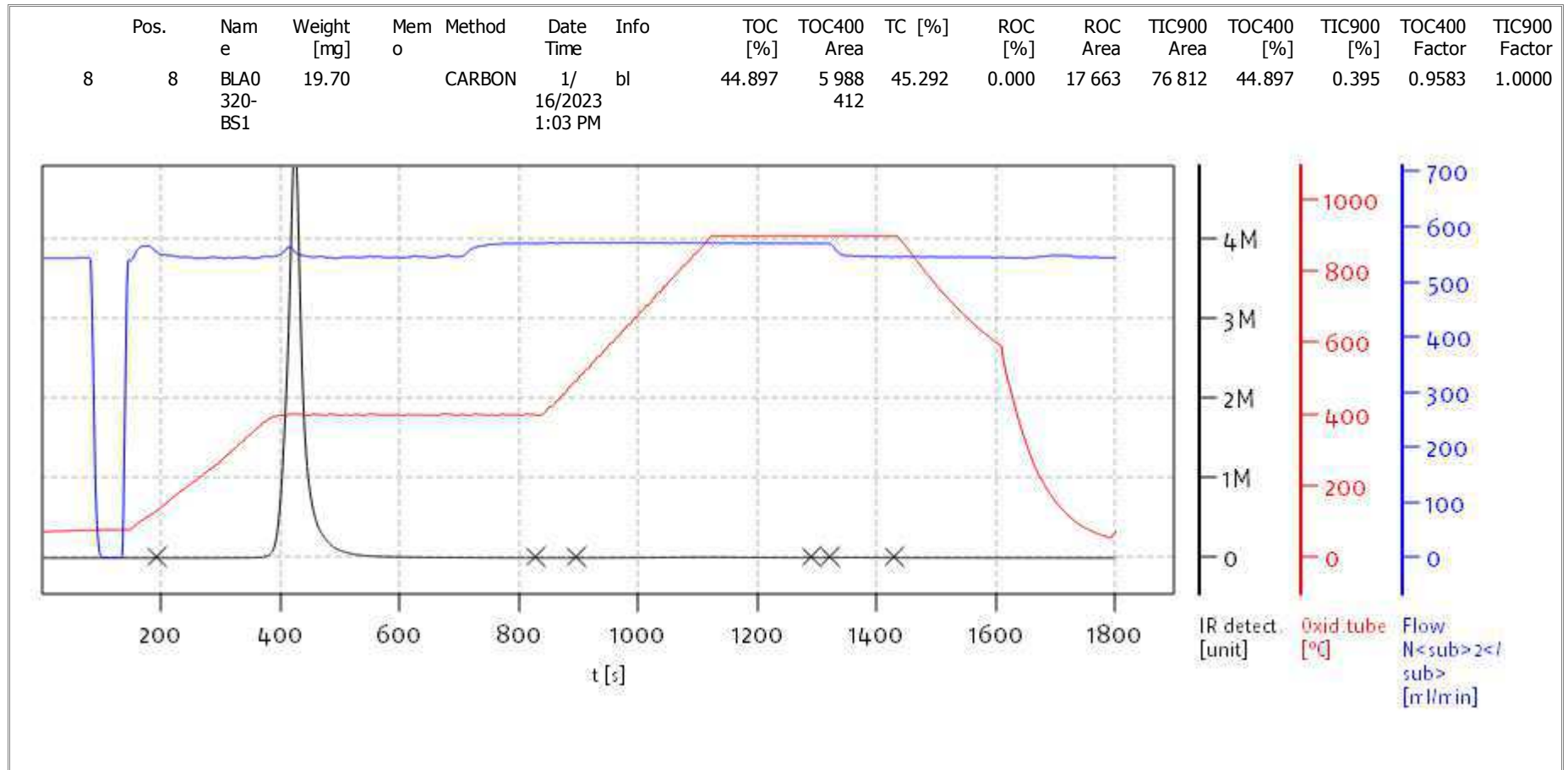


solITOC V2.0.2 (31015f9) 2018-11-19  
 Serial No: 0300.181017  
 Mode CCC





**Soli TOC Cube, Carbon**  
**Balance: BAL3**  
**Analyst: DOE**



Name:

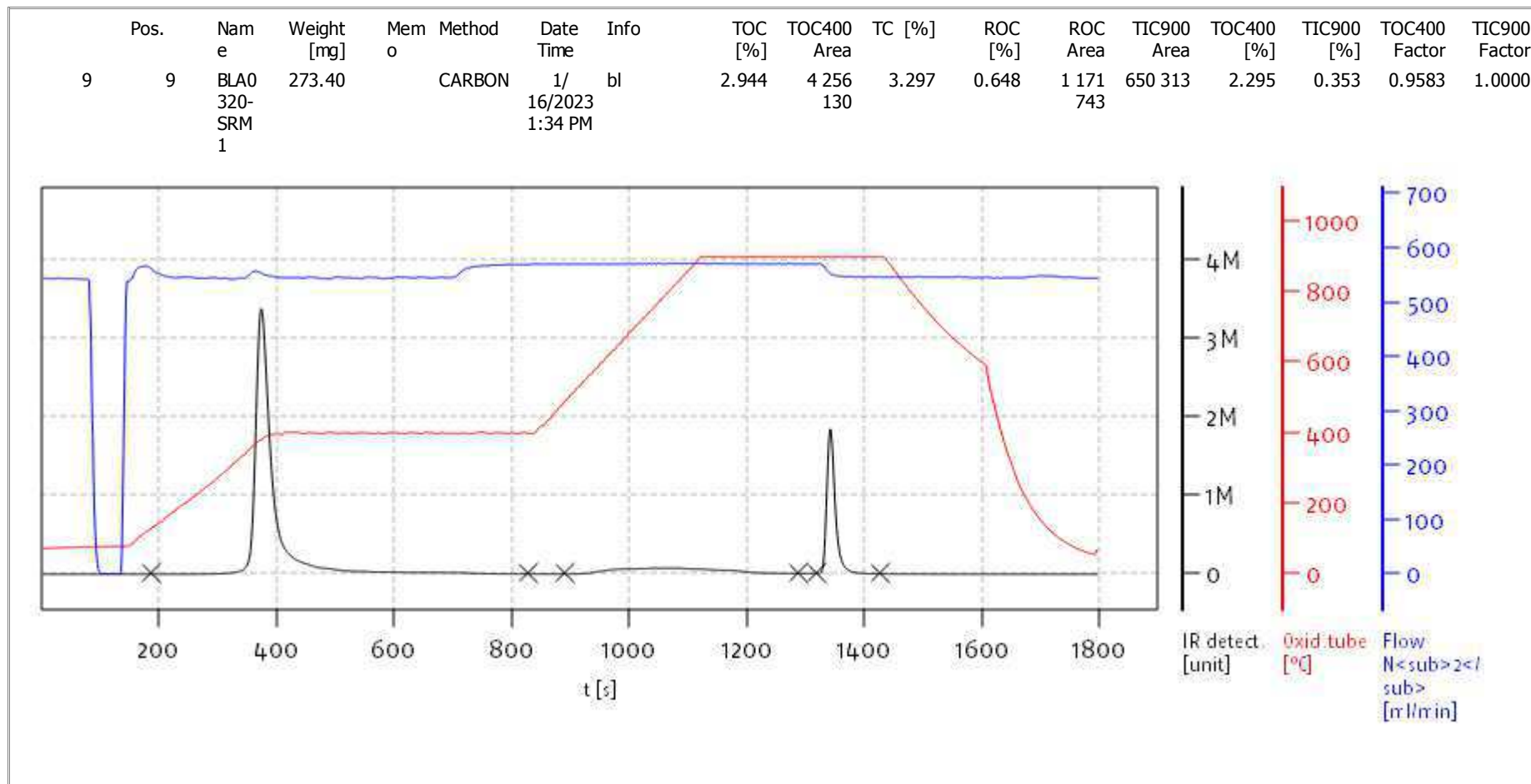
Access: solITOC superuser

Date: Wed Jan 18 13:37:19 2023



solITOC V2.0.2 (31015f9) 2018-11-19  
 Serial No: 0300.181017  
 Mode CCC

Soli TOC Cube, Carbon  
 Balance: BAL3  
 Analyst: DOE



Name:

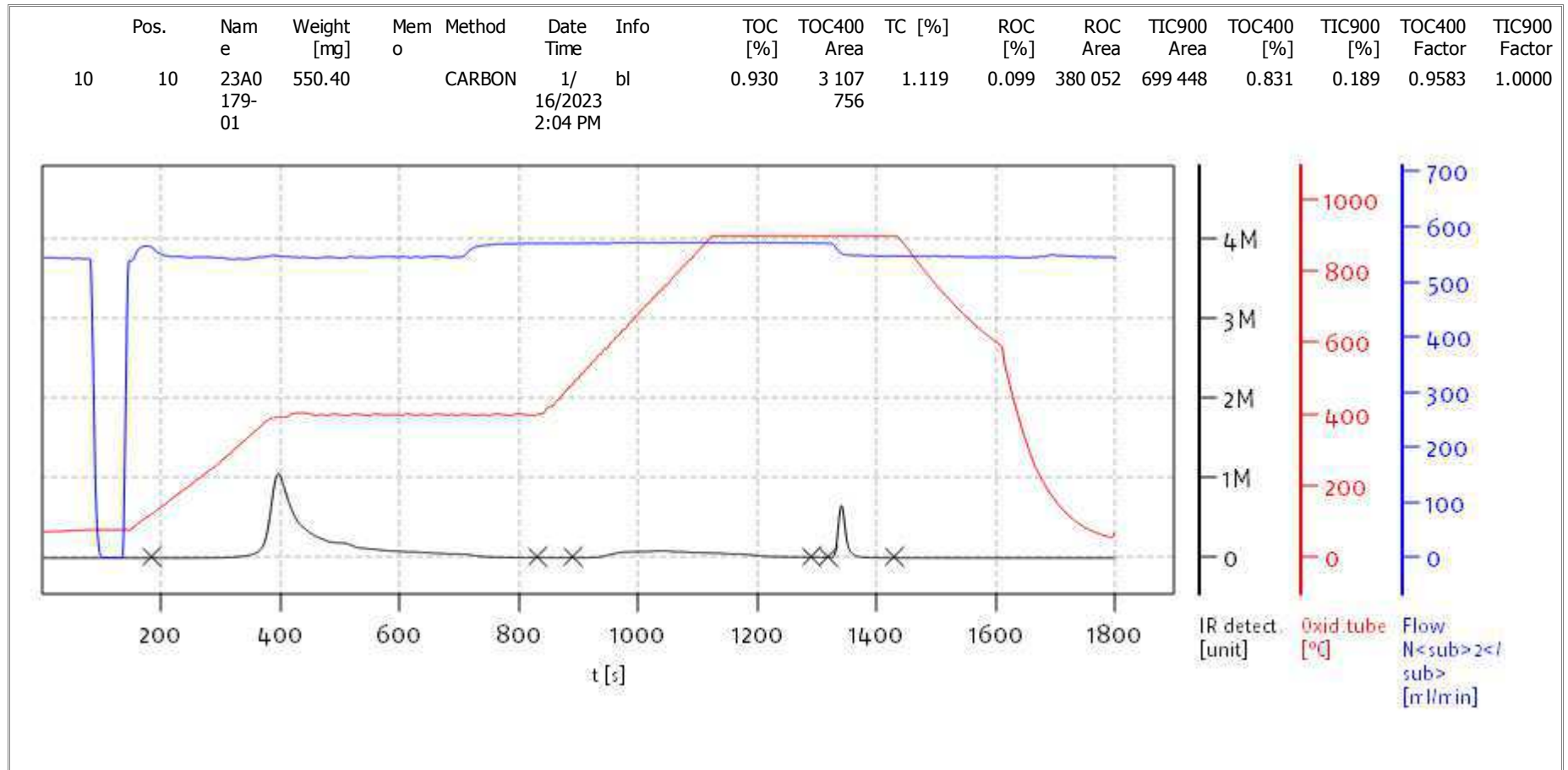
Access: solITOC superuser

Date: Wed Jan 18 13:37:19 2023



solITOC V2.0.2 (31015f9) 2018-11-19  
 Serial No: 0300.181017  
 Mode CCC

Soli TOC Cube, Carbon  
 Balance: BAL3  
 Analyst: DOE



Name:

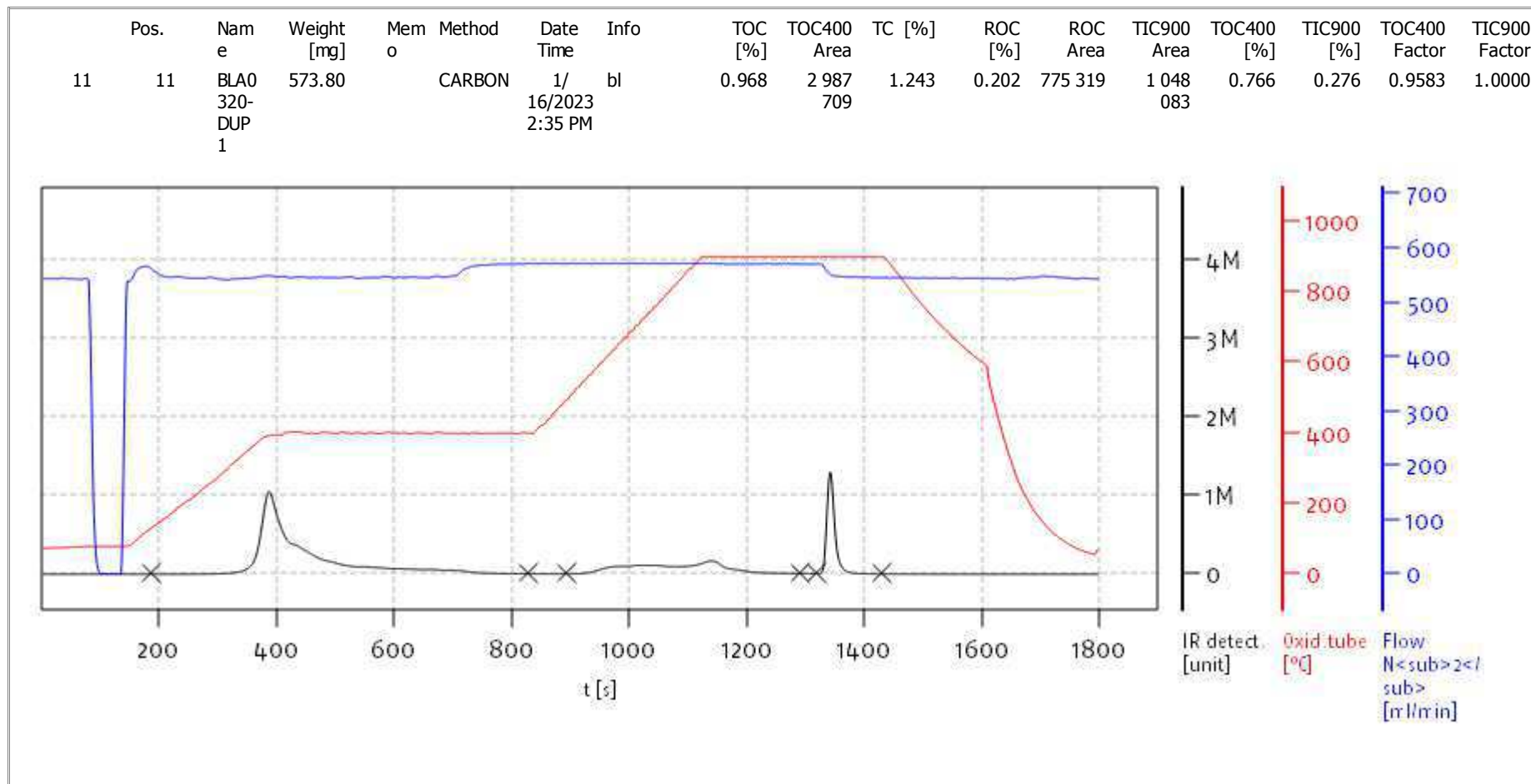
Access: solITOC superuser

Date: Wed Jan 18 13:37:19 2023



solITOC V2.0.2 (31015f9) 2018-11-19  
 Serial No: 0300.181017  
 Mode CCC

Soli TOC Cube, Carbon  
 Balance: BAL3  
 Analyst: DOE



Name:

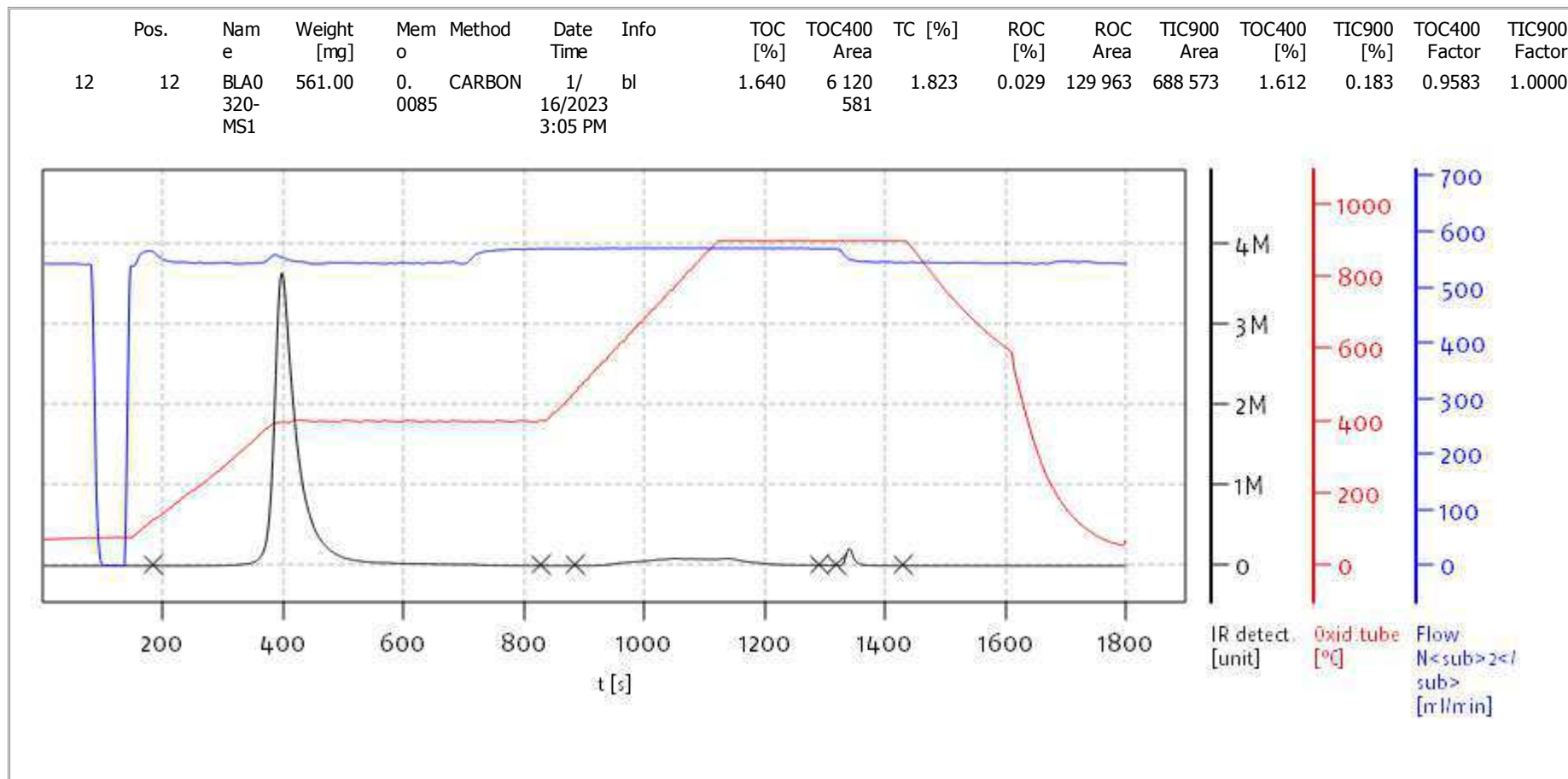
Access: solITOC superuser

Date: Wed Jan 18 13:37:19 2023



solITOC V2.0.2 (31015f9) 2018-11-19  
 Serial No: 0300.181017  
 Mode CCC

Soli TOC Cube, Carbon  
 Balance: BAL3  
 Analyst: DOE



Name:

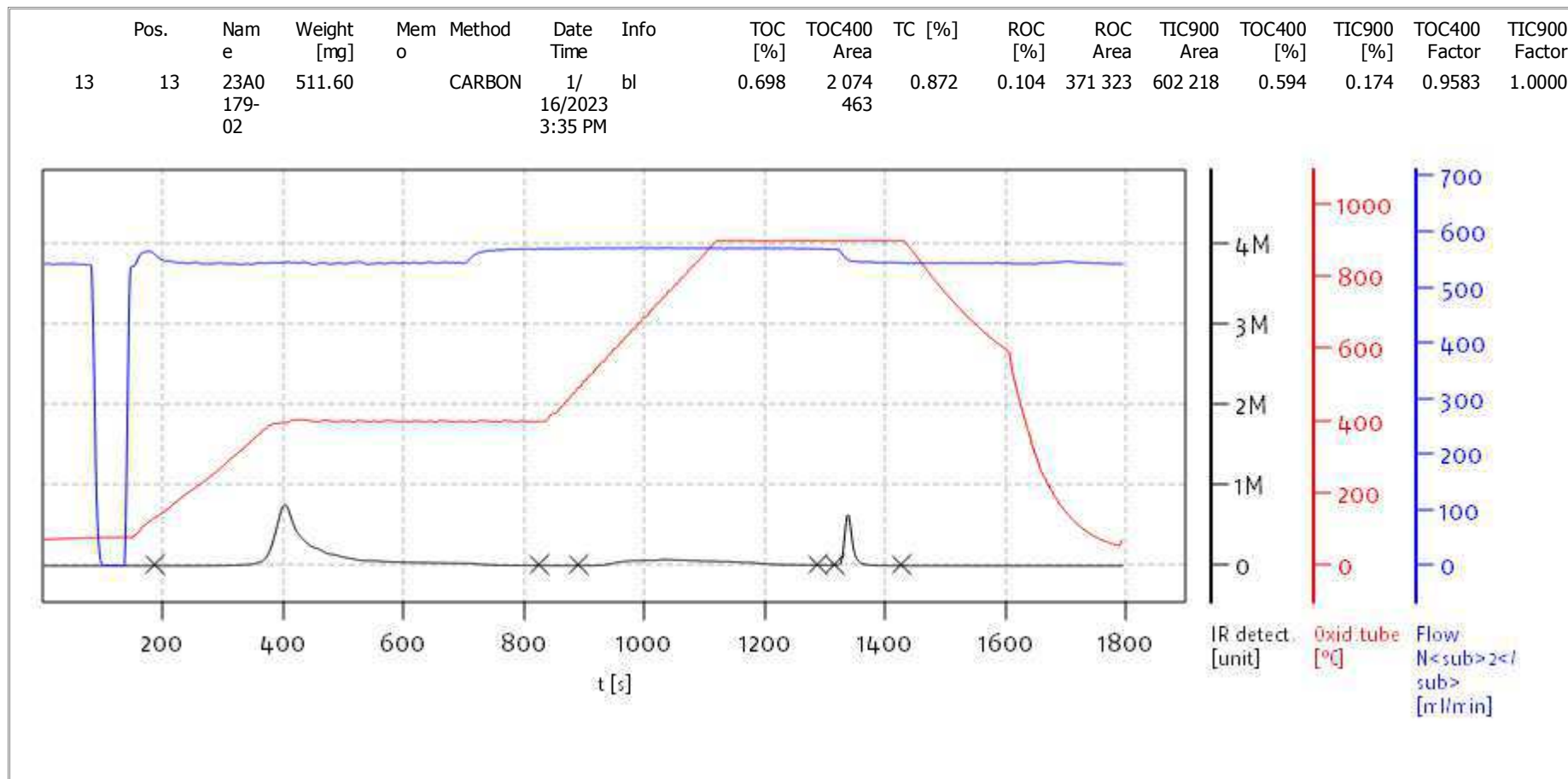
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Date: Wed Jan 18 13:37:19 2023



solITOC V2.0.2 (31015f9) 2018-11-19  
 Serial No: 0300.181017  
 Mode CCC

Soli TOC Cube, Carbon  
 Balance: BAL3  
 Analyst: DOE



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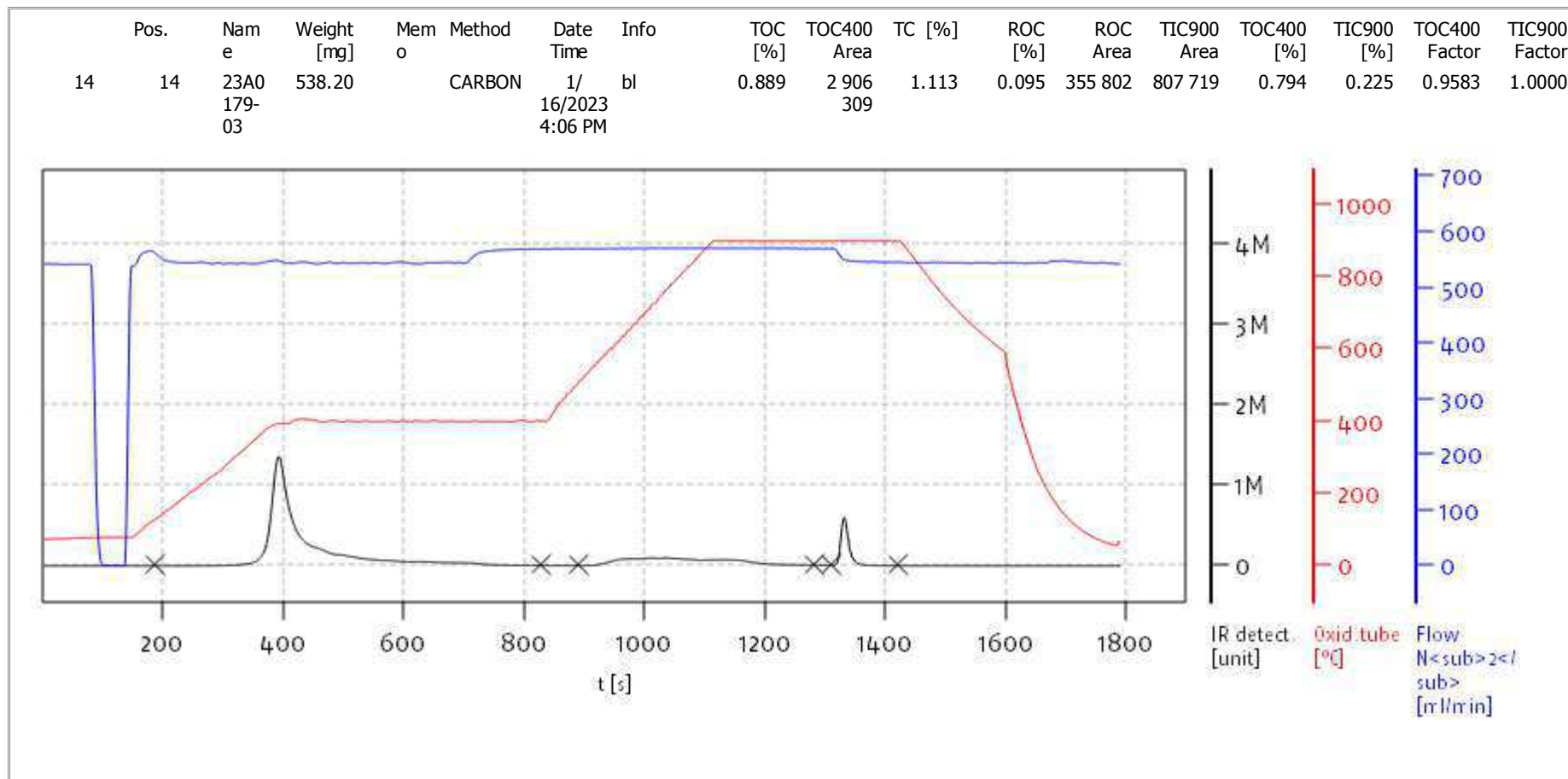
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Soli TOC Cube, Carbon  
 Balance: BAL3  
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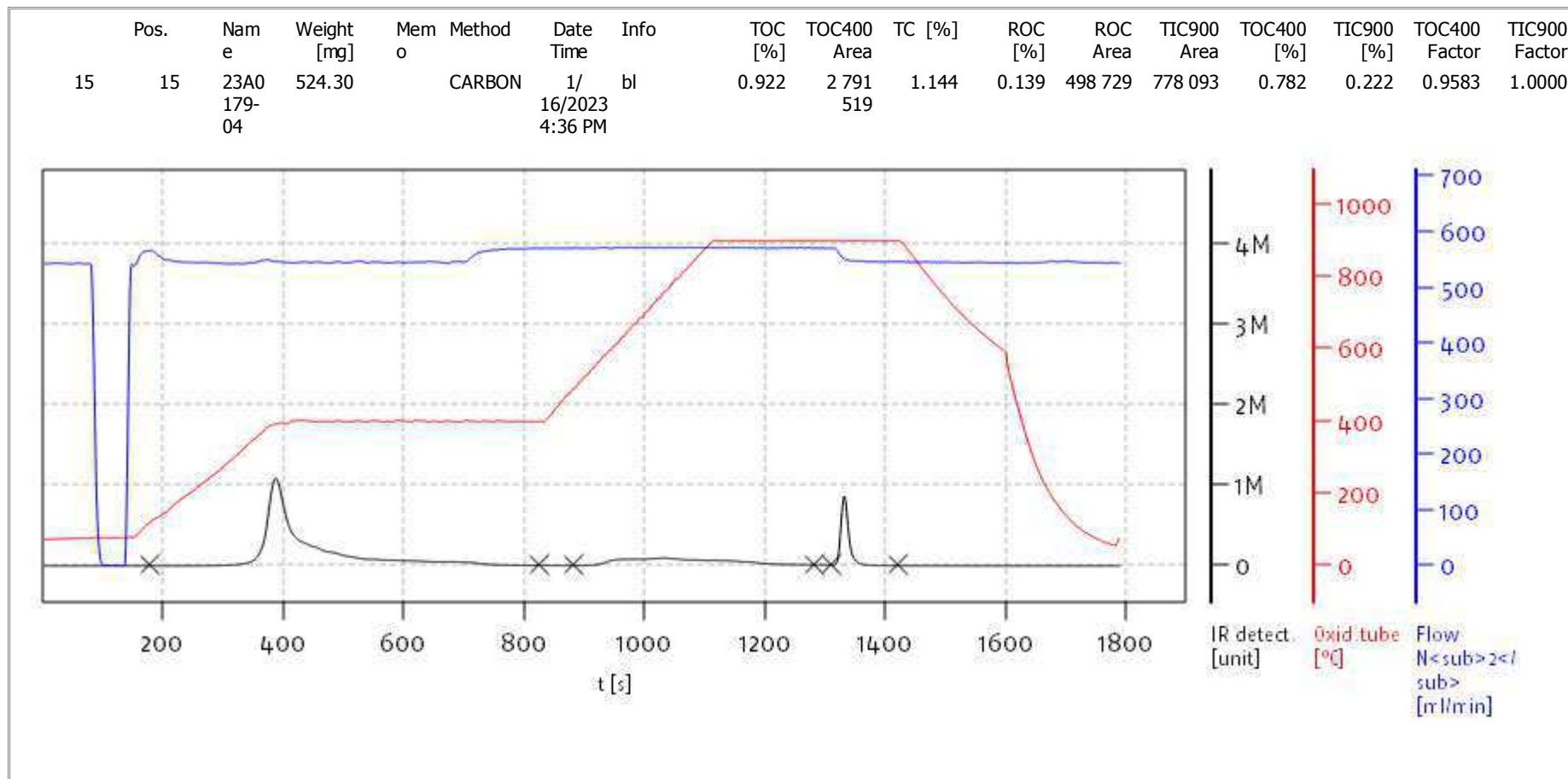
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Soli TOC Cube, Carbon  
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Name:

Access: soliTOC superuser

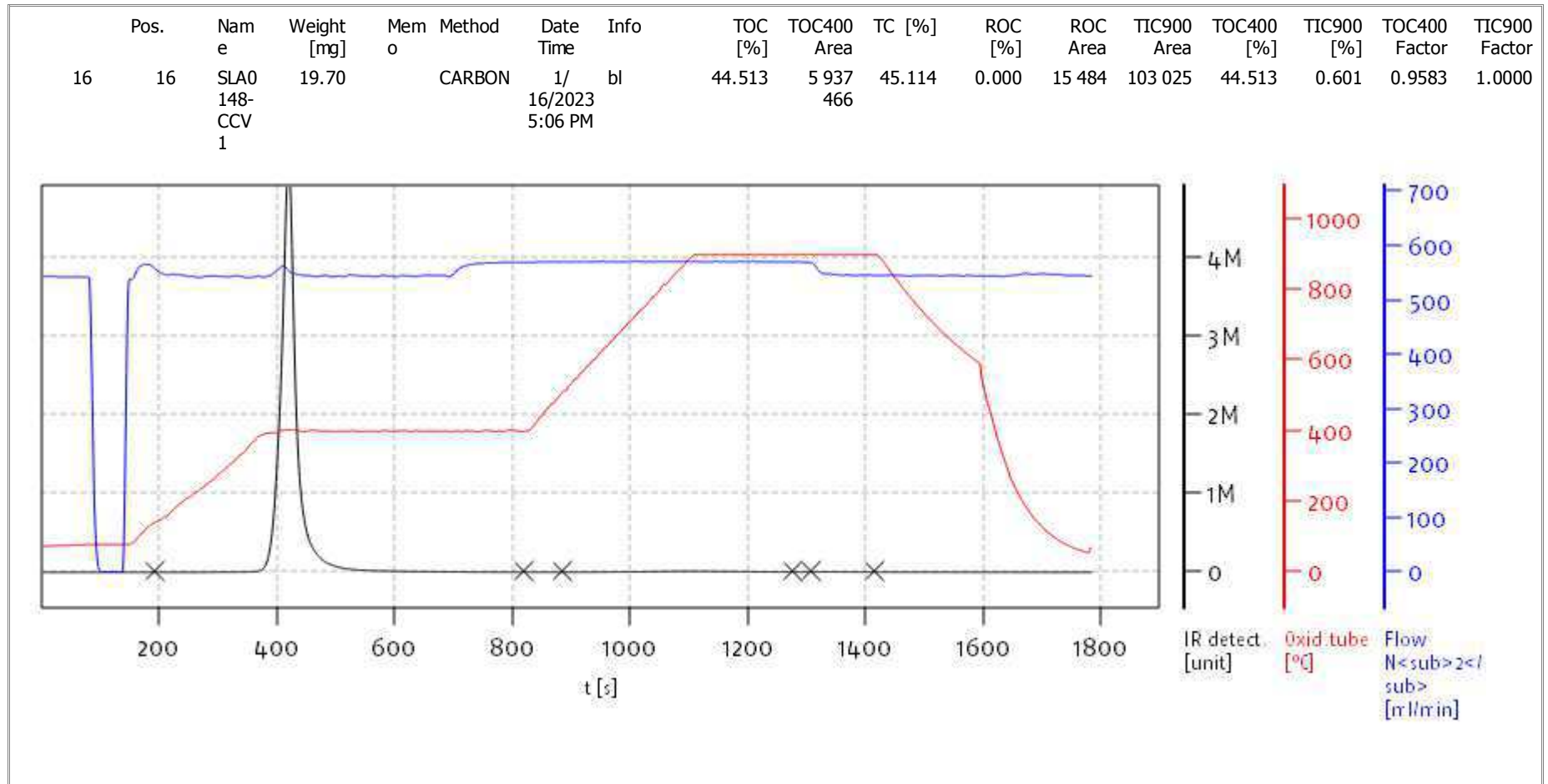
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Soli TOC Cube, Carbon  
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 Analyst: DOE



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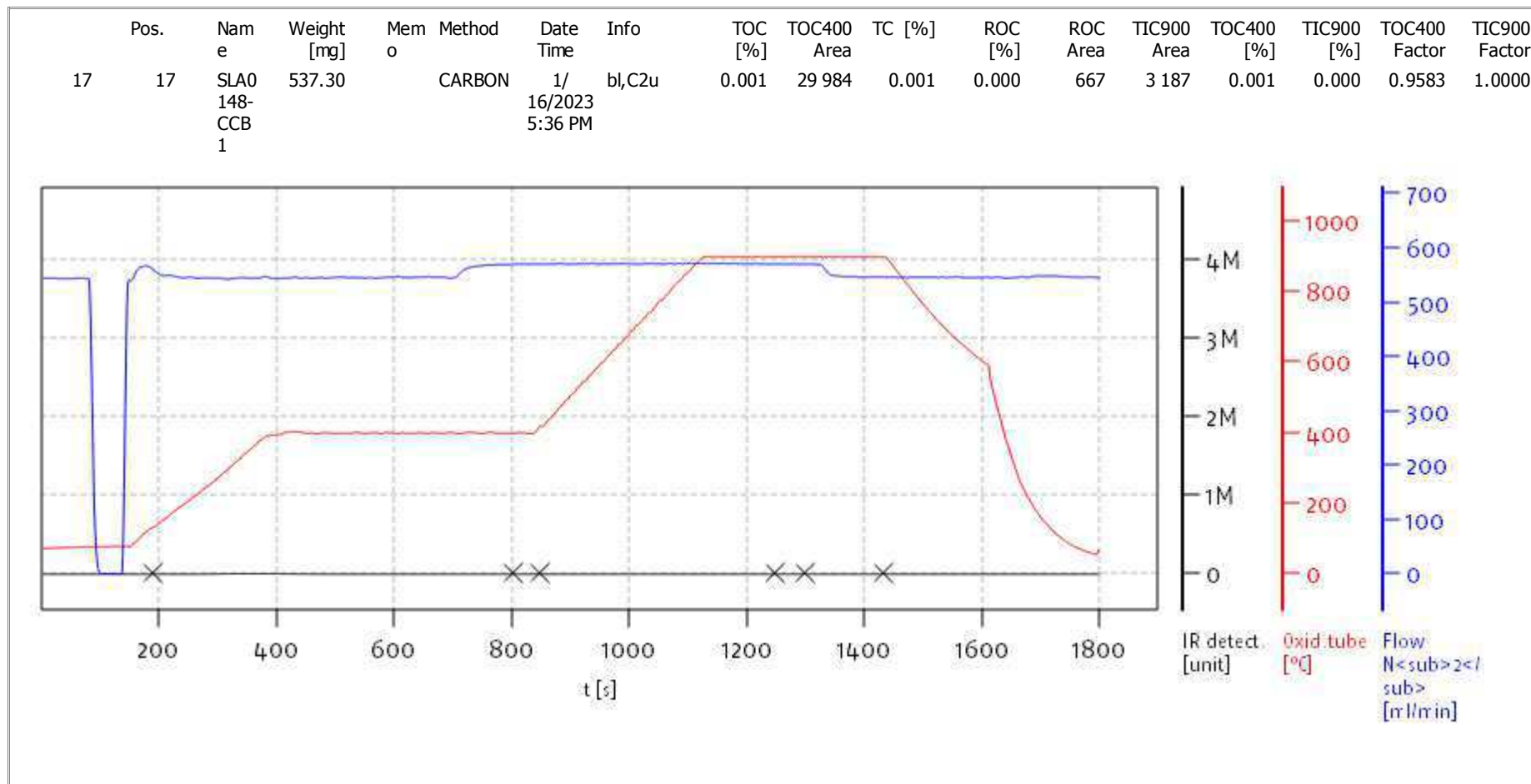
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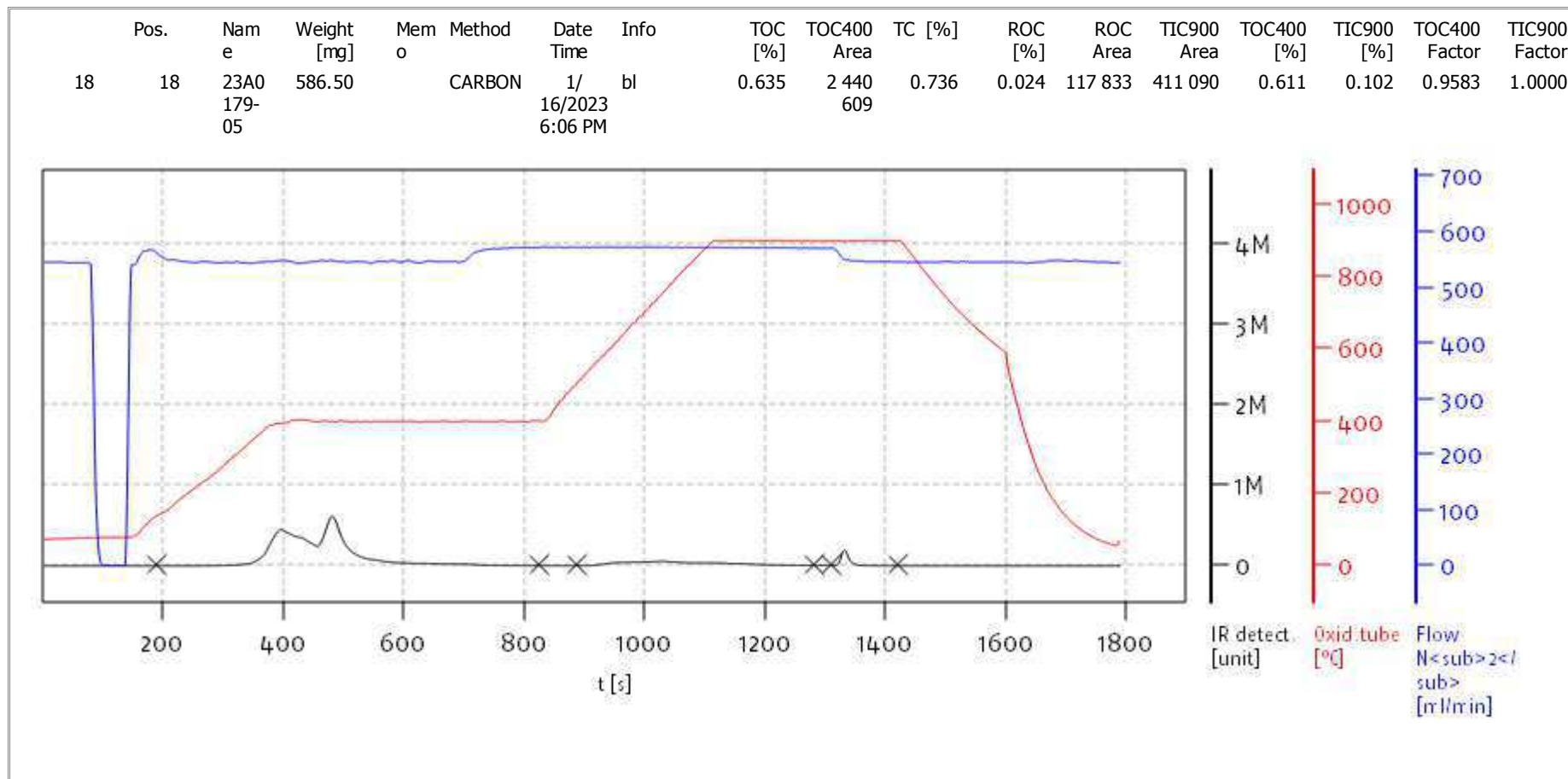
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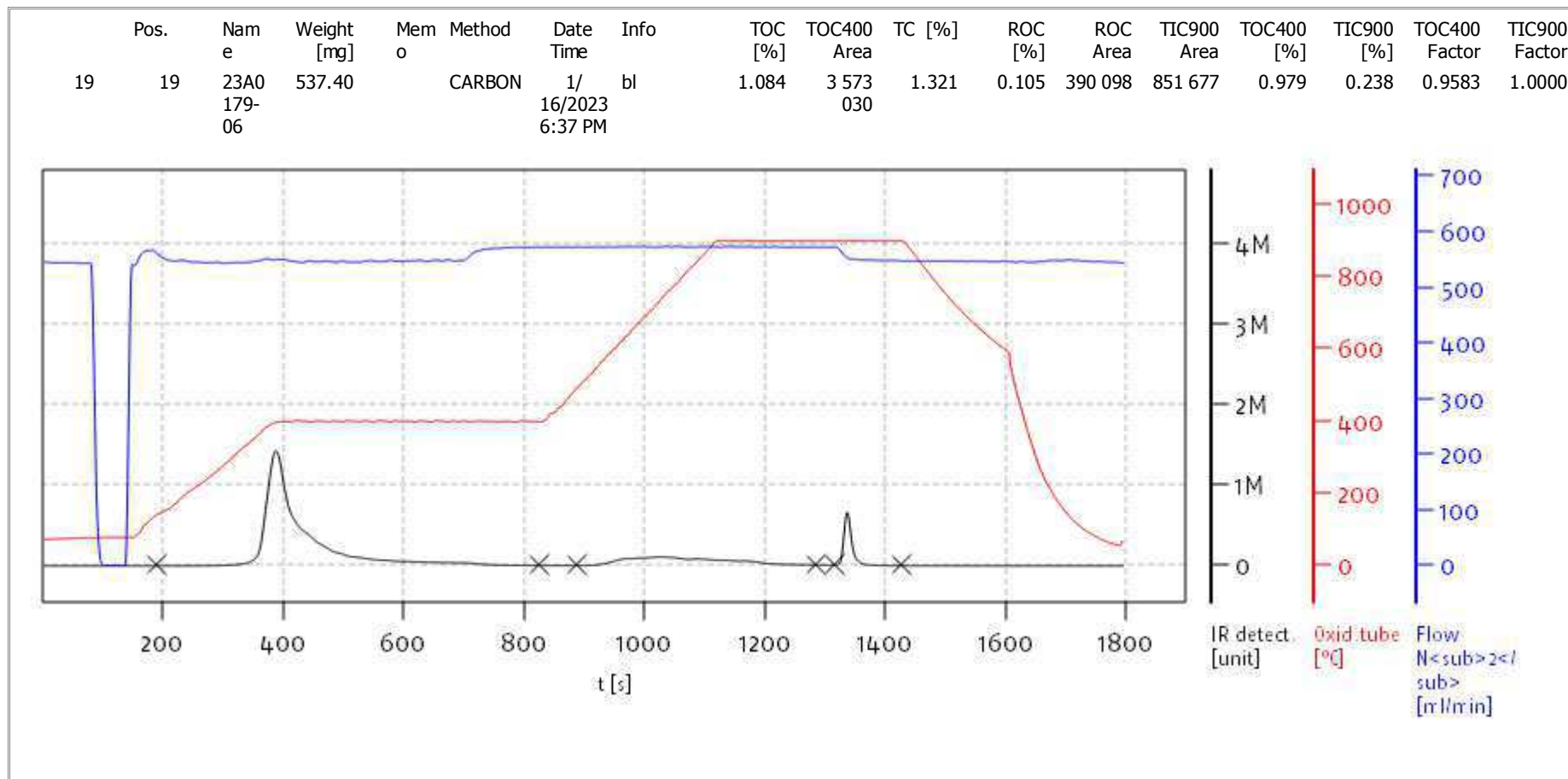
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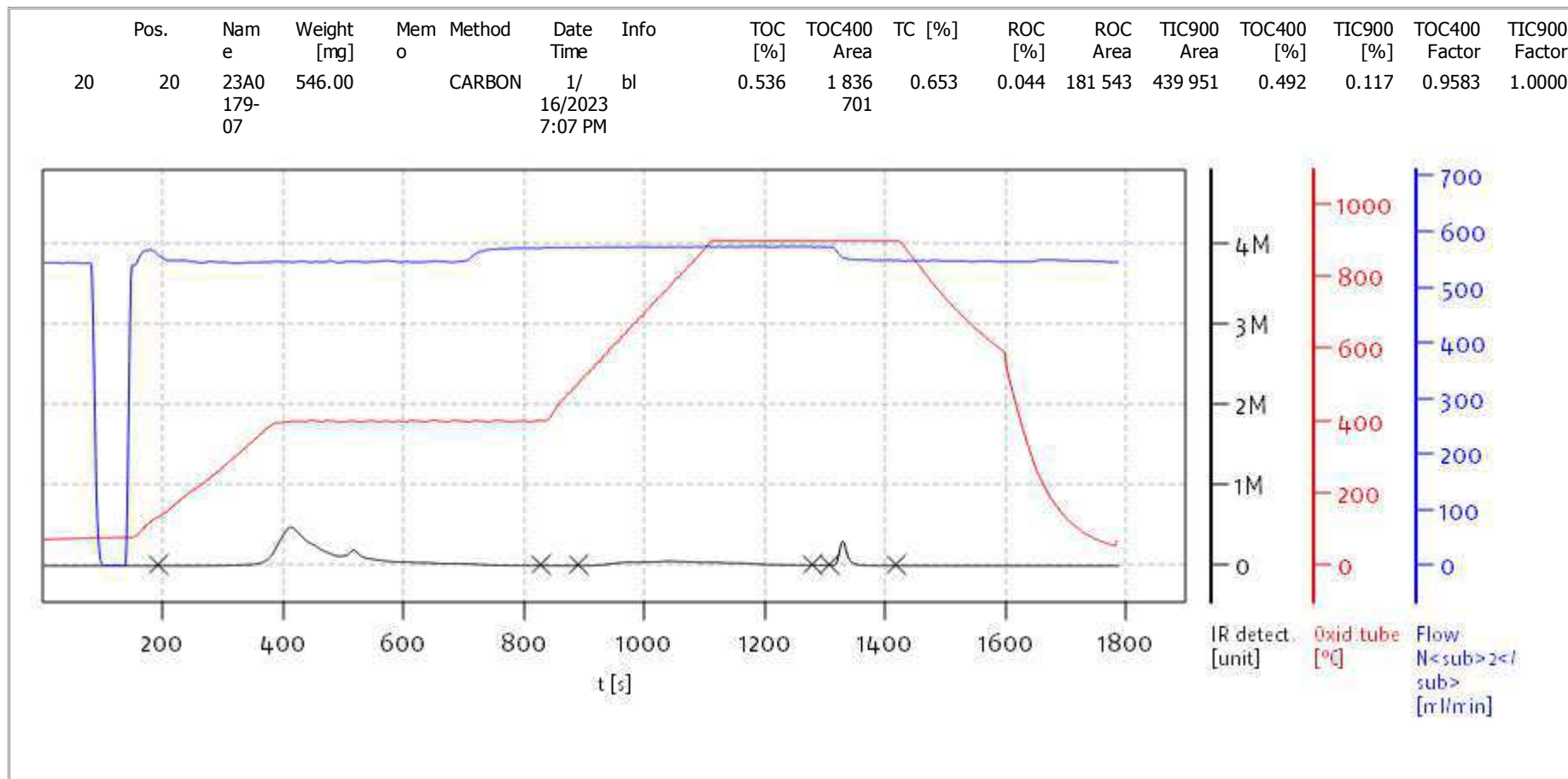
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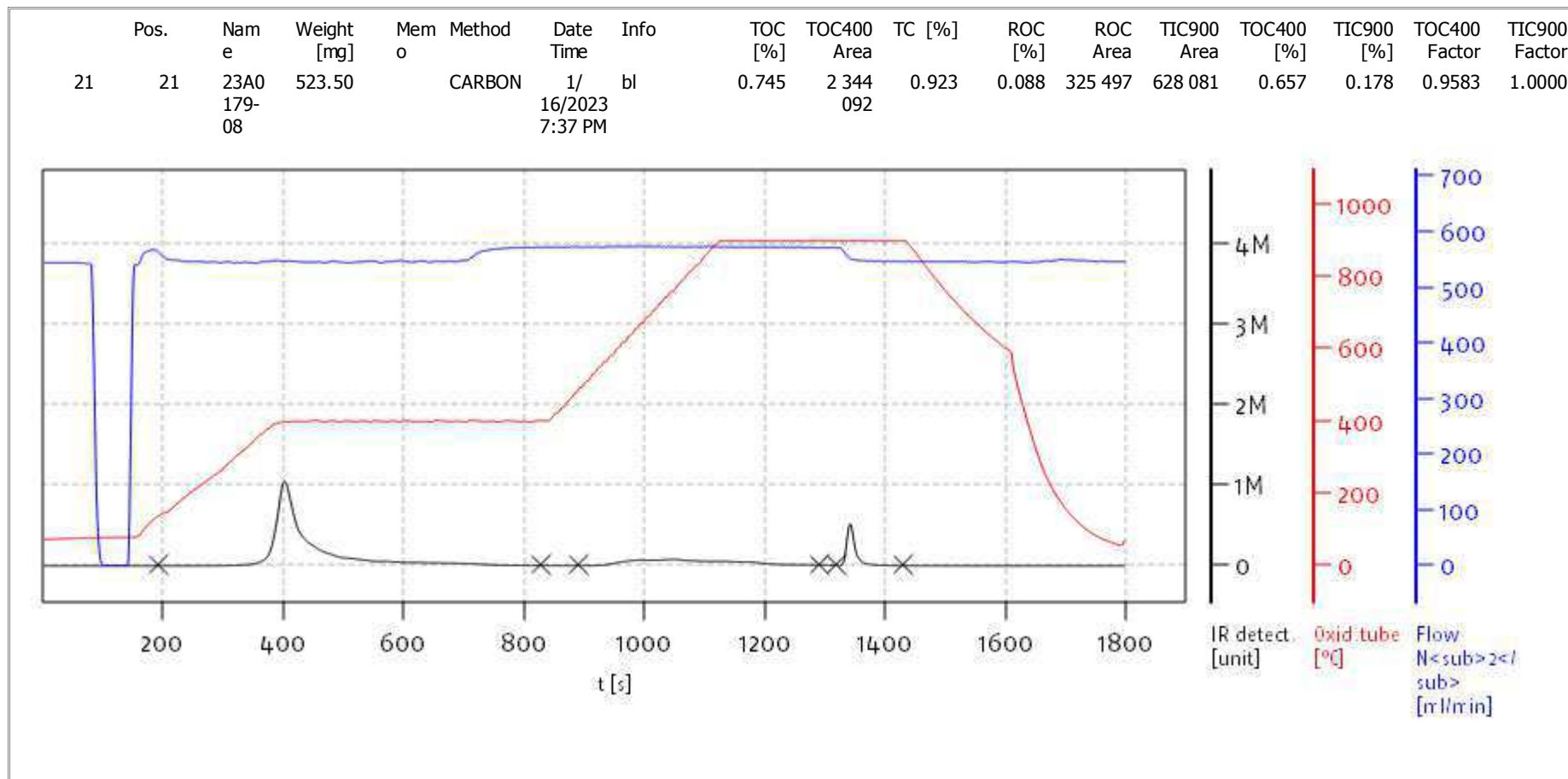
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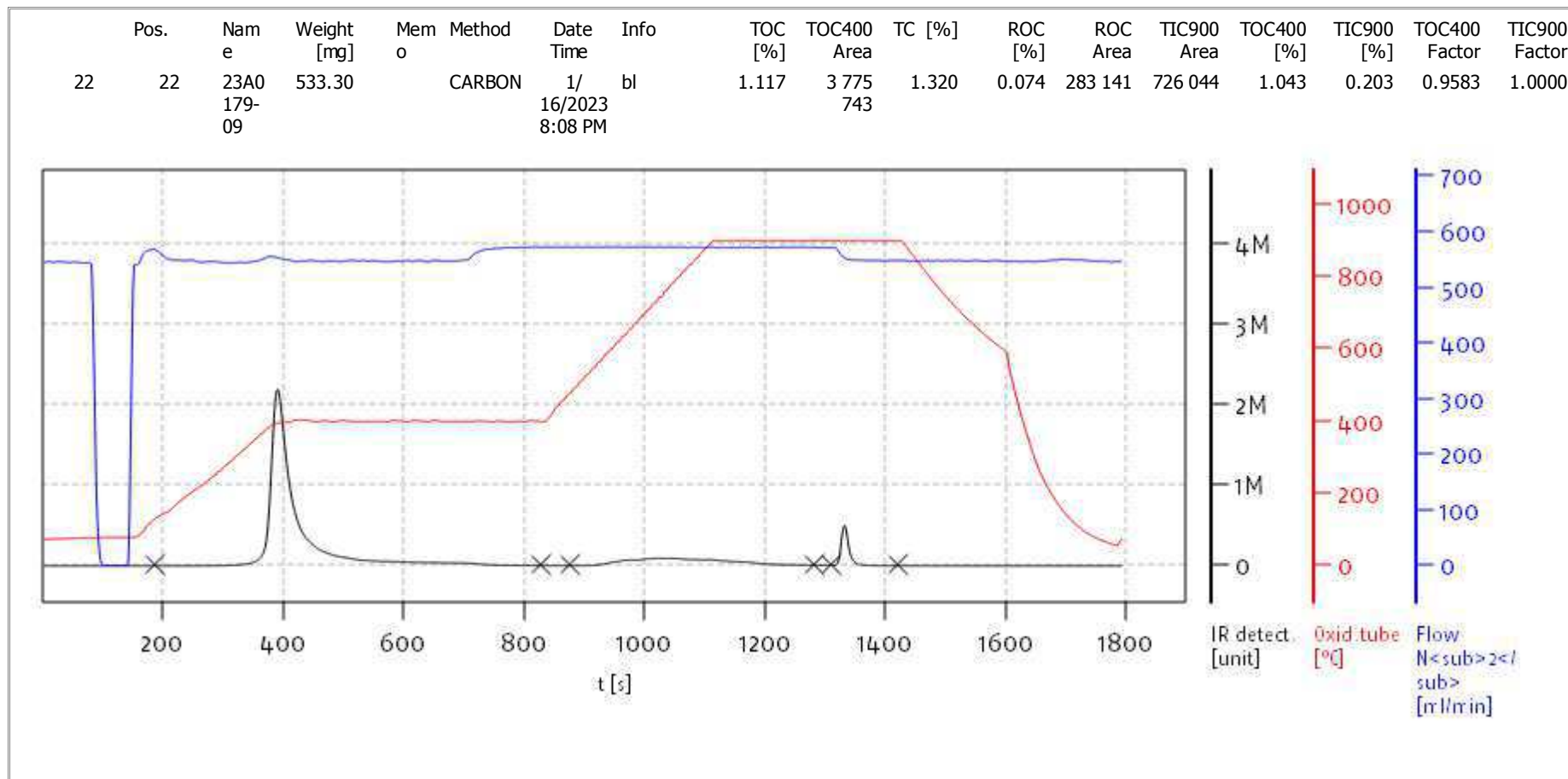
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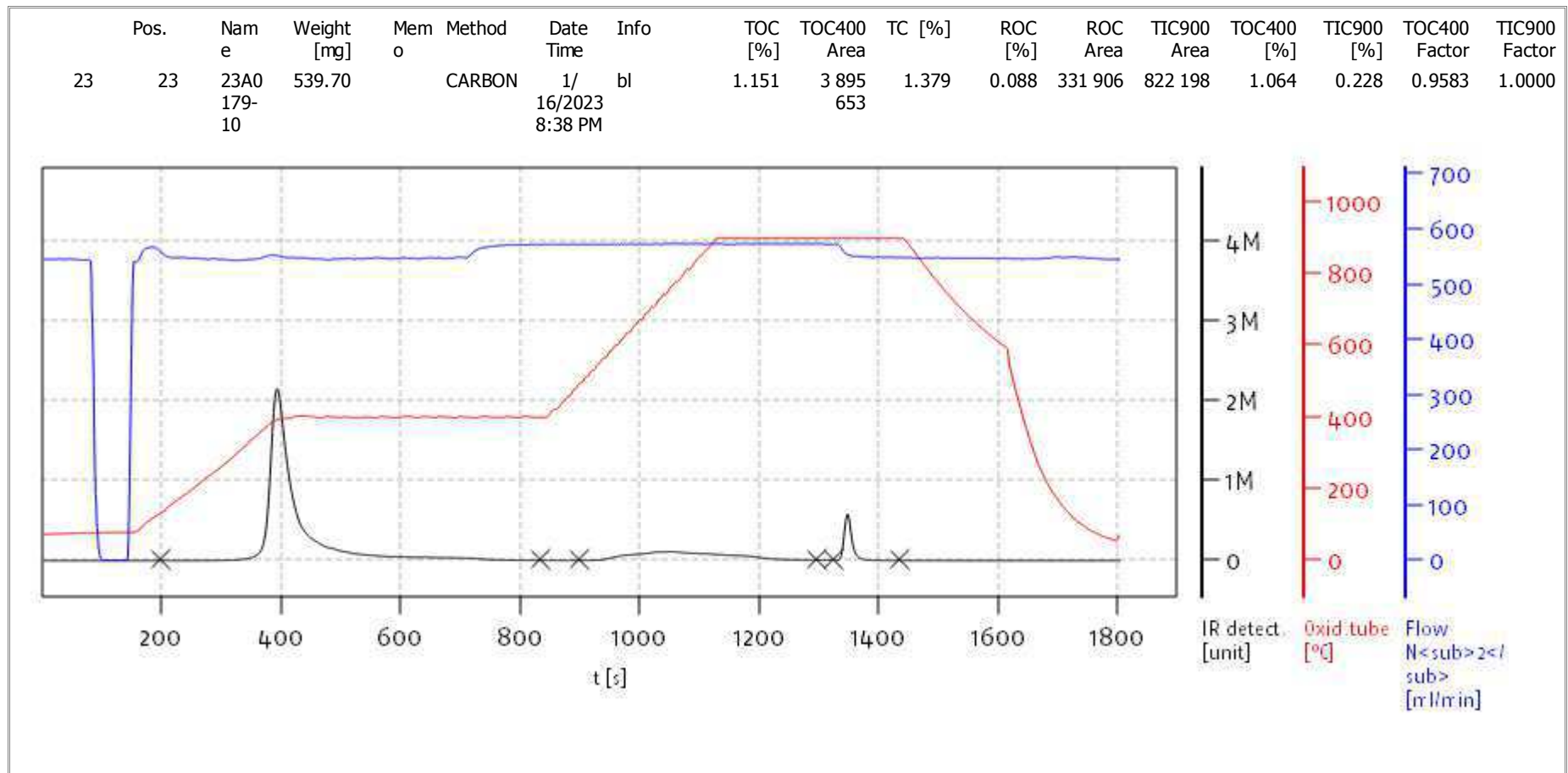
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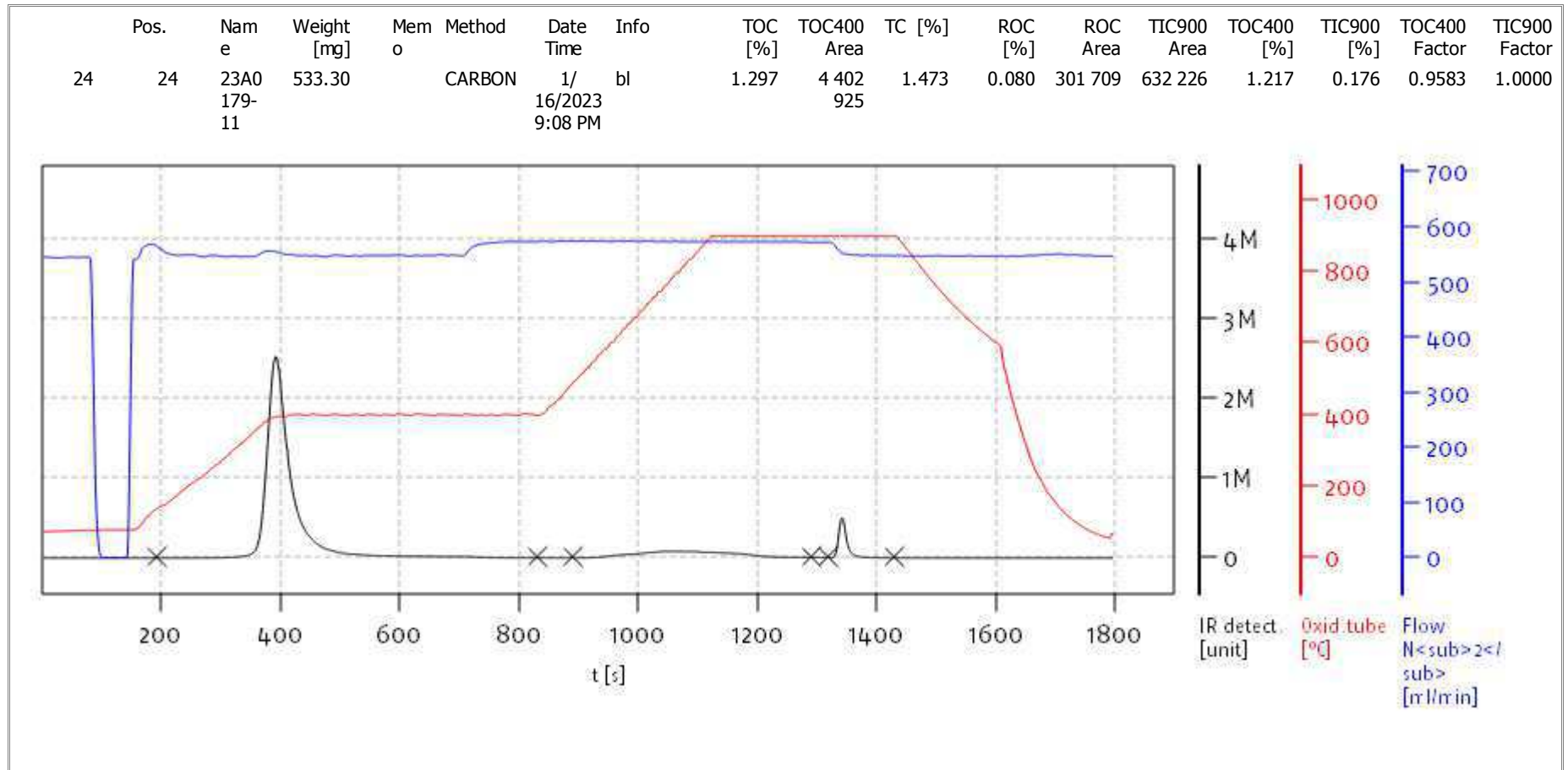
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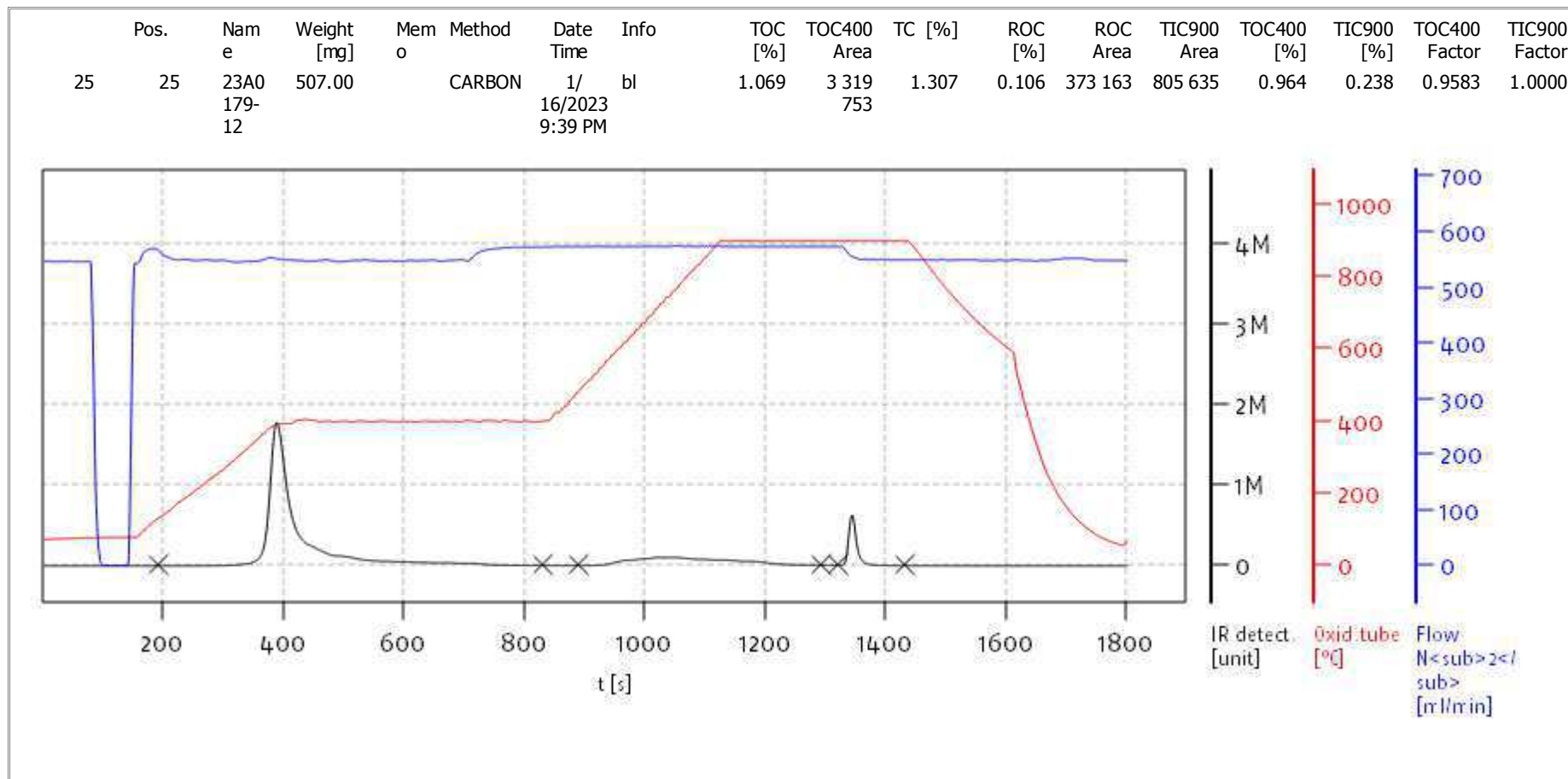
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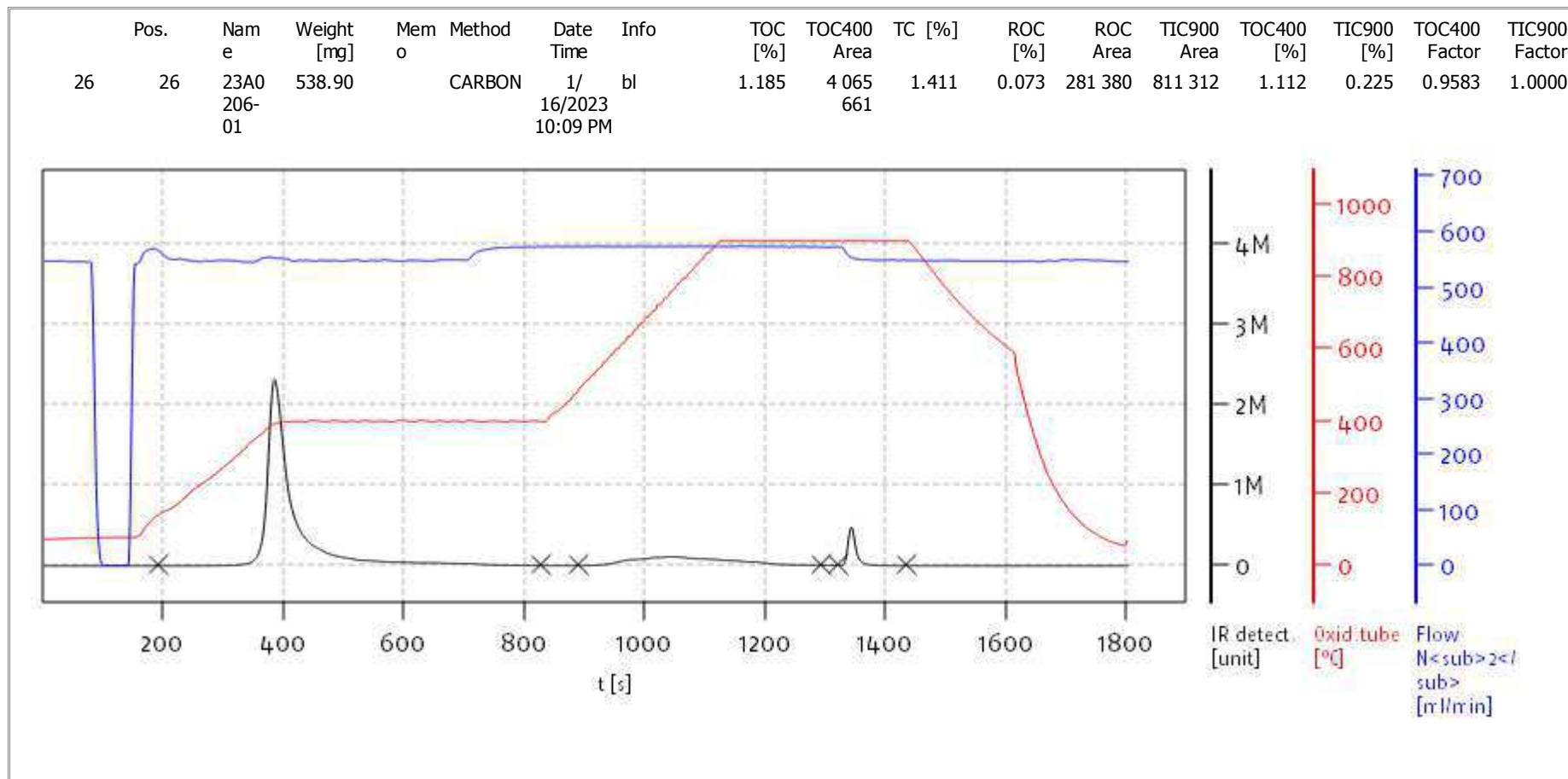
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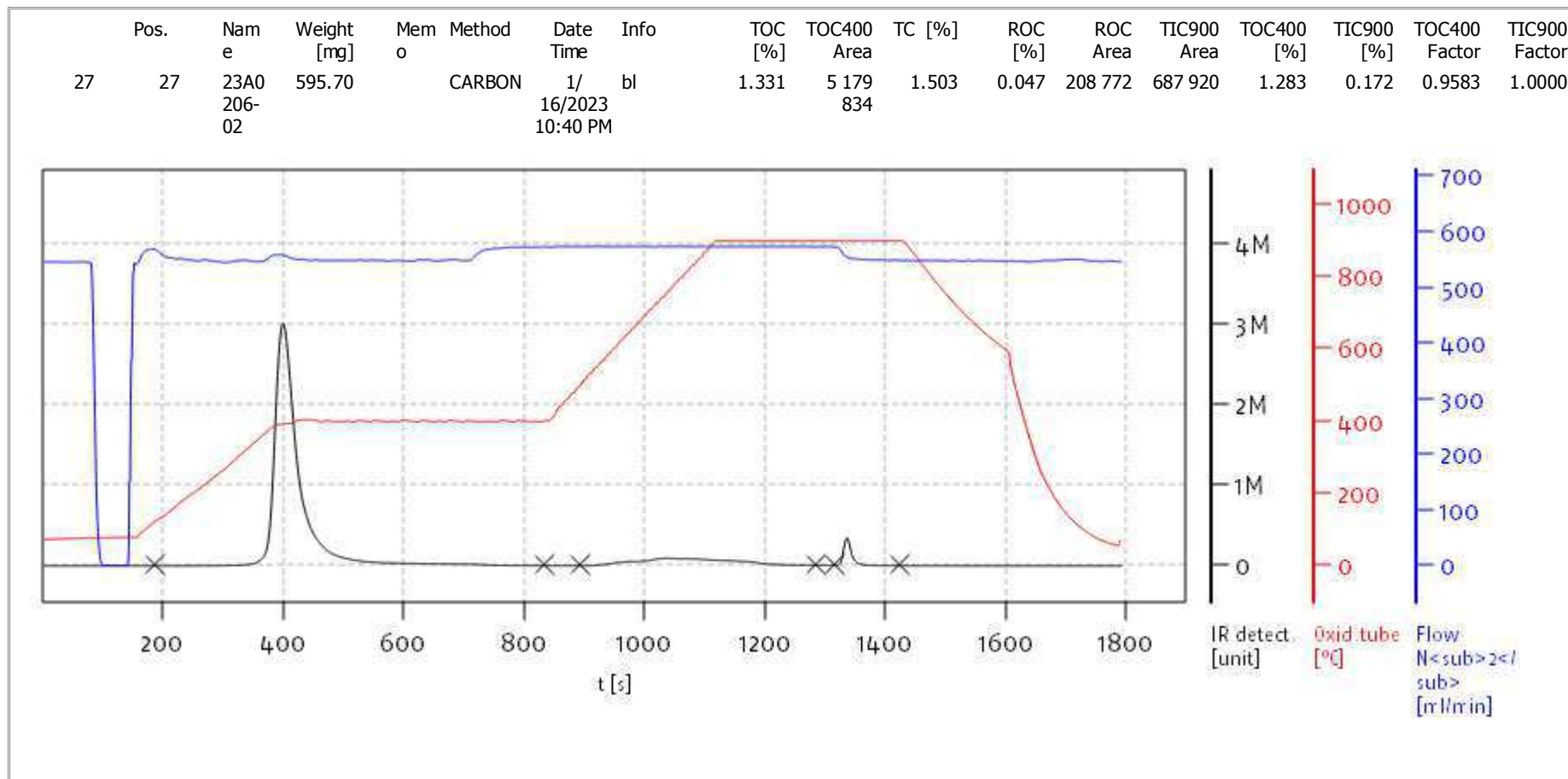
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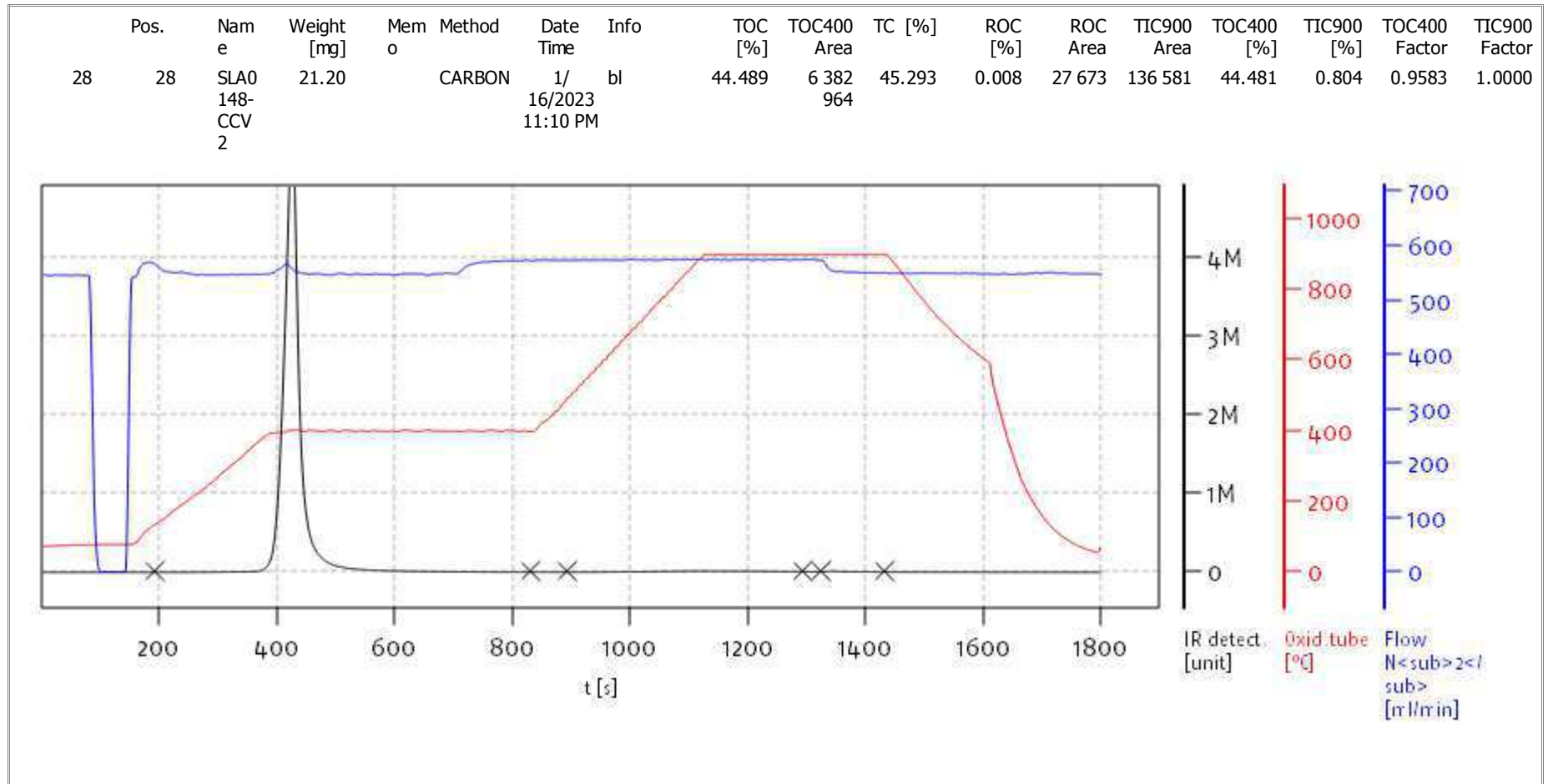
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**Soli TOC Cube, Carbon**  
**Balance: BAL3**  
**Analyst: DOE**



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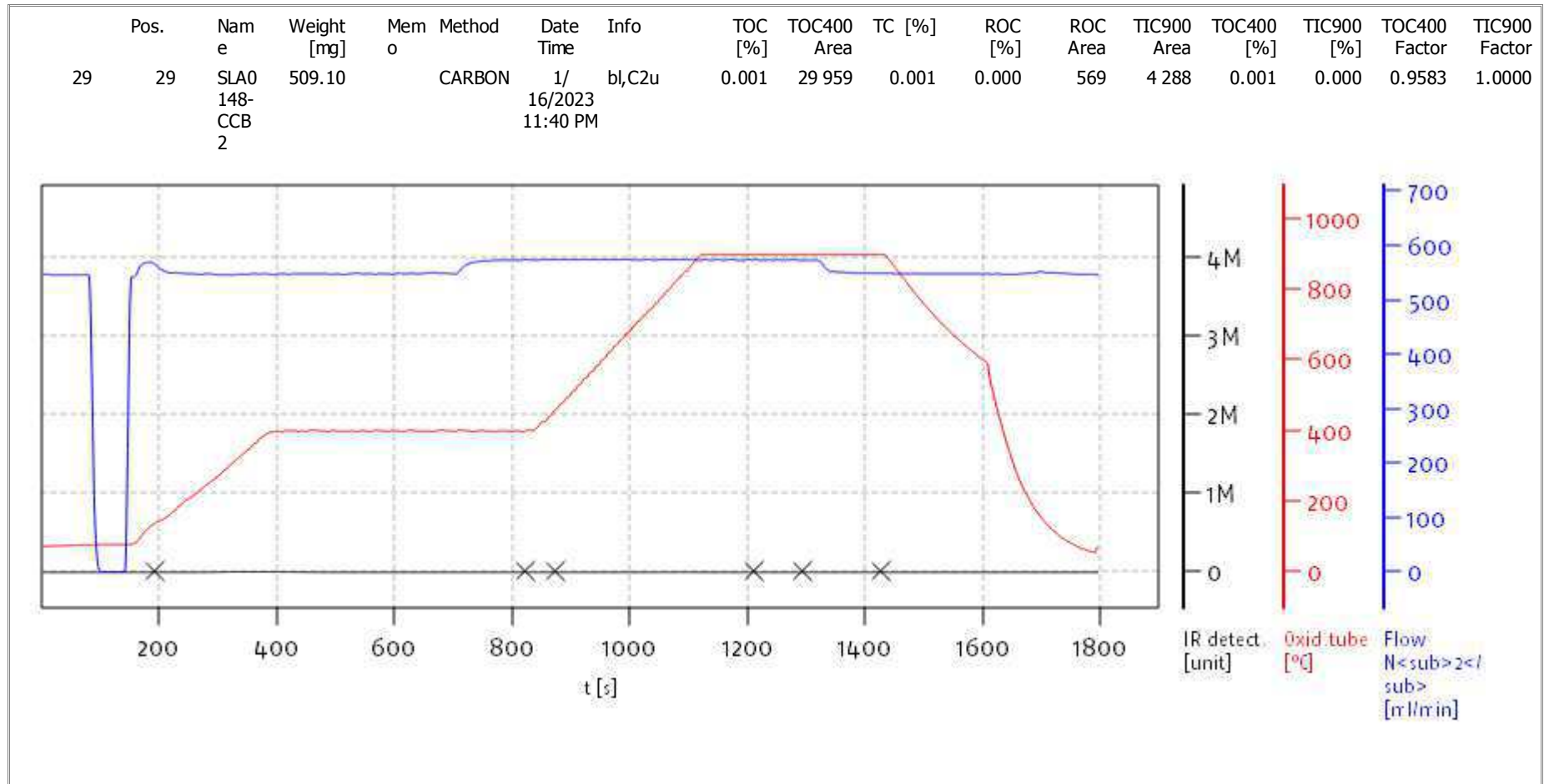
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**Soli TOC Cube, Carbon**  
**Balance: BAL3**  
**Analyst: DOE**



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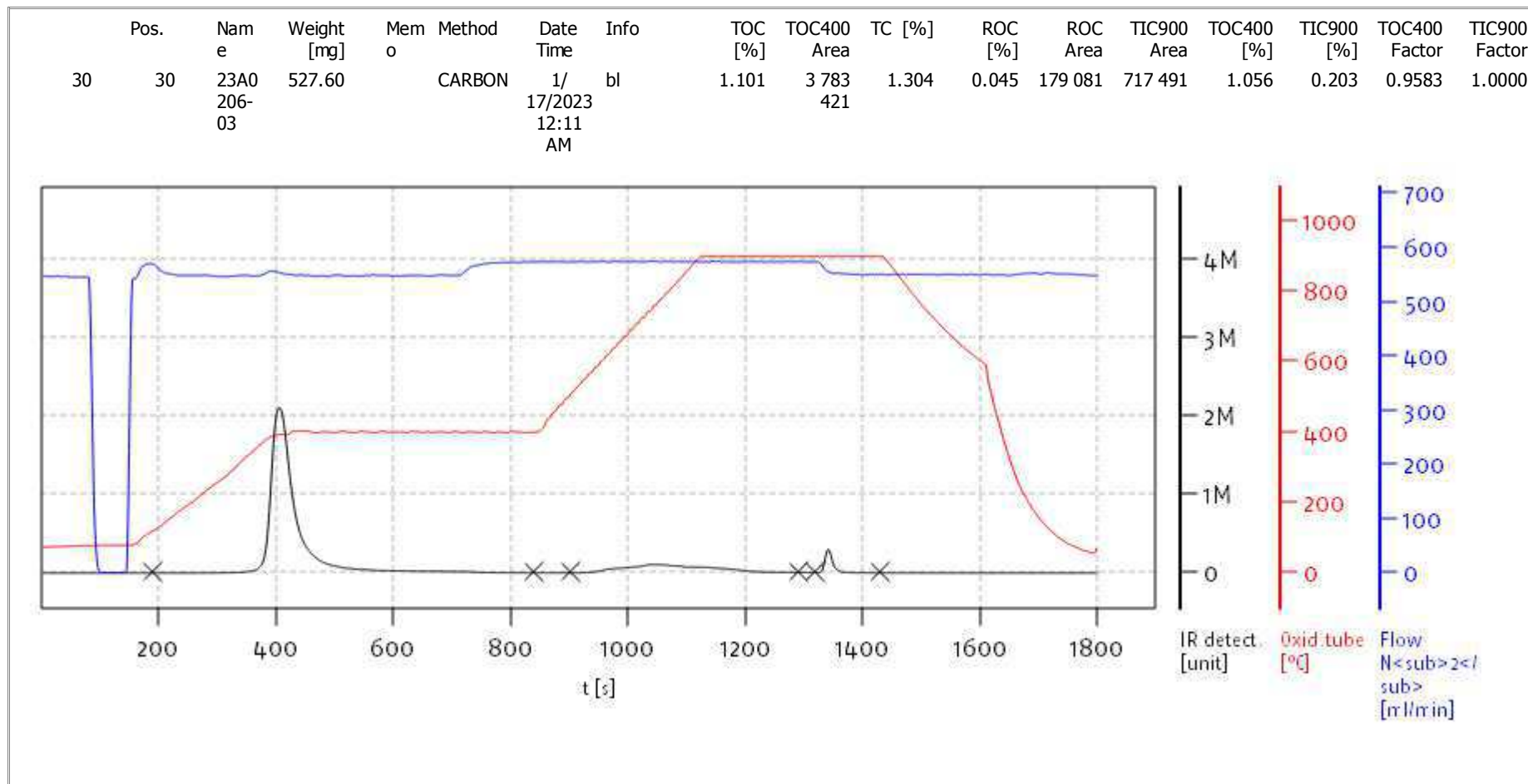
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Soli TOC Cube, Carbon  
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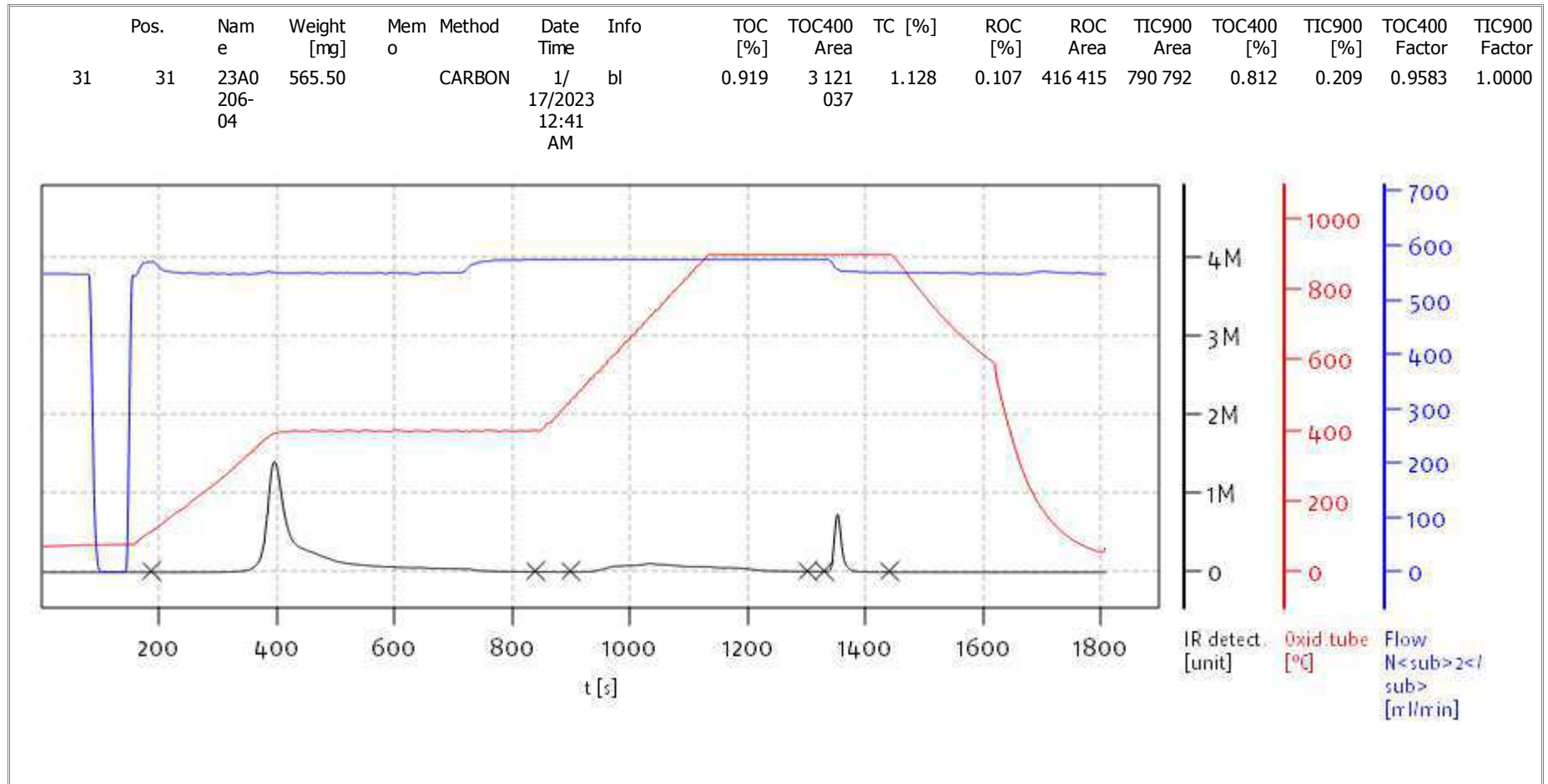
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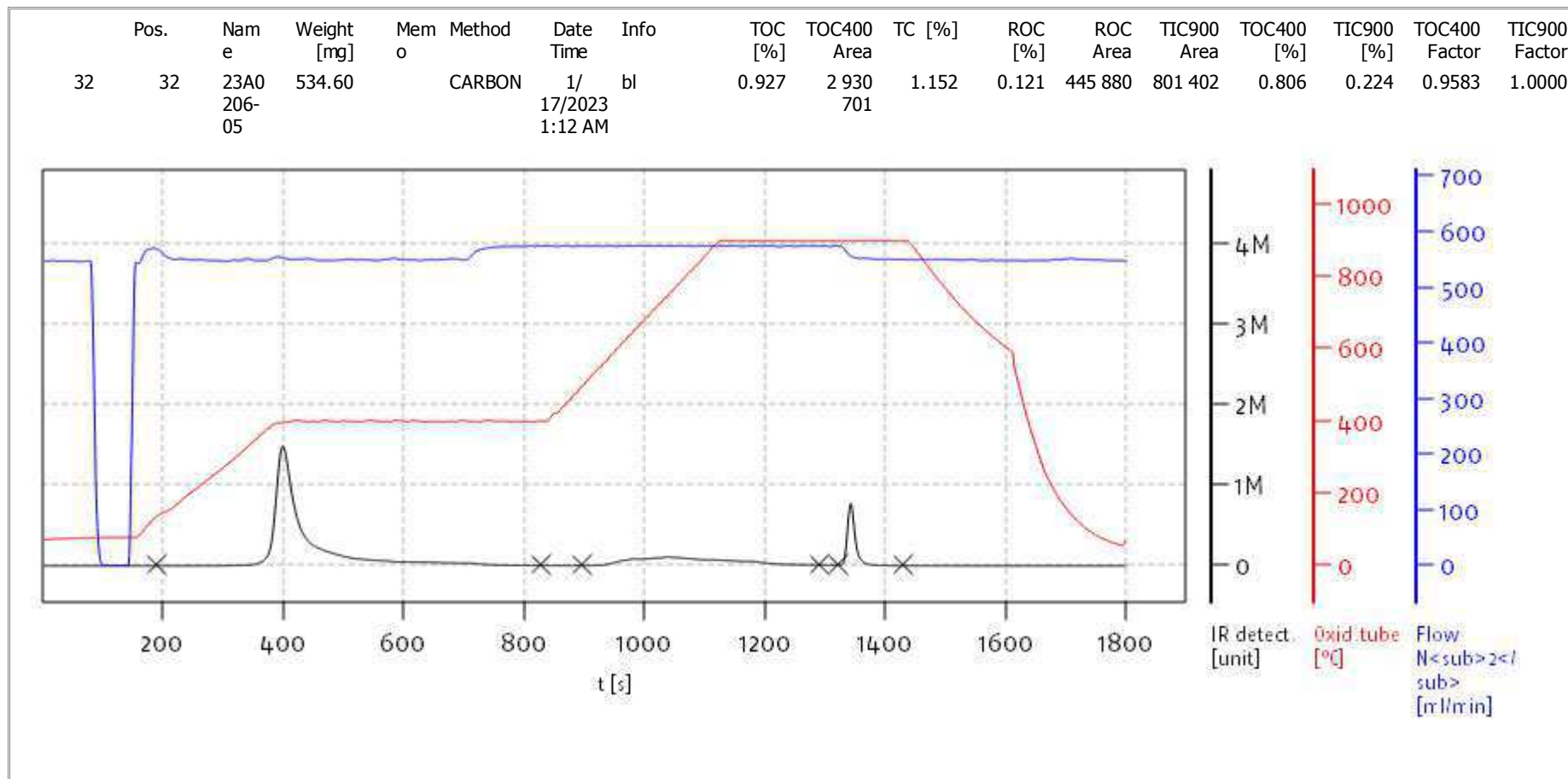
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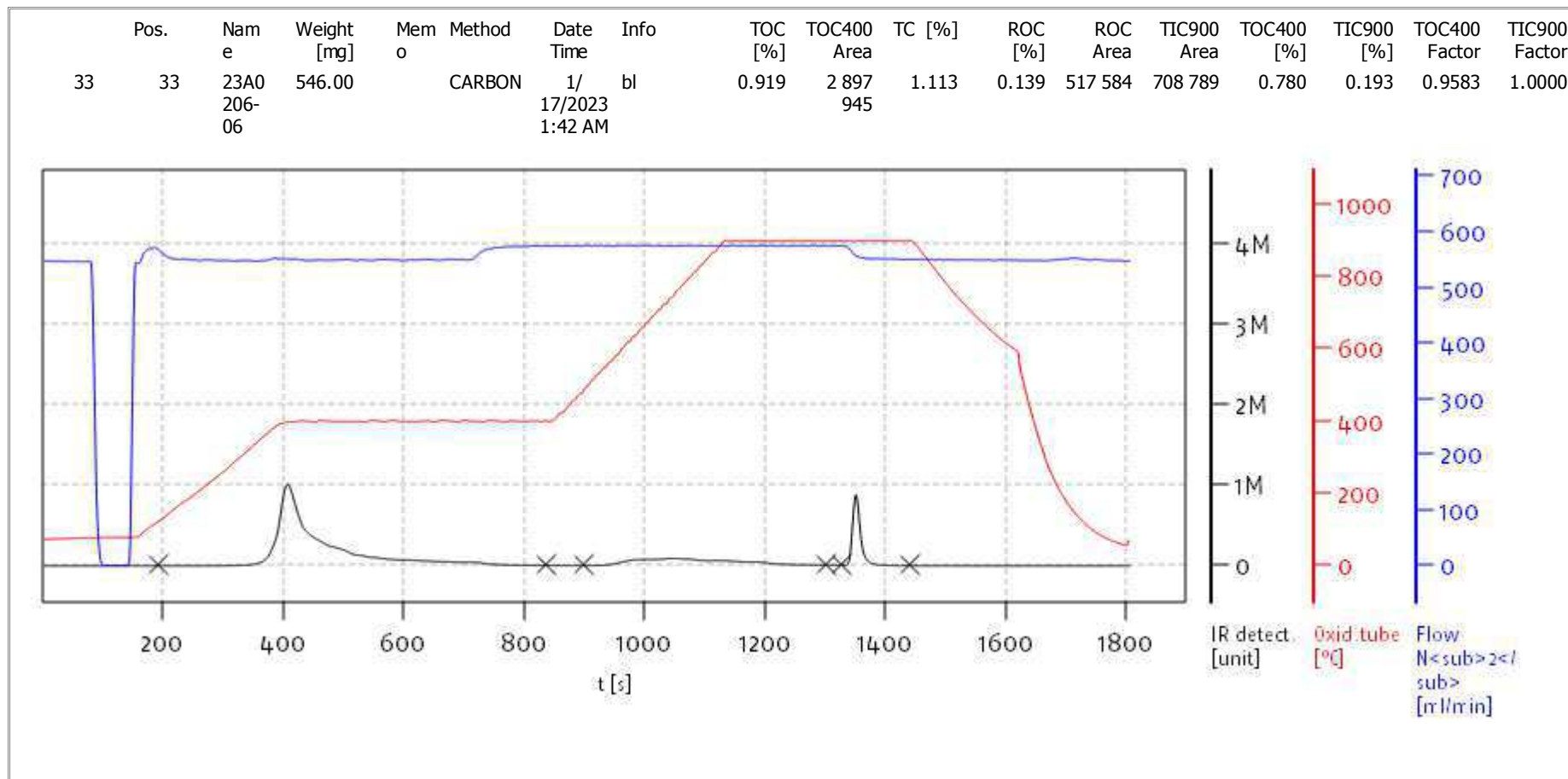
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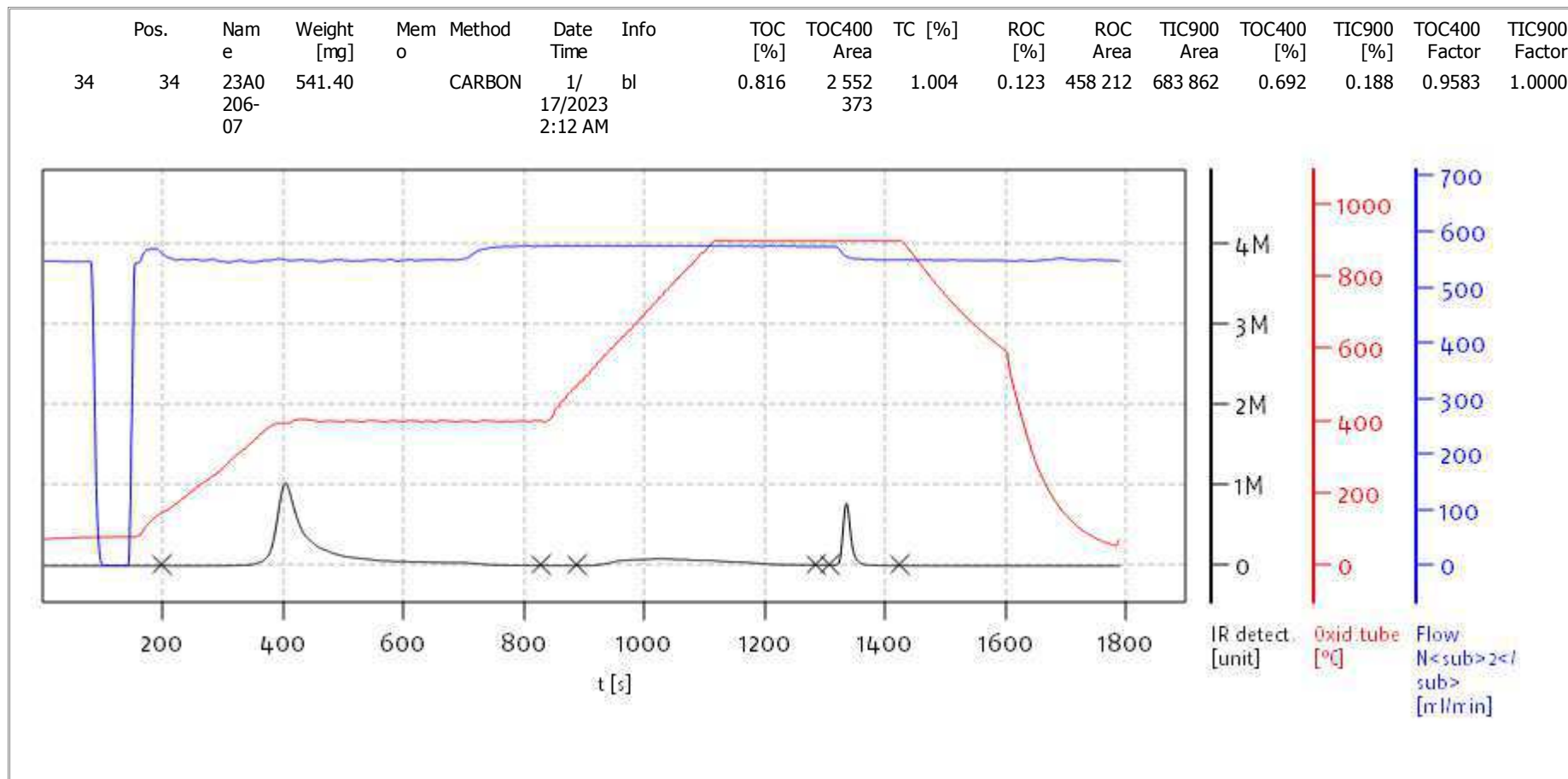
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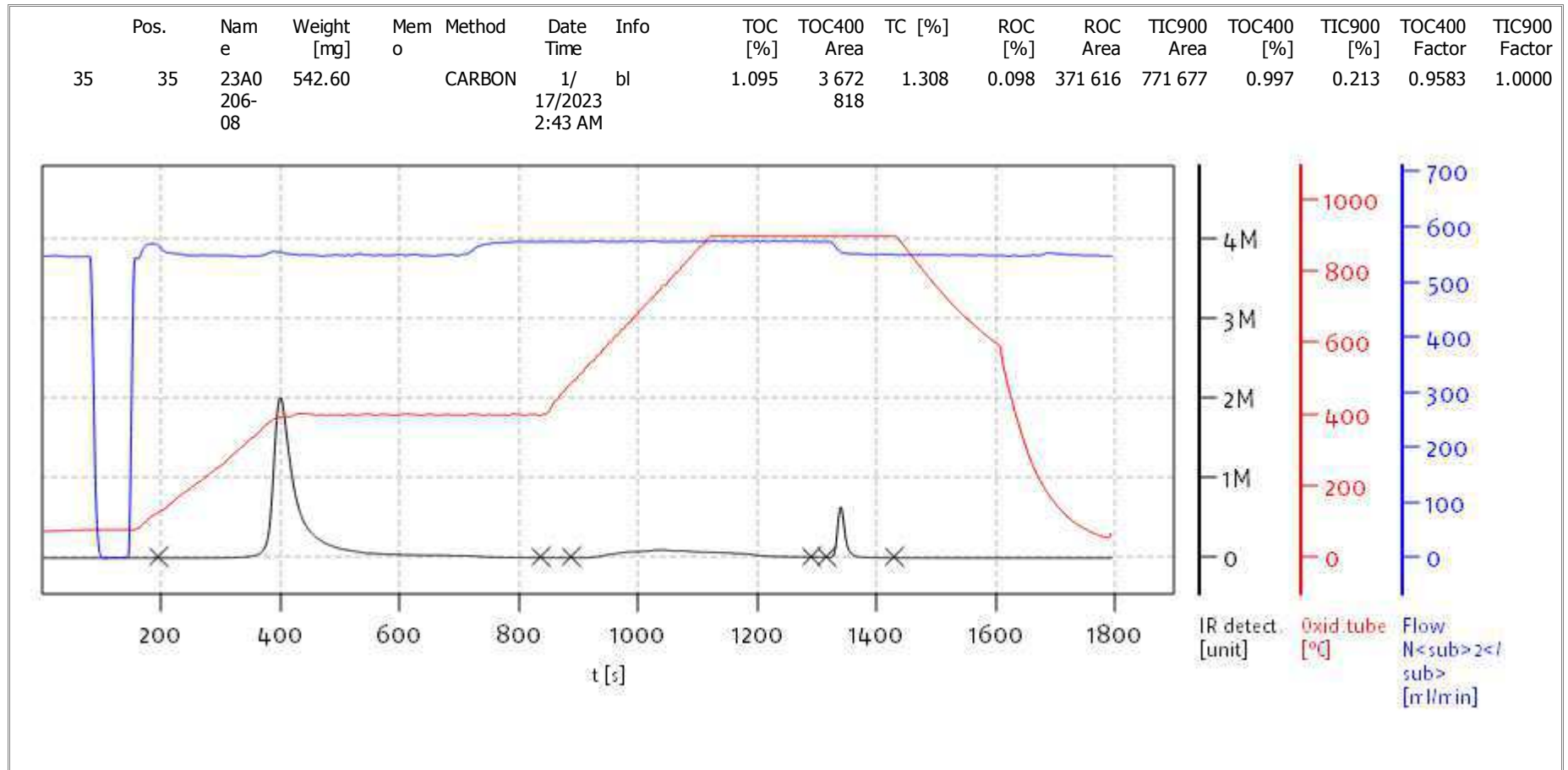
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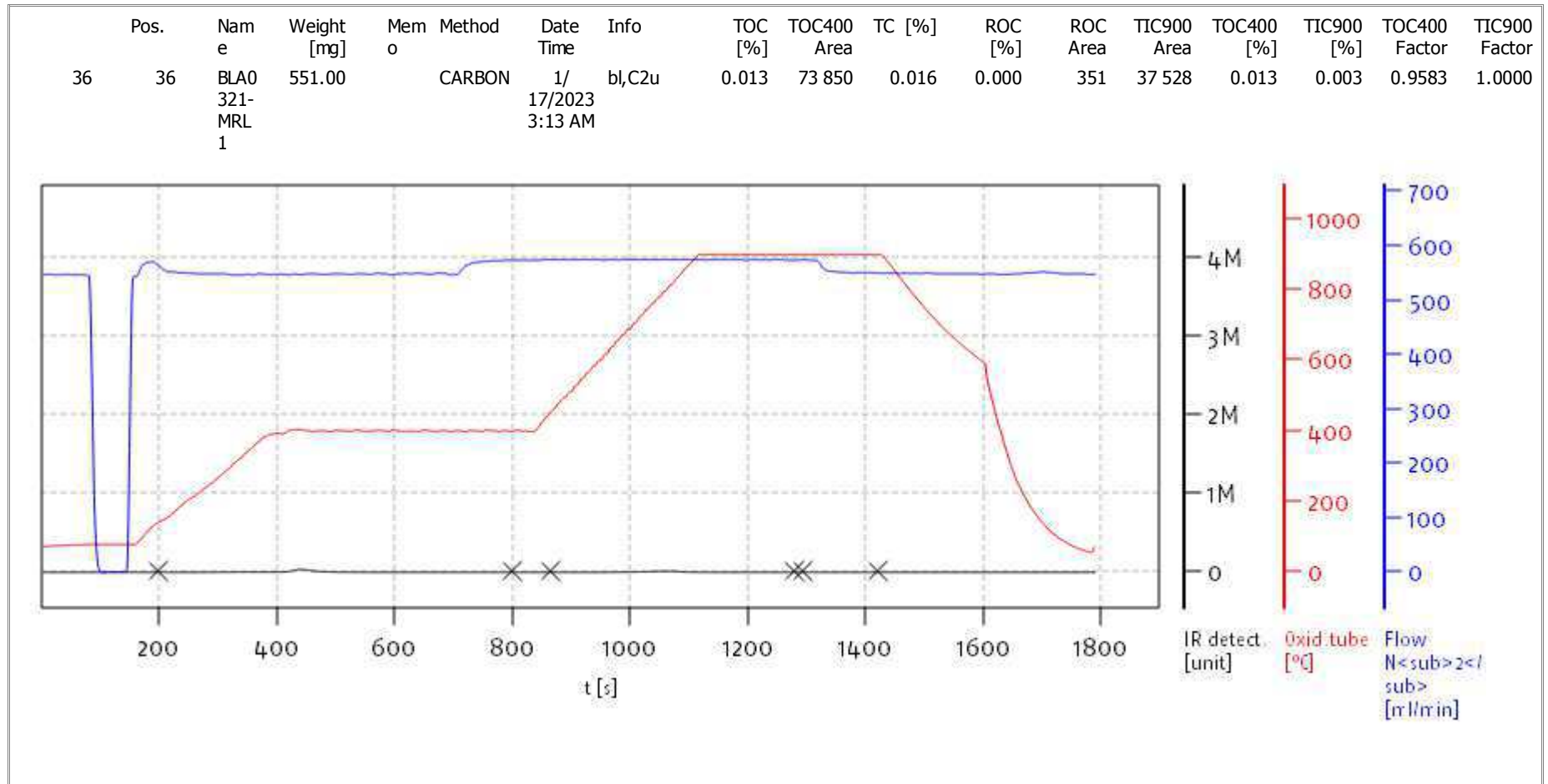
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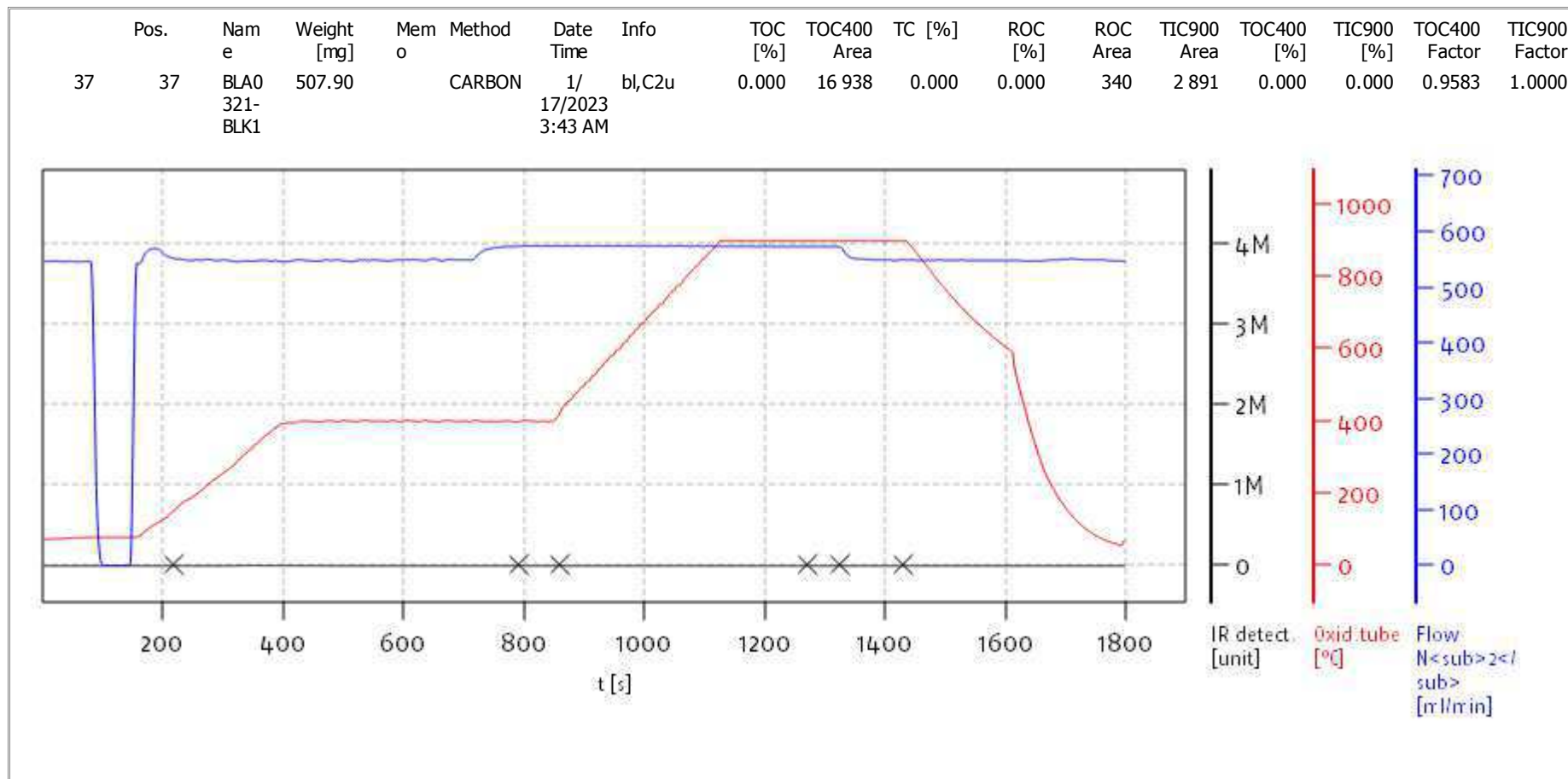
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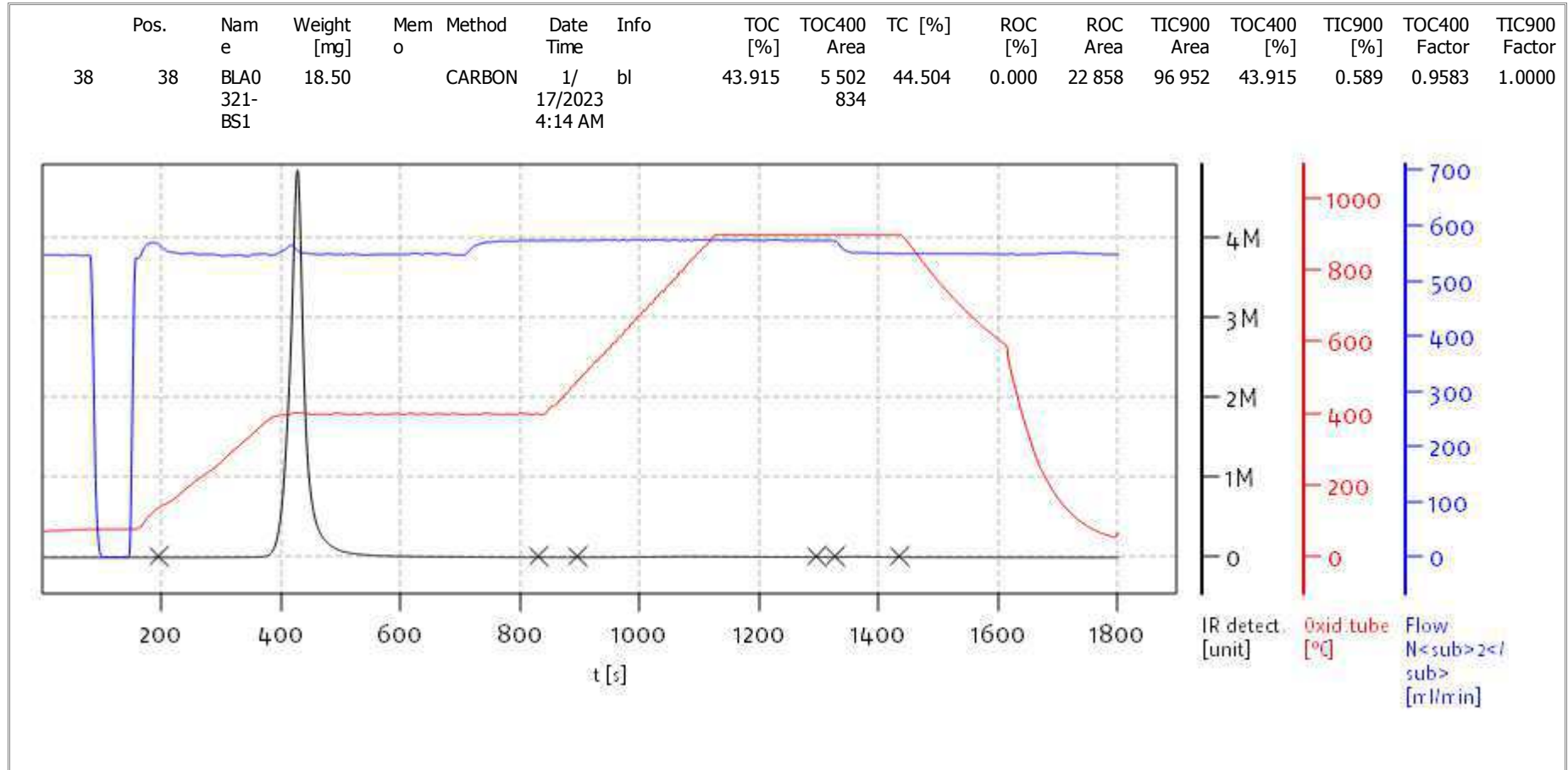
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**Soli TOC Cube, Carbon**  
**Balance: BAL3**  
**Analyst: DOE**



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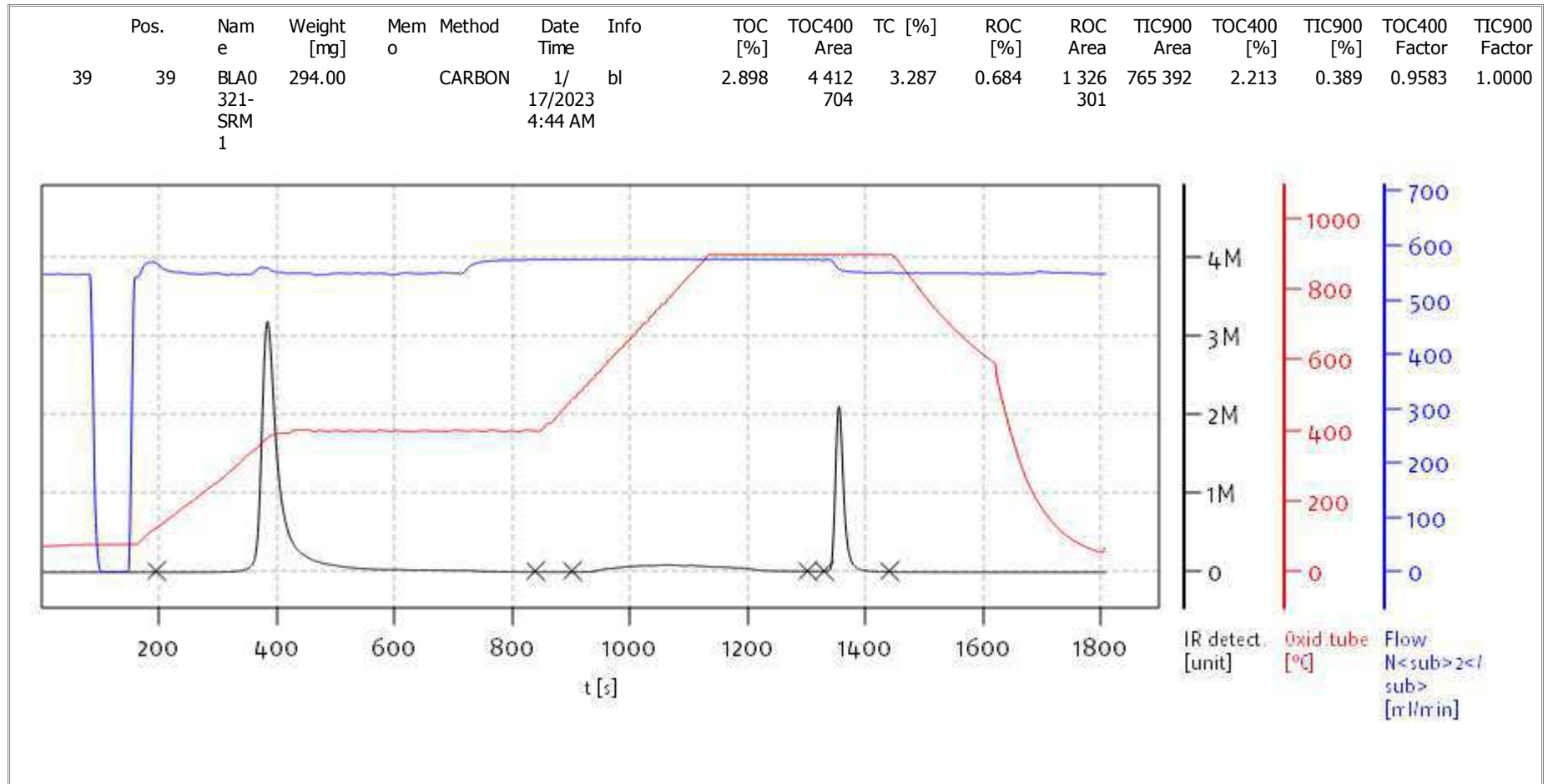
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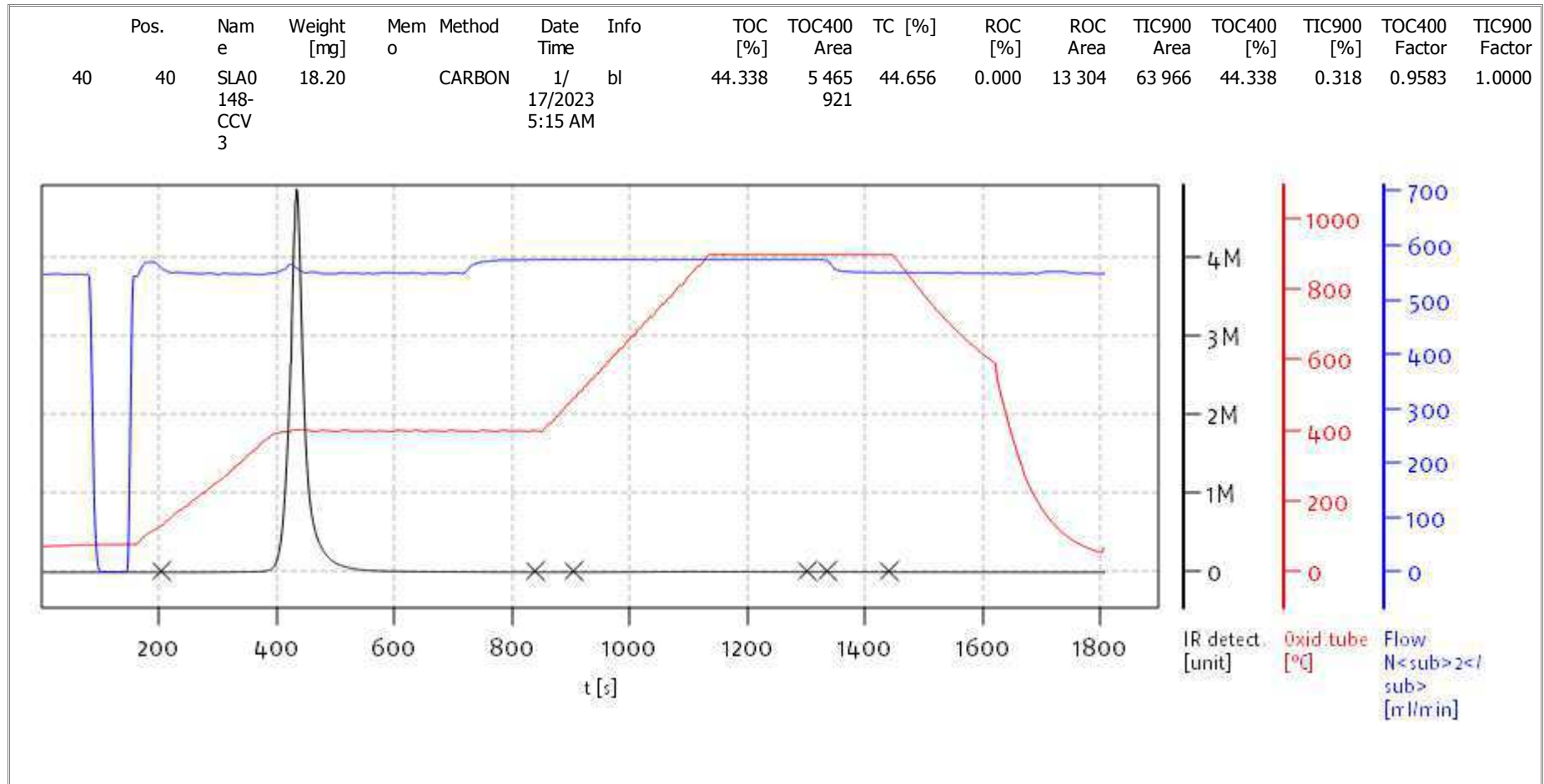


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**Soli TOC Cube, Carbon**  
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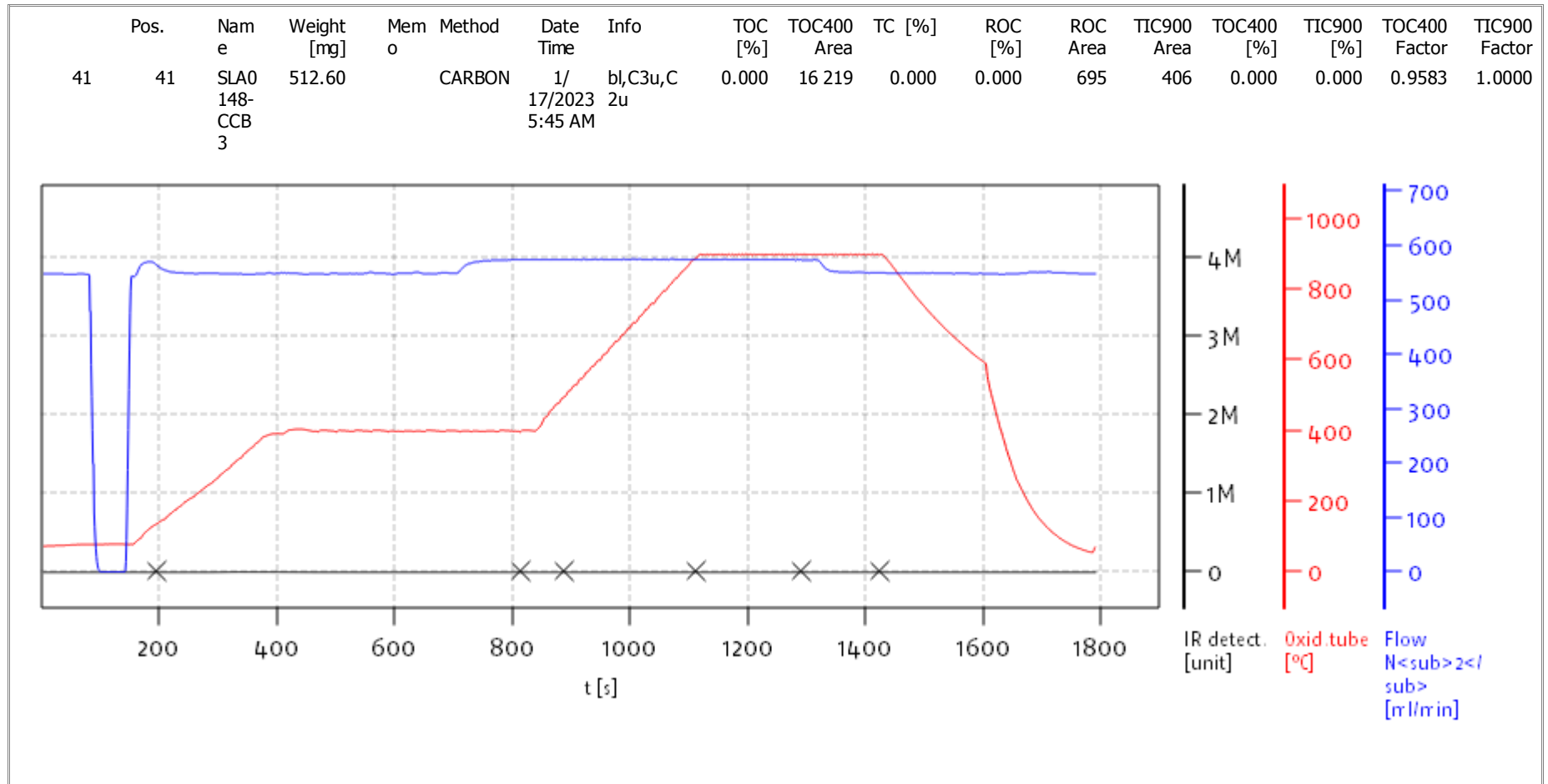
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**Balance: BAL3**  
**Analyst: DOE**



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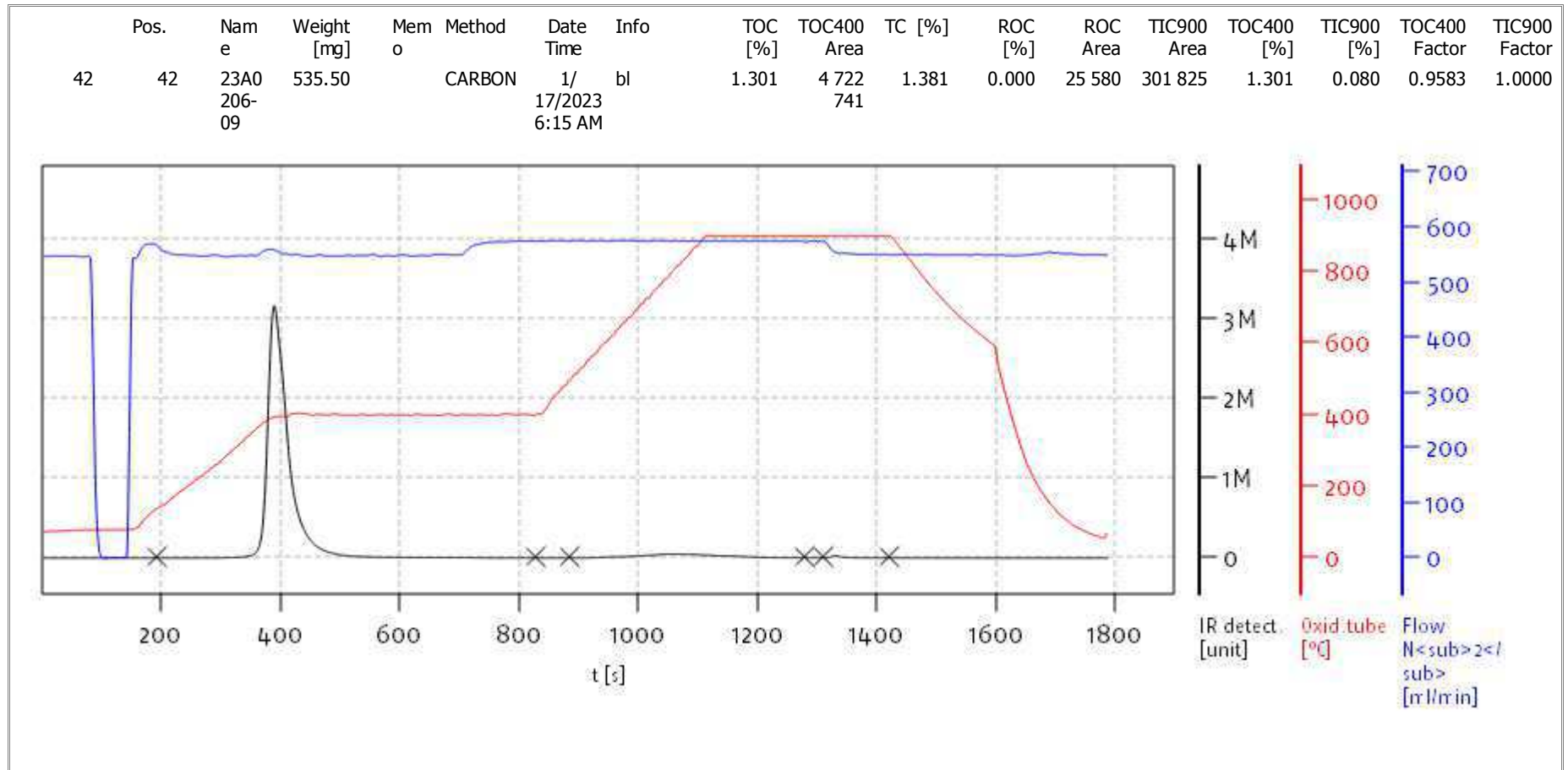
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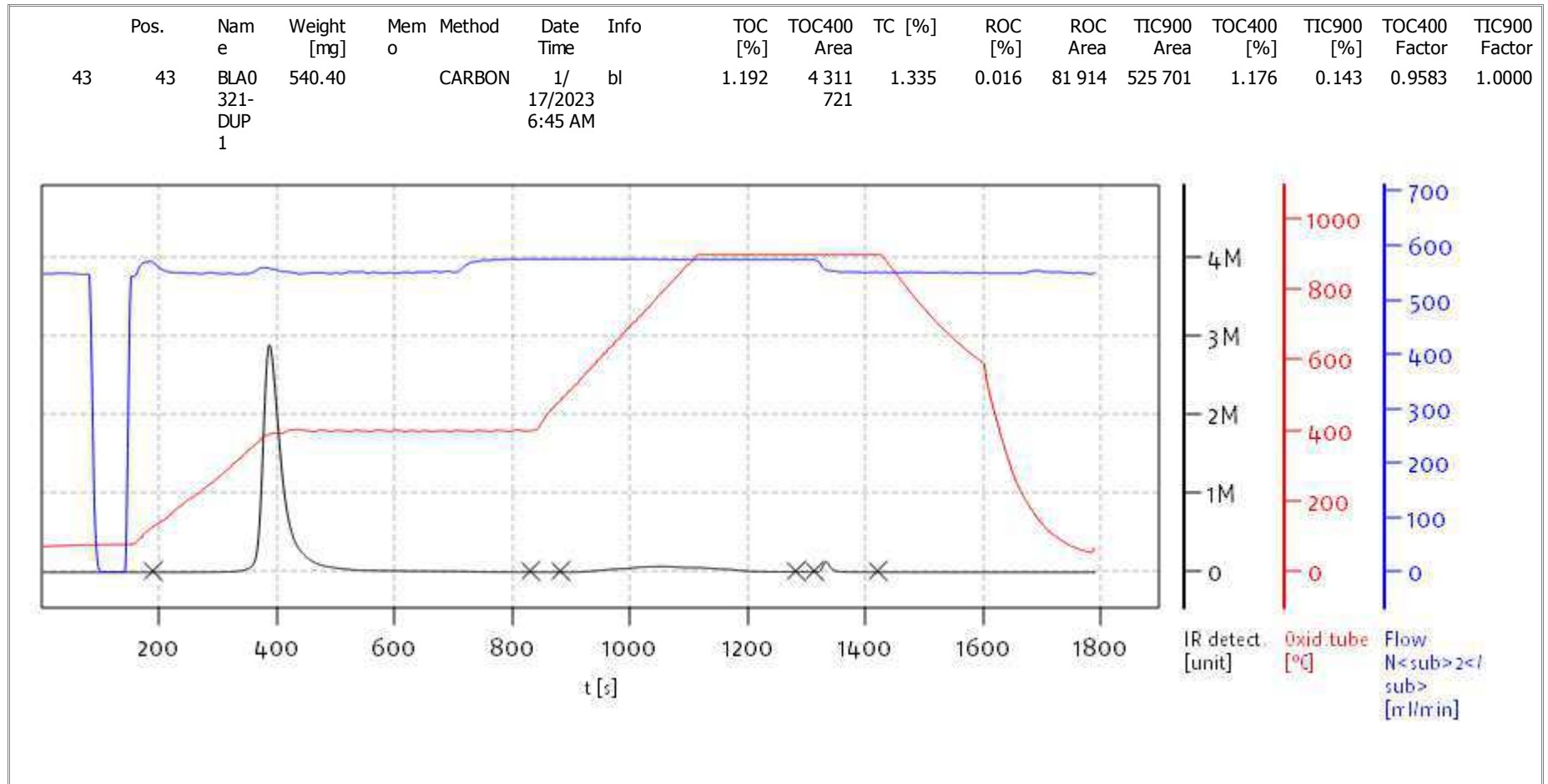
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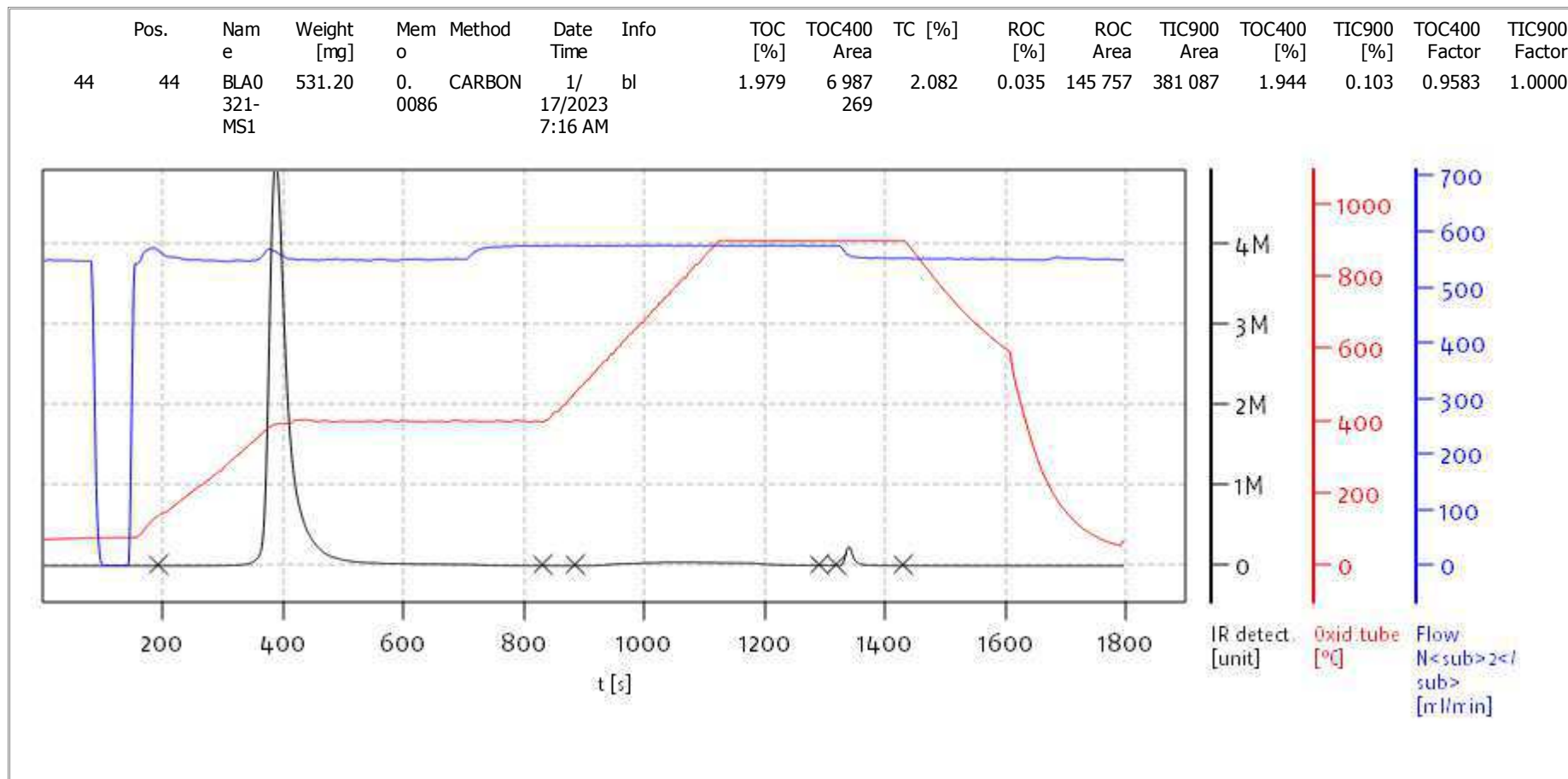
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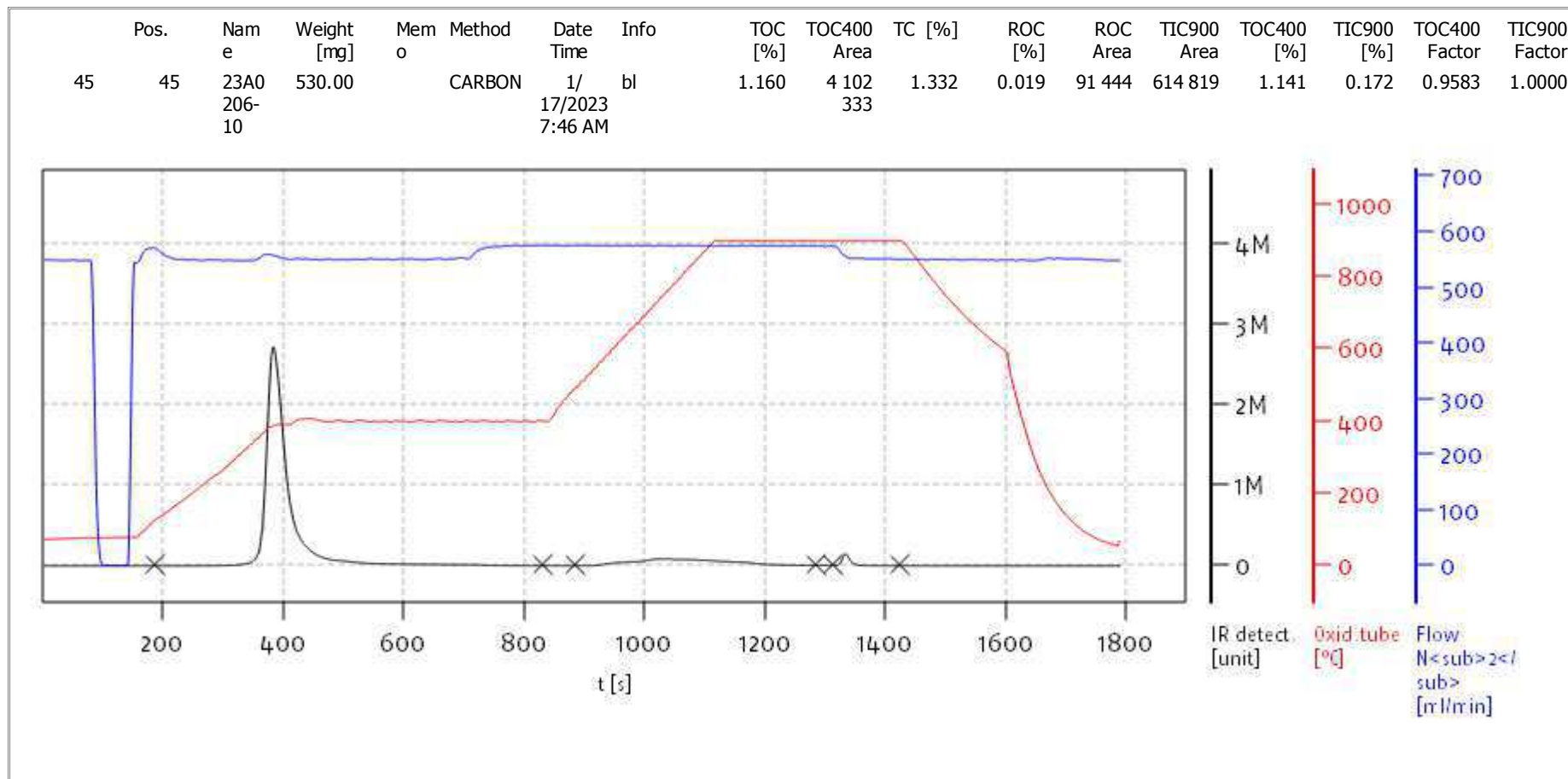
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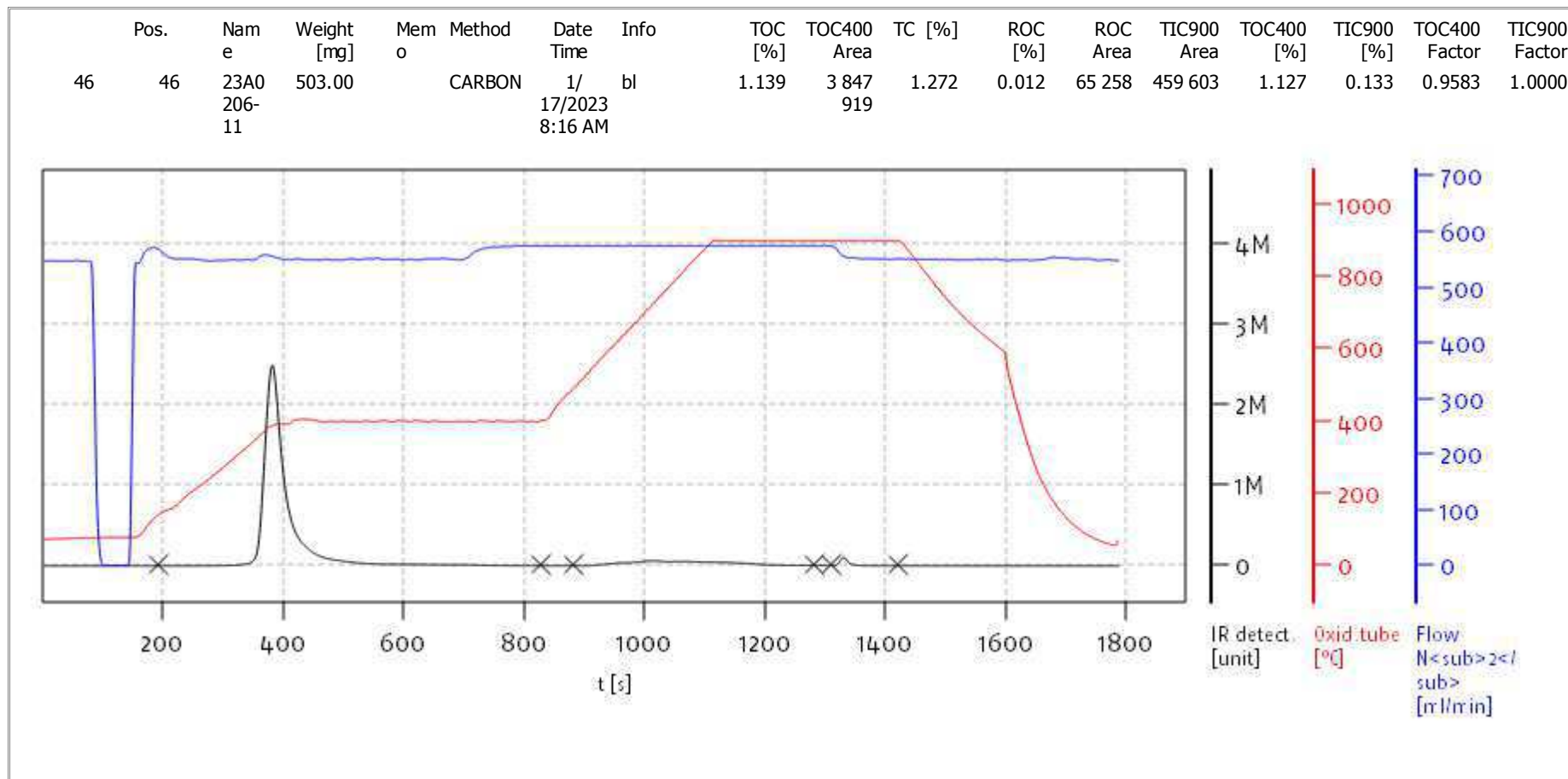
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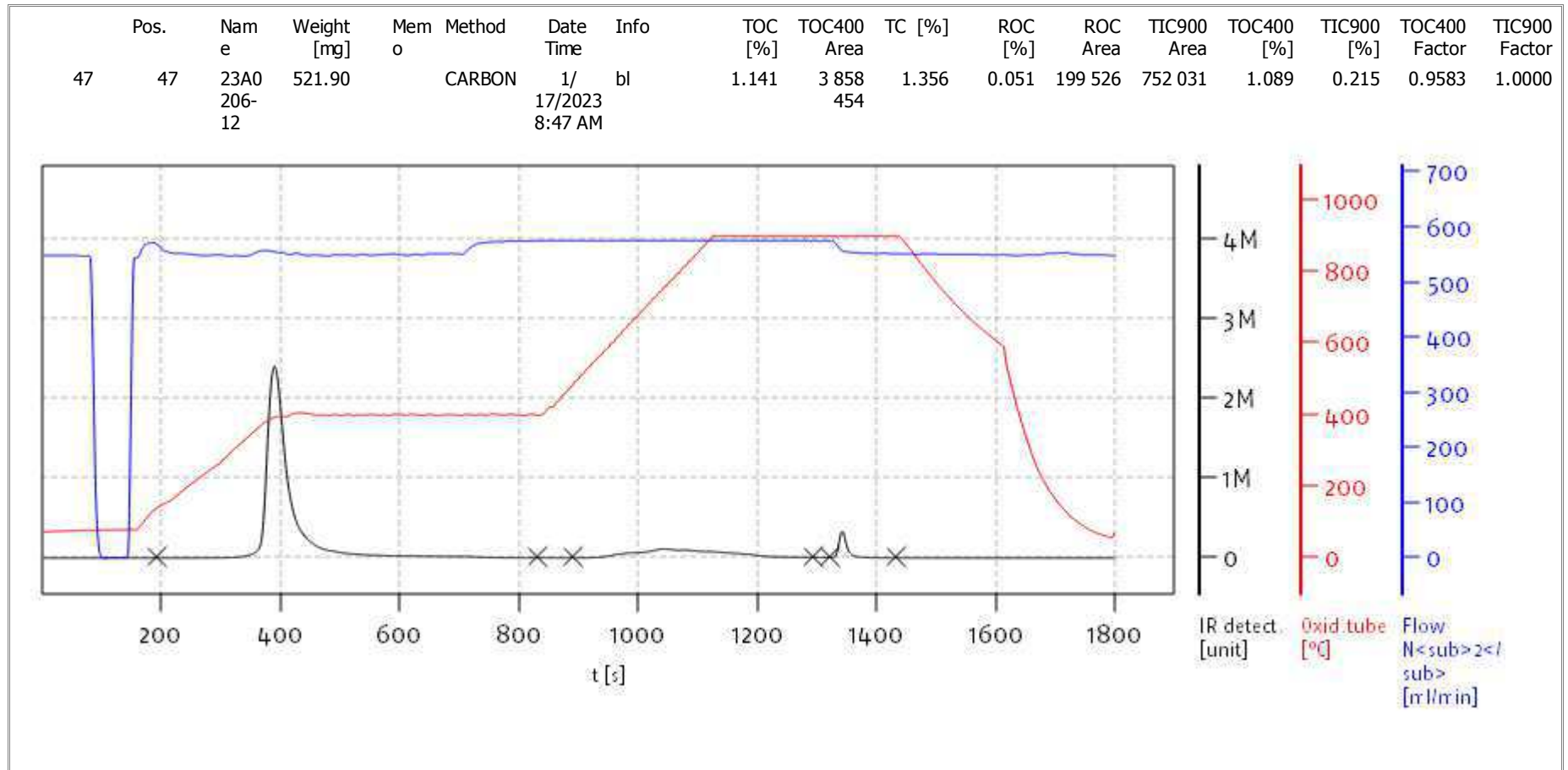
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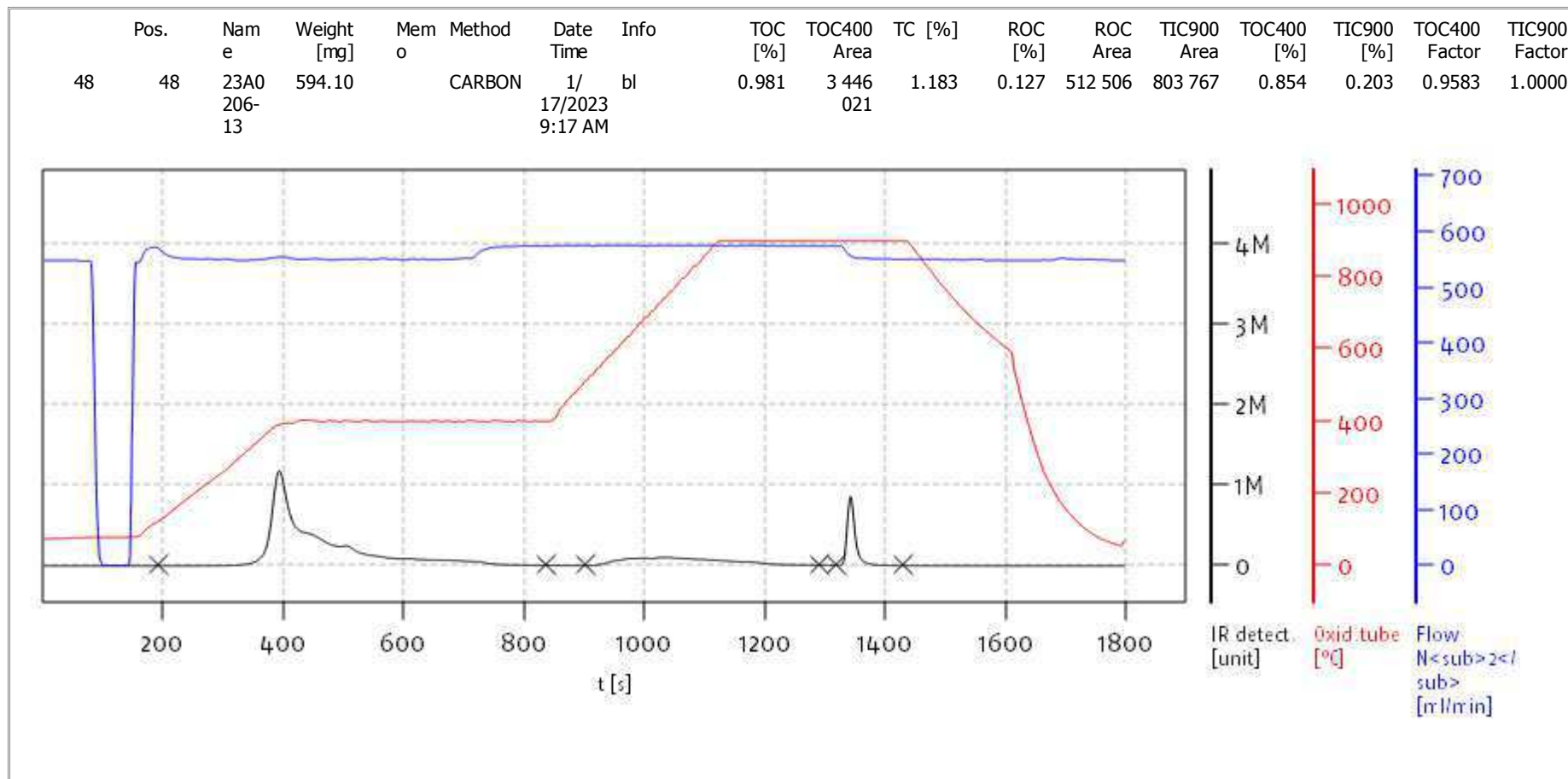
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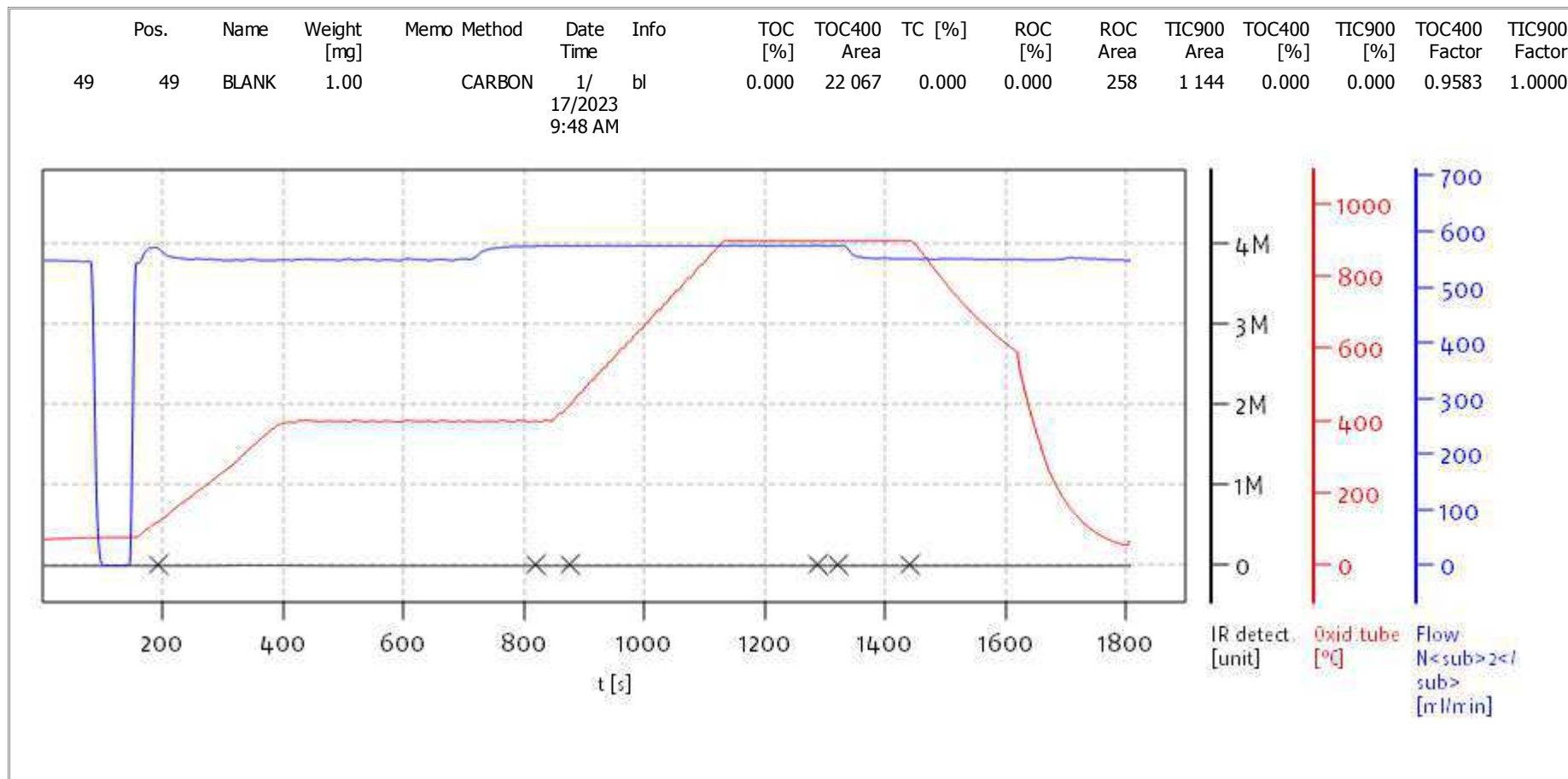
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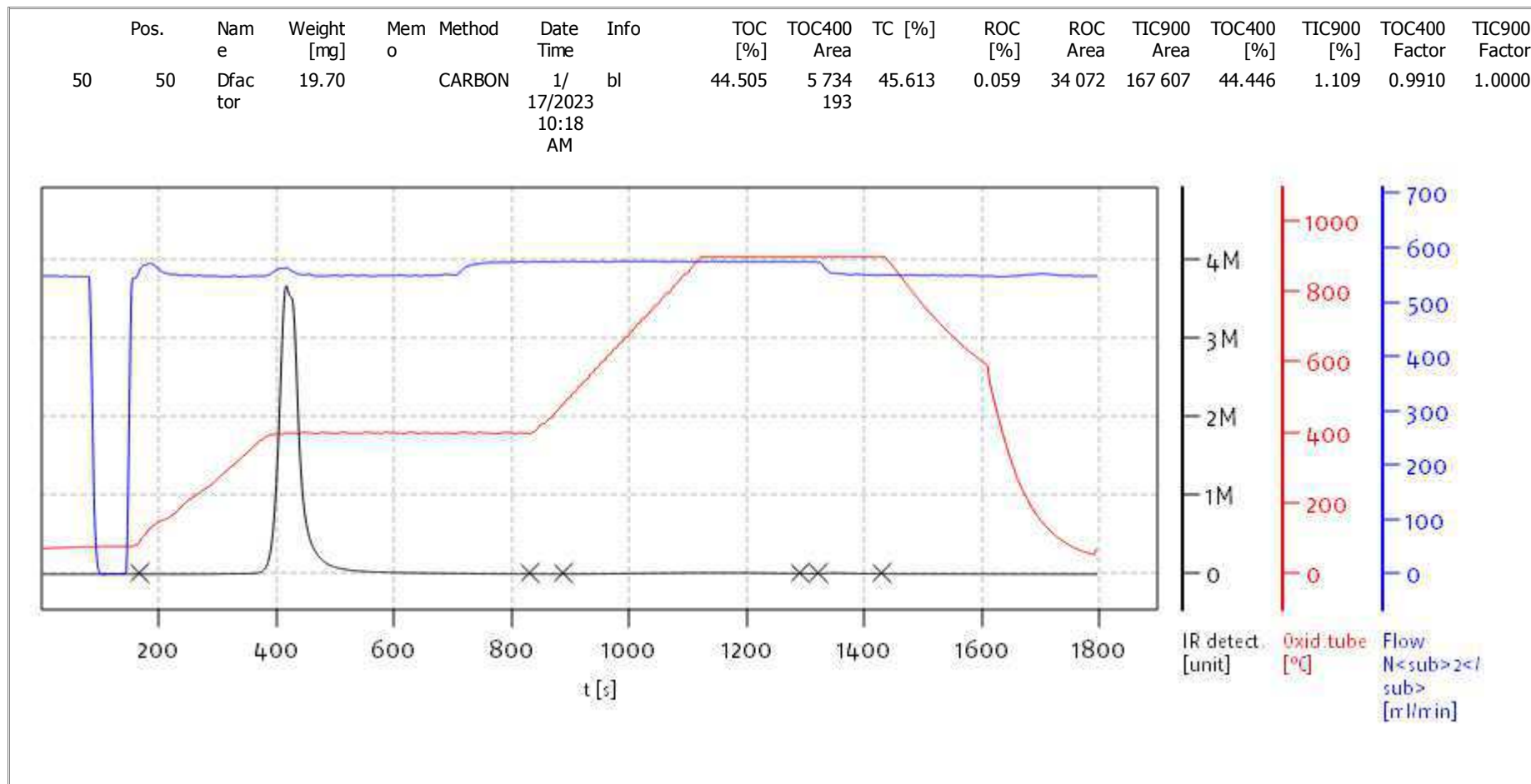
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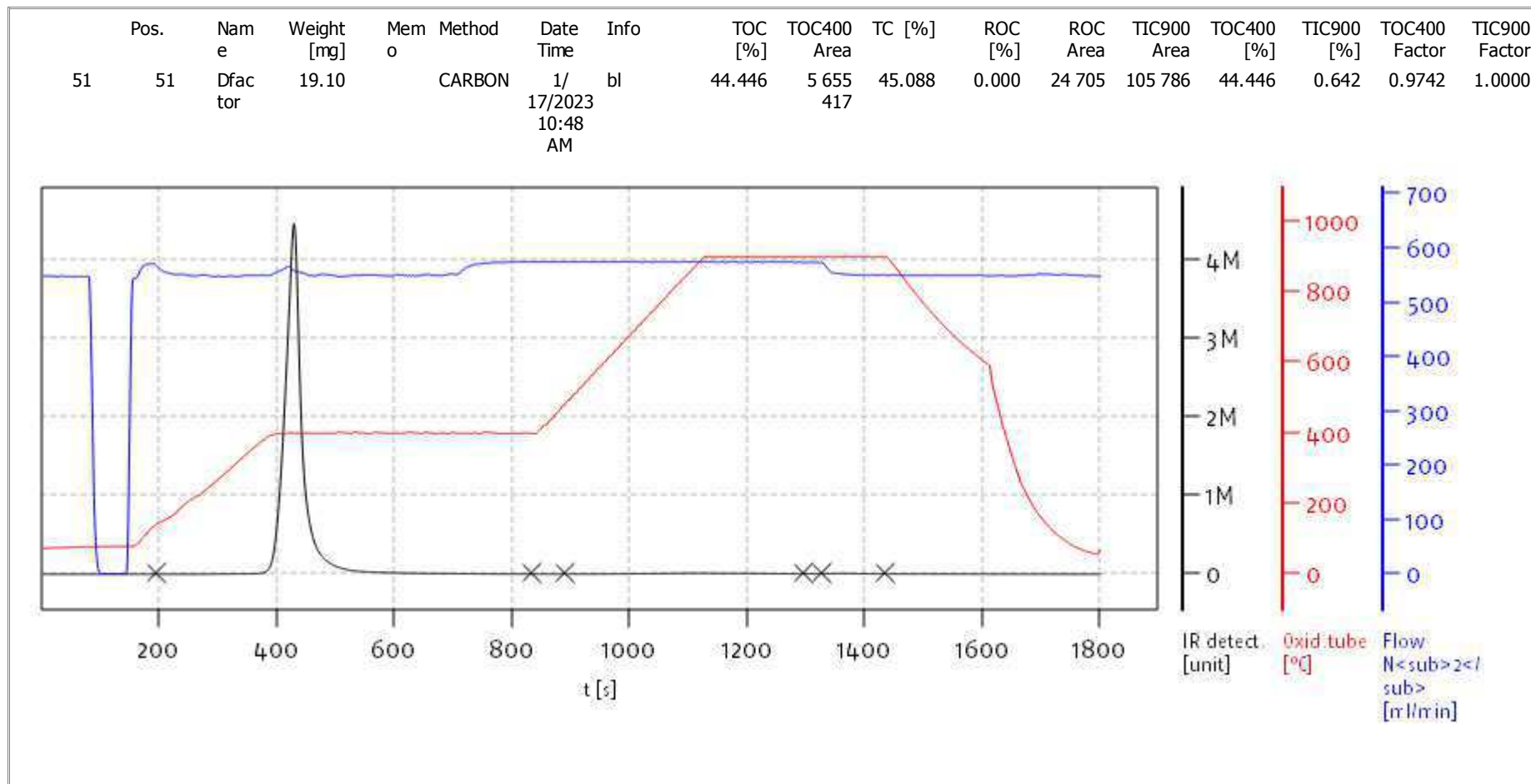
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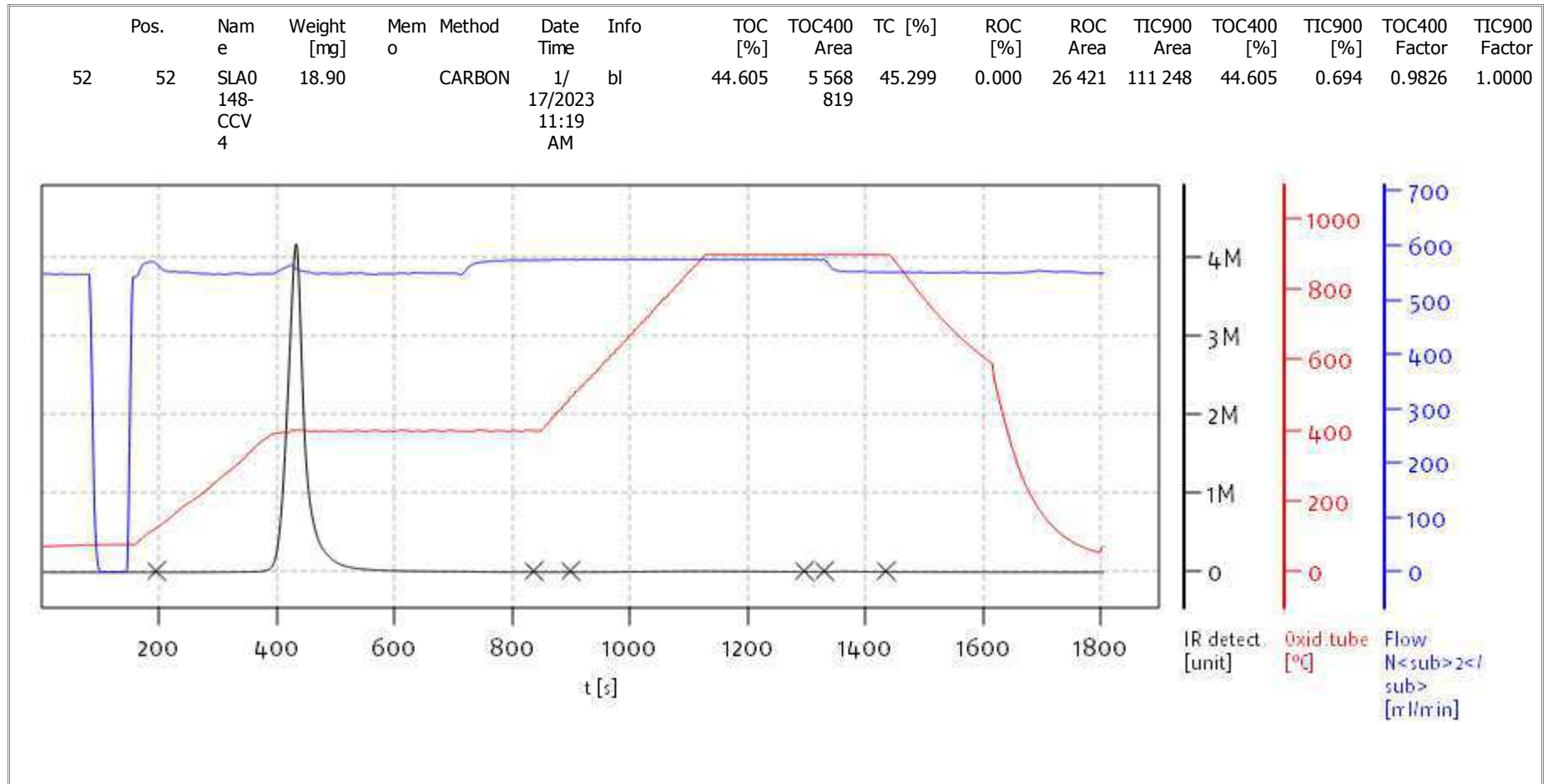
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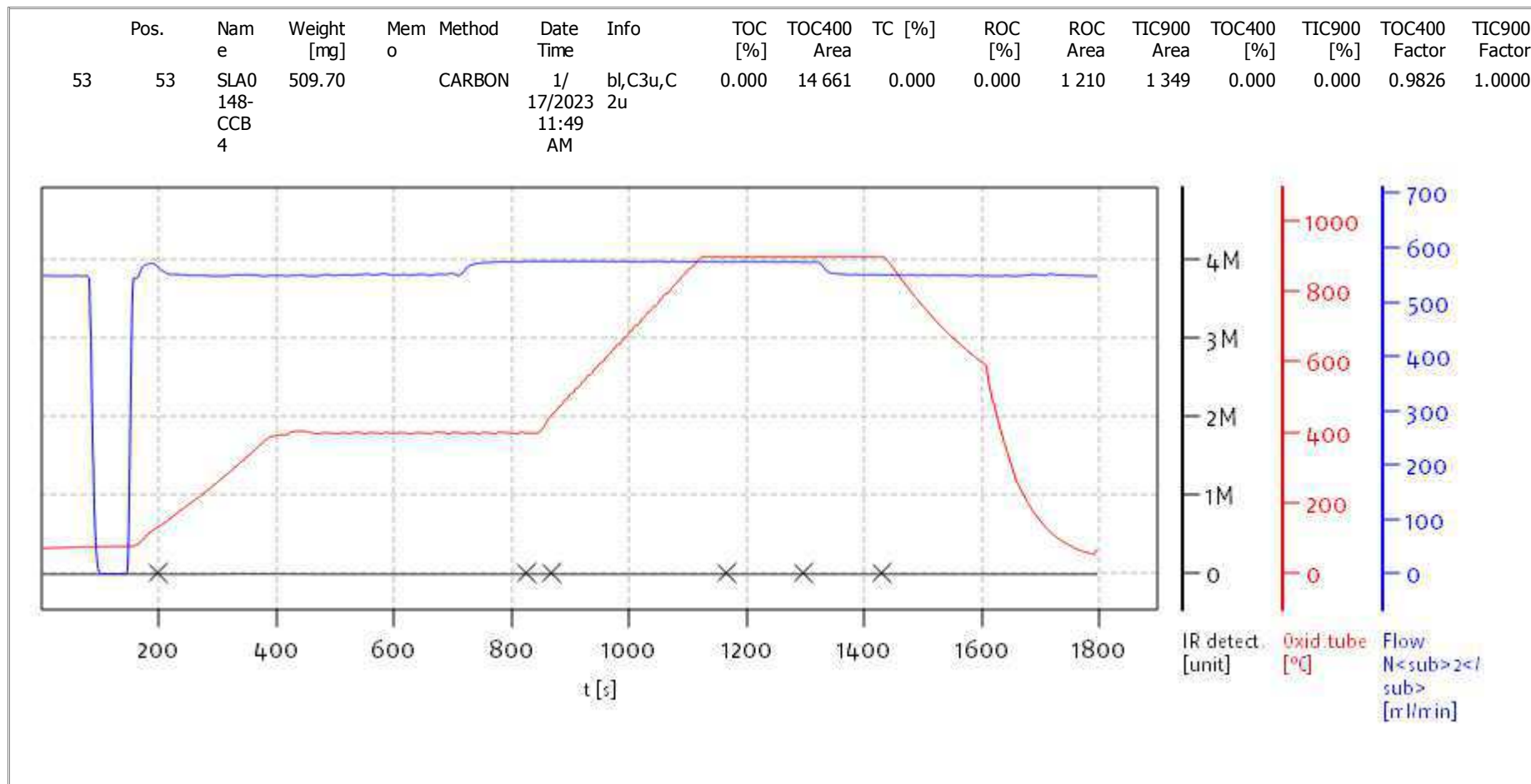
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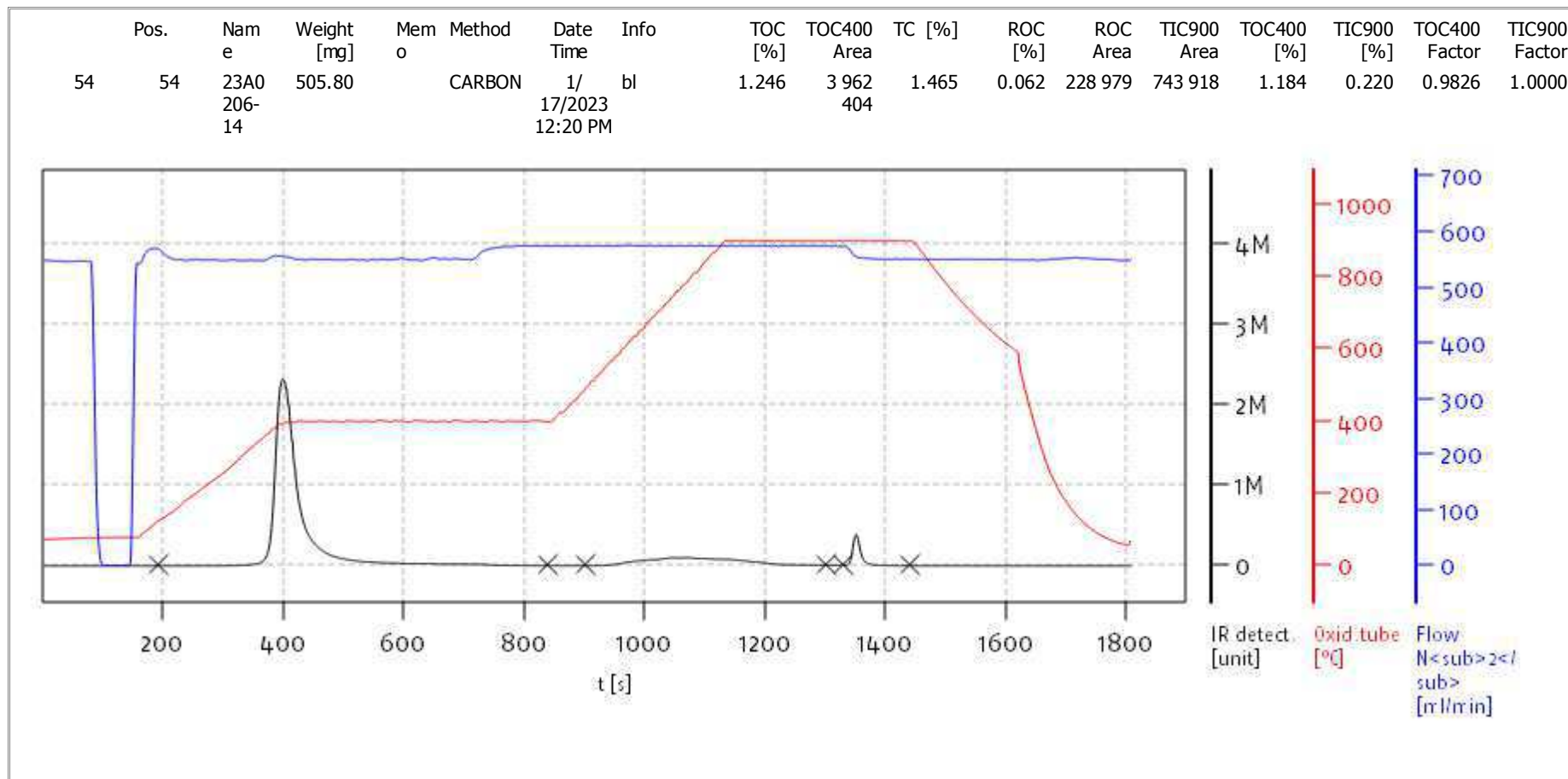
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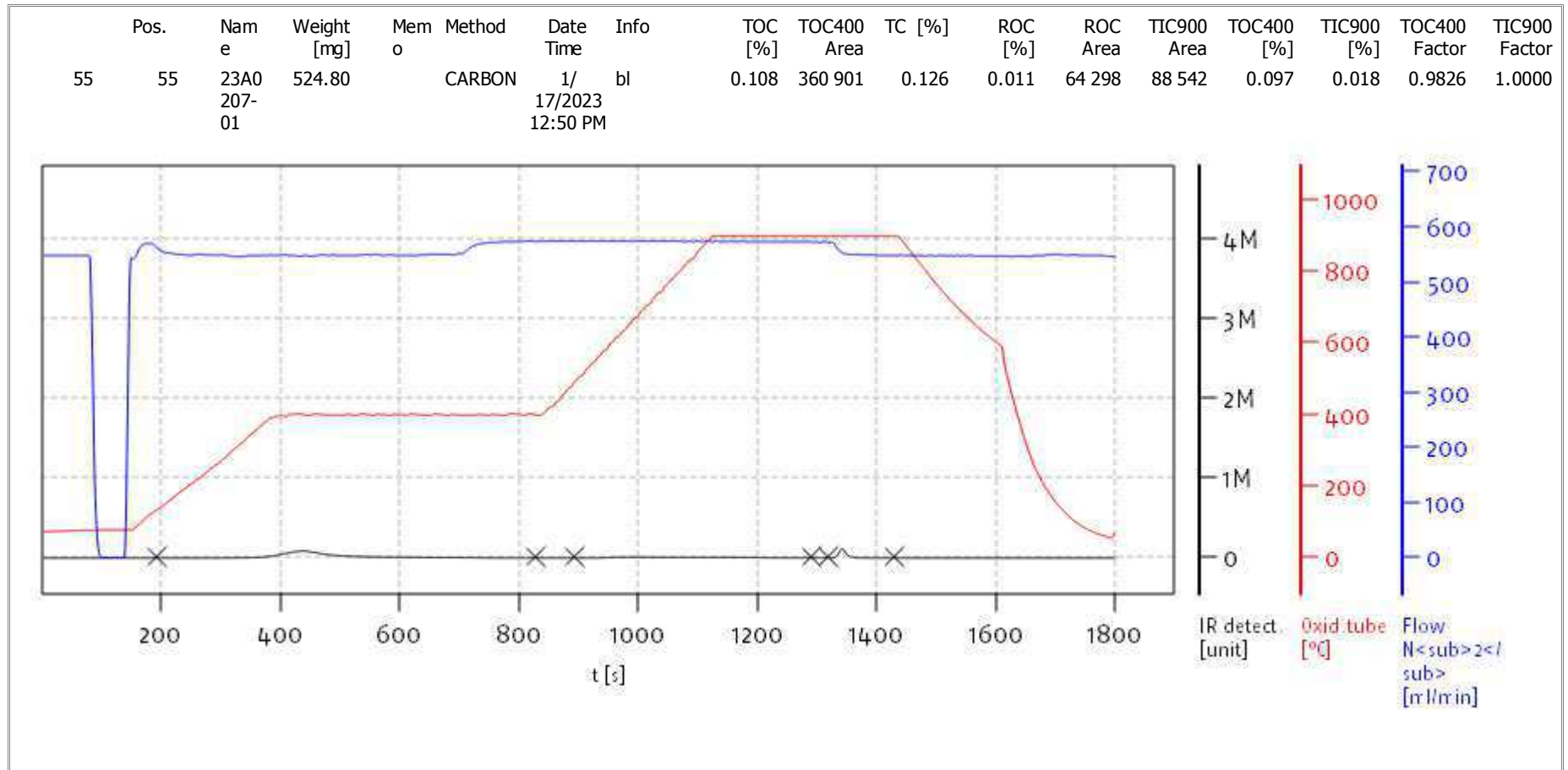


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**Soli TOC Cube, Carbon**  
**Balance: BAL3**  
**Analyst: DOE**



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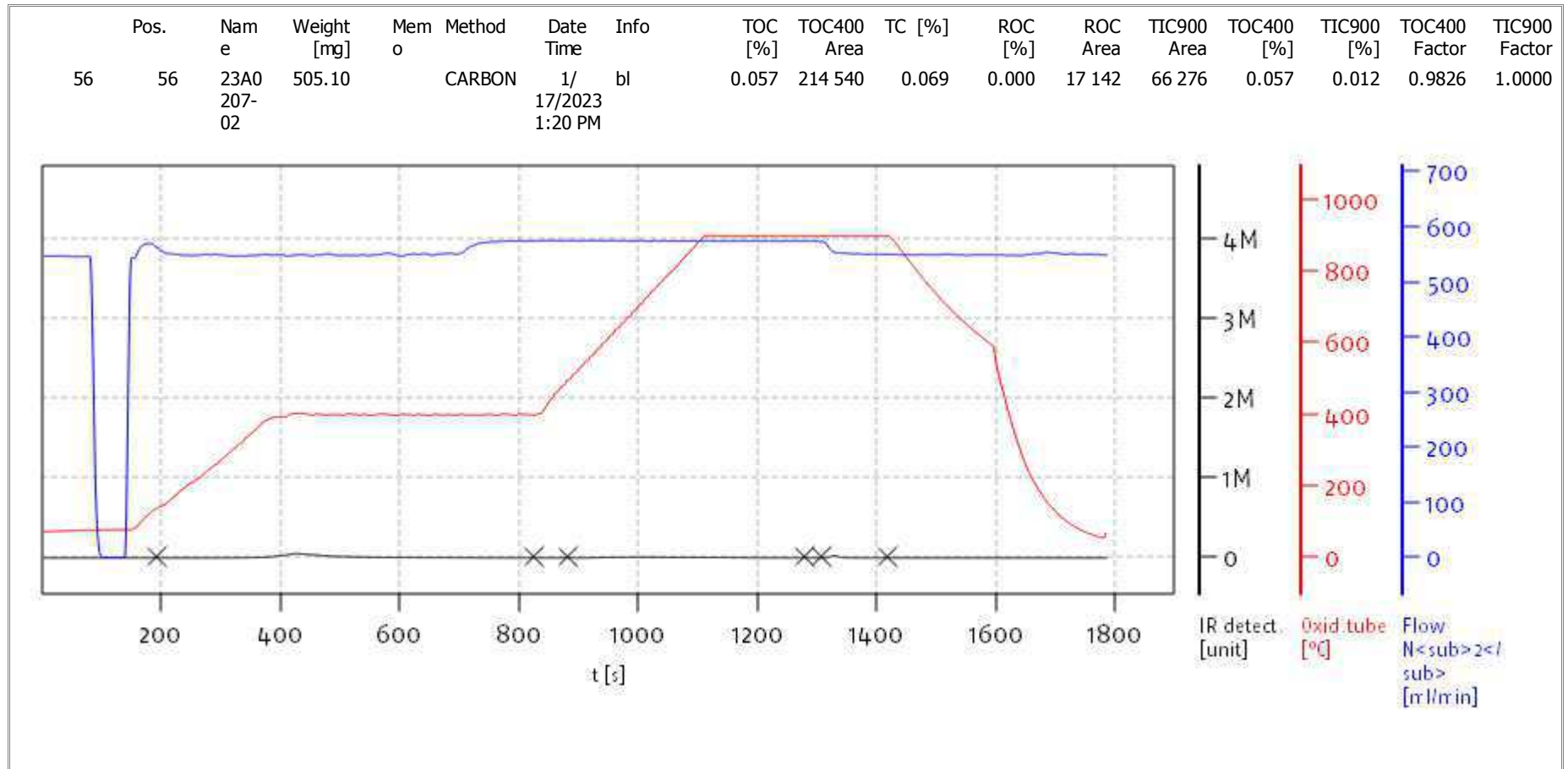
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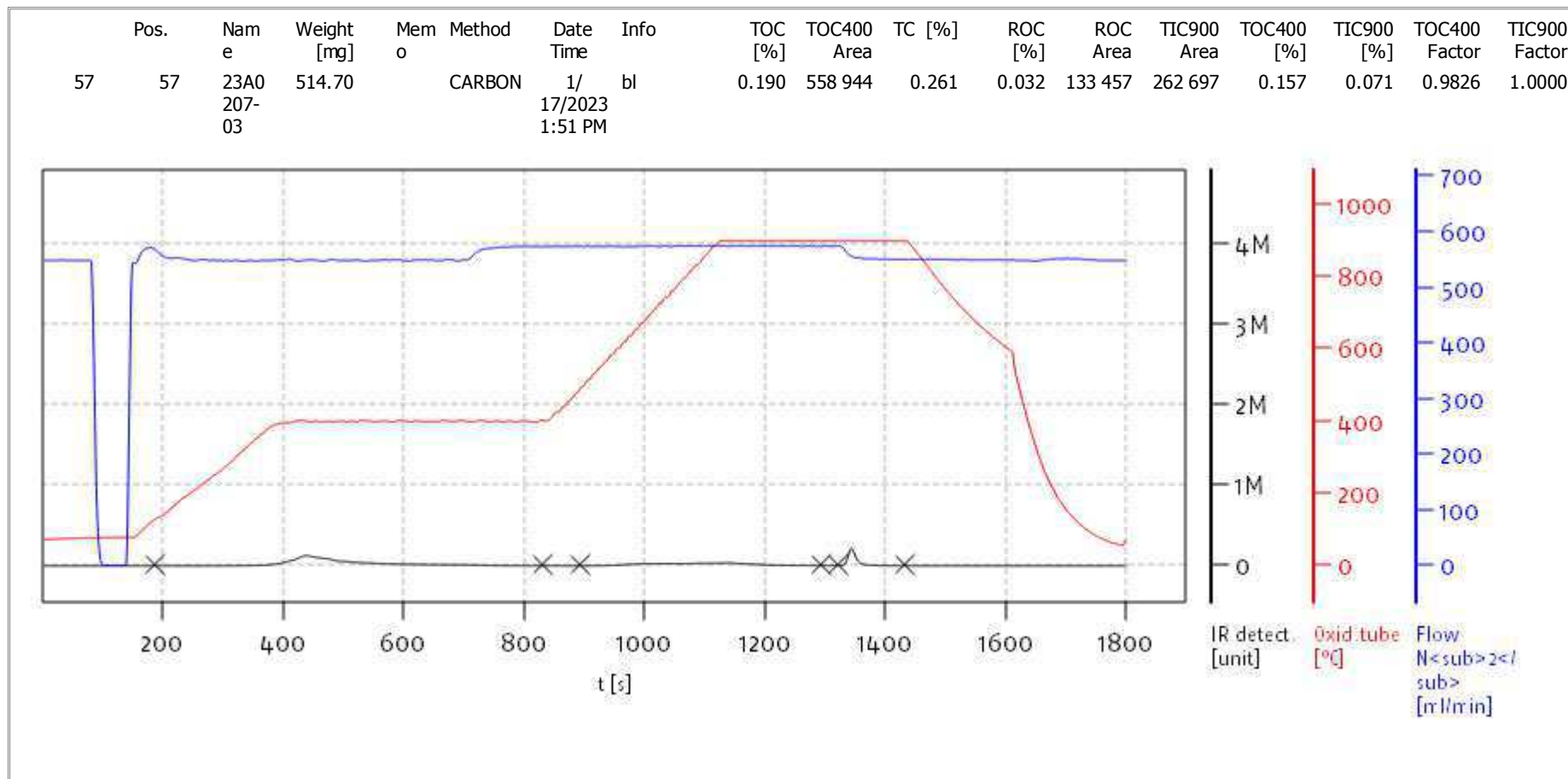
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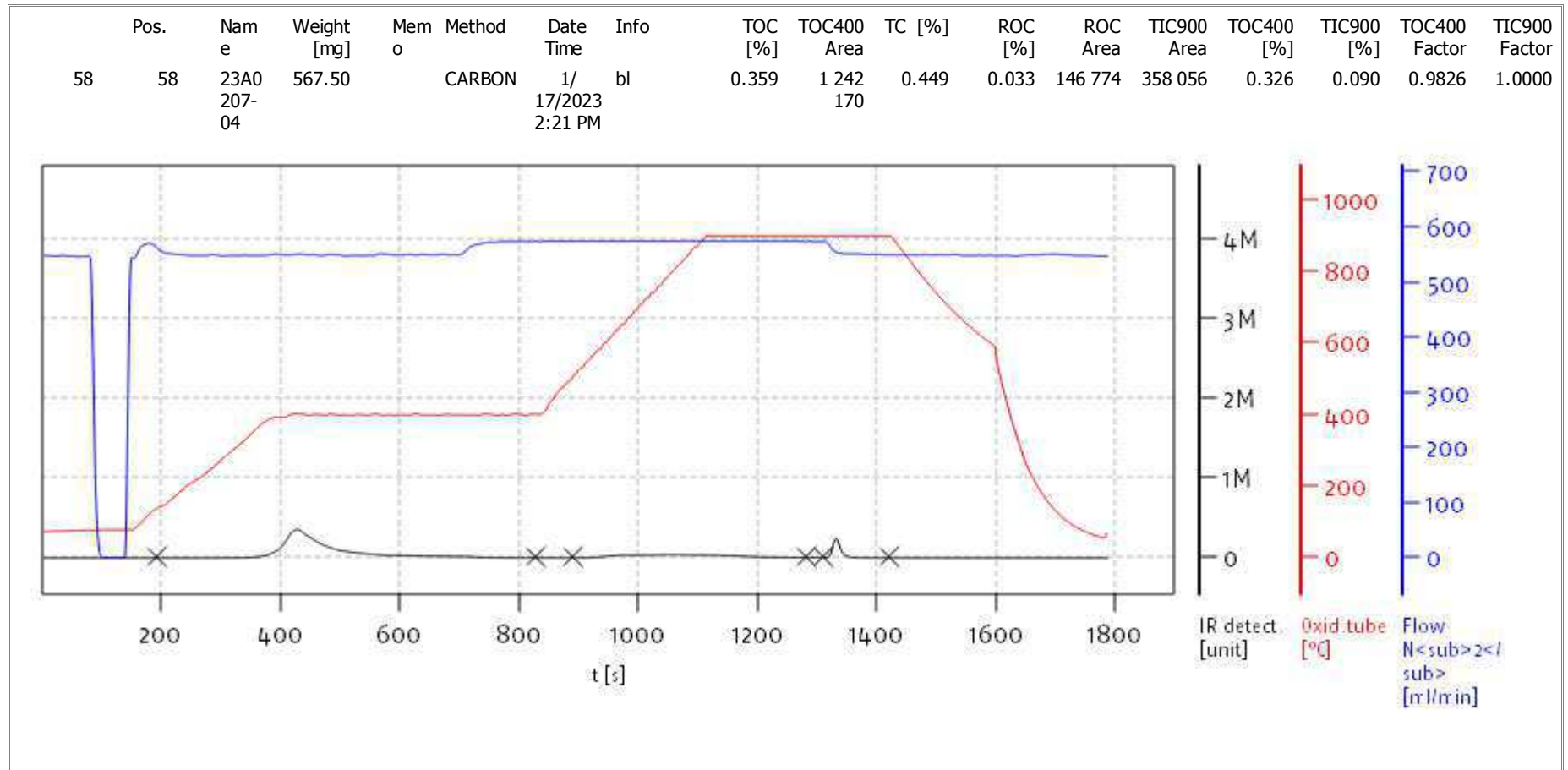
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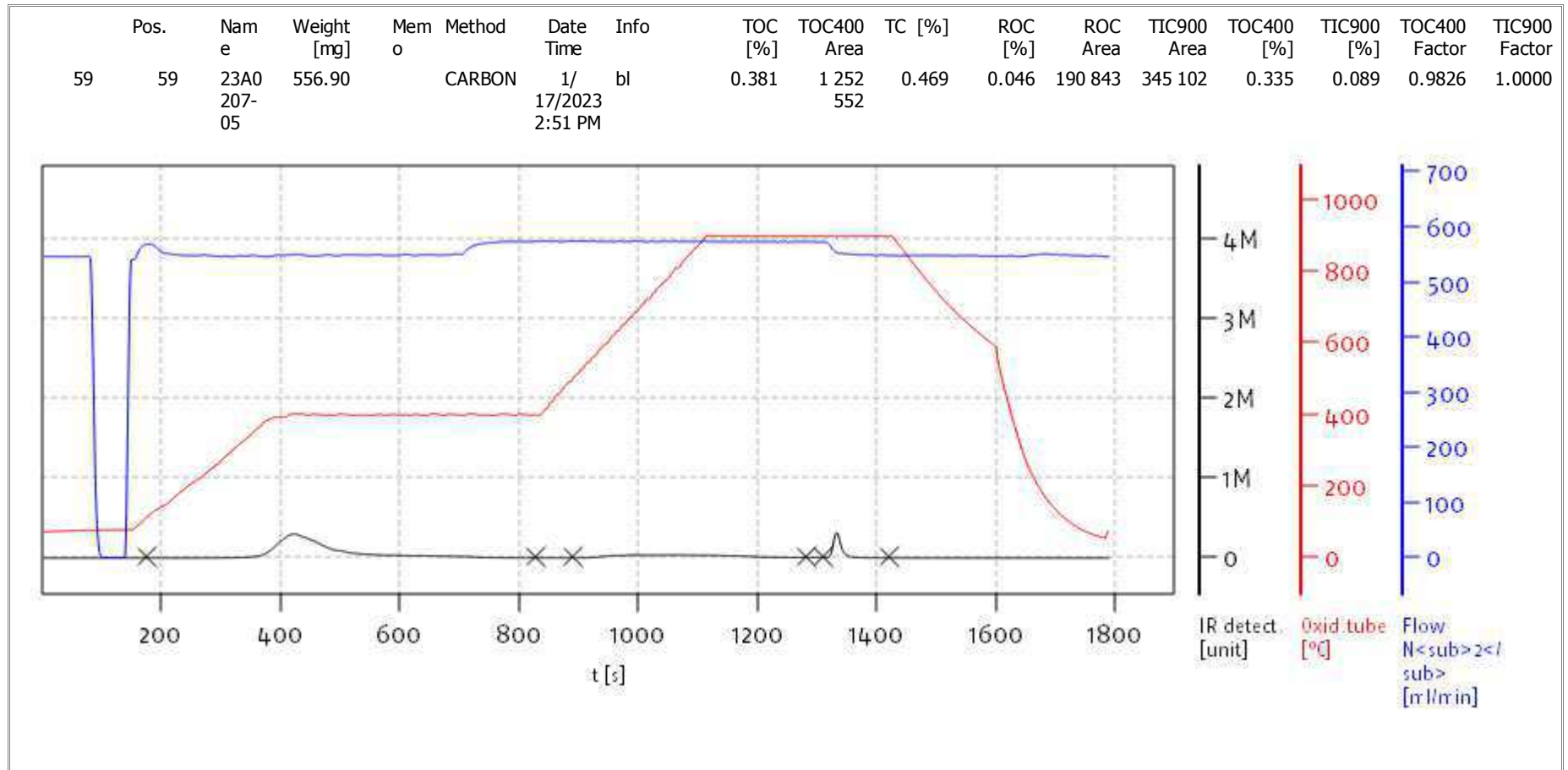
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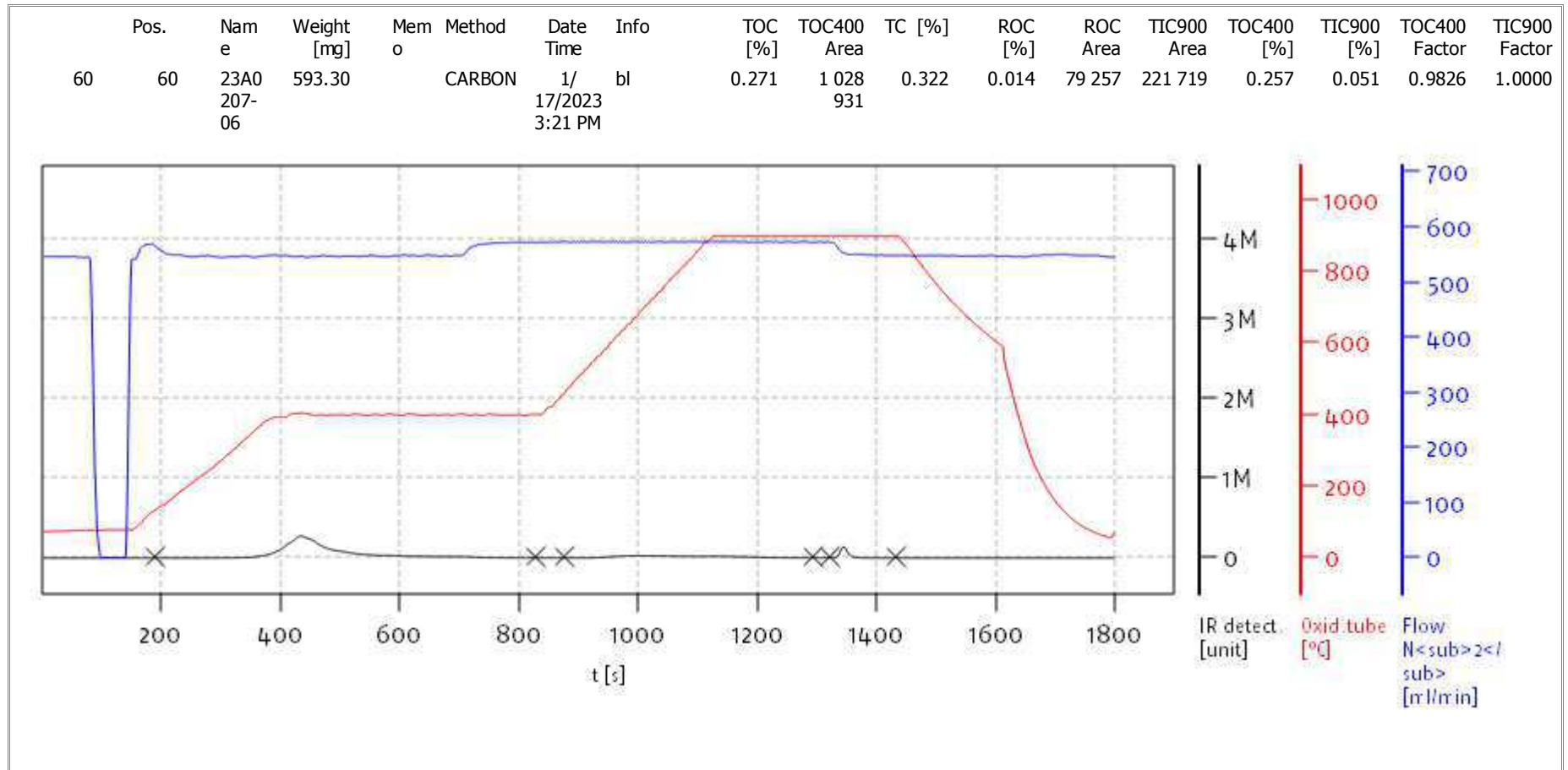
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Date: Wed Jan 18 13:37:19 2023



solITOC V2.0.2 (31015f9) 2018-11-19  
 Serial No: 0300.181017  
 Mode CCC

Soli TOC Cube, Carbon  
 Balance: BAL3  
 Analyst: DOE



Name:

Access: solITOC superuser

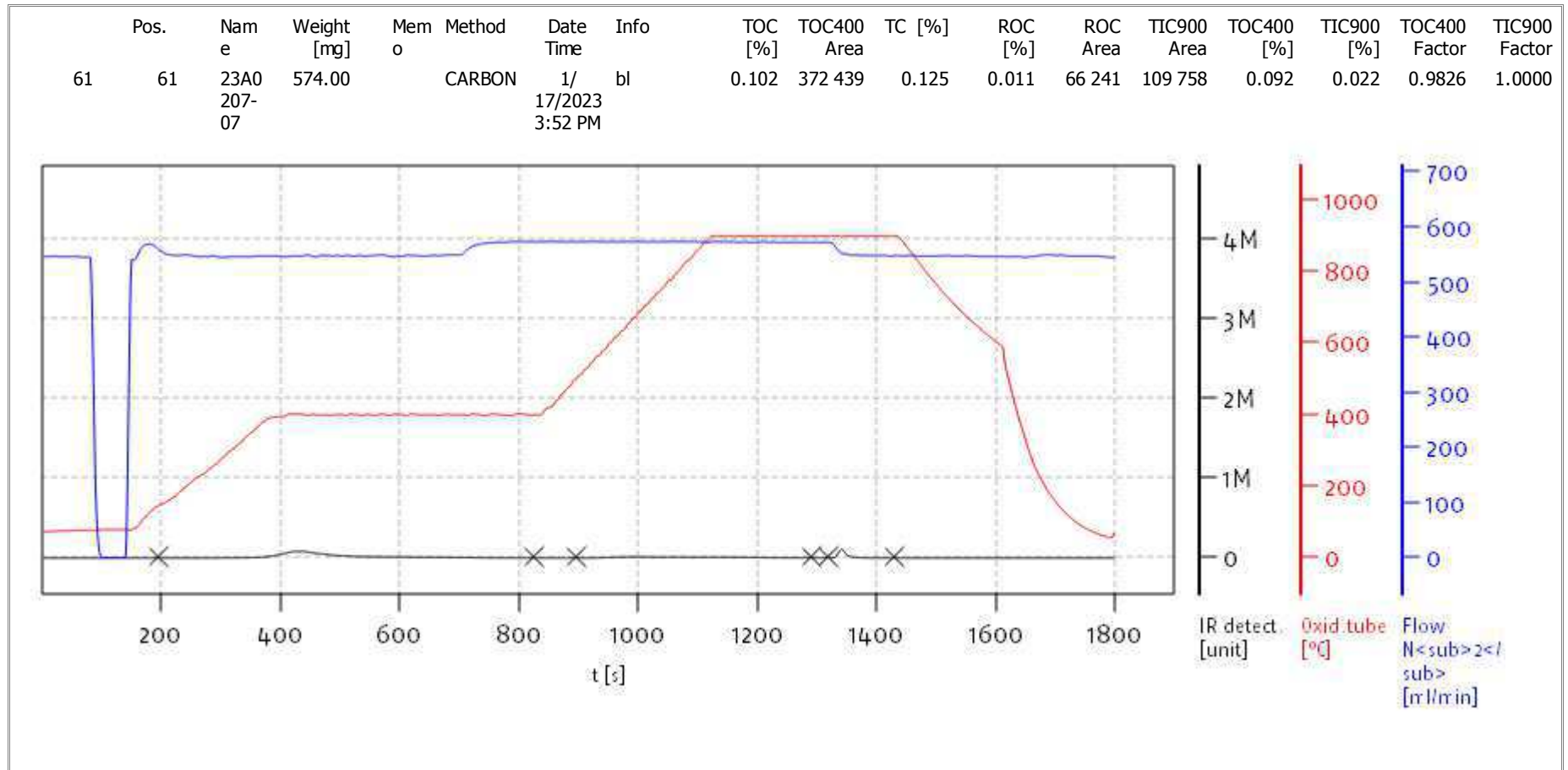
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solITOC V2.0.2 (31015f9) 2018-11-19  
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 Mode CCC



**Soli TOC Cube, Carbon**  
**Balance: BAL3**  
**Analyst: DOE**



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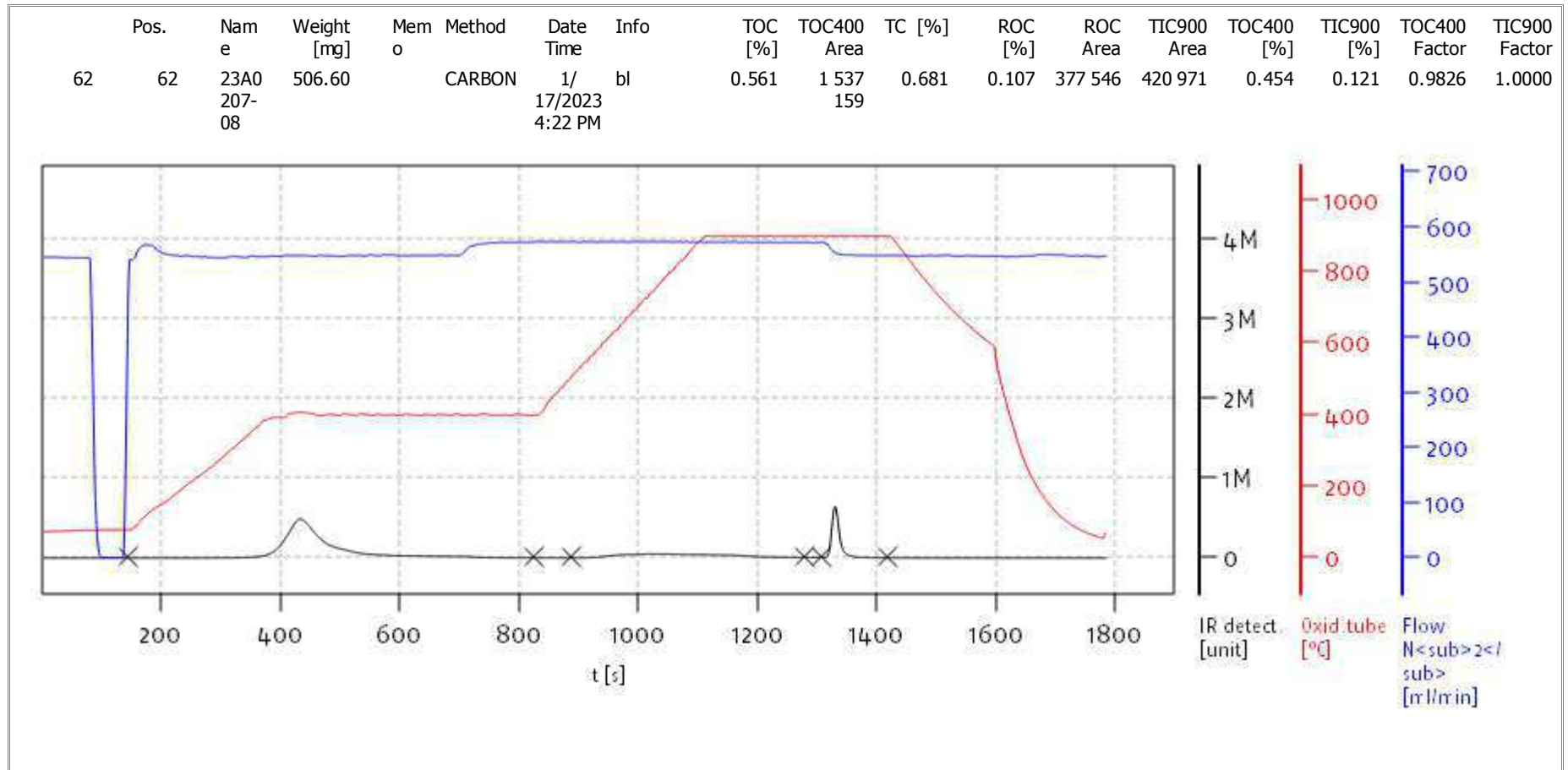
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Date: Wed Jan 18 13:37:19 2023



solITOC V2.0.2 (31015f9) 2018-11-19  
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Soli TOC Cube, Carbon  
 Balance: BAL3  
 Analyst: DOE



Name:

Access: soliTOC superuser

Date: Wed Jan 18 13:37:19 2023

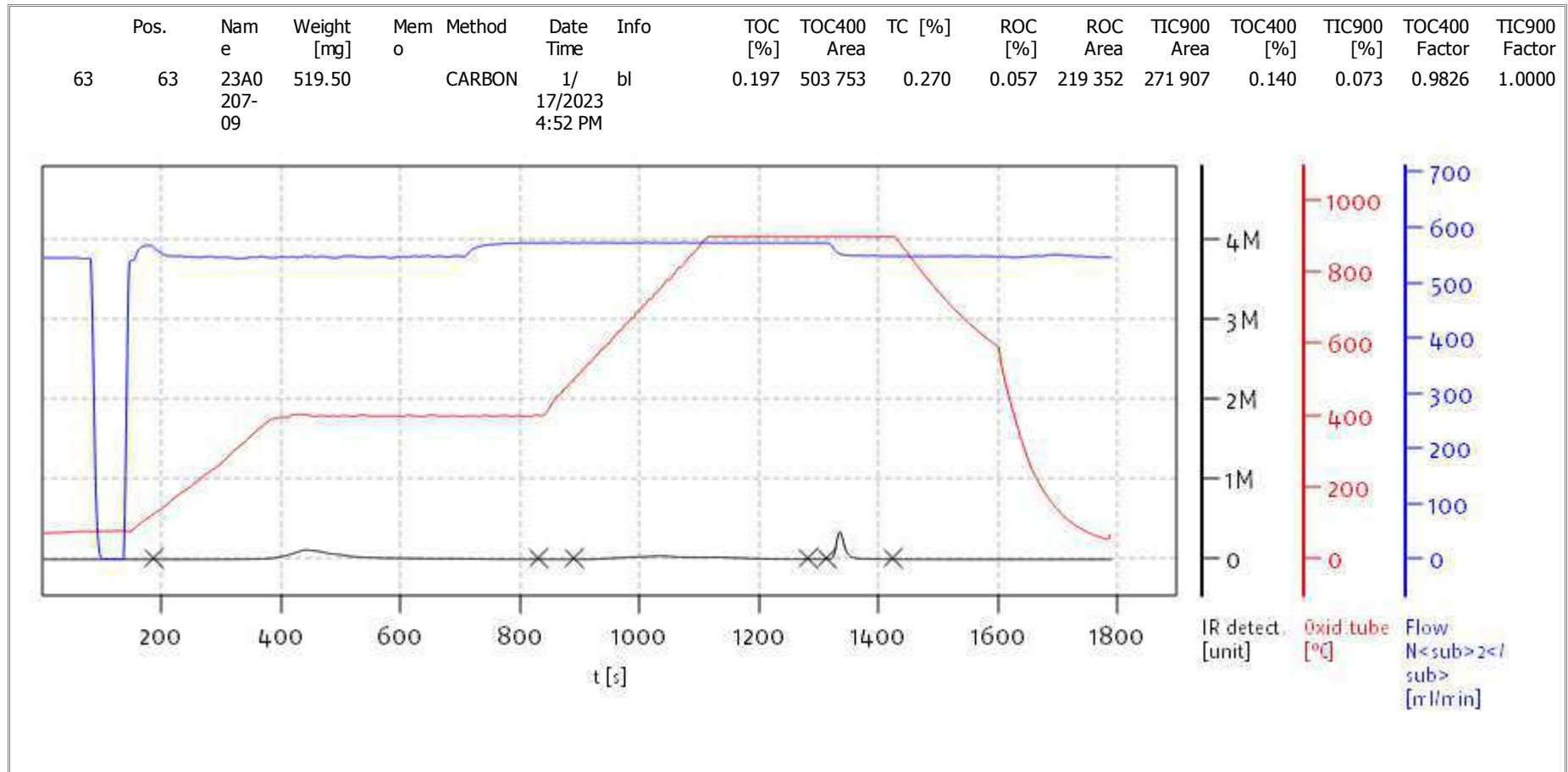


soliTOC V2.0.2 (31015f9) 2018-11-19  
 Serial No: 0300.181017  
 Mode CCC





**Soli TOC Cube, Carbon**  
**Balance: BAL3**  
**Analyst: DOE**



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Access: solITOC superuser

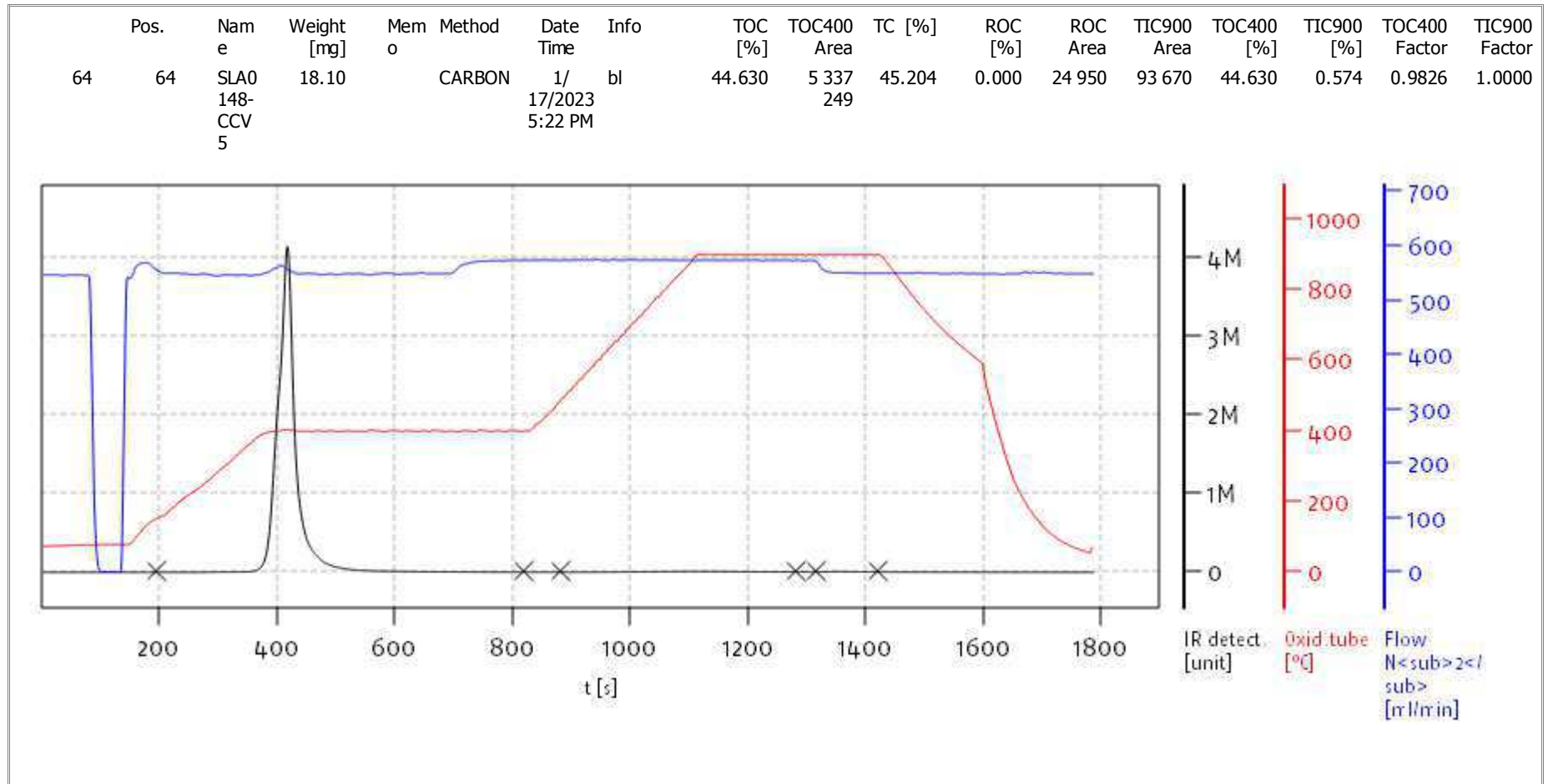
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Soli TOC Cube, Carbon  
 Balance: BAL3  
 Analyst: DOE



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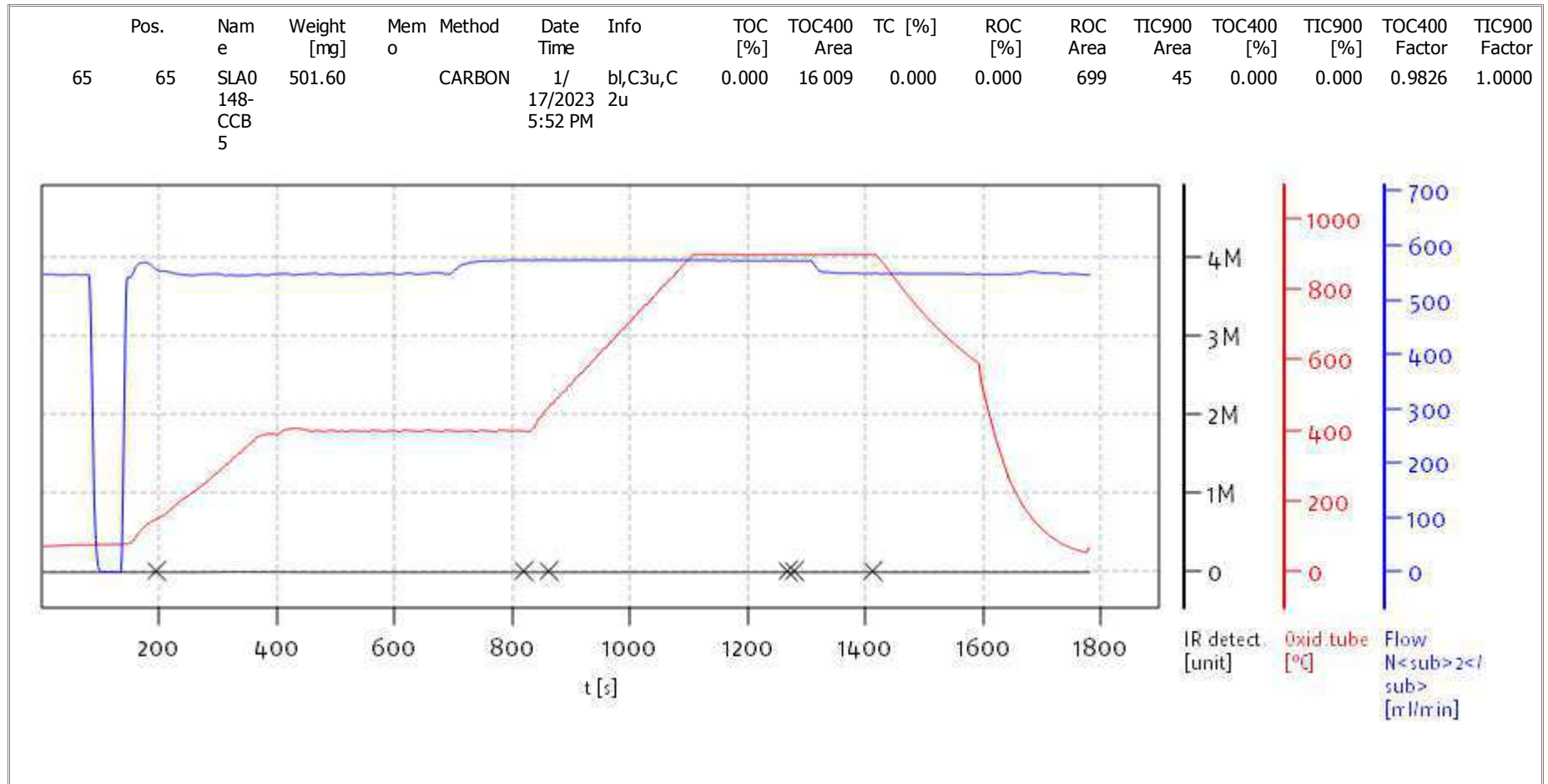
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 Analyst: DOE



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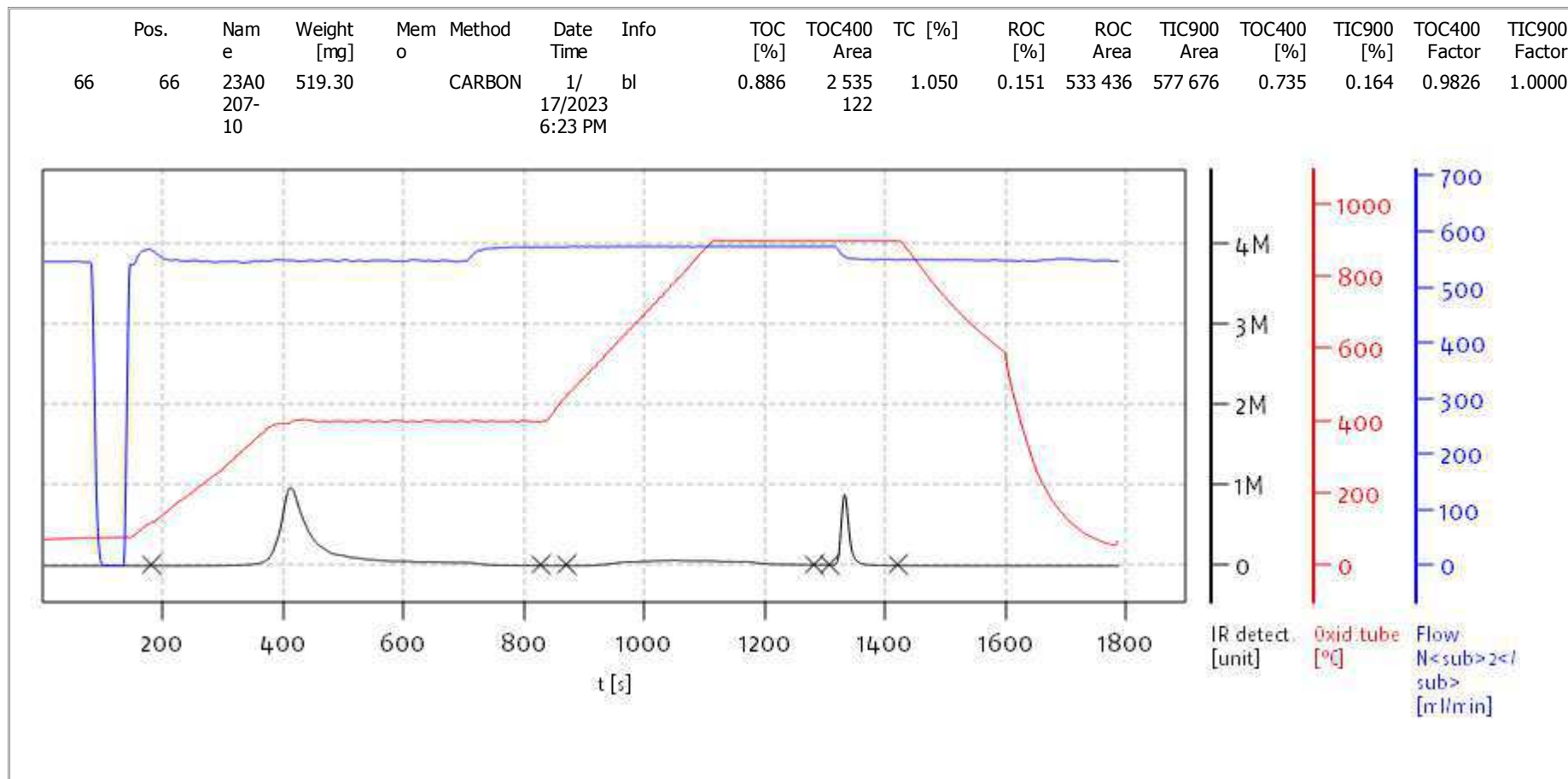
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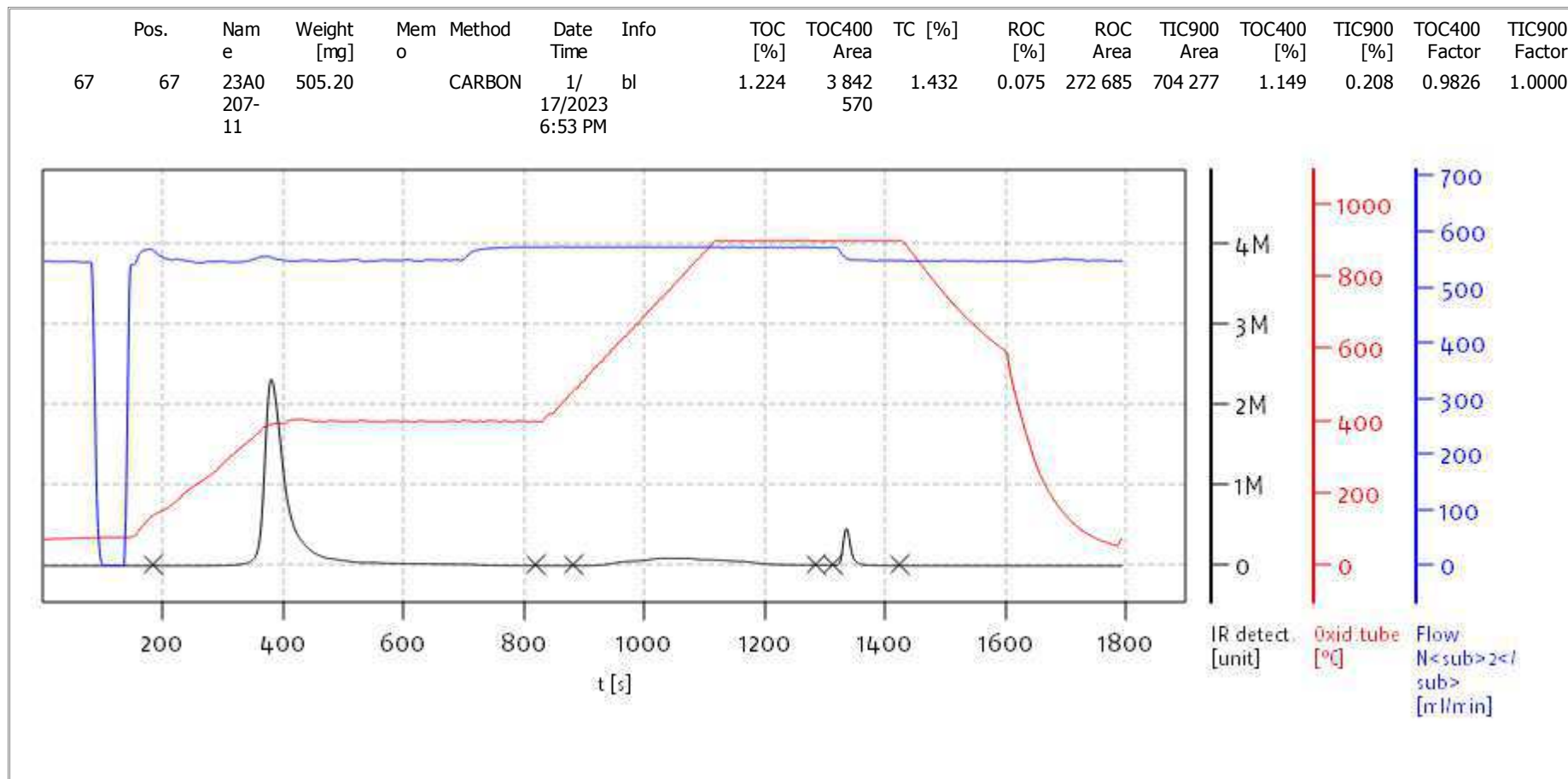
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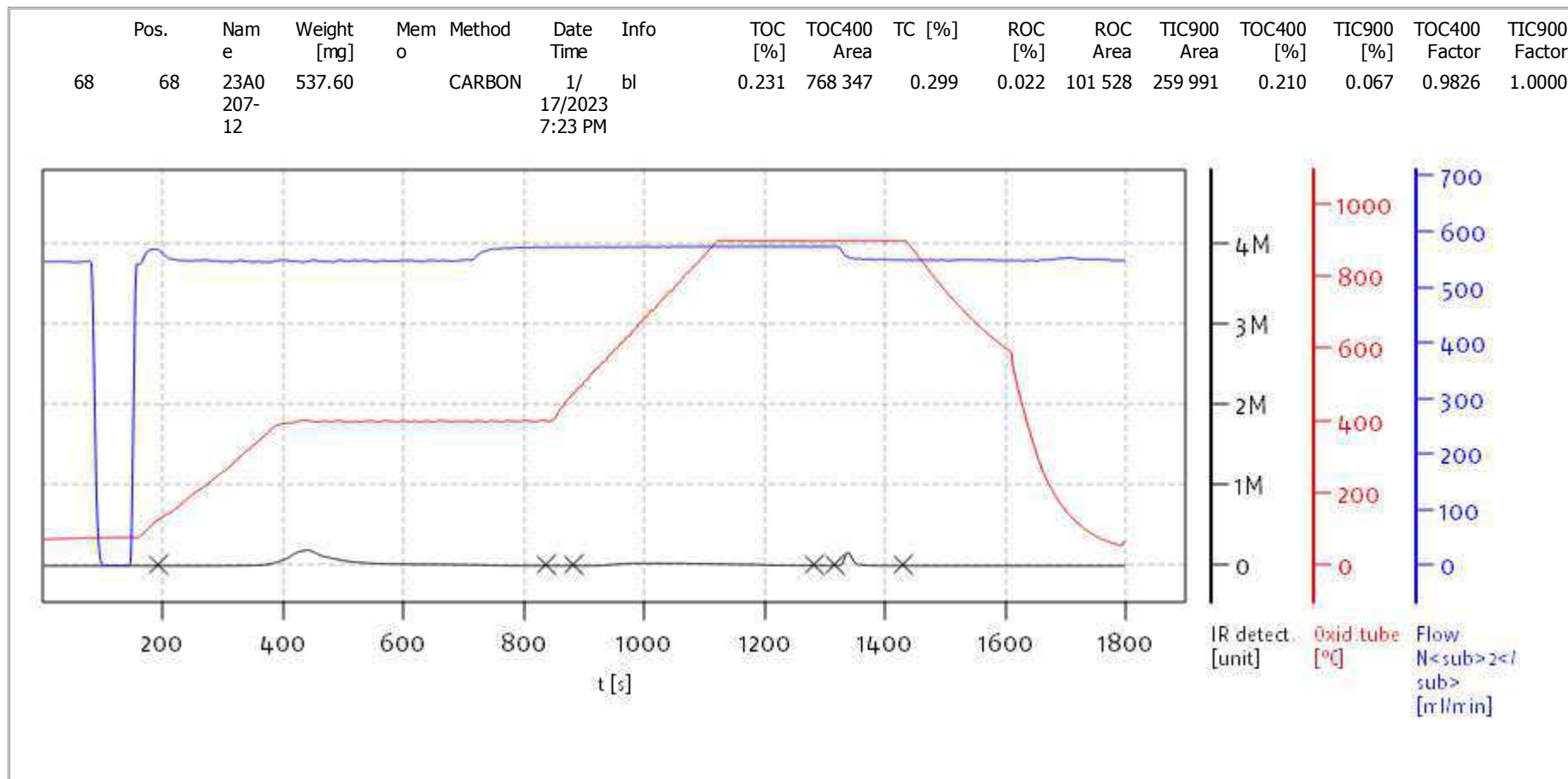
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 Analyst: DOE



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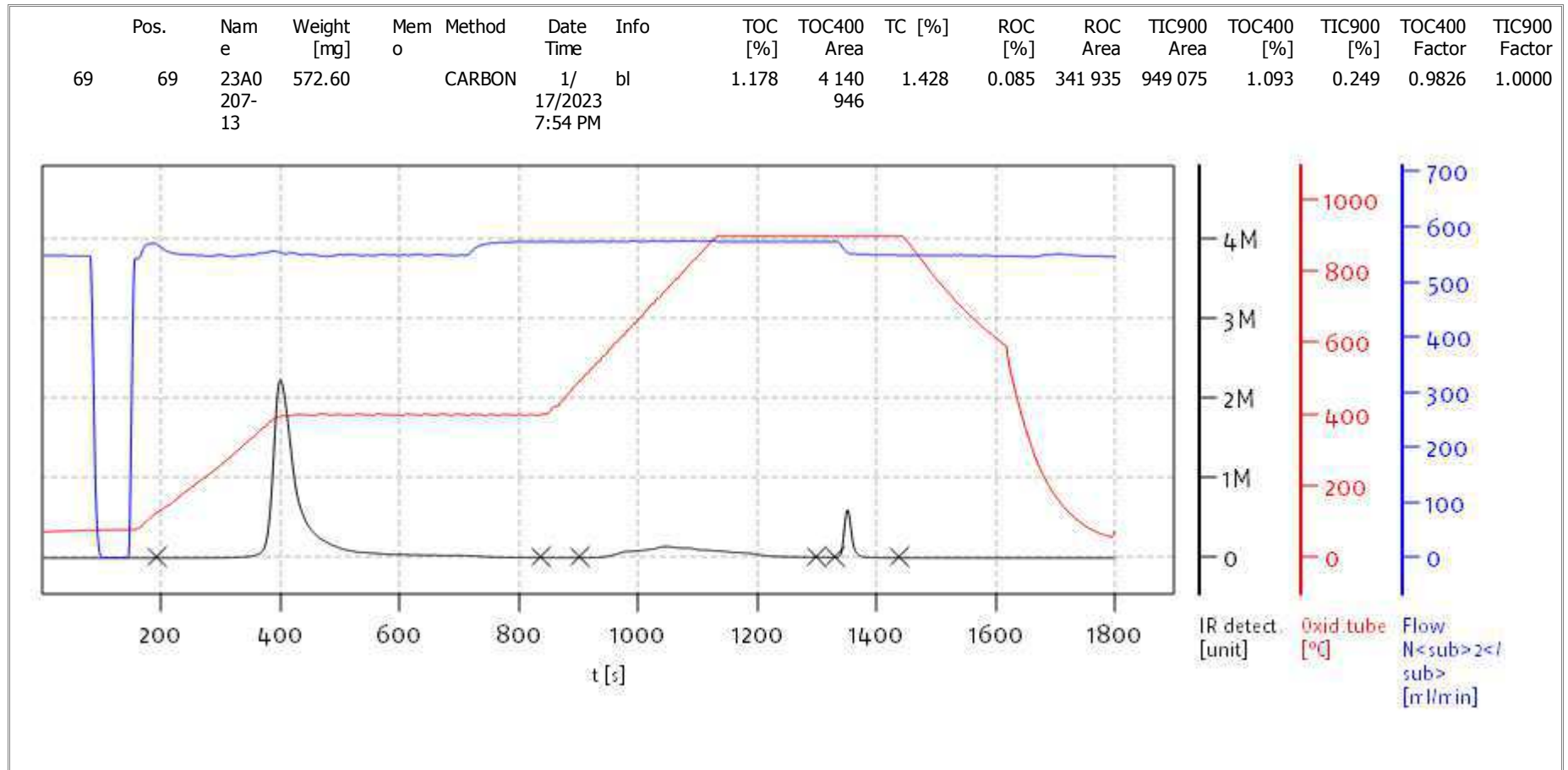
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 Analyst: DOE



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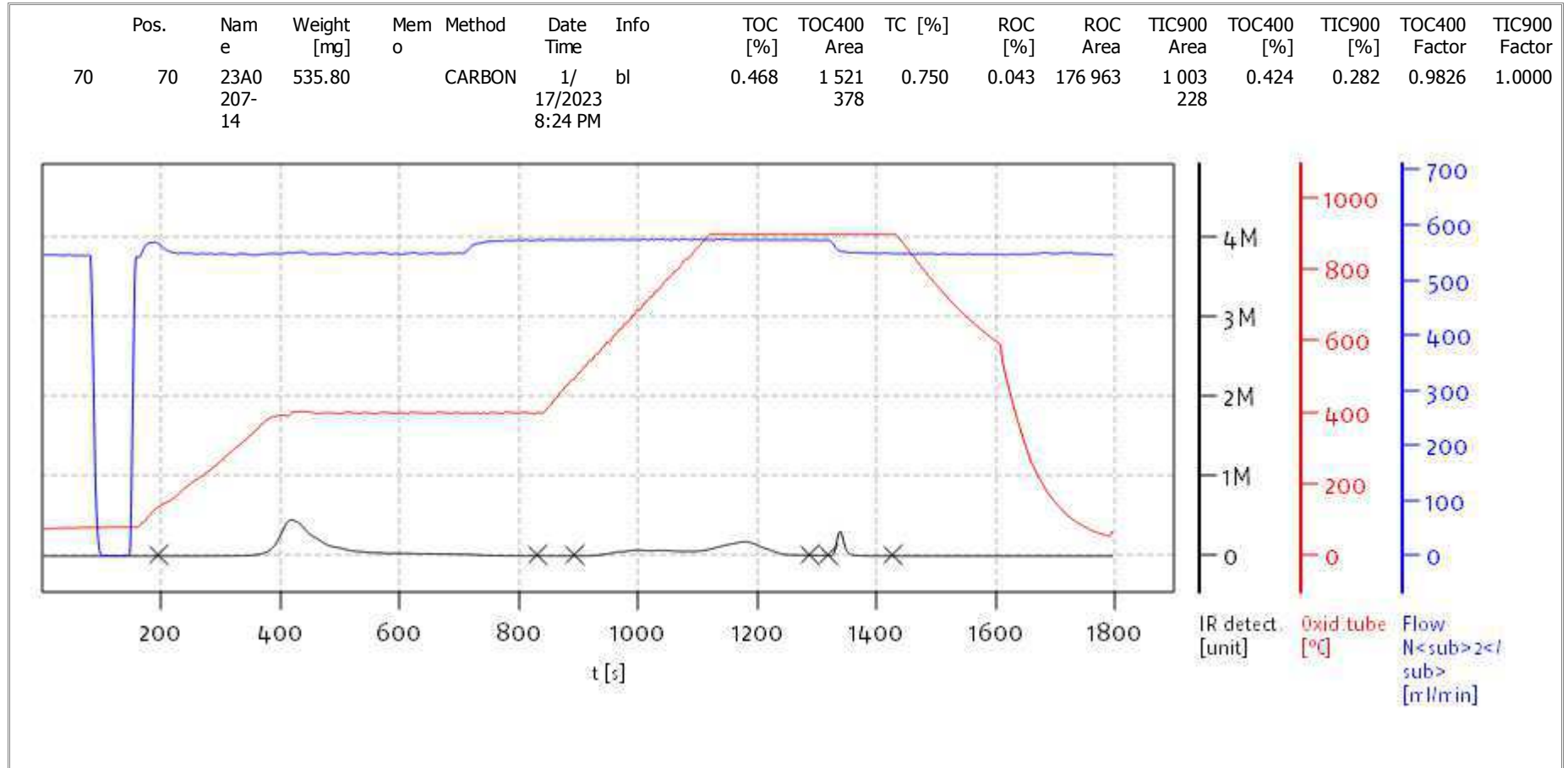
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Soli TOC Cube, Carbon  
 Balance: BAL3  
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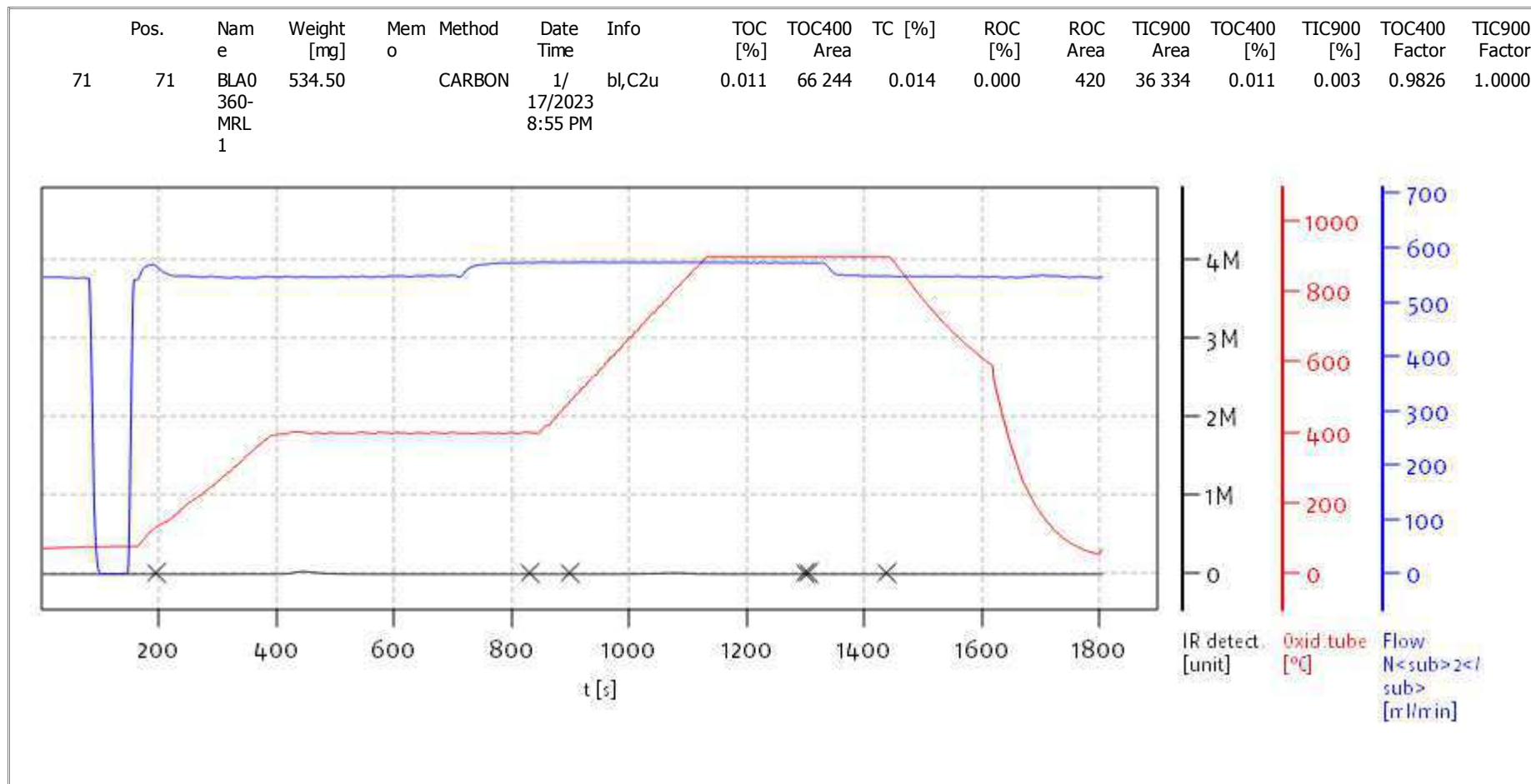
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solITOC V2.0.2 (31015f9) 2018-11-19  
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Soli TOC Cube, Carbon  
 Balance: BAL3  
 Analyst: DOE



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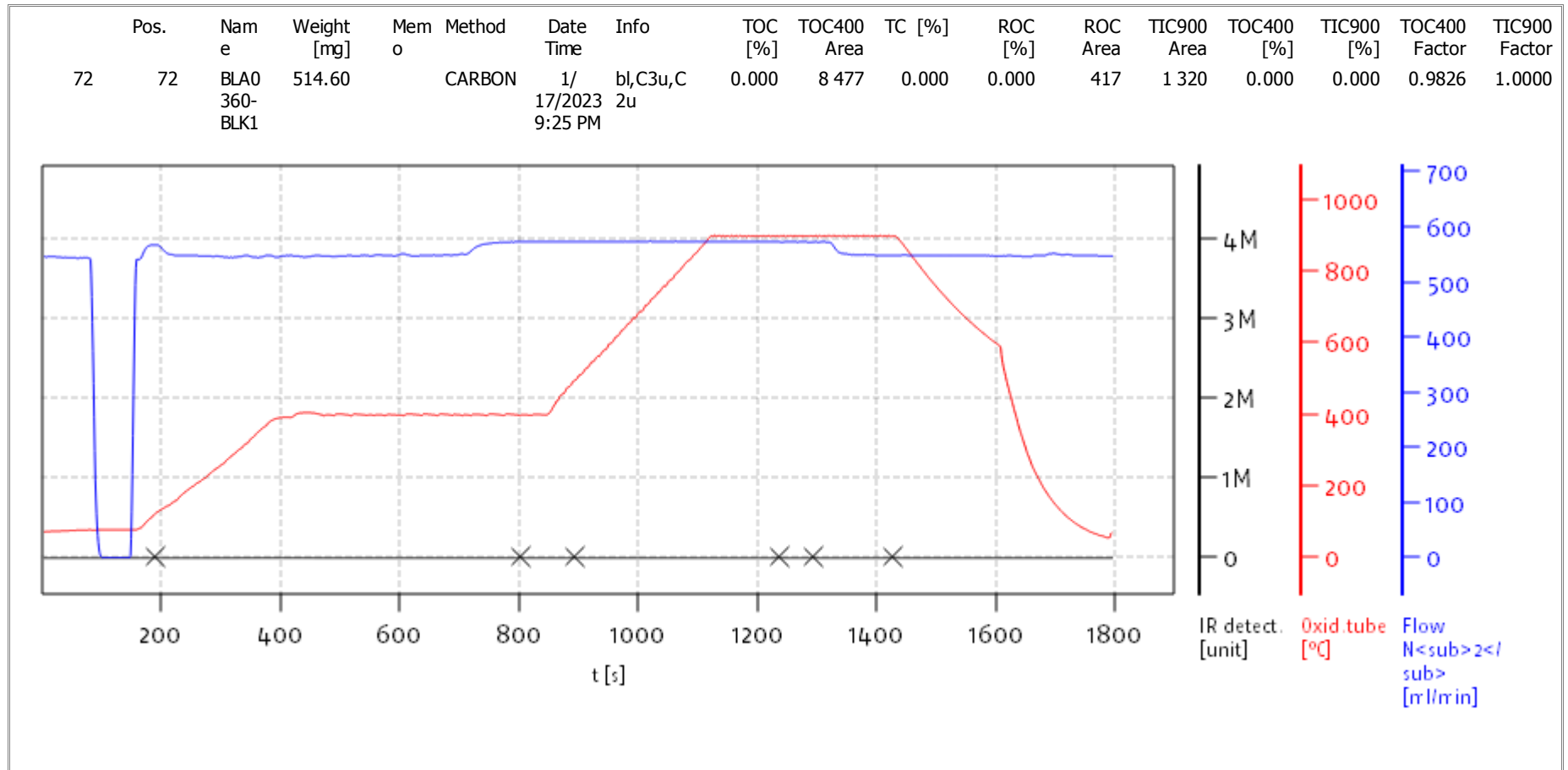


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Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



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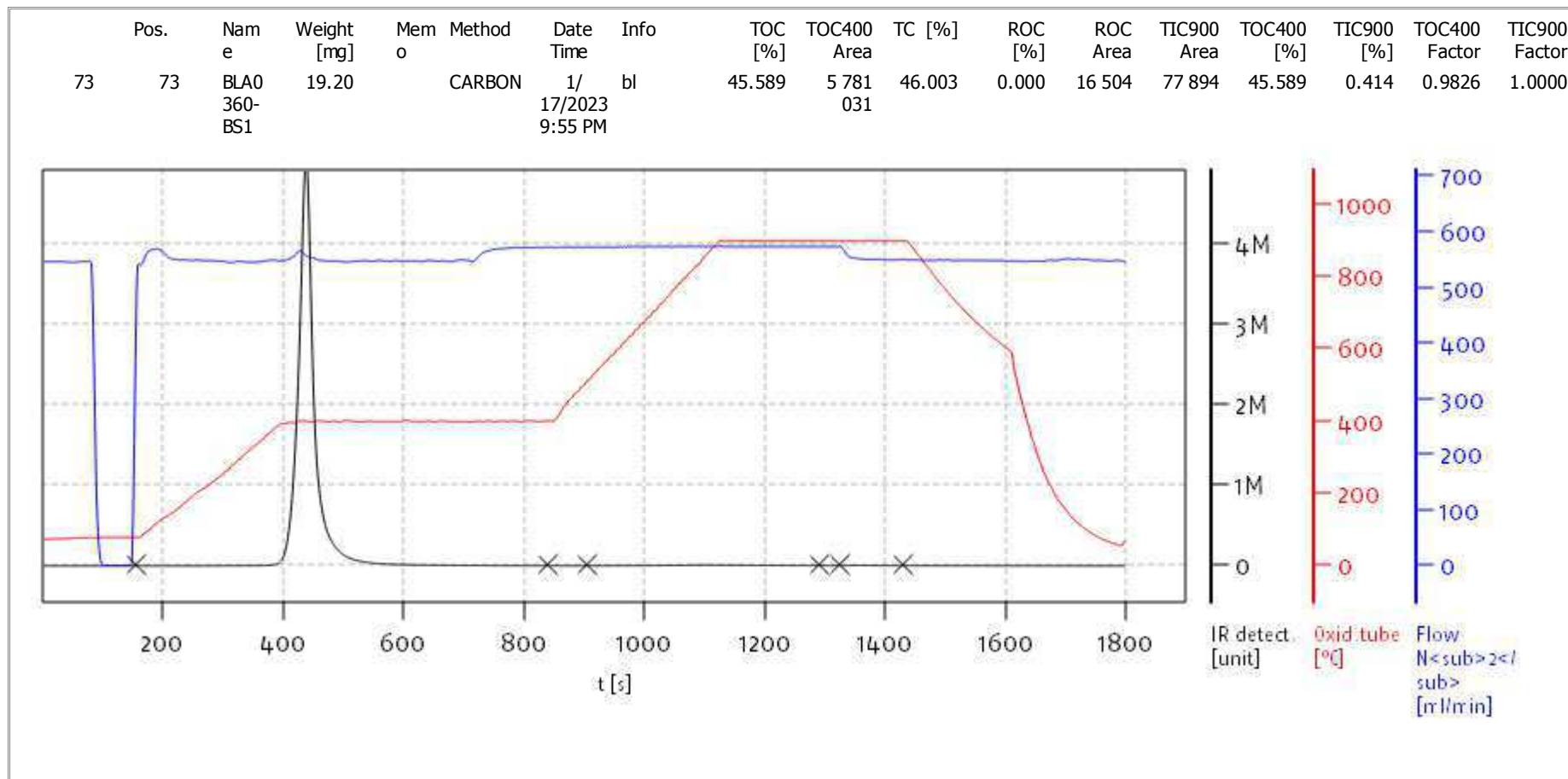
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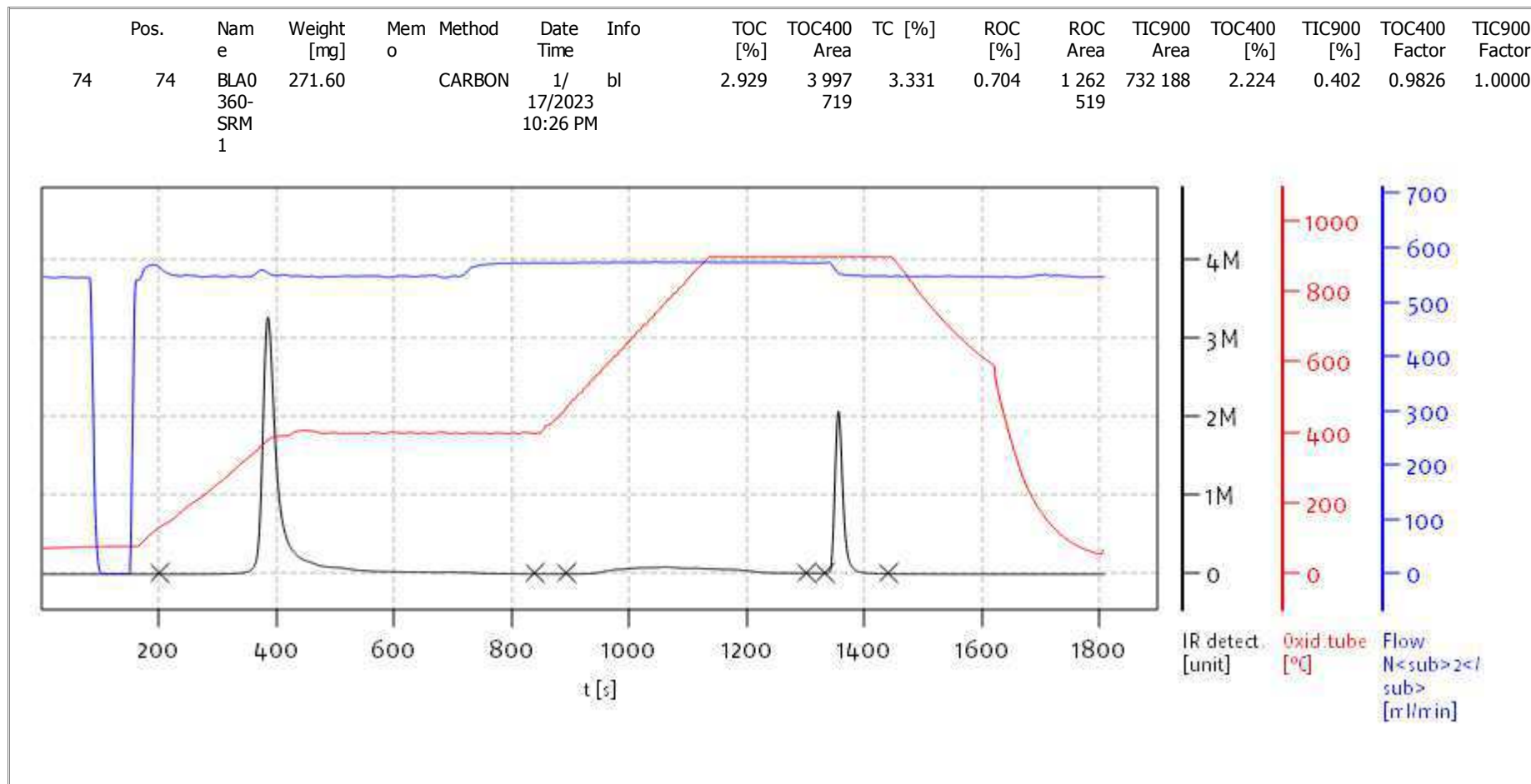
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Soli TOC Cube, Carbon  
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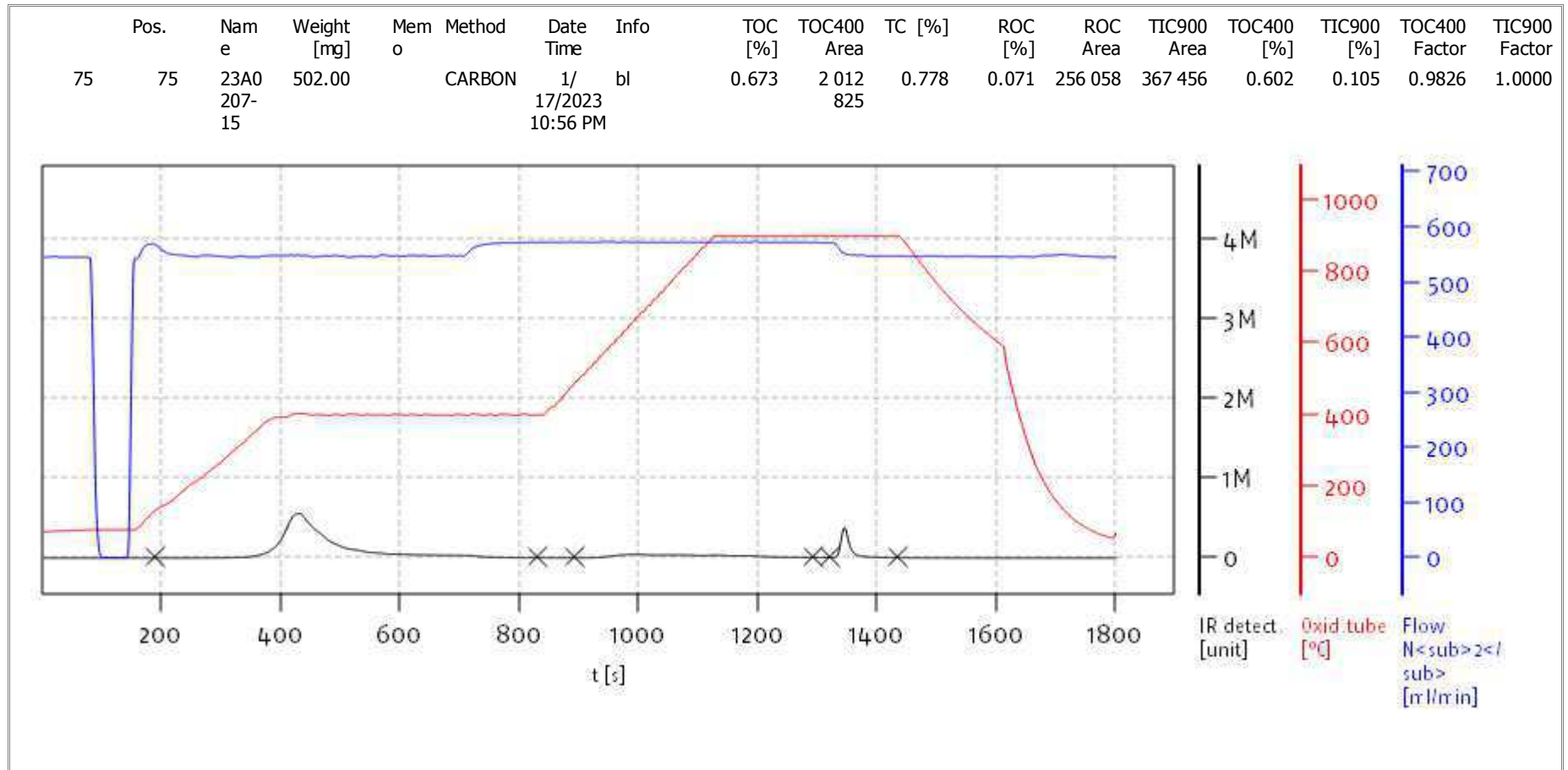
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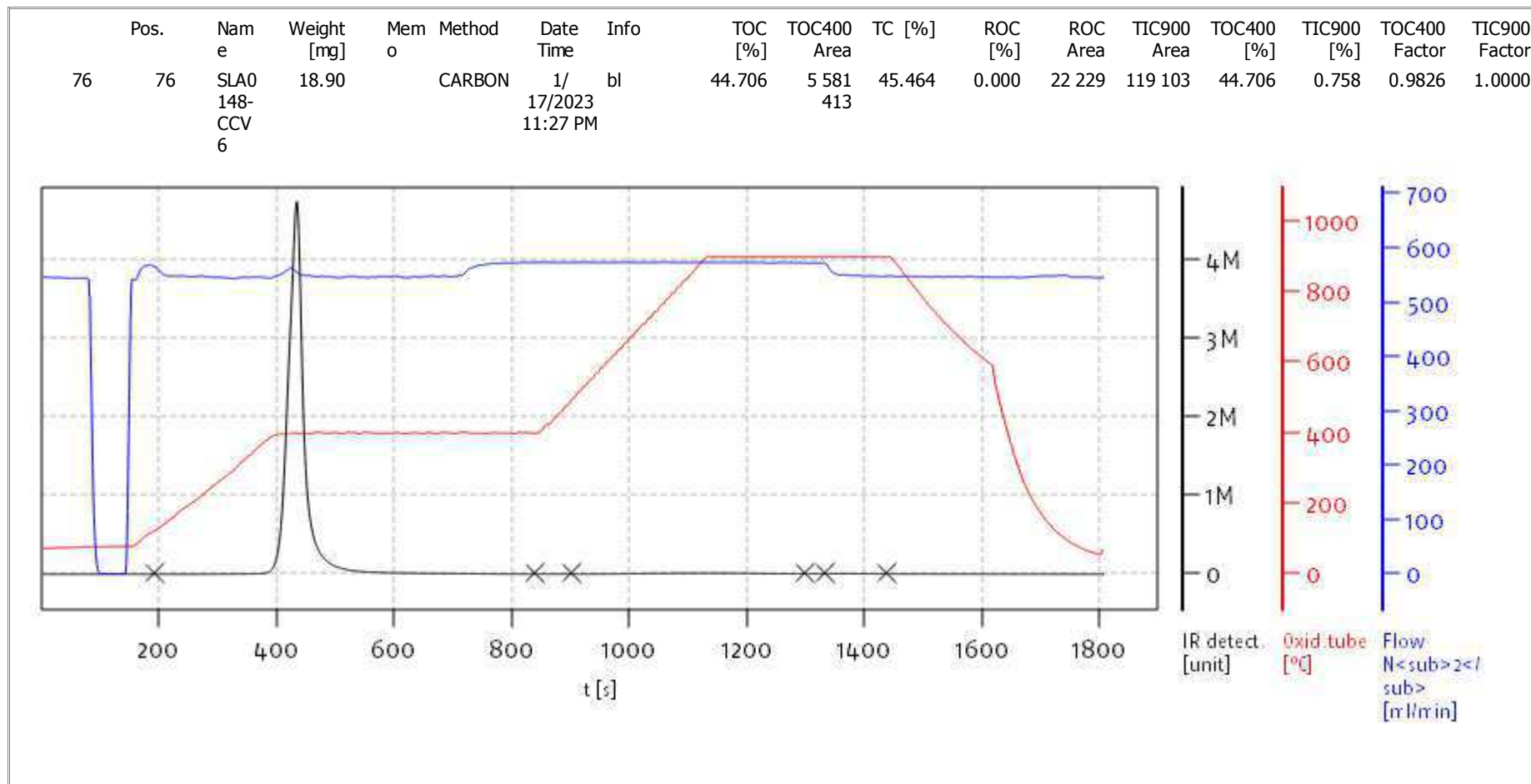
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Soli TOC Cube, Carbon  
 Balance: BAL3  
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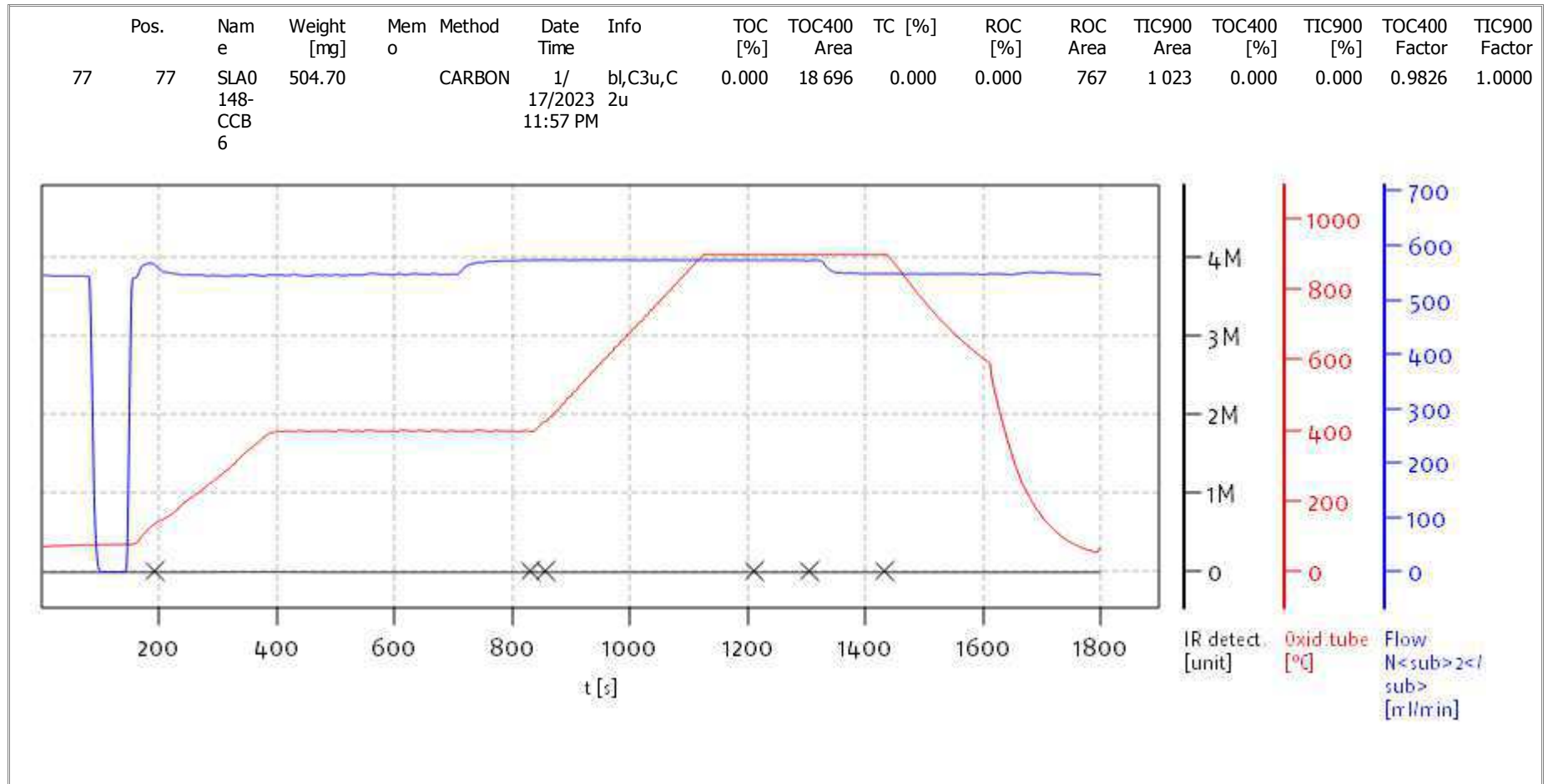
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solITOC V2.0.2 (31015f9) 2018-11-19  
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 Mode CCC



**Soli TOC Cube, Carbon**  
**Balance: BAL3**  
**Analyst: DOE**



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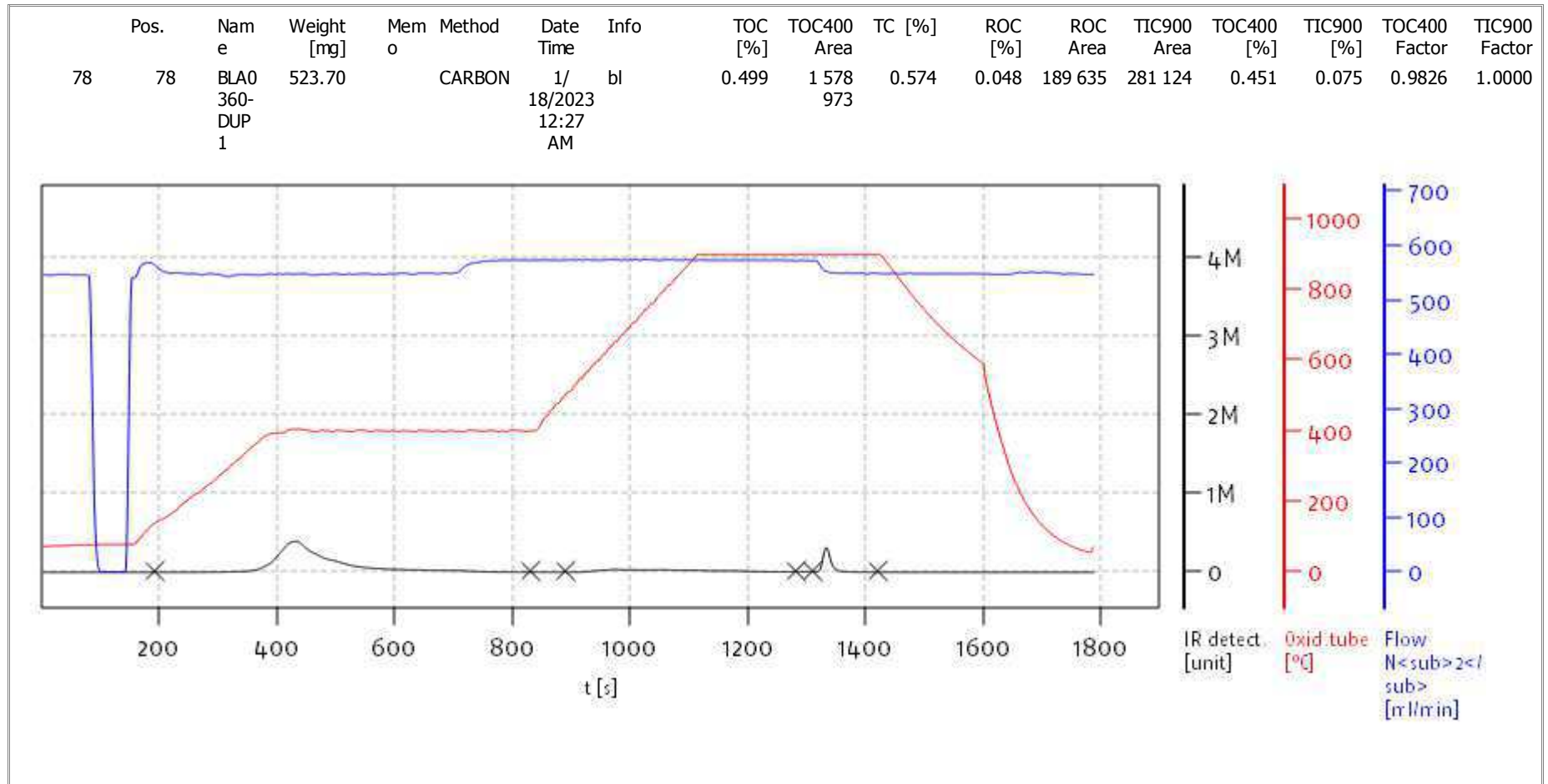
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Soli TOC Cube, Carbon  
 Balance: BAL3  
 Analyst: DOE



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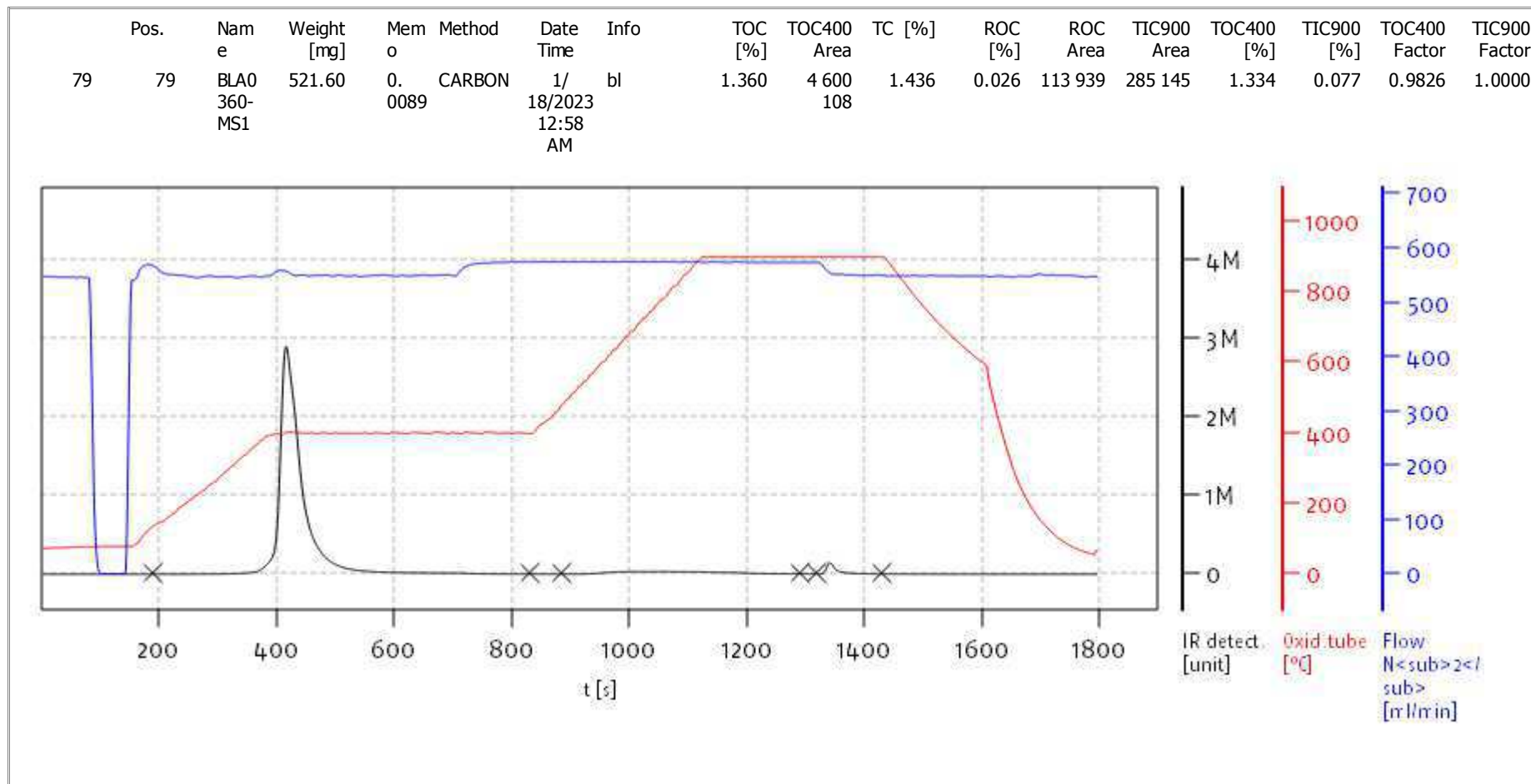
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Soli TOC Cube, Carbon  
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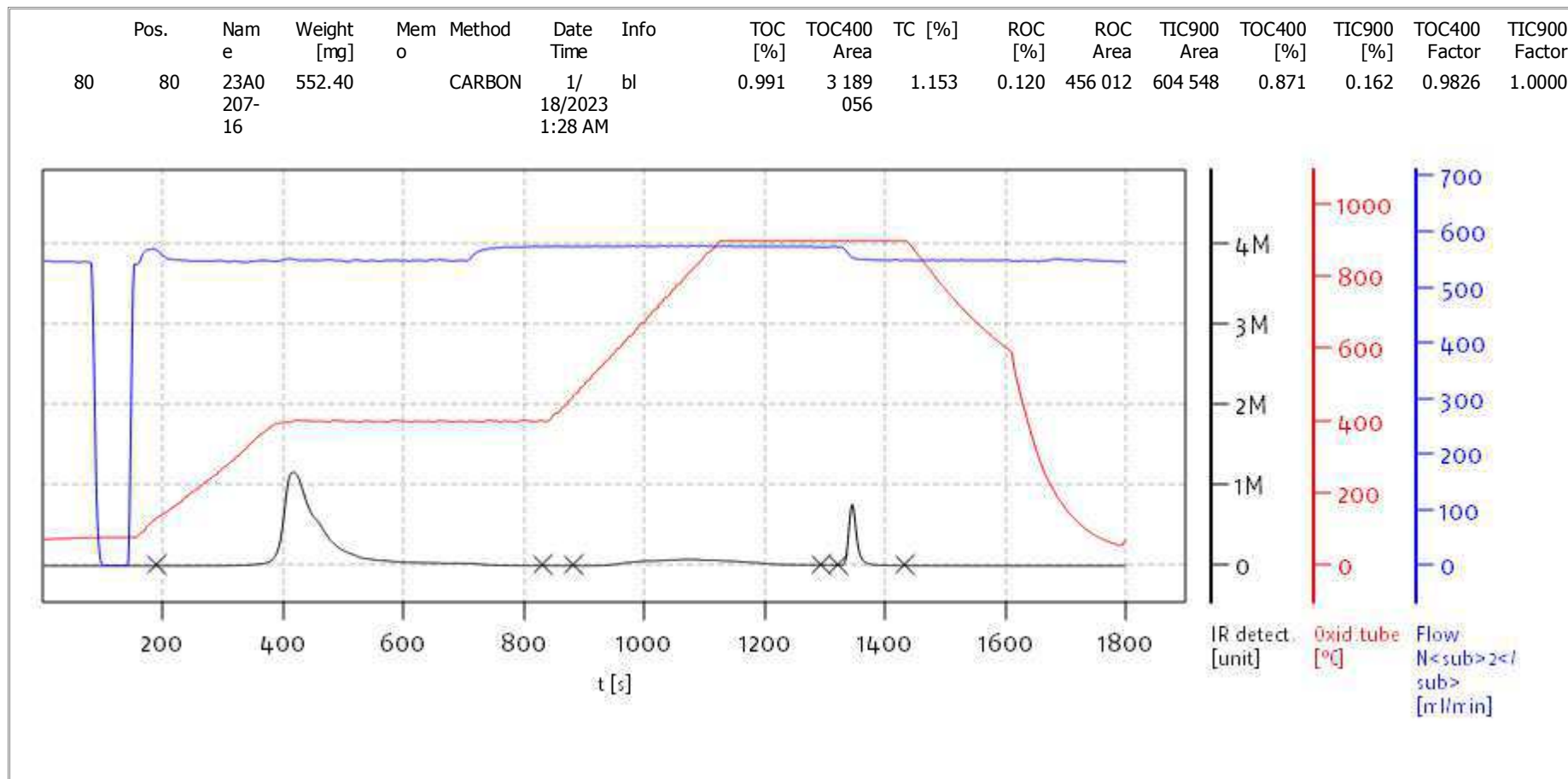
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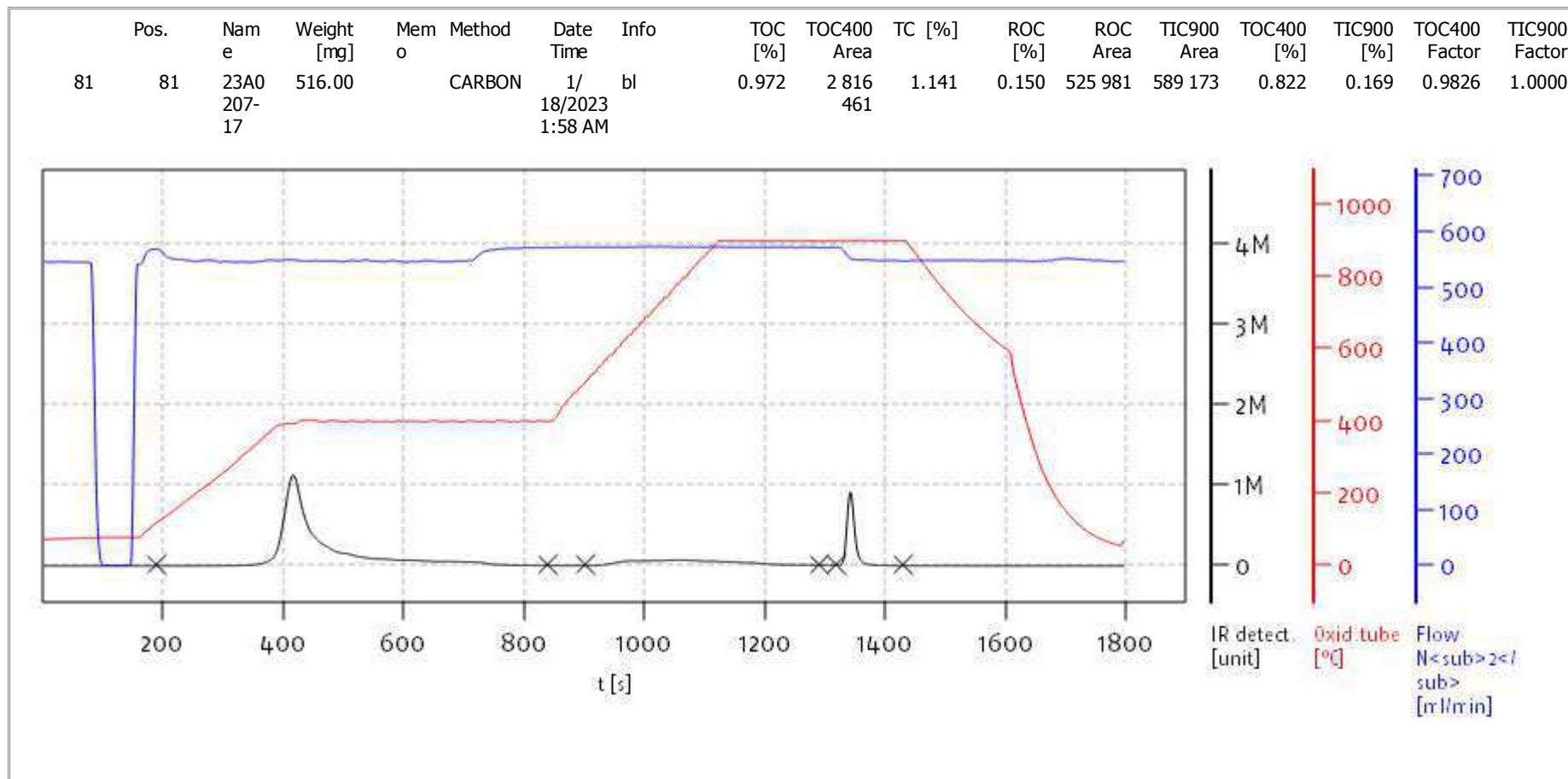
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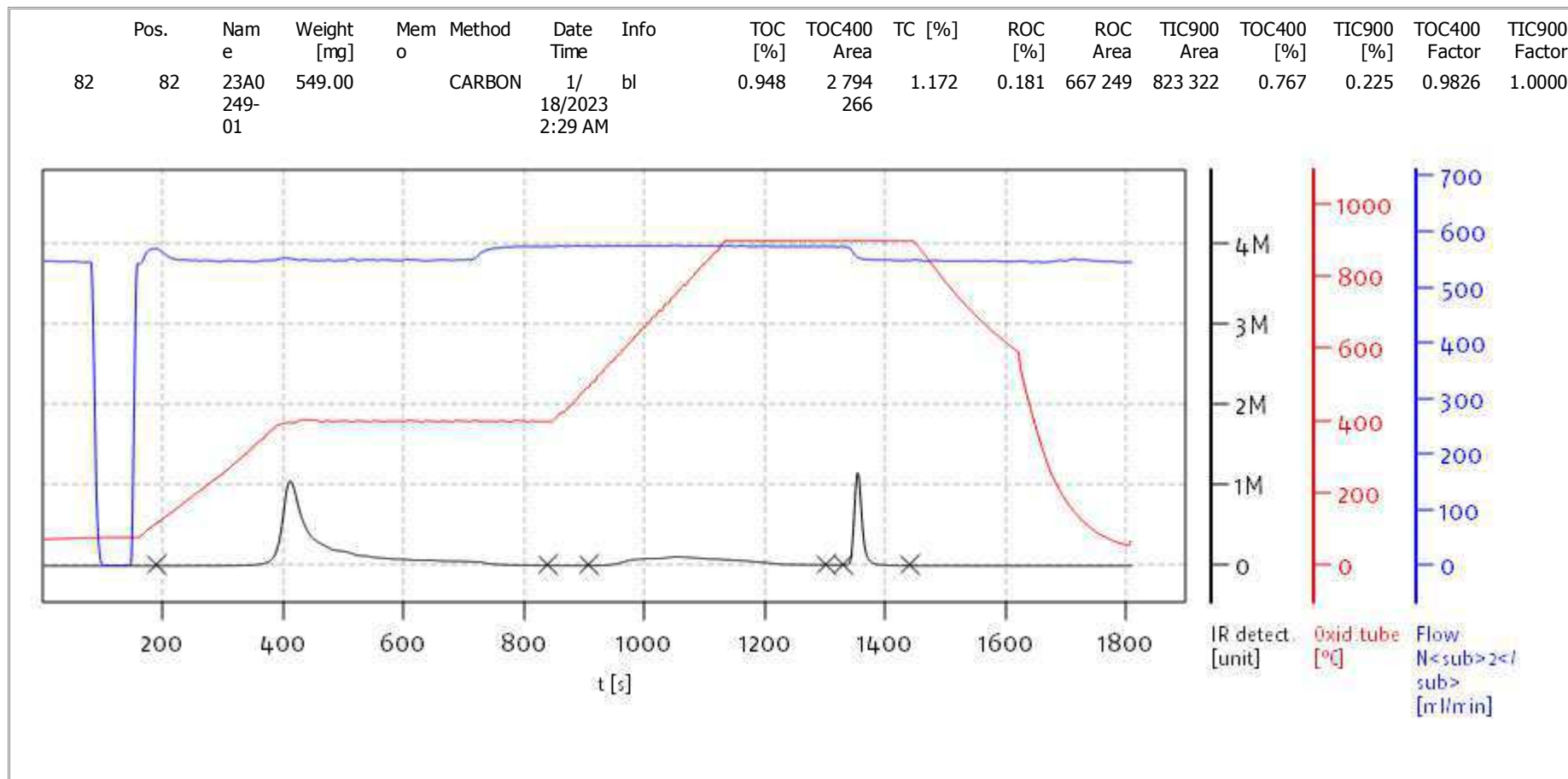
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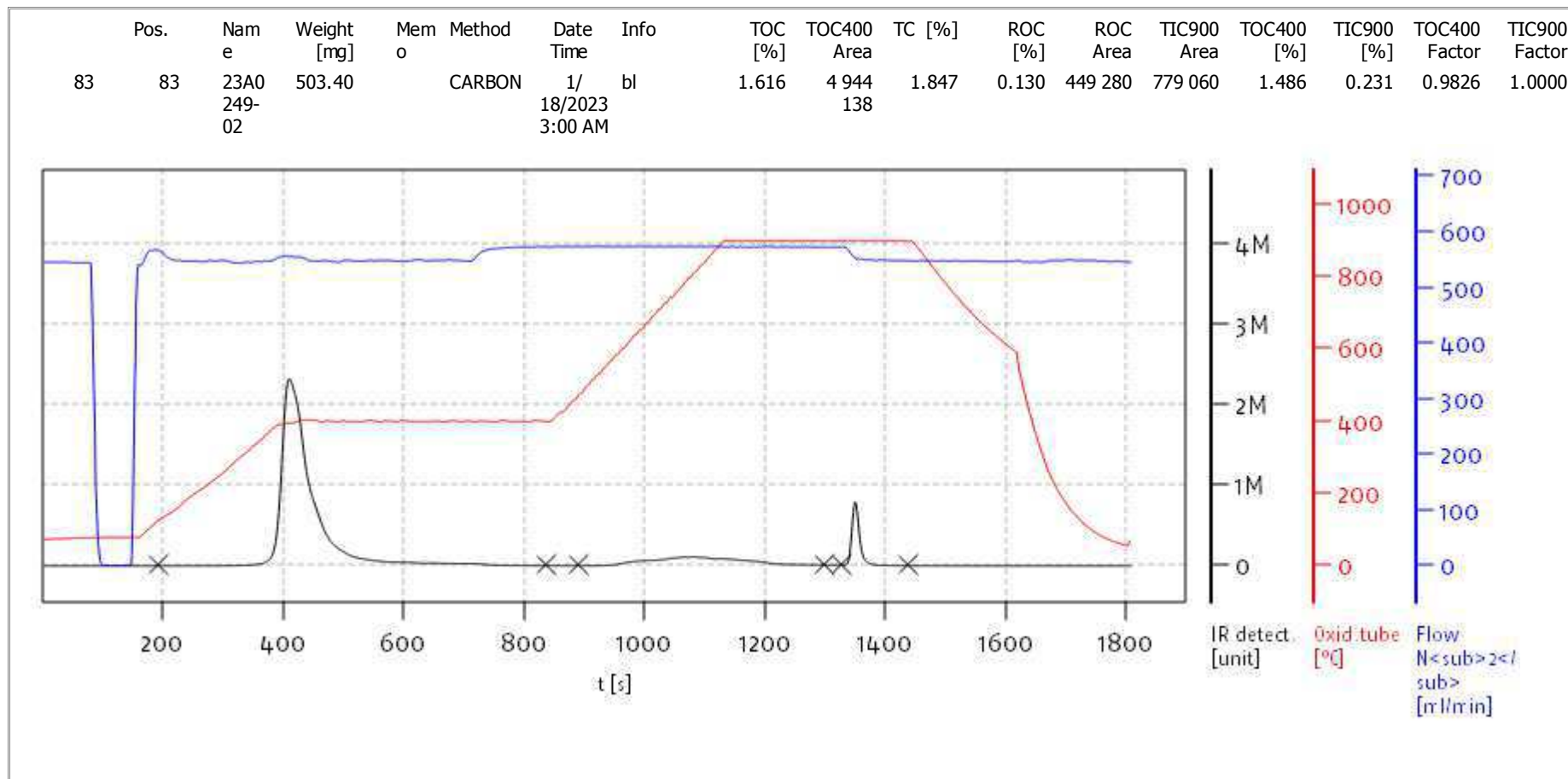
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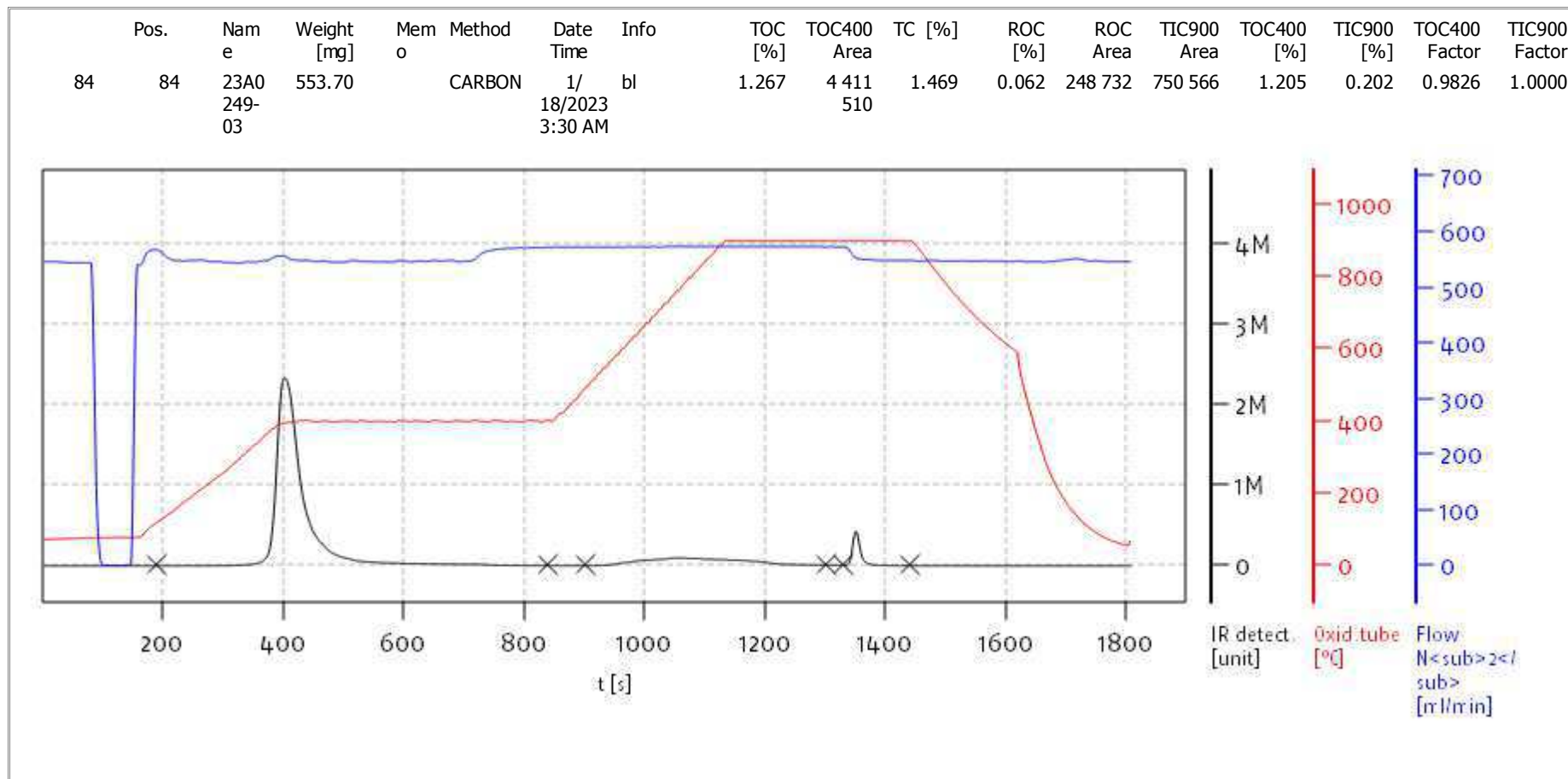
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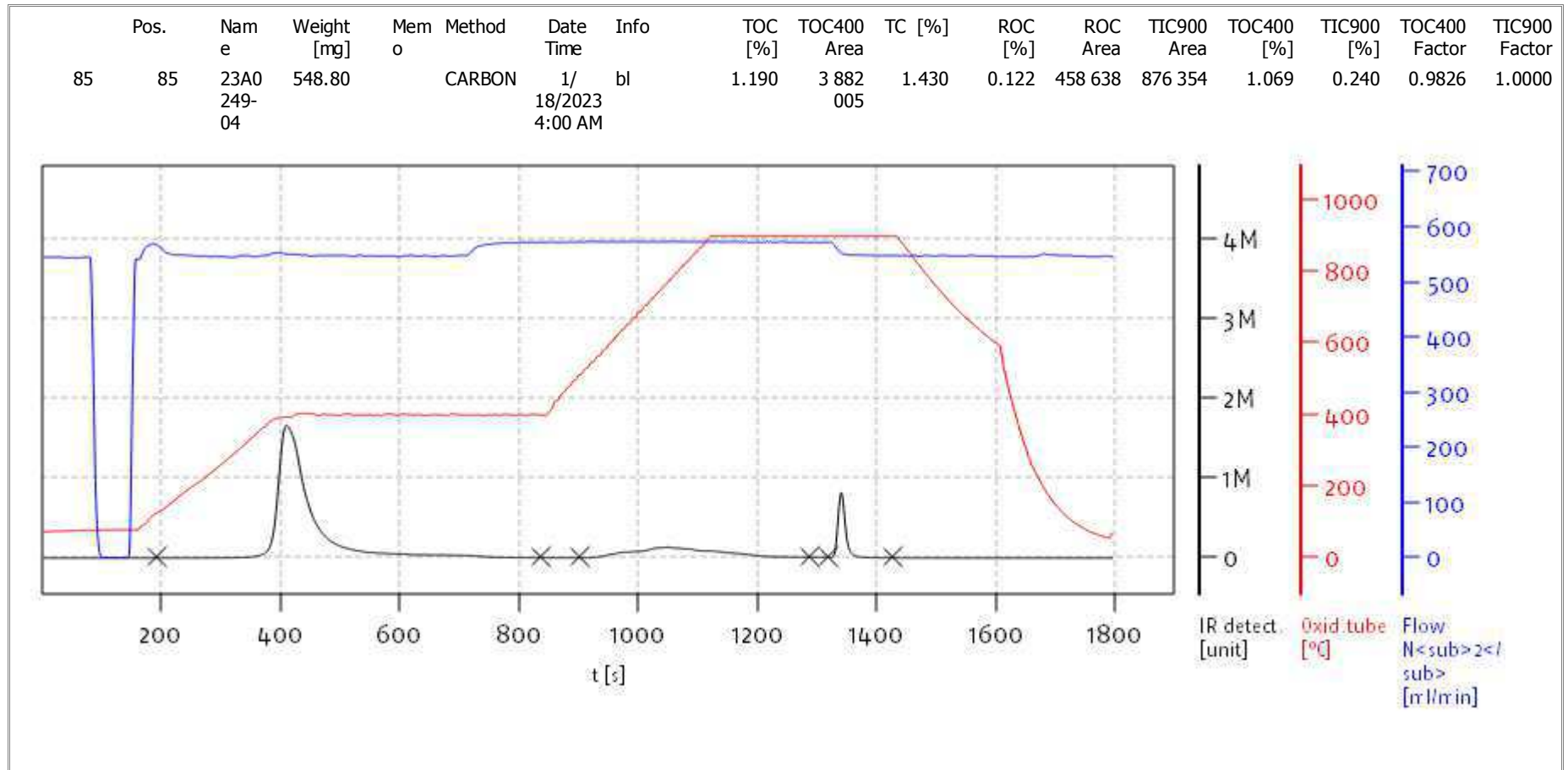
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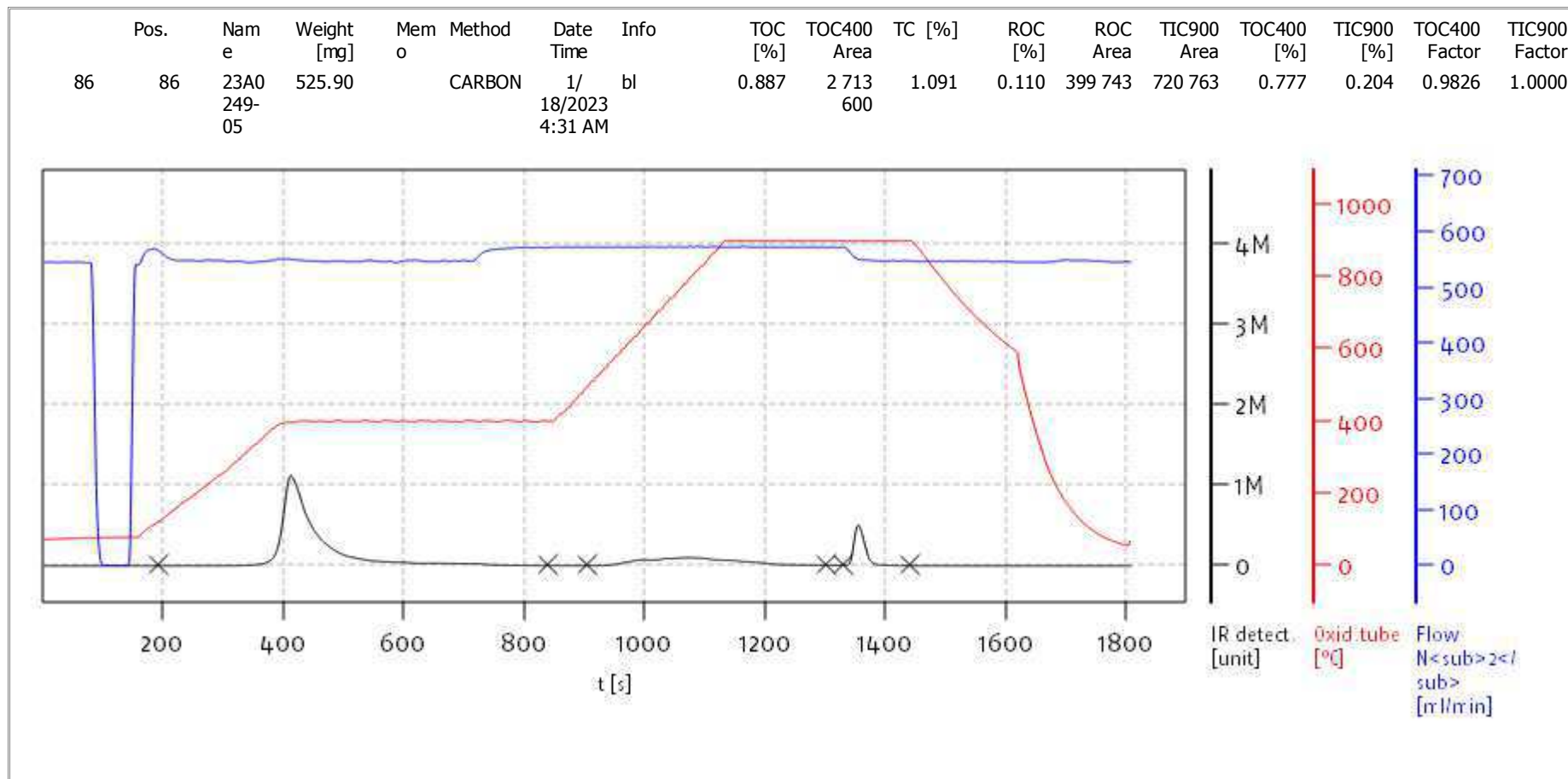
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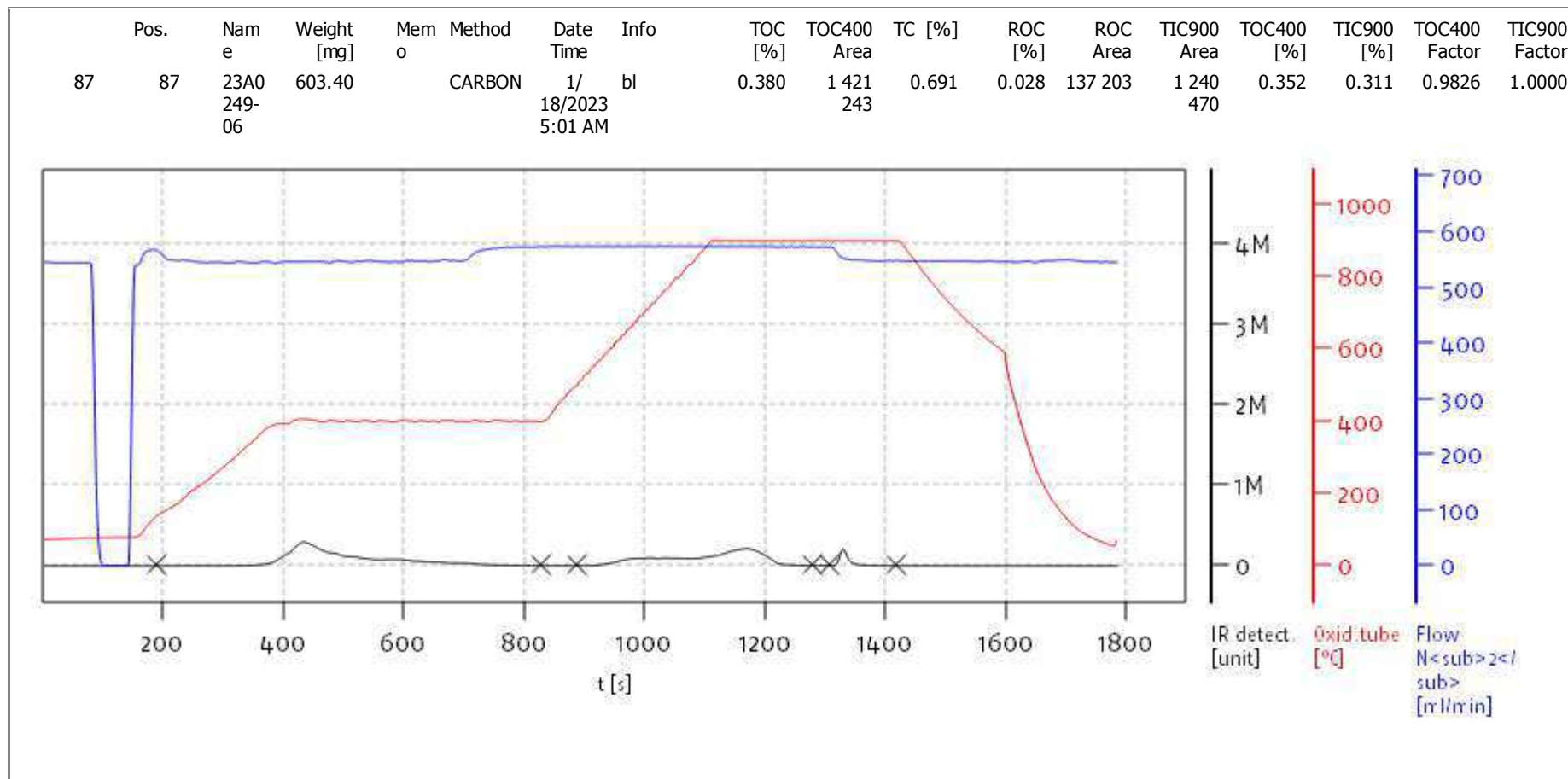
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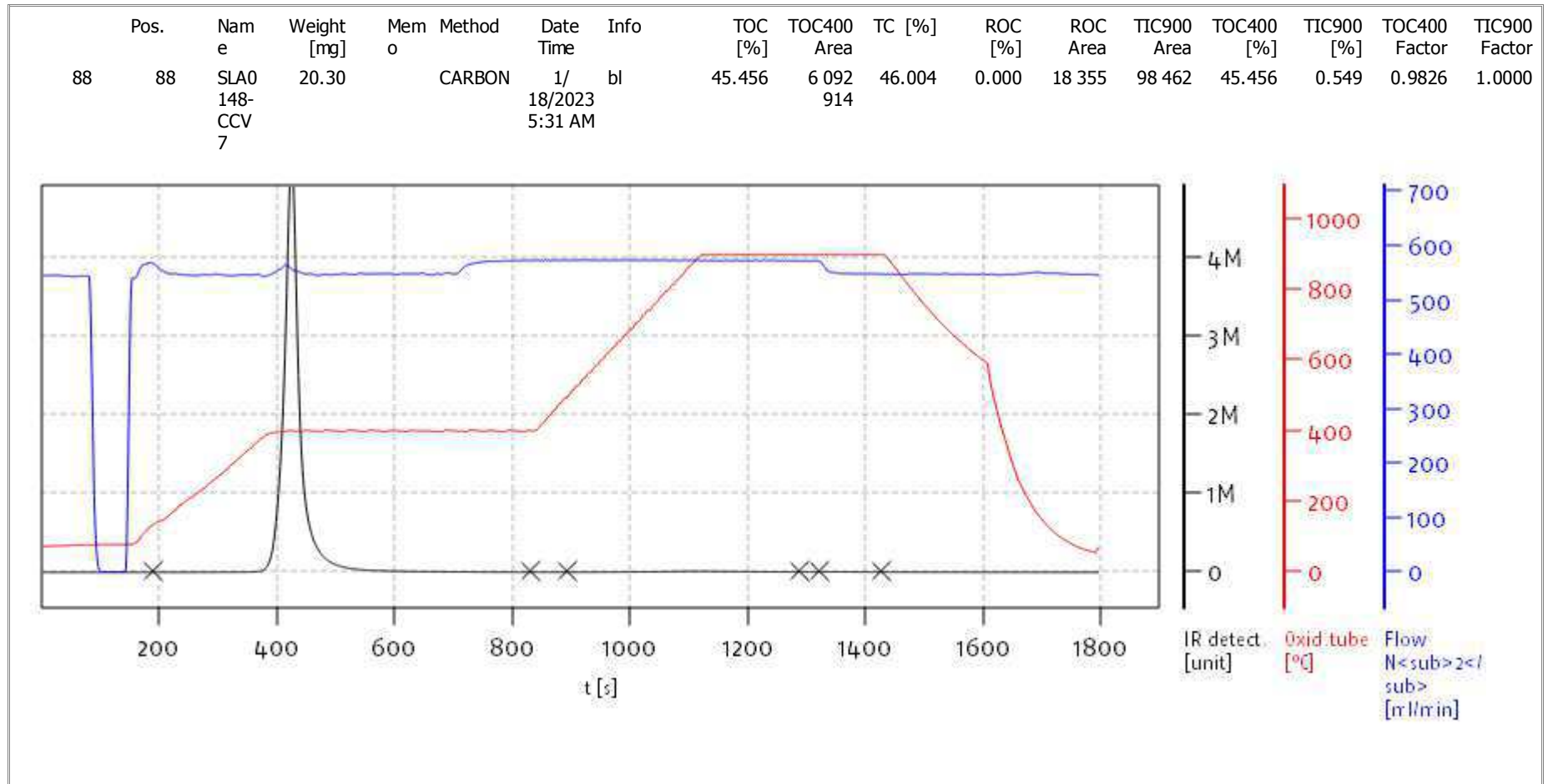
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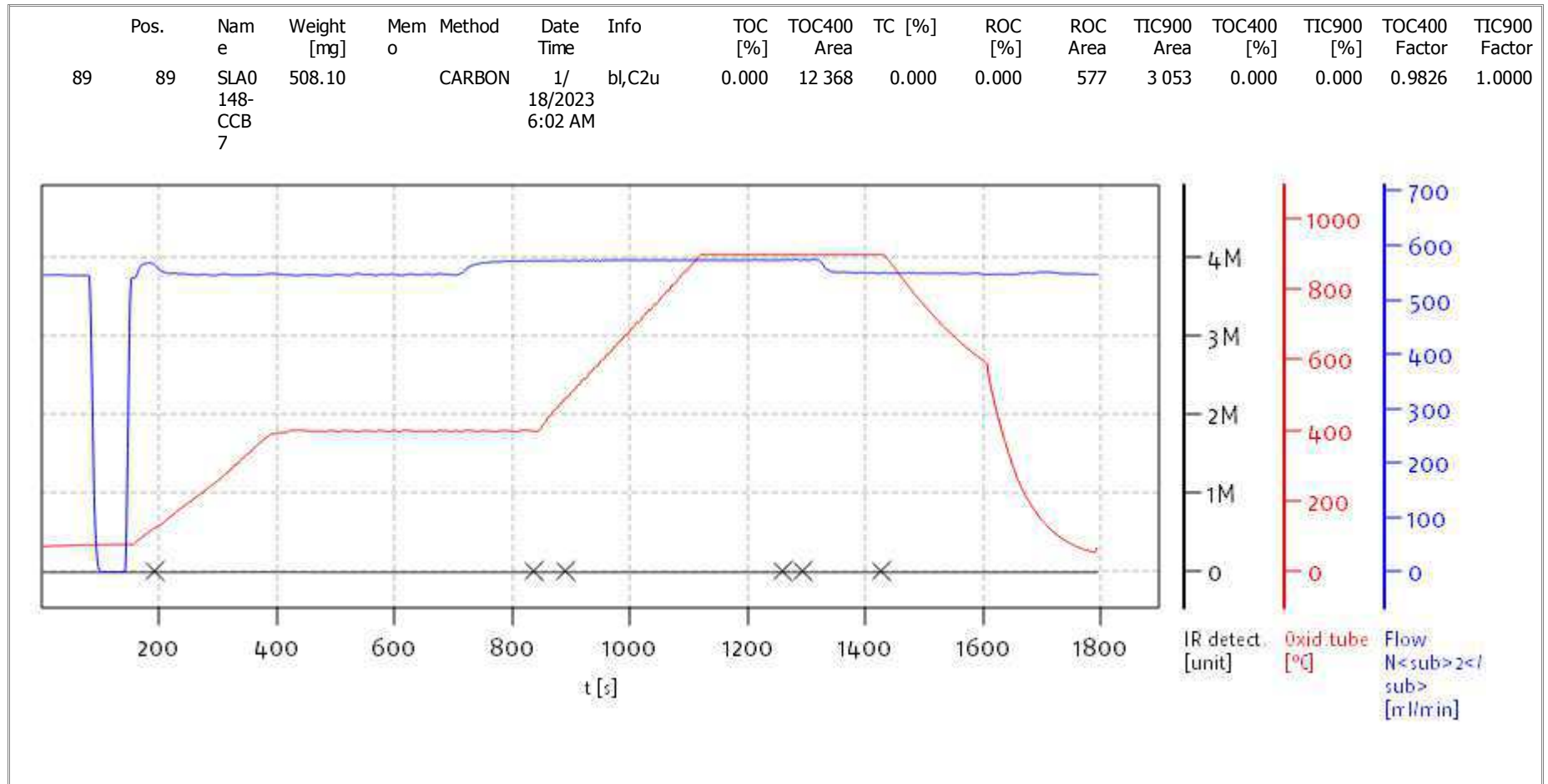
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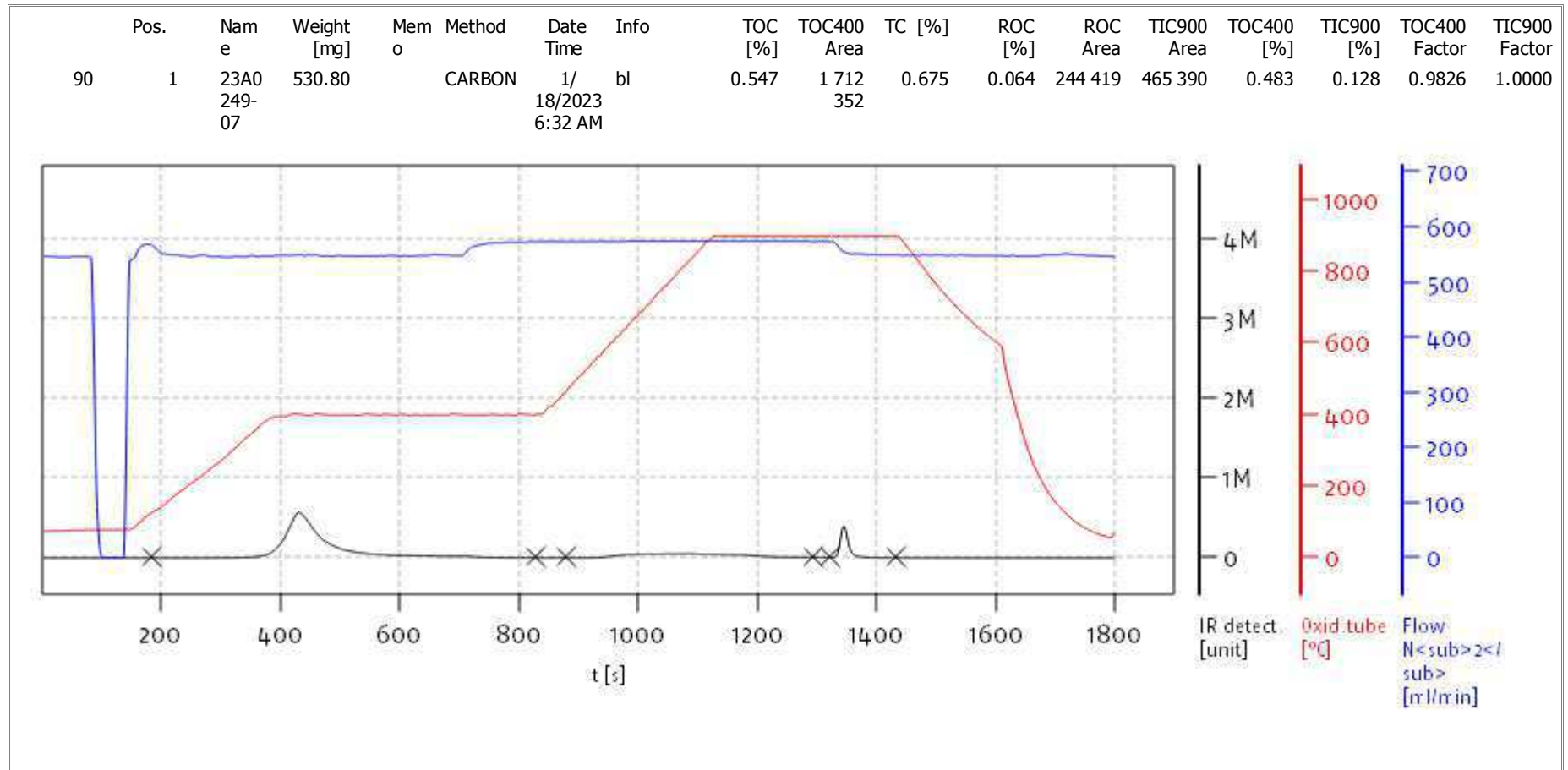
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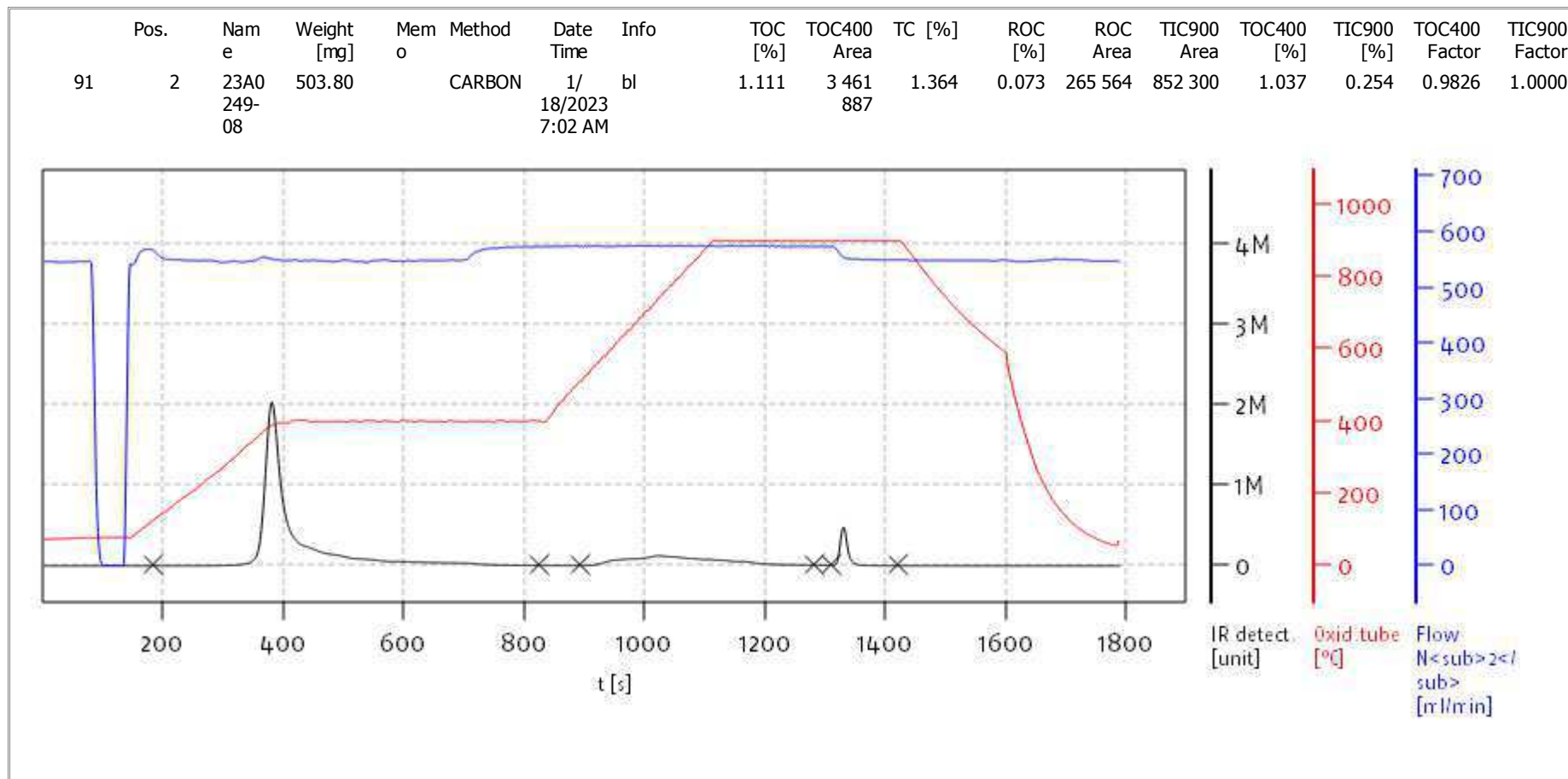
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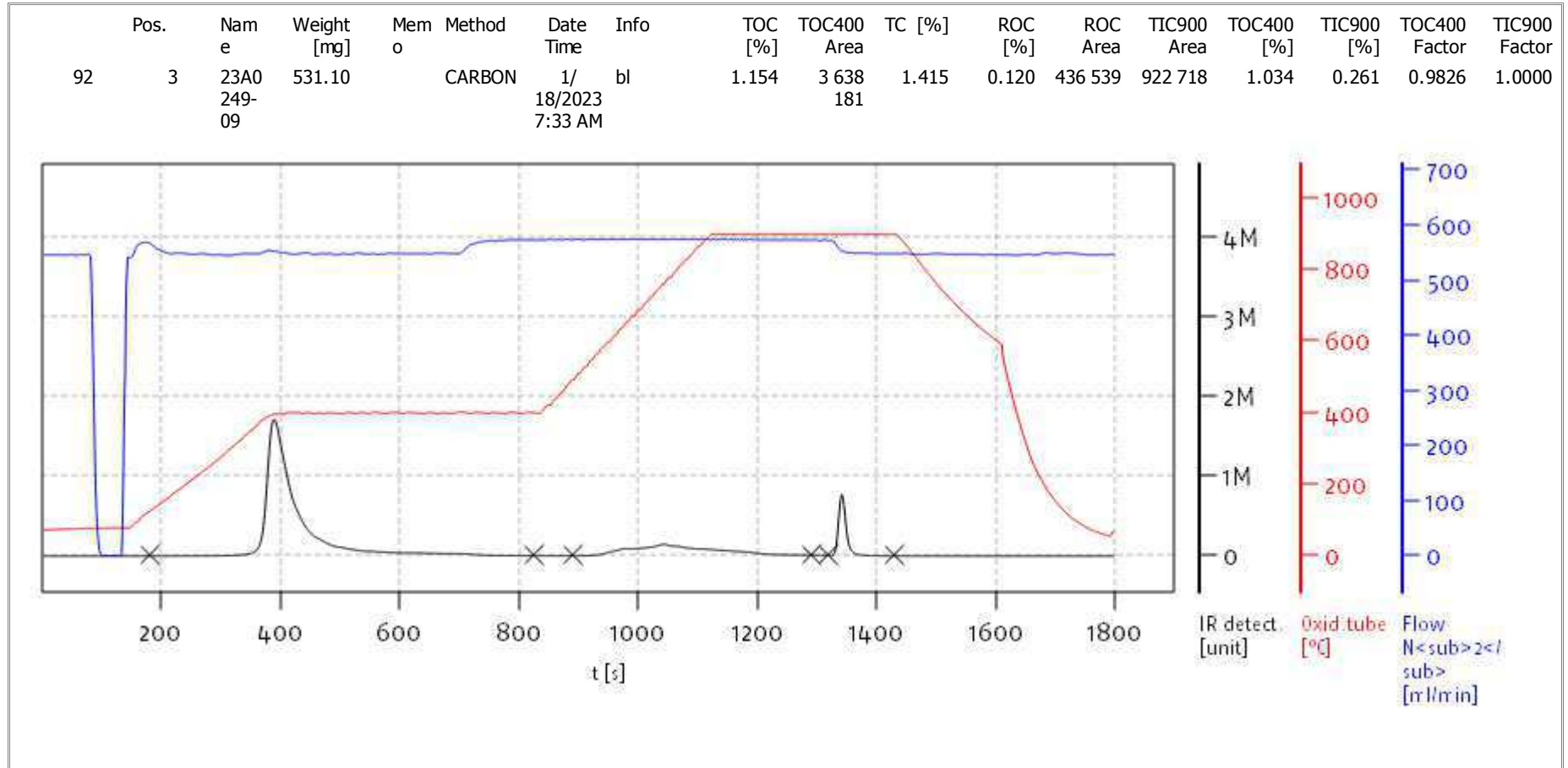
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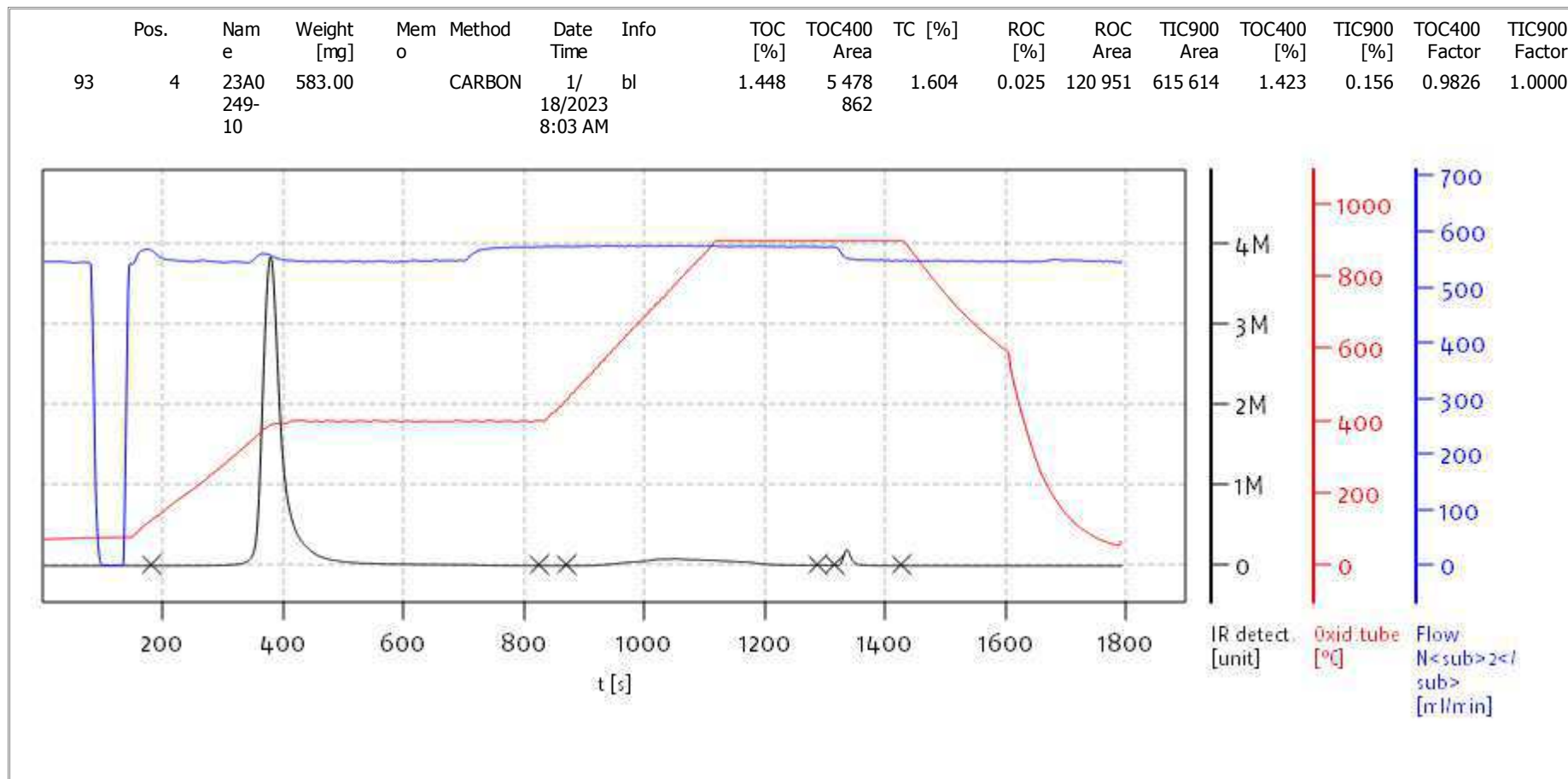
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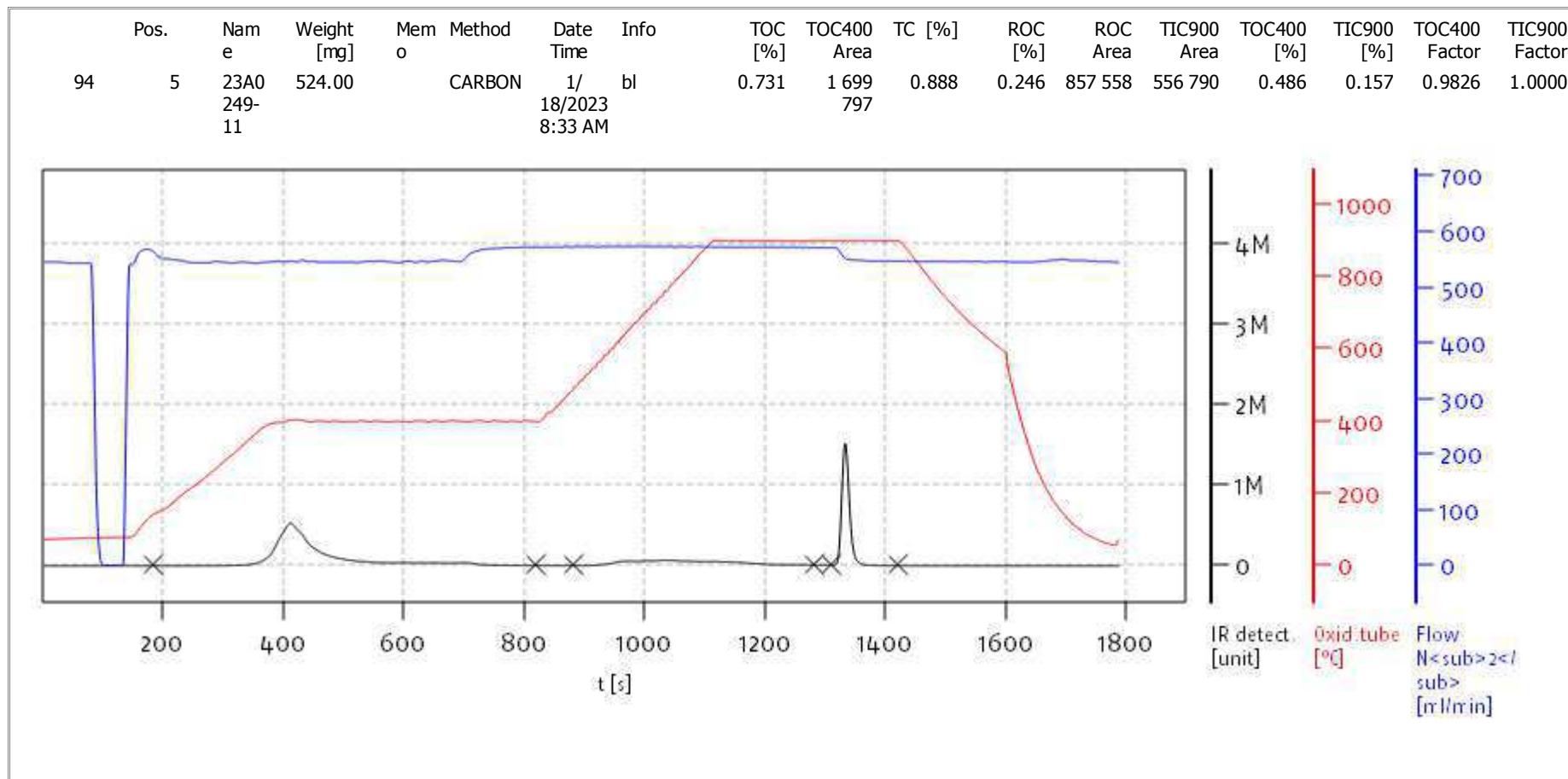
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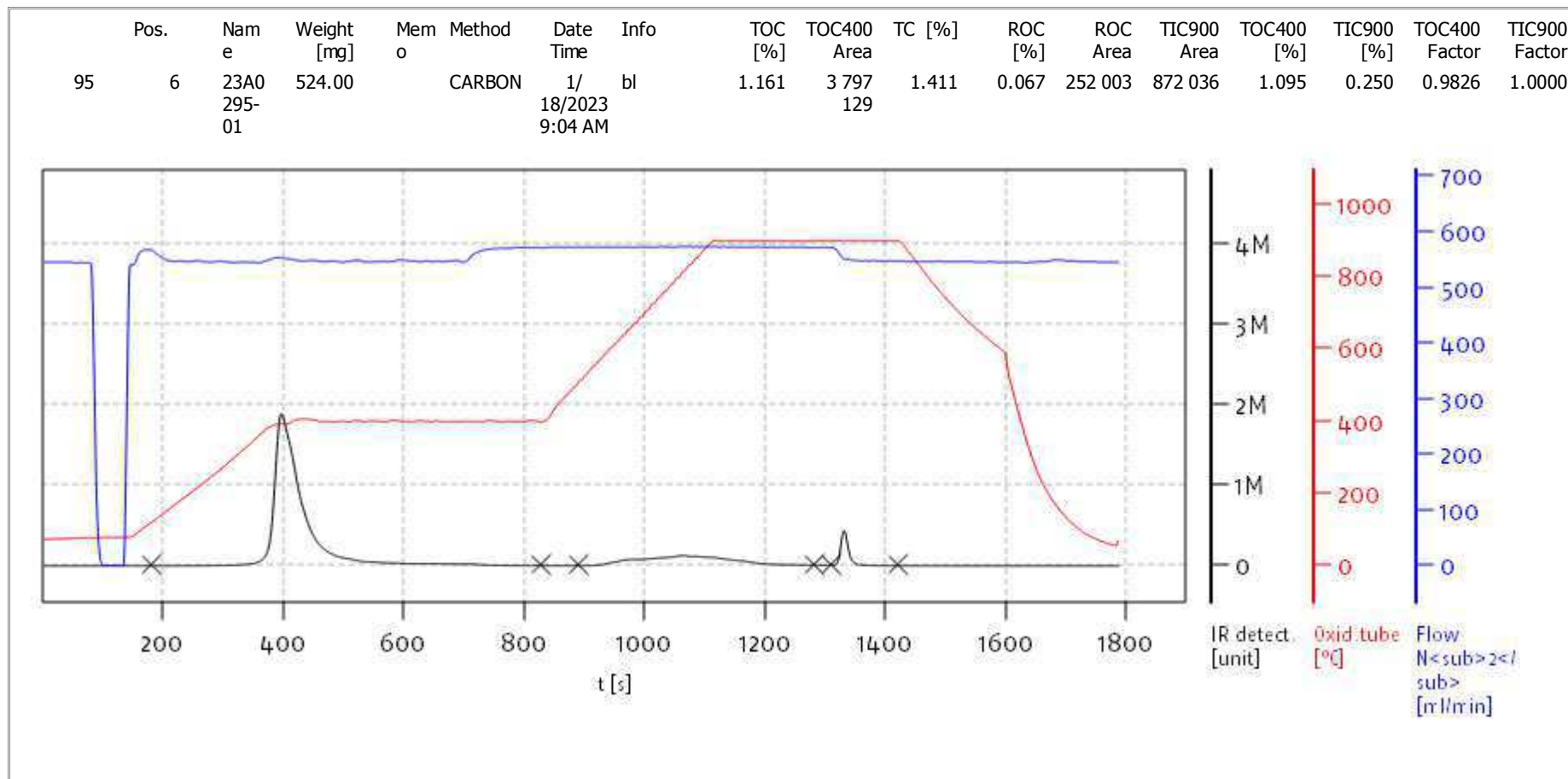
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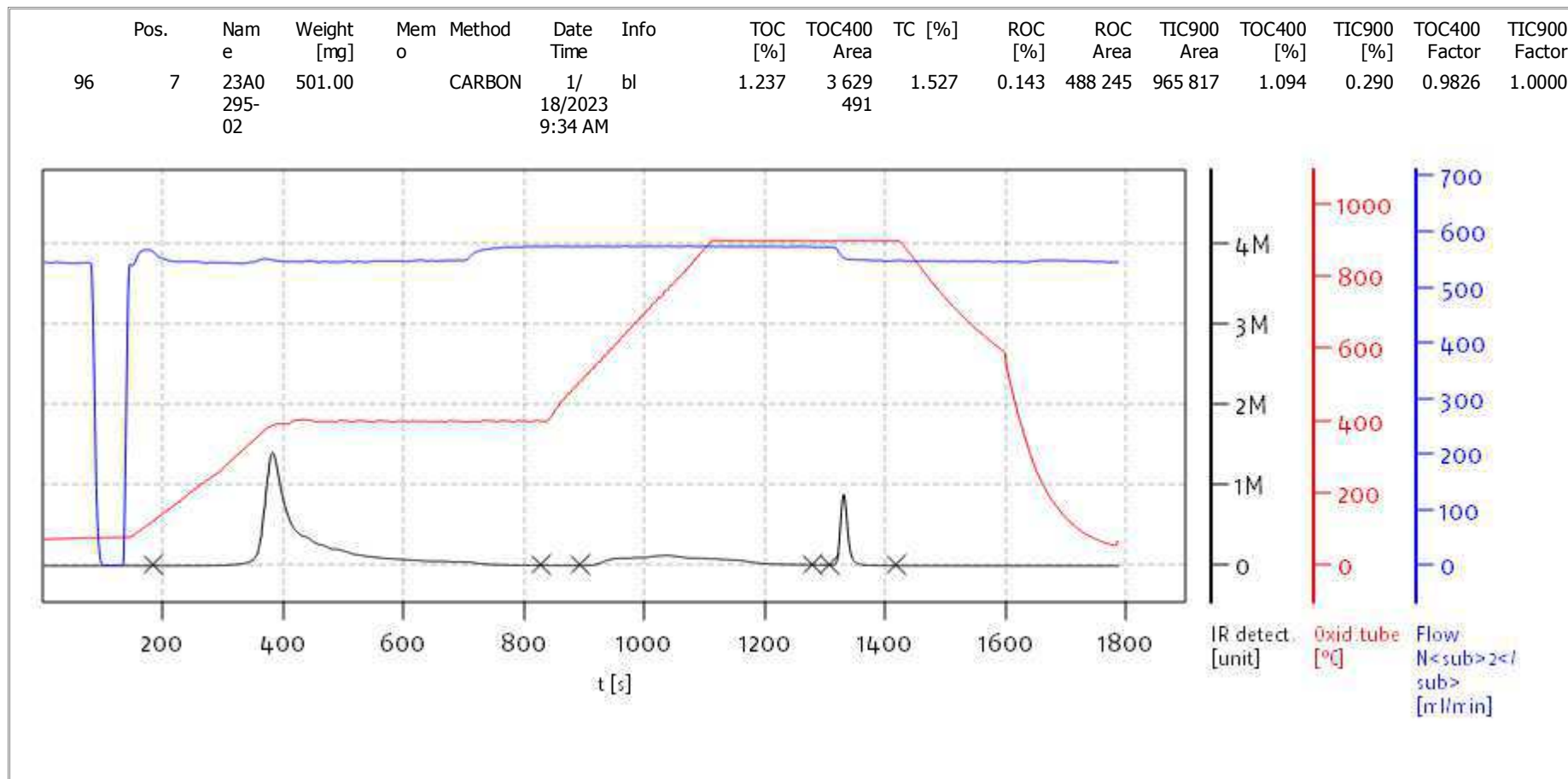
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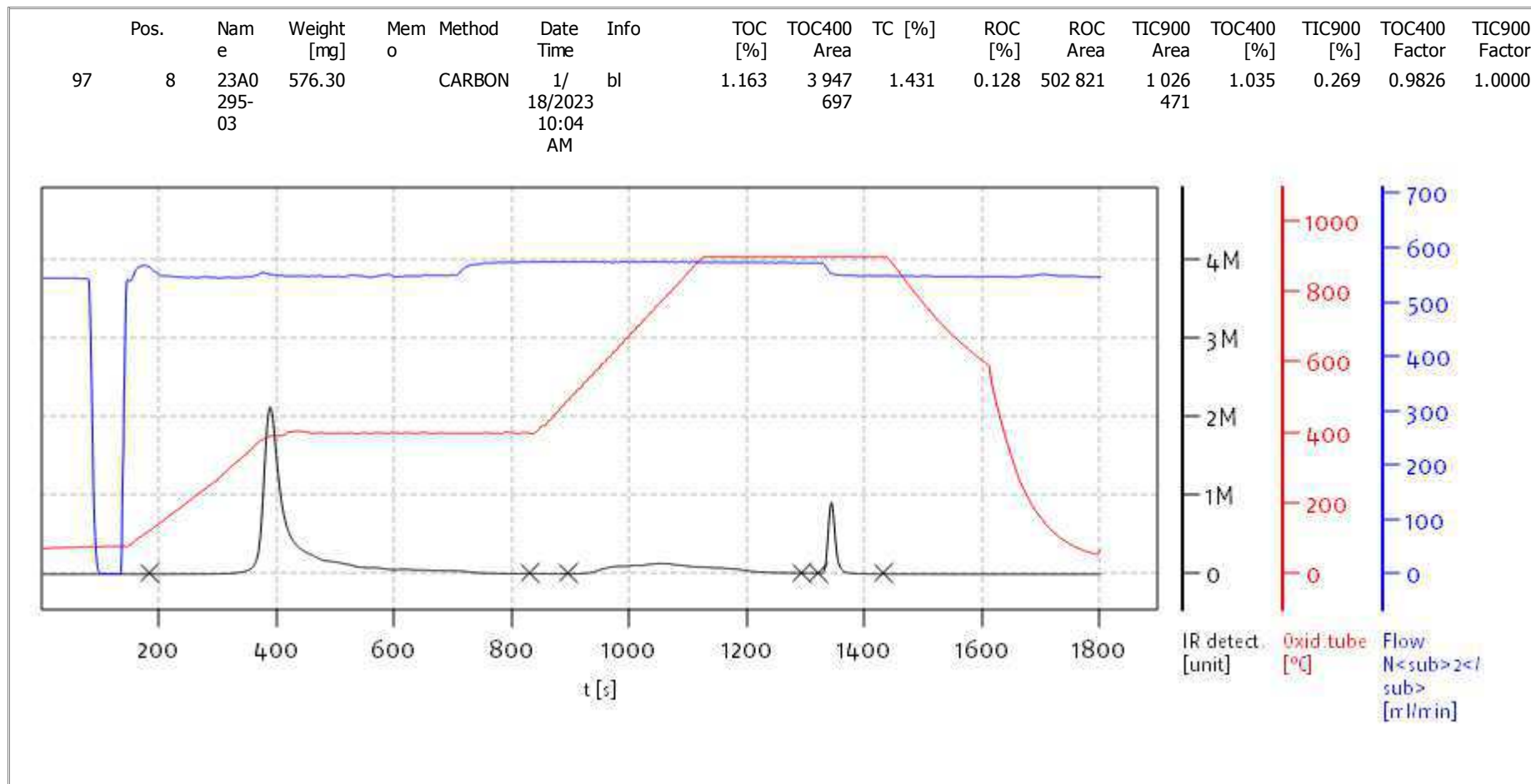
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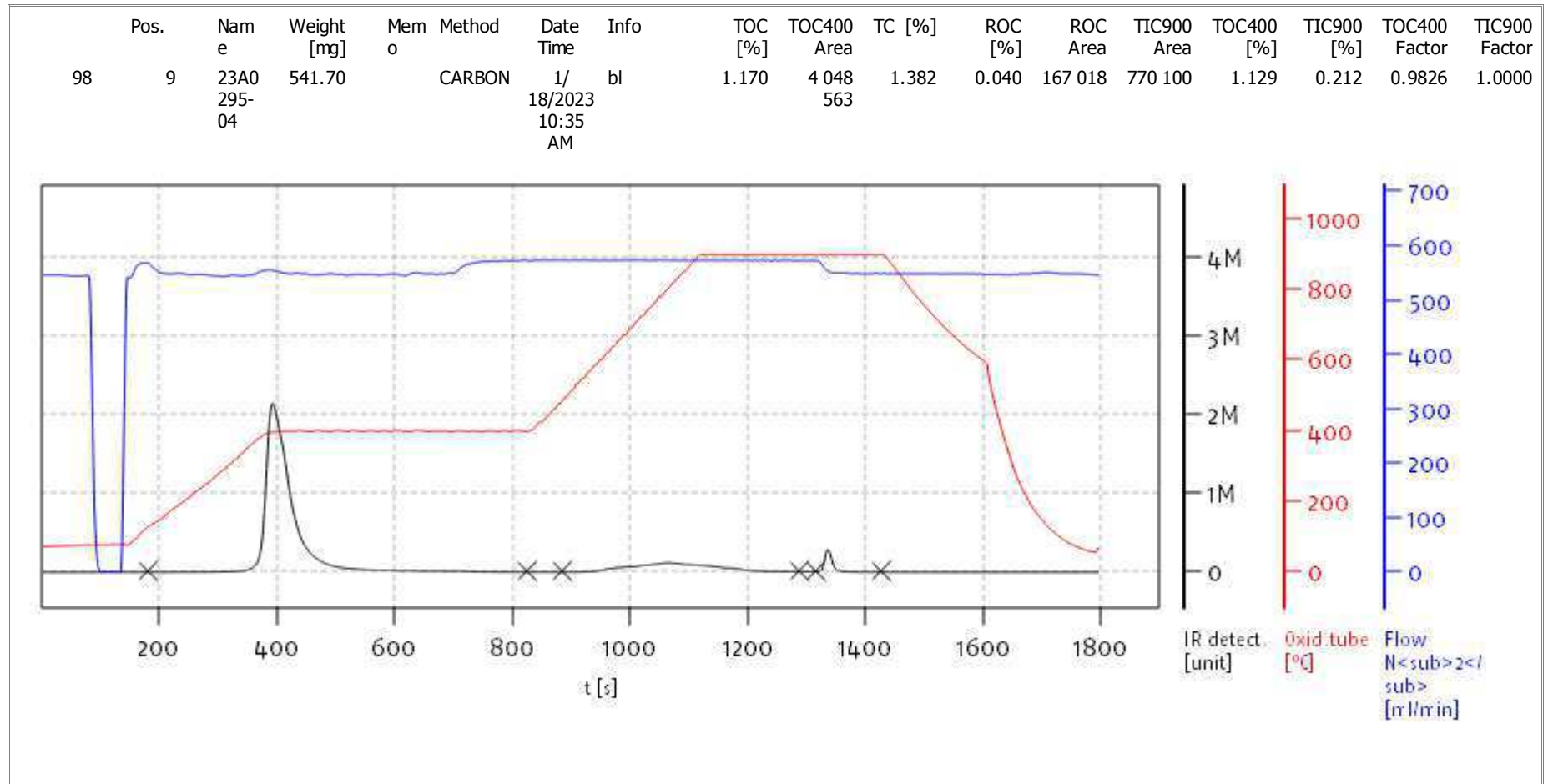
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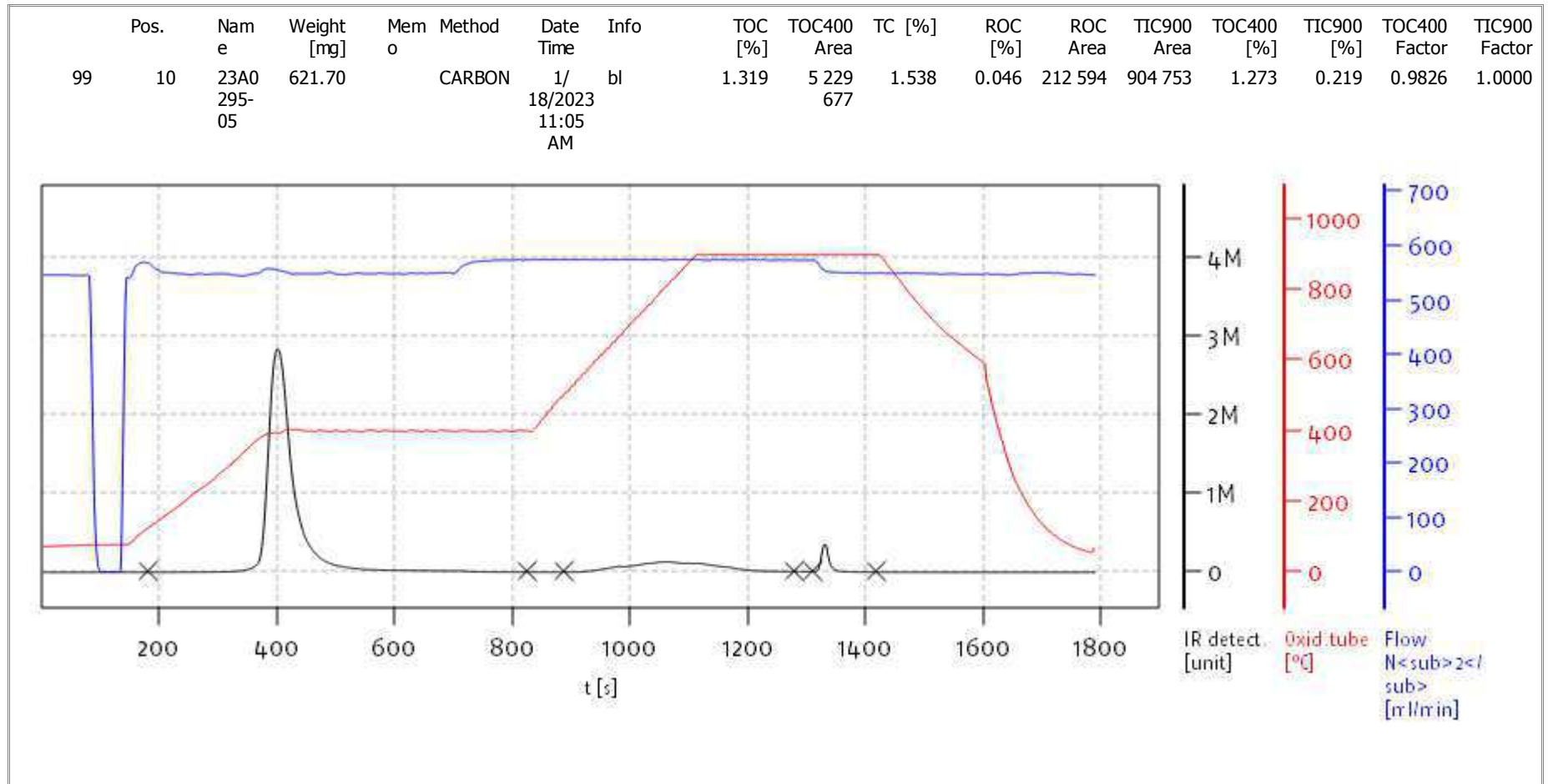
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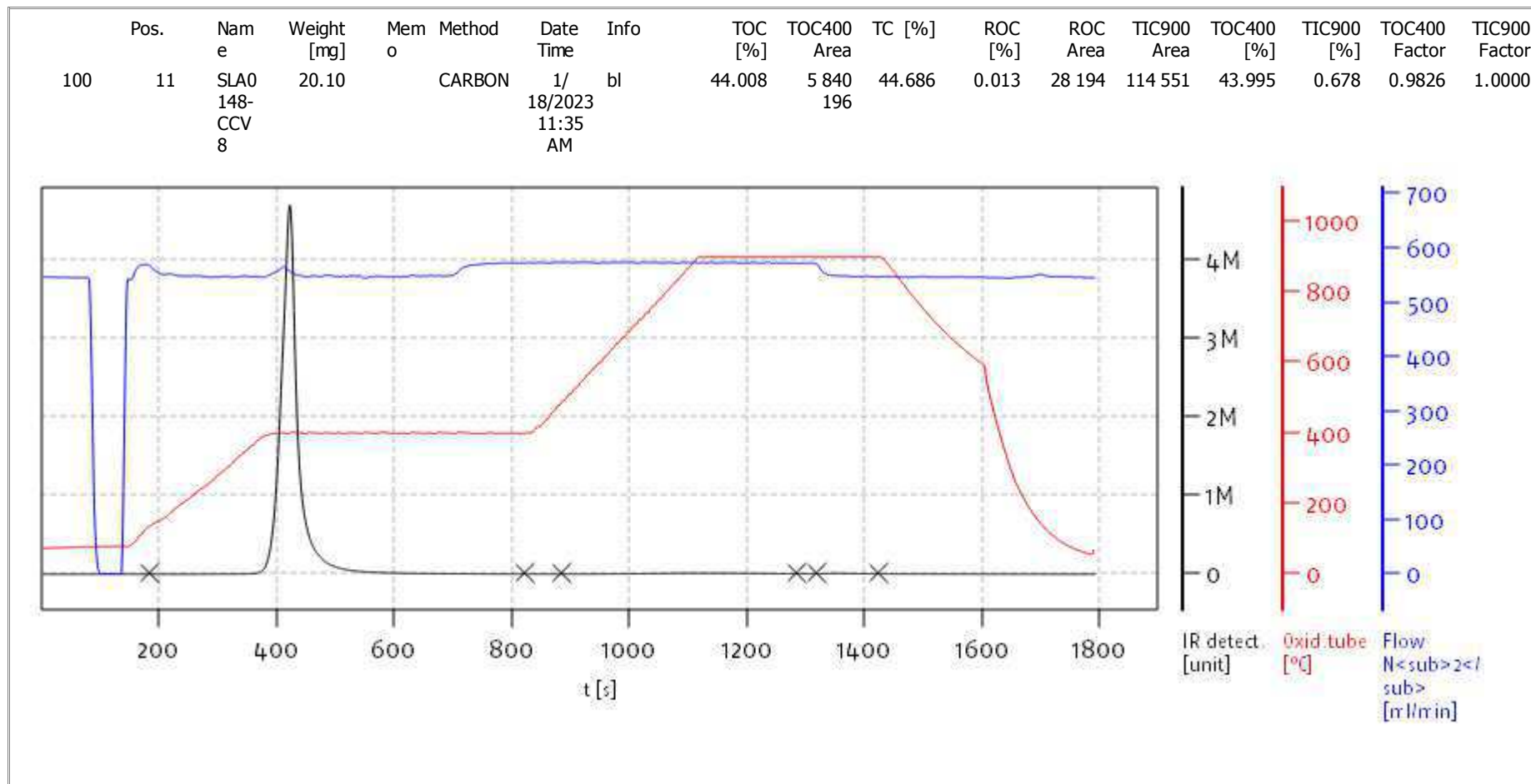
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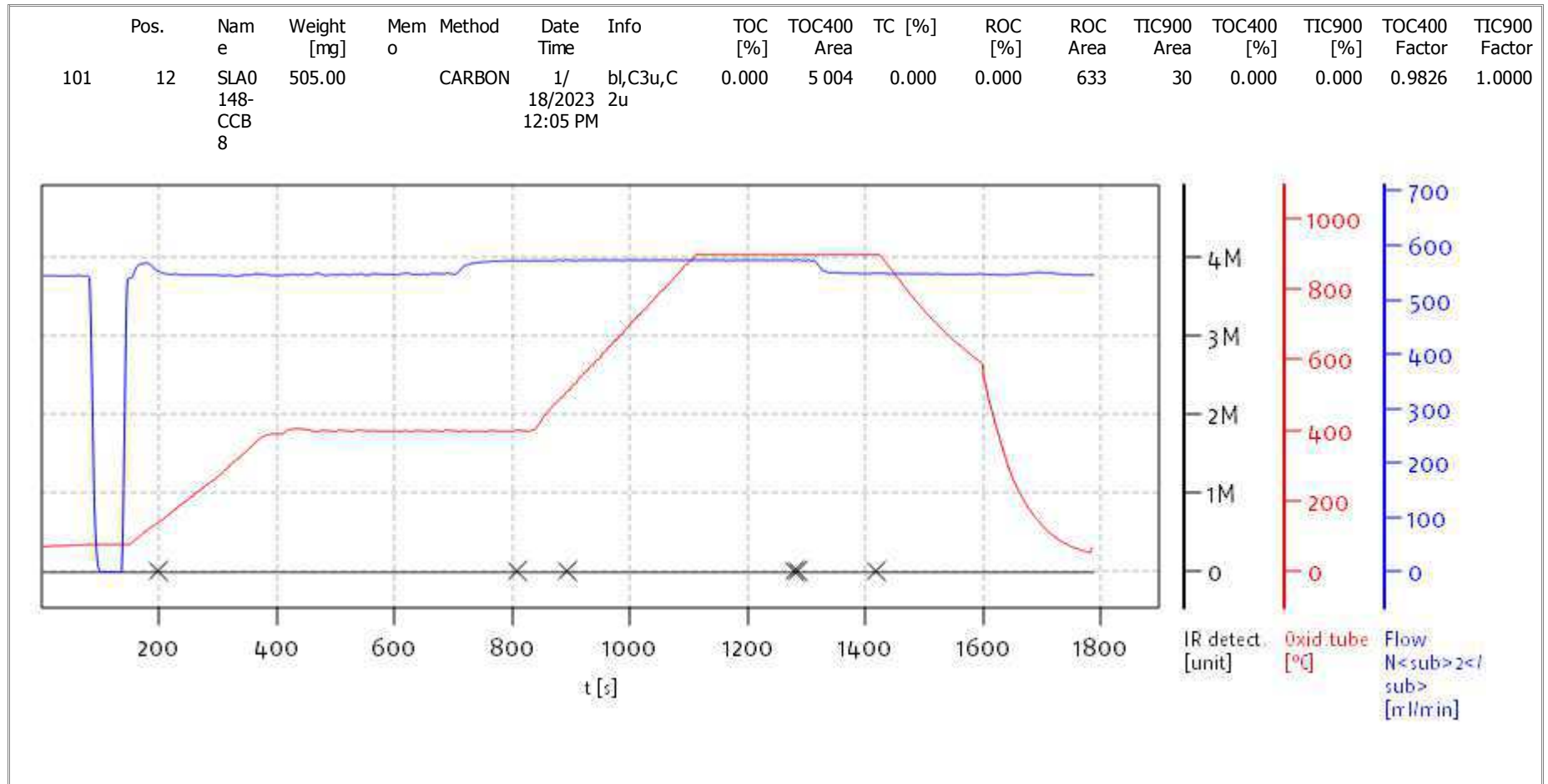
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 Analyst: DOE



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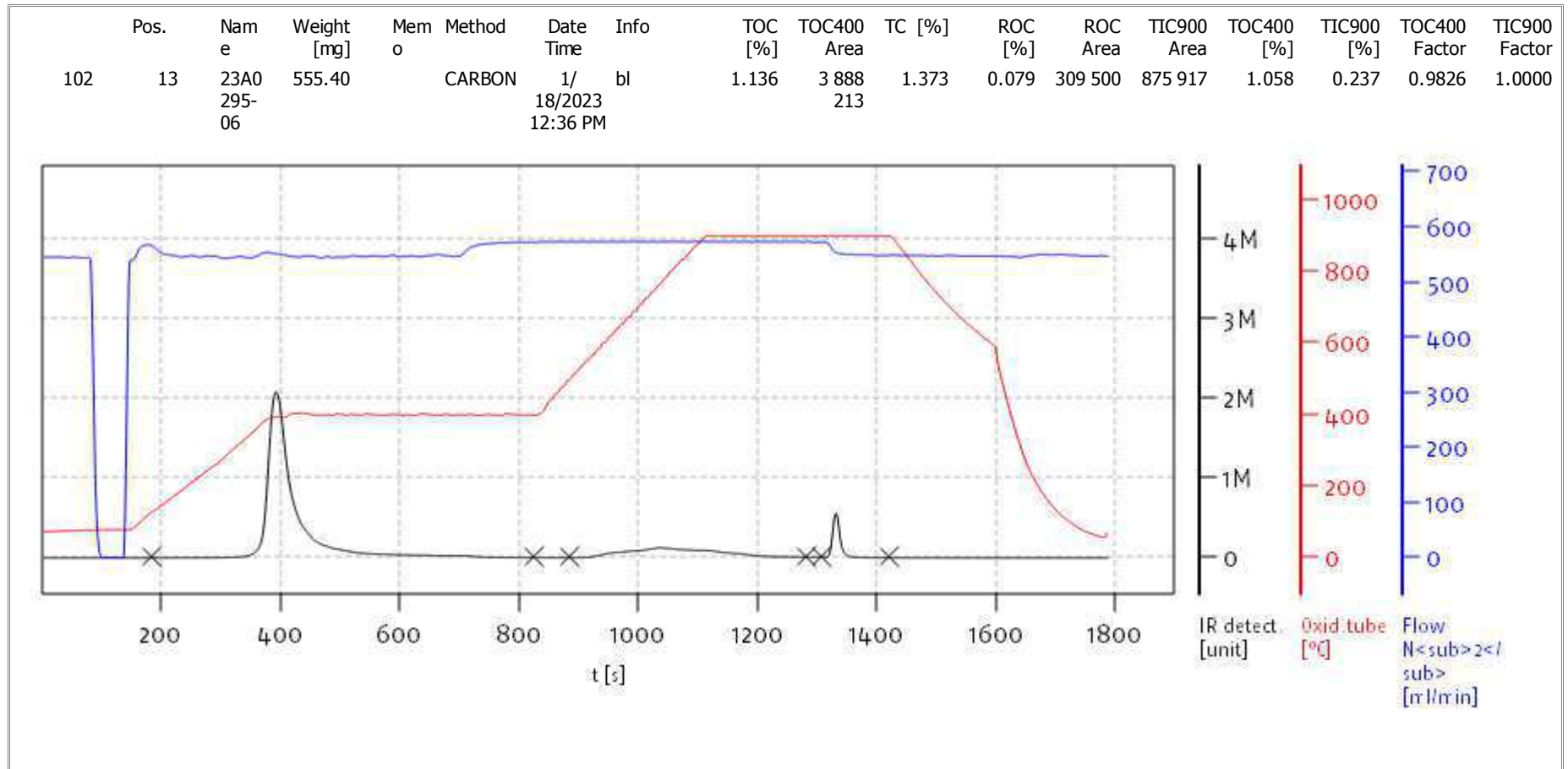
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Date: Wed Jan 18 13:37:19 2023

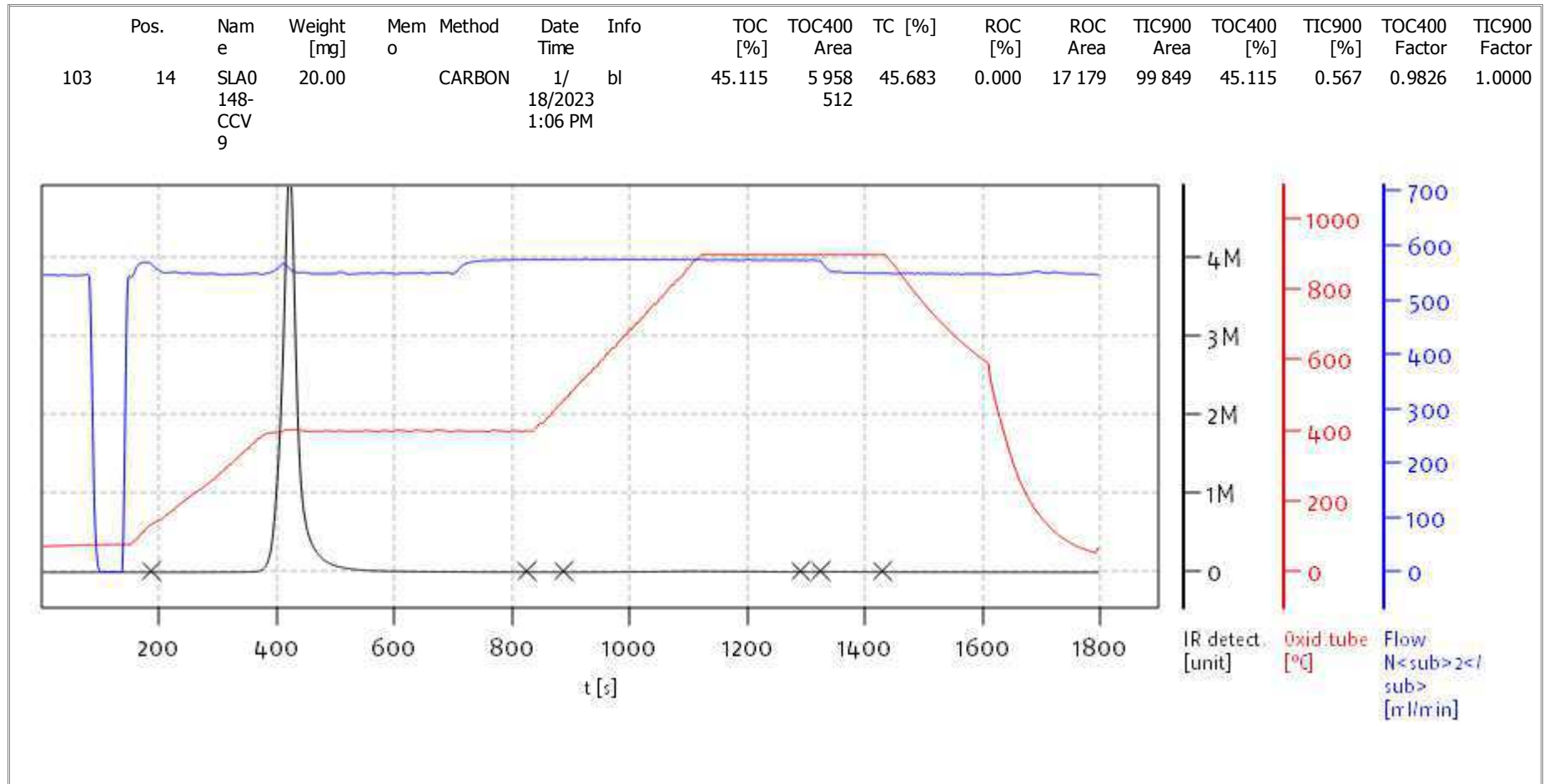


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**Soli TOC Cube, Carbon**  
**Balance: BAL3**  
**Analyst: DOE**



Name:

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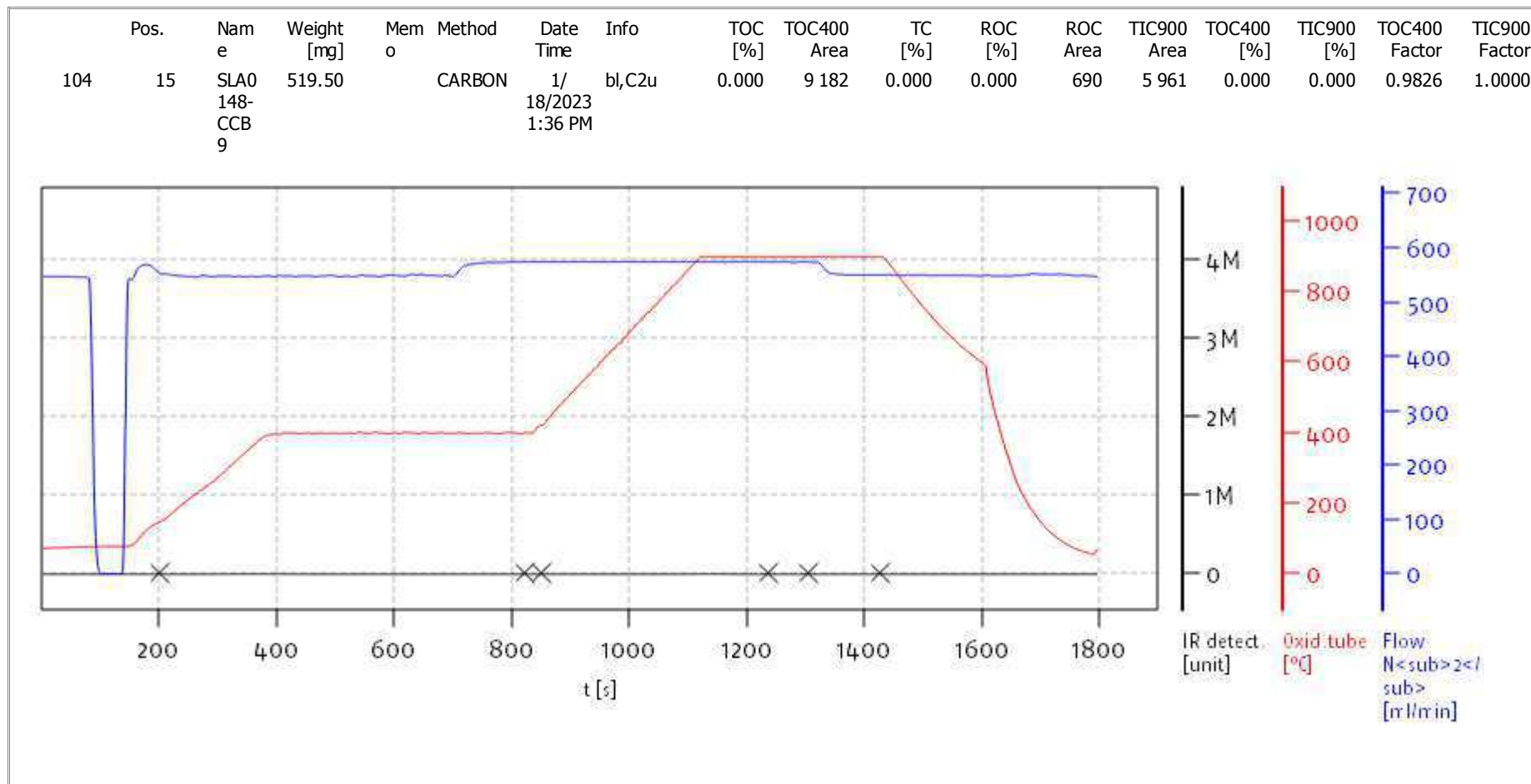
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solITOC V2.0.2 (31015f9) 2018-11-19  
 Serial No: 0300.181017  
 Mode CCC



## INITIAL CALIBRATION DATA

### EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: FD00070

Instrument: TOC Cube

Calibration Date: 04/26/2022 11:29

| Compound               | Level 01  |         | Level 02 |         | Level 03 |         | Level 04 |         | Level 05 |         | Level 06 |         |
|------------------------|-----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|
|                        | Conc      | RF      | Conc     | RF      | Conc     | RF      | Conc     | RF      | Conc     | RF      | Conc     | RF      |
| Total Organic Carbon   | 0.0080973 | 1449743 | 0.014695 | 1300238 | 0.021293 | 1292913 | 0.02939  | 1293535 | 0.044385 | 2094063 | 0.05878  | 1400085 |
| Total Carbon           | 0.0080973 | 1449743 | 0.014695 | 1300238 | 0.021293 | 1292913 | 0.02939  | 1293535 | 0.044385 | 2094063 | 0.05878  | 1400085 |
| Total Inorganic Carbon | 0.0080973 | 1449743 | 0.014695 | 1300238 | 0.021293 | 1292913 | 0.02939  | 1293535 | 0.044385 | 2094063 | 0.05878  | 1400085 |
| % Soot                 | 0.0080973 | 1449743 | 0.014695 | 1300238 | 0.021293 | 1292913 | 0.02939  | 1293535 | 0.044385 | 2094063 | 0.05878  | 1400085 |



### INITIAL CALIBRATION DATA

#### EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: FD00070

Instrument: TOC Cube

Calibration Date: 04/26/2022 11:29

| Compound               | Level 07 |         | Level 08 |         | Level 09 |         | Level 10 |         | Level 11 |         | Level 12 |         |
|------------------------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|
|                        | Conc     | RF      | Conc     | RF      | Conc     | RF      | Conc     | RF      | Conc     | RF      | Conc     | RF      |
| Total Organic Carbon   | 0.074075 | 1370638 | 0.08937  | 1351930 | 0.12056  | 2158544 | 0.14995  | 1559046 | 0.24     | 1346463 | 0.288    | 1430135 |
| Total Carbon           | 0.074075 | 1370638 | 0.08937  | 1351930 | 0.12056  | 2158544 | 0.14995  | 1559046 | 0.24     | 1346463 | 0.288    | 1430135 |
| Total Inorganic Carbon | 0.074075 | 1370638 | 0.08937  | 1351930 | 0.12056  | 2158544 | 0.14995  | 1559046 | 0.24     | 1346463 | 0.288    | 1430135 |
| % Soot                 | 0.074075 | 1370638 | 0.08937  | 1351930 | 0.12056  | 2158544 | 0.14995  | 1559046 | 0.24     | 1346463 | 0.288    | 1430135 |



### INITIAL CALIBRATION DATA

#### EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: FD00070

Instrument: TOC Cube

Calibration Date: 04/26/2022 11:29

| Compound               | Level 13 |         | Level 14 |         | Level 15 |         | Level 16 |         | Level 17 |         | Level 18 |         |
|------------------------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|
|                        | Conc     | RF      | Conc     | RF      | Conc     | RF      | Conc     | RF      | Conc     | RF      | Conc     | RF      |
| Total Organic Carbon   | 0.414    | 1337053 | 0.606    | 1385937 | 0.894    | 1382774 | 1.188    | 1379790 | 1.5      | 1375927 | 1.818    | 1372882 |
| Total Carbon           | 0.414    | 1337053 | 0.606    | 1385937 | 0.894    | 1382774 | 1.188    | 1379790 | 1.5      | 1375927 | 1.818    | 1372882 |
| Total Inorganic Carbon | 0.414    | 1337053 | 0.606    | 1385937 | 0.894    | 1382774 | 1.188    | 1379790 | 1.5      | 1375927 | 1.818    | 1372882 |
| % Soot                 | 0.414    | 1337053 | 0.606    | 1385937 | 0.894    | 1382774 | 1.188    | 1379790 | 1.5      | 1375927 | 1.818    | 1372882 |



## INITIAL CALIBRATION DATA

### EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: FD00070

Instrument: TOC Cube

Calibration Date: 04/26/2022 11:29

| Compound               | Level 19 |         | Level 20 |         | Level 21 |         | Level 22 |         | Level 23 |         | Level 24 |         |
|------------------------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|
|                        | Conc     | RF      | Conc     | RF      | Conc     | RF      | Conc     | RF      | Conc     | RF      | Conc     | RF      |
| Total Organic Carbon   | 2.49     | 1398606 | 2.982    | 1376871 | 4.188    | 1256057 | 4.818    | 1279542 | 5.406    | 1283358 | 7.2      | 1301408 |
| Total Carbon           | 2.49     | 1398606 | 2.982    | 1376871 | 4.188    | 1256057 | 4.818    | 1279542 | 5.406    | 1283358 | 7.2      | 1301408 |
| Total Inorganic Carbon | 2.49     | 1398606 | 2.982    | 1376871 | 4.188    | 1256057 | 4.818    | 1279542 | 5.406    | 1283358 | 7.2      | 1301408 |
| % Soot                 | 2.49     | 1398606 | 2.982    | 1376871 | 4.188    | 1256057 | 4.818    | 1279542 | 5.406    | 1283358 | 7.2      | 1301408 |



## INITIAL CALIBRATION DATA

### EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: FD00070

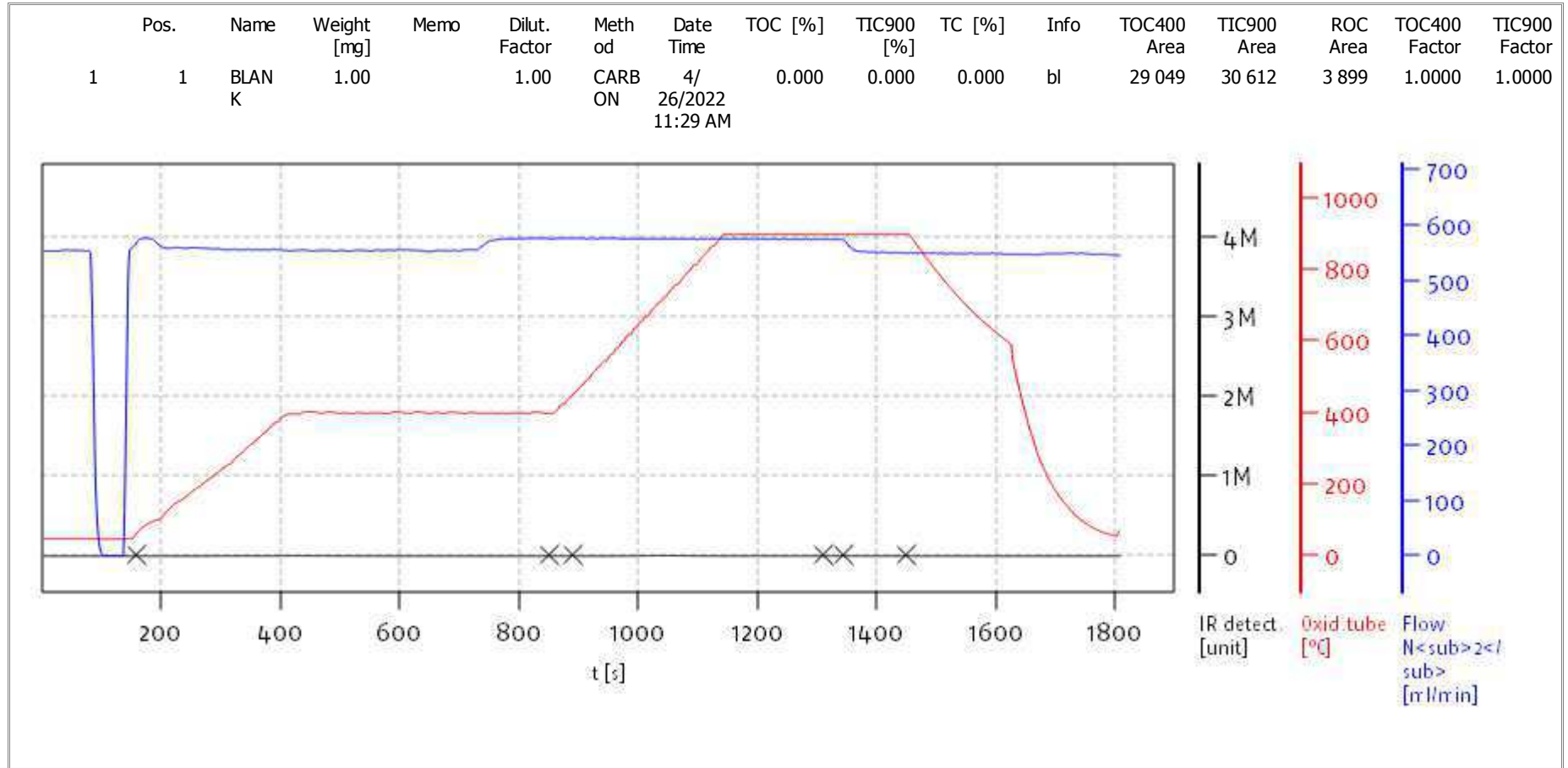
Instrument: TOC Cube

Calibration Date: 04/26/2022 11:29

| COMPOUND               | Mean RF | RF RSD | Linear COD | Quad COD | COD Limit | Q |
|------------------------|---------|--------|------------|----------|-----------|---|
| Total Organic Carbon   | 1424064 | 15.9   | 0.9988     |          |           |   |
| Total Carbon           | 1424064 | 15.9   | 0.9988     |          |           |   |
| Total Inorganic Carbon | 1424064 | 15.9   | 0.9988     |          |           |   |
| % Soot                 | 1424064 | 15.9   | 0.9988     |          |           |   |



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

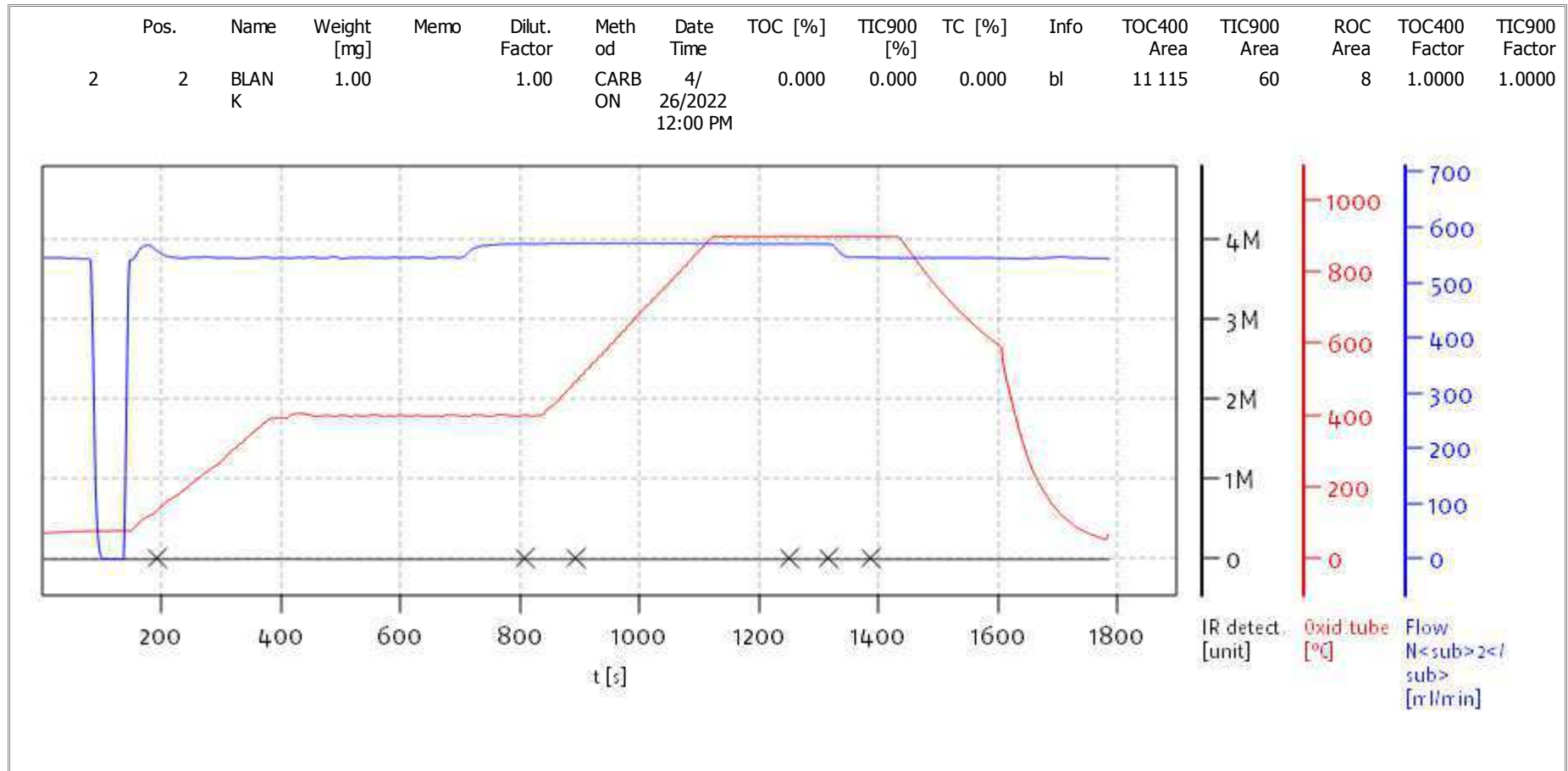
Date: Wed Apr 27 11:07:12 2022



solITOC V2.0.2 (31015f9) 2018-11-19  
Serial No: 0300.181017  
Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

Date: Wed Apr 27 11:07:12 2022

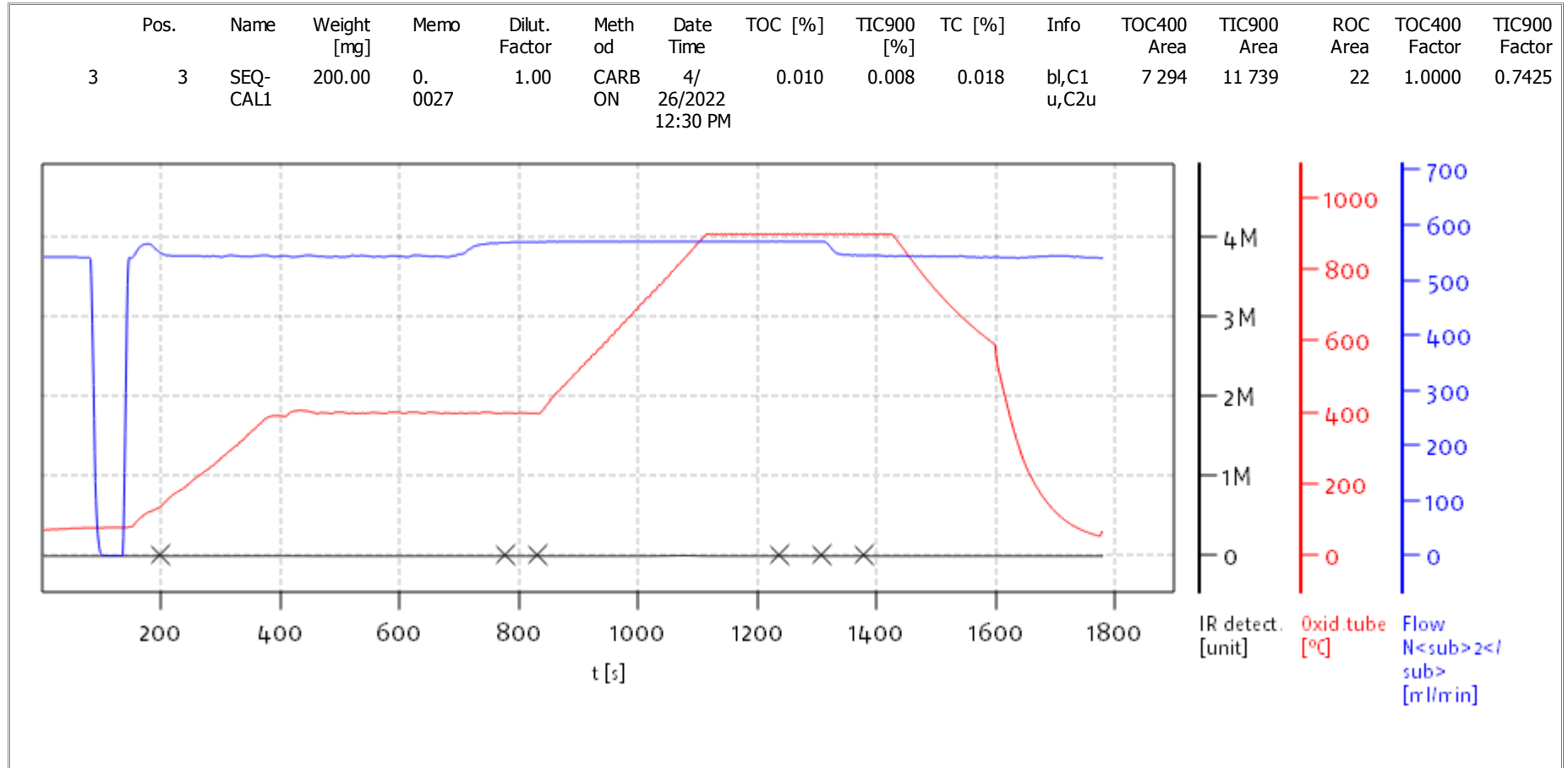


solITOC V2.0.2 (31015f9) 2018-11-19  
Serial No: 0300.181017  
Mode CCC





Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

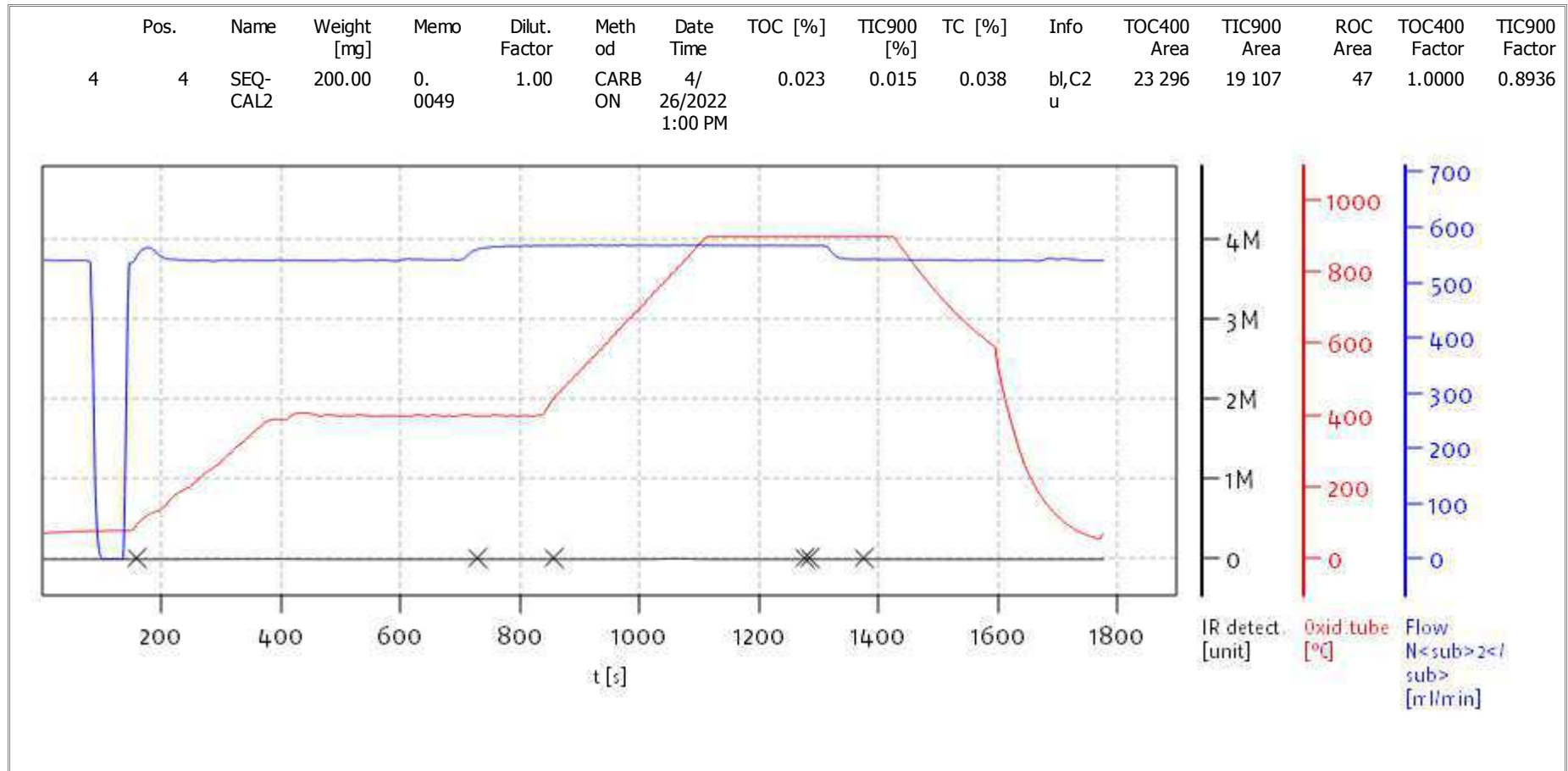
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solITOC V2.0.2 (31015f9) 2018-11-19  
Serial No: 0300.181017  
Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

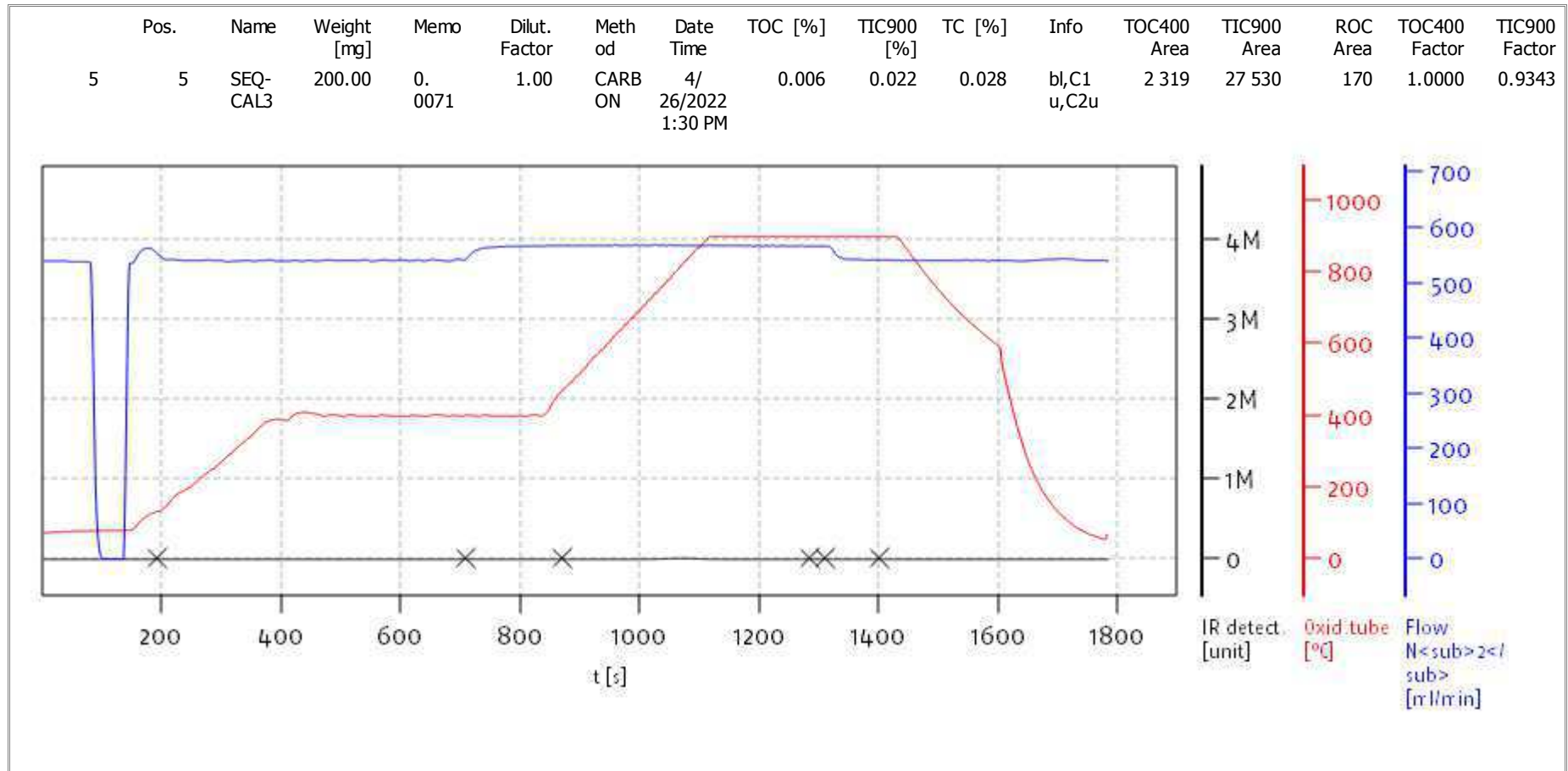
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solITOC V2.0.2 (31015f9) 2018-11-19  
Serial No: 0300.181017  
Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

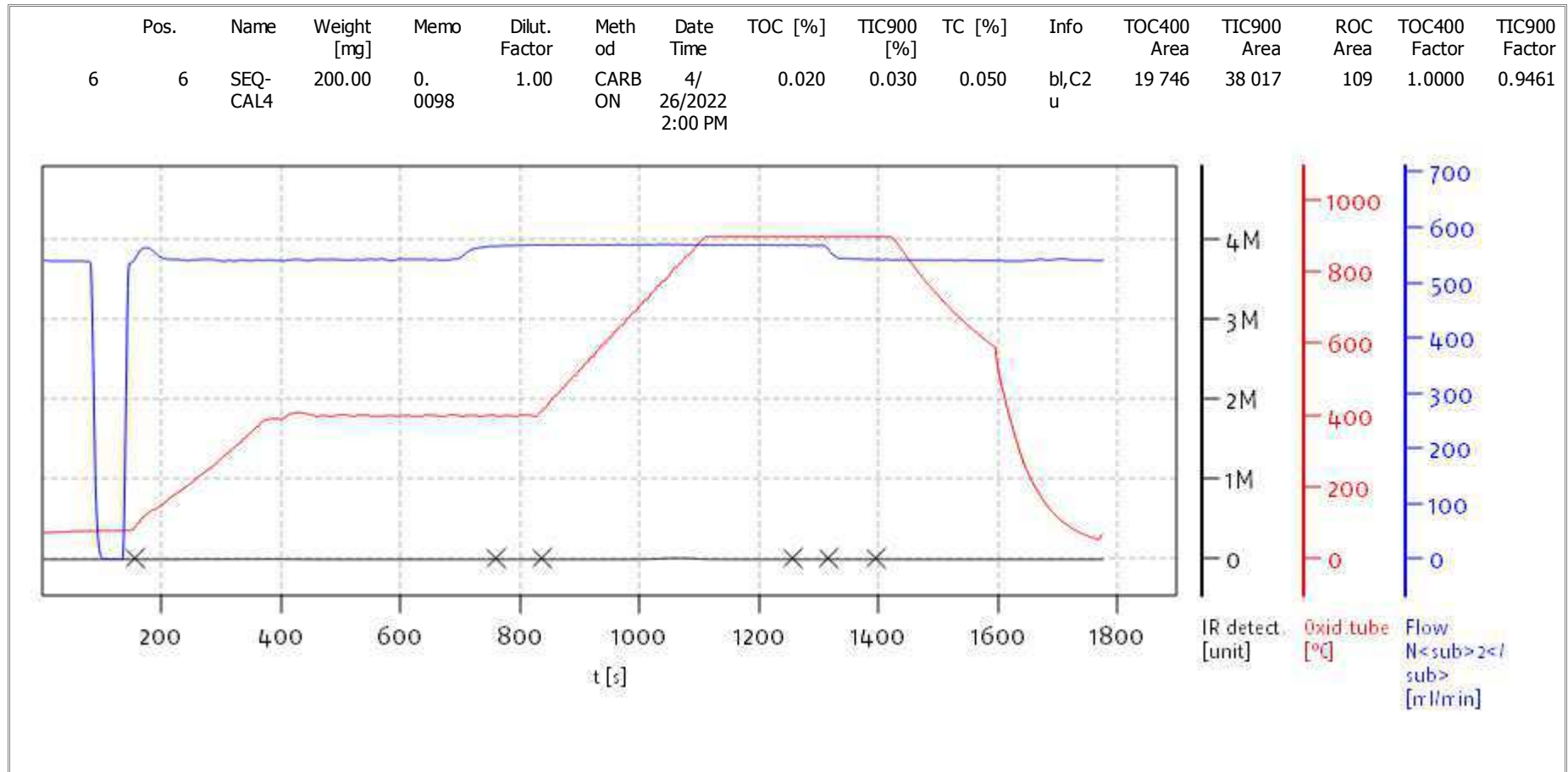
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solITOC V2.0.2 (31015f9) 2018-11-19  
Serial No: 0300.181017  
Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

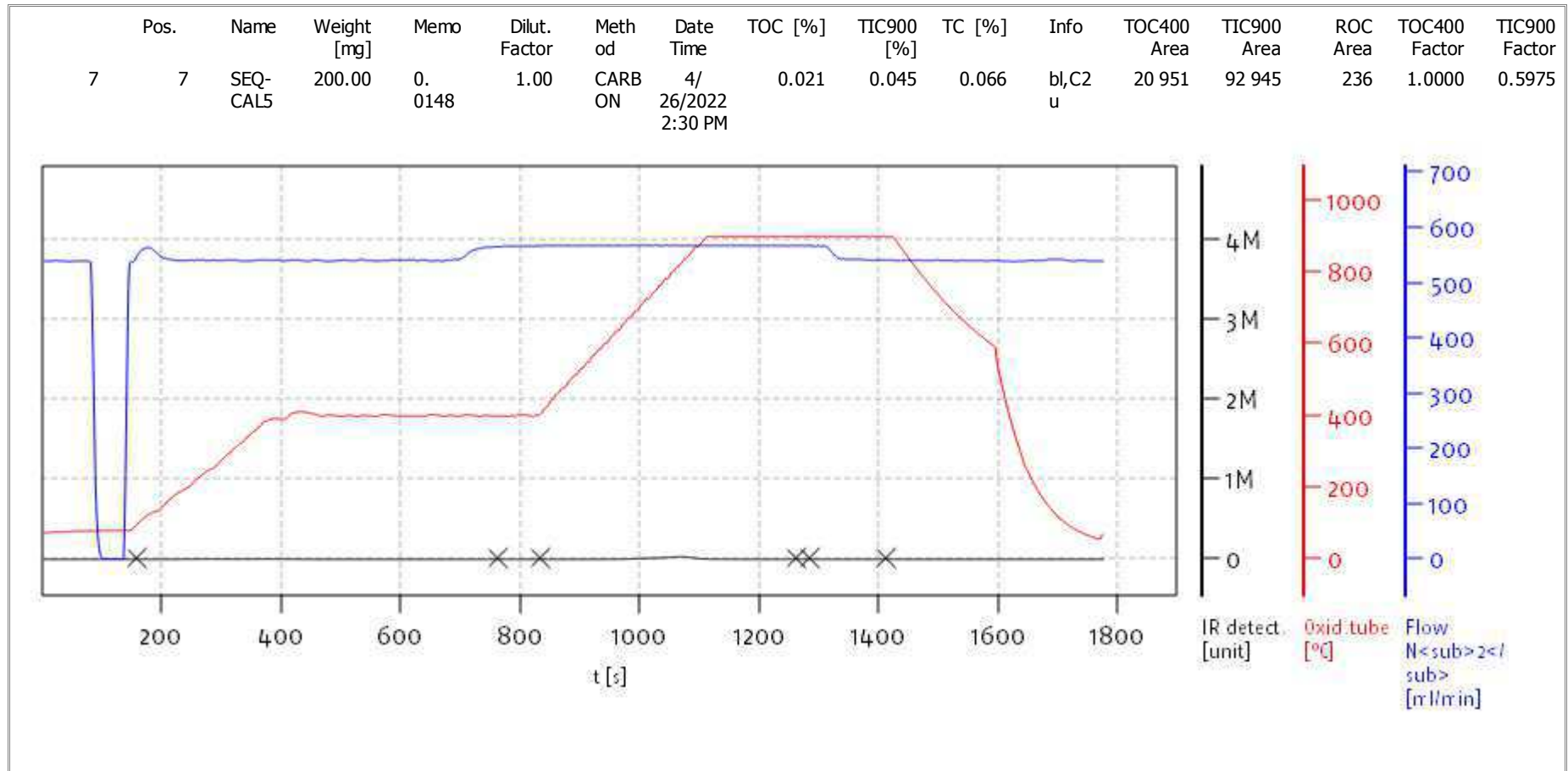
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solITOC V2.0.2 (31015f9) 2018-11-19  
Serial No: 0300.181017  
Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

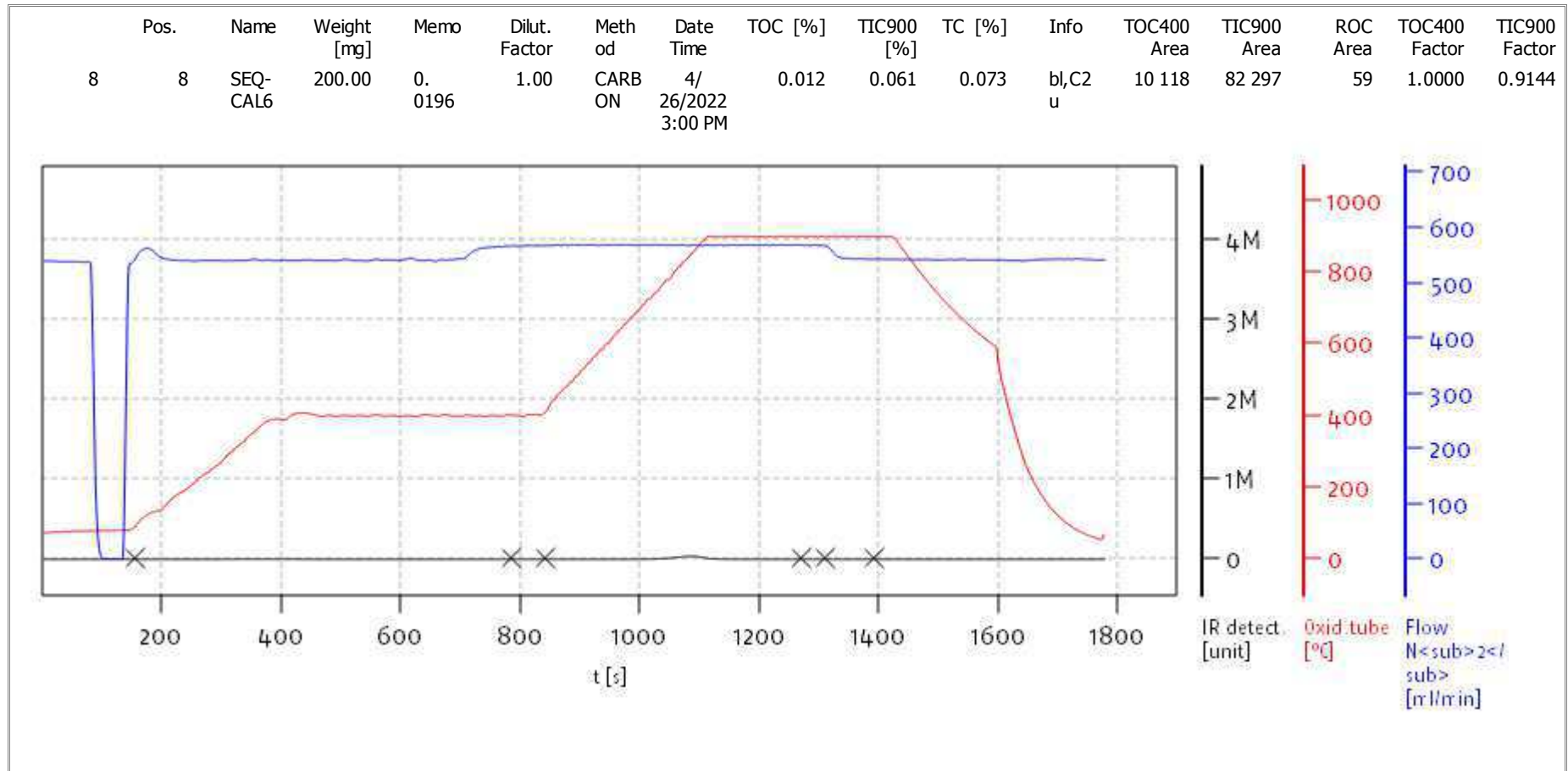
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solITOC V2.0.2 (31015f9) 2018-11-19  
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Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

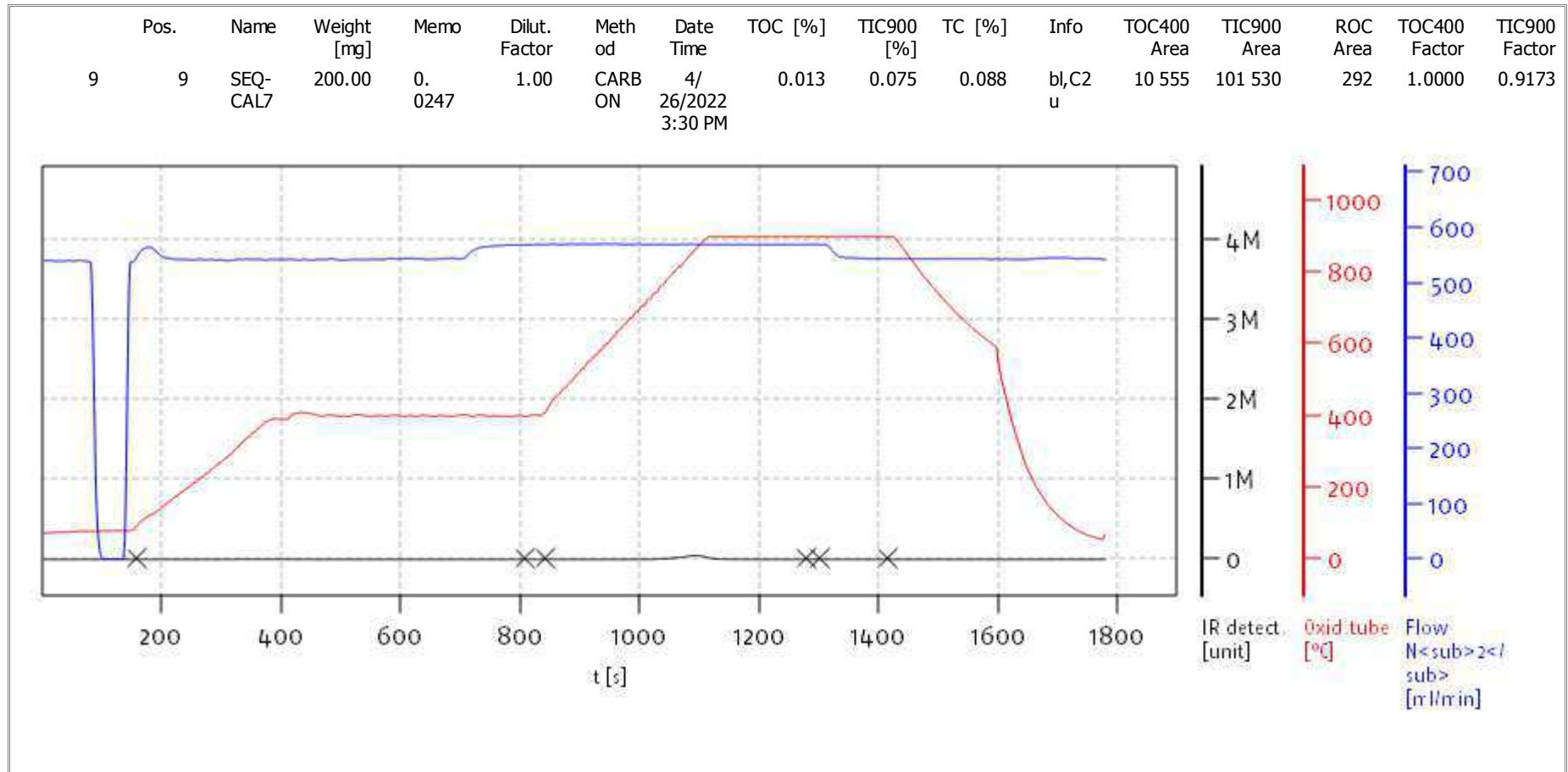
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Serial No: 0300.181017  
Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

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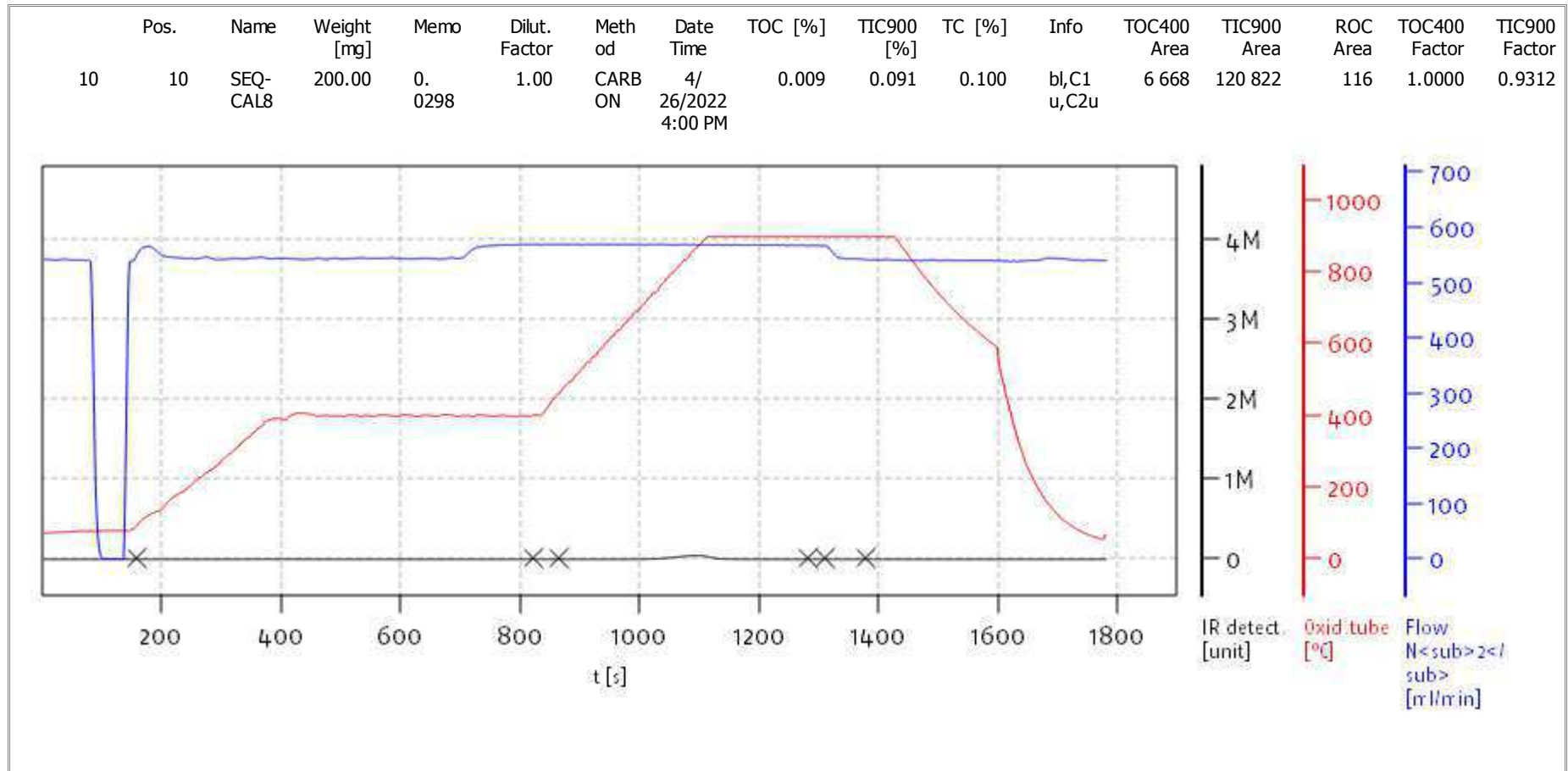


solITOC V2.0.2 (31015f9) 2018-11-19  
Serial No: 0300.181017  
Mode CCC





Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

Date: Wed Apr 27 11:07:12 2022

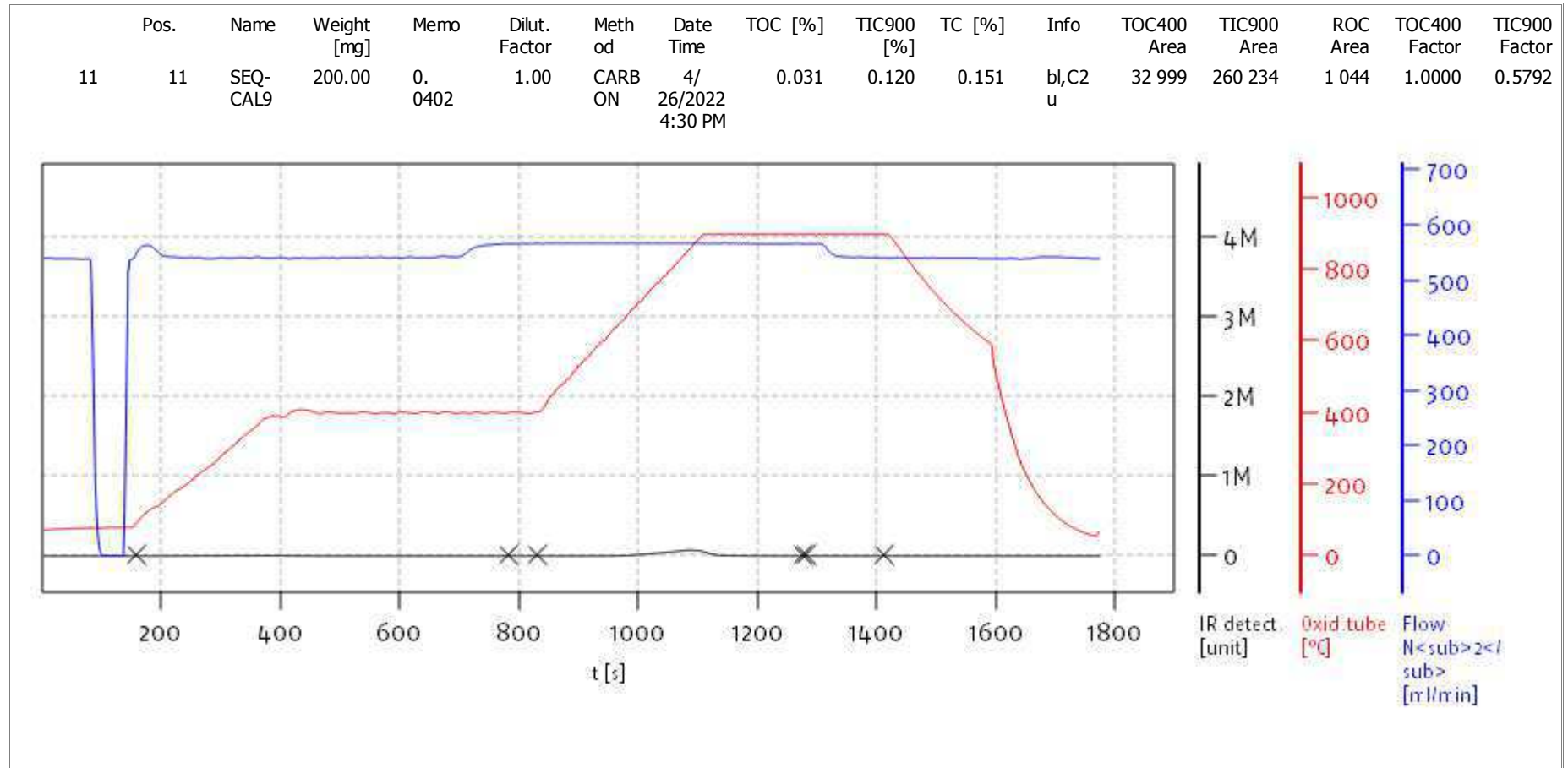


solITOC V2.0.2 (31015f9) 2018-11-19  
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Mode CCC





Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

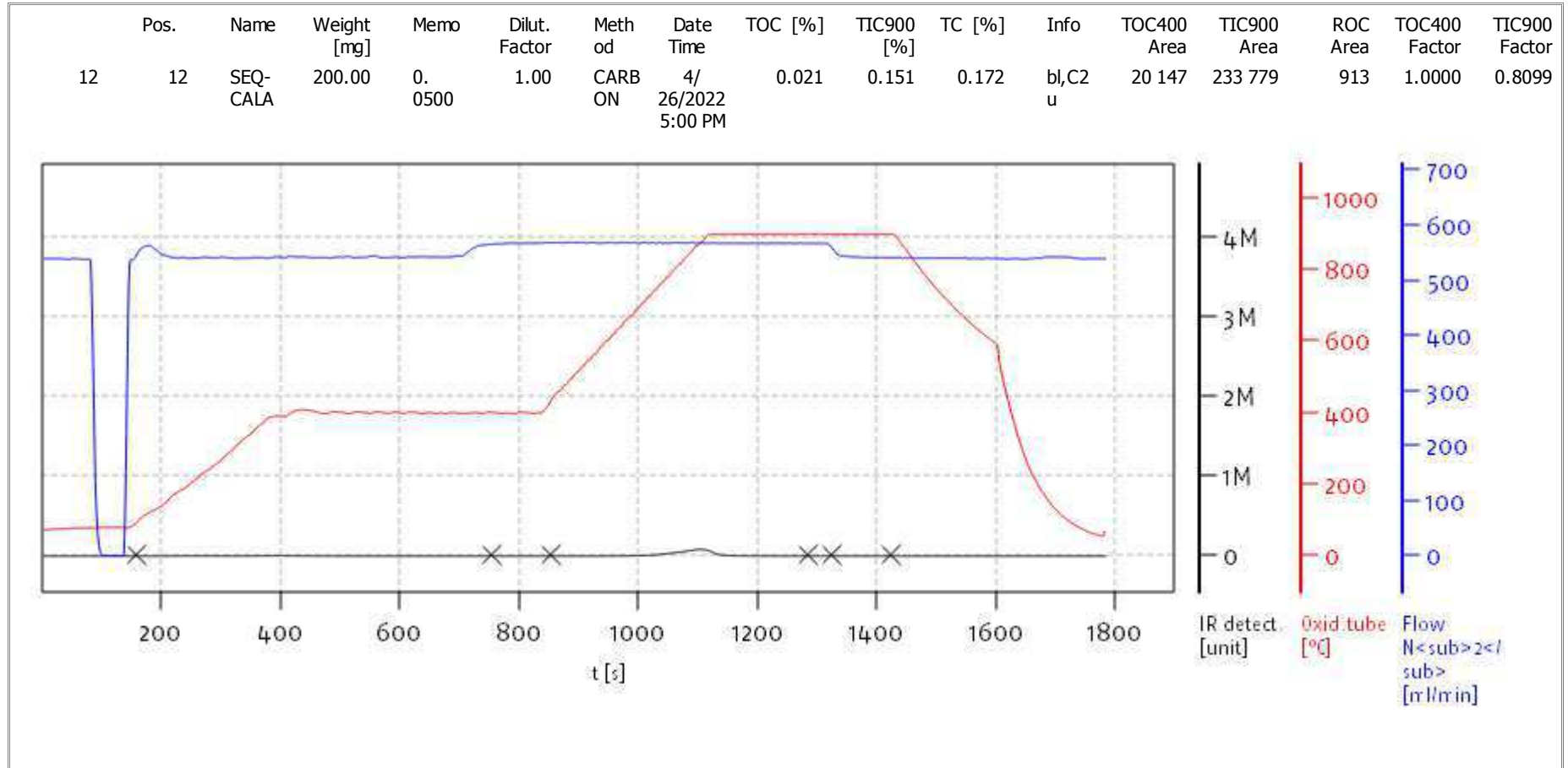
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solITOC V2.0.2 (31015f9) 2018-11-19  
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Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

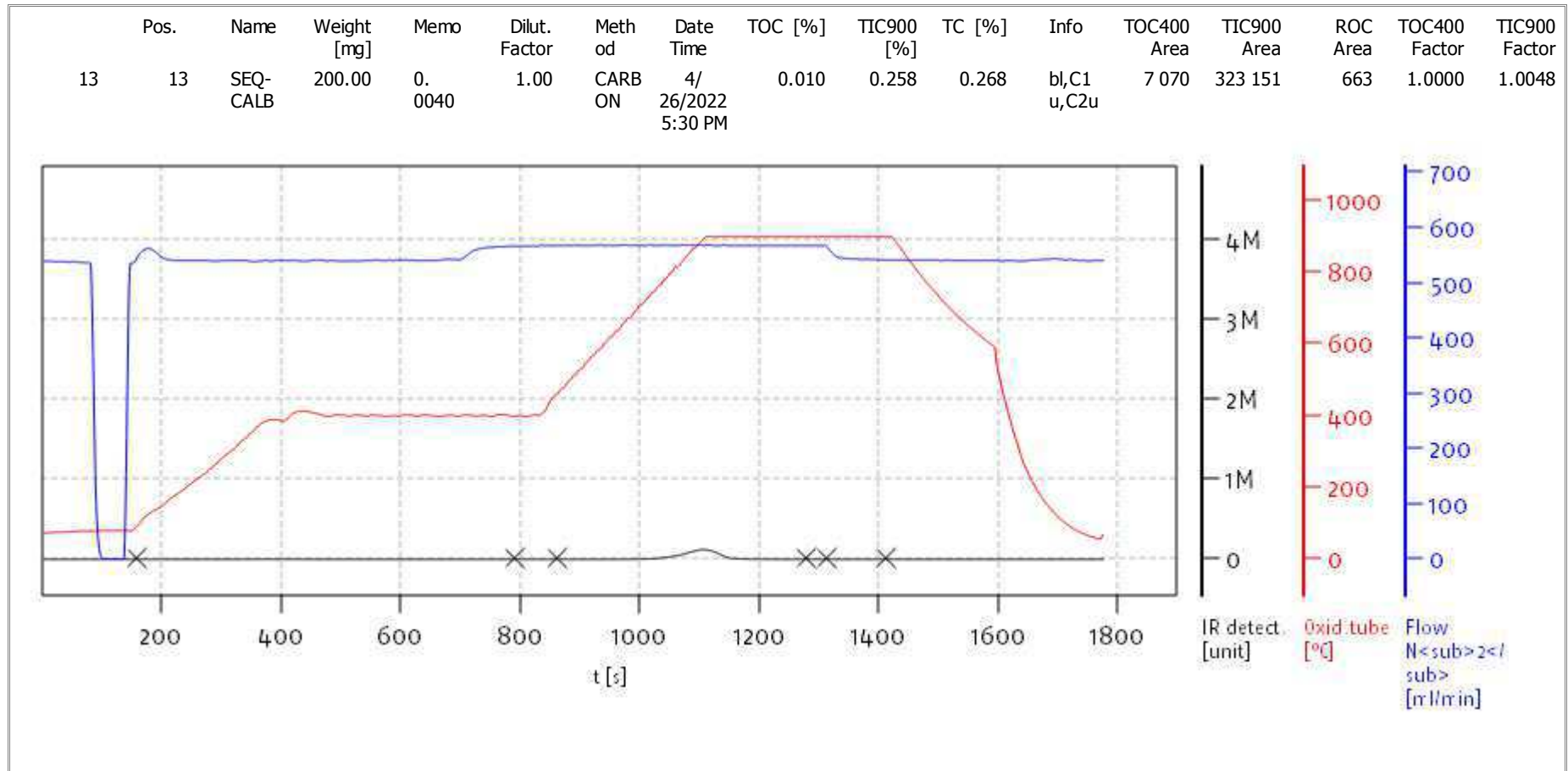
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Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

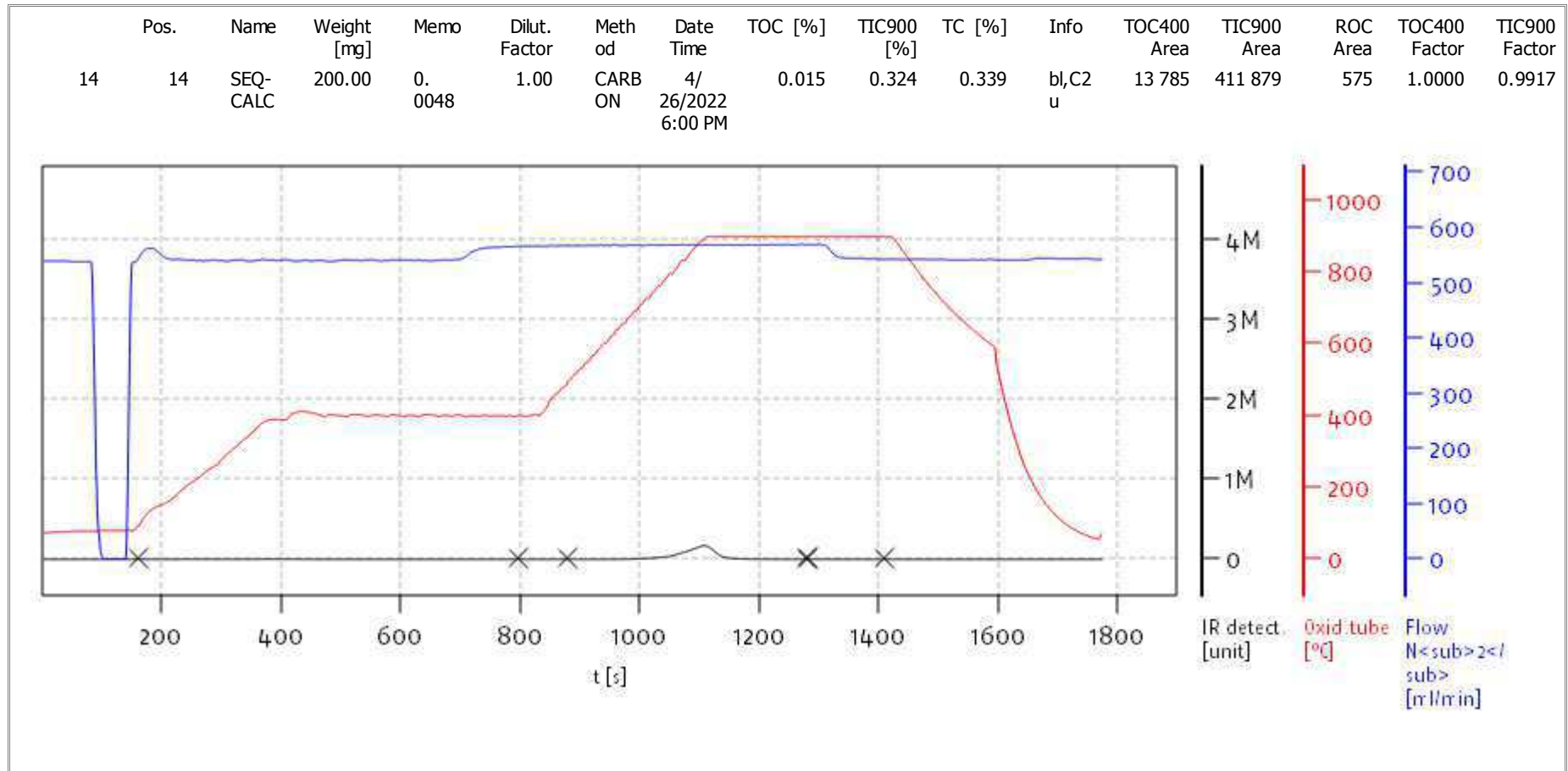
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solITOC V2.0.2 (31015f9) 2018-11-19  
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Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

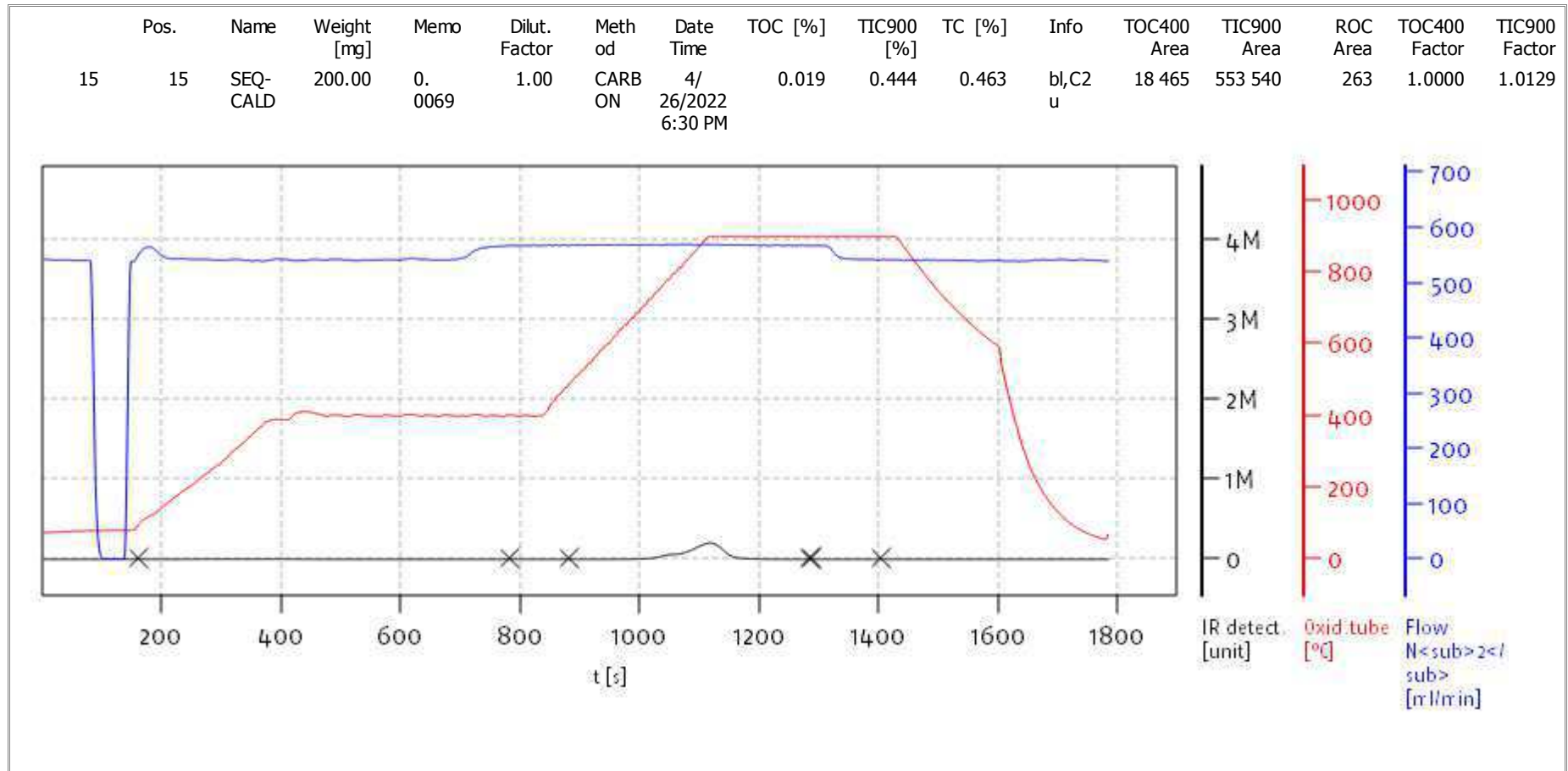
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Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

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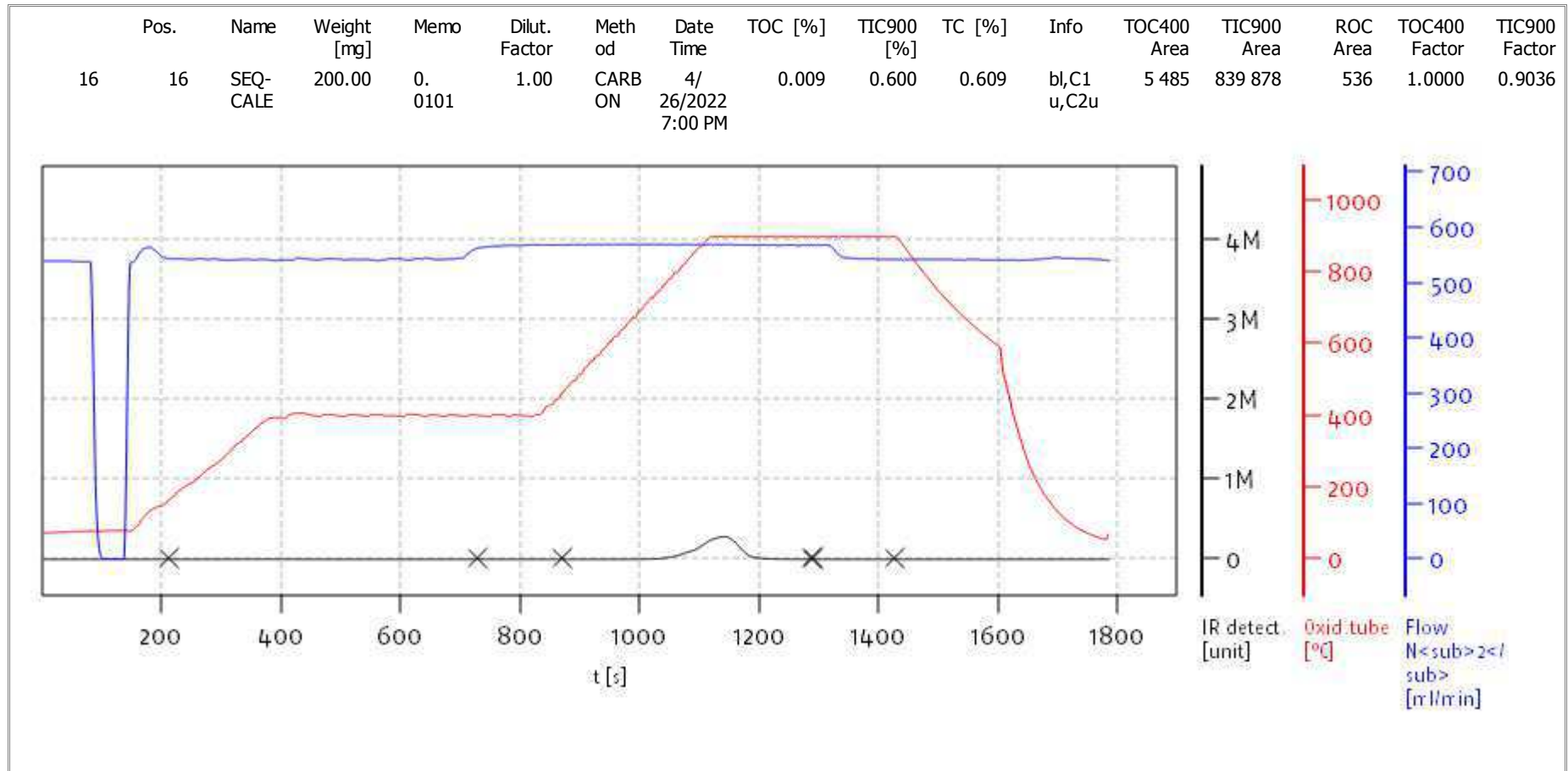
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Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

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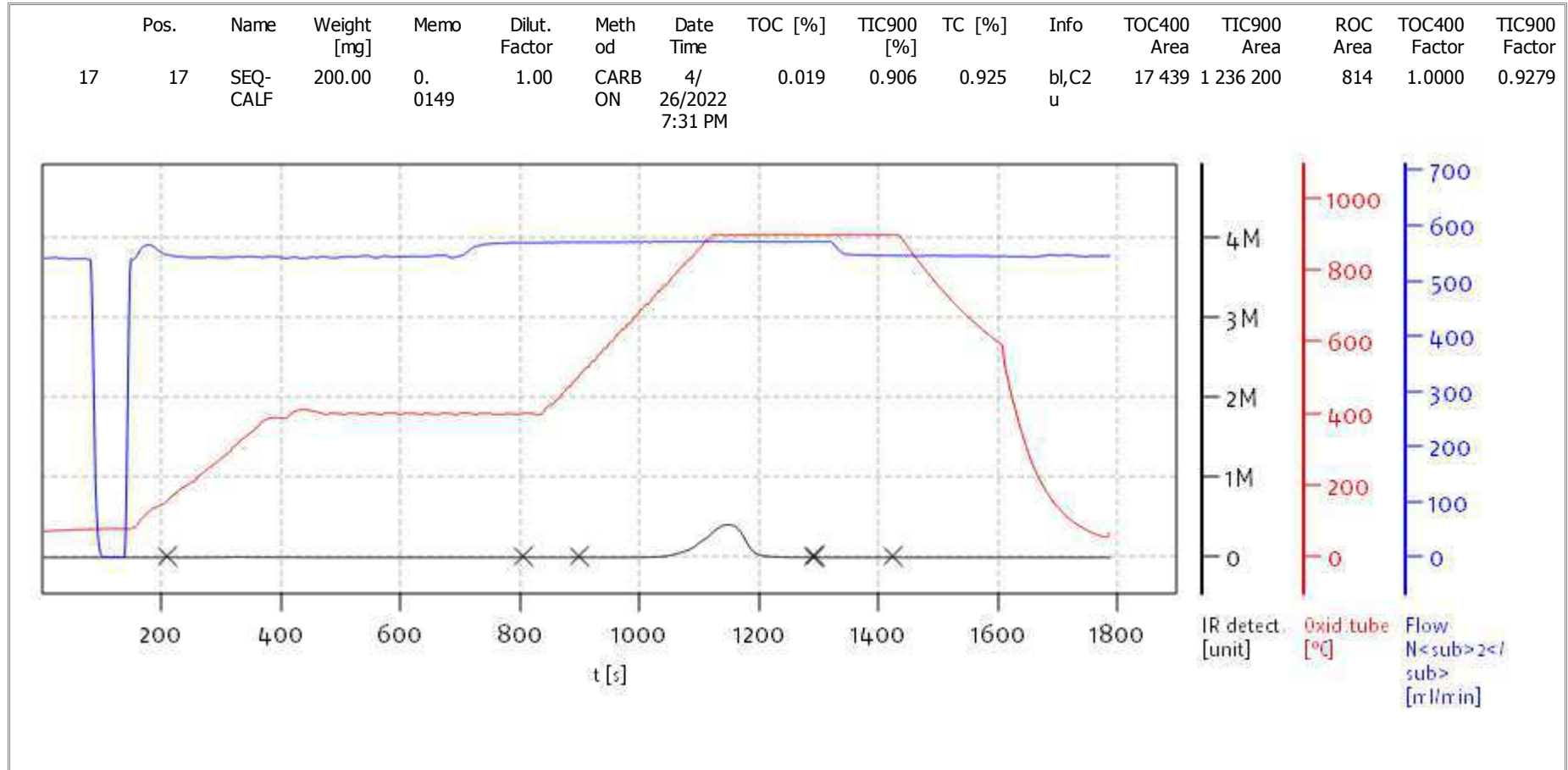


solITOC V2.0.2 (31015f9) 2018-11-19  
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Mode CCC





Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

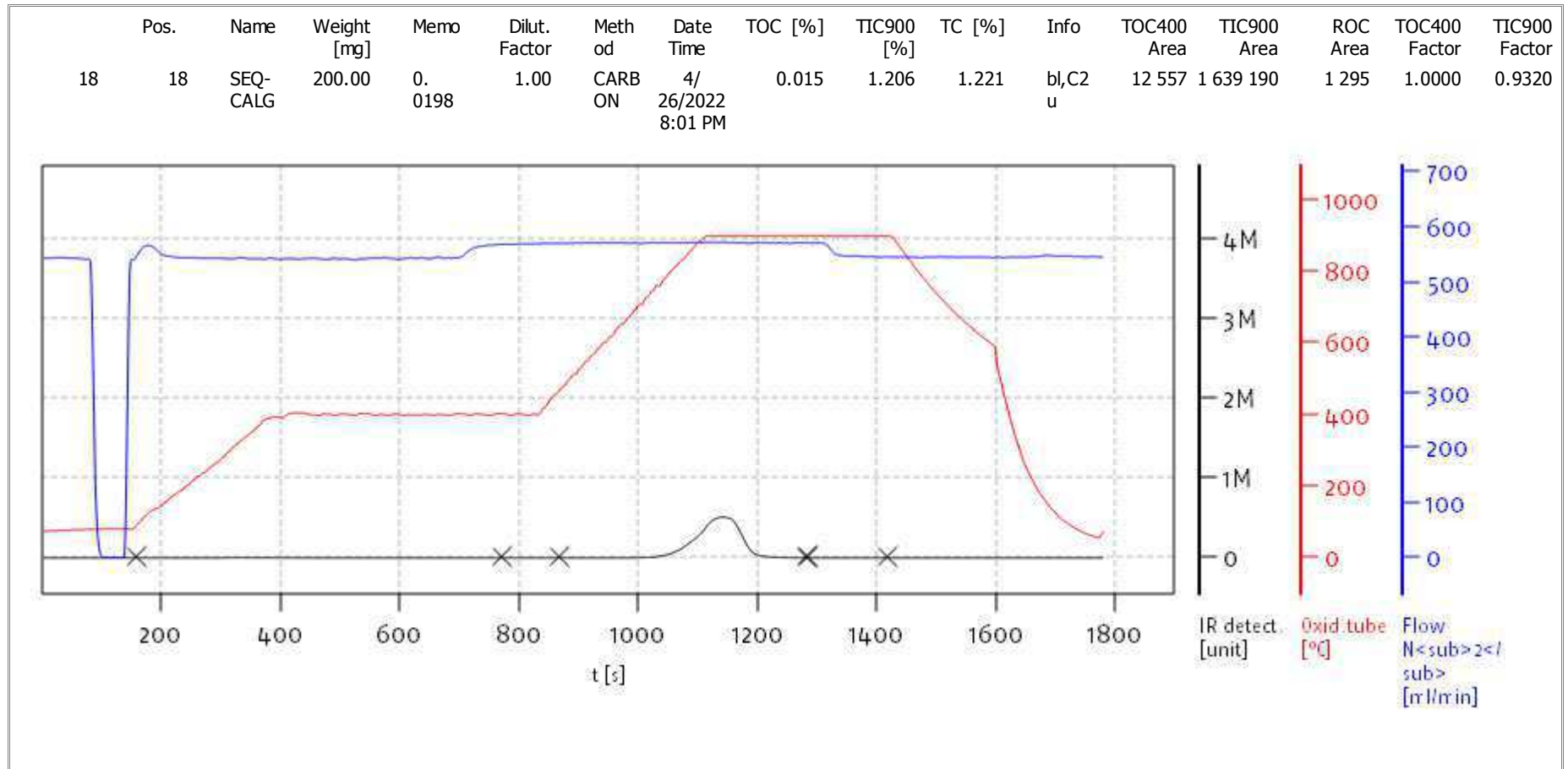
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Serial No: 0300.181017  
Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

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Date: Wed Apr 27 11:07:12 2022

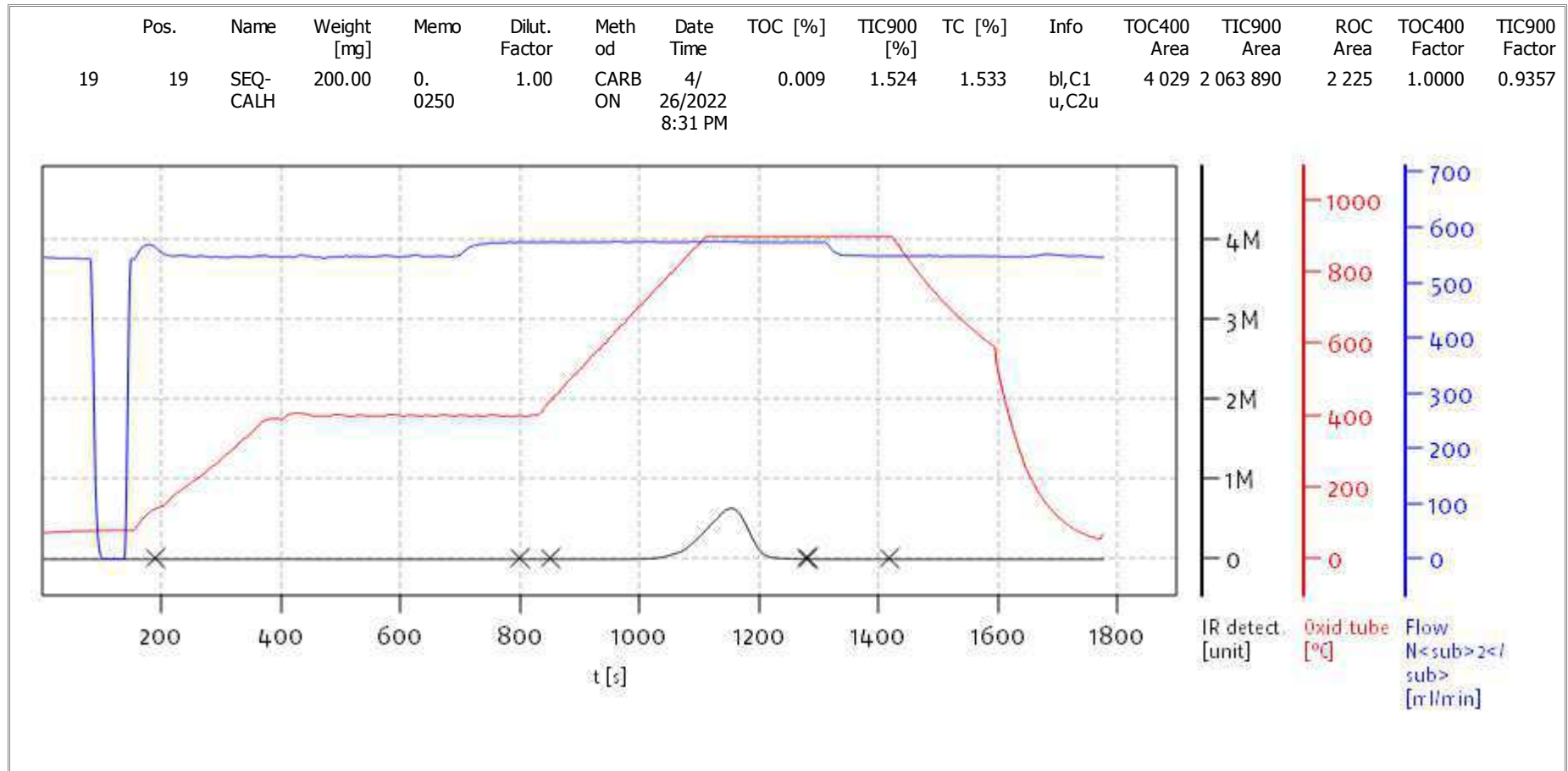


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Serial No: 0300.181017  
Mode CCC





Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



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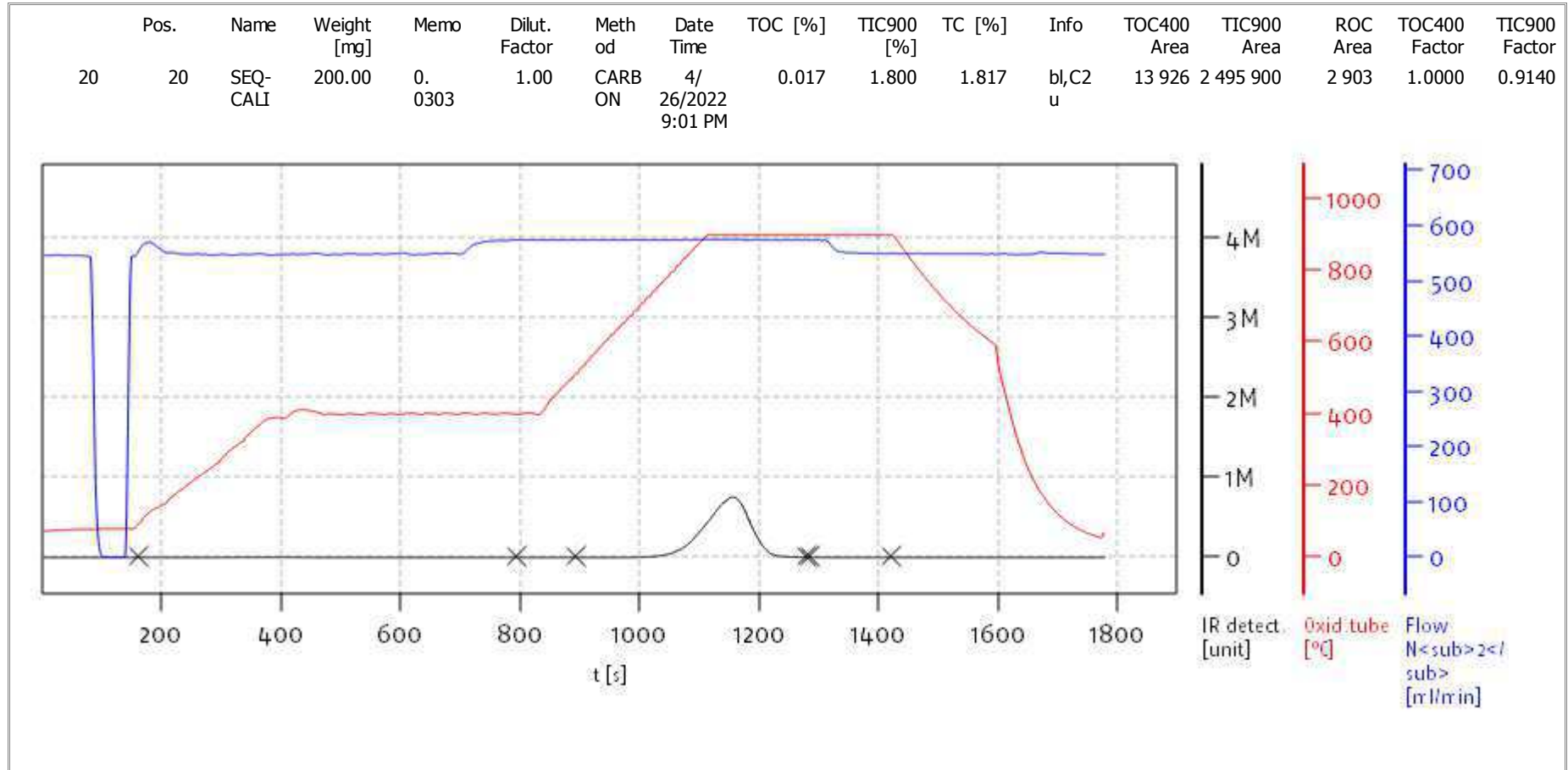
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Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



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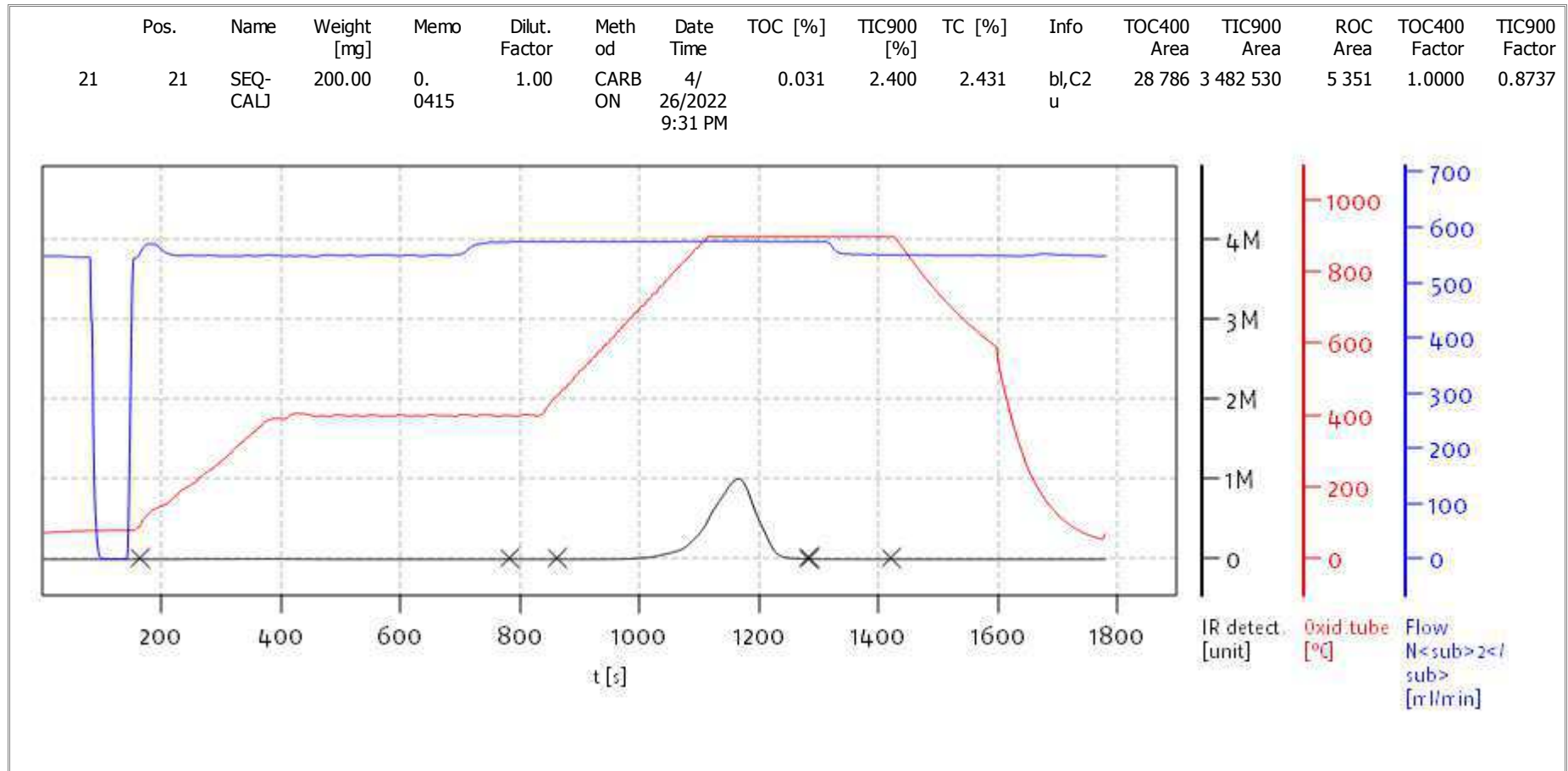
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Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

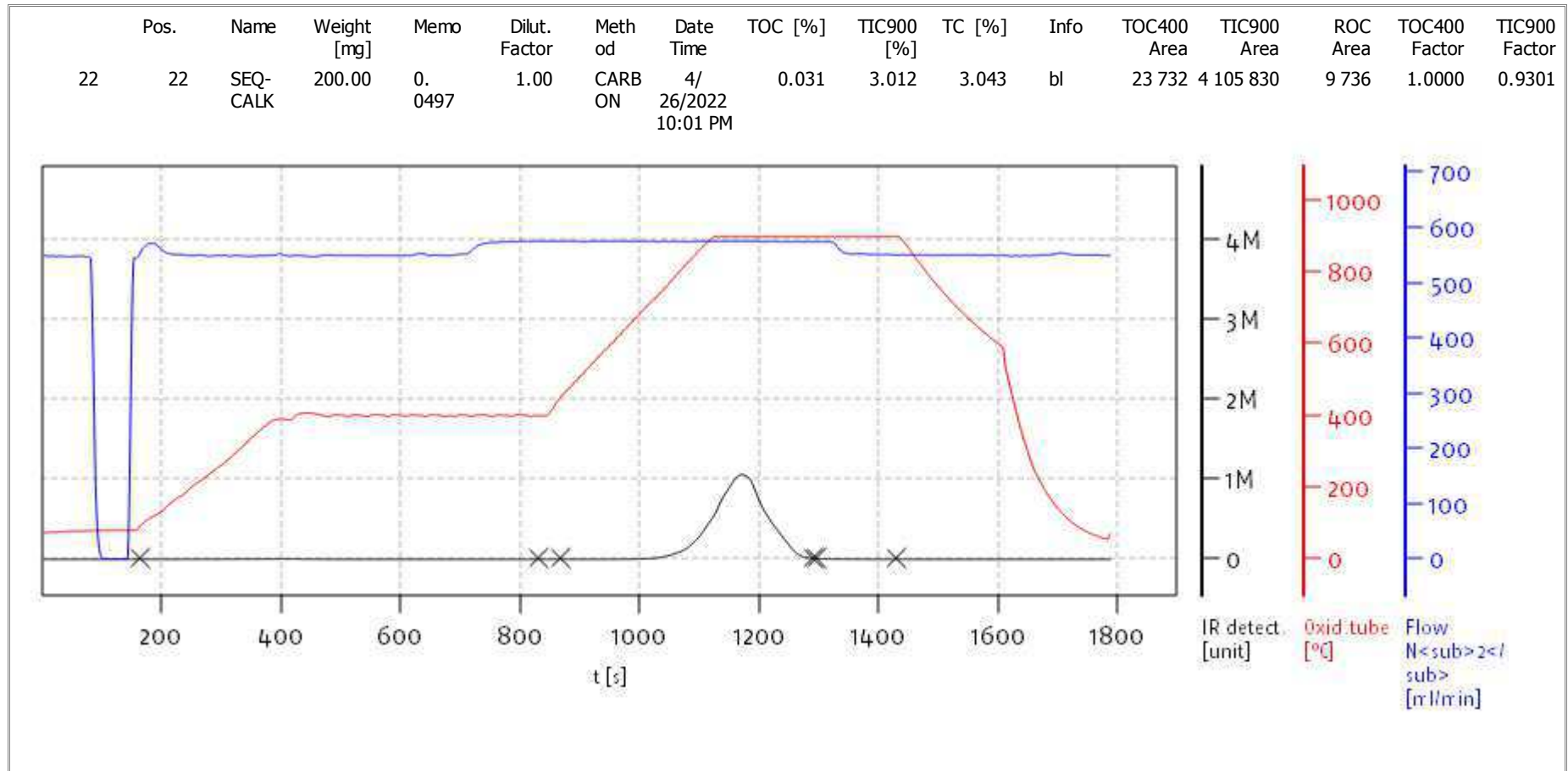
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solITOC V2.0.2 (31015f9) 2018-11-19  
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Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



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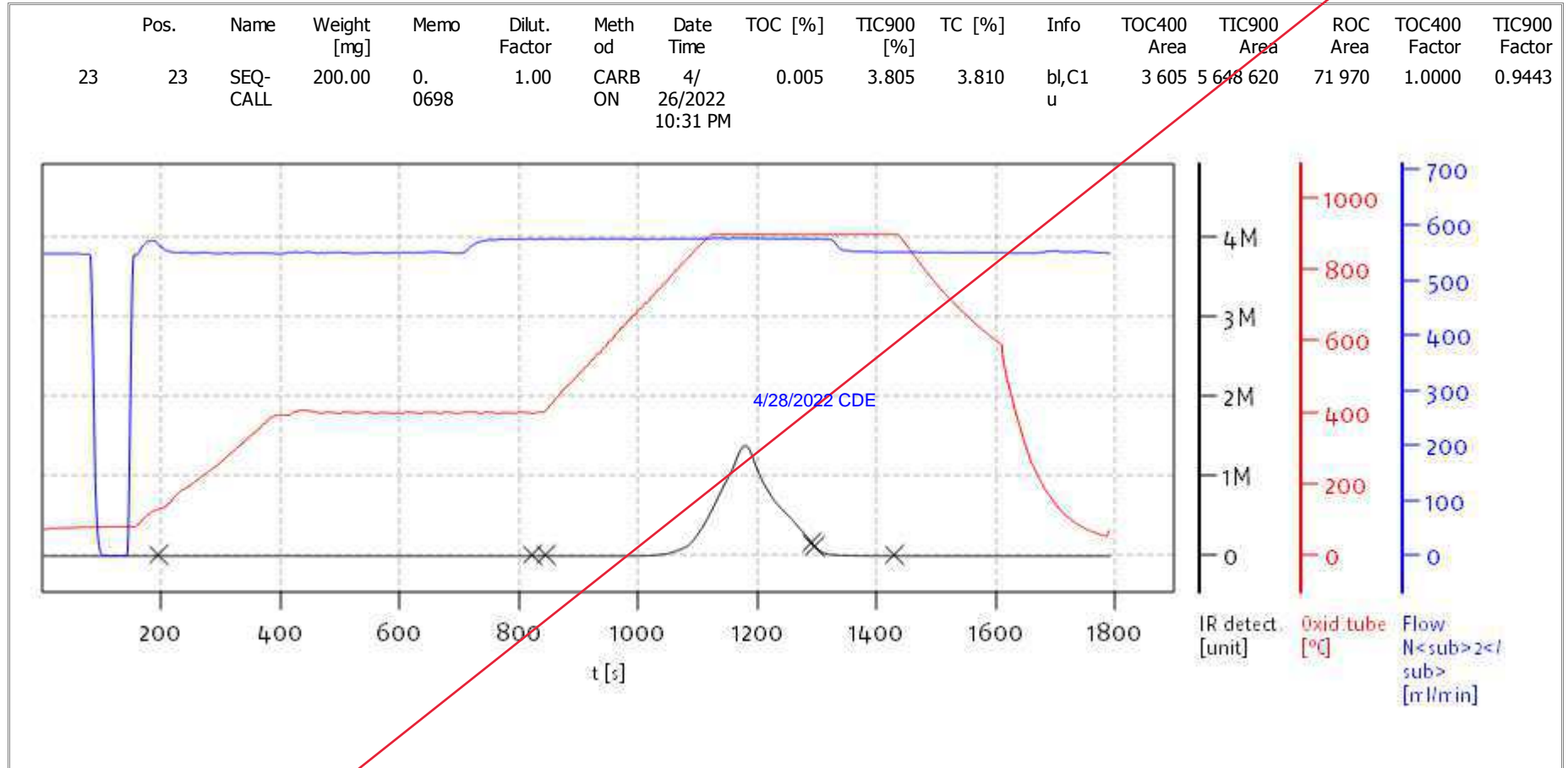
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solITOC V2.0.2 (31015f9) 2018-11-19  
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Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

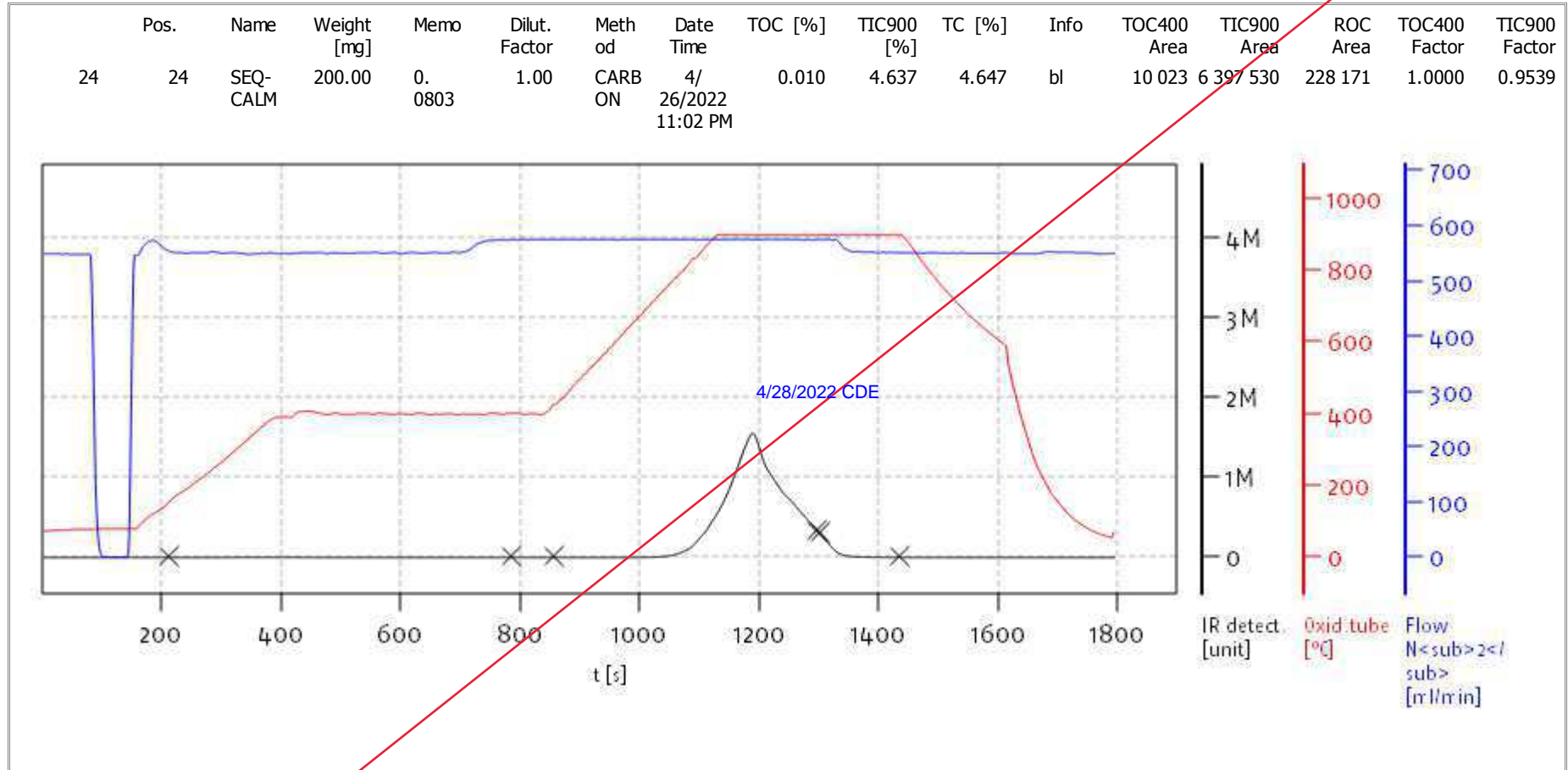
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solITOC V2.0.2 (31015f9) 2018-11-19  
Serial No: 0300.181017  
Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

Date: Wed Apr 27 11:07:12 2022

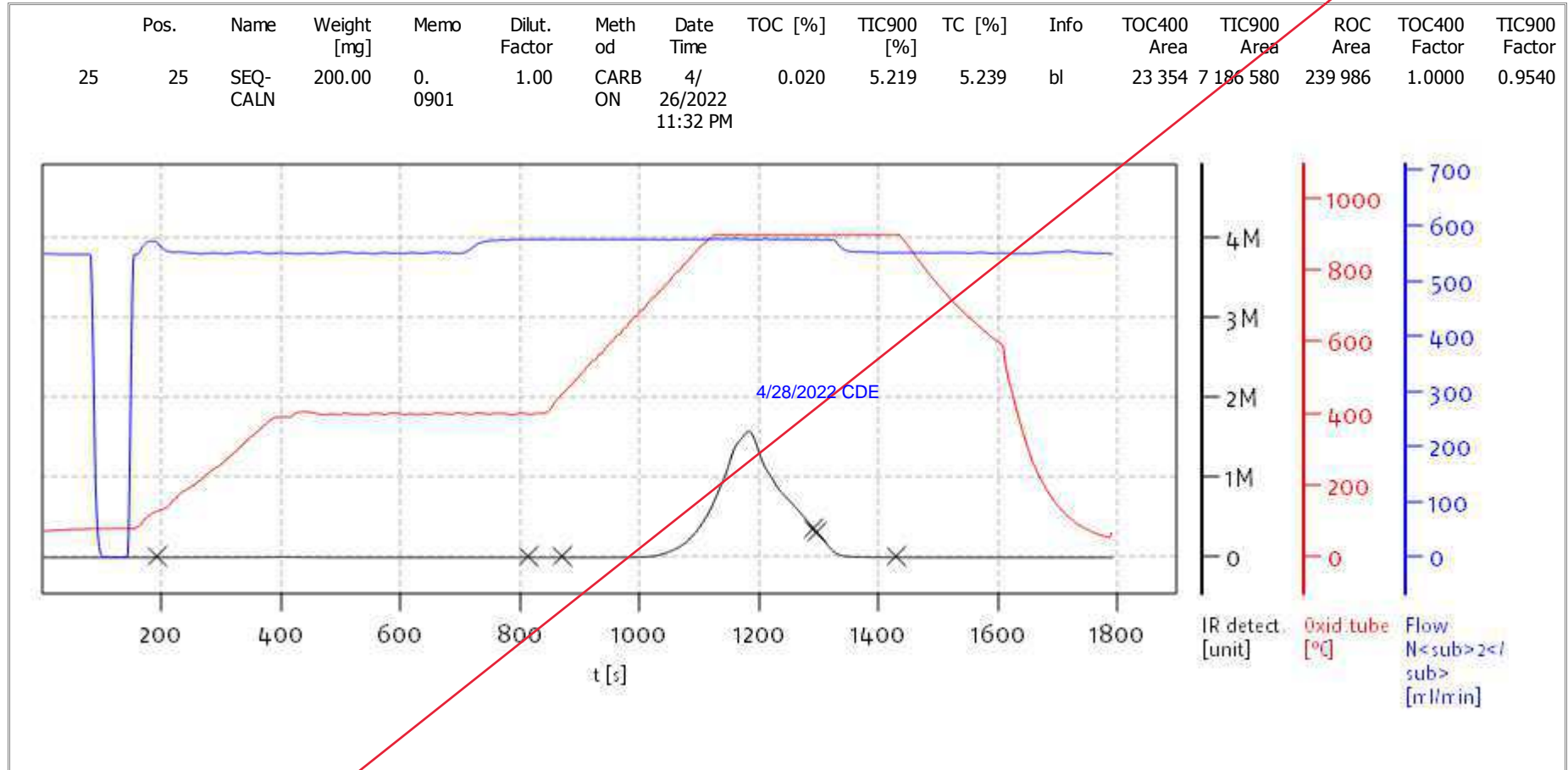


solITOC V2.0.2 (31015f9) 2018-11-19  
Serial No: 0300.181017  
Mode CCC





Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

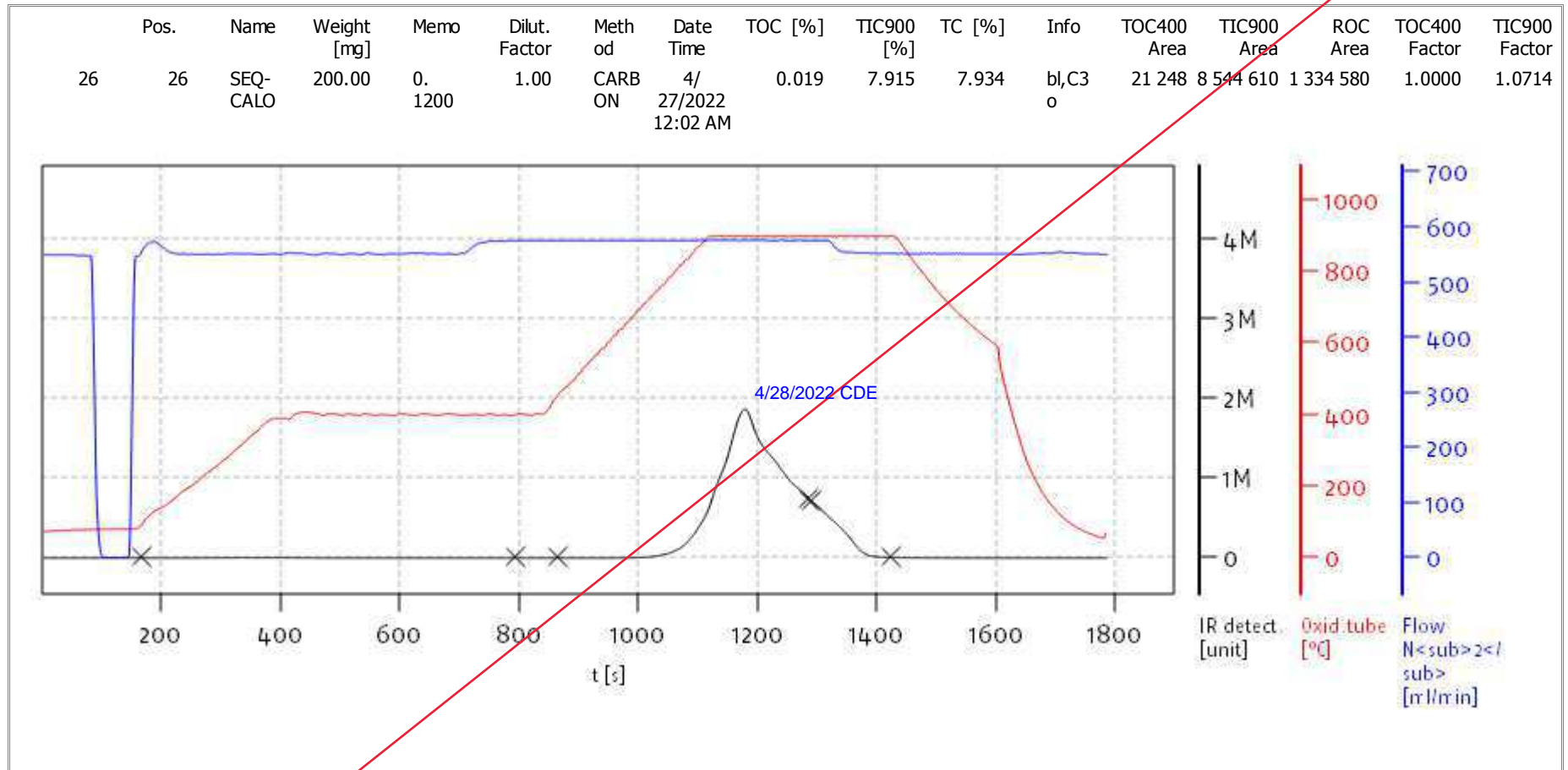
Date: Wed Apr 27 11:07:12 2022



solITOC V2.0.2 (31015f9) 2018-11-19  
Serial No: 0300.181017  
Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

Date: Wed Apr 27 11:07:12 2022

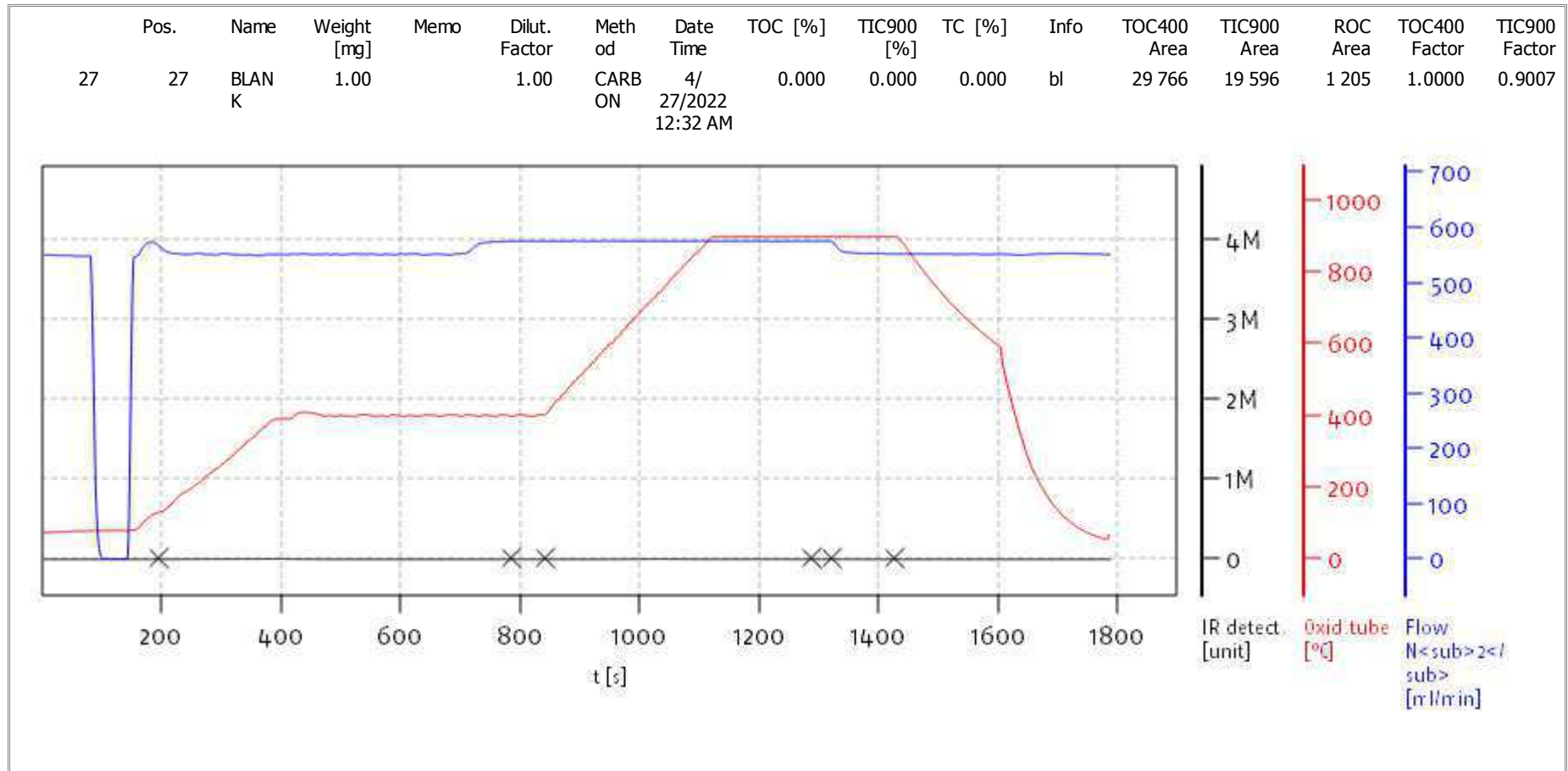


solITOC V2.0.2 (31015f9) 2018-11-19  
Serial No: 0300.181017  
Mode CCC





Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

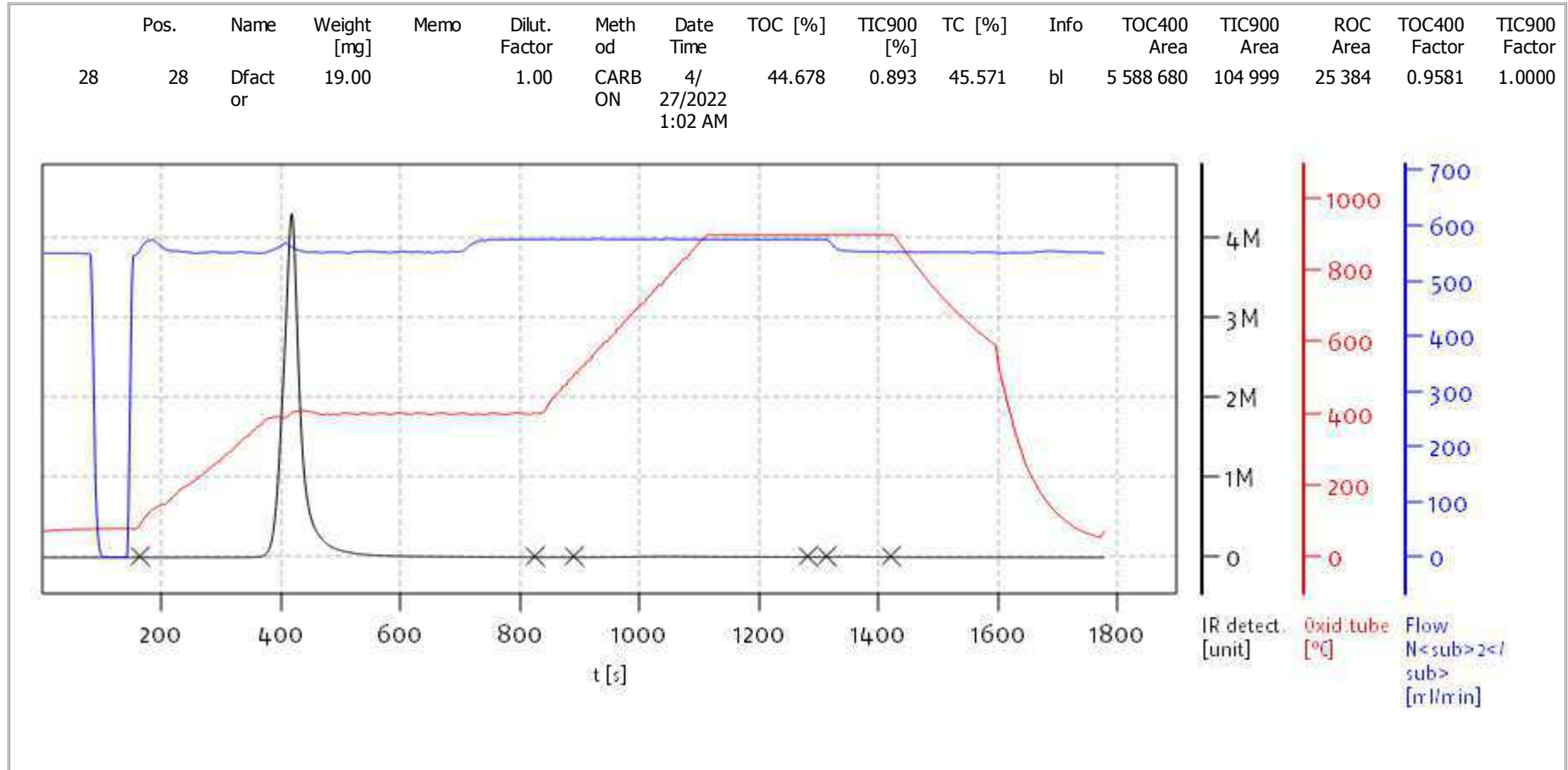
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solITOC V2.0.2 (31015f9) 2018-11-19  
Serial No: 0300.181017  
Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

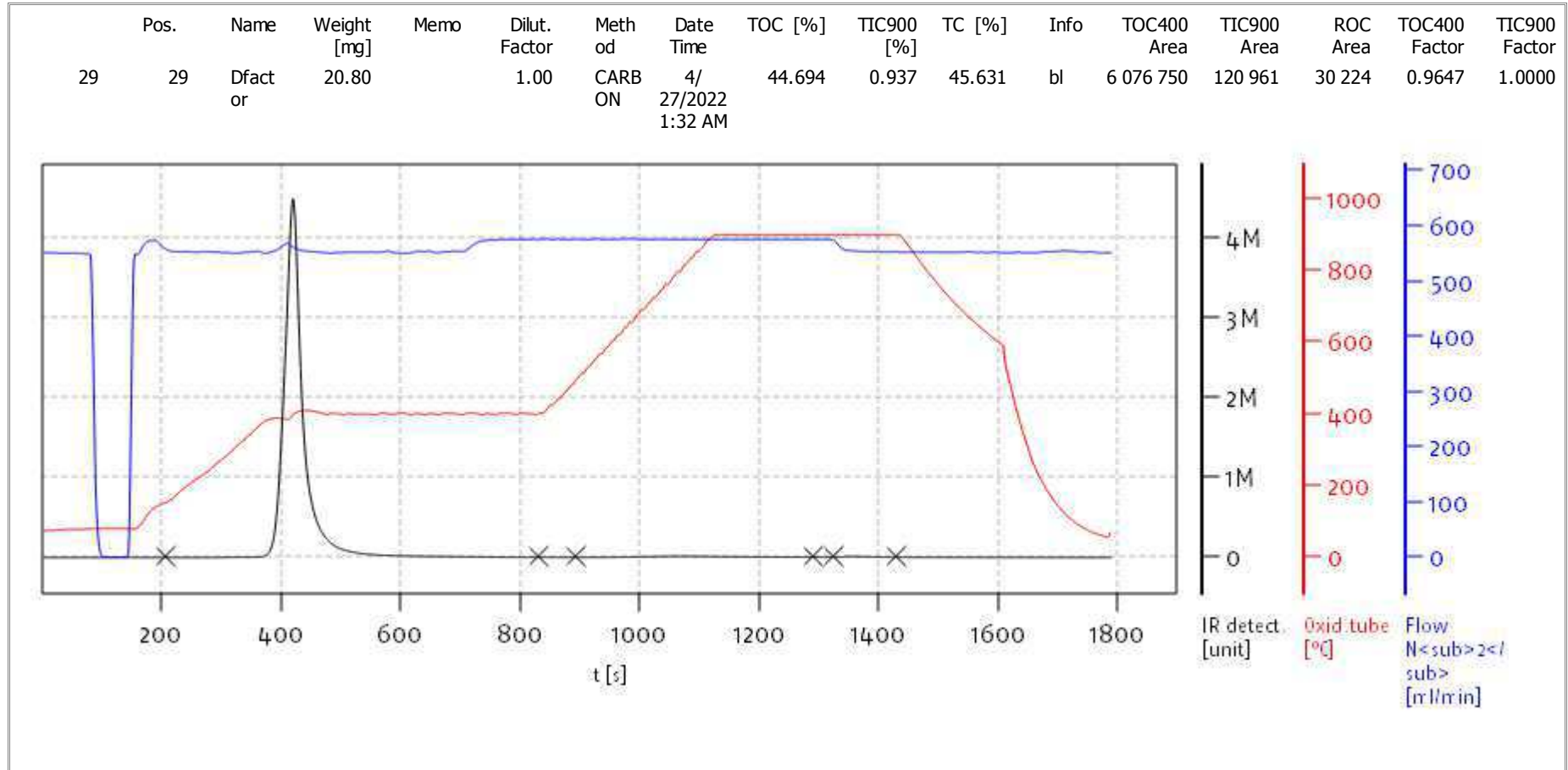
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solITOC V2.0.2 (31015f9) 2018-11-19  
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Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

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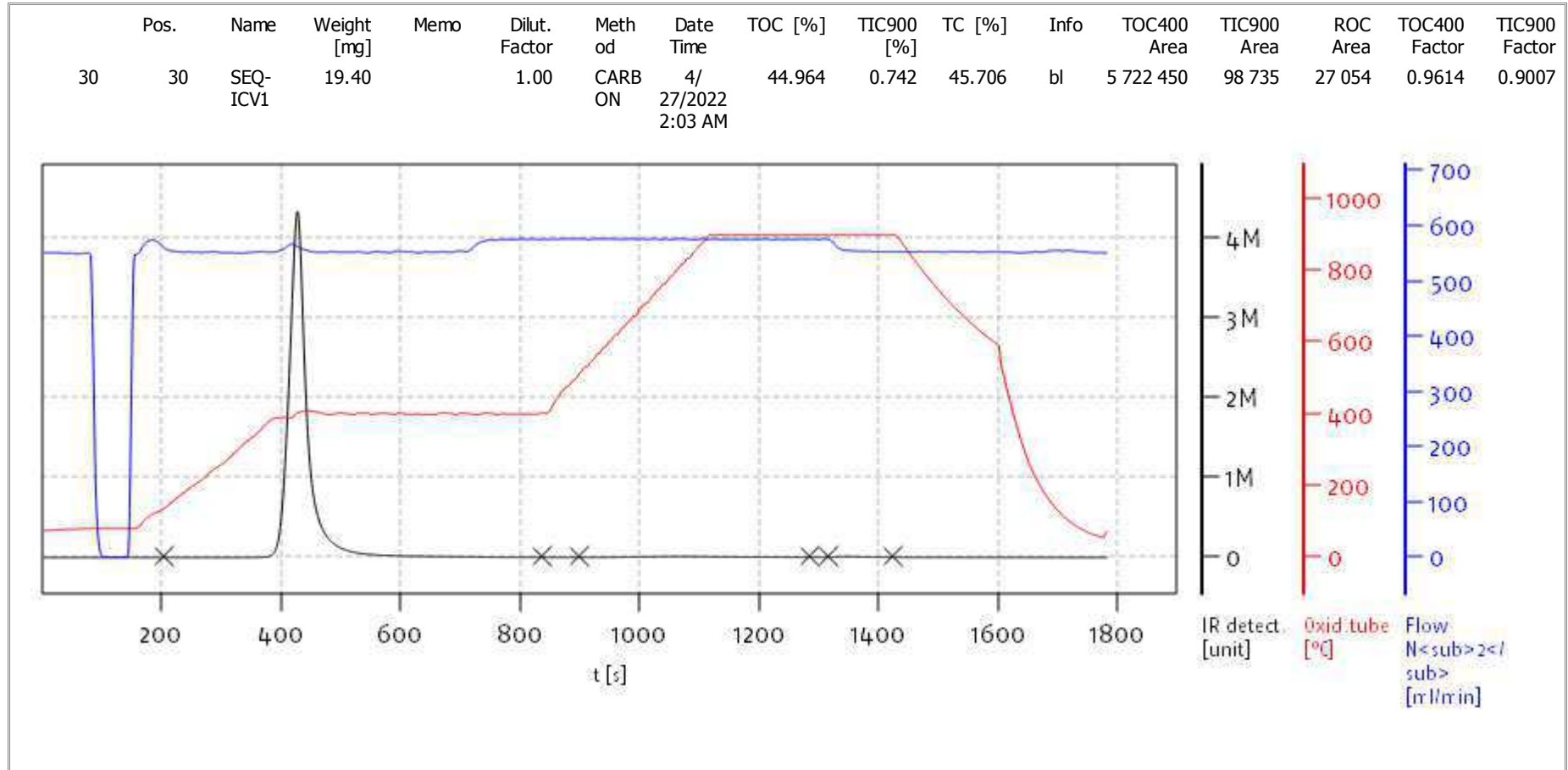
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solITOC V2.0.2 (31015f9) 2018-11-19  
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Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

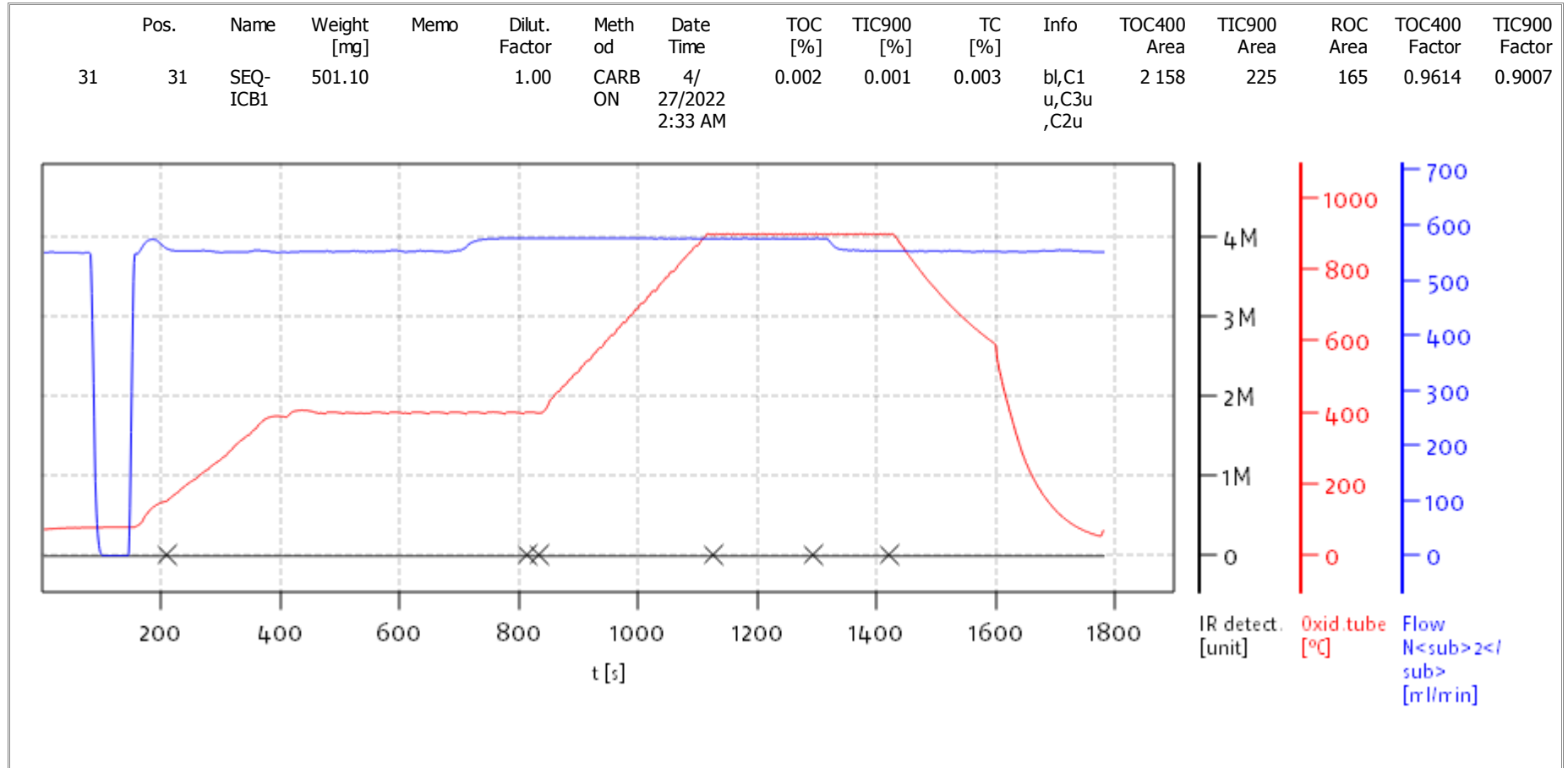
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solITOC V2.0.2 (31015f9) 2018-11-19  
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Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

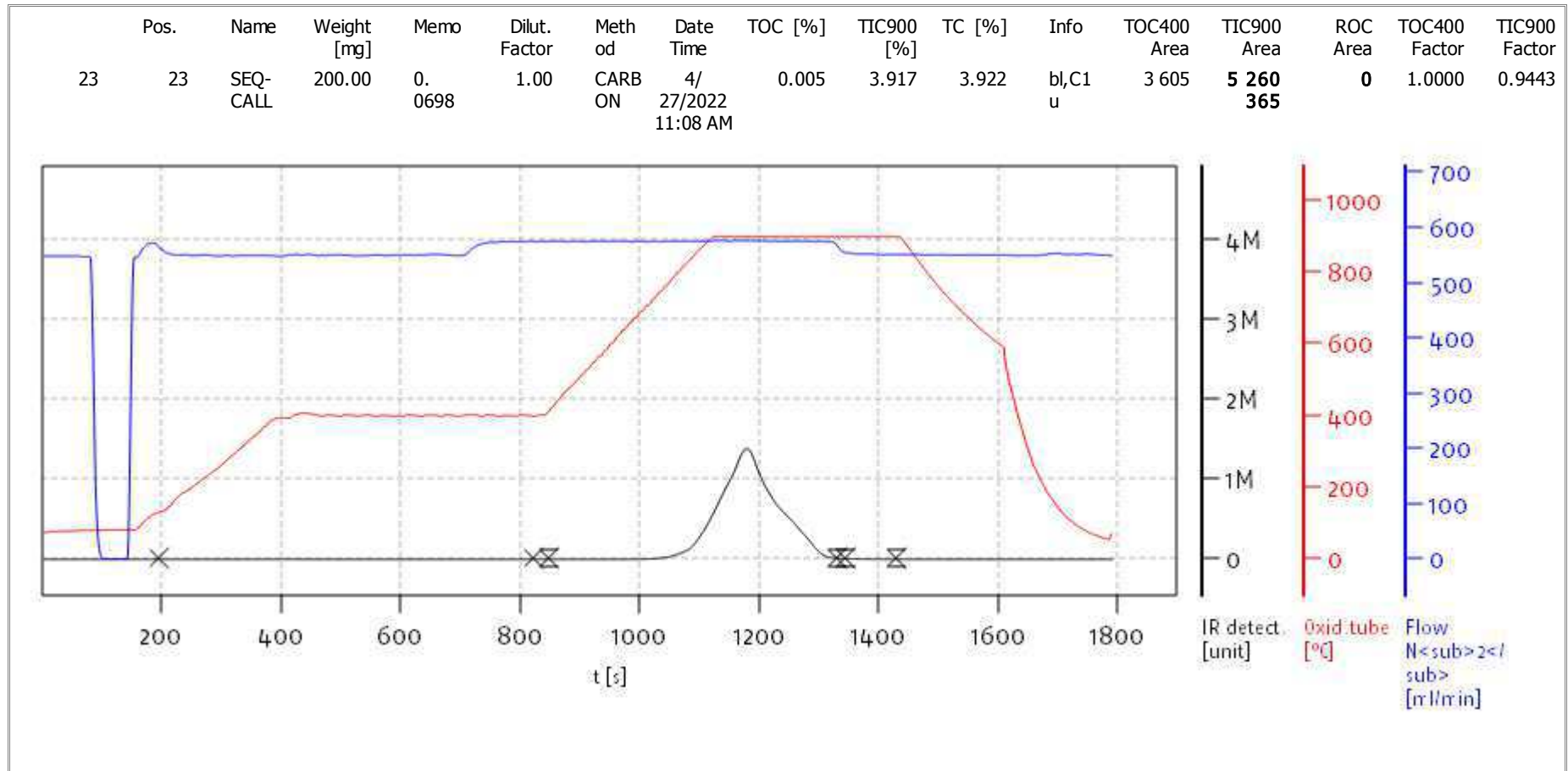
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solITOC V2.0.2 (31015f9) 2018-11-19  
Serial No: 0300.181017  
Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

Date: Wed Apr 27 11:10:16 2022

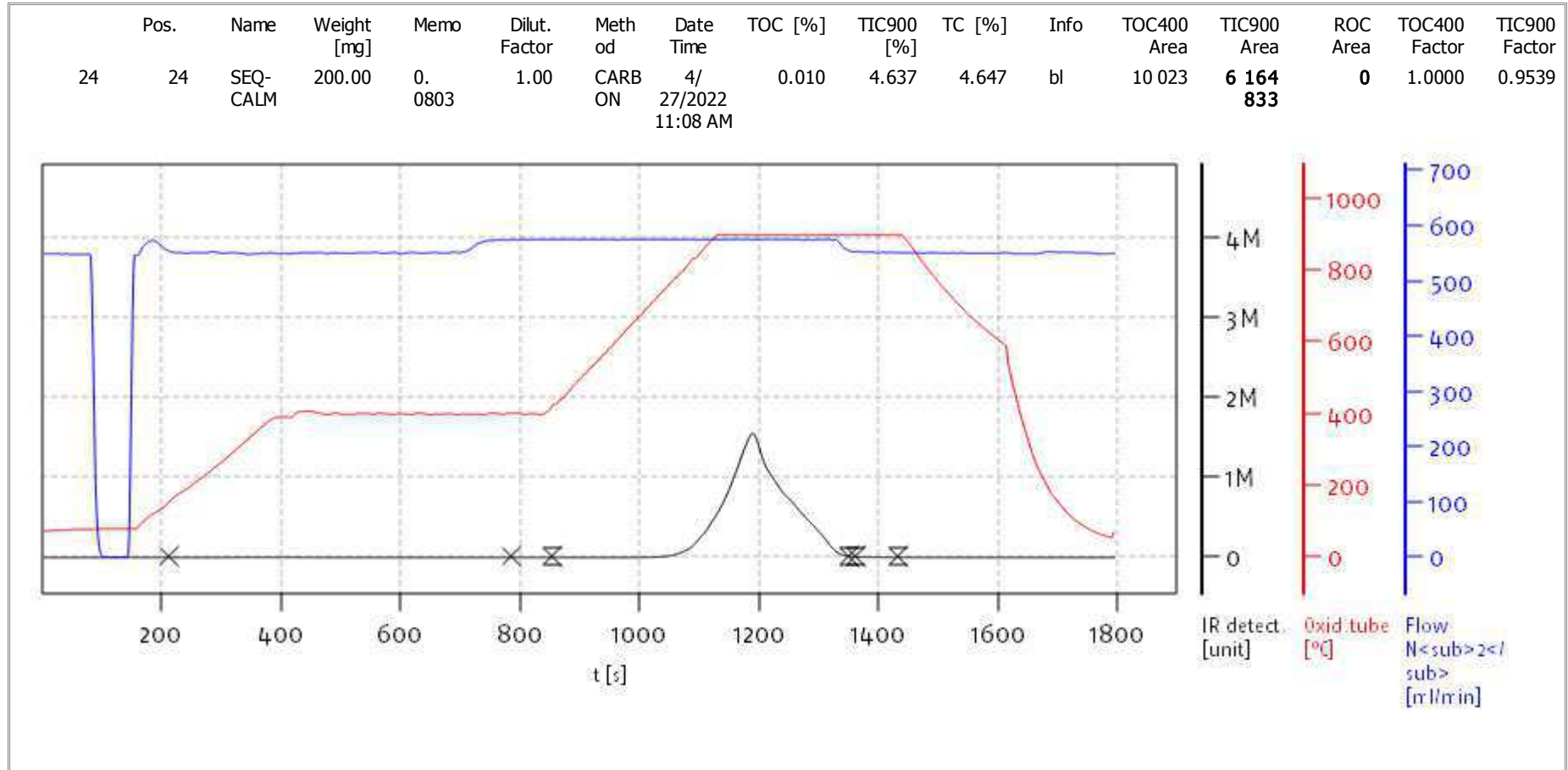


solITOC V2.0.2 (31015f9) 2018-11-19  
Serial No: 0300.181017  
Mode CCC





Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

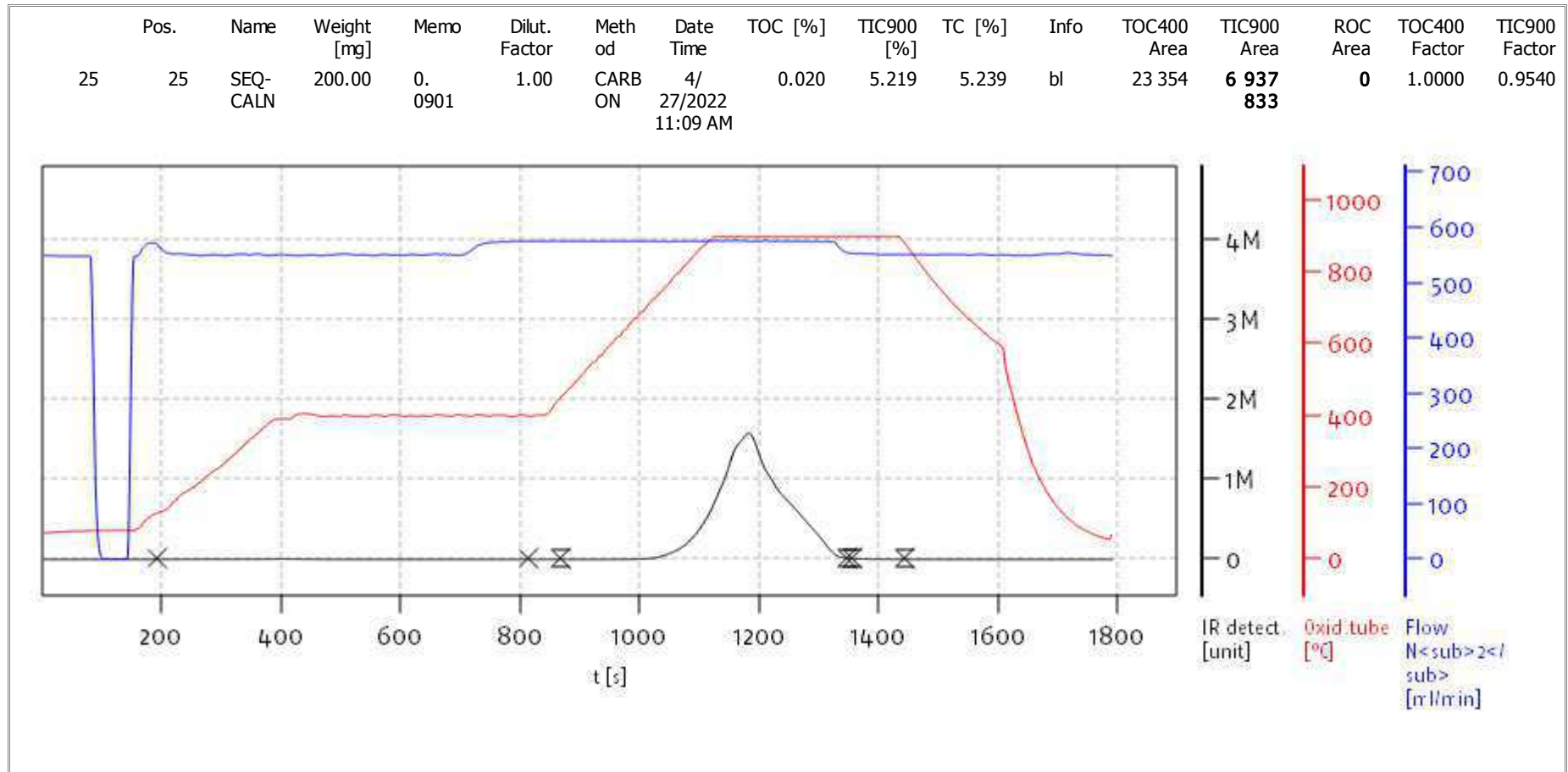
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solITOC V2.0.2 (31015f9) 2018-11-19  
Serial No: 0300.181017  
Mode CCC



Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

Date: Wed Apr 27 11:10:16 2022

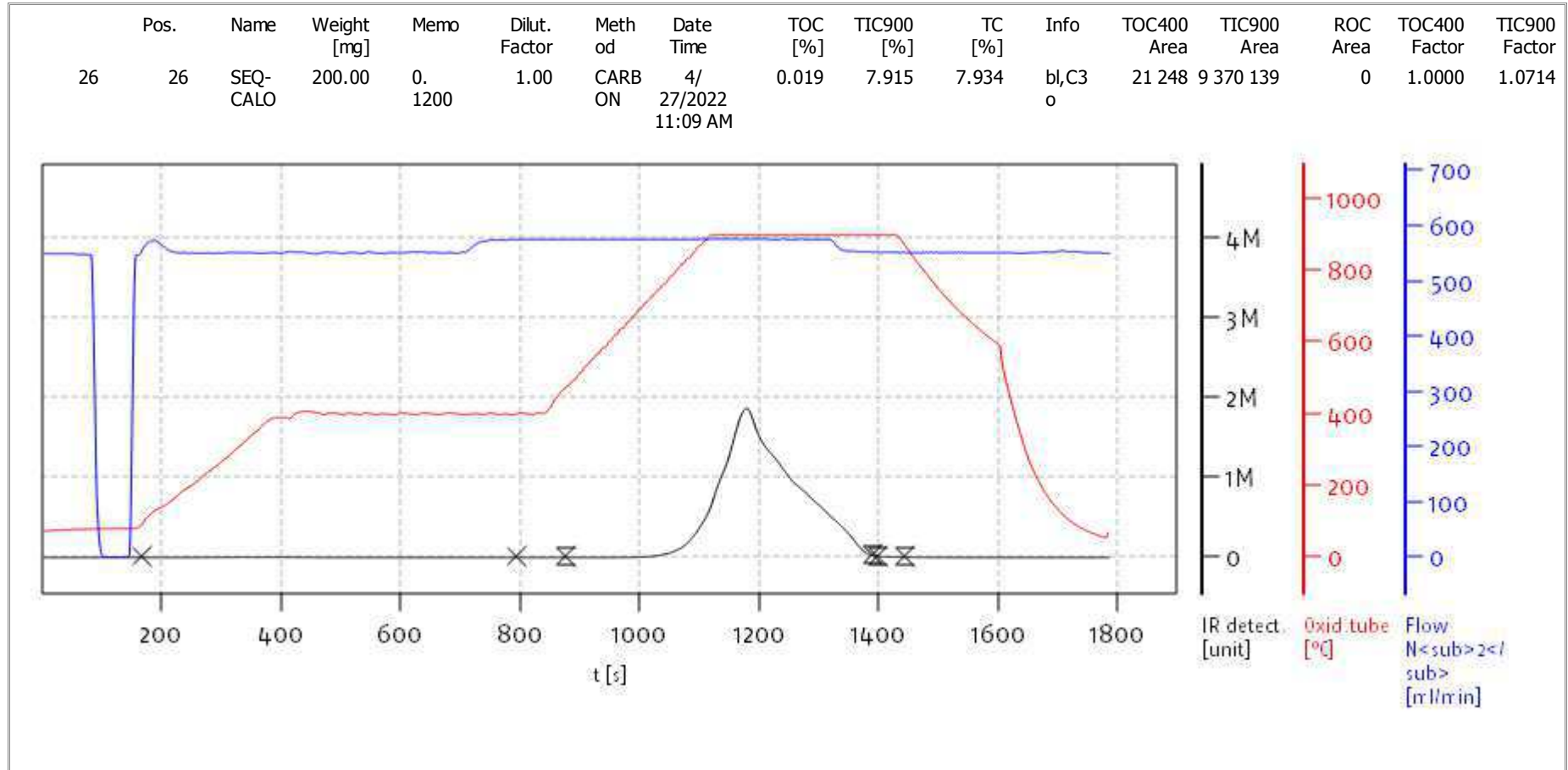


solITOC V2.0.2 (31015f9) 2018-11-19  
Serial No: 0300.181017  
Mode CCC





Soli TOC Cube, Carbon  
Balance: BAL3  
Analyst: DOE



Name:

Access: solITOC superuser

Date: Wed Apr 27 11:10:16 2022

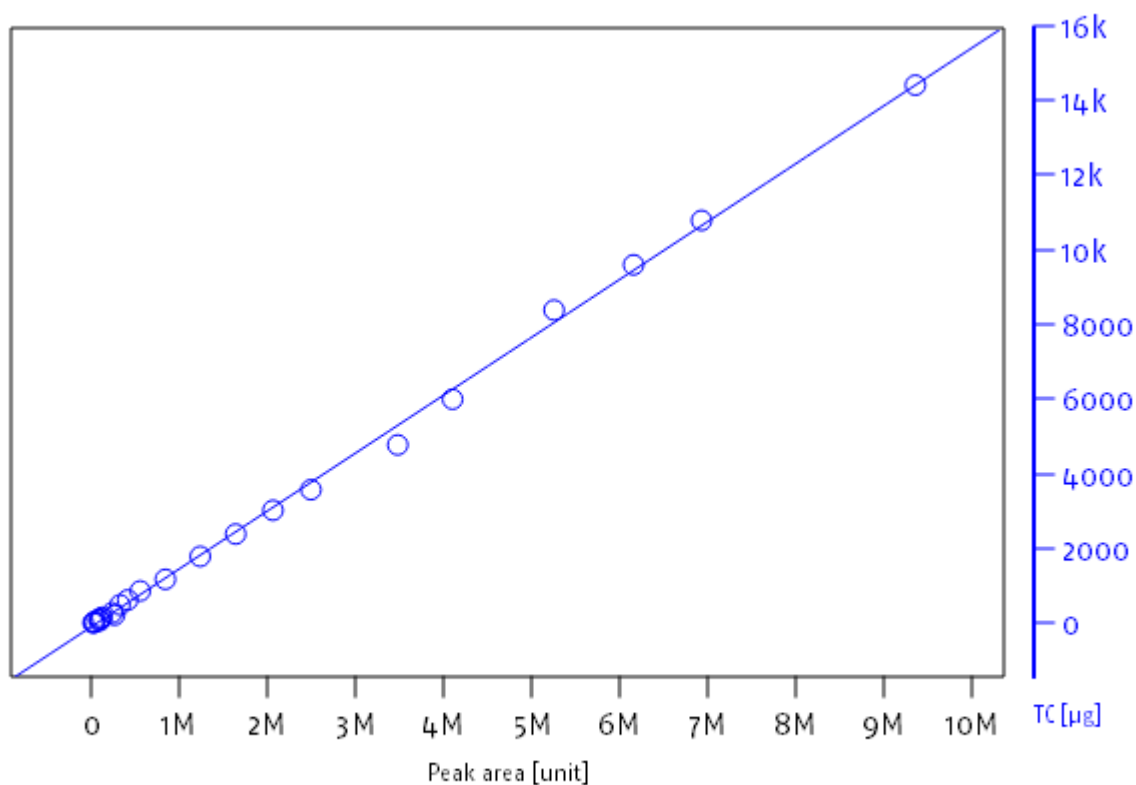


solITOC V2.0.2 (31015f9) 2018-11-19  
Serial No: 0300.181017  
Mode CCC

### Calibration parameters TC, Whole range

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| c        | +0.000000e+00 |
| d        | +0.000000e+00 |
| e        | +0.000000e+00 |
| r        | 0.998372      |
| r_old    | 0.998372      |
| Proc.-SD | 166.070255 µg |

Calibration graph TC, Whole range



Name:

Access: solITOC superuser

Date: Wed Apr 27 11:19:56 2022



solITOC V2.0.2 (31015f9) 2018-11-19  
 Serial No: 0300.181017  
 Mode CCC



**Analytical Resources, LLC**  
Analytical Chemists and Consultants

**INSTRUMENT BLANKS**  
**EPA 9060A m**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: TOC Cube

Calibration: FD00070

Sequence: SKD0371

Date Analyzed: 04/27/22 02:33

| Lab Sample ID | Analyte              | Found | MDL  | MRL  | Units | C |
|---------------|----------------------|-------|------|------|-------|---|
| SKD0371-ICB1  | Total Organic Carbon | 0.00  | 0.02 | 0.02 | %     |   |



**INSTRUMENT BLANKS**  
**EPA 9060A m**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: TOC Cube

Calibration: FD00070

Sequence: SLA0148

Date Analyzed: 01/16/23 11:32

| Lab Sample ID | Analyte              | Found | MDL  | MRL  | Units | C |
|---------------|----------------------|-------|------|------|-------|---|
| SLA0148-ICB1  | Total Organic Carbon | 0.00  | 0.02 | 0.02 | %     |   |
| SLA0148-CCB1  | Total Organic Carbon | 0.001 | 0.02 | 0.02 | %     |   |
| SLA0148-CCB2  | Total Organic Carbon | 0.001 | 0.02 | 0.02 | %     |   |
| SLA0148-CCB3  | Total Organic Carbon | 0.00  | 0.02 | 0.02 | %     |   |
| SLA0148-CCB4  | Total Organic Carbon | 0.00  | 0.02 | 0.02 | %     |   |
| SLA0148-CCB5  | Total Organic Carbon | 0.00  | 0.02 | 0.02 | %     |   |
| SLA0148-CCB6  | Total Organic Carbon | 0.00  | 0.02 | 0.02 | %     |   |
| SLA0148-CCB7  | Total Organic Carbon | 0.00  | 0.02 | 0.02 | %     |   |
| SLA0148-CCB8  | Total Organic Carbon | 0.00  | 0.02 | 0.02 | %     |   |
| SLA0148-CCB9  | Total Organic Carbon | 0.00  | 0.02 | 0.02 | %     |   |



**INITIAL AND CONTINUING  
CALIBRATION CHECK  
EPA 9060A m**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: TOC Cube

Calibration: FD00070

Control Limit: +/- 10.00%

Sequence: SKD0371

| Lab Sample ID | Analyte                | True   | Found | %R   | Units | Method      |
|---------------|------------------------|--------|-------|------|-------|-------------|
| SKD0371-ICV1  | Total Organic Carbon   | 44.446 | 43.7  | 98.3 | %     | EPA 9060A m |
|               | Total Carbon           | 44.446 | 44.1  | 99.2 | %     | EPA 9060A m |
|               | Total Inorganic Carbon | 0.0000 | 0.40  |      | %     | EPA 9060A m |
|               | % Soot                 | 0.0000 | 0.004 |      | %     | EPA 9060A m |

\* Values outside of QC limits



**INITIAL AND CONTINUING  
CALIBRATION CHECK  
EPA 9060A m**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: TOC Cube

Calibration: FD00070

Control Limit: +/- 10.00%

Sequence: SLA0148

| Lab Sample ID | Analyte              | True   | Found | %R   | Units | Method      |
|---------------|----------------------|--------|-------|------|-------|-------------|
| SLA0148-ICV1  | Total Organic Carbon | 44.446 | 44.1  | 99.2 | %     | EPA 9060A m |
| SLA0148-CCV1  | Total Organic Carbon | 44.446 | 44.5  | 100  | %     | EPA 9060A m |
| SLA0148-CCV2  | Total Organic Carbon | 44.446 | 44.5  | 100  | %     | EPA 9060A m |
| SLA0148-CCV3  | Total Organic Carbon | 44.446 | 44.3  | 99.8 | %     | EPA 9060A m |
| SLA0148-CCV4  | Total Organic Carbon | 44.446 | 44.6  | 100  | %     | EPA 9060A m |
| SLA0148-CCV5  | Total Organic Carbon | 44.446 | 44.6  | 100  | %     | EPA 9060A m |
| SLA0148-CCV6  | Total Organic Carbon | 44.446 | 44.7  | 101  | %     | EPA 9060A m |
| SLA0148-CCV7  | Total Organic Carbon | 44.446 | 45.5  | 102  | %     | EPA 9060A m |
| SLA0148-CCV8  | Total Organic Carbon | 44.446 | 44.0  | 99.0 | %     | EPA 9060A m |
| SLA0148-CCV9  | Total Organic Carbon | 44.446 | 45.1  | 102  | %     | EPA 9060A m |

\* Values outside of QC limits



**STANDARD REFERENCE MATERIAL RECOVERY**

**EPA 9060A m**

**Laboratory:** Analytical Resources, LLC

**SDG:** 23A0179

**Client:** Anchor QEA, LLC

**Project:** AOC5 MR Phase 1

**Matrix:** Solid

**Laboratory ID:** BLA0320-SRM1

**Batch:** BLA0320

**Initial/Final:** 0.2734 g / 0.2734 g

**Preparation:** Plumb 1981

**Analyzed:** 01/16/2023 13:34

**Standard ID:** L000299

**Expires:** 01/11/2024

**Standard Lot#:** NA

**Description:** 1941B - Organics in Marine Sediment (Conv

| ANALYTE              | TRUE<br>(% wet) | FOUND<br>(% wet) | MDL  | MRL  | Q | SRM<br>%<br>REC. | QC<br>LIMITS<br>REC. |
|----------------------|-----------------|------------------|------|------|---|------------------|----------------------|
| Total Organic Carbon | 2.9900          | 2.94             | 0.02 | 0.02 |   | 98.5             | 80 - 120             |

\* Values outside of QC limits



## HOLDING TIME SUMMARY

Analysis: EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

| Sample Name                 | Date Collected    | Date Received     | Date Prepared     | Days to Prep | Max Days to Prep | Date Analyzed     | Days to Analysis | Max Days to Analysis | Q |
|-----------------------------|-------------------|-------------------|-------------------|--------------|------------------|-------------------|------------------|----------------------|---|
| LDW23-SS1277<br>23A0179-01  | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 01/13/23<br>09:35 | 3            | 180              | 01/16/23<br>14:04 |                  |                      |   |
| LDW23-SS1271<br>23A0179-02  | 01/10/23<br>08:43 | 01/10/23<br>17:10 | 01/13/23<br>09:35 | 3            | 180              | 01/16/23<br>15:35 |                  |                      |   |
| LDW23-SS1266<br>23A0179-03  | 01/10/23<br>09:04 | 01/10/23<br>17:10 | 01/13/23<br>09:35 | 3            | 180              | 01/16/23<br>16:06 |                  |                      |   |
| LDW23-SS1248<br>23A0179-04  | 01/10/23<br>09:20 | 01/10/23<br>17:10 | 01/13/23<br>09:35 | 3            | 180              | 01/16/23<br>16:36 |                  |                      |   |
| LDW23-SS1239<br>23A0179-05  | 01/10/23<br>09:35 | 01/10/23<br>17:10 | 01/13/23<br>09:35 | 3            | 180              | 01/16/23<br>18:06 |                  |                      |   |
| LDW23-SS1213<br>23A0179-06  | 01/10/23<br>09:54 | 01/10/23<br>17:10 | 01/13/23<br>09:35 | 2            | 180              | 01/16/23<br>18:37 |                  |                      |   |
| LDW23-SS1200<br>23A0179-07  | 01/10/23<br>10:10 | 01/10/23<br>17:10 | 01/13/23<br>09:35 | 2            | 180              | 01/16/23<br>19:07 |                  |                      |   |
| LDW23-SS1178<br>23A0179-08  | 01/10/23<br>10:56 | 01/10/23<br>17:10 | 01/13/23<br>09:35 | 2            | 180              | 01/16/23<br>19:37 |                  |                      |   |
| LDW23-SS1171<br>23A0179-09  | 01/10/23<br>11:08 | 01/10/23<br>17:10 | 01/13/23<br>09:35 | 2            | 180              | 01/16/23<br>20:08 |                  |                      |   |
| LDW23-SS1112<br>23A0179-10  | 01/10/23<br>11:28 | 01/10/23<br>17:10 | 01/13/23<br>09:35 | 2            | 180              | 01/16/23<br>20:38 |                  |                      |   |
| LDW23-SS1039<br>23A0179-11  | 01/10/23<br>11:56 | 01/10/23<br>17:10 | 01/13/23<br>09:35 | 2            | 180              | 01/16/23<br>21:08 |                  |                      |   |
| LDW23-SS1007<br>23A0179-12  | 01/10/23<br>12:48 | 01/10/23<br>17:10 | 01/13/23<br>09:35 | 2            | 180              | 01/16/23<br>21:39 |                  |                      |   |
| Duplicate<br>BLA0320-DUP1   | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 01/13/23<br>09:35 | 3            | 180              | 01/16/23<br>14:35 |                  |                      |   |
| Matrix Spike<br>BLA0320-MS1 | 01/10/23<br>08:24 | 01/10/23<br>17:10 | 01/13/23<br>09:35 | 3            | 180              | 01/16/23<br>15:05 |                  |                      |   |

\* Indicates hold time exceedance.





**Analytical Resources, LLC**  
Analytical Chemists and Consultants

## METHOD DETECTION AND REPORTING LIMITS

**EPA 9060A m**

Laboratory: Analytical Resources, LLC

SDG: 23A0179

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Instrument: TOC Cube

| <b>Analyte</b>       | <b>MDL</b> | <b>RL</b> | <b>Units</b> |
|----------------------|------------|-----------|--------------|
| Total Organic Carbon | 0.02       | 0.02      | %            |



# National Institute of Standards & Technology

## Certificate of Analysis

### Standard Reference Material® 1941b

#### Organics in Marine Sediment

This Standard Reference Material (SRM) is marine sediment collected at the mouth of the Baltimore (MD) Harbor. SRM 1941b is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and chlorinated pesticides in marine sediment and similar matrices. Information values are also provided for total organic carbon (TOC), total carbon, hydrogen, and nitrogen. All of the constituents for which certified, reference, and information values are provided in SRM 1941b were naturally present in the sediment before processing. A unit of SRM 1941b consists of a bottle containing 50 g of radiation-sterilized, freeze-dried sediment.

**Certified Mass Fraction Values:** Certified mass fraction values for PAHs, PCB congeners, and chlorinated pesticides are provided in Table 1 through Table 3. The certified values for the PAHs, PCB congeners, and chlorinated pesticides are based on the agreement of results obtained at NIST from two or more chemically independent analytical techniques along with results from an interlaboratory comparison study [1]. A NIST certified value is a value for which NIST has the highest confidence in its accuracy in that all known or suspected sources of bias have been investigated or taken into account [1].

**Reference Mass Fraction Values:** Reference mass fraction values for additional PAHs (some in combination), additional PCB congeners, and additional chlorinated pesticides are provided in Table 4 through Table 7. Reference values for alkylated PAH groups are provided in Table 8 and for selected hopanes and steranes in Table 9. A reference value for total organic carbon is provided in Table 10. Reference values are noncertified values that are the best estimate of the true value; however, the values do not meet the NIST criteria for certification and are provided with associated uncertainties that may reflect only measurement precision, may not include all sources of uncertainty, or may reflect a lack of sufficient statistical agreement among multiple analytical methods [1].

**Information Mass Fraction Values:** Information mass fraction values are provided in Table 11 for carbon, hydrogen, and nitrogen. An information value is considered to be a value that will be of use to the SRM user, but insufficient information is available to assess the uncertainty associated with the value [1]. Information values cannot be used to establish metrological traceability.

**Expiration of Certification:** The certification of SRM 1941b is valid, within the measurement uncertainty specified, until **01 October 2020**, provided the SRM is handled and stored in accordance with the instructions given in this certificate (see "Instructions for Handling, Storage, and Use"). This certification is nullified if the SRM is damaged, contaminated, or otherwise modified.

**Maintenance of SRM Certification:** NIST will monitor this SRM over the period of its certification. If substantive technical changes occur that affect the certification before the expiration of this certificate, NIST will notify the purchaser. Registration (see attached sheet or register online) will facilitate notification.

Coordination of the technical measurements leading to the certification of this material was under the leadership of M.M. Schantz and S.A. Wise of the NIST Chemical Sciences Division.

Analytical measurements for the certification of SRM 1941b were performed at NIST by J.R. Kucklick, B.J. Porter, D.L. Poster, M.M. Schantz, P. Schubert, S. Tutschku, and L.L. Yu of the NIST Chemical Sciences Division.

Carlos A. Gonzalez, Chief  
Chemical Sciences Division

Measurements for TOC were provided by a commercial laboratory and T.L. Wade of the Geochemical and Environmental Research Group, Texas A&M University (College Station, TX). The carbon, hydrogen, and nitrogen data were provided by a commercial laboratory. Results for the PAHs, PCBs, and chlorinated pesticides from 38 laboratories (see Appendix A) that participated in an interlaboratory comparison exercise coordinated by NIST were used. Results for the alkylated PAH groups, hopanes, and steranes from 33 laboratories (see Appendix B) that participated in another interlaboratory comparison exercise coordinated by NIST were also used.

Collection and preparation of SRM 1941b were performed by M.P. Cronise and C.N. Fales of the NIST Office of Reference Materials and B.J. Porter and M.M. Schantz of the NIST Chemical Sciences Division. The sediment material was collected with the assistance of G.G. Lauenstein, J. Collier, and J. Lewis (National Oceanic and Atmospheric Administration, Silver Spring, MD).

Consultation on the statistical design of the experimental work and evaluation of the data were provided by S.D. Leigh and J.H. Yen of the NIST Statistical Engineering Division.

Support aspects involved in the issuance of this SRM were coordinated through the NIST Office of Reference Materials.

## INSTRUCTIONS FOR HANDLING, STORAGE, AND USE

**Handling:** This material is naturally occurring marine sediment from an urban area and may contain constituents of unknown toxicities; therefore, caution and care should be exercised during its handling and use.

**Storage:** SRM 1941b must be stored in its original bottle at temperatures less than 30 °C and away from direct sunlight.

**Use:** Prior to removal of subsamples for analysis, the contents of the bottle should be mixed. The mass fractions of constituents in SRM 1941b are reported on a dry-mass basis. The SRM, as received, contains a mass fraction of approximately 2.4 % moisture (see "Conversion to Dry-Mass Basis"). The sediment sample should be dried to a constant mass before weighing for analysis; or a separate subsample of the sediment should be removed from the bottle at the time of analysis and dried to determine the mass fraction on a dry-mass basis. If the constituents of interest are volatile, then the moisture must be determined with a separate subsample.

## PREPARATION AND ANALYSIS<sup>(1)</sup>

**Sample Collection and Preparation:** The sediment used to prepare this SRM was collected from the Chesapeake Bay at the mouth of the Baltimore (MD) Harbor near the Francis Scott Key Bridge (39°12.3'N and 76°31.4'W). This location is very near the site where SRM 1941 and SRM 1941a were collected. The sediment was collected using a Kynar-coated modified Van Veen-type grab sampler. A total of approximately 3300 kg of wet sediment was collected from the site. The sediment was freeze-dried, sieved at 150 µm (100 % passing), homogenized in a cone blender, radiation sterilized (<sup>60</sup>Co), and then packaged in screw-capped amber glass bottles each containing approximately 50 g.

**Conversion to Dry-Mass Basis:** The results for the constituents in SRM 1941b are reported on a dry-mass basis; however, the material "as received" contains residual moisture. The amount of moisture in SRM 1941b was determined by measuring the mass loss after freeze-drying subsamples of 1.1 g to 1.3 g for four days at 1 Pa with a -10 °C shelf temperature and a -50 °C condenser temperature. The moisture content in SRM 1941b at the time of the certification analyses was 2.39 % ± 0.08 % (95 % confidence level). Analytical results for the organic constituents were determined on an as-received basis and then converted to a dry-mass basis by dividing by the conversion factor of 0.9761 (gram dry mass per gram as-received mass).

**Polycyclic Aromatic Hydrocarbons:** The general approach used for the value assignment of the PAHs in SRM 1941b was similar to that reported in detail elsewhere [2]. The approach consisted of combining results from analyses using various combinations of different extraction techniques and solvents, clean-up/isolation procedures, and chromatographic separation and detection techniques: Soxhlet extraction and pressurized-fluid extraction (PFE) using dichloromethane (DCM) or a hexane/acetone mixture, cleanup of the extracts using solid-phase extraction (SPE) or normal-phase liquid chromatography (LC), followed by analysis using the following techniques: (1) reversed-phase liquid chromatography with fluorescence detection (LC-FL) analysis of the total PAH fraction, (2) reversed-phase

<sup>(1)</sup> Certain commercial equipment, instruments or materials are identified in this certificate to adequately specify the experimental procedure. Such identification does not imply recommendation or endorsement by the National Institute of Standards and Technology.

LC-FL analysis of isomeric PAH fractions isolated by normal-phase LC (i.e., multidimensional LC), (3) gas chromatography/mass spectrometry (GC/MS) analysis of the PAH fraction on three stationary phases of different selectivity, i.e., a 5 % (all column compositions are given as mole fractions in %) phenyl-substituted methylpolysiloxane phase, a 50 % phenyl-substituted methylpolysiloxane phase, and a relatively non-polar proprietary phase.

Three sets of GC/MS results, designated as GC/MS (I), GC/MS (II), and GC/MS (III), were obtained using three columns with different selectivities for the separation of PAHs. For GC/MS (I) analyses, duplicate subsamples of approximately 1 g from ten bottles of SRM 1941b were extracted using PFE with DCM. Copper powder was added to the extract to remove elemental sulfur. The concentrated extract was passed through an aminopropyl SPE cartridge and eluted with 2 % DCM in hexane (all solvent concentrations are given as volume fractions in %). The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5 MS, J&W Scientific, Folsom, CA). The GC/MS (II) analyses were performed using 5 g subsamples from six bottles of SRM 1941b. These samples were extracted using PFE with DCM. The high molecular mass compounds were removed from the extracts using size exclusion chromatography (SEC) with a preparative-scale divinylbenzene-polystyrene column (10 μm particle size with 10 nm diameter pores), and the sulfur was removed from the extracts by adding copper powder. The concentrated extract was passed through an aminopropyl SPE cartridge and eluted with 10 % DCM in hexane. The analysis was by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 50 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-17 MS, J&W Scientific). For the GC/MS (III), 9 g subsamples from six bottles of SRM 1941b were Soxhlet-extracted for 18 h with 250 mL of a mixture of 50 % hexane/50 % acetone. Copper powder was added to the extract to remove elemental sulfur, and the concentrated extract was passed through a silica SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a relatively non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific).

Two sets of LC-FL results, designated as LC-FL (total) and LC-FL (isomer), were used in the certification process. For the LC-FL (total), subsamples of approximately 1 g from six bottles of SRM 1941b were extracted using PFE with a mixture of 50 % hexane/50 % acetone. The extracts were concentrated and then processed through an aminopropylsilane SPE cartridge using 2 % DCM in hexane to obtain the total PAH fraction. For the LC-FL (isomer), a 5 g subsample from the six bottles was extracted using PFE with DCM and processed through an aminopropylsilane SPE cartridge using 10 % DCM in hexane; the PAH fraction was then fractionated further on a semi-preparative aminopropylsilane column (μBondapak NH<sub>2</sub>, 9 mm i.d. × 30 cm, Waters Associates, Milford, MA) to isolate isomeric PAH fractions as described previously [3–6]. The total PAH fraction and the isomeric PAH fractions were analyzed using a 5 μm particle-size polymeric octadecylsilane (C<sub>18</sub>) column (4.6 mm i.d. × 25 cm, Hypersil-PAH, Keystone Scientific, Inc., Bellefonte, PA) with wavelength-programmed fluorescence detection [4,5].

For the GC/MS and LC-FL measurements described above, selected perdeuterated PAHs were added to the sediment prior to solvent extraction for use as internal standards for quantification purposes.

In addition to the analyses performed at NIST, SRM 1941b was used in an interlaboratory comparison exercise in 1999 as part of the NIST Intercomparison Exercise Program for Organic Contaminants in the Marine Environment [7]. Results from 38 laboratories that participated in this exercise were used as the sixth data set in the determination of the certified values for PAHs in SRM 1941b. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest.

**Homogeneity Assessment for PAHs:** The homogeneity of SRM 1941b was assessed by analyzing duplicate samples of approximately 1 g from ten bottles selected by stratified random sampling. Samples were extracted, processed, and analyzed as described above for GC/MS (I). No statistically significant differences among bottles were observed for the PAHs at this sample size.

**PAH Isomers of Molecular Mass 300 and 302:** For the determination of the molecular mass 300 and 302 isomers, three subsamples of approximately 5 g each were extracted using PFE with DCM. The extracts were then concentrated with a solvent change to hexane and passed through an aminopropyl SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 50 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-17MS, J&W Scientific). Perdeuterated dibenzo[*a,i*]pyrene was added to the sediment prior to extraction for use as an internal standard [8].

**PCBs and Chlorinated Pesticides:** The general approach used for the determination of PCBs and chlorinated pesticides in SRM 1941b consisted of combining results from analyses using various combinations of different extraction techniques and solvents, cleanup/isolation procedures, and chromatographic separation and detection techniques. Techniques and solvents included Soxhlet extraction and PFE using DCM or a hexane/acetone mixture.

clean-up/isolation using SPE or LC, followed by analysis using GC/MS and gas chromatography with electron capture detection (GC-ECD) on two columns with different selectivity for the separation of PCBs and chlorinated pesticides. The analytical methods are described in detail elsewhere [2].

Six sets of results were obtained and designated as GC-ECD (I) A and B, GC/MS (I) A and B, GC/MS (II), and Interlaboratory Comparison Exercise. For the GC-ECD (I) analyses, approximately 10 g subsamples from six bottles of SRM 1941b were extracted using PFE with DCM. Copper powder was added to the extract to remove elemental sulfur, and SEC, as described above, was used to remove the high molecular mass compounds. The concentrated extract was then fractionated on a semi-preparative aminopropylsilane column to isolate two fractions containing: (1) the PCBs and lower-polarity pesticides and (2) the more polar pesticides. GC-ECD analyses of the two fractions were performed on two columns of different selectivities for PCB separations: 0.25 mm × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5, J&W Scientific), and a 0.25 mm × 60 m fused silica capillary column with a non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific). The results from the 5 % phenyl phase are designated as GC-ECD (IA) and the results from the proprietary phase are designated as GC-ECD (IB). For the GC-ECD analyses, two PCB congeners that are not significantly present in the sediment extract (PCB 103 and PCB 198 [9,10]) and endosulfan I-*d*<sub>4</sub>, 4,4'-DDE-*d*<sub>8</sub>, 4,4'-DD-*d*<sub>8</sub>, and 4,4'-DDT-*d*<sub>8</sub> were added to the sediment prior to extraction for use as internal standards for quantification purposes.

Two sets of results were obtained by GC/MS. For GC/MS (I), approximately 9 g subsamples from six bottles were Soxhlet- extracted with a mixture of 50 % hexane/50 % acetone for approximately 18 h. Copper powder was added to the extract to remove elemental sulfur, and the concentrated extract was passed through a silica SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS with two ionization modes, electron impact (EI) and negative ion chemical ionization (NICI). The GC/MS EI method, GC/MS (IA), used a 0.25 mm i.d. × 60 m fused silica capillary column with a relatively non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific). The GC/MS NICI method, GC/MS (IB), used a 0.25 mm i.d. × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5MS, J&W Scientific). The GC/MS (II) results were obtained in the same manner as the GC/MS (IA) analyses except that three subsamples were Soxhlet-extracted with DCM for approximately 18 h. For the GC/MS analyses, selected carbon-13 labeled PCB congeners and chlorinated pesticides were added to the sediment prior to extraction for use as internal standards for quantification purposes.

In addition to the analyses performed at NIST, SRM 1941b was used in an interlaboratory comparison exercise in 1999 as part of the NIST Intercomparison Exercise Program for Organic Contaminants in the Marine Environment [7]. Results from 38 laboratories that participated in this exercise were used as the sixth data set in the determination of the certified values for PCB congeners and chlorinated pesticides in SRM 1941b. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest.

The reference value for PCB 77 was determined from a separate fraction. The samples were extracted and processed as for GC-ECD (I) above. The first (PCB and lower-polarity pesticide) fraction from the semi-preparative aminopropylsilane column was further fractionated using a Cosmosil PYE (pyrenylethyl group bonded) column (5 μm particle size, 4.6 mm i.d. × 25 cm; Phenomenex, Torrance, CA) [11]. Three fractions were collected: the first fraction contained the pesticides and multi-*ortho* PCBs, the second fraction contained the polychlorinated naphthalenes, non-*ortho* PCB congeners, and some mono-*ortho* PCB congeners, and the third fraction removed the residual planar compounds from the column. The second fraction was analyzed by GC/MS NICI using the same column as GC/MS (IB) above. Carbon-13 labeled PCB 77 was used as an internal standard for quantification purposes.

**Alkylated PAH Groups, Hopanes, and Steranes:** SRM 1941b was used in an interlaboratory comparison exercise in 2011 [12]. Results from 33 laboratories that participated in this exercise were used in the determination of the reference values for alkylated PAH groups, hopanes, and steranes in SRM 1941b. Note that not all laboratories returned data for each analyte. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest. For the alkylated PAHs, the majority of the laboratories (>90 %) used the parent PAH for determination of the response factor for the corresponding alkylated group.

**Total Organic Carbon (TOC):** Two laboratories provided results for TOC using similar procedures. Briefly, subsamples of approximately 200 mg were reacted with 6 mol/L hydrochloric acid and rinsed with deionized water prior to combustion in a gas fusion furnace. The carbon monoxide and carbon dioxide produced were measured and compared to a blank for calculation of the percent TOC. Each laboratory analyzed subsamples from three bottles of SRM 1941b. One of the laboratories also analyzed three subsamples from three bottles of SRM 1941b for carbon, hydrogen, and nitrogen.

Table 1. Certified Mass Fraction Values for PAHs in SRM 1941b

| PAHs   | Mass Fractions <sup>(a)</sup><br>( $\mu\text{g}/\text{kg}$ ) |                 |
|--|--|-----------------|
| Naphthalene <sup>(b,c,d,e,f,g)</sup>                   | 848  | $\pm 95^{(h)}$  |
| Fluorene <sup>(b,c,d,e,f,g)</sup>                      | 85   | $\pm 15^{(h)}$  |
| Phenanthrene <sup>(b,c,d,e,f,g)</sup>                  | 406  | $\pm 44^{(h)}$  |
| Anthracene <sup>(b,c,d,e,f,g)</sup>                    | 184  | $\pm 18^{(h)}$  |
| 3-Methylphenanthrene <sup>(b,c,d)</sup>                | 105  | $\pm 13^{(h)}$  |
| 2-Methylphenanthrene <sup>(b,c,d)</sup>                | 128  | $\pm 14^{(h)}$  |
| 1-Methylphenanthrene <sup>(b,c,d,g)</sup>              | 73.2   | $\pm 5.9^{(h)}$ |
| Fluoranthene <sup>(b,c,d,e,f,g)</sup>                  | 651  | $\pm 50^{(h)}$  |
| Pyrene <sup>(b,c,d,e,f,g)</sup>                        | 581  | $\pm 39^{(h)}$  |
| Benz[ <i>a</i> ]anthracene <sup>(b,c,d,e,f,g)</sup>    | 335  | $\pm 25^{(h)}$  |
| Chrysene <sup>(d,f)</sup>                              | 291  | $\pm 31^{(h)}$  |
| Triphenylene <sup>(d,f)</sup>                          | 108  | $\pm 5^{(i)}$   |
| Benzo[ <i>b</i> ]fluoranthene <sup>(c,e)</sup>         | 453  | $\pm 21^{(h)}$  |
| Benzo[ <i>k</i> ]fluoranthene <sup>(b,c,d,e)</sup>     | 225  | $\pm 18^{(h)}$  |
| Benzo[ <i>e</i> ]pyrene <sup>(b,c,d,g)</sup>           | 325  | $\pm 25^{(h)}$  |
| Benzo[ <i>a</i> ]pyrene <sup>(b,c,d,f,g)</sup>         | 358  | $\pm 17^{(h)}$  |
| Perylene <sup>(b,c,d,f,g)</sup>                        | 397  | $\pm 45^{(h)}$  |
| Benzo[ <i>ghi</i> ]perylene <sup>(b,c,d,f,g)</sup>     | 307  | $\pm 45^{(h)}$  |
| Indeno[1,2,3- <i>cd</i> ]pyrene <sup>(b,c,d,f,g)</sup> | 341  | $\pm 57^{(h)}$  |
| Dibenz[ <i>a,j</i> ]anthracene <sup>(b,c,d,f)</sup>    | 48.9   | $\pm 4.6^{(h)}$ |
| Dibenz[ <i>a,c</i> ]anthracene <sup>(c,f)</sup>        | 36.7   | $\pm 5.2^{(h)}$ |
| Dibenz[ <i>a,h</i> ]anthracene <sup>(c,f)</sup>        | 53   | $\pm 10^{(h)}$  |
| Benzo[ <i>b</i> ]chrysene <sup>(b,c,d,f)</sup>         | 53   | $\pm 12^{(h)}$  |
| Picene <sup>(b,c,d)</sup>                              | 46.6   | $\pm 4.7^{(h)}$ |

<sup>(a)</sup> Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

<sup>(b)</sup> GC/MS (I) on 5 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

<sup>(c)</sup> GC/MS (II) on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

<sup>(d)</sup> GC/MS (III) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

<sup>(e)</sup> LC-FL (total) of total PAH fraction after PFE with DCM.

<sup>(f)</sup> LC-FL (isomer) of isomeric PAH fractions after PFE with DCM.

<sup>(g)</sup> 1999 Interlaboratory Comparison Study [7] with 21 to 29 laboratories submitting data for each PAH.

<sup>(h)</sup> Certified values are weighted means of the results from two to six analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

<sup>(i)</sup> The certified value is an unweighted mean of the results from two analytical methods. The uncertainty listed with the value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the value is metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 2. Certified Mass Fraction Values for PCB Congeners<sup>(a)</sup> in SRM 1941b

| PCB Congeners |   | Mass Fractions <sup>(b)</sup><br>( $\mu\text{g}/\text{kg}$ ) |
|---------------|---|--|
| PCB           | 8 (2,4'-Dichlorobiphenyl) <sup>(c,d,e,f,g)</sup>                      | 1.65 $\pm$ 0.19 <sup>(h)</sup>                               |
| PCB           | 18 (2,2',5-Trichlorobiphenyl) <sup>(c,d,e,f,g)</sup>                  | 2.39 $\pm$ 0.29 <sup>(h)</sup>                               |
| PCB           | 28 (2,4,4'-Trichlorobiphenyl) <sup>(c,d,e,f,g)</sup>                  | 4.52 $\pm$ 0.57 <sup>(h)</sup>                               |
| PCB           | 31 (2,4',5-Trichlorobiphenyl) <sup>(c,e,f)</sup>                      | 3.18 $\pm$ 0.41 <sup>(h)</sup>                               |
| PCB           | 44 (2,2'3,5'-Tetrachlorobiphenyl) <sup>(c,d,e,f,g)</sup>              | 3.85 $\pm$ 0.20 <sup>(i)</sup>                               |
| PCB           | 49 (2,2'4,5'-Tetrachlorobiphenyl) <sup>(c,d,e,f)</sup>                | 4.34 $\pm$ 0.28 <sup>(i)</sup>                               |
| PCB           | 52 (2,2',5,5'-Tetrachlorobiphenyl) <sup>(c,d,e,f,g)</sup>             | 5.24 $\pm$ 0.28 <sup>(i)</sup>                               |
| PCB           | 66 (2,3',4,4'-Tetrachlorobiphenyl) <sup>(c,e,f,g,j)</sup>             | 4.96 $\pm$ 0.53 <sup>(i)</sup>                               |
| PCB           | 87 (2,2',3,4,5'-Pentachlorobiphenyl) <sup>(c,d,f,j)</sup>             | 1.14 $\pm$ 0.16 <sup>(h)</sup>                               |
| PCB           | 95 (2,2',3,5',6-Pentachlorobiphenyl) <sup>(c,e,f,g)</sup>             | 3.93 $\pm$ 0.62 <sup>(i)</sup>                               |
| PCB           | 99 (2,2',4,4',5-Pentachlorobiphenyl) <sup>(c,d,e,f,g)</sup>           | 2.90 $\pm$ 0.36 <sup>(i)</sup>                               |
| PCB           | 101 (2,2',4,5,5'-Pentachlorobiphenyl) <sup>(c,e,f,g,j)</sup>          | 5.11 $\pm$ 0.34 <sup>(i)</sup>                               |
| PCB           | 105 (2,3,3',4,4'-Pentachlorobiphenyl) <sup>(c,d,e,f,g,j)</sup>        | 1.43 $\pm$ 0.10 <sup>(i)</sup>                               |
| PCB           | 110 (2,3,3',4',6-Pentachlorobiphenyl) <sup>(c,e,f,j)</sup>            | 4.62 $\pm$ 0.36 <sup>(i)</sup>                               |
| PCB           | 118 (2,3',4,4',5-Pentachlorobiphenyl) <sup>(c,d,e,f,g,j)</sup>        | 4.23 $\pm$ 0.19 <sup>(i)</sup>                               |
| PCB           | 128 (2,2',3,3',4,4'-Hexachlorobiphenyl) <sup>(c,d,e,f,g,j)</sup>      | 0.696 $\pm$ 0.044 <sup>(i)</sup>                             |
| PCB           | 138 (2,2',3,4,4',5'-Hexachlorobiphenyl) <sup>(c,e,f,j)</sup>          | 3.60 $\pm$ 0.28 <sup>(i)</sup>                               |
| PCB           | 149 (2,2',3,4',5,6-Hexachlorobiphenyl) <sup>(c,d,e,j)</sup>           | 4.35 $\pm$ 0.26 <sup>(h)</sup>                               |
| PCB           | 153 (2,2',4,4',5,5'-Hexachlorobiphenyl) <sup>(c,d,e,f,g,j)</sup>      | 5.47 $\pm$ 0.32 <sup>(i)</sup>                               |
| PCB           | 156 (2,3,3',4,4',5-Hexachlorobiphenyl) <sup>(c,d,e,f,j)</sup>         | 0.507 $\pm$ 0.090 <sup>(h)</sup>                             |
| PCB           | 170 (2,2',3,3',4,4',5-Heptachlorobiphenyl) <sup>(c,d,e,f,g,j)</sup>   | 1.35 $\pm$ 0.09 <sup>(i)</sup>                               |
| PCB           | 180 (2,2',3,4,4',5,5'-Heptachlorobiphenyl) <sup>(c,d,e,f,g,j)</sup>   | 3.24 $\pm$ 0.51 <sup>(i)</sup>                               |
| PCB           | 183 (2,2',3,4,4',5',6-Heptachlorobiphenyl) <sup>(c,d,e,j)</sup>       | 0.979 $\pm$ 0.087 <sup>(h)</sup>                             |
| PCB           | 187 (2,2',3,4',5,5',6-Heptachlorobiphenyl) <sup>(c,d,e,f,g,j)</sup>   | 2.17 $\pm$ 0.22 <sup>(i)</sup>                               |
| PCB           | 194 (2,2',3,3',4,4',5,5'-Octachlorobiphenyl) <sup>(c,d,e,j)</sup>     | 1.04 $\pm$ 0.06 <sup>(h)</sup>                               |
| PCB           | 195 (2,2',3,3',4,4',5,6-Octachlorobiphenyl) <sup>(c,e,g,j)</sup>      | 0.645 $\pm$ 0.060 <sup>(i)</sup>                             |
| PCB           | 201 (2,2',3,3',4,5',6'-Octachlorobiphenyl) <sup>(c,e,j)</sup>         | 0.777 $\pm$ 0.034 <sup>(h)</sup>                             |
| PCB           | 206 (2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl) <sup>(c,e,f,g,j)</sup> | 2.42 $\pm$ 0.19 <sup>(i)</sup>                               |
| PCB           | 209 Decachlorobiphenyl <sup>(c,d,e,f,g,j)</sup>                       | 4.86 $\pm$ 0.45 <sup>(i)</sup>                               |

<sup>(a)</sup> PCB congeners are numbered according to the scheme proposed by Ballschmiter and Zell [9] and later revised by Schulte and Malisch [10] to conform to IUPAC rules, except PCB 201. Under the Ballschmiter and Zell numbering system, the IUPAC PCB 201 is listed as PCB 200.

<sup>(b)</sup> Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

<sup>(c)</sup> GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

<sup>(d)</sup> GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

<sup>(e)</sup> GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

<sup>(f)</sup> GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.

<sup>(g)</sup> 1999 Interlaboratory Comparison Study [7] with 13 to 31 laboratories submitting data for each PCB congener.

<sup>(h)</sup> Certified values are unweighted means of the results from three to five analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

<sup>(i)</sup> Certified values are weighted means of the results from three to six analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

<sup>(j)</sup> GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

Table 3. Certified Mass Fraction Values for Chlorinated Pesticides in SRM 1941b

| Chlorinated Pesticides                         | Mass Fractions <sup>(a)</sup><br>( $\mu\text{g}/\text{kg}$ ) |
|--|--|
| Hexachlorobenzene <sup>(b,c,d,e)</sup>         | 5.83 $\pm$ 0.38 <sup>(f)</sup>                               |
| <i>cis</i> -Chlordane <sup>(b,c,d,e,g)</sup>   | 0.85 $\pm$ 0.11 <sup>(h)</sup>                               |
| <i>trans</i> -Chlordane <sup>(b,c,e)</sup>     | 0.566 $\pm$ 0.093 <sup>(f)</sup>                             |
| <i>cis</i> -Nonachlor <sup>(b,e,g)</sup>       | 0.378 $\pm$ 0.053 <sup>(h)</sup>                             |
| <i>trans</i> -Nonachlor <sup>(b,c,d,e,g)</sup> | 0.438 $\pm$ 0.073 <sup>(f)</sup>                             |
| 4,4'-DDE <sup>(b,d,e,g)</sup>                  | 3.22 $\pm$ 0.28 <sup>(h)</sup>                               |
| 4,4'-DDD <sup>(b,d,e,g)</sup>                  | 4.66 $\pm$ 0.46 <sup>(h)</sup>                               |

<sup>(a)</sup> Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

<sup>(b)</sup> GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

<sup>(c)</sup> GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

<sup>(d)</sup> GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.

<sup>(e)</sup> 1999 Interlaboratory Comparison Study [7] with 13 to 31 laboratories submitting data for each pesticide.

<sup>(f)</sup> Certified values are unweighted means of the results from three to five analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

<sup>(g)</sup> GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

<sup>(h)</sup> Certified values are weighted means of the results from three to five analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the chlorinated pesticides listed and the values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.



Table 4. Reference Mass Fraction Values for PAHs in SRM 1941b

| PAHs  | Mass Fractions <sup>(a)</sup> |   |                     |
|---|-------------------------------|---|---------------------|
|   | (μg/kg)                       |   |                     |
| 1-Methylnaphthalene <sup>(b,c,d,e)</sup>                          | 127                           | ± | 14 <sup>(f)</sup>   |
| 2-Methylnaphthalene <sup>(b,c,d,e)</sup>                          | 276                           | ± | 53 <sup>(f)</sup>   |
| 2,6-Dimethylnaphthalene <sup>(b,c,d,e)</sup>                      | 75.9                          | ± | 4.5 <sup>(f)</sup>  |
| 2,3,5-Trimethylnaphthalene <sup>(b,c,d,e)</sup>                   | 25.5                          | ± | 5.1 <sup>(f)</sup>  |
| Biphenyl <sup>(b,c,d,e)</sup>                                     | 74.0                          | ± | 8.0 <sup>(f)</sup>  |
| Acenaphthylene <sup>(b,c,d,e)</sup>                               | 53.3                          | ± | 6.4 <sup>(f)</sup>  |
| Acenaphthene <sup>(b,c,d,e)</sup>                                 | 38.4                          | ± | 5.2 <sup>(f)</sup>  |
| 9-Methylphenanthrene <sup>(c)</sup>                               | 63.5                          | ± | 2.5 <sup>(g)</sup>  |
| 4-Methylphenanthrene and<br>9-Methylphenanthrene <sup>(b,d)</sup> | 80.1                          | ± | 4.8 <sup>(f)</sup>  |
| 2-Methylanthracene <sup>(c,d)</sup>                               | 36                            | ± | 15 <sup>(f)</sup>   |
| 8-Methylfluoranthene <sup>(b)</sup>                               | 49.5                          | ± | 2.7 <sup>(g)</sup>  |
| 7-Methylfluoranthene <sup>(b)</sup>                               | 45.4                          | ± | 1.5 <sup>(g)</sup>  |
| 1-Methylfluoranthene <sup>(b)</sup>                               | 42.4                          | ± | 2.1 <sup>(g)</sup>  |
| 3-Methylfluoranthene <sup>(b)</sup>                               | 28.8                          | ± | 1.3 <sup>(g)</sup>  |
| 2-Methylpyrene <sup>(b)</sup>                                     | 78.7                          | ± | 4.0 <sup>(g)</sup>  |
| 4-Methylpyrene <sup>(b)</sup>                                     | 66.4                          | ± | 2.6 <sup>(g)</sup>  |
| 1-Methylpyrene <sup>(b)</sup>                                     | 52.5                          | ± | 2.3 <sup>(g)</sup>  |
| Acephenanthrene <sup>(d)</sup>                                    | 30.5                          | ± | 1.9 <sup>(g)</sup>  |
| Benzo[ <i>c</i> ]phenanthrene <sup>(b,c,d)</sup>                  | 58                            | ± | 15 <sup>(f)</sup>   |
| Benzo[ <i>a</i> ]fluoranthene <sup>(b,c,d)</sup>                  | 73                            | ± | 18 <sup>(f)</sup>   |
| Benzo[ <i>j</i> ]fluoranthene <sup>(c)</sup>                      | 217                           | ± | 5 <sup>(g)</sup>    |
| Indeno[1,2,3- <i>cd</i> ]fluoranthene <sup>(d)</sup>              | 9.63                          | ± | 0.34 <sup>(g)</sup> |
| Pentaphene <sup>(d)</sup>   | 25.3                          | ± | 1.0 <sup>(g)</sup>  |

<sup>(a)</sup> Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

<sup>(b)</sup> GC/MS (I) on 5 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

<sup>(c)</sup> GC/MS (II) on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

<sup>(d)</sup> GC/MS (III) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

<sup>(e)</sup> 1999 Interlaboratory Comparison Study [7] with 14 to 26 laboratories submitting data for each PAH.

<sup>(f)</sup> Reference values are weighted means of the results from two to four analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of PAHs listed as determined by the methods indicated. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

<sup>(g)</sup> Reference values are the means of results obtained by NIST using one analytical technique. The expanded uncertainty,  $U$ , is calculated as  $U = k u_c$ , where  $u_c$  is one standard deviation of the analyte mean, and the coverage factor,  $k$ , is determined from the Student's  $t$ -distribution for the associated degrees of freedom (19 for footnote b and 5 for footnotes c and d) and 95 % confidence level for each analyte. The measurand is the total mass fraction of the PAHs listed as determined by the method indicated. The values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 5. Reference Mass Fraction Values for PAHs of Molecular Mass 300 and 302 in SRM 1941b

| PAHs of Molecular Mass 300 and 302   | Mass Fractions <sup>(a,b,c)</sup><br>( $\mu\text{g}/\text{kg}$ ) |
|--|--|
| Coronene   | 72.6 $\pm$ 4.7   |
| Dibenzo[ <i>b,e</i> ]fluoranthene  | 10.3 $\pm$ 0.3   |
| Naphtho[1,2- <i>b</i> ]fluoranthene  | 91.0 $\pm$ 3.1   |
| Naphtho[1,2- <i>k</i> ]fluoranthene and<br>Naphtho[2,3- <i>j</i> ]fluoranthene | 79.8 $\pm$ 2.5   |
| Naphtho[2,3- <i>b</i> ]fluoranthene  | 23.5 $\pm$ 0.3   |
| Dibenzo[ <i>b,k</i> ]fluoranthene  | 95.6 $\pm$ 3.1   |
| Dibenzo[ <i>a,k</i> ]fluoranthene  | 26.6 $\pm$ 0.4   |
| Dibenzo[ <i>j,l</i> ]fluoranthene  | 63.8 $\pm$ 1.8   |
| Dibenzo[ <i>a,l</i> ]pyrene  | 11.1 $\pm$ 1.0   |
| Naphtho[2,3- <i>k</i> ]fluoranthene  | 10.7 $\pm$ 0.6   |
| Naphtho[1,2- <i>a</i> ]pyrene  | 16.7 $\pm$ 1.4   |
| Naphtho[2,3- <i>e</i> ]pyrene  | 33.2 $\pm$ 2.3   |
| Dibenzo[ <i>a,e</i> ]pyrene  | 76.1 $\pm$ 3.6   |
| Naphtho[2,1- <i>a</i> ]pyrene  | 59.2 $\pm$ 1.8   |
| Dibenzo[ <i>e,i</i> ]pyrene  | 35.0 $\pm$ 2.4   |
| Naphtho[2,3- <i>a</i> ]pyrene  | 16.5 $\pm$ 0.6   |
| Benzo[ <i>b</i> ]perylene  | 38.2 $\pm$ 1.2   |
| Dibenzo[ <i>a,i</i> ]pyrene  | 25.5 $\pm$ 1.0   |
| Dibenzo[ <i>a,h</i> ]pyrene  | 6.94 $\pm$ 0.29  |

<sup>(a)</sup> Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

<sup>(b)</sup> Reference values are the means of results obtained by NIST using one analytical technique. The expanded uncertainty,  $U$ , is calculated as  $U = ku_c$ , where  $u_c$  is one standard deviation of the analyte mean, and the coverage factor,  $k$ , is determined from the Student's  $t$ -distribution for two degrees of freedom and 95 % confidence level for each analyte. The measurand is the total mass fraction of the constituent listed as determined by the method indicated. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

<sup>(c)</sup> GC/MS on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM [8].

Table 6. Reference Mass Fraction Values for PCB Congeners<sup>(a)</sup> in SRM 1941b

| PCB Congeners |     |   | Mass Fractions <sup>(b,c)</sup><br>( $\mu\text{g}/\text{kg}$ ) |   |       |
|---------------|-----|---|--|---|-------|
| PCB           | 45  | (2,2',3,6-Tetrachlorobiphenyl) <sup>(d,e)</sup>             | 0.73   | ± | 0.12  |
| PCB           | 56  | (2,3,3',4'-Tetrachlorobiphenyl) <sup>(d,f,g)</sup>          | 1.21   | ± | 0.11  |
| PCB           | 63  | (2,3,4',5-Tetrachlorobiphenyl) <sup>(e,f,g)</sup>           | 0.213  | ± | 0.040 |
| PCB           | 70  | (2,3',4',5-Tetrachlorobiphenyl) <sup>(e,f,g)</sup>          | 4.99   | ± | 0.29  |
| PCB           | 74  | (2,4,4',5-Tetrachlorobiphenyl) <sup>(e,f,g)</sup>           | 2.04   | ± | 0.15  |
| PCB           | 77  | (3,3',4,4'-Tetrachlorobiphenyl) <sup>(h)</sup>              | 0.31   | ± | 0.03  |
| PCB           | 107 | (2,3,3',4',5-Pentachlorobiphenyl) <sup>(d,e,f,g)</sup>      | 0.628  | ± | 0.028 |
| PCB           | 132 | (2,2',3,3',4,6'-Hexachlorobiphenyl) <sup>(d,f,g)</sup>      | 1.28   | ± | 0.27  |
| PCB           | 146 | (2,2',3,4',5,5'-Hexachlorobiphenyl) <sup>(e,f,g)</sup>      | 1.22   | ± | 0.12  |
| PCB           | 158 | (2,3,3',4,4',6-Hexachlorobiphenyl) <sup>(d,e,f,g)</sup>     | 0.65   | ± | 0.15  |
| PCB           | 163 | (2,3,3',4',5,6-Hexachlorobiphenyl) <sup>(e,f,g)</sup>       | 1.28   | ± | 0.06  |
| PCB           | 174 | (2,2',3,3',4,5,6'-Heptachlorobiphenyl) <sup>(d,e,f,g)</sup> | 1.51   | ± | 0.39  |
| PCB           | 193 | (2,3,3',4',5,5',6-Heptachlorobiphenyl) <sup>(d,e,f,g)</sup> | 0.292  | ± | 0.075 |

<sup>(a)</sup> PCB congeners are numbered according to the scheme proposed by Ballschmiter and Zell [9] and later revised by Schulte and Malisch [10] to conform with IUPAC rules, except PCB 107. Under the Ballschmiter and Zell numbering system, the IUPAC PCB 107 is listed as PCB 108.

<sup>(b)</sup> Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

<sup>(c)</sup> For these PCB congeners except PCB 77, the reference values are unweighted means of the results from two to four analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled within-method variance following the ISO/JCGM Guide [14,15]. For PCB 77, the reference value is the mean of results obtained by NIST using one analytical technique. The expanded uncertainty,  $U$ , is calculated as  $U = kuc$ , where  $u_c$  is one standard deviation of the analyte mean, and the coverage factor,  $k$ , is determined from the Student's  $t$ -distribution corresponding to two degrees of freedom and 95 % confidence level for PCB 77. The measurand is the total mass fraction of the PCB Congeners listed as determined by the method or methods indicated. The values listed are metrologically traceable to the SI unit of mass, expressed as microgram per kilogram on a dry-mass basis.

<sup>(d)</sup> GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

<sup>(e)</sup> GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

<sup>(f)</sup> GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

<sup>(g)</sup> GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

<sup>(h)</sup> GC/MS NICI on a 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC-ECD (I) fractionated using a PYE column.

Table 7. Reference Mass Fraction Values for Selected Chlorinated Pesticides in SRM 1941b

| Chlorinated Pesticides    | Mass Fractions <sup>(a,b)</sup><br>( $\mu\text{g}/\text{kg}$ ) |
|---------------------------|--|
| 2,4'-DDE <sup>(c,d)</sup> | 0.38 $\pm$ 0.12  |
| 4,4'-DDT <sup>(e,f)</sup> | 1.12 $\pm$ 0.42  |

<sup>(a)</sup> Mass Fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

<sup>(b)</sup> The reference values are unweighted means of the results from two analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the chlorinated pesticides listed as determined by the methods indicated. The values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

<sup>(c)</sup> GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

<sup>(d)</sup> GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

<sup>(e)</sup> GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.

<sup>(f)</sup> 1999 Interlaboratory Comparison Study [7] with 10 laboratories submitting data for 4,4'-DDT.

Table 8. Reference Mass Fraction Values for Alkylated PAH Groups in SRM 1941b

| Alkylated PAH Group                        | Mass Fraction <sup>(a,b)</sup><br>( $\mu\text{g}/\text{kg}$ ) |
|--|---|
| C2-decalins                                | 18 $\pm$ 5  |
| C4-decalins                                | 41 $\pm$ 4  |
| C2-naphthalenes                            | 187 $\pm$ 53  |
| C3-naphthalenes                            | 158 $\pm$ 42  |
| C1-benzothiophenes                         | 25 $\pm$ 14   |
| C2-benzothiophenes                         | 20 $\pm$ 11   |
| C3-benzothiophenes                         | 22 $\pm$ 13   |
| C4-benzothiophenes                         | 18 $\pm$ 5  |
| C1-fluorenes                               | 57 $\pm$ 18   |
| C2-fluorenes                               | 122 $\pm$ 43  |
| C3-fluorenes                               | 128 $\pm$ 31  |
| C1-phenanthrenes/anthracenes               | 313 $\pm$ 99  |
| C2-phenanthrenes/anthracenes               | 247 $\pm$ 62  |
| C3-phenanthrenes/anthracenes               | 165 $\pm$ 46  |
| C4-phenanthrenes/anthracenes               | 87 $\pm$ 36   |
| C1-dibenzothiophenes                       | 54 $\pm$ 13   |
| C2-dibenzothiophenes                       | 91 $\pm$ 18   |
| C3-dibenzothiophenes                       | 84 $\pm$ 15   |
| C4-dibenzothiophenes                       | 57 $\pm$ 13   |
| C1-fluoranthenes/pyrenes                   | 252 $\pm$ 48  |
| C2-fluoranthenes/pyrenes                   | 205 $\pm$ 38  |
| C3-fluoranthenes/pyrenes                   | 102 $\pm$ 22  |
| C4-fluoranthenes/pyrenes                   | 121 $\pm$ 59  |
| C1-benzanthracenes/chrysenes/triphenylenes | 208 $\pm$ 43  |
| C2-benzanthracenes/chrysenes/triphenylenes | 120 $\pm$ 24  |
| C3-benzanthracenes/chrysenes/triphenylenes | 73 $\pm$ 31   |
| C4-benzanthracenes/chrysenes/triphenylenes | 41 $\pm$ 11   |

<sup>(a)</sup> The reference mass fraction value reported on a dry-mass basis is the median of results using one analytical technique. The expanded uncertainty,  $U$ , is calculated as  $U = k u_c$ , where  $u_c$  is one standard deviation of the median, and the coverage factor,  $k = 2$ . The measurand is the total mass fraction of the alkylated PAH groups listed as determined by the interlaboratory study methods. The values listed are metrologically traceable to the SI unit of mass fraction, expressed as micrograms per kilogram on a dry-mass basis.

<sup>(b)</sup> Data from the interlaboratory study [12].

Table 9. Reference Mass Fraction Values for Hopanes and Steranes in SRM 1941b

| Hopane or Sterane                           | Mass Fraction <sup>(a,b)</sup><br>(µg/kg) |
|---|---|
| 17α(H)-22,29,30-Trisnorhopane               | 54 ± 18                                   |
| 17α(H)-21β(H)-30-Norhopane                  | 137 ± 21                                  |
| 17α(H)-21β(H)-30-Hopane                     | 215 ± 44                                  |
| 17α(H)-21β(H)-22R-Homohopane                | 44 ± 10                                   |
| 17α(H)-21β(H)-22S-Homohopane                | 48 ± 13                                   |
| 5α(H)-14α(H),17α(H)-Cholestane 20R          | 41 ± 11                                   |
| 5α(H)-14β(H),17β(H)-Cholestane 20R          | 27 ± 6                                    |
| 5α(H)-14β(H),17β(H)-24-Methylcholestane 20R | 21 ± 8                                    |
| 5α(H)-14α(H),17α(H)-24-Ethylcholestane 20R  | 19 ± 5                                    |
| 5α(H)-14β(H),17β(H)-24-Ethylcholestane 20R  | 41 ± 9                                    |

- <sup>(a)</sup> The reference mass fraction value reported on a dry-mass basis is the median of results using one analytical technique. The expanded uncertainty,  $U$ , is calculated as  $U = k u_c$ , where  $u_c$  is one standard deviation of the median, and the coverage factor,  $k = 2$ . The measurand is the total mass fraction of the constituent listed as determined by the methods used during the interlaboratory study. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
- <sup>(b)</sup> Data from the interlaboratory study [12].

Table 10. Reference Mass Fraction Value for Total Organic Carbon in SRM 1941b

|                            |                                  |
|----------------------------|----------------------------------|
| Total Organic Carbon (TOC) | 2.99 % ± 0.24 % <sup>(a,b)</sup> |
|----------------------------|----------------------------------|

- <sup>(a)</sup> Mass fraction is reported on a dry-mass basis; material as received contains approximately 2.4 % moisture.
- <sup>(b)</sup> The reference value for total organic carbon is a weighted mean value from routine measurements made by two laboratories [21]. The uncertainty listed is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance. The reporting follows the ISO/JCGM Guides [2]. The measurand is the total mass fraction of TOC listed as determined by the methods indicated. The values listed are metrologically traceable to the SI unit of mass, expressed as a percent on a dry-mass basis.

Table 11. Information Mass Fraction Values for Carbon, Hydrogen, and Nitrogen in SRM 1941b

| Elements | Mass Fractions <sup>(a)</sup><br>(%) |
|----------|--------------------------------------|
| Carbon   | 3.3                                  |
| Hydrogen | 1.2                                  |
| Nitrogen | <0.5                                 |

- <sup>(a)</sup> Mass fraction is reported on a dry-mass basis; material as received contains approximately 2.4 % moisture.

## REFERENCES

- [1] May, W.E.; Parris, R.M.; Beck II, C.M.; Fassett, J.D.; Greenberg, R.R.; Guenther, F.R.; Kramer, G.W.; Wise, S.A.; Gills, T.E.; Colbert, J.C.; Gettings, R.J.; MacDonald, B.R.; *Definition of Terms and Modes Used at NIST for Value-Assignment of Reference Materials for Chemical Measurements*; NIST Special Publication 260-136 (2000); available at <http://www.nist.gov/srm/publications.cfm> (accessed Jan 2015).
- [2] Wise, S.A.; Poster, D.L.; Schantz, M.M.; Kucklick, J.R.; Sander, L.C.; Lopez de Alda, M.; Schubert, P.; Parris, R.M.; Porter, B.J.; *Two New Marine Sediment Standard Reference Materials (SRMs) for the Determination of Organic Contaminants*; *Anal. Bioanal. Chem.*, Vol. 378, pp. 1251–1264 (2004).
- [3] Wise, S.A.; Chesler, S.N.; Hertz, H.S.; Hilpert, L.R.; May, W.E.; *Chemically-Bonded Aminosilane Stationary Phase for the High Performance Liquid Chromatographic Separation of Polynuclear Aromatic Hydrocarbons*; *Anal. Chem.*, Vol. 49, pp. 2306–2310 (1977).
- [4] May, W.E.; Wise, S.A.; *Liquid Chromatographic Determination of Polycyclic Aromatic Hydrocarbons in Air Particulate Extracts*; *Anal. Chem.*, Vol. 56, pp. 225–232 (1984).
- [5] Wise, S.A.; Benner, B.A.; Byrd, G.D.; Chesler, S.N.; Rebbert, R.E.; Schantz, M.M.; *Determination of Polycyclic Aromatic Hydrocarbons in a Coal Tar Standard Reference Material*; *Anal. Chem.*, Vol. 60, pp. 887–894 (1988).
- [6] Wise, S.A.; Deissler, A.; Sander, L.C.; *Liquid Chromatographic Determination of Polycyclic Aromatic Hydrocarbon Isomers of Molecular Weight 278 and 302 in Environmental Standard Reference Materials*; *Polycyclic Aromat. Compd.*, Vol. 3, pp. 169–184 (1993).
- [7] Schantz, M.M.; Parris, R.M.; Wise, S.A.; *NIST/NOAA Intercomparison Exercise Program for Organic Contaminants in the Marine Environment: Description and Results of 1999 Organic Intercomparison Exercises*; NOAA Technical Memorandum NOS NCCOS CCMA 146, Silver Spring, MD (2000).
- [8] Schubert, P.; Schantz, M.M.; Sander, L.C.; Wise, S.A.; *Determination of Polycyclic Aromatic Hydrocarbons with Molecular Mass 300 and 302 in Environmental-Matrix Standard Reference Materials by Gas Chromatography-Mass Spectrometry*; *Anal. Chem.*, Vol. 75, pp. 234–246 (2003).
- [9] Ballschmiter, K.; Zell, M.; *Analysis of Polychlorinated Biphenyls (PCB) by Glass Capillary Gas Chromatography - Composition of Technical Aroclor- and Clophen-PCB Mixtures*; *Fresenius' Z. Anal. Chem.*, Vol. 302, pp. 20–31 (1980).
- [10] Schulte, E.; Malisch, R.; *Calculation of the Real PCB Content in Environmental Samples. I. Investigation of the Composition of Two Technical PCB Mixtures*; *Fresenius' Z. Anal. Chem.*, Vol. 314, pp. 545–551 (1983).
- [11] Brubaker, W.W., Jr.; Schantz, M.M.; Wise, S.A.; *Determination of Non-ortho Polychlorinated Biphenyls in Environmental Standard Reference Materials*; *Fresenius' J. Anal. Chem.*, Vol. 367, pp. 401–406 (2000).
- [12] Schantz, M.M.; Kucklick, J.R.; *NIST Interlaboratory Analytical Comparison Study to Support Deepwater Horizon Natural Resource Damage Assessment: Description and Results for Crude Oil QA10OIL01*; NISTIR 7793 (2011).
- [13] Ruhkin, A.L.; Vangel, M.G.; *Estimation of a Common Mean and Weighted Means Statistics*; *J. Am. Statist. Assoc.*, Vol. 93, pp. 303–308 (1998).
- [14] JCGM 100:2008; *Evaluation of Measurement Data — Guide to the Expression of Uncertainty in Measurement (GUM 1995 with Minor Corrections)*; Joint Committee for Guides in Metrology (2008); available at [http://www.bipm.org/utis/common/documents/jcgm/JCGM\\_100\\_2008\\_E.pdf](http://www.bipm.org/utis/common/documents/jcgm/JCGM_100_2008_E.pdf) (accessed Jan 2015); see also Taylor, B.N.; Kuyatt, C.E.; *Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results*; NIST Technical Note 1297; U.S. Government Printing Office: Washington, DC (1994); available at <http://www.nist.gov/pml/pubs/tn1297/index.cfm> (accessed Jan 2015).
- [15] JCGM 101:2008; *Evaluation of measurement data – Supplement 1 to the “Guide to the expression of uncertainty in measurement” - Propagation of distributions using a Monte Carlo method*; JCGM (2008); available at [http://www.bipm.org/utis/common/documents/jcgm/JCGM\\_101\\_2008\\_E.pdf](http://www.bipm.org/utis/common/documents/jcgm/JCGM_101_2008_E.pdf) (accessed Jan 2015).
- [16] Levenson, M.S.; Banks, D.L.; Eberhardt, K.R.; Gill, L.M.; Guthrie, W.F.; Liu, H.-K.; Vangel, M.G.; Yen, J.H.; Zhang, N.F.; *An Approach to Combining Results from Multiple Methods Motivated by the ISO GUM*; *J. Res. Natl. Inst. Stand. Technol.*, Vol. 105, pp. 571–579 (2000).

**Certificate Revision History:** 16 January 2015 (Corrected IUPAC name for PCB-56 and PCB-107; editorial changes); 10 June 2014 (Units corrected from mg/kg to µg/kg in Tables 8 and 9; editorial changes); 10 April 2012 (Reference value added for alkylated PAH groups, hopanes, and steranes; extension of certification period; editorial changes); 16 August 2004 (Reference values for the butyl tins removed; editorial changes); 15 July 2002 (Original certificate date).

Users of this SRM should ensure that the Certificate of Analysis in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail [srminfo@nist.gov](mailto:srminfo@nist.gov); or via the Internet at <http://www.nist.gov/srm>.

## APPENDIX A

The laboratories listed below performed measurements that contributed to the certification of PAHs, PCBs, and chlorinated pesticides in SRM 1941b Organics in Marine Sediment.

Arthur D. Little, Inc; Cambridge, MA  
Axys Analytical Services; Sidney, BC, Canada  
B & B Laboratories; College Station, TX  
Battelle Ocean Sciences; Duxbury, MA  
Bedford Institute of Oceanography; Dartmouth, NS, Canada  
California Department of Fish and Game; Rancho Cordova, CA  
Central Contra Costa Sanitary District; Martinez, CA  
Chesapeake Biological Laboratory; Solomons, MD  
Centro de Investigaciones Energeticas Medioambientales y Tecnologicas; Madrid, Spain  
City of Los Angeles Environmental Monitoring Division; Playa del Rey, CA  
City of San Jose Environmental Services Department; San Jose, CA  
Columbia Analytical Services; Kelso, WA  
East Bay Municipal Utility District; Oakland, CA  
Florida Department of Environmental Protection; Tallahassee, FL  
Manchester Environmental Laboratory; Port Orchard, WA  
Murray State University; Murray, KY  
Massachusetts Water Resources Authority Central Lab; Winthrop, MA  
National Research Council of Canada; Ottawa, Ontario, Canada  
National Oceanic and Atmospheric Association (NOAA), National Marine Fisheries Service (NMFS), Auke Bay Laboratory; Juneau, AK  
NOAA, National Ocean Service/Center for Coastal Environmental Health and Biomolecular Research; Charleston, SC  
NOAA, NMFS, Sandy Hook Marine Laboratory; Highlands, NJ  
NOAA, NMFS, Northwest Fisheries Science Center; Seattle, WA  
Orange County Sanitation District; Fountain Valley, CA  
Philip Analytical Services; Burlington, Ontario, Canada  
Serv de Hidrografia Naval; Buenos Aires, Argentina  
Skidaway Institute of Technology; Savannah, GA  
Southwest Laboratory of Oklahoma; Broken Arrow, OK  
Severn Trent Knoxville Laboratory; Knoxville, TN  
Texas A&M University, Geochemical and Environmental Research Group; College Station, TX  
Texas Parks and Wildlife Department; San Marcos, TX  
University of California at Los Angeles, Institute of Geophysics and Planetary Physics; Los Angeles, CA  
University of Connecticut, Environmental Research Institute; Storrs, CT  
University of Rhode Island, Graduate School of Oceanography; Narragansett, RI  
US Department of Agriculture, Environmental Chemistry Laboratory; Beltsville, MD  
US Environmental Protection Agency, Atlantic Ecology Division; Narragansett, RI  
US Geological Survey, National Water Quality Laboratory; Denver, CO  
Woods Hole Group Environmental Lab; Raynham, MA  
Wright State University; Dayton, OH

## APPENDIX B

The laboratories listed below performed measurements that contributed to the certification of alkylated PAH groups, hopanes, and steranes in SRM 1941b Organics in Marine Sediment.

Alpha Analytical, Inc.; Mansfield, MA  
Analytical Resources, Inc.; Tukwila, WA  
Axy's Analytical Services; Sydney, BC, Canada  
Battelle Analytical & Environmental Chemistry Laboratory; Duxbury, MA  
Center for Laboratory Sciences; Pasco, WA  
Columbia Analytical Services; Jacksonville, FL  
Columbia Analytical Services; Rochester, NY  
Columbia Analytical Services, Kelso, WA  
Florida Department of Environmental Protection; Tallahassee, FL  
Florida International University; North Miami, FL  
Michigan Department of Natural Resources and Environment; Lansing, MI  
Mississippi State Chemical Laboratory; Mississippi State, MS  
NIST; Charleston, SC  
NIST; Gaithersburg, MD  
NOAA/NCCOS/NOS; Charleston, SC  
NOAA/NMFS/Alaska Fisheries Science Center; Juneau, AK  
NY State Department of Health; Albany, NY  
Pace Analytical Services, Inc. Minneapolis; Minneapolis, MN  
RJ Lee Group, Inc; Monroeville, PA  
TDI/B&B Laboratories, Inc.; College Station, TX  
TestAmerica Laboratories; Mobile, AL  
TestAmerica Laboratories; West Sacramento, CA  
TestAmerica Laboratories; University Park, IL  
TestAmerica Laboratories; Schriever, LA  
TestAmerica Laboratories; Edison, NJ  
TestAmerica Laboratories; Knoxville, TN  
TestAmerica Laboratories; Pittsburgh, PA  
TestAmerica Laboratories; South Burlington, VT  
TestAmerica Laboratories; Tacoma, WA  
US Army Engineer Research and Development Center; Vicksburg, MS  
USGS Columbia Environmental Research Center; Columbia, MO  
University of Iowa, State Hygienic Laboratory; Iowa City, IO  
Washington State Public Health Laboratories; Shoreline, WA





Date of Issue:  
31 March 2014

## SAFETY DATA SHEET

### 1. SUBSTANCE AND SOURCE IDENTIFICATION

#### Product Identifier

**SRM Number:** 1941b  
**SRM Name:** Organics in Marine Sediment  
**Other Means of Identification:** Not applicable.

#### Recommended Use of This Material and Restrictions of Use

This Standard Reference Material (SRM) is marine sediment collected at the mouth of the Baltimore (MD) Harbor. SRM 1941b is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and chlorinated pesticides in marine sediment and similar matrices. All of the constituents for which certified, reference, and information values are provided in SRM 1941b were naturally present in the sediment before processing. A unit of SRM 1941b consists of a bottle containing 50 g of radiation-sterilized, freeze-dried sediment.

#### Company Information

National Institute of Standards and Technology  
Standard Reference Materials Program  
100 Bureau Drive, Stop 2300  
Gaithersburg, Maryland 20899-2300

Telephone: 301-975-2200  
FAX: 301-948-3730  
E-mail: SRMMSDS@nist.gov  
Website: <http://www.nist.gov/srm>

Emergency Telephone ChemTrec:  
1-800-424-9300 (North America)  
+1-703-527-3887 (International)

### 2. HAZARDS IDENTIFICATION

#### Classification

**Physical Hazard:** Not classified.  
**Health Hazard:** Not classified.

#### Label Elements

**Symbol**  
No Symbol/Pictogram

**Signal Word**  
Not applicable.

**Hazard Statement(s):** Not applicable.

**Precautionary Statement(s):** Not applicable.

**Hazards Not Otherwise Classified:** Not applicable.

**Ingredients(s) with Unknown Acute Toxicity:** Not applicable.

### 3. COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

**Substance:** Marine sediment

**Other Designations:** Sediment.

This material is naturally occurring marine sediment from an urban area. The material contains trace amounts of polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and should be handled with care. Components are listed in compliance with OSHA's 29 CFR 1910.1200; for the actual values see the Certificate of Analysis.

| Hazardous Component(s) | CAS Number    | EC Number<br>(EINECS) | Nominal Mass Concentration<br>(%)                 |
|------------------------|---------------|-----------------------|---|
| Marine Sediment        | Not available | Not available         | 23A0179 CLPLIKE (Rev1) - Page 6690 of 6703<br>100 |

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#### 4. FIRST AID MEASURES

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##### Description of First Aid Measures:

**Inhalation:** If adverse effects occur, remove to uncontaminated area. If not breathing, give artificial respiration or oxygen by qualified personnel. Seek immediate medical attention.

**Skin Contact:** Wash skin with soap and water.

**Eye Contact:** Flush eyes with water for at least 15 minutes. If necessary, seek medical attention.

**Ingestion:** If adverse effects occur after ingestion, seek medical treatment.

**Most Important Symptoms/Effects, Acute and Delayed:** May cause irritation.

**Indication of any immediate medical attention and special treatment needed, if necessary:** If any of the above symptoms are present, seek medical attention if needed.

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#### 5. FIRE FIGHTING MEASURES

---

**Fire and Explosion Hazards:** Negligible fire hazard. Avoid generating dust. See Section 9, "Physical and Chemical Properties" for flammability properties.

##### Extinguishing Media:

Suitable: Use extinguishing media appropriate for surrounding fire.

Unsuitable: None listed.

**Specific Hazards Arising from the Chemical:** None listed.

**Special Protective Equipment and Precautions for Fire-Fighters:** Avoid inhalation of material or combustion byproducts. Wear full protective clothing and NIOSH approved self-contained breathing apparatus (SCBA).

**NFPA Ratings** (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health = 1

Fire = 0

Reactivity = 0

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#### 6. ACCIDENTAL RELEASE MEASURES

---

**Personal Precautions, Protective Equipment and Emergency Procedures:** Any accumulated material on surfaces should be removed and properly disposed of. Use suitable protective equipment; see Section 8, "Exposure Controls and Personal Protection".

**Methods and Materials for Containment and Clean up:** Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.

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#### 7. HANDLING AND STORAGE

---

**Safe Handling Precautions:** Minimize dust generation and accumulation on surfaces. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. See Section 8, "Exposure Controls and Personal Protection".

**Storage:** Store and handling in accordance with all current regulations and standards.

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#### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

---

**Exposure Limits:** No occupational exposure limits have been established for marine sediment. This material is a particulate matter and adequate inhalation/respiratory protection should be used to minimize exposure. The exposure limits for Particulates Not Otherwise Regulated (PNOR) are applicable.

OSHA (PEL): 15 mg/m<sup>3</sup> (TWA, total particulates not otherwise regulated)

OSHA (PEL) 5 mg/m<sup>3</sup> (TWA, respirable particulates not otherwise regulated)

NIOSH (REL): 10 mg/m<sup>3</sup> (TWA, total particulates not otherwise regulated, 8 h)

NIOSH (REL): 5 mg/m<sup>3</sup> (TWA, respirable particulates not otherwise regulated)

**Engineering Controls:** Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

**Personal Protection:** In accordance with OSHA 29 CFR 1910.132, subpart I, wear appropriate Personal Protective Equipment (PPE) to minimize exposure to this material.

**Respiratory Protection:** If workplace conditions warrant a respirator, a respiratory protection program that meets OSHA 29CFR 1910.134 must be followed. Refer to NIOSH 42 CFR 84 for applicable certified respirators.

**Eye/Face Protection:** Wear splash resistant safety goggles with a face shield. An eye wash station should be readily available near areas of use.

**Skin and Body Protection:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Chemical-resistant gloves should be worn at all times when handling chemicals.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Descriptive Properties:

|   |                  |
|---|------------------|
| <b>Appearance</b><br>(physical state, color, etc.): | amorphous powder |
| <b>Molecular Formula:</b>                           | not applicable   |
| <b>Molar Mass (g/mol):</b>                          | not applicable   |
| <b>Odor:</b>  | not available    |
| <b>Odor threshold:</b>                              | not available    |
| <b>pH:</b>  | not available    |
| <b>Evaporation rate:</b>                            | not applicable   |
| <b>Melting point/freezing point (°C):</b>           | not available    |
| <b>Specific Gravity (water=1)</b>                   | not available    |
| <b>Vapor Pressure (mmHg):</b>                       | not applicable   |
| <b>Vapor Density (air = 1):</b>                     | not applicable   |
| <b>Viscosity (cP):</b>                              | not applicable   |
| <b>Solubility(ies):</b>                             | not available    |
| <b>Partition coefficient (n-octanol/water):</b>     | not available    |
| <b>Particle Size:</b>                               | <150 µm          |

### Thermal Stability Properties:

|  |               |
|--|---------------|
| <b>Autoignition Temperature (°C):</b>                | not available |
| <b>Thermal Decomposition (°C):</b>                   | not available |
| <b>Initial boiling point and boiling range (°C):</b> | not available |
| <b>Explosive Limits, LEL (Volume %):</b>             | not available |
| <b>Explosive Limits, UEL (Volume %):</b>             | not available |
| <b>Flash Point (°C):</b>                             | not available |
| <b>Flammability (solid, gas):</b>                    | not available |

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## 10. STABILITY AND REACTIVITY

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**Reactivity:** Stable at normal temperatures and pressure.

**Stability:**   X   Stable        Unstable

**Possible Hazardous Reactions:** None listed.

**Conditions to Avoid:** Avoid generating dust.

**Incompatible Materials:** None listed.

**Fire/Explosion Information:** See Section 5, "Fire Fighting Measures".

**Hazardous Decomposition:** Thermal decomposition will produce oxides of carbon.

**Hazardous Polymerization:**        Will Occur   X   Will Not Occur

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## 11. TOXICOLOGICAL INFORMATION

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Route of Exposure:  Inhalation  Skin  Ingestion

**Symptoms Related to the Physical, Chemical and Toxicological Characteristics:** Generated dust may cause irritation if inhaled.

**Potential Health Effects (Acute, Chronic and Delayed):**

**Inhalation:** Generated dust may cause irritation.

**Skin Contact:** May cause mechanical irritation.

**Eye Contact:** May cause mechanical irritation.

**Ingestion:** No data available.

**Numerical Measures of Toxicity:**

**Acute Toxicity:** Not classified; no data available.

**Skin Corrosion/Irritation:** Not classified; no data available.

**Serious Eye damage/ Eye irritation:** Not classified; no data available.

**Respiratory Sensitization:** Not classified; no data available.

**Skin Sensitization:** Not classified; no data available.

**Germ Cell Mutagenicity:** Not classified; no data available.

**Carcinogenicity:** Not classified.

**Listed as a Carcinogen/Potential Carcinogen**  Yes  No  
Marine sediment is not listed by NTP, IARC or OSHA as a carcinogen.

**Reproductive Toxicity:** Not classified; no data available.

**Specific Target Organ Toxicity, Single Exposure:** Not classified; no data available.

**Specific Target Organ Toxicity, Repeated Exposure:** Not classified; no data available.

**Aspiration Hazard:** Not classified; no data available.

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity Data:** No data available.

**Persistence and Degradability:** No data available.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

**Other Adverse effects:** No data available.

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## 13. DISPOSAL CONSIDERATIONS

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**Waste Disposal:** Dispose of waste in accordance with all applicable federal, state, and local regulations.

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## 14. TRANSPORTATION INFORMATION

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**U.S. DOT and IATA:** Not regulated by DOT or IATA.

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## 15. REGULATORY INFORMATION

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**U.S. Regulations:**

CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE HEALTH: No.  
CHRONIC HEALTH: No.  
FIRE: No.  
REACTIVE: No.  
PRESSURE: No.

**State Regulations:**

California Proposition 65: Not listed.

**U.S. TSCA Inventory:** Not listed.

**TSCA 12(b), Export Notification:** Not listed.

**Canadian Regulations:**

WHMIS Information: Not provided for this material.

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**16. OTHER INFORMATION**

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**Issue Date:** 31 March 2014

**Sources:** 29 CFR Occupational Health and Safety Office (OSHA) 1910.1000, *Limits for Air Contaminants*, Table Z-1; available at [http://www.osha.gov/pls/oshaweb/owadisp.show\\_document?p\\_table=STANDARDS&p\\_id=9992](http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=9992) (accessed Mar 2014).

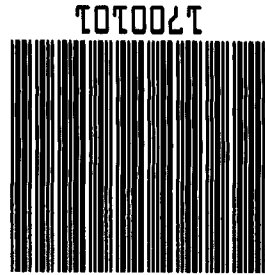
Center for Disease Control (CDC) NIOSH Pocket Guide to Chemical Hazards, *Particulates not otherwise regulated*; available at <http://www.cdc.gov/niosh/npg/npgd0480.html> (accessed Mar 2014).

**Key of Acronyms:**

|        |   |       |  |
|--------|---|-------|--|
| ACGIH  | American Conference of Governmental Industrial Hygienists             | NRC   | Nuclear Regulatory Commission                    |
| ALI    | Annual Limit on Intake  | NTP   | National Toxicology Program                      |
| CAS    | Chemical Abstracts Service  | OSHA  | Occupational Safety and Health Administration    |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act | PEL   | Permissible Exposure Limit                       |
| CFR    | Code of Federal Regulations   | RCRA  | Resource Conservation and Recovery Act           |
| DOT    | Department of Transportation  | REL   | Recommended Exposure Limit                       |
| EC50   | Effective Concentration, 50 %   | RM    | Reference Material                               |
| EINECS | European Inventory of Existing Commercial Chemical Substances         | RQ    | Reportable Quantity                              |
| EPCRA  | Emergency Planning and Community Right-to-Know Act                    | RTECS | Registry of Toxic Effects of Chemical Substances |
| IARC   | International Agency for Research on Cancer                           | SARA  | Superfund Amendments and Reauthorization Act     |
| IATA   | International Air Transportation Agency                               | SCBA  | Self-Contained Breathing Apparatus               |
| IDLH   | Immediately Dangerous to Life and Health                              | SRM   | Standard Reference Material                      |
| LC50   | Lethal Concentration, 50 %  | STEL  | Short Term Exposure Limit                        |
| LD50   | Lethal Dose, 50 %   | TLV   | Threshold Limit Value                            |
| LEL    | Lower Explosive Limit   | TPQ   | Threshold Planning Quantity                      |
| MSDS   | Material Safety Data Sheet  | TSCA  | Toxic Substances Control Act                     |
| NFPA   | National Fire Protection Association                                  | TWA   | Time Weighted Average                            |
| NIOSH  | National Institute for Occupational Safety and Health                 | UEL   | Upper Explosive Limit                            |
| NIST   | National Institute of Standards and Technology                        | WHMIS | Workplace Hazardous Materials Information System |

**Disclaimer:** Physical and chemical data contained in this SDS are provided only for use in assessing the hazardous nature of the material. The SDS was prepared carefully, using current references; however, NIST does not certify the data in the SDS. The certified values for this material are given in the NIST Certificate of Analysis.

Users of this SRM should ensure that the SDS in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730. <http://www.nist.gov/srm>



|             |  |
|-------------|--|
| Weight      |  |
| # of pieces |  |
| Packed by   |  |
| Picked by   |  |

9/21/16 04:04 PM

NOT FOR HUMAN CONSUMPTION,  
LABORATORY USE ONLY.

1 / EACH

Organics in Marine Sediment

Total qty:

1941B

0 EACH

0

1 EACH

1

1 EACH

1

| Order | UOM | Ship | UOM | B/O | UOM | Item | Description |
|-------|-----|------|-----|-----|-----|------|-------------|
|-------|-----|------|-----|-----|-----|------|-------------|

Order discrepancies (other than back ordered items) must be reported to our Customer Relations Department at 301-975-6776 within 5 days of receipt of shipment or this order will be considered complete. NIST SRMs/RMs are generally not returnable - with the exception of defective goods or shipments made in error by NIST. To return a SRM/RM, please call for instructions and a Return SRM/RM Authorization Number before shipment. Returns WILL NOT BE ACCEPTED without prior authorization.

|          |               |              |  |
|----------|---------------|--------------|--|
| Ship via | UFS Ground    | Description  |  |
| Salesmen | MCMIDM2       | Instructions |  |
| Contact  | DAVE MITCHELL | Prof         |  |
|          |               | Truck#       |  |
|          |               | Blanket      |  |
|          |               | Ship from    |  |

DAVE MITCHELL  
ANALYTICAL RESOURCES INC  
4611 S 134TH PLACE  
SUITE 100  
TUKWILA, WA 98168-3240  
1 (206) 695-6205

DAVE MITCHELL  
ANALYTICAL RESOURCES INC  
4611 S 134TH PLACE  
SUITE 100  
TUKWILA, WA 98168-3240  
1 (206) 695-6205

Ship to: 68456



MP Biomedicals, LLC

29525 Fountain Parkway  
Solon, Ohio 44139

Telephone: 440/337-1200  
Toll Free: 800/854-0530

Fax: 440/337-1180  
web: www.mpbio.com

## Certificate of Analysis

**Product Description:** Microcrystalline Cellulose Powder\_  
**Catalog Number:** 191499\_  
**Lot:** Q9483\_

**Formula:** (C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>  
**CAS #:** 9004-34-6  
**Physical Description:** White Powder

**Formula Weight:** N/A  
**Storage:** 15 - 30°C


| Test                     | Specification | Result        |
|--------------------------|---------------|---------------|
| Identity Test            | Passes        | Passes        |
| Purity                   | 97.0 - 102.0% | 97.0 - 102.0% |
| Moisture                 | <5.0%         | 3.4%          |
| Particle Size/Mesh       | Wt %          |               |
| +60 mesh                 | <8%           | <1%           |
| +200 mesh                | >45%          | 55%           |
| pH                       | 5 - 7         | 6.73          |
| Residue on Ignition      | <0.05%        | <0.05%        |
| Water Soluble Substances | <12.0 mg/5 g  | 4.5 mg/5 g    |
| Heavy Metals             | <10 ppm       | <10 ppm       |

**H001822**

Microcrystalline Cellulose Powder (TOC)  
Expires 11/30/2022  
*Prepared By Casey English 2/22/2019*

Identification A & B: Passes  
Bulk Density: 0.29 g/ml  
Bulk Density (graduated cylinder): 0.31 g/ml  
Conductivity: 18 µS/cm  
Starch: Negative  
Ether Soluble Substances: 0.01%  
Total Aerobic microbial Count: 100 cfu/g  
Total Mold and Yeast Count: 20 cfu/g  
Staphylococcus aureus: Absent/1 g  
Pseudomonas aeruginosa: Absent/1 g  
E. coli: Absent/1 g  
Salmonella: Absent/10 g  
Particle size:

- 450 mesh: 77%  
- d10: 37 um  
- d50: 139 um  
- d90: 271 um  
TUP: <9/600 cm<sup>2</sup>  
Degree of brightness: >88%  
Powder flow-angle of repose: <42°  
Recommended Retest Date: 11/30/2022



07/26/2018 - John Huang, PhD  
MP Biomedicals, LLC.  
Quality Control Manager

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## Certificate of Analysis

|  |
|--|
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|--|

|   |   |
|---|---|
| <b>Formula:</b> (C <sub>6</sub> H <sub>10</sub> O <sub>5</sub> ) <sub>n</sub><br><b>CAS #:</b> 9004-34-6<br><b>Physical Description:</b> White Powder | <b>Formula Weight:</b> N/A<br><b>Storage:</b> 15 - 30°C |
|---|---|


| Test                     | Specification | Result        |
|--------------------------|---------------|---------------|
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 Total Mold and Yeast Count: 20 cfu/g  
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 Pseudomonas aeruginosa: Absent/1 g  
 E. coli: Absent/1 g  
 Salmonella: Absent/10 g  
 Particle size:

- 450 mesh: 77%  
- d10: 37 um  
- d50: 139 um  
- d90: 271 um  
TUP: <9/600 cm<sup>2</sup>  
Degree of brightness: >88%  
Powder flow-angle of repose: <42°  
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07/26/2018 - John Huang, PhD  
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|                                |  |                     |                 |
|--------------------------------|--|---------------------|-----------------|
| <b>TOTAL SOLIDS BENCHSHEET</b> |  | Batch:              | BLA0477         |
| Method: PSEP 1986              |  | Date:               | 1/19/2023 11:40 |
| (dry at 103-105 C)             |  | Analyst:            | YL              |
| <b>Instrumentation</b>         |  | Drying Oven:        | 15              |
|                                |  | Analytical Balance: | B146462614      |

|                                |                 |              |  |                                       |             |
|--------------------------------|-----------------|--------------|--|---------------------------------------|-------------|
| <b>Batch drying time</b>       |                 | Oven Temp, C | TS (%) calculated as:                                | <b>Oven Temps, °C</b>                 |             |
| Record times as mm/dd/yy hh:mm |                 |              |  | Final dry wt (g) = (Dry Wt - Tare Wt) | Start Temp: |
| Date/time in oven:             | 1/21/2023 11:13 | 102          | TS = (Final Dry Wt X 100)/(sample & dish -dish tare) | End Temp:                             | 96          |
| Date/time out:                 | 1/23/2023 9:25  | 96           |  |                                       |             |
| Elapsed hrs:                   | 46.2 > 24 hr    |              |  |                                       |             |

| SAMPLE ID  | Dish Tare Wt (g) | Dish with Sample (g) | Dry Wt (g) | Solids Wt (g) | TS (%) | Sample Decanted |
|------------|------------------|----------------------|------------|---------------|--------|-----------------|
| 23A0179-01 | 0.8000           | 11.7700              | 7.2700     | 6.47          | 58.98% | Yes             |
| 23A0179-02 | 0.8000           | 11.6900              | 8.0100     | 7.21          | 66.21% | Yes             |
| 23A0179-03 | 0.8000           | 11.7600              | 7.2200     | 6.42          | 58.58% | Yes             |
| 23A0179-04 | 0.7900           | 11.3400              | 6.4600     | 5.67          | 53.74% | Yes             |
| 23A0179-05 | 0.7800           | 11.6400              | 8.1000     | 7.32          | 67.40% | Yes             |
| 23A0179-06 | 0.7800           | 11.3200              | 6.4700     | 5.69          | 53.98% | Yes             |
| 23A0179-07 | 0.8100           | 11.7100              | 8.9400     | 8.13          | 74.59% | Yes             |
| 23A0179-08 | 0.8000           | 11.7200              | 7.5000     | 6.70          | 61.36% | Yes             |
| 23A0179-09 | 0.8000           | 11.8900              | 6.6800     | 5.88          | 53.02% | Yes             |
| 23A0179-10 | 0.7800           | 11.7000              | 6.1600     | 5.38          | 49.27% | Yes             |
| 23A0179-11 | 0.7800           | 11.9800              | 6.3400     | 5.56          | 49.64% | Yes             |
| 23A0179-12 | 0.7800           | 11.6000              | 6.1200     | 5.34          | 49.35% | Yes             |

|                                |                |  |                     |  |
|--------------------------------|----------------|--|---------------------|--|
| <b>TOTAL SOLIDS BENCHSHEET</b> |                |  | Batch:              | BLA0477  |
| Method: PSEP 1986              |                |  | Date:               | 1/19/2023 11:40                                      |
| (dry at 103-105 C)             |                |  | Analyst:            | YL   |
| <b>Instrumentation</b>         |                |  | Drying Oven:        | PLS  |
|                                |                |  | Analytical Balance: | B 146462614  |
| <b>Batch drying time</b>       |                |  |                     |  |
| Record times as mm/dd/yy hh:mm |                |  | Oven Temp, C        | TS (%) calculated as:                                |
| Date/time in oven:             | 01/21/23 11:13 |  | 9.6 102             | Final dry wt (g) = (Dry Wt - Tare Wt)                |
| Date/time out:                 | 1/23/23 9:25   |  | 9.6                 | TS = (Final Dry Wt X 100)/(sample & dish -dish tare) |
| Elapsed hrs:                   | 0.0            |  |                     |  |
|                                |                |  | Oven Temps, °C      |  |
|                                |                |  | Start Temp:         | 102  |
|                                |                |  | End Temp:           | 96   |

| SAMPLE ID    | Dish Tare Wt (g) | Dish with Sample (g) | Dry Wt (g) | Solids Wt (g) | TS (%) | Sample Decanted   |
|--------------|------------------|----------------------|------------|---------------|--------|-------------------|
| 23A0179-01 A | 0.80             | 11.77                | 7.27       |               |        | No <del>Yes</del> |
| 23A0179-02   | 0.80             | 11.69                | 8.01       |               |        | No <del>Yes</del> |
| 23A0179-03   | 0.80             | 11.76                | 7.22       |               |        | No <del>Yes</del> |
| 23A0179-04   | 0.79             | 11.34                | 6.46       |               |        | No <del>Yes</del> |
| 23A0179-05   | 0.78             | 11.64                | 8.10       |               |        | No <del>Yes</del> |
| 23A0179-06   | 0.78             | 11.32                | 6.47       |               |        | No <del>Yes</del> |
| 23A0179-07   | 0.81             | 11.71                | 8.94       |               |        | No <del>Yes</del> |
| 23A0179-08   | 0.80             | 11.72                | 7.50       |               |        | No <del>Yes</del> |
| 23A0179-09   | 0.80             | 11.89                | 6.68       |               |        | No <del>Yes</del> |
| 23A0179-10   | 0.78             | 11.70                | 6.16       |               |        | No <del>Yes</del> |
| 23A0179-11 V | 0.78             | 11.98                | 6.54       |               |        | No <del>Yes</del> |
| 23A0179-12 A | 0.78             | 11.60                | 6.12       |               |        | No <del>Yes</del> |

TS Screens  
2 copies